

May 07, 2020

**Vista Work Order No. 2000927**

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 23, 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. 2000927**

**Case Narrative**

**Sample Condition on Receipt:**

Fifteen 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 above 1/2 the quantitation limits in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

As requested, a duplicate was performed on sample "PDI-151SC-A-01-02-200421". The RPDs were out of the acceptance criteria for 1,2,3,4,6,7,8-HpCDF and OCDF.

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

**EPA Method 1668C**

One sample was extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The method holding time criteria were met for this sample.

Quality Control

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the

preparation batch. No analytes were detected above the sample quantitation limit in the Method Blank. The OPR recoveries were within the method acceptance criteria.

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

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# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000927-01	PDI-151SC-A-01-02-200421	DUP21-Apr-20 11:06	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-02	PDI-151SC-A-02-03-200421	21-Apr-20 11:06	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-03	PDI-151SC-A-03-04-200421	21-Apr-20 11:06	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-04	PDI-151SC-A-04-05-200421	21-Apr-20 11:06	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-05	PDI-151SC-A-05-06-200421	21-Apr-20 11:06	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-06	PDI-151SC-A-06-07-200421	21-Apr-20 11:06	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-07	PDI-151SC-A-07-08-200421	21-Apr-20 11:06	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-08	PDI-152SC-A-00-01-200421	21-Apr-20 14:36	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-09	PDI-152SC-A-06-07-200421	21-Apr-20 14:36	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-10	PDI-152SC-A-07-08-200421	21-Apr-20 14:36	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-11	PDI-152SC-A-08-09-200421	21-Apr-20 14:36	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-12	PDI-152SC-A-09-10-200421	21-Apr-20 14:36	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-13	PDI-152SC-A-10-11-200421	21-Apr-20 14:36	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-14	PDI-152SC-A-11-12-200421	21-Apr-20 14:36	23-Apr-20 09:12	Amber Glass, 120 mL
2000927-15	PDI-152SC-A-12-13-200421	21-Apr-20 14:36	23-Apr-20 09:12	Amber Glass, 120 mL

## **ANALYTICAL RESULTS**

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0D0264 Date Extracted: 24-Apr-2020 10:07		Lab Sample: B0D0264-BLK1 Date Analyzed: 01-May-20 11:21 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.104			IS 13C-2,3,7,8-TCDD	47.0	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0975			13C-1,2,3,7,8-PeCDD	52.4	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0958			13C-1,2,3,4,7,8-HxCDD	48.6	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0962			13C-1,2,3,6,7,8-HxCDD	50.3	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.111			13C-1,2,3,7,8,9-HxCDD	51.9	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.146			13C-1,2,3,4,6,7,8-HpCDD	55.2	23 - 140		
OCDD	ND	0.155			13C-OCDD	47.2	17 - 157		
2,3,7,8-TCDF	ND	0.0577			13C-2,3,7,8-TCDF	46.2	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0621			13C-1,2,3,7,8-PeCDF	51.2	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0575			13C-2,3,4,7,8-PeCDF	50.9	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0672			13C-1,2,3,4,7,8-HxCDF	52.9	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0675			13C-1,2,3,6,7,8-HxCDF	51.9	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0751			13C-2,3,4,6,7,8-HxCDF	52.4	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.121			13C-1,2,3,7,8,9-HxCDF	49.5	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0911			13C-1,2,3,4,6,7,8-HpCDF	56.7	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.123			13C-1,2,3,4,7,8,9-HpCDF	52.9	26 - 138		
OCDF	ND	0.189			13C-OCDF	42.3	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	61.2	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		0.00		
<b>TOTALS</b>									
Total TCDD	ND	0.104							
Total PeCDD	ND	0.0975							
Total HxCDD	ND	0.111							
Total HpCDD	ND	0.146							
Total TCDF	ND	0.0577							
Total PeCDF	ND	0.0621							
Total HxCDF	ND	0.121							
Total HpCDF	ND	0.123							

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: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0D0264	Lab Sample: B0D0264-BS1					
Sample Size: 10.0 g	Date Extracted: 24-Apr-2020 10:07	Date Analyzed: 01-May-20 09:45	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	18.6	20.0	93.2	67 - 158	IS 13C-2,3,7,8-TCDD	24.6	20 - 175
1,2,3,7,8-PeCDD	94.0	100	94.0	70 - 142	13C-1,2,3,7,8-PeCDD	31.1	21 - 227
1,2,3,4,7,8-HxCDD	98.4	100	98.4	70 - 164	13C-1,2,3,4,7,8-HxCDD	29.6	21 - 193
1,2,3,6,7,8-HxCDD	101	100	101	76 - 134	13C-1,2,3,6,7,8-HxCDD	29.2	25 - 163
1,2,3,7,8,9-HxCDD	97.3	100	97.3	64 - 162	13C-1,2,3,7,8,9-HxCDD	31.5	21 - 193
1,2,3,4,6,7,8-HpCDD	97.2	100	97.2	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	33.0	26 - 166
OCDD	198	200	98.9	78 - 144	13C-OCDD	26.2	13 - 199
2,3,7,8-TCDF	18.9	20.0	94.7	75 - 158	13C-2,3,7,8-TCDF	22.2	22 - 152
1,2,3,7,8-PeCDF	99.3	100	99.3	80 - 134	13C-1,2,3,7,8-PeCDF	30.3	21 - 192
2,3,4,7,8-PeCDF	96.5	100	96.5	68 - 160	13C-2,3,4,7,8-PeCDF	29.7	13 - 328
1,2,3,4,7,8-HxCDF	104	100	104	72 - 134	13C-1,2,3,4,7,8-HxCDF	30.8	19 - 202
1,2,3,6,7,8-HxCDF	99.9	100	99.9	84 - 130	13C-1,2,3,6,7,8-HxCDF	31.6	21 - 159
2,3,4,6,7,8-HxCDF	100	100	100	70 - 156	13C-2,3,4,6,7,8-HxCDF	31.1	22 - 176
1,2,3,7,8,9-HxCDF	98.5	100	98.5	78 - 130	13C-1,2,3,7,8,9-HxCDF	30.2	17 - 205
1,2,3,4,6,7,8-HpCDF	100	100	100	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	34.3	21 - 158
1,2,3,4,7,8,9-HpCDF	98.6	100	98.6	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	31.6	20 - 186
OCDF	209	200	105	63 - 170	13C-OCDF	25.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	34.2	31 - 191

LCL-UCL - Lower control limit - upper control limit



Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44		Lab Sample: B0E0015-BLK1 Date Analyzed: 06-May-20 10:17 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0565			IS 13C-2,3,7,8-TCDD	80.0	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0467			13C-1,2,3,7,8-PeCDD	92.3	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0574			13C-1,2,3,4,7,8-HxCDD	93.1	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0557			13C-1,2,3,6,7,8-HxCDD	97.3	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0732			13C-1,2,3,7,8,9-HxCDD	88.8	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.109			13C-1,2,3,4,6,7,8-HpCDD	79.7	23 - 140		
OCDD	0.219			J	13C-OCDD	55.6	17 - 157		
2,3,7,8-TCDF	ND	0.0345			13C-2,3,7,8-TCDF	73.9	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0456			13C-1,2,3,7,8-PeCDF	89.4	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0404			13C-2,3,4,7,8-PeCDF	93.4	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0354			13C-1,2,3,4,7,8-HxCDF	101	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0326			13C-1,2,3,6,7,8-HxCDF	110	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0404			13C-2,3,4,6,7,8-HxCDF	99.0	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0862			13C-1,2,3,7,8,9-HxCDF	69.2	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0697			13C-1,2,3,4,6,7,8-HpCDF	88.4	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.116			13C-1,2,3,4,7,8,9-HpCDF	67.0	26 - 138		
OCDF	ND	0.152			13C-OCDF	47.1	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	79.7	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		0.000066		
<b>TOTALS</b>									
Total TCDD	ND	0.0565							
Total PeCDD	ND	0.0467							
Total HxCDD	ND	0.0732							
Total HpCDD	ND	0.109							
Total TCDF	ND	0.0345							
Total PeCDF	ND	0.0456							
Total HxCDF	ND	0.0862							
Total HpCDF	ND	0.116							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0E0015	Lab Sample: B0E0015-BS1					
Sample Size: 10.0 g	Date Extracted: 02-May-2020 10:44	Date Analyzed: 06-May-20 08:43	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	16.3	20.0	81.7	67 - 158	IS 13C-2,3,7,8-TCDD	102	20 - 175
1,2,3,7,8-PeCDD	82.4	100	82.4	70 - 142	13C-1,2,3,7,8-PeCDD	106	21 - 227
1,2,3,4,7,8-HxCDD	87.1	100	87.1	70 - 164	13C-1,2,3,4,7,8-HxCDD	102	21 - 193
1,2,3,6,7,8-HxCDD	89.4	100	89.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	101	25 - 163
1,2,3,7,8,9-HxCDD	89.1	100	89.1	64 - 162	13C-1,2,3,7,8,9-HxCDD	101	21 - 193
1,2,3,4,6,7,8-HpCDD	89.6	100	89.6	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	94.0	26 - 166
OCDD	179	200	89.5	78 - 144	13C-OCDD	77.4	13 - 199
2,3,7,8-TCDF	17.6	20.0	87.9	75 - 158	13C-2,3,7,8-TCDF	90.7	22 - 152
1,2,3,7,8-PeCDF	87.4	100	87.4	80 - 134	13C-1,2,3,7,8-PeCDF	103	21 - 192
2,3,4,7,8-PeCDF	85.2	100	85.2	68 - 160	13C-2,3,4,7,8-PeCDF	101	13 - 328
1,2,3,4,7,8-HxCDF	95.8	100	95.8	72 - 134	13C-1,2,3,4,7,8-HxCDF	104	19 - 202
1,2,3,6,7,8-HxCDF	94.7	100	94.7	84 - 130	13C-1,2,3,6,7,8-HxCDF	110	21 - 159
2,3,4,6,7,8-HxCDF	97.4	100	97.4	70 - 156	13C-2,3,4,6,7,8-HxCDF	103	22 - 176
1,2,3,7,8,9-HxCDF	94.9	100	94.9	78 - 130	13C-1,2,3,7,8,9-HxCDF	94.0	17 - 205
1,2,3,4,6,7,8-HpCDF	97.2	100	97.2	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	99.4	21 - 158
1,2,3,4,7,8,9-HpCDF	96.9	100	96.9	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	88.0	20 - 186
OCDF	188	200	94.2	63 - 170	13C-OCDF	74.9	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	97.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-151SC-A-01-02-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-01      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 11.3 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 11:06	% Solids: 88.7	Date Analyzed : 01-May-20 12:54      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0677			IS 13C-2,3,7,8-TCDD	90.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0669			13C-1,2,3,7,8-PeCDD	95.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.145			13C-1,2,3,4,7,8-HxCDD	85.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.144			13C-1,2,3,6,7,8-HxCDD	84.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.171			13C-1,2,3,7,8,9-HxCDD	87.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.766			J	13C-1,2,3,4,6,7,8-HpCDD	88.4	23 - 140	
OCDD	7.58				13C-OCDD	72.1	17 - 157	
2,3,7,8-TCDF	ND	0.0574			13C-2,3,7,8-TCDF	83.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0393			13C-1,2,3,7,8-PeCDF	95.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0374			13C-2,3,4,7,8-PeCDF	97.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0998			13C-1,2,3,4,7,8-HxCDF	90.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0980			13C-1,2,3,6,7,8-HxCDF	92.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.112			13C-2,3,4,6,7,8-HxCDF	89.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.170			13C-1,2,3,7,8,9-HxCDF	85.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.39			J	13C-1,2,3,4,6,7,8-HpCDF	90.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.131			13C-1,2,3,4,7,8,9-HpCDF	86.3	26 - 138	
OCDF	0.633			J	13C-OCDF	67.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	111	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0240

<b>TOTALS</b>								
Total TCDD	ND	0.0677						
Total PeCDD	ND	0.0669						
Total HxCDD	0.560							
Total HpCDD	1.99							
Total TCDF	ND	0.0574						
Total PeCDF	ND		0.256					
Total HxCDF	0.943							
Total HpCDF	2.25							

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

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

Sample ID: Duplicate					EPA Method 1613B			
Source Client ID: PDI-151SC-A-01-02-200421		QC Batch: B0D0264		Lab Sample: B0D0264-DUP1				
Source LabNumber: 2000927-01		Date Extracted: 24-Apr-2020 10:07		Date Analyzed: 01-May-20 12:08 Column: ZB-5MS				
Matrix: Solid								
Sample Size: 11.3 g								
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0854		IS 13C-2,3,7,8-TCDD	87.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0511			13C-1,2,3,7,8-PeCDD	95.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0649			13C-1,2,3,4,7,8-HxCDD	84.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0659			13C-1,2,3,6,7,8-HxCDD	88.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0767			13C-1,2,3,7,8,9-HxCDD	86.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.787			J	13C-1,2,3,4,6,7,8-HpCDD	89.4	23 - 140	
OCDD	9.39				13C-OCDD	74.6	17 - 157	
2,3,7,8-TCDF	ND	0.0473			13C-2,3,7,8-TCDF	86.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0345			13C-1,2,3,7,8-PeCDF	97.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0313			13C-2,3,4,7,8-PeCDF	96.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0495			13C-1,2,3,4,7,8-HxCDF	93.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0493			13C-1,2,3,6,7,8-HxCDF	92.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0540			13C-2,3,4,6,7,8-HxCDF	91.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0799			13C-1,2,3,7,8,9-HxCDF	89.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.27			J	13C-1,2,3,4,6,7,8-HpCDF	93.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0867			13C-1,2,3,4,7,8,9-HpCDF	87.1	26 - 138	
OCDF	0.895			J	13C-OCDF	71.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	110	35 - 197	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>			
					TEQMinWHO2005Dioxin	0.0337		
<b>TOTALS</b>								
Total TCDD	ND		0.0854					
Total PeCDD	ND	0.0511						
Total HxCDD	0.599							
Total HpCDD	2.01							
Total TCDF	ND	0.0473						
Total PeCDF	0.371							
Total HxCDF	1.37							
Total HpCDF	3.73							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight.

weight.

The sample size is reported in wet

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-151SC-A-01-02-200421					Duplicate Lab Sample: B0D0264-DUP1				
Source LabNumber: 2000927-01									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	25	IS 13C-2,3,7,8-TCDD	87.6	90.0	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	95.9	95.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	84.8	85.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDD	88.3	84.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDD	86.5	87.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.787	0.766	2.64	25	13C-1,2,3,4,6,7,8-HpCDD	89.4	88.4	23 - 140	
OCDD	9.39	7.58	21.4	25	13C-OCDD	74.6	72.1	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	86.0	83.7	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	25	13C-1,2,3,7,8-PeCDF	97.3	95.7	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	96.0	97.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDF	93.3	90.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDF	92.4	92.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	25	13C-2,3,4,6,7,8-HxCDF	91.6	89.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDF	89.1	85.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.27	1.39	47.9	25	13C-1,2,3,4,6,7,8-HpCDF	93.6	90.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25	13C-1,2,3,4,7,8,9-HpCDF	87.1	86.3	26 - 138	
OCDF	0.895	0.633	34.2	25	13C-OCDF	71.3	67.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	110	111	35 - 197	

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

**Sample ID: PDI-151SC-A-02-03-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-02      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 12.0 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 11:06	% Solids: 83.2	Date Analyzed : 01-May-20 13:40      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0681			IS 13C-2,3,7,8-TCDD	88.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0624			13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0964			13C-1,2,3,4,7,8-HxCDD	92.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0991			13C-1,2,3,6,7,8-HxCDD	89.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.113			13C-1,2,3,7,8,9-HxCDD	92.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.610			J	13C-1,2,3,4,6,7,8-HpCDD	93.5	23 - 140	
OCDD	6.42				13C-OCDD	77.9	17 - 157	
2,3,7,8-TCDF	ND	0.0480			13C-2,3,7,8-TCDF	85.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0357			13C-1,2,3,7,8-PeCDF	100	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0335			13C-2,3,4,7,8-PeCDF	99.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0529			13C-1,2,3,4,7,8-HxCDF	97.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0519			13C-1,2,3,6,7,8-HxCDF	97.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0579			13C-2,3,4,6,7,8-HxCDF	95.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0883			13C-1,2,3,7,8,9-HxCDF	91.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.597			J	13C-1,2,3,4,6,7,8-HpCDF	98.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.190			13C-1,2,3,4,7,8,9-HpCDF	92.4	26 - 138	
OCDF	0.359			J	13C-OCDF	75.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0141

<b>TOTALS</b>		DL	EMPC	Qualifiers
Total TCDD	ND	0.0681		
Total PeCDD	ND	0.0624		
Total HxCDD	0.583			
Total HpCDD	1.72			
Total TCDF	ND	0.0480		
Total PeCDF	0.123			
Total HxCDF	0.436			
Total HpCDF	1.01			

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

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

**Sample ID: PDI-151SC-A-03-04-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-03      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 11.8 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 11:06	% Solids: 85.7	Date Analyzed : 01-May-20 17:41      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.103		IS 13C-2,3,7,8-TCDD	88.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0505			13C-1,2,3,7,8-PeCDD	94.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0745			13C-1,2,3,4,7,8-HxCDD	85.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0761			13C-1,2,3,6,7,8-HxCDD	87.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0854			13C-1,2,3,7,8,9-HxCDD	88.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.679			J	13C-1,2,3,4,6,7,8-HpCDD	89.2	23 - 140	
OCDD	7.47				13C-OCDD	74.4	17 - 157	
2,3,7,8-TCDF	ND	0.0383			13C-2,3,7,8-TCDF	87.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0658			13C-1,2,3,7,8-PeCDF	94.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0616			13C-2,3,4,7,8-PeCDF	94.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0568			13C-1,2,3,4,7,8-HxCDF	92.6	26 - 152	
1,2,3,6,7,8-HxCDF	0.127			J	13C-1,2,3,6,7,8-HxCDF	94.4	26 - 123	
2,3,4,6,7,8-HxCDF	0.157			J	13C-2,3,4,6,7,8-HxCDF	91.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0984			13C-1,2,3,7,8,9-HxCDF	87.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.12			J	13C-1,2,3,4,6,7,8-HpCDF	94.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0905			13C-1,2,3,4,7,8,9-HpCDF	89.1	26 - 138	
OCDF	0.679			J	13C-OCDF	72.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	112	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0488

<b>TOTALS</b>			
Total TCDD	ND		0.195
Total PeCDD	0.0794		
Total HxCDD	0.843		
Total HpCDD	1.98		
Total TCDF	ND		0.0971
Total PeCDF	1.40		1.55
Total HxCDF	1.69		
Total HpCDF	1.89		

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-151SC-A-04-05-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-04      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 10.7 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 11:06	% Solids: 93.2	Date Analyzed : 01-May-20 18:28      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0782			IS 13C-2,3,7,8-TCDD	58.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0632			13C-1,2,3,7,8-PeCDD	78.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0887			13C-1,2,3,4,7,8-HxCDD	77.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0870			13C-1,2,3,6,7,8-HxCDD	77.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0952			13C-1,2,3,7,8,9-HxCDD	86.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.774			J	13C-1,2,3,4,6,7,8-HpCDD	89.5	23 - 140	
OCDD	8.76				13C-OCDD	75.0	17 - 157	
2,3,7,8-TCDF	ND	0.0468			13C-2,3,7,8-TCDF	53.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0443			13C-1,2,3,7,8-PeCDF	73.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0415			13C-2,3,4,7,8-PeCDF	71.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0636			13C-1,2,3,4,7,8-HxCDF	81.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0607			13C-1,2,3,6,7,8-HxCDF	83.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0617			13C-2,3,4,6,7,8-HxCDF	86.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0982			13C-1,2,3,7,8,9-HxCDF	83.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.388			J	13C-1,2,3,4,6,7,8-HpCDF	92.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0748			13C-1,2,3,4,7,8,9-HpCDF	89.4	26 - 138	
OCDF	0.335			J	13C-OCDF	74.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	75.2	35 - 197	

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

TEQMinWHO2005Dioxin      0.0143

<b>TOTALS</b>								
Total TCDD	ND	0.0782						
Total PeCDD	ND	0.0632						
Total HxCDD	0.378							
Total HpCDD	2.10							
Total TCDF	ND	0.0468						
Total PeCDF	0.119							
Total HxCDF	0.199		0.333					
Total HpCDF	0.672							

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-151SC-A-05-06-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-05      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 10.8 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 11:06	% Solids: 92.5	Date Analyzed: 01-May-20 19:14      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0628			IS 13C-2,3,7,8-TCDD	81.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0579			13C-1,2,3,7,8-PeCDD	90.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0803			13C-1,2,3,4,7,8-HxCDD	83.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0836			13C-1,2,3,6,7,8-HxCDD	86.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0944			13C-1,2,3,7,8,9-HxCDD	90.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.844			J	13C-1,2,3,4,6,7,8-HpCDD	91.6	23 - 140	
OCDD	4.99			J	13C-OCDD	76.6	17 - 157	
2,3,7,8-TCDF	ND	0.0393			13C-2,3,7,8-TCDF	79.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0345			13C-1,2,3,7,8-PeCDF	88.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0319			13C-2,3,4,7,8-PeCDF	87.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0405			13C-1,2,3,4,7,8-HxCDF	93.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0397			13C-1,2,3,6,7,8-HxCDF	94.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0411			13C-2,3,4,6,7,8-HxCDF	91.6	28 - 136	
1,2,3,7,8,9-HxCDF	0.0589			J	13C-1,2,3,7,8,9-HxCDF	87.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.179			J	13C-1,2,3,4,6,7,8-HpCDF	97.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0740			13C-1,2,3,4,7,8,9-HpCDF	90.8	26 - 138	
OCDF	ND	0.0854			13C-OCDF	70.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	90.9	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0176

<b>TOTALS</b>			
Total TCDD	ND		0.0834
Total PeCDD	ND	0.0579	
Total HxCDD	0.668		
Total HpCDD	2.00		
Total TCDF	ND	0.0393	
Total PeCDF	ND		0.0560
Total HxCDF	0.122		0.211
Total HpCDF	0.306		

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-151SC-A-06-07-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-06      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 11.0 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 11:06	% Solids: 90.8	Date Analyzed: 01-May-20 20:00      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0676			IS 13C-2,3,7,8-TCDD	71.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0688			13C-1,2,3,7,8-PeCDD	87.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0562			13C-1,2,3,4,7,8-HxCDD	78.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0538			13C-1,2,3,6,7,8-HxCDD	79.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0639			13C-1,2,3,7,8,9-HxCDD	82.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.407			J	13C-1,2,3,4,6,7,8-HpCDD	84.1	23 - 140	
OCDD	2.93			J	13C-OCDD	71.4	17 - 157	
2,3,7,8-TCDF	ND	0.0359			13C-2,3,7,8-TCDF	64.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0343			13C-1,2,3,7,8-PeCDF	84.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0319			13C-2,3,4,7,8-PeCDF	84.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0311			13C-1,2,3,4,7,8-HxCDF	84.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0293			13C-1,2,3,6,7,8-HxCDF	86.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0320			13C-2,3,4,6,7,8-HxCDF	85.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0491		13C-1,2,3,7,8,9-HxCDF	82.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0400			13C-1,2,3,4,6,7,8-HpCDF	89.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0555			13C-1,2,3,4,7,8,9-HpCDF	87.1	26 - 138	
OCDF	ND	0.0735			13C-OCDF	71.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	80.2	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.00495

<b>TOTALS</b>				
Total TCDD	ND	0.0676		
Total PeCDD	ND	0.0688		
Total HxCDD	0.559			
Total HpCDD	1.22			
Total TCDF	ND	0.0359		
Total PeCDF	ND	0.0343		
Total HxCDF	ND		0.0677	
Total HpCDF	ND	0.0555		

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-151SC-A-07-08-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-07      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 11.9 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 11:06	% Solids: 84.4	Date Analyzed: 01-May-20 20:46      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0585			IS 13C-2,3,7,8-TCDD	72.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0719			13C-1,2,3,7,8-PeCDD	84.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0544			13C-1,2,3,4,7,8-HxCDD	78.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0563			13C-1,2,3,6,7,8-HxCDD	79.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0639			13C-1,2,3,7,8,9-HxCDD	81.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.566			J	13C-1,2,3,4,6,7,8-HpCDD	82.4	23 - 140	
OCDD	4.60			J	13C-OCDD	65.0	17 - 157	
2,3,7,8-TCDF	ND	0.0374			13C-2,3,7,8-TCDF	69.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0321			13C-1,2,3,7,8-PeCDF	82.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0279			13C-2,3,4,7,8-PeCDF	82.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0308			13C-1,2,3,4,7,8-HxCDF	84.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0298			13C-1,2,3,6,7,8-HxCDF	87.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0306			13C-2,3,4,6,7,8-HxCDF	86.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0515			13C-1,2,3,7,8,9-HxCDF	82.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0482			13C-1,2,3,4,6,7,8-HpCDF	90.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0657			13C-1,2,3,4,7,8,9-HpCDF	85.6	26 - 138	
OCDF	ND	0.0770			13C-OCDF	71.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	80.3	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.00704

<b>TOTALS</b>			
Total TCDD	ND		0.0990
Total PeCDD	ND		0.114
Total HxCDD	0.722		
Total HpCDD	1.67		
Total TCDF	ND	0.0374	
Total PeCDF	ND	0.0321	
Total HxCDF	ND	0.0515	
Total HpCDF	ND	0.0657	

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-152SC-A-00-01-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-08      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 11.1 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 14:36	% Solids: 90.7	Date Analyzed : 01-May-20 21:32      Column: ZB-5MS 30-Apr-20 22:31      Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.151		IS 13C-2,3,7,8-TCDD	54.2	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0780		13C-1,2,3,7,8-PeCDD	55.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.199			13C-1,2,3,4,7,8-HxCDD	45.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.662		13C-1,2,3,6,7,8-HxCDD	46.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.423		13C-1,2,3,7,8,9-HxCDD	46.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	46.5				13C-1,2,3,4,6,7,8-HpCDD	40.8	23 - 140	
OCDD	341				13C-OCDD	29.4	17 - 157	
2,3,7,8-TCDF	0.759				13C-2,3,7,8-TCDF	54.5	24 - 169	
1,2,3,7,8-PeCDF	1.21			J	13C-1,2,3,7,8-PeCDF	54.7	24 - 185	
2,3,4,7,8-PeCDF	0.517			J	13C-2,3,4,7,8-PeCDF	56.6	21 - 178	
1,2,3,4,7,8-HxCDF	2.04			J	13C-1,2,3,4,7,8-HxCDF	50.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.499		13C-1,2,3,6,7,8-HxCDF	51.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.247		13C-2,3,4,6,7,8-HxCDF	47.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.170			J	13C-1,2,3,7,8,9-HxCDF	45.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.90				13C-1,2,3,4,6,7,8-HpCDF	46.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.319		13C-1,2,3,4,7,8,9-HpCDF	44.5	26 - 138	
OCDF	11.3				13C-OCDF	28.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	66.0	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      1.09

<b>TOTALS</b>			
Total TCDD	ND		0.151
Total PeCDD	ND		0.996
Total HxCDD	11.8		12.9
Total HpCDD	121		
Total TCDF	2.57		3.74
Total PeCDF	5.09		
Total HxCDF	5.64		6.39
Total HpCDF	10.8		11.1

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-152SC-A-06-07-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-09      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 12.9 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 14:36	% Solids: 77.6	Date Analyzed : 01-May-20 22:19      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	61.0	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0580		13C-1,2,3,7,8-PeCDD	60.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.106			13C-1,2,3,4,7,8-HxCDD	45.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.119		13C-1,2,3,6,7,8-HxCDD	45.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.137			13C-1,2,3,7,8,9-HxCDD	43.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.26				13C-1,2,3,4,6,7,8-HpCDD	36.9	23 - 140	
OCDD	61.8				13C-OCDD	23.0	17 - 157	
2,3,7,8-TCDF	ND	0.0980			13C-2,3,7,8-TCDF	60.1	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0300		13C-1,2,3,7,8-PeCDF	62.1	24 - 185	
2,3,4,7,8-PeCDF	ND		0.137		13C-2,3,4,7,8-PeCDF	61.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.111		13C-1,2,3,4,7,8-HxCDF	50.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0782			13C-1,2,3,6,7,8-HxCDF	50.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0943			13C-2,3,4,6,7,8-HxCDF	44.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.144			13C-1,2,3,7,8,9-HxCDF	45.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.21			J	13C-1,2,3,4,6,7,8-HpCDF	42.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.220			13C-1,2,3,4,7,8,9-HpCDF	41.8	26 - 138	
OCDF	ND		0.712		13C-OCDF	27.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	77.8	35 - 197	

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

TEQMinWHO2005Dioxin      0.0632

<b>TOTALS</b>		
Total TCDD	0.141	0.272
Total PeCDD	0.448	0.575
Total HxCDD	0.805	1.56
Total HpCDD	9.32	
Total TCDF	1.41	2.20
Total PeCDF	1.01	2.56
Total HxCDF	1.74	1.85
Total HpCDF	2.45	

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-152SC-A-07-08-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-10      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 12.3 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 14:36	% Solids: 81.8	Date Analyzed : 01-May-20 23:05      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0564		IS 13C-2,3,7,8-TCDD	82.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0547			13C-1,2,3,7,8-PeCDD	86.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0899			13C-1,2,3,4,7,8-HxCDD	68.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0853			13C-1,2,3,6,7,8-HxCDD	69.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.111			13C-1,2,3,7,8,9-HxCDD	67.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.970			J	13C-1,2,3,4,6,7,8-HpCDD	61.3	23 - 140	
OCDD	9.56				13C-OCDD	44.7	17 - 157	
2,3,7,8-TCDF	ND	0.0415			13C-2,3,7,8-TCDF	80.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0461			13C-1,2,3,7,8-PeCDF	92.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0438			13C-2,3,4,7,8-PeCDF	89.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0579			13C-1,2,3,4,7,8-HxCDF	76.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0568			13C-1,2,3,6,7,8-HxCDF	76.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0685			13C-2,3,4,6,7,8-HxCDF	69.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0953			13C-1,2,3,7,8,9-HxCDF	71.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.189		13C-1,2,3,4,6,7,8-HpCDF	71.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0997			13C-1,2,3,4,7,8,9-HpCDF	68.8	26 - 138	
OCDF	ND		0.239		13C-OCDF	47.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.0	35 - 197	

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

TEQMinWHO2005Dioxin      0.0126

<b>TOTALS</b>								
Total TCDD	0.121		0.177					
Total PeCDD	0.0460		0.0717					
Total HxCDD	0.536							
Total HpCDD	2.51							
Total TCDF	ND	0.0415						
Total PeCDF	0.119							
Total HxCDF	0.0936		0.166					
Total HpCDF	ND		0.189					

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-152SC-A-08-09-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-11      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 12.2 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 14:36	% Solids: 82.6	Date Analyzed : 01-May-20 23:51      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0911			IS 13C-2,3,7,8-TCDD	64.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.109			13C-1,2,3,7,8-PeCDD	72.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.118			13C-1,2,3,4,7,8-HxCDD	65.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.120			13C-1,2,3,6,7,8-HxCDD	73.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.134			13C-1,2,3,7,8,9-HxCDD	79.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.74			J	13C-1,2,3,4,6,7,8-HpCDD	71.8	23 - 140	
OCDD	14.6				13C-OCDD	52.1	17 - 157	
2,3,7,8-TCDF	ND	0.0684			13C-2,3,7,8-TCDF	63.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0538			13C-1,2,3,7,8-PeCDF	71.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0488			13C-2,3,4,7,8-PeCDF	69.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0580			13C-1,2,3,4,7,8-HxCDF	74.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0551			13C-1,2,3,6,7,8-HxCDF	76.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0638			13C-2,3,4,6,7,8-HxCDF	75.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0943			13C-1,2,3,7,8,9-HxCDF	70.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.312			J	13C-1,2,3,4,6,7,8-HpCDF	76.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.127			13C-1,2,3,4,7,8,9-HpCDF	72.6	26 - 138	
OCDF	0.287			J	13C-OCDF	52.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	72.1	35 - 197	

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

<b>TOTALS</b>		
Total TCDD	ND	0.0911
Total PeCDD	ND	0.109
Total HxCDD	1.20	
Total HpCDD	4.64	
Total TCDF	0.0846	
Total PeCDF	0.202	
Total HxCDF	0.245	
Total HpCDF	0.569	

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-152SC-A-09-10-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-12      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 12.9 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 14:36	% Solids: 78.0	Date Analyzed : 02-May-20 00:37      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0823			IS 13C-2,3,7,8-TCDD	59.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0660			13C-1,2,3,7,8-PeCDD	72.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0543			13C-1,2,3,4,7,8-HxCDD	73.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0553			13C-1,2,3,6,7,8-HxCDD	73.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0585			13C-1,2,3,7,8,9-HxCDD	79.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.448			J	13C-1,2,3,4,6,7,8-HpCDD	79.7	23 - 140	
OCDD	5.93				13C-OCDD	62.0	17 - 157	
2,3,7,8-TCDF	ND	0.0500			13C-2,3,7,8-TCDF	55.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0414			13C-1,2,3,7,8-PeCDF	71.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0400			13C-2,3,4,7,8-PeCDF	68.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0419			13C-1,2,3,4,7,8-HxCDF	79.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0404			13C-1,2,3,6,7,8-HxCDF	81.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0443			13C-2,3,4,6,7,8-HxCDF	82.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0693			13C-1,2,3,7,8,9-HxCDF	75.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.142			J	13C-1,2,3,4,6,7,8-HpCDF	88.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0627			13C-1,2,3,4,7,8,9-HpCDF	80.5	26 - 138	
OCDF	ND	0.0825			13C-OCDF	61.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	86.3	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.00768

<b>TOTALS</b>								
Total TCDD	ND	0.0823						
Total PeCDD	ND	0.0660						
Total HxCDD	0.170							
Total HpCDD	1.27							
Total TCDF	ND	0.0500						
Total PeCDF	ND	0.0414						
Total HxCDF	0.0560		0.105					
Total HpCDF	0.279							

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-152SC-A-10-11-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-13      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 12.9 g	QC Batch: B0E0015      Date Extracted: 02-May-2020 10:44
Date Collected: 21-Apr-2020 14:36	% Solids: 77.5	Date Analyzed: 06-May-20 11:51      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0817			IS 13C-2,3,7,8-TCDD	86.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.200			13C-1,2,3,7,8-PeCDD	99.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.167			13C-1,2,3,4,7,8-HxCDD	95.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.172			13C-1,2,3,6,7,8-HxCDD	95.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.205			13C-1,2,3,7,8,9-HxCDD	97.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.624			J	13C-1,2,3,4,6,7,8-HpCDD	87.1	23 - 140	
OCDD	4.45			J, B	13C-OCDD	65.7	17 - 157	
2,3,7,8-TCDF	ND	0.0509			13C-2,3,7,8-TCDF	78.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0850			13C-1,2,3,7,8-PeCDF	97.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0784			13C-2,3,4,7,8-PeCDF	95.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0703			13C-1,2,3,4,7,8-HxCDF	99.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0642			13C-1,2,3,6,7,8-HxCDF	110	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0754			13C-2,3,4,6,7,8-HxCDF	99.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.131			13C-1,2,3,7,8,9-HxCDF	87.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0956			13C-1,2,3,4,6,7,8-HpCDF	93.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.159			13C-1,2,3,4,7,8,9-HpCDF	75.2	26 - 138	
OCDF	ND	0.147			13C-OCDF	58.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.0	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.00758

<b>TOTALS</b>		
Total TCDD	ND	0.0817
Total PeCDD	ND	0.200
Total HxCDD	0.289	
Total HpCDD	1.54	
Total TCDF	ND	0.0509
Total PeCDF	ND	0.0850
Total HxCDF	ND	0.131
Total HpCDF	ND	0.159

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-152SC-A-11-12-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-14      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 12.8 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 14:36	% Solids: 78.1	Date Analyzed : 02-May-20 02:09      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0774			IS 13C-2,3,7,8-TCDD	57.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0573			13C-1,2,3,7,8-PeCDD	67.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0617			13C-1,2,3,4,7,8-HxCDD	65.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0566			13C-1,2,3,6,7,8-HxCDD	71.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0633			13C-1,2,3,7,8,9-HxCDD	76.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.247			J	13C-1,2,3,4,6,7,8-HpCDD	78.6	23 - 140	
OCDD	2.09			J	13C-OCDD	62.2	17 - 157	
2,3,7,8-TCDF	ND	0.0516			13C-2,3,7,8-TCDF	54.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0418			13C-1,2,3,7,8-PeCDF	64.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0398			13C-2,3,4,7,8-PeCDF	62.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0301			13C-1,2,3,4,7,8-HxCDF	71.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0305			13C-1,2,3,6,7,8-HxCDF	76.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0304			13C-2,3,4,6,7,8-HxCDF	78.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0496			13C-1,2,3,7,8,9-HxCDF	70.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0604			13C-1,2,3,4,6,7,8-HpCDF	85.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0903			13C-1,2,3,4,7,8,9-HpCDF	74.2	26 - 138	
OCDF	ND		0.0850		13C-OCDF	60.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	64.4	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.00310

<b>TOTALS</b>			
Total TCDD	ND	0.0774	
Total PeCDD	ND	0.0573	
Total HxCDD	0.0950		
Total HpCDD	0.589		
Total TCDF	ND	0.0516	
Total PeCDF	ND	0.0418	
Total HxCDF	ND	0.0496	
Total HpCDF	ND	0.0903	

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-152SC-A-12-13-200421** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000927-15      Date Received: 23-Apr-2020 9:12
Project: Gasco PDI	Sample Size: 11.1 g	QC Batch: B0D0264      Date Extracted: 24-Apr-2020 10:07
Date Collected: 21-Apr-2020 14:36	% Solids: 89.8	Date Analyzed: 02-May-20 02:56      Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0730			IS 13C-2,3,7,8-TCDD	74.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0513			13C-1,2,3,7,8-PeCDD	86.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0682			13C-1,2,3,4,7,8-HxCDD	76.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0659			13C-1,2,3,6,7,8-HxCDD	78.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0761			13C-1,2,3,7,8,9-HxCDD	81.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.787			J	13C-1,2,3,4,6,7,8-HpCDD	82.2	23 - 140	
OCDD	33.3				13C-OCDD	66.8	17 - 157	
2,3,7,8-TCDF	ND	0.0464			13C-2,3,7,8-TCDF	71.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0391			13C-1,2,3,7,8-PeCDF	84.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0360			13C-2,3,4,7,8-PeCDF	83.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0395			13C-1,2,3,4,7,8-HxCDF	83.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0393			13C-1,2,3,6,7,8-HxCDF	87.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0421			13C-2,3,4,6,7,8-HxCDF	86.4	28 - 136	
1,2,3,7,8,9-HxCDF	0.0762			J	13C-1,2,3,7,8,9-HxCDF	79.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.111		13C-1,2,3,4,6,7,8-HpCDF	89.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0713			13C-1,2,3,4,7,8,9-HpCDF	82.7	26 - 138	
OCDF	0.373			J	13C-OCDF	62.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	79.0	35 - 197	

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

TEQMinWHO2005Dioxin      0.0256

<b>TOTALS</b>								
Total TCDD	ND	0.0730						
Total PeCDD	ND	0.0513						
Total HxCDD	0.204							
Total HpCDD	1.63							
Total TCDF	ND	0.0464						
Total PeCDF	ND	0.0391						
Total HxCDF	0.0905							
Total HpCDF	ND		0.111					

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: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B0D0265	Lab Sample: B0D0265-BLK1
Sample Size: 5.00 g	Date Extracted: 24-Apr-2020 10:12	Date Analyzed: 26-Apr-20 16:47 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	ND	0.112			PCB-44	ND	0.312		
PCB-2	ND	0.126			PCB-45	ND	0.319		
PCB-3	ND	0.119			PCB-46	ND	0.329		
PCB-4/10	ND	0.800			PCB-47	ND	0.266		
PCB-5/8	ND	0.642			PCB-48/75	ND	0.220		
PCB-6	ND	0.636			PCB-50	ND	0.221		
PCB-7/9	ND	0.648			PCB-51	ND	0.238		
PCB-11	ND	0.652			PCB-52/69	ND	0.224		
PCB-12/13	ND	0.742			PCB-53	ND	0.261		
PCB-14	ND	0.722			PCB-54	ND	0.174		
PCB-15	ND	0.695			PCB-55	ND	0.204		
PCB-16/32	ND	0.229			PCB-56/60	ND	0.229		
PCB-17	ND	0.281			PCB-57	ND	0.203		
PCB-18	ND	0.265			PCB-58	ND	0.199		
PCB-19	ND	0.256			PCB-61/70	ND	0.216		
PCB-20/21/33	ND	0.275			PCB-62	ND	0.218		
PCB-22	ND	0.251			PCB-63	ND	0.224		
PCB-23	ND	0.298			PCB-65	ND	0.212		
PCB-24/27	ND	0.203			PCB-66/76	ND	0.201		
PCB-25	ND	0.282			PCB-67	ND	0.212		
PCB-26	ND	0.276			PCB-68	ND	0.204		
PCB-28	ND	0.237			PCB-73	ND	0.186		
PCB-29	ND	0.299			PCB-74	ND	0.204		
PCB-30	ND	0.166			PCB-77	ND	0.219		
PCB-31	ND	0.245			PCB-78	ND	0.228		
PCB-34	ND	0.276			PCB-79	ND	0.203		
PCB-35	ND	0.285			PCB-80	ND	0.199		
PCB-36	ND	0.271			PCB-81	ND	0.239		
PCB-37	ND	0.281			PCB-82	ND	0.442		
PCB-38	ND	0.276			PCB-83	ND	0.290		
PCB-39	ND	0.292			PCB-84/92	ND	0.413		
PCB-40	ND	0.417			PCB-85/116	ND	0.366		
PCB-41/64/71/72	ND	0.209			PCB-86	ND	0.442		
PCB-42/59	ND	0.237			PCB-87/117/125	ND	0.316		
PCB-43/49	ND	0.266			PCB-88/91	ND	0.387		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B0D0265	Lab Sample: B0D0265-BLK1
Sample Size: 5.00 g	Date Extracted: 24-Apr-2020 10:12	Date Analyzed: 26-Apr-20 16:47 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	ND	0.363			PCB-137	ND		0.419	
PCB-90/101	ND	0.373			PCB-138/163/164	ND	0.137		
PCB-93	ND	0.449			PCB-139/149	ND	0.200		
PCB-94	ND	0.419			PCB-140	ND	0.233		
PCB-95/98/102	ND	0.321			PCB-141	ND	0.178		
PCB-96	ND	0.253			PCB-142	ND	0.233		
PCB-97	ND	0.385			PCB-144	ND	0.237		
PCB-99	ND	0.325			PCB-145	ND	0.153		
PCB-100	ND	0.315			PCB-146/165	ND	0.171		
PCB-103	ND	0.330			PCB-147	ND	0.227		
PCB-104	ND	0.250			PCB-148	ND	0.233		
PCB-105	ND	0.332			PCB-150	ND	0.171		
PCB-106/118	ND	0.279			PCB-151	ND	0.248		
PCB-107/109	ND	0.266			PCB-152	ND	0.149		
PCB-108/112	ND	0.348			PCB-153	ND	0.143		
PCB-110	ND	0.293			PCB-154	ND	0.208		
PCB-111/115	ND	0.267			PCB-155	ND	0.177		
PCB-113	ND	0.277			PCB-156	ND	0.138		
PCB-114	ND	0.341			PCB-157	ND	0.152		
PCB-119	ND	0.291			PCB-158/160	ND	0.150		
PCB-120	ND	0.255			PCB-159	ND	0.130		
PCB-121	ND	0.246			PCB-166	ND	0.143		
PCB-122	ND	0.407			PCB-167	ND	0.135		
PCB-123	ND	0.290			PCB-168	ND	0.142		
PCB-124	ND	0.261			PCB-169	ND	0.137		
PCB-126	ND	0.315			PCB-170	ND	0.270		
PCB-127	ND	0.307			PCB-171	ND	0.242		
PCB-128/162	ND	0.168			PCB-172	ND	0.239		
PCB-129	ND	0.213			PCB-173	ND	0.278		
PCB-130	ND	0.216			PCB-174	ND	0.250		
PCB-131/133	ND	0.211			PCB-175	ND	0.262		
PCB-132/161	ND	0.157			PCB-176	ND	0.190		
PCB-134/143	ND	0.219			PCB-177	ND	0.259		
PCB-135	ND	0.214			PCB-178	ND	0.261		
PCB-136	ND	0.178			PCB-179	ND	0.186		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

Sample ID: Method Blank					EPA Method 1668C				
Matrix: Solid		QC Batch: B0D0265			Lab Sample: B0D0265-BLK1				
Sample Size: 5.00 g		Date Extracted: 24-Apr-2020 10:12			Date Analyzed: 26-Apr-20 16:47 Column: ZB-1				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	ND	0.233			Total octaCB	ND		0.814	
PCB-181	ND	0.217			Total nonaCB	ND		0.104	
PCB-182/187	ND	0.223			DecaCB	ND		0.0770	
PCB-183	ND	0.239			Total PCB	ND			
PCB-184	ND	0.175							
PCB-185	ND	0.238							
PCB-186	ND	0.178							
PCB-188	ND	0.183							
PCB-189	ND	0.159							
PCB-190	ND	0.213							
PCB-191	ND	0.200							
PCB-192	ND	0.193							
PCB-193	ND	0.206							
PCB-194	ND		0.814						
PCB-195	ND	0.124							
PCB-196/203	ND	0.216							
PCB-197	ND	0.174							
PCB-198	ND	0.237							
PCB-199	ND	0.243							
PCB-200	ND	0.182							
PCB-201	ND	0.188							
PCB-202	ND	0.163							
PCB-204	ND	0.173							
PCB-205	ND	0.0856							
PCB-206	ND	0.104							
PCB-207	ND	0.0919							
PCB-208	ND	0.0857							
PCB-209	ND	0.0770							
Total monoCB	ND	0.126							
Total diCB	ND	0.800							
Total triCB	ND	0.299							
Total tetraCB	ND	0.417							
Total pentaCB	ND	0.449							
Total hexaCB	ND		0.419						
Total heptaCB	ND	0.278							

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

**Sample ID: Method Blank**

**EPA Method 1668C**

Matrix: Solid	QC Batch: B0D0265	Lab Sample: B0D0265-BLK1
Sample Size: 5.00 g	Date Extracted: 24-Apr-2020 10:12	Date Analyzed: 26-Apr-20 16:47 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	92.0	5 - 145		13C-PCB-157	84.3	10 - 145	
13C-PCB-3	86.3	5 - 145		13C-PCB-159	85.2	10 - 145	
13C-PCB-4	87.9	5 - 145		13C-PCB-167	84.2	10 - 145	
13C-PCB-11	83.1	5 - 145		13C-PCB-169	89.6	10 - 145	
13C-PCB-9	90.7	5 - 145		13C-PCB-170	91.7	10 - 145	
13C-PCB-19	87.8	5 - 145		13C-PCB-180	90.6	10 - 145	
13C-PCB-28	75.5	5 - 145		13C-PCB-188	80.3	10 - 145	
13C-PCB-32	82.0	5 - 145		13C-PCB-189	95.3	10 - 145	
13C-PCB-37	75.8	5 - 145		13C-PCB-194	80.3	10 - 145	
13C-PCB-47	85.1	5 - 145		13C-PCB-202	105	10 - 145	
13C-PCB-52	86.1	5 - 145		13C-PCB-206	89.1	10 - 145	
13C-PCB-54	91.3	5 - 145		13C-PCB-208	84.2	10 - 145	
13C-PCB-70	83.5	5 - 145		13C-PCB-209	108	10 - 145	
13C-PCB-77	83.0	10 - 145		CRS 13C-PCB-79	85.0	10 - 145	
13C-PCB-80	81.9	10 - 145		13C-PCB-178	92.2	10 - 145	
13C-PCB-81	84.3	10 - 145					
13C-PCB-95	81.2	10 - 145					
13C-PCB-97	81.4	10 - 145					
13C-PCB-101	81.2	10 - 145					
13C-PCB-104	85.4	10 - 145					
13C-PCB-105	75.7	10 - 145					
13C-PCB-114	80.0	10 - 145					
13C-PCB-118	85.0	10 - 145					
13C-PCB-123	87.4	10 - 145					
13C-PCB-126	83.4	10 - 145					
13C-PCB-127	75.3	10 - 145					
13C-PCB-138	83.3	10 - 145					
13C-PCB-141	79.4	10 - 145					
13C-PCB-153	73.8	10 - 145					
13C-PCB-155	103	10 - 145					
13C-PCB-156	86.2	10 - 145					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
individual congeners for qualifiers.

See

**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Solid  
Sample Size: 5.00 g

QC Batch: B0D0265  
Date Extracted: 24-Apr-2020 10:12

Lab Sample: B0D0265-BS1  
Date Analyzed: 26-Apr-20 13:46 Column: ZB-1

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	1090	1000	109	60 - 135	IS 13C-PCB-1	86.3	15 - 145
PCB-3	1090	1000	109	60 - 135	IS 13C-PCB-3	82.3	15 - 145
PCB-4/10	2390	2000	120	60 - 135	IS 13C-PCB-4	82.1	15 - 145
PCB-15	1180	1000	118	60 - 135	IS 13C-PCB-11	83.8	15 - 145
PCB-19	1080	1000	108	60 - 135	IS 13C-PCB-9	85.0	15 - 145
PCB-37	1170	1000	117	60 - 135	IS 13C-PCB-19	84.2	15 - 145
PCB-54	1150	1000	115	60 - 135	IS 13C-PCB-28	90.3	15 - 145
PCB-77	1110	1000	111	60 - 135	IS 13C-PCB-32	88.1	15 - 145
PCB-81	1130	1000	113	60 - 135	IS 13C-PCB-37	91.9	15 - 145
PCB-104	1050	1000	105	60 - 135	IS 13C-PCB-47	84.5	15 - 145
PCB-105	1140	1000	114	60 - 135	IS 13C-PCB-52	83.8	15 - 145
PCB-106/118	2110	2000	106	60 - 135	IS 13C-PCB-54	77.7	15 - 145
PCB-114	1160	1000	116	60 - 135	IS 13C-PCB-70	89.2	15 - 145
PCB-123	1050	1000	105	60 - 135	IS 13C-PCB-77	93.4	40 - 145
PCB-126	1130	1000	113	60 - 135	IS 13C-PCB-80	87.3	40 - 145
PCB-155	996	1000	99.6	60 - 135	IS 13C-PCB-81	91.8	40 - 145
PCB-156	1100	1000	110	60 - 135	IS 13C-PCB-95	83.8	40 - 145
PCB-157	1110	1000	111	60 - 135	IS 13C-PCB-97	87.9	40 - 145
PCB-167	1100	1000	110	60 - 135	IS 13C-PCB-101	84.1	40 - 145
PCB-169	1100	1000	110	60 - 135	IS 13C-PCB-104	83.2	40 - 145
PCB-188	1100	1000	110	60 - 135	IS 13C-PCB-105	82.8	40 - 145
PCB-189	1050	1000	105	60 - 135	IS 13C-PCB-114	86.6	40 - 145
PCB-202	1080	1000	108	60 - 135	IS 13C-PCB-118	96.1	40 - 145
PCB-205	1170	1000	117	60 - 135	IS 13C-PCB-123	97.7	40 - 145
PCB-206	1100	1000	110	60 - 135	IS 13C-PCB-126	90.1	40 - 145
PCB-208	1110	1000	111	60 - 135	IS 13C-PCB-127	82.5	40 - 145
PCB-209	1080	1000	108	60 - 135	IS 13C-PCB-138	89.1	40 - 145
					IS 13C-PCB-141	85.1	40 - 145
					IS 13C-PCB-153	81.0	40 - 145
					IS 13C-PCB-155	111	40 - 145
					IS 13C-PCB-156	95.4	40 - 145
					IS 13C-PCB-157	93.6	40 - 145
					IS 13C-PCB-159	93.3	40 - 145
					IS 13C-PCB-167	92.7	40 - 145
					IS 13C-PCB-169	97.0	40 - 145
					IS 13C-PCB-170	101	40 - 145
					IS 13C-PCB-180	99.0	40 - 145
					IS 13C-PCB-188	85.0	40 - 145
					IS 13C-PCB-189	102	40 - 145
					IS 13C-PCB-194	88.4	40 - 145



**Sample ID: OPR**

**EPA Method 1668C**

Matrix: Solid  
Sample Size: 5.00 g

QC Batch: B0D0265  
Date Extracted: 24-Apr-2020 10:12

Lab Sample: B0D0265-BS1  
Date Analyzed: 26-Apr-20 13:46 Column: ZB-1

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	112	40 - 145
					IS 13C-PCB-206	91.1	40 - 145
					IS 13C-PCB-208	90.7	40 - 145
					IS 13C-PCB-209	106	40 - 145
					CRS 13C-PCB-79	93.9	40 - 145
					CRS 13C-PCB-178	98.6	40 - 145

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-152SC-A-00-01-200421**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2000927-08	Date Received:	23-Apr-2020 9:12
Project:	Gasco PDI	Sample Size:	5.57 g	QC Batch:	B0D0265	Date Extracted:	24-Apr-2020 10:12
Date Collected:	21-Apr-2020 14:36	% Solids:	90.7	Date Analyzed :	26-Apr-20 18:48	Column:	ZB-1
					27-Apr-20 02:00	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	ND	2.00		D	PCB-44	53.7			
PCB-2	13.8			D, J	PCB-45	8.15			
PCB-3	12.6			D, J	PCB-46	3.76			J
PCB-4/10	ND	15.0		D	PCB-47	17.0			
PCB-5/8	ND	12.3		D	PCB-48/75	10.4			
PCB-6	ND	12.2		D	PCB-50	ND	0.241		
PCB-7/9	ND	12.4		D	PCB-51	2.07			J
PCB-11	ND	14.6		D	PCB-52/69	76.4			
PCB-12/13	ND	16.6		D	PCB-53	7.34			
PCB-14	ND	16.2		D	PCB-54	ND	0.190		
PCB-15	ND	15.6		D	PCB-55	0.830			J
PCB-16/32	ND	4.74		D	PCB-56/60	36.3			
PCB-17	ND	5.81		D	PCB-57	0.460			J
PCB-18	ND	5.48		D	PCB-58	ND		0.356	
PCB-19	ND	5.54		D	PCB-61/70	81.3			
PCB-20/21/33	20.8				PCB-62	ND	0.236		
PCB-22	9.76				PCB-63	ND		2.91	
PCB-23	ND	0.427			PCB-65	ND	0.229		
PCB-24/27	ND	4.19		D	PCB-66/76	60.0			
PCB-25	3.03			J	PCB-67	1.85			J
PCB-26	4.75			J	PCB-68	0.496			J
PCB-28	29.9				PCB-73	ND	0.193		
PCB-29	ND	0.428			PCB-74	24.6			
PCB-30	ND	3.60		D	PCB-77	5.68			
PCB-31	37.3				PCB-78	ND	0.213		
PCB-34	ND	0.396			PCB-79	1.36			J
PCB-35	ND	0.469			PCB-80	ND	0.176		
PCB-36	ND	0.445			PCB-81	2.02			J
PCB-37	11.4				PCB-82	11.0			
PCB-38	ND	0.453			PCB-83	ND	0.160		
PCB-39	ND	0.480			PCB-84/92	47.5			
PCB-40	7.16				PCB-85/116	15.3			
PCB-41/64/71/72	37.5				PCB-86	0.575			J
PCB-42/59	15.6				PCB-87/117/125	33.1			
PCB-43/49	49.7				PCB-88/91	13.3			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: PDI-152SC-A-00-01-200421**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2000927-08	Date Received:	23-Apr-2020 9:12
Project:	Gasco PDI	Sample Size:	5.57 g	QC Batch:	B0D0265	Date Extracted:	24-Apr-2020 10:12
Date Collected:	21-Apr-2020 14:36	% Solids:	90.7	Date Analyzed:	26-Apr-20 18:48	Column:	ZB-1
					27-Apr-20 02:00	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	1.59			J	PCB-137	4.54			J
PCB-90/101	131				PCB-138/163/164	149			
PCB-93	ND	0.281			PCB-139/149	133			
PCB-94	ND	0.263			PCB-140	0.885			J
PCB-95/98/102	84.9				PCB-141	35.6			
PCB-96	ND	0.210			PCB-142	ND	0.418		
PCB-97	27.1				PCB-144	8.71			
PCB-99	43.1				PCB-145	ND	0.107		
PCB-100	ND	0.261			PCB-146/165	26.3			
PCB-103	ND		1.76		PCB-147	2.36			J
PCB-104	ND	0.207			PCB-148	ND	0.162		
PCB-105	33.0				PCB-150	ND	0.119		
PCB-106/118	81.7				PCB-151	50.3			
PCB-107/109	7.12			J	PCB-152	ND	0.104		
PCB-108/112	4.33			J	PCB-153	162			
PCB-110	102				PCB-154	2.54			J
PCB-111/115	ND		1.22		PCB-155	ND	0.123		
PCB-113	0.248			J	PCB-156	13.5			
PCB-114	2.60			J	PCB-157	ND		1.98	
PCB-119	2.41			J	PCB-158/160	16.1			
PCB-120	0.648			J	PCB-159	2.83			J
PCB-121	ND	0.154			PCB-166	0.589			J
PCB-122	1.50			J	PCB-167	4.59			J
PCB-123	1.38			J	PCB-168	ND	0.256		
PCB-124	3.95			J	PCB-169	ND		0.622	
PCB-126	0.935			J	PCB-170	53.1			
PCB-127	ND		0.371		PCB-171	17.0			
PCB-128/162	17.7				PCB-172	8.93			
PCB-129	5.63				PCB-173	1.47			J
PCB-130	8.56				PCB-174	69.7			
PCB-131/133	4.85			J	PCB-175	2.14			J
PCB-132/161	42.5				PCB-176	8.97			
PCB-134/143	ND		8.43		PCB-177	35.7			
PCB-135	21.9				PCB-178	12.4			
PCB-136	26.2				PCB-179	28.5			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: PDI-152SC-A-00-01-200421**

**EPA Method 1668C**

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2000927-08
Project:	Gasco PDI	Sample Size:	5.57 g	Date Received:	23-Apr-2020 9:12
Date Collected:	21-Apr-2020 14:36	% Solids:	90.7	QC Batch:	B0D0265
				Date Analyzed :	26-Apr-20 18:48 Column: ZB-1
					27-Apr-20 02:00 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	140				Total octaCB	129			
PCB-181	0.999			J	Total nonaCB	24.3			
PCB-182/187	69.8				DecaCB	16.9			
PCB-183	35.9				Total PCB	2720			
PCB-184	ND	0.141							
PCB-185	8.22								
PCB-186	ND	0.143							
PCB-188	ND	0.148							
PCB-189	2.07			J					
PCB-190	11.2								
PCB-191	2.84			J					
PCB-192	ND	0.184							
PCB-193	6.82								
PCB-194	27.7								
PCB-195	13.7								
PCB-196/203	33.7								
PCB-197	1.31			J					
PCB-198	1.74			J					
PCB-199	33.3								
PCB-200	4.60			J					
PCB-201	4.67			J					
PCB-202	6.46								
PCB-204	ND	0.0982							
PCB-205	1.69			J					
PCB-206	16.5								
PCB-207	2.11			J					
PCB-208	5.70								
PCB-209	16.9								
Total monoCB	26.4								
Total diCB	ND	15.0							
Total triCB	117								
Total tetraCB	503		507						
Total pentaCB	650		654						
Total hexaCB	740		751						
Total heptaCB	516								

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

**Sample ID: PDI-152SC-A-00-01-200421**

**EPA Method 1668C**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2000927-08	Date Received:	23-Apr-2020 9:12
Project:	Gasco PDI	Sample Size:	5.57 g	QC Batch:	B0D0265	Date Extracted:	24-Apr-2020 10:12
Date Collected:	21-Apr-2020 14:36	% Solids:	90.7	Date Analyzed :	26-Apr-20 18:48	Column:	ZB-1
					27-Apr-20 02:00	Column:	ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	110	5 -145	D	13C-PCB-170	93.5	10 -145	
13C-PCB-3	105	5 -145	D	13C-PCB-180	97.4	10 -145	
13C-PCB-4	105	5 -145	D	13C-PCB-188	102	10 -145	
13C-PCB-11	111	5 -145	D	13C-PCB-189	79.6	10 -145	
13C-PCB-9	112	5 -145	D	13C-PCB-194	99.2	10 -145	
13C-PCB-19	114	5 -145	D	13C-PCB-202	119	10 -145	
13C-PCB-28	93.5	5 -145		13C-PCB-206	98.7	10 -145	
13C-PCB-32	110	5 -145	D	13C-PCB-208	118	10 -145	
13C-PCB-37	95.0	5 -145		13C-PCB-209	123	10 -145	
13C-PCB-47	93.9	5 -145		CRS 13C-PCB-79	101	10 -145	
13C-PCB-52	90.8	5 -145		13C-PCB-178	108	10 -145	
13C-PCB-54	89.3	5 -145					
13C-PCB-70	88.7	5 -145					
13C-PCB-77	92.8	10 -145					
13C-PCB-80	96.4	10 -145					
13C-PCB-81	94.9	10 -145					
13C-PCB-95	96.2	10 -145					
13C-PCB-97	102	10 -145					
13C-PCB-101	94.2	10 -145					
13C-PCB-104	87.9	10 -145					
13C-PCB-105	89.2	10 -145					
13C-PCB-114	100	10 -145					
13C-PCB-118	93.3	10 -145					
13C-PCB-123	97.1	10 -145					
13C-PCB-126	89.3	10 -145					
13C-PCB-127	85.2	10 -145					
13C-PCB-138	96.7	10 -145					
13C-PCB-141	96.0	10 -145					
13C-PCB-153	90.7	10 -145					
13C-PCB-155	116	10 -145					
13C-PCB-156	91.5	10 -145					
13C-PCB-157	90.2	10 -145					
13C-PCB-159	96.6	10 -145					
13C-PCB-167	93.1	10 -145					
13C-PCB-169	77.1	10 -145					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

The results are reported in dry weight. The sample size is reported in wet weight.  
See individual congeners for qualifiers.

## 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**

2000927 3.8°C

**COC ID:**

VISTA-20200422-084419

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

**Project:** Gasco PDI

**Sample Custodian:**

CO

1605 Cornwall Avenue, Bellingham, WA 98225

**Client:** NW Natural

**Lab:**

VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-151SC-A-01-02-200421	N	SE	04/21/2020	11:06	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 307-wk	4°C 4°C
002	PDI-151SC-A-02-03-200421	N	SE	04/21/2020	11:06	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 307-wk	4°C 4°C
003	PDI-151SC-A-03-04-200421	N	SE	04/21/2020	11:06	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C
004	PDI-151SC-A-04-05-200421	N	SE	04/21/2020	11:06	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C
005	PDI-151SC-A-05-06-200421	N	SE	04/21/2020	11:06	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C
006	PDI-151SC-A-06-07-200421	N	SE	04/21/2020	11:06	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C
007	PDI-151SC-A-07-08-200421	N	SE	04/21/2020	11:06	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: Lucas Henry	Print Name: William R. Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 4/22/2020/0925	Date/Time: 4-23-20 09:12	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

2000927

**COC ID:** VISTA-20200422-084419  
**Sample Custodian:** CO  
**Lab:** VISTA

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
008	PDI-152SC-A-00-01-200421	N	SE	04/21/2020	14:36	1	<input type="checkbox"/>	Dioxin/Furans PCB Congeners Total solids (VISTA)	E1613B E1668A SM2540G	301-wk 301-wk 301-wk	4°C 4°C 4°C
009	PDI-152SC-A-06-07-200421	N	SE	04/21/2020	14:36	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C
010	PDI-152SC-A-07-08-200421	N	SE	04/21/2020	14:36	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C
011	PDI-152SC-A-08-09-200421	N	SE	04/21/2020	14:36	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C
012	PDI-152SC-A-09-10-200421	N	SE	04/21/2020	14:36	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C
013	PDI-152SC-A-10-11-200421	N	SE	04/21/2020	14:36	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	301-wk 301-wk	4°C 4°C
014	PDI-152SC-A-11-12-200421	N	SE	04/21/2020	14:36	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	301-wk	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: Lucas Henry	Print Name: William R Knight	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 4/22/2020/0925	Date/Time: 4-23-20 09:12	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

2000927

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

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

**COC ID:** VISTA-20200422-084419  
**Sample Custodian:** CO  
**Lab:** VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
014	PDI-152SC-A-11-12-200421	N	SE	04/21/2020	14:36	1	<input type="checkbox"/>	Total solids (VISTA)	SM2540G	30 I-wk	4°C
015	PDI-152SC-A-12-13-200421	N	SE	04/21/2020	14:36	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30 I-wk	4°C
								Total solids (VISTA)	SM2540G	30 I-wk	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: Lucas Henry	Print Name: William R. Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company: VAL	Company:	Company:	Company:	Company:
Date/Time: 4/22/2020/0925	Date/Time: 4-23-20 09:12	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

# Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2000927 TAT 7

Samples Arrival:	Date/Time		Initials:		Location: <u>WR-2</u>		
	<u>4/23/20 09:12</u>		<u>WRW</u>		Shelf/Rack: <u>NA</u>		
Delivered By:	<input checked="" type="radio"/> FedEx	<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
Preservation:	<input checked="" type="radio"/> Ice		<input type="radio"/> Blue Ice		<input type="radio"/> Dry Ice		<input type="radio"/> None
Temp °C:	<u>3.8</u> (uncorrected)	Probe used: Y / <input checked="" type="radio"/> N			Thermometer ID: <u>TR-3</u>		
Temp °C:	<u>3.8</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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trk # <u>7702 9923 1685</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/>	<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"/>
Logged In:	Date/Time		Initials:
	<u>4/23/20 1238</u>		<u>KS</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>G-6</u>
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

# CoC/Label Reconciliation Report WO# 2000927

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000927-01	A PDI-151SC-A-01-02-200421	<input checked="" type="checkbox"/>	21-Apr-20 11:06	Amber Glass, 120 mL	Solid	DUP
2000927-02	A PDI-151SC-A-02-03-200421	<input checked="" type="checkbox"/>	21-Apr-20 11:06	Amber Glass, 120 mL	Solid	
2000927-03	A PDI-151SC-A-03-04-200421	<input checked="" type="checkbox"/>	21-Apr-20 11:06	Amber Glass, 120 mL	Solid	
2000927-04	A PDI-151SC-A-04-05-200421	<input checked="" type="checkbox"/>	21-Apr-20 11:06	Amber Glass, 120 mL	Solid	
2000927-05	A PDI-151SC-A-05-06-200421	<input checked="" type="checkbox"/>	21-Apr-20 11:06	Amber Glass, 120 mL	Solid	
2000927-06	A PDI-151SC-A-06-07-200421	<input checked="" type="checkbox"/>	21-Apr-20 11:06	Amber Glass, 120 mL	Solid	
2000927-07	A PDI-151SC-A-07-08-200421	<input checked="" type="checkbox"/>	21-Apr-20 11:06	Amber Glass, 120 mL	Solid	
2000927-08	A PDI-152SC-A-00-01-200421	<input checked="" type="checkbox"/>	21-Apr-20 14:36	Amber Glass, 120 mL	Solid	
2000927-09	A PDI-152SC-A-06-07-200421	<input checked="" type="checkbox"/>	21-Apr-20 14:36	Amber Glass, 120 mL	Solid	
2000927-10	A PDI-152SC-A-07-08-200421	<input checked="" type="checkbox"/>	21-Apr-20 14:36	Amber Glass, 120 mL	Solid	
2000927-11	A PDI-152SC-A-08-09-200421	<input checked="" type="checkbox"/>	21-Apr-20 14:36	Amber Glass, 120 mL	Solid	
2000927-12	A PDI-152SC-A-09-10-200421	<input checked="" type="checkbox"/>	21-Apr-20 14:36	Amber Glass, 120 mL	Solid	
2000927-13	A PDI-152SC-A-10-11-200421	<input checked="" type="checkbox"/>	21-Apr-20 14:36	Amber Glass, 120 mL	Solid	
2000927-14	A PDI-152SC-A-11-12-200421	<input checked="" type="checkbox"/>	21-Apr-20 14:36	Amber Glass, 120 mL	Solid	
2000927-15	A PDI-152SC-A-12-13-200421	<input checked="" type="checkbox"/>	21-Apr-20 14:36	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: WWS 04/23/20

## **EXTRACTION INFORMATION**



Process Sheet

Workorder: 2000927

Prep Expiration: 2021-04-21  
Client: Anchor QEA, LLC

Workorder Due: 30-Apr-20 00:00

TAT: 7

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

Prep Batch: B0D0204

Prep Data Entered: AO 04/27/20  
Date and Initials

Initial Sequence: S0D0103

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000927-01	<input checked="" type="checkbox"/>	PDI-151SC-A-01-02-200421	23-Apr-20 09:12	WR-2 G-6	DUP
2000927-02	<input checked="" type="checkbox"/>	PDI-151SC-A-02-03-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-03	<input checked="" type="checkbox"/>	PDI-151SC-A-03-04-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-04	<input checked="" type="checkbox"/>	PDI-151SC-A-04-05-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-05	<input checked="" type="checkbox"/>	PDI-151SC-A-05-06-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-06	<input checked="" type="checkbox"/>	PDI-151SC-A-06-07-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-07	<input checked="" type="checkbox"/>	PDI-151SC-A-07-08-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-08	<input checked="" type="checkbox"/>	PDI-152SC-A-00-01-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-09	<input checked="" type="checkbox"/>	PDI-152SC-A-06-07-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-10	<input checked="" type="checkbox"/>	PDI-152SC-A-07-08-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-11	<input checked="" type="checkbox"/>	PDI-152SC-A-08-09-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-12	<input checked="" type="checkbox"/>	PDI-152SC-A-09-10-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-13	<input checked="" type="checkbox"/>	PDI-152SC-A-10-11-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-14	<input checked="" type="checkbox"/>	PDI-152SC-A-11-12-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-15	<input checked="" type="checkbox"/>	PDI-152SC-A-12-13-200421	23-Apr-20 09:12	WR-2 G-6	

WO Comments: Pest - 1g extraction (dry weight). DDX, Aldrin, 5-Chlordane, Dieldrin, Lindane  
 Dioxin - 10g (dry weight) RR 04/24/20  
 PCB - 5g extraction (dry weight) DF 04/24/20

Pre-Prep Check Out: RR 04/23/20  
Pre-Prep Check In: RR 04/23/20

Prep Check Out: RR 04/24/20  
Prep Check In: RR 04/24/20

Prep Reconciled Initials/Date: DF 04/27/20  
Spike Reconciled Initials/Date: RR 04/23/20

VialBoxID: Ugly



PREPARATION BENCH SHEET

Matrix: Solid

B0D0264

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 24-Apr-20 10:07

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0D0264-BLK1 (A)	NA	(10.00)	DF RR 04/24/20	TL DF 04/25/20	TL 04/25/20	AO 04/26/20	AO 04/26/20	AO 04/26/20	AO AZ 04/26/20
<input type="checkbox"/>	B0D0264-BS1 (A)	NA	(10.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	B0D0264-DUP1 2000927-01	11.28	11.31	↓	↓	NA	↓	↓	↓	↓
<input type="checkbox"/>	2000927-01	11.28	11.28	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-02	12.02	12.04	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-03	11.66	11.76	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-04	10.73	10.73	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-05	10.81	10.81	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-06	11.01	11.02	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-07	11.85	11.92	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-08 (A)	11.03	11.05	↓	↓	TL 04/29/20	yellow ↓	↓	↓	↓
<input type="checkbox"/>	2000927-09 (A)	12.89	12.93	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-10	12.22	12.29	↓	↓	NA	↓	↓	↓	↓
<input type="checkbox"/>	2000927-11	12.10	12.22	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-12	12.81	12.90	↓	↓	↓	↓	↓	↓	↓

IS Name <u>V4</u>	NS Name <u>V0</u>	CRS Name <u>V2</u>	RS Name <u>V2</u>	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: <u>RR 04/24/20</u>
PCDD/F <u>142361, 10ml</u>	PCDD/F <u>18F1913, 10ml</u>	PCDD/F <u>19I160Z, 10ml</u>	PCDD/F <u>19I160B, 10ml</u>	Start Date/Time <u>04/24/20 1422</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 04/24/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>04/25/20 0652</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14 20ml</u>		

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

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

(A) Columns had mostly water transferred on AO 04/26/20

PREPARATION BENCH SHEET

Matrix: Solid

B0D0264

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 24-Apr-20 10:07

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	2000927-13	12.90	12.94	DF RR 04/24/20	TL DF 04/25/20	NA	AO 04/26/20	AO 04/26/20	AO 04/26/20	AO 04/26/20
<input type="checkbox"/>	2000927-14	12.80	12.81	J	J	J	J	J	J	J
<input type="checkbox"/>	2000927-15	11.14	11.14	J	J	J	J	J	J	J

IS Name <u>V4</u>	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>RR 04/24/20</u>
PCDD/F <u>19.230L, 10mL</u>	PCDD/F	PCDD/F	PCDD/F	Start Date/Time <u>04/24/20</u>	SOLV: <u>Toluene</u>	Chemist/Date: <u>RR 04/24/20</u>
PCB	PCB	PCB	PCB		Other <u>NA</u>	Check In: <u>RR 04/24/20</u>
PAH	PAH	PAH	PAH	Stop Date/Time	Final Volume(s) <u>C14</u> <u>20mL</u>	Balance ID: <u>HRMS-8</u>

Comments:

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





Batch: B0D0264

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000927-01	11.28	88.68361	10.0035	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-02	12.04	83.20269	10.0176	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-03	11.76	85.74739	10.0839	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-04	10.73	93.1746	9.9976	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-05	10.81	92.49531	9.9987	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-06	11.02	90.84669	10.0113	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-07	11.92	84.375	10.0575	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-08	11.05	90.6822	10.0204	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-09	12.93	77.5974	10.0333	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-10	12.29	81.82795	10.0567	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-11	12.22	82.6484	10.0996	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-12	12.9	78.04878	10.0683	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-13	12.94	77.49469	10.0278	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-14	12.81	78.125	10.0078	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
2000927-15	11.14	89.80582	10.0044	20	24-Apr-20 10:07	RR			Sediment	1613 Full List
B0D0264-BLK1	10			20	24-Apr-20 10:07	RR				QC
B0D0264-BS1	10			20	24-Apr-20 10:07	RR	18F1913	10		QC
B0D0264-DUP1	11.31	88.68361	10.030163	20	24-Apr-20 10:07	RR				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 04/27/20



Process Sheet  
Workorder: 2000927

Prep Expiration: 2021-04-21  
Client: Anchor QEA, LLC

Workorder Due: 30-Apr-20 00:00

TAT: 7

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

Prep Batch: BOE0015

Prep Data Entered: AO 05/05/20  
Date and Initials

Initial Sequence: SOE0015

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000927-01	<input type="checkbox"/>	PDI-151SC-A-01-02-200421	23-Apr-20 09:12	WR-2 G-6	DUP
2000927-02	<input type="checkbox"/>	PDI-151SC-A-02-03-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-03	<input type="checkbox"/>	PDI-151SC-A-03-04-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-04	<input type="checkbox"/>	PDI-151SC-A-04-05-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-05	<input type="checkbox"/>	PDI-151SC-A-05-06-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-06	<input type="checkbox"/>	PDI-151SC-A-06-07-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-07	<input type="checkbox"/>	PDI-151SC-A-07-08-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-08	<input type="checkbox"/>	PDI-152SC-A-00-01-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-09	<input type="checkbox"/>	PDI-152SC-A-06-07-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-10	<input type="checkbox"/>	PDI-152SC-A-07-08-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-11	<input type="checkbox"/>	PDI-152SC-A-08-09-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-12	<input type="checkbox"/>	PDI-152SC-A-09-10-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-13	<input checked="" type="checkbox"/>	PDI-152SC-A-10-11-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-14	<input type="checkbox"/>	PDI-152SC-A-11-12-200421	23-Apr-20 09:12	WR-2 G-6	
2000927-15	<input type="checkbox"/>	PDI-152SC-A-12-13-200421	23-Apr-20 09:12	WR-2 G-6	

WO Comments: Dioxin - 10g (dry weight)  
PCB - 5g extraction (dry weight)

DF 05102120  
RE 05/02/20

Pre-Prep Check Out: \_\_\_\_\_

Prep Check Out: RR 05/02/20

Prep Reconciled Initials/Date: RR 05/02/20

Pre-Prep Check In: \_\_\_\_\_

Prep Check In: RR 05/02/20

Spike Reconciled Initials/Date: ME 0510212020

VialBoxID: Animal Crossing

PREPARATION BENCH SHEET

Matrix: Solid

B0E0015

Chemist: RR RR 05/02/20

Method: 1613 Full List  
Method: 8290 2.3.7.8s Only

Prepared using: HRMS - Soxhlet

Prep Date/Time: 02-May-20 10:44

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	Florisl CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0E0015-BLK1	NA	(10.00)	DF RR 05/02/20	AO AC 05/04/20	NA	AO 05/05/20	AZ 05/05/20	AO 05/05/20	AO AZ 05/05/20
<input type="checkbox"/>	B0E0015-BS1	NA	(10.00)							
<input type="checkbox"/>	B0E0015-DUP1 2000950-03	11.29	11.36							
<input type="checkbox"/>	2000927-13RE2	12.90	12.94							
<input type="checkbox"/>	2000932-20RE2 (3)	26.35	26.67				brown ↓			
<input type="checkbox"/>	2000950-01	12.65	12.74							
<input type="checkbox"/>	2000950-02	11.08	11.13							
<input type="checkbox"/>	2000950-03	11.29	11.30							
<input type="checkbox"/>	<del>2000950-03</del> RR 05/02/20									
<input type="checkbox"/>	2000950-04	12.23	12.29			NA	AO 05/05/20		AO 05/05/20	AO AZ 05/05/20
<input type="checkbox"/>	2000950-05	11.96	11.97							
<input type="checkbox"/>	2000950-06	11.00	11.04							
<input type="checkbox"/>	2000950-07	11.00	11.02							
<input type="checkbox"/>	2000950-08	11.64	11.70							
<input type="checkbox"/>	2000950-09	12.76	12.81							

IS Name <u>U2</u>	NS Name <u>U2</u>	CRS Name <u>U2</u>	RS Name <u>U2</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 05/02/20</u>
PCDD/F <u>19L2301, 10ML</u>	PCDD/F <u>19F1013, 10ML</u>	PCDD/F <u>19F1002, 10ML</u>	PCDD/F <u>19I1003, 10ML</u>	Start Date/Time <u>05/02/20 1714</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 05/02/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>05/03/20 0922</u>	Other <u>NA</u>	Balance ID: <u>HPMS-9</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14 20ML</u>		

Comments:

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

(3) AZ 05/04/20

PREPARATION BENCH SHEET

Matrix: Solid

B0E0015

Chemist: RR

Method: 1613 Full List  
Method: 8290 2.3.7.8s Only

Prepared using: HRMS - Soxhlet

Prep Date/Time: 02-May-20 10:44

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	2000950-10	11.93	12.88	DF RR 05/02/20	CRS RE 05/04/20	NA	ABSG 05/05/20	AA 05/05/20	Florisil 05/05/20	RS 05/05/20
<input type="checkbox"/>	2000950-11	11.22	11.36	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000950-12	12.35	12.52	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000950-13	11.95	12.06	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-05RE2	12.65	12.70	↓	↓	↓	↓	↓	↓	↓

\* DFOS/02/20

IS Name <u>1922501, 10mL</u>	NS Name <u>18F1913, 10mL</u>	CRS Name <u>14E1602, 10mL</u>	RS Name <u>19I1603, 10mL</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 05/02/20</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time: <u>05/02/20 1714</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 05/02/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time: <u>05/03/20 0922</u>	Other: <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH	PAH	PAH	PAH	Final Volume(s): <u>C14 20mL</u>		

Comments:

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



Batch: B0E0015

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000927-13RE2	12.94 ✓	77.49469	10.0278	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000932-20RE2	26.67 ✓	37.95494	10.1226	20	02-May-20 10:44	RR			Sediment	8290 2,3,7,8s Only
2000950-01	12.74 ✓	79.06977	10.0735	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-02	11.13 ✓	90.28436	10.0486	20	02-May-20 10:44	RR			Sediment	1613 Full List
<del>2000950-03</del>	<del>11.3</del>	<del></del>	<del></del>	<del>20</del>	<del>02-May-20 10:44</del>	<del>RR</del>	<del></del>	<del></del>	<del>Sediment</del>	<del>8290 2,3,7,8s Only</del>
2000950-03	11.3 ✓	88.55585	10.0068	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-04	12.29 ✓	81.74274	10.0462	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-05	11.97 ✓	83.59376	10.0062	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-06	11.04 ✓	90.93333	10.0390	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-07	11.02 ✓	90.93137	10.0206	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-08	11.7 ✓	85.94595	10.0557	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-09	12.81 ✓	78.39196	10.0420	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-10	12.88 ✓	84.51328	10.8853	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-11	11.36 ✓	89.14729	10.1271	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-12	12.52 ✓	80.99999	10.1412	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-13	12.06 ✓	83.66606	10.0901	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000951-05RE2	12.7 ✓	79.04329	10.0385	20	02-May-20 10:44	RR			Sediment	1613 Full List
<b>B0E0015-BLK1</b>	10			20	02-May-20 10:44	RR				QC
<b>B0E0015-BS1</b>	10			20	02-May-20 10:44	RR	18F1913	10		QC
<b>B0E0015-DUP1</b>	11.36	88.55585	10.0599446	20	02-May-20 10:44	RR				QC

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



Process Sheet

Workorder: 2000927

Prep Expiration: 2021-04-21  
Client: Anchor QEA, LLC

Workorder Due: 30-Apr-20 00:00

TAT: 7

Method: 1668C Full List  
Matrix: Solid  
Client Matrix: Sediment  
Also run: Percent Solids

Prep Batch: B000265

Prep Data Entered: AZ 04/26/20  
Date and Initials

Initial Sequence: S0D0079

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000927-08 <u>A</u>	<input checked="" type="checkbox"/>	PDI-152SC-A-00-01-200421	23-Apr-20 09:12	WR-2 G-6	

WO Comments: Pest - 1g extraction (dry weight). DDX, Aldrin, 5-Chlordane, Dieldrin, Lindane  
 Dioxin - 10g (dry weight) RR 04/24/20  
 PCB - 5g extraction (dry weight) DF 04/24/20

Pre-Prep Check Out: RR 04/23/20  
Pre-Prep Check In: RR 04/23/20

Prep Check Out: RR 04/24/20  
Prep Check In: RR 04/24/20

Prep Reconciled Initials/Date: DF 04/23/20  
Spike Reconciled Initials/Date: RR 04/23/20  
VialBoxID: HIGHLANDER II

PREPARATION BENCH SHEET

Matrix: Solid

B0D0265

Chemist: RR

Method: 1668C Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 24-Apr-20 10:12

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"/>	B0D0265-BLK1	NA	(5.00)	DF RR 04/24/20	AZ EML 04/26/20	NA	AZ 04/26/20	NA	NA	AZ AO 04/26/20
<input type="checkbox"/>	B0D0265-BS1	NA	(5.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000927-08 (A)	5.51	5.57	↓	↓	↓	↓	↓	↓	↓

(A) 1:20 Dilution AZ 04/26/20

IS Name <u>V2</u>	NS Name <u>V3</u>	CRS Name <u>V2</u>	RS Name <u>V2</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 04/24/20</u>
PCDD/F <u>2651*</u>	PCDD/F <u>2651*</u>	PCDD/F <u>2651*</u>	PCDD/F <u>2651*</u>	Start Date/Time <u>04/24/20 1422</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 04/24/20</u>
PCB <u>19B2604, 10mL</u>	PCB <u>19B2602, 10mL</u>	PCB <u>19B2603, 10mL</u>	PCB <u>19B2604, 10mL</u>	Stop Date/Time <u>04/25/20 0652</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C9</u>	<u>100mL</u>	

19B2601, 10mL DF 04/24/20

Comments:

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

Batch: B0D0265

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000927-08	5.57 ✓	90.6822	5.0510	100	24-Apr-20 10:12 ✓	RR ✓			Sediment	1668C Full List
<b>B0D0265-BLK1</b>	<b>5 ✓</b>			100	24-Apr-20 10:12 ✓	RR ✓				QC
<b>B0D0265-BS1</b>	<b>5 ✓</b>			100	24-Apr-20 10:12 ✓	RR ✓	19B2602 ✓	10 ✓		QC

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

DF 05/01/20

Printed: 5/1/2020 4:26:18PM  
Page 1 of 1

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-4.qld

Last Altered: Friday, May 01, 2020 1:18:57 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 1:22:06 PM Pacific Daylight Time

*GRB 05/01/2020*

*CT 05/05/2020*

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

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

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.000	26.021		1.001				0.104	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.116		1.001				0.0975	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.473		1.000				0.0958	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.559		1.000				0.0962	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.846		1.000				0.111	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.329		1.000				0.146	
7	7 OCDD			NO	0.933	10.000	41.322		1.000				0.155	
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.057		1.001				0.0577	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.803		1.001				0.0621	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.805		1.001				0.0575	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.600		1.000				0.0672	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.727		1.000				0.0675	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.326		1.001				0.0751	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.000	35.176		1.000				0.121	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	36.949		1.001				0.0911	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.915		1.000				0.123	
17	17 OCDF			NO	0.802	10.000	41.492		1.000				0.189	
18	18 13C-2,3,7,8-TCDD	7.63e5	0.79	NO	1.16	10.000	25.969	25.99	1.026	1.027	93.986	47.0	0.178	
19	19 13C-1,2,3,7,8-PeCDD	6.21e5	0.63	NO	0.847	10.000	31.049	31.09	1.227	1.229	104.71	52.4	0.169	
20	20 13C-1,2,3,4,7,8-HxCDD	4.73e5	1.30	NO	0.750	10.000	34.463	34.46	1.014	1.014	97.214	48.6	0.311	
21	21 13C-1,2,3,6,7,8-HxCDD	6.29e5	1.32	NO	0.963	10.000	34.575	34.56	1.017	1.017	100.66	50.3	0.242	
22	22 13C-1,2,3,7,8,9-HxCDD	5.64e5	1.27	NO	0.838	10.000	34.844	34.84	1.025	1.025	103.72	51.9	0.278	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.60e5	1.10	NO	0.641	10.000	38.331	38.32	1.128	1.128	110.49	55.2	0.379	
24	24 13C-OCDD	7.19e5	0.90	NO	0.586	10.000	41.321	41.32	1.216	1.216	188.99	47.2	0.324	
25	25 13C-2,3,7,8-TCDF	1.06e6	0.78	NO	1.03	10.000	25.030	25.03	0.989	0.989	92.436	46.2	0.285	
26	26 13C-1,2,3,7,8-PeCDF	9.55e5	1.58	NO	0.845	10.000	29.741	29.78	1.176	1.177	102.31	51.2	0.417	
27	27 13C-2,3,4,7,8-PeCDF	9.16e5	1.62	NO	0.814	10.000	30.731	30.77	1.215	1.216	101.85	50.9	0.433	
28	28 13C-1,2,3,4,7,8-HxCDF	6.91e5	0.51	NO	1.00	10.000	33.603	33.60	0.989	0.989	105.89	52.9	0.356	
29	29 13C-1,2,3,6,7,8-HxCDF	7.66e5	0.52	NO	1.14	10.000	33.726	33.72	0.992	0.992	103.81	51.9	0.314	
30	30 13C-2,3,4,6,7,8-HxCDF	6.95e5	0.51	NO	1.02	10.000	34.293	34.29	1.009	1.009	104.75	52.4	0.349	
31	31 13C-1,2,3,7,8,9-HxCDF	5.43e5	0.53	NO	0.845	10.000	35.184	35.18	1.035	1.035	98.936	49.5	0.423	

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-4.qld

Last Altered: Friday, May 01, 2020 1:18:57 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:22:06 PM Pacific Daylight Time

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.67e5	0.43	NO	0.771	10.000	36.913	36.91	1.086	1.086	113.31	56.7	0.335	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.31e5	0.42	NO	0.482	10.000	38.922	38.92	1.145	1.145	105.70	52.9	0.535	
34	34 13C-OCDF	7.35e5	0.89	NO	0.669	10.000	41.491	41.49	1.221	1.221	169.35	42.3	0.236	
35	35 37Cl-2,3,7,8-TCDD	3.77e5			1.10	10.000	25.999	26.00	1.028	1.028	48.977	61.2	0.0331	
36	36 13C-1,2,3,4-TCDD	1.40e6	0.80	NO	1.00	10.000	25.350	25.30	1.000	1.000	200.00	100	0.207	
37	37 13C-1,2,3,4-TCDF	2.21e6	0.80	NO	1.00	10.000	23.560	23.52	1.000	1.000	200.00	100	0.295	
38	38 13C-1,2,3,4,6,9-HxCDF	1.30e6	0.52	NO	1.00	10.000	34.000	33.98	1.000	1.000	200.00	100	0.357	
39	39 Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0629	
40	40 Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0455	
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0547	
42	42 Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0745	
43	43 Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0238	
44	44 1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.0154	
45	45 Total Penta-Furans				0.910	10.000	29.275		0.000				0.0270	
46	46 Total Hexa-Furans				0.922	10.000	33.555		0.000				0.0429	
47	47 Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0596	

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-4.qld

Last Altered: Friday, May 01, 2020 1:18:57 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 1:22:06 PM Pacific Daylight Time

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

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

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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



Dataset: U:\VG12.PRO\Results\200501R1\200501R1-4.qld

Last Altered: Friday, May 01, 2020 1:18:57 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 1:22:06 PM Pacific Daylight Time

18, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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

Dataset: Untitled

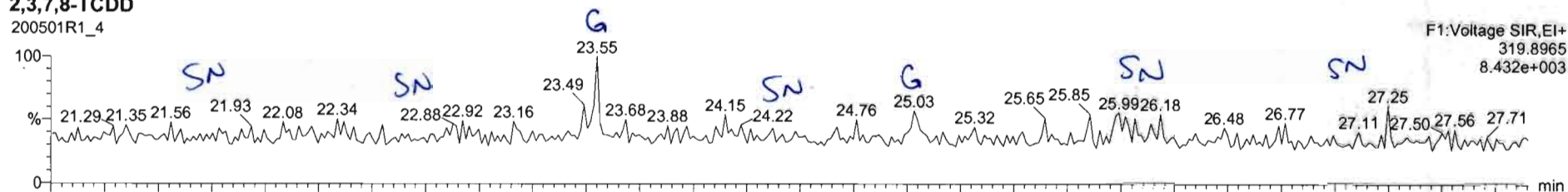
Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

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

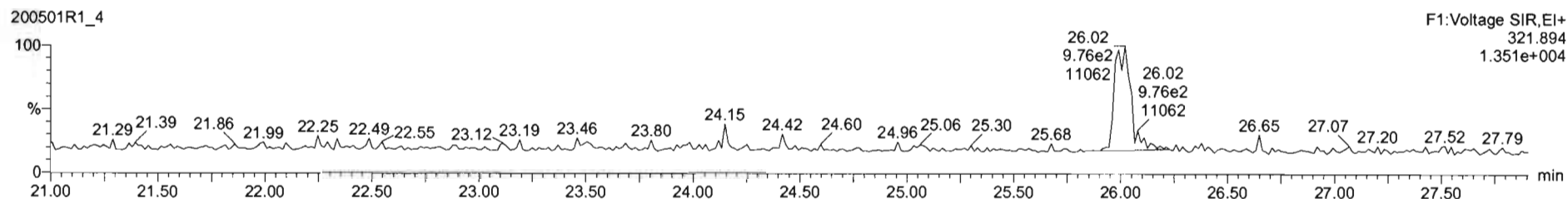
Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200501R1\_4

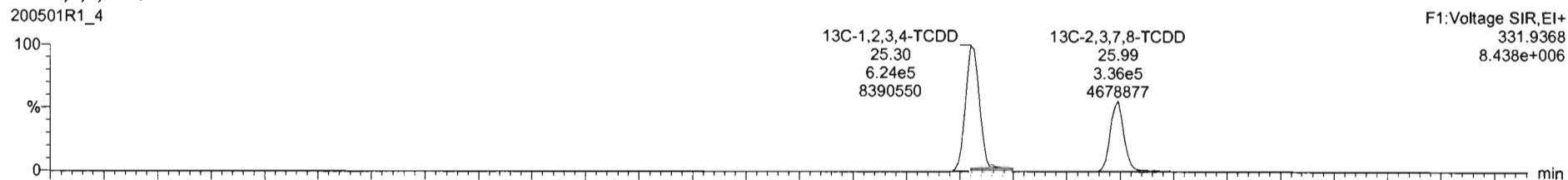


200501R1\_4

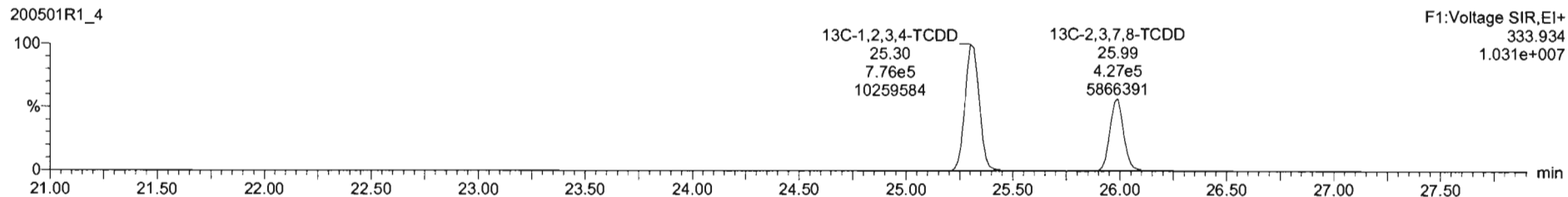


13C-2,3,7,8-TCDD

200501R1\_4



200501R1\_4



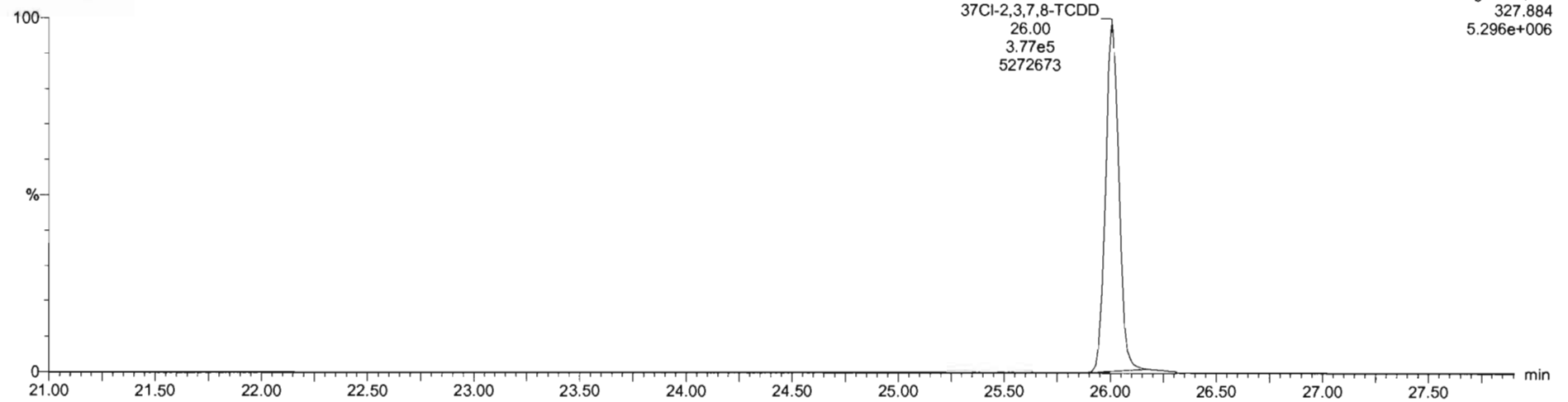
Dataset: Untitled

Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

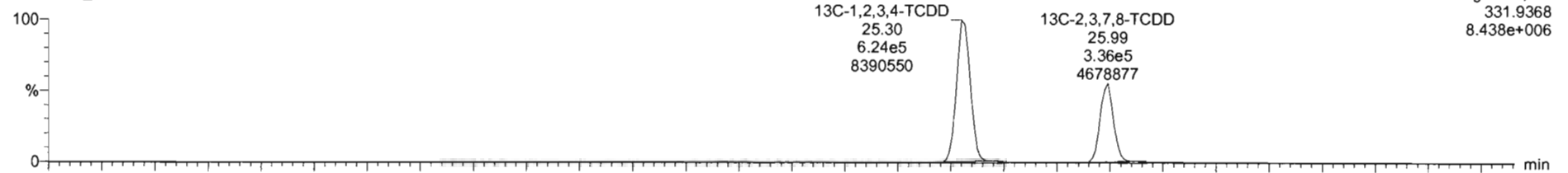
**37Cl-2,3,7,8-TCDD**

200501R1\_4

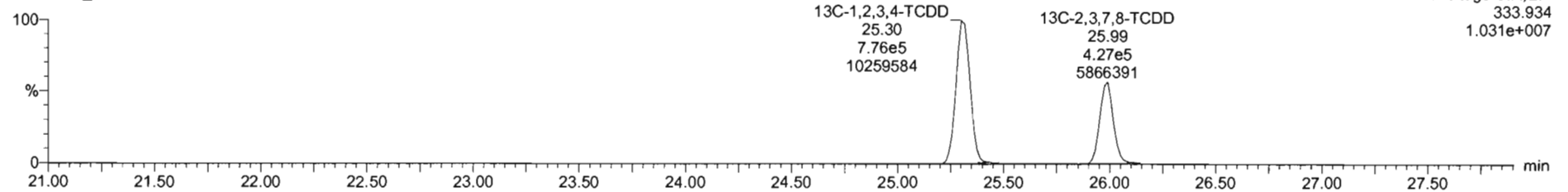


**13C-1,2,3,4-TCDD**

200501R1\_4



200501R1\_4



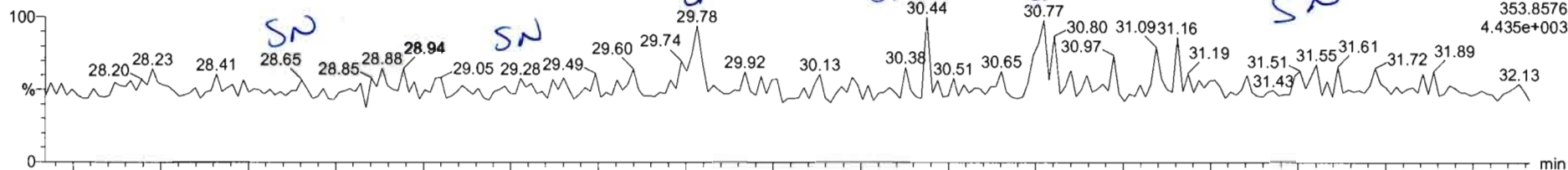
Dataset: Untitled

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Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

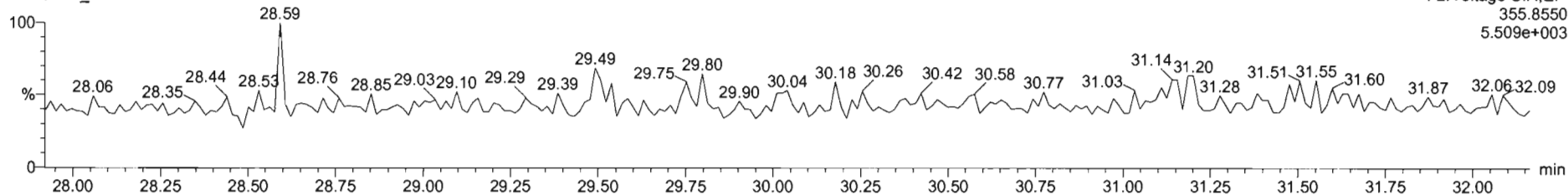
Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200501R1\_4

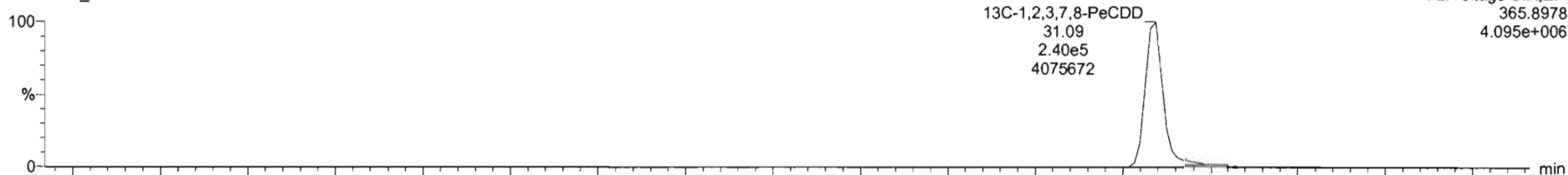


200501R1\_4

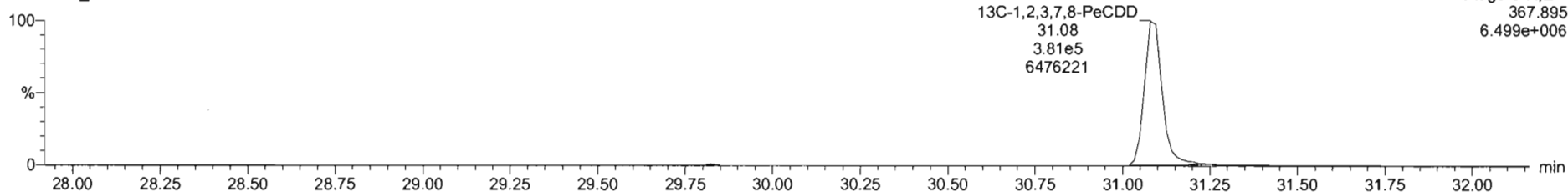


13C-1,2,3,7,8-PeCDD

200501R1\_4



200501R1\_4



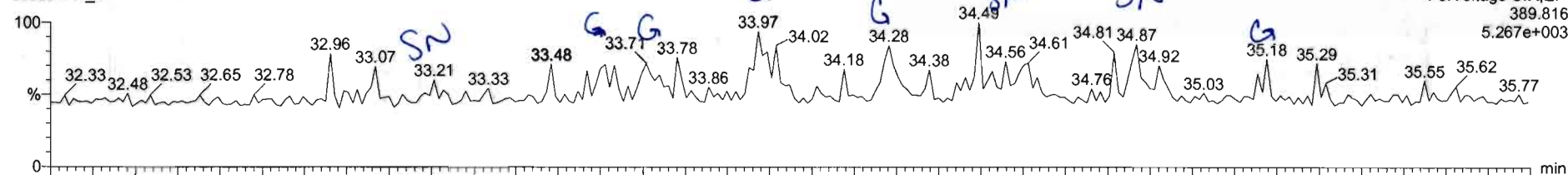
Dataset: Untitled

Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

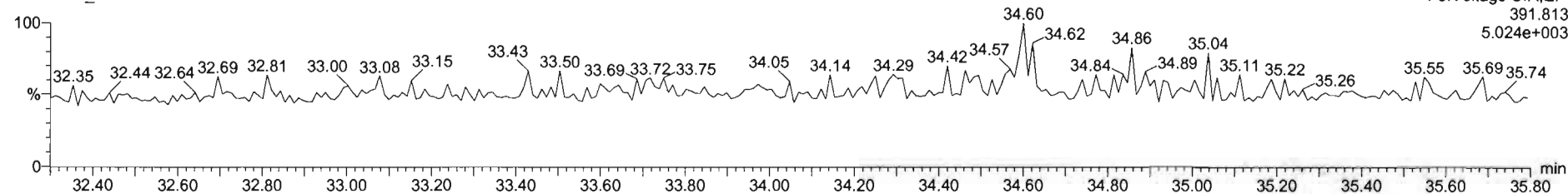
Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

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

200501R1\_4

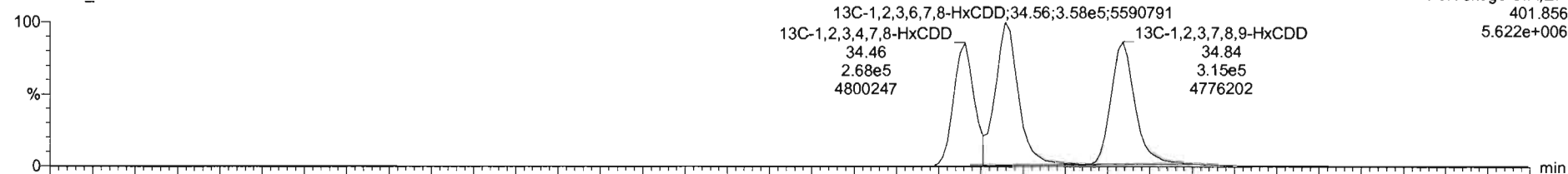


200501R1\_4

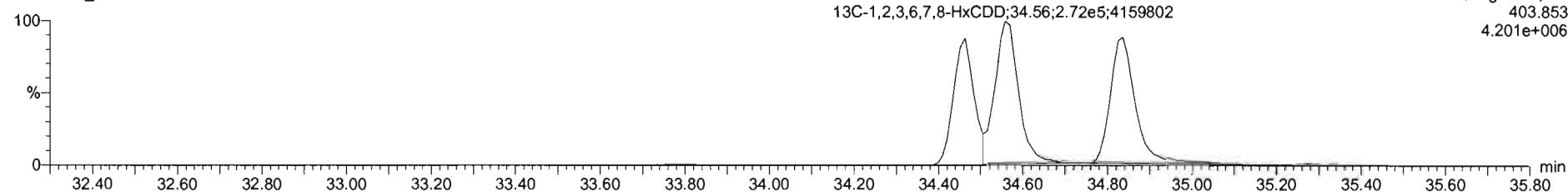


13C-1,2,3,4,7,8-HxCDD

200501R1\_4



200501R1\_4



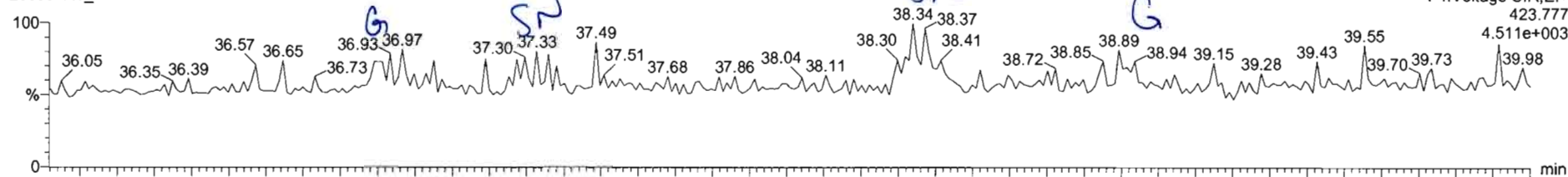
Dataset: Untitled

Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

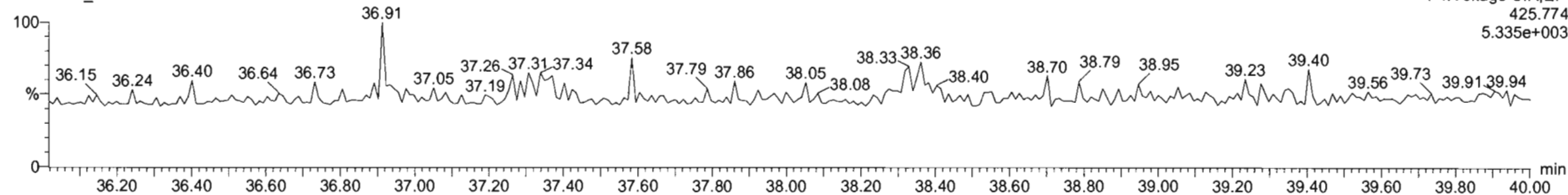
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1,2,3,4,6,7,8-HpCDD

200501R1\_4

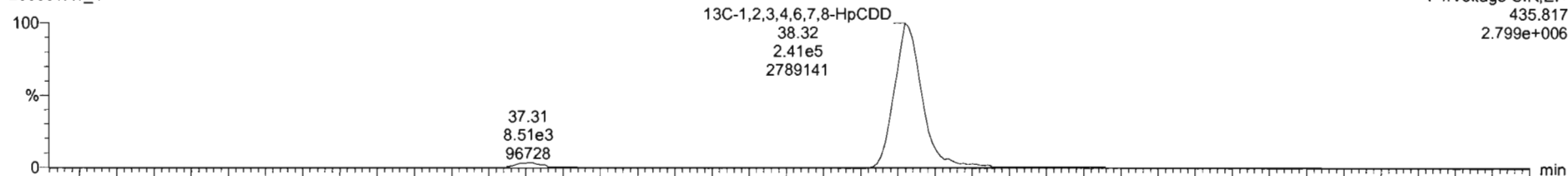


200501R1\_4

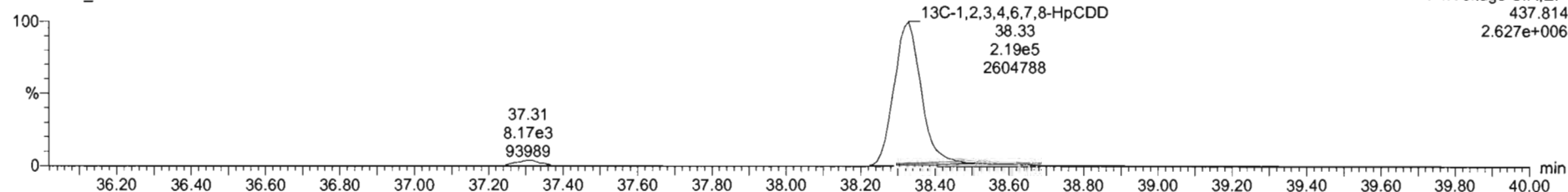


13C-1,2,3,4,6,7,8-HpCDD

200501R1\_4



200501R1\_4

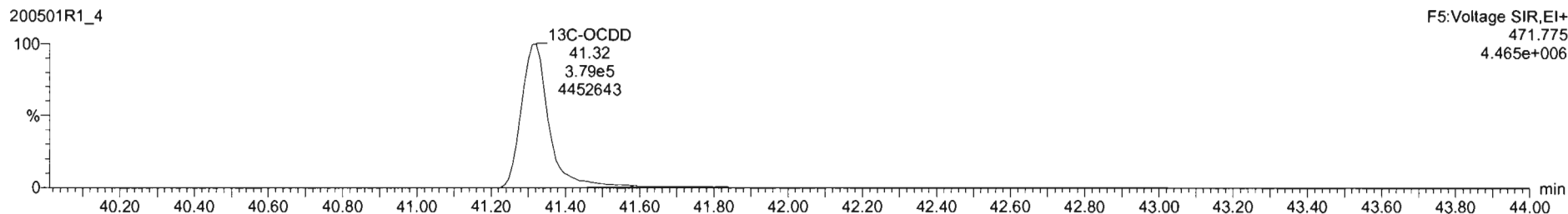
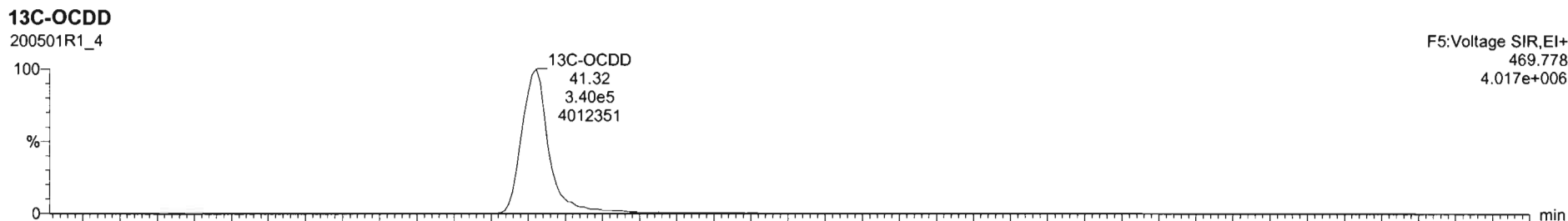
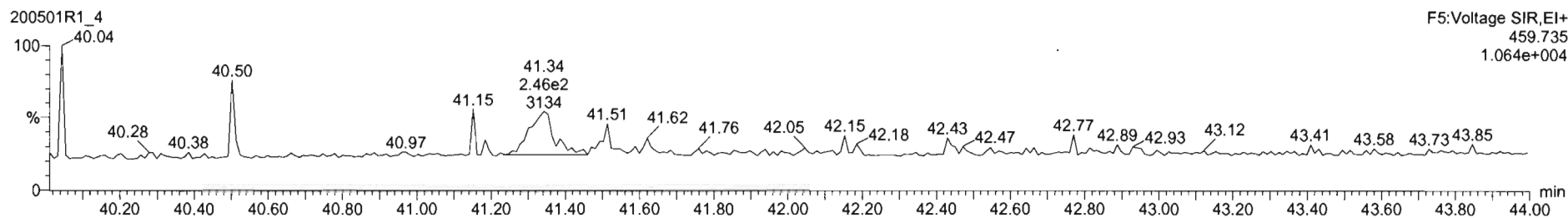
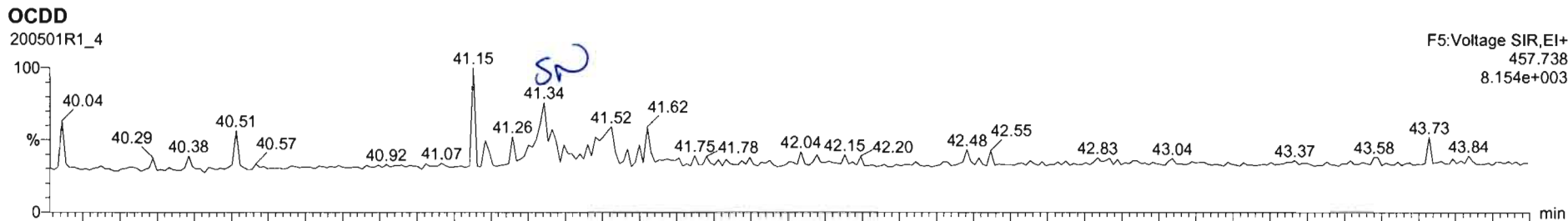


Dataset: Untitled

Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank



Dataset: Untitled

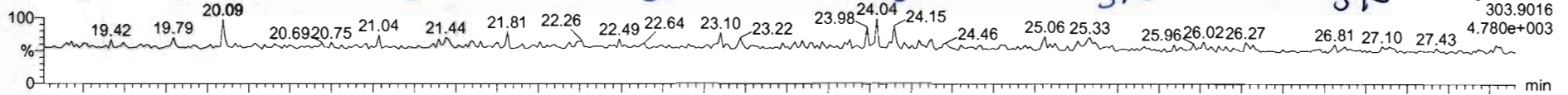
Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

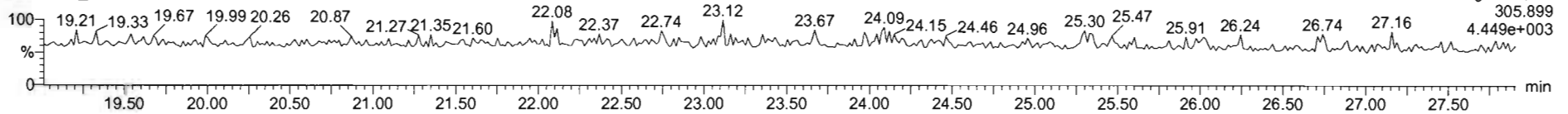
Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

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

200501R1\_4

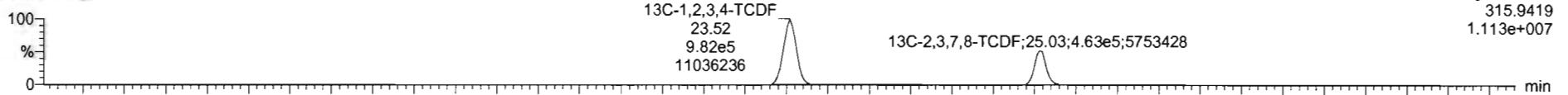


200501R1\_4

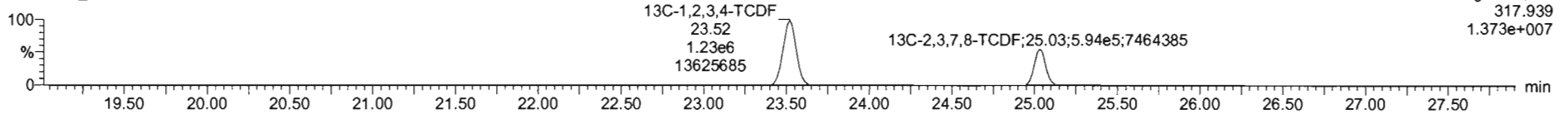


**13C-2,3,7,8-TCDF**

200501R1\_4

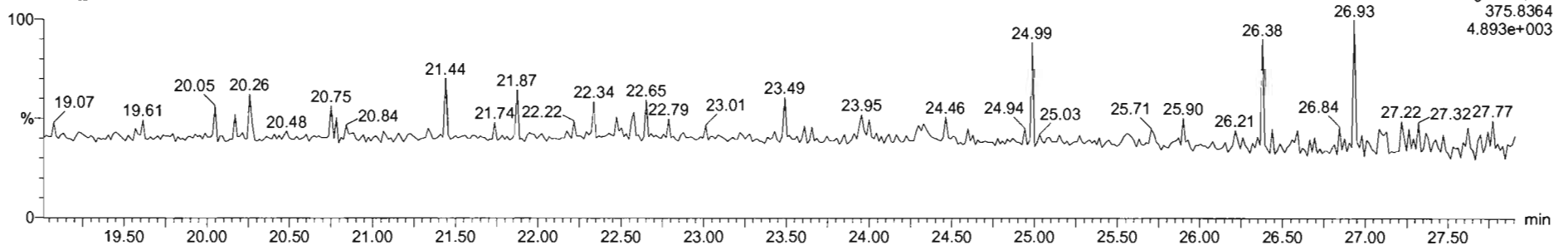


200501R1\_4



**DPE1**

200501R1\_4





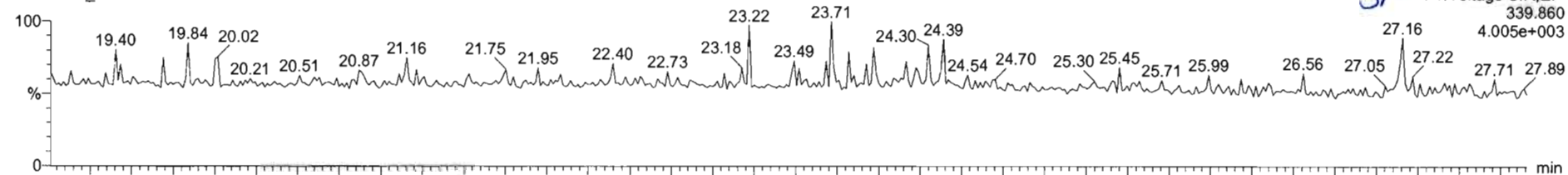
Dataset: Untitled

Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

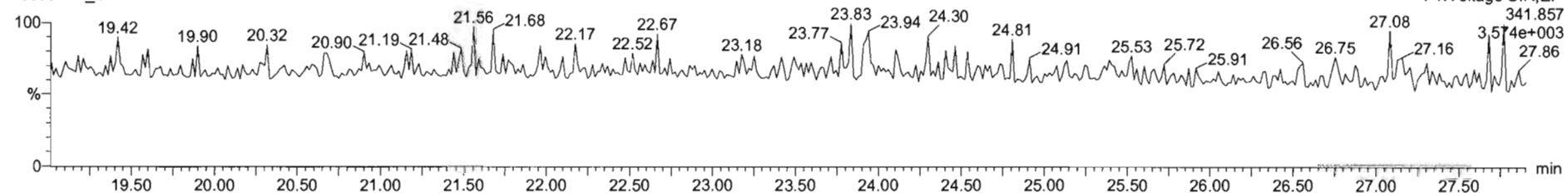
Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200501R1\_4

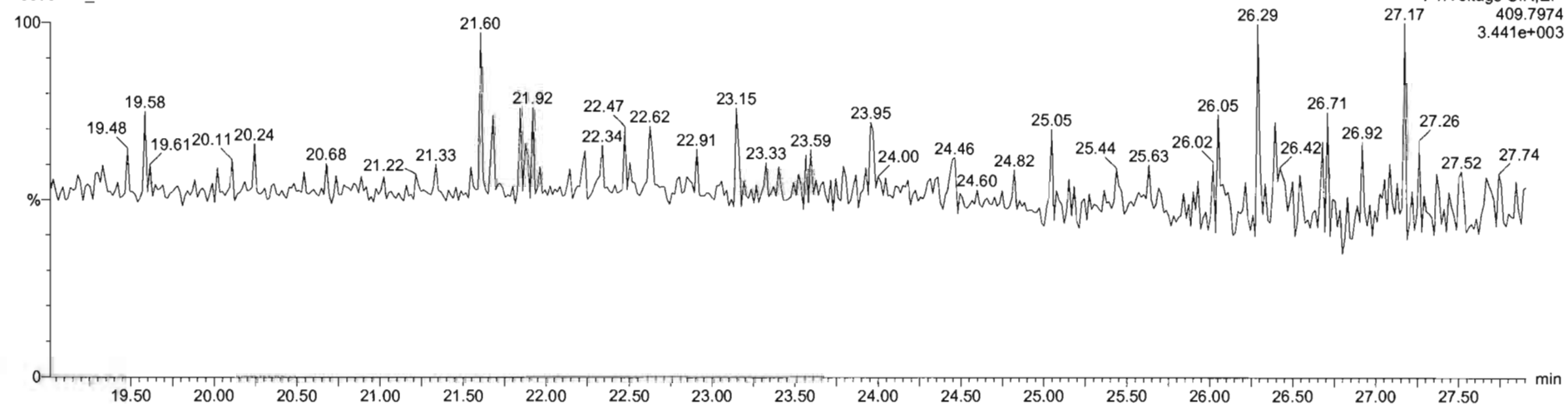


200501R1\_4



DPE6

200501R1\_4

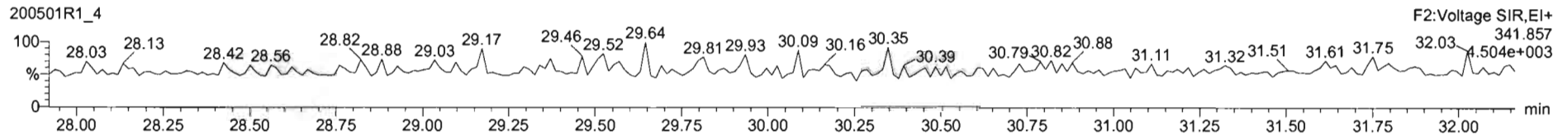
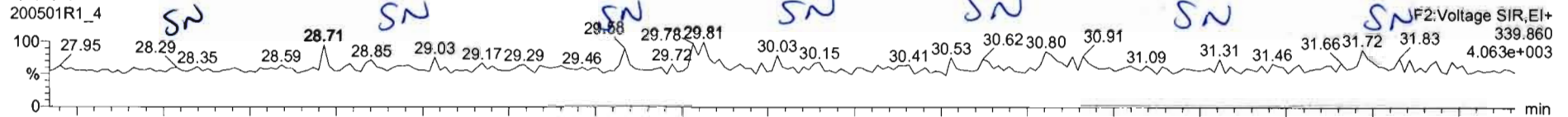


Dataset: Untitled

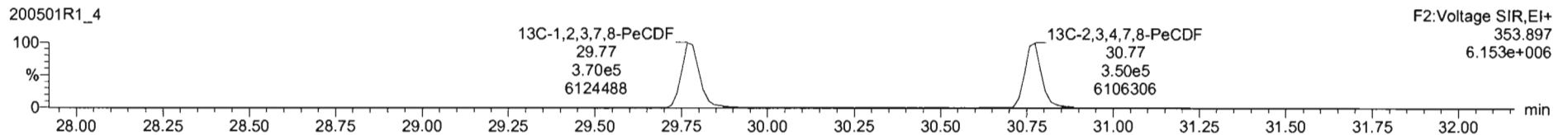
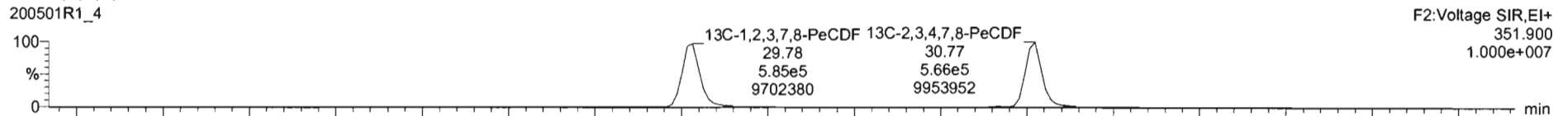
Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

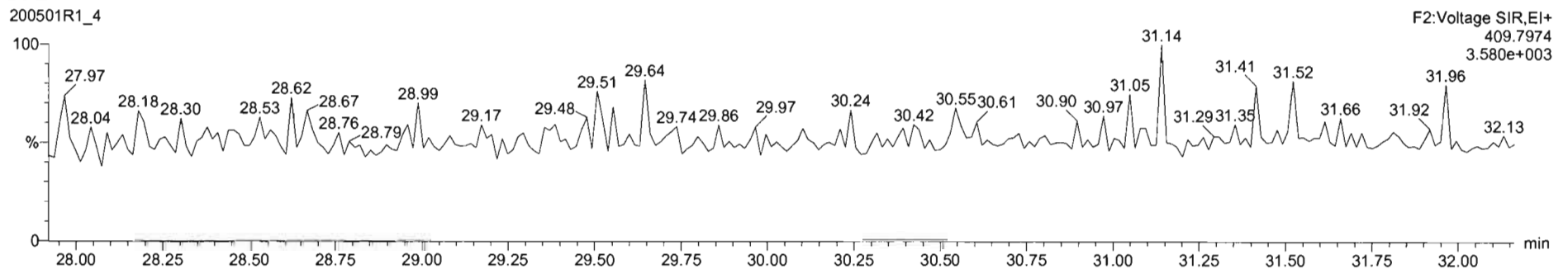
1,2,3,7,8-PeCDF



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



DPE2

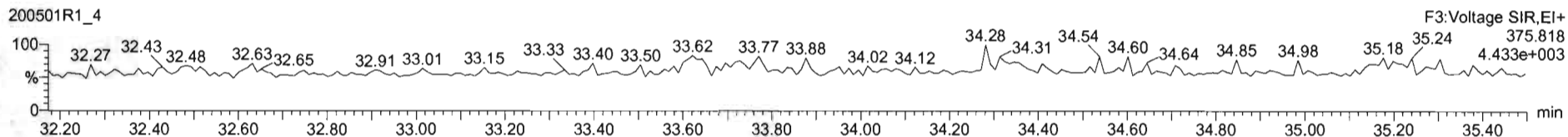
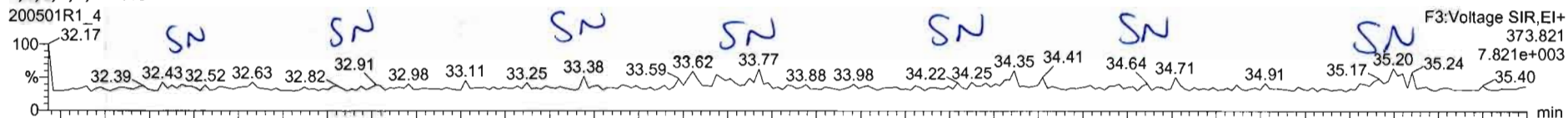


Dataset: Untitled

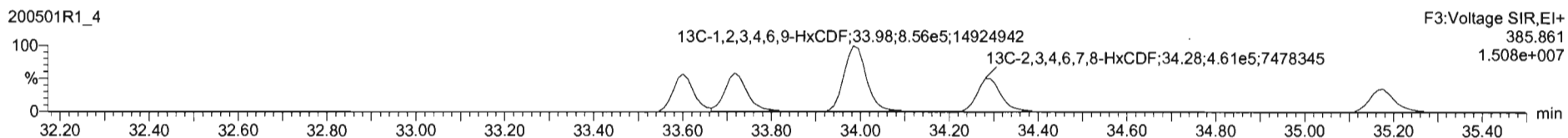
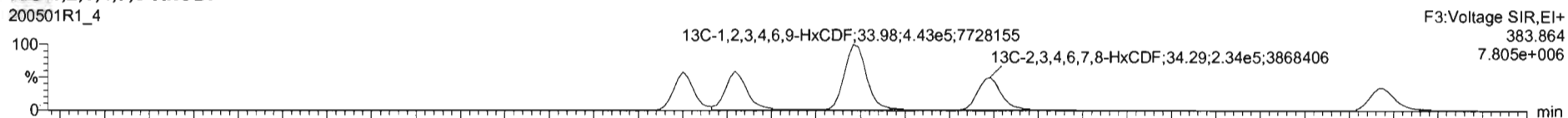
Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

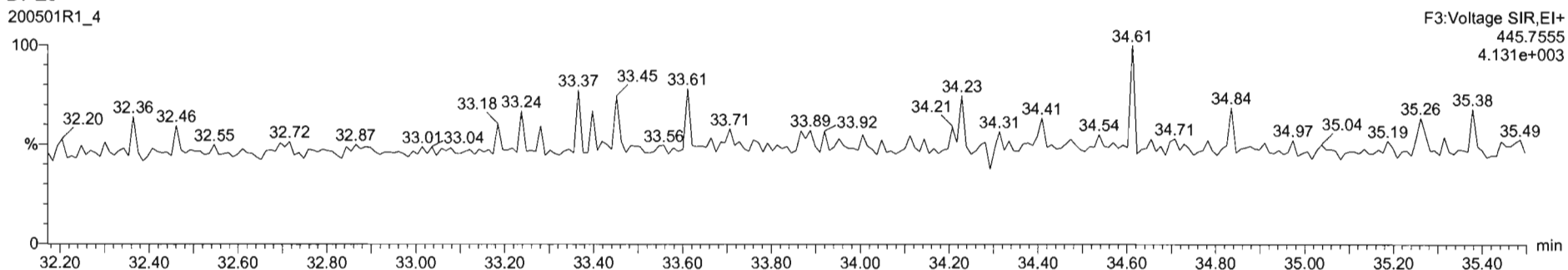
1,2,3,4,7,8-HxCDF



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



DPE3

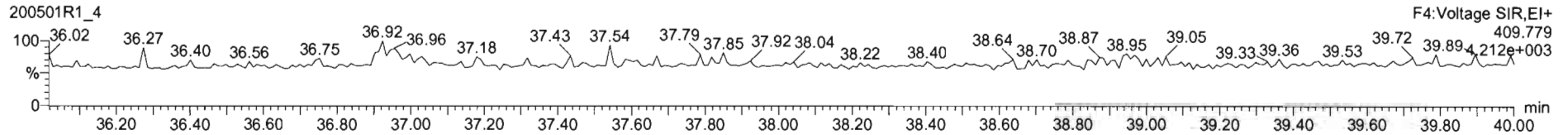
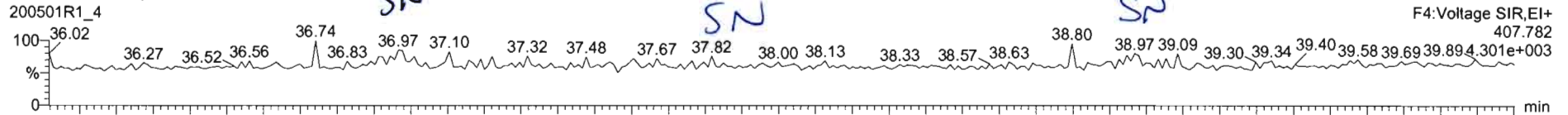


Dataset: Untitled

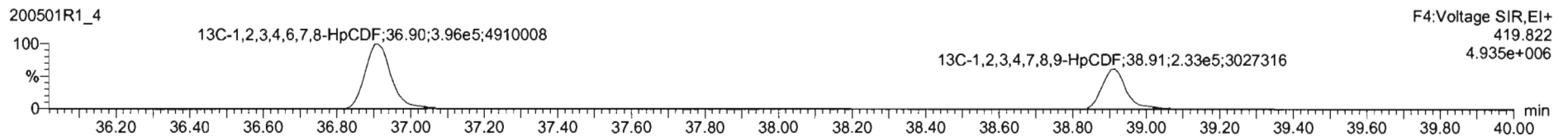
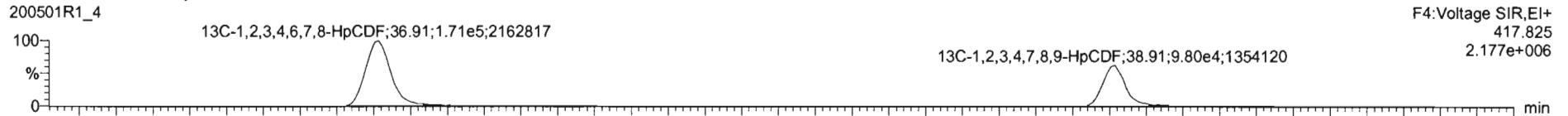
Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank

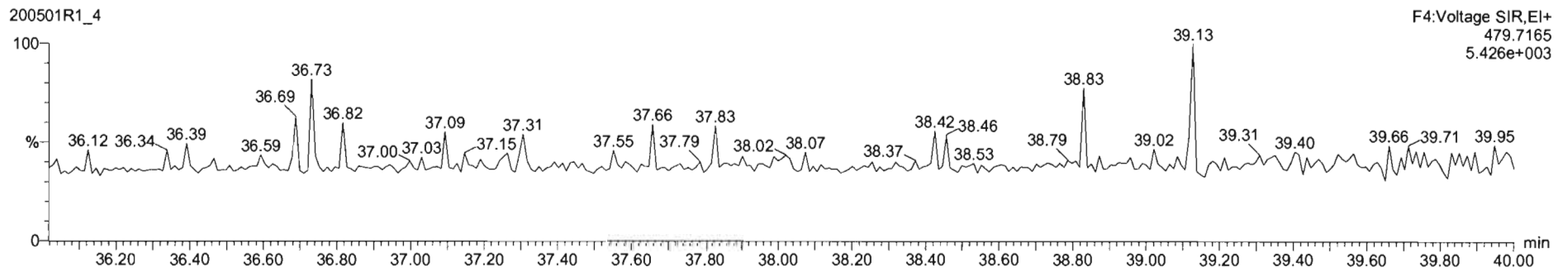
1,2,3,4,6,7,8-HpCDF



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



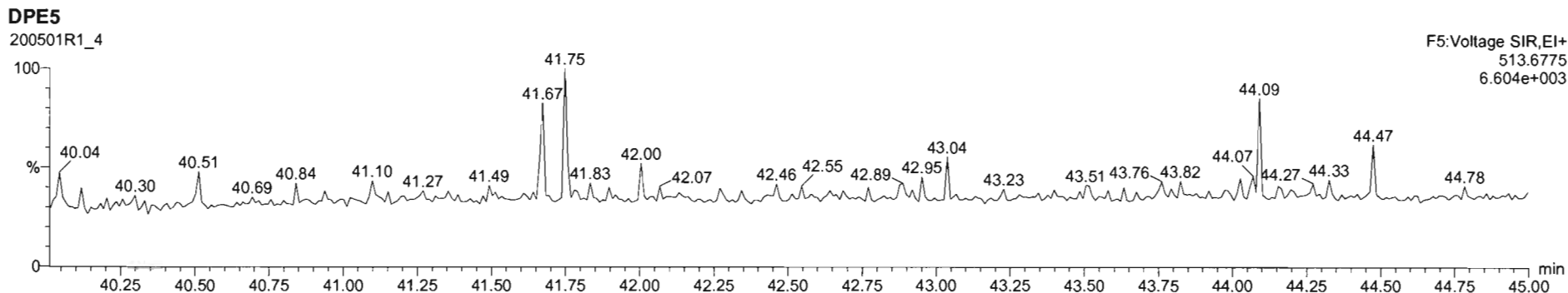
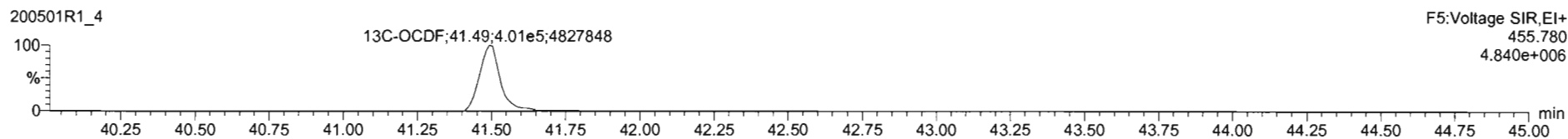
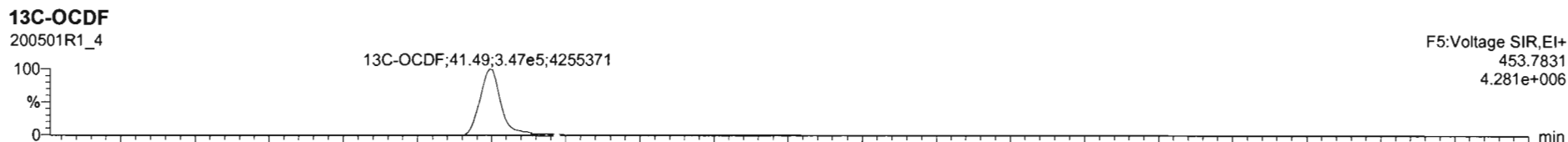
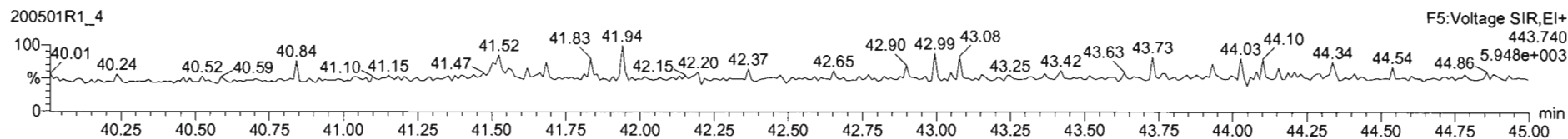
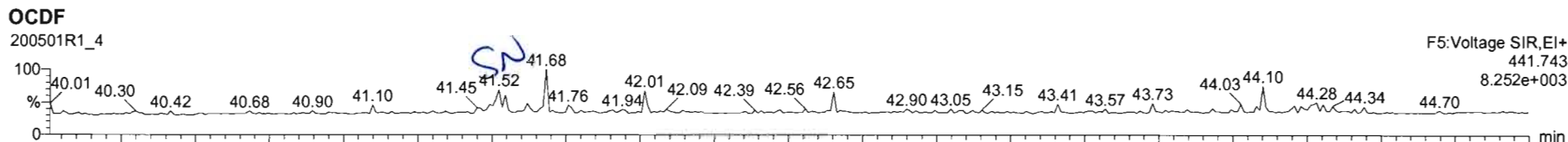
DPE4



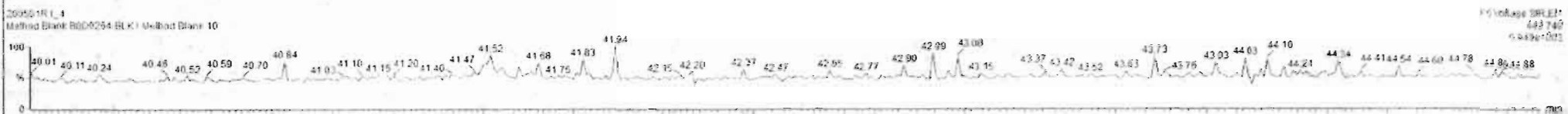
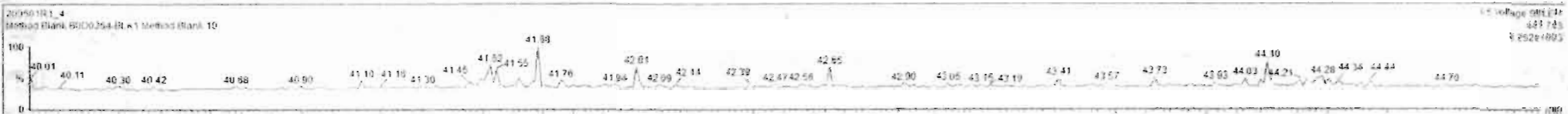
Dataset: Untitled

Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank



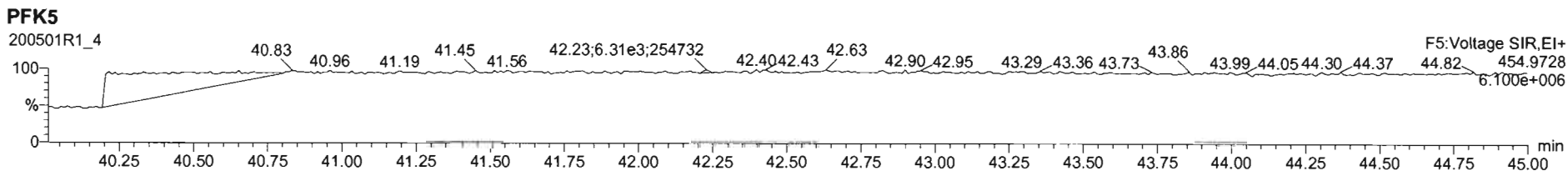
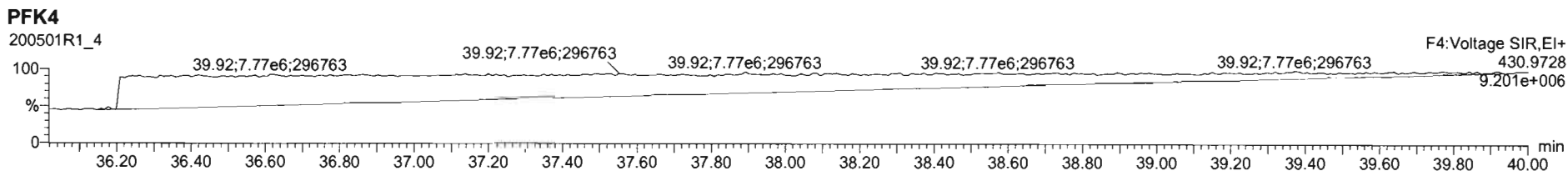
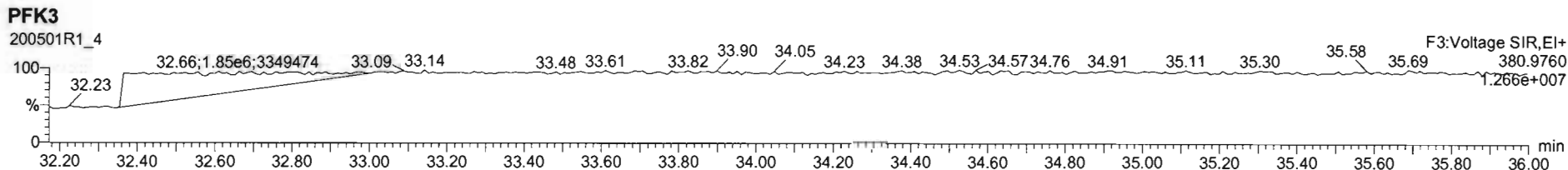
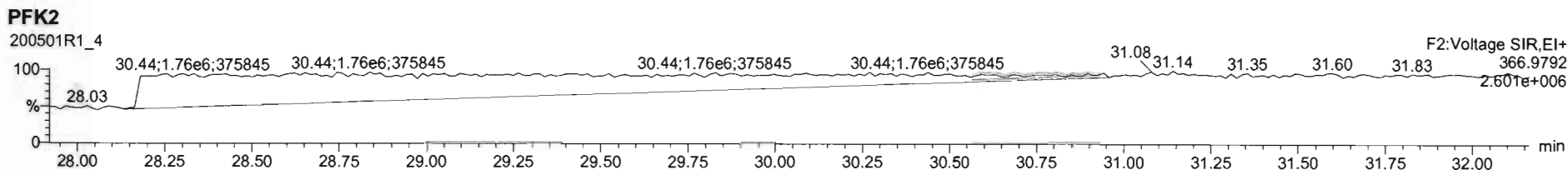
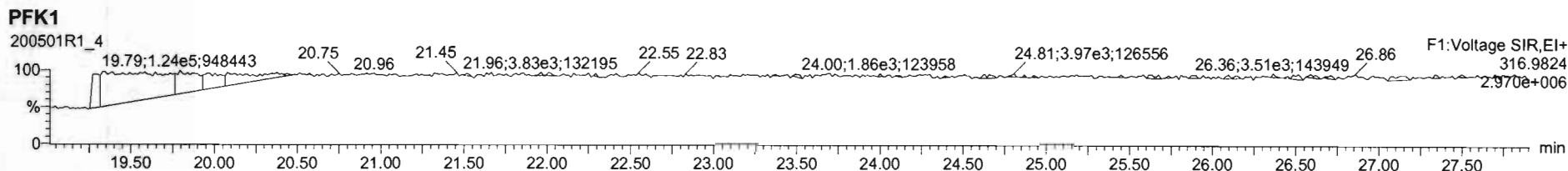
SL	Name	Resp	RA	inj	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD		NO	0.9475	10.000					0.104		
2	1,2,3,7,8-PeCDD		NO	0.9425	10.000					0.0975		
3	1,2,3,4,7,8-HxCDD		NO	1.0041	10.000					0.0950		
4	1,2,3,6,7,8-HxCDD		NO	0.9151	10.000					0.0962		
5	1,2,3,7,8,9-HxCDD		NO	0.9145	10.000					0.111		
6	1,2,3,4,6,7,8-HpCDD		NO	0.8979	10.000					0.146		
7	OCDD		NO	0.9335	10.000					0.155		
8	2,3,7,8-TCDF		NO	0.7071	10.000					0.0577		
9	1,2,3,7,8-PeCDF		NO	0.9152	10.000					0.0521		
10	2,3,4,7,8-PeCDF		NO	0.9684	10.000					0.0575		
11	1,2,3,4,7,8-HxCDF		NO	0.8782	10.000					0.0672		
12	1,2,3,6,7,8-HxCDF		NO	0.8740	10.000					0.0675		
13	2,3,4,6,7,8-HxCDF		NO	0.9217	10.000					0.0751		
14	1,2,3,7,8,9-HxCDF		NO	0.8642	10.000					0.121		
15	1,2,3,4,6,7,8-HpCDF		NO	0.8712	10.000					0.0911		
16	1,2,3,4,7,8,9-HpCDF		NO	1.0116	10.000					0.123		
17	OCDF		NO	0.8021	10.000					0.189		



Dataset: Untitled

Last Altered: Friday, May 01, 2020 1:09:12 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:15 PM Pacific Daylight Time

Name: 200501R1\_4, Date: 01-May-2020, Time: 11:21:06, ID: B0D0264-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200501R1\200501R1-2.qld

Last Altered: Friday, May 01, 2020 1:12:09 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:12:38 PM Pacific Daylight Time

*GRS 05/01/2020*

*C7 US/US/WWW*

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

Name: 200501R1\_2, Date: 01-May-2020, Time: 09:45:38, ID: B0D0264-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	3.35e4	0.76	NO	0.947	10.000	26.006	26.00	1.001	1.001	18.638		0.263	18.6
2	2 1,2,3,7,8-PeCDD	1.55e5	0.63	NO	0.942	10.000	31.101	31.09	1.001	1.000	94.026		0.442	94.0
3	3 1,2,3,4,7,8-HxCDD	1.45e5	1.25	NO	1.06	10.000	34.462	34.46	1.000	1.000	98.361		0.460	98.4
4	4 1,2,3,6,7,8-HxCDD	1.62e5	1.23	NO	0.915	10.000	34.559	34.57	1.000	1.000	100.65		0.455	101
5	5 1,2,3,7,8,9-HxCDD	1.47e5	1.23	NO	0.915	10.000	34.845	34.83	1.000	1.000	97.268		0.528	97.3
6	6 1,2,3,4,6,7,8-HpCDD	1.15e5	1.07	NO	0.898	10.000	38.329	38.33	1.000	1.000	97.177		0.608	97.2
7	7 OCDD	1.77e5	0.88	NO	0.933	10.000	41.301	41.32	1.000	1.001	197.71		0.569	198
8	8 2,3,7,8-TCDF	3.54e4	0.76	NO	0.787	10.000	25.057	25.06	1.001	1.001	18.944		0.221	18.9
9	9 1,2,3,7,8-PeCDF	2.39e5	1.55	NO	0.910	10.000	29.788	29.78	1.001	1.001	99.342		0.386	99.3
10	10 2,3,4,7,8-PeCDF	2.33e5	1.56	NO	0.966	10.000	30.789	30.77	1.001	1.001	96.481		0.368	96.5
11	11 1,2,3,4,7,8-HxCDF	1.76e5	1.21	NO	0.878	10.000	33.600	33.61	1.000	1.000	103.82		0.455	104
12	12 1,2,3,6,7,8-HxCDF	1.96e5	1.24	NO	0.874	10.000	33.727	33.73	1.000	1.000	99.921		0.448	99.9
13	13 2,3,4,6,7,8-HxCDF	1.84e5	1.22	NO	0.922	10.000	34.316	34.29	1.001	1.000	100.47		0.490	100
14	14 1,2,3,7,8,9-HxCDF	1.36e5	1.20	NO	0.864	10.000	35.166	35.19	1.000	1.001	98.481		0.737	98.5
15	15 1,2,3,4,6,7,8-HpCDF	1.44e5	0.99	NO	0.871	10.000	36.939	36.91	1.001	1.000	100.12		0.545	100
16	16 1,2,3,4,7,8,9-HpCDF	9.50e4	0.99	NO	1.01	10.000	38.904	38.92	1.000	1.000	98.627		0.806	98.6
17	17 OCDF	1.77e5	0.88	NO	0.802	10.000	41.482	41.49	1.000	1.000	209.07		0.797	209
18	18 13C-2,3,7,8-TCDD	3.79e5	0.77	NO	1.16	10.000	25.984	25.98	1.026	1.026	49.285	24.6	0.196	
19	19 13C-1,2,3,7,8-PeCDD	3.50e5	0.64	NO	0.847	10.000	31.068	31.08	1.227	1.228	62.205	31.1	0.205	
20	20 13C-1,2,3,4,7,8-HxCDD	2.77e5	1.25	NO	0.750	10.000	34.463	34.45	1.014	1.014	59.240	29.6	0.449	
21	21 13C-1,2,3,6,7,8-HxCDD	3.52e5	1.28	NO	0.963	10.000	34.575	34.56	1.017	1.017	58.447	29.2	0.350	
22	22 13C-1,2,3,7,8,9-HxCDD	3.30e5	1.29	NO	0.838	10.000	34.844	34.83	1.025	1.025	63.000	31.5	0.402	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.64e5	1.05	NO	0.641	10.000	38.331	38.32	1.128	1.128	65.993	33.0	0.305	
24	24 13C-OCDD	3.83e5	0.91	NO	0.586	10.000	41.321	41.30	1.216	1.215	104.64	26.2	0.352	
25	25 13C-2,3,7,8-TCDF	4.75e5	0.80	NO	1.03	10.000	25.045	25.03	0.989	0.989	44.439	22.2	0.344	
26	26 13C-1,2,3,7,8-PeCDF	5.30e5	1.63	NO	0.845	10.000	29.759	29.77	1.176	1.176	60.616	30.3	0.380	
27	27 13C-2,3,4,7,8-PeCDF	4.99e5	1.61	NO	0.814	10.000	30.749	30.76	1.215	1.215	59.317	29.7	0.394	
28	28 13C-1,2,3,4,7,8-HxCDF	3.87e5	0.50	NO	1.00	10.000	33.603	33.60	0.989	0.989	61.649	30.8	0.358	
29	29 13C-1,2,3,6,7,8-HxCDF	4.49e5	0.50	NO	1.14	10.000	33.726	33.72	0.992	0.992	63.179	31.6	0.317	
30	30 13C-2,3,4,6,7,8-HxCDF	3.97e5	0.52	NO	1.02	10.000	34.293	34.28	1.009	1.009	62.104	31.1	0.352	
31	31 13C-1,2,3,7,8,9-HxCDF	3.19e5	0.48	NO	0.845	10.000	35.184	35.17	1.035	1.035	60.491	30.2	0.426	



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Printed: Friday, May 01, 2020 1:12:38 PM Pacific Daylight Time

Name: 200501R1\_2, Date: 01-May-2020, Time: 09:45:38, ID: B0D0264-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.30e5	0.41	NO	0.771	10.000	36.913	36.90	1.086	1.086	68.606	34.3	0.369	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.90e5	0.42	NO	0.482	10.000	38.922	38.90	1.145	1.145	63.206	31.6	0.590	
34	34 13C-OCDF	4.22e5	0.86	NO	0.669	10.000	41.491	41.48	1.221	1.221	101.03	25.3	0.220	
35	35 37Cl-2,3,7,8-TCDD	2.00e5			1.10	10.000	26.015	26.00	1.028	1.027	27.368	34.2	0.0363	
36	36 13C-1,2,3,4-TCDD	1.33e6	0.82	NO	1.00	10.000	25.350	25.32	1.000	1.000	200.00	100	0.227	
37	37 13C-1,2,3,4-TCDF	2.07e6	0.79	NO	1.00	10.000	23.560	23.52	1.000	1.000	200.00	100	0.355	
38	38 13C-1,2,3,4,6,9-HxCDF	1.25e6	0.51	NO	1.00	10.000	34.000	33.98	1.000	1.000	200.00	100	0.360	

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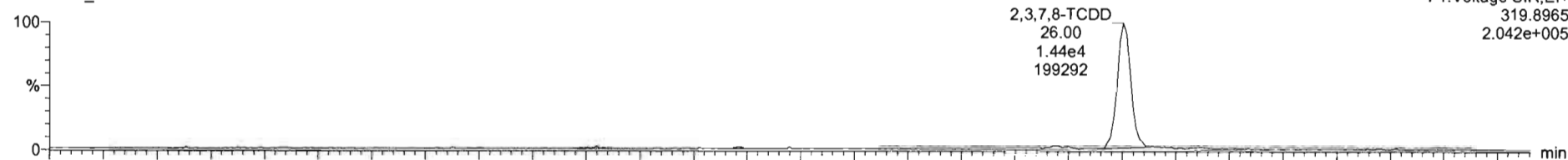
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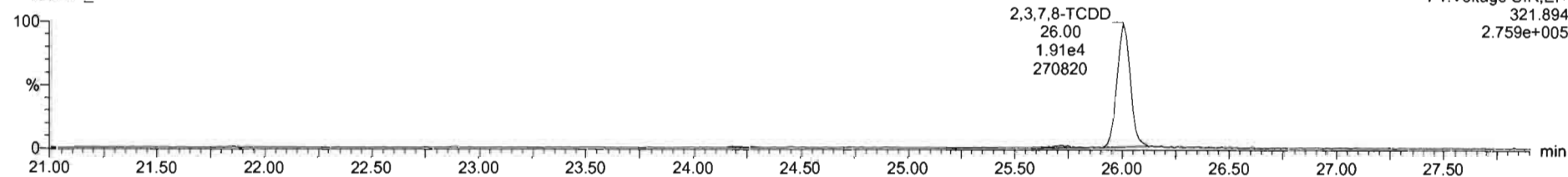
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**2,3,7,8-TCDD**

200501R1\_2

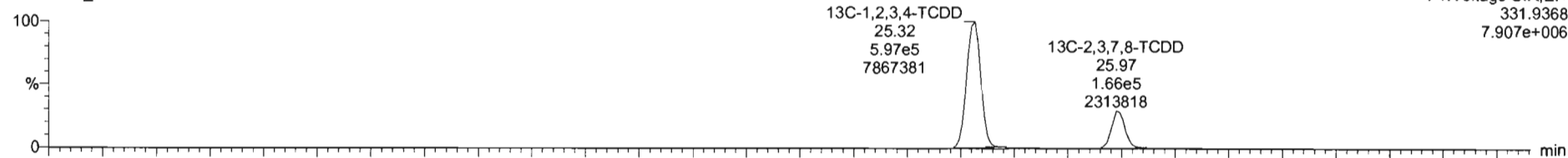


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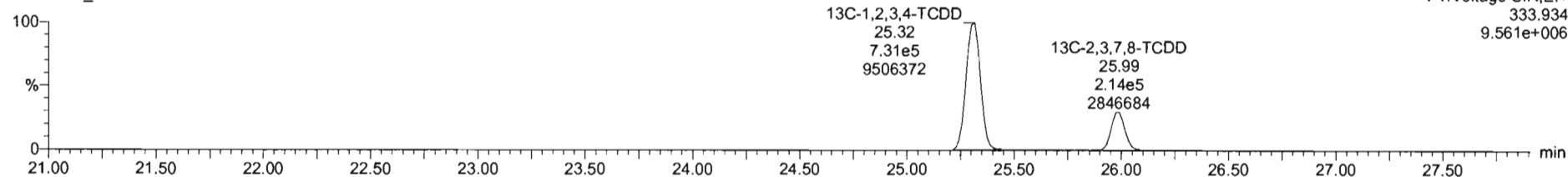


**13C-2,3,7,8-TCDD**

200501R1\_2



200501R1\_2



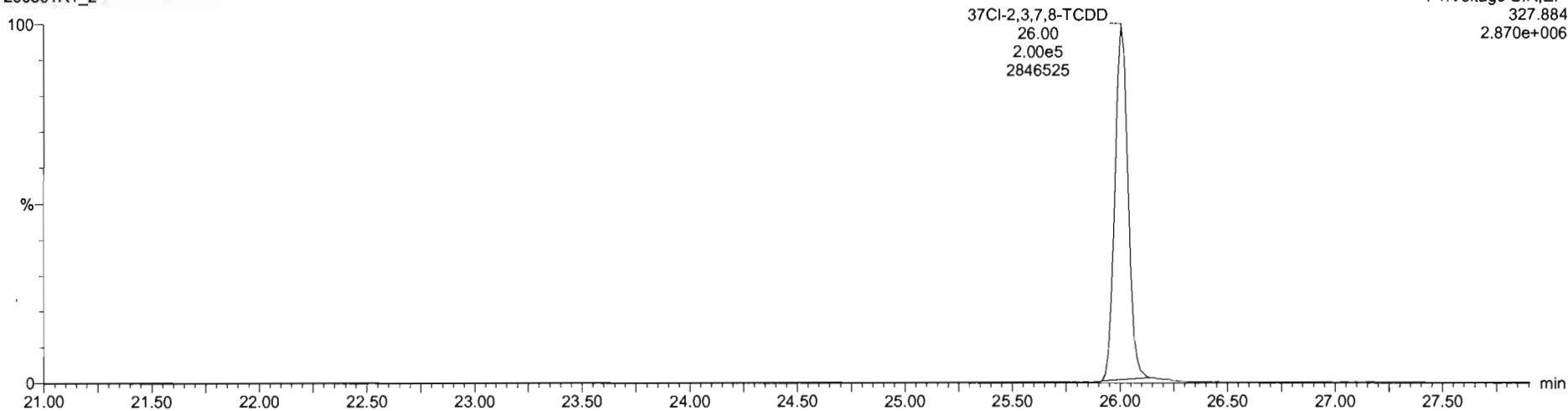
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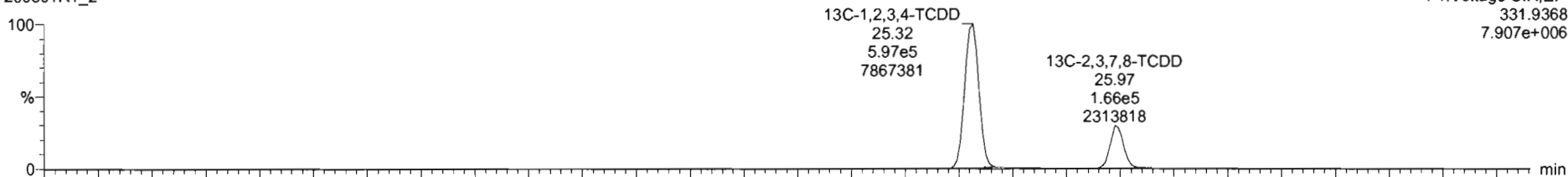
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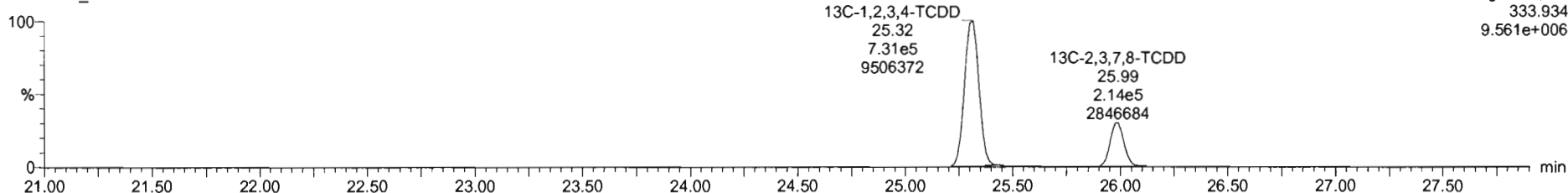


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200501R1\_2



200501R1\_2



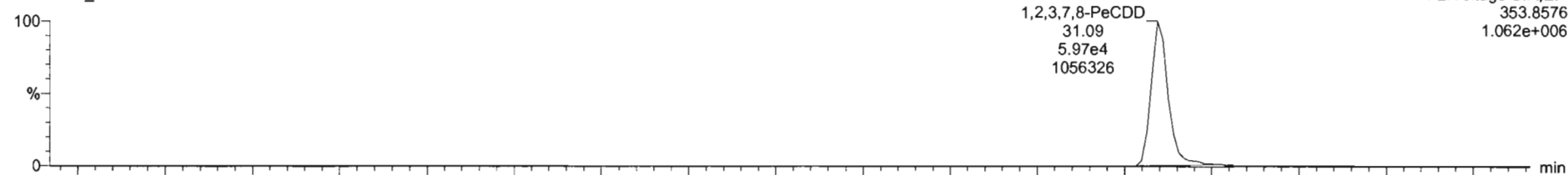
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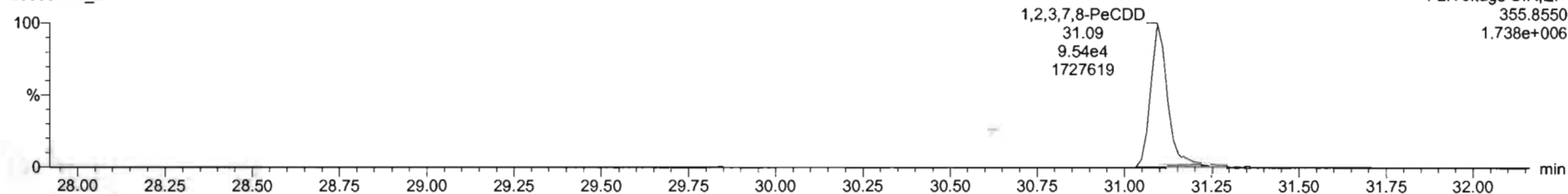
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**1,2,3,7,8-PeCDD**

200501R1\_2

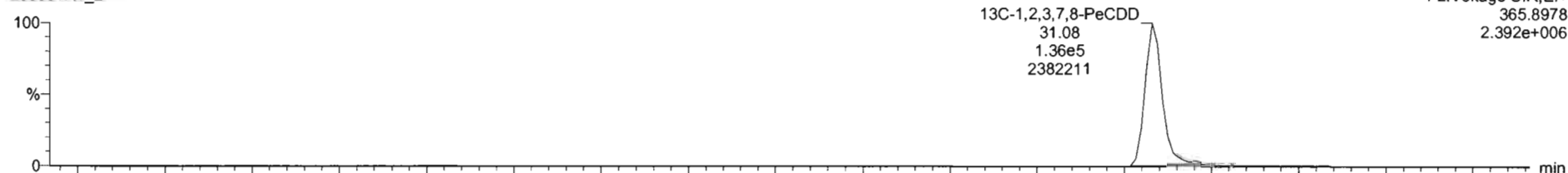


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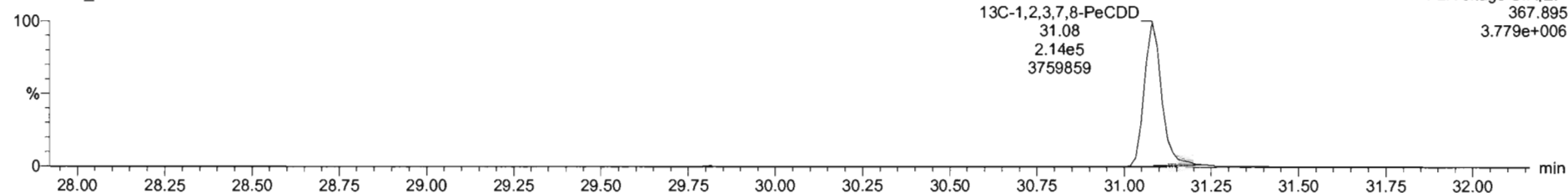


**13C-1,2,3,7,8-PeCDD**

200501R1\_2



200501R1\_2



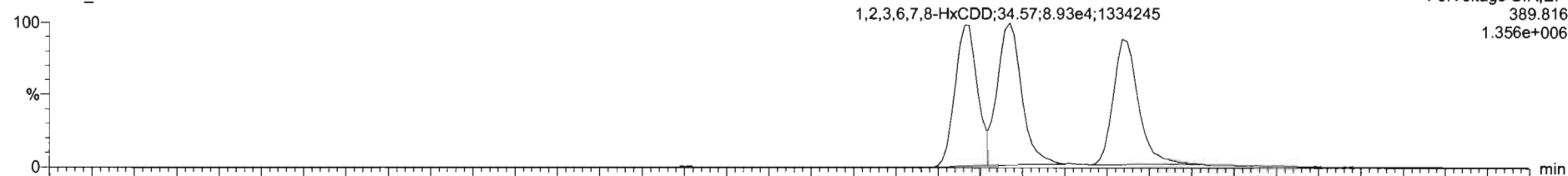
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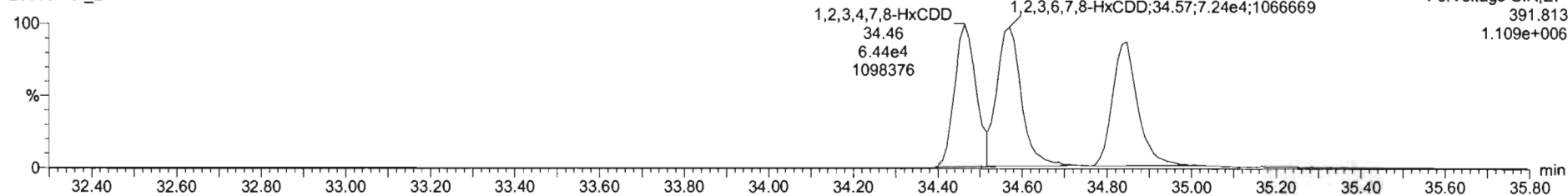
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**1,2,3,4,7,8-HxCDD**

200501R1\_2

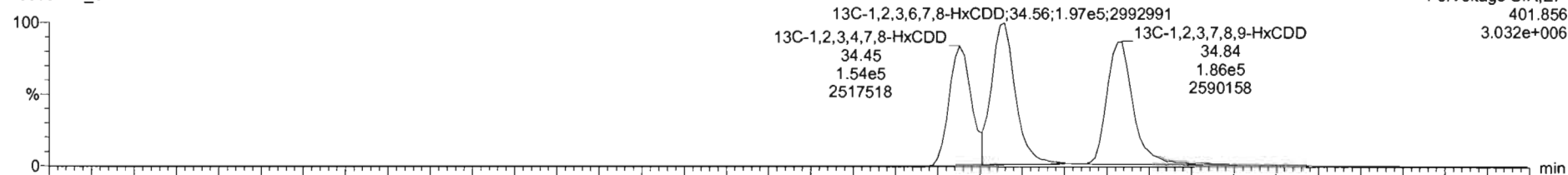


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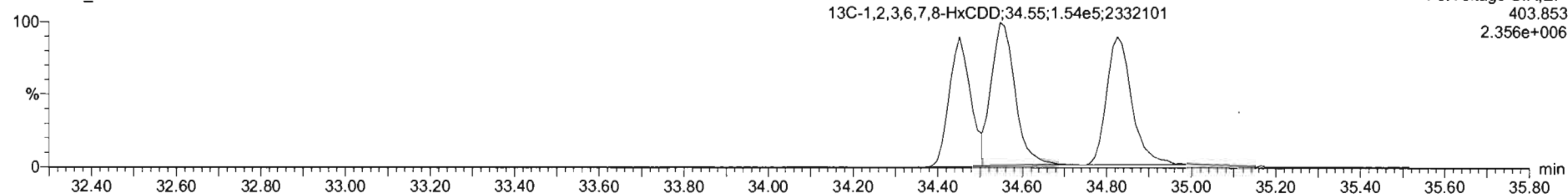


**13C-1,2,3,4,7,8-HxCDD**

200501R1\_2



200501R1\_2



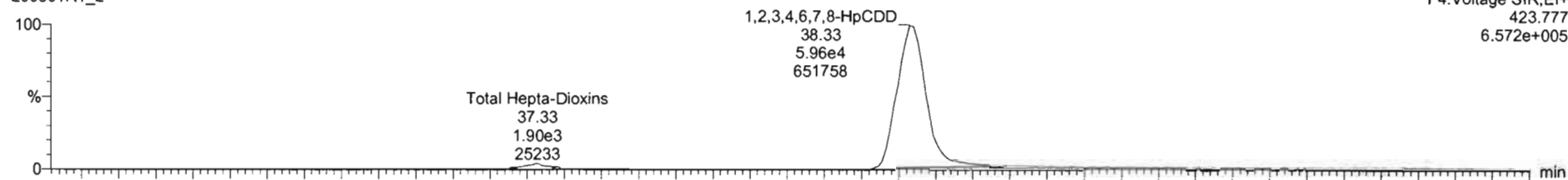
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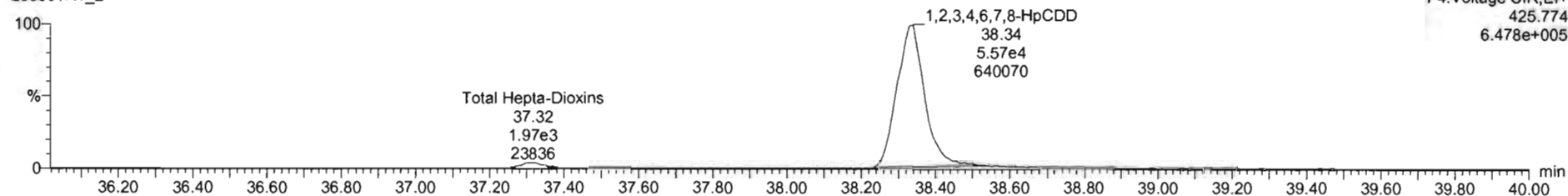
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**1,2,3,4,6,7,8-HpCDD**

200501R1\_2

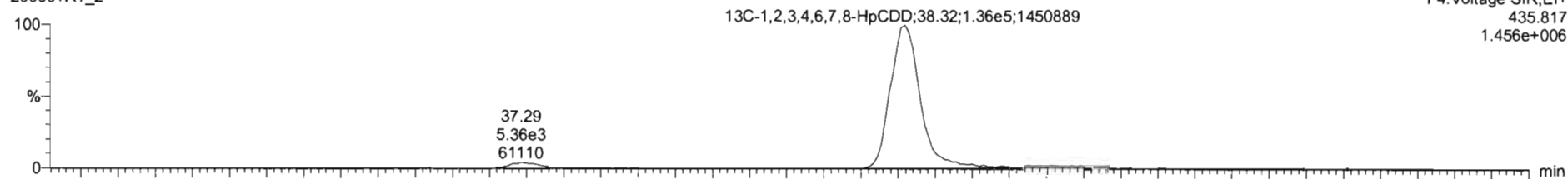


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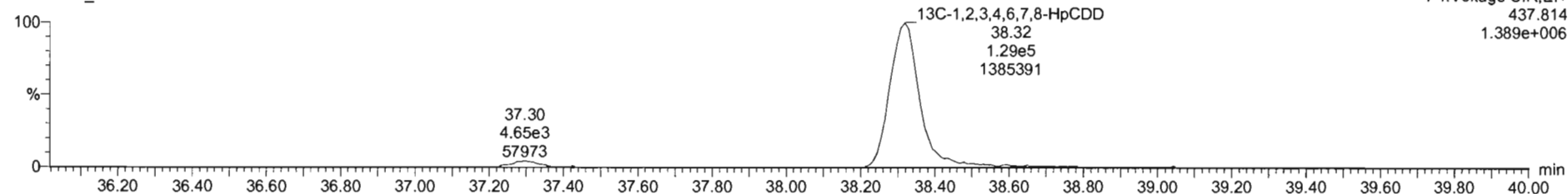


**13C-1,2,3,4,6,7,8-HpCDD**

200501R1\_2



200501R1\_2



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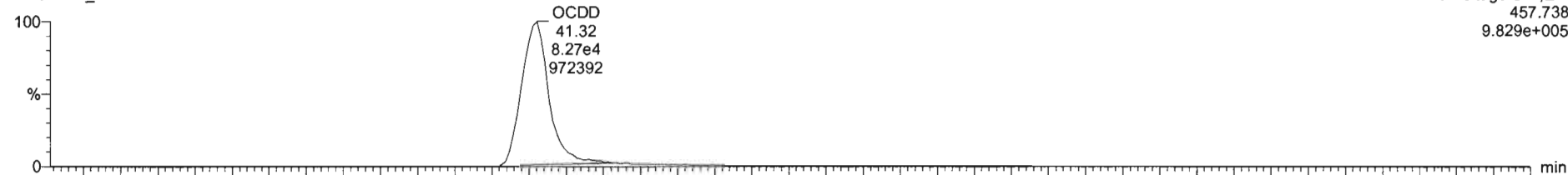
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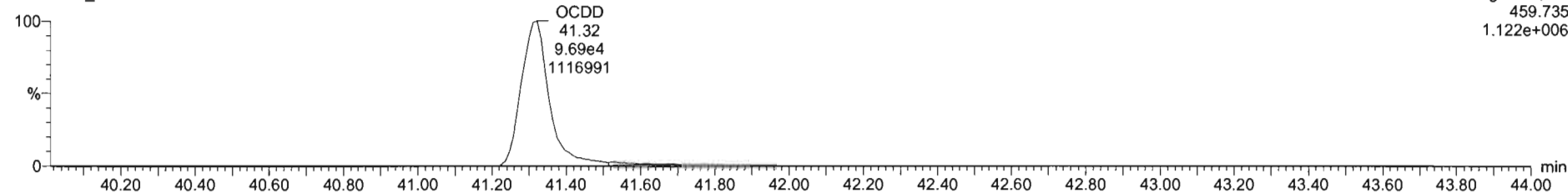
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**OCDD**

200501R1\_2

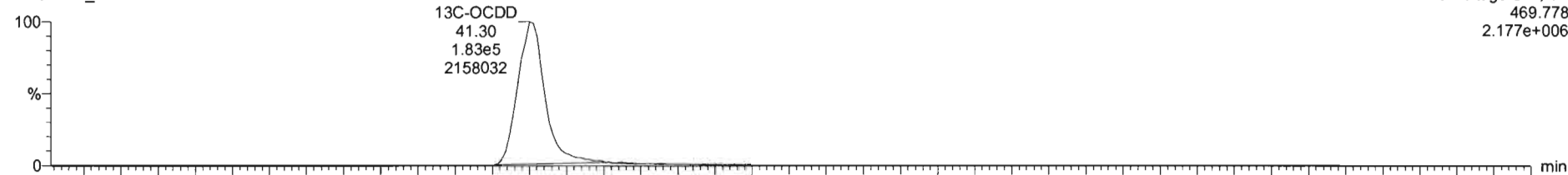


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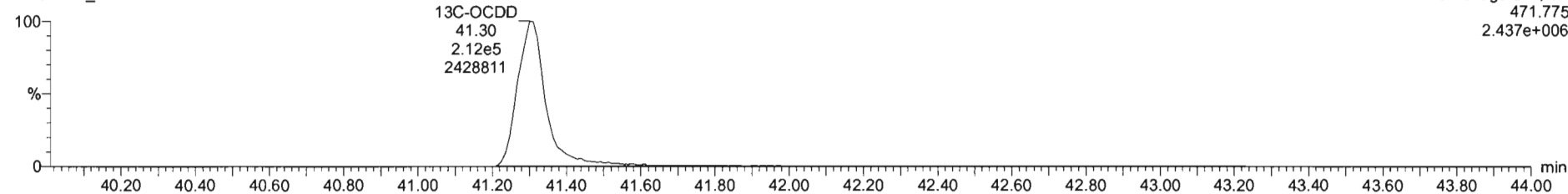


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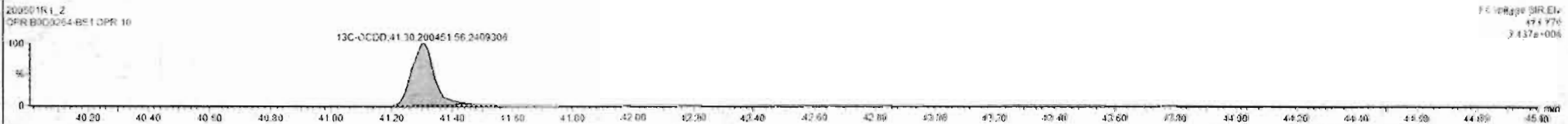
200501R1\_2



200501R1\_2



SI	Name	Disp	RA	obj	RNF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.35e4	0.76	NO	0.95	10.000	26.00	1.001	18.9	0.263	10.0	
2	1,2,3,7,8-PeCDD	1.55e5	0.63	NO	0.94	10.000	31.00	1.000	94.0	0.442	94.0	
3	1,2,3,4,7,8-HxCDD	1.45e5	1.25	NO	1.00	10.000	34.46	1.000	95.4	0.460	95.4	
4	1,2,3,6,7,8-HxCDD	1.02e5	1.23	NO	0.91	10.000	34.57	1.000	101	0.451	101	
5	1,2,3,7,8,9-HxCDD	1.47e5	1.23	NO	0.91	10.000	34.03	1.000	92.3	0.428	92.3	
6	1,2,3,4,6,7,8-HpCDD	1.15e5	1.07	NO	0.95	10.000	38.33	1.000	97.2	0.404	97.2	
7	OCDD	1.77e5	0.58	NO	0.93	10.000	41.32	1.001	188	0.580	188	
8	2,3,7,8-TCDF	3.54e4	0.76	NO	0.79	10.000	25.00	1.001	18.9	0.221	18.9	
9	1,2,3,7,8-PeCDF	2.18e5	1.50	NO	0.91	10.000	29.78	1.001	99.3	0.506	99.3	
10	2,3,4,7,8-PeCDF	2.35e5	1.51	NO	0.97	10.000	30.77	1.001	97.5	0.508	97.5	
11	1,2,3,4,7,8-HxCDF	1.78e5	1.21	NO	0.88	10.000	32.61	1.000	104	0.455	104	
12	1,2,3,6,7,8-HxCDF	1.96e5	1.24	NO	0.87	10.000	33.73	1.000	99.9	0.440	99.9	
13	2,3,4,6,7,8-HxCDF	1.84e5	1.22	NO	0.92	10.000	34.29	1.000	100	0.490	100	
14	1,2,3,7,8,9-HxCDF	1.98e5	1.20	NO	0.90	10.000	35.15	1.001	98.5	0.512	98.5	
15	1,2,3,4,6,7,8-HpCDF	1.44e5	0.99	NO	0.87	10.000	36.91	1.000	100	0.543	100	
16	1,2,3,4,7,8,9-HoCDF	9.50e4	0.95	NO	1.01	10.000	38.92	1.000	98.6	0.504	98.6	
17	OCDF	1.77e5	0.68	NO	0.80	10.000	41.49	1.000	209	0.717	209	





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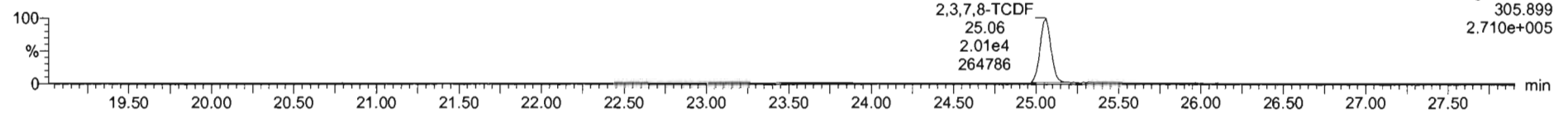
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**2,3,7,8-TCDF**

200501R1\_2

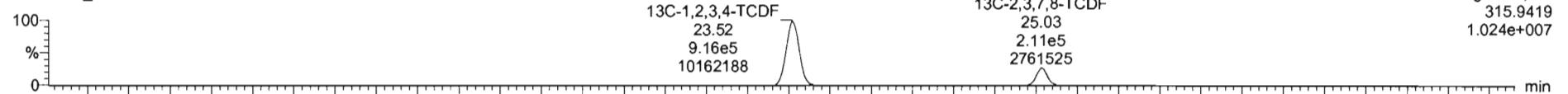


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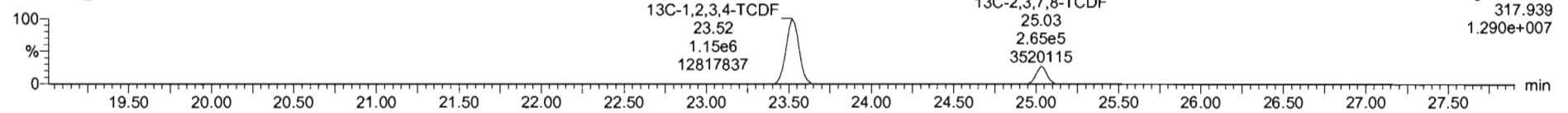


**13C-2,3,7,8-TCDF**

200501R1\_2

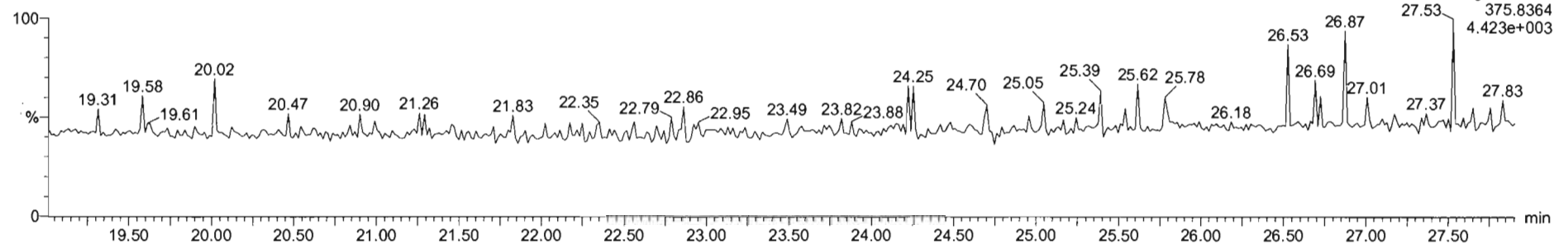


200501R1\_2



**DPE1**

200501R1\_2



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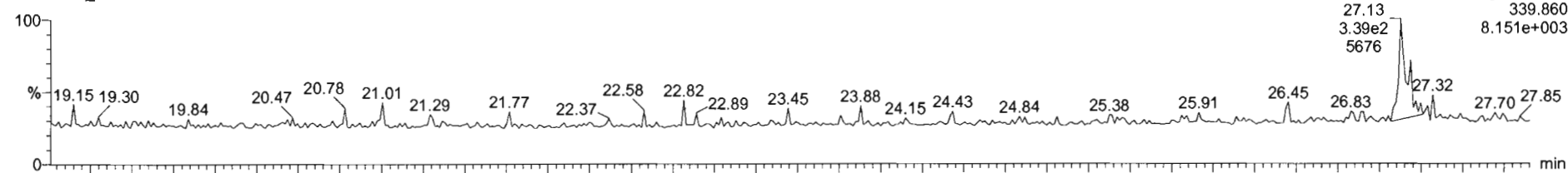
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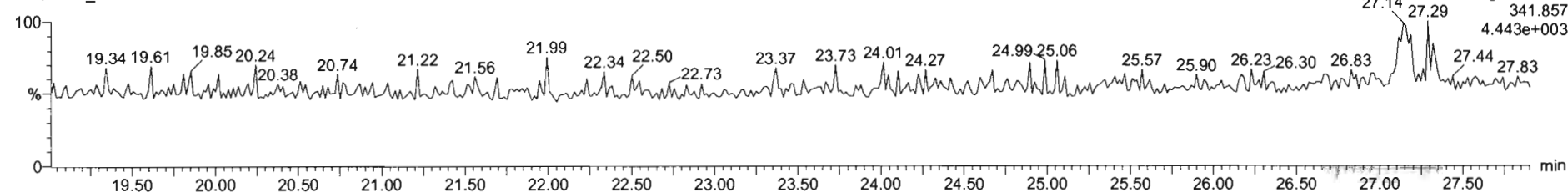
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200501R1\_2

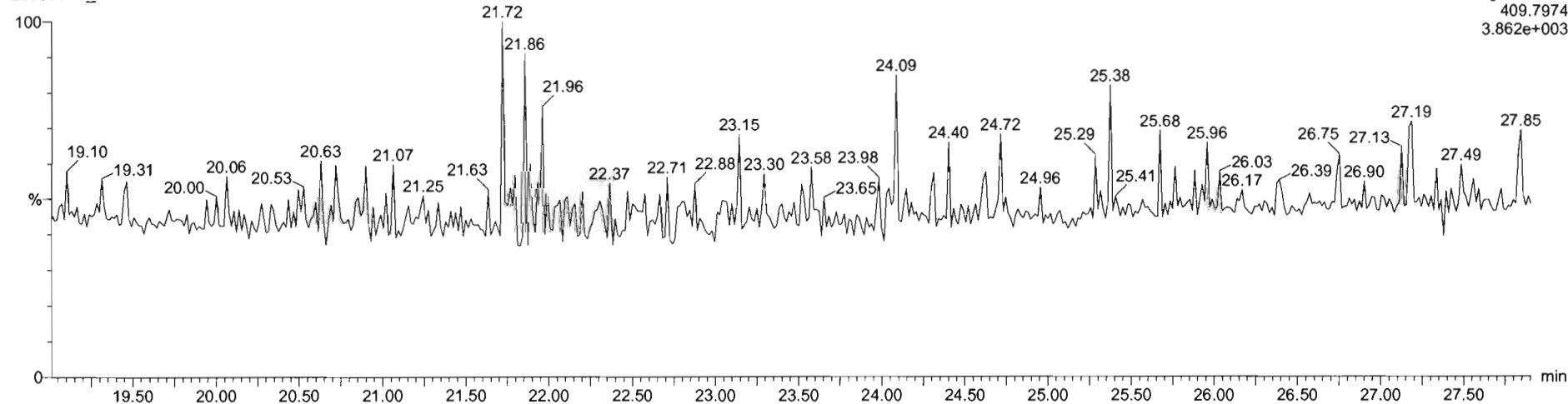


200501R1\_2



DPE6

200501R1\_2



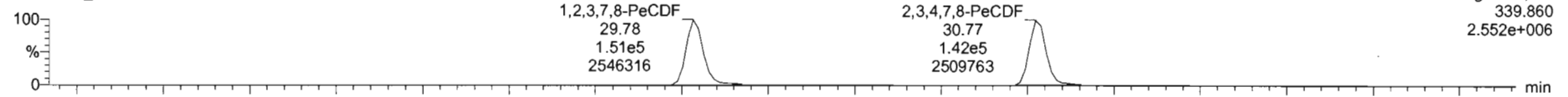
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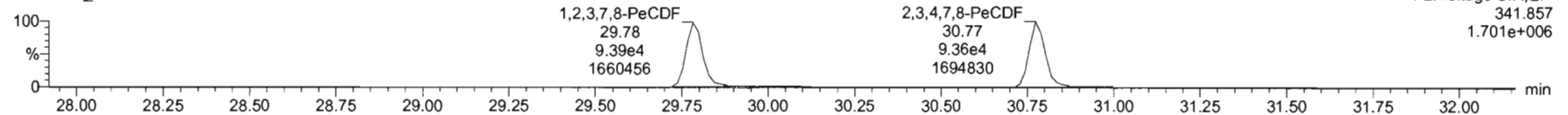
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**1,2,3,7,8-PeCDF**

200501R1\_2

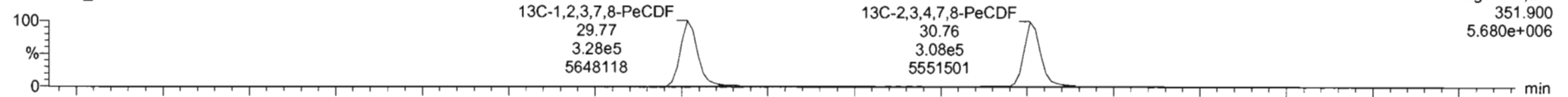


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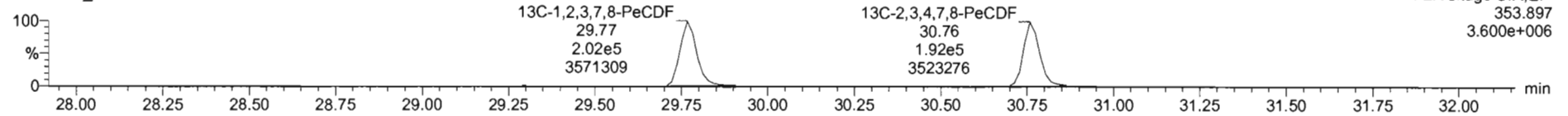


**13C-1,2,3,7,8-PeCDF**

200501R1\_2

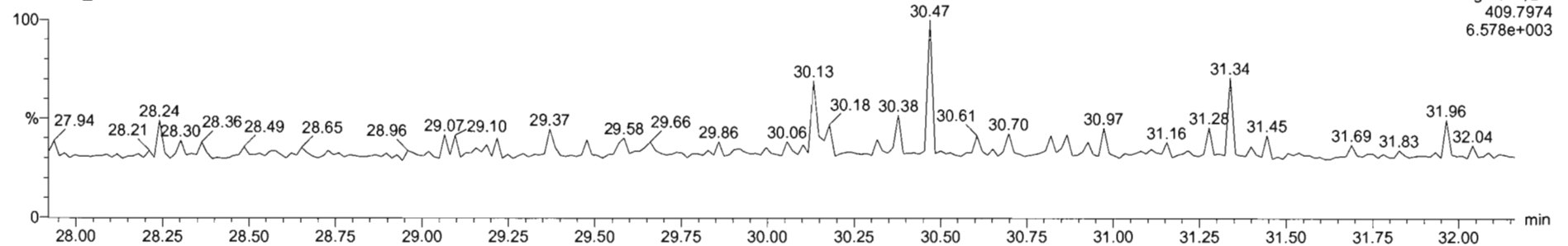


200501R1\_2



**DPE2**

200501R1\_2







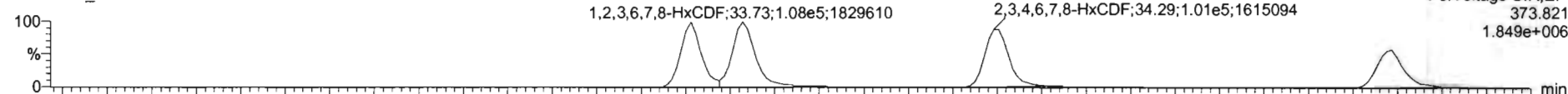
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Printed: Friday, May 01, 2020 1:09:05 PM Pacific Daylight Time

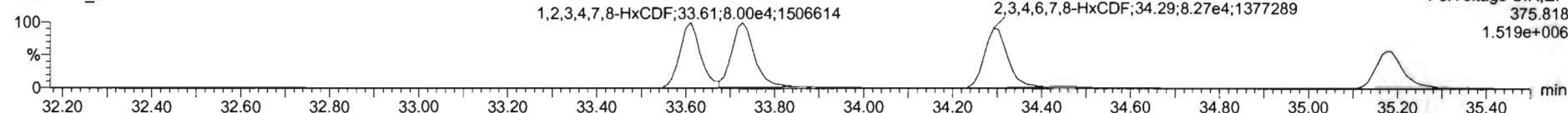
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**1,2,3,4,7,8-HxCDF**

200501R1\_2

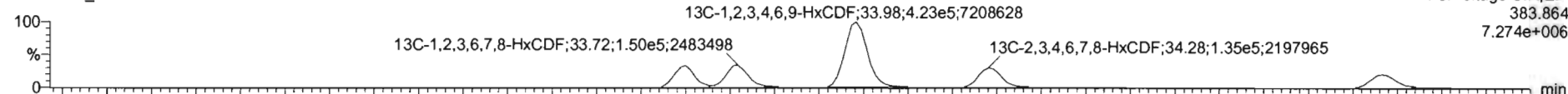


200501R1\_2

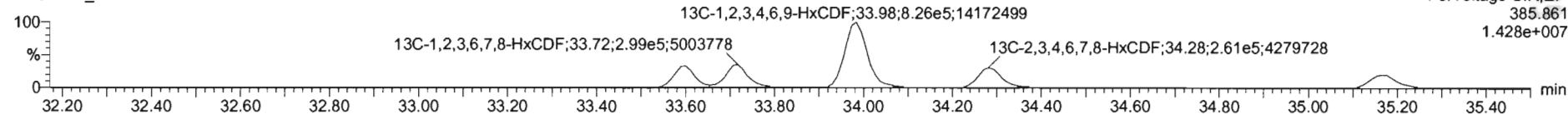


**13C-1,2,3,4,7,8-HxCDF**

200501R1\_2

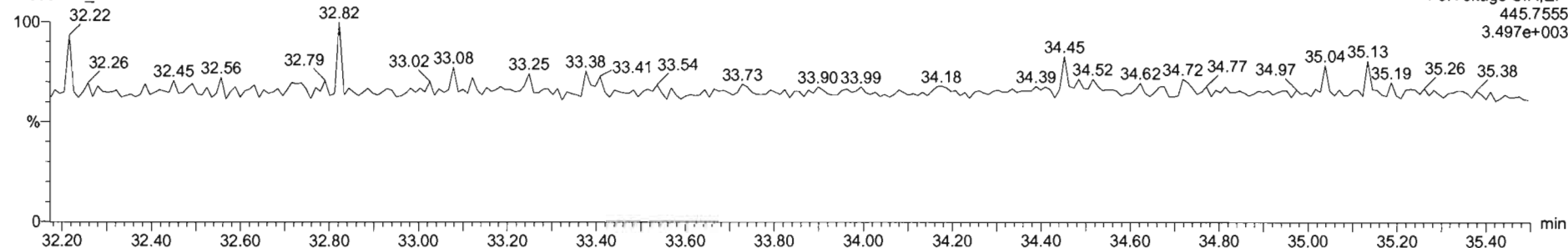


200501R1\_2



**DPE3**

200501R1\_2



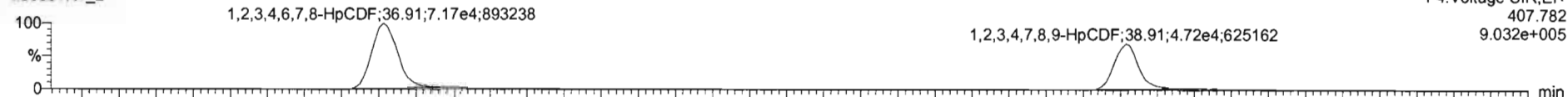
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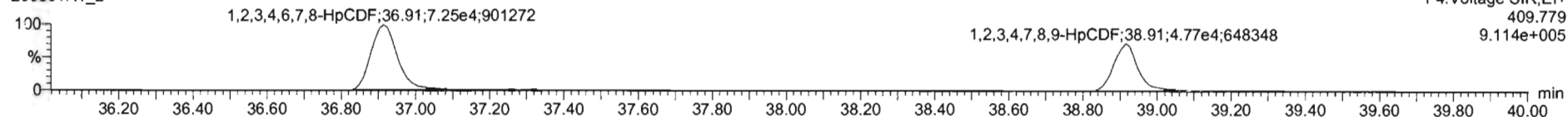
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**1,2,3,4,6,7,8-HpCDF**

200501R1\_2



200501R1\_2

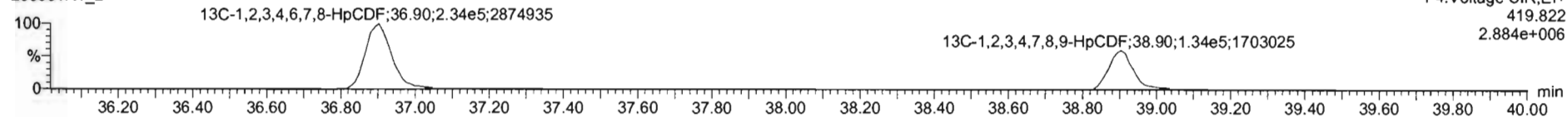


**13C-1,2,3,4,6,7,8-HpCDF**

200501R1\_2

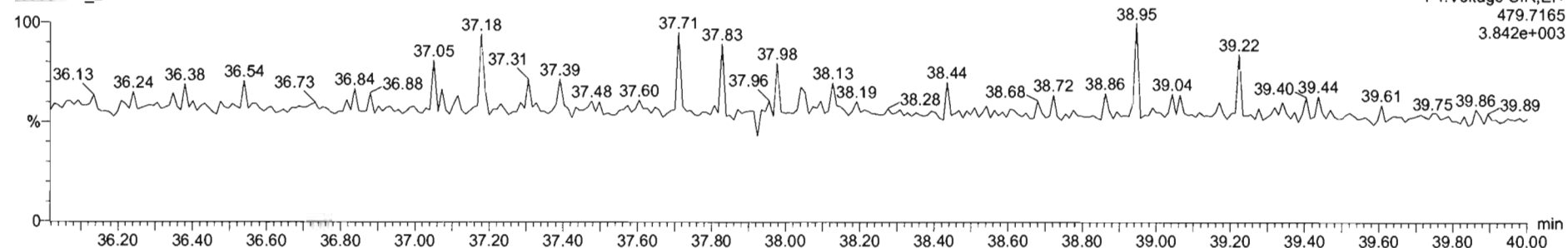


200501R1\_2



**DPE4**

200501R1\_2

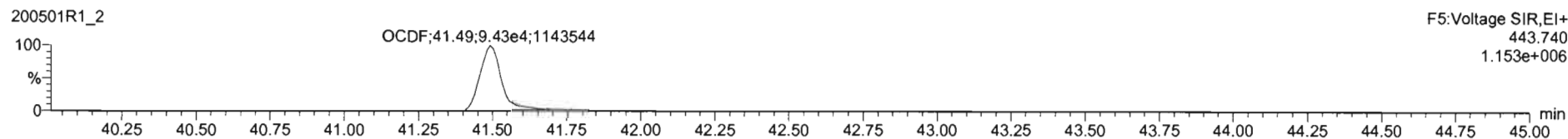
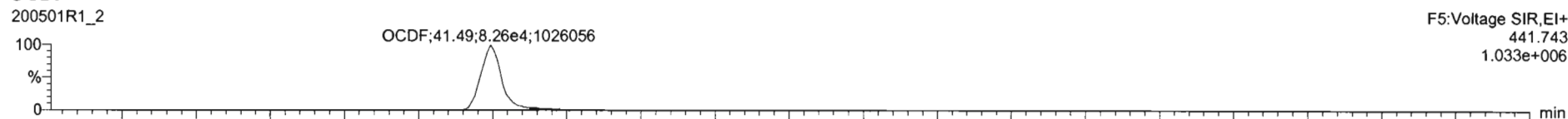


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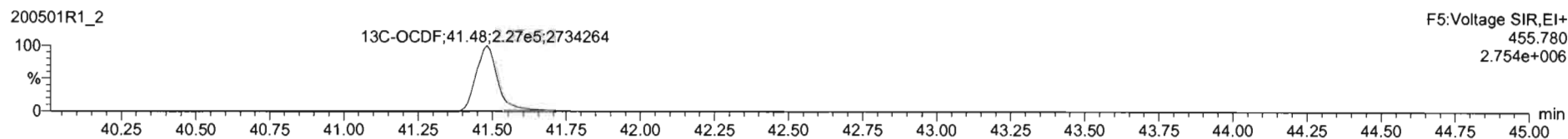
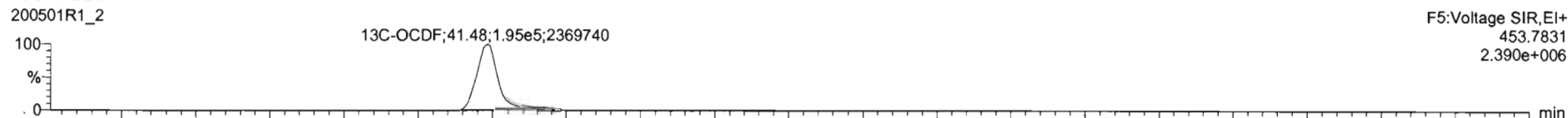
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Printed: Friday, May 01, 2020 1:09:05 PM Pacific Daylight Time

Name: 200501R1\_2, Date: 01-May-2020, Time: 09:45:38, ID: B0D0264-BS1 OPR 10, Description: OPR

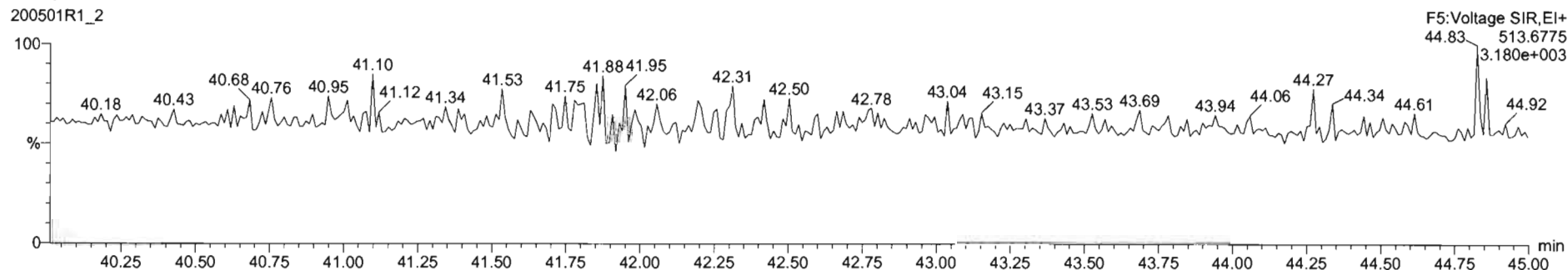
OCDF



13C-OCDF



DPE5

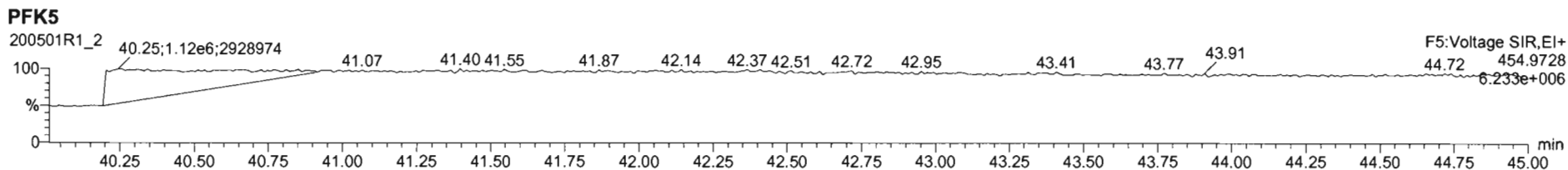
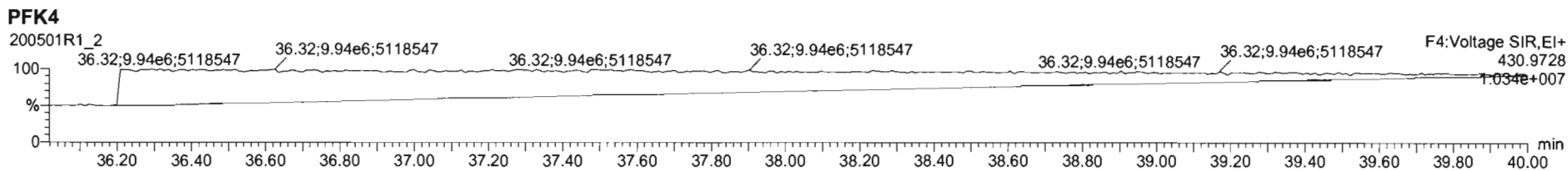
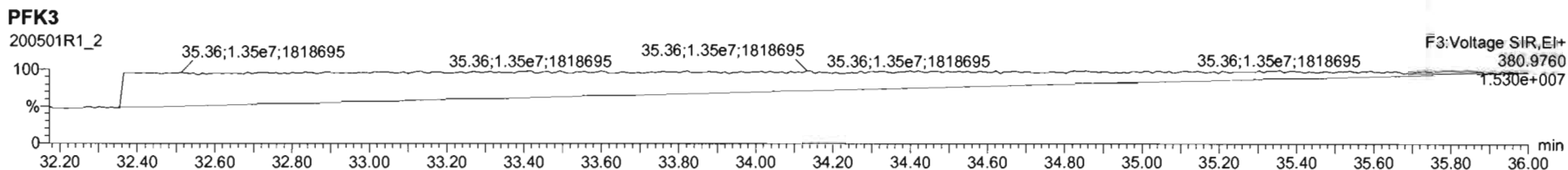
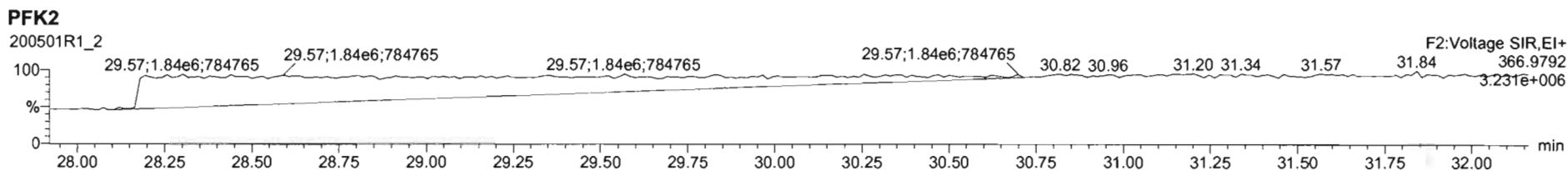
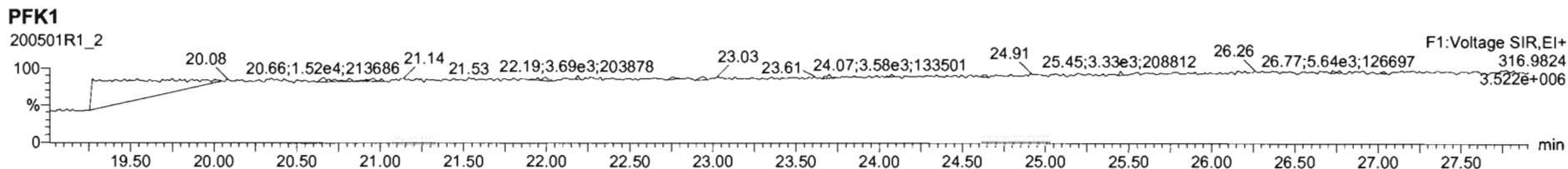




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Last Altered: Friday, May 01, 2020 1:08:54 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:09:05 PM Pacific Daylight Time

Name: 200501R1\_2, Date: 01-May-2020, Time: 09:45:38, ID: B0D0264-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

*GRB 05/06/2020*

*CT 05/07/2020*

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

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

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.000	25.976		1.001				0.0565	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.086		1.001				0.0467	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.452		1.000				0.0574	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.537		1.000				0.0557	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.824		1.000				0.0732	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.319		1.000				0.109	
7	7 OCDD	2.43e2	0.77	NO	0.933	10.000	41.300	41.32	1.000	1.001	0.21915		0.129	0.219
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.027		1.001				0.0345	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.773		1.001				0.0456	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.774		1.001				0.0404	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.579		1.000				0.0354	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.706		1.000				0.0326	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.305		1.001				0.0404	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.000	35.155		1.000				0.0862	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	36.928		1.001				0.0697	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.894		1.000				0.116	
17	17 OCDF			NO	0.802	10.000	41.481		1.000				0.152	
18	18 13C-2,3,7,8-TCDD	9.53e5	0.78	NO	1.16	10.000	25.938	25.94	1.026	1.027	160.09	80.0	0.270	
19	19 13C-1,2,3,7,8-PeCDD	8.03e5	0.64	NO	0.847	10.000	31.013	31.06	1.227	1.229	184.55	92.3	0.396	
20	20 13C-1,2,3,4,7,8-HxCDD	5.10e5	1.28	NO	0.750	10.000	34.452	34.44	1.014	1.014	186.28	93.1	0.685	
21	21 13C-1,2,3,6,7,8-HxCDD	6.84e5	1.27	NO	0.963	10.000	34.564	34.54	1.017	1.017	194.65	97.3	0.533	
22	22 13C-1,2,3,7,8,9-HxCDD	5.43e5	1.23	NO	0.838	10.000	34.833	34.81	1.025	1.025	177.61	88.8	0.613	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.73e5	1.06	NO	0.641	10.000	38.318	38.31	1.128	1.128	159.50	79.7	0.519	
24	24 13C-OCDD	4.76e5	0.89	NO	0.586	10.000	41.308	41.30	1.216	1.216	222.24	55.6	0.414	
25	25 13C-2,3,7,8-TCDF	1.17e6	0.77	NO	1.03	10.000	25.001	25.00	0.989	0.989	147.89	73.9	0.309	
26	26 13C-1,2,3,7,8-PeCDF	1.16e6	1.57	NO	0.845	10.000	29.706	29.75	1.176	1.177	178.79	89.4	0.627	
27	27 13C-2,3,4,7,8-PeCDF	1.17e6	1.59	NO	0.814	10.000	30.694	30.74	1.215	1.217	186.75	93.4	0.651	
28	28 13C-1,2,3,4,7,8-HxCDF	7.39e5	0.50	NO	1.00	10.000	33.593	33.58	0.989	0.988	201.55	101	0.608	
29	29 13C-1,2,3,6,7,8-HxCDF	9.16e5	0.50	NO	1.14	10.000	33.715	33.70	0.992	0.992	220.83	110	0.538	
30	30 13C-2,3,4,6,7,8-HxCDF	7.39e5	0.53	NO	1.02	10.000	34.282	34.27	1.009	1.009	197.99	99.0	0.598	
31	31 13C-1,2,3,7,8,9-HxCDF	4.27e5	0.51	NO	0.845	10.000	35.172	35.15	1.035	1.035	138.32	69.2	0.724	

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	4.97e5	0.44	NO	0.771	10.000	36.901	36.89	1.086	1.086	176.72	88.4	0.734	
33	13C-1,2,3,4,7,8,9-HpCDF	2.36e5	0.41	NO	0.482	10.000	38.909	38.89	1.145	1.145	133.96	67.0	1.17	
34	13C-OCDF	4.60e5	0.87	NO	0.669	10.000	41.478	41.48	1.221	1.221	188.45	47.1	0.376	
35	37Cl-2,3,7,8-TCDD	3.59e5			1.10	10.000	25.968	25.98	1.028	1.028	63.728	79.7	0.0794	
36	13C-1,2,3,4-TCDD	1.03e6	0.81	NO	1.00	10.000	25.350	25.27	1.000	1.000	200.00	100	0.313	
37	13C-1,2,3,4-TCDF	1.53e6	0.79	NO	1.00	10.000	23.560	23.49	1.000	1.000	200.00	100	0.319	
38	13C-1,2,3,4,6,9-HxCDF	7.30e5	0.51	NO	1.00	10.000	34.000	33.97	1.000	1.000	200.00	100	0.611	
39	Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0345	
40	Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0235	
41	Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0318	
42	Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0549	
43	Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0153	
44	1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.0107	
45	Total Penta-Furans				0.910	10.000	29.275		0.000				0.0175	
46	Total Hexa-Furans				0.922	10.000	33.555		0.000				0.0228	
47	Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0465	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

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

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

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

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

**Hepta-Dioxins**

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

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

3

5

Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

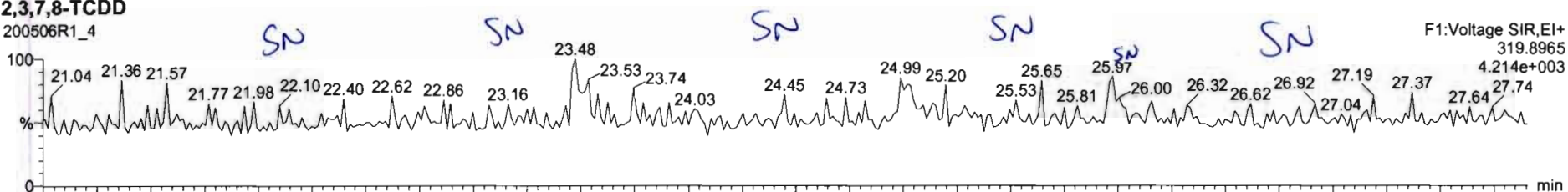
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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

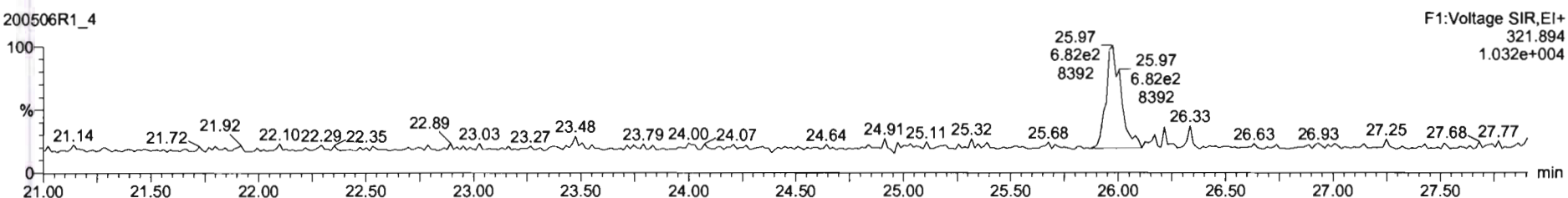
2,3,7,8-TCDD

200506R1\_4



F1:Voltage SIR,EI+  
319.8965  
4.214e+003

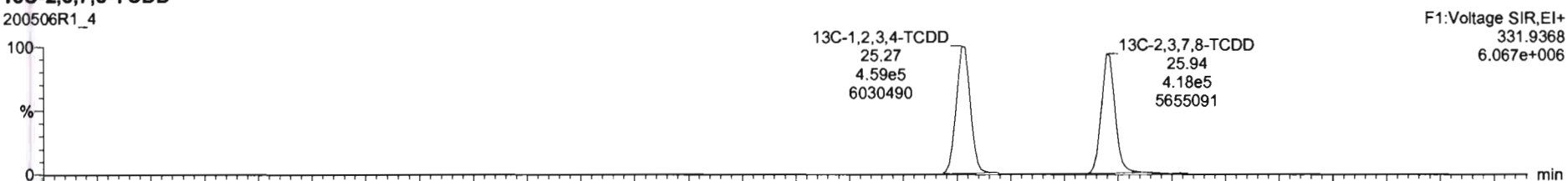
200506R1\_4



F1:Voltage SIR,EI+  
321.894  
1.032e+004

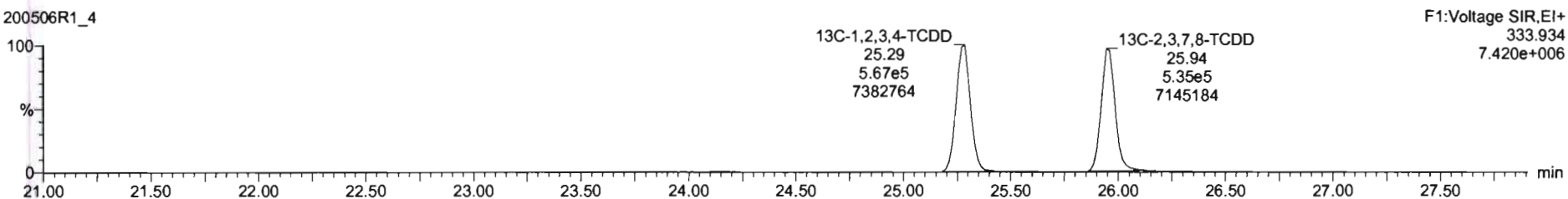
13C-2,3,7,8-TCDD

200506R1\_4



F1:Voltage SIR,EI+  
331.9368  
6.067e+006

200506R1\_4



F1:Voltage SIR,EI+  
333.934  
7.420e+006

Dataset: Untitled

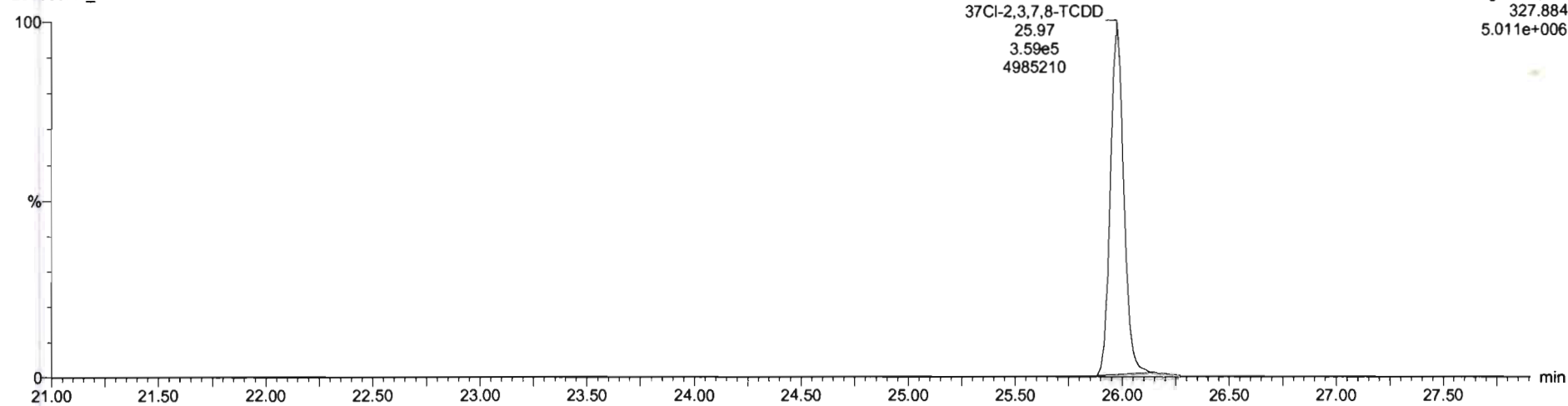
Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

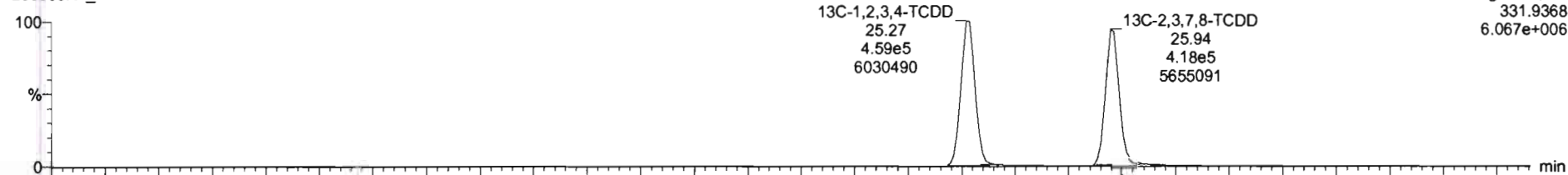
**37Cl-2,3,7,8-TCDD**

200506R1\_4

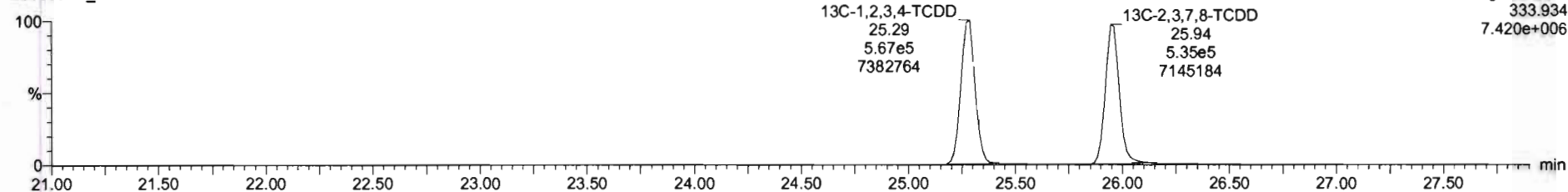


**13C-1,2,3,4-TCDD**

200506R1\_4



200506R1\_4



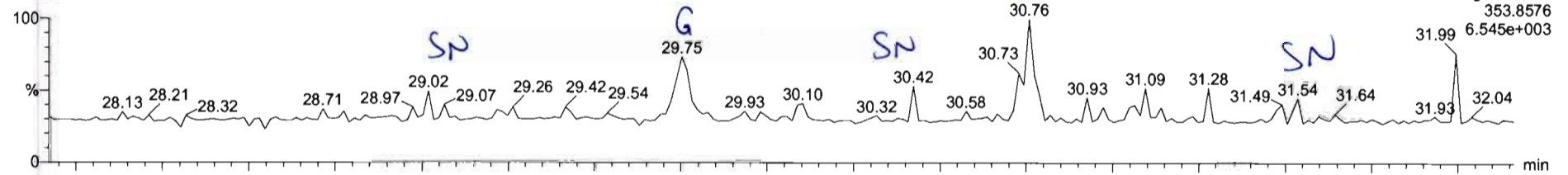
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Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

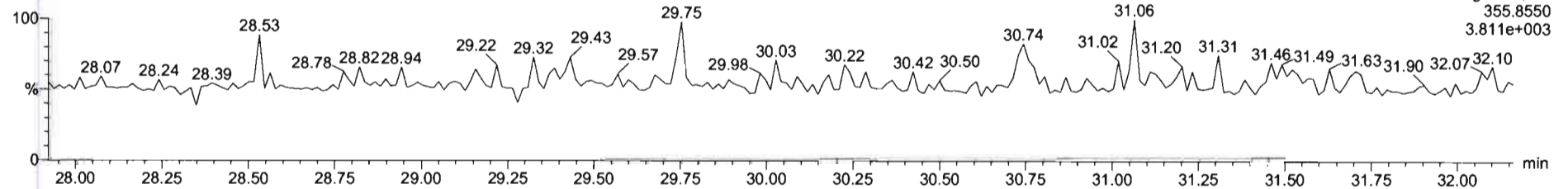
Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200506R1\_4

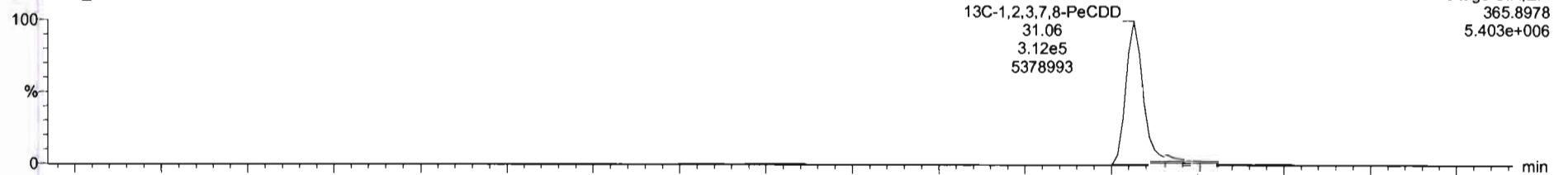


200506R1\_4

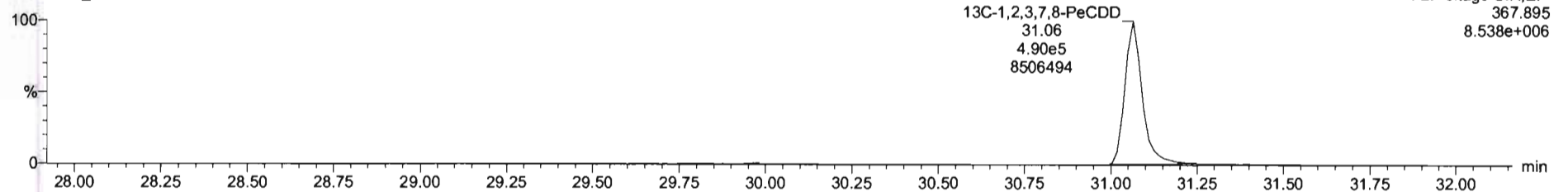


13C-1,2,3,7,8-PeCDD

200506R1\_4



200506R1\_4





Dataset: Untitled

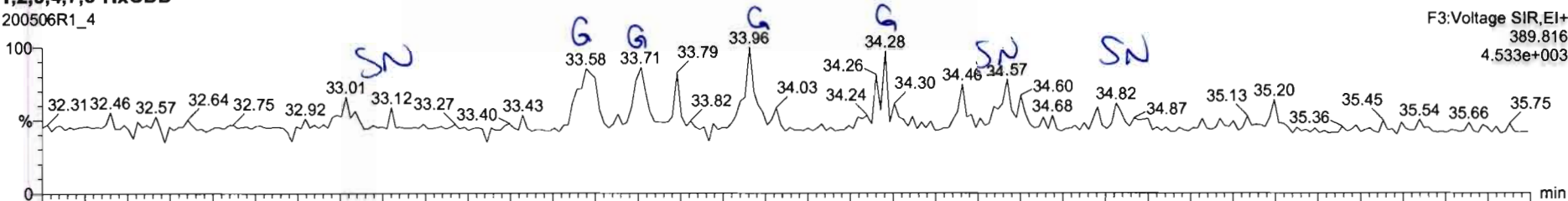
Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

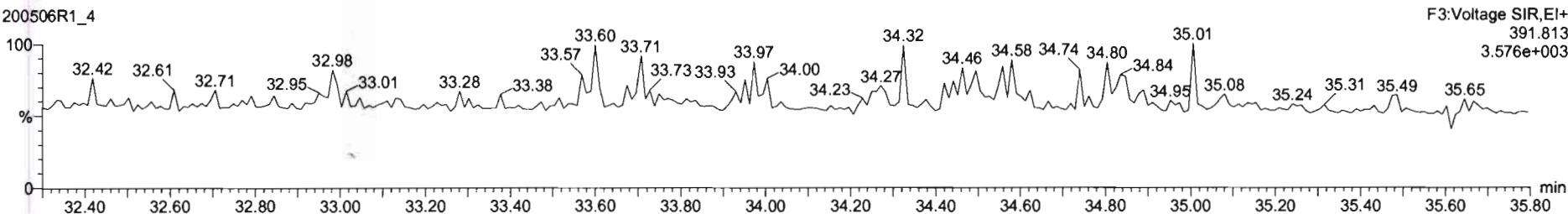
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1,2,3,4,7,8-HxCDD

200506R1\_4

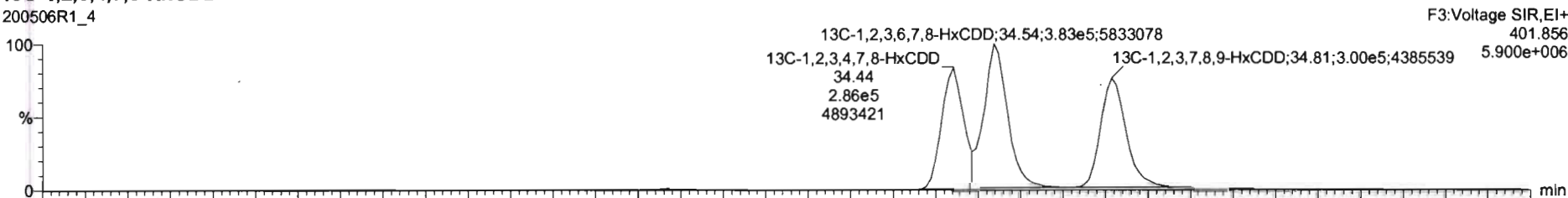


200506R1\_4

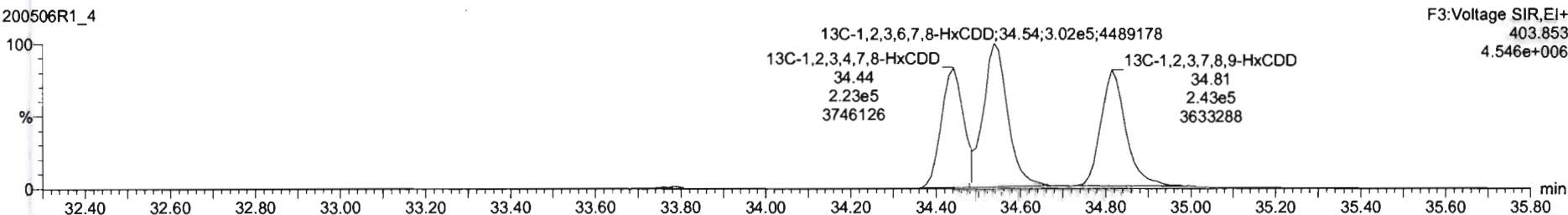


13C-1,2,3,4,7,8-HxCDD

200506R1\_4



200506R1\_4



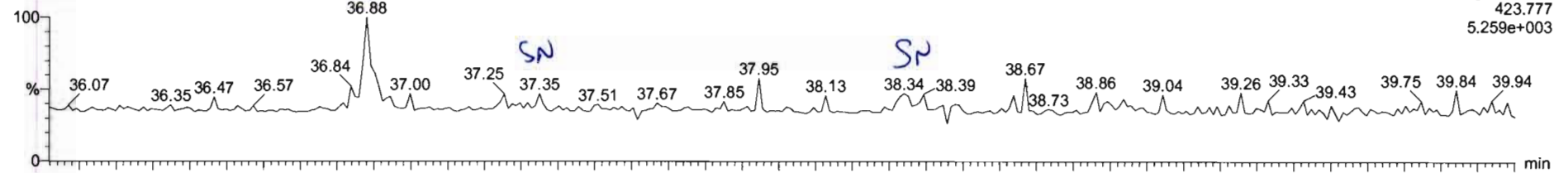
Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

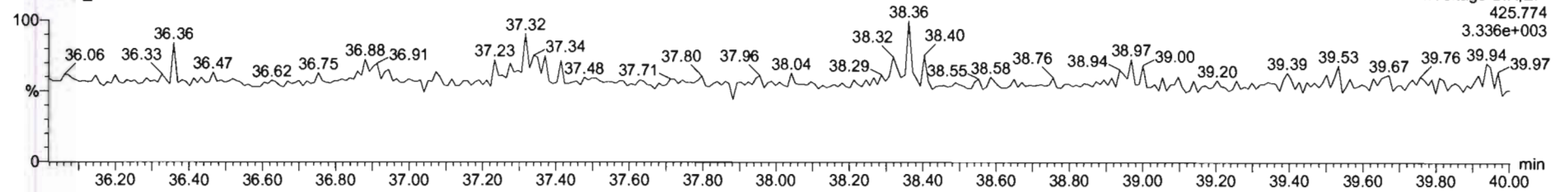
Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

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

200506R1\_4

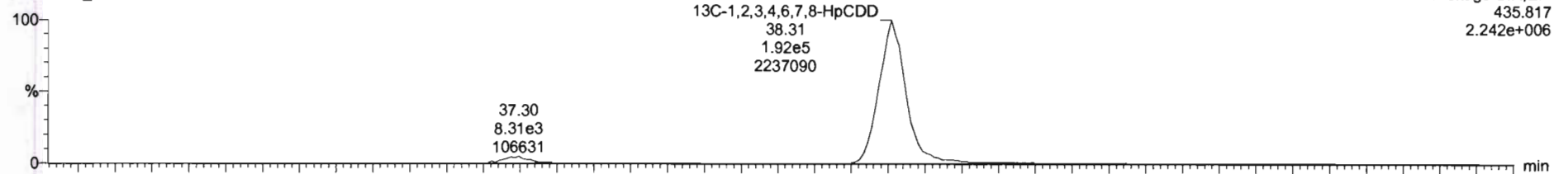


200506R1\_4

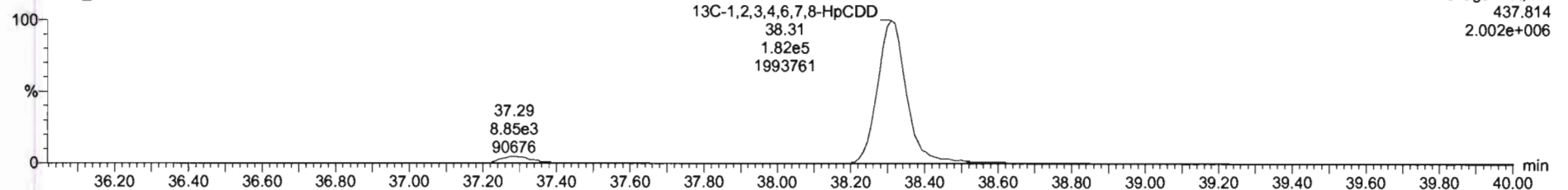


13C-1,2,3,4,6,7,8-HpCDD

200506R1\_4



200506R1\_4

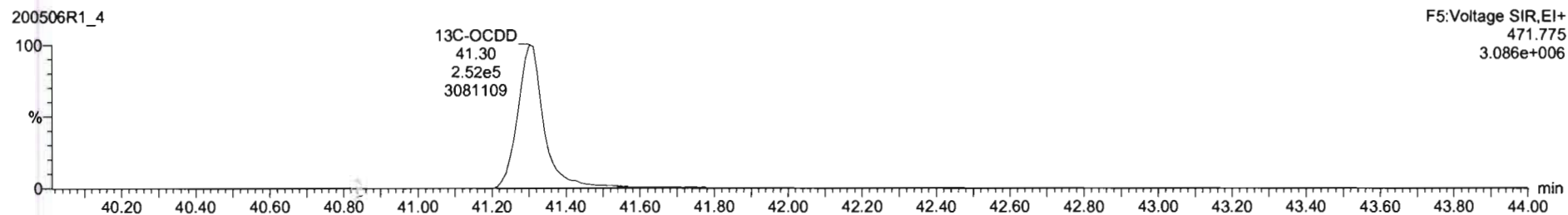
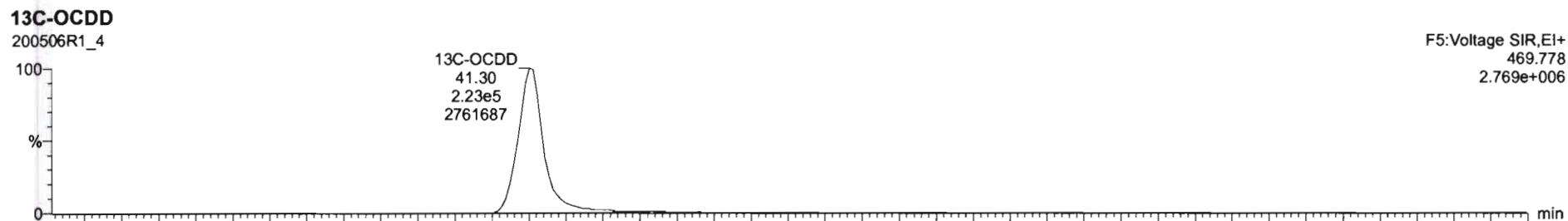
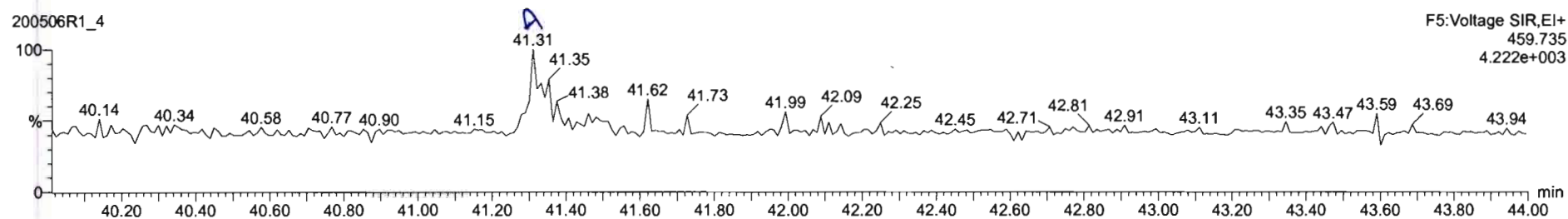
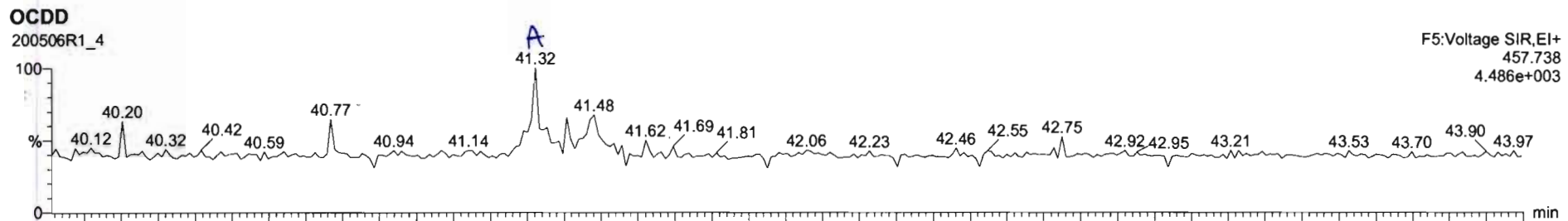


Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

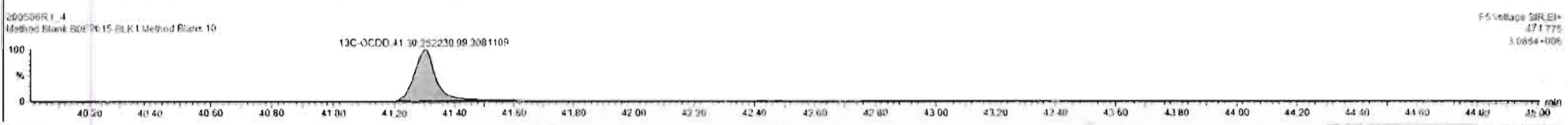
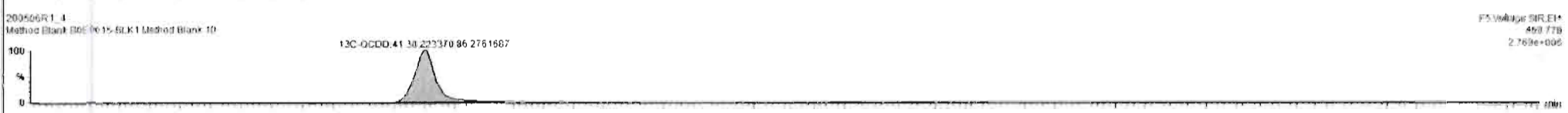
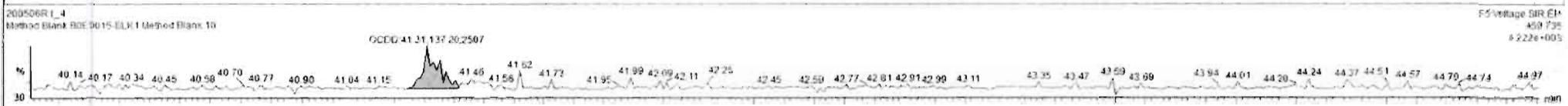
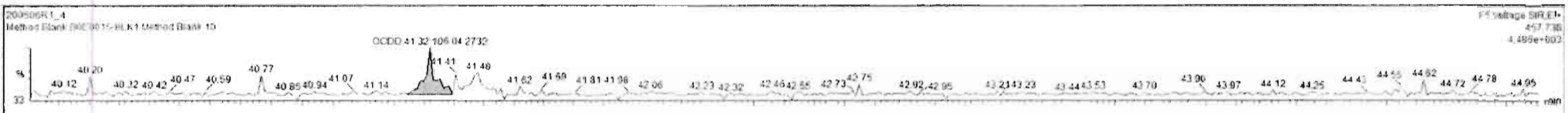
Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank



200506R1\_4 - B0E0015-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	vsVst	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	2.43e2	0.77	NO	0.93	18.000	41.32	1.001	0.219		0.129	0.219
8 2,3,7,8-TCDF			NO	0.79	18.000					0.0345	
9 1,2,3,7,8-PeCDF			NO	0.91	18.000					0.0456	
10 2,3,4,7,8-PeCDF			NO	0.97	18.000					0.0404	
11 1,2,3,4,7,8-HxCDF			NO	0.88	18.000					0.0154	

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



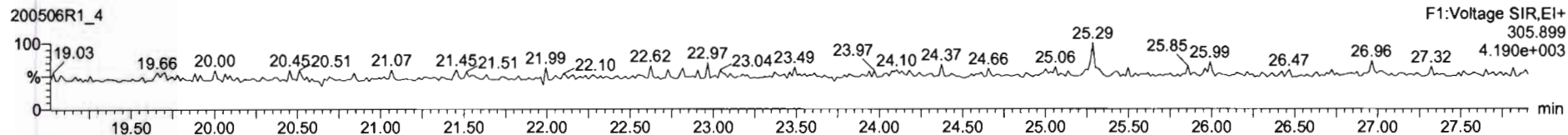
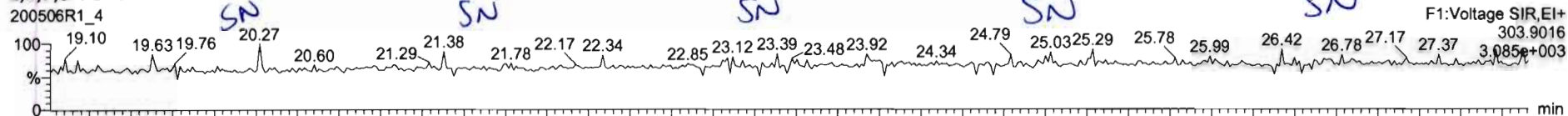
Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time

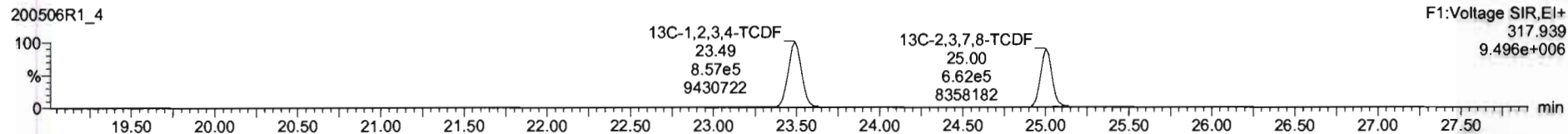
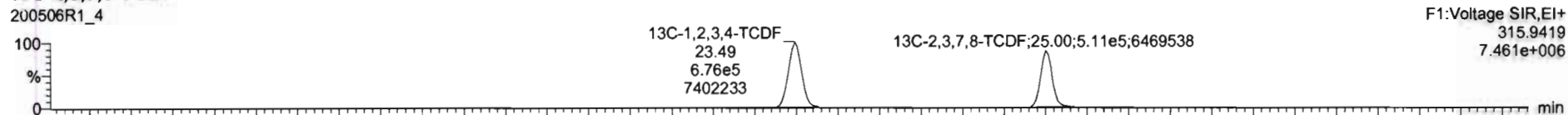
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

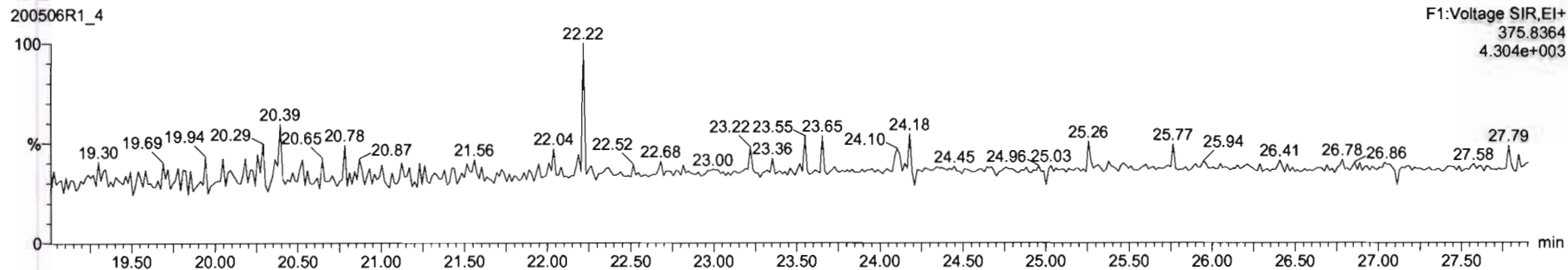
2,3,7,8-TCDF



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



DPE1



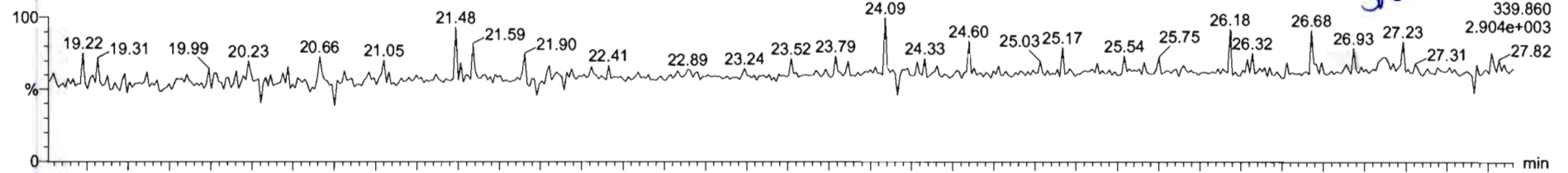
Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

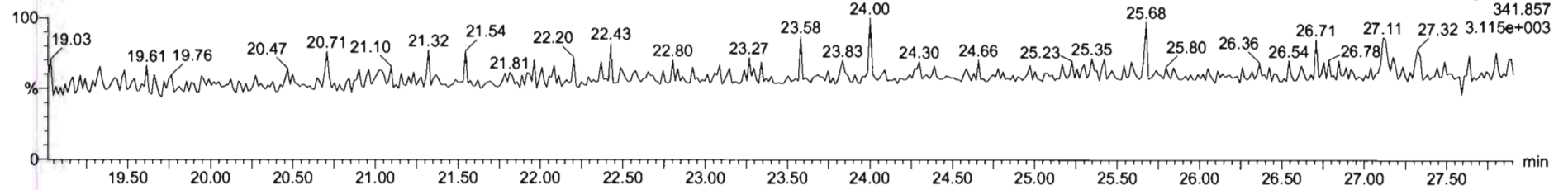
Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200506R1\_4

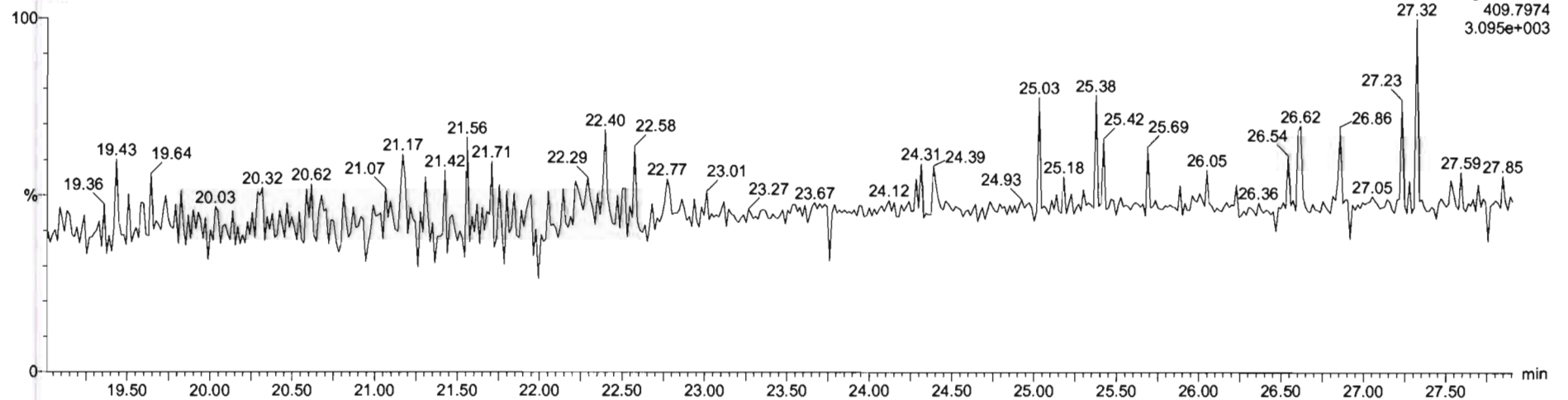


200506R1\_4



DPE6

200506R1\_4

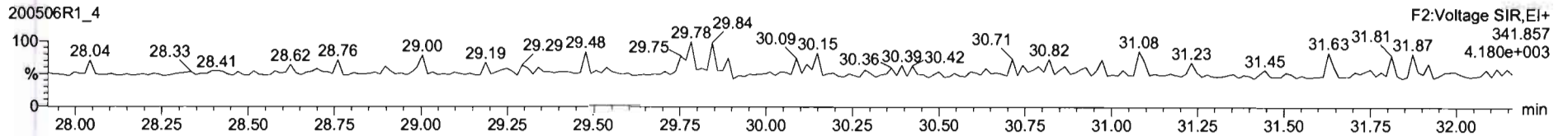
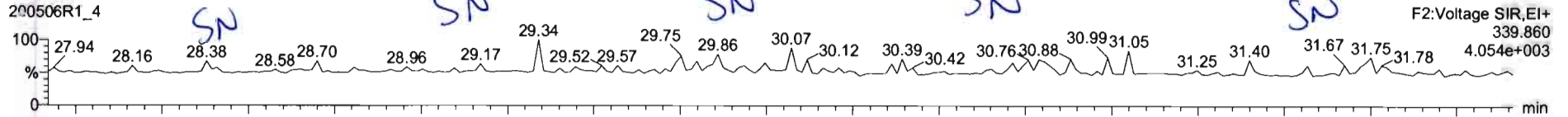


Dataset: Untitled

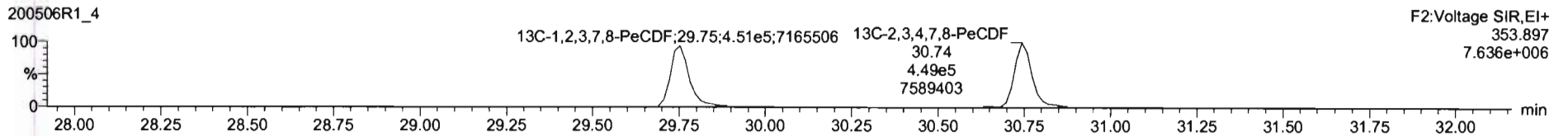
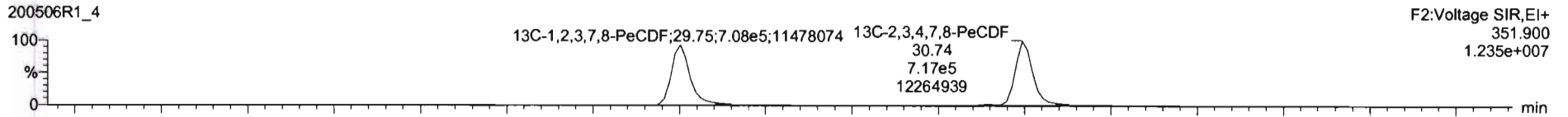
Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

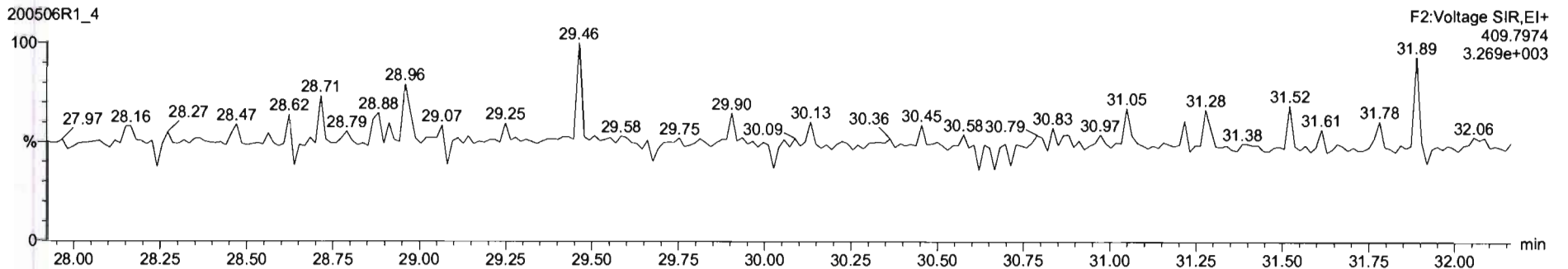
1,2,3,7,8-PeCDF



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



DPE2



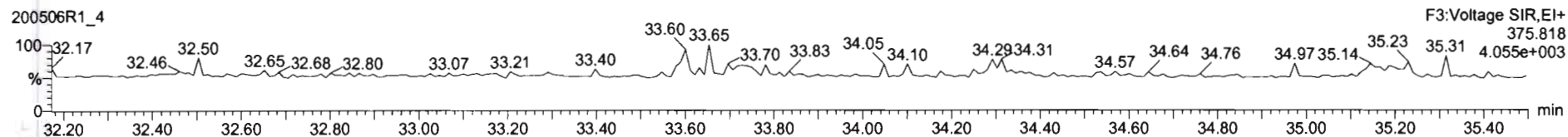
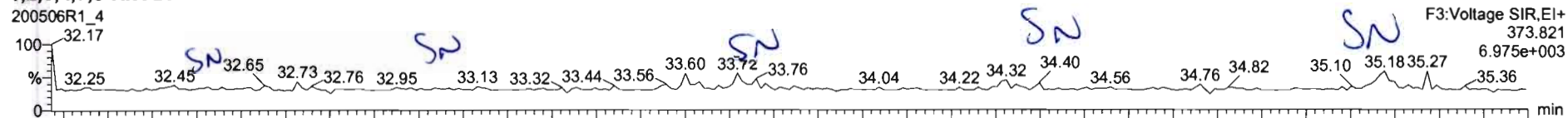
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Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time

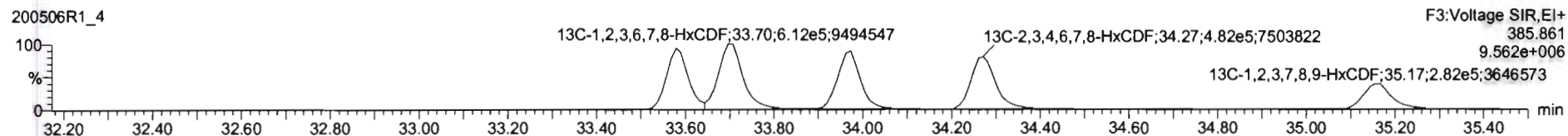
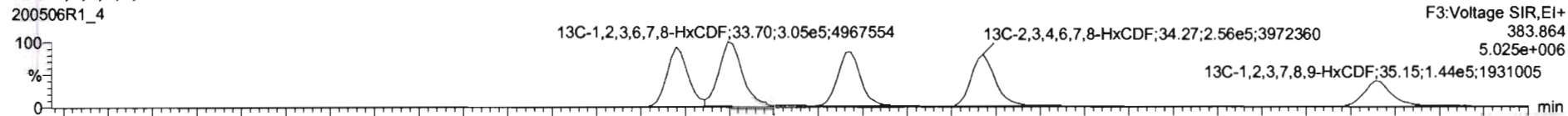
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

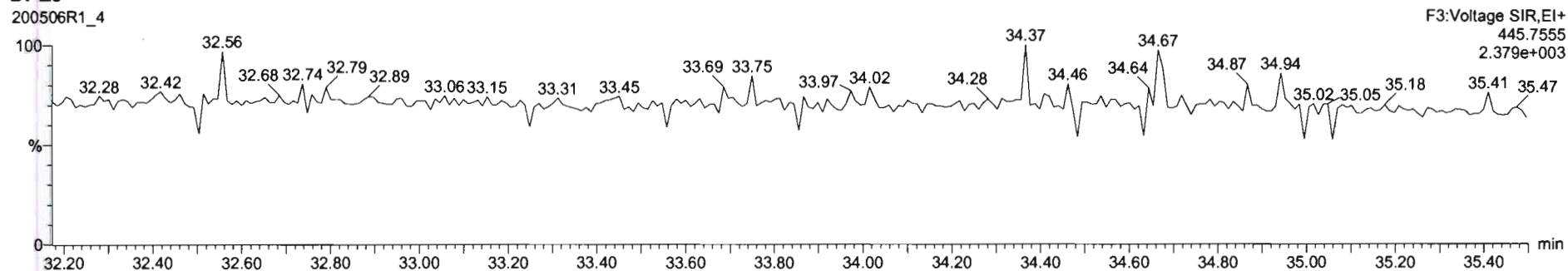
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



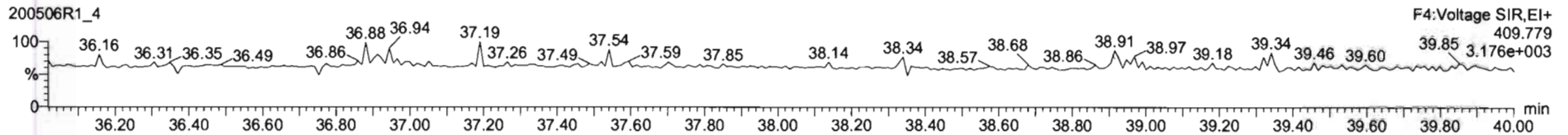
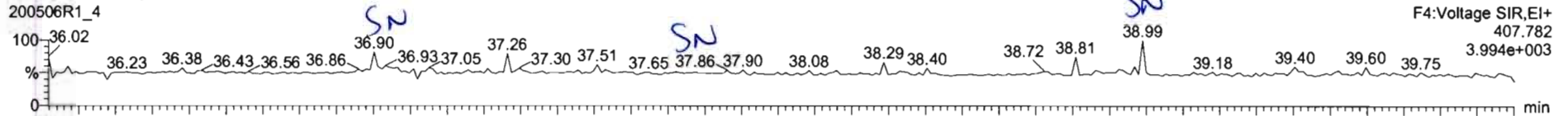


Dataset: Untitled

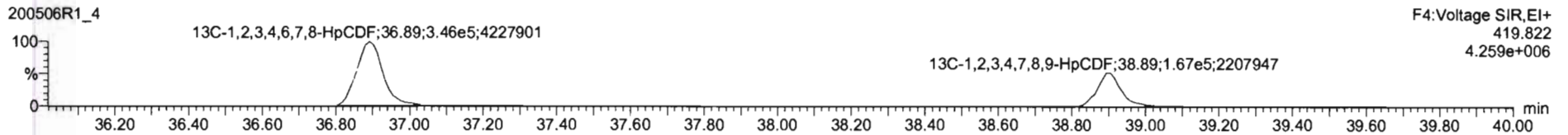
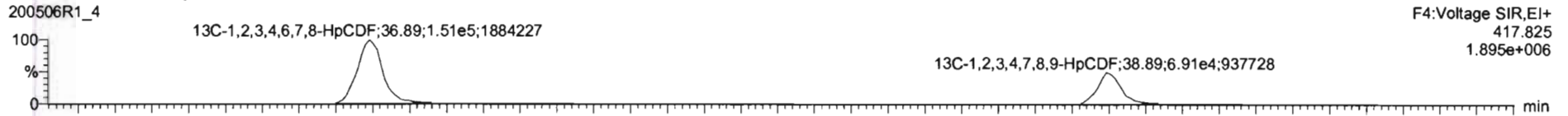
Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

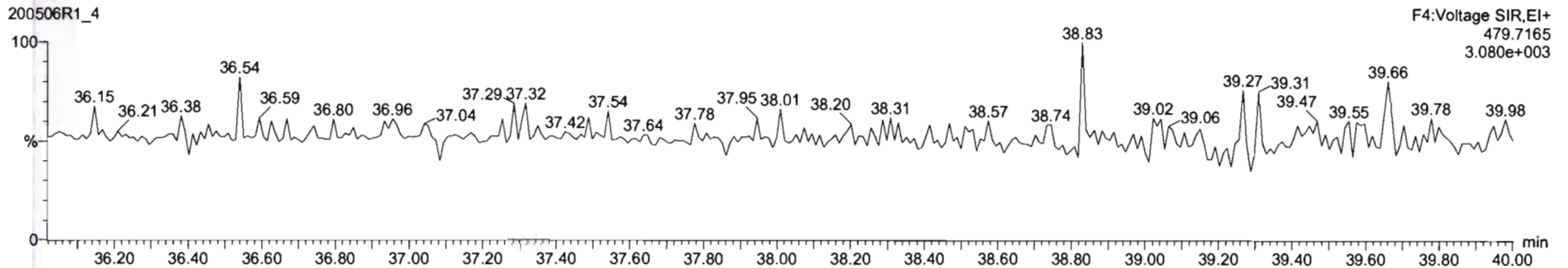
1,2,3,4,6,7,8-HpCDF



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



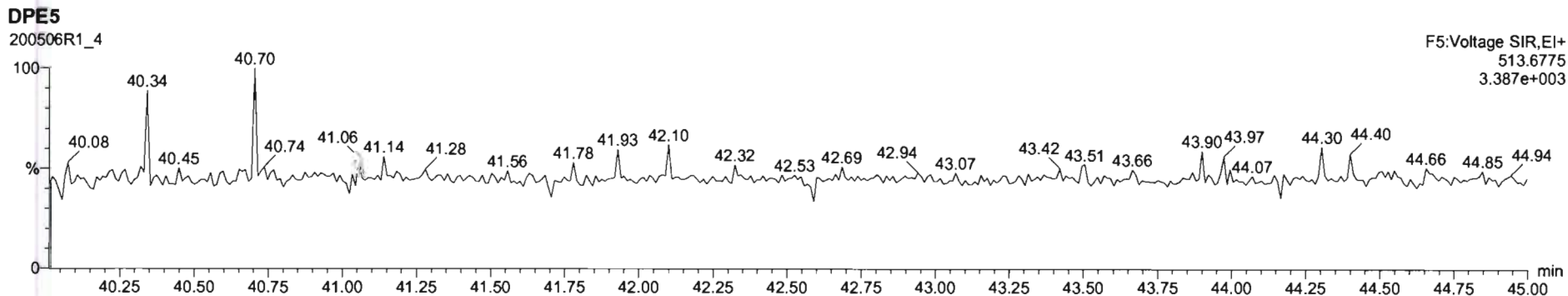
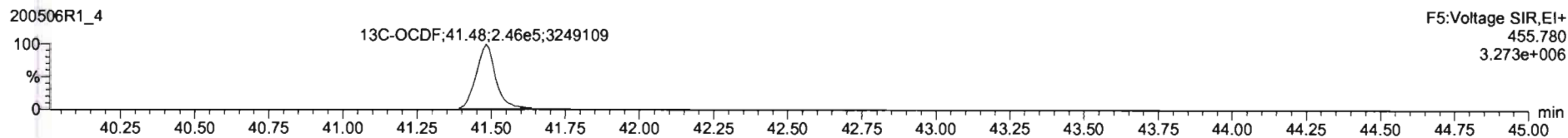
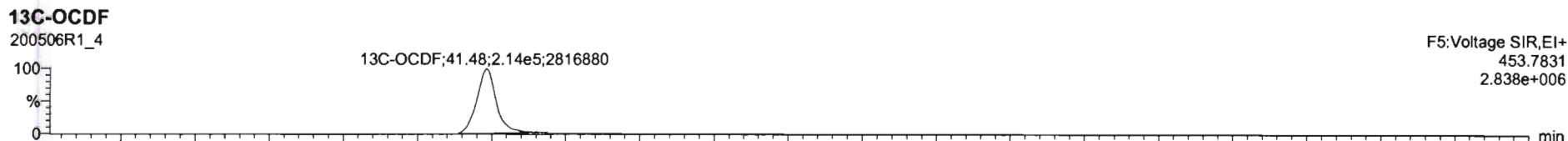
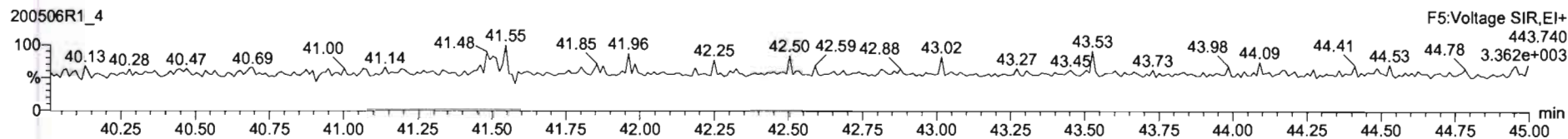
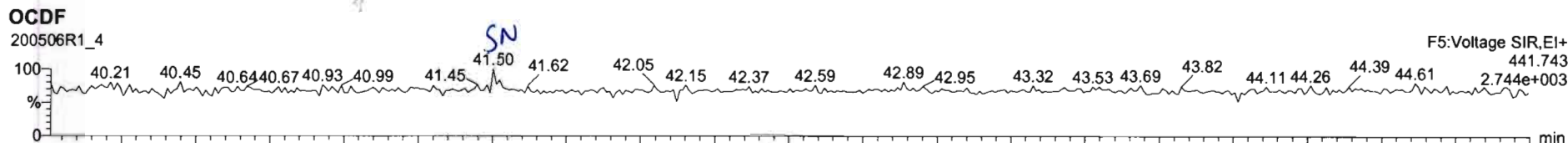
DPE4



Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

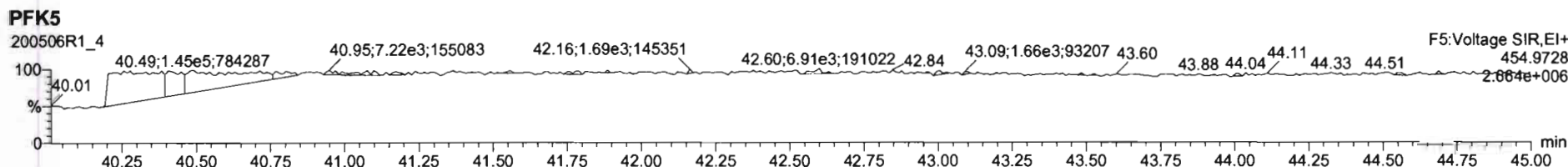
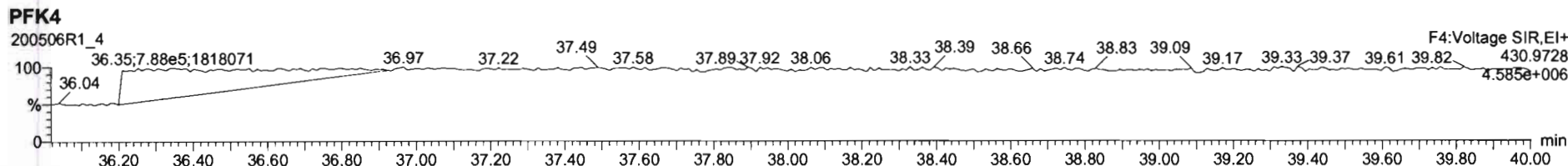
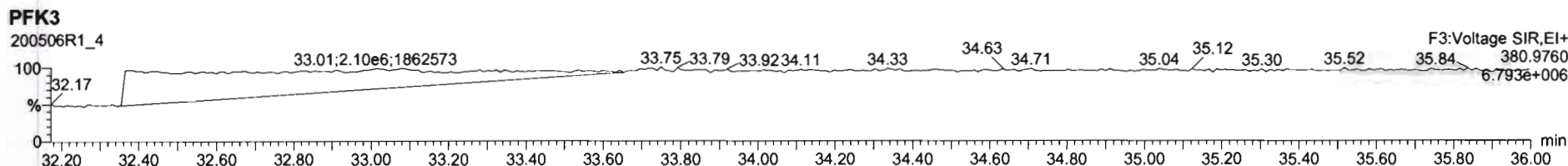
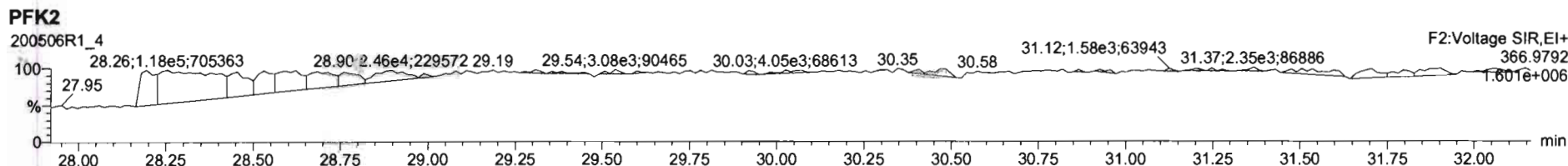
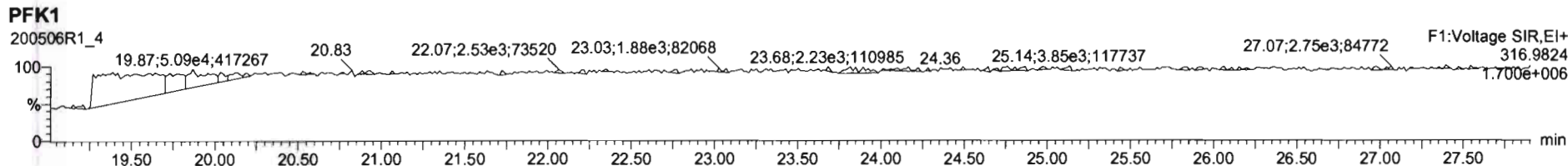
Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank



Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1\_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200506R1\200506R1-2.qld

Last Altered: Wednesday, May 06, 2020 9:30:15 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:59:29 PM Pacific Daylight Time

*GRB 05/06/2020*

*CT 05/07/2020*

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

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

Name: 200506R1\_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	8.61e4	0.77	NO	0.947	10.000	25.991	25.98	1.001	1.001	16.344		0.0741	16.3
2	2 1,2,3,7,8-PeCDD	3.28e5	0.62	NO	0.942	10.000	31.085	31.08	1.001	1.000	82.417		0.112	82.4
3	3 1,2,3,4,7,8-HxCDD	2.52e5	1.24	NO	1.06	10.000	34.452	34.45	1.000	1.000	87.107		0.274	87.1
4	4 1,2,3,6,7,8-HxCDD	2.83e5	1.25	NO	0.915	10.000	34.548	34.56	1.000	1.000	89.422		0.295	89.4
5	5 1,2,3,7,8,9-HxCDD	2.44e5	1.20	NO	0.915	10.000	34.835	34.83	1.000	1.000	89.056		0.353	89.1
6	6 1,2,3,4,6,7,8-HpCDD	1.72e5	1.03	NO	0.898	10.000	38.319	38.33	1.000	1.001	89.584		0.436	89.6
7	7 OCDD	2.70e5	0.89	NO	0.933	10.000	41.311	41.32	1.000	1.000	179.05		0.331	179
8	8 2,3,7,8-TCDF	9.52e4	0.74	NO	0.787	10.000	25.027	25.03	1.001	1.001	17.571		0.0743	17.6
9	9 1,2,3,7,8-PeCDF	5.07e5	1.55	NO	0.910	10.000	29.772	29.77	1.001	1.000	87.367		0.162	87.4
10	10 2,3,4,7,8-PeCDF	4.94e5	1.56	NO	0.966	10.000	30.774	30.76	1.001	1.000	85.193		0.158	85.2
11	11 1,2,3,4,7,8-HxCDF	3.13e5	1.24	NO	0.878	10.000	33.579	33.59	1.000	1.000	95.772		0.270	95.8
12	12 1,2,3,6,7,8-HxCDF	3.67e5	1.20	NO	0.874	10.000	33.717	33.72	1.000	1.000	94.730		0.267	94.7
13	13 2,3,4,6,7,8-HxCDF	3.37e5	1.26	NO	0.922	10.000	34.305	34.28	1.001	1.000	97.397		0.290	97.4
14	14 1,2,3,7,8,9-HxCDF	2.32e5	1.22	NO	0.864	10.000	35.166	35.18	1.000	1.000	94.918		0.488	94.9
15	15 1,2,3,4,6,7,8-HpCDF	2.31e5	0.98	NO	0.871	10.000	36.928	36.91	1.001	1.001	97.152		0.413	97.2
16	16 1,2,3,4,7,8,9-HpCDF	1.48e5	0.99	NO	1.01	10.000	38.904	38.92	1.000	1.000	96.862		0.590	96.9
17	17 OCDF	2.69e5	0.87	NO	0.802	10.000	41.492	41.50	1.000	1.000	188.45		0.304	188
18	18 13C-2,3,7,8-TCDD	1.11e6	0.76	NO	1.16	10.000	25.938	25.96	1.026	1.027	203.53	102	0.228	
19	19 13C-1,2,3,7,8-PeCDD	8.44e5	0.63	NO	0.847	10.000	31.013	31.06	1.227	1.229	211.36	106	0.312	
20	20 13C-1,2,3,4,7,8-HxCDD	5.44e5	1.27	NO	0.750	10.000	34.452	34.44	1.014	1.014	204.03	102	0.582	
21	21 13C-1,2,3,6,7,8-HxCDD	6.93e5	1.27	NO	0.963	10.000	34.564	34.55	1.017	1.017	202.44	101	0.453	
22	22 13C-1,2,3,7,8,9-HxCDD	5.99e5	1.27	NO	0.838	10.000	34.832	34.83	1.025	1.025	201.06	101	0.521	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.29e5	1.05	NO	0.641	10.000	38.318	38.31	1.128	1.128	187.91	94.0	0.474	
24	24 13C-OCDD	6.46e5	0.84	NO	0.586	10.000	41.308	41.31	1.216	1.216	309.64	77.4	0.703	
25	25 13C-2,3,7,8-TCDF	1.38e6	0.78	NO	1.03	10.000	25.001	25.00	0.989	0.989	181.47	90.7	0.377	
26	26 13C-1,2,3,7,8-PeCDF	1.28e6	1.63	NO	0.845	10.000	29.706	29.75	1.176	1.177	205.86	103	0.676	
27	27 13C-2,3,4,7,8-PeCDF	1.20e6	1.59	NO	0.814	10.000	30.694	30.74	1.215	1.217	200.96	100	0.702	
28	28 13C-1,2,3,4,7,8-HxCDF	7.45e5	0.51	NO	1.00	10.000	33.592	33.58	0.989	0.988	208.44	104	0.637	
29	29 13C-1,2,3,6,7,8-HxCDF	8.86e5	0.51	NO	1.14	10.000	33.715	33.71	0.992	0.992	219.19	110	0.563	
30	30 13C-2,3,4,6,7,8-HxCDF	7.50e5	0.50	NO	1.02	10.000	34.282	34.27	1.009	1.009	206.39	103	0.626	
31	31 13C-1,2,3,7,8,9-HxCDF	5.65e5	0.50	NO	0.845	10.000	35.172	35.17	1.035	1.035	187.96	94.0	0.757	

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-2.qld

Last Altered: Wednesday, May 06, 2020 9:30:15 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 1:59:29 PM Pacific Daylight Time

Name: 200506R1\_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.45e5	0.43	NO	0.771	10.000	36.901	36.89	1.086	1.086	198.73	99.4	0.541	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.02e5	0.43	NO	0.482	10.000	38.909	38.90	1.145	1.145	175.97	88.0	0.865	
34	34 13C-OCDF	7.12e5	0.87	NO	0.669	10.000	41.477	41.49	1.221	1.221	299.57	74.9	0.446	
35	35 37Cl-2,3,7,8-TCDD	4.04e5			1.10	10.000	25.969	25.98	1.028	1.028	78.014	97.5	0.0553	
36	36 13C-1,2,3,4-TCDD	9.42e5	0.79	NO	1.00	10.000	25.350	25.27	1.000	1.000	200.00	100	0.264	
37	37 13C-1,2,3,4-TCDF	1.47e6	0.79	NO	1.00	10.000	23.560	23.49	1.000	1.000	200.00	100	0.390	
38	38 13C-1,2,3,4,6,9-HxCDF	7.11e5	0.51	NO	1.00	10.000	34.000	33.97	1.000	1.000	200.00	100	0.640	

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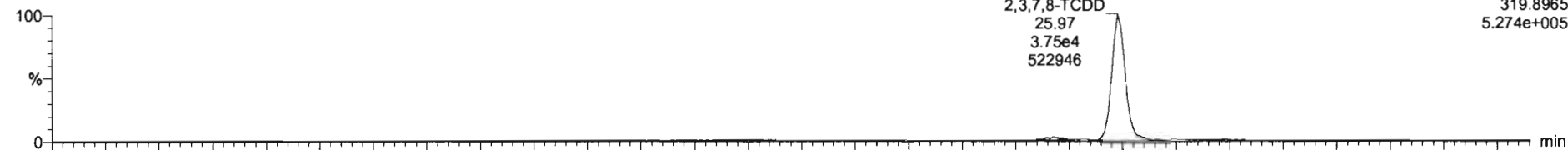
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Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

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

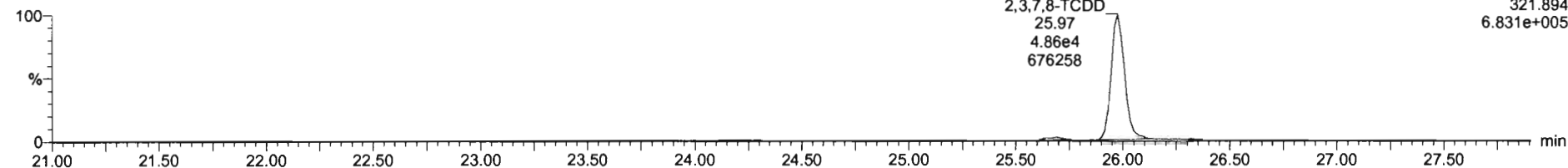
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**2,3,7,8-TCDD**

200506R1\_2

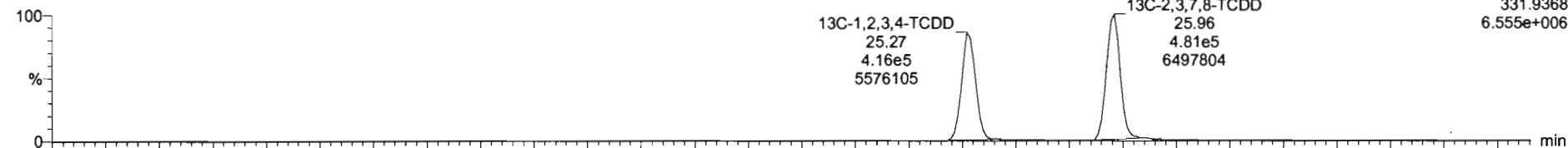


200506R1\_2

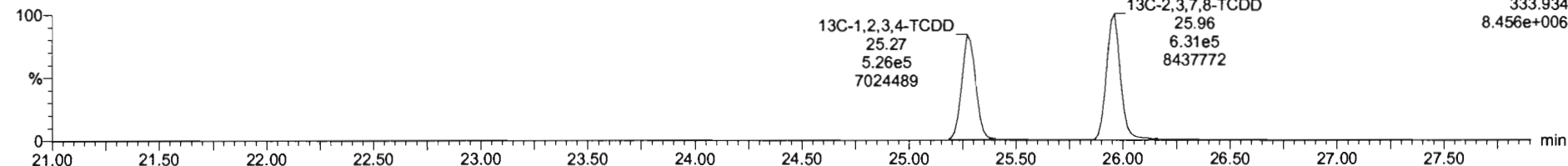


**13C-2,3,7,8-TCDD**

200506R1\_2



200506R1\_2



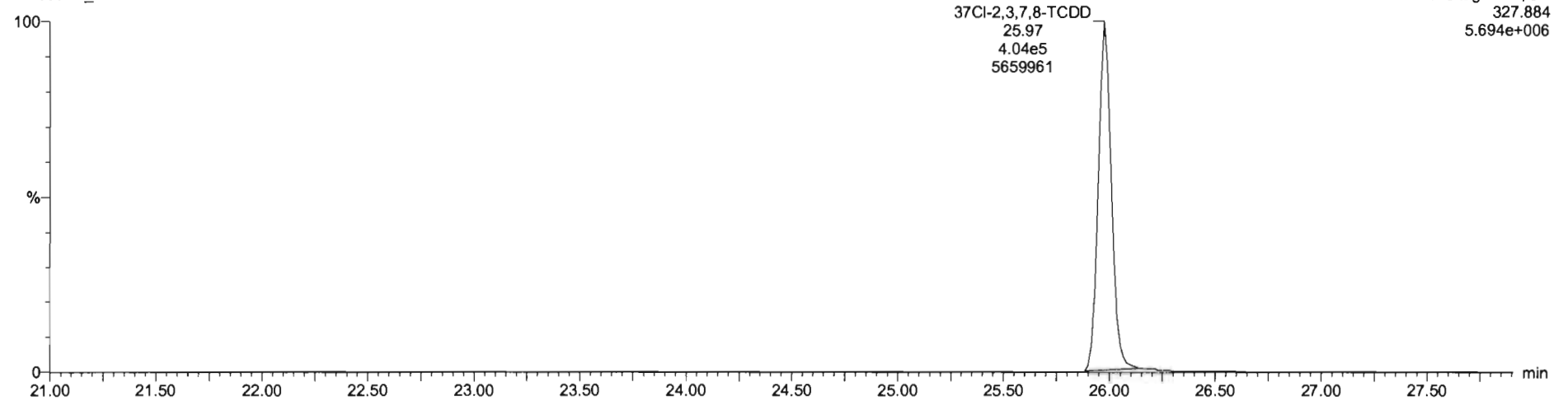
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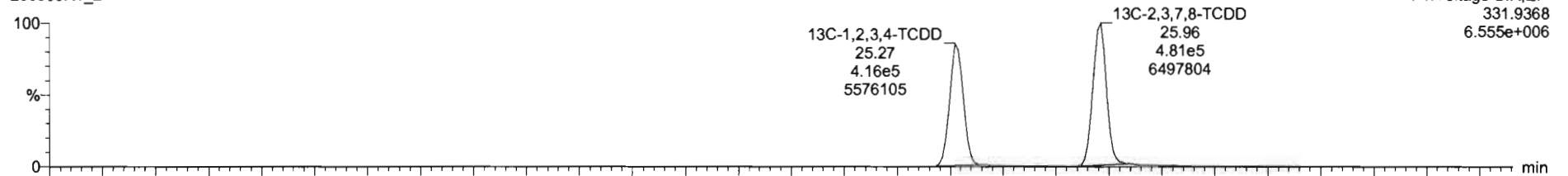
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200506R1\_2

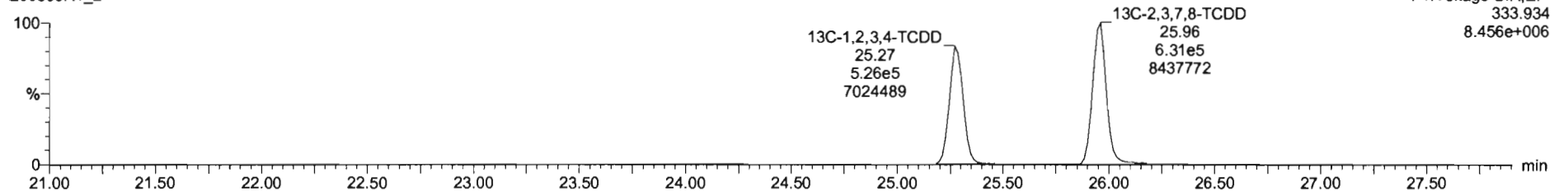


**13C-1,2,3,4-TCDD**

200506R1\_2



200506R1\_2



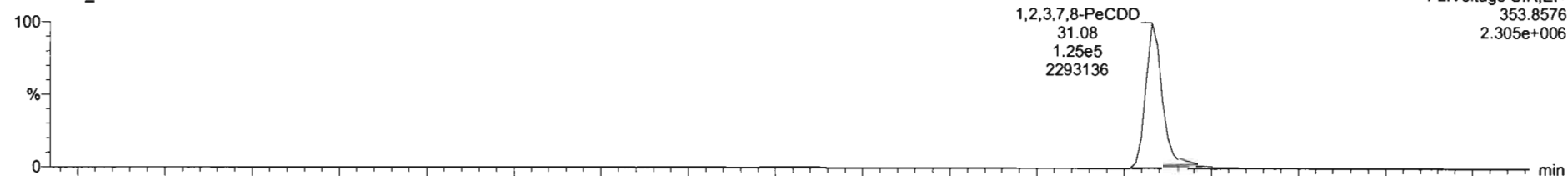
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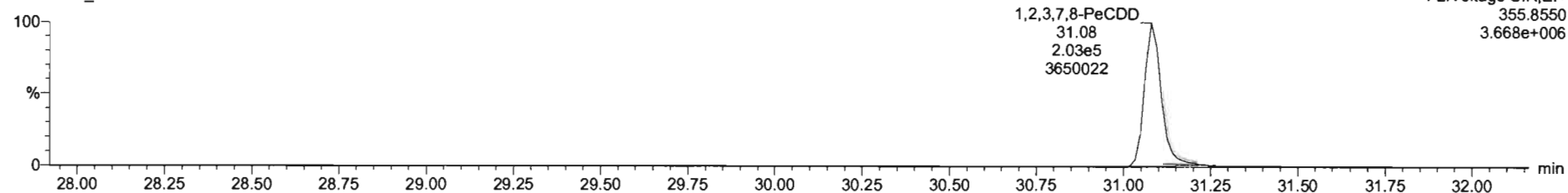
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**1,2,3,7,8-PeCDD**

200506R1\_2

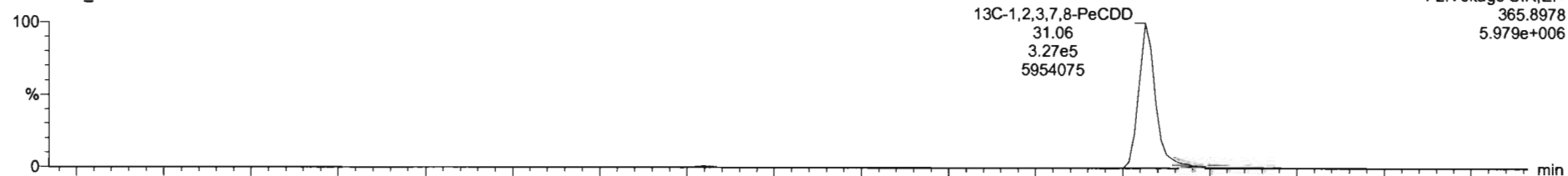


200506R1\_2

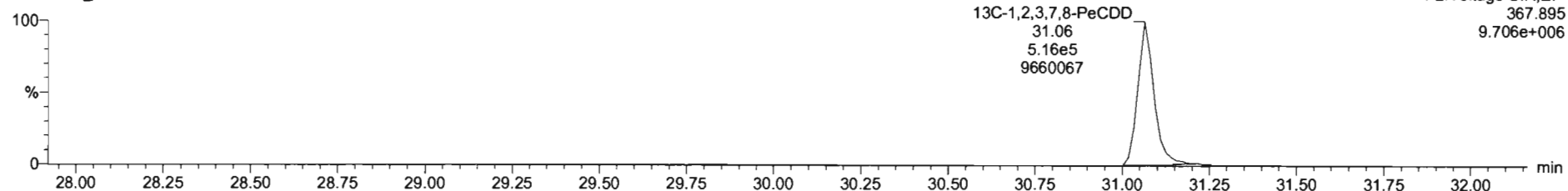


**13C-1,2,3,7,8-PeCDD**

200506R1\_2



200506R1\_2





Dataset: Untitled

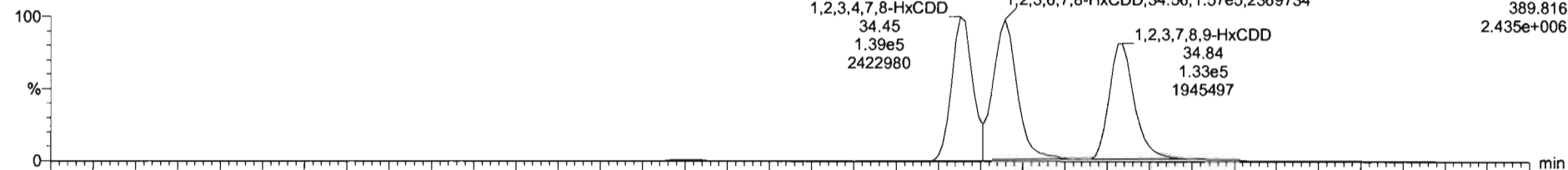
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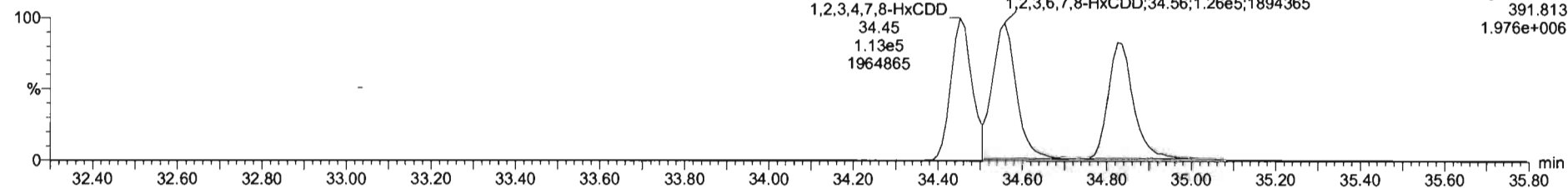
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1,2,3,4,7,8-HxCDD

200506R1\_2

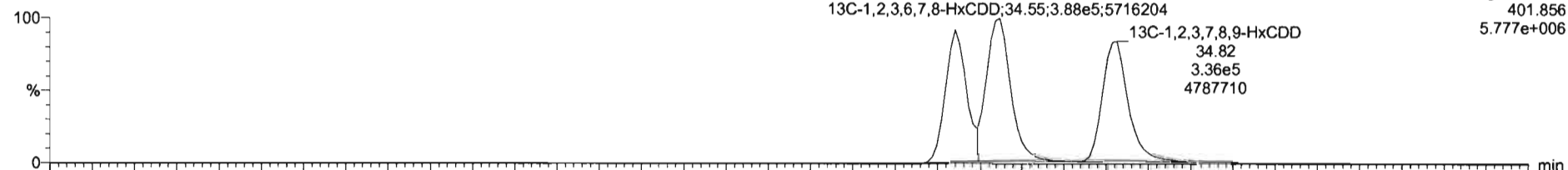


200506R1\_2

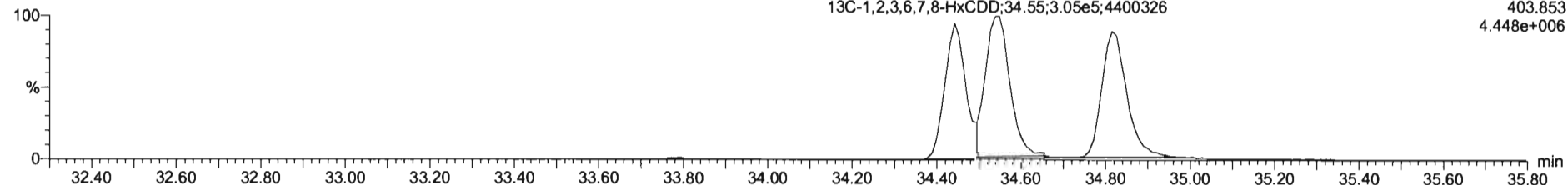


13C-1,2,3,4,7,8-HxCDD

200506R1\_2



200506R1\_2



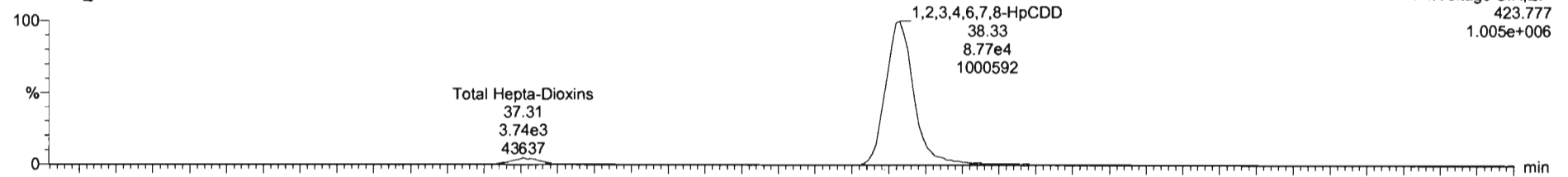
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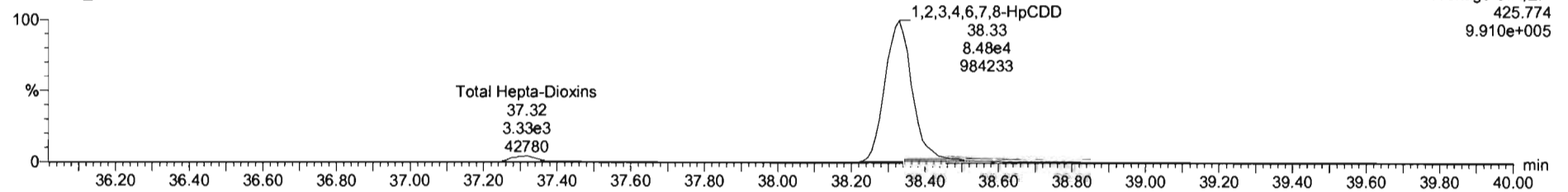
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**1,2,3,4,6,7,8-HpCDD**

200506R1\_2

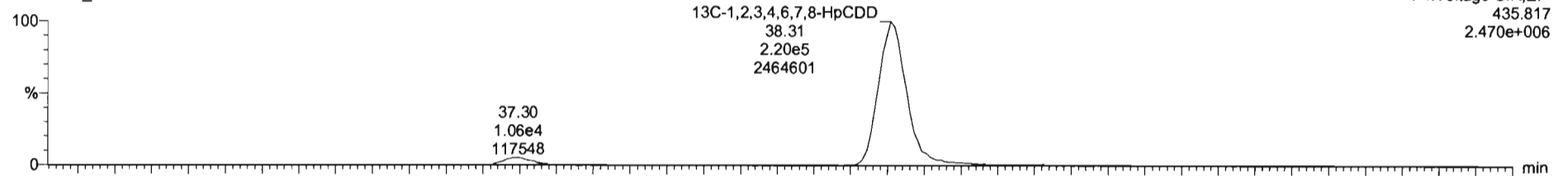


200506R1\_2

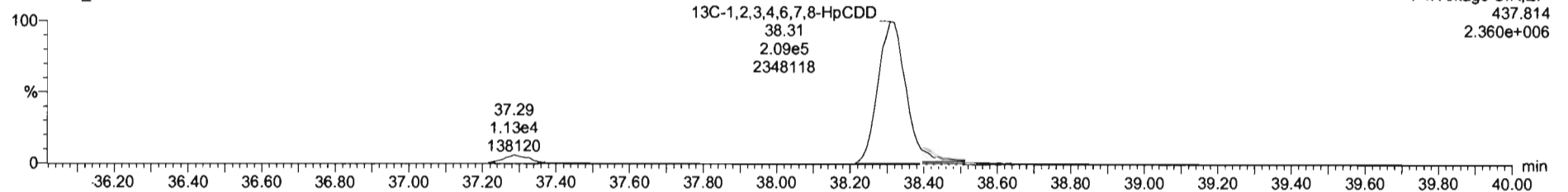


**13C-1,2,3,4,6,7,8-HpCDD**

200506R1\_2



200506R1\_2



Dataset: Untitled

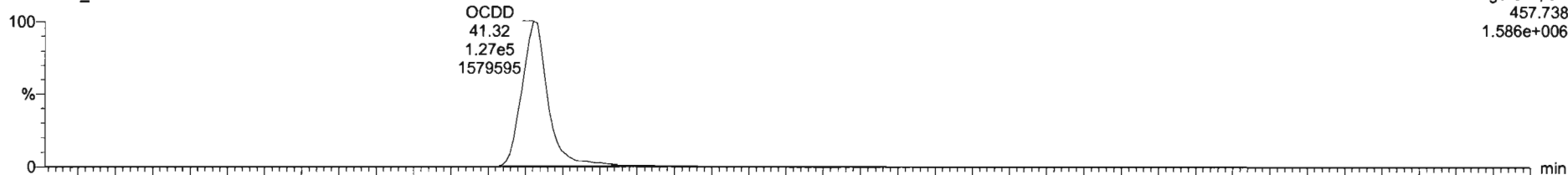
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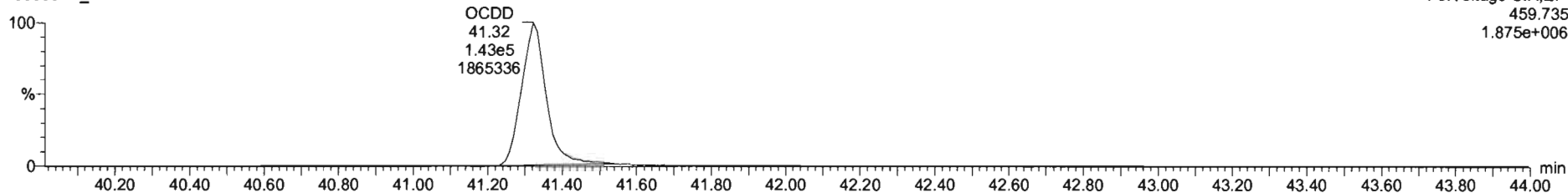
**OCDD**

200506R1\_2



F5:Voltage SIR,EI+  
457.738  
1.586e+006

200506R1\_2



F5:Voltage SIR,EI+  
459.735  
1.875e+006

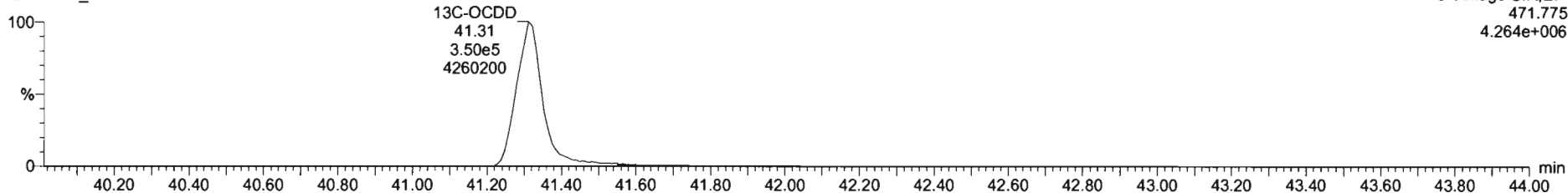
**13C-OCDD**

200506R1\_2



F5:Voltage SIR,EI+  
469.778  
3.714e+006

200506R1\_2



F5:Voltage SIR,EI+  
471.775  
4.264e+006

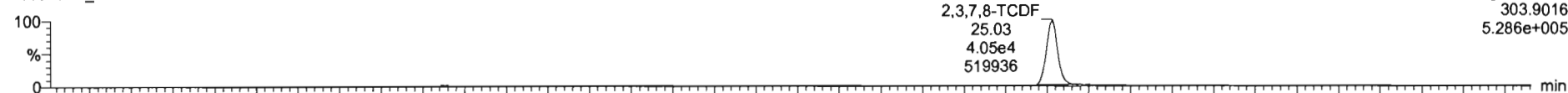
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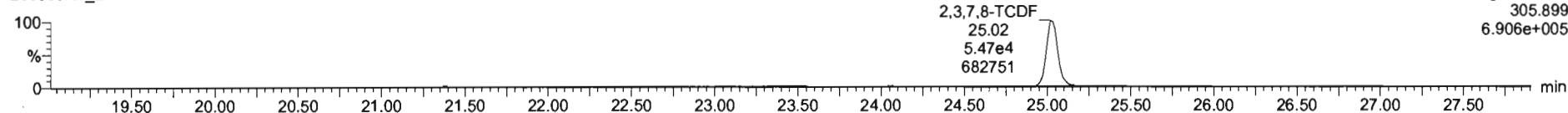
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**2,3,7,8-TCDF**

200506R1\_2

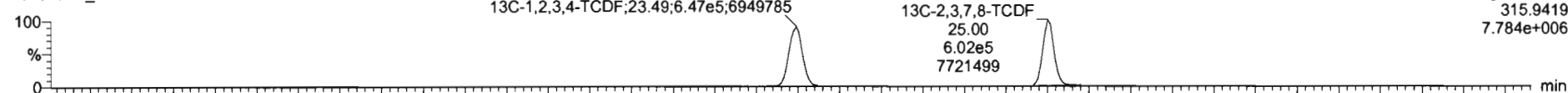


200506R1\_2

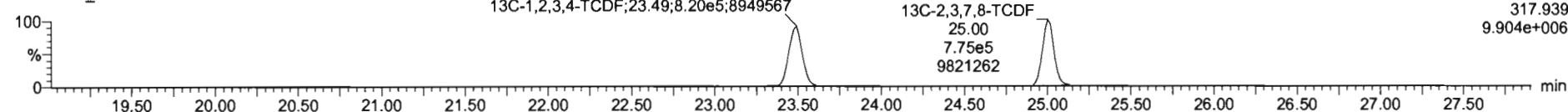


**13C-2,3,7,8-TCDF**

200506R1\_2

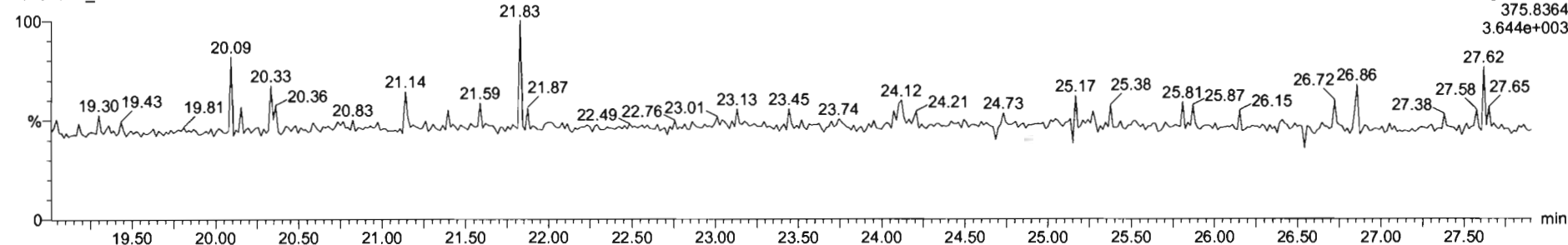


200506R1\_2



**DPE1**

200506R1\_2



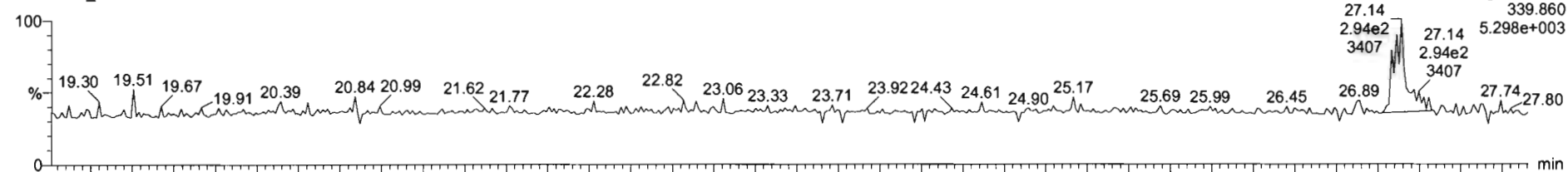
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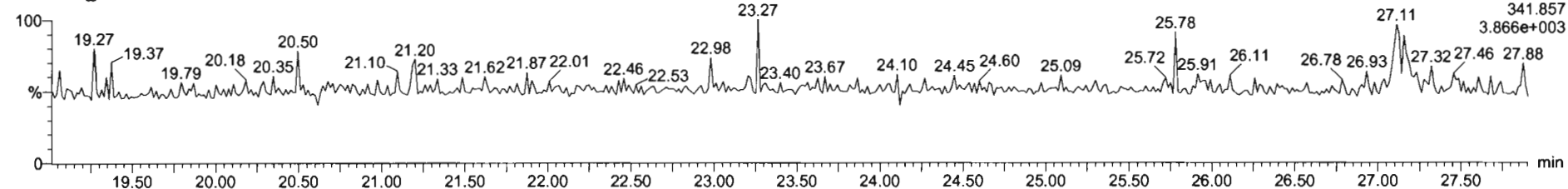
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200506R1\_2

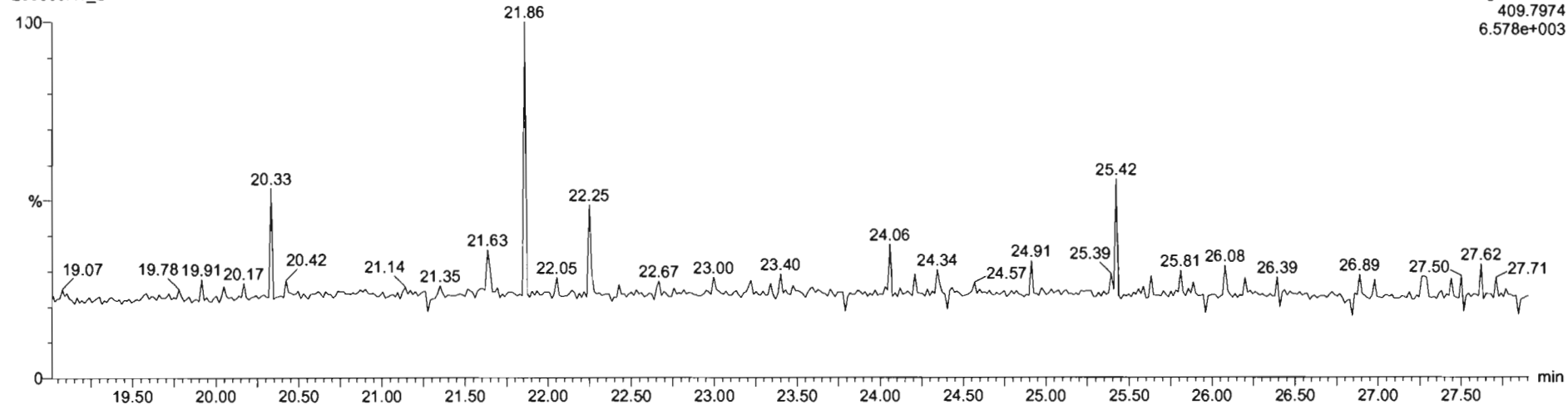


200506R1\_2



DPE6

200506R1\_2



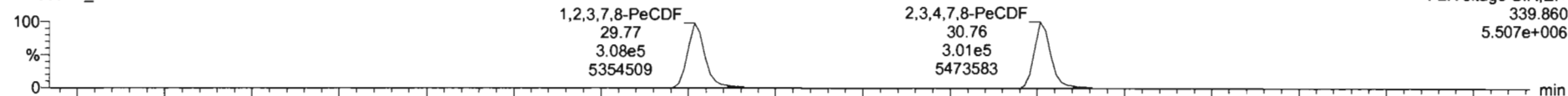
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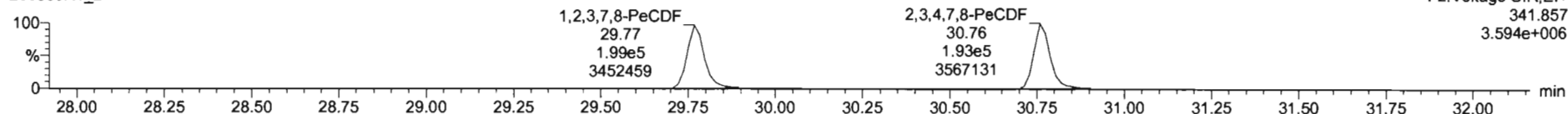
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**1,2,3,7,8-PeCDF**

200506R1\_2

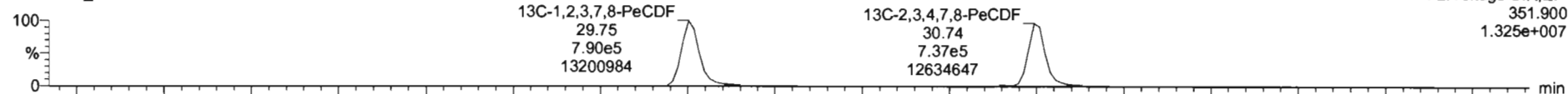


200506R1\_2

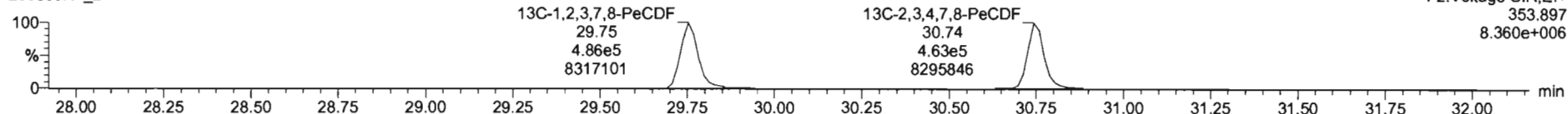


**13C-1,2,3,7,8-PeCDF**

200506R1\_2

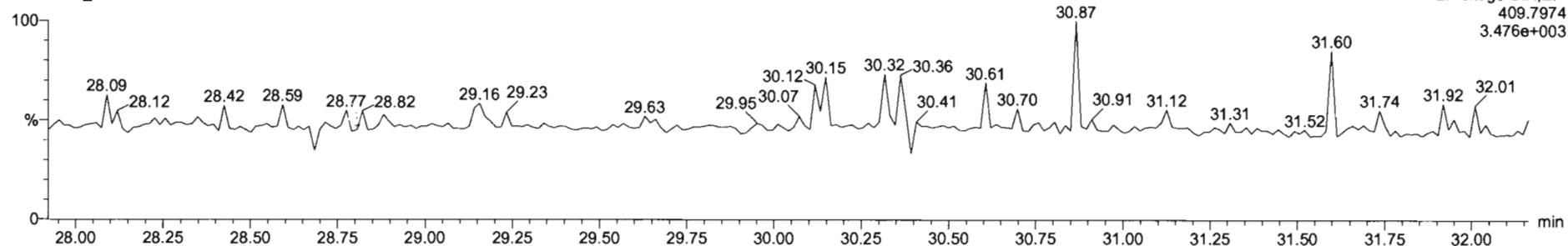


200506R1\_2



**DPE2**

200506R1\_2



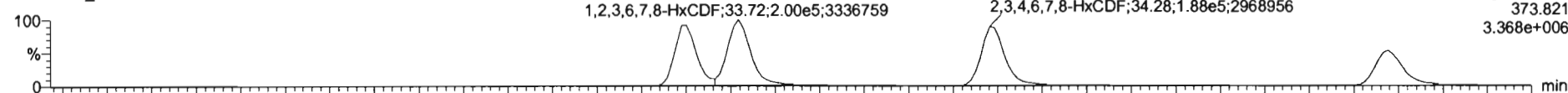
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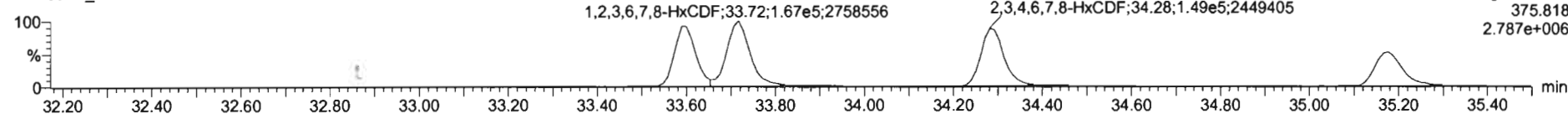
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**1,2,3,4,7,8-HxCDF**

200506R1\_2

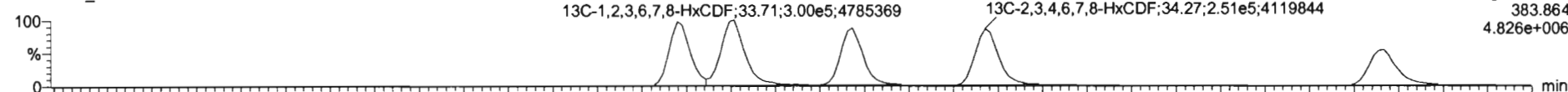


200506R1\_2

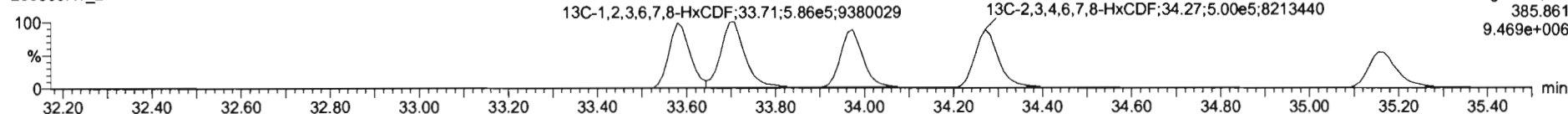


**13C-1,2,3,4,7,8-HxCDF**

200506R1\_2

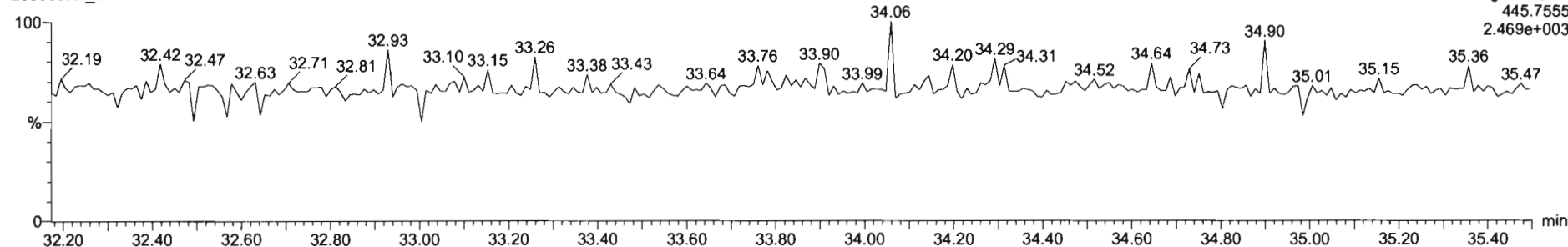


200506R1\_2



**DPE3**

200506R1\_2



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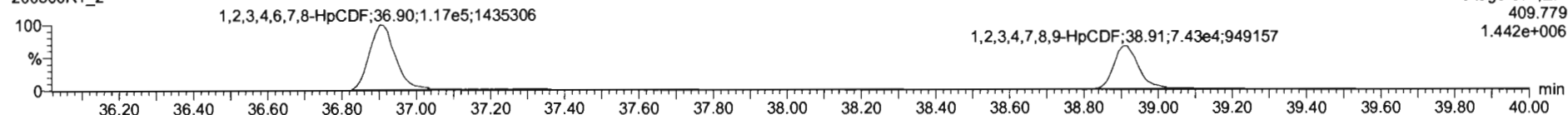
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**1,2,3,4,6,7,8-HpCDF**

200506R1\_2

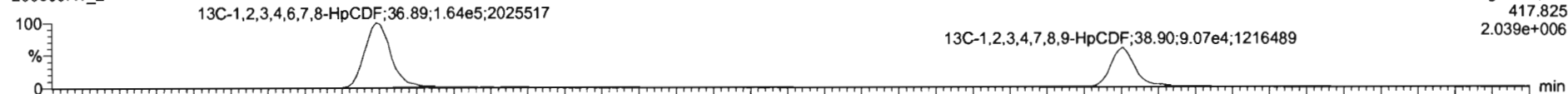


200506R1\_2

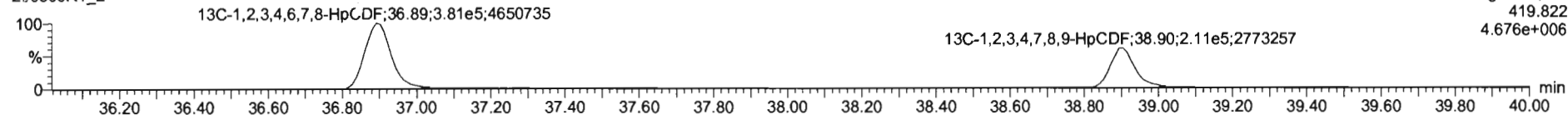


**13C-1,2,3,4,6,7,8-HpCDF**

200506R1\_2

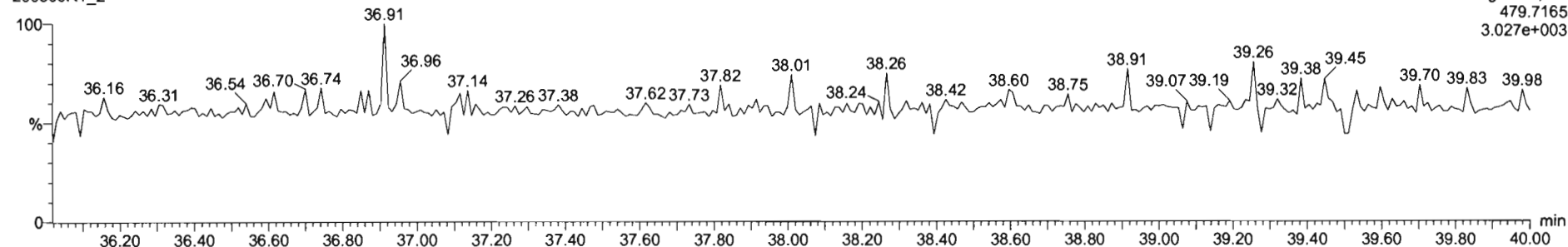


200506R1\_2



**DPE4**

200506R1\_2

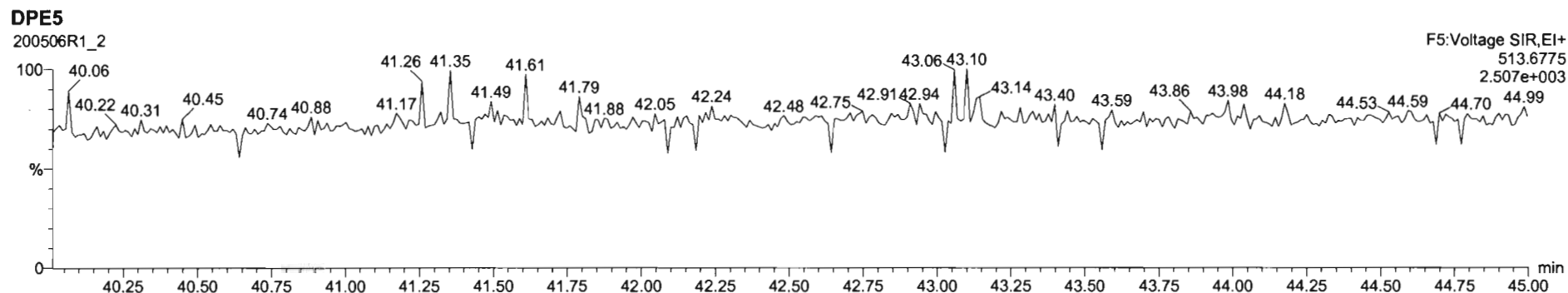
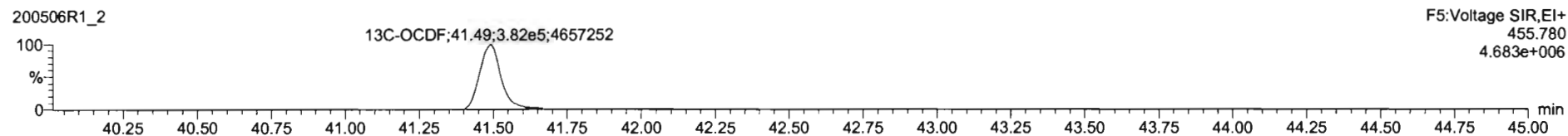
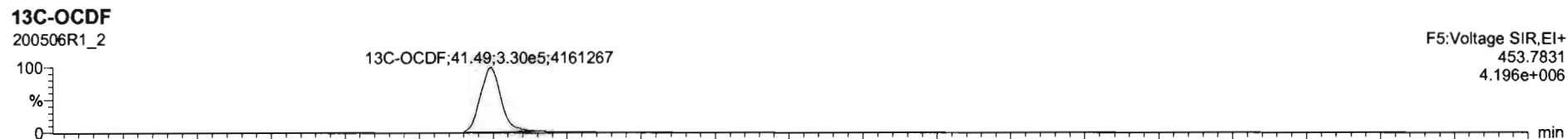
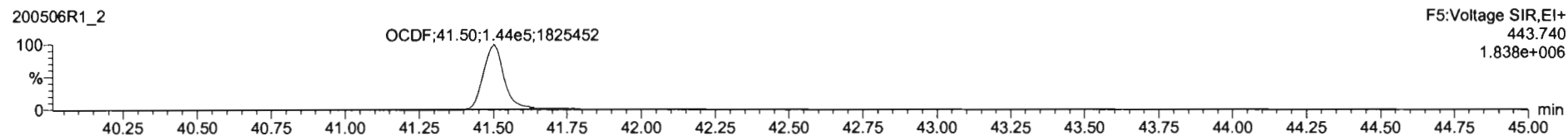
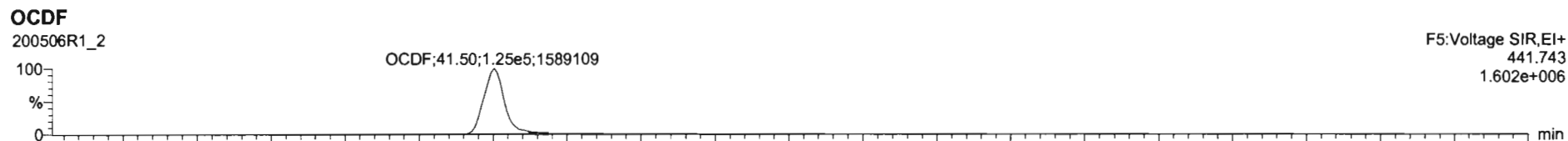




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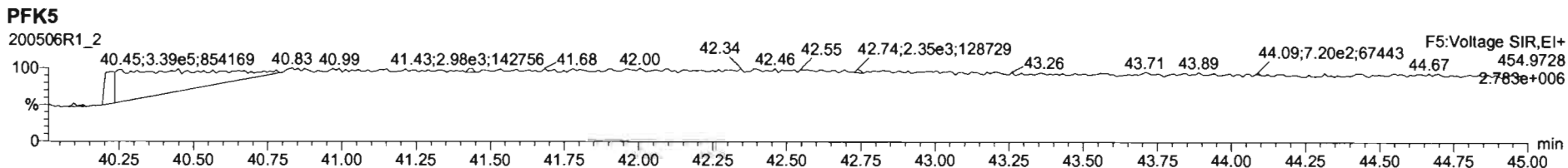
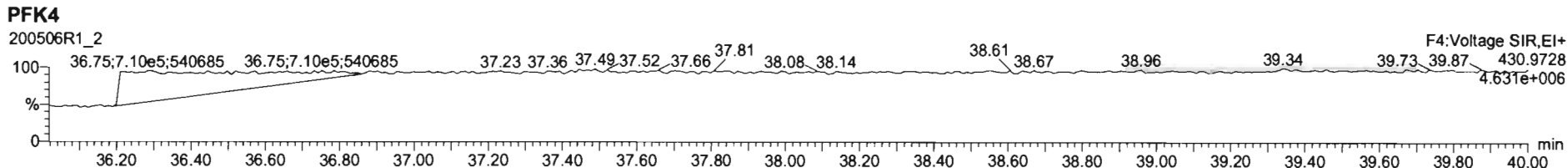
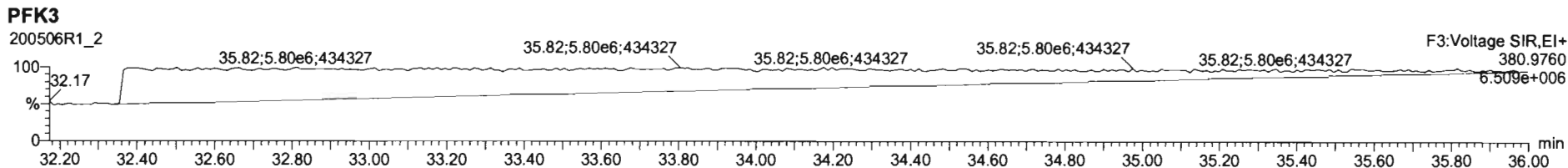
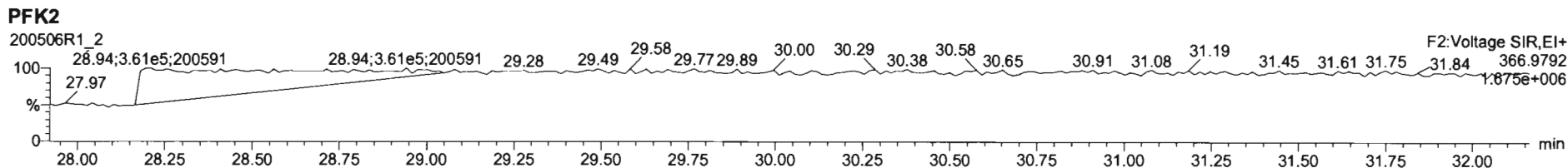
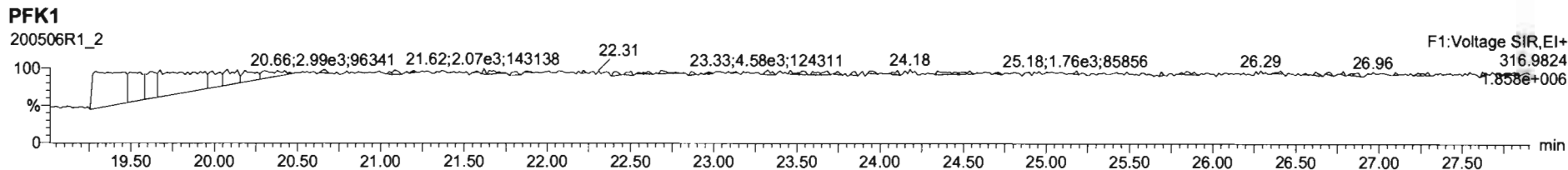
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Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

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Dataset: U:\VG12.PRO\Results\200501R1\200501R1-6.qld

Last Altered: Friday, May 01, 2020 3:50:44 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 3:51:19 PM Pacific Daylight Time

*GRB 05/05/2020*  
*LT 05/05/2020*

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

Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.004	26.021		1.001				0.0677	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.004	31.101		1.001				0.0669	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.004	34.473		1.000				0.145	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.004	34.559		1.000				0.144	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.004	34.835		1.000				0.171	
6	6 1,2,3,4,6,7,8-HpCDD	2.45e3	0.94	NO	0.898	10.004	38.329	38.33	1.000	1.000	0.76635		0.149	0.766
7	7 OCDD	1.88e4	0.88	NO	0.933	10.004	41.311	41.32	1.000	1.000	7.5782		0.152	7.58
8	8 2,3,7,8-TCDF			NO	0.787	10.004	25.072		1.001				0.0574	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.004	29.788		1.001				0.0393	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.004	30.790		1.001				0.0374	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.004	33.600		1.000				0.0998	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.004	33.727		1.000				0.0980	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.004	34.316		1.001				0.112	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.004	35.176		1.000				0.170	
15	15 1,2,3,4,6,7,8-HpCDF	5.35e3	1.14	NO	0.871	10.004	36.939	36.92	1.001	1.001	1.3941		0.0991	1.39
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.004	38.904		1.000				0.131	
17	17 OCDF	1.44e3	0.99	NO	0.802	10.004	41.482	41.51	1.000	1.001	0.63323		0.118	0.633
18	18 13C-2,3,7,8-TCDD	1.36e6	0.79	NO	1.16	10.004	25.984	25.99	1.026	1.027	179.89	90.0	0.203	
19	19 13C-1,2,3,7,8-PeCDD	1.06e6	0.63	NO	0.847	10.004	31.068	31.08	1.227	1.228	191.52	95.8	0.290	
20	20 13C-1,2,3,4,7,8-HxCDD	8.05e5	1.28	NO	0.750	10.004	34.463	34.46	1.014	1.014	170.79	85.4	0.495	
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	1.27	NO	0.963	10.004	34.575	34.56	1.017	1.017	169.40	84.7	0.385	
22	22 13C-1,2,3,7,8,9-HxCDD	9.18e5	1.22	NO	0.838	10.004	34.844	34.83	1.025	1.025	174.37	87.2	0.443	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.12e5	1.04	NO	0.641	10.004	38.331	38.32	1.128	1.128	176.71	88.4	0.470	
24	24 13C-OCDD	1.06e6	0.94	NO	0.586	10.004	41.321	41.31	1.216	1.216	288.44	72.1	0.398	
25	25 13C-2,3,7,8-TCDF	1.75e6	0.77	NO	1.03	10.004	25.045	25.05	0.989	0.989	167.30	83.7	0.388	
26	26 13C-1,2,3,7,8-PeCDF	1.64e6	1.58	NO	0.845	10.004	29.759	29.77	1.176	1.176	191.40	95.7	0.478	
27	27 13C-2,3,4,7,8-PeCDF	1.60e6	1.63	NO	0.814	10.004	30.749	30.76	1.215	1.215	194.59	97.3	0.496	
28	28 13C-1,2,3,4,7,8-HxCDF	1.15e6	0.51	NO	1.00	10.004	33.603	33.60	0.989	0.989	181.78	90.9	0.518	
29	29 13C-1,2,3,6,7,8-HxCDF	1.33e6	0.51	NO	1.14	10.004	33.726	33.72	0.992	0.992	185.68	92.9	0.458	
30	30 13C-2,3,4,6,7,8-HxCDF	1.15e6	0.51	NO	1.02	10.004	34.293	34.28	1.009	1.009	178.19	89.1	0.509	
31	31 13C-1,2,3,7,8,9-HxCDF	9.07e5	0.51	NO	0.845	10.004	35.184	35.18	1.035	1.035	170.82	85.4	0.616	

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-6.qld

Last Altered: Friday, May 01, 2020 3:50:44 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 3:51:19 PM Pacific Daylight Time

Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.80e5	0.44	NO	0.771	10.004	36.913	36.90	1.086	1.086	181.54	90.8	0.441	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.23e5	0.44	NO	0.482	10.004	38.922	38.90	1.145	1.145	172.47	86.3	0.705	
34	34 13C-OCDF	1.14e6	0.89	NO	0.669	10.004	41.491	41.48	1.221	1.221	270.59	67.7	0.348	
35	35 37Cl-2,3,7,8-TCDD	6.38e5			1.10	10.004	26.015	26.02	1.028	1.028	89.042	111	0.0695	
36	36 13C-1,2,3,4-TCDD	1.30e6	0.81	NO	1.00	10.004	25.350	25.32	1.000	1.000	199.93	100	0.235	
37	37 13C-1,2,3,4-TCDF	2.02e6	0.79	NO	1.90	10.004	23.560	23.53	1.000	1.000	199.93	100	0.402	
38	38 13C-1,2,3,4,6,9-HxCDF	1.26e6	0.52	NO	1.00	10.004	34.000	33.98	1.000	1.000	199.93	100	0.521	
39	39 Total Tetra-Dioxins				0.947	10.004	24.620		0.000				0.0421	
40	40 Total Penta-Dioxins				0.942	10.004	29.960		0.000				0.0345	
41	41 Total Hexa-Dioxins				0.915	10.004	33.635		0.000		0.55996		0.160	0.560
42	42 Total Hepta-Dioxins				0.898	10.004	37.640		0.000		1.9946		0.149	1.99
43	43 Total Tetra-Furans				0.787	10.004	23.610		0.000				0.0262	
44	44 1st Func. Penta-Furans				0.910	10.004	27.090		0.000		0.00000		0.0120	0.256
45	45 Total Penta-Furans				0.910	10.004	29.275		0.000				0.0200	
46	46 Total Hexa-Furans				0.922	10.004	33.555		0.000		0.94337		0.112	0.943
47	47 Total Hepta-Furans				0.871	10.004	37.835		0.000		2.2472		0.119	2.25

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-6.qld

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

Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.407e4	1.341e4	7.178e2	6.537e2	1.10	NO	1.372e3	0.32728	0.32728	0.160
2	Total Hexa-Dioxins	33.81	8.907e3	8.118e3	5.006e2	4.745e2	1.05	NO	9.751e2	0.23268	0.23268	0.160

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.30	2.423e4	2.158e4	1.955e3	1.976e3	0.99	NO	3.930e3	1.2283	1.2283	0.149
2	1,2,3,4,6,7,8-HpCDD	38.33	1.374e4	1.553e4	1.187e3	1.265e3	0.94	NO	2.452e3	0.76635	0.76635	0.149

**Tetra-Furans**

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

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.16	1.979e4	1.275e4	1.343e3	7.414e2	1.81	YES	0.000e0	0.00000	0.25617	0.0269

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-6.qld

Last Altered: Friday, May 01, 2020 3:50:44 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 3:51:19 PM Pacific Daylight Time

12. ID: 200 Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.46	9.355e3	9.577e3	5.295e2	4.850e2	1.09	NO	1.015e3	0.19444	0.19444	0.112
2	Total Hexa-Furans	32.61	1.808e4	1.939e4	9.708e2	8.593e2	1.13	NO	1.830e3	0.35075	0.35075	0.112
3	Total Hexa-Furans	33.16	1.825e4	1.860e4	1.111e3	9.668e2	1.15	NO	2.078e3	0.39818	0.39818	0.112

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.92	3.633e4	3.106e4	2.843e3	2.504e3	1.14	NO	5.346e3	1.3941	1.3941	0.0991
2	Total Hepta-Furans	37.52	1.629e4	1.575e4	1.328e3	1.279e3	1.04	NO	2.607e3	0.85308	0.85308	0.119

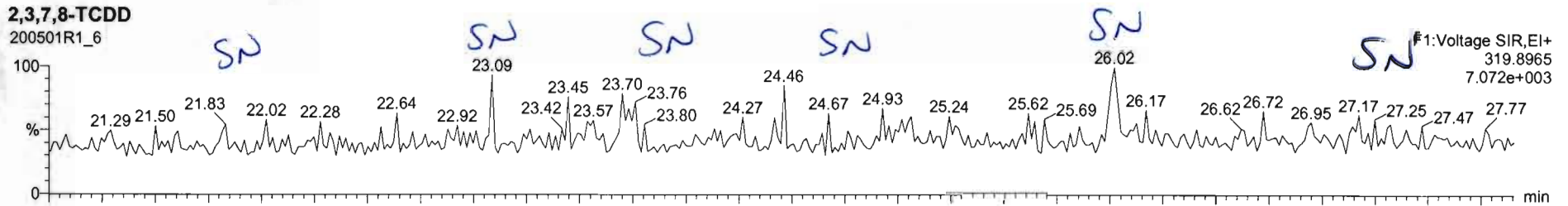
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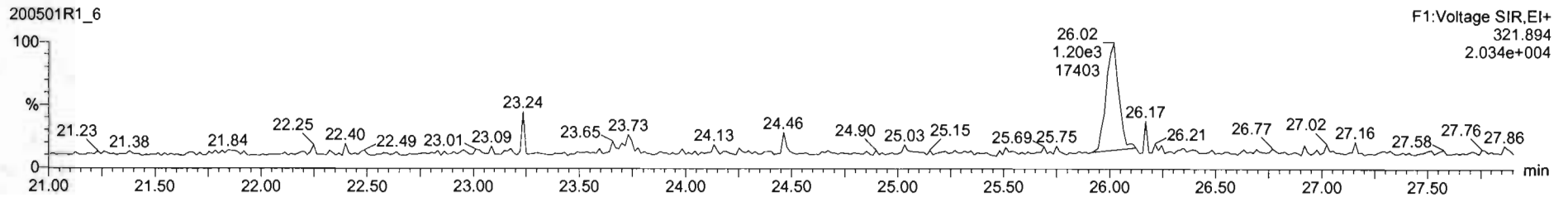
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Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421

2,3,7,8-TCDD  
200501R1\_6

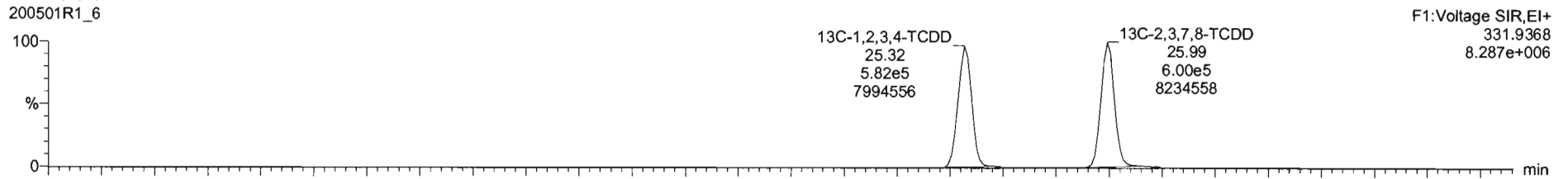


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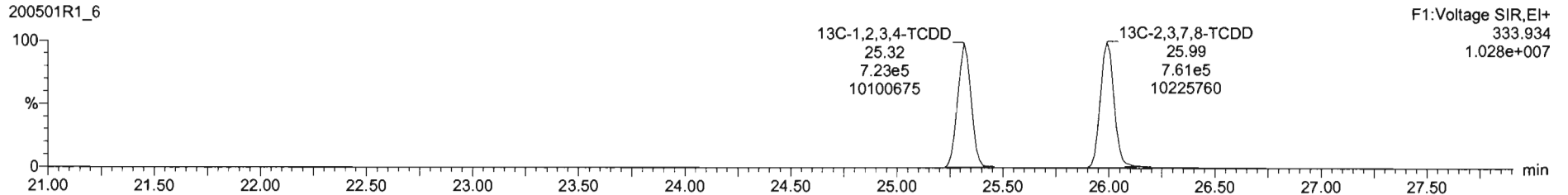


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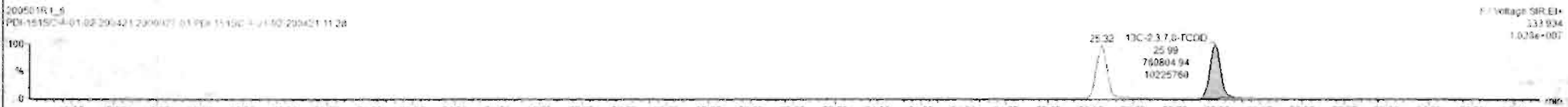


200501R1\_6



Name	Resp	RA	dy	RRF	wVcl	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.004					0.0421	
40 Total Penta-Dioxins				0.9425	10.004					0.0345	
41 Total Hexa-Dioxins				0.9145	10.004			0.322		0.160	0.454
42 Total Hepta-Dioxins				0.8976	10.004			1.23		0.149	1.87
43 Total Tetra-Furans				0.7071	10.004					0.0282	
44 1st Func. Penta-Furans				0.9102	10.004			0.000		0.0120	0.246
45 Total Penta-Furans				0.9102	10.004			0.000		0.0200	0.0493
46 Total Hexa-Furans				0.9217	10.004			0.743		0.112	0.919
47 Total Hepta-Furans				0.8712	10.004			2.25		0.119	2.25

Name	RT	m1 Resp	m2 Resp	RA	dy	EMPC	Conc
1							





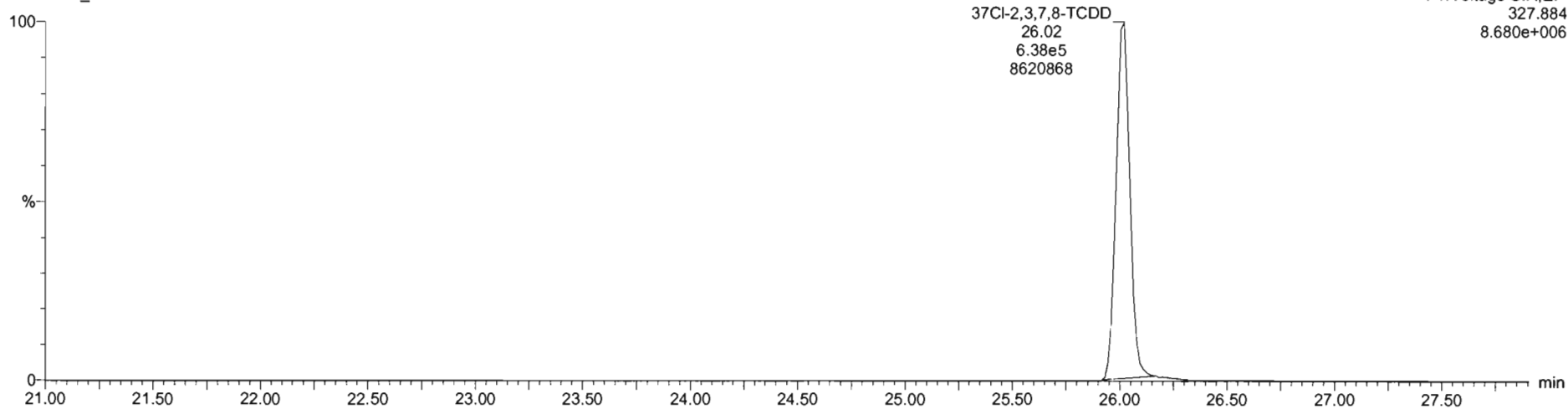
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Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421

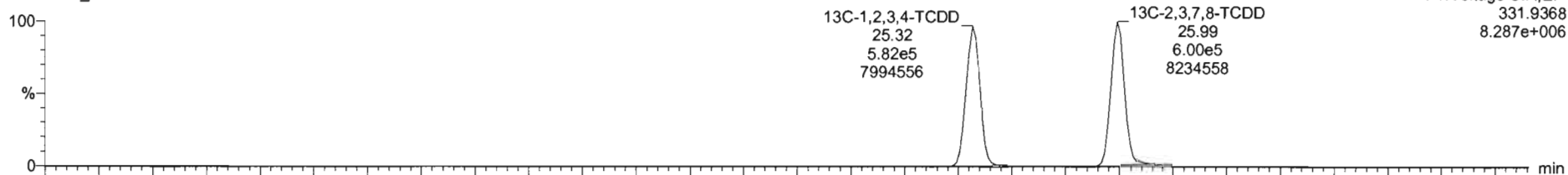
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200501R1\_6

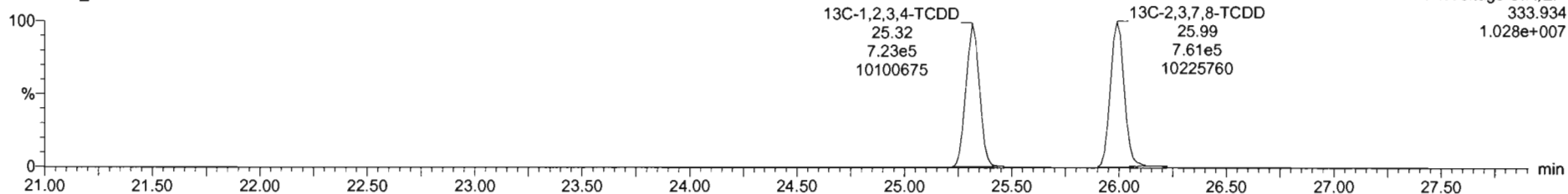


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200501R1\_6



200501R1\_6



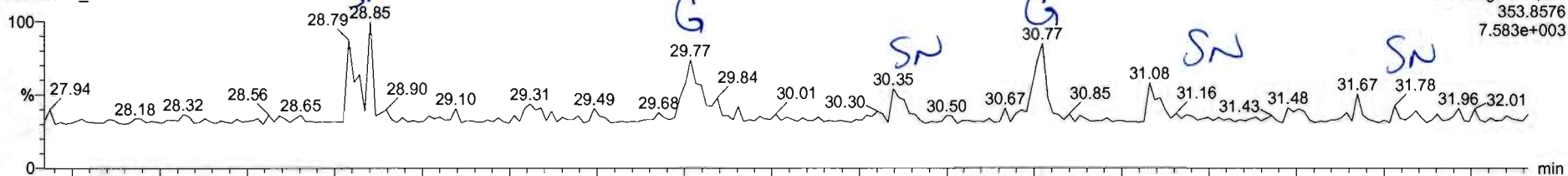
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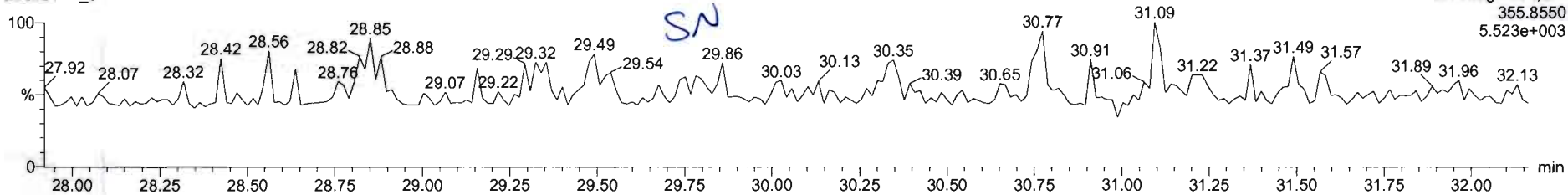
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1,2,3,7,8-PeCDD

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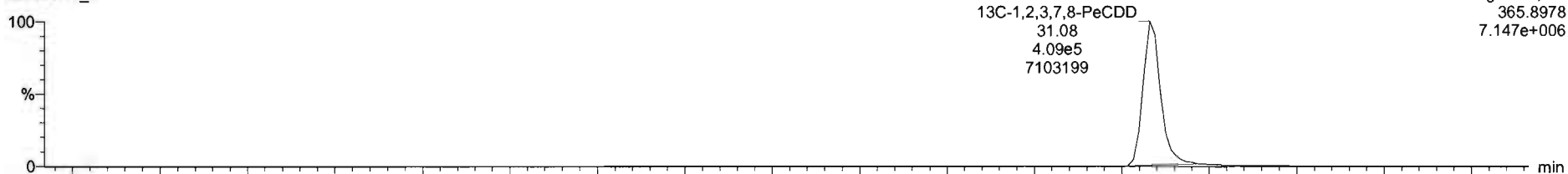


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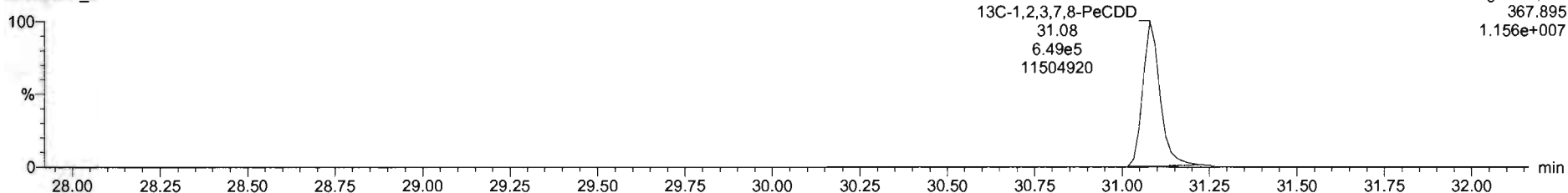


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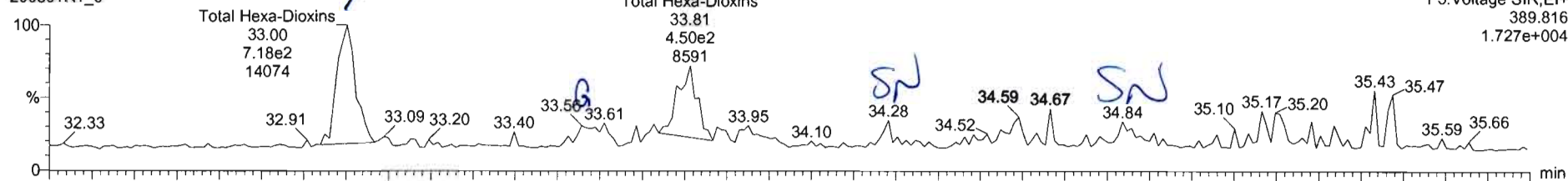
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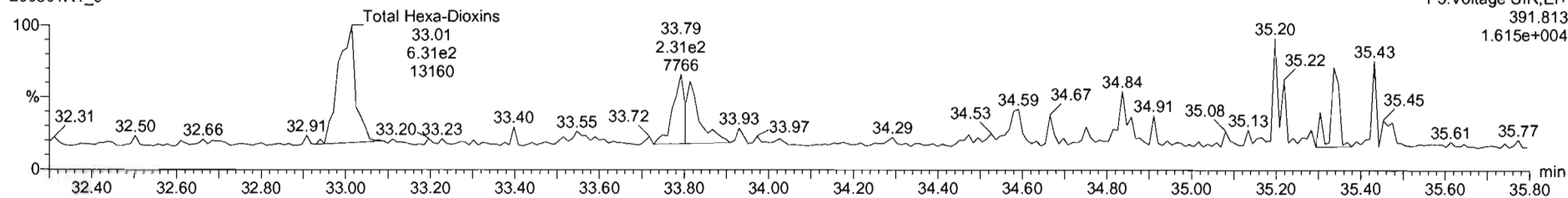
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1,2,3,4,7,8-HxCDD

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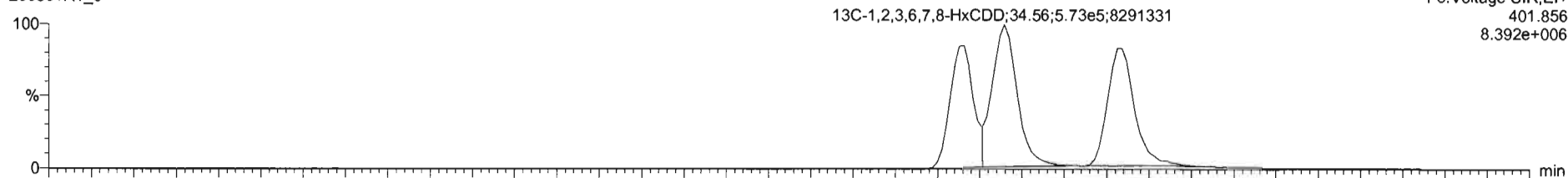


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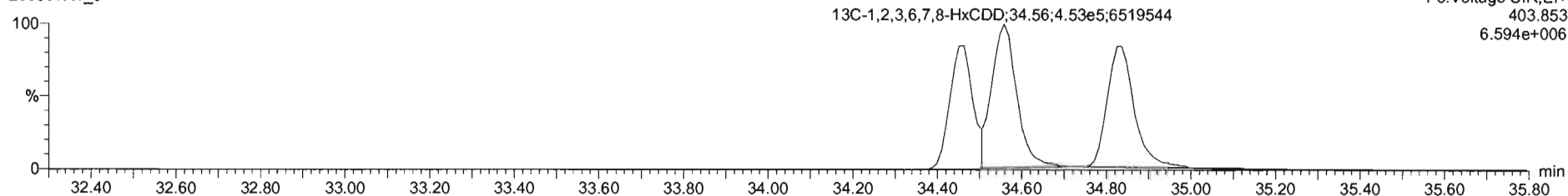


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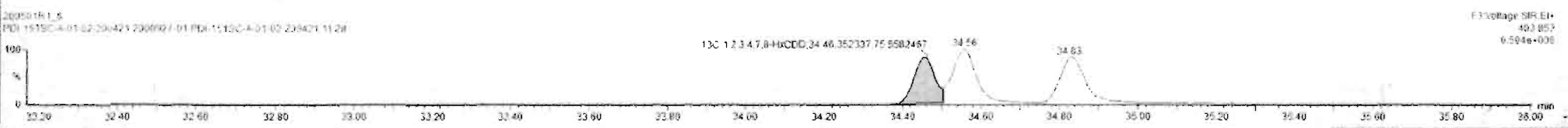
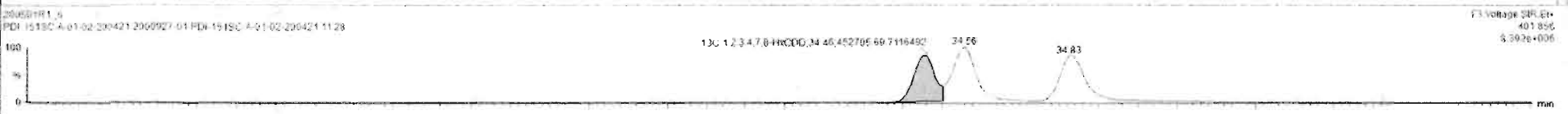
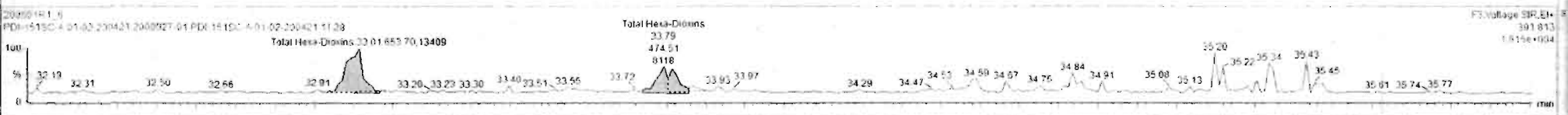
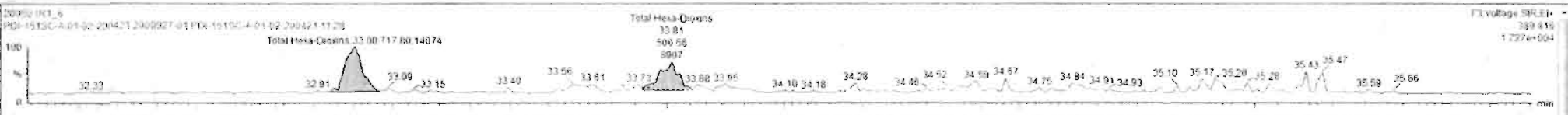


200501R1\_6



Name	Resp	RA	nly	RRF	w/wol	RT	RRT	Conc	%rec	DL	ENPC
39 Total Tetra-Dioxins				0.9475	10.004					0.0421	
40 Total Penta-Dioxins				0.9425	10.004					0.0345	
41 Total Hexa-Dioxins				0.9145	10.004			0.560		0.160	0.560
42 Total Hepta-Dioxins				0.6979	10.004			1.22		0.149	1.07
43 Total Tetra-Furans				0.7871	10.004					0.0262	
44 1st Furan: Penta-Furans				0.9102	10.004			0.000		0.0120	0.254
45 Total Penta-Furans				0.9102	10.004			0.000		0.0200	0.9493
46 Total Hexa-Furans				0.9217	10.004			0.742		0.112	0.919
47 Total Hepta-Furans				0.8712	10.004			2.22		0.115	2.25

Name	RT	m1 Resp	m2 Resp	RA	nly	ENPC	Conc
1 Total Hexa-Dioxins	33.00	7.176e2	6.537e2	1.10	NO	0.32728	0.32728
2 Total Hexa-Dioxins	33.81	8.006e2	4.745e2	1.05	NO	0.23298	0.23298



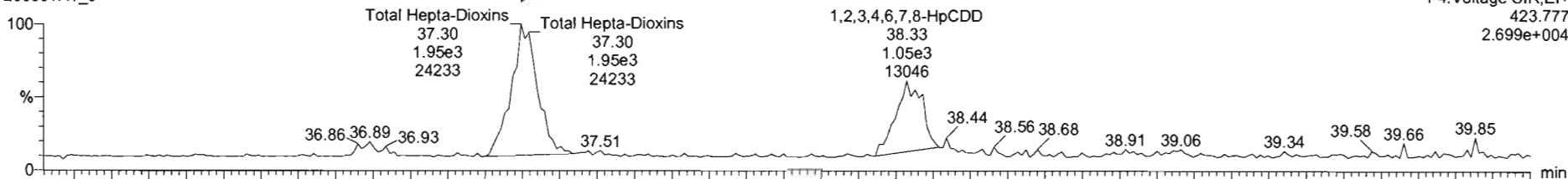
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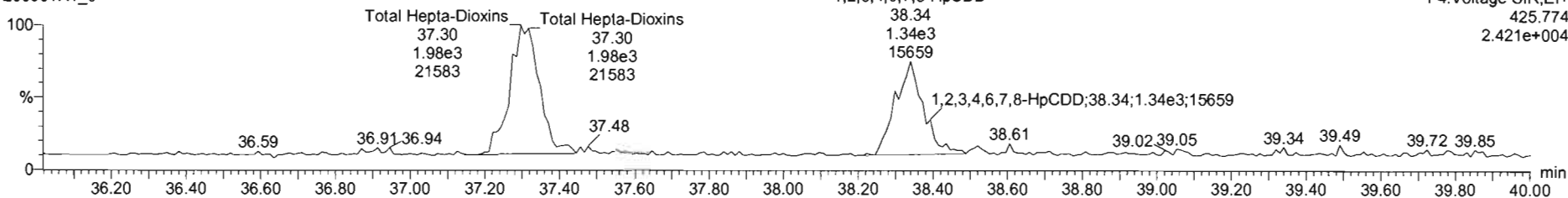
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1,2,3,4,6,7,8-HpCDD

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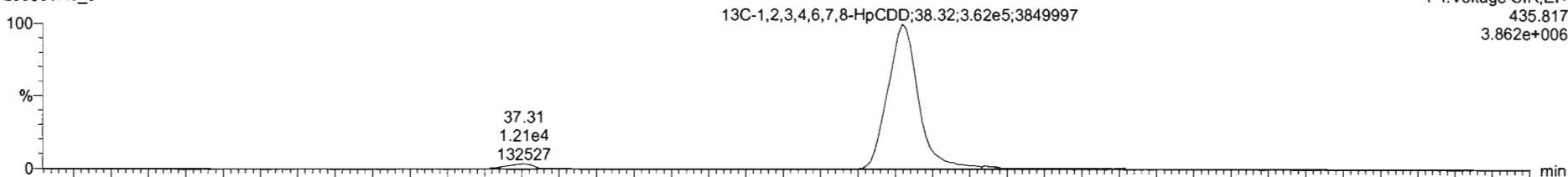


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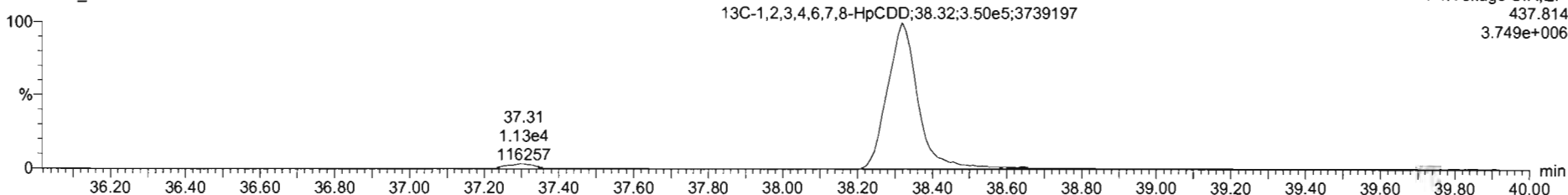


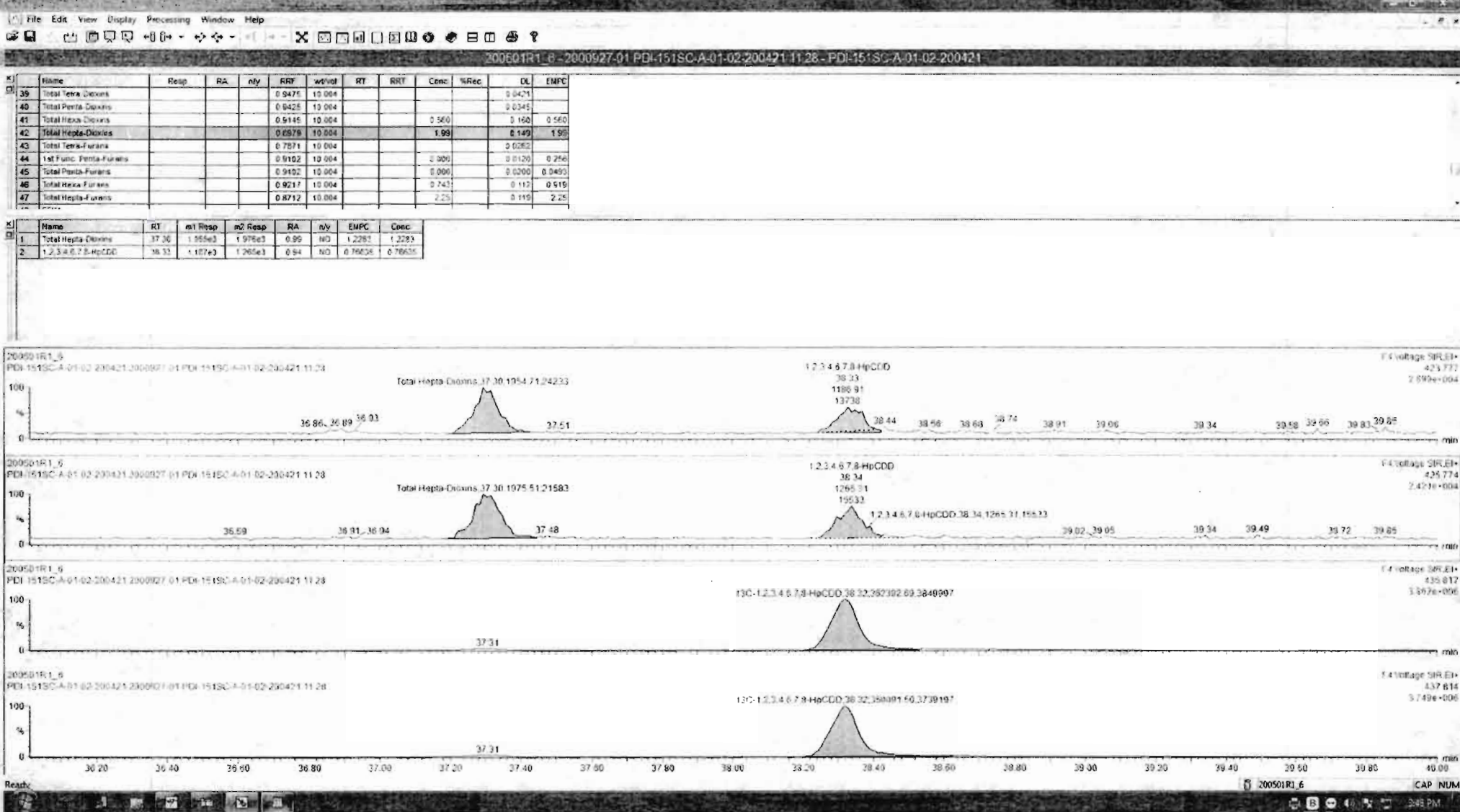
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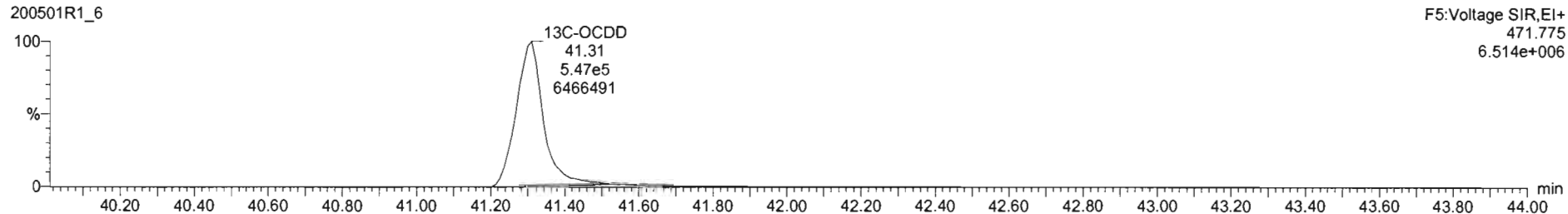
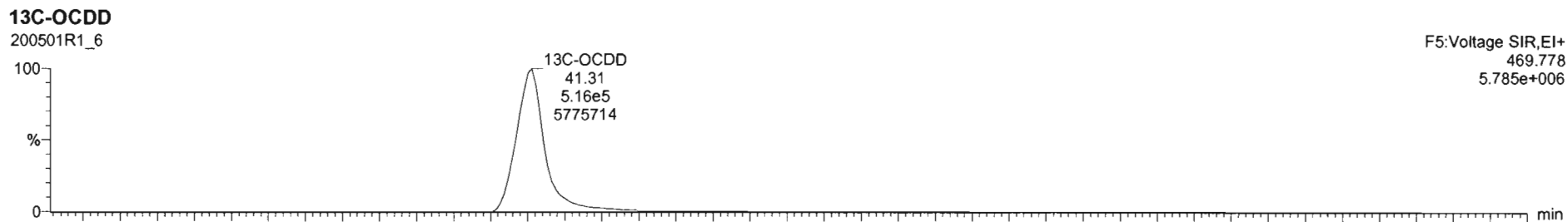
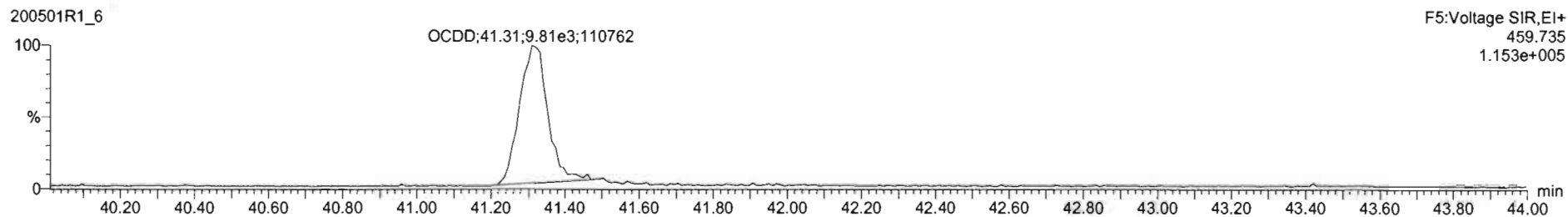
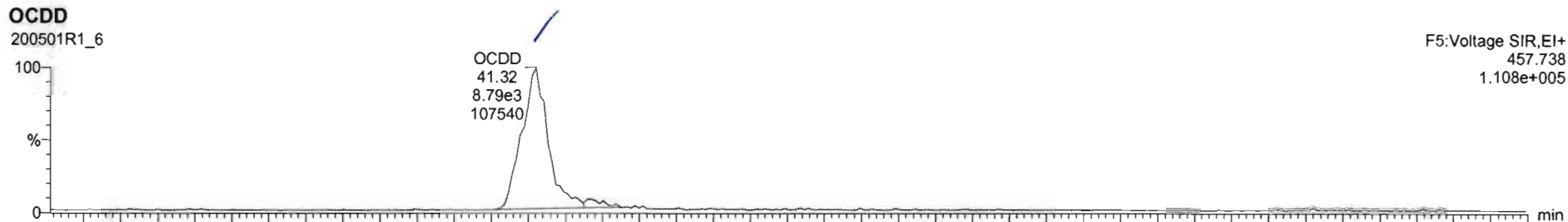


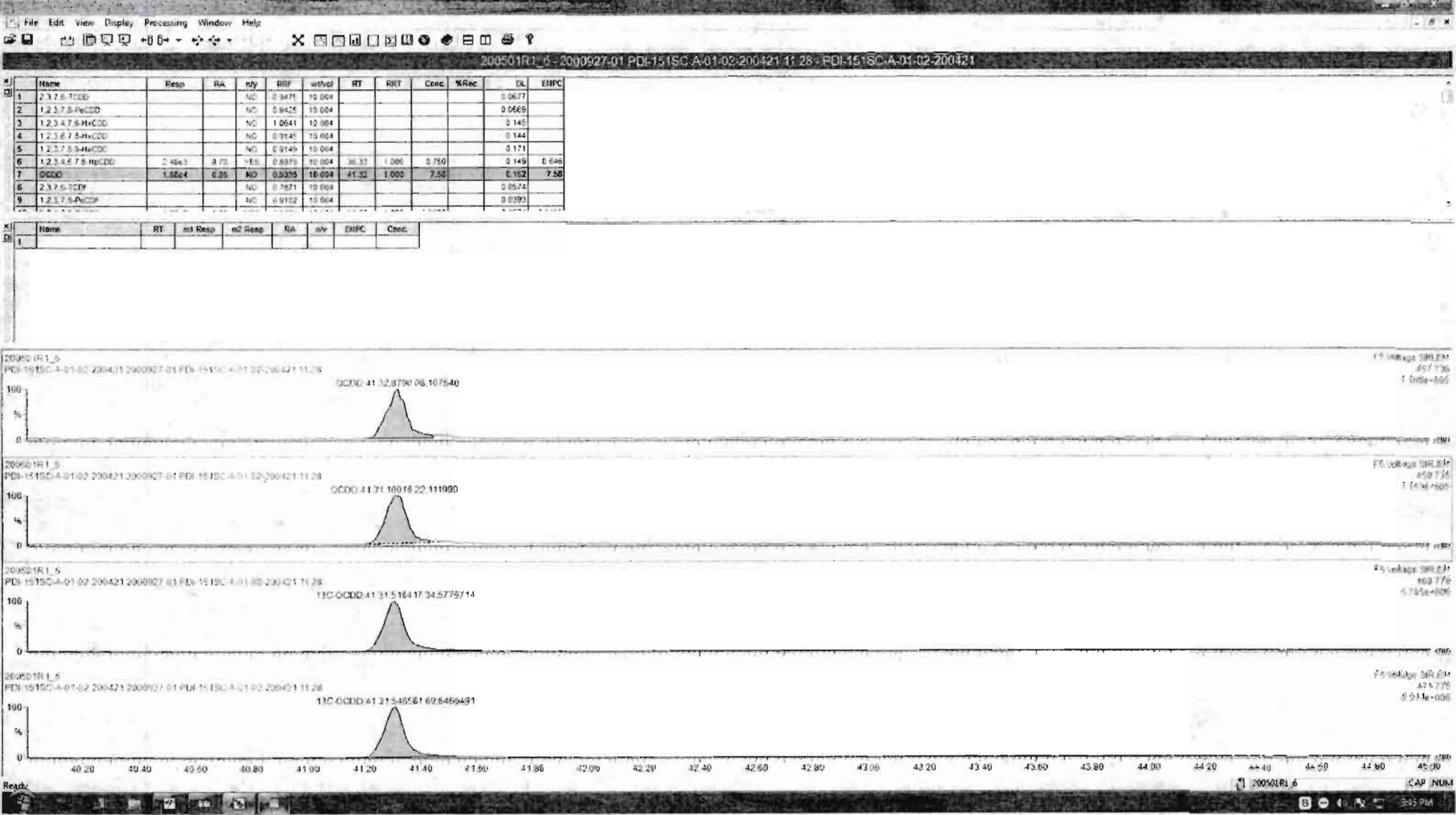


Dataset: Untitled

Last Altered: Friday, May 01, 2020 1:42:38 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:43:02 PM Pacific Daylight Time

Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421





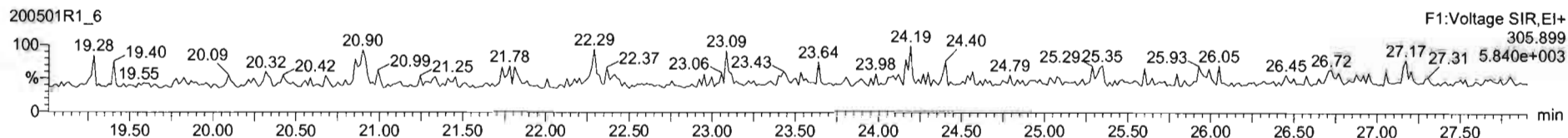
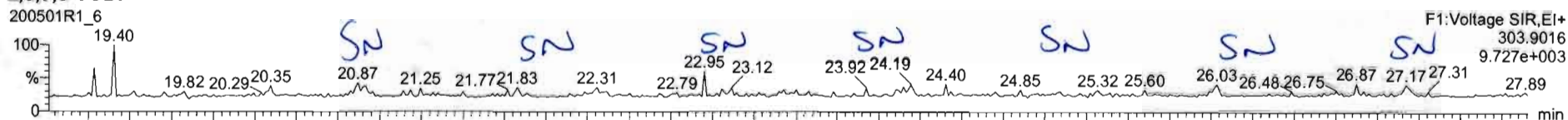


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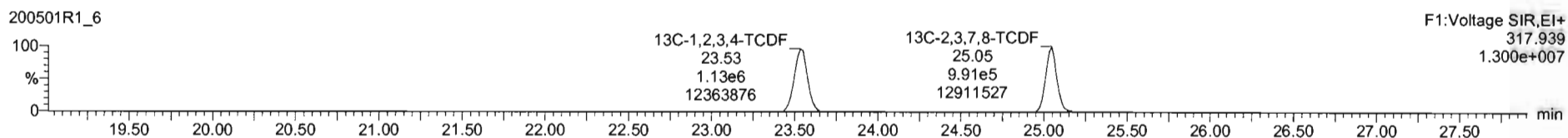
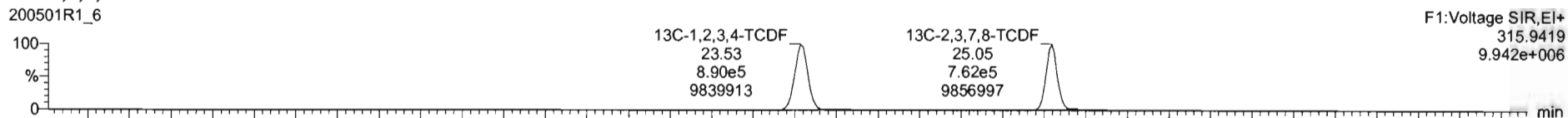
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Printed: Friday, May 01, 2020 1:43:02 PM Pacific Daylight Time

Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421

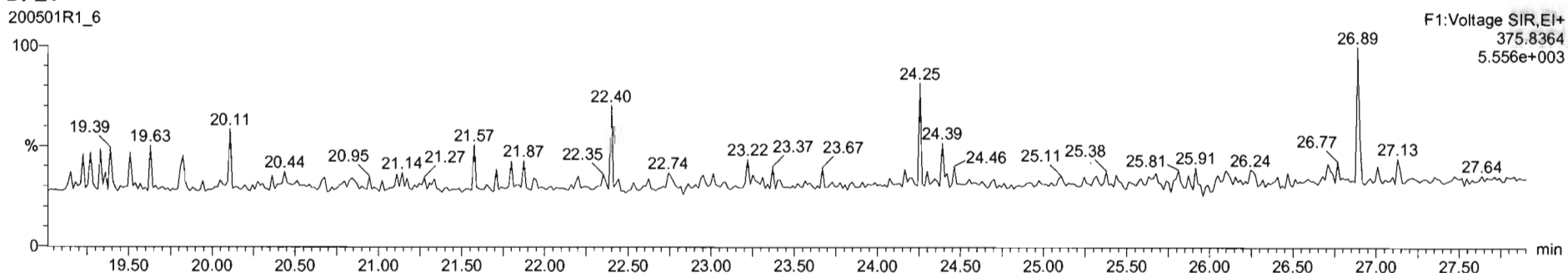
**2,3,7,8-TCDF**



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



**DPE1**



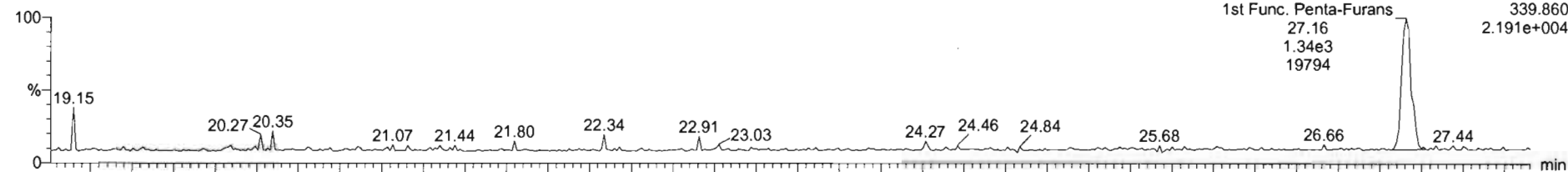
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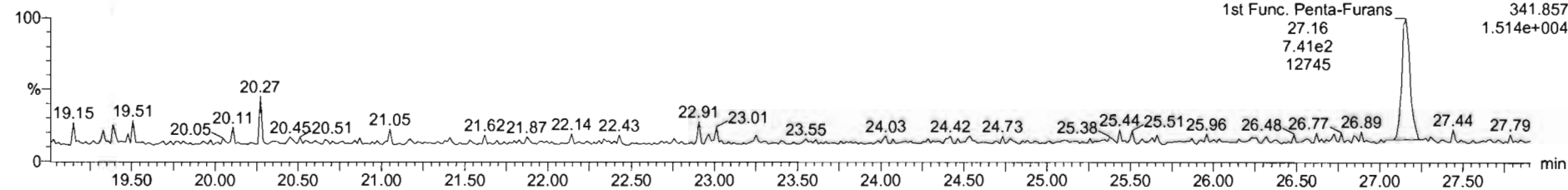
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1st Func. Penta-Furans

200501R1\_6

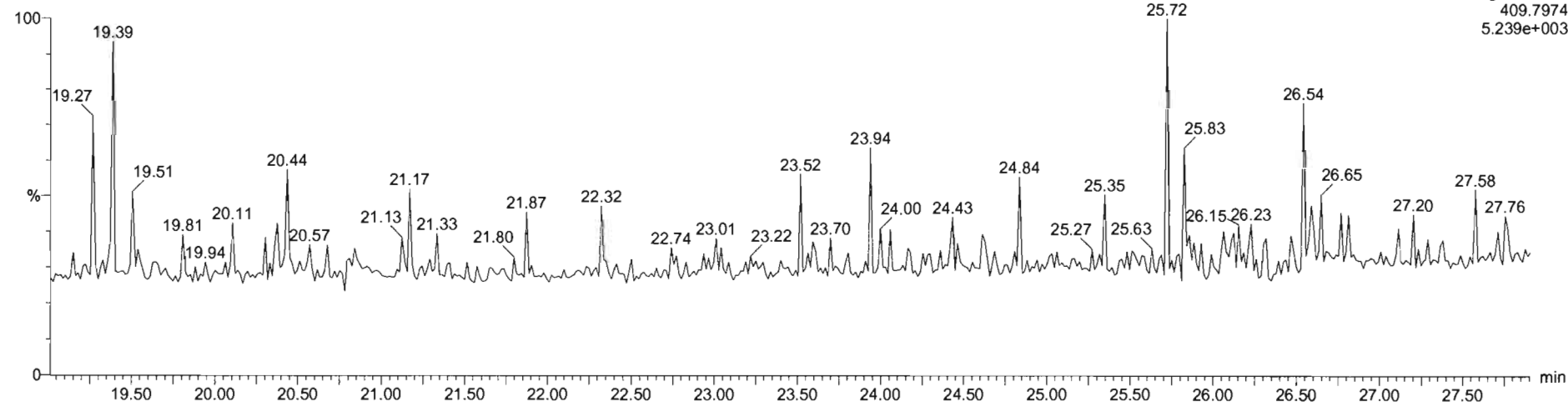


200501R1\_6



DPE6

200501R1\_6

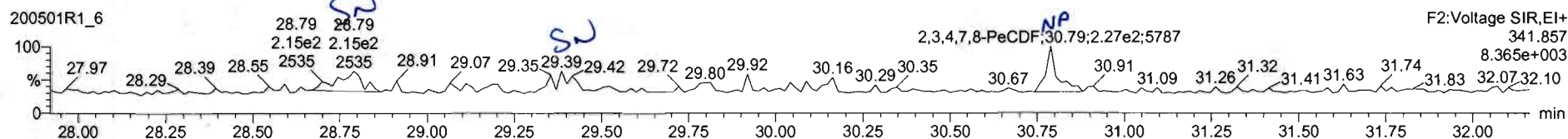
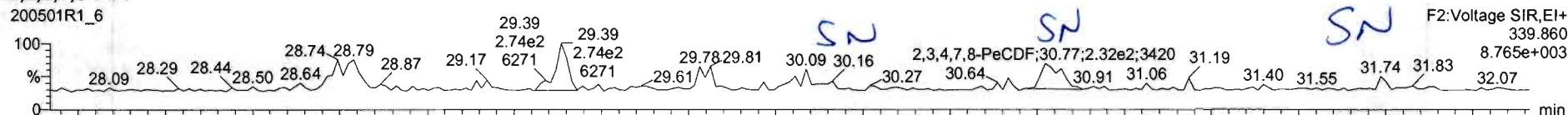


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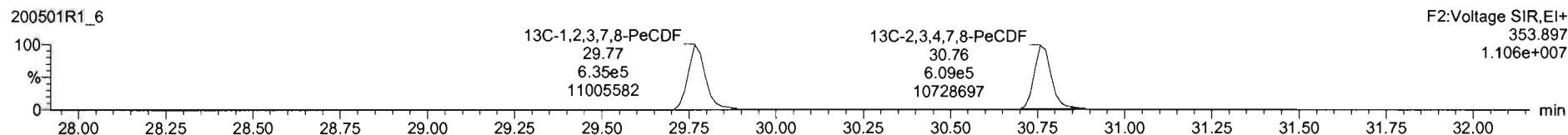
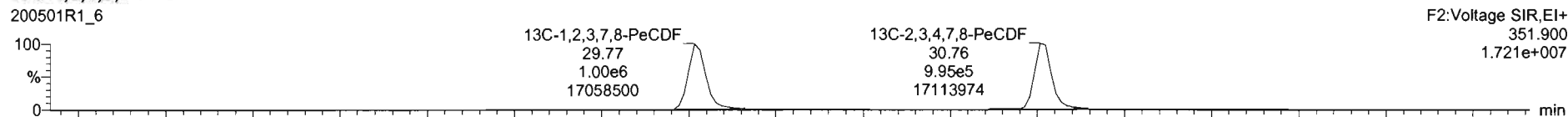
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Printed: Friday, May 01, 2020 1:43:02 PM Pacific Daylight Time

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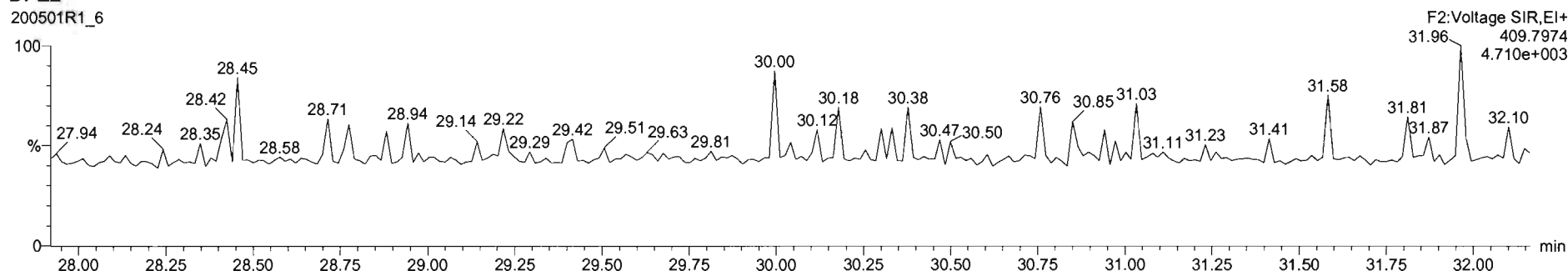
**1,2,3,7,8-PeCDF**



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



**DPE2**

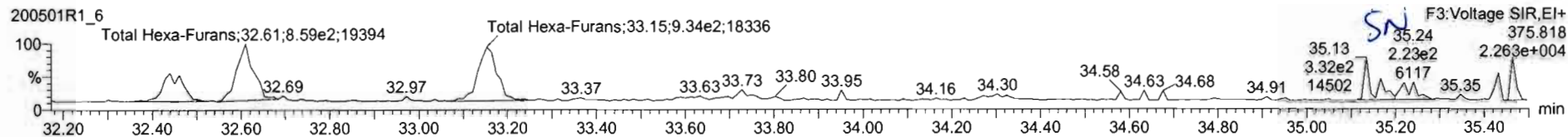
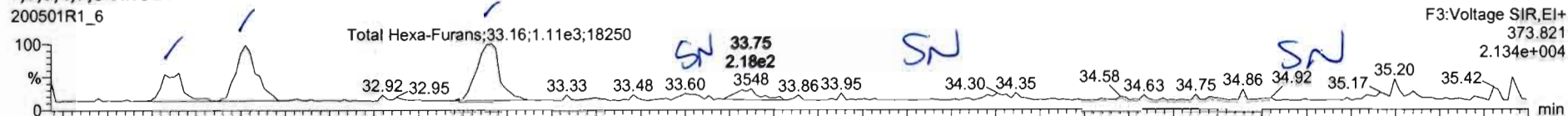


Dataset: Untitled

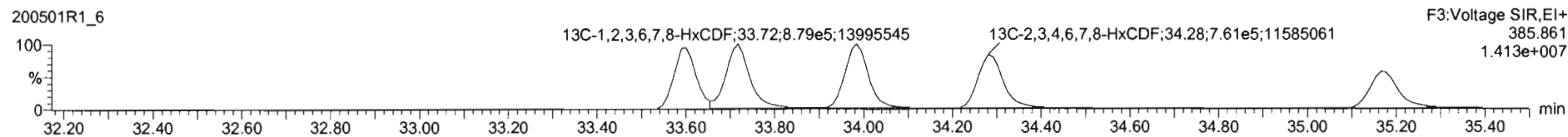
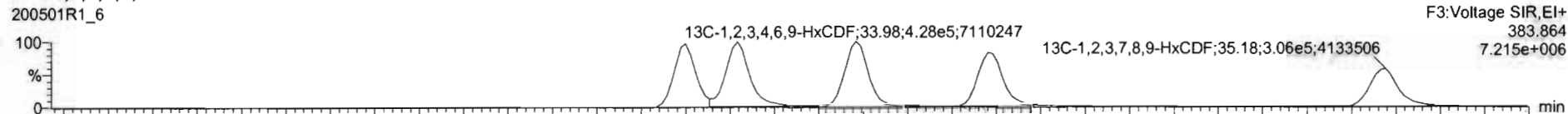
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Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421

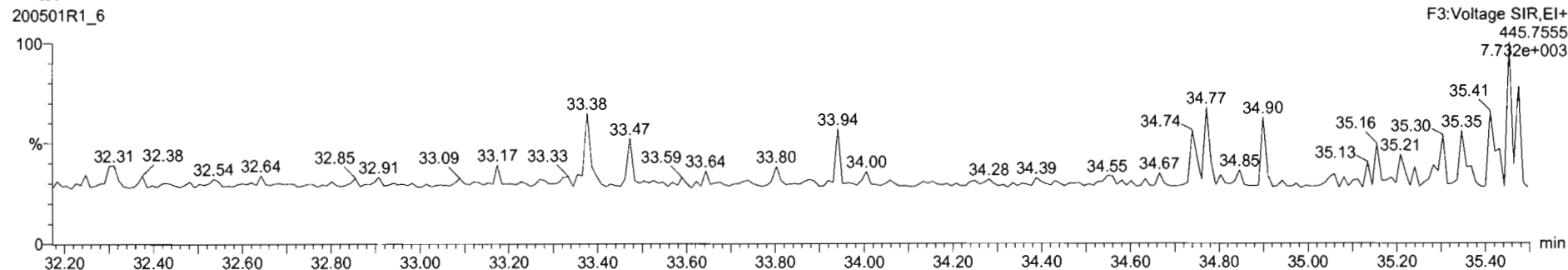
1,2,3,4,7,8-HxCDF



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



DPE3





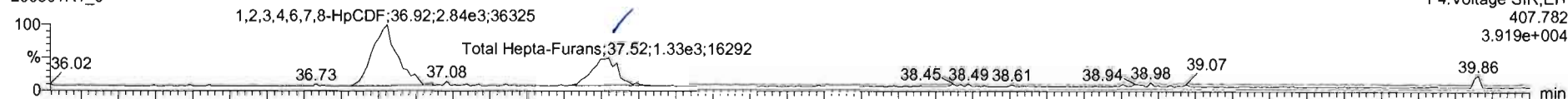
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Printed: Friday, May 01, 2020 1:43:02 PM Pacific Daylight Time

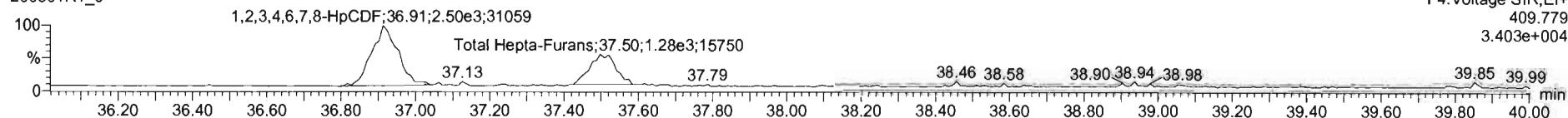
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**1,2,3,4,6,7,8-HpCDF**

200501R1\_6

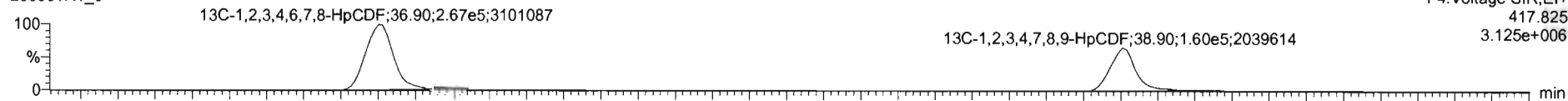


200501R1\_6

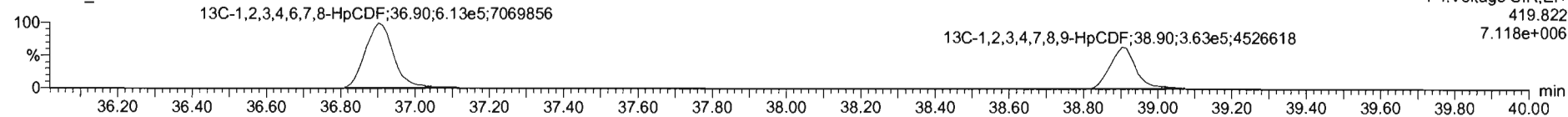


**13C-1,2,3,4,6,7,8-HpCDF**

200501R1\_6

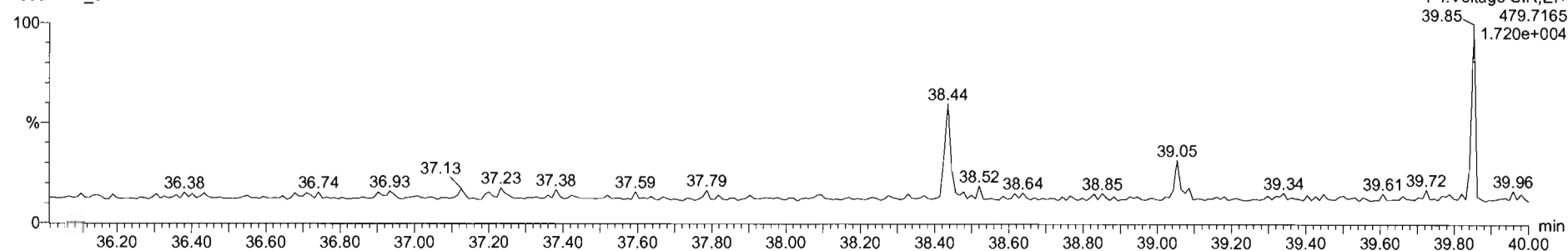


200501R1\_6



**DPE4**

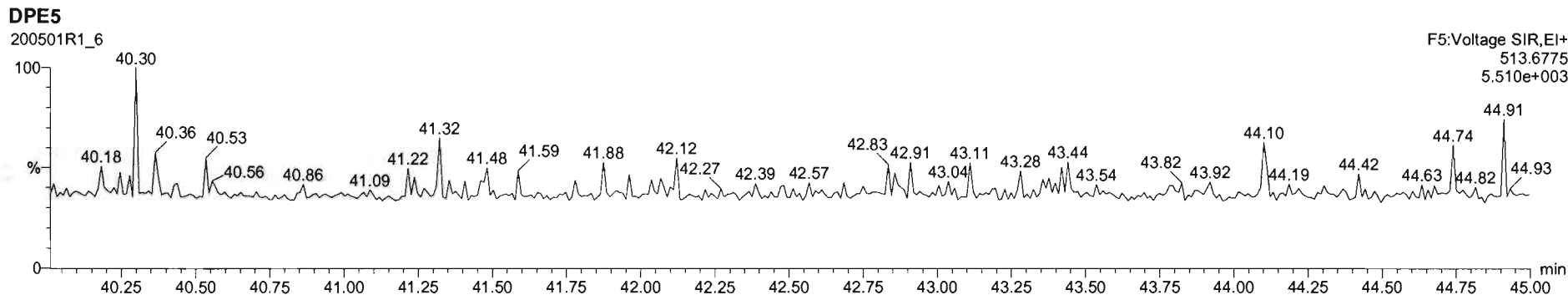
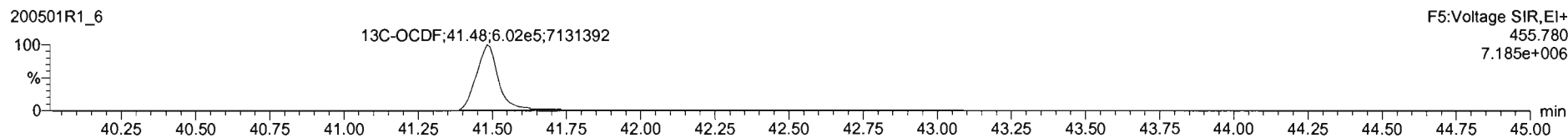
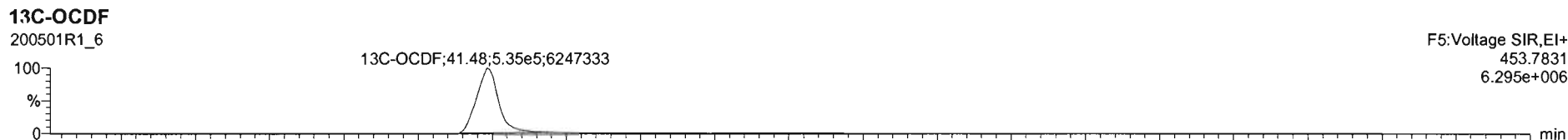
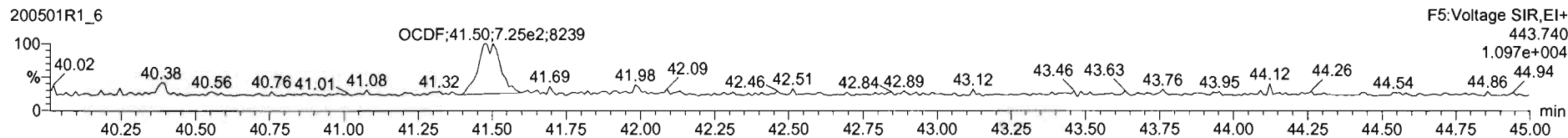
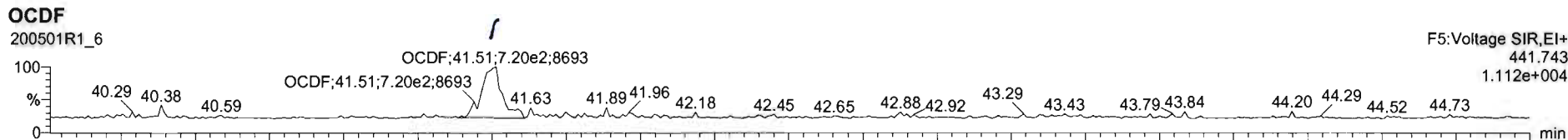
200501R1\_6



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Last Altered: Friday, May 01, 2020 1:42:38 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:43:02 PM Pacific Daylight Time

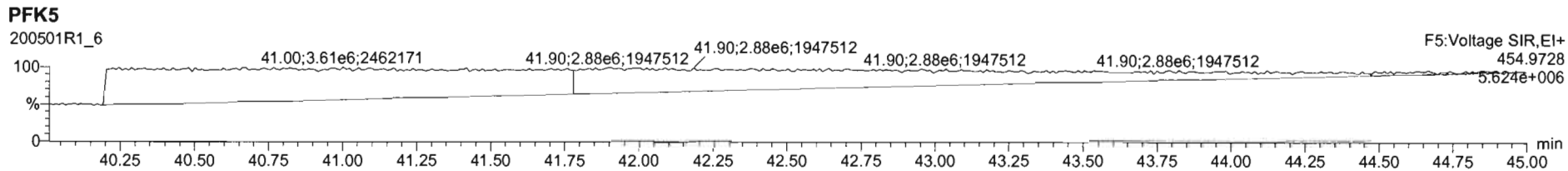
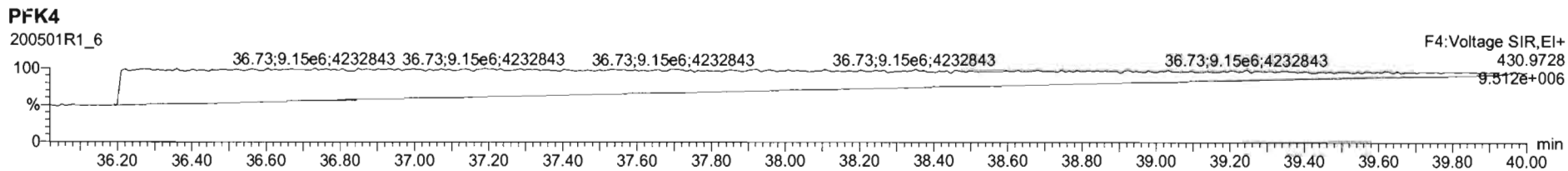
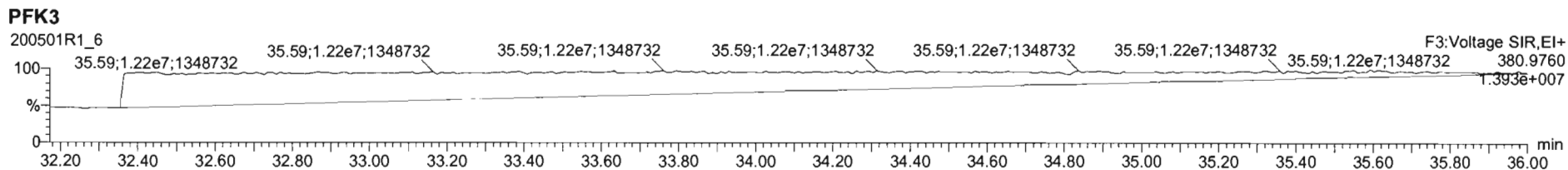
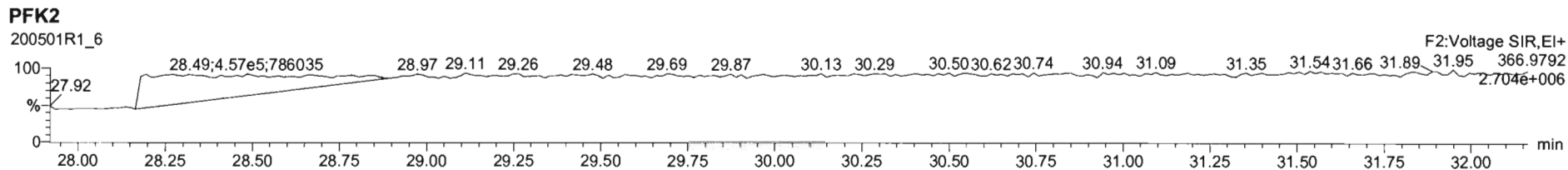
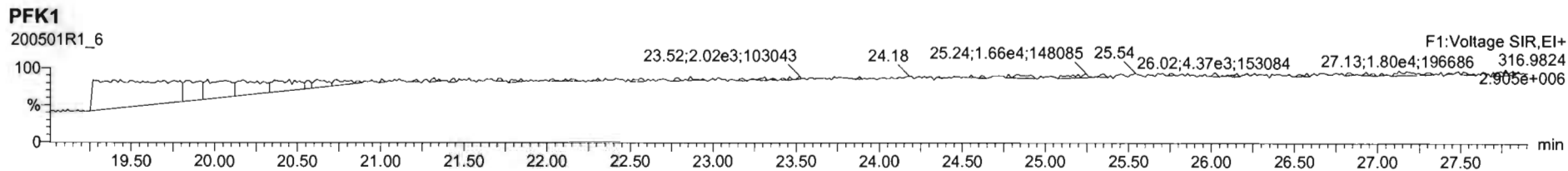
Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421



Dataset: Untitled

Last Altered: Friday, May 01, 2020 1:42:38 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 1:43:02 PM Pacific Daylight Time

Name: 200501R1\_6, Date: 01-May-2020, Time: 12:54:32, ID: 2000927-01 PDI-151SC-A-01-02-200421 11.28, Description: PDI-151SC-A-01-02-200421





Dataset: U:\VG12.PRO\Results\200501R1\200501R1-5.qld

Last Altered: Friday, May 01, 2020 3:53:16 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 3:53:23 PM Pacific Daylight Time

*GPB 05/01/2020*

*C7 05/05/2020*

Method: Untitled 29 Apr 2020 14:28:02

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

Name: 200501R1\_5, Date: 01-May-2020, Time: 12:08:21, ID: B0D0264-DUP1 Duplicate 11.31, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.70e3	0.17	YES	0.947	<del>11.310</del> <i>10.030</i>	26.006	25.99	1.001	1.001	0.25355		0.0637	0.0854
2	2 1,2,3,7,8-PeCDD			NO	0.942	11.310	31.101		1.001				0.0511	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	11.310	34.462		1.000				0.0649	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	11.310	34.558		1.000				0.0659	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	11.310	34.835		1.000				0.0767	
6	6 1,2,3,4,6,7,8-HpCDD	2.62e3	1.01	NO	0.898	11.310	38.329	38.34	1.000	1.001	0.78683		0.117	0.787
7	7 OCDD	2.48e4	0.91	NO	0.933	11.310	41.311	41.31	1.000	1.000	9.3921		0.183	9.39
8	8 2,3,7,8-TCDF			NO	0.787	11.310	25.057		1.001				0.0473	
9	9 1,2,3,7,8-PeCDF			NO	0.910	11.310	29.788		1.001				0.0345	
10	10 2,3,4,7,8-PeCDF			NO	0.966	11.310	30.789		1.001				0.0313	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	11.310	33.589		1.000				0.0495	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	11.310	33.727		1.000				0.0493	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	11.310	34.316		1.001				0.0540	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	11.310	35.166		1.000				0.0799	
15	15 1,2,3,4,6,7,8-HpCDF	9.23e3	0.97	NO	0.871	11.310	36.939	36.91	1.001	1.000	2.2724		0.0622	2.27
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	11.310	38.904		1.000				0.0867	
17	17 OCDF	2.21e3	0.87	NO	0.802	11.310	41.481	41.51	1.000	1.001	0.89489		0.132	0.895
18	18 13C-2,3,7,8-TCDD	1.41e6	0.79	NO	1.16	11.310	25.969	25.98	1.026	1.027	174.70	87.6	0.189	
19	19 13C-1,2,3,7,8-PeCDD	1.13e6	0.64	NO	0.847	11.310	31.049	31.08	1.227	1.228	191.37	95.9	0.268	
20	20 13C-1,2,3,4,7,8-HxCDD	8.19e5	1.29	NO	0.750	11.310	34.462	34.45	1.014	1.014	169.12	84.8	0.438	
21	21 13C-1,2,3,6,7,8-HxCDD	1.09e6	1.27	NO	0.963	11.310	34.574	34.56	1.017	1.017	176.09	88.3	0.341	
22	22 13C-1,2,3,7,8,9-HxCDD	9.33e5	1.26	NO	0.838	11.310	34.843	34.83	1.025	1.025	172.58	86.5	0.392	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.39e5	1.10	NO	0.641	11.310	38.329	38.32	1.128	1.128	178.37	89.4	0.450	
24	24 13C-OCDD	1.13e6	0.94	NO	0.586	11.310	41.320	41.31	1.216	1.216	297.72	74.6	0.441	
25	25 13C-2,3,7,8-TCDF	1.93e6	0.78	NO	1.03	11.310	25.030	25.03	0.989	0.989	171.62	86.0	0.326	
26	26 13C-1,2,3,7,8-PeCDF	1.78e6	1.60	NO	0.845	11.310	29.741	29.77	1.176	1.177	194.07	97.3	0.425	
27	27 13C-2,3,4,7,8-PeCDF	1.69e6	1.58	NO	0.814	11.310	30.731	30.76	1.215	1.216	191.51	96.0	0.441	
28	28 13C-1,2,3,4,7,8-HxCDF	1.21e6	0.51	NO	1.00	11.310	33.602	33.59	0.989	0.988	186.18	93.3	0.493	
29	29 13C-1,2,3,6,7,8-HxCDF	1.35e6	0.51	NO	1.14	11.310	33.725	33.72	0.992	0.992	184.21	92.4	0.436	
30	30 13C-2,3,4,6,7,8-HxCDF	1.21e6	0.53	NO	1.02	11.310	34.292	34.28	1.009	1.009	182.80	91.6	0.484	
31	31 13C-1,2,3,7,8,9-HxCDF	9.69e5	0.49	NO	0.845	11.310	35.183	35.17	1.035	1.035	177.73	89.1	0.586	

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-5.qld

Last Altered: Friday, May 01, 2020 3:53:16 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 3:53:23 PM Pacific Daylight Time

Name: 200501R1\_5, Date: 01-May-2020, Time: 12:08:21, ID: B0D0264-DUP1 Duplicate 11.31, Description: Duplicate

*Geo 05/01/2020*

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.30e5	0.43	NO	0.771	14.716	36.912	36.90	1.086	1.086	186.79	93.6	0.488	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.41e5	0.43	NO	0.482	11.310	38.921	38.90	1.145	1.145	173.72	87.1	0.781	
34	34 13C-OCDF	1.23e6	0.85	NO	0.669	11.310	41.490	41.48	1.221	1.221	284.29	71.3	0.330	
35	35 37Cl-2,3,7,8-TCDD	6.71e5			1.10	11.310	25.999	26.00	1.028	1.028	87.413	110	0.0580	
36	36 13C-1,2,3,4-TCDD	1.39e6	0.81	NO	1.00	11.310	25.350	25.30	1.000	1.000	199.47	100	0.219	
37	37 13C-1,2,3,4-TCDF	2.16e6	0.80	NO	1.00	11.310	23.560	23.52	1.000	1.000	199.47	100	0.337	
38	38 13C-1,2,3,4,6,9-HxCDF	1.29e6	0.51	NO	1.00	11.310	34.000	33.98	1.000	1.000	199.47	100	0.495	
39	39 Total Tetra-Dioxins				0.947	11.310	24.620		0.000		0.00000		0.0405	0.0854
40	40 Total Penta-Dioxins				0.942	11.310	29.960		0.000				0.0233	
41	41 Total Hexa-Dioxins				0.915	11.310	33.635		0.000		0.59905		0.0722	0.599
42	42 Total Hepta-Dioxins				0.898	11.310	37.640		0.000		2.0124		0.117	2.01
43	43 Total Tetra-Furans				0.787	11.310	23.610		0.000				0.0220	
44	44 1st Func. Penta-Furans				0.910	11.310	27.090		0.000		0.37100		0.0246	0.371
45	45 Total Penta-Furans				0.910	11.310	29.275		0.000				0.0139	
46	46 Total Hexa-Furans				0.922	11.310	33.555		0.000		1.3746		0.0545	1.37
47	47 Total Hepta-Furans				0.871	11.310	37.835		0.000		3.7291		0.0764	3.73

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-5.qld

Last Altered: Friday, May 01, 2020 3:53:16 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 3:53:23 PM Pacific Daylight Time

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\ddb5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200501R1\_5, Date: 01-May-2020, Time: 12:08:21, ID: B0D0264-DUP1 Duplicate 11.31, Description: Duplicate

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	2,3,7,8-TCDD	25.99	3.423e3	1.841e4	2.497e2	1.454e3	0.17	YES	1.704e3	0.00000	0.085418	0.0637

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.634e4	1.539e4	9.105e2	7.648e2	1.19	NO	1.675e3	0.38502	0.38502	0.0722
2	Total Hexa-Dioxins	33.80	9.794e3	7.928e3	5.026e2	4.287e2	1.17	NO	9.313e2	0.21404	0.21404	0.0722

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.30	2.900e4	2.429e4	2.060e3	2.015e3	1.02	NO	4.076e3	1.2256	1.2256	0.117
2	1,2,3,4,6,7,8-HpCDD	38.34	1.448e4	1.303e4	1.313e3	1.304e3	1.01	NO	2.617e3	0.78683	0.78683	0.117

**Tetra-Furans**

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

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.14	2.728e4	1.502e4	1.777e3	1.161e3	1.53	NO	2.938e3	0.37100	0.37100	0.0246

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-5.qld

Last Altered: Friday, May 01, 2020 3:53:16 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 3:53:23 PM Pacific Daylight Time

Name: 200501R1\_5, Date: 01-May-2020, Time: 12:08:21, ID: B0D0264-DUP1 Duplicate 11.31, Description: Duplicate

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.44	1.695e4	1.382e4	9.097e2	7.810e2	1.16	NO	1.691e3	0.30900	0.30900	0.0545
2	Total Hexa-Furans	32.60	3.544e4	2.506e4	1.734e3	1.317e3	1.32	NO	3.051e3	0.55767	0.55767	0.0545
3	Total Hexa-Furans	33.15	2.955e4	2.967e4	1.498e3	1.281e3	1.17	NO	2.779e3	0.50794	0.50794	0.0545

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.91	5.900e4	5.728e4	4.555e3	4.677e3	0.97	NO	9.232e3	2.2724	2.2724	0.0622
2	Total Hepta-Furans	37.51	2.845e4	2.583e4	2.351e3	2.329e3	1.01	NO	4.680e3	1.4567	1.4567	0.0764

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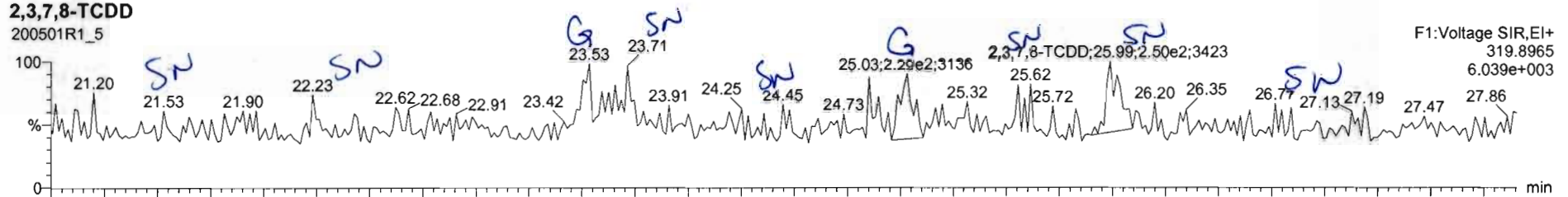
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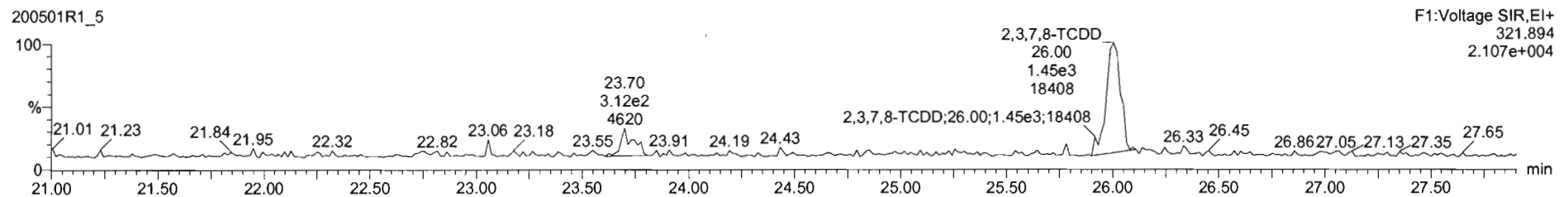
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**2,3,7,8-TCDD**

200501R1\_5

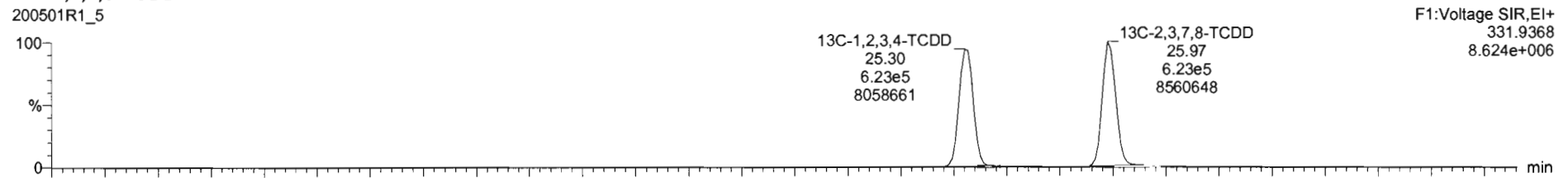


200501R1\_5

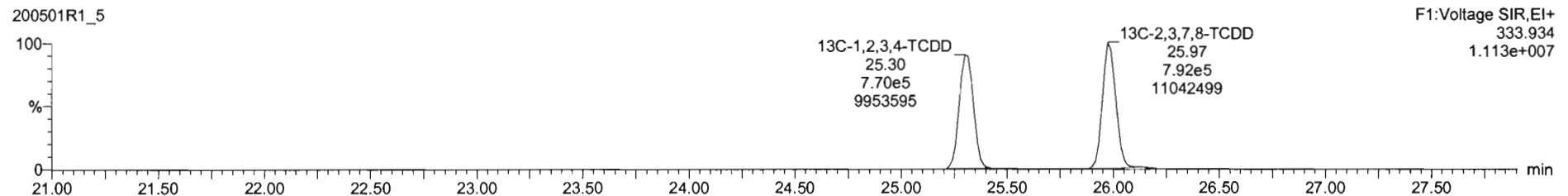


**13C-2,3,7,8-TCDD**

200501R1\_5



200501R1\_5



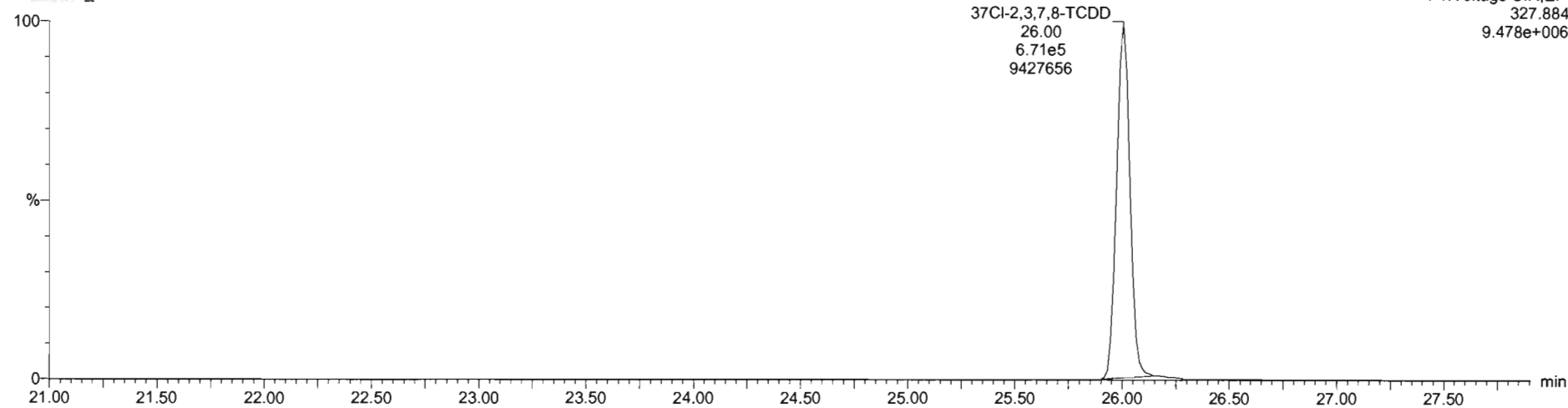
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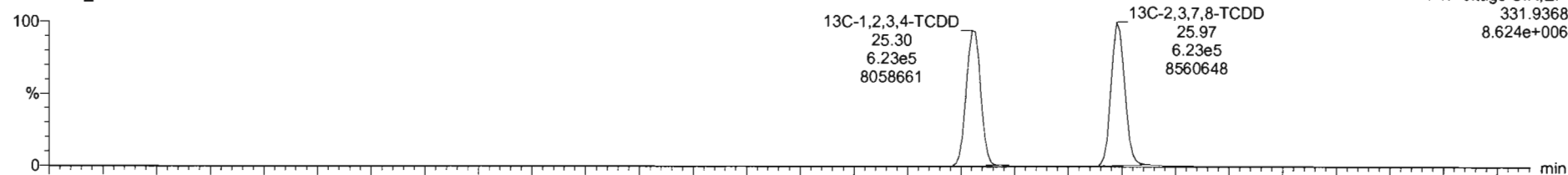
**37Cl-2,3,7,8-TCDD**

200501R1\_5

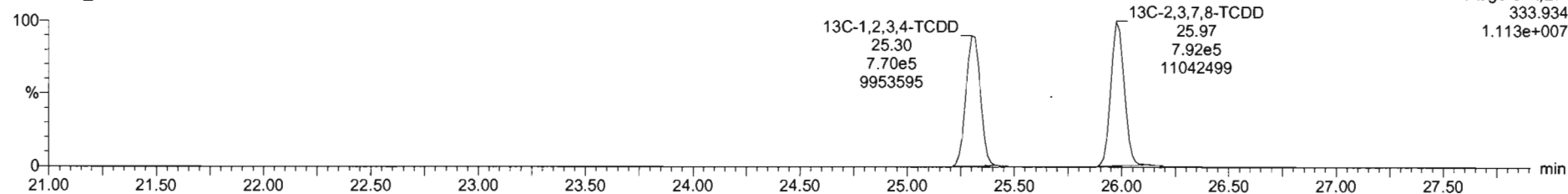


**13C-1,2,3,4-TCDD**

200501R1\_5



200501R1\_5



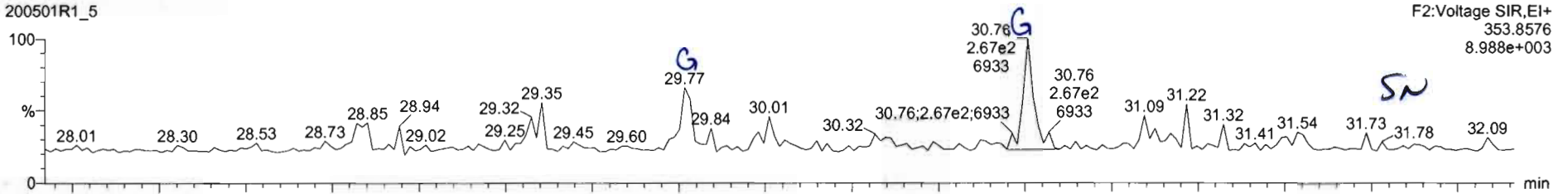
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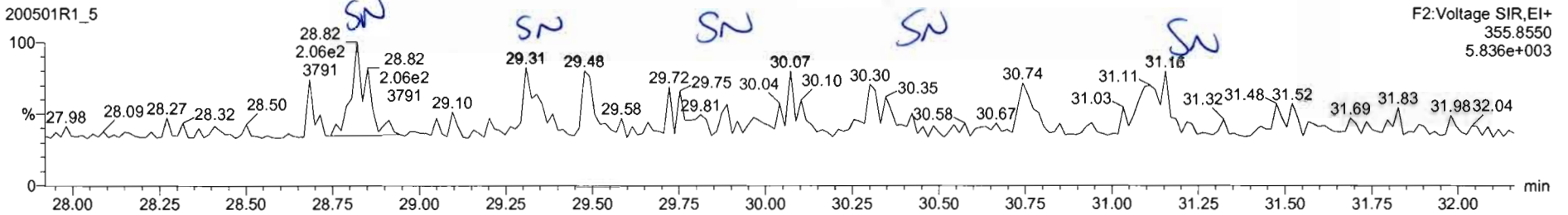
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1,2,3,7,8-PeCDD

200501R1\_5

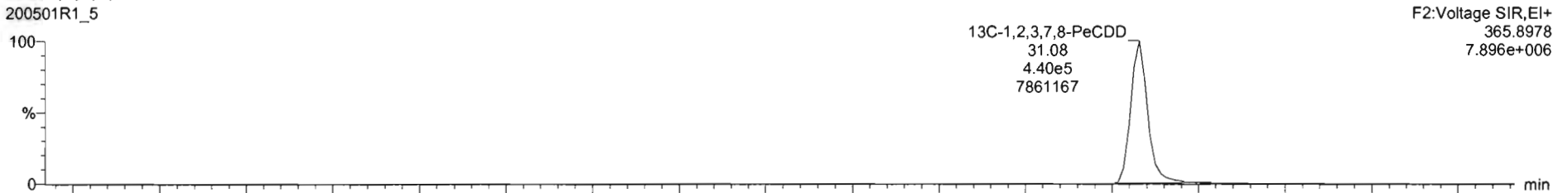


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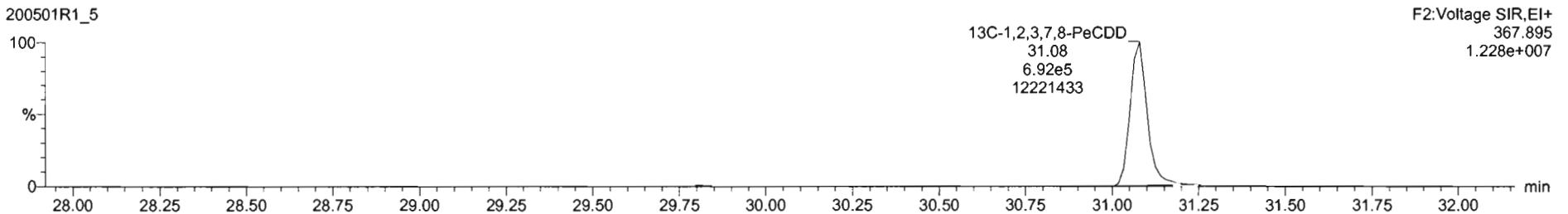


13C-1,2,3,7,8-PeCDD

200501R1\_5



200501R1\_5

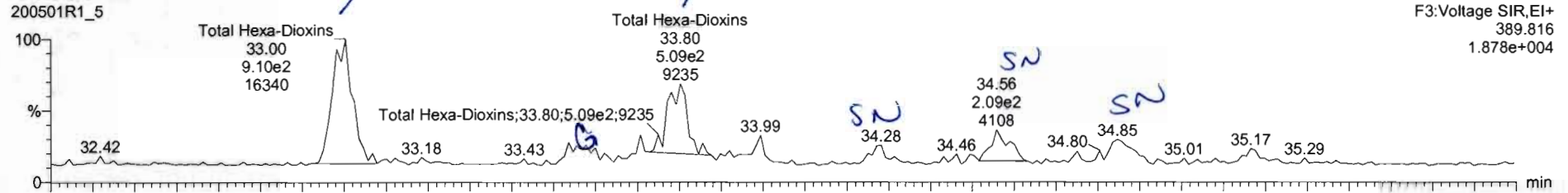


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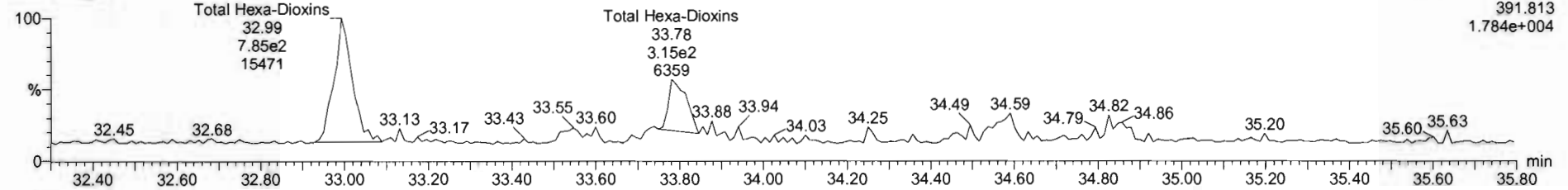
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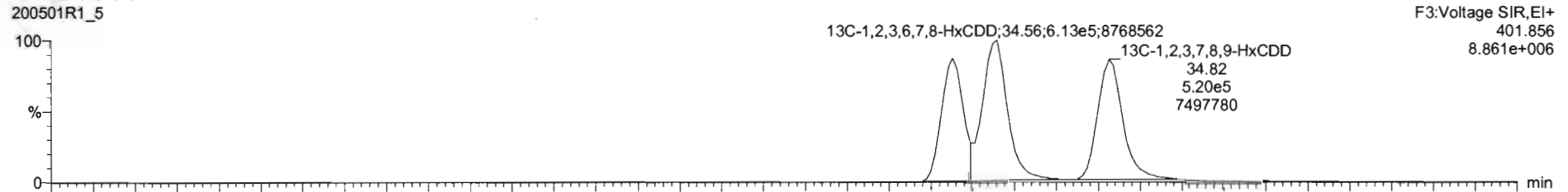
1,2,3,4,7,8-HxCDD



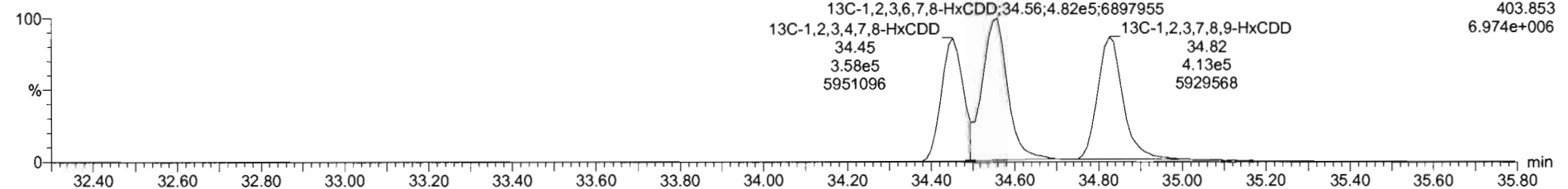
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13C-1,2,3,4,7,8-HxCDD



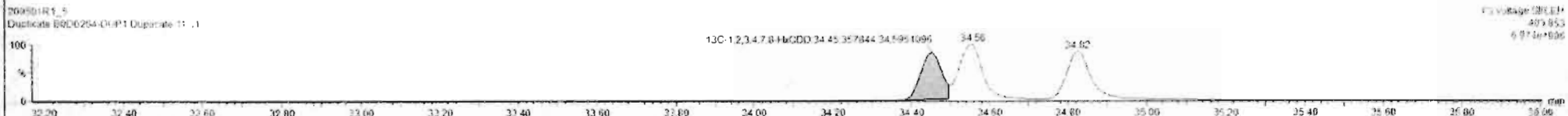
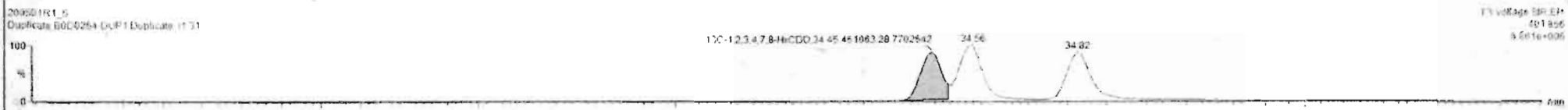
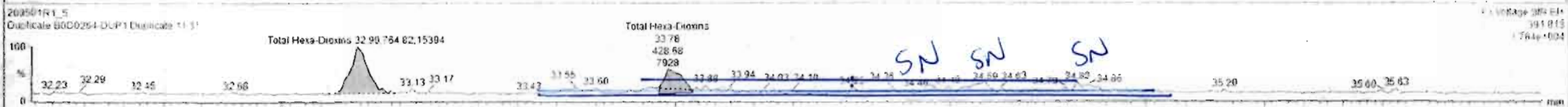
200501R1\_5





K1	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9425	11.310					0.0206	
41	Total Hexa-Dioxins				0.6145	11.310			0.531		0.0649	0.531
42	Total Hepta-Dioxins				0.8979	11.310			1.78		0.104	1.78
43	Total Tetra-Furans				0.7071	11.310					0.0105	
44	1st Func. Penta-Furans				0.9102	11.310			0.329		0.0215	0.329
45	Total Penta-Furans				0.9102	11.310			6.0636		0.0391	0.110
46	Total Hexa-Furans				0.9217	11.310			1.24		0.0483	1.24
47	Total Hepta-Furans				0.6712	11.310			3.37		0.0677	2.37
48	PFK1											

K1	Name	RT	net Resp	nd Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.00	5.105e2	7.645e2	1.15	NO	0.34132	0.34133
2	Total Hexa-Dioxins	33.00	4.529e2	4.297e2	1.17	NO	0.18975	0.18975



Dataset: Untitled

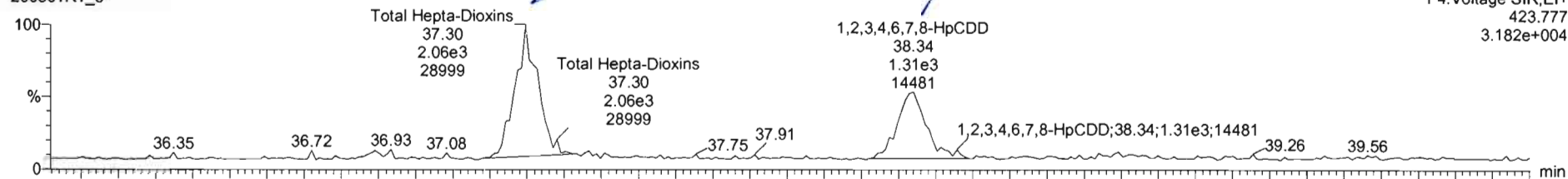
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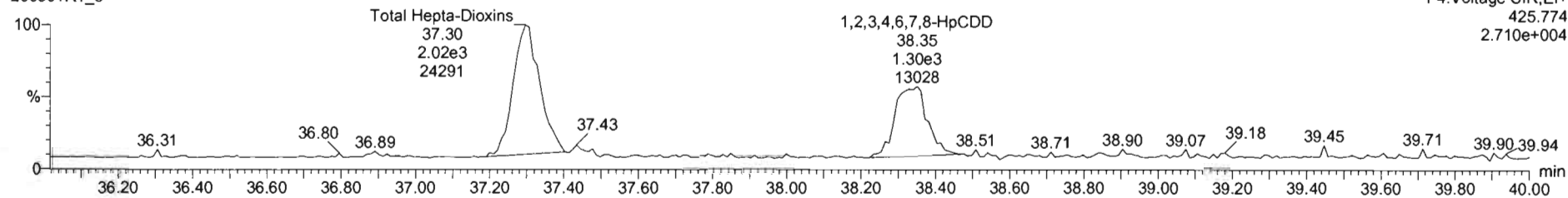
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1,2,3,4,6,7,8-HpCDD

200501R1\_5

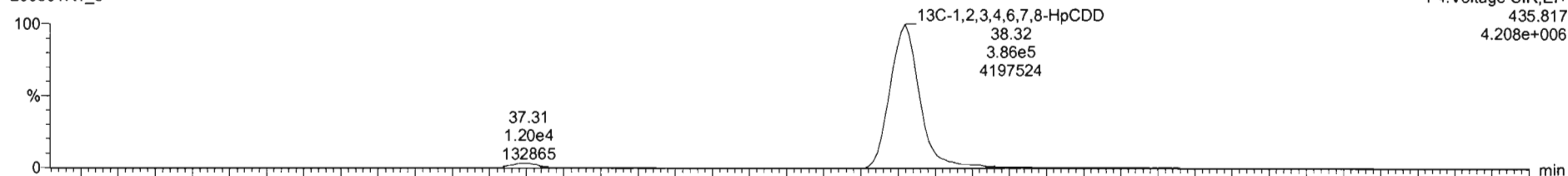


200501R1\_5

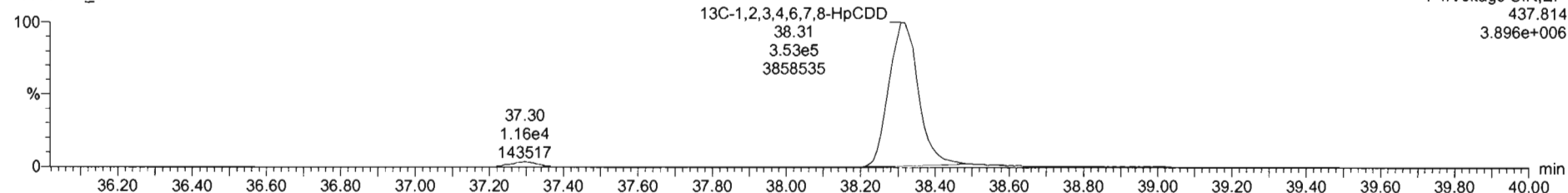


13C-1,2,3,4,6,7,8-HpCDD

200501R1\_5



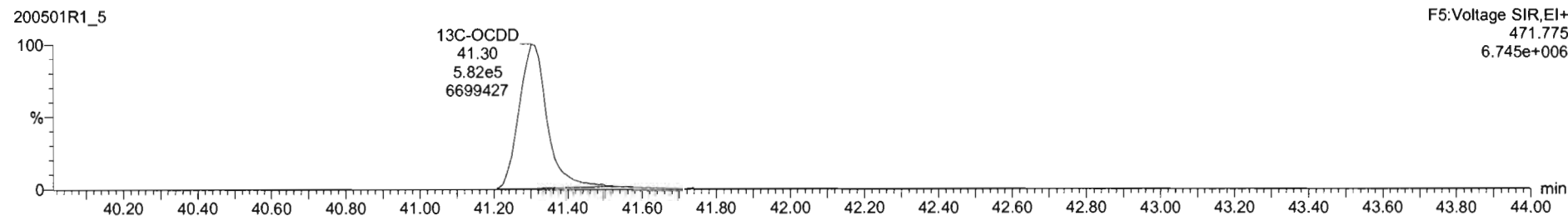
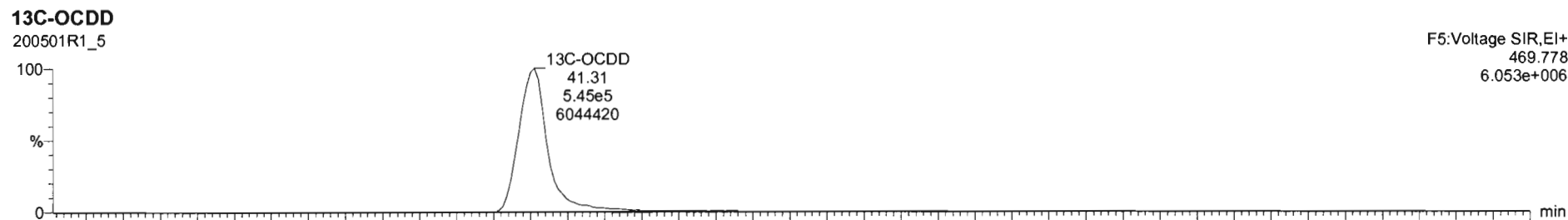
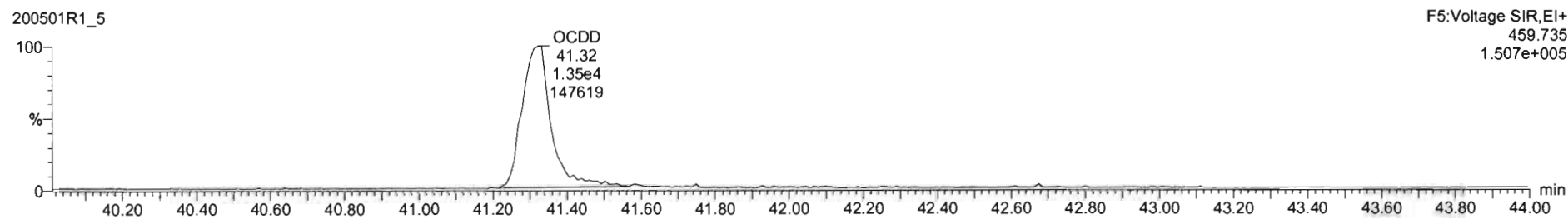
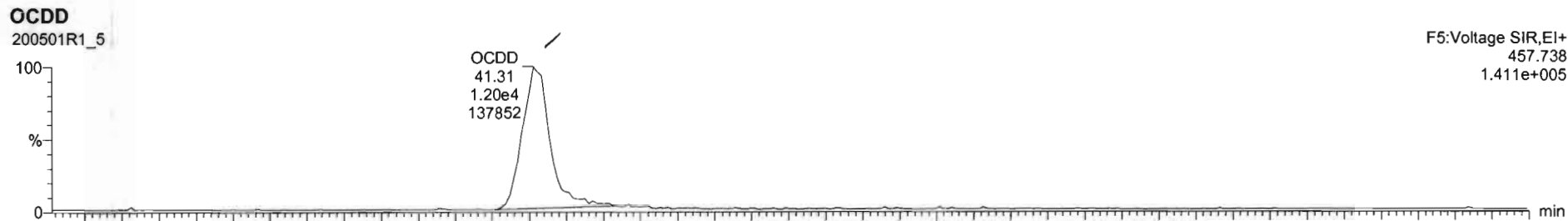
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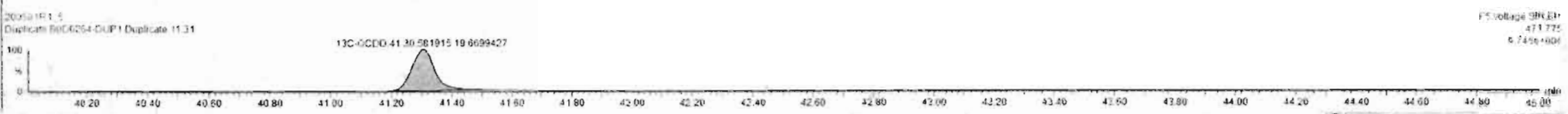
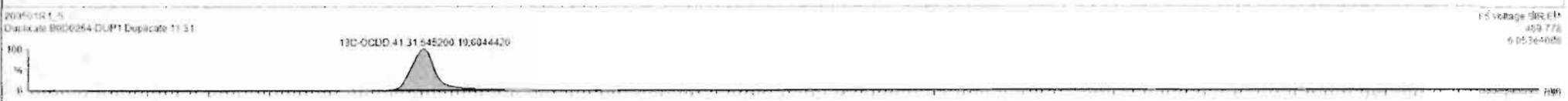
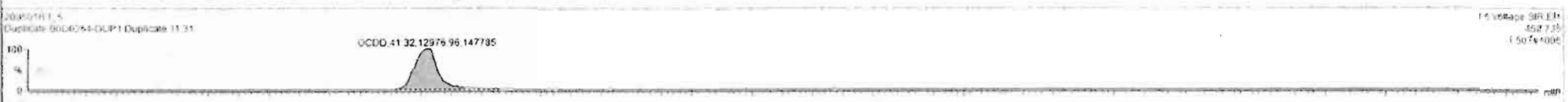
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Printed: Friday, May 01, 2020 1:05:25 PM Pacific Daylight Time

Name: 200501R1\_5, Date: 01-May-2020, Time: 12:08:21, ID: B0D0264-DUP1 Duplicate 11.31, Description: Duplicate



#	Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.70e3	0.17	YES	0.9477	11.310	25.95	1.001	0.225		0.0565	0.0757
2	1,2,3,7,8-PeCDD			NO	0.9425	11.310					0.0453	
3	1,2,3,4,7,8-HxCDD			NO	1.0641	11.310					0.0575	
4	1,2,3,7,8-HxCDD			NO	0.9145	11.310					0.0584	
5	1,2,3,7,8-HxCDD			NO	0.9145	11.310					0.0680	
6	1,2,3,4,7,8-HpCDD	2.62e3	1.01	NO	0.8979	11.310	36.34	1.001	0.656		0.104	0.856
7	OCDD	2.48e4	0.91	NO	0.9335	11.310	41.31	1.000	0.33		0.162	8.33
8	2,3,7,8-TCDF			NO	0.7871	11.310					0.0419	
9	1,2,3,7,8-PeCDF			NO	0.9102	11.310					0.0306	

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

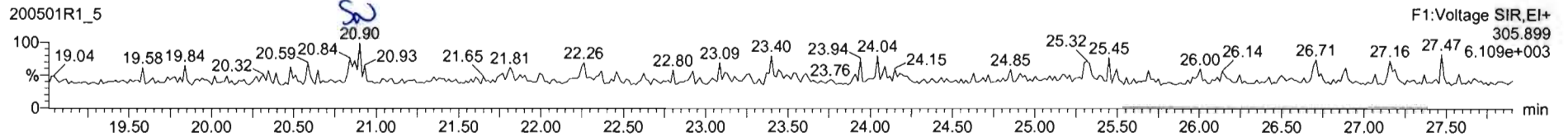


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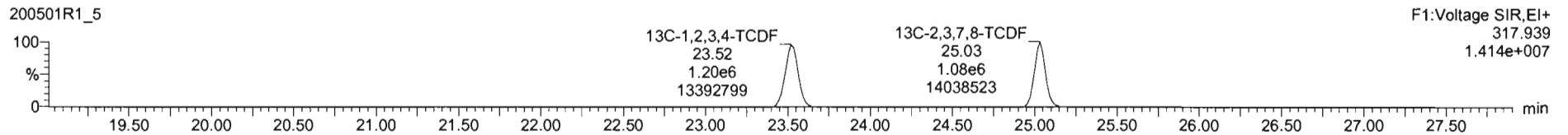
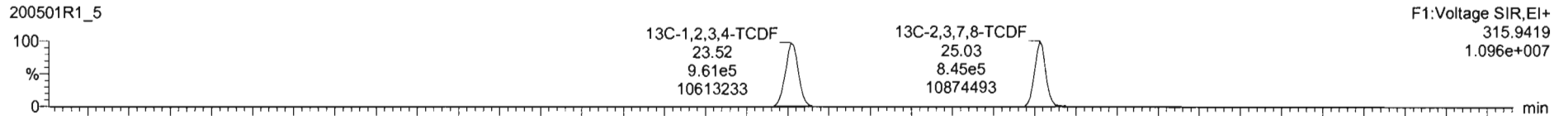
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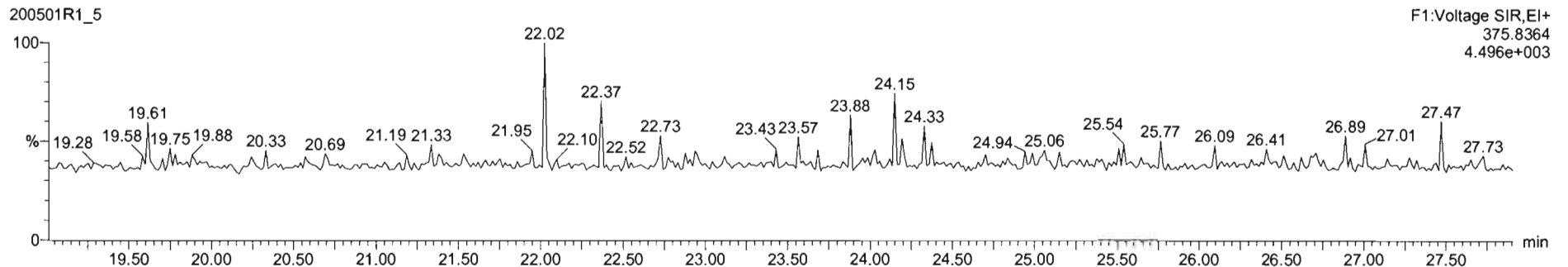
2,3,7,8-TCDF



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



DPE1



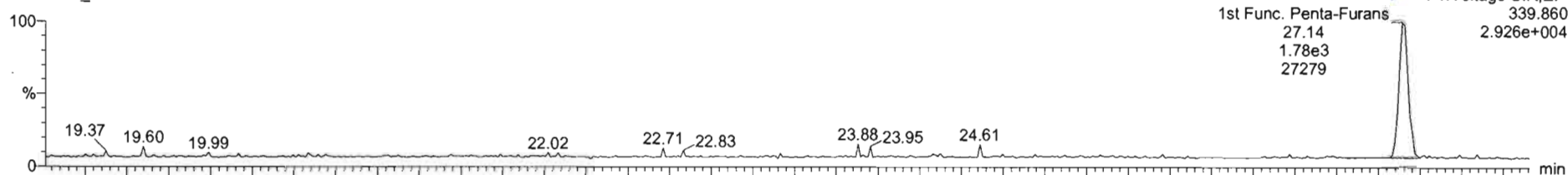
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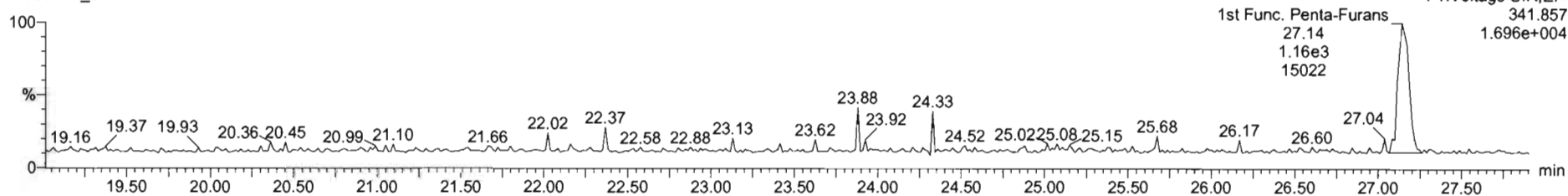
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1st Func. Penta-Furans

200501R1\_5

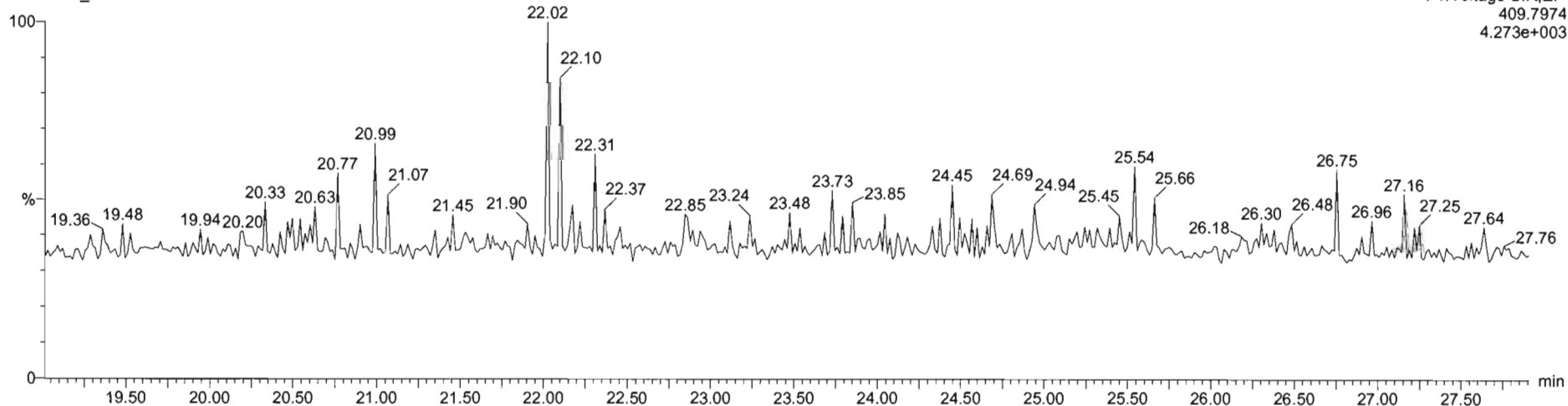


200501R1\_5



DPE6

200501R1\_5

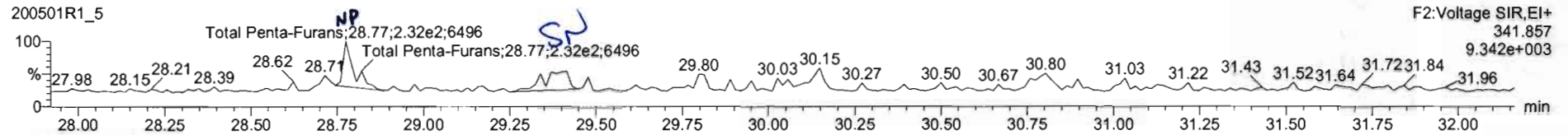
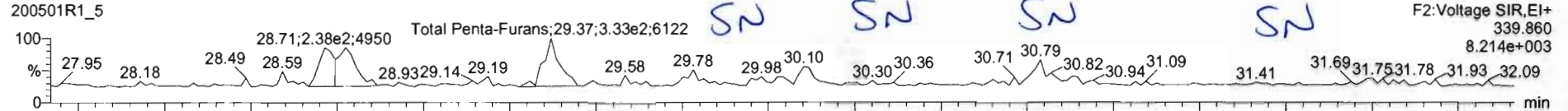


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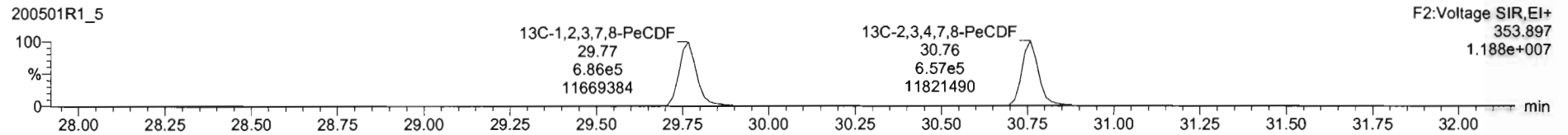
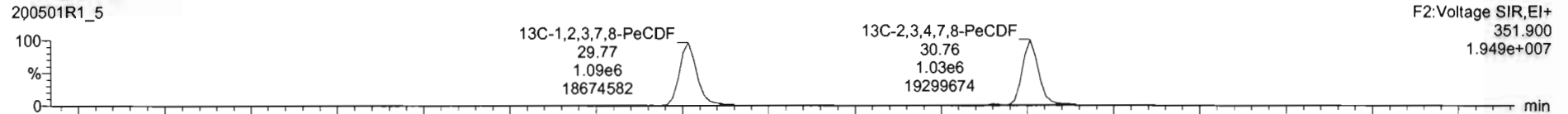
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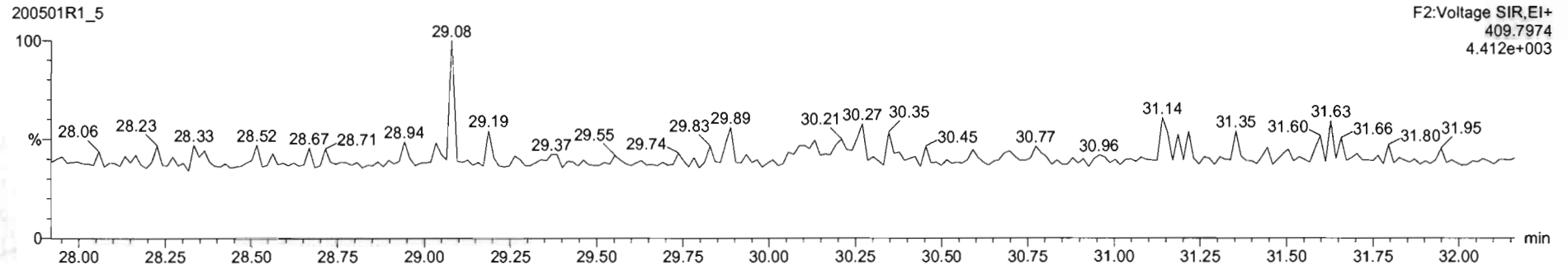
**1,2,3,7,8-PeCDF**



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

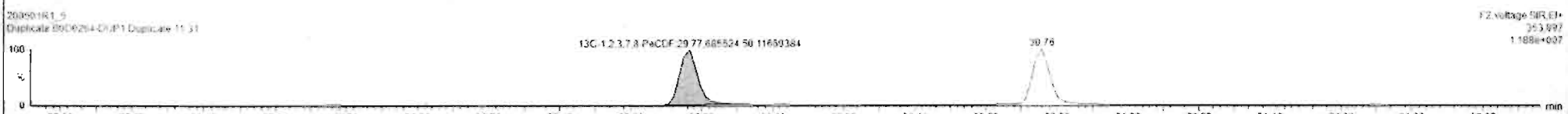
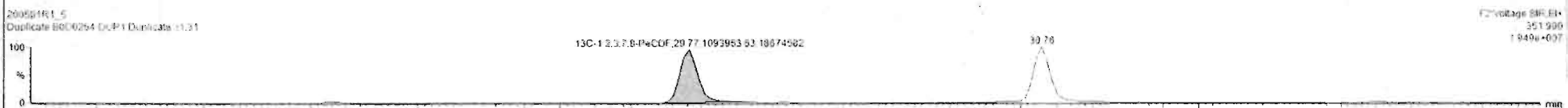
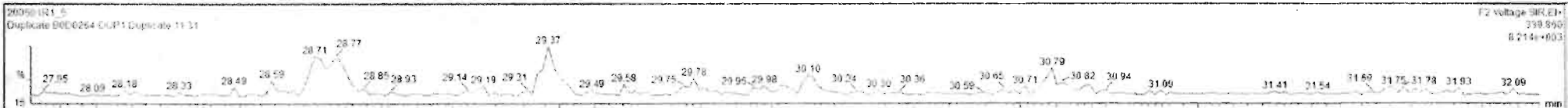


**DPE2**



Name	Resp	RA	nby	RRF	w%vol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9425	11.310				0.0206		
41 Total Hexa-Dioxins				0.9145	11.310			0.531	0.0640	0.531	
42 Total Hepta-Dioxins				0.8976	11.310			1.79	0.104	1.79	
43 Total Tetra-Furans				0.7871	11.310				0.0195		
44 1st Func. Penta-Furans				0.9102	11.310			0.329	0.0218	0.329	
45 Total Penta-Furans				<b>0.9102</b>	<b>11.310</b>				<b>0.0123</b>		
46 Total Hexa-Furans				0.9217	11.310			7.24	0.0483	1.24	
47 Total Hepta-Furans				0.8712	11.310				0.0677	3.37	
48 PFR1											

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



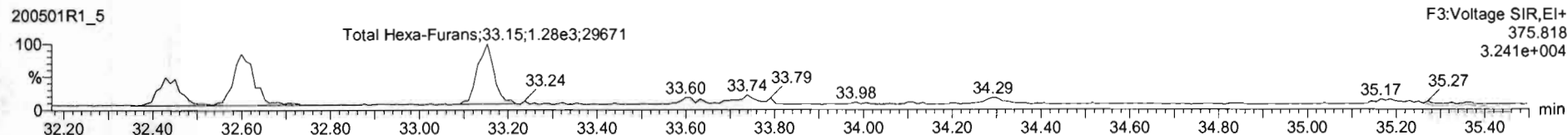
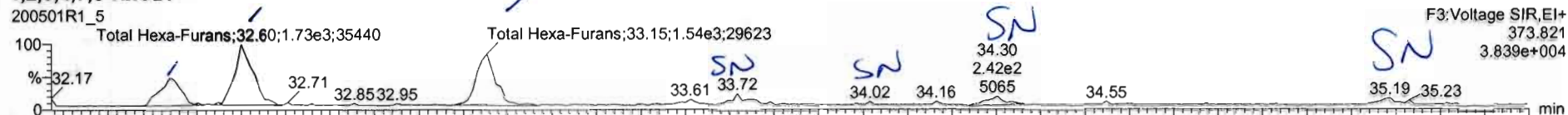


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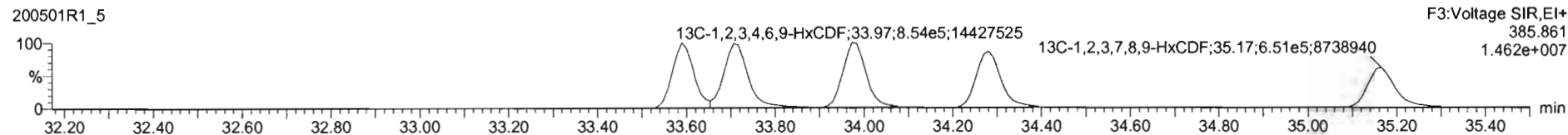
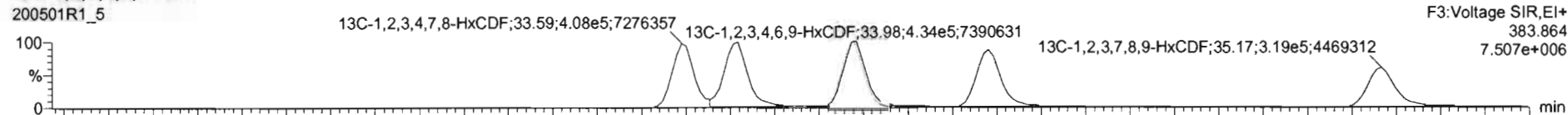
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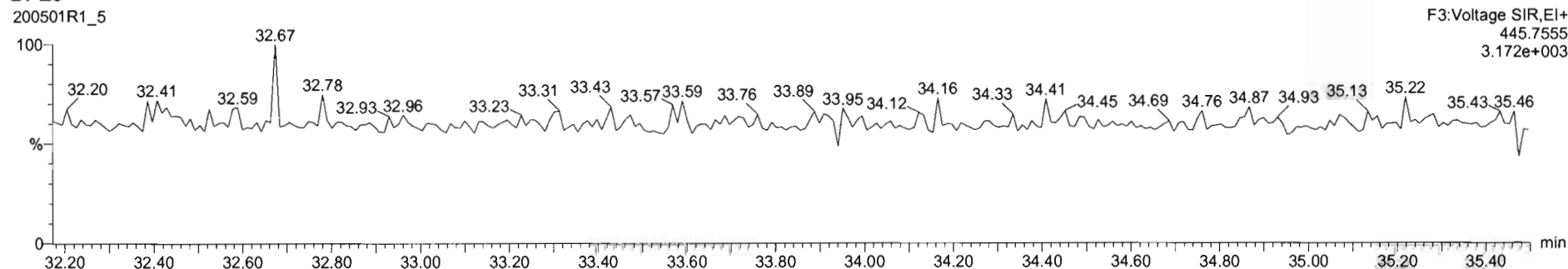
**1,2,3,4,7,8-HxCDF**



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

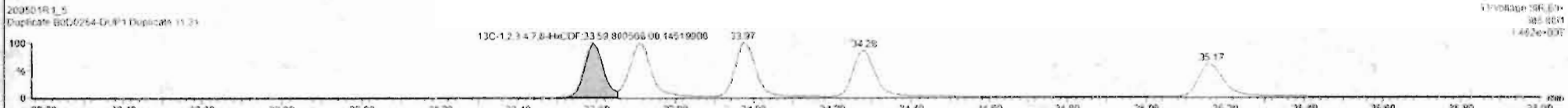
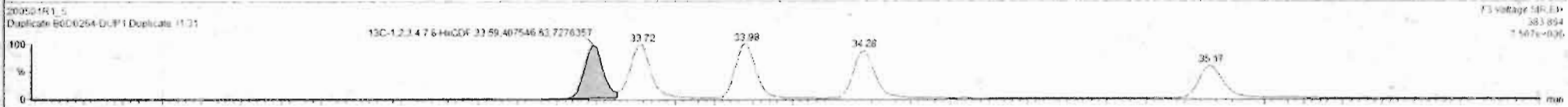


**DPE3**



Name	Resp	RA	inj	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9425	11.310				0.0206		
41 Total Hexa-Dioxins				0.9145	11.310			0.534	0.0640	0.531	
42 Total Hepta-Dioxins				0.8975	11.310			1.76	0.104	1.75	
43 Total Tetra-Furans				0.7871	11.310				0.0195		
44 1&2 Func. Penta-Furans				0.9102	11.310			0.329	0.0218	0.329	
45 Total Penta-Furans				0.9102	11.310				0.0127		
46 Total Hexa-Furans				0.9217	11.310			1.22	0.0483	1.22	
47 Total Hepta-Furans				0.8712	11.310				0.0677	0.37	
48 PFR1											

Name	RT	m9 Resp	m2 Resp	RA	inj	EMPC	CRUC
1 Total Hexa-Furans	32.48	5.057e2	7.310e2	1.45	NO	0.27294	1.27304
2 Total Hexa-Furans	32.60	1.734e3	1.317e3	1.32	NO	0.48439	0.48439
3 Total Hexa-Furans	32.75	7.486e2	1.201e3	1.17	NO	0.65010	0.65030



Custom Reporting: Select reports to generate

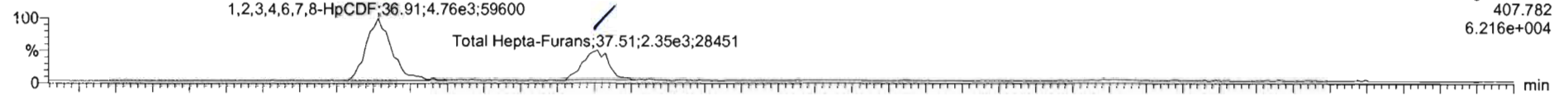
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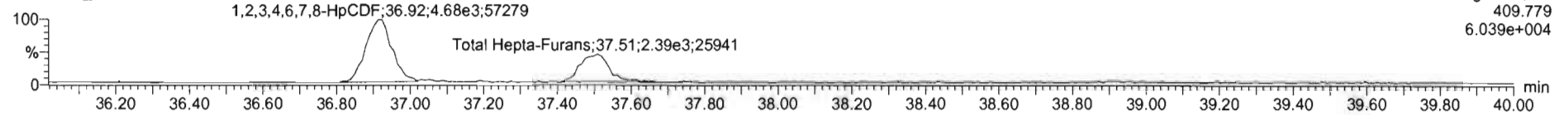
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**1,2,3,4,6,7,8-HpCDF**

200501R1\_5

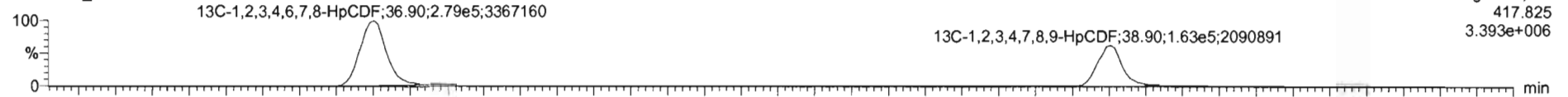


200501R1\_5

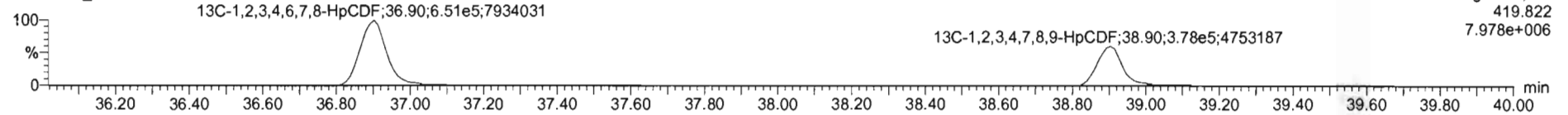


**13C-1,2,3,4,6,7,8-HpCDF**

200501R1\_5

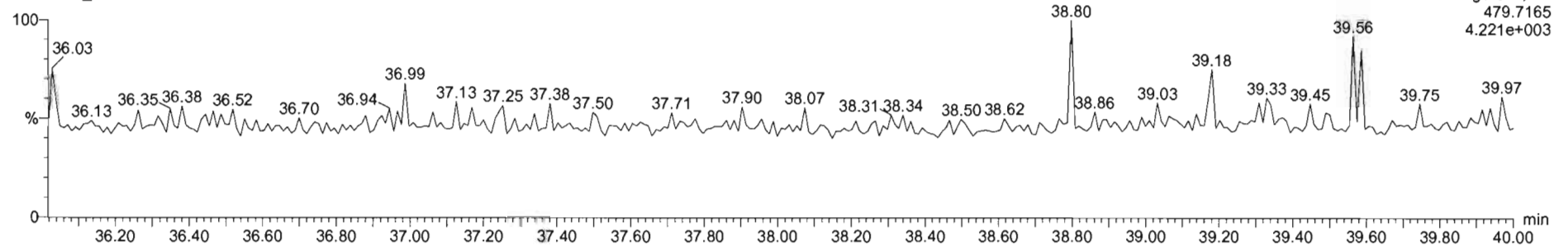


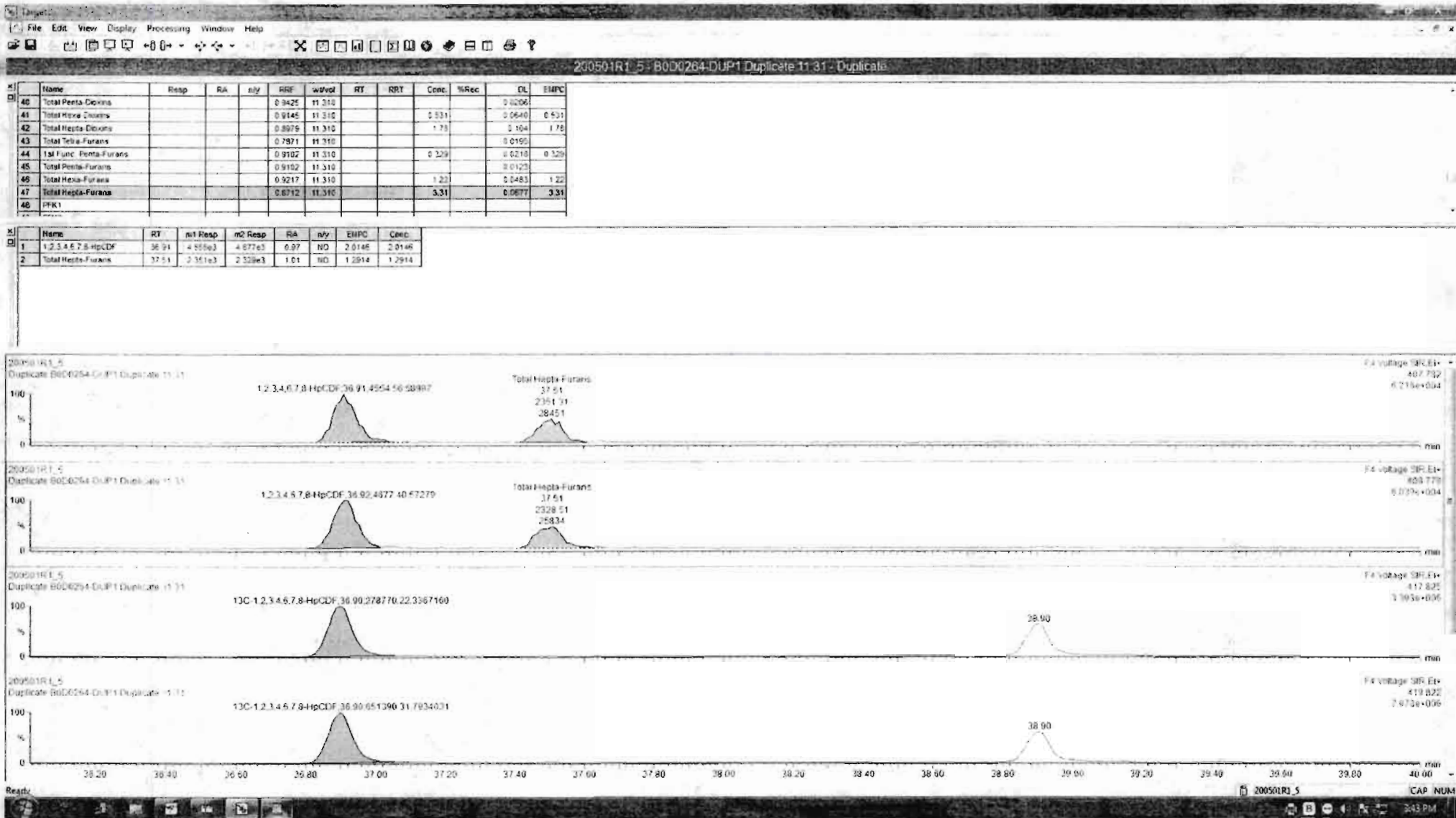
200501R1\_5



**DPE4**

200501R1\_5

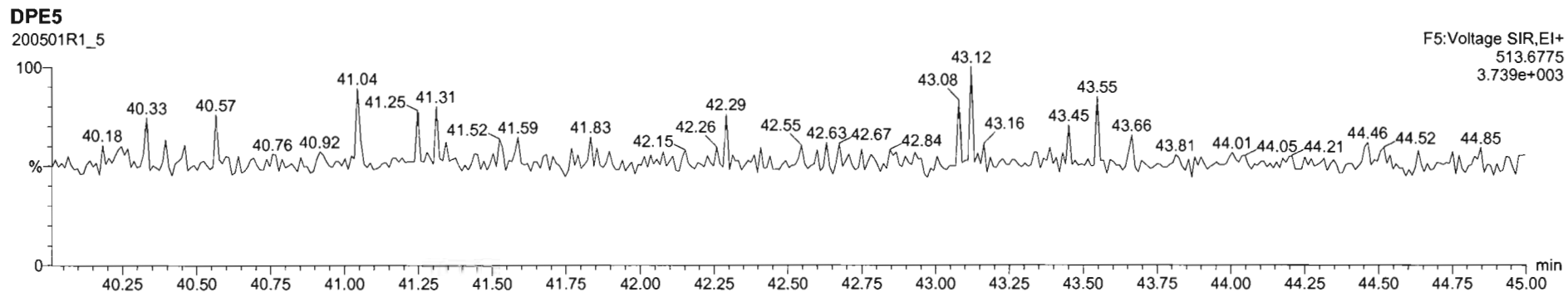
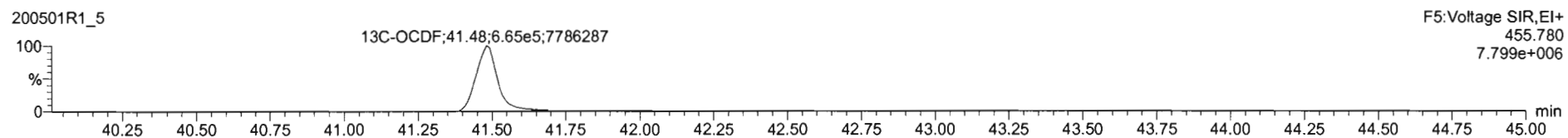
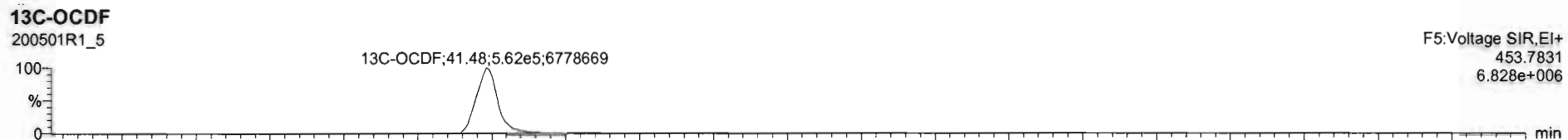
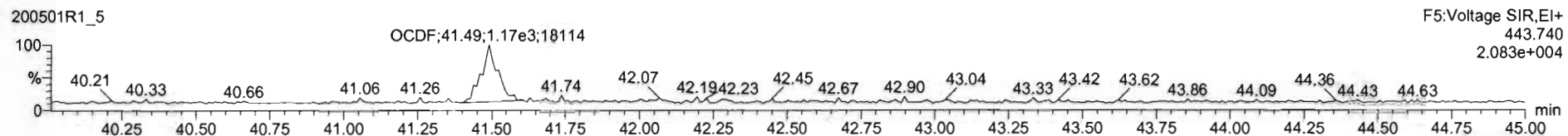
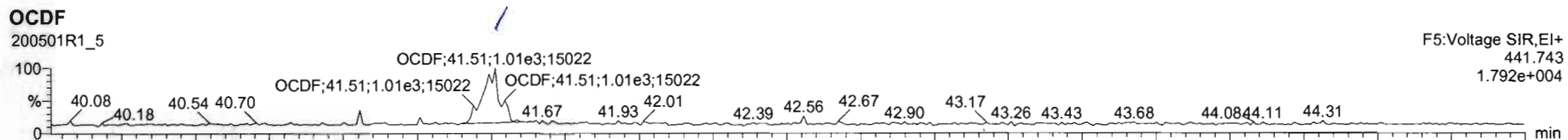




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Printed: Friday, May 01, 2020 1:05:25 PM Pacific Daylight Time

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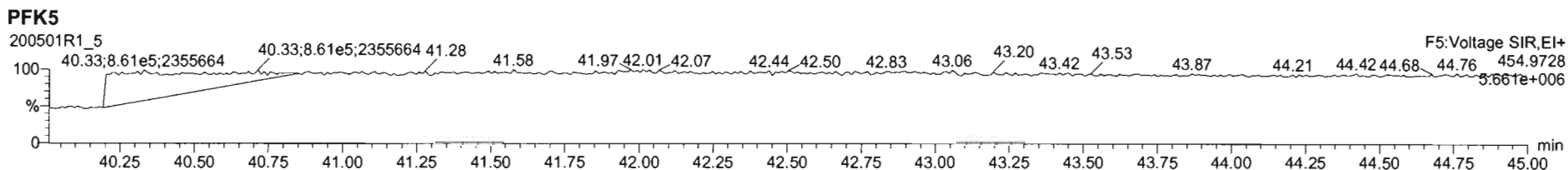
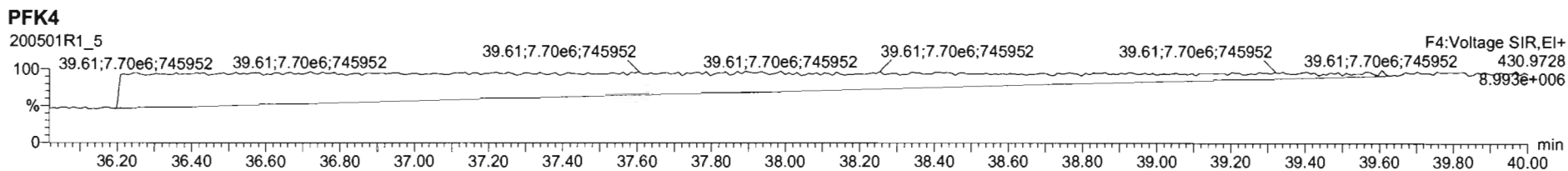
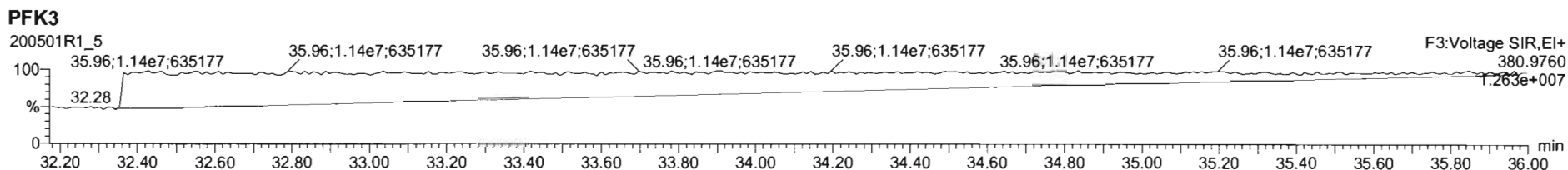
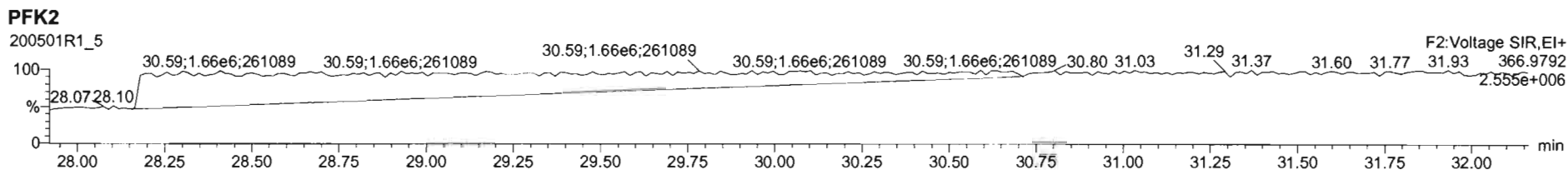
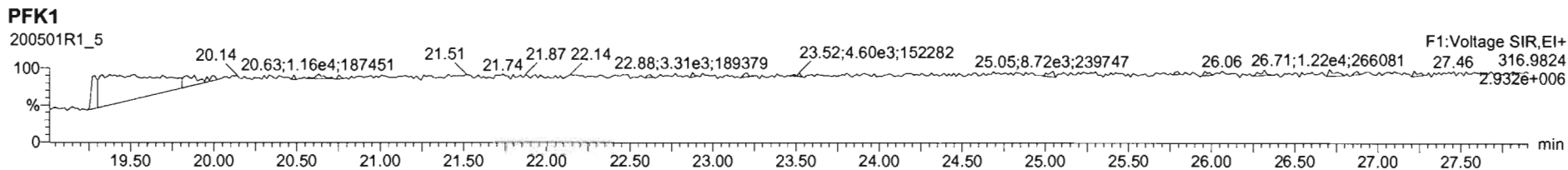




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Dataset: U:\VG12.PRO\Results\200501R1\200501R1-7.qid

Last Altered: Friday, May 01, 2020 4:01:15 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 4:01:43 PM Pacific Daylight Time

GRB 05/01/2020

C7 05/05/2020

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

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

Name: 200501R1\_7, Date: 01-May-2020, Time: 13:40:49, ID: 2000927-02 PDI-151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.018	26.021		1.001				0.0681	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.018	31.116		1.001				0.0624	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.018	34.473		1.000				0.0964	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.018	34.569		1.000				0.0991	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.018	34.846		1.000				0.113	
6	6 1,2,3,4,6,7,8-HpCDD	1.90e3	0.98	NO	0.898	10.018	38.340	38.36	1.000	1.001	0.61011		0.225	0.610
7	7 OCDD	1.58e4	0.88	NO	0.933	10.018	41.322	41.34	1.000	1.001	6.4244		0.138	6.42
8	8 2,3,7,8-TCDF			NO	0.787	10.018	25.072		1.001				0.0480	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.018	29.803		1.001				0.0357	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.018	30.805		1.001				0.0335	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.018	33.600		1.000				0.0529	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.018	33.738		1.000				0.0519	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.018	34.326		1.001				0.0579	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.018	35.176		1.000				0.0883	
15	15 1,2,3,4,6,7,8-HpCDF	2.28e3	0.95	NO	0.871	10.018	36.949	36.94	1.001	1.001	0.59748		0.139	0.597
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.018	38.915		1.000				0.190	
17	17 OCDF	8.34e2	0.91	NO	0.802	10.018	41.503	41.51	1.000	1.000	0.35881		0.143	0.359
18	18 13C-2,3,7,8-TCDD	1.28e6	0.80	NO	1.16	10.018	25.984	25.99	1.026	1.027	177.06	88.7	0.206	
19	19 13C-1,2,3,7,8-PeCDD	1.07e6	0.63	NO	0.847	10.018	31.068	31.09	1.227	1.228	202.09	101	0.366	
20	20 13C-1,2,3,4,7,8-HxCDD	8.02e5	1.29	NO	0.750	10.018	34.473	34.46	1.014	1.014	185.01	92.7	0.495	
21	21 13C-1,2,3,6,7,8-HxCDD	9.99e5	1.26	NO	0.963	10.018	34.585	34.57	1.017	1.017	179.54	89.9	0.385	
22	22 13C-1,2,3,7,8,9-HxCDD	8.93e5	1.25	NO	0.838	10.018	34.854	34.84	1.025	1.025	184.42	92.4	0.443	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.92e5	1.06	NO	0.641	10.018	38.342	38.33	1.128	1.128	186.74	93.5	0.473	
24	24 13C-OCDD	1.05e6	0.89	NO	0.586	10.018	41.333	41.32	1.216	1.216	311.09	77.9	0.397	
25	25 13C-2,3,7,8-TCDF	1.71e6	0.79	NO	1.03	10.018	25.045	25.05	0.989	0.989	171.06	85.7	0.369	
26	26 13C-1,2,3,7,8-PeCDF	1.63e6	1.58	NO	0.845	10.018	29.759	29.78	1.176	1.176	200.23	100	0.601	
27	27 13C-2,3,4,7,8-PeCDF	1.57e6	1.60	NO	0.814	10.018	30.749	30.77	1.215	1.216	199.54	99.9	0.624	
28	28 13C-1,2,3,4,7,8-HxCDF	1.13e6	0.51	NO	1.00	10.018	33.613	33.60	0.989	0.988	194.87	97.6	0.555	
29	29 13C-1,2,3,6,7,8-HxCDF	1.28e6	0.51	NO	1.14	10.018	33.736	33.73	0.992	0.992	195.12	97.7	0.490	
30	30 13C-2,3,4,6,7,8-HxCDF	1.13e6	0.51	NO	1.02	10.018	34.303	34.29	1.009	1.009	190.57	95.5	0.545	
31	31 13C-1,2,3,7,8,9-HxCDF	8.88e5	0.50	NO	0.845	10.018	35.194	35.18	1.035	1.035	181.84	91.1	0.660	



Dataset: U:\VG12.PRO\Results\200501R1\200501R1-7.qld

Last Altered: Friday, May 01, 2020 4:01:15 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 4:01:43 PM Pacific Daylight Time

Name: 200501R1\_7, Date: 01-May-2020, Time: 13:40:49, ID: 2000927-02 PDI-151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.75e5	0.44	NO	0.771	10.018	36.924	36.91	1.086	1.086	196.39	98.4	0.495	
33	13C-1,2,3,4,7,8,9-HpCDF	5.14e5	0.46	NO	0.482	10.018	38.933	38.92	1.145	1.145	184.56	92.4	0.792	
34	13C-OCDF	1.16e6	0.88	NO	0.669	10.018	41.503	41.50	1.221	1.221	299.40	75.0	0.312	
35	37Cl-2,3,7,8-TCDD	5.62e5			1.10	10.018	26.015	26.02	1.028	1.028	82.185	103	0.0580	
36	13C-1,2,3,4-TCDD	1.24e6	0.81	NO	1.00	10.018	25.350	25.32	1.000	1.000	199.65	100	0.238	
37	13C-1,2,3,4-TCDF	1.93e6	0.79	NO	1.00	10.018	23.560	23.53	1.000	1.000	199.65	100	0.382	
38	13C-1,2,3,4,6,9-HxCDF	1.15e6	0.51	NO	1.00	10.018	34.000	33.99	1.000	1.000	199.65	100	0.558	
39	Total Tetra-Dioxins				0.947	10.018	24.620		0.000				0.0405	
40	Total Penta-Dioxins				0.942	10.018	29.960		0.000				0.0312	
41	Total Hexa-Dioxins				0.915	10.018	33.635		0.000		0.58334		0.108	0.583
42	Total Hepta-Dioxins				0.898	10.018	37.640		0.000		1.7205		0.225	1.72
43	Total Tetra-Furans				0.787	10.018	23.610		0.000				0.0216	
44	1st Func. Penta-Furans				0.910	10.018	27.090		0.000		0.12347		0.0238	0.123
45	Total Penta-Furans				0.910	10.018	29.275		0.000				0.0144	
46	Total Hexa-Furans				0.922	10.018	33.555		0.000		0.43588		0.0585	0.436
47	Total Hepta-Furans				0.871	10.018	37.835		0.000		1.0137		0.169	1.01

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-7.qld

Last Altered: Friday, May 01, 2020 4:01:15 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 4:01:43 PM Pacific Daylight Time

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

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

Name: 200501R1\_7, Date: 01-May-2020, Time: 13:40:49, ID: 2000927-02 PDI-151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	1.446e4	1.488e4	8.318e2	6.871e2	1.21	NO	1.519e3	0.36929	0.36929	0.108
2	Total Hexa-Dioxins	33.81	7.368e3	8.750e3	4.583e2	4.221e2	1.09	NO	8.805e2	0.21406	0.21406	0.108

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.31	2.371e4	2.000e4	1.759e3	1.698e3	1.04	NO	3.457e3	1.1104	1.1104	0.225
2	1,2,3,4,6,7,8-HpCDD	38.36	1.178e4	1.031e4	9.394e2	9.602e2	0.98	NO	1.900e3	0.61011	0.61011	0.225

**Tetra-Furans**

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

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.17	1.134e4	3.842e3	5.687e2	3.331e2	1.71	NO	9.018e2	0.12347	0.12347	0.0238

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-7.qld

Last Altered: Friday, May 01, 2020 4:01:15 PM Pacific Daylight Time

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Name: 200501R1\_7, Date: 01 May 2020, Time: 13:40:49, ID: 2000927-02 PD: 151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	5.800e3	3.740e3	2.544e2	2.410e2	1.06	NO	4.953e2	0.096934	0.096934	0.0585
2	Total Hexa-Furans	32.62	9.173e3	7.190e3	4.435e2	4.107e2	1.08	NO	8.543e2	0.16718	0.16718	0.0585
3	Total Hexa-Furans	33.17	9.838e3	9.575e3	4.616e2	4.161e2	1.11	NO	8.778e2	0.17177	0.17177	0.0585

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.94	1.434e4	1.796e4	1.112e3	1.170e3	0.95	NO	2.282e3	0.59748	0.59748	0.139
2	Total Hepta-Furans	37.51	7.576e3	8.217e3	5.989e2	6.632e2	0.90	NO	1.262e3	0.41621	0.41621	0.169

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Last Altered: Friday, May 01, 2020 2:27:05 PM Pacific Daylight Time

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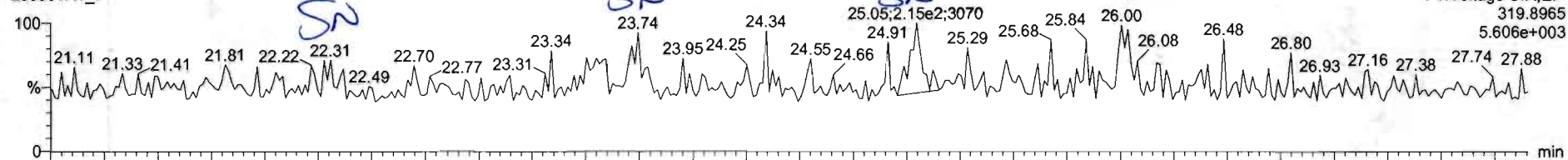
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Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200501R1\_7, Date: 01-May-2020, Time: 13:40:49, ID: 2000927-02 PDI-151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421

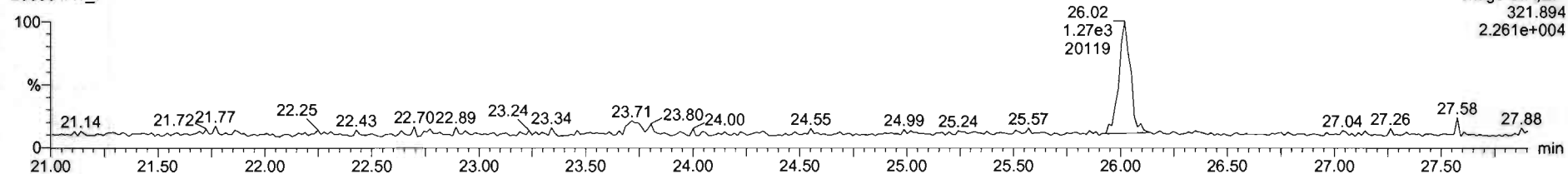
2,3,7,8-TCDD

200501R1\_7



F1:Voltage SIR,EI+  
319.8965  
5.606e+003

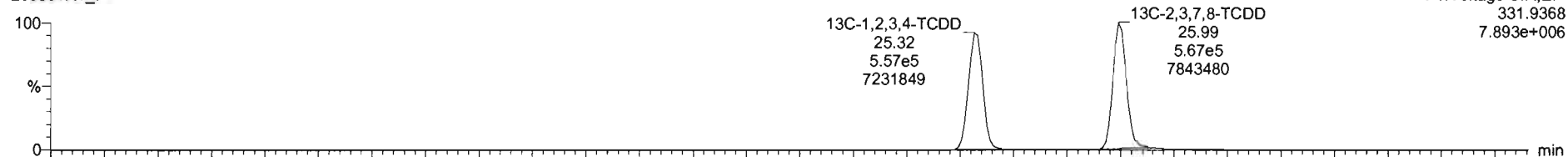
200501R1\_7



F1:Voltage SIR,EI+  
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2.261e+004

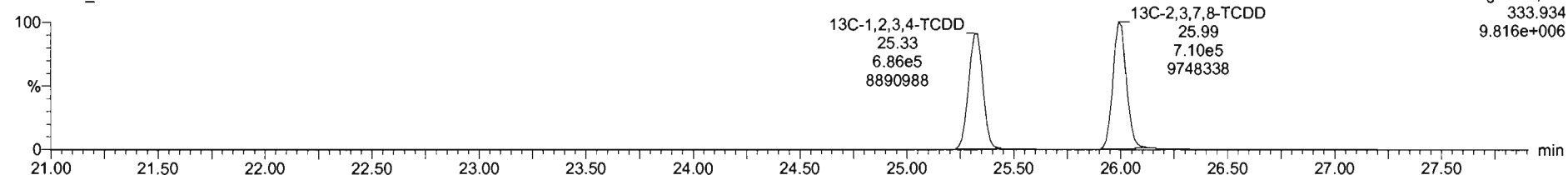
13C-2,3,7,8-TCDD

200501R1\_7



F1:Voltage SIR,EI+  
331.9368  
7.893e+006

200501R1\_7



F1:Voltage SIR,EI+  
333.934  
9.816e+006

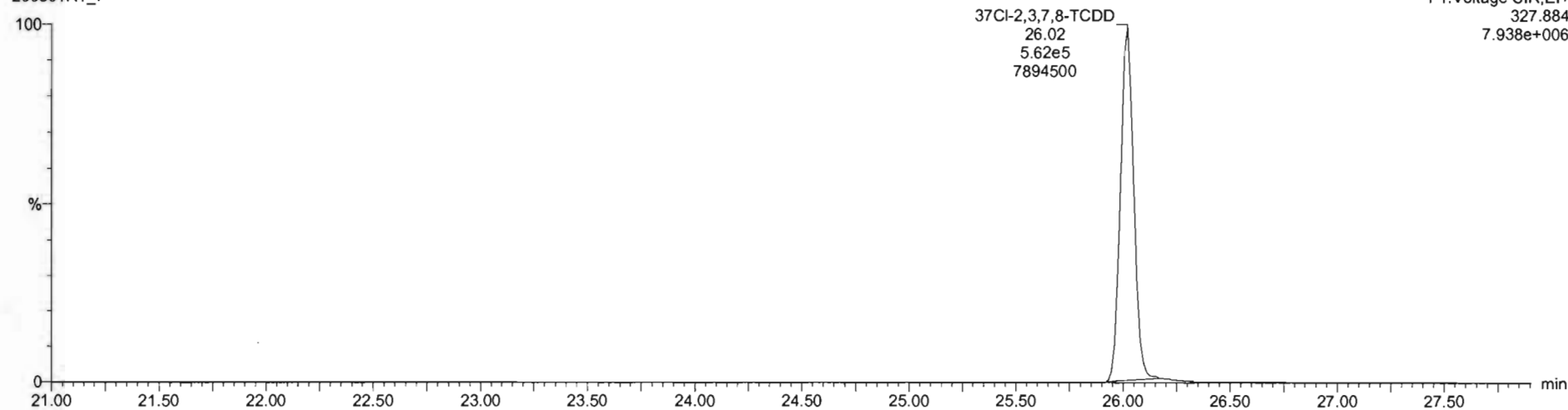
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Name: 200501R1\_7, Date: 01-May-2020, Time: 13:40:49, ID: 2000927-02 PDI-151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421

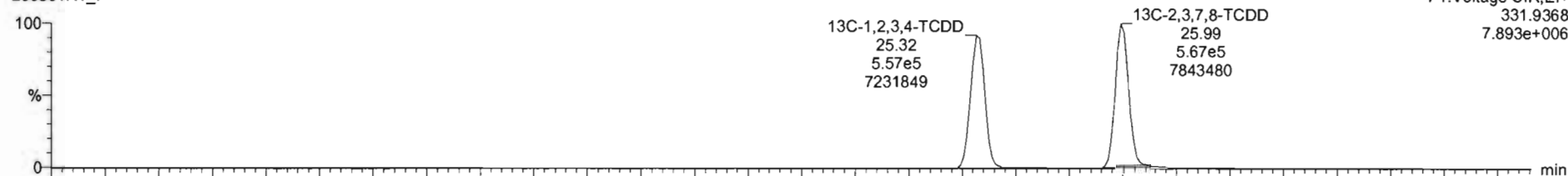
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200501R1\_7

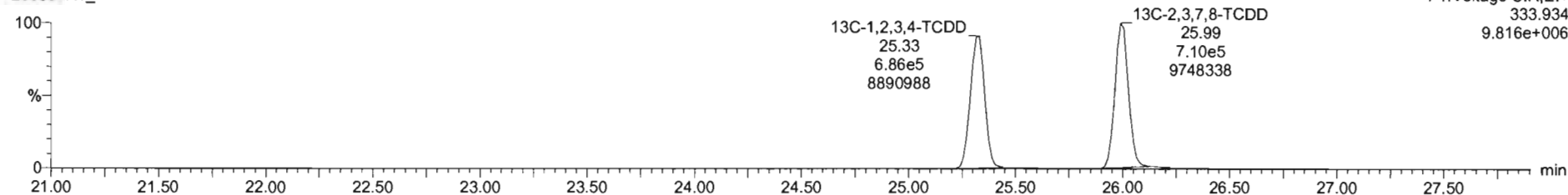


**13C-1,2,3,4-TCDD**

200501R1\_7



200501R1\_7



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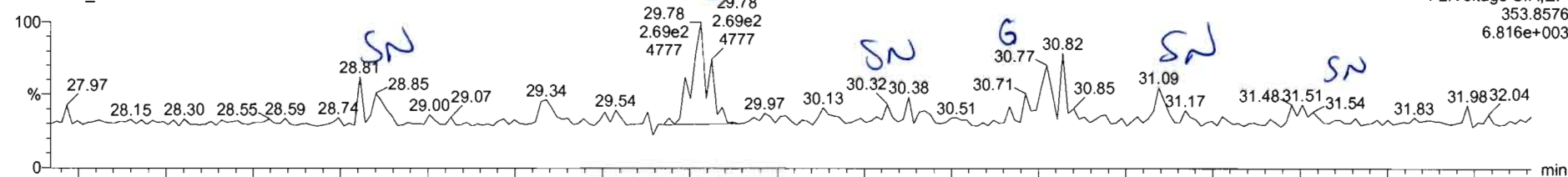
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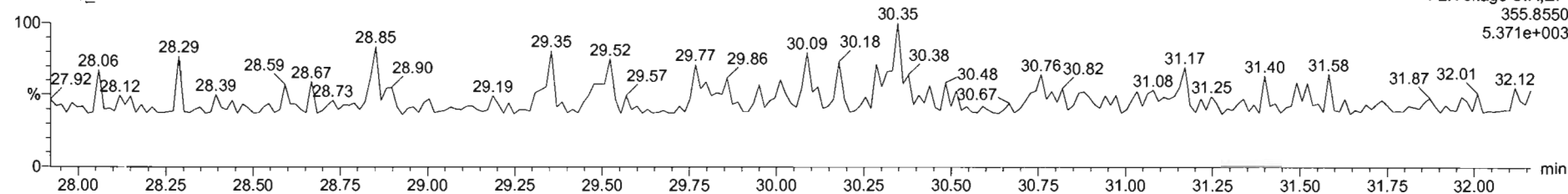
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1,2,3,7,8-PeCDD

200501R1\_7

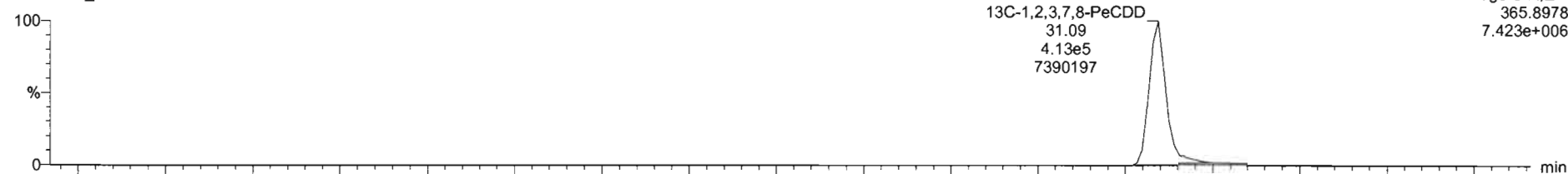


200501R1\_7

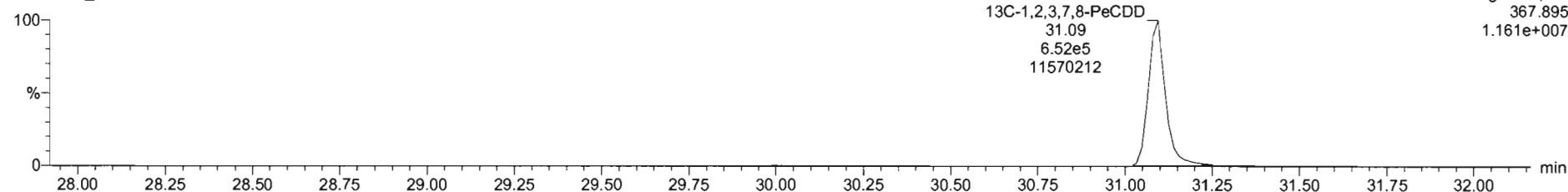


13C-1,2,3,7,8-PeCDD

200501R1\_7



200501R1\_7



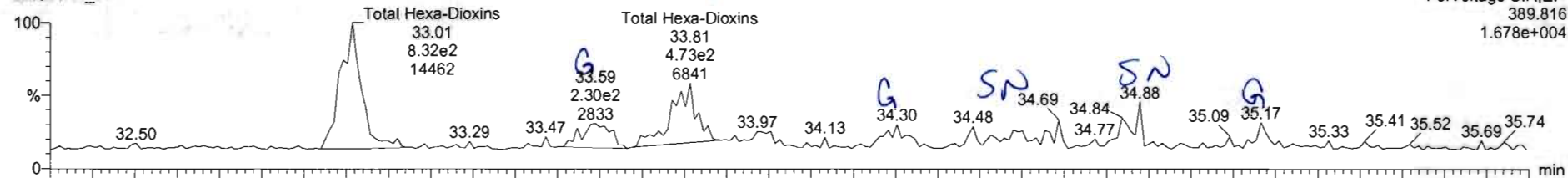
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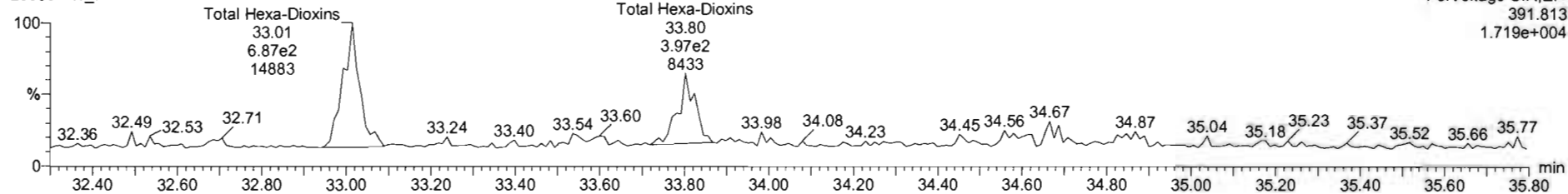
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1,2,3,4,7,8-HxCDD

200501R1\_7

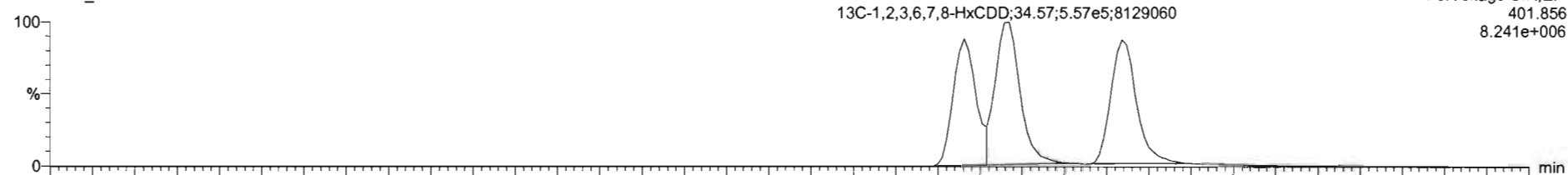


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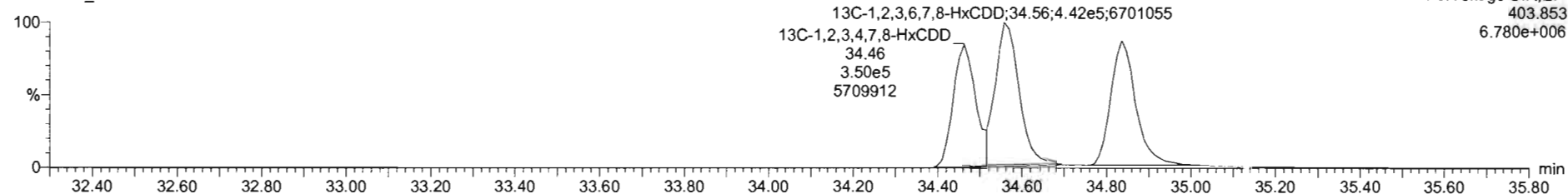


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200501R1\_7

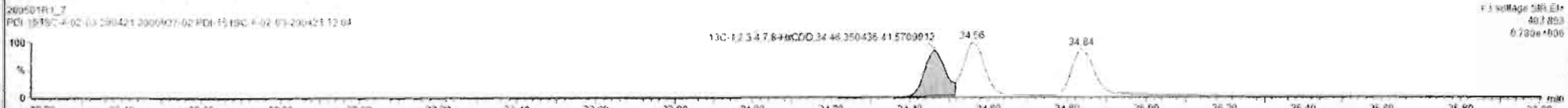
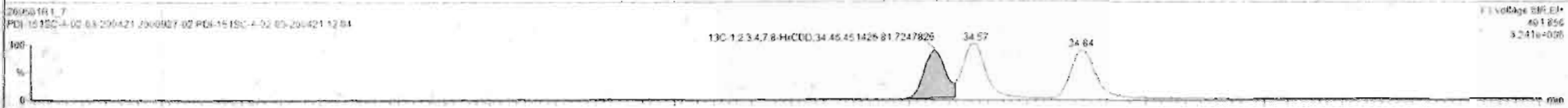
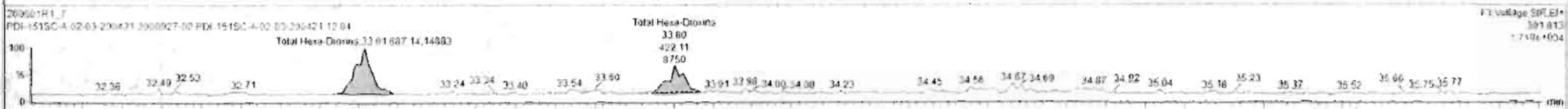


200501R1\_7



Name	Resp	RA	ny	RR	w/wr	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Chlorins				0.9145	10.016			0.583	0.198	0.583	
42 Total Hepta-Chlorins				0.8979	10.016			1.78	0.225	1.78	
43 Total Tetra-Furans				0.7874	10.016			0.0216			
44 1st Func. Penta-Furans				0.9102	10.016			0.000	0.00667	0.116	
45 Total Penta-Furans				0.9102	10.016			0.0144			
46 Total Hexa-Furans				0.9217	10.016			0.350	0.0568	0.350	
47 Total Hepta-Furans				0.8712	10.016			0.963	0.169	0.963	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	nY	EMPC	Conc
1 Total Hexa-Chlorins	33.61	6.316e2	6.371e2	1.21	NO	0.36529	0.36929
2 Total Hexa-Chlorins	33.81	4.583e2	4.221e2	1.05	NO	0.21108	0.21496





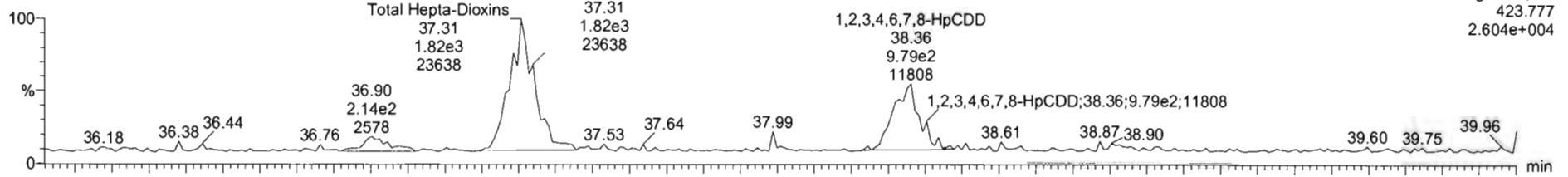
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Name: 200501R1\_7, Date: 01-May-2020, Time: 13:40:49, ID: 2000927-02 PDI-151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421

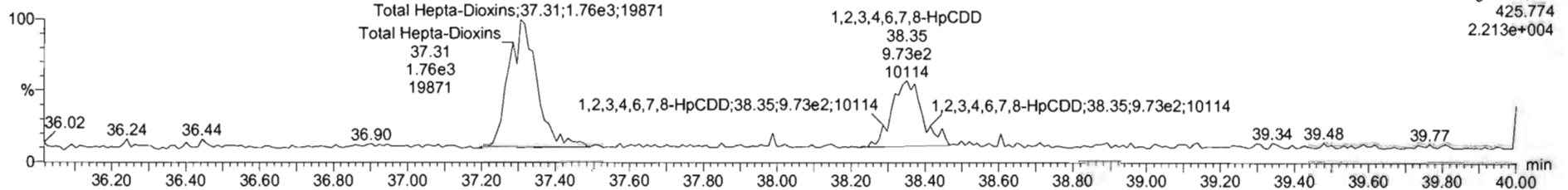
1,2,3,4,6,7,8-HpCDD

200501R1\_7



F4:Voltage SIR,EI+  
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2.604e+004

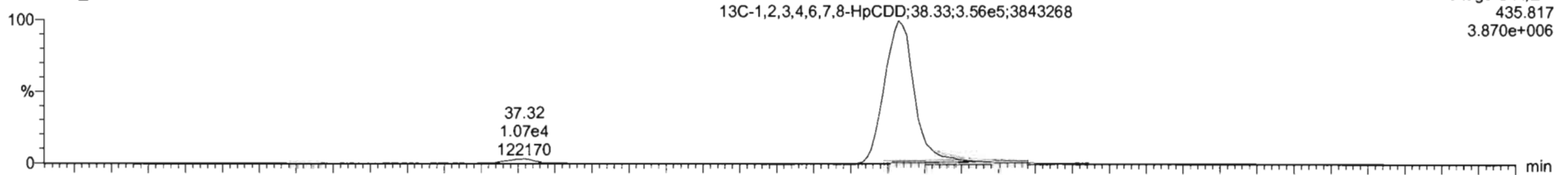
200501R1\_7



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425.774  
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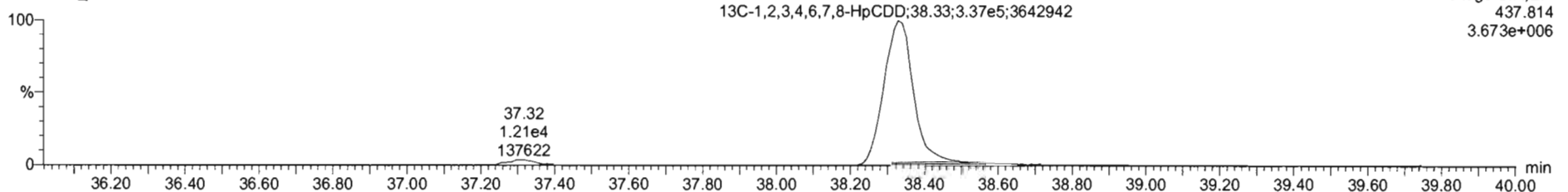
13C-1,2,3,4,6,7,8-HpCDD

200501R1\_7



F4:Voltage SIR,EI+  
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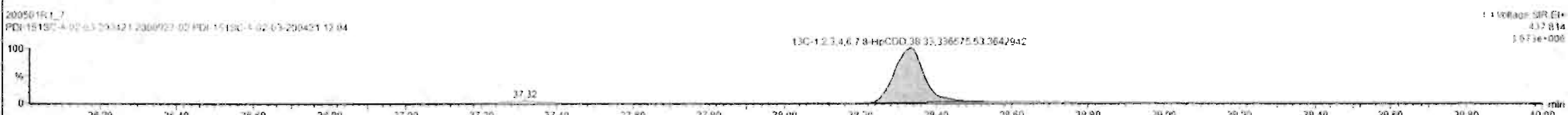
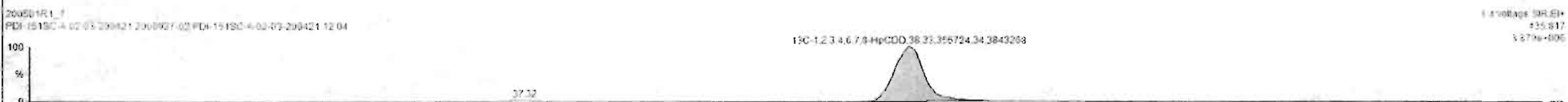
200501R1\_7



F4:Voltage SIR,EI+  
437.814  
3.673e+006

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Chlorins				0.9145	10.018			0.563	0.100	0.507	
42 Total Hepta-Dioxins				0.8079	10.018			1.72	0.225	1.72	
43 Total Tetra-Furans				0.7871	10.018				0.0210		
44 1st Func. Penta-Furans				0.9102	10.018			0.000	0.0067	0.116	
45 Total Penta-Furans				0.9102	10.018				0.0144		
46 Total Hexa-Furans				0.8217	10.018			0.350	0.0565	0.350	
47 Total Hepta-Furans				0.8712	10.018			0.063	0.169	0.063	
48 PPK1											
49 PPK2											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Chlorins	37.31	1.759e3	1.590e3	1.04	NO	1.1184	1.1104
2 1,2,3,4,6,7,8-HpCDD	38.36	8.194e2	9.002e2	0.90	NO	0.61011	0.61011

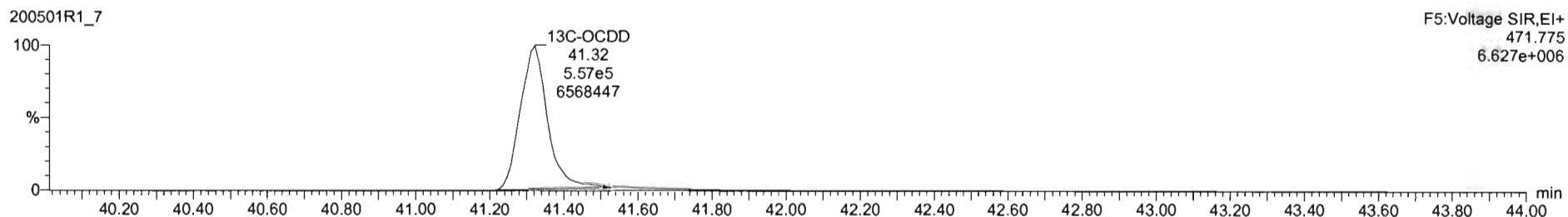
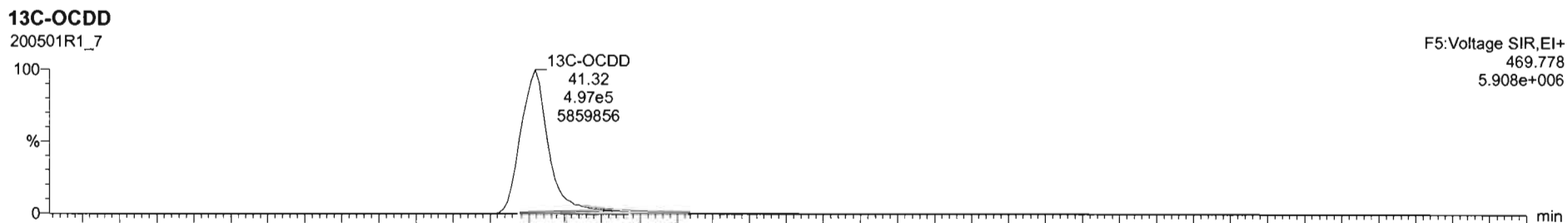
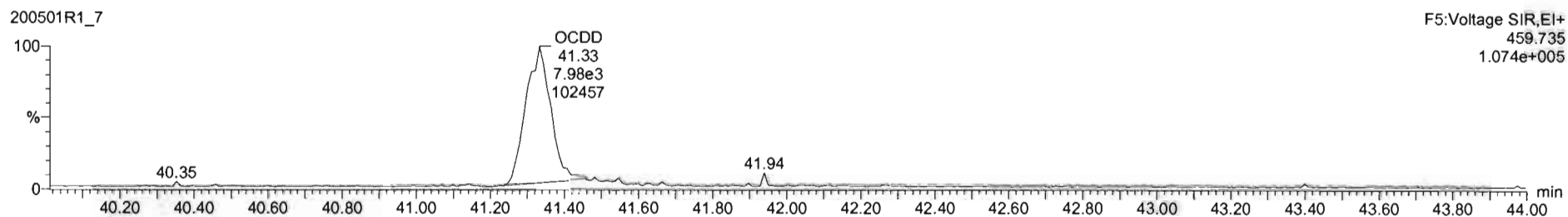
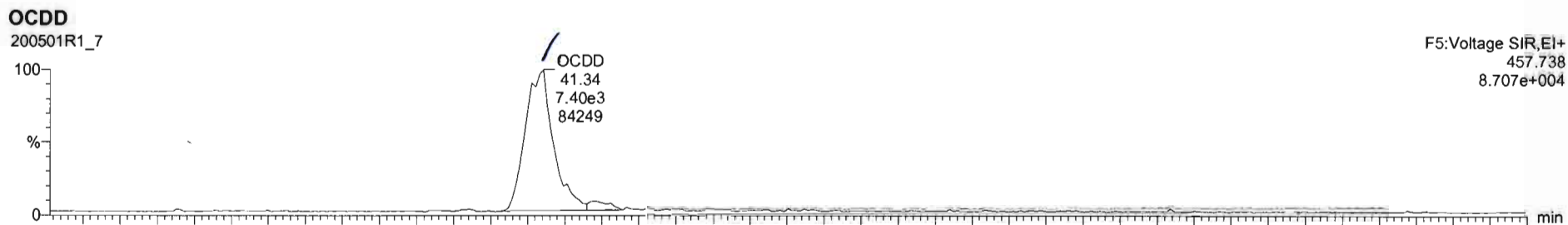


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Name: 200501R1\_7, Date: 01-May-2020, Time: 13:40:49, ID: 2000927-02 PDI-151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDF				NO	0.9475	10.018				0.9531	
2 1,2,3,7,8-PeCDF				NO	0.9425	10.015				0.9524	
3 1,2,3,4,7,8-HxCDF				NO	1.0641	10.018				0.9964	
4 1,2,3,6,7,8-HxCDF				NO	0.9145	10.018				0.9591	
5 1,2,3,7,8,9-HxCDF				NO	0.9145	10.018				0.113	
6 1,2,3,4,6,7,8-HpCDF	1.5e+4	0.85	NO	0.9335	10.018	41.24	1.001	6.42		0.138	6.42
7 OCDD				NO	0.8979	10.015	36.36	1.001	0.67	0.225	0.627
8 2,3,7,8-TCDF				NO	0.7871	10.018				0.0480	
9 1,2,3,7,8-PeCDF				NO	0.9192	10.015				0.9357	

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

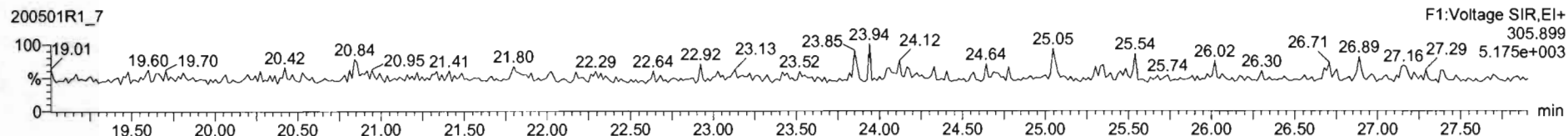
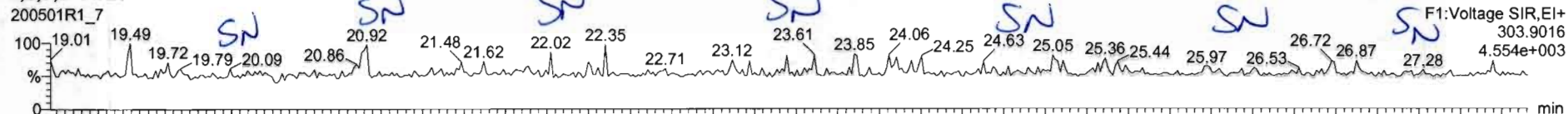


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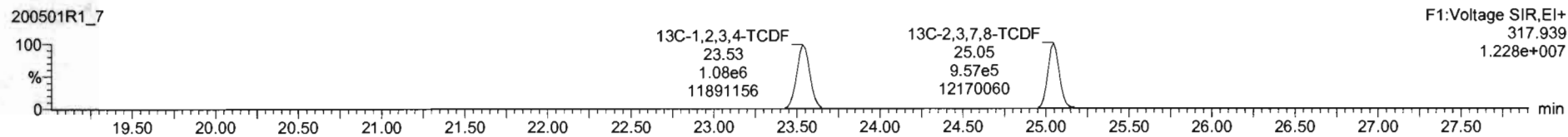
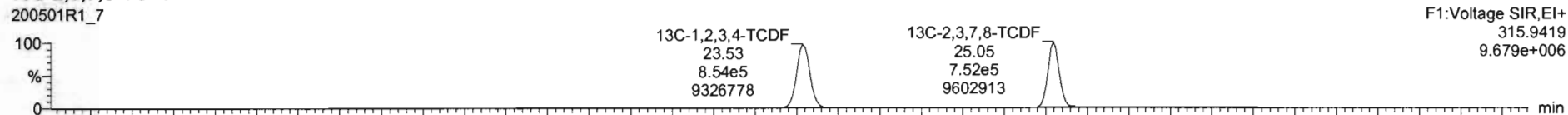
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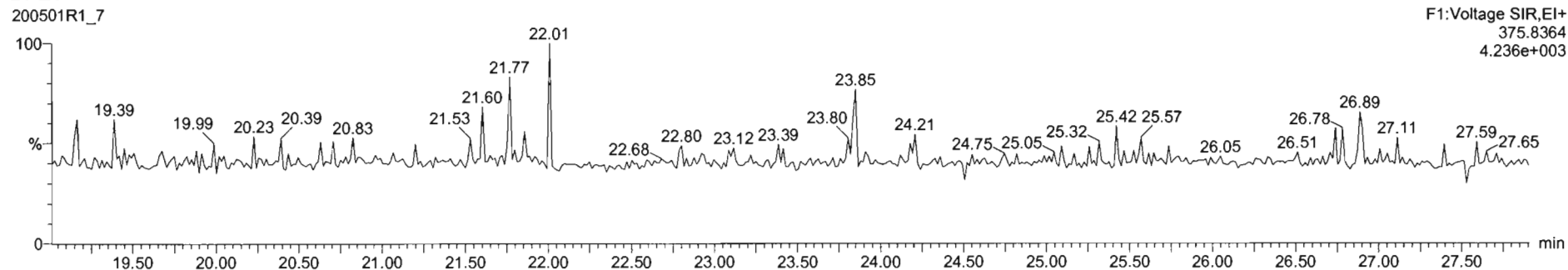
2,3,7,8-TCDF



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



DPE1



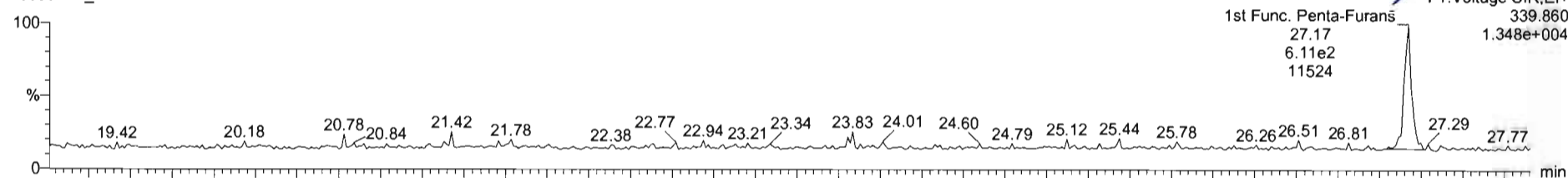
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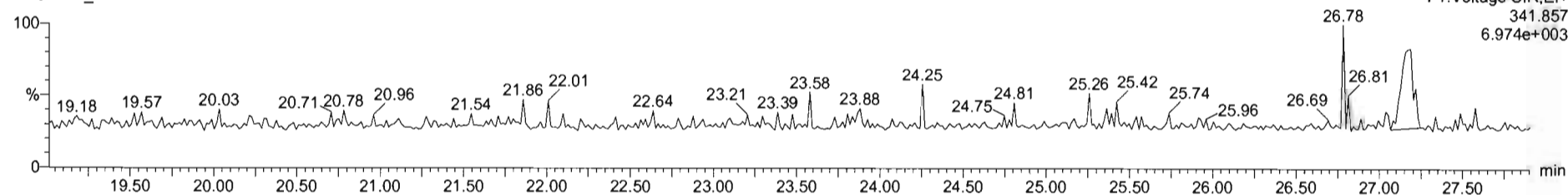
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1st Func. Penta-Furans

200501R1\_7

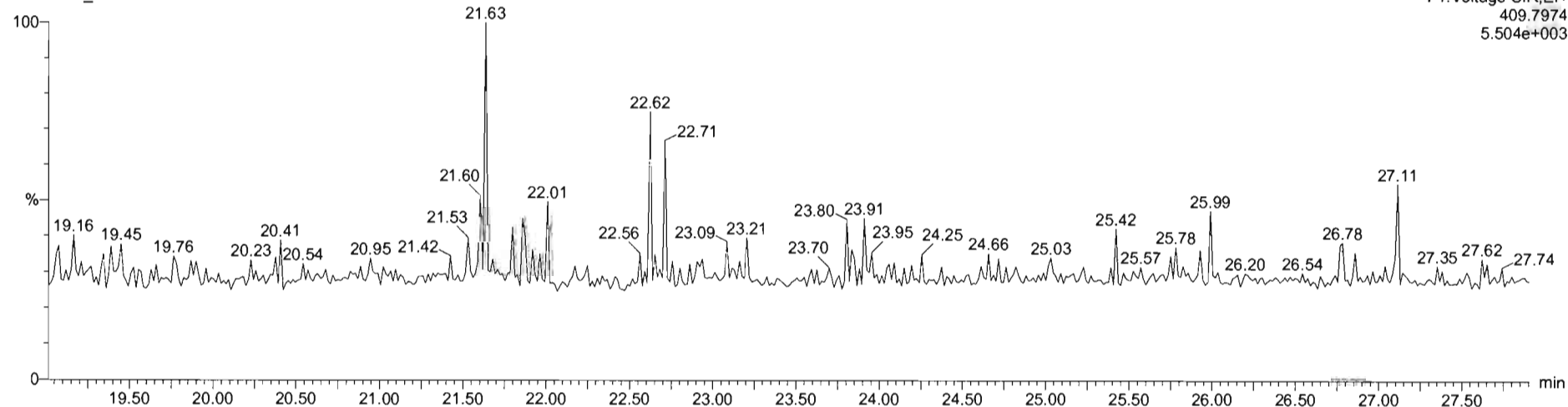


200501R1\_7



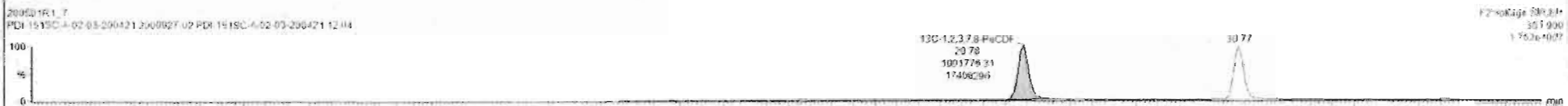
DPE6

200501R1\_7



#	Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9145	10.018			0.563	0.106	0.563	
42	Total Hepta-Dioxins				0.9275	10.015			1.72	0.225	1.72	
43	Total Tetra-Furans				0.7571	10.015				0.0216		
44	1st Func. Penta-Furans				0.9102	10.014			0.123	0.0238	0.123	
45	Total Penta-Furans				0.9102	10.015				0.0144		
46	Total Hexa-Furans				0.5217	10.015			0.350	0.0565	0.350	
47	Total Hepta-Furans				0.8712	10.015			0.963	0.169	0.963	
48	PFK1											
49	PFK2											

#	Name	RT	mt Resp	mc Resp	RA	n/y	EMPC	Conc.
1	1st Func. Penta-Furans	27.17	5.587e2	3.331e2	1.71	ND	0.12347	0.12347



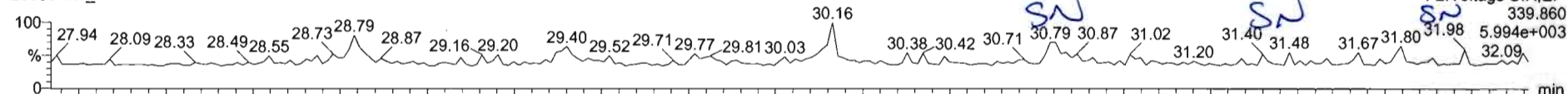
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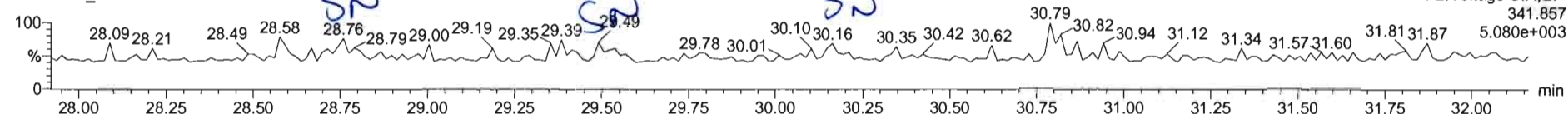
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**1,2,3,7,8-PeCDF**

200501R1\_7

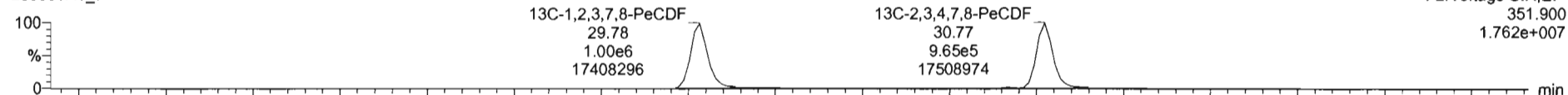


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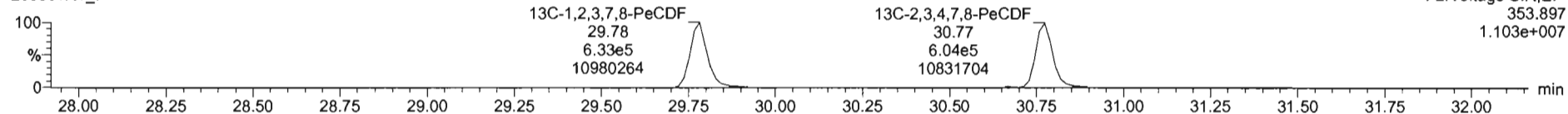


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200501R1\_7

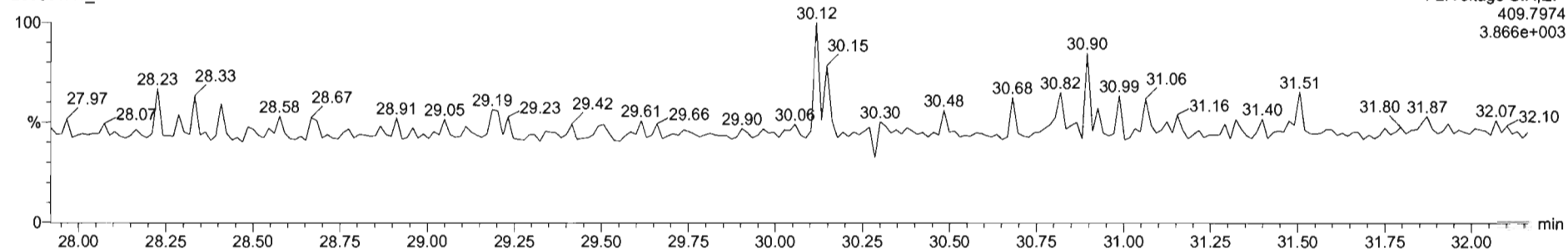


200501R1\_7



**DPE2**

200501R1\_7



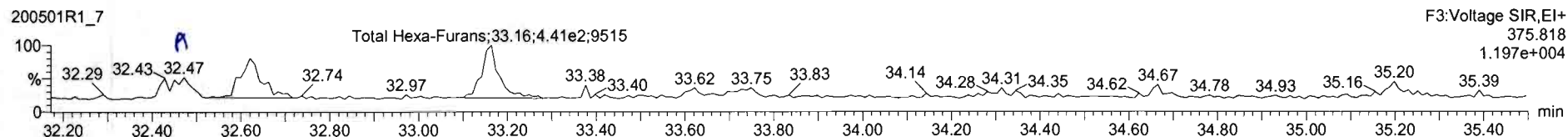
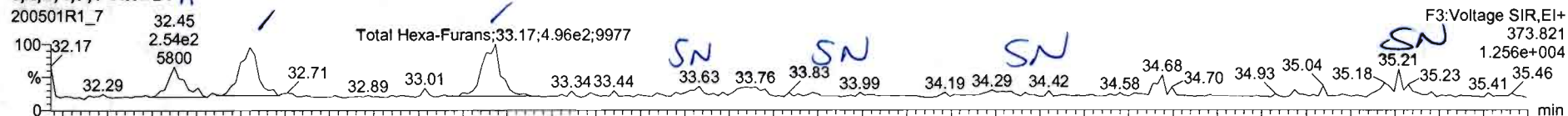


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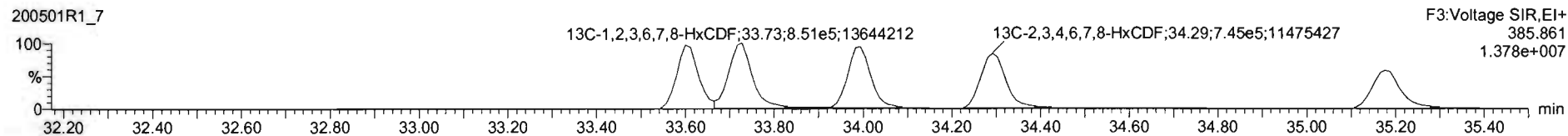
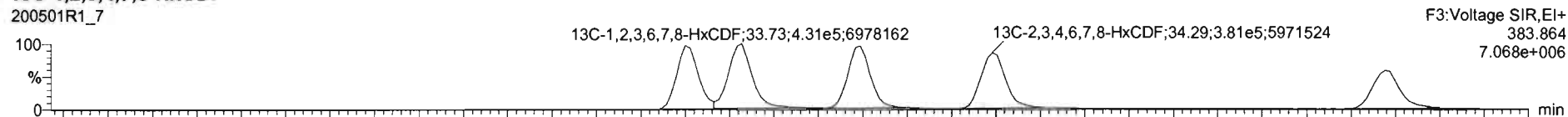
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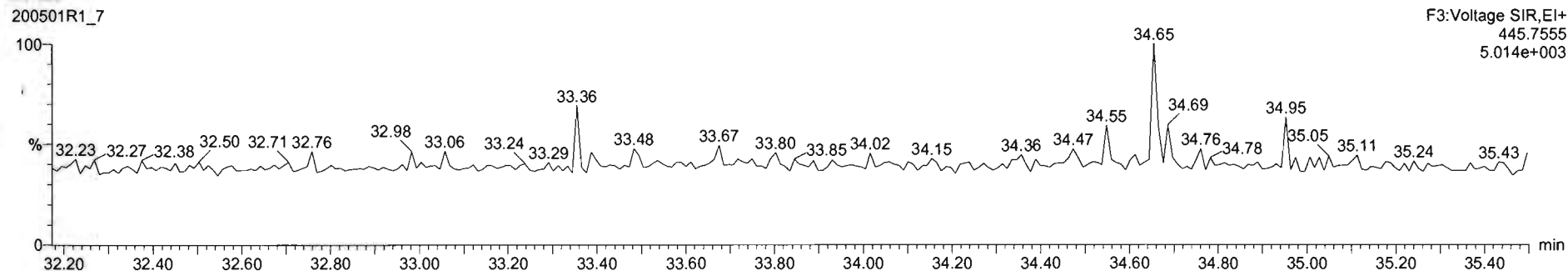
**1,2,3,4,7,8-HxCDF A**



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

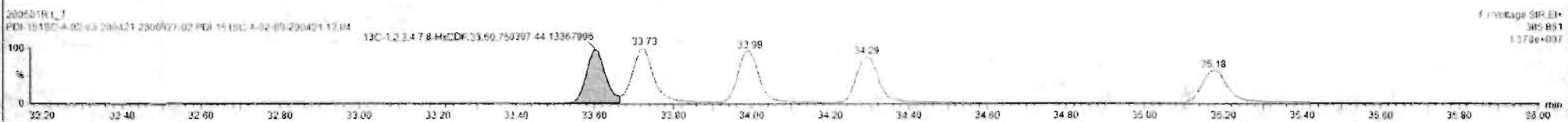


**DPE3**



Name	Resp	RA	inj	RRT	wtVol	RT	RRT	Conc	%Rec	QL	EMPC
41 Total Hexa-Furans				0.9145	10.018			0.587	0.108	0.582	
42 Total Hepta-Dioxins				0.8979	10.018			1.72	0.225	1.72	
43 Total Tetra-Furans				0.7571	10.018				0.0216		
44 1st Func. Penta-Furans				0.9182	10.018			0.123	0.0298	0.123	
45 Total Penta-Furans				0.9182	10.018				0.0144		
46 Total Hexa-Furans				0.8217	10.018			0.436	0.0585	0.436	
47 Total Hepta-Furans				0.8712	10.018			0.963	0.169	0.963	
48 PPK1											
49 PPK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.46	2.544e2	2.410e2	1.05	NO	0.096234	0.096034
2 Total Hexa-Furans	32.62	4.435e2	4.107e2	1.05	NO	0.16718	0.16718
3 Total Hexa-Furans	33.17	4.810e2	4.181e2	1.11	NO	0.13777	0.13777

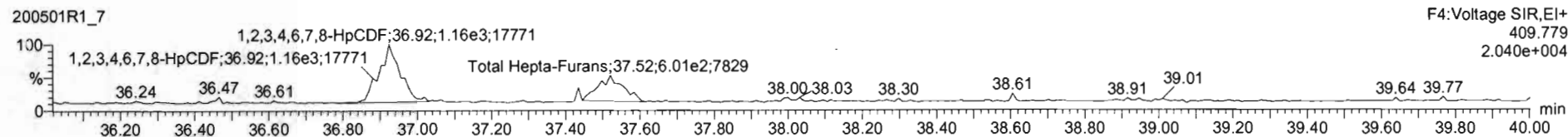
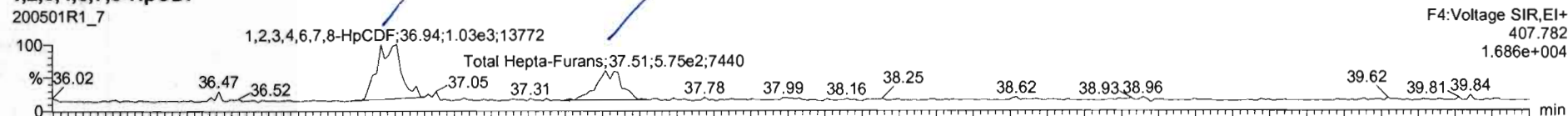


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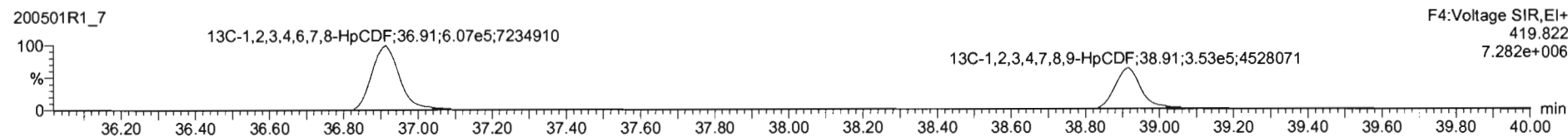
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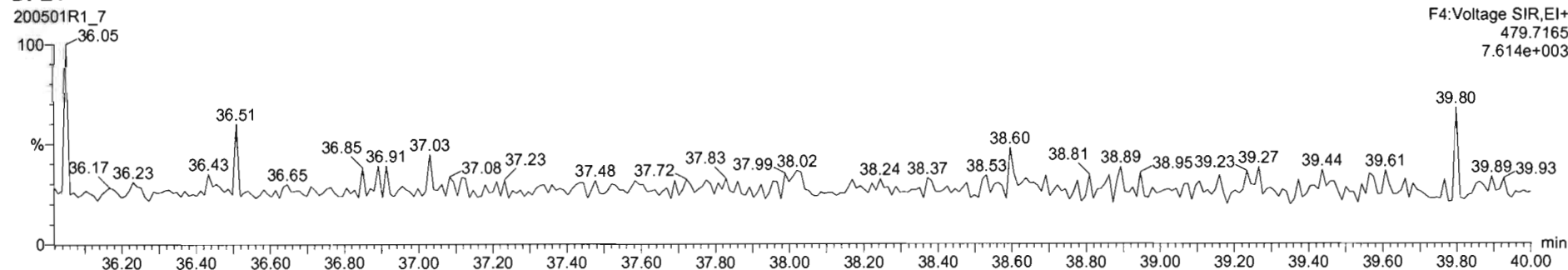
1,2,3,4,6,7,8-HpCDF



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

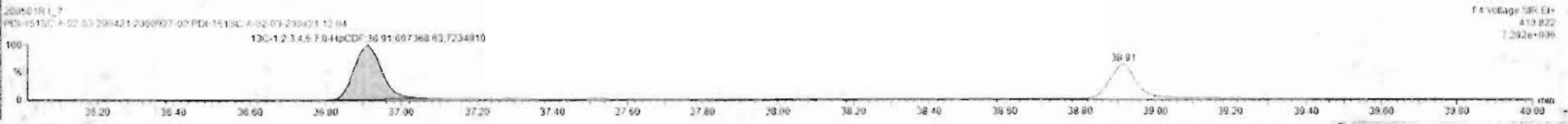
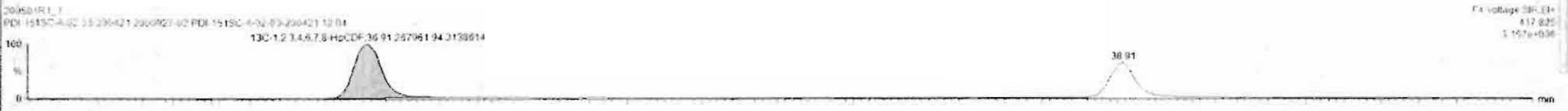
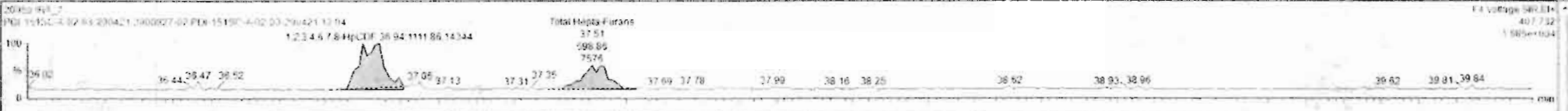


DPE4



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	MSec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	10.015			0.567		0.100	0.587
42 Total Hepta-Dioxins				0.6079	10.015			1.72		0.225	1.72
43 Total Tetra-Furans				0.7971	10.015					0.0216	
44 1st Func. Penta-Furans				0.9102	10.015			0.123		0.0238	0.123
45 2nd Penta-Furans				0.9122	10.015					0.0144	
46 Total Hexa-Furans				0.9217	10.015			0.436		0.0565	0.436
47 Total Hepta-Furans				0.9712	10.015			1.01		0.169	1.01
48 PPK1											
49 PPK2											

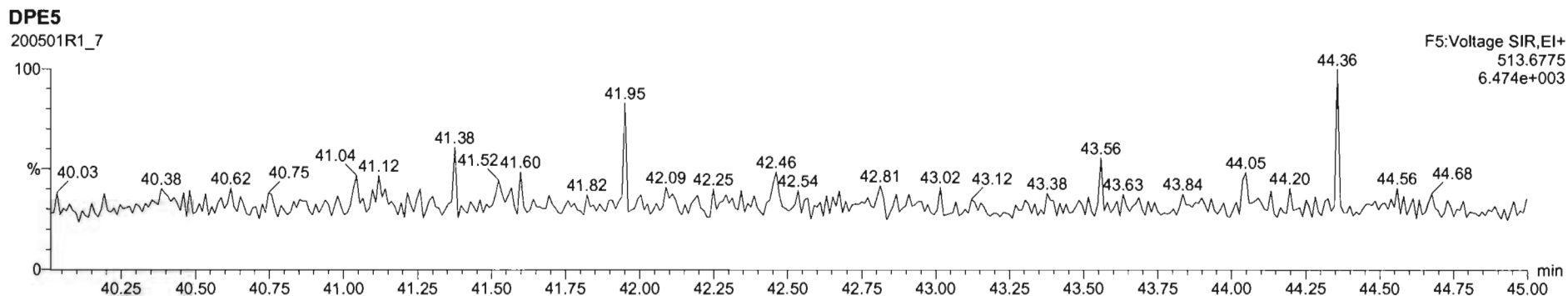
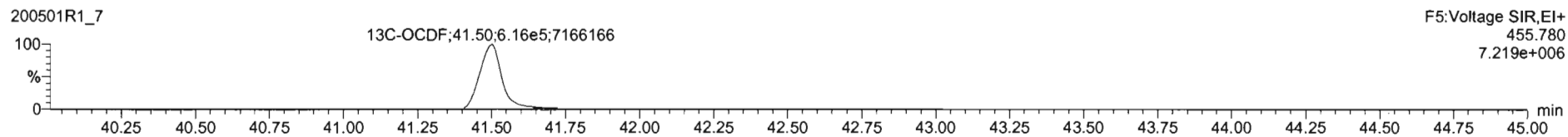
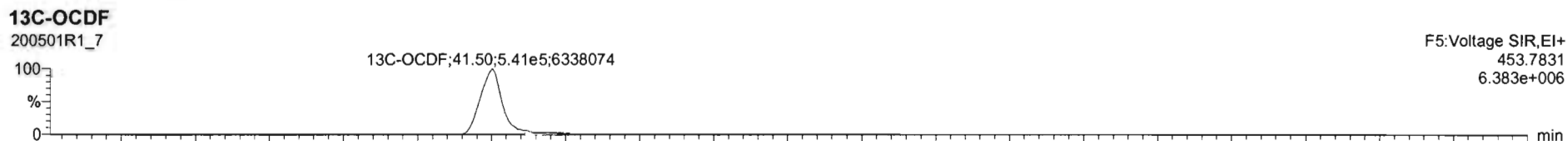
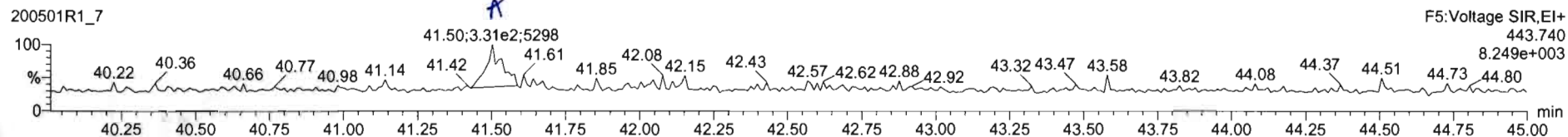
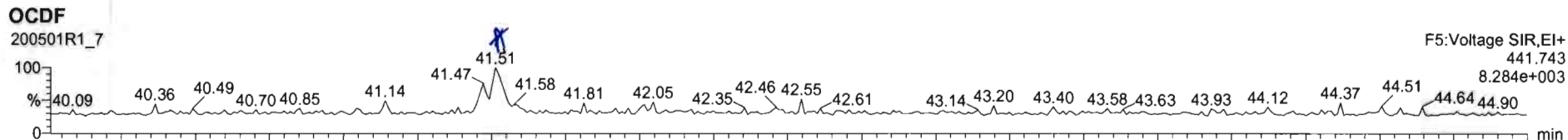
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1 1,2,3,4,6,7,8-HpCDF	36.94	1.112e3	1.179e3	0.95	NO	0.59748	0.59748
2 Total Hepta-Furans	37.51	5.909e2	6.632e2	0.95	NO	0.41621	0.41621



Dataset: Untitled

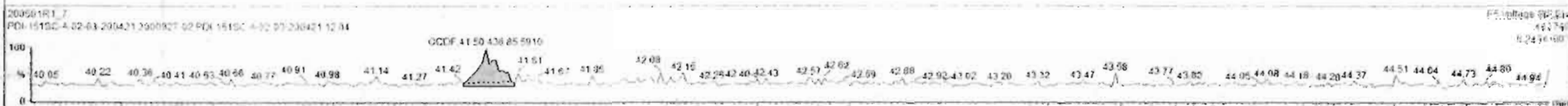
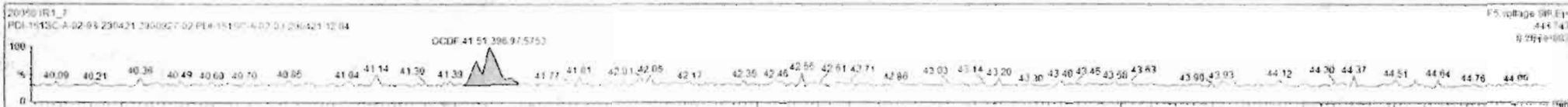
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Name: 200501R1\_7, Date: 01-May-2020, Time: 13:40:49, ID: 2000927-02 PDI-151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF	6.34e2	0.91	NO	0.0021	10.016	41.51	1.000	0.358	0.143	0.358
18	13C-2,3,7,8-TCDD	1.26e6	0.80	NO	1.1595	10.018	25.99	1.027	177	89.7	0.206
19	13C-1,2,3,7,8-PeCDD	1.07e6	0.62	NO	0.8472	10.018	31.09	1.226	202	101	0.366
20	13C-1,2,3,4,7,8-HxCDD	6.02e5	1.29	NO	0.7496	10.018	34.40	1.014	165	82.7	0.456
21	13C-1,2,3,6,7,8-HxCDD	5.99e5	1.26	NO	0.9630	10.018	34.67	1.017	190	89.5	0.396
22	13C-1,2,3,7,8,9-HxCDD	2.93e5	1.25	NO	0.6776	10.018	34.84	1.025	184	92.4	0.443
23	13C-1,2,3,4,6,7,8-HpCDD	4.62e5	1.06	NO	0.8415	10.018	38.33	1.128	167	83.5	0.473
24	13C-OCDF	1.59e6	0.89	NO	0.1863	10.018	41.32	1.216	311	77.5	0.367
25	13C-2,3,7,8-TCDF	1.71e6	0.75	NO	1.0346	10.018	25.05	0.989	171	85.7	0.306

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

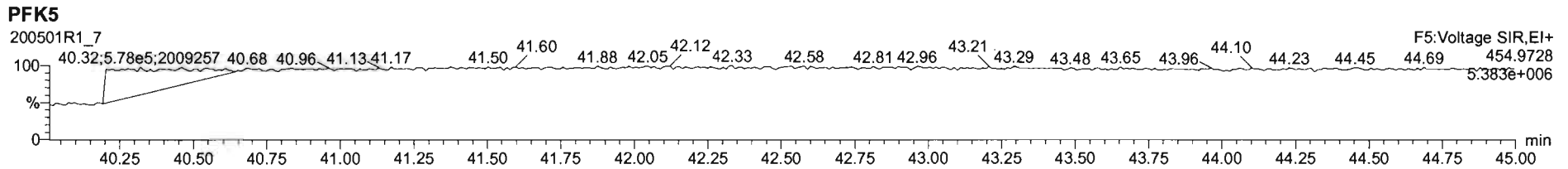
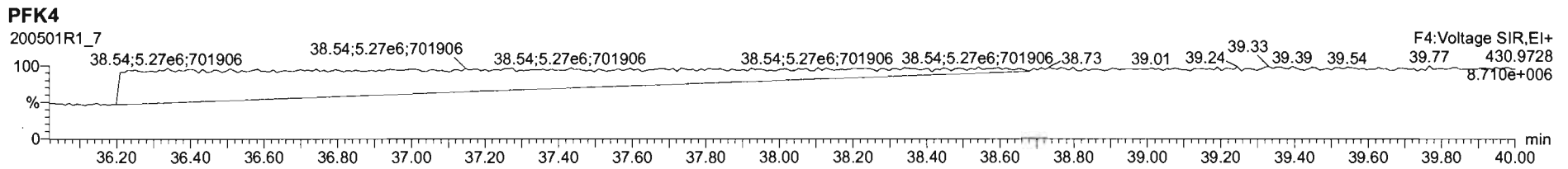
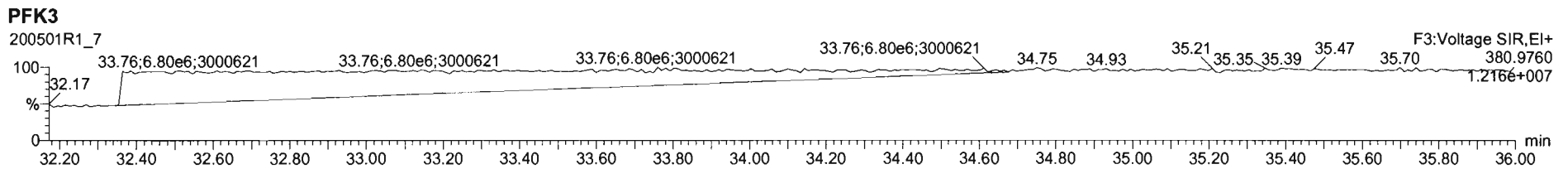
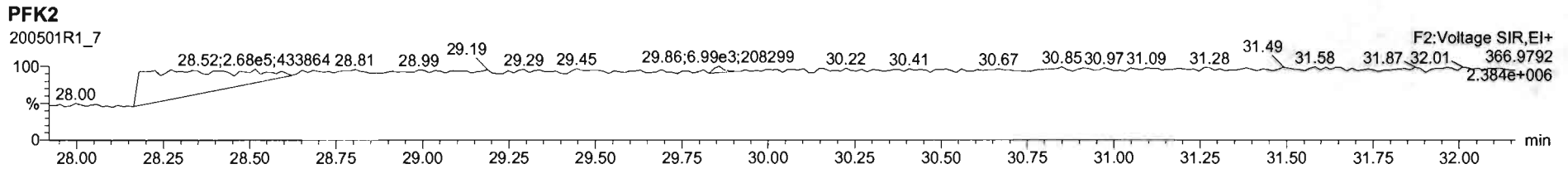
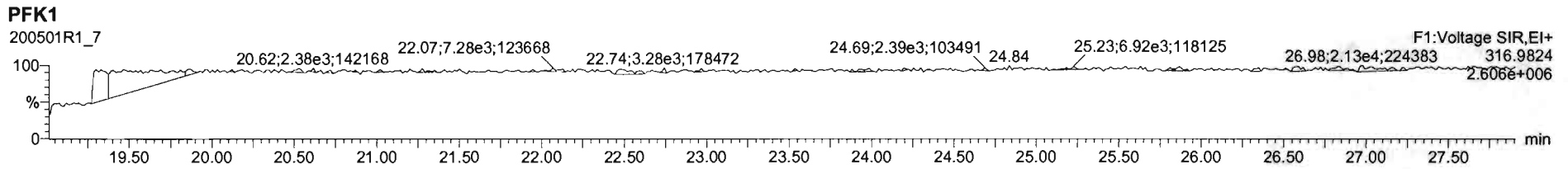


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Name: 200501R1\_7, Date: 01-May-2020, Time: 13:40:49, ID: 2000927-02 PDI-151SC-A-02-03-200421 12.04, Description: PDI-151SC-A-02-03-200421



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-4.qld

Last Altered: Saturday, May 02, 2020 9:30:11 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 9:30:38 AM Pacific Daylight Time

GRB 05/02/2020

LT 05/05/2020

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

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

Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

#	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	1.85e3	0.20	YES	0.947	10.084	26.021	26.02	1.001	1.001	0.27262		0.0552	0.103
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.084	31.101		1.001				0.0505	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.084	34.473		1.000				0.0745	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.084	34.559		1.000				0.0761	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.084	34.846		1.000				0.0854	
6	6 1,2,3,4,6,7,8-HpCDD	2.28e3	1.06	NO	0.898	10.084	38.341	38.34	1.000	1.000	0.67907		0.159	0.679
7	7 OCDD	1.99e4	0.89	NO	0.933	10.084	41.311	41.33	1.000	1.001	7.4691		0.0976	7.47
8	8 2,3,7,8-TCDF			NO	0.787	10.084	25.057		1.001				0.0383	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.084	29.788		1.001				0.0658	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.084	30.790		1.001				0.0616	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.084	33.600		1.000				0.0568	
12	12 1,2,3,6,7,8-HxCDF	7.75e2	1.24	NO	0.874	10.084	33.727	33.72	1.000	1.000	0.12665		0.0565	0.127
13	13 2,3,4,6,7,8-HxCDF	8.83e2	1.27	NO	0.922	10.084	34.316	34.30	1.001	1.001	0.15696		0.0608	0.157
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.084	35.176		1.000				0.0984	
15	15 1,2,3,4,6,7,8-HpCDF	4.66e3	0.97	NO	0.871	10.084	36.939	36.92	1.001	1.001	1.1227		0.0670	1.12
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.084	38.915		1.000				0.0905	
17	17 OCDF	1.71e3	0.91	NO	0.802	10.084	41.493	41.50	1.000	1.000	0.67928		0.0951	0.679
18	18 13C-2,3,7,8-TCDD	1.42e6	0.79	NO	1.16	10.084	25.984	25.99	1.026	1.027	175.18	88.3	0.179	
19	19 13C-1,2,3,7,8-PeCDD	1.11e6	0.63	NO	0.847	10.084	31.068	31.08	1.227	1.228	187.55	94.6	0.274	
20	20 13C-1,2,3,4,7,8-HxCDD	8.29e5	1.27	NO	0.750	10.084	34.463	34.46	1.014	1.014	169.32	85.4	0.419	
21	21 13C-1,2,3,6,7,8-HxCDD	1.08e6	1.28	NO	0.963	10.084	34.575	34.56	1.017	1.017	172.54	87.0	0.326	
22	22 13C-1,2,3,7,8,9-HxCDD	9.59e5	1.26	NO	0.838	10.084	34.844	34.84	1.025	1.025	175.40	88.4	0.375	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.41e5	1.06	NO	0.641	10.084	38.331	38.33	1.128	1.128	176.94	89.2	0.492	
24	24 13C-OCDD	1.13e6	0.89	NO	0.586	10.084	41.321	41.31	1.216	1.216	295.11	74.4	0.379	
25	25 13C-2,3,7,8-TCDF	1.95e6	0.78	NO	1.03	10.084	25.045	25.03	0.989	0.989	172.84	87.1	0.288	
26	26 13C-1,2,3,7,8-PeCDF	1.72e6	1.60	NO	0.845	10.084	29.759	29.77	1.176	1.176	186.79	94.2	0.405	
27	27 13C-2,3,4,7,8-PeCDF	1.66e6	1.57	NO	0.814	10.084	30.749	30.76	1.215	1.215	187.03	94.3	0.421	
28	28 13C-1,2,3,4,7,8-HxCDF	1.21e6	0.51	NO	1.00	10.084	33.603	33.60	0.989	0.989	183.74	92.6	0.466	
29	29 13C-1,2,3,6,7,8-HxCDF	1.39e6	0.52	NO	1.14	10.084	33.726	33.72	0.992	0.992	187.19	94.4	0.412	
30	30 13C-2,3,4,6,7,8-HxCDF	1.21e6	0.51	NO	1.02	10.084	34.293	34.28	1.009	1.009	181.32	91.4	0.458	
31	31 13C-1,2,3,7,8,9-HxCDF	9.61e5	0.51	NO	0.845	10.084	35.184	35.18	1.035	1.035	174.18	87.8	0.555	



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-4.qld

Last Altered: Saturday, May 02, 2020 9:30:11 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 9:30:38 AM Pacific Daylight Time

Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.44e5	0.44	NO	0.771	10.084	36.913	36.90	1.086	1.086	187.52	94.5	0.459	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.57e5	0.44	NO	0.482	10.084	38.922	38.92	1.145	1.145	176.74	89.1	0.734	
34	34 13C-OCDF	1.25e6	0.89	NO	0.669	10.084	41.491	41.49	1.221	1.221	285.82	72.1	0.295	
35	35 37Cl-2,3,7,8-TCDD	6.80e5			1.10	10.084	26.015	26.00	1.028	1.027	88.668	112	0.0627	
36	36 13C-1,2,3,4-TCDD	1.38e6	0.79	NO	1.00	10.084	25.350	25.32	1.000	1.000	198.34	100	0.207	
37	37 13C-1,2,3,4-TCDF	2.16e6	0.80	NO	1.00	10.084	23.560	23.52	1.000	1.000	198.34	100	0.298	
38	38 13C-1,2,3,4,6,9-HxCDF	1.30e6	0.52	NO	1.00	10.084	34.000	33.98	1.000	1.000	198.34	100	0.469	
39	39 Total Tetra-Dioxins				0.947	10.084	24.620		0.000		0.00000		0.0337	0.195
40	40 Total Penta-Dioxins				0.942	10.084	29.960		0.000		0.079422		0.0174	0.0794
41	41 Total Hexa-Dioxins				0.915	10.084	33.635		0.000		0.84301		0.0823	0.843
42	42 Total Hepta-Dioxins				0.898	10.084	37.640		0.000		1.9827		0.159	1.98
43	43 Total Tetra-Furans				0.787	10.084	23.610		0.000		0.00000		0.0187	0.0971
44	44 1st Func. Penta-Furans				0.910	10.084	27.090		0.000		0.93157		0.0165	0.932
45	45 Total Penta-Furans				0.910	10.084	29.275		0.000		0.46821		0.0656	0.616
46	46 Total Hexa-Furans				0.922	10.084	33.555		0.000		1.6908		0.0634	1.69
47	47 Total Hepta-Furans				0.871	10.084	37.835		0.000		1.8863		0.0811	1.89

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-4.qld

Last Altered: Saturday, May 02, 2020 9:30:11 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 9:30:38 AM Pacific Daylight Time

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

Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.70	3.469e3	4.842e3	3.320e2	3.503e2	0.95	YES	0.000e0	0.00000	0.091506	0.0552
2	2,3,7,8-TCDD	26.02	5.704e3	1.758e4	3.049e2	1.542e3	0.20	YES	1.847e3	0.00000	0.10344	0.0552

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.32	3.064e3	5.145e3	1.490e2	2.697e2	0.55	NO	4.187e2	0.079422	0.079422	0.0174

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	2.066e4	1.902e4	1.248e3	1.041e3	1.20	NO	2.289e3	0.51837	0.51837	0.0823
2	Total Hexa-Dioxins	33.80	1.300e4	9.642e3	7.902e2	6.434e2	1.23	NO	1.434e3	0.32464	0.32464	0.0823

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	2.596e4	2.664e4	2.136e3	2.238e3	0.95	NO	4.374e3	1.3036	1.3036	0.159
2	1,2,3,4,6,7,8-HpCDD	38.34	1.414e4	1.235e4	1.174e3	1.104e3	1.06	NO	2.278e3	0.67907	0.67907	0.159

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.87	3.689e3	2.688e3	2.675e2	2.309e2	1.16	YES	0.000e0	0.00000	0.052773	0.0383
2	Total Tetra-Furans	22.28	3.556e3	2.885e3	1.895e2	1.941e2	0.98	YES	0.000e0	0.00000	0.044371	0.0383

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.16	6.837e4	4.666e4	4.361e3	2.873e3	1.52	NO	7.235e3	0.93157	0.93157	0.0165

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-4.qld

Last Altered: Saturday, May 02, 2020 9:30:11 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 9:30:38 AM Pacific Daylight Time

3 ID: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.78	2.915e4	1.756e4	2.228e3	1.408e3	1.58	NO	3.636e3	0.46821	0.46821	0.0656
2	Total Penta-Furans	29.39	1.078e4	9.308e3	6.980e2	5.666e2	1.23	YES	0.000e0	0.00000	0.14786	0.0656

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.44	1.318e4	9.827e3	7.670e2	5.876e2	1.31	NO	1.355e3	0.24462	0.24462	0.0634
2	Total Hexa-Furans	32.62	4.310e4	4.014e4	2.405e3	2.037e3	1.18	NO	4.441e3	0.80207	0.80207	0.0634
3	Total Hexa-Furans	33.15	2.072e4	1.613e4	1.093e3	9.033e2	1.21	NO	1.996e3	0.36048	0.36048	0.0634
4	1,2,3,6,7,8-HxCDF	33.72	6.008e3	6.492e3	4.291e2	3.463e2	1.24	NO	7.754e2	0.12665	0.12665	0.0565
5	2,3,4,6,7,8-HxCDF	34.30	8.012e3	6.563e3	4.946e2	3.882e2	1.27	NO	8.828e2	0.15696	0.15696	0.0608

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.92	2.475e4	2.691e4	2.292e3	2.365e3	0.97	NO	4.657e3	1.1227	1.1227	0.0670
2	Total Hepta-Furans	37.51	1.592e4	1.375e4	1.304e3	1.213e3	1.08	NO	2.517e3	0.76356	0.76356	0.0811

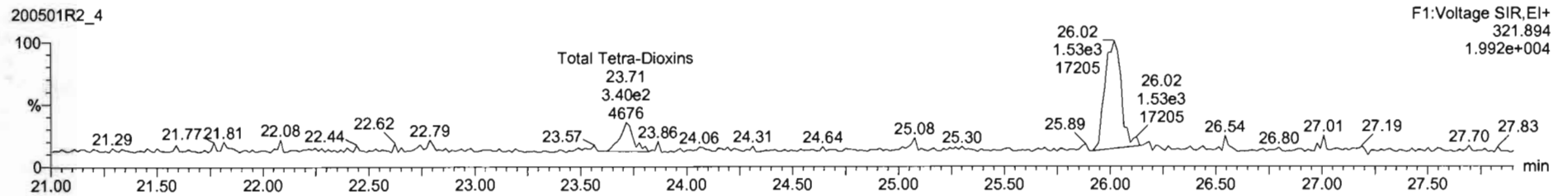
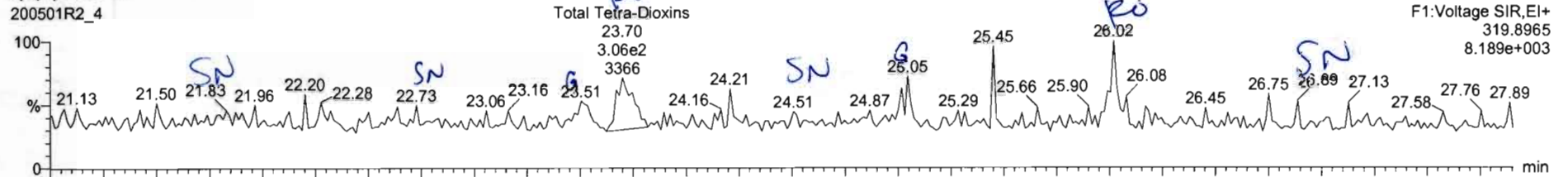
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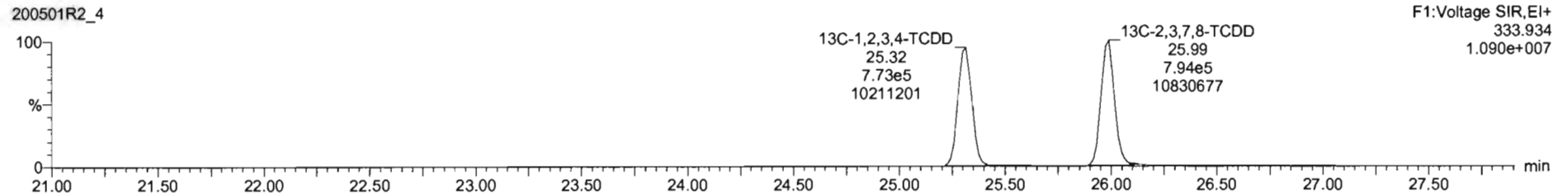
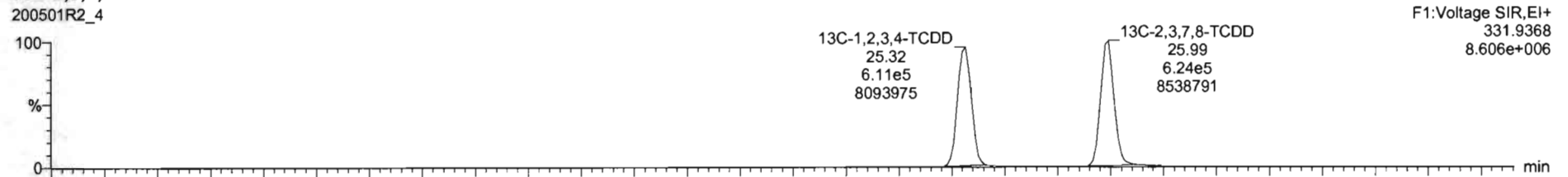
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Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

2,3,7,8-TCDD



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





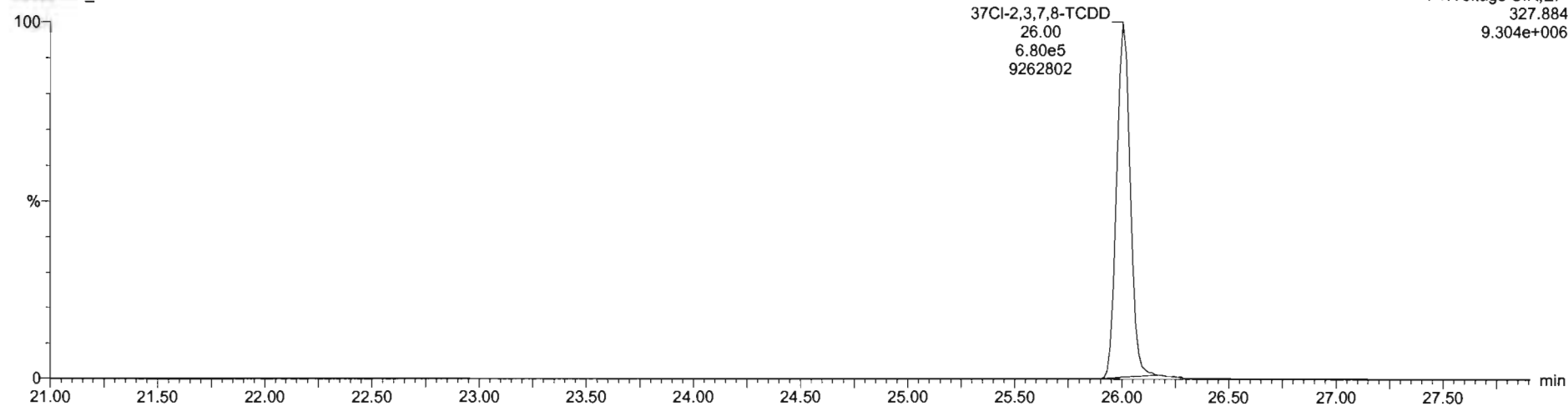
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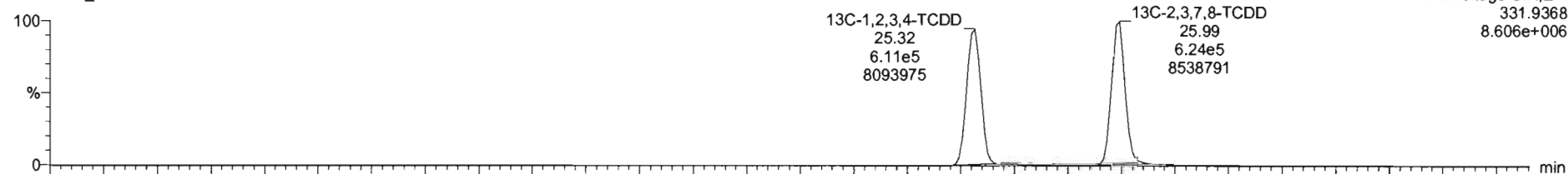
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200501R2\_4

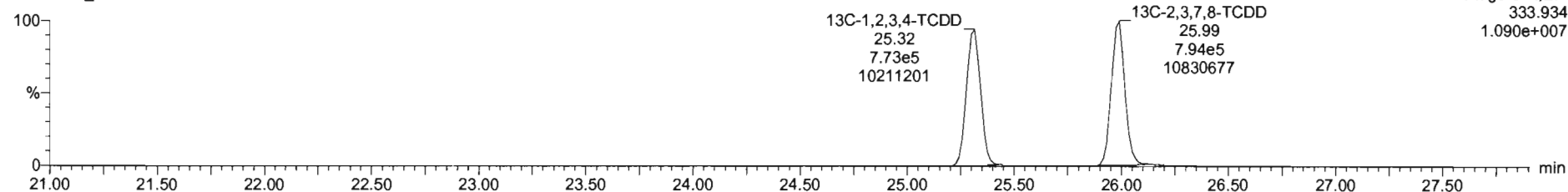


**13C-1,2,3,4-TCDD**

200501R2\_4



200501R2\_4



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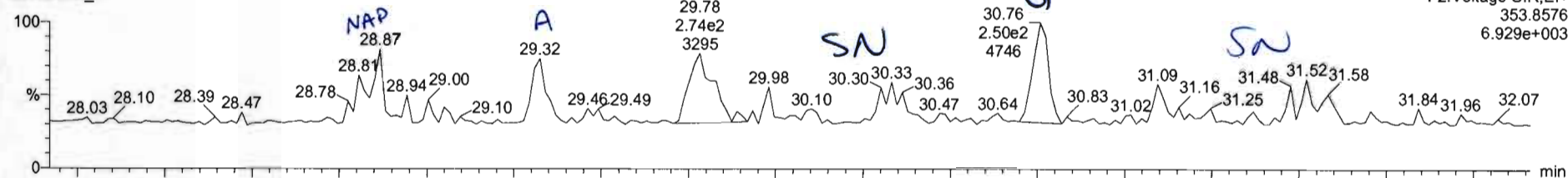
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

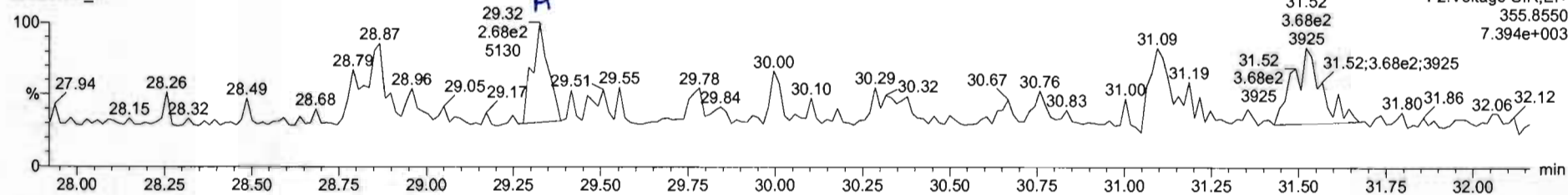
Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

1,2,3,7,8-PeCDD

200501R2\_4

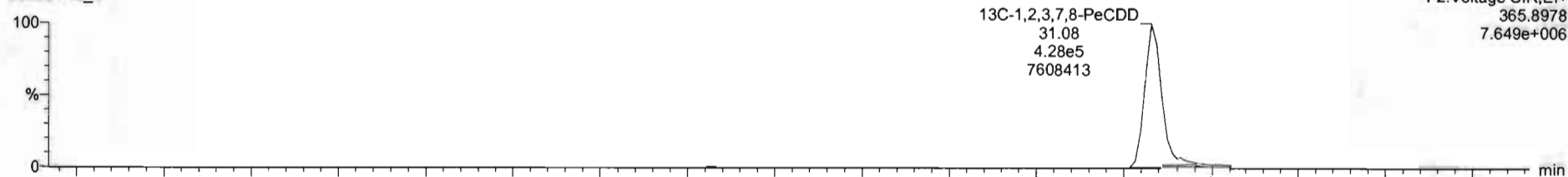


200501R2\_4

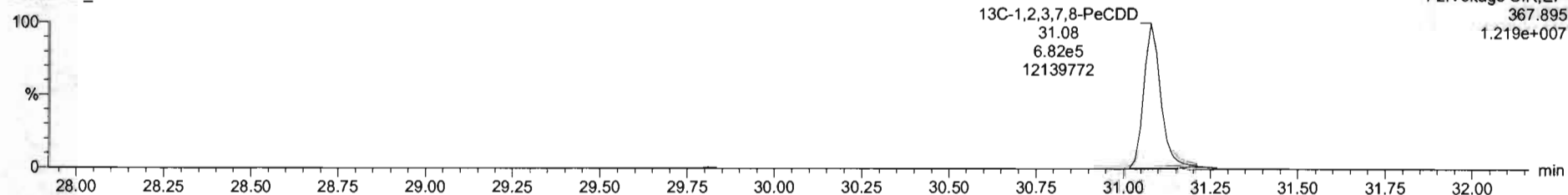


13C-1,2,3,7,8-PeCDD

200501R2\_4

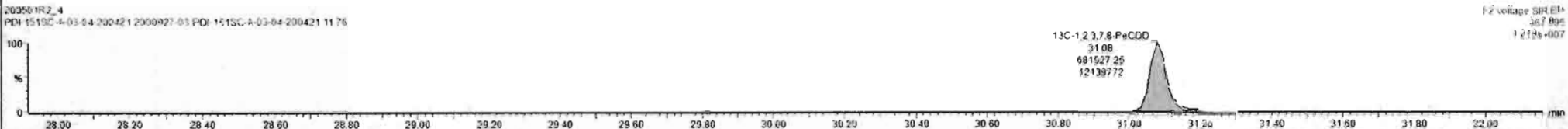
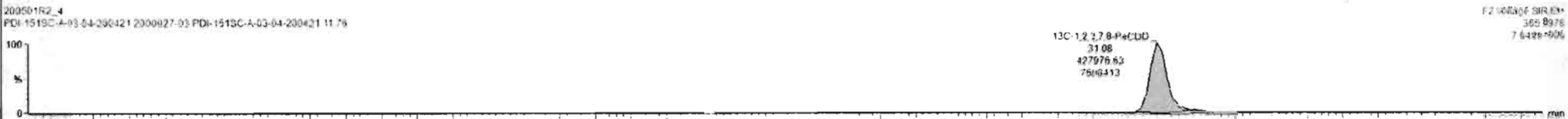
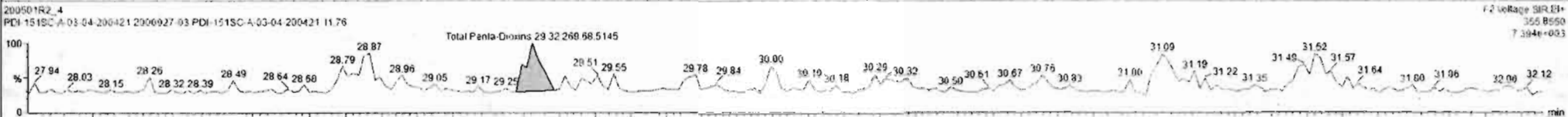
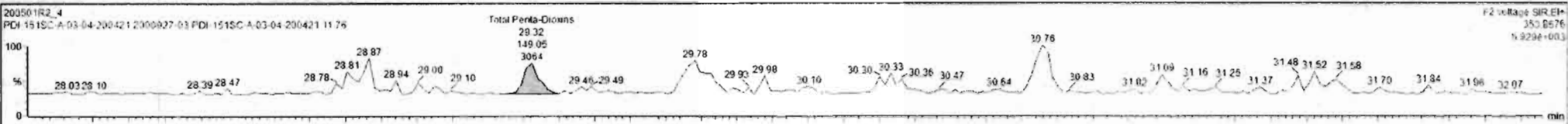


200501R2\_4



Name	Resp	RA	n1y	RRF	wtVol	RT	RRT	Conc	%Rec	OL	EMPC
39 Total Tetra-Dioxins				0.9475	10.064			0.000	0.0337	0.195	
40 Total Penta-Dioxins				0.9425	10.084			0.0794	0.0174	0.0764	
41 Total Hexa-Dioxins				0.9145	10.084			0.311	0.0822	0.011	
42 Total Hepta-Dioxins				0.8979	10.084			1.97	0.151	1.07	
43 Total Tetra-Furans				0.7871	10.084			0.000	0.0187	0.0528	

Name	RT	m1 Resp	m2 Resp	RA	n1y	EMPC	Conc
1 Total Penta-Dioxins	29.32	1.490e2	2.697e2	0.55	NO	0.079422	0.079422





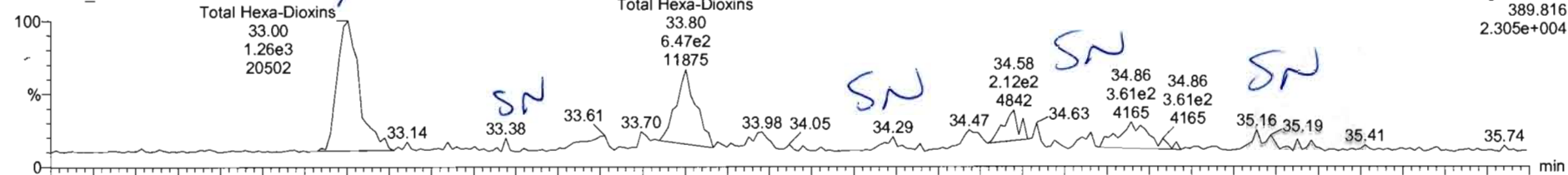
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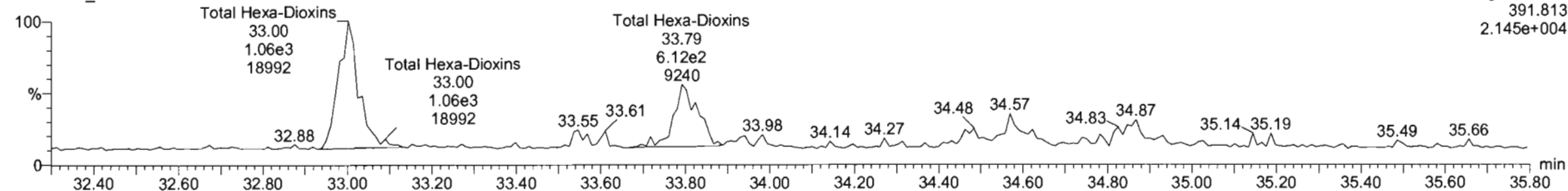
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1,2,3,4,7,8-HxCDD

200501R2\_4

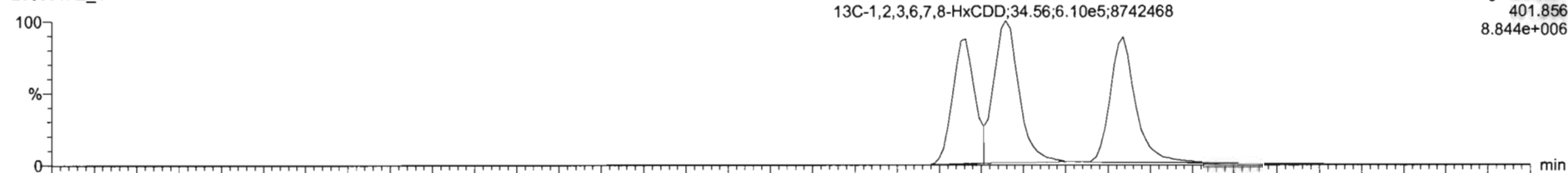


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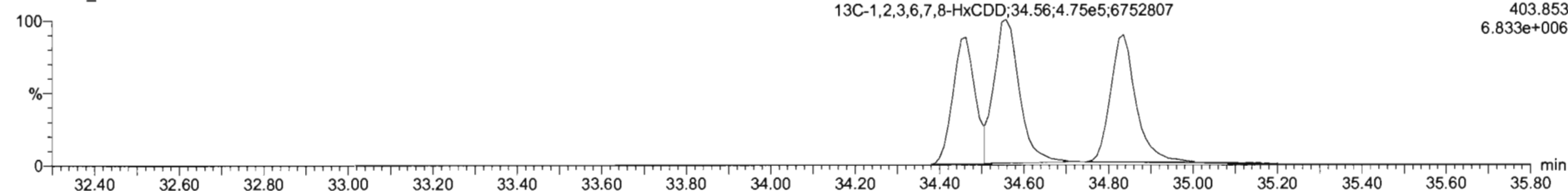


13C-1,2,3,4,7,8-HxCDD

200501R2\_4

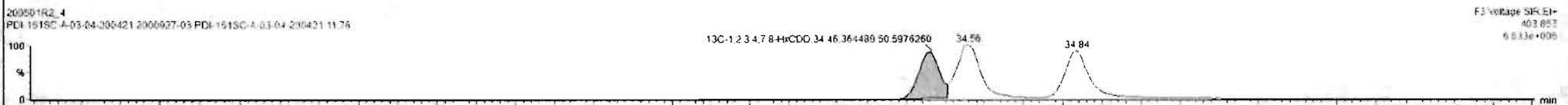
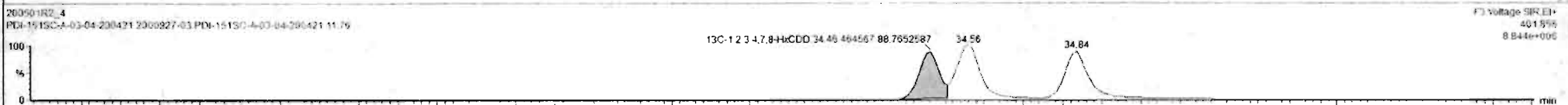
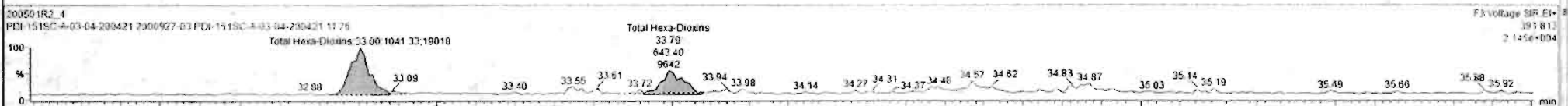


200501R2\_4



SI	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	OL	EMPC
39	Total Tetra-Dioxins				0.9475	10.084			0.000	0.0337	0.105	
40	Total Penta-Dioxins				0.6425	10.084			0.0794	0.0174	0.0754	
41	Total Hexa-Dioxins				0.5145	10.084			0.543	0.0623	0.648	
42	Total Hepta-Dioxins				0.8575	10.084			1.97	0.161	1.97	
43	Total Tetra-Furans				0.7571	10.084			0.000	0.0187	0.0526	

SI	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.00	1.240e2	1.041e3	1.20	NO	0.51627	0.51837
2	Total Hexa-Dioxins	33.80	7.902e2	6.434e2	1.23	NO	0.32464	0.32464



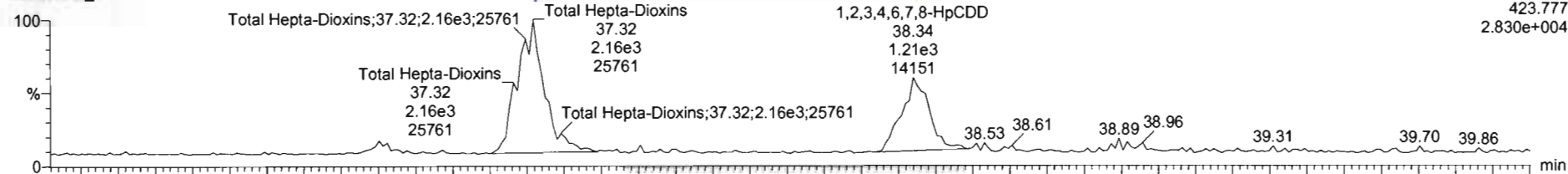
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

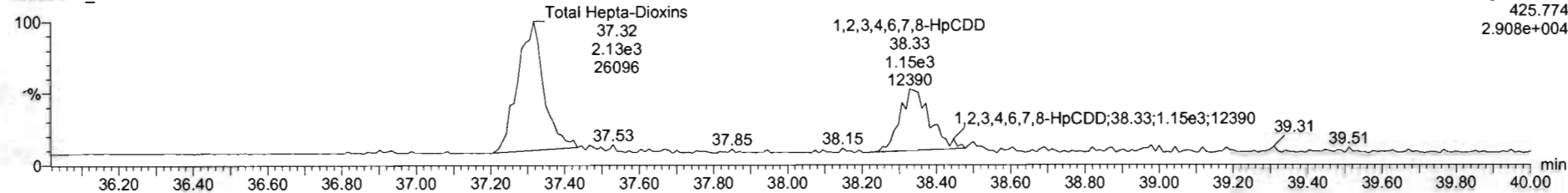
1,2,3,4,6,7,8-HpCDD

200501R2\_4



F4:Voltage SIR,EI+  
423.777  
2.830e+004

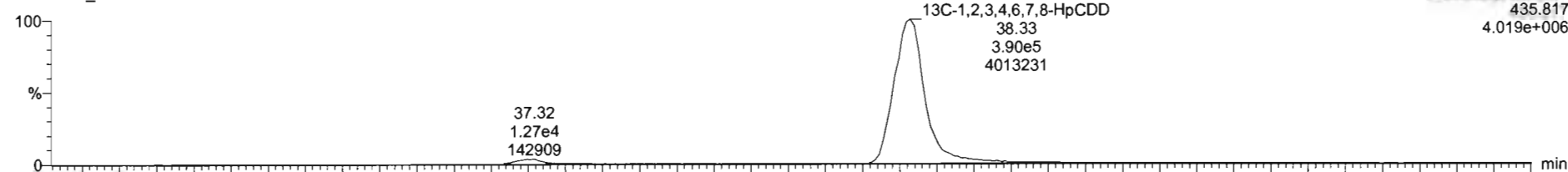
200501R2\_4



F4:Voltage SIR,EI+  
425.774  
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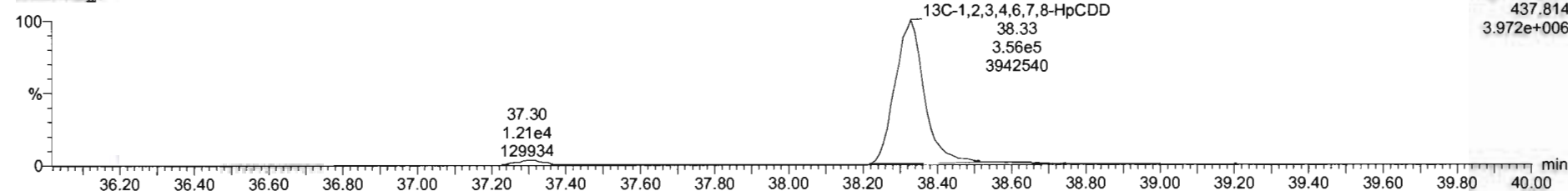
13C-1,2,3,4,6,7,8-HpCDD

200501R2\_4



F4:Voltage SIR,EI+  
435.817  
4.019e+006

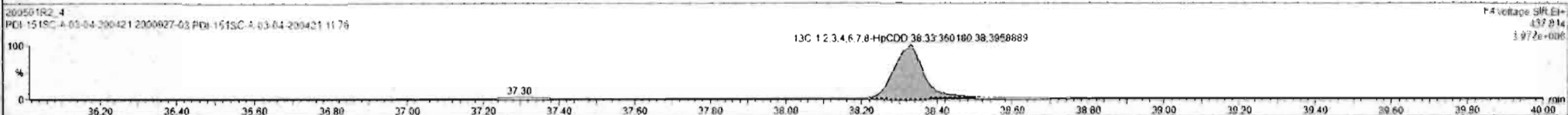
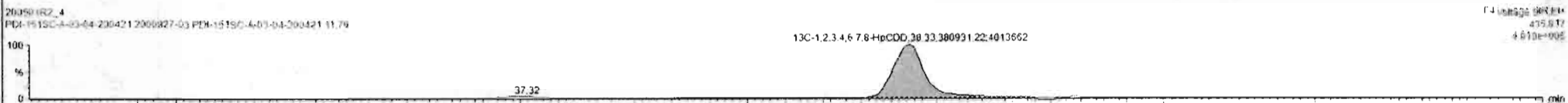
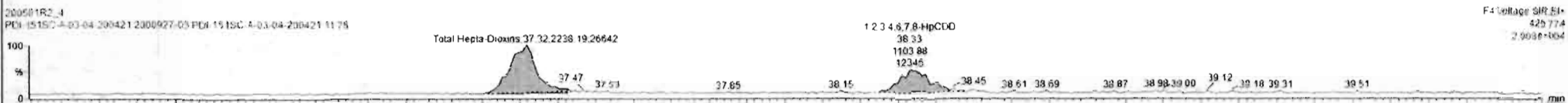
200501R2\_4



F4:Voltage SIR,EI+  
437.814  
3.972e+006

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9475	10.084			0.000	0.0337	0.195	
40	Total Penta-Dioxins			0.9425	10.084			0.0794	0.0174	0.0794	
41	Total Hexa-Dioxins			0.9145	10.084			0.543	0.0823	0.843	
42	Total Hepta-Dioxins			0.6679	10.084			1.98	0.159	1.98	
43	Total Tetra-Furans			0.7571	10.084			0.000	0.0167	0.0558	

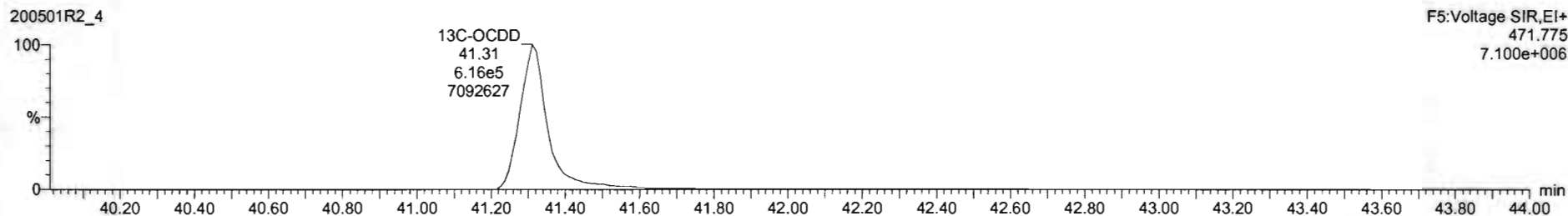
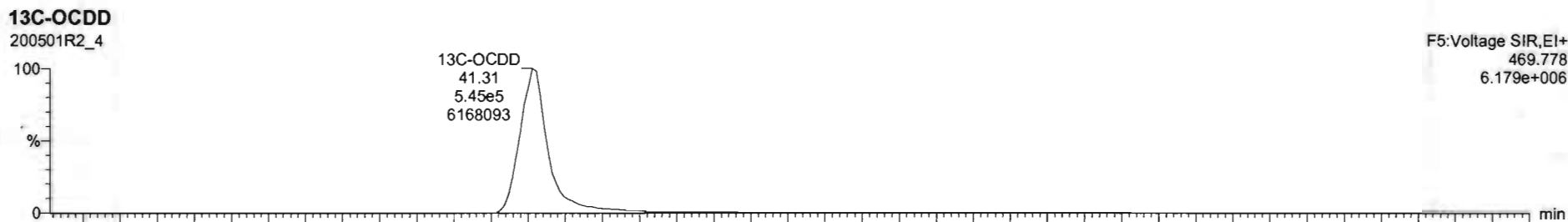
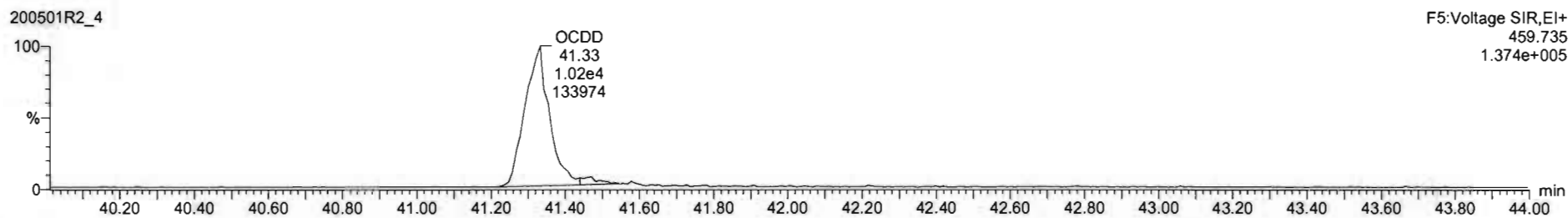
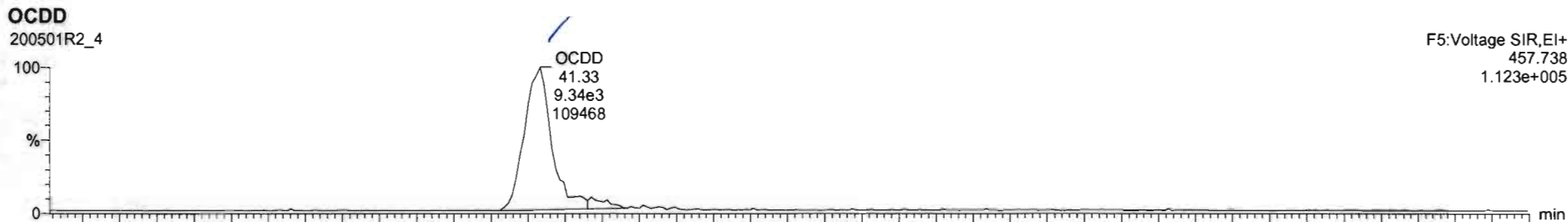
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Hepta-Dioxins	37.32	2.130e3	2.238e3	0.95	NO	1.3036	1.3036
2	1,2,3,4,6,7,8-HpCDD	38.34	1.174e3	1.104e3	1.06	NO	0.67907	0.67907



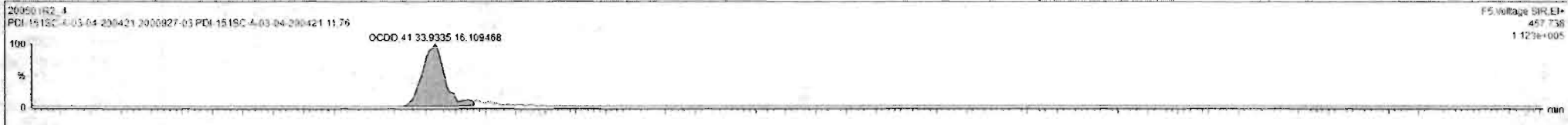
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421



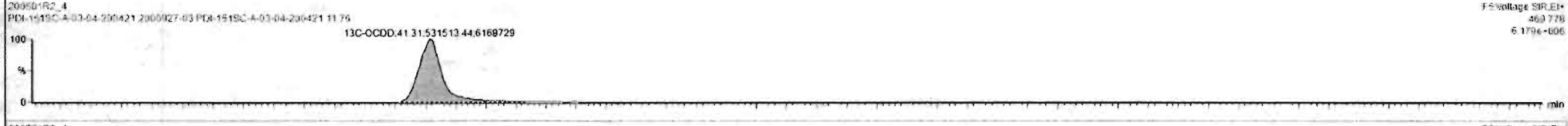
SI	Name	Resp	RA	nBy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
2	1,2,3,7,8-PeCDD			NO	0.9425	10.084					0.0505	
3	1,2,3,4,7,8-HxCDD			NO	1.0841	10.084					0.0745	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.084					0.0781	
5	1,2,3,7,8-HxCDD			NO	0.9145	10.084					0.0854	
6	1,2,3,4,6,7,8-HpCDD	2.36e3	1.05	NO	0.8975	10.084	36.34	1.000	0.698		0.161	0.698
7	OCDD	1.89e4	0.89	NO	0.8335	10.084	41.33	1.001	7.47		0.0976	7.47
8	2,3,7,8-TCDF			NO	0.7971	10.084					0.0382	
9	1,2,3,7,8-PeCDF			NO	0.9102	10.084					0.0658	
10	2,3,4,7,8-PeCDF			NO	0.9964	10.084					0.0616	
11	1,2,3,4,7,8-HxCDF			NO	0.8782	10.084					0.0568	
12	1,2,3,6,7,8-HxCDF	6.96e2	1.19	NO	0.8740	10.084	33.72	1.000	0.114		0.0565	0.114
13	2,3,4,6,7,8-HxCDF	6.85e2	0.90	YES	0.9217	10.084	34.30	1.001	0.157		0.0608	0.135
14	1,2,3,7,8,9-HxCDF			NO	0.8642	10.084					0.0984	
15	1,2,3,4,6,7,8-HpCDF	4.77e3	1.02	NO	0.8712	10.084	36.92	1.001	1.15		0.0674	1.15
16	1,2,3,4,7,8,9-HpCDF			NO	1.0116	10.084					0.0905	
17	OCDF	1.71e3	0.91	NO	0.8021	10.084	41.50	1.000	0.879		0.0951	0.879
18	1,2,3,6,7,8-HxCDF	1.42e6	0.79	NO	1.1595	10.084	25.99	1.027	175	88.3	0.179	



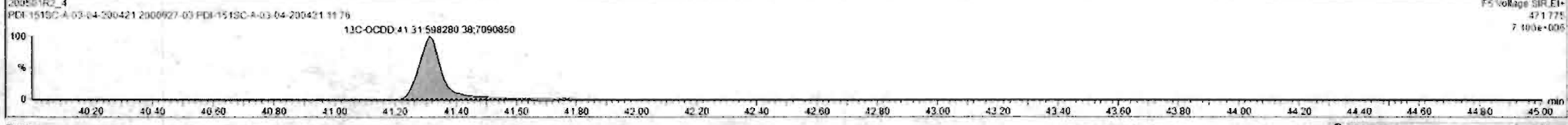
F5 Voltage SIR.EI+  
457.736  
1.129e+005



F5 Voltage SIR.EI+  
459.735  
1.374e+005



F5 Voltage SIR.EI+  
463.778  
5.179e+006



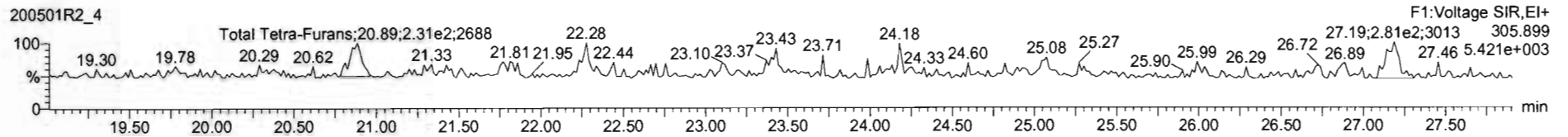
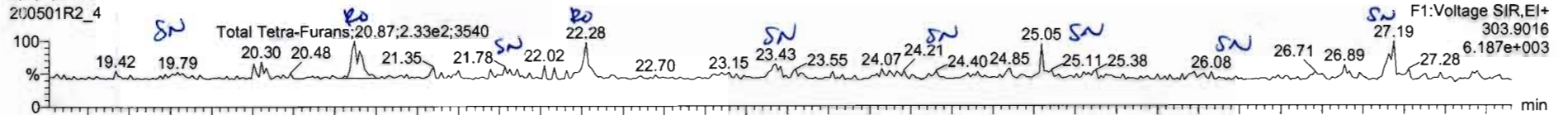
F5 Voltage SIR.EI+  
471.775  
7.103e+006

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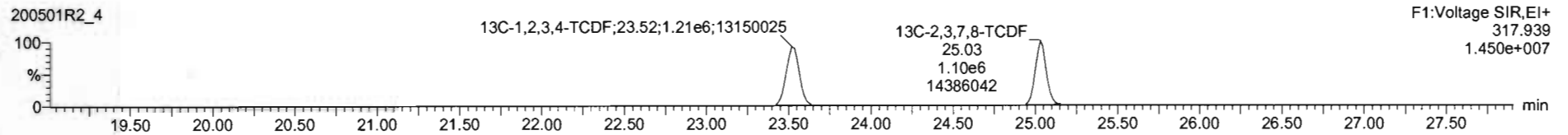
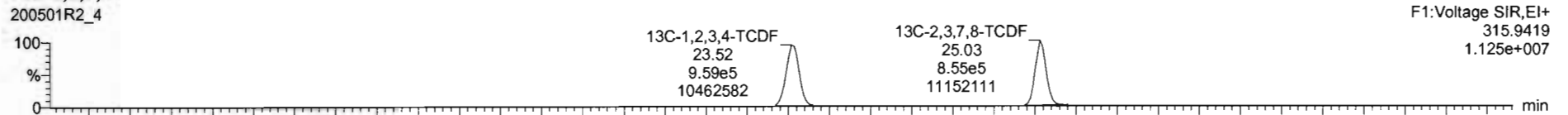
Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

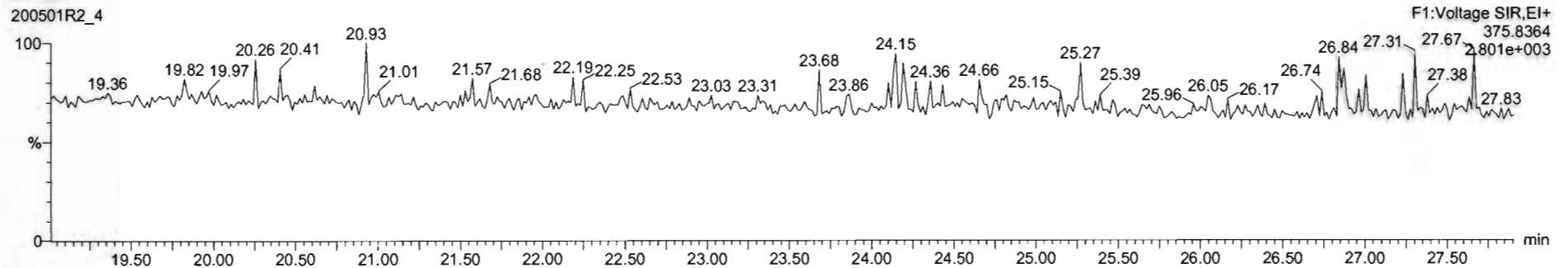
2,3,7,8-TCDF



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

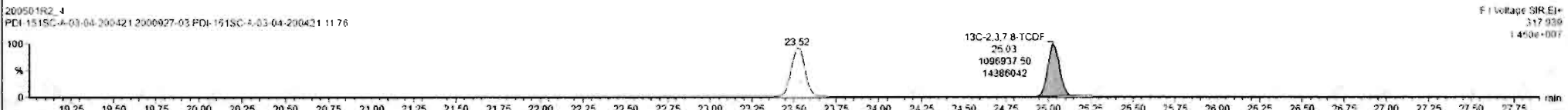
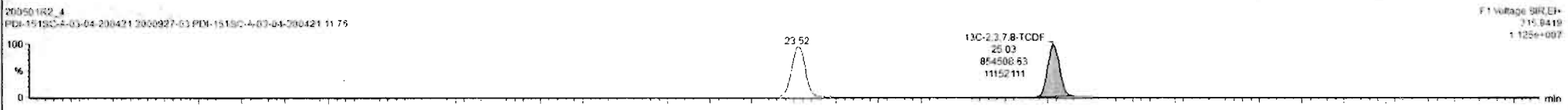
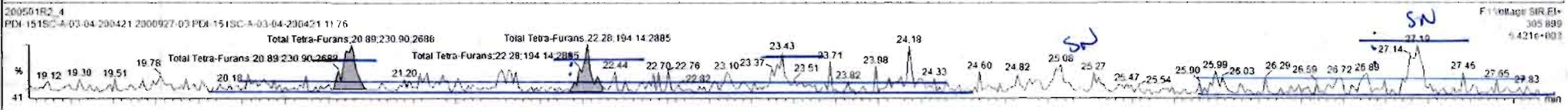
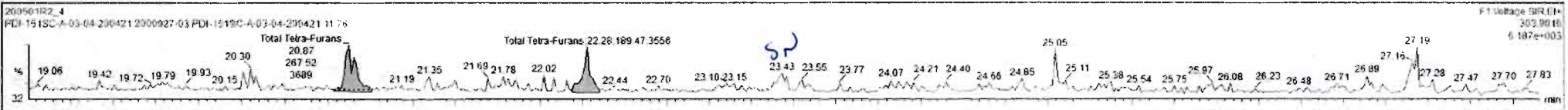


DPE1



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.084			0.000	0.0337	0.195	
40 Total Penta-Dioxins				0.9425	10.084			0.0794	0.0174	0.0754	
41 Total Hexa-Dioxins				0.9145	10.064			0.843	0.0823	0.543	
42 Total Hepta-Dioxins				0.8975	10.064			1.98	0.159	1.98	
43 Total Tetra-Furans				0.7671	10.064			0.000	0.0187	0.0971	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.87	2.875e2	2.309e2	1.16	YES	0.052773	0.00000
2 Total Tetra-Furans	22.28	1.855e2	1.941e2	0.98	YES	0.044371	0.00000





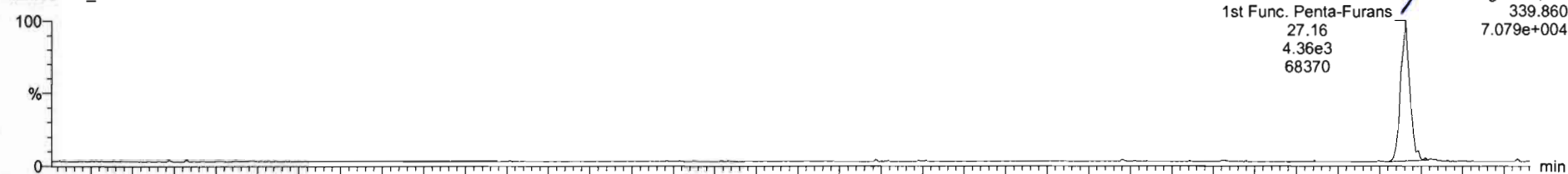
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

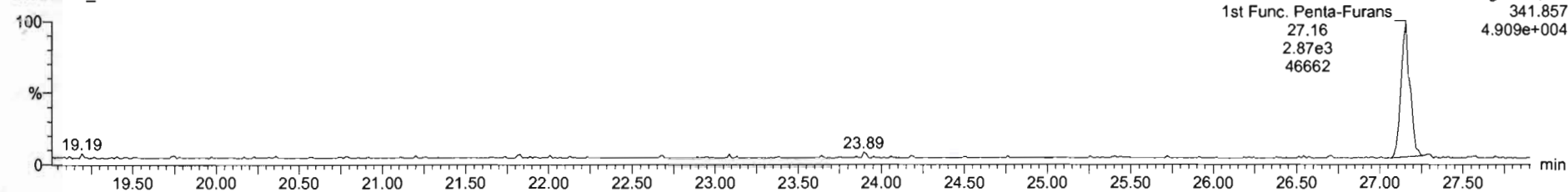
Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

1st Func. Penta-Furans

200501R2\_4

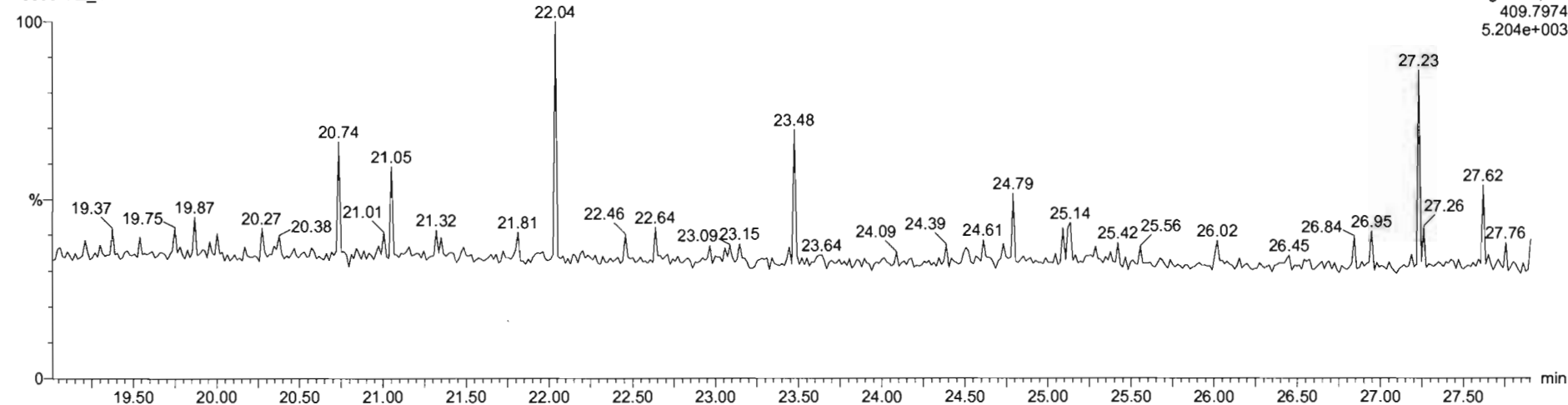


200501R2\_4



DPE6

200501R2\_4

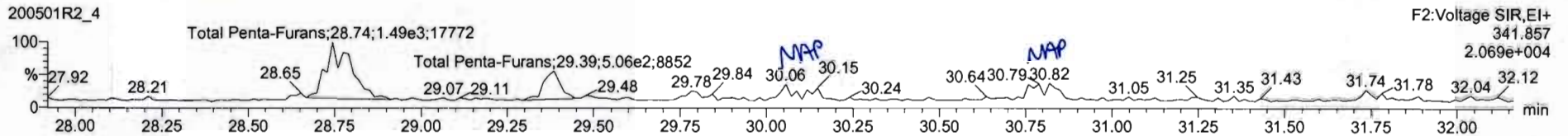
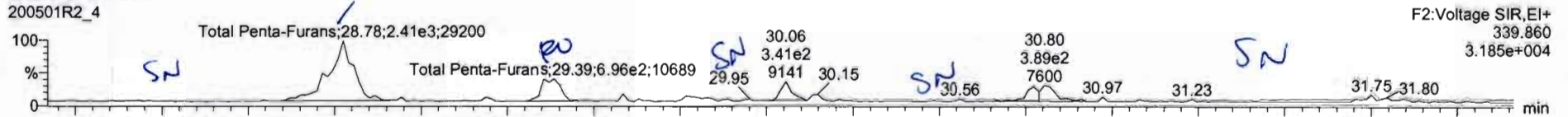


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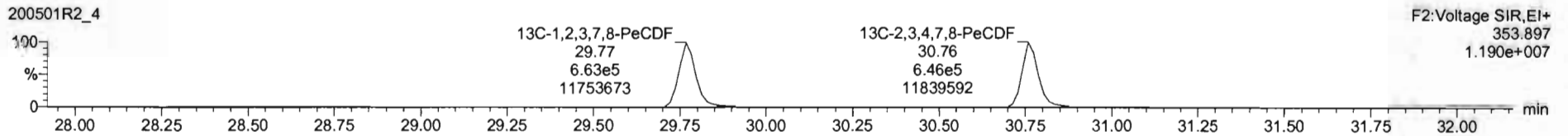
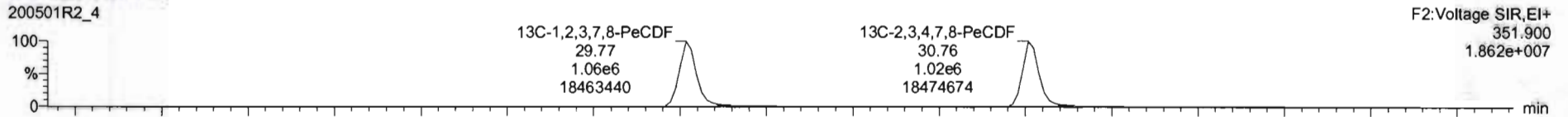
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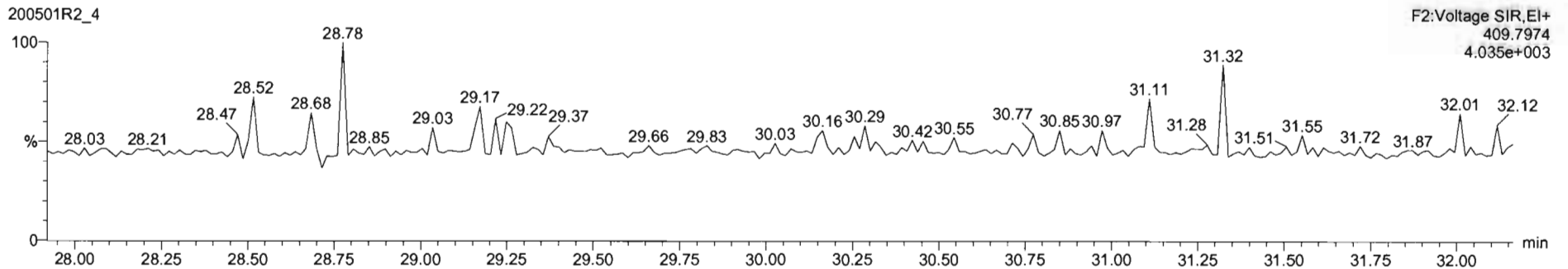
1,2,3,7,8-PeCDF



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

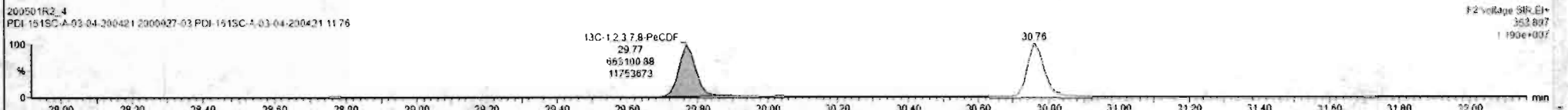
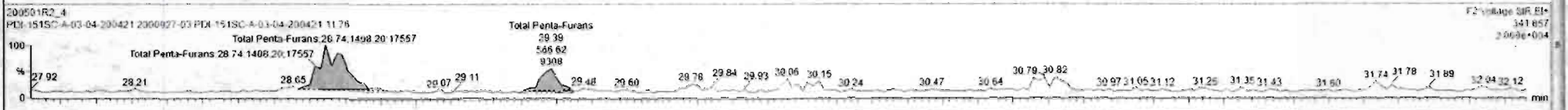
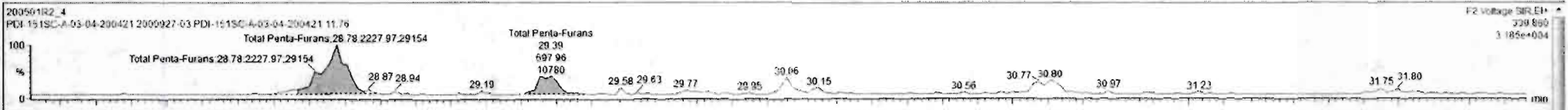


DPE2



Name	Reap	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.004			5.468	0.0635	0.616	
46 Total Hexa-Furans				0.9217	10.004			1.54	0.0634	1.67	
47 Total Hepta-Furans				0.8712	10.004			1.89	0.0614	1.89	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.78	2.226e3	1.408e3	1.56	NO	0.46621	0.46621
2 Total Penta-Furans	29.39	5.980e2	5.866e2	1.23	YES	0.14785	0.00000

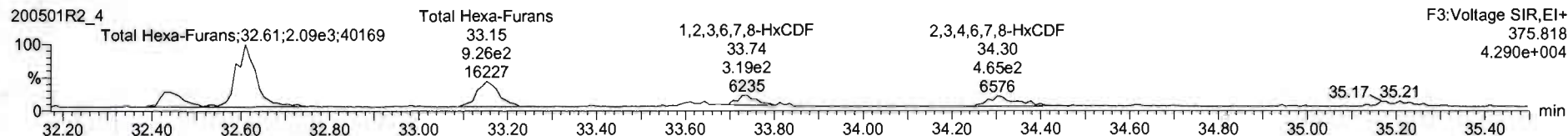
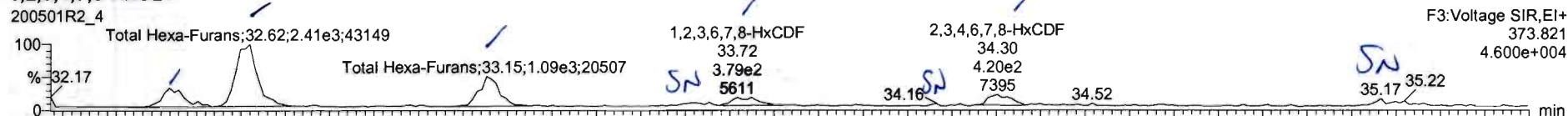


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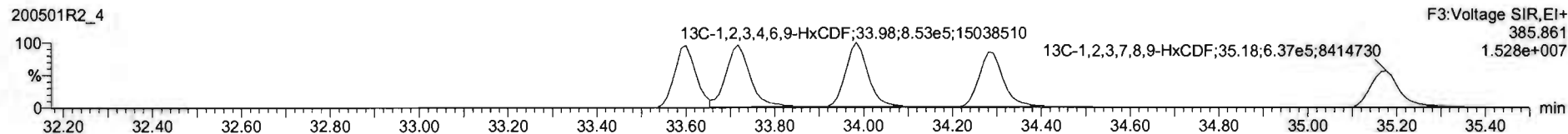
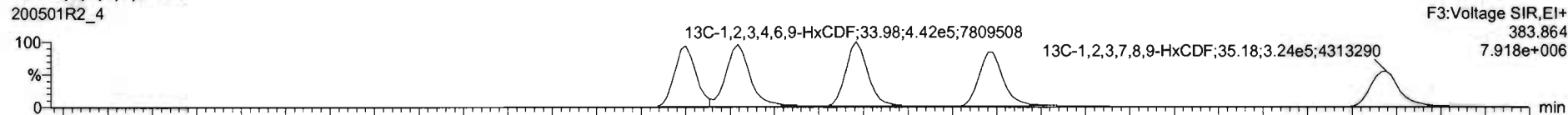
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

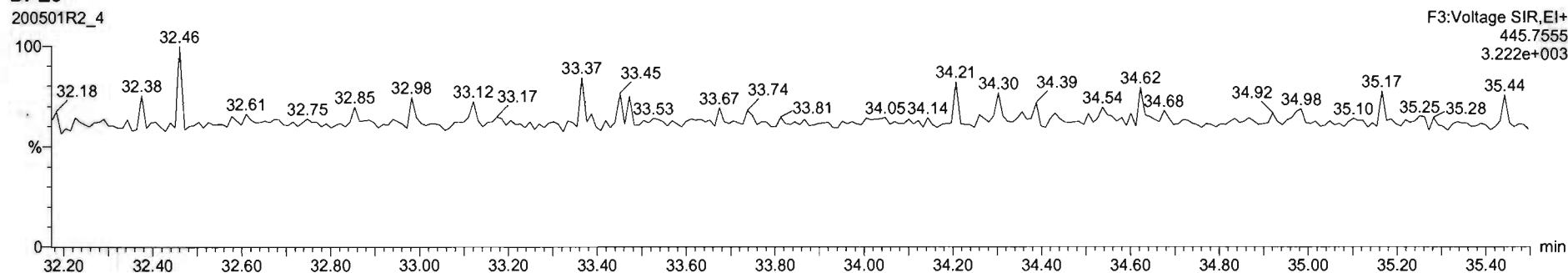
1,2,3,4,7,8-HxCDF

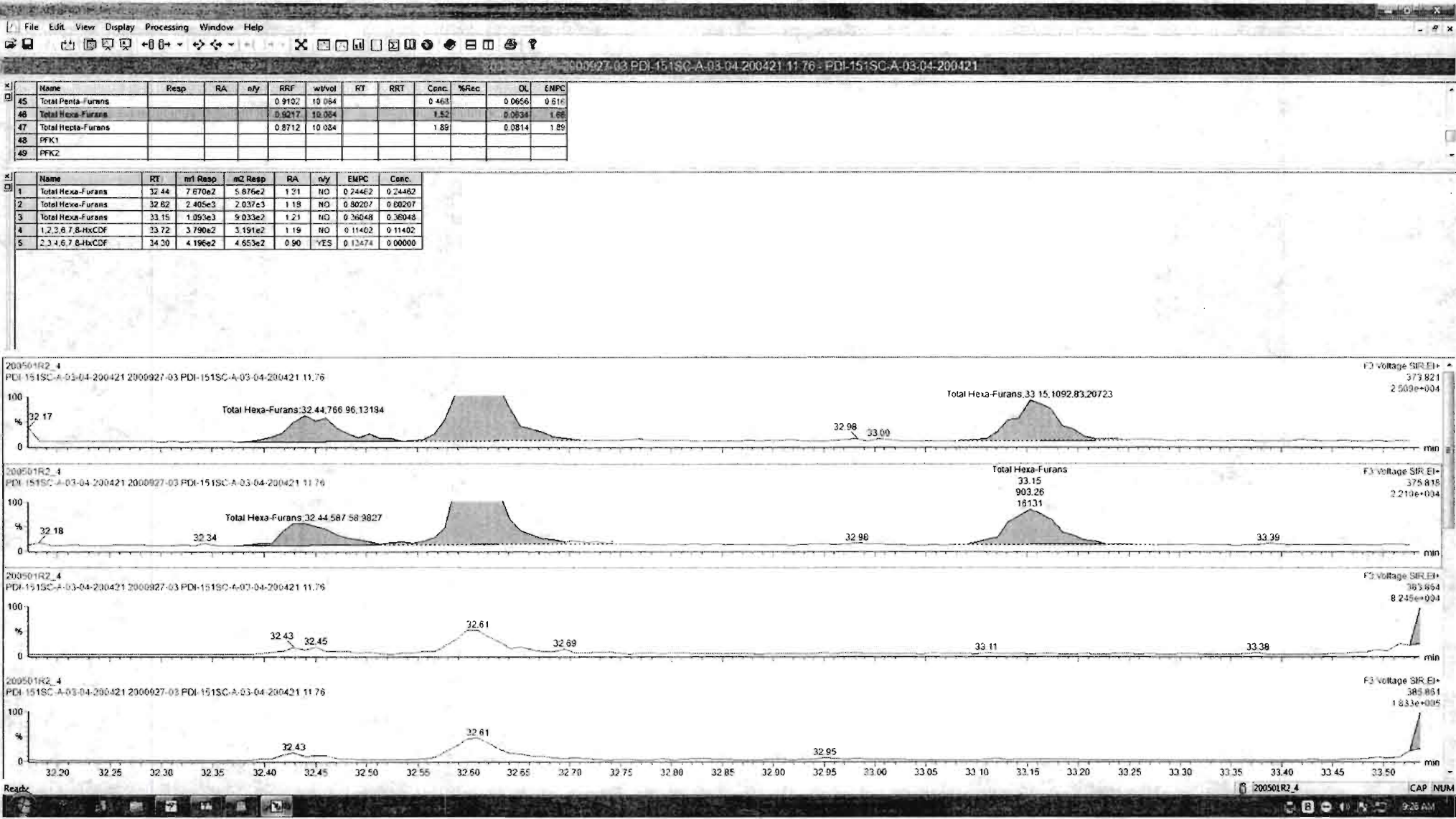


13C-1,2,3,4,7,8-HxCDF



DPE3

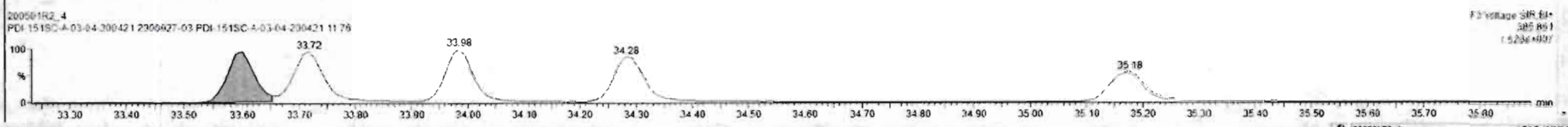
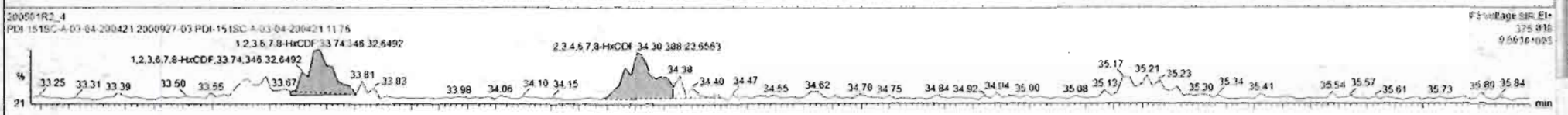
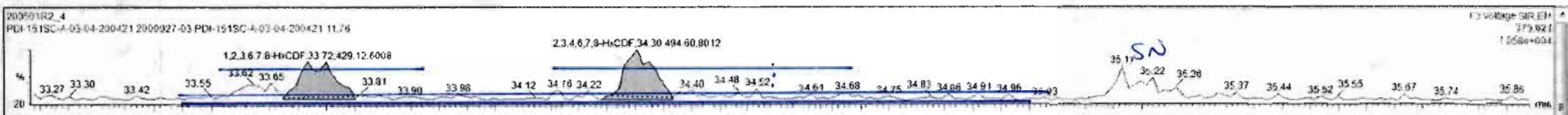




200501R2\_4 2000927-03 PDI-151SC-A-03-04-200421-1176 - PDI-151SC-A-03-04-200421

#	Name	Resp	RA	n1y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9122	10.064			0.468		0.0656	0.615
46	Total Hexa-Furans				0.9217	10.024			1.89		0.0834	1.89
47	Total Hepta-Furans				0.8712	10.034			1.89		0.0814	1.89
48	PFK1											
49	PFK2											

#	Name	RT	m1 Resp	n1 Resp	RA	n1y	EMPC	Conc
1	Total Hexa-Furans	32.44	7.670e2	5.675e2	1.31	NO	0.244E2	0.24462
2	Total Hexa-Furans	32.82	2.405e3	2.037e3	1.18	NO	0.80207	0.60207
3	Total Hexa-Furans	33.15	1.053e3	9.033e2	1.21	NO	0.36048	0.36048
4	1,2,3,6,7,8-HxCDF	33.72	4.291e2	3.463e2	1.24	NO	0.12865	0.12865
5	2,3,4,6,7,8-HxCDF	34.30	4.946e2	3.882e2	1.27	NO	0.15696	0.15696



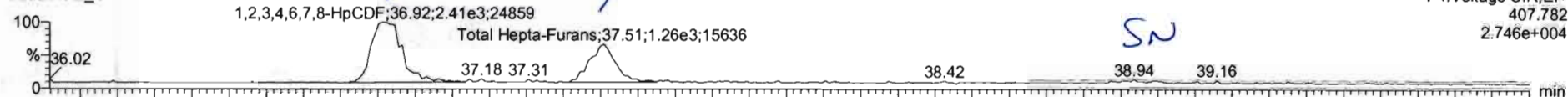
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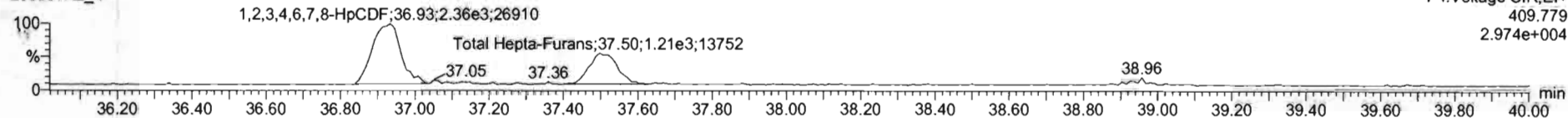
Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421

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

200501R2\_4

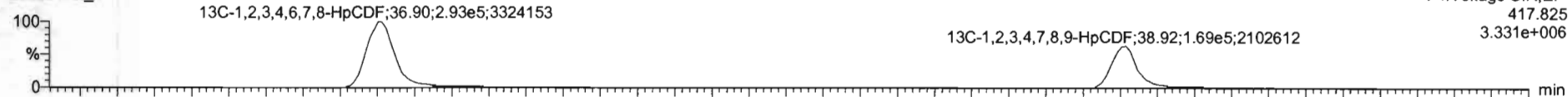


200501R2\_4

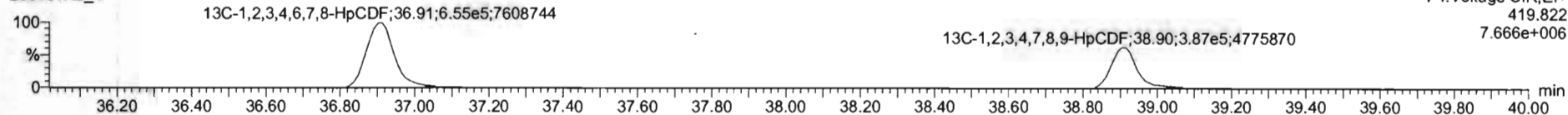


**13C-1,2,3,4,6,7,8-HpCDF**

200501R2\_4

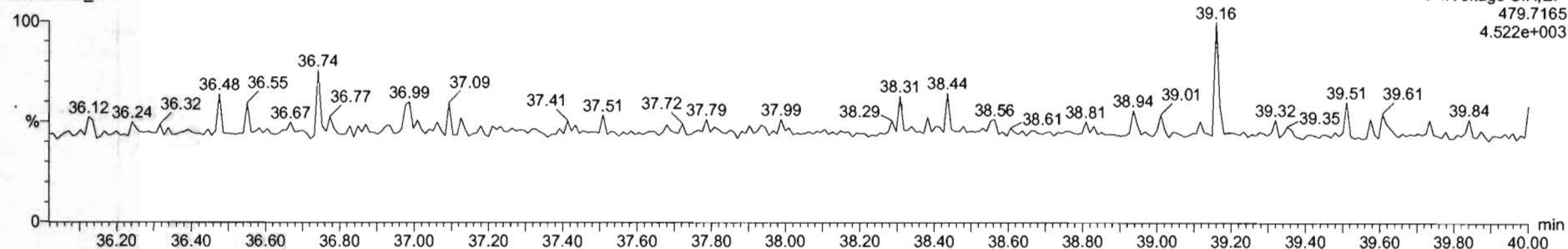


200501R2\_4



**DPE4**

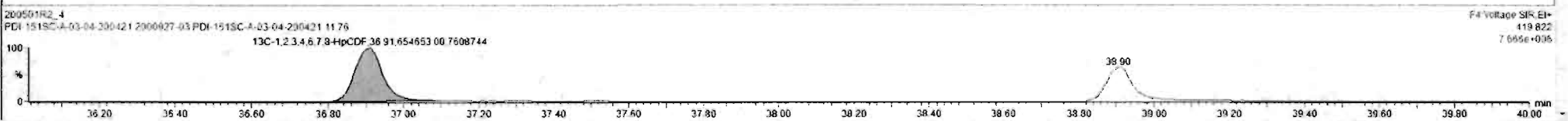
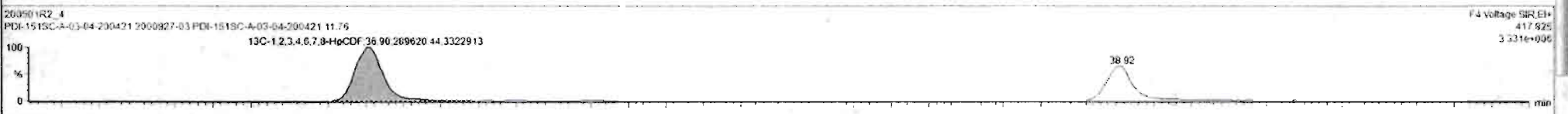
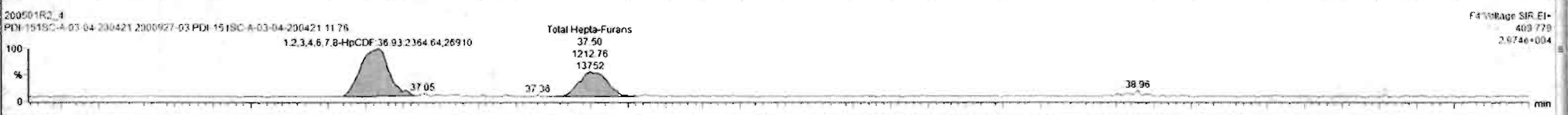
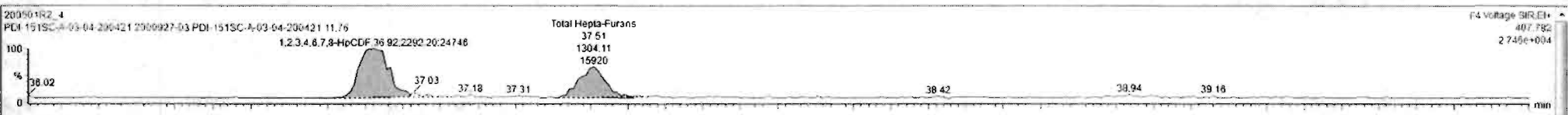
200501R2\_4



200501R2\_4 - 2000927-03 PDI-151SC-A-03-04-200421 11.76 - PDI-151SC-A-03-04-200421

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans			0.9102	10.064			0.462	0.0656	0.516	
46	Total Hexa-Furans			0.9217	10.034			1.69	0.0634	1.69	
47	Total Hepta-Furans			0.8712	10.004			1.89	0.0511	1.89	
48	PFK1										
49	PFK2										

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1.2,3,4,6,7,8-HpCDF	36.82	2.292e3	2.385e3	0.97	NO	1.1227
2	Total Hepta-Furans	37.51	1.204e3	1.213e3	1.68	NO	0.76356

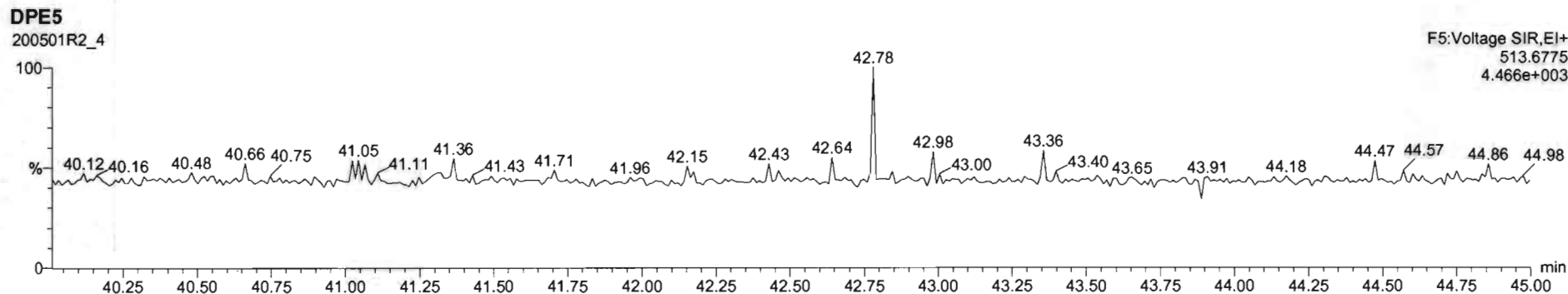
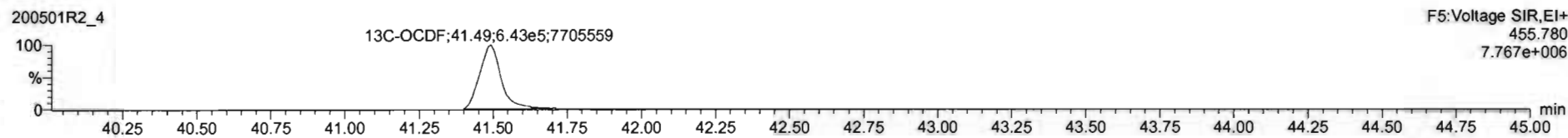
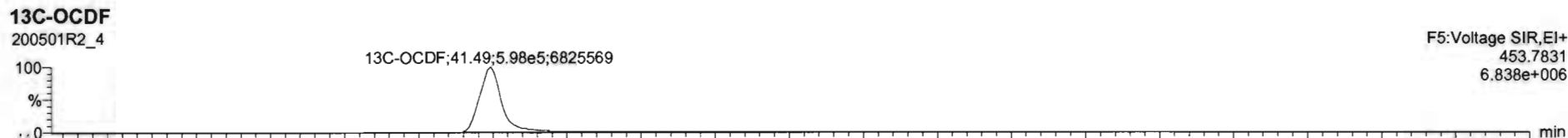
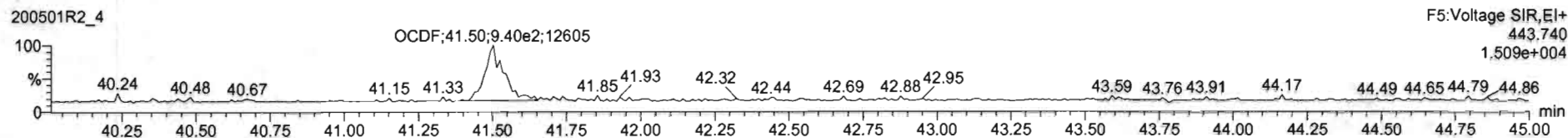
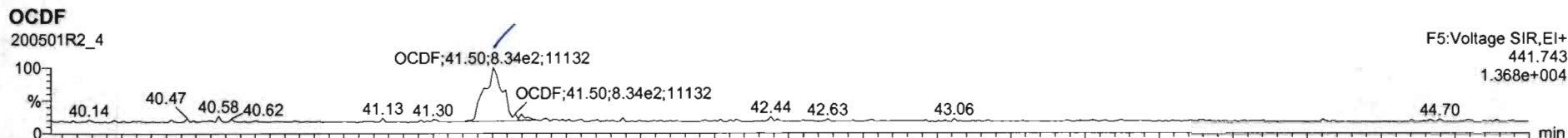




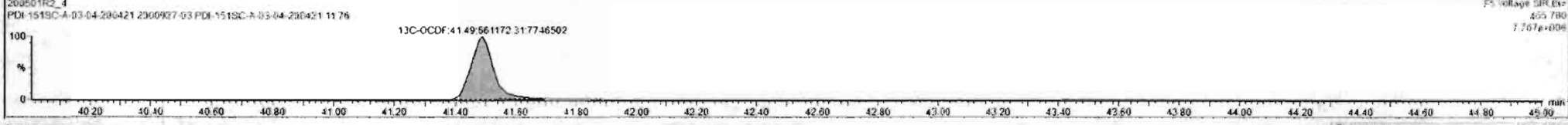
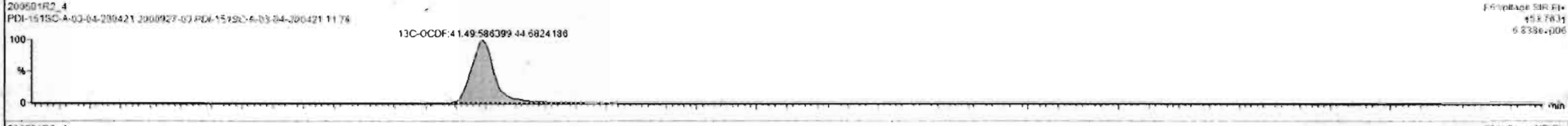
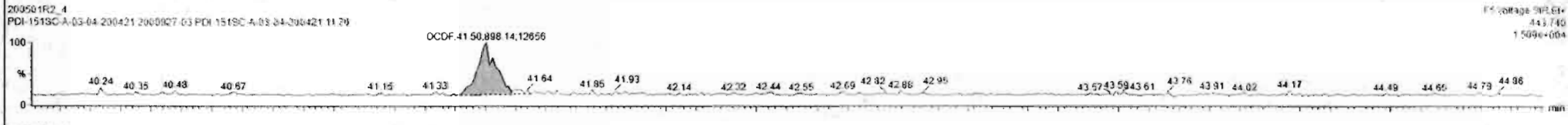
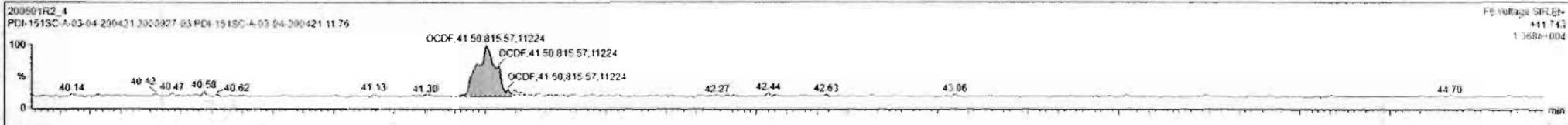
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421



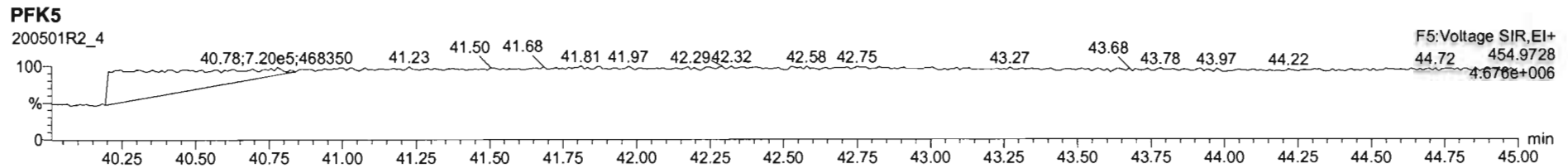
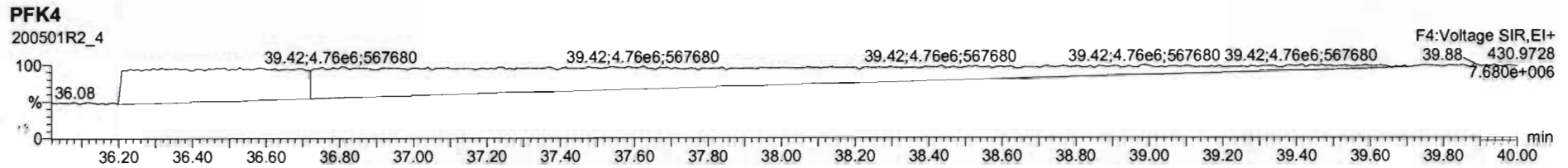
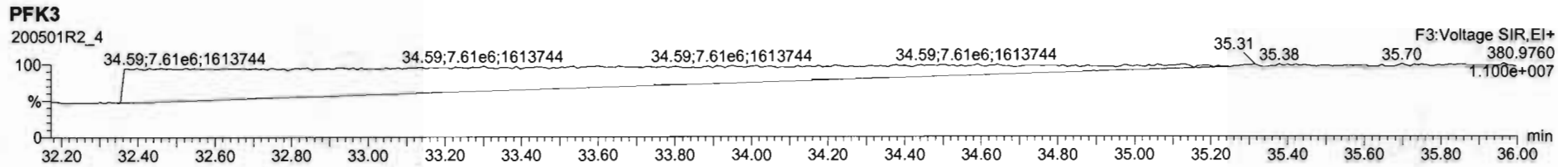
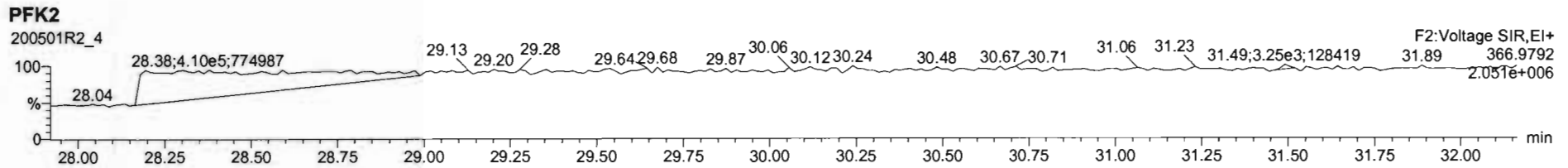
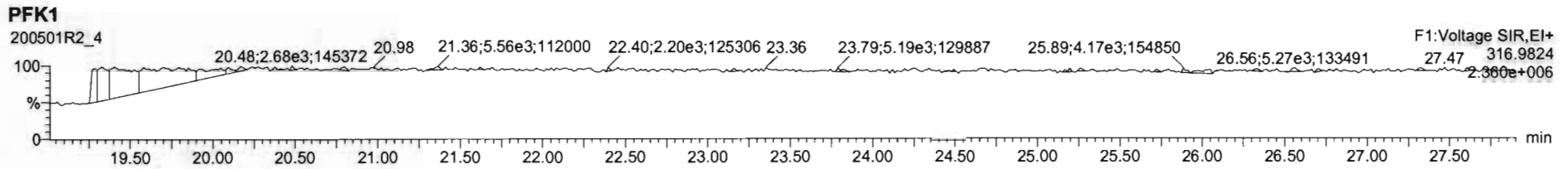
Name	Resp	RA	n/y	RRF	ndVol	RT	RRT	Conc.	%Rec	DL	ENPC
2	1,2,3,7,8-PeCDD			NO	0.9425	10.084				0.0505	
3	1,2,3,4,7,8-HxCDD			NO	1.0541	10.084				0.0745	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.084				0.0761	
5	1,2,3,7,8,9-HxCDD			NO	0.9149	10.084				0.0654	
6	1,2,3,4,6,7,8-HpCDD	2.36e3	1.05	NO	0.8979	10.084	38.34	1.000	0.698	0.161	0.898
7	OCDD	1.96e4	0.89	NO	0.9335	10.084	41.33	1.001	7.27	0.0973	7.27
8	2,3,7,8-TCDF			NO	0.7871	10.084				0.0333	
9	1,2,3,7,8-PeCDF			NO	0.9102	10.084				0.0858	
10	2,3,4,7,8-PeCDF			NO	0.9864	10.084				0.0616	
11	1,2,3,4,7,8-HxCDF			NO	0.8782	10.084				0.0568	
12	1,2,3,6,7,8-HxCDF	8.96e2	1.19	NO	0.8740	10.084	33.72	1.000	0.114	0.0565	0.114
13	2,3,4,6,7,8-HxCDF	8.05e2	0.90	YES	0.9217	10.084	34.30	1.001	0.157	0.0600	0.135
14	1,2,3,7,8,9-HxCDF			NO	0.8642	10.084				0.0964	
15	1,2,3,4,6,7,8-HpCDF	4.77e3	1.02	NO	0.8712	10.084	36.92	1.001	1.15	0.0674	1.15
16	1,2,3,4,7,8,9-HpCDF			NO	1.0116	10.084				0.0505	
17	OCDF	1.71e3	0.91	NO	0.9521	10.084	41.50	1.000	8.679	0.0951	8.679
18	13C-2,3,7,8-TCDD	1.42e8	0.79	NO	1.1595	10.084	25.99	1.027	175.883	0.179	



Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_4, Date: 01-May-2020, Time: 17:41:53, ID: 2000927-03 PDI-151SC-A-03-04-200421 11.76, Description: PDI-151SC-A-03-04-200421



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-5.qld

Last Altered: Saturday, May 02, 2020 9:40:49 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 9:42:50 AM Pacific Daylight Time

GRB 05/02/2020

CT 05/05/2020

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

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

Name: 200501R2\_5, Date: 01-May-2020, Time: 18:28:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	9.998	26.021		1.001				0.0782	
2	2 1,2,3,7,8-PeCDD			NO	0.942	9.998	31.116		1.001				0.0632	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	9.998	34.473		1.000				0.0887	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	9.998	34.569		1.000				0.0870	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	9.998	34.846		1.000				0.0952	
6	6 1,2,3,4,6,7,8-HpCDD	2.67e3	1.08	NO	0.898	9.998	38.341	38.35	1.000	1.001	0.77417		0.128	0.774
7	7 OCDD	2.41e4	0.88	NO	0.933	9.998	41.311	41.33	1.000	1.001	8.7604		0.142	8.76
8	8 2,3,7,8-TCDF			NO	0.787	9.998	25.072		1.001				0.0468	
9	9 1,2,3,7,8-PeCDF			NO	0.910	9.998	29.803		1.001				0.0443	
10	10 2,3,4,7,8-PeCDF			NO	0.966	9.998	30.805		1.001				0.0415	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	9.998	33.611		1.000				0.0636	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	9.998	33.738		1.000				0.0607	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	9.998	34.326		1.001				0.0617	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	9.998	35.176		1.000				0.0982	
15	15 1,2,3,4,6,7,8-HpCDF	1.62e3	1.05	NO	0.871	9.998	36.950	36.93	1.001	1.001	0.38763		0.0563	0.388
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	9.998	38.915		1.000				0.0748	
17	17 OCDF	8.94e2	0.95	NO	0.802	9.998	41.492	41.52	1.000	1.001	0.33529		0.120	0.335
18	18 13C-2,3,7,8-TCDD	9.27e5	0.79	NO	1.16	9.998	25.984	25.99	1.026	1.027	116.85	58.4	0.179	
19	19 13C-1,2,3,7,8-PeCDD	9.14e5	0.65	NO	0.847	9.998	31.068	31.09	1.227	1.228	157.64	78.8	0.252	
20	20 13C-1,2,3,4,7,8-HxCDD	7.75e5	1.28	NO	0.750	9.998	34.473	34.46	1.014	1.014	154.46	77.2	0.318	
21	21 13C-1,2,3,6,7,8-HxCDD	1.00e6	1.28	NO	0.963	9.998	34.585	34.57	1.017	1.017	155.38	77.7	0.248	
22	22 13C-1,2,3,7,8,9-HxCDD	9.65e5	1.24	NO	0.838	9.998	34.854	34.84	1.025	1.025	172.07	86.0	0.285	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.68e5	1.07	NO	0.641	9.998	38.342	38.33	1.128	1.128	178.95	89.5	0.400	
24	24 13C-OCDD	1.18e6	0.90	NO	0.586	9.998	41.333	41.31	1.216	1.215	300.18	75.0	0.508	
25	25 13C-2,3,7,8-TCDF	1.20e6	0.77	NO	1.03	9.998	25.045	25.05	0.989	0.989	107.29	53.6	0.298	
26	26 13C-1,2,3,7,8-PeCDF	1.33e6	1.58	NO	0.845	9.998	29.759	29.78	1.176	1.176	146.02	73.0	0.376	
27	27 13C-2,3,4,7,8-PeCDF	1.26e6	1.58	NO	0.814	9.998	30.749	30.77	1.215	1.216	143.87	71.9	0.391	
28	28 13C-1,2,3,4,7,8-HxCDF	1.09e6	0.51	NO	1.00	9.998	33.613	33.61	0.989	0.989	161.99	81.0	0.528	
29	29 13C-1,2,3,6,7,8-HxCDF	1.26e6	0.52	NO	1.14	9.998	33.736	33.73	0.992	0.992	165.99	83.0	0.466	
30	30 13C-2,3,4,6,7,8-HxCDF	1.19e6	0.51	NO	1.02	9.998	34.303	34.29	1.009	1.009	173.45	86.7	0.519	
31	31 13C-1,2,3,7,8,9-HxCDF	9.39e5	0.52	NO	0.845	9.998	35.194	35.18	1.035	1.035	166.06	83.0	0.628	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-5.qld

Last Altered: Saturday, May 02, 2020 9:40:49 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 9:42:50 AM Pacific Daylight Time

Sample ID: 200501R2\_5, Name: 200501R2\_5, Date: 01-May-2020, Time: 18:28:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.58e5	0.43	NO	0.771	9.998	36.924	36.91	1.086	1.086	185.63	92.8	0.430	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.77e5	0.41	NO	0.482	9.998	38.933	38.92	1.145	1.145	178.77	89.4	0.688	
34	34 13C-OCDF	1.33e6	0.88	NO	0.669	9.998	41.503	41.49	1.221	1.221	297.09	74.3	0.344	
35	35 37Cl-2,3,7,8-TCDD	4.52e5			1.10	9.998	26.015	26.02	1.028	1.028	60.166	75.2	0.125	
36	36 13C-1,2,3,4-TCDD	1.37e6	0.81	NO	1.00	9.998	25.350	25.32	1.000	1.000	200.05	100	0.208	
37	37 13C-1,2,3,4-TCDF	2.16e6	0.79	NO	1.00	9.998	23.560	23.55	1.000	1.000	200.05	100	0.308	
38	38 13C-1,2,3,4,6,9-HxCDF	1.34e6	0.51	NO	1.00	9.998	34.000	33.99	1.000	1.000	200.05	100	0.530	
39	39 Total Tetra-Dioxins				0.947	9.998	24.620		0.000				0.0492	
40	40 Total Penta-Dioxins				0.942	9.998	29.960		0.000				0.0270	
41	41 Total Hexa-Dioxins				0.915	9.998	33.635		0.000		0.37763		0.0945	0.378
42	42 Total Hepta-Dioxins				0.898	9.998	37.640		0.000		2.0978		0.128	2.10
43	43 Total Tetra-Furans				0.787	9.998	23.610		0.000				0.0217	
44	44 1st Func. Penta-Furans				0.910	9.998	27.090		0.000		0.11860		0.0190	0.119
45	45 Total Penta-Furans				0.910	9.998	29.275		0.000				0.0227	
46	46 Total Hexa-Furans				0.922	9.998	33.555		0.000		0.19937		0.0666	0.333
47	47 Total Hepta-Furans				0.871	9.998	37.835		0.000		0.67206		0.0678	0.672

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-5.qld

Last Altered: Saturday, May 02, 2020 9:40:49 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 9:42:50 AM Pacific Daylight Time

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

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

Name: 200501R2\_5, Date: 01-May-2020, Time: 18:28:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.791e4	1.332e4	8.431e2	7.343e2	1.15	NO	1.577e3	0.37763	0.37763	0.0945

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.33	3.021e4	2.696e4	2.358e3	2.207e3	1.07	NO	4.564e3	1.3237	1.3237	0.128
2	1,2,3,4,6,7,8-HpCDD	38.35	1.733e4	1.437e4	1.386e3	1.284e3	1.08	NO	2.670e3	0.77417	0.77417	0.128

**Tetra-Furans**

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

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.16	7.808e3	3.896e3	4.347e2	2.645e2	1.64	NO	6.991e2	0.11860	0.11860	0.0190

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-5.qld

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Printed: Saturday, May 02, 2020 9:42:50 AM Pacific Daylight Time

Name: 200501R2\_5, Date: 04-May-2020, Time: 16:23:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	4.966e3	3.552e3	2.372e2	2.050e2	1.16	NO	4.422e2	0.085738	0.085738	0.0666
2	Total Hexa-Furans	32.63	7.718e3	6.982e3	3.187e2	2.674e2	1.19	NO	5.861e2	0.11364	0.11364	0.0666
3	Total Hexa-Furans	33.15	5.530e3	5.824e3	3.818e2	3.703e2	1.03	YES	0.000e0	0.00000	0.13371	0.0666

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.93	1.199e4	1.064e4	8.280e2	7.894e2	1.05	NO	1.617e3	0.38763	0.38763	0.0563
2	Total Hepta-Furans	37.50	6.100e3	8.217e3	4.883e2	4.625e2	1.06	NO	9.508e2	0.28443	0.28443	0.0678

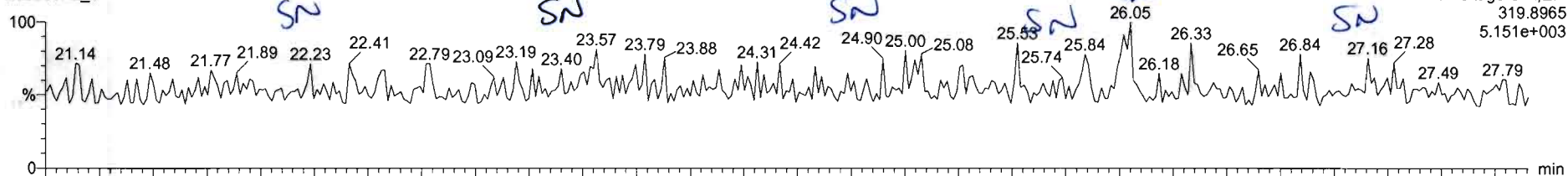
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Name: 200501R2\_5, Date: 01-May-2020, Time: 18:28:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421

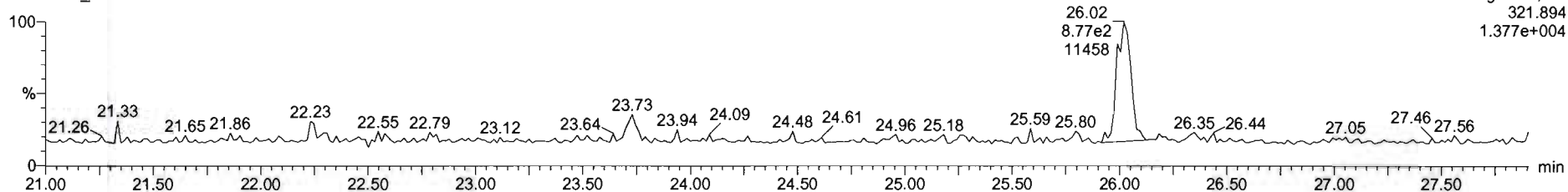
2,3,7,8-TCDD

200501R2\_5



F1: Voltage SIR, EI+  
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5.151e+003

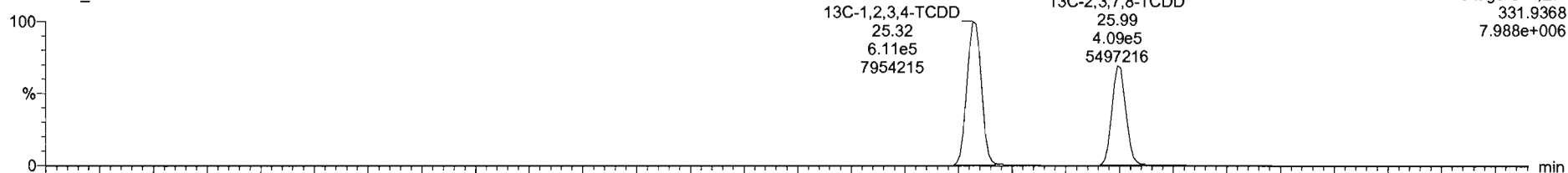
200501R2\_5



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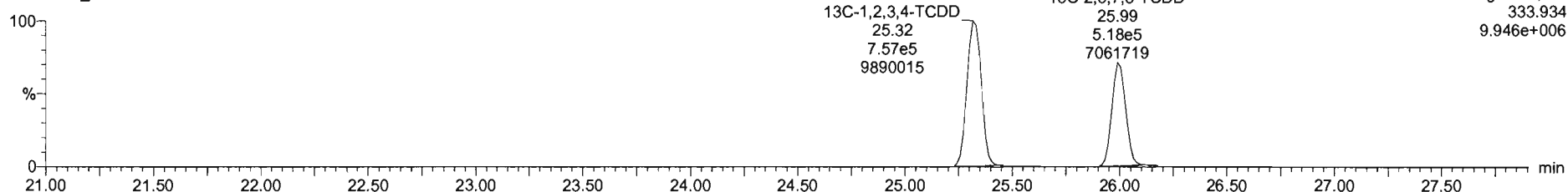
13C-2,3,7,8-TCDD

200501R2\_5



F1: Voltage SIR, EI+  
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200501R2\_5



F1: Voltage SIR, EI+  
333.934  
9.946e+006



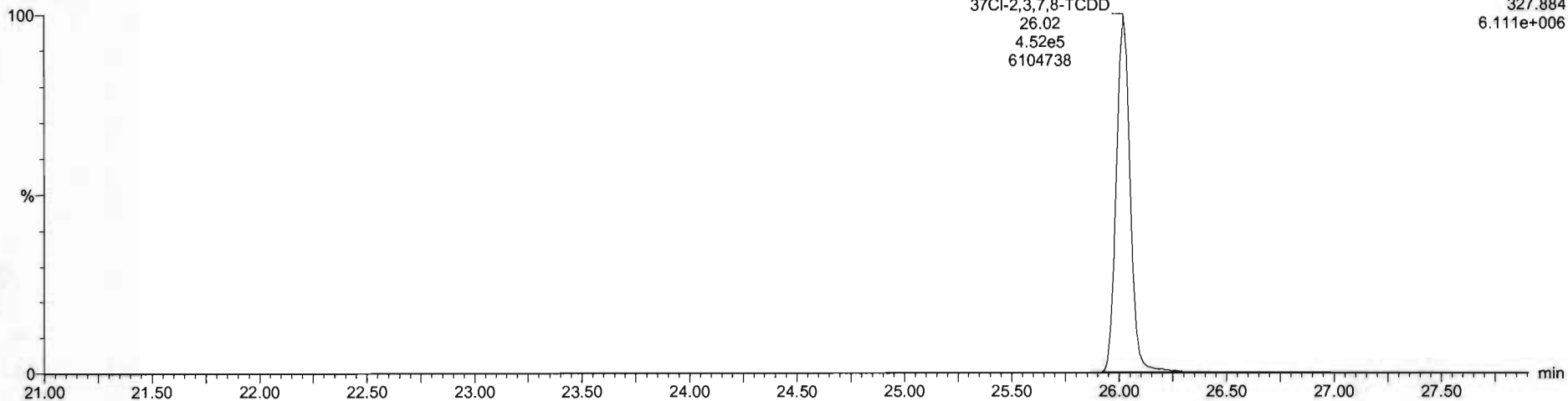
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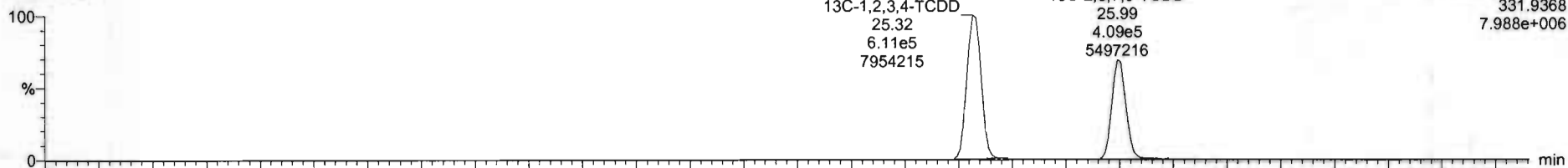
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200501R2\_5

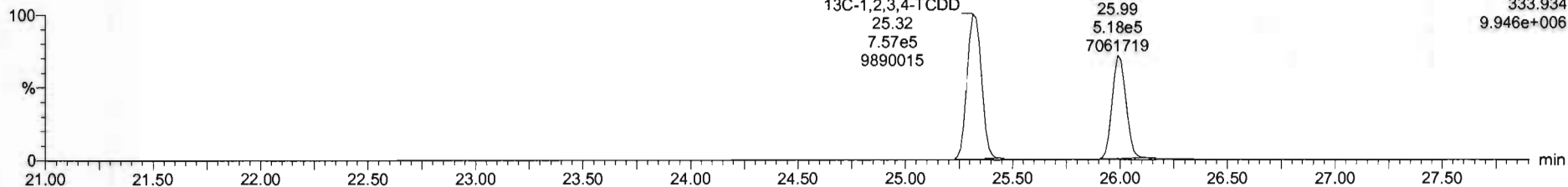


**13C-1,2,3,4-TCDD**

200501R2\_5



200501R2\_5



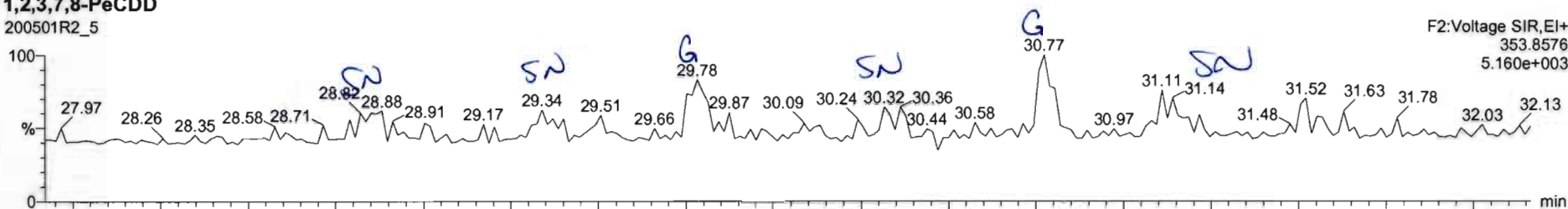
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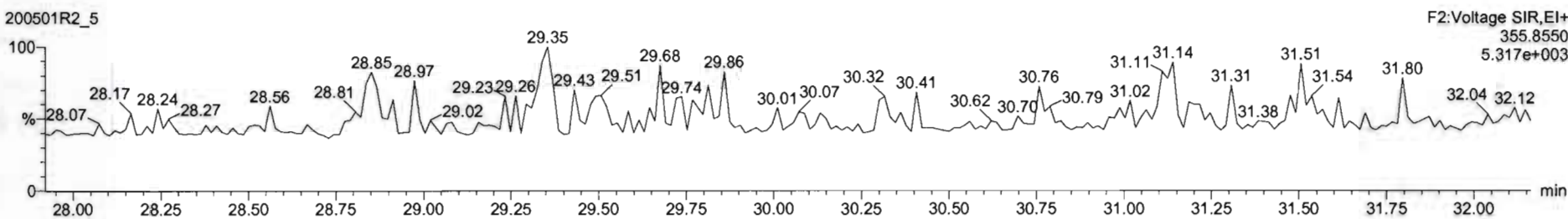
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1,2,3,7,8-PeCDD

200501R2\_5

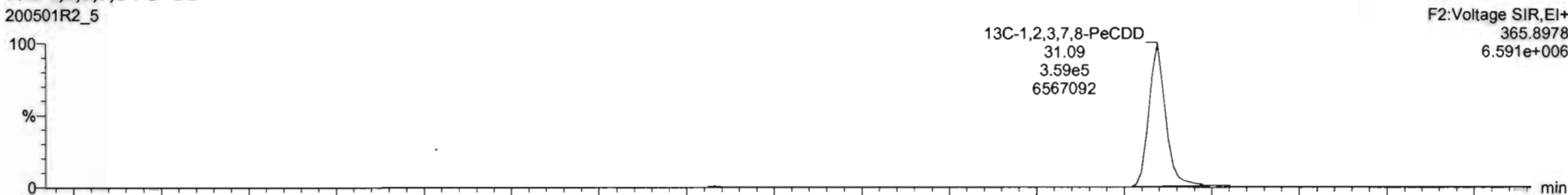


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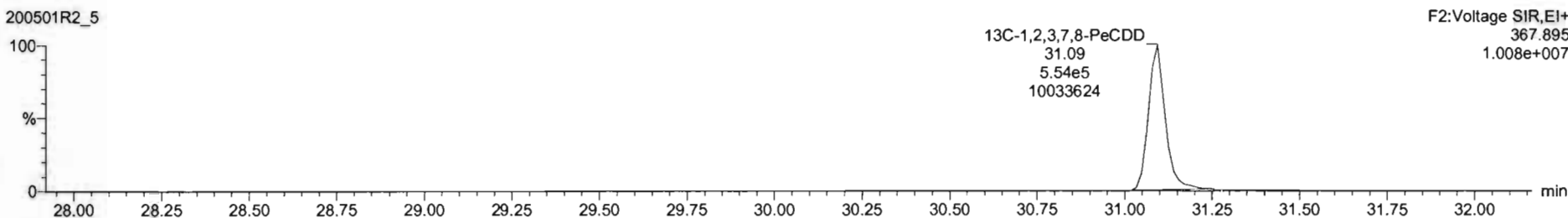


13C-1,2,3,7,8-PeCDD

200501R2\_5



200501R2\_5



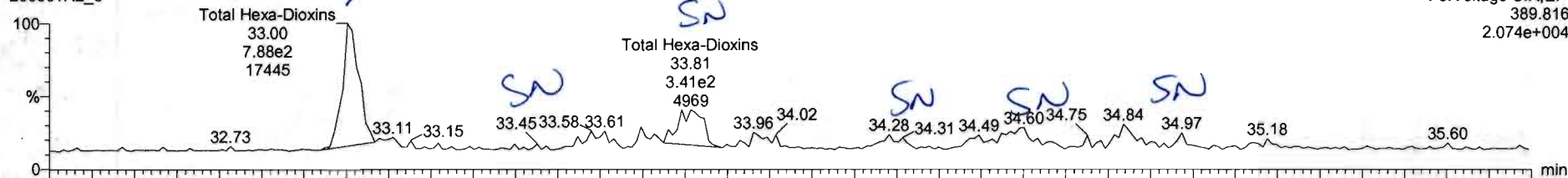
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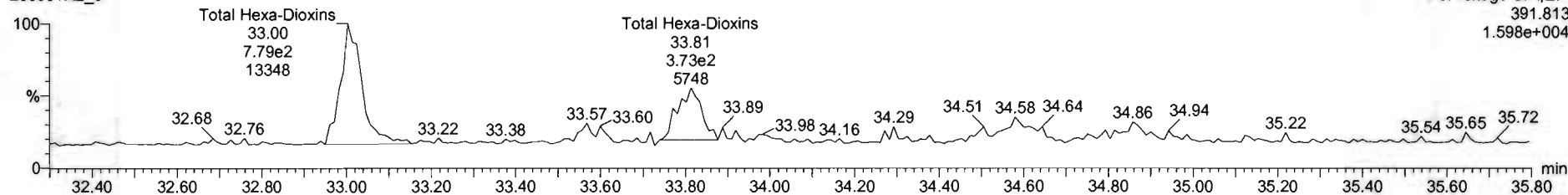
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1,2,3,4,7,8-HxCDD

200501R2\_5

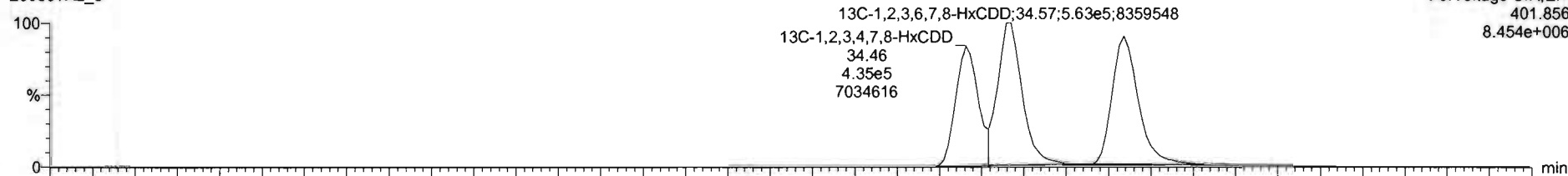


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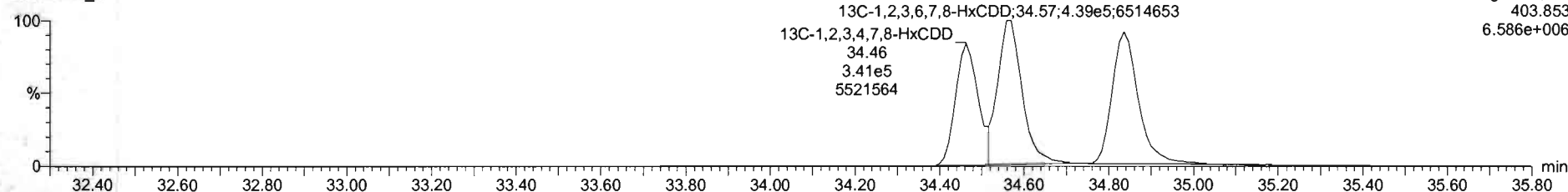


13C-1,2,3,4,7,8-HxCDD

200501R2\_5

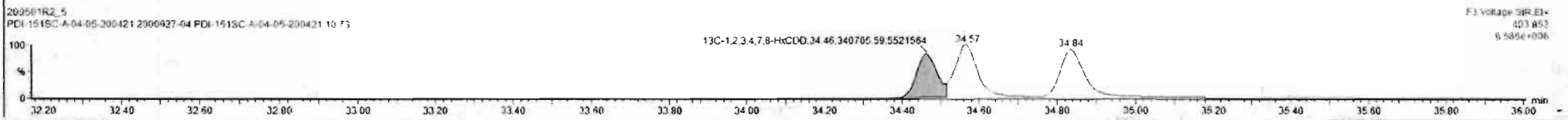
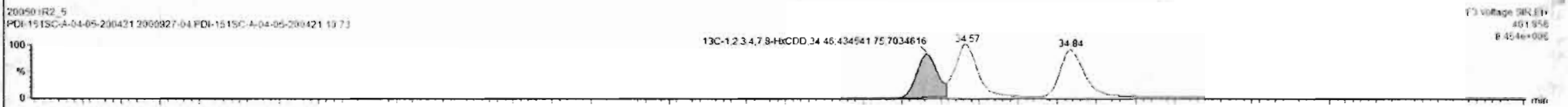
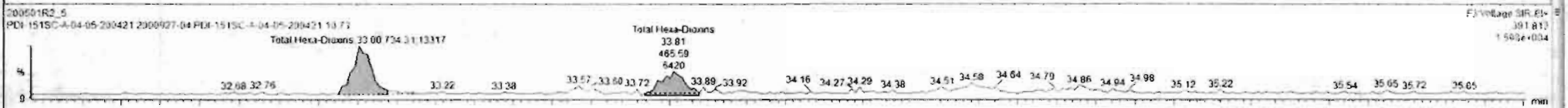
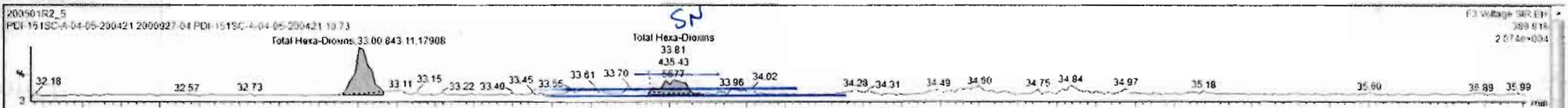


200501R2\_5



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	9.996			0.378	0.0045	0.586	
42 Total Hepta-Dioxins				0.8979	9.998			2.07	0.130	2.07	
43 Total Tetra-Furans				0.7571	9.556				0.0217		
44 1st Func. Penta-Furans				0.9102	9.998			0.000	0.00644	0.0535	
45 Total Penta-Furans				0.9102	9.996				0.0227		

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.00	8.431e2	7.343e2	1.15	NO	0.37763	0.37763
2 Total Hexa-Dioxins	33.81	4.254e2	4.656e2	0.94	YES	0.16521	0.00000



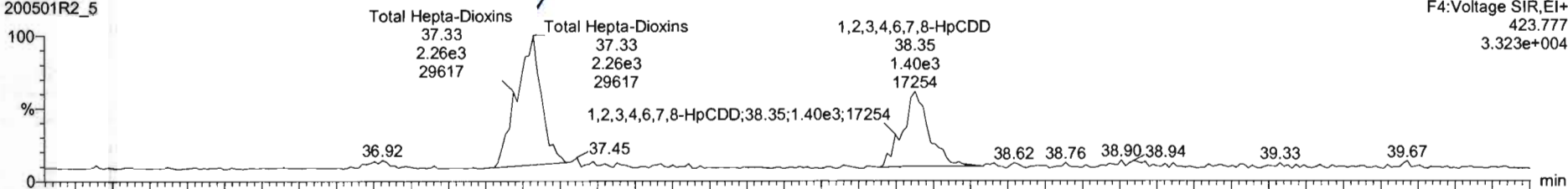
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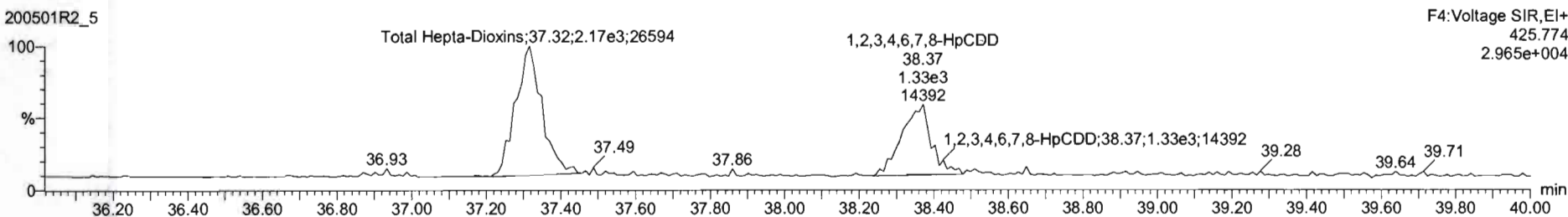
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1,2,3,4,6,7,8-HpCDD

200501R2\_5

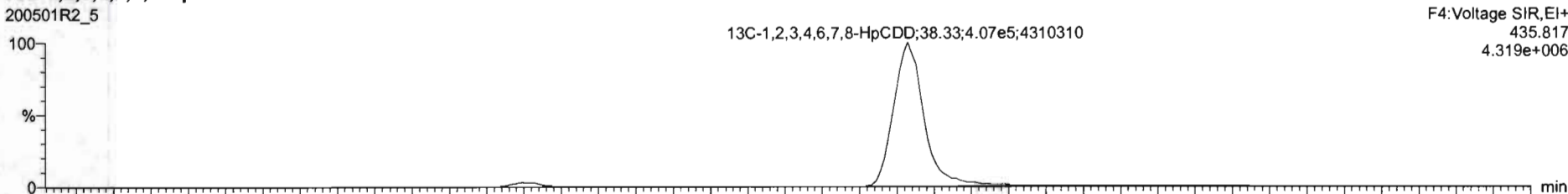


200501R2\_5

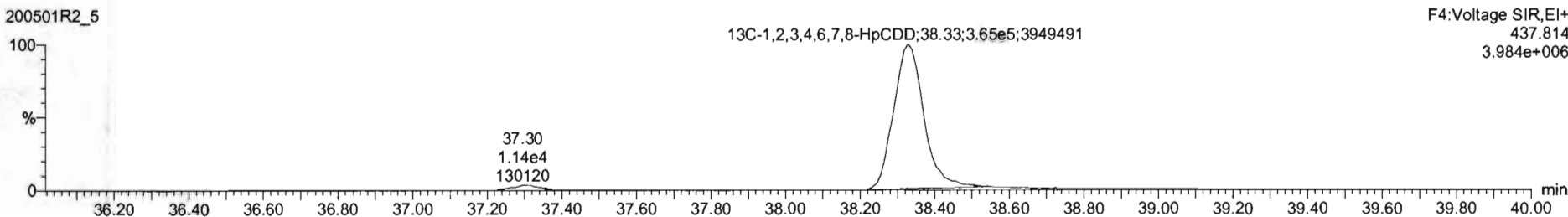


13C-1,2,3,4,6,7,8-HpCDD

200501R2\_5

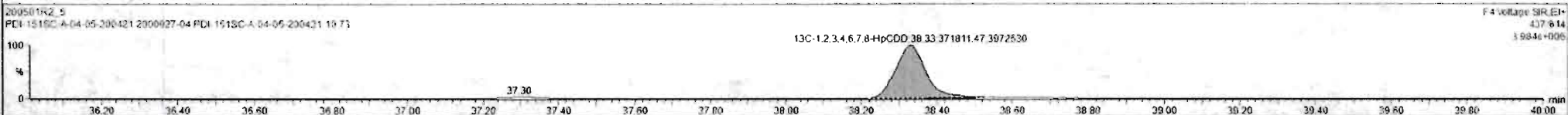
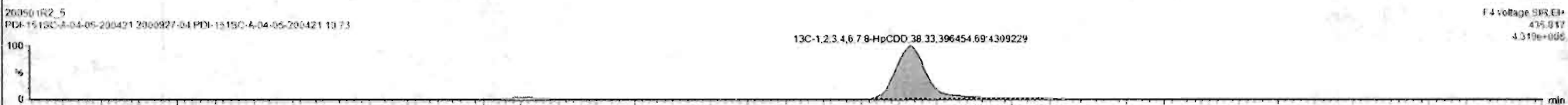
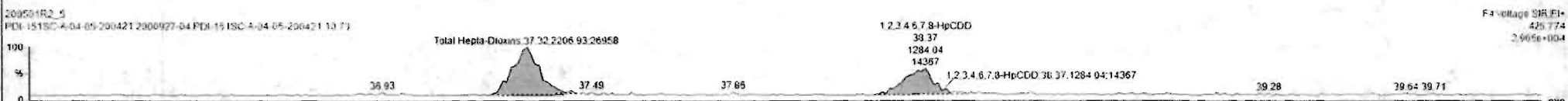


200501R2\_5



Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	9.956			0.378	0.0945	0.378	
42 Total Hepta-Dioxins				0.8979	8.898			2.10	0.128	2.10	
43 Total Tetra-Furans				0.7671	9.598				0.0217		
44 1st Func. Penta-Furans				0.9102	9.956			0.000	0.00644	0.0525	
45 Total Penta-Furans				0.9102	9.956				0.0227		

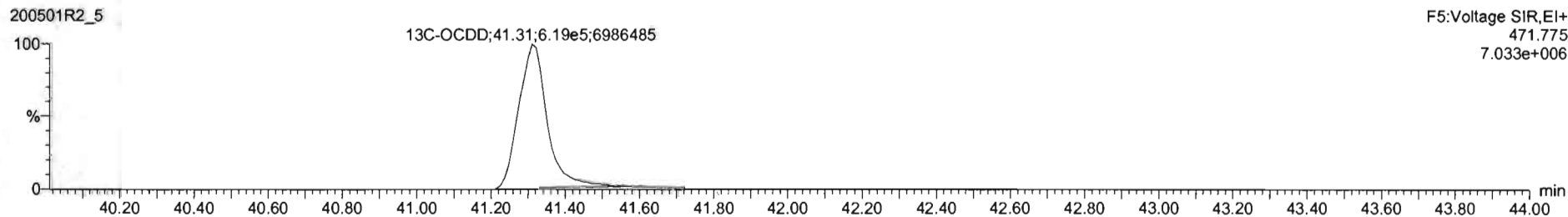
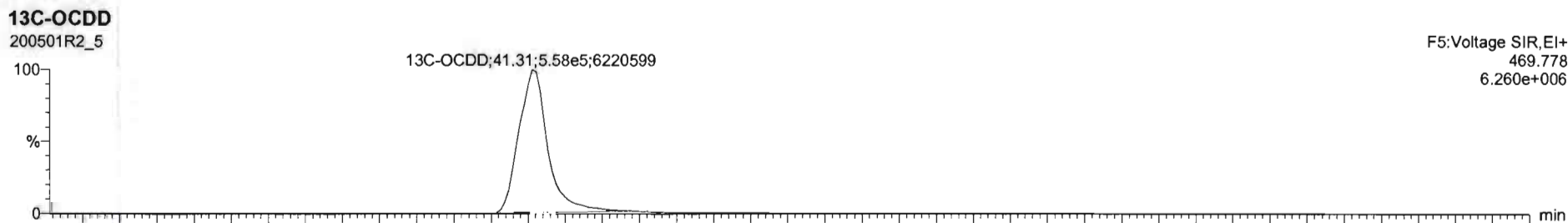
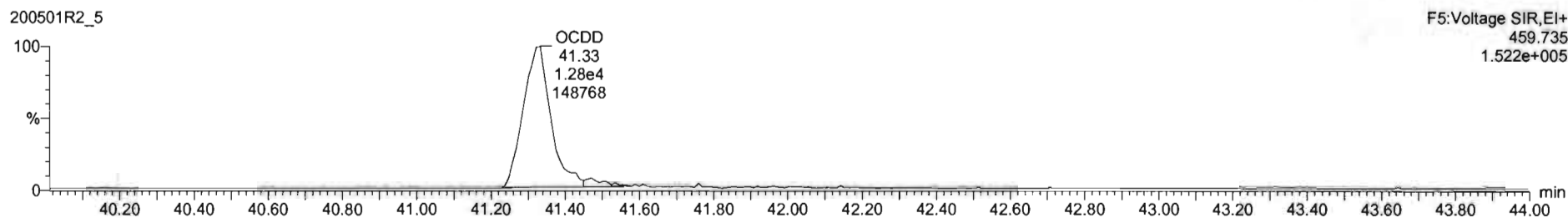
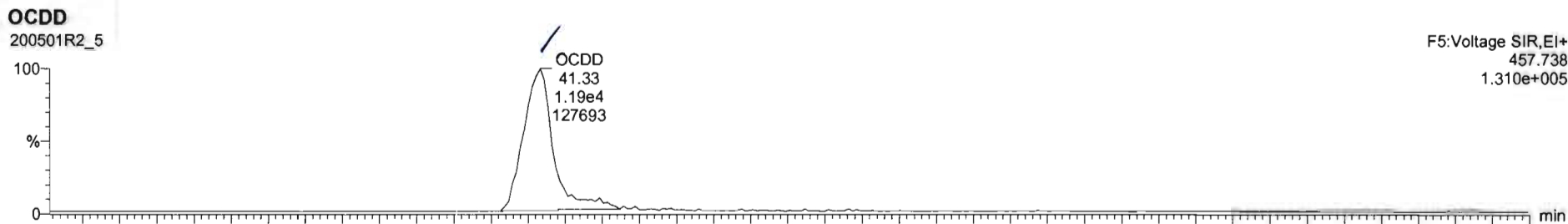
Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
1 Total Hepta-Dioxins	37.33	2.358e3	2.207e3	1.07	NO	1.3227	1.3227
2 1,2,3,4,6,7,8-HpCDD	38.35	1.386e3	1.284e3	1.08	NO	0.77417	0.77417



Dataset: Untitled

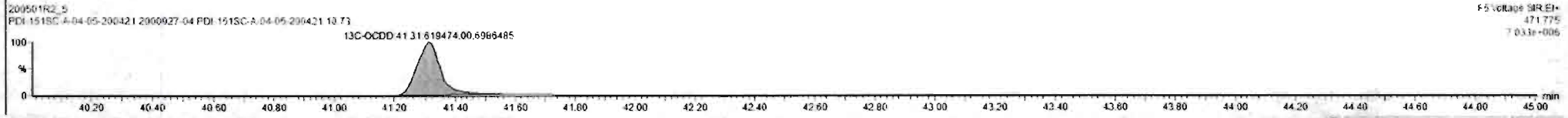
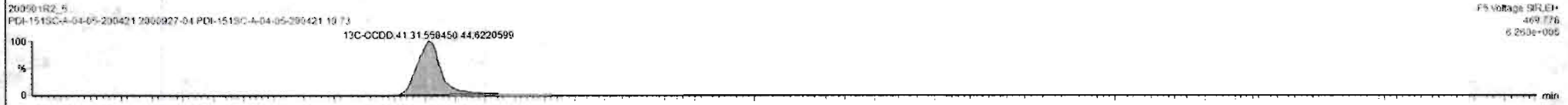
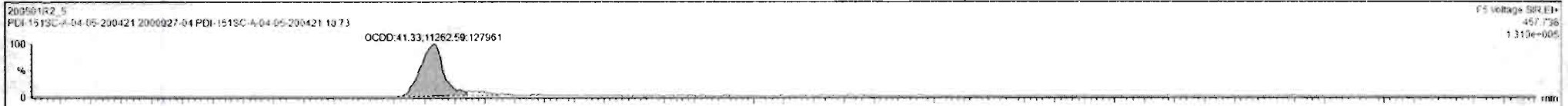
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Name: 200501R2\_5, Date: 01-May-2020, Time: 18:28:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421



Name	Resp	RA	n/y	RRF	wVvol	RT	RRT	Conc.	%Rec	DL	EMPC
OCDD	2.41e4	0.03	NO	0.0335	9.956	41.33	1.001	8.75		0.142	8.76
2,3,7,8-TCDF			NO	0.7871	9.956					0.0468	
1,2,3,7,8-PeCDF			NO	0.9102	9.956					0.0443	
2,3,4,7,8-PeCDF			NO	0.9564	9.956					0.0415	
1,2,3,4,7,8-HxCDF			NO	0.6782	9.956					0.0636	

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





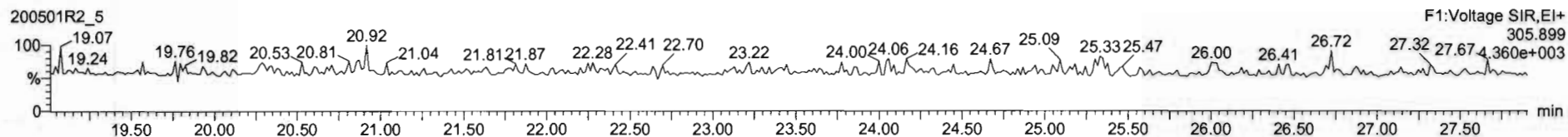
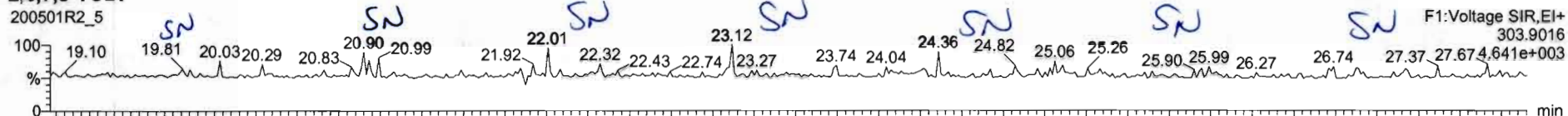
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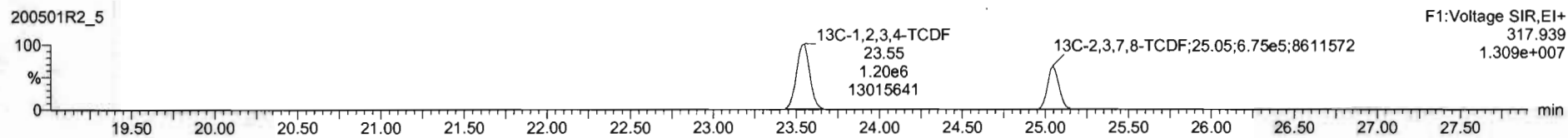
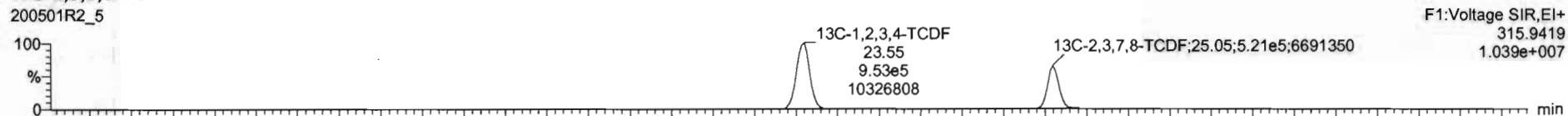
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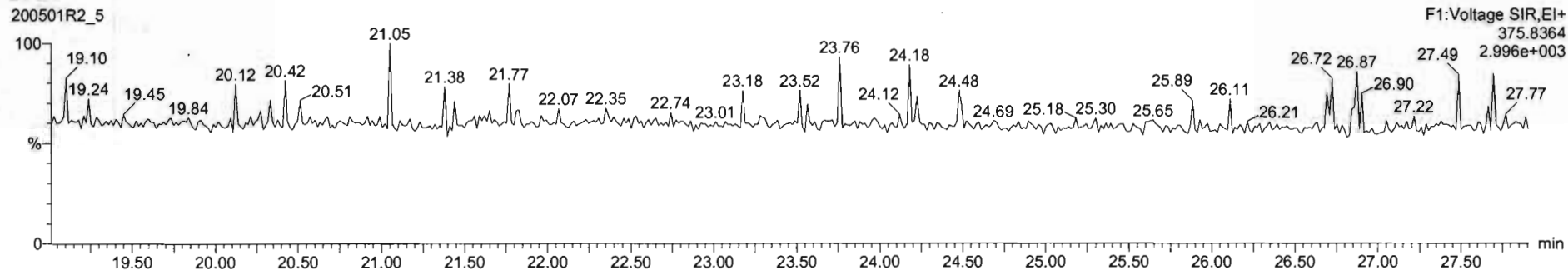
**2,3,7,8-TCDF**



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



**DPE1**



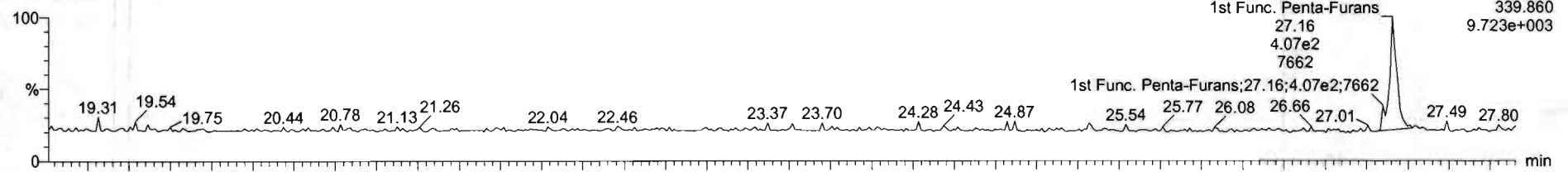
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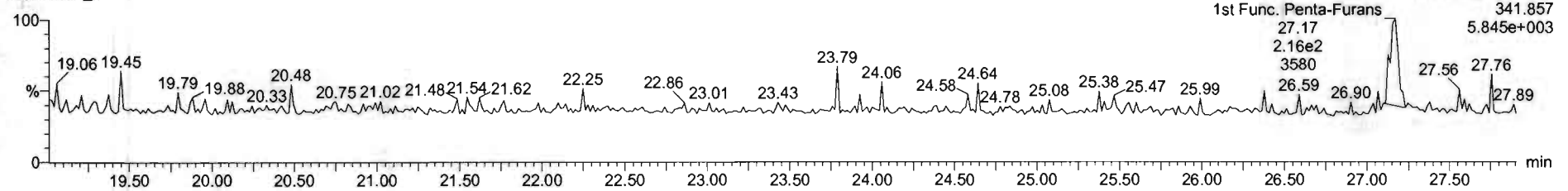
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1st Func. Penta-Furans

200501R2\_5

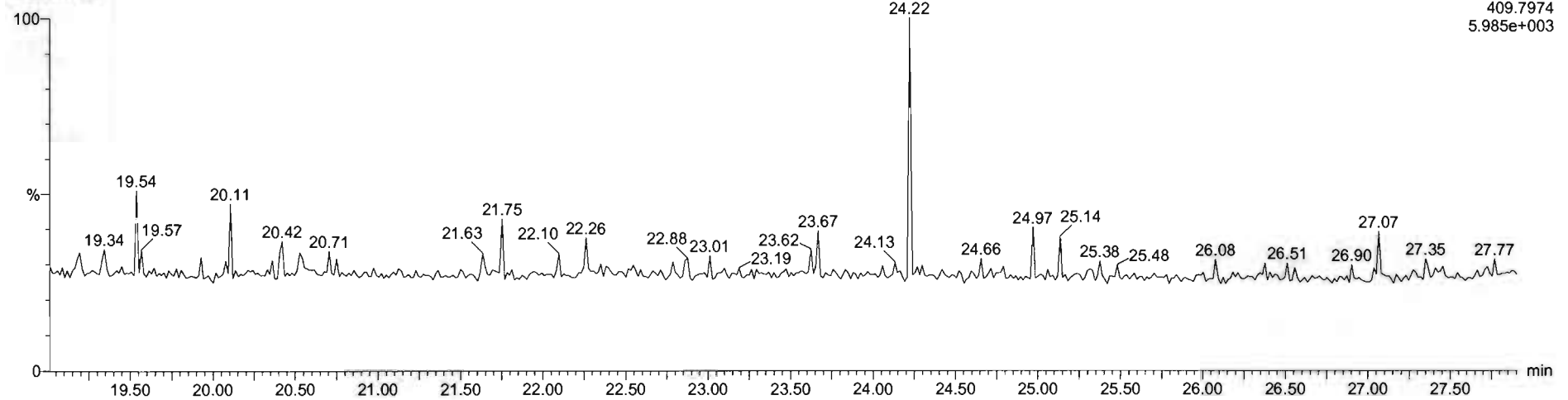


200501R2\_5



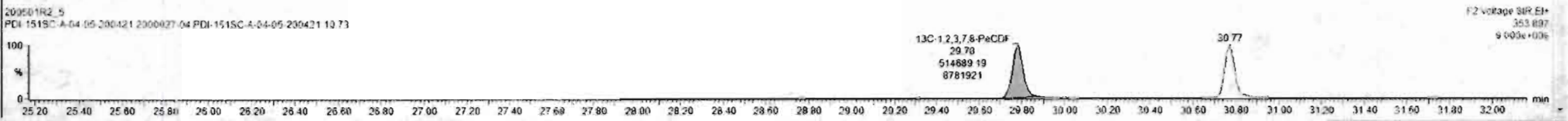
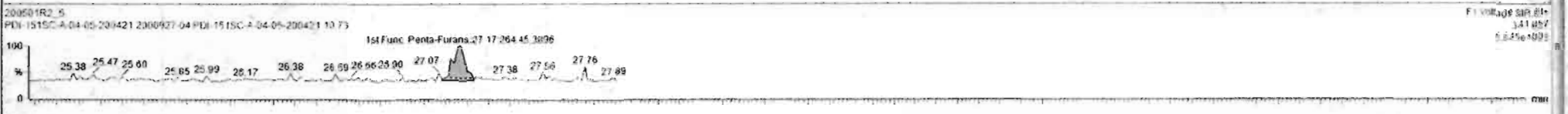
DPE6

200501R2\_5



Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	9.996			0.373		0.0945	9.378
42 Total Hepta-Dioxins				0.8979	9.998			2.10		0.129	2.10
43 Total Tetra-Furans				0.7871	9.998			0.0217			
44 1st Func. Penta-Furans				0.9102	9.996			0.119		0.0190	0.119
45 Total Penta-Furans				0.9102	9.996						

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1st Func. Penta-Furans	27.6	4.34e2	2.645e2	1.64	NO	0.11660	0.11660



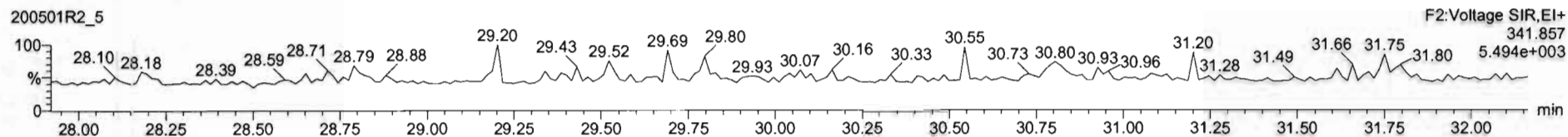
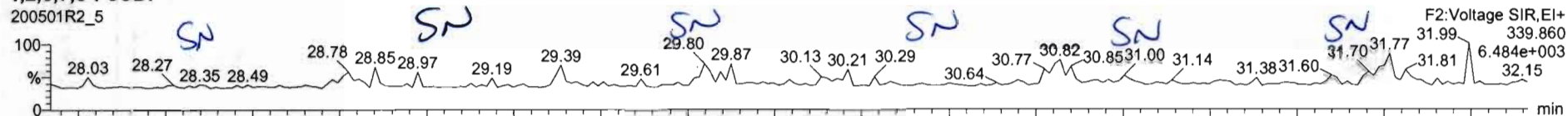
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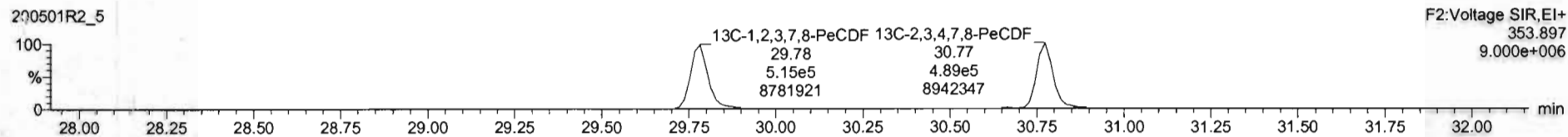
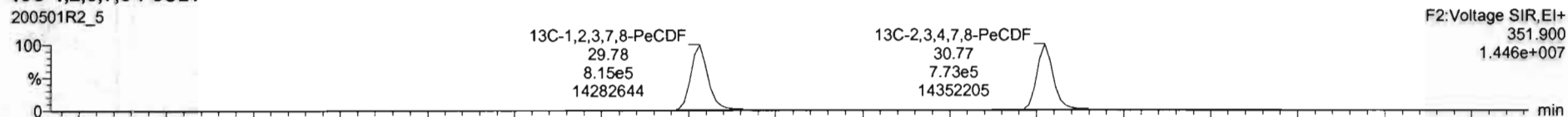
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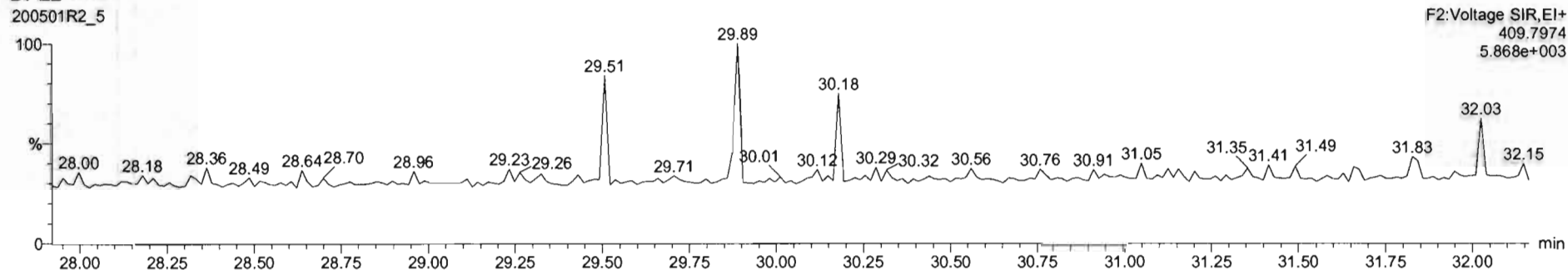
1,2,3,7,8-PeCDF



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



DPE2

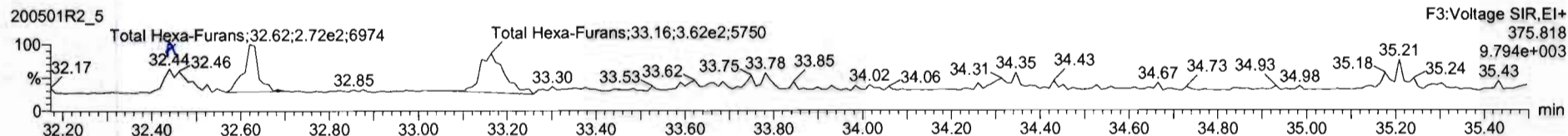
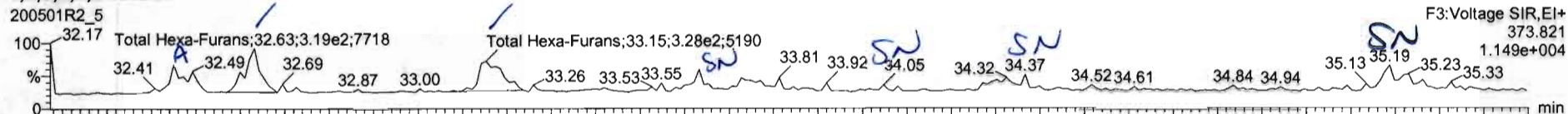


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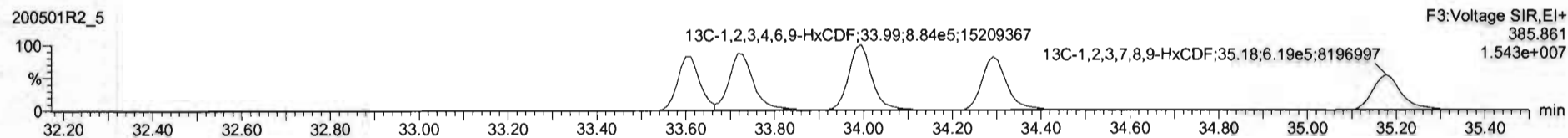
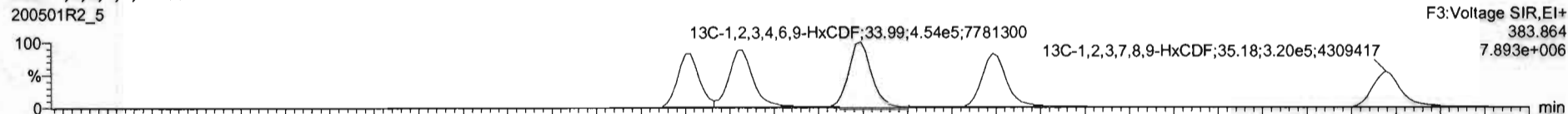
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_5, Date: 01-May-2020, Time: 18:28:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421

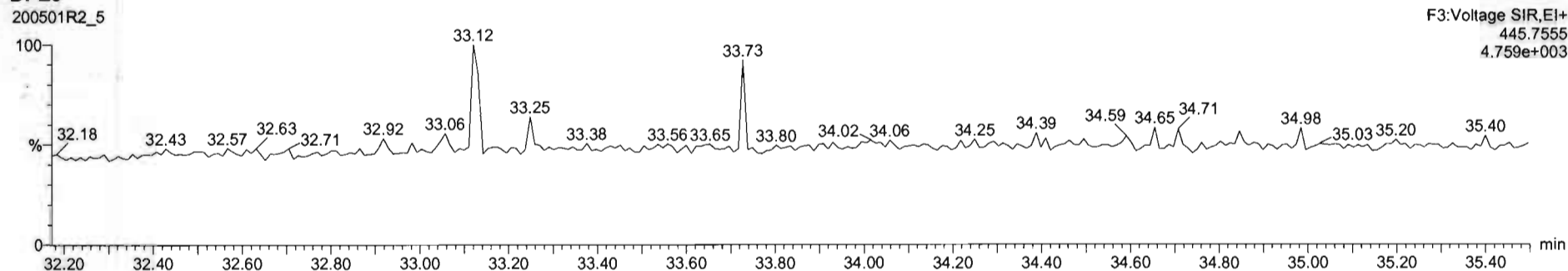
**1,2,3,4,7,8-HxCDF**



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

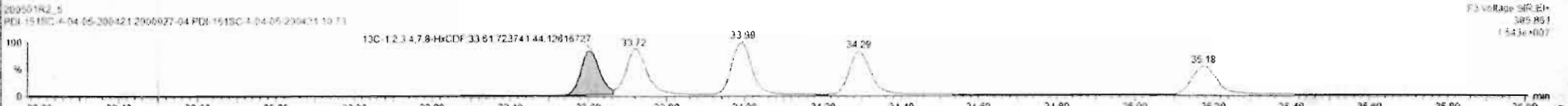
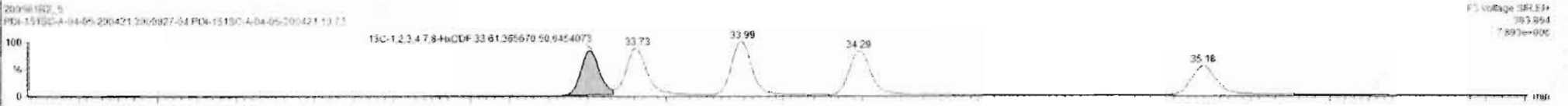
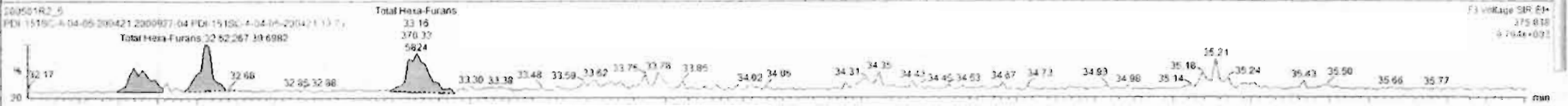
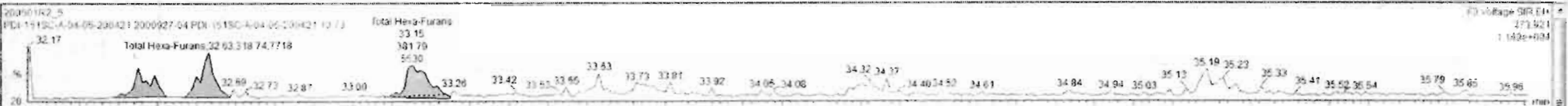


**DPE3**



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	9.996			0.270		0.0845	0.370
42 Total Hepta-Dioxins				0.8979	9.996			2.10		0.129	2.10
43 Total Tetra-Furans				0.7871	9.996					0.0217	
44 1st Func. Penta-Furans				0.9100	9.996			0.119		0.0190	0.119
45 Total Penta-Furans				0.9100	9.996					0.0227	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.45	3.372e2	2.050e2	1.16	NO	0.085738	0.085738
2 Total Hexa-Furans	32.63	3.187e2	2.674e2	1.15	NO	0.11364	0.11364
3 Total Hexa-Furans	33.15	3.816e2	3.703e2	1.00	YES	0.13271	0.00000



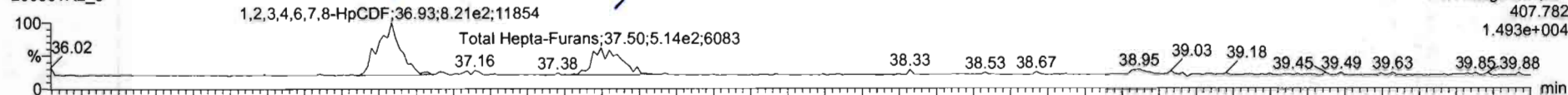
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

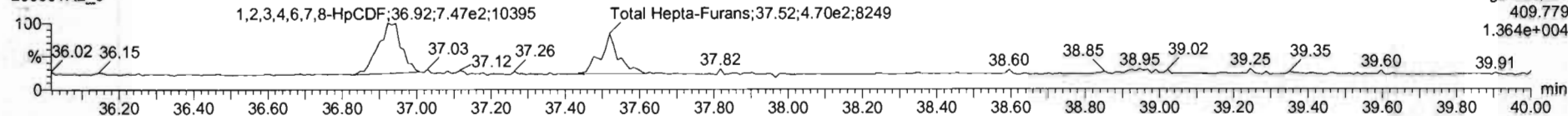
Name: 200501R2\_5, Date: 01-May-2020, Time: 18:28:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421

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

200501R2\_5

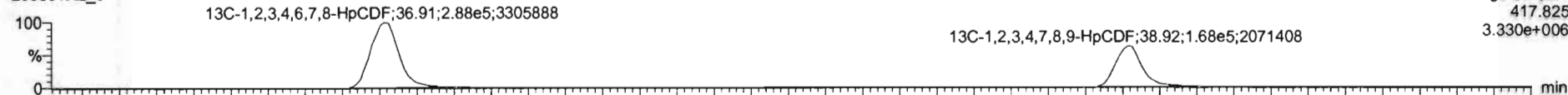


200501R2\_5

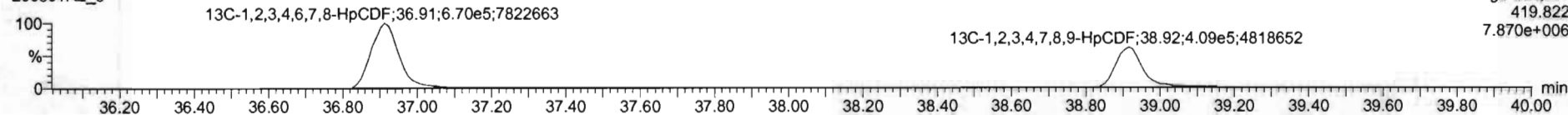


**13C-1,2,3,4,6,7,8-HpCDF**

200501R2\_5

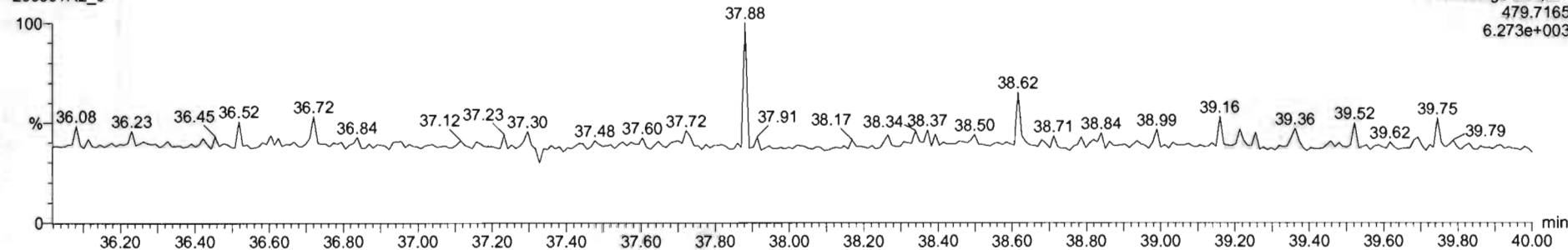


200501R2\_5



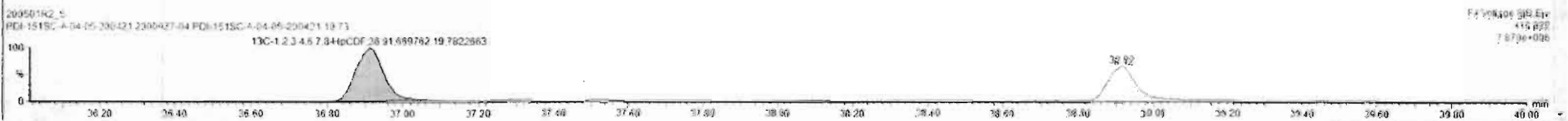
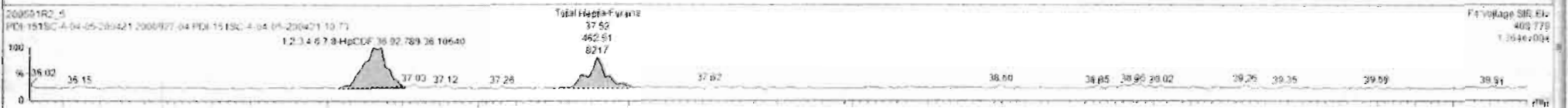
**DPE4**

200501R2\_5



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				0.6712	9.996			0.672		0.0678	0.672
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Calc.
1 1,2,3,4,6,7,8-HpCDF	36.93	6.260e2	7.094e2	1.05	NO	0.38783	0.26763
2 Total Hepta-Furans	37.50	4.880e2	4.625e2	1.06	NO	0.26443	0.26443

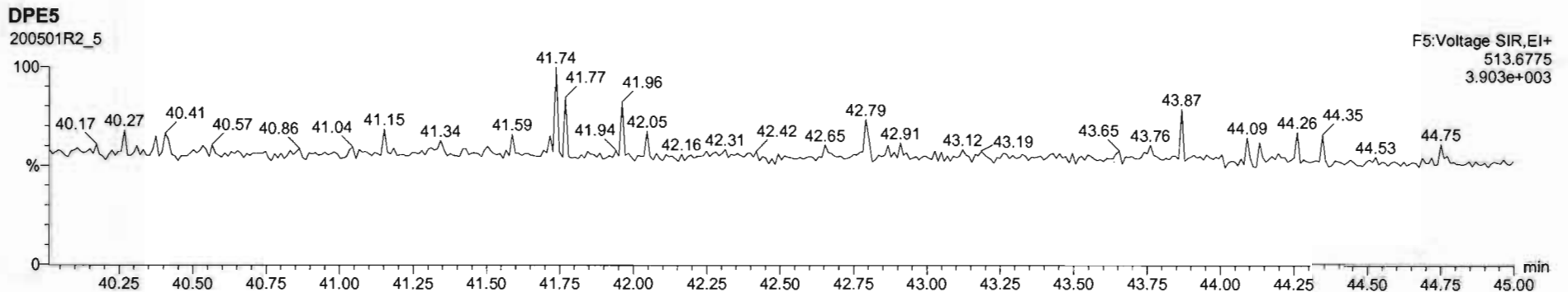
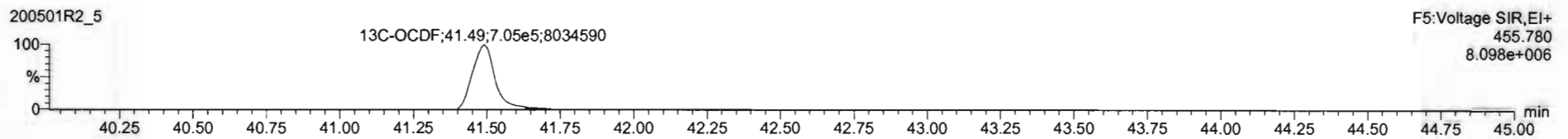
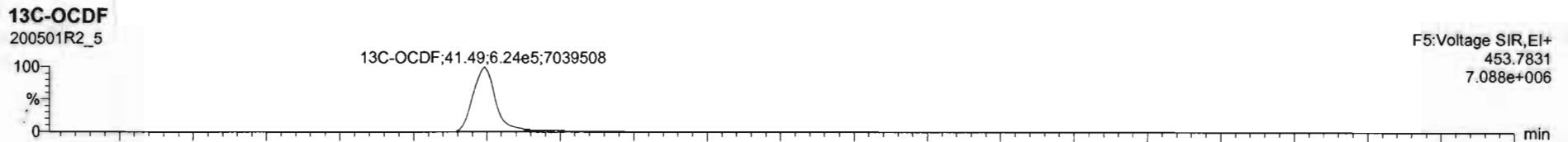
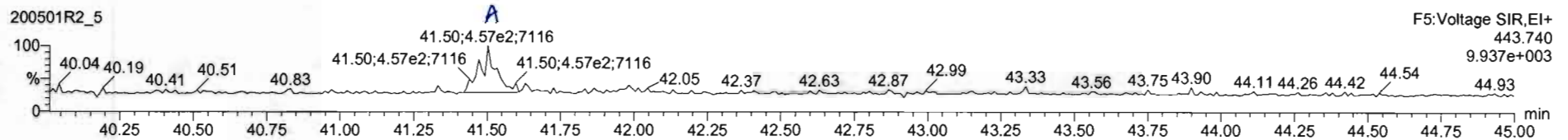
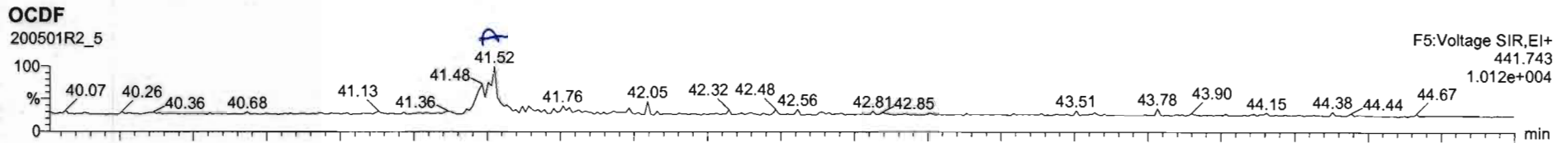




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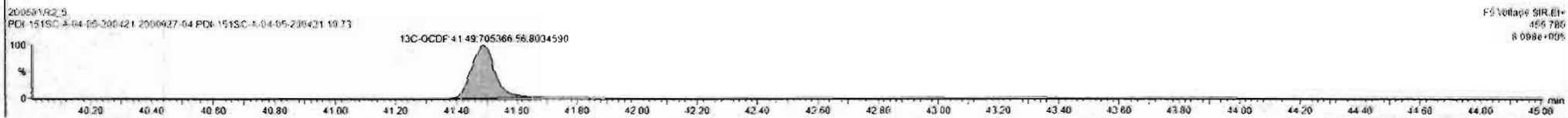
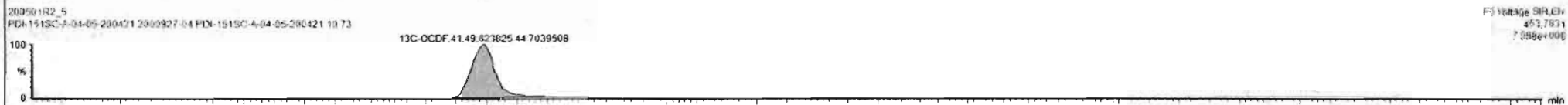
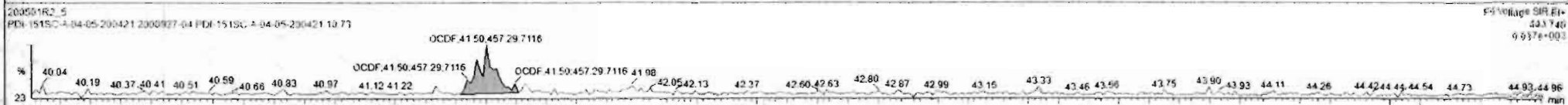
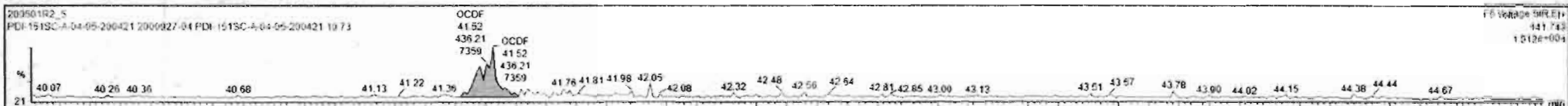
Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_5, Date: 01-May-2020, Time: 18:28:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF	8.94e2	0.95	NO	0.6021	9.956	41.52	1.001	0.335	0.120	0.335
18	13C-2,3,7,8-TCDD	5.27e5	0.79	NO	1.1595	9.958	25.99	1.027	117	59.4	0.179
19	13C-1,2,3,7,8-PeCDD	9.14e5	0.65	NO	0.8472	9.998	31.09	1.220	150	78.6	0.252
20	13C-1,2,3,4,7,8-HxCDD	7.75e5	1.28	NO	0.7499	9.956	34.46	1.014	154	77.2	0.316
21	13C-1,2,3,6,7,8-HxCDD	1.00e6	1.28	NO	0.9630	9.956	34.67	1.017	155	77.7	0.248

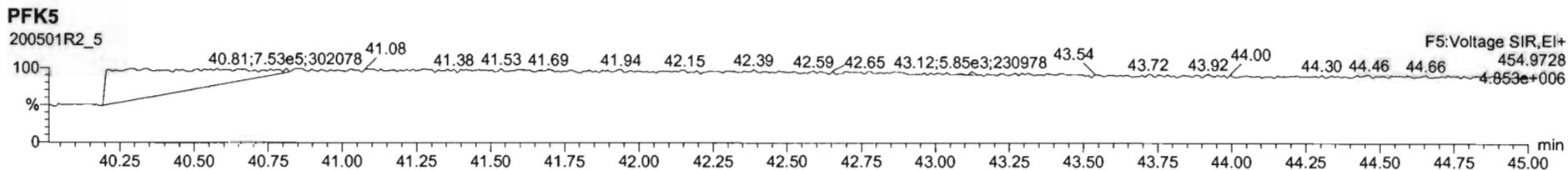
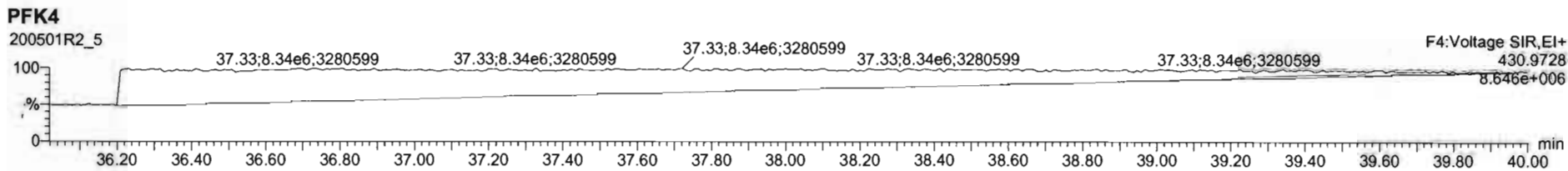
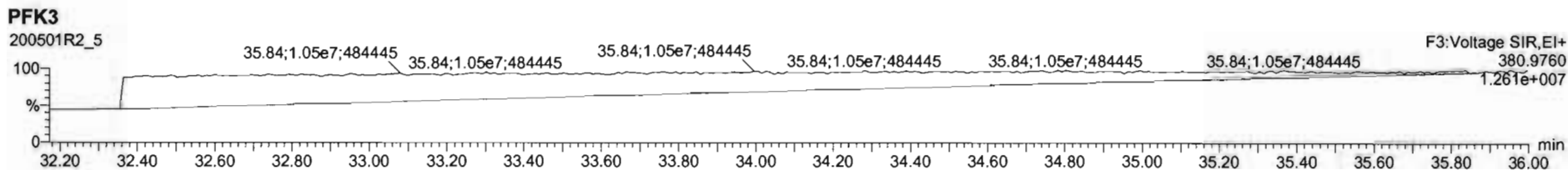
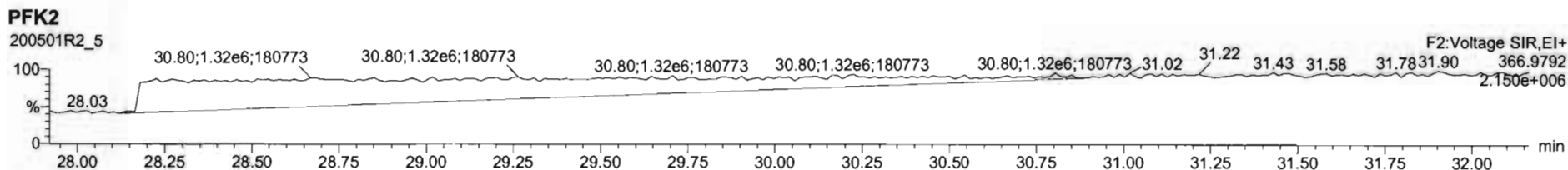
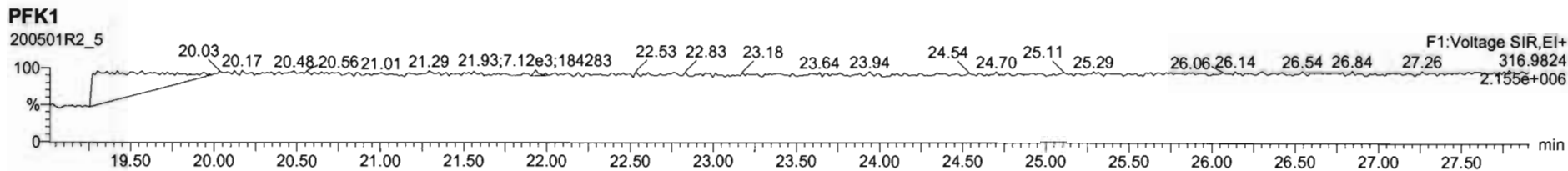
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_5, Date: 01-May-2020, Time: 18:28:06, ID: 2000927-04 PDI-151SC-A-04-05-200421 10.73, Description: PDI-151SC-A-04-05-200421



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-6.qld

Last Altered: Saturday, May 02, 2020 9:54:36 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 9:56:16 AM Pacific Daylight Time

GPB 05/02/2020

C1 05/05/2020

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

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

Name: 200501R2\_6, Date: 01-May-2020, Time: 19:14:17, ID: 2000927-05 PDI-151SC-A-05-06-200421 10.81, Description: PDI-151SC-A-05-06-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	9.999	26.021		1.001				0.0628	
2	2 1,2,3,7,8-PeCDD			NO	0.942	9.999	31.116		1.001				0.0579	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	9.999	34.473		1.000				0.0803	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	9.999	34.559		1.000				0.0836	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	9.999	34.846		1.000				0.0944	
6	6 1,2,3,4,6,7,8-HpCDD	2.55e3	0.98	NO	0.898	9.999	38.341	38.34	1.000	1.000	0.84392		0.175	0.844
7	7 OCDD	1.20e4	0.91	NO	0.933	9.999	41.301	41.32	1.000	1.001	4.9851		0.0940	4.99
8	8 2,3,7,8-TCDF			NO	0.787	9.999	25.057		1.001				0.0393	
9	9 1,2,3,7,8-PeCDF			NO	0.910	9.999	29.803		1.001				0.0345	
10	10 2,3,4,7,8-PeCDF			NO	0.966	9.999	30.805		1.001				0.0319	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	9.999	33.600		1.000				0.0405	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	9.999	33.727		1.000				0.0397	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	9.999	34.326		1.001				0.0411	
14	14 1,2,3,7,8,9-HxCDF	2.15e2	1.18	NO	0.864	9.999	35.176	35.18	1.000	1.000	0.058920		0.0285	0.0589
15	15 1,2,3,4,6,7,8-HpCDF	6.73e2	0.95	NO	0.871	9.999	36.950	36.91	1.001	1.000	0.17943		0.0296	0.179
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	9.999	38.904		1.000				0.0740	
17	17 OCDF			NO	0.802	9.999	41.482		1.000				0.0854	
18	18 13C-2,3,7,8-TCDD	1.17e6	0.80	NO	1.16	9.999	25.984	25.99	1.026	1.027	162.73	81.4	0.226	
19	19 13C-1,2,3,7,8-PeCDD	9.50e5	0.64	NO	0.847	9.999	31.068	31.09	1.227	1.228	180.27	90.1	0.230	
20	20 13C-1,2,3,4,7,8-HxCDD	7.14e5	1.29	NO	0.750	9.999	34.473	34.46	1.014	1.014	166.33	83.2	0.513	
21	21 13C-1,2,3,6,7,8-HxCDD	9.53e5	1.26	NO	0.963	9.999	34.585	34.56	1.017	1.017	172.92	86.4	0.400	
22	22 13C-1,2,3,7,8,9-HxCDD	8.63e5	1.25	NO	0.838	9.999	34.854	34.84	1.025	1.025	179.97	90.0	0.460	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.73e5	1.05	NO	0.641	9.999	38.342	38.33	1.128	1.128	183.29	91.6	0.412	
24	24 13C-OCDD	1.03e6	0.89	NO	0.586	9.999	41.333	41.30	1.216	1.215	306.45	76.6	0.404	
25	25 13C-2,3,7,8-TCDF	1.63e6	0.75	NO	1.03	9.999	25.045	25.03	0.989	0.989	159.80	79.9	0.329	
26	26 13C-1,2,3,7,8-PeCDF	1.48e6	1.59	NO	0.845	9.999	29.759	29.78	1.176	1.176	177.79	88.9	0.677	
27	27 13C-2,3,4,7,8-PeCDF	1.41e6	1.58	NO	0.814	9.999	30.749	30.77	1.215	1.216	175.45	87.7	0.703	
28	28 13C-1,2,3,4,7,8-HxCDF	1.07e6	0.51	NO	1.00	9.999	33.613	33.60	0.989	0.988	186.27	93.1	0.635	
29	29 13C-1,2,3,6,7,8-HxCDF	1.23e6	0.52	NO	1.14	9.999	33.736	33.72	0.992	0.992	188.49	94.2	0.561	
30	30 13C-2,3,4,6,7,8-HxCDF	1.07e6	0.51	NO	1.02	9.999	34.303	34.29	1.009	1.009	183.19	91.6	0.624	
31	31 13C-1,2,3,7,8,9-HxCDF	8.43e5	0.52	NO	0.845	9.999	35.194	35.18	1.035	1.035	174.40	87.2	0.755	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-6.qld

Last Altered: Saturday, May 02, 2020 9:54:36 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 9:56:16 AM Pacific Daylight Time

Name: 200501R2\_6, Date: 01-May-2020, Time: 19:14:17, ID: 2000927-05 PDI-151SC-A-05-06-200421 10.81, Description: PDI-151SC-A-05-06-200421

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	8.61e5	0.44	NO	0.771	9.999	36.924	36.91	1.086	1.086	195.09	97.5	0.498	
33	13C-1,2,3,4,7,8,9-HpCDF	5.01e5	0.45	NO	0.482	9.999	38.933	38.90	1.145	1.144	181.64	90.8	0.796	
34	13C-OCDF	1.08e6	0.88	NO	0.669	9.999	41.503	41.48	1.221	1.220	282.36	70.6	0.504	
35	37Cl-2,3,7,8-TCDD	4.97e5			1.10	9.999	26.015	26.00	1.028	1.027	72.769	90.9	0.0530	
36	13C-1,2,3,4-TCDD	1.24e6	0.81	NO	1.00	9.999	25.350	25.32	1.000	1.000	200.03	100	0.262	
37	13C-1,2,3,4-TCDF	1.97e6	0.79	NO	1.00	9.999	23.560	23.53	1.000	1.000	200.03	100	0.340	
38	13C-1,2,3,4,6,9-HxCDF	1.14e6	0.51	NO	1.00	9.999	34.000	33.99	1.000	1.000	200.03	100	0.638	
39	Total Tetra-Dioxins				0.947	9.999	24.620		0.000		0.00000		0.0365	0.0834
40	Total Penta-Dioxins				0.942	9.999	29.960		0.000				0.0272	
41	Total Hexa-Dioxins				0.915	9.999	33.635		0.000		0.66816		0.0901	0.668
42	Total Hepta-Dioxins				0.898	9.999	37.640		0.000		2.0038		0.175	2.00
43	Total Tetra-Furans				0.787	9.999	23.610		0.000				0.0166	
44	1st Func. Penta-Furans				0.910	9.999	27.090		0.000		0.00000		0.00649	0.0560
45	Total Penta-Furans				0.910	9.999	29.275		0.000				0.0129	
46	Total Hexa-Furans				0.922	9.999	33.555		0.000		0.12178		0.0186	0.211
47	Total Hepta-Furans				0.871	9.999	37.835		0.000		0.30592		0.0365	0.306

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-6.qld

Last Altered: Saturday, May 02, 2020 9:54:36 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 9:56:16 AM Pacific Daylight Time

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

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

Name: 200501R2\_6, Date: 01-May-2020, Time: 19:14:17, ID: 2000927-05 PDI-151SC-A-05-06-200421 10.81, Description: PDI-151SC-A-05-06-200421

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.70	4.231e3	3.562e3	3.229e2	2.622e2	1.23	YES	0.000e0	0.00000	0.083437	0.0628

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.618e4	1.192e4	8.158e2	6.519e2	1.25	NO	1.468e3	0.38069	0.38069	0.0901
2	Total Hexa-Dioxins	33.79	7.646e3	9.319e3	6.182e2	4.901e2	1.26	NO	1.108e3	0.28747	0.28747	0.0901

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	2.232e4	2.459e4	1.755e3	1.749e3	1.00	NO	3.504e3	1.1599	1.1599	0.175
2	1,2,3,4,6,7,8-HpCDD	38.34	1.809e4	1.634e4	1.259e3	1.291e3	0.98	NO	2.549e3	0.84392	0.84392	0.175

**Tetra-Furans**

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

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.16	2.360e3	2.496e3	2.241e2	1.772e2	1.26	YES	0.000e0	0.00000	0.056010	0.00649

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-6.qld

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Printed: Saturday, May 02, 2020 9:56:16 AM Pacific Daylight Time

7, ID: 200927-05 PDI-151SC-A-05-06-200421 10.81, Description: PDI-151SC-A-05-06-200421

Method: U:\VG12.P

Carbation: U:\VG12.P

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.63	2.441e3	3.565e3	1.431e2	1.602e2	0.89	YES	0.000e0	0.00000	0.053254	0.0186
2	Total Hexa-Furans	33.18	3.791e3	3.675e3	1.651e2	1.400e2	1.18	NO	3.051e2	0.062855	0.062855	0.0186
3	1,2,3,7,8,9-HxCDF	35.18	3.056e3	4.072e3	1.162e2	9.849e1	1.18	NO	2.147e2	0.058920	0.058920	0.0285
4	Total Hexa-Furans	35.22	2.239e3	2.715e3	9.736e1	1.093e2	0.89	YES	0.000e0	0.00000	0.036241	0.0186

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.91	5.952e3	4.414e3	3.275e2	3.455e2	0.95	NO	6.730e2	0.17943	0.17943	0.0296
2	Total Hepta-Furans	37.52	3.528e3	2.828e3	2.016e2	1.737e2	1.16	NO	3.753e2	0.12649	0.12649	0.0365

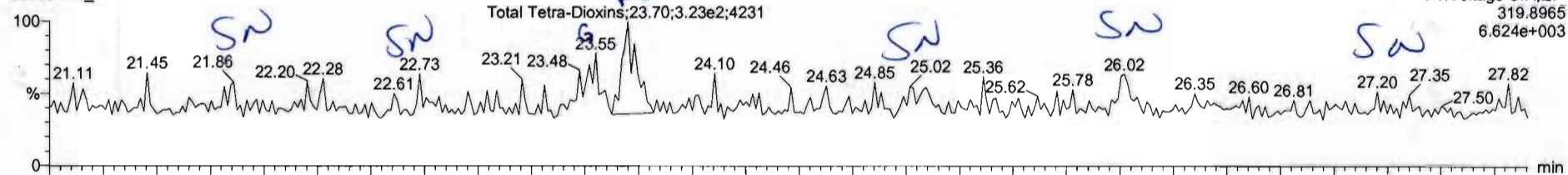
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Name: 200501R2\_6, Date: 01-May-2020, Time: 19:14:17, ID: 2000927-05 PDI-151SC-A-05-06-200421 10.81, Description: PDI-151SC-A-05-06-200421

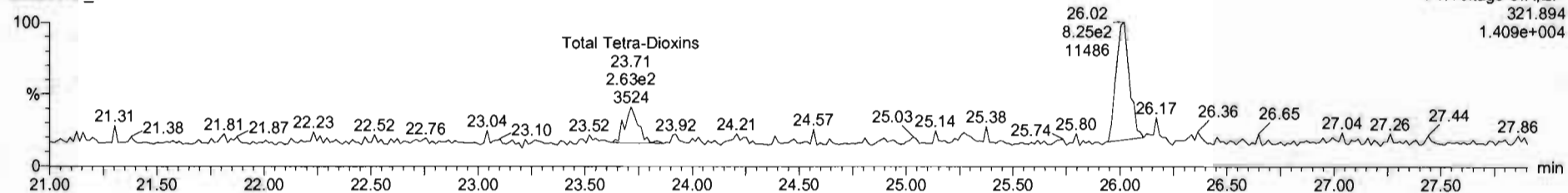
2,3,7,8-TCDD

200501R2\_6



F1: Voltage SIR, EI+  
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6.624e+003

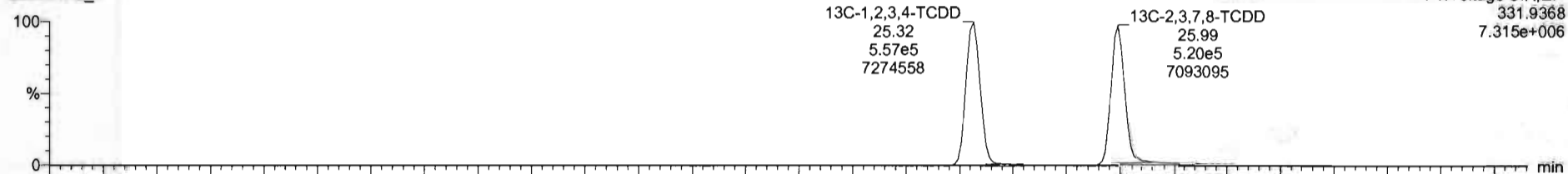
200501R2\_6



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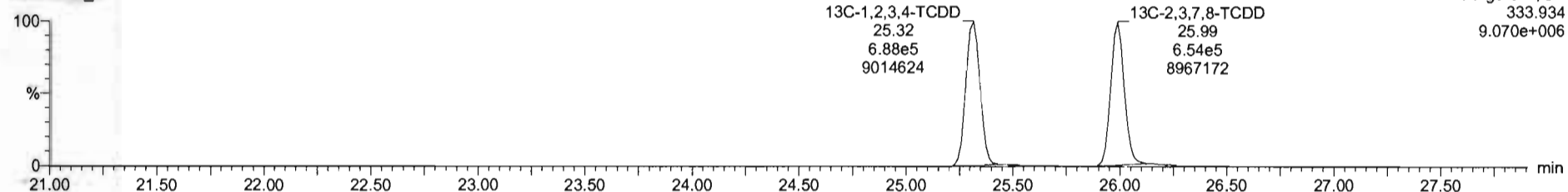
13C-2,3,7,8-TCDD

200501R2\_6



F1: Voltage SIR, EI+  
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7.315e+006

200501R2\_6

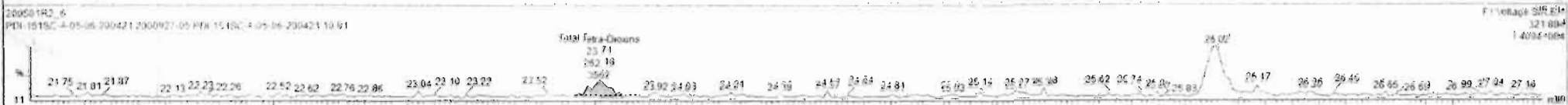
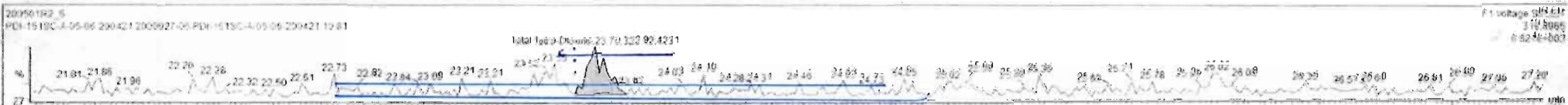


F1: Voltage SIR, EI+  
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9.070e+006



Name	Resp	RA	rvy	RRF	rsval	RT	RRT	Conc	%REC	Ds	EMPC
39 Total Tetra-Dioxins				0.9475	9.999			0.000		0.000	0.0834
40 Total Penta-Dioxins				0.9425	9.999					0.0272	
41 Total Hexa-Dioxins				0.9145	9.999			0.372		0.0901	0.609
42 Total Hepta-Dioxins				0.8979	9.999			1.63		0.178	1.63
43 Total Tetra-Furans				0.7871	9.999					0.0196	

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1 Total Tetra-Dioxins	23.70	3.279e2	2.622e2	1.23	YES	0.083437	0.00000



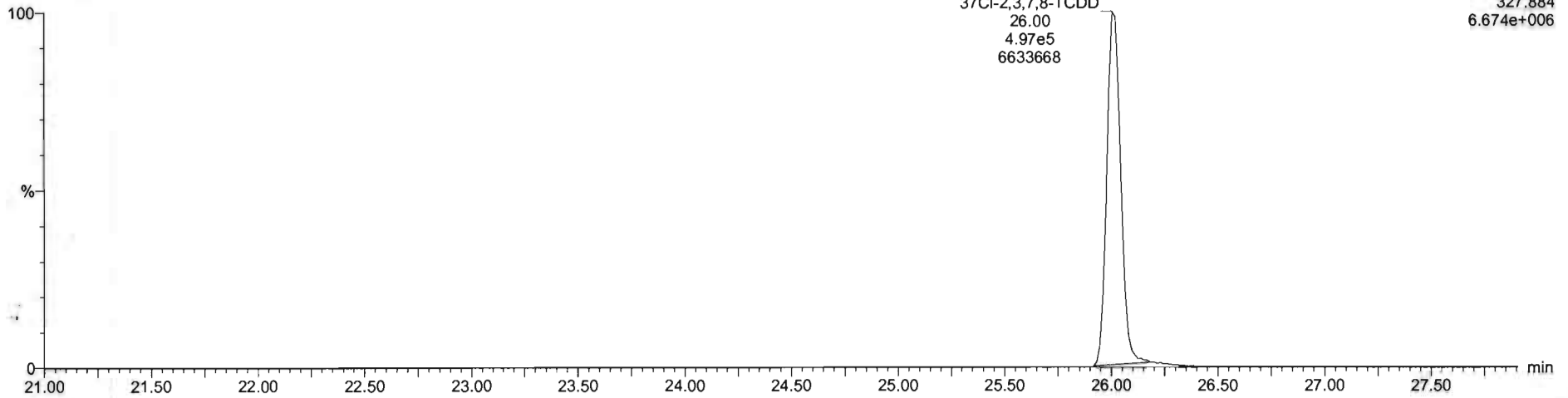
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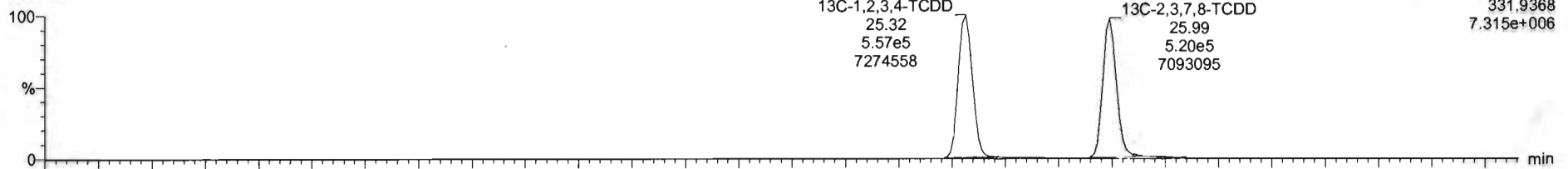
**37Cl-2,3,7,8-TCDD**

200501R2\_6

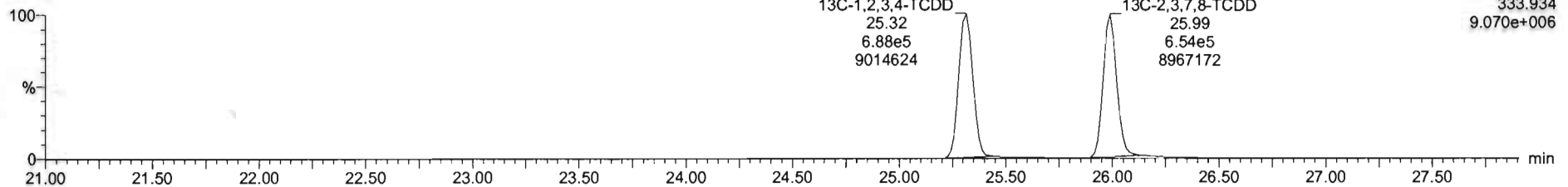


**13C-1,2,3,4-TCDD**

200501R2\_6



200501R2\_6



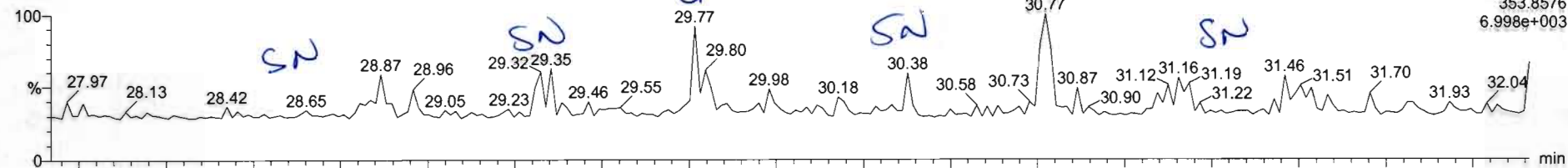
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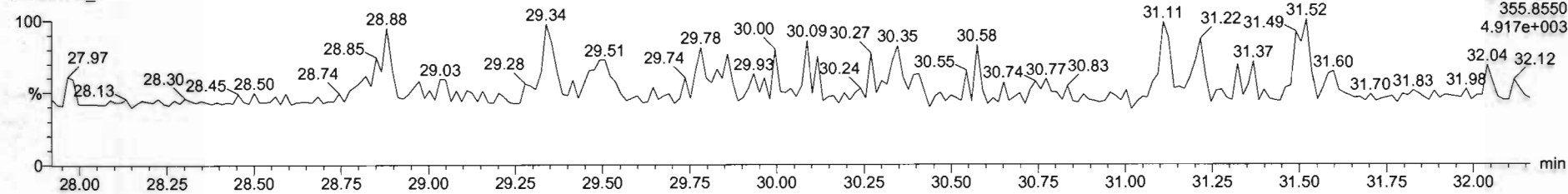
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1,2,3,7,8-PeCDD

200501R2\_6

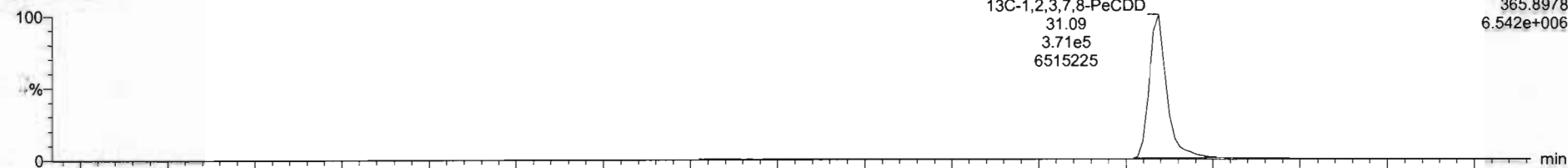


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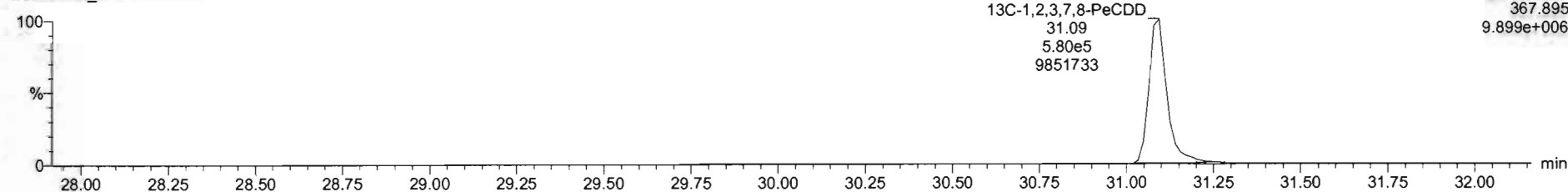


13C-1,2,3,7,8-PeCDD

200501R2\_6



200501R2\_6



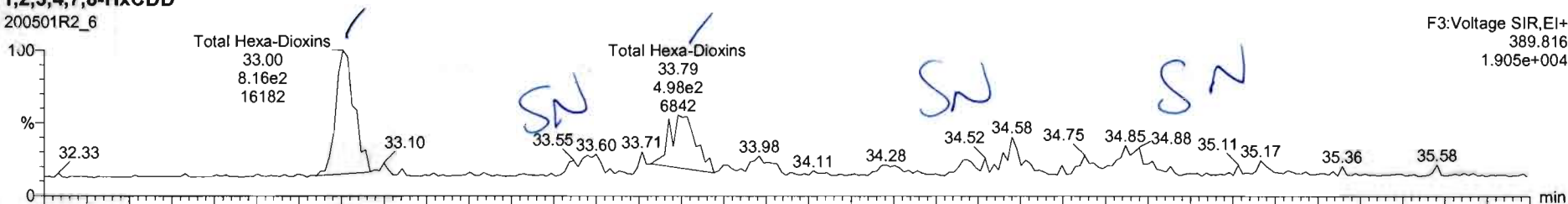
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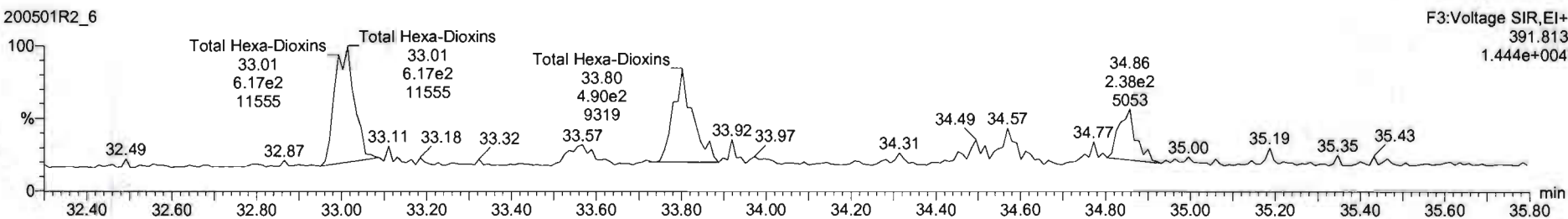
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1,2,3,4,7,8-HxCDD

200501R2\_6

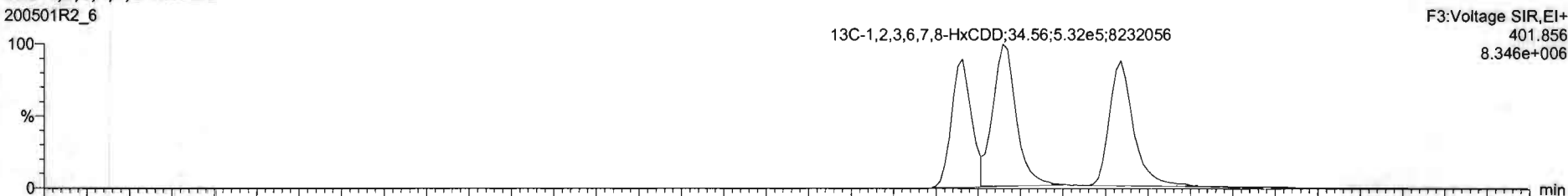


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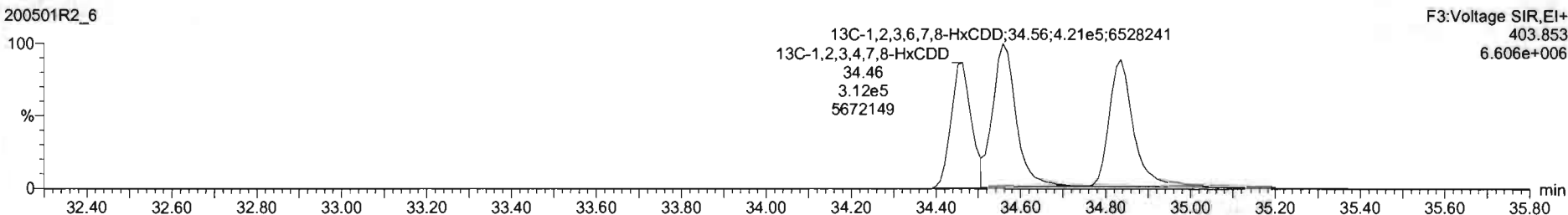


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200501R2\_6

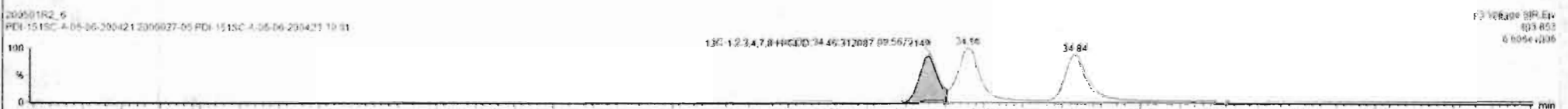
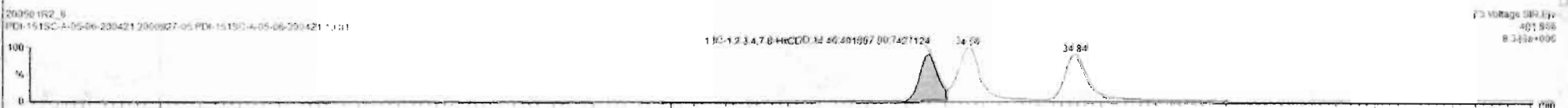
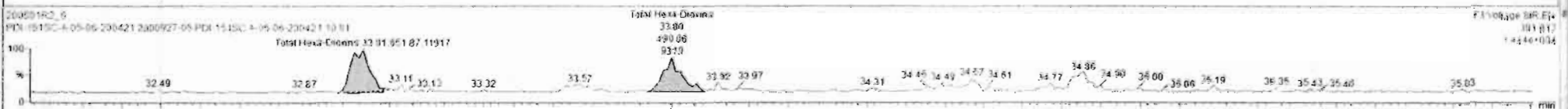
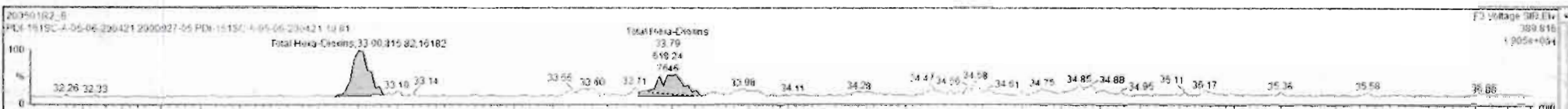


200501R2\_6



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	9.399			0.890		0.0364	0.0034
40 Total Penta-Dioxins				0.8425	9.099					0.0272	
41 Total Hexa-Dioxins				0.9145	9.999			0.660		0.0091	0.660
42 Total Hepta-Dioxins				0.8975	9.399			1.63		0.176	1.63
43 Total Tetra-Furans				0.7871	9.999					0.0166	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.00	6.150e2	6.515e2	1.26	NO	0.30069	0.30069
2 Total Hexa-Dioxins	33.76	6.192e2	4.901e2	1.26	NO	0.28747	0.28747



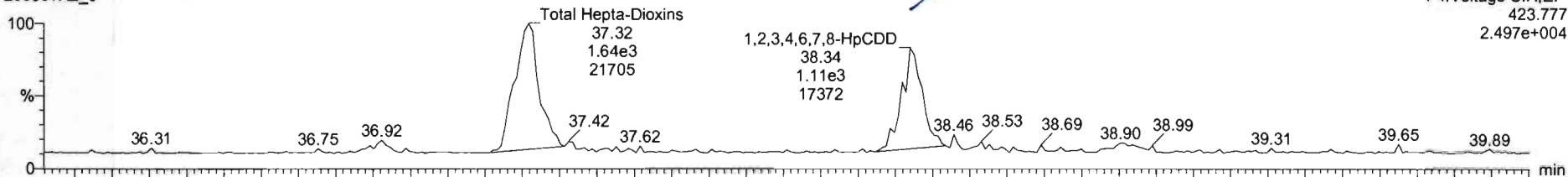
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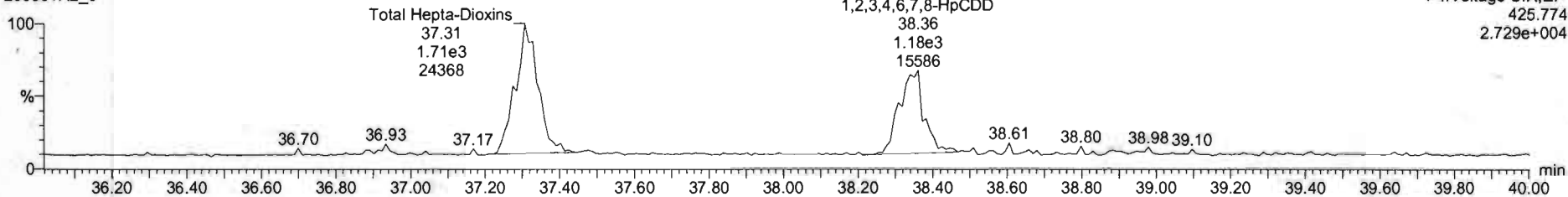
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**1,2,3,4,6,7,8-HpCDD**

200501R2\_6

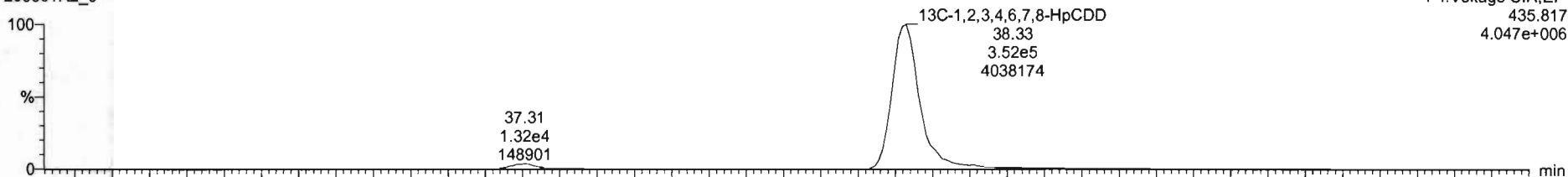


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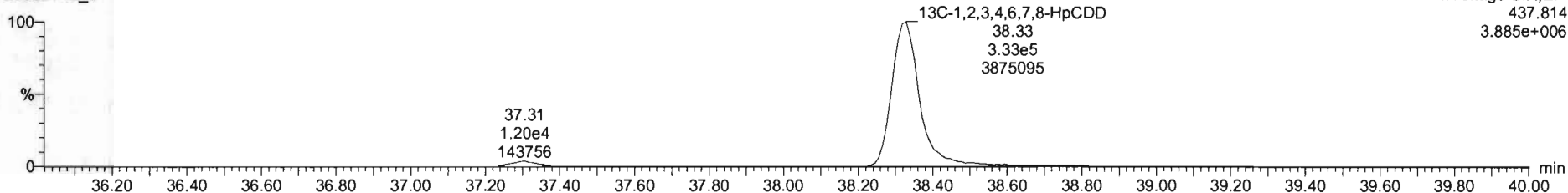


**13C-1,2,3,4,6,7,8-HpCDD**

200501R2\_6

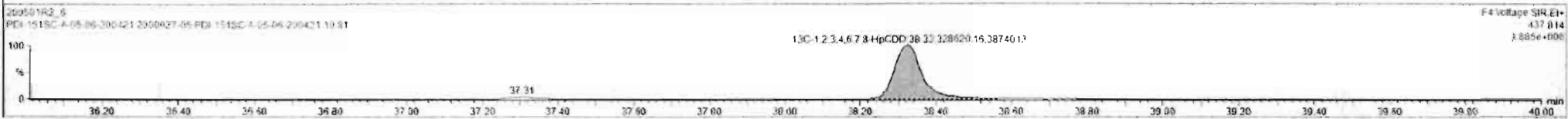
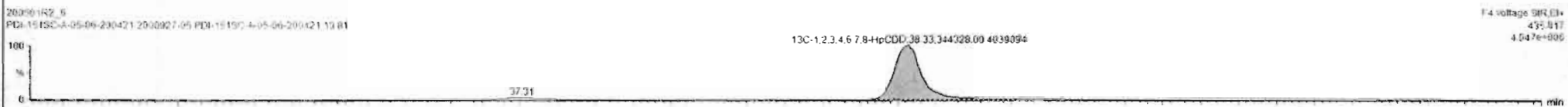
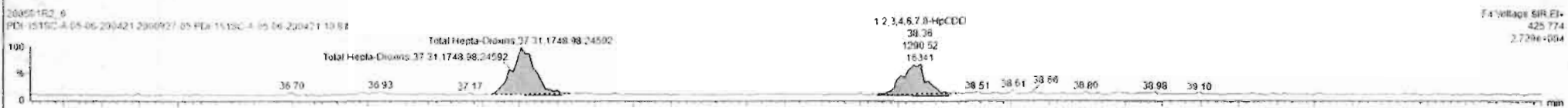
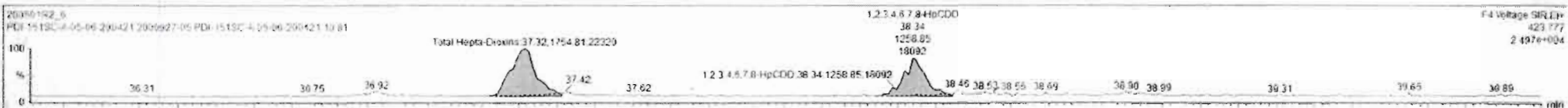


200501R2\_6



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	9.959			0.000		0.0365	0.0834
40 Total Penta-Dioxins				0.9425	9.996					0.0272	
41 Total Hexa-Dioxins				0.9145	9.999			0.668		0.0901	0.669
42 Total Hepta-Dioxins				0.6979	9.990			2.00		0.175	2.00
43 Total Tetra-Furans				0.7971	9.995					0.0166	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hepta-Dioxins	37.32	1.755e2	1.749e3	1.00	NO	1.1595	1.1598
2 1,2,3,4,6,7,8-HpCDD	38.34	1.270e3	1.291e3	0.98	NO	0.64392	0.64392



Custom Reporting: Select reports to generate.

200501R2.6

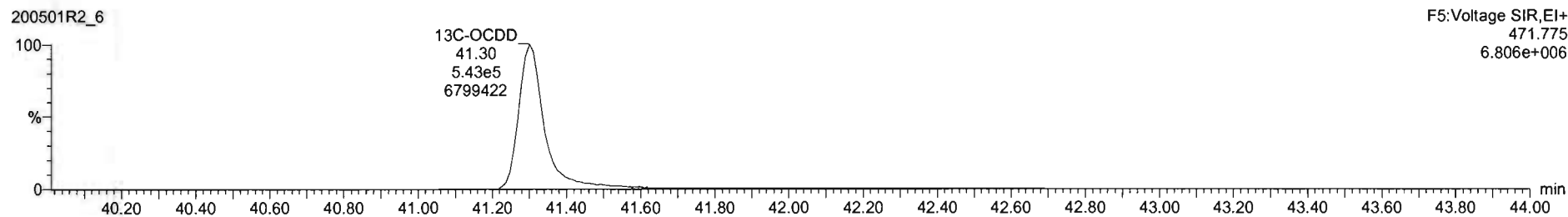
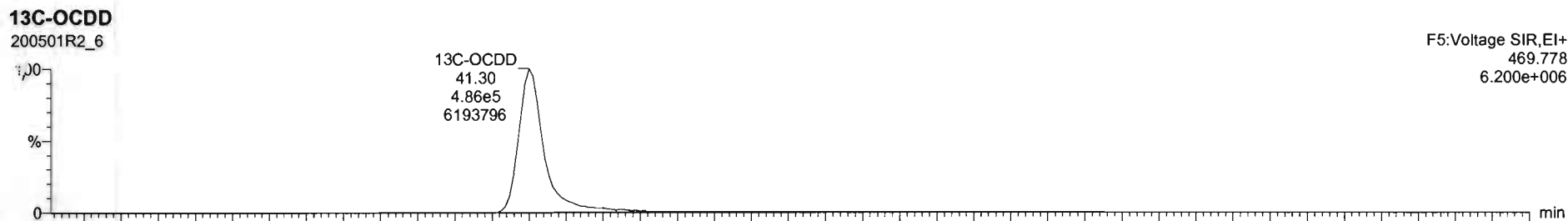
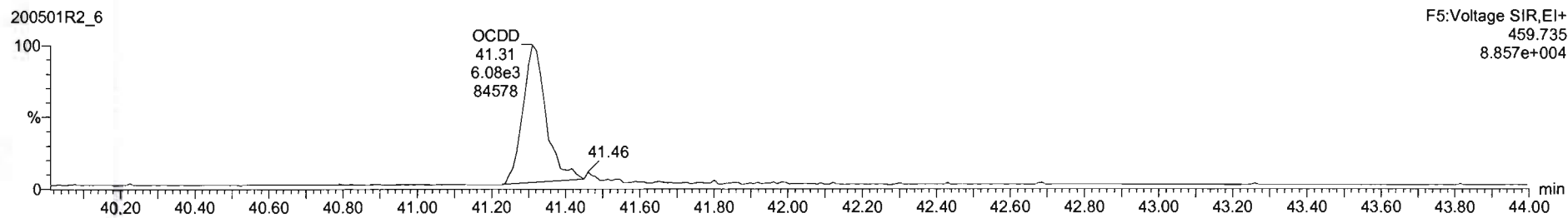
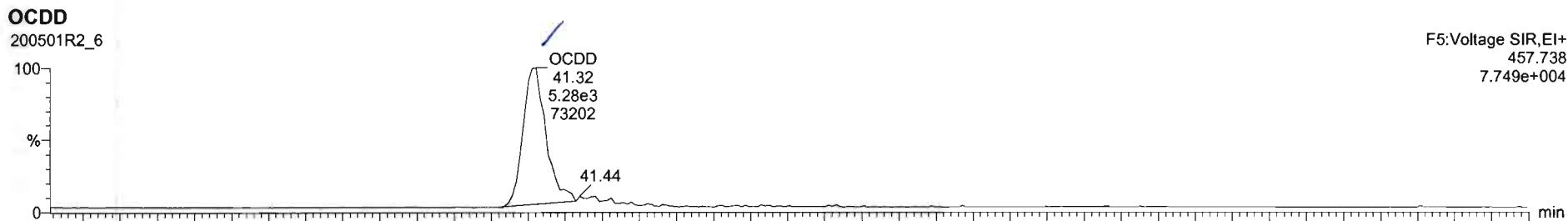
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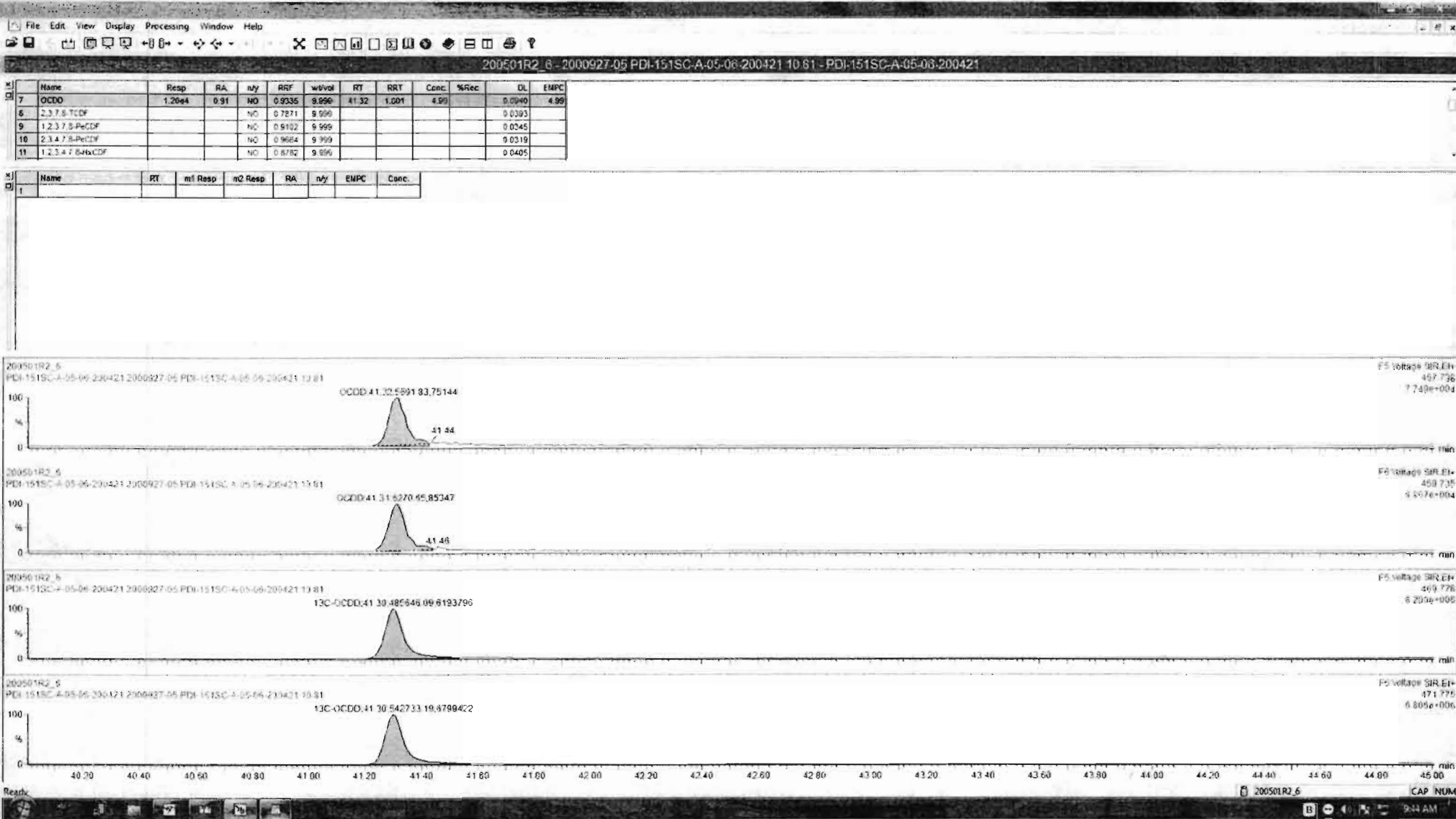
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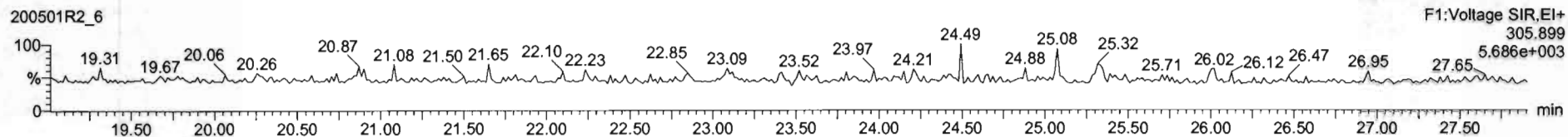
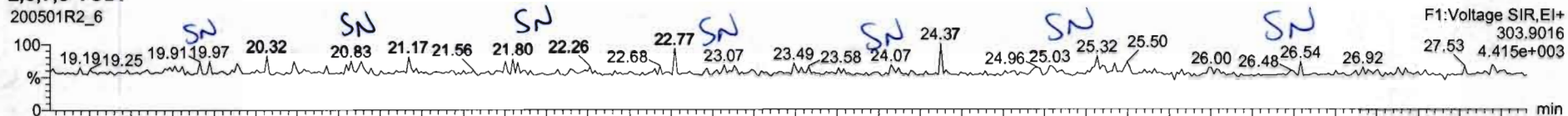


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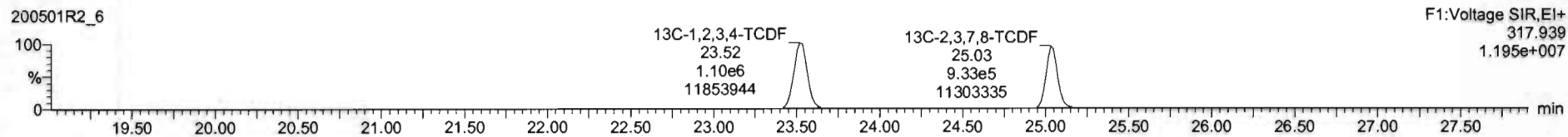
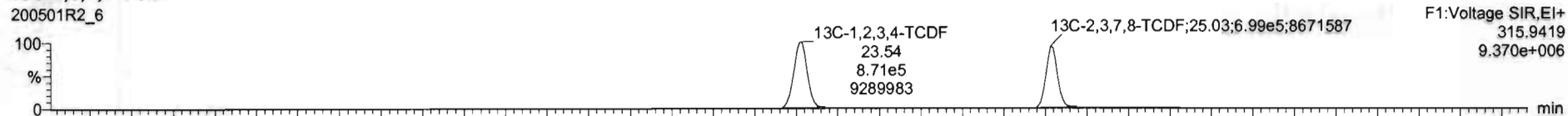
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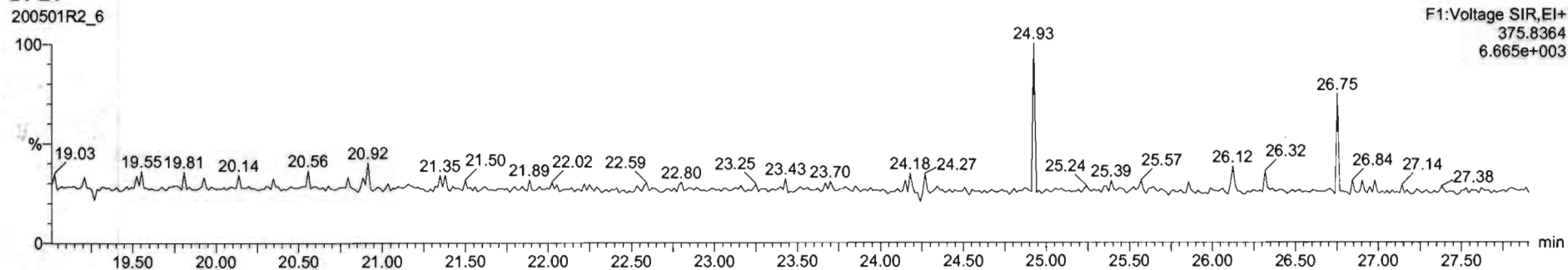
**2,3,7,8-TCDF**



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



**DPE1**



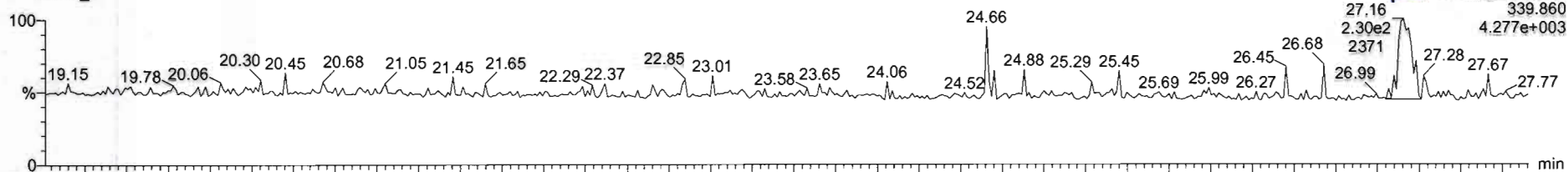
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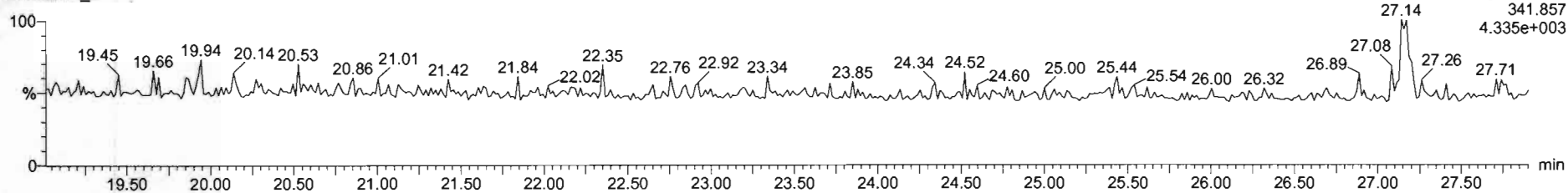
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1st Func. Penta-Furans

200501R2\_6

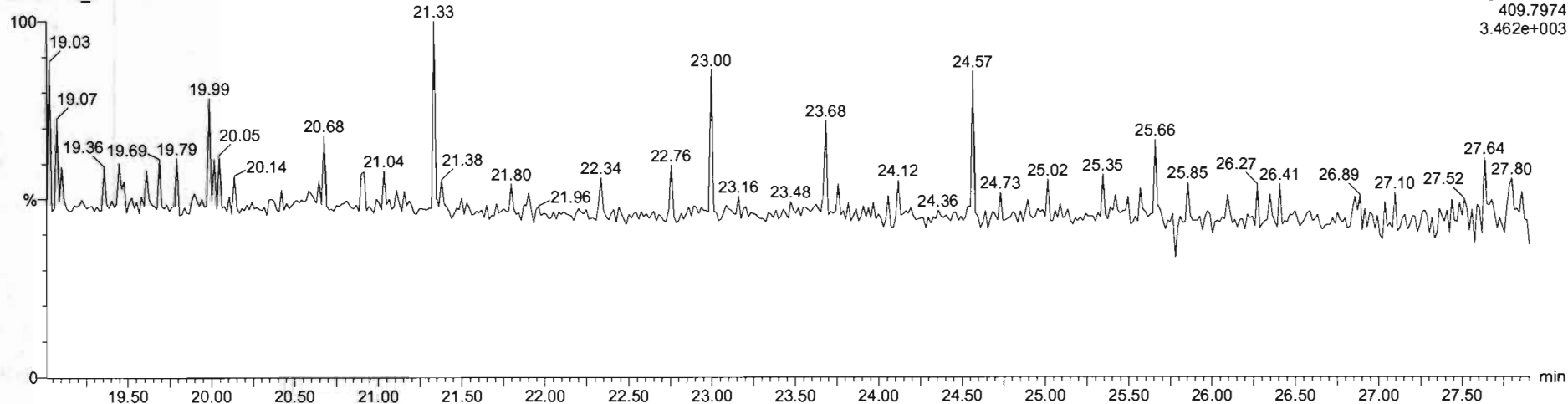


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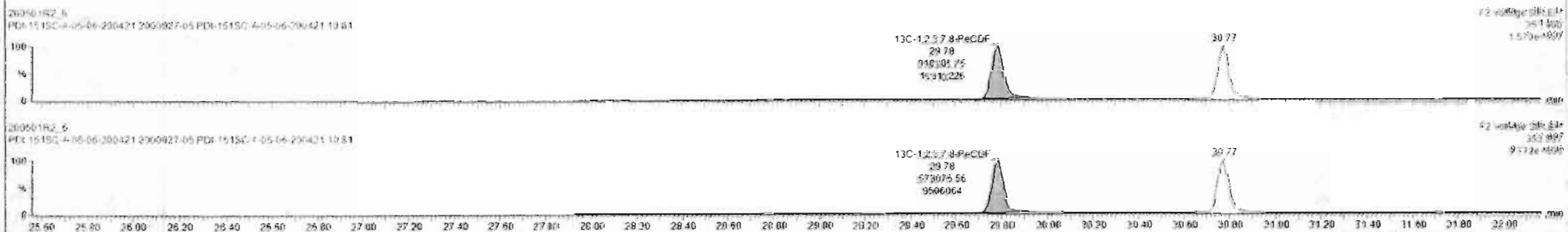
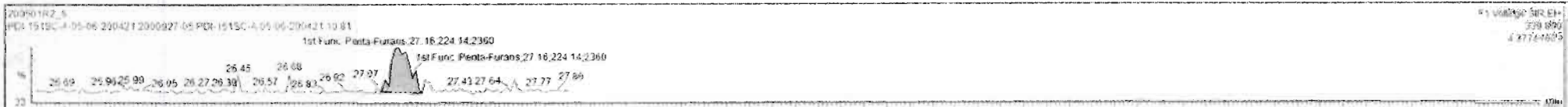
DPE6

200501R2\_6



Name	Resp	RA	nfy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	9.999			0.000		0.0365	0.0814
40 Total Penta-Dioxins				0.9425	9.999					0.0272	
41 Total Hexa-Dioxins				0.9145	9.999			0.668		0.0901	0.066
42 Total Hepta-Dioxins				0.8975	9.999			2.00		0.175	2.00
43 Total Tetra-Furans				0.7071	9.999					0.0166	

Name	RT	m1 Resp	m2 Resp	RA	nfy	EMPC	Conc.
1 1st Func. Penta-Furans	27.16	2.241e2	1.772e2	1.26	YES	0.056010	0.00000

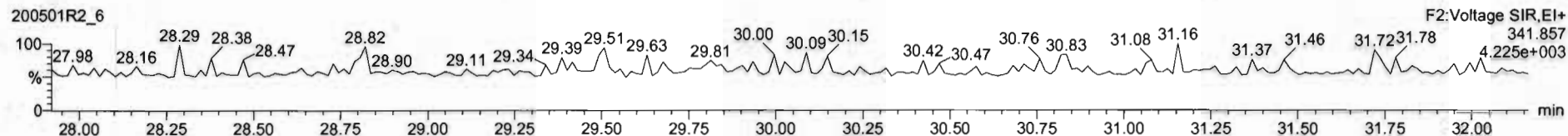
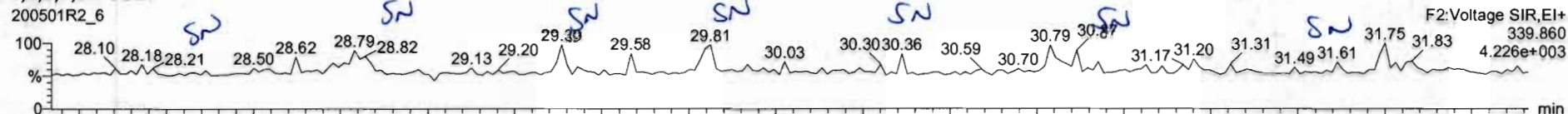


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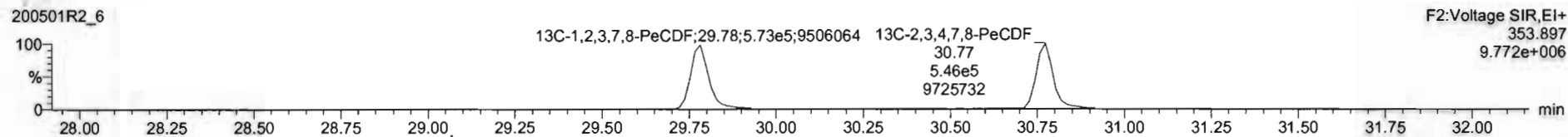
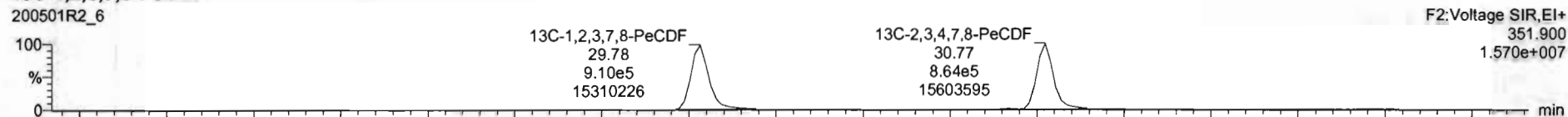
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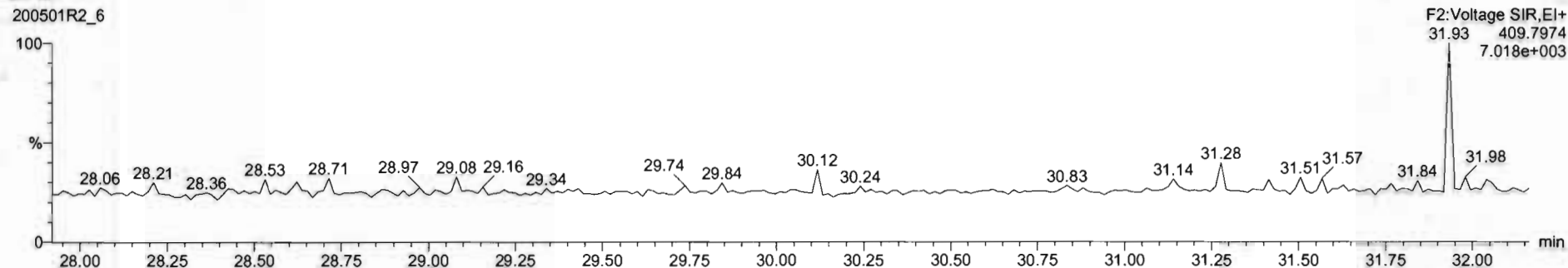
**1,2,3,7,8-PeCDF**



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



**DPE2**

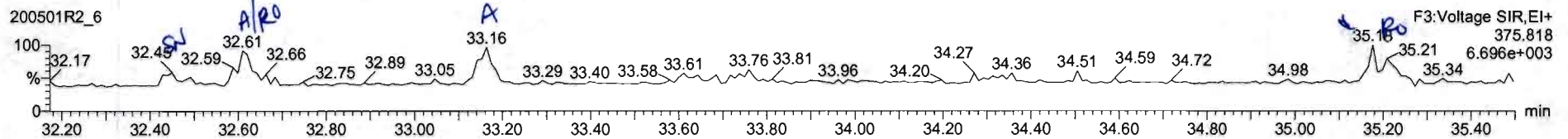


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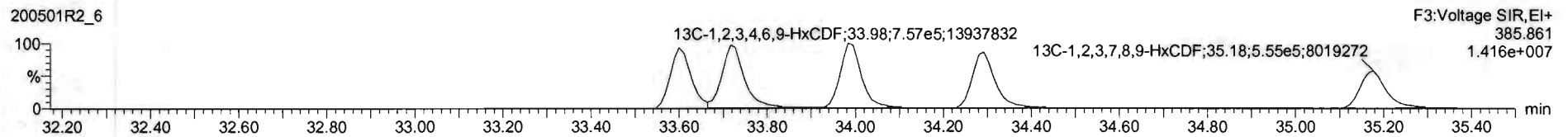
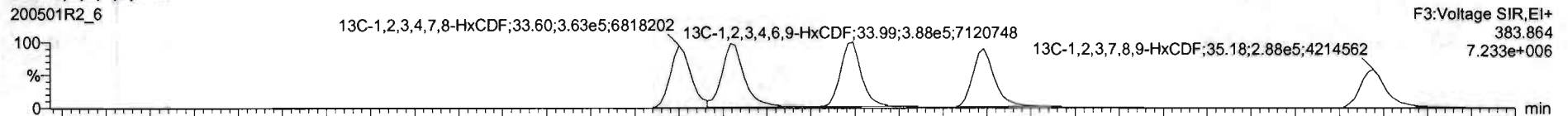
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_6, Date: 01-May-2020, Time: 19:14:17, ID: 2000927-05 PDI-151SC-A-05-06-200421 10.81, Description: PDI-151SC-A-05-06-200421

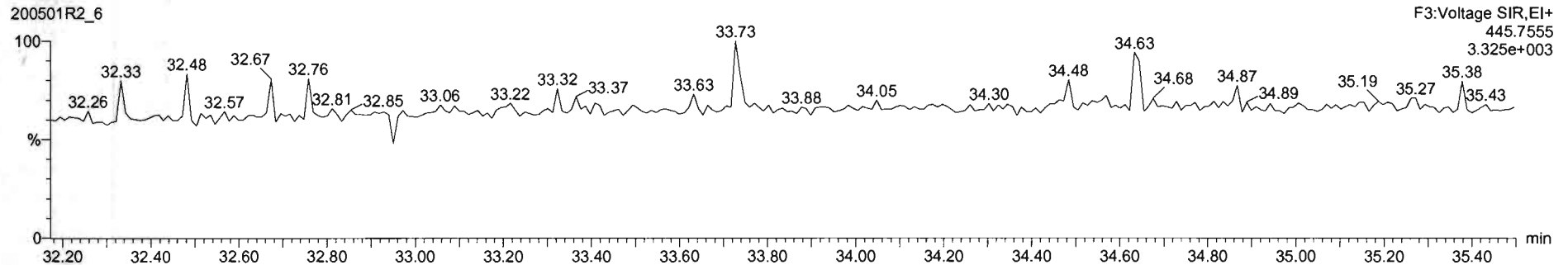
1,2,3,4,7,8-HxCDF



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

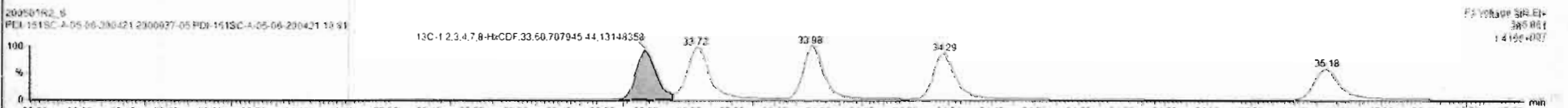
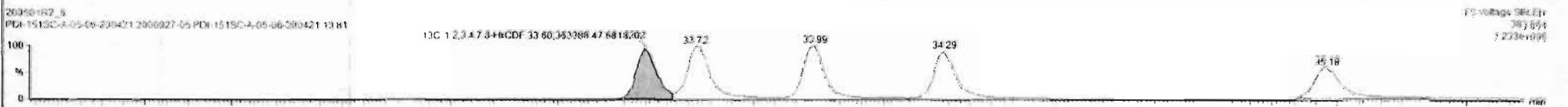
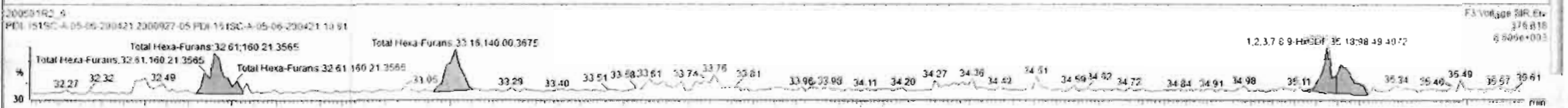
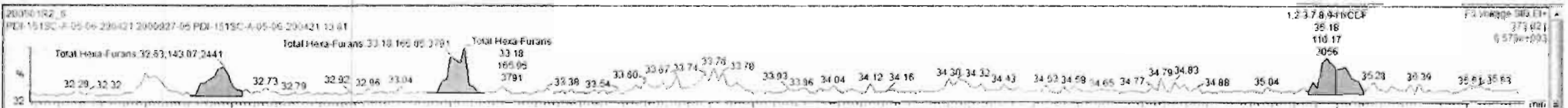


DPE3



#	Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9152	9.359					0.0129	
46	Total Hexa-Furans				0.9217	9.999			0.122		0.0198	0.211
47	Total Hepta-Furans				0.8712	9.399					0.0365	
48	PK1											
49	PK2											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	32.53	1.431e2	1.802e2	0.89	YES	0.053254	0.00000
2	Total Hexa-Furans	33.18	1.851e2	1.400e2	1.18	NO	0.002855	0.062855
3	1,2,3,7,8-HxCDF	35.18	1.162e2	9.849e1	1.18	NO	0.058928	0.558928
4	Total Hexa-Furans	35.22	9.738e1	1.093e2	0.88	YES	0.026241	0.00000



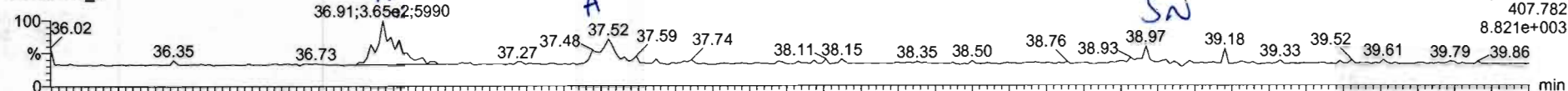
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Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

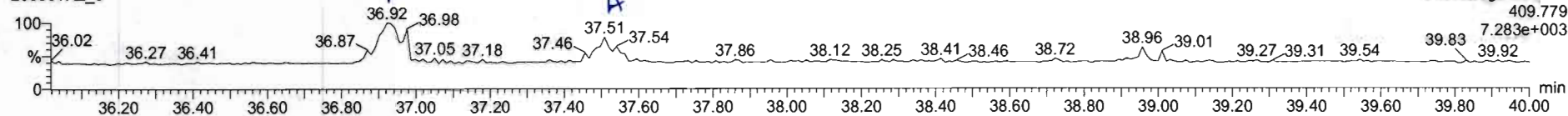
Name: 200501R2\_6, Date: 01-May-2020, Time: 19:14:17, ID: 2000927-05 PDI-151SC-A-05-06-200421 10.81, Description: PDI-151SC-A-05-06-200421

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

200501R2\_6

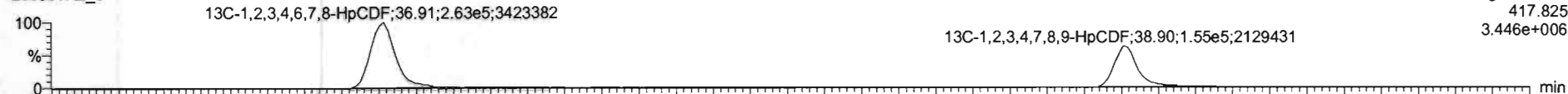


200501R2\_6

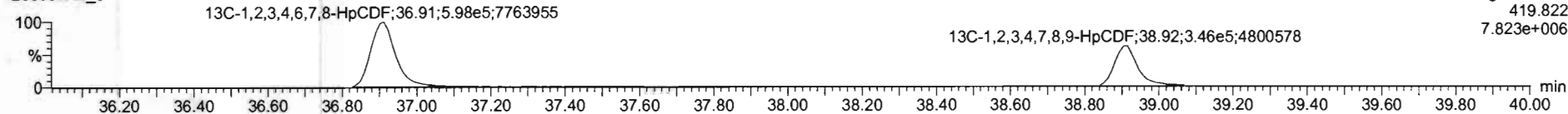


13C-1,2,3,4,6,7,8-HpCDF

200501R2\_6

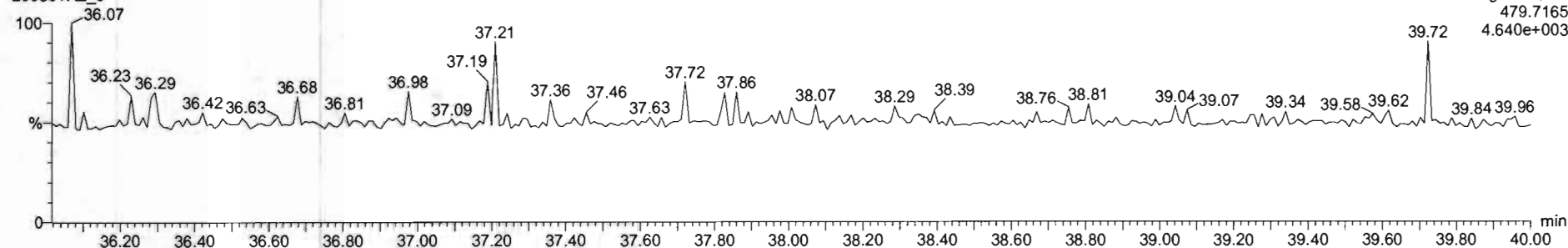


200501R2\_6



DPE4

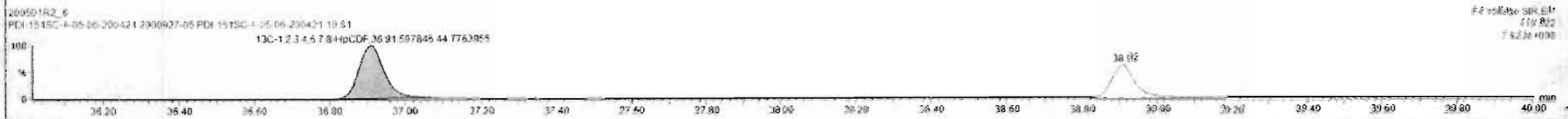
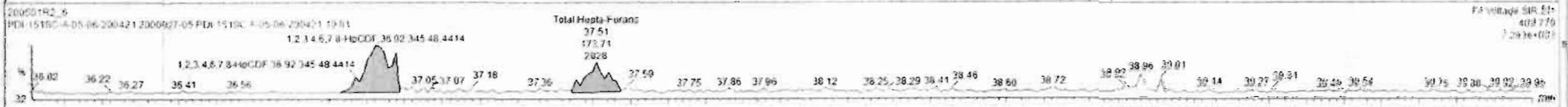
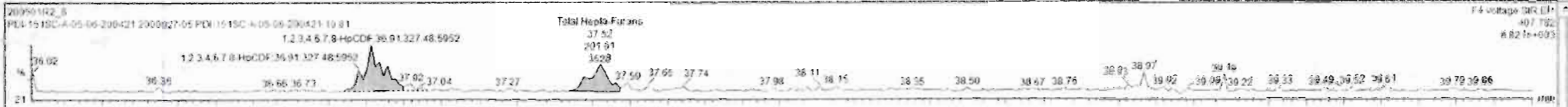
200501R2\_6





Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.3102	9.959					0.0129	
46 Total Hexa-Furans				0.6217	9.959			0.122		0.0186	0.211
47 Total Hepta-Furans				0.8712	9.959			0.206		0.0265	0.306
48 PK1											
49 PK2											

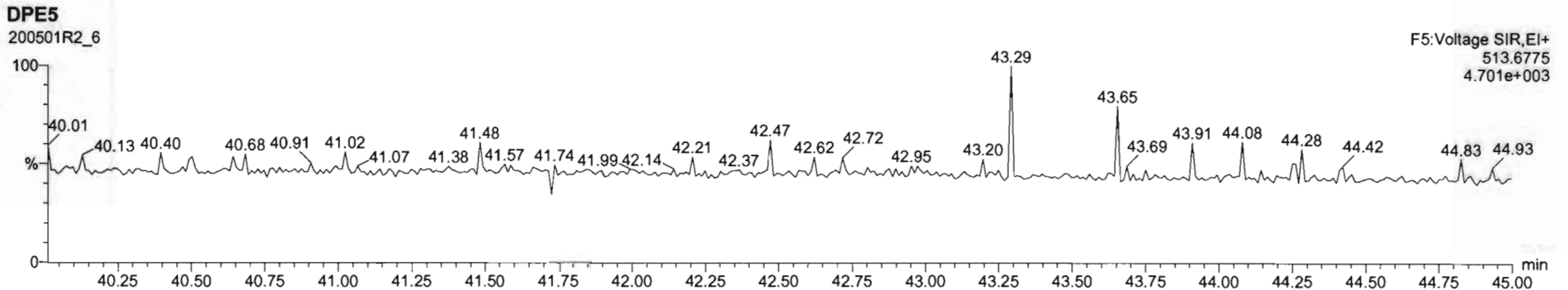
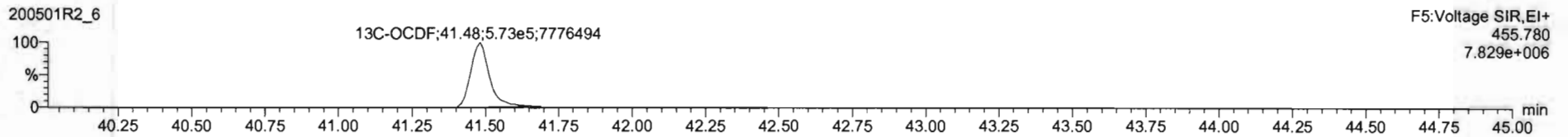
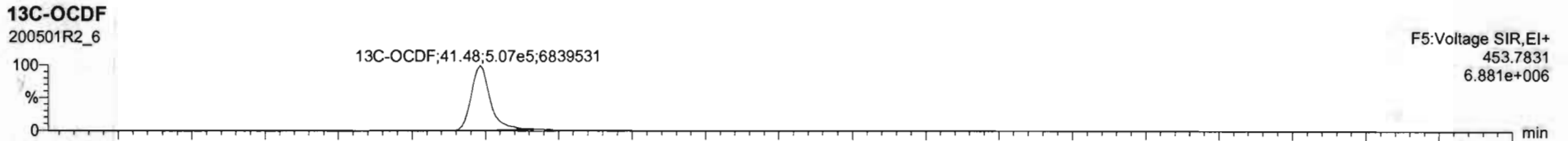
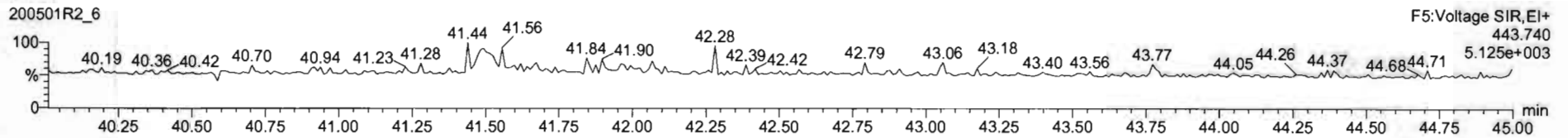
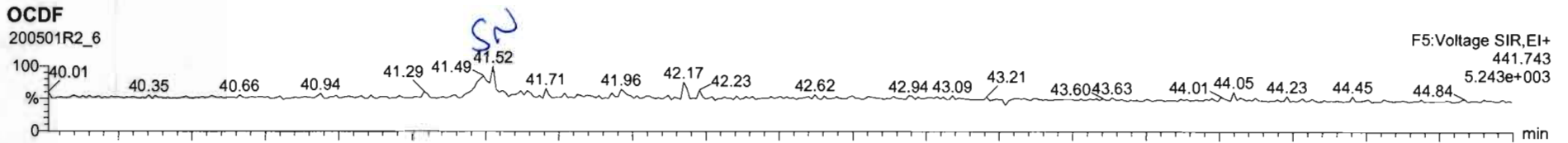
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.91	1.272e2	1.455e2	0.95	NO	0.17943	0.17943
2 Total Hepta-Furans	37.52	2.018e2	1.737e2	1.16	NO	0.12649	0.12649



Dataset: Untitled

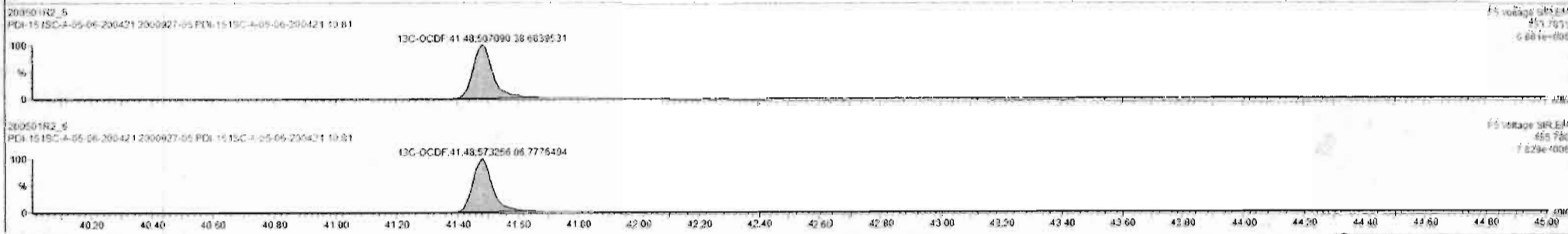
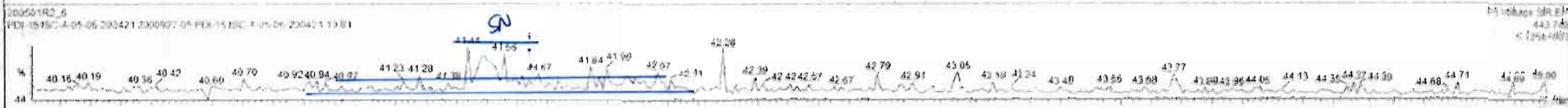
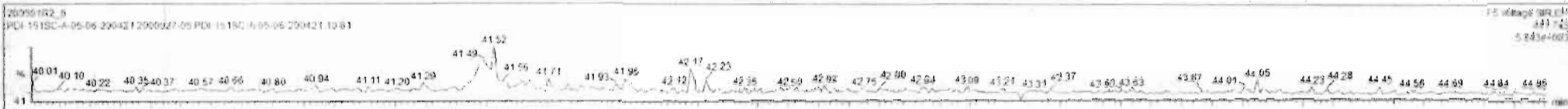
Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_6, Date: 01-May-2020, Time: 19:14:17, ID: 2000927-05 PDI-151SC-A-05-06-200421 10.81, Description: PDI-151SC-A-05-06-200421



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
17 OCDF			NO	0.6021	9.999					0.0864	
18 13C-2,3,7,8-TCDD	1.17e6	0.80	NO	1.1556	9.999	25.99	1.027	163	81.4	3.226	
19 13C-1,2,3,7,8-PeCDD	5.50e5	0.64	NO	0.8472	9.999	31.09	1.226	180	90.1	0.230	
20 13C-1,2,3,4,7,8-HxCDD	7.14e5	1.29	NO	0.7496	9.999	34.40	1.014	166	83.2	0.513	
21 13C-1,2,3,6,7,8-HxCDD	9.53e5	1.26	NO	0.9630	9.999	34.56	1.017	173	86.4	0.400	

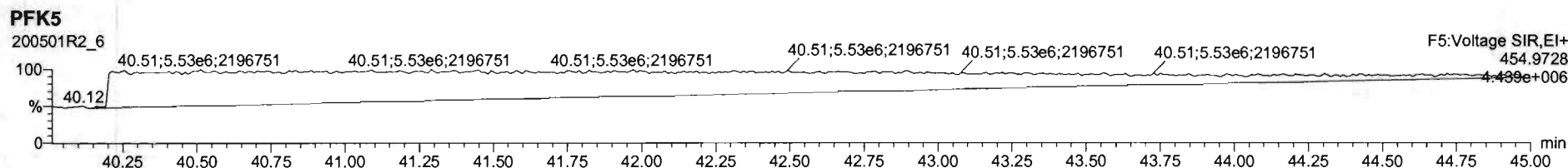
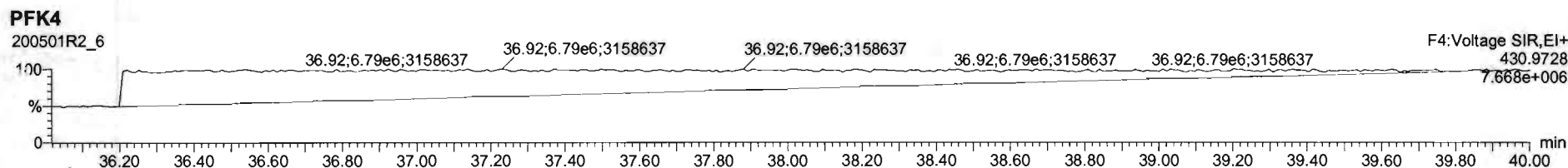
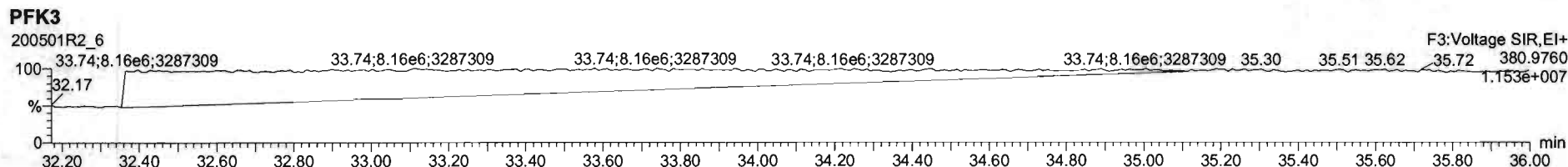
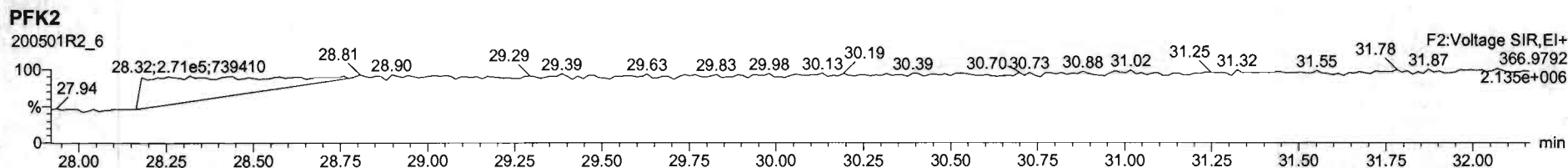
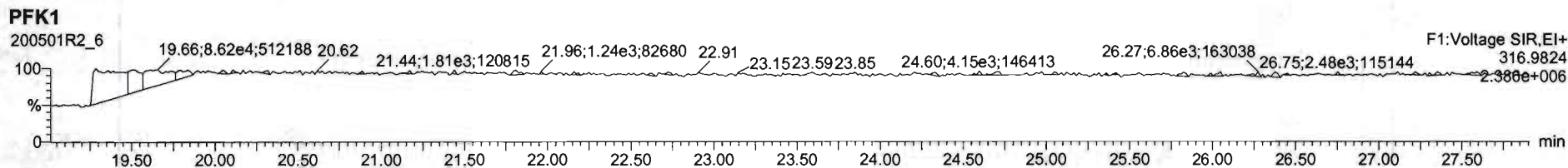
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_6, Date: 01-May-2020, Time: 19:14:17, ID: 2000927-05 PDI-151SC-A-05-06-200421 10.81, Description: PDI-151SC-A-05-06-200421



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-7.qld

Last Altered: Saturday, May 02, 2020 10:31:29 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 10:33:17 AM Pacific Daylight Time

GRB 05/02/2020

C7 05/05/2020

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

Name: 200501R2\_7, Date: 01-May-2020, Time: 20:00:28, ID: 2000927-06 PDI-151SC-A-06-07-200421 11.02, Description: PDI-151SC-A-06-07-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.011	26.021		1.001				0.0676	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.011	31.101		1.001				0.0688	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.011	34.462		1.000				0.0562	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.011	34.559		1.000				0.0538	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.011	34.846		1.000				0.0639	
6	6 1,2,3,4,6,7,8-HpCDD	1.31e3	1.09	NO	0.898	10.011	38.329	38.34	1.000	1.001	0.40670		0.0916	0.407
7	7 OCDD	7.62e3	0.88	NO	0.933	10.011	41.322	41.32	1.000	1.000	2.9316		0.0915	2.93
8	8 2,3,7,8-TCDF			NO	0.787	10.011	25.072		1.001				0.0359	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.011	29.803		1.001				0.0343	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.011	30.805		1.001				0.0319	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.011	33.600		1.000				0.0311	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.011	33.727		1.000				0.0293	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.011	34.316		1.001				0.0320	
14	14 1,2,3,7,8,9-HxCDF	2.45e2	1.78	YES	0.864	10.011	35.166	35.20	1.000	1.001	0.06068		0.0308	0.0491
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.011	36.949		1.001				0.0400	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.011	38.904		1.000				0.0555	
17	17 OCDF			NO	0.802	10.011	41.492		1.000				0.0735	
18	18 13C-2,3,7,8-TCDD	1.11e6	0.78	NO	1.16	10.011	25.984	25.99	1.026	1.027	143.19	71.7	0.185	
19	19 13C-1,2,3,7,8-PeCDD	9.85e5	0.64	NO	0.847	10.011	31.068	31.08	1.227	1.228	174.44	87.3	0.271	
20	20 13C-1,2,3,4,7,8-HxCDD	7.82e5	1.28	NO	0.750	10.011	34.463	34.45	1.014	1.014	156.70	78.4	0.458	
21	21 13C-1,2,3,6,7,8-HxCDD	1.02e6	1.28	NO	0.963	10.011	34.575	34.56	1.017	1.017	159.41	79.8	0.356	
22	22 13C-1,2,3,7,8,9-HxCDD	9.13e5	1.21	NO	0.838	10.011	34.844	34.84	1.025	1.025	163.91	82.0	0.410	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.17e5	1.07	NO	0.641	10.011	38.331	38.32	1.128	1.128	168.07	84.1	0.385	
24	24 13C-OCDD	1.11e6	0.90	NO	0.586	10.011	41.321	41.32	1.216	1.216	285.17	71.4	0.464	
25	25 13C-2,3,7,8-TCDF	1.41e6	0.79	NO	1.03	10.011	25.045	25.05	0.989	0.989	129.03	64.6	0.314	
26	26 13C-1,2,3,7,8-PeCDF	1.51e6	1.60	NO	0.845	10.011	29.759	29.78	1.176	1.176	168.86	84.5	0.452	
27	27 13C-2,3,4,7,8-PeCDF	1.46e6	1.60	NO	0.814	10.011	30.749	30.77	1.215	1.216	169.53	84.9	0.469	
28	28 13C-1,2,3,4,7,8-HxCDF	1.12e6	0.51	NO	1.00	10.011	33.603	33.60	0.989	0.989	167.98	84.1	0.489	
29	29 13C-1,2,3,6,7,8-HxCDF	1.30e6	0.51	NO	1.14	10.011	33.726	33.72	0.992	0.992	172.00	86.1	0.432	
30	30 13C-2,3,4,6,7,8-HxCDF	1.16e6	0.52	NO	1.02	10.011	34.293	34.28	1.009	1.009	170.85	85.5	0.480	
31	31 13C-1,2,3,7,8,9-HxCDF	9.29e5	0.51	NO	0.845	10.011	35.184	35.17	1.035	1.035	165.30	82.7	0.581	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-7.qld

Last Altered: Saturday, May 02, 2020 10:31:29 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 10:33:17 AM Pacific Daylight Time

Name: 200501R2\_7, Date: 01-May-2020, Time: 20:00:28, ID: 2000927-06 PDI-151SC-A-06-07-200421 11.02, Description: PDI-151SC-A-06-07-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.18e5	0.43	NO	0.771	10.011	36.913	36.91	1.086	1.086	179.04	89.6	0.485	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.58e5	0.44	NO	0.482	10.011	38.922	38.90	1.145	1.145	174.01	87.1	0.776	
34	34 13C-OCDF	1.28e6	0.94	NO	0.669	10.011	41.491	41.49	1.221	1.221	287.19	71.9	0.325	
35	35 37Cl-2,3,7,8-TCDD	4.69e5			1.10	10.011	26.015	26.00	1.028	1.027	64.089	80.2	0.0361	
36	36 13C-1,2,3,4-TCDD	1.33e6	0.80	NO	1.00	10.011	25.350	25.32	1.000	1.000	199.77	100	0.215	
37	37 13C-1,2,3,4-TCDF	2.11e6	0.79	NO	1.00	10.011	23.560	23.53	1.000	1.000	199.77	100	0.325	
38	38 13C-1,2,3,4,6,9-HxCDF	1.33e6	0.51	NO	1.00	10.011	34.000	33.98	1.000	1.000	199.77	100	0.491	
39	39 Total Tetra-Dioxins				0.947	10.011	24.620		0.000				0.0397	
40	40 Total Penta-Dioxins				0.942	10.011	29.960		0.000				0.0286	
41	41 Total Hexa-Dioxins				0.915	10.011	33.635		0.000		0.55872		0.0605	0.559
42	42 Total Hepta-Dioxins				0.898	10.011	37.640		0.000		1.2179		0.0916	1.22
43	43 Total Tetra-Furans				0.787	10.011	23.610		0.000				0.0149	
44	44 1st Func. Penta-Furans				0.910	10.011	27.090		0.000				0.00670	
45	45 Total Penta-Furans				0.910	10.011	29.275		0.000				0.0138	
46	46 Total Hexa-Furans				0.922	10.011	33.555		0.000		0.00000		0.0206	0.0677
47	47 Total Hepta-Furans				0.871	10.011	37.835		0.000				0.0250	

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Dataset: U:\VG12.PRO\Results\200501R2\200501R2-7.qld

Last Altered: Saturday, May 02, 2020 10:31:29 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 10:33:17 AM Pacific Daylight Time

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

Calibration: U:\VG12.PRO\CurveDB\1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200501R2\_7, Date: 01-May-2020, Time: 20:00:28, ID: 2000927-06 PDI-151SC-A-06-07-200421 11.02, Description: PDI-151SC-A-06-07-200421

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.894e4	1.486e4	9.906e2	7.802e2	1.27	NO	1.771e3	0.42733	0.42733	0.0605
2	Total Hexa-Dioxins	33.80	4.930e3	3.800e3	3.168e2	2.277e2	1.39	NO	5.444e2	0.13139	0.13139	0.0605

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.30	1.625e4	1.668e4	1.363e3	1.251e3	1.09	NO	2.614e3	0.8111e	0.8111e	0.0916
2	1,2,3,4,6,7,8-HpCDD	38.34	8.231e3	8.635e3	6.850e2	6.257e2	1.09	NO	1.311e3	0.40670	0.40670	0.0916

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-7.qld

Last Altered: Saturday, May 02, 2020 10:31:29 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 10:33:17 AM Pacific Daylight Time

Name: 200501R2\_7, Date: 04-May-2020, Time: 20:00:28, ID: 2000927-06 PDI-151SC-A-06-07-200421 11.02, Description: PDI-151SC-A-06-07-200421

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.20	3.450e3	2.594e3	1.569e2	8.800e1	1.78	YES	2.449e2	0.00000	0.049065	0.0308
2	Total Hexa-Furans	35.21	2.124e3	1.156e3	7.093e1	4.334e1	1.64	YES	0.000e0	0.00000	0.018647	0.0206

**Hepta-Furans**

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



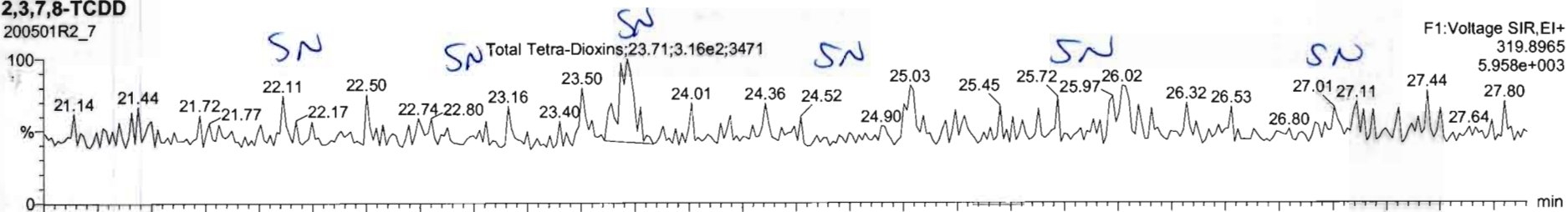
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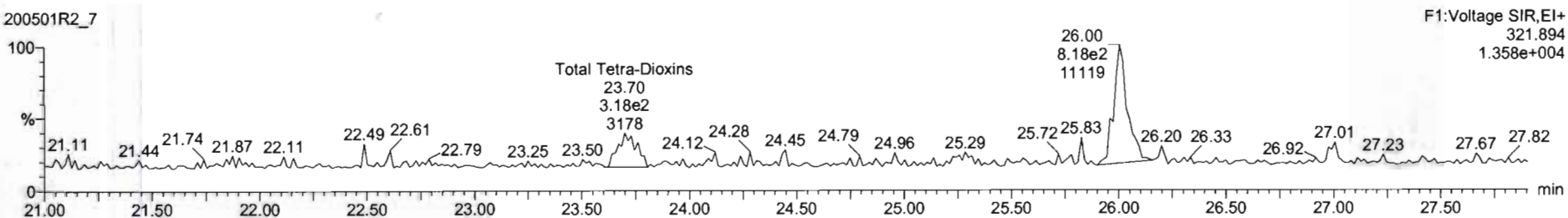
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2,3,7,8-TCDD

200501R2\_7

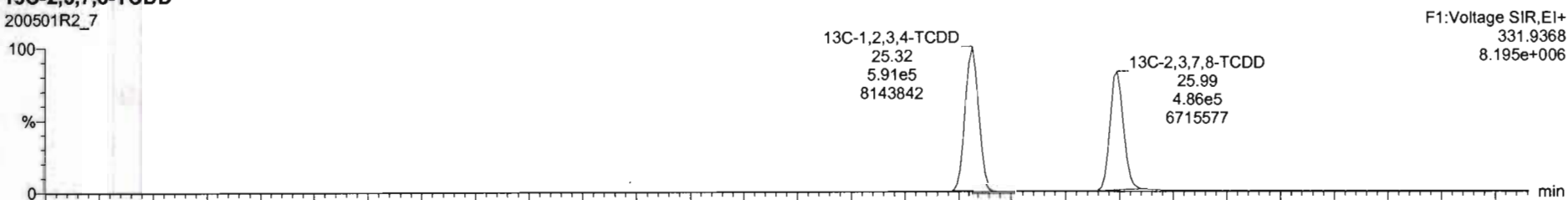


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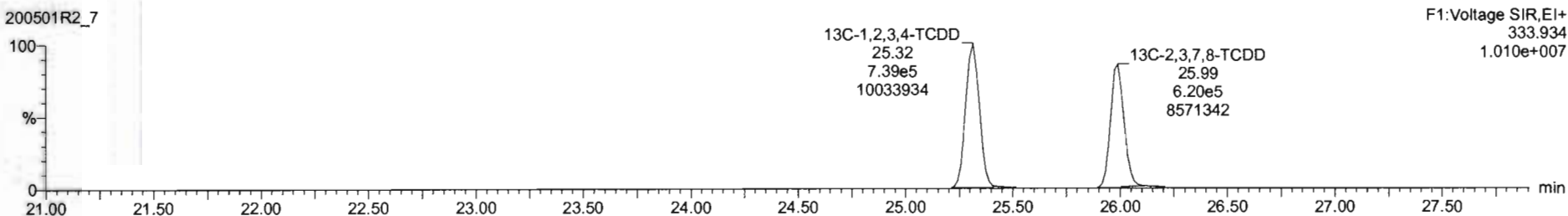


13C-2,3,7,8-TCDD

200501R2\_7



200501R2\_7



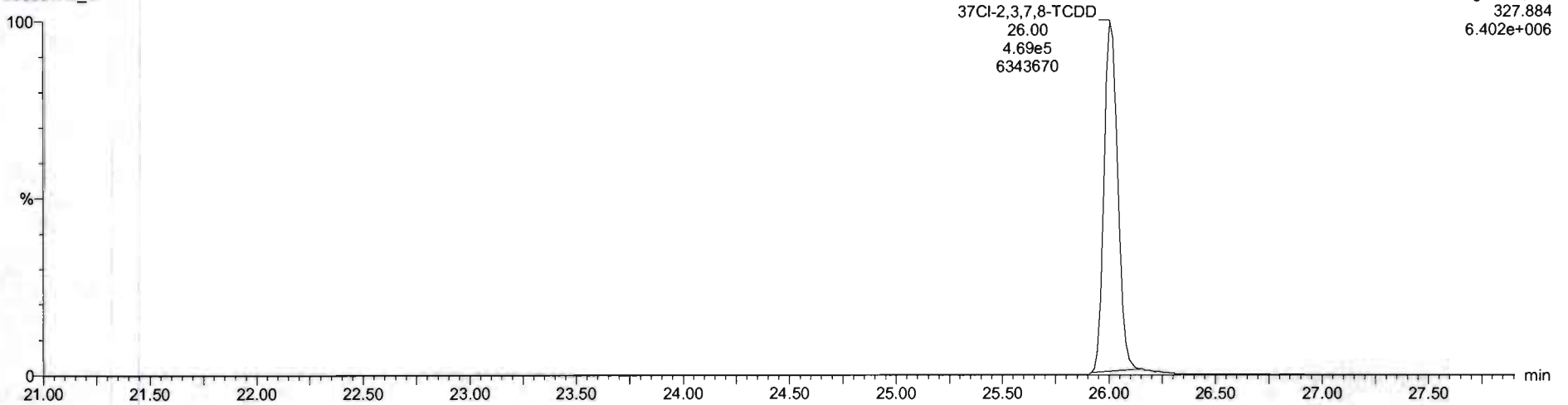
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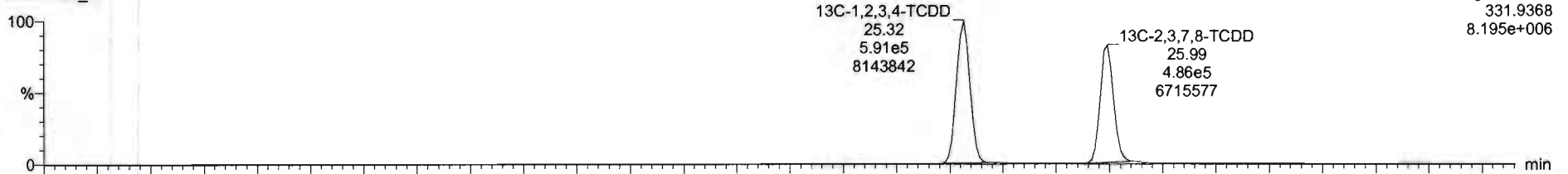
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200501R2\_7

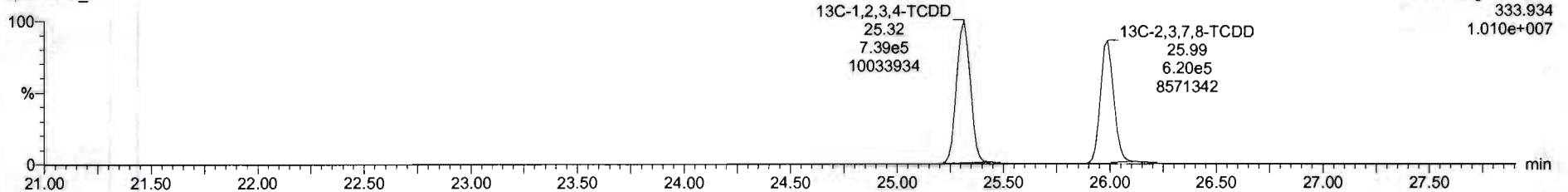


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200501R2\_7



200501R2\_7



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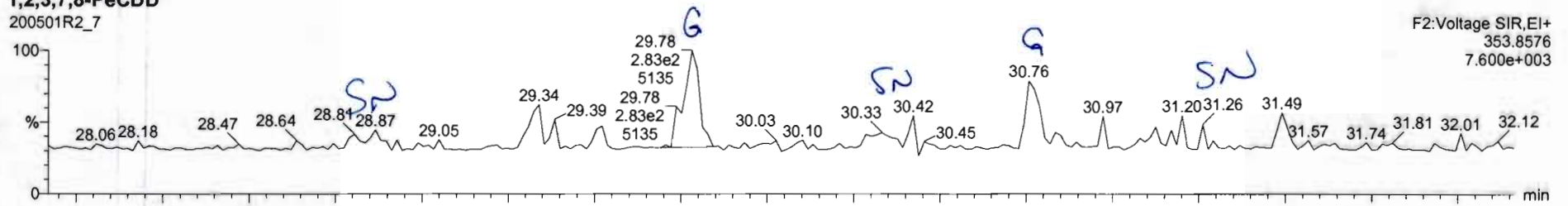
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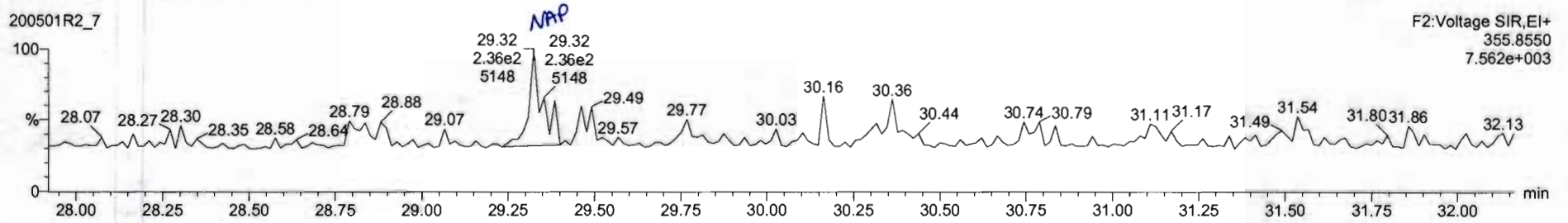
1,2,3,7,8-PeCDD

200501R2\_7



F2: Voltage SIR, EI+  
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7.600e+003

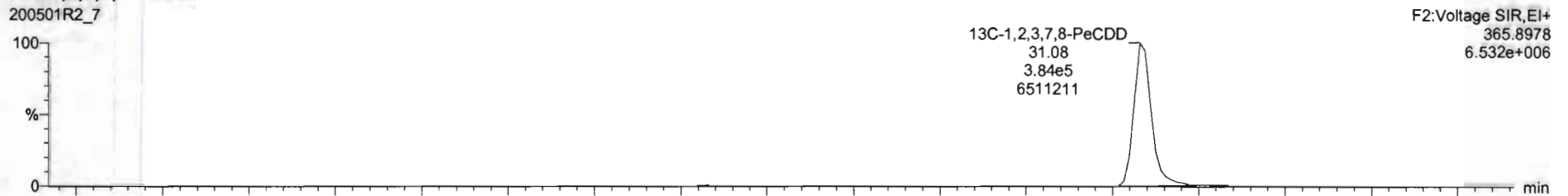
200501R2\_7



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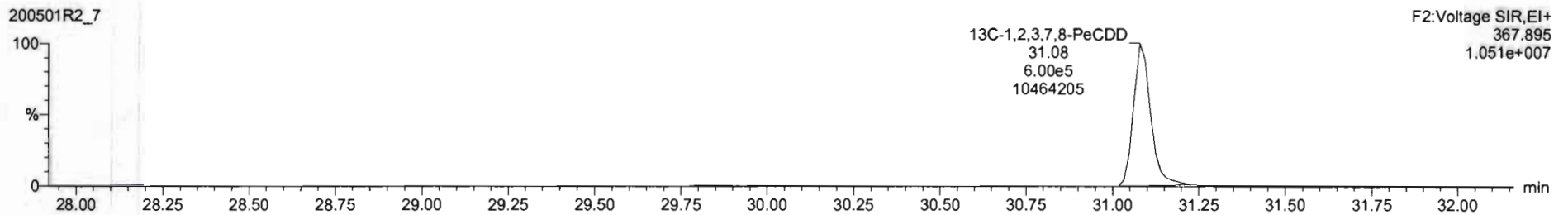
13C-1,2,3,7,8-PeCDD

200501R2\_7



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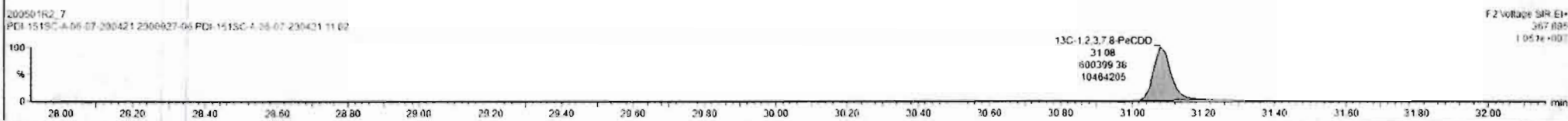
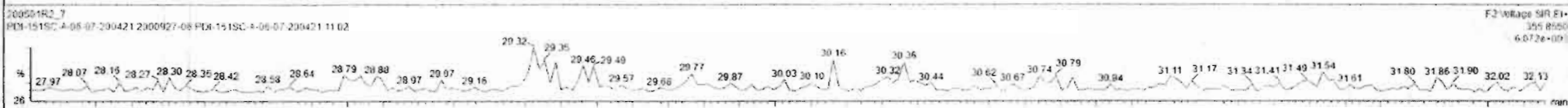
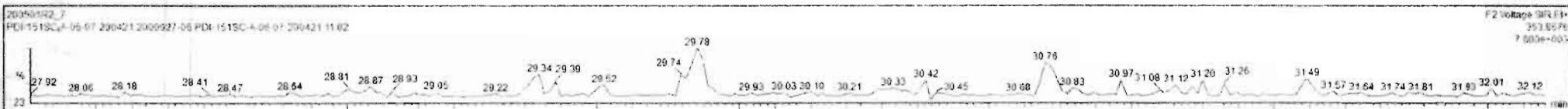
200501R2\_7



F2: Voltage SIR, EI+  
367.895  
1.051e+007

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.011					0.0397	
40 Total Penta-Dioxins				0.9425	10.011					0.0258	
41 Total Hexa-Dioxins				0.5145	10.011			0.565		0.565	
42 Total Hepta-Dioxins				0.8575	10.011			1.17		0.0909	1.17
43 Total Tetra-Furans				0.7871	10.011					0.0149	

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



Custom Reporting: Select reports to generate

200501R2\_7 CAP NUM

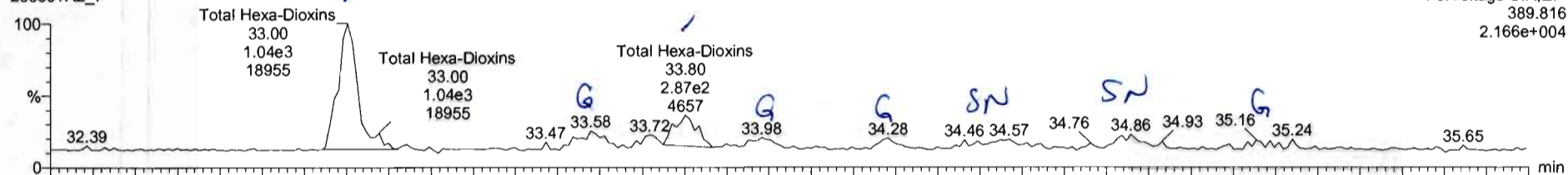
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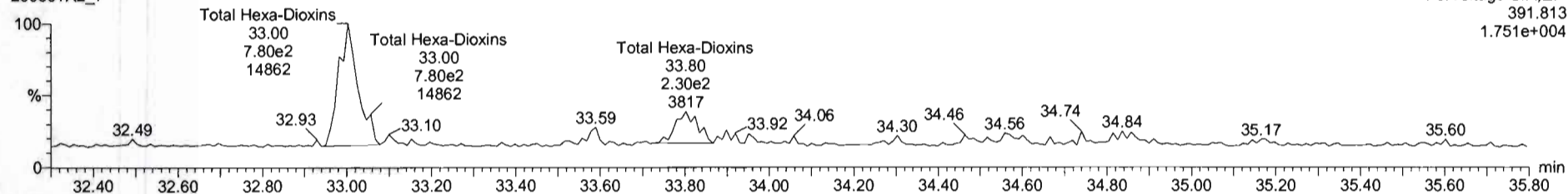
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1,2,3,4,7,8-HxCDD

200501R2\_7

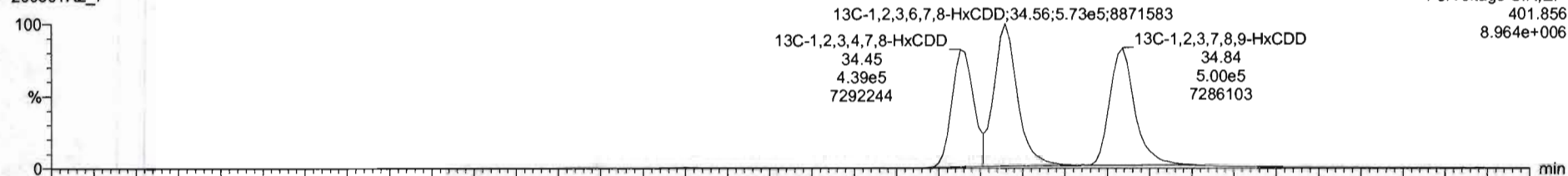


200501R2\_7

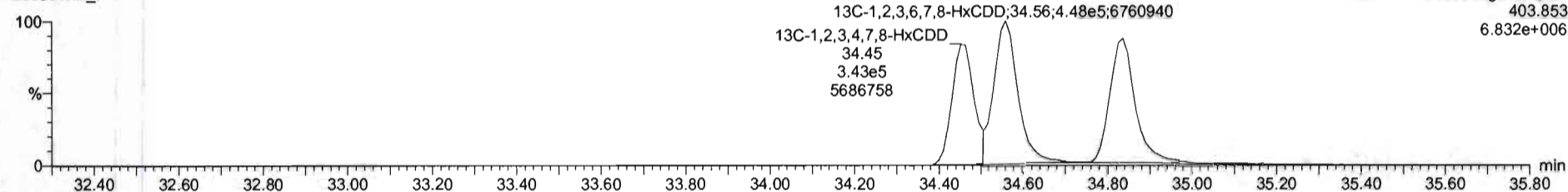


13C-1,2,3,4,7,8-HxCDD

200501R2\_7

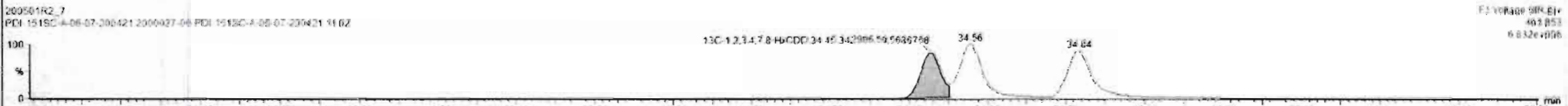
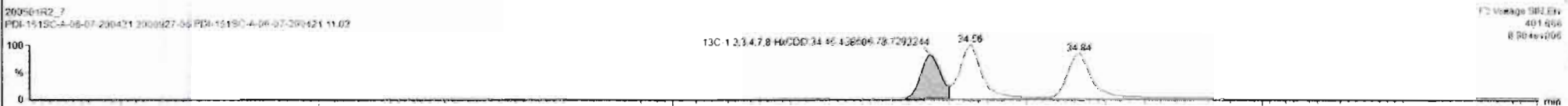
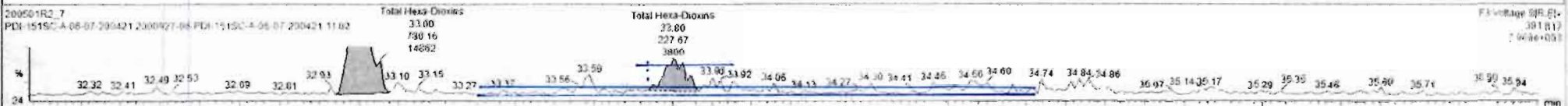
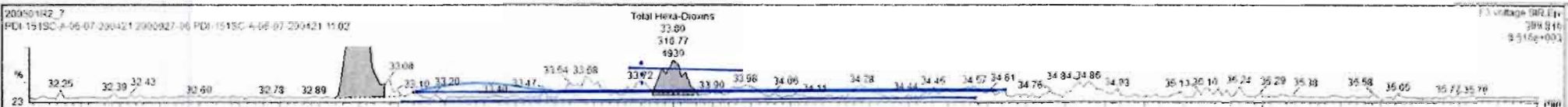


200501R2\_7



Name	Resp	RA	ivy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.011					0.0397	
40 Total Penta-Dioxins				0.8425	10.011					0.0286	
41 Total Hexa-Dioxins				0.9145	10.011			0.559		0.0605	0.559
42 Total Hepta-Dioxins				0.9975	10.011			1.17		0.0909	1.17
43 Total Tetra-Furans				0.7571	10.011					0.0149	

Name	RT	m1 Resp	m2 Resp	RA	ivy	EMPC	Conc
1 Total Hexa-Dioxins	33.80	3.168e2	2.277e2	1.79	NO	0.13139	0.13139
2 Total Hexa-Dioxins	33.00	9.906e2	7.802e2	1.27	NO	0.42773	0.42733



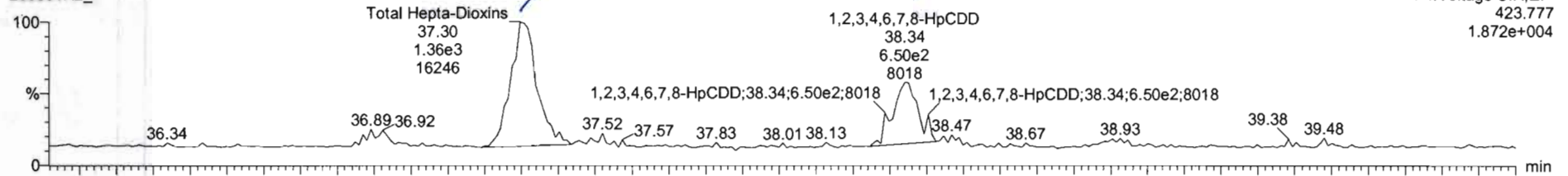
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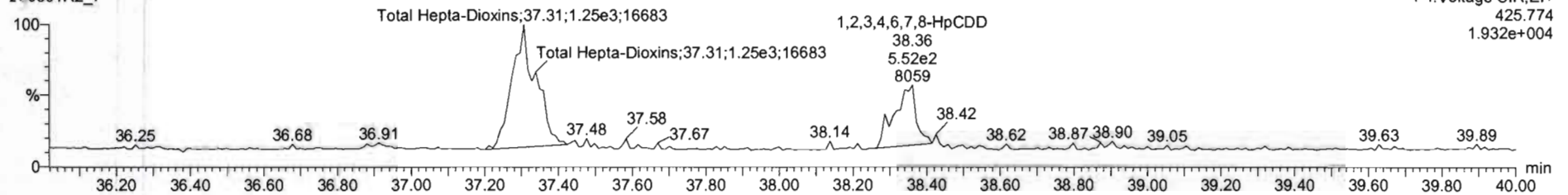
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1,2,3,4,6,7,8-HpCDD

200501R2\_7

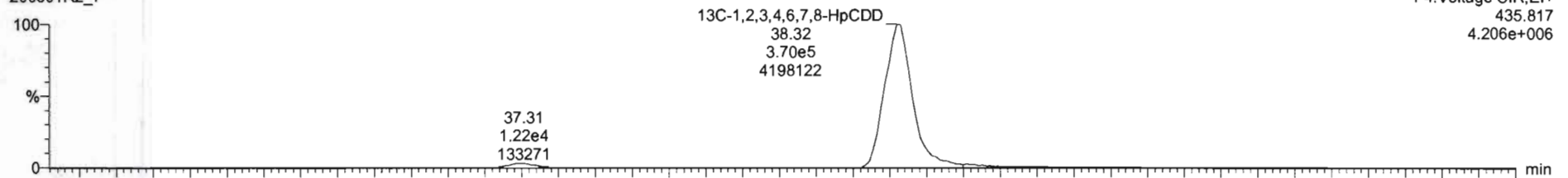


200501R2\_7

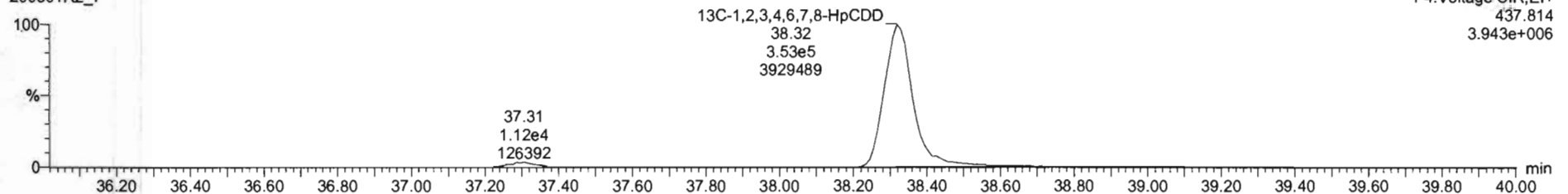


13C-1,2,3,4,6,7,8-HpCDD

200501R2\_7

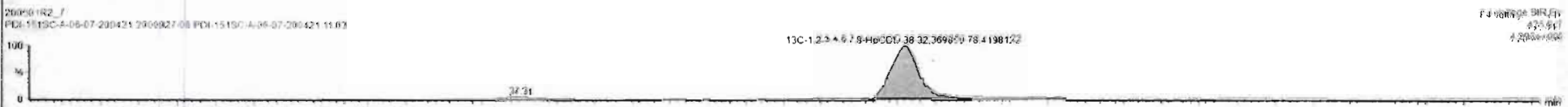
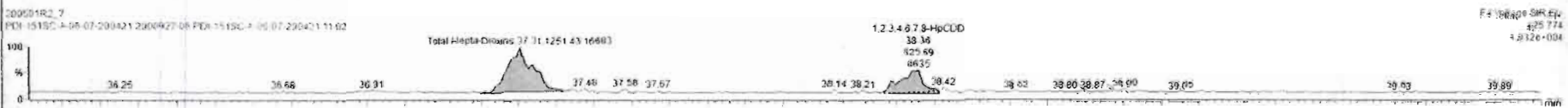
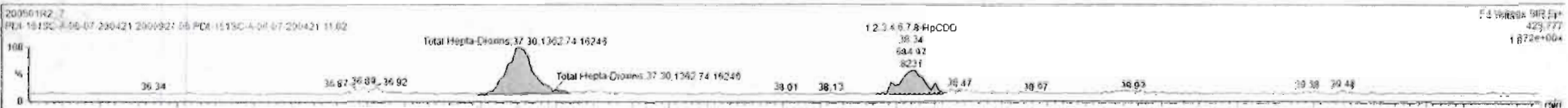


200501R2\_7



Name	Resp	RA	nfy	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.011					0.0397	
40 Total Penta-Dioxins				0.9425	10.011					0.0286	
41 Total Hexa-Dioxins				0.9145	10.011			0.558		0.0605	0.559
42 Total Hepta-Dioxins				0.6979	10.011			1.22		0.0916	1.22
43 Total Tetra-Furans				0.7871	10.011					0.0149	

Name	RT	m1 Resp	m2 Resp	RA	nfy	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.34	6.850e2	6.257e2	1.09	NO	0.40670	0.40679
2 Total Hepta-Dioxins	37.30	1.360e3	1.201e3	1.09	NO	0.01119	0.81119



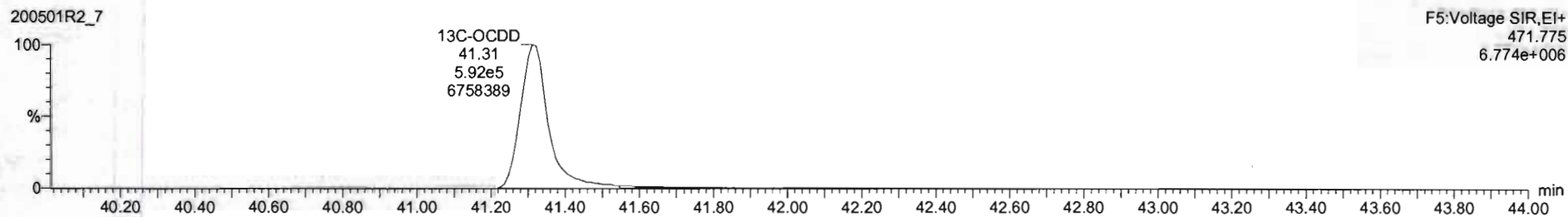
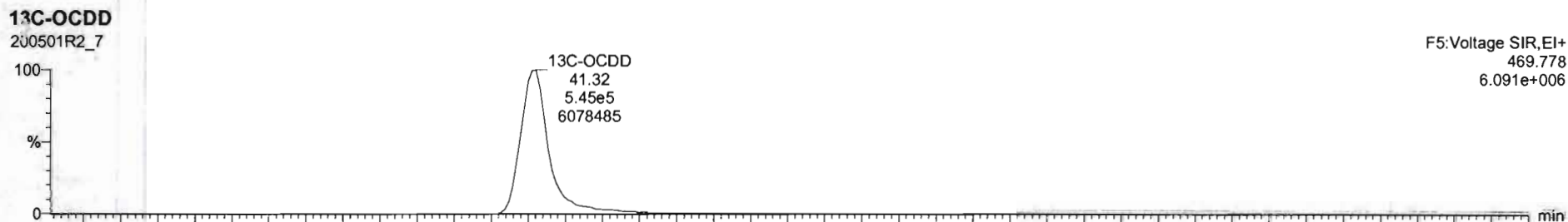
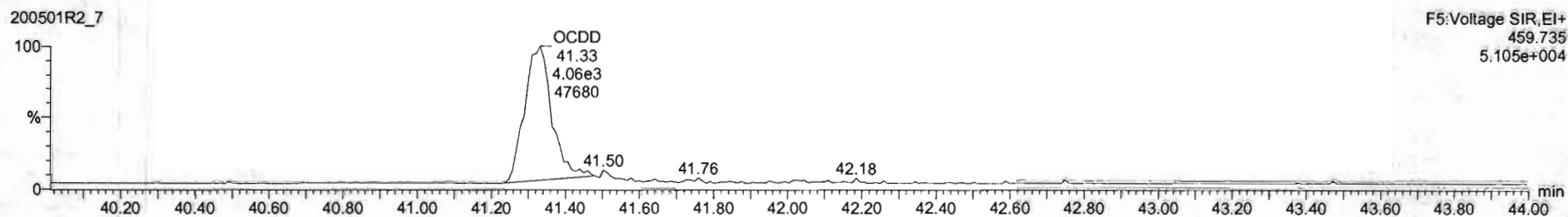
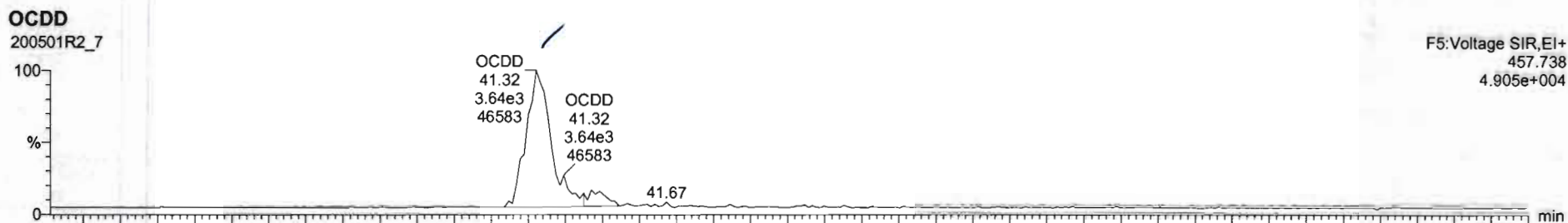


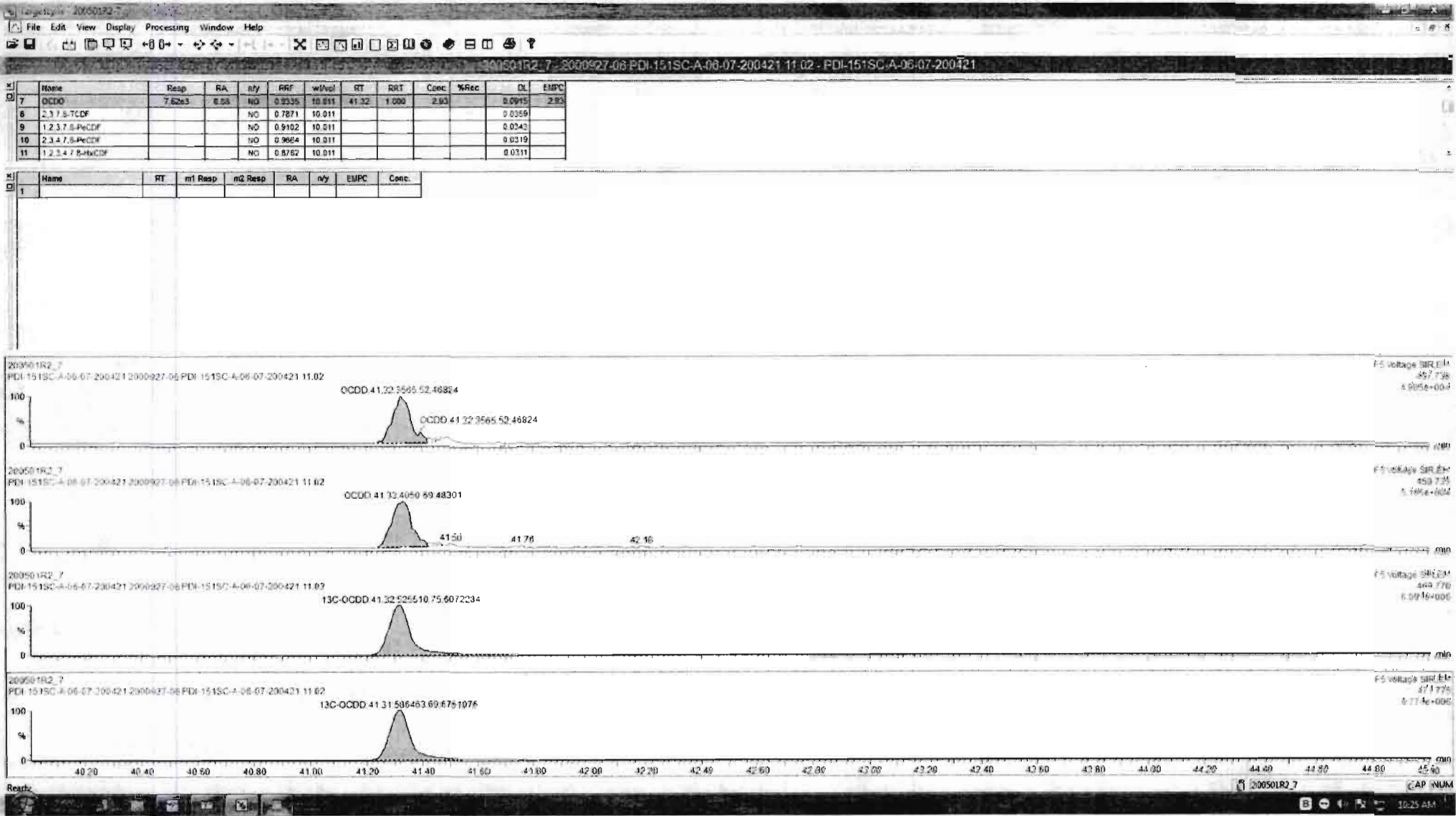
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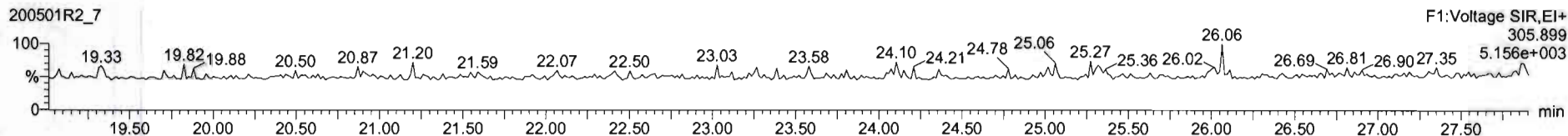
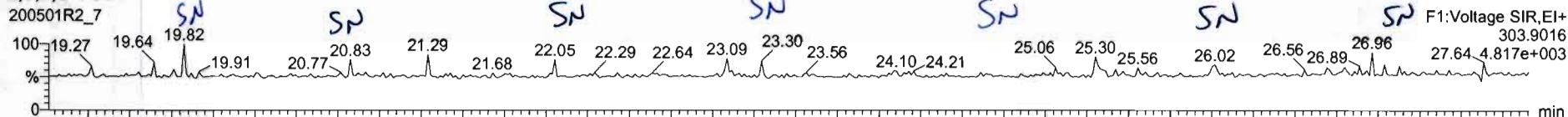


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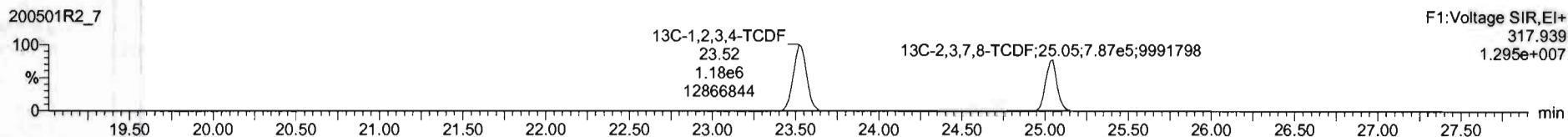
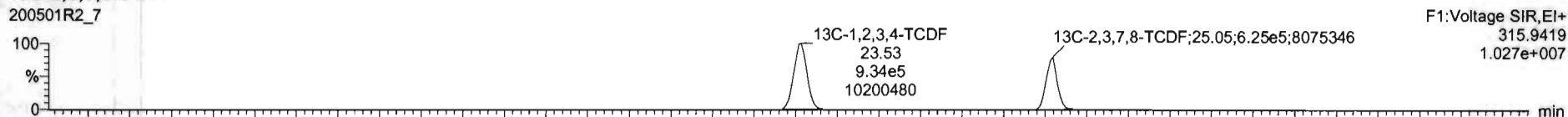
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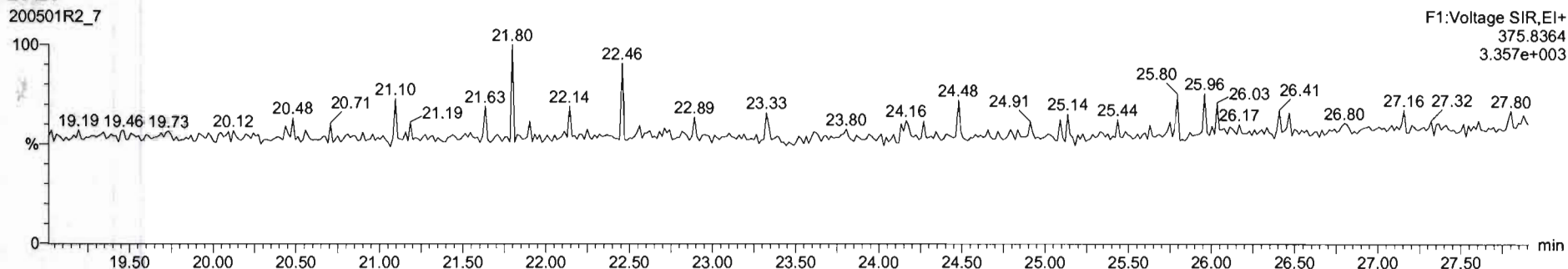
2,3,7,8-TCDF



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



DPE1



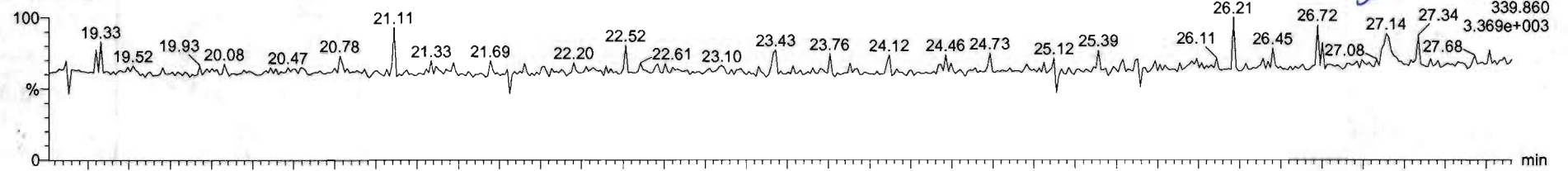
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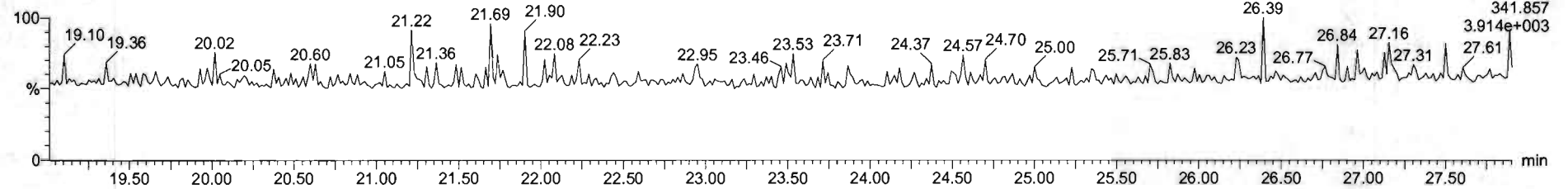
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1st Func. Penta-Furans

200501R2\_7

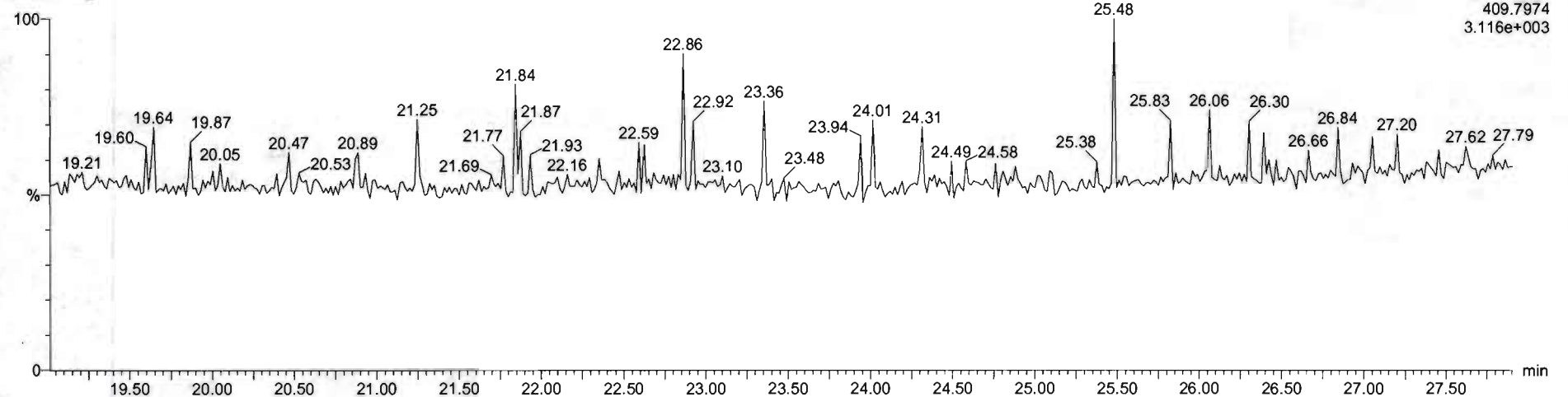


200501R2\_7



DPE6

200501R2\_7

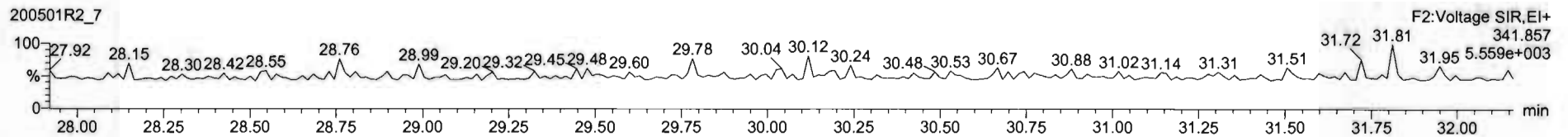
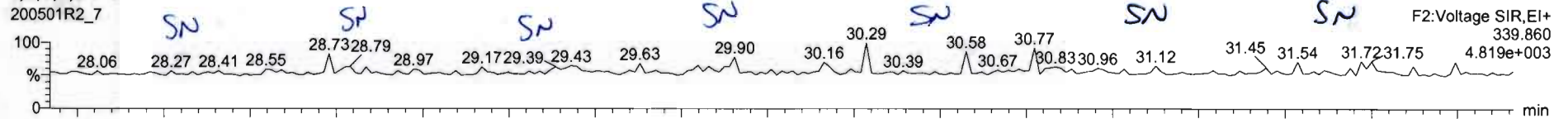


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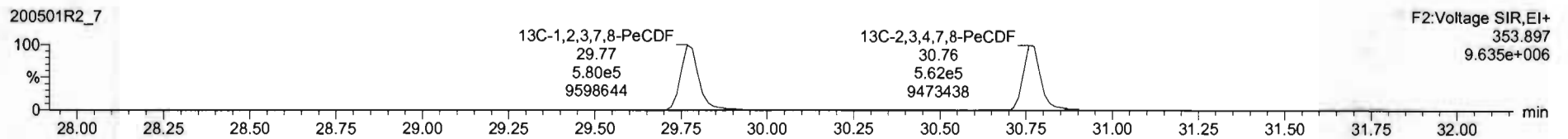
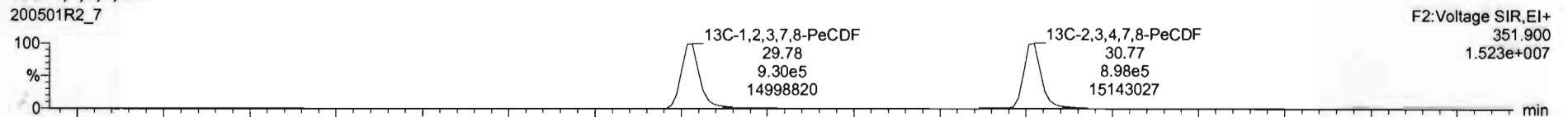
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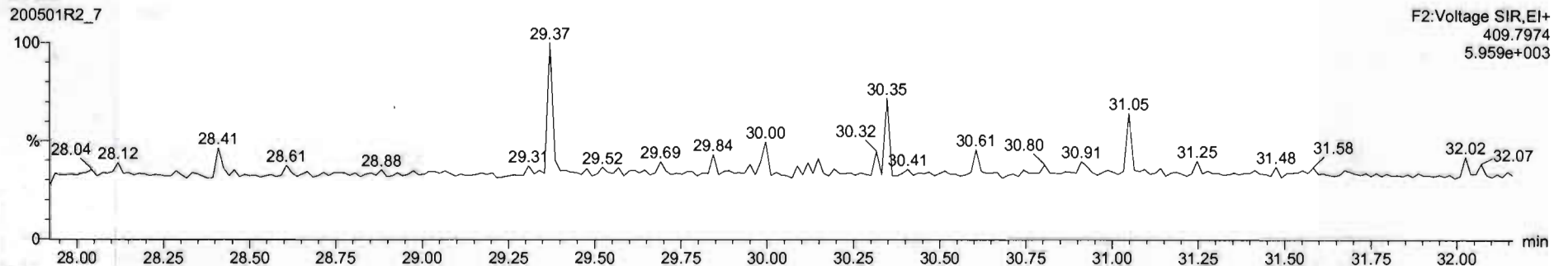
**1,2,3,7,8-PeCDF**



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



**DPE2**

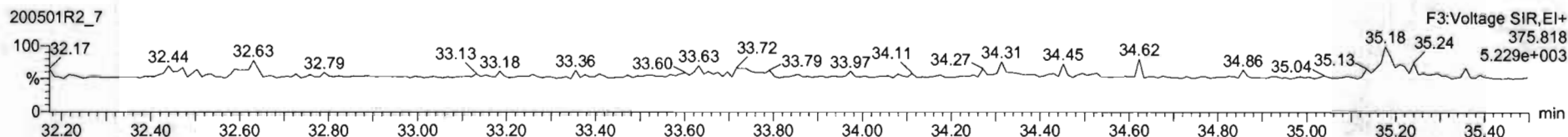
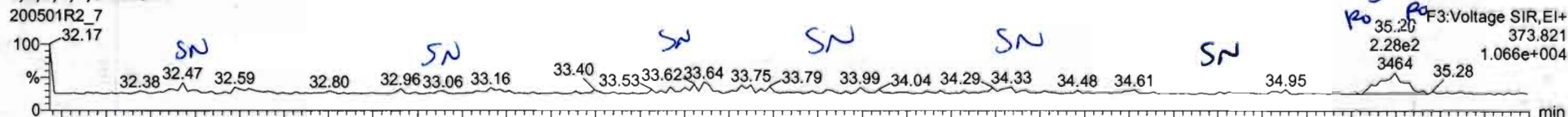


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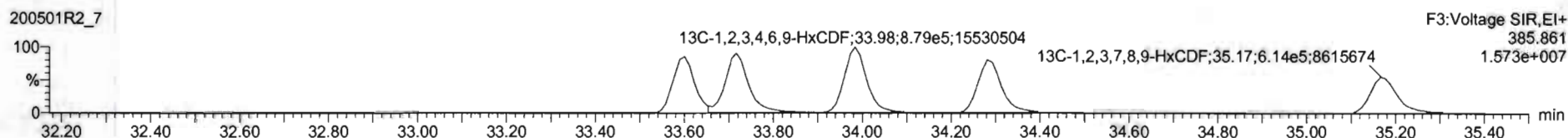
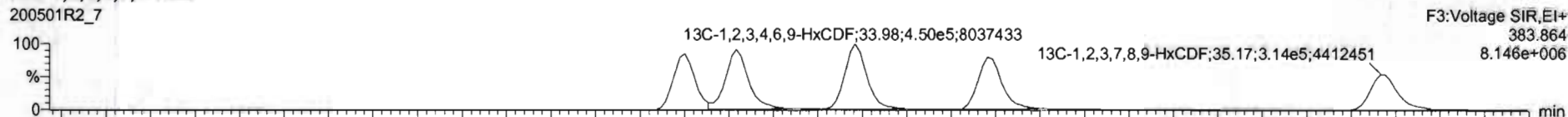
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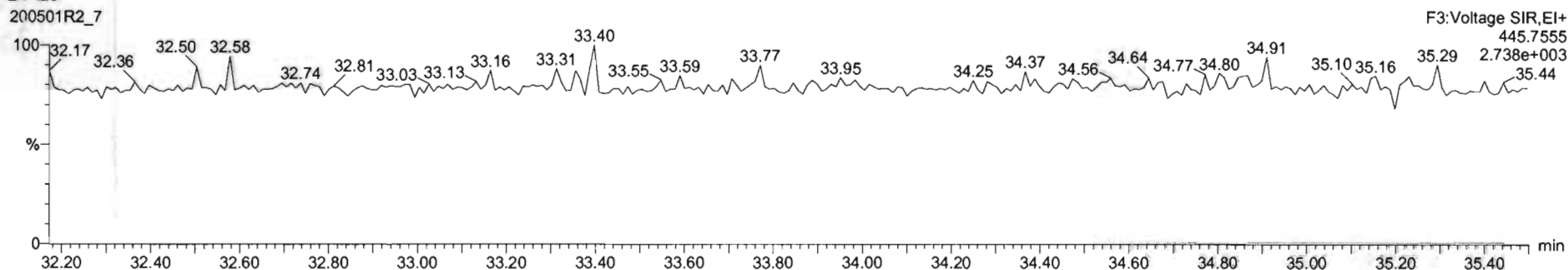
**1,2,3,4,7,8-HxCDF**



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

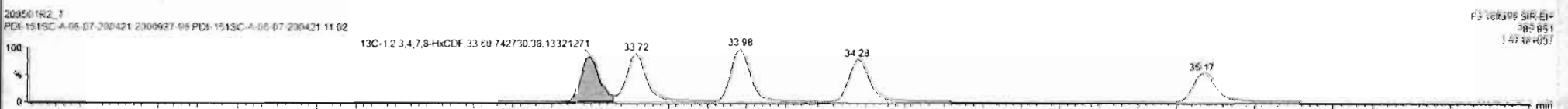
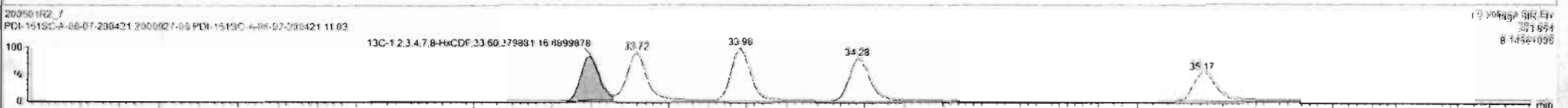
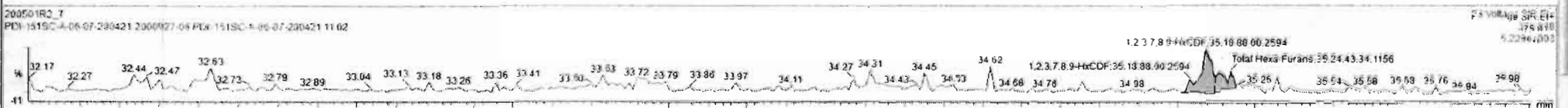
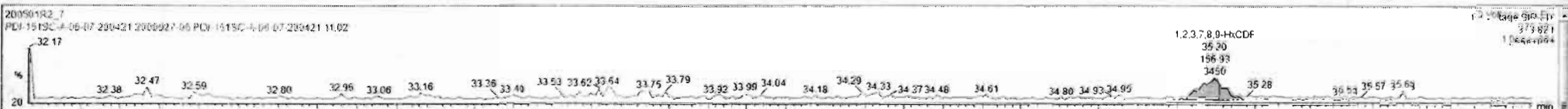


**DPE3**



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.011					0.0136	
46 Total Hexa-Furans				0.6217	10.011			0.000		0.0206	0.0677
47 Total Hepta-Furans				0.8712	10.011					0.0250	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8,9-HxCDF	35.20	1.569e2	8.800e1	1.78	YES	0.049065	0.00000
2 Total Hexa-Furans	35.21	7.052e1	4.334e1	1.64	YES	0.018647	0.00000

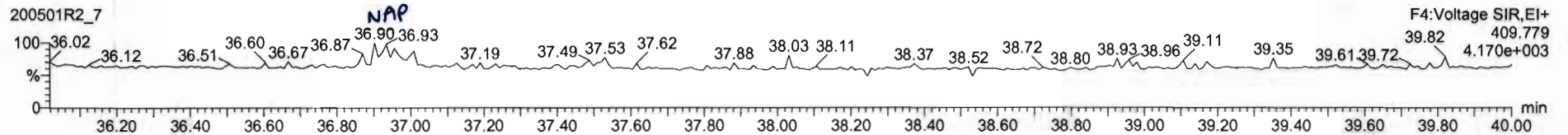
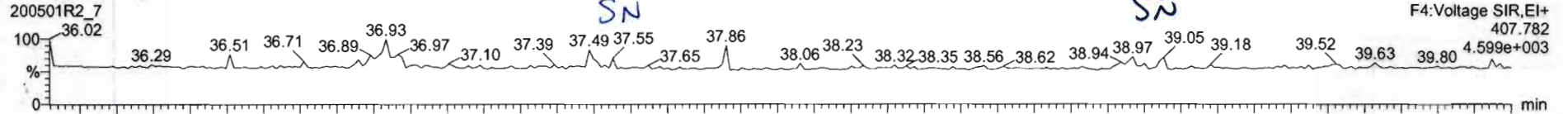


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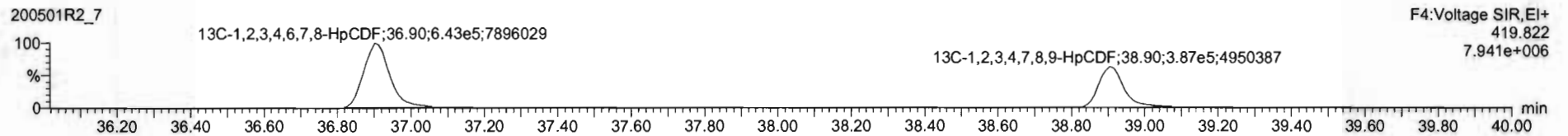
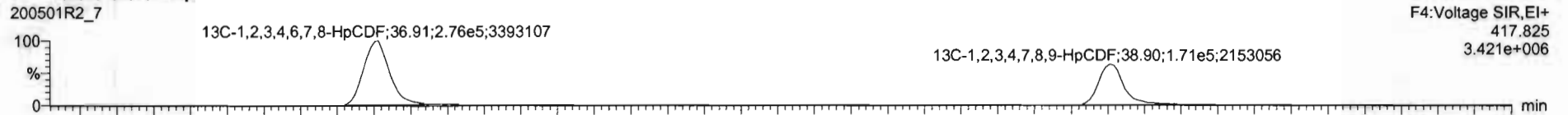
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_7, Date: 01-May-2020, Time: 20:00:28, ID: 2000927-06 PDI-151SC-A-06-07-200421 11.02, Description: PDI-151SC-A-06-07-200421

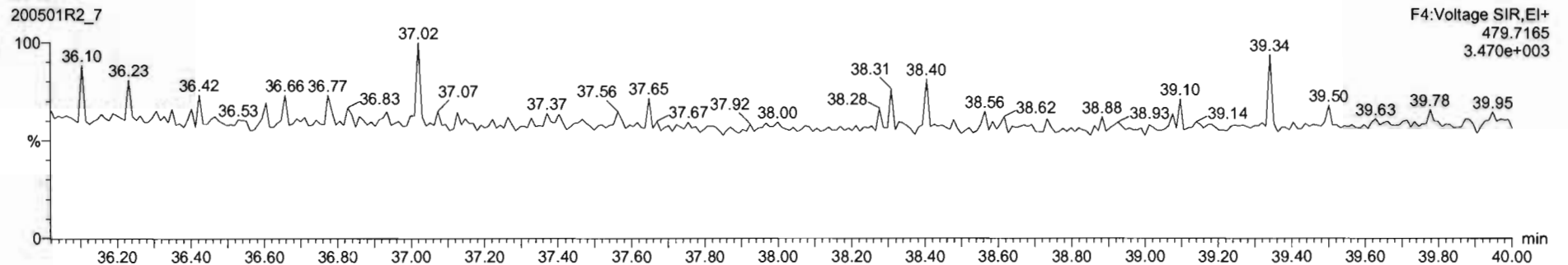
1,2,3,4,6,7,8-HpCDF



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



DPE4

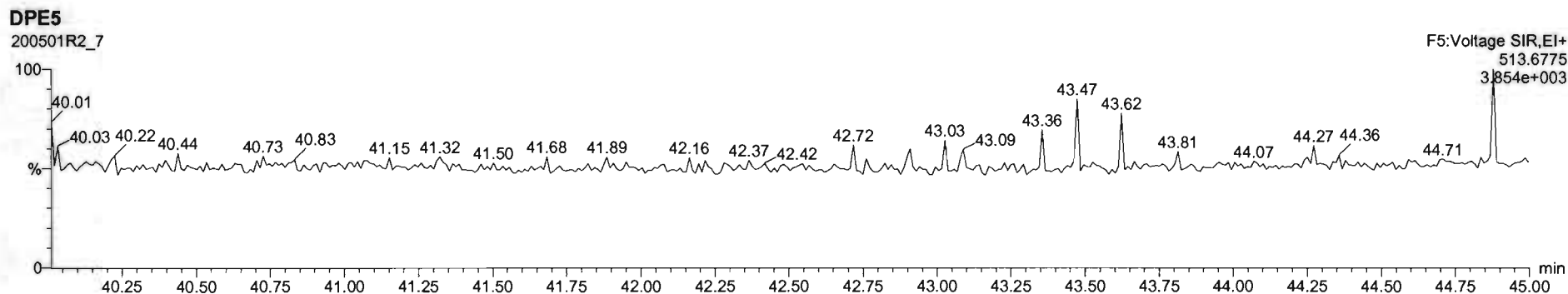
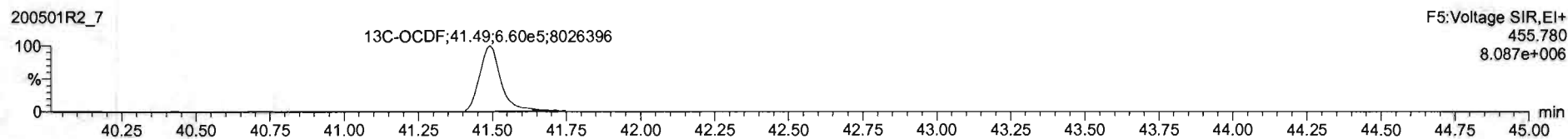
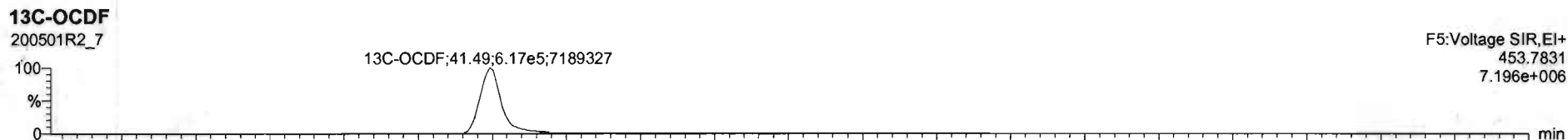
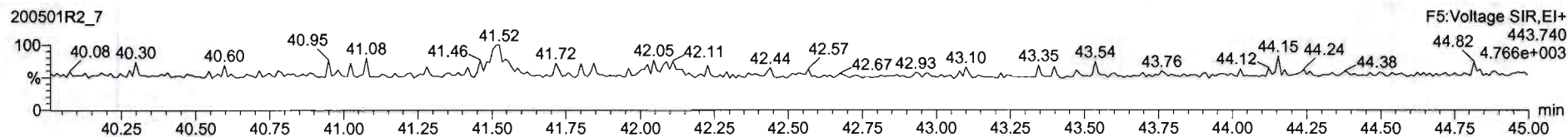
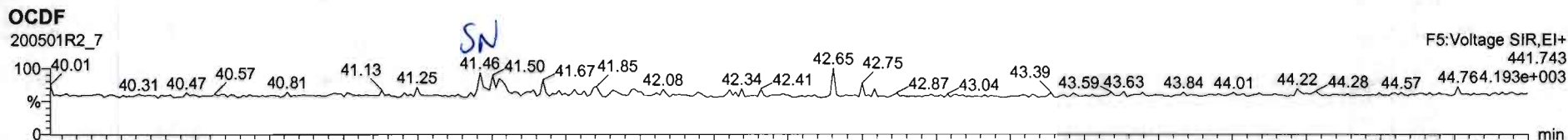




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Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

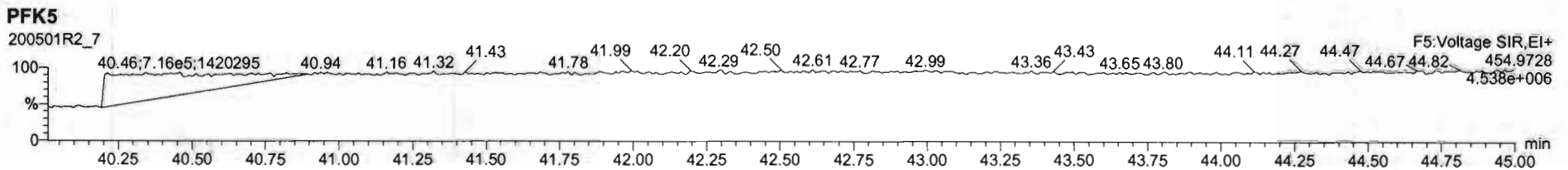
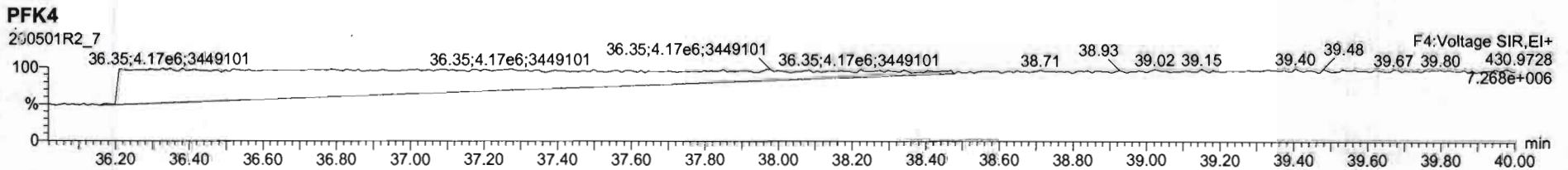
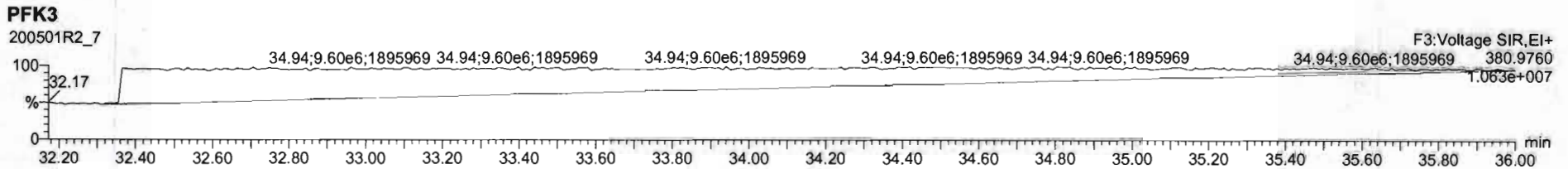
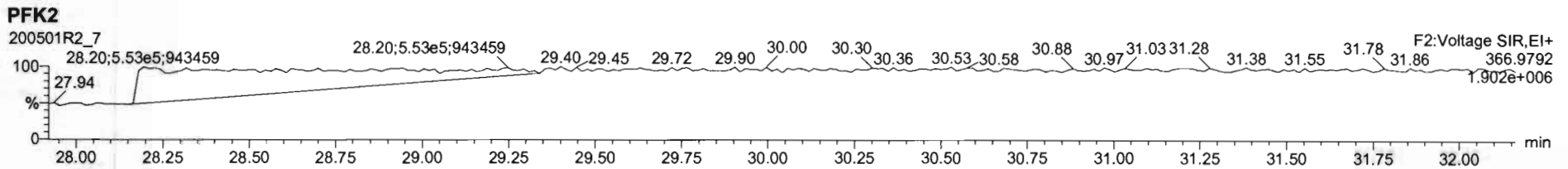
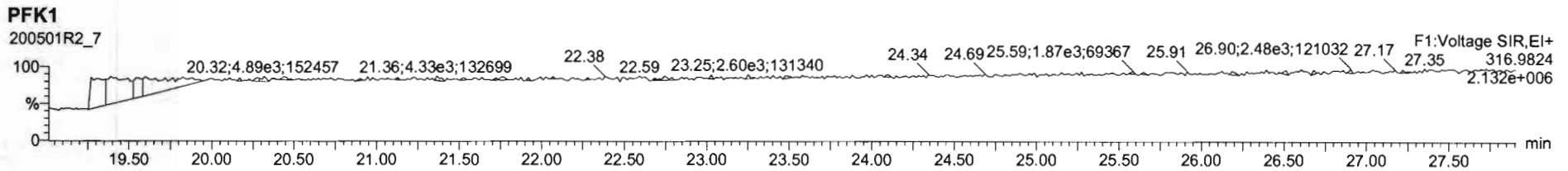
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Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
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Name: 200501R2\_7, Date: 01-May-2020, Time: 20:00:28, ID: 2000927-06 PDI-151SC-A-06-07-200421 11.02, Description: PDI-151SC-A-06-07-200421



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-8.qld

Last Altered: Saturday, May 02, 2020 10:38:12 Pacific Daylight Time

Printed: Saturday, May 02, 2020 10:39:48 Pacific Daylight Time

*H 5-2-2020*

*07 05/05/2020*

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

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

Name: 200501R2\_8, Date: 01-May-2020, Time: 20:46:39, ID: 2000927-07 PDI-151SC-A-07-08-200421 11.92, Description: PDI-151SC-A-07-08-200421, Task: ST200501R2\_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPG
1	2,3,7,8-TCDD			NO	0.947	10.057					0.0585	
2	1,2,3,7,8-PeCDD			NO	0.942	10.057					0.0719	
3	1,2,3,4,7,8-HxCDD			NO	1.06	10.057					0.0544	
4	1,2,3,6,7,8-HxCDD			NO	0.915	10.057					0.0563	
5	1,2,3,7,8,9-HxCDD			NO	0.915	10.057					0.0639	
6	1,2,3,4,6,7,8-HpCDD	1.75e3	1.12	NO	0.898	10.057	38.36	1.001	0.56638		0.131	0.566
7	OCDD	1.06e4	0.88	NO	0.933	10.057	41.32	1.000	4.5966		0.135	4.60
8	2,3,7,8-TCDF			NO	0.787	10.057					0.0374	
9	1,2,3,7,8-PeCDF			NO	0.910	10.057					0.0321	
10	2,3,4,7,8-PeCDF			NO	0.966	10.057					0.0279	
11	1,2,3,4,7,8-HxCDF			NO	0.878	10.057					0.0308	
12	1,2,3,6,7,8-HxCDF			NO	0.874	10.057					0.0298	
13	2,3,4,6,7,8-HxCDF			NO	0.922	10.057					0.0306	
14	1,2,3,7,8,9-HxCDF			NO	0.864	10.057					0.0515	
15	1,2,3,4,6,7,8-HpCDF			NO	0.871	10.057					0.0482	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.057					0.0657	
17	OCDF			NO	0.802	10.057					0.0770	
18	13C-2,3,7,8-TCDD	1.12e6	0.78	NO	1.16	10.057	25.99	1.027	143.42	72.1	0.209	
19	13C-1,2,3,7,8-PeCDD	9.59e5	0.64	NO	0.847	10.057	31.09	1.228	168.51	84.7	0.370	
20	13C-1,2,3,4,7,8-HxCDD	7.62e5	1.28	NO	0.750	10.057	34.46	1.014	155.97	78.4	0.327	
21	13C-1,2,3,6,7,8-HxCDD	9.88e5	1.26	NO	0.963	10.057	34.57	1.017	157.61	79.3	0.255	
22	13C-1,2,3,7,8,9-HxCDD	8.80e5	1.26	NO	0.838	10.057	34.85	1.025	161.30	81.1	0.293	
23	13C-1,2,3,4,6,7,8-HpCDD	6.85e5	1.04	NO	0.641	10.057	38.33	1.128	163.87	82.4	0.358	
24	13C-OCDD	9.87e5	0.89	NO	0.586	10.057	41.31	1.215	258.48	65.0	0.503	
25	13C-2,3,7,8-TCDF	1.51e6	0.78	NO	1.03	10.057	25.05	0.989	137.78	69.3	0.325	
26	13C-1,2,3,7,8-PeCDF	1.47e6	1.59	NO	0.845	10.057	29.78	1.176	163.86	82.4	0.394	
27	13C-2,3,4,7,8-PeCDF	1.41e6	1.59	NO	0.814	10.057	30.77	1.216	164.09	82.5	0.409	
28	13C-1,2,3,4,7,8-HxCDF	1.10e6	0.52	NO	1.00	10.057	33.61	0.989	167.46	84.2	0.540	
29	13C-1,2,3,6,7,8-HxCDF	1.28e6	0.51	NO	1.14	10.057	33.73	0.992	173.06	87.0	0.478	
30	13C-2,3,4,6,7,8-HxCDF	1.15e6	0.52	NO	1.02	10.057	34.29	1.009	172.16	86.6	0.531	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-8.qld

Last Altered: Saturday, May 02, 2020 10:38:12 Pacific Daylight Time

Printed: Saturday, May 02, 2020 10:39:48 Pacific Daylight Time

Name: 200501R2\_8, Date: 01-May-2020, Time: 20:46:39, ID: 2000927-07 PDI-151SC-A-07-08-200421 11.92, Description: PDI-151SC-A-07-08-200421, Task: ST200501R2\_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	9.03e5	0.54	NO	0.845	10.057	35.19	1.035	164.06	82.5	0.643	
32	13C-1,2,3,4,6,7,8-HpCDF	9.05e5	0.43	NO	0.771	10.057	36.90	1.086	180.15	90.6	0.540	
33	13C-1,2,3,4,7,8,9-HpCDF	5.34e5	0.44	NO	0.482	10.057	38.92	1.145	170.15	85.6	0.863	
34	13C-OCDF	1.24e6	0.91	NO	0.669	10.057	41.49	1.221	284.28	71.5	0.299	
35	37Cl-2,3,7,8-TCDD	4.71e5			1.10	10.057	26.02	1.028	63.905	80.3	0.0462	
36	13C-1,2,3,4-TCDD	1.34e6	0.79	NO	1.00	10.057	25.32	1.000	198.86	100	0.242	
37	13C-1,2,3,4-TCDF	2.10e6	0.79	NO	1.00	10.057	23.53	1.000	198.86	100	0.336	
38	13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.00	10.057	33.99	1.000	198.86	100	0.543	
39	Total Tetra-Dioxins				0.947	10.057			0.00000		0.0369	0.0988
40	Total Penta-Dioxins				0.942	10.057			0.00000		0.0371	0.114
41	Total Hexa-Dioxins				0.915	10.057			0.72240		0.0609	0.722
42	Total Hepta-Dioxins				0.898	10.057			1.6726		0.131	1.67
43	Total Tetra-Furans				0.787	10.057					0.0157	
44	1st Func. Penta-Furans				0.910	10.057					0.00680	
45	Total Penta-Furans				0.910	10.057					0.0132	
46	Total Hexa-Furans				0.922	10.057					0.0181	
47	Total Hepta-Furans				0.871	10.057					0.0321	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-8.qld  
 Last Altered: Saturday, May 02, 2020 10:38:12 Pacific Daylight Time  
 Printed: Saturday, May 02, 2020 10:39:48 Pacific Daylight Time

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

Name: 200501R2\_8, Date: 01-May-2020, Time: 20:46:39, ID: 2000927-07 PDI-151SC-A-07-08-200421 11.92, Description: PDI-151SC-A-07-08-200421,  
 Task: ST200501R2\_2

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Dioxins	23.73	4.484e3	5.054e3	3.141e2	2.971e2	1.06	YES	0.000e0	0.00000	0.098847	0.0585

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Dioxins	29.37	1.809e3	5.966e3	1.086e2	3.619e2	0.30	YES	0.000e0	0.00000	0.061848	0.0371
2 Total Penta-Dioxins	30.39	1.688e3	2.861e3	9.094e1	2.029e2	0.45	YES	0.000e0	0.00000	0.051797	0.0371

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	33.01	2.264e4	1.610e4	1.153e3	9.047e2	1.27	NO	2.057e3	0.51034	0.51034	0.0609
2 Total Hexa-Dioxins	33.81	7.268e3	5.775e3	4.743e2	3.806e2	1.25	NO	8.549e2	0.21205	0.21205	0.0609

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	37.33	2.274e4	2.106e4	1.723e3	1.696e3	1.02	NO	3.419e3	1.1062	1.1062	0.131
2 1,2,3,4,6,7,8-HpCDD	38.36	1.224e4	1.034e4	9.245e2	8.263e2	1.12	NO	1.751e3	0.56638	0.56638	0.131

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-8.qld  
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Name: 200501R2\_8, Date: 01-May-2020, Time: 20:46:39, ID: 2000927-07 PDI-151SC-A-07-08-200421 11.92, Description: PDI-151SC-A-07-08-200421,  
Task: ST200501R2\_2

**Penta-Furans**

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

**Hexa-Furans**

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

**Hepta-Furans**

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

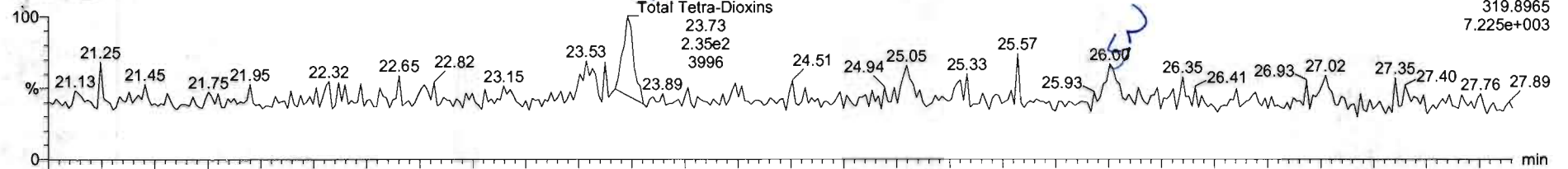
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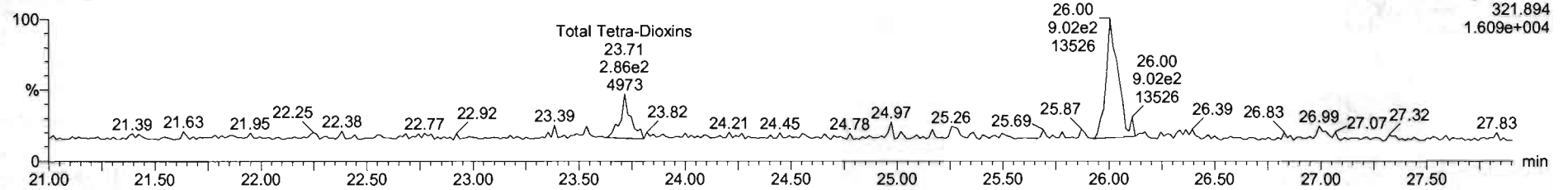
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**2,3,7,8-TCDD**

200501R2\_8

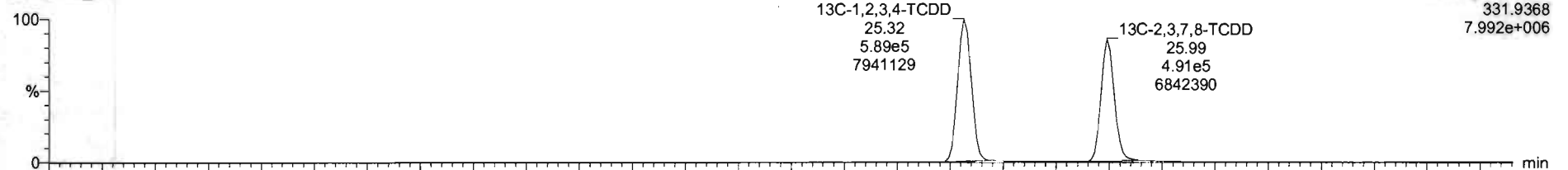


200501R2\_8

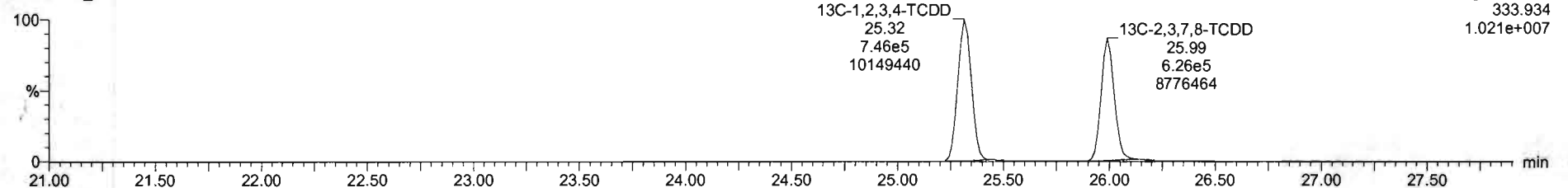


**13C-2,3,7,8-TCDD**

200501R2\_8



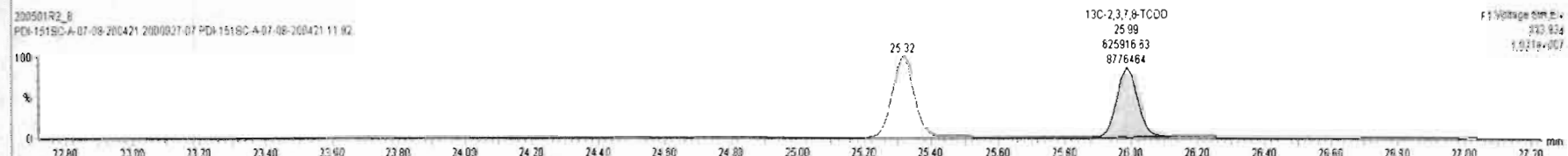
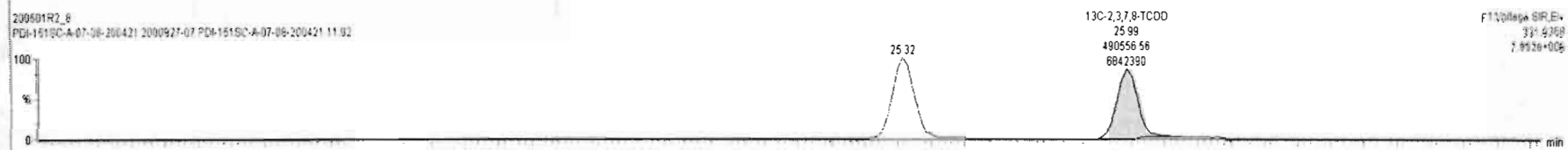
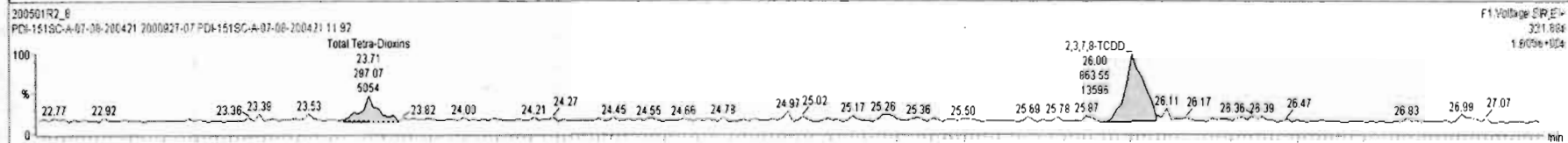
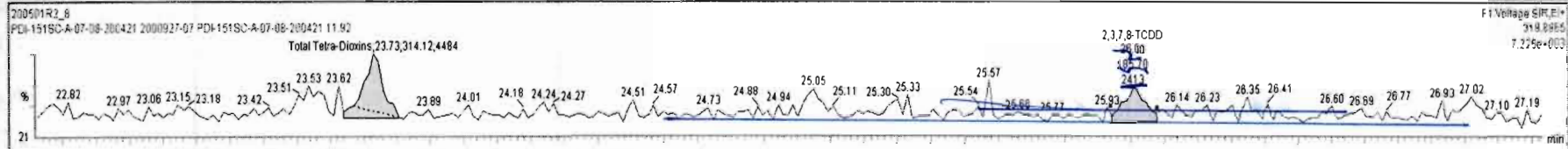
200501R2\_8



200501R2\_8 - 2000927-07-PDI-151SC-A-07-08-200421 11.92 - PDI-151SC-A-07-08-200421

#	Name	Resp	RA	n/y	RRF	w/m	RT	RRT	Conc.	%Rec	DL	EMPC
30	13C-2,3,4,6,7,8-HxCDF	1.15e6	0.52	NO	1.02	10.057	34.29	1.009	172	86.6	0.531	
31	13C-1,2,3,7,8,9-HxCDF	9.03e5	0.54	NO	0.84	10.057	35.19	1.035	164	82.5	0.643	
32	13C-1,2,3,4,6,7,8-HpCDF	9.05e5	0.43	NO	0.77	10.057	36.90	1.086	180	90.6	0.540	
33	13C-1,2,3,4,7,8,9-HpCDF	5.34e5	0.44	NO	0.49	10.057	38.52	1.145	170	85.6	0.863	
34	13C-OCDF	1.24e6	0.91	NO	0.67	10.057	41.49	1.221	284	71.5	0.299	
35	37Cl-2,3,7,8-TCDD	4.71e5	1.13	NO	1.10	10.057	26.02	1.028	63.9	80.3	0.0462	
36	13C-1,2,3,4-TCDD	1.34e6	0.79	NO	1.00	10.057	25.32	1.000	199	100	0.242	
37	13C-1,2,3,4-TCDF	2.10e6	0.78	NO	1.00	10.057	23.53	1.000	199	100	0.336	
38	13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.00	10.057	33.99	1.000	199	100	0.543	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	23.73	3.141e2	2.971e2	1.06	YES	0.098847	0.00000
2	2,3,7,8-TCDD	26.00	1.857e2	8.635e2	0.22	YES	0.080244	0.00000





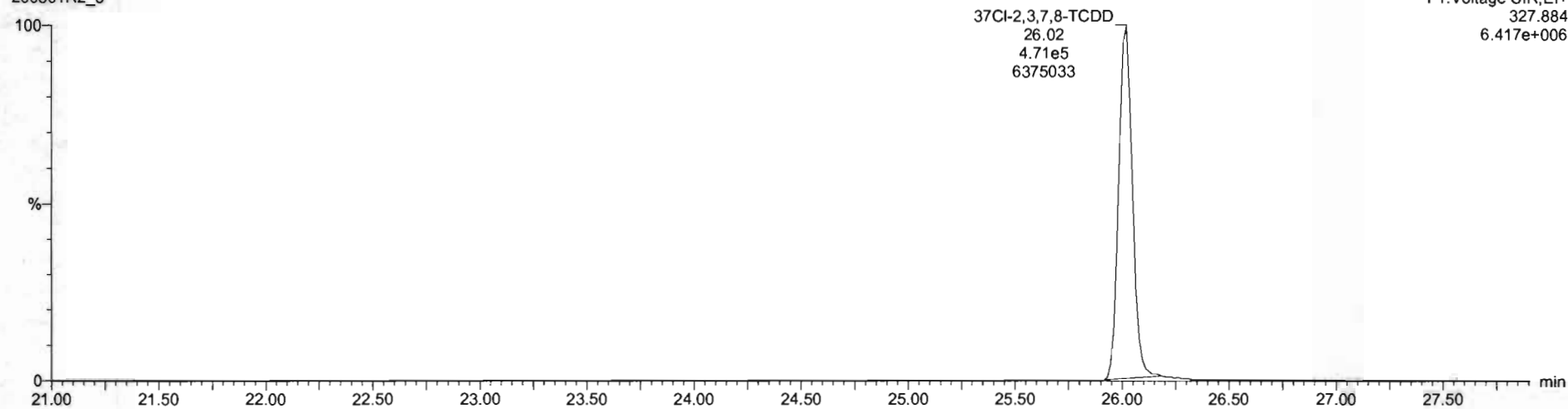
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Name: 200501R2\_8, Date: 01-May-2020, Time: 20:46:39, ID: 2000927-07 PDI-151SC-A-07-08-200421 11.92, Description: PDI-151SC-A-07-08-200421

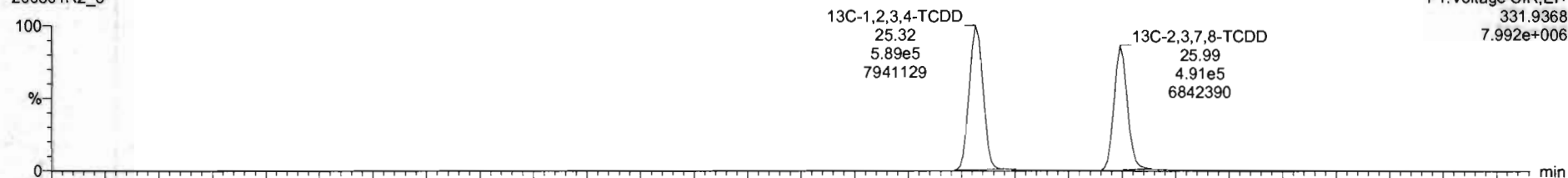
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200501R2\_8

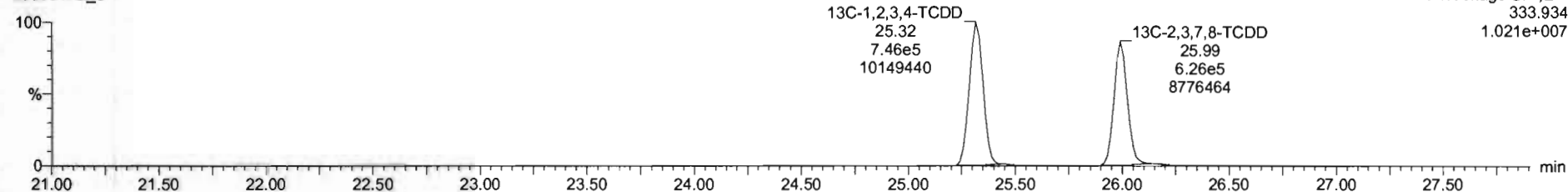


13C-1,2,3,4-TCDD

200501R2\_8



200501R2\_8



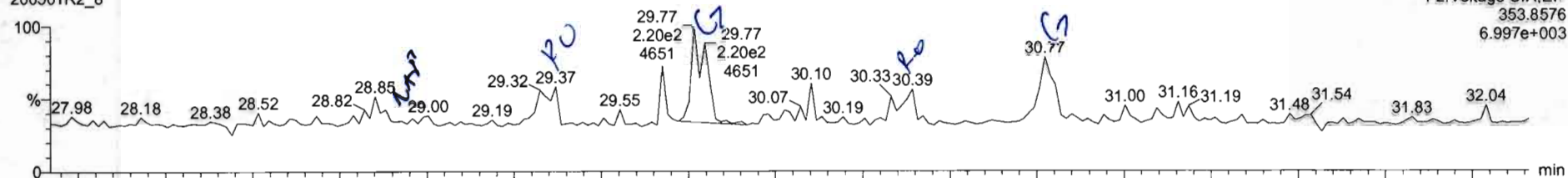
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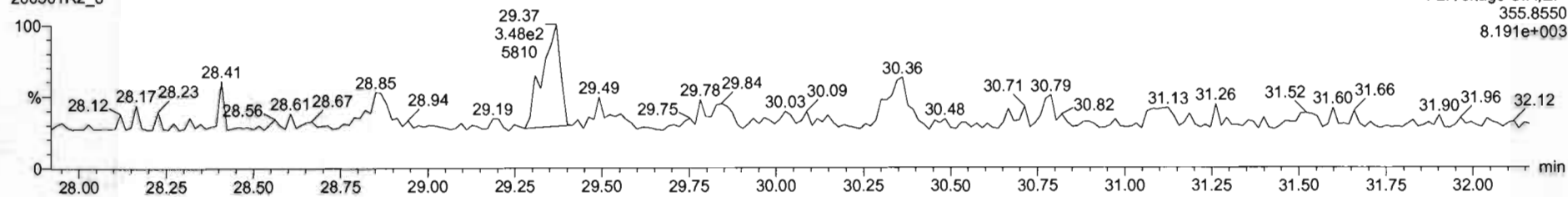
1,2,3,7,8-PeCDD

200501R2\_8



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6.997e+003

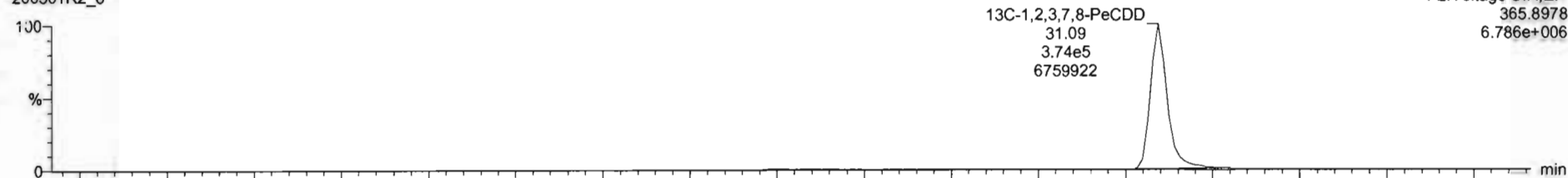
200501R2\_8



F2:Voltage SIR,EI+  
355.8550  
8.191e+003

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

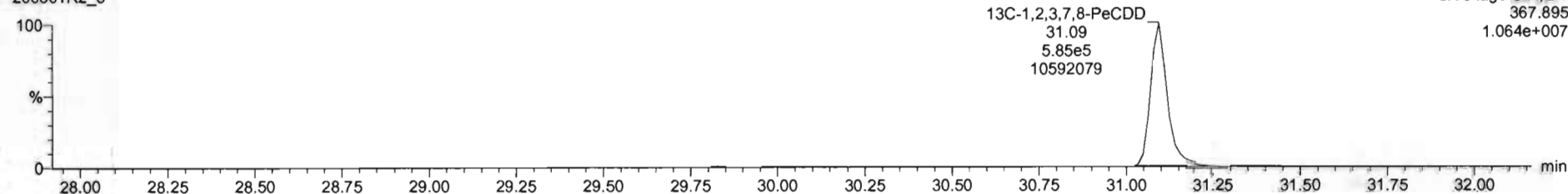
200501R2\_8



13C-1,2,3,7,8-PeCDD  
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F2:Voltage SIR,EI+  
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6.786e+006

200501R2\_8



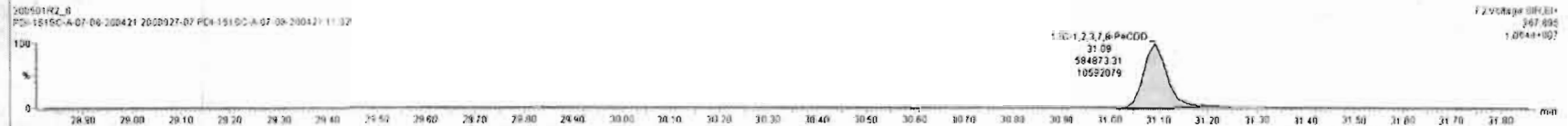
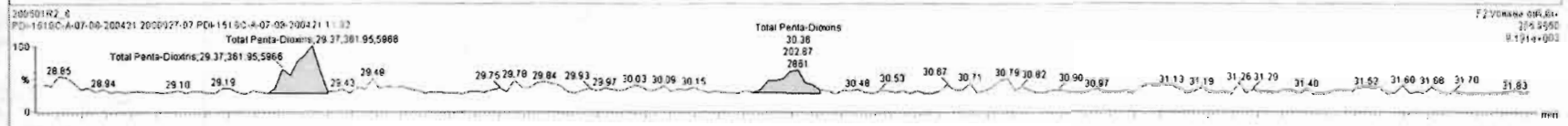
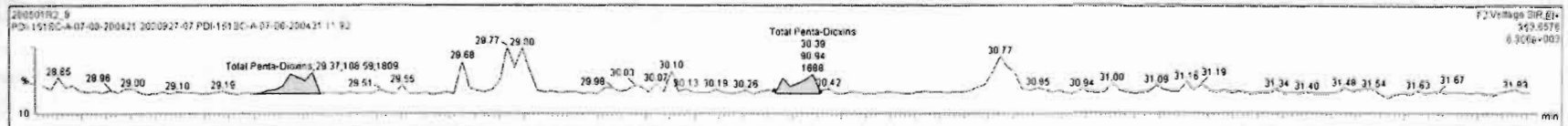
13C-1,2,3,7,8-PeCDD  
31.09  
5.85e5  
10592079

F2:Voltage SIR,EI+  
367.895  
1.064e+007

200501R2\_8 - 2000927-07 PDI-151SC-A-07-08-200421 11.92 - PDI-151SC-A-07-08-200421

Name	Resp	RA	RV	RRF	w/mw	RT	INT	Conc	%Rec	DL	EMPC
25 13C-2,3,7,8-TCDF	1.51e6	0.78	NO	1.03	10.057	25.05	0.989	138	69.3	0.325	
26 13C-1,2,3,7,8-PeCDF	1.47e6	1.59	NO	0.85	10.057	25.78	1.176	164	82.4	0.394	
27 13C-2,3,4,7,8-PeCDF	1.41e6	1.59	NO	0.81	10.057	30.77	1.216	164	82.5	0.409	
28 13C-1,2,3,4,7,8-HxCDF	1.10e6	0.52	NO	1.00	10.057	33.61	0.989	167	84.2	0.540	
29 13C-1,2,3,6,7,8-HxCDF	1.28e6	0.51	NO	1.14	10.057	33.73	0.992	173	87.0	0.478	
30 13C-2,3,4,6,7,8-HxCDF	1.15e6	0.52	NO	1.02	10.057	34.29	1.009	172	86.6	0.531	
31 13C-1,2,3,7,8,9-HxCDF	9.03e5	0.54	NO	0.84	10.057	35.19	1.035	164	82.5	0.643	
32 13C-1,2,3,4,6,7,8-HpCDF	9.05e5	0.43	NO	0.77	10.057	36.90	1.086	180	90.6	0.540	
33 13C-1,2,3,4,7,8,9-HpCDF	5.34e5	0.44	NO	0.48	10.057	38.92	1.145	170	85.6	0.663	

Name	RT	Int Resp	w2 Resp	RA	RV	EMPC	Conc
1 Total Penta-Dioxins	29.37	1.085e2	3.675e2	0.30	YES	0.061948	0.00000
2 Total Penta-Dioxins	30.39	9.004e1	2.029e2	0.45	YES	0.051797	0.00000



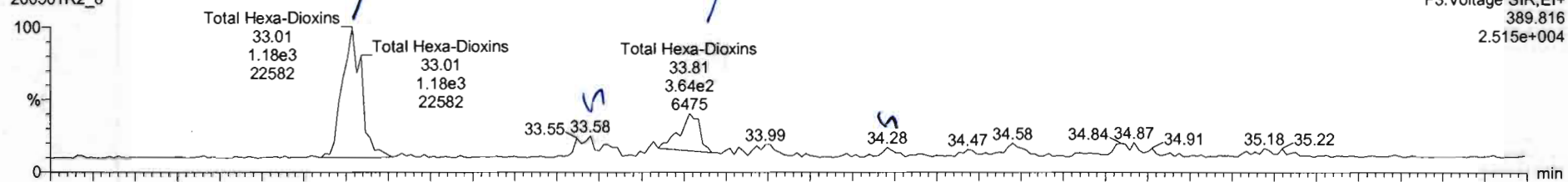
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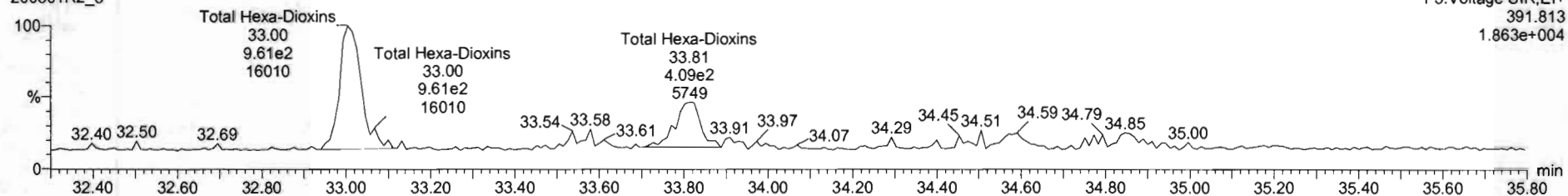
Name: 200501R2\_8, Date: 01-May-2020, Time: 20:46:39, ID: 2000927-07 PDI-151SC-A-07-08-200421 11.92, Description: PDI-151SC-A-07-08-200421

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

200501R2\_8

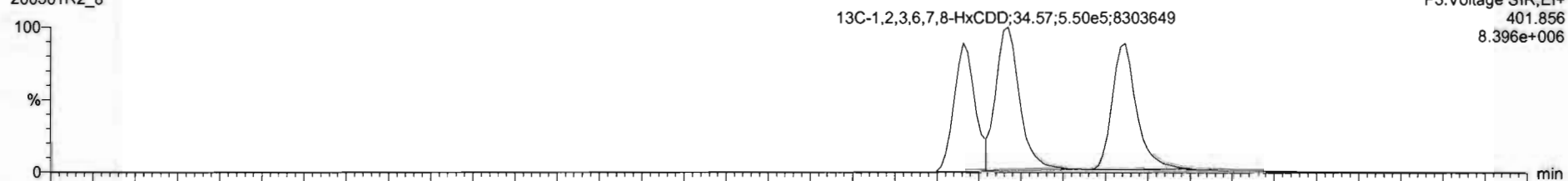


200501R2\_8

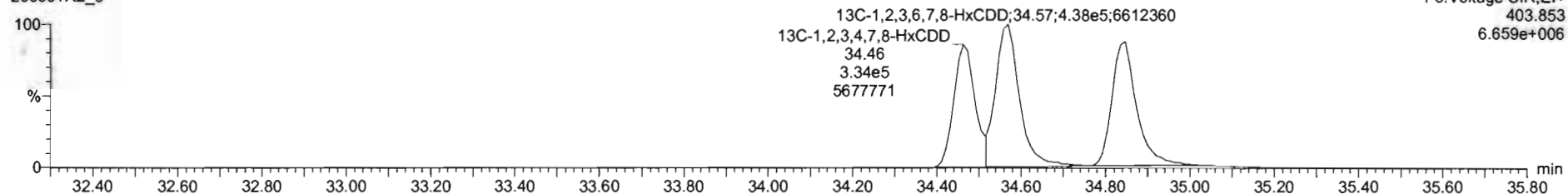


13C-1,2,3,4,7,8-HxCDD

200501R2\_8



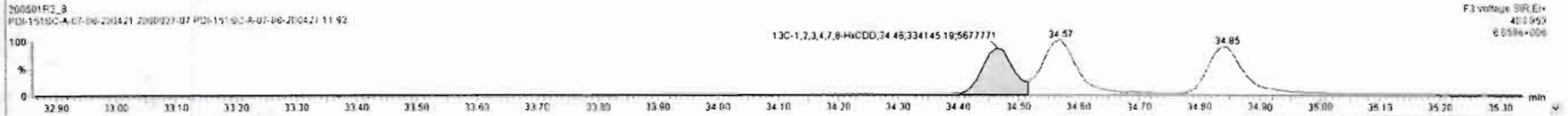
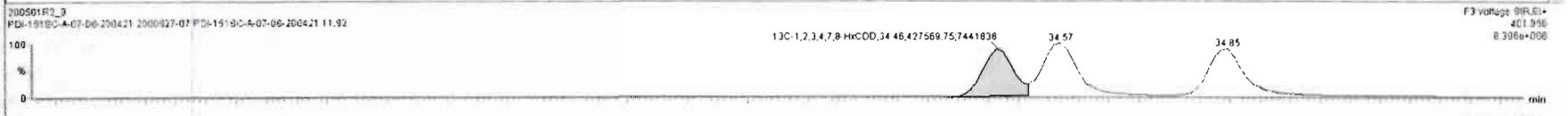
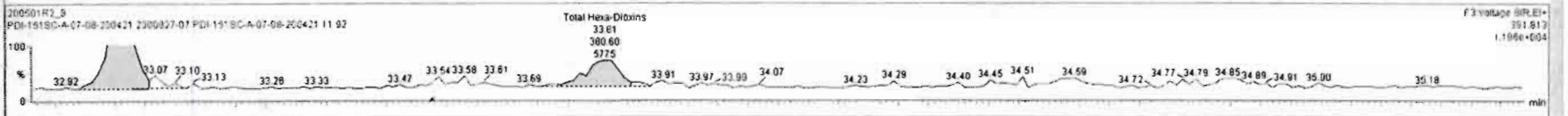
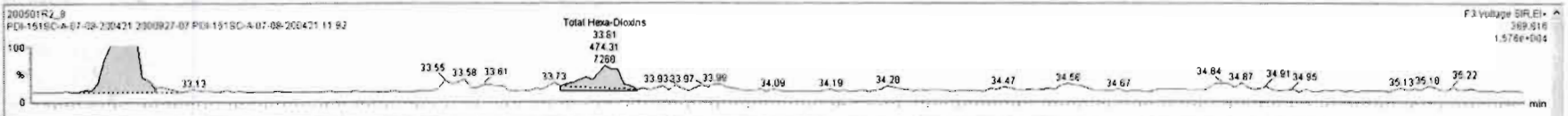
200501R2\_8



200501R2\_8 - 2000927-07-PDI-151SC-A-07-08-200421 11 92 - PDI-151SC-A-07-08-200421

Name	Retp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HxCDF	9.05e	0.43	NO	0.77	10.057	26.80	1.006	180	90.6	0.540
33	13C-1,2,3,4,7,8,9-HxCDF	5.34e	0.44	NO	0.48	10.057	38.92	1.145	170	85.6	0.863
34	13C-OCDF	1.24e	0.91	NO	0.67	10.057	41.49	1.221	284	71.5	0.299
35	2,3,7,8-TCDF	4.71e			1.10	10.057	26.02	1.028	639	80.3	0.0462
36	13C-1,2,3,4-TCDF	1.34e	0.79	NO	1.00	10.057	25.32	1.000	199	100	0.242
37	13C-1,2,3,4-TCDF	2.10e	0.79	NO	1.00	10.057	23.53	1.000	199	100	0.336
38	13C-1,2,3,4,6,9-HxCDF	1.30e	0.51	NO	1.00	10.057	33.99	1.000	199	100	0.543
39	Total Tetra-Dioxins				0.95	10.057			0.000	0.0369	0.0989
40	Total Penta-Dioxins				0.94	10.057			0.000	0.0371	0.1114

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Hexa-Dioxins	33.01	1.153e3	9.047e2	1.27	NO	0.51034	0.51034
2	Total Hexa-Dioxins	33.81	4.743e2	3.806e2	1.25	NO	0.21205	0.21205



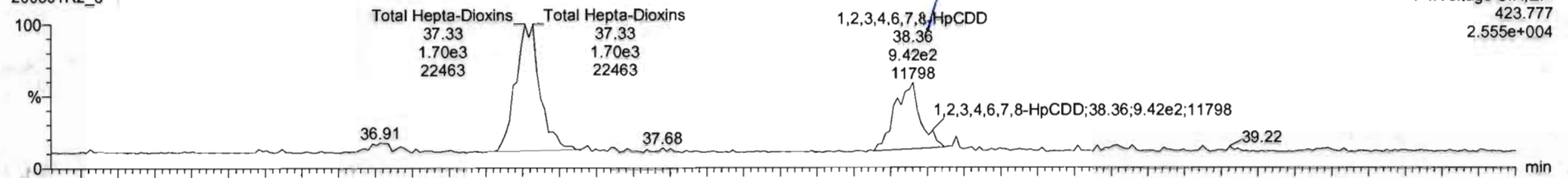
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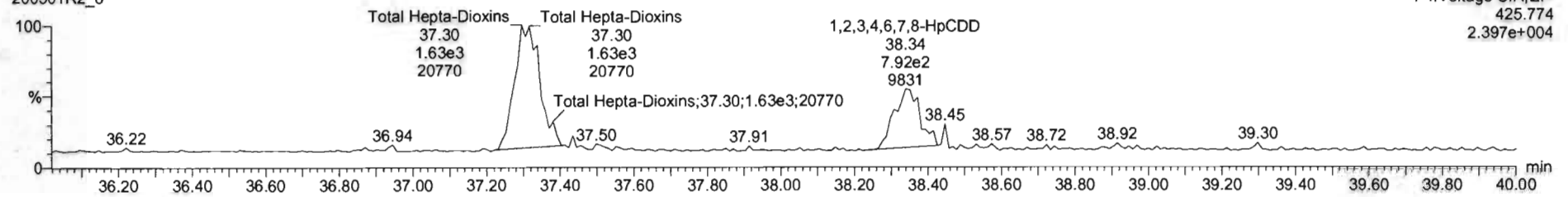
Name: 200501R2\_8, Date: 01-May-2020, Time: 20:46:39, ID: 2000927-07 PDI-151SC-A-07-08-200421 11.92, Description: PDI-151SC-A-07-08-200421

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

200501R2\_8

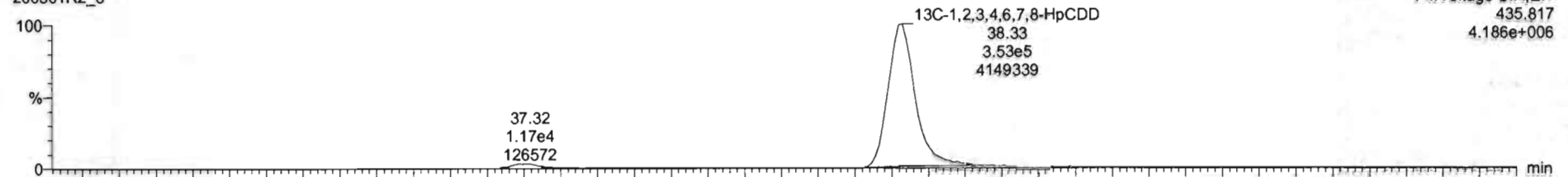


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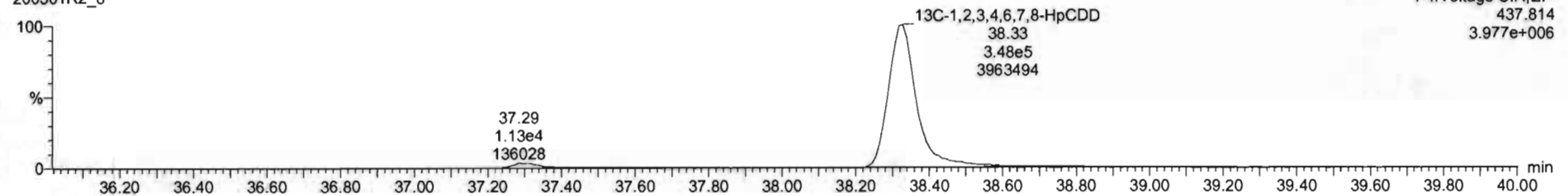


13C-1,2,3,4,6,7,8-HpCDD

200501R2\_8

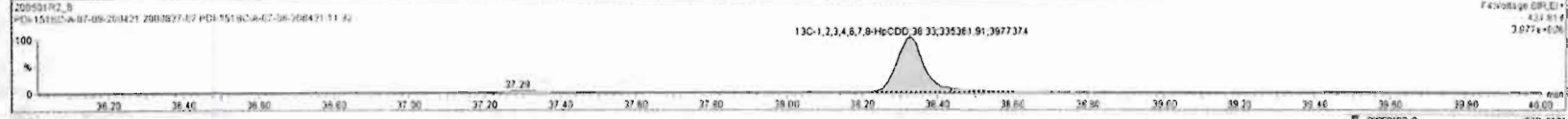
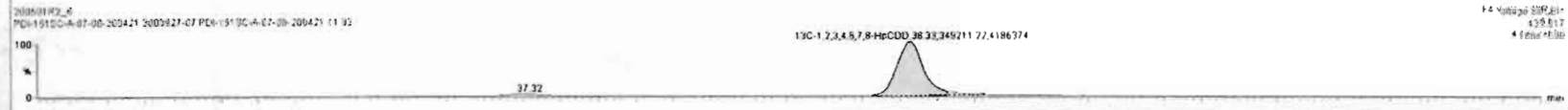
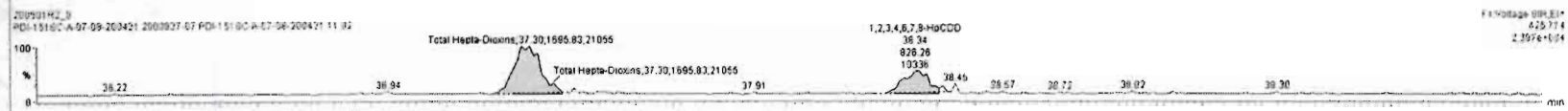


200501R2\_8



Name	Resp.	RA	RV	RFV	sdAve	RT	RET	Circ.	Nfirc.	CL	EMPC
13C-1,2,3,4,6,7,8-HxCDF	1.15e5	0.52	NO	1.02	10.057	34.29	1.025	172	85.6	0.531	
13C-1,2,3,7,8,9-HxCDF	9.02e5	0.54	NO	0.84	10.057	31.19	1.025	164	82.5	0.643	
13C-1,2,3,4,6,7,8-HxCDF	9.05e5	0.43	NO	0.77	10.057	26.90	1.006	180	90.6	0.540	
13C-1,2,3,4,7,8,9-HxCDF	5.34e5	0.44	NO	0.48	10.057	38.92	1.145	170	85.8	0.863	
13C-OCDF	1.24e5	0.91	NO	0.67	10.057	41.49	1.221	264	71.5	0.290	
37Cl-2,3,7,8-TCDD	4.71e5			1.10	10.057	26.02	1.026	63.9	80.3	0.0462	
13C-1,2,3,4-TCDD	1.34e5	0.79	NO	1.00	10.057	25.32	1.000	199	100	0.242	
13C-1,2,3,4-TCDF	2.10e5	0.79	NO	1.00	10.057	23.53	1.000	199	100	0.336	
13C-1,2,3,4,6,8-HxCDF	1.30e5	0.51	NO	1.00	10.057	33.99	1.000	199	100	0.543	

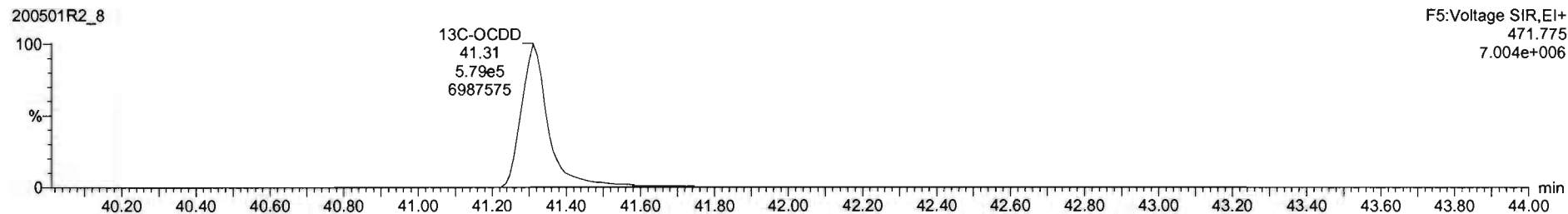
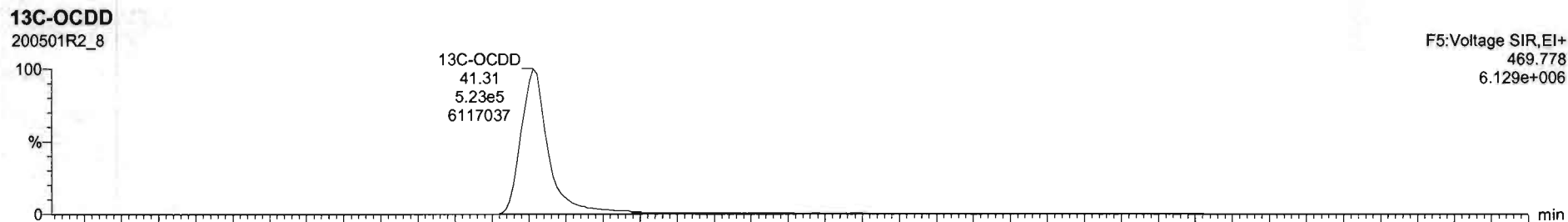
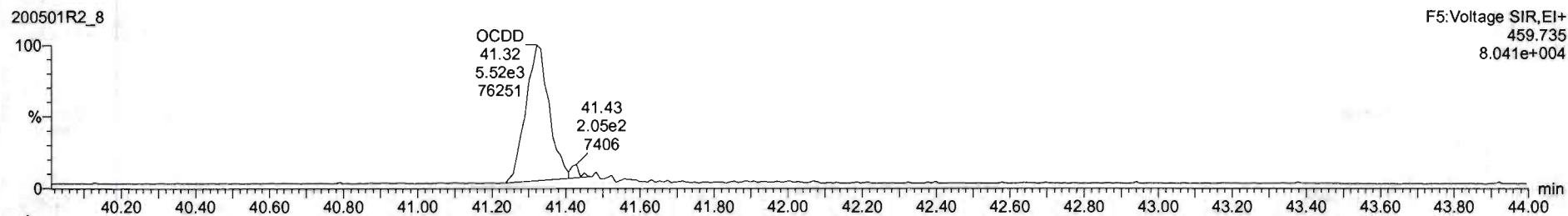
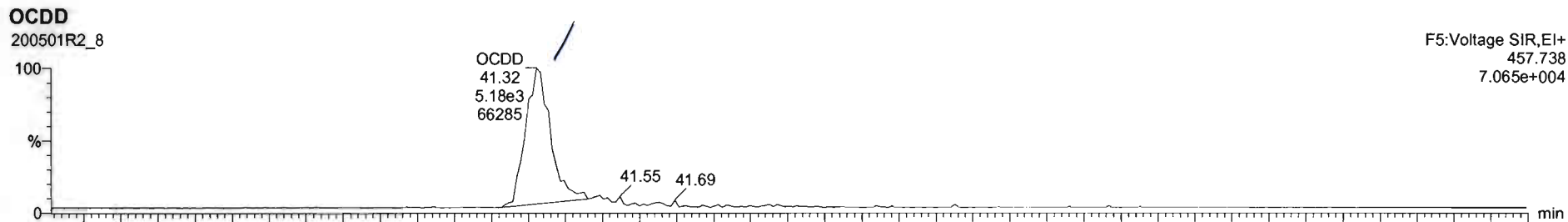
Name	RT	m1 Resp	m2 Resp	RA	RV	EMPC	Conc.
Total Hapta-Dioxins	37.33	1.722e3	1.856e3	1.02	NO	1.1062	1.1062
1,2,3,4,6,7,8-HpCDD	38.38	9.245e2	8.263e2	1.12	NO	0.56638	0.56638



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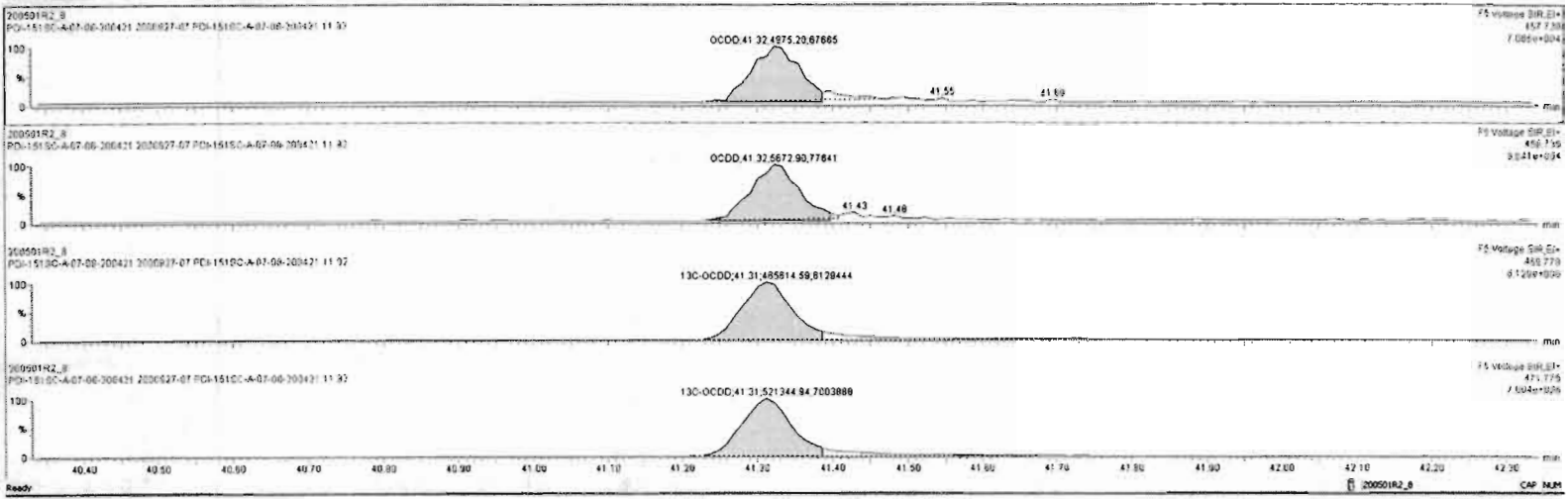
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200501R2\_0 - 2000927-07 PDI-151SC-A-07-09-200421 11.92 - PDI-151SC-A-07-09-200421

#	Name	Resp	RA	nA	RF	wAvef	RT	RF1	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.95	10.067					0.0595	
2	1,2,3,7,8-PeCDD			NO	0.94	10.067					0.0718	
3	1,2,3,4,7,8-HxCDD			NO	1.06	10.067					0.0544	
4	1,2,3,6,7,8-HxCDD			NO	0.91	10.067					0.0593	
5	1,2,3,7,8,9-HxCDD			NO	0.91	10.067					0.0631	
6	1,2,3,4,6,7,8-HpCDD	1.72e3	1.18	NO	0.90	10.067	38.36	1.001	0.547		0.130	0.547
7	OCDD	1.06e4	0.88	NO	0.93	10.067	41.32	1.000	4.60		0.135	4.60
8	2,3,7,8-TCDF			NO	0.79	10.067					0.0274	
9	1,2,3,7,8-PeCDF			NO	0.91	10.067					0.0321	
10	2,3,4,7,8-HxCDF			NO	0.97	10.067					0.0279	
11	1,2,3,4,7,8-HpCDF			NO	0.88	10.067					0.0308	
12	1,2,3,6,7,8-HxCDF			NO	0.87	10.067					0.0290	
13	2,3,4,6,7,8-HpCDF			NO	0.92	10.067					0.0306	
14	1,2,3,7,8,9-HxCDF			NO	0.86	10.067					0.0315	
15	1,2,3,4,6,7,8-HpCDF			NO	0.87	10.067					0.0482	
16	1,2,3,4,7,8,9-HxCDF			NO	1.01	10.067					0.0657	
17	OCDF			NO	0.80	10.067					0.0770	
18	13C-2,3,7,8-TCDD	1.12e6	0.78	NO	1.16	10.067	25.99	1.027	143	72.1		0.259



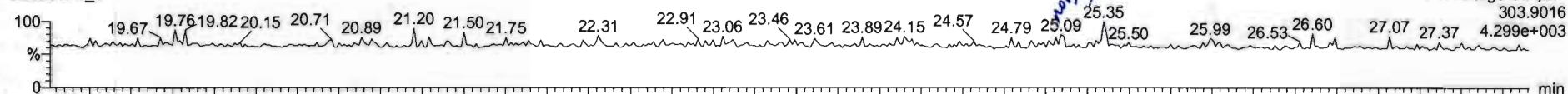
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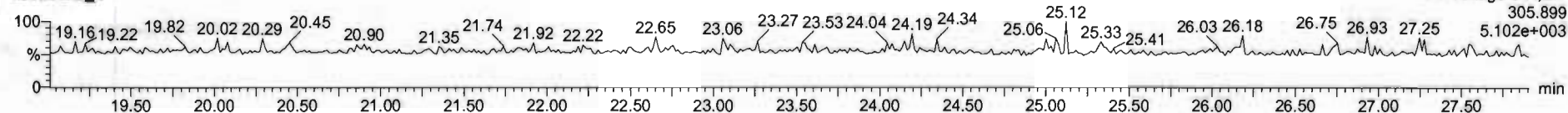
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2,3,7,8-TCDF

200501R2\_8

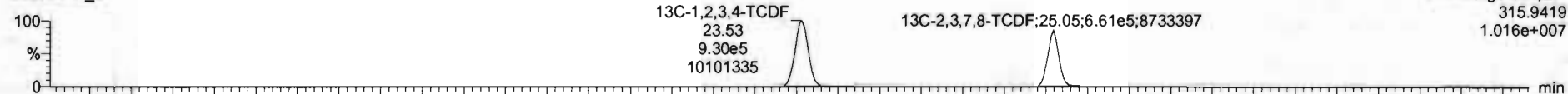


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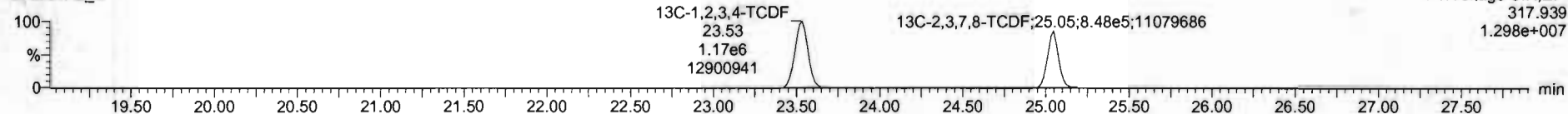


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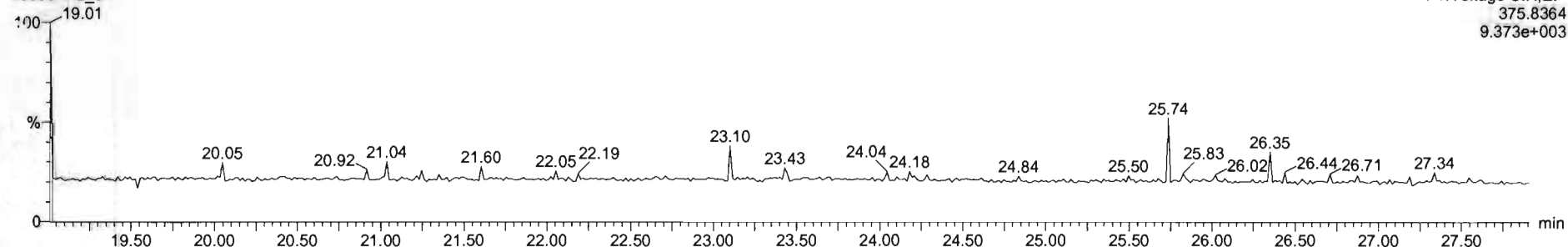


200501R2\_8



DPE1

200501R2\_8



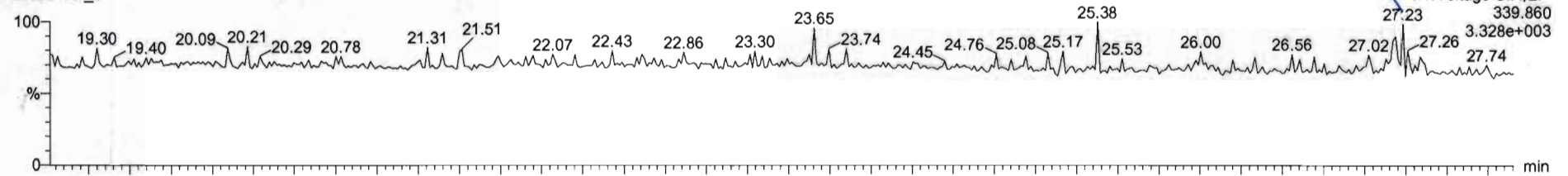
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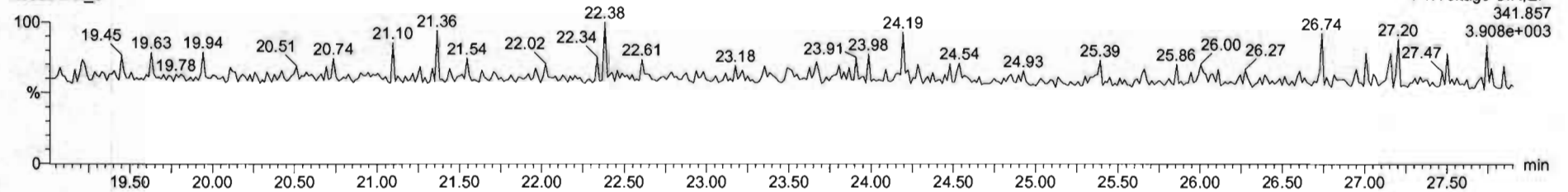
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1st Func. Penta-Furans

200501R2\_8

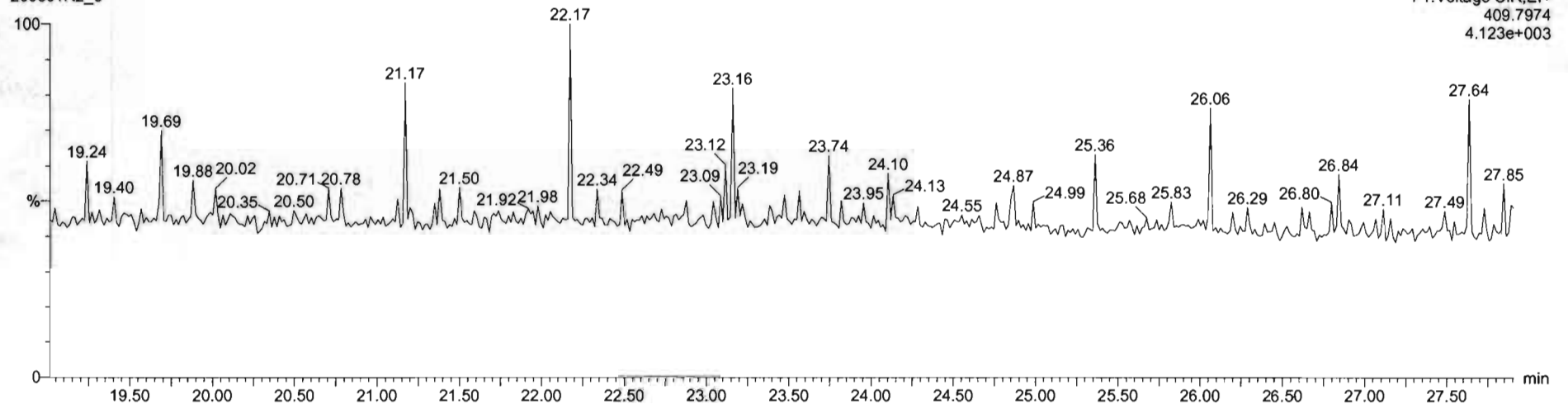


200501R2\_8



DPE6

200501R2\_8

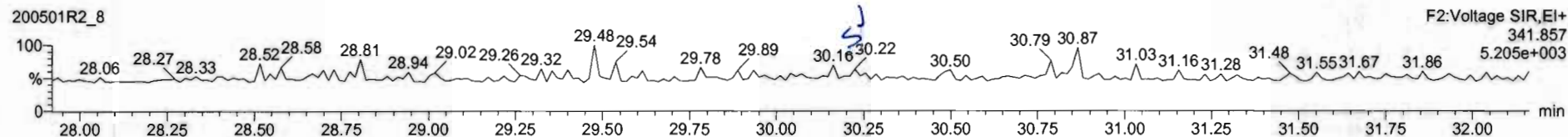
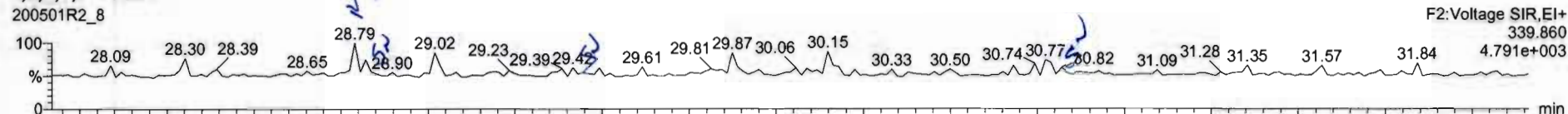


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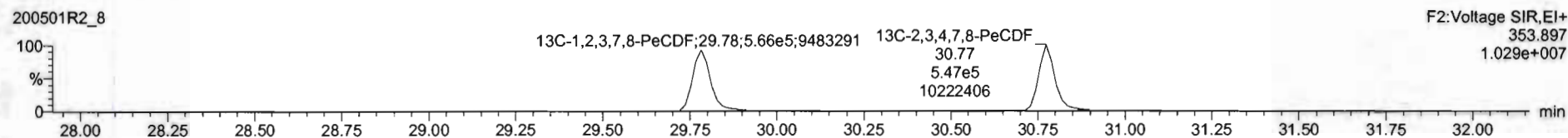
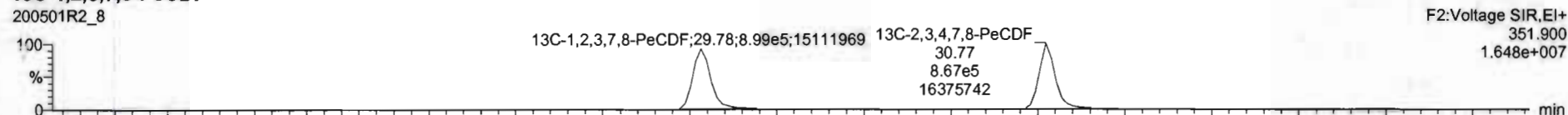
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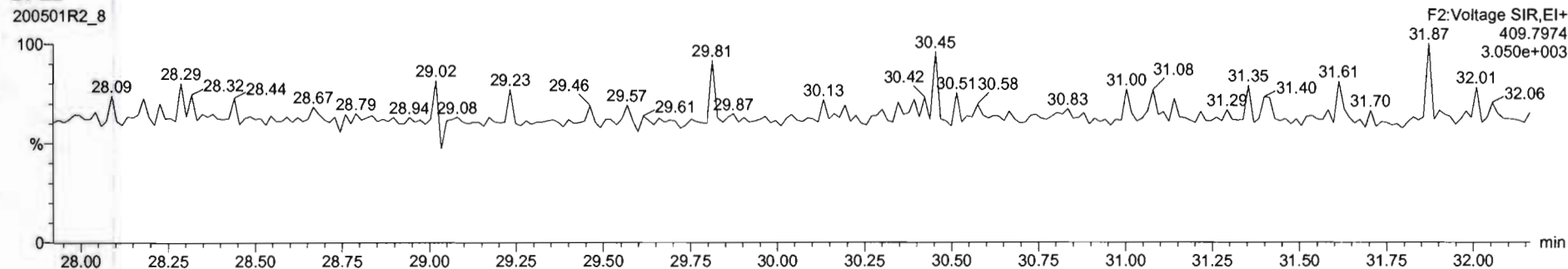
1,2,3,7,8-PeCDF



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



DPE2

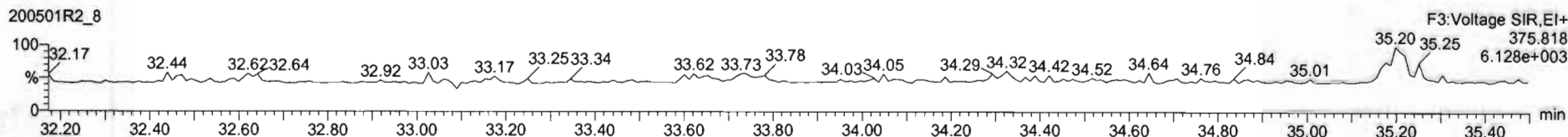
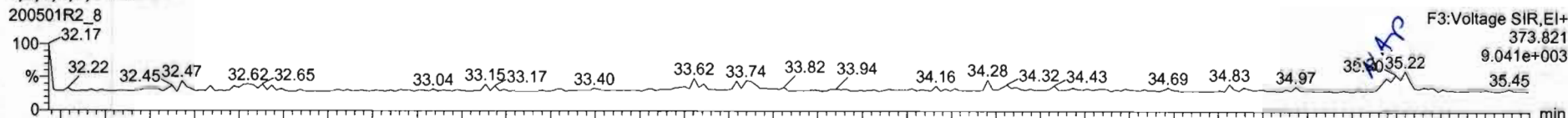


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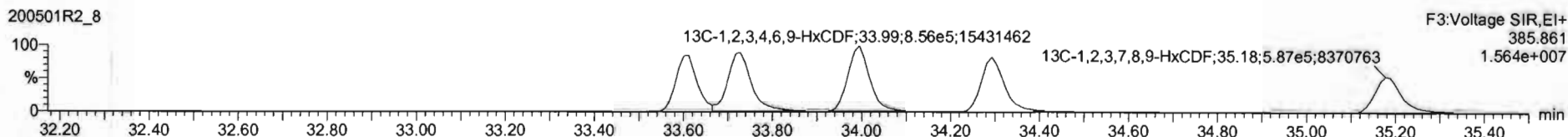
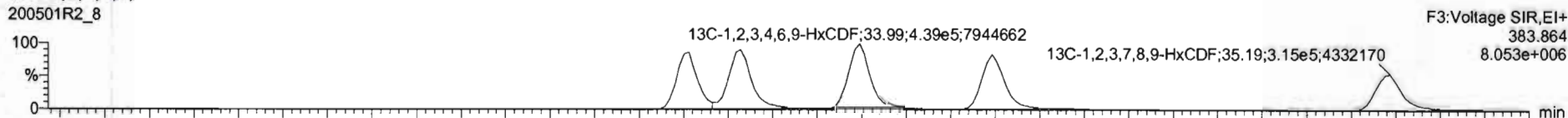
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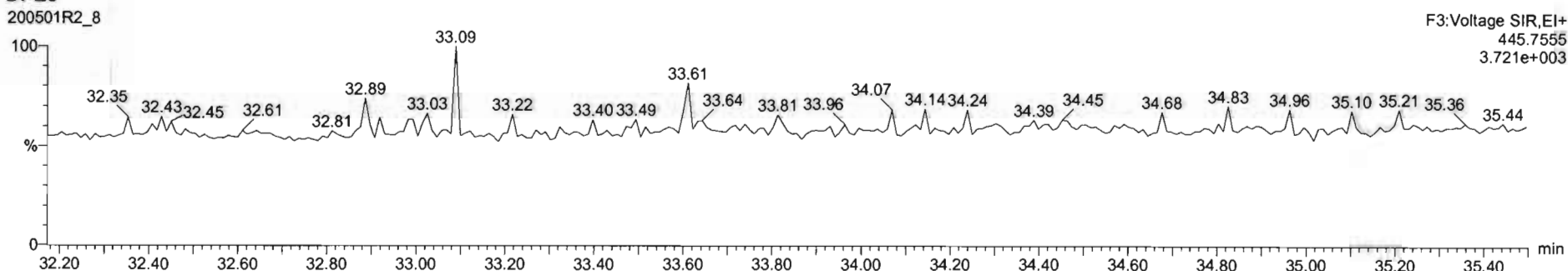
**1,2,3,4,7,8-HxCDF**



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



**DPE3**

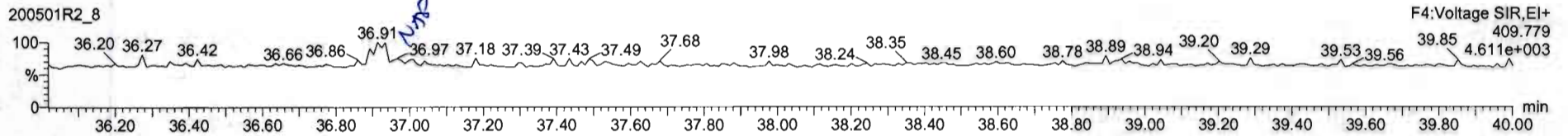
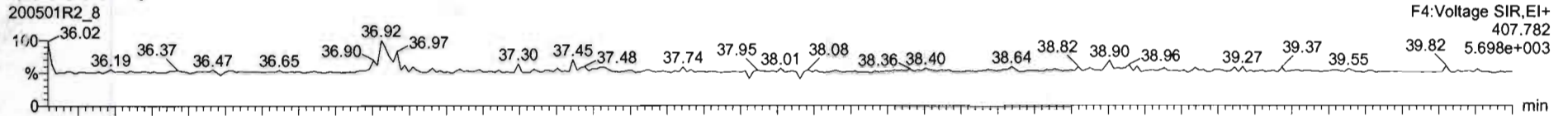


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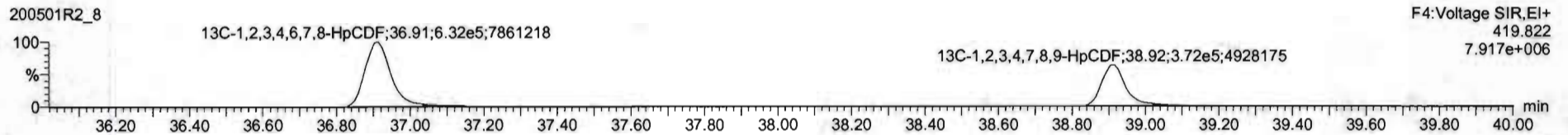
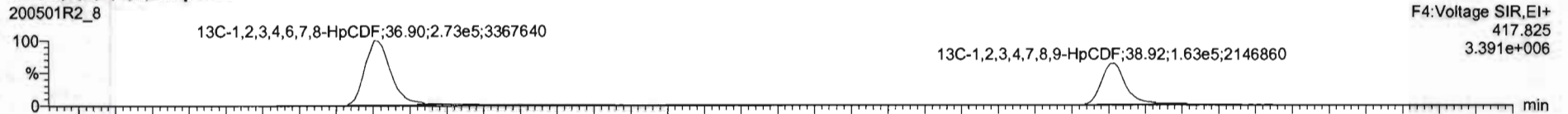
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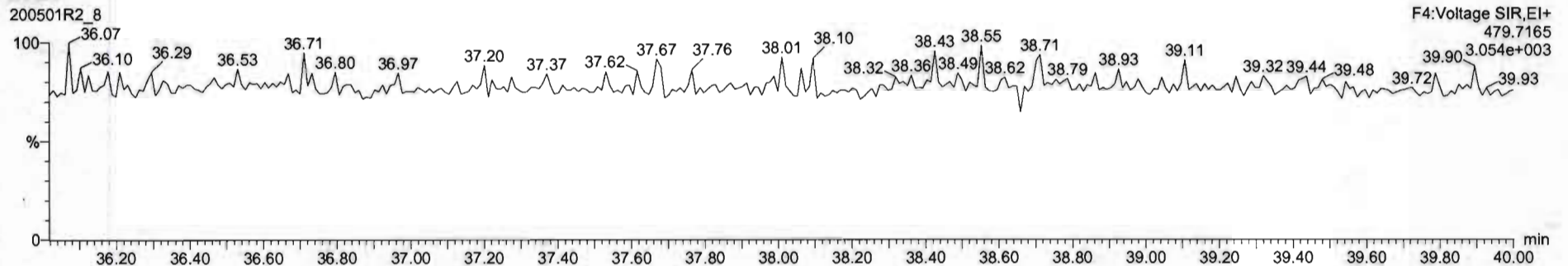
**1,2,3,4,6,7,8-HpCDF**



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



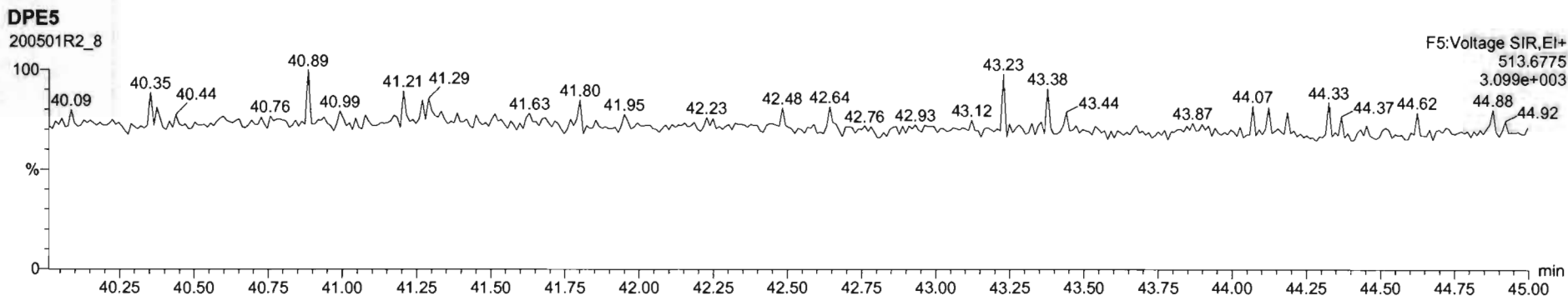
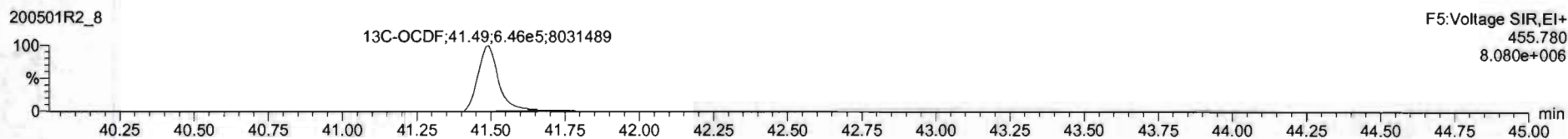
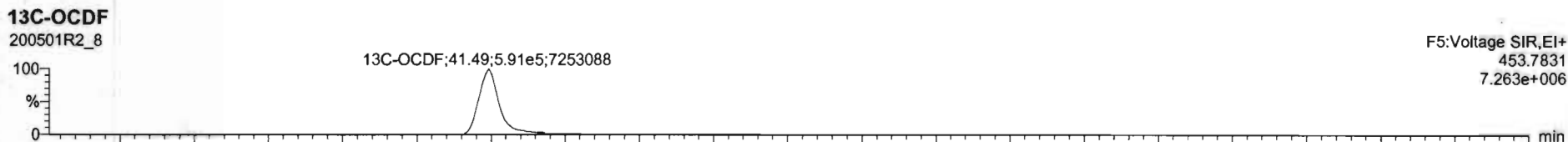
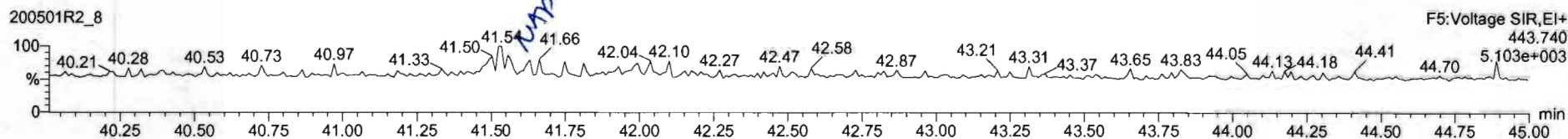
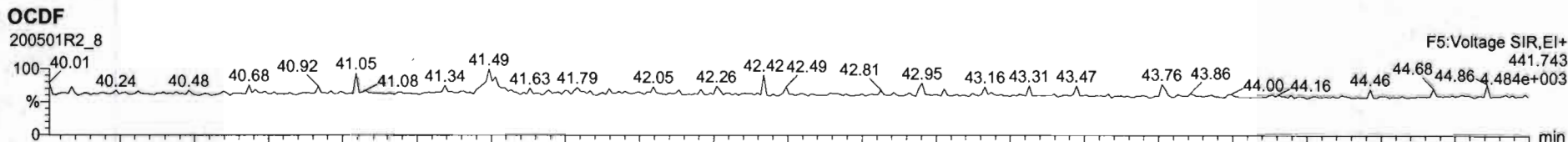
**DPE4**



Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_8, Date: 01-May-2020, Time: 20:46:39, ID: 2000927-07 PDI-151SC-A-07-08-200421 11.92, Description: PDI-151SC-A-07-08-200421



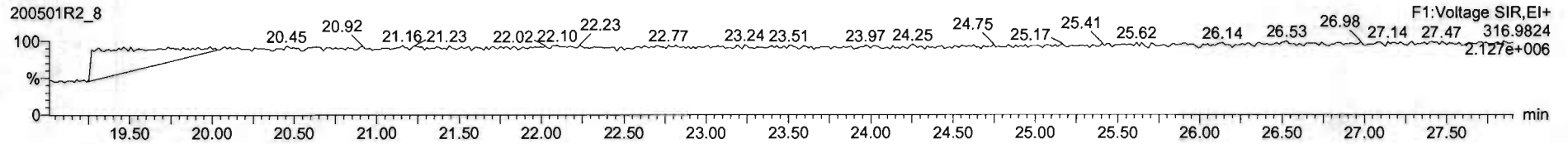
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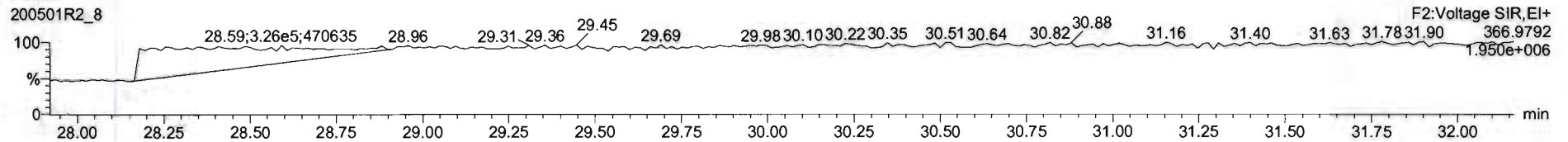
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Name: 200501R2\_8, Date: 01-May-2020, Time: 20:46:39, ID: 2000927-07 PDI-151SC-A-07-08-200421 11.92, Description: PDI-151SC-A-07-08-200421

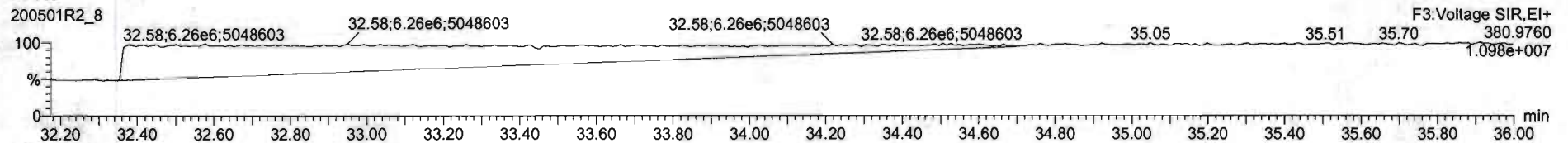
PFK1



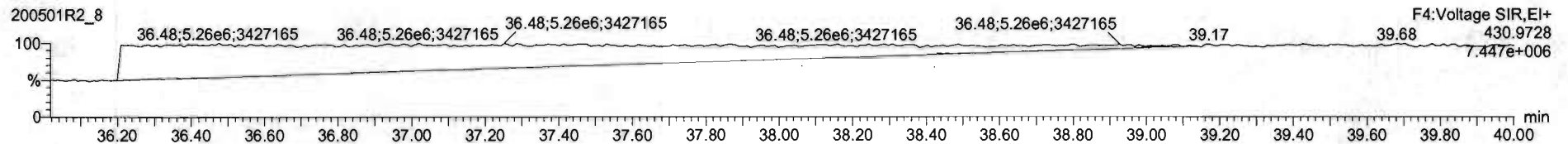
PFK2



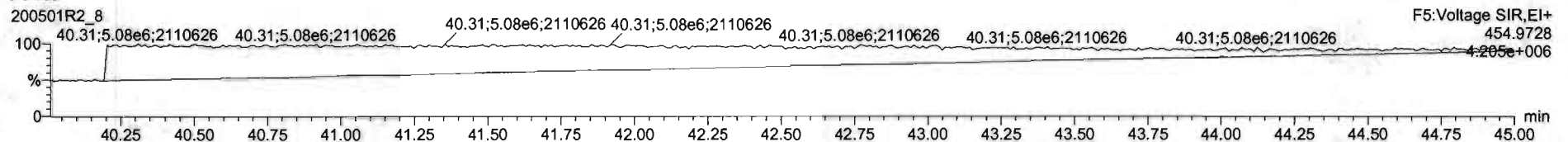
PFK3



PFK4



PFK5





Dataset: U:\VG12.PRO\Results\200501R2\200501R2-9.qld

Last Altered: Saturday, May 02, 2020 11:04:28 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:05:06 Pacific Daylight Time

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

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

Name: 200501R2\_9, Date: 01-May-2020, Time: 21:32:50, ID: 2000927-08 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421,

Task: ST200501R2\_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	9.37e2	0.31	YES	0.947	10.020	26.00	1.001	0.27756		0.118	0.151
2	1,2,3,7,8-PeCDD	2.22e2	0.86	YES	0.942	10.020	31.09	1.000	0.088602		0.135	0.0776
3	1,2,3,4,7,8-HxCDD			NO	1.06	10.020					0.199	
4	1,2,3,6,7,8-HxCDD	1.71e3	1.46	YES	0.915	10.020	34.58	1.000	0.72644		0.284	0.662
5	1,2,3,7,8,9-HxCDD	1.02e3	1.66	YES	0.915	10.020	34.87	1.001	0.50147		0.287	0.423
6	1,2,3,4,6,7,8-HpCDD	6.27e4	1.07	NO	0.898	10.020	38.35	1.000	46.487		0.634	46.5
7	OCDD	3.15e5	0.89	NO	0.933	10.020	41.34	1.000	340.98		0.761	341
8	2,3,7,8-TCDF	3.00e3	0.85	NO	0.787	10.020	25.05	1.001	0.75931	OK	0.104	0.759
9	1,2,3,7,8-PeCDF	4.55e3	1.55	NO	0.910	10.020	29.80	1.001	1.2149		0.144	1.21
10	2,3,4,7,8-PeCDF	2.04e3	1.56	NO	0.966	10.020	30.79	1.000	0.51652		0.127	0.517
11	1,2,3,4,7,8-HxCDF	5.23e3	1.19	NO	0.878	10.020	33.62	1.001	2.0427		0.0923	2.04
12	1,2,3,6,7,8-HxCDF	1.59e3	1.03	YES	0.874	10.020	33.74	1.001	0.54462		0.0937	0.499
13	2,3,4,6,7,8-HxCDF	6.95e2	1.43	YES	0.922	10.020	34.29	1.000	0.26830		0.104	0.247
14	1,2,3,7,8,9-HxCDF	3.25e2	1.37	NO	0.864	10.020	35.21	1.001	0.17023		0.164	0.170
15	1,2,3,4,6,7,8-HpCDF	5.16e3	0.99	NO	0.871	10.020	36.93	1.001	2.8991		0.150	2.90
16	1,2,3,4,7,8,9-HpCDF	4.39e2	0.86	YES	1.01	10.020	38.95	1.001	0.35241		0.204	0.319
17	OCDF	9.96e3	0.86	NO	0.802	10.020	41.52	1.000	11.300		0.267	11.3
18	13C-2,3,7,8-TCDD	7.11e5	0.78	NO	1.16	10.020	25.99	1.027	108.23	54.2	0.217	
19	13C-1,2,3,7,8-PeCDD	5.31e5	0.63	NO	0.847	10.020	31.09	1.229	110.52	55.4	0.263	
20	13C-1,2,3,4,7,8-HxCDD	3.93e5	1.28	NO	0.750	10.020	34.46	1.014	91.294	45.7	0.306	
21	13C-1,2,3,6,7,8-HxCDD	5.13e5	1.22	NO	0.963	10.020	34.57	1.017	92.799	46.5	0.238	
22	13C-1,2,3,7,8,9-HxCDD	4.43e5	1.19	NO	0.838	10.020	34.84	1.025	92.234	46.2	0.274	
23	13C-1,2,3,4,6,7,8-HpCDD	3.00e5	1.06	NO	0.641	10.020	38.34	1.128	81.506	40.8	0.294	
24	13C-OCDD	3.95e5	0.90	NO	0.586	10.020	41.33	1.216	117.46	29.4	0.335	
25	13C-2,3,7,8-TCDF	1.00e6	0.78	NO	1.03	10.020	25.03	0.989	108.87	54.5	0.348	
26	13C-1,2,3,7,8-PeCDF	8.21e5	1.62	NO	0.845	10.020	29.78	1.177	109.22	54.7	0.482	
27	13C-2,3,4,7,8-PeCDF	8.17e5	1.59	NO	0.814	10.020	30.77	1.216	112.89	56.6	0.500	
28	13C-1,2,3,4,7,8-HxCDF	5.81e5	0.51	NO	1.00	10.020	33.60	0.989	100.81	50.5	0.378	
29	13C-1,2,3,6,7,8-HxCDF	6.66e5	0.52	NO	1.14	10.020	33.72	0.992	102.04	51.1	0.334	
30	13C-2,3,4,6,7,8-HxCDF	5.61e5	0.52	NO	1.02	10.020	34.29	1.009	95.562	47.9	0.371	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-9.qld

Last Altered: Saturday, May 02, 2020 11:04:28 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:05:06 Pacific Daylight Time

Name: 200501R2\_9, Date: 01-May-2020, Time: 21:32:50, ID: 2000927-08 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421, Task: ST200501R2\_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	4.41e5	0.51	NO	0.845	10.020	35.18	1.035	90.899	45.5	0.449	
32	13C-1,2,3,4,6,7,8-HpCDF	4.08e5	0.42	NO	0.771	10.020	36.91	1.086	92.164	46.2	0.379	
33	13C-1,2,3,4,7,8,9-HpCDF	2.46e5	0.41	NO	0.482	10.020	38.93	1.145	88.723	44.5	0.607	
34	13C-OCDF	4.39e5	0.89	NO	0.669	10.020	41.51	1.222	114.38	28.7	0.267	
35	37Cl-2,3,7,8-TCDD	3.28e5			1.10	10.020	26.00	1.028	52.727	66.0	0.0585	
36	13C-1,2,3,4-TCDD	1.13e6	0.81	NO	1.00	10.020	25.30	1.000	199.59	100	0.252	
37	13C-1,2,3,4-TCDF	1.77e6	0.79	NO	1.00	10.020	23.52	1.000	199.59	100	0.360	
38	13C-1,2,3,4,6,9-HxCDF	1.15e6	0.52	NO	1.00	10.020	33.98	1.000	199.59	100	0.380	
39	Total Tetra-Dioxins				0.947	10.020			0.00000		0.0520	0.151
40	Total Penta-Dioxins				0.942	10.020			0.00000		0.0610	0.996
41	Total Hexa-Dioxins				0.915	10.020			11.821		0.223	12.9
42	Total Hepta-Dioxins				0.898	10.020			120.71		0.634	121
43	Total Tetra-Furans				0.787	10.020			2.5731		0.104	3.74
44	1st Func. Penta-Furans				0.910	10.020			0.91116		0.0292	0.911
45	Total Penta-Furans				0.910	10.020			4.1770		0.140	4.18
46	Total Hexa-Furans				0.922	10.020			5.6432		0.105	6.39
47	Total Hepta-Furans				0.871	10.020			10.798		0.182	11.1

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-9.qld

Last Altered: Saturday, May 02, 2020 11:04:28 Pacific Daylight Time  
 Printed: Saturday, May 02, 2020 11:05:06 Pacific Daylight Time

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

Name: 200501R2\_9, Date: 01-May-2020, Time: 21:32:50, ID: 2000927-08 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421,  
 Task: ST200501R2\_2

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 2,3,7,8-TCDD	26.00	5.742e3	1.323e4	2.217e2	7.151e2	0.31	YES	9.368e2	0.00000	0.15101	0.116

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Dioxins	28.88	4.824e3	5.989e3	4.087e2	4.980e2	0.82	YES	0.000e0	0.00000	0.32401	0.135
2 Total Penta-Dioxins	29.34	2.212e3	5.639e3	1.259e2	2.581e2	0.49	YES	0.000e0	0.00000	0.13004	0.135
3 Total Penta-Dioxins	29.84	3.137e3	4.369e3	8.794e1	2.205e2	0.40	YES	0.000e0	0.00000	0.090823	0.135
4 Total Penta-Dioxins	30.01	3.119e3	3.911e3	1.045e2	2.274e2	0.46	YES	0.000e0	0.00000	0.10788	0.135
5 Total Penta-Dioxins	30.10	6.152e3	3.752e3	1.503e2	1.787e2	0.84	YES	0.000e0	0.00000	0.11624	0.135
6 Total Penta-Dioxins	30.33	2.182e3	3.739e3	1.447e2	2.739e2	0.53	YES	0.000e0	0.00000	0.14944	0.135
7 1,2,3,7,8-PeCDD	31.09	3.107e3	3.392e3	1.027e2	1.192e2	0.86	YES	2.220e2	0.00000	0.077583	0.135

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	33.01	1.234e5	9.187e4	6.421e3	4.996e3	1.29	NO	1.142e4	5.5407	5.5407	0.223
2 Total Hexa-Dioxins	33.57	2.061e4	1.398e4	7.890e2	6.807e2	1.16	NO	1.470e3	0.71334	0.71334	0.223
3 Total Hexa-Dioxins	33.81	7.369e4	6.333e4	5.189e3	4.053e3	1.28	NO	9.242e3	4.4858	4.4858	0.223
4 Total Hexa-Dioxins	33.92	1.422e4	1.501e4	8.499e2	6.458e2	1.32	NO	1.496e3	0.72592	0.72592	0.223
5 1,2,3,6,7,8-HxCDD	34.58	1.660e4	1.334e4	1.012e3	6.949e2	1.46	YES	1.707e3	0.00000	0.66239	0.204
6 Total Hexa-Dioxins	34.77	8.319e3	8.392e3	3.974e2	3.338e2	1.19	NO	7.313e2	0.35491	0.35491	0.223
7 1,2,3,7,8,9-HxCDD	34.87	1.137e4	7.252e3	6.355e2	3.835e2	1.66	YES	1.019e3	0.00000	0.42273	0.237

**Hepta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	37.32	6.207e5	6.092e5	5.038e4	4.980e4	1.01	NO	1.002e5	74.220	74.220	0.634
2 1,2,3,4,6,7,8-HpCDD	38.35	4.016e5	3.996e5	3.246e4	3.028e4	1.07	NO	6.275e4	46.487	46.487	0.634

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Dataset: U:\VG12.PRO\Results\200501R2\200501R2-9.qld

Last Altered: Saturday, May 02, 2020 11:04:28 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:05:06 Pacific Daylight Time

Name: 200501R2\_9, Date: 01-May-2020, Time: 21:32:50, ID: 2000927-08 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421, Task: ST200501R2\_2

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Furans	20.86	6.896e3	9.267e3	6.281e2	7.958e2	0.79	NO	1.424e3	0.36060	0.36060	0.104
2 Total Tetra-Furans	21.80	1.206e4	1.161e4	7.793e2	1.156e3	0.67	NO	1.936e3	0.49019	0.49019	0.104
3 Total Tetra-Furans	22.29	4.837e3	6.435e3	3.615e2	4.428e2	0.82	NO	8.042e2	0.20366	0.20366	0.104
4 Total Tetra-Furans	23.51	1.129e4	1.614e4	1.162e3	1.841e3	0.63	YES	0.000e0	0.00000	0.67652	0.104
5 Total Tetra-Furans	24.07	1.829e4	2.102e4	1.381e3	1.617e3	0.85	NO	2.999e3	0.75937	0.75937	0.104
6 Total Tetra-Furans	24.94	1.005e4	1.346e4	7.927e2	8.918e2	0.89	YES	0.000e0	0.00000	0.39975	0.104
7 2,3,7,8-TCDF	25.05	1.824e4	2.156e4	1.374e3	1.625e3	0.85	NO	2.998e3	0.75931	0.75931	0.104
8 Total Tetra-Furans	27.17	2.616e3	5.218e3	1.624e2	2.974e2	0.55	YES	0.000e0	0.00000	0.094548	0.104

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 1st Func. Penta-Furans	27.16	3.208e4	2.290e4	2.050e3	1.353e3	1.51	NO	3.403e3	0.91116	0.91116	0.0292

**Penta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Furans	28.79	3.203e4	1.862e4	2.491e3	1.553e3	1.60	NO	4.045e3	1.0831	1.0831	0.140
2 Total Penta-Furans	29.39	1.793e4	1.265e4	1.076e3	8.159e2	1.32	NO	1.892e3	0.50670	0.50670	0.140
3 Total Penta-Furans	29.60	9.968e3	6.039e3	4.057e2	2.646e2	1.53	NO	6.703e2	0.17949	0.17949	0.140
4 1,2,3,7,8-PeCDF	29.80	4.833e4	3.026e4	2.764e3	1.783e3	1.55	NO	4.547e3	1.2149	1.2149	0.144
5 Total Penta-Furans	30.07	1.915e4	1.669e4	1.102e3	6.999e2	1.57	NO	1.802e3	0.48252	0.48252	0.140
6 2,3,4,7,8-PeCDF	30.79	2.365e4	1.681e4	1.244e3	7.996e2	1.56	NO	2.043e3	0.51652	0.51652	0.127
7 Total Penta-Furans	30.83	1.318e4	9.072e3	4.184e2	3.050e2	1.37	NO	7.233e2	0.19369	0.19369	0.140

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Dataset: U:\VG12.PRO\Results\200501R2\200501R2-9.qld

Last Altered: Saturday, May 02, 2020 11:04:28 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:05:06 Pacific Daylight Time

Name: 200501R2\_9, Date: 01-May-2020, Time: 21:32:50, ID: 2000927-08 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421, Task: ST200501R2\_2

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	1.053e4	8.681e3	5.778e2	4.649e2	1.24	NO	1.043e3	0.40172	0.40172	0.105
2	Total Hexa-Furans	32.62	2.987e4	2.653e4	1.587e3	1.255e3	1.26	NO	2.841e3	1.0946	1.0946	0.105
3	Total Hexa-Furans	33.15	4.795e4	3.632e4	2.310e3	1.954e3	1.18	NO	4.264e3	1.6426	1.6426	0.105
4	1,2,3,4,7,8-HxCDF	33.62	5.355e4	4.787e4	2.842e3	2.383e3	1.19	NO	5.225e3	2.0427	2.0427	0.0923
5	Total Hexa-Furans	33.66	1.174e4	7.442e3	1.641e2	1.324e2	1.24	NO	2.965e2	0.11422	0.11422	0.105
6	1,2,3,6,7,8-HxCDF	33.74	1.702e4	1.369e4	8.053e2	7.821e2	1.03	YES	1.587e3	0.00000	0.49912	0.0937
7	2,3,4,6,7,8-HxCDF	34.29	6.515e3	6.141e3	4.090e2	2.856e2	1.43	YES	6.946e2	0.00000	0.24713	0.104
8	1,2,3,7,8,9-HxCDF	35.21	4.704e3	3.841e3	1.876e2	1.372e2	1.37	NO	3.248e2	0.17023	0.17023	0.164
9	Total Hexa-Furans	35.23	5.594e3	5.545e3	2.377e2	2.222e2	1.07	NO	4.598e2	0.17715	0.17715	0.105

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.93	3.380e4	3.589e4	2.567e3	2.595e3	0.99	NO	5.162e3	2.8991	2.8991	0.150
2	Total Hepta-Furans	37.52	7.279e4	7.647e4	5.640e3	5.625e3	1.00	NO	1.126e4	7.8989	7.8989	0.182
3	1,2,3,4,7,8,9-HpCDF	38.95	3.861e3	4.208e3	2.026e2	2.360e2	0.86	YES	4.386e2	0.00000	0.31926	0.204

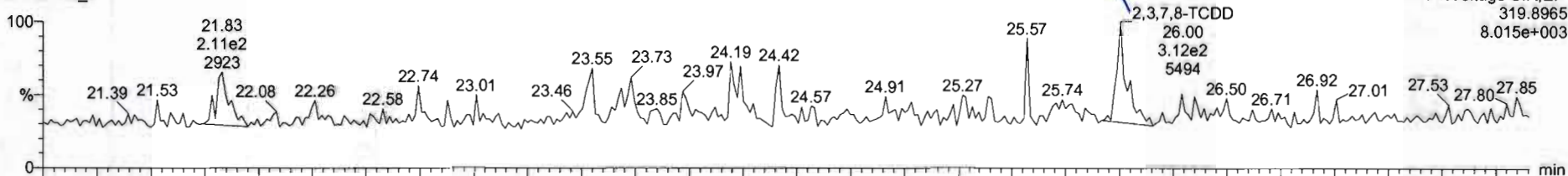
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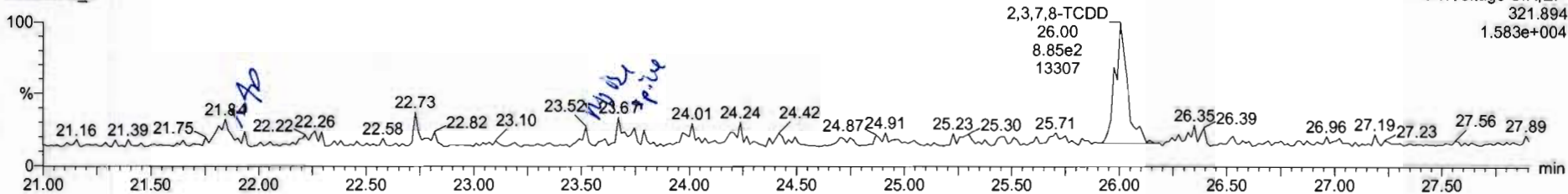
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2,3,7,8-TCDD

200501R2\_9

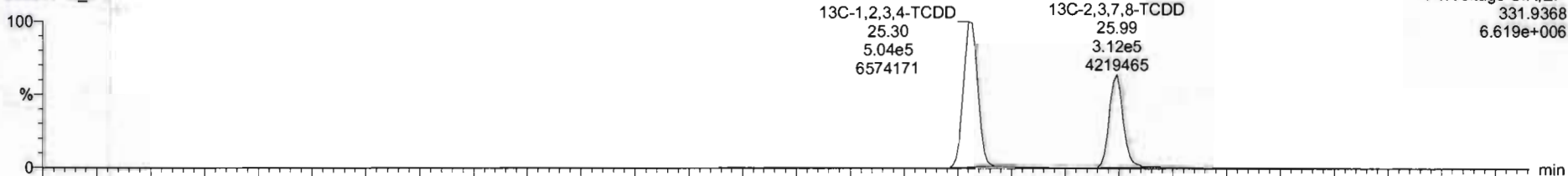


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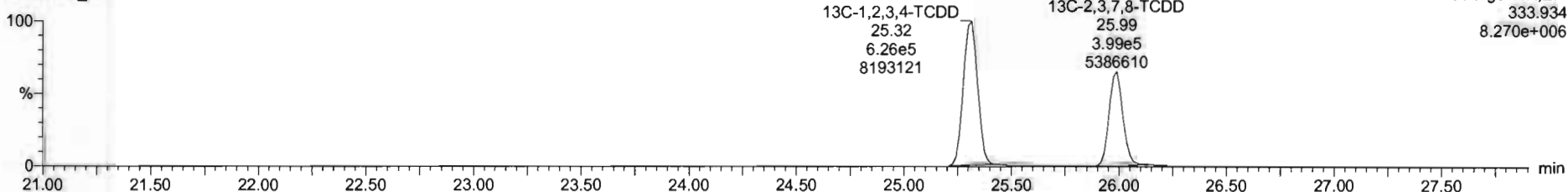


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200501R2\_9



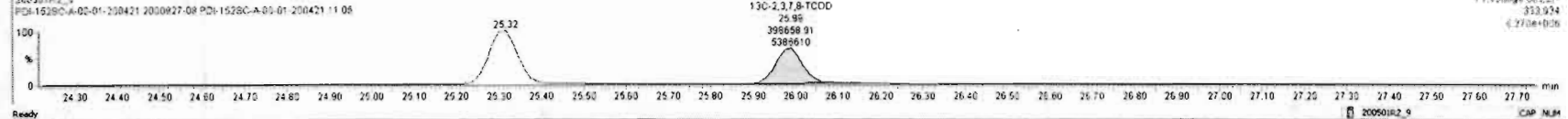
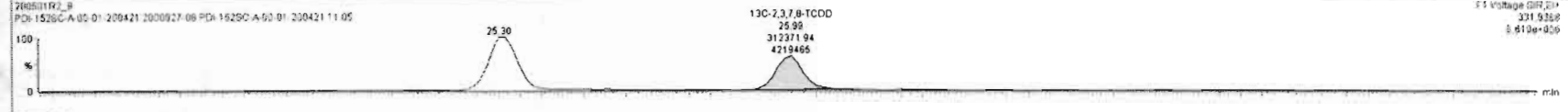
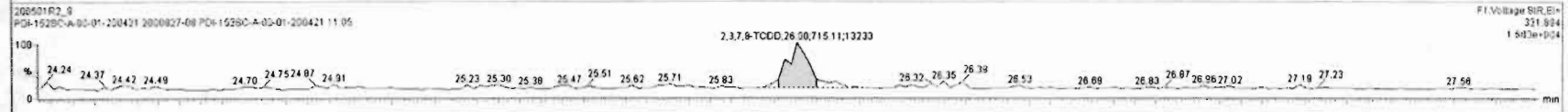
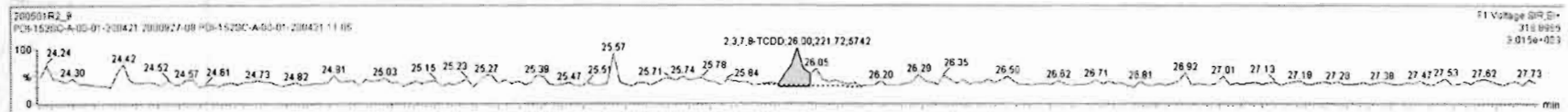
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200501R2\_9 - 2000927-08 PDI-152SC-A-00-01-200421 11:05 - PDI-152SC-A-00-01-200421

#	Name	Resp	RA	n/y	RRF	wt/ol	RT	RRT	Conc	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	2.45e5	0.41	NO	0.48	10.020	39.93	1.145	85.7	44.5	0.607	
34	13C-OCDF	4.28e5	0.89	NO	0.67	10.020	41.51	1.222	114	28.7	0.267	
35	37Cl-2,3,7,8-TCDD	3.28e5			1.10	10.020	26.00	1.028	52.7	86.0	0.0595	
36	13C-1,2,3,4-TCDD	1.13e6	0.81	NO	1.00	10.020	25.30	1.000	200	100	0.252	
37	13C-1,2,3,4-TCDF	1.77e6	0.79	NO	1.00	10.020	23.52	1.000	200	100	0.360	
38	13C-1,2,3,4,6,9-HpCDF	1.15e6	0.52	NO	1.00	10.020	33.98	1.000	200	100	0.390	
39	Total Tetra-Dioxins				0.95	10.020			0.000	0.0520	0.151	
40	Total Penta-Dioxins				0.34	10.020			0.000	0.0610	0.332	
41	Total Hexa-Dioxins				0.91	10.020			12.01	0.223	13.1	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	2,3,7,8-TCDD	26.00	2.217e2	7.151e2	0.31	YES	0.15101	0.00000



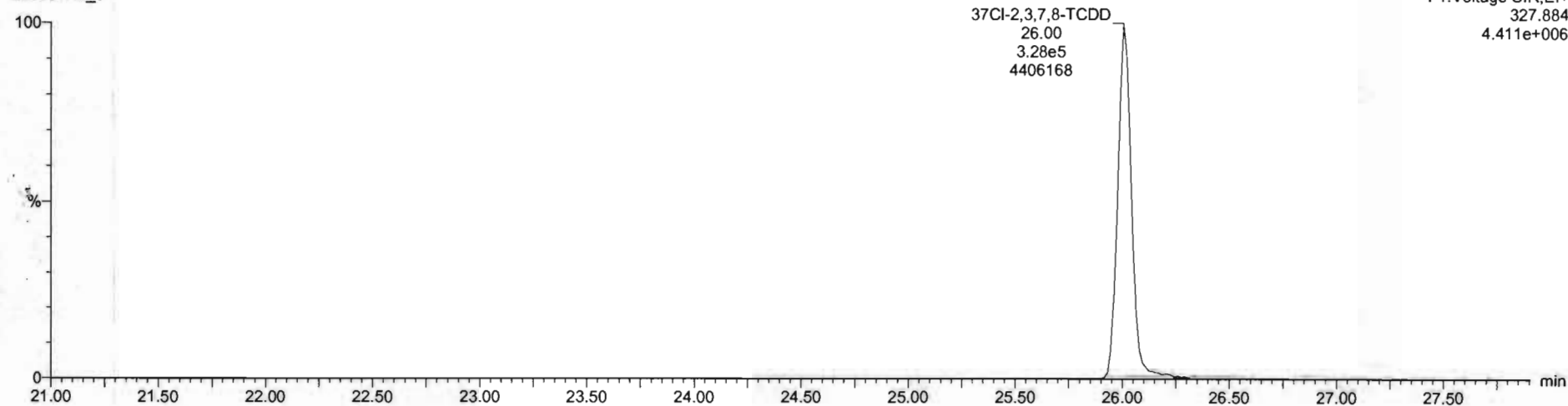
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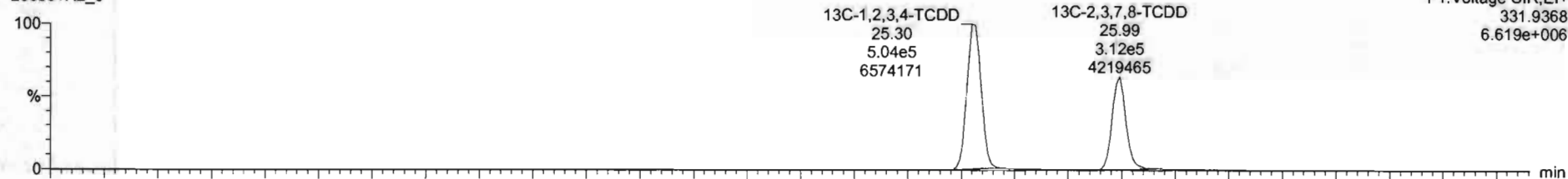
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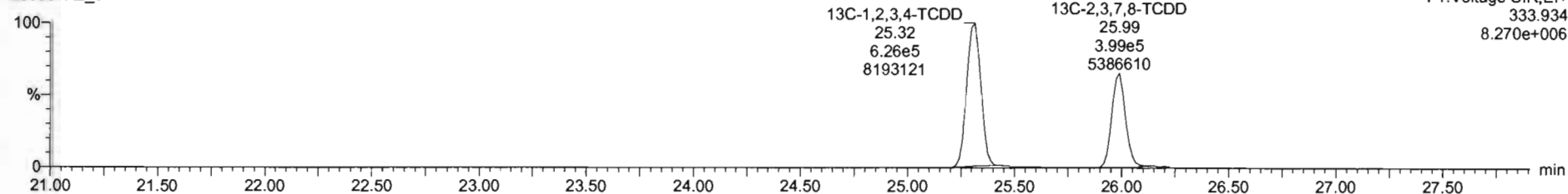


**13C-1,2,3,4-TCDD**

200501R2\_9



200501R2\_9





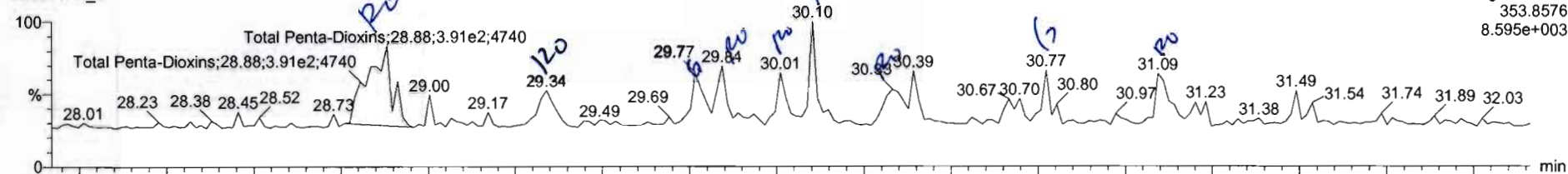
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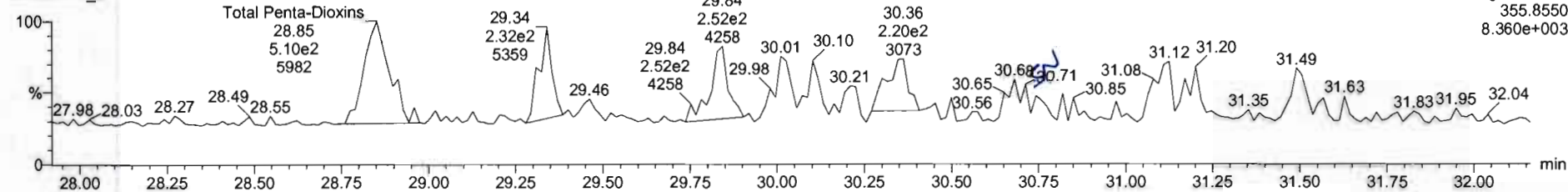
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1,2,3,7,8-PeCDD

200501R2\_9

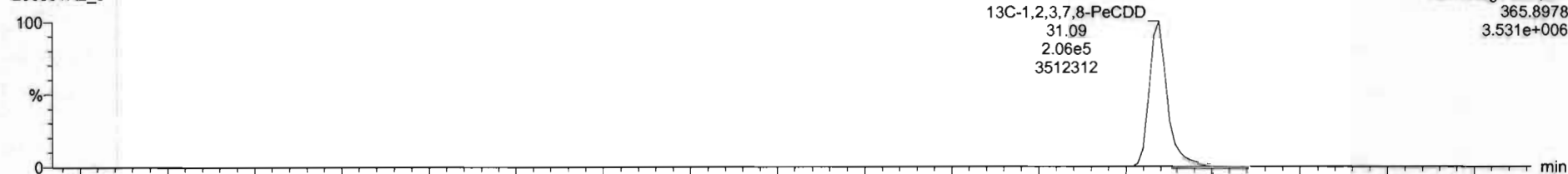


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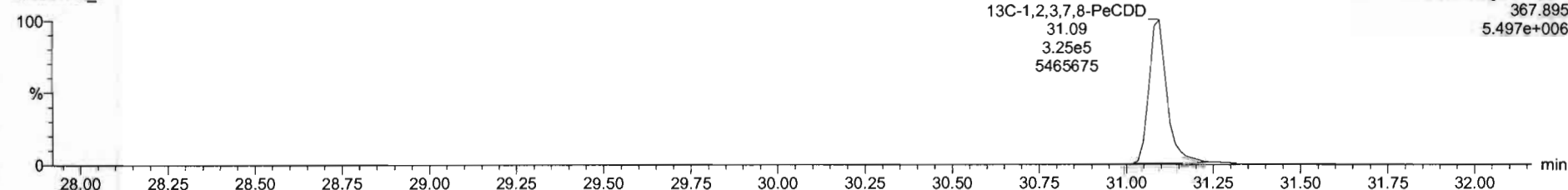


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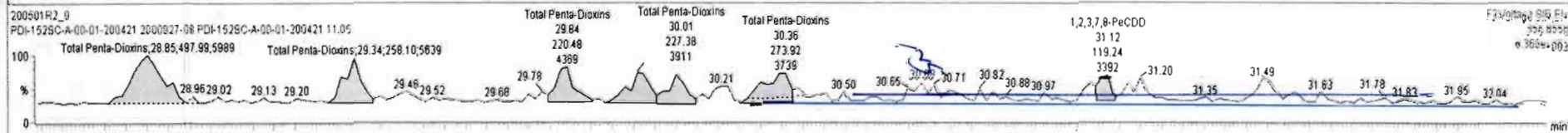
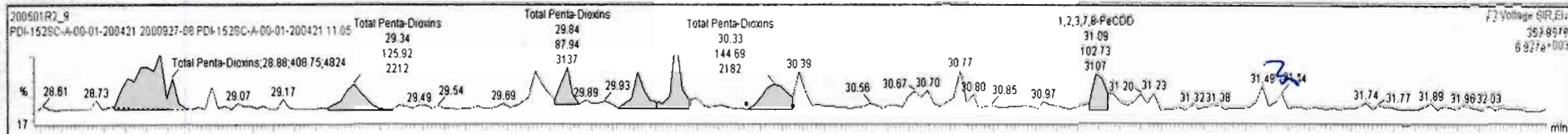


200501R2\_9



Name	Resp	RA	n/y	RRF	wtAol	RT	RRT	Conc.	%Rec	DL	EMPC
24 13C-OCDD	3.95e5	0.90	NO	0.59	10.020	41.33	1.216	117	29.4	0.335	
25 13C-2,3,7,8-TCDF	1.00e6	0.78	NO	1.03	10.020	25.03	0.989	109	54.5	0.348	
26 13C-1,2,3,7,8-PeCDF	8.46e5	1.63	NO	0.85	10.020	29.78	1.177	113	56.4	0.482	
27 13C-2,3,4,7,8-PeCDF	8.17e5	1.59	NO	0.81	10.020	30.77	1.216	113	56.6	0.500	
28 13C-1,2,3,4,7,8-HxCDF	5.81e5	0.51	NO	1.00	10.020	33.80	0.989	101	50.5	0.378	
29 13C-1,2,3,6,7,8-HxCDF	6.66e5	0.52	NO	1.14	10.020	33.72	0.992	102	51.1	0.334	
30 13C-2,3,4,6,7,8-HxCDF	5.61e5	0.52	NO	1.02	10.020	34.29	1.009	95.6	47.9	0.371	
31 13C-1,2,3,7,8,9-HxCDF	4.41e5	0.51	NO	0.84	10.020	35.18	1.035	90.9	45.5	0.448	
32 13C-1,2,3,4,6,7,8-HpCDF	4.08e5	0.42	NO	0.77	10.020	36.91	1.086	92.2	46.2	0.379	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.88	4.087e2	4.980e2	0.82	YES	0.32401	0.00000
2 Total Penta-Dioxins	29.34	1.259e2	2.581e2	0.49	YES	0.13004	0.00000
3 Total Penta-Dioxins	29.84	8.794e1	2.205e2	0.40	YES	0.090823	0.00000
4 Total Penta-Dioxins	30.01	1.045e2	2.274e2	0.46	YES	0.10788	0.00000
5 Total Penta-Dioxins	30.10	1.503e2	1.787e2	0.84	YES	0.11624	0.00000
6 Total Penta-Dioxins	30.33	1.447e2	2.739e2	0.53	YES	0.14944	0.00000
7 1,2,3,7,8-PeCDD	31.09	1.027e2	1.192e2	0.86	YES	0.077583	0.00000



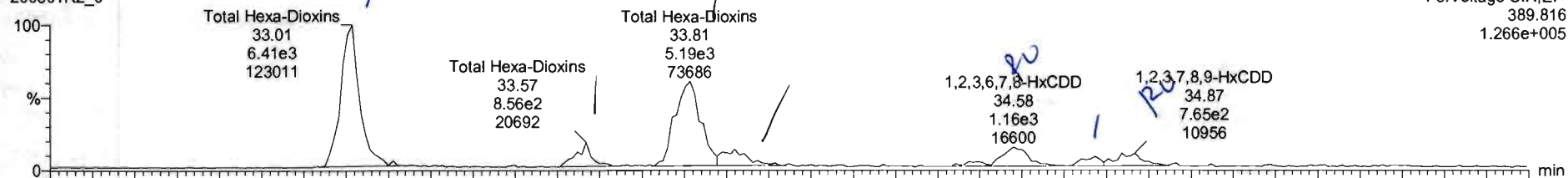
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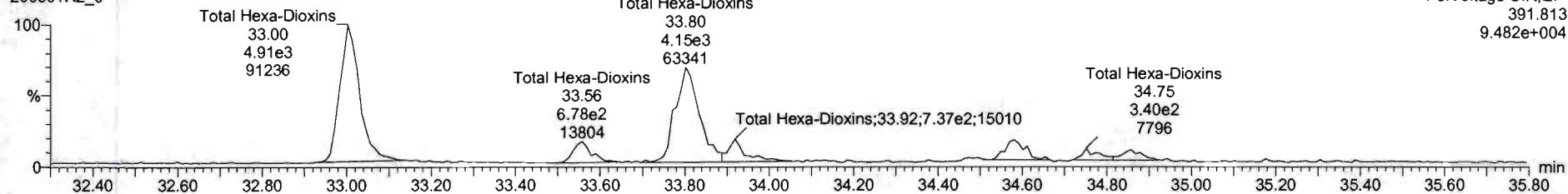
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1,2,3,4,7,8-HxCDD

200501R2\_9

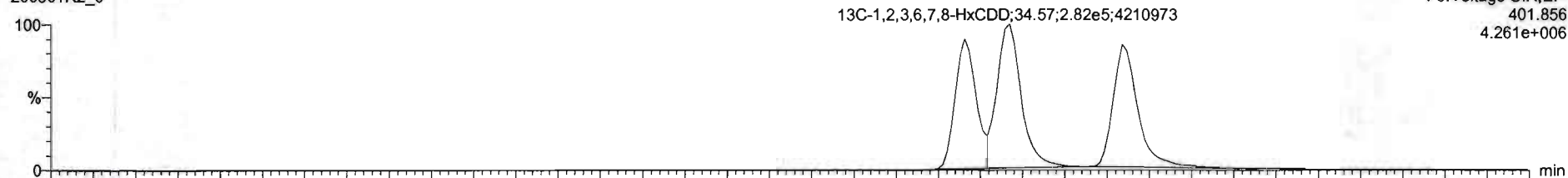


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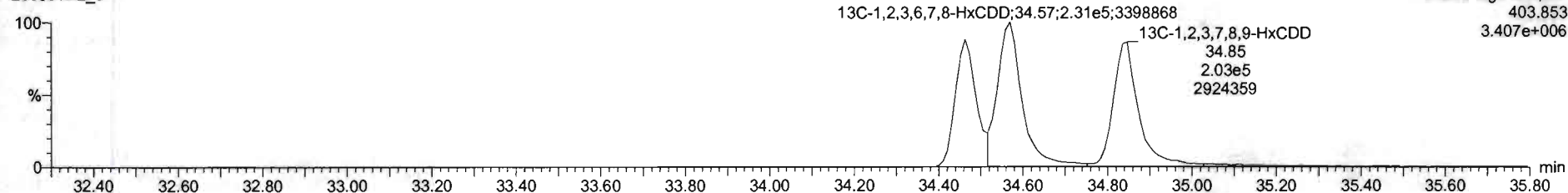


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200501R2\_9

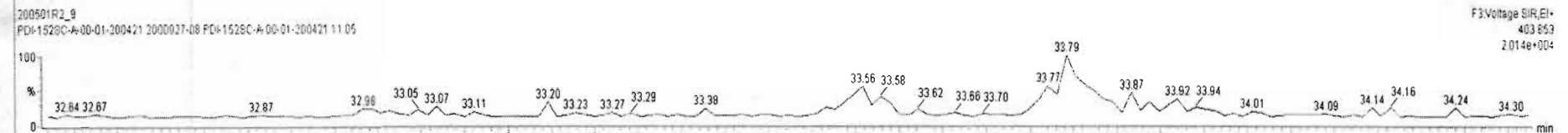
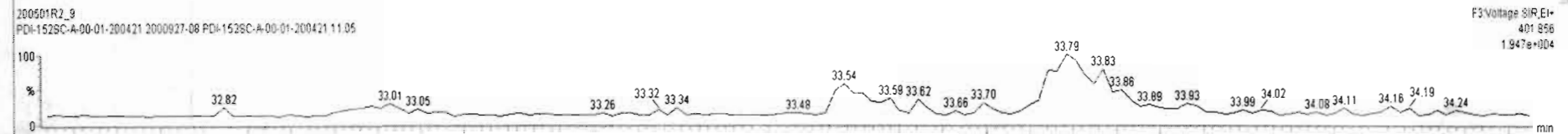
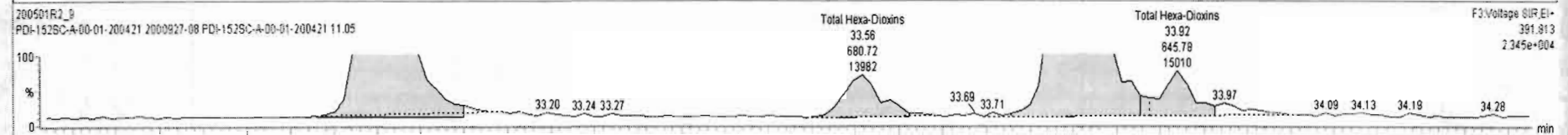
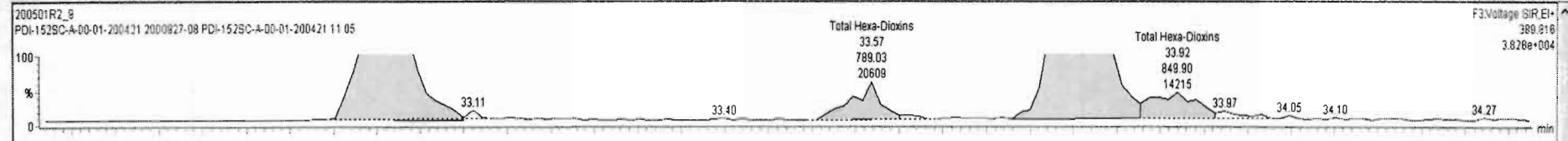


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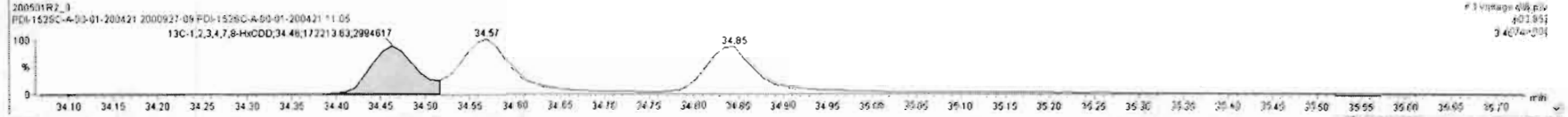
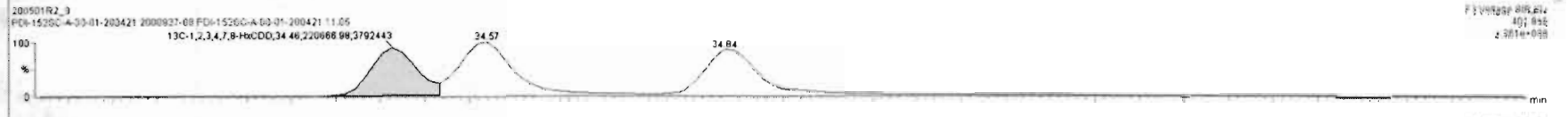
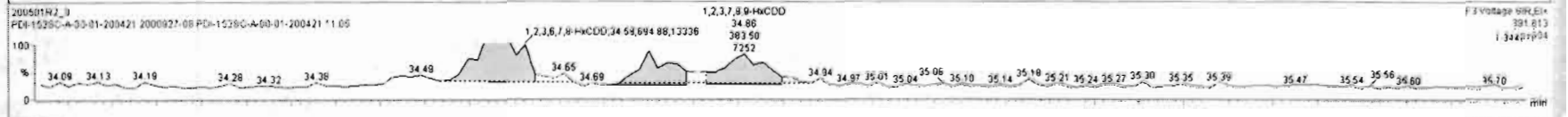
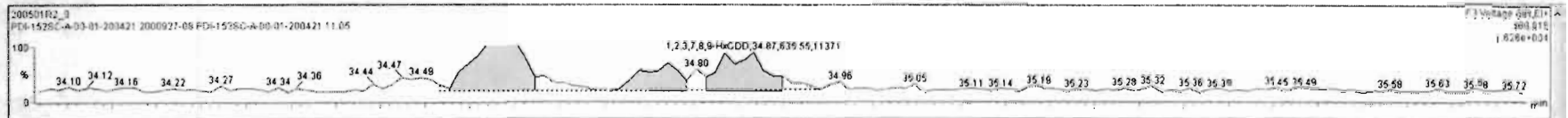
Name	Resp	RA	n/y	RRF	wtVol	RT	PRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.91	10.020			11.8		0.223	12.8
42 Total Hexa-Dioxins				0.90	10.020			114		0.641	114
43 Total Tetra-Furans				0.79	10.020			2.33		0.104	3.36
44 1st Func. Penta-Furans				0.91	10.020			0.897		0.0293	0.897
45 Total Penta-Furans				0.91	10.020			4.42		0.140	4.42
46 Total Hexa-Furans				0.92	10.020			5.96		0.105	6.42
47 Total Hepta-Furans				0.87	10.020			11.0		0.182	11.0
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.01	6.421e3	4.996e3	1.29	NO	5.5407	5.5407
2 Total Hexa-Dioxins	33.57	7.890e2	6.807e2	1.16	NO	0.71334	0.71334
3 Total Hexa-Dioxins	33.81	5.189e3	4.053e3	1.28	NO	4.4858	4.4858
4 Total Hexa-Dioxins	33.92	8.499e2	6.458e2	1.32	NO	0.72592	0.72592
5 1,2,3,6,7,8-HxCDD	34.58	1.012e3	6.949e2	1.46	YES	0.66239	0.00000
6 Total Hexa-Dioxins	34.77	3.746e2	2.861e2	1.31	NO	0.32066	0.32066
7 1,2,3,7,8,9-HxCDD	34.87	6.201e2	3.624e2	1.71	YES	0.39947	0.00000



Name	Resp	RA	nHy	RHF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
28 13C-1,2,3,4,7,8-HxCDF	5.81e5	0.51	NO	1.00	10.020	33.60	0.989	101	50.5	0.378	
29 13C-1,2,3,6,7,8-HxCDF	6.86e5	0.52	NO	1.14	10.020	33.72	0.992	102	51.1	0.334	
30 13C-2,3,4,6,7,8-HxCDF	5.81e5	0.52	NO	1.02	10.020	34.29	1.009	95.6	47.9	0.371	
31 13C-1,2,3,7,8,9-HxCDF	4.41e5	0.51	NO	0.84	10.020	35.18	1.035	90.9	45.5	0.449	
32 13C-1,2,3,4,6,7,8-HxCDF	4.08e5	0.42	NO	0.77	10.020	36.91	1.086	92.2	46.2	0.379	
33 13C-1,2,3,4,7,8,9-HxCDF	2.48e5	0.41	NO	0.48	10.020	38.83	1.145	86.7	44.5	0.607	
34 13C-OCDF	4.39e5	0.89	NO	0.67	10.020	41.51	1.222	114	29.7	0.267	
35 37Cl-2,3,7,8-TCDD	3.28e5			1.10	10.020	26.00	1.028	52.7	66.0	0.0585	
36 13C-1,2,3,4-TCDD	1.13e6	0.81	NO	1.00	10.020	25.30	1.000	200	100	0.252	

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc
1 Total Hexa-Dioxins	33.01	6.421e3	4.996e3	1.29	NO	5.5407	5.5407
2 Total Hexa-Dioxins	33.67	7.890e2	6.807e2	1.16	NO	0.71324	0.71324
3 Total Hexa-Dioxins	33.81	5.189e3	4.053e3	1.28	NO	4.4858	4.4858
4 Total Hexa-Dioxins	33.92	8.499e2	6.458e2	1.32	NO	0.72592	0.72592
5 1,2,3,6,7,8-HxCDD	34.58	1.012e3	6.949e2	1.46	YES	0.66239	0.00000
6 Total Hexa-Dioxins	34.77	3.974e2	3.338e2	1.19	NO	0.35491	0.35491
7 1,2,3,7,8,9-HxCDD	34.87	6.355e2	3.835e2	1.66	YES	0.42273	0.00000



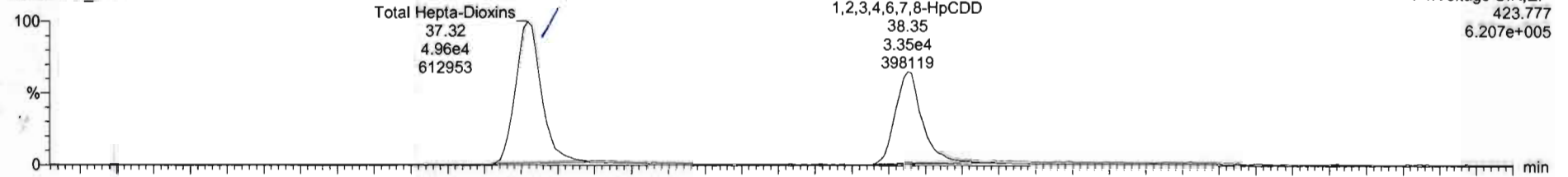
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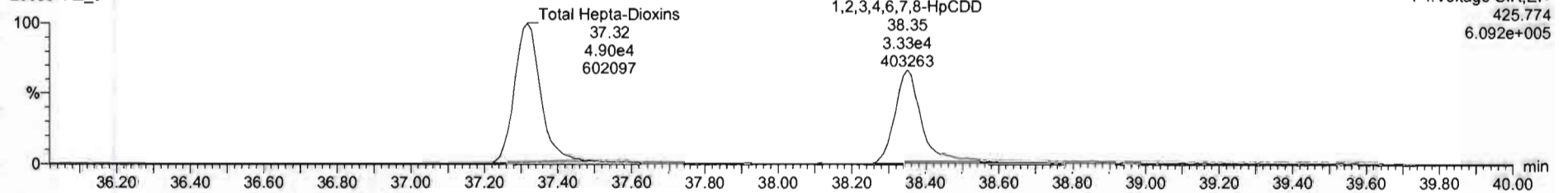
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**1,2,3,4,6,7,8-HpCDD**

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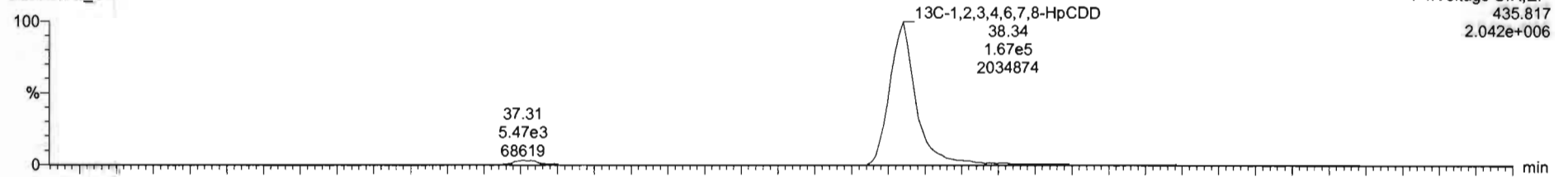


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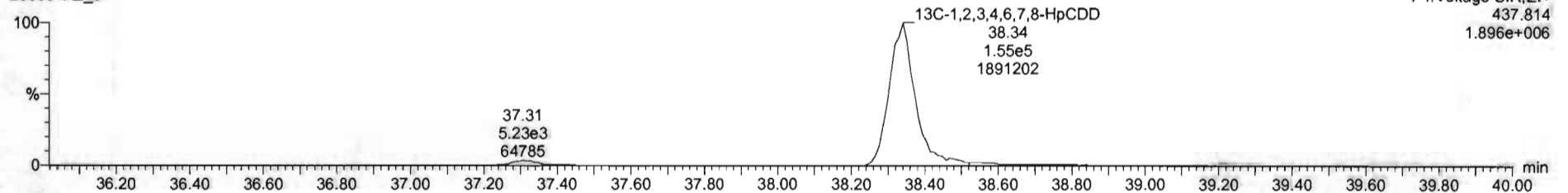


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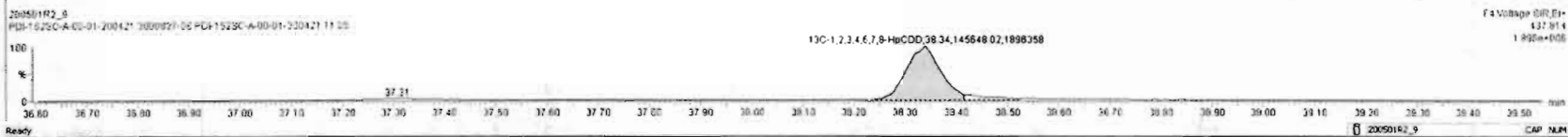
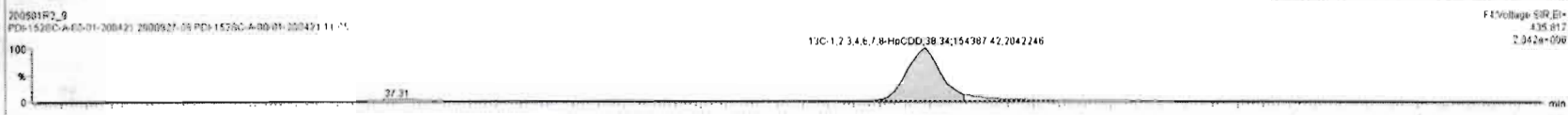
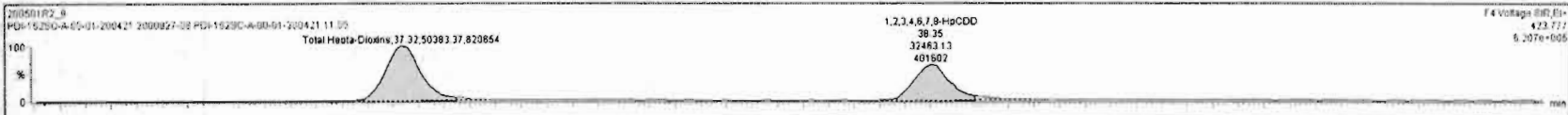


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Name	Resp	RA	n/y	RPF	ndArea	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hepta-Dioxins				0.91	10.020			11.8	0.223	12.9	
42 Total Hepta-Dioxins				0.90	10.020			121	0.634	121	
43 Total Tetra-Furans				0.79	10.020			2.33	0.104	3.30	
44 1st Func. Penta-Furans				0.91	10.020			0.997	0.0293	0.997	
45 Total Penta-Furans				0.91	10.020			4.42	0.140	4.42	
46 Total Hexa-Furans				0.92	10.020			5.96	0.105	6.42	
47 Total Hexa-Furans				0.87	10.020			11.0	0.182	11.0	
48 PPK1											
49 PPK2											

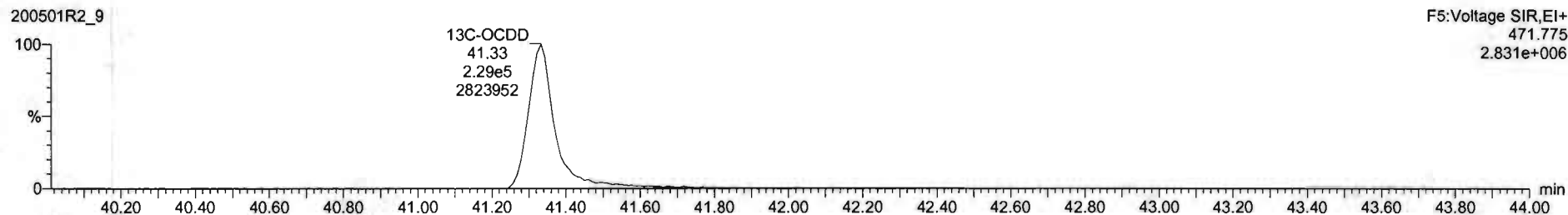
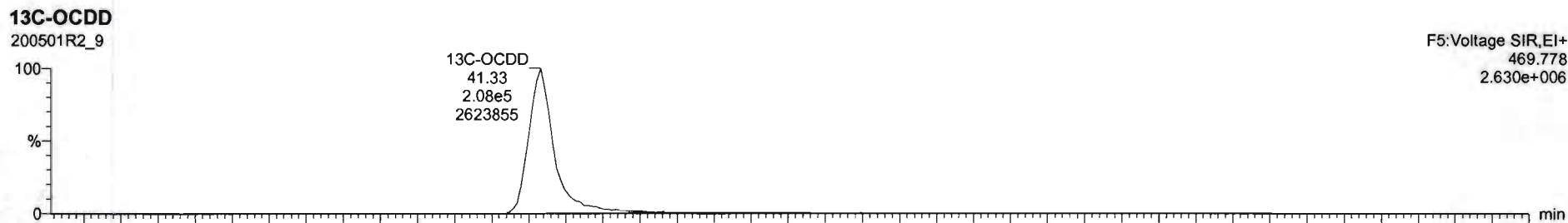
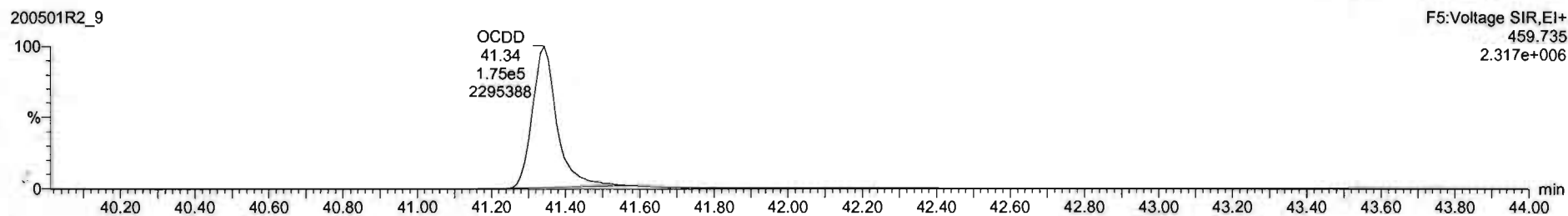
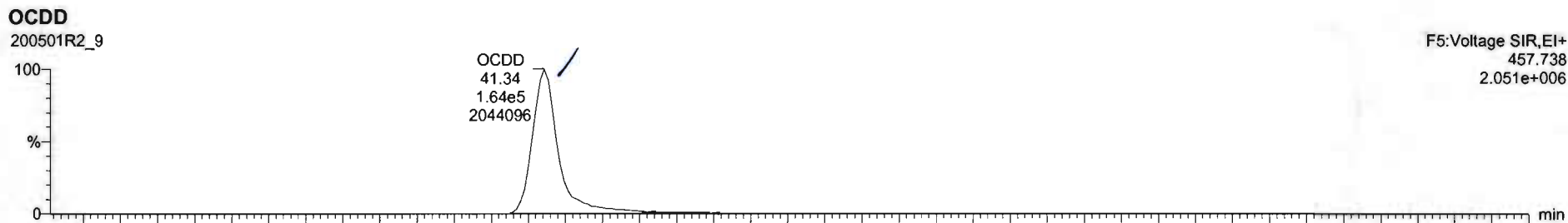
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	37.32	5.036e4	4.980e4	1.01	NO	74.220	74.220
2 1,2,3,4,6,7,8-HxCDD	38.35	3.246e4	3.028e4	1.07	NO	46.487	46.487



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Name: 200501R2\_9, Date: 01-May-2020, Time: 21:32:50, ID: 2000927-08 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421

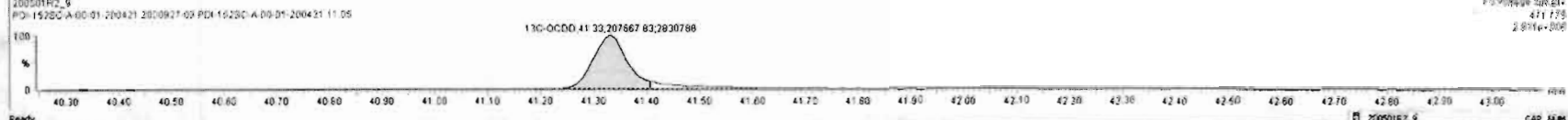




200501R2\_9 - 2000927-08 PDI-152SC-A-00-01-200421 11.05 - PDI-152SC-A-00-01-200421

Name	Resp	RA	rvy	RRF	wtHol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDF	1.20e3	0.35	YES	0.95	10.020	26.00	1.001	0.354		0.116	0.213
2 1,2,3,7,8-PeCDF			NO	0.94	10.020						0.135
3 1,2,3,4,7,8-HxCDF			NO	1.06	10.020						0.199
4 1,2,3,6,7,8-HxCDF	1.91e3	1.55	YES	0.91	10.020	34.58	1.000	0.812		0.204	0.714
5 1,2,3,7,8,9-HxCDF	1.14e3	2.01	YES	0.91	10.020	34.87	1.001	0.563		0.227	0.419
6 1,2,3,4,6,7,8-HpCDF	6.88e4	1.01	NO	0.93	10.020	36.35	1.000	46.1		0.641	46.1
7 OCDF	3.15e5	0.99	NO	0.93	10.020	41.34	1.000	341		0.761	341
8 2,3,7,8-TCDF	3.12e3	0.91	YES	0.79	10.020	25.05	1.001	0.799		0.104	0.732
9 1,2,3,7,8-PeCDF	4.74e3	1.63	NO	0.91	10.020	29.80	1.001	1.23		0.145	1.23

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1							

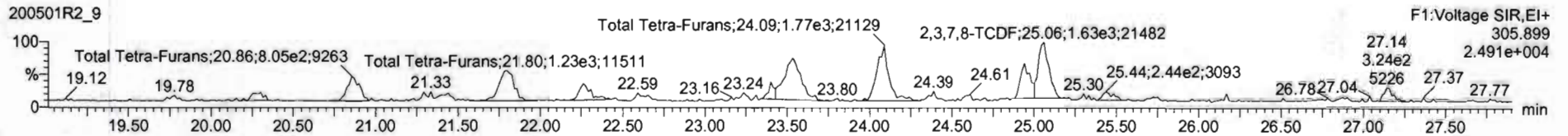
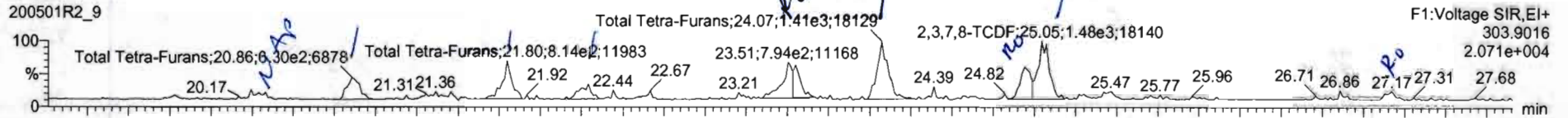


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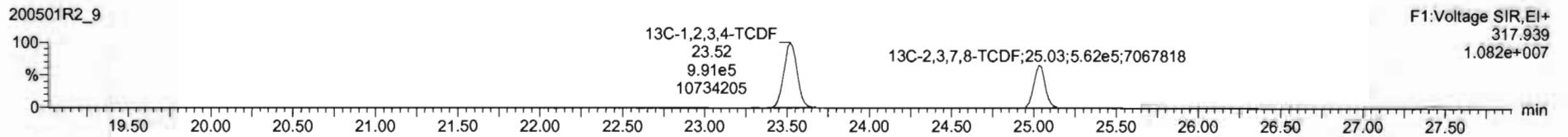
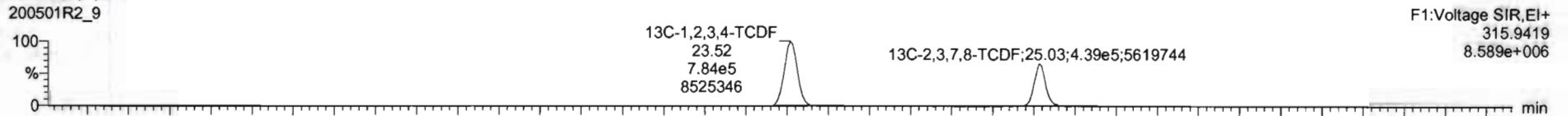
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Name: 200501R2\_9, Date: 01-May-2020, Time: 21:32:50, ID: 2000927-08 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421

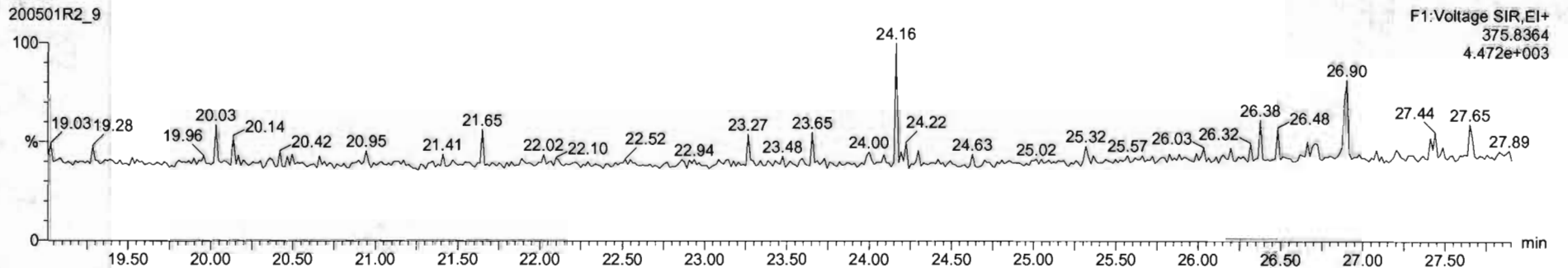
**2,3,7,8-TCDF**



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

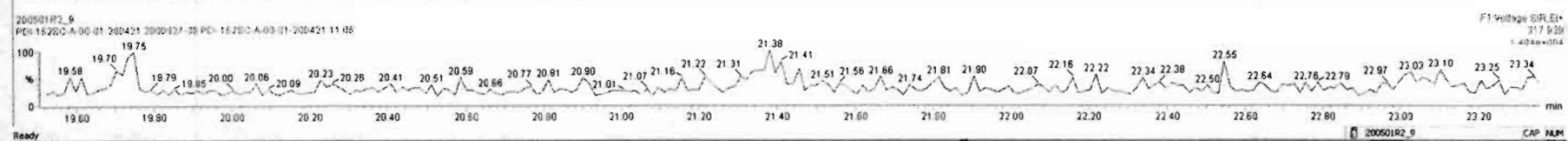
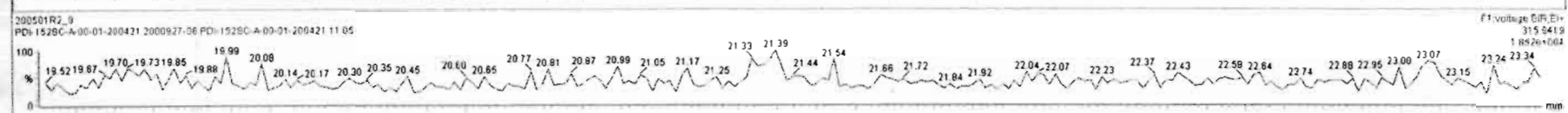
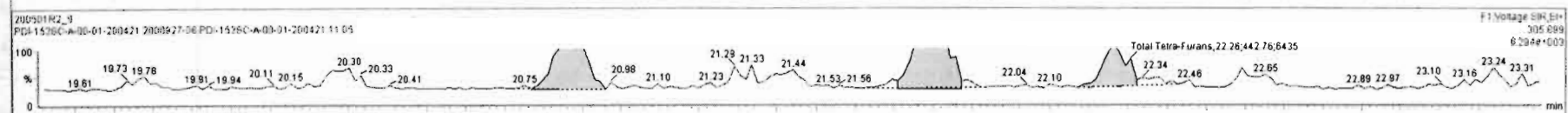
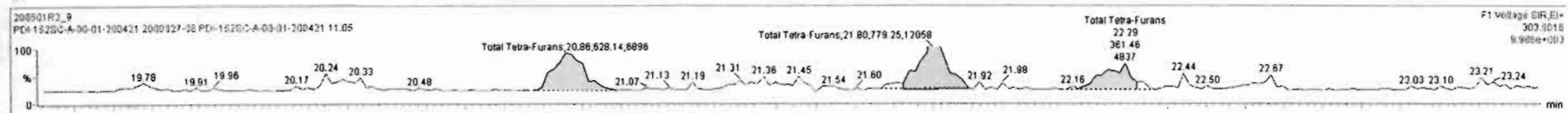


**DPE1**



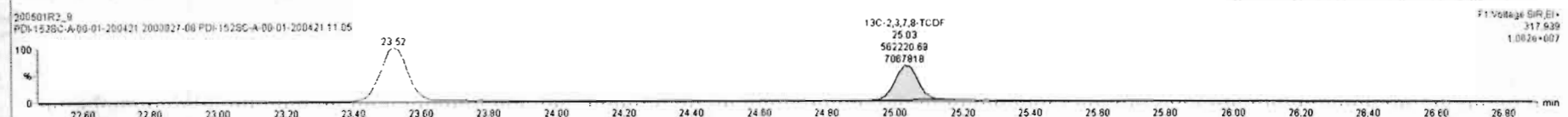
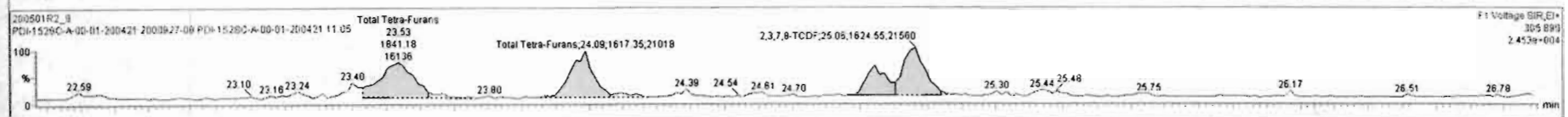
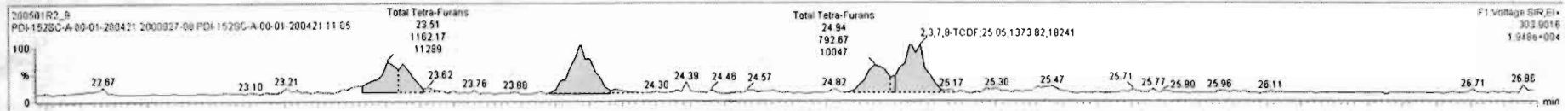
Name	Resp	RA	rvy	RFF	WtAol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.91	10.020			11.8	0.223	12.9	
42 Total Hepta-Dioxins				0.90	10.020			121	0.634	121	
43 Total Tetra-Furans				0.79	10.020			2.57	0.104	3.65	
44 1st Func. Penta-Furans				0.91	10.020			0.897	0.0293	0.897	
45 Total Penta-Furans				0.91	10.020			4.42	0.140	4.42	
46 Total Hexa-Furans				0.92	10.020			5.96	0.105	6.42	
47 Total Hepta-Furans				0.87	10.020			11.0	0.182	11.0	
48 PPK1											
49 PPK2											

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Tetra-Furans	20.86	6.281e2	7.950e2	0.79	NO	0.36060	0.36060
2 Total Tetra-Furans	21.80	7.793e2	1.156e3	0.87	NO	0.49019	0.49019
3 Total Tetra-Furans	22.29	3.615e2	4.428e2	0.82	NO	0.20366	0.20366
4 Total Tetra-Furans	23.51	1.162e3	1.841e3	0.83	YES	0.67652	0.00000
5 Total Tetra-Furans	24.07	1.381e3	1.617e3	0.85	NO	0.75937	0.75937
6 Total Tetra-Furans	24.94	8.092e2	8.916e2	0.91	YES	0.39975	0.00000
7 2,3,7,8-TCDF	25.05	1.374e3	1.625e3	0.85	NO	0.75931	0.75931



Name	Resp	RA	nV	RRF	wt/mol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.91	10.020			11.8		0.223	12.9
42 Total Hepta-Dioxins				0.90	10.020			121		0.634	121
43 Total Tetra-Furans				0.79	10.020			2.57		0.104	3.65
44 1st Func. Penta-Furans				0.91	10.020			0.897		0.0293	0.897
45 Total Penta-Furans				0.91	10.020			4.42		0.140	4.42
46 Total Hexa-Furans				0.92	10.020			5.96		0.105	6.42
47 Total Hepta-Furans				0.87	10.020			11.0		0.182	11.0
48 PFK1											
49 PFK2											

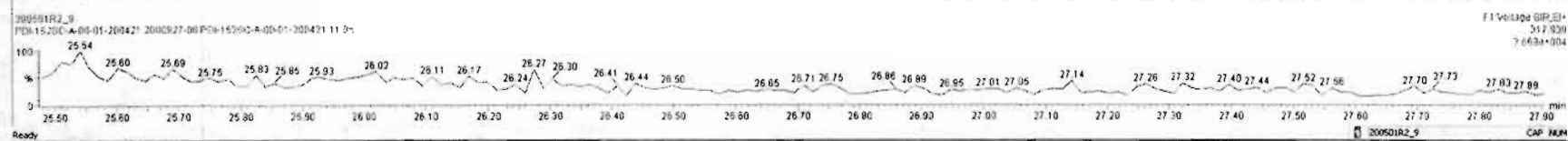
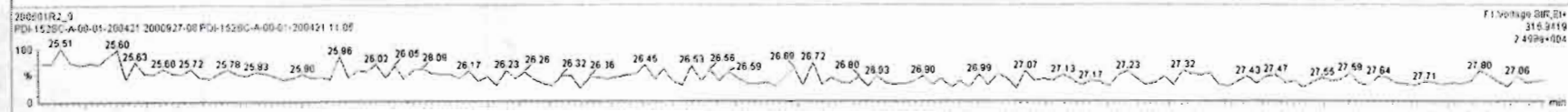
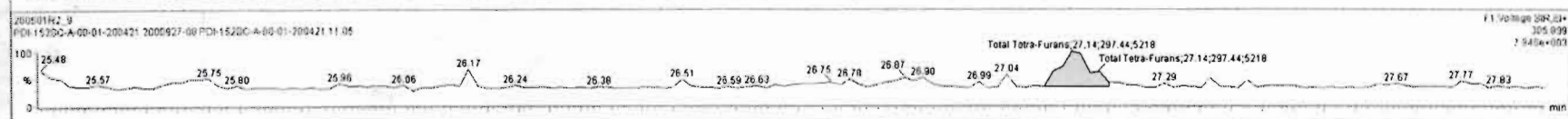
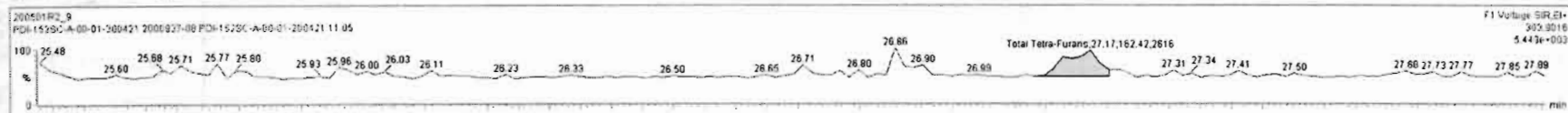
Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1 Total Tetra-Furans	20.86	6.281e2	7.958e2	0.79	NO	0.36060	0.36060
2 Total Tetra-Furans	21.80	7.793e2	1.156e3	0.67	NO	0.49019	0.49019
3 Total Tetra-Furans	22.29	3.615e2	4.428e2	0.82	NO	0.20366	0.20366
4 Total Tetra-Furans	23.51	1.162e3	1.841e3	0.63	YES	0.67652	0.00000
5 Total Tetra-Furans	24.07	1.381e3	1.617e3	0.86	NO	0.75937	0.75937
6 Total Tetra-Furans	24.94	7.927e2	8.918e2	0.88	YES	0.39975	0.00000
7 2,3,7,8-TCDF	25.05	1.374e3	1.625e3	0.86	NO	0.75931	0.75931



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Name	Resp	RA	n/y	RRF	wfVol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.91	10.020			11.6	0.223	12.9	
42 Total Hepta-Dioxins				0.90	10.020			1.21	0.634	1.21	
43 Total Tetra-Furans				0.79	10.020			2.57	0.104	3.74	
44 1st Func. Penta-Furans				0.91	10.020			0.897	0.0293	0.897	
45 Total Penta-Furans				0.91	10.020			4.42	0.140	4.42	
46 Total Hexa-Furans				0.92	10.020			5.96	0.105	6.42	
47 Total Hepta-Furans				0.87	10.020			11.0	0.182	11.3	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.06	6.281e2	7.959e2	0.79	NO	0.36000	0.36000
2 Total Tetra-Furans	21.80	7.793e2	1.156e3	0.67	NO	0.49018	0.49019
3 Total Tetra-Furans	22.29	3.615e2	4.420e2	0.82	NO	0.20368	0.20366
4 Total Tetra-Furans	23.51	1.162e3	1.841e3	0.63	YES	0.87682	0.00000
5 Total Tetra-Furans	24.07	1.381e3	1.617e3	0.85	NO	0.75937	0.75937
6 Total Tetra-Furans	24.94	7.907e2	8.918e2	0.89	YES	0.39975	0.00000
7 2,3,7,8-TCDF	25.05	1.374e3	1.625e3	0.85	NO	0.75931	0.75931
8 Total Tetra-Furans	27.17	1.624e2	2.974e2	0.55	YES	0.094549	0.00000



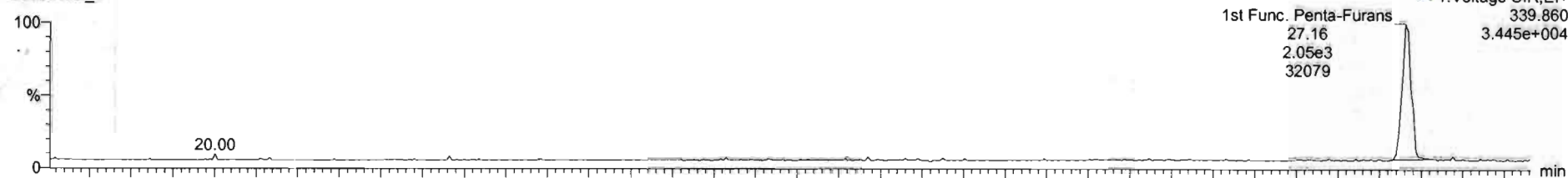
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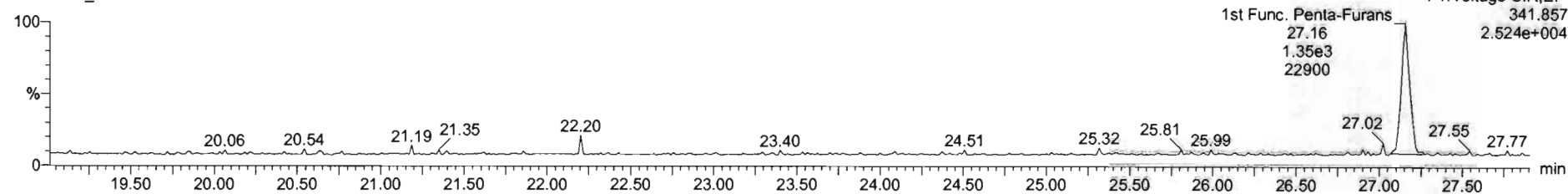
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1st Func. Penta-Furans

200501R2\_9

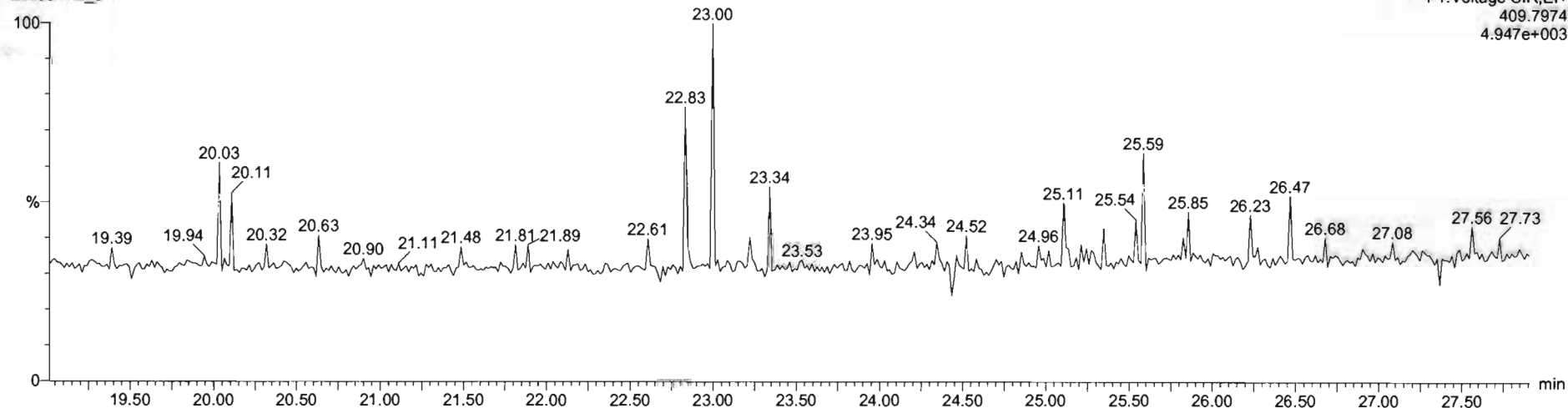


200501R2\_9



DPE6

200501R2\_9

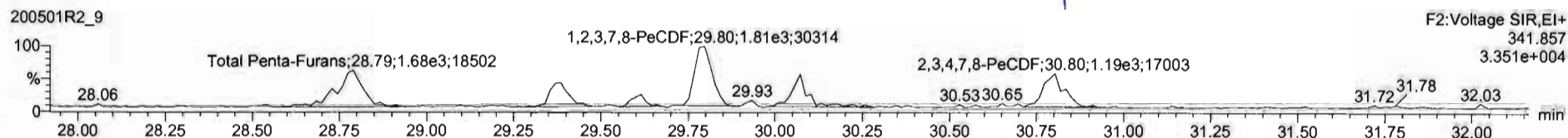
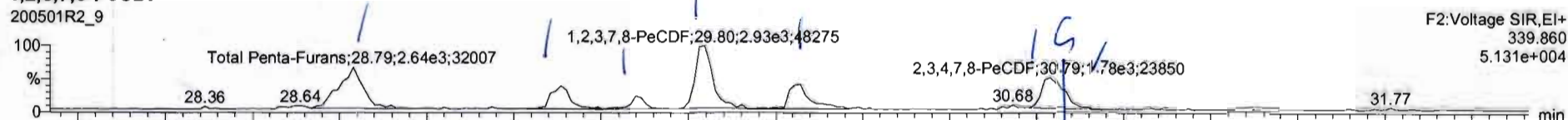


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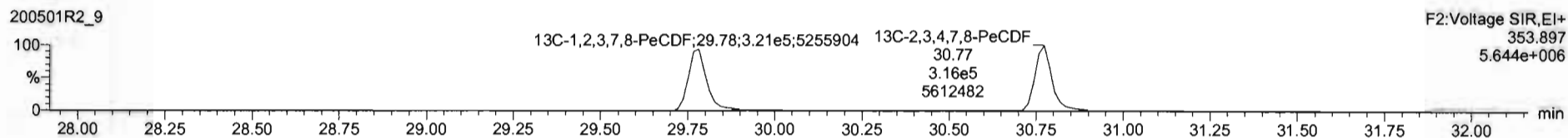
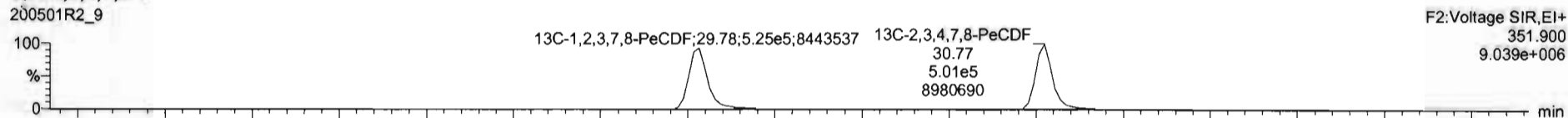
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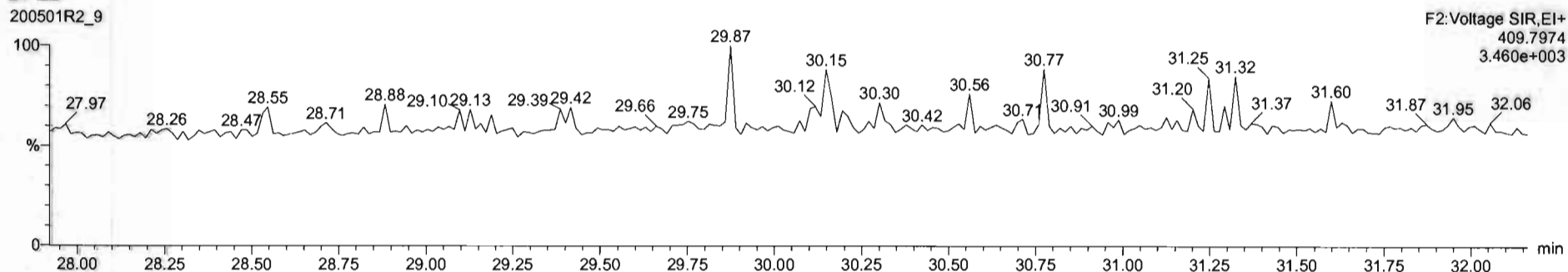
**1,2,3,7,8-PeCDF**



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

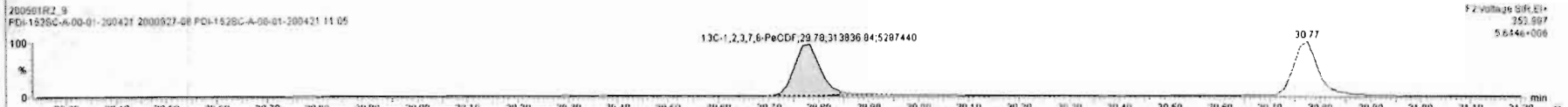
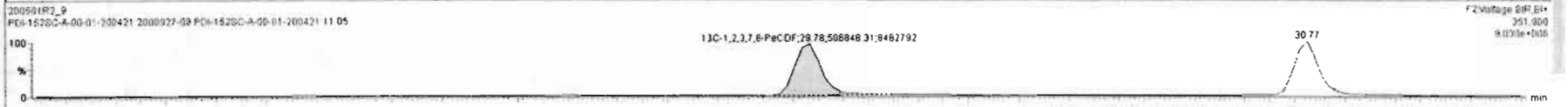
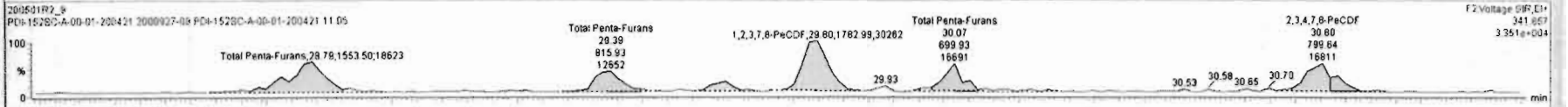
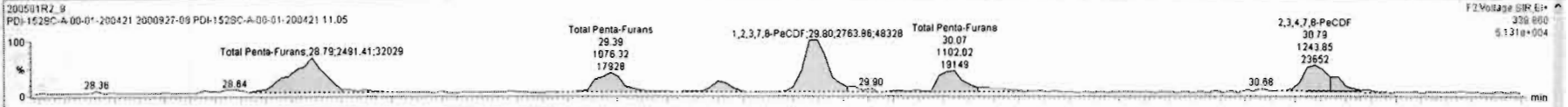


**DPE2**



Name	Resp	RA	n/y	RRF	wt/mol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.91	10.020			11.8	0.223	12.9	
42 Total Hexa-Dioxins				0.90	10.020			121	0.634	121	
43 Total Tetra-Furans				0.79	10.020			2.57	0.104	3.74	
44 1st Func. Penta-Furans				0.91	10.020			0.911	0.0292	0.911	
45 Total Penta-Furans				0.91	10.020			4.18	0.140	4.18	
46 Total Hexa-Furans				0.92	10.020			5.96	0.105	5.42	
47 Total Hexa-Furans				0.87	10.020			11.0	0.182	11.0	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.79	2.491e3	1.553e3	1.60	NO	1.0831	1.0831
2 Total Penta-Furans	29.39	1.076e3	8.159e2	1.32	NO	0.50670	0.50670
3 Total Penta-Furans	29.60	4.057e2	2.646e2	1.53	NO	0.17949	0.17949
4 1,2,3,7,8-PeCDF	29.80	2.764e3	1.783e3	1.55	NO	1.2149	1.2149
5 Total Penta-Furans	30.07	1.102e3	6.999e2	1.57	NO	0.48252	0.48252
6 2,3,4,7,8-PeCDF	30.79	1.244e3	7.996e2	1.56	NO	0.51852	0.51852
7 Total Penta-Furans	30.83	4.184e2	3.050e2	1.37	NO	0.19369	0.19369

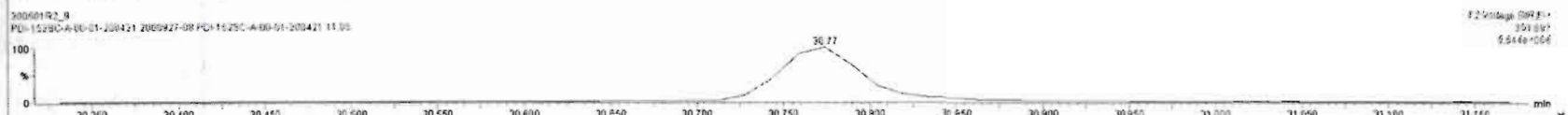
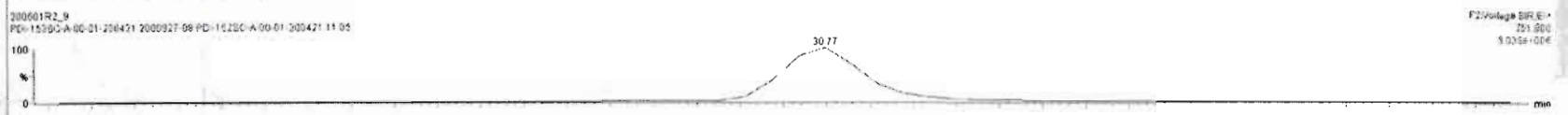
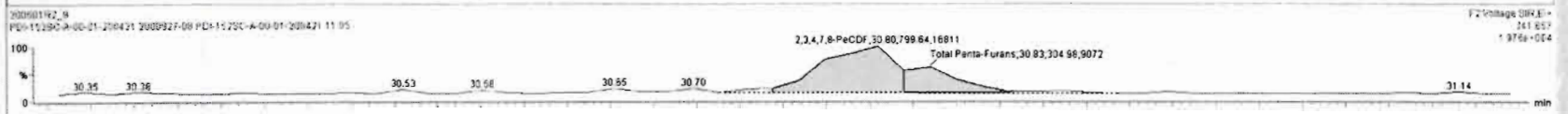
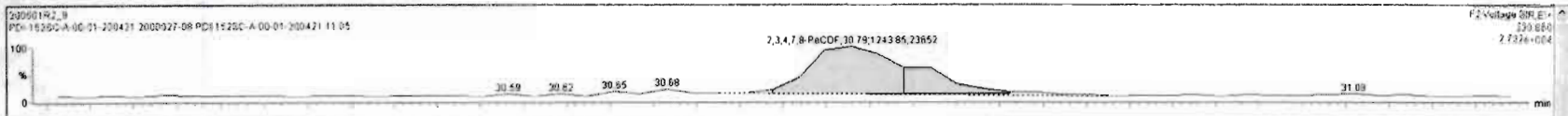




200501R2\_9 - 2000927-08 PDI-1529C-A-00-01-200421 11.05 - FDI-1529C-A-00-01-200421

Name	Resp	RA	n/y	RR	wTotal	RT	RR1	Conc	WRec	DL	EMPC
41 Total Hexa-Chlorins				0.91	10.020			11.8		0.233	12.9
42 Total Hepta-Chlorins				0.90	10.020			1.21		0.834	1.21
43 Total Tetra-Furans				0.79	10.020			2.57		0.104	3.74
44 1,3,7,8-PeCDF				0.91	10.020			0.911		0.890	0.911
45 Total Penta-Furans				0.91	10.020			4.18		0.140	4.18
46 Total Hexa-Furans				0.92	10.020			5.96		0.105	6.42
47 Total Hepta-Furans				0.87	10.020			11.8		0.182	11.0
48 PFK1											
49 PFK2											

Name	RT	wt Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.79	2.491e3	1.553e3	1.60	NO	1.0831	1.0831
2 Total Penta-Furans	29.30	1.076e3	8.159e2	1.32	NO	0.50670	0.50670
3 Total Penta-Furans	29.80	4.057e2	2.646e2	1.53	NO	0.17949	0.17949
4 1,2,3,7,8-PeCDF	29.80	2.754e3	1.783e3	1.55	NO	1.2149	1.2149
5 Total Penta-Furans	30.07	1.102e3	6.999e2	1.57	NO	0.40252	0.40252
6 2,3,4,7,8-PeCDF	30.79	1.244e3	7.996e2	1.56	NO	0.51652	0.51652
7 Total Penta-Furans	30.83	4.184e2	3.050e2	1.37	NO	0.19369	0.19369

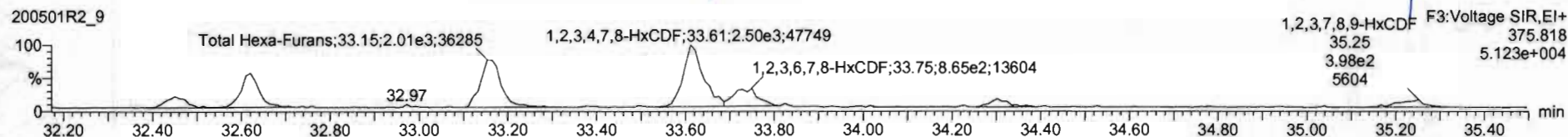
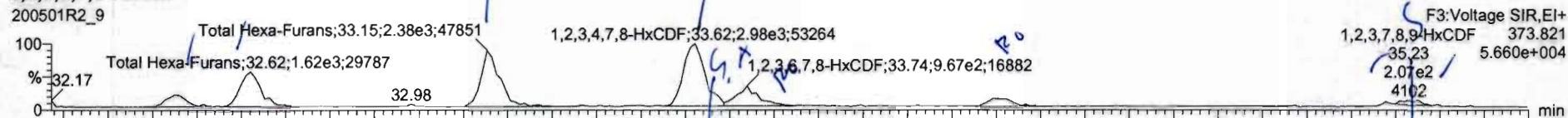


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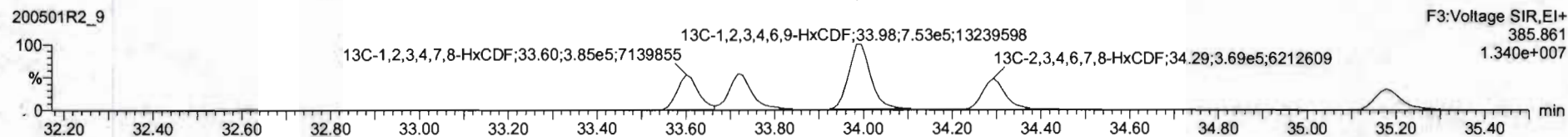
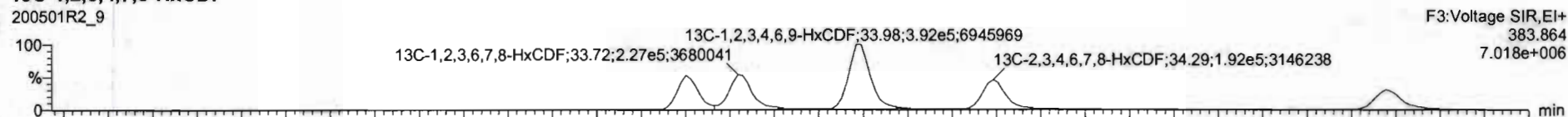
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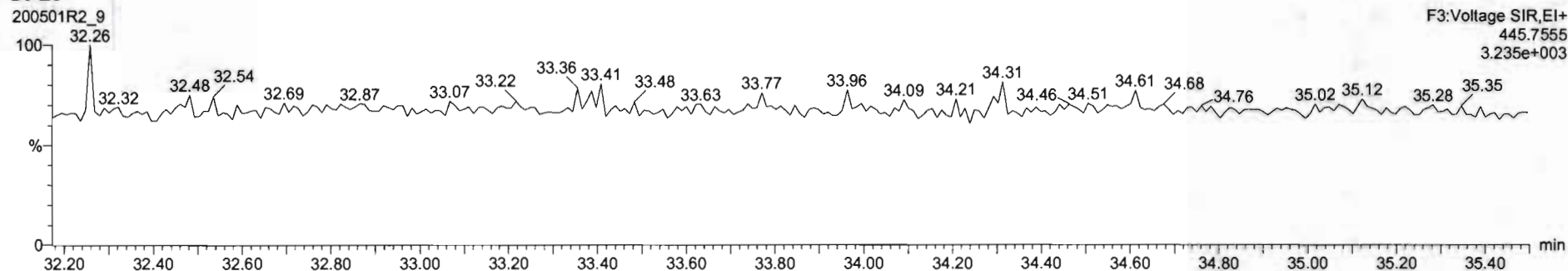
**1,2,3,4,7,8-HxCDF**



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

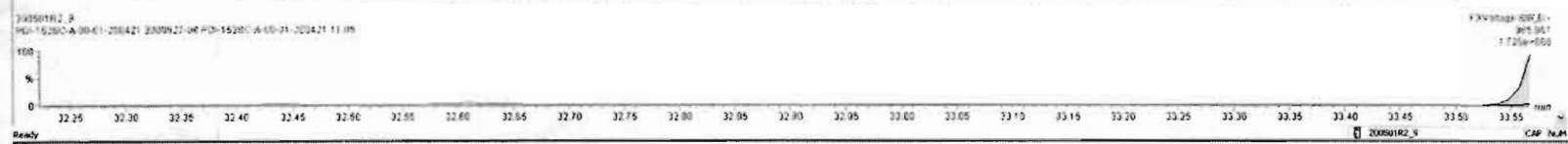
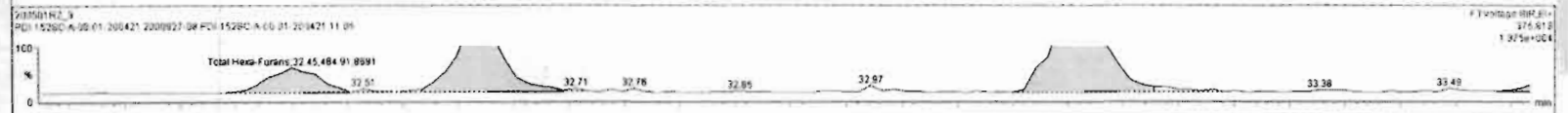


**DPE3**



Name	Resp	RA	ivy	RFI	MSVol	RT	RFIT	Conc.	%Fac	Cl	EMPC
41 Total Hexa-Furans				0.91	10.020			11.0	0.223	12.8	
42 Total Hexa-Furans				0.90	10.020			1.21	0.034	1.21	
43 Total Tetra-Furans				0.76	10.020			2.57	0.104	3.74	
44 1st Func. Penta-Furans				0.91	10.020			0.911	0.0292	0.911	
45 Total Penta-Furans				0.91	10.020			4.18	0.140	4.18	
46 Total Hexa-Furans				0.92	10.020			5.85	0.105	6.30	
47 Total Hexa-Furans				0.87	10.020			11.0	0.182	11.0	
48 PPK1											
49 PPK2											

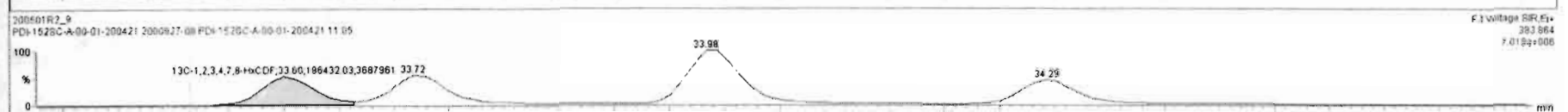
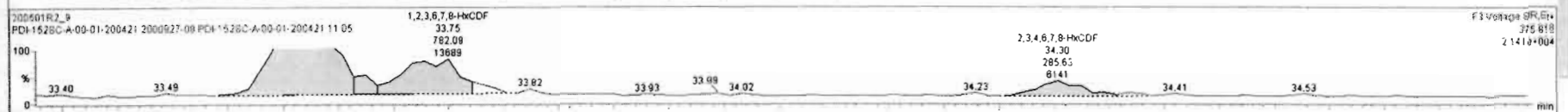
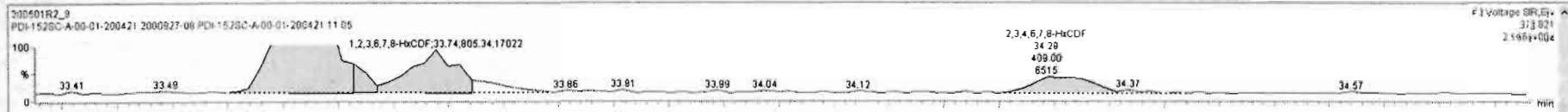
Name	RT	m1 Resp	m2 Resp	RA	ivy	EMPC	Conc.
1 Total Hexa-Furans	32.45	5.778e2	4.641e2	1.24	NO	0.40172	0.40172
2 Total Hexa-Furans	32.62	1.567e3	1.259e3	1.26	NO	1.0946	1.0946
3 Total Hexa-Furans	33.16	2.310e3	1.954e3	1.18	NO	1.6426	1.6426
4 1,2,3,4,7,8-HxCDF	33.62	2.842e3	2.385e3	1.18	NO	2.0427	2.0427
5 Total Hexa-Furans	33.88	1.941e2	1.324e2	1.24	NO	0.11422	0.11422
6 1,2,3,6,7,8-HxCDF	33.74	8.053e2	7.829e2	1.03	YES	0.49912	0.00000
7 2,3,4,6,7,8-HxCDF	34.28	4.930e2	2.856e2	1.43	YES	0.24713	0.00000
8 1,2,3,7,8,9-HxCDF	35.21	1.876e2	1.372e2	1.37	NO	0.17023	0.17023



200501R2\_9 - 2000927-08 PDI-152SC-A-00-01-200421 11.05 - PDI-152SC-A-00-01-200421

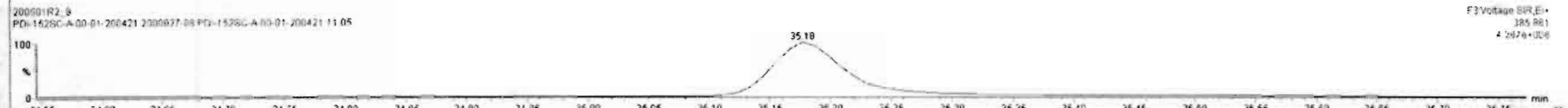
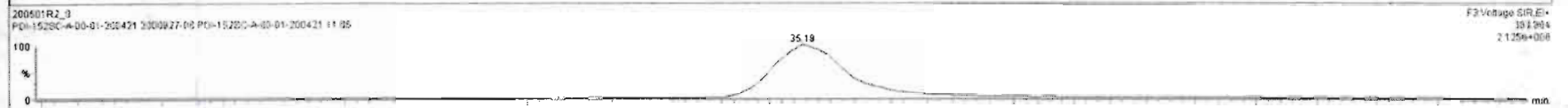
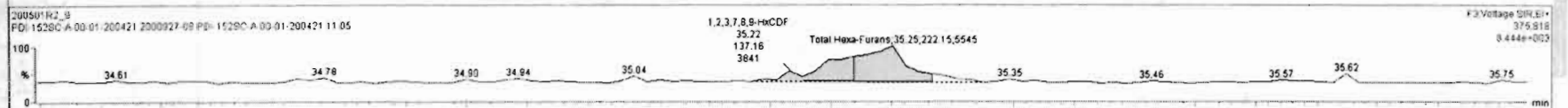
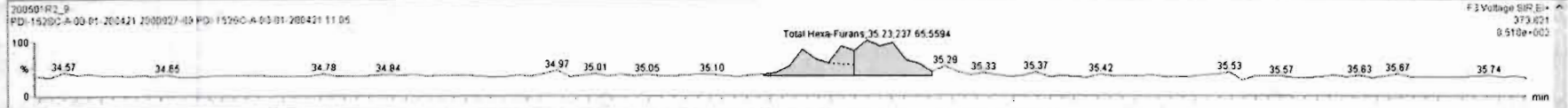
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.91	10.020			11.8		0.223	12.9
42 Total Hecto-Dioxins				0.90	10.020			121		0.634	121
43 Total Tetra-Furans				0.79	10.020			2.57		0.104	3.74
44 1st Func. Penta-Furans				0.91	10.020			0.911		0.0292	0.911
45 Total Penta-Furans				0.91	10.020			4.18		0.140	4.18
46 Total Hexa-Furans				0.92	10.020			5.65		0.105	6.39
47 Total Hecto-Furans				0.87	10.020			11.0		0.182	11.0
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.45	5.778e2	4.649e2	1.24	NO	0.40172	0.40172
2 Total Hexa-Furans	32.62	1.587e3	1.255e3	1.26	NO	1.0946	1.0946
3 Total Hexa-Furans	33.15	2.310e3	1.954e3	1.18	NO	1.6426	1.6426
4 1,2,3,4,7,8-HxCDF	33.62	2.842e3	2.383e3	1.19	NO	2.0427	2.0427
5 Total Hexa-Furans	33.66	1.641e2	1.324e2	1.24	NO	0.11422	0.11422
6 1,2,3,6,7,8-HxCDF	33.74	8.053e2	7.821e2	1.03	YES	0.48912	0.00000
7 2,3,4,6,7,8-HxCDF	34.29	4.090e2	2.856e2	1.43	YES	0.24713	0.00000
8 1,2,3,7,8-HxCDF	35.21	1.876e2	1.372e2	1.37	NO	0.17023	0.17023



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.91	10.020			11.6	0.223	12.9	
42	Total Hepta-Dioxins				0.90	10.020			1.21	0.634	1.21	
43	Total Tetra-Furans				0.79	10.020			2.57	0.104	3.74	
44	1st Func. Penta-Furans				0.91	10.020			0.911	0.0292	0.911	
45	Total Penta-Furans				0.91	10.020			4.18	0.140	4.18	
46	Total Hexa-Furans				0.92	10.020			5.84	0.105	6.38	
47	Total Hepta-Furans				0.87	10.020			11.0	0.182	11.0	
48	PFK1											
49	PFK2											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.45	5.778e2	4.649e2	1.24	NO	0.40172	0.40172
2	Total Hexa-Furans	32.62	1.587e3	1.255e3	1.26	NO	1.0946	1.0946
3	Total Hexa-Furans	33.15	2.310e3	1.954e3	1.18	NO	1.8426	1.8426
4	1,2,3,4,7,8-HxCDF	33.62	2.842e3	2.302e3	1.19	NO	2.0427	2.0427
5	Total Hexa-Furans	33.86	1.641e2	1.324e2	1.24	NO	0.11422	0.11422
6	1,2,3,5,7,8-HxCDF	33.74	8.053e2	7.821e2	1.03	YES	0.49912	0.02000
7	2,3,4,6,7,8-HxCDF	34.29	4.096e2	2.856e2	1.43	YES	0.24713	0.02000
8	1,2,3,7,8,9-HxCDF	35.21	1.876e2	1.372e2	1.37	NO	0.17023	0.17023



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Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_9, Date: 01-May-2020, Time: 21:32:50, ID: 2000927-08 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421

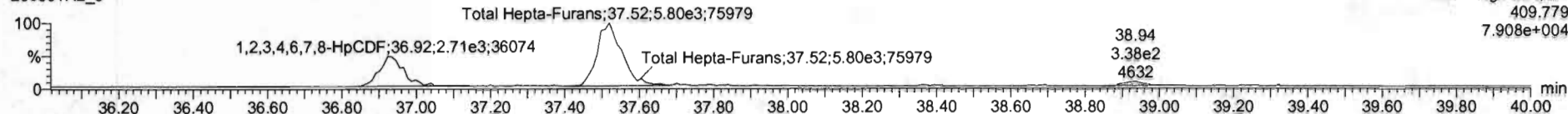
**1,2,3,4,6,7,8-HpCDF**

200501R2\_9



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7.560e+004

200501R2\_9



F4: Voltage SIR, EI+  
409.779  
7.908e+004

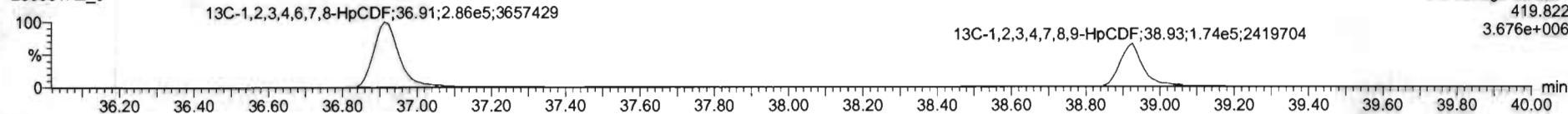
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200501R2\_9



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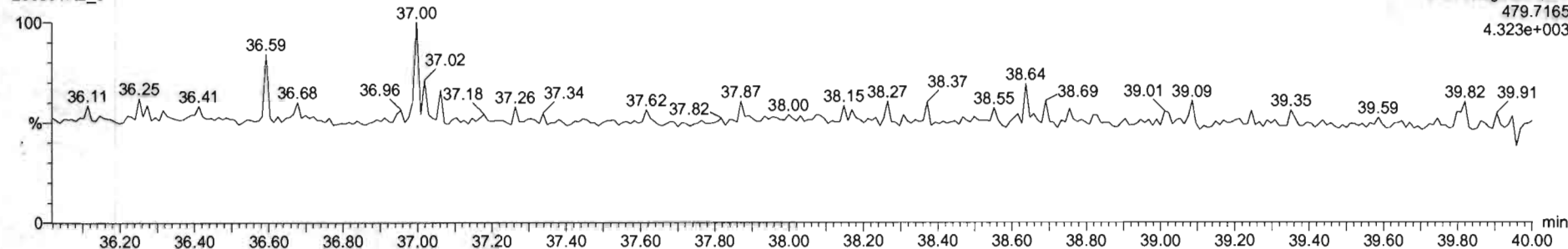
200501R2\_9



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**DPE4**

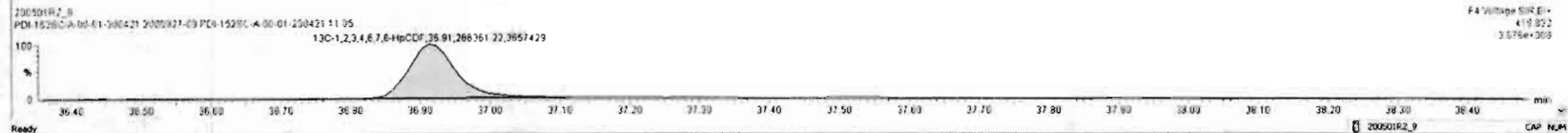
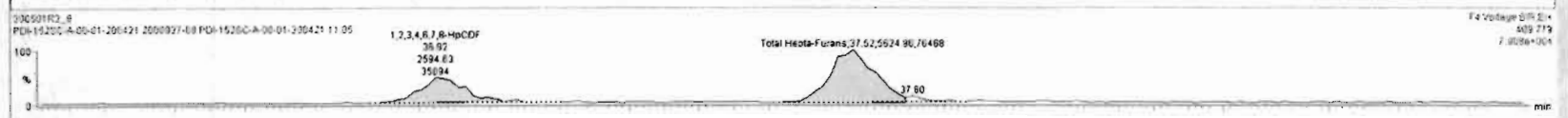
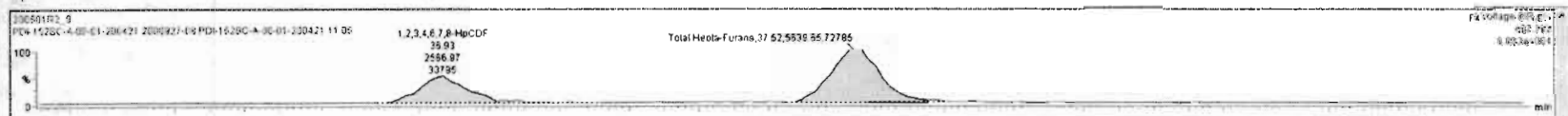
200501R2\_9



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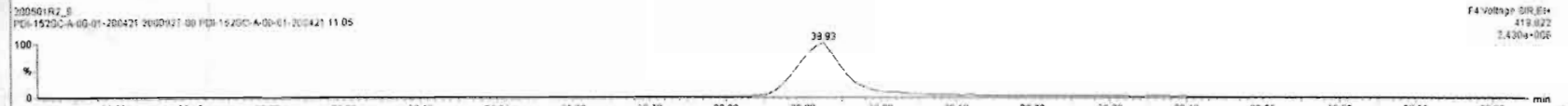
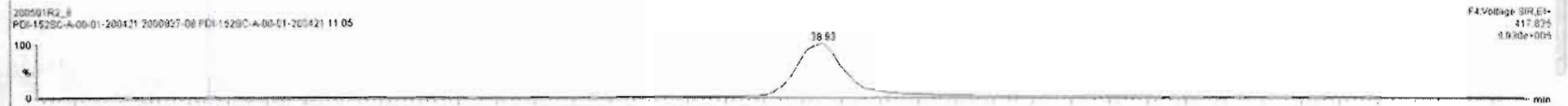
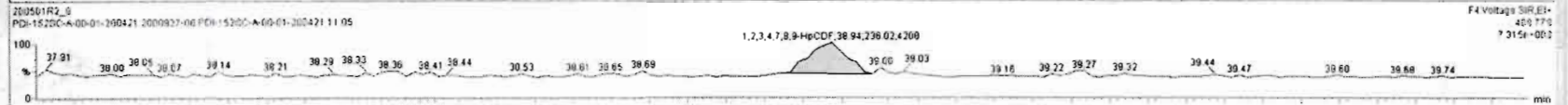
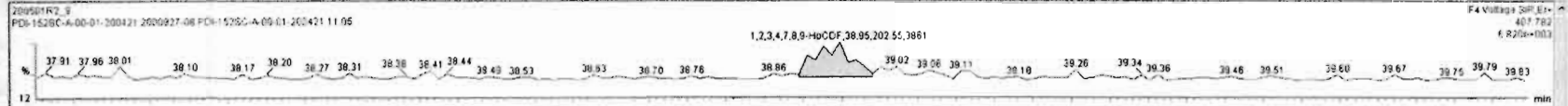
Name	Range	RA	rvy	PRF	wt/wt	RT	RRT	Conc	NRec	DL	EMFC
41	Total Hepta-Dioxins			0.91	10.020			11.6		0.223	12.9
42	Total Hepta-Dioxins			0.90	10.020			121		0.034	121
43	Total Tetra-Furans			0.79	10.020			2.57		0.104	3.74
44	1st Func. Penta-Furans			0.91	10.020			0.911		0.0292	0.911
45	Total Penta-Furans			0.91	10.020			4.18		0.140	4.18
46	Total Hepta-Furans			0.92	10.020			5.64		0.105	6.30
47	Total Hepta-Furans			0.87	10.020			10.0		0.182	11.1
48	PFK1										
49	PFK2										

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMFC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.93	2.967e3	2.595e3	0.99	NO	2.8991
2	Total Hepta-Furans	37.52	5.640e3	5.625e3	1.00	NO	7.8969
3	1,2,3,4,7,8-HpCDF	36.95	2.026e2	2.300e2	0.86	YES	0.31926



#	Name	Resp	RA	nW	RRF	wt/wt	RT	RET	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.91	10.020			11.8		0.223	12.9
42	Total Hepta-Dioxins				0.90	10.020			121		0.834	121
43	Total Tetra-Furans				0.79	10.020			2.57		0.104	3.74
44	Total Penta-Furans				0.91	10.020			0.911		0.0292	0.511
45	Total Hexa-Furans				0.91	10.020			4.18		0.140	4.18
46	Total Hepta-Furans				0.92	10.020			5.64		0.105	6.39
47	Total Hepta-Furans				0.87	10.020			10.8		0.162	11.1
48	PFK1											
49	PFK2											

#	Name	RT	m1 Resp	m2 Resp	RA	nW	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	38.93	2.567e3	2.595e3	0.99	NO	2.8991	2.8991
2	Total Hepta-Furans	37.52	5.640e3	5.525e3	1.00	NO	7.8985	7.8989
3	1,2,3,4,7,8,9-HpCDF	38.95	2.026e2	2.360e2	0.86	YES	0.31926	0.00000

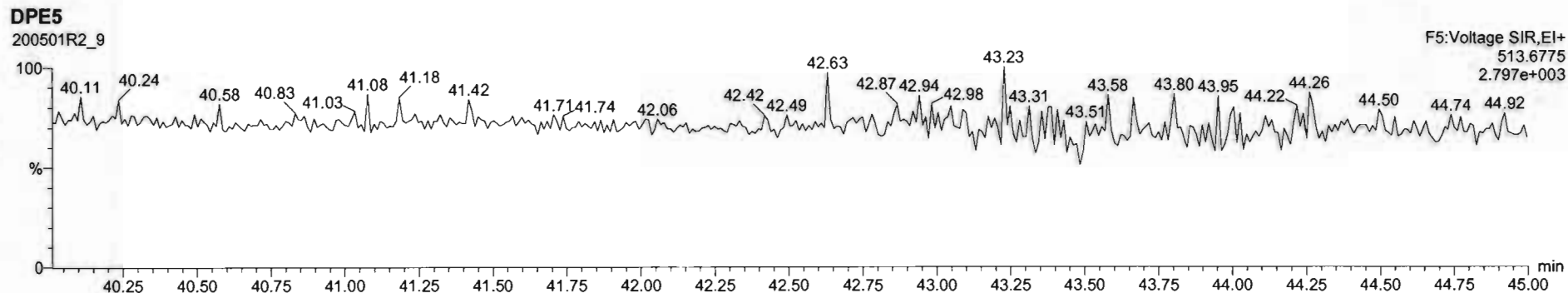
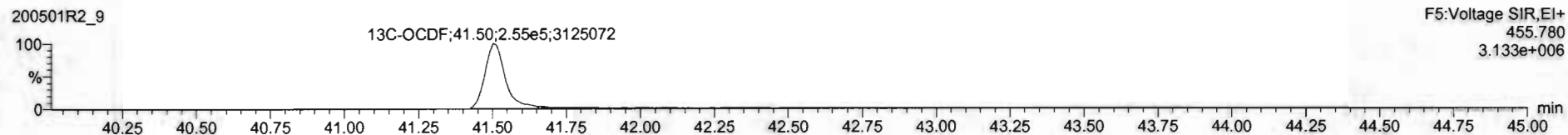
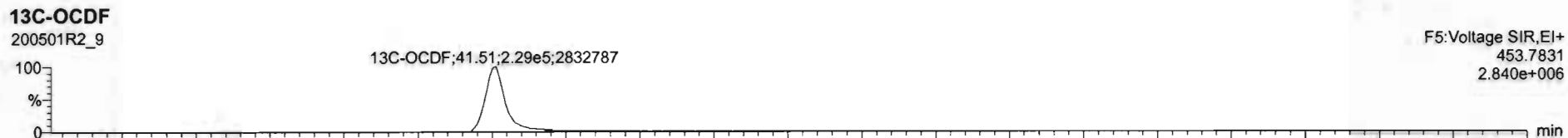
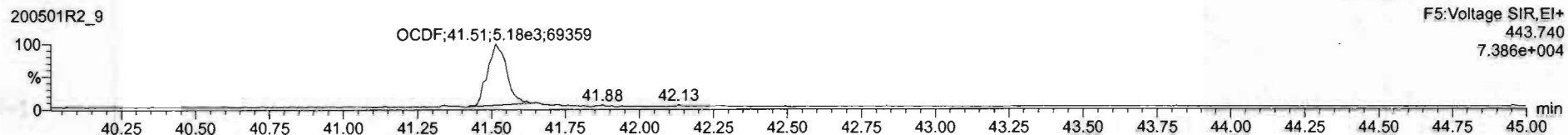
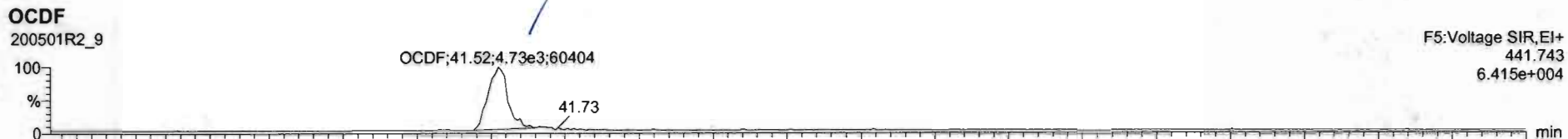




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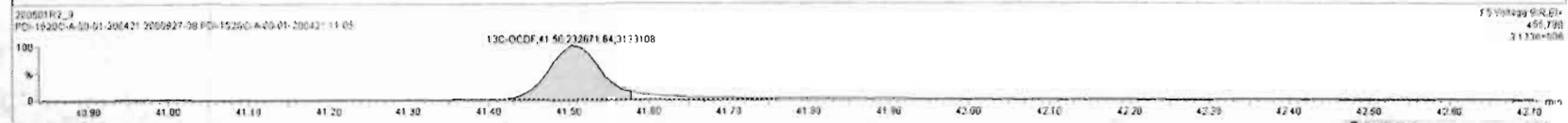
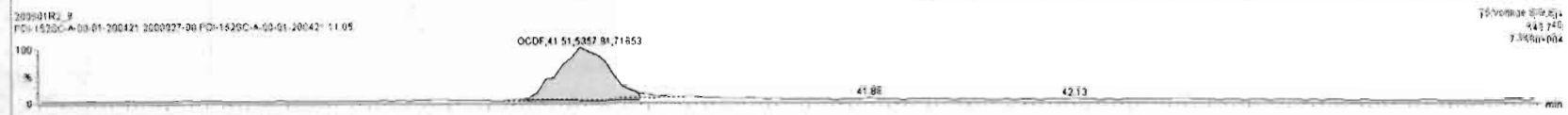
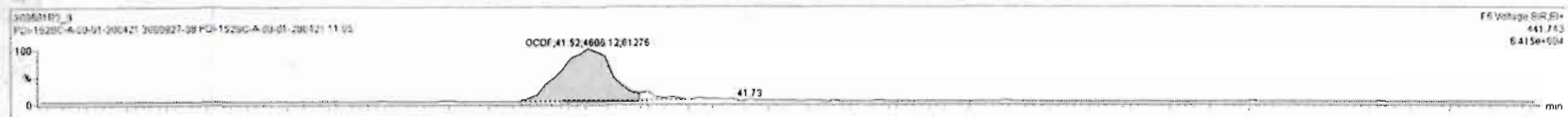
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200501R2\_9\_2000927-08.PDI-1525C-A-00-01-200421 11.05 - PDI-1525C-A-00-01-200421

#	Name	Resp	RA	INy	REF	wt/vol	RT	PR1	Conc	%Rec	DL	EMPC
16	1,2,3,4,7,8,9-HeCDF			NO	1.01	10.020					0.204	
17	OCDF	8.96E5	0.86	NO	0.80	10.020	41.82	1.000	11.3		0.267	11.3
18	13C-2,3,7,8-TCDD	7.11E5	0.78	NO	1.16	10.020	25.99	1.027	1.00	54.2	0.217	
19	13C-1,2,3,7,8-PeCDD	5.31E5	0.63	NO	0.85	10.020	31.09	1.229	1.11	55.4	0.263	
20	13C-1,2,3,4,7,8-HxCDD	3.92E5	1.28	NO	0.75	10.020	34.46	1.014	91.3	45.7	0.306	
21	13C-1,2,3,6,7,8-HxCDD	5.13E5	1.22	NO	0.96	10.020	34.57	1.017	92.8	46.5	0.238	
22	13C-1,2,3,7,8,9-HxCDD	4.43E5	1.19	NO	0.84	10.020	34.84	1.025	92.2	46.2	0.274	
23	13C-1,2,3,4,6,7,8-HxCDD	3.22E5	1.08	NO	0.64	10.020	38.34	1.126	87.4	43.8	0.294	
24	13C-OCDF	3.95E5	0.90	NO	0.58	10.020	41.33	1.218	117	29.4	0.335	

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

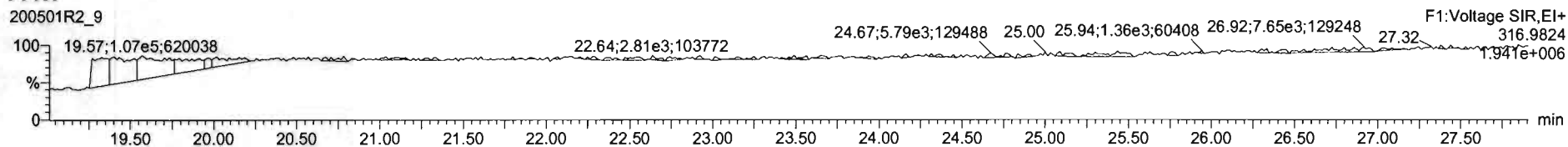


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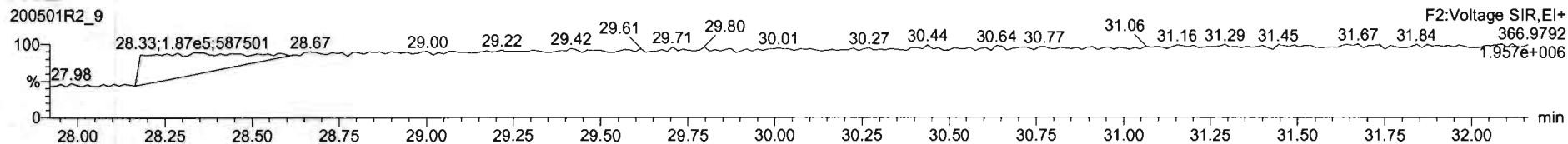
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Name: 200501R2\_9, Date: 01-May-2020, Time: 21:32:50, ID: 2000927-08 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421

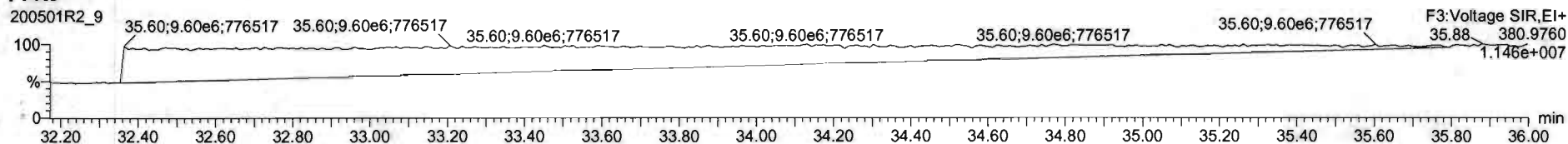
PFK1



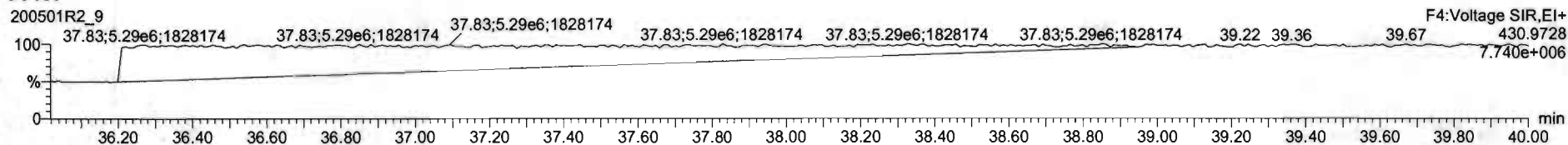
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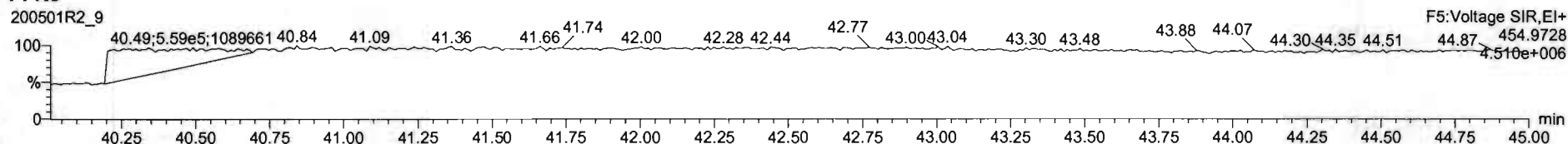
PFK3



PFK4



PFK5



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Printed: Saturday, May 02, 2020 11:31:21 Pacific Daylight Time

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	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	9.34e2	0.28	YES	0.947	10.033	25.99	1.001	0.25754		0.0586	0.131
2	1,2,3,7,8-PeCDD	2.18e2	0.36	YES	0.942	10.033	31.09	1.000	0.082501		0.0400	0.0578
3	1,2,3,4,7,8-HxCDD			NO	1.06	10.033					0.106	
4	1,2,3,6,7,8-HxCDD	3.17e2	0.95	YES	0.915	10.033	34.57	1.000	0.13579		0.107	0.119
5	1,2,3,7,8,9-HxCDD			NO	0.915	10.033					0.137	
6	1,2,3,4,6,7,8-HpCDD	4.05e3	1.05	NO	0.898	10.033	38.35	1.001	3.2553		0.288	3.26
7	OCDD	4.55e4	0.89	NO	0.933	10.033	41.33	1.000	61.827		0.525	61.8
8	2,3,7,8-TCDF			NO	0.787	10.033					0.0980	
9	1,2,3,7,8-PeCDF	1.33e2	1.20	YES	0.910	10.033	29.81	1.002	0.038054		0.108	0.0297
10	2,3,4,7,8-PeCDF	7.32e2	2.37	YES	0.966	10.033	30.80	1.001	0.18080		0.102	0.137
11	1,2,3,4,7,8-HxCDF	3.36e2	0.91	YES	0.878	10.033	33.62	1.001	0.12882		0.0787	0.111
12	1,2,3,6,7,8-HxCDF			NO	0.874	10.033					0.0782	
13	2,3,4,6,7,8-HxCDF			NO	0.922	10.033					0.0943	
14	1,2,3,7,8,9-HxCDF			NO	0.864	10.033					0.144	
15	1,2,3,4,6,7,8-HpCDF	2.02e3	1.14	NO	0.871	10.033	36.93	1.001	1.2109		0.167	1.21
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.033					0.220	
17	OCDF	7.01e2	1.15	YES	0.802	10.033	41.51	1.001	0.81020		0.268	0.712
18	13C-2,3,7,8-TCDD	7.63e5	0.79	NO	1.16	10.033	25.98	1.027	121.60	61.0	0.210	
19	13C-1,2,3,7,8-PeCDD	5.53e5	0.63	NO	0.847	10.033	31.08	1.228	120.62	60.5	0.231	
20	13C-1,2,3,4,7,8-HxCDD	3.94e5	1.30	NO	0.750	10.033	34.45	1.014	89.650	45.0	0.320	
21	13C-1,2,3,6,7,8-HxCDD	5.10e5	1.26	NO	0.963	10.033	34.56	1.017	90.390	45.3	0.249	
22	13C-1,2,3,7,8,9-HxCDD	4.20e5	1.32	NO	0.838	10.033	34.84	1.025	85.698	43.0	0.287	
23	13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.641	10.033	38.33	1.128	73.463	36.9	0.329	
24	13C-OCDD	3.14e5	0.90	NO	0.586	10.033	41.32	1.216	91.529	23.0	0.383	
25	13C-2,3,7,8-TCDF	1.04e6	0.77	NO	1.03	10.033	25.03	0.989	119.72	60.1	0.327	
26	13C-1,2,3,7,8-PeCDF	8.83e5	1.57	NO	0.845	10.033	29.77	1.177	123.88	62.1	0.351	
27	13C-2,3,4,7,8-PeCDF	8.35e5	1.61	NO	0.814	10.033	30.76	1.216	121.66	61.0	0.365	
28	13C-1,2,3,4,7,8-HxCDF	5.92e5	0.51	NO	1.00	10.033	33.60	0.989	100.61	50.5	0.600	
29	13C-1,2,3,6,7,8-HxCDF	6.63e5	0.51	NO	1.14	10.033	33.72	0.992	99.611	50.0	0.530	
30	13C-2,3,4,6,7,8-HxCDF	5.34e5	0.51	NO	1.02	10.033	34.28	1.009	89.174	44.7	0.590	

Dataset: U:\WG12.PRO\Results\200501R2\200501R2-10.qld

Last Altered: Saturday, May 02, 2020 11:30:50 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:31:21 Pacific Daylight Time

Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421, Task: ST200501R2\_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	4.52e5	0.53	NO	0.845	10.033	35.18	1.035	91.356	45.8	0.713	
32	13C-1,2,3,4,6,7,8-HpCDF	3.82e5	0.44	NO	0.771	10.033	36.91	1.086	84.656	42.5	0.354	
33	13C-1,2,3,4,7,8,9-HpCDF	2.35e5	0.42	NO	0.482	10.033	38.92	1.145	83.234	41.8	0.566	
34	13C-OCDF	4.30e5	0.88	NO	0.669	10.033	41.49	1.221	109.94	27.6	0.278	
35	37Cl-2,3,7,8-TCDD	3.69e5			1.10	10.033	26.00	1.028	62.064	77.8	0.0605	
36	13C-1,2,3,4-TCDD	1.08e6	0.80	NO	1.00	10.033	25.30	1.000	199.34	100	0.244	
37	13C-1,2,3,4-TCDF	1.68e6	0.79	NO	1.00	10.033	23.52	1.000	199.34	100	0.338	
38	13C-1,2,3,4,6,9-HxCDF	1.17e6	0.51	NO	1.00	10.033	33.98	1.000	199.34	100	0.603	
39	Total Tetra-Dioxins				0.947	10.033			0.14071		0.101	0.272
40	Total Penta-Dioxins				0.942	10.033			0.44849		0.0400	0.575
41	Total Hexa-Dioxins				0.915	10.033			0.80457		0.121	1.56
42	Total Hepta-Dioxins				0.898	10.033			9.3153		0.288	9.32
43	Total Tetra-Furans				0.787	10.033			1.4110		0.0980	2.20
44	1st Func. Penta-Furans				0.910	10.033			0.00000		0.00947	1.24
45	Total Penta-Furans				0.910	10.033			1.0061		0.108	1.32
46	Total Hexa-Furans				0.922	10.033			1.7436		0.0915	1.85
47	Total Hepta-Furans				0.871	10.033			2.4528		0.201	2.45

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-10.qld

Last Altered: Saturday, May 02, 2020 11:30:50 Pacific Daylight Time

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

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

Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421,  
 Task: ST200501R2\_2

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.71	3.806e3	3.992e3	2.390e2	2.714e2	0.88	NO	5.104e2	0.14071	0.14071	0.101
2	2,3,7,8-TCDD	25.99	2.755e3	1.013e4	2.066e2	7.275e2	0.28	YES	9.341e2	0.00000	0.13095	0.0586

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.84	2.403e3	4.350e3	1.967e2	3.556e2	0.55	NO	5.523e2	0.21119	0.21119	0.0400
2	Total Penta-Dioxins	29.31	3.221e3	2.266e3	1.234e2	1.099e2	1.12	YES	0.000e0	0.00000	0.068515	0.0400
3	Total Penta-Dioxins	29.83	2.047e3	4.254e3	1.124e2	1.685e2	0.67	NO	2.809e2	0.10739	0.10739	0.0400
4	Total Penta-Dioxins	30.00	2.380e3	2.891e3	9.831e1	1.603e2	0.61	NO	2.587e2	0.098901	0.098901	0.0400
5	1,2,3,7,8-PeCDD	31.09	1.527e3	3.487e3	5.838e1	1.600e2	0.36	YES	2.184e2	0.00000	0.057758	0.0400
6	Total Penta-Dioxins	31.51	1.940e3	2.303e3	3.297e1	4.812e1	0.69	NO	8.109e1	0.031007	0.031007	0.0400

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.573e4	1.595e4	8.527e2	7.755e2	1.10	NO	1.628e3	0.80457	0.80457	0.121
2	Total Hexa-Dioxins	33.79	1.416e4	7.918e3	8.650e2	5.778e2	1.50	YES	0.000e0	0.00000	0.63953	0.121
3	1,2,3,6,7,8-HxCDD	34.57	3.816e3	3.629e3	1.546e2	1.629e2	0.95	YES	3.175e2	0.00000	0.11943	0.107

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	4.873e4	4.860e4	3.820e3	3.711e3	1.03	NO	7.530e3	6.0600	6.0600	0.288
2	1,2,3,4,6,7,8-HpCDD	38.35	2.654e4	2.523e4	2.068e3	1.978e3	1.05	NO	4.045e3	3.2553	3.2553	0.288

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-10.qld

Last Altered: Saturday, May 02, 2020 11:30:50 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:31:21 Pacific Daylight Time

Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421, Task: ST200501R2\_2

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.27	4.150e3	5.887e3	3.320e2	4.218e2	0.79	NO	7.538e2	0.18285	0.18285	0.0980
2	Total Tetra-Furans	20.87	1.203e4	1.508e4	9.017e2	1.254e3	0.72	NO	2.156e3	0.52292	0.52292	0.0980
3	Total Tetra-Furans	21.77	5.015e3	6.980e3	5.197e2	5.652e2	0.92	YES	0.000e0	0.00000	0.24266	0.0980
4	Total Tetra-Furans	22.28	5.900e3	7.665e3	4.711e2	7.494e2	0.63	YES	0.000e0	0.00000	0.26265	0.0980
5	Total Tetra-Furans	23.42	6.778e3	7.811e3	5.490e2	6.946e2	0.79	NO	1.244e3	0.30166	0.30166	0.0980
6	Total Tetra-Furans	24.10	3.328e3	4.799e3	2.316e2	2.449e2	0.95	YES	0.000e0	0.00000	0.10514	0.0980
7	Total Tetra-Furans	24.16	4.276e3	6.163e3	4.068e2	4.924e2	0.83	NO	8.991e2	0.21809	0.21809	0.0980
8	Total Tetra-Furans	26.69	6.745e3	7.345e3	3.484e2	4.163e2	0.84	NO	7.647e2	0.18549	0.18549	0.0980
9	Total Tetra-Furans	26.87	4.911e3	1.057e4	3.113e2	5.835e2	0.53	YES	0.000e0	0.00000	0.17359	0.0980

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.14	4.830e4	3.234e4	3.453e3	1.901e3	1.82	YES	0.000e0	0.00000	1.2365	0.0234

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.79	1.560e4	1.725e4	1.141e3	6.605e2	1.73	NO	1.801e3	0.45934	0.45934	0.108
2	Total Penta-Furans	29.39	1.221e4	1.101e4	8.955e2	5.305e2	1.69	NO	1.426e3	0.36366	0.36366	0.108
3	1,2,3,7,8-PeCDF	29.81	3.388e3	2.737e3	7.272e1	6.048e1	1.20	YES	1.332e2	0.00000	0.029687	0.108
4	Total Penta-Furans	30.07	6.427e3	3.626e3	2.856e2	1.727e2	1.65	NO	4.583e2	0.11687	0.11687	0.108
5	Total Penta-Furans	30.15	1.231e4	4.721e3	5.058e2	2.265e2	2.23	YES	0.000e0	0.00000	0.14728	0.108
6	2,3,4,7,8-PeCDF	30.80	1.438e4	3.324e3	5.144e2	2.174e2	2.37	YES	7.318e2	0.00000	0.13696	0.102
7	Total Penta-Furans	30.82	6.799e3	3.565e3	1.653e2	9.432e1	1.75	NO	2.596e2	0.066207	0.066207	0.108

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-10.qld

Last Altered: Saturday, May 02, 2020 11:30:50 Pacific Daylight Time  
 Printed: Saturday, May 02, 2020 11:31:21 Pacific Daylight Time

Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421,  
 Task: ST200501R2\_2

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	7.791e3	5.829e3	3.675e2	3.248e2	1.13	NO	6.923e2	0.26733	0.26733	0.0915
2	Total Hexa-Furans	32.61	1.945e4	1.775e4	1.004e3	8.568e2	1.17	NO	1.861e3	0.71857	0.71857	0.0915
3	Total Hexa-Furans	33.16	1.878e4	1.729e4	1.066e3	8.965e2	1.19	NO	1.962e3	0.75768	0.75768	0.0915
4	1,2,3,4,7,8-HxCDF	33.62	3.613e3	4.783e3	1.600e2	1.759e2	0.91	YES	3.359e2	0.00000	0.11084	0.0787

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.93	1.516e4	1.204e4	1.079e3	9.437e2	1.14	NO	2.023e3	1.2109	1.2109	0.167
2	Total Hepta-Furans	37.51	1.089e4	1.158e4	8.088e2	8.662e2	0.93	NO	1.675e3	1.2419	1.2419	0.201



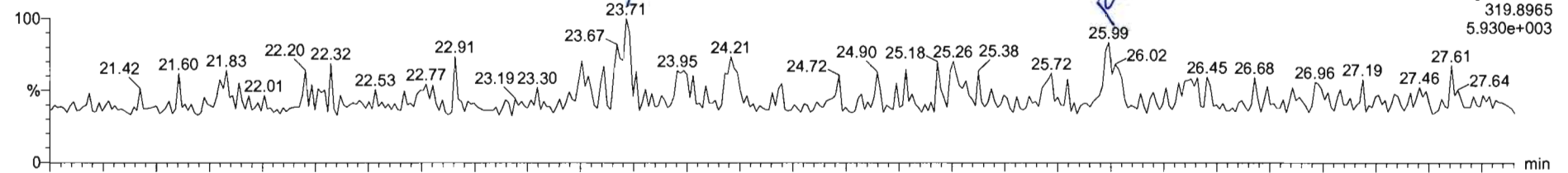
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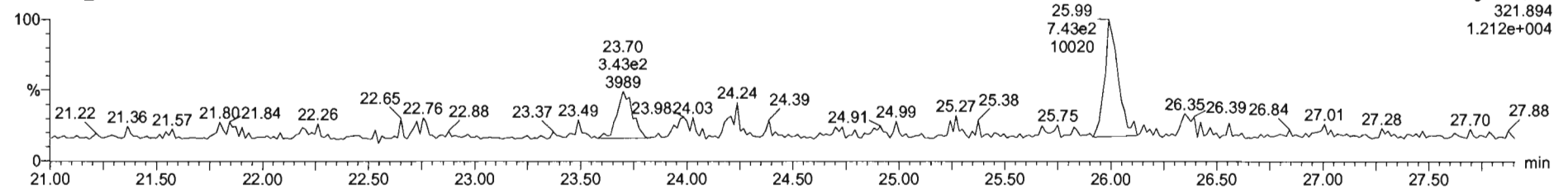
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**2,3,7,8-TCDD**

200501R2\_10

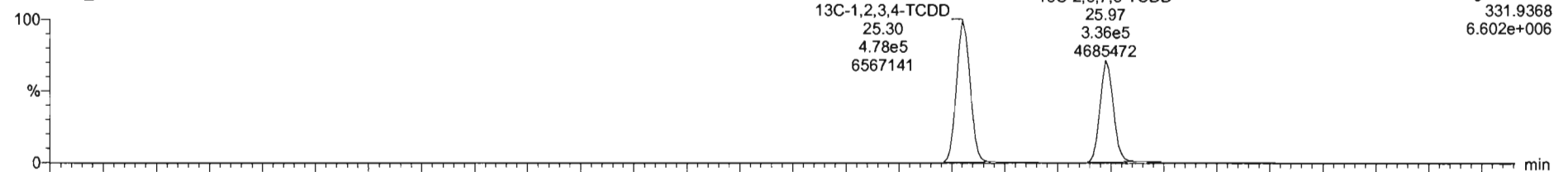


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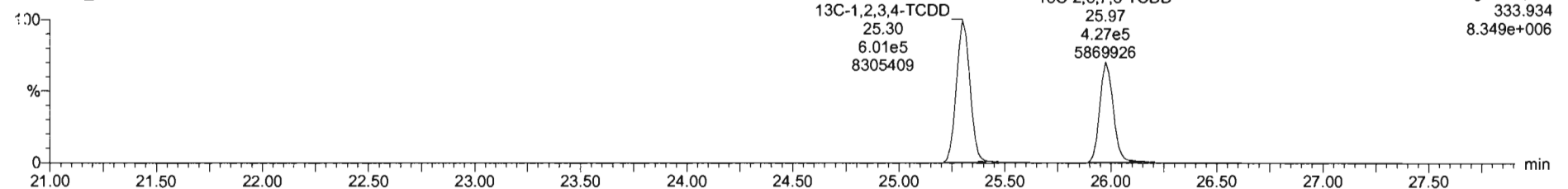


**13C-2,3,7,8-TCDD**

200501R2\_10

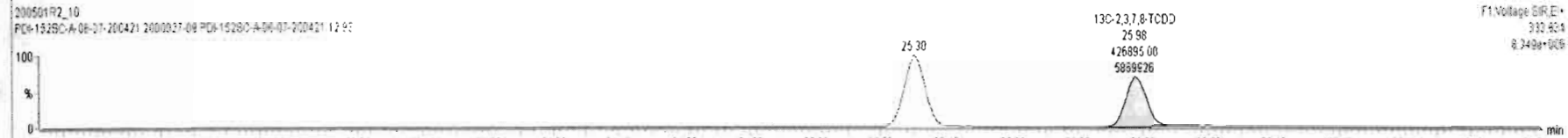
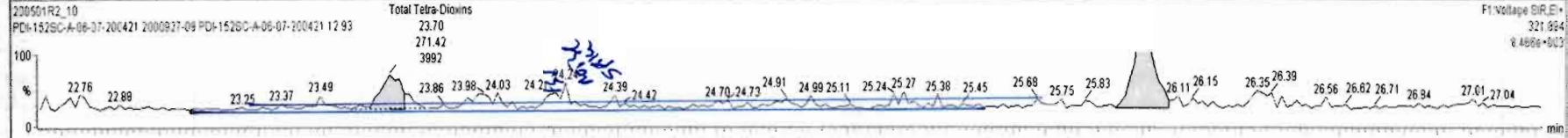
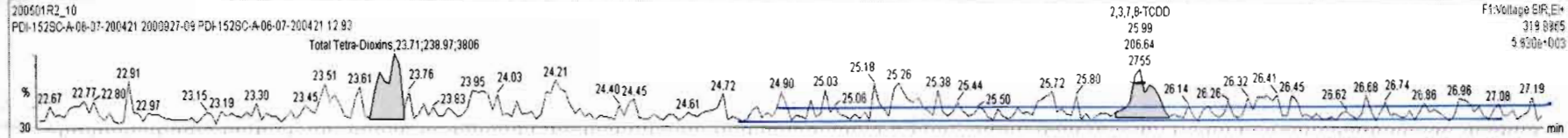


200501R2\_10



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
24 13C-OCDD	3.14e5	0.90	NO	0.59	10.033	41.32	1.216	91.5	23.0	0.383	
25 13C-2,3,7,8-TCDF	1.04e6	0.77	NO	1.03	10.033	25.03	0.989	120	80.1	0.327	
26 13C-1,2,3,7,8-PeCDF	8.83e5	1.57	NO	0.85	10.033	29.77	1.177	124	62.1	0.251	
27 13C-2,3,4,7,8-PeCDF	8.35e5	1.61	NO	0.81	10.033	30.76	1.216	122	61.0	0.365	
28 13C-1,2,3,4,7,8-HxCDF	5.92e5	0.51	NO	1.00	10.033	33.60	0.989	101	50.5	0.600	
29 13C-1,2,3,6,7,8-HxCDF	6.63e5	0.51	NO	1.14	10.033	33.72	0.992	99.6	50.0	0.530	
30 13C-2,3,4,6,7,8-HxCDF	5.34e5	0.51	NO	1.02	10.033	34.28	1.008	89.2	44.7	0.590	
31 13C-1,2,3,7,8,9-HxCDF	4.52e5	0.53	NO	0.84	10.033	35.18	1.035	91.4	45.8	0.713	
32 13C-1,2,3,4,6,7,8-HpCDF	3.95e5	0.45	NO	0.77	10.033	36.91	1.086	87.4	43.9	0.354	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	23.71	2.390e2	2.714e2	0.88	NO	0.14071	0.14071
2 2,3,7,8-TCDD	25.98	2.066e2	7.275e2	0.28	YES	0.13095	0.00000



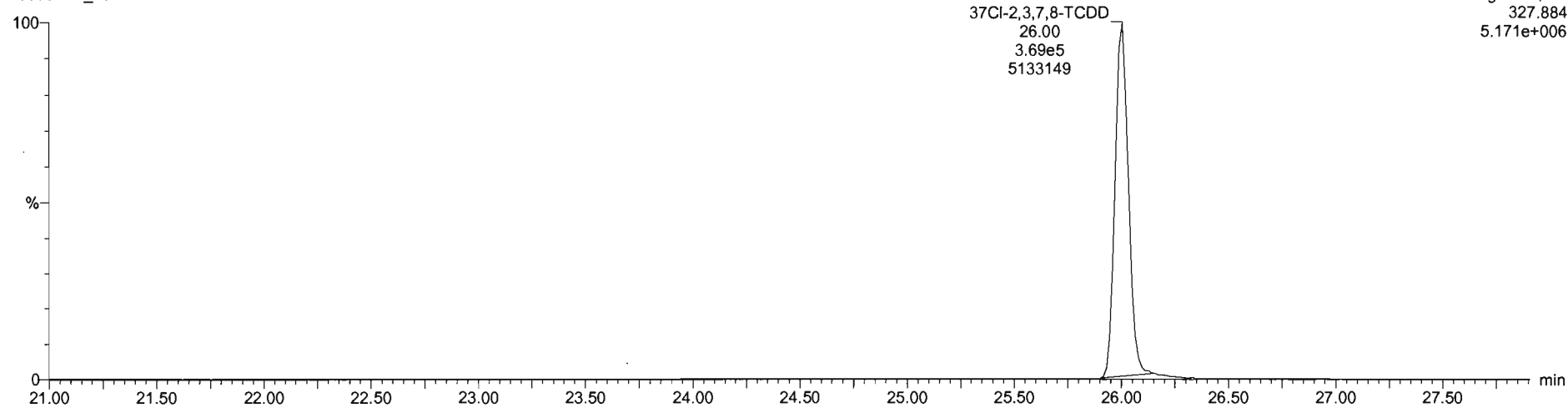
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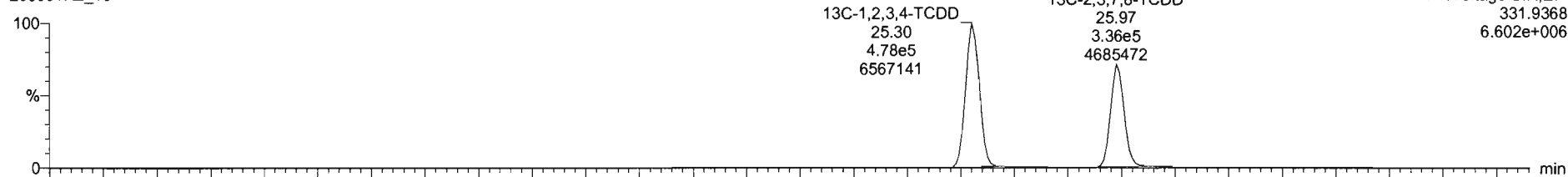
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200501R2\_10

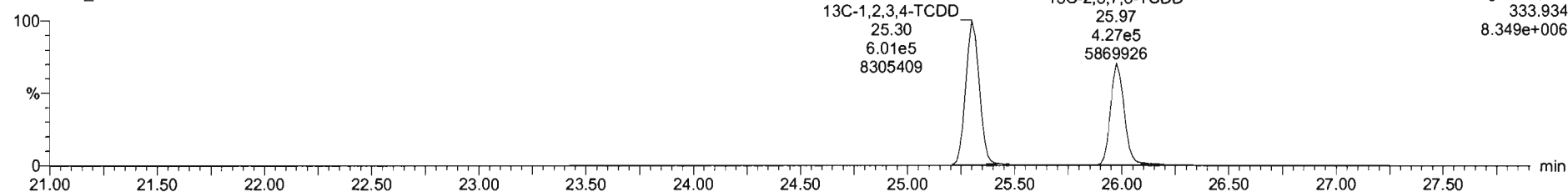


**13C-1,2,3,4-TCDD**

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200501R2\_10



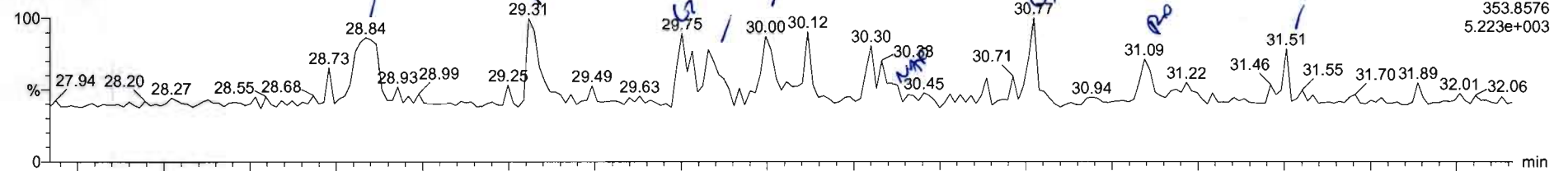
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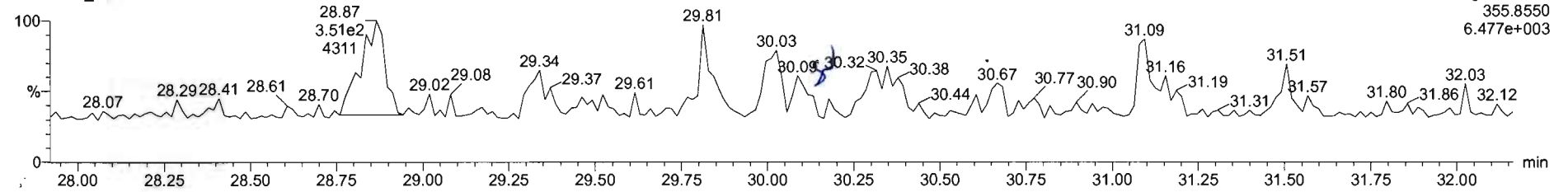
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1,2,3,7,8-PeCDD

200501R2\_10

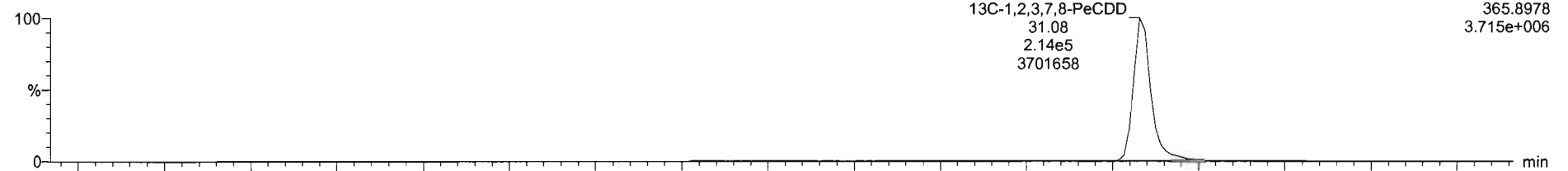


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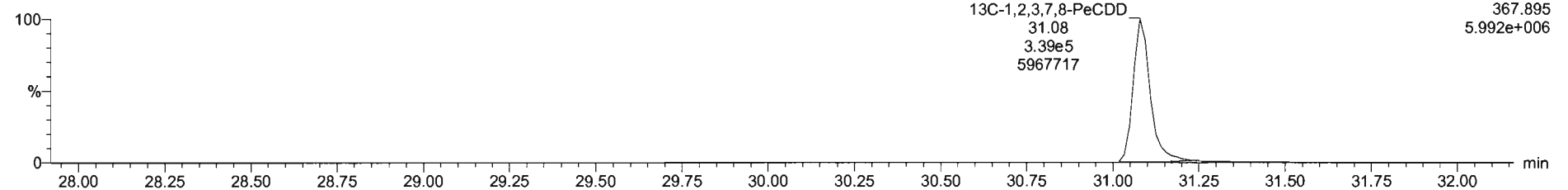


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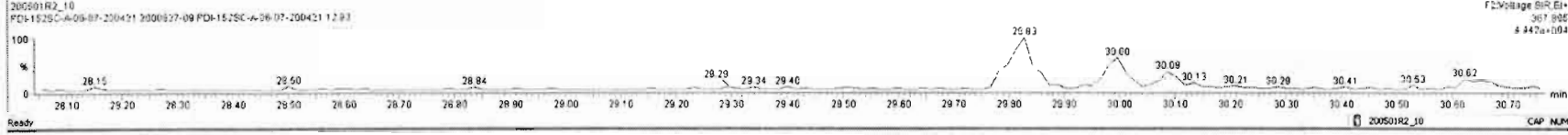
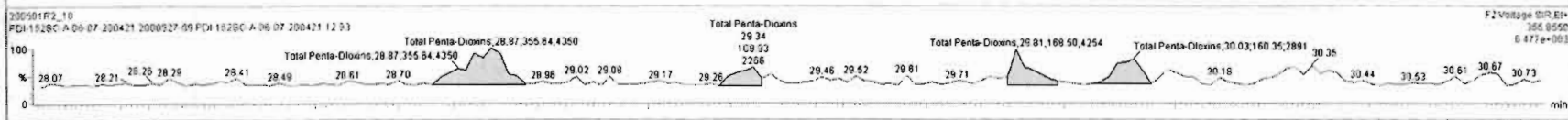
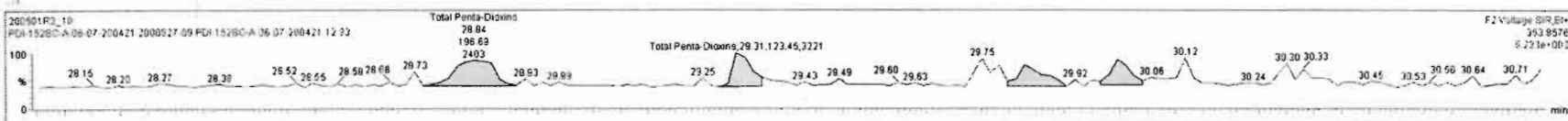
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200501R2\_10 - 2000927-09 PDI-152SC-A-06-07-200421-12.93 - PDI-152SC-A-06-07-200421

Name	Resp	RA	FW	RRF	WtMol	RT	RRT	Conc	%Rec	DL	EMPC
25 13C-2,3,7,8-TCDF	1.04e6	0.77	NO	1.03	10.033	25.03	0.389	120	60.1	0.327	
26 13C-1,2,3,7,8-PeCDF	8.83e5	1.57	NO	0.85	10.033	29.77	1.177	124	62.1	0.351	
27 13C-2,3,4,7,8-PeCDF	8.35e5	1.81	NO	0.81	10.033	30.78	1.216	122	61.0	0.365	
28 13C-1,2,3,4,7,8-HxCDF	5.92e5	0.51	NO	1.00	10.033	33.60	0.988	101	50.5	0.600	
29 13C-1,2,3,6,7,8-HxCDF	6.63e5	0.51	NO	1.14	10.033	33.72	0.992	99.6	50.0	0.530	
30 13C-2,3,4,6,7,8-HxCDF	5.34e5	0.51	NO	1.02	10.033	34.29	1.003	99.2	44.7	0.590	
31 13C-1,2,3,7,8-HxCDF	4.52e5	0.53	NO	0.84	10.033	35.19	1.035	99.4	45.8	0.713	
32 13C-1,2,3,4,6,7,8-HpCDF	3.95e5	0.46	NO	0.77	10.033	36.91	1.086	87.4	43.9	0.354	
33 13C-1,2,3,4,7,8,9-HpCDF	2.35e5	0.42	NO	0.48	10.033	38.92	1.145	83.2	41.8	0.566	

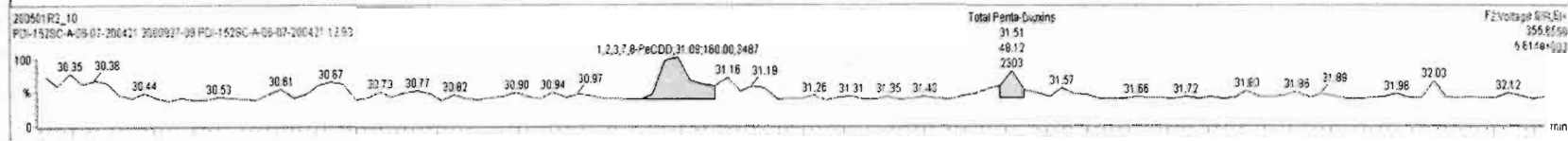
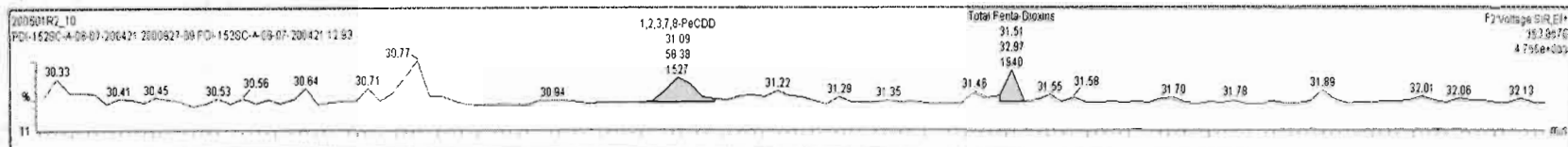
Name	RT	m1 Resp	m2 Resp	RA	FW	EMPC	Conc
1 Total Penta-Dioxins	28.84	1.967e2	3.555e2	0.55	NO	0.21119	0.21119
2 Total Penta-Dioxins	29.31	1.234e2	1.095e2	1.12	YES	0.068515	0.00000
3 Total Penta-Dioxins	29.83	1.124e2	1.885e2	0.67	NO	0.10739	0.10739
4 Total Penta-Dioxins	30.00	9.831e1	1.803e2	0.61	NO	0.098901	0.098901
5 1,2,3,7,8-PeCDD	31.09	5.838e1	1.600e2	0.36	YES	0.057758	0.00000



200501R2\_10 - 2000927-09 PDI-152SC-A-06-07-200421 12.93 - PDI-152SC-A-06-07-200421

Name	Resp	RA	nly	RF	wt/wt	RT	RRT	Conc	%Rec	DL	EMFC
25 13C-2,3,7,8-TCDF	1.04e6	0.77	NO	1.03	10.033	25.03	0.989	120	60.1	0.327	
26 13C-1,2,3,7,8-PeCDF	8.83e5	1.57	NO	0.85	10.033	29.77	1.177	124	62.1	0.351	
27 13C-2,3,4,7,8-PeCDF	8.35e5	1.61	NO	0.81	10.033	30.76	1.216	122	61.0	0.365	
28 13C-1,2,3,4,7,8-HxCDF	5.92e5	0.51	NO	1.00	10.033	33.60	0.989	101	50.5	0.600	
29 13C-1,2,3,6,7,8-HxCDF	6.83e5	0.51	NO	1.14	10.033	33.72	0.992	99.6	50.0	0.530	
30 13C-2,3,4,6,7,8-HxCDF	5.34e5	0.51	NO	1.02	10.033	34.28	1.069	89.2	44.7	0.580	
31 13C-1,2,3,7,8,9-HxCDF	4.52e5	0.53	NO	0.84	10.033	35.18	1.035	91.4	45.9	0.713	
32 13C-1,2,3,4,6,7,8-HxCDF	3.95e5	0.45	NO	0.77	10.033	36.51	1.086	87.4	43.9	0.354	
33 13C-1,2,3,4,7,8,9-HxCDF	2.35e5	0.42	NO	0.48	10.033	38.82	1.145	63.2	41.8	0.566	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMFC	Conc
1 Total Penta-Dioxins	28.94	1.967e2	3.556e2	0.55	NO	0.21119	0.21119
2 Total Penta-Dioxins	29.31	1.234e2	1.099e2	1.12	YES	0.068515	0.00000
3 Total Penta-Dioxins	29.83	1.124e2	1.886e2	0.67	NO	0.10739	0.10739
4 Total Penta-Dioxins	30.00	9.831e1	1.603e2	0.61	NO	0.098901	0.098901
5 1,2,3,7,8-PeCDD	31.09	5.839e1	1.600e2	0.36	YES	0.057758	0.00000
6 Total Penta-Dioxins	31.51	3.297e1	4.812e1	0.68	NO	0.031007	0.031007



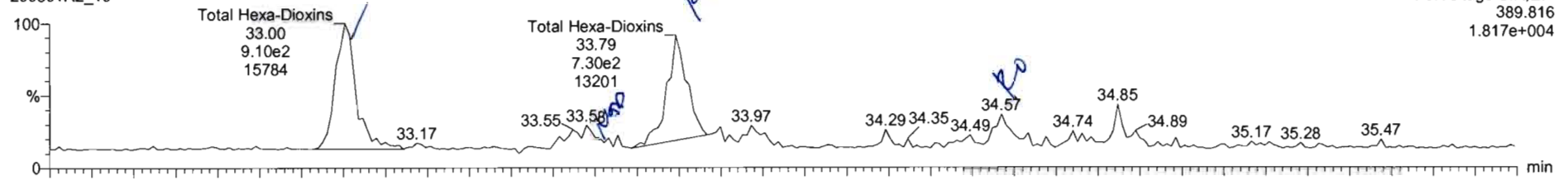
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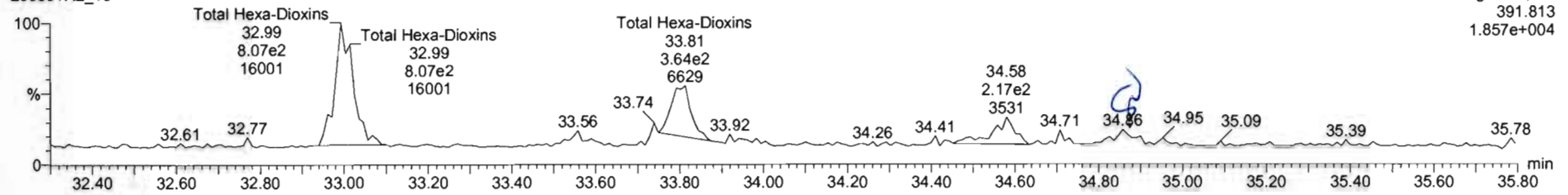
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1,2,3,4,7,8-HxCDD

200501R2\_10

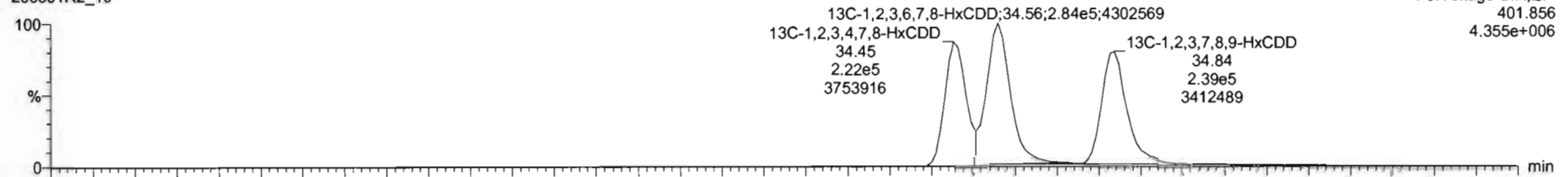


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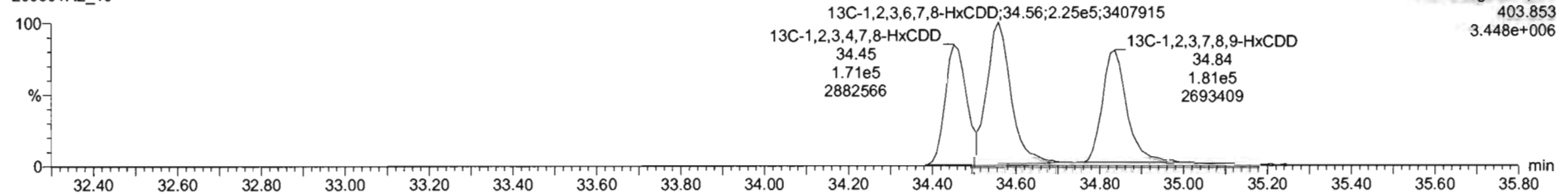


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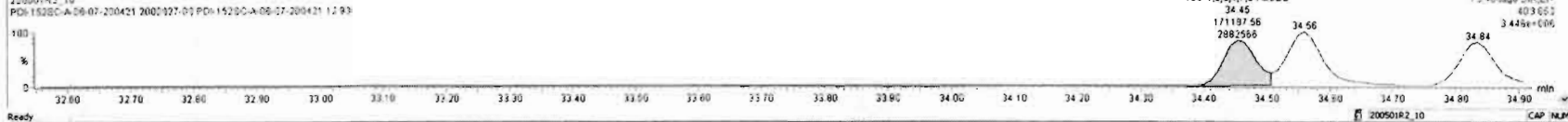
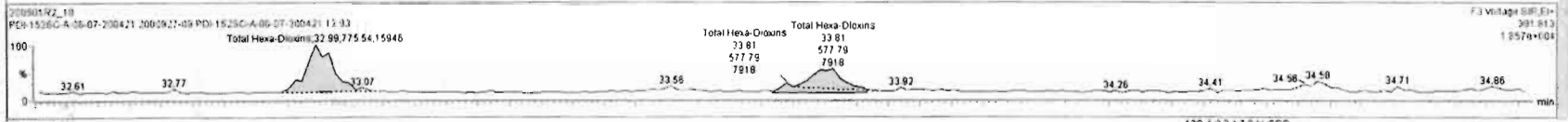
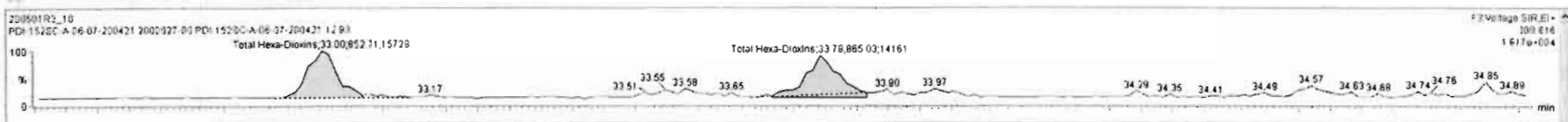
200501R2\_10



200501R2\_10 - 2000927-09 PDI-152SC-A-06-07-200421 12.93 - PDI-152SC-A-06-07-200421

#	Name	Resp	RA	nly	RRF	wtAdj	RT	RRT	Conc	%Rec	DL	EMPC
25	13C-2,3,7,8-TCDF	1.04e5	0.77	NO	1.03	10.033	25.03	0.999	120	60.1	0.327	
26	13C-1,2,3,7,8-PeCDF	8.83e5	1.57	NO	0.85	10.033	29.77	1.177	124	62.1	0.351	
27	13C-2,3,4,7,8-PeCDF	8.35e5	1.61	NO	0.81	10.033	30.76	1.216	122	61.0	0.365	
28	13C-1,2,3,4,7,8-HxCDF	5.92e5	0.51	NO	1.00	10.033	33.80	0.989	101	50.5	0.600	
29	13C-1,2,3,6,7,8-HxCDF	6.63e5	0.51	NO	1.14	10.033	33.72	0.992	996	50.0	0.530	
30	13C-2,3,4,6,7,8-HxCDF	5.34e5	0.51	NO	1.02	10.033	34.26	1.028	89.2	44.7	0.590	
31	13C-1,2,3,7,8-HxCDF	4.52e5	0.53	NO	0.84	10.033	35.18	1.035	91.4	45.8	0.713	
32	13C-1,2,3,4,6,7,8-HxCDF	3.95e5	0.45	NO	0.77	10.033	36.91	1.086	87.4	43.9	0.354	
33	13C-1,2,3,4,7,8,9-HpCDF	2.35e5	0.42	NO	0.48	10.033	38.92	1.145	83.1	41.8	0.566	

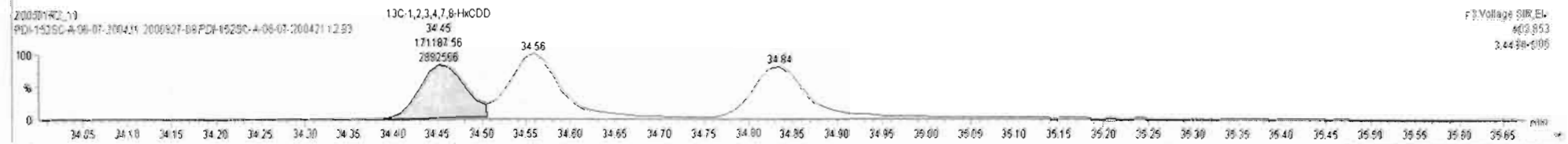
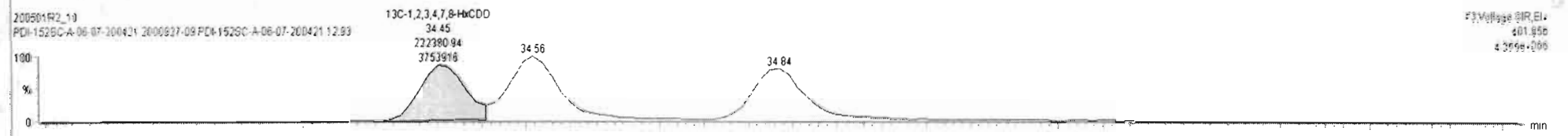
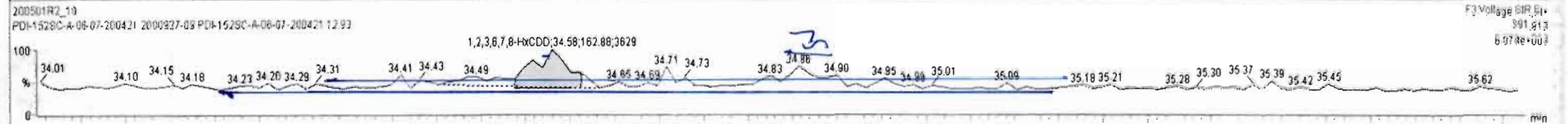
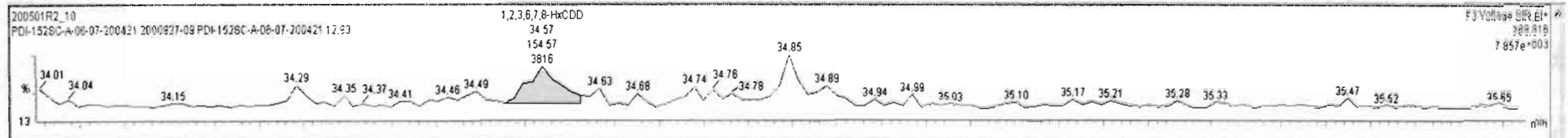
#	Name	RT	wt Resp	mz Resp	RA	nly	EMPC	Conc
1	Total Hexa-Dioxins	33.00	8.527e2	7.755e2	1.10	NO	0.00457	0.00457
2	Total Hexa-Dioxins	33.79	8.650e2	5.770e2	1.50	YES	0.63953	0.00000





Name	Resp	RA	nly	RF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
33 13C-1,2,3,4,7,8,9-HpCDF	2.35e5	0.42	NO	0.48	10.033	38.92	1.145	83.2	41.8	0.586	
34 13C-OCDF	4.30e5	0.88	NO	0.67	10.033	41.49	1.221	110	27.6	0.278	
35 37Cl-2,3,7,8-TCDD	3.69e5			1.10	10.033	26.00	1.028	62.1	77.8	0.0605	
36 13C-1,2,3,4-TCDD	1.08e6	0.80	NO	1.00	10.033	25.30	1.000	199	100	0.244	
37 13C-1,2,3,4-TCDF	1.68e6	0.79	NO	1.00	10.033	23.52	1.000	199	100	0.338	
38 13C-1,2,3,4,6,8-HxCDF	1.17e6	0.51	NO	1.00	10.033	33.98	1.000	199	100	0.603	
39 Total Tetra-Dioxins				0.95	10.033			0.141		0.101	0.272
40 Total Penta-Dioxins				0.94	10.033			0.446		0.0400	0.575
41 Total Hexa-Dioxins				0.91	10.033			0.805		0.121	1.56

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Dioxins	33.00	8.527e2	7.755e2	1.10	NO	0.80457	0.80457
2 Total Hexa-Dioxins	33.79	8.650e2	5.778e2	1.50	YES	0.63953	0.00000
3 1,2,3,6,7,8-HxCDD	34.57	1.546e2	1.629e2	0.95	YES	0.11943	0.00000



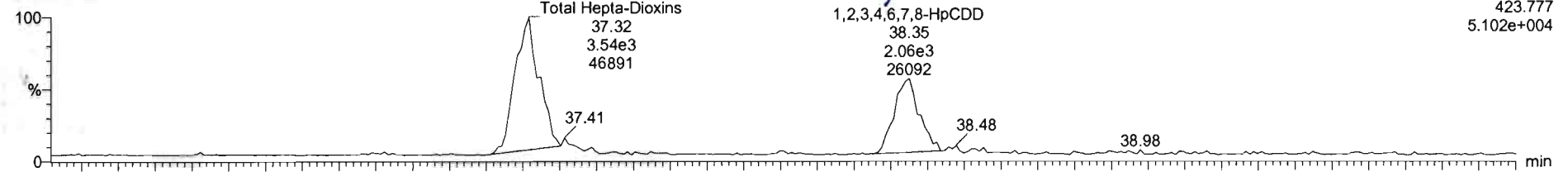
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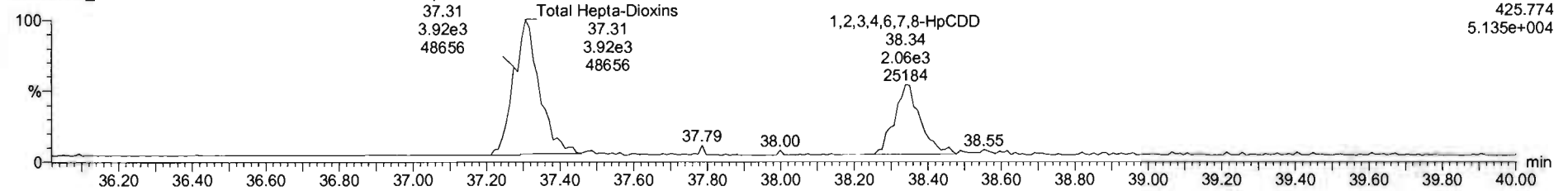
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1,2,3,4,6,7,8-HpCDD

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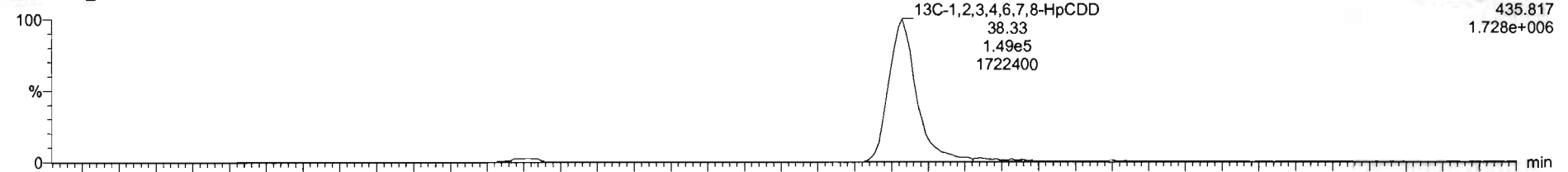


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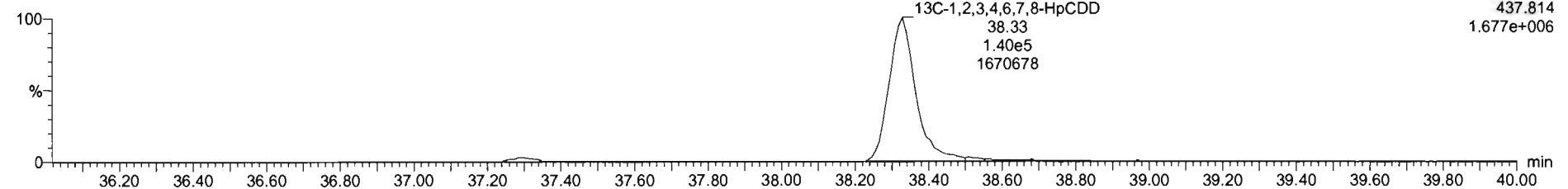


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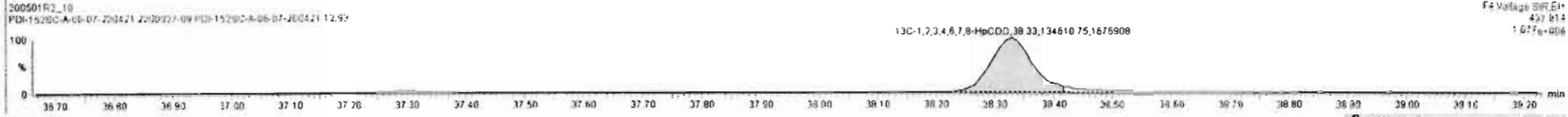
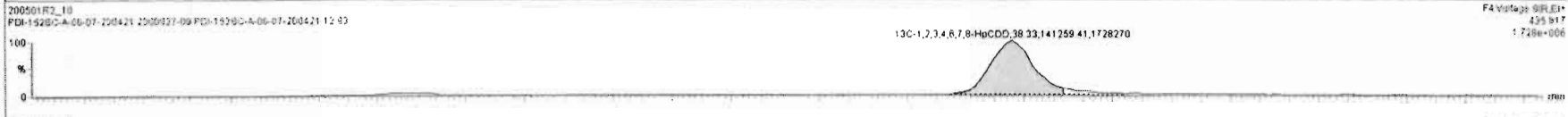
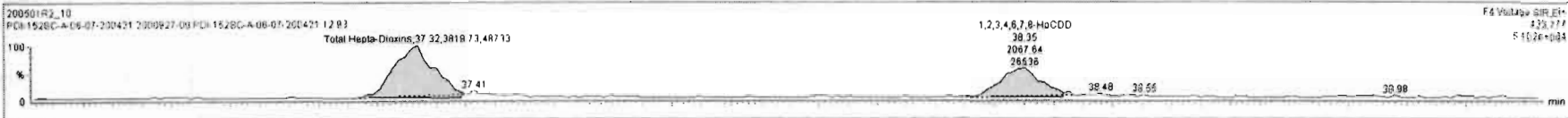


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Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.90	10.033			9.32	0.298	9.32	
43 Total Tetra-Furans				0.79	10.033			1.69	0.0990	2.23	
44 1st Func. Penta-Furans				0.91	10.033			0.000	0.00947	1.24	
45 Total Penta-Furans				0.91	10.033			0.368	0.108	0.939	
46 Total Hexa-Furans				0.92	10.033			1.79	0.0915	1.79	
47 Total Hepta-Furans				0.87	10.033			1.25	0.201	2.38	
48 PFK1											
49 PFK2											
50 PFK3											

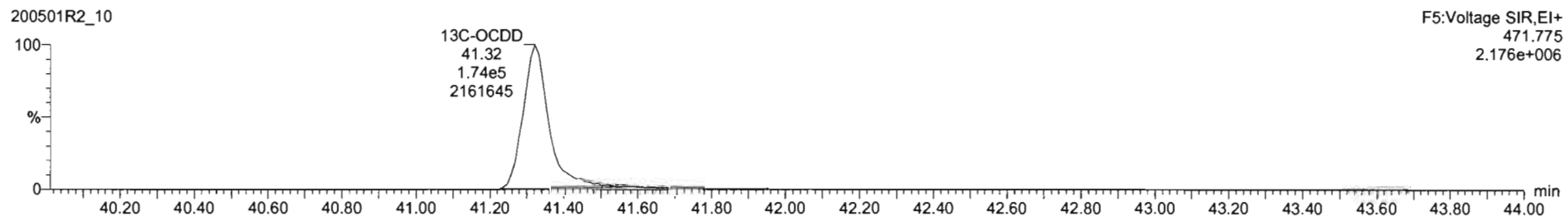
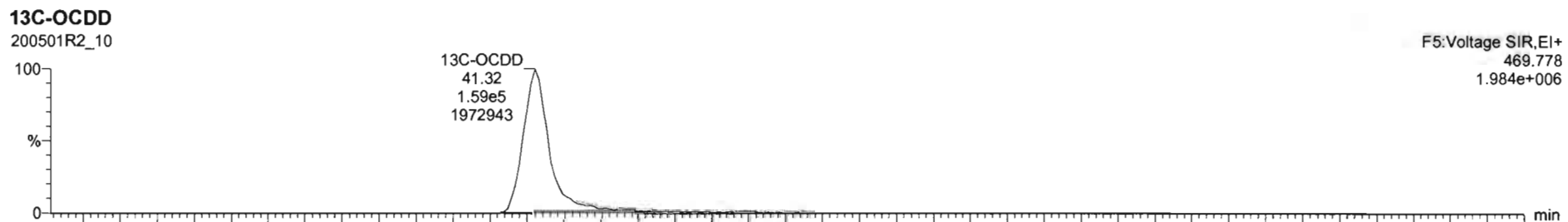
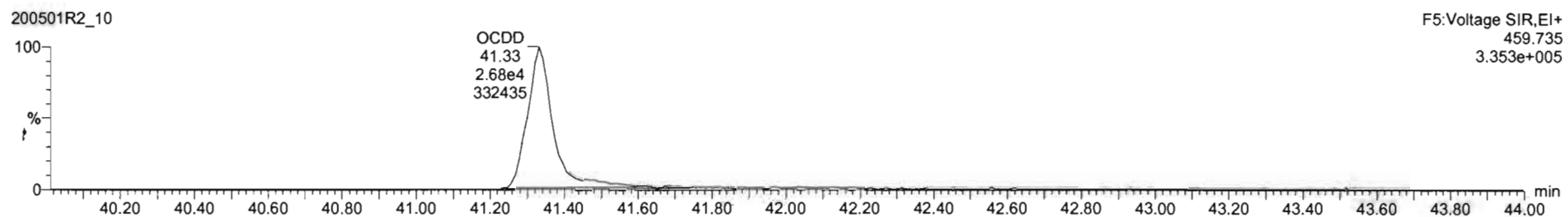
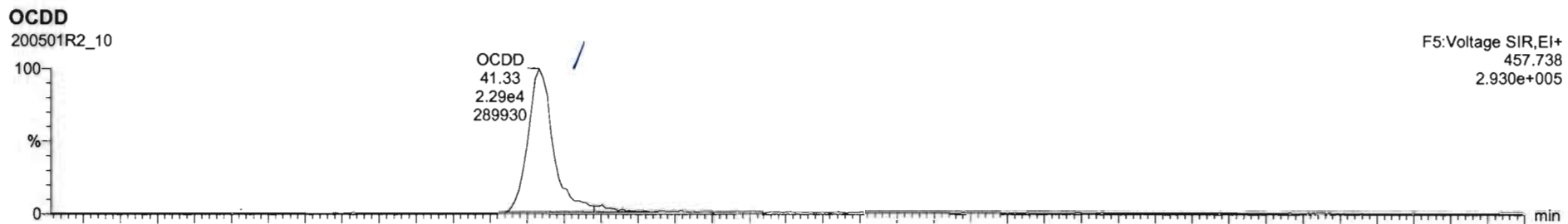
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.32	3.820e3	3.711e3	1.03	NO	5.0600	6.0600
2 1,2,3,4,6,7,8-HpCDD	38.35	2.068e3	1.978e3	1.05	NO	3.2553	3.2553



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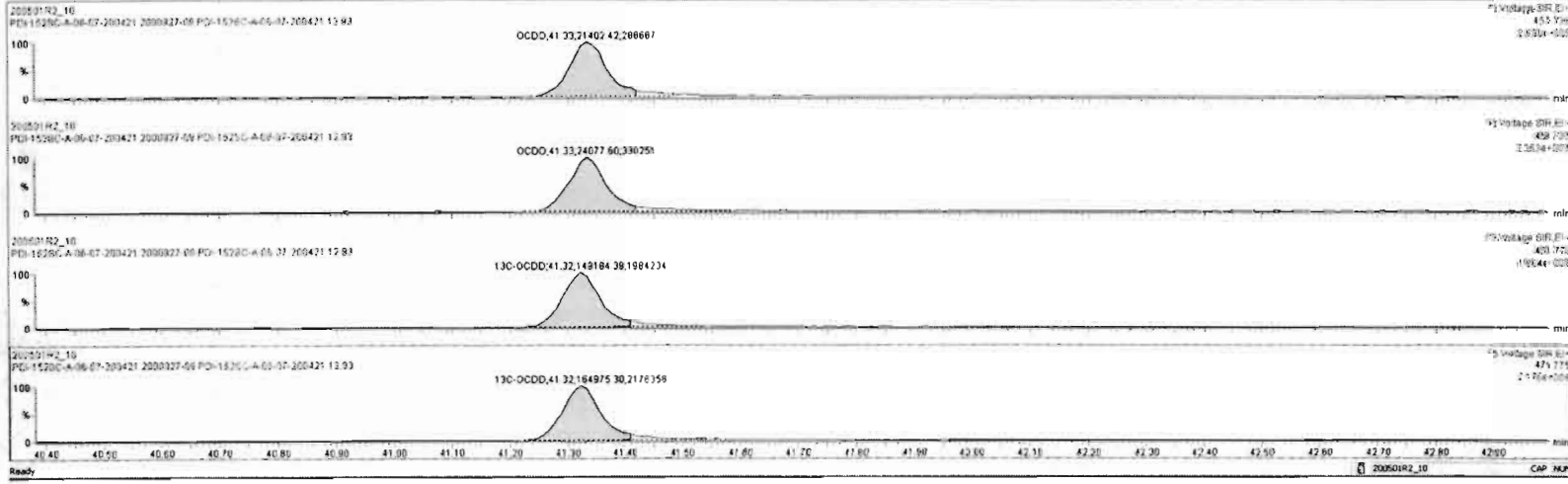
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Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421



Name	Resp	RA	rvy	RF	rtRet	RT	NRT	Conc	%Rec	EC	BMP
1 2,3,7,8-TCDF				NO	0.95	10.033				0.101	
2 1,2,3,7,8-PeCDF				NO	0.94	10.033				0.0967	
3 1,2,3,4,7,8-HxCDF				NO	1.06	10.033				0.106	
4 1,2,3,6,7,8-HxCDF				NO	0.91	10.033				0.107	
5 1,2,3,7,8-HxCDF				NO	0.91	10.033				0.137	
6 1,2,3,4,6,7,8-HpCDF	4.11e3	1.00	NO	0.90	10.033	38.35	1.001	3.16		0.291	3.16
7 OCDD	4.55e4	0.89	NO	0.93	10.033	41.33	1.000	61.8		0.525	61.8
8 2,3,7,8-TCDF				NO	0.79	10.033				0.0960	
9 1,2,3,7,8-PeCDF				NO	0.91	10.033				0.136	

Name	RT	#1 Resp	#2 Resp	RA	rvy	BMP	Conc
1							

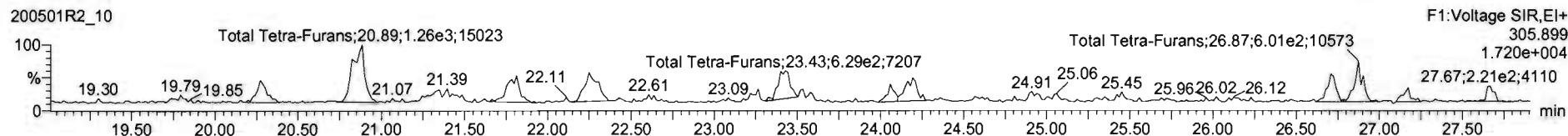
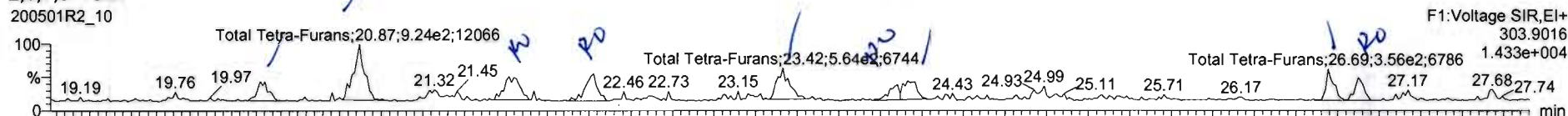


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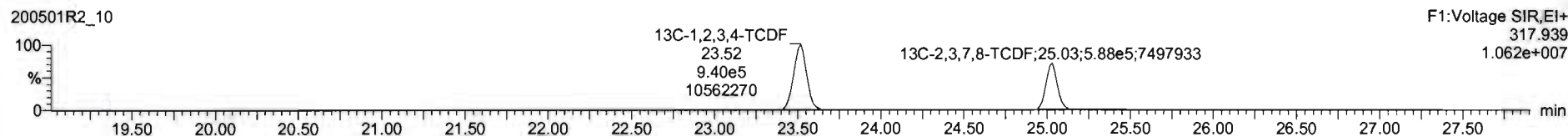
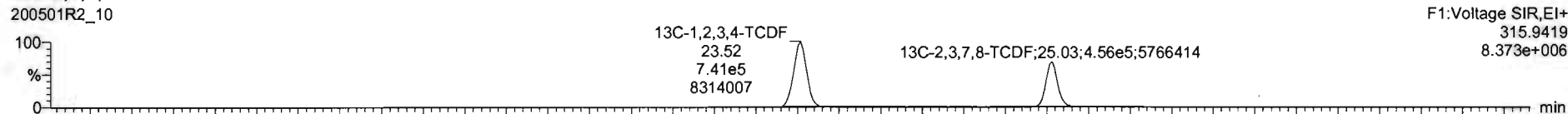
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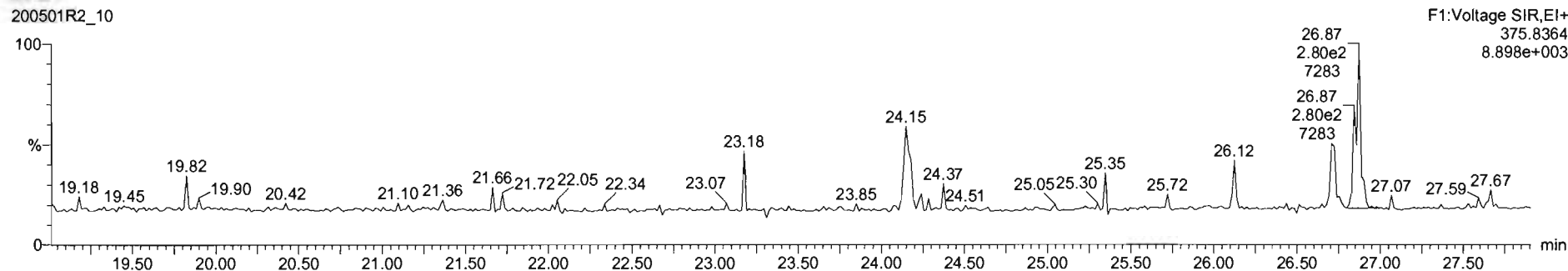
2,3,7,8-TCDF



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



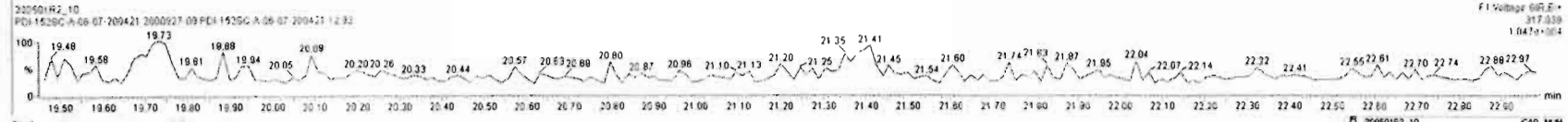
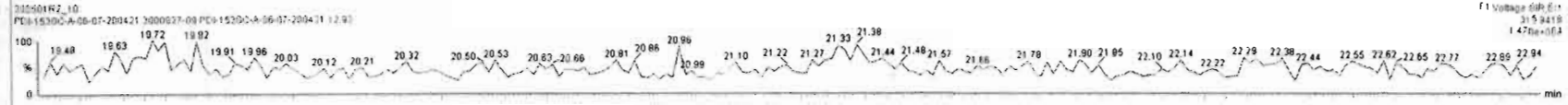
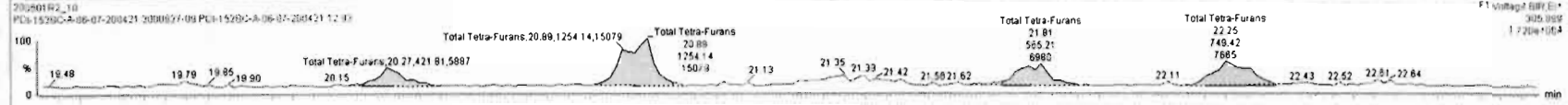
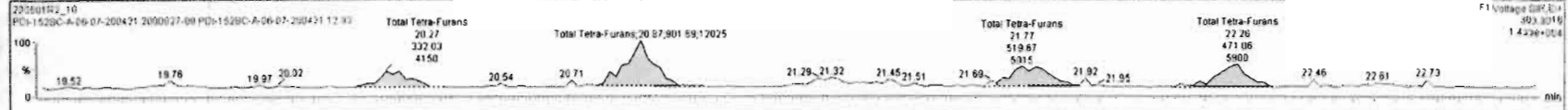
DPE1



200501R2\_10 - 2000927-09 PDI-1529C-A-06-07-200421 12.93 - PDI-1529C-A-06-07-200421

Name	Resp	RA	nV	RRF	wtAcc	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepto-Furans				0.90	10.033	9.32			0.289	9.32	
43 Total Tetra-Furans				0.79	10.033				0.0660	2.20	
44 1st Func. Penta-Furans				0.91	10.033			0.000	0.00947	1.24	
45 Total Penta-Furans				0.91	10.033			0.268	0.106	0.608	
46 Total Hexa-Furans				0.92	10.033			1.79	0.0915	1.79	
47 Total Hepta-Furans				0.87	10.033			1.25	0.201	2.36	
48 PFK1											
49 PFK2											
50 PFK3											

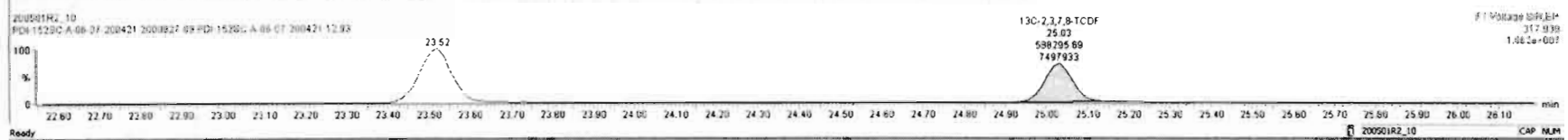
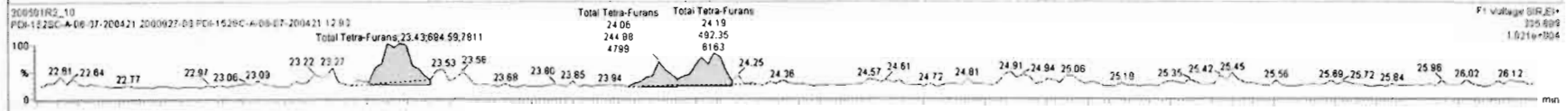
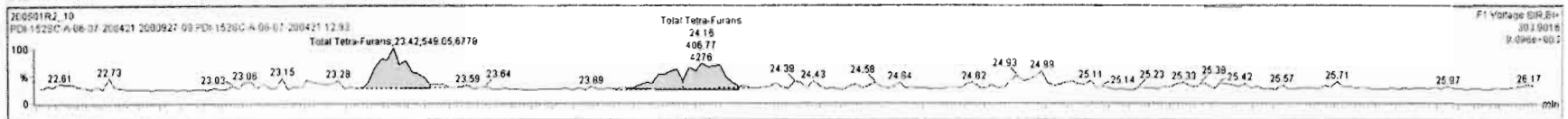
Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1 Total Tetra-Furans	20.27	3.320e2	4.218e2	0.79	NO	0.18285	0.18285
2 Total Tetra-Furans	20.87	9.017e2	1.254e3	0.72	NO	0.52292	0.52292
3 Total Tetra-Furans	21.77	5.197e2	5.852e2	0.92	YES	0.24266	0.00000
4 Total Tetra-Furans	22.26	4.711e2	7.494e2	0.83	YES	0.20265	0.00000
5 Total Tetra-Furans	23.42	5.450e2	6.949e2	0.79	NO	0.33166	0.30166
6 Total Tetra-Furans	24.10	2.316e2	3.449e2	0.95	YES	0.10514	0.00000
7 Total Tetra-Furans	24.16	4.068e2	4.924e2	0.83	NO	0.21809	0.21809
8 Total Tetra-Furans	26.69	3.484e2	4.163e2	0.84	NO	0.18545	0.18549



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Name	Resp	RA	nV	RRF	wtAci	RT	PRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Furans				0.90	10.033			9.37	0.268	9.32	
43 Total Tetra-Furans				0.79	10.033			1.41	0.0980	2.20	
44 1st Func. Penta-Furans				0.91	10.033			0.0001	0.00947	1.24	
45 Total Penta-Furans				0.91	10.033			0.368	0.108	0.926	
46 Total Hexa-Furans				0.92	10.033			1.79	0.0915	1.79	
47 Total Hepta-Furans				0.87	10.033			1.25	0.201	2.38	
48 PPK1											
49 PPK2											
50 PPK3											

Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1 Total Tetra-Furans	20.27	3.320e2	4.218e2	0.79	NO	0.18285	0.18285
2 Total Tetra-Furans	20.87	9.017e2	1.254e3	0.72	NO	0.52292	0.52292
3 Total Tetra-Furans	21.77	5.197e2	5.652e2	0.92	YES	0.24268	0.00000
4 Total Tetra-Furans	22.28	4.711e2	7.494e2	0.63	YES	0.26265	0.00000
5 Total Tetra-Furans	23.42	5.490e2	6.948e2	0.79	NO	3.30166	0.30166
6 Total Tetra-Furans	24.10	2.316e2	2.449e2	0.95	YES	0.10514	0.00000
7 Total Tetra-Furans	24.16	4.068e2	4.304e2	0.83	NO	0.21809	0.21809
8 Total Tetra-Furans	26.89	3.454e2	4.163e2	0.84	NO	0.18549	0.18549

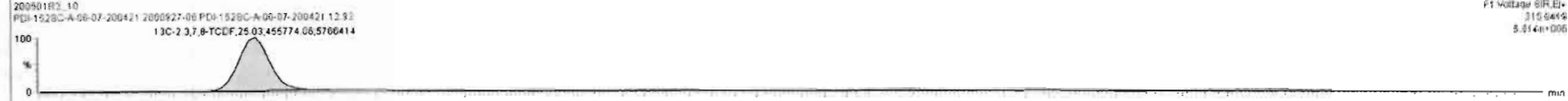
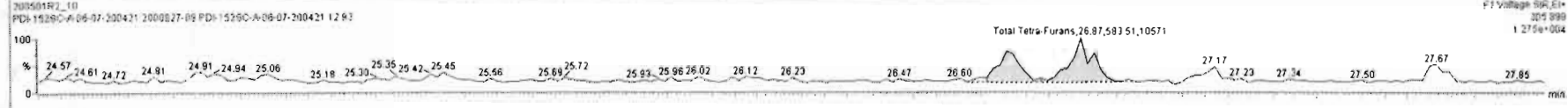
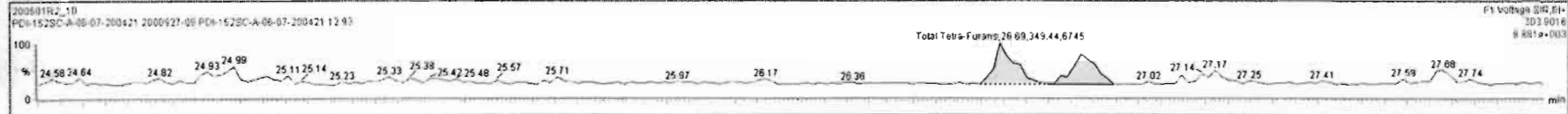




200501R2\_10 - 2000927-09 PDI-1528C-A-06-07-200421 12.93 - PDI-1528C-A-06-07-200421

Name	Resp	RA	nly	RIF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Furans			0.90	10.033				9.32	0.280	9.32	
43 Total Tetra-Furans			0.79	10.033				1.41	0.0980	2.20	
44 1st Furc. Penta-Furans			0.91	10.033				0.000	0.00947	1.24	
45 Total Penta-Furans			0.91	10.033				0.368	0.108	0.939	
46 Total Hexa-Furans			0.92	10.033				1.79	0.0915	1.79	
47 Total Hepta-Furans			0.87	10.033				1.25	0.201	2.38	
48 PFK1											
49 PFK2											
50 PFK3											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.27	3.320e2	4.218e2	0.79	NO	0.18285	0.18285
2 Total Tetra-Furans	20.87	9.017e2	1.254e3	0.72	NO	0.52292	0.52292
3 Total Tetra-Furans	21.77	5.197e2	5.652e2	0.92	YES	0.24266	0.00000
4 Total Tetra-Furans	22.28	4.711e2	7.494e2	0.63	YES	0.26265	0.00000
5 Total Tetra-Furans	23.42	5.490e2	6.946e2	0.76	NO	0.30166	0.30166
6 Total Tetra-Furans	24.10	2.316e2	2.449e2	0.95	YES	0.10514	0.00000
7 Total Tetra-Furans	24.16	4.069e2	4.924e2	0.83	NO	0.21909	0.21909
8 Total Tetra-Furans	26.69	2.484e2	4.163e2	0.84	NO	0.18549	0.18549



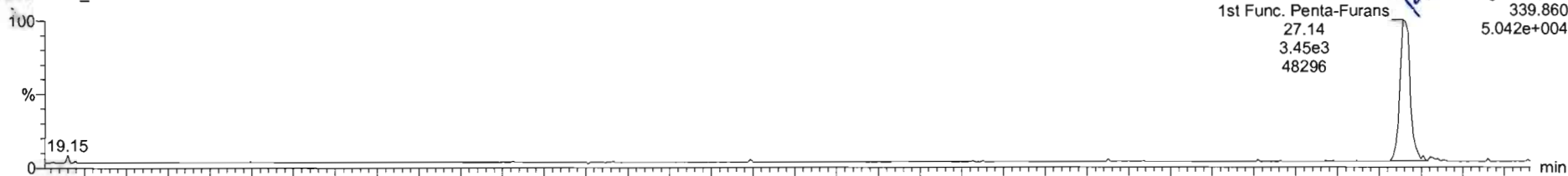
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

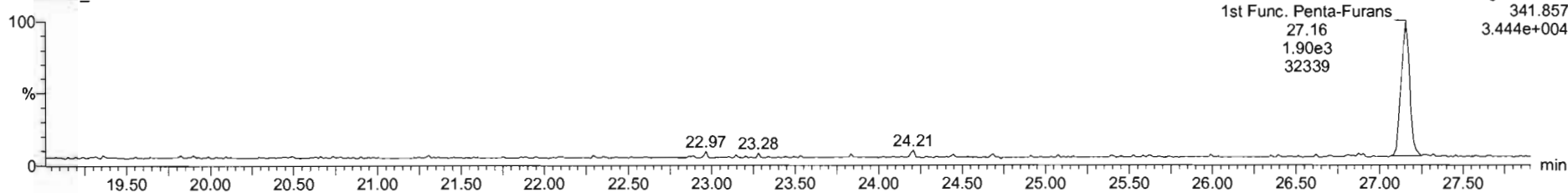
Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421

1st Func. Penta-Furans

200501R2\_10

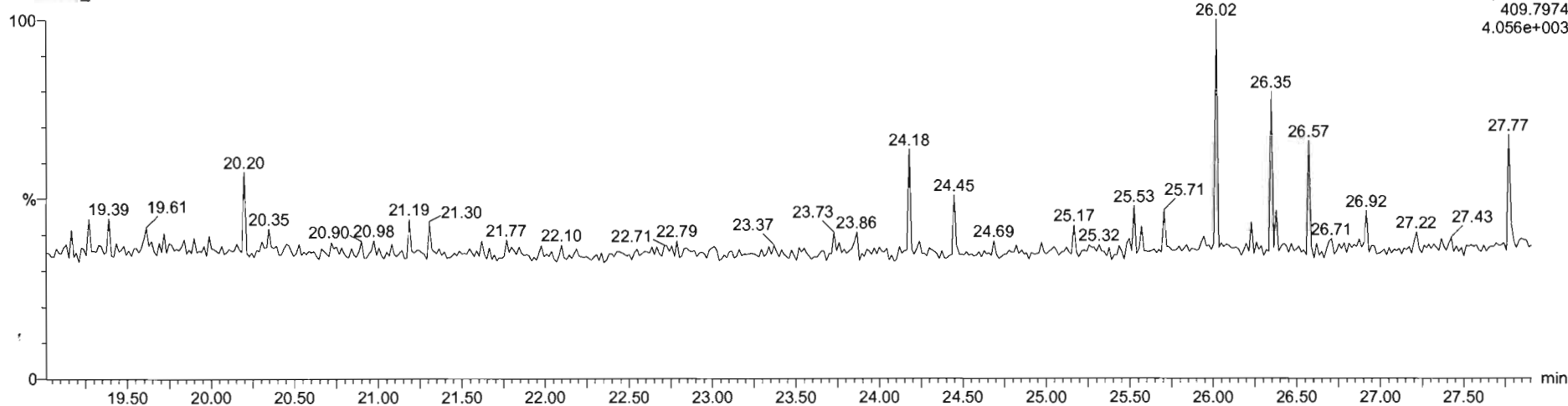


200501R2\_10



DPE6

200501R2\_10

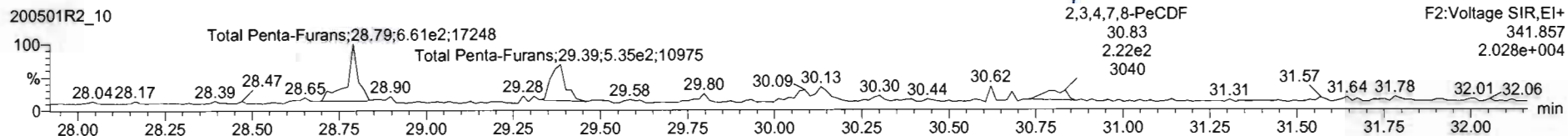
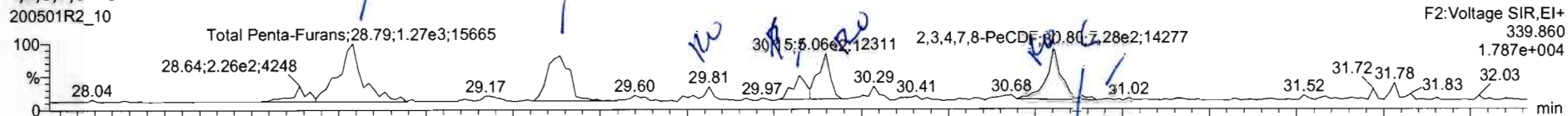


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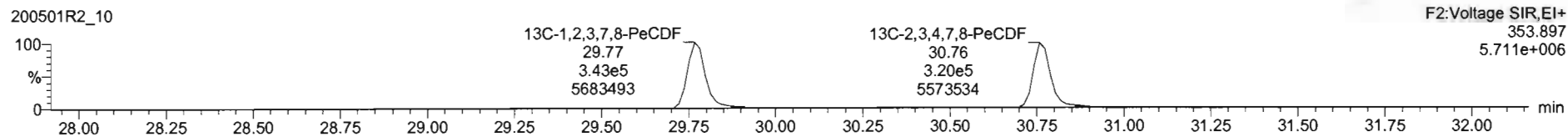
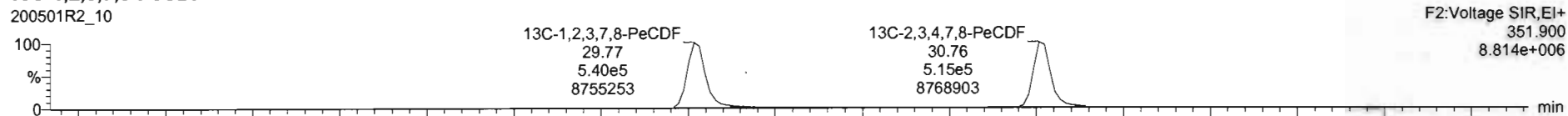
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Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421

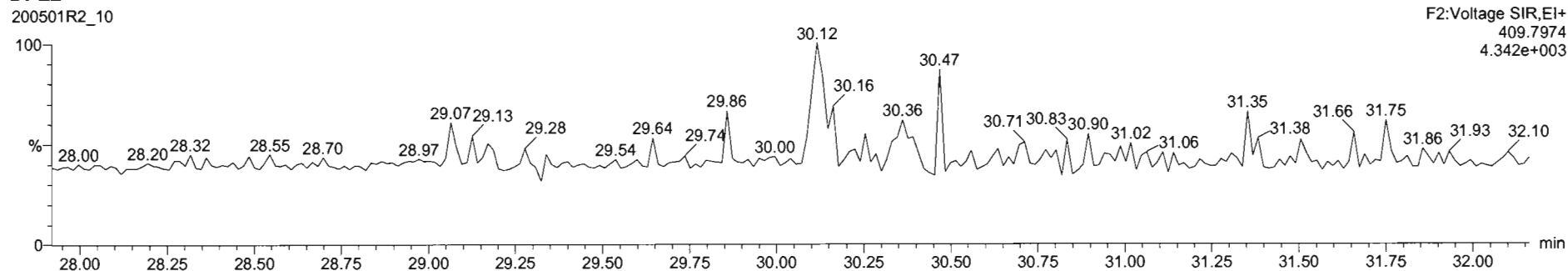
**1,2,3,7,8-PeCDF**

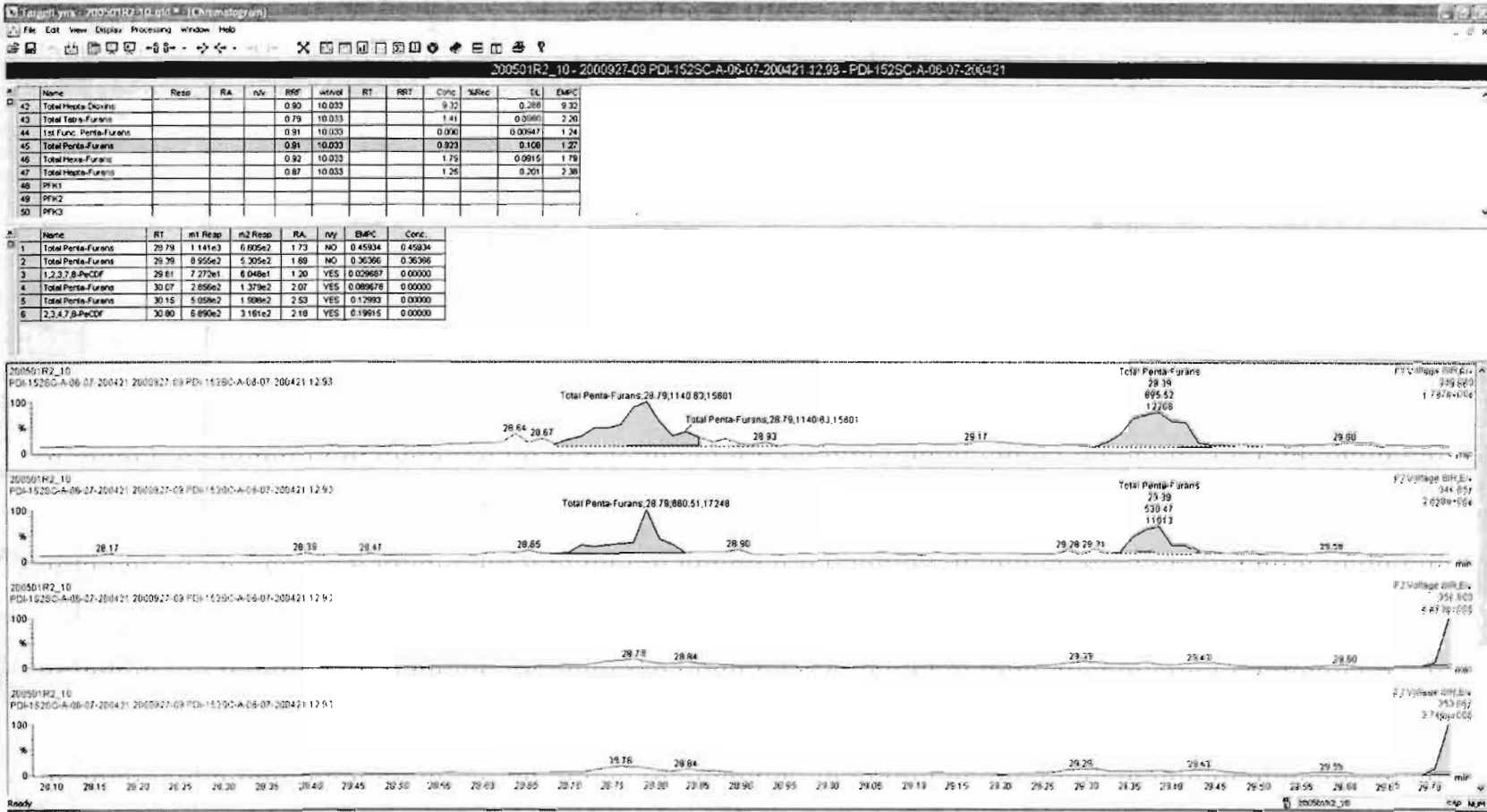


**13C-1,2,3,7,8-PeCDF**



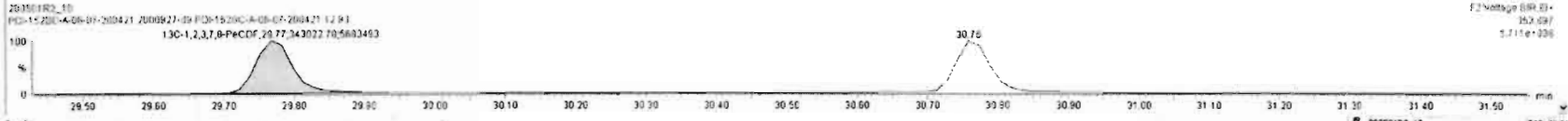
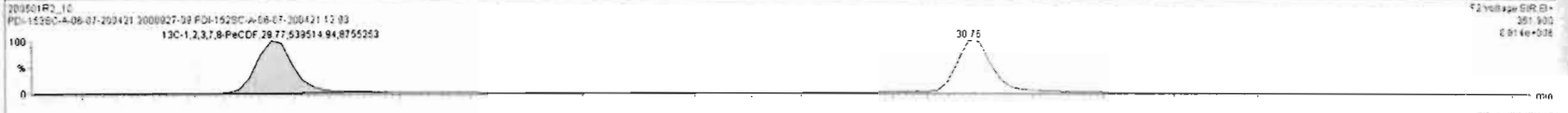
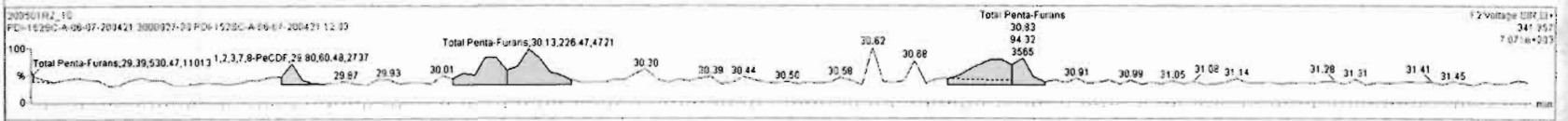
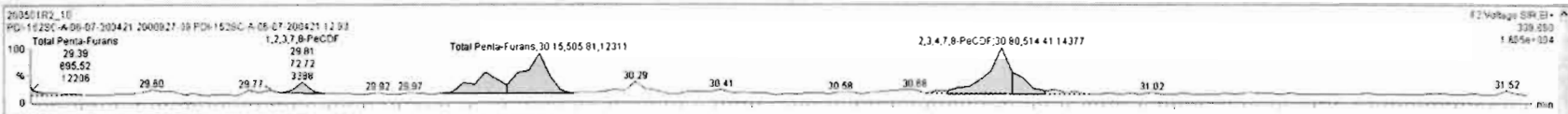
**DPE2**





#	Name	Resp	RA	nW	RR	ndAux	RT	NR1	Conc	%Rec	DL	EMPC
42	Total Hepta-Furans			0.90	10.033				9.32	0.266		9.32
43	Total Tetra-Furans			0.79	10.033				1.41	0.690		2.30
44	Total Func. Furans-Furans			0.91	10.033				0.000	0.00047		1.24
45	Total Penta-Furans			0.91	10.033				0.888	0.108		1.32
46	Total Hexa-Furans			0.92	10.033				1.79	0.0915		1.79
47	Total Hepta-Furans			0.87	10.033				1.25	0.201		2.38
48	PFK1											
49	PFK2											
50	PFK3											

#	Name	RT	ml Resp	nl2 Resp	RA	nW	EMPC	Conc.
1	Total Penta-Furans	29.79	1.141e3	6.605e2	1.73	NO	0.45934	0.45934
2	Total Penta-Furans	29.39	8.955e2	5.305e2	1.69	NO	0.36366	0.36366
3	1,2,3,7,8-PeCDF	29.81	2.272e1	5.049e1	1.20	YES	0.02689	0.00000
4	Total Penta-Furans	30.07	2.856e2	1.727e2	1.65	NO	0.11687	0.00000
5	Total Penta-Furans	30.15	5.058e2	2.265e2	2.23	YES	0.14726	0.00000
6	2,3,4,7,8-PeCDF	30.80	5.144e2	2.174e2	2.37	YES	0.13696	0.00000
7	Total Penta-Furans	30.82	1.653e2	5.432e1	1.75	NO	0.066207	0.066207

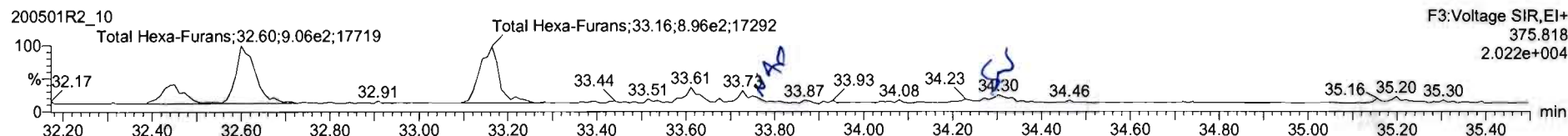
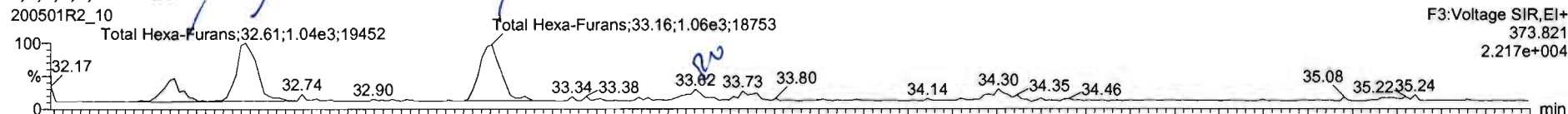


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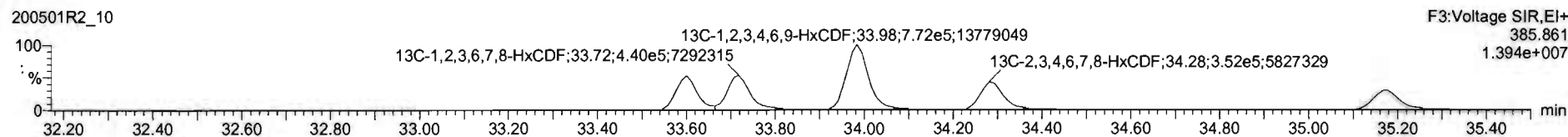
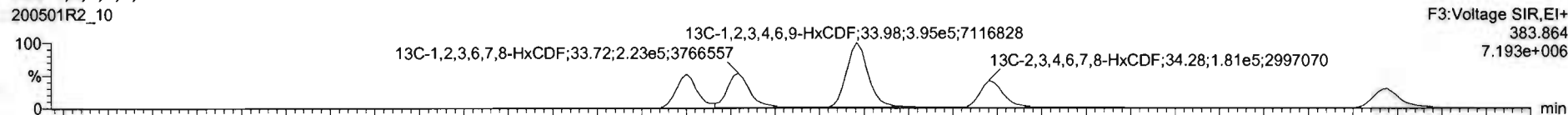
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421

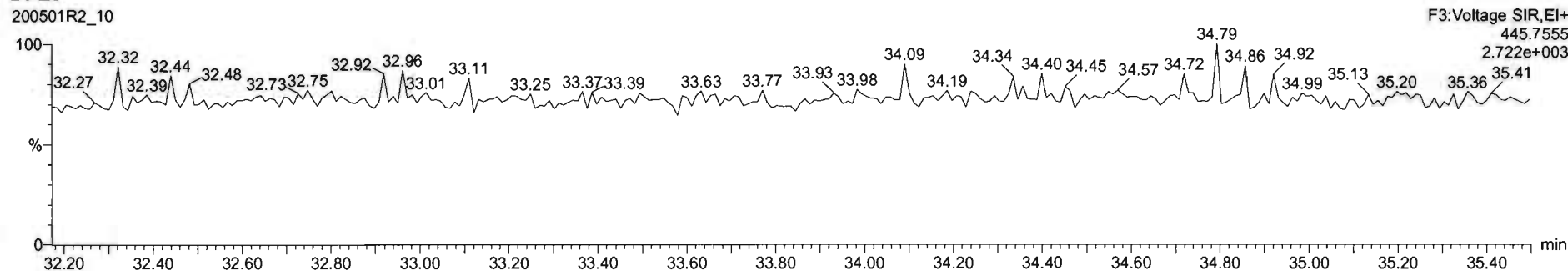
**1,2,3,4,7,8-HxCDF**



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

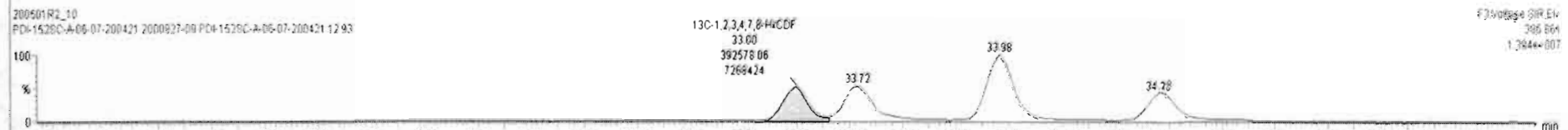
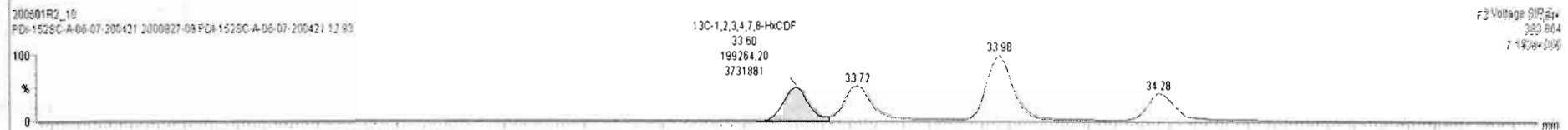
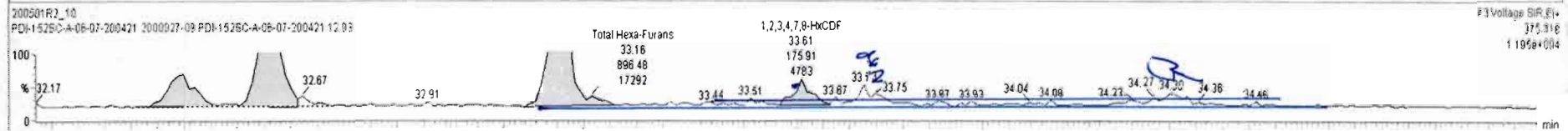
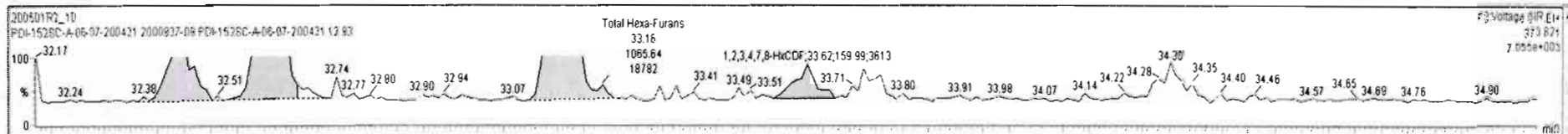


**DPE3**



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxans				0.90	10.033			9.32		0.268	9.32
43 Total Tetra-Furans				0.79	10.033			1.41		0.0880	2.20
44 1st Func. Penta-Furans				0.91	10.033			0.000		0.00947	1.24
45 Total Penta-Furans				0.91	10.033			1.01		0.108	1.32
46 Total Hexa-Furans				0.92	10.033			1.74		0.0915	1.85
47 Total Hepta-Furans				0.87	10.033			1.25		0.201	2.38
48 PFK1											
49 PFK2											
50 PFK3											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.45	3.675e2	3.248e2	1.13	NO	0.26733	0.26733
2 Total Hexa-Furans	32.61	1.004e3	8.586e2	1.17	NO	0.71857	0.71857
3 Total Hexa-Furans	33.16	1.066e3	8.955e2	1.19	NO	0.75768	0.75768
4 1,2,3,4,7,8-HxCDF	33.62	1.600e2	1.759e2	0.91	YES	0.11084	0.00000



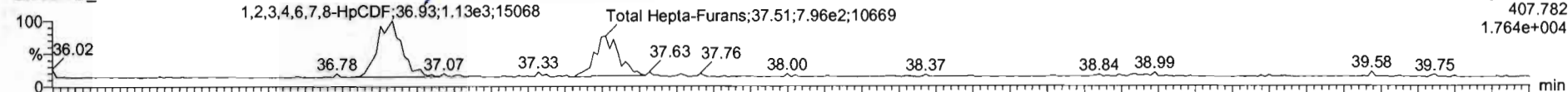
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Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421

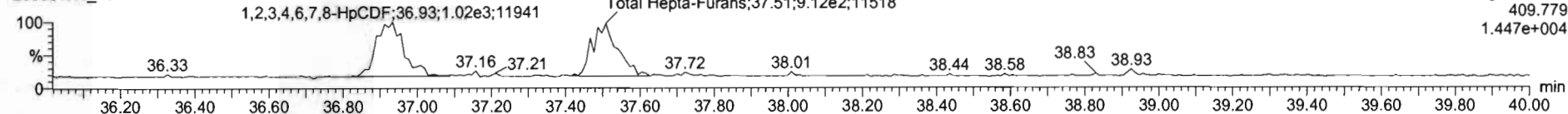
**1,2,3,4,6,7,8-HpCDF**

200501R2\_10



F4: Voltage SIR, EI+  
407.782  
1.764e+004

200501R2\_10



F4: Voltage SIR, EI+  
409.779  
1.447e+004

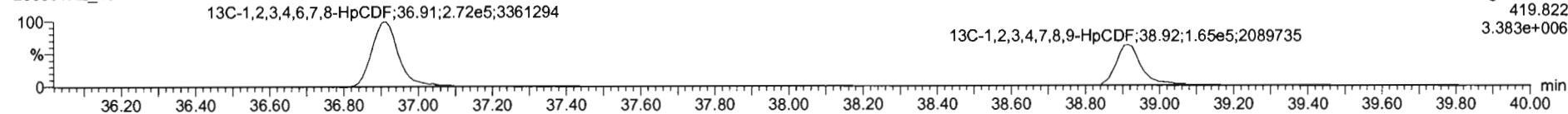
**13C-1,2,3,4,6,7,8-HpCDF**

200501R2\_10



F4: Voltage SIR, EI+  
417.825  
1.506e+006

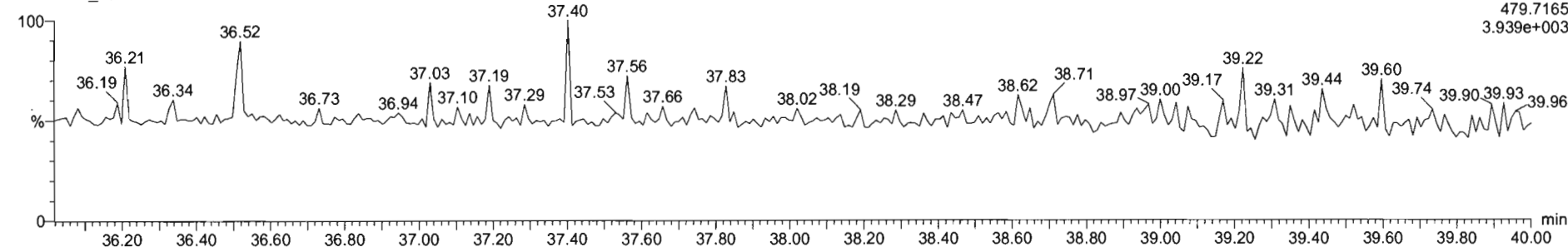
200501R2\_10



F4: Voltage SIR, EI+  
419.822  
3.383e+006

**DPE4**

200501R2\_10



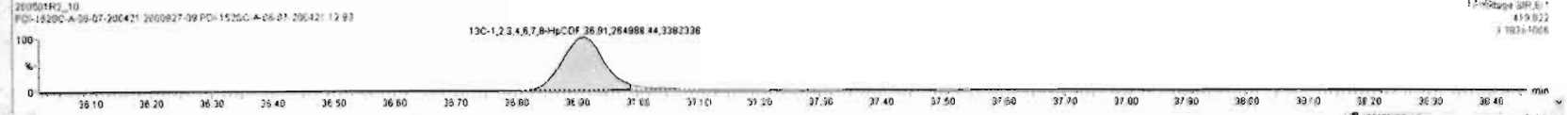
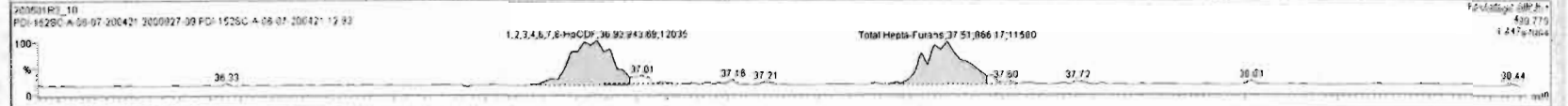
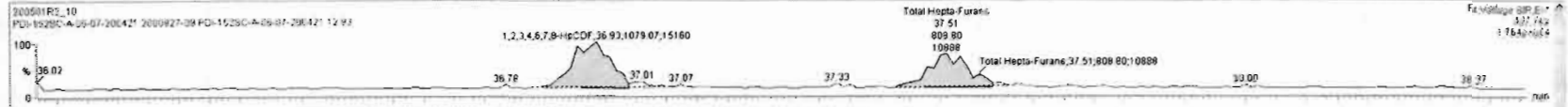
F4: Voltage SIR, EI+  
479.7165  
3.939e+003



200501R2\_10 - 2000927-09 PDI-1525C-A-06-07-200421 12.93 - PDI-1525C-A-06-07-200421

Name	Resp	RA	nHy	RF	VolVol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Furans				0.90	10.033			8.32	0.289		9.32
43 Total Tetra-Furans				0.79	10.033			1.41	0.0460		2.20
44 1st Func. Penta-Furans				0.91	10.033			0.060	0.00947		1.24
45 Total Penta-Furans				0.91	10.033			1.01	0.108		1.32
46 Total Hexa-Furans				0.92	10.033			1.74	0.0915		1.95
47 Total Hepta-Furans				0.87	10.033			2.45	0.201		2.45
48 PFK1											
49 PFK2											
50 PFK3											

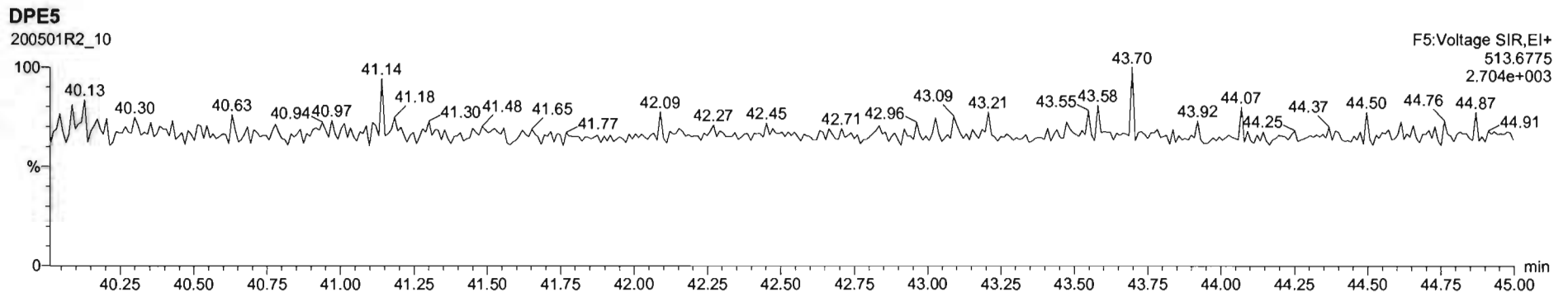
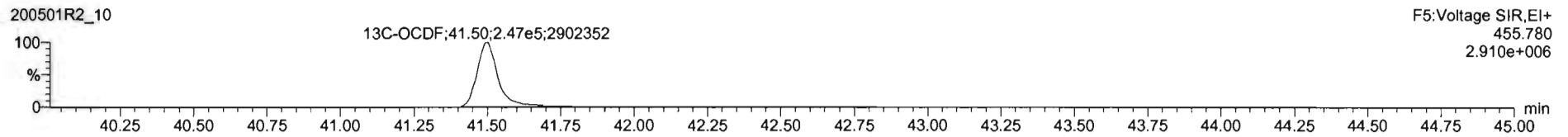
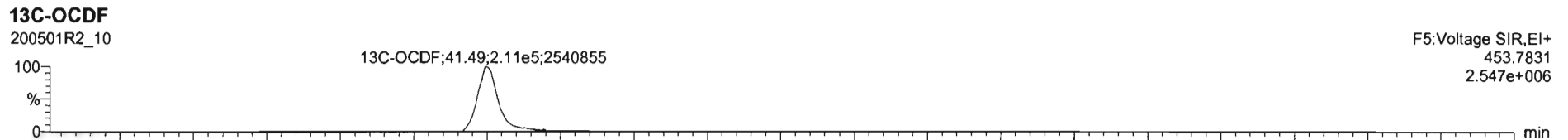
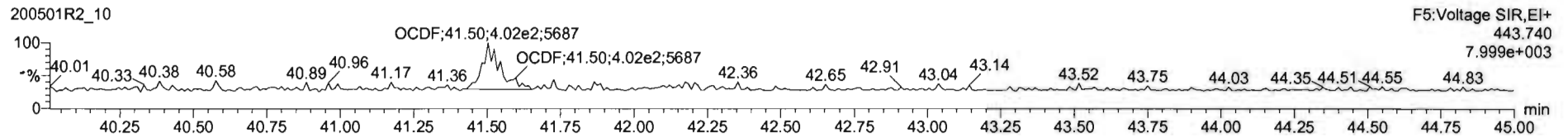
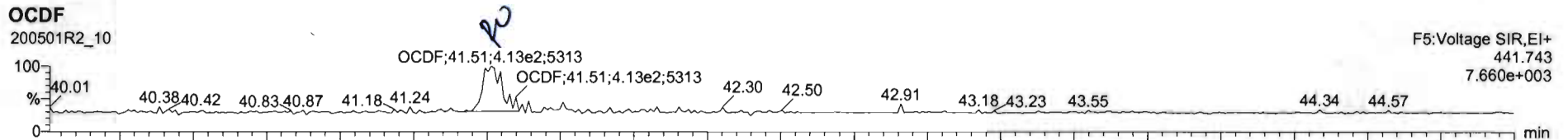
Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.93	1.073e3	9.437e2	1.14	NO	1.2109	1.2109
2 Total Hepta-Furans	37.51	8.088e2	8.662e2	0.93	NO	1.2419	1.2419



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Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
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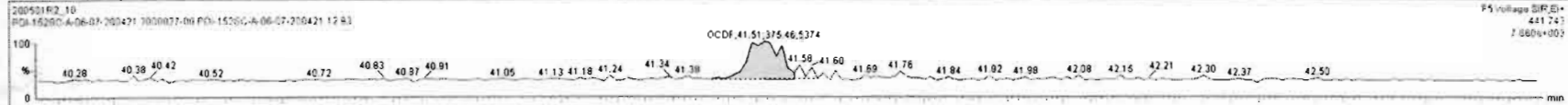
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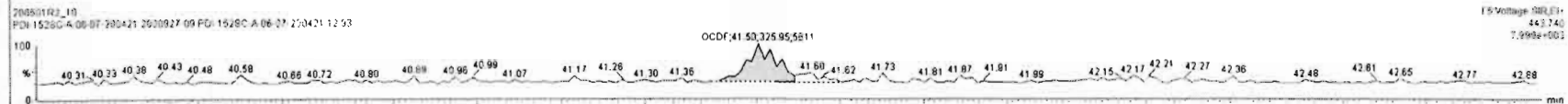
200501R2\_10 - 2000927-09 PDI-1525C-A-06-07-200421 12.93 . PDI-1525C-A-06-07-200421

Name	Resp	RA	nly	RRF	wtdVd	RT	RRT	Conc	%Rec	DL	EMPC
10 2,3,4,7,8-PeCDF	950e2	3.27	YES	0.97	10.033	30.80	1.001	0.225		0.102	0.140
11 1,2,3,4,7,8-HxCDF			NO	0.86	10.033					0.0787	
12 1,2,3,6,7,8-HxCDF			NO	0.87	10.033					0.0782	
13 2,3,4,6,7,8-HxCDF			NO	0.92	10.033					0.0943	
14 1,2,3,7,8,9-HxCDF			NO	0.86	10.033					0.144	
15 1,2,3,4,6,7,8-HpCDF	2.15e3	1.11	NO	0.87	10.033	36.93	1.001	1.25		0.169	1.25
16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.022					0.220	
17 OCDF	7.01e2	1.15	YES	0.90	10.033	41.51	1.001	0.810		0.298	0.712
18 13C-2,3,7,8-TCDF	7.63e5	0.79	NO	1.16	10.033	25.96	1.027	122	61.0	0.210	

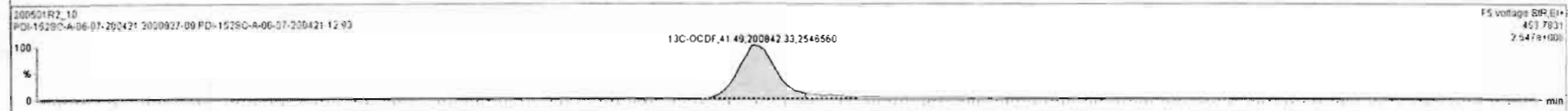
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1							



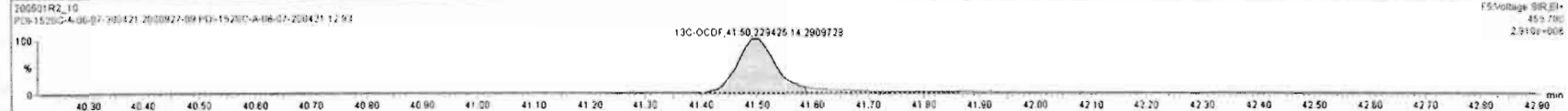
F5 Voltage 50R.EI+  
441.743  
7.080e+002



F5 Voltage 50R.EI+  
443.740  
7.998e+002



F5 Voltage 50R.EI+  
453.7031  
2.547e+003

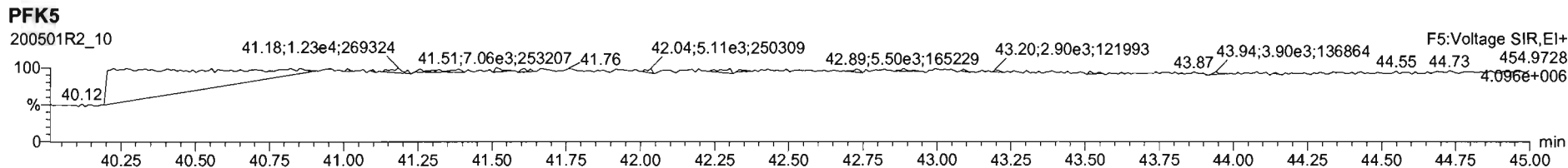
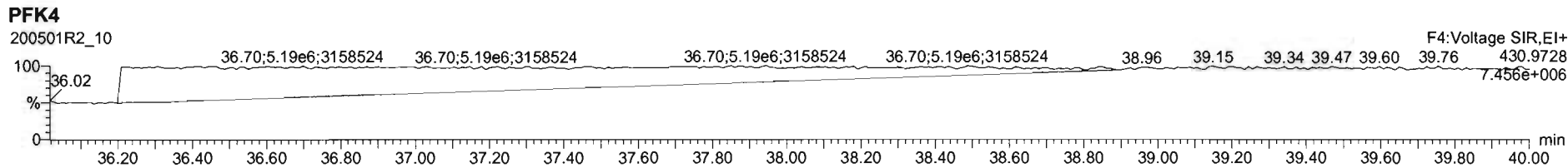
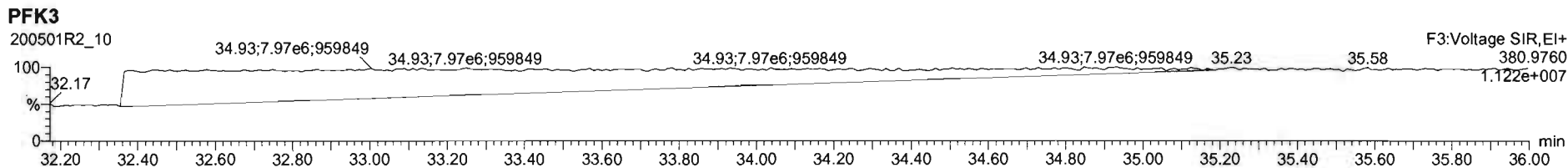
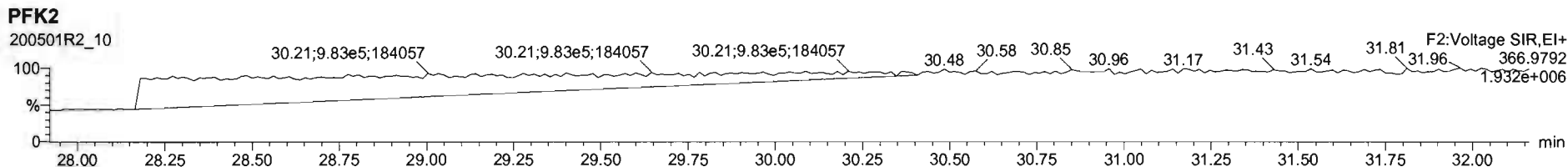
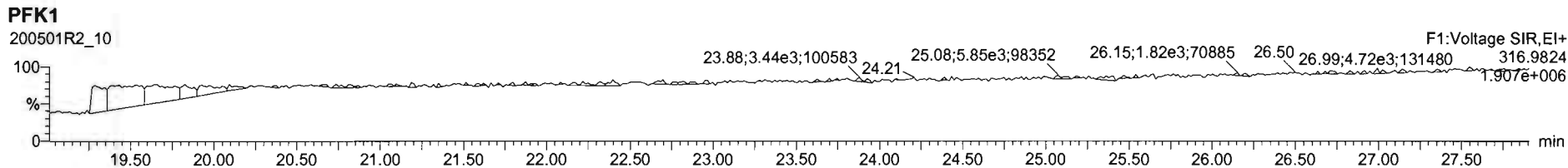


F5 Voltage 50R.EI+  
455.780  
2.910e+006

Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
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Name: 200501R2\_10, Date: 01-May-2020, Time: 22:19:02, ID: 2000927-09 PDI-152SC-A-06-07-200421 12.93, Description: PDI-152SC-A-06-07-200421



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-11.qld

Last Altered: Saturday, May 02, 2020 11:58:07 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:58:36 Pacific Daylight Time

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

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

Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421, Task: ST200501R2\_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.01e3	0.16	YES	0.947	10.057	26.02	1.002	0.17642		0.0566	0.0564
2	1,2,3,7,8-PeCDD			NO	0.942	10.057					0.0547	
3	1,2,3,4,7,8-HxCDD			NO	1.06	10.057					0.0899	
4	1,2,3,6,7,8-HxCDD			NO	0.915	10.057					0.0853	
5	1,2,3,7,8,9-HxCDD			NO	0.915	10.057					0.111	
6	1,2,3,4,6,7,8-HpCDD	2.27e3	1.00	NO	0.898	10.057	38.35	1.001	0.97014		0.193	0.970
7	OCDD	1.55e4	0.82	NO	0.933	10.057	41.33	1.000	9.5646		0.274	9.56
8	2,3,7,8-TCDF			NO	0.787	10.057					0.0415	
9	1,2,3,7,8-PeCDF			NO	0.910	10.057					0.0461	
10	2,3,4,7,8-PeCDF			NO	0.966	10.057					0.0438	
11	1,2,3,4,7,8-HxCDF			NO	0.878	10.057					0.0579	
12	1,2,3,6,7,8-HxCDF			NO	0.874	10.057					0.0568	
13	2,3,4,6,7,8-HxCDF			NO	0.922	10.057					0.0685	
14	1,2,3,7,8,9-HxCDF			NO	0.864	10.057					0.0953	
15	1,2,3,4,6,7,8-HpCDF	6.67e2	0.85	YES	0.871	10.057	36.89	1.000	0.20938		0.0741	0.189
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.057					0.0997	
17	OCDF	4.77e2	0.66	YES	0.802	10.057	41.49	1.000	0.28381		0.171	0.239
18	13C-2,3,7,8-TCDD	1.19e6	0.80	NO	1.16	10.057	25.98	1.026	163.93	82.4	0.188	
19	13C-1,2,3,7,8-PeCDD	9.13e5	0.64	NO	0.847	10.057	31.08	1.228	172.53	86.8	0.340	
20	13C-1,2,3,4,7,8-HxCDD	6.80e5	1.37	NO	0.750	10.057	34.45	1.014	136.46	68.6	0.460	
21	13C-1,2,3,6,7,8-HxCDD	8.87e5	1.22	NO	0.963	10.057	34.55	1.017	138.70	69.7	0.358	
22	13C-1,2,3,7,8,9-HxCDD	7.46e5	1.23	NO	0.838	10.057	34.83	1.025	134.00	67.4	0.412	
23	13C-1,2,3,4,6,7,8-HpCDD	5.19e5	1.04	NO	0.641	10.057	38.33	1.128	121.85	61.3	0.377	
24	13C-OCDD	6.93e5	0.90	NO	0.586	10.057	41.32	1.216	177.83	44.7	0.419	
25	13C-2,3,7,8-TCDF	1.59e6	0.77	NO	1.03	10.057	25.03	0.989	160.53	80.7	0.302	
26	13C-1,2,3,7,8-PeCDF	1.48e6	1.59	NO	0.845	10.057	29.77	1.176	183.07	92.1	0.524	
27	13C-2,3,4,7,8-PeCDF	1.38e6	1.58	NO	0.814	10.057	30.76	1.215	177.16	89.1	0.544	
28	13C-1,2,3,4,7,8-HxCDF	1.02e6	0.52	NO	1.00	10.057	33.60	0.989	152.60	76.7	0.537	
29	13C-1,2,3,6,7,8-HxCDF	1.15e6	0.52	NO	1.14	10.057	33.72	0.992	152.60	76.7	0.475	
30	13C-2,3,4,6,7,8-HxCDF	9.37e5	0.51	NO	1.02	10.057	34.28	1.009	137.92	69.3	0.528	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-11.qld

Last Altered: Saturday, May 02, 2020 11:58:07 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:58:36 Pacific Daylight Time

Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421, Task: ST200501R2\_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	7.97e5	0.51	NO	0.845	10.057	35.17	1.035	141.97	71.4	0.639	
32	13C-1,2,3,4,6,7,8-HpCDF	7.27e5	0.44	NO	0.771	10.057	36.90	1.086	141.93	71.4	0.433	
33	13C-1,2,3,4,7,8,9-HpCDF	4.38e5	0.43	NO	0.482	10.057	38.90	1.145	136.86	68.8	0.692	
34	13C-OCDF	8.34e5	0.87	NO	0.669	10.057	41.50	1.221	187.81	47.2	0.319	
35	37Cl-2,3,7,8-TCDD	5.13e5			1.10	10.057	26.00	1.027	74.800	94.0	0.0438	
36	13C-1,2,3,4-TCDD	1.24e6	0.79	NO	1.00	10.057	25.32	1.000	198.87	100	0.218	
37	13C-1,2,3,4-TCDF	1.90e6	0.79	NO	1.00	10.057	23.53	1.000	198.87	100	0.312	
38	13C-1,2,3,4,6,9-HxCDF	1.32e6	0.52	NO	1.00	10.057	33.98	1.000	198.87	100	0.540	
39	Total Tetra-Dioxins				0.947	10.057			0.12056		0.0353	0.177
40	Total Penta-Dioxins				0.942	10.057			0.045985		0.0251	0.0717
41	Total Hexa-Dioxins				0.915	10.057			0.53584		0.0991	0.536
42	Total Hepta-Dioxins				0.898	10.057			2.5150		0.193	2.51
43	Total Tetra-Furans				0.787	10.057					0.0183	
44	1st Func. Penta-Furans				0.910	10.057			0.11856		0.0189	0.119
45	Total Penta-Furans				0.910	10.057					0.0333	
46	Total Hexa-Furans				0.922	10.057			0.093648		0.0401	0.166
47	Total Hepta-Furans				0.871	10.057			0.00000		0.0439	0.189

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-11.qld

Last Altered: Saturday, May 02, 2020 11:58:07 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:58:36 Pacific Daylight Time

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

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

Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421,

Task: ST200501R2\_2

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.73	3.615e3	4.890e3	3.142e2	3.679e2	0.85	NO	6.821e2	0.12056	0.12056	0.0353
2	2,3,7,8-TCDD	26.02	3.011e3	1.255e4	1.389e2	8.705e2	0.16	YES	1.009e3	0.00000	0.056442	0.0566

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.82	2.409e3	2.058e3	5.849e1	6.830e1	0.86	YES	0.000e0	0.00000	0.025722	0.0251
2	Total Penta-Dioxins	29.32	3.845e3	3.691e3	8.279e1	1.162e2	0.71	NO	1.990e2	0.045985	0.045985	0.0251

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.368e4	1.400e4	7.802e2	5.629e2	1.39	NO	1.343e3	0.37890	0.37890	0.0991
2	Total Hexa-Dioxins	33.80	6.688e3	3.794e3	3.068e2	2.495e2	1.23	NO	5.563e2	0.15694	0.15694	0.0991

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.30	2.094e4	2.091e4	1.830e3	1.792e3	1.02	NO	3.621e3	1.5448	1.5448	0.193
2	1,2,3,4,6,7,8-HpCDD	38.35	1.351e4	1.155e4	1.136e3	1.138e3	1.00	NO	2.274e3	0.97014	0.97014	0.193

**Tetra-Furans**

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

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-11.qld

Last Altered: Saturday, May 02, 2020 11:58:07 Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:58:36 Pacific Daylight Time

Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421,  
 Task: ST200501R2\_2

**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	27.16	7.629e3	4.561e3	4.827e2	2.914e2	1.66	NO	7.741e2	0.11856	0.11856	0.0189

**Penta-Furans**

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

**Hexa-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Hexa-Furans	32.61	4.944e3	5.094e3	1.802e2	1.832e2	0.98	YES	0.000e0	0.00000	0.071956	0.0401
Total Hexa-Furans	33.12	4.989e3	4.164e3	2.324e2	1.912e2	1.22	NO	4.236e2	0.093648	0.093648	0.0401

**Hepta-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1,2,3,4,6,7,8-HpCDF	36.89	4.058e3	5.275e3	3.061e2	3.607e2	0.85	YES	6.669e2	0.00000	0.18855	0.0741



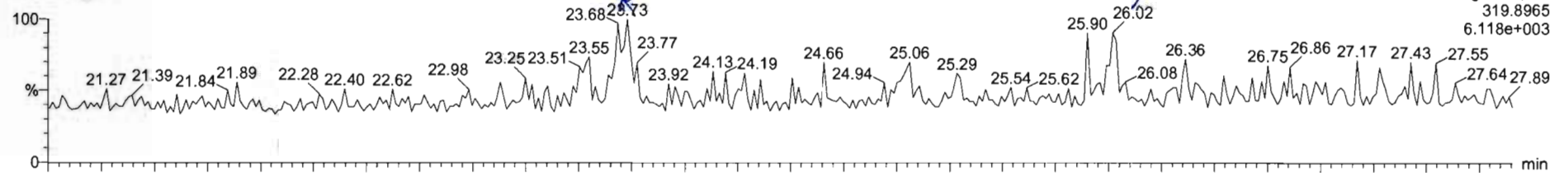
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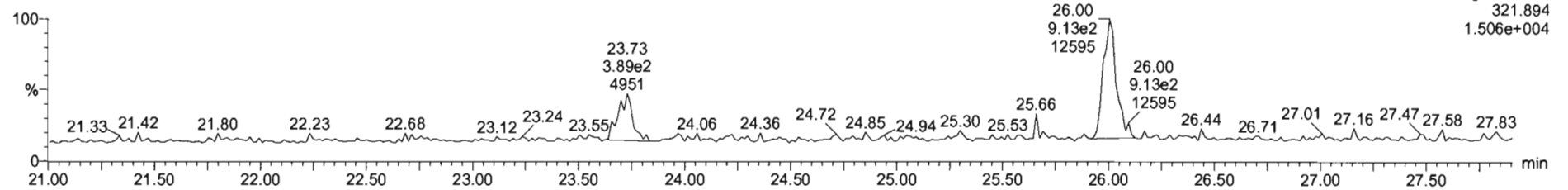
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**2,3,7,8-TCDD**

200501R2\_11

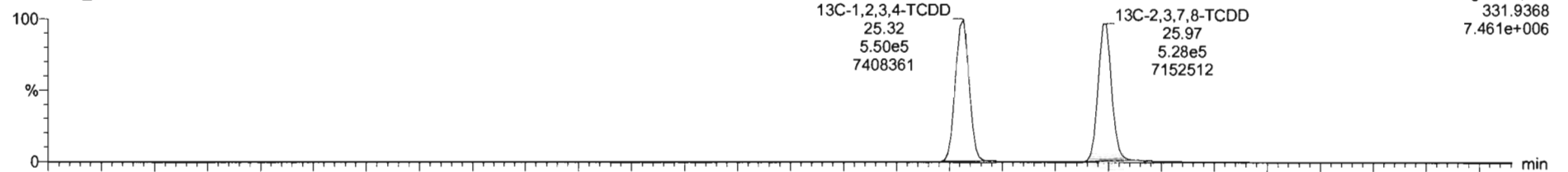


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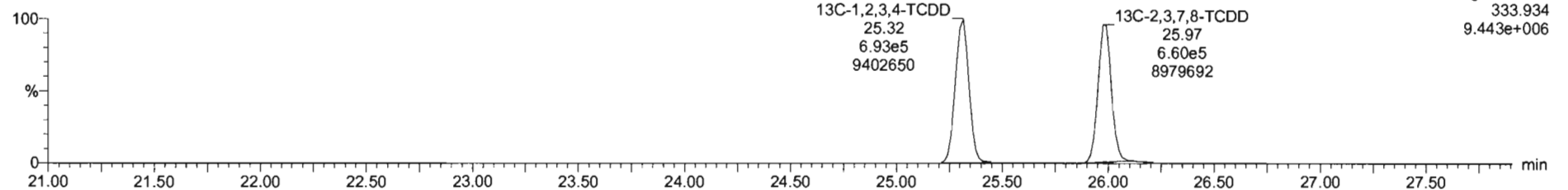


**13C-2,3,7,8-TCDD**

200501R2\_11



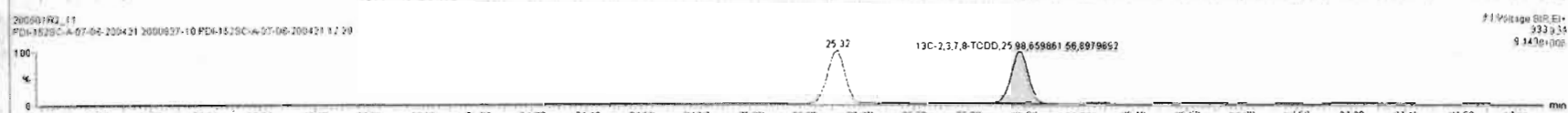
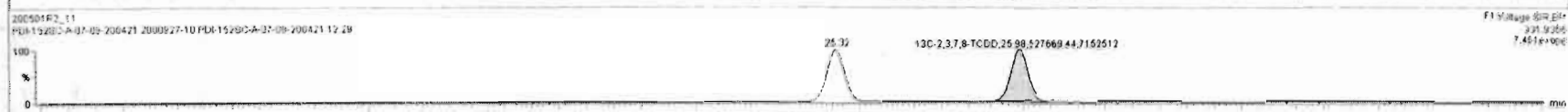
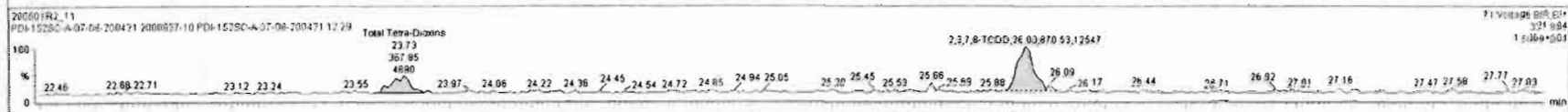
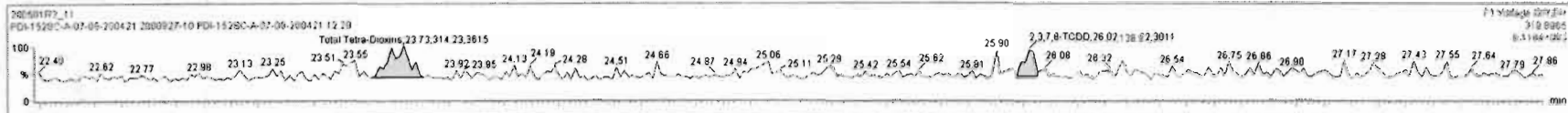
200501R2\_11



200501R2\_11 - 2000927-10 PDI-152SC-A-07-08-200421 12.29 - PDI-152SC-A-07-08-200421

#	Name	Resp	RA	nV	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HxCDF	7.27e5	0.44	NO	0.77	10.057	36.90	1.086	142	71.4	0.433	
33	13C-1,2,3,4,7,8,9-HxCDF	4.38e5	0.43	NO	0.48	10.057	38.90	1.145	137	68.8	0.692	
34	13C-OCDF	8.34e5	0.87	NO	0.67	10.057	41.50	1.221	188	47.2	0.319	
35	13C-2,3,7,8-TCDD	5.13e5			1.10	10.057	26.00	1.027	74.8	94.0	0.0436	
36	13C-1,2,3,4-TCDD	1.24e6	0.79	NO	1.00	10.057	25.32	1.000	199	100	0.216	
37	13C-1,2,3,4-TCDF	1.90e6	0.79	NO	1.00	10.057	23.53	1.000	190	100	0.312	
38	13C-1,2,3,4,6,9-HxCDF	1.32e6	0.52	NO	1.00	10.057	33.90	1.000	169	100	0.640	
39	Total Tetra-Dioxins				0.95	10.057			0.121		0.0353	0.177
40	Total Penta-Dioxins				0.94	10.057					0.0291	

#	Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1	2,3,7,8-TCDD	26.02	1.309e2	8.705e2	0.16	YES	0.056442	0.00000
2	Total Tetra-Dioxins	23.73	3.142e2	3.679e2	0.65	NO	0.12056	0.12056



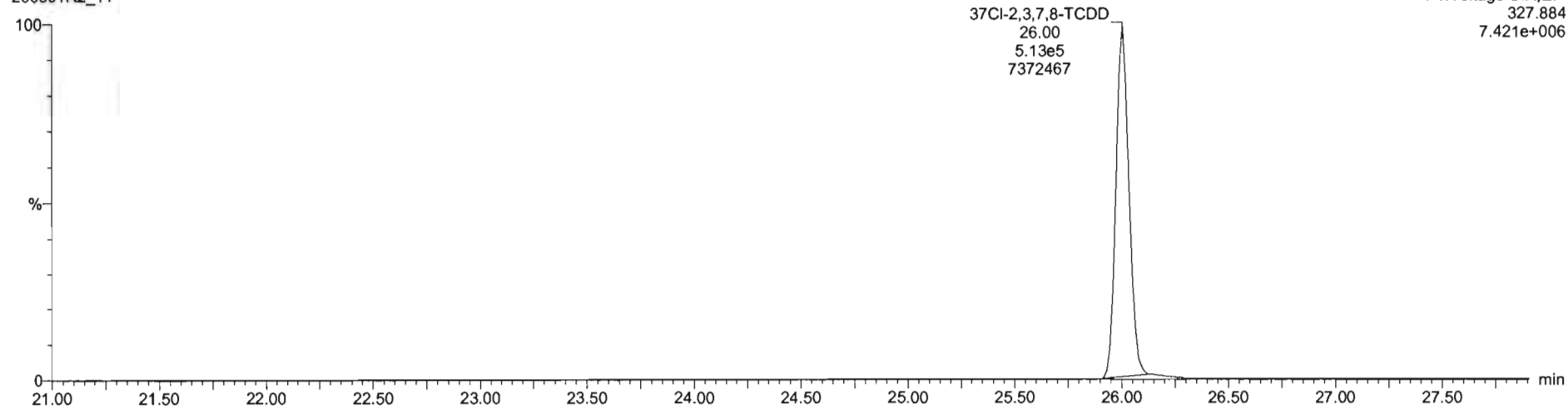
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Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421

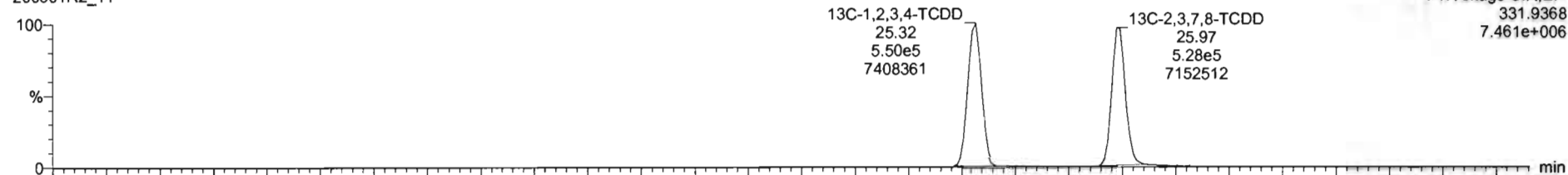
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200501R2\_11

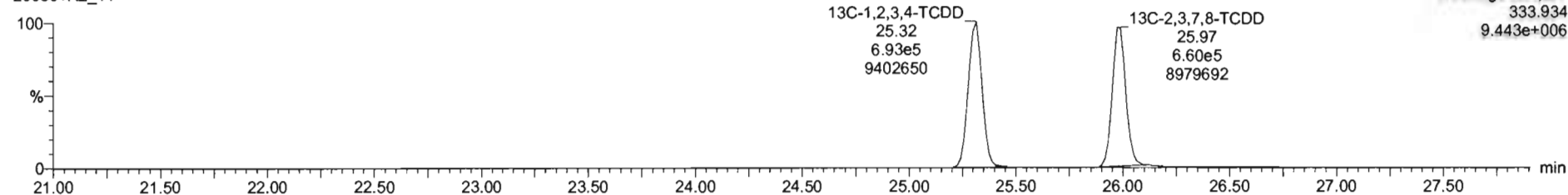


**13C-1,2,3,4-TCDD**

200501R2\_11



200501R2\_11



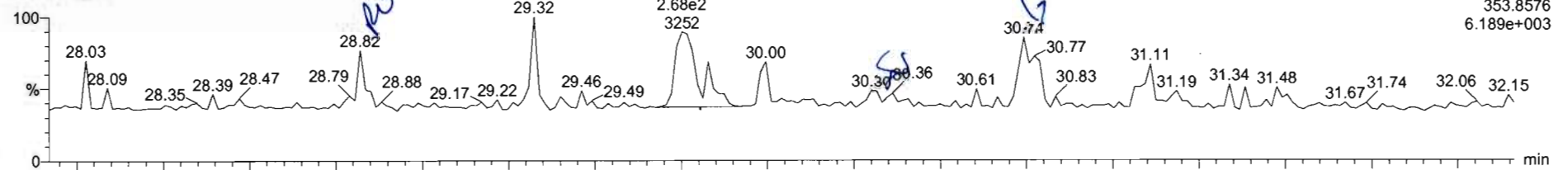
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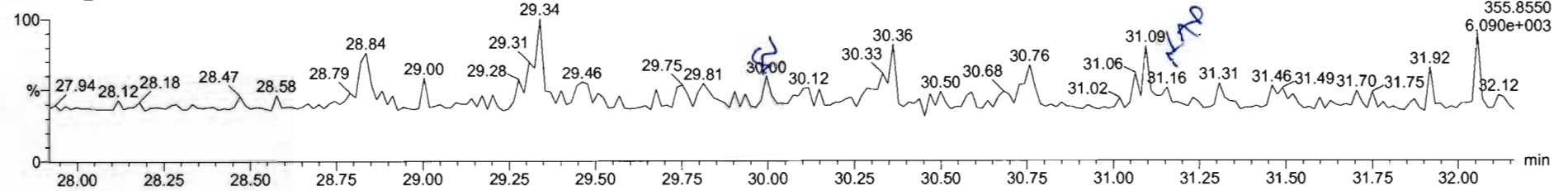
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**1,2,3,7,8-PeCDD**

200501R2\_11

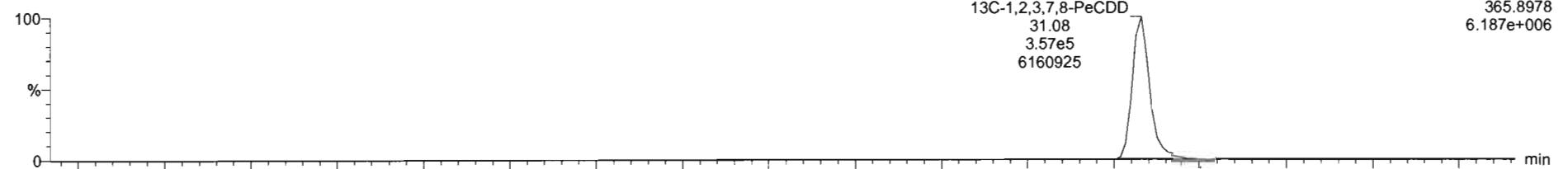


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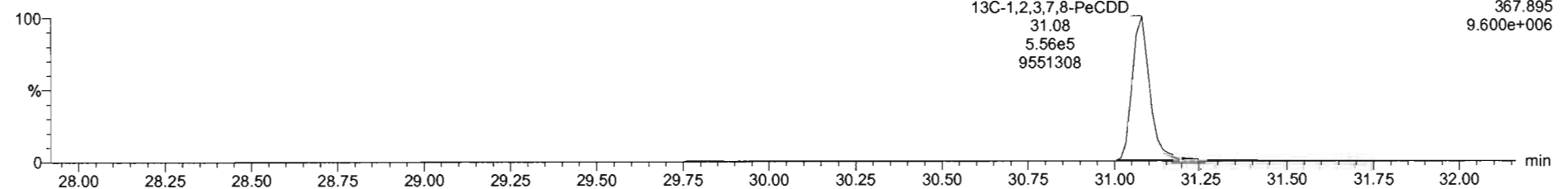


**13C-1,2,3,7,8-PeCDD**

200501R2\_11

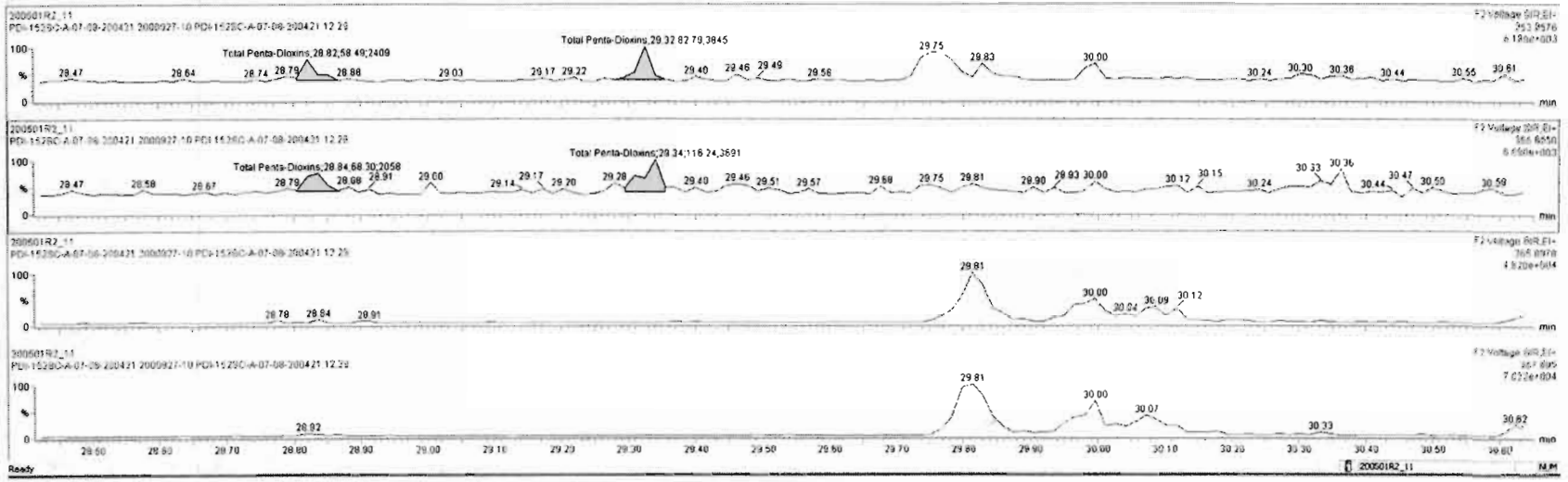


200501R2\_11



N	Name	Retain	RA	rvy	RRF	intAct	RT	RR1	Conc	%Rec	Dt	EMPC
25	13C-2,3,7,8-TCDF	1.55e6	0.77	NO	1.03	10.057	25.03	0.989	161	90.7	0.202	
26	13C-1,2,3,7,8-PeCDF	1.48e6	1.89	NO	0.85	10.057	29.77	1.176	183	92.1	0.524	
27	13C-2,3,4,7,8-PeCDF	1.35e6	1.58	NO	0.91	10.057	30.76	1.215	177	99.1	0.544	
28	13C-1,2,3,4,7,8-HxCDF	1.02e6	0.52	NO	1.00	10.057	33.60	0.989	153	76.7	0.537	
29	13C-1,2,3,6,7,8-HxCDF	1.15e6	0.52	NO	1.14	10.057	33.72	0.992	153	76.7	0.475	
30	13C-2,3,4,6,7,8-HxCDF	9.37e5	0.51	NO	1.02	10.057	34.28	1.009	138	69.3	0.526	
31	13C-1,2,3,7,8,9-HxCDF	7.97e5	0.51	NO	0.84	10.057	35.17	1.035	142	71.4	0.539	
32	13C-1,2,3,4,8,9-HxCDF	7.27e5	0.44	NO	0.77	10.057	36.90	1.086	142	71.4	0.433	
33	13C-1,2,3,4,7,8,9-HxCDF	4.36e5	0.43	NO	0.46	10.057	38.90	1.145	137	68.8	0.692	

N	Name	RT	int Resp	m2 Resp	RA	rvy	EMPC	Conc
1	Total Penta-Dioxins	28.62	5.849e1	6.830e1	0.86	YES	0.025722	0.00000
2	Total Penta-Cloxis	29.32	8.279e1	1.162e2	0.71	NO	0.045985	0.045985



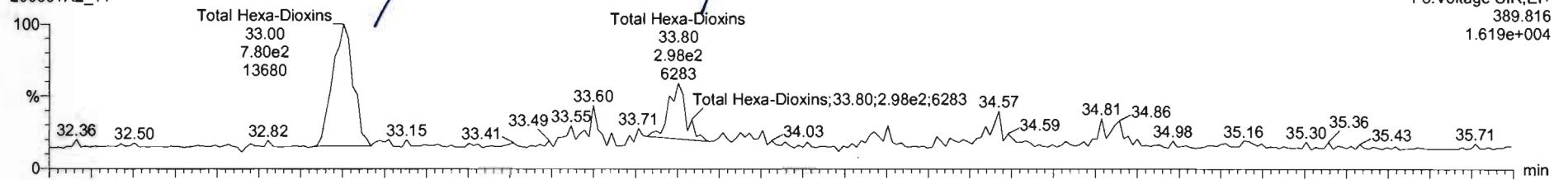
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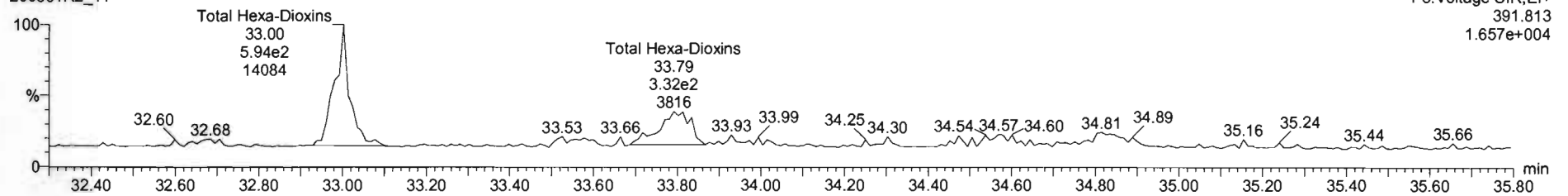
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**1,2,3,4,7,8-HxCDD**

200501R2\_11

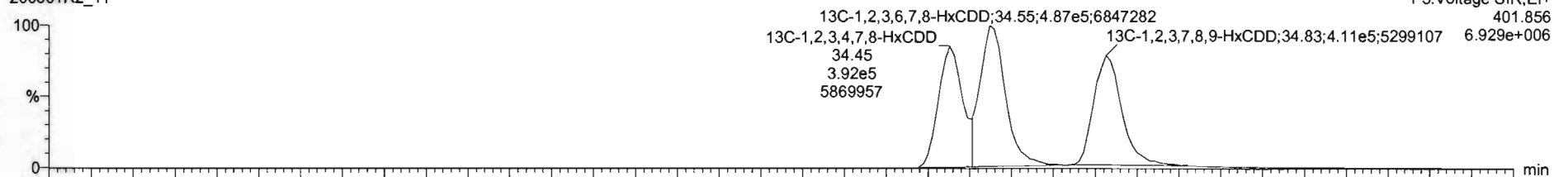


200501R2\_11

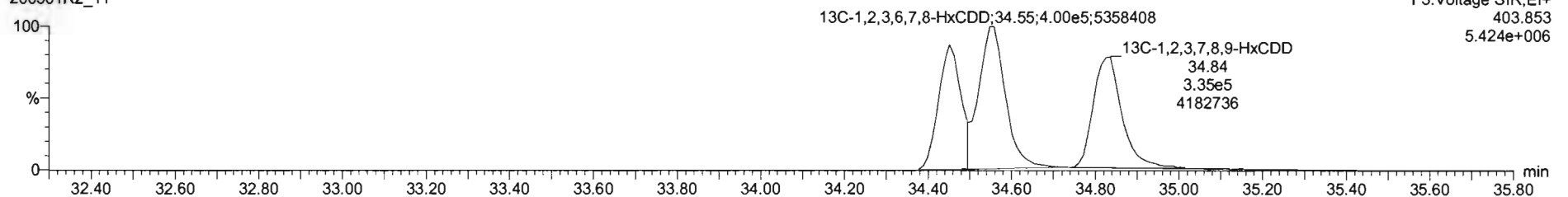


**13C-1,2,3,4,7,8-HxCDD**

200501R2\_11



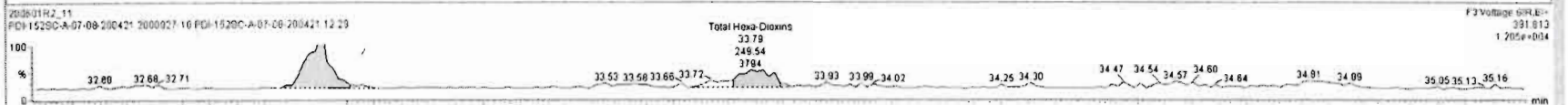
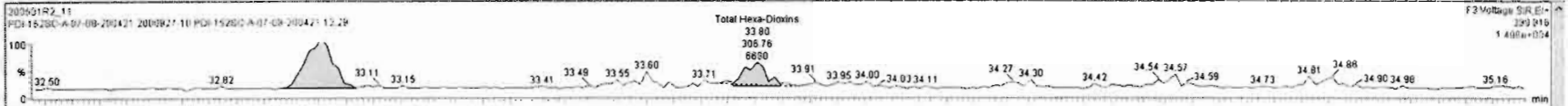
200501R2\_11



200501R2\_11 - 2000927-10 PDI-1529C-A-07-08-200421 12 29 - PDI-1529C-A-07-08-200421

Name	Resp	RA	n1	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.91	10.057			0.536	0.0991	0.536	
42 Total Hepta-Dioxins				0.90	10.057			2.35	0.191	2.35	
43 Total Tetra-Furans				0.79	10.057				0.0183		
44 1st Func. Penta-Furans				0.91	10.057			0.127	0.0189	0.127	
45 Total Penta-Furans				0.91	10.057				0.0333		
46 Total Hexa-Furans				0.92	10.057				0.0401		
47 Total Hepta-Furans				0.87	10.057			0.000	0.0439	0.193	
48 PEK1											
49 PEK2											

Name	RT	m1 Resp	n2 Resp	RA	n1	EMPC	Conc.
1 Total Hexa-Dioxins	33.00	7.807e2	5.829e2	1.33	NO	0.37890	0.37890
2 Total Hexa-Dioxins	33.00	3.068e2	2.456e2	1.23	NO	0.15694	0.15694



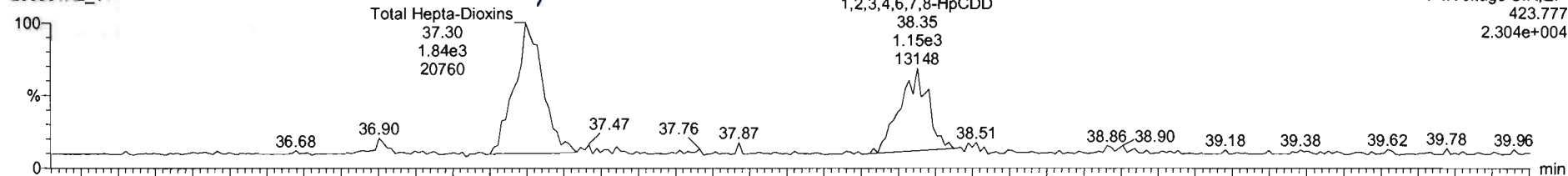
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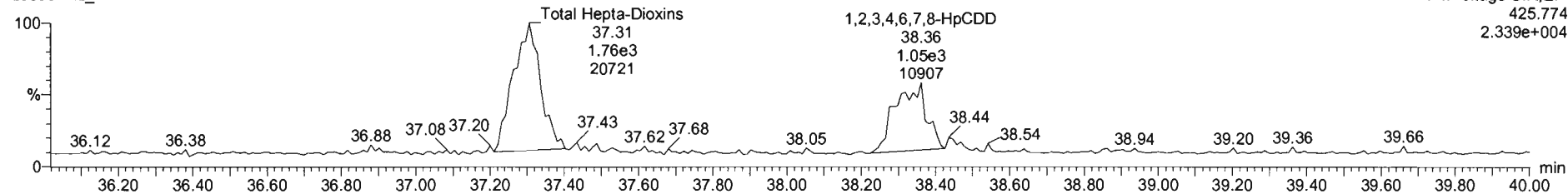
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1,2,3,4,6,7,8-HpCDD

200501R2\_11

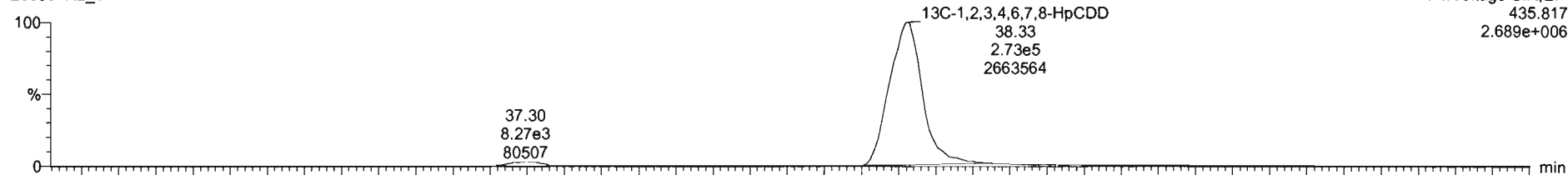


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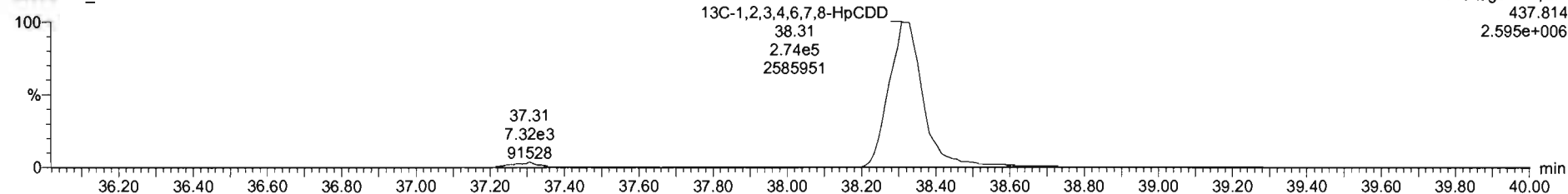


13C-1,2,3,4,6,7,8-HpCDD

200501R2\_11



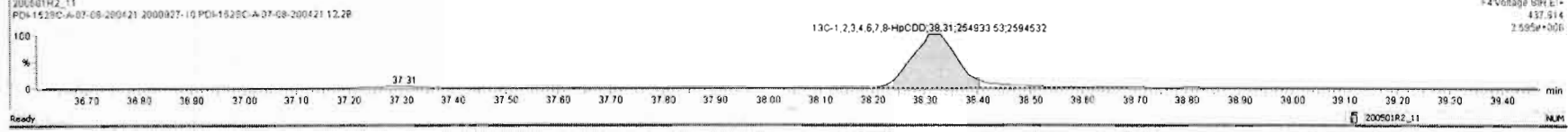
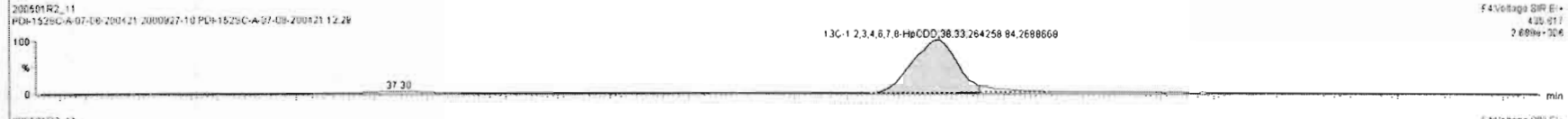
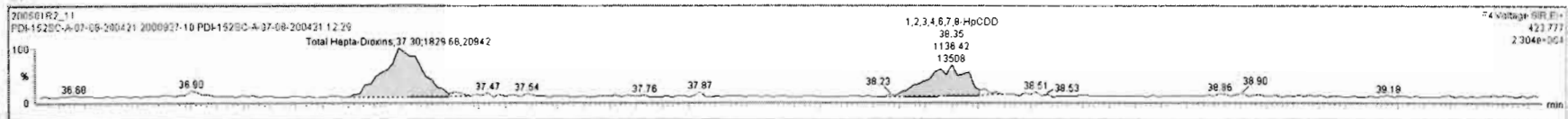
200501R2\_11





Name	Resp	RA	n/y	PRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
35 13C-2,3,7,8-TCDD	5.13e5			1.10	10.057	26.00	1.027	74.8	94.0	0.0438	
36 13C-1,2,3,4-TCDD	1.24e6	0.79	NO	1.00	10.057	25.32	1.000	159	100	0.218	
37 13C-1,2,3,4-TCDF	1.90e6	0.79	NO	1.00	10.057	23.53	1.000	199	100	0.312	
38 13C-1,2,3,4,6,8-HxCDF	1.32e6	0.52	NO	1.00	10.057	33.90	1.000	199	100	0.540	
39 Total Tetra-Dioxins				0.95	10.057			0.121		0.0353	0.177
40 Total Penta-Dioxins				0.94	10.057			0.0460		0.0251	0.0717
41 Total Hexa-Dioxins				0.91	10.057			0.536		0.0991	0.536
42 Total Hepta-Dioxins				0.90	10.057			2.51		0.193	2.51
43 Total Tetra-Furans				0.79	10.057					0.0183	

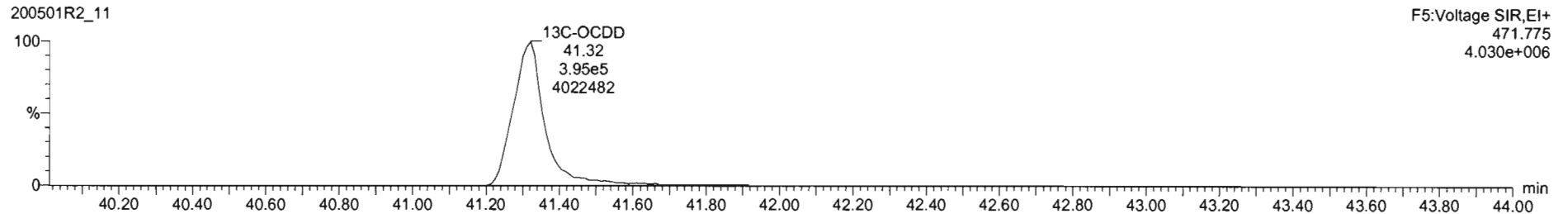
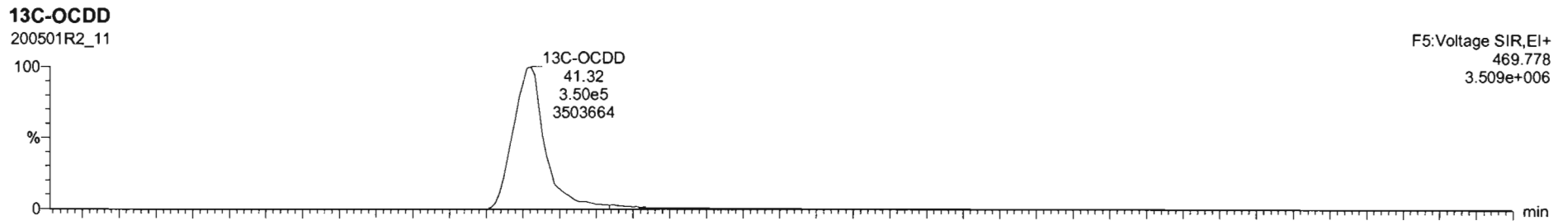
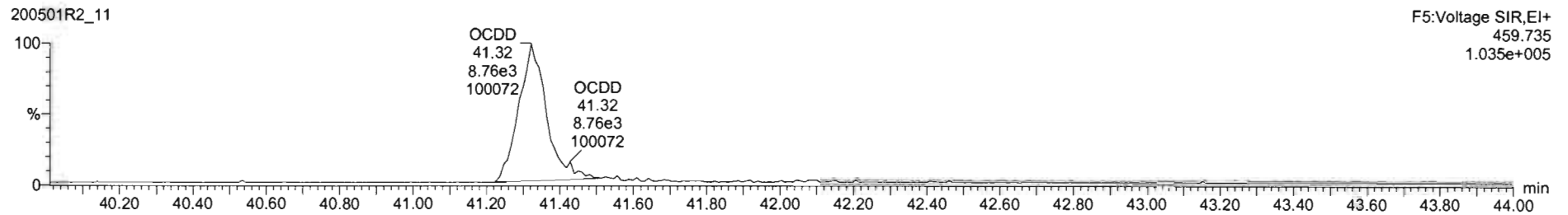
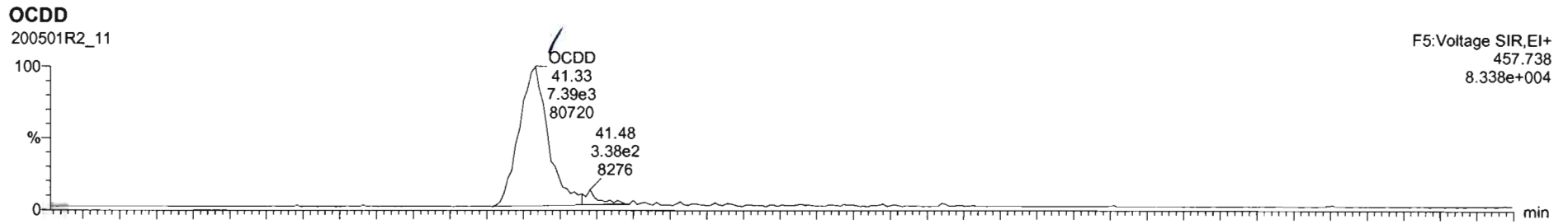
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1 Total Hepta-Dioxins	37.30	1.630e3	1.792e3	1.02	NO	1.5448	1.5448
2 1,2,3,4,6,7,8-HpCDD	38.35	1.136e3	1.138e3	1.00	NO	0.97014	0.97014



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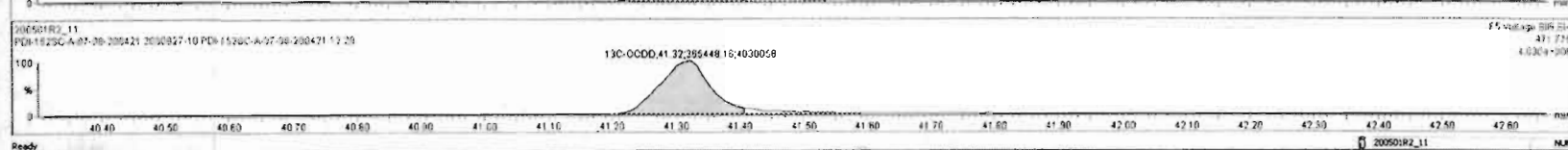
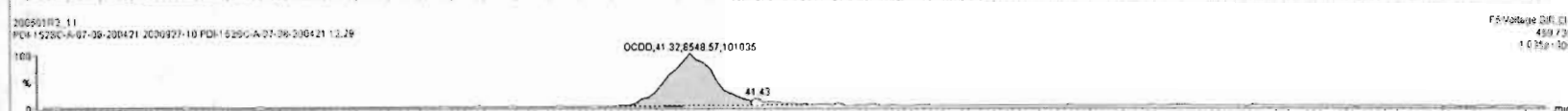
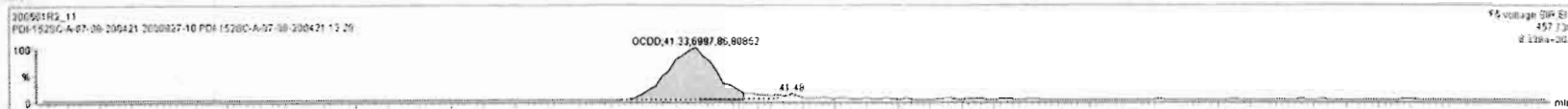
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Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421



#	Name	Resp	RA	nV	RRF	wt%	RI	IRI	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.95	10.057					0.0566	
2	1,2,3,7,8-PeCDD			NO	0.94	10.057					0.0547	
3	1,2,3,4,7,8-HxCDD			NO	1.06	10.057					0.0599	
4	1,2,3,6,7,8-HxCDD			NO	0.91	10.057					0.0553	
5	1,2,3,7,8,9-HxCDD			NO	0.91	10.057					0.111	
6	1,2,3,4,6,7,8-HxCDD	2.20e3	1.10	NO	0.90	10.057	38.35	1.001	0.892		0.191	0.892
7	OCDD	1.65e4	0.82	NO	0.83	10.057	41.33	1.000	9.56		0.274	9.56
8	2,3,7,8-TCDF			NO	0.79	10.057					0.0415	
9	1,2,3,7,8-PeCDF			NO	0.91	10.057					0.0461	

#	Name	RI	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1								

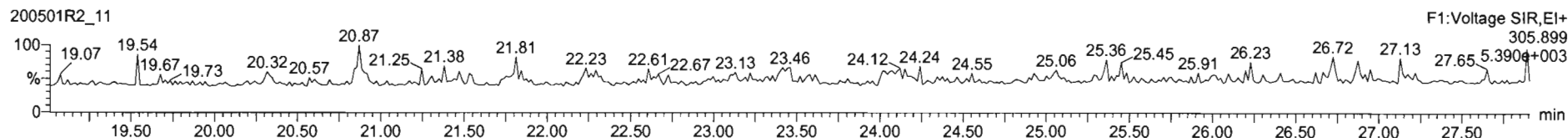
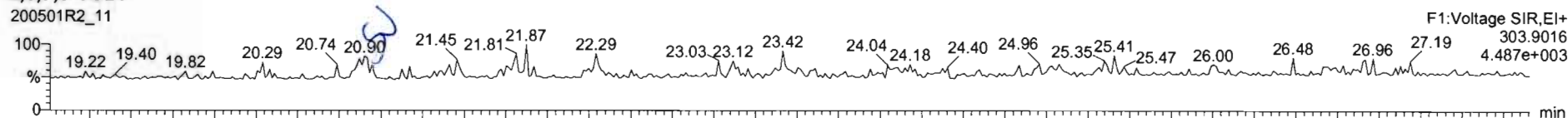


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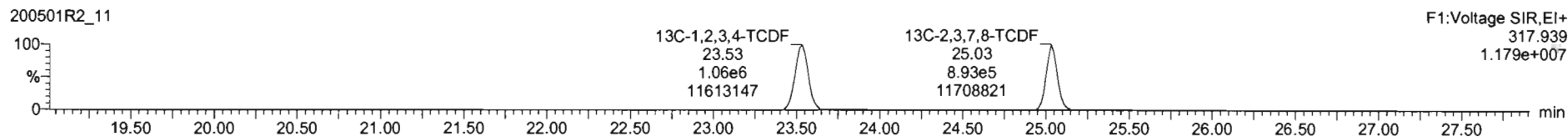
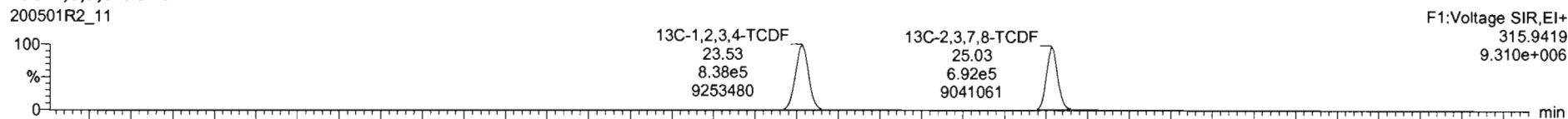
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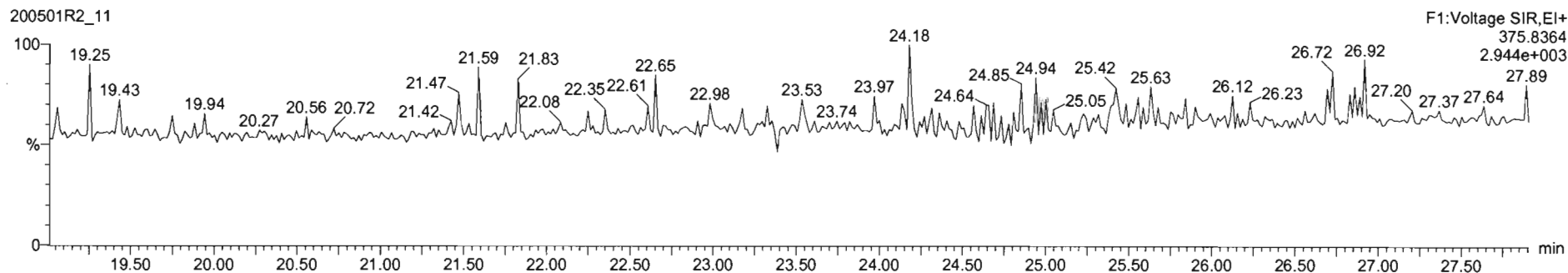
**2,3,7,8-TCDF**



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



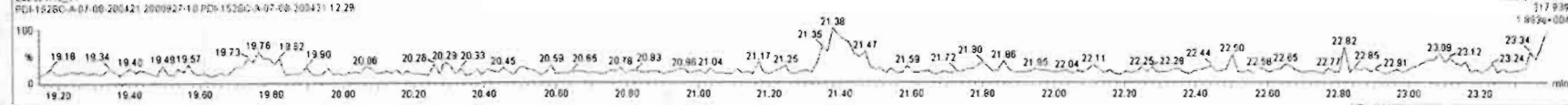
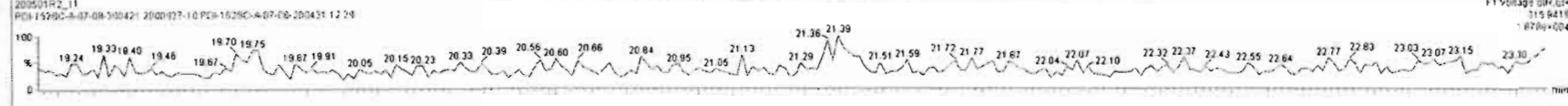
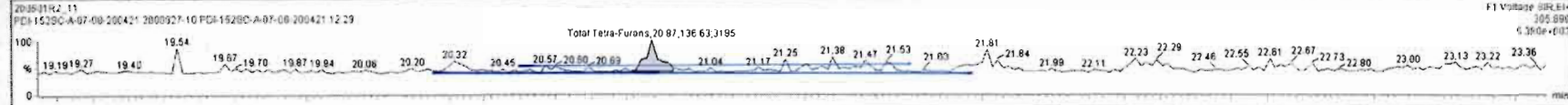
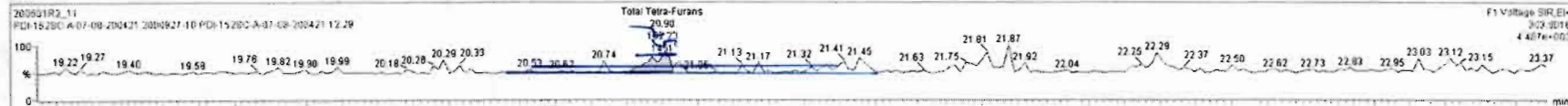
**DPE1**



200501R2\_11 - 2000927-10.PDI-152SC-A-07-08-200421 12.29 - PDI-152SC-A-07-08-200421

Name	Resp	RA	n/y	RRF	wtMol	RT	PRT	Conc.	%Rec	DL	EMPC
35 37Cl-2,3,7,8-TCDD	5.13e5	1.10	10.057	20.00	1.027	74.8	58.0	0.0430			
36 13C-1,2,3,4-TCDD	1.24e6	0.79	NO	1.00	10.057	25.32	1.000	199	100	0.218	
37 13C-1,2,3,4-TCDF	1.90e6	0.75	NO	1.00	10.057	23.53	1.000	199	100	0.312	
38 13C-1,2,3,4,6,9-HxCDF	1.32e6	0.52	NO	1.00	10.057	33.98	1.000	199	100	0.540	
39 Total Tetra-Dioxins				0.95	10.057			0.121		0.0353	0.177
40 Total Penta-Dioxins				0.94	10.057			0.0460		0.0251	0.0717
41 Total Hexa-Dioxins				0.91	10.057			0.536		0.0991	0.536
42 Total hepta Dioxins				0.90	10.057			2.51		0.193	2.51
43 Total Tetra-Furans				0.79	10.057			0.0381		0.0183	0.0381

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.90	1.022e2	1.366e2	0.75	NO	0.038074	0.038074



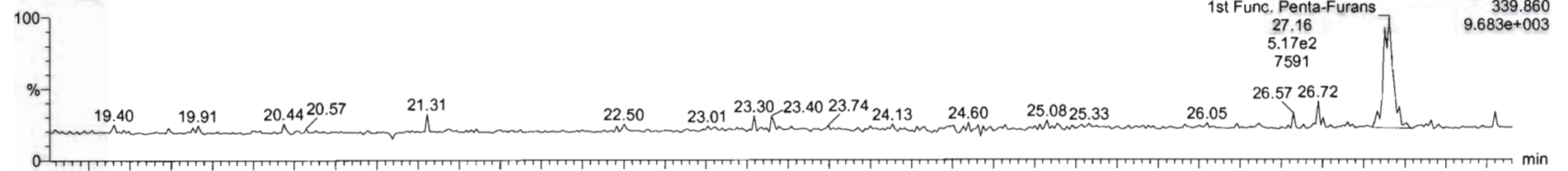
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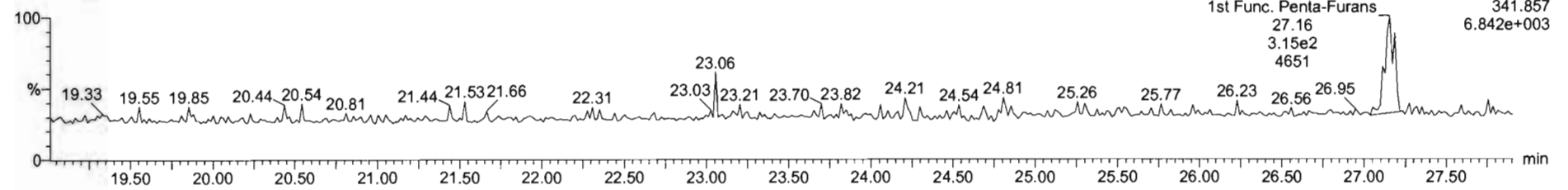
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1st Func. Penta-Furans

200501R2\_11

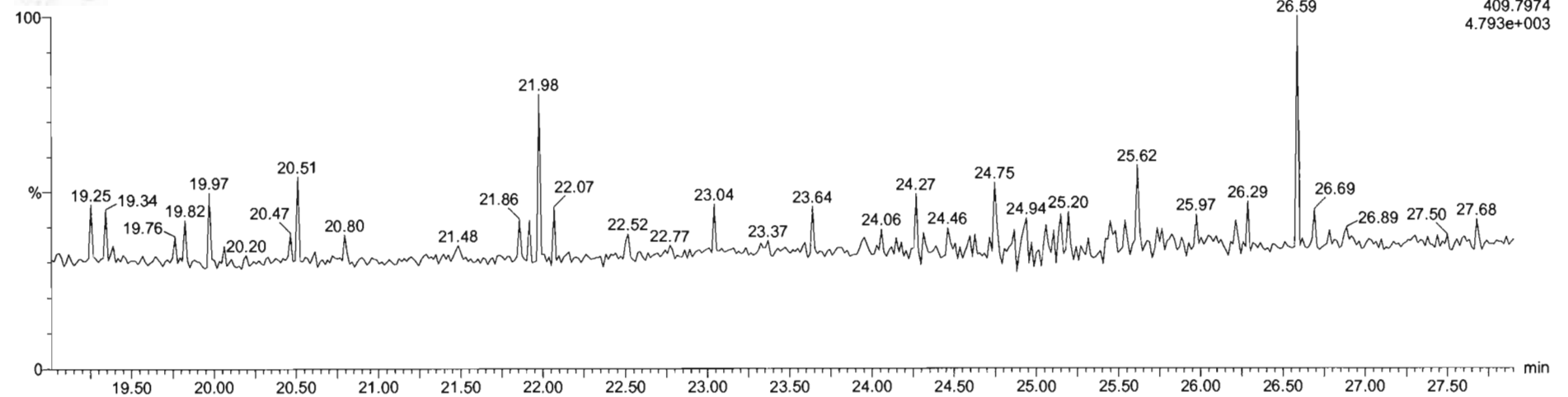


200501R2\_11



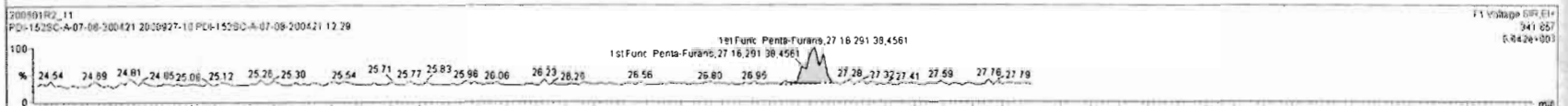
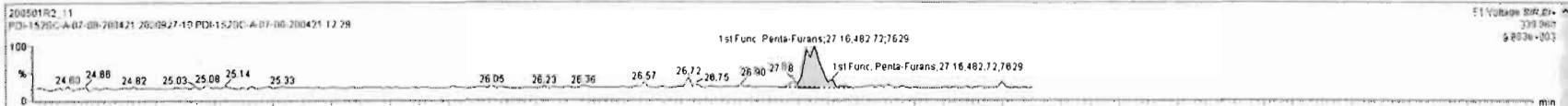
DPE6

200501R2\_11



Name	Resp	RA	n/y	RRT	wt/mol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.91	10.057			0.119		0.0189	0.119
45 Total Penta-Furans				0.91	10.057					0.0333	
48 Total Hexa-Furans				0.92	10.057					0.0401	
47 Total Hepta-Furans				0.87	10.057			0.000		0.0439	0.193
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1st Func. Penta-Furans	27.16	4.827e2	2.914e2	1.66	NO	0.11856	0.11856

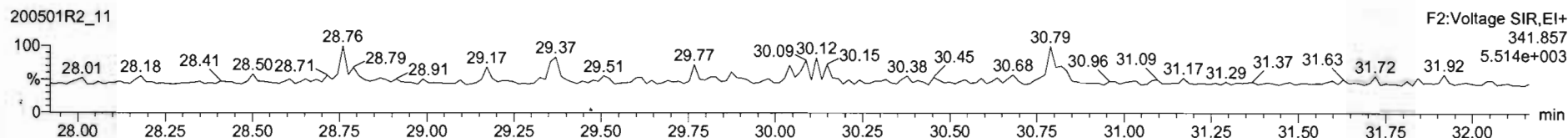
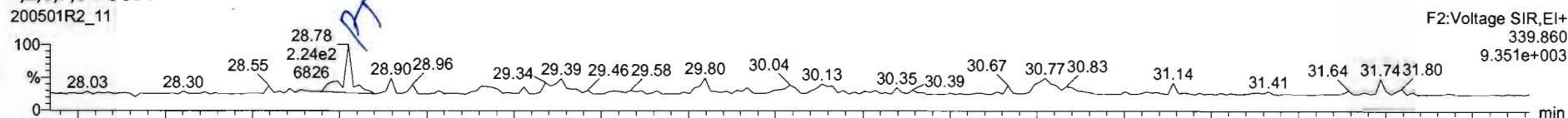


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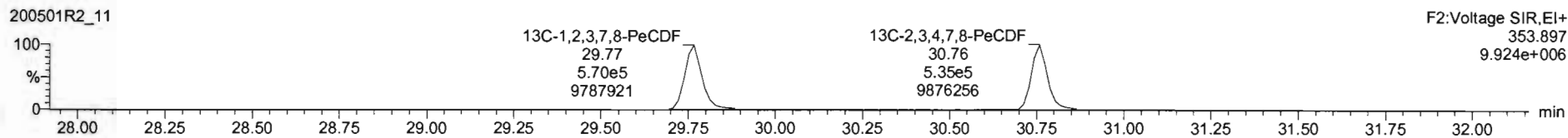
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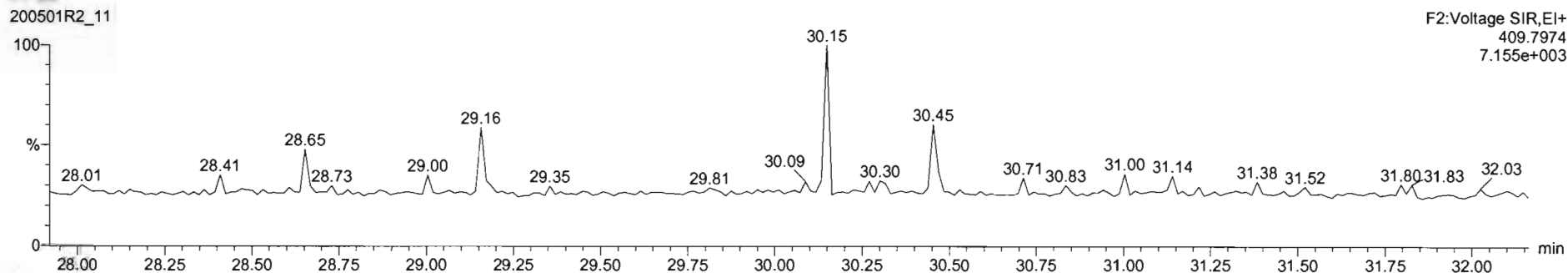
1,2,3,7,8-PeCDF



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



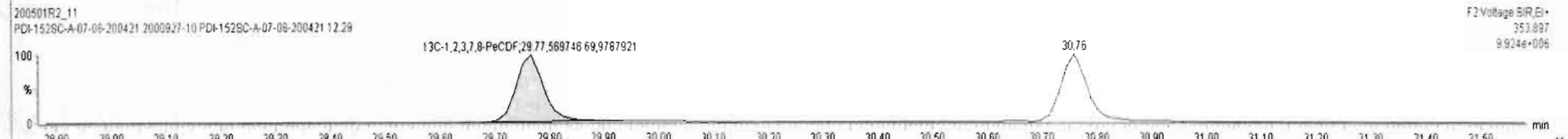
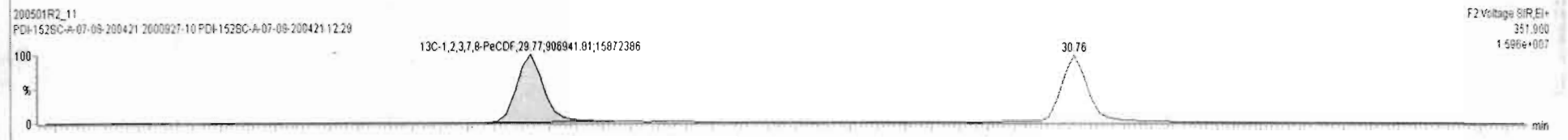
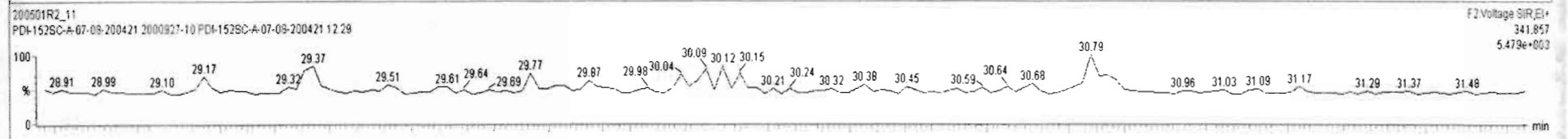
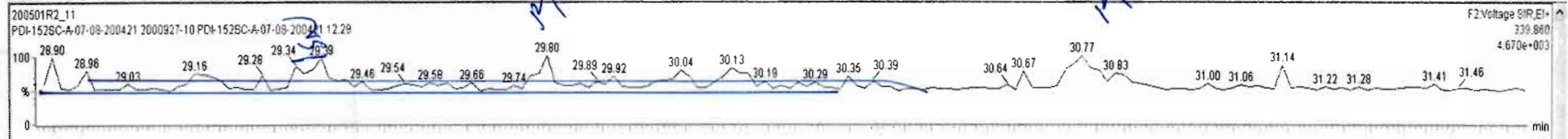
DPE2





Name	Resp	RA	nly	RRF	wtVol	RT	PRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.91	10.057			0.119		0.0189	0.119
45 Total Penta-Furans				0.91	10.057					0.0333	
46 Total Hexa-Furans				0.92	10.057					0.0401	
47 Total Hepta-Furans				0.87	10.057			0.000		0.0439	0.193
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

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

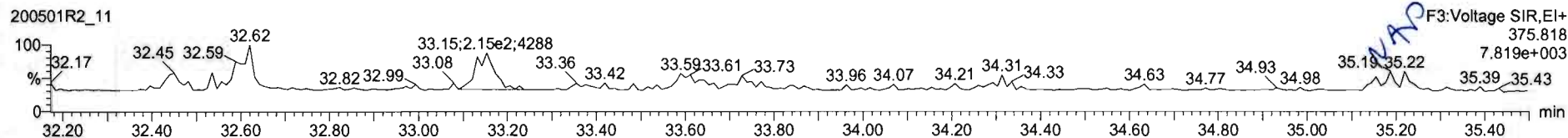
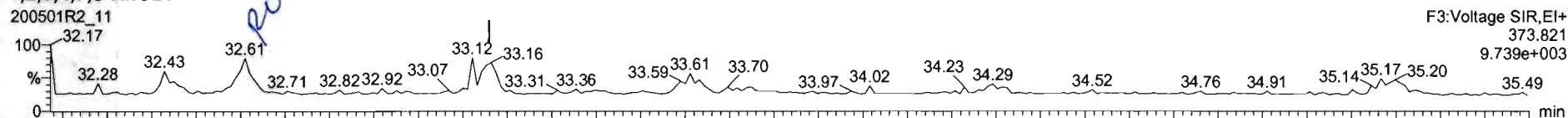


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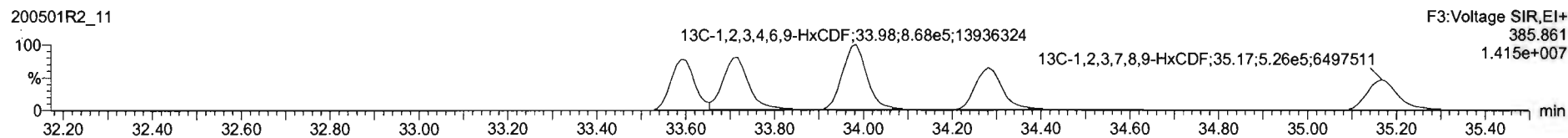
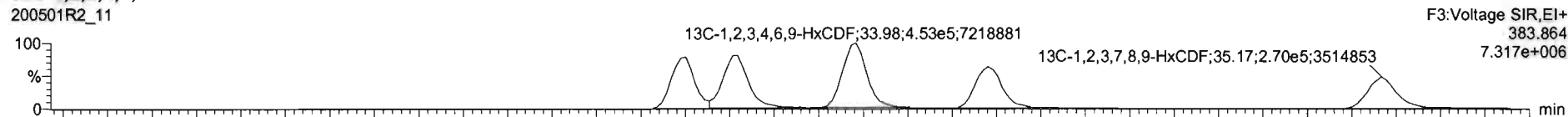
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Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421

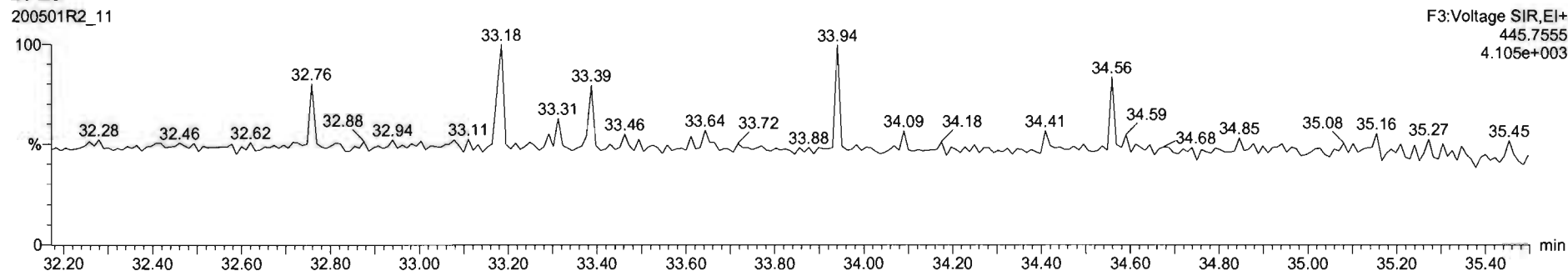
1,2,3,4,7,8-HxCDF



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



DPE3

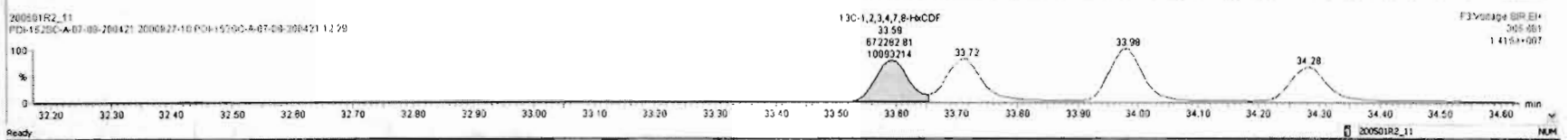
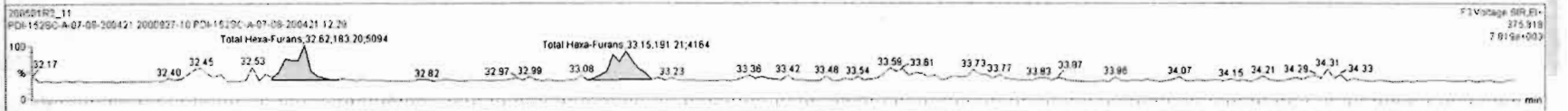
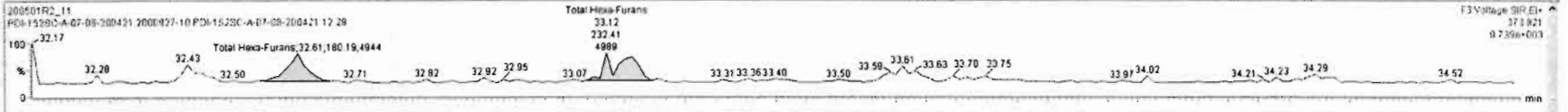


200501R2\_11 - 2000927-10 PDI-152SC-A-07-08-200421 12.29 - PDI-152SC-A-07-08-200421

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	CL	EMPC
44 1st Furc. Penta-Furans				0.91	10.057			0.119		0.0199	0.119
45 Total Penta-Furans				0.91	10.057					0.0333	
46 Total Hexa-Furans				0.92	10.057			0.0936		0.0401	0.166
47 Total Hepta-Furans				0.87	10.057			0.030		0.0439	0.193
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.81	1.002e2	1.832e2	0.98	YES	0.071956	0.00000
2 Total Hexa-Furans	33.12	2.324e2	1.912e2	1.22	NO	0.092649	0.093648

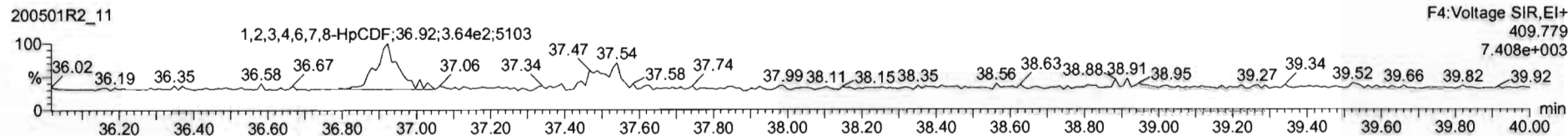
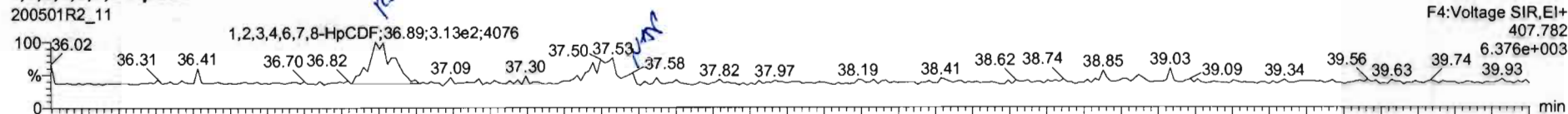


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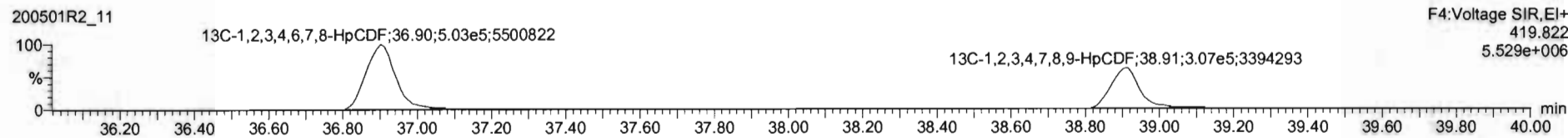
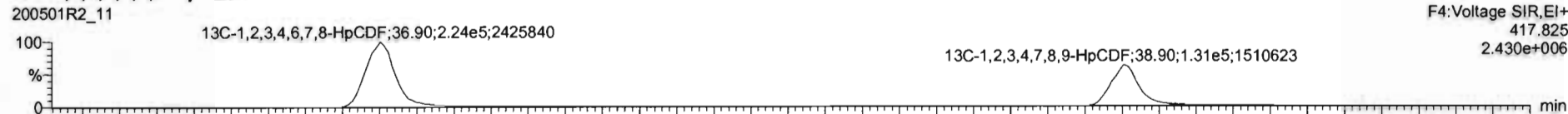
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421

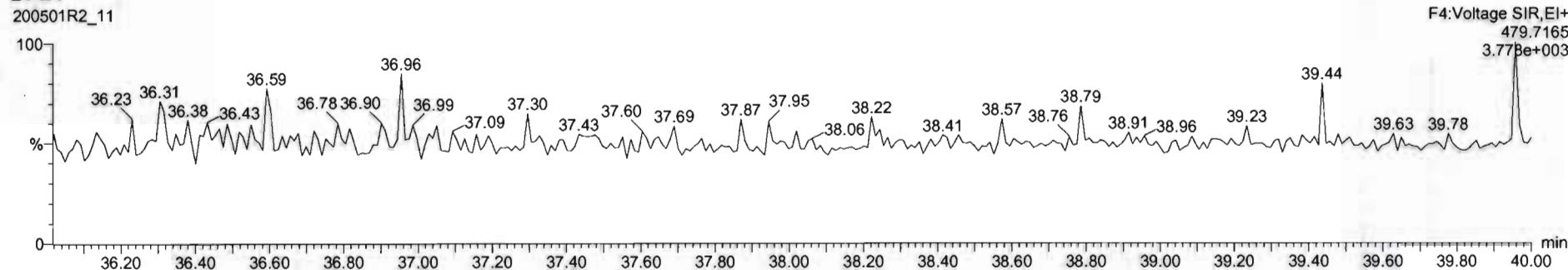
1,2,3,4,6,7,8-HpCDF



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

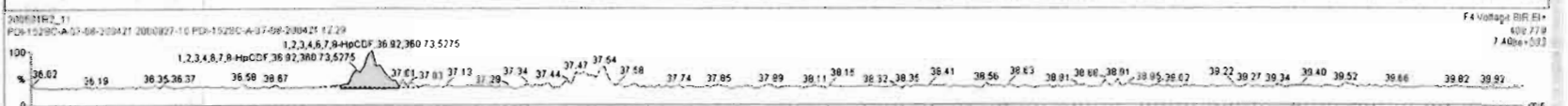
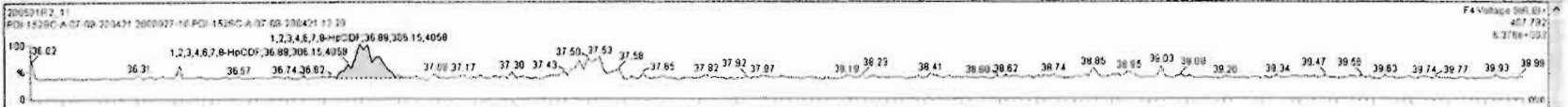


DPE4



#	Name	Resp	RA	n/y	RRF	ndVor	RT	RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.91	10.057			0.119		0.0169	0.119
45	Total Penta-Furans				0.91	10.057					0.0233	
46	Total Hexa-Furans				0.92	10.057			0.2636		0.0401	0.186
47	Total Hepta-Furans				0.87	10.057			0.0500		0.0439	0.109
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											

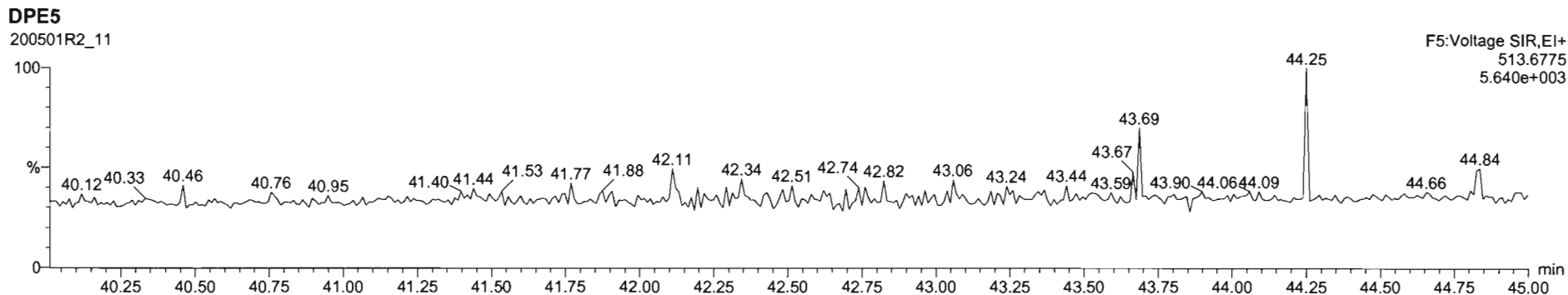
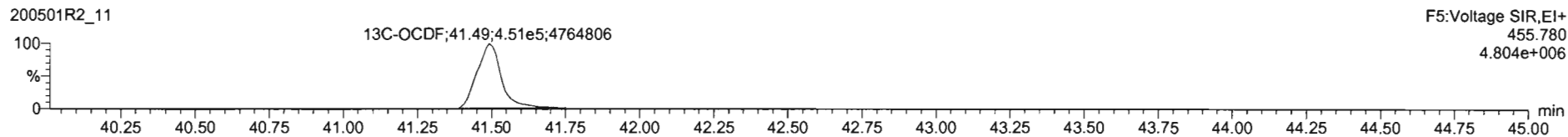
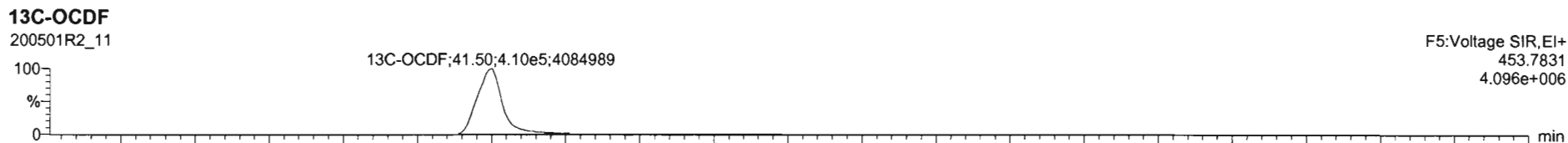
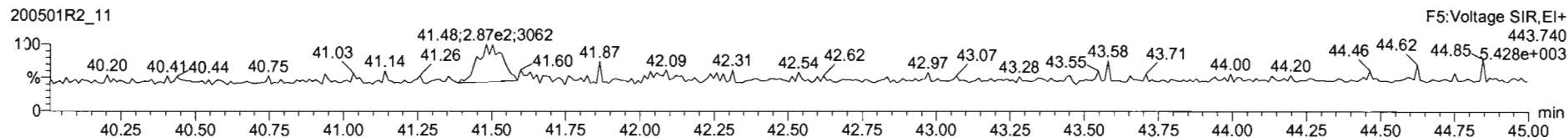
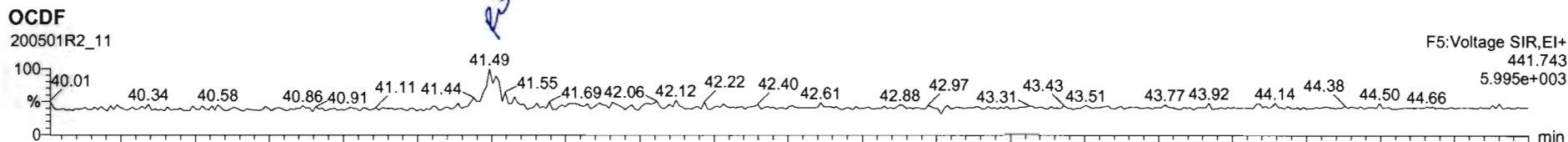
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.89	3.061e2	3.607e2	0.85	YES	0.18955	0.00000



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Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

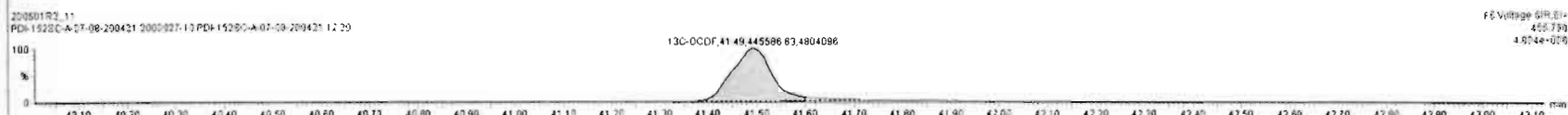
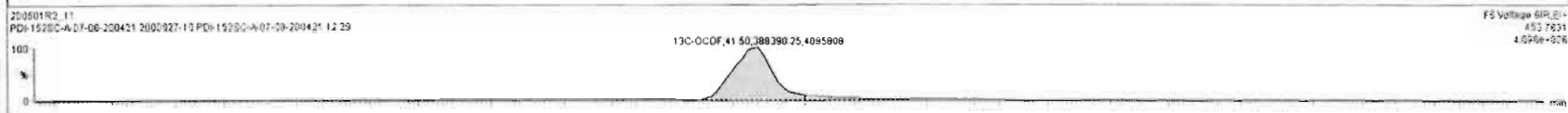
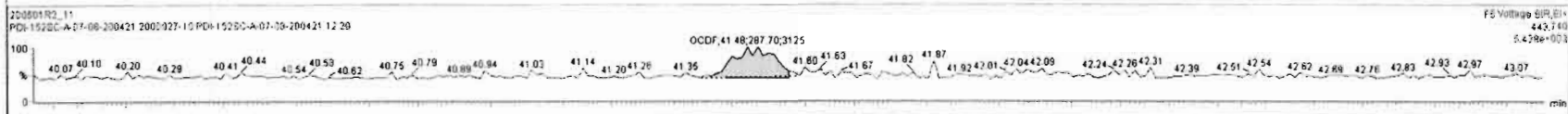
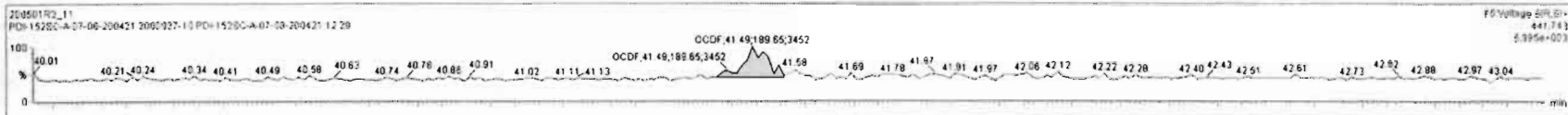
Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421



200501R2\_11 - 2000927-10 PDI-152SC-A-07-08-200421 12 29 - PDI-152SC-A-07-08-200421

Name	Resp	RA	n/y	RRF	wt/mol	RT	RRT	Conc	%Rec	DL	EMPC
10	2,3,4,7,8-PeCDF		NO	0.97	10.057					0.0438	
11	1,2,3,4,7,8-PeCDF		NO	0.88	10.057					0.0579	
12	1,2,3,6,7,8-PeCDF		NO	0.07	10.057					0.0588	
13	2,3,4,6,7,8-PeCDF		NO	0.92	10.057					0.0695	
14	1,2,3,7,8,9-PeCDF		NO	0.86	10.057					0.0553	
15	1,2,3,4,6,7,8-PeCDF	8.77e2	0.86	YES	0.87	10.057	36.89	1.000	0.213	0.0741	0.193
16	1,2,3,4,7,8,9-PeCDF		NO	1.01	10.057					0.0997	
17	OCDF	4.77e2	0.86	YES	0.86	10.057	41.49	1.000	0.284	0.171	0.239
18	13C-2,3,7,8-TCDF	1.19e6	0.80	NO	1.16	10.057	25.98	1.026	164	02.4	0.186

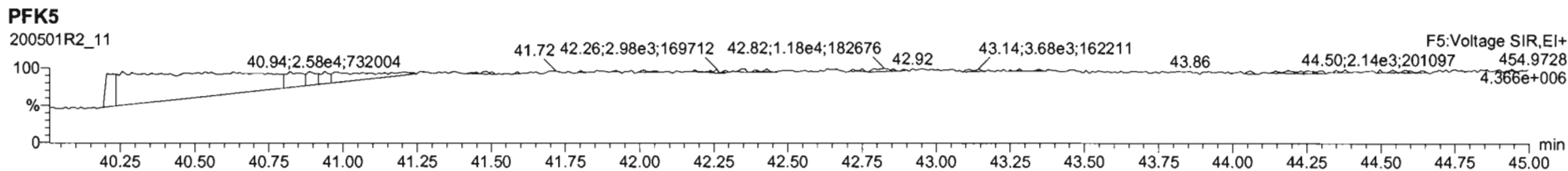
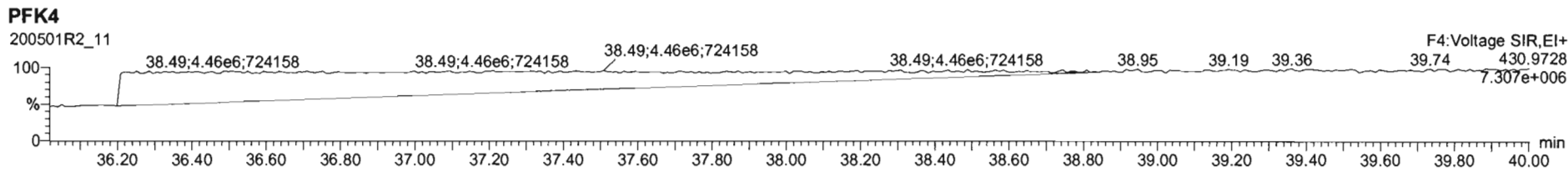
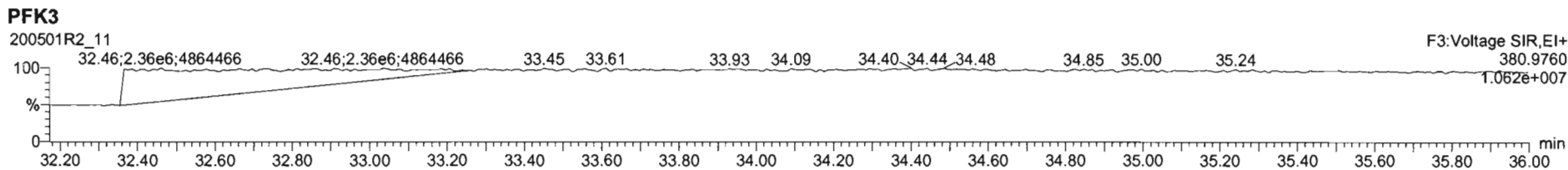
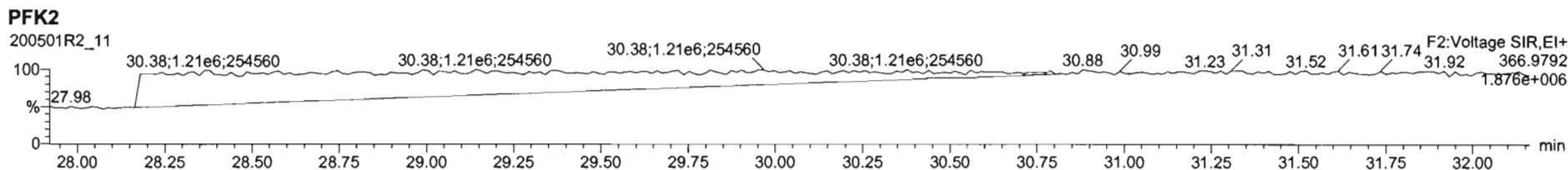
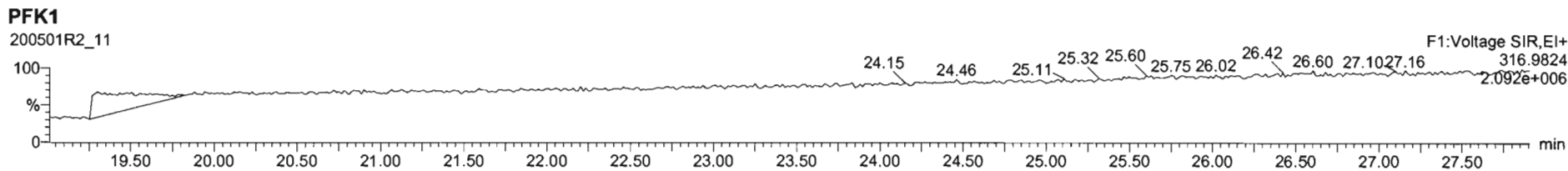
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_11, Date: 01-May-2020, Time: 23:05:13, ID: 2000927-10 PDI-152SC-A-07-08-200421 12.29, Description: PDI-152SC-A-07-08-200421





Dataset: U:\VG12.PRO\Results\200501R2\200501R2-12.qld

Last Altered: Saturday, May 02, 2020 12:25:06 PM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 12:25:36 PM Pacific Daylight Time

GRB 05/02/2020

C7 05/05/2020

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

Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.100	26.006		1.001				0.0911	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.100	31.101		1.001				0.109	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.100	34.462		1.000				0.118	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.100	34.559		1.000				0.120	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.100	34.835		1.000				0.134	
6	6 1,2,3,4,6,7,8-HpCDD	3.70e3	1.11	NO	0.898	10.100	38.330	38.35	1.000	1.001	1.7351		0.189	1.74
7	7 OCDD	2.15e4	1.00	NO	0.933	10.100	41.322	41.33	1.000	1.000	14.645		0.293	14.6
8	8 2,3,7,8-TCDF			NO	0.787	10.100	25.042		1.001				0.0684	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.100	29.788		1.001				0.0538	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.100	30.790		1.001				0.0488	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.100	33.590		1.000				0.0580	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.100	33.717		1.000				0.0551	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.100	34.316		1.001				0.0638	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.100	35.166		1.000				0.0943	
15	15 1,2,3,4,6,7,8-HpCDF	8.30e2	1.01	NO	0.871	10.100	36.939	36.91	1.001	1.000	0.31244		0.0899	0.312
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.100	38.915		1.000				0.127	
17	17 OCDF	4.18e2	1.02	NO	0.802	10.100	41.492	41.52	1.000	1.001	0.28657		0.134	0.287
18	18 13C-2,3,7,8-TCDD	8.05e5	0.76	NO	1.16	10.100	25.969	25.98	1.026	1.027	128.04	64.7	0.331	
19	19 13C-1,2,3,7,8-PeCDD	6.55e5	0.64	NO	0.847	10.100	31.049	31.08	1.227	1.228	142.76	72.1	0.294	
20	20 13C-1,2,3,4,7,8-HxCDD	5.03e5	1.29	NO	0.750	10.100	34.463	34.45	1.014	1.014	130.41	65.9	0.469	
21	21 13C-1,2,3,6,7,8-HxCDD	7.19e5	1.35	NO	0.963	10.100	34.575	34.56	1.017	1.017	144.98	73.2	0.365	
22	22 13C-1,2,3,7,8,9-HxCDD	6.74e5	1.35	NO	0.838	10.100	34.844	34.83	1.025	1.025	156.44	79.0	0.420	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.70e5	1.06	NO	0.641	10.100	38.331	38.32	1.128	1.128	142.22	71.8	0.466	
24	24 13C-OCDD	6.22e5	0.90	NO	0.586	10.100	41.321	41.32	1.216	1.216	206.19	52.1	0.393	
25	25 13C-2,3,7,8-TCDF	1.10e6	0.78	NO	1.03	10.100	25.030	25.02	0.989	0.989	126.36	63.8	0.378	
26	26 13C-1,2,3,7,8-PeCDF	1.00e6	1.60	NO	0.845	10.100	29.741	29.77	1.176	1.177	140.76	71.1	0.477	
27	27 13C-2,3,4,7,8-PeCDF	9.52e5	1.60	NO	0.814	10.100	30.731	30.76	1.215	1.216	138.41	69.9	0.495	
28	28 13C-1,2,3,4,7,8-HxCDF	7.61e5	0.51	NO	1.00	10.100	33.603	33.59	0.989	0.988	147.03	74.2	0.494	
29	29 13C-1,2,3,6,7,8-HxCDF	8.90e5	0.51	NO	1.14	10.100	33.726	33.71	0.992	0.992	152.05	76.8	0.436	
30	30 13C-2,3,4,6,7,8-HxCDF	7.85e5	0.52	NO	1.02	10.100	34.293	34.28	1.009	1.009	149.09	75.3	0.485	
31	31 13C-1,2,3,7,8,9-HxCDF	6.09e5	0.51	NO	0.845	10.100	35.184	35.17	1.035	1.035	140.03	70.7	0.587	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-12.qld

Last Altered: Saturday, May 02, 2020 12:25:06 PM Pacific Daylight Time

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Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

#	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	6.04e5	0.43	NO	0.771	10.100	36.913	36.90	1.086	1.086	152.12	76.8	0.516	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.57e5	0.41	NO	0.482	10.100	38.922	38.92	1.145	1.145	143.85	72.6	0.825	
34	34 13C-OCDF	7.20e5	0.85	NO	0.669	10.100	41.491	41.49	1.221	1.221	209.16	52.8	0.332	
35	35 37Cl-2,3,7,8-TCDD	3.40e5			1.10	10.100	25.999	25.99	1.028	1.027	57.140	72.1	0.0580	
36	36 13C-1,2,3,4-TCDD	1.07e6	0.80	NO	1.00	10.100	25.350	25.30	1.000	1.000	198.03	100	0.383	
37	37 13C-1,2,3,4-TCDF	1.67e6	0.79	NO	1.00	10.100	23.560	23.52	1.000	1.000	198.03	100	0.391	
38	38 13C-1,2,3,4,6,9-HxCDF	1.02e6	0.51	NO	1.00	10.100	34.000	33.98	1.000	1.000	198.03	100	0.496	
39	39 Total Tetra-Dioxins				0.947	10.100	24.620		0.000				0.0499	
40	40 Total Penta-Dioxins				0.942	10.100	29.960		0.000				0.0478	
41	41 Total Hexa-Dioxins				0.915	10.100	33.635		0.000		1.2036		0.130	1.20
42	42 Total Hepta-Dioxins				0.898	10.100	37.640		0.000		4.6360		0.189	4.64
43	43 Total Tetra-Furans				0.787	10.100	23.610		0.000		0.084576		0.0684	0.0846
44	44 1st Func. Penta-Furans				0.910	10.100	27.090		0.000		0.20199		0.0232	0.202
45	45 Total Penta-Furans				0.910	10.100	29.275		0.000				0.0293	
46	46 Total Hexa-Furans				0.922	10.100	33.555		0.000		0.24502		0.0632	0.245
47	47 Total Hepta-Furans				0.871	10.100	37.835		0.000		0.56932		0.111	0.569

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Dataset: U:\VG12.PRO\Results\200501R2\200501R2-12.qld

Last Altered: Saturday, May 02, 2020 12:25:06 PM Pacific Daylight Time

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

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

Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.99	2.076e4	1.519e4	1.123e3	8.113e2	1.38	NO	1.935e3	0.66258	0.66258	0.130
2	Total Hexa-Dioxins	33.79	1.234e4	1.015e4	8.585e2	7.210e2	1.19	NO	1.580e3	0.54098	0.54098	0.130

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.31	3.733e4	3.727e4	3.014e3	3.163e3	0.95	NO	6.178e3	2.9009	2.9009	0.189
2	1,2,3,4,6,7,8-HpCDD	38.35	2.182e4	2.018e4	1.947e3	1.748e3	1.11	NO	3.695e3	1.7351	1.7351	0.189

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.86	1.925e3	2.948e3	1.535e2	2.177e2	0.70	NO	3.712e2	0.084576	0.084576	0.0684

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.14	8.877e3	6.569e3	5.343e2	3.739e2	1.43	NO	9.081e2	0.20199	0.20199	0.0232

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-12.qld

Last Altered: Saturday, May 02, 2020 12:25:06 PM Pacific Daylight Time

Printed: Saturday, May 02, 2020 12:25:36 PM Pacific Daylight Time

Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.62	5.387e3	2.968e3	2.390e2	1.766e2	1.35	NO	4.156e2	0.11734	0.11734	0.0632
2	Total Hexa-Furans	33.14	5.245e3	4.782e3	2.341e2	2.181e2	1.07	NO	4.522e2	0.12768	0.12768	0.0632

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.91	5.169e3	5.757e3	4.161e2	4.140e2	1.01	NO	8.301e2	0.31244	0.31244	0.0899
2	Total Hepta-Furans	37.53	3.509e3	3.093e3	2.730e2	2.700e2	1.01	NO	5.430e2	0.25688	0.25688	0.111

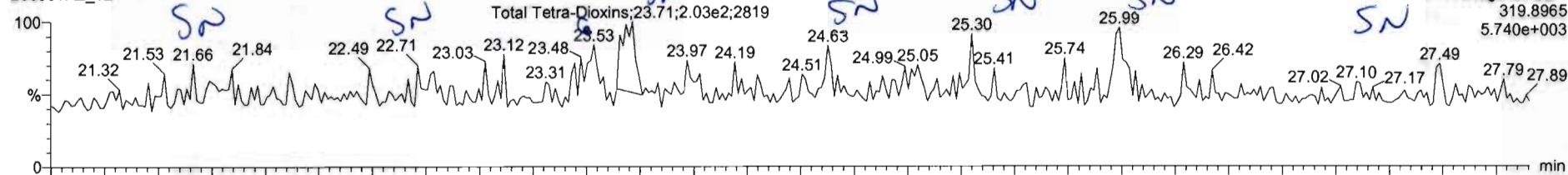
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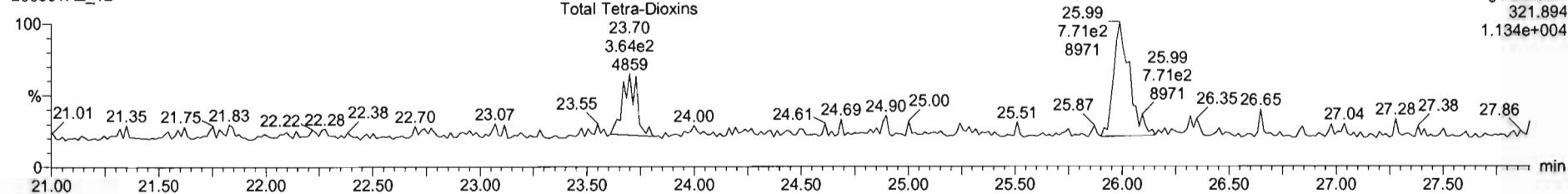
Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

2,3,7,8-TCDD

200501R2\_12

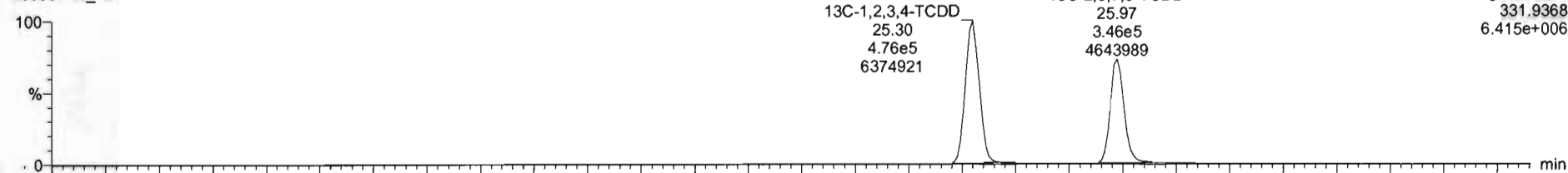


200501R2\_12

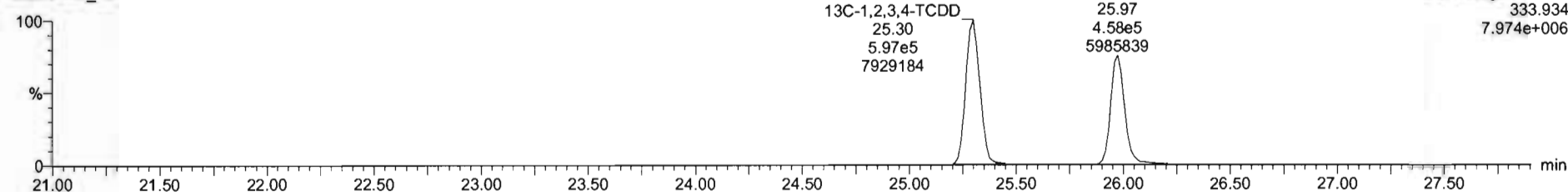


13C-2,3,7,8-TCDD

200501R2\_12



200501R2\_12



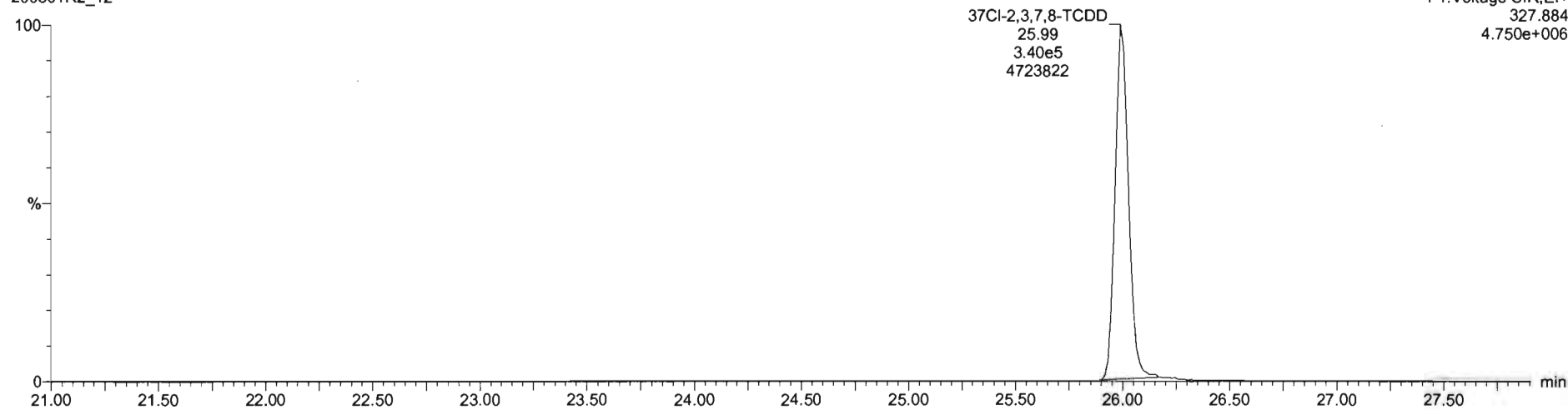
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Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

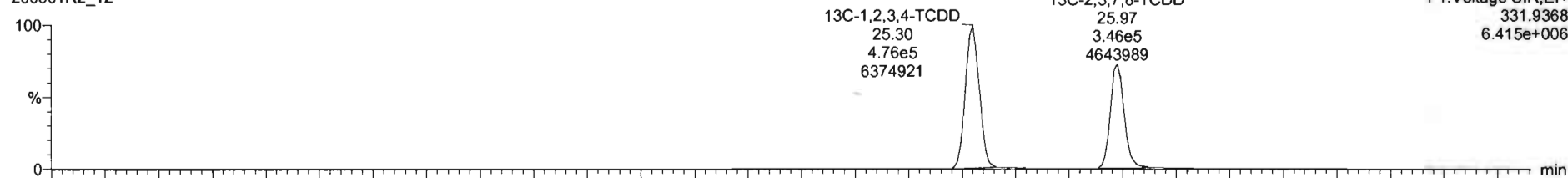
**37Cl-2,3,7,8-TCDD**

200501R2\_12

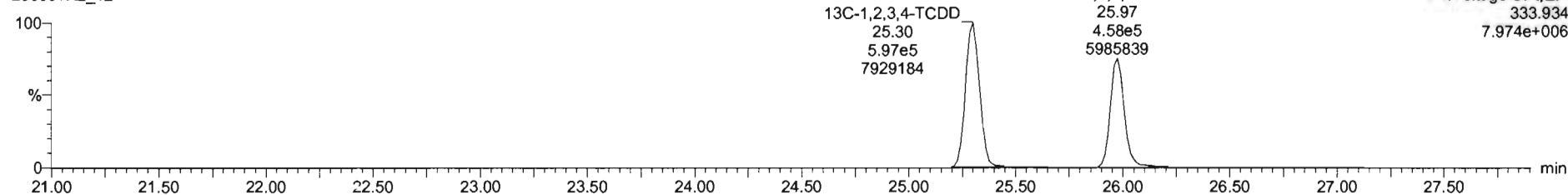


**13C-1,2,3,4-TCDD**

200501R2\_12



200501R2\_12



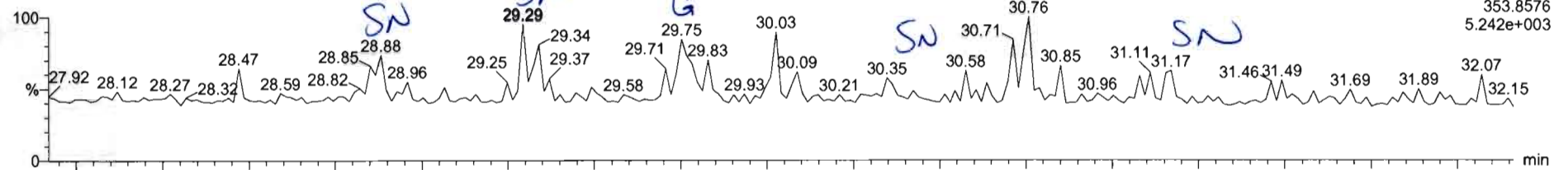
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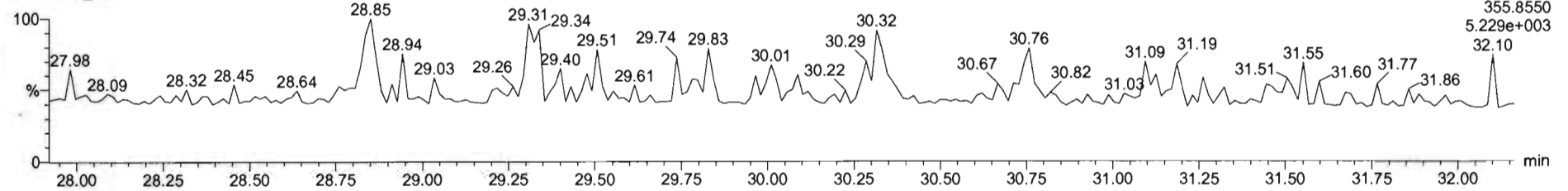
1,2,3,7,8-PeCDD

200501R2\_12



F2:Voltage SIR,EI+  
353.8576  
5.242e+003

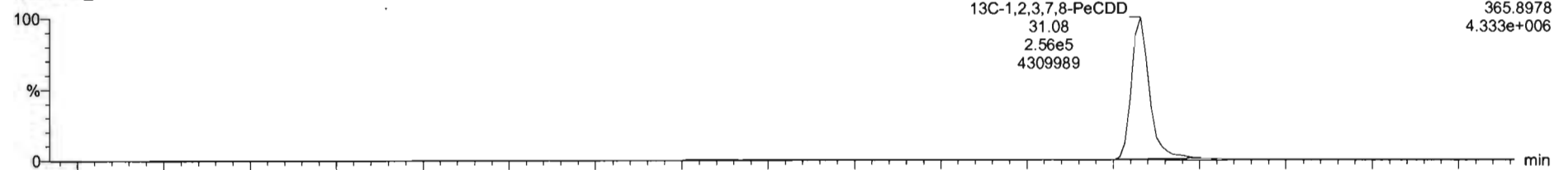
200501R2\_12



F2:Voltage SIR,EI+  
355.8550  
5.229e+003

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

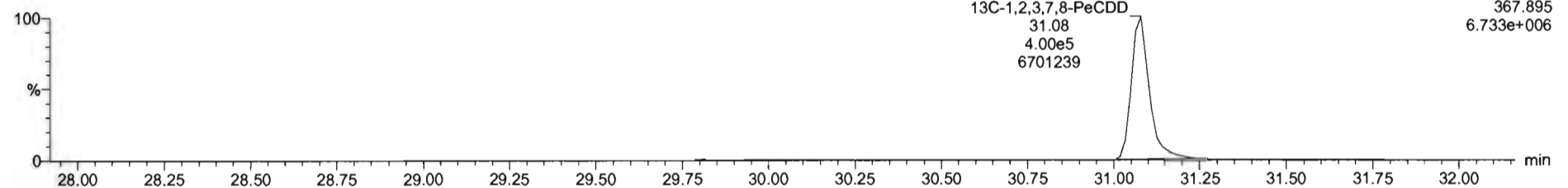
200501R2\_12



13C-1,2,3,7,8-PeCDD  
31.08  
2.56e5  
4309989

F2:Voltage SIR,EI+  
365.8978  
4.333e+006

200501R2\_12



13C-1,2,3,7,8-PeCDD  
31.08  
4.00e5  
6701239

F2:Voltage SIR,EI+  
367.895  
6.733e+006

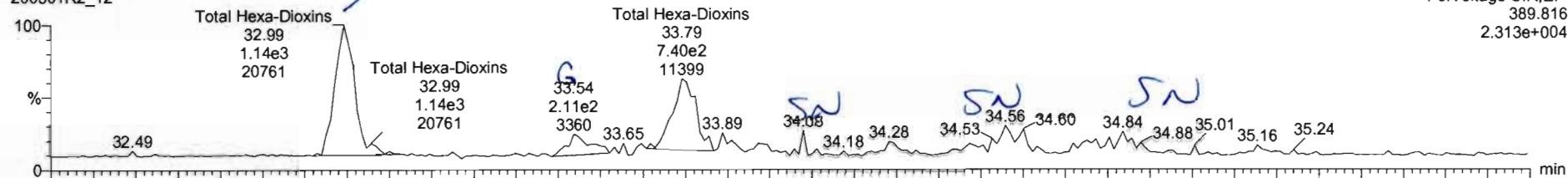
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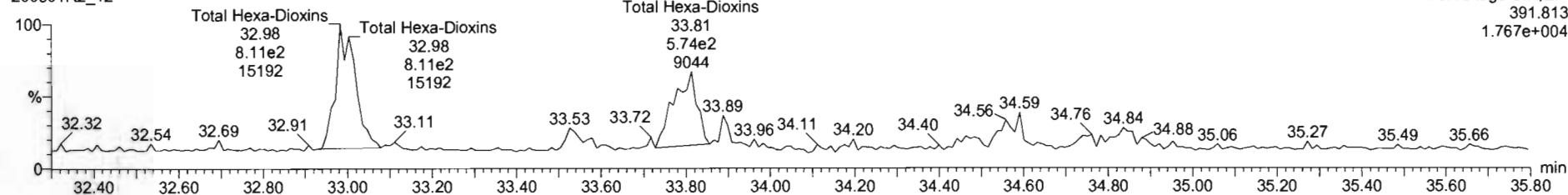
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1,2,3,4,7,8-HxCDD

200501R2\_12

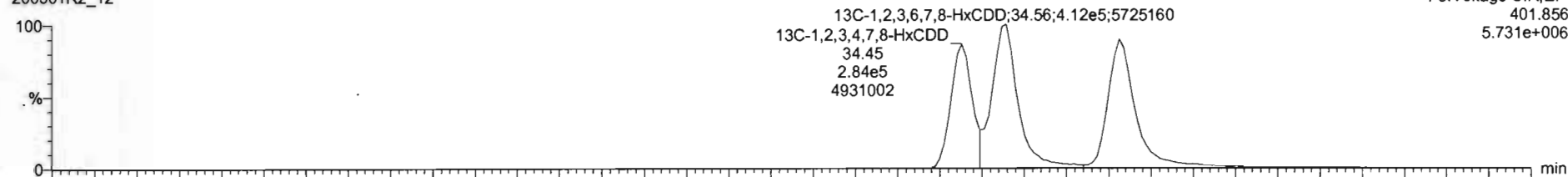


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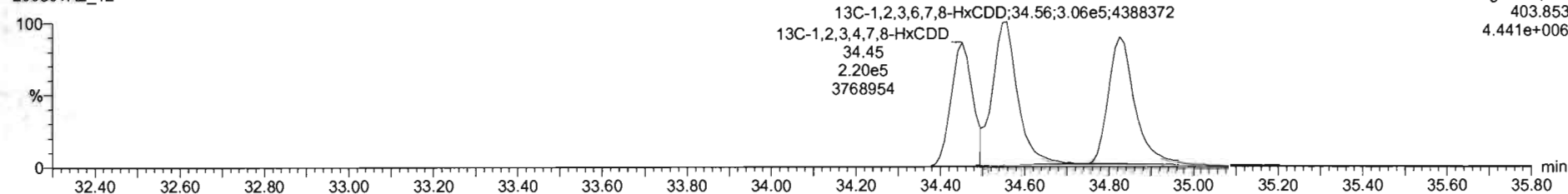


13C-1,2,3,4,7,8-HxCDD

200501R2\_12



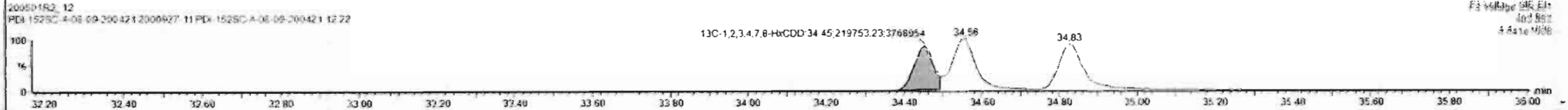
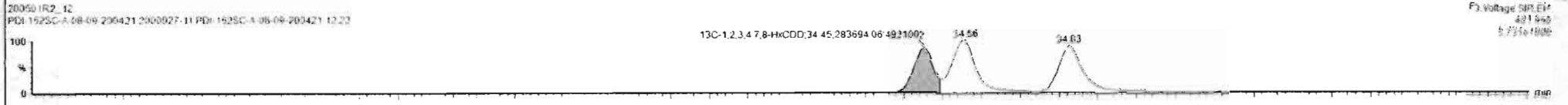
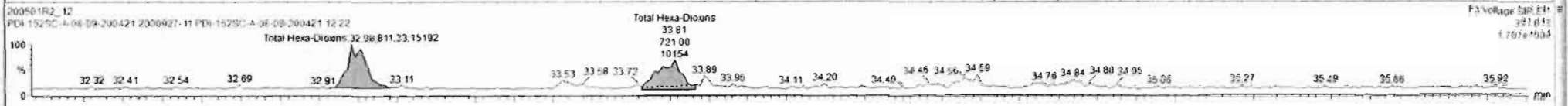
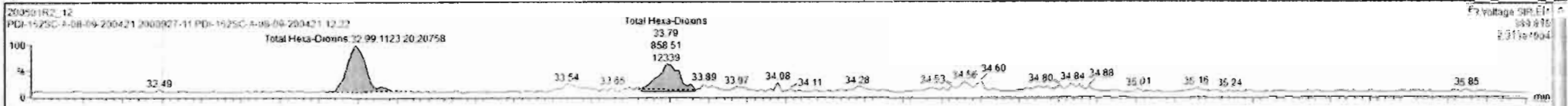
200501R2\_12





Name	Resp	RA	nly	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.100					0.0459	
40 Total Penta-Dioxins				0.9425	10.100					0.0473	
41 Total Hexa-Dioxins				0.9145	10.100			1.20		0.130	1.20
42 Total Hepta-Dioxins				0.8975	10.100			4.55		0.189	4.55
43 Total Tetra-Furans				0.7371	10.100					0.0317	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	32.99	1.123e3	6.113e2	1.36	NO	0.68258	0.68258
2 Total Hexa-Dioxins	33.79	6.585e2	7.210e2	1.19	NO	0.54098	0.54098



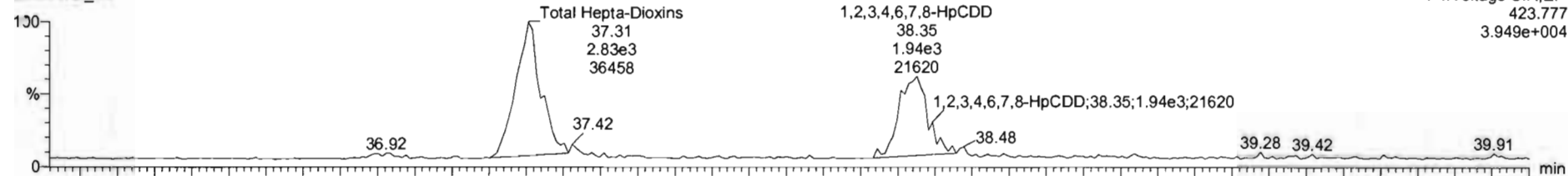
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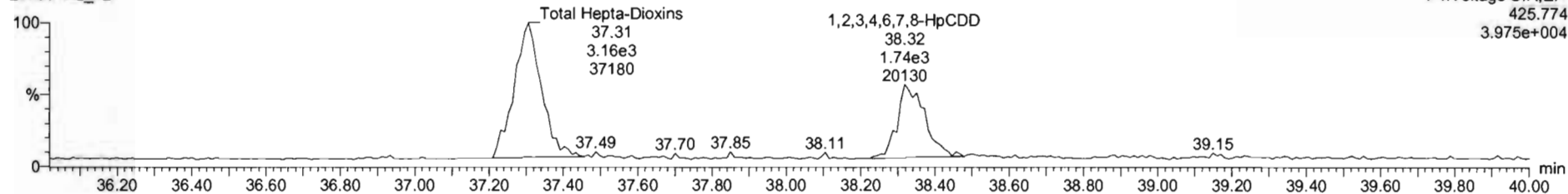
Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

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

200501R2\_12

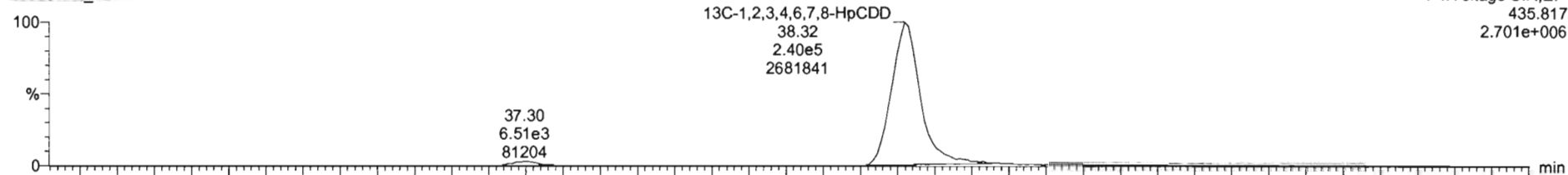


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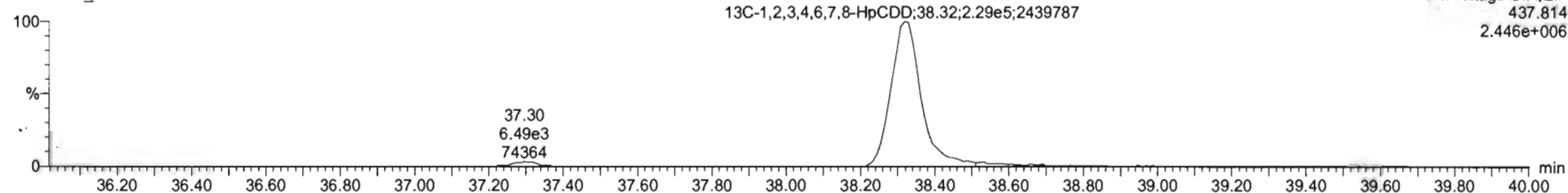


13C-1,2,3,4,6,7,8-HpCDD

200501R2\_12

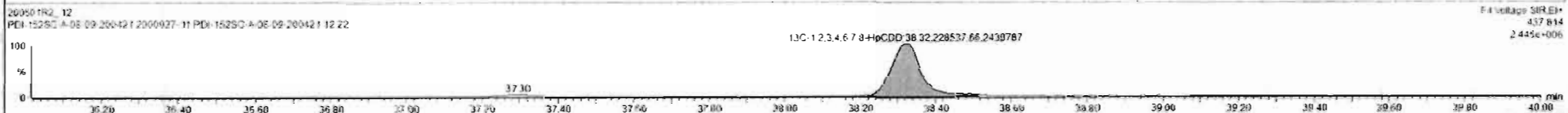
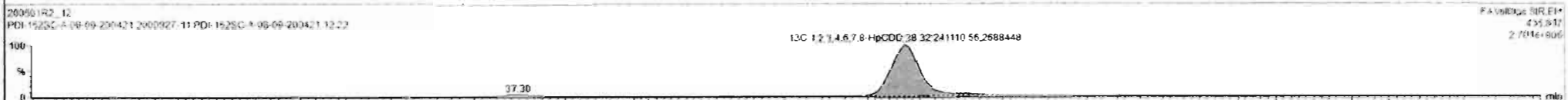
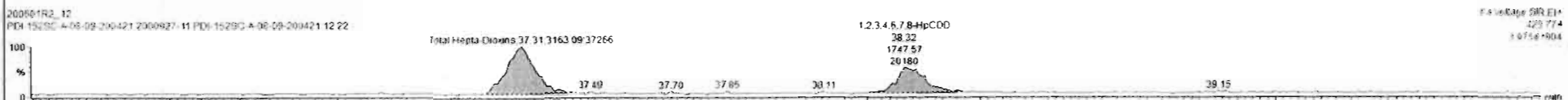
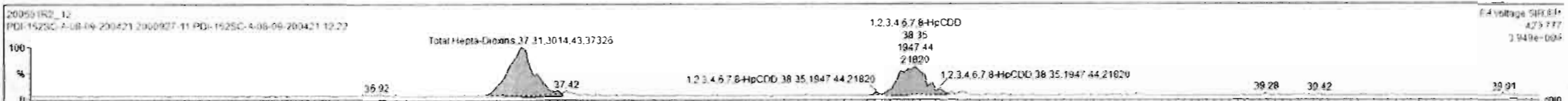


200501R2\_12



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.100					0.0499	
40 Total Penta-Dioxins				0.9425	10.100					0.0478	
41 Total Hexa-Dioxins				0.9145	10.100			1.20		0.130	1.20
42 Total Hepta-Dioxins				0.8575	10.100			4.64		0.189	4.64
43 Total Tetra-Furans				0.7871	10.100					0.0317	

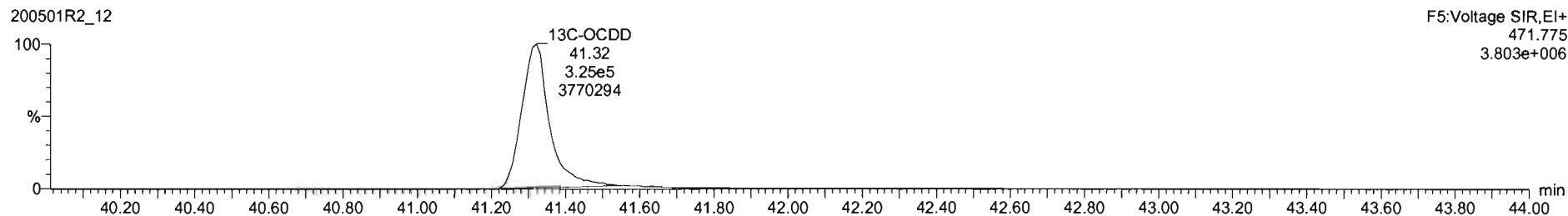
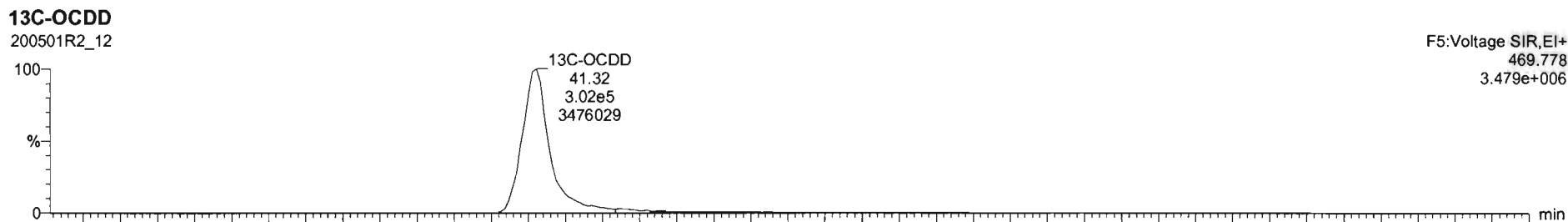
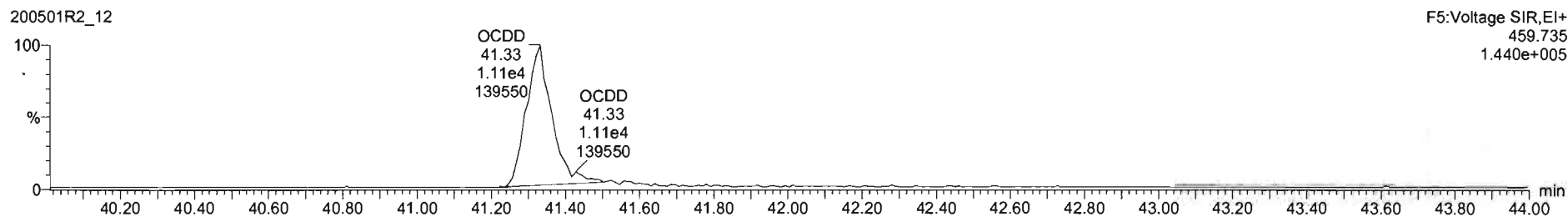
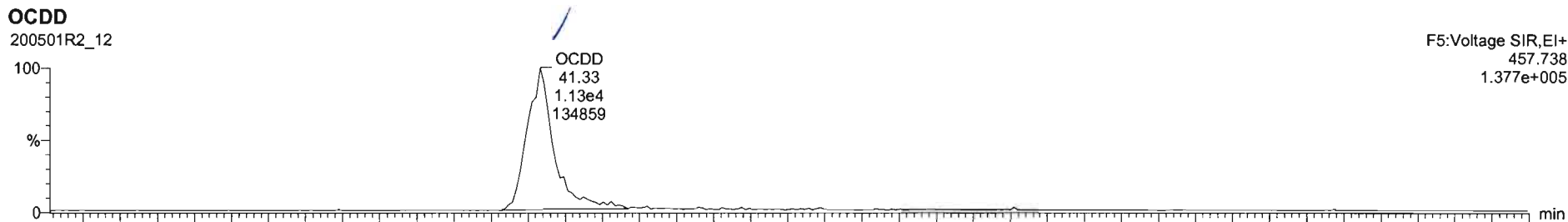
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.31	3.014e3	3.163e3	0.95	NO	2.9009	2.9009
2 1,2,3,4,6,7,8-HpCDD	38.35	1.947e3	1.748e3	1.11	NO	1.7351	1.7351

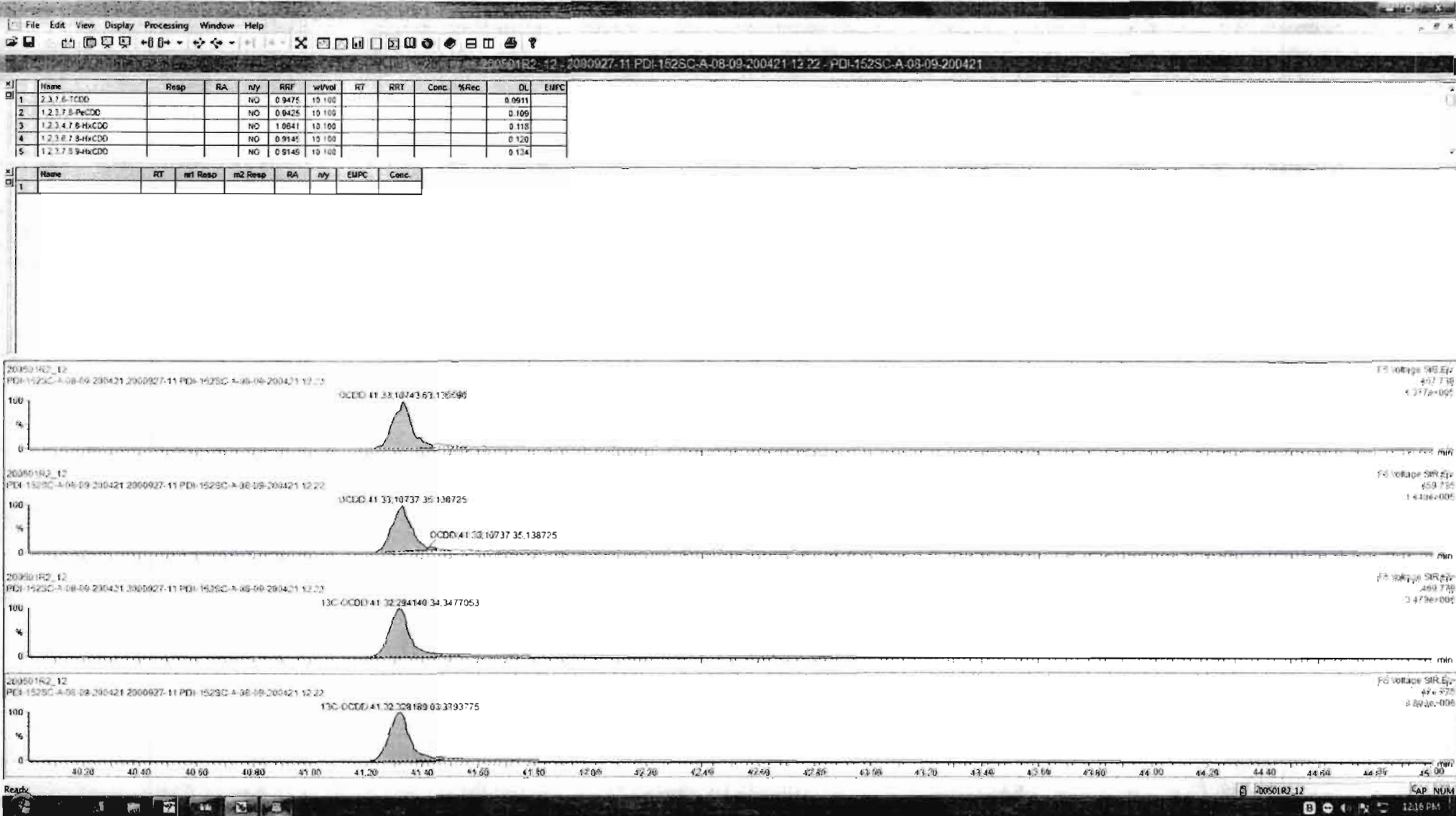


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Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421



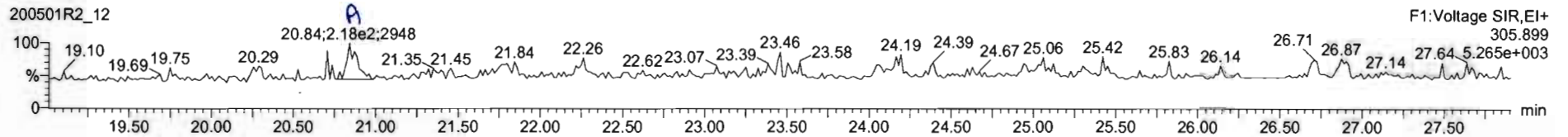
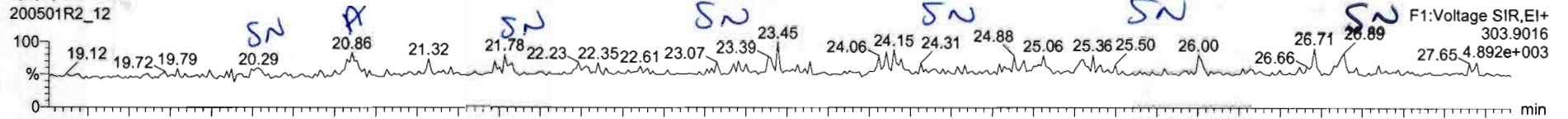


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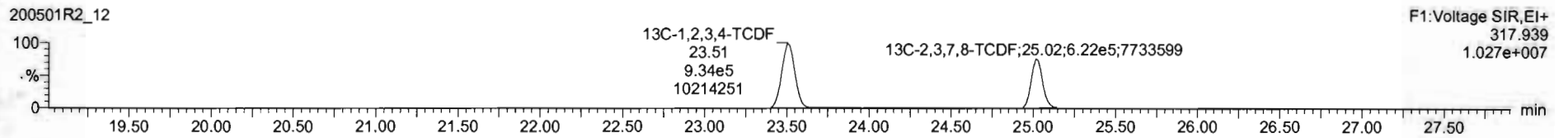
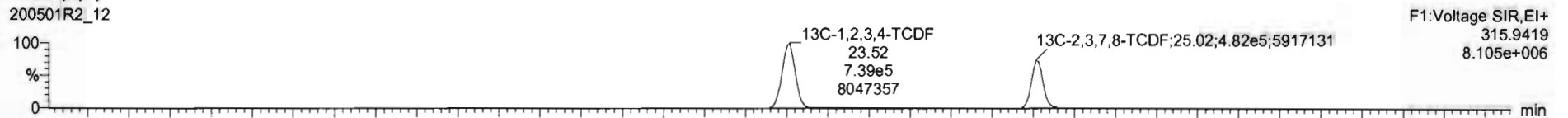
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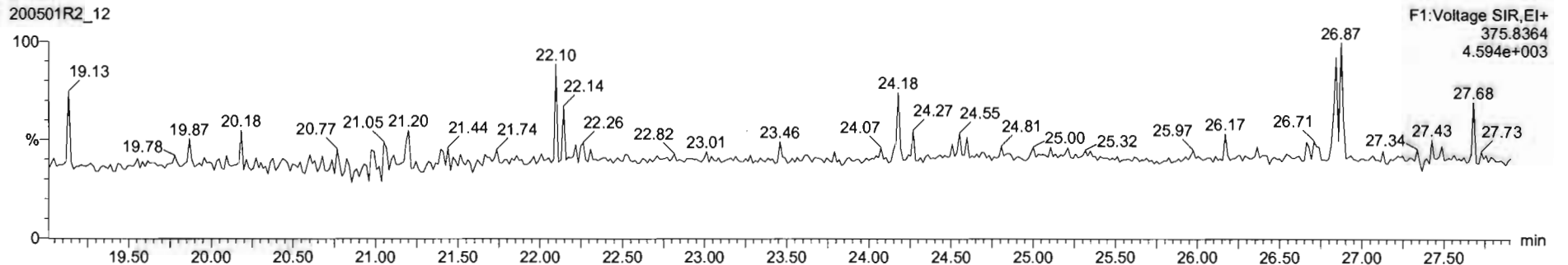
2,3,7,8-TCDF



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

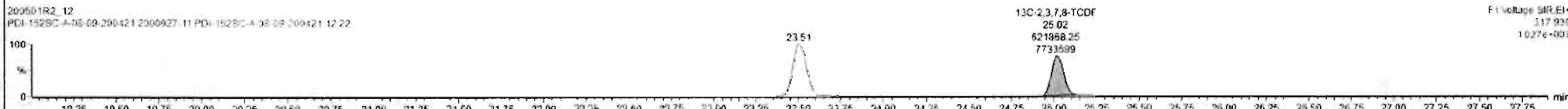
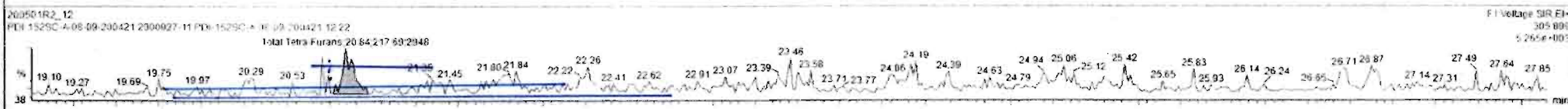
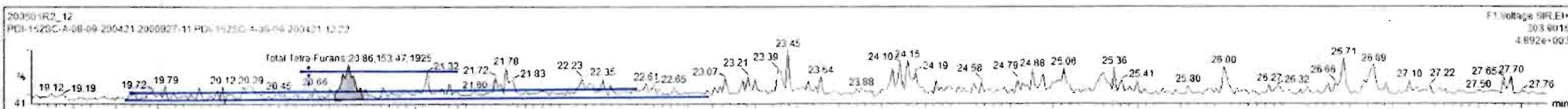


DPE1



Name	Resp	RA	n/y	RRT	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.100					0.0499	
40 Total Penta-Dioxins				0.9425	10.100					0.0478	
41 Total Hexa-Dioxins				0.9145	10.100			1.20		0.130	1.20
42 Total Hepta-Dioxins				0.8975	10.100			4.64		0.189	4.64
43 Total Tetra-Furans				0.7871	10.100			0.0846		0.0664	0.0846

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.36	1.535e2	2.177e2	0.70	ND	0.084576	0.084576



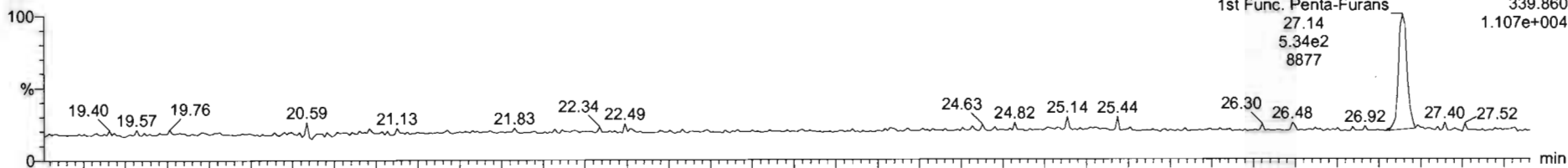
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Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

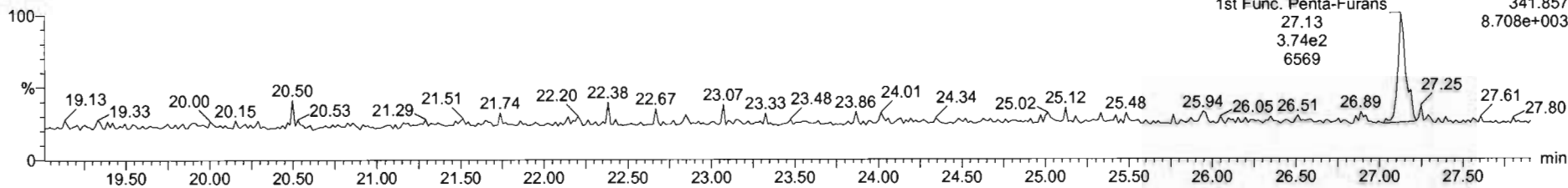
1st Func. Penta-Furans

200501R2\_12



1st Func. Penta-Furans  
27.14  
5.34e2  
8877  
F1:Voltage SIR,EI+  
339.860  
1.107e+004

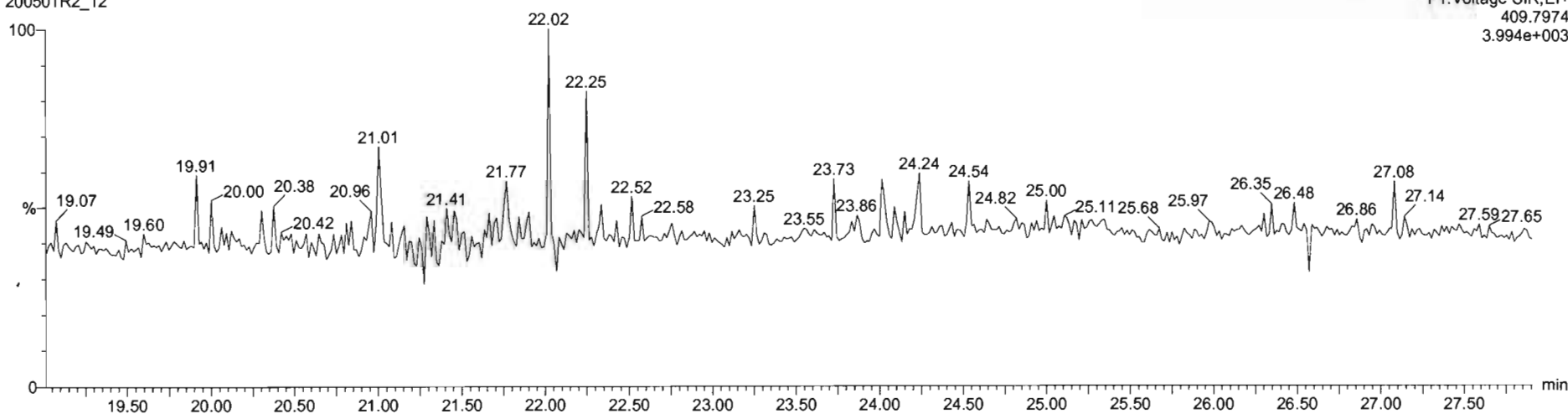
200501R2\_12



1st Func. Penta-Furans  
27.13  
3.74e2  
6569  
F1:Voltage SIR,EI+  
341.857  
8.708e+003

DPE6

200501R2\_12



F1:Voltage SIR,EI+  
409.7974  
3.994e+003



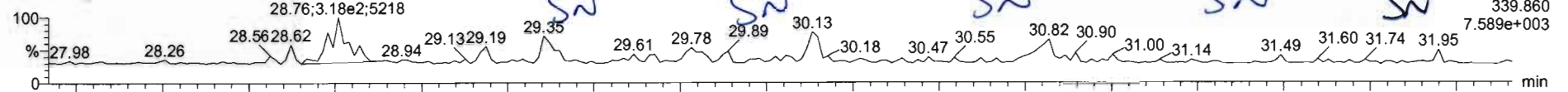
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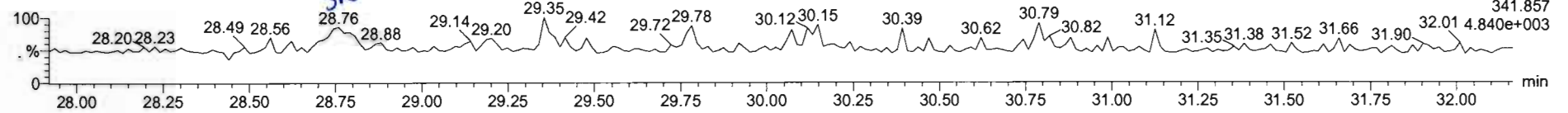
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1,2,3,7,8-PeCDF

200501R2\_12

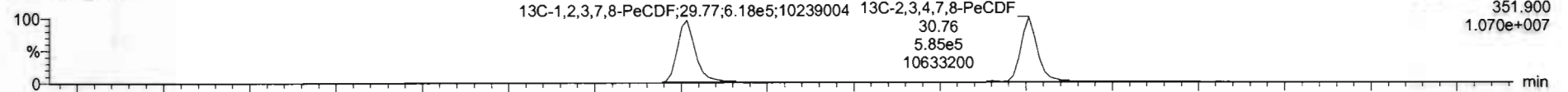


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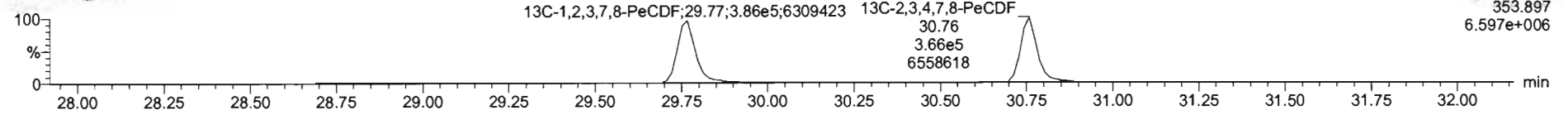


13C-1,2,3,7,8-PeCDF

200501R2\_12

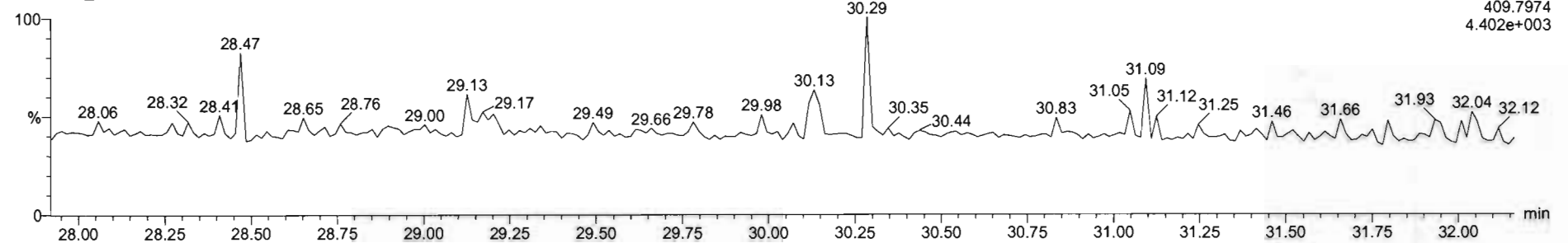


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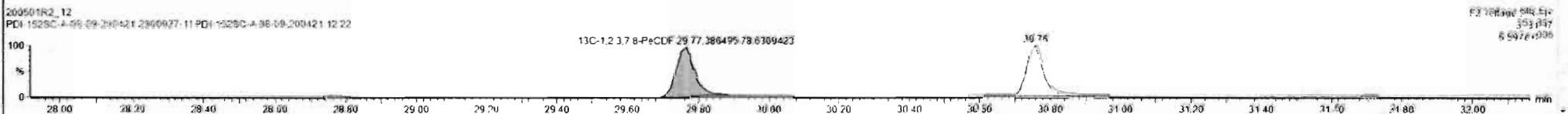
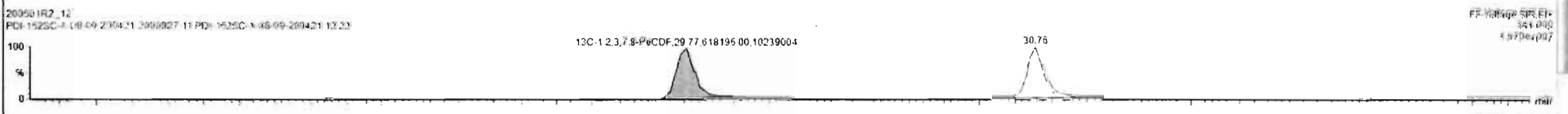
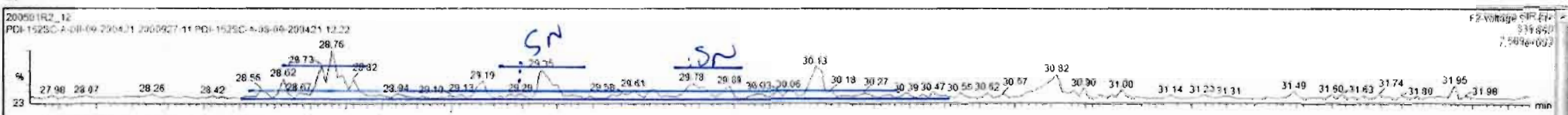
DPE2

200501R2\_12



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.100			0.0846	0.0684	0.0846	
44 1st Func. Penta-Furans				0.9102	10.100			0.202	0.0232	0.202	
45 Total Penta-Furans				0.9102	10.100			0.0253			
46 Total Hexa-Furans				0.9217	10.100			0.060	0.0349	0.102	
47 Total Hepta-Furans				0.8712	10.100			0.540	0.111	0.540	

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

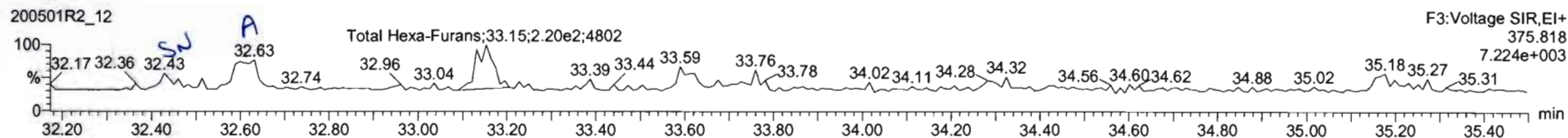
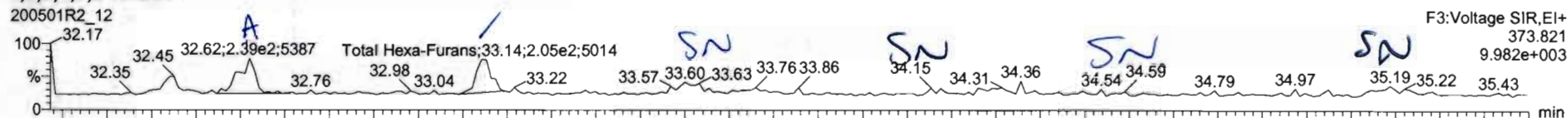


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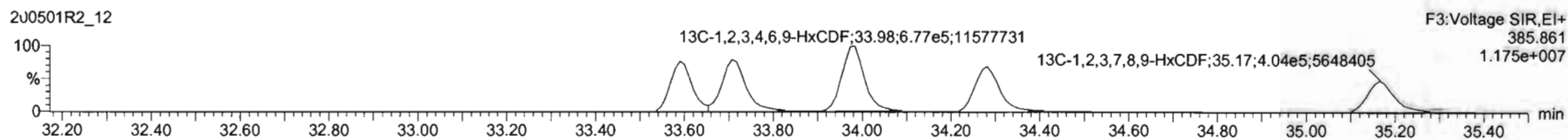
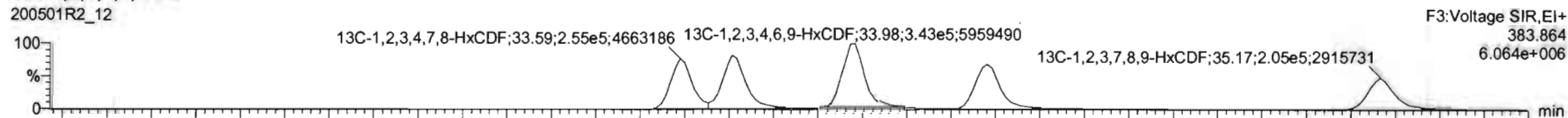
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

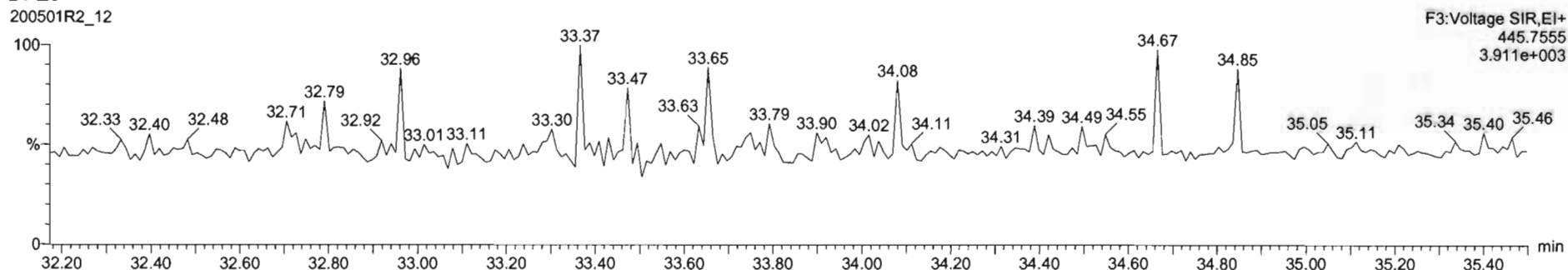
1,2,3,4,7,8-HxCDF



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

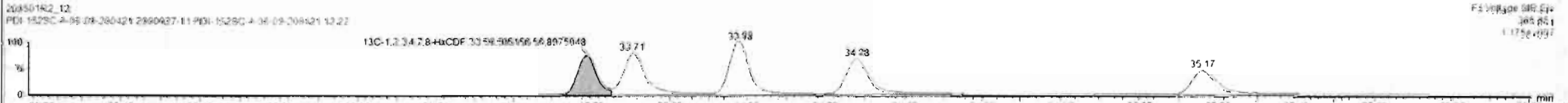
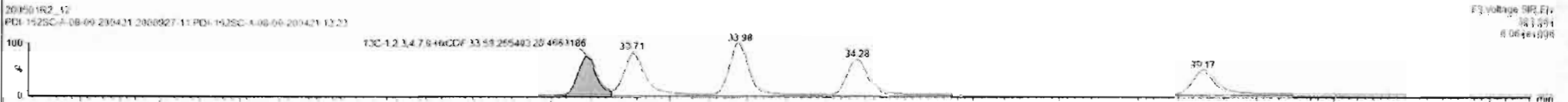
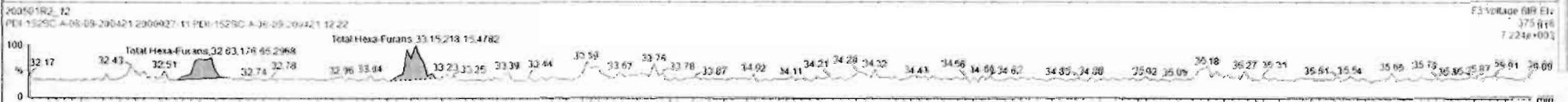
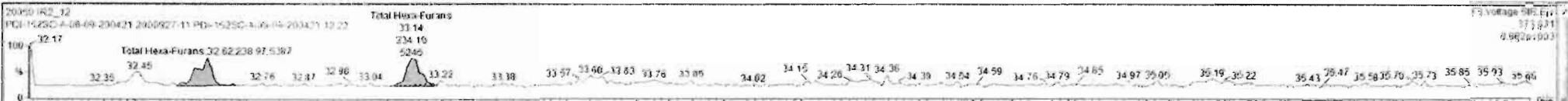


DPE3



Name	Resp	RA	nHy	RRT	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				2.7871	10.100			0.0846		0.0684	0.0846
44 1st Func. Penta-Furans				0.9132	10.100			0.202		0.0232	0.202
45 Total Penta-Furans				0.9132	10.100			0.0290			
46 Total Hexa-Furans				0.9217	10.100			0.245		0.0632	0.245
47 Total Hepta-Furans				0.8712	10.100			0.540		0.111	0.540

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc
1 Total Hexa-Furans	32.62	2.390e2	1.766e2	1.35	NO	0.11734	0.11734
2 Total Hexa-Furans	33.14	2.341e2	2.181e2	1.07	NO	0.12768	0.12768

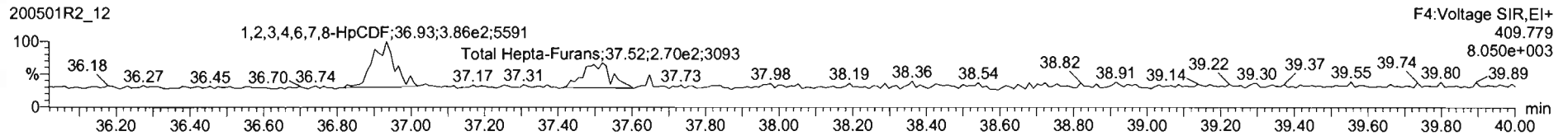
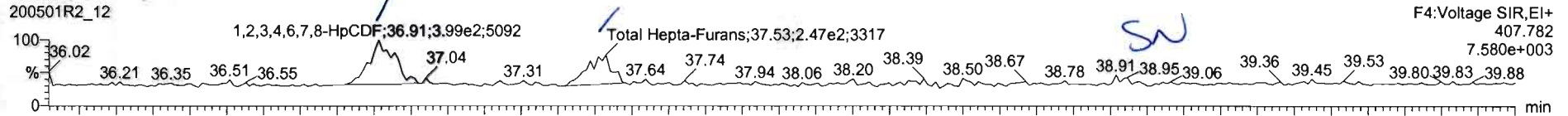


Dataset: Untitled

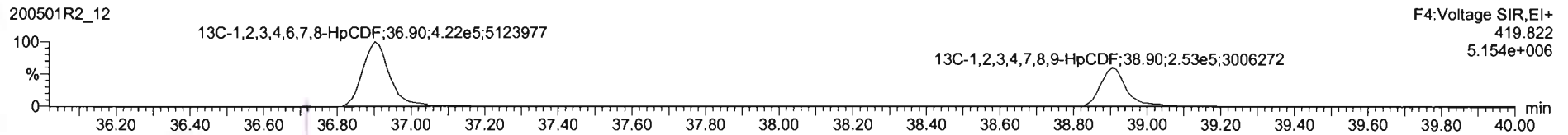
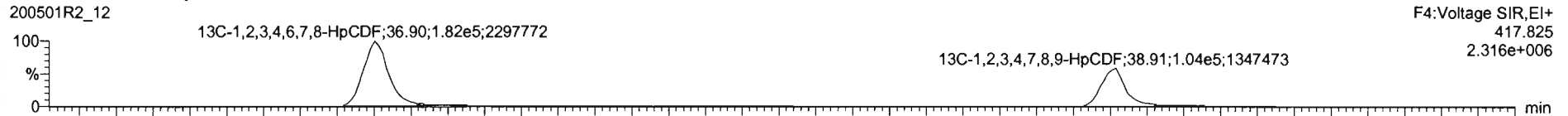
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421

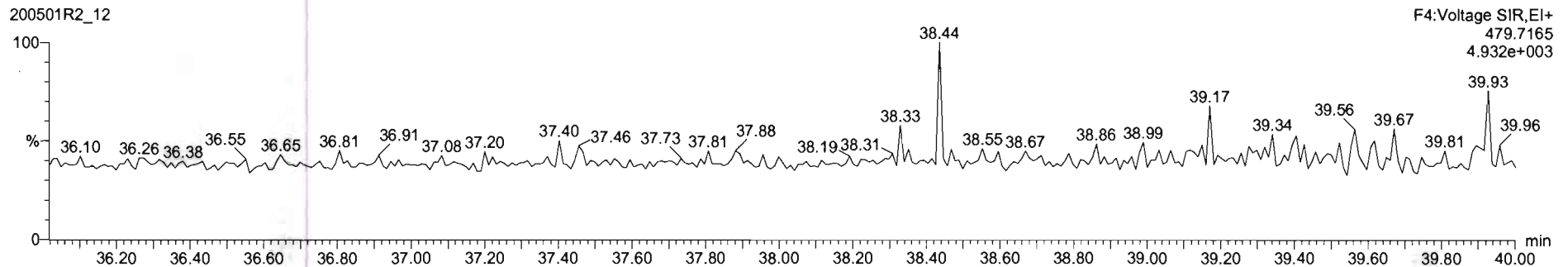
1,2,3,4,6,7,8-HpCDF



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

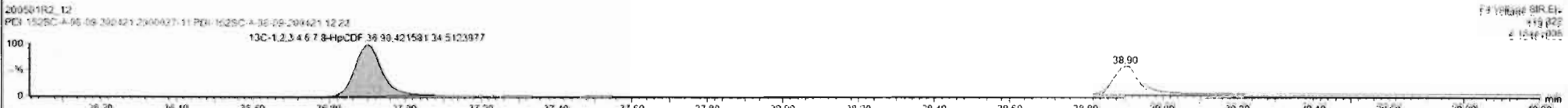
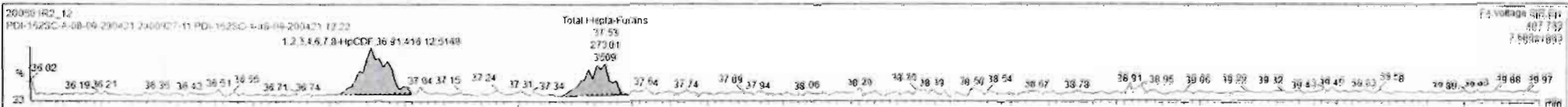


DPE4



Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7971	10.100			0.0846		0.0654	0.0846
44 1st Func. Penta-Furans				0.9102	10.100			0.202		0.0232	0.202
45 Total Penta-Furans				0.9102	10.100			0.0293			
46 Total Hexa-Furans				0.9217	10.100			0.245		0.0632	0.245
47 Total Hepta-Furans				0.6712	10.100			0.569		0.111	0.569

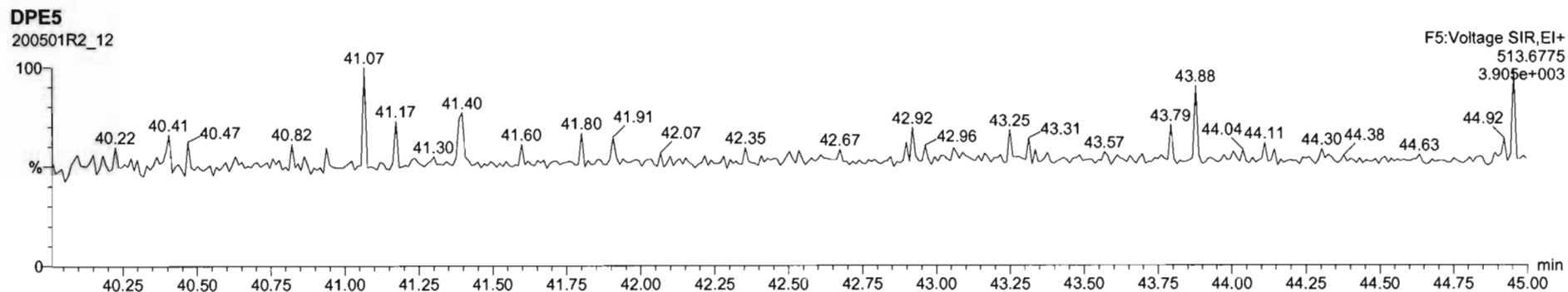
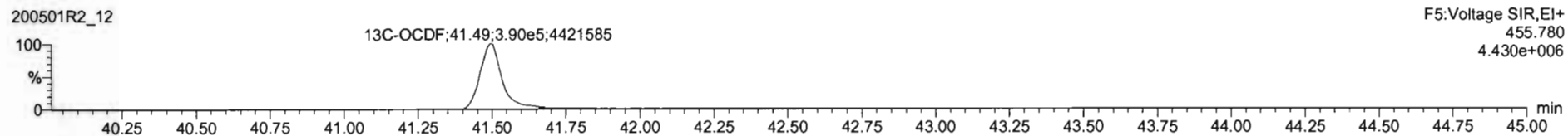
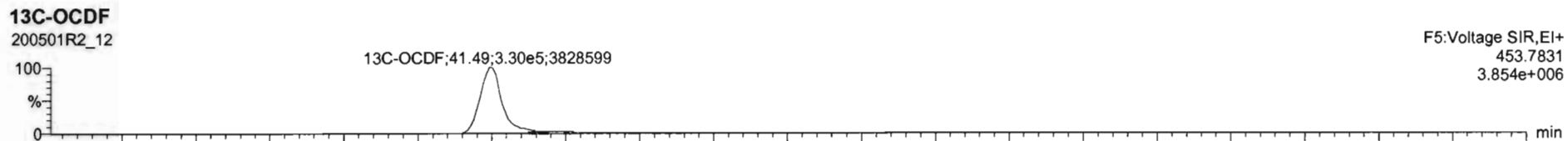
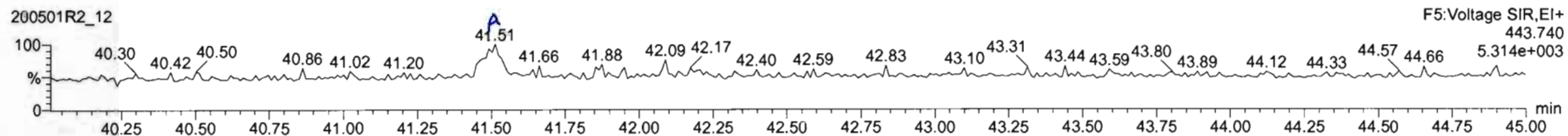
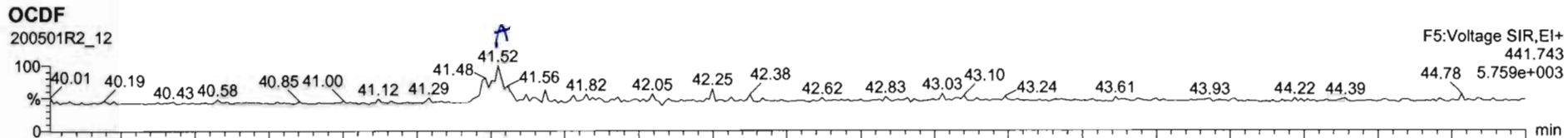
Name	RT	m1 Resp	m2 Resp	RA	ntf	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.91	4.161e2	4.140e2	1.01	NO	0.21244	0.21244
2 Total Hepta-Furans	37.53	2.730e2	2.700e2	1.01	NO	0.25668	0.25668



Dataset: Untitled

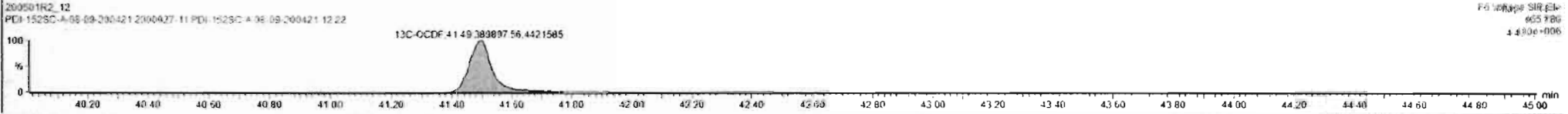
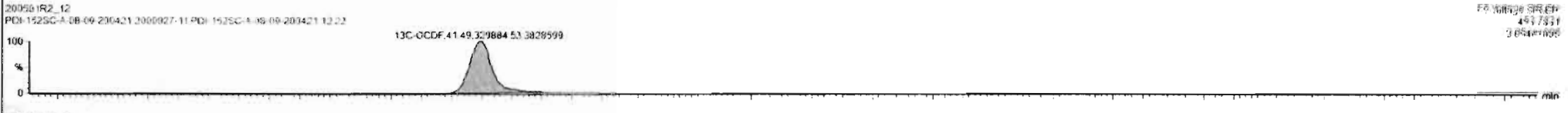
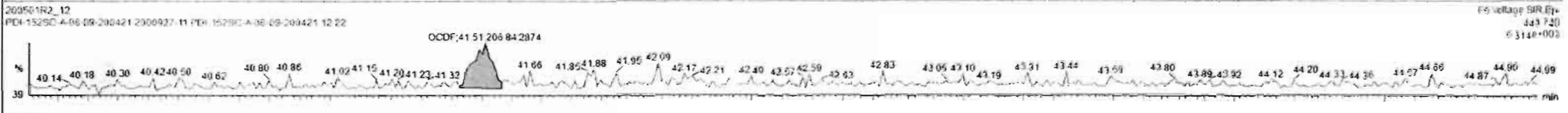
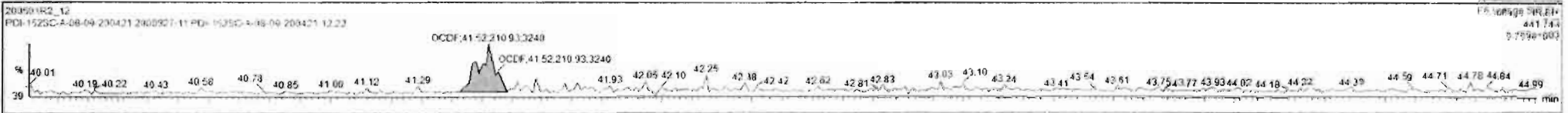
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Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421



#	Name	Resp	RA	inj	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF	4.16e2	1.02	NO	0.6021	10.100	41.52	1.001	0.287		0.134	0.287
18	13C-2,3,7,8-TCDD	8.05e5	0.76	NO	1.1555	10.100	25.98	1.027	128	64.7	0.331	
19	13C-1,2,3,7,8-PeCDD	6.95e5	0.64	NO	0.8472	10.100	31.08	1.226	143	72.1	0.264	
20	13C-1,2,3,4,7,8-HxCDD	5.03e5	1.29	NO	0.7496	10.100	34.45	1.014	130	65.9	0.469	
21	13C-1,2,3,6,7,8-HxCDD	7.19e5	1.35	NO	0.9630	10.100	34.56	1.017	145	73.2	0.365	

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

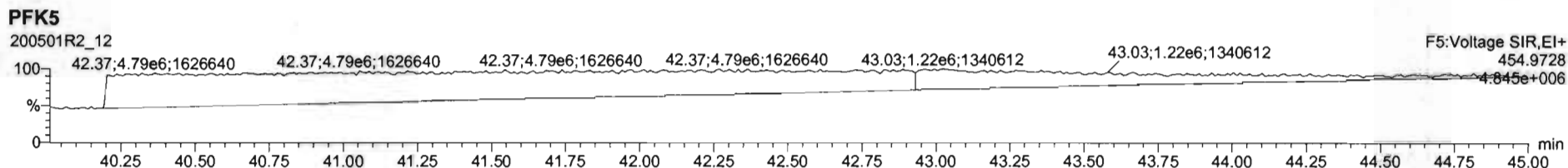
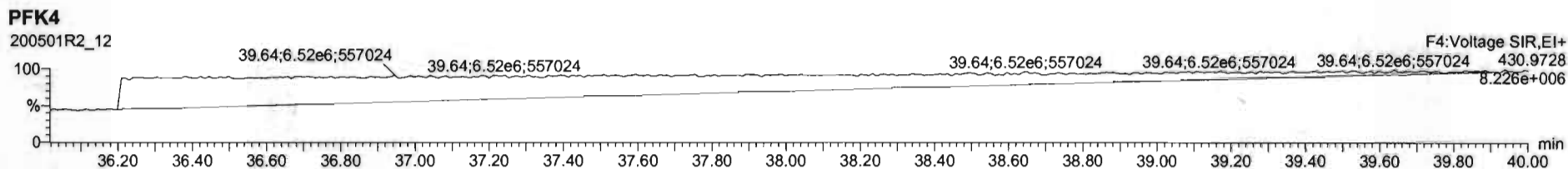
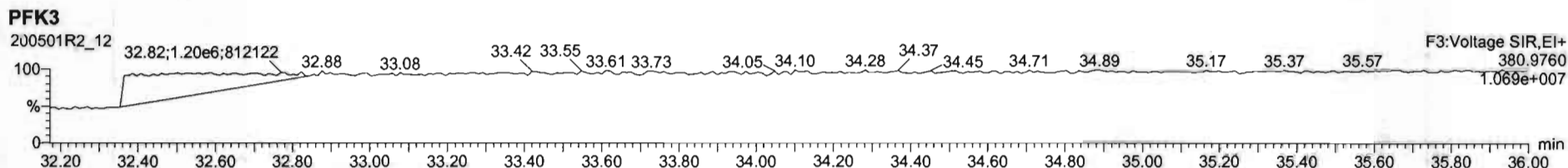
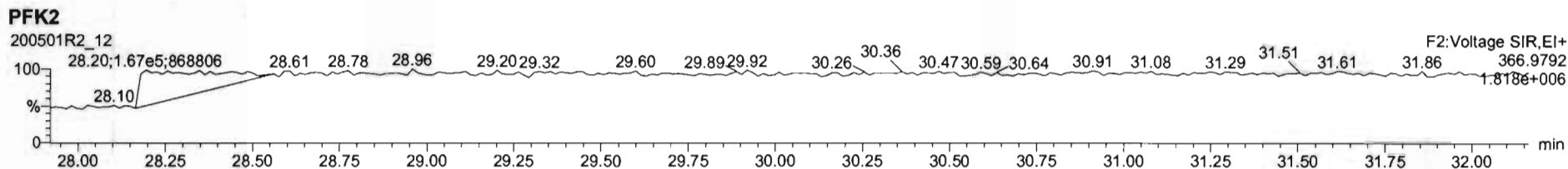
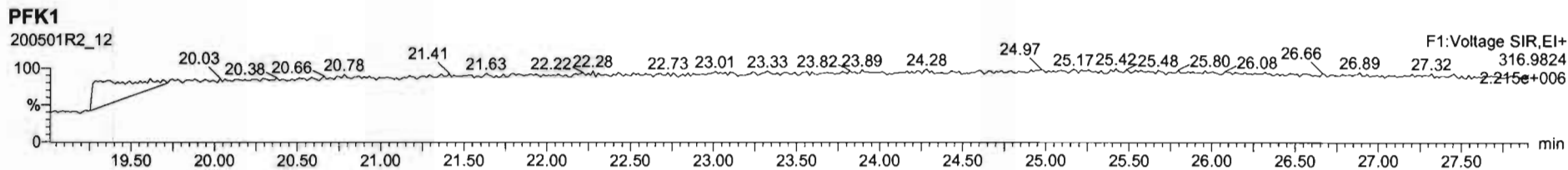




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Name: 200501R2\_12, Date: 01-May-2020, Time: 23:51:25, ID: 2000927-11 PDI-152SC-A-08-09-200421 12.22, Description: PDI-152SC-A-08-09-200421



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-13.qld

Last Altered: Saturday, May 02, 2020 10:42:16 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 10:42:47 AM Pacific Daylight Time

GPB 05/02/2020

C7 05/03/2020

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

Name: 200501R2\_13, Date: 02-May-2020, Time: 00:37:36, ID: 2000927-12 PDI-152SC-A-09-10-200421 12.9, Description: PDI-152SC-A-09-10-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.068	26.021		1.001				0.0823	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.068	31.101		1.001				0.0660	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.068	34.473		1.000				0.0543	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.068	34.559		1.000				0.0553	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.068	34.846		1.000				0.0585	
6	6 1,2,3,4,6,7,8-HpCDD	1.31e3	1.04	NO	0.898	10.068	38.341	38.36	1.000	1.001	0.44822		0.0958	0.448
7	7 OCDD	1.28e4	0.90	NO	0.933	10.068	41.311	41.32	1.000	1.000	5.9276		0.143	5.93
8	8 2,3,7,8-TCDF			NO	0.787	10.068	25.057		1.001				0.0500	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.068	29.803		1.001				0.0414	
10	10 2,3,4,7,8-PeCDF			NO	0.946	10.068	30.805		1.001				0.0400	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.068	33.600		1.000				0.0419	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.068	33.727		1.000				0.0404	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.068	34.326		1.001				0.0443	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.068	35.176		1.000				0.0693	
15	15 1,2,3,4,6,7,8-HpCDF	5.39e2	0.96	NO	0.871	10.068	36.949	36.91	1.001	1.000	0.14246		0.0438	0.142
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.068	38.904		1.000				0.0627	
17	17 OCDF			NO	0.802	10.068	41.492		1.000				0.0825	
18	18 13C-2,3,7,8-TCDD	9.12e5	0.82	NO	1.16	10.068	25.969	25.99	1.026	1.027	118.52	59.7	0.261	
19	19 13C-1,2,3,7,8-PeCDD	8.13e5	0.65	NO	0.847	10.068	31.049	31.08	1.227	1.228	144.55	72.8	0.221	
20	20 13C-1,2,3,4,7,8-HxCDD	6.94e5	1.29	NO	0.750	10.068	34.463	34.46	1.014	1.014	145.66	73.3	0.395	
21	21 13C-1,2,3,6,7,8-HxCDD	8.98e5	1.28	NO	0.963	10.068	34.575	34.56	1.017	1.017	146.75	73.9	0.307	
22	22 13C-1,2,3,7,8,9-HxCDD	8.43e5	1.24	NO	0.838	10.068	34.844	34.84	1.025	1.025	158.28	79.7	0.353	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.46e5	1.05	NO	0.641	10.068	38.331	38.33	1.128	1.128	158.37	79.7	0.500	
24	24 13C-OCDD	9.17e5	0.89	NO	0.586	10.068	41.321	41.31	1.216	1.216	246.14	62.0	0.395	
25	25 13C-2,3,7,8-TCDF	1.19e6	0.79	NO	1.03	10.068	25.030	25.03	0.989	0.989	110.83	55.8	0.384	
26	26 13C-1,2,3,7,8-PeCDF	1.25e6	1.61	NO	0.845	10.068	29.741	29.78	1.176	1.177	142.47	71.7	0.468	
27	27 13C-2,3,4,7,8-PeCDF	1.15e6	1.62	NO	0.814	10.068	30.731	30.77	1.215	1.216	136.42	68.7	0.486	
28	28 13C-1,2,3,4,7,8-HxCDF	1.01e6	0.51	NO	1.00	10.068	33.603	33.60	0.989	0.989	158.17	79.6	0.503	
29	29 13C-1,2,3,6,7,8-HxCDF	1.17e6	0.51	NO	1.14	10.068	33.726	33.72	0.992	0.992	161.83	81.5	0.444	
30	30 13C-2,3,4,6,7,8-HxCDF	1.06e6	0.53	NO	1.02	10.068	34.293	34.29	1.009	1.009	162.96	82.0	0.494	
31	31 13C-1,2,3,7,8,9-HxCDF	8.05e5	0.51	NO	0.845	10.068	35.184	35.18	1.035	1.035	149.95	75.5	0.598	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-13.qld

Last Altered: Saturday, May 02, 2020 10:42:16 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 10:42:47 AM Pacific Daylight Time

Name: 200501R2\_13, Date: 02-May-2020, Time: 00:37:36, ID: 2000927-12 PDI-152SC-A-09-10-200421 12.9, Description: PDI-152SC-A-09-10-200421

RT	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.63e5	0.44	NO	0.771	10.068	36.913	36.91	1.086	1.086	176.00	88.6	0.471	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.90e5	0.44	NO	0.482	10.068	38.922	38.90	1.145	1.145	159.89	80.5	0.753	
34	34 13C-OCDF	1.04e6	0.94	NO	0.669	10.068	41.491	41.49	1.221	1.221	244.04	61.4	0.337	
35	35 37Cl-2,3,7,8-TCDD	5.00e5			1.10	10.068	25.999	26.00	1.028	1.028	68.597	86.3	0.0456	
36	36 13C-1,2,3,4-TCDD	1.32e6	0.80	NO	1.00	10.068	25.350	25.30	1.000	1.000	198.64	100	0.303	
37	37 13C-1,2,3,4-TCDF	2.06e6	0.80	NO	1.00	10.068	23.560	23.52	1.000	1.000	198.64	100	0.397	
38	38 13C-1,2,3,4,6,9-HxCDF	1.26e6	0.51	NO	1.00	10.068	34.000	33.98	1.000	1.000	198.64	100	0.505	
39	39 Total Tetra-Dioxins				0.947	10.068	24.620		0.000				0.0524	
40	40 Total Penta-Dioxins				0.942	10.068	29.960		0.000				0.0262	
41	41 Total Hexa-Dioxins				0.915	10.068	33.635		0.000		0.17040		0.0587	0.170
42	42 Total Hepta-Dioxins				0.898	10.068	37.640		0.000		1.2728		0.0958	1.27
43	43 Total Tetra-Furans				0.787	10.068	23.610		0.000				0.0191	
44	44 1st Func. Penta-Furans				0.910	10.068	27.090		0.000				0.00809	
45	45 Total Penta-Furans				0.910	10.068	29.275		0.000				0.0198	
46	46 Total Hexa-Furans				0.922	10.068	33.555		0.000		0.055989		0.0265	0.105
47	47 Total Hepta-Furans				0.871	10.068	37.835		0.000		0.27927		0.0544	0.279

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-13.qld

Last Altered: Saturday, May 02, 2020 10:42:16 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 10:42:47 AM Pacific Daylight Time

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

Name: 200501R2\_13, Date: 02-May-2020, Time: 00:37:36, ID: 2000927-12 PDI-152SC-A-09-10-200421 12.9, Description: PDI-152SC-A-09-10-200421

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.03	6.243e3	6.699e3	3.406e2	2.962e2	1.15	NO	6.367e2	0.17040	0.17040	0.0587

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	1.913e4	1.813e4	1.202e3	1.205e3	1.00	NO	2.407e3	0.82463	0.82463	0.0958
2	1,2,3,4,6,7,8-HpCDD	38.36	8.781e3	8.054e3	6.667e2	6.414e2	1.04	NO	1.308e3	0.44822	0.44822	0.0958

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-13.qld

Last Altered: Saturday, May 02, 2020 10:42:16 AM Pacific Daylight Time

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35 ID: 200501R2-13, Date: 02-May-2020, Time: 09:27:30, ID: 2000927-12 PDI-152SC-A-09-10-200421 12.9, Description: PDI-152SC-A-09-10-200421

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.62	2.569e3	2.609e3	9.590e1	8.466e1	1.13	NO	0.000e0	0.00000	0.038496	0.0265
2	Total Hexa-Furans	32.64	1.261e3	8.710e2	4.825e1	2.305e1	2.09	YES	0.000e0	0.00000	0.011007	0.0265
3	Total Hexa-Furans	33.15	3.784e3	2.808e3	1.404e2	1.222e2	1.15	NO	2.626e2	0.055989	0.055989	0.0265

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.91	3.176e3	4.199e3	2.640e2	2.750e2	0.96	NO	5.390e2	0.14246	0.14246	0.0438
2	Total Hepta-Furans	37.49	3.266e3	3.219e3	1.996e2	2.063e2	0.97	NO	4.058e2	0.13681	0.13681	0.0544

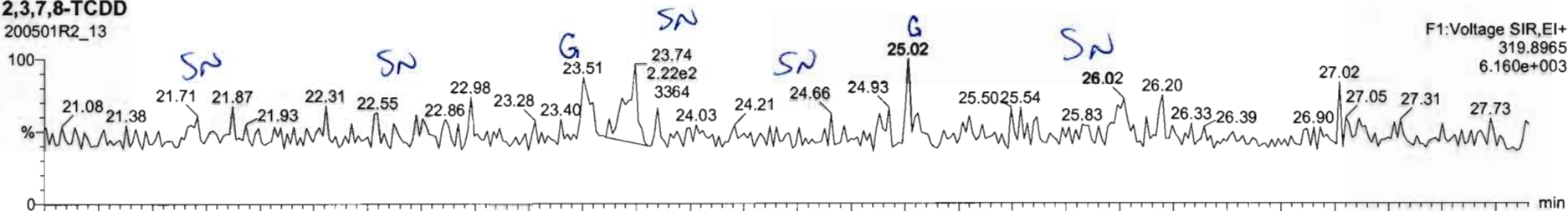
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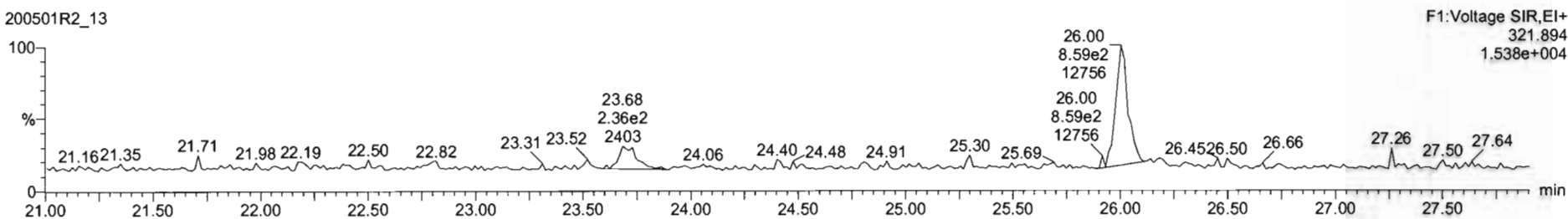
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2,3,7,8-TCDD

200501R2\_13

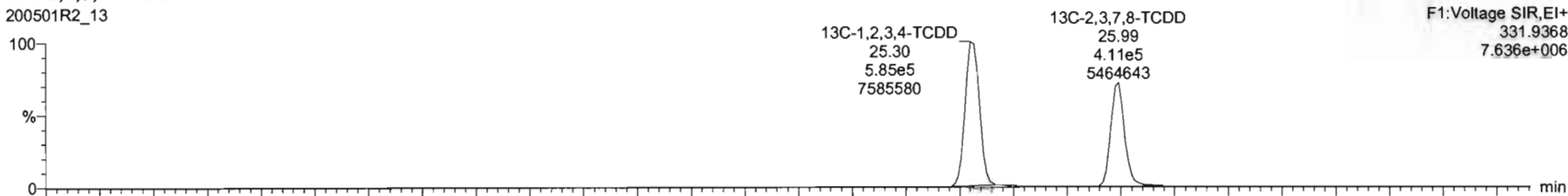


200501R2\_13

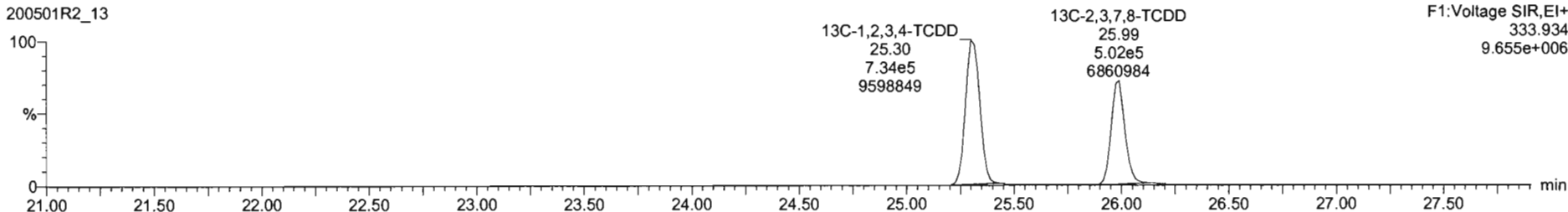


13C-2,3,7,8-TCDD

200501R2\_13



200501R2\_13



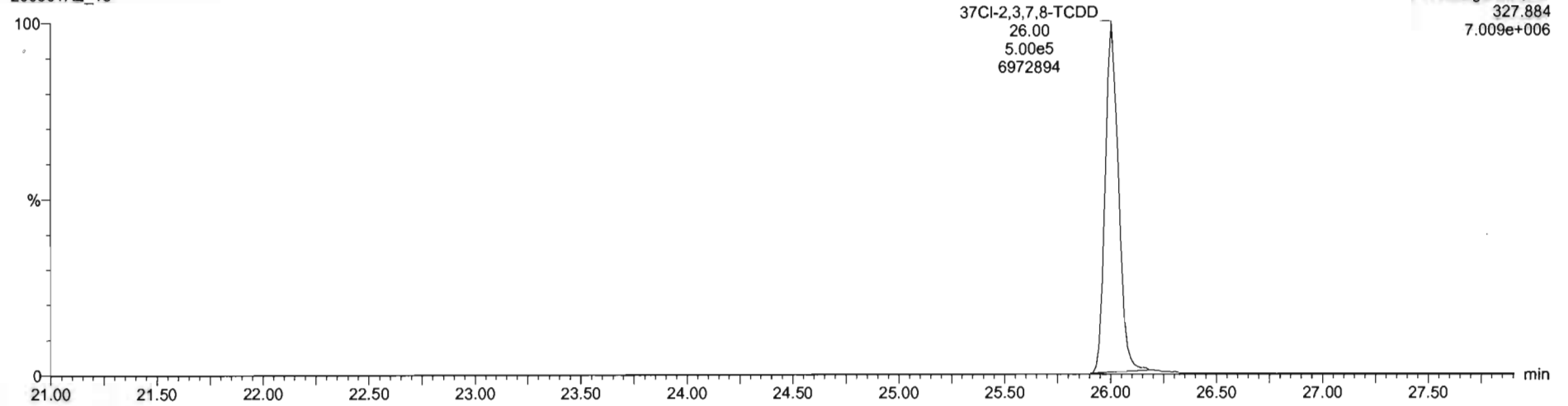
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Name: 200501R2\_13, Date: 02-May-2020, Time: 00:37:36, ID: 2000927-12 PDI-152SC-A-09-10-200421 12.9, Description: PDI-152SC-A-09-10-200421

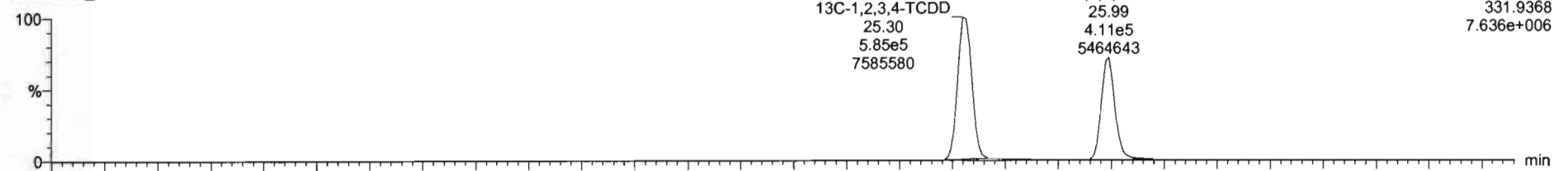
**37Cl-2,3,7,8-TCDD**

200501R2\_13

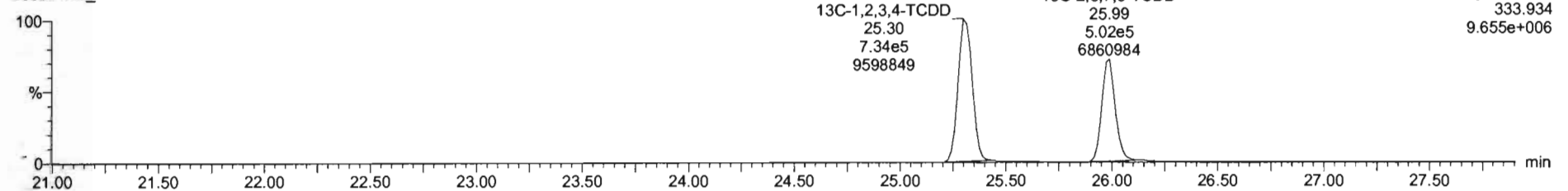


**13C-1,2,3,4-TCDD**

200501R2\_13



200501R2\_13



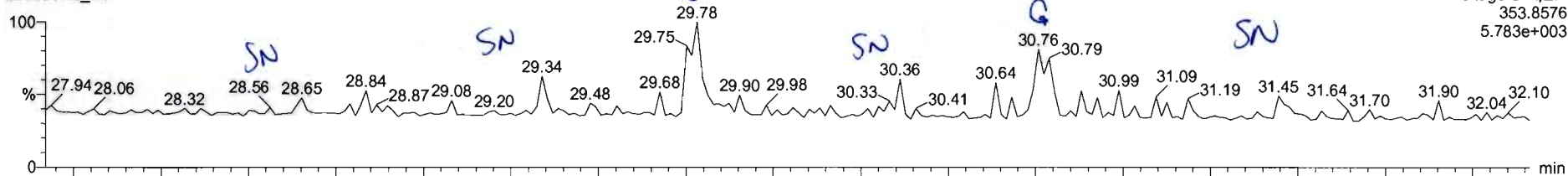
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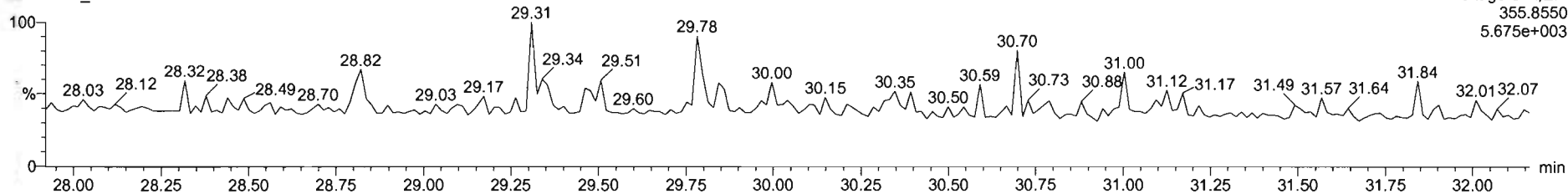
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1,2,3,7,8-PeCDD

200501R2\_13

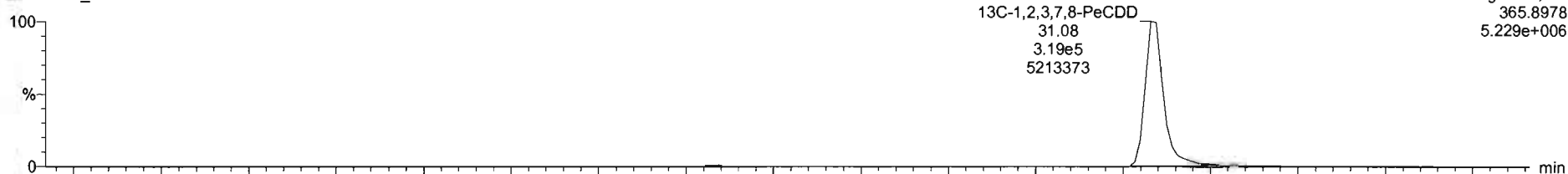


200501R2\_13

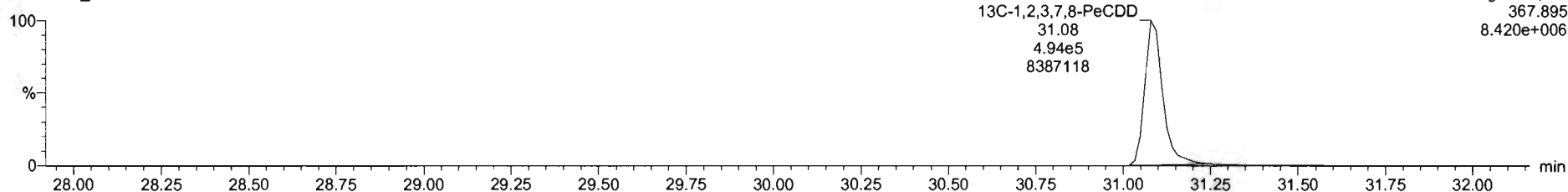


13C-1,2,3,7,8-PeCDD

200501R2\_13



200501R2\_13





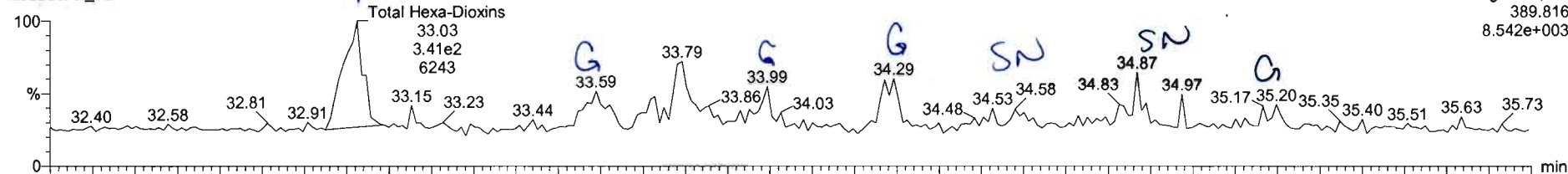
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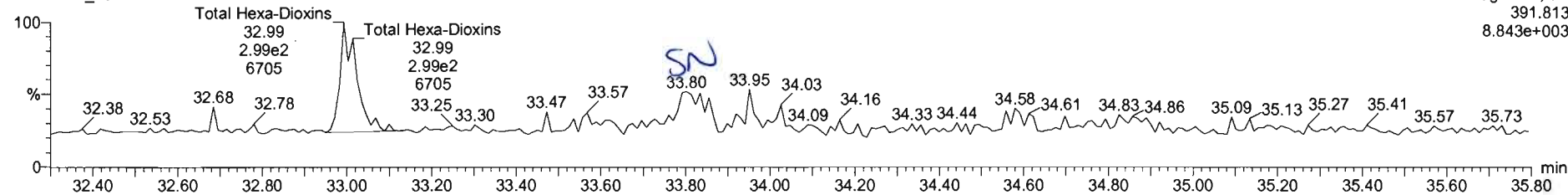
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1,2,3,4,7,8-HxCDD

200501R2\_13

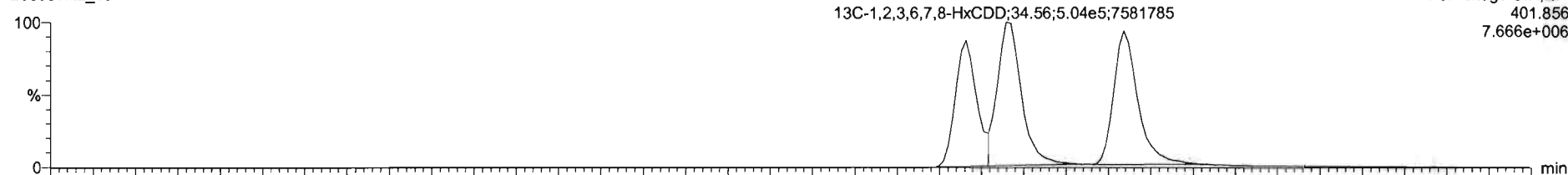


200501R2\_13

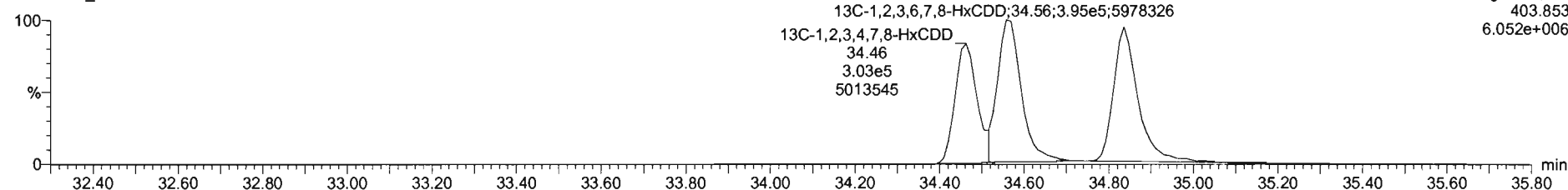


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200501R2\_13

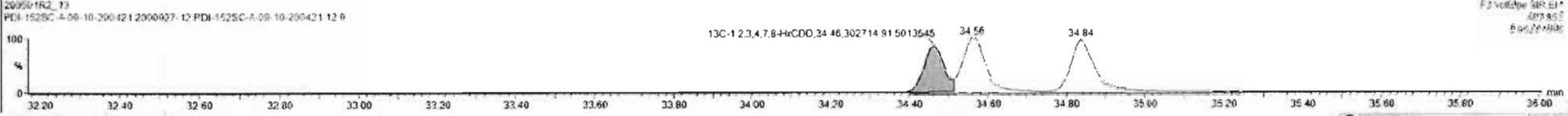
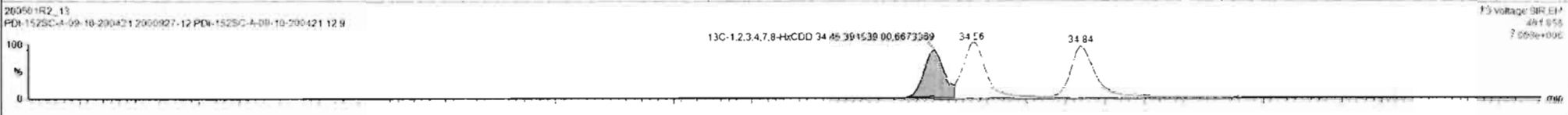
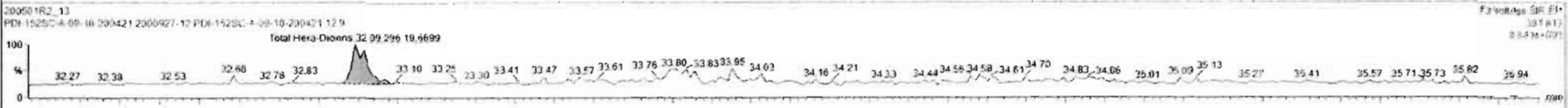
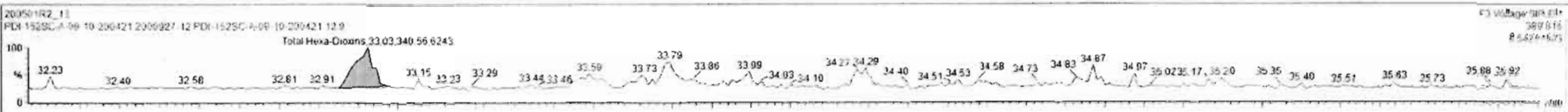


200501R2\_13



Name	Resp	RA	n/y	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.068					0.0524	
40 Total Penta-Dioxins				0.9425	10.068					0.0282	
41 Total Hexa-Dioxins				0.9145	10.068			0.170		0.0587	0.170
42 Total Hepta-Dioxins				0.8976	10.068			1.25		0.0952	1.25
43 Total Tetra-Furans				0.7871	10.068					0.0191	

Name	RT	n1 Resp	n2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.03	3.406e2	2.962e2	1.15	NO	0.17040	0.17040



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Dataset: Untitled

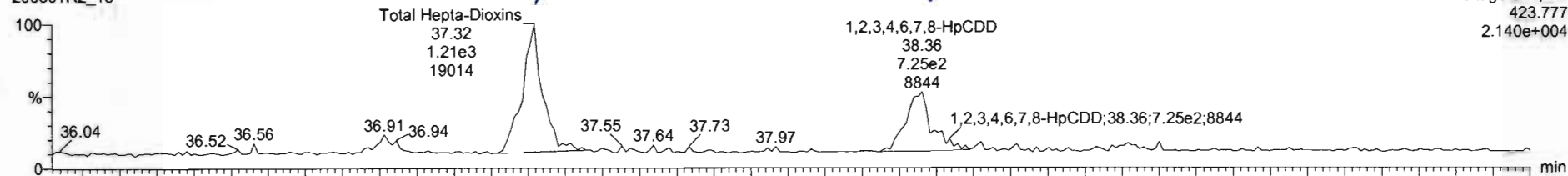
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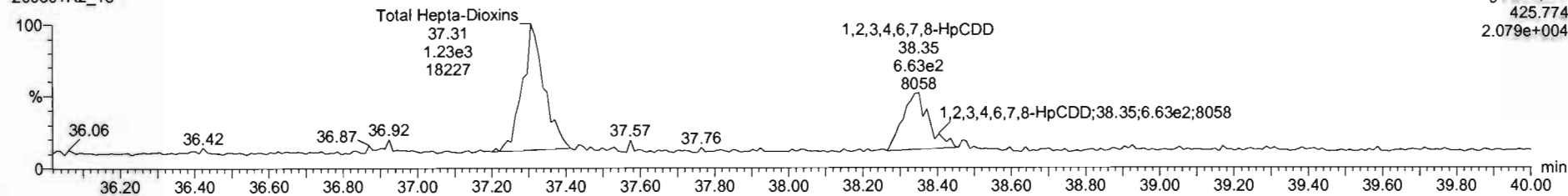
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1,2,3,4,6,7,8-HpCDD

200501R2\_13

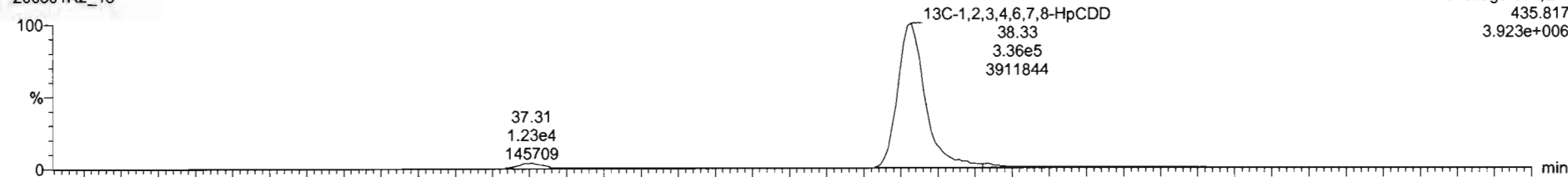


200501R2\_13

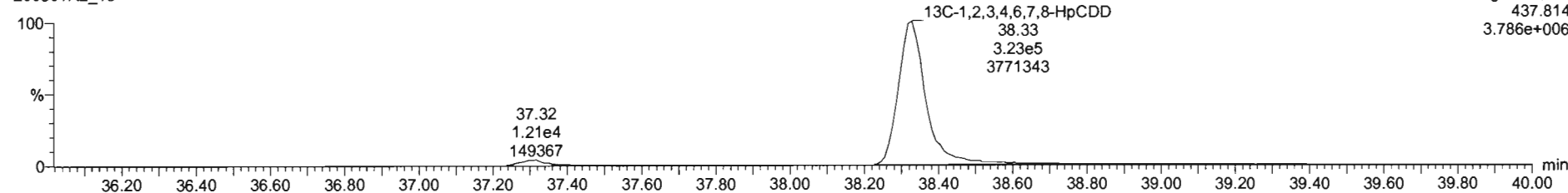


13C-1,2,3,4,6,7,8-HpCDD

200501R2\_13

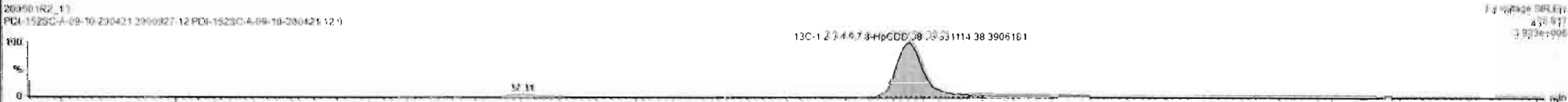


200501R2\_13



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.068					0.0524	
40 Total Penta-Dioxins				0.9425	10.068					0.0283	
41 Total Hexa-Dioxins				0.9145	10.068			0.170		0.0687	0.170
42 Total Hepta-Dioxins				0.6979	10.068			1.27		0.0950	1.27
43 Total Tetra-Furans				0.7871	10.068					0.0191	

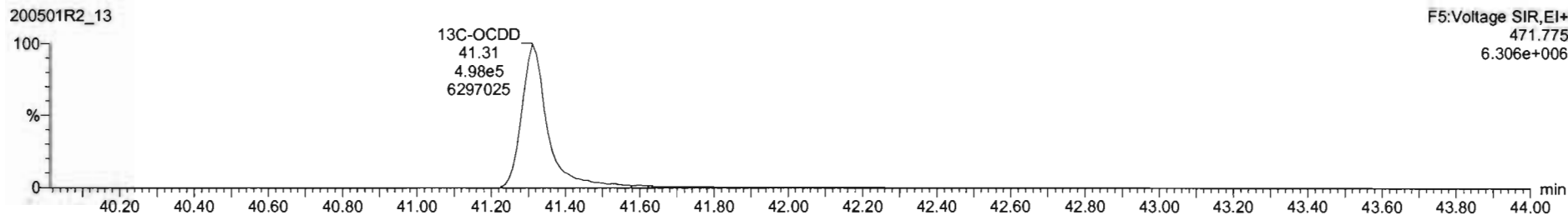
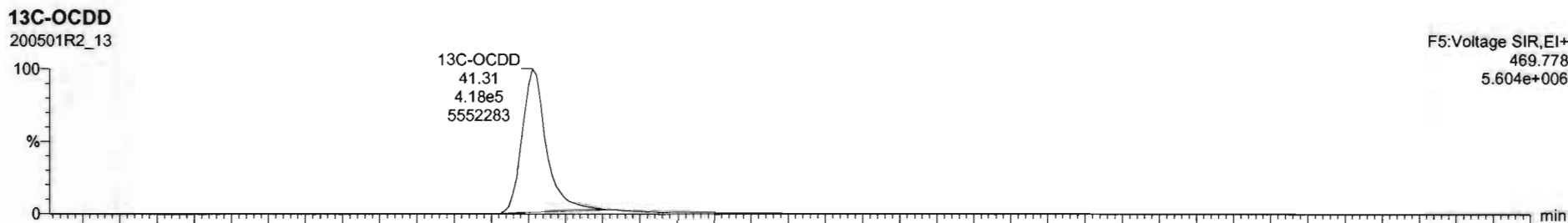
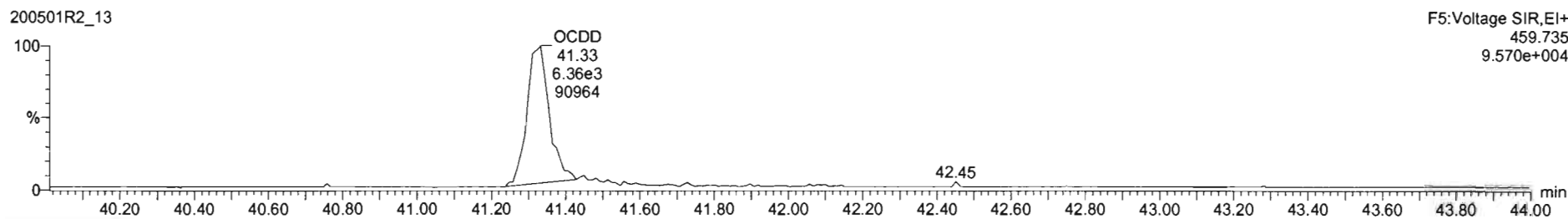
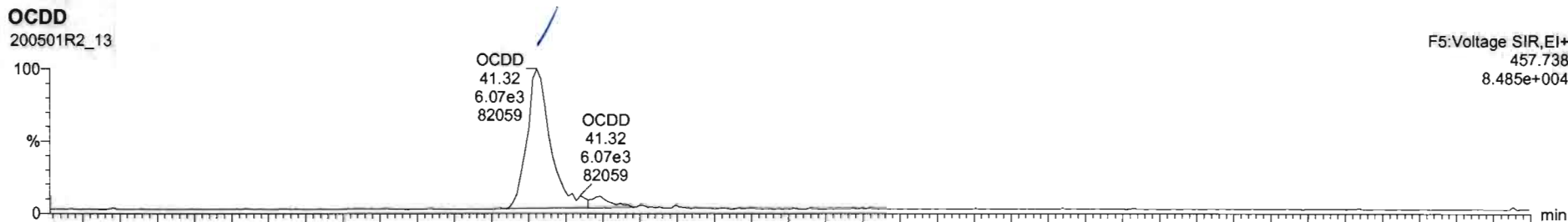
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.36	6.667e2	6.414e2	1.04	NO	0.44822	0.44822
2 Total Hepta-Dioxins	37.32	1.202e3	1.205e3	1.00	NO	0.82463	0.82463



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Name: 200501R2\_13, Date: 02-May-2020, Time: 00:37:36, ID: 2000927-12 PDI-152SC-A-09-10-200421 12.9, Description: PDI-152SC-A-09-10-200421



#	Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	1.26e4	0.90	NO	0.9335	10.068	41.32	1.000	5.93		0.143	5.93
8	2,3,7,8-TCDF			NO	0.7871	10.068					0.0500	
9	1,2,3,7,8-PeCDF			NO	0.9102	10.068					0.0414	
10	2,3,4,7,8-PeCDF			NO	0.9664	10.068					0.0400	
11	1,2,3,4,7,8-hxCDF			NO	0.8782	10.068					0.0419	

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

200501R2\_13 PDI-152SC-A-09-10-200421 2000927-12 PDI-152SC-A-09-10-200421 12.9 F5 Voltage SIR E1+ 457.736 8.485e-004



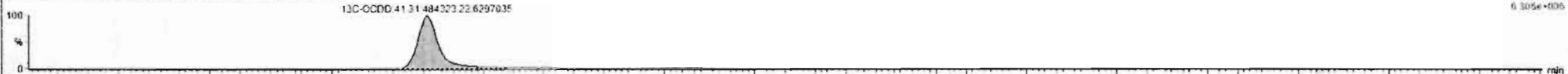
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200501R2\_13 PDI-152SC-A-09-10-200421 2000927-12 PDI-152SC-A-09-10-200421 12.9 F5 Voltage SIR E1+ 469.776 5.804e-005



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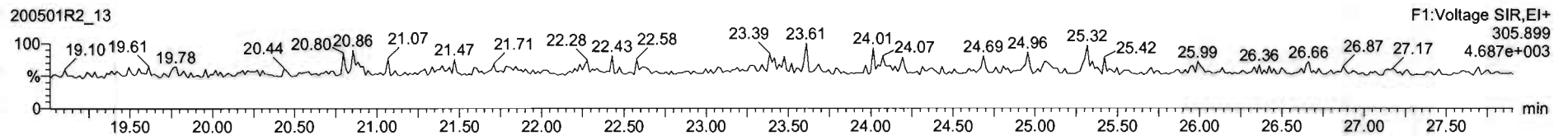
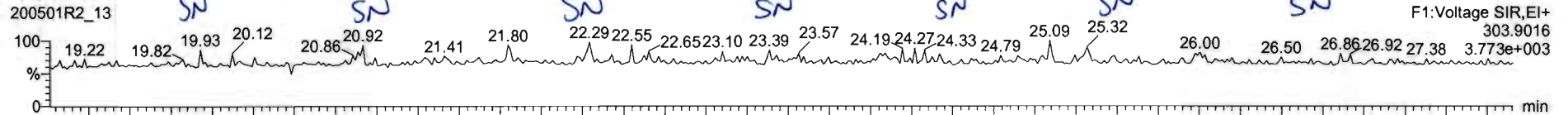


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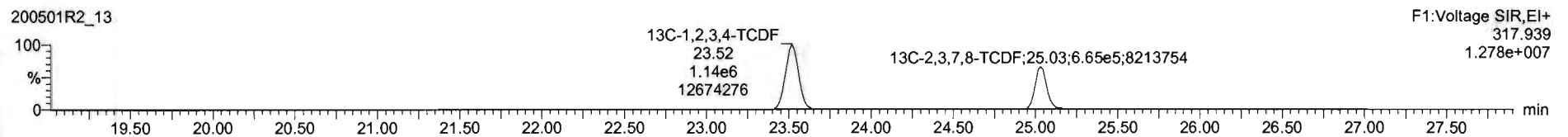
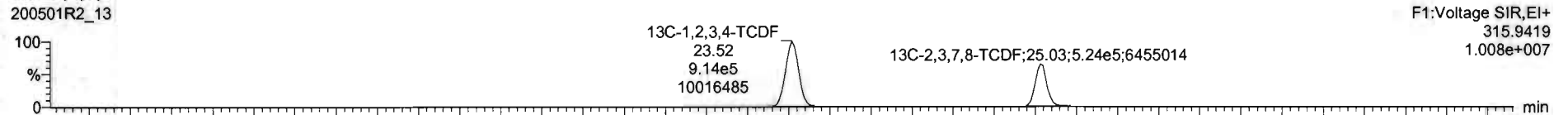
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Name: 200501R2\_13, Date: 02-May-2020, Time: 00:37:36, ID: 2000927-12 PDI-152SC-A-09-10-200421 12.9, Description: PDI-152SC-A-09-10-200421

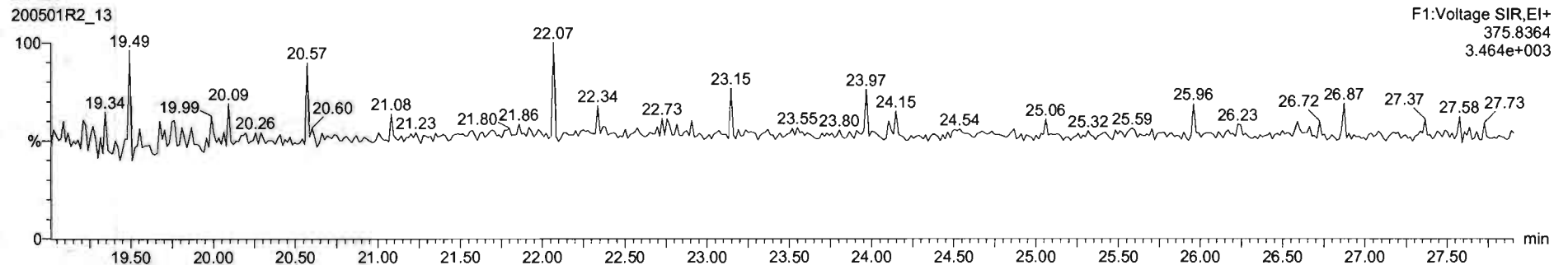
**2,3,7,8-TCDF**



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



**DPE1**



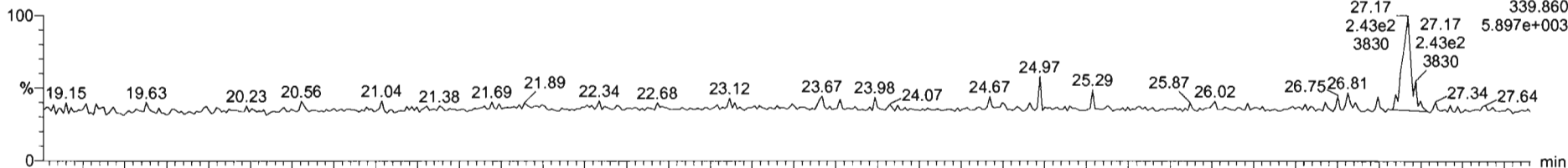
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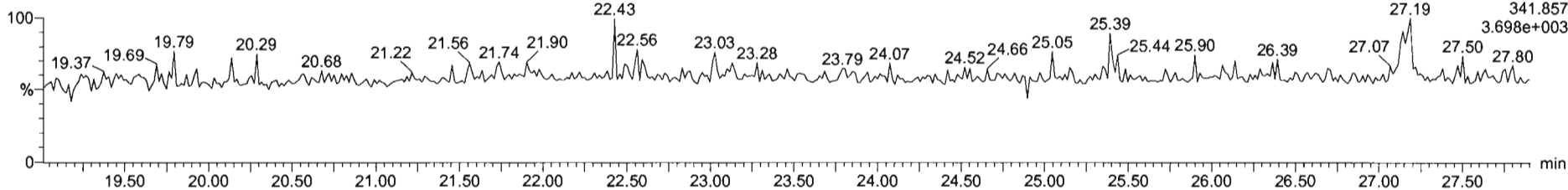
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1st Func. Penta-Furans

200501R2\_13

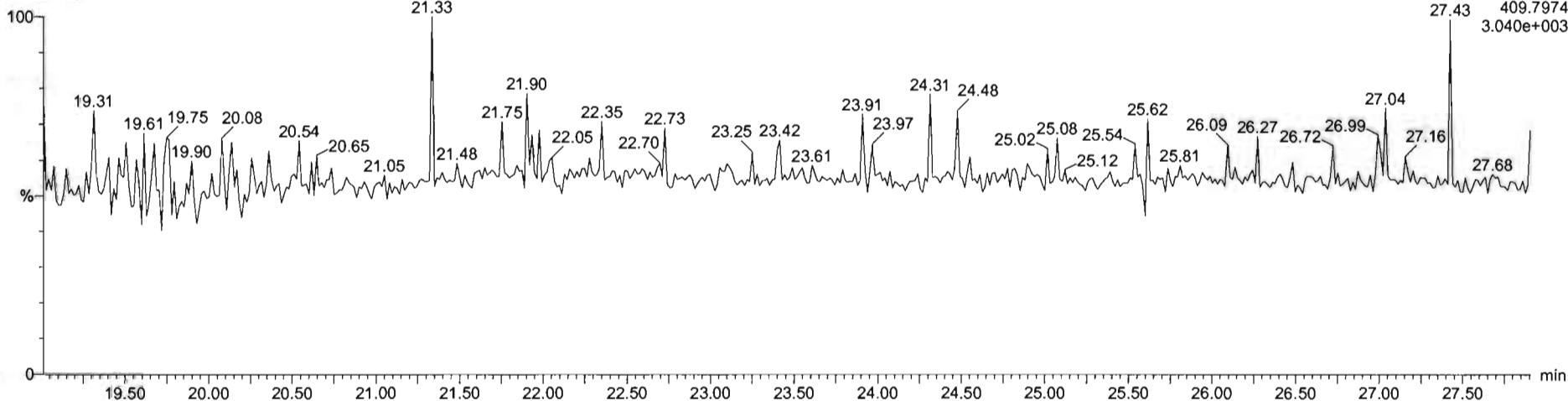


200501R2\_13



DPE6

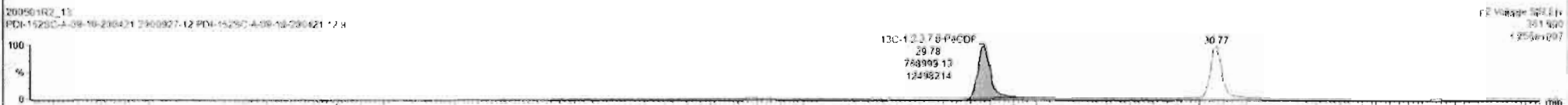
200501R2\_13





#	Name	Resp	RA	n/y	RRF	wt/col	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.060					0.0524	
40	Total Penta-Dioxins				0.6425	10.068					0.0262	
41	Total Hexa-Dioxins				0.5145	10.068			0.170		0.0567	0.170
42	Total Hepta-Dioxins				0.6970	10.068			1.27		0.0958	1.27
43	Total Tetra-Furans				0.7871	10.068					0.0191	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1st Func. Penta-Furans	27.17	2.060e2	1.129e2	1.81	YES	0.052827	0.00000

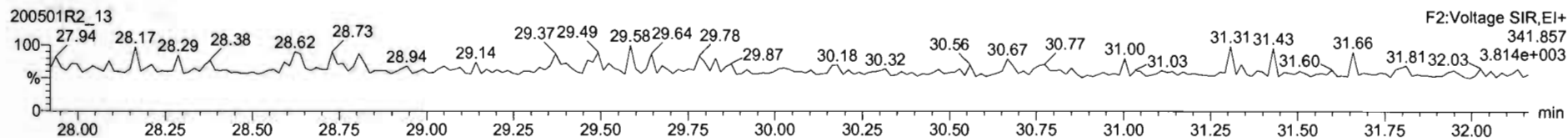
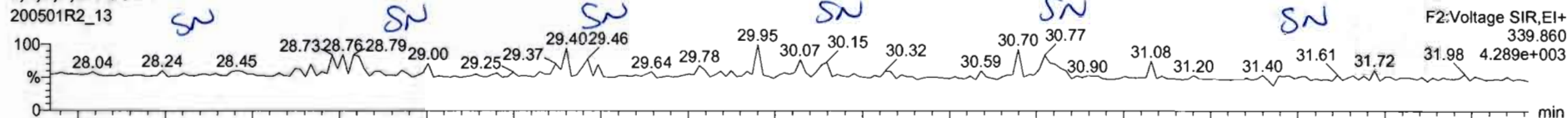


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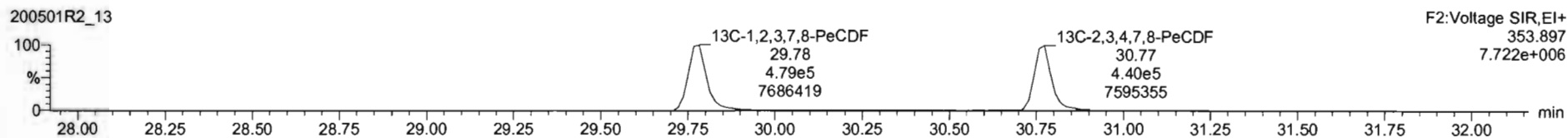
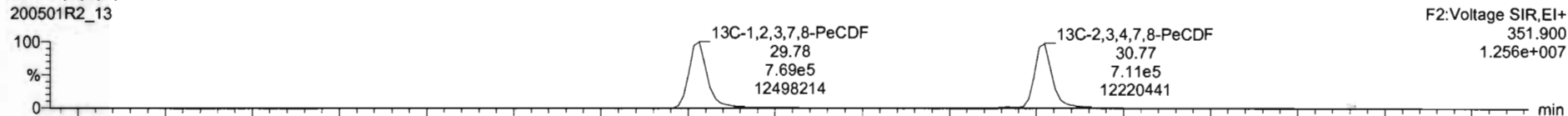
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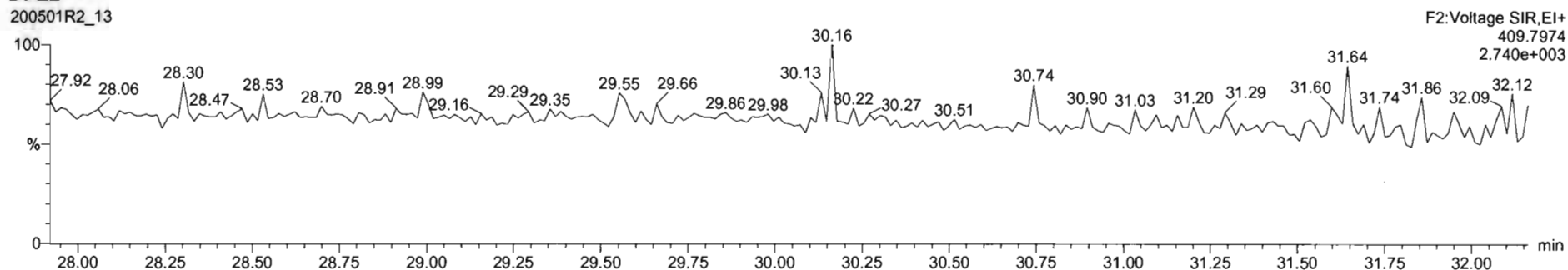
**1,2,3,7,8-PeCDF**



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



**DPE2**

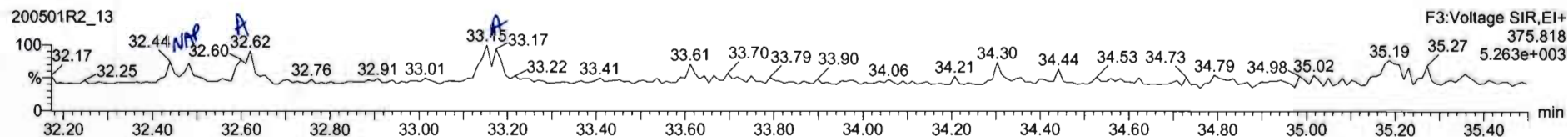
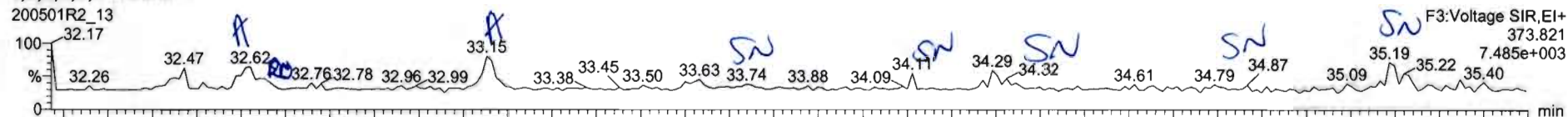


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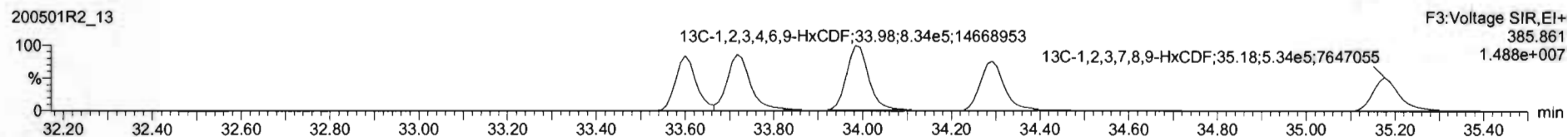
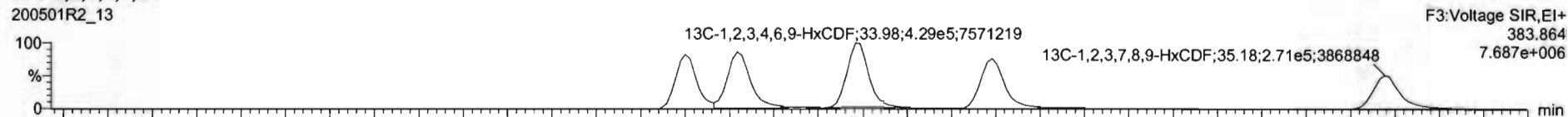
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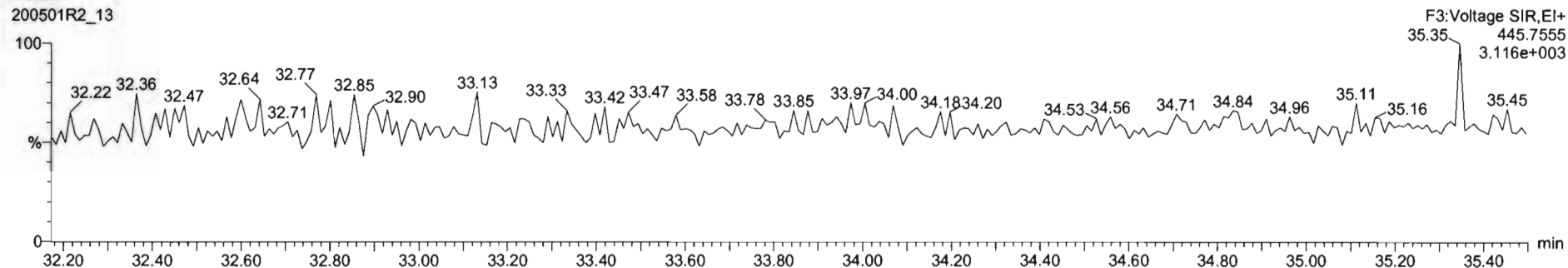
1,2,3,4,7,8-HxCDF



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

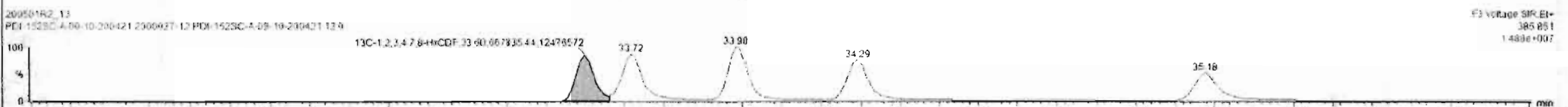
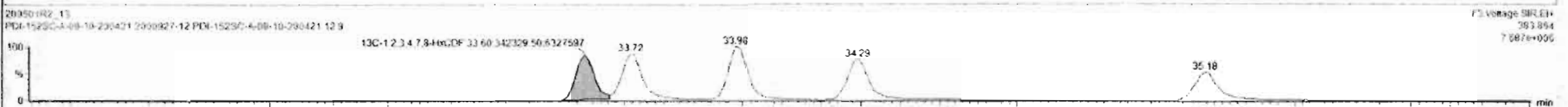
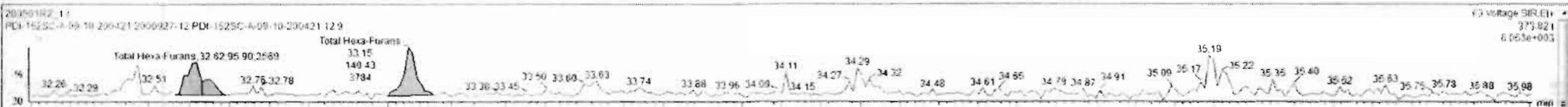


DPE3



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.068					0.0158	
46 Total Hexa-Furans				0.9217	10.068			0.0560		0.0268	0.188
47 Total Hexa-Furans				0.8712	10.068			0.142		0.0551	0.142
48 PK1											
49 PK2											

Name	RT	m1 Reso	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.82	9.590e1	8.466e1	1.13	NO	0.038496	0.00000
2 Total Hexa-Furans	32.64	4.825e1	2.305e1	2.09	YES	0.011897	0.00000
3 Total Hexa-Furans	33.15	1.404e2	1.222e2	1.15	NO	0.055505	0.055505

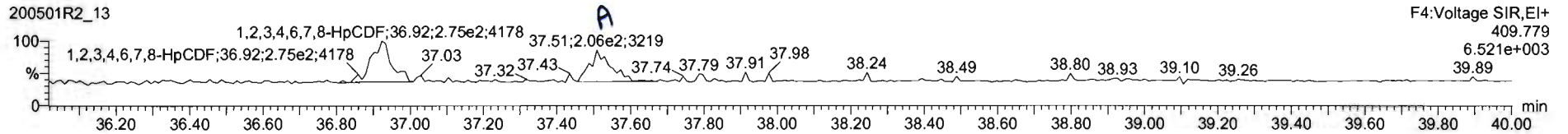
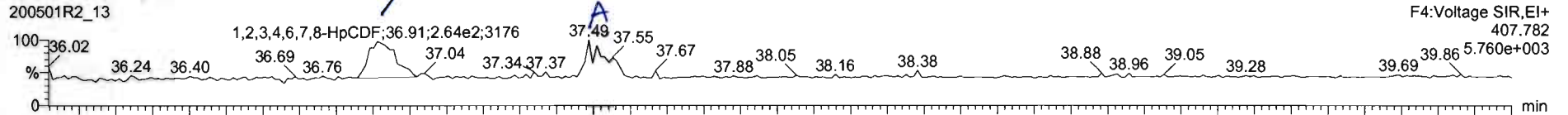


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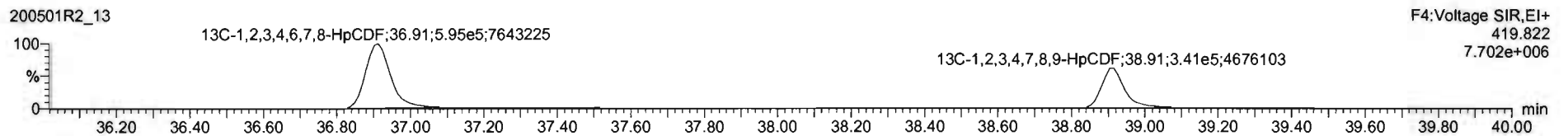
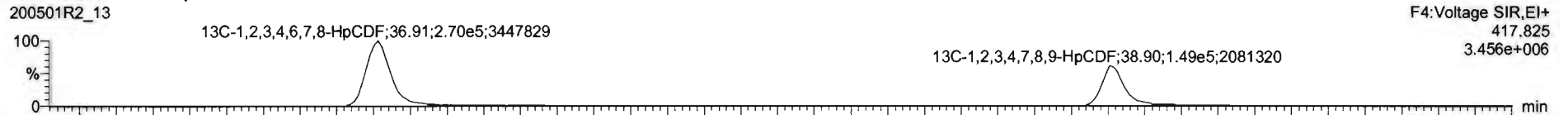
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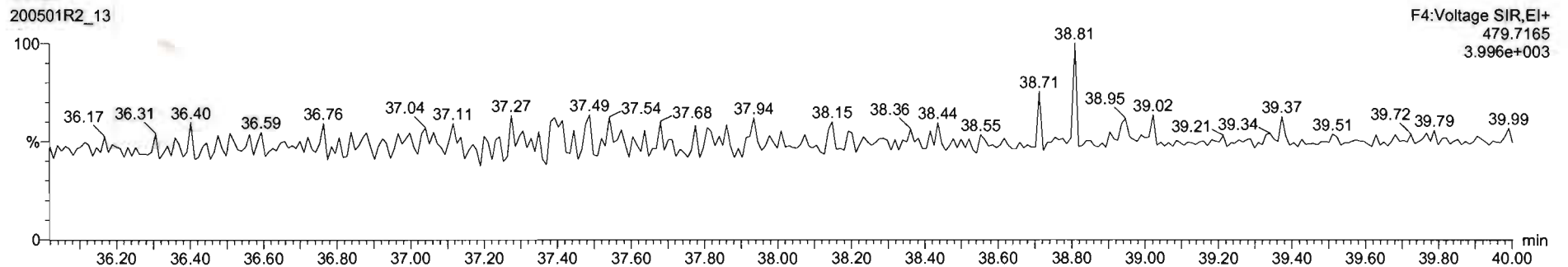
1,2,3,4,6,7,8-HpCDF



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

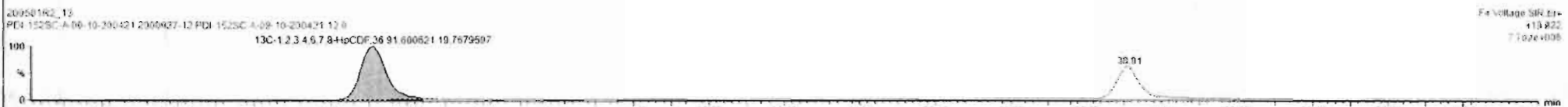
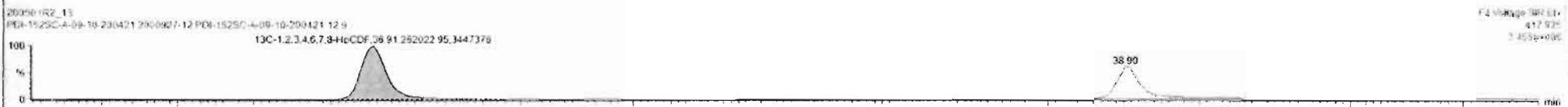
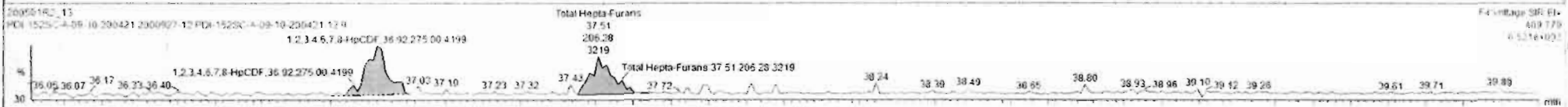
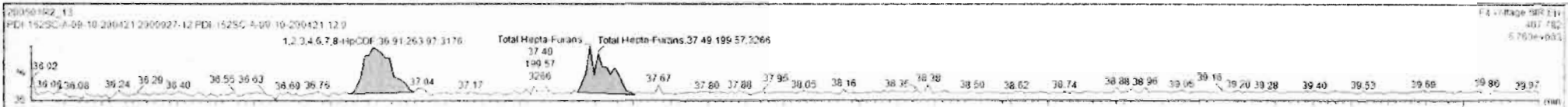


DPE4



Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.068					0.0196	
46 Total Hexa-Furans				0.9217	10.068			0.0560		0.0265	0.105
47 Total Hepta-Furans				0.8712	10.068			0.279		0.2544	0.279
48 PFK1											
49 PFK2											

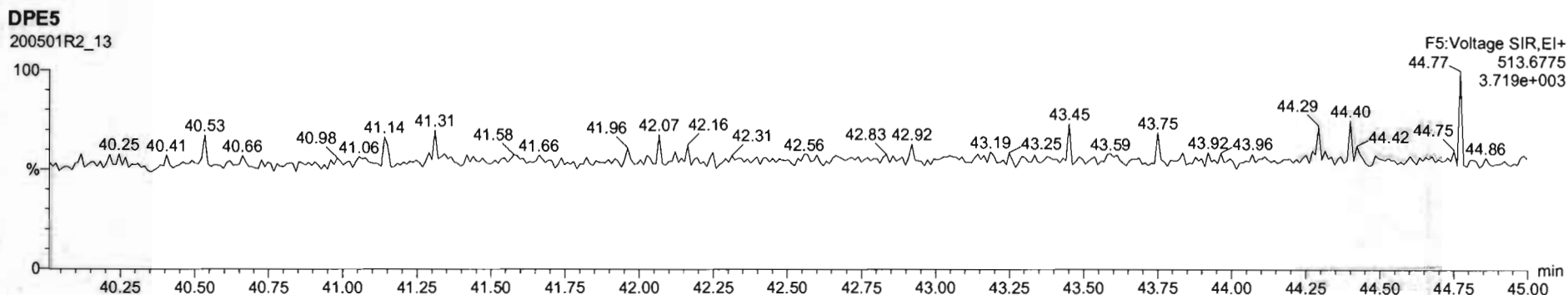
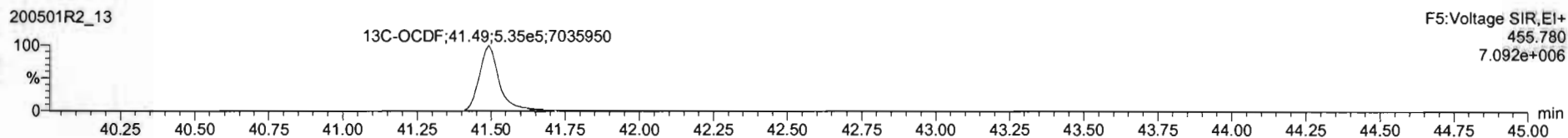
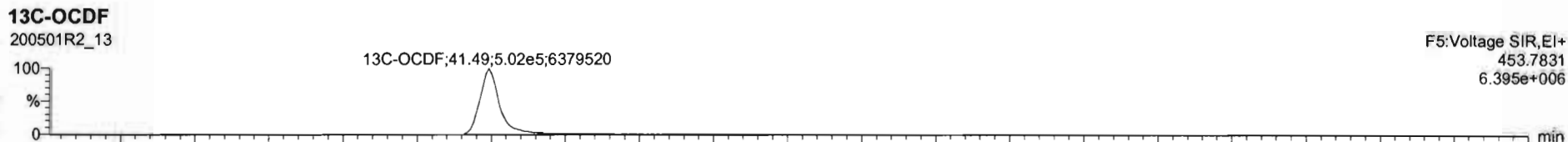
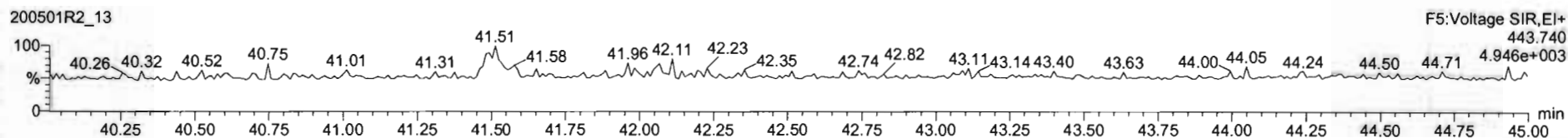
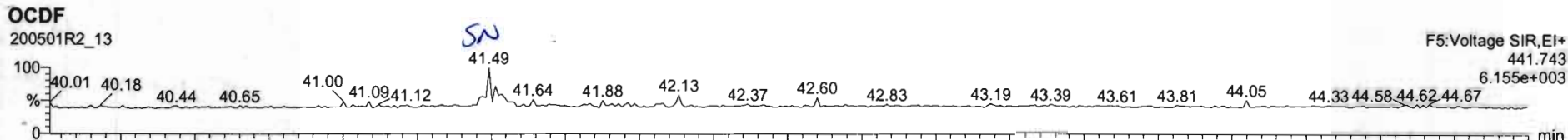
Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.91	2.640e2	2.750e2	0.56	RD	0.14248	0.14246
2 Total Hepta-Furans	37.49	1.956e2	2.063e2	0.57	RD	0.13661	0.13691



Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

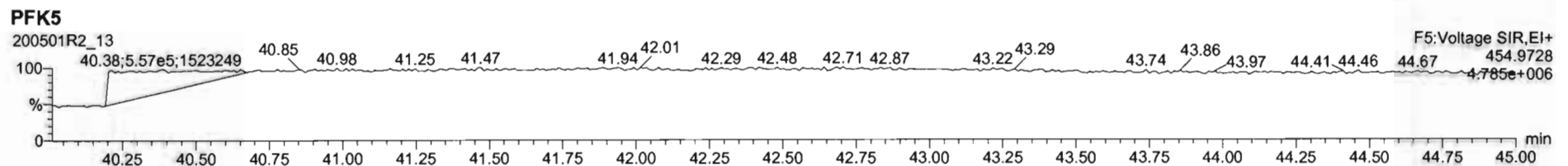
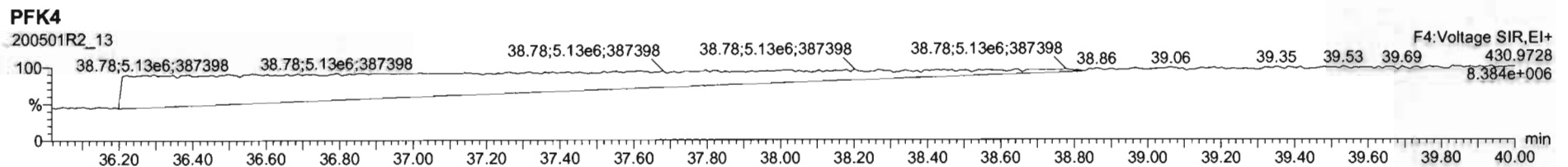
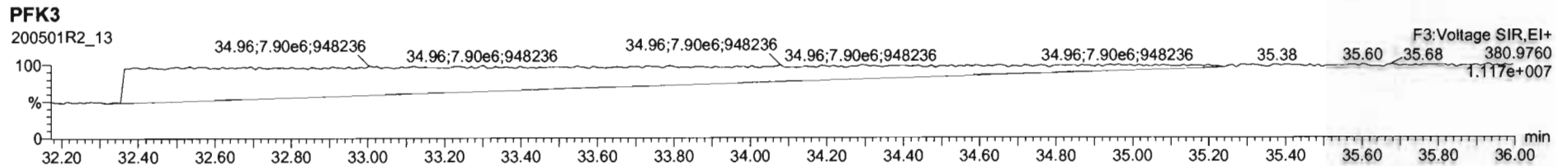
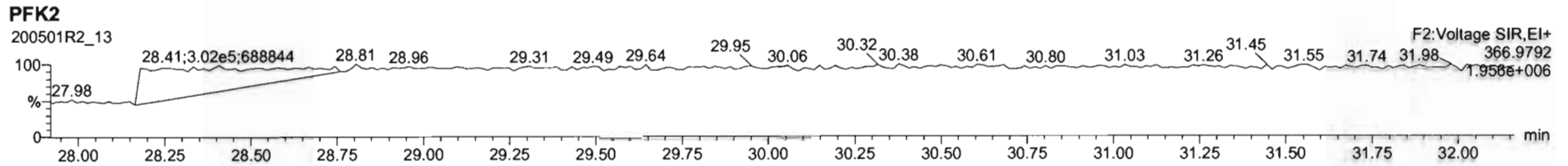
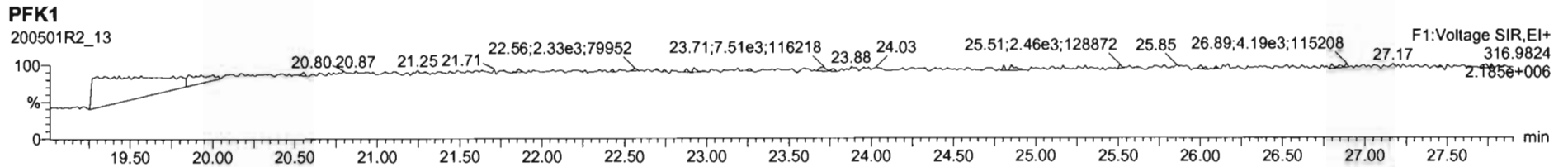
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Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_13, Date: 02-May-2020, Time: 00:37:36, ID: 2000927-12 PDI-152SC-A-09-10-200421 12.9, Description: PDI-152SC-A-09-10-200421





Dataset: U:\VG12.PRO\Results\200506R1\200506R1-6.qld

Last Altered: Wednesday, May 06, 2020 2:12:38 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 2:18:25 PM Pacific Daylight Time

*GPA 05/06/2020*

*CT 05/07/2020*

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

Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.028	25.991		1.001				0.0817	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.028	31.101		1.001				0.200	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.028	34.462		1.000				0.167	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.028	34.559		1.000				0.172	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.028	34.846		1.000				0.205	
6	6 1,2,3,4,6,7,8-HpCDD	1.16e3	1.14	NO	0.898	10.028	38.340	38.34	1.000	1.000	0.62395		0.182	0.624
7	7 OCDD	5.94e3	0.93	NO	0.933	10.028	41.322	41.33	1.000	1.000	4.4530		0.125	4.45
8	8 2,3,7,8-TCDF			NO	0.787	10.028	25.042		1.001				0.0509	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.028	29.788		1.001				0.0850	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.028	30.790		1.001				0.0784	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.028	33.600		1.000				0.0703	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.028	33.727		1.000				0.0642	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.028	34.316		1.001				0.0754	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.028	35.176		1.000				0.131	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.028	36.949		1.001				0.0956	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.028	38.915		1.000				0.159	
17	17 OCDF			NO	0.802	10.028	41.503		1.000				0.147	
18	18 13C-2,3,7,8-TCDD	9.87e5	0.79	NO	1.16	10.028	25.954	25.96	1.026	1.027	172.25	86.4	0.247	
19	19 13C-1,2,3,7,8-PeCDD	8.31e5	0.63	NO	0.847	10.028	31.031	31.08	1.227	1.229	198.59	99.6	0.366	
20	20 13C-1,2,3,4,7,8-HxCDD	5.28e5	1.27	NO	0.750	10.028	34.463	34.45	1.014	1.014	189.66	95.1	0.640	
21	21 13C-1,2,3,6,7,8-HxCDD	6.80e5	1.26	NO	0.963	10.028	34.575	34.56	1.017	1.017	190.17	95.4	0.499	
22	22 13C-1,2,3,7,8,9-HxCDD	6.05e5	1.24	NO	0.838	10.028	34.844	34.84	1.025	1.025	194.43	97.5	0.573	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.14e5	1.05	NO	0.641	10.028	38.331	38.33	1.128	1.128	173.62	87.1	0.479	
24	24 13C-OCDD	5.70e5	0.89	NO	0.586	10.028	41.321	41.32	1.216	1.216	261.89	65.7	0.483	
25	25 13C-2,3,7,8-TCDF	1.20e6	0.77	NO	1.03	10.028	25.015	25.02	0.989	0.989	155.48	78.0	0.409	
26	26 13C-1,2,3,7,8-PeCDF	1.23e6	1.57	NO	0.845	10.028	29.724	29.77	1.176	1.177	194.84	97.7	0.602	
27	27 13C-2,3,4,7,8-PeCDF	1.15e6	1.61	NO	0.814	10.028	30.712	30.76	1.215	1.216	189.81	95.2	0.625	
28	28 13C-1,2,3,4,7,8-HxCDF	7.38e5	0.51	NO	1.00	10.028	33.603	33.60	0.989	0.989	197.71	99.1	0.704	
29	29 13C-1,2,3,6,7,8-HxCDF	9.29e5	0.51	NO	1.14	10.028	33.726	33.72	0.992	0.992	219.98	110	0.623	
30	30 13C-2,3,4,6,7,8-HxCDF	7.54e5	0.51	NO	1.02	10.028	34.293	34.28	1.009	1.009	198.61	99.6	0.692	
31	31 13C-1,2,3,7,8,9-HxCDF	5.46e5	0.51	NO	0.845	10.028	35.184	35.18	1.035	1.035	173.97	87.2	0.838	

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-6.qld

Last Altered: Wednesday, May 06, 2020 2:12:38 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:18:25 PM Pacific Daylight Time

Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	5.34e5	0.43	NO	0.771	10.028	36.913	36.91	1.086	1.086	186.31	93.4	0.449	
33	13C-1,2,3,4,7,8,9-HpCDF	2.69e5	0.43	NO	0.482	10.028	38.922	38.92	1.145	1.145	149.93	75.2	0.718	
34	13C-OCDF	5.81e5	0.90	NO	0.669	10.028	41.491	41.50	1.221	1.221	234.19	58.7	0.498	
35	37Cl-2,3,7,8-TCDD	3.81e5			1.10	10.028	25.984	25.99	1.028	1.028	70.221	88.0	0.0900	
36	13C-1,2,3,4-TCDD	9.86e5	0.76	NO	1.00	10.028	25.350	25.29	1.000	1.000	199.45	100	0.287	
37	13C-1,2,3,4-TCDF	1.49e6	0.79	NO	1.00	10.028	23.560	23.49	1.000	1.000	199.45	100	0.423	
38	13C-1,2,3,4,6,9-HxCDF	7.41e5	0.51	NO	1.00	10.028	34.000	33.98	1.000	1.000	199.45	100	0.708	
39	Total Tetra-Dioxins				0.947	10.028	24.620		0.000				0.0351	
40	Total Penta-Dioxins				0.942	10.028	29.960		0.000				0.110	
41	Total Hexa-Dioxins				0.915	10.028	33.635		0.000		0.28852		0.190	0.289
42	Total Hepta-Dioxins				0.898	10.028	37.640		0.000		1.5402		0.182	1.54
43	Total Tetra-Furans				0.787	10.028	23.610		0.000				0.0249	
44	1st Func. Penta-Furans				0.910	10.028	27.090		0.000				0.0170	
45	Total Penta-Furans				0.910	10.028	29.275		0.000				0.0463	
46	Total Hexa-Furans				0.922	10.028	33.555		0.000				0.0430	
47	Total Hepta-Furans				0.871	10.028	37.835		0.000				0.0751	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-6.qld

Last Altered: Wednesday, May 06, 2020 2:12:38 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:18:25 PM Pacific Daylight Time

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

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

Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	7.239e3	7.643e3	4.155e2	3.841e2	1.08	NO	7.995e2	0.28852	0.28852	0.190

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	1.007e4	1.371e4	8.058e2	9.004e2	0.89	NO	1.706e3	0.91630	0.91630	0.182
2	1,2,3,4,6,7,8-HpCDD	38.34	8.029e3	7.359e3	6.189e2	5.430e2	1.14	NO	1.162e3	0.62395	0.62395	0.182

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-6.qld

Last Altered: Wednesday, May 06, 2020 2:12:38 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:18:25 PM Pacific Daylight Time

Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

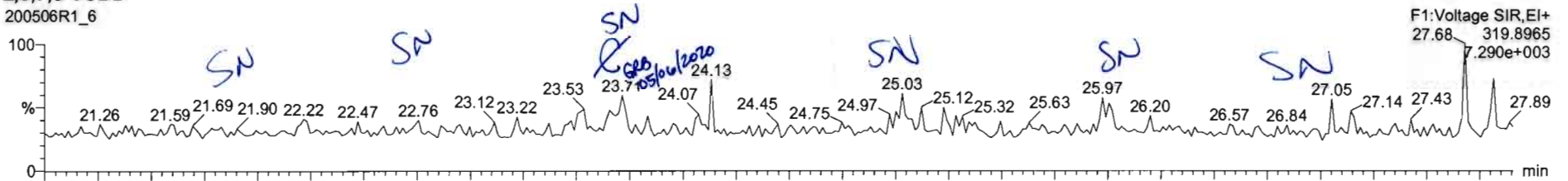
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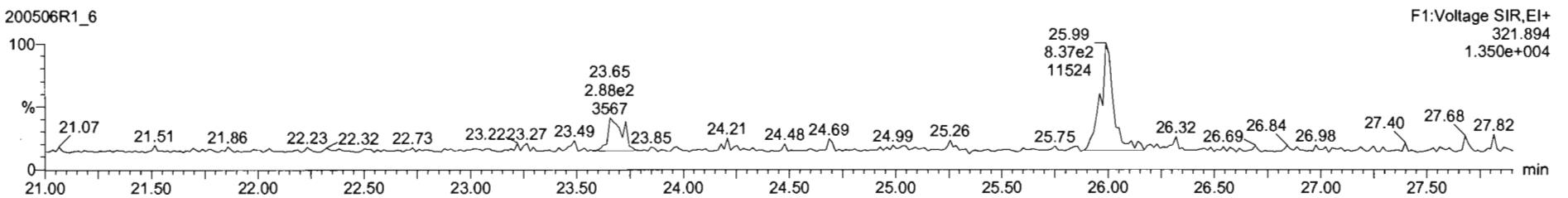
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Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

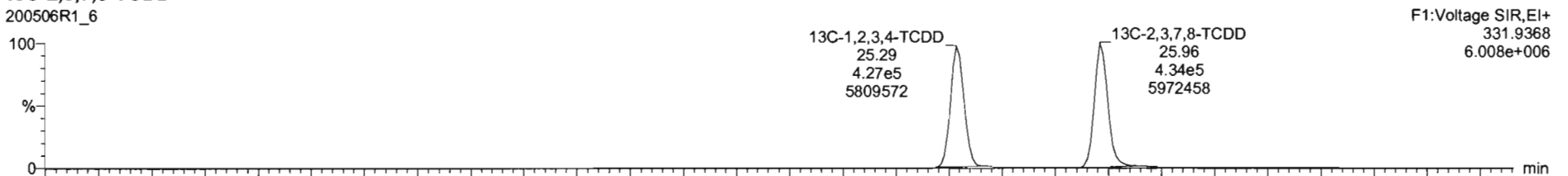
2,3,7,8-TCDD  
200506R1\_6



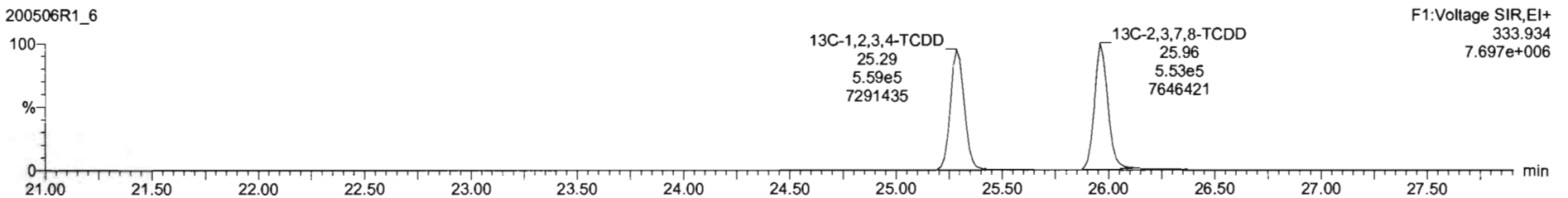
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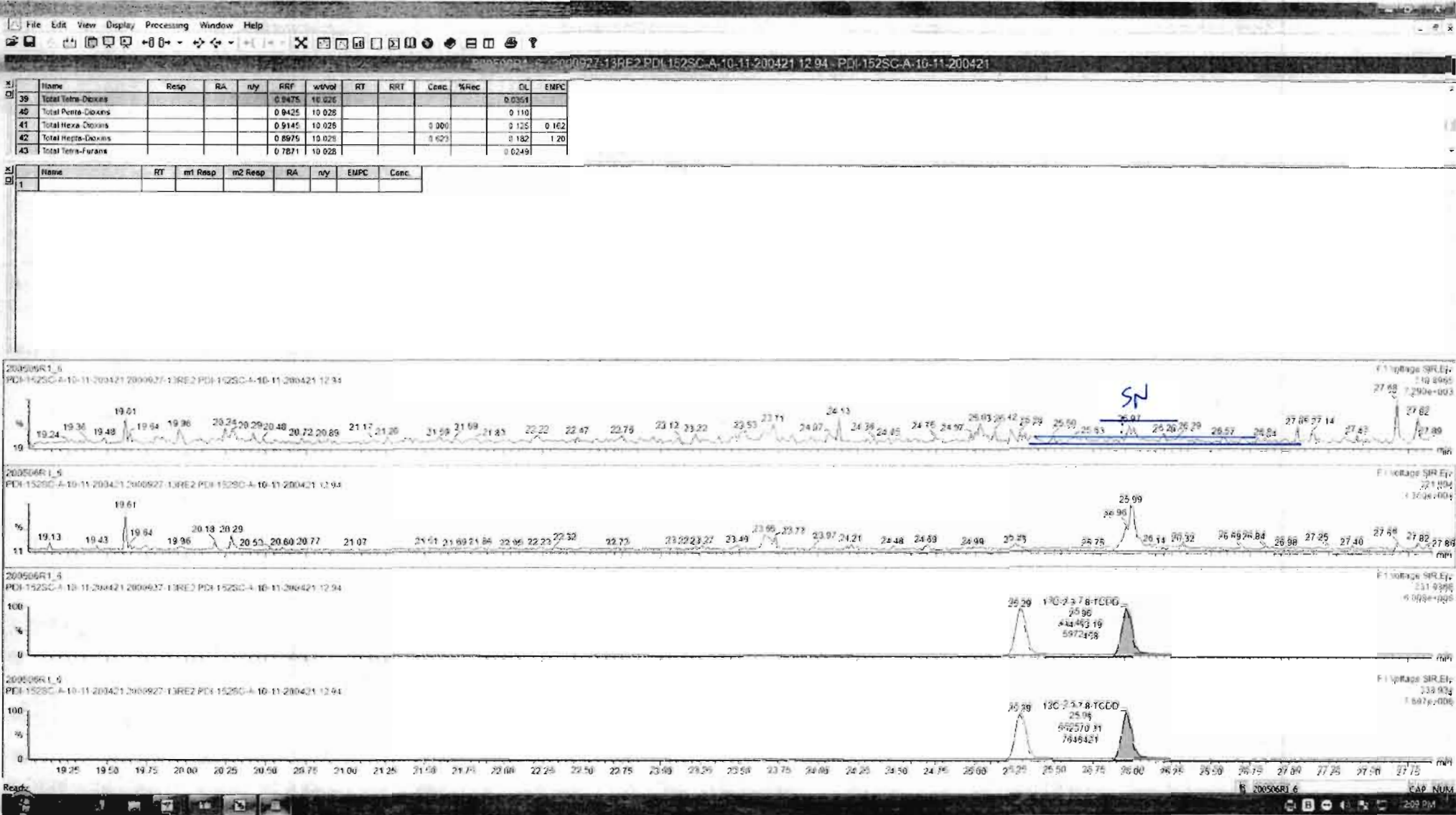


13C-2,3,7,8-TCDD  
200506R1\_6



200506R1\_6





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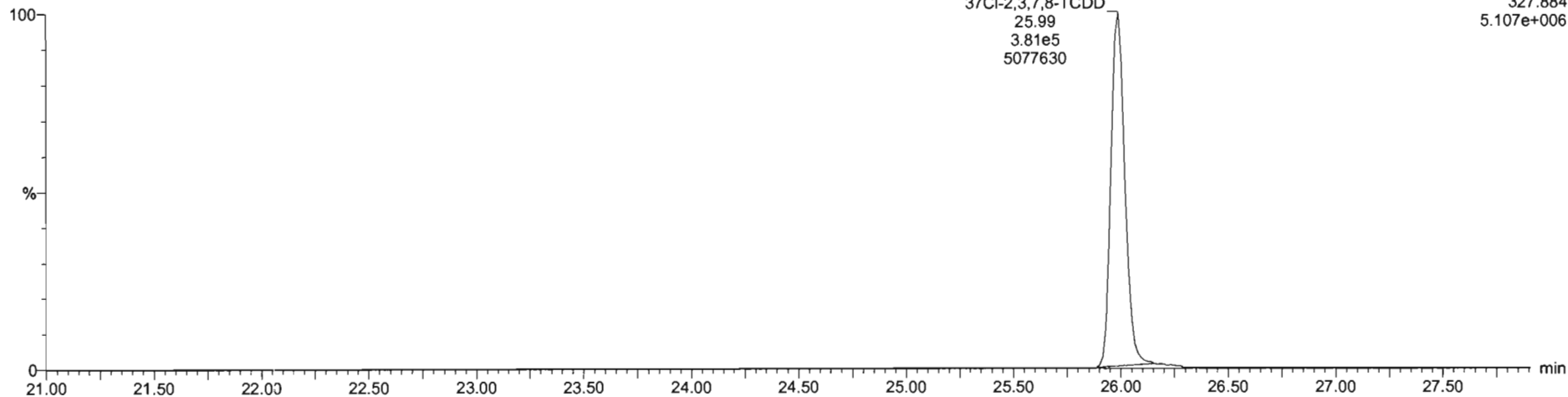
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Printed: Wednesday, May 06, 2020 12:38:38 PM Pacific Daylight Time

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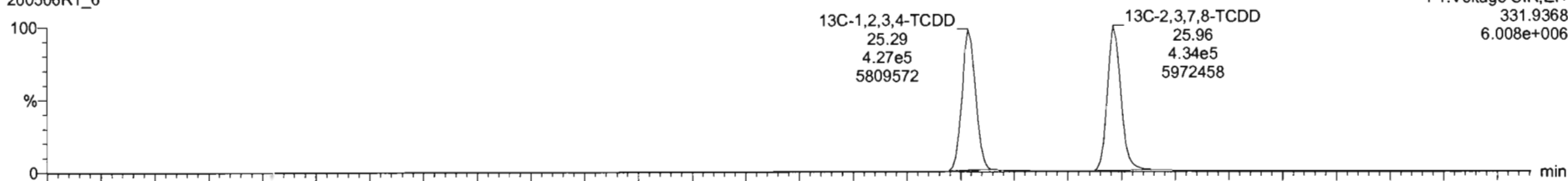
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200506R1\_6

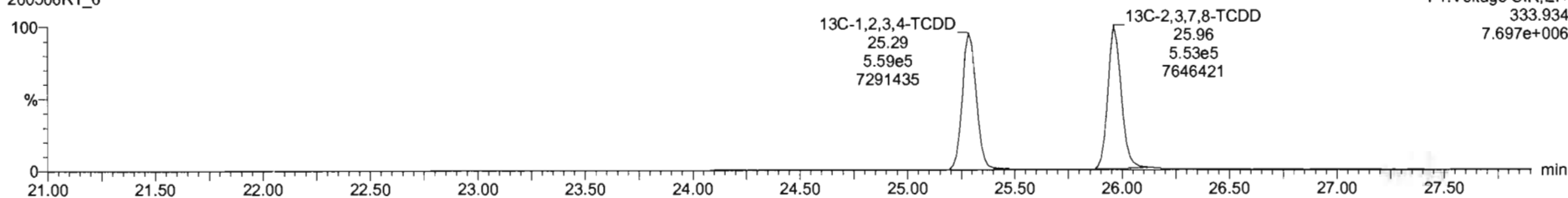


**13C-1,2,3,4-TCDD**

200506R1\_6



200506R1\_6



Dataset: Untitled

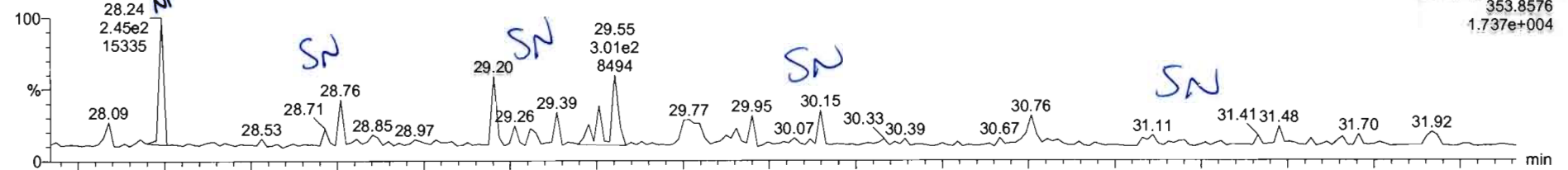
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Printed: Wednesday, May 06, 2020 12:38:38 PM Pacific Daylight Time

Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

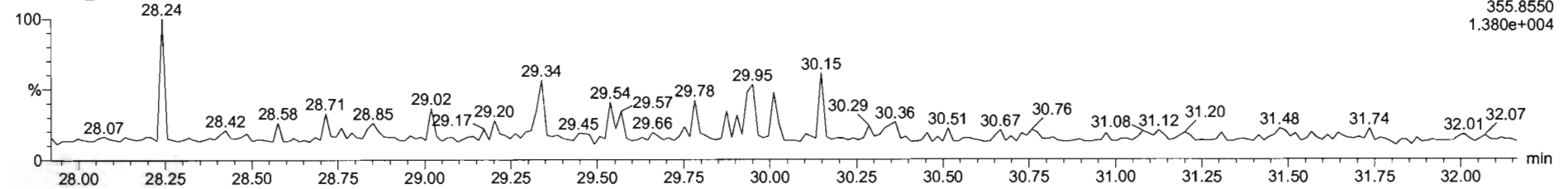
1,2,3,7,8-PeCDD

200506R1\_6



F2:Voltage SIR,EI+  
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1.737e+004

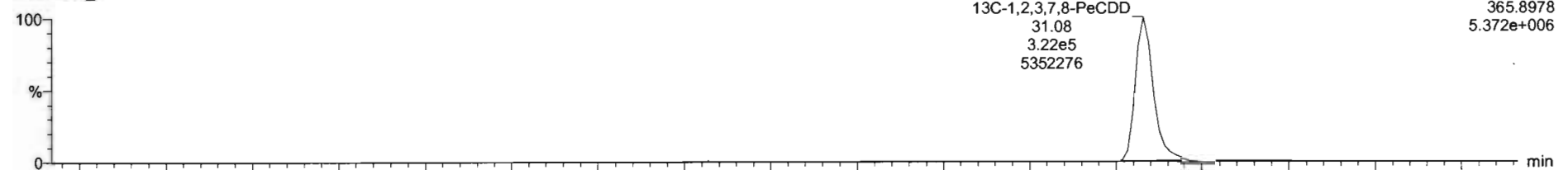
200506R1\_6



F2:Voltage SIR,EI+  
355.8550  
1.380e+004

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

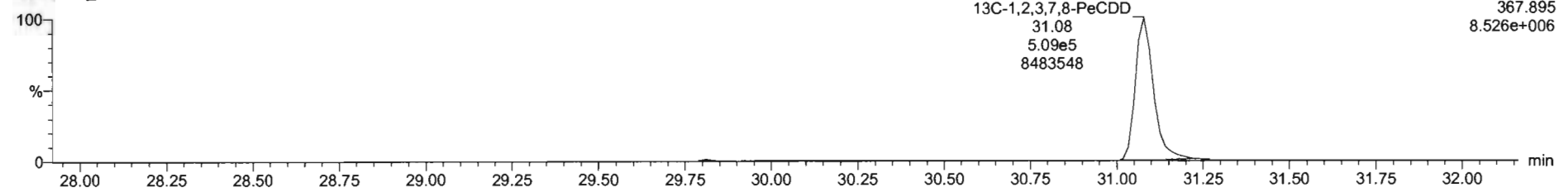
200506R1\_6



13C-1,2,3,7,8-PeCDD  
31.08  
3.22e5  
5352276

F2:Voltage SIR,EI+  
365.8978  
5.372e+006

200506R1\_6



13C-1,2,3,7,8-PeCDD  
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8483548

F2:Voltage SIR,EI+  
367.895  
8.526e+006



Dataset: Untitled

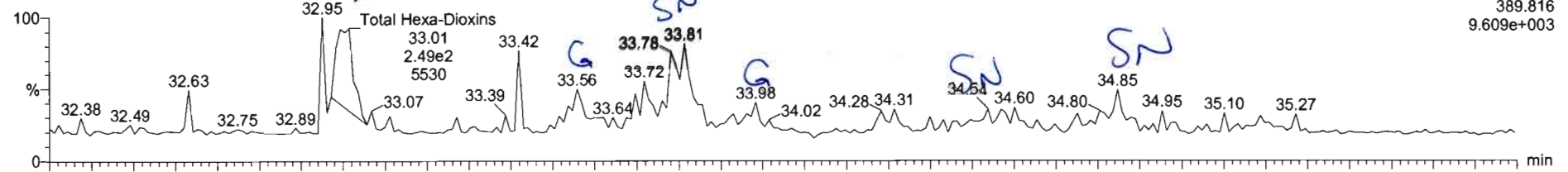
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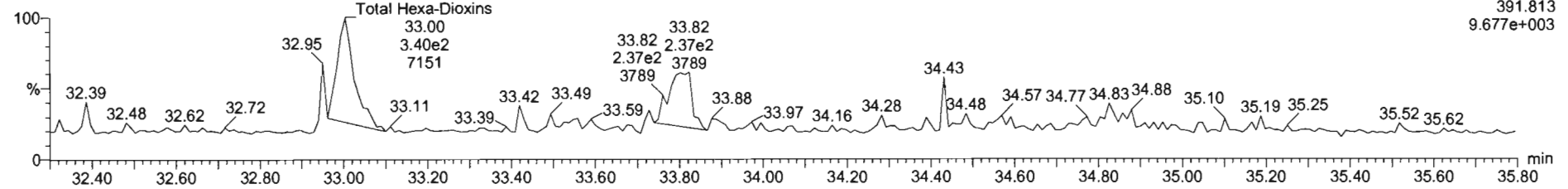
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1,2,3,4,7,8-HxCDD

200506R1\_6

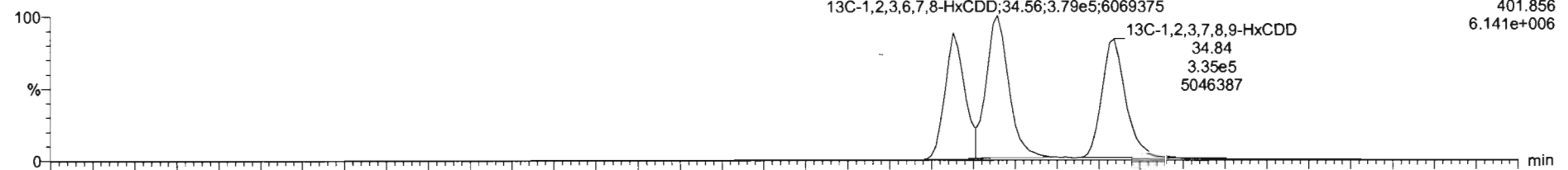


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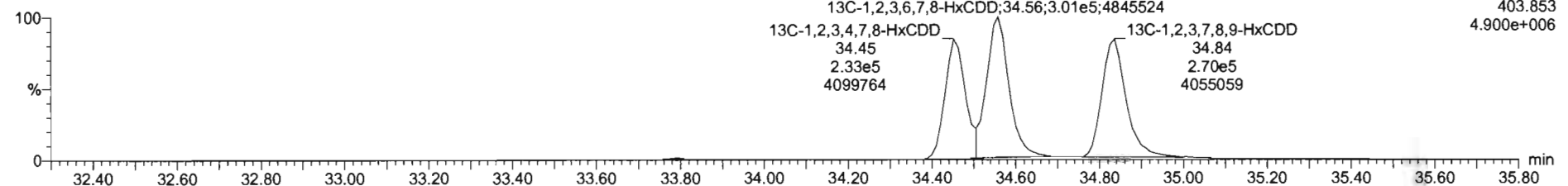


13C-1,2,3,4,7,8-HxCDD

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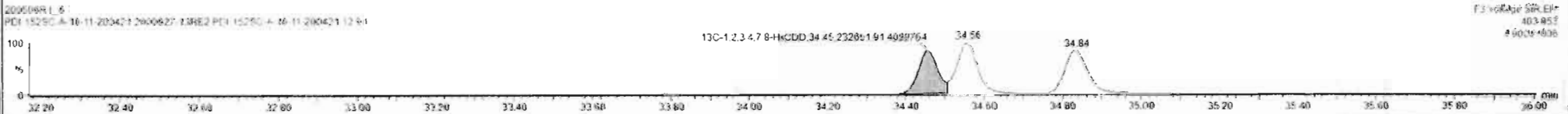
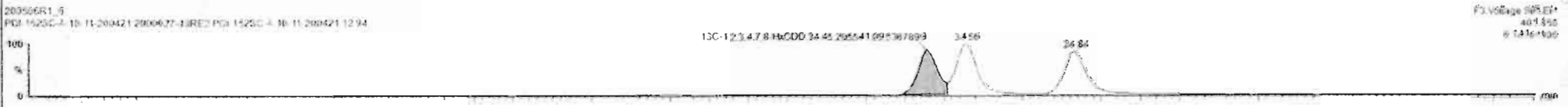
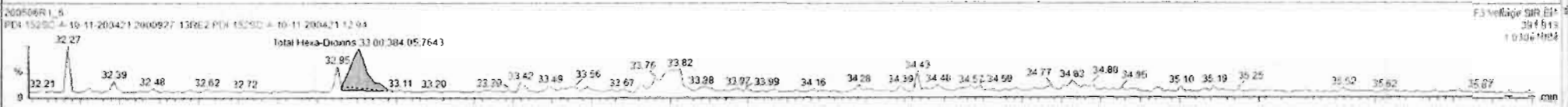
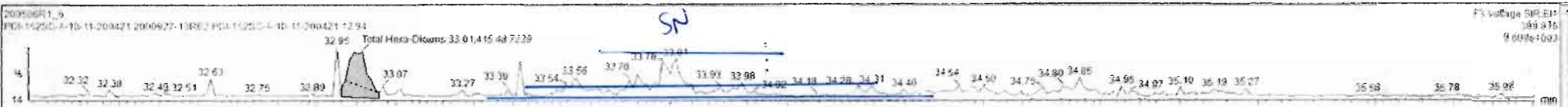


200506R1\_6



Name	Resp	RA	n/y	RR1	w/nd1	RT	RR2	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.028					0.0351	
40 Total Penta-Dioxins				0.9425	10.005					0.110	
41 Total Hexa-Dioxins				0.9145	10.028			0.209		0.190	0.229
42 Total Hepta-Dioxins				0.8979	10.028			0.623		0.182	1.20
43 Total Tetra-Furans				0.7871	10.028					0.0249	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.01	4.155e2	2.841e2	1.08	NO	0.28552	0.28552



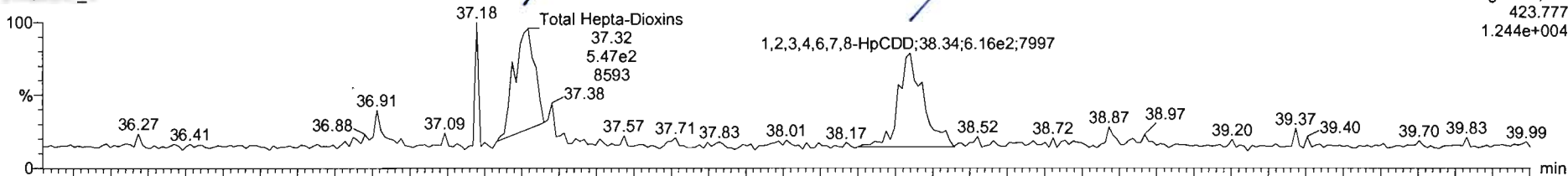
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Last Altered: Wednesday, May 06, 2020 12:37:53 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 12:38:38 PM Pacific Daylight Time

Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

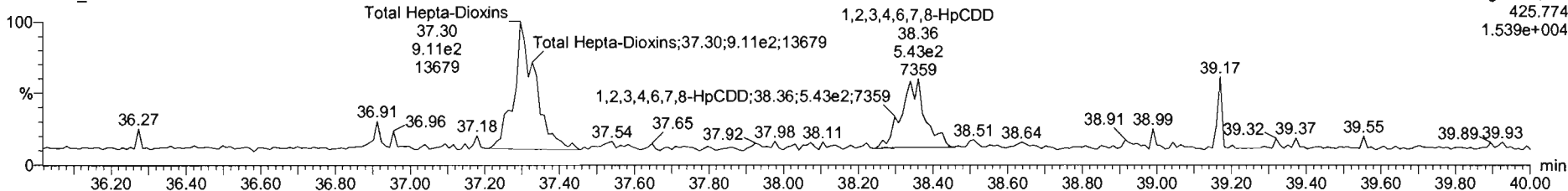
1,2,3,4,6,7,8-HpCDD

200506R1\_6



F4: Voltage SIR, EI+  
423.777  
1.244e+004

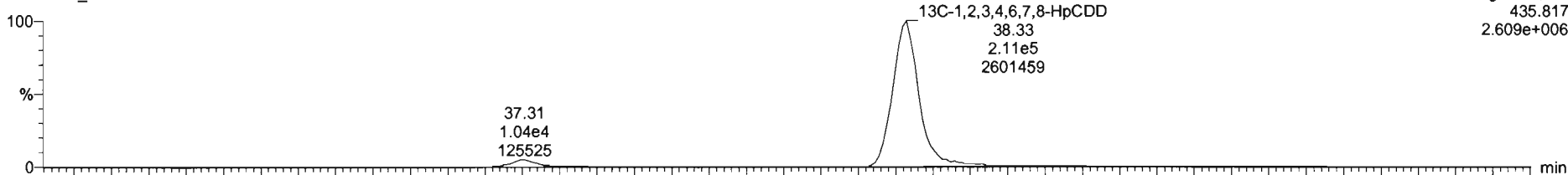
200506R1\_6



F4: Voltage SIR, EI+  
425.774  
1.539e+004

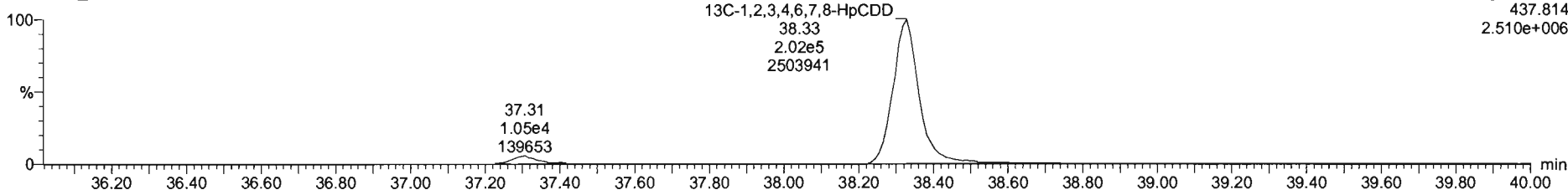
13C-1,2,3,4,6,7,8-HpCDD

200506R1\_6



F4: Voltage SIR, EI+  
435.817  
2.609e+006

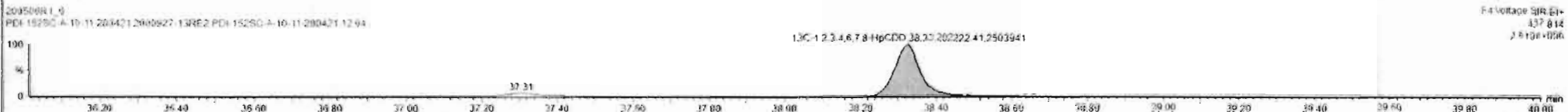
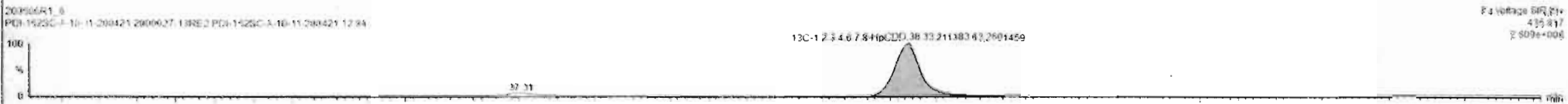
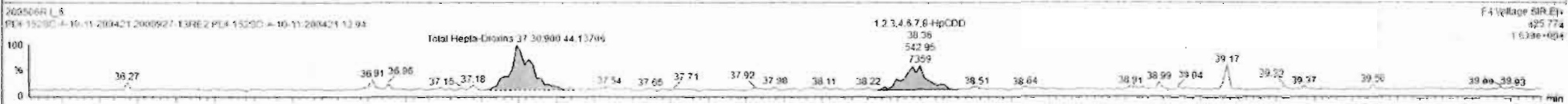
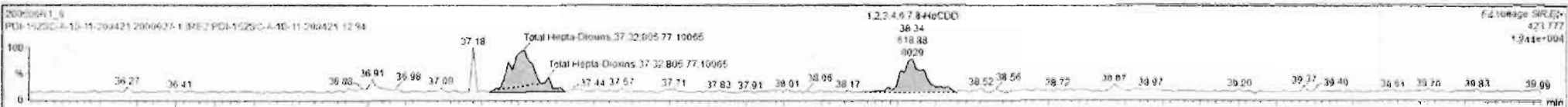
200506R1\_6



F4: Voltage SIR, EI+  
437.814  
2.510e+006

#	Name	Resp	RA	ry	RRF	w/val	RT	RRT	Clac	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.028					0.0351	
40	Total Penta-Dioxins				0.9425	10.028					0.110	
41	Total Hexa-Dioxins				0.9145	10.028			0.289		0.190	0.289
42	Total Hepta-Dioxins				0.6579	10.028			1.54		0.182	1.54
43	Total Tetra-Furans				0.7871	10.028					0.0249	

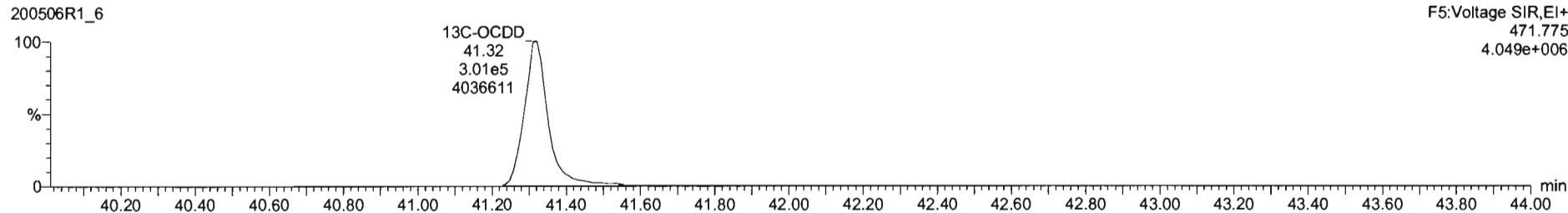
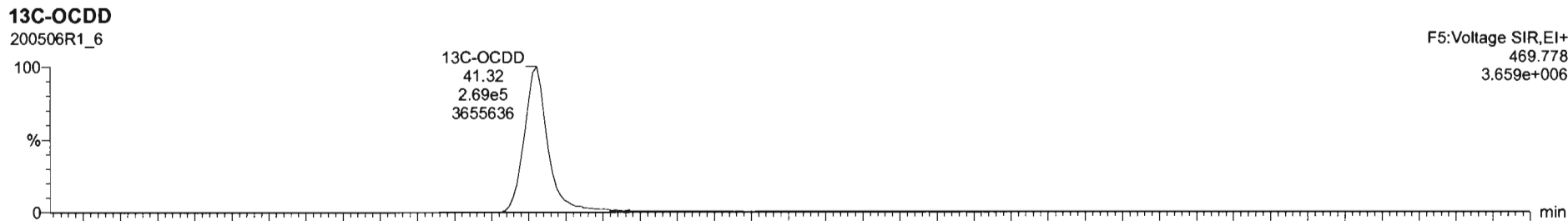
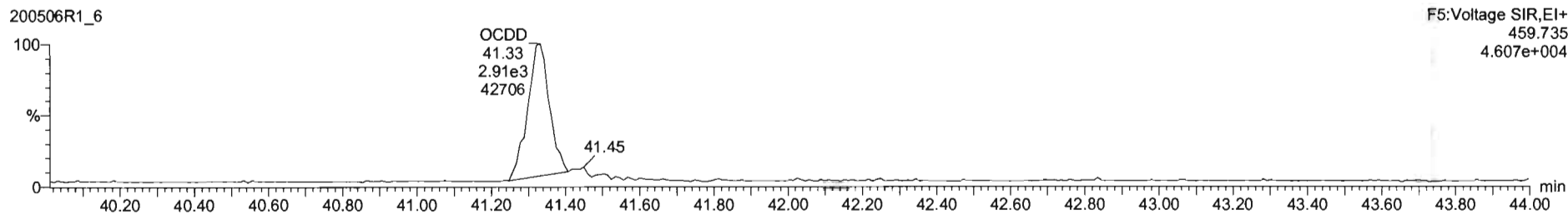
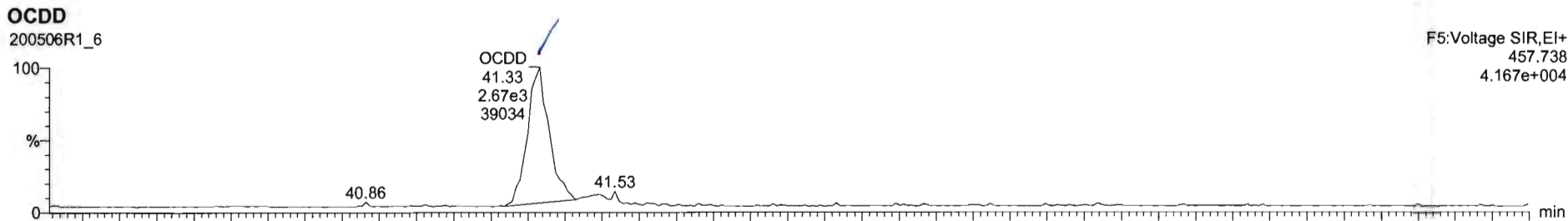
#	Name	RT	ml Resp	ml2 Resp	RA	ry	EMPC	Calc.
1	Total Hepta-Dioxins	37.32	8.058e2	9.004e2	0.89	NO	0.91630	0.91630
2	1,2,3,4,6,7,8-HpCDD	38.24	6.189e2	5.430e2	1.14	NO	0.62295	0.62295



Dataset: Untitled

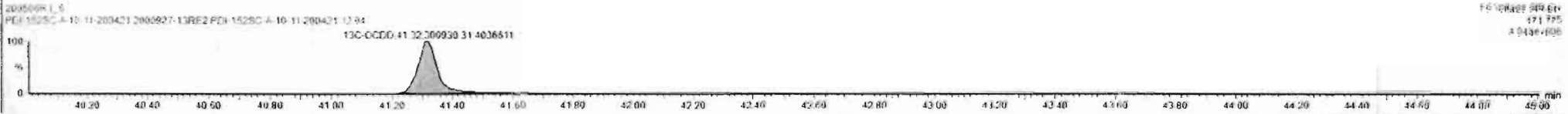
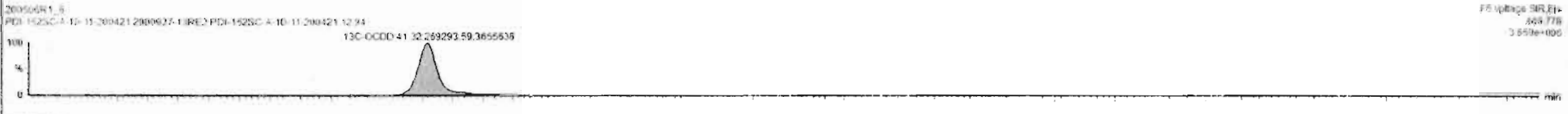
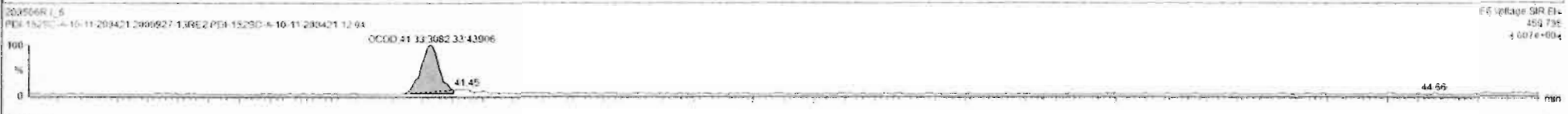
Last Altered: Wednesday, May 06, 2020 12:37:53 PM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 12:38:38 PM Pacific Daylight Time

Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421



Name	Resp	RA	ny	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCDD	5.9ae7	0.93	NO	0.9335	10.028	41.33	1.000	4.45	0.125	4.45
5	2,3,7,8-TCDF			NO	0.7871	10.028				0.0509	
9	1,2,3,7,8-PeCDF			NO	0.9102	10.028				0.0850	
10	2,3,4,7,8-PeCDF			NO	0.9664	10.028				0.0794	
11	1,2,3,4,7,8-HxCDF			NO	0.8782	10.028				0.0703	

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



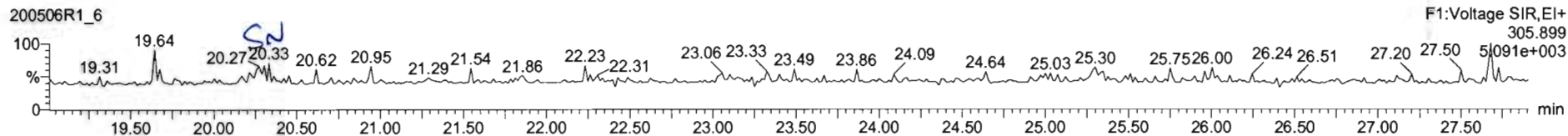
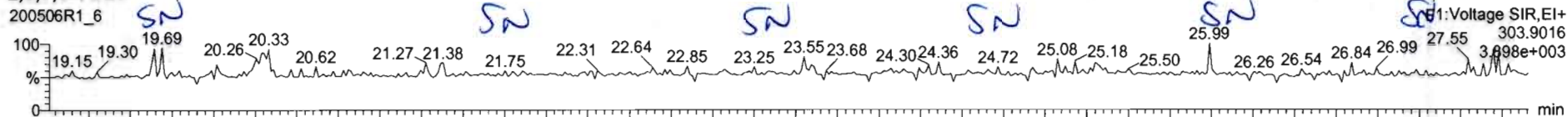
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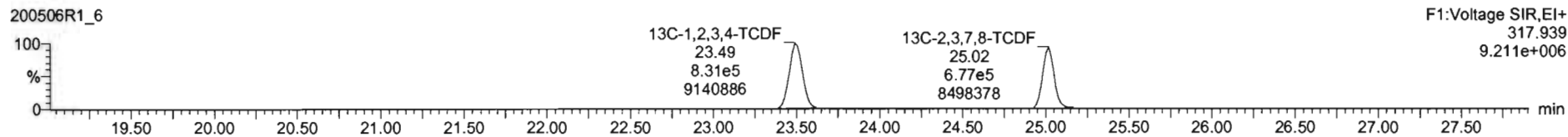
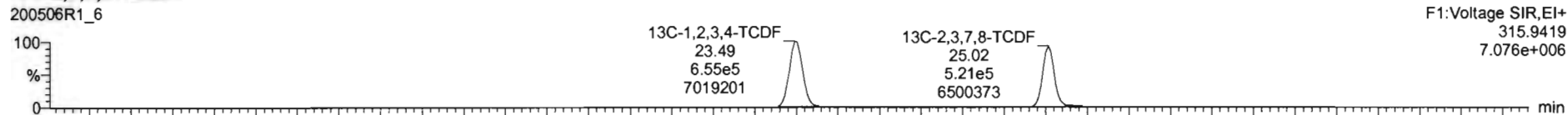
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Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

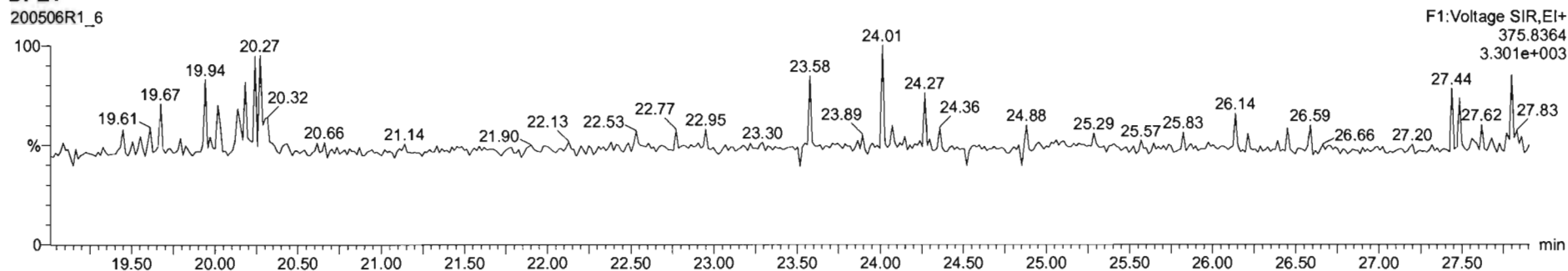
**2,3,7,8-TCDF**



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



**DPE1**



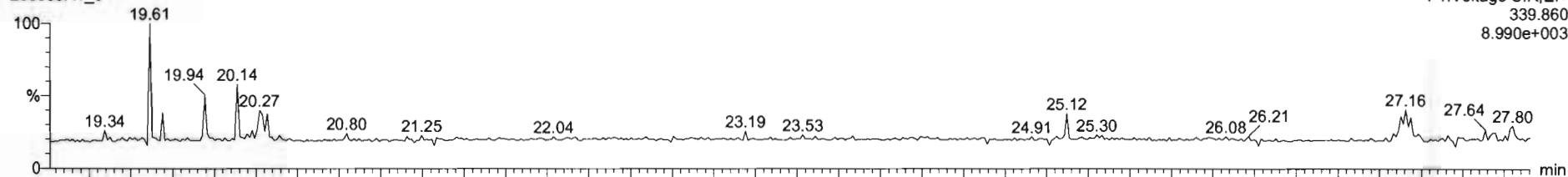
Dataset: Untitled

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Printed: Wednesday, May 06, 2020 12:38:38 PM Pacific Daylight Time

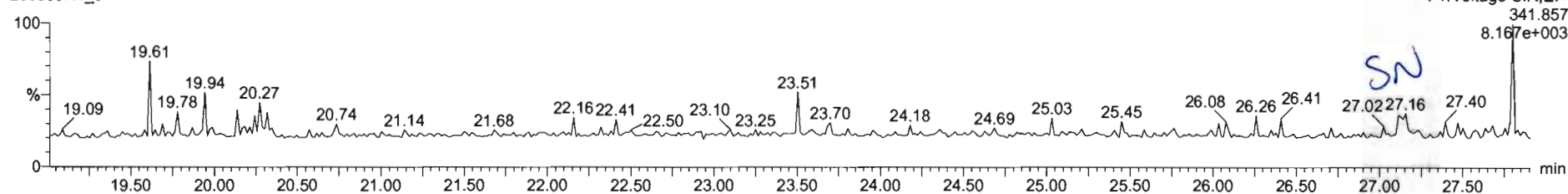
Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

1st Func. Penta-Furans

200506R1\_6

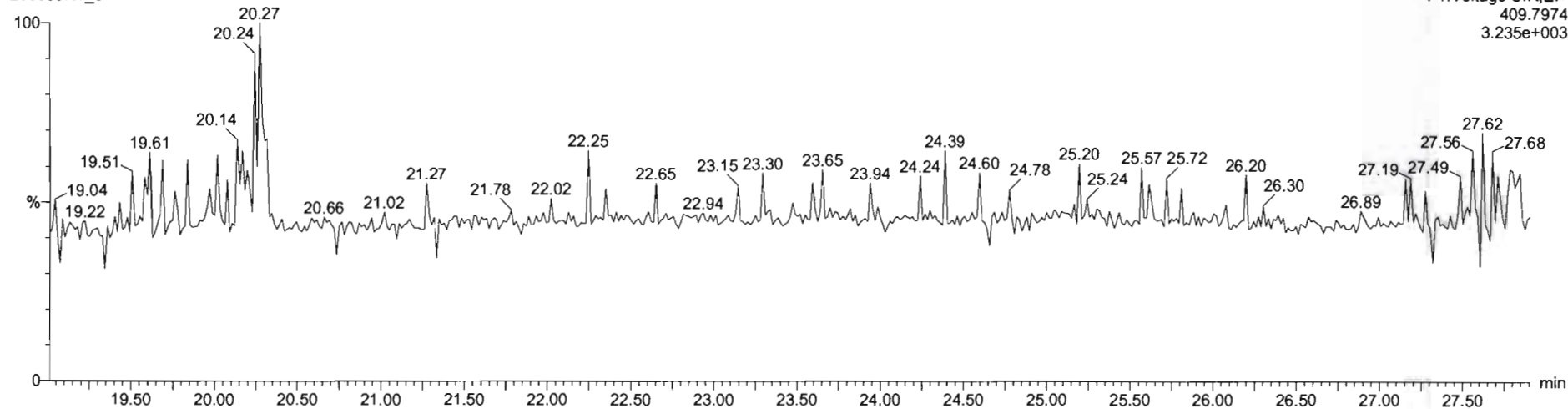


200506R1\_6



DPE6

200506R1\_6



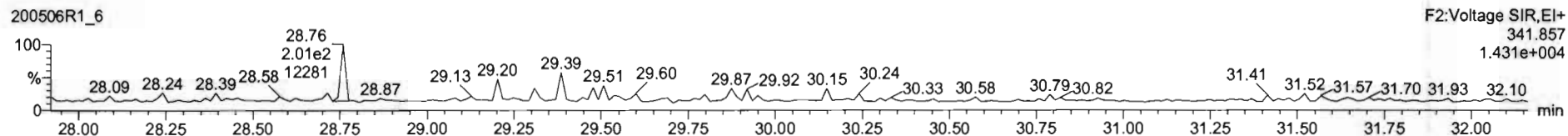
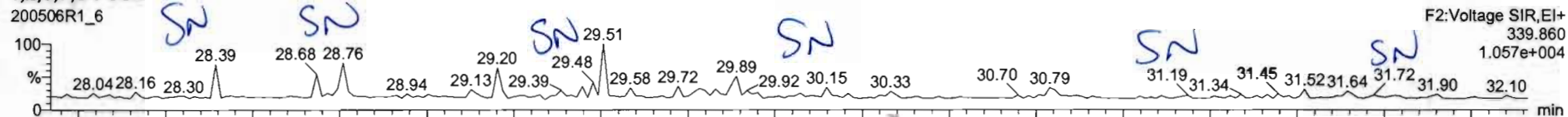


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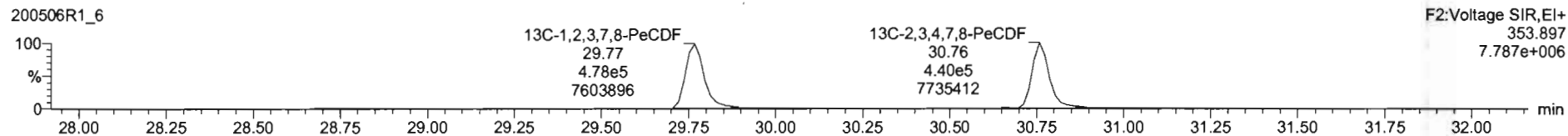
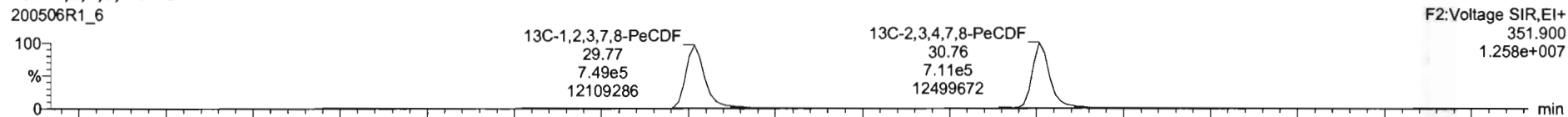
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Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

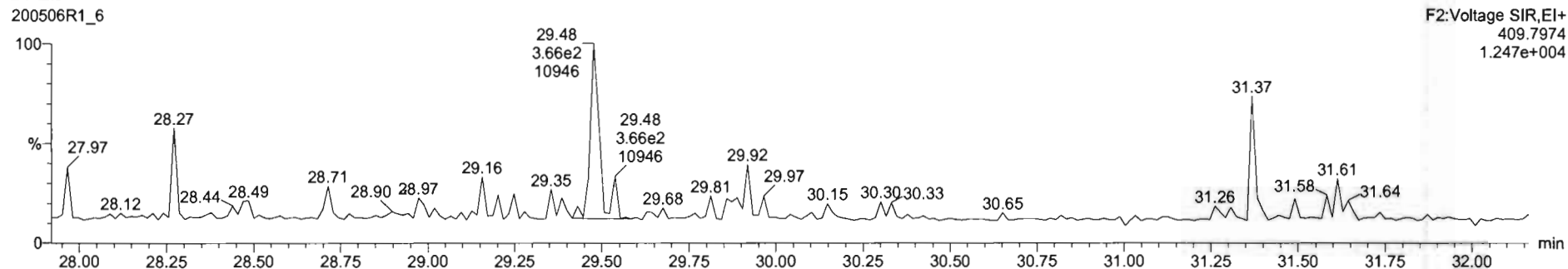
**1,2,3,7,8-PeCDF**



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



**DPE2**



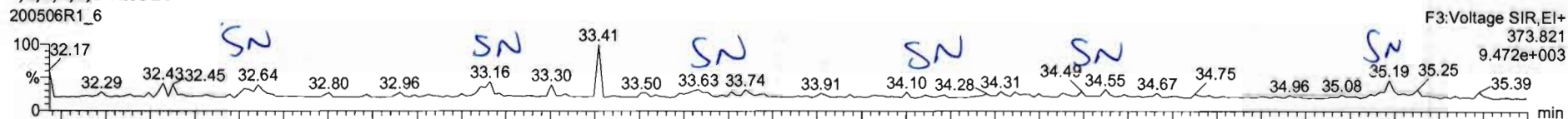
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Printed: Wednesday, May 06, 2020 12:38:38 PM Pacific Daylight Time

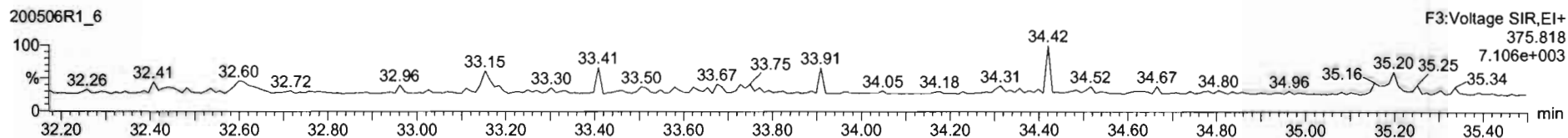
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1,2,3,4,7,8-HxCDF

200506R1\_6

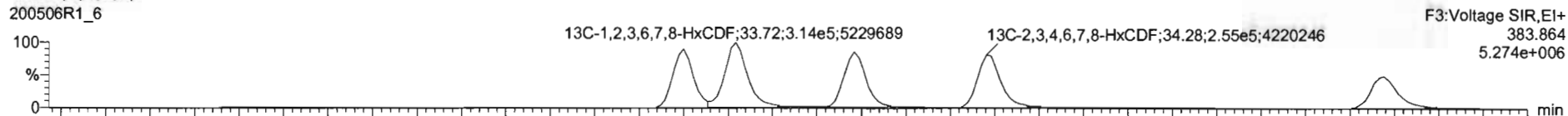


200506R1\_6

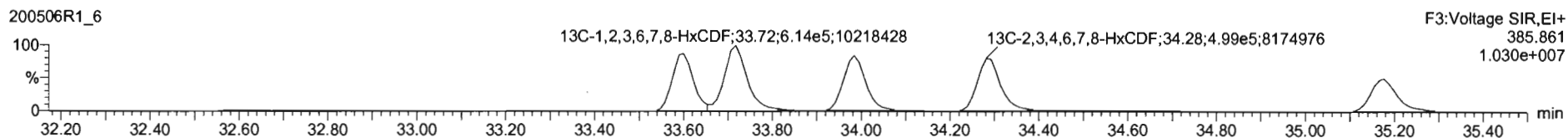


13C-1,2,3,4,7,8-HxCDF

200506R1\_6

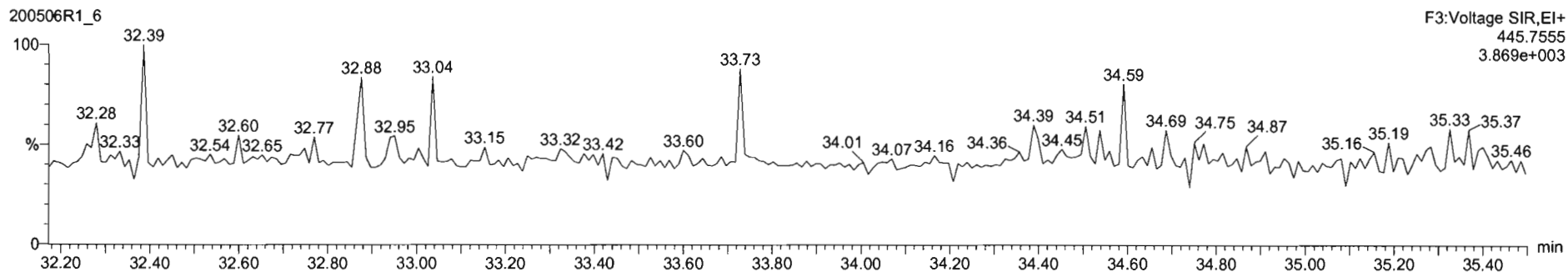


200506R1\_6



DPE3

200506R1\_6



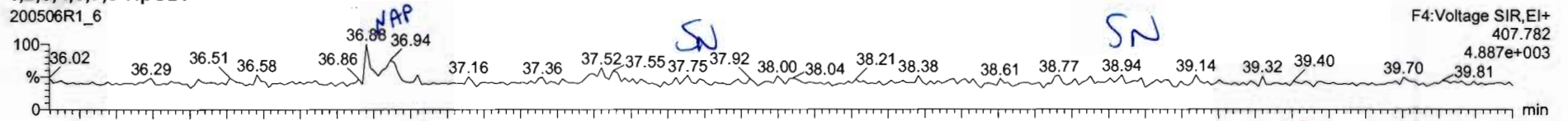
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Printed: Wednesday, May 06, 2020 12:38:38 PM Pacific Daylight Time

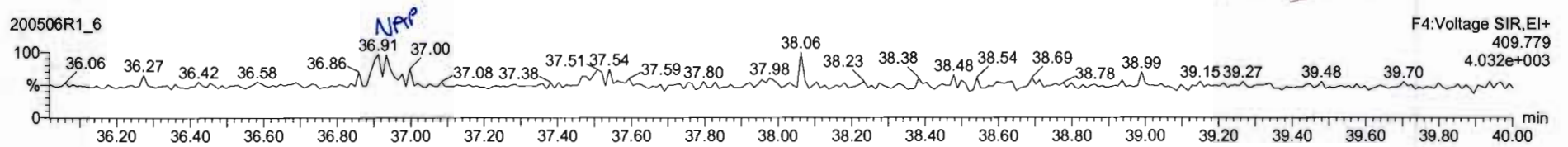
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1,2,3,4,6,7,8-HpCDF

200506R1\_6

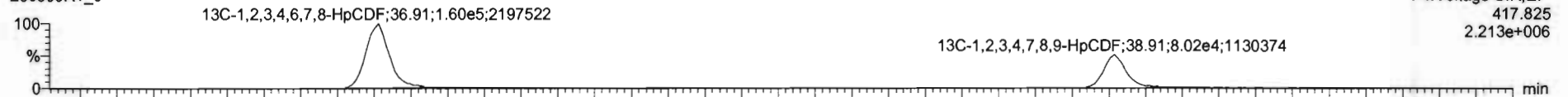


200506R1\_6

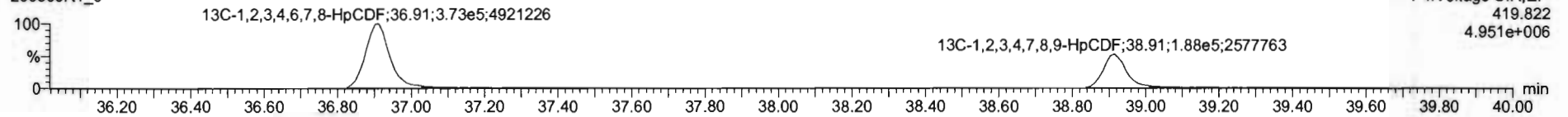


13C-1,2,3,4,6,7,8-HpCDF

200506R1\_6

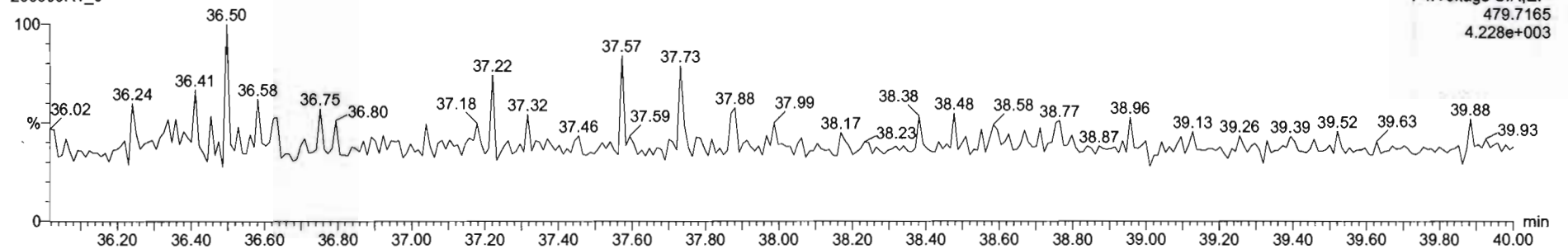


200506R1\_6



DPE4

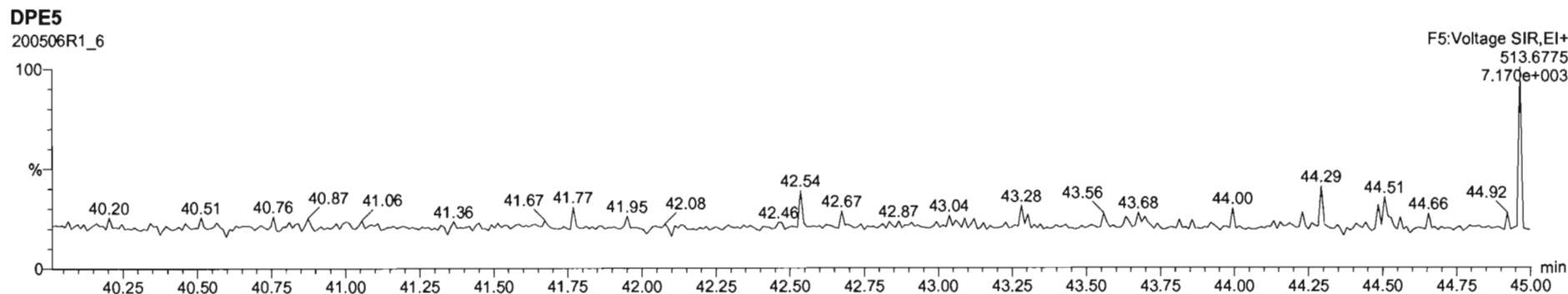
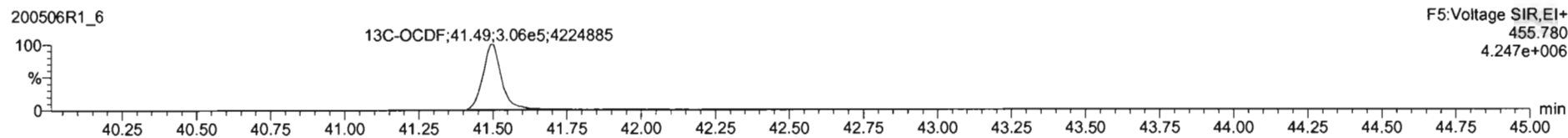
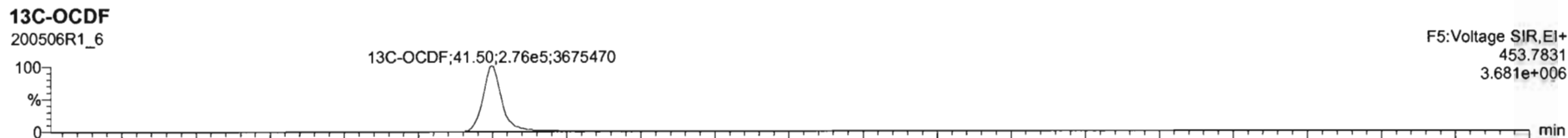
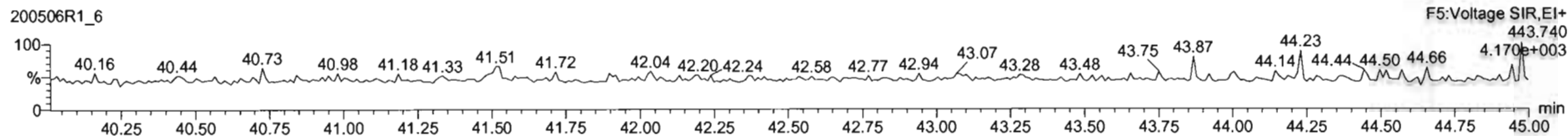
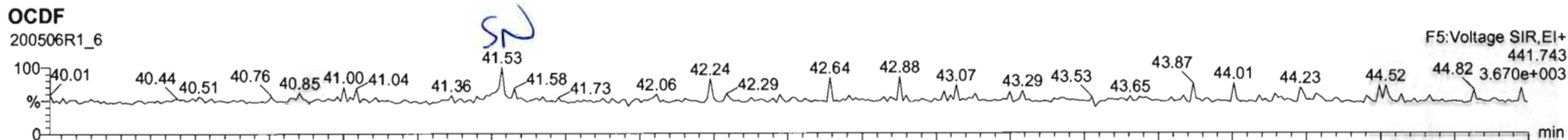
200506R1\_6



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Printed: Wednesday, May 06, 2020 12:38:38 PM Pacific Daylight Time

Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

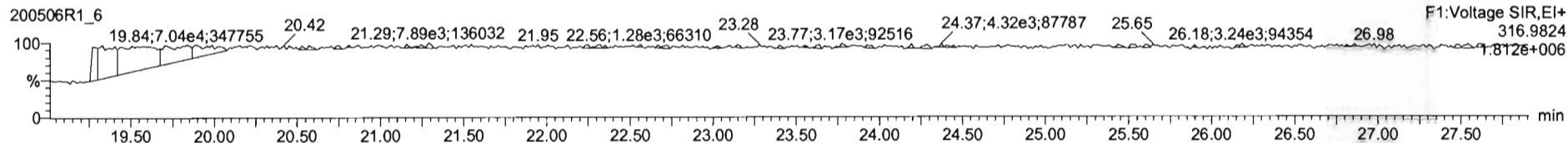


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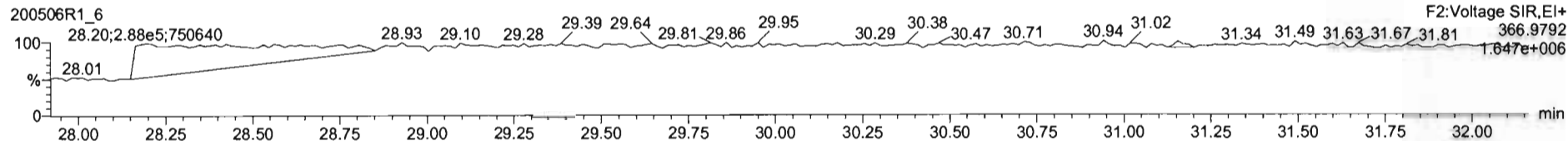
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Name: 200506R1\_6, Date: 06-May-2020, Time: 11:51:37, ID: 2000927-13RE2 PDI-152SC-A-10-11-200421 12.94, Description: PDI-152SC-A-10-11-200421

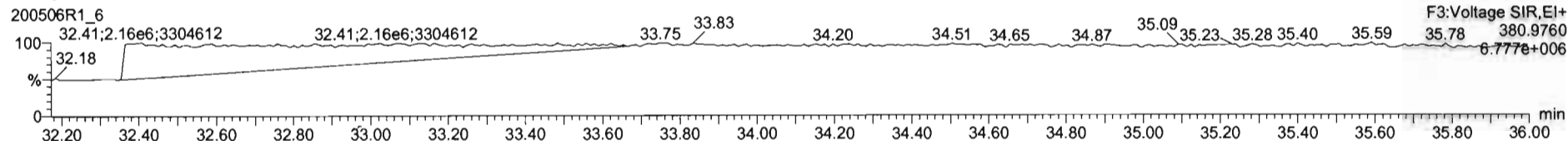
PFK1



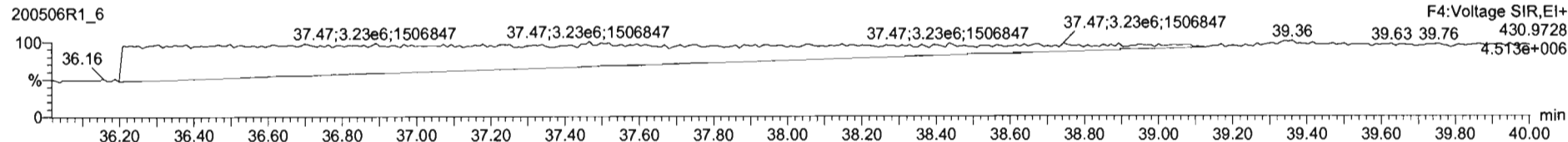
PFK2



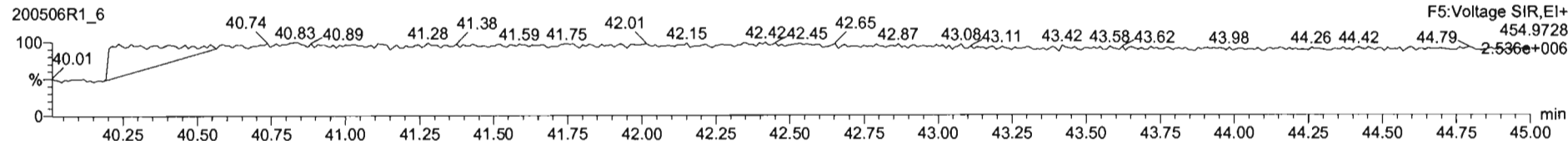
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-15.qld

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GRB 05/02/2020

LT 05/05/2020

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

Name: 200501R2\_15, Date: 02-May-2020, Time: 02:09:59, ID: 2000927-14 PDI-152SC-A-11-12-200421 12.81, Description: PDI-152SC-A-11-12-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.008	26.006		1.001				0.0774	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.008	31.101		1.001				0.0573	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.008	34.462		1.000				0.0617	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.008	34.559		1.000				0.0566	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.008	34.846		1.000				0.0633	
6	6 1,2,3,4,6,7,8-HpCDD	6.72e2	0.89	NO	0.898	10.008	38.341	38.34	1.000	1.000	0.24686		0.121	0.247
7	7 OCDD	4.29e3	0.94	NO	0.933	10.008	41.311	41.33	1.000	1.001	2.0943		0.120	2.09
8	8 2,3,7,8-TCDF			NO	0.787	10.008	25.057		1.001				0.0516	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.008	29.788		1.001				0.0418	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.008	30.790		1.001				0.0398	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.008	33.600		1.000				0.0301	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.008	33.727		1.000				0.0305	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.008	34.316		1.001				0.0304	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.008	35.176		1.000				0.0496	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.008	36.939		1.001				0.0604	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.008	38.915		1.000				0.0903	
17	17 OCDF	1.83e2	0.73	YES	0.802	10.008	41.492	41.50	1.000	1.000	0.094436		0.0740	0.0847
18	18 13C-2,3,7,8-TCDD	8.28e5	0.79	NO	1.16	10.008	25.969	25.98	1.026	1.027	114.40	57.2	0.196	
19	19 13C-1,2,3,7,8-PeCDD	7.10e5	0.63	NO	0.847	10.008	31.049	31.08	1.227	1.228	134.17	67.1	0.250	
20	20 13C-1,2,3,4,7,8-HxCDD	5.88e5	1.29	NO	0.750	10.008	34.463	34.45	1.014	1.014	130.44	65.3	0.372	
21	21 13C-1,2,3,6,7,8-HxCDD	8.22e5	1.27	NO	0.963	10.008	34.575	34.56	1.017	1.017	142.06	71.1	0.290	
22	22 13C-1,2,3,7,8,9-HxCDD	7.69e5	1.24	NO	0.838	10.008	34.844	34.84	1.025	1.025	152.65	76.4	0.333	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.06e5	1.04	NO	0.641	10.008	38.331	38.33	1.128	1.128	157.15	78.6	0.484	
24	24 13C-OCDD	8.76e5	0.89	NO	0.586	10.008	41.321	41.31	1.216	1.216	248.57	62.2	0.429	
25	25 13C-2,3,7,8-TCDF	1.12e6	0.78	NO	1.03	10.008	25.030	25.03	0.989	0.989	109.46	54.8	0.273	
26	26 13C-1,2,3,7,8-PeCDF	1.08e6	1.59	NO	0.845	10.008	29.741	29.77	1.176	1.177	128.81	64.5	0.520	
27	27 13C-2,3,4,7,8-PeCDF	1.00e6	1.64	NO	0.814	10.008	30.731	30.76	1.215	1.216	124.36	62.2	0.539	
28	28 13C-1,2,3,4,7,8-HxCDF	8.63e5	0.51	NO	1.00	10.008	33.603	33.60	0.989	0.989	142.88	71.5	0.634	
29	29 13C-1,2,3,6,7,8-HxCDF	1.05e6	0.52	NO	1.14	10.008	33.726	33.72	0.992	0.992	153.06	76.6	0.560	
30	30 13C-2,3,4,6,7,8-HxCDF	9.57e5	0.51	NO	1.02	10.008	34.293	34.28	1.009	1.009	155.79	78.0	0.623	
31	31 13C-1,2,3,7,8,9-HxCDF	7.15e5	0.49	NO	0.845	10.008	35.184	35.18	1.035	1.035	140.76	70.4	0.754	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-15.qld

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59, ID: 200501R2\_15, Date: 02-May-2020, Time: 02:09:59, ID: 2000927-14 PDI-152SC-A-11-12-200421 12.81, Description: PDI-152SC-A-11-12-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.92e5	0.44	NO	0.771	10.008	36.913	36.90	1.086	1.086	170.78	85.5	0.535	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.30e5	0.45	NO	0.482	10.008	38.922	38.92	1.145	1.145	148.20	74.2	0.855	
34	34 13C-OCDF	9.63e5	0.86	NO	0.669	10.008	41.491	41.49	1.221	1.221	239.68	60.0	0.369	
35	35 37Cl-2,3,7,8-TCDD	3.53e5			1.10	10.008	25.999	26.00	1.028	1.028	51.476	64.4	0.0436	
36	36 13C-1,2,3,4-TCDD	1.25e6	0.81	NO	1.00	10.008	25.350	25.30	1.000	1.000	199.84	100	0.227	
37	37 13C-1,2,3,4-TCDF	1.98e6	0.80	NO	1.00	10.008	23.560	23.52	1.000	1.000	199.84	100	0.282	
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	0.52	NO	1.00	10.008	34.000	33.98	1.000	1.000	199.84	100	0.637	
39	39 Total Tetra-Dioxins				0.947	10.008	24.620		0.000				0.0483	
40	40 Total Penta-Dioxins				0.942	10.008	29.960		0.000				0.0233	
41	41 Total Hexa-Dioxins				0.915	10.008	33.635		0.000		0.095032		0.0352	0.0950
42	42 Total Hepta-Dioxins				0.898	10.008	37.640		0.000		0.58935		0.121	0.589
43	43 Total Tetra-Furans				0.787	10.008	23.610		0.000				0.0242	
44	44 1st Func. Penta-Furans				0.910	10.008	27.090		0.000				0.00884	
45	45 Total Penta-Furans				0.910	10.008	29.275		0.000				0.0203	
46	46 Total Hexa-Furans				0.922	10.008	33.555		0.000				0.0175	
47	47 Total Hepta-Furans				0.871	10.008	37.835		0.000				0.0355	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-15.qld

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Name: 200501R2\_15, Date: 02-May-2020, Time: 02:09:59, ID: 2000927-14 PDI-152SC-A-11-12-200421 12.81, Description: PDI-152SC-A-11-12-200421

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	3.609e3	3.648e3	1.727e2	1.432e2	1.21	NO	3.159e2	0.095032	0.095032	0.0352

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.31	6.611e3	6.502e3	4.783e2	4.542e2	1.05	NO	9.325e2	0.34249	0.34249	0.121
2	1,2,3,4,6,7,8-HpCDD	38.34	4.394e3	5.414e3	3.161e2	3.561e2	0.89	NO	6.721e2	0.24686	0.24686	0.121

**Tetra-Furans**

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

**Penta-Furans function 1**

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



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-15.qld

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Name: 200501R2\_15, Date: 02-May-2020, Time: 02:09:59, ID: 2000927-14 PDI-152SC-A-11-12-200421 12.81, Description: PDI-152SC-A-11-12-200421

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

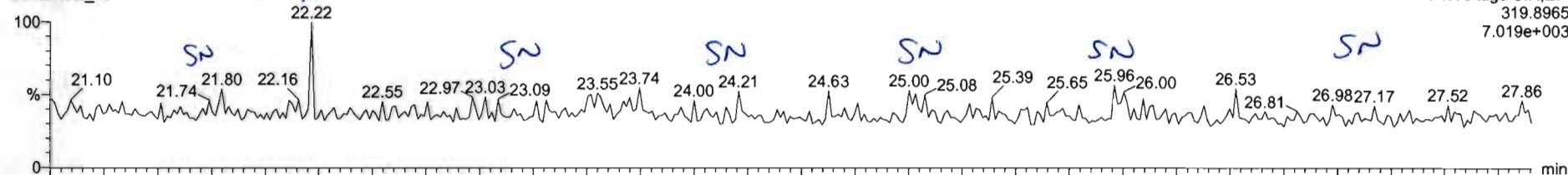
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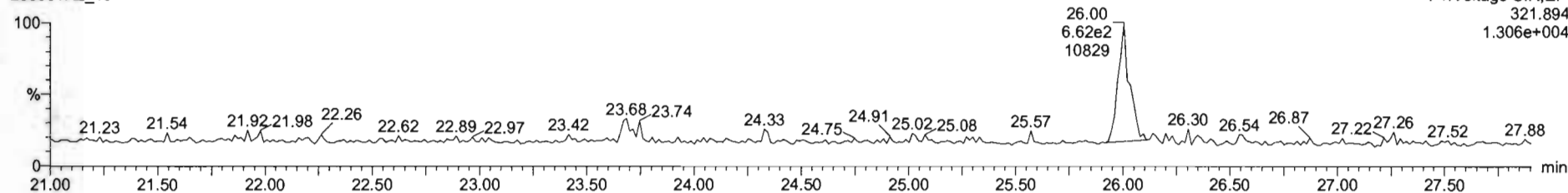
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2,3,7,8-TCDD

200501R2\_15

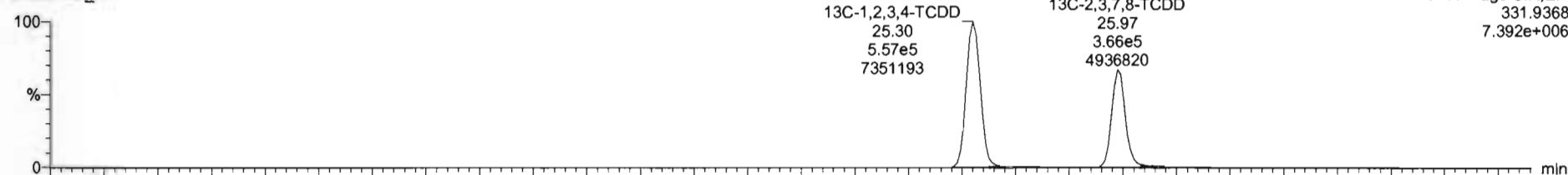


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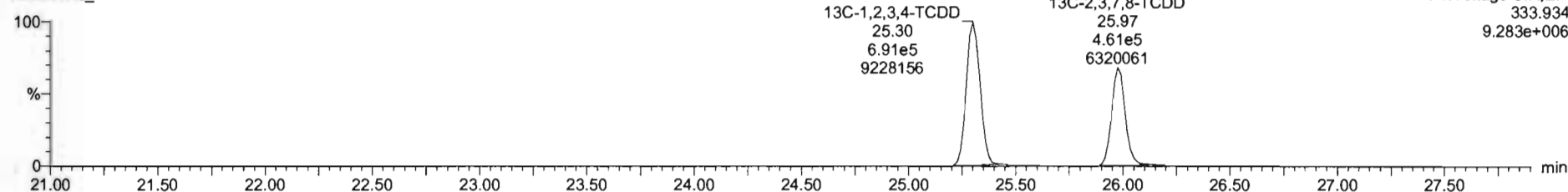


13C-2,3,7,8-TCDD

200501R2\_15



200501R2\_15



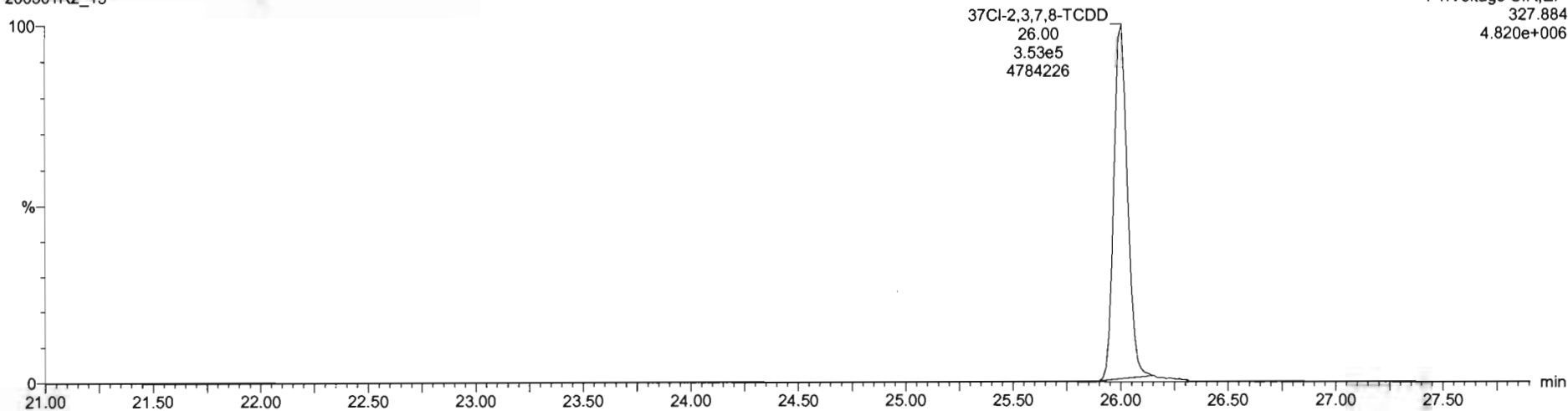
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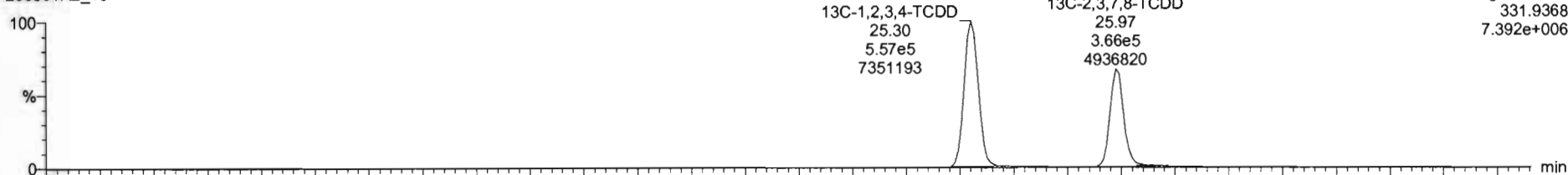
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200501R2\_15

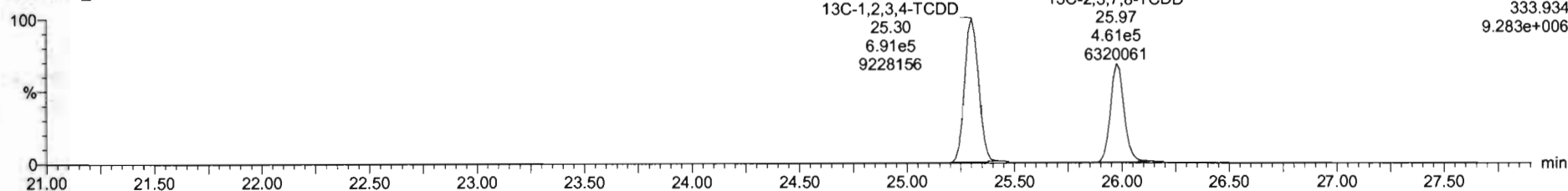


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200501R2\_15



200501R2\_15



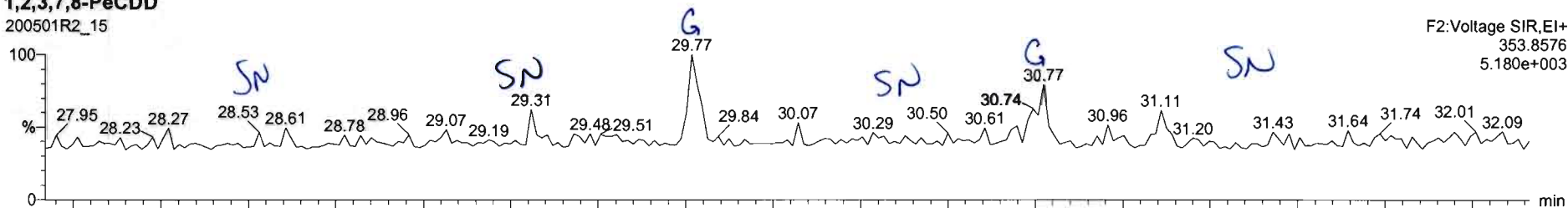
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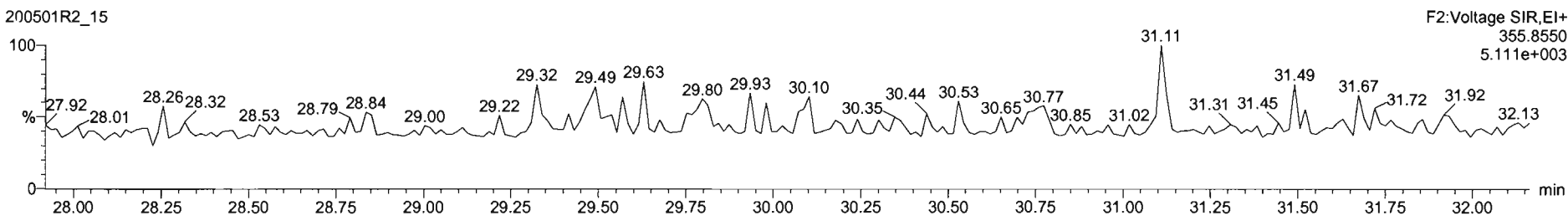
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1,2,3,7,8-PeCDD

200501R2\_15

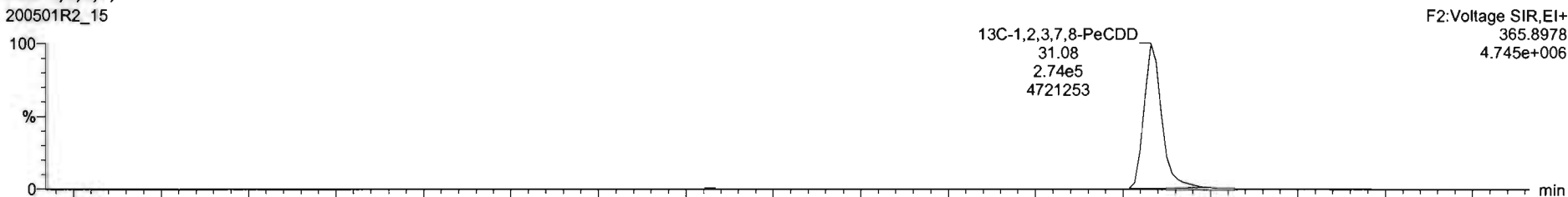


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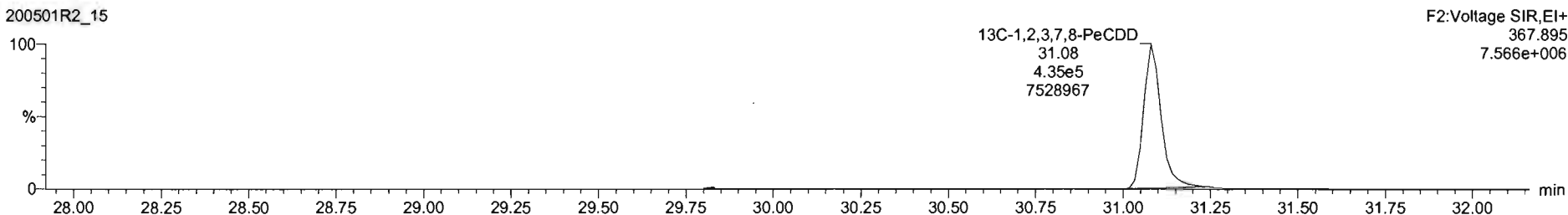


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200501R2\_15



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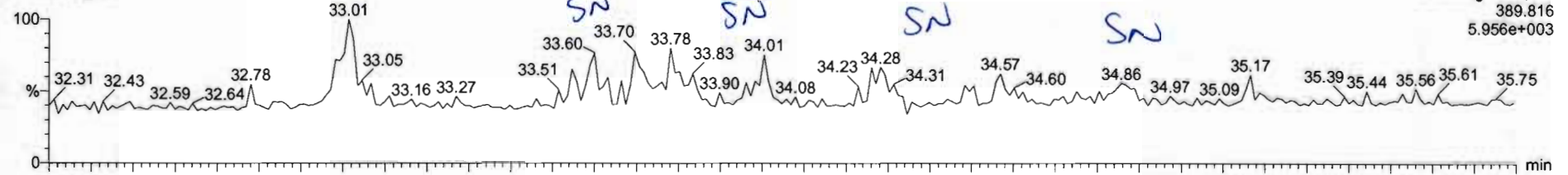
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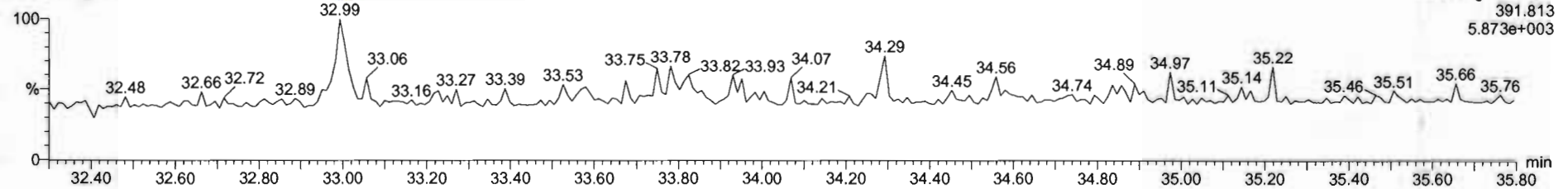
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1,2,3,4,7,8-HxCDD

200501R2\_15

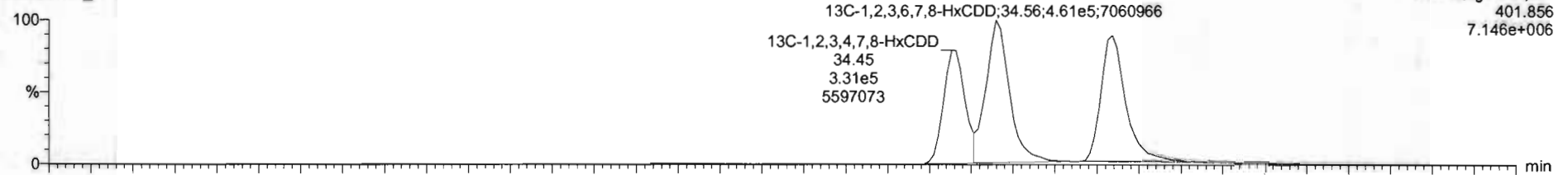


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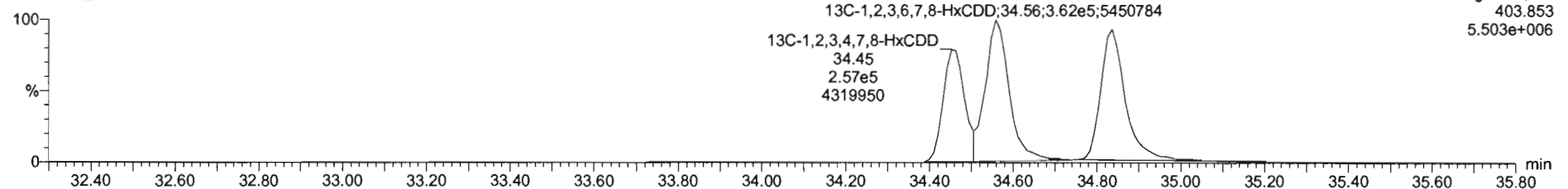


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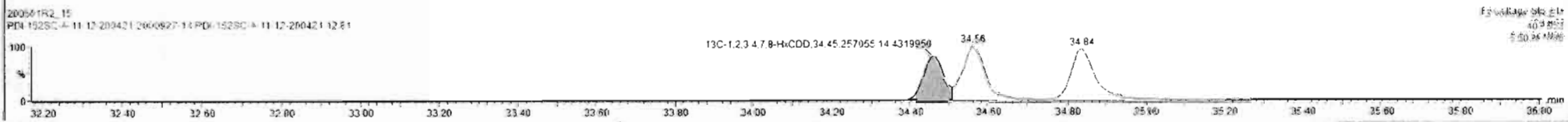
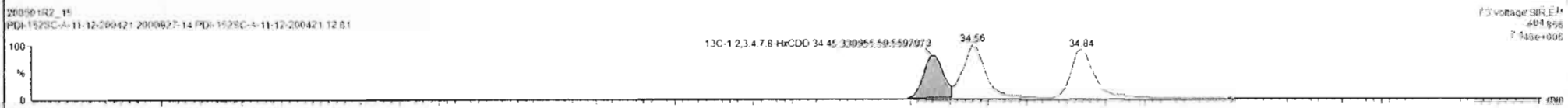
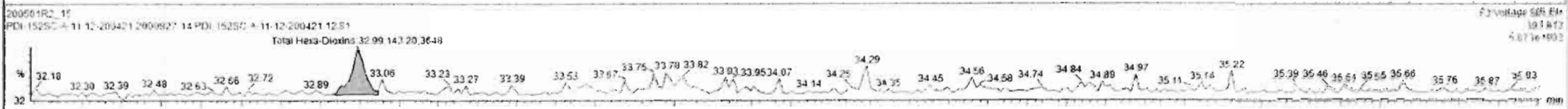
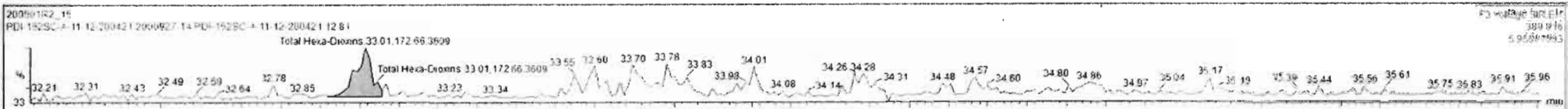


200501R2\_15



Name	Resp	RA	n/y	RRF	wvol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	10.000			0.0950		0.0352	0.0950
42 Total Hepta-Dioxins				0.6979	10.000			0.342		0.123	0.570
43 Total Tetra-Furans				0.7671	10.000					0.0242	
44 1st Func. Penta-Furans				0.9102	10.000					0.00894	
45 Total Penta-Furans				0.9102	10.000					0.0203	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.01	1.727e2	1.432e2	1.21	NO	0.095032	0.095032



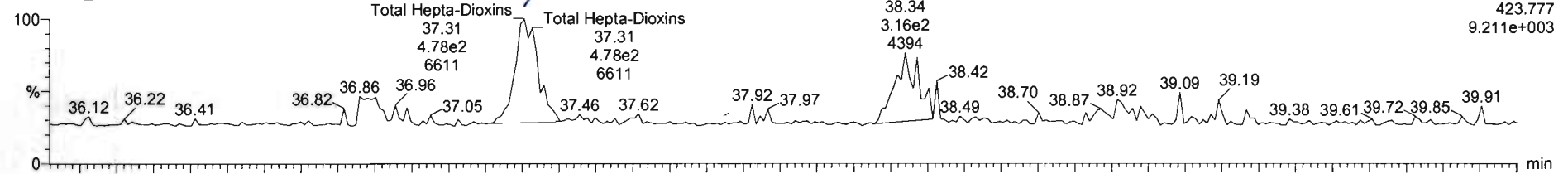
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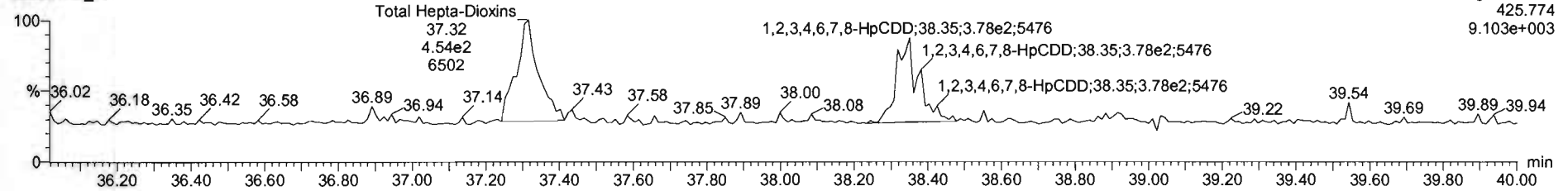
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1,2,3,4,6,7,8-HpCDD

200501R2\_15

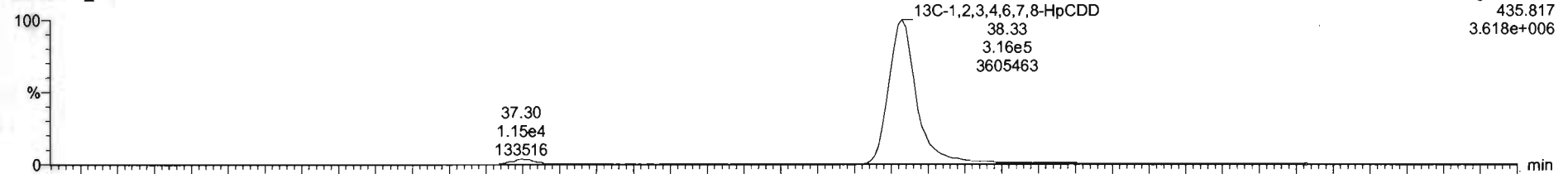


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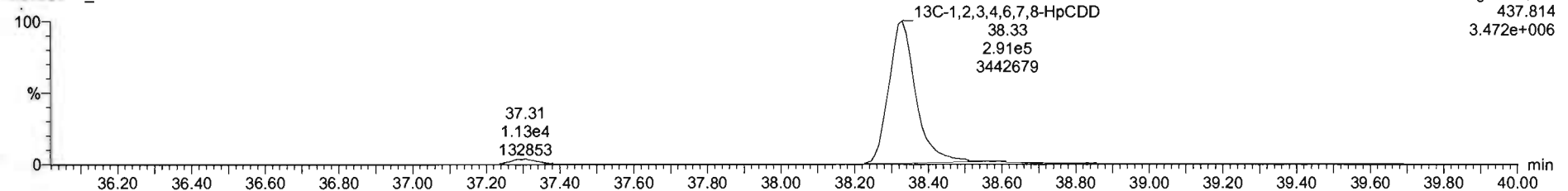


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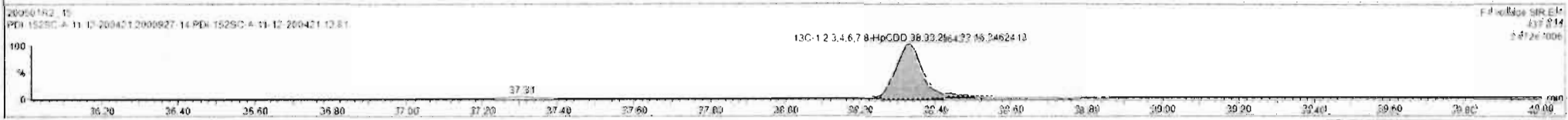
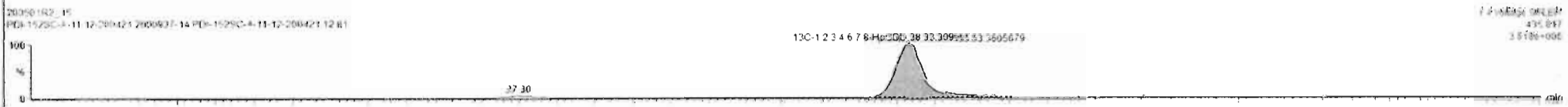
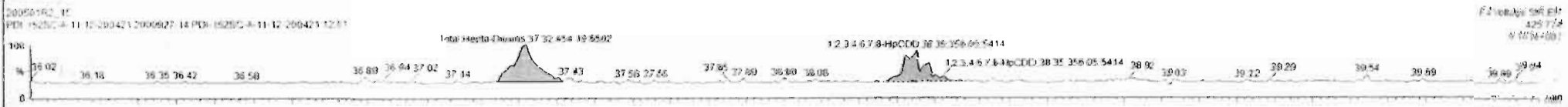
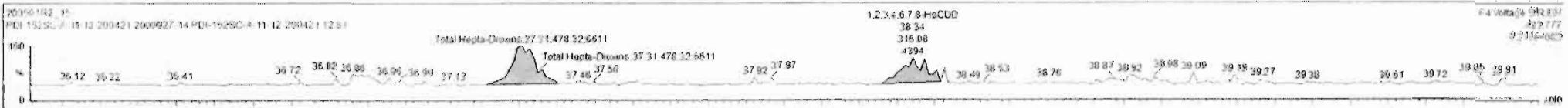


200501R2\_15



Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Chlorins				0.9145	10.008			0.0950	0.0352	0.0540	
42 Total Hepta-Chlorins				0.8979	10.008			0.509	0.121	0.569	
43 Total Tetra-Furans				0.7871	10.008				0.0242		
44 Total Func. Penta-Furans				0.9102	10.008				0.00834		
45 Total Penta-Furans				0.9102	10.008				0.0203		

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Chlorins	37.31	4.783e2	4.542e2	1.05	ND	0.34249	0.24249
2 1,2,3,4,6,7,8-HpCDD	38.34	3.161e2	3.561e2	0.65	ND	0.24666	0.24666

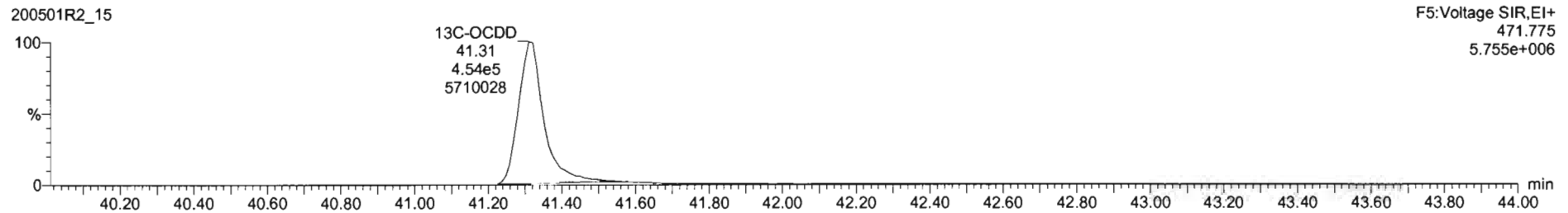
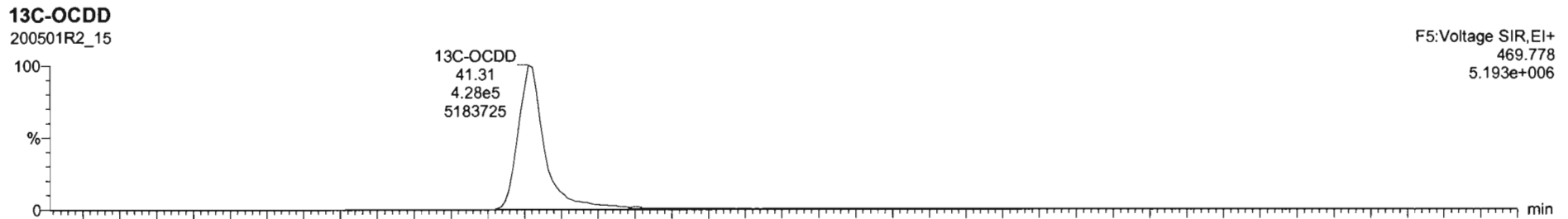
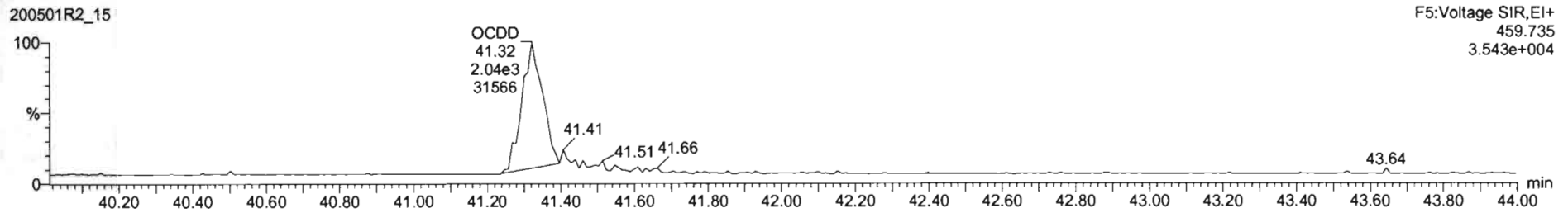
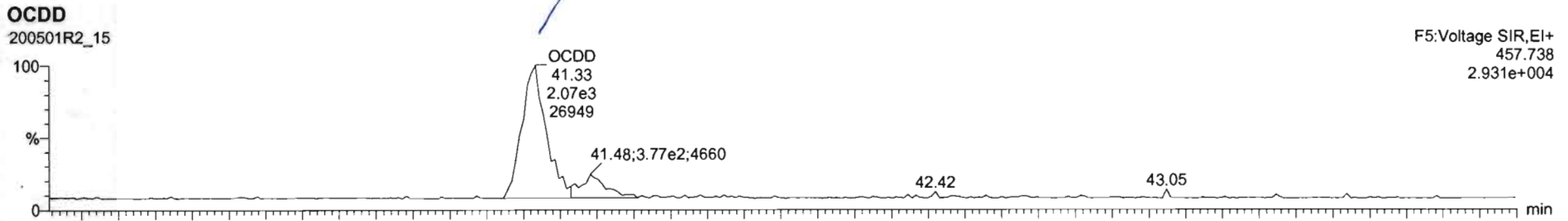




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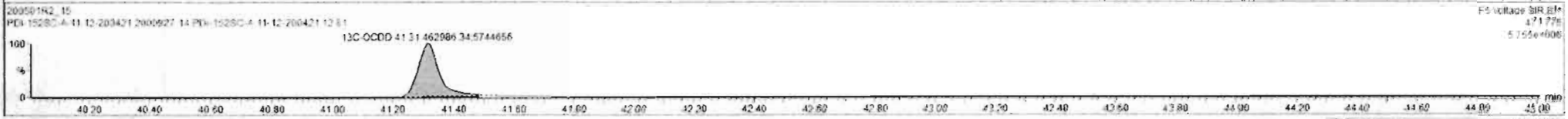
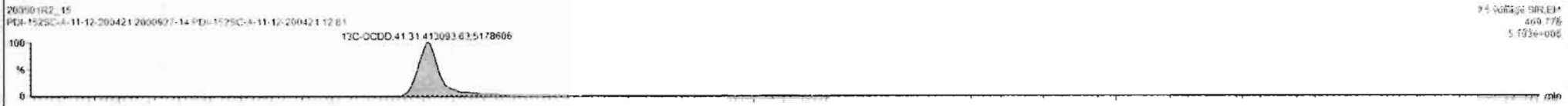
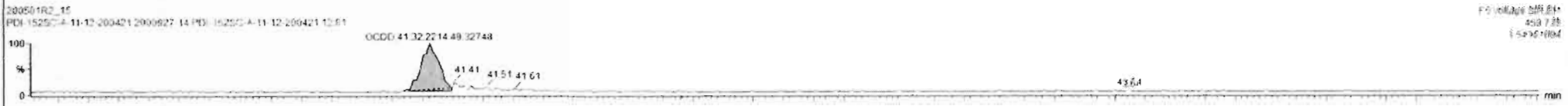
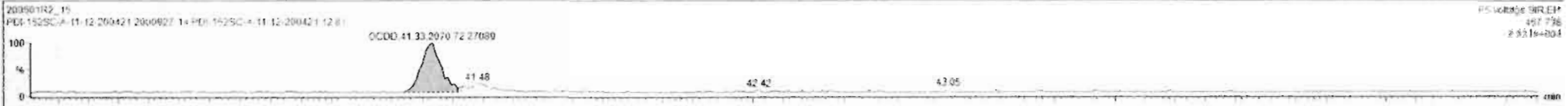
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#1	Name	Resp	RA	n/y	RRF	w/wol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	4.25e3	0.94	NO	0.9335	10.006	41.33	1.001	2.09		0.120	2.09
8	2,3,7,8-TCDF			NO	0.7271	10.005					0.0516	
9	1,2,3,7,8-PeCDF			NO	0.9102	10.005					0.0410	
10	2,3,4,7,8-PeCDF			NO	0.9664	10.005					0.0296	
11	1,2,3,4,7,8-HxCDF			NO	0.8782	10.005					0.0301	

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



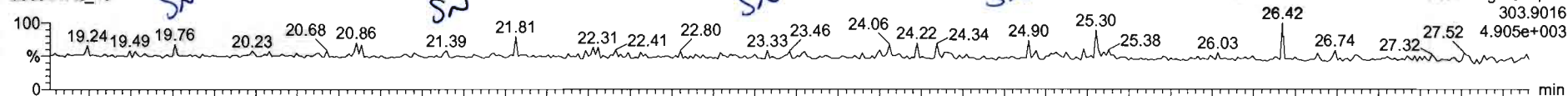
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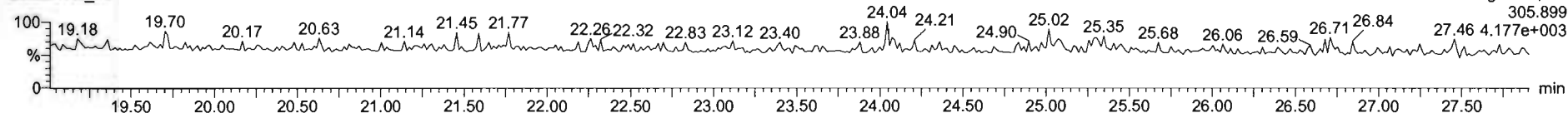
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**2,3,7,8-TCDF**

200501R2\_15

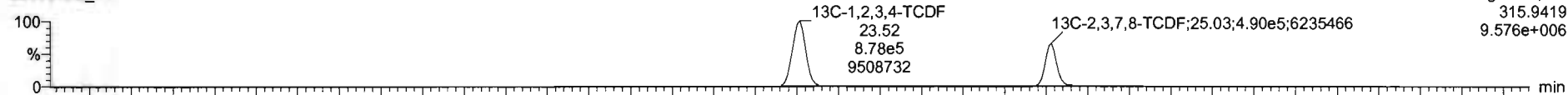


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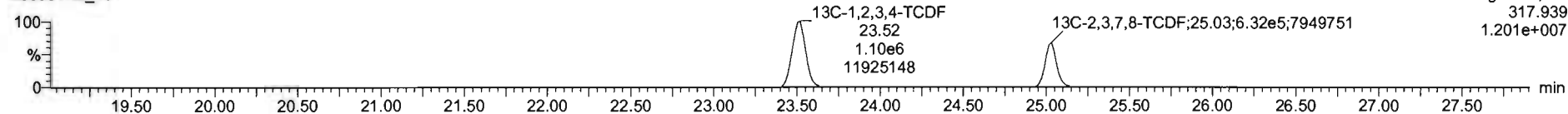


**13C-2,3,7,8-TCDF**

200501R2\_15

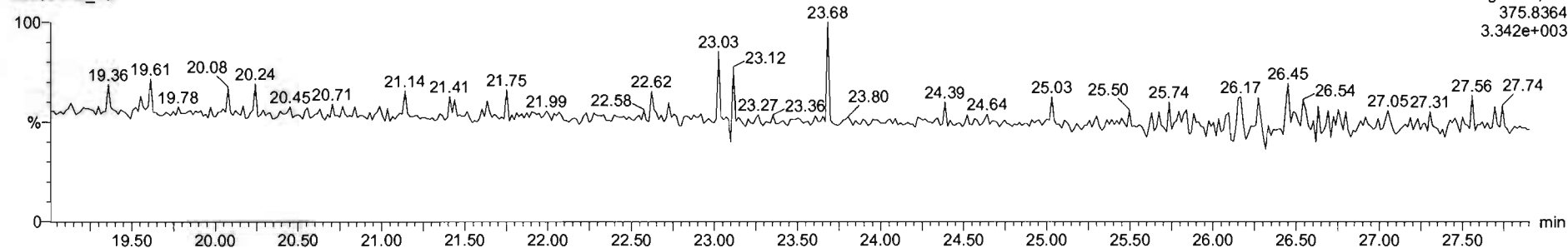


200501R2\_15



**DPE1**

200501R2\_15



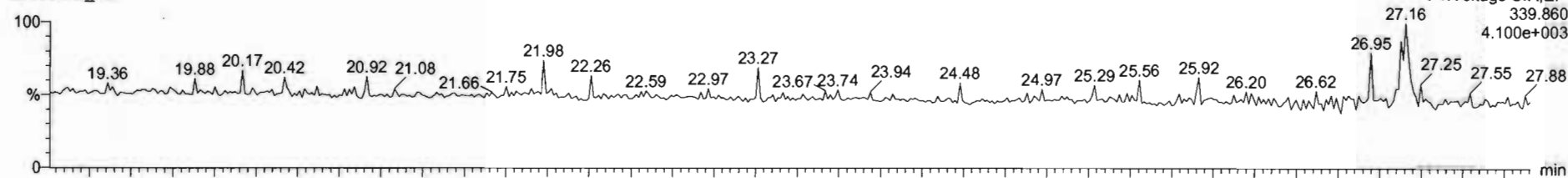
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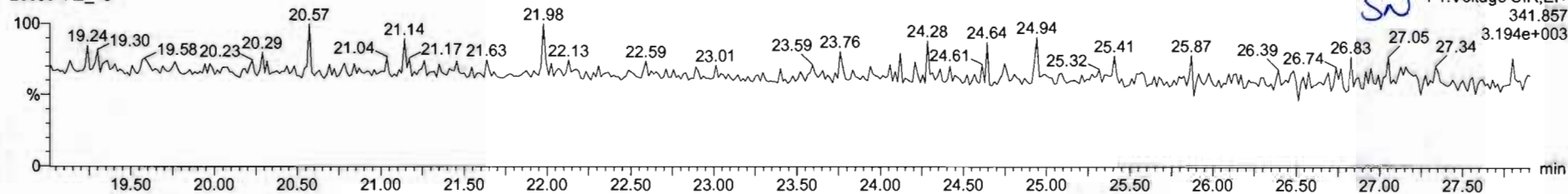
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1st Func. Penta-Furans

200501R2\_15

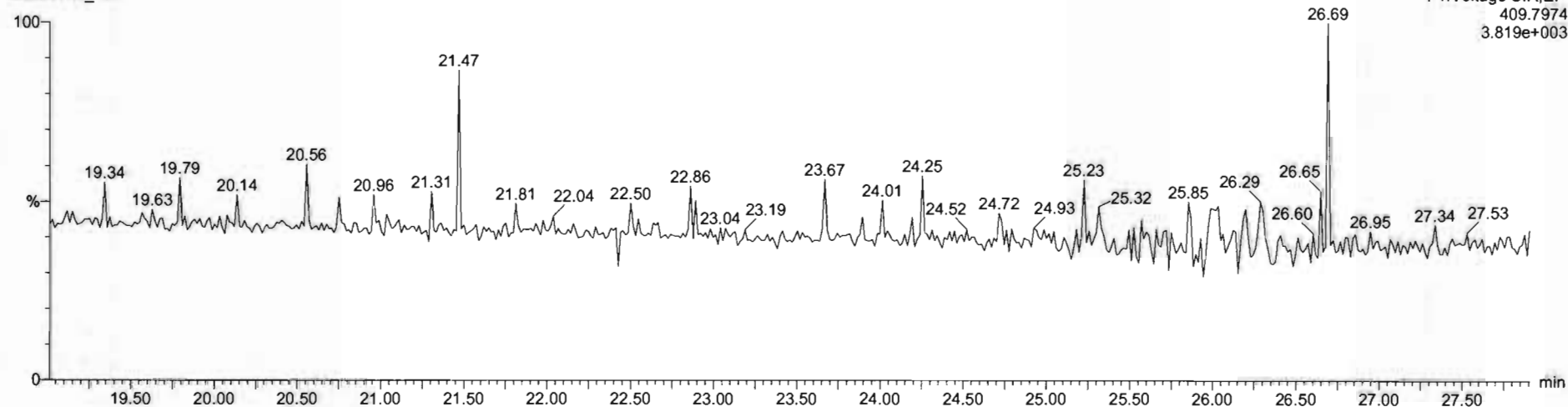


200501R2\_15



DPE6

200501R2\_15



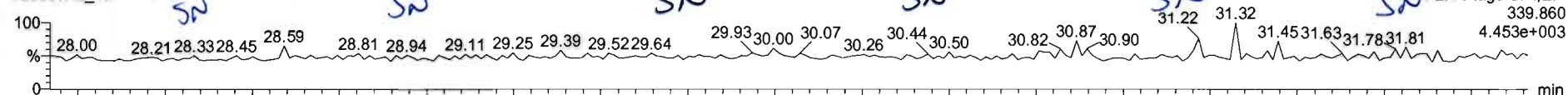
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Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

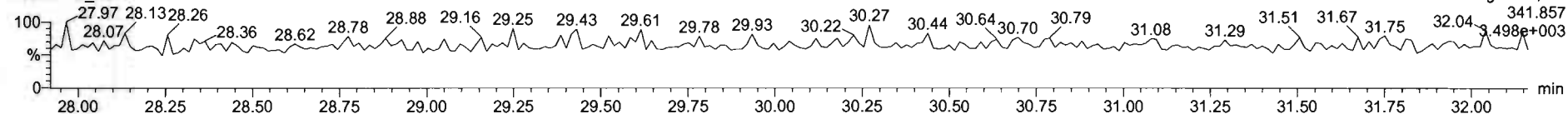
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1,2,3,7,8-PeCDF

200501R2\_15

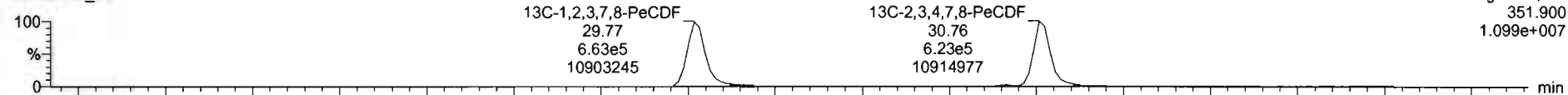


200501R2\_15

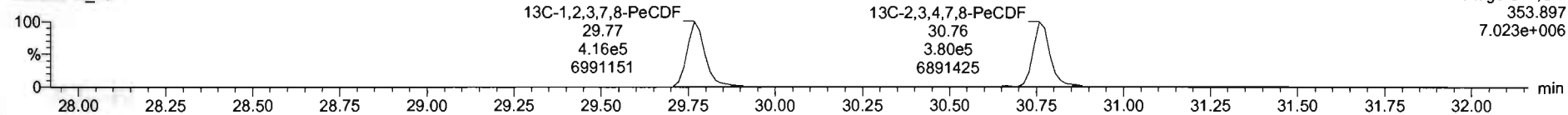


13C-1,2,3,7,8-PeCDF

200501R2\_15

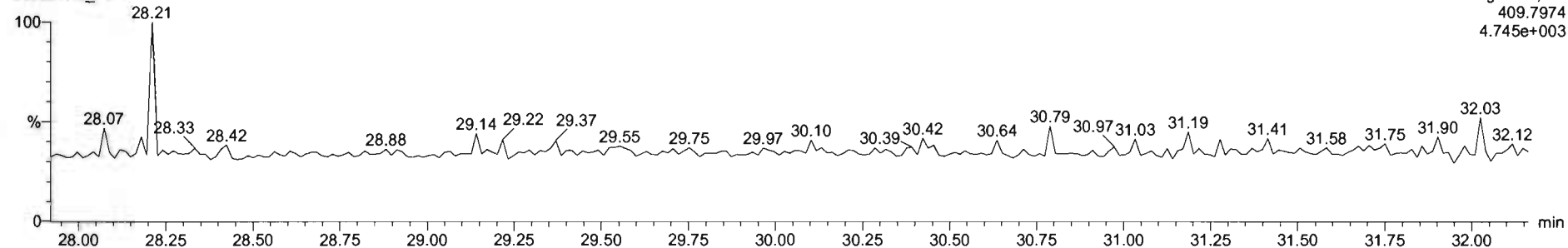


200501R2\_15



DPE2

200501R2\_15



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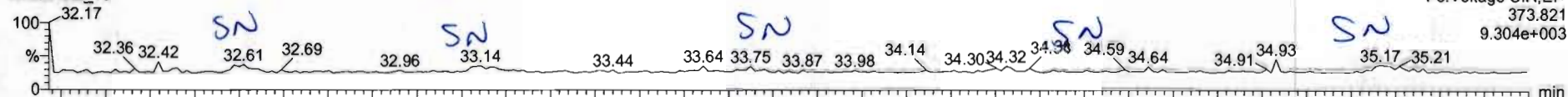
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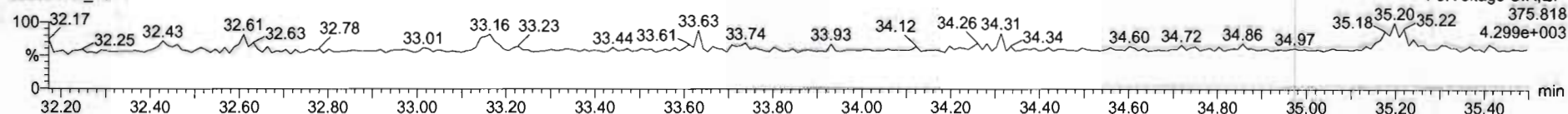
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1,2,3,4,7,8-HxCDF

200501R2\_15

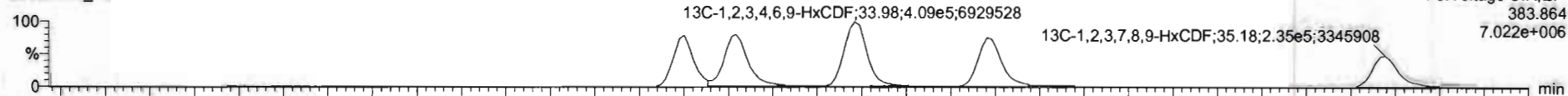


200501R2\_15

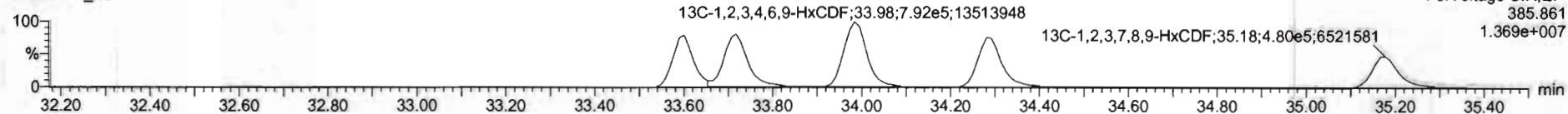


13C-1,2,3,4,7,8-HxCDF

200501R2\_15

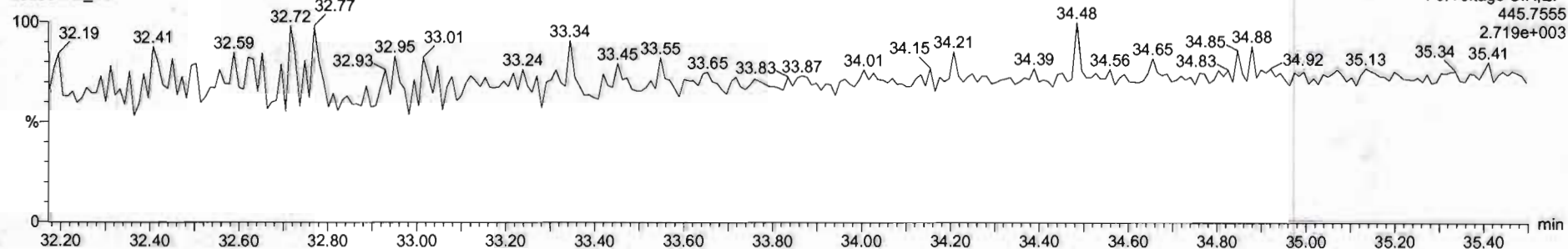


200501R2\_15



DPE3

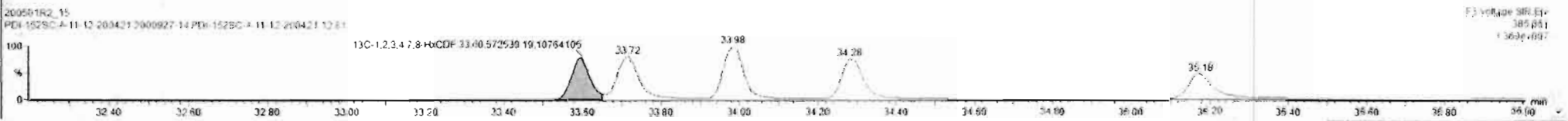
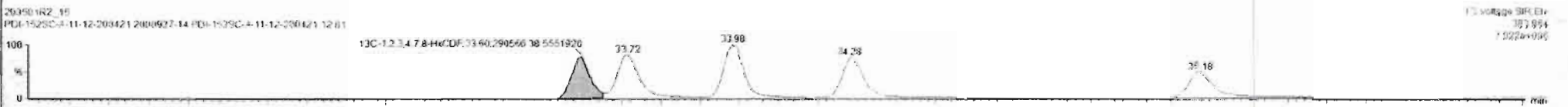
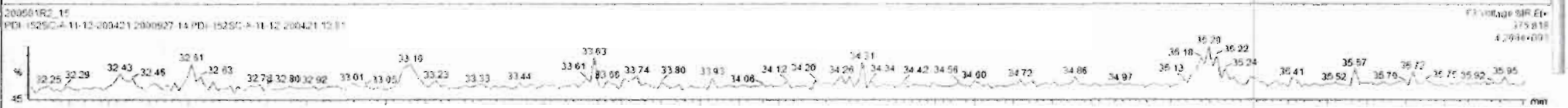
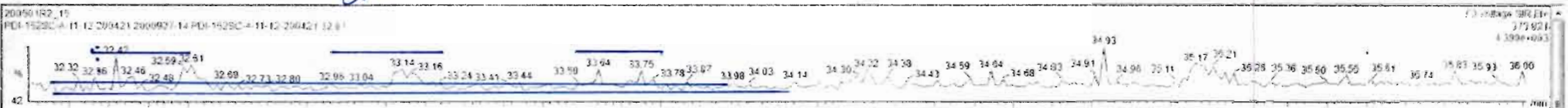
200501R2\_15



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9145	10.008			0.0950		0.0362	0.0650
42	Total Hepta-Dioxine				0.8979	10.008			0.589		0.121	0.589
43	Total Tetra-Furans				0.7671	10.008					0.0242	
44	1st Func. Penta-Furans				0.9102	10.008					0.00634	
45	Total Penta-Furans				0.9102	10.008					0.0263	

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

SN



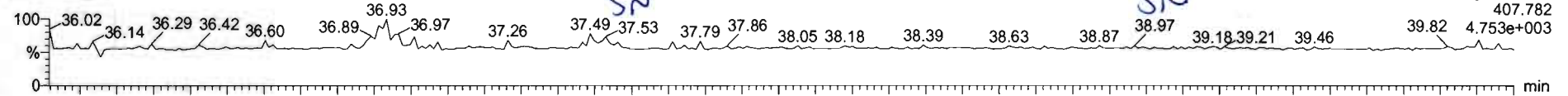
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Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

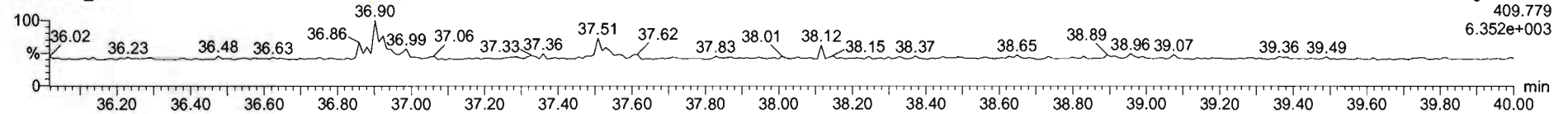
Name: 200501R2\_15, Date: 02-May-2020, Time: 02:09:59, ID: 2000927-14 PDI-152SC-A-11-12-200421 12.81, Description: PDI-152SC-A-11-12-200421

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

200501R2\_15

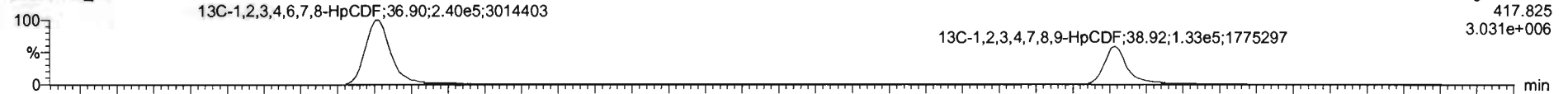


200501R2\_15

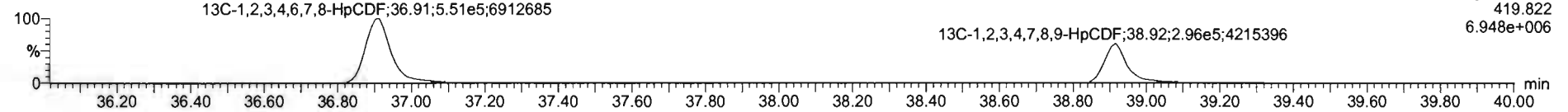


13C-1,2,3,4,6,7,8-HpCDF

200501R2\_15

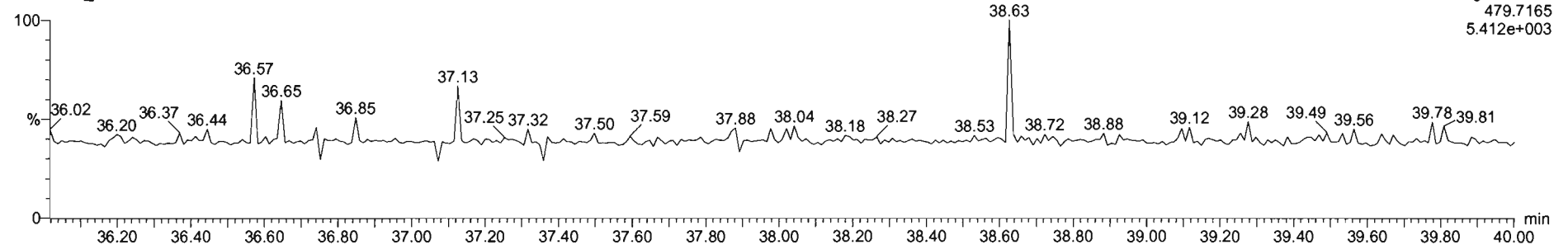


200501R2\_15



DPE4

200501R2\_15

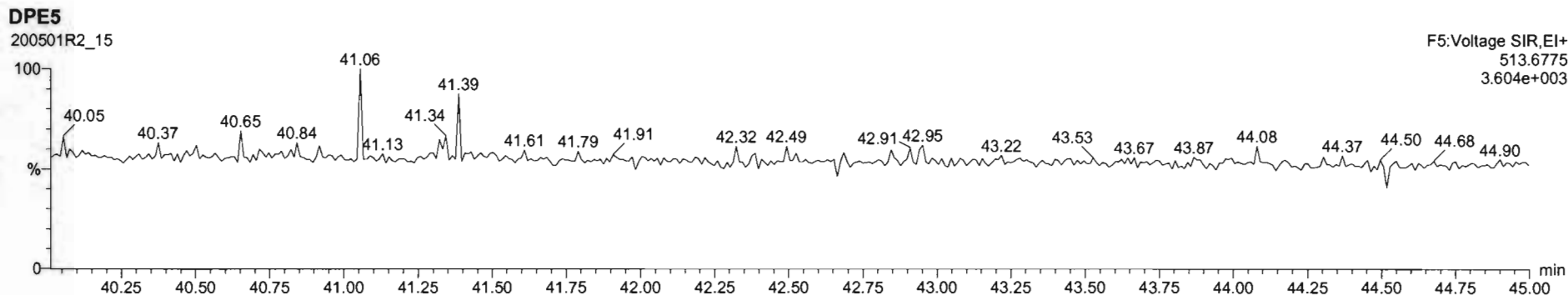
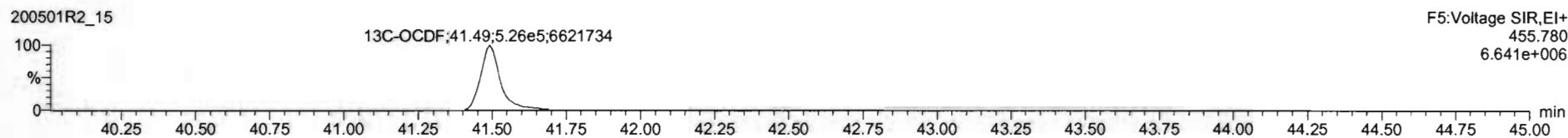
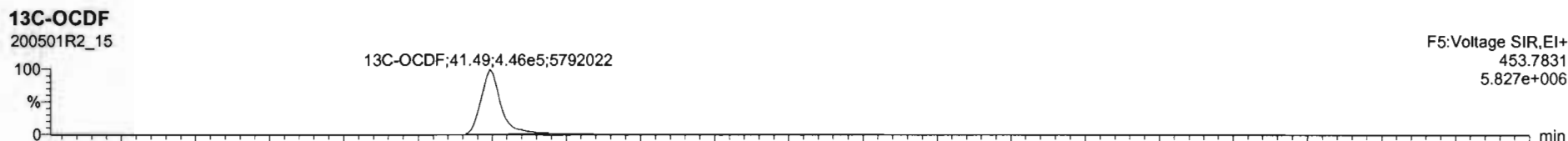
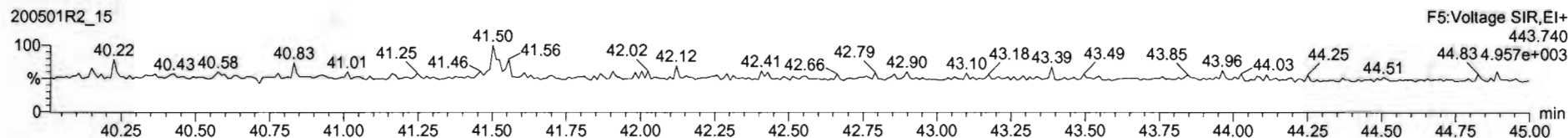
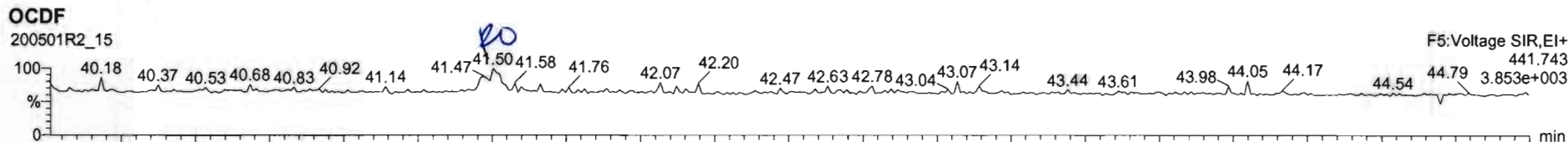




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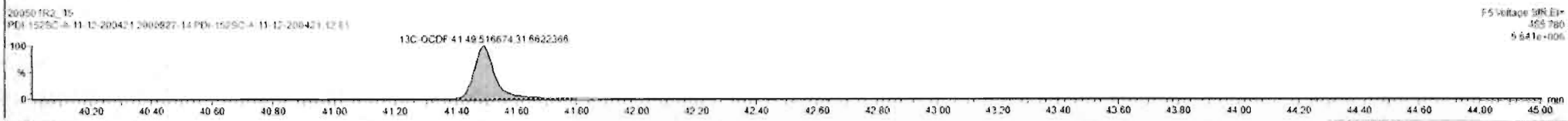
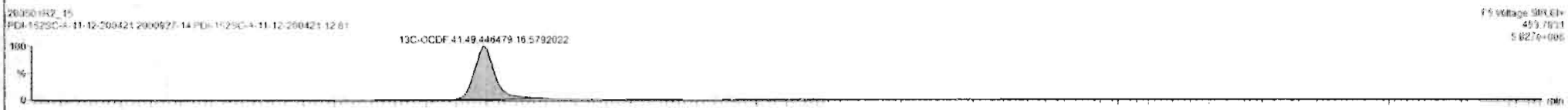
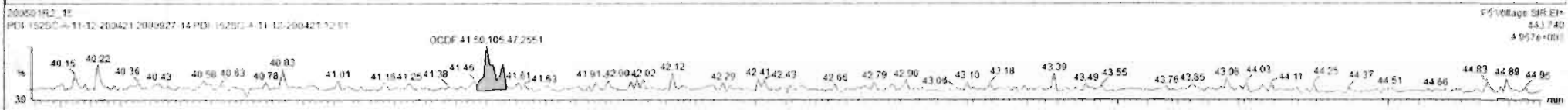
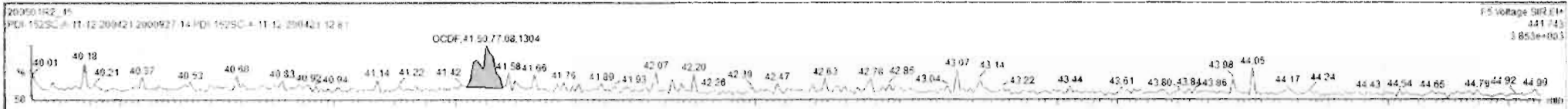
Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_15, Date: 02-May-2020, Time: 02:09:59, ID: 2000927-14 PDI-152SC-A-11-12-200421 12.81, Description: PDI-152SC-A-11-12-200421



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDP	1.83e2	0.73	YES	0.6021	10.008	41.58	1.000	0.0944	0.0240	0.0847
18	13C-2,3,7,8-TCDD	8.28e5	0.79	NO	1.1595	10.008	25.98	1.027	114	57.2	0.196
19	13C-1,2,3,7,8-PeCDD	7.10e5	0.63	NO	0.8472	10.008	31.00	1.228	134	67.1	0.250
20	13C-1,2,3,4,7,8-HxCDD	5.88e5	1.39	NO	0.7496	10.008	24.45	1.014	130	65.3	0.372
21	13C-1,2,3,6,7,8-HxCDD	8.22e5	1.27	NO	0.9630	10.008	34.98	1.017	142	71.1	0.290

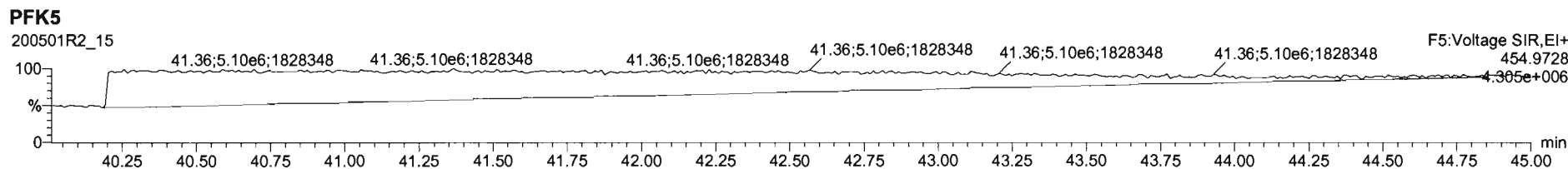
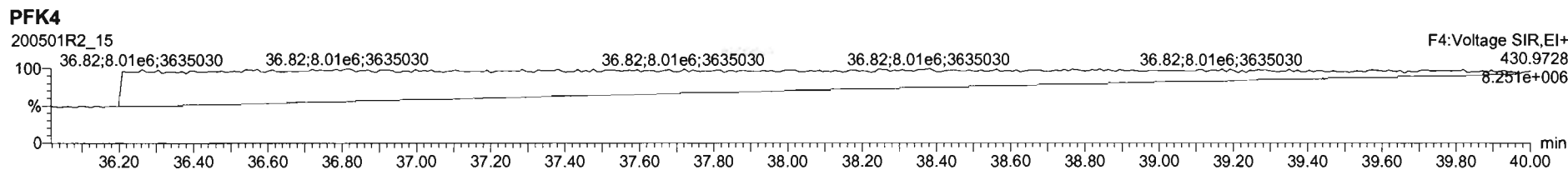
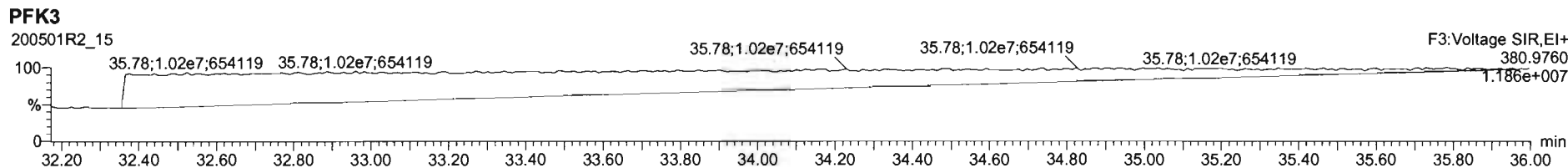
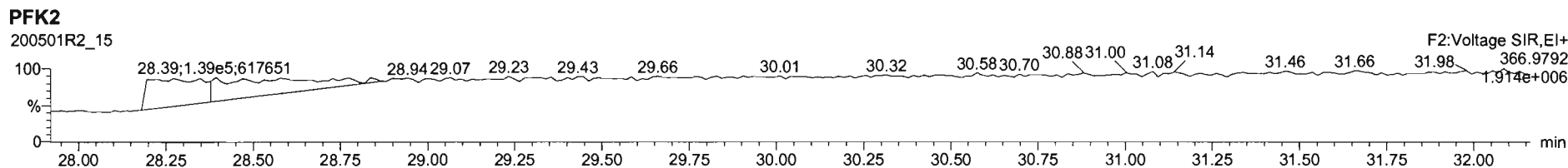
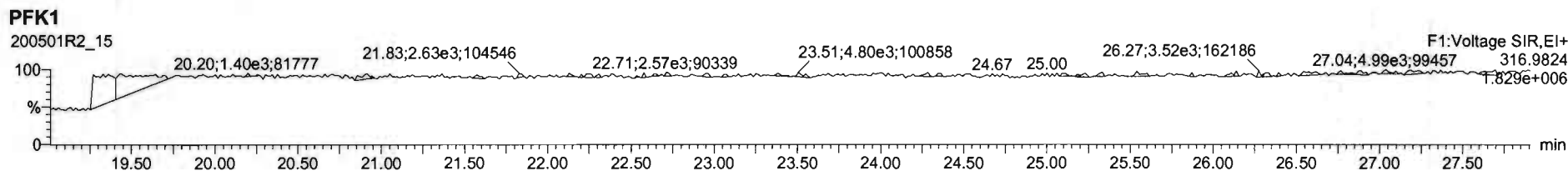
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_15, Date: 02-May-2020, Time: 02:09:59, ID: 2000927-14 PDI-152SC-A-11-12-200421 12.81, Description: PDI-152SC-A-11-12-200421



Dataset: U:\VG12.PRO\Results\200501R2\200501R2-16.qld

Last Altered: Saturday, May 02, 2020 11:25:22 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 11:27:25 AM Pacific Daylight Time

*GPB 05/02/2020*

*C7 05/05/2020*

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

11. ID: 200501R2\_16, Date: 02-May-2020, Time: 02:56:11, ID: 2000927-15 PDI-152SC-A-12-13-200421 11.14, Description: PDI-152SC-A-12-13-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.004	26.006		1.001				0.0730	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.004	31.101		1.001				0.0513	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.004	34.462		1.000				0.0682	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.004	34.559		1.000				0.0659	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.004	34.846		1.000				0.0761	
6	6 1,2,3,4,6,7,8-HpCDD	2.02e3	0.95	NO	0.898	10.004	38.330	38.36	1.000	1.001	0.78706		0.172	0.787
7	7 OCDD	6.60e4	0.89	NO	0.933	10.004	41.322	41.33	1.000	1.000	33.255		0.262	33.3
8	8 2,3,7,8-TCDF			NO	0.787	10.004	25.057		1.001				0.0464	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.004	29.788		1.001				0.0391	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.004	30.790		1.001				0.0360	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.004	33.600		1.000				0.0395	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.004	33.727		1.000				0.0393	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.004	34.316		1.001				0.0421	
14	14 1,2,3,7,8,9-HxCDF	2.38e2	1.37	NO	0.864	10.004	35.177	35.18	1.000	1.000	0.076167		0.0365	0.0762
15	15 1,2,3,4,6,7,8-HpCDF	4.27e2	0.76	YES	0.871	10.004	36.950	36.90	1.001	1.000	0.13154		0.0268	0.111
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.004	38.915		1.000				0.0713	
17	17 OCDF	6.78e2	0.80	NO	0.802	10.004	41.503	41.55	1.000	1.001	0.37303		0.118	0.373
18	18 13C-2,3,7,8-TCDD	9.33e5	0.83	NO	1.16	10.004	25.969	25.98	1.026	1.027	149.31	74.7	0.220	
19	19 13C-1,2,3,7,8-PeCDD	7.88e5	0.63	NO	0.847	10.004	31.049	31.08	1.227	1.228	172.61	86.3	0.358	
20	20 13C-1,2,3,4,7,8-HxCDD	6.21e5	1.29	NO	0.750	10.004	34.463	34.45	1.014	1.014	152.74	76.4	0.443	
21	21 13C-1,2,3,6,7,8-HxCDD	8.22e5	1.25	NO	0.963	10.004	34.575	34.56	1.017	1.017	157.51	78.8	0.345	
22	22 13C-1,2,3,7,8,9-HxCDD	7.42e5	1.25	NO	0.838	10.004	34.844	34.84	1.025	1.025	163.50	81.8	0.397	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.71e5	1.05	NO	0.641	10.004	38.331	38.32	1.128	1.128	164.25	82.2	0.484	
24	24 13C-OCDD	8.49e5	0.90	NO	0.586	10.004	41.321	41.32	1.216	1.216	267.28	66.8	0.525	
25	25 13C-2,3,7,8-TCDF	1.25e6	0.79	NO	1.03	10.004	25.030	25.03	0.989	0.989	143.11	71.6	0.335	
26	26 13C-1,2,3,7,8-PeCDF	1.20e6	1.61	NO	0.845	10.004	29.741	29.77	1.176	1.177	168.42	84.2	0.440	
27	27 13C-2,3,4,7,8-PeCDF	1.14e6	1.58	NO	0.814	10.004	30.731	30.76	1.215	1.216	166.42	83.2	0.457	
28	28 13C-1,2,3,4,7,8-HxCDF	9.09e5	0.51	NO	1.00	10.004	33.603	33.60	0.989	0.989	166.83	83.5	0.709	
29	29 13C-1,2,3,6,7,8-HxCDF	1.08e6	0.51	NO	1.14	10.004	33.726	33.72	0.992	0.992	174.80	87.4	0.627	
30	30 13C-2,3,4,6,7,8-HxCDF	9.57e5	0.53	NO	1.02	10.004	34.293	34.28	1.009	1.009	172.63	86.4	0.697	
31	31 13C-1,2,3,7,8,9-HxCDF	7.24e5	0.51	NO	0.845	10.004	35.184	35.18	1.035	1.035	158.01	79.0	0.843	

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-16.qld

Last Altered: Saturday, May 02, 2020 11:25:22 AM Pacific Daylight Time

Printed: Saturday, May 02, 2020 11:27:25 AM Pacific Daylight Time

Name: 200501R2\_16, Date: 02-May-2020, Time: 02:56:11, ID: 2000927-15 PDI-152SC-A-12-13-200421 11.14, Description: PDI-152SC-A-12-13-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.46e5	0.44	NO	0.771	10.004	36.913	36.91	1.086	1.086	178.37	89.2	0.660	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.32e5	0.41	NO	0.482	10.004	38.922	38.92	1.145	1.145	165.29	82.7	1.05	
34	34 13C-OCDF	9.06e5	0.89	NO	0.669	10.004	41.491	41.50	1.221	1.221	250.14	62.6	0.447	
35	35 37Cl-2,3,7,8-TCDD	3.74e5			1.10	10.004	25.999	26.00	1.028	1.028	63.193	79.0	0.0519	
36	36 13C-1,2,3,4-TCDD	1.08e6	0.80	NO	1.00	10.004	25.350	25.30	1.000	1.000	199.91	100	0.255	
37	37 13C-1,2,3,4-TCDF	1.69e6	0.80	NO	1.00	10.004	23.560	23.52	1.000	1.000	199.91	100	0.346	
38	38 13C-1,2,3,4,6,9-HxCDF	1.08e6	0.52	NO	1.00	10.004	34.000	33.98	1.000	1.000	199.91	100	0.712	
39	39 Total Tetra-Dioxins				0.947	10.004	24.620		0.000				0.0483	
40	40 Total Penta-Dioxins				0.942	10.004	29.960		0.000				0.0202	
41	41 Total Hexa-Dioxins				0.915	10.004	33.635		0.000		0.20354		0.0732	0.204
42	42 Total Hepta-Dioxins				0.898	10.004	37.640		0.000		1.6280		0.172	1.63
43	43 Total Tetra-Furans				0.787	10.004	23.610		0.000				0.0209	
44	44 1st Func. Penta-Furans				0.910	10.004	27.090		0.000				0.0114	
45	45 Total Penta-Furans				0.910	10.004	29.275		0.000				0.0170	
46	46 Total Hexa-Furans				0.922	10.004	33.555		0.000		0.090523		0.0235	0.0905
47	47 Total Hepta-Furans				0.871	10.004	37.835		0.000		0.00000		0.0351	0.111

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-16.qld

Last Altered: Saturday, May 02, 2020 11:25:22 AM Pacific Daylight Time  
 Printed: Saturday, May 02, 2020 11:27:25 AM Pacific Daylight Time

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

Name: 200501R2\_16, Date: 02-May-2020, Time: 02:56:11, ID: 2000927-15 PDI-152SC-A-12-13-200421 11.14, Description: PDI-152SC-A-12-13-200421

**Tetra-Dioxins**

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

**Penta-Dioxins**

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

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.99	6.615e3	6.897e3	3.571e2	3.212e2	1.11	NO	6.783e2	0.20354	0.20354	0.0732

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.32	1.547e4	1.300e4	1.154e3	1.003e3	1.15	NO	2.157e3	0.84099	0.84099	0.172
2	1,2,3,4,6,7,8-HpCDD	38.36	1.179e4	1.249e4	9.830e2	1.036e3	0.95	NO	2.019e3	0.78706	0.78706	0.172

**Tetra-Furans**

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

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-16.qld

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Printed: Saturday, May 02, 2020 11:27:25 AM Pacific Daylight Time

Name: 200501R2\_16, Date: 02-May-2020, Time: 02:56:11, ID: 2000927-15 PDI-152SC-A-12-13-200421 11.14, Description: PDI-152SC-A-12-13-200421

**Penta-Furans**

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

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.18	2.752e3	1.972e3	1.379e2	1.003e2	1.37	NO	2.382e2	0.076167	0.076167	0.0365
2	Total Hexa-Furans	35.25	1.263e3	7.560e2	3.353e1	2.713e1	1.24	NO	6.066e1	0.014356	0.014356	0.0235

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.90	3.037e3	2.538e3	1.847e2	2.427e2	0.76	YES	4.274e2	0.00000	0.1115C	0.0288

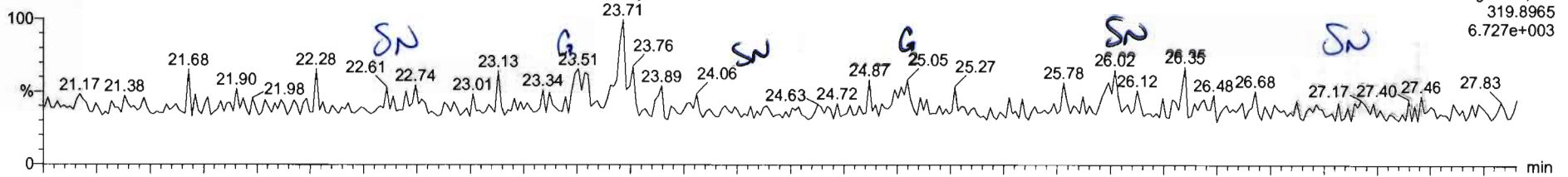
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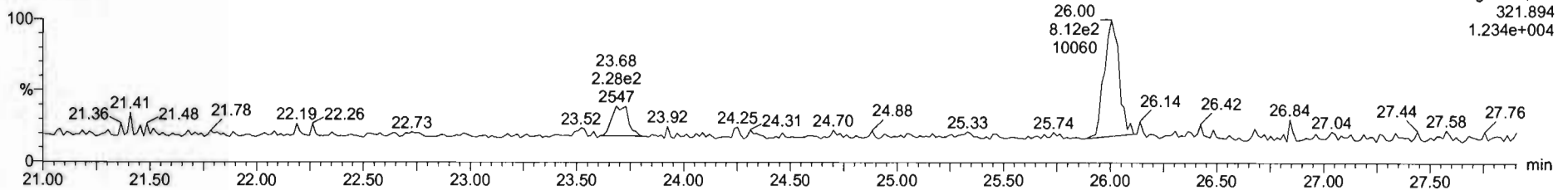
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2,3,7,8-TCDD

200501R2\_16

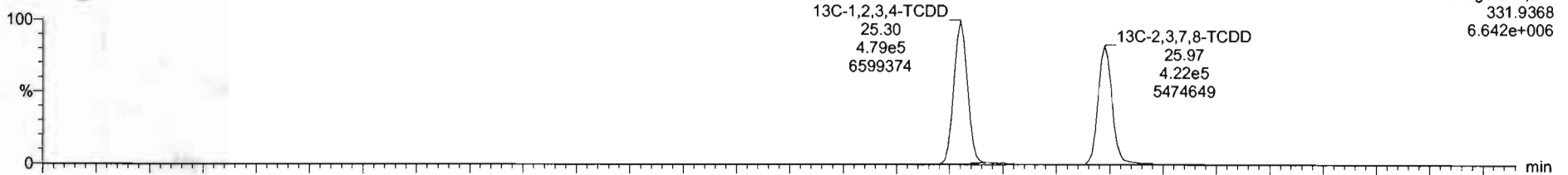


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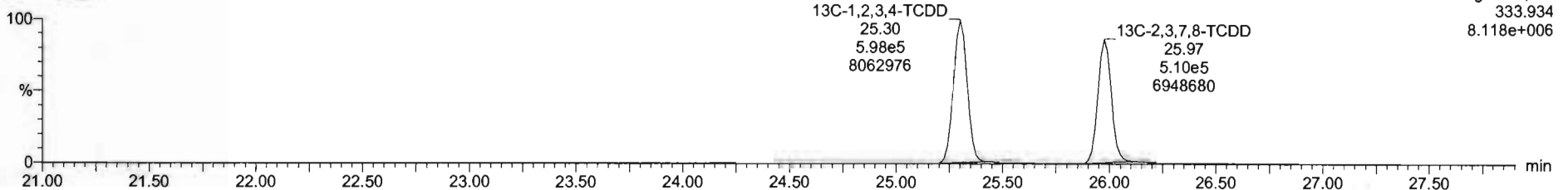


13C-2,3,7,8-TCDD

200501R2\_16



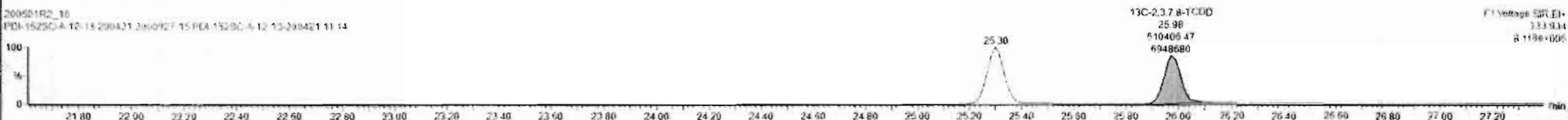
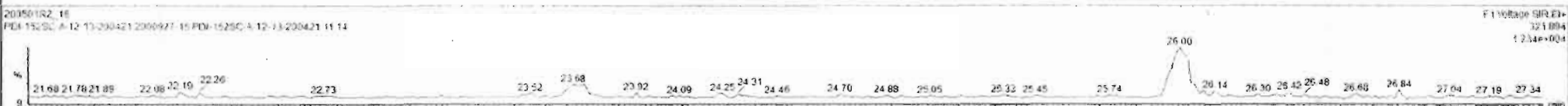
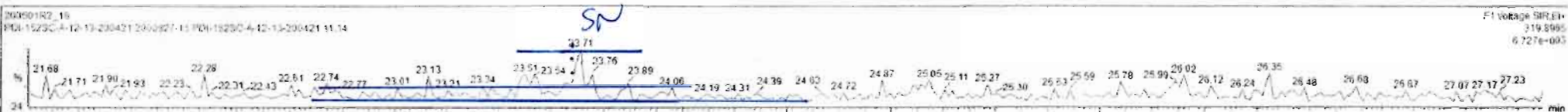
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#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
39	Total Tetra-Chlorins		9.33e5				0.9475	24.62		NO	0.000				NO
40	Total Penta-Chlorins		7.88e4				0.9425	29.98		NO	0.000				NO
41	Total Hexa-Chlorins		0.00e0				0.9145	33.63		NO	0.000		0.209		NO
42	Total Hepta-Chlorins		5.61e5				0.8979	37.84		NO	0.000		0.731		NO

#	Name	RT	int Resp	int2 Resp	RA	nly	EMPC	Conc.
1								



Custom Reporting: Select reports to generate

200501R2\_16

CAP NUM

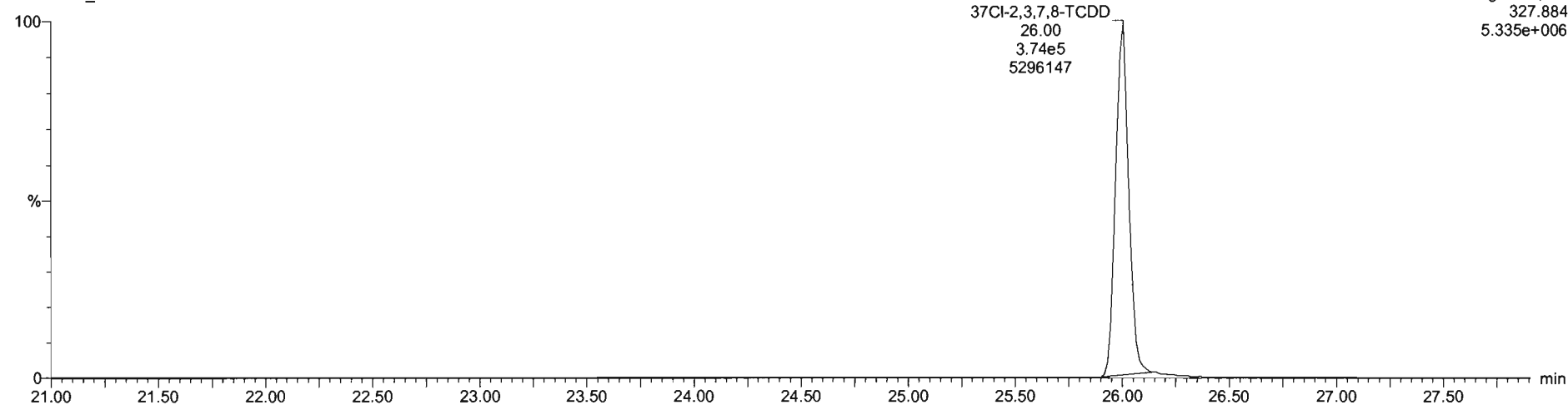
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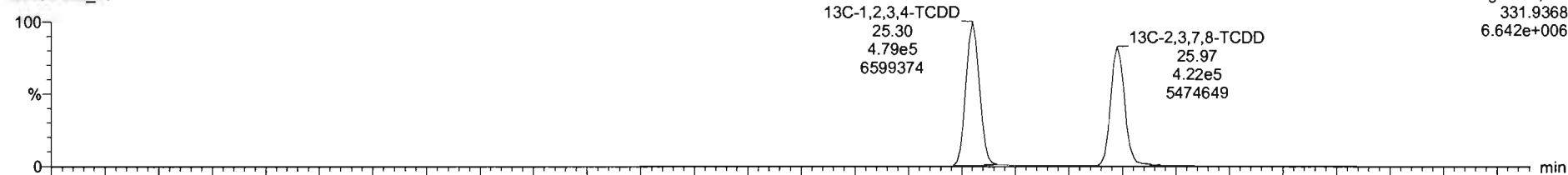
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200501R2\_16

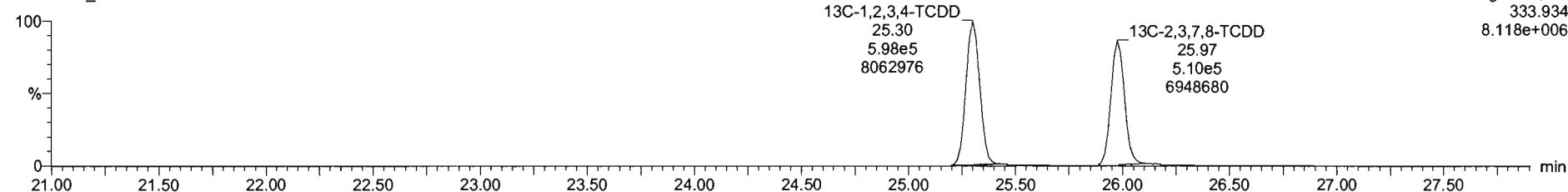


**13C-1,2,3,4-TCDD**

200501R2\_16



200501R2\_16



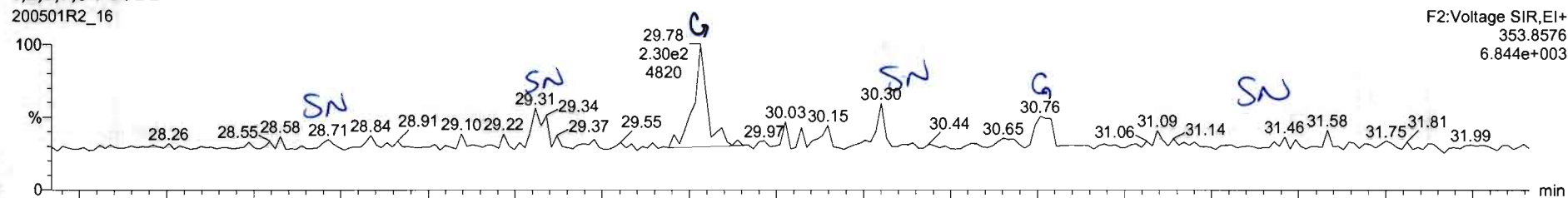
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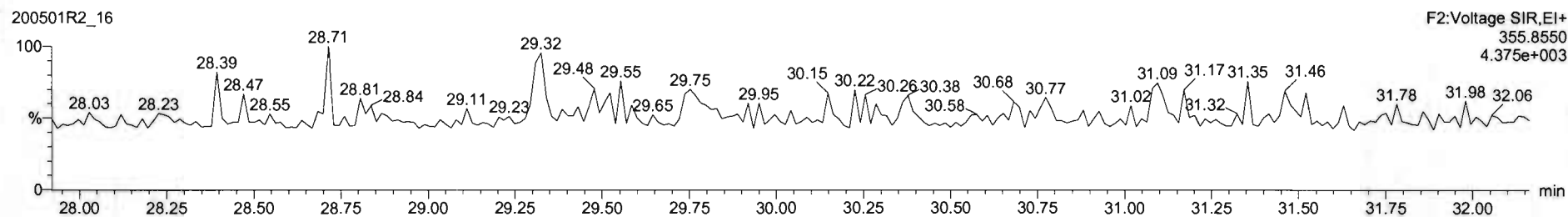
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1,2,3,7,8-PeCDD

200501R2\_16

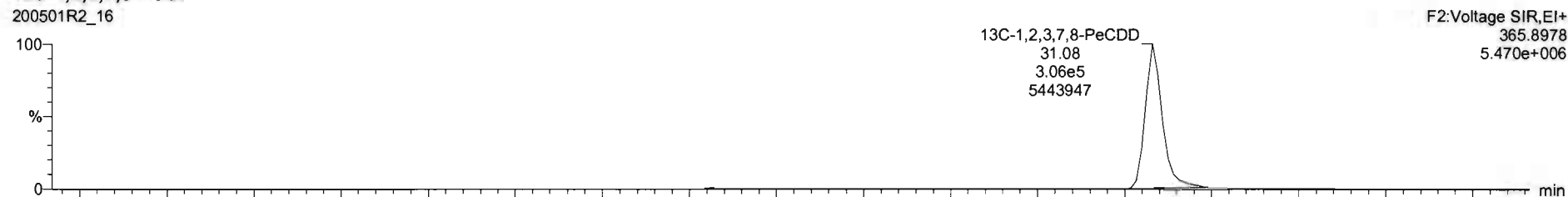


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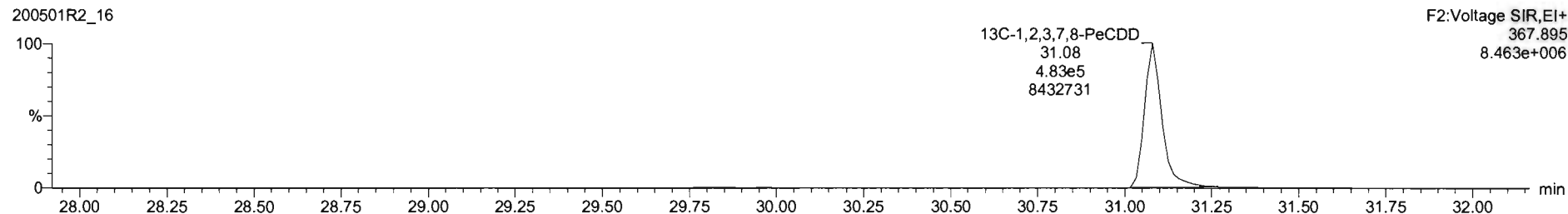


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200501R2\_16



200501R2\_16



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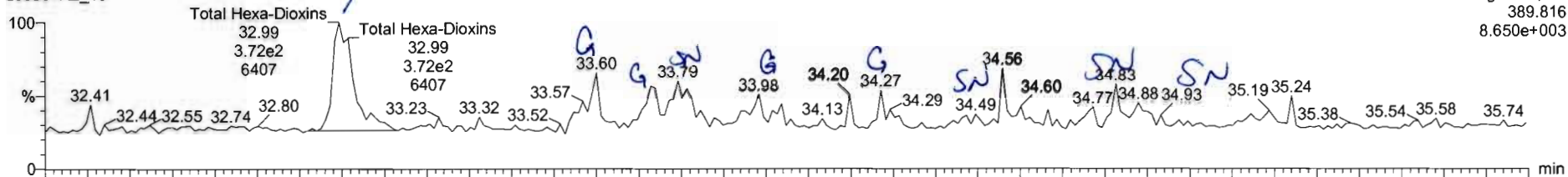
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1,2,3,4,7,8-HxCDD

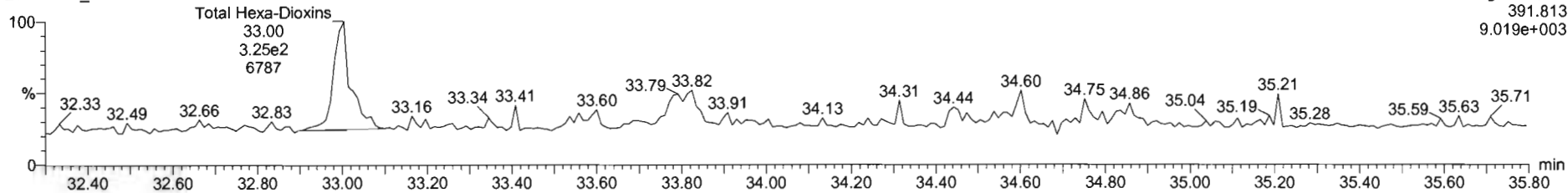
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F3:Voltage SIR,EI+  
389.816  
8.650e+003



200501R2\_16

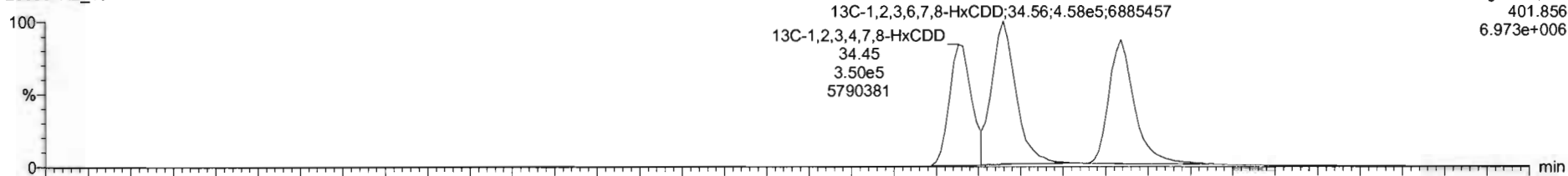
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13C-1,2,3,4,7,8-HxCDD

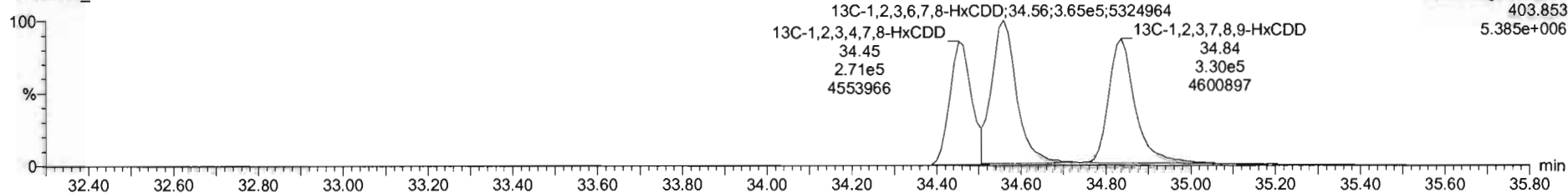
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401.856  
6.973e+006



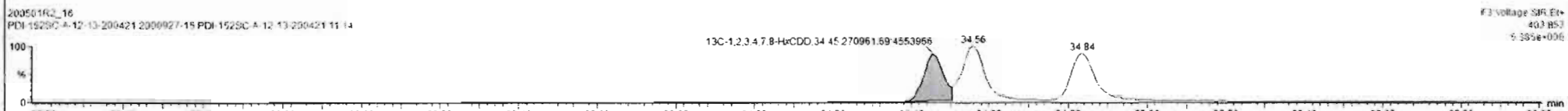
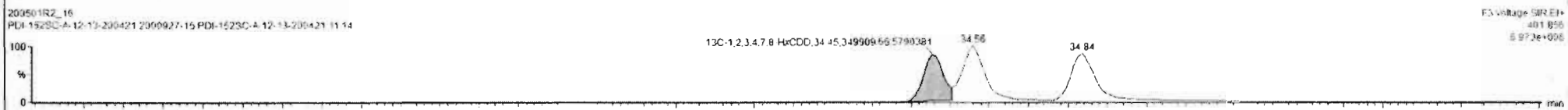
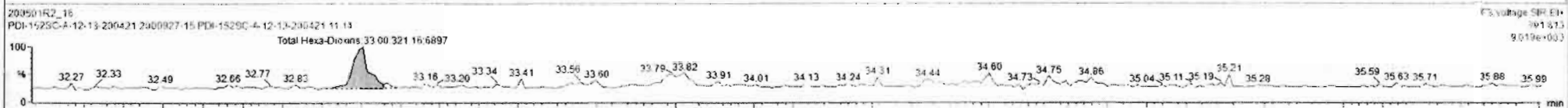
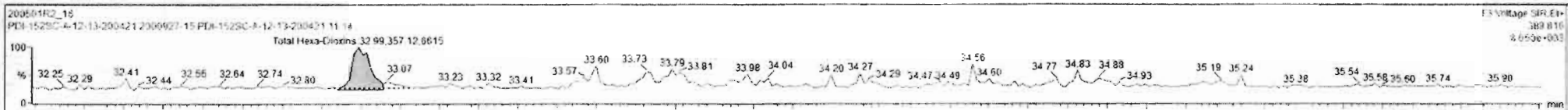
200501R2\_16

F3:Voltage SIR,EI+  
403.853  
5.385e+006



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
39	Total Tetra-Dioxins		9.33e5				0.9475	24.62		NO	0.000				NO
40	Total Penta-Dioxins		7.88e5				0.9425	29.96		NO	0.000				NO
41	Total Hexa-Dioxins		6.00e5				0.9145	33.63		NO	0.005		0.264		NO
42	Total Hepta-Dioxins		5.61e5				0.8979	37.84		NO	0.000		0.731		NO

#	Name	RT	int Resp	int2 Resp	RA	nly	EMPC	Conc.
1	41 Total Hexa-Dioxins	32.99	3.571e2	3.212e2	1.11	NO	0.20354	0.20354



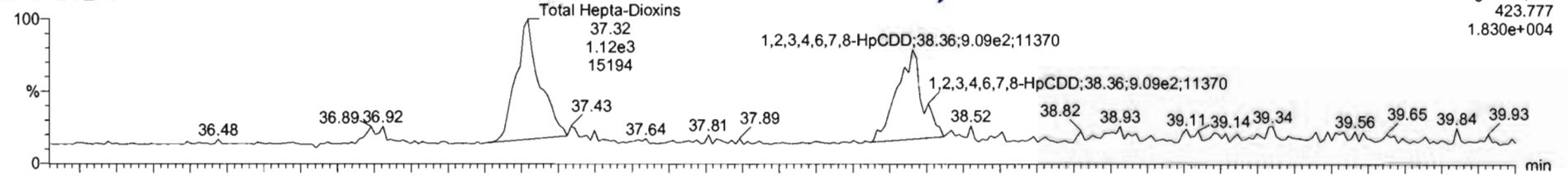
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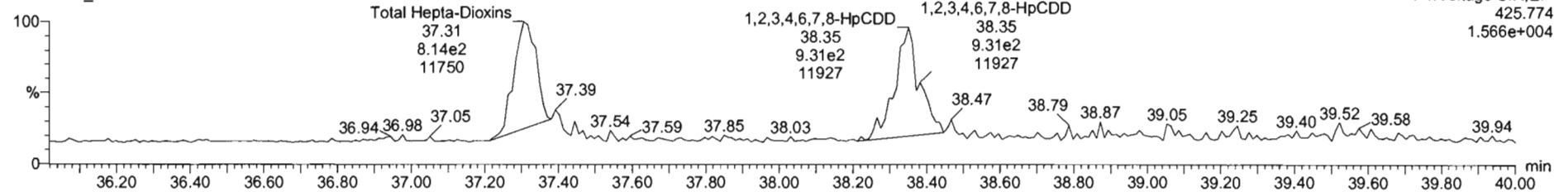
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**1,2,3,4,6,7,8-HpCDD**

200501R2\_16

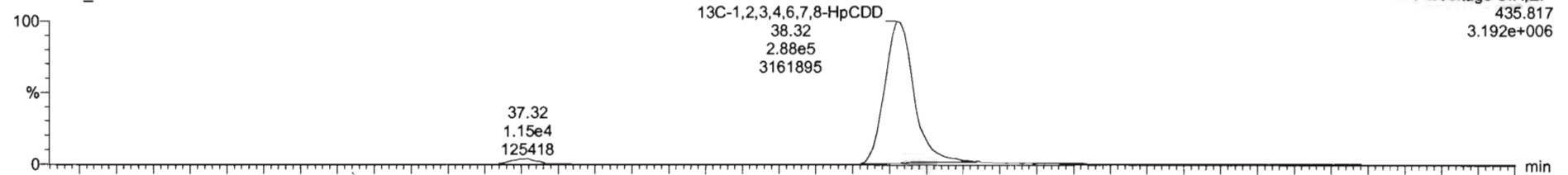


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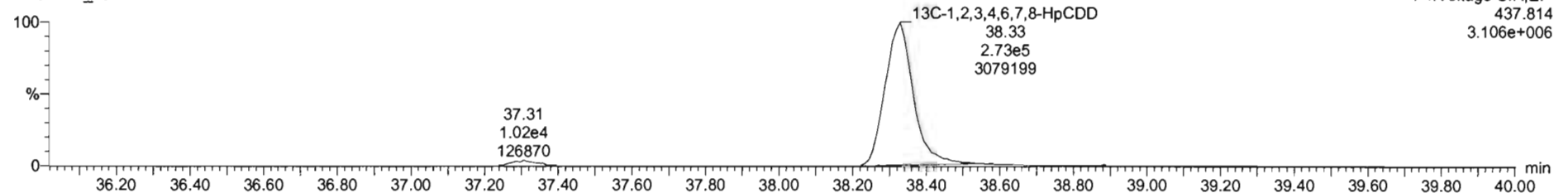


**13C-1,2,3,4,6,7,8-HpCDD**

200501R2\_16

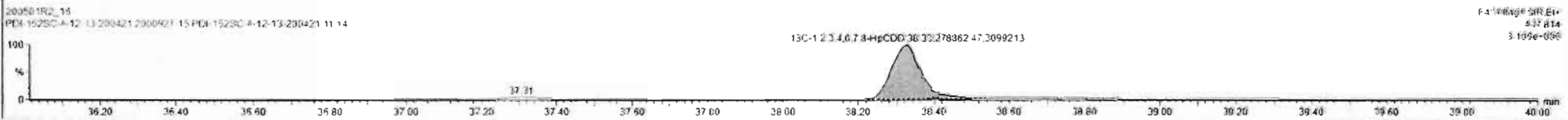
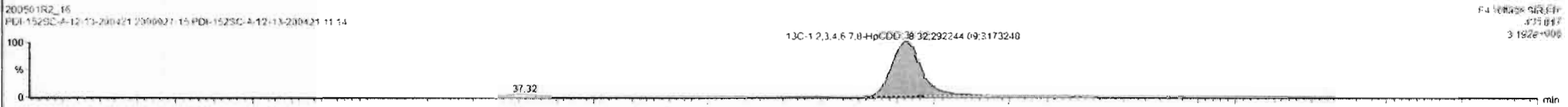
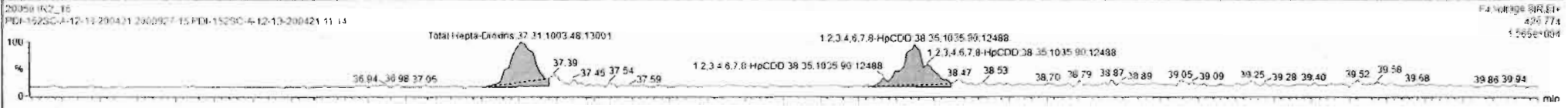
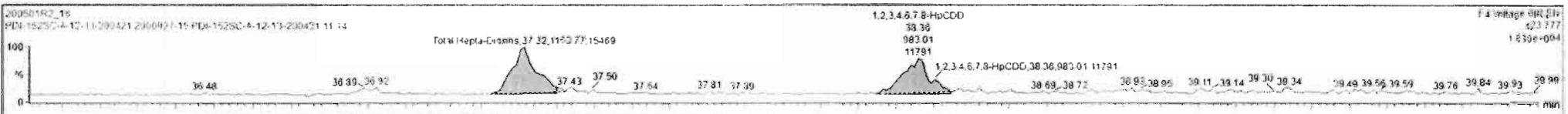


200501R2\_16



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
39	Total Tetra-Dioxins		9.33e5				0.9475	24.52		NO	0.000				NO
40	Total Penta-Dioxins		7.88e5				0.9425	29.98		NO	0.000				NO
41	Total Hexa-Dioxins		0.00e0				0.9145	33.53		NO	0.000		0.204		NO
42	Total Hepta-Dioxins		5.71e5				0.8979	37.64		NO	0.000		1.63		NO

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	42 Total Hepta-Dioxins	37.32	1.154e3	1.003e3	1.15	NO	0.84099	0.84099
2	6 1,2,3,4,6,7,8-HpCDD	38.36	9.830e2	1.038e3	0.55	NO	0.78706	0.76706

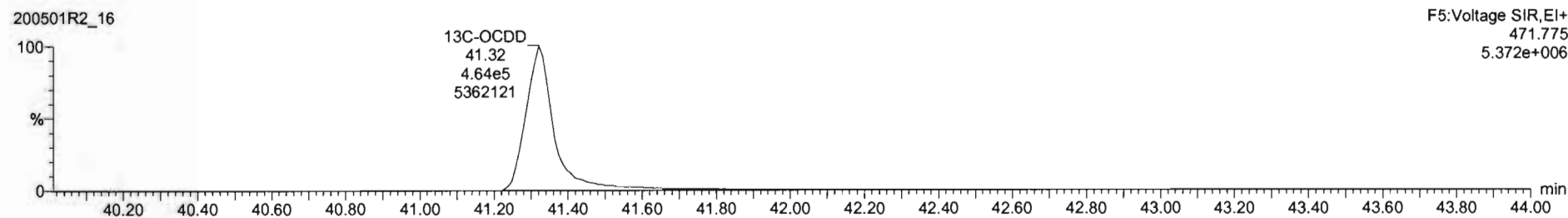
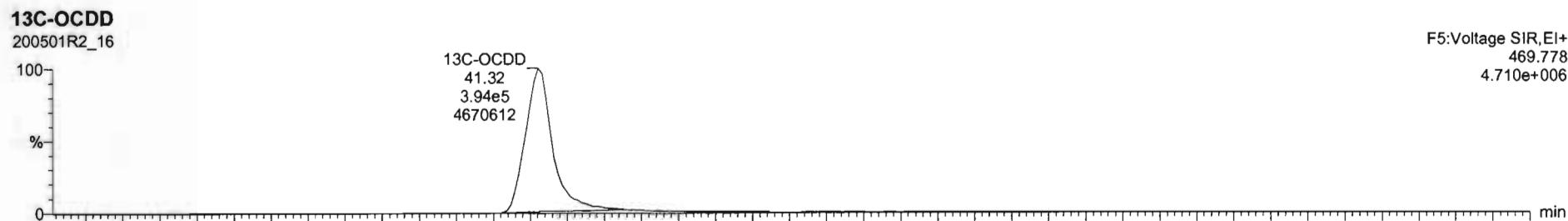
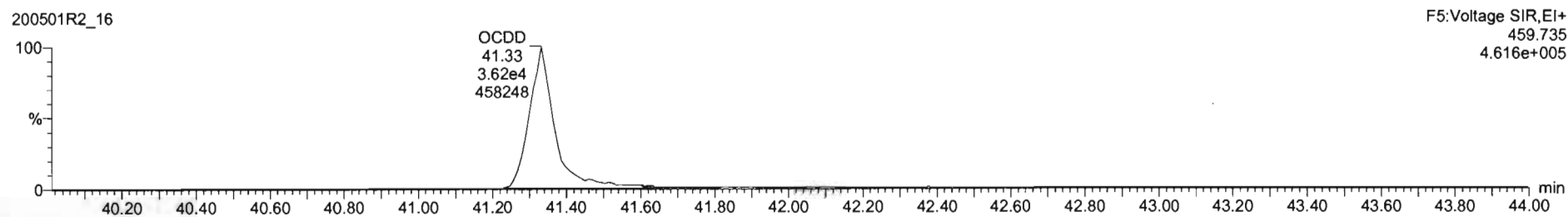


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#	Name	Resp	IS Resp	Pred RA	RA	n/y	RR7	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
5	1,2,3,7,8,9-HxCDD	7.42e5	1.24			NO	0.9149	34.85		NO	1.000				NO
6	1,2,3,4,6,7,8-HpCDD	1.84e3	5.81e2	1.04	0.98	NO	0.8979	38.33	38.36	NO	1.000	1.001	0.731		NO
7	OCDD	6.60e4	8.45e5	0.58	0.69	NO	0.9335	41.32	41.33	NO	1.005	1.000	33.3		NO
8	2,3,7,8-TCDF	1.25e4	0.77			NO	0.7971	25.06		NO	1.001				NO

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

200501R2\_16 PDI-152SC-A-12-13-200421 2000927-16 PDI-152SC-A-12-13-200421 11 14 F5 Voltage SIR.EI+ 457.736 3.861e+005



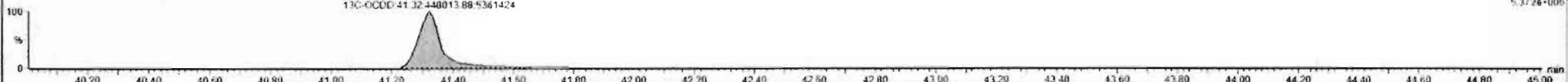
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200501R2\_16 PDI-152SC-A-12-13-200421 2000927-16 PDI-152SC-A-12-13-200421 11 14 F5 Voltage SIR.EI+ 469.778 4.710e+005



200501R2\_16 PDI-152SC-A-12-13-200421 2000927-16 PDI-152SC-A-12-13-200421 11 14 F5 Voltage SIR.EI+ 471.775 5.372e+006



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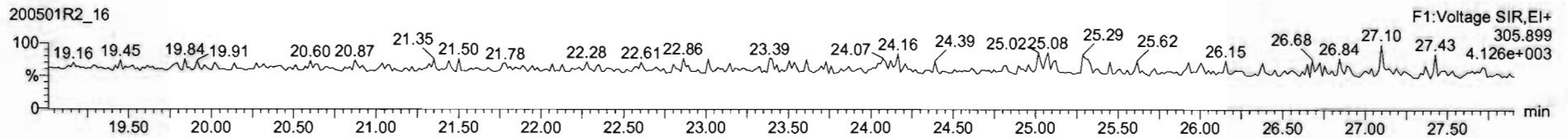
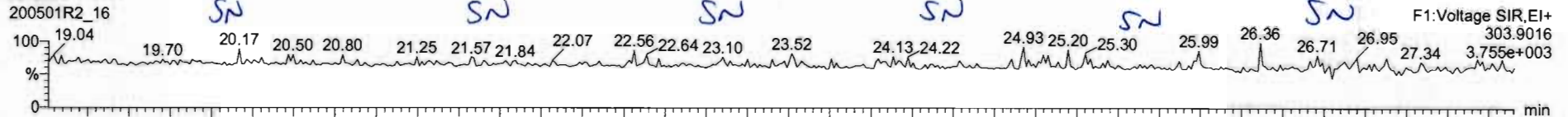
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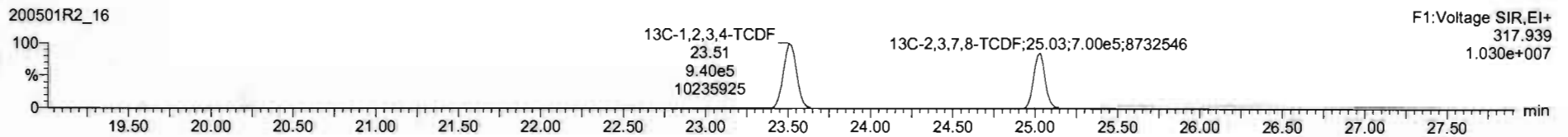
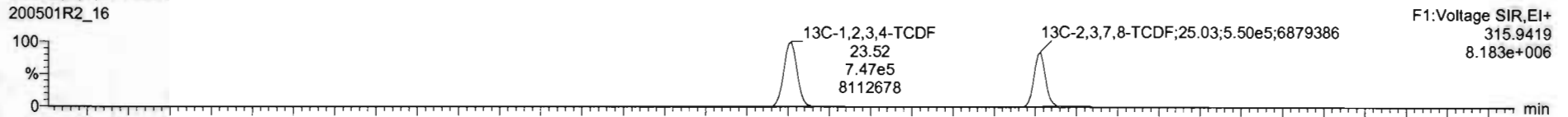
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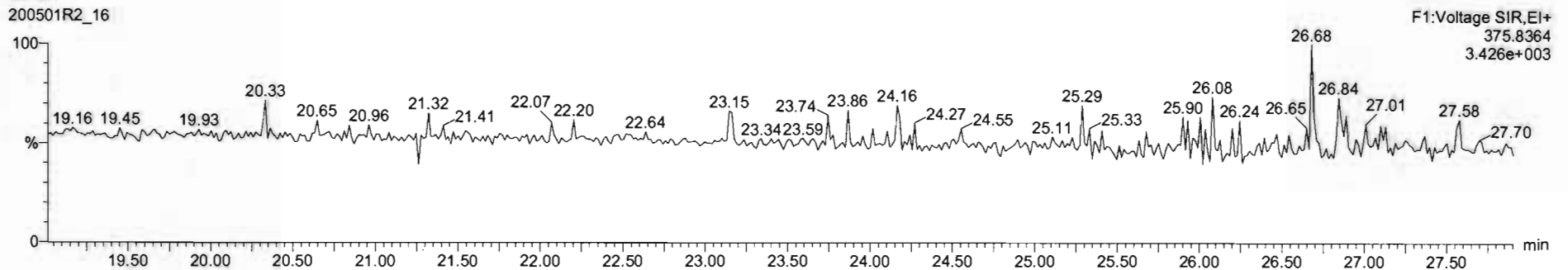
**2,3,7,8-TCDF**



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



**DPE1**



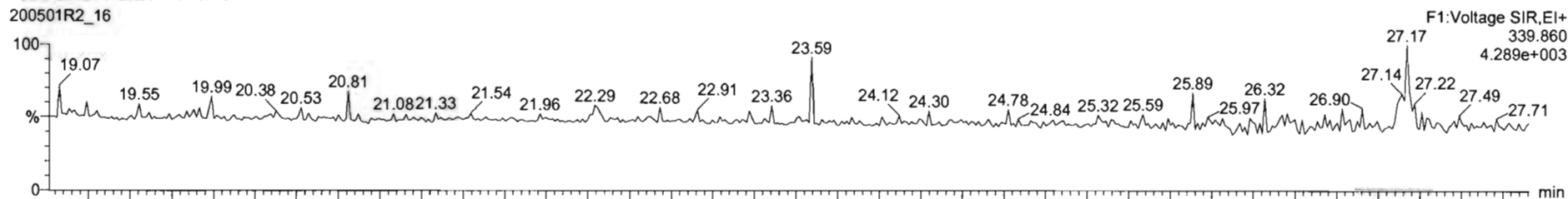
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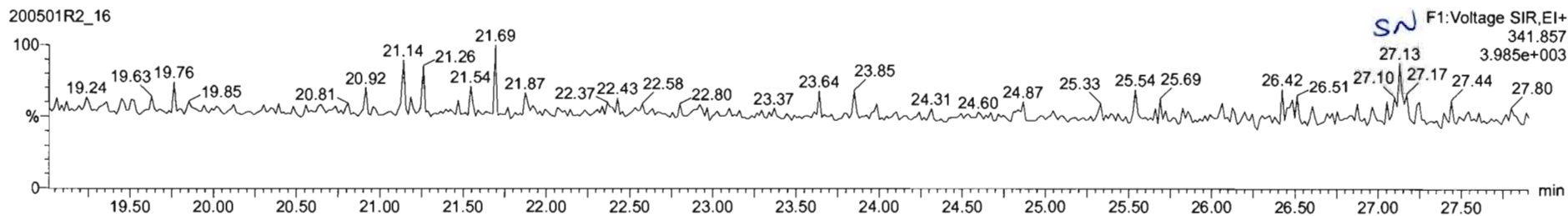
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1st Func. Penta-Furans

200501R2\_16

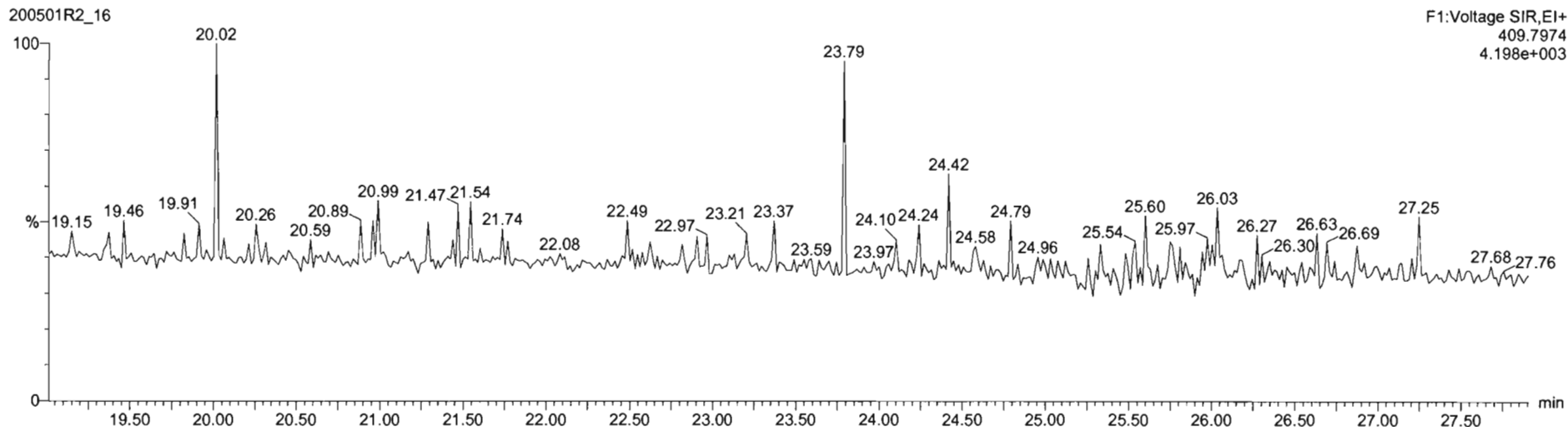


200501R2\_16



DPE6

200501R2\_16



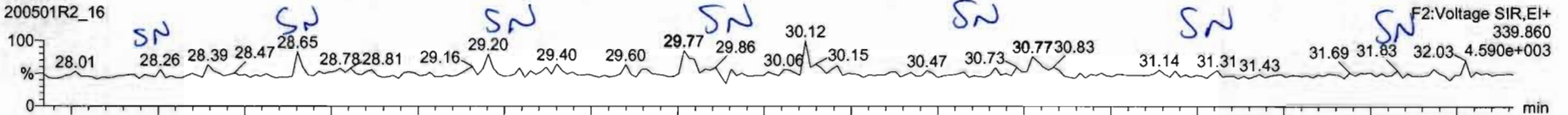
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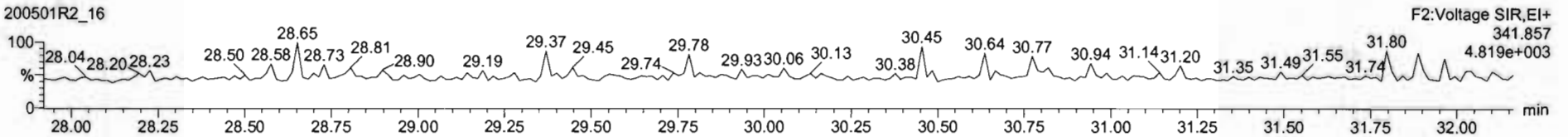
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**1,2,3,7,8-PeCDF**

200501R2\_16

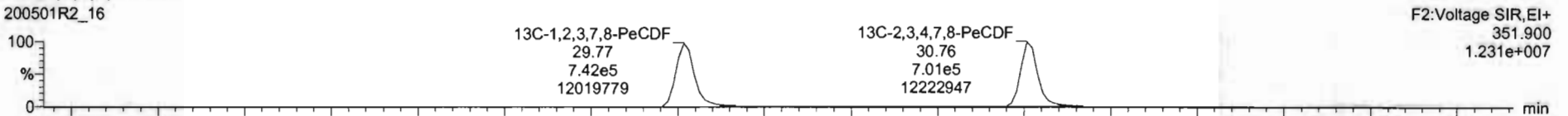


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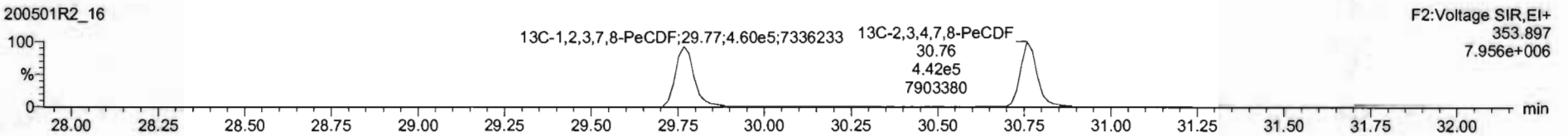


**13C-1,2,3,7,8-PeCDF**

200501R2\_16

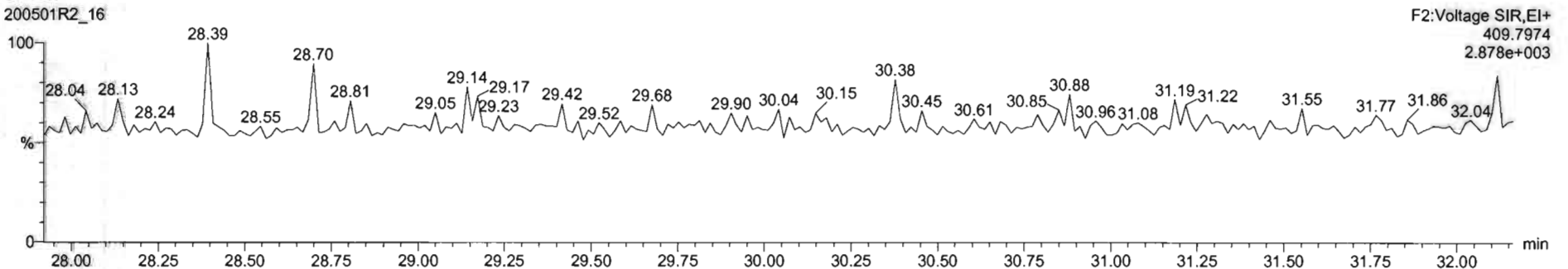


200501R2\_16



**DPE2**

200501R2\_16

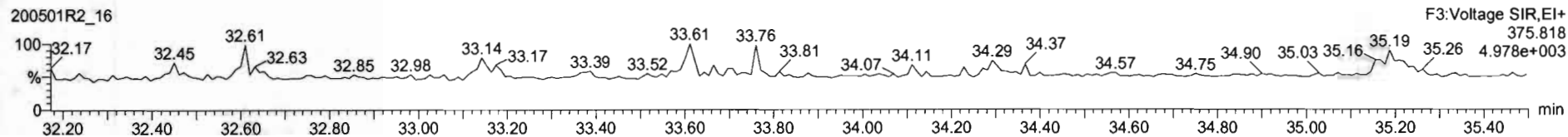


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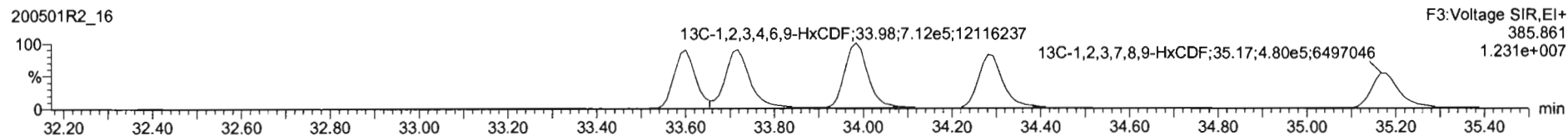
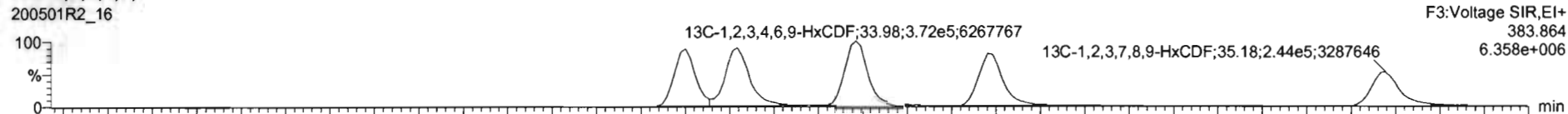
Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_16, Date: 02-May-2020, Time: 02:56:11, ID: 2000927-15 PDI-152SC-A-12-13-200421 11.14, Description: PDI-152SC-A-12-13-200421

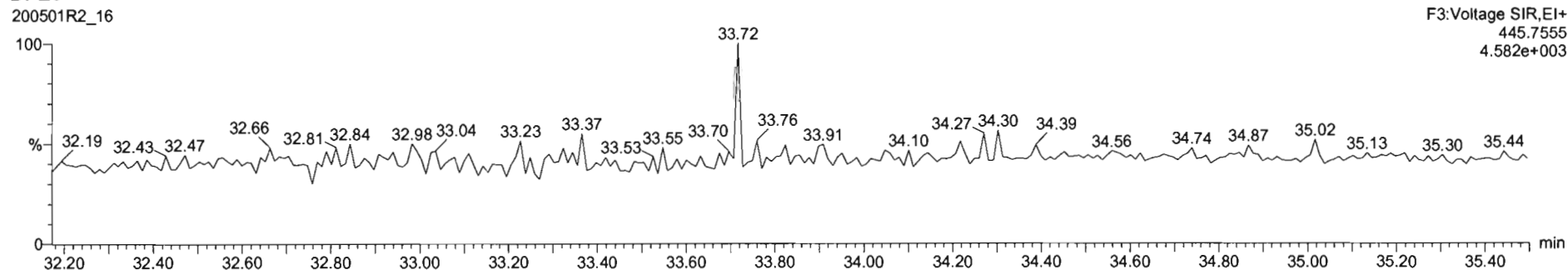
**1,2,3,4,7,8-HxCDF**

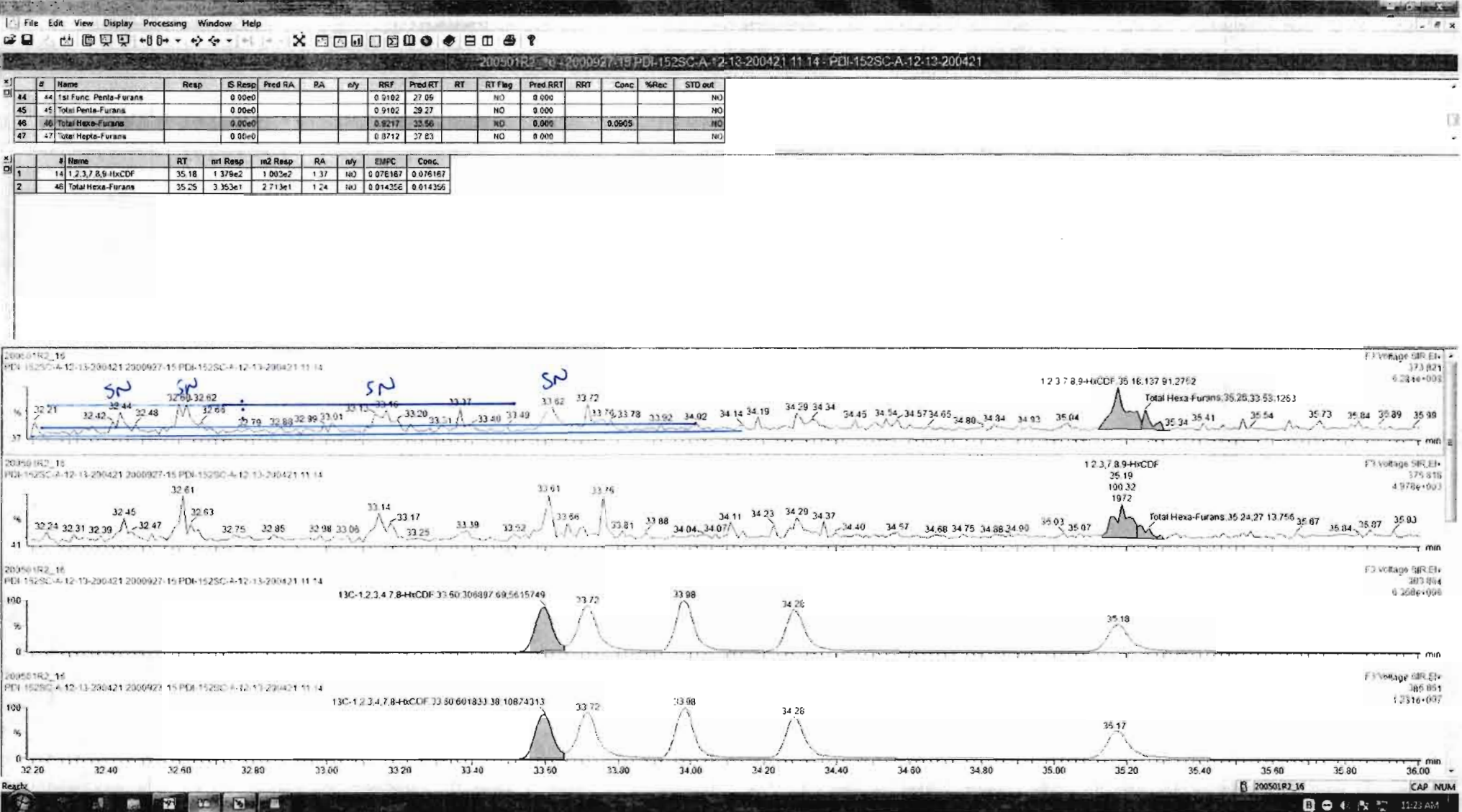


**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



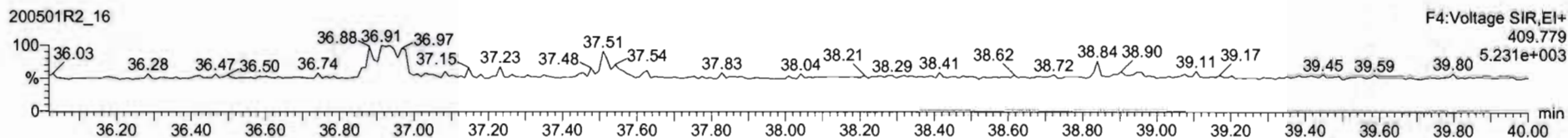
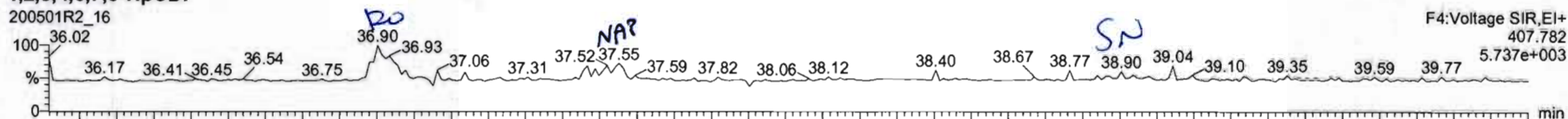


Dataset: Untitled

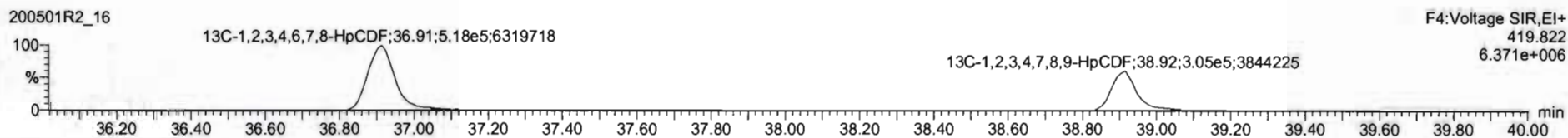
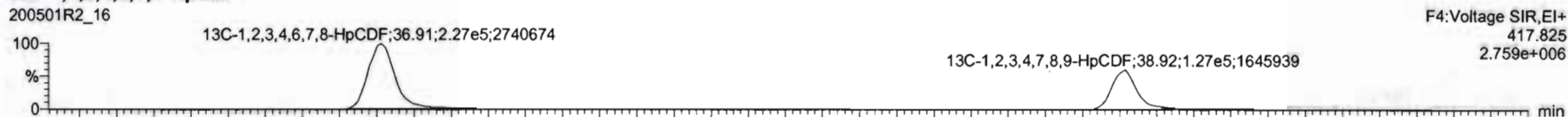
Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_16, Date: 02-May-2020, Time: 02:56:11, ID: 2000927-15 PDI-152SC-A-12-13-200421 11.14, Description: PDI-152SC-A-12-13-200421

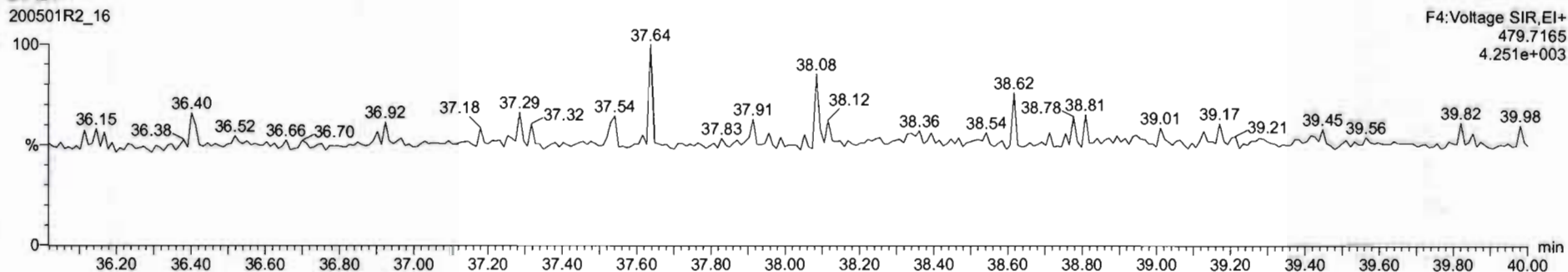
1,2,3,4,6,7,8-HpCDF



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

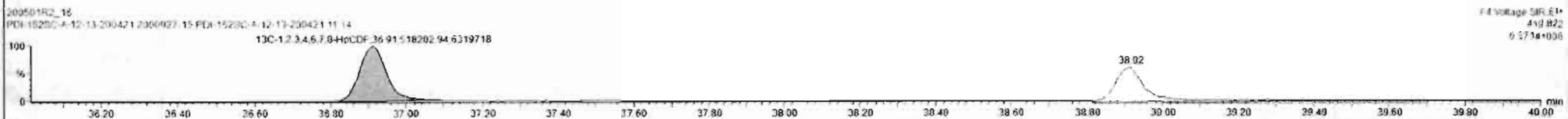
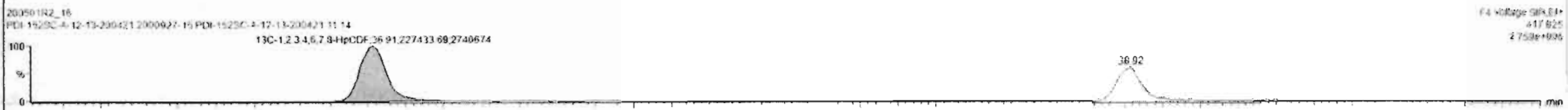
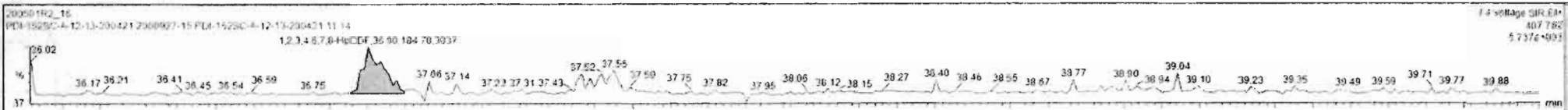


DPE4



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
44	1st Func. Penta-Furans		0.00e0				0.9102	27.05		NO	0.000				NO
45	Total Penta-Furans		0.00e0				0.9102	29.27		NO	0.000				NO
46	Total Hexa-Furans		0.00e0				0.9217	33.56		NO	0.000		0.0505		NO
47	Total Hepta-Furans		0.00e0				0.8712	37.63		NO	0.000		0.000		NO

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	15 1,2,3,4,6,7,8-HpCDF	36.90	1.347e2	2.427e2	0.76	YES	0.11150	0.00000

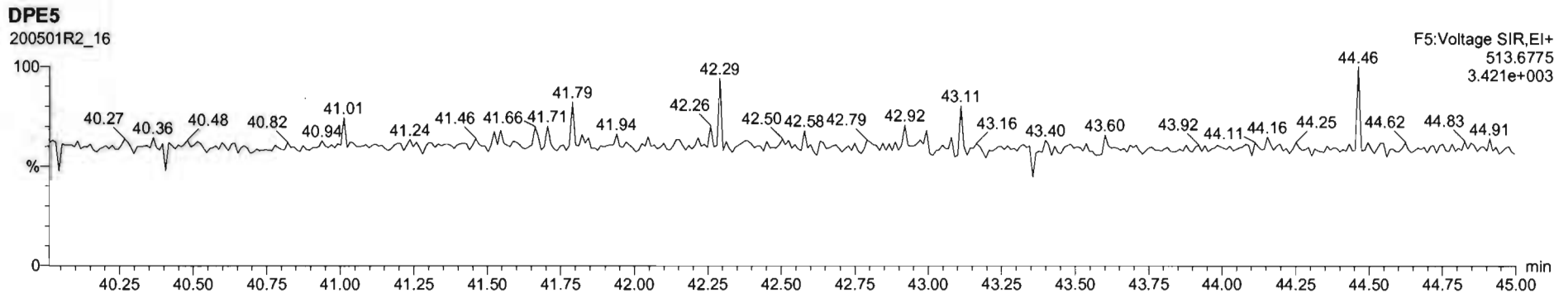
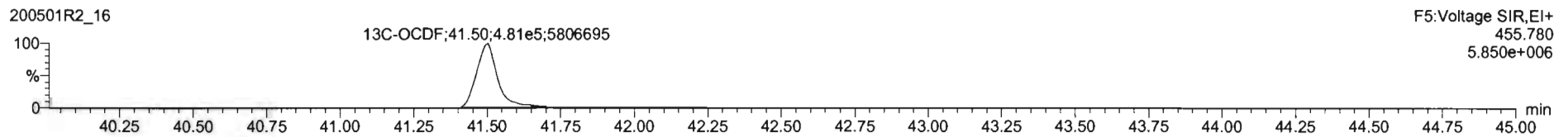
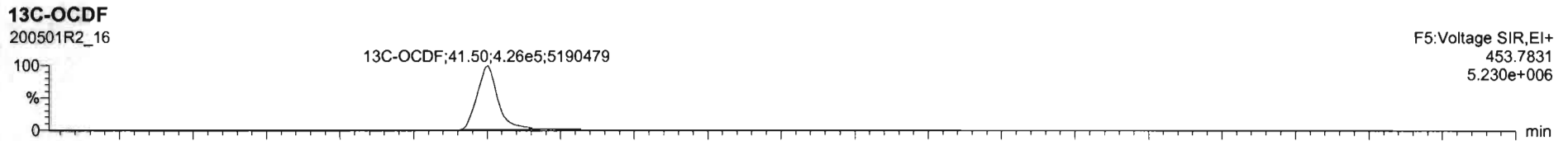
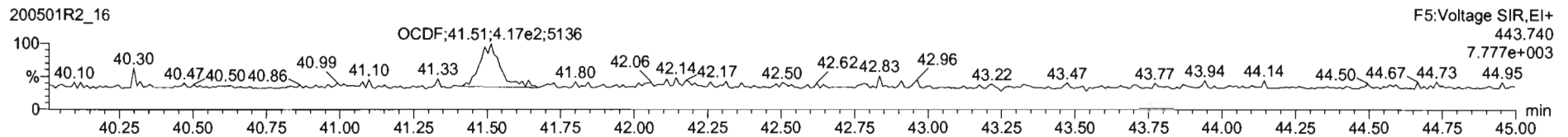
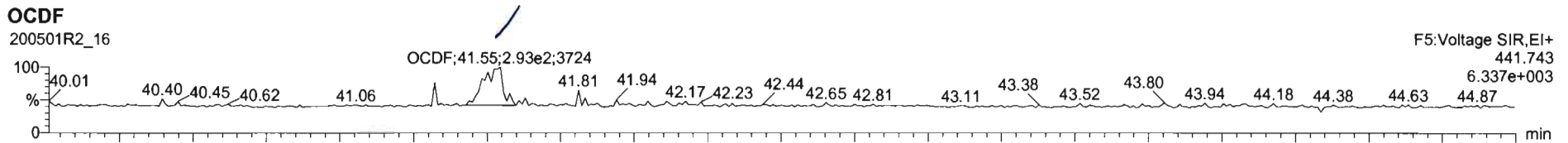




Dataset: Untitled

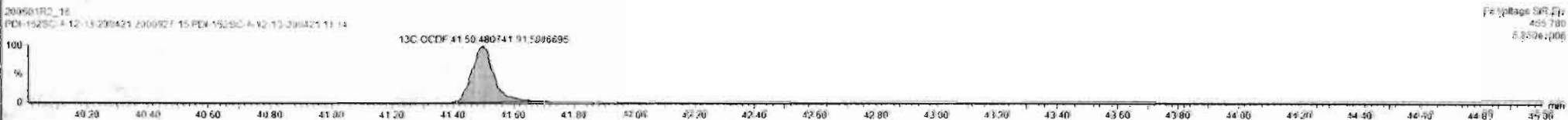
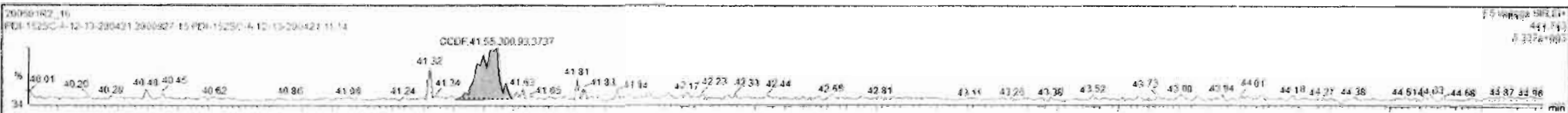
Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_16, Date: 02-May-2020, Time: 02:56:11, ID: 2000927-15 PDI-152SC-A-12-13-200421 11.14, Description: PDI-152SC-A-12-13-200421



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out	
17	17	OCDF	6.78e2	9.06e5	0.89	0.80	NO	0.8221	41.58	41.55	NO	1.000	1.001	0.373	NO	
18	18	13C-2,3,7,8-TCDD	9.33e5	1.09e6	0.77	0.83	NO	1.1596	25.97	25.96	NO	1.026	1.027	145	74.7	YES
19	19	13C-1,2,3,7,8-PeCDD	7.88e5	1.05e6	0.82	0.83	NO	0.8472	31.05	31.08	NO	1.227	1.226	173	66.3	NO
20	20	13C-1,2,3,4,7,8-HxCDD	8.21e5	1.05e6	1.24	1.29	NO	0.7459	34.46	34.45	NO	1.014	1.014	153	76.4	YES

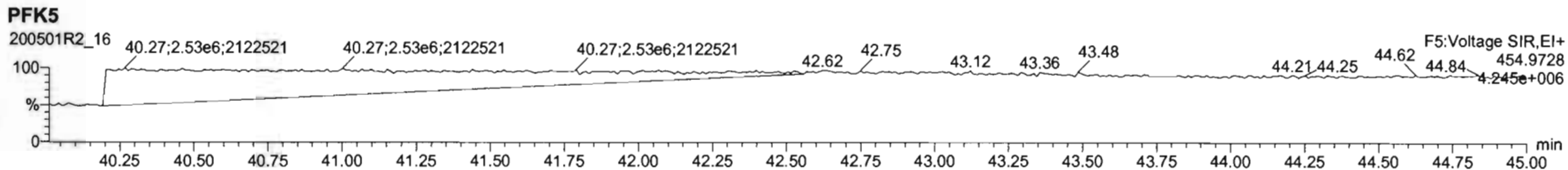
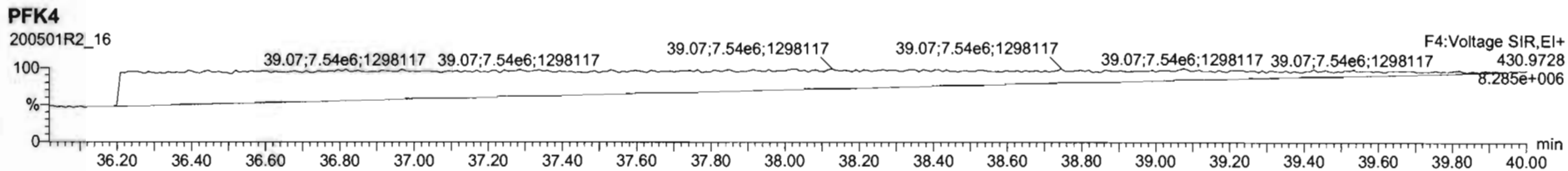
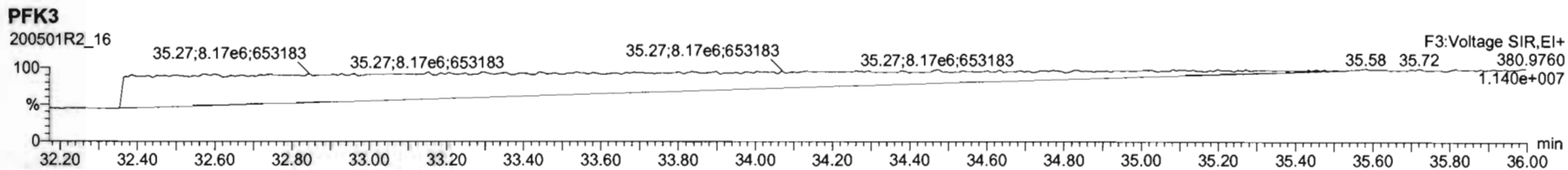
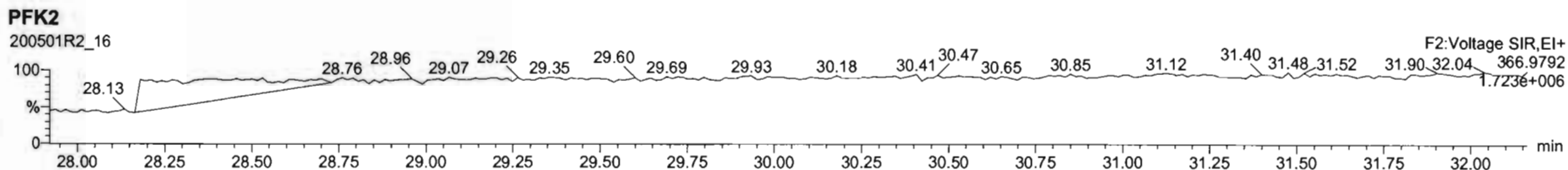
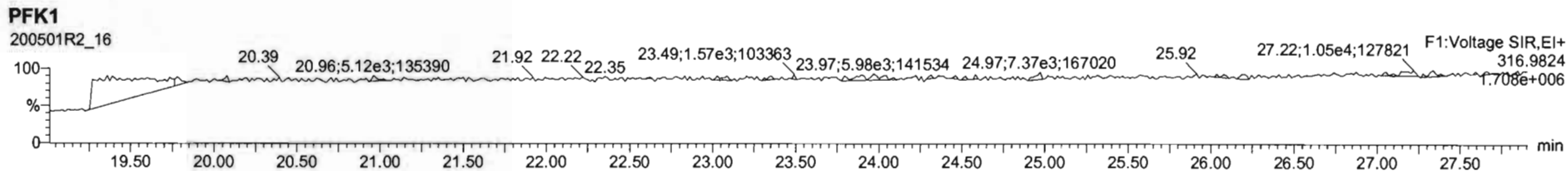
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1								



Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:45:03 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:45:26 AM Pacific Daylight Time

Name: 200501R2\_16, Date: 02-May-2020, Time: 02:56:11, ID: 2000927-15 PDI-152SC-A-12-13-200421 11.14, Description: PDI-152SC-A-12-13-200421



## CONFIRMATION

Dataset: U:\VG7.PRO\Results\200430D2\200430D2\_12.qld

Last Altered: Friday, May 01, 2020 09:38:43 Pacific Daylight Time  
Printed: Friday, May 01, 2020 09:39:36 Pacific Daylight Time

*DB 5/1/20 0705/05/2020*

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

Name: 200430D2\_12, Date: 30-Apr-2020, Time: 22:31:14, ID: 2000927-08RE1 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	2.61e2	0.81	NO	0.982	10.020	17.666	17.68	1.000	1.002	0.85744		0.632	0.857
2	2 13C-2,3,7,8-TCDF	6.20e4	0.78	NO	1.08	10.020	17.701	17.65	1.133	1.135	107.11	53.7	0.871	
3	3 13C-1,2,3,4-TCDF	1.07e5	0.77	NO	1.00	10.020	15.660	15.54	1.000	1.000	199.59	100	0.943	

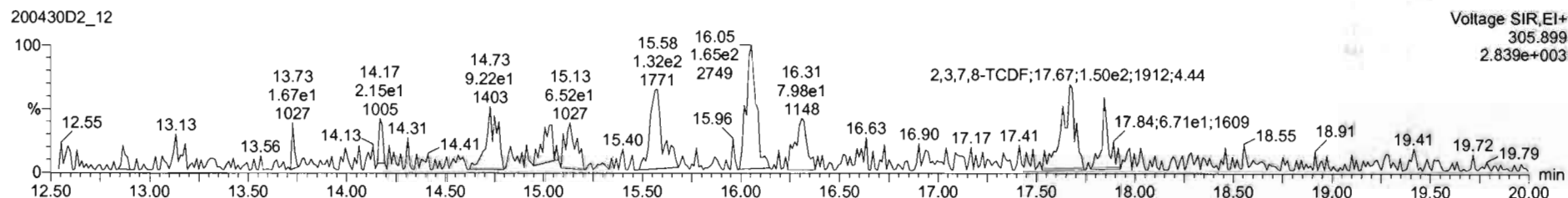
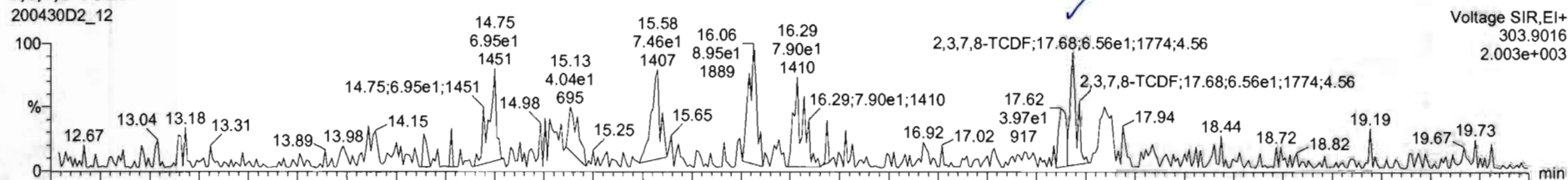
Dataset: U:\VG7.PRO\Results\200430D2\200430D2\_12.qld

Last Altered: Friday, May 01, 2020 09:37:00 Pacific Daylight Time  
Printed: Friday, May 01, 2020 09:38:10 Pacific Daylight Time

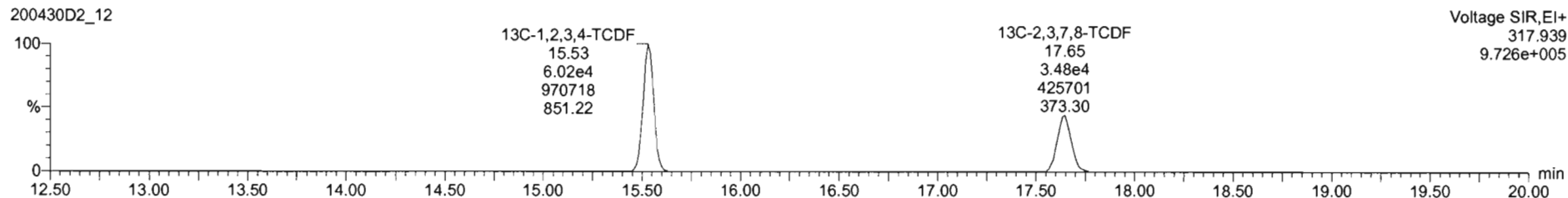
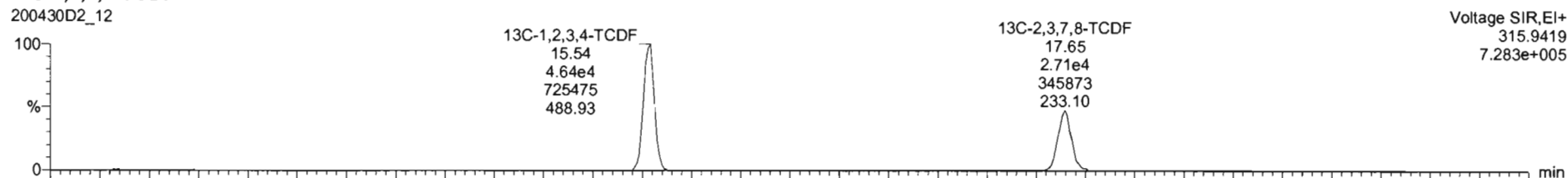
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200430D2\_12, Date: 30-Apr-2020, Time: 22:31:14, ID: 2000927-08RE1 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421

2,3,7,8-TCDF

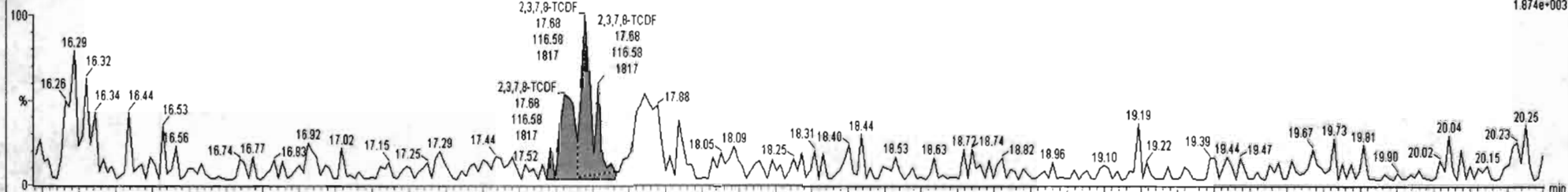


13C-2,3,7,8-TCDF



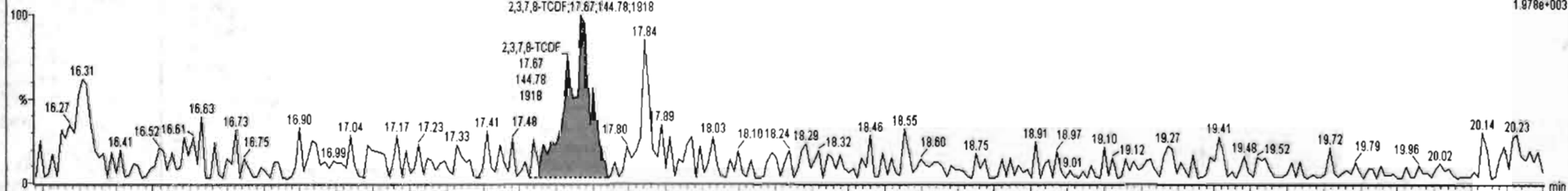
200430D2\_12  
PDI-152SC-A-00-01-200421 2000927-08RE1 PDI-152SC-A-00-01-200421 11.05

Voltage SIR, EI+  
303.9016  
1.874e+003



200430D2\_12  
PDI-152SC-A-00-01-200421 2000927-08RE1 PDI-152SC-A-00-01-200421 11.05

Voltage SIR, EI+  
305.899  
1.878e+003



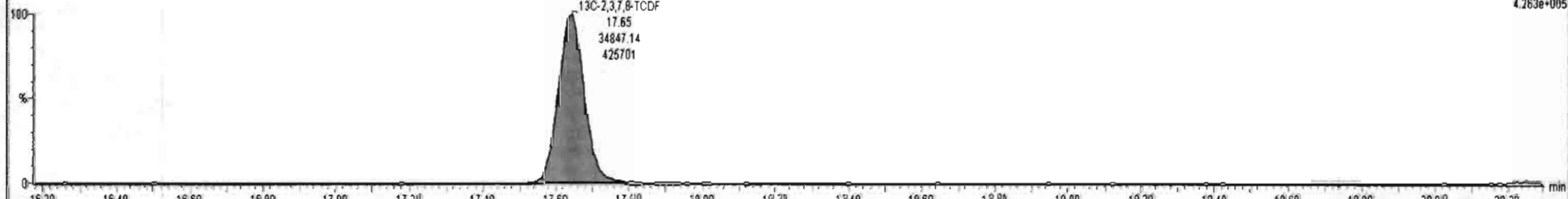
200430D2\_12  
PDI-152SC-A-00-01-200421 2000927-08RE1 PDI-152SC-A-00-01-200421 11.05

Voltage SIR, EI+  
315.9419  
3.484e+005



200430D2\_12  
PDI-152SC-A-00-01-200421 2000927-08RE1 PDI-152SC-A-00-01-200421 11.05

Voltage SIR, EI+  
317.939  
4.263e+005



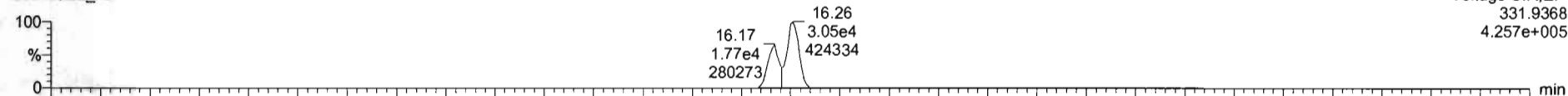
Dataset: U:\VG7.PRO\Results\200430D2\200430D2\_12.qld

Last Altered: Friday, May 01, 2020 09:37:00 Pacific Daylight Time  
Printed: Friday, May 01, 2020 09:38:10 Pacific Daylight Time

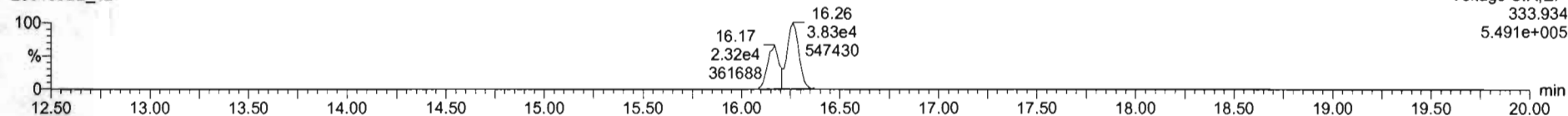
Name: 200430D2\_12, Date: 30-Apr-2020, Time: 22:31:14, ID: 2000927-08RE1 PDI-152SC-A-00-01-200421 11.05, Description: PDI-152SC-A-00-01-200421

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

200430D2\_12

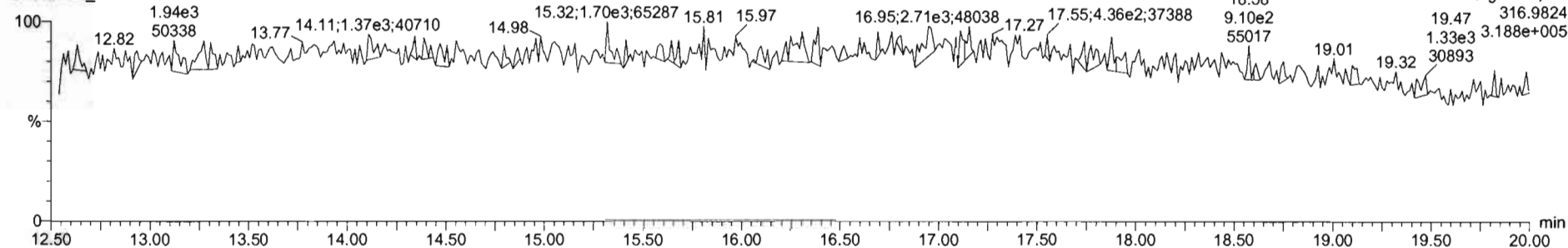


200430D2\_12



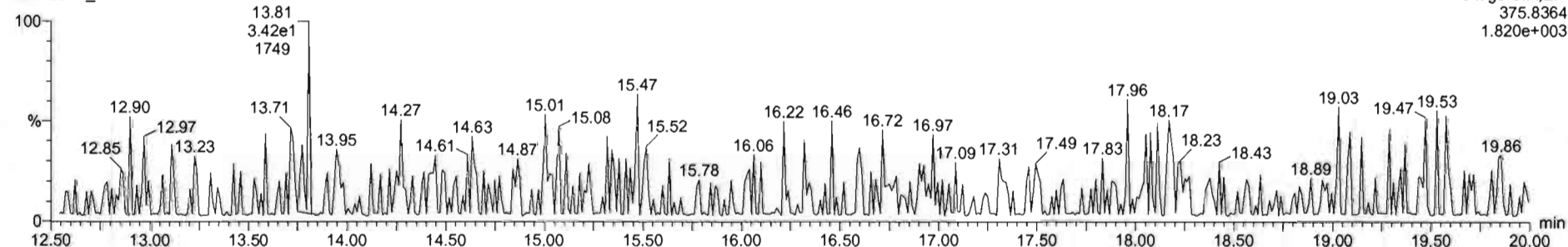
PFK1

200430D2\_12



DPE1

200430D2\_12





**SAMPLE DATA – EPA METHOD 1668C**

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-6.qld

Last Altered: Friday, May 01, 2020 14:40:15 Pacific Daylight Time  
 Printed: Friday, May 01, 2020 14:58:47 Pacific Daylight Time

*dy 05-04-2020*

Method: U:\VG12.PRO\MethDB\PCB-209\_ZB1\_4-23-20.mdb 23 Apr 2020 11:56:31  
 Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

*C105/04/2020*

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1			NO	1.08	5.000	15.62		1.001		YES			0.112	
2	2 PCB-2			NO	1.03	5.000	18.00		0.988		YES			0.126	
3	3 PCB-3			NO	1.08	5.000	18.24		1.001		YES			0.119	
4	4 PCB-4/10			NO	0.897	5.000	19.64		1.005		YES			0.800	
5	5 PCB-7/9			NO	0.715	5.000	21.42		1.002		YES			0.648	
6	6 PCB-6			NO	0.729	5.000	22.07		1.033		YES			0.636	
7	7 PCB-5/8			NO	0.722	5.000	22.48		1.052		YES			0.642	
8	8 PCB-14			NO	0.753	5.000	23.60		0.952		YES			0.722	
9	9 PCB-11			NO	0.834	5.000	24.82		1.001		YES			0.652	
10	10 PCB-12/13			NO	0.733	5.000	25.18		1.016		YES			0.742	
11	11 PCB-15			NO	0.782	5.000	25.54		1.030		YES			0.695	
12	12 PCB-19			NO	1.06	5.000	23.77		1.001		YES			0.256	
13	13 PCB-30			NO	1.63	5.000	24.69		1.040		YES			0.166	
14	14 PCB-18			NO	0.777	5.000	25.44		0.952		YES			0.265	
15	15 PCB-17			NO	0.734	5.000	25.62		0.959		YES			0.281	
16	16 PCB-24/27			NO	1.02	5.000	26.21		0.981		YES			0.203	
17	17 PCB-16/32			NO	0.900	5.000	26.74		1.001		YES			0.229	
18	18 PCB-34			NO	0.664	5.000	27.55		0.959		YES			0.276	
19	19 PCB-23			NO	0.616	5.000	27.64		0.962		YES			0.298	
20	20 PCB-29			NO	0.615	5.000	27.90		0.971		YES			0.299	
21	21 PCB-26			NO	0.666	5.000	28.11		0.979		YES			0.276	
22	22 PCB-25			NO	0.650	5.000	28.29		0.985		YES			0.282	
23	23 PCB-31			NO	0.749	5.000	28.65		0.998		YES			0.245	
24	24 PCB-28			NO	0.775	5.000	28.76		1.001		YES			0.237	
25	25 PCB-20/21/33			NO	0.669	5.000	29.37		1.023		YES			0.275	
26	26 PCB-22			NO	0.731	5.000	29.82		1.038		YES			0.251	
27	27 PCB-36			NO	0.786	5.000	30.48		0.932		YES			0.271	
28	28 PCB-39			NO	0.730	5.000	30.95		0.946		YES			0.292	
29	29 PCB-38			NO	0.772	5.000	31.75		0.971		YES			0.276	
30	30 PCB-35			NO	0.747	5.000	32.27		0.987		YES			0.285	
31	31 PCB-37			NO	0.756	5.000	32.71		1.000		YES			0.281	

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-6.qld

Last Altered: Friday, May 01, 2020 14:40:15 Pacific Daylight Time

Printed: Friday, May 01, 2020 14:58:47 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 PCB-54			NO	0.999	5.000	27.59		1.001		YES			0.174	
33	33 PCB-50			NO	0.788	5.000	28.80		1.045		YES			0.221	
34	34 PCB-53			NO	0.933	5.000	29.44		0.944		YES			0.261	
35	35 PCB-51			NO	1.02	5.000	29.79		0.955		YES			0.238	
36	36 PCB-45			NO	0.762	5.000	30.22		0.969		YES			0.319	
37	37 PCB-46			NO	0.738	5.000	30.72		0.985		YES			0.329	
38	38 PCB-52/69			NO	1.09	5.000	31.23		1.001		YES			0.224	
39	39 PCB-73			NO	1.30	5.000	31.35		1.005		YES			0.186	
40	40 PCB-43/49			NO	0.914	5.000	31.53		1.011		YES			0.266	
41	41 PCB-47			NO	0.841	5.000	31.74		1.001		YES			0.266	
42	42 PCB-48/75			NO	1.01	5.000	31.85		1.004		YES			0.220	
43	43 PCB-65			NO	1.05	5.000	32.13		1.013		YES			0.212	
44	44 PCB-62			NO	1.02	5.000	32.22		1.016		YES			0.218	
45	45 PCB-44			NO	0.716	5.000	32.55		1.026		YES			0.312	
46	46 PCB-42/59			NO	0.943	5.000	32.78		1.033		YES			0.237	
47	47 PCB-41/64/71/72			NO	1.07	5.000	33.37		1.052		YES			0.209	
48	48 PCB-68			NO	1.09	5.000	33.65		1.061		YES			0.204	
49	49 PCB-40			NO	0.535	5.000	33.86		1.067		YES			0.417	
50	50 PCB-57			NO	1.03	5.000	34.22		0.969		YES			0.203	
51	51 PCB-67			NO	0.985	5.000	34.55		0.978		YES			0.212	
52	52 PCB-58			NO	1.05	5.000	34.68		0.982		YES			0.199	
53	53 PCB-63			NO	0.933	5.000	34.82		0.986		YES			0.224	
54	54 PCB-74			NO	1.03	5.000	35.11		0.994		YES			0.204	
55	55 PCB-61/70			NO	0.968	5.000	35.35		1.001		YES			0.216	
56	56 PCB-76/66			NO	1.04	5.000	35.53		1.006		YES			0.201	
57	57 PCB-80			NO	1.07	5.000	35.76		1.000		YES			0.199	
58	58 PCB-55			NO	1.05	5.000	36.08		1.009		YES			0.204	
59	59 PCB-56/60			NO	0.932	5.000	36.58		1.023		YES			0.229	
60	60 PCB-79			NO	1.06	5.000	37.71		1.055		YES			0.203	
61	61 PCB-78			NO	1.00	5.000	38.41		0.987		YES			0.228	
62	62 PCB-81			NO	0.954	5.000	38.96		1.000		YES			0.239	
63	63 PCB-77			NO	1.07	5.000	39.55		1.000		YES			0.219	
64	64 PCB-104			NO	1.14	5.000	32.41		1.001		YES			0.250	
65	65 PCB-96			NO	1.12	5.000	33.71		1.041		YES			0.253	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
66	66 PCB-103			NO	0.862	5.000	34.27		1.058		YES			0.330	
67	67 PCB-100			NO	0.903	5.000	34.64		1.070		YES			0.315	
68	68 PCB-94			NO	0.907	5.000	35.09		0.985		YES			0.419	
69	69 PCB-95/98/102			NO	1.18	5.000	35.57		0.999		YES			0.321	
70	70 PCB-93			NO	0.847	5.000	35.70		1.002		YES			0.449	
71	71 PCB-88/91			NO	0.981	5.000	36.03		1.012		YES			0.387	
72	72 PCB-121			NO	1.54	5.000	36.15		1.015		YES			0.246	
73	73 PCB-84/92			NO	0.977	5.000	36.97		0.990		YES			0.413	
74	74 PCB-89			NO	1.11	5.000	37.16		0.995		YES			0.363	
75	75 PCB-90/101			NO	1.08	5.000	37.36		1.000		YES			0.373	
76	76 PCB-113			NO	1.46	5.000	37.62		1.007		YES			0.277	
77	77 PCB-99			NO	1.24	5.000	37.71		1.009		YES			0.325	
78	78 PCB-119			NO	1.66	5.000	38.18		0.987		YES			0.291	
79	79 PCB-108/112			NO	1.39	5.000	38.32		0.991		YES			0.348	
80	80 PCB-83			NO	1.67	5.000	38.50		0.996		YES			0.290	
81	81 PCB-97			NO	1.25	5.000	38.69		1.000		YES			0.385	
82	82 PCB-86			NO	1.09	5.000	38.86		1.005		YES			0.442	
83	83 PCB-87/117/125			NO	1.53	5.000	38.97		1.008		YES			0.316	
84	84 PCB-111/115			NO	1.81	5.000	39.14		1.012		YES			0.267	
85	85 PCB-85/116			NO	1.32	5.000	39.24		1.015		YES			0.366	
86	86 PCB-120			NO	1.90	5.000	39.53		1.022		YES			0.255	
87	87 PCB-110			NO	1.65	5.000	39.68		1.026		YES			0.293	
88	88 PCB-82			NO	0.779	5.000	40.32		0.976		YES			0.442	
89	89 PCB-124			NO	1.32	5.000	41.02		0.993		YES			0.261	
90	90 PCB-107/109			NO	1.30	5.000	41.17		0.996		YES			0.266	
91	91 PCB-123			NO	1.19	5.000	41.34		1.000		YES			0.290	
92	92 PCB-106/118			NO	1.22	5.000	41.53		1.001		YES			0.279	
93	93 PCB-114			NO	0.886	5.000	42.18		1.000		YES			0.341	
94	94 PCB-122			NO	0.741	5.000	42.31		1.004		YES			0.407	
95	95 PCB-105			NO	0.850	5.000	43.09		1.001		YES			0.332	
96	96 PCB-127			NO	0.858	5.000	43.43		1.000		YES			0.307	
97	97 PCB-126			NO	0.962	5.000	45.35		1.000		YES			0.315	
98	98 PCB-155			NO	1.01	5.000	36.93		1.001		YES			0.177	
99	99 PCB-150			NO	1.05	5.000	38.19		1.035		YES			0.171	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
100	1... PCB-152			NO	1.20	5.000	38.68		1.049		YES			0.149	
101	1... PCB-145			NO	1.17	5.000	39.14		1.061		YES			0.153	
102	1... PCB-136			NO	1.01	5.000	39.46		1.070		YES			0.178	
103	1... PCB-148			NO	0.770	5.000	39.59		1.073		YES			0.233	
104	1... PCB-154			NO	0.862	5.000	40.09		1.087		YES			0.208	
105	1... PCB-151			NO	0.723	5.000	40.74		1.105		YES			0.248	
106	1... PCB-135			NO	0.836	5.000	40.97		1.111		YES			0.214	
107	1... PCB-144			NO	0.756	5.000	41.08		1.114		YES			0.237	
108	1... PCB-147			NO	0.789	5.000	41.21		1.117		YES			0.227	
109	1... PCB-139/149			NO	0.896	5.000	41.49		1.125		YES			0.200	
110	1... PCB-140			NO	0.769	5.000	41.67		1.130		YES			0.233	
111	1... PCB-134/143			NO	0.653	5.000	42.12		0.975		YES			0.219	
112	1... PCB-131/133			NO	0.677	5.000	42.43		0.982		YES			0.211	
113	1... PCB-142			NO	0.614	5.000	42.58		0.985		YES			0.233	
114	1... PCB-146/165			NO	0.836	5.000	42.83		0.991		YES			0.171	
115	1... PCB-132/161			NO	0.908	5.000	43.07		0.997		YES			0.157	
116	1... PCB-153			NO	1.00	5.000	43.26		1.001		YES			0.143	
117	1... PCB-168			NO	1.00	5.000	43.47		1.006		YES			0.142	
118	1... PCB-141			NO	0.970	5.000	44.00		1.000		YES			0.178	
119	1... PCB-137	9.25e1	1.51	YES	0.913	5.000	44.40	44.36	1.010	1.009	NO	0.4689		0.141	0.4187
120	1... PCB-130			NO	0.803	5.000	44.49		1.012		YES			0.216	
121	1... PCB-138/163/164			NO	1.21	5.000	44.87		1.001		YES			0.137	
122	1... PCB-158/160			NO	1.10	5.000	45.12		1.007		YES			0.150	
123	1... PCB-129			NO	0.779	5.000	45.38		1.012		YES			0.213	
124	1... PCB-166			NO	1.01	5.000	45.84		0.993		YES			0.143	
125	1... PCB-159			NO	1.11	5.000	46.18		1.000		YES			0.130	
126	1... PCB-128/162			NO	0.859	5.000	46.48		1.007		YES			0.168	
127	1... PCB-167			NO	1.04	5.000	46.88		1.000		YES			0.135	
128	1... PCB-156			NO	1.08	5.000	48.19		1.000		YES			0.138	
129	1... PCB-157			NO	0.977	5.000	48.47		1.000		YES			0.152	
130	1... PCB-169			NO	1.11	5.000	50.71		1.000		YES			0.137	
131	1... PCB-188			NO	1.27	5.000	42.88		1.001		YES			0.183	
132	1... PCB-184			NO	1.33	5.000	43.32		1.011		YES			0.175	
133	1... PCB-179			NO	1.25	5.000	44.11		1.030		YES			0.186	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
134	1... PCB-176			NO	1.22	5.000	44.59		1.041		YES			0.190	
135	1... PCB-186			NO	1.31	5.000	45.22		1.055		YES			0.178	
136	1... PCB-178			NO	0.889	5.000	45.73		1.067		YES			0.261	
137	1... PCB-175			NO	0.886	5.000	46.09		1.076		YES			0.262	
138	1... PCB-182/187			NO	1.04	5.000	46.27		1.080		YES			0.223	
139	1... PCB-183			NO	0.972	5.000	46.61		1.088		YES			0.239	
140	1... PCB-185			NO	1.35	5.000	47.26		0.955		YES			0.238	
141	1... PCB-174			NO	1.28	5.000	47.64		0.963		YES			0.250	
142	1... PCB-181			NO	1.48	5.000	47.73		0.964		YES			0.217	
143	1... PCB-177			NO	1.24	5.000	47.90		0.968		YES			0.259	
144	1... PCB-171			NO	1.33	5.000	48.21		0.974		YES			0.242	
145	1... PCB-173			NO	1.16	5.000	48.64		0.983		YES			0.278	
146	1... PCB-172			NO	1.34	5.000	49.10		0.992		YES			0.239	
147	1... PCB-192			NO	1.67	5.000	49.28		0.996		YES			0.193	
148	1... PCB-180			NO	1.38	5.000	49.51		1.000		YES			0.233	
149	1... PCB-193			NO	1.56	5.000	49.72		1.005		YES			0.206	
150	1... PCB-191			NO	1.60	5.000	49.99		1.010		YES			0.200	
151	1... PCB-170			NO	1.41	5.000	51.16		1.000		YES			0.270	
152	1... PCB-190			NO	1.79	5.000	51.37		1.005		YES			0.213	
153	1... PCB-189			NO	1.47	5.000	52.94		1.000		YES			0.159	
154	1... PCB-202			NO	1.09	5.000	48.41		1.000		YES			0.163	
155	1... PCB-201			NO	0.947	5.000	48.92		1.011		YES			0.188	
156	1... PCB-204			NO	1.03	5.000	49.07		1.014		YES			0.173	
157	1... PCB-197			NO	1.02	5.000	49.39		1.020		YES			0.174	
158	1... PCB-200			NO	0.976	5.000	50.31		1.040		YES			0.182	
159	1... PCB-198			NO	0.752	5.000	51.89		1.072		YES			0.237	
160	1... PCB-199			NO	0.732	5.000	52.04		1.075		YES			0.243	
161	1... PCB-196/203			NO	0.824	5.000	52.34		1.082		YES			0.216	
162	1... PCB-195			NO	0.765	5.000	53.64		0.983		YES			0.124	
163	1... PCB-194	1.58e2	1.03	YES	0.967	5.000	54.59	54.60	1.000	1.000	NO	0.8756		0.0982	0.8137
164	1... PCB-205			NO	1.11	5.000	54.87		1.005		YES			0.0856	
165	1... PCB-208			NO	0.901	5.000	53.80		1.000		YES			0.0857	
166	1... PCB-207			NO	0.841	5.000	54.14		1.007		YES			0.0919	
167	1... PCB-206			NO	0.958	5.000	56.11		1.000		YES			0.104	

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	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
168	1... PCB-209			NO	0.956	5.000	57.36		1.000		YES			0.0770	
169	1... 13C-PCB-1	1.24e6	3.35	NO	0.999	5.000	15.52	15.60	0.609	0.612	NO	1840	92.0	0.709	
170	1... 13C-PCB-3	1.19e6	3.33	NO	1.03	5.000	18.17	18.22	0.712	0.714	NO	1725	86.3	0.690	
171	1... 13C-PCB-4	7.70e5	1.59	NO	0.650	5.000	19.51	19.56	0.765	0.767	NO	1758	87.9	0.480	
172	1... 13C-PCB-9	1.22e6	1.57	NO	0.996	5.000	21.34	21.37	0.837	0.838	NO	1813	90.7	0.313	
173	1... 13C-PCB-11	1.07e6	1.57	NO	0.959	5.000	24.79	24.80	0.972	0.972	NO	1663	83.1	0.325	
174	1... 13C-PCB-19	6.26e5	1.08	NO	0.529	5.000	23.75	23.75	0.931	0.931	NO	1756	87.8	5.19	
175	1... 13C-PCB-32	8.40e5	1.07	NO	0.760	5.000	26.72	26.72	1.048	1.048	NO	1641	82.0	3.61	
176	1... 13C-PCB-28	8.66e5	1.03	NO	1.10	5.000	28.72	28.72	1.003	1.003	NO	1510	75.5	2.98	
177	1... 13C-PCB-37	7.80e5	1.04	NO	0.983	5.000	32.69	32.70	1.142	1.142	NO	1517	75.8	3.32	
178	1... 13C-PCB-54	7.47e5	0.80	NO	1.07	5.000	27.57	27.57	0.753	0.753	NO	1826	91.3	1.48	
179	1... 13C-PCB-52	5.62e5	0.79	NO	0.854	5.000	31.22	31.19	0.853	0.853	NO	1721	86.1	1.85	
180	1... 13C-PCB-47	5.89e5	0.79	NO	0.905	5.000	31.74	31.72	0.867	0.867	NO	1701	85.1	1.75	
181	1... 13C-PCB-70	6.43e5	0.79	NO	1.01	5.000	35.34	35.33	0.966	0.965	NO	1670	83.5	1.57	
182	1... 13C-PCB-80	6.54e5	0.80	NO	1.04	5.000	35.78	35.75	0.978	0.977	NO	1637	81.9	1.51	
183	1... 13C-PCB-81	6.28e5	0.80	NO	0.974	5.000	38.95	38.94	1.065	1.064	NO	1685	84.3	1.62	
184	1... 13C-PCB-77	6.03e5	0.81	NO	0.951	5.000	39.55	39.53	1.081	1.080	NO	1659	83.0	1.66	
185	1... 13C-PCB-104	5.01e5	1.62	NO	1.08	5.000	32.36	32.39	0.827	0.827	NO	1707	85.4	0.501	
186	1... 13C-PCB-95	3.72e5	1.58	NO	0.847	5.000	35.64	35.62	0.910	0.910	NO	1623	81.2	0.641	
187	1... 13C-PCB-101	3.63e5	1.62	NO	0.827	5.000	37.36	37.35	0.955	0.954	NO	1624	81.2	0.657	
188	1... 13C-PCB-97	3.12e5	1.65	NO	0.707	5.000	38.68	38.67	0.988	0.988	NO	1629	81.4	0.768	
189	1... 13C-PCB-123	4.32e5	1.63	NO	0.914	5.000	41.32	41.32	1.056	1.056	NO	1748	87.4	0.594	
190	1... 13C-PCB-118	4.42e5	1.64	NO	0.961	5.000	41.51	41.50	1.061	1.060	NO	1701	85.0	0.565	
191	1... 13C-PCB-114	5.12e5	1.62	NO	1.41	5.000	42.16	42.16	0.908	0.908	NO	1599	80.0	1.06	
192	1... 13C-PCB-105	5.37e5	1.59	NO	1.56	5.000	43.05	43.05	0.927	0.927	NO	1513	75.7	0.959	
193	1... 13C-PCB-127	5.87e5	1.57	NO	1.71	5.000	43.39	43.41	0.935	0.935	NO	1505	75.3	0.872	
194	1... 13C-PCB-126	5.20e5	1.61	NO	1.37	5.000	45.33	45.34	0.976	0.977	NO	1668	83.4	1.09	
195	1... 13C-PCB-155	3.53e5	1.30	NO	0.634	5.000	36.89	36.89	0.942	0.942	NO	2058	103	0.383	
196	1... 13C-PCB-153	5.14e5	1.27	NO	1.53	5.000	43.20	43.22	0.931	0.931	NO	1477	73.8	0.897	
197	1... 13C-PCB-141	4.31e5	1.25	NO	1.19	5.000	43.96	43.98	0.947	0.947	NO	1587	79.4	1.15	
198	1... 13C-PCB-138	4.48e5	1.26	NO	1.18	5.000	44.83	44.83	0.966	0.966	NO	1666	83.3	1.16	
199	1... 13C-PCB-159	5.37e5	1.28	NO	1.38	5.000	46.14	46.16	0.994	0.994	NO	1704	85.2	0.990	
200	2... 13C-PCB-167	5.30e5	1.28	NO	1.38	5.000	46.85	46.86	1.009	1.009	NO	1684	84.2	0.990	
201	2... 13C-PCB-156	5.21e5	1.28	NO	1.33	5.000	48.20	48.17	1.038	1.038	NO	1723	86.2	1.03	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
202	2... 13C-PCB-157	5.24e5	1.29	NO	1.36	5.000	48.46	48.45	1.044	1.044	NO	1687	84.3	1.00	
203	2... 13C-PCB-169	5.18e5	1.27	NO	1.27	5.000	50.72	50.70	1.092	1.092	NO	1791	89.6	1.08	
204	2... 13C-PCB-188	4.10e5	0.45	NO	1.41	5.000	42.82	42.84	0.926	0.926	NO	1606	80.3	0.929	
205	2... 13C-PCB-180	2.95e5	0.46	NO	0.897	5.000	49.49	49.49	1.070	1.070	NO	1812	90.6	1.46	
206	2... 13C-PCB-170	2.56e5	0.45	NO	0.769	5.000	51.17	51.14	1.106	1.106	NO	1834	91.7	1.70	
207	2... 13C-PCB-189	3.63e5	0.45	NO	1.05	5.000	52.95	52.92	1.145	1.144	NO	1906	95.3	1.25	
208	2... 13C-PCB-202	3.96e5	0.95	NO	1.05	5.000	48.39	48.39	1.046	1.046	NO	2090	104	0.939	
209	2... 13C-PCB-194	3.73e5	0.88	NO	0.753	5.000	54.59	54.58	0.995	0.995	NO	1606	80.3	2.07	
210	2... 13C-PCB-208	5.14e5	0.77	NO	0.988	5.000	53.80	53.79	0.981	0.981	NO	1685	84.2	0.987	
211	2... 13C-PCB-206	3.70e5	0.78	NO	0.672	5.000	56.11	56.10	1.023	1.023	NO	1782	89.1	1.45	
212	2... 13C-PCB-209	4.08e5	1.20	NO	0.609	5.000	57.35	57.35	1.045	1.045	NO	2168	108	0.257	
213	2... 13C-PCB-15	1.35e6	1.57	NO	1.00	5.000	25.47	25.51	1.000	0.000	NO	2000	100	0.312	
214	2... 13C-PCB-31	1.05e6	1.03	NO	1.00	5.000	28.59	28.63	1.000	0.000	NO	2000	100	3.26	
215	2... 13C-PCB-60	7.65e5	0.78	NO	1.00	5.000	36.54	36.59	1.000	0.000	NO	2000	100	1.58	
216	2... 13C-PCB-111	5.41e5	1.65	NO	1.00	5.000	39.10	39.14	1.000	0.000	NO	2000	100	0.543	
217	2... 13C-PCB-128	4.56e5	1.29	NO	1.00	5.000	46.38	46.42	1.000	0.000	NO	2000	100	1.37	
218	2... 13C-PCB-182	3.62e5	0.44	NO	1.00	5.000	46.21	46.25	0.000	0.000	NO	2000	100	1.31	
219	2... 13C-PCB-205	6.18e5	0.89	NO	1.00	5.000	54.84	54.86	1.000	0.000	NO	2000	100	1.56	
220	2... 13C-PCB-79	7.01e5	0.79	NO	1.08	5.000	37.67	37.69	1.030	1.030	NO	1700	85.0	1.47	
221	2... 13C-PCB-178	3.07e5	0.44	NO	0.731	5.000	45.71	45.70	0.988	0.988	NO	1843	92.2	1.43	
222	2... 13C-PCB-79	7.01e5	0.79	NO	1.11	5.000	37.67	37.69	0.967	0.968	NO	2017	101	1.81	
223	2... 13C-PCB-178	3.07e5	0.44	NO	1.05	5.000	45.71	45.70	0.924	0.923	NO	1993	99.7	1.56	
224	2... Total Mono-PCBs				1.06	5.000	0.00		0.000		NO			0.350	0.126
225	2... Total Di-PCBs				0.771	5.000	0.00		0.000		NO			5.54	0.600
226	2... 2nd Function Tri-PCBs				1.02	5.000	0.00		0.000		NO			0.281	1.40
227	2... 3rd Function Tri-PCBs				0.709	5.000	0.00		0.000		NO			0.299	3.84
228	2... Total Tetra-PCBs				0.969	5.000	0.00		0.000		NO			0.417	7.49
229	2... 3rd Function Penta-PCBs				1.26	5.000	0.00		0.000		NO			0.449	9.61
230	2... 4th Function Penta-PCBs				0.859	5.000	0.00		0.000		NO			0.407	1.70
231	2... 3rd Function Hexa-PCBs				0.911	5.000	0.00		0.000		NO			2.63	
232	2... 4th Function Hexa-PCBs				0.933	5.000	0.00		0.000		NO	0.0000		3.28	0.4187
233	2... Total Hepta-PCBs				1.31	5.000	0.00		0.000		NO			0.278	5.10
234	2... 4th Function Octa-PCBs				0.922	5.000	0.00		0.000		NO			1.58	
235	2... 5th Function Octa-PCBs				0.947	5.000	0.00		0.000		NO	0.0000		0.308	0.8137



Dataset:        U:\VG12.PRO\Results\200426R1\200426R1-6.qld

Last Altered:    Friday, May 01, 2020 14:40:15 Pacific Daylight Time  
Printed:         Friday, May 01, 2020 14:58:47 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
236	2... Total Nona-PCBs				0.900	5.000	0.00		0.000		NO			0.281	0.104
237	2... Deca-CB				0.956	5.000	0.00		0.000		NO			0.0770	
238	2... Total PCBs														

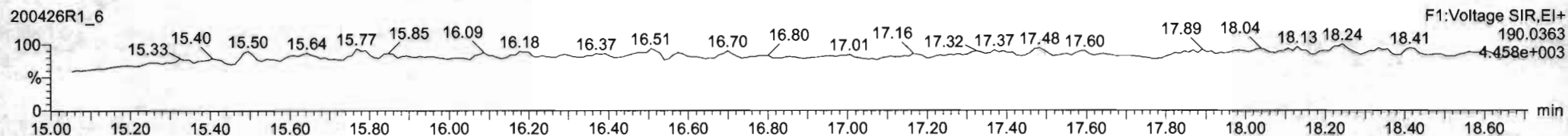
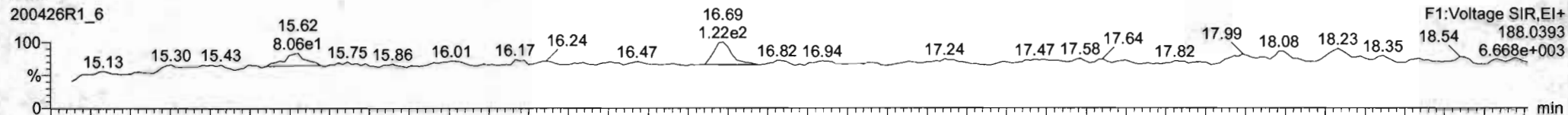
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Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

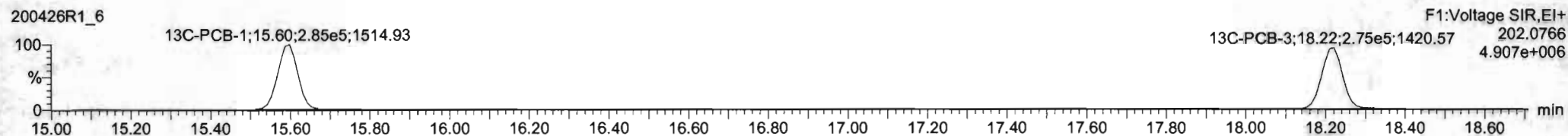
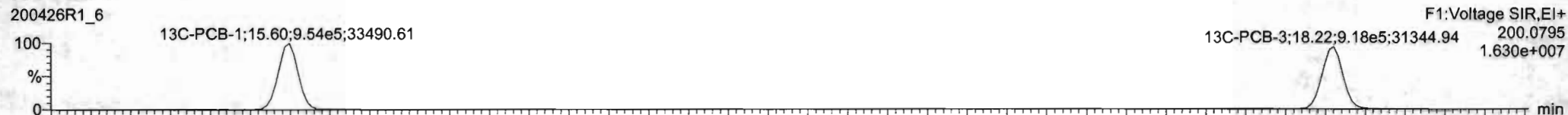
*dy 04-29-2020*

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

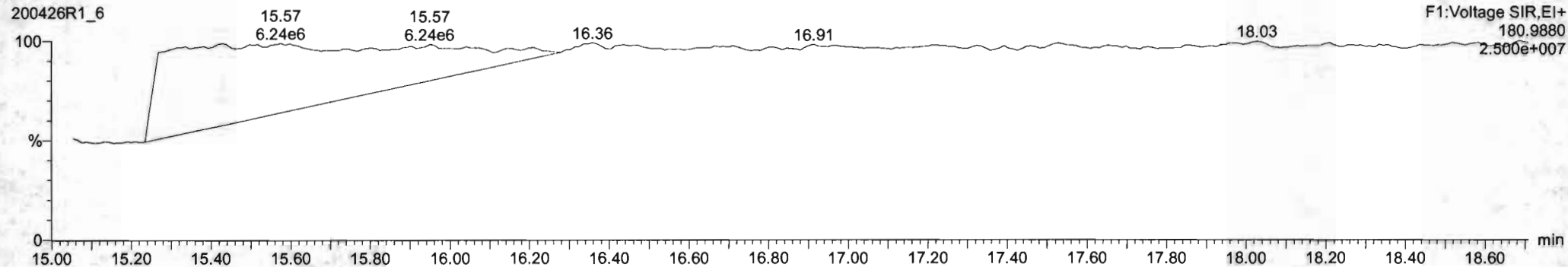
**PCB-1**



**13C-PCB-1**

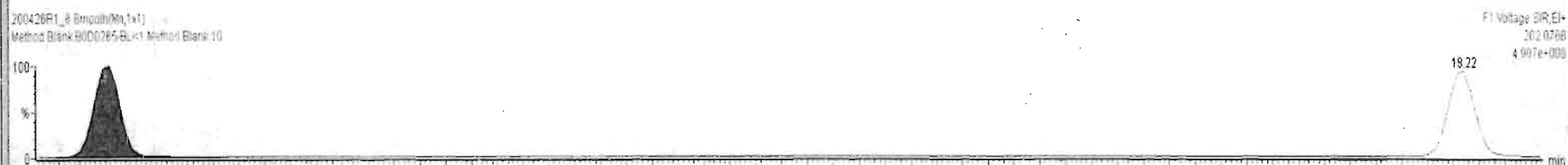
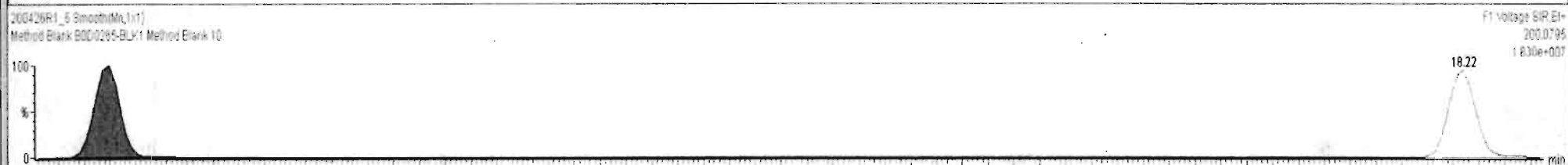
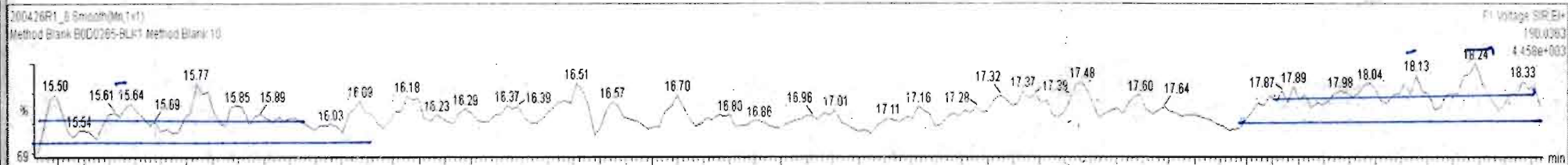
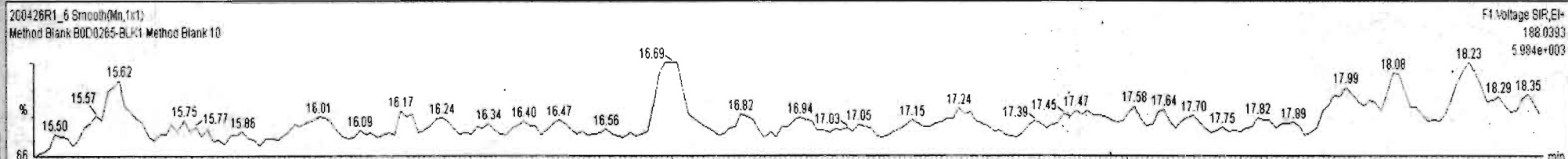


**PFK1**



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0627	5.000	0.00		0.000		NO			0.356	
225	225 Total Di-PCBs				0.7706	5.000	0.00		0.000		NO			5.54	
226	226 2nd Function Tri-PCBs				1.0203	5.000	0.00		0.000		NO			1.40	
227	227 3rd Function Tri-PCBs				0.7089	5.000	0.00		0.000		NO			3.84	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1										

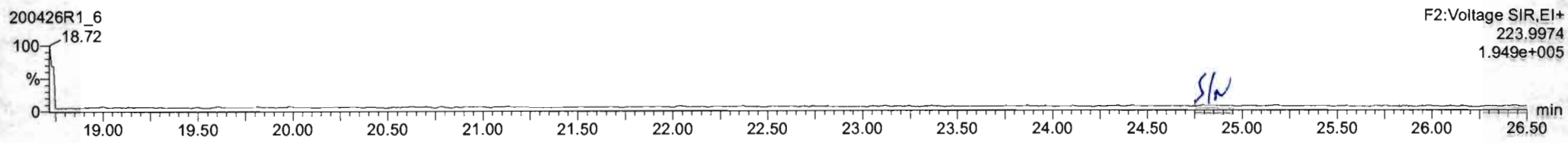
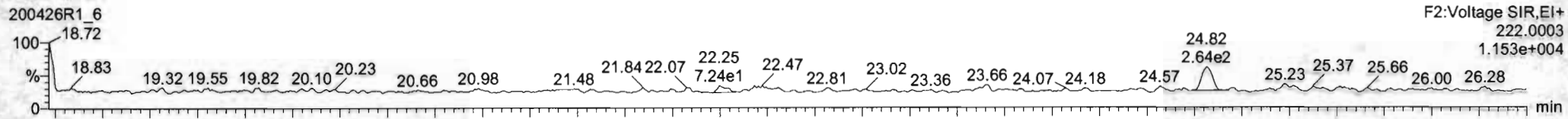


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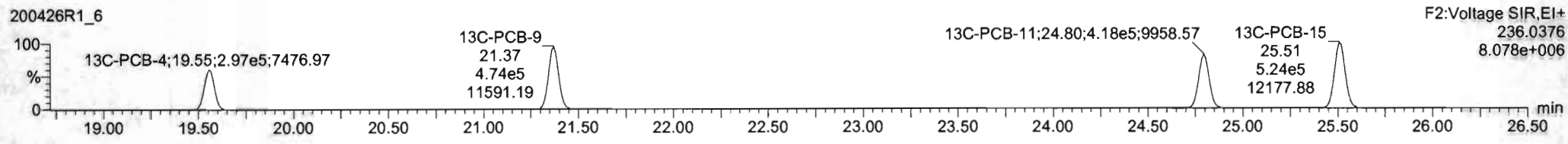
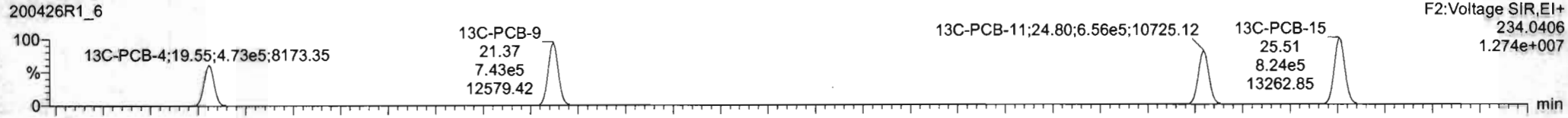
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Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

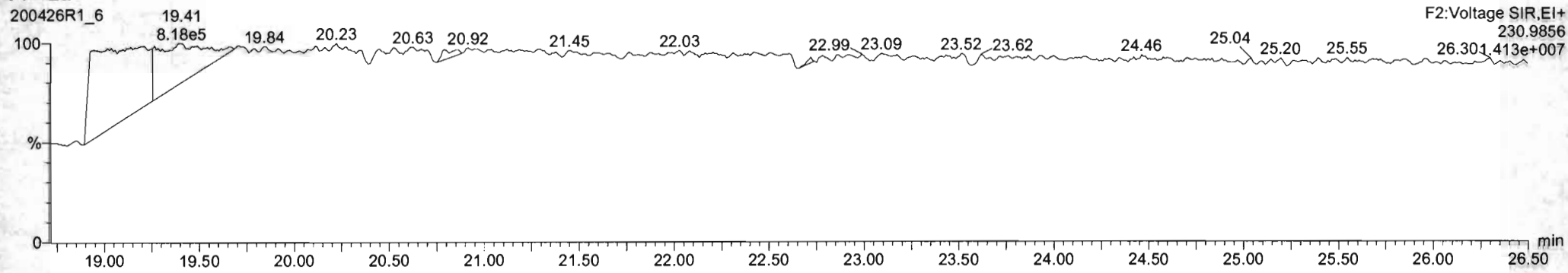
PCB-4/10



13C-PCB-4



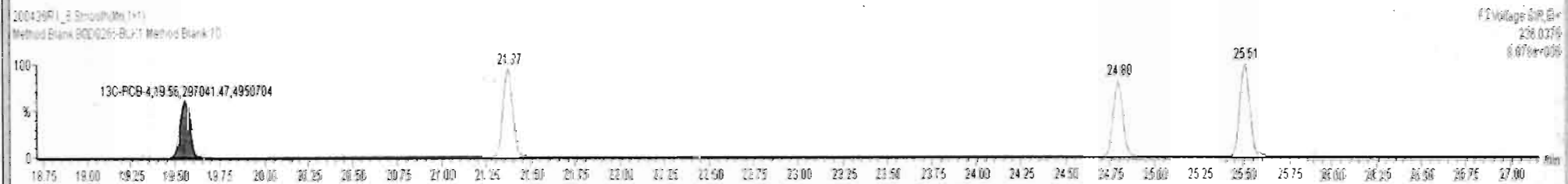
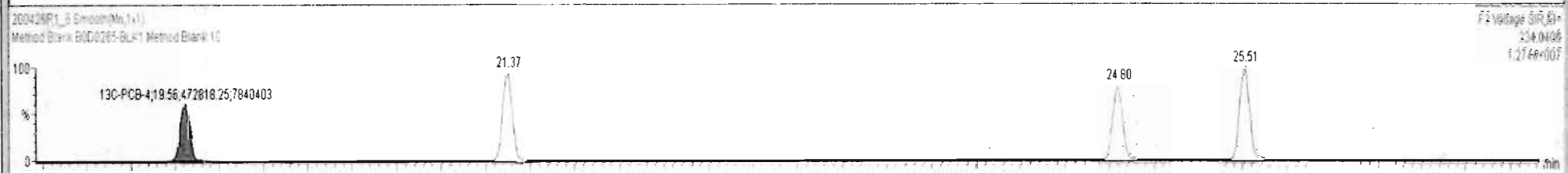
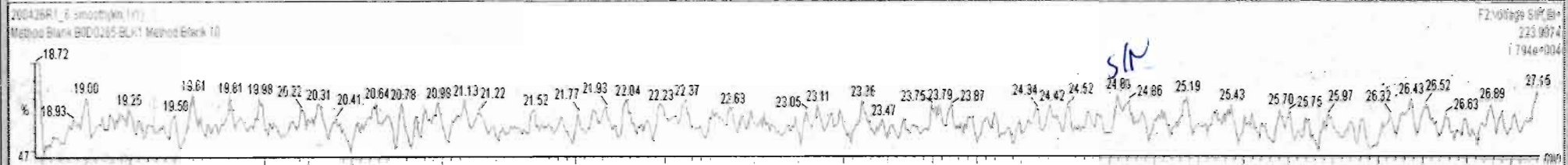
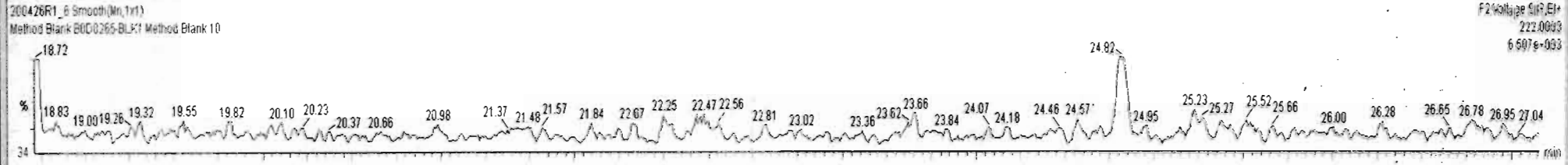
PFK2a



200426R1\_6 - BOD0265-BLK1 Method Blank 10 - Method Blank

#	Name	Resp	RA	nly	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	BMP
224	224 Total Mono-PCBs				1.0627	5.000	0.00		0.000		NO			0.356	
225	225 Total Di-PCBs				0.7706	5.000	0.00		0.000		NO			5.54	
226	226 2nd Function Tri-PCBs				1.0203	5.000	0.00		0.000		NO			1.40	
227	227 3rd Function Tri-PCBs				0.7088	5.000	0.00		0.000		NO			3.84	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	BMP	Conc.
1										



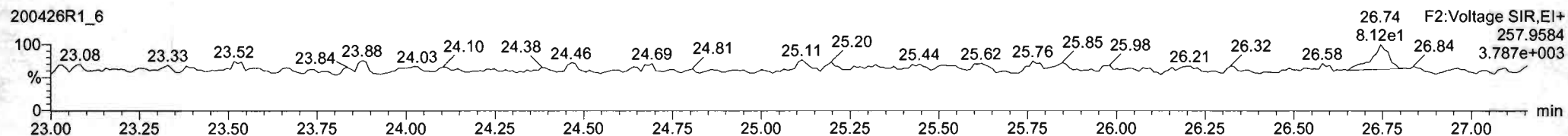
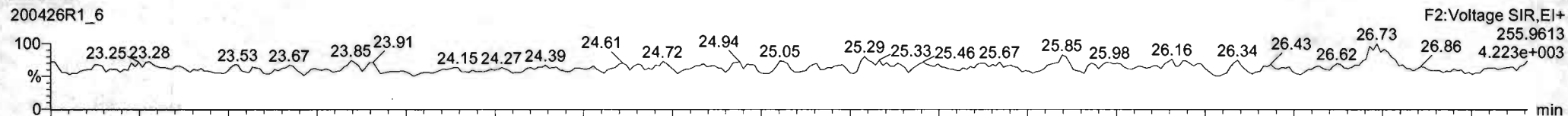
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Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

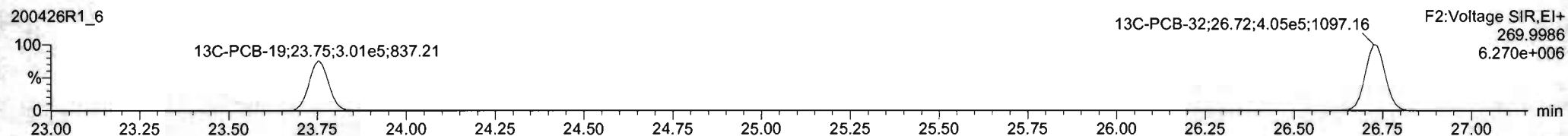
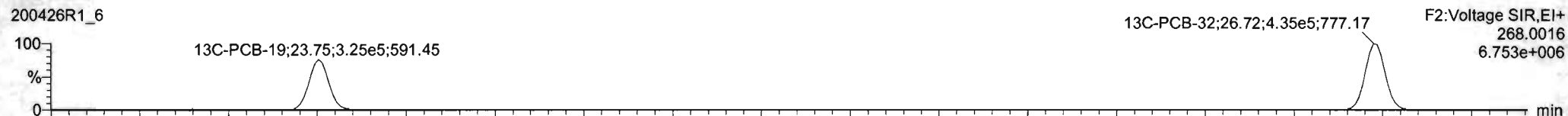
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

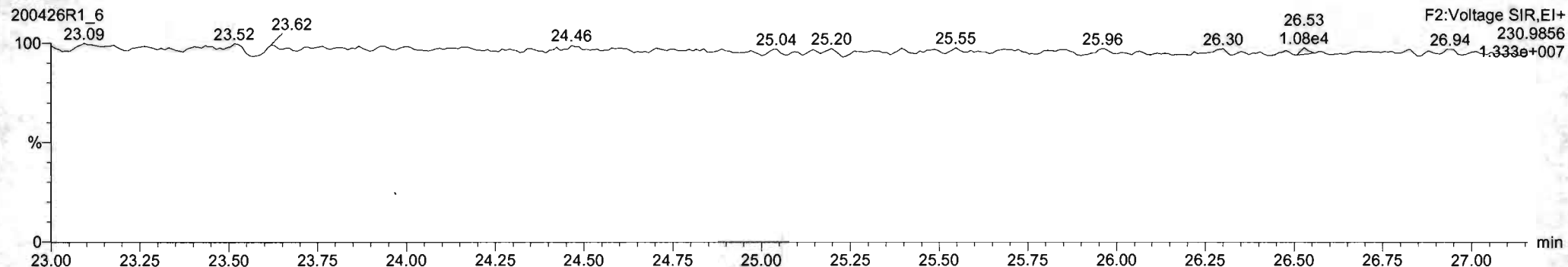
**PCB-19**



**13C-PCB-19**

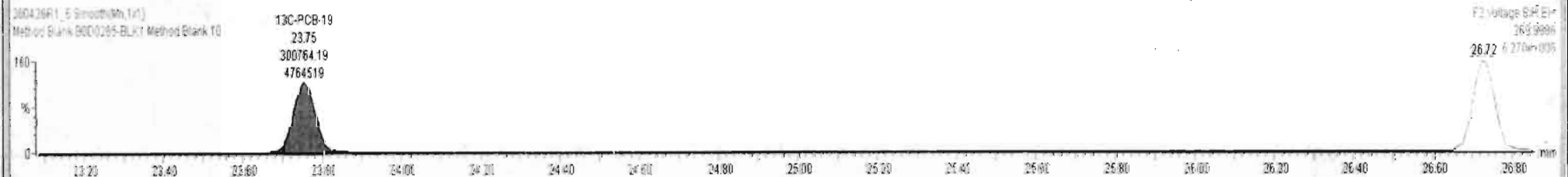
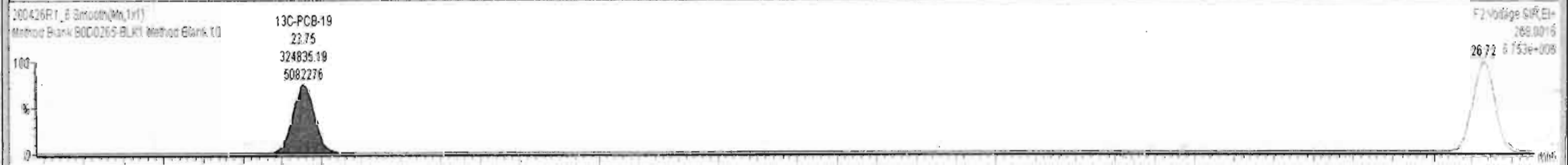
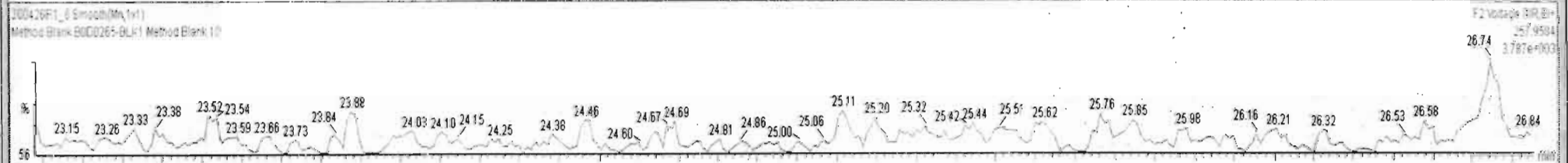
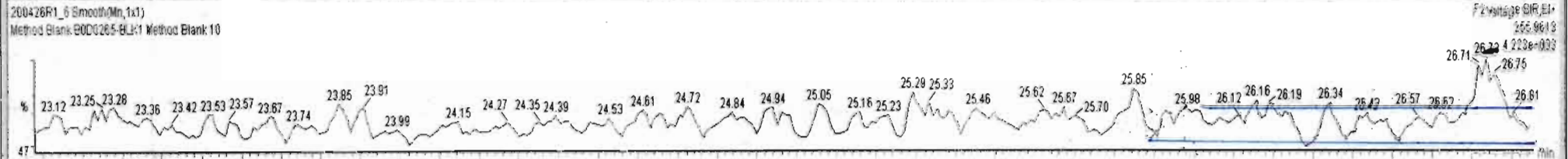


**PFK2b**



#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
226	2nd Function Tri-PCBs				1.0203	5.000	0.00		0.000		NO			1.40	
227	3rd Function Tri-PCBs				0.7089	5.000	0.00		0.000		NO			3.84	
228	Total Tetra-PCBs				0.9639	5.000	0.00		0.000		NO			7.49	
229	3rd Function Penta-PCBs				1.2565	5.000	0.00		0.000		NO			9.51	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc
1										



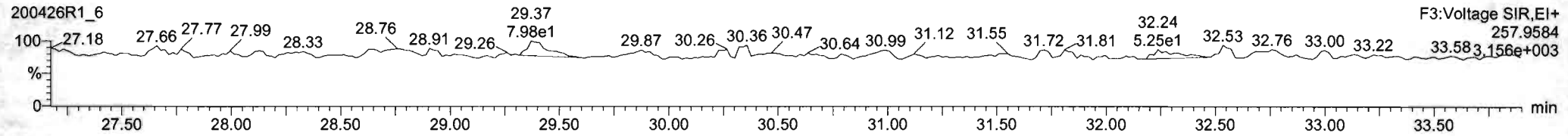
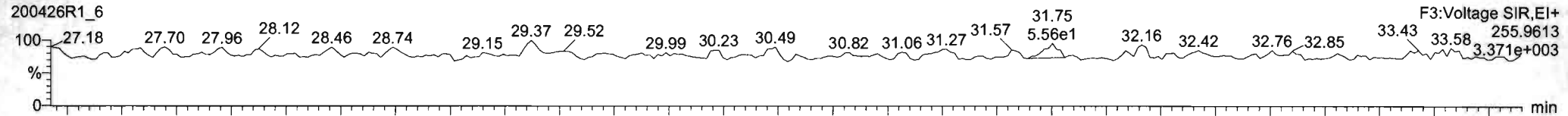
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Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

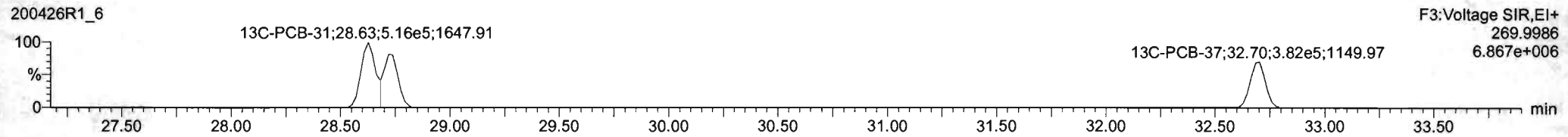
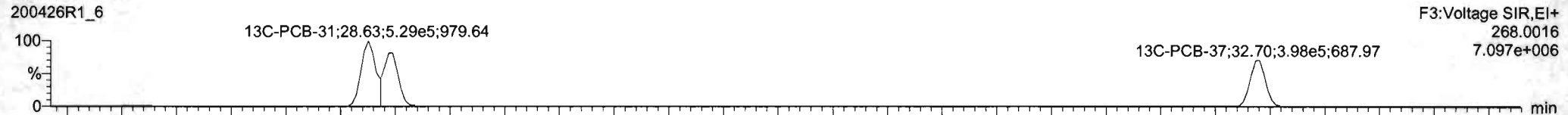
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Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

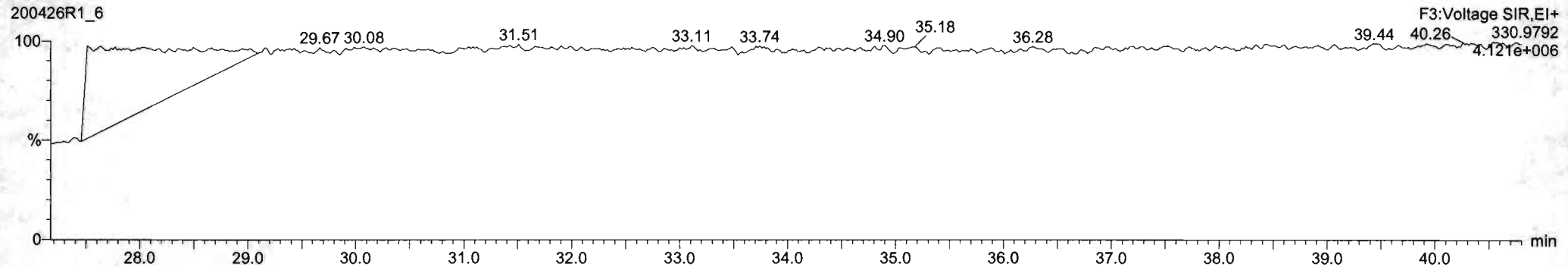
**PCB-34**



**13C-PCB-28**



**PFK3a**





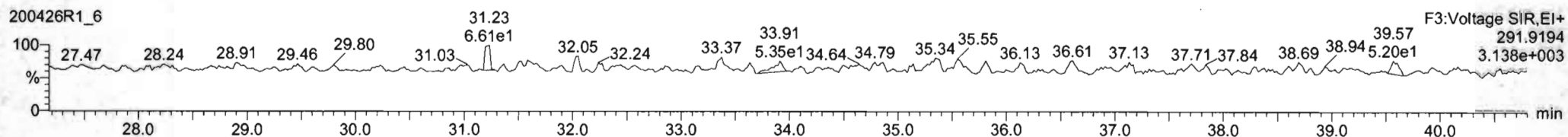
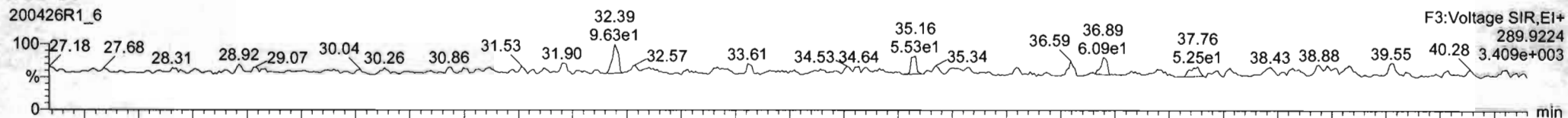
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Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

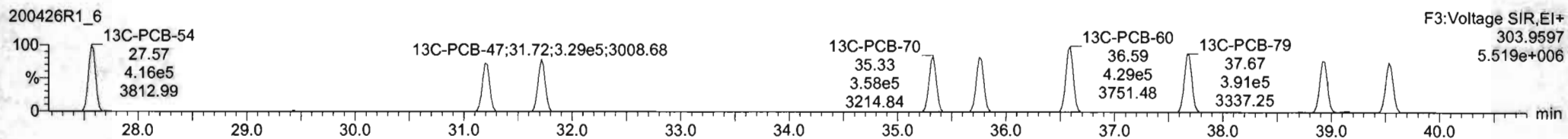
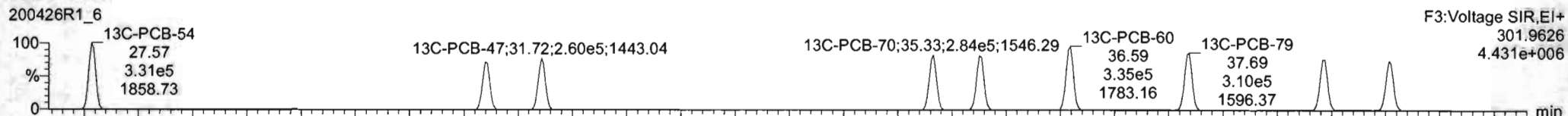
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

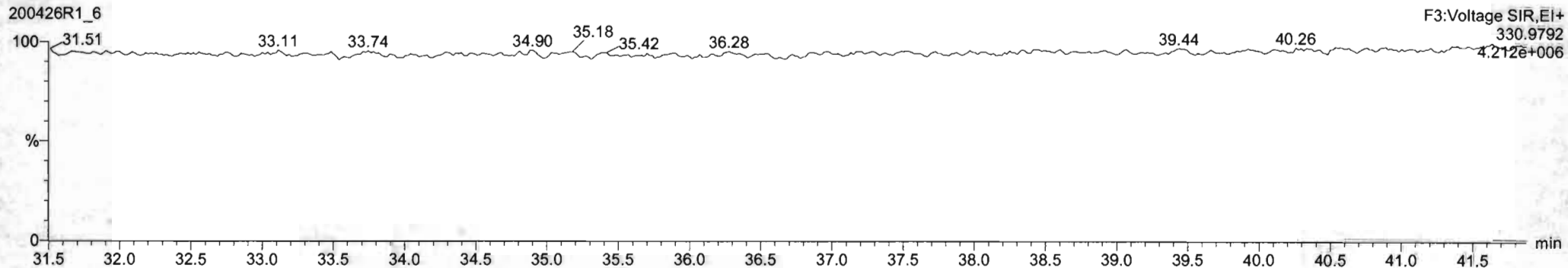
**PCB-54**



**13C-PCB-54**



**PFK3b**



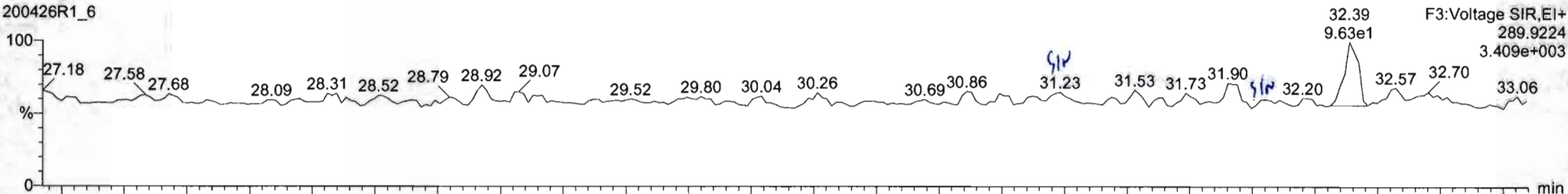
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Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

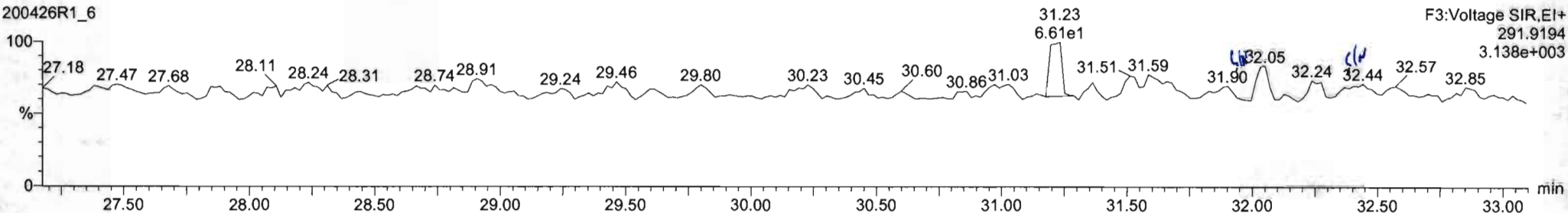
Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

PCB-50

200426R1\_6

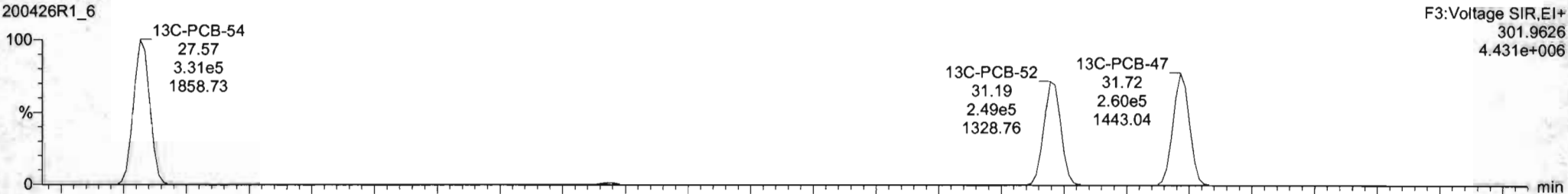


200426R1\_6

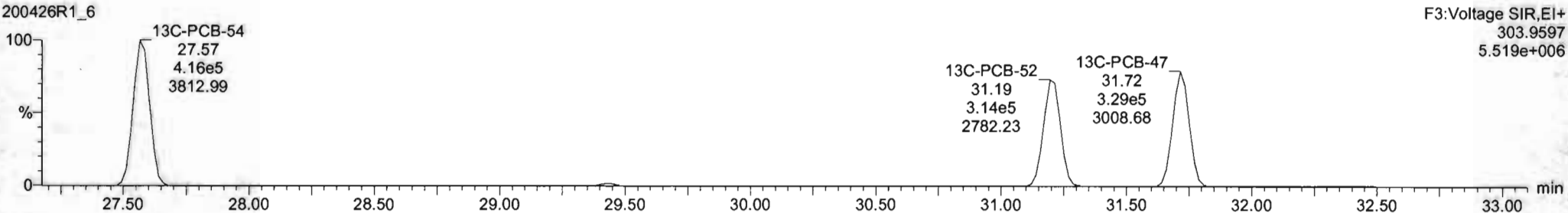


13C-PCB-52

200426R1\_6



200426R1\_6





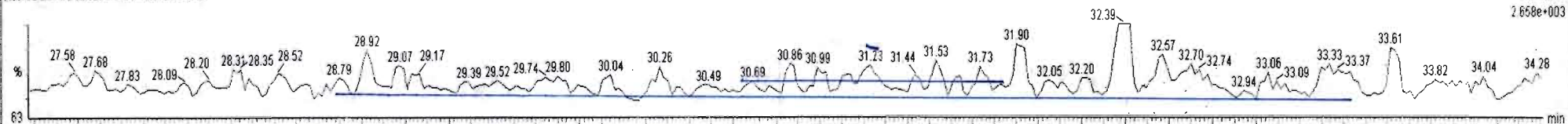
200426R1\_6 - B0D0265-BLK1 Method Blank 10 - Method Blank

#	Name	Resp	RA	nly	RRF	wVol	Pred RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
226	2nd Function Tri-PCBs				1.0203	5.000	0.00		0.000		NO			1.40	
227	3rd Function Tri-PCBs				0.7089	5.000	0.00		0.000		NO			3.84	
228	Total Tetra-PCBs				0.9689	5.000	0.00		0.000		NO			7.49	
229	3rd Function Penta-PCBs				1.2565	5.000	0.00		0.000		NO			9.51	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.

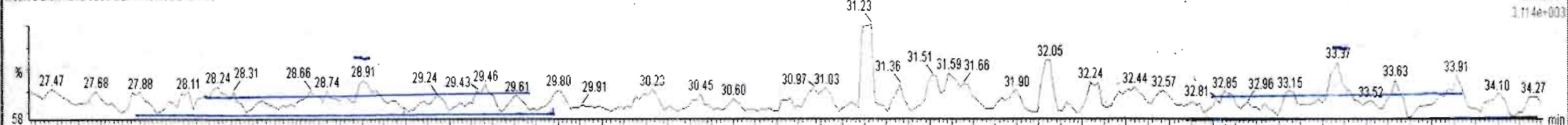
200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10

F3 Voltage SIR.EI+  
289.9224  
2.658e+003



200426R1\_5 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10

F3 Voltage SIR.EI+  
291.9194  
3.114e+003



200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10

F3 Voltage SIR.EI+  
301.9626  
4.431e+008



200426R1\_8 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10

F3 Voltage SIR.EI+  
303.9597  
5.519e+006



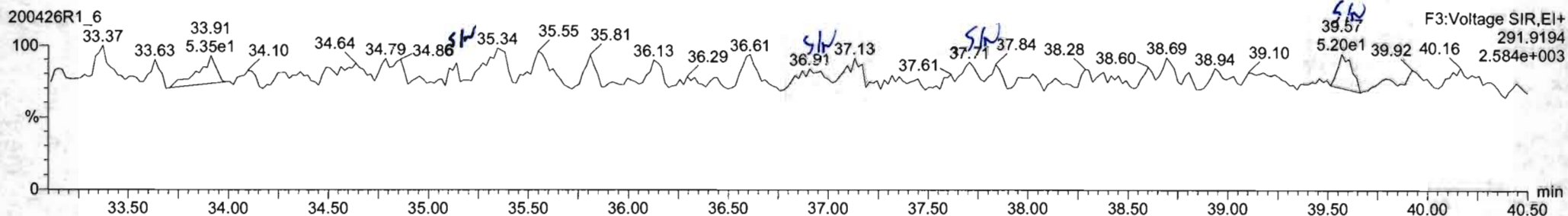
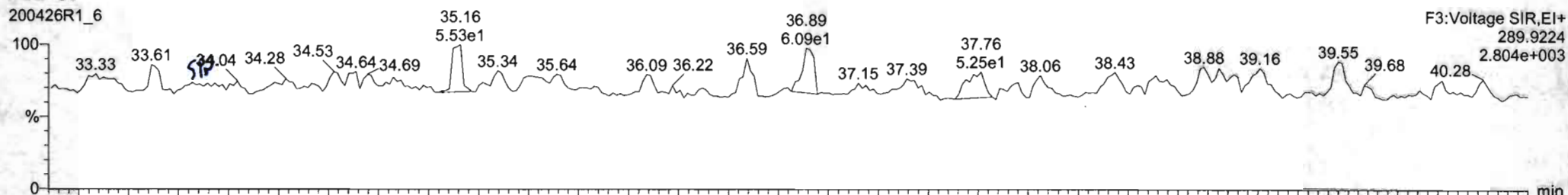
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Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

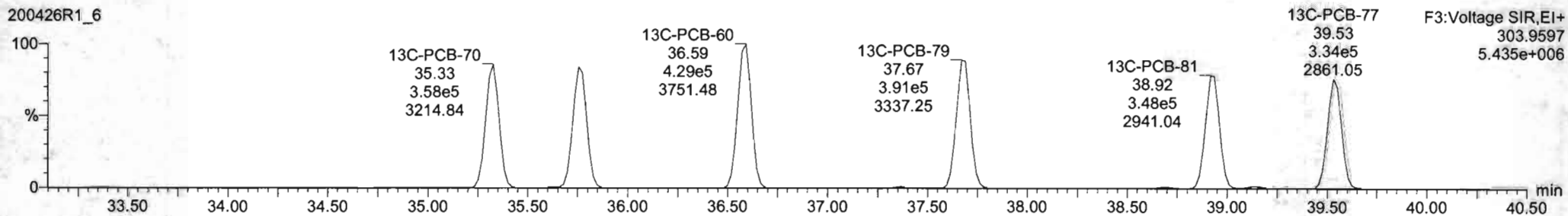
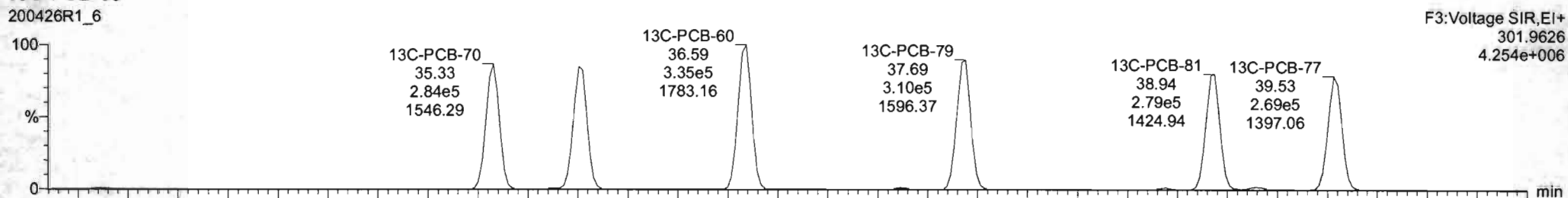
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

PCB-68

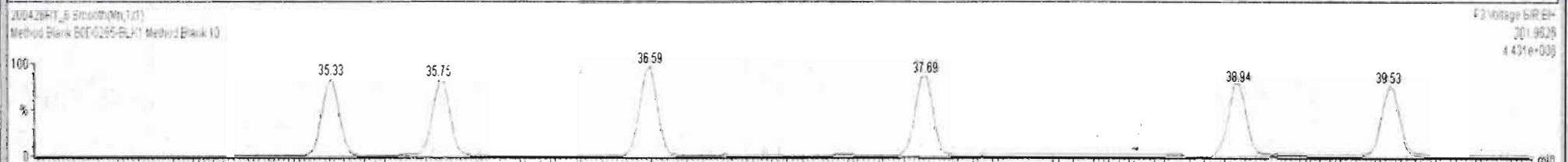
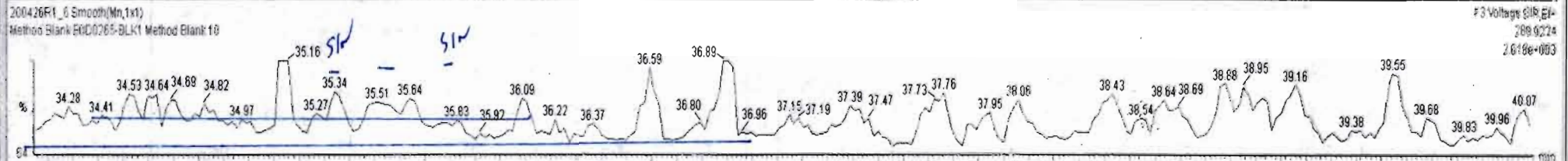


13C-PCB-60



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
226	2nd Function Tri-PCBs				1.0203	5.000	0.00		0.000		NO			1.40	
227	3rd Function Tri-PCBs				0.7089	5.000	0.00		0.000		NO			3.84	
228	Total Tetra-PCBs				0.9689	5.000	0.00		0.000		NO			7.49	
229	3rd Function Penta-PCBs				1.2565	5.000	0.00		0.000		NO			9.51	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1*Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



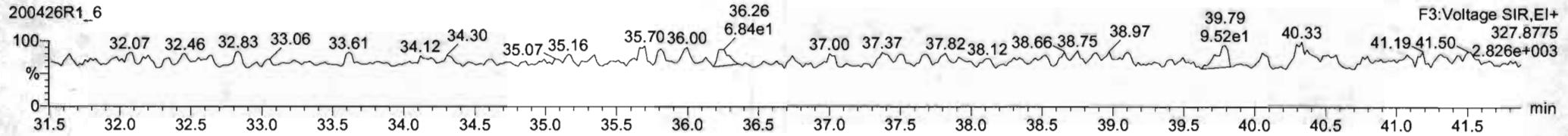
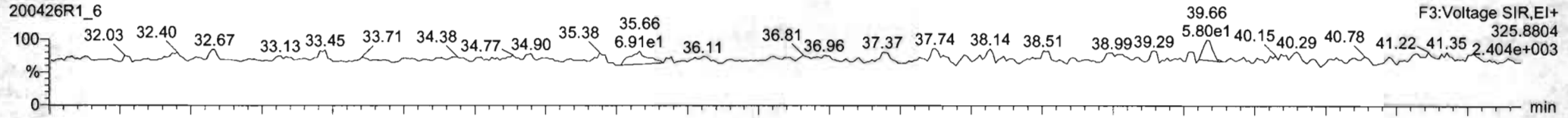
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Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

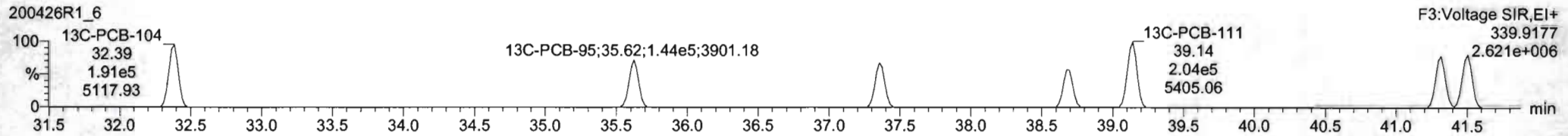
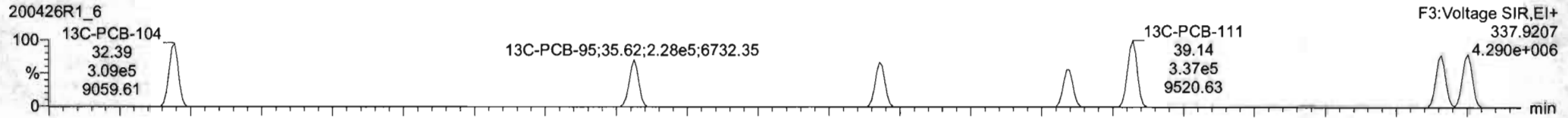
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

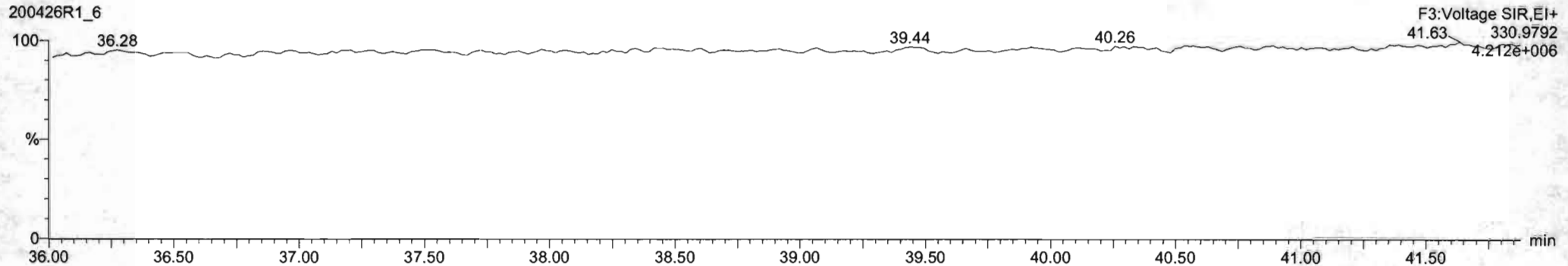
**PCB-104**



**13C-PCB-104**



**PFK3c**

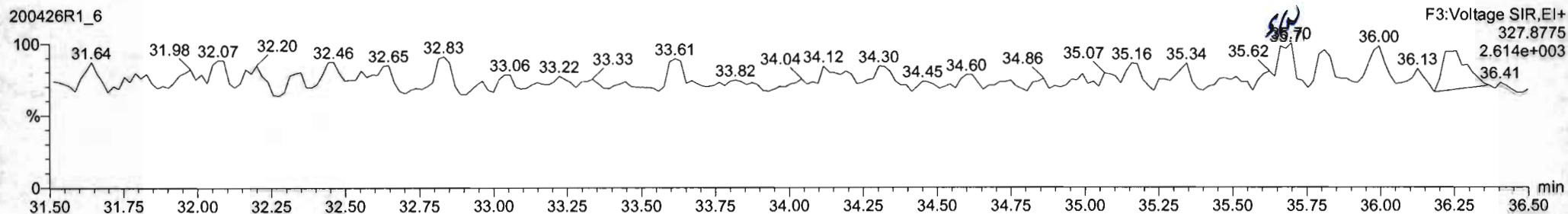
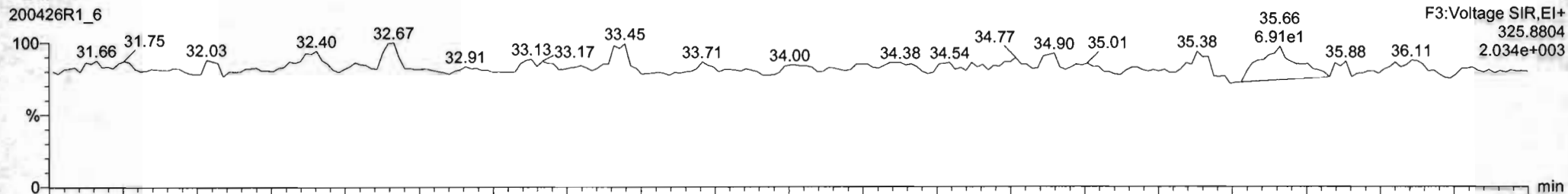


Dataset: Untitled

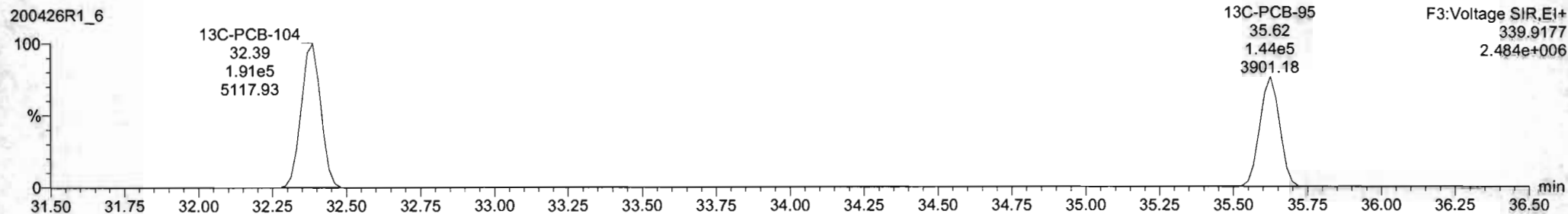
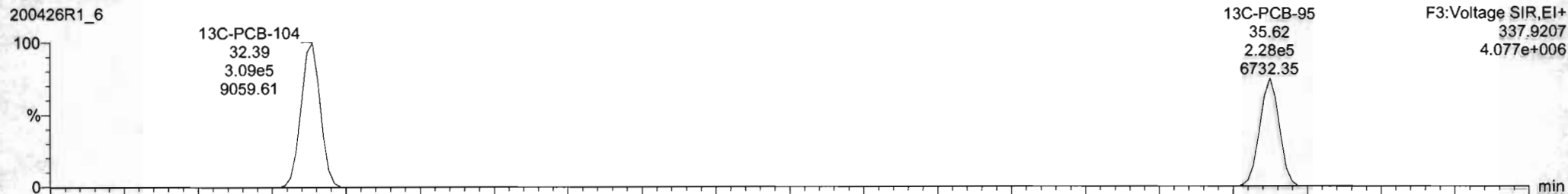
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

PCB-96

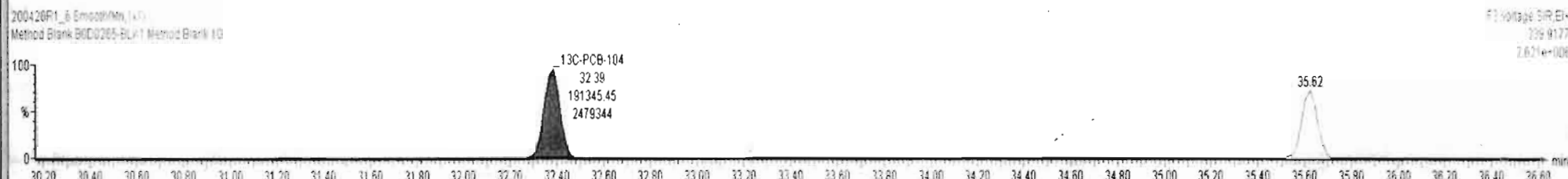
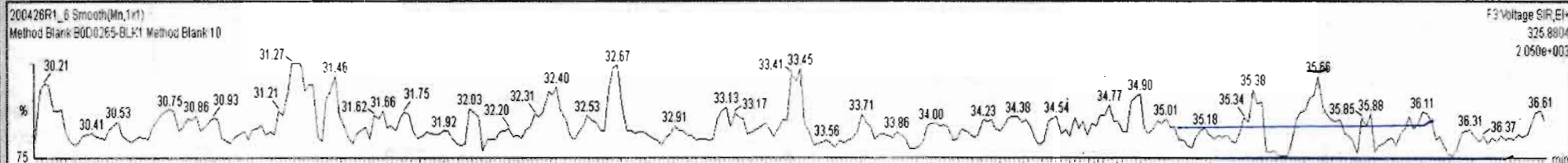


13C-PCB-95



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
229	229	3rd Function Penta-PCBs			1.2585	5.000	0.00		0.000		NO			9.51	
230	230	4th Function Penta-PCBs			0.8593	5.000	0.00		0.000		NO			1.70	
231	231	3rd Function Hexa-PCBs			0.9107	5.000	0.00		0.000		NO			2.63	
232	232	4th Function Hexa-PCBs			0.9326	5.000	0.00		0.000		NO			3.37	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



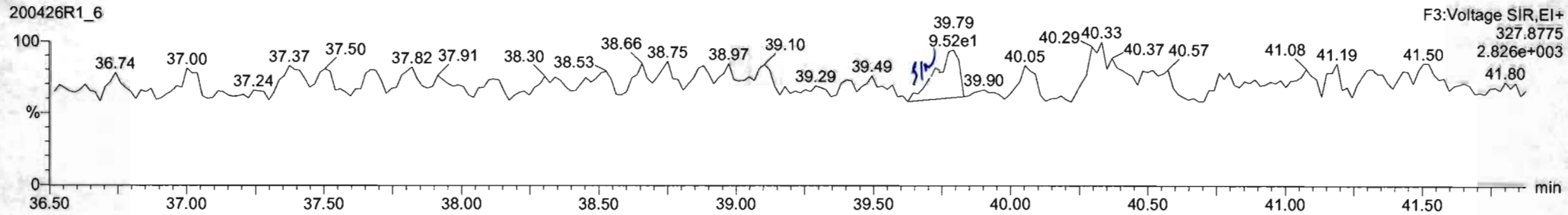
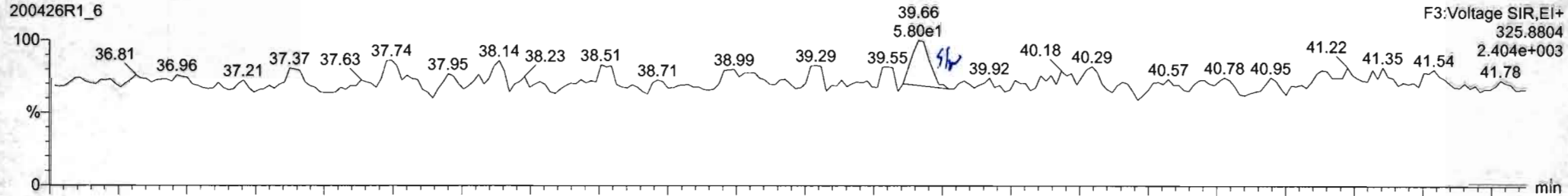


Dataset: Untitled

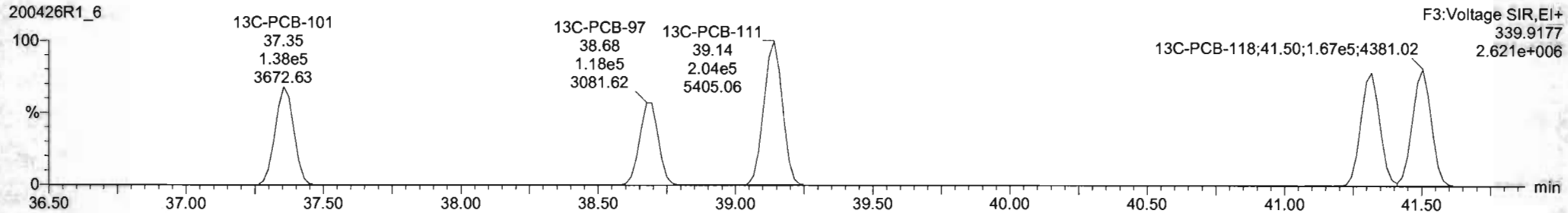
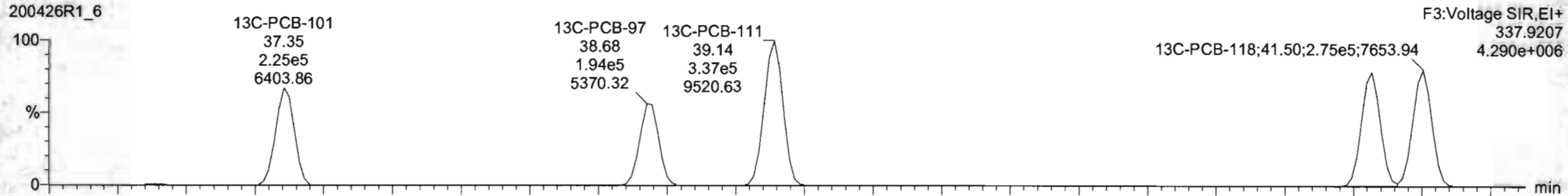
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

PCB-119

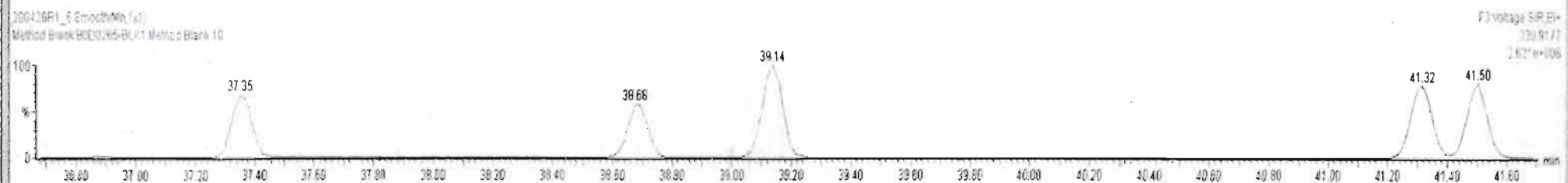
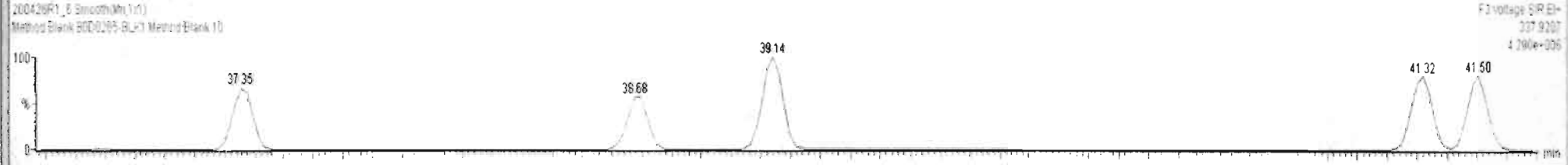
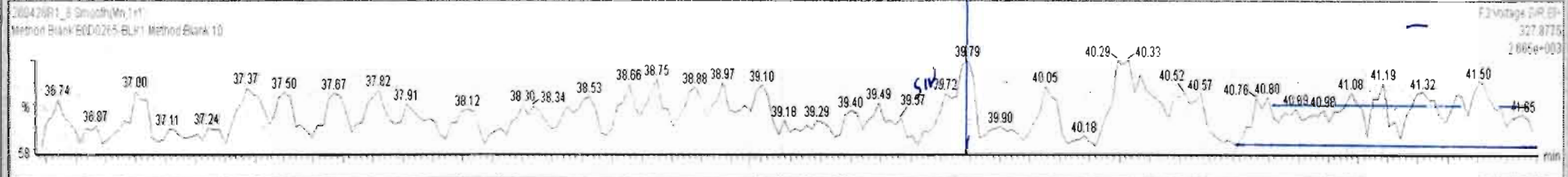
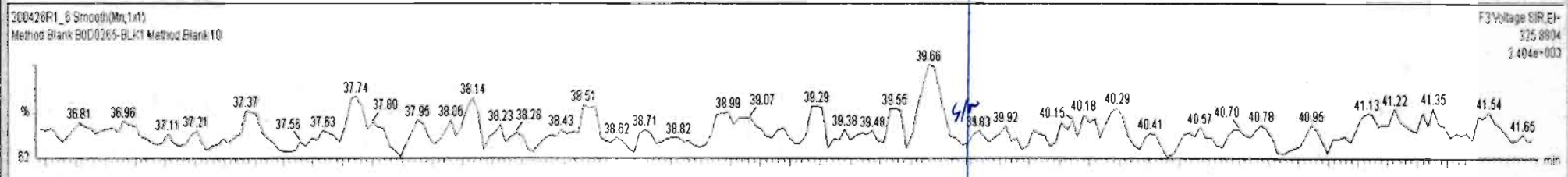


13C-PCB-111



#	Name	Resp	RA	n/y	RRF	mVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
229	229 3rd Function Penta-PCBs				1.2565	5.000	0.00		0.000		NO			9.51	
230	230 4th Function Penta-PCBs				0.8593	5.000	0.00		0.000		NO			1.70	
231	231 3rd Function Hexa-PCBs				0.9107	5.000	0.00		0.000		NO			2.63	
232	232 4th Function Hexa-PCBs				0.9326	5.000	0.00		0.000		NO			3.37	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



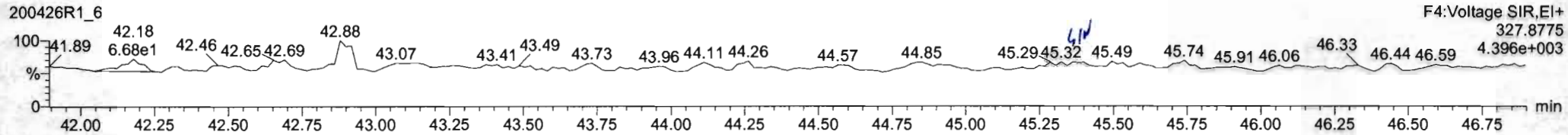
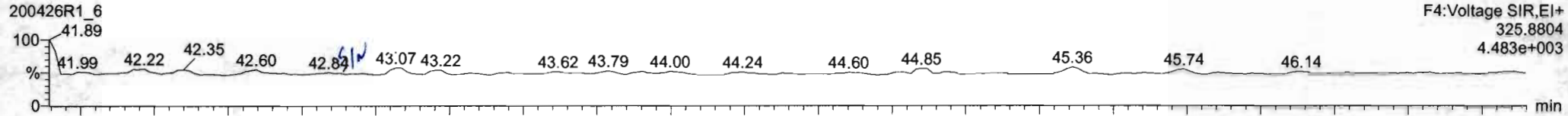
Dataset: Untitled

Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

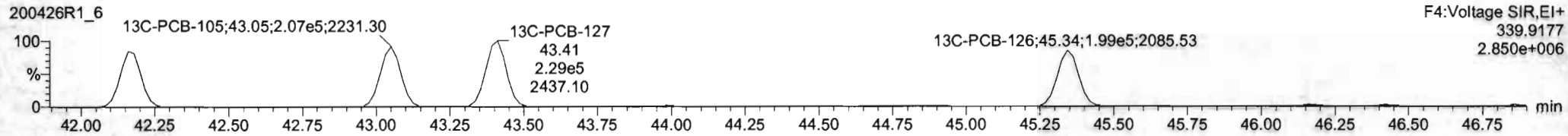
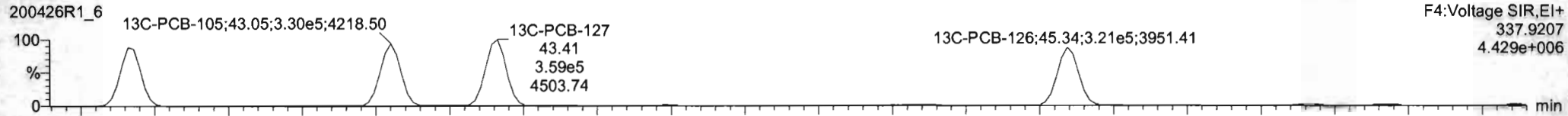
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

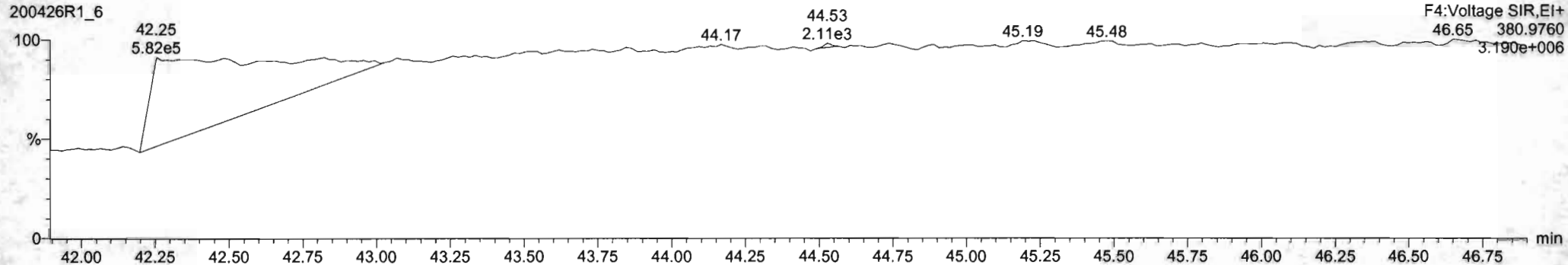
PCB-114



13C-PCB-114



PFK4a

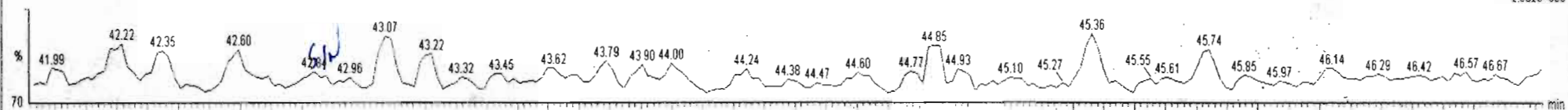


#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
229	229 3rd Function Penta-PCBs				1.2585	5.000	0.00		0.000		NO			9.51	
230	230 4th Function Penta-PCBs				0.8583	5.000	0.00		0.000		NO			1.70	
231	231 3rd Function Hexa-PCBs				0.9107	5.000	0.00		0.000		NO			2.63	
232	232 4th Function Hexa-PCBs				0.9328	5.000	0.00		0.000		NO			3.37	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1										

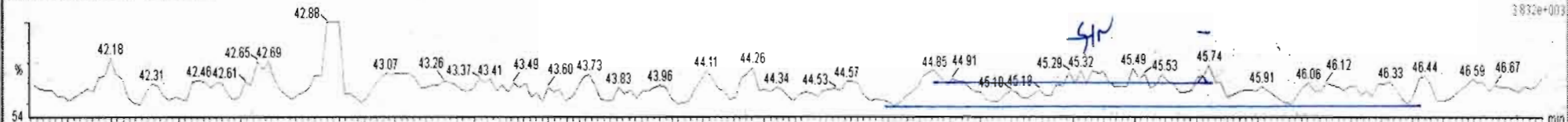
200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10

F4 Voltage S1R,El+  
325.8804  
2.832e+003



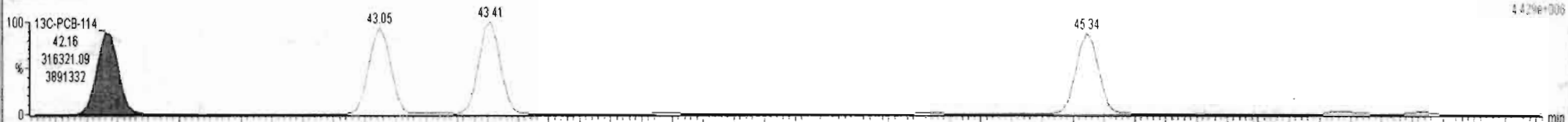
200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10

F4 Voltage S1R,El+  
327.8175  
3.832e+003



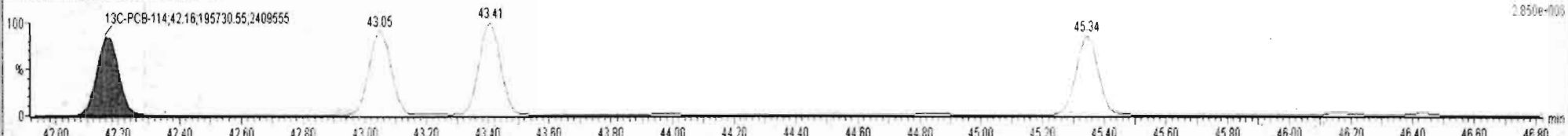
200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10

F4 Voltage S1R,El+  
337.8207  
4.429e+006



200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10

F4 Voltage S1R,El+  
339.8177  
2.850e+008



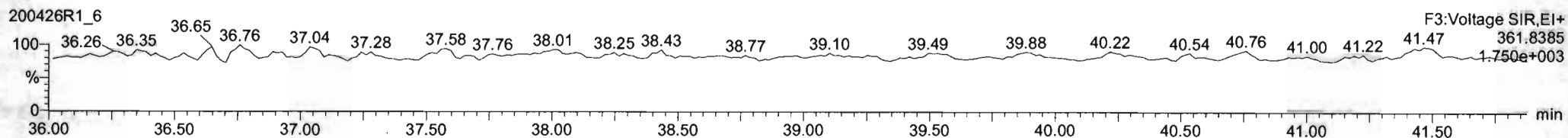
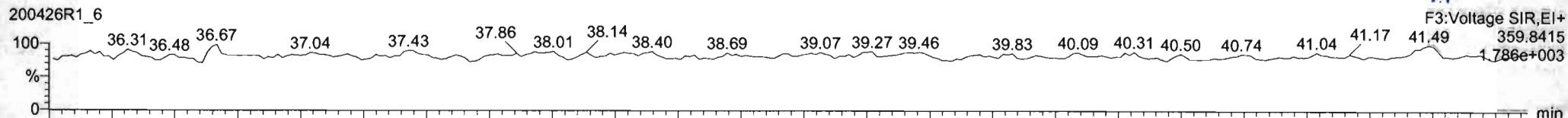
Dataset: Untitled

Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

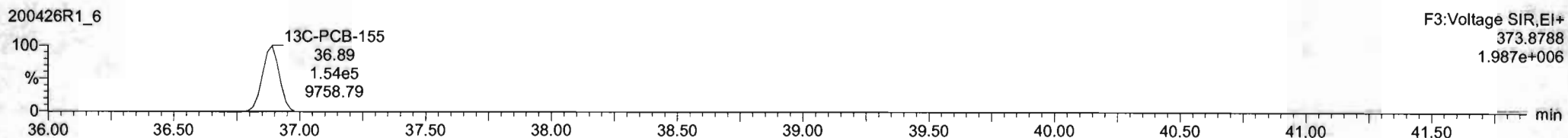
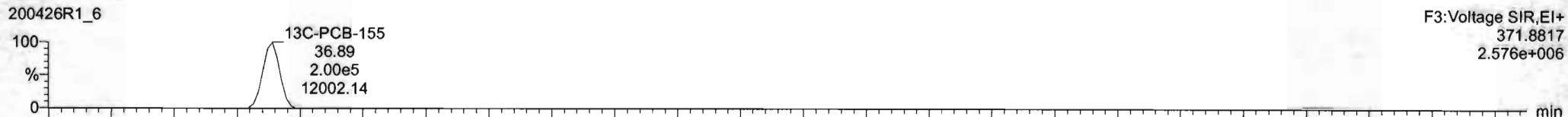
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

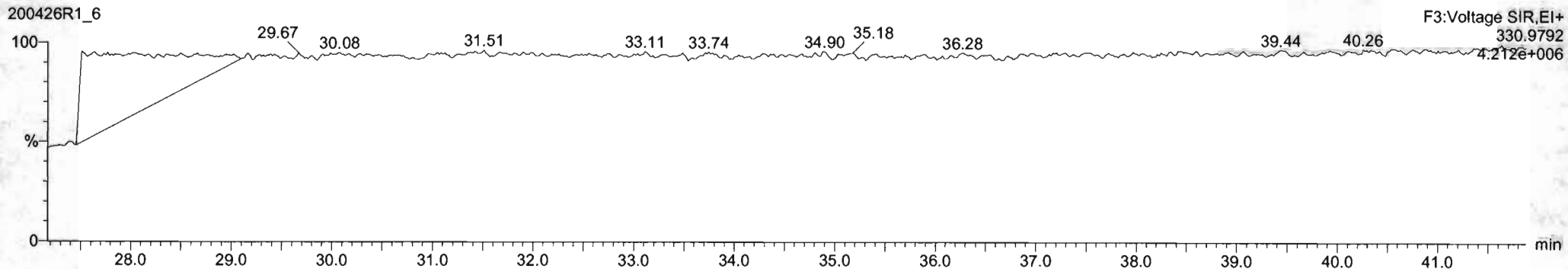
**PCB-155**



**13C-PCB-155**



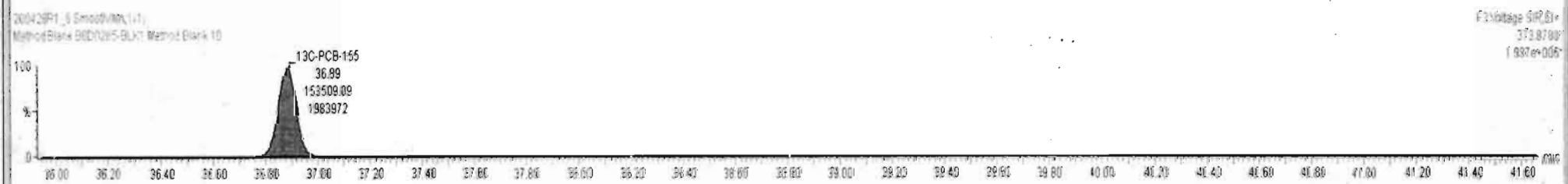
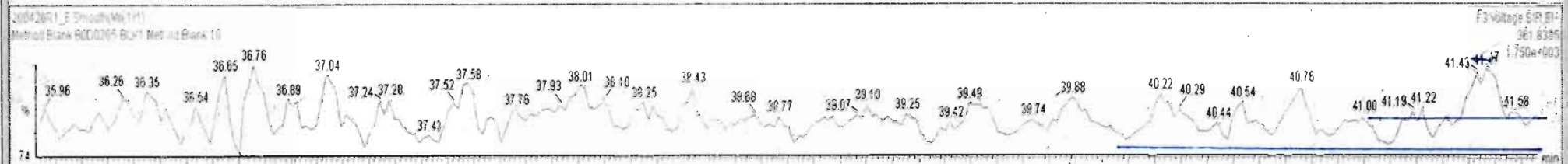
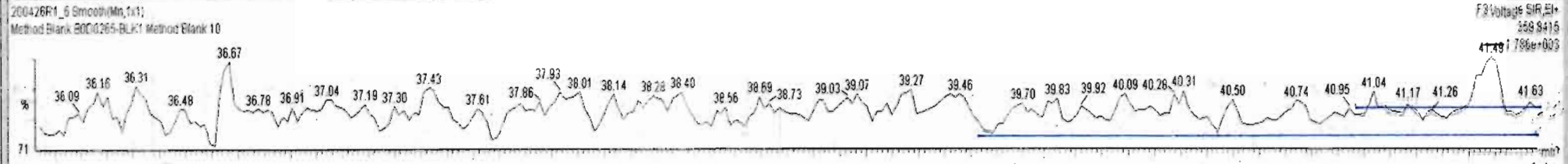
**PFK3d**



200426R1\_6 - BOD0265-BLK1 Method Blank 10 - Method Blank

#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
229	229 3rd Function Penta-PCBs				1.2585	5.000	0.00		0.000		NO			9.51	
230	230 4th Function Penta-PCBs				0.8593	5.000	0.00		0.000		NO			1.70	
231	231 3rd Function Hexa-PCBs				0.9107	5.000	0.00		0.000		NO			2.63	
232	232 4th Function Hexa-PCBs				0.9328	5.000	0.00		0.000		NO			3.37	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1										



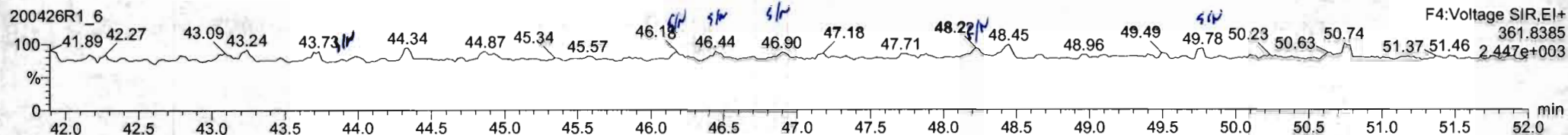
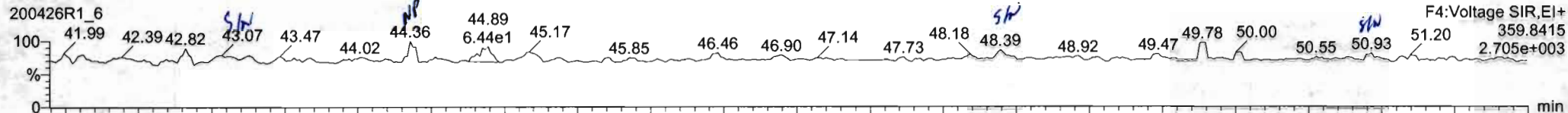
Dataset: Untitled

Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

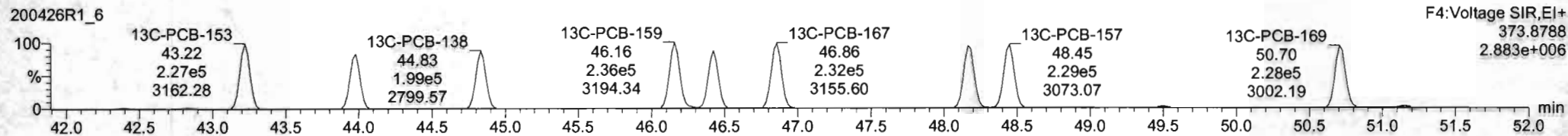
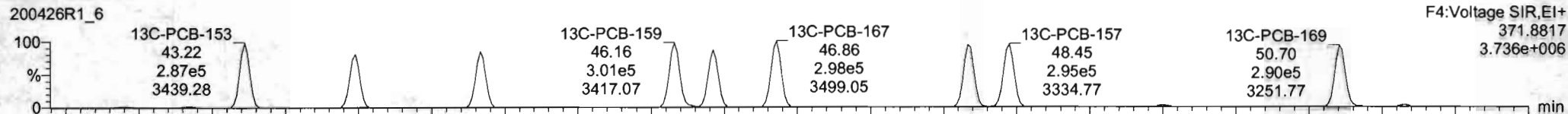
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

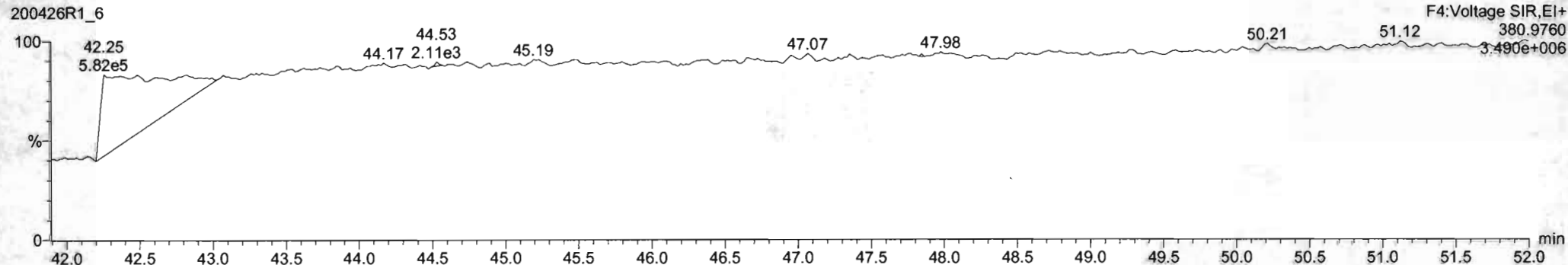
**PCB-134/143**



**13C-PCB-153**



**PFK4b**

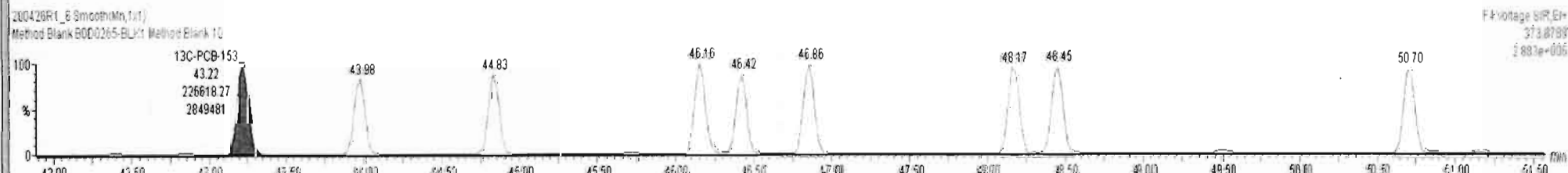
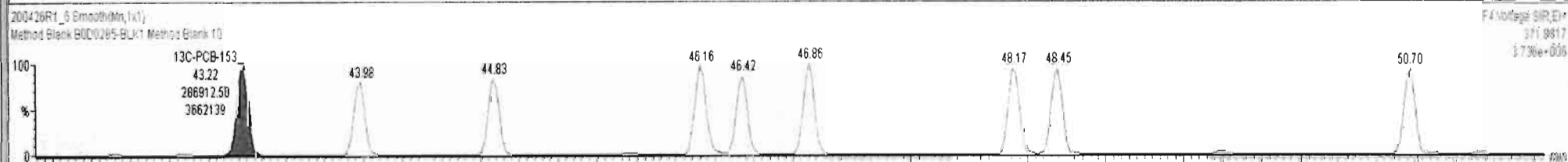
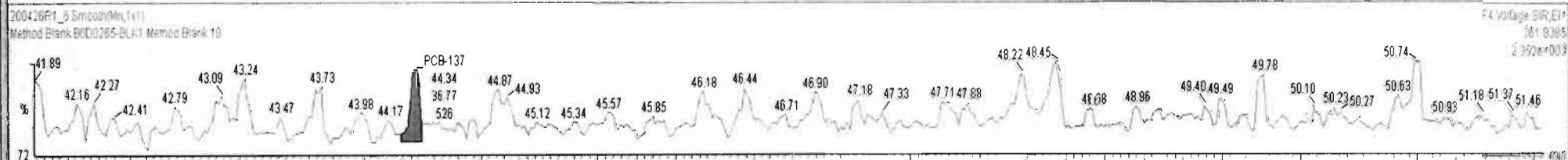
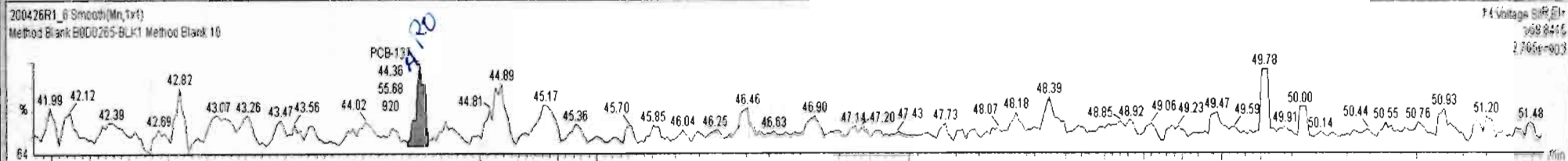


200426R1\_6 - B0D0265-BLK1 Method Blank 10 - Method Blank

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				0.9326	5.000	0.00		0.000		NO	0.0000		3.28	0.4187
233	233 Total Hepta-PCBs				1.3144	5.000	0.00		0.000		NO			5.10	
234	234 4th Function Octa-PCBs				0.9222	5.000	0.00		0.000		NO			1.58	
235	235 5th Function Octa-PCBs				0.9473	5.000	0.00		0.000		NO	0.0000		0.306	0.8137
236	236 Total Nona-PCBs				0.8998	5.000	0.00		0.000		NO			0.281	

#	Name	Pred R...	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	118 PCB-137	44.40	44.36	5.568e1	3.677e1	1.240	1.51	YES	0.41867	0.00000

RT



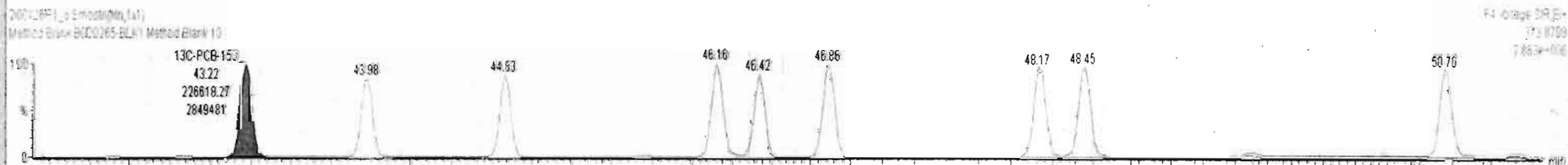
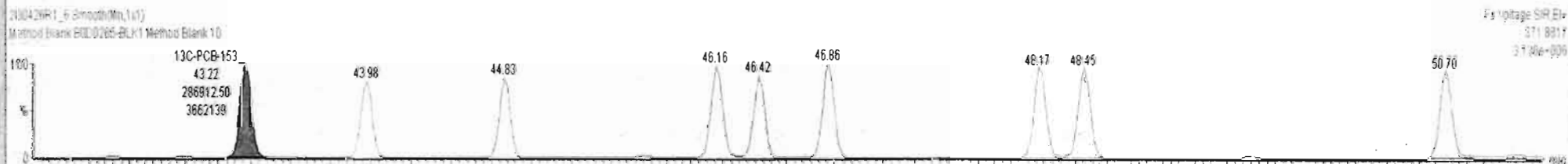
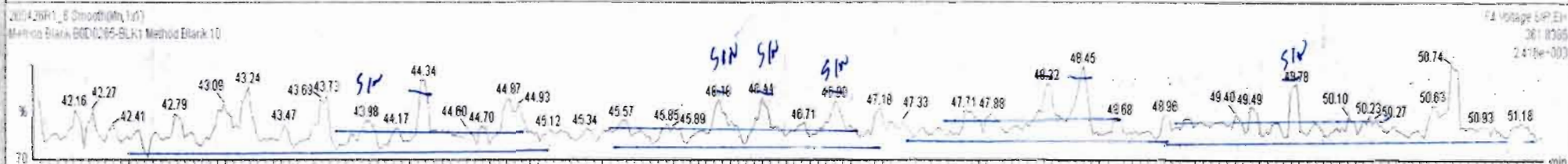
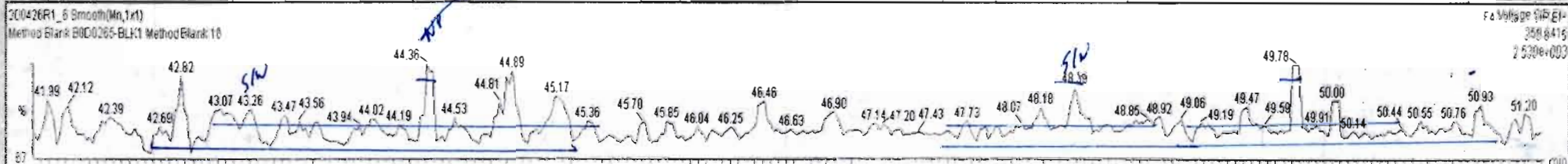


200426R1\_6 - BDD0265-BLK1 Method Blank 10 - Method Blank

#	Name	Resp	RA	nly	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
229	229 3rd Function Penta-PCBs				1.2565	5.000	0.00		0.000		NO			9.51	
230	230 4th Function Penta-PCBs				0.8593	5.000	0.00		0.000		NO			1.70	
231	231 3rd Function Hexa-PCBs				0.9107	5.000	0.00		0.000		NO			2.63	
232	232 4th Function Hexa-PCBs				0.9328	5.000	0.00		0.000		NO			3.37	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1										

*Handwritten note:* No peaks - only 05-01-2020



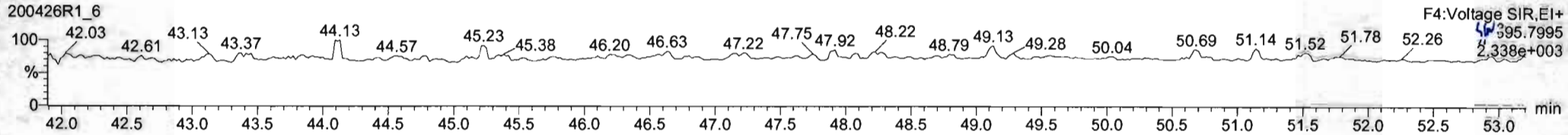
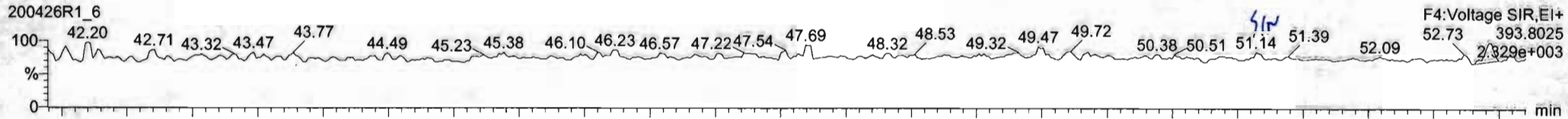
Dataset: Untitled

Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

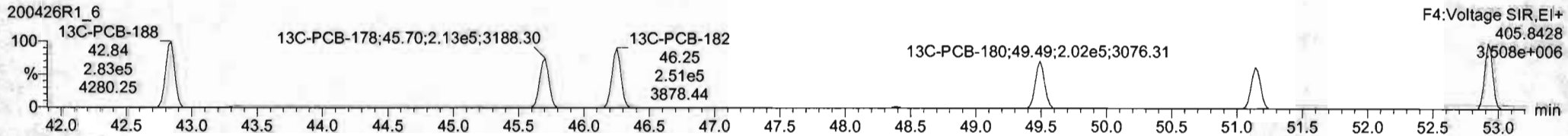
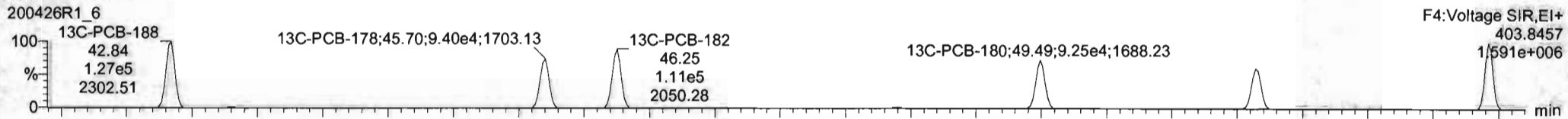
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

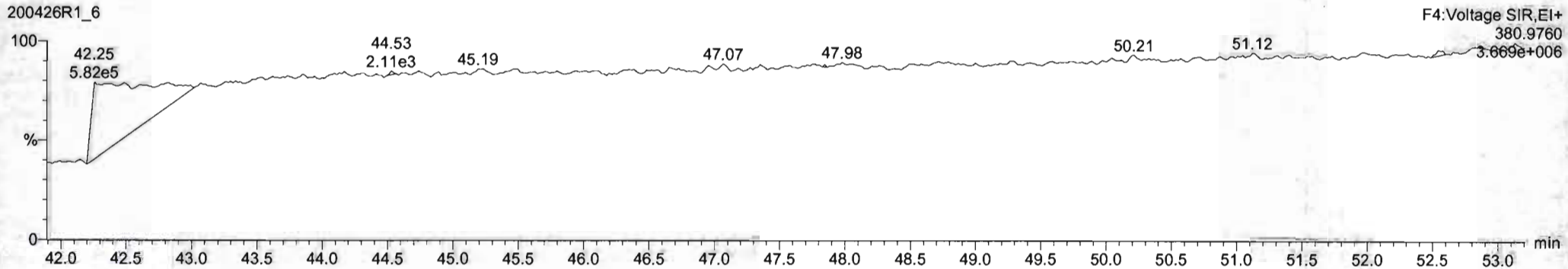
**PCB-188**



**13C-PCB-188**



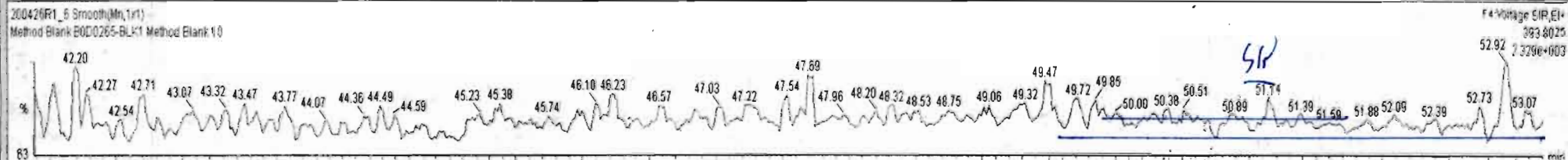
**PFK4c**



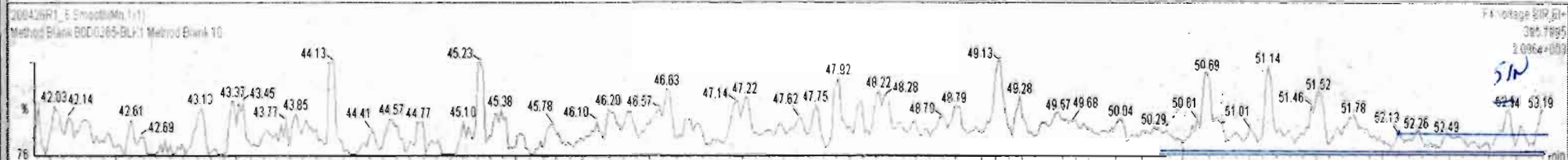
#	Name	Resp	RA	nly	RRF	wVol	Pred RT	RT	Pred R...	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
229	3rd Function Penta-PCBs				1.2565	5.000	0.00		0.000		NO			9.51	
230	4th Function Penta-PCBs				0.8593	5.000	0.00		0.000		NO			1.70	
231	3rd Function Hexa-PCBs				0.9107	5.000	0.00		0.000		NO			2.63	
232	4th Function Hexa-PCBs				0.9328	5.000	0.00		0.000		NO			3.37	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1										

200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK:1 Method Blank 10



200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK:1 Method Blank 10



200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK:1 Method Blank 10



200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK:1 Method Blank 10

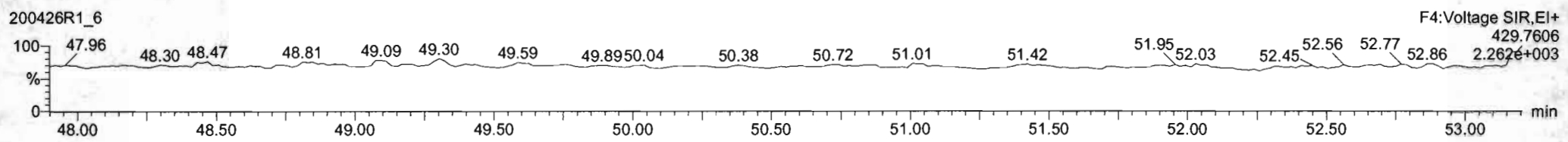
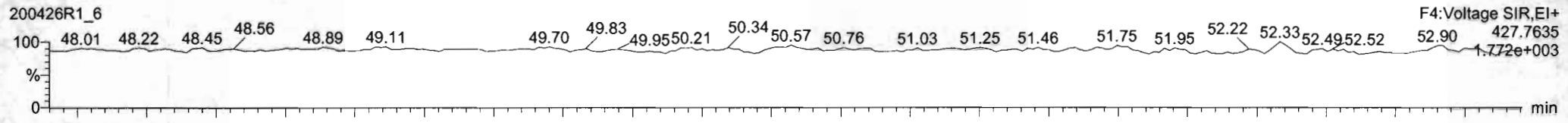


Dataset: Untitled

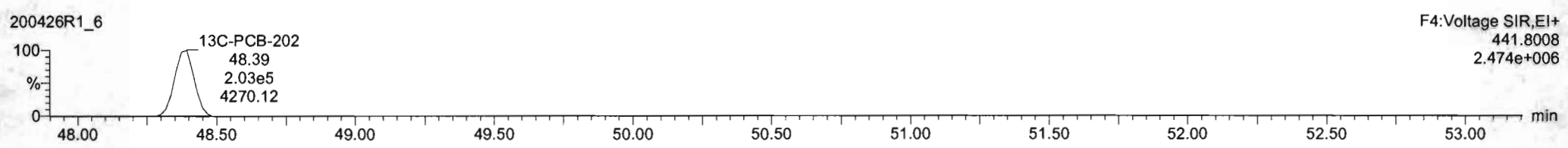
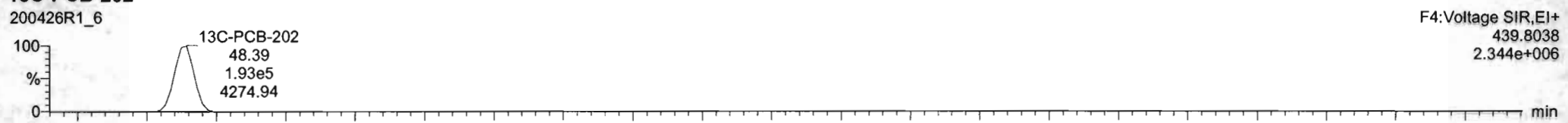
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

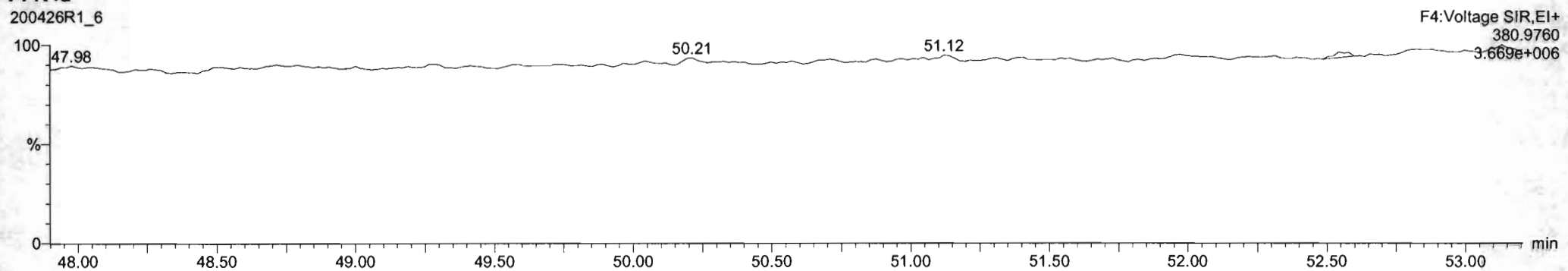
**PCB-202**



**13C-PCB-202**



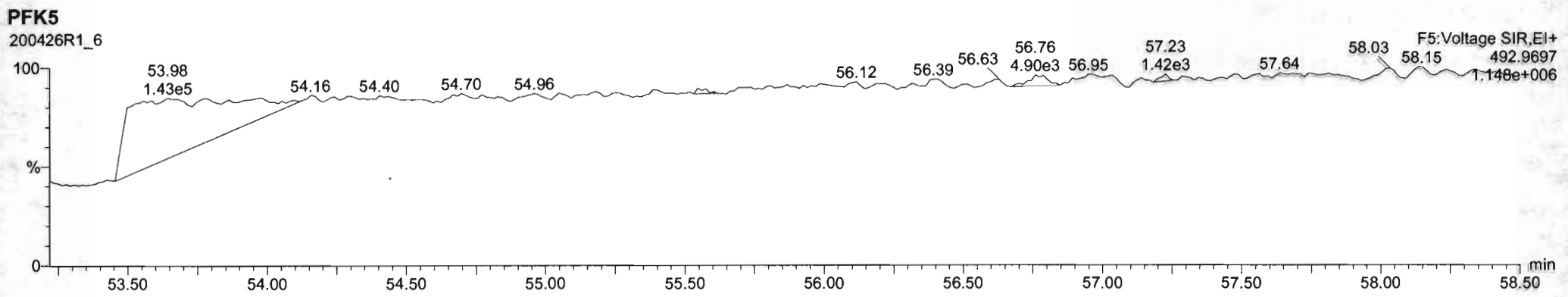
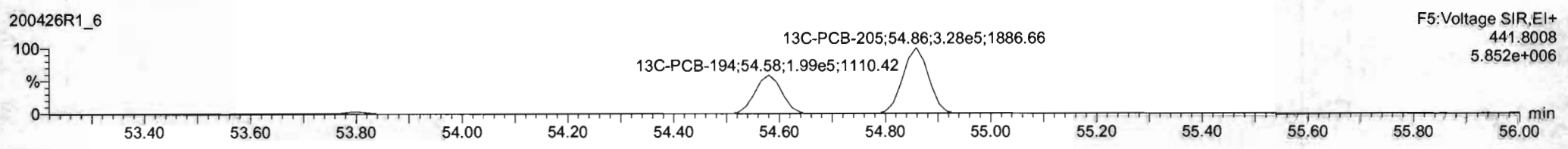
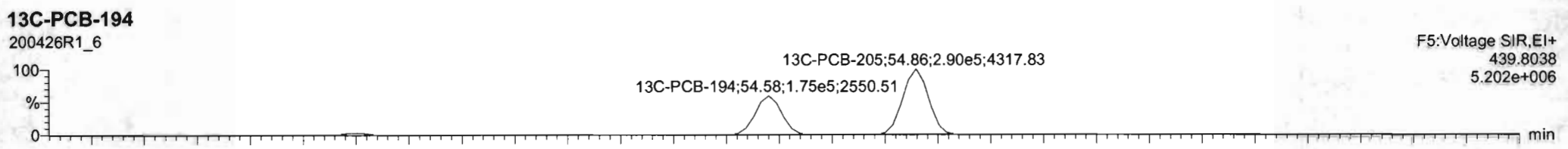
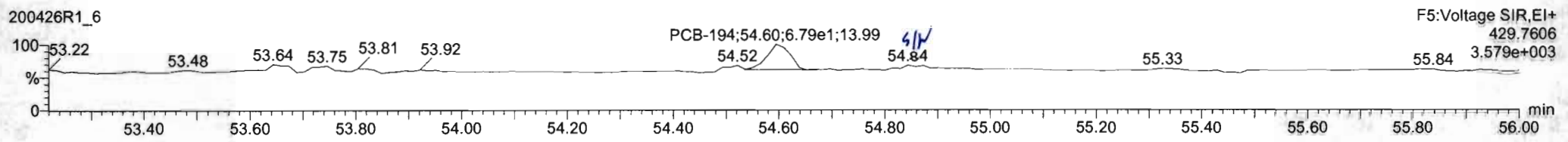
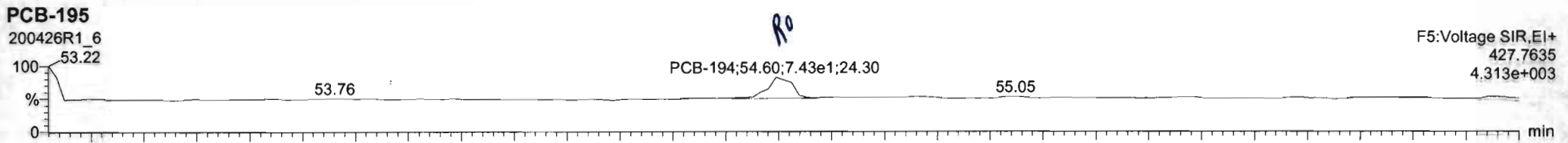
**PFK4d**

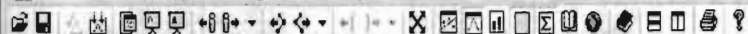


Dataset: Untitled

Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank



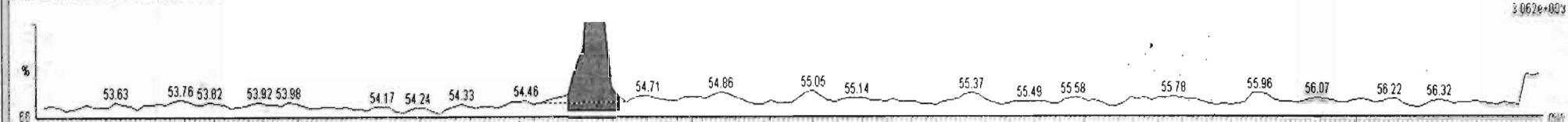


200426R1\_6 - B0D0265-BLK1 Method Blank 10 - Method Blank

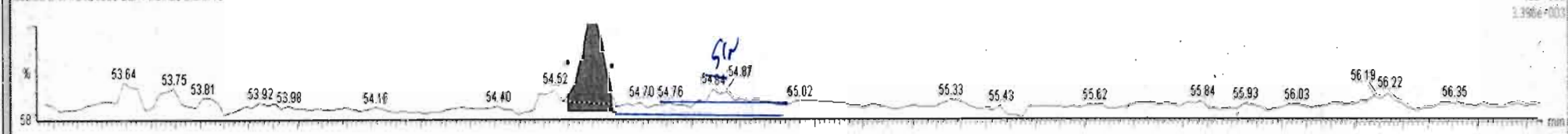
#	Name	Resp	RA	nly	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
234	234 4th Function Octa-PCBs				0.9222	5.000	0.00		0.000		NO			1.58	
235	235 5th Function Octa-PCBs				0.9473	5.000	0.00		0.000		NO	0.0000		0.308	0.8137
236	236 Total Nona-PCBs				0.8998	5.000	0.00		0.000		NO			0.261	
237	237 Deca-CB				0.9558	5.000	0.00		0.000		NO			0.0770	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	1 PCB-194	54.58	54.60	8.031e1	7.768e1	0.890	1.03	YES	0.81366	0.00000

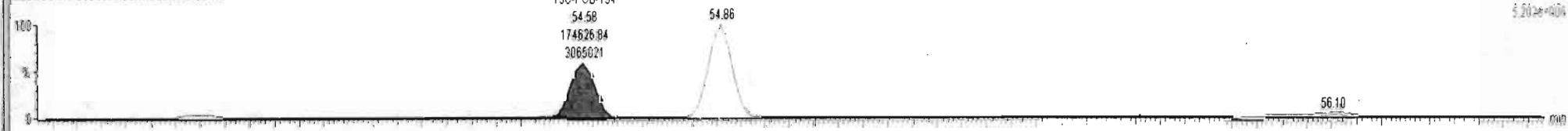
200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10



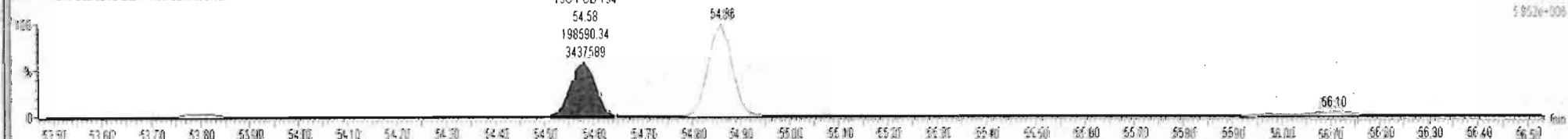
200426R1\_5 Smooth(Mn,1.0)  
Method Blank B0D0265-BLK1 Method Blank 10



200426R1\_6 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10



200426R1\_8 Smooth(Mn,1x1)  
Method Blank B0D0265-BLK1 Method Blank 10



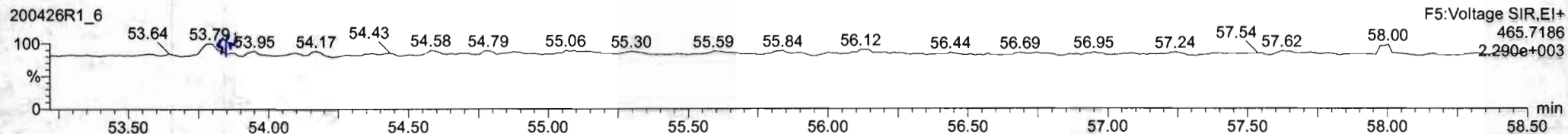
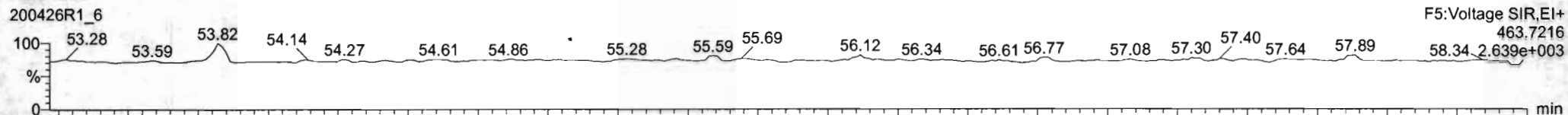
Dataset: Untitled

Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

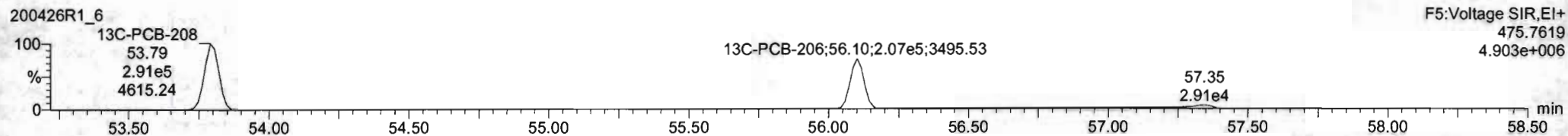
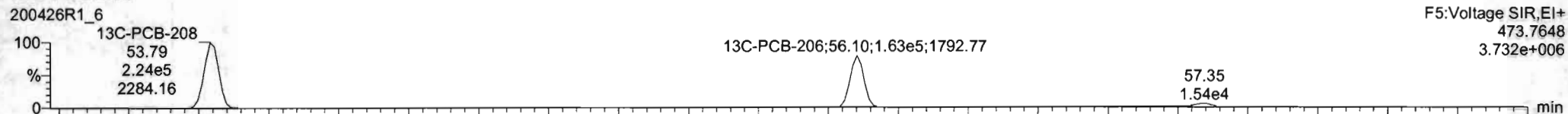
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

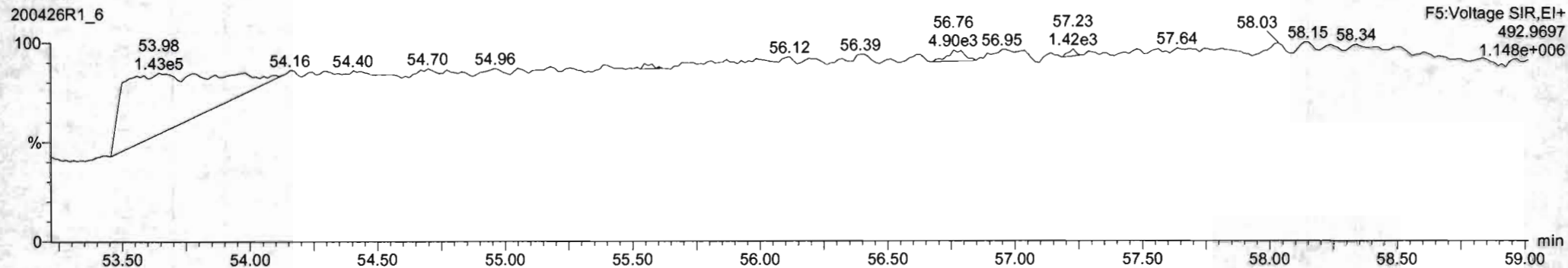
**PCB-208**



**13C-PCB-208**

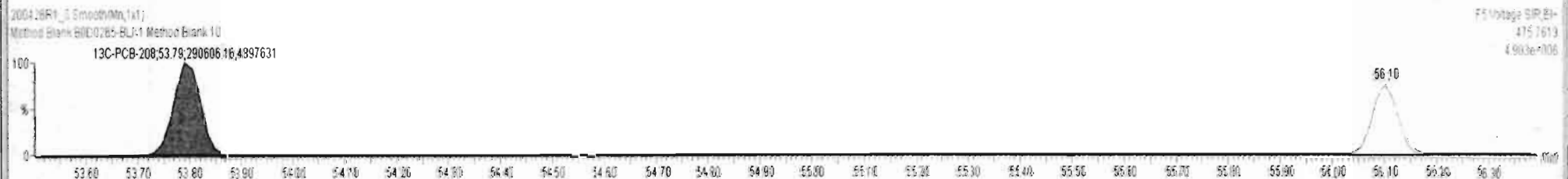
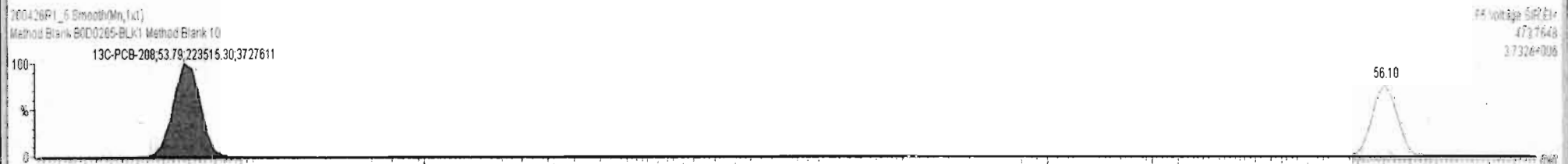
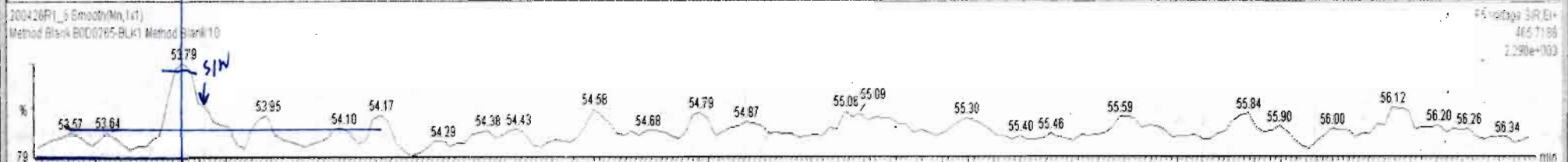
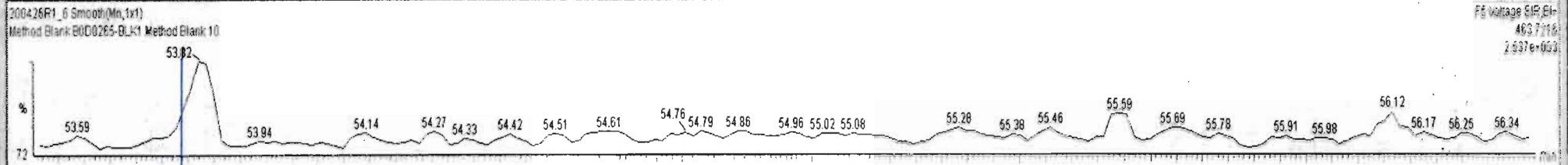


**PFK5a**



#	Name	Resp	RA	nly	RRF	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
234	234 4th Function Octa-PCBs				0.9222	5.000	0.00		0.000		NO			1.58	
235	235 5th Function Octa-PCBs				0.9473	5.000	0.00		0.000		NO	0.0000		0.308	0.8137
236	236 Total Nona-PCBs				0.8998	5.000	0.00		0.000		NO			0.281	
237	237 Deca-CB				0.9558	5.000	0.00		0.000		NO			0.0770	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1										





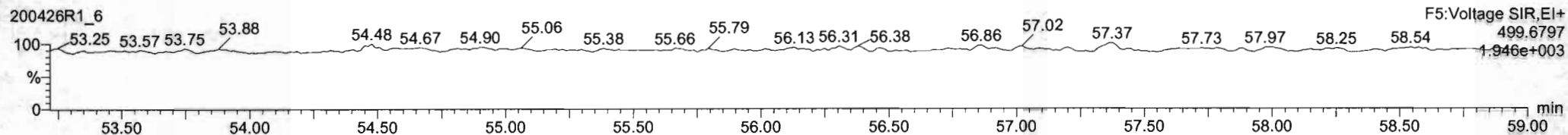
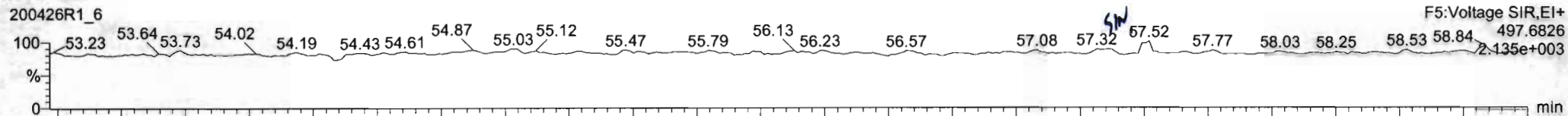
Dataset: Untitled

Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

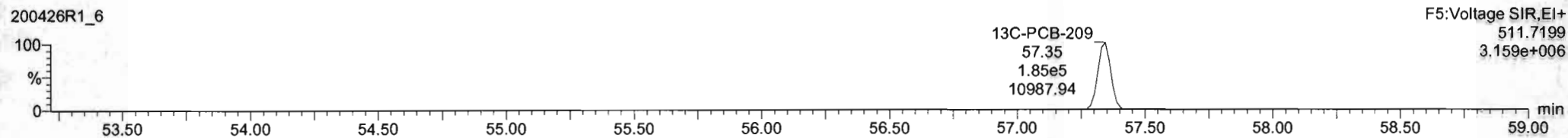
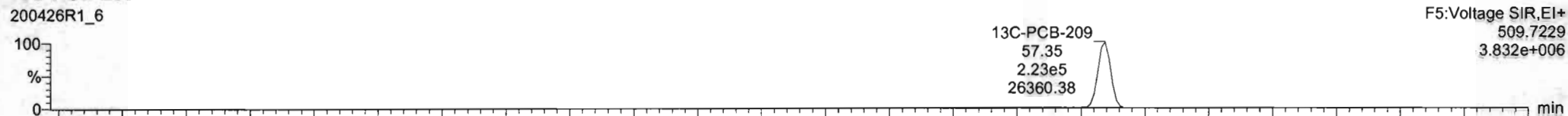
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_6, Date: 26-Apr-2020, Time: 16:47:48, ID: B0D0265-BLK1 Method Blank 10, Description: Method Blank

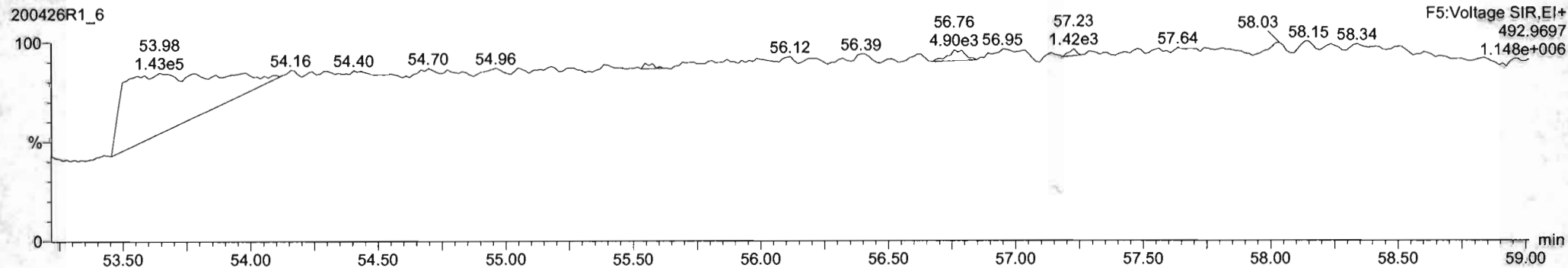
**PCB-209**



**13C-PCB-209**



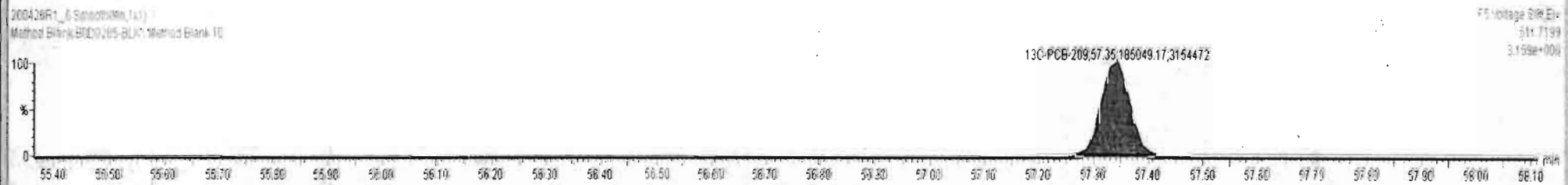
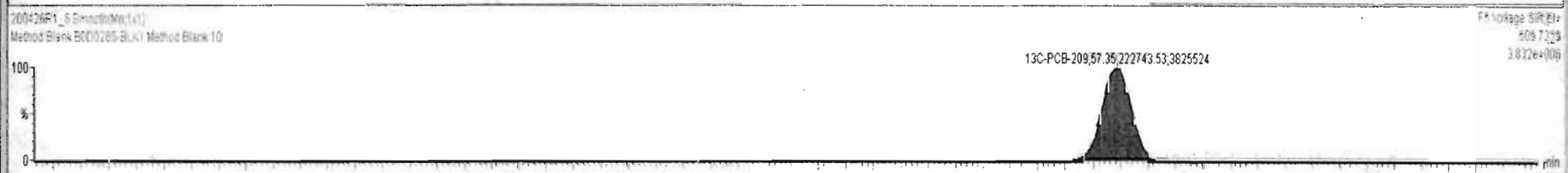
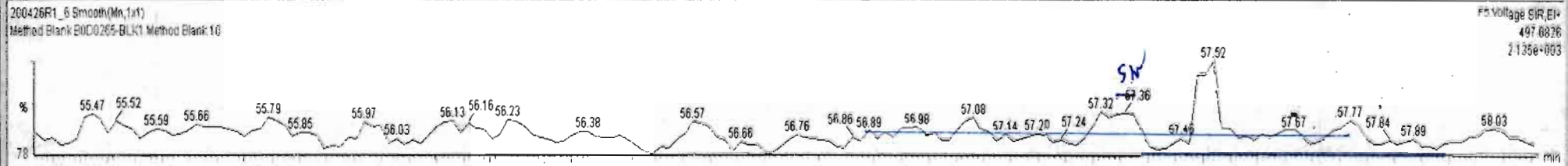
**PFK5b**



200426R1\_6 - B0D0265-BLK1 Method Blank; 10 - Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
234	234 4th Function Octa-PCBs				0.9222	5.000	0.00		0.000		NO			1.58	
235	235 5th Function Octa-PCBs				0.9473	5.000	0.00		0.000		NO	0.0000		0.308	0.8137
236	236 Total Nona-PCBs				0.8998	5.000	0.00		0.000		NO			0.281	
237	237 Deca-CB				0.9558	5.000	0.00		0.000		NO			0.0770	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



Dataset: U:\VG12.PRO\Results\200426R1\200426R1-3.qld

Last Altered: Wednesday, April 29, 2020 12:44:40 Pacific Daylight Time

Printed: Wednesday, April 29, 2020 12:45:14 Pacific Daylight Time

*GRB 04/29/2020*

*05/01/2020*

Method: U:\VG12.PRO\MethDB\PCB-209\_ZB1\_4-23-20.mdb 23 Apr 2020 11:56:31

Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	7.56e5	3.20	NO	1.08	5.000	15.57	15.57	1.001	1.001	NO	1094		0.129	1094
2	2 PCB-2	7.55e5	3.18	NO	1.03	5.000	17.96	17.96	0.988	0.988	NO	1177		0.140	1177
3	3 PCB-3	7.34e5	3.22	NO	1.08	5.000	18.19	18.20	1.001	1.001	NO	1088		0.133	1088
4	4 PCB-4/10	8.46e5	1.48	NO	0.897	5.000	19.60	19.60	1.005	1.004	NO	2392		0.933	2392
5	5 PCB-7/9	1.05e6	1.48	NO	0.715	5.000	21.38	21.38	1.002	1.002	NO	2352		0.749	2352
6	6 PCB-6	5.38e5	1.47	NO	0.729	5.000	22.03	22.03	1.033	1.033	NO	1179		0.735	1179
7	7 PCB-5/8	1.05e6	1.49	NO	0.722	5.000	22.44	22.43	1.052	1.052	NO	2319		0.742	2319
8	8 PCB-14	5.48e5	1.49	NO	0.753	5.000	23.56	23.56	0.952	0.952	NO	1225		0.775	1225
9	9 PCB-11	5.69e5	1.49	NO	0.834	5.000	24.78	24.77	1.001	1.001	NO	1148		0.700	1148
10	10 PCB-12/13	1.05e6	1.48	NO	0.733	5.000	25.14	25.15	1.016	1.016	NO	2417		0.796	2417
11	11 PCB-15	5.47e5	1.47	NO	0.782	5.000	25.49	25.49	1.030	1.030	NO	1178		0.747	1178
12	12 PCB-19	3.77e5	1.06	NO	1.06	5.000	23.73	23.73	1.001	1.001	NO	1079		0.280	1079
13	13 PCB-30	6.12e5	1.07	NO	1.63	5.000	24.65	24.65	1.040	1.040	NO	1137		0.182	1137
14	14 PCB-18	4.10e5	1.06	NO	0.777	5.000	25.40	25.40	0.952	0.952	NO	1065		0.262	1065
15	15 PCB-17	3.90e5	1.05	NO	0.734	5.000	25.58	25.58	0.959	0.959	NO	1074		0.278	1074
16	16 PCB-24/27	1.11e6	1.05	NO	1.02	5.000	26.17	26.17	0.981	0.981	NO	2199		0.201	2199
17	17 PCB-16/32	9.57e5	1.06	NO	0.900	5.000	26.70	26.70	1.001	1.001	NO	2148		0.227	2148
18	18 PCB-34	4.50e5	0.98	NO	0.664	5.000	27.51	27.51	0.959	0.959	NO	1153		1.11	1153
19	19 PCB-23	3.99e5	0.99	NO	0.616	5.000	27.60	27.60	0.962	0.962	NO	1102		1.20	1102
20	20 PCB-29	4.14e5	0.98	NO	0.615	5.000	27.86	27.86	0.971	0.971	NO	1145		1.20	1145
21	21 PCB-26	4.43e5	0.98	NO	0.666	5.000	28.07	28.07	0.979	0.979	NO	1132		1.11	1132
22	22 PCB-25	4.45e5	0.98	NO	0.650	5.000	28.25	28.24	0.985	0.984	NO	1164		1.13	1164
23	23 PCB-31	4.78e5	0.97	NO	0.749	5.000	28.61	28.61	0.998	0.997	NO	1084		0.985	1084
24	24 PCB-28	5.29e5	0.98	NO	0.775	5.000	28.72	28.70	1.001	1.001	NO	1162		0.952	1162
25	25 PCB-20/21/33	1.36e6	0.99	NO	0.669	5.000	29.33	29.33	1.023	1.023	NO	3462		1.10	3462
26	26 PCB-22	4.80e5	0.99	NO	0.731	5.000	29.78	29.78	1.038	1.038	NO	1117		1.01	1117
27	27 PCB-36	4.93e5	0.99	NO	0.786	5.000	30.43	30.41	0.932	0.932	NO	1170		1.02	1170
28	28 PCB-39	4.54e5	0.98	NO	0.730	5.000	30.90	30.90	0.946	0.946	NO	1161		1.10	1161
29	29 PCB-38	4.85e5	1.00	NO	0.772	5.000	31.70	31.68	0.971	0.970	NO	1172		1.04	1172
30	30 PCB-35	4.87e5	0.99	NO	0.747	5.000	32.22	32.22	0.987	0.987	NO	1216		1.07	1216
31	31 PCB-37	4.76e5	0.99	NO	0.756	5.000	32.66	32.67	1.000	1.001	NO	1175		1.06	1175

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-3.qld

Last Altered: Wednesday, April 29, 2020 12:44:40 Pacific Daylight Time

Printed: Wednesday, April 29, 2020 12:45:14 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 PCB-54	5.09e5	0.79	NO	0.999	5.000	27.55	27.55	1.001	1.001	NO	1152		0.492	1152
33	33 PCB-50	4.22e5	0.78	NO	0.788	5.000	28.76	28.76	1.045	1.045	NO	1208		0.624	1208
34	34 PCB-53	3.93e5	0.79	NO	0.933	5.000	29.41	29.41	0.944	0.944	NO	1103		0.619	1103
35	35 PCB-51	4.20e5	0.79	NO	1.02	5.000	29.76	29.76	0.955	0.955	NO	1076		0.564	1076
36	36 PCB-45	3.40e5	0.79	NO	0.762	5.000	30.19	30.19	0.969	0.969	NO	1170		0.757	1170
37	37 PCB-46	3.22e5	0.78	NO	0.738	5.000	30.69	30.69	0.985	0.985	NO	1143		0.781	1143
38	38 PCB-52/69	9.32e5	0.78	NO	1.09	5.000	31.19	31.19	1.001	1.001	NO	2244		0.530	2244
39	39 PCB-73	6.27e5	0.79	NO	1.30	5.000	31.32	31.31	1.005	1.005	NO	1259		0.442	1259
40	40 PCB-43/49	8.22e5	0.78	NO	0.914	5.000	31.49	31.47	1.011	1.010	NO	2356		0.631	2356
41	41 PCB-47	3.84e5	0.77	NO	0.841	5.000	31.70	31.70	1.001	1.001	NO	1122		0.668	1122
42	42 PCB-48/75	9.89e5	0.79	NO	1.01	5.000	31.81	31.81	1.004	1.004	NO	2396		0.554	2396
43	43 PCB-65	5.09e5	0.78	NO	1.05	5.000	32.09	32.07	1.013	1.012	NO	1186		0.532	1186
44	44 PCB-62	5.04e5	0.78	NO	1.02	5.000	32.18	32.18	1.016	1.016	NO	1207		0.548	1207
45	45 PCB-44	3.45e5	0.77	NO	0.716	5.000	32.51	32.50	1.026	1.026	NO	1183		0.784	1183
46	46 PCB-42/59	8.99e5	0.78	NO	0.943	5.000	32.74	32.74	1.033	1.033	NO	2341		0.595	2341
47	47 PCB-41/64/71/72	2.07e6	0.78	NO	1.07	5.000	33.33	33.33	1.052	1.052	NO	4753		0.526	4753
48	48 PCB-68	5.36e5	0.78	NO	1.09	5.000	33.61	33.61	1.061	1.061	NO	1205		0.514	1205
49	49 PCB-40	2.59e5	0.77	NO	0.535	5.000	33.82	33.82	1.067	1.068	NO	1188		1.05	1188
50	50 PCB-57	5.73e5	0.78	NO	1.03	5.000	34.17	34.19	0.969	0.969	NO	1160		0.466	1160
51	51 PCB-67	5.34e5	0.78	NO	0.985	5.000	34.49	34.51	0.978	0.978	NO	1134		0.489	1134
52	52 PCB-58	5.95e5	0.80	NO	1.05	5.000	34.62	34.62	0.982	0.982	NO	1180		0.457	1180
53	53 PCB-63	5.28e5	0.79	NO	0.933	5.000	34.77	34.79	0.986	0.986	NO	1182		0.516	1182
54	54 PCB-74	5.60e5	0.78	NO	1.03	5.000	35.06	35.08	0.994	0.995	NO	1140		0.469	1140
55	55 PCB-61/70	1.06e6	0.78	NO	0.968	5.000	35.29	35.21	1.001	0.998	NO	2287		0.498	2287
56	56 PCB-76/66	1.16e6	0.78	NO	1.04	5.000	35.47	35.46	1.006	1.005	NO	2326		0.462	2326
57	57 PCB-80	6.06e5	0.78	NO	1.07	5.000	35.73	35.74	1.000	1.001	NO	1163		0.435	1163
58	58 PCB-55	6.00e5	0.78	NO	1.05	5.000	36.05	36.05	1.009	1.009	NO	1180		0.446	1180
59	59 PCB-56/60	1.05e6	0.79	NO	0.932	5.000	36.55	36.55	1.023	1.023	NO	2312		0.500	2312
60	60 PCB-79	5.99e5	0.78	NO	1.06	5.000	37.67	37.65	1.055	1.054	NO	1169		0.442	1169
61	61 PCB-78	5.69e5	0.78	NO	1.00	5.000	38.36	38.38	0.987	0.987	NO	1194		0.494	1194
62	62 PCB-81	5.14e5	0.79	NO	0.954	5.000	38.90	38.90	1.000	1.000	NO	1130		0.518	1130
63	63 PCB-77	5.59e5	0.79	NO	1.07	5.000	39.51	39.51	1.000	1.000	NO	1107		0.466	1107
64	64 PCB-104	4.22e5	1.63	NO	1.14	5.000	32.35	32.37	1.001	1.001	NO	1048		0.244	1048
65	65 PCB-96	4.19e5	1.60	NO	1.12	5.000	33.65	33.65	1.041	1.041	NO	1056		0.248	1056

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-3.qld

Last Altered: Wednesday, April 29, 2020 12:44:40 Pacific Daylight Time

Printed: Wednesday, April 29, 2020 12:45:14 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
66	66 PCB-103	3.35e5	1.63	NO	0.862	5.000	34.21	34.21	1.058	1.058	NO	1100		0.323	1100
67	67 PCB-100	3.37e5	1.62	NO	0.903	5.000	34.58	34.56	1.070	1.069	NO	1056		0.308	1056
68	68 PCB-94	2.64e5	1.63	NO	0.907	5.000	35.06	35.05	0.985	0.985	NO	1049		0.405	1049
69	69 PCB-95/98/102	1.03e6	1.62	NO	1.18	5.000	35.54	35.55	0.999	0.999	NO	3147		0.311	3147
70	70 PCB-93	2.65e5	1.63	NO	0.847	5.000	35.66	35.66	1.002	1.002	NO	1126		0.434	1126
71	71 PCB-88/91	5.93e5	1.63	NO	0.981	5.000	36.00	36.00	1.012	1.012	NO	2177		0.375	2177
72	72 PCB-121	4.80e5	1.63	NO	1.54	5.000	36.12	36.11	1.015	1.015	NO	1118		0.238	1118
73	73 PCB-84/92	5.76e5	1.61	NO	0.977	5.000	36.94	36.94	0.990	0.990	NO	2167		0.379	2167
74	74 PCB-89	3.15e5	1.61	NO	1.11	5.000	37.13	37.13	0.995	0.995	NO	1042		0.333	1042
75	75 PCB-90/101	6.33e5	1.63	NO	1.08	5.000	37.32	37.32	1.000	1.000	NO	2149		0.342	2149
76	76 PCB-113	4.58e5	1.61	NO	1.46	5.000	37.58	37.58	1.007	1.007	NO	1157		0.254	1157
77	77 PCB-99	3.43e5	1.64	NO	1.24	5.000	37.67	37.67	1.009	1.009	NO	1016		0.298	1016
78	78 PCB-119	4.44e5	1.59	NO	1.66	5.000	38.15	38.14	0.987	0.987	NO	1098		0.253	1098
79	79 PCB-108/112	7.49e5	1.63	NO	1.39	5.000	38.28	38.30	0.991	0.991	NO	2212		0.302	2212
80	80 PCB-83	4.59e5	1.60	NO	1.67	5.000	38.47	38.47	0.996	0.996	NO	1132		0.253	1132
81	81 PCB-97	3.22e5	1.62	NO	1.25	5.000	38.66	38.67	1.000	1.001	NO	1054		0.335	1054
82	82 PCB-86	2.97e5	1.61	NO	1.09	5.000	38.82	38.82	1.005	1.005	NO	1115		0.385	1115
83	83 PCB-87/117/125	1.20e6	1.60	NO	1.53	5.000	38.93	38.95	1.008	1.008	NO	3227		0.275	3227
84	84 PCB-111/115	9.78e5	1.61	NO	1.81	5.000	39.10	39.10	1.012	1.012	NO	2219		0.232	2219
85	85 PCB-85/116	7.10e5	1.62	NO	1.32	5.000	39.21	39.23	1.015	1.015	NO	2210		0.318	2210
86	86 PCB-120	5.13e5	1.62	NO	1.90	5.000	39.49	39.49	1.022	1.022	NO	1111		0.222	1111
87	87 PCB-110	4.49e5	1.64	NO	1.65	5.000	39.64	39.62	1.026	1.026	NO	1119		0.255	1119
88	88 PCB-82	2.66e5	1.66	NO	0.779	5.000	40.28	40.28	0.976	0.976	NO	978.3		0.369	978.3
89	89 PCB-124	4.80e5	1.60	NO	1.32	5.000	40.98	40.98	0.993	0.993	NO	1041		0.218	1041
90	90 PCB-107/109	9.54e5	1.60	NO	1.30	5.000	41.13	41.13	0.996	0.996	NO	2107		0.222	2107
91	91 PCB-123	4.33e5	1.63	NO	1.19	5.000	41.30	41.30	1.000	1.000	NO	1046		0.242	1046
92	92 PCB-106/118	9.28e5	1.61	NO	1.22	5.000	41.50	41.50	1.001	1.001	NO	2113		0.230	2113
93	93 PCB-114	4.09e5	1.53	NO	0.886	5.000	42.16	42.16	1.000	1.000	NO	1159		0.647	1159
94	94 PCB-122	3.63e5	1.55	NO	0.741	5.000	42.29	42.29	1.004	1.004	NO	1229		0.774	1229
95	95 PCB-105	4.10e5	1.52	NO	0.850	5.000	43.05	43.03	1.001	1.000	NO	1141		0.618	1141
96	96 PCB-127	4.60e5	1.51	NO	0.858	5.000	43.39	43.39	1.000	1.000	NO	1159		0.556	1159
97	97 PCB-126	4.37e5	1.52	NO	0.962	5.000	45.31	45.32	1.000	1.000	NO	1126		0.593	1126
98	98 PCB-155	2.79e5	1.31	NO	1.01	5.000	36.87	36.87	1.001	1.001	NO	996.1		0.213	996.1
99	99 PCB-150	2.98e5	1.29	NO	1.05	5.000	38.13	38.15	1.035	1.036	NO	1034		0.207	1034

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
100	1... PCB-152	3.35e5	1.32	NO	1.20	5.000	38.62	38.64	1.049	1.049	NO	1013		0.180	1013
101	1... PCB-145	3.30e5	1.31	NO	1.17	5.000	39.08	39.10	1.061	1.062	NO	1022		0.185	1022
102	1... PCB-136	2.98e5	1.30	NO	1.01	5.000	39.40	39.42	1.070	1.070	NO	1072		0.215	1072
103	1... PCB-148	2.19e5	1.32	NO	0.770	5.000	39.53	39.55	1.073	1.074	NO	1033		0.281	1033
104	1... PCB-154	2.54e5	1.33	NO	0.862	5.000	40.03	40.05	1.087	1.087	NO	1068		0.251	1068
105	1... PCB-151	2.21e5	1.32	NO	0.723	5.000	40.68	40.70	1.105	1.105	NO	1110		0.299	1110
106	1... PCB-135	2.50e5	1.29	NO	0.836	5.000	40.91	40.93	1.111	1.111	NO	1085		0.259	1085
107	1... PCB-144	2.22e5	1.31	NO	0.756	5.000	41.02	41.04	1.114	1.114	NO	1066		0.286	1066
108	1... PCB-147	2.39e5	1.29	NO	0.789	5.000	41.15	41.17	1.117	1.118	NO	1100		0.274	1100
109	1... PCB-139/149	5.38e5	1.31	NO	0.896	5.000	41.43	41.45	1.125	1.125	NO	2180		0.241	2180
110	1... PCB-140	2.28e5	1.33	NO	0.769	5.000	41.61	41.63	1.130	1.130	NO	1076		0.281	1076
111	1... PCB-134/143	6.26e5	1.27	NO	0.653	5.000	42.08	42.08	0.975	0.975	NO	2368		1.32	2368
112	1... PCB-131/133	6.60e5	1.25	NO	0.677	5.000	42.39	42.39	0.982	0.982	NO	2409		1.27	2409
113	1... PCB-142	3.04e5	1.27	NO	0.614	5.000	42.54	42.54	0.985	0.985	NO	1221		1.40	1221
114	1... PCB-146/165	8.25e5	1.25	NO	0.836	5.000	42.79	42.78	0.991	0.991	NO	2436		1.03	2436
115	1... PCB-132/161	8.37e5	1.26	NO	0.908	5.000	43.03	43.03	0.997	0.997	NO	2277		0.947	2277
116	1... PCB-153	4.53e5	1.28	NO	1.00	5.000	43.22	43.20	1.001	1.000	NO	1118		0.858	1118
117	1... PCB-168	4.64e5	1.26	NO	1.00	5.000	43.43	43.43	1.006	1.006	NO	1142		0.857	1142
118	1... PCB-141	3.55e5	1.27	NO	0.970	5.000	43.96	43.96	1.000	1.000	NO	1101		1.08	1101
119	1... PCB-137	3.87e5	1.24	NO	0.913	5.000	44.36	44.36	1.010	1.009	NO	1277		1.15	1277
120	1... PCB-130	2.96e5	1.27	NO	0.803	5.000	44.45	44.45	1.012	1.012	NO	1112		1.31	1112
121	1... PCB-138/163/164	1.40e6	1.25	NO	1.21	5.000	44.83	44.85	1.001	1.001	NO	3359		0.869	3359
122	1... PCB-158/160	9.04e5	1.26	NO	1.10	5.000	45.08	45.10	1.007	1.007	NO	2375		0.953	2375
123	1... PCB-129	3.03e5	1.27	NO	0.779	5.000	45.34	45.34	1.012	1.012	NO	1127		1.35	1127
124	1... PCB-166	4.98e5	1.26	NO	1.01	5.000	45.80	45.80	0.993	0.993	NO	1169		0.854	1169
125	1... PCB-159	5.25e5	1.27	NO	1.11	5.000	46.14	46.14	1.000	1.000	NO	1121		0.777	1121
126	1... PCB-128/162	7.99e5	1.26	NO	0.859	5.000	46.44	46.44	1.007	1.007	NO	2199		1.00	2199
127	1... PCB-167	4.82e5	1.27	NO	1.04	5.000	46.84	46.84	1.000	1.000	NO	1101		0.818	1101
128	1... PCB-156	4.94e5	1.26	NO	1.08	5.000	48.17	48.17	1.000	1.000	NO	1098		0.799	1098
129	1... PCB-157	4.54e5	1.27	NO	0.977	5.000	48.43	48.43	1.000	1.000	NO	1111		0.898	1111
130	1... PCB-169	4.92e5	1.25	NO	1.11	5.000	50.70	50.70	1.000	1.000	NO	1103		0.824	1103
131	1... PCB-188	4.46e5	1.06	NO	1.27	5.000	42.84	42.82	1.001	1.000	NO	1097		0.875	1097
132	1... PCB-184	4.58e5	1.05	NO	1.33	5.000	43.28	43.28	1.011	1.011	NO	1075		0.836	1075
133	1... PCB-179	4.66e5	1.05	NO	1.25	5.000	44.08	44.07	1.030	1.030	NO	1161		0.886	1161

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
134	1... PCB-176	4.71e5	1.05	NO	1.22	5.000	44.55	44.55	1.041	1.041	NO	1198		0.905	1198
135	1... PCB-186	4.96e5	1.06	NO	1.31	5.000	45.18	45.17	1.055	1.055	NO	1182		0.848	1182
136	1... PCB-178	3.33e5	1.05	NO	0.889	5.000	45.68	45.68	1.067	1.067	NO	1167		1.25	1167
137	1... PCB-175	3.41e5	1.03	NO	0.886	5.000	46.04	46.04	1.076	1.076	NO	1198		1.25	1198
138	1... PCB-182/187	7.84e5	1.06	NO	1.04	5.000	46.23	46.23	1.080	1.080	NO	2343		1.06	2343
139	1... PCB-183	3.79e5	1.04	NO	0.972	5.000	46.57	46.56	1.088	1.088	NO	1215		1.14	1215
140	1... PCB-185	3.44e5	1.06	NO	1.35	5.000	47.24	47.22	0.955	0.954	NO	1071		1.13	1071
141	1... PCB-174	3.12e5	1.05	NO	1.28	5.000	47.62	47.60	0.963	0.962	NO	1021		1.18	1021
142	1... PCB-181	3.94e5	1.06	NO	1.48	5.000	47.71	47.69	0.964	0.964	NO	1118		1.03	1118
143	1... PCB-177	3.17e5	1.06	NO	1.24	5.000	47.88	47.86	0.968	0.967	NO	1072		1.22	1072
144	1... PCB-171	3.24e5	1.06	NO	1.33	5.000	48.19	48.17	0.974	0.974	NO	1025		1.14	1025
145	1... PCB-173	2.98e5	1.06	NO	1.16	5.000	48.62	48.60	0.983	0.982	NO	1081		1.31	1081
146	1... PCB-172	3.46e5	1.04	NO	1.34	5.000	49.08	49.08	0.992	0.992	NO	1081		1.13	1081
147	1... PCB-192	4.59e5	1.05	NO	1.67	5.000	49.27	49.26	0.996	0.996	NO	1157		0.912	1157
148	1... PCB-180	3.57e5	1.04	NO	1.38	5.000	49.49	49.49	1.000	1.000	NO	1086		1.10	1086
149	1... PCB-193	4.18e5	1.06	NO	1.56	5.000	49.70	49.70	1.005	1.005	NO	1126		0.976	1126
150	1... PCB-191	4.27e5	1.06	NO	1.60	5.000	49.97	49.97	1.010	1.010	NO	1119		0.948	1119
151	1... PCB-170	3.11e5	1.05	NO	1.41	5.000	51.14	51.14	1.000	1.000	NO	1054		1.20	1054
152	1... PCB-190	4.17e5	1.04	NO	1.79	5.000	51.35	51.35	1.005	1.004	NO	1113		0.944	1113
153	1... PCB-189	4.45e5	1.05	NO	1.47	5.000	52.92	52.92	1.000	1.000	NO	1053		0.753	1053
154	1... PCB-202	3.69e5	0.91	NO	1.09	5.000	48.37	48.37	1.000	1.000	NO	1076		0.254	1076
155	1... PCB-201	3.40e5	0.91	NO	0.947	5.000	48.88	48.89	1.011	1.011	NO	1144		0.292	1144
156	1... PCB-204	3.61e5	0.93	NO	1.03	5.000	49.03	49.04	1.014	1.014	NO	1114		0.268	1114
157	1... PCB-197	3.63e5	0.91	NO	1.02	5.000	49.35	49.34	1.020	1.020	NO	1129		0.270	1129
158	1... PCB-200	3.53e5	0.90	NO	0.976	5.000	50.27	50.27	1.040	1.040	NO	1151		0.283	1151
159	1... PCB-198	2.76e5	0.91	NO	0.752	5.000	51.85	51.86	1.072	1.072	NO	1169		0.367	1169
160	1... PCB-199	2.62e5	0.90	NO	0.732	5.000	52.00	51.99	1.075	1.075	NO	1138		0.378	1138
161	1... PCB-196/203	5.83e5	0.90	NO	0.824	5.000	52.30	52.31	1.082	1.082	NO	2249		0.335	2249
162	1... PCB-195	2.63e5	0.87	NO	0.765	5.000	53.63	53.63	0.983	0.983	NO	1226		0.925	1226
163	1... PCB-194	2.95e5	0.87	NO	0.967	5.000	54.58	54.58	1.000	1.000	NO	1090		0.731	1090
164	1... PCB-205	3.64e5	0.88	NO	1.11	5.000	54.86	54.86	1.005	1.005	NO	1169		0.637	1169
165	1... PCB-208	3.79e5	1.34	NO	0.901	5.000	53.79	53.79	1.000	1.000	NO	1113		0.632	1113
166	1... PCB-207	3.75e5	1.35	NO	0.841	5.000	54.13	54.14	1.007	1.007	NO	1181		0.677	1181
167	1... PCB-206	2.72e5	1.35	NO	0.958	5.000	56.10	56.10	1.000	1.000	NO	1100		0.799	1100

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
168	1... PCB-209	2.81e5	1.18	NO	0.956	5.000	57.35	57.35	1.000	1.000	NO	1077		0.111	1077
169	1... 13C-PCB-1	1.28e6	3.34	NO	0.999	5.000	15.50	15.55	0.609	0.611	NO	1727	86.3	0.647	
170	1... 13C-PCB-3	1.25e6	3.27	NO	1.03	5.000	18.14	18.17	0.712	0.714	NO	1646	82.3	0.630	
171	1... 13C-PCB-4	7.89e5	1.58	NO	0.650	5.000	19.48	19.51	0.765	0.766	NO	1641	82.1	0.456	
172	1... 13C-PCB-9	1.25e6	1.57	NO	0.996	5.000	21.31	21.33	0.837	0.838	NO	1699	85.0	0.298	
173	1... 13C-PCB-11	1.19e6	1.54	NO	0.959	5.000	24.75	24.75	0.972	0.972	NO	1676	83.8	0.309	
174	1... 13C-PCB-19	6.59e5	1.08	NO	0.529	5.000	23.71	23.71	0.931	0.931	NO	1684	84.2	5.14	
175	1... 13C-PCB-32	9.91e5	1.09	NO	0.760	5.000	26.67	26.68	1.048	1.048	NO	1762	88.1	3.57	
176	1... 13C-PCB-28	1.18e6	1.03	NO	1.10	5.000	28.68	28.68	1.003	1.003	NO	1807	90.3	3.31	
177	1... 13C-PCB-37	1.07e6	1.03	NO	0.983	5.000	32.65	32.65	1.142	1.142	NO	1839	91.9	3.70	
178	1... 13C-PCB-54	8.86e5	0.79	NO	1.07	5.000	27.53	27.53	0.753	0.753	NO	1554	77.7	1.15	
179	1... 13C-PCB-52	7.63e5	0.80	NO	0.854	5.000	31.17	31.16	0.853	0.853	NO	1677	83.8	1.44	
180	1... 13C-PCB-47	8.15e5	0.80	NO	0.905	5.000	31.69	31.68	0.867	0.867	NO	1689	84.5	1.36	
181	1... 13C-PCB-70	9.57e5	0.80	NO	1.01	5.000	35.29	35.27	0.966	0.965	NO	1783	89.2	1.22	
182	1... 13C-PCB-80	9.72e5	0.80	NO	1.04	5.000	35.72	35.72	0.978	0.978	NO	1746	87.3	1.18	
183	1... 13C-PCB-81	9.53e5	0.79	NO	0.974	5.000	38.90	38.88	1.065	1.064	NO	1837	91.8	1.26	
184	1... 13C-PCB-77	9.47e5	0.80	NO	0.951	5.000	39.49	39.49	1.081	1.081	NO	1869	93.4	1.30	
185	1... 13C-PCB-104	7.06e5	1.61	NO	1.08	5.000	32.33	32.33	0.827	0.827	NO	1665	83.2	0.470	
186	1... 13C-PCB-95	5.56e5	1.65	NO	0.847	5.000	35.60	35.59	0.910	0.910	NO	1676	83.8	0.601	
187	1... 13C-PCB-101	5.44e5	1.64	NO	0.827	5.000	37.32	37.32	0.955	0.954	NO	1682	84.1	0.616	
188	1... 13C-PCB-97	4.86e5	1.63	NO	0.707	5.000	38.64	38.64	0.988	0.988	NO	1758	87.9	0.720	
189	1... 13C-PCB-123	6.99e5	1.62	NO	0.914	5.000	41.28	41.28	1.056	1.056	NO	1954	97.7	0.557	
190	1... 13C-PCB-118	7.22e5	1.64	NO	0.961	5.000	41.47	41.47	1.061	1.060	NO	1923	96.1	0.530	
191	1... 13C-PCB-114	7.98e5	1.60	NO	1.41	5.000	42.13	42.14	0.908	0.909	NO	1732	86.6	0.919	
192	1... 13C-PCB-105	8.45e5	1.57	NO	1.56	5.000	43.01	43.01	0.927	0.927	NO	1655	82.8	0.829	
193	1... 13C-PCB-127	9.26e5	1.61	NO	1.71	5.000	43.36	43.37	0.935	0.935	NO	1650	82.5	0.754	
194	1... 13C-PCB-126	8.07e5	1.55	NO	1.37	5.000	45.29	45.31	0.976	0.977	NO	1801	90.1	0.944	
195	1... 13C-PCB-155	5.51e5	1.31	NO	0.634	5.000	36.85	36.83	0.942	0.942	NO	2222	111	0.413	
196	1... 13C-PCB-153	8.10e5	1.26	NO	1.53	5.000	43.17	43.18	0.931	0.931	NO	1620	81.0	0.804	
197	1... 13C-PCB-141	6.64e5	1.27	NO	1.19	5.000	43.93	43.94	0.947	0.947	NO	1702	85.1	1.03	
198	1... 13C-PCB-138	6.90e5	1.28	NO	1.18	5.000	44.79	44.79	0.966	0.966	NO	1782	89.1	1.04	
199	1... 13C-PCB-159	8.46e5	1.27	NO	1.38	5.000	46.11	46.12	0.994	0.994	NO	1866	93.3	0.887	
200	2... 13C-PCB-167	8.40e5	1.26	NO	1.38	5.000	46.81	46.82	1.009	1.009	NO	1854	92.7	0.888	
201	2... 13C-PCB-156	8.30e5	1.29	NO	1.33	5.000	48.16	48.15	1.038	1.038	NO	1909	95.4	0.924	



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Printed: Wednesday, April 29, 2020 12:45:14 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
202	2... 13C-PCB-157	8.36e5	1.29	NO	1.36	5.000	48.42	48.41	1.044	1.044	NO	1873	93.6	0.900	
203	2... 13C-PCB-169	8.06e5	1.29	NO	1.27	5.000	50.68	50.69	1.092	1.093	NO	1941	97.0	0.968	
204	2... 13C-PCB-188	6.42e5	0.44	NO	1.41	5.000	42.79	42.80	0.926	0.926	NO	1701	85.0	0.752	
205	2... 13C-PCB-180	4.76e5	0.44	NO	0.897	5.000	49.45	49.47	1.070	1.070	NO	1979	99.0	1.18	
206	2... 13C-PCB-170	4.18e5	0.45	NO	0.769	5.000	51.13	51.12	1.106	1.106	NO	2027	101	1.38	
207	2... 13C-PCB-189	5.77e5	0.45	NO	1.05	5.000	52.91	52.90	1.145	1.145	NO	2047	102	1.01	
208	2... 13C-PCB-202	6.29e5	0.93	NO	1.05	5.000	48.35	48.35	1.046	1.046	NO	2244	112	0.807	
209	2... 13C-PCB-194	5.60e5	0.89	NO	0.753	5.000	54.58	54.57	0.995	0.995	NO	1767	88.4	1.14	
210	2... 13C-PCB-208	7.55e5	0.78	NO	0.988	5.000	53.79	53.78	0.981	0.981	NO	1815	90.7	0.895	
211	2... 13C-PCB-206	5.16e5	0.78	NO	0.672	5.000	56.09	56.09	1.023	1.023	NO	1822	91.1	1.32	
212	2... 13C-PCB-209	5.46e5	1.21	NO	0.609	5.000	57.33	57.33	1.045	1.045	NO	2126	106	0.293	
213	2... 13C-PCB-15	1.48e6	1.56	NO	1.00	5.000	25.47	25.47	1.000	0.000	NO	2000	100	0.296	
214	2... 13C-PCB-31	1.19e6	1.03	NO	1.00	5.000	28.59	28.59	1.000	0.000	NO	2000	100	3.63	
215	2... 13C-PCB-60	1.07e6	0.79	NO	1.00	5.000	36.54	36.53	1.000	0.000	NO	2000	100	1.23	
216	2... 13C-PCB-111	7.82e5	1.61	NO	1.00	5.000	39.10	39.10	1.000	0.000	NO	2000	100	0.509	
217	2... 13C-PCB-128	6.55e5	1.27	NO	1.00	5.000	46.38	46.38	1.000	0.000	NO	2000	100	1.23	
218	2... 13C-PCB-182	5.36e5	0.44	NO	1.00	5.000	46.21	46.22	0.000	0.000	NO	2000	100	1.06	
219	2... 13C-PCB-205	8.42e5	0.89	NO	1.00	5.000	54.84	54.84	1.000	0.000	NO	2000	100	0.855	
220	2... 13C-PCB-79	1.08e6	0.79	NO	1.08	5.000	37.62	37.63	1.030	1.030	NO	1877	93.9	1.14	
221	2... 13C-PCB-178	4.72e5	0.45	NO	0.731	5.000	45.67	45.67	0.988	0.988	NO	1972	98.6	1.22	
222	2... 13C-PCB-79	1.08e6	0.79	NO	1.11	5.000	37.62	37.63	0.967	0.968	NO	2044	102	1.26	
223	2... 13C-PCB-178	4.72e5	0.45	NO	1.05	5.000	45.69	45.67	0.924	0.923	NO	1898	94.9	1.16	

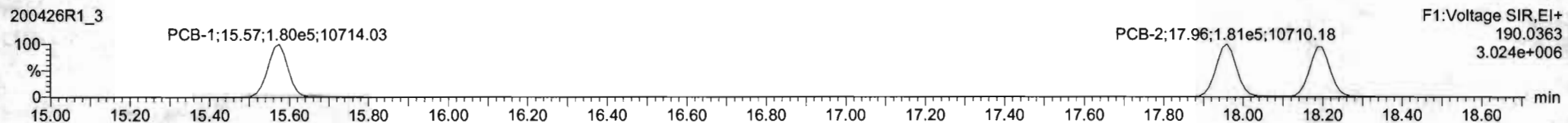
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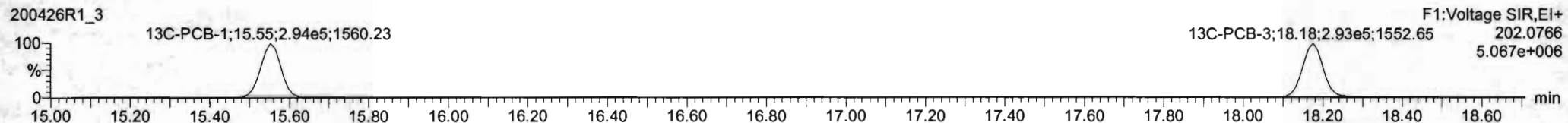
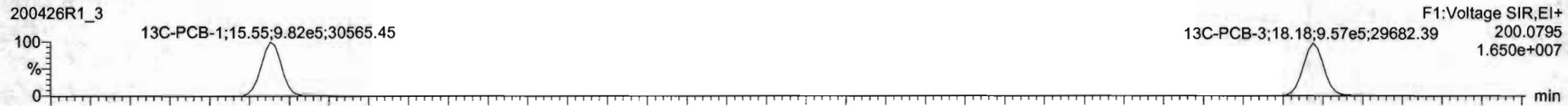
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Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

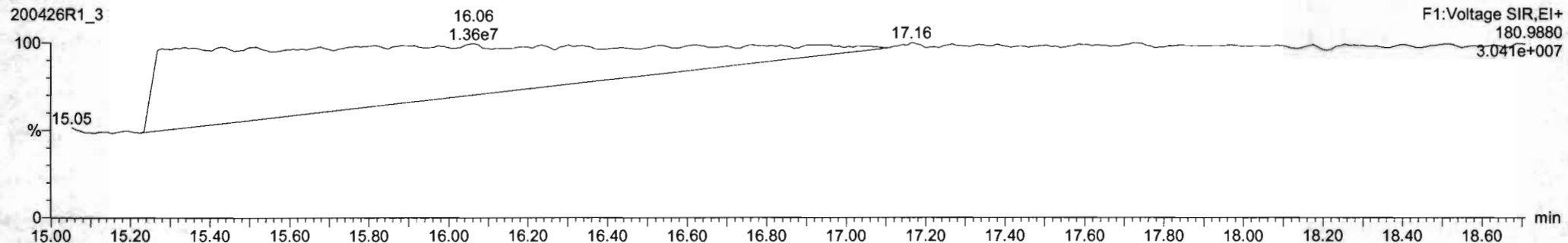
**PCB-1**



**13C-PCB-1**



**PFK1**

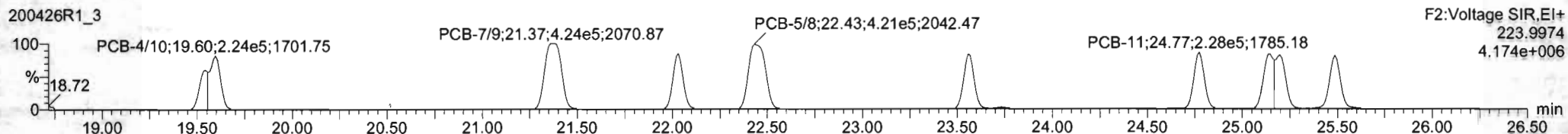
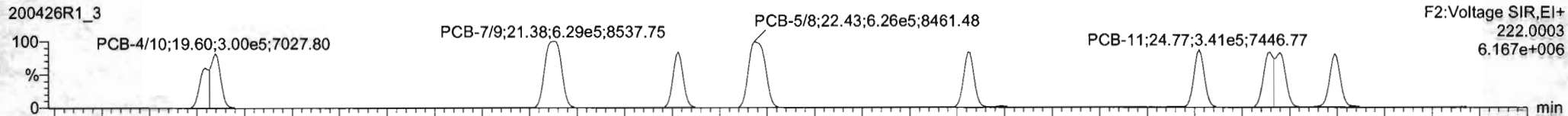


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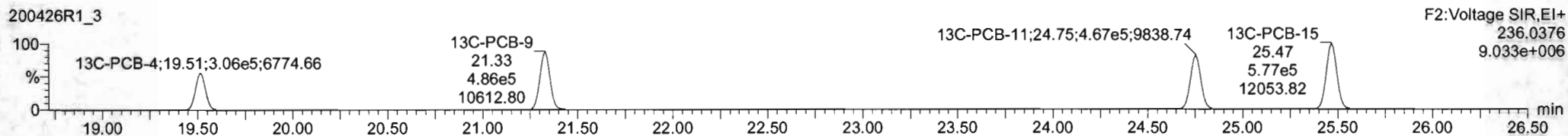
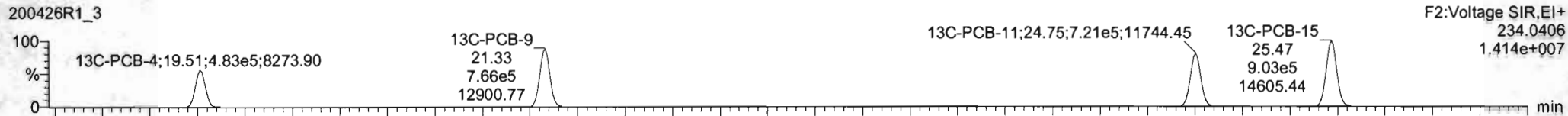
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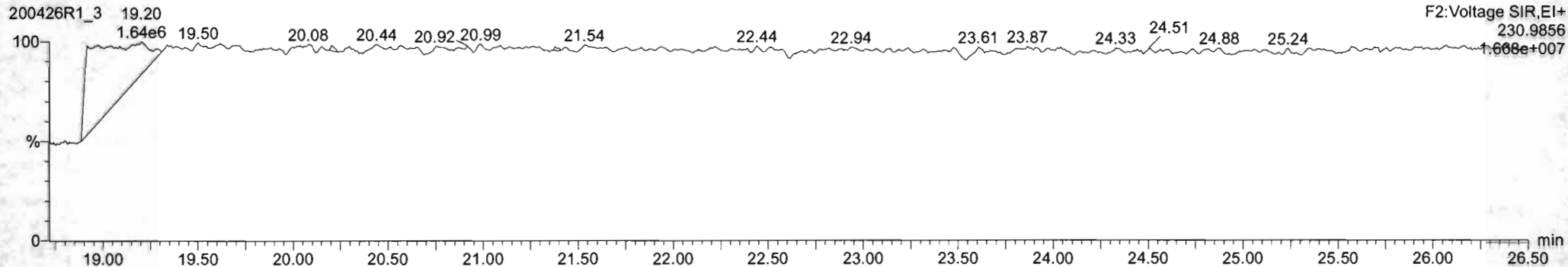
**PCB-4/10**



**13C-PCB-4**

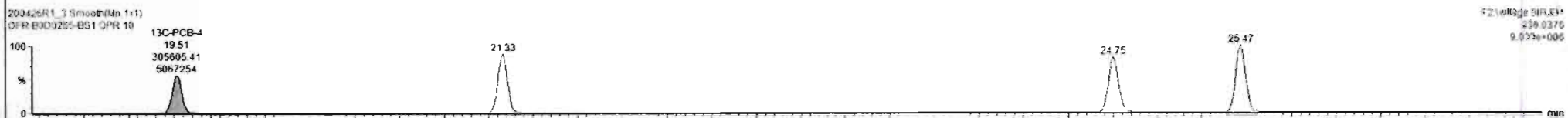
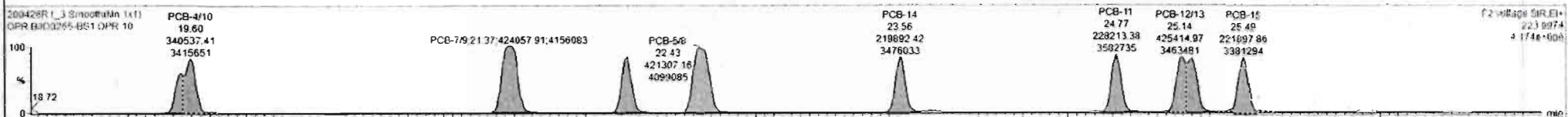


**PFK2a**



#	Name	Resp	RA	n/y	RRF	w/Vol	Pred RT	RT	Pred R	RRT	RRT Fall	Conc	%Rec	DL	EMPC
224	Total Mono PCBs				1.0627	5.000	0.00		0.000		NO	336.9		0.402	336.9
225	Total Di-PCBs				0.7708	5.000	0.00		0.000		NO	14210		6.18	14210

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.	
1	11 PCB-15	25.49	25.49	3.256e5	2.219e5		1.560	1.47	NO	1178.0	1178.0
2	10 PCB-12/13	25.14	25.15	6.277e5	4.254e5		1.560	1.48	NO	2416.8	2416.8
3	9 PCB-11	24.78	24.77	3.411e5	2.263e5		1.560	1.49	NO	1148.3	1148.3
4	8 PCB-14	23.56	23.56	3.285e5	2.169e5		1.560	1.49	NO	1225.5	1225.5
5	7 PCB-5/6	22.44	22.43	6.263e5	4.213e5		1.560	1.49	NO	2319.3	2319.3
6	6 PCB-6	22.03	22.03	3.284e5	2.177e5		1.560	1.47	NO	1179.1	1179.1
7	5 PCB-7/9	21.38	21.38	6.291e5	4.241e5		1.560	1.48	NO	2352.4	2352.4
8	4 PCB-4/10	19.60	19.60	5.057e5	3.405e5		1.560	1.48	NO	2392.2	2392.2



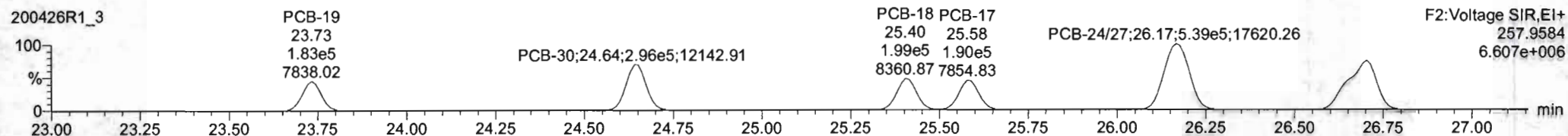
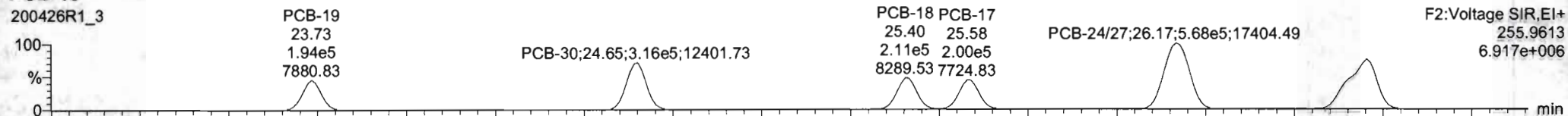
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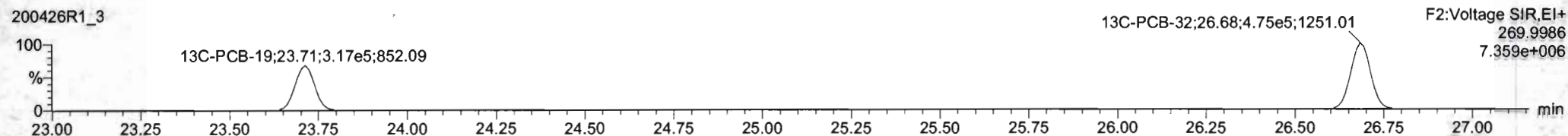
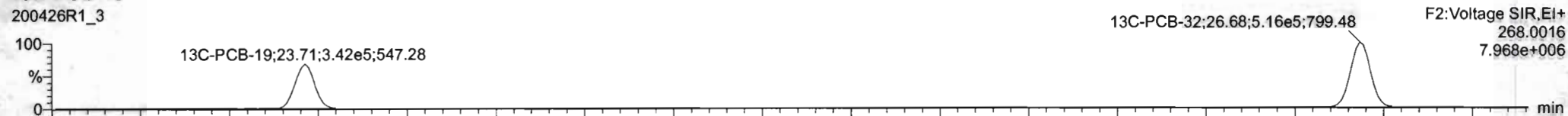
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Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

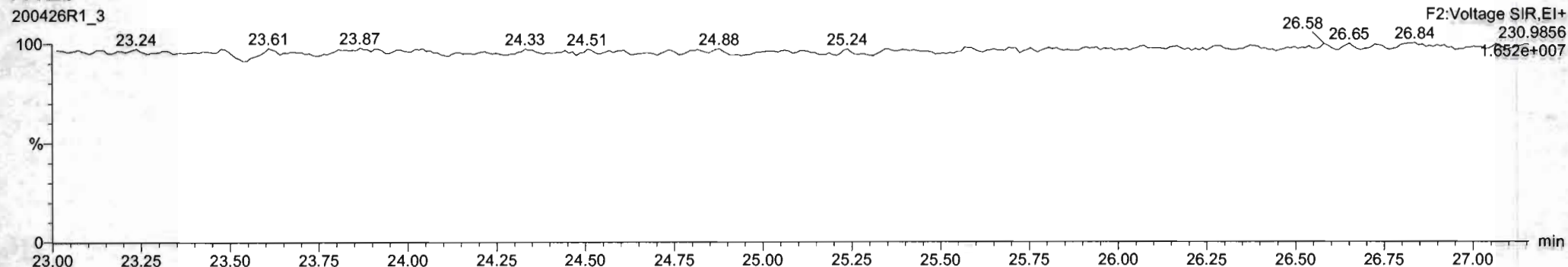
**PCB-19**



**13C-PCB-19**



**PFK2b**

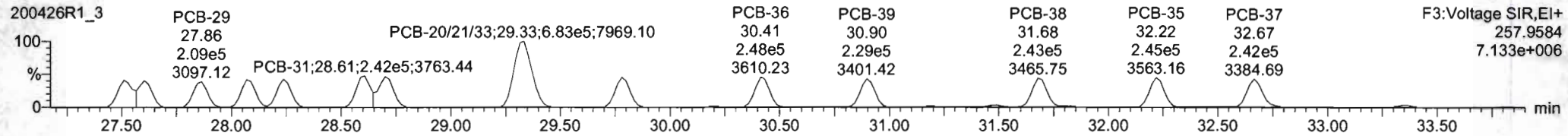
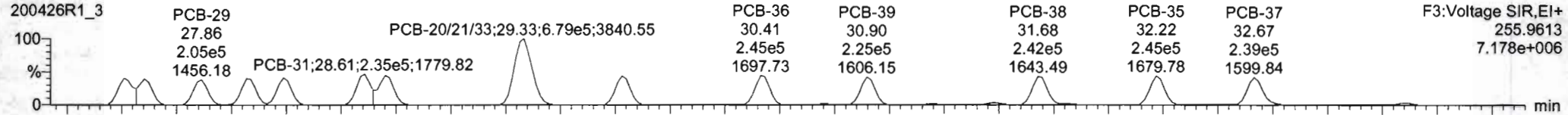


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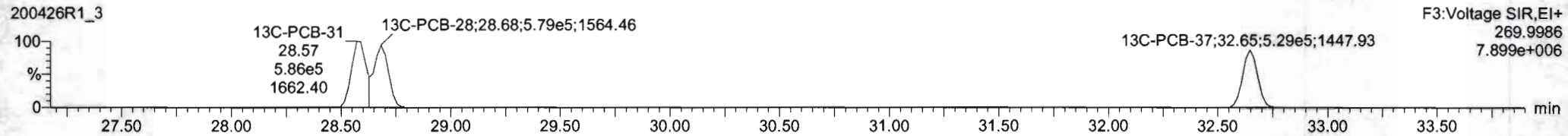
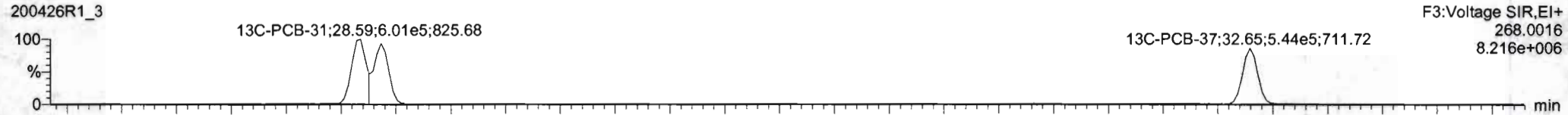
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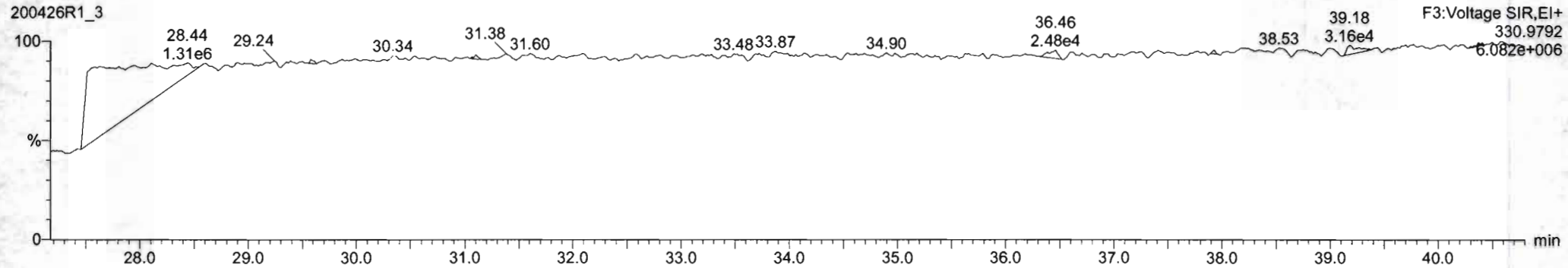
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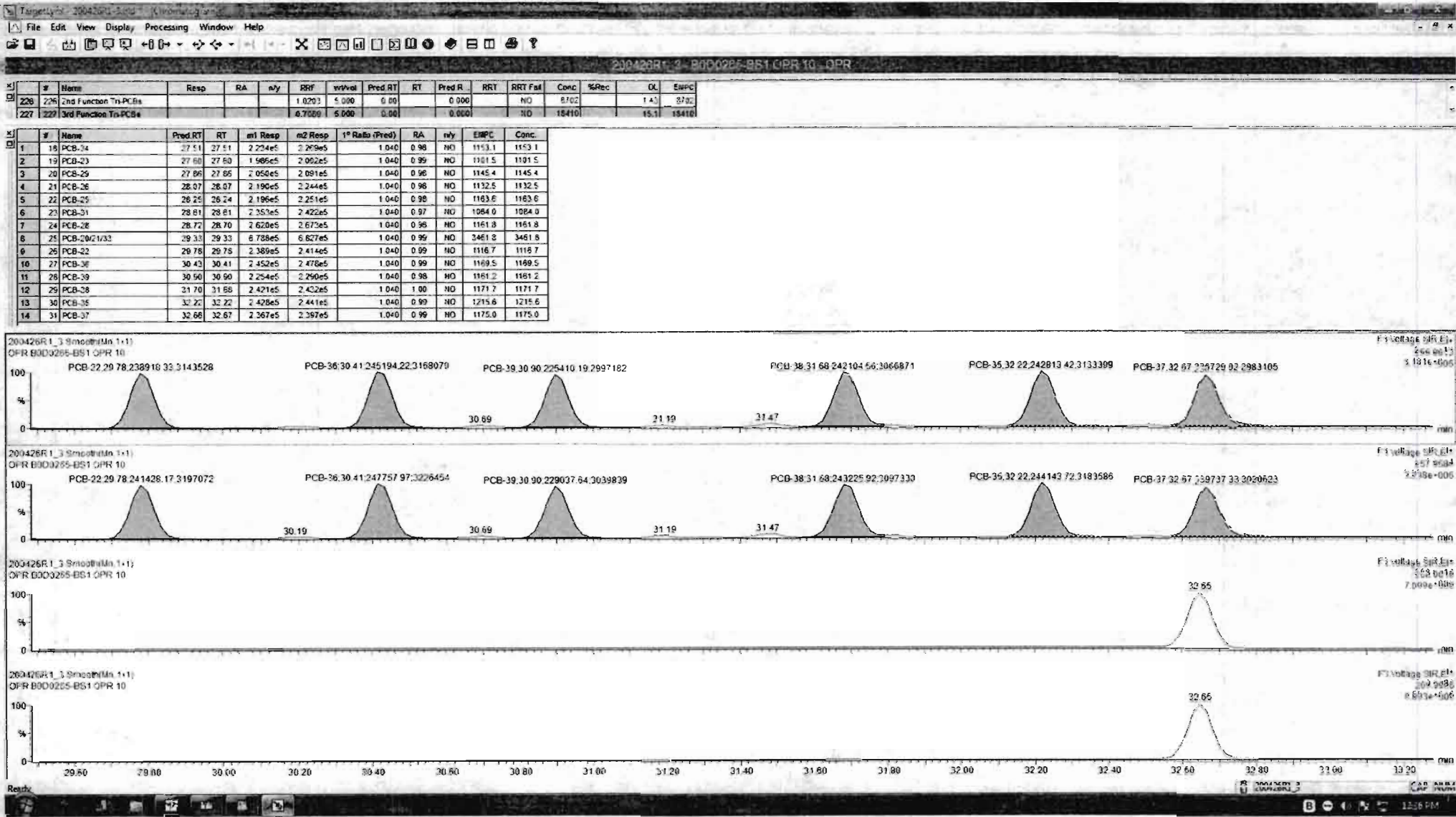


**13C-PCB-28**



**PFK3a**



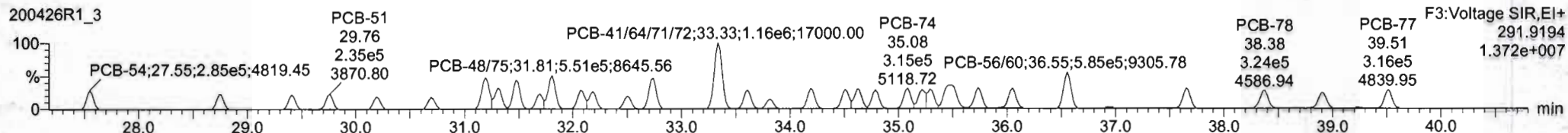
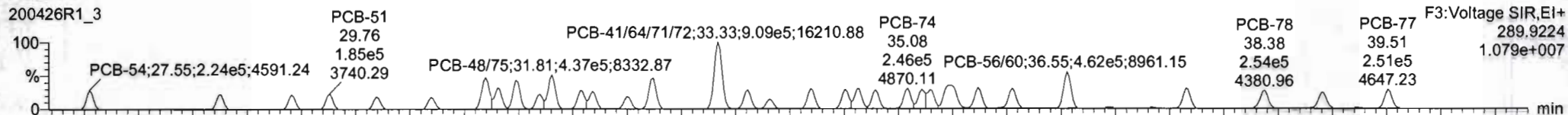


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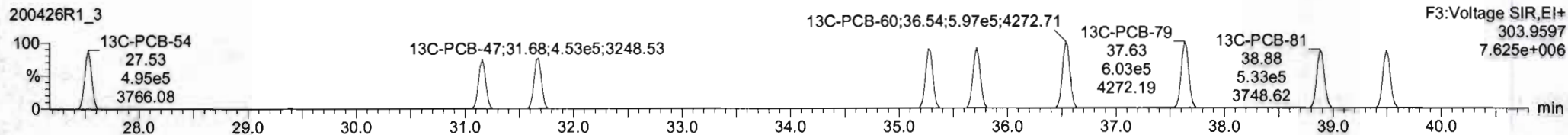
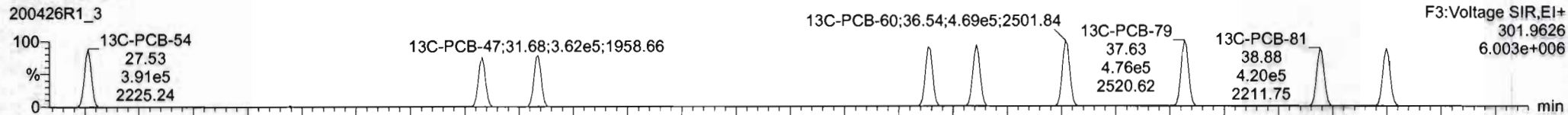
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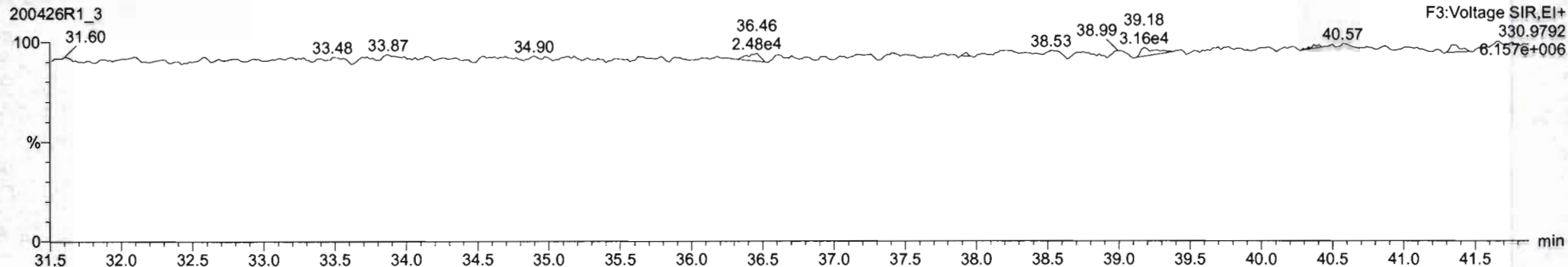
**PCB-54**



**13C-PCB-54**



**PFK3b**



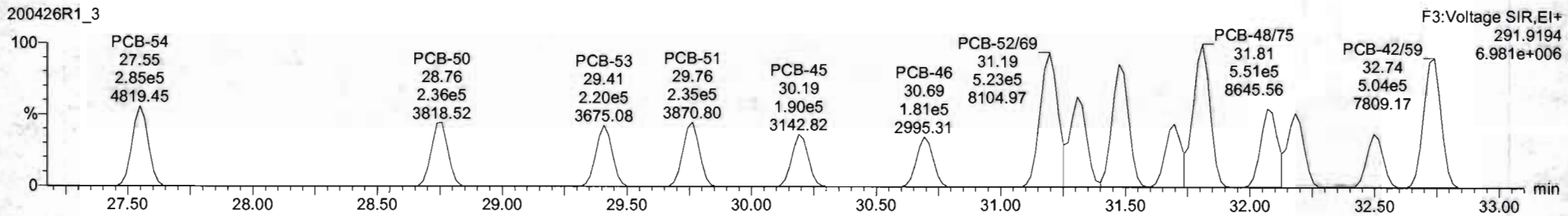
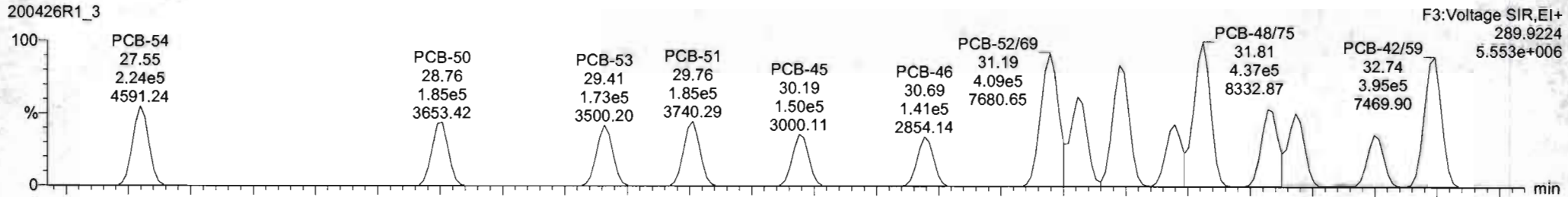


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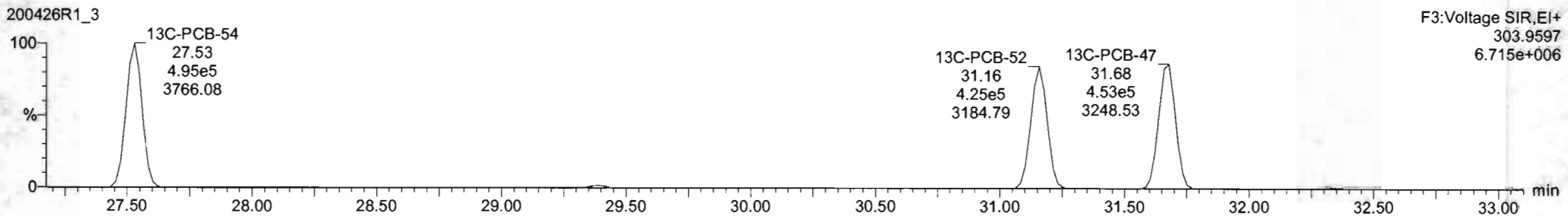
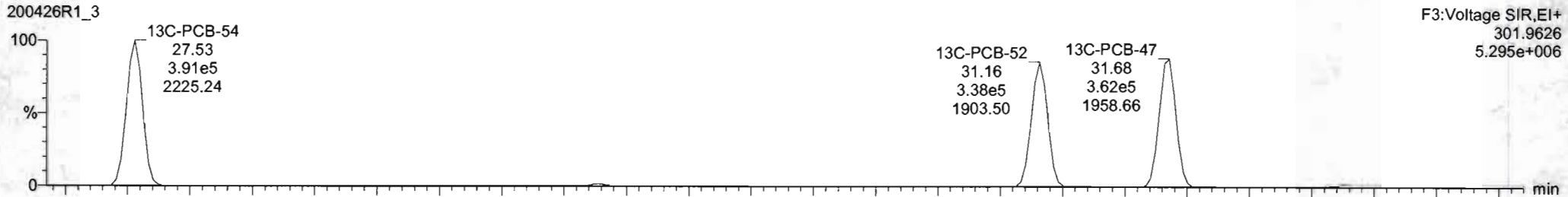
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**PCB-50**



**13C-PCB-52**



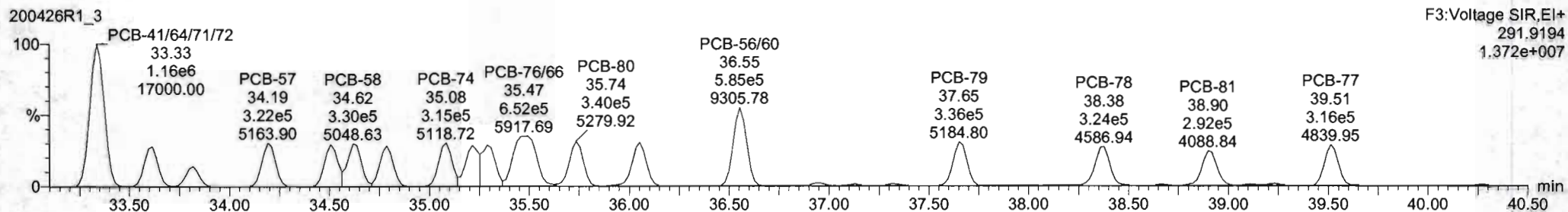
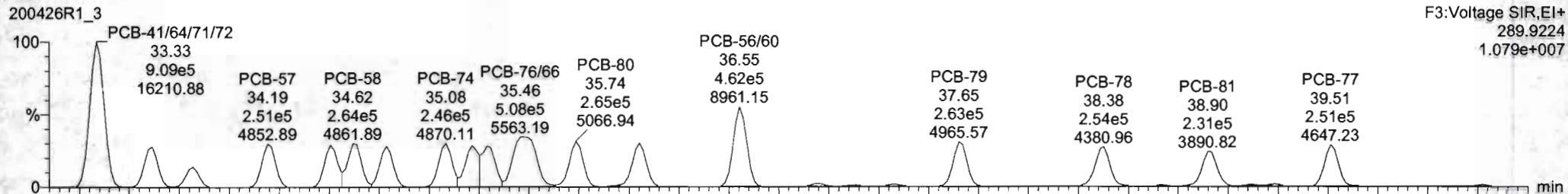
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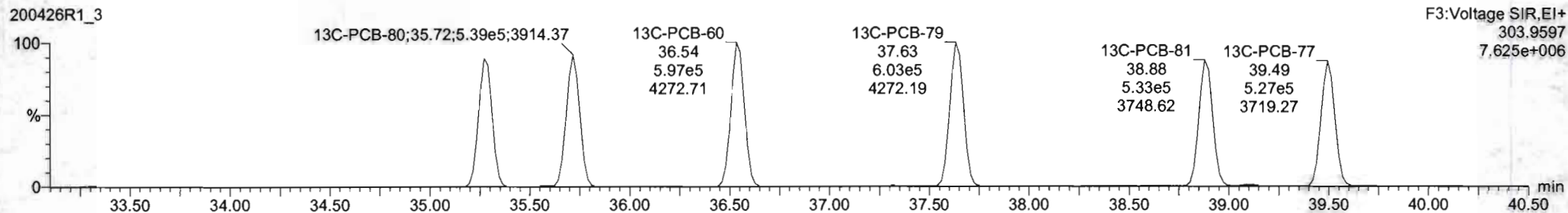
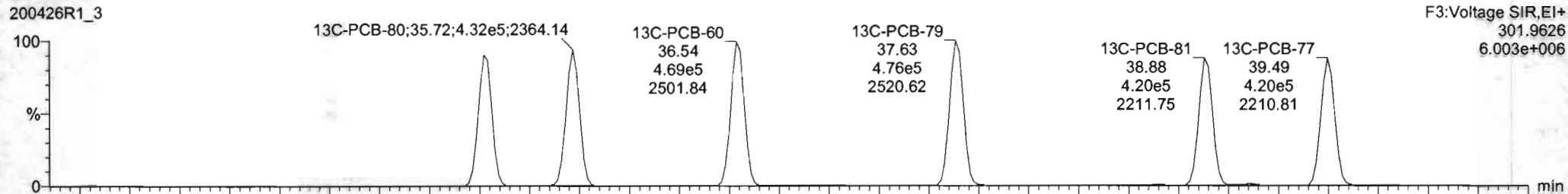
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PCB-68



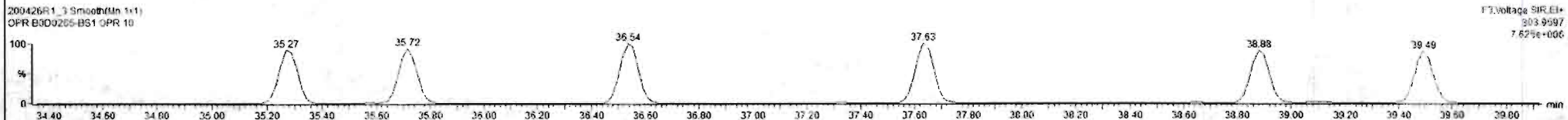
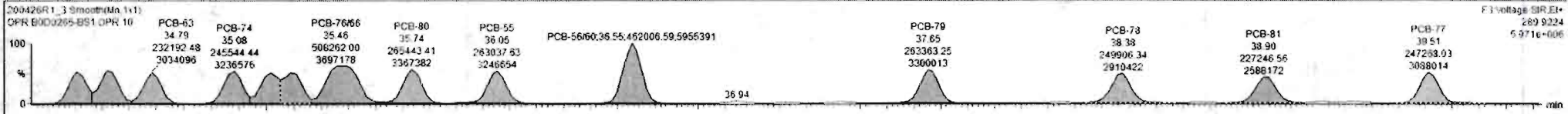
13C-PCB-60



200426R1\_3 - B0D0265-BS1 OPR 10 - DPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				0.5683	5.000	0.00		0.000		NO	48560	17.9	48560	
229	229 3rd Function Penta-PCBs				1.2555	5.000	0.00		0.000		NO	43120		8.00	44110

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	32 PCB-54	27.55	27.55	2.241e5	2.852e5	0.770	0.79	NO	1151.6	1151.6
2	33 PCB-50	28.76	28.76	1.853e5	2.365e5	0.770	0.78	NO	1208.4	1208.4
3	34 PCB-53	29.41	29.41	1.731e5	2.198e5	0.776	0.79	NO	1103.3	1103.3
4	35 PCB-51	29.76	29.76	1.853e5	2.345e5	0.770	0.79	NO	1076.0	1076.0
5	36 PCB-45	30.19	30.19	1.499e5	1.904e5	0.776	0.75	NO	1189.8	1189.8
6	37 PCB-46	30.89	30.89	1.413e5	1.810e5	0.770	0.78	NO	1143.3	1143.3
7	38 PCB-5265	31.19	31.19	4.085e5	5.234e5	0.770	0.78	NO	2244.0	2244.0
8	39 PCB-73	31.32	31.31	2.772e5	3.499e5	0.770	0.79	NO	1255.9	1256.0
9	40 PCB-3498	31.49	31.47	3.611e5	4.608e5	0.770	0.78	NO	2355.9	2355.9
10	41 PCB-47	31.70	31.70	1.675e5	2.168e5	0.770	0.77	NO	1122.0	1122.0
11	42 PCB-4675	31.81	31.81	4.373e5	5.514e5	0.770	0.79	NO	2396.1	2396.1
12	43 PCB-65	32.06	32.07	2.225e5	2.869e5	0.776	0.78	NO	1185.6	1185.6
13	44 PCB-63	32.18	32.18	2.215e5	2.823e5	0.770	0.78	NO	1206.8	1206.8
14	45 PCB-44	32.51	32.50	1.506e5	1.949e5	0.770	0.77	NO	1183.4	1183.4

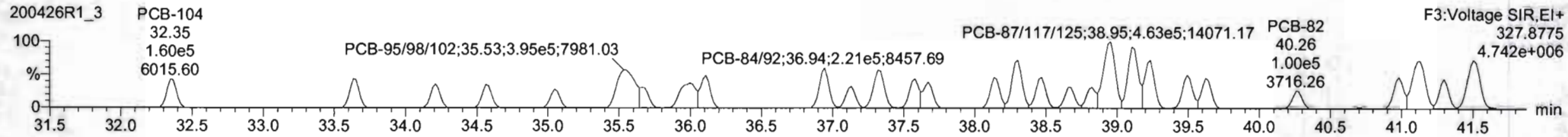
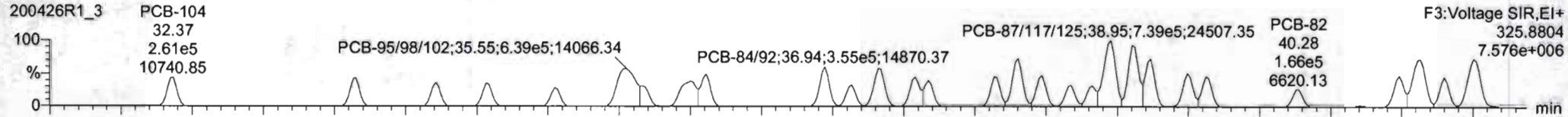


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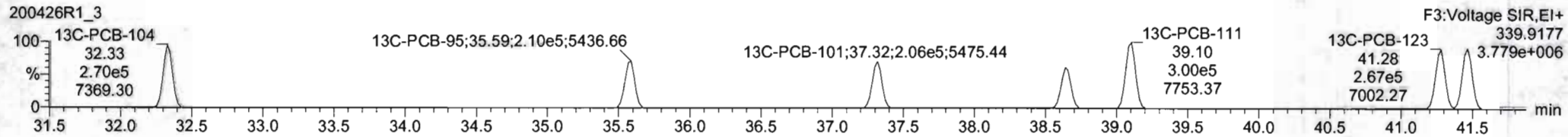
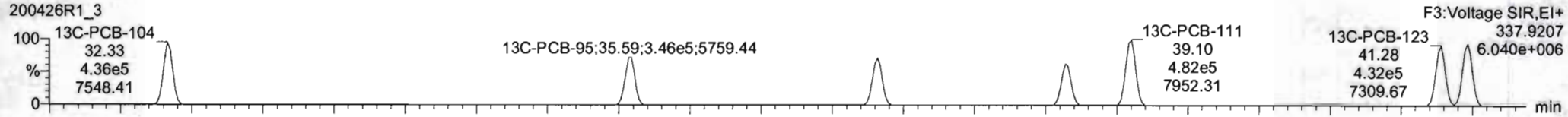
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Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

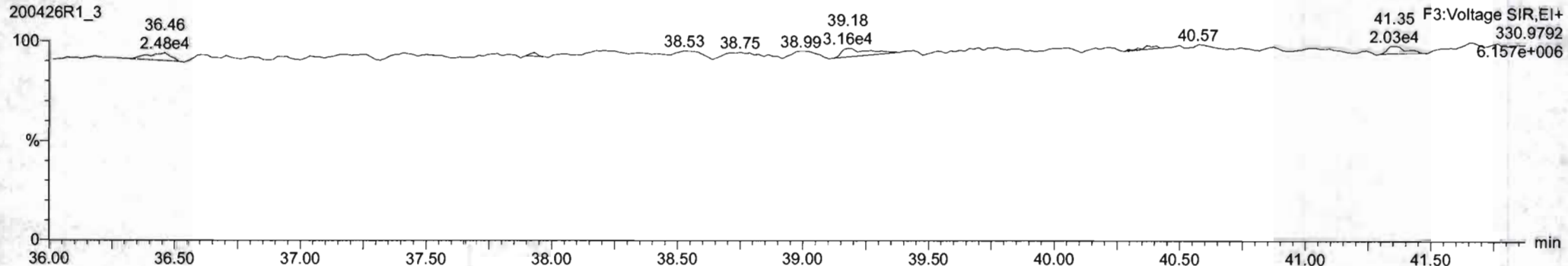
**PCB-104**



**13C-PCB-104**



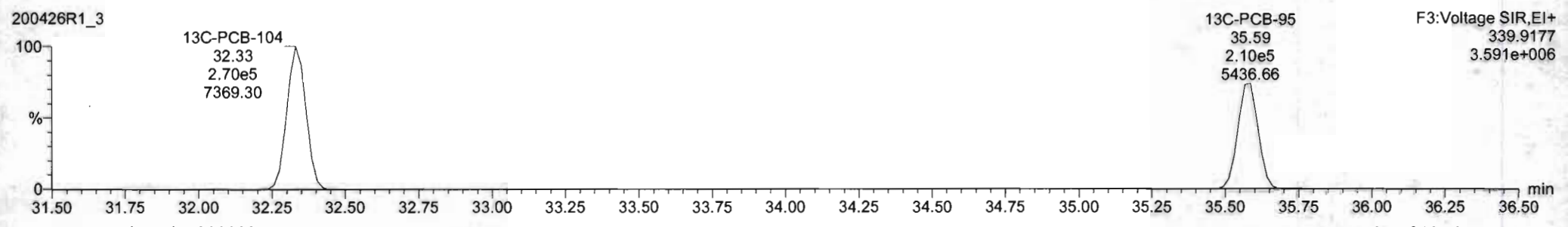
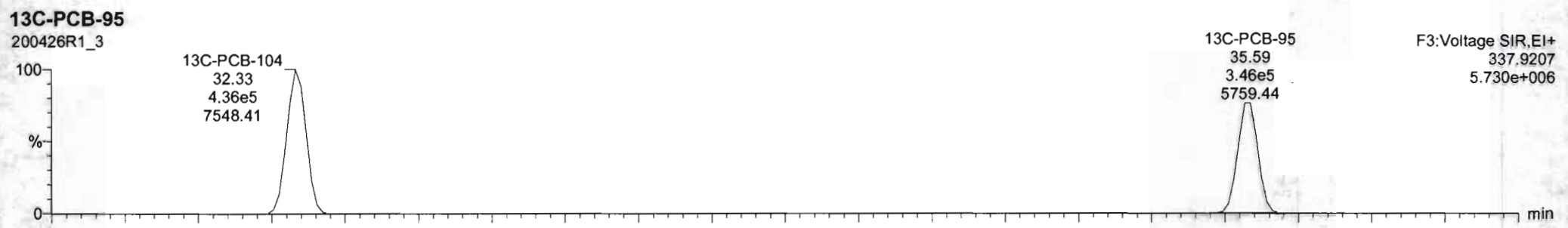
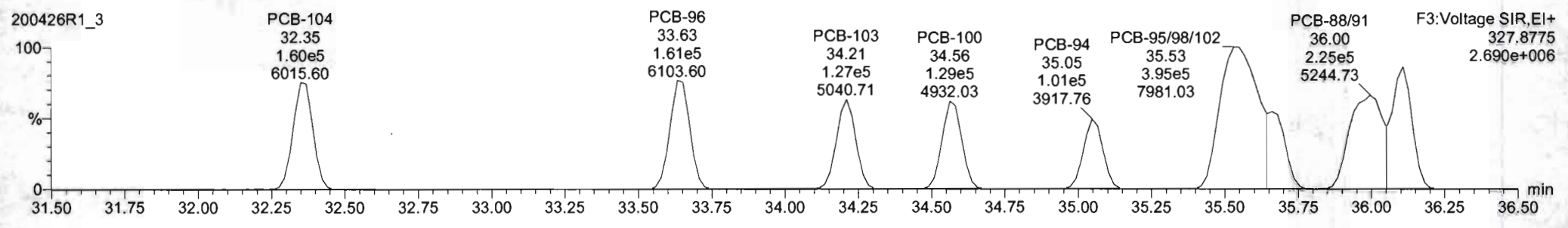
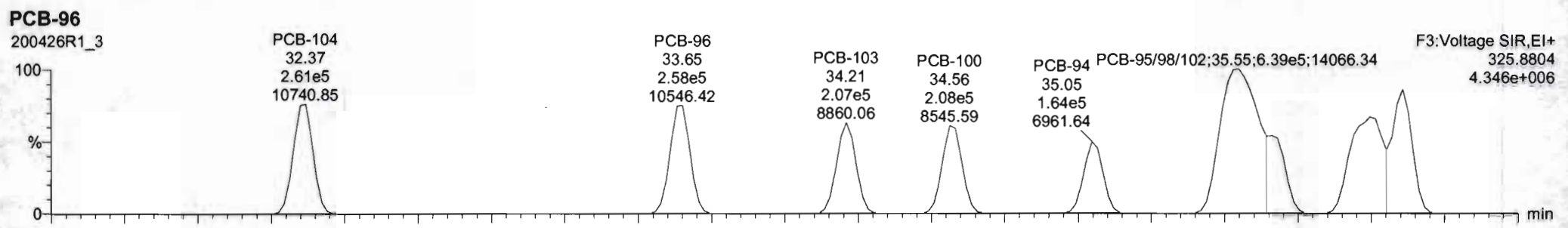
**PFK3c**



Dataset: Untitled

Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR



Dataset: Untitled

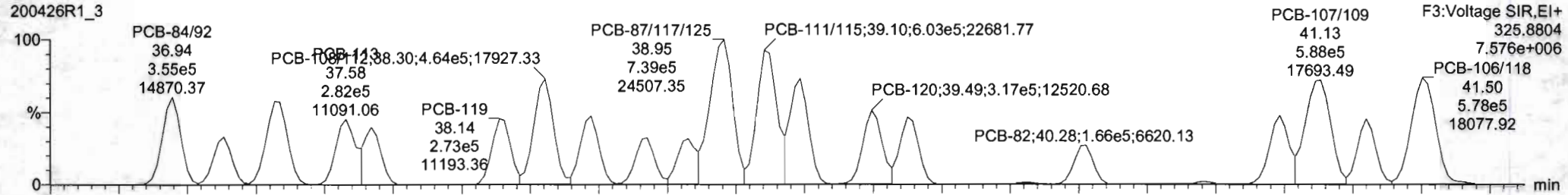
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

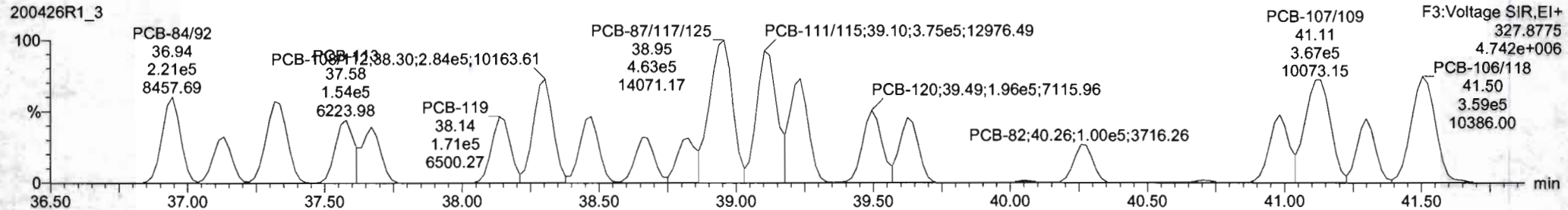
Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

PCB-119

200426R1\_3

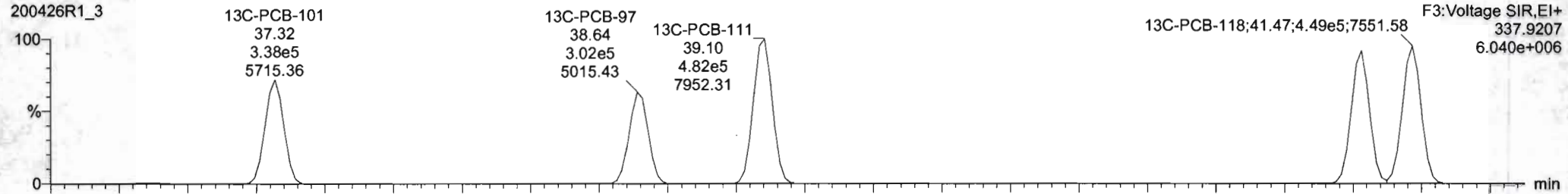


200426R1\_3

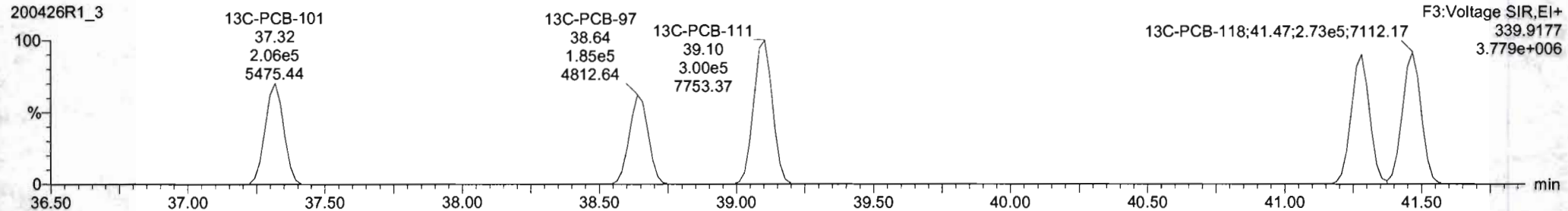


13C-PCB-111

200426R1\_3

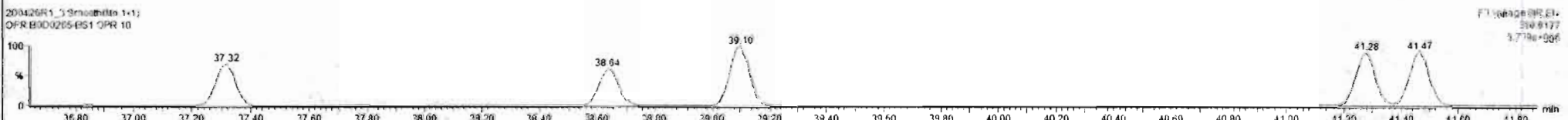
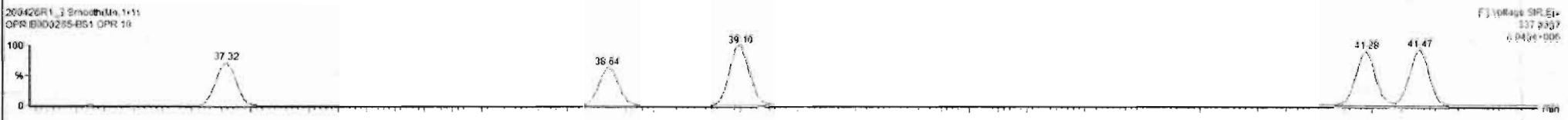
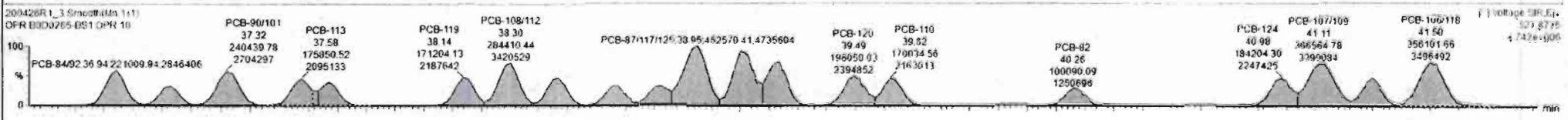
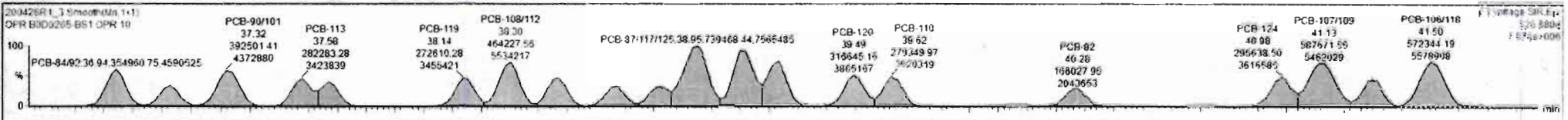


200426R1\_3



#	Name	Resp	RA	n/y	RRF	wtvol	Pred RT	RT	Pred R	RRT	RRT Fac	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				0.9589	5.000	0.00		0.000		NO	48560		17.3	49000
229	3rd Function Penta-PCBs				1.2565	5.000	0.00		0.000		NO	44190		8.60	44190

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.	
16	79 PCB-108/112	36.26	36.30	4.642e5	2.644e5		1.500	1.83	NO	2212.0	2212.0
17	80 PCB-83	36.47	36.47	2.320e5	1.767e5		1.560	1.60	NO	1131.7	1131.7
18	81 PCB-87	38.95	38.67	1.967e5	1.230e5		1.560	1.62	NO	1054.3	1054.3
19	82 PCB-86	38.82	38.82	1.828e5	1.138e5		1.560	1.81	NO	1115.1	1115.1
20	83 PCB-87/117/125	38.93	38.95	7.395e5	4.626e5		1.560	1.80	NO	3227.2	3227.2
21	84 PCB-111/115	39.10	39.10	6.029e5	3.751e5		1.560	1.61	NO	2218.6	2218.6
22	85 PCB-85/116	39.21	39.23	4.389e5	2.712e5		1.560	1.62	NO	2210.0	2210.0
23	86 PCB-120	39.49	39.49	3.166e5	1.961e5		1.580	1.62	NO	1111.0	1111.0
24	87 PCB-110	39.84	39.82	2.793e5	1.706e5		1.560	1.64	NO	1119.2	1119.2
25	88 PCB-82	40.28	40.28	1.660e5	1.001e5		1.580	1.66	NO	978.29	978.29
26	89 PCB-124	40.96	40.96	2.956e5	1.842e5		1.560	1.80	NO	1040.8	1040.8
27	90 PCB-107/109	41.13	41.13	5.877e5	3.666e5		1.560	1.60	NO	2107.4	2107.4
28	91 PCB-123	41.30	41.30	2.683e5	1.651e5		1.560	1.83	NO	1045.7	1045.7
29	92 PCB-106/118	41.50	41.50	5.723e5	3.561e5		1.560	1.61	NO	2113.4	2113.4

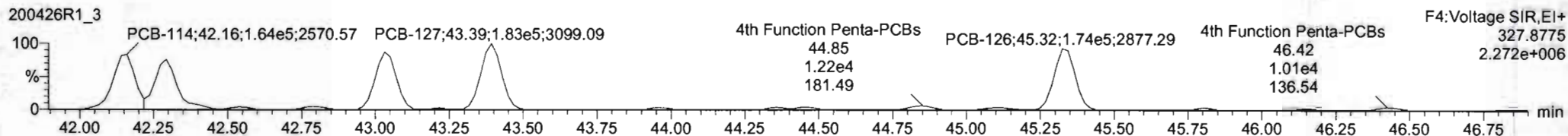
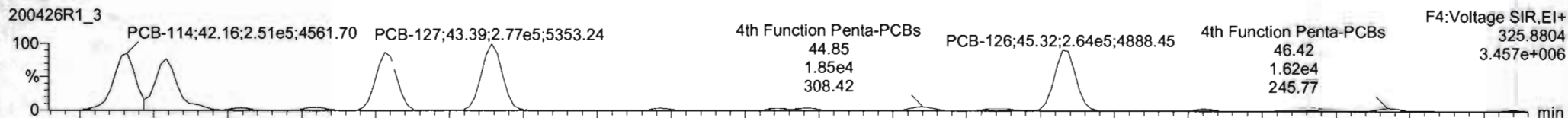


Dataset: Untitled

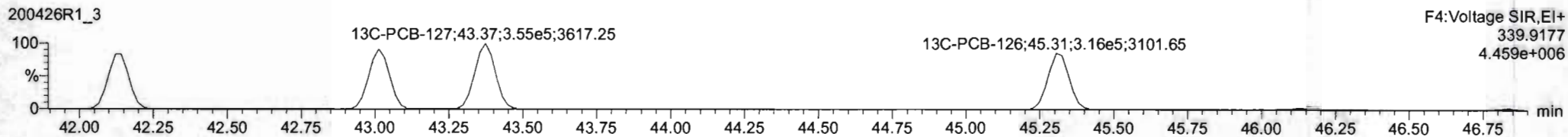
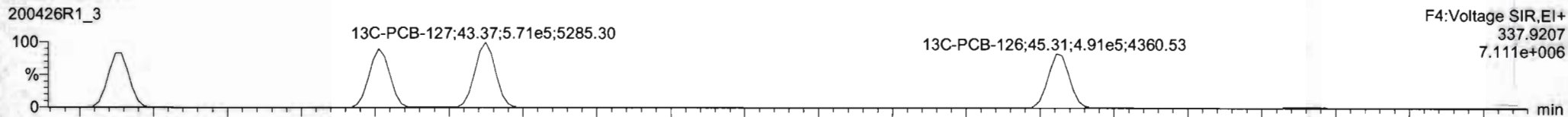
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

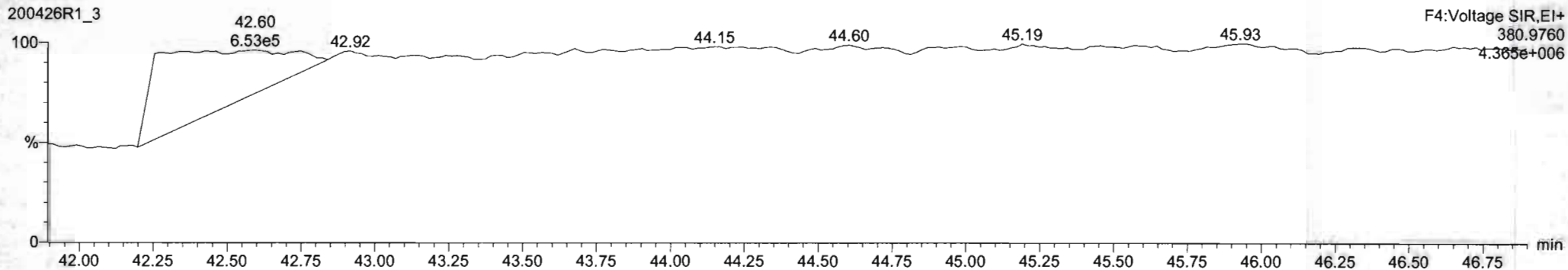
**PCB-114**



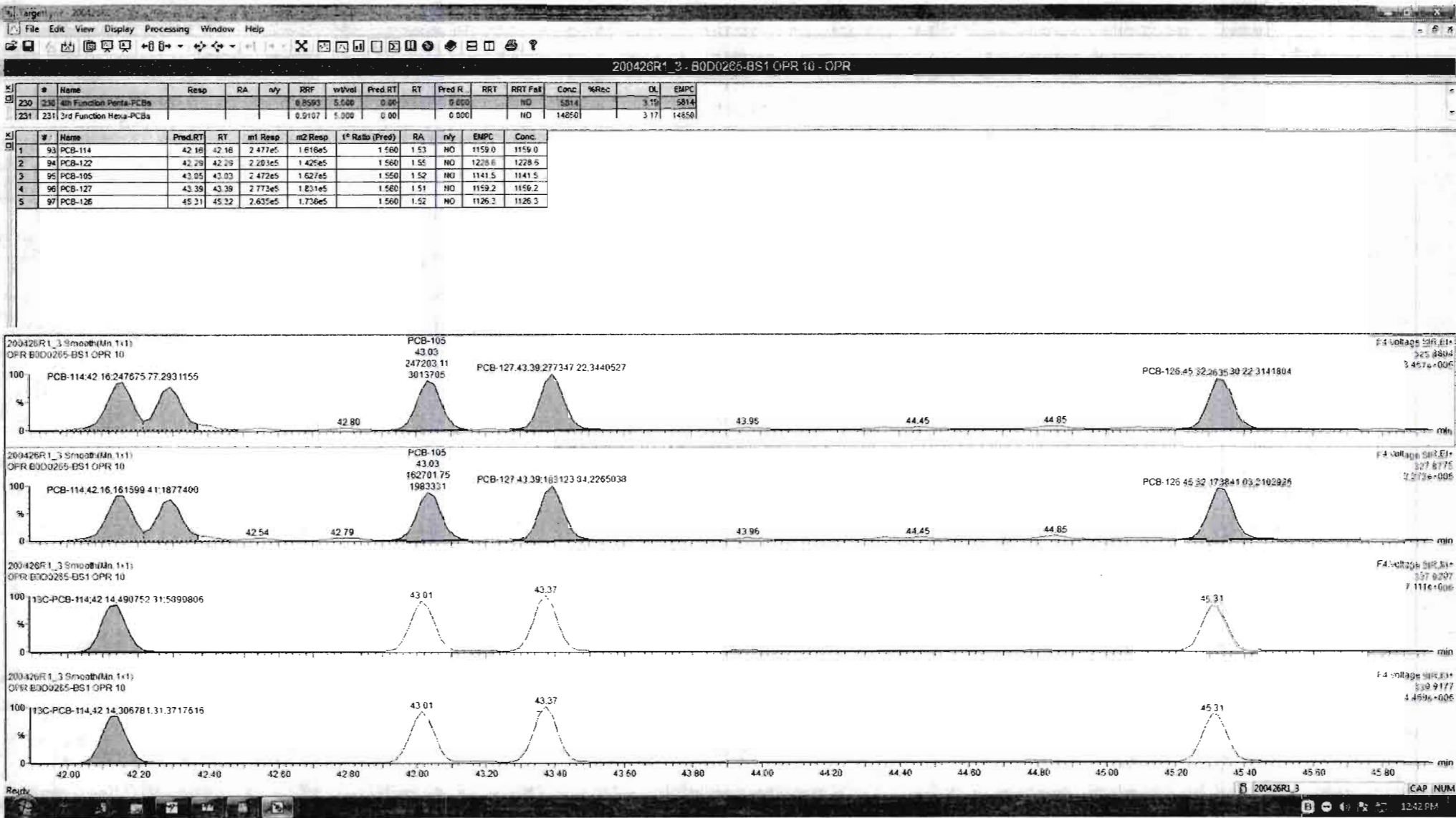
**13C-PCB-114**



**PFK4a**







Dataset: Untitled

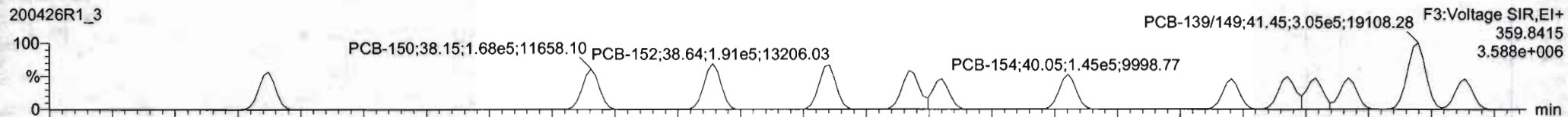
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

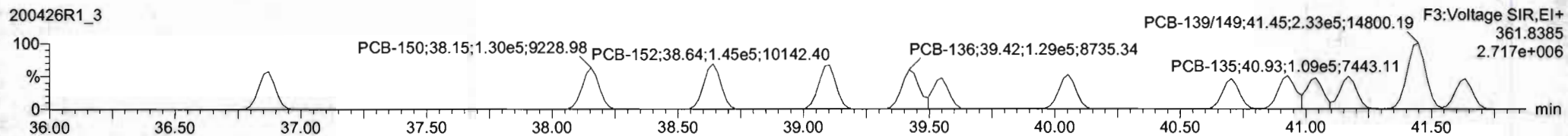
Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

**PCB-155**

200426R1\_3

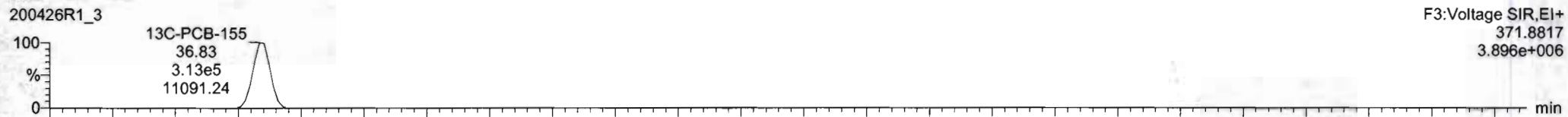


200426R1\_3

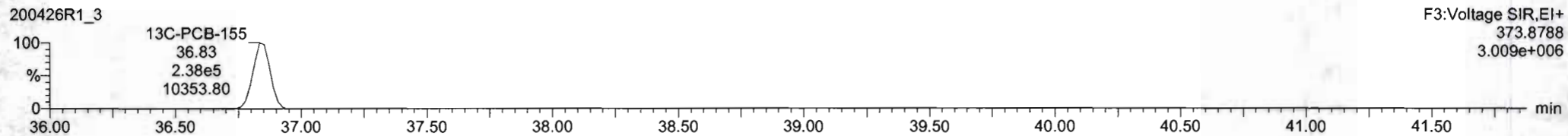


**13C-PCB-155**

200426R1\_3

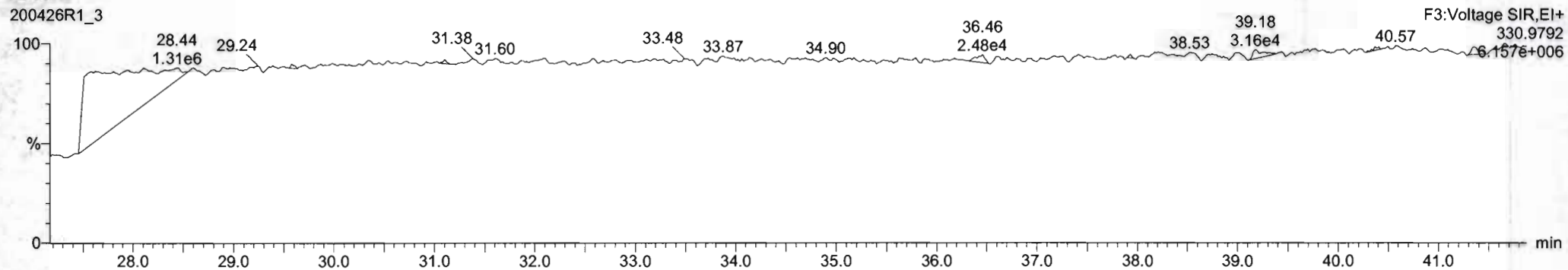


200426R1\_3



**PFK3d**

200426R1\_3

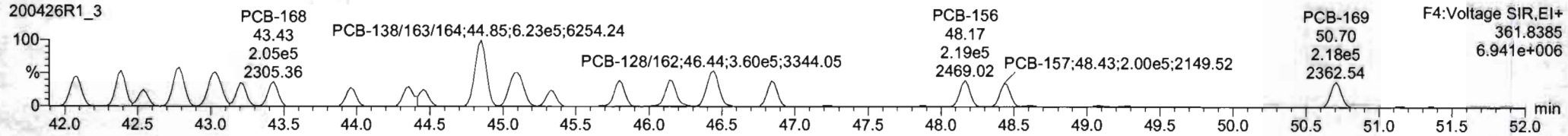
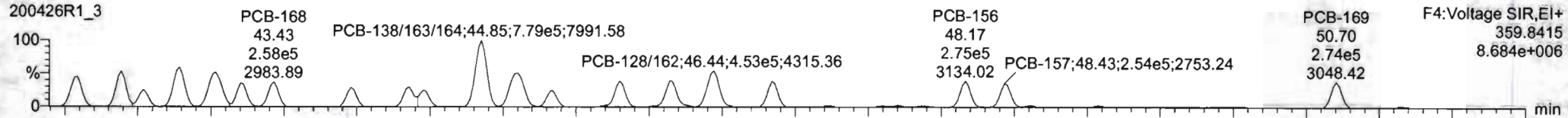


Dataset: Untitled

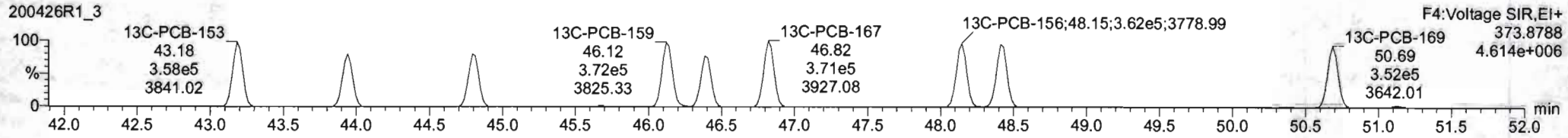
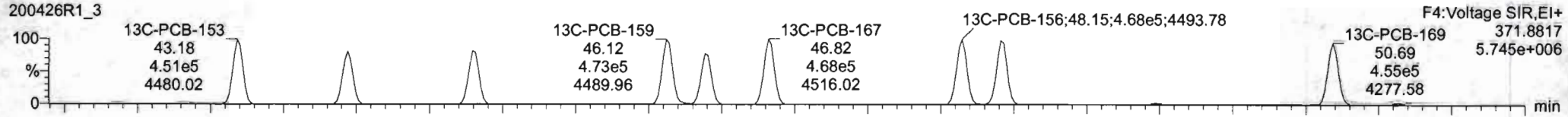
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

**PCB-134/143**



**13C-PCB-153**

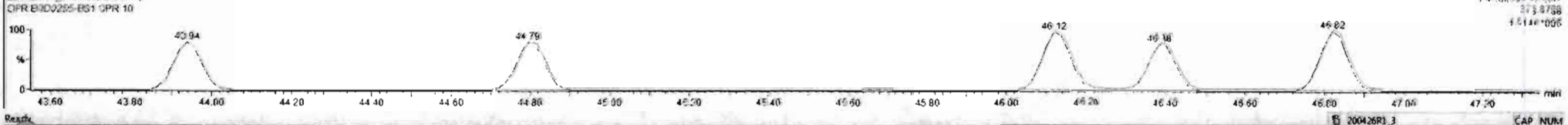
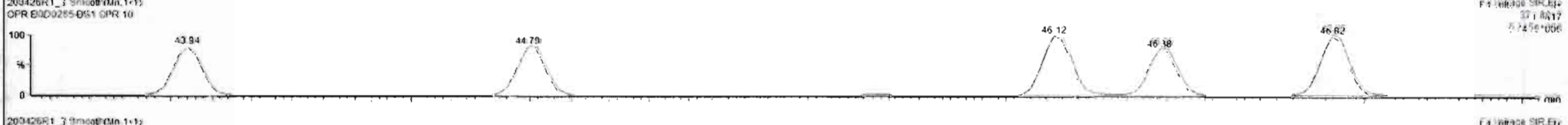
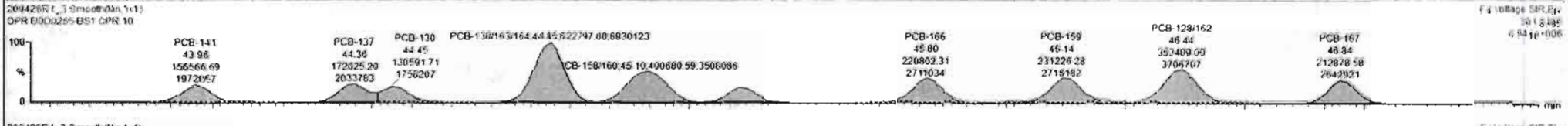
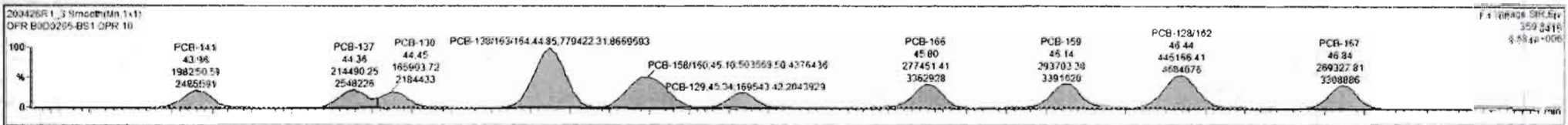


**PFK4b**



#	Name	Resp	RA	nly	RRF	wPval	Pred RT	RT	Pred R	RRT	RRT Fal	Conc	%Rec	DL	ELPC
232	4th Function Hexa-PCBs				0.9328	5.000	0.00		0.000		NO	32220		26.4	32720
233	Total Hepta-PCBs				1.3144	5.000	0.00		0.000		NO	25810		24.0	26310

#	Name	Pred RT	RT	nt Resp	nt2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc
1	111 PCB-134/143	42.06	42.06	3.503e5	2.752e5	1.240	1.27	NO	2367.5	2567.5
2	112 PCB-131/123	42.39	42.39	3.665e5	2.927e5	1.240	1.25	NO	2409.3	2499.3
3	113 PCB-142	42.54	42.54	1.696e5	1.339e5	1.240	1.27	NO	1221.4	1221.4
4	114 PCB-146/165	42.79	42.78	4.585e5	3.666e5	1.240	1.25	NO	2436.2	2436.2
5	115 PCB-132/161	43.03	43.03	4.671e5	3.700e5	1.240	1.26	NO	2277.2	2277.2
6	116 PCB-153	43.22	43.20	2.541e5	1.991e5	1.240	1.26	NO	1117.9	1117.9
7	117 PCB-168	43.43	43.43	2.585e5	2.054e5	1.240	1.26	NO	1141.5	1141.5
8	118 PCB-141	43.96	43.96	1.963e5	1.566e5	1.240	1.27	NO	1100.9	1100.9
9	119 PCB-137	44.36	44.36	2.145e5	1.726e5	1.240	1.24	NO	1276.6	1276.6
10	120 PCB-130	44.45	44.45	1.659e5	1.306e5	1.240	1.27	NO	1111.7	1111.7
11	121 PCB-138/163/164	44.83	44.85	7.794e5	6.226e5	1.240	1.25	NO	3358.9	3358.9
12	122 PCB-158/160	45.08	45.10	5.036e5	4.007e5	1.240	1.26	NO	2375.5	2375.5
13	123 PCB-129	45.34	45.34	1.695e5	1.332e5	1.240	1.27	NO	1126.6	1126.6
14	124 PCB-166	45.80	45.80	2.775e5	2.206e5	1.240	1.26	NO	1169.0	1169.0

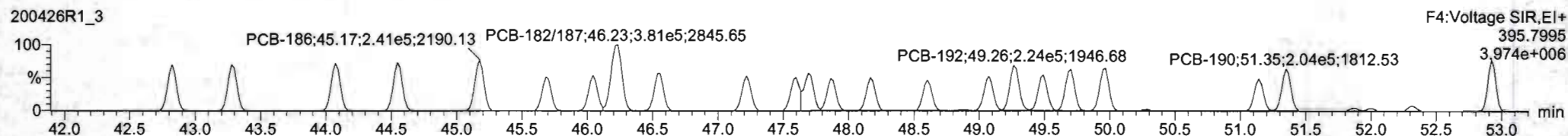
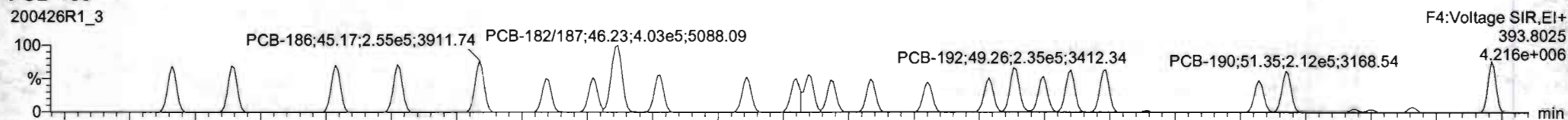


Dataset: Untitled

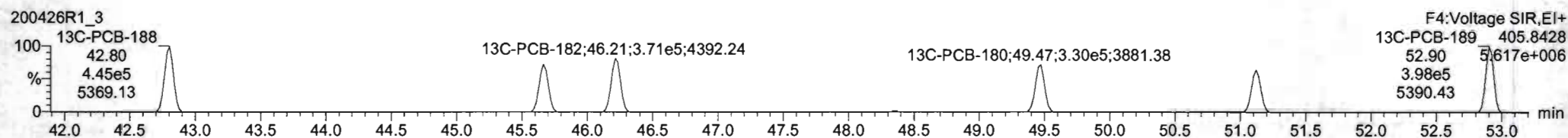
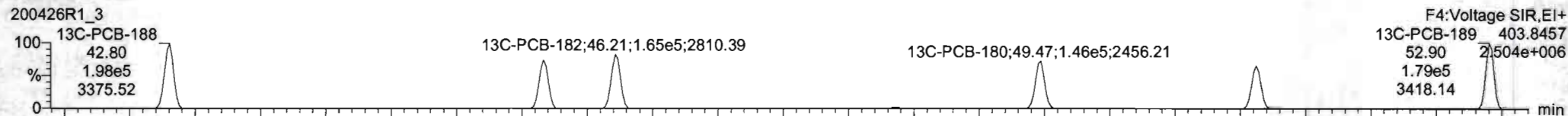
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

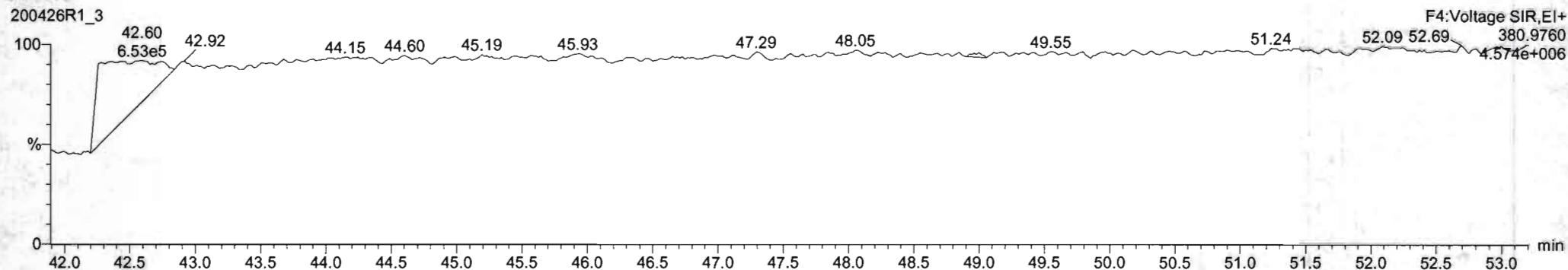
**PCB-188**



**13C-PCB-188**



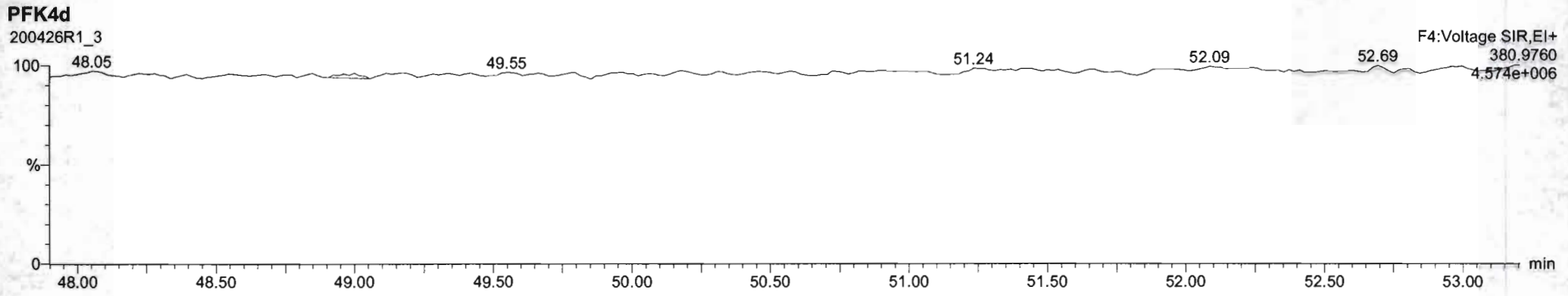
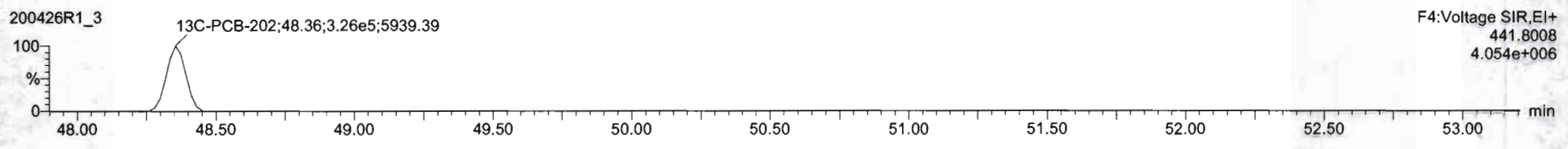
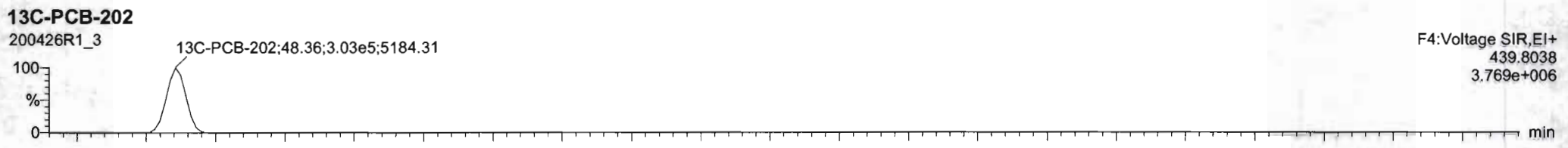
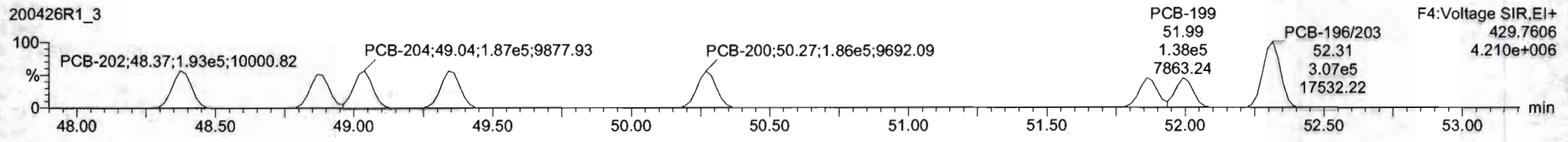
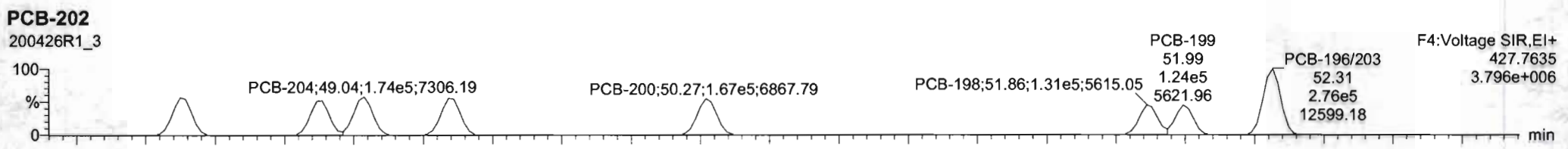
**PFK4c**



Dataset: Untitled

Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR



Dataset: Untitled

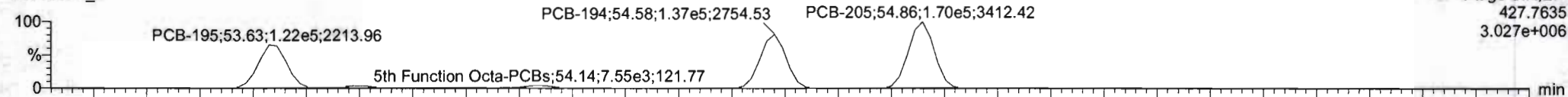
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

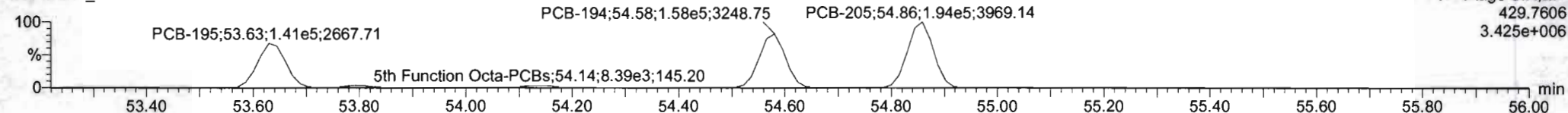
Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

**PCB-195**

200426R1\_3

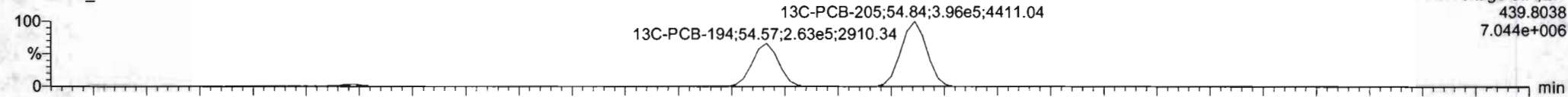


200426R1\_3

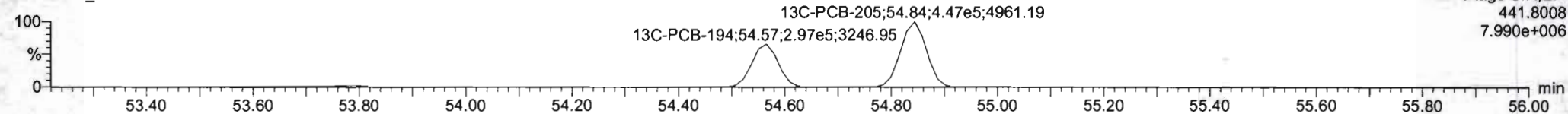


**13C-PCB-194**

200426R1\_3

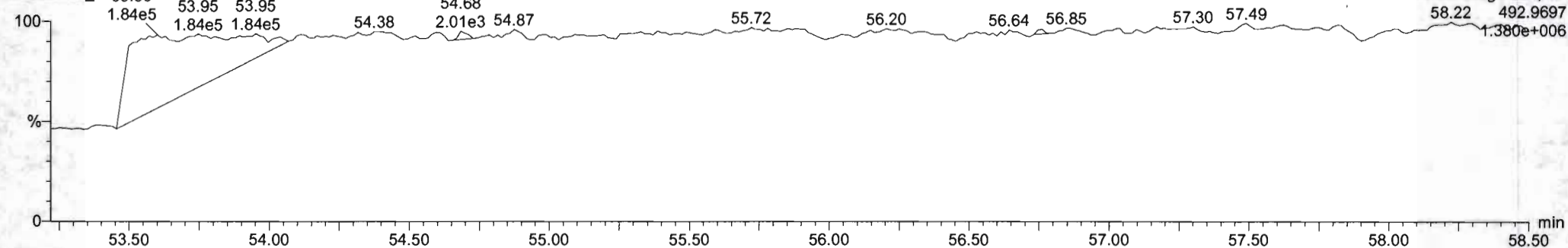


200426R1\_3



**PFK5**

200426R1\_3

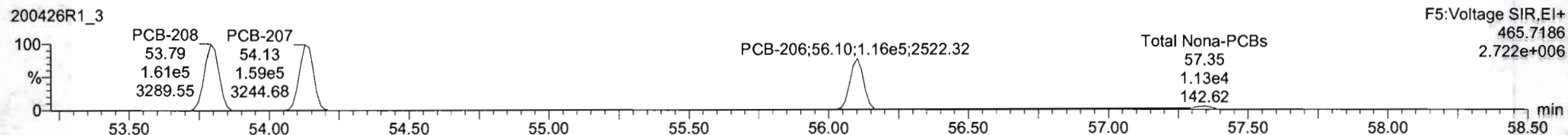
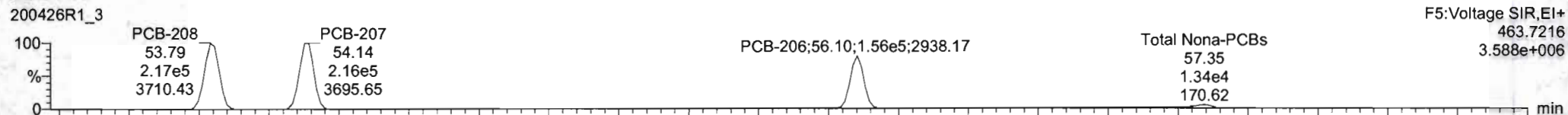


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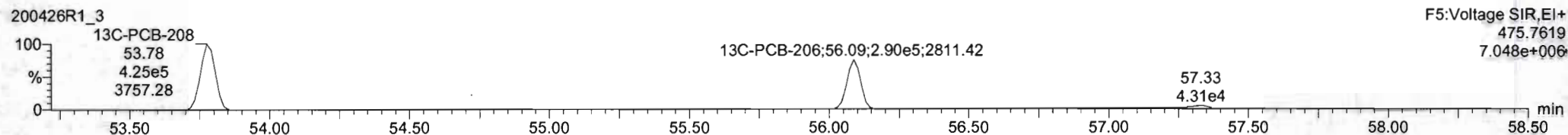
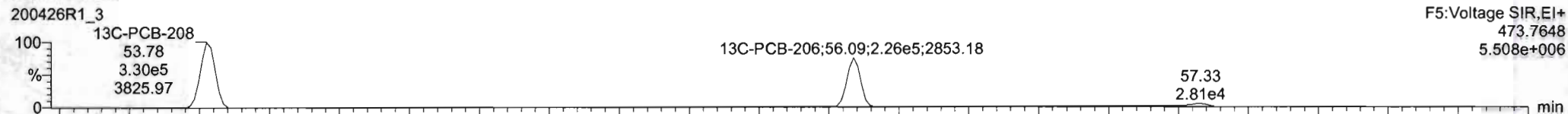
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time  
 Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

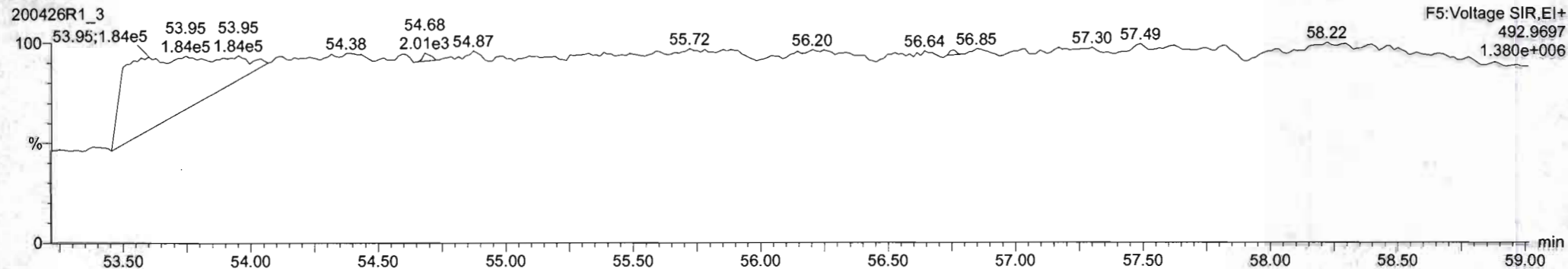
**PCB-208**



**13C-PCB-208**



**PFK5a**





Dataset: Untitled

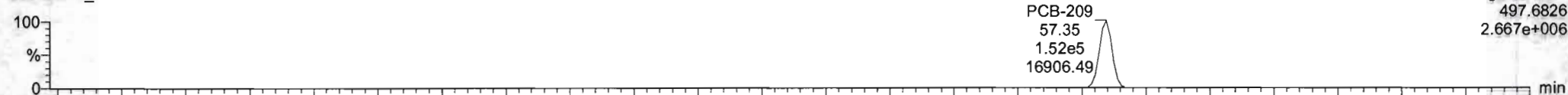
Last Altered: Monday, April 27, 2020 08:09:53 Pacific Daylight Time

Printed: Monday, April 27, 2020 08:10:13 Pacific Daylight Time

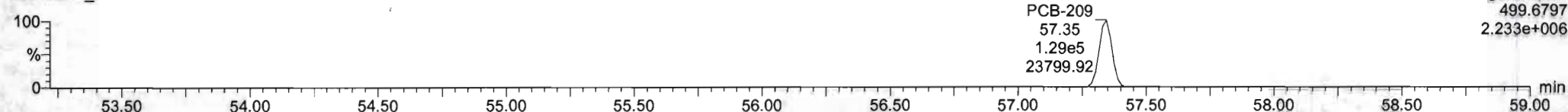
Name: 200426R1\_3, Date: 26-Apr-2020, Time: 13:46:26, ID: B0D0265-BS1 OPR 10, Description: OPR

**PCB-209**

200426R1\_3



200426R1\_3

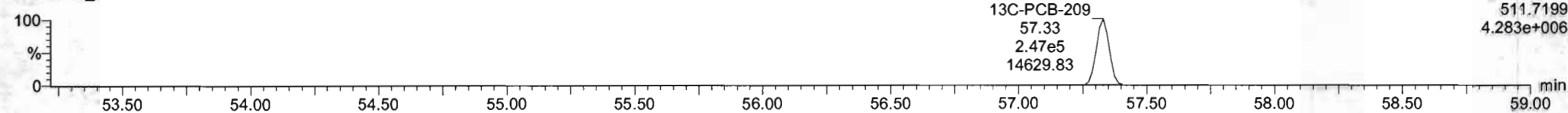


**13C-PCB-209**

200426R1\_3

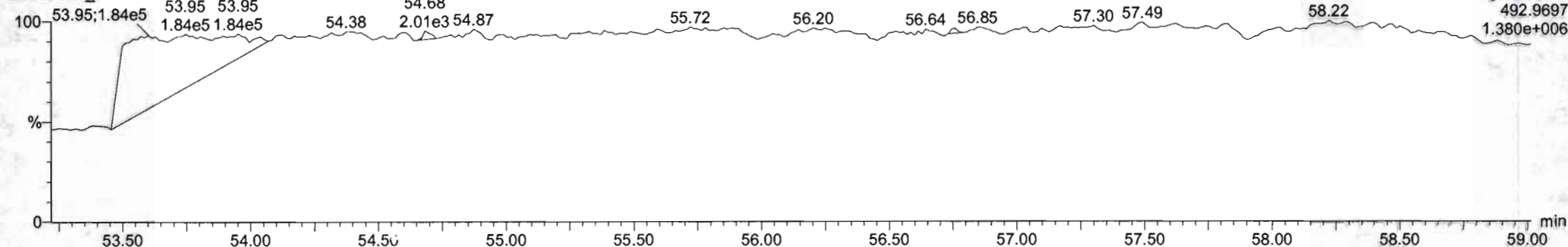


200426R1\_3



**PFK5b**

200426R1\_3



Dataset: U:\VG12.PRO\Results\200426R2\200426R2-3B.qld

Last Altered: Friday, May 01, 2020 13:27:55 Pacific Daylight Time  
Printed: Monday, May 04, 2020 12:09:20 Pacific Daylight Time

GRB 05/04/2020  
C7 05/04/2020

Method: Untitled 23 Apr 2020 11:56:31

Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	18 PCB-34			NO	0.664	5.570	27.55		0.959		YES			0.396	
2	19 PCB-23			NO	0.616	5.570	27.64		0.962		YES			0.427	
3	20 PCB-29			NO	0.615	5.570	27.90		0.971		YES			0.428	
4	21 PCB-26	1.91e3	0.90	NO	0.666	5.570	28.11	28.13	0.979	0.979	NO	4.749		0.395	4.749
5	22 PCB-25	1.19e3	0.97	NO	0.650	5.570	28.29	28.29	0.985	0.985	NO	3.031		0.405	3.031
6	23 PCB-31	1.69e4	1.00	NO	0.749	5.570	28.65	28.65	0.998	0.997	NO	37.25		0.351	37.25
7	24 PCB-28	1.40e4	1.00	NO	0.775	5.570	28.76	28.74	1.001	1.001	NO	29.86		0.340	29.86
8	25 PCB-20/21/33	8.42e3	1.02	NO	0.669	5.570	29.37	29.41	1.023	1.024	NO	20.78		0.394	20.78
9	26 PCB-22	4.32e3	0.89	NO	0.731	5.570	29.82	29.82	1.038	1.038	NO	9.757		0.360	9.757
10	27 PCB-36			NO	0.786	5.570	30.57		0.932		YES			0.445	
11	28 PCB-39			NO	0.730	5.570	31.04		0.946		YES			0.480	
12	29 PCB-38			NO	0.772	5.570	31.84		0.971		YES			0.453	
13	30 PCB-35			NO	0.747	5.570	32.36		0.987		YES			0.469	
14	31 PCB-37	4.75e3	0.94	NO	0.756	5.570	32.81	32.83	1.000	1.001	NO	11.39		0.463	11.39
15	32 PCB-54			NO	0.999	5.570	27.60		1.001		YES			0.190	
16	33 PCB-50			NO	0.788	5.570	28.82		1.045		YES			0.241	
17	34 PCB-53	2.57e3	0.81	NO	0.933	5.570	29.44	29.45	0.944	0.944	NO	7.339		0.270	7.339
18	35 PCB-51	7.93e2	0.74	NO	1.02	5.570	29.79	29.80	0.955	0.955	NO	2.070		0.247	2.070
19	36 PCB-45	2.33e3	0.78	NO	0.762	5.570	30.23	30.25	0.969	0.970	NO	8.146		0.331	8.146
20	37 PCB-46	1.04e3	0.74	NO	0.738	5.570	30.72	30.73	0.985	0.985	NO	3.758		0.341	3.758
21	38 PCB-52/69	3.11e4	0.73	NO	1.09	5.570	31.23	31.21	1.001	1.001	NO	76.39		0.232	76.39
22	39 PCB-73			NO	1.30	5.570	31.35		1.005		YES			0.193	
23	40 PCB-43/49	1.70e4	0.78	NO	0.914	5.570	31.53	31.53	1.011	1.011	NO	49.65		0.276	49.65
24	41 PCB-47	5.86e3	0.77	NO	0.841	5.570	31.74	31.74	1.001	1.001	NO	16.97		0.287	16.97
25	42 PCB-48/75	4.32e3	0.75	NO	1.01	5.570	31.85	31.86	1.004	1.005	NO	10.38		0.238	10.38
26	43 PCB-65			NO	1.05	5.570	32.13		1.013		YES			0.229	
27	44 PCB-62			NO	1.02	5.570	32.22		1.016		YES			0.236	
28	45 PCB-44	1.58e4	0.74	NO	0.716	5.570	32.55	32.63	1.026	1.029	NO	53.66		0.337	53.66
29	46 PCB-42/59	6.04e3	0.73	NO	0.943	5.570	32.78	32.89	1.033	1.037	NO	15.59		0.256	15.59
30	47 PCB-41/64/71/72	1.65e4	0.78	NO	1.07	5.570	33.37	33.47	1.052	1.055	NO	37.53		0.226	37.53
31	48 PCB-68	2.23e2	0.76	NO	1.09	5.570	33.65	33.67	1.061	1.062	NO	0.4963		0.221	0.4960

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Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

GPB 05/04/2020

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	49 PCB-40	1.58e3	0.79	NO	0.535	5.570	33.86	33.86	1.067	1.067	NO	7.164		0.451	7.164
33	50 PCB-57	2.05e2	0.84	NO	1.03	5.570	34.21	34.25	0.969	0.970	NO	0.4600		0.198	0.4600
34	51 PCB-67	7.88e2	0.74	NO	0.985	5.570	34.53	34.58	0.978	0.979	NO	1.853		0.208	1.853
35	52 PCB-58	1.91e2	0.58	YES	1.05	5.570	34.66	34.69	0.982	0.983	NO	0.4494		0.104	0.3560
36	53 PCB-63	1.28e3	0.93	YES	0.933	5.570	34.81	34.84	0.986	0.987	NO	3.169		0.249	2.907
37	54 PCB-74	1.09e4	0.77	NO	1.03	5.570	35.10	35.12	0.994	0.995	NO	24.56		0.199	24.56
38	55 PCB-61/70	3.39e4	0.78	NO	0.968	5.570	35.33	35.33	1.001	1.000	NO	81.27		0.211	81.27
39	56 PCB-76/66	2.70e4	0.78	NO	1.04	5.570	35.51	35.53	1.006	1.006	NO	59.96		0.196	59.96
40	57 PCB-80			NO	1.07	5.570	35.75		1.000		YES			0.176	
41	58 PCB-55	4.22e2	0.82	NO	1.05	5.570	36.06	36.07	1.009	1.009	NO	0.8296		0.180	0.8300
42	59 PCB-56/60	1.64e4	0.77	NO	0.932	5.570	36.56	36.57	1.023	1.023	NO	36.26		0.202	36.26
43	60 PCB-79	6.99e2	0.78	NO	1.06	5.570	37.69	37.69	1.055	1.055	NO	1.360		0.178	1.360
44	61 PCB-78			NO	1.00	5.570	38.38		0.987		YES			0.213	
45	62 PCB-81	8.63e2	0.76	NO	0.954	5.570	38.92	38.95	1.000	1.001	NO	2.025		0.223	2.025
46	63 PCB-77	2.58e3	0.88	NO	1.07	5.570	39.53	39.53	1.000	1.000	NO	5.677		0.210	5.677
47	64 PCB-104			NO	1.14	5.570	32.44		1.001		YES			0.207	
48	65 PCB-96			NO	1.12	5.570	33.75		1.041		YES			0.210	
49	66 PCB-103	5.25e2	1.28	YES	0.862	5.570	34.31	34.26	1.058	1.057	NO	1.912		0.274	1.762
50	67 PCB-100			NO	0.903	5.570	34.68		1.070		YES			0.261	
51	68 PCB-94			NO	0.907	5.570	35.07		0.985		YES			0.263	
52	69 PCB-95/98/102	2.73e4	1.59	NO	1.18	5.570	35.56	35.62	0.999	1.000	NO	84.85		0.202	84.85
53	70 PCB-93			NO	0.847	5.570	35.68		1.002		YES			0.281	
54	71 PCB-88/91	3.56e3	1.79	NO	0.981	5.570	36.01	36.03	1.012	1.012	NO	13.33		0.243	13.33
55	72 PCB-121			NO	1.54	5.570	36.14		1.015		YES			0.154	
56	73 PCB-84/92	1.21e4	1.67	NO	0.977	5.570	36.95	36.96	0.990	0.990	NO	47.48		0.262	47.48
57	74 PCB-89	4.58e2	1.42	NO	1.11	5.570	37.15	37.15	0.995	0.995	NO	1.585		0.230	1.585
58	75 PCB-90/101	3.69e4	1.53	NO	1.08	5.570	37.34	37.35	1.000	1.000	NO	131.2		0.236	131.2
59	76 PCB-113	9.37e1	1.46	NO	1.46	5.570	37.60	37.58	1.007	1.007	NO	0.2476		0.176	0.2480
60	77 PCB-99	1.39e4	1.69	NO	1.24	5.570	37.69	37.69	1.009	1.010	NO	43.07		0.206	43.07
61	78 PCB-119	9.65e2	1.47	NO	1.66	5.570	38.17	38.17	0.987	0.988	NO	2.407		0.161	2.407
62	79 PCB-108/112	1.46e3	1.63	NO	1.39	5.570	38.30	38.34	0.991	0.992	NO	4.335		0.192	4.335
63	80 PCB-83			NO	1.67	5.570	38.49		0.996		YES			0.160	
64	81 PCB-97	8.21e3	1.72	NO	1.25	5.570	38.68	38.67	1.000	1.000	NO	27.14		0.213	27.14
65	82 PCB-86	1.52e2	1.40	NO	1.09	5.570	38.84	38.84	1.005	1.005	NO	0.5754		0.244	0.5750

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Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

*GRB 05/04/2020*

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
66	83 PCB-87/117/125	1.22e4	1.72	NO	1.53	<del>5.570</del> 5.05	38.95	38.97	1.008	1.008	NO	33.12		0.174	33.12
67	84 PCB-111/115	7.02e2	2.38	YES	1.81	5.570	39.12	39.12	1.012	1.012	NO	<del>1.06</del>		0.147	1.217
68	85 PCB-85/116	4.88e3	1.68	NO	1.32	5.570	39.22	39.23	1.015	1.015	NO	15.32		0.202	15.32
69	86 PCB-120	2.97e2	1.52	NO	1.90	5.570	39.51	39.49	1.022	1.022	NO	0.6481		0.141	0.6480
70	87 PCB-110	4.06e4	1.63	NO	1.65	5.570	39.66	39.64	1.026	1.026	NO	102.0		0.162	102.0
71	88 PCB-82	2.53e3	1.53	NO	0.779	5.570	40.28	40.28	0.976	0.976	NO	10.98		0.296	10.98
72	89 PCB-124	1.55e3	1.43	NO	1.32	5.570	40.98	40.98	0.993	0.993	NO	3.952		0.175	3.952
73	90 PCB-107/109	2.74e3	1.64	NO	1.30	5.570	41.13	41.17	0.996	0.997	NO	7.122		0.178	7.122
74	91 PCB-123	4.86e2	1.69	NO	1.19	5.570	41.30	41.32	1.000	1.001	NO	1.381		0.194	1.381
75	92 PCB-106/118	2.98e4	1.58	NO	1.22	5.570	41.51	41.50	1.001	1.000	NO	81.71		0.191	81.71
76	93 PCB-114	8.19e2	1.38	NO	0.886	5.570	42.16	42.18	1.000	1.001	NO	2.597		0.195	2.597
77	94 PCB-122	3.96e2	1.54	NO	0.741	5.570	42.29	42.29	1.004	1.004	NO	1.501		0.233	1.501
78	95 PCB-105	9.86e3	1.45	NO	0.850	5.570	43.07	43.05	1.001	1.000	NO	32.97		0.212	32.97
79	96 PCB-127	1.42e2	1.02	YES	0.858	5.570	43.41	43.37	1.000	1.000	NO	<del>0.4465</del>		0.202	0.3710
80	97 PCB-126	2.78e2	1.54	NO	0.962	5.570	45.33	45.34	1.000	1.000	NO	0.9347		0.213	0.9350
81	98 PCB-155			NO	1.01	5.570	36.89		1.001		YES			0.123	
82	99 PCB-150			NO	1.05	5.570	38.15		1.035		YES			0.119	
83	1... PCB-152			NO	1.20	5.570	38.64		1.049		YES			0.104	
84	1... PCB-145			NO	1.17	5.570	39.10		1.061		YES			0.107	
85	1... PCB-136	6.50e3	1.27	NO	1.01	5.570	39.42	39.44	1.070	1.070	NO	26.23		0.124	26.23
86	1... PCB-148			NO	0.770	5.570	39.55		1.073		YES			0.162	
87	1... PCB-154	5.40e2	1.39	NO	0.862	5.570	40.05	40.05	1.087	1.087	NO	2.545		0.145	2.545
88	1... PCB-151	8.95e3	1.29	NO	0.723	5.570	40.70	40.70	1.105	1.105	NO	50.35		0.173	50.35
89	1... PCB-135	4.51e3	1.18	NO	0.836	5.570	40.93	40.93	1.111	1.111	NO	21.92		0.149	21.92
90	1... PCB-144	1.62e3	1.36	NO	0.756	5.570	41.04	41.04	1.114	1.114	NO	8.713		0.165	8.713
91	1... PCB-147	4.58e2	1.35	NO	0.789	5.570	41.17	41.17	1.117	1.117	NO	2.358		0.158	2.358
92	1... PCB-139/149	2.93e4	1.32	NO	0.896	5.570	41.45	41.43	1.125	1.124	NO	133.0		0.139	133.0
93	1... PCB-140	1.68e2	1.08	NO	0.769	5.570	41.63	41.63	1.130	1.130	NO	0.8850		0.162	0.8850
94	1... PCB-134/143	2.10e3	1.43	YES	0.653	5.570	42.10	42.10	0.975	0.975	NO	<del>9.159</del>		0.253	8.426
95	1... PCB-131/133	1.15e3	1.23	NO	0.677	5.570	42.41	42.39	0.982	0.981	NO	4.850		0.379	4.850
96	1... PCB-142			NO	0.614	5.570	42.56		0.985		YES			0.418	
97	1... PCB-146/165	7.69e3	1.21	NO	0.836	5.570	42.81	42.80	0.991	0.991	NO	26.26		0.307	26.26
98	1... PCB-132/161	1.35e4	1.27	NO	0.908	5.570	43.05	43.07	0.997	0.997	NO	42.54		0.283	42.53
99	1... PCB-153	5.66e4	1.28	NO	1.00	5.570	43.24	43.22	1.001	1.000	NO	161.5		0.256	161.5

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Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

*GRD 05/04/2020*

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
100	1... PCB-168			NO	1.00	<del>5.570</del> 5.051	43.45		1.006		YES			0.256	
101	1... PCB-141	9.99e3	1.34	NO	0.970	5.570	43.96	43.98	1.000	1.001	NO	35.57		0.322	35.57
102	1... PCB-137	1.20e3	1.33	NO	0.913	5.570	44.36	44.36	1.010	1.010	NO	4.543		0.342	4.543
103	1... PCB-130	1.99e3	1.17	NO	0.803	5.570	44.45	44.47	1.012	1.012	NO	8.562		0.389	8.562
104	1... PCB-138/163/164	5.23e4	1.25	NO	1.21	5.570	44.85	44.85	1.001	1.001	NO	149.4		0.247	149.4
105	1... PCB-158/160	5.15e3	1.23	NO	1.10	5.570	45.10	45.08	1.007	1.006	NO	16.12		0.271	16.12
106	1... PCB-129	1.27e3	1.13	NO	0.779	5.570	45.36	45.34	1.012	1.012	NO	5.635		0.384	5.635
107	1... PCB-166	2.01e2	1.14	NO	1.01	5.570	45.82	45.82	0.993	0.993	NO	0.5892		0.270	0.5890
108	1... PCB-159	1.06e3	1.27	NO	1.11	5.570	46.16	46.21	1.000	1.002	NO	2.828		0.246	2.828
109	1... PCB-128/162	5.15e3	1.28	NO	0.859	5.570	46.46	46.42	1.007	1.006	NO	17.74		0.317	17.74
110	1... PCB-167	1.56e3	1.19	NO	1.04	5.570	46.86	46.86	1.000	1.000	NO	4.592		0.268	4.592
111	1... PCB-156	4.51e3	1.30	NO	1.08	5.570	48.17	48.17	1.000	1.000	NO	13.55		0.272	13.55
112	1... PCB-157	6.78e2	1.53	YES	0.977	5.570	48.45	48.45	1.000	1.000	NO	2.281		0.307	1.976
113	1... PCB-169	2.29e2	2.02	YES	1.11	5.570	50.69	50.72	1.000	1.001	NO	0.8377		0.341	0.6220
114	1... PCB-188			NO	1.27	5.570	42.84		1.001		YES			0.148	
115	1... PCB-184			NO	1.33	5.570	43.28		1.011		YES			0.141	
116	1... PCB-179	1.04e4	1.03	NO	1.25	5.570	44.08	44.09	1.030	1.030	NO	28.52		0.150	28.52
117	1... PCB-176	3.20e3	1.12	NO	1.22	5.570	44.56	44.57	1.041	1.041	NO	8.971		0.153	8.971
118	1... PCB-186			NO	1.31	5.570	45.17		1.055		YES			0.143	
119	1... PCB-178	3.22e3	1.01	NO	0.889	5.570	45.69	45.70	1.067	1.068	NO	12.45		0.210	12.45
120	1... PCB-175	5.52e2	0.99	NO	0.886	5.570	46.04	46.04	1.076	1.076	NO	2.138		0.211	2.138
121	1... PCB-182/187	2.12e4	1.04	NO	1.04	5.570	46.23	46.21	1.080	1.080	NO	69.77		0.180	69.78
122	1... PCB-183	1.02e4	0.99	NO	0.972	5.570	46.57	46.56	1.088	1.088	NO	35.91		0.192	35.91
123	1... PCB-185	1.97e3	1.01	NO	1.35	5.570	47.24	47.22	0.955	0.954	NO	8.217		0.227	8.217
124	1... PCB-174	1.59e4	1.04	NO	1.28	5.570	47.62	47.60	0.963	0.962	NO	69.65		0.239	69.65
125	1... PCB-181	2.63e2	1.04	NO	1.48	5.570	47.71	47.69	0.964	0.964	NO	0.9992		0.207	0.9990
126	1... PCB-177	7.89e3	0.99	NO	1.24	5.570	47.88	47.88	0.968	0.968	NO	35.72		0.247	35.72
127	1... PCB-171	4.01e3	1.13	NO	1.33	5.570	48.19	48.17	0.974	0.974	NO	16.98		0.231	16.98
128	1... PCB-173	3.02e2	1.11	NO	1.16	5.570	48.62	48.60	0.983	0.982	NO	1.468		0.265	1.468
129	1... PCB-172	2.13e3	0.97	NO	1.34	5.570	49.08	49.08	0.992	0.992	NO	8.934		0.228	8.934
130	1... PCB-192			NO	1.67	5.570	49.26		0.996		YES			0.184	
131	1... PCB-180	3.44e4	1.00	NO	1.38	5.570	49.49	49.49	1.000	1.000	NO	140.4		0.222	140.4
132	1... PCB-193	1.89e3	0.92	NO	1.56	5.570	49.70	49.70	1.005	1.005	NO	6.822		0.197	6.822
133	1... PCB-191	8.09e2	0.91	NO	1.60	5.570	49.97	49.97	1.010	1.010	NO	2.836		0.191	2.836

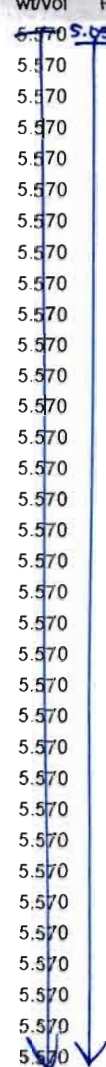
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Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
134	1... PCB-170	1.10e4	1.10	NO	1.41	5.570	51.14	51.14	1.000	1.000	NO	53.14		0.267	53.14
135	1... PCB-190	2.94e3	0.94	NO	1.79	5.570	51.35	51.35	1.005	1.004	NO	11.22		0.211	11.22
136	1... PCB-189	5.15e2	1.02	NO	1.47	5.570	52.94	52.94	1.000	1.000	NO	2.066		0.195	2.066
137	1... PCB-202	1.79e3	0.81	NO	1.09	5.570	48.37	48.39	1.000	1.001	NO	6.463		0.0929	6.463
138	1... PCB-201	1.12e3	1.00	NO	0.947	5.570	48.88	48.87	1.011	1.011	NO	4.666		0.107	4.666
139	1... PCB-204			NO	1.03	5.570	49.03		1.014		YES			0.0982	
140	1... PCB-197	3.40e2	0.96	NO	1.02	5.570	49.35	49.34	1.020	1.020	NO	1.310		0.0989	1.310
141	1... PCB-200	1.14e3	0.88	NO	0.976	5.570	50.28	50.27	1.040	1.040	NO	4.599		0.104	4.599
142	1... PCB-198	3.31e2	0.81	NO	0.752	5.570	51.85	51.88	1.072	1.073	NO	1.738		0.135	1.738
143	1... PCB-199	6.17e3	0.84	NO	0.732	5.570	52.00	51.99	1.075	1.075	NO	33.26		0.138	33.26
144	1... PCB-196/203	7.04e3	1.02	NO	0.824	5.570	52.30	52.31	1.082	1.082	NO	33.68		0.123	33.68
145	1... PCB-195	1.80e3	0.87	NO	0.765	5.570	53.63	53.64	0.983	0.983	NO	13.67		0.257	13.67
146	1... PCB-194	4.61e3	0.87	NO	0.967	5.570	54.58	54.58	1.000	1.000	NO	27.73		0.204	27.73
147	1... PCB-205	3.22e2	0.88	NO	1.11	5.570	54.85	54.86	1.005	1.005	NO	1.688		0.177	1.688
148	1... PCB-208	1.38e3	1.43	NO	0.901	5.570	53.80	53.79	1.000	1.000	NO	5.698		0.131	5.698
149	1... PCB-207	4.76e2	1.52	NO	0.841	5.570	54.14	54.14	1.007	1.007	NO	2.111		0.140	2.111
150	1... PCB-206	2.42e3	1.32	NO	0.958	5.570	56.11	56.12	1.000	1.000	NO	16.51		0.200	16.51
151	1... PCB-209	2.78e3	1.22	NO	0.956	5.570	57.35	57.35	1.000	1.000	NO	16.91		0.100	16.91
152	1... 13C-PCB-28	1.20e6	1.02	NO	1.10	5.570	28.72	28.72	1.003	1.003	NO	1852	93.5	2.58	
153	1... 13C-PCB-37	1.09e6	1.04	NO	0.983	5.570	32.69	32.79	1.142	1.146	NO	1882	95.0	2.88	
154	1... 13C-PCB-54	9.14e5	0.79	NO	1.07	5.570	27.54	27.58	0.753	0.755	NO	1768	89.3	1.03	
155	1... 13C-PCB-52	7.42e5	0.78	NO	0.854	5.570	31.18	31.19	0.853	0.853	NO	1797	90.8	1.29	
156	1... 13C-PCB-47	8.14e5	0.80	NO	0.905	5.570	31.70	31.72	0.867	0.868	NO	1859	93.9	1.22	
157	1... 13C-PCB-70	8.54e5	0.80	NO	1.01	5.570	35.30	35.31	0.966	0.966	NO	1756	88.7	1.10	
158	1... 13C-PCB-80	9.64e5	0.79	NO	1.04	5.570	35.74	35.74	0.978	0.978	NO	1909	96.4	1.06	
159	1... 13C-PCB-81	8.85e5	0.80	NO	0.974	5.570	38.92	38.90	1.065	1.064	NO	1880	94.9	1.13	
160	1... 13C-PCB-77	8.44e5	0.80	NO	0.951	5.570	39.51	39.51	1.081	1.081	NO	1837	92.8	1.16	
161	1... 13C-PCB-104	6.30e5	1.62	NO	1.08	5.570	32.33	32.42	0.827	0.829	NO	1741	87.9	0.529	
162	1... 13C-PCB-95	5.39e5	1.61	NO	0.847	5.570	35.60	35.60	0.910	0.910	NO	1904	96.2	0.678	
163	1... 13C-PCB-101	5.15e5	1.62	NO	0.827	5.570	37.32	37.33	0.955	0.955	NO	1865	94.2	0.694	
164	1... 13C-PCB-97	4.78e5	1.64	NO	0.707	5.570	38.64	38.66	0.988	0.989	NO	2022	102	0.812	
165	1... 13C-PCB-123	5.87e5	1.61	NO	0.914	5.570	41.28	41.28	1.056	1.056	NO	1922	97.1	0.628	
166	1... 13C-PCB-118	5.93e5	1.63	NO	0.961	5.570	41.47	41.49	1.061	1.061	NO	1848	93.3	0.598	
167	1... 13C-PCB-114	7.05e5	1.60	NO	1.41	5.570	42.14	42.14	0.908	0.908	NO	1982	100	1.01	

GRS 05/04/2020



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Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

*GRB 05/04/2020*

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC	
168	1... 13C-PCB-105	6.96e5	1.58	NO	1.56	5.570	5.051	43.03	43.03	0.927	0.927	NO	1766	89.2	0.910	
169	1... 13C-PCB-127	7.32e5	1.56	NO	1.71	5.570		43.37	43.39	0.935	0.935	NO	1688	85.2	0.828	
170	1... 13C-PCB-126	6.12e5	1.60	NO	1.37	5.570		45.31	45.32	0.976	0.977	NO	1768	89.3	1.04	
171	1... 13C-PCB-155	4.87e5	1.30	NO	0.634	5.570		36.85	36.85	0.942	0.942	NO	2301	116	0.397	
172	1... 13C-PCB-153	6.94e5	1.26	NO	1.53	5.570		43.18	43.20	0.931	0.931	NO	1795	90.7	0.952	
173	1... 13C-PCB-141	5.74e5	1.29	NO	1.19	5.570		43.94	43.94	0.947	0.947	NO	1901	96.0	1.22	
174	1... 13C-PCB-138	5.73e5	1.26	NO	1.18	5.570		44.81	44.81	0.966	0.966	NO	1916	96.7	1.23	
175	1... 13C-PCB-159	6.70e5	1.26	NO	1.38	5.570		46.13	46.14	0.994	0.994	NO	1913	96.6	1.05	
176	2... 13C-PCB-167	6.45e5	1.27	NO	1.38	5.570		46.83	46.84	1.009	1.009	NO	1843	93.1	1.05	
177	2... 13C-PCB-156	6.09e5	1.27	NO	1.33	5.570		48.18	48.15	1.038	1.038	NO	1811	91.5	1.09	
178	2... 13C-PCB-157	6.16e5	1.28	NO	1.36	5.570		48.44	48.43	1.044	1.044	NO	1787	90.2	1.07	
179	2... 13C-PCB-169	4.90e5	1.27	NO	1.27	5.570		50.70	50.69	1.092	1.092	NO	1527	77.1	1.15	
180	2... 13C-PCB-188	5.77e5	0.46	NO	1.41	5.570		42.80	42.80	0.926	0.926	NO	2013	102	0.713	
181	2... 13C-PCB-180	3.52e5	0.44	NO	0.897	5.570		49.47	49.47	1.070	1.070	NO	1930	97.4	1.12	
182	2... 13C-PCB-170	2.89e5	0.46	NO	0.769	5.570		51.15	51.12	1.106	1.106	NO	1851	93.5	1.31	
183	2... 13C-PCB-189	3.37e5	0.44	NO	1.05	5.570		52.93	52.92	1.145	1.145	NO	1576	79.6	0.955	
184	2... 13C-PCB-202	5.02e5	0.93	NO	1.05	5.570		48.37	48.35	1.046	1.046	NO	2361	119	0.754	
185	2... 13C-PCB-194	3.41e5	0.89	NO	0.753	5.570		54.57	54.56	0.995	0.995	NO	1964	99.2	1.91	
186	2... 13C-PCB-208	5.31e5	0.78	NO	0.988	5.570		53.78	53.79	0.981	0.981	NO	2332	118	1.67	
187	2... 13C-PCB-206	3.03e5	0.78	NO	0.672	5.570		56.09	56.10	1.023	1.023	NO	1955	98.7	2.45	
188	2... 13C-PCB-209	3.41e5	1.21	NO	0.609	5.570		57.33	57.33	1.045	1.045	NO	2428	123	0.269	
189	2... 13C-PCB-31	1.17e6	1.02	NO	1.00	5.570		28.59	28.63	1.000	0.000	NO	1980	100	2.83	
190	2... 13C-PCB-60	9.57e5	0.80	NO	1.00	5.570		36.54	36.55	1.000	0.000	NO	1980	100	1.10	
191	2... 13C-PCB-111	6.61e5	1.63	NO	1.00	5.570		39.10	39.10	1.000	0.000	NO	1980	100	0.574	
192	2... 13C-PCB-128	5.01e5	1.28	NO	1.00	5.570		46.38	46.40	1.000	0.000	NO	1980	100	1.45	
193	2... 13C-PCB-182	4.03e5	0.44	NO	1.00	5.570		46.21	46.23	0.000	0.000	NO	1980	100	1.00	
194	2... 13C-PCB-205	4.56e5	0.88	NO	1.00	5.570		54.84	54.84	1.000	0.000	NO	1980	100	1.44	
195	2... 13C-PCB-79	1.04e6	0.80	NO	1.08	5.570		37.64	37.65	1.030	1.030	NO	1995	101	1.02	
196	2... 13C-PCB-178	3.94e5	0.44	NO	0.731	5.570		45.69	45.67	0.988	0.988	NO	2131	108	1.09	
197	2... 13C-PCB-79	1.04e6	0.80	NO	1.11	5.570		37.63	37.65	0.967	0.968	NO	2101	106	1.11	
198	2... 13C-PCB-178	3.94e5	0.44	NO	1.05	5.570		45.69	45.67	0.924	0.923	NO	2121	107	1.07	
199	2... Total Mono-PCBs				1.06	5.570		0.00		0.000		NO	22.23		0.644	22.23
200	2... Total Di-PCBs				0.771	5.570		0.00		0.000		NO	10.16		11.4	13.79
201	2... 2nd Function Tri-PCBs				1.02	5.570		0.00		0.000		NO	16.47	-135.27	1.98	16.47

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Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

*GRB 05/04/2020*

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
202	2... 3rd Function Tri-PCBs				0.709	5.576	5.051	0.00	0.000		NO	116.8		5.81	116.8
203	2... Total Tetra-PCBs				0.969	5.570		0.00	0.000		NO	503.4		7.61	506.7
204	2... 3rd Function Penta-PCBs				1.26	5.570		0.00	0.000		NO	612.5	650.51 -	6.03	615.5
205	2... 4th Function Penta-PCBs				0.859	5.570		0.00	0.000		NO	38.01		1.05	38.38
206	2... 3rd Function Hexa-PCBs				0.911	5.570		0.00	0.000		NO	246.0	740.4 -	1.83	246.0
207	2... 4th Function Hexa-PCBs				0.933	5.570		0.00	0.000		NO	494.4		6.27	505.4
208	2... Total Hepta-PCBs				1.31	5.570		0.00	0.000		NO	516.2		4.64	516.2
209	2... 4th Function Octa-PCBs				0.922	5.570		0.00	0.000		NO	85.72	128.81 -	0.897	85.72
210	2... 5th Function Octa-PCBs				0.947	5.570		0.00	0.000		NO	43.09		0.638	43.09
211	2... Total Nona-PCBs				0.900	5.570		0.00	0.000		NO	24.32		0.471	24.32
212	2... Deca-CB				0.956	5.570		0.00	0.000		NO	16.91		0.100	16.91
213	2... Total PCBs														

*653.88 -*  
*751.4 -*  
*128.81 -*



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Method: Untitled 23 Apr 2020 11:56:31

Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

## Total Mono-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-1	15.58	15.59	3.286e4	1.122e4	2.001e3	6.380e2	3.14	NO	2.639e3	4.3578	4.3580	0.187
2	PCB-2	17.97	17.96	6.186e4	2.135e4	4.131e3	1.414e3	2.92	NO	5.545e3	9.7971	9.7970	0.234
3	PCB-3	18.21	18.20	5.162e4	1.443e4	3.712e3	1.100e3	3.38	NO	4.812e3	8.0783	8.0780	0.222

## Total Di-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-4/10	19.61	19.53	8.996e3	7.371e3	5.729e2	5.672e2	1.01	YES	1.140e3	0.00000	2.5870	0.560
2	PCB-6	22.04	22.04	5.967e3	5.062e3	4.336e2	2.601e2	1.67	NO	6.936e2	1.4339	1.4340	0.475
3	PCB-5/8	22.45	22.45	2.793e4	2.029e4	2.478e3	1.699e3	1.46	NO	4.177e3	8.7242	8.7240	0.480
4	PCB-15	25.92	25.93	1.197e4	6.077e3	4.166e2	1.978e2	2.11	YES	6.145e2	0.00000	1.0460	2.31

## 2nd Function Tri-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-24/27	26.24	26.27	6.539e3	7.051e3	4.475e2	4.956e2	0.90	NO	9.431e2	1.6772	1.6770	0.209
2	PCB-16/32	26.77	26.77	4.022e4	3.474e4	3.888e3	3.473e3	1.12	NO	7.361e3	14.793	14.793	0.236

## 3rd Function Tri-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-26	28.11	28.13	1.242e4	1.345e4	9.081e2	1.007e3	0.90	NO	1.915e3	4.7486	4.7490	0.395
2	PCB-25	28.29	28.29	7.196e3	7.175e3	5.880e2	6.052e2	0.97	NO	1.193e3	3.0311	3.0310	0.405
3	PCB-31	28.65	28.65	1.118e5	1.106e5	8.459e3	8.441e3	1.00	NO	1.690e4	37.252	37.252	0.351
4	PCB-28	28.76	28.74	1.030e5	1.008e5	7.008e3	7.001e3	1.00	NO	1.401e4	29.862	29.862	0.340
5	PCB-20/21/33	29.37	29.41	5.000e4	5.022e4	4.242e3	4.175e3	1.02	NO	8.417e3	20.782	20.782	0.394
6	PCB-22	29.82	29.82	2.736e4	3.108e4	2.041e3	2.281e3	0.89	NO	4.322e3	9.7565	9.7570	0.360
7	PCB-37	32.81	32.83	2.382e4	2.551e4	2.302e3	2.448e3	0.94	NO	4.750e3	11.391	11.391	0.463

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ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

Total Tetra-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-53	29.44	29.45	1.461e4	1.810e4	1.146e3	1.420e3	0.81	NO	2.566e3	7.3392	7.3390	0.270
2	PCB-51	29.79	29.80	4.670e3	6.130e3	3.371e2	4.562e2	0.74	NO	7.933e2	2.0705	2.0700	0.247
3	PCB-45	30.23	30.25	1.303e4	1.686e4	1.019e3	1.308e3	0.78	NO	2.327e3	8.1463	8.1460	0.331
4	PCB-46	30.72	30.73	5.810e3	8.028e3	4.422e2	5.979e2	0.74	NO	1.040e3	3.7576	3.7580	0.341
5	PCB-52/69	31.23	31.21	1.618e5	2.276e5	1.318e4	1.797e4	0.73	NO	3.115e4	76.386	76.386	0.232
6	PCB-43/49	31.53	31.53	8.971e4	1.155e5	7.460e3	9.548e3	0.78	NO	1.701e4	49.650	49.650	0.276
7	PCB-47	31.74	31.74	3.007e4	3.692e4	2.557e3	3.303e3	0.77	NO	5.861e3	16.967	16.967	0.287
8	PCB-48/75	31.85	31.86	2.142e4	2.884e4	1.859e3	2.461e3	0.75	NO	4.320e3	10.383	10.383	0.238
9	PCB-44	32.55	32.63	7.533e4	1.015e5	6.723e3	9.073e3	0.74	NO	1.580e4	53.663	53.663	0.337
10	PCB-42/59	32.78	32.89	2.624e4	3.856e4	2.545e3	3.492e3	0.73	NO	6.037e3	15.585	15.585	0.256
11	PCB-41/64/71/72	33.37	33.47	9.646e4	1.224e5	7.199e3	9.269e3	0.78	NO	1.647e4	37.531	37.531	0.226
12	PCB-68	33.65	33.67	1.201e3	1.369e3	9.631e1	1.263e2	0.76	NO	2.226e2	0.49632	0.49600	0.221
13	PCB-40	33.86	33.86	8.748e3	1.226e4	6.947e2	8.815e2	0.79	NO	1.576e3	7.1641	7.1640	0.451
14	PCB-57	34.21	34.25	9.520e2	1.173e3	9.354e1	1.115e2	0.84	NO	2.050e2	0.45999	0.46000	0.198
15	PCB-67	34.53	34.58	4.418e3	5.567e3	3.359e2	4.517e2	0.74	NO	7.876e2	1.8528	1.8530	0.208
16	PCB-58	34.66	34.69	8.930e2	1.412e3	7.033e1	1.203e2	0.58	YES	1.907e2	0.00000	0.35600	0.194
17	PCB-63	34.81	34.84	8.078e3	9.098e3	6.146e2	6.613e2	0.93	YES	1.276e3	0.00000	2.9070	0.219
18	PCB-74	35.10	35.12	6.651e4	8.451e4	4.736e3	6.153e3	0.77	NO	1.089e4	24.557	24.557	0.199
19	PCB-61/70	35.33	35.33	1.963e5	2.508e5	1.488e4	1.906e4	0.78	NO	3.394e4	81.272	81.272	0.211
20	PCB-76/66	35.51	35.53	1.523e5	1.920e5	1.181e4	1.516e4	0.78	NO	2.697e4	59.963	59.963	0.196
21	PCB-55	36.06	36.07	1.968e3	2.591e3	1.905e2	2.320e2	0.82	NO	4.225e2	0.82959	0.83000	0.180
22	PCB-56/60	36.56	36.57	9.198e4	1.185e5	7.165e3	9.282e3	0.77	NO	1.645e4	36.263	36.263	0.202
23	PCB-79	37.69	37.69	3.099e3	5.281e3	3.056e2	3.929e2	0.78	NO	6.985e2	1.3602	1.3600	0.178
24	PCB-81	38.92	38.95	4.708e3	7.090e3	3.725e2	4.903e2	0.76	NO	8.628e2	2.0245	2.0250	0.223
25	PCB-77	39.53	39.53	1.387e4	1.649e4	1.205e3	1.377e3	0.88	NO	2.582e3	5.6768	5.6770	0.210

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3rd Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-103	34.31	34.26	3.877e3	2.313e3	2.948e2	2.301e2	1.28	YES	5.249e2	0.00000	1.7620	0.274
2	PCB-95/98/102	35.56	35.62	2.138e5	1.332e5	1.677e4	1.053e4	1.59	NO	2.730e4	84.850	84.850	0.202
3	PCB-88/91	36.01	36.03	2.756e4	1.612e4	2.283e3	1.275e3	1.79	NO	3.558e3	13.330	13.330	0.243
4	PCB-84/92	36.95	36.96	9.178e4	5.485e4	7.549e3	4.516e3	1.67	NO	1.207e4	47.482	47.482	0.262
5	PCB-89	37.15	37.15	3.055e3	2.281e3	2.686e2	1.895e2	1.42	NO	4.581e2	1.5851	1.5850	0.230
6	PCB-90/101	37.34	37.35	2.796e5	1.832e5	2.232e4	1.462e4	1.53	NO	3.693e4	131.20	131.20	0.236
7	PCB-113	37.60	37.58	1.393e3	9.780e2	5.564e1	3.810e1	1.46	NO	9.374e1	0.24758	0.24800	0.176
8	PCB-99	37.69	37.69	1.094e5	6.351e4	8.742e3	5.174e3	1.69	NO	1.392e4	43.071	43.071	0.206
9	PCB-119	38.17	38.17	7.140e3	5.241e3	5.737e2	3.916e2	1.47	NO	9.653e2	2.4072	2.4070	0.161
10	PCB-108/112	38.30	38.34	1.075e4	6.655e3	9.009e2	5.541e2	1.63	NO	1.455e3	4.3349	4.3350	0.192
11	PCB-97	38.68	38.67	6.445e4	3.907e4	5.193e3	3.019e3	1.72	NO	8.213e3	27.142	27.142	0.213
12	PCB-86	38.84	38.84	1.506e3	1.185e3	8.867e1	6.309e1	1.40	NO	1.518e2	0.57535	0.57500	0.244
13	PCB-87/117/125	38.95	38.97	9.795e4	5.328e4	7.742e3	4.492e3	1.72	NO	1.223e4	33.119	33.119	0.174
14	PCB-111/115	39.12	39.12	6.687e3	3.896e3	4.941e2	2.078e2	2.38	YES	7.020e2	0.00000	1.2170	0.147
15	PCB-85/116	39.22	39.23	3.792e4	2.335e4	3.060e3	1.822e3	1.68	NO	4.882e3	15.321	15.321	0.202
16	PCB-120	39.51	39.49	1.932e3	1.402e3	1.789e2	1.177e2	1.52	NO	2.966e2	0.64806	0.64800	0.141
17	PCB-110	39.66	39.64	3.223e5	1.925e5	2.518e4	1.545e4	1.63	NO	4.063e4	102.03	102.03	0.162
18	PCB-82	40.28	40.28	1.930e4	1.203e4	1.532e3	1.001e3	1.53	NO	2.533e3	10.975	10.975	0.296
19	PCB-124	40.98	40.98	8.814e3	5.220e3	9.103e2	6.355e2	1.43	NO	1.546e3	3.9520	3.9520	0.175
20	PCB-107/109	41.13	41.17	1.989e4	1.223e4	1.699e3	1.037e3	1.64	NO	2.736e3	7.1220	7.1220	0.178
21	PCB-123	41.30	41.32	3.727e3	2.337e3	3.052e2	1.805e2	1.69	NO	4.858e2	1.3813	1.3810	0.194
22	PCB-106/118	41.51	41.50	2.150e5	1.323e5	1.820e4	1.155e4	1.58	NO	2.975e4	81.713	81.713	0.191

4th Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-114	42.16	42.18	4.634e3	3.599e3	4.748e2	3.440e2	1.38	NO	8.188e2	2.5965	2.5970	0.195
2	PCB-122	42.29	42.29	3.118e3	2.309e3	2.400e2	1.560e2	1.54	NO	3.960e2	1.5012	1.5010	0.233
3	PCB-105	43.07	43.05	7.117e4	4.640e4	5.829e3	4.027e3	1.45	NO	9.856e3	32.973	32.973	0.212
4	PCB-127	43.41	43.37	8.940e2	8.830e2	7.158e1	6.994e1	1.02	YES	1.415e2	0.00000	0.37100	0.202
5	PCB-126	45.33	45.34	2.282e3	1.377e3	1.684e2	1.096e2	1.54	NO	2.780e2	0.93469	0.93500	0.213

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3rd Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-136	39.42	39.44	4.684e4	3.563e4	3.639e3	2.864e3	1.27	NO	6.503e3	26.233	26.233	0.124
2	PCB-154	40.05	40.05	3.727e3	2.708e3	3.143e2	2.258e2	1.39	NO	5.401e2	2.5449	2.5450	0.145
3	PCB-151	40.70	40.70	6.171e4	4.725e4	5.048e3	3.906e3	1.29	NO	8.953e3	50.349	50.349	0.173
4	PCB-135	40.93	40.93	2.880e4	2.571e4	2.436e3	2.073e3	1.18	NO	4.509e3	21.918	21.918	0.149
5	PCB-144	41.04	41.04	1.285e4	8.022e3	9.343e2	6.864e2	1.36	NO	1.621e3	8.7130	8.7130	0.165
6	PCB-147	41.17	41.17	3.663e3	2.894e3	2.626e2	1.951e2	1.35	NO	4.576e2	2.3581	2.3580	0.158
7	PCB-139/149	41.45	41.43	2.006e5	1.543e5	1.668e4	1.263e4	1.32	NO	2.931e4	132.97	132.97	0.139
8	PCB-140	41.63	41.63	1.294e3	1.203e3	8.700e1	8.053e1	1.08	NO	1.675e2	0.88503	0.88500	0.162

4th Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-134/143	42.10	42.10	1.502e4	1.054e4	1.235e3	8.608e2	1.43	YES	2.096e3	0.00000	8.4260	0.393
2	PCB-131/133	42.41	42.39	7.343e3	6.472e3	6.343e2	5.151e2	1.23	NO	1.149e3	4.8497	4.8500	0.379
3	PCB-146/165	42.81	42.80	5.072e4	4.208e4	4.206e3	3.486e3	1.21	NO	7.692e3	26.258	26.258	0.307
4	PCB-132/161	43.05	43.07	9.576e4	7.463e4	7.556e3	5.969e3	1.27	NO	1.352e4	42.535	42.535	0.283
5	PCB-153	43.24	43.22	3.927e5	3.017e5	3.183e4	2.481e4	1.28	NO	5.665e4	161.55	161.55	0.256
6	PCB-141	43.96	43.98	6.904e4	5.115e4	5.724e3	4.270e3	1.34	NO	9.994e3	35.566	35.566	0.322
7	PCB-137	44.36	44.36	8.259e3	5.542e3	6.852e2	5.159e2	1.33	NO	1.201e3	4.5432	4.5430	0.342
8	PCB-130	44.45	44.47	1.276e4	1.160e4	1.075e3	9.162e2	1.17	NO	1.991e3	8.5620	8.5620	0.389
9	PCB-138/163/164	44.85	44.85	2.986e5	2.425e5	2.912e4	2.321e4	1.25	NO	5.233e4	149.45	149.45	0.247
10	PCB-158/160	45.10	45.08	3.347e4	2.681e4	2.843e3	2.303e3	1.23	NO	5.146e3	16.118	16.118	0.271
11	PCB-129	45.36	45.34	8.379e3	7.666e3	6.752e2	5.946e2	1.13	NO	1.270e3	5.6346	5.6350	0.384
12	PCB-166	45.82	45.82	1.569e3	1.223e3	1.071e2	9.368e1	1.14	NO	2.008e2	0.58916	0.58900	0.270
13	PCB-159	46.16	46.21	7.034e3	5.665e3	5.918e2	4.676e2	1.27	NO	1.059e3	2.8280	2.8280	0.246
14	PCB-128/162	46.46	46.42	3.468e4	2.666e4	2.895e3	2.258e3	1.28	NO	5.153e3	17.743	17.743	0.317
15	PCB-167	46.86	46.86	1.125e4	8.712e3	8.494e2	7.115e2	1.19	NO	1.561e3	4.5916	4.5920	0.268
16	PCB-156	48.17	48.17	2.972e4	2.199e4	2.554e3	1.960e3	1.30	NO	4.514e3	13.546	13.546	0.272
17	PCB-157	48.45	48.45	5.081e3	3.201e3	4.101e2	2.682e2	1.53	YES	6.783e2	0.00000	1.9760	0.307
18	PCB-169	50.69	50.72	1.428e3	9.320e2	1.532e2	7.595e1	2.02	YES	2.291e2	0.00000	0.62200	0.341

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Total Hepta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-179	44.08	44.09	6.397e4	6.184e4	5.274e3	5.108e3	1.03	NO	1.038e4	28.518	28.518	0.150
2	PCB-176	44.56	44.57	2.066e4	1.729e4	1.689e3	1.509e3	1.12	NO	3.198e3	8.9710	8.9710	0.153
3	PCB-178	45.69	45.70	1.843e4	1.868e4	1.624e3	1.600e3	1.01	NO	3.224e3	12.446	12.446	0.210
4	PCB-175	46.04	46.04	3.220e3	3.558e3	2.738e2	2.778e2	0.99	NO	5.515e2	2.1380	2.1380	0.211
5	PCB-182/187	46.23	46.21	1.321e5	1.296e5	1.081e4	1.035e4	1.04	NO	2.116e4	69.775	69.775	0.180
6	PCB-183	46.57	46.56	6.373e4	6.481e4	5.050e3	5.115e3	0.99	NO	1.017e4	35.909	35.909	0.192
7	PCB-185	47.24	47.22	1.111e4	1.252e4	9.924e2	9.812e2	1.01	NO	1.974e3	8.2166	8.2170	0.227
8	PCB-174	47.62	47.60	9.535e4	9.251e4	8.123e3	7.776e3	1.04	NO	1.590e4	69.653	69.653	0.239
9	PCB-181	47.71	47.69	3.765e3	2.785e3	1.338e2	1.292e2	1.04	NO	2.631e2	0.99918	0.99900	0.207
10	PCB-177	47.88	47.88	4.744e4	4.720e4	3.929e3	3.962e3	0.99	NO	7.891e3	35.717	35.717	0.247
11	PCB-171	48.19	48.17	2.522e4	2.169e4	2.130e3	1.884e3	1.13	NO	4.014e3	16.983	16.983	0.231
12	PCB-173	48.62	48.60	1.863e3	1.455e3	1.589e2	1.430e2	1.11	NO	3.019e2	1.4676	1.4680	0.265
13	PCB-172	49.08	49.08	1.291e4	1.334e4	1.051e3	1.083e3	0.97	NO	2.134e3	8.9345	8.9340	0.228
14	PCB-180	49.49	49.49	2.120e5	2.067e5	1.726e4	1.718e4	1.00	NO	3.444e4	140.39	140.39	0.222
15	PCB-193	49.70	49.70	1.011e4	1.154e4	9.041e2	9.858e2	0.92	NO	1.890e3	6.8221	6.8220	0.197
16	PCB-191	49.97	49.97	4.000e3	5.482e3	3.847e2	4.245e2	0.91	NO	8.092e2	2.8362	2.8360	0.191
17	PCB-170	51.14	51.14	7.048e4	6.423e4	5.762e3	5.220e3	1.10	NO	1.098e4	53.139	53.139	0.267
18	PCB-190	51.35	51.35	1.689e4	1.808e4	1.419e3	1.517e3	0.94	NO	2.937e3	11.216	11.216	0.211
19	PCB-189	52.94	52.94	3.393e3	3.595e3	2.597e2	2.555e2	1.02	NO	5.151e2	2.0664	2.0660	0.195

4th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-202	48.37	48.39	8.846e3	1.133e4	7.960e2	9.894e2	0.81	NO	1.785e3	6.4628	6.4630	0.0929
2	PCB-201	48.88	48.87	6.572e3	6.284e3	5.597e2	5.598e2	1.00	NO	1.120e3	4.6665	4.6660	0.107
3	PCB-197	49.35	49.34	2.401e3	2.096e3	1.666e2	1.733e2	0.96	NO	3.399e2	1.3096	1.3100	0.0989
4	PCB-200	50.28	50.27	6.938e3	7.544e3	5.335e2	6.042e2	0.88	NO	1.138e3	4.5994	4.5990	0.104
5	PCB-198	51.85	51.88	1.991e3	2.687e3	1.485e2	1.827e2	0.81	NO	3.313e2	1.7376	1.7380	0.135
6	PCB-199	52.00	51.99	3.773e4	4.158e4	2.825e3	3.345e3	0.84	NO	6.170e3	33.260	33.260	0.138
7	PCB-196/203	52.30	52.31	5.021e4	4.710e4	3.556e3	3.481e3	1.02	NO	7.037e3	33.681	33.681	0.123

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5th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-195	53.63	53.64	1.361e4	1.504e4	8.348e2	9.637e2	0.87	NO	1.798e3	13.673	13.673	0.257
2	PCB-194	54.58	54.58	3.601e4	4.342e4	2.149e3	2.464e3	0.87	NO	4.613e3	27.734	27.734	0.204
3	PCB-205	54.85	54.86	2.780e3	2.416e3	1.505e2	1.718e2	0.88	NO	3.223e2	1.6878	1.6880	0.177

Total Nona-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-208	53.80	53.79	1.222e4	8.243e3	8.101e2	5.670e2	1.43	NO	1.377e3	5.6981	5.6980	0.131
2	PCB-207	54.14	54.14	4.532e3	3.373e3	2.874e2	1.887e2	1.52	NO	4.760e2	2.1115	2.1110	0.140
3	PCB-206	56.11	56.12	2.422e4	1.848e4	1.376e3	1.044e3	1.32	NO	2.420e3	16.513	16.513	0.200

Deca-CB

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-209	57.35	57.35	2.445e4	2.139e4	1.529e3	1.254e3	1.22	NO	2.783e3	16.915	16.915	0.100

Total PCBs

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

Total Mono-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-1	15.77	15.56	1.427e7	4.509e6	8.445e5	2.636e5	3.20	NO	1.108e6	8403.8		3.02
2	13C-PCB-3	18.46	18.19	1.209e7	3.703e6	8.370e5	2.553e5	3.28	NO	1.092e6	8063.2		2.94

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**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-4	19.52	19.52	7.679e6	4.869e6	4.923e5	3.103e5	1.59	NO	8.026e5	9358.5		1.03
2	13C-PCB-9	21.34	21.34	1.110e7	7.067e6	8.039e5	5.099e5	1.58	NO	1.314e6	9996.2		0.673
3	13C-PCB-11	25.19	25.17	2.135e6	1.347e6	7.537e5	4.724e5	1.60	NO	1.226e6	9689.4		0.699
4	13C-PCB-15	25.92	25.92	4.557e6	2.913e6	1.593e5	1.021e5	1.56	NO	2.614e5	1980.3		0.670

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-19	23.75	23.75	3.132e6	2.879e6	3.401e5	3.152e5	1.08	NO	6.553e5	9389.8		12.3
2	13C-PCB-32	26.75	26.75	9.123e6	8.637e6	5.652e5	5.302e5	1.07	NO	1.095e6	10920		8.53

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.59	28.63	8.501e6	8.275e6	5.912e5	5.784e5	1.02	NO	1.170e6	1980.3		2.83
2	13C-PCB-28	28.72	28.72	7.849e6	7.635e6	6.058e5	5.935e5	1.02	NO	1.199e6	1851.6		2.58
3	13C-PCB-37	32.69	32.79	5.962e6	5.733e6	5.574e5	5.350e5	1.04	NO	1.092e6	1881.7		2.88

**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.54	27.58	5.390e6	6.788e6	4.042e5	5.097e5	0.79	NO	9.139e5	1767.6		1.03
2	13C-PCB-52	31.18	31.19	4.010e6	5.131e6	3.246e5	4.176e5	0.78	NO	7.422e5	1797.2		1.29
3	13C-PCB-47	31.70	31.72	4.241e6	5.282e6	3.606e5	4.531e5	0.80	NO	8.137e5	1859.3		1.22
4	13C-PCB-70	35.30	35.31	5.003e6	6.331e6	3.784e5	4.760e5	0.80	NO	8.545e5	1756.5		1.10
5	13C-PCB-80	35.74	35.74	5.421e6	6.821e6	4.257e5	5.380e5	0.79	NO	9.637e5	1909.0		1.06
6	13C-PCB-60	36.54	36.55	5.341e6	6.727e6	4.238e5	5.334e5	0.80	NO	9.572e5	1980.3		1.10
7	13C-PCB-79	37.64	37.65	5.792e6	7.254e6	4.616e5	5.783e5	0.80	NO	1.040e6	1994.9		1.02
8	13C-PCB-81	38.92	38.90	4.811e6	6.055e6	3.921e5	4.929e5	0.80	NO	8.850e5	1879.6		1.13
9	13C-PCB-77	39.51	39.51	4.576e6	5.756e6	3.739e5	4.704e5	0.80	NO	8.444e5	1837.5		1.16

Dataset: U:\VG12.PRO\Results\200426R2\200426R2-3B.qld

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 Printed: Monday, May 04, 2020 12:01:16 Pacific Daylight Time

ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

3rd Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.33	32.42	4.327e6	2.687e6	3.894e5	2.411e5	1.62	NO	6.305e5	1740.9		0.529
2	13C-PCB-95	35.60	35.60	4.277e6	2.672e6	3.323e5	2.066e5	1.61	NO	5.389e5	1904.3		0.678
3	13C-PCB-101	37.32	37.33	4.000e6	2.478e6	3.188e5	1.963e5	1.62	NO	5.151e5	1865.4		0.694
4	13C-PCB-97	38.64	38.66	3.839e6	2.302e6	2.965e5	1.812e5	1.64	NO	4.777e5	2022.3		0.812
5	13C-PCB-111	39.10	39.10	5.028e6	3.037e6	4.097e5	2.516e5	1.63	NO	6.613e5	1980.3		0.574
6	13C-PCB-123	41.28	41.28	4.421e6	2.753e6	3.619e5	2.249e5	1.61	NO	5.868e5	1922.4		0.628
7	13C-PCB-118	41.47	41.49	4.414e6	2.701e6	3.676e5	2.252e5	1.63	NO	5.928e5	1848.0		0.598

4th Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.14	42.14	5.286e6	3.307e6	4.338e5	2.714e5	1.60	NO	7.052e5	1982.4		1.01
2	13C-PCB-105	43.03	43.03	5.043e6	3.210e6	4.265e5	2.696e5	1.58	NO	6.961e5	1765.8		0.910
3	13C-PCB-127	43.37	43.39	5.205e6	3.359e6	4.453e5	2.862e5	1.56	NO	7.315e5	1687.6		0.828
4	13C-PCB-126	45.31	45.32	4.453e6	2.809e6	3.769e5	2.354e5	1.60	NO	6.123e5	1768.0		1.04

4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.18	43.20	4.692e6	3.721e6	3.869e5	3.067e5	1.26	NO	6.936e5	1795.4		0.952
2	13C-PCB-141	43.94	43.94	3.901e6	3.025e6	3.232e5	2.503e5	1.29	NO	5.735e5	1901.3		1.22
3	13C-PCB-138	44.81	44.81	4.031e6	3.165e6	3.198e5	2.528e5	1.26	NO	5.727e5	1915.8		1.23
4	13C-PCB-159	46.13	46.14	4.420e6	3.527e6	3.730e5	2.967e5	1.26	NO	6.697e5	1912.6		1.05
5	13C-PCB-128	46.38	46.40	3.396e6	2.634e6	2.810e5	2.201e5	1.28	NO	5.011e5	1980.3		1.45
6	13C-PCB-167	46.83	46.84	4.329e6	3.414e6	3.615e5	2.835e5	1.27	NO	6.450e5	1843.3		1.05
7	13C-PCB-156	48.18	48.15	4.106e6	3.221e6	3.411e5	2.675e5	1.27	NO	6.086e5	1811.5		1.09
8	13C-PCB-157	48.44	48.43	4.042e6	3.180e6	3.457e5	2.707e5	1.28	NO	6.164e5	1786.8		1.07
9	13C-PCB-169	50.70	50.69	3.215e6	2.517e6	2.745e5	2.155e5	1.27	NO	4.900e5	1526.6		1.15



Dataset: U:\VG12.PRO\Results\200426R2\200426R2-3B.qld

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Printed: Monday, May 04, 2020 12:01:16 Pacific Daylight Time

ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

5th Function Octa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-194	54.57	54.56	2.767e6	3.119e6	1.604e5	1.802e5	0.89	NO	3.406e5	1963.5		1.91
2	13C-PCB-205	54.84	54.84	3.679e6	4.245e6	2.137e5	2.427e5	0.88	NO	4.564e5	1980.3		1.44

Dataset: U:\VG12.PRO\Results\200426R2\200426R2-3.qld

Last Altered: Monday, April 27, 2020 08:37:46 Pacific Daylight Time

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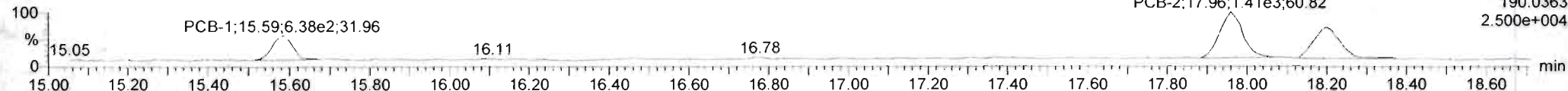
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PCB-1

200426R2\_3

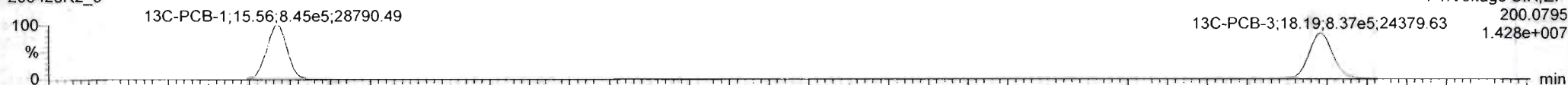


200426R2\_3



13C-PCB-1

200426R2\_3

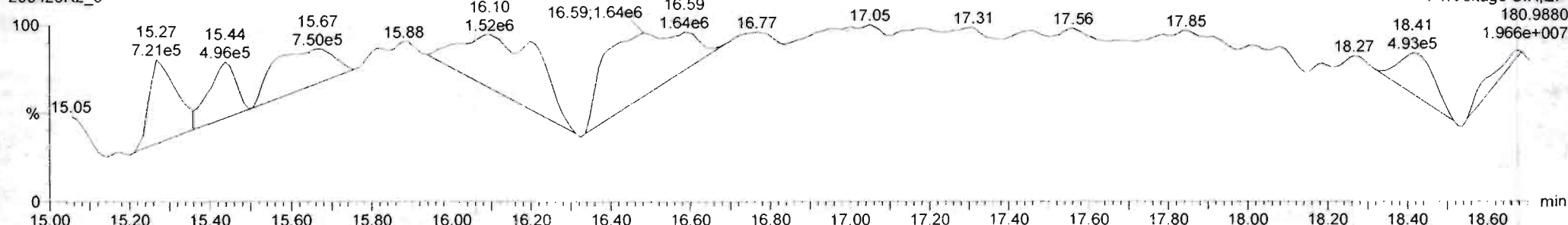


200426R2\_3



PFK1

200426R2\_3

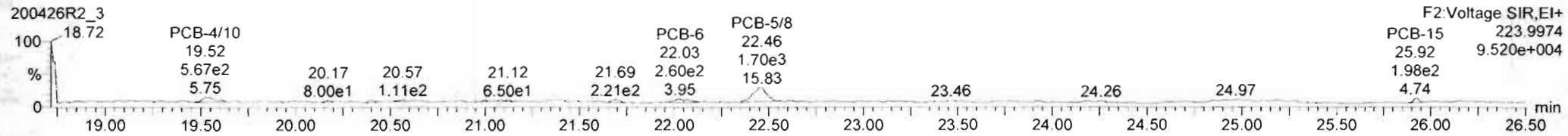
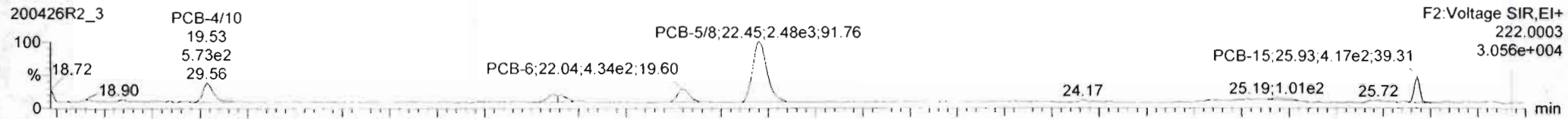


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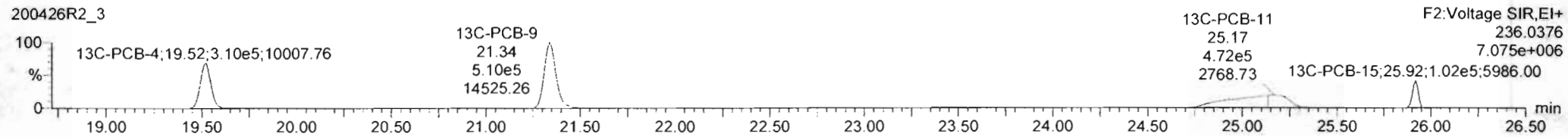
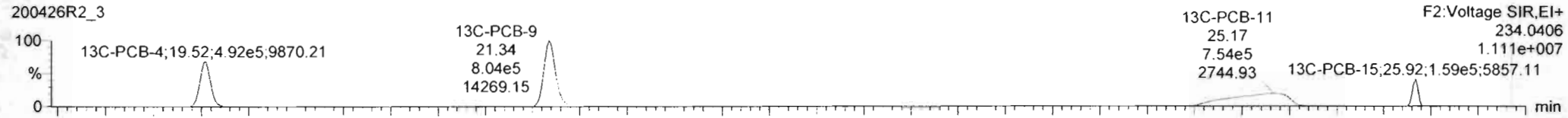
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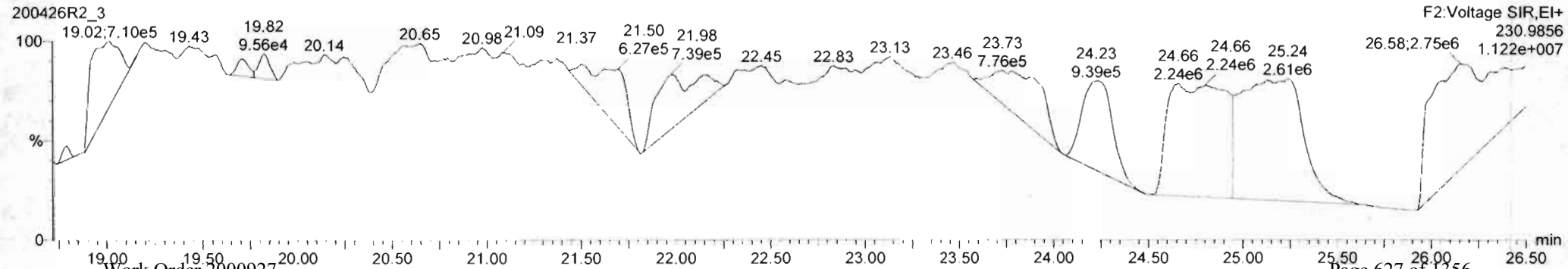
**PCB-4/10**



**13C-PCB-4**



**PFK2a**



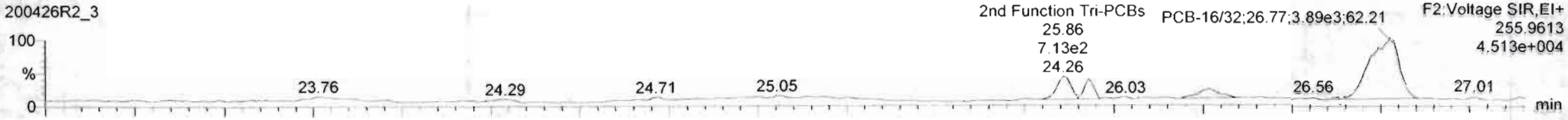
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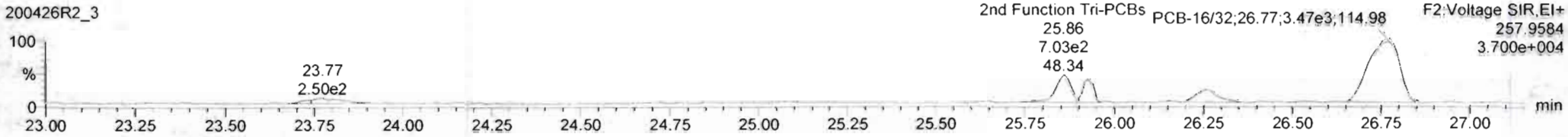
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**PCB-19**

200426R2\_3



200426R2\_3

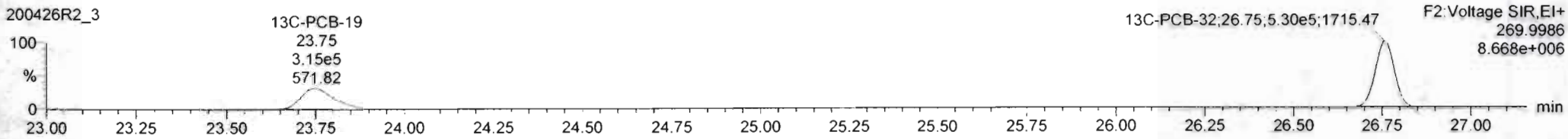


**13C-PCB-19**

200426R2\_3

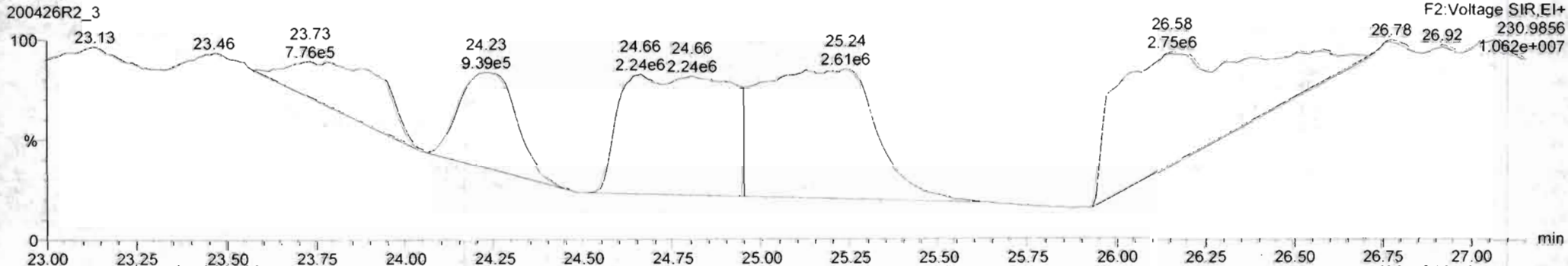


200426R2\_3



**PFK2b**

200426R2\_3

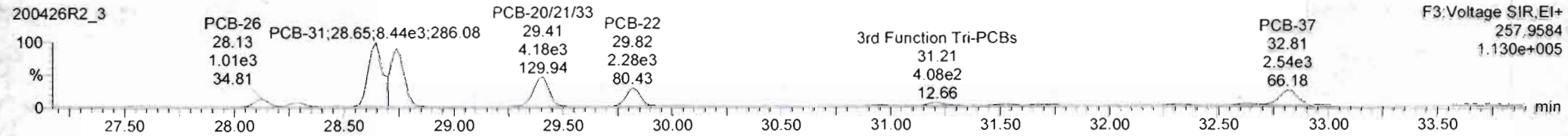


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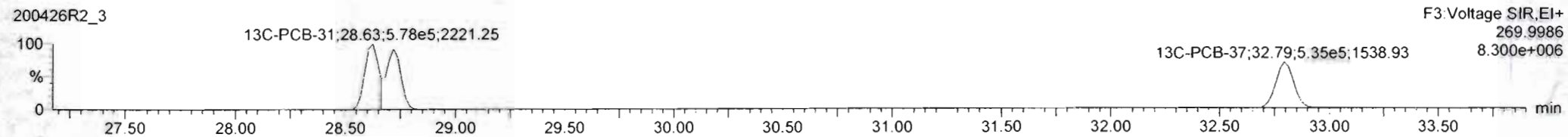
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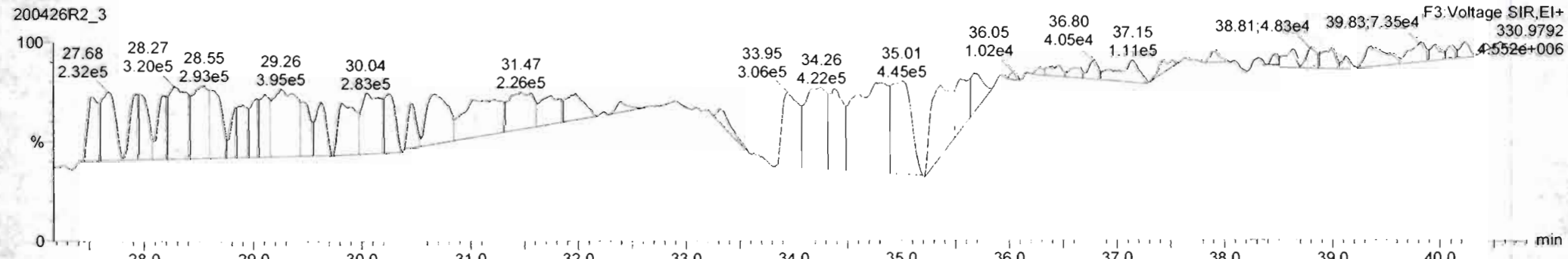
**PCB-34**



**13C-PCB-28**

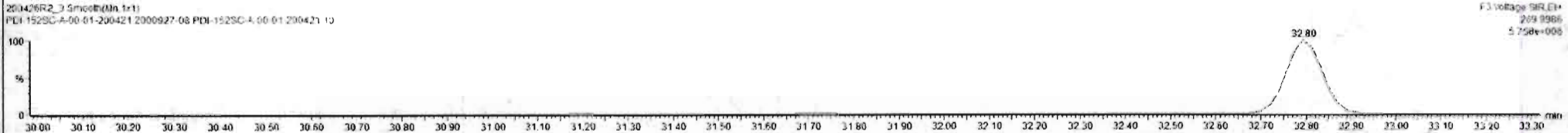
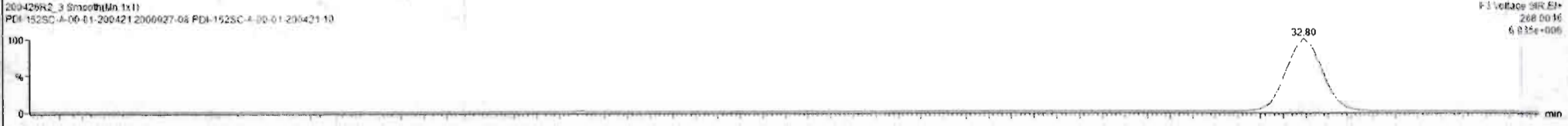
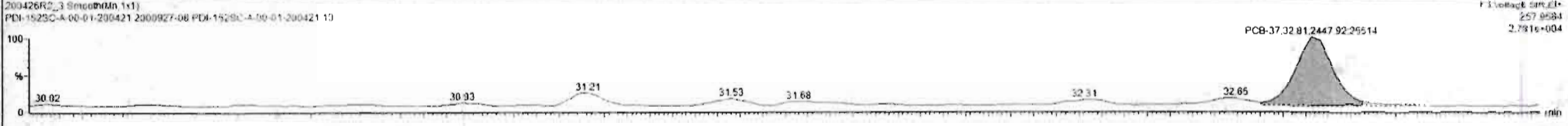
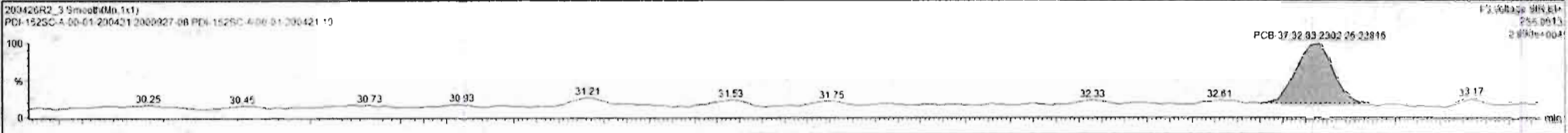


**PFK3a**



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
227	227 2nd Function Tri-PCBs				0.7082	5.570	0.00		0.000		NO	105.9		5.26	105.9
228	228 Total Tetra-PCBs				0.9689	5.570	0.00		0.000		NO	440.2		6.90	446.2

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	21 PCB-26	29.11	28.13	9.001e2	1.007e3	1.040	0.90	NO	4.3051	4.3051
2	22 PCB-25	26.29	26.29	5.500e2	6.052e3	1.040	0.97	NO	2.7481	2.7481
3	23 PCB-31	26.65	26.65	8.459e3	8.441e3	1.040	1.00	NO	33.774	33.774
4	24 PCB-28	28.76	28.74	7.008e3	7.001e3	1.040	1.00	NO	27.074	27.074
5	25 PCB-2021/03	29.37	29.41	4.242e3	4.175e3	1.040	1.02	NO	19.641	19.641
6	26 PCB-22	29.82	29.82	2.041e3	2.281e3	1.040	0.99	NO	8.8454	8.8454
7	31 PCB-37	32.80	32.83	2.302e3	2.446e3	1.040	0.94	NO	10.328	10.328



Vista Analytical Laboratory VG-11

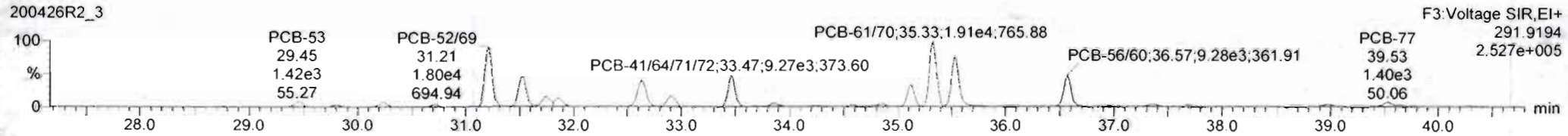
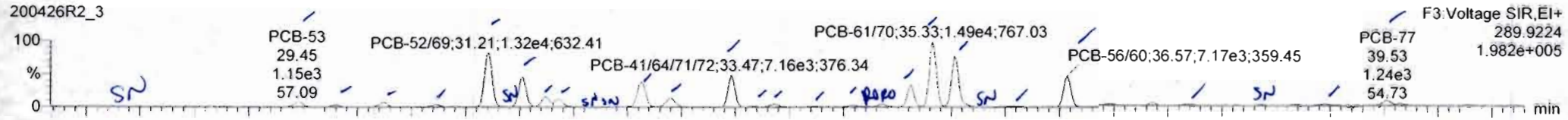
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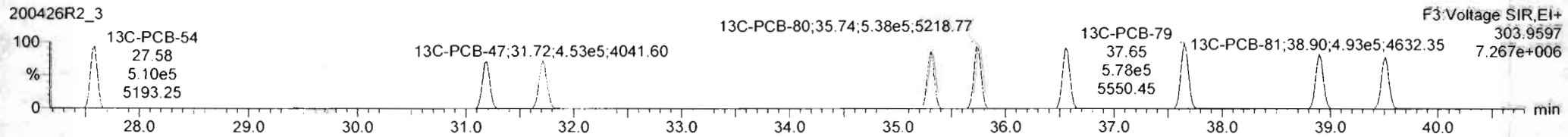
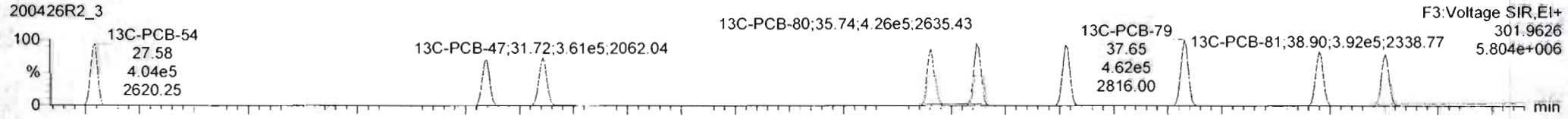
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Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

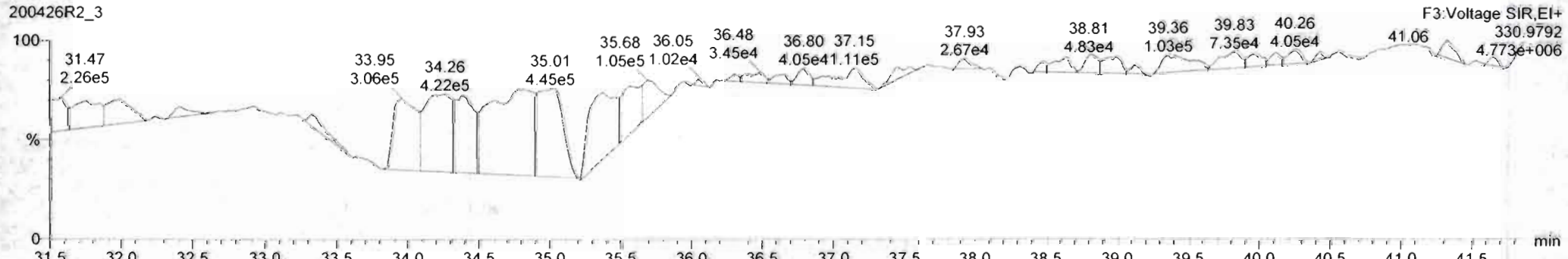
PCB-54



13C-PCB-54



PFK3b



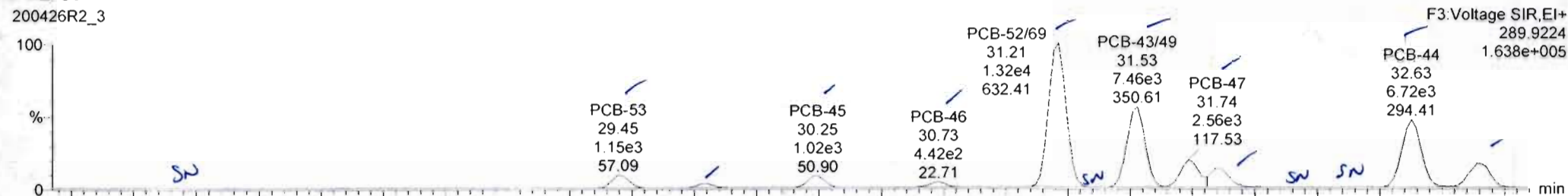
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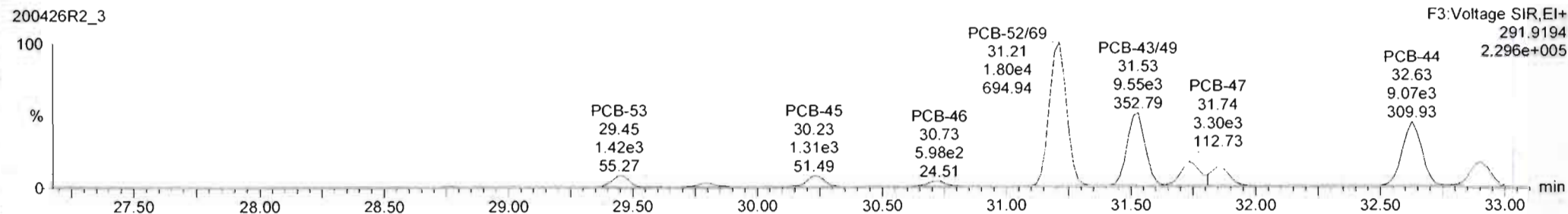
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**PCB-50**

200426R2\_3

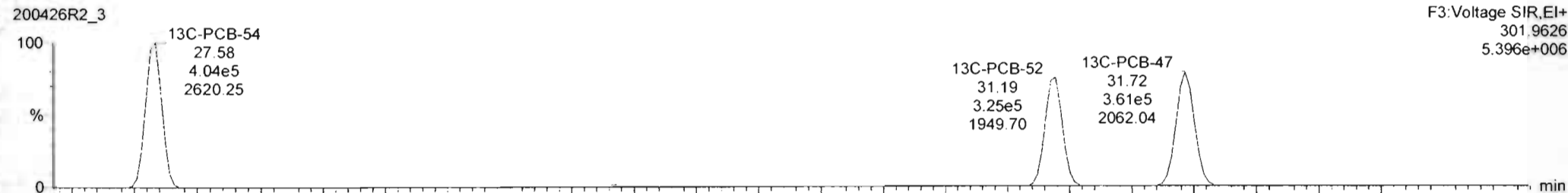


200426R2\_3

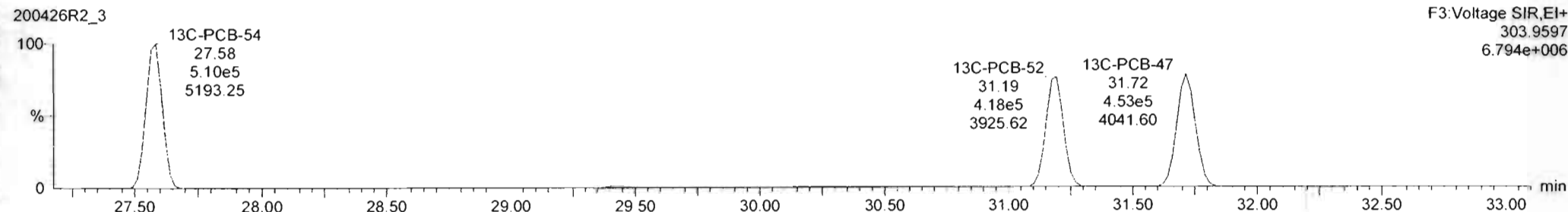


**13C-PCB-52**

200426R2\_3



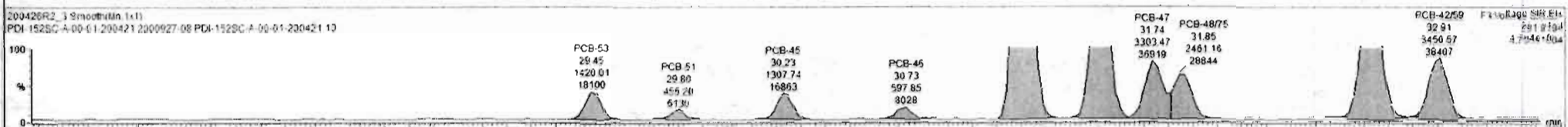
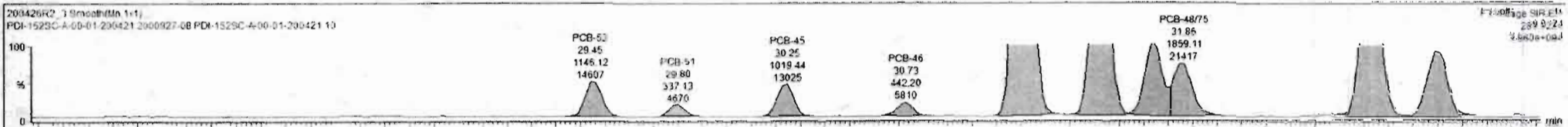
200426R2\_3





#	Name	Resp	RA	n/y	RRF	int/val	Pred RT	RT	Pred R	RRF	RRF Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				0.5689	5.570	0.00		0.000		NO	4542		6.50	460.2
229	229 3rd Function Penta-PCBs				1.2565	5.570	0.00		0.000		NO	5243		5.47	548.1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	34 PCB-53	29.44	29.45	1.146e3	1.420e3	0.770	0.81	NO	6.8540	6.6539
2	35 PCB-51	29.79	29.80	3.371e2	4.582e2	0.770	0.74	NO	1.6770	1.8771
3	36 PCB-45	30.23	30.25	1.019e3	1.308e3	0.770	0.78	NO	7.3860	7.3856
4	37 PCB-46	30.72	30.73	4.422e2	5.979e2	0.770	0.74	NO	3.4070	3.4067
5	38 PCB-52/69	31.23	31.21	1.318e4	1.797e4	0.770	0.73	NO	69.253	69.253
6	40 PCB-43/45	31.53	31.53	7.460e3	9.548e3	0.770	0.78	NO	45.014	45.014
7	41 PCB-47	31.74	31.74	2.557e3	3.302e3	0.770	0.77	NO	15.383	15.383
8	42 PCB-48/75	31.85	31.88	1.859e3	2.461e3	0.770	0.75	NO	9.4140	9.4136
9	45 PCB-44	32.55	32.83	6.723e3	9.073e3	0.770	0.74	NO	48.652	48.652
10	46 PCB-42/69	32.78	32.86	2.545e3	3.451e3	0.770	0.74	NO	14.033	14.033



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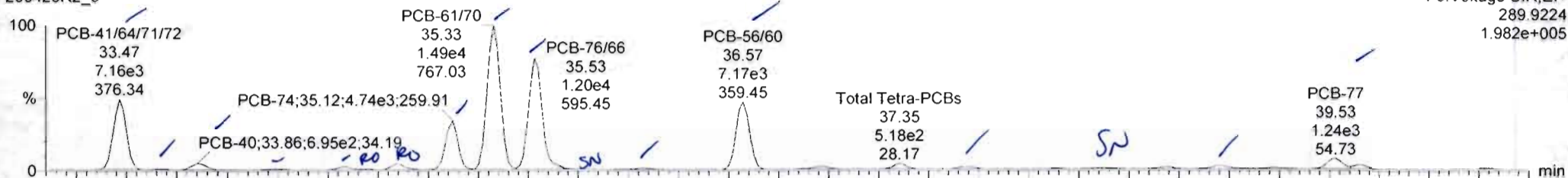
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**PCB-68**

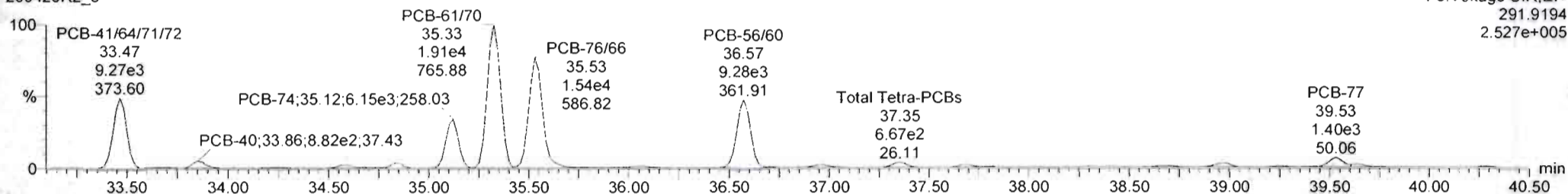
200426R2\_3

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1.982e+005



200426R2\_3

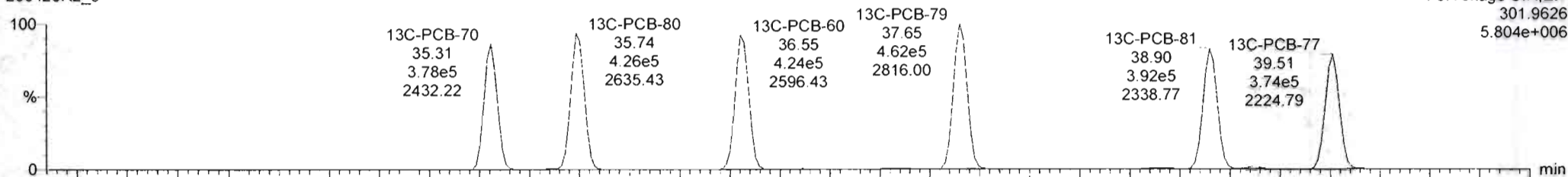
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**13C-PCB-60**

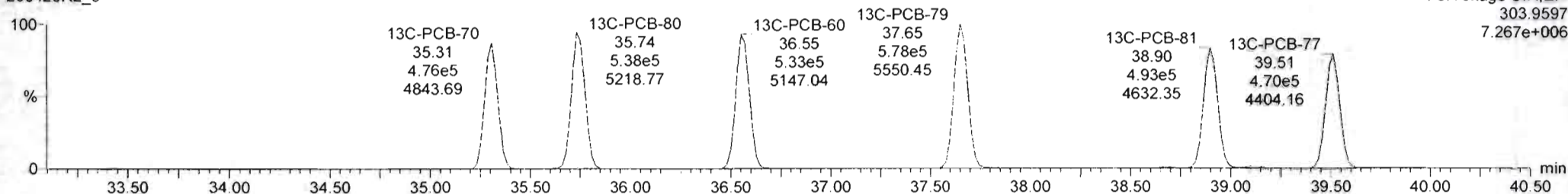
200426R2\_3

F3:Voltage SIR,EI+  
301.9626  
5.804e+006



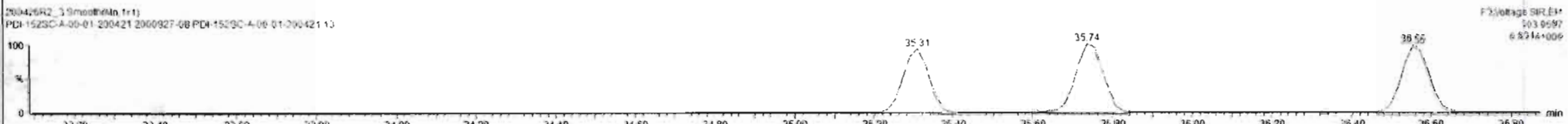
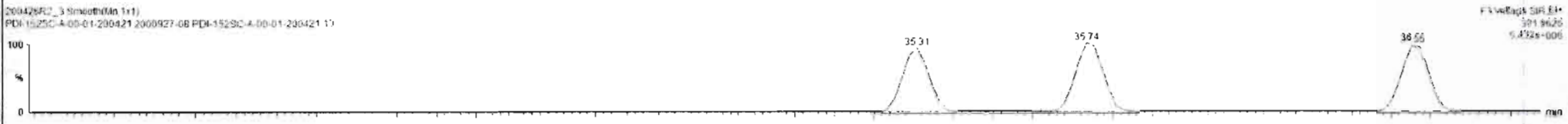
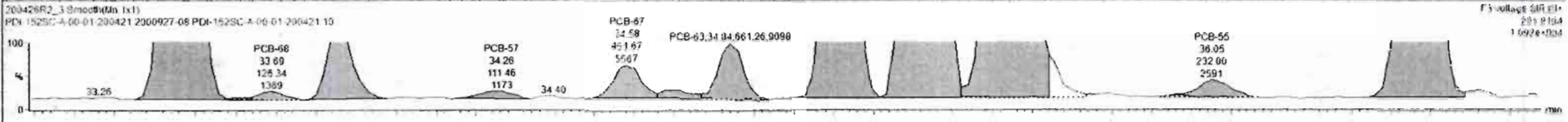
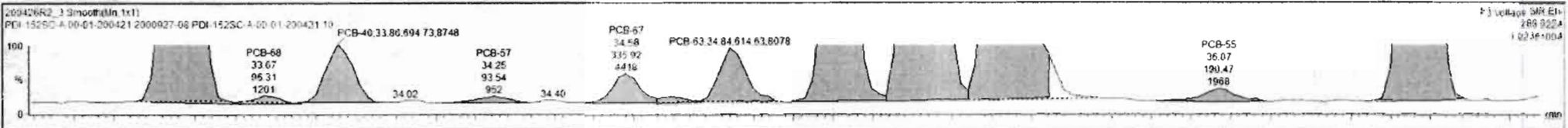
200426R2\_3

F3:Voltage SIR,EI+  
303.9597  
7.267e+006



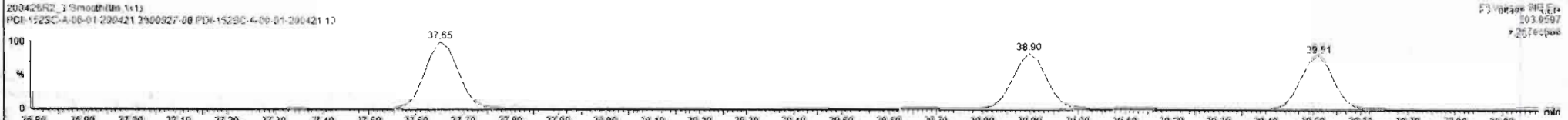
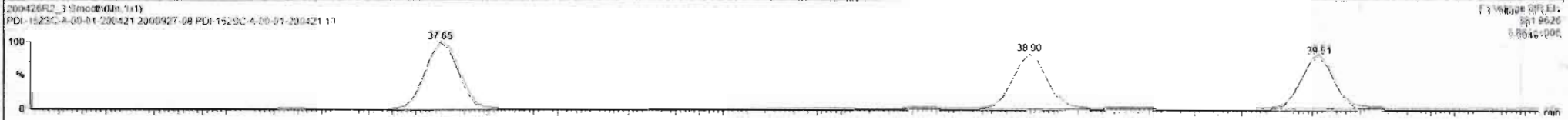
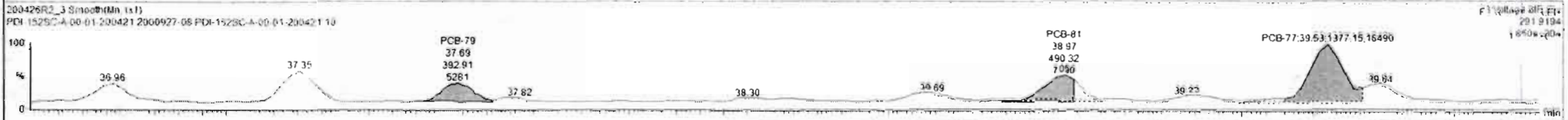
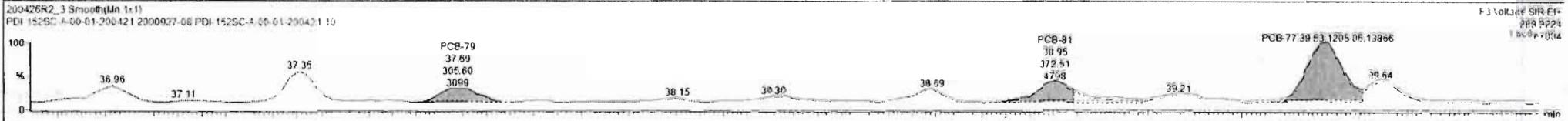
#	Name	Resp	RA	nly	RRF	wVvol	Pred.RT	RT	Pred R..	RRT	RRT Fat	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				0.9689	5.570	0.00		0.000		NO	454.6		5.90	459.7
229	3rd Function Penta-PCBs				1.2565	5.570	0.00		0.000		NO	524.3		5.17	548.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc
11	47 PCB-41547172	33.37	33.47	7.199e3	9.269e3	0.770	0.78	NO	34.027	34.027
12	49 PCB-68	33.85	33.57	9.631e1	1.263e2	0.770	0.75	NO	0.44597	0.44597
13	49 PCB-40	33.85	33.86	6.947e2	8.815e2	0.770	0.79	NO	6.4951	6.4951
14	50 PCB-57	34.21	34.25	9.354e1	1.115e2	0.770	0.84	NO	0.41704	0.41704
15	51 PCB-67	34.53	34.56	2.359e2	4.517e2	0.770	0.74	NO	1.6790	1.6790
16	52 PCB-58	34.66	34.89	7.833e1	1.203e2	0.770	0.58	YES	0.32237	0.00000
17	53 PCB-63	34.81	34.84	6.146e2	6.617e2	0.770	0.93	YES	2.6360	0.90000
18	54 PCB-74	35.10	35.12	4.776e3	6.153e3	0.770	0.77	NO	22.384	22.264
19	55 PCB-6170	35.33	35.33	1.488e4	1.906e4	0.770	0.78	NO	73.682	73.682
20	56 PCB-7866	35.51	35.53	1.181e4	1.516e4	0.770	0.78	NO	54.363	54.363
21	56 PCB-55	36.06	36.07	1.965e2	2.326e2	0.770	0.82	NO	0.75212	0.75212
22	56 PCB-5660	36.56	36.57	7.165e2	9.282e3	0.770	0.77	NO	32.677	32.677



#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Cooc	%Rec	DL	EMPC
229	Total Tetra-PCBs				0.9629	5.570	0.00		0.000		NO		456.4	6.80	459.4
229	3rd Function Penta-PCBs				1.2565	5.570	0.00		0.000		NO	524.3		5.47	548.1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc
14	50 PCB-57	34.21	34.25	9.354e1	1.115e2	0.770	0.84	NO	0.41784	0.41704
15	51 PCB-57	34.53	34.58	3.359e2	4.517e2	0.770	0.74	NO	1.6798	1.6798
16	52 PCB-58	34.86	34.89	7.033e1	1.202e2	0.770	0.58	YES	0.32237	0.00000
17	53 PCB-63	34.81	34.84	8.148e2	6.613e2	0.770	0.93	YES	2.6380	0.00000
18	54 PCB-74	25.10	25.12	4.736e3	8.153e3	0.770	0.77	NO	22.264	22.264
19	55 PCB-81/70	35.33	35.33	1.488e4	1.906e4	0.770	0.78	NO	73.682	73.682
20	56 PCB-76/68	35.51	35.52	1.181e4	1.516e4	0.770	0.78	NO	54.363	54.363
21	58 PCB-55	36.08	36.07	1.905e2	2.320e2	0.770	0.82	NO	0.75212	0.75212
22	59 PCB-56/50	36.56	36.57	7.165e3	9.282e3	0.770	0.77	NO	32.877	32.877
23	60 PCB-79	37.69	37.69	3.056e2	3.929e2	0.770	0.78	NO	1.2332	1.2332
24	62 PCB-81	38.92	38.95	2.725e2	4.903e2	0.770	0.78	NO	1.6355	1.6355
25	63 PCB-77	39.53	39.53	1.285e3	1.377e3	0.770	0.88	NO	5.1467	5.1467

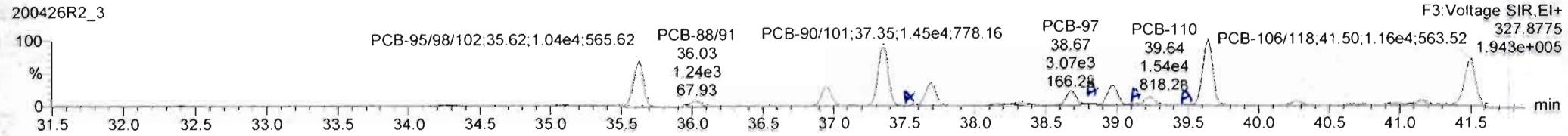
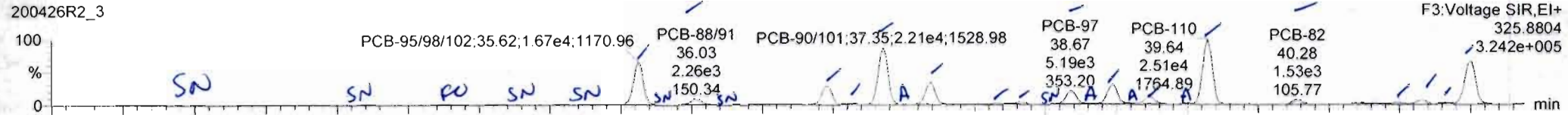


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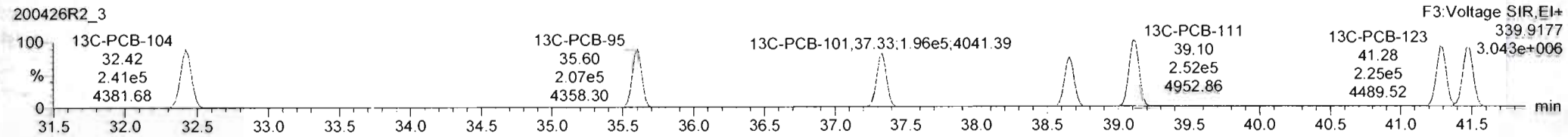
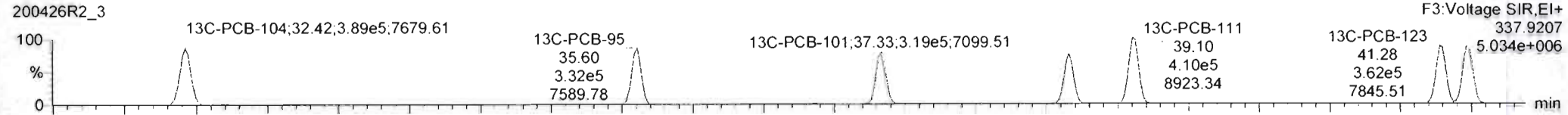
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 Printed: Monday, April 27, 2020 09:51:49 Pacific Daylight Time

Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

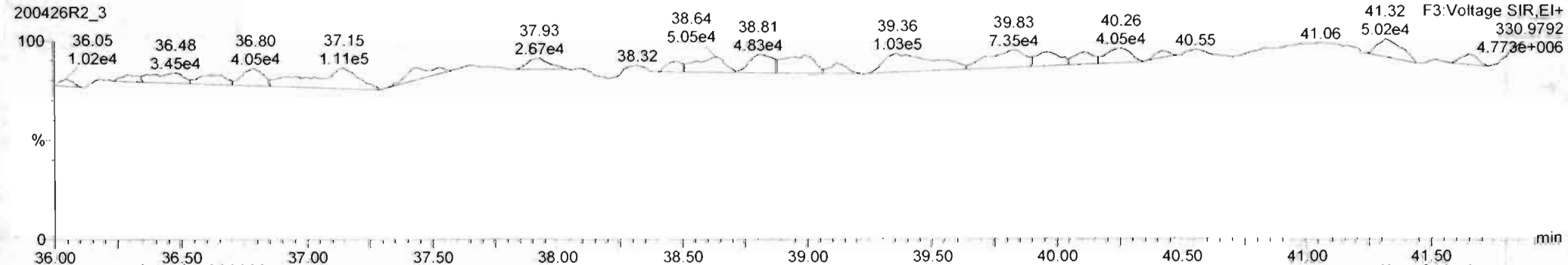
**PCB-104**



**13C-PCB-104**



**PFK3c**



Dataset: U:\VG12.PRO\Results\200426R2\200426R2-3.qld

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Printed: Monday, April 27, 2020 09:51:49 Pacific Daylight Time

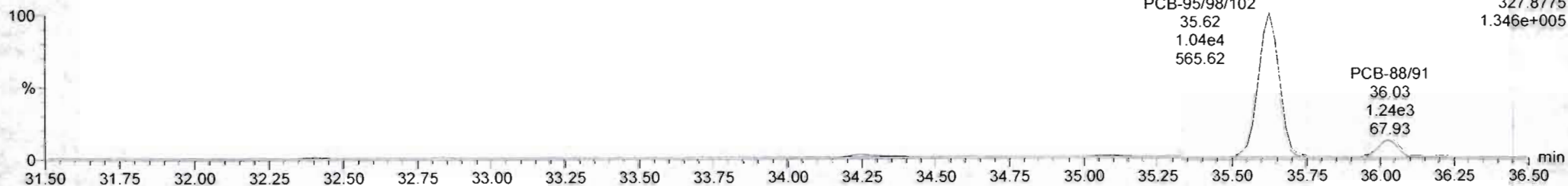
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PCB-96

200426R2\_3

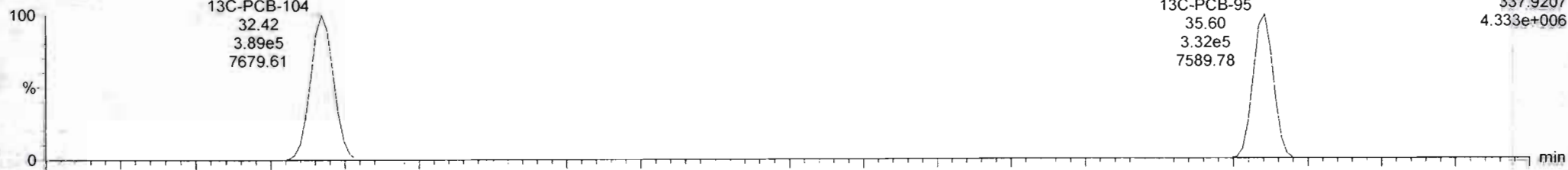


200426R2\_3

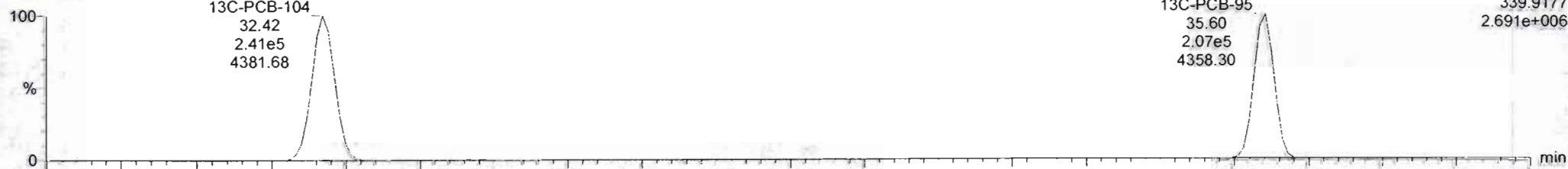


13C-PCB-95

200426R2\_3

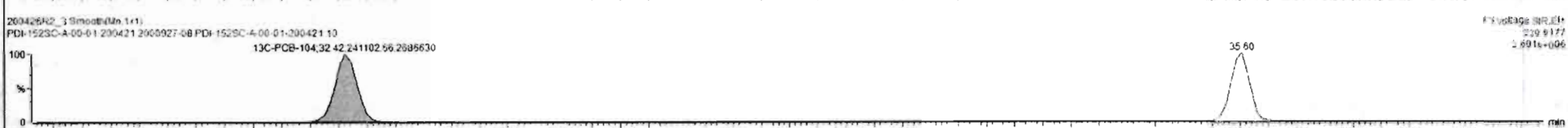
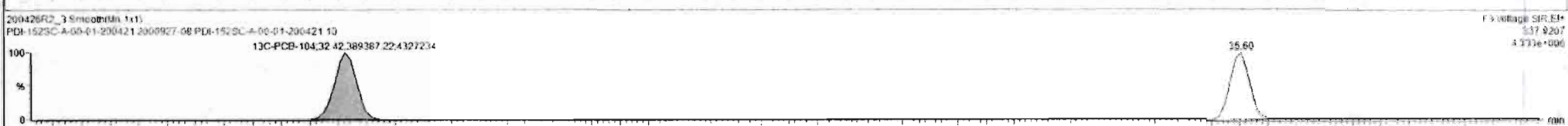
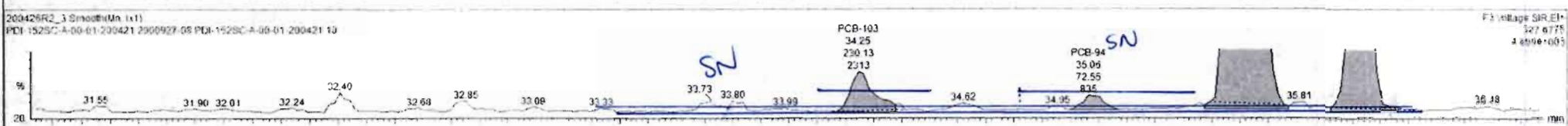
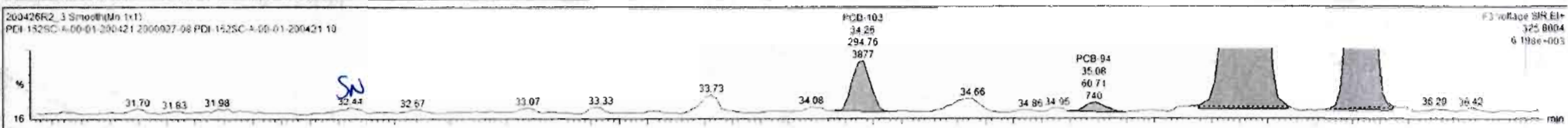


200426R2\_3



#	Name	Resp	RA	nly	RRF	wtval	Pred.RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				0.9699	5.570	0.00		0.000			456.4		6.50	459.4
229	3rd Function Penta-PCBs				1.2565	5.570	0.00		0.000			536.0		5.47	549.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc
1	66 PCB-103	34.31	34.38	7.948e2	3.301e2	1.560	1.78	YES	1.5975	0.00000
2	68 PCB-94	25.07	35.08	6.071e1	7.255e1	1.560	0.54	YES	0.36577	0.00000
3	69 PCB-95/98/102	35.56	35.62	1.677e4	1.053e4	1.560	1.59	NO	76.807	76.927
4	71 PCB-58/61	36.01	36.03	2.283e3	1.275e3	1.560	1.79	NO	12.086	12.086
5	73 PCB-84/92	26.95	36.96	7.503e3	4.479e3	1.560	1.68	NO	42.750	42.750
6	74 PCB-89	37.14	37.15	1.948e2	1.285e2	1.560	1.52	NO	1.0144	1.0144
7	75 PCB-90/101	37.34	37.35	2.214e4	1.450e4	1.560	1.53	NO	119.00	119.00
8	77 PCB-99	37.69	37.69	8.687e3	5.151e3	1.560	1.69	NO	38.632	38.632
9	78 PCB-119	38.17	38.17	5.737e2	3.916e2	1.560	1.47	NO	2.1825	2.1825
10	79 PCB-108/112	38.30	38.34	9.009e2	5.541e2	1.560	1.63	NO	3.9301	3.9301
11	81 PCB-97	38.80	38.87	5.193e3	3.066e3	1.560	1.60	NO	24.748	24.748
12	83 PCB-87/117/125	38.95	38.97	7.742e3	4.496e3	1.560	1.72	NO	30.043	30.043



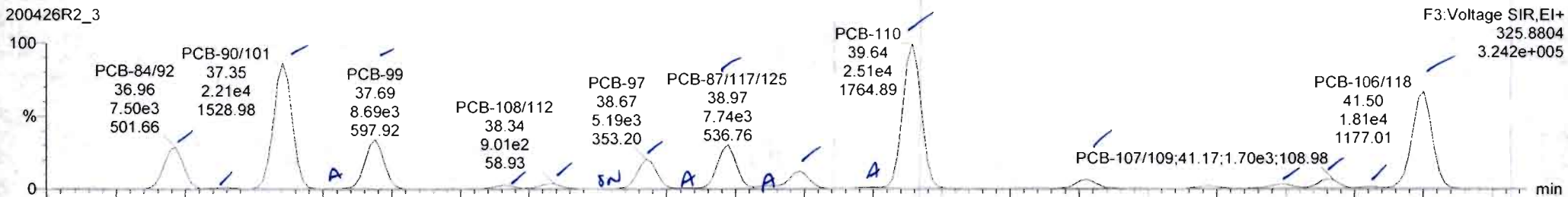
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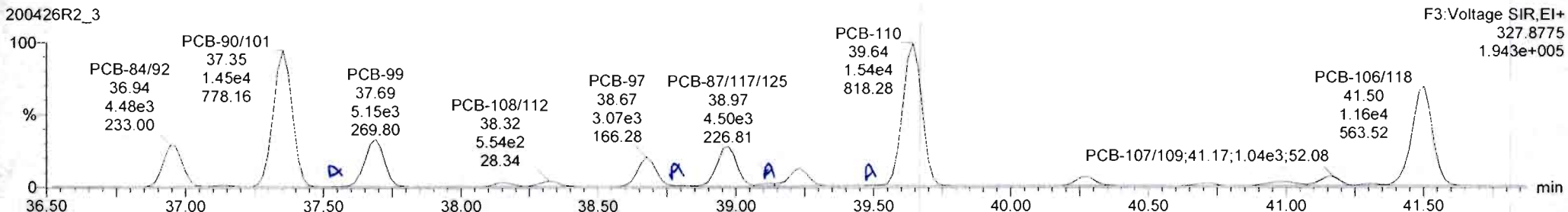
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**PCB-119**

200426R2\_3

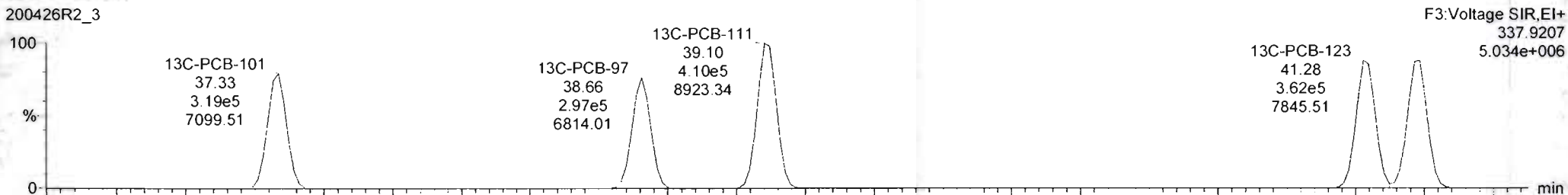


200426R2\_3

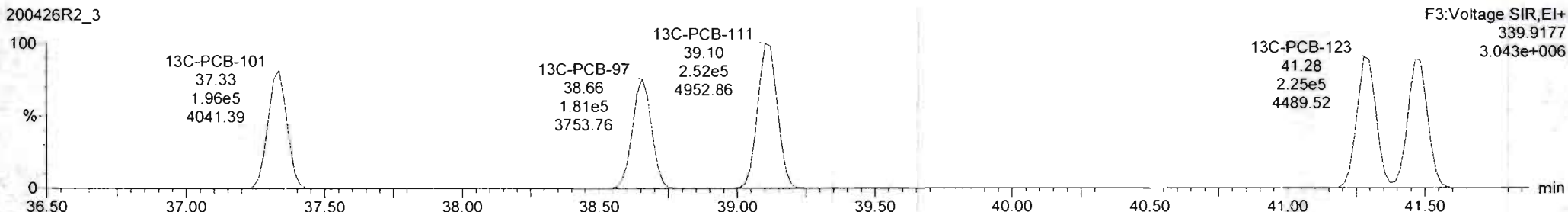


**13C-PCB-111**

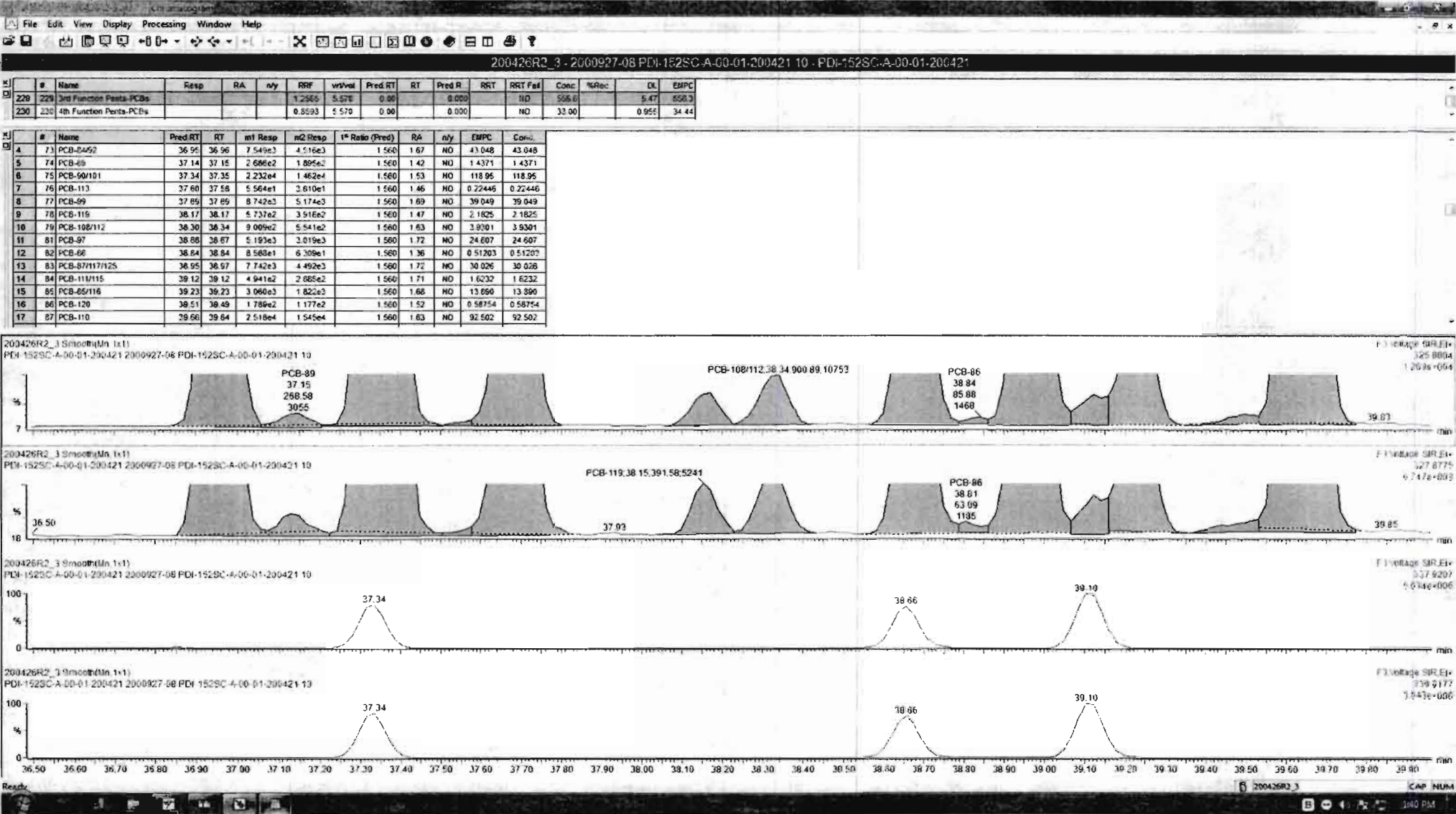
200426R2\_3



200426R2\_3

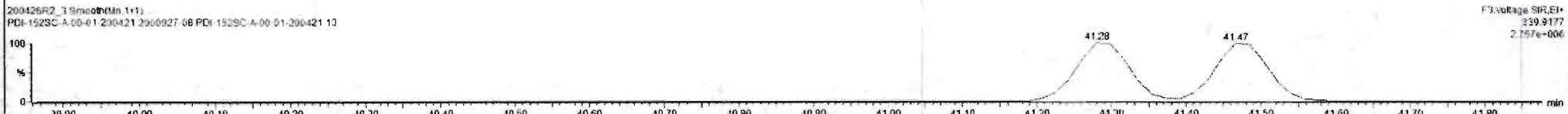
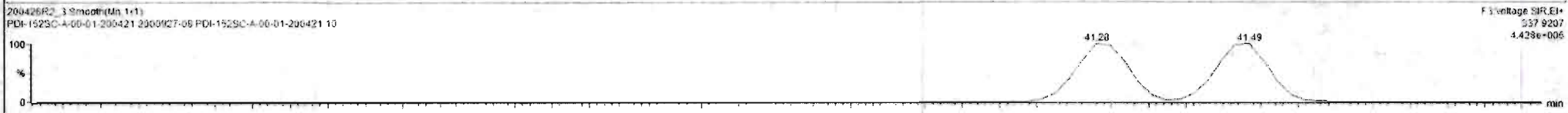
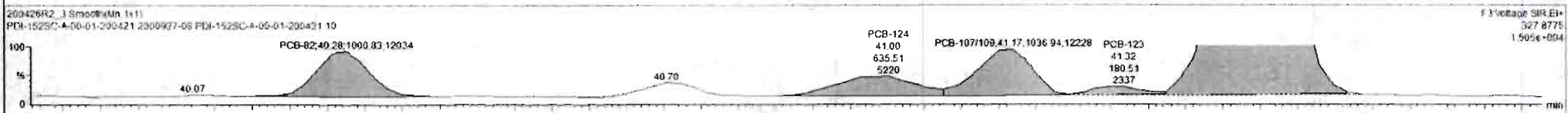
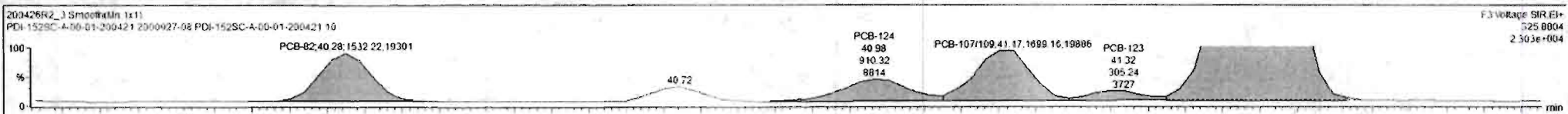






#	Name	Resp	RA	n/y	RRF	rrt/vol	Pred.RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
229	229 3rd Function Penta-PCBs				1.2565	5.570	0.00		0.000		NO	556.5		5.47	558.5
230	230 4th Function Penta-PCBs				0.8593	5.570	0.00		0.000		NO	33.00		0.55	34.44

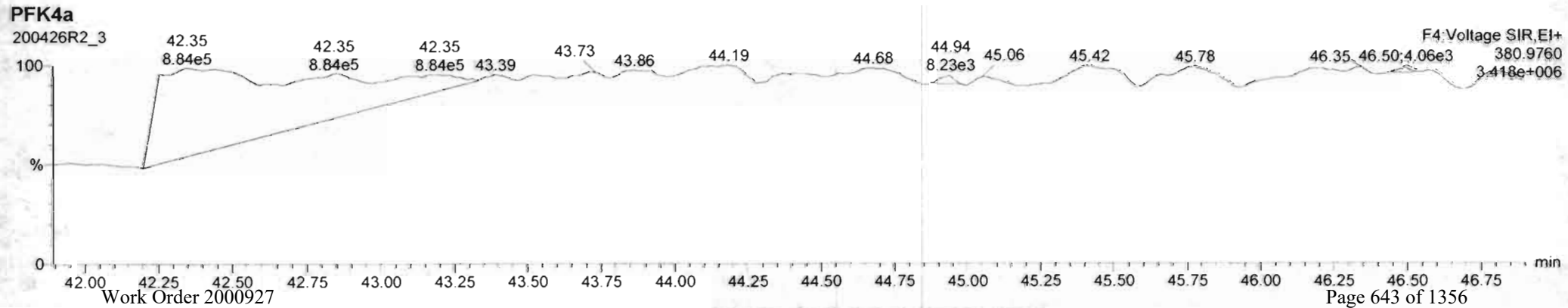
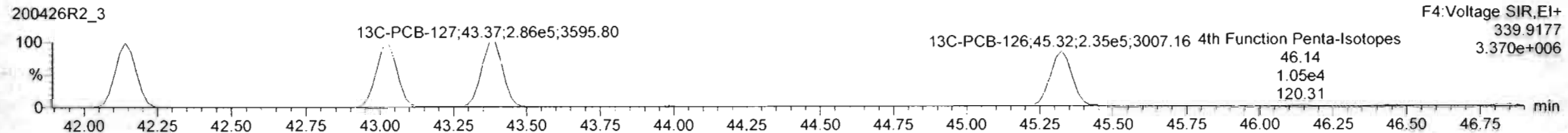
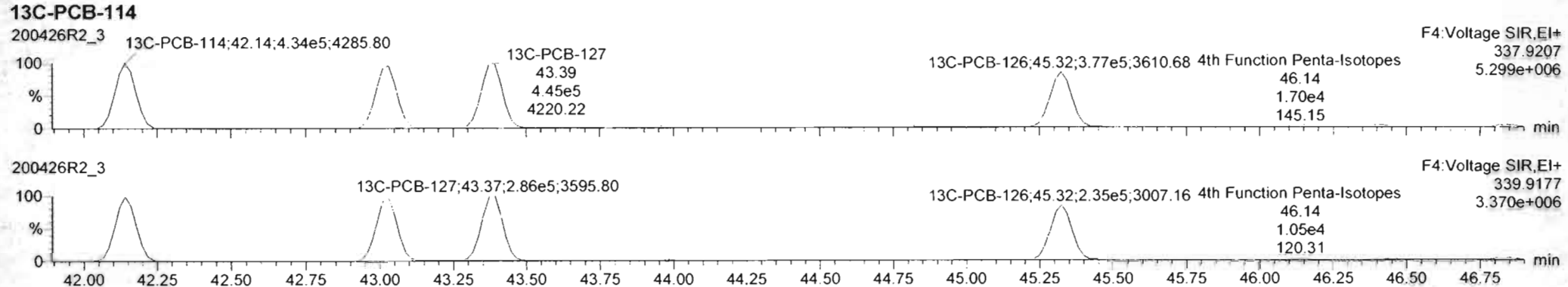
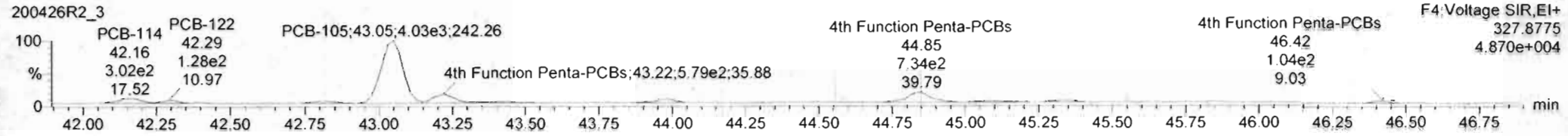
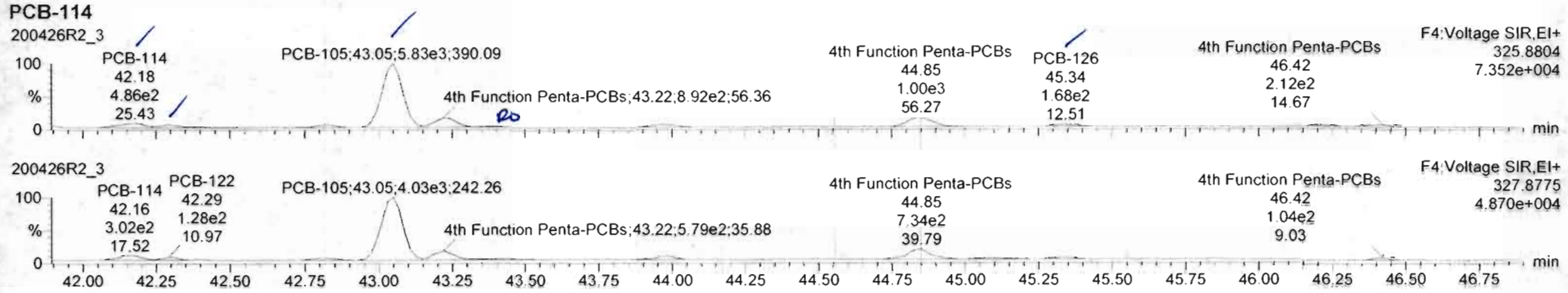
#	Name	Pred RT	RT	int Resp	mG Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
9	78 PCB-115	38.17	38.17	5.737e2	3.916e2	1.560	1.47	NO	2.1825	2.1825
10	79 PCB-108/112	38.30	38.34	9.009e2	5.941e2	1.560	1.63	NO	3.9301	3.9301
11	81 PCB-97	38.68	38.67	5.193e3	3.019e3	1.560	1.72	NO	24.607	24.607
12	82 PCB-88	38.84	38.84	6.580e1	6.309e1	1.560	1.36	NO	0.51203	0.51203
13	83 PCB-87/117/125	38.95	38.97	7.742e3	4.492e3	1.560	1.72	NO	30.026	30.026
14	84 PCB-111/115	39.12	39.12	4.941e2	2.865e2	1.560	1.71	NO	1.6232	1.6232
15	85 PCB-85/116	39.23	39.23	3.060e3	1.822e3	1.560	1.68	NO	13.890	13.890
16	86 PCB-120	39.51	39.49	1.789e2	1.177e2	1.560	1.52	NO	0.58754	0.58754
17	87 PCB-110	39.66	39.64	2.518e4	1.545e4	1.560	1.63	NO	92.502	92.502
18	88 PCB-82	40.28	40.28	1.532e3	1.001e3	1.560	1.53	NO	9.9504	9.9504
19	89 PCB-124	40.98	40.98	9.103e2	6.355e2	1.560	1.43	NO	3.5829	3.5829
20	90 PCB-107/109	41.13	41.17	1.699e3	1.037e3	1.560	1.64	NO	6.4569	6.4569
21	91 PCB-123	41.30	41.32	1.052e2	1.805e2	1.560	1.69	NO	1.2523	1.2523
22	92 PCB-106/118	41.51	41.50	1.820e4	1.155e4	1.560	1.58	NO	74.083	74.083



Dataset: U:\VG12.PRO\Results\200426R2\200426R2-3.qld

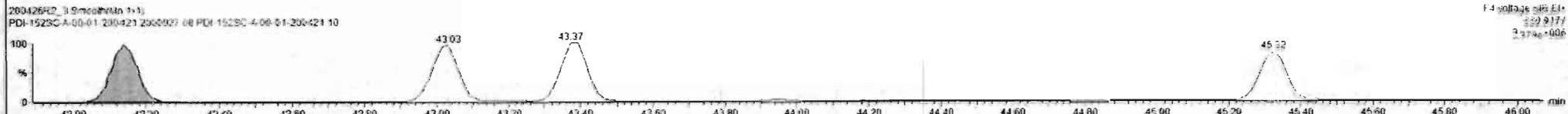
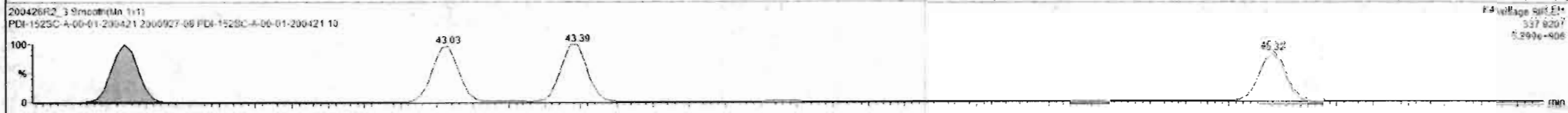
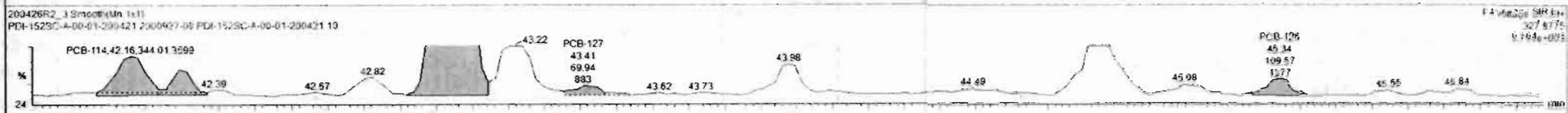
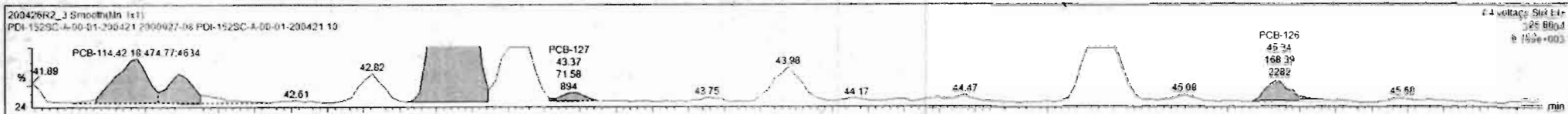
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 Printed: Monday, April 27, 2020 09:51:49 Pacific Daylight Time

Sample Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421



#	Name	Resp	RA	n/y	RRF	w/vol	Pred RT	RT	Pred R	RRT	RRT Fal	Conc	%Rec	DL	EMPC
229	229 3rd Function Penta-PCBs				1.2565	5.570	0.00		0.000		NO	556.9		5.47	858.5
230	230 4th Function Penta-PCBs				0.8993	5.570	0.00		0.000		NO	34.46		0.965	34.79

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	93 PCB-114	42.16	42.18	4.748e2	3.440e2	1.560	1.32	NO	2.3540	2.3540
2	94 PCB-132	42.25	42.25	2.400e2	1.580e2	1.560	1.54	NO	1.3611	1.3611
3	95 PCB-105	43.07	43.05	5.620e3	4.027e3	1.550	1.45	NO	29.894	29.894
4	96 PCB-127	43.41	43.37	7.158e1	6.994e1	1.560	1.02	YES	0.33598	0.00000
5	97 PCB-126	45.33	45.34	1.684e2	1.096e2	1.560	1.54	NO	0.84741	0.84741



Dataset: U:\VG12.PRO\Results\200426R2\200426R2-3.qld

Last Altered: Monday, April 27, 2020 08:37:46 Pacific Daylight Time

Printed: Monday, April 27, 2020 09:51:49 Pacific Daylight Time

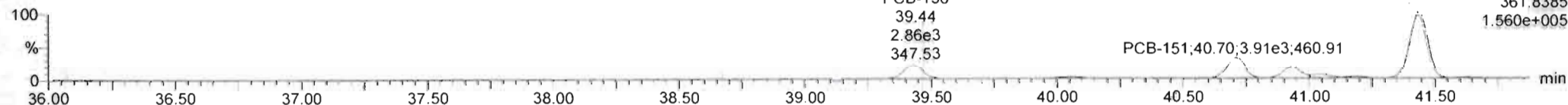
Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

**PCB-155**

200426R2\_3

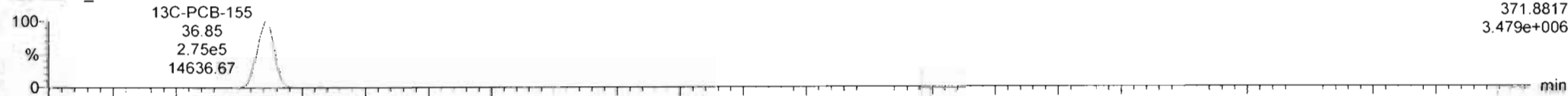


200426R2\_3

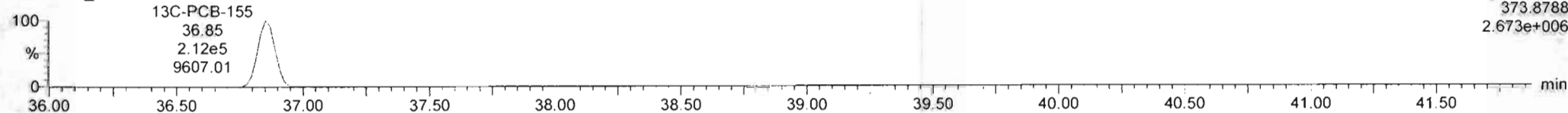


**13C-PCB-155**

200426R2\_3

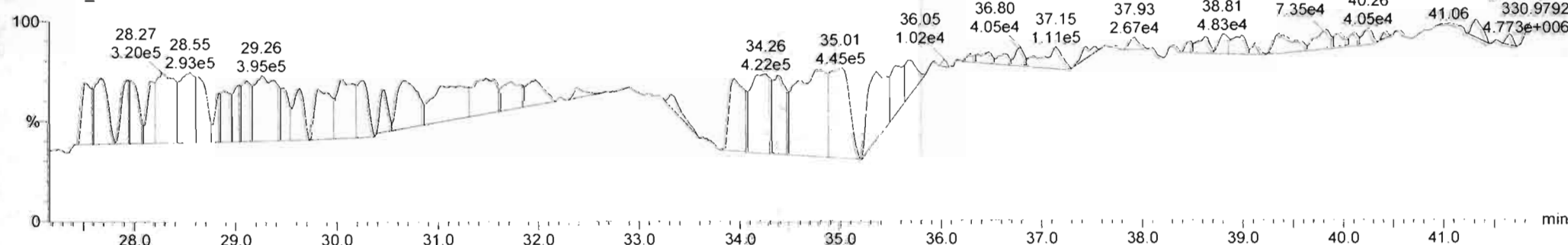


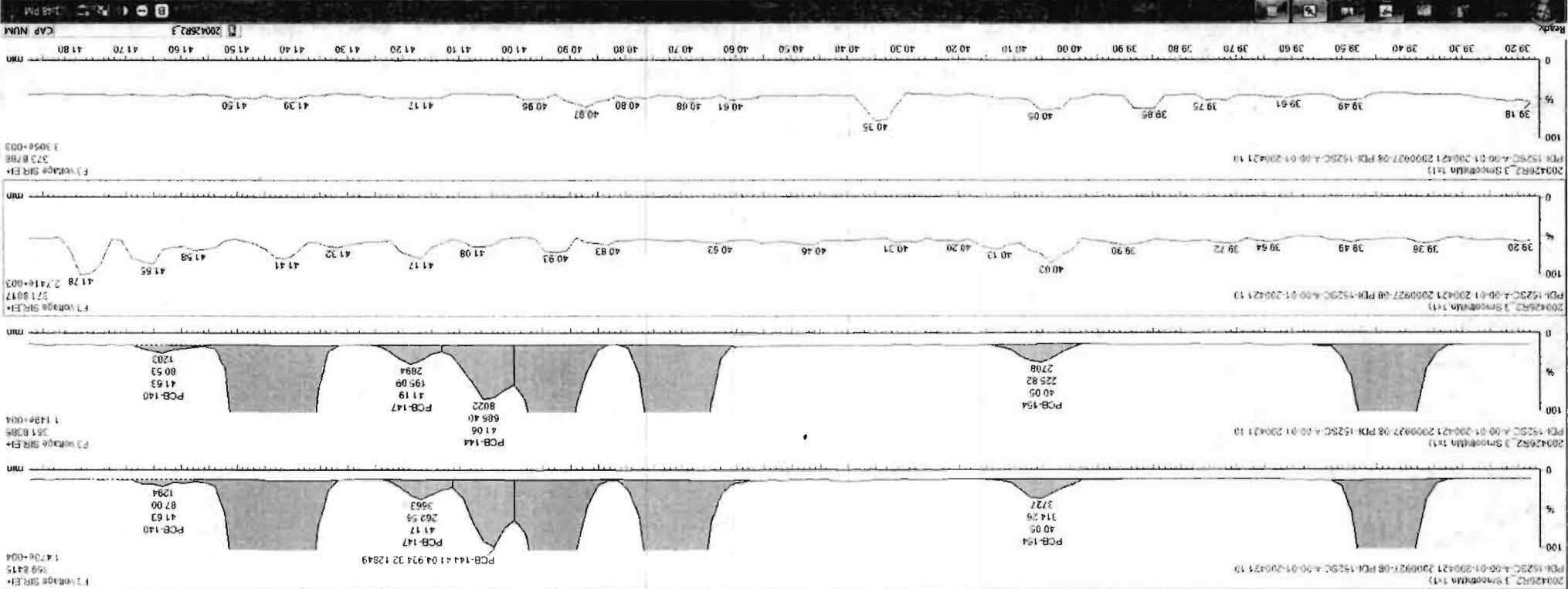
200426R2\_3



**PFK3d**

200426R2\_3





#	Name	mt	mt Resp	mt Resp (Prel)	RA	my	EMPC	Comp
1	PCB-140	39.42	39.44	39.44	2.784	2.784	2.784	2.784
2	PCB-147	40.05	40.05	40.05	2.2072	2.2072	2.2072	2.2072
3	PCB-144	40.70	40.70	40.70	45.647	45.647	45.647	45.647
4	PCB-154	40.50	40.50	40.50	2.0734	2.0734	2.0734	2.0734
5	PCB-140	41.04	41.04	41.04	7.8993	7.8993	7.8993	7.8993
6	PCB-147	41.17	41.17	41.17	2.1379	2.1379	2.1379	2.1379
7	PCB-144	41.43	41.43	41.43	120.58	120.58	120.58	120.58
8	PCB-154	41.83	41.83	41.83	0.8028	0.8028	0.8028	0.8028

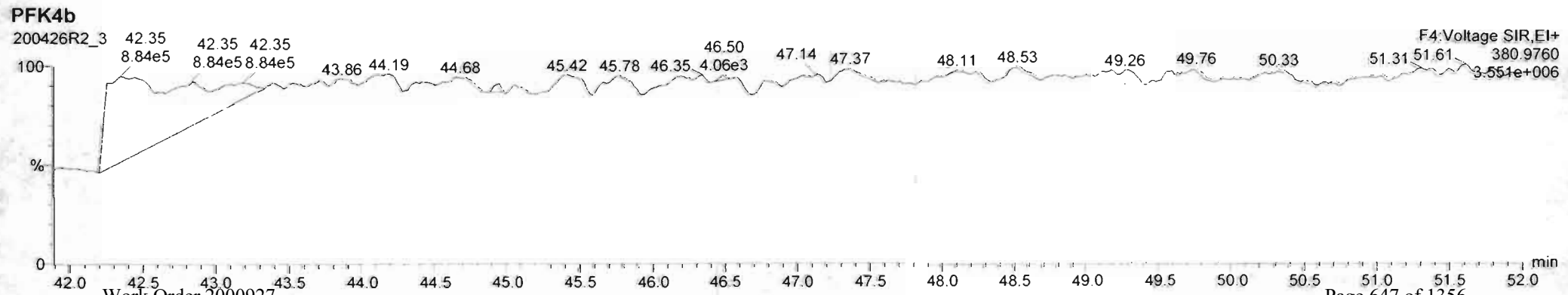
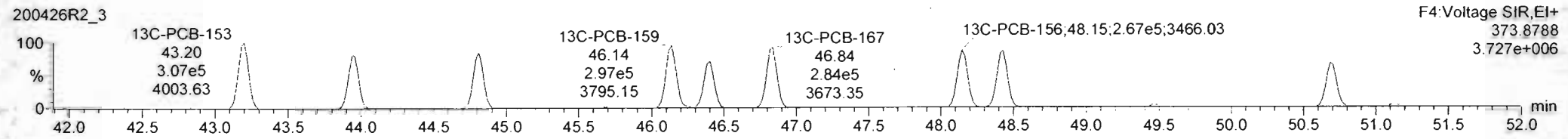
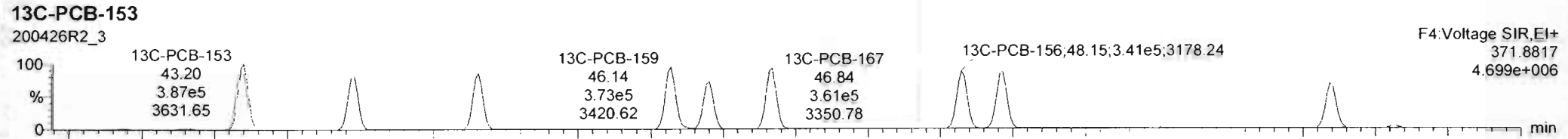
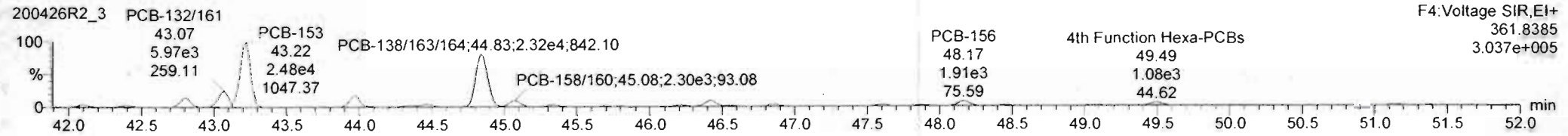
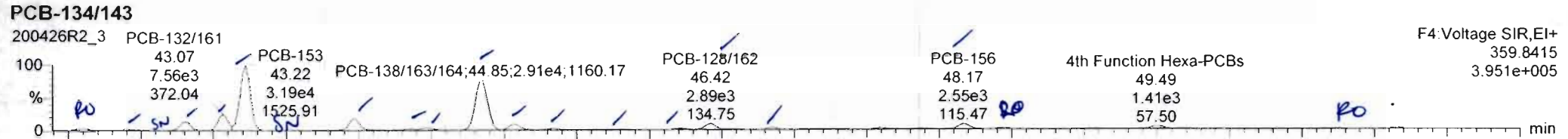
200426R2\_3-200927-08 PDI:152SC-A-00-01-200421 10 - PDI:152SC-A-00-01-200421

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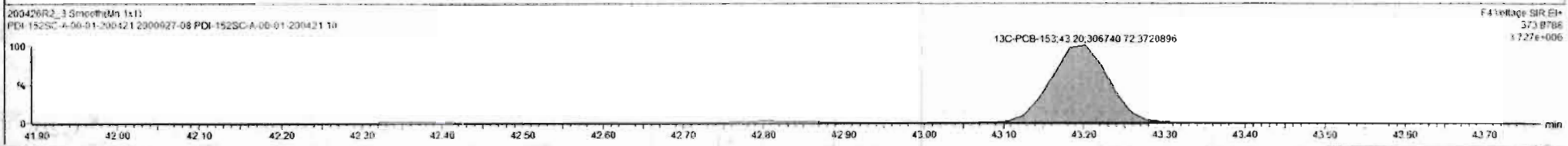
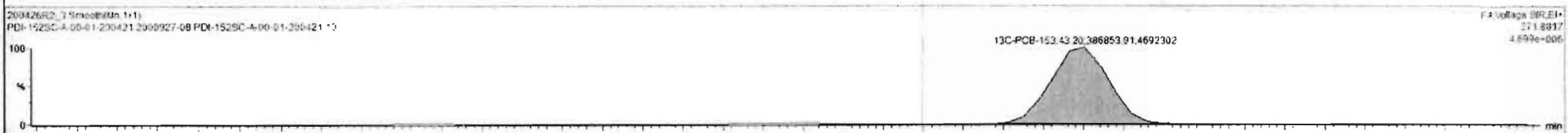
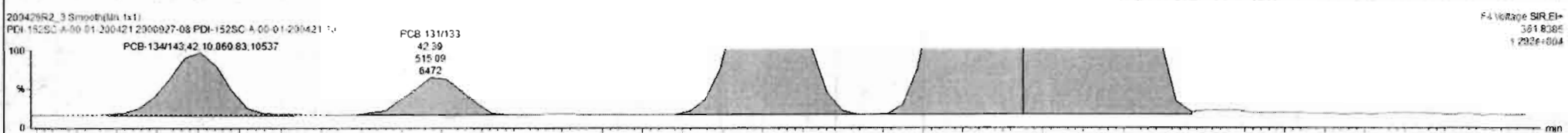
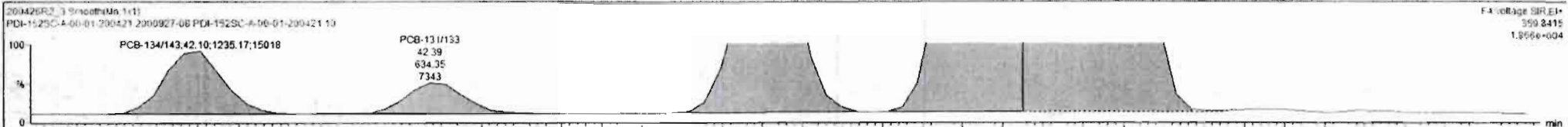
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#	Name	Resp	RA	n/y	RRF	wtVal	Pred RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBe				0.9328	5.570	0.00		0.000		NO	436.0		5.68	457.2
233	233 Total Hepta-PCBe				1.3144	5.570	0.00		0.000		NO	464.0		4.20	456.9

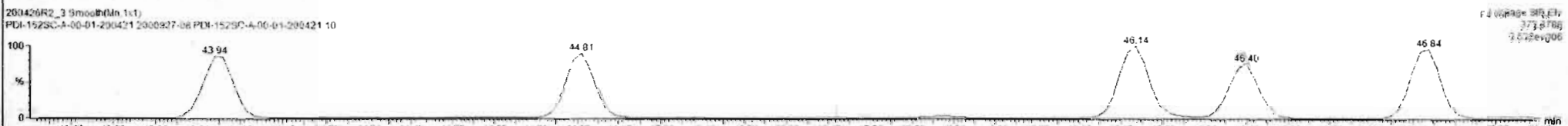
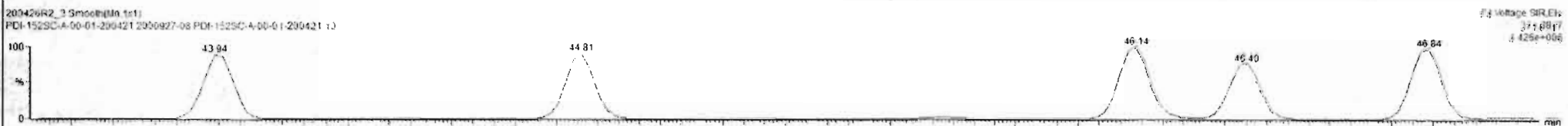
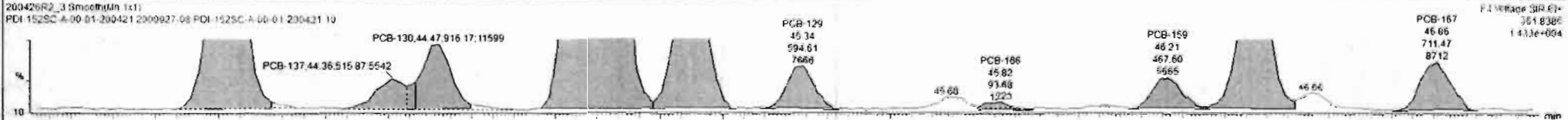
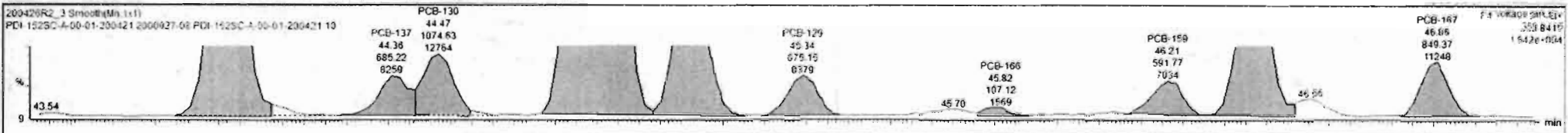
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	111 PCB-134/143	42.10	42.10	1.235e3	8.608e2	1.240	1.43	YES	7.6389	0.00000
2	112 PCB-121/132	42.41	42.39	6.343e2	5.151e2	1.240	1.23	NO	4.3968	4.3968
3	114 PCB-146/165	42.51	42.50	4.206e3	3.486e3	1.240	1.21	NO	23.806	23.806
4	115 PCB-132/151	43.05	43.07	7.556e3	5.969e3	1.240	1.27	NO	38.563	38.563
5	116 PCB-153	43.24	43.22	3.183e4	2.481e4	1.240	1.28	NO	146.46	146.46
6	118 PCB-141	43.96	43.98	5.814e3	4.297e3	1.240	1.35	NO	32.624	32.624
7	119 PCB-137	44.36	44.36	8.652e2	4.338e2	1.240	1.58	YES	3.3334	0.00000
8	120 PCB-130	44.45	44.47	1.097e3	1.047e3	1.240	1.05	YES	7.7269	0.00000
9	121 PCB-136/163/164	44.85	44.85	2.912e4	2.321e4	1.240	1.25	NO	135.49	135.49





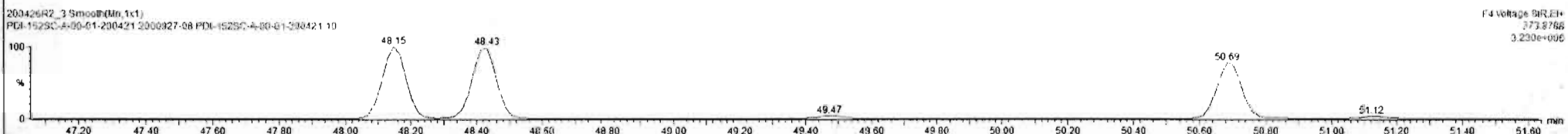
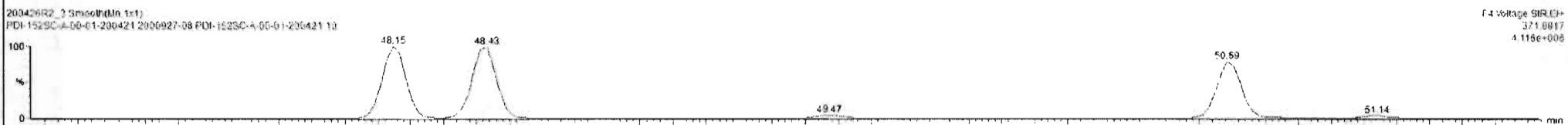
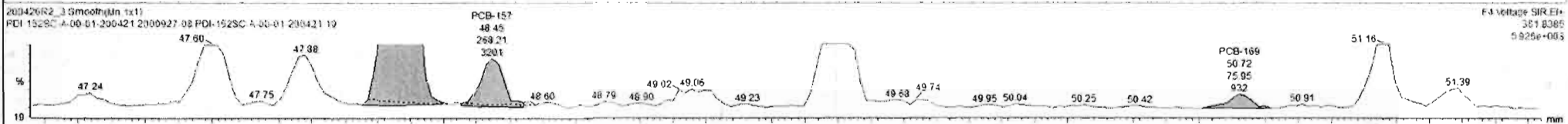
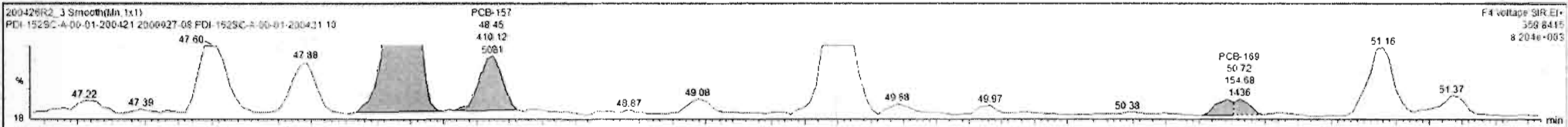
#	Name	Resp	RA	n/y	RRF	wtVal	Pred RT	RT	Pred R	RRY	RRY Fat	Conc	%Rec	OK	EMPC
232	232 4th Function Hexa-PCBs				0.0008	5.570	0.00		0.000		NO	443.1		5.68	457.8
233	233 Total Hepta-PCBs				1.3144	5.570	0.00		0.000		NO	464.0		4.20	466.9

#	Name	Pred RT	RT	mt Resp	nt Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc
6	118 PCB-141	43.96	43.98	5.724e3	4.270e3	1.240	1.34	NO	32.245	32.245
7	119 PCB-137	44.36	44.36	6.852e2	5.159e2	1.240	1.33	NO	4.1189	4.1189
8	120 PCB-130	44.45	44.47	1.075e3	9.162e2	1.240	1.17	NO	7.7625	7.7625
9	121 PCB-138/163/164	44.85	44.85	2.912e4	2.321e4	1.240	1.25	NO	135.49	135.49
10	122 PCB-158/160	45.10	45.08	2.843e3	2.303e3	1.240	1.23	NO	14.613	14.613
11	123 PCB-129	45.36	45.34	8.752e2	5.946e2	1.240	1.14	NO	5.1084	5.1084
12	124 PCB-166	45.82	45.82	1.071e2	9.366e1	1.240	1.14	NO	0.53414	0.53414
13	125 PCB-159	46.16	46.21	5.918e2	4.676e2	1.240	1.27	NO	2.5639	2.5639
14	126 PCB-126/162	46.46	46.42	2.895e3	2.258e3	1.240	1.28	NO	16.086	16.086
15	127 PCB-167	46.86	46.86	8.494e2	7.115e2	1.240	1.19	NO	4.1628	4.1628



#	Name	Resp	RA	nfy	RRF	wtVol	Pred RT	RT	Pred A	RRY	RRY Fail	Conc	%Rec	DL	EMPC
232	4th Function Hexa-PCBs				0.9328	5.570	0.00		0.000		NO	448.2		5.68	458.2
233	Total Hepta-PCBs				1.3144	5.570	0.00		0.000		NO	464.0		4.20	466.9

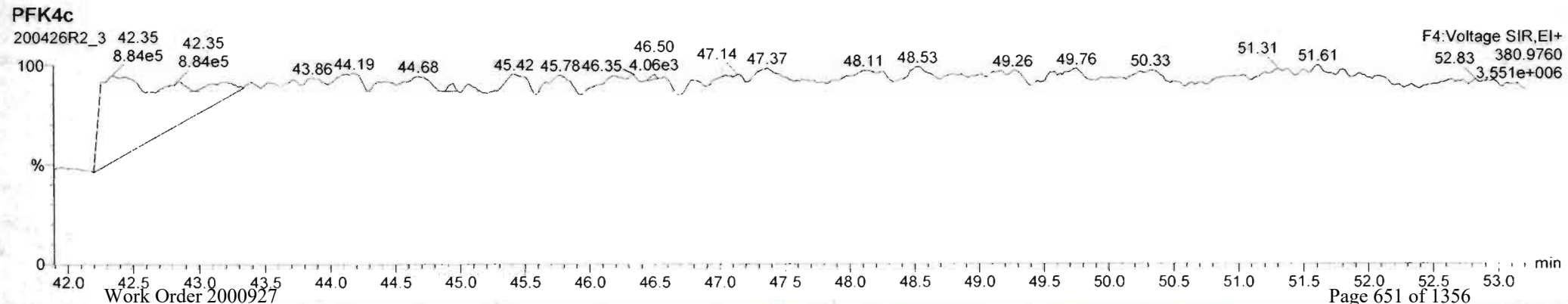
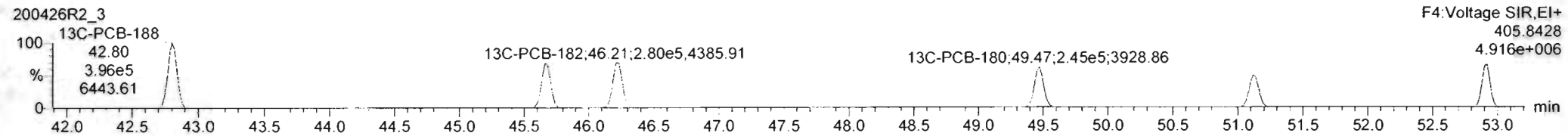
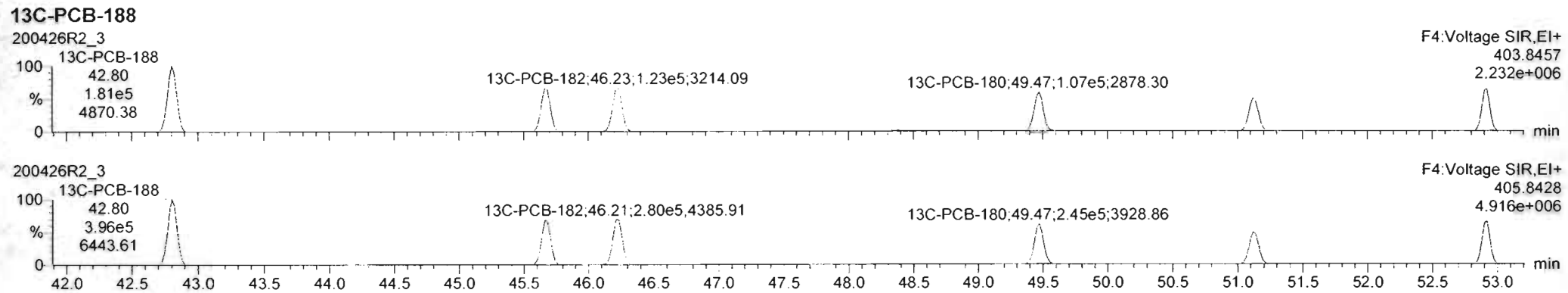
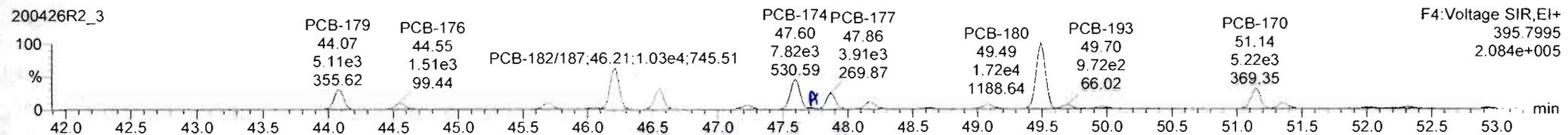
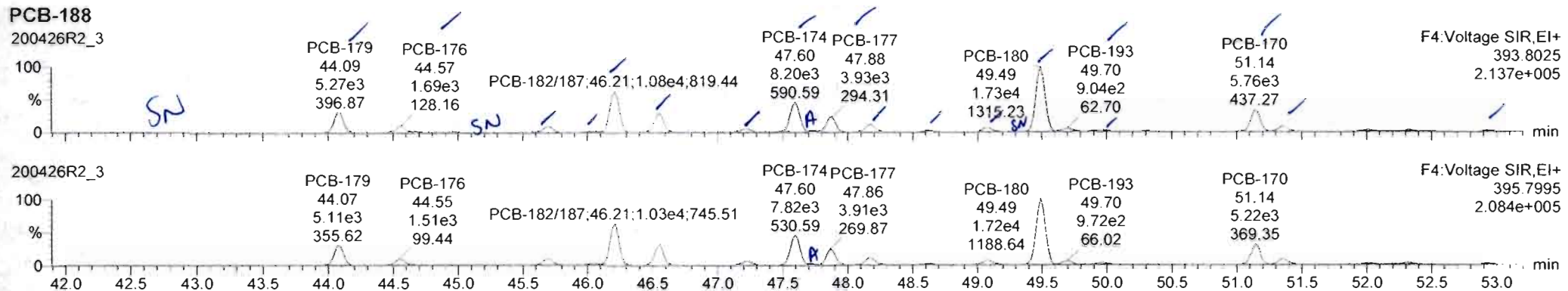
#	Name	Pred RT	RT	ml Resp	ng Resp	1 <sup>st</sup> Ratio (Pred)	RA	nfy	EMPC	Conc
9	121 PCB-138/153/164	44.85	44.85	2.912e4	2.321e4	1.240	1.25	NO	135.49	135.49
10	122 PCB-156/180	45.10	45.08	2.843e3	2.300e3	1.240	1.23	NO	14.613	14.613
11	123 PCB-129	45.38	45.34	8.752e2	5.946e2	1.240	1.14	NO	5.1084	5.1084
12	124 PCB-166	45.82	45.82	1.071e2	9.366e1	1.240	1.14	NO	0.53414	0.53414
13	125 PCB-159	46.16	46.21	5.918e2	4.678e2	1.240	1.27	NO	2.5639	2.5639
14	126 PCB-128/162	46.46	46.42	2.895e3	2.258e3	1.240	1.28	NO	16.086	16.086
15	127 PCB-187	46.88	46.86	8.494e2	7.115e2	1.240	1.19	NO	4.1628	4.1628
16	128 PCB-156	48.17	48.17	2.554e3	1.980e3	1.240	1.30	NO	12.281	12.281
17	129 PCB-157	48.45	48.45	4.101e2	2.682e2	1.240	1.53	YES	1.7512	0.00000
18	130 PCB-169	50.70	50.72	1.547e2	7.595e1	1.240	2.04	YES	0.56398	0.00000



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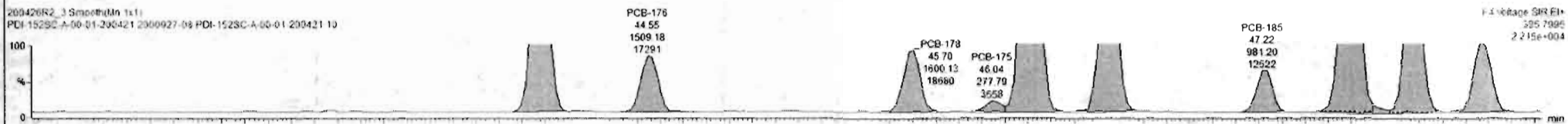
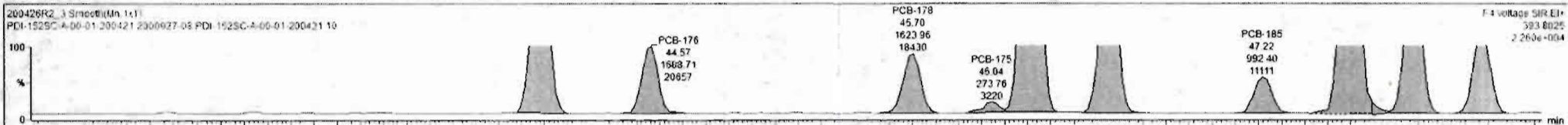
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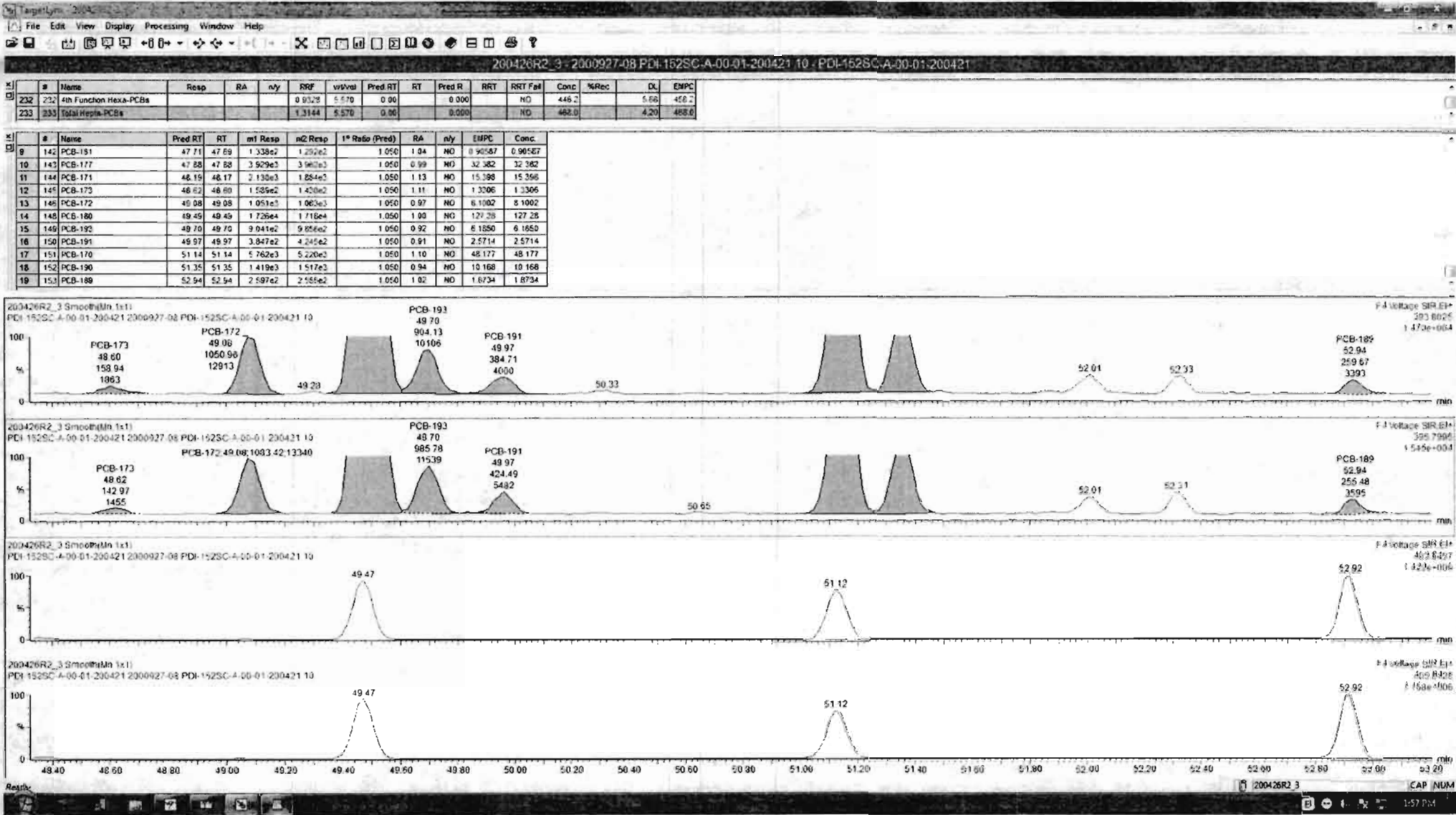
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#	Name	Resp	RA	n/y	RRF	wVVol	Pred.RT	RT	Pred.R	RRT	RRT.Fail	Conc	%Rec	DL	EMPC
232	4th Function Hexa-PCBs				0.9328	5.570	0.00		0.000		NO	448.2		5.66	456.2
233	Total Hepta-PCBs				1.3144	5.570	0.00		0.000		NO	464.6		4.20	467.5

#	Name	Pred.RT	RT	Inf Resp	n2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	131 PCB-179	44.08	44.09	5.274e3	5.108e3	1.050	1.83	NO	25.265	25.855
2	134 PCB-176	44.55	44.57	1.689e3	1.509e3	1.050	1.12	NO	8.1333	8.1333
3	136 PCB-178	45.68	45.70	1.624e3	1.800e3	1.050	1.01	NO	11.284	11.284
4	137 PCB-175	46.04	46.04	2.738e2	2.776e2	1.050	0.99	NO	1.9383	1.9383
5	138 PCB-182/187	46.23	46.21	1.081e4	1.035e4	1.050	1.05	NO	63.259	63.259
6	139 PCB-183	46.57	46.56	5.050e3	5.115e3	1.050	0.99	NO	32.556	32.556
7	140 PCB-185	47.24	47.22	9.924e2	9.812e2	1.050	1.01	NO	7.4494	7.4494
8	141 PCB-174	47.82	47.80	8.123e3	7.776e3	1.050	1.04	NO	63.149	63.149
9	142 PCB-181	47.71	47.69	1.338e2	1.292e2	1.050	1.04	NO	0.90587	0.90567
10	143 PCB-177	47.86	47.86	3.929e3	3.952e3	1.050	0.99	NO	32.362	32.362



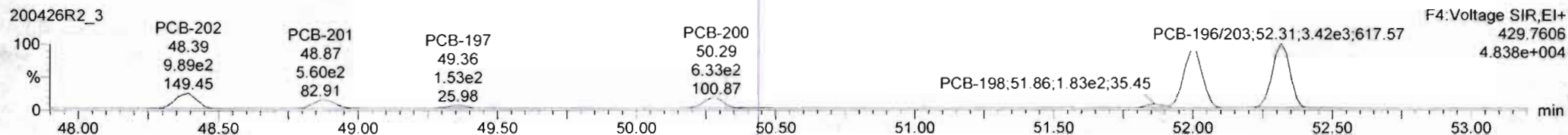
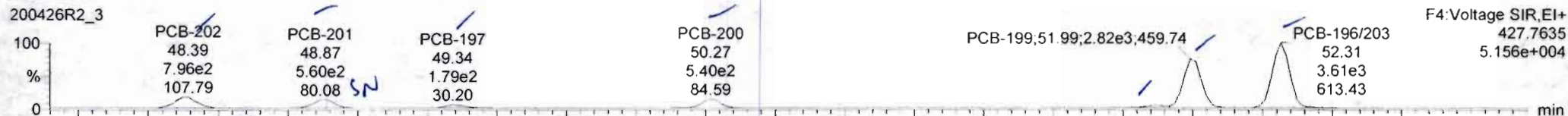


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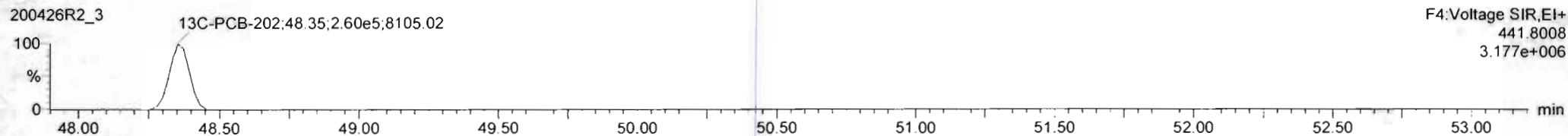
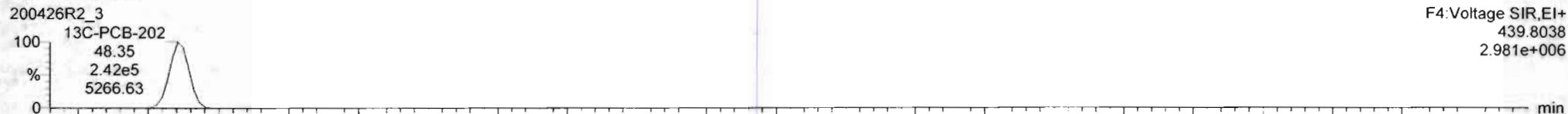
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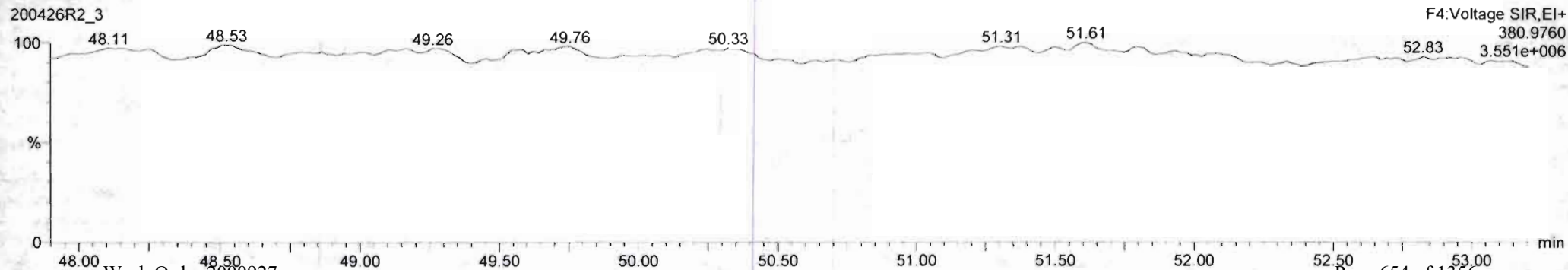
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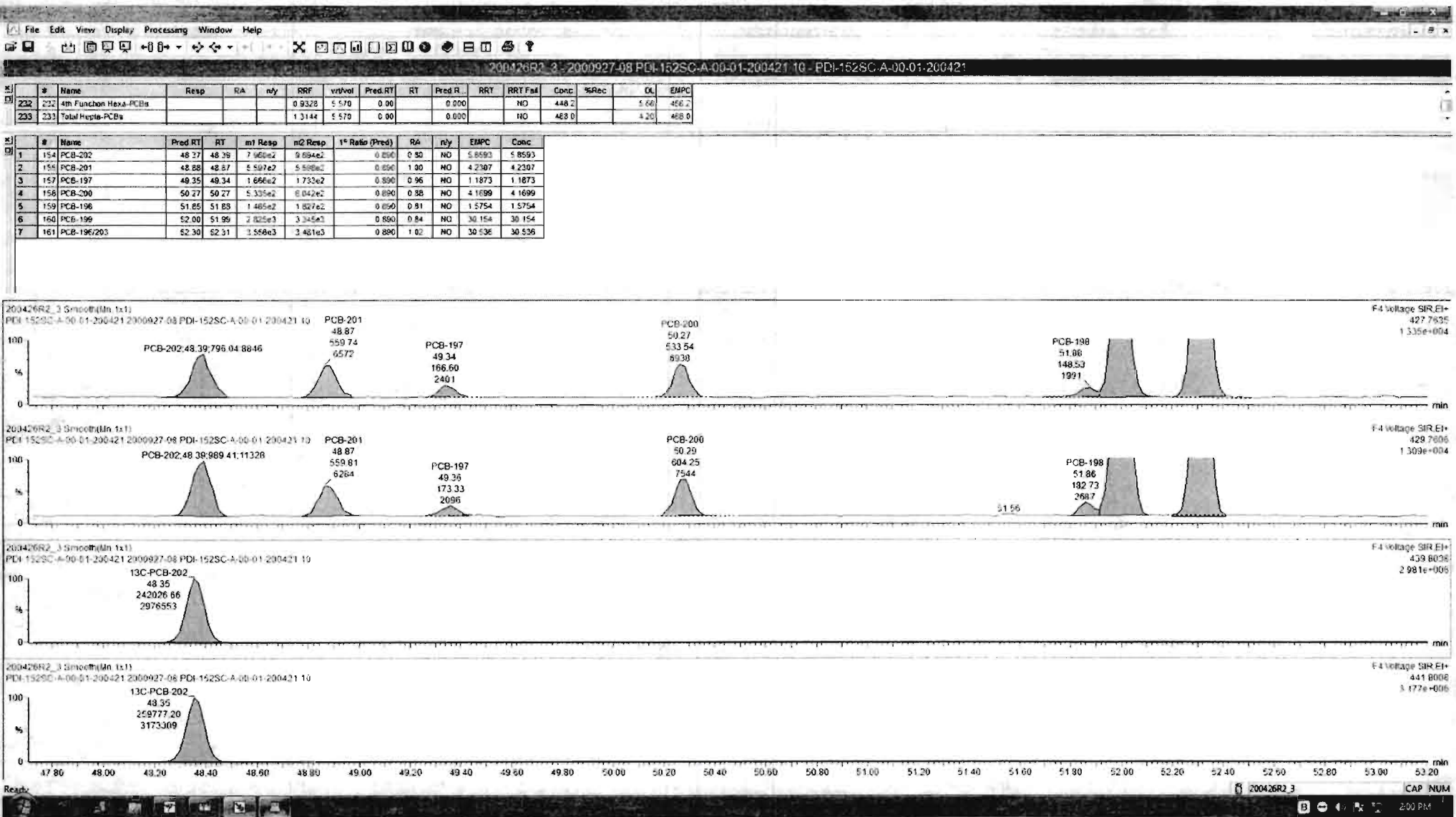


**13C-PCB-202**



**PFK4d**

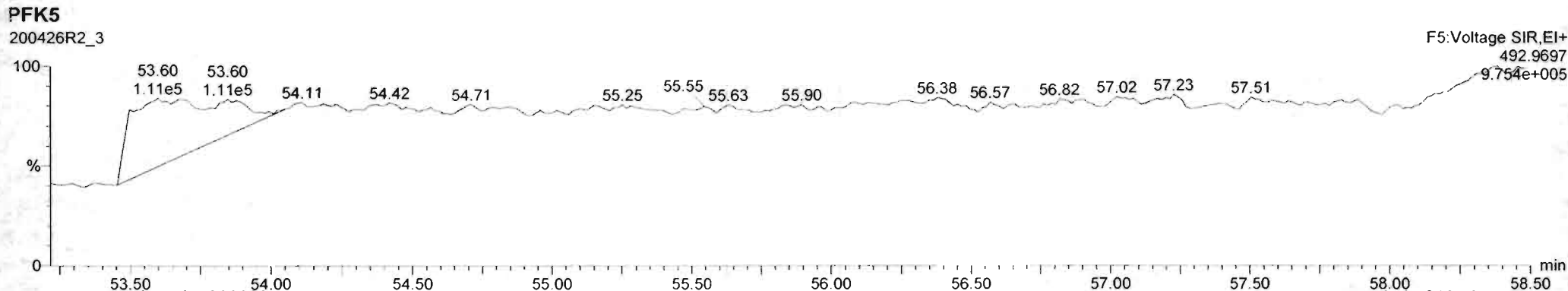
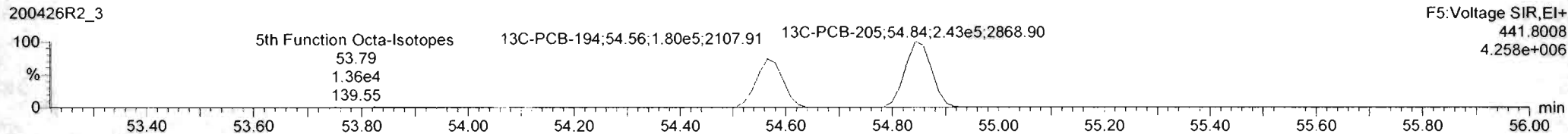
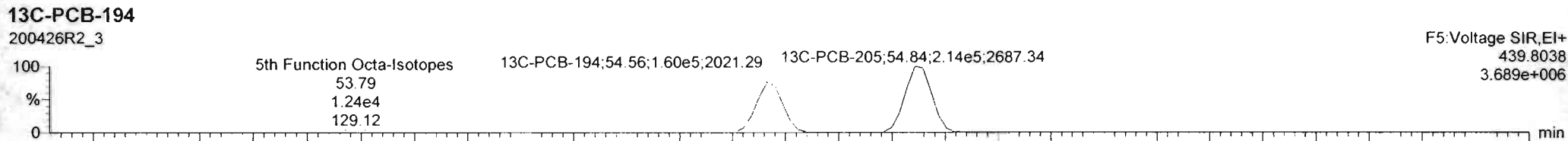
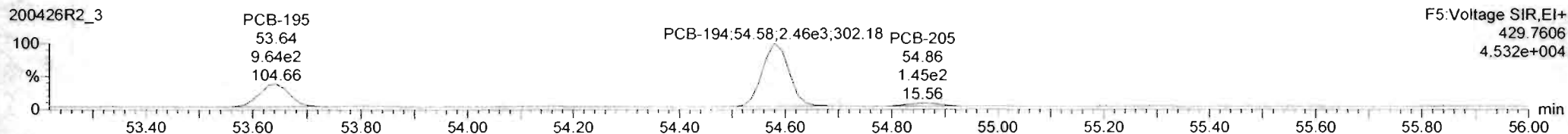
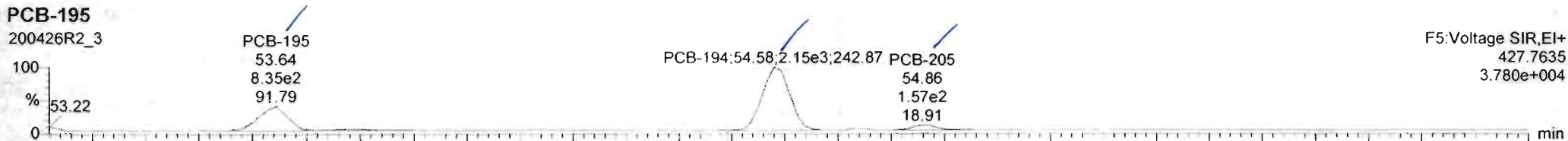




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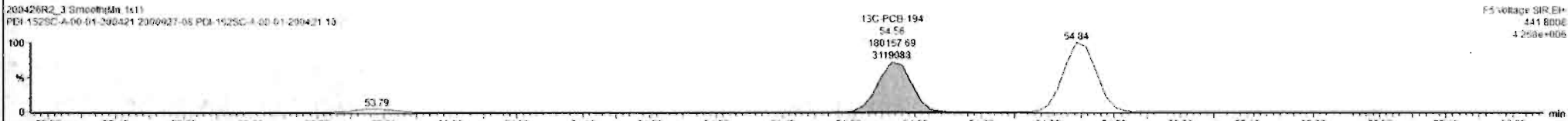
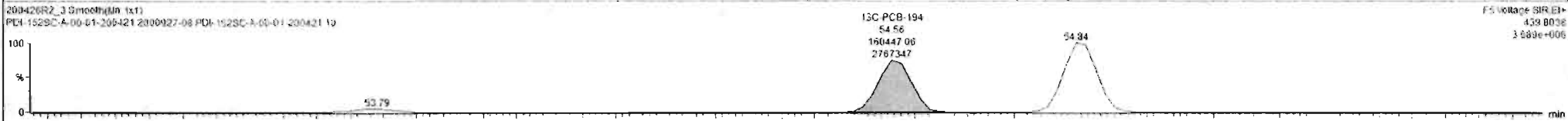
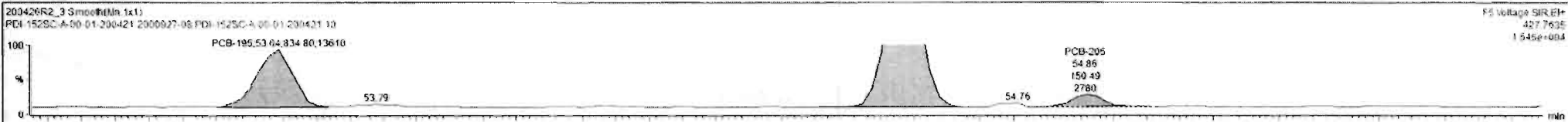
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#	Name	Resp	RA	n/y	RRF	w/vol	Pred RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	CMPC
235	235 Sln Function Dcta-PCBs				0.9473	5.570	0.00		0.000		NO	39.07		0.579	39.07
236	236 Total Nona-PCBs				0.8998	5.570	0.00		0.000		NO	20.14		0.427	21.84

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	CMPC	Conc
1	162 PCB-195	53.83	53.54	9.345e2	9.027e2	0.959	0.87	NO	1.2396	12.395
2	163 PCB-154	54.58	54.58	2.149e1	2.404e1	0.890	0.87	NO	25.144	25.144
3	164 PCB-205	54.85	54.85	1.595e2	1.716e2	0.930	0.88	NO	1.5302	1.5302



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200426R2\_3

CAP NUM

Dataset: U:\VG12.PRO\Results\200426R2\200426R2-3.qld

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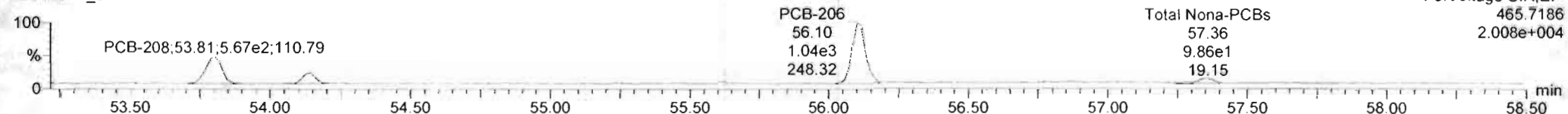
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**PCB-208**

200426R2\_3

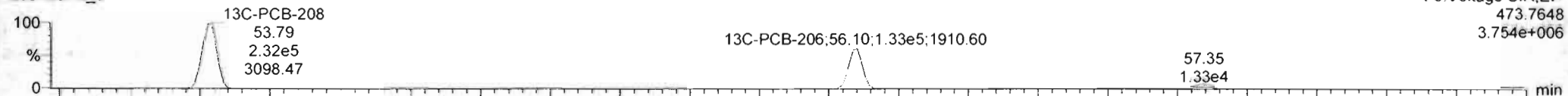


200426R2\_3

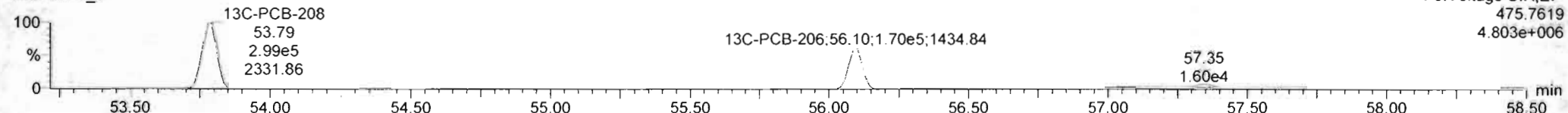


**13C-PCB-208**

200426R2\_3

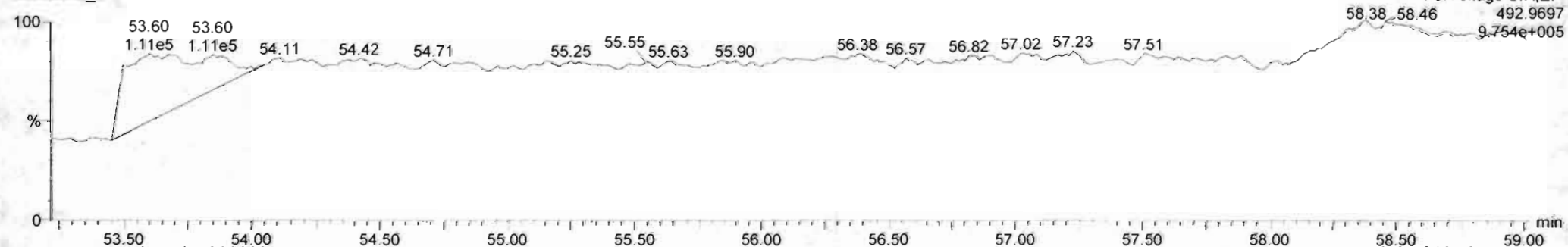


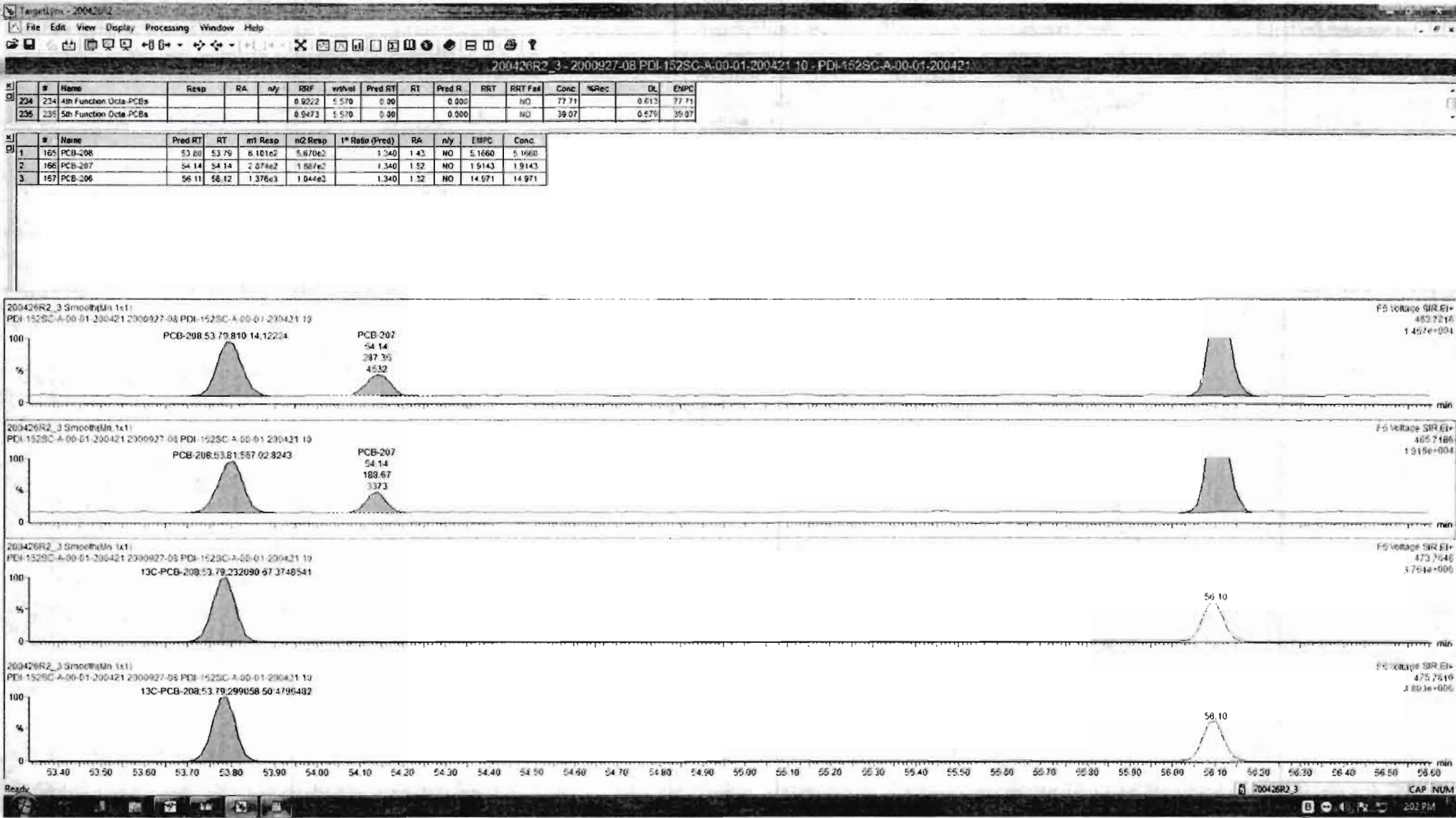
200426R2\_3



**PFK5a**

200426R2\_3





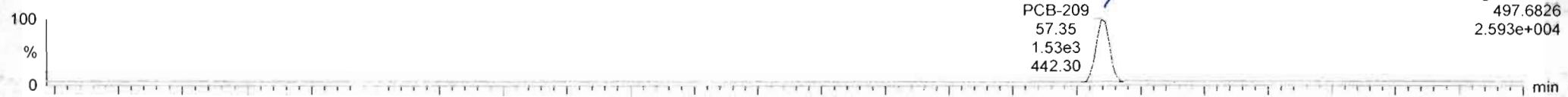
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Name: 200426R2\_3, Date: 27-Apr-2020, Time: 02:00:13, ID: 2000927-08 PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

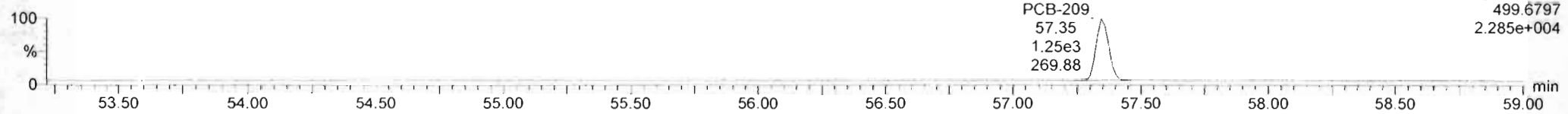
**PCB-209**

200426R2\_3



F5:Voltage SIR,EI+  
497.6826  
2.593e+004

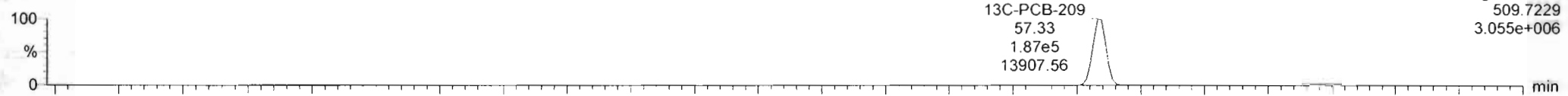
200426R2\_3



F5:Voltage SIR,EI+  
499.6797  
2.285e+004

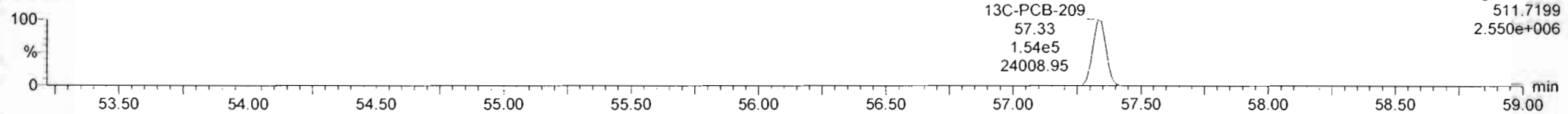
**13C-PCB-209**

200426R2\_3



F5:Voltage SIR,EI+  
509.7229  
3.055e+006

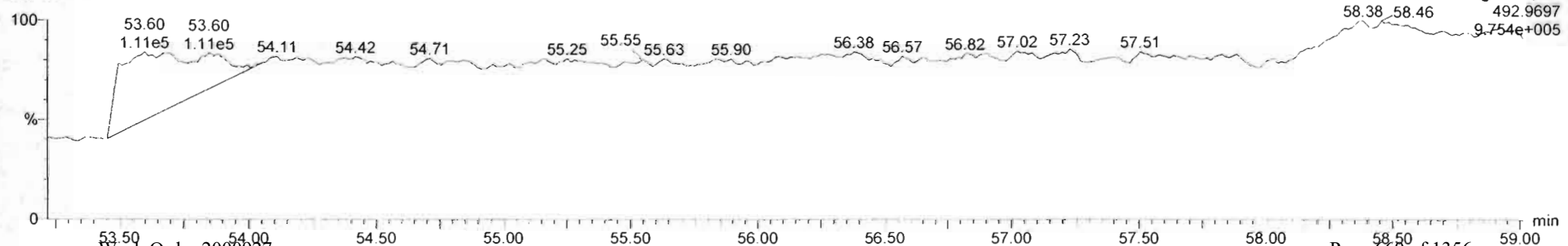
200426R2\_3



F5:Voltage SIR,EI+  
511.7199  
2.550e+006

**PFK5b**

200426R2\_3



F5:Voltage SIR,EI+  
492.9697  
9.754e+005

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-8B.qld

Last Altered: Friday, May 01, 2020 1:32:34 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 1:37:59 PM Pacific Daylight Time

*GPB 05/01/2020*

*CT 05/01/2020*

Method: Untitled 23 Apr 2020 11:56:31

Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

Name: 200426R1\_8, Date: 26-Apr-2020, Time: 18:48:42, ID: 2000927-08@20X PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1			NO	1.08	<del>5.570</del> 5.051	15.58		1.001		YES			2.00	
2	2 PCB-2	3.86e2	2.73	NO	1.03	5.570	17.96	17.95	0.988	0.988	NO	13.80		2.27	13.80
3	3 PCB-3	3.70e2	2.71	NO	1.08	5.570	18.19	18.20	1.001	1.001	NO	12.57		2.15	12.57
4	4 PCB-4/10			NO	0.897	5.570	19.60		1.005		YES			15.0	
5	5 PCB-7/9			NO	0.715	5.570	21.37		1.002		YES			12.4	
6	6 PCB-6			NO	0.729	5.570	22.02		1.033		YES			12.2	
7	7 PCB-5/8			NO	0.722	5.570	22.43		1.052		YES			12.3	
8	8 PCB-14			NO	0.753	5.570	23.58		0.952		YES			16.2	
9	9 PCB-11			NO	0.834	5.570	24.80		1.001		YES			14.6	
10	10 PCB-12/13			NO	0.733	5.570	25.16		1.016		YES			16.6	
11	11 PCB-15			NO	0.782	5.570	25.51		1.030		YES			15.6	
12	12 PCB-19			NO	1.06	5.570	23.72		1.001		YES			5.54	
13	13 PCB-30			NO	1.63	5.570	24.64		1.040		YES			3.60	
14	14 PCB-18			NO	0.777	5.570	25.39		0.952		YES			5.48	
15	15 PCB-17			NO	0.734	5.570	25.57		0.959		YES			5.81	
16	16 PCB-24/27			NO	1.02	5.570	26.16		0.981		YES			4.19	
17	17 PCB-16/32			NO	0.900	5.570	26.69		1.001		YES			4.74	
18	1... 13C-PCB-1	5.47e4	3.24	NO	0.999	5.570	15.50	15.56	0.609	0.611	NO	2170	110	18.5	
19	1... 13C-PCB-3	5.40e4	3.55	NO	1.03	5.570	18.14	18.17	0.712	0.714	NO	2084	105	18.0	
20	1... 13C-PCB-4	3.42e4	1.64	NO	0.650	5.570	19.48	19.51	0.765	0.766	NO	2087	105	7.78	
21	1... 13C-PCB-9	5.56e4	1.60	NO	0.996	5.570	21.31	21.32	0.837	0.837	NO	2212	112	5.08	
22	1... 13C-PCB-11	5.32e4	1.62	NO	0.959	5.570	24.75	24.77	0.972	0.973	NO	2199	111	5.27	
23	1... 13C-PCB-19	3.02e4	1.05	NO	0.529	5.570	23.71	23.70	0.931	0.931	NO	2262	114	131	
24	1... 13C-PCB-32	4.18e4	1.22	YES	0.760	5.570	26.67	26.67	1.048	1.047	NO	2183	110	91.1	
25	2... 13C-PCB-15	5.00e4	1.67	NO	1.00	5.570	25.47	25.47	1.000	0.000	NO	1980	100	5.05	

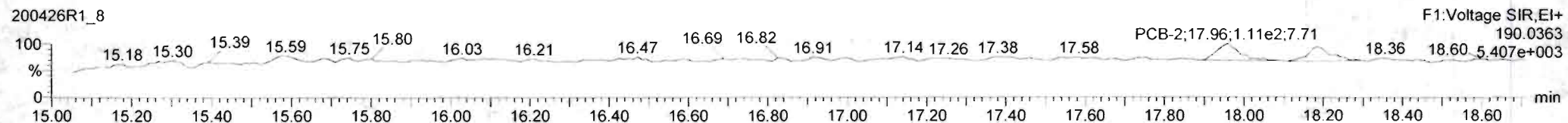
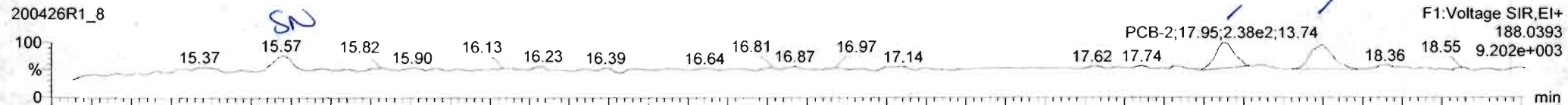
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Printed: Monday, April 27, 2020 09:50:27 Pacific Daylight Time

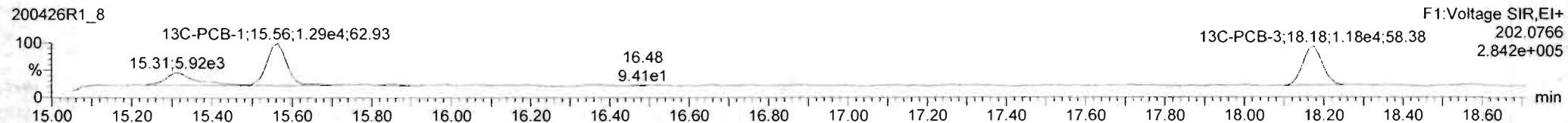
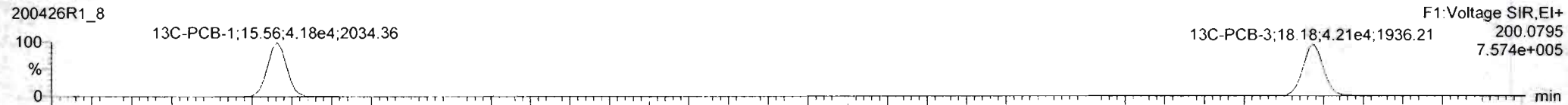
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Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

Name: 200426R1\_8, Date: 26-Apr-2020, Time: 18:48:42, ID: 2000927-08@20X PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

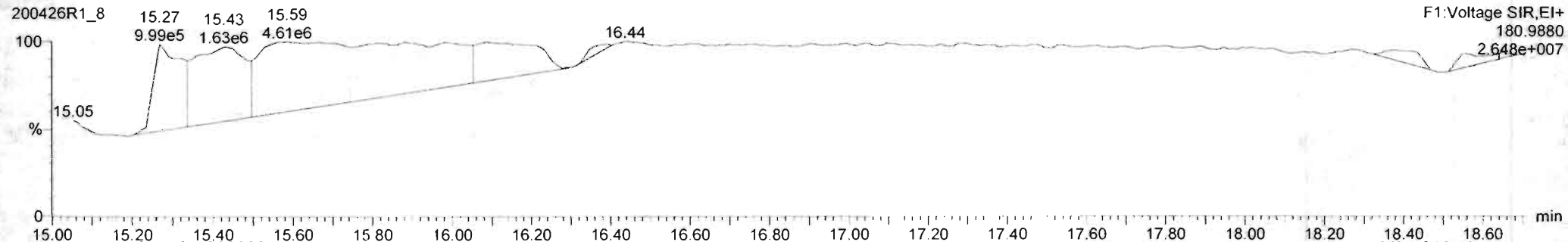
PCB-1

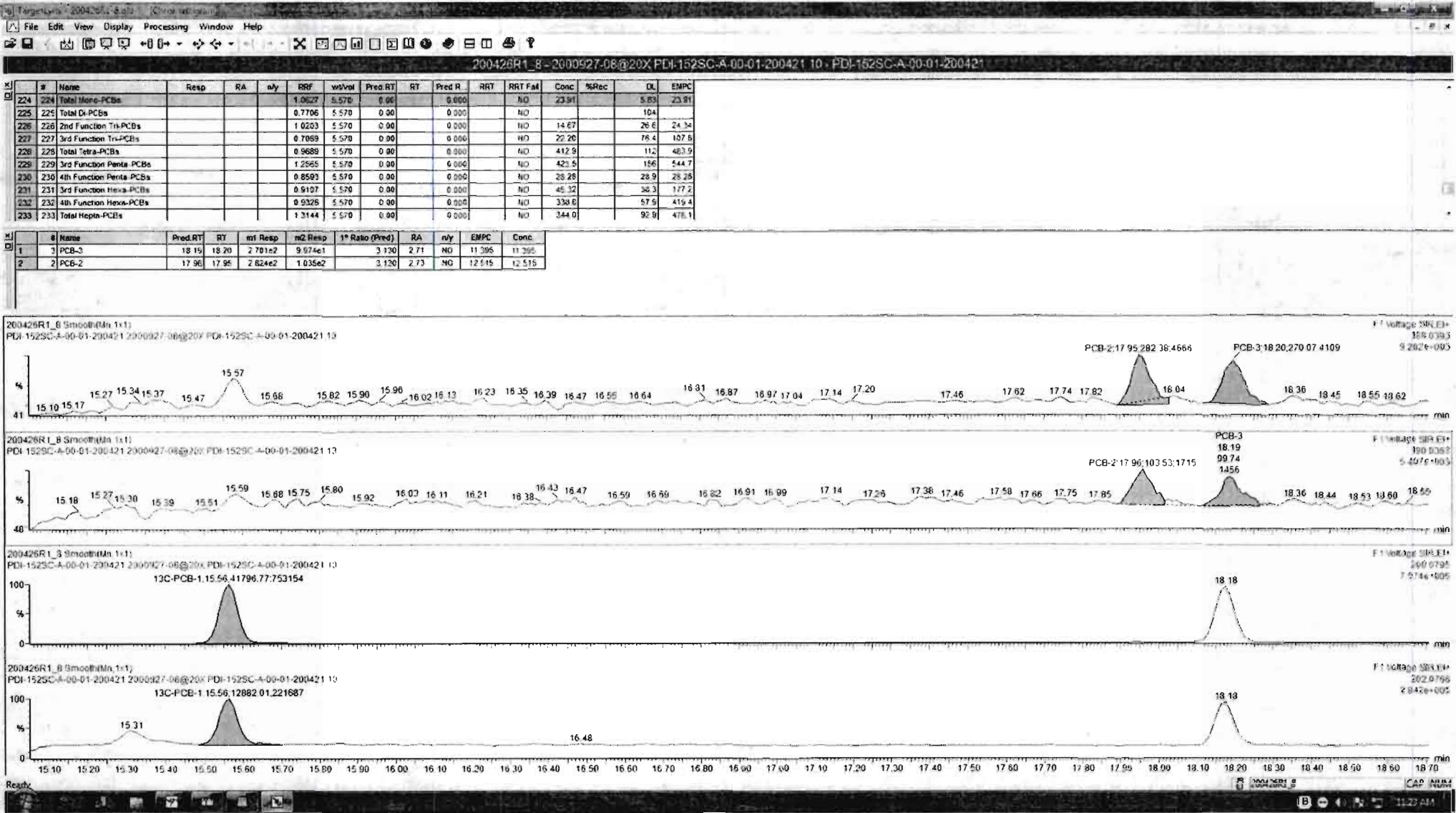


13C-PCB-1



PFK1



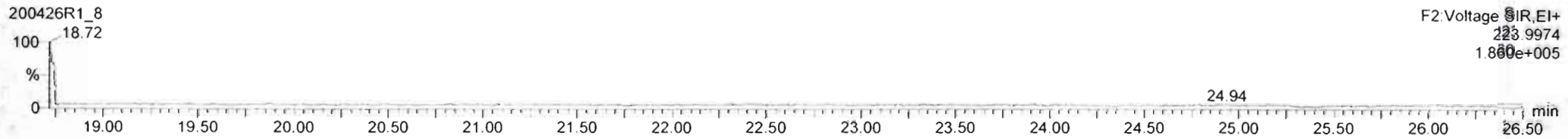
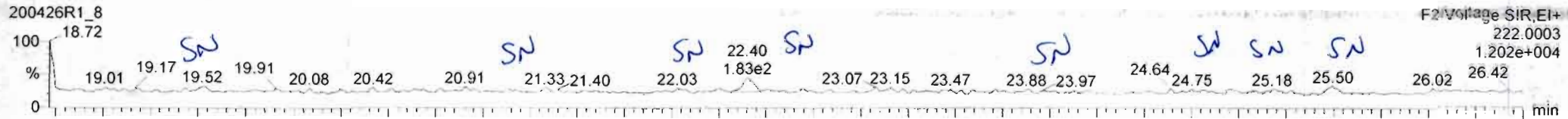


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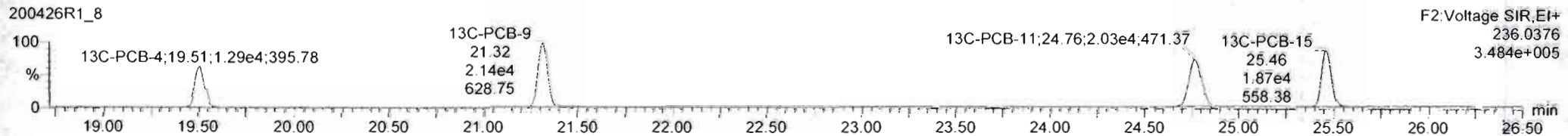
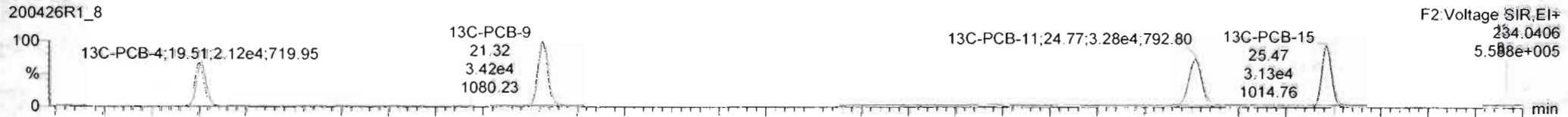
Last Altered: Monday, April 27, 2020 09:50:10 Pacific Daylight Time  
Printed: Monday, April 27, 2020 09:50:27 Pacific Daylight Time

Name: 200426R1\_8, Date: 26-Apr-2020, Time: 18:48:42, ID: 2000927-08@20X PDI-152SC-A-00-01-200421 10, Description: PDI-152SC-A-00-01-200421

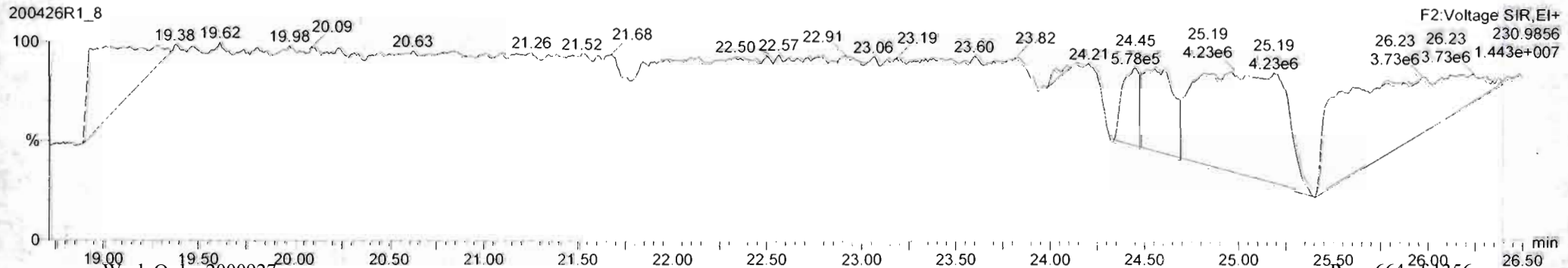
PCB-4/10



13C-PCB-4



PFK2a

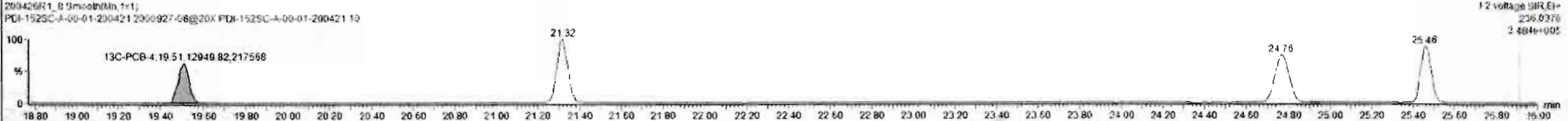
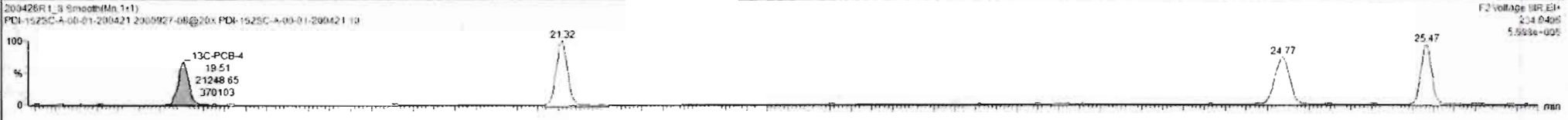
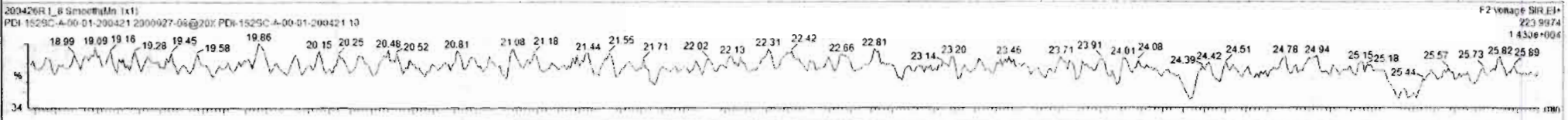
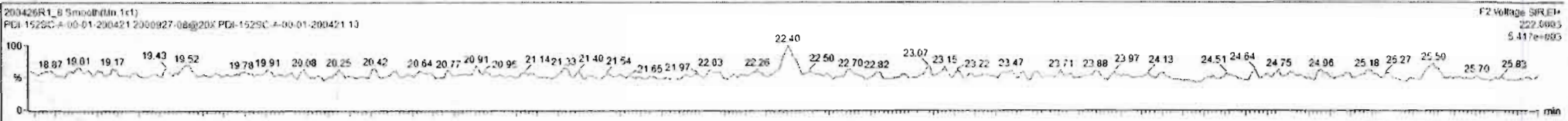




200426R1\_8 - 2000927-08@20X PDI-152SC-A-00-01-200421 10 - PDI-152SC-A-00-01-200421

#	Name	Resp	RA	nly	RRF	wVal	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0627	5.570	0.00		0.000		NO	23.91		5.83	23.91
225	225 Total Di-PCBs				6.7708	5.570	0.00		0.000		NO			124	
226	226 2nd Function Tri-PCBs				1.0203	5.570	0.00		0.000		NO	14.67		26.5	24.34
227	227 3rd Function Tri-PCBs				0.7069	5.570	0.00		0.000		NO	22.20		76.4	167.8
228	228 Total Tetra-PCBs				0.9689	5.570	0.00		0.000		NO	412.9		112	483.9
229	229 3rd Function Penta-PCBs				1.2565	5.570	0.00		0.000		NO	423.5		156	544.7
230	230 4th Function Penta-PCBs				0.8593	5.570	0.00		0.000		NO	28.28		28.9	28.28
231	231 3rd Function Hexa-PCBs				0.9107	5.570	0.00		0.000		NO	45.32		38.3	177.2
232	232 4th Function Hexa-PCBs				0.9328	5.570	0.00		0.000		NO	338.8		57.9	419.4
233	233 Total Hepta-PCBs				1.3144	5.570	0.00		0.000		NO	344.0		92.9	472.1

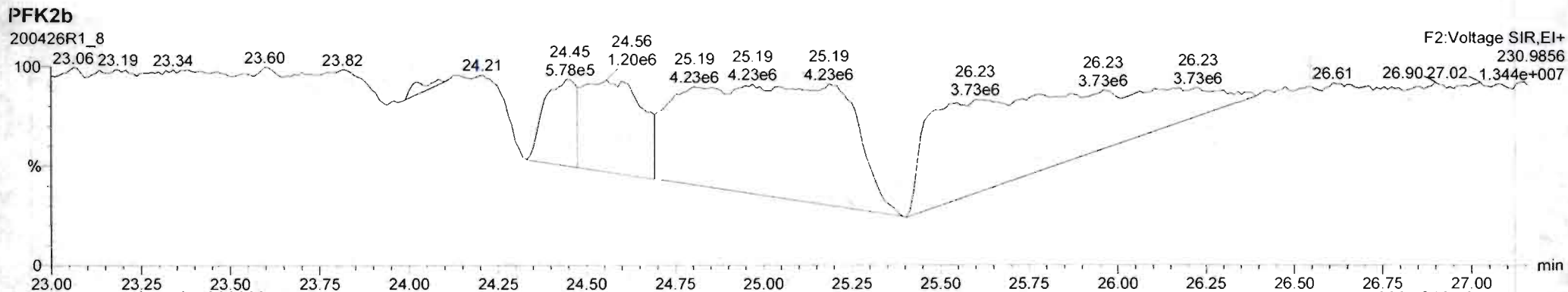
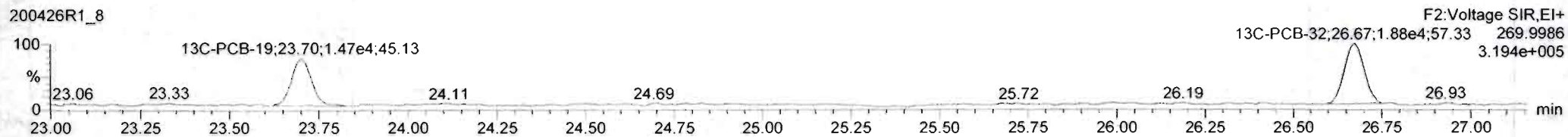
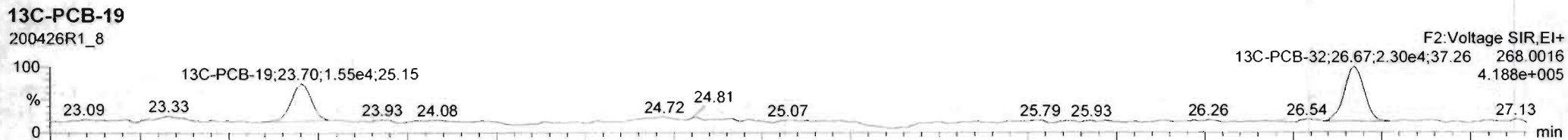
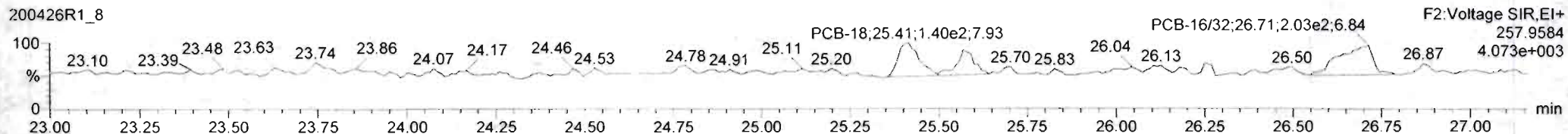
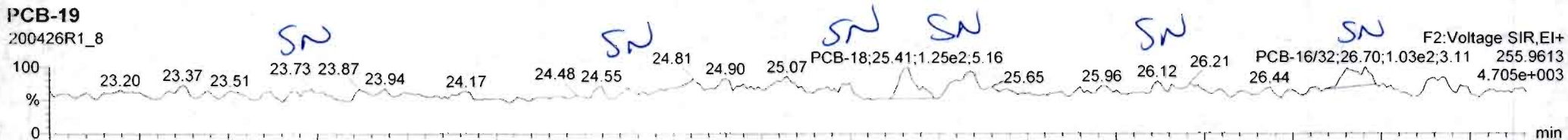
#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	nly	EMPC	Conc.
1										



Dataset: Untitled

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Printed: Monday, April 27, 2020 09:50:27 Pacific Daylight Time

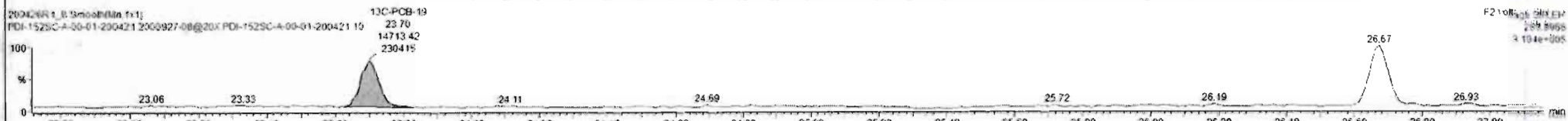
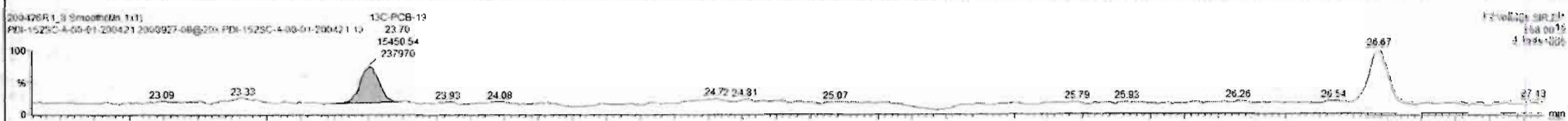
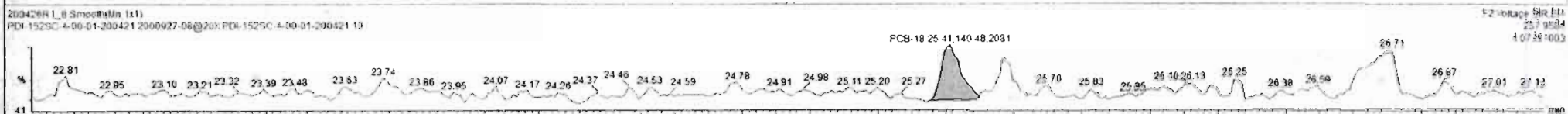
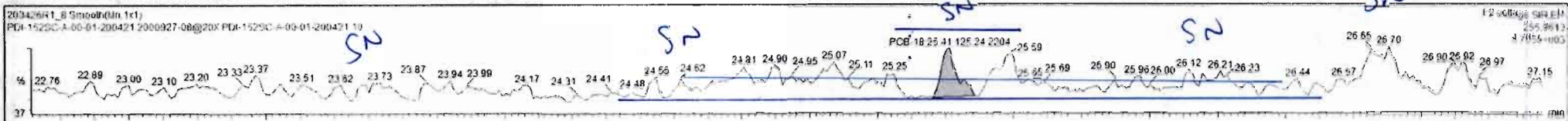
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200426R1\_8 - 2000927-08@20X.PDI-152SC-A-00-01-200421-10 - PDI-152SC-A-00-01-200421

#	Name	Resp	RA	n/y	RRF	wVal	Pred RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0627	5.570	0.00		0.000		NO	23.91		5.83	23.91
225	225 Total Di-PCBs				0.7726	5.570	0.00		0.000		NO			10.4	
226	226 2nd Function Tri-PCBs				1.0203	5.570	0.00		0.000		NO	14.67		26.0	14.67
227	227 3rd Function Tri-PCBs				0.7059	5.570	0.00		0.000		NO	27.20		76.4	107.8
228	228 Total Tetra-PCBs				0.9693	5.570	0.00		0.000		NO	412.9		112	403.9
229	229 3rd Function Penta-PCBs				1.2565	5.570	0.00		0.000		NO	423.5		156	544.7
230	230 4th Function Penta-PCBs				0.8593	5.570	0.00		0.000		NO	28.28		23.9	28.28
231	231 3rd Function Hexa-PCBs				0.9107	5.570	0.00		0.000		NO	45.32		38.3	177.2
232	232 4th Function Hexa-PCBs				0.9325	5.570	0.00		0.000		NO	338.6		57.9	419.4
233	233 Total Hepta-PCBs				1.3144	5.570	0.00		0.000		NO	344.0		92.9	478.1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	14 PCB-18	25.39	25.41	1.252e2	1.405e2	1.040	0.59	NO	14.668	14.668



## **CONTINUING CALIBRATION**



Dataset: U:\VG12.PRO\Results\200501R1\200501R1-1.qld

Last Altered: Friday, May 01, 2020 9:48:11 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:49:05 AM Pacific Daylight Time

*GRB 05/01/2020*

*CR 05/04/2020*

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

Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.52e5	1.51e6	0.74	NO	0.947	26.01	26.00	NO	1.001	1.001	10.579	106	NO
2	2 1,2,3,7,8-PeCDD	5.32e5	1.14e6	0.63	NO	0.942	31.12	31.11	NO	1.001	1.000	49.559	99.1	NO
3	3 1,2,3,4,7,8-HxCDD	4.82e5	8.96e5	1.24	NO	1.06	34.47	34.48	NO	1.000	1.001	50.633	101	NO
4	4 1,2,3,6,7,8-HxCDD	5.39e5	1.14e6	1.26	NO	0.915	34.57	34.58	NO	1.000	1.000	51.690	103	NO
5	5 1,2,3,7,8,9-HxCDD	5.10e5	1.09e6	1.25	NO	0.915	34.85	34.86	NO	1.000	1.001	51.086	102	NO
6	6 1,2,3,4,6,7,8-HpCDD	4.08e5	8.65e5	0.99	NO	0.898	38.34	38.35	NO	1.000	1.001	52.526	105	NO
7	7 OCDD	7.17e5	1.46e6	0.88	NO	0.933	41.32	41.33	NO	1.000	1.000	105.03	105	NO
8	8 2,3,7,8-TCDF	1.78e5	2.19e6	0.76	NO	0.787	25.06	25.05	NO	1.001	1.001	10.360	104	NO
9	9 1,2,3,7,8-PeCDF	8.42e5	1.78e6	1.57	NO	0.910	29.80	29.80	NO	1.001	1.001	51.944	104	NO
10	10 2,3,4,7,8-PeCDF	8.24e5	1.67e6	1.53	NO	0.966	30.80	30.79	NO	1.001	1.000	51.131	102	NO
11	11 1,2,3,4,7,8-HxCDF	5.94e5	1.26e6	1.20	NO	0.878	33.61	33.62	NO	1.000	1.000	53.485	107	NO
12	12 1,2,3,6,7,8-HxCDF	6.49e5	1.41e6	1.21	NO	0.874	33.74	33.74	NO	1.000	1.000	52.587	105	NO
13	13 2,3,4,6,7,8-HxCDF	6.20e5	1.27e6	1.21	NO	0.922	34.33	34.30	NO	1.001	1.000	52.995	106	NO
14	14 1,2,3,7,8,9-HxCDF	4.75e5	1.04e6	1.19	NO	0.864	35.18	35.19	NO	1.000	1.000	52.665	105	NO
15	15 1,2,3,4,6,7,8-HpCDF	5.03e5	1.11e6	0.98	NO	0.871	36.95	36.92	NO	1.001	1.000	52.002	104	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.33e5	6.31e5	0.99	NO	1.01	38.91	38.93	NO	1.000	1.000	52.260	105	NO
17	17 OCDF	6.58e5	1.55e6	0.87	NO	0.802	41.49	41.50	NO	1.000	1.000	106.18	106	NO
18	18 13C-2,3,7,8-TCDD	1.51e6	1.32e6	0.78	NO	1.16	25.97	25.97	NO	1.026	1.027	99.058	99.1	NO
19	19 13C-1,2,3,7,8-PeCDD	1.14e6	1.32e6	0.63	NO	0.847	31.05	31.09	NO	1.227	1.229	102.04	102	NO
20	20 13C-1,2,3,4,7,8-HxCDD	8.96e5	1.21e6	1.28	NO	0.750	34.47	34.46	NO	1.014	1.014	98.837	98.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.14e6	1.21e6	1.28	NO	0.963	34.59	34.57	NO	1.017	1.017	98.087	98.1	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.09e6	1.21e6	1.24	NO	0.838	34.85	34.84	NO	1.025	1.025	107.93	108	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.65e5	1.21e6	1.06	NO	0.641	38.34	38.33	NO	1.128	1.128	111.59	112	NO
24	24 13C-OCDD	1.46e6	1.21e6	0.90	NO	0.586	41.33	41.32	NO	1.216	1.216	206.50	103	NO
25	25 13C-2,3,7,8-TCDF	2.19e6	2.05e6	0.77	NO	1.03	25.03	25.03	NO	0.989	0.989	103.35	103	NO
26	26 13C-1,2,3,7,8-PeCDF	1.78e6	2.05e6	1.60	NO	0.845	29.74	29.78	NO	1.176	1.177	103.02	103	NO
27	27 13C-2,3,4,7,8-PeCDF	1.67e6	2.05e6	1.57	NO	0.814	30.73	30.77	NO	1.215	1.216	100.11	100	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.26e6	1.21e6	0.51	NO	1.00	33.61	33.61	NO	0.989	0.989	104.19	104	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.41e6	1.21e6	0.52	NO	1.14	33.74	33.73	NO	0.992	0.992	102.78	103	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.27e6	1.21e6	0.51	NO	1.02	34.30	34.29	NO	1.009	1.009	102.69	103	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.04e6	1.21e6	0.51	NO	0.845	35.19	35.18	NO	1.035	1.035	102.31	102	NO

Dataset: U:\VG12.PRO\Results\200501R1\200501R1-1.qld

Last Altered: Friday, May 01, 2020 9:48:11 AM Pacific Daylight Time

Printed: Friday, May 01, 2020 9:49:05 AM Pacific Daylight Time

Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	1.11e6	1.21e6	0.42	NO	0.771	36.92	36.91	NO	1.086	1.086	119.26	119	NO
33	13C-1,2,3,4,7,8,9-HpCDF	6.31e5	1.21e6	0.42	NO	0.482	38.93	38.91	NO	1.145	1.145	108.23	108	NO
34	13C-OCDF	1.55e6	1.21e6	0.88	NO	0.669	41.50	41.49	NO	1.221	1.221	191.34	95.7	NO
35	37Cl-2,3,7,8-TCDD	1.40e5	1.32e6			1.10	26.00	26.00	NO	1.028	1.028	9.7124	97.1	NO
36	13C-1,2,3,4-TCDD	1.32e6	1.32e6	0.83	NO	1.00	25.35	25.30	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	2.05e6	2.05e6	0.79	NO	1.00	23.56	23.51	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.21e6	1.21e6	0.51	NO	1.00	34.00	33.99	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Friday, May 01, 2020 9:49:44 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:50:00 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.81
2	1,2,8,9-TCDD (Last)	27.01
3	1,2,4,7,9-PeCDD (First)	28.85
4	1,2,3,8,9-PeCDD (Last)	31.49
5	1,2,4,6,7,9-HxCDD (First)	33.00
6	1,2,3,7,8,9-HxCDD (Last)	34.86
7	1,2,3,4,6,7,9-HpCDD (First)	37.32
8	1,2,3,4,6,7,8-HpCDD (Last)	38.35
9	1,3,6,8-TCDF (First)	19.75
10	1,2,8,9-TCDF (Last)	27.14
11	1,3,4,6,8-PeCDF (First)	27.13
12	1,2,3,8,9-PeCDF (Last)	31.74
13	1,2,3,4,6,8-HxCDF (First)	32.45
14	1,2,3,7,8,9-HxCDF (Last)	35.19
15	1,2,3,4,6,7,8-HpCDF (First)	36.92
16	1,2,3,4,7,8,9-HpCDF (Last)	38.93



Dataset: Untitled

Last Altered: Friday, May 01, 2020 9:49:44 AM Pacific Daylight Time

Printed: Friday, May 01, 2020 9:50:00 AM Pacific Daylight Time

GRB 05/01/2020

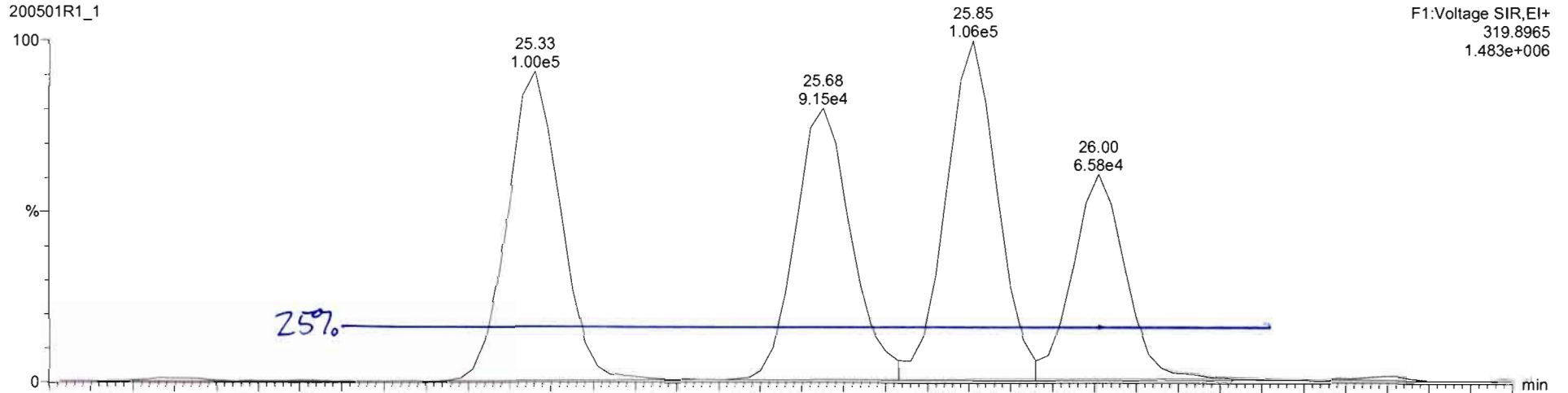
Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

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

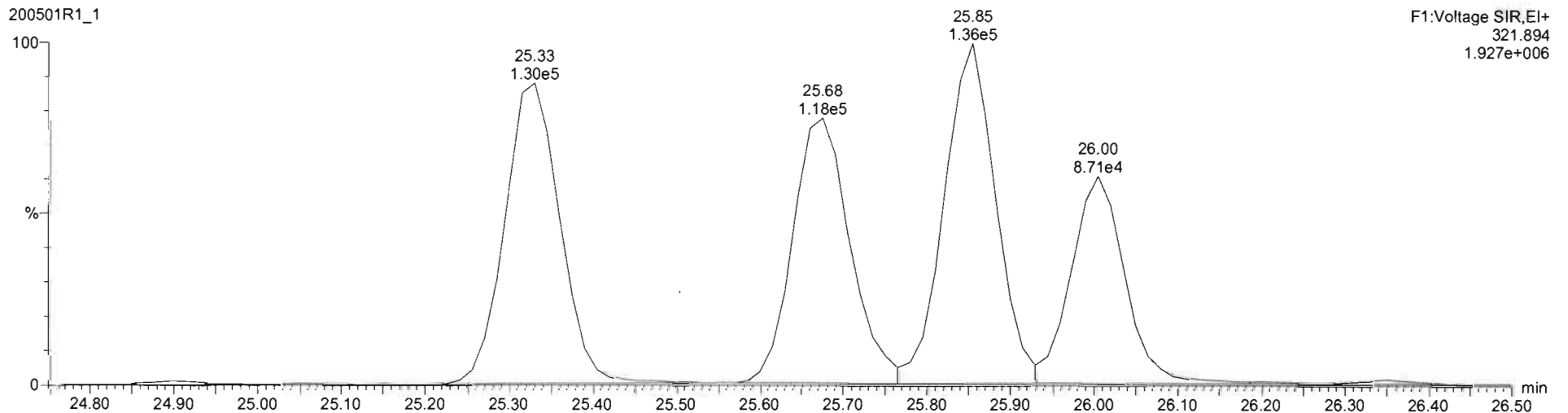
Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200501R1\_1



200501R1\_1



Dataset: Untitled

Last Altered: Friday, May 01, 2020 2:33:16 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 2:33:28 PM Pacific Daylight Time

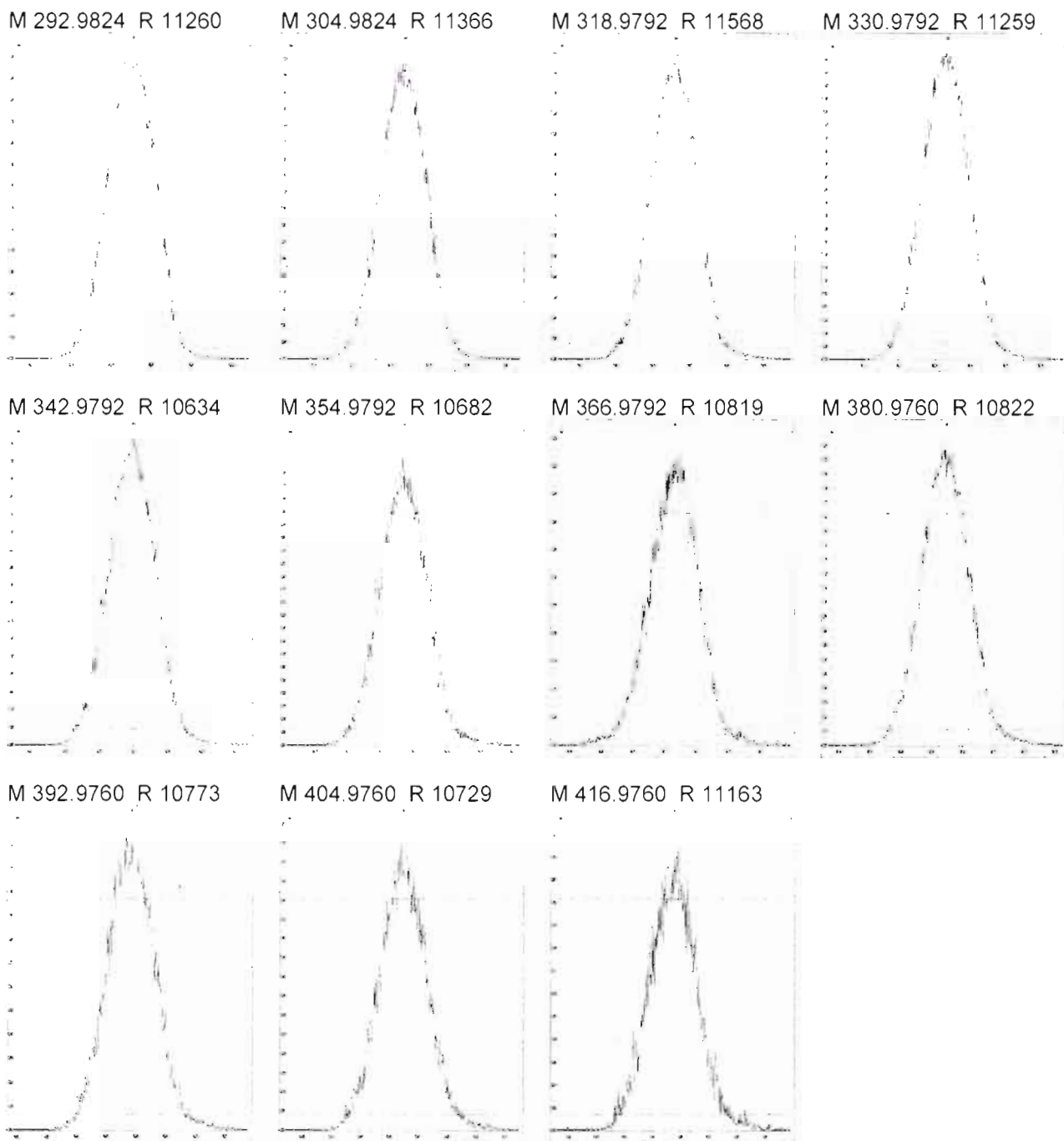
Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

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

	Name	ID	Acq.Date	Acq.Time
1	200501R1_1	ST200501R1_1 1613 CS3 19L2305	01-May-20	08:58:46
2	200501R1_2	B0D0264-BS1 OPR 10	01-May-20	09:45:38
3	200501R1_3	SOLVENT BLANK	01-May-20	10:31:49
4	200501R1_4	B0D0264-BLK1 Method Blank 10	01-May-20	11:21:06
5	200501R1_5	B0D0264-DUP1 Duplicate 11.31	01-May-20	12:08:21
6	200501R1_6	2000927-01 PDI-151SC-A-01-02-200421 11.28	01-May-20	12:54:32
7	200501R1_7	2000927-02 PDI-151SC-A-02-03-200421 12.04	01-May-20	13:40:49

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

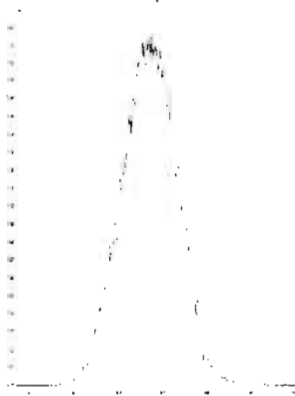
Printed: Friday, May 01, 2020 08:54:49 Pacific Daylight Time



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

Printed: Friday, May 01, 2020 08:55:40 Pacific Daylight Time

M 318.9792 R 10965



M 330.9792 R 11414



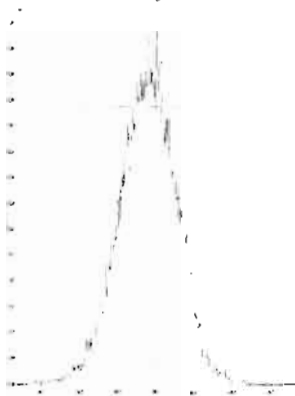
M 342.9792 R 11212



M 354.9792 R 10916



M 366.9792 R 10919



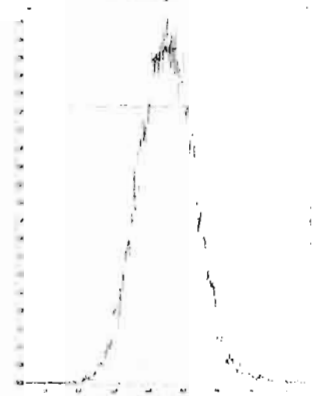
M 380.9760 R 10965



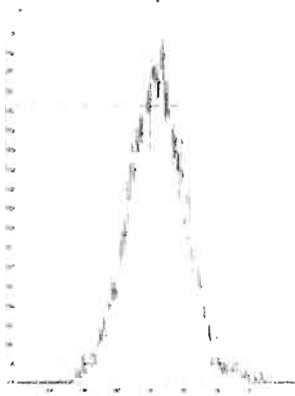
M 392.9760 R 11011



M 404.9760 R 11211



M 416.9760 R 12253



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

Printed: Friday, May 01, 2020 08:56:23 Pacific Daylight Time

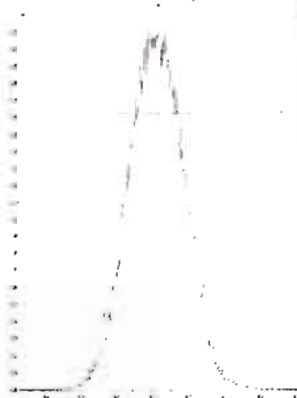
M 366.9792 R 10727



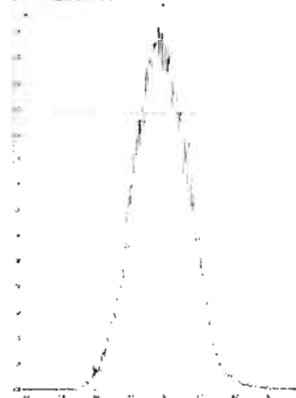
M 380.9760 R 11262



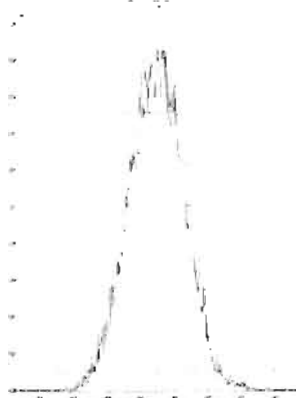
M 392.9760 R 11012



M 404.9760 R 11212



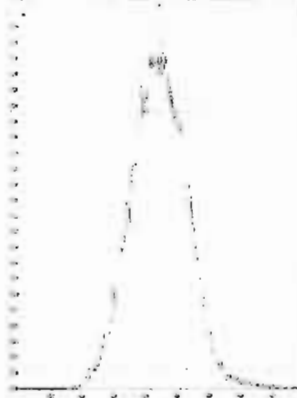
M 416.9760 R 11363



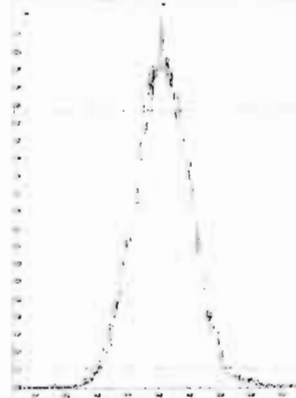
M 430.9728 R 11259



M 442.9728 R 10917



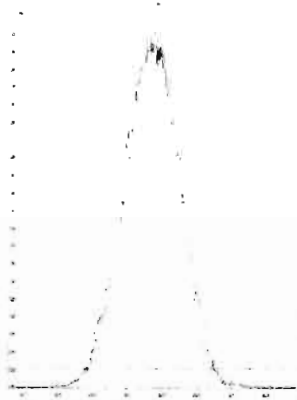
M 454.9728 R 10915



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

Printed: Friday, May 01, 2020 08:57:00 Pacific Daylight Time

M 404.9760 R 11413



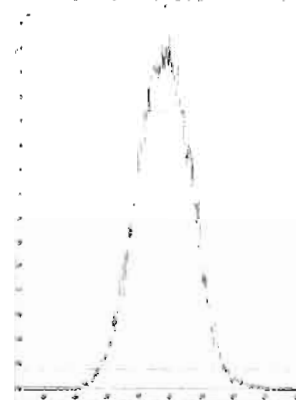
M 416.9760 R 11468



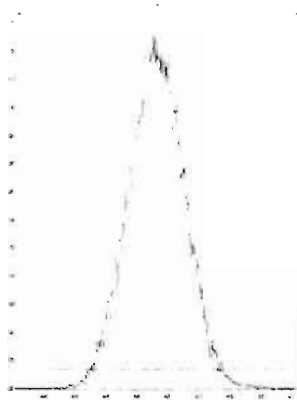
M 430.9728 R 11362



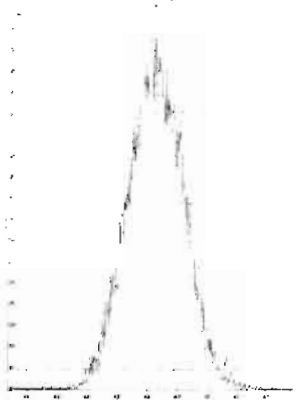
M 442.9728 R 10962



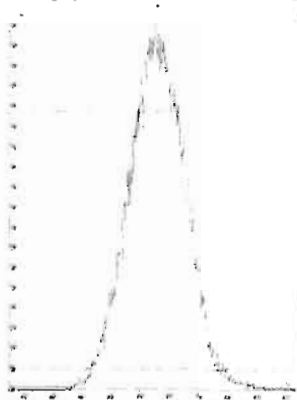
M 454.9728 R 11311



M 466.9728 R 11413



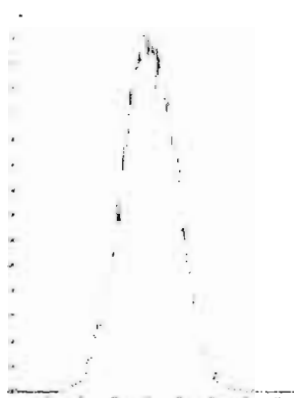
M 480.9696 R 11111



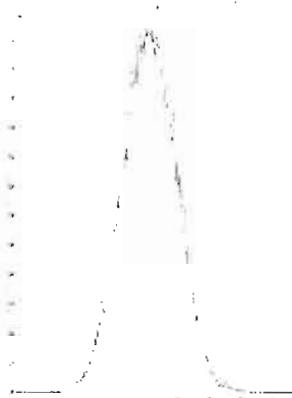
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, May 01, 2020 08:57:38 Pacific Daylight Time

M 430.9728 R 11111



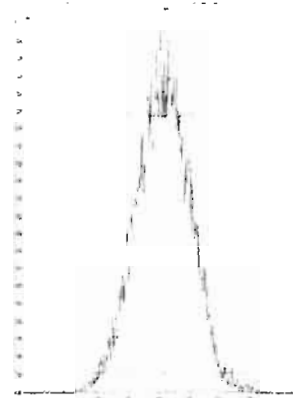
M 442.9728 R 11519



M 454.9728 R 11158



M 466.9728 R 11520



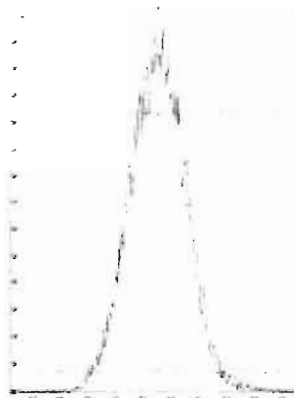
M 480.9696 R 11259



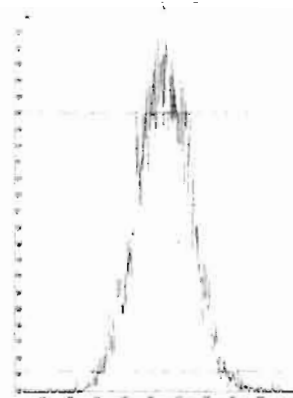
M 492.9696 R 11258



M 504.9696 R 11163



M 516.9697 R 12020



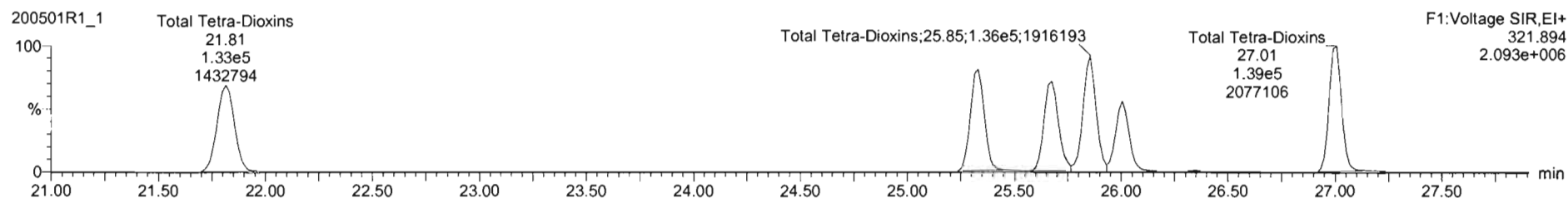
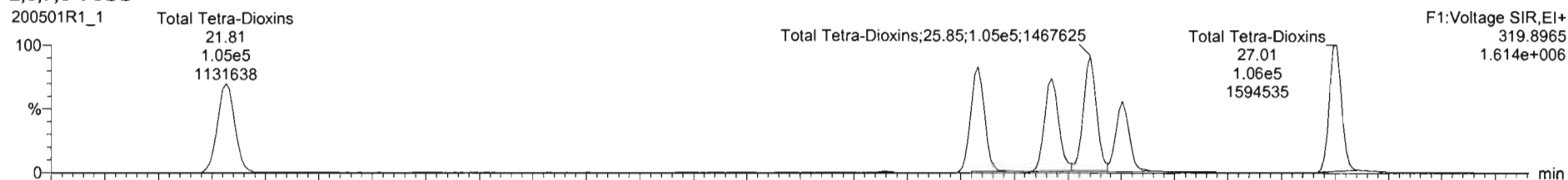
Dataset: Untitled

Last Altered: Friday, May 01, 2020 9:49:20 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

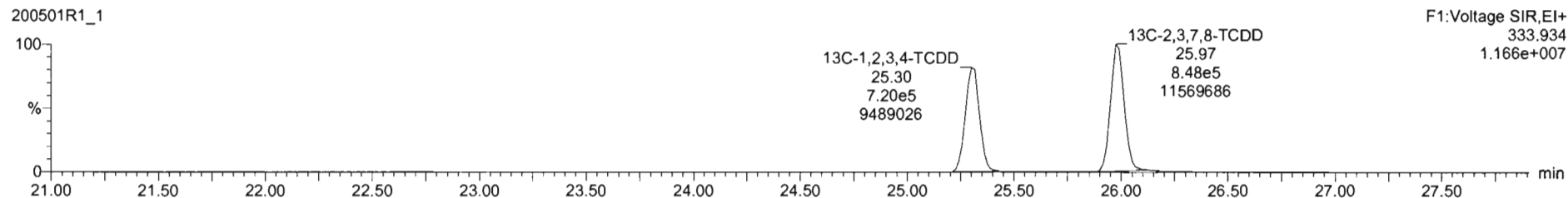
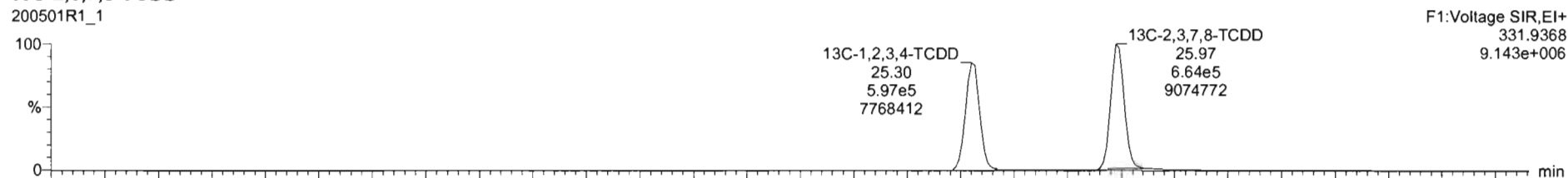
Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

### 2,3,7,8-TCDD



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





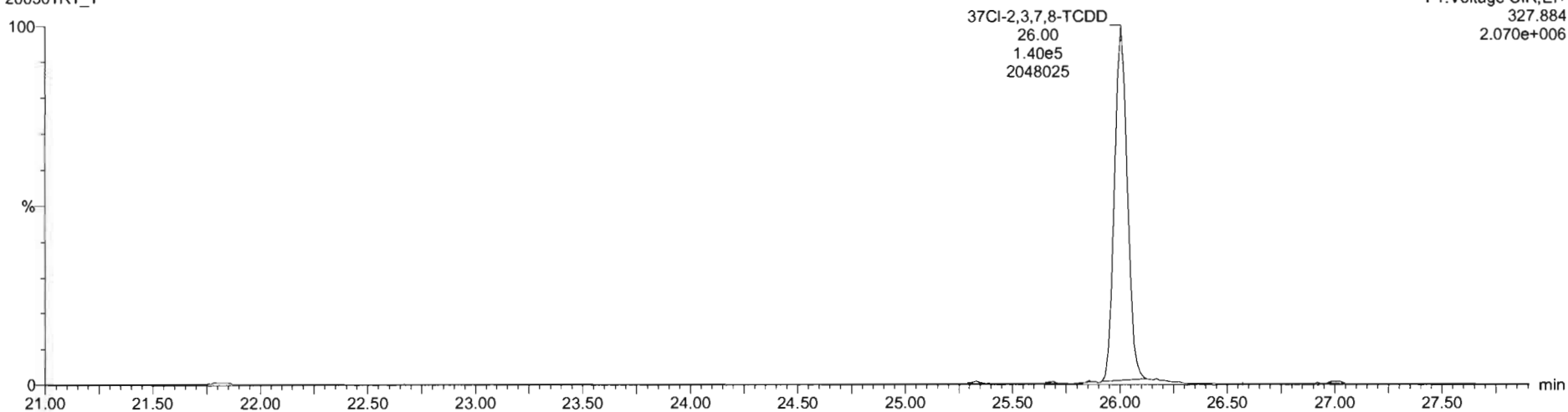
Dataset: Untitled

Last Altered: Friday, May 01, 2020 9:49:20 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

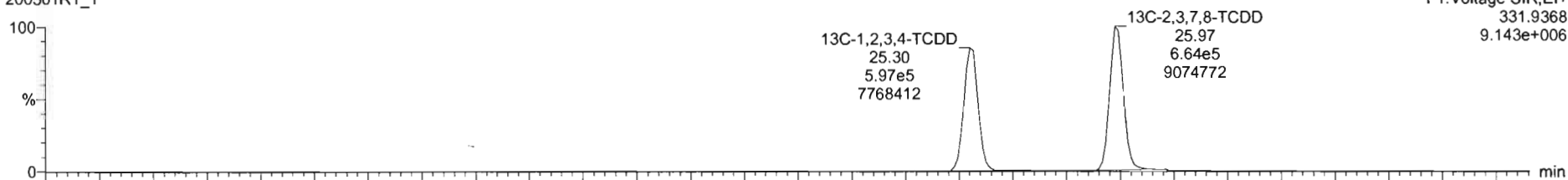
**37Cl-2,3,7,8-TCDD**

200501R1\_1

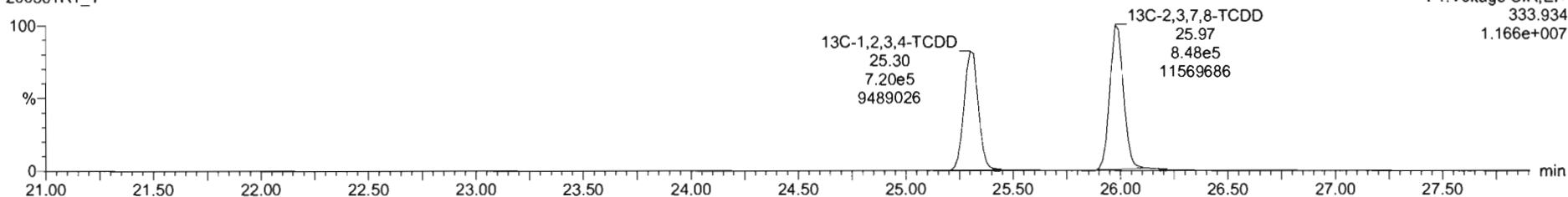


**13C-1,2,3,4-TCDD**

200501R1\_1



200501R1\_1

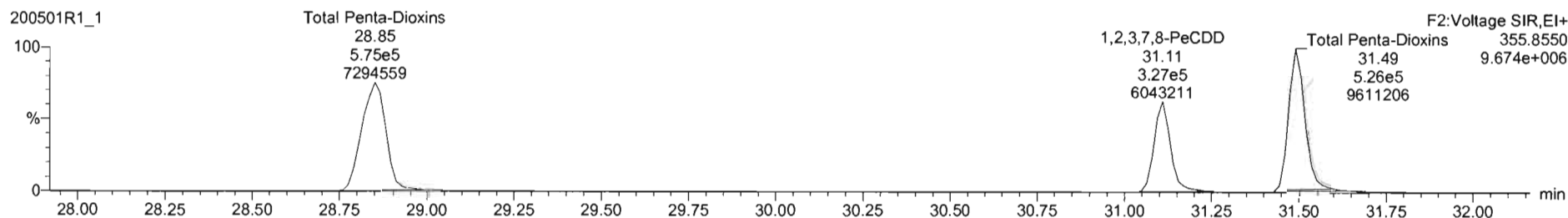
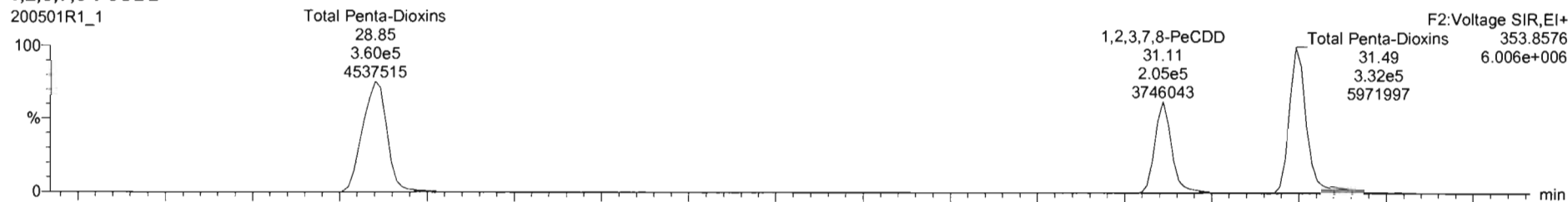


Dataset: Untitled

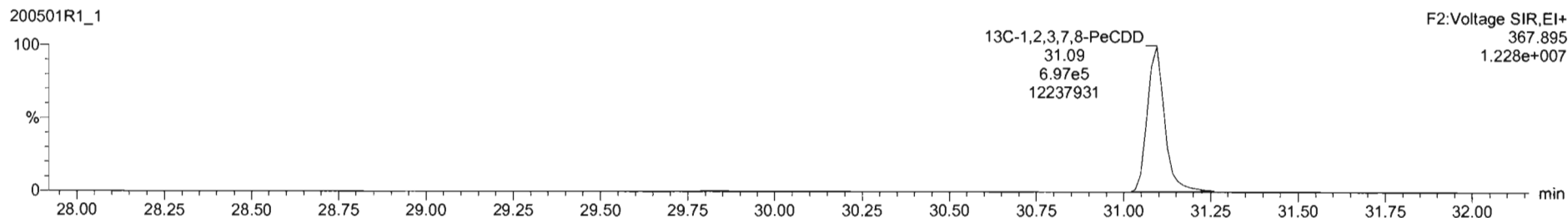
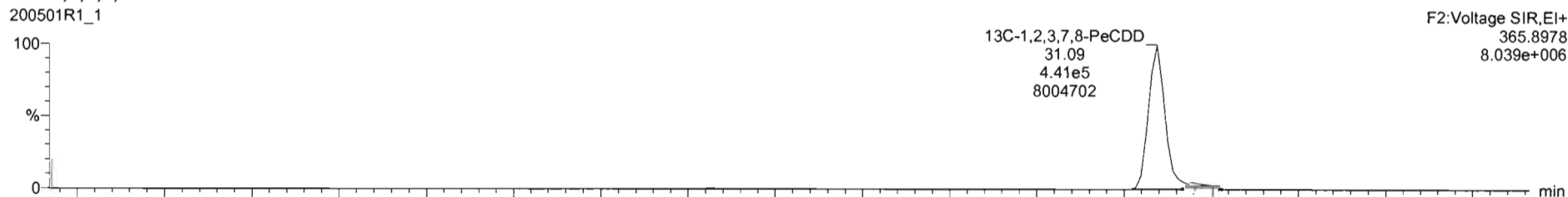
Last Altered: Friday, May 01, 2020 9:49:20 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD



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



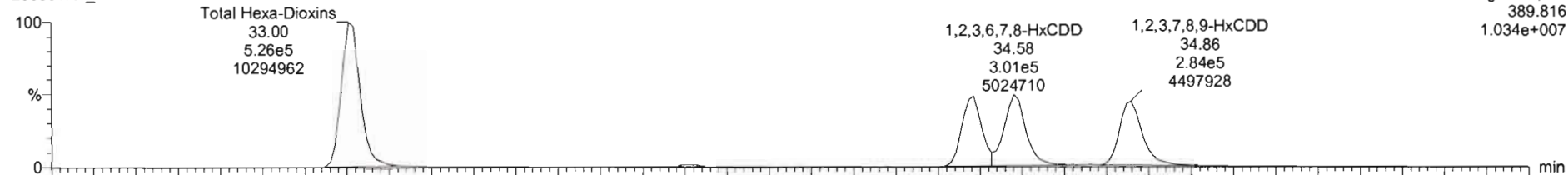
Dataset: Untitled

Last Altered: Friday, May 01, 2020 9:49:20 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

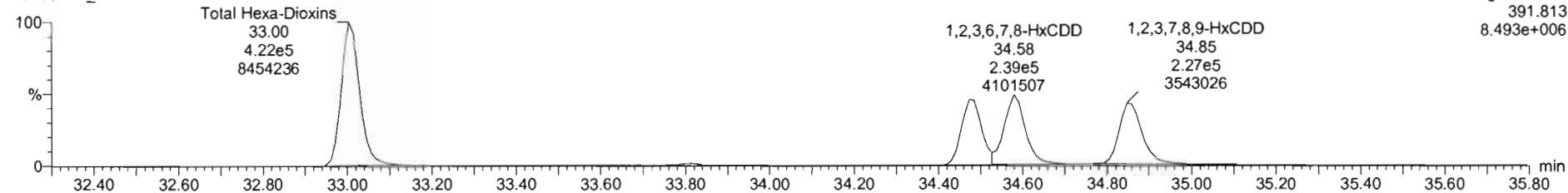
Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200501R1\_1

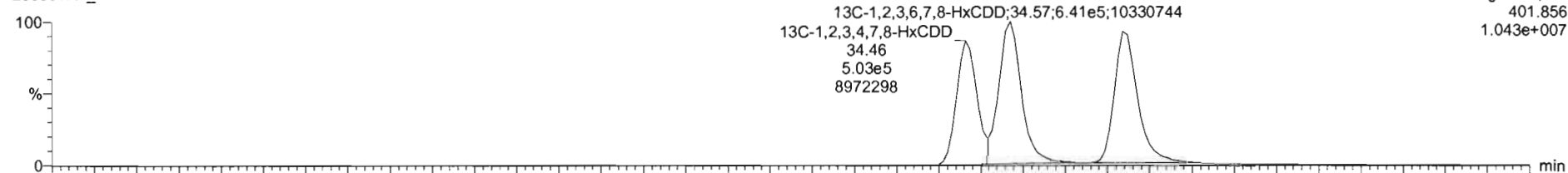


200501R1\_1

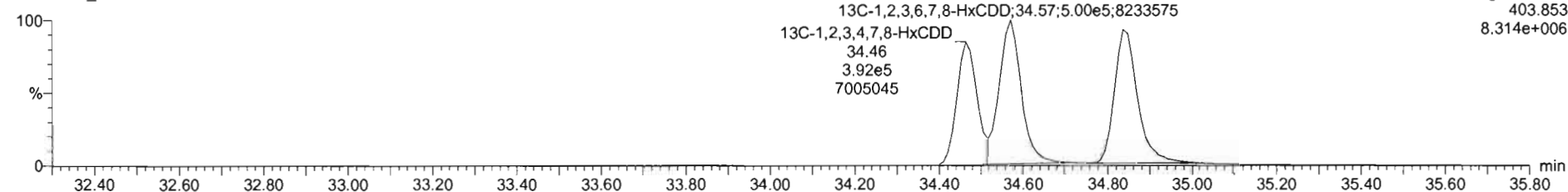


**13C-1,2,3,4,7,8-HxCDD**

200501R1\_1



200501R1\_1



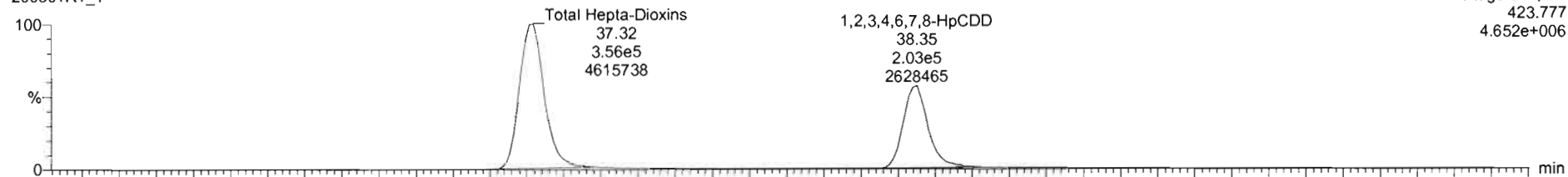
Dataset: Untitled

Last Altered: Friday, May 01, 2020 9:49:20 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

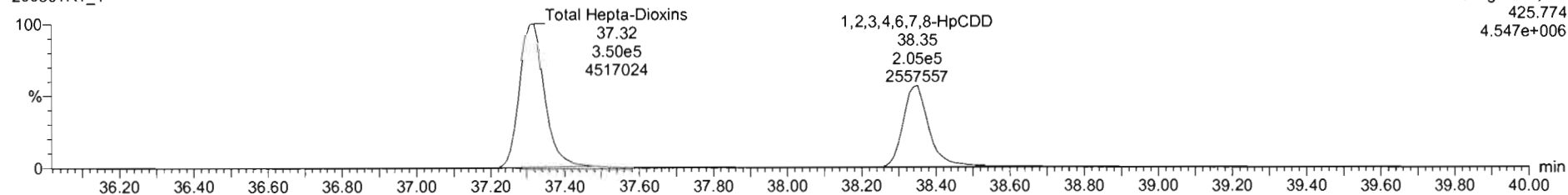
1,2,3,4,6,7,8-HpCDD

200501R1\_1



F4:Voltage SIR,EI+  
423.777  
4.652e+006

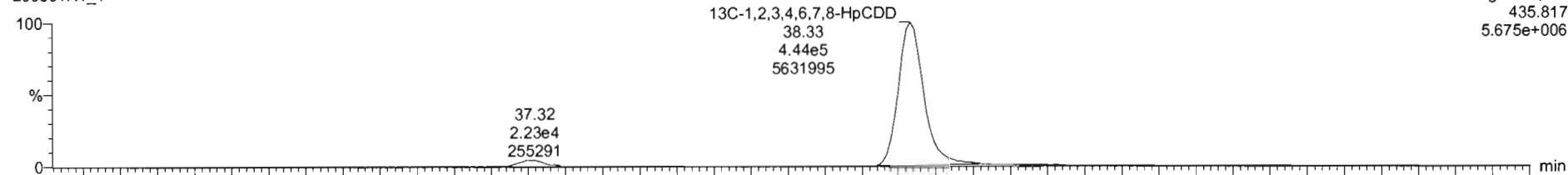
200501R1\_1



F4:Voltage SIR,EI+  
425.774  
4.547e+006

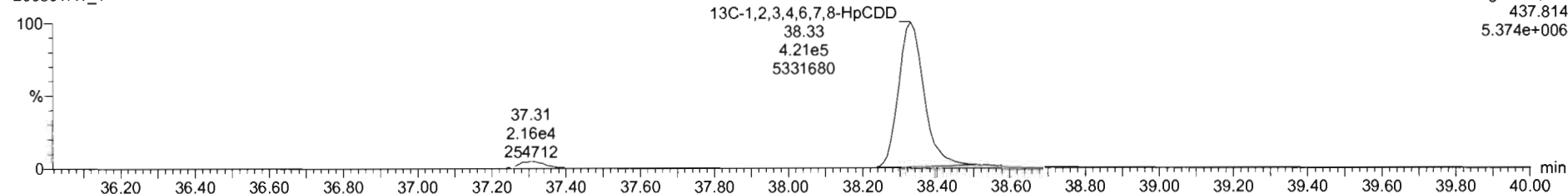
13C-1,2,3,4,6,7,8-HpCDD

200501R1\_1



F4:Voltage SIR,EI+  
435.817  
5.675e+006

200501R1\_1



F4:Voltage SIR,EI+  
437.814  
5.374e+006

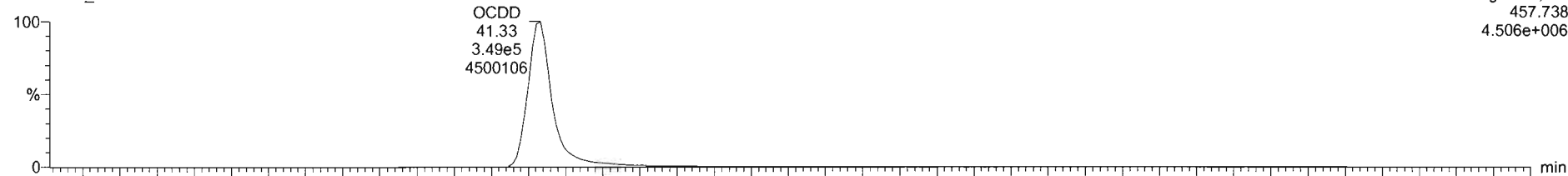
Dataset: Untitled

Last Altered: Friday, May 01, 2020 9:49:20 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

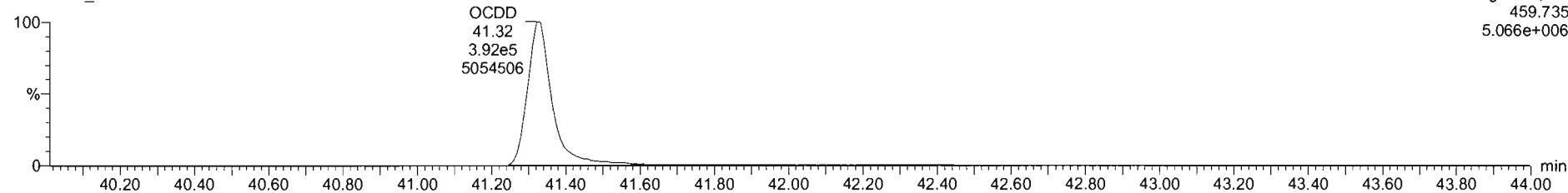
Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**OCDD**

200501R1\_1

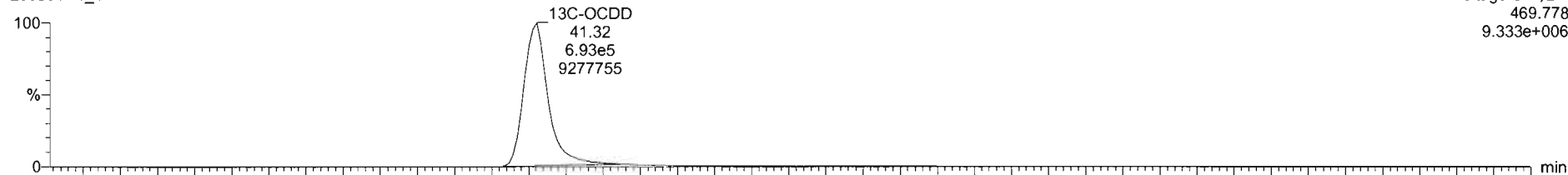


200501R1\_1

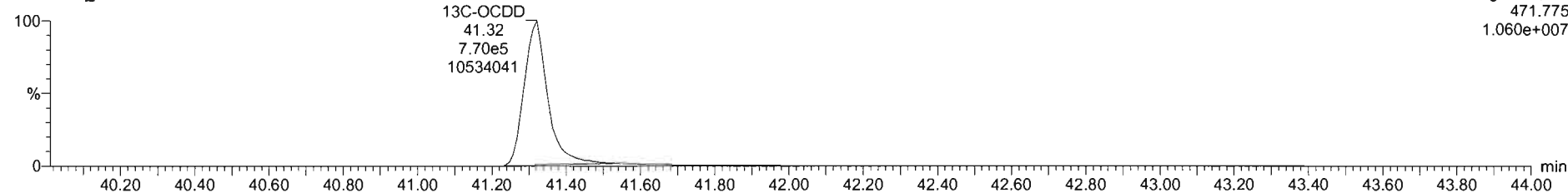


**13C-OCDD**

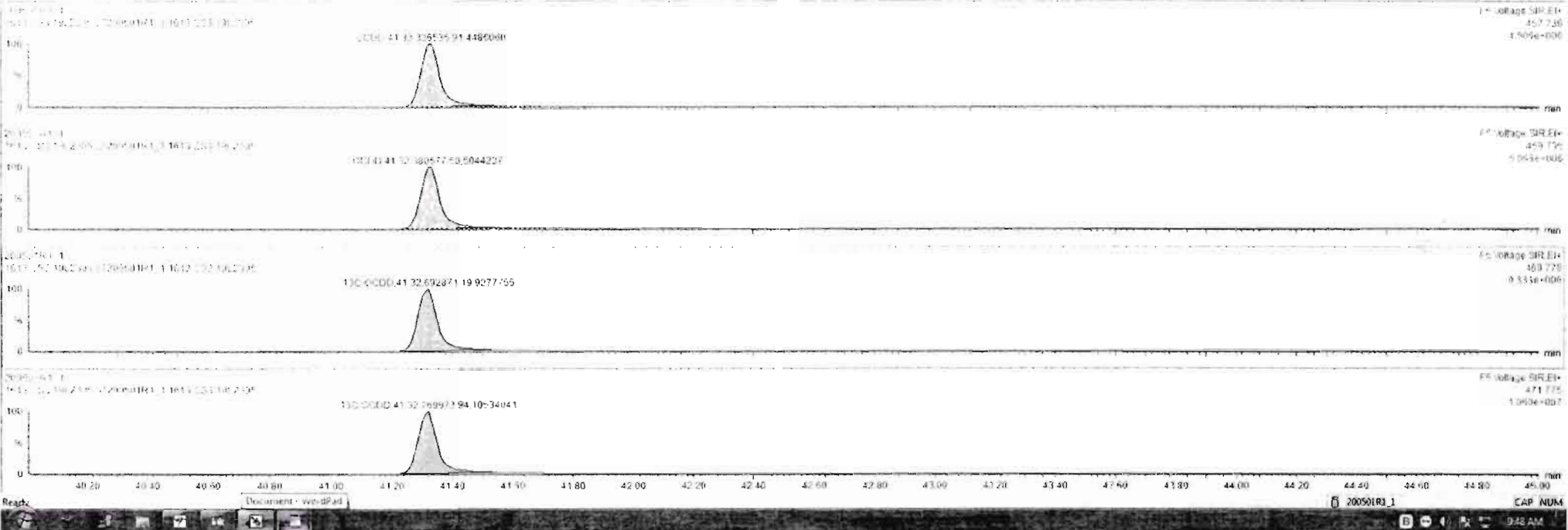
200501R1\_1



200501R1\_1



#	Name	Resp	Q Resp	Pred RA	RA	nly	RRF	PredRT	RT	RT Flag	PredRET	RET	Coac	%Rec	STD out
1	1.2 1.6 7.0 CD	1.52e5	1.14e6	0.77	0.74	NO	0.945	28.01	28.00	NO	1.001	1.001	10.0	100	NO
2	1.2 1.7 8.0 CD	5.32e5	1.14e6	0.67	0.63	NO	0.9425	31.12	31.11	NO	1.001	1.000	49.6	96.1	NO
3	1.2 1.7 8.0 H-CD	4.02e5	8.05e5	1.24	1.24	NO	1.0841	24.47	24.48	NO	1.000	1.001	56.8	101	NO
4	1.2 1.7 8.0 H-CD	5.29e5	1.14e6	1.74	1.20	NO	0.9145	24.57	24.58	NO	1.000	1.000	51.7	107	NO
5	1.2 1.7 8.0 H-CD	5.10e5	1.09e6	1.24	1.20	NO	0.9149	24.85	24.86	NO	1.000	1.001	51.1	102	NO
6	1.2 1.7 8.0 H-CD	4.08e5	8.05e5	1.54	0.86	NO	0.9275	26.34	26.24	NO	1.000	1.001	52.1	105	NO
7	7.0 CD	7.17e5	1.48e6	0.80	0.88	NO	0.8355	41.32	41.33	NO	1.000	1.000	105	105	NO
8	1.2 1.7 8.0 CD	1.74e5	2.19e6	0.77	0.76	NO	0.7371	25.06	25.05	NO	1.001	1.001	16.4	104	NO
9	1.2 1.7 8.0 H-CD	8.42e5	1.76e6	1.55	1.57	NO	0.9102	29.80	29.80	NO	1.001	1.001	51.9	104	NO
10	1.2 1.7 8.0 H-CD	8.24e5	1.67e6	1.55	1.52	NO	0.9064	30.80	30.79	NO	1.001	1.000	51.1	103	NO
11	1.2 1.7 8.0 H-CD	5.94e5	1.28e6	1.24	1.20	NO	0.8782	32.91	33.62	NO	1.000	1.000	52.5	107	NO
12	1.2 1.7 8.0 H-CD	6.49e5	1.41e6	1.04	1.21	NO	0.8742	32.74	33.74	NO	1.000	1.000	52.6	107	NO
13	1.2 1.7 8.0 H-CD	8.20e5	1.27e6	1.24	1.21	NO	0.9217	34.33	34.30	NO	1.001	1.000	53.0	106	NO
14	1.2 1.7 8.0 H-CD	4.75e5	1.04e6	1.24	1.10	NO	0.9442	35.18	35.15	NO	1.000	1.000	52.7	107	NO
15	1.2 1.7 8.0 H-CD	5.03e5	1.11e6	1.54	0.88	NO	0.9112	36.95	36.92	NO	1.001	1.000	52.5	104	NO
16	1.2 1.7 8.0 H-CD	3.32e5	8.71e5	1.54	0.86	NO	0.9715	26.51	26.93	NO	1.000	1.000	52.7	105	NO
17	7.0 CD	6.76e5	1.55e6	0.85	0.87	NO	0.9823	41.48	41.58	NO	1.000	1.000	106	106	NO

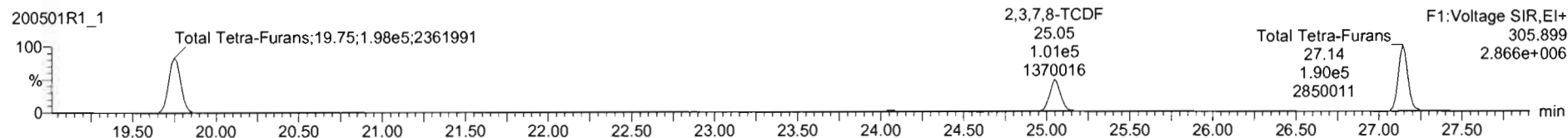


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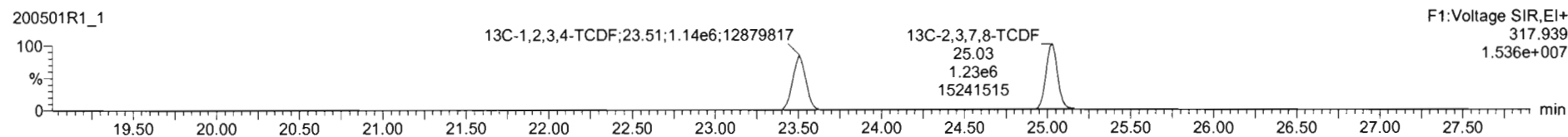
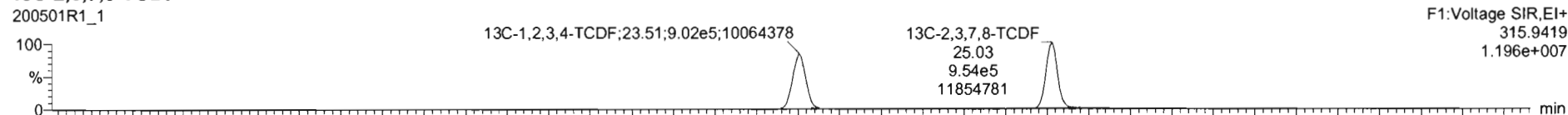
Last Altered: Friday, May 01, 2020 9:49:20 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

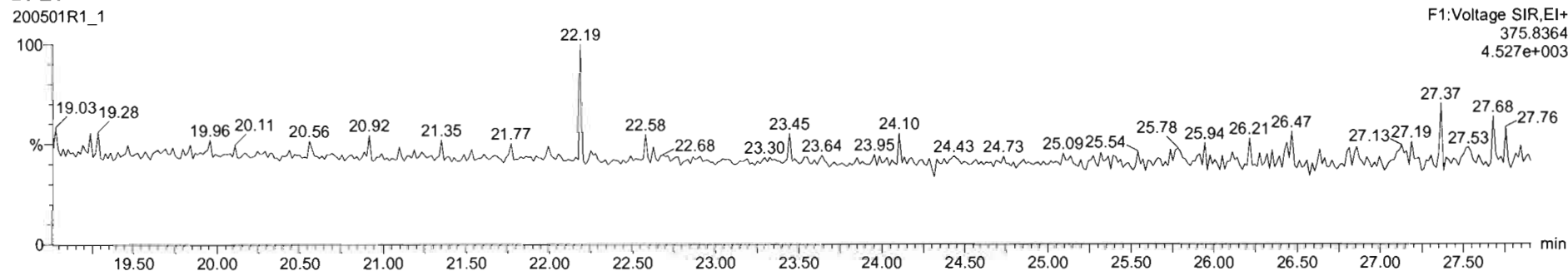
**2,3,7,8-TCDF**



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



**DPE1**



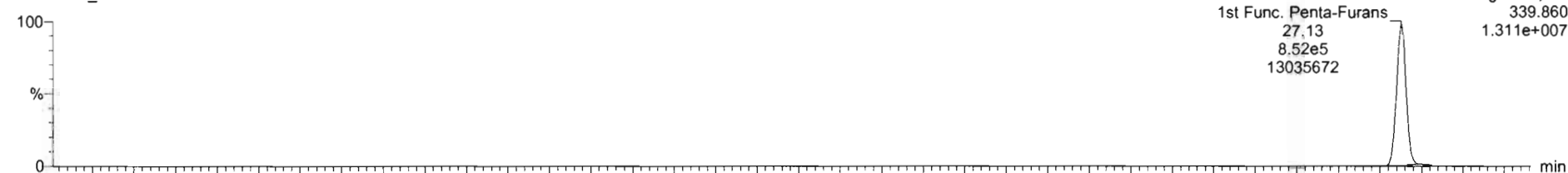
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Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

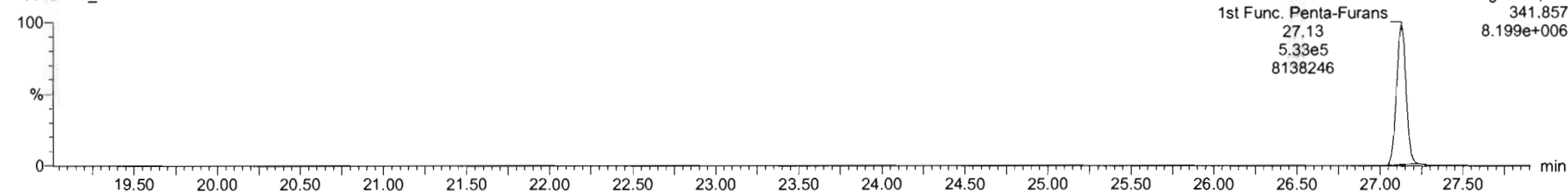
Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200501R1\_1

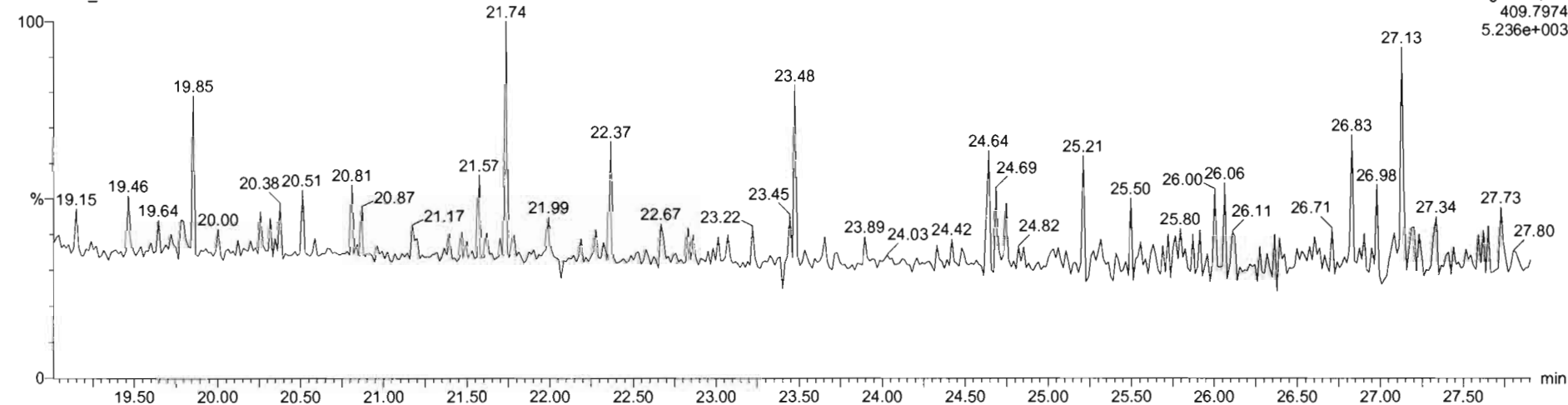


200501R1\_1



DPE6

200501R1\_1



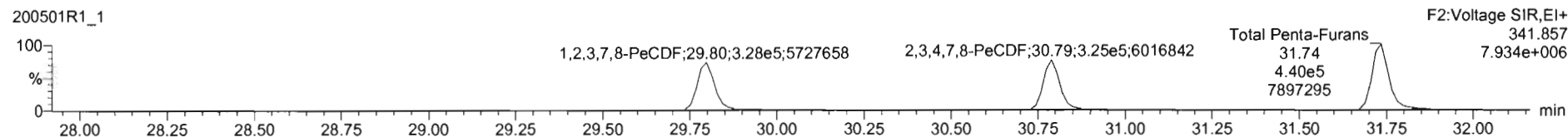
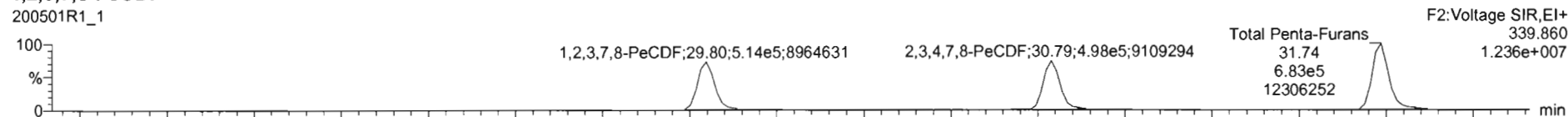


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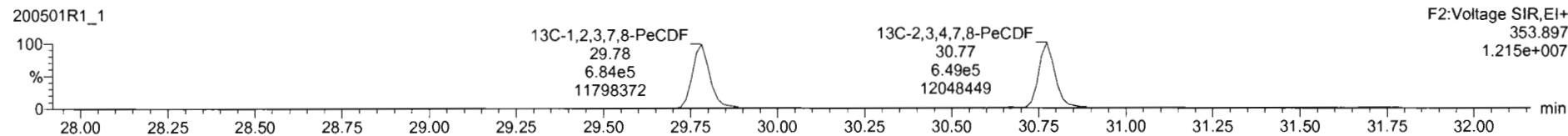
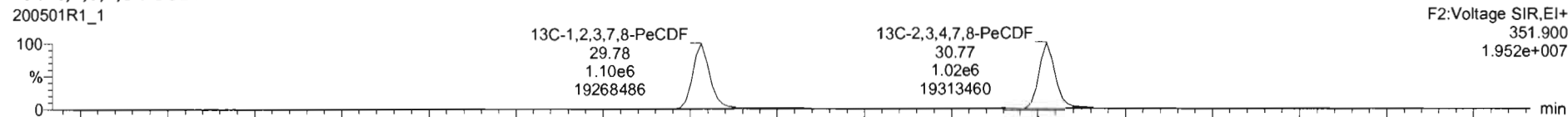
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Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

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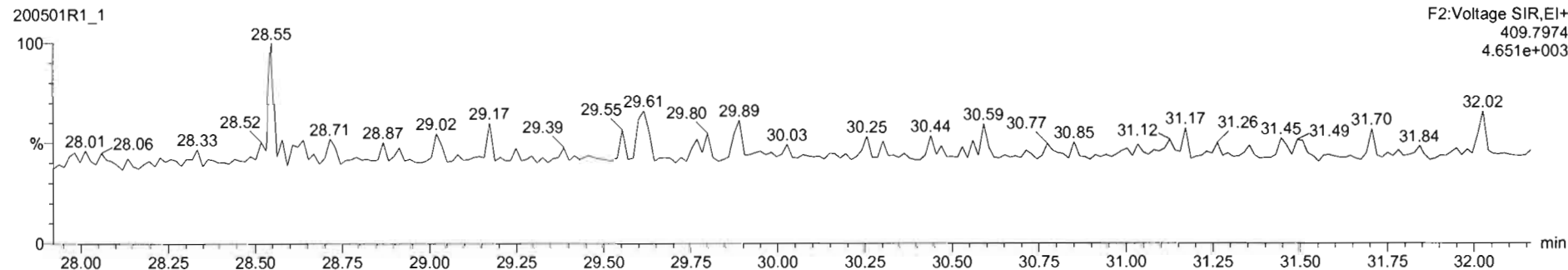
**1,2,3,7,8-PeCDF**



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



**DPE2**

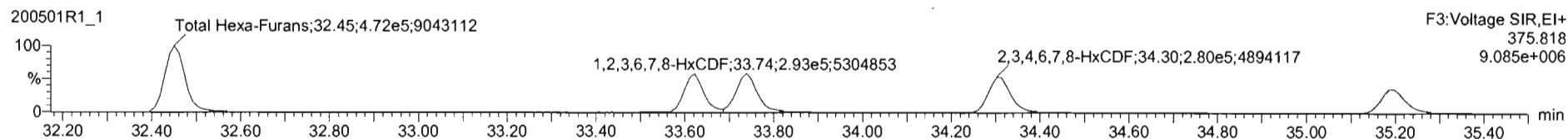
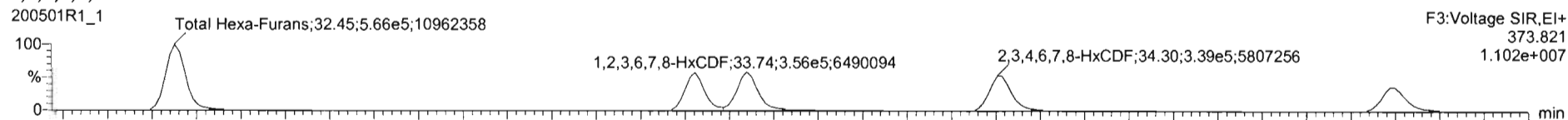


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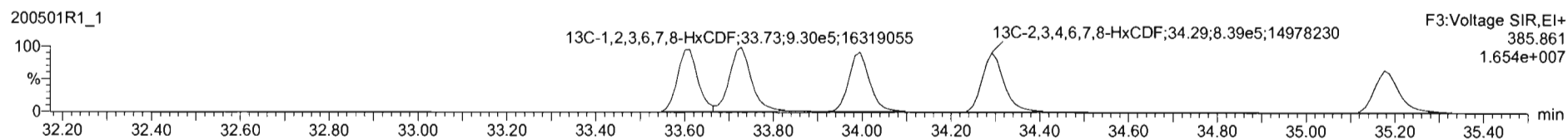
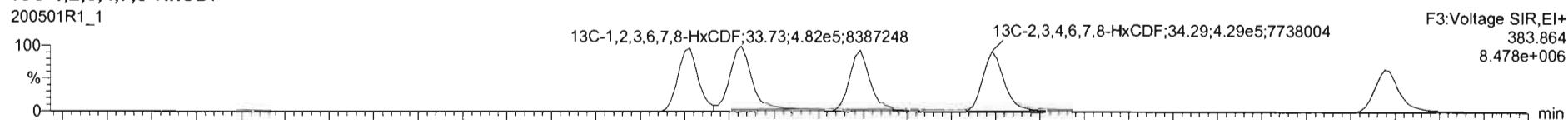
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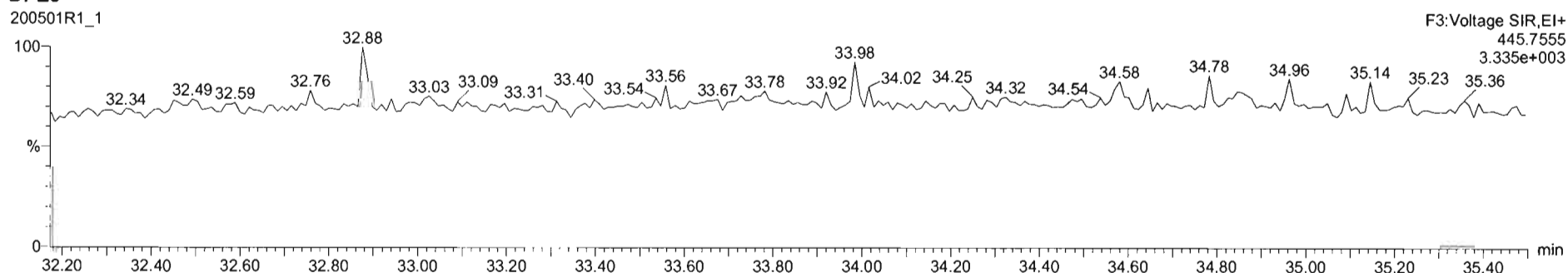
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



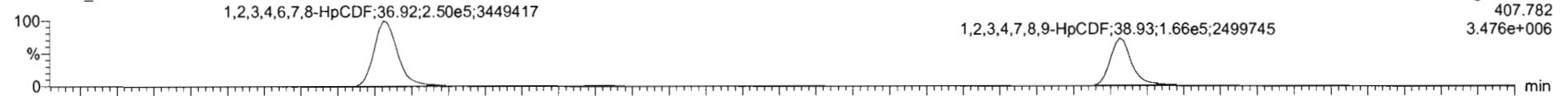
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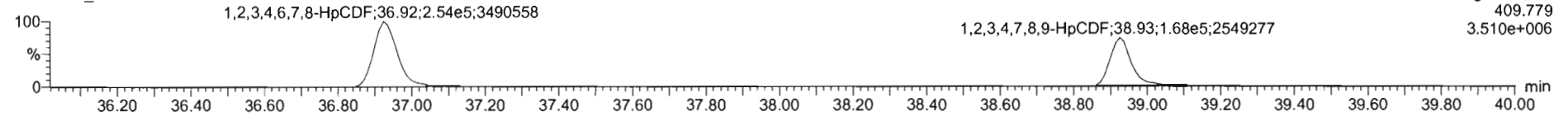
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**1,2,3,4,6,7,8-HpCDF**

200501R1\_1

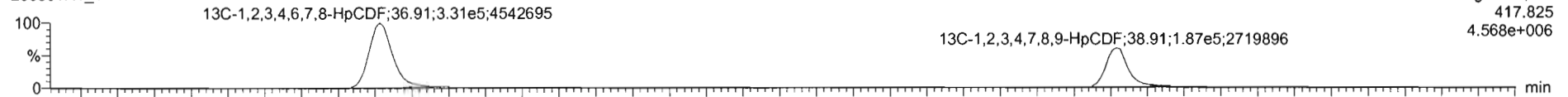


200501R1\_1

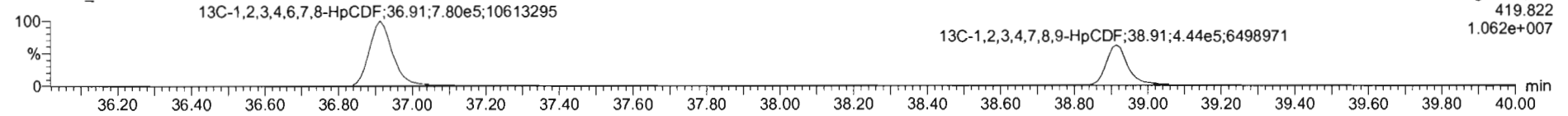


**13C-1,2,3,4,6,7,8-HpCDF**

200501R1\_1

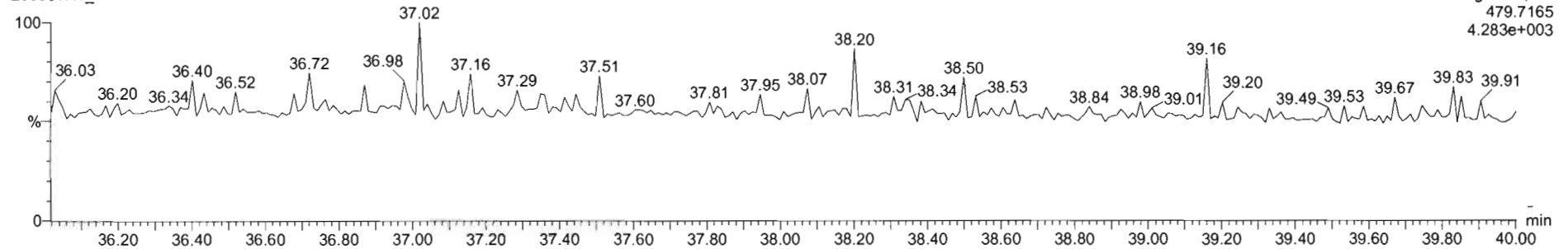


200501R1\_1



**DPE4**

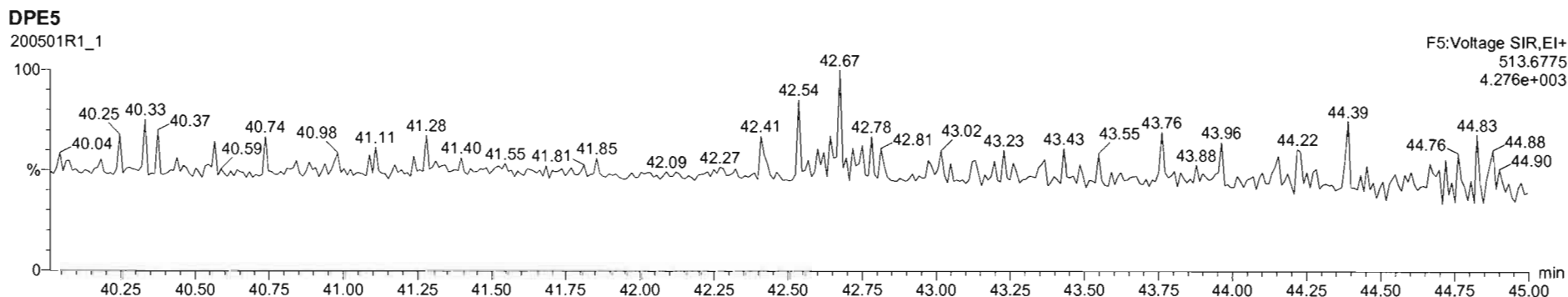
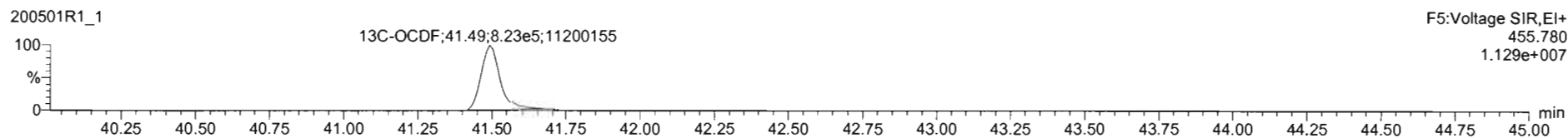
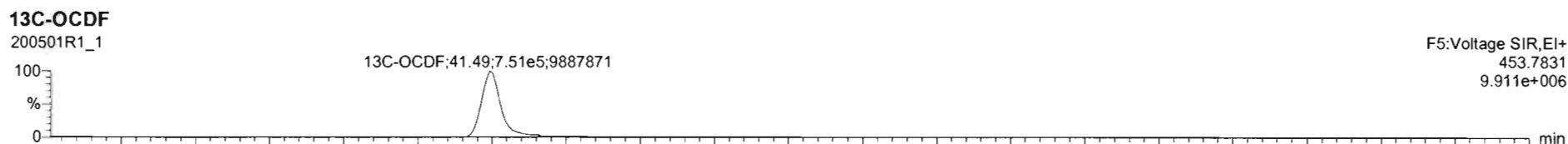
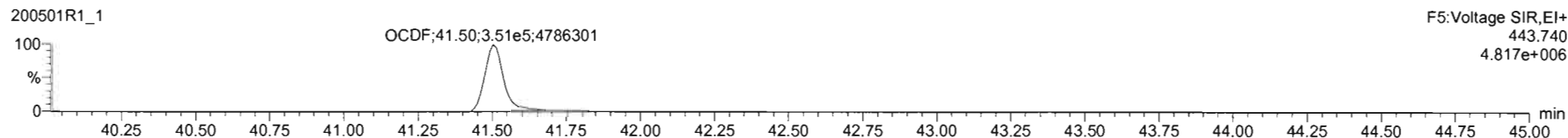
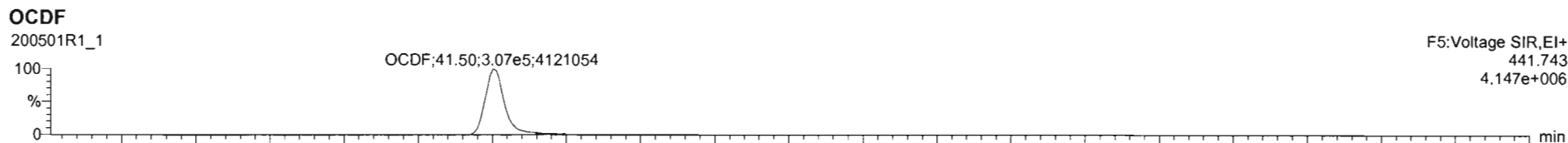
200501R1\_1



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Last Altered: Friday, May 01, 2020 9:49:20 AM Pacific Daylight Time  
Printed: Friday, May 01, 2020 9:49:30 AM Pacific Daylight Time

Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



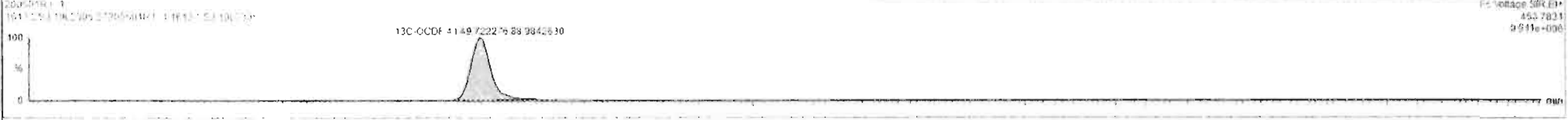
#	Name	Resp	St Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD dev
1	1 2 1.7 6-OCDF	1.02e5	1.51e5	0.77	0.74	NO	0.9475	26.01	26.00	NO	1.001	1.001	10.0	100	NO
2	2 1 2.3 7 8-HeCDF	5.02e5	1.14e5	0.61	0.43	NO	0.9420	31.12	31.11	NO	1.001	1.000	49.6	96.1	NO
3	3 1 2.3 4 7 8-HeCDF	4.02e5	8.95e5	1.24	1.24	NO	1.0641	34.47	34.48	NO	1.000	1.001	56.0	101	NO
4	4 1 2.3 4 7 8-HeCDF	5.09e5	1.14e5	1.24	1.20	NO	0.9149	34.57	34.58	NO	1.000	1.000	51.7	103	NO
5	5 1 2.3 7 8-HeCDF	5.10e5	1.39e5	1.24	1.25	NO	0.9149	34.55	34.56	NO	1.000	1.001	51.1	102	NO
6	6 1 2.3 4 7 8-HeCDF	4.08e5	8.95e5	1.24	0.95	NO	0.9979	38.34	38.35	NO	1.000	1.001	52.5	105	NO
7	7 1 OCDF	7.17e5	1.48e5	0.89	0.82	NO	0.9735	41.32	41.31	NO	1.000	1.000	101	105	NO
8	8 2 3 7 8-OCDF	1.78e5	2.19e5	0.77	0.76	NO	0.7811	25.96	25.95	NO	1.001	1.001	16.4	104	NO
9	9 1 2 3 7 8-HeCDF	2.42e5	1.78e5	1.15	1.07	NO	0.9102	29.80	29.80	NO	1.001	1.001	51.5	104	NO
10	10 2 3 4 7 8-HeCDF	6.24e5	1.67e5	1.55	1.51	NO	0.9664	30.80	30.79	NO	1.001	1.000	51.1	102	NO
11	11 1 2 3 4 7 8-HeCDF	5.94e5	1.26e5	1.24	1.20	NO	0.9782	32.81	32.82	NO	1.000	1.000	53.1	102	NO
12	12 1 2 3 4 7 8-HeCDF	5.49e5	1.41e5	1.24	1.21	NO	0.9740	32.74	32.74	NO	1.000	1.000	52.0	105	NO
13	13 2 3 4 7 8-HeCDF	6.20e5	1.27e5	1.24	1.21	NO	0.9217	34.50	34.50	NO	1.001	1.000	53.0	106	NO
14	14 2 3 7 8-HeCDF	4.75e5	1.34e5	1.24	1.19	NO	0.9647	35.18	35.18	NO	1.000	1.000	52.7	105	NO
15	15 1 2 3 4 7 8-HeCDF	5.00e5	1.11e5	1.04	0.96	NO	0.9710	36.95	36.92	NO	1.001	1.000	52.0	104	NO
16	16 1 2 3 4 7 8-HeCDF	1.32e5	4.11e5	1.24	0.95	NO	1.0119	38.51	38.51	NO	1.000	1.000	82.0	105	NO
17	17 OCDF	6.58e5	1.55e5	0.89	0.87	NO	0.8821	41.48	41.58	NO	1.005	1.000	106	100	NO



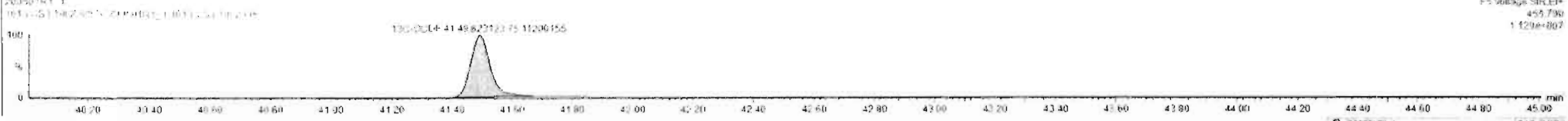
F4 Voltage SRI.EP  
443.740  
4.147e+006



F4 Voltage SRI.EP  
443.740  
4.817e+006



F5 Voltage SRI.EP  
453.7831  
9.911e+006

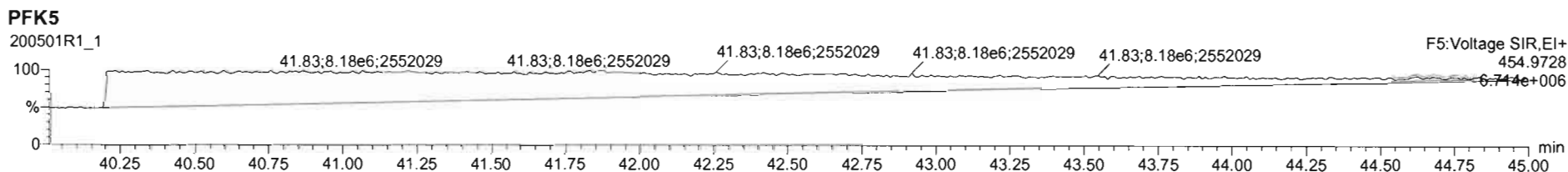
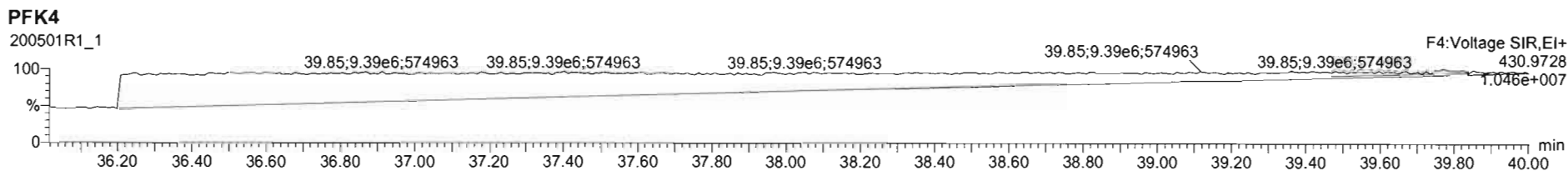
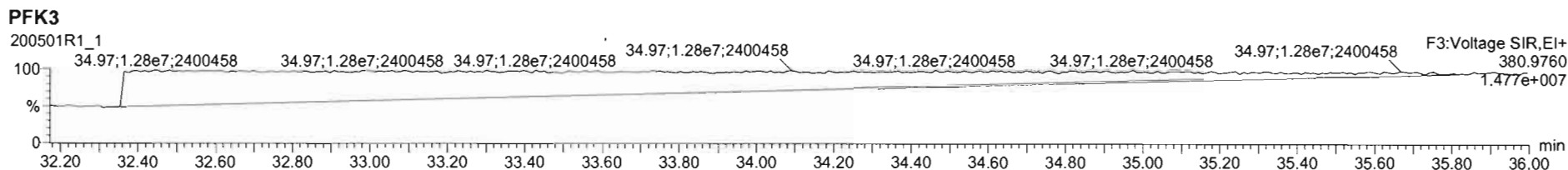
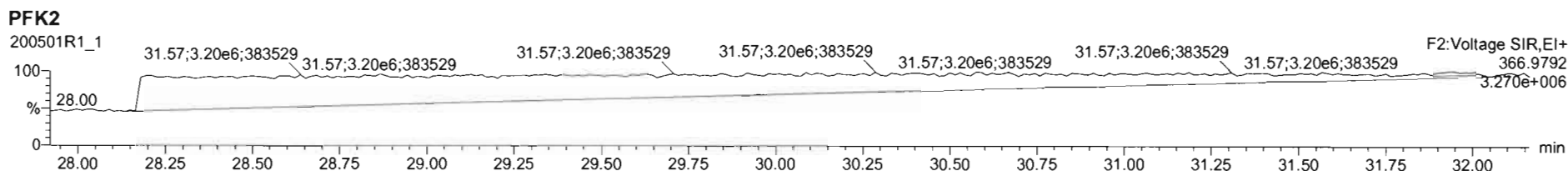
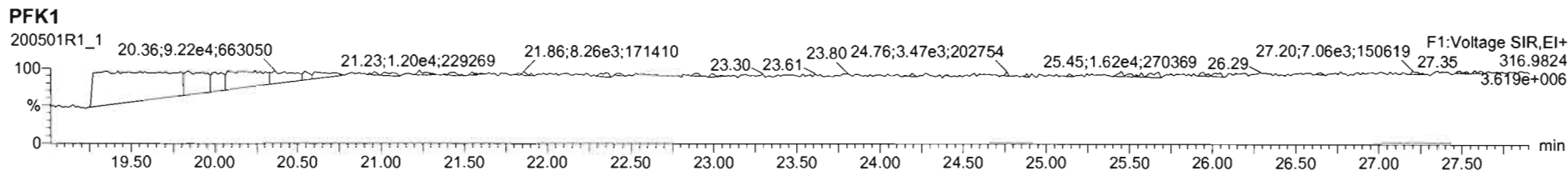


F5 Voltage SRI.EP  
453.736  
1.129e+007

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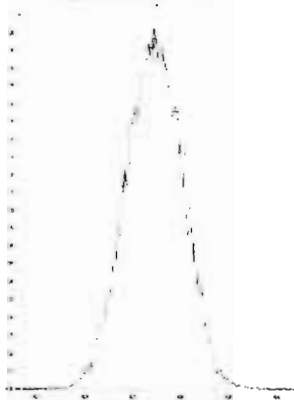
Name: 200501R1\_1, Date: 01-May-2020, Time: 08:58:46, ID: ST200501R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



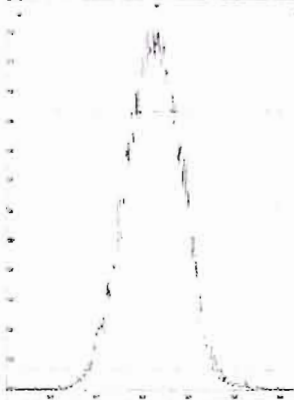
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Printed: Friday, May 01, 2020 14:30:11 Pacific Daylight Time

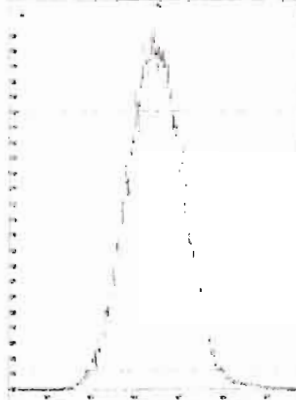
M 292.9824 R 11209



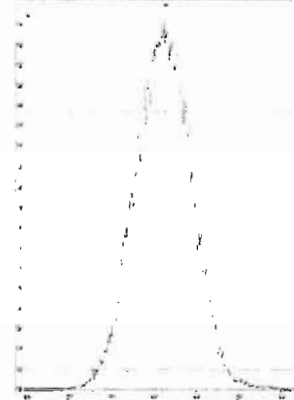
M 304.9824 R 10640



M 318.9792 R 10959



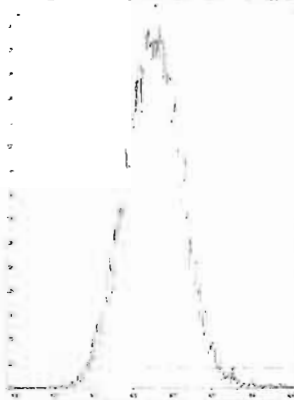
M 330.9792 R 10825



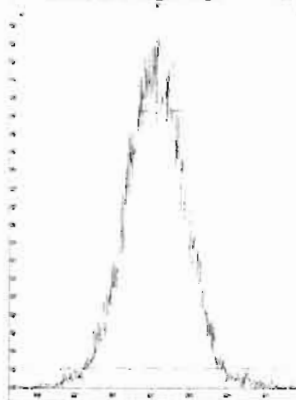
M 342.9792 R 10504



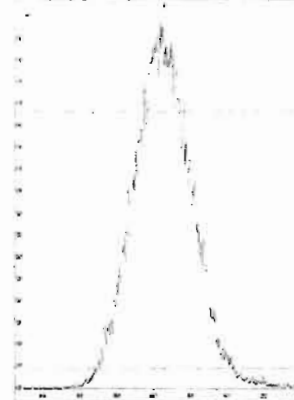
M 354.9792 R 10596



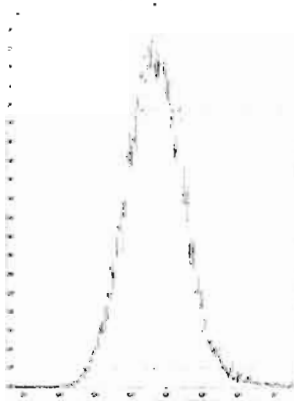
M 366.9792 R 10163



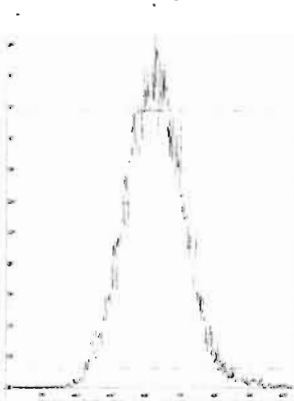
M 380.9760 R 10373



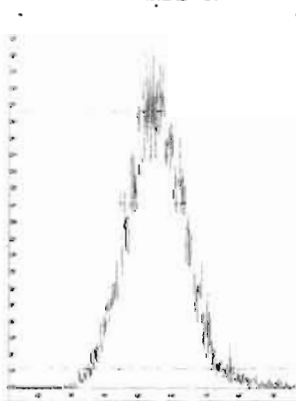
M 392.9760 R 10289



M 404.9760 R 10822



M 416.9760 R 10591



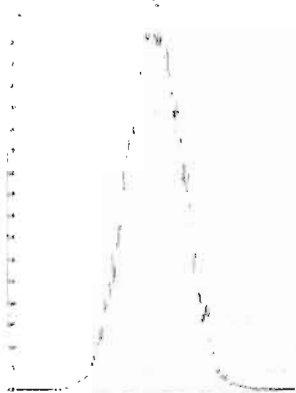
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Printed: Friday, May 01, 2020 14:30:59 Pacific Daylight Time

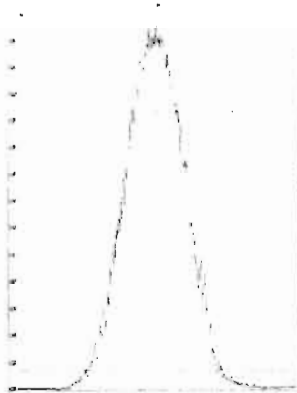
M 318.9792 R 11161



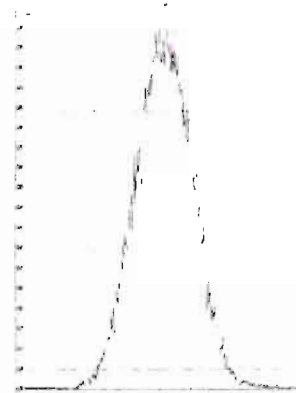
M 330.9792 R 10868



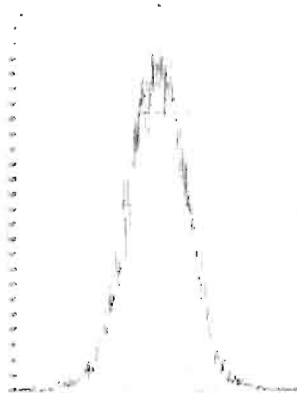
M 342.9792 R 10918



M 354.9792 R 10637



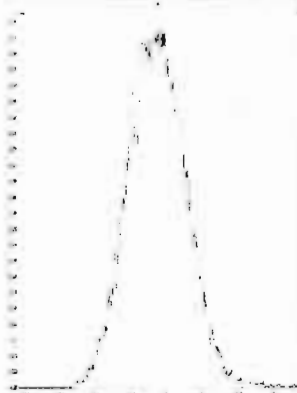
M 366.9792 R 10820



M 380.9760 R 10634



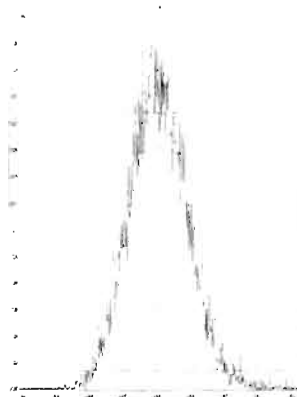
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M 404.9760 R 11062



M 416.9760 R 10728

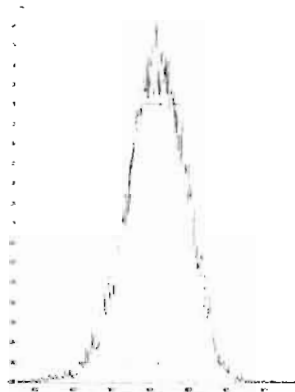




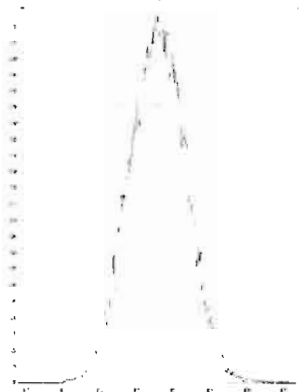
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Printed: Friday, May 01, 2020 14:31:29 Pacific Daylight Time

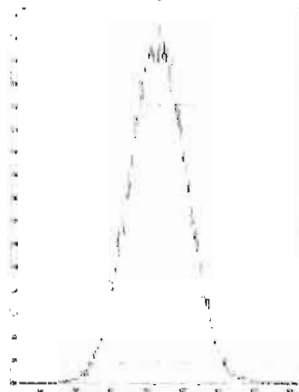
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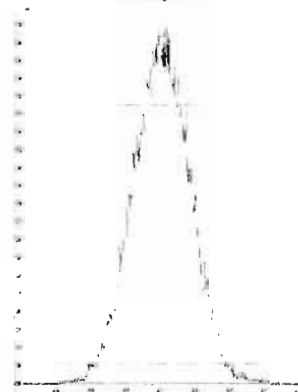
M 380.9760 R 10634



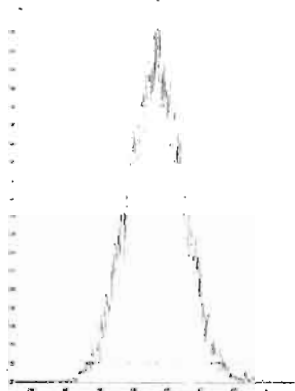
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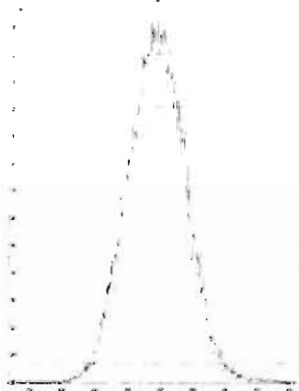
M 404.9760 R 10823



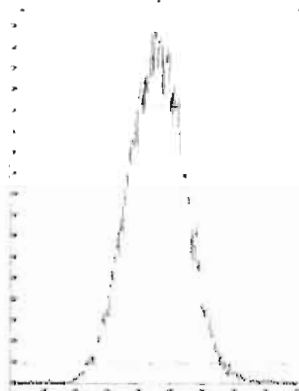
M 416.9760 R 12441



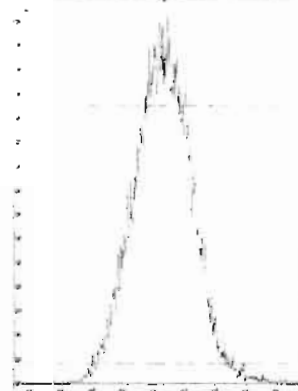
M 430.9728 R 11011



M 442.9728 R 11013



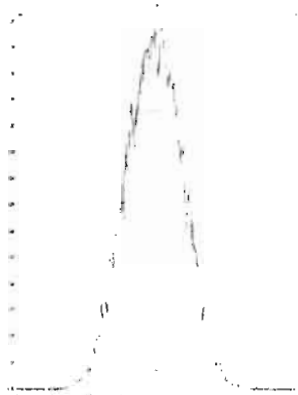
M 454.9728 R 10963



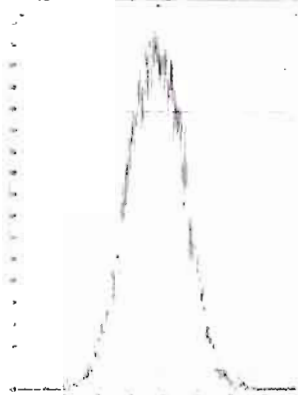
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 01, 2020 14:31:48 Pacific Daylight Time

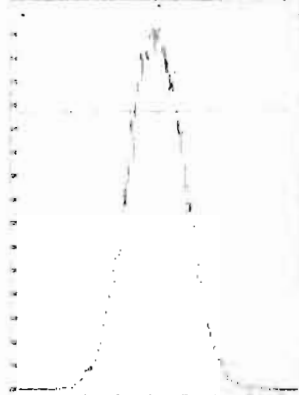
M 404.9760 R 10550



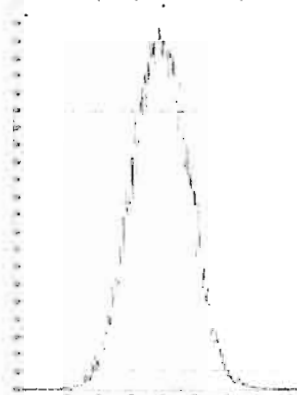
M 416.9760 R 11111



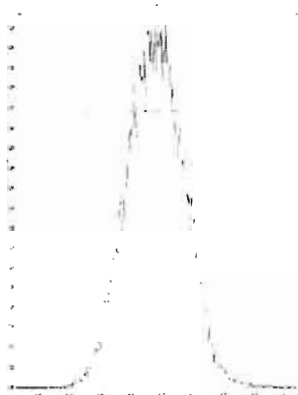
M 430.9728 R 10503



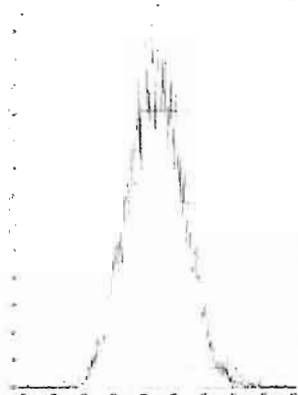
M 442.9728 R 10870



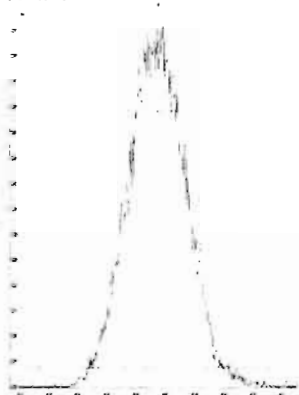
M 454.9728 R 10775



M 466.9728 R 10966



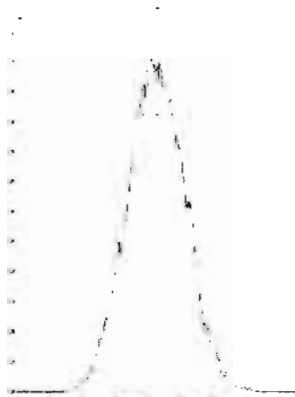
M 480.9696 R 10330



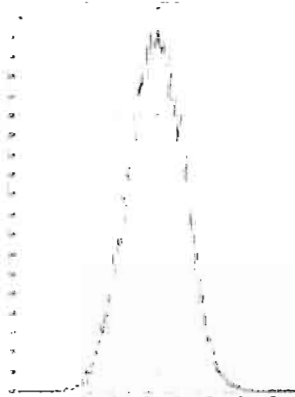
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, May 01, 2020 14:32:17 Pacific Daylight Time

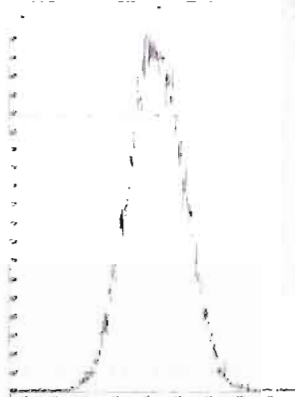
M 430.9728 R 10549



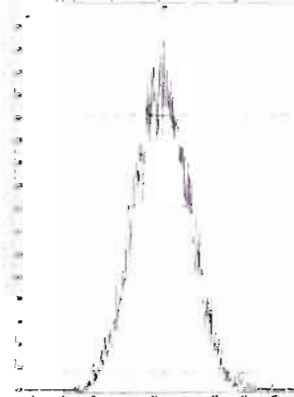
M 442.9728 R 11110



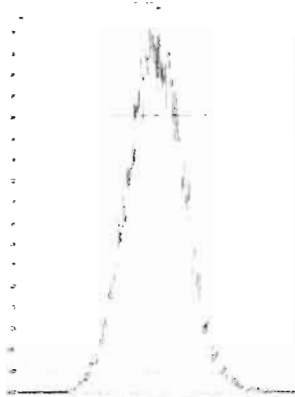
M 454.9728 R 11309



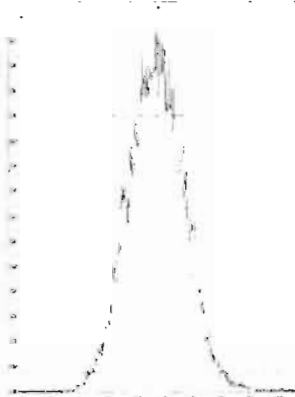
M 466.9728 R 11013



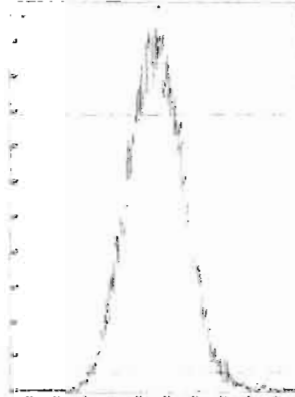
M 480.9696 R 10778



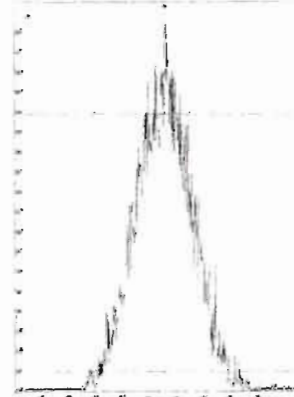
M 492.9696 R 11013



M 504.9696 R 11213



M 516.9697 R 11255



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Begin Calibration ID:** ST20050122-2

**Reviewed By:** GR 02/04/2020  
*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	<b>Mass resolution <math>\geq</math></b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1614   1699   429   1613/1668/8280		
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>GC Break &lt;20%</b>	<input type="checkbox" value="NA"/>	
<b>Verification Std. named correctly?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>8280 CS1 End Standard:</b>		
<b>(ST-Year-Month-Day-VG ID)</b>			<b>- Ratios within limits, S/N &lt;2.5:1, CS1 within 12 hours</b>	<input type="checkbox" value="NA"/>	
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Comments:</b>		
<b>Correct ICAL referenced?</b>	<u>GRB</u>	<u>GRB</u>			
<b>Run Log:</b>					
<b>- Correct instrument listed?</b>	<input checked="" type="checkbox"/>	<input type="checkbox" value="N"/>			
<b>- Samples within 12 hour clock?</b>	<input type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>			
<b>- Bottle position verified?</b>	<u>GRB</u>	<u>GRB</u>			

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-2.qld

Last Altered: Friday, May 01, 2020 4:59:30 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 4:59:41 PM Pacific Daylight Time

*GPB 05/01/2020*

*C1 05/04/2020*

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

Name: 200501R2\_2, Date: 01-May-2020, Time: 16:08:12, ID: ST200501R2\_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.19e5	1.19e6	0.80	NO	0.947	26.01	26.00	NO	1.001	1.001	10.538	105	NO
2	2 1,2,3,7,8-PeCDD	4.27e5	9.12e5	0.63	NO	0.942	31.10	31.09	NO	1.001	1.000	49.696	99.4	NO
3	3 1,2,3,4,7,8-HxCDD	3.85e5	6.99e5	1.31	NO	1.06	34.46	34.46	NO	1.000	1.000	51.763	104	NO
4	4 1,2,3,6,7,8-HxCDD	4.28e5	9.24e5	1.22	NO	0.915	34.56	34.57	NO	1.000	1.000	50.685	101	NO
5	5 1,2,3,7,8,9-HxCDD	3.74e5	8.03e5	1.24	NO	0.915	34.85	34.85	NO	1.000	1.000	50.907	102	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.01e5	6.56e5	1.04	NO	0.898	38.33	38.34	NO	1.000	1.001	51.031	102	NO
7	7 OCDD	5.20e5	1.07e6	0.88	NO	0.933	41.30	41.32	NO	1.000	1.001	104.02	104	NO
8	8 2,3,7,8-TCDF	1.39e5	1.71e6	0.76	NO	0.787	25.06	25.06	NO	1.001	1.001	10.336	103	NO
9	9 1,2,3,7,8-PeCDF	6.87e5	1.45e6	1.59	NO	0.910	29.79	29.78	NO	1.001	1.001	52.016	104	NO
10	10 2,3,4,7,8-PeCDF	6.90e5	1.40e6	1.58	NO	0.966	30.79	30.77	NO	1.001	1.000	50.915	102	NO
11	11 1,2,3,4,7,8-HxCDF	4.84e5	1.02e6	1.21	NO	0.878	33.60	33.61	NO	1.000	1.000	54.145	108	NO
12	12 1,2,3,6,7,8-HxCDF	5.48e5	1.18e6	1.22	NO	0.874	33.73	33.73	NO	1.000	1.000	52.920	106	NO
13	13 2,3,4,6,7,8-HxCDF	5.05e5	1.05e6	1.22	NO	0.922	34.32	34.30	NO	1.001	1.001	52.377	105	NO
14	14 1,2,3,7,8,9-HxCDF	3.71e5	8.01e5	1.20	NO	0.864	35.18	35.19	NO	1.000	1.000	53.558	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.92e5	8.41e5	1.01	NO	0.871	36.95	36.92	NO	1.001	1.000	53.577	107	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.61e5	4.75e5	1.01	NO	1.01	38.91	38.93	NO	1.000	1.000	54.247	108	NO
17	17 OCDF	4.74e5	1.13e6	0.88	NO	0.802	41.49	41.49	NO	1.000	1.000	104.38	104	NO
18	18 13C-2,3,7,8-TCDD	1.19e6	1.02e6	0.80	NO	1.16	25.97	25.97	NO	1.026	1.027	100.58	101	NO
19	19 13C-1,2,3,7,8-PeCDD	9.12e5	1.02e6	0.64	NO	0.847	31.05	31.08	NO	1.227	1.228	105.15	105	NO
20	20 13C-1,2,3,4,7,8-HxCDD	6.99e5	1.01e6	1.30	NO	0.750	34.46	34.45	NO	1.014	1.014	92.584	92.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	9.24e5	1.01e6	1.28	NO	0.963	34.57	34.56	NO	1.017	1.017	95.377	95.4	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.03e5	1.01e6	1.26	NO	0.838	34.84	34.84	NO	1.025	1.025	95.309	95.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.56e5	1.01e6	1.08	NO	0.641	38.33	38.32	NO	1.128	1.128	101.68	102	NO
24	24 13C-OCDD	1.07e6	1.01e6	0.90	NO	0.586	41.32	41.30	NO	1.216	1.215	181.51	90.8	NO
25	25 13C-2,3,7,8-TCDF	1.71e6	1.57e6	0.78	NO	1.03	25.03	25.03	NO	0.989	0.989	104.91	105	NO
26	26 13C-1,2,3,7,8-PeCDF	1.45e6	1.57e6	1.59	NO	0.845	29.74	29.77	NO	1.176	1.177	109.11	109	NO
27	27 13C-2,3,4,7,8-PeCDF	1.40e6	1.57e6	1.64	NO	0.814	30.73	30.76	NO	1.215	1.216	109.56	110	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.02e6	1.01e6	0.51	NO	1.00	33.60	33.60	NO	0.989	0.989	100.70	101	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.18e6	1.01e6	0.51	NO	1.14	33.73	33.72	NO	0.992	0.992	103.53	104	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.05e6	1.01e6	0.52	NO	1.02	34.29	34.28	NO	1.009	1.009	101.61	102	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.01e5	1.01e6	0.51	NO	0.845	35.18	35.18	NO	1.035	1.035	94.243	94.2	NO

Dataset: U:\VG12.PRO\Results\200501R2\200501R2-2.qld

Last Altered: Friday, May 01, 2020 4:59:30 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 4:59:41 PM Pacific Daylight Time

Name: 200501R2\_2, Date: 01-May-2020, Time: 16:08:12, ID: ST200501R2\_2 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	8.41e5	1.01e6	0.44	NO	0.771	36.91	36.91	NO	1.086	1.086	108.34	108	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.75e5	1.01e6	0.43	NO	0.482	38.92	38.91	NO	1.145	1.145	97.840	97.8	NO
34	34 13C-OCDF	1.13e6	1.01e6	0.85	NO	0.669	41.49	41.49	NO	1.221	1.221	168.29	84.1	NO
35	35 37Cl-2,3,7,8-TCDD	1.12e5	1.02e6			1.10	26.00	26.00	NO	1.028	1.028	9.9368	99.4	NO
36	36 13C-1,2,3,4-TCDD	1.02e6	1.02e6	0.80	NO	1.00	25.35	25.30	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.57e6	1.57e6	0.78	NO	1.00	23.56	23.52	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.01e6	1.01e6	0.51	NO	1.00	34.00	33.98	NO	1.000	1.000	100.00	100	YES

Dataset: Untitled

Last Altered: Friday, May 01, 2020 5:01:11 PM Pacific Daylight Time

Printed: Friday, May 01, 2020 5:01:29 PM Pacific Daylight Time

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

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

Name: 200501R2\_2, Date: 01-May-2020, Time: 16:08:12, ID: ST200501R2\_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.83
2	2 1,2,8,9-TCDD (Last)	26.99
3	3 1,2,4,7,9-PeCDD (First)	28.85
4	4 1,2,3,8,9-PeCDD (Last)	31.49
5	5 1,2,4,6,7,9-HxCDD (First)	33.00
6	6 1,2,3,7,8,9-HxCDD (Last)	34.85
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.31
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.34
9	9 1,3,6,8-TCDF (First)	19.76
10	10 1,2,8,9-TCDF (Last)	27.14
11	11 1,3,4,6,8-PeCDF (First)	27.13
12	12 1,2,3,8,9-PeCDF (Last)	31.72
13	13 1,2,3,4,6,8-HxCDF (First)	32.44
14	14 1,2,3,7,8,9-HxCDF (Last)	35.19
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.92
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.93

Dataset: Untitled

Last Altered: Friday, May 01, 2020 5:01:11 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 5:01:29 PM Pacific Daylight Time

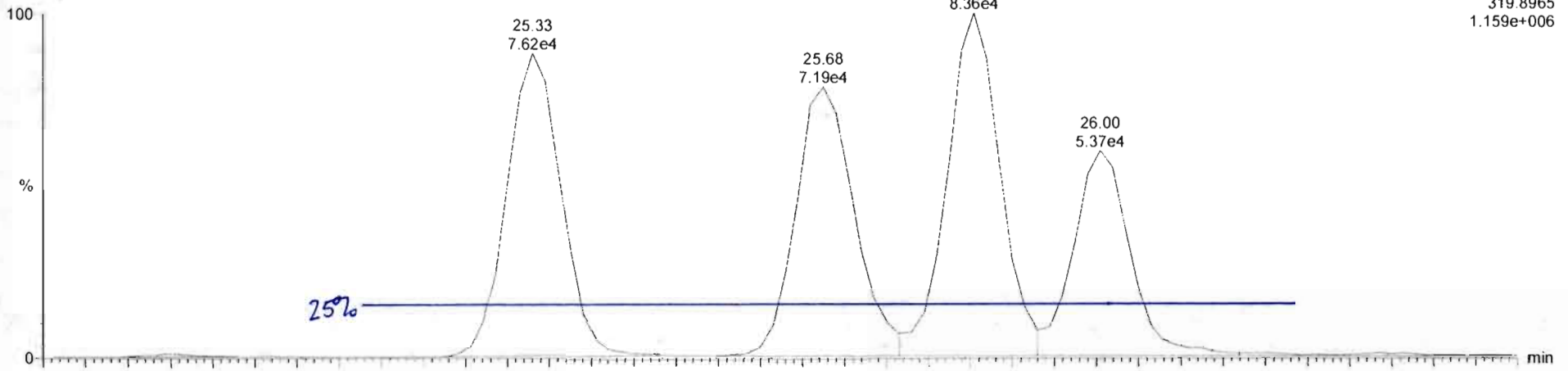
GRB 05/01/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200501R2\_2, Date: 01-May-2020, Time: 16:08:12, ID: ST200501R2\_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

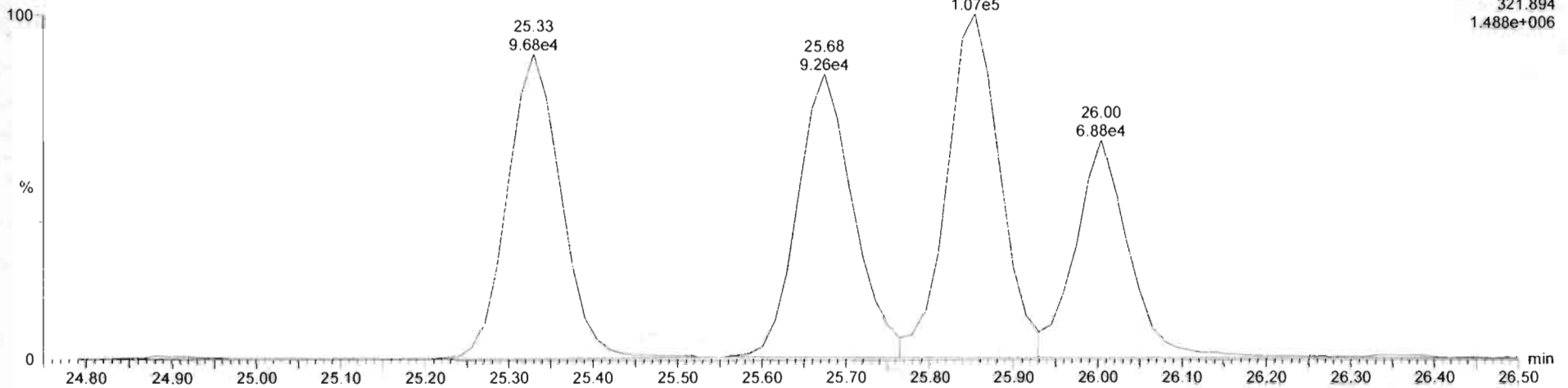
1,3,6,8-TCDD (First)  
200501R2\_2

F1:Voltage SIR,EI+  
319.8965  
1.159e+006



200501R2\_2

F1:Voltage SIR,EI+  
321.894  
1.488e+006





Dataset: Untitled

Last Altered: Saturday, May 02, 2020 8:41:19 AM Pacific Daylight Time  
Printed: Saturday, May 02, 2020 8:41:42 AM Pacific Daylight Time

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

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

	Name	ID	Acq.Date	Acq.Time
1	Ⓐ 200501R2_1	ST200501R2_1 1613 CS3 19L2305	01-May-20	15:19:23
2	Ⓑ 200501R2_2	ST200501R2_2 1613 CS3 19L2305	01-May-20	16:08:12
3	200501R2_3	SOLVENT BLANK	01-May-20	16:55:40
4	200501R2_4	2000927-03 PDI-151SC-A-03-04-200421 11.76	01-May-20	17:41:53
5	200501R2_5	2000927-04 PDI-151SC-A-04-05-200421 10.73	01-May-20	18:28:06
6	200501R2_6	2000927-05 PDI-151SC-A-05-06-200421 10.81	01-May-20	19:14:17
7	200501R2_7	2000927-06 PDI-151SC-A-06-07-200421 11.02	01-May-20	20:00:28
8	200501R2_8	2000927-07 PDI-151SC-A-07-08-200421 11.92	01-May-20	20:46:39
9	200501R2_9	2000927-08 PDI-152SC-A-00-01-200421 11.05	01-May-20	21:32:50
10	200501R2_10	2000927-09 PDI-152SC-A-06-07-200421 12.93	01-May-20	22:19:02
11	200501R2_11	2000927-10 PDI-152SC-A-07-08-200421 12.29	01-May-20	23:05:13
12	200501R2_12	2000927-11 PDI-152SC-A-08-09-200421 12.22	01-May-20	23:51:25
13	200501R2_13	2000927-12 PDI-152SC-A-09-10-200421 12.9	02-May-20	00:37:36
14	200501R2_14	2000927-13 PDI-152SC-A-10-11-200421 12.94	02-May-20	01:23:47
15	200501R2_15	2000927-14 PDI-152SC-A-11-12-200421 12.81	02-May-20	02:09:59
16	200501R2_16	2000927-15 PDI-152SC-A-12-13-200421 11.14	02-May-20	02:56:11

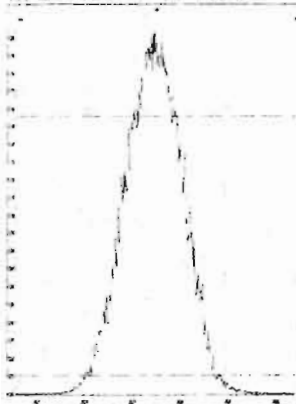
Ⓐ USED TO ADJUST WINDOWS

Ⓑ USED FOR RUN GRB 05/02/2020

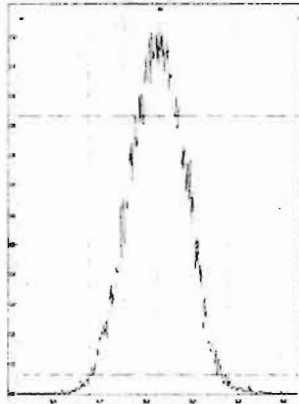
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 01, 2020 14:30:11 Pacific Daylight Time

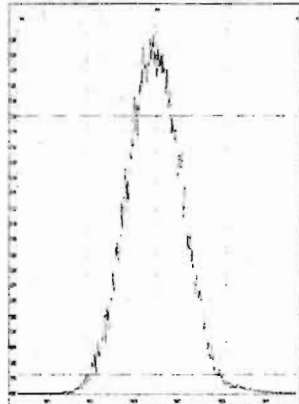
M 292.9824 R 11209



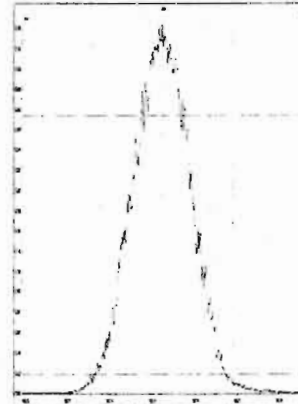
M 304.9824 R 10640



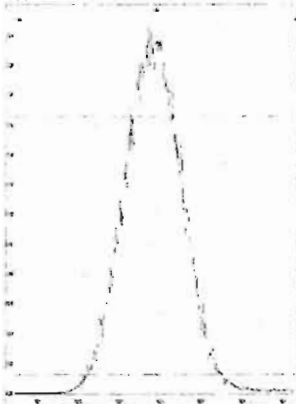
M 318.9792 R 10959



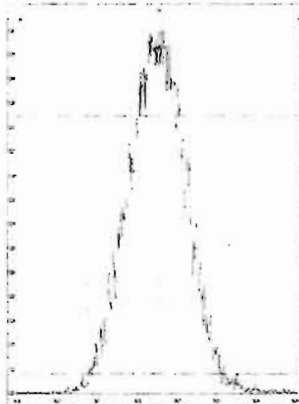
M 330.9792 R 10825



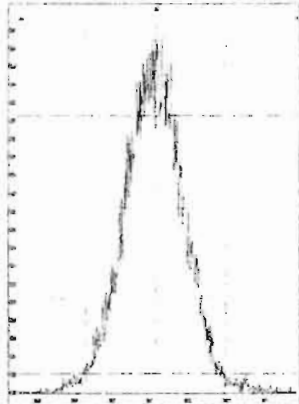
M 342.9792 R 10504



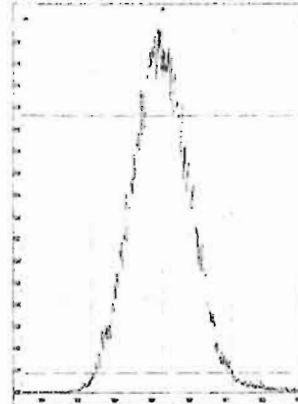
M 354.9792 R 10596



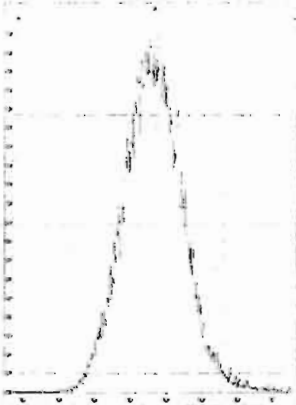
M 366.9792 R 10163



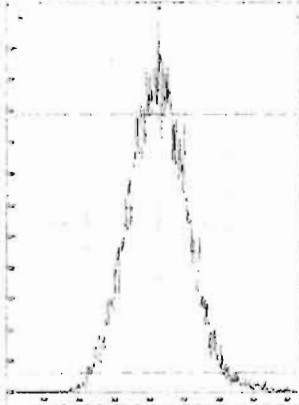
M 380.9760 R 10373



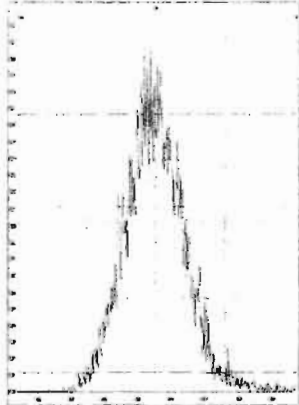
M 392.9760 R 10289



M 404.9760 R 10822



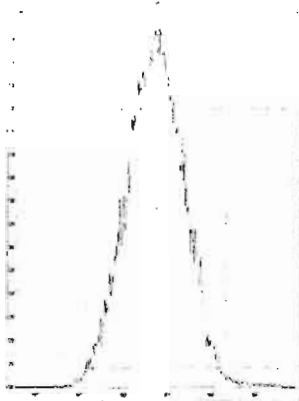
M 416.9760 R 10591



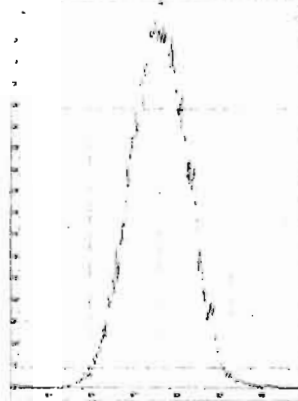
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Printed: Friday, May 01, 2020 14:30:59 Pacific Daylight Time

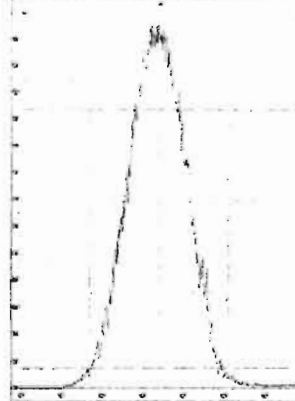
M 318.9792 R 11161



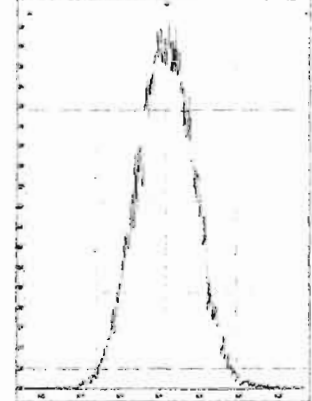
M 330.9792 R 10868



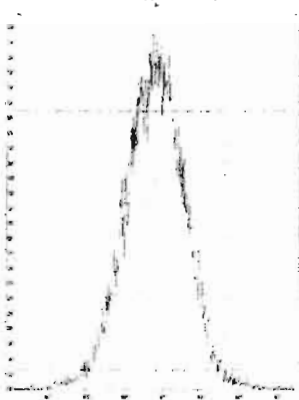
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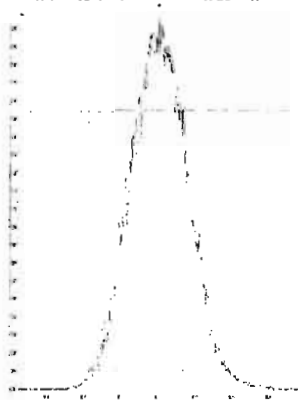
M 354.9792 R 10637



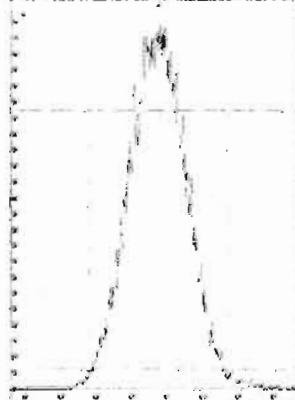
M 366.9792 R 10820



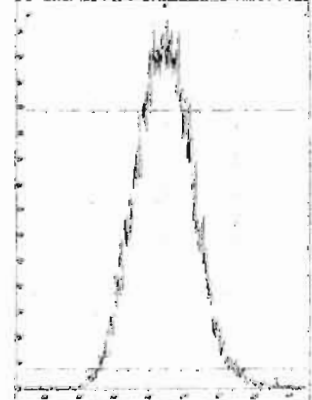
M 380.9760 R 10634



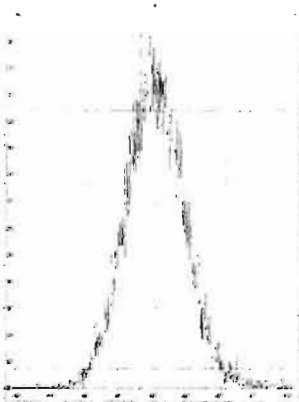
M 392.9760 R 10868



M 404.9760 R 11062



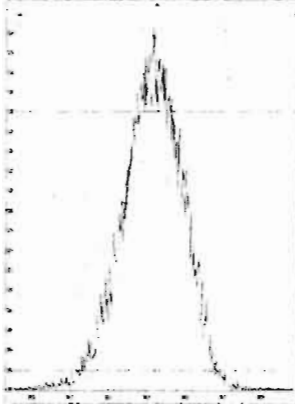
M 416.9760 R 10728



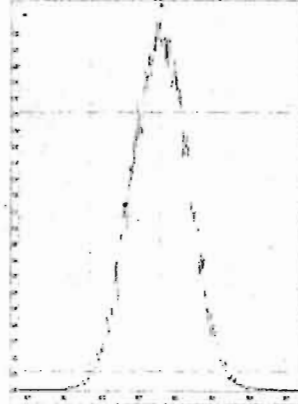
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, May 01, 2020 14:31:29 Pacific Daylight Time

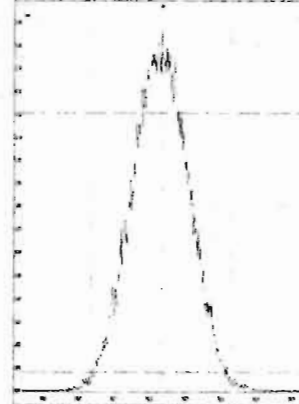
M 366.9792 R 10462



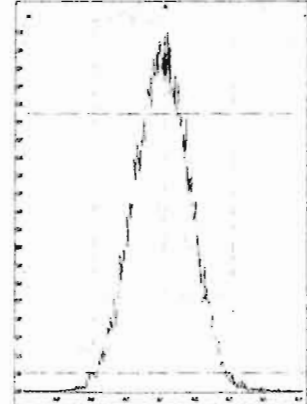
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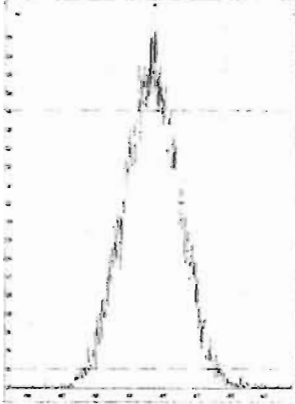
M 392.9760 R 10728



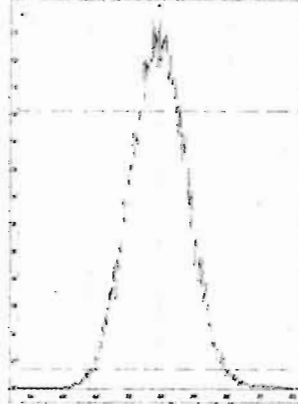
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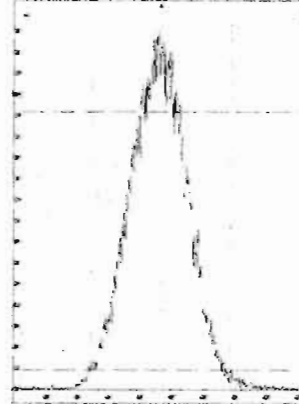
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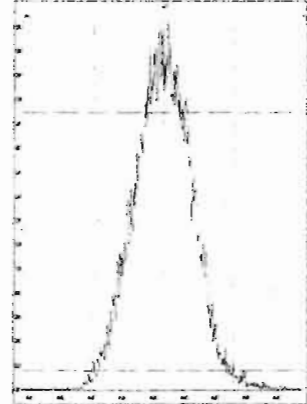
M 430.9728 R 11011



M 442.9728 R 11013



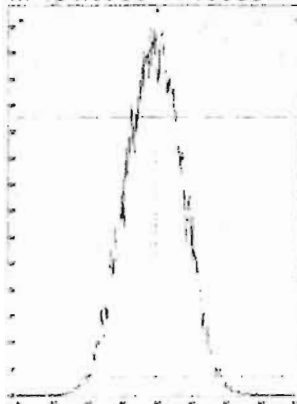
M 454.9728 R 10963



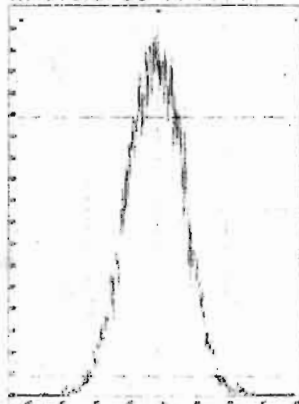
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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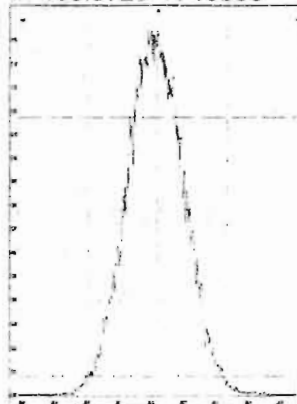
M 404.9760 R 10550



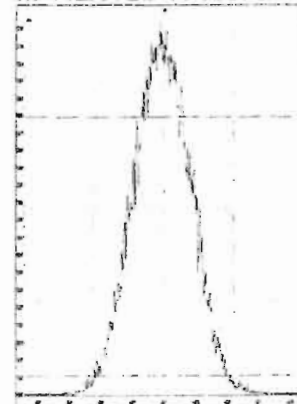
M 416.9760 R 11111



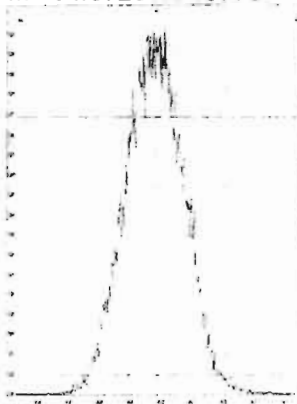
M 430.9728 R 10503



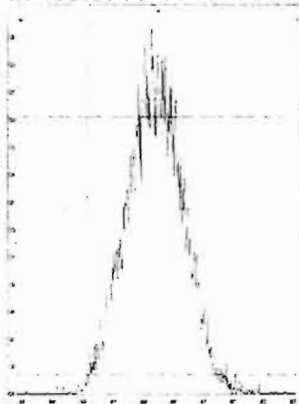
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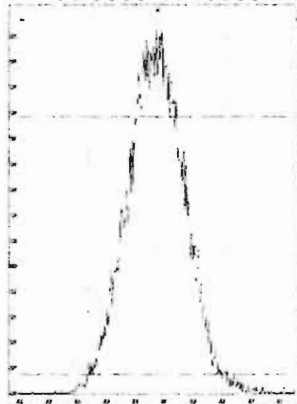
M 454.9728 R 10775



M 466.9728 R 10966



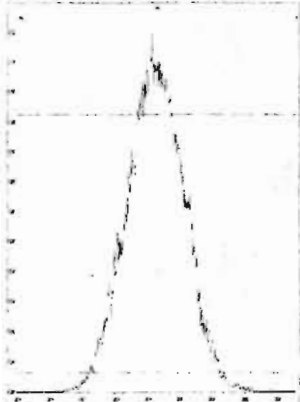
M 480.9696 R 10330



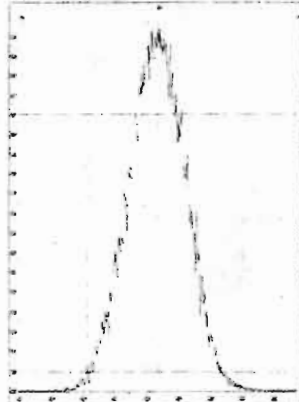
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Printed: Friday, May 01, 2020 14:32:17 Pacific Daylight Time

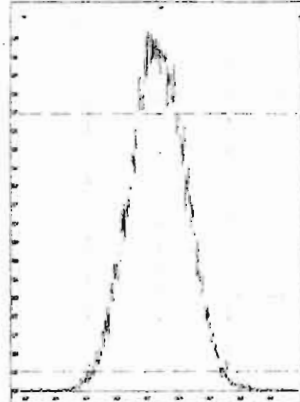
M 430.9728 R 10549



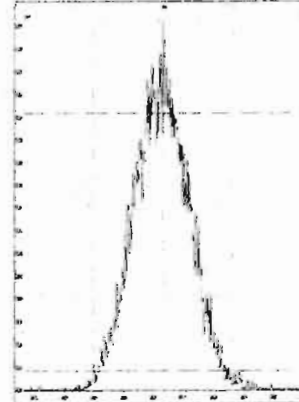
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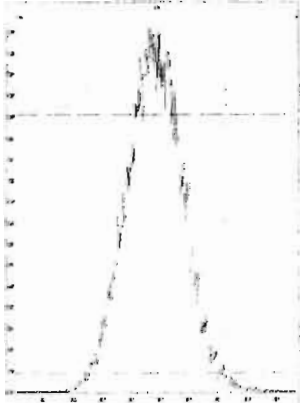
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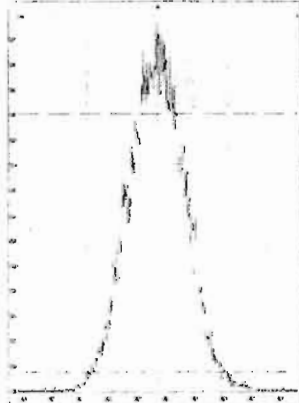
M 466.9728 R 11013



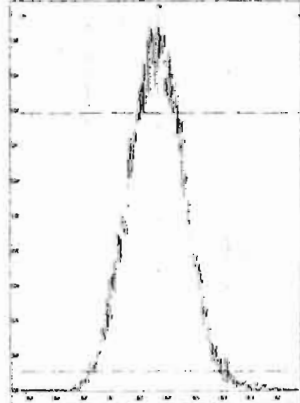
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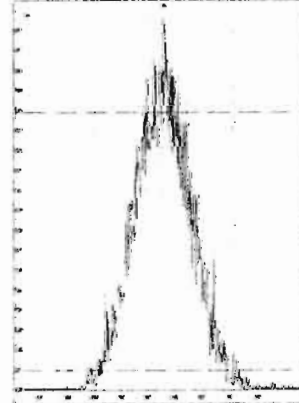
M 492.9696 R 11013



M 504.9696 R 11213



M 516.9697 R 11255



Dataset: Untitled

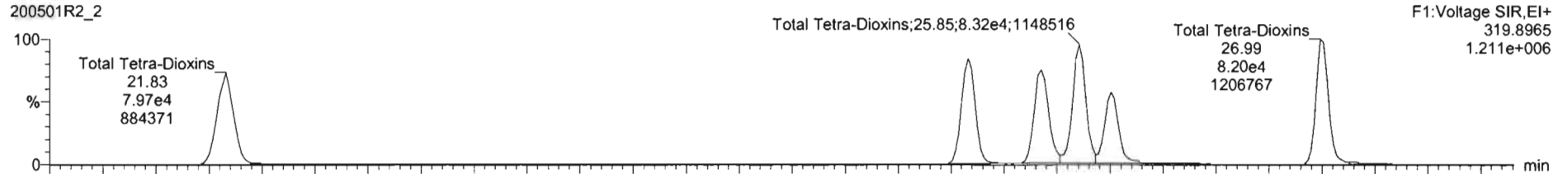
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Printed: Friday, May 01, 2020 5:00:57 PM Pacific Daylight Time

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

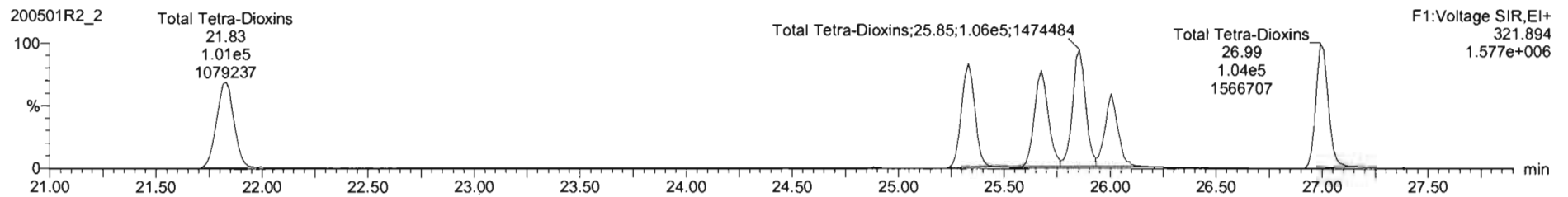
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**2,3,7,8-TCDD**

200501R2\_2

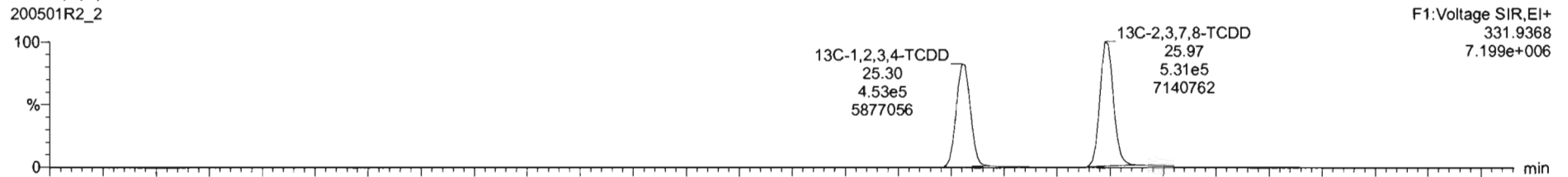


200501R2\_2

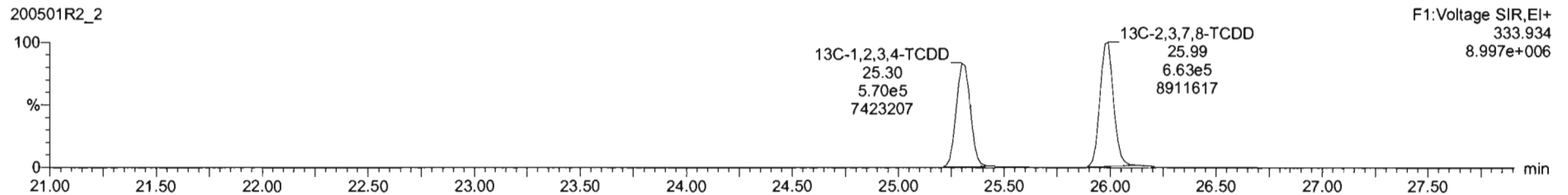


**13C-2,3,7,8-TCDD**

200501R2\_2



200501R2\_2



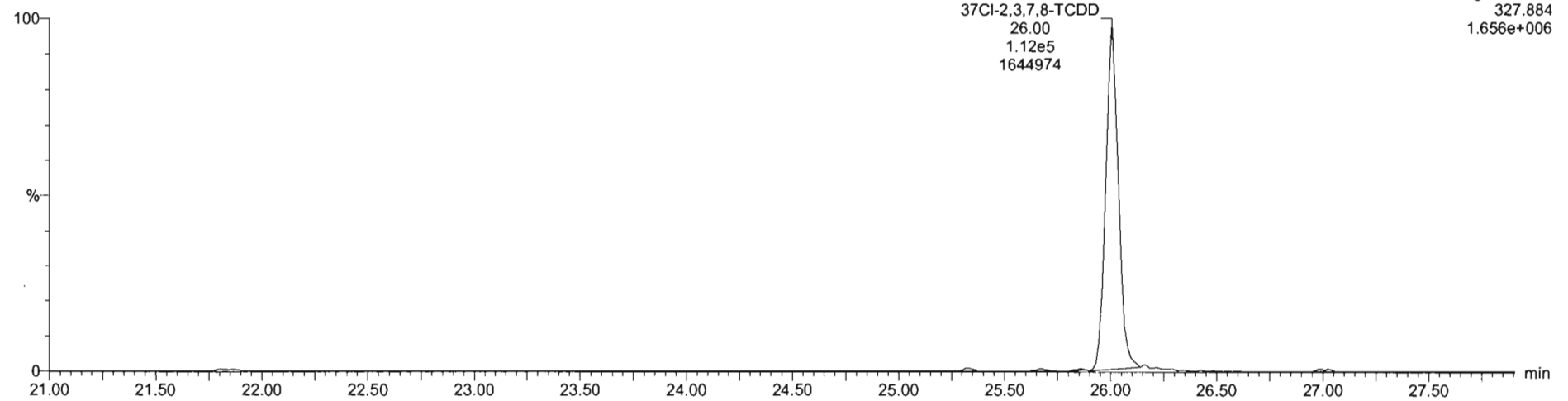
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Last Altered: Friday, May 01, 2020 5:00:47 PM Pacific Daylight Time  
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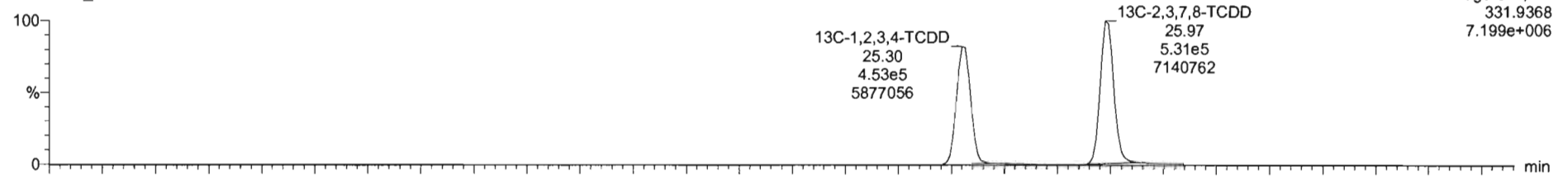
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200501R2\_2

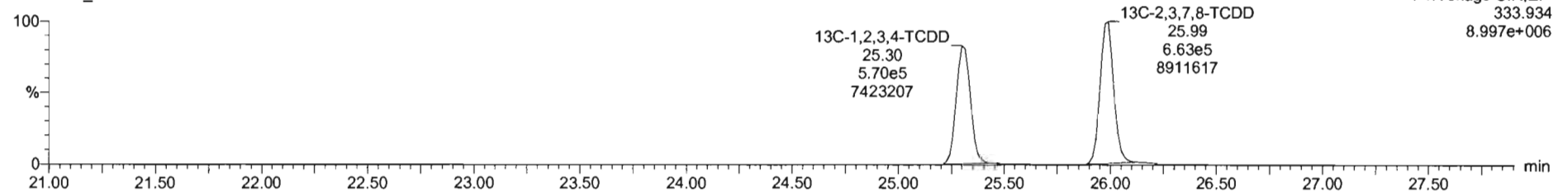


**13C-1,2,3,4-TCDD**

200501R2\_2



200501R2\_2





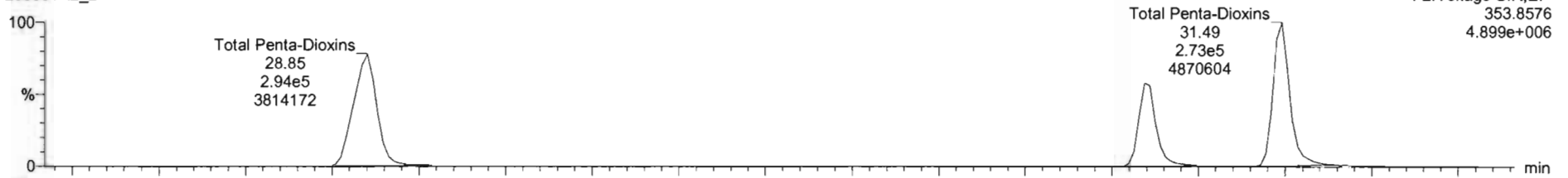
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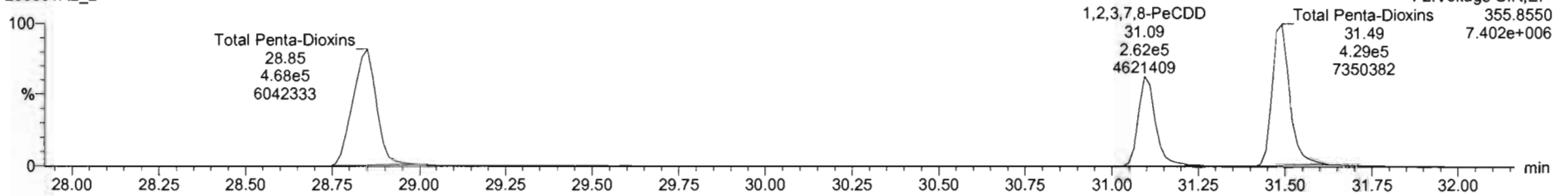
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**1,2,3,7,8-PeCDD**

200501R2\_2

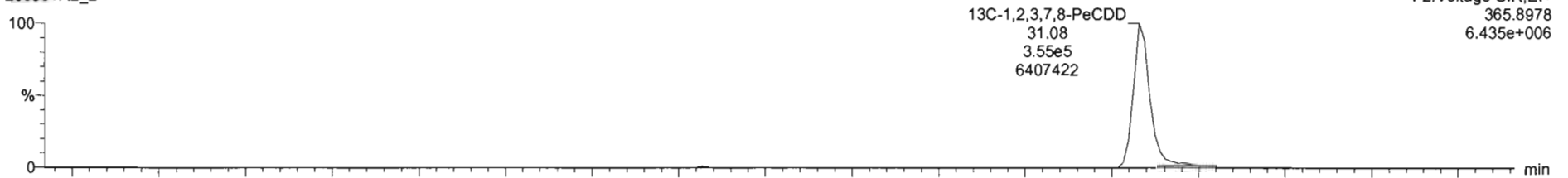


200501R2\_2

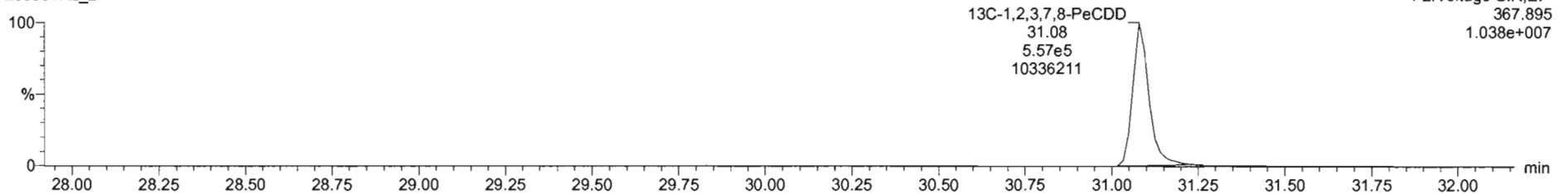


**13C-1,2,3,7,8-PeCDD**

200501R2\_2



200501R2\_2



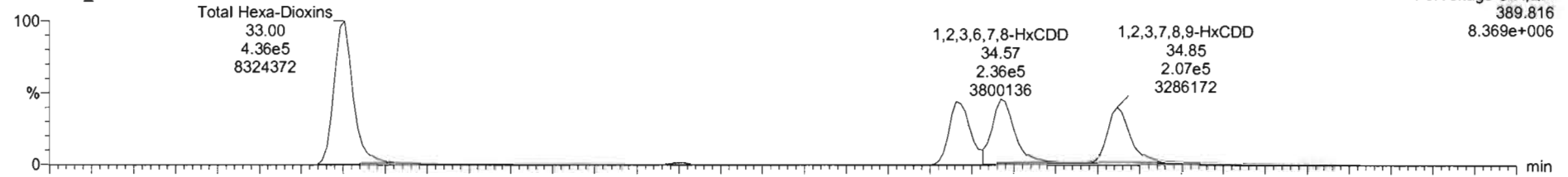
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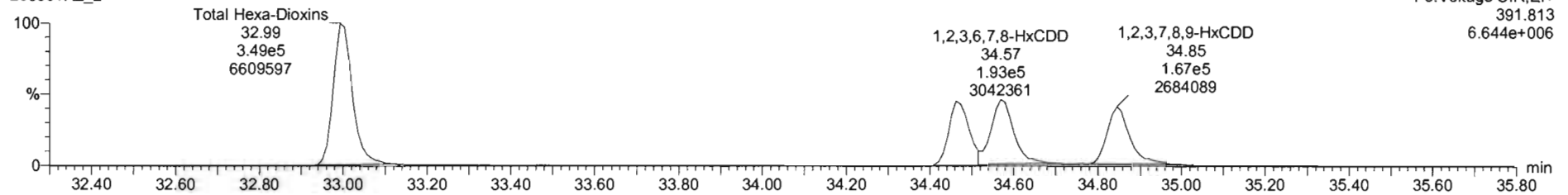
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**1,2,3,4,7,8-HxCDD**

200501R2\_2

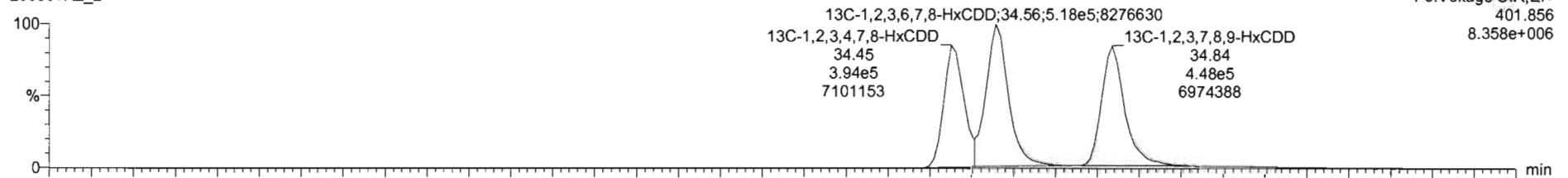


200501R2\_2

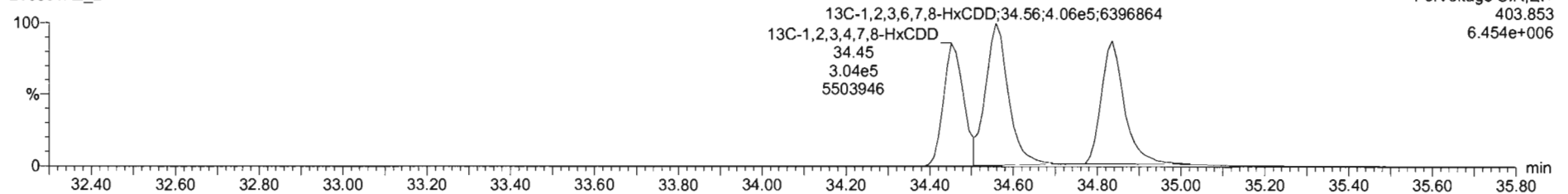


**13C-1,2,3,4,7,8-HxCDD**

200501R2\_2



200501R2\_2



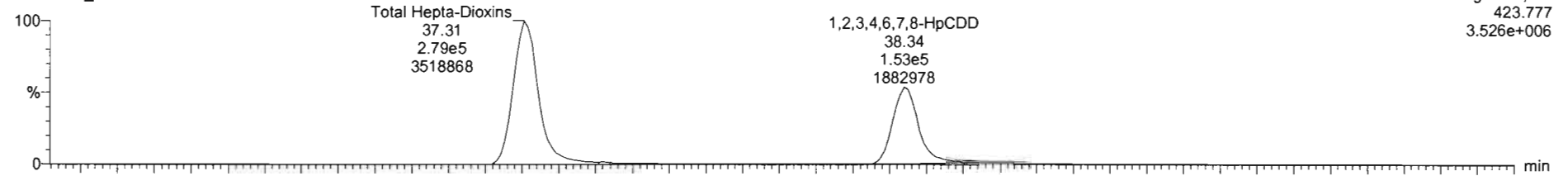
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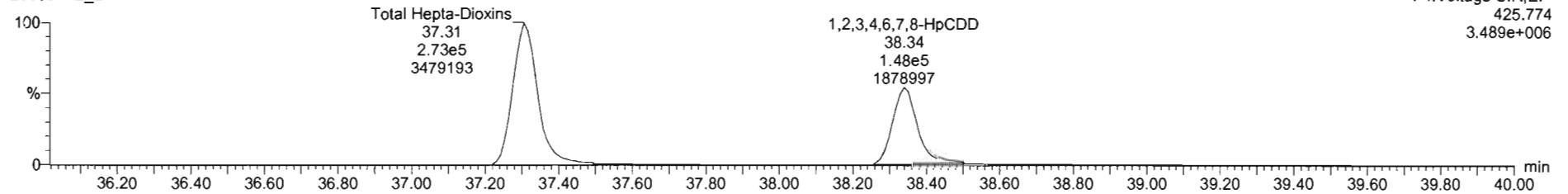
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1,2,3,4,6,7,8-HpCDD

200501R2\_2

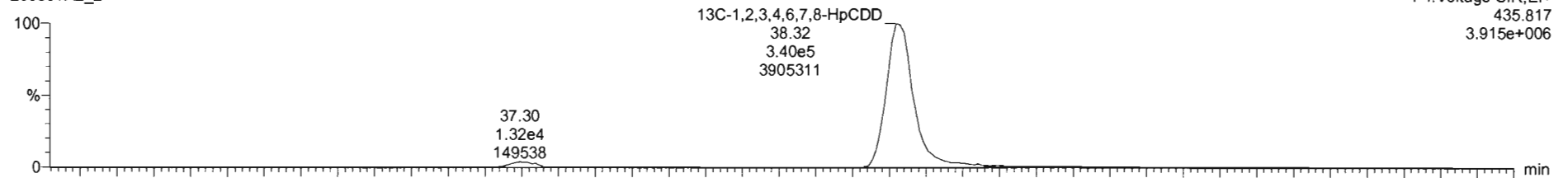


200501R2\_2

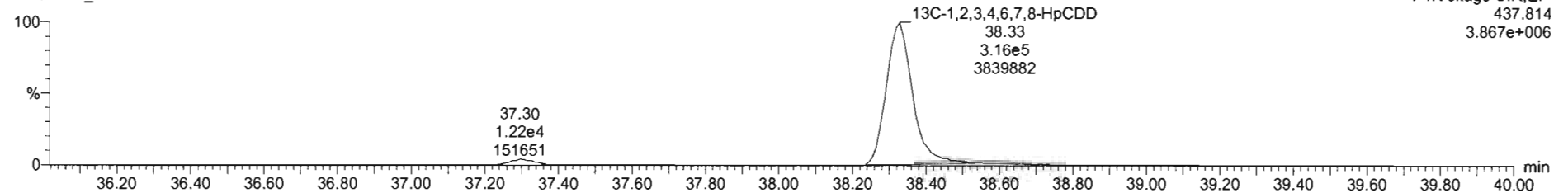


13C-1,2,3,4,6,7,8-HpCDD

200501R2\_2



200501R2\_2



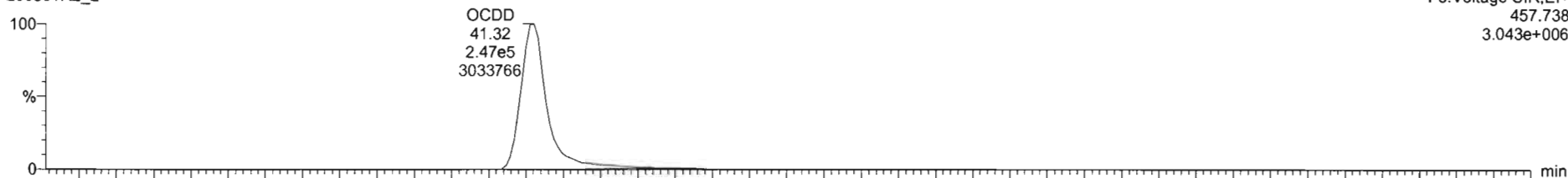
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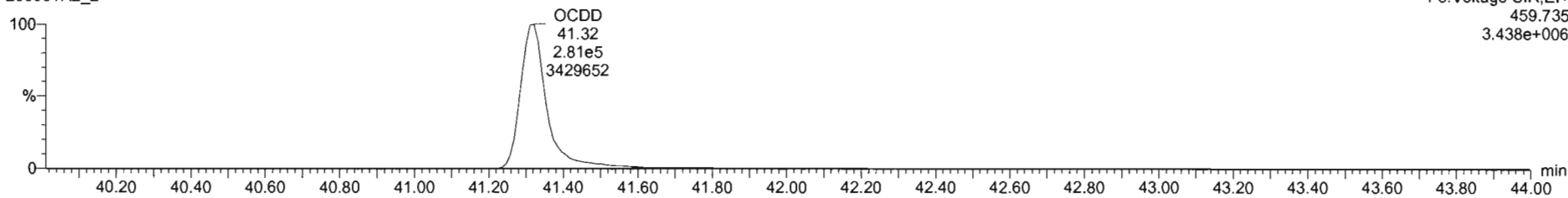
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**OCDD**

200501R2\_2

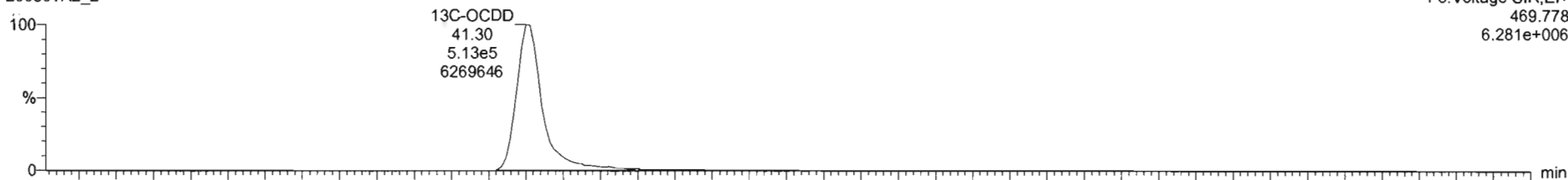


200501R2\_2

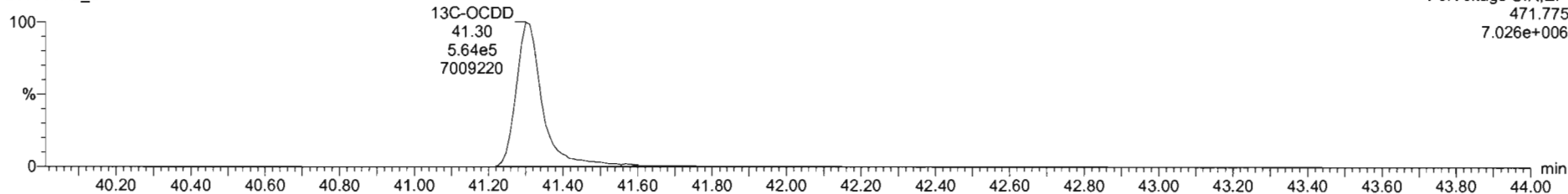


**13C-OCDD**

200501R2\_2

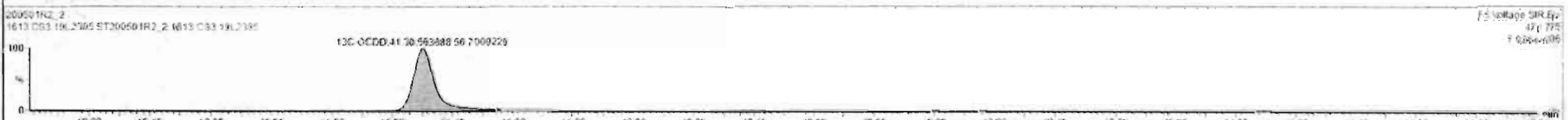
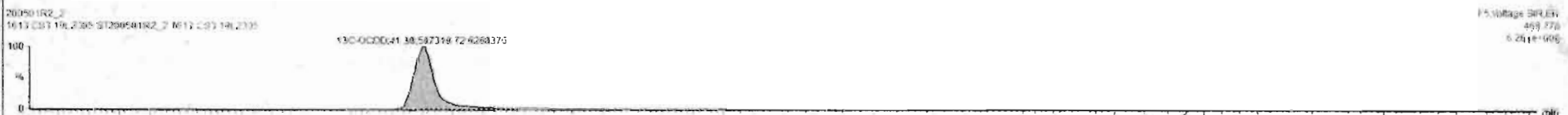
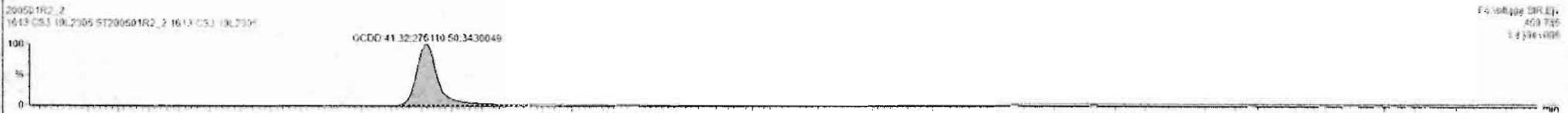


200501R2\_2



ST200501R2\_2 1613 CS2 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	ny	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	1.19e5	1.19e5	0.77	0.80	NO	0.9475	26.01	26.00	NO	1.001	1.001	10.5	105	NO
2	1,2,3,7,8-PeCDD	4.27e5	9.12e5	0.63	0.63	NO	0.9425	31.10	31.09	NO	1.001	1.000	49.7	95.4	NO
3	1,2,3,4,7,8-HxCDD	3.05e5	6.95e5	1.24	1.21	NO	1.0641	34.46	34.48	NO	1.000	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	4.26e5	9.24e5	1.24	1.22	NO	0.9145	34.50	34.52	NO	1.000	1.000	50.7	101	NO
5	1,2,3,7,8,9-HxCDD	3.74e5	8.03e5	1.24	1.24	NO	0.9149	34.85	34.85	NO	1.000	1.000	50.9	102	NO
6	1,2,3,4,6,7,8-HpCDD	3.01e5	5.96e5	1.24	1.24	NO	0.9975	36.33	36.34	NO	1.000	1.001	51.0	102	NO
7	OCDD	5.20e5	1.07e5	0.89	0.89	NO	0.8335	41.30	41.32	NO	1.000	1.001	104	104	NO
8	2,3,7,8-TCDF	1.79e5	1.71e5	0.77	0.76	NO	0.9571	25.06	25.06	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	6.07e5	1.45e5	1.55	1.59	NO	0.9162	29.79	29.78	NO	1.001	1.001	52.0	104	NO
10	1,2,3,4,7,8-PeCDF	6.90e5	1.40e5	1.55	1.58	NO	0.9664	30.79	30.72	NO	1.001	1.000	50.9	102	NO
11	1,2,3,4,7,8-HxCDF	4.84e5	1.02e5	1.24	1.21	NO	0.9762	33.60	33.61	NO	1.000	1.000	54.1	105	NO
12	1,2,3,6,7,8-HxCDF	5.48e5	1.15e5	1.24	1.22	NO	0.8740	33.73	33.73	NO	1.000	1.000	52.9	105	NO
13	1,2,3,4,6,7,8-HxCDF	5.95e5	1.05e5	1.24	1.25	NO	0.9217	34.32	34.30	NO	1.001	1.001	52.4	105	NO
14	1,2,3,7,8,9-HxCDF	3.71e5	6.01e5	1.24	1.20	NO	0.8642	35.18	35.19	NO	1.000	1.000	53.0	107	NO
15	1,2,3,4,6,7,8-HpCDF	3.92e5	8.41e5	1.24	1.21	NO	0.8712	36.95	36.92	NO	1.001	1.000	53.6	107	NO
16	1,2,3,4,7,8,9-HpCDF	2.61e5	4.75e5	1.24	1.21	NO	1.0116	38.51	38.50	NO	1.000	1.000	54.2	106	NO
17	OCDF	4.74e5	1.13e5	0.89	0.88	NO	0.8021	41.48	41.48	NO	1.000	1.000	104	104	NO



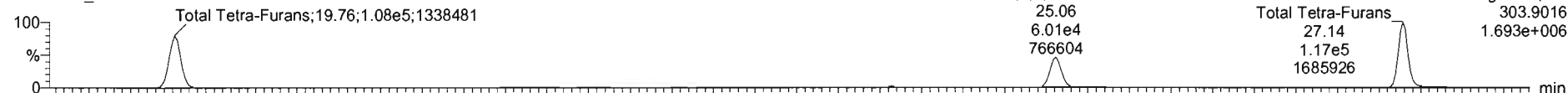
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Printed: Friday, May 01, 2020 5:00:57 PM Pacific Daylight Time

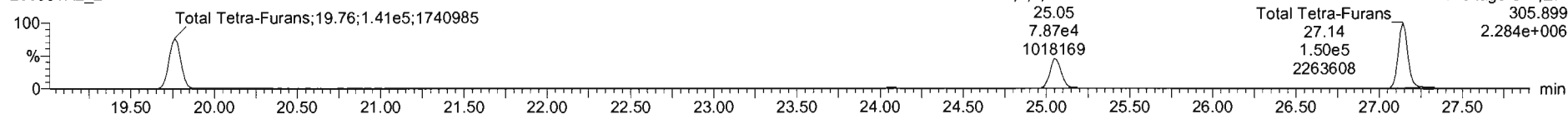
Name: 200501R2\_2, Date: 01-May-2020, Time: 16:08:12, ID: ST200501R2\_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200501R2\_2

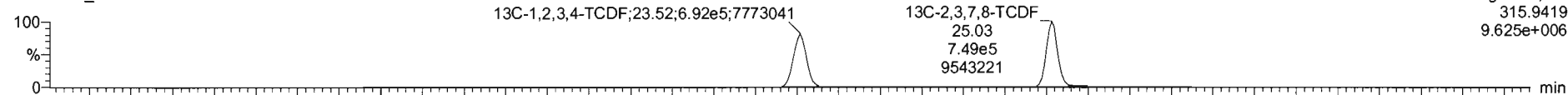


200501R2\_2

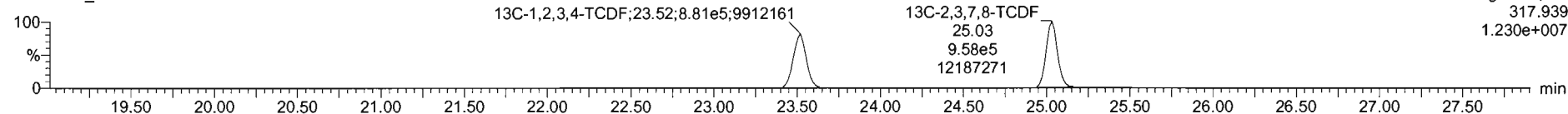


**13C-2,3,7,8-TCDF**

200501R2\_2

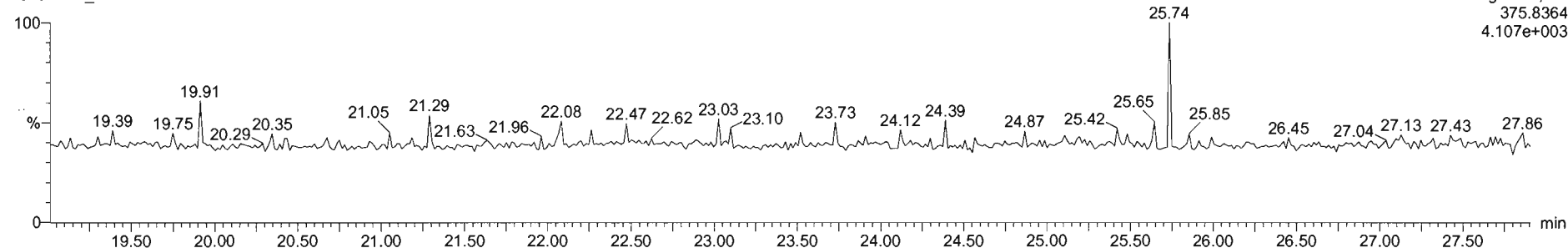


200501R2\_2



**DPE1**

200501R2\_2



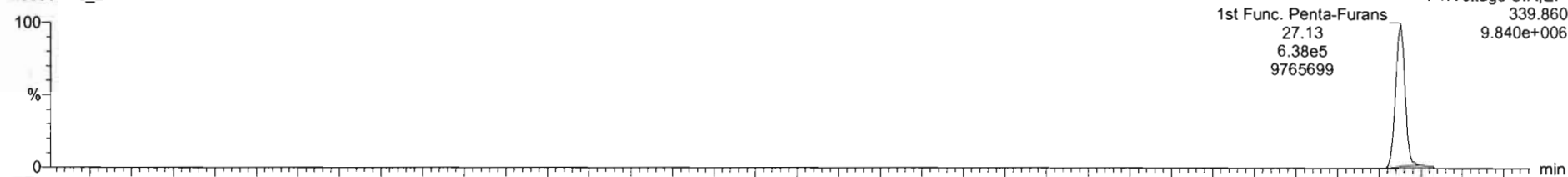
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Printed: Friday, May 01, 2020 5:00:57 PM Pacific Daylight Time

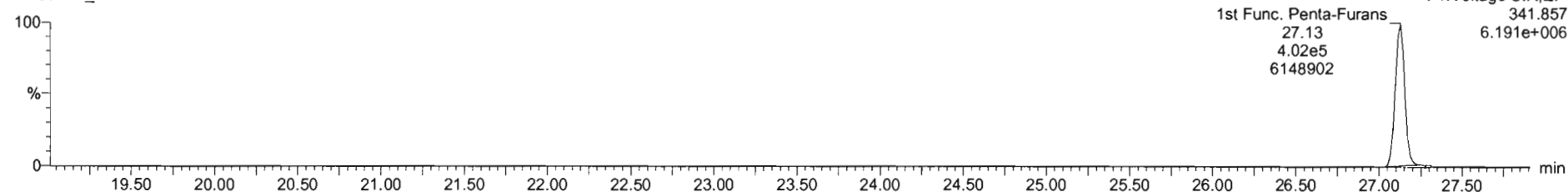
Name: 200501R2\_2, Date: 01-May-2020, Time: 16:08:12, ID: ST200501R2\_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200501R2\_2

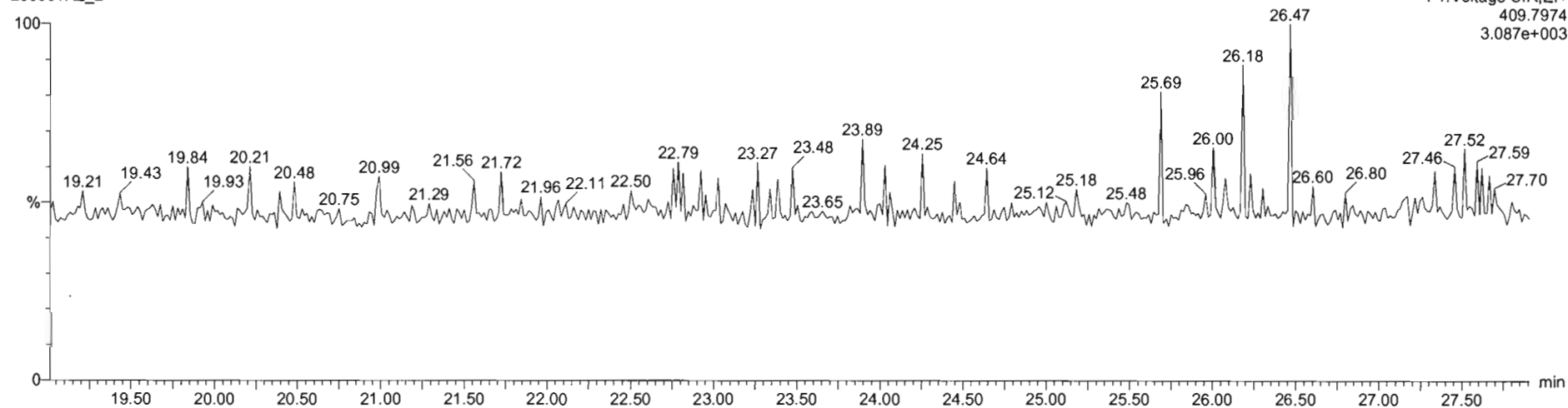


200501R2\_2



DPE6

200501R2\_2



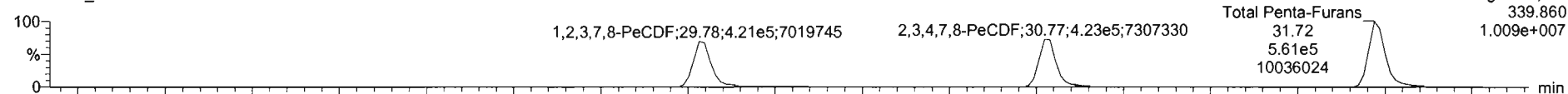
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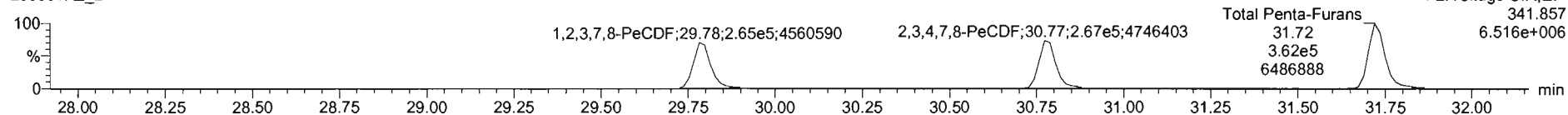
Name: 200501R2\_2, Date: 01-May-2020, Time: 16:08:12, ID: ST200501R2\_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200501R2\_2

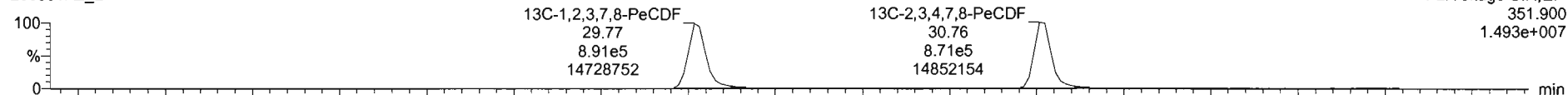


200501R2\_2

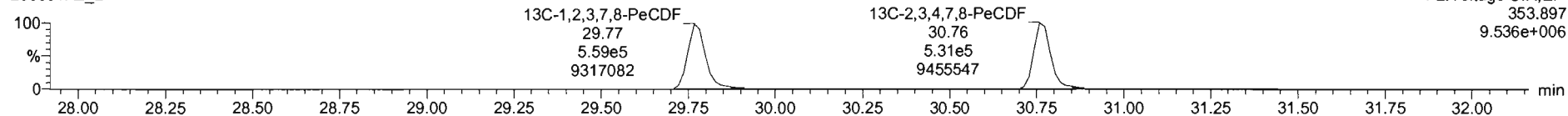


**13C-1,2,3,7,8-PeCDF**

200501R2\_2

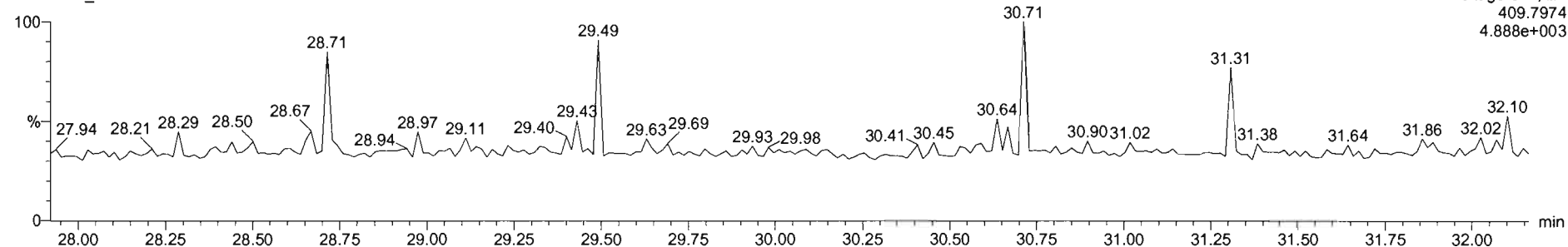


200501R2\_2



**DPE2**

200501R2\_2



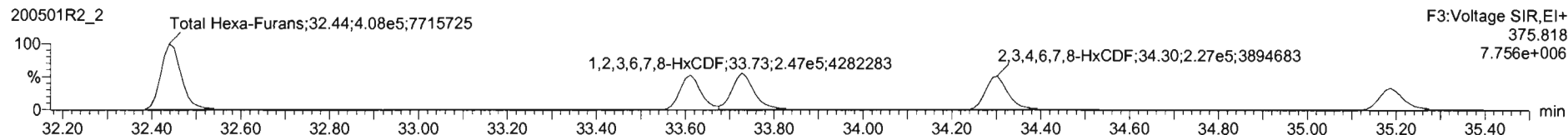
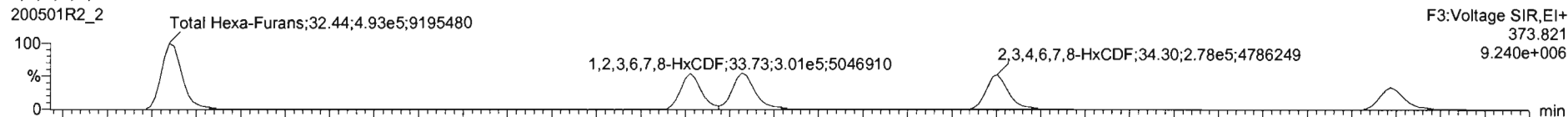


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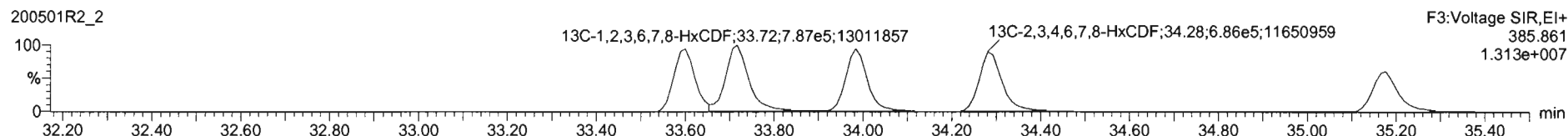
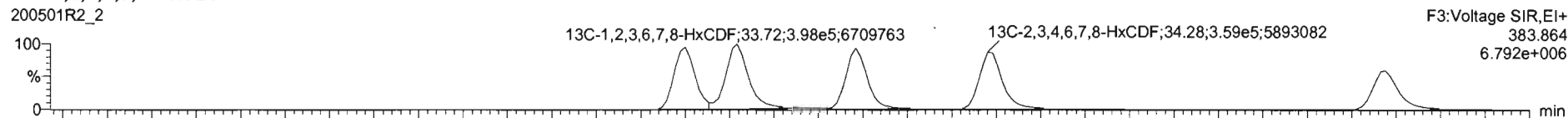
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Printed: Friday, May 01, 2020 5:00:57 PM Pacific Daylight Time

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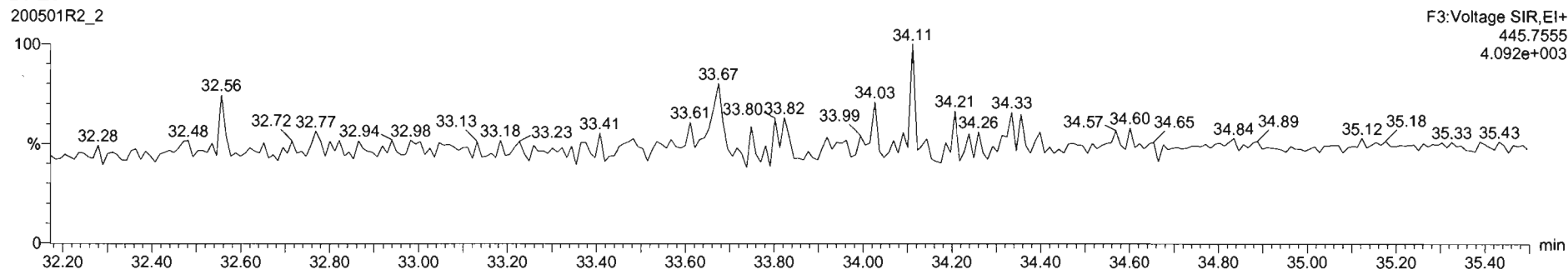
**1,2,3,4,7,8-HxCDF**



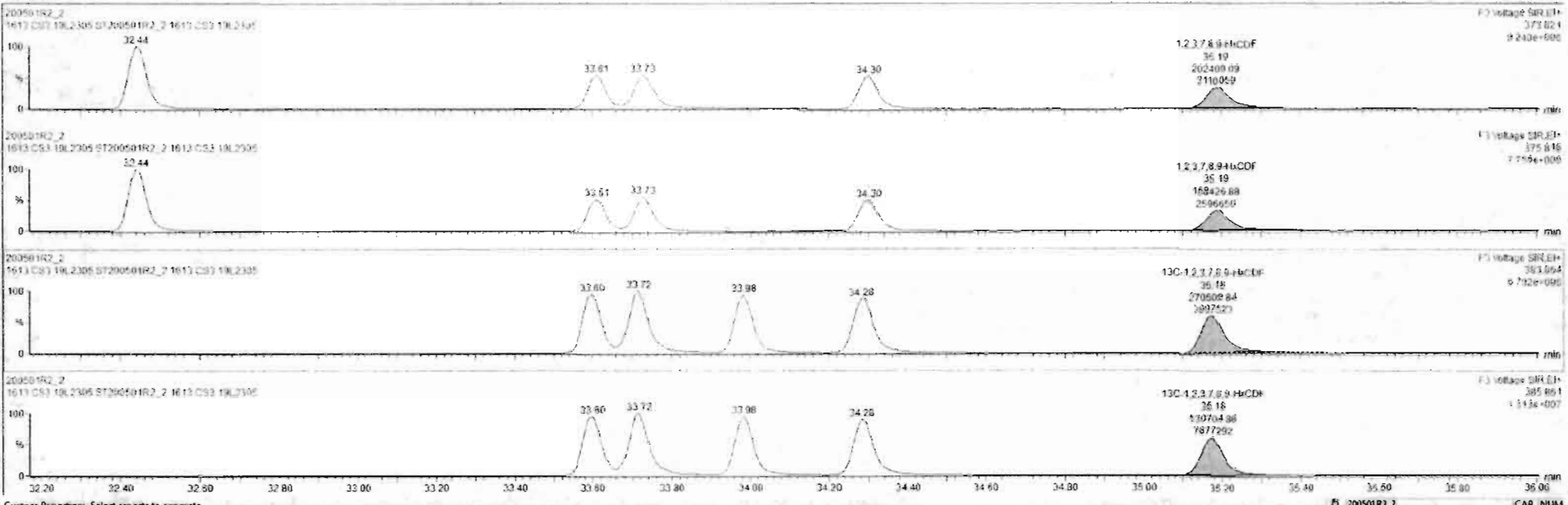
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



#	Name	Resp	S 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	1.19e5	1.19e5	0.77	0.80	NO	0.8475	26.01	26.00	NO	1.001	1.001	10.5	105	NO
2	1,2,3,7,8-PeCDD	4.27e5	9.12e5	0.52	0.83	NO	0.9425	31.10	31.09	NO	1.001	1.000	49.7	96.4	NO
3	1,2,3,4,7,8-HxCDD	3.89e5	6.99e5	1.24	1.31	NO	1.0641	34.46	34.46	NO	1.000	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	4.29e5	9.24e5	1.24	1.22	NO	0.9145	34.56	34.52	NO	1.000	1.000	50.7	101	NO
5	1,2,3,7,8,9-HxCDD	3.74e5	8.03e5	1.24	1.24	NO	0.9145	34.85	34.85	NO	1.000	1.000	50.5	102	NO
6	1,2,3,4,6,7,8-HpCDD	3.01e5	8.96e5	1.04	1.04	NO	0.8979	38.33	38.54	NO	1.000	1.001	51.0	102	NO
7	OCDD	5.20e5	1.07e6	0.86	0.88	NO	0.9335	41.30	41.32	NO	1.000	1.001	104	104	NO
8	1,2,3,7,8-TCDF	1.39e5	1.71e5	0.77	0.76	NO	0.7871	25.06	25.06	NO	1.001	1.001	10.2	101	NO
9	1,2,3,7,8-PeCDF	6.67e5	1.45e6	1.55	1.56	NO	0.9182	29.79	29.78	NO	1.001	1.001	52.0	104	NO
10	1,2,3,4,7,8-PeCDF	6.90e5	1.49e6	1.55	1.56	NO	0.8664	30.79	30.72	NO	1.001	1.000	50.9	102	NO
11	1,2,3,4,7,8-HxCDF	4.84e5	1.02e6	1.24	1.21	NO	0.8782	33.60	33.61	NO	1.000	1.000	54.1	105	NO
12	1,2,3,6,7,8-HxCDF	5.49e5	1.19e6	1.24	1.22	NO	0.8745	33.73	33.73	NO	1.000	1.000	52.5	106	NO
13	1,2,3,4,6,7,8-HpCDF	5.95e5	1.07e6	1.24	1.22	NO	0.9217	34.32	34.30	NO	1.001	1.001	52.4	105	NO
14	1,2,3,7,8,9-HxCDF	3.71e5	8.01e5	1.24	1.20	NO	0.8642	35.18	35.19	NO	1.000	1.000	53.6	107	NO
15	1,2,3,4,6,7,8-HpCDF	3.50e5	8.41e5	1.04	1.01	NO	0.8712	36.95	36.92	NO	1.001	1.000	53.6	107	NO
16	1,2,3,4,7,8,9-HpCDF	2.61e5	4.75e5	1.04	1.01	NO	1.0116	26.91	26.93	NO	1.000	1.000	54.2	108	NO
17	OCDF	4.74e5	1.15e6	0.85	0.82	NO	0.8021	41.48	41.49	NO	1.000	1.000	104	104	NO



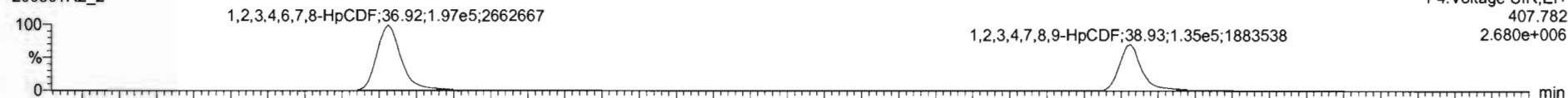
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Last Altered: Friday, May 01, 2020 5:00:47 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 5:00:57 PM Pacific Daylight Time

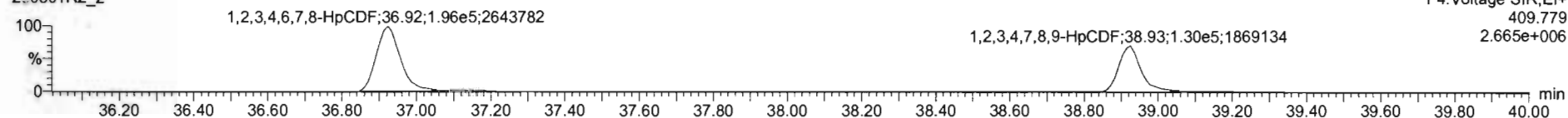
Name: 200501R2\_2, Date: 01-May-2020, Time: 16:08:12, ID: ST200501R2\_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200501R2\_2

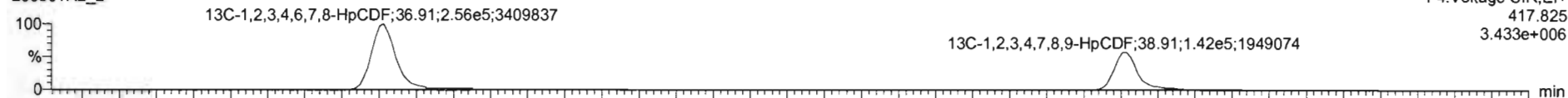


200501R2\_2

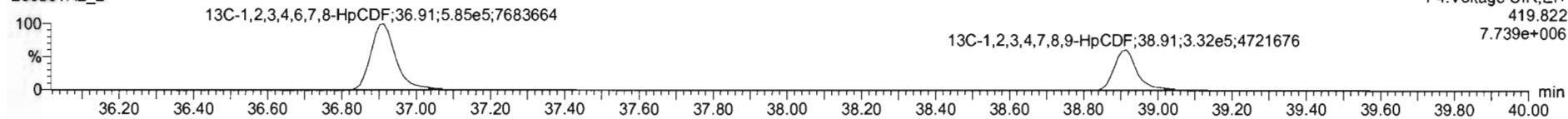


**13C-1,2,3,4,6,7,8-HpCDF**

200501R2\_2

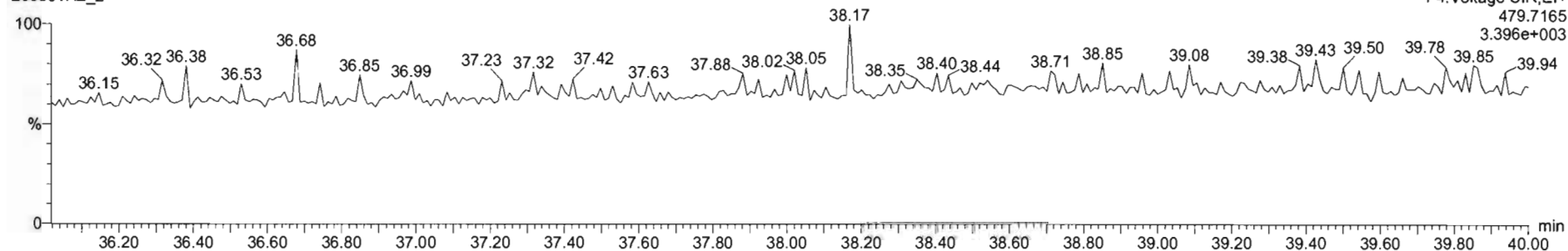


200501R2\_2

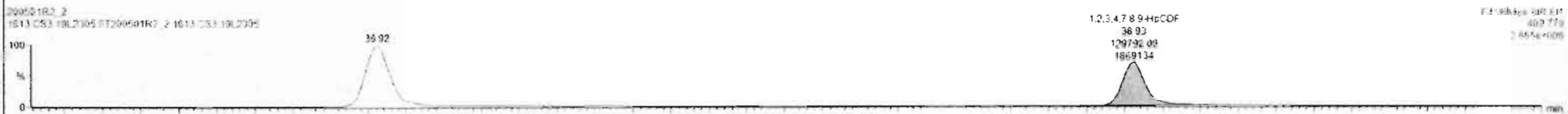


**DPE4**

200501R2\_2



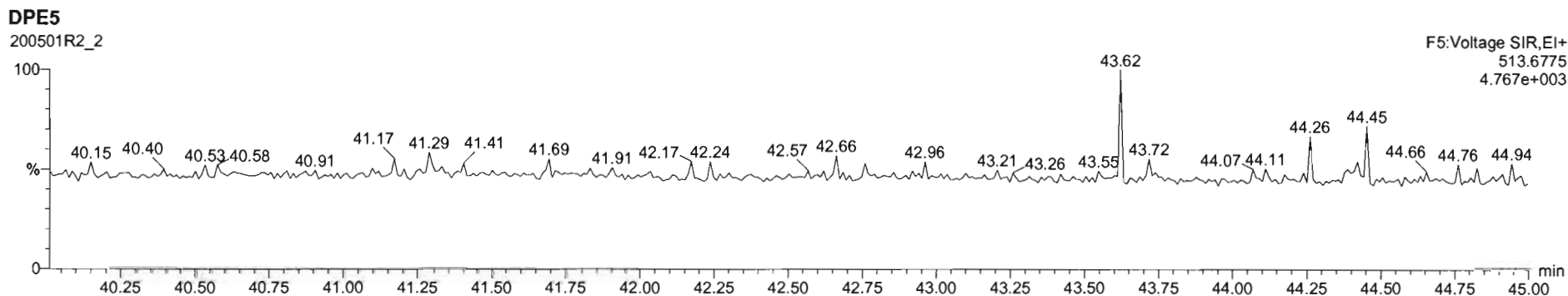
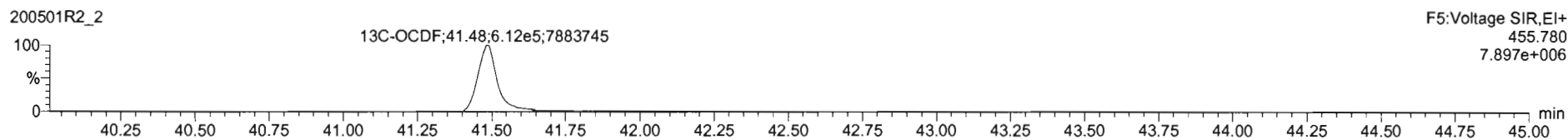
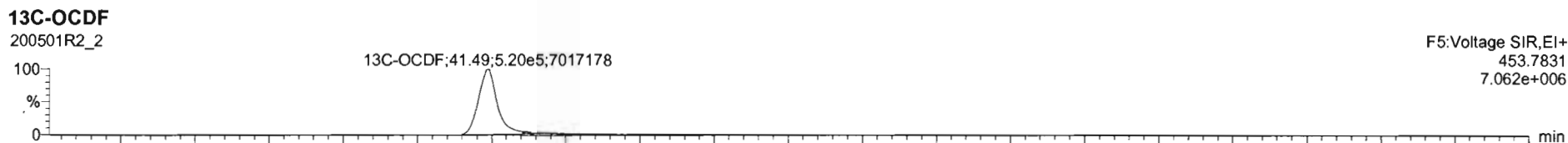
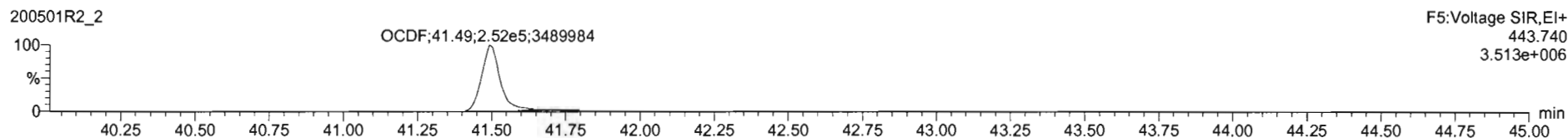
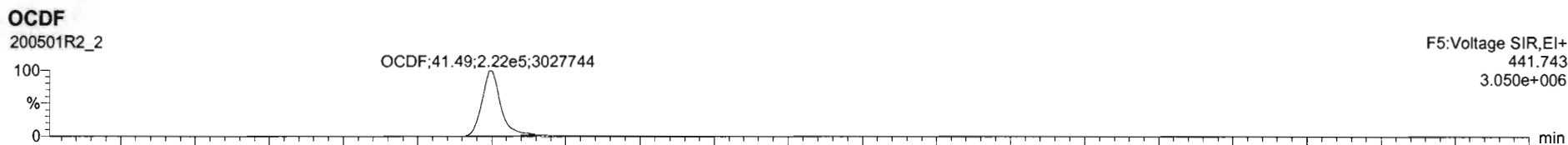
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2	1,2,3,7,8-PeCDD	4.27e5	9.12e5	0.63	0.63	NO	0.9425	31.10	31.09	NO	1.001	1.000	49.7	99.4	ND
3	1,2,3,4,7,8-HxCDD	3.05e5	6.95e5	1.24	1.31	NO	0.9641	34.48	34.46	NO	1.000	1.000	51.6	164	ND
4	1,2,3,6,7,8-HxCDD	4.29e5	9.24e5	1.24	1.22	NO	0.9145	34.56	34.57	NO	1.000	1.000	50.7	101	ND
5	1,2,3,7,8,9-HxCDD	3.74e5	8.03e5	1.24	1.24	NO	0.9149	34.85	34.85	NO	1.000	1.000	50.9	102	ND
6	1,2,3,4,6,7,8-HpCDD	3.91e5	8.96e5	1.04	1.04	NO	0.9970	38.33	38.34	NO	1.000	1.001	51.0	102	ND
7	OCDD	6.20e5	1.07e6	0.86	0.82	NO	0.9335	41.30	41.32	NO	1.000	1.001	104	104	ND
8	2,3,7,8-TCDF	1.09e5	1.71e5	0.77	0.76	NO	0.7871	25.06	25.06	NO	1.001	1.001	16.3	101	ND
9	1,2,3,7,8-PeCDF	6.07e5	1.45e6	1.55	1.59	NO	0.9192	29.79	29.78	NO	1.001	1.001	52.0	104	ND
10	1,2,3,4,7,8-PeCDF	6.90e5	1.48e6	1.55	1.58	NO	0.9664	30.79	30.77	NO	1.001	1.000	50.9	102	ND
11	1,2,3,4,7,8-HxCDF	4.64e5	1.02e6	1.24	1.21	NO	0.8782	33.80	33.61	NO	1.000	1.000	54.1	108	ND
12	1,2,3,6,7,8-HxCDF	5.48e5	1.19e6	1.24	1.22	NO	0.8740	33.73	33.73	NO	1.000	1.000	52.9	106	ND
13	1,2,3,4,6,7,8-HxCDF	5.05e5	1.05e6	1.24	1.22	NO	0.9217	34.32	34.30	NO	1.001	1.001	52.4	105	ND
14	1,2,3,7,8,9-HxCDF	3.71e5	8.01e5	1.24	1.20	NO	0.9642	35.18	35.19	NO	1.000	1.000	53.8	107	ND
15	1,2,3,4,6,7,8-HpCDF	3.92e5	8.41e5	1.04	1.01	NO	0.8712	36.95	36.92	NO	1.001	1.000	53.6	107	ND
16	1,2,3,4,7,8,9-HpCDF	2.81e5	4.75e5	1.04	1.01	NO	1.0199	38.91	38.93	NO	1.000	1.000	54.2	108	ND
17	OCDF	4.74e5	1.13e6	0.79	0.80	NO	0.8021	41.46	41.49	NO	1.000	1.000	104	104	ND



Dataset: Untitled

Last Altered: Friday, May 01, 2020 5:00:47 PM Pacific Daylight Time  
Printed: Friday, May 01, 2020 5:00:57 PM Pacific Daylight Time

Name: 200501R2\_2, Date: 01-May-2020, Time: 16:08:12, ID: ST200501R2\_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

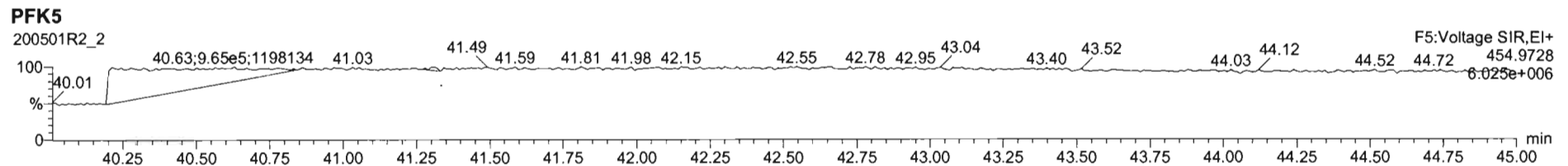
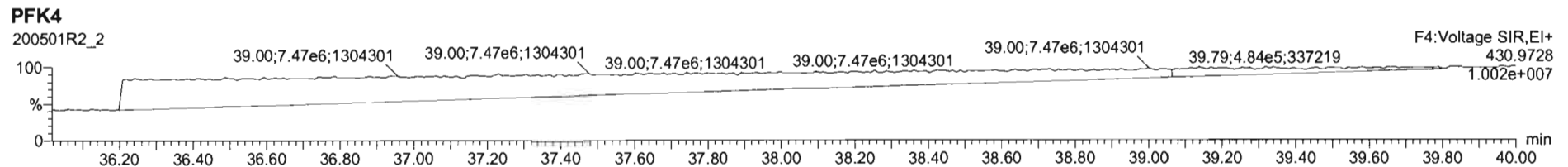
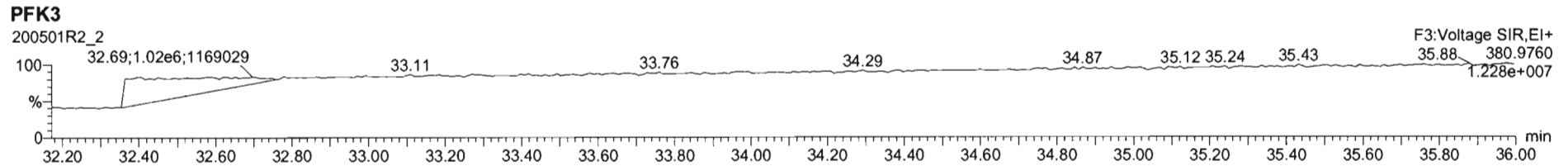
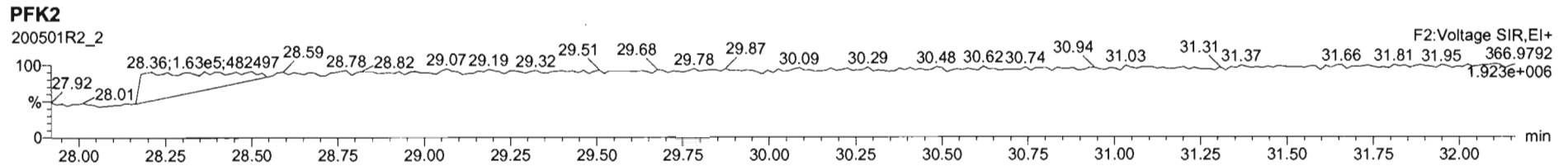
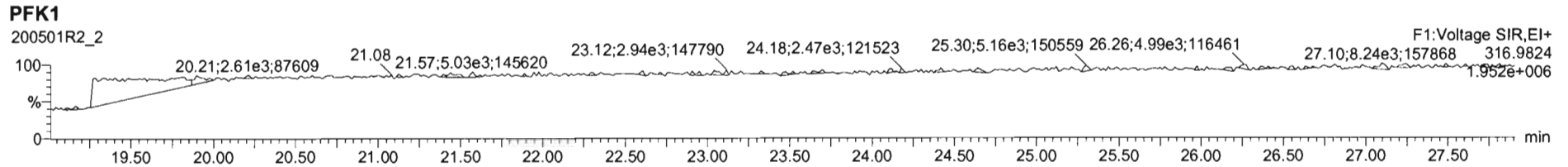


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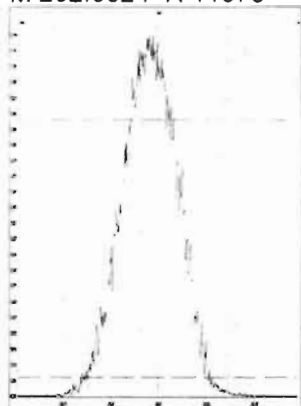
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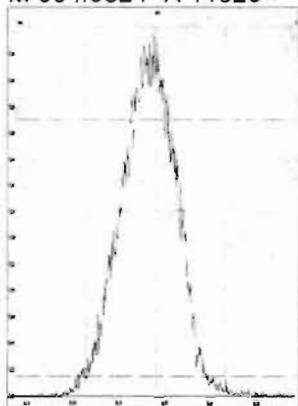
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Printed: Saturday, May 02, 2020 08:38:42 Pacific Daylight Time

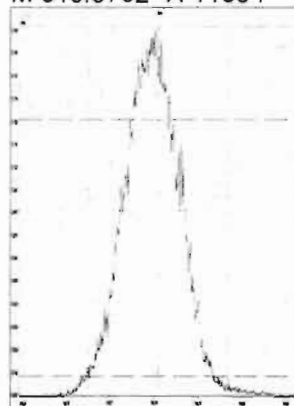
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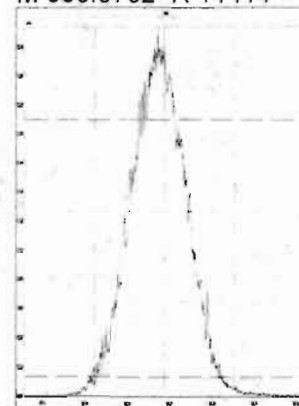
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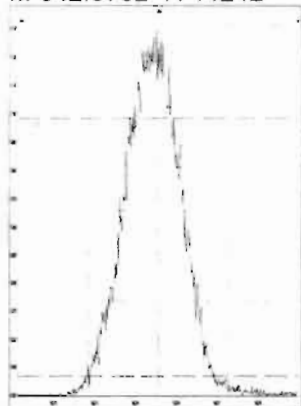
M 318.9792 R 11364



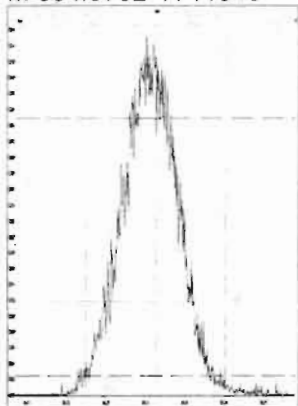
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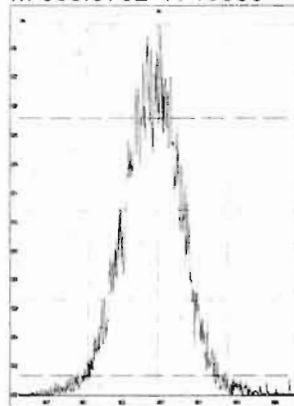
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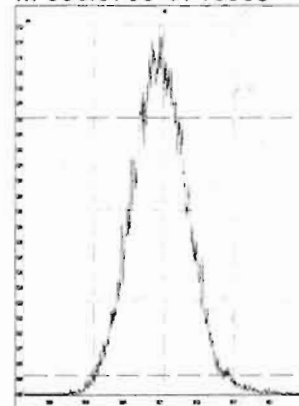
M 354.9792 R 11519



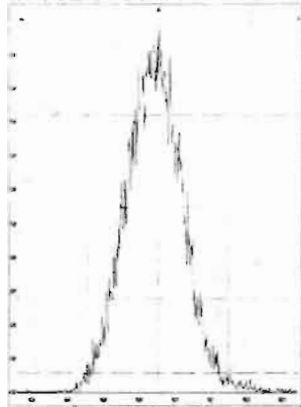
M 366.9792 R 10635



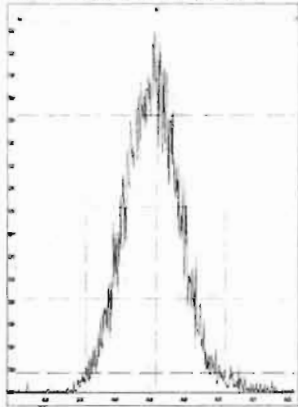
M 380.9760 R 10965



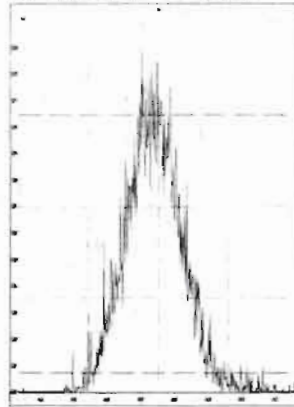
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M 404.9760 R 11111



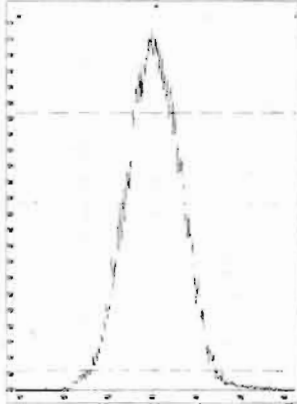
M 416.9760 R 12441



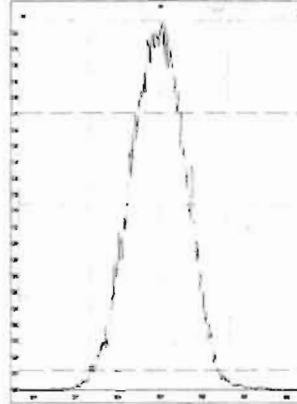
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Printed: Saturday, May 02, 2020 08:39:16 Pacific Daylight Time

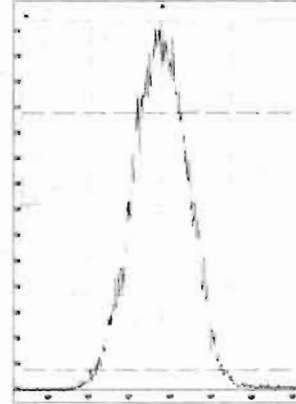
M 318.9792 R 11313



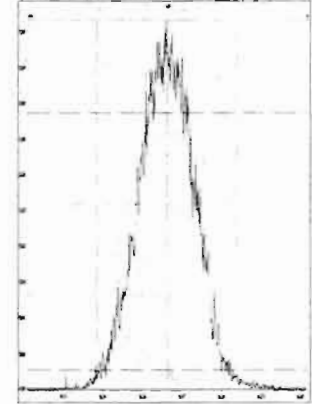
M 330.9792 R 11311



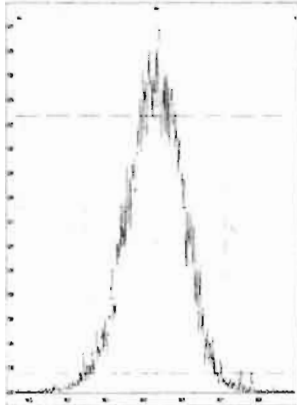
M 342.9792 R 11157



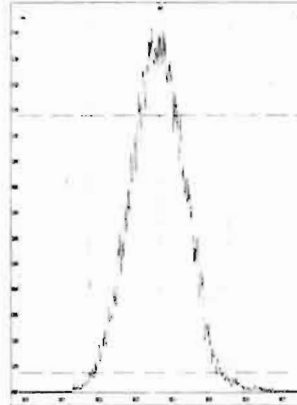
M 354.9792 R 12195



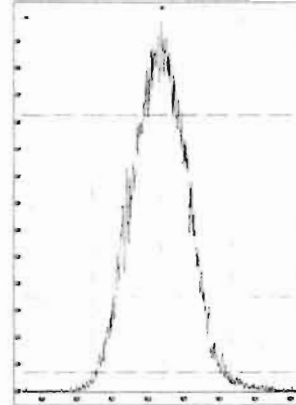
M 366.9792 R 11413



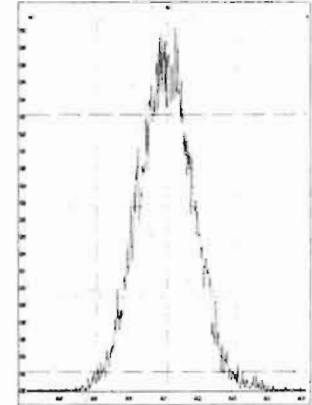
M 380.9760 R 11628



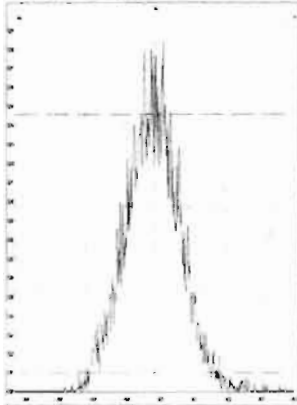
M 392.9760 R 11060



M 404.9760 R 11901



M 416.9760 R 12625

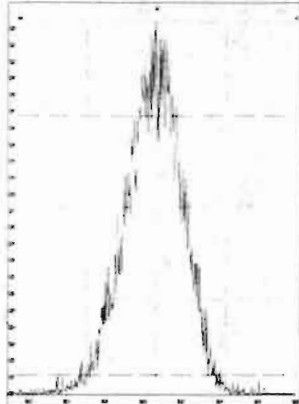




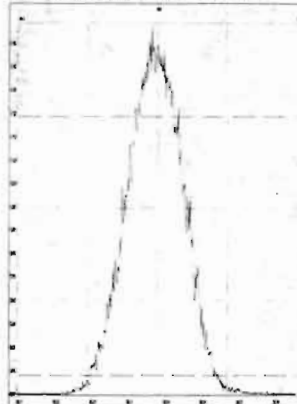
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, May 02, 2020 08:39:42 Pacific Daylight Time

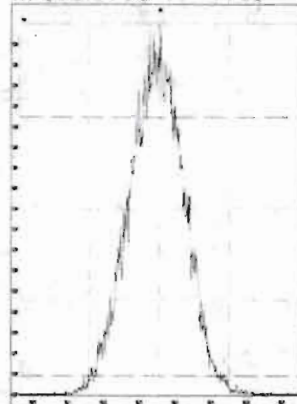
M 366.9792 R 11213



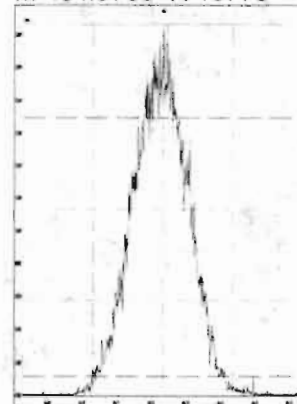
M 380.9760 R 11014



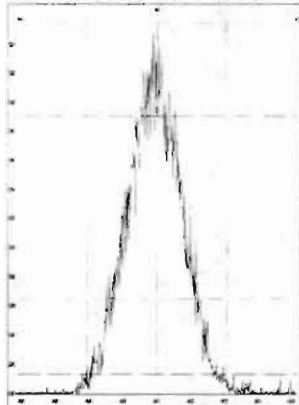
M 392.9760 R 11159



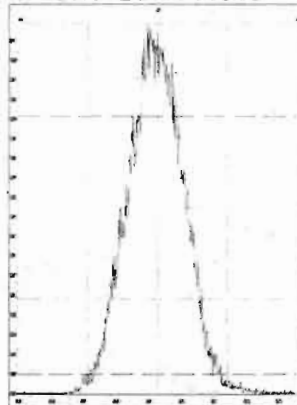
M 404.9760 R 10773



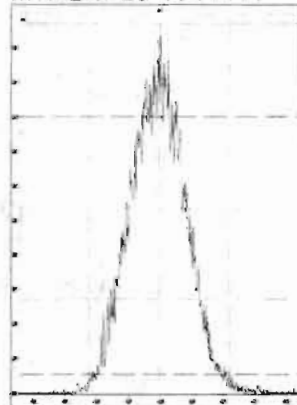
M 416.9760 R 11160



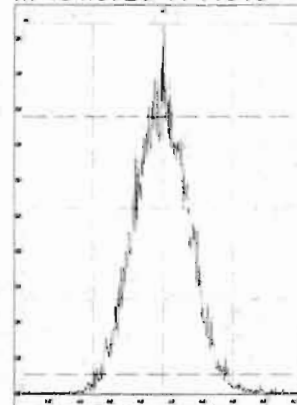
M 430.9728 R 11015



M 442.9728 R 11111



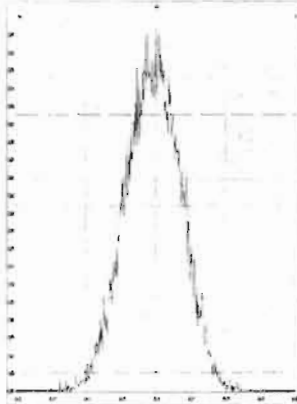
M 454.9728 R 11519



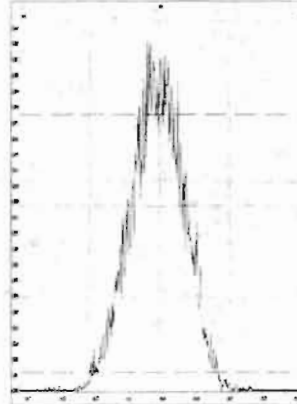
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, May 02, 2020 08:40:04 Pacific Daylight Time

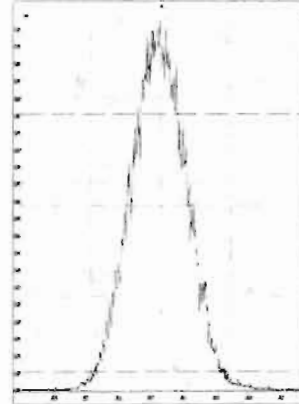
M 404.9760 R 11366



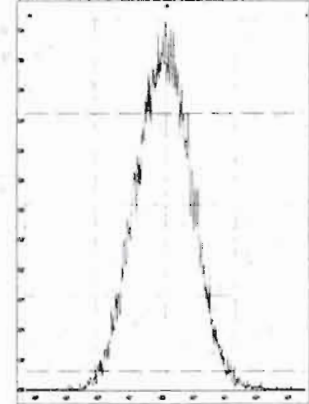
M 416.9760 R 10961



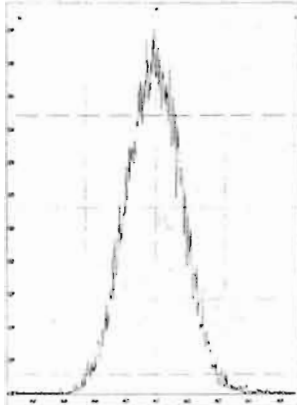
M 430.9728 R 11520



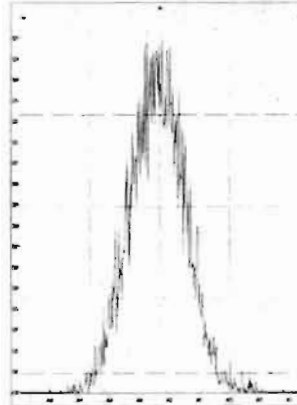
M 442.9728 R 11413



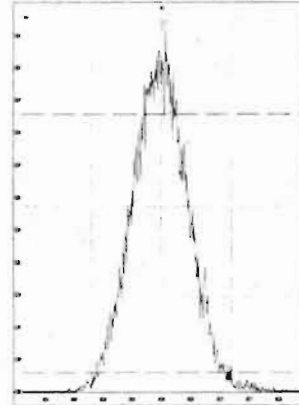
M 454.9728 R 11111



M 466.9728 R 11680



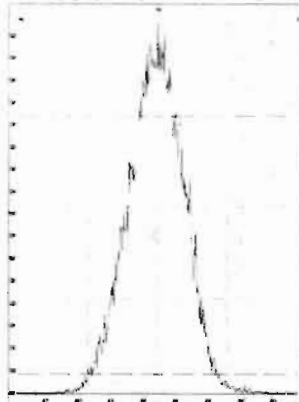
M 480.9696 R 11062



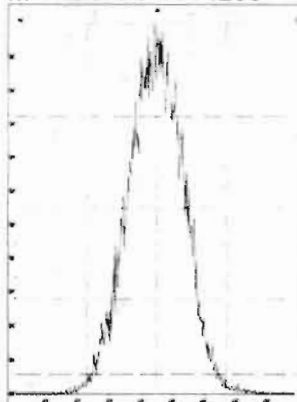
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, May 02, 2020 08:40:29 Pacific Daylight Time

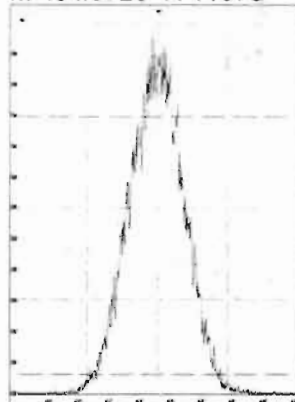
M 430.9728 R 11112



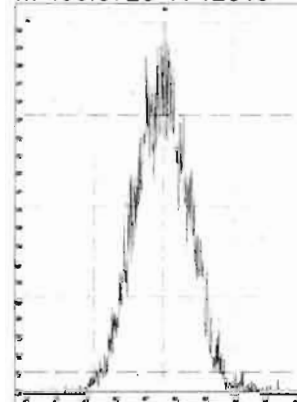
M 442.9728 R 11260



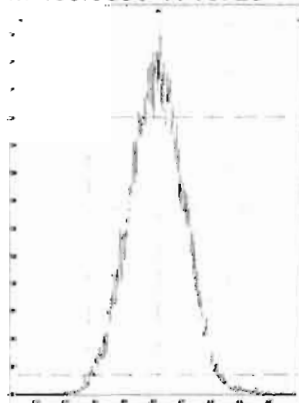
M 454.9728 R 11575



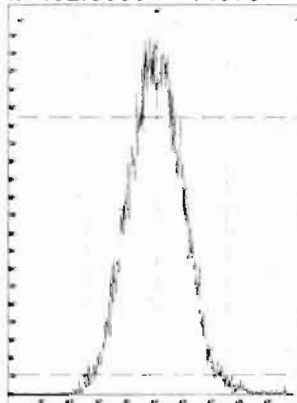
M 466.9728 R 12019



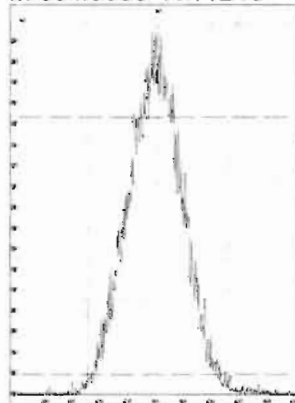
M 480.9696 R 10728



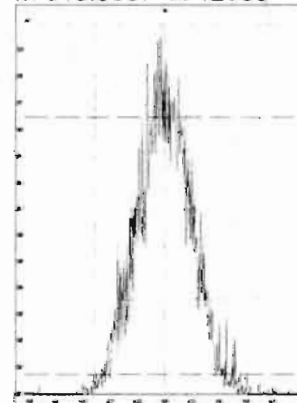
M 492.9696 R 11575



M 504.9696 R 11210



M 516.9697 R 12309



**HRMS CALIBRATION STANDARDS REVIEW CHECKLIST**

**Beg. Calibration ID:** ST20050621-1

**Reviewed By:** CT 03/07/2020  
*Initials & Date*

**End Calibration ID:** ST20050622-1

	<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		
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1614   1699   429   1613/1668/8280		
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>GC Break &lt;20%</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>8280 CS1 End Standard:</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>(ST-Year-Month-Day-VG ID)</b>			<b>- Ratios within limits, S/N &lt;2.5:1, CS1 within 12 hours</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Comments:</b>		
<b>Correct ICAL referenced?</b>	<u>GEB</u>	<u>GEB</u>			
<b>Run Log:</b>					
<b>- Correct instrument listed?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<b>- Samples within 12 hour clock?</b>	<u>(Y)</u>	N			
<b>- Bottle position verified?</b>	<u>GEB</u>				

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-1.qld

Last Altered: Wednesday, May 06, 2020 8:46:03 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:30 AM Pacific Daylight Time

*GRB 05/06/2020*

*CT 05/07/2020*

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

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_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	8.53e4	8.93e5	0.75	NO	0.947	25.96	25.96	NO	1.001	1.001	10.084	101	NO
2	2 1,2,3,7,8-PeCDD	2.65e5	6.05e5	0.61	NO	0.942	31.07	31.06	NO	1.001	1.000	46.520	93.0	NO
3	3 1,2,3,4,7,8-HxCDD	1.88e5	3.72e5	1.24	NO	1.06	34.43	34.44	NO	1.000	1.001	47.496	95.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	NO	0.915	34.53	34.54	NO	1.000	1.000	48.818	97.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	NO	0.915	34.81	34.81	NO	1.000	1.000	47.302	94.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.42e5	3.26e5	1.04	NO	0.898	38.31	38.31	NO	1.000	1.000	48.611	97.2	NO
7	7 OCDD	2.41e5	5.25e5	0.89	NO	0.933	41.30	41.31	NO	1.000	1.000	98.280	98.3	NO
8	8 2,3,7,8-TCDF	9.15e4	1.21e6	0.76	NO	0.787	25.01	25.00	NO	1.001	1.001	9.6344	96.3	NO
9	9 1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.62	NO	0.910	29.76	29.75	NO	1.001	1.000	49.530	99.1	NO
10	10 2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.56	NO	0.966	30.76	30.74	NO	1.001	1.000	47.465	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.48e5	5.42e5	1.21	NO	0.878	33.57	33.58	NO	1.000	1.000	52.082	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.08e5	6.64e5	1.22	NO	0.874	33.69	33.70	NO	1.000	1.000	53.070	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.68e5	1.19	NO	0.922	34.29	34.27	NO	1.001	1.000	51.966	104	NO
14	14 1,2,3,7,8,9-HxCDF	1.87e5	4.07e5	1.23	NO	0.864	35.15	35.15	NO	1.000	1.000	53.029	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.00	NO	0.871	36.92	36.89	NO	1.001	1.000	52.340	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	0.98	NO	1.01	38.88	38.90	NO	1.000	1.000	53.202	106	NO
17	17 OCDF	2.37e5	5.76e5	0.88	NO	0.802	41.47	41.48	NO	1.000	1.000	102.74	103	NO
18	18 13C-2,3,7,8-TCDD	8.93e5	7.50e5	0.79	NO	1.16	25.92	25.93	NO	1.026	1.027	102.67	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.05e5	7.50e5	0.63	NO	0.847	31.00	31.05	NO	1.227	1.229	95.247	95.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.29	NO	0.750	34.43	34.42	NO	1.014	1.014	92.391	92.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.26	NO	0.963	34.54	34.53	NO	1.017	1.017	105.00	105	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.52e5	5.37e5	1.25	NO	0.838	34.81	34.80	NO	1.025	1.025	100.42	100	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.26e5	5.37e5	1.05	NO	0.641	38.29	38.30	NO	1.128	1.128	94.465	94.5	NO
24	24 13C-OCDD	5.25e5	5.37e5	0.88	NO	0.586	41.28	41.30	NO	1.216	1.217	166.67	83.3	NO
25	25 13C-2,3,7,8-TCDF	1.21e6	1.15e6	0.75	NO	1.03	24.99	24.99	NO	0.989	0.989	101.81	102	NO
26	26 13C-1,2,3,7,8-PeCDF	9.22e5	1.15e6	1.59	NO	0.845	29.69	29.74	NO	1.176	1.177	95.218	95.2	NO
27	27 13C-2,3,4,7,8-PeCDF	8.72e5	1.15e6	1.60	NO	0.814	30.68	30.73	NO	1.215	1.217	93.527	93.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.42e5	5.37e5	0.50	NO	1.00	33.57	33.57	NO	0.989	0.989	100.37	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.64e5	5.37e5	0.50	NO	1.14	33.69	33.69	NO	0.992	0.992	108.66	109	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.68e5	5.37e5	0.49	NO	1.02	34.26	34.26	NO	1.009	1.009	103.34	103	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.07e5	5.37e5	0.51	NO	0.845	35.15	35.15	NO	1.035	1.035	89.744	89.7	NO

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-1.qld

Last Altered: Wednesday, May 06, 2020 8:46:03 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:30 AM Pacific Daylight Time

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.28e5	5.37e5	0.42	NO	0.771	36.88	36.88	NO	1.086	1.086	103.35	103	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.29e5	5.37e5	0.43	NO	0.482	38.88	38.88	NO	1.145	1.145	88.413	88.4	NO
34	34 13C-OCDF	5.76e5	5.37e5	0.89	NO	0.669	41.45	41.47	NO	1.221	1.222	160.42	80.2	NO
35	35 37Cl-2,3,7,8-TCDD	8.14e4	7.50e5			1.10	25.95	25.96	NO	1.028	1.028	9.8805	98.8	NO
36	36 13C-1,2,3,4-TCDD	7.50e5	7.50e5	0.80	NO	1.00	25.35	25.26	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.15e6	1.15e6	0.79	NO	1.00	23.56	23.46	NO	1.000	1.000	100.00	100	NO
33	38 13C-1,2,3,4,6,9-HxCDF	5.37e5	5.37e5	0.50	NO	1.00	34.00	33.95	NO	1.000	1.000	100.00	100	YES <sup>ot</sup>

Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:26:48 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 2:26:56 PM Pacific Daylight Time

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

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

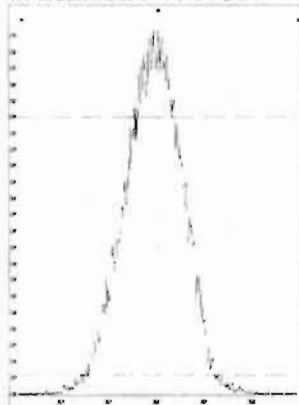
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200506R1_1	ST200506R1_1 1613 CS3 19L2305	06-May-20	07:56:17
2	200506R1_2	B0E0015-BS1 OPR 10	06-May-20	08:43:47
3	200506R1_3	SOLVENT BLANK	06-May-20	09:30:53
4	200506R1_4	B0E0015-BLK1 Method Blank 10	06-May-20	10:17:03
5	200506R1_5	2000829-01 Finished Ice - Melted 0.99059	06-May-20	11:04:24
6	200506R1_6	2000927-13RE2 PDI-152SC-A-10-11-200421 ...	06-May-20	11:51:37
7	200506R1_7	SOLVENT BLANK	06-May-20	12:38:23
8	200506R2_1	ST200506R2_1 1613 CS3 19L2305	06-May-20	13:35:58

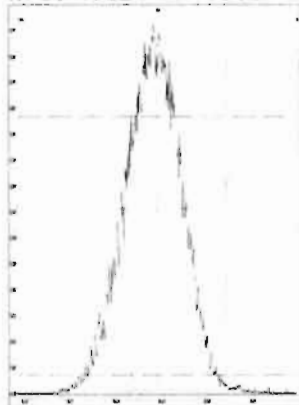
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:49:52 Pacific Daylight Time

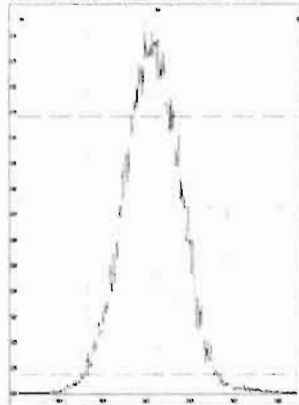
M 292.9824 R 11061



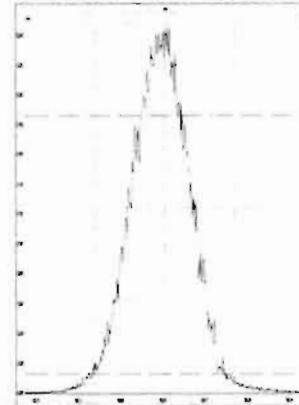
M 304.9824 R 11010



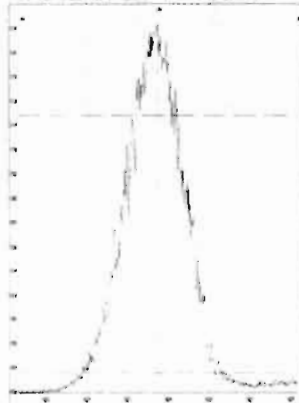
M 318.9792 R 10776



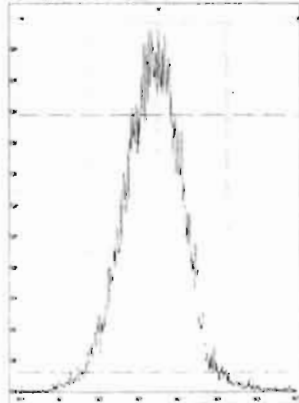
M 330.9792 R 10502



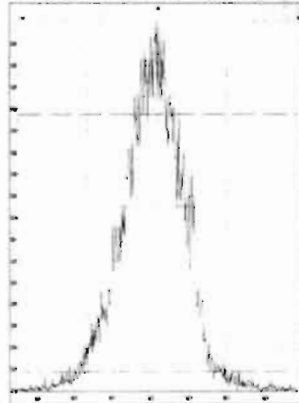
M 342.9792 R 10823



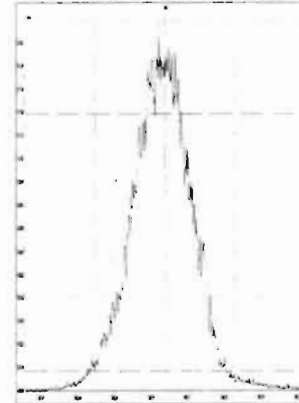
M 354.9792 R 10376



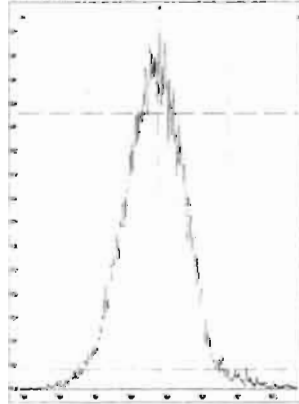
M 366.9792 R 10819



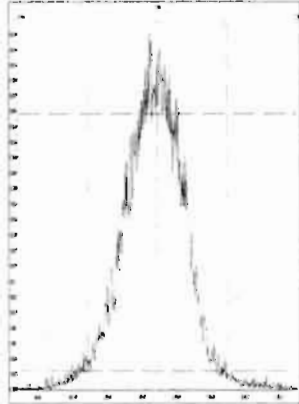
M 380.9760 R 10203



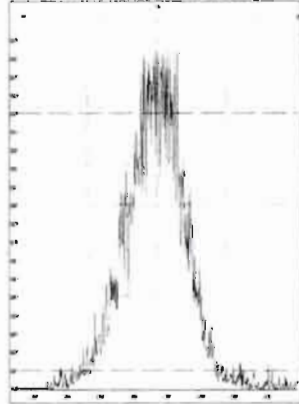
M 392.9760 R 10286



M 404.9760 R 10330



M 416.9760 R 11060

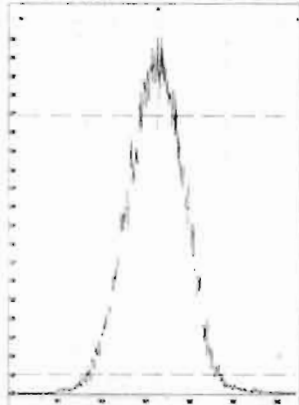




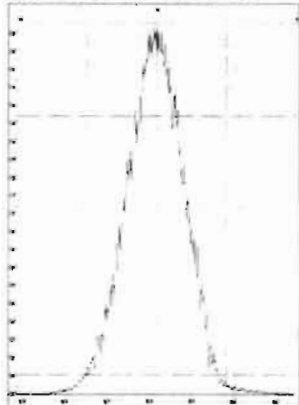
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:50:26 Pacific Daylight Time

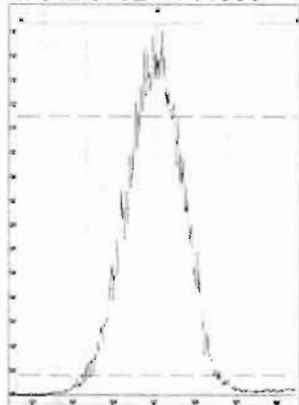
M 318.9792 R 11313



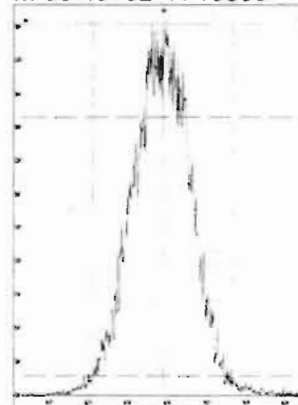
M 330.9792 R 10464



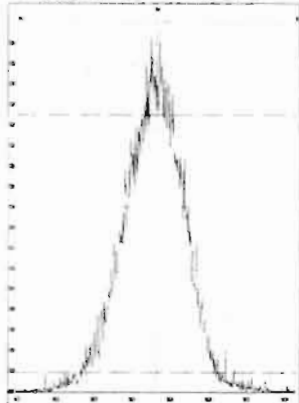
M 342.9792 R 11365



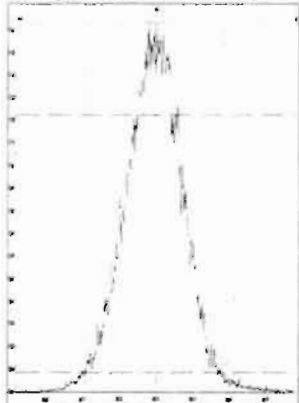
M 354.9792 R 10683



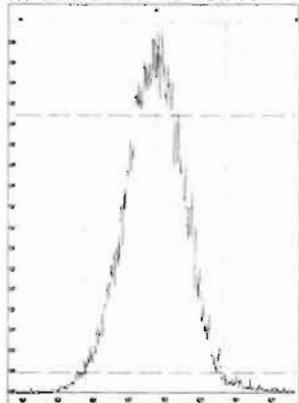
M 366.9792 R 10375



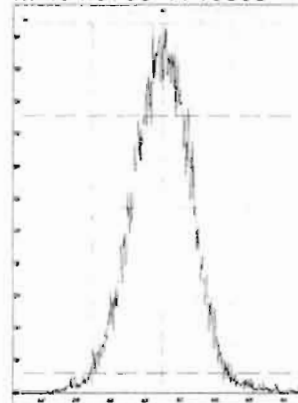
M 380.9760 R 10460



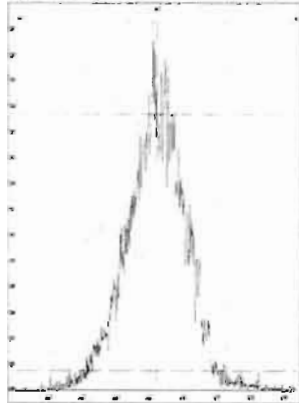
M 392.9760 R 10419



M 404.9760 R 10505



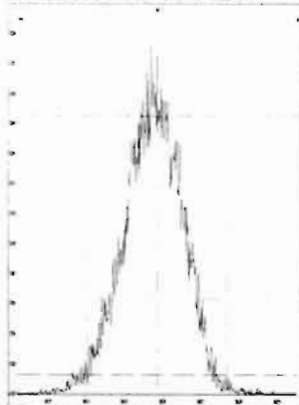
M 416.9760 R 11159



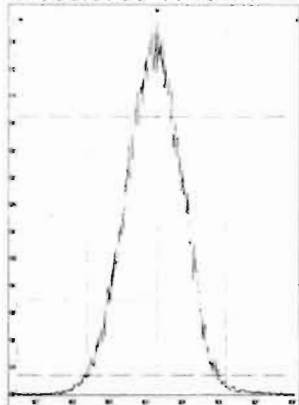
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:51:02 Pacific Daylight Time

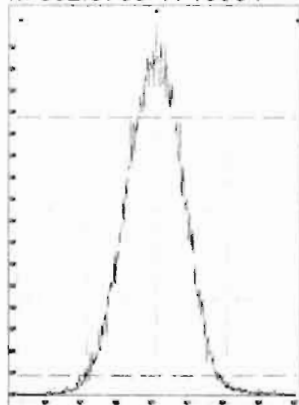
M 366.9792 R 11263



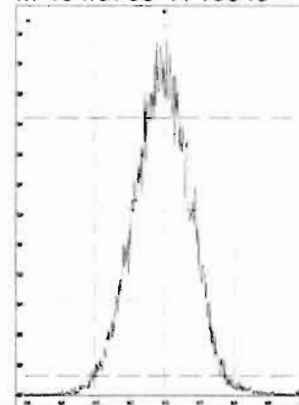
M 380.9760 R 10417



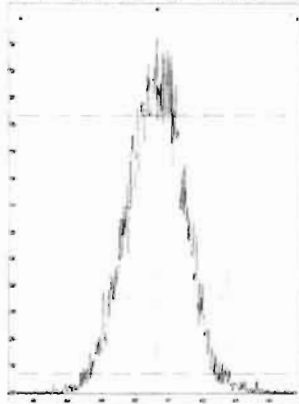
M 392.9760 R 10964



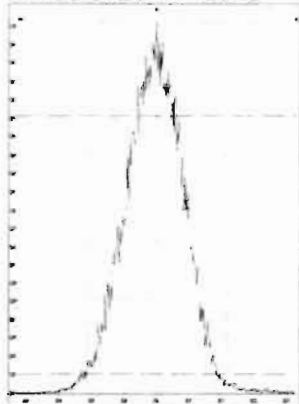
M 404.9760 R 10549



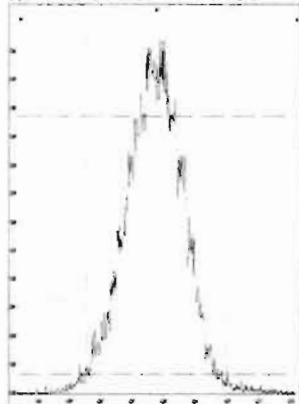
M 416.9760 R 11415



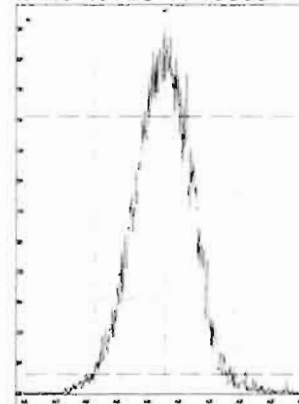
M 430.9728 R 10640



M 442.9728 R 11157



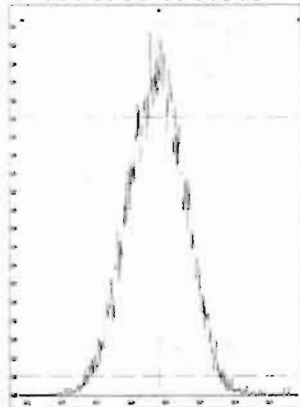
M 454.9728 R 10868



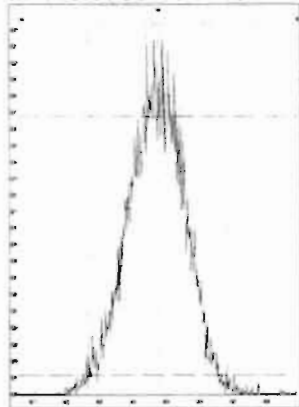
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:51:28 Pacific Daylight Time

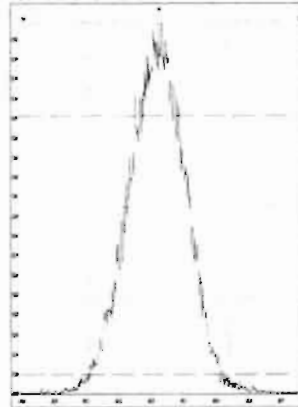
M 404.9760 R 11015



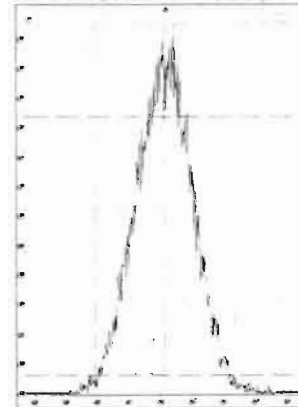
M 416.9760 R 11464



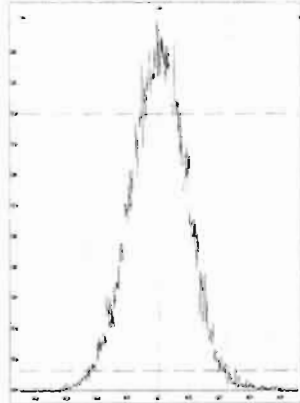
M 430.9728 R 10775



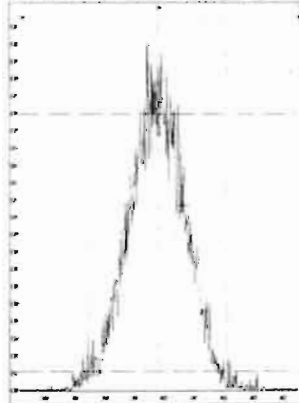
M 442.9728 R 10550



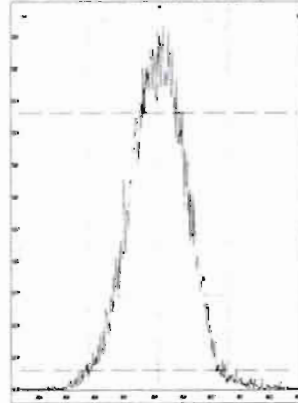
M 454.9728 R 11160



M 466.9728 R 10502



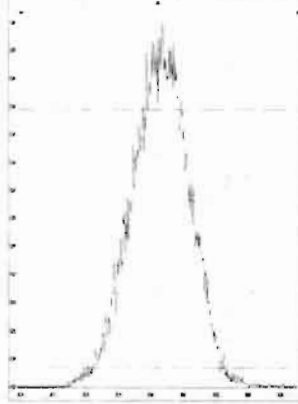
M 480.9696 R 11111



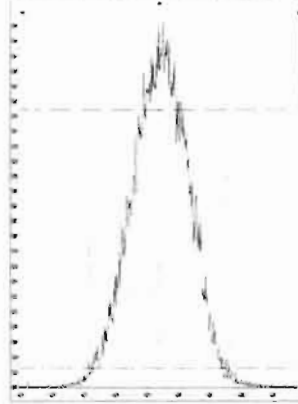
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:52:17 Pacific Daylight Time

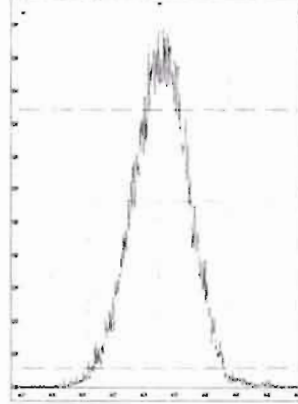
M 430.9728 R 11063



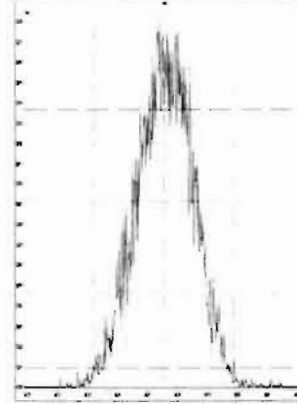
M 442.9728 R 10916



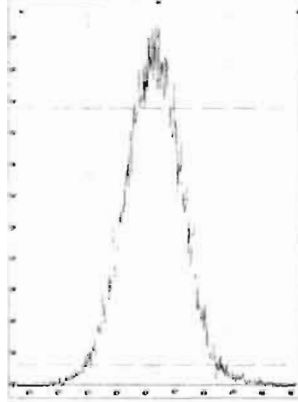
M 454.9728 R 10731



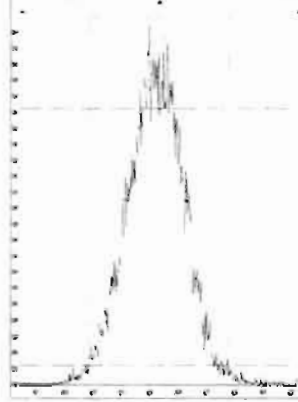
M 466.9728 R 11062



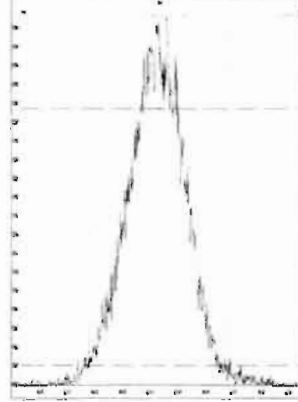
M 480.9696 R 10637



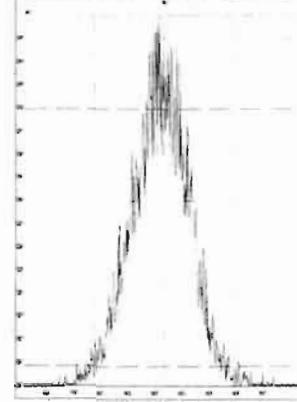
M 492.9696 R 10823



M 504.9696 R 11061



M 516.9697 R 11212



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-CPSM.qld

Last Altered: Wednesday, May 06, 2020 8:47:38 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 8:52:08 AM Pacific Daylight Time

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

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

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.77
2	1,2,8,9-TCDD (Last)	26.96
3	1,2,4,7,9-PeCDD (First)	28.81
4	1,2,3,8,9-PeCDD (Last)	31.46
5	1,2,4,6,7,9-HxCDD (First)	32.97
6	1,2,3,7,8,9-HxCDD (Last)	34.81
7	1,2,3,4,6,7,9-HpCDD (First)	37.28
8	1,2,3,4,6,7,8-HpCDD (Last)	38.31
9	1,3,6,8-TCDF (First)	19.73
10	1,2,8,9-TCDF (Last)	27.10
11	1,3,4,6,8-PeCDF (First)	27.08
12	1,2,3,8,9-PeCDF (Last)	31.69
13	1,2,3,4,6,8-HxCDF (First)	32.41
14	1,2,3,7,8,9-HxCDF (Last)	35.15
15	1,2,3,4,6,7,8-HpCDF (First)	36.89
16	1,2,3,4,7,8,9-HpCDF (Last)	38.90

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-CPSM.qld

Last Altered: Wednesday, May 06, 2020 8:47:38 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:52:08 AM Pacific Daylight Time

GRB 05/06/2020

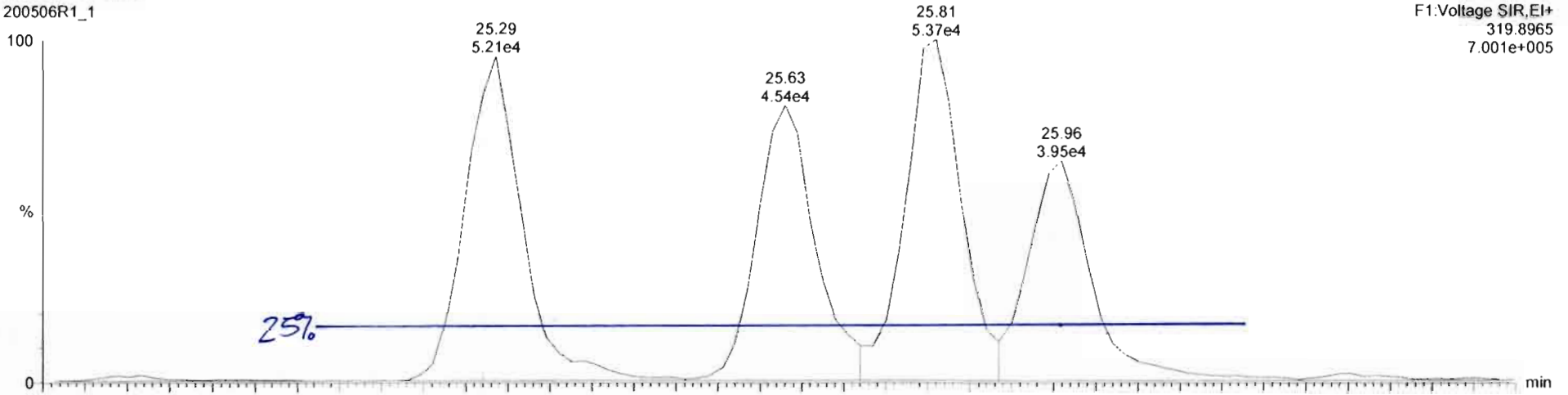
Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

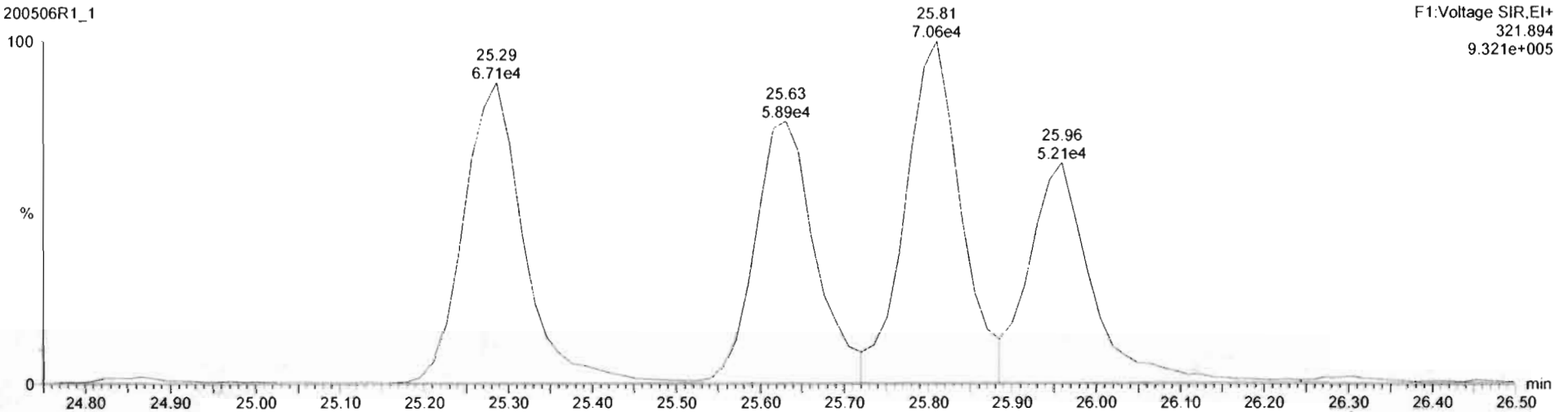
200506R1\_1

F1:Voltage SIR,EI+  
319.8965  
7.001e+005



200506R1\_1

F1:Voltage SIR,EI+  
321.894  
9.321e+005



Dataset: Untitled

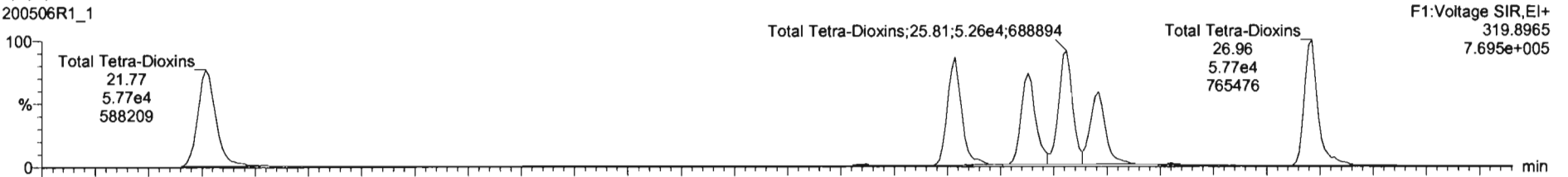
Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

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

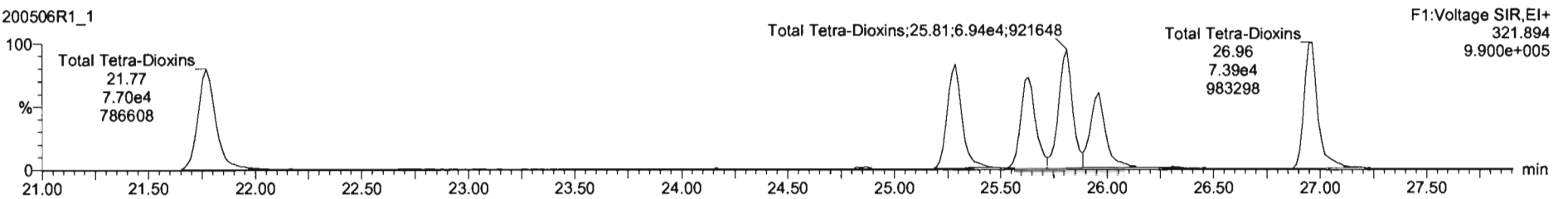
Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R1\_1

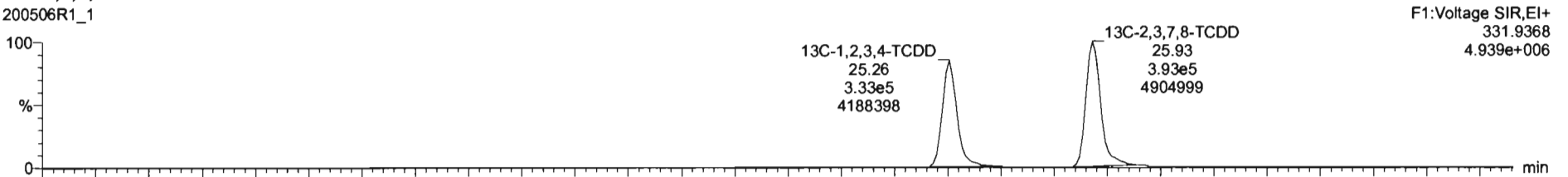


200506R1\_1

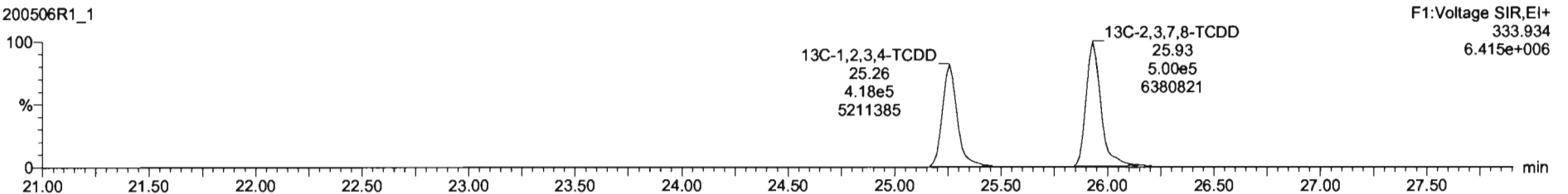


**13C-2,3,7,8-TCDD**

200506R1\_1



200506R1\_1



Dataset: Untitled

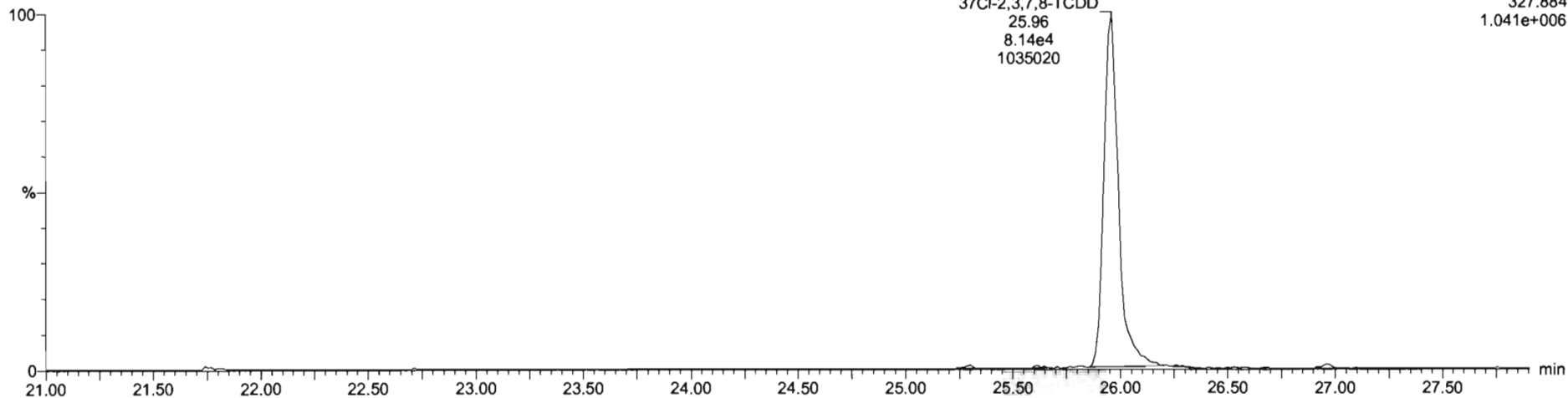
Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

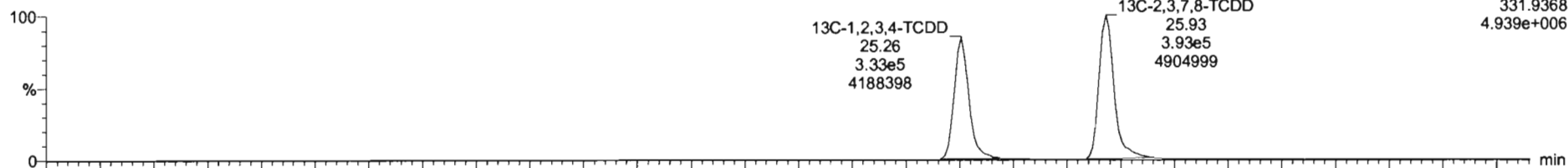
200506R1\_1



F1: Voltage SIR, EI+  
327.884  
1.041e+006

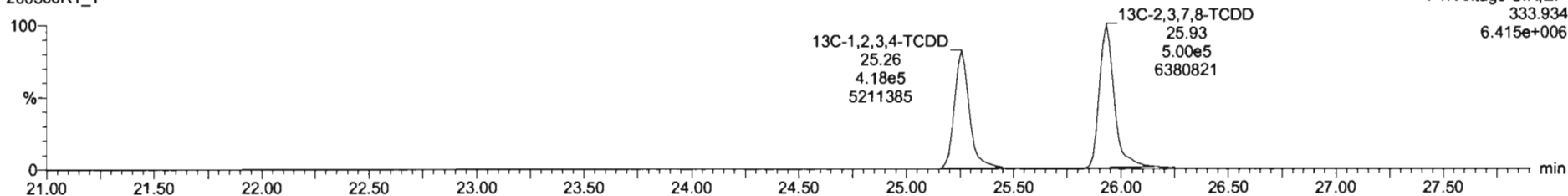
**13C-1,2,3,4-TCDD**

200506R1\_1



F1: Voltage SIR, EI+  
331.9368  
4.939e+006

200506R1\_1



F1: Voltage SIR, EI+  
333.934  
6.415e+006



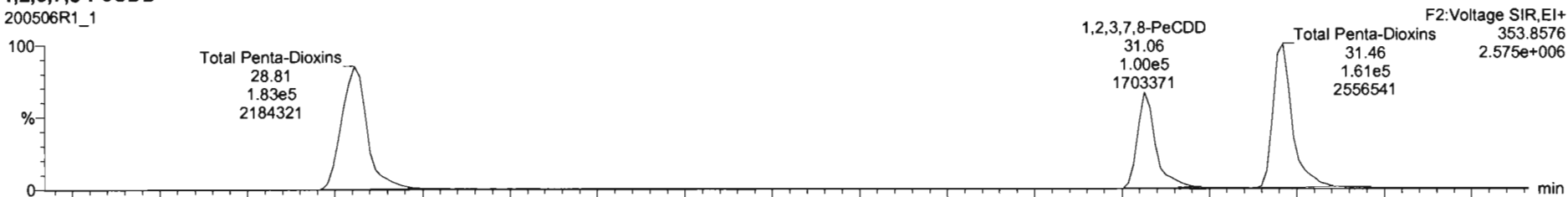
Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

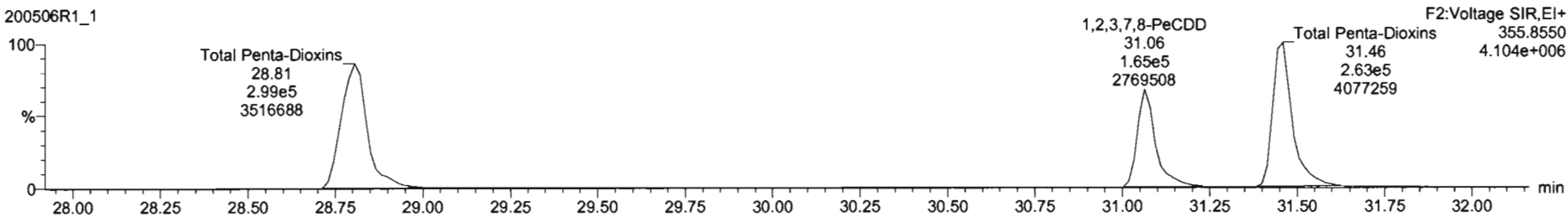
Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R1\_1

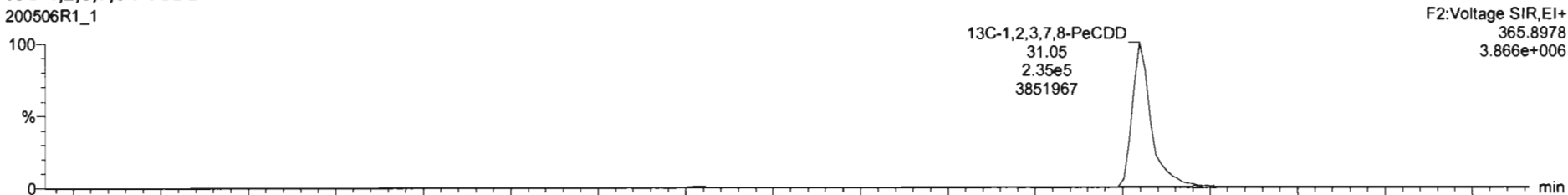


200506R1\_1

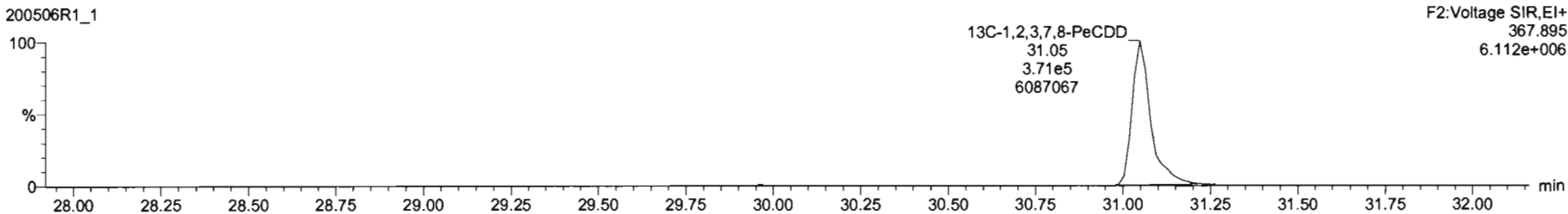


**13C-1,2,3,7,8-PeCDD**

200506R1\_1



200506R1\_1



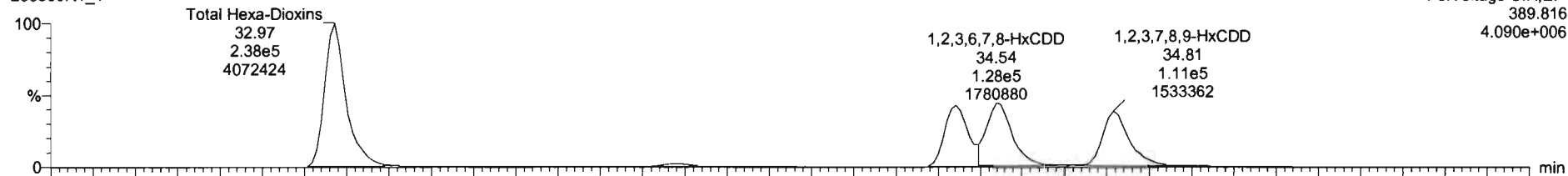
Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

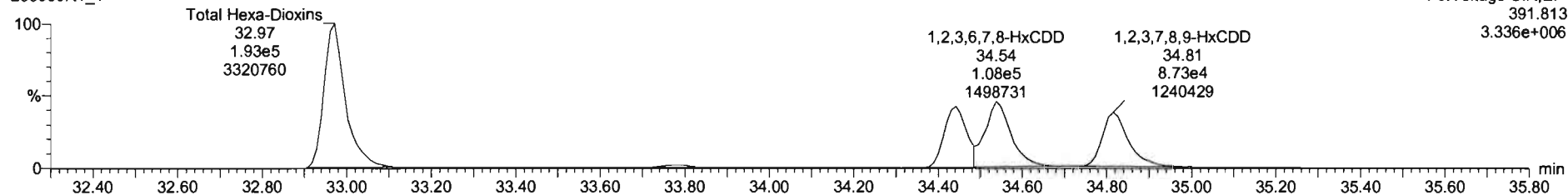
Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R1\_1

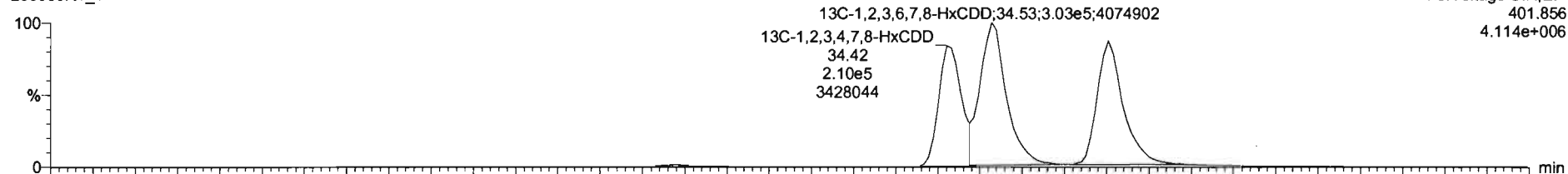


200506R1\_1

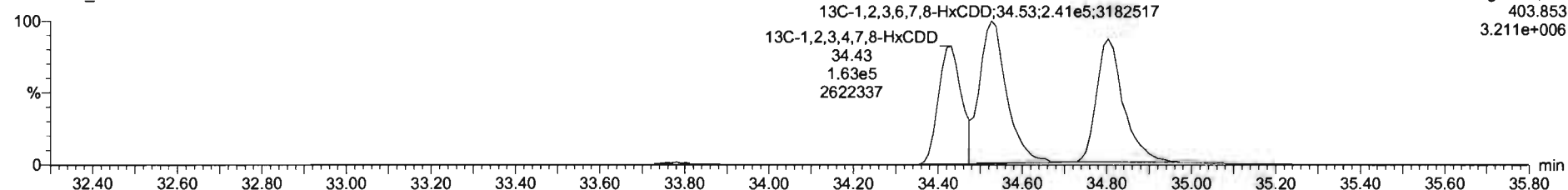


13C-1,2,3,4,7,8-HxCDD

200506R1\_1

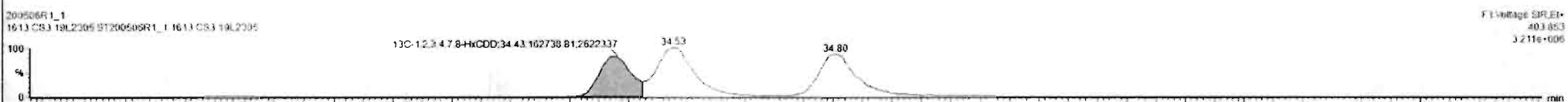
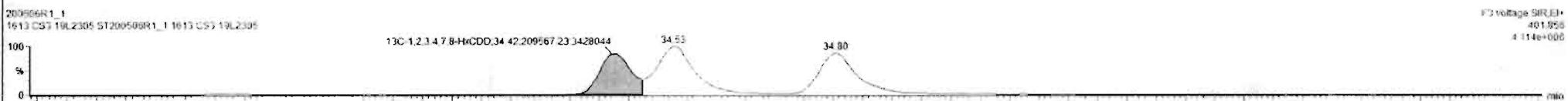
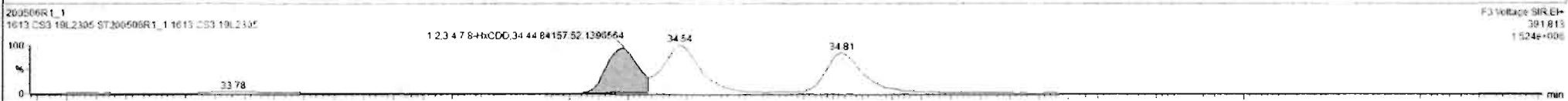
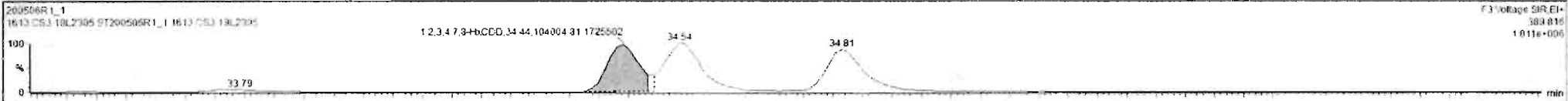


200506R1\_1

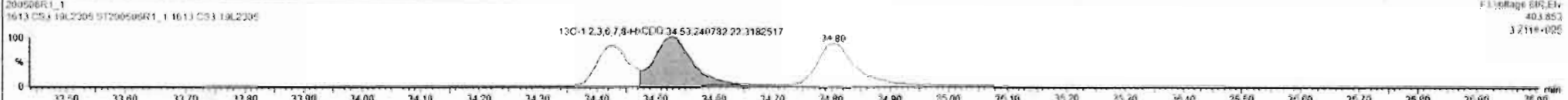
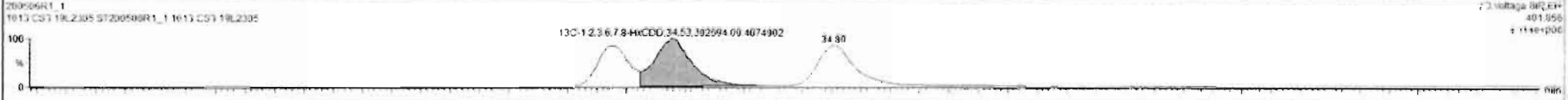
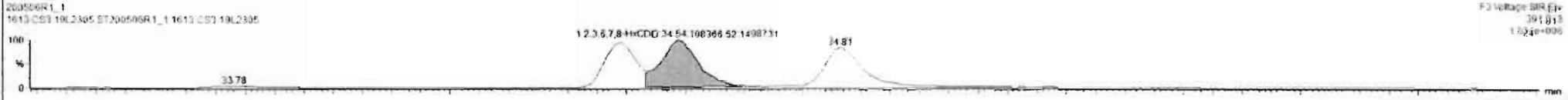
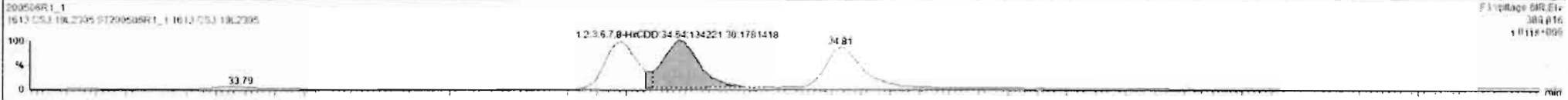


200506R1\_1 - ST200506R1\_1 1613 CS3 19L2305 - 1613 CS3 19L2305

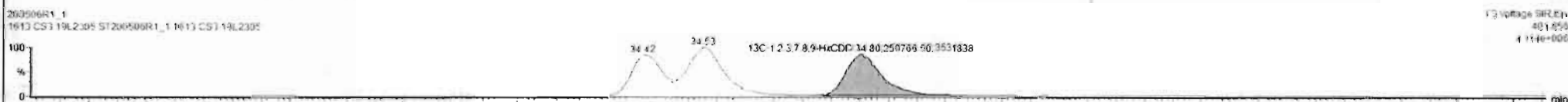
#	Name	Resp	S Resp	Pred RA	RA	ely	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1 2,3,7,8-TCDD	6.53e4	8.53e5	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	101	NO
2	2 1,2,3,7,8-PeCDD	2.85e5	6.05e5	0.83	0.81	NO	0.9425	31.07	31.06	NO	1.001	1.000	46.5	92.0	NO
3	3 1,2,3,4,7,8-HxCDD	1.88e5	3.72e5	1.24	1.24	NO	1.0041	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.45e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	48.8	97.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.56e5	4.52e5	1.24	1.24	NO	0.9145	34.81	34.81	NO	1.000	1.000	47.9	95.8	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.42e5	3.26e5	1.04	1.04	NO	0.8975	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	7 OCDD	2.44e5	5.25e5	0.85	0.82	NO	0.9335	41.30	41.31	NO	1.000	1.000	99.5	99.5	NO
8	8 2,3,7,8-TCDF	9.15e4	1.21e5	0.77	0.76	NO	0.7871	25.03	25.00	NO	1.001	1.001	9.63	96.3	NO
9	9 1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.55	1.52	NO	0.9182	29.78	29.75	NO	1.001	1.001	49.0	96.1	NO
10	10 2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.55	NO	0.9664	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.48e5	5.42e5	1.24	1.20	NO	0.8782	33.57	33.58	NO	1.000	1.000	52.1	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.05e5	6.84e5	1.24	1.22	NO	0.8740	33.70	33.70	NO	1.000	1.000	53.1	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.88e5	1.24	1.19	NO	0.9217	34.29	34.27	NO	1.001	1.000	52.0	104	NO
14	14 1,2,3,7,8,9-HxCDF	1.88e5	4.07e5	1.24	1.20	NO	0.8642	35.14	35.16	NO	1.000	1.000	53.8	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.0	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.96	NO	1.0115	38.88	38.90	NO	1.000	1.001	53.0	106	NO
17	17 OCDF	2.07e5	5.16e5	0.85	0.85	NO	0.8921	41.47	41.48	NO	1.000	1.000	103	103	NO
18	18 13C-2,3,7,8-TCDD	6.93e5	7.50e5	0.77	0.76	NO	1.1556	25.92	25.93	NO	1.026	1.027	103	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.05e5	7.50e5	0.83	0.83	NO	0.9472	30.99	31.05	NO	1.227	1.229	95.2	95.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.24	1.28	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



#	Name	Resp.	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Comp	%Rec	STD out
1	1 2,3,7,8-TCDD	6.63e4	8.93e5	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	103	NO
2	2 1,2,3,7,8-PeCDD	2.05e6	6.05e6	0.63	0.61	NO	0.9425	31.07	31.06	NO	1.001	1.000	46.6	93.0	NO
3	3 1,2,3,4,7,8-HxCDD	1.08e5	3.72e5	1.24	1.24	NO	1.0641	34.43	34.44	NO	1.000	1.001	47.6	96.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	40.8	97.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	1.27	NO	0.9149	34.81	34.81	NO	1.000	1.000	47.9	95.8	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.42e6	3.26e6	1.04	1.04	NO	0.8979	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	7 OCDD	2.44e5	5.25e5	0.89	0.92	NO	0.9335	41.30	41.31	NO	1.000	1.000	99.5	99.5	NO
8	8 2,3,7,8-TCDF	9.15e4	1.21e6	0.77	0.76	NO	0.7871	25.01	25.00	NO	1.001	1.001	9.63	96.3	NO
9	9 1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.55	1.62	NO	0.9102	29.76	29.75	NO	1.001	1.001	49.5	95.1	NO
10	10 2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.56	NO	0.9664	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.46e5	5.42e5	1.24	1.20	NO	0.8782	32.57	32.58	NO	1.000	1.000	52.1	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.09e5	6.64e5	1.24	1.22	NO	0.8740	32.70	32.70	NO	1.000	1.000	53.1	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.68e5	1.24	1.19	NO	0.9217	34.29	34.27	NO	1.001	1.000	52.0	104	NO
14	14 1,2,3,7,8,9-HxCDF	1.80e5	4.07e5	1.24	1.26	NO	0.9642	35.14	35.16	NO	1.000	1.000	53.6	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.3	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.96	NO	1.0116	36.82	36.90	NO	1.000	1.001	53.2	106	NO
17	17 OCDF	2.37e5	5.78e5	0.89	0.89	NO	0.8021	41.47	41.48	NO	1.000	1.000	103	103	NO
18	18 13C-2,3,7,8-TCDD	6.93e5	7.50e5	0.77	0.75	NO	1.1596	25.92	25.92	NO	1.026	1.027	103	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.05e5	7.50e5	0.63	0.63	NO	0.9472	30.99	31.05	NO	1.227	1.229	95.2	96.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.43e5	6.37e5	1.24	1.26	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



#	Name	Resp	S Resp	Pred RA	RA	ely	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	8.53e4	8.53e4	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	101	NO
2	1,2,3,7,8-PeCDD	3.85e6	6.95e6	0.63	0.61	NO	0.9428	31.07	31.06	NO	1.001	1.000	46.5	93.0	NO
3	1,2,3,4,7,8-HxCDD	1.66e5	3.72e5	1.24	1.24	NO	1.0541	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	48.8	97.6	NO
5	1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	1.24	NO	0.9149	34.61	34.63	NO	1.000	1.000	47.3	94.8	NO
6	1,2,3,4,6,7,8-HpCDD	1.42e5	2.26e5	1.04	1.04	NO	0.9979	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	OCDD	2.44e5	5.25e5	0.89	0.92	NO	0.9335	41.30	41.31	NO	1.000	1.000	99.5	99.5	NO
8	2,3,7,8-TCDF	9.15e4	1.21e6	0.77	0.76	NO	0.7871	25.01	25.00	NO	1.001	1.001	9.63	96.3	NO
9	1,2,3,7,8-PeCDF	4.15e5	9.22e5	1.55	1.62	NO	0.9162	29.78	29.75	NO	1.001	1.001	49.5	99.1	NO
10	1,2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.58	NO	0.9964	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	1,2,3,4,7,8-HxCDF	2.46e5	5.42e5	1.24	1.20	NO	0.8782	33.57	33.58	NO	1.000	1.000	52.1	104	NO
12	1,2,3,6,7,8-HxCDF	3.08e5	6.84e5	1.24	1.22	NO	0.8740	33.70	33.70	NO	1.000	1.000	53.1	106	NO
13	2,3,4,6,7,8-HxCDF	2.72e5	5.68e5	1.24	1.19	NO	0.9217	34.29	34.27	NO	1.001	1.000	52.0	104	NO
14	1,2,3,7,8,9-HxCDF	1.88e5	4.07e5	1.24	1.26	NO	0.8642	35.14	35.16	NO	1.000	1.000	53.0	107	NO
15	1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.3	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.98	NO	1.0118	38.86	38.90	NO	1.000	1.001	53.2	106	NO
17	OCDF	2.37e5	5.76e5	0.89	0.89	NO	0.8021	41.47	41.48	NO	1.000	1.000	103	103	NO
18	13C-2,3,7,8-TCDD	8.93e5	7.58e5	0.77	0.78	NO	1.1595	25.92	25.93	NO	1.026	1.027	103	103	NO
19	13C-1,2,3,7,8-PeCDD	8.05e5	7.58e5	0.63	0.63	NO	0.9472	30.59	31.05	NO	1.227	1.229	95.2	95.2	NO
20	13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.24	1.28	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



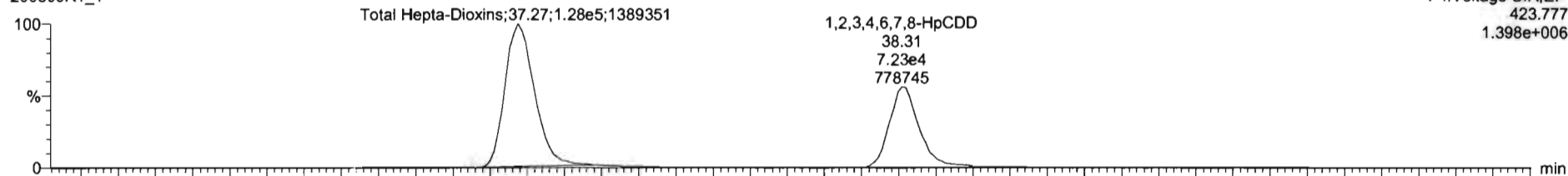
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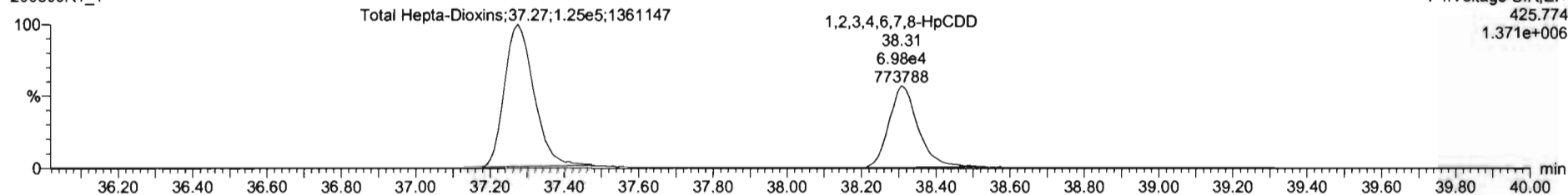
Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R1\_1

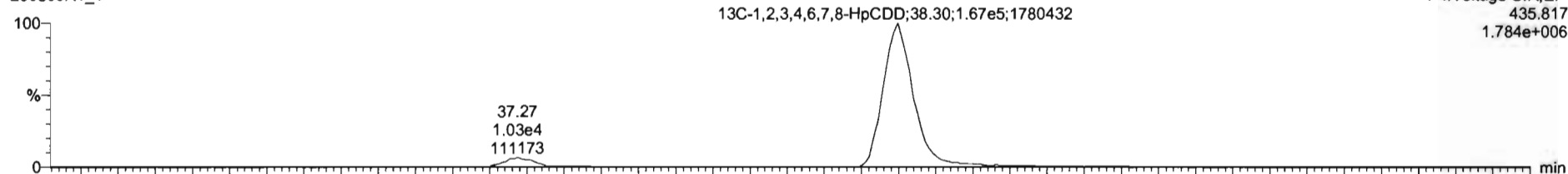


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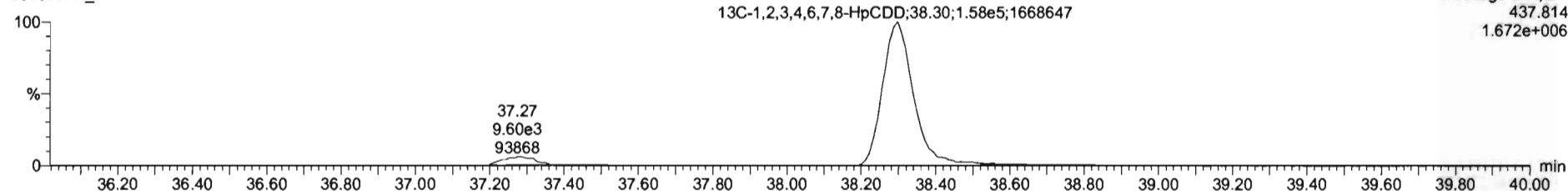


13C-1,2,3,4,6,7,8-HpCDD

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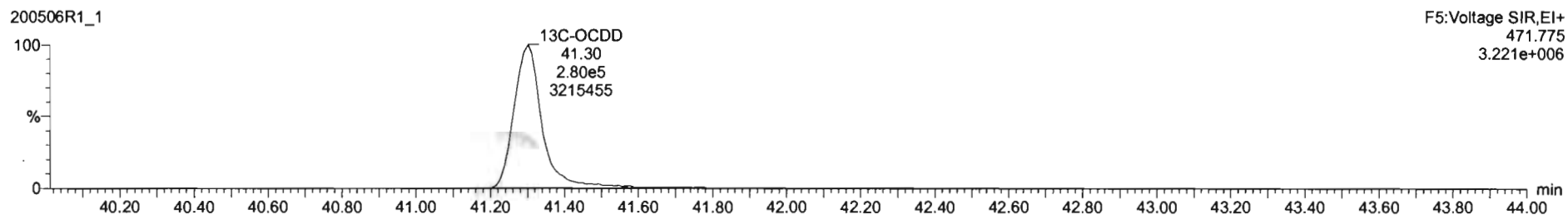
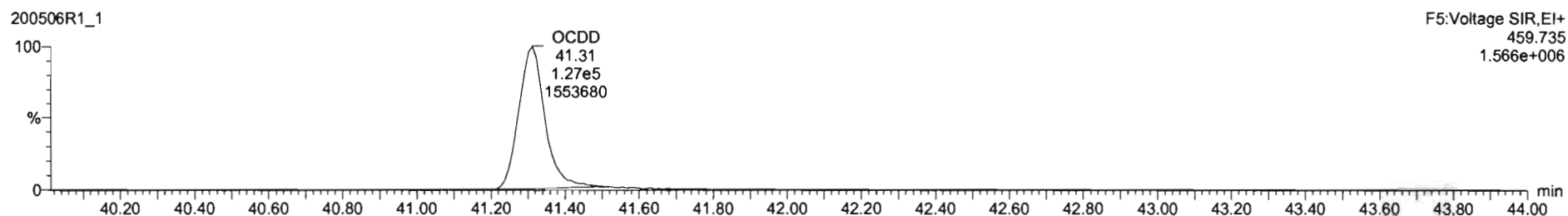
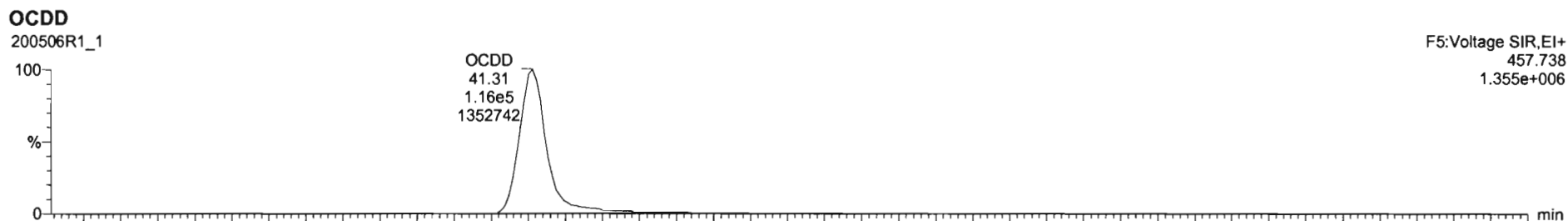
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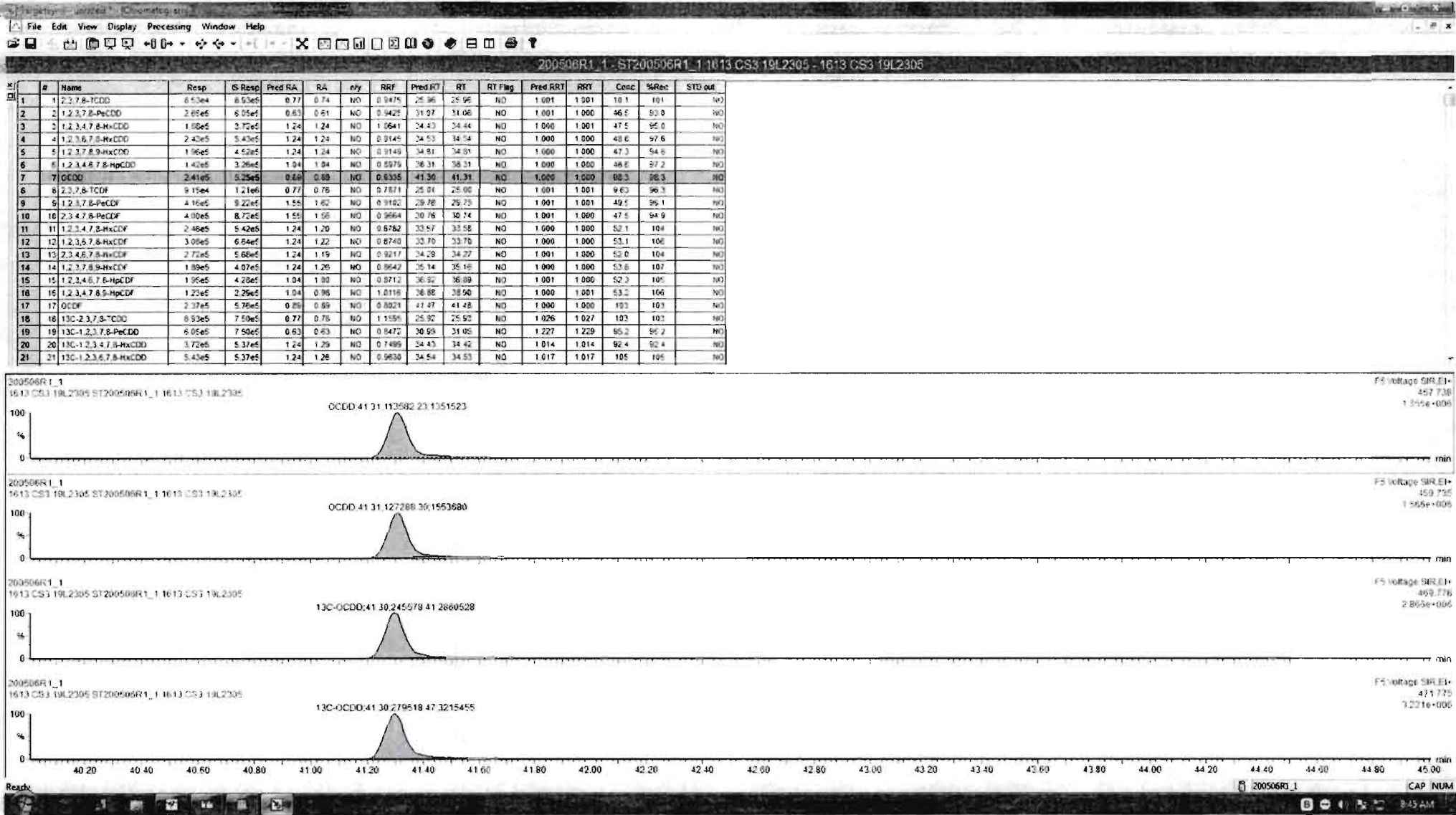


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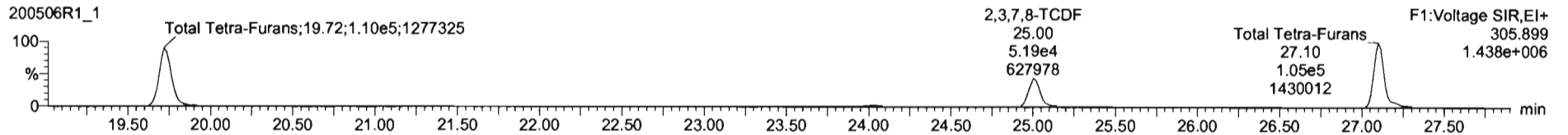
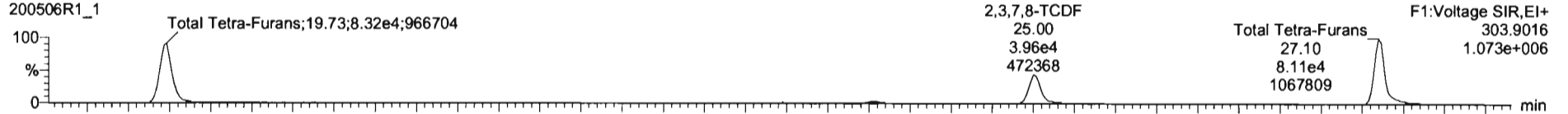


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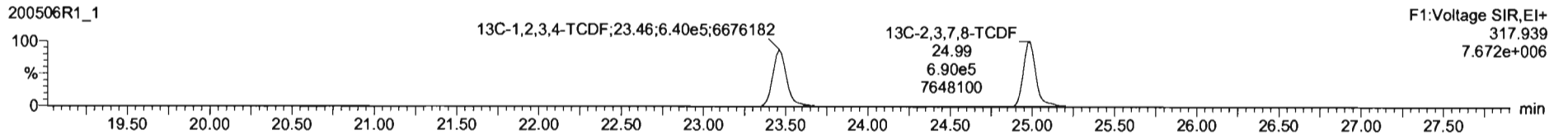
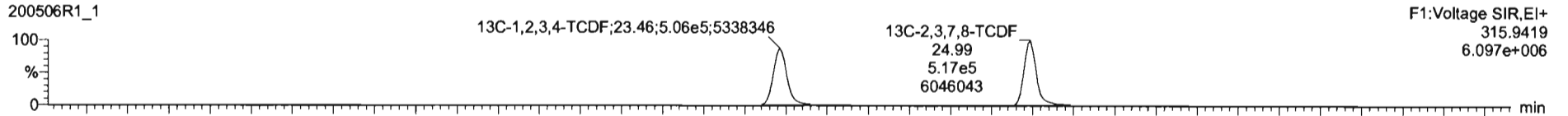
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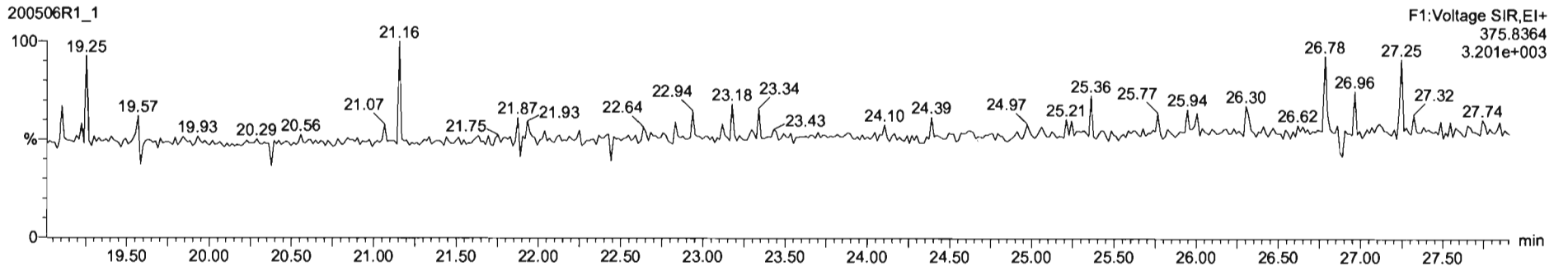
**2,3,7,8-TCDF**



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



**DPE1**



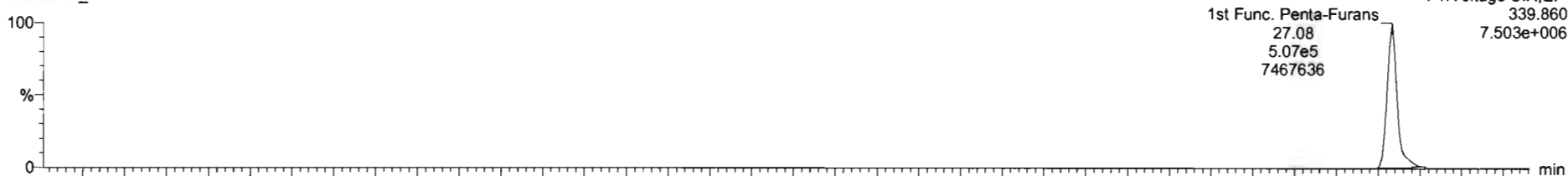
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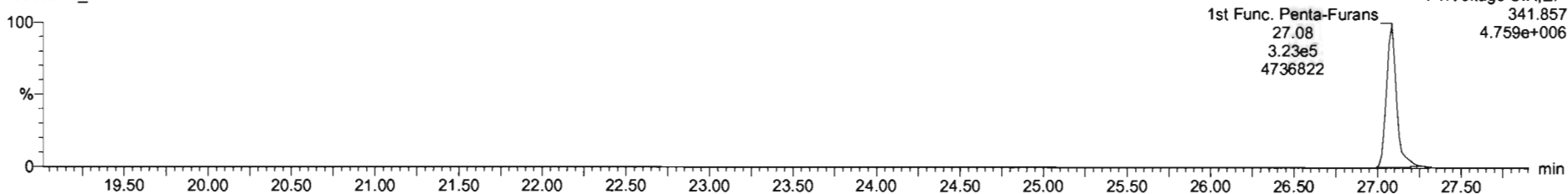
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200506R1\_1

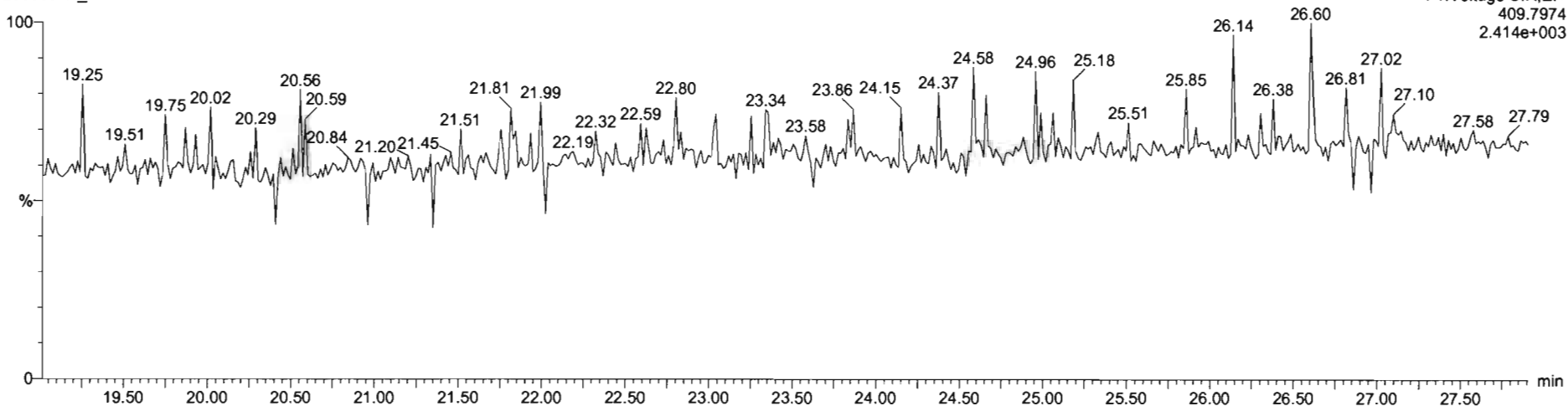


200506R1\_1



DPE6

200506R1\_1



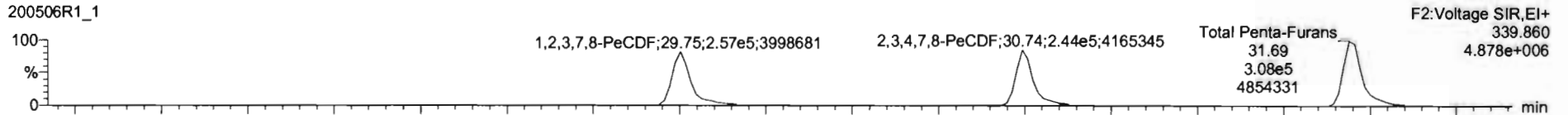
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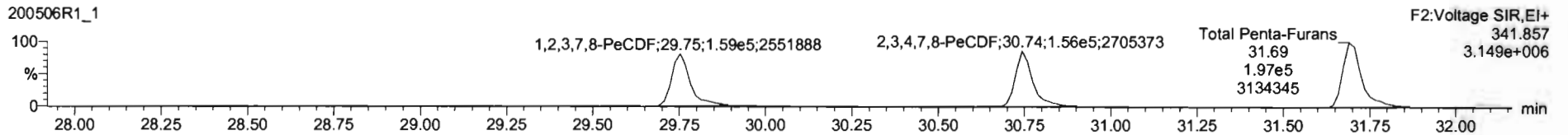
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**1,2,3,7,8-PeCDF**

200506R1\_1

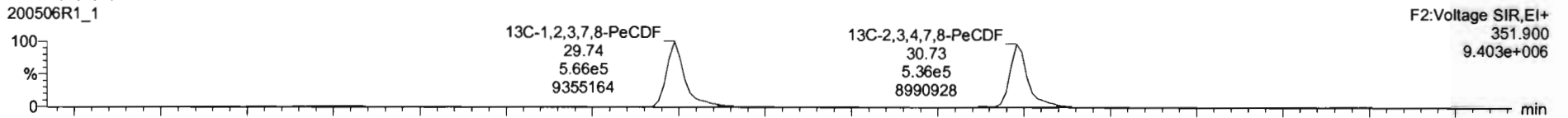


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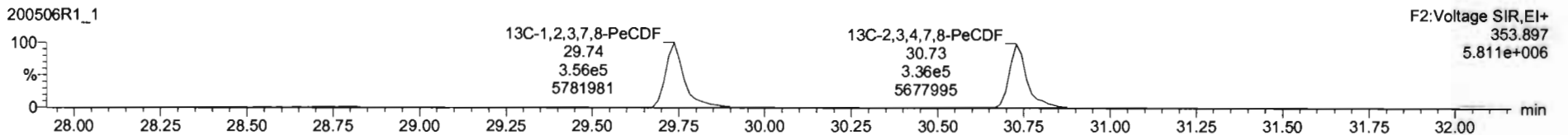


**13C-1,2,3,7,8-PeCDF**

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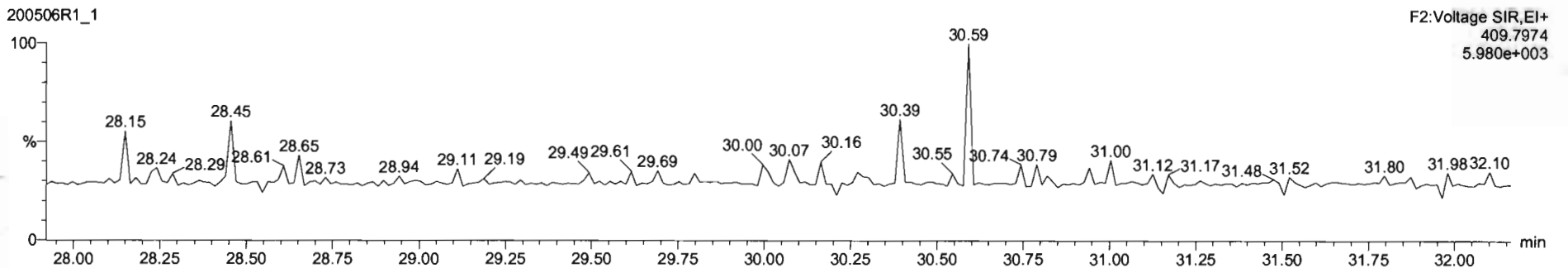


200506R1\_1



**DPE2**

200506R1\_1

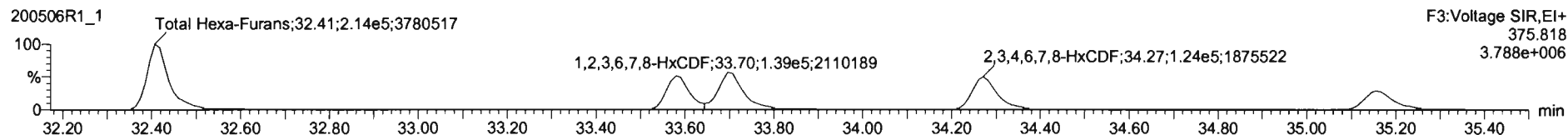
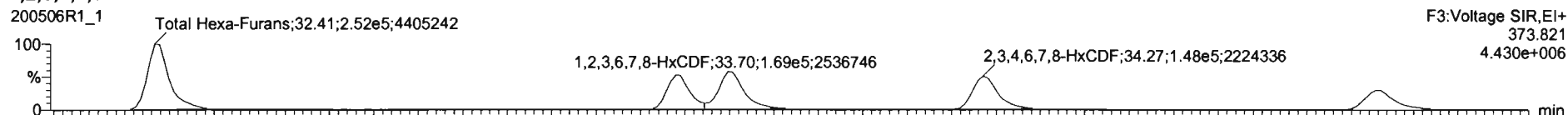


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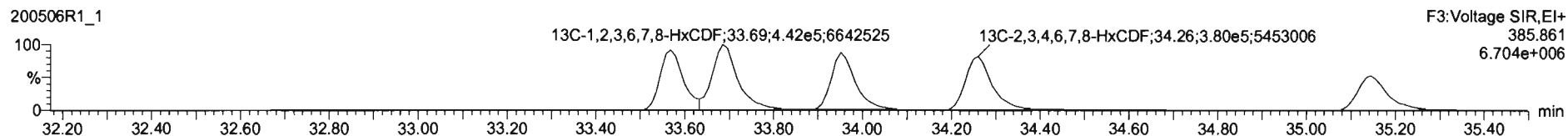
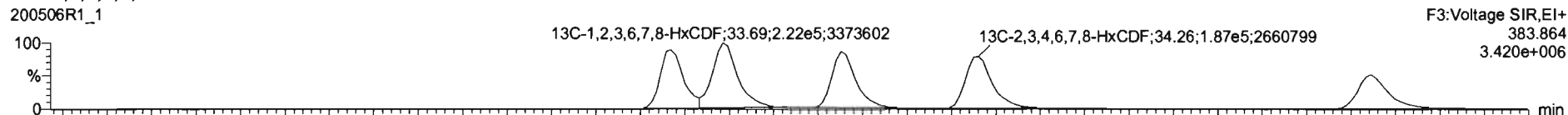
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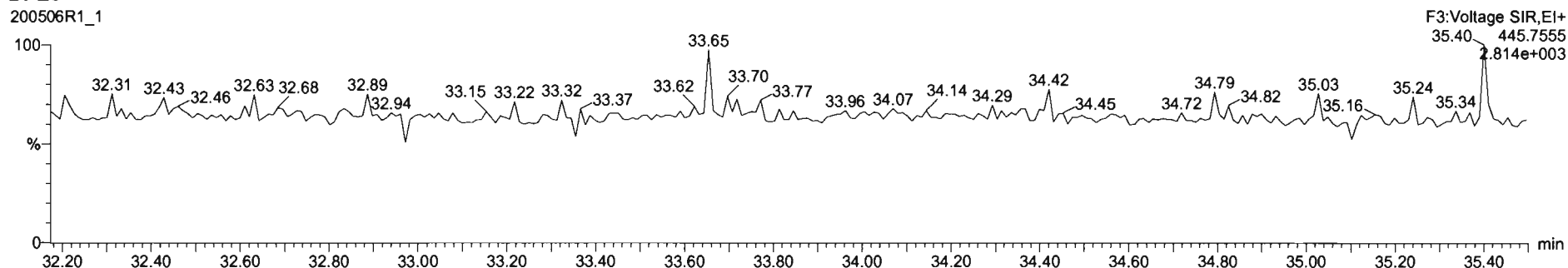
**1,2,3,4,7,8-HxCDF**



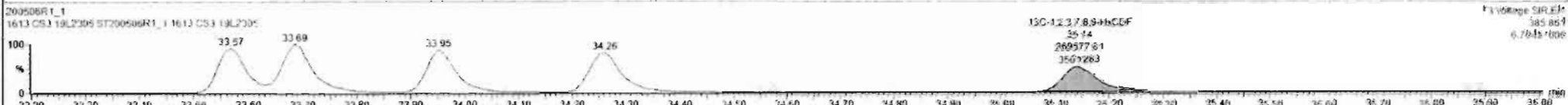
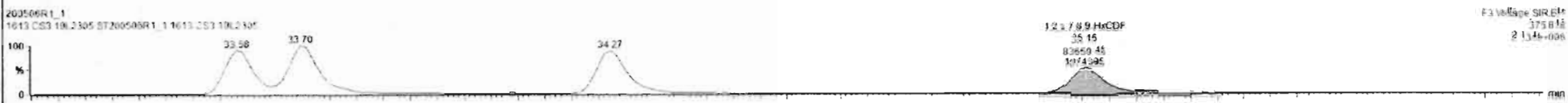
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



#	Name	Resp	S 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	8.53e4	8.53e5	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	101	NO
2	1,2,3,7,8-PeCDD	2.85e5	6.95e5	0.63	0.61	NO	0.9425	31.07	31.06	NO	1.001	1.000	46.5	93.0	NO
3	1,2,3,4,7,8-HxCDD	1.86e5	3.72e5	1.24	1.24	NO	1.0641	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	48.6	97.6	NO
5	1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	1.24	NO	0.9149	34.81	34.81	NO	1.000	1.000	47.3	94.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.42e5	3.26e5	1.04	1.04	NO	0.9979	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	OCDD	2.41e5	5.25e5	0.89	0.89	NO	0.9335	41.30	41.31	NO	1.000	1.000	98.3	96.3	NO
8	2,3,7,8-TCDF	9.15e4	1.21e5	0.77	0.76	NO	0.7371	25.01	25.00	NO	1.001	1.001	9.83	96.3	NO
9	1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.55	1.42	NO	0.9102	29.78	29.75	NO	1.001	1.001	49.5	95.1	NO
10	2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.56	NO	0.9964	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	1,2,3,4,7,8-HxCDF	2.46e5	5.42e5	1.24	1.20	NO	0.9782	33.57	33.58	NO	1.000	1.000	52.1	104	NO
12	1,2,3,6,7,8-HxCDF	3.06e5	6.84e5	1.24	1.22	NO	0.8740	33.70	33.70	NO	1.000	1.000	53.1	106	NO
13	1,2,3,4,6,7,8-HpCDF	2.72e5	5.68e5	1.24	1.19	NO	0.9217	34.79	34.77	NO	1.001	1.000	52.0	104	NO
14	1,2,3,7,8,9-HxCDF	1.87e5	4.07e5	1.24	1.23	NO	0.8642	35.14	35.15	NO	1.000	1.000	53.0	106	NO
15	1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.3	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.96	NO	1.0116	38.80	38.90	NO	1.000	1.001	53.2	106	NO
17	OCDF	2.37e5	5.78e5	0.89	0.89	NO	0.8821	41.47	41.48	NO	1.000	1.000	103	103	NO
18	13C-2,3,7,8-TCDD	8.93e5	7.50e5	0.77	0.76	NO	1.1555	25.92	25.93	NO	1.026	1.027	103	103	NO
19	13C-1,2,3,7,8-PeCDD	5.05e5	7.50e5	0.63	0.63	NO	0.8472	30.59	31.05	NO	1.227	1.229	95.2	95.2	NO
20	13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.24	1.26	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



Ready

200506R1\_1 CAP NUKA

8:46 AM

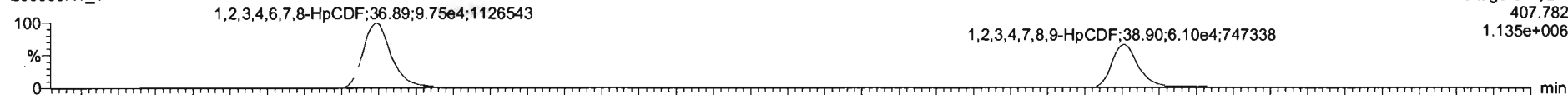
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Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

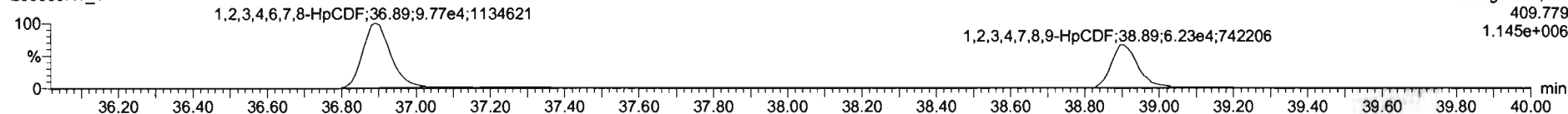
Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R1\_1

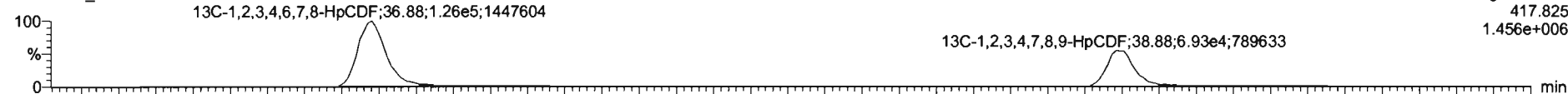


200506R1\_1

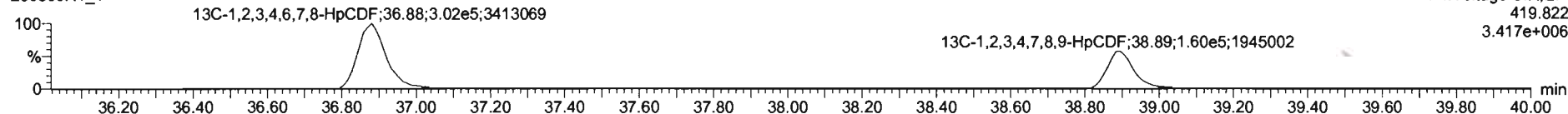


**13C-1,2,3,4,6,7,8-HpCDF**

200506R1\_1

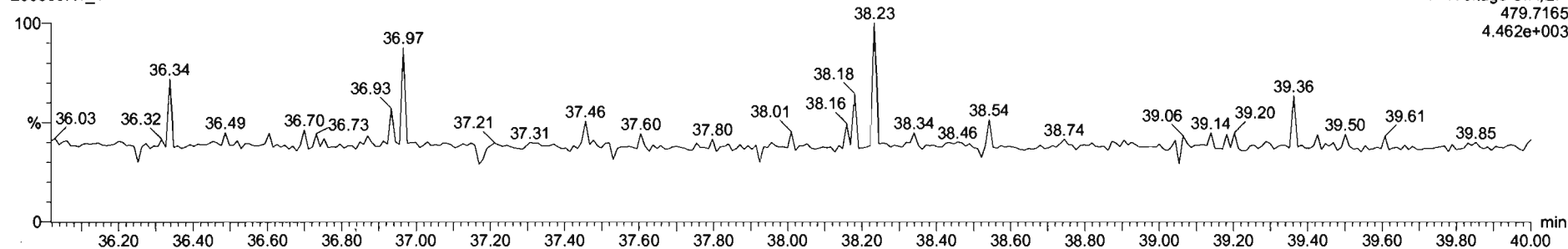


200506R1\_1



**DPE4**

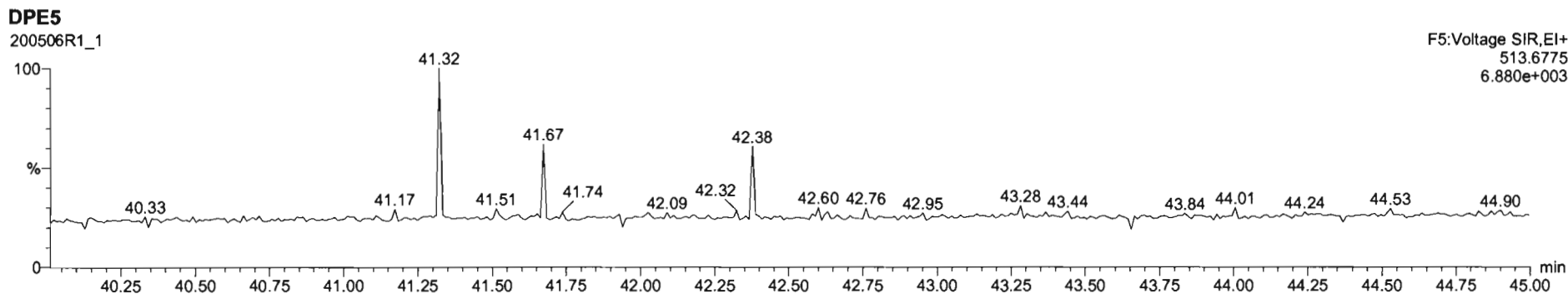
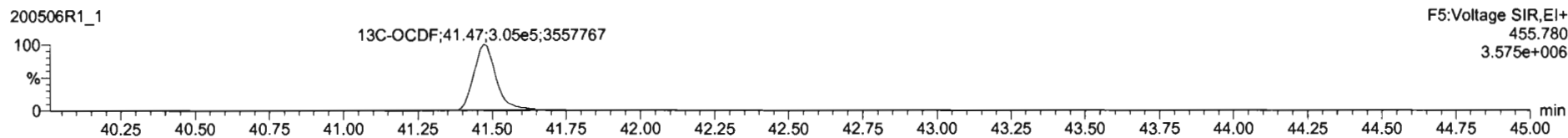
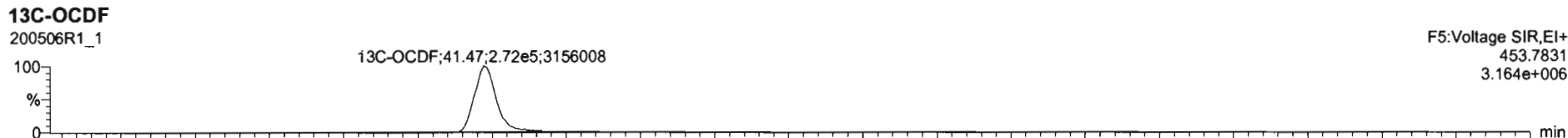
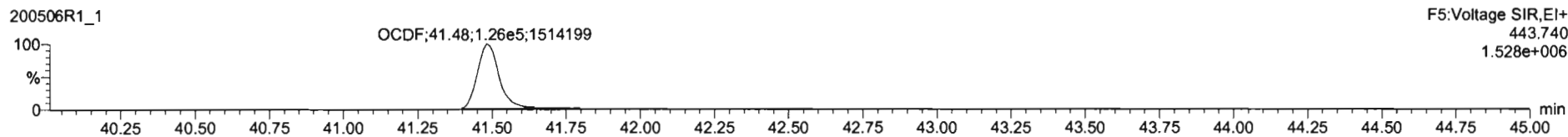
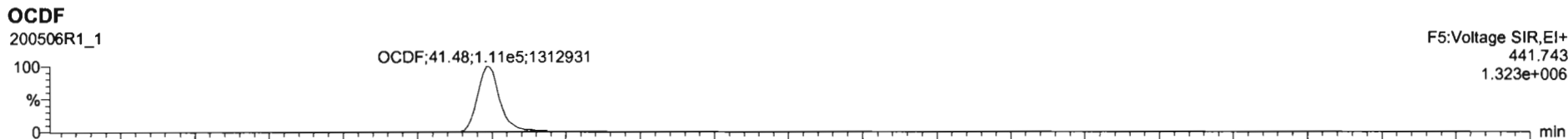
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Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

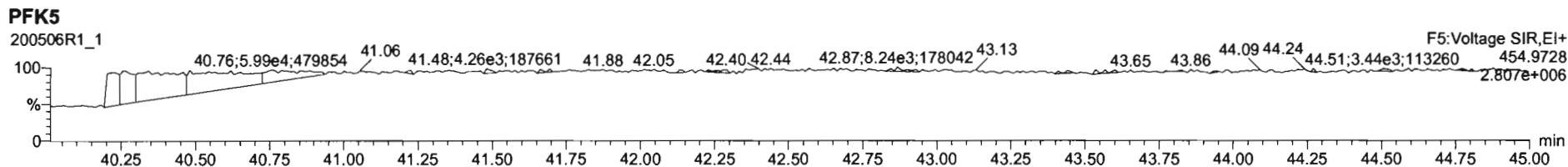
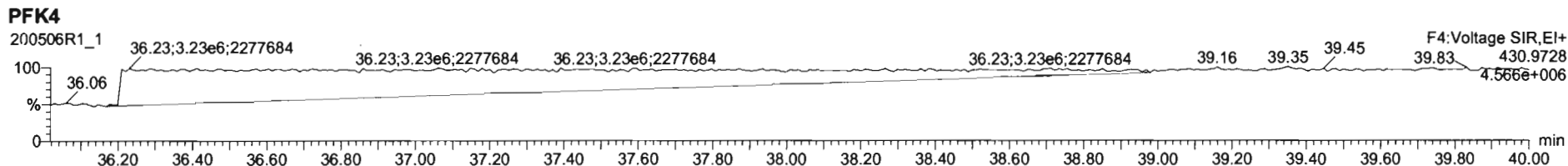
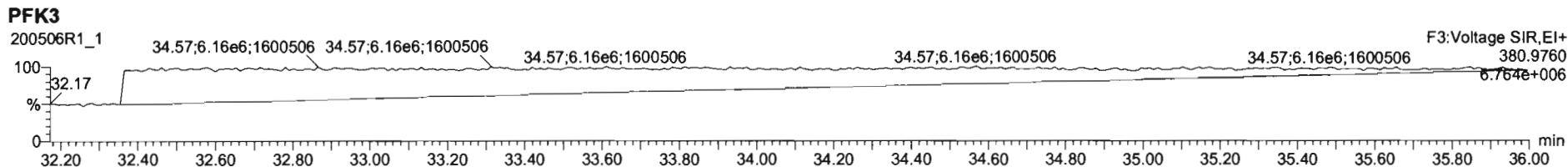
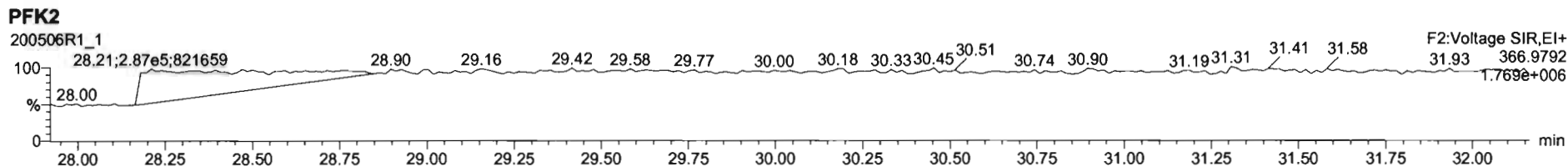
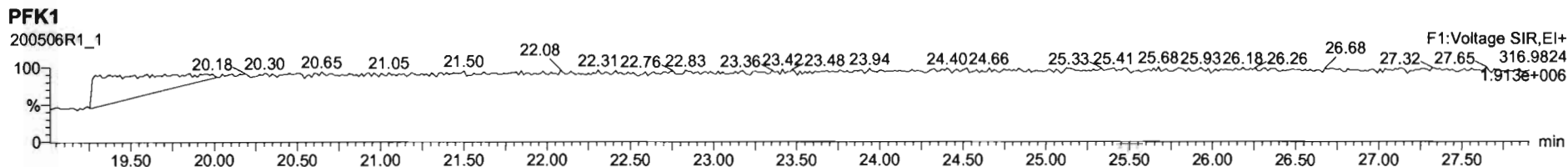
Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time  
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

Name: 200506R1\_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

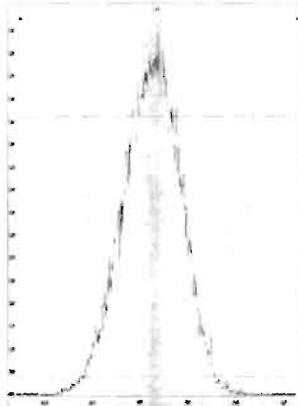




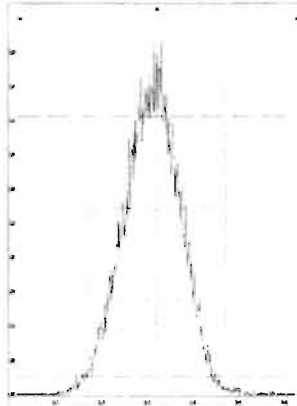
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Printed: Wednesday, May 06, 2020 13:32:16 Pacific Daylight Time

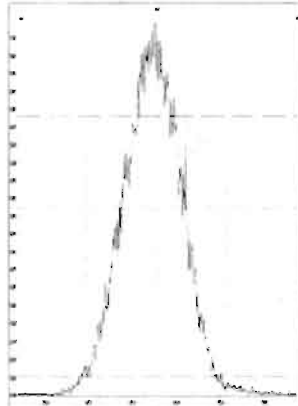
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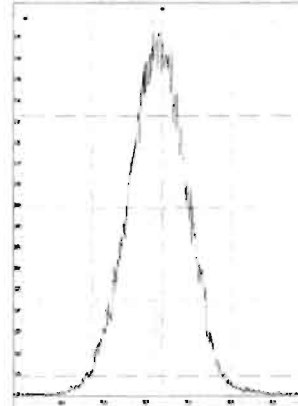
M 304.9824 R 11108



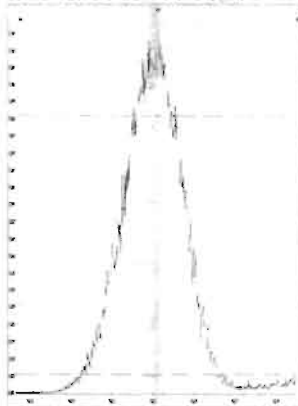
M 318.9792 R 11111



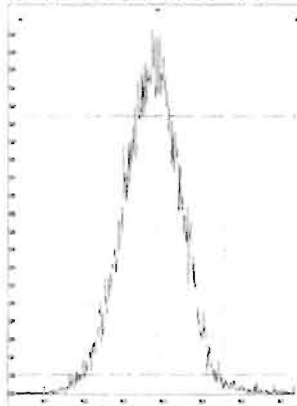
M 330.9792 R 10546



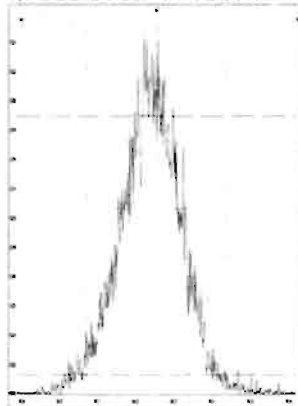
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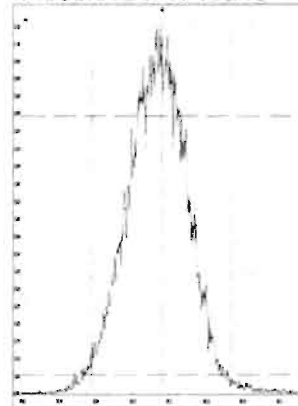
M 354.9792 R 11414



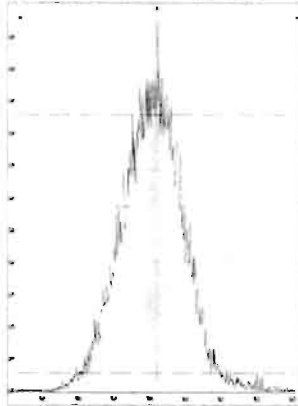
M 366.9792 R 10871



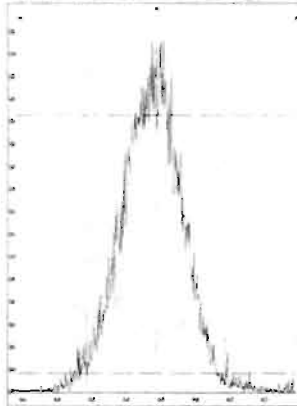
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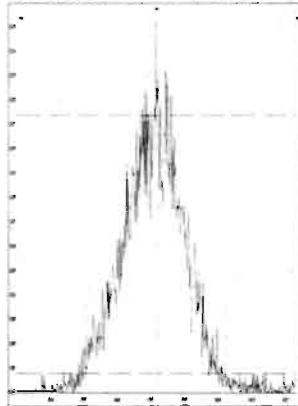
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M 404.9760 R 10822



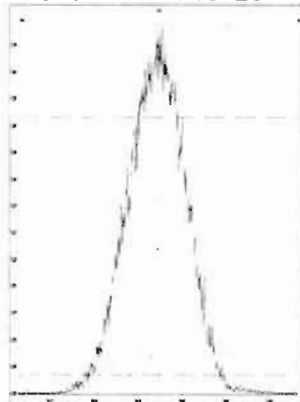
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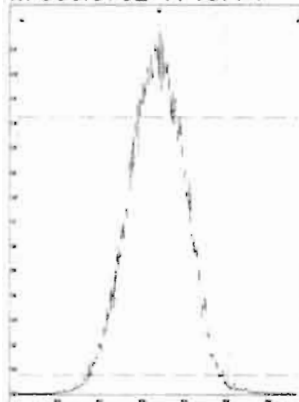
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 13:32:41 Pacific Daylight Time

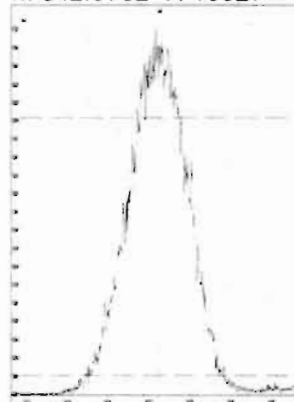
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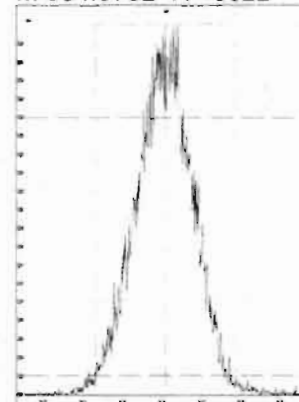
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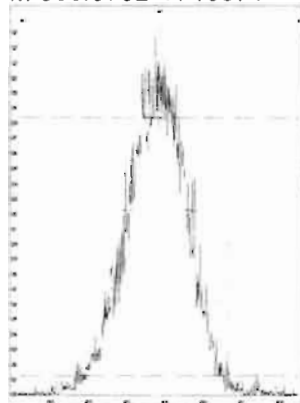
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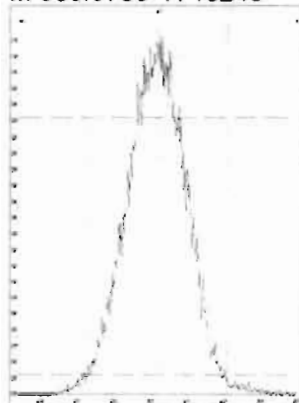
M 354.9792 R 10822



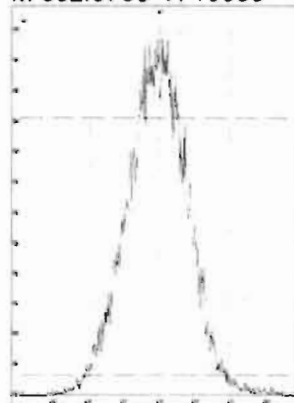
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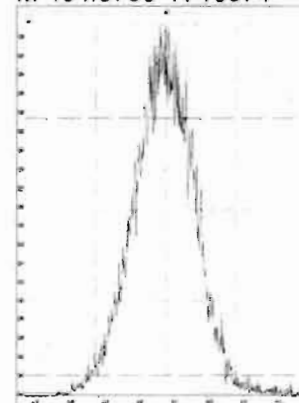
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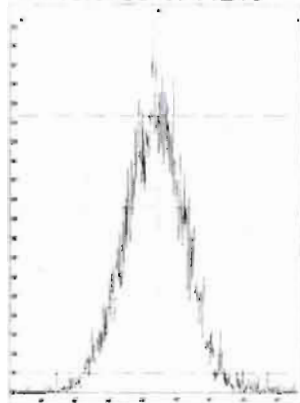
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M 404.9760 R 10374



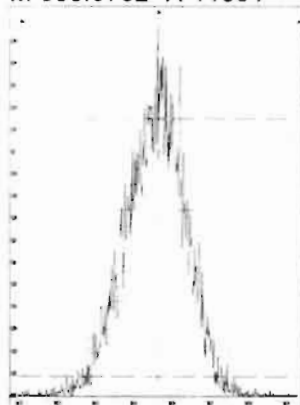
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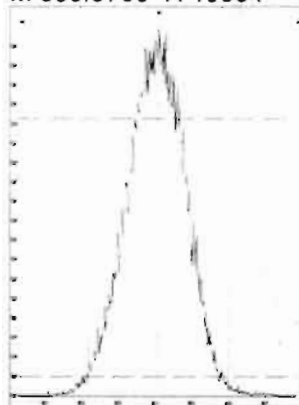
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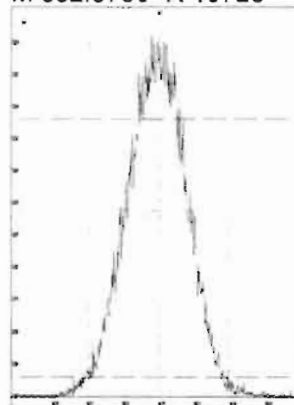
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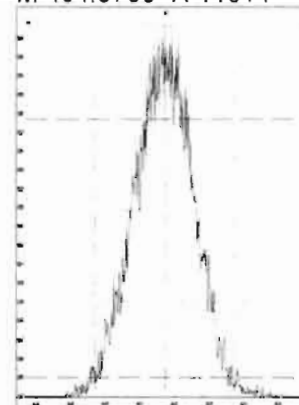
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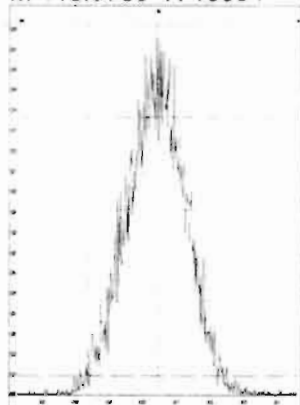
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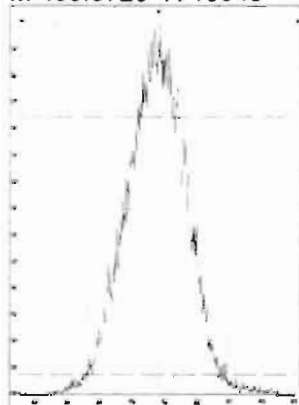
M 404.9760 R 11014



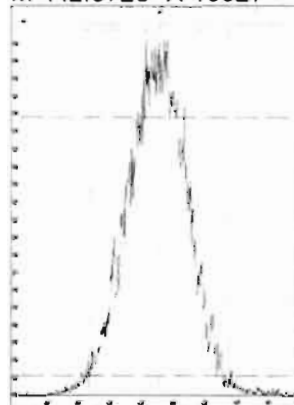
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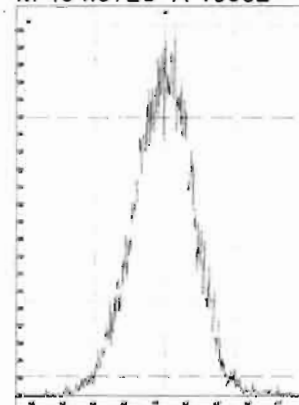
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M 442.9728 R 10327



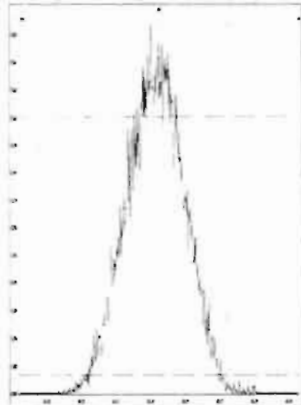
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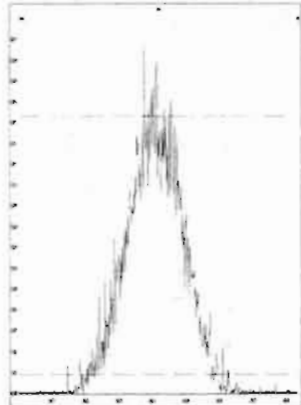
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Printed: Wednesday, May 06, 2020 13:33:38 Pacific Daylight Time

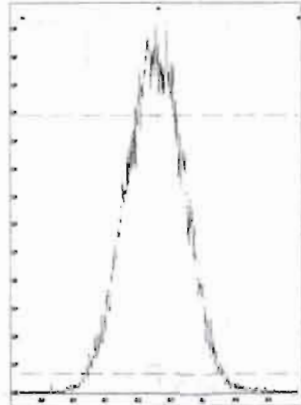
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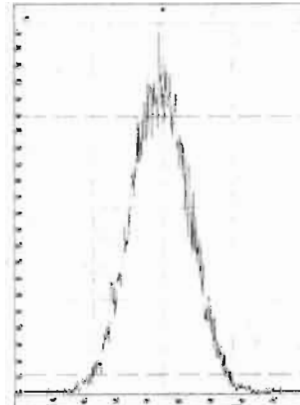
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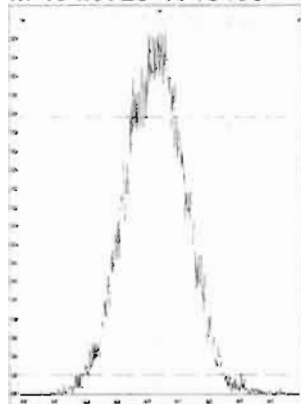
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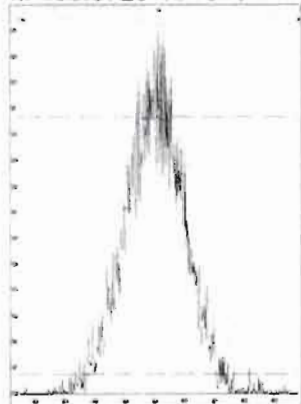
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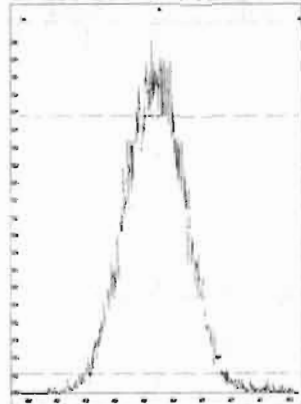
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M 466.9728 R 10731



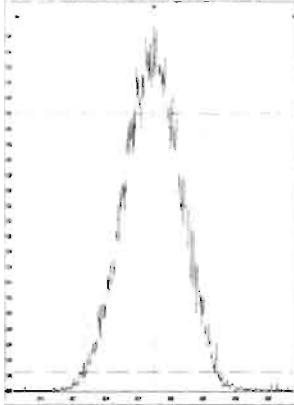
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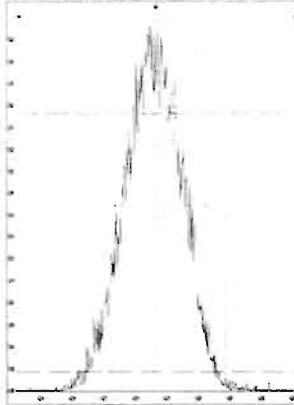
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Printed: Wednesday, May 06, 2020 13:33:59 Pacific Daylight Time

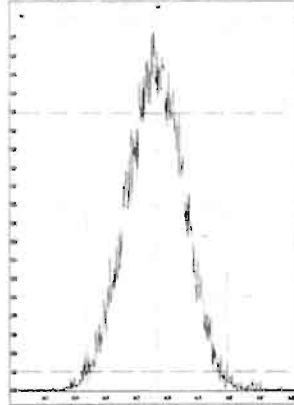
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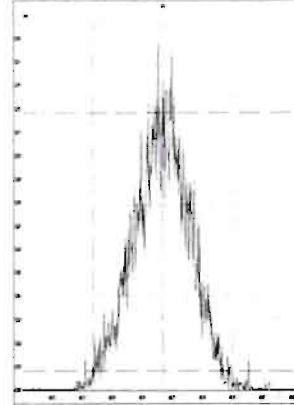
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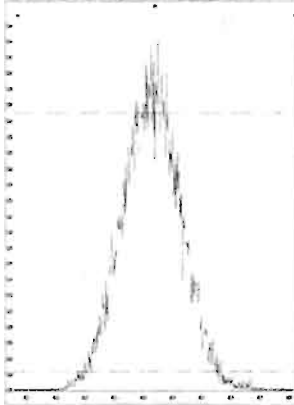
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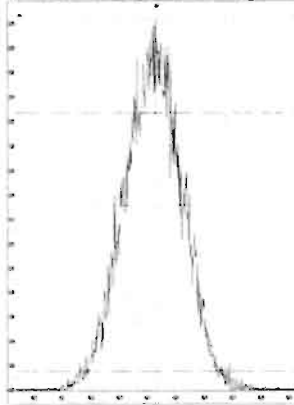
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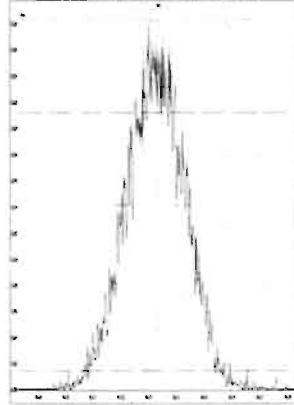
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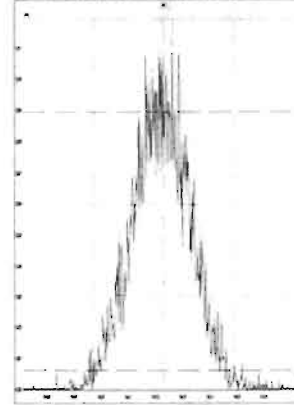
M 492.9696 R 10460



M 504.9696 R 11061



M 516.9697 R 10684



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Reg. Calibration ID:** ST200430D2-1

**Reviewed By:** CT 05/01/2020  
*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>	<input type="checkbox"/> DB	<input type="checkbox"/>
<b><u>Run Log:</u></b>		
<b>- Correct Instrument listed?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/> V
<b>- Samples within 12 hour clock?</b>	<input type="checkbox"/> V	N
<b>- Bottle position verified?</b>	<input type="checkbox"/> DB	<input type="checkbox"/>

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

**Comments:**

Dataset: U:\VG7.PRO\Results\200430D2\200430D2\_2.qld

Last Altered: Thursday, April 30, 2020 17:37:27 Pacific Daylight Time  
Printed: Thursday, April 30, 2020 17:38:32 Pacific Daylight Time

DB 4/30/20

CT 05/01/2020

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

Name: 200430D2\_2, Date: 30-Apr-2020, Time: 17:14:05, ID: ST200430D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	QL	EMPC
1	1 2,3,7,8-TCDF	5.12e3	0.79	NO	0.982	1.000	17.654	17.65	1.000	1.001	8.6612	86.684-120	0.949	8.66
2	2 13C-2,3,7,8-TCDF	6.02e4	0.75	NO	1.08	1.000	17.689	17.63	1.133	1.136	103.68	104 71-140	1.19	
3	3 13C-1,2,3,4-TCDF	5.36e4	0.77	NO	1.00	1.000	15.660	15.53	1.000	1.000	100.00	100	1.29	

Dataset: Untitled

Last Altered: Friday, May 01, 2020 09:11:52 Pacific Daylight Time

Printed: Friday, May 01, 2020 09:12:08 Pacific Daylight Time

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

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

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

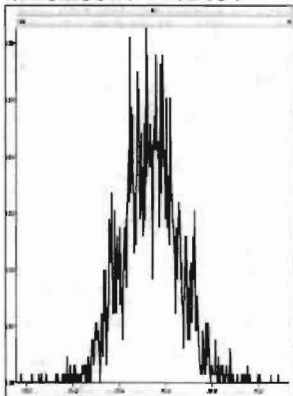
	Name	ID	Acq.Date	Acq.Time
1	200430D2_1	CP200430D2-1 DB-225 CPSM	30-Apr-20	16:43:45
2	200430D2_2	ST200430D2-1 1613 CS3 19L2305	30-Apr-20	17:14:05
3	200430D2_3	SOLVENT BLANK	30-Apr-20	17:45:48
4	200430D2_4	2000927-01RE1 PDI-151SC-A-01-02-200421 ...	30-Apr-20	18:17:35
5	200430D2_5	B0D0264-DUP1RE1 DUPLICATE	30-Apr-20	18:49:17
6	200430D2_6	2000927-02RE1 PDI-151SC-A-02-03-200421 ...	30-Apr-20	19:20:59
7	200430D2_7	2000927-03RE1 PDI-151SC-A-03-04-200421 ...	30-Apr-20	19:52:42
8	200430D2_8	2000927-04RE1 PDI-151SC-A-04-05-200421 ...	30-Apr-20	20:24:26
9	200430D2_9	2000927-05RE1 PDI-151SC-A-05-06-200421 ...	30-Apr-20	20:56:08
10	200430D2_10	2000927-06RE1 PDI-151SC-A-06-07-200421 ...	30-Apr-20	21:27:50
11	200430D2_11	2000927-07RE1 PDI-151SC-A-07-08-200421 ...	30-Apr-20	21:59:32
12	200430D2_12	2000927-08RE1 PDI-152SC-A-00-01-200421 ...	30-Apr-20	22:31:14
13	200430D2_13	2000927-09RE1 PDI-152SC-A-06-07-200421 ...	30-Apr-20	23:02:56
14	200430D2_14	2000927-10RE1 PDI-152SC-A-07-08-200421 ...	30-Apr-20	23:34:38
15	200430D2_15	2000927-11RE1 PDI-152SC-A-08-09-200421 ...	01-May-20	00:06:19



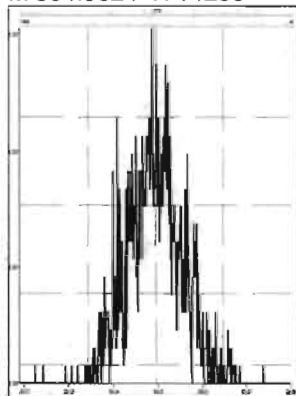
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, April 30, 2020 16:42:44 Pacific Daylight Time

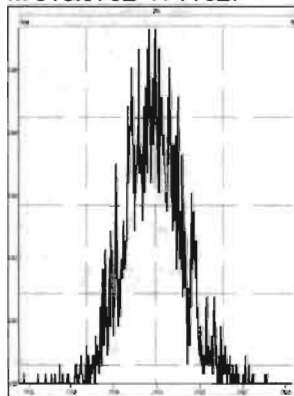
M 292.9824 R 12434



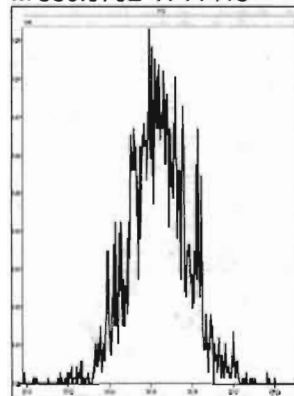
M 304.9824 R 14286



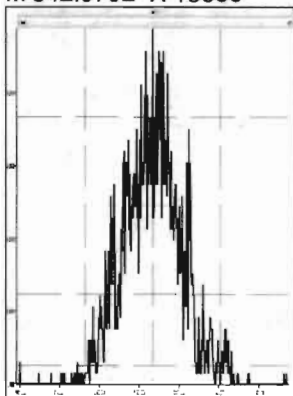
M 318.9792 R 11627



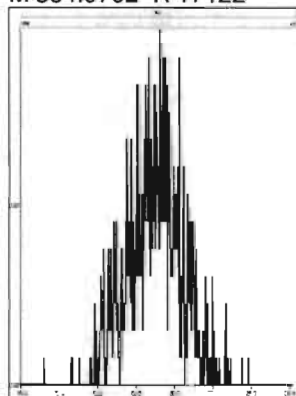
M 330.9792 R 11413



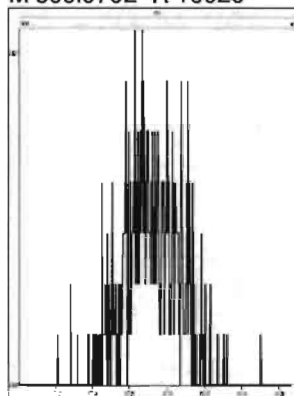
M 342.9792 R 13588



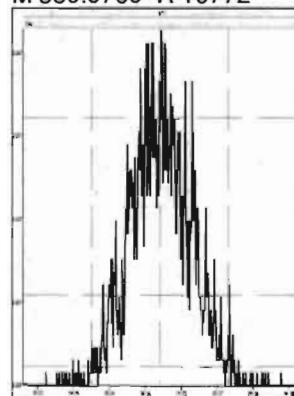
M 354.9792 R 17122

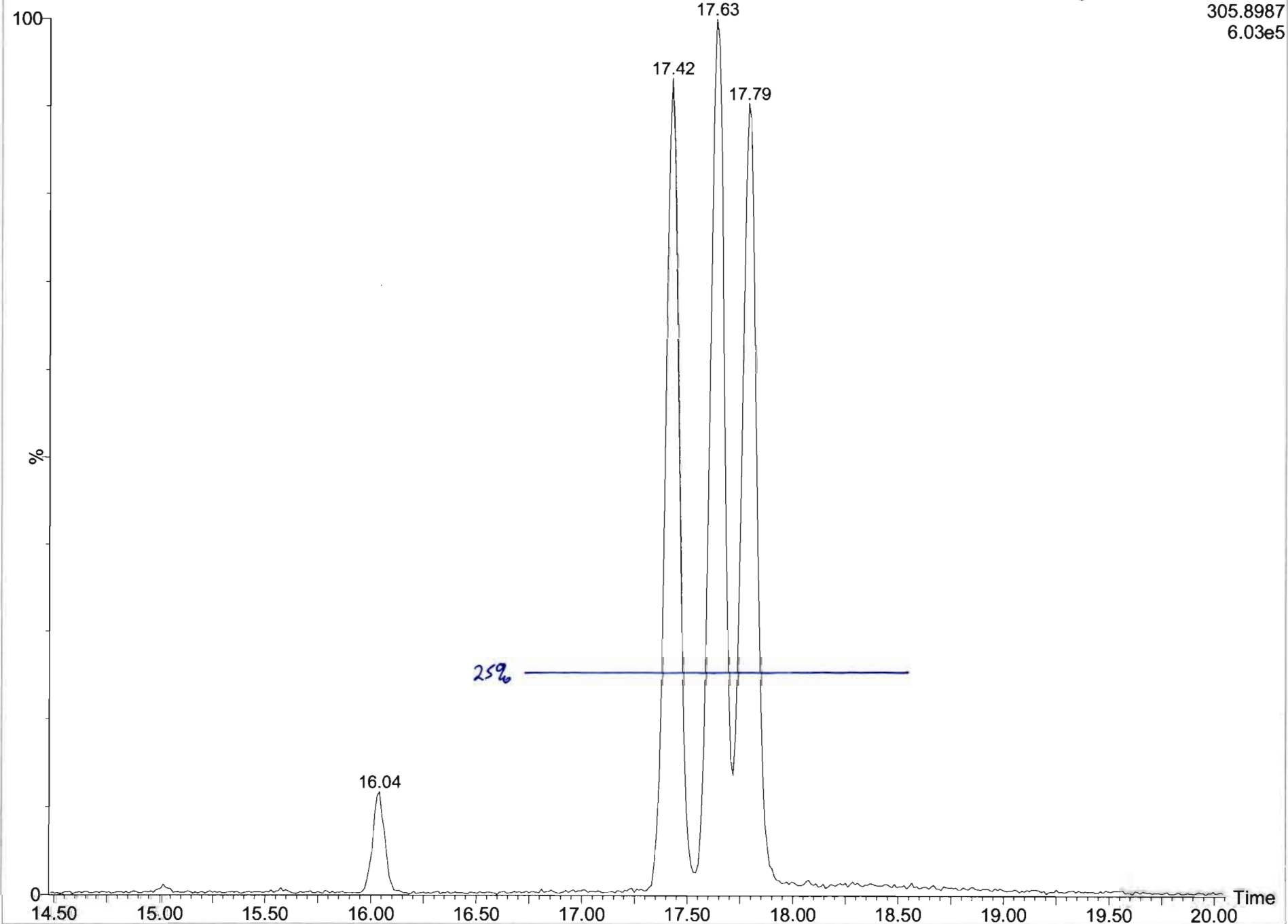


M 366.9792 R 16029



M 380.9760 R 10772





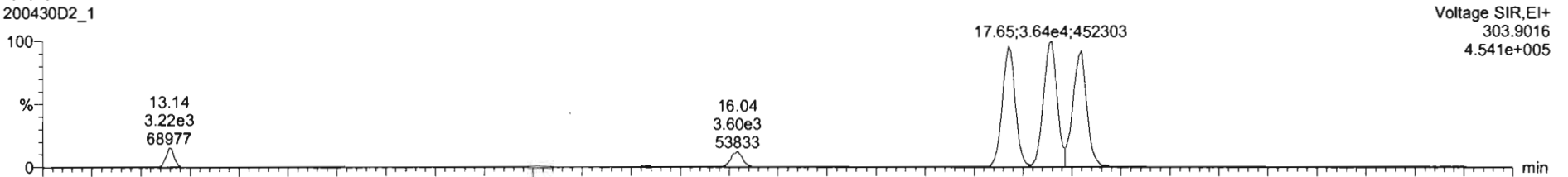
Dataset: U:\VG7.PRO\Results\200430D2\200430D2\_1.qld

Last Altered: Thursday, April 30, 2020 17:05:59 Pacific Daylight Time  
Printed: Thursday, April 30, 2020 17:07:18 Pacific Daylight Time

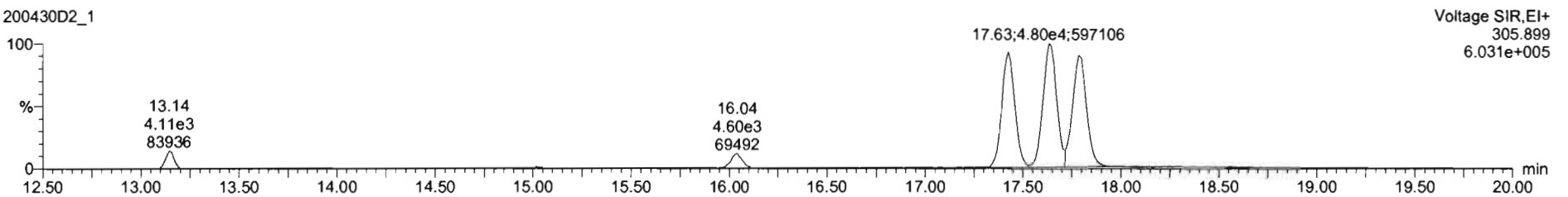
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200430D2\_1, Date: 30-Apr-2020, Time: 16:43:45, ID: CP200430D2-1 DB-225 CPSM, Description: DB-225 CPSM

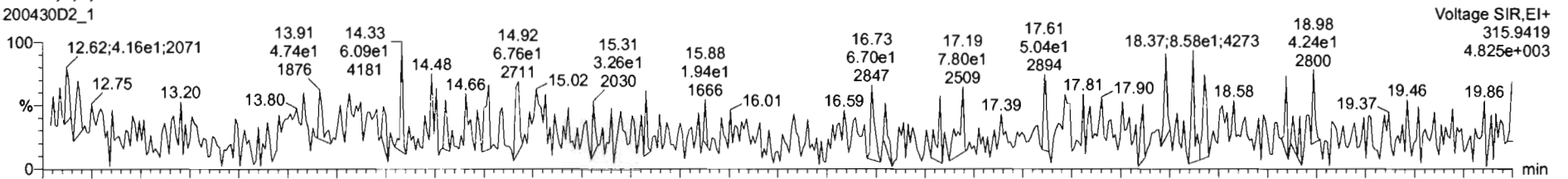
2,3,7,8-TCDF  
200430D2\_1



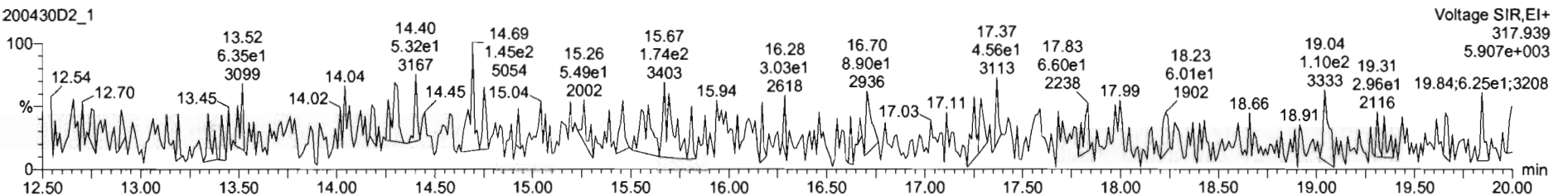
200430D2\_1



13C-2,3,7,8-TCDF  
200430D2\_1



200430D2\_1

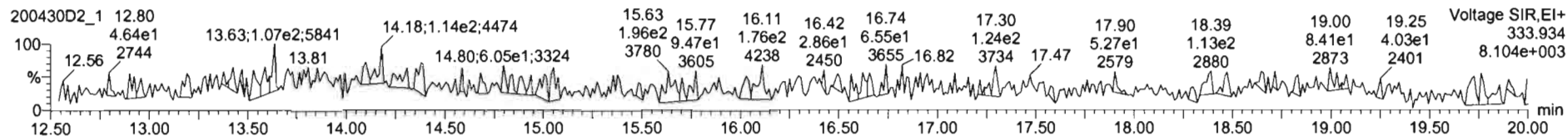
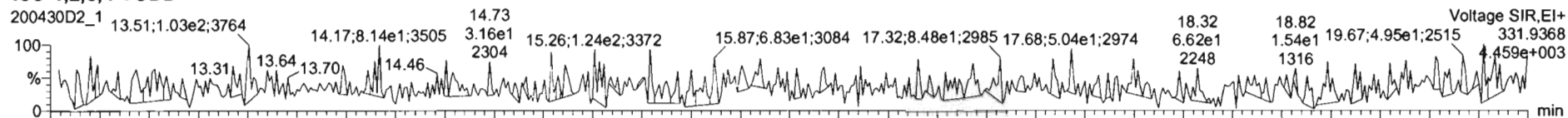


Dataset: U:\VG7.PRO\Results\200430D2\200430D2\_1.qld

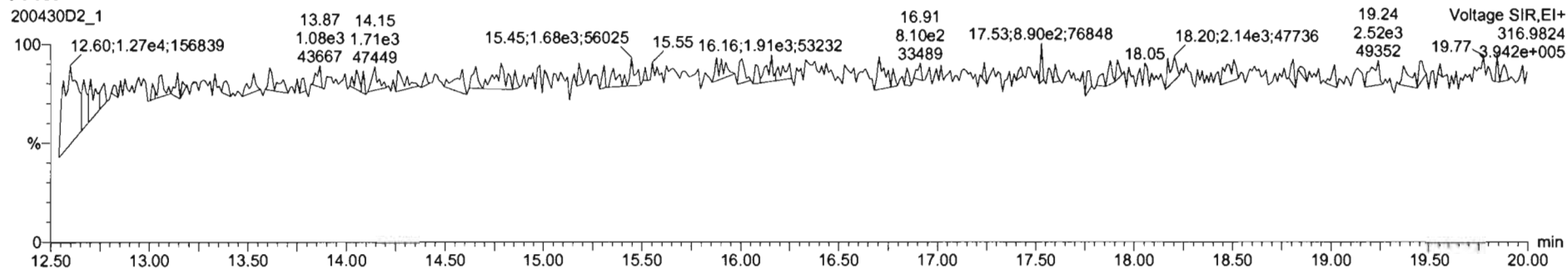
Last Altered: Thursday, April 30, 2020 17:05:59 Pacific Daylight Time  
Printed: Thursday, April 30, 2020 17:07:18 Pacific Daylight Time

Name: 200430D2\_1, Date: 30-Apr-2020, Time: 16:43:45, ID: CP200430D2-1 DB-225 CPSM, Description: DB-225 CPSM

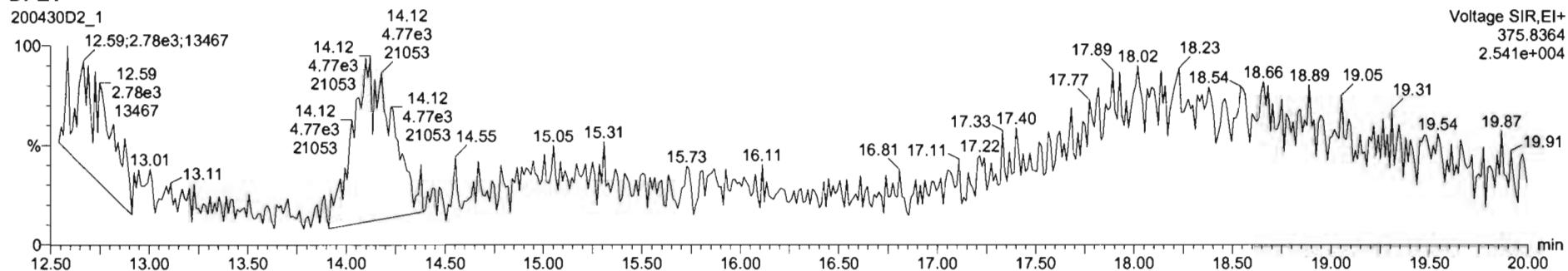
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200430D2\200430D2\_2.qld

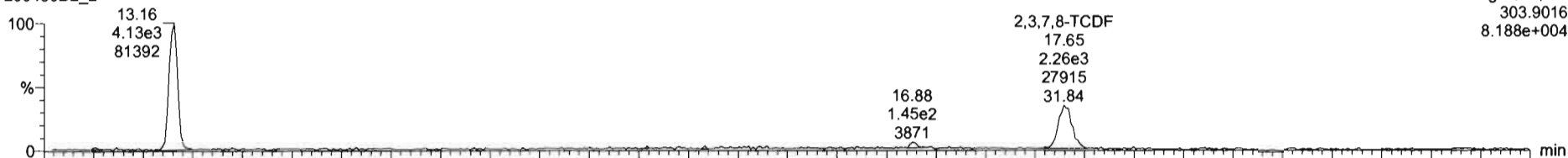
Last Altered: Thursday, April 30, 2020 17:37:27 Pacific Daylight Time  
Printed: Thursday, April 30, 2020 17:38:51 Pacific Daylight Time

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

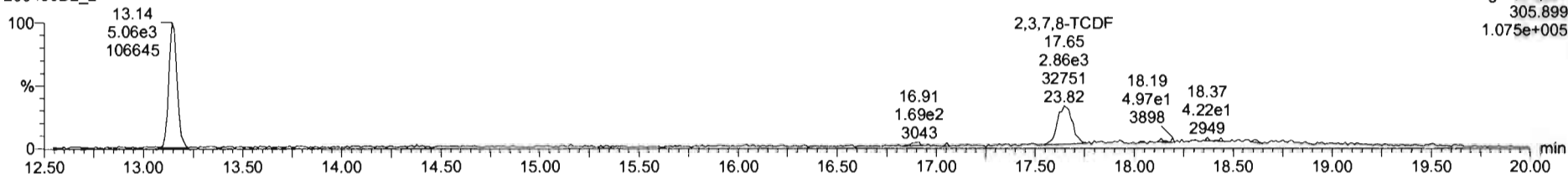
Name: 200430D2\_2, Date: 30-Apr-2020, Time: 17:14:05, ID: ST200430D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200430D2\_2

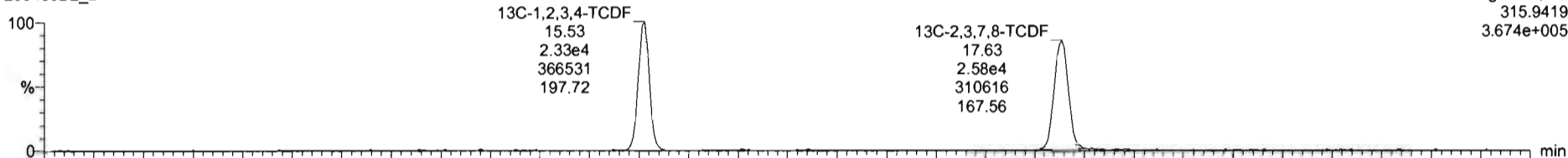


200430D2\_2

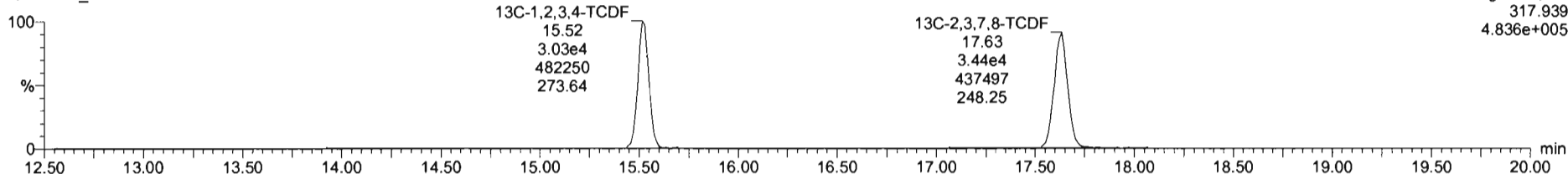


13C-2,3,7,8-TCDF

200430D2\_2



200430D2\_2



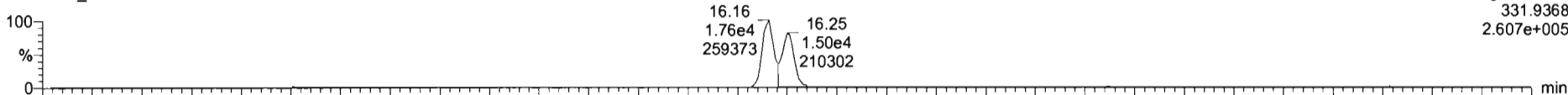
Dataset: U:\VG7.PRO\Results\200430D2\200430D2\_2.qld

Last Altered: Thursday, April 30, 2020 17:37:27 Pacific Daylight Time  
Printed: Thursday, April 30, 2020 17:38:51 Pacific Daylight Time

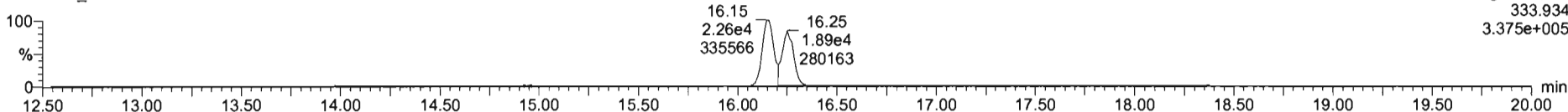
Name: 200430D2\_2, Date: 30-Apr-2020, Time: 17:14:05, ID: ST200430D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200430D2\_2

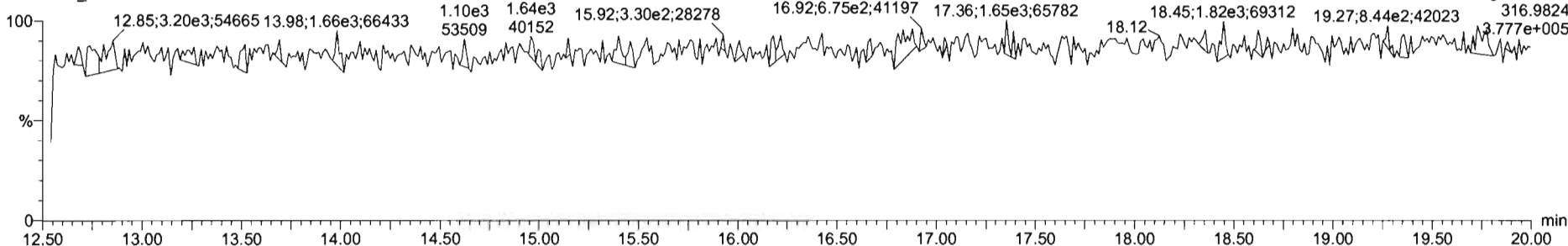


200430D2\_2



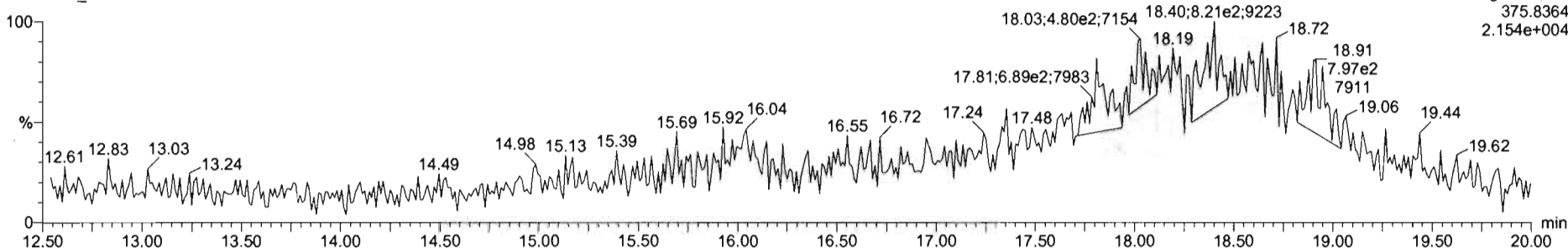
PFK1

200430D2\_2



DPE1

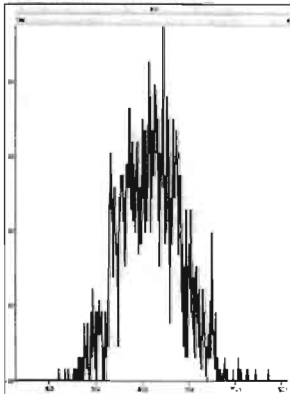
200430D2\_2



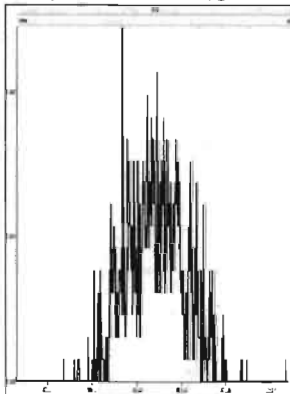
File: Experiment: tcdf\_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 01, 2020 00:39:41 Pacific Daylight Time

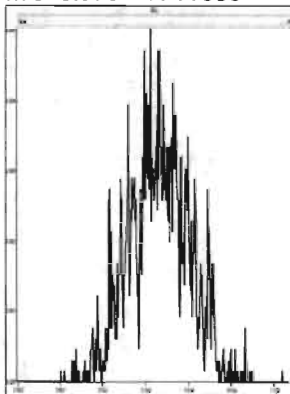
M 292.9824 R 13509



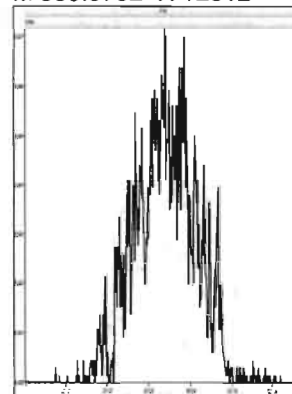
M 304.9824 R 14451



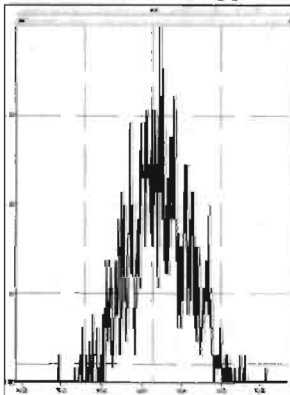
M 318.9792 R 11686



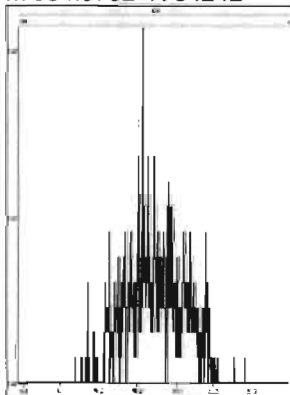
M 330.9792 R 12312



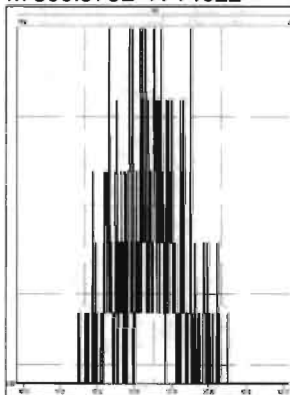
M 342.9792 R 12438



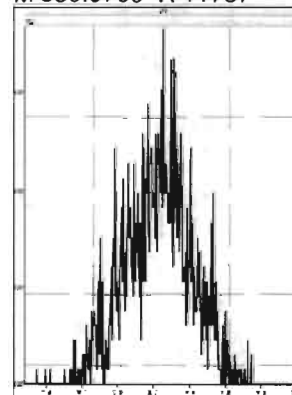
M 354.9792 R 34242



M 366.9792 R 14622



M 380.9760 R 11737



## HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST20042621-1

**Reviewed By:** LT 04/27/2020  
*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>NA</u>
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/> <u>NA</u>	<input type="checkbox"/>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/> <u>NA</u>	<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>GRB</u>	<u>GRB</u>
<b><u>Run Log:</u></b>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> <u>(Y)</u>	<input type="checkbox"/> <u>N</u>
- Bottle position verified?	<u>GRB</u>	<u>GRB</u>

**Mass resolution ≥**

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

**Comments:**

(A) ONE MASS EFFECTED BY COLUMN BLEED



Dataset: U:\VG12.PRO\Results\200426R1\200426R1-1.qld

Last Altered: Sunday, April 26, 2020 12:58:07 Pacific Daylight Time  
Printed: Monday, April 27, 2020 07:33:02 Pacific Daylight Time

GRB 04/27/2020

CT 04/27/2020

Method: U:\VG12.PRO\MethDB\PCB-209\_ZB1\_4-23-20.mdb 23 Apr 2020 11:56:31  
Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	1.22e6	3.18	NO	1.08	1.000	15.50	15.51	1.001	1.002	NO	52.74	105 <sup>75-125</sup>	0.00406	52.74
2	2 PCB-2	1.18e6	3.21	NO	1.03	1.000	17.91	17.91	0.988	0.988	NO	54.82	110	0.00417	54.82
3	3 PCB-3	1.20e6	3.18	NO	1.08	1.000	18.15	18.14	1.001	1.001	NO	53.29	107	0.00396	53.29
4	4 PCB-4/10	1.42e6	1.49	NO	0.897	1.000	19.56	19.56	1.005	1.004	NO	117.4	117	0.0296	117.4
5	5 PCB-7/9	1.72e6	1.49	NO	0.715	1.000	21.35	21.35	1.002	1.002	NO	113.8	114	0.0233	113.8
6	6 PCB-6	9.02e5	1.50	NO	0.729	1.000	22.00	22.00	1.033	1.033	NO	58.54	117	0.0229	58.54
7	7 PCB-5/8	1.81e6	1.49	NO	0.722	1.000	22.41	22.41	1.052	1.052	NO	118.9	119	0.0231	118.9
8	8 PCB-14	9.12e5	1.50	NO	0.753	1.000	23.55	23.55	0.952	0.952	NO	56.47	113	0.0219	56.47
9	9 PCB-11	1.00e6	1.49	NO	0.834	1.000	24.76	24.75	1.001	1.001	NO	56.11	112	0.0198	56.11
10	10 PCB-12/13	1.85e6	1.49	NO	0.733	1.000	25.12	25.13	1.016	1.016	NO	117.4	117	0.0225	117.4
11	11 PCB-15	9.68e5	1.49	NO	0.782	1.000	25.47	25.48	1.030	1.030	NO	57.69	115	0.0211	57.69
12	12 PCB-19	6.79e5	1.06	NO	1.06	1.000	23.71	23.71	1.001	1.001	NO	52.73	105	0.00856	52.73
13	13 PCB-30	1.07e6	1.07	NO	1.63	1.000	24.63	24.63	1.040	1.040	NO	53.77	108	0.00556	53.77
14	14 PCB-18	7.35e5	1.05	NO	0.777	1.000	25.39	25.39	0.952	0.952	NO	50.41	101	0.00736	50.41
15	15 PCB-17	6.94e5	1.06	NO	0.734	1.000	25.57	25.57	0.959	0.959	NO	50.44	101	0.00780	50.44
16	16 PCB-24/27	1.99e6	1.05	NO	1.02	1.000	26.16	26.16	0.981	0.981	NO	104.5	104	0.00563	104.5
17	17 PCB-16/32	1.75e6	1.06	NO	0.900	1.000	26.69	26.69	1.001	1.001	NO	104.0	104	0.00636	104.0
18	18 PCB-34	7.59e5	0.98	NO	0.664	1.000	27.51	27.51	0.959	0.959	NO	53.00	106	0.0293	53.00
19	19 PCB-23	7.93e5	0.99	NO	0.616	1.000	27.60	27.60	0.962	0.962	NO	59.75	120	0.0316	59.75
20	20 PCB-29	7.52e5	0.98	NO	0.615	1.000	27.86	27.85	0.971	0.971	NO	56.72	113	0.0316	56.72
21	21 PCB-26	8.12e5	0.98	NO	0.666	1.000	28.07	28.07	0.979	0.979	NO	56.59	113	0.0292	56.59
22	22 PCB-25	8.21e5	0.99	NO	0.650	1.000	28.25	28.24	0.985	0.984	NO	58.59	117	0.0299	58.59
23	23 PCB-31	9.46e5	0.97	NO	0.749	1.000	28.61	28.59	0.998	0.997	NO	58.57	117	0.0260	58.57
24	24 PCB-28	9.43e5	0.99	NO	0.775	1.000	28.72	28.70	1.001	1.001	NO	56.49	113	0.0251	56.49
25	25 PCB-20/21/33	2.59e6	0.98	NO	0.669	1.000	29.33	29.32	1.023	1.022	NO	179.5	120	0.0291	179.5
26	26 PCB-22	9.04e5	0.98	NO	0.731	1.000	29.78	29.78	1.038	1.038	NO	57.34	115	0.0266	57.34
27	27 PCB-36	9.51e5	1.00	NO	0.786	1.000	30.43	30.41	0.932	0.932	NO	52.05	104	0.0231	52.05
28	28 PCB-39	8.93e5	0.99	NO	0.730	1.000	30.90	30.90	0.946	0.946	NO	52.63	105	0.0249	52.63
29	29 PCB-38	9.84e5	1.00	NO	0.772	1.000	31.70	31.68	0.971	0.970	NO	54.78	110	0.0235	54.78
30	30 PCB-35	1.00e6	1.00	NO	0.747	1.000	32.22	32.22	0.987	0.987	NO	57.55	115	0.0243	57.55
31	31 PCB-37	1.00e6	0.99	NO	0.756	1.000	32.66	32.67	1.000	1.001	NO	57.07	114	0.0240	57.07

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-1.qld

Last Altered: Sunday, April 26, 2020 12:58:07 Pacific Daylight Time

Printed: Monday, April 27, 2020 07:33:02 Pacific Daylight Time

Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 PCB-54	9.61e5	0.79	NO	0.999	1.000	27.53	27.55	1.001	1.001	NO	55.24	110	0.0160	55.24
33	33 PCB-50	7.91e5	0.78	NO	0.788	1.000	28.74	28.74	1.045	1.045	NO	57.65	115	0.0203	57.65
34	34 PCB-53	7.59e5	0.79	NO	0.933	1.000	29.41	29.41	0.944	0.944	NO	50.39	101	0.0183	50.39
35	35 PCB-51	8.14e5	0.78	NO	1.02	1.000	29.76	29.74	0.955	0.955	NO	49.32	98.6	0.0167	49.32
36	36 PCB-45	6.64e5	0.78	NO	0.762	1.000	30.19	30.19	0.969	0.969	NO	54.00	108	0.0224	54.00
37	37 PCB-46	6.49e5	0.79	NO	0.738	1.000	30.69	30.69	0.985	0.985	NO	54.41	109	0.0232	54.41
38	38 PCB-52/69	1.90e6	0.78	NO	1.09	1.000	31.19	31.19	1.001	1.001	NO	108.1	108	0.0157	108.1
39	39 PCB-73	1.20e6	0.80	NO	1.30	1.000	31.32	31.31	1.005	1.005	NO	56.80	114	0.0131	56.80
40	40 PCB-43/49	1.68e6	0.78	NO	0.914	1.000	31.49	31.47	1.011	1.010	NO	114.2	114	0.0187	114.2
41	41 PCB-47	8.10e5	0.78	NO	0.841	1.000	31.68	31.70	1.001	1.001	NO	54.91	110	0.0192	54.91
42	42 PCB-48/75	2.01e6	0.79	NO	1.01	1.000	31.79	31.81	1.004	1.005	NO	113.3	113	0.0160	113.3
43	43 PCB-65	1.07e6	0.78	NO	1.05	1.000	32.07	32.07	1.013	1.013	NO	57.66	115	0.0153	57.66
44	44 PCB-62	1.03e6	0.79	NO	1.02	1.000	32.16	32.18	1.016	1.016	NO	57.12	114	0.0158	57.12
45	45 PCB-44	7.38e5	0.79	NO	0.716	1.000	32.49	32.50	1.026	1.026	NO	58.73	117	0.0226	58.73
46	46 PCB-42/59	1.90e6	0.79	NO	0.943	1.000	32.72	32.74	1.033	1.034	NO	115.1	115	0.0171	115.1
47	47 PCB-41/64/71/72	4.37e6	0.79	NO	1.07	1.000	33.31	33.33	1.052	1.053	NO	233.2	117	0.0151	233.2
48	48 PCB-68	1.16e6	0.79	NO	1.09	1.000	33.59	33.61	1.061	1.062	NO	60.37	121	0.0148	60.37
49	49 PCB-40	5.65e5	0.79	NO	0.535	1.000	33.80	33.82	1.067	1.068	NO	60.16	120	0.0302	60.16
50	50 PCB-57	1.24e6	0.78	NO	1.03	1.000	34.17	34.19	0.969	0.969	NO	55.24	110	0.0127	55.24
51	51 PCB-67	1.14e6	0.78	NO	0.985	1.000	34.49	34.51	0.978	0.978	NO	53.16	106	0.0133	53.16
52	52 PCB-58	1.30e6	0.79	NO	1.05	1.000	34.62	34.64	0.982	0.982	NO	56.41	113	0.0124	56.41
53	53 PCB-63	1.15e6	0.79	NO	0.933	1.000	34.77	34.79	0.986	0.986	NO	56.59	113	0.0140	56.59
54	54 PCB-74	1.23e6	0.78	NO	1.03	1.000	35.06	35.08	0.994	0.995	NO	54.93	110	0.0127	54.93
55	55 PCB-61/70	2.34e6	0.78	NO	0.968	1.000	35.29	35.21	1.001	0.998	NO	111.0	111	0.0135	111.0
56	56 PCB-76/66	2.55e6	0.79	NO	1.04	1.000	35.47	35.49	1.006	1.006	NO	112.2	112	0.0126	112.2
57	57 PCB-80	1.33e6	0.79	NO	1.07	1.000	35.73	35.74	1.000	1.000	NO	54.88	110	0.0114	54.88
58	58 PCB-55	1.34e6	0.78	NO	1.05	1.000	36.04	36.05	1.009	1.009	NO	56.82	114	0.0117	56.82
59	59 PCB-56/60	2.40e6	0.79	NO	0.932	1.000	36.54	36.55	1.023	1.023	NO	114.5	115	0.0131	114.5
60	60 PCB-79	1.34e6	0.78	NO	1.06	1.000	37.67	37.67	1.055	1.055	NO	56.55	113	0.0116	56.55
61	61 PCB-78	1.27e6	0.78	NO	1.00	1.000	38.38	38.38	0.987	0.987	NO	55.81	112	0.0126	55.81
62	62 PCB-81	1.15e6	0.78	NO	0.954	1.000	38.92	38.92	1.000	1.000	NO	52.96	106	0.0132	52.96
63	63 PCB-77	1.26e6	0.80	NO	1.07	1.000	39.51	39.51	1.000	1.000	NO	53.19	106	0.0121	53.19
64	64 PCB-104	8.94e5	1.61	NO	1.14	1.000	32.35	32.35	1.001	1.001	NO	50.99	102	0.00582	50.99
65	65 PCB-96	9.17e5	1.61	NO	1.12	1.000	33.65	33.63	1.041	1.040	NO	53.00	106	0.00590	53.00

75-125%  
↓

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-1.qld

Last Altered: Sunday, April 26, 2020 12:58:07 Pacific Daylight Time

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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
66	66 PCB-103	7.19e5	1.60	NO	0.862	1.000	34.21	34.21	1.058	1.058	NO	54.14	108 <sup>75-125%</sup>	0.00769	54.14
67	67 PCB-100	7.44e5	1.59	NO	0.903	1.000	34.58	34.56	1.070	1.069	NO	53.49	107	0.00734	53.49
68	68 PCB-94	5.91e5	1.60	NO	0.907	1.000	35.06	35.05	0.985	0.985	NO	49.83	99.7	0.00887	49.83
69	69 PCB-95/98/102	2.31e6	1.60	NO	1.18	1.000	35.54	35.53	0.999	0.998	NO	149.2	99.5	0.00681	149.2
70	70 PCB-93	6.19e5	1.64	NO	0.847	1.000	35.67	35.66	1.002	1.002	NO	55.89	112	0.00951	55.89
71	71 PCB-88/91	1.32e6	1.60	NO	0.981	1.000	36.00	36.00	1.012	1.012	NO	103.2	103	0.00821	103.2
72	72 PCB-121	1.10e6	1.63	NO	1.54	1.000	36.12	36.11	1.015	1.015	NO	54.30	109	0.00521	54.30
73	73 PCB-84/92	1.32e6	1.61	NO	0.977	1.000	36.94	36.94	0.990	0.990	NO	103.5	104	0.00805	103.5
74	74 PCB-89	7.14e5	1.60	NO	1.11	1.000	37.13	37.13	0.995	0.995	NO	49.36	98.7	0.00708	49.36
75	75 PCB-90/101	1.43e6	1.60	NO	1.08	1.000	37.32	37.34	1.000	1.000	NO	101.6	102	0.00727	101.6
76	76 PCB-113	1.01e6	1.60	NO	1.46	1.000	37.58	37.58	1.007	1.007	NO	53.49	107	0.00540	53.49
77	77 PCB-99	8.18e5	1.61	NO	1.24	1.000	37.67	37.67	1.009	1.010	NO	50.57	101	0.00633	50.57
78	78 PCB-119	1.01e6	1.65	NO	1.66	1.000	38.17	38.15	0.987	0.987	NO	51.61	103	0.00545	51.61
79	79 PCB-108/112	1.69e6	1.59	NO	1.39	1.000	38.30	38.30	0.991	0.991	NO	102.9	103	0.00651	102.9
80	80 PCB-83	1.03e6	1.59	NO	1.67	1.000	38.49	38.47	0.996	0.995	NO	52.50	105	0.00544	52.50
81	81 PCB-97	7.38e5	1.61	NO	1.25	1.000	38.68	38.67	1.000	1.000	NO	49.82	99.6	0.00722	49.82
82	82 PCB-86	6.53e5	1.58	NO	1.09	1.000	38.84	38.82	1.005	1.004	NO	50.53	101	0.00829	50.53
83	83 PCB-87/117/125	2.78e6	1.61	NO	1.53	1.000	38.95	38.95	1.008	1.008	NO	153.9	103	0.00592	153.9
84	84 PCB-111/115	2.16e6	1.60	NO	1.81	1.000	39.12	39.12	1.012	1.012	NO	100.7	101	0.00500	100.7
85	85 PCB-85/116	1.67e6	1.61	NO	1.32	1.000	39.22	39.23	1.015	1.015	NO	107.0	107	0.00686	107.0
86	86 PCB-120	1.15e6	1.60	NO	1.90	1.000	39.51	39.49	1.022	1.022	NO	51.42	103	0.00478	51.42
87	87 PCB-110	1.04e6	1.63	NO	1.65	1.000	39.66	39.64	1.026	1.026	NO	53.08	106	0.00549	53.08
88	88 PCB-82	6.28e5	1.61	NO	0.779	1.000	40.28	40.28	0.976	0.976	NO	49.18	98.4	0.00817	49.18
89	89 PCB-124	1.04e6	1.60	NO	1.32	1.000	40.98	40.98	0.993	0.993	NO	48.19	96.4	0.00482	48.20
90	90 PCB-107/109	2.22e6	1.60	NO	1.30	1.000	41.13	41.13	0.996	0.996	NO	104.3	104	0.00491	104.3
91	91 PCB-123	9.87e5	1.61	NO	1.19	1.000	41.30	41.30	1.000	1.000	NO	50.73	101	0.00536	50.73
92	92 PCB-106/118	2.10e6	1.60	NO	1.22	1.000	41.50	41.52	1.001	1.001	NO	100.2	100	0.00504	100.2
93	93 PCB-114	9.30e5	1.50	NO	0.886	1.000	42.16	42.16	1.000	1.000	NO	56.85	114	0.0194	56.85
94	94 PCB-122	7.94e5	1.53	NO	0.741	1.000	42.29	42.29	1.004	1.004	NO	58.07	116	0.0232	58.06
95	95 PCB-105	8.89e5	1.52	NO	0.850	1.000	43.05	43.05	1.001	1.001	NO	55.22	110	0.0206	55.22
96	96 PCB-127	9.45e5	1.51	NO	0.858	1.000	43.39	43.39	1.000	1.000	NO	55.63	111	0.0190	55.63
97	97 PCB-126	9.57e5	1.52	NO	0.962	1.000	45.33	45.34	1.000	1.000	NO	55.25	110	0.0188	55.25
98	98 PCB-155	6.31e5	1.29	NO	1.01	1.000	36.89	36.87	1.001	1.000	NO	48.99	98.0	0.00233	48.99
99	99 PCB-150	6.83e5	1.31	NO	1.05	1.000	38.15	38.15	1.035	1.035	NO	51.44	103	0.00226	51.44

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-1.qld

Last Altered: Sunday, April 26, 2020 12:58:07 Pacific Daylight Time  
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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
100	1... PCB-152	7.67e5	1.29	NO	1.20	1.000	38.64	38.64	1.049	1.048	NO	50.29	101 <b>75-125%</b>	0.00197	50.29
101	1... PCB-145	7.59e5	1.30	NO	1.17	1.000	39.10	39.10	1.061	1.061	NO	51.04	102	0.00202	51.04
102	1... PCB-136	6.81e5	1.28	NO	1.01	1.000	39.42	39.44	1.070	1.070	NO	53.30	107	0.00234	53.30
103	1... PCB-148	5.27e5	1.28	NO	0.770	1.000	39.55	39.55	1.073	1.073	NO	53.96	108	0.00307	53.96
104	1... PCB-154	5.86e5	1.29	NO	0.862	1.000	40.05	40.05	1.087	1.087	NO	53.58	107	0.00274	53.58
105	1... PCB-151	5.13e5	1.27	NO	0.723	1.000	40.70	40.70	1.105	1.105	NO	55.95	112	0.00327	55.95
106	1... PCB-135	5.70e5	1.28	NO	0.836	1.000	40.93	40.93	1.111	1.111	NO	53.70	107	0.00283	53.70
107	1... PCB-144	5.54e5	1.29	NO	0.756	1.000	41.04	41.04	1.114	1.114	NO	57.79	116	0.00312	57.79
108	1... PCB-147	5.39e5	1.29	NO	0.789	1.000	41.17	41.17	1.117	1.117	NO	53.84	108	0.00300	53.84
109	1... PCB-139/149	1.24e6	1.30	NO	0.896	1.000	41.45	41.45	1.125	1.125	NO	109.0	109	0.00264	109.0
110	1... PCB-140	5.26e5	1.28	NO	0.769	1.000	41.63	41.63	1.130	1.130	NO	53.91	108	0.00307	53.91
111	1... PCB-134/143	1.40e6	1.25	NO	0.653	1.000	42.10	42.08	0.975	0.974	NO	119.3	119	0.0537	119.3
112	1... PCB-131/133	1.50e6	1.25	NO	0.677	1.000	42.41	42.39	0.982	0.981	NO	123.7	124	0.0519	123.7
113	1... PCB-142	6.73e5	1.27	NO	0.614	1.000	42.56	42.54	0.985	0.985	NO	61.06	122	0.0572	61.06
114	1... PCB-146/165	1.82e6	1.26	NO	0.836	1.000	42.81	42.78	0.991	0.990	NO	121.4	121	0.0420	121.4
115	1... PCB-132/161	1.86e6	1.25	NO	0.908	1.000	43.05	43.03	0.997	0.996	NO	114.3	114	0.0387	114.3
116	1... PCB-153	9.57e5	1.24	NO	1.00	1.000	43.24	43.22	1.001	1.000	NO	53.21	106	0.0351	53.22
117	1... PCB-168	9.74e5	1.25	NO	1.00	1.000	43.45	43.43	1.006	1.005	NO	54.06	108	0.0350	54.06
118	1... PCB-141	7.62e5	1.25	NO	0.970	1.000	43.96	43.98	1.000	1.001	NO	52.75	106	0.0435	52.75
119	1... PCB-137	7.96e5	1.23	NO	0.913	1.000	44.36	44.36	1.010	1.010	NO	58.54	117	0.0462	58.54
120	1... PCB-130	6.72e5	1.25	NO	0.803	1.000	44.45	44.47	1.012	1.012	NO	56.22	112	0.0526	56.22
121	1... PCB-138/163/164	3.01e6	1.25	NO	1.21	1.000	44.85	44.85	1.001	1.001	NO	160.8	107	0.0332	160.8
122	1... PCB-158/160	1.96e6	1.25	NO	1.10	1.000	45.10	45.10	1.007	1.006	NO	114.9	115	0.0364	114.9
123	1... PCB-129	6.59e5	1.27	NO	0.779	1.000	45.36	45.34	1.012	1.012	NO	54.64	109	0.0515	54.64
124	1... PCB-166	1.07e6	1.26	NO	1.01	1.000	45.82	45.82	0.993	0.993	NO	56.46	113	0.0333	56.46
125	1... PCB-159	1.17e6	1.26	NO	1.11	1.000	46.16	46.16	1.000	1.000	NO	56.25	112	0.0303	56.25
126	1... PCB-128/162	1.76e6	1.25	NO	0.859	1.000	46.46	46.44	1.007	1.007	NO	108.9	109	0.0391	108.9
127	1... PCB-167	1.06e6	1.26	NO	1.04	1.000	46.86	46.86	1.000	1.000	NO	53.20	106	0.0320	53.20
128	1... PCB-156	1.07e6	1.25	NO	1.08	1.000	48.17	48.17	1.000	1.000	NO	53.03	106	0.0314	53.03
129	1... PCB-157	9.83e5	1.26	NO	0.977	1.000	48.45	48.45	1.000	1.000	NO	53.04	106	0.0344	53.04
130	1... PCB-169	1.06e6	1.25	NO	1.11	1.000	50.70	50.70	1.000	1.000	NO	53.36	107	0.0334	53.37
131	1... PCB-188	9.95e5	1.05	NO	1.27	1.000	42.84	42.82	1.001	1.000	NO	52.55	105	0.0265	52.55
132	1... PCB-184	9.74e5	1.06	NO	1.33	1.000	43.28	43.30	1.011	1.012	NO	49.15	98.3	0.0253	49.16
133	1... PCB-179	1.00e6	1.04	NO	1.25	1.000	44.08	44.09	1.030	1.030	NO	53.57	107	0.0269	53.57

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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
134	1... PCB-176	1.02e6	1.05	NO	1.22	1.000	44.56	44.57	1.041	1.041	NO	55.93	112 <u>75-125%</u>	0.0274	55.94
135	1... PCB-186	1.08e6	1.04	NO	1.31	1.000	45.18	45.19	1.055	1.056	NO	55.16	110	0.0257	55.16
136	1... PCB-178	7.41e5	1.05	NO	0.889	1.000	45.69	45.70	1.067	1.068	NO	55.76	112	0.0377	55.76
137	1... PCB-175	7.60e5	1.05	NO	0.886	1.000	46.04	46.04	1.076	1.076	NO	57.43	115	0.0379	57.42
138	1... PCB-182/187	1.70e6	1.05	NO	1.04	1.000	46.23	46.23	1.080	1.080	NO	109.1	109	0.0322	109.1
139	1... PCB-183	8.46e5	1.05	NO	0.972	1.000	46.57	46.56	1.088	1.088	NO	58.26	117	0.0345	58.26
140	1... PCB-185	7.70e5	1.05	NO	1.35	1.000	47.24	47.22	0.955	0.954	NO	52.69	105	0.0347	52.69
141	1... PCB-174	7.39e5	1.04	NO	1.28	1.000	47.62	47.60	0.963	0.962	NO	53.21	106	0.0365	53.21
142	1... PCB-181	8.02e5	1.06	NO	1.48	1.000	47.71	47.71	0.964	0.964	NO	50.09	100	0.0316	50.09
143	1... PCB-177	7.06e5	1.06	NO	1.24	1.000	47.88	47.88	0.968	0.968	NO	52.50	105	0.0377	52.50
144	1... PCB-171	7.27e5	1.07	NO	1.33	1.000	48.19	48.19	0.974	0.974	NO	50.56	101	0.0352	50.56
145	1... PCB-173	6.63e5	1.04	NO	1.16	1.000	48.62	48.60	0.983	0.982	NO	52.97	106	0.0405	52.97
146	1... PCB-172	7.58e5	1.08	NO	1.34	1.000	49.08	49.08	0.992	0.992	NO	52.13	104	0.0349	52.13
147	1... PCB-192	9.93e5	1.06	NO	1.67	1.000	49.26	49.28	0.996	0.996	NO	55.08	110	0.0281	55.08
148	1... PCB-180	7.90e5	1.06	NO	1.38	1.000	49.49	49.49	1.000	1.000	NO	52.94	106	0.0340	52.94
149	1... PCB-193	9.11e5	1.07	NO	1.56	1.000	49.70	49.70	1.005	1.005	NO	54.04	108	0.0301	54.04
150	1... PCB-191	9.21e5	1.05	NO	1.60	1.000	49.97	49.97	1.010	1.010	NO	53.05	106	0.0292	53.05
151	1... PCB-170	6.82e5	1.05	NO	1.41	1.000	51.14	51.14	1.000	1.000	NO	51.88	104	0.0399	51.88
152	1... PCB-190	9.09e5	1.05	NO	1.79	1.000	51.35	51.35	1.005	1.004	NO	54.56	109	0.0315	54.56
153	1... PCB-189	9.08e5	1.05	NO	1.47	1.000	52.94	52.92	1.000	1.000	NO	51.60	103	0.0265	51.60
154	1... PCB-202	7.92e5	0.91	NO	1.09	1.000	48.39	48.39	1.000	1.000	NO	52.17	104	0.0144	52.17
155	1... PCB-201	7.30e5	0.91	NO	0.947	1.000	48.90	48.89	1.011	1.011	NO	55.38	111	0.0166	55.38
156	1... PCB-204	7.86e5	0.91	NO	1.03	1.000	49.05	49.04	1.014	1.014	NO	54.73	109	0.0153	54.73
157	1... PCB-197	7.85e5	0.91	NO	1.02	1.000	49.37	49.36	1.020	1.020	NO	55.02	110	0.0154	55.02
158	1... PCB-200	7.52e5	0.91	NO	0.976	1.000	50.29	50.29	1.040	1.040	NO	55.35	111	0.0161	55.34
159	1... PCB-198	5.78e5	0.91	NO	0.752	1.000	51.87	51.88	1.072	1.072	NO	55.16	110	0.0209	55.16
160	1... PCB-199	5.76e5	0.92	NO	0.732	1.000	52.02	52.01	1.075	1.075	NO	56.49	113	0.0215	56.49
161	1... PCB-196/203	1.19e6	0.92	NO	0.824	1.000	52.32	52.31	1.082	1.082	NO	103.8	104	0.0191	103.8
162	1... PCB-195	5.17e5	0.86	NO	0.765	1.000	53.63	53.64	0.983	0.983	NO	62.23	124	0.0289	62.23
163	1... PCB-194	5.55e5	0.87	NO	0.967	1.000	54.58	54.58	1.000	1.000	NO	52.80	106	0.0228	52.80
164	1... PCB-205	6.64e5	0.87	NO	1.11	1.000	54.85	54.86	1.005	1.005	NO	55.02	110	0.0199	55.02
165	1... PCB-208	7.43e5	1.35	NO	0.901	1.000	53.80	53.81	1.000	1.000	NO	53.70	107	0.0246	53.70
166	1... PCB-207	7.32e5	1.37	NO	0.841	1.000	54.14	54.14	1.007	1.007	NO	56.74	113	0.0263	56.74
167	1... PCB-206	4.73e5	1.35	NO	0.958	1.000	56.10	56.10	1.000	1.000	NO	53.62	107	0.0354	53.62

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-1.qld

Last Altered: Sunday, April 26, 2020 12:58:07 Pacific Daylight Time  
Printed: Monday, April 27, 2020 07:33:02 Pacific Daylight Time

Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
168	1... PCB-209	4.66e5	1.18	NO	0.956	1.000	57.35	57.35	1.000	1.000	NO	52.56	105.75-125%	0.00701	52.56
169	1... 13C-PCB-1	2.13e6	3.29	NO	0.999	1.000	15.49	15.48	0.609	0.608	NO	92.51	92.5 90-145%	0.0157	
170	1... 13C-PCB-3	2.09e6	3.34	NO	1.03	1.000	18.13	18.13	0.712	0.712	NO	88.36	88.4	0.0152	
171	1... 13C-PCB-4	1.35e6	1.58	NO	0.650	1.000	19.47	19.47	0.765	0.765	NO	89.88	89.9	0.0183	
172	1... 13C-PCB-9	2.11e6	1.57	NO	0.996	1.000	21.30	21.30	0.837	0.837	NO	92.15	92.1	0.0119	
173	1... 13C-PCB-11	2.15e6	1.57	NO	0.959	1.000	24.74	24.73	0.972	0.972	NO	97.11	97.1	0.0124	
174	1... 13C-PCB-19	1.21e6	1.07	NO	0.529	1.000	23.70	23.69	0.931	0.931	NO	99.62	99.6	0.157	
175	1... 13C-PCB-32	1.87e6	1.09	NO	0.760	1.000	26.66	26.67	1.048	1.048	NO	107.1	107	0.109	
176	1... 13C-PCB-28	2.16e6	1.02	NO	1.10	1.000	28.66	28.68	1.003	1.004	NO	94.37	94.4	0.104	
177	1... 13C-PCB-37	2.33e6	1.02	NO	0.983	1.000	32.63	32.65	1.142	1.143	NO	113.6	114	0.116	
178	1... 13C-PCB-54	1.74e6	0.80	NO	1.07	1.000	27.53	27.51	0.753	0.753	NO	71.77	71.8	0.0356	
179	1... 13C-PCB-52	1.61e6	0.79	NO	0.854	1.000	31.17	31.16	0.853	0.853	NO	83.27	83.3	0.0446	
180	1... 13C-PCB-47	1.75e6	0.79	NO	0.905	1.000	31.69	31.66	0.867	0.867	NO	85.41	85.4	0.0421	
181	1... 13C-PCB-70	2.18e6	0.80	NO	1.01	1.000	35.29	35.27	0.966	0.965	NO	95.51	95.5	0.0379	
182	1... 13C-PCB-80	2.25e6	0.79	NO	1.04	1.000	35.72	35.72	0.978	0.978	NO	95.06	95.1	0.0365	
183	1... 13C-PCB-81	2.28e6	0.79	NO	0.974	1.000	38.90	38.90	1.065	1.065	NO	103.2	103	0.0391	
184	1... 13C-PCB-77	2.23e6	0.80	NO	0.951	1.000	39.49	39.49	1.081	1.081	NO	103.2	103	0.0401	
185	1... 13C-PCB-104	1.54e6	1.61	NO	1.08	1.000	32.33	32.33	0.827	0.827	NO	83.81	83.8	0.0123	
186	1... 13C-PCB-95	1.31e6	1.62	NO	0.847	1.000	35.60	35.59	0.910	0.910	NO	91.09	91.1	0.0157	
187	1... 13C-PCB-101	1.30e6	1.63	NO	0.827	1.000	37.32	37.32	0.955	0.954	NO	93.00	93.0	0.0161	
188	1... 13C-PCB-97	1.18e6	1.62	NO	0.707	1.000	38.64	38.66	0.988	0.989	NO	98.64	98.6	0.0189	
189	1... 13C-PCB-123	1.64e6	1.59	NO	0.914	1.000	41.28	41.28	1.056	1.056	NO	105.9	106	0.0146	
190	1... 13C-PCB-118	1.72e6	1.61	NO	0.961	1.000	41.47	41.47	1.061	1.060	NO	105.8	106	0.0139	
191	1... 13C-PCB-114	1.85e6	1.58	NO	1.41	1.000	42.14	42.14	0.908	0.908	NO	97.32	97.3	0.0305	
192	1... 13C-PCB-105	1.89e6	1.57	NO	1.56	1.000	43.03	43.01	0.927	0.927	NO	89.97	90.0	0.0275	
193	1... 13C-PCB-127	1.98e6	1.56	NO	1.71	1.000	43.37	43.37	0.935	0.935	NO	85.58	85.6	0.0250	
194	1... 13C-PCB-126	1.80e6	1.58	NO	1.37	1.000	45.31	45.32	0.976	0.977	NO	97.43	97.4	0.0313	
195	1... 13C-PCB-155	1.27e6	1.29	NO	0.634	1.000	36.85	36.85	0.942	0.942	NO	118.2	118	0.0153	
196	1... 13C-PCB-153	1.80e6	1.27	NO	1.53	1.000	43.18	43.20	0.931	0.931	NO	87.13	87.1	0.0364	
197	1... 13C-PCB-141	1.49e6	1.26	NO	1.19	1.000	43.94	43.94	0.947	0.947	NO	92.49	92.5	0.0466	
198	1... 13C-PCB-138	1.55e6	1.27	NO	1.18	1.000	44.81	44.81	0.966	0.966	NO	96.98	97.0	0.0470	
199	1... 13C-PCB-159	1.88e6	1.26	NO	1.38	1.000	46.13	46.14	0.994	0.994	NO	100.8	101	0.0402	
200	2... 13C-PCB-167	1.91e6	1.26	NO	1.38	1.000	46.83	46.84	1.009	1.009	NO	102.1	102	0.0402	
201	2... 13C-PCB-156	1.86e6	1.27	NO	1.33	1.000	48.18	48.15	1.038	1.038	NO	104.0	104	0.0419	

Dataset: U:\VG12.PRO\Results\200426R1\200426R1-1.qld

Last Altered: Sunday, April 26, 2020 12:58:07 Pacific Daylight Time  
Printed: Monday, April 27, 2020 07:33:02 Pacific Daylight Time

Sample Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
202	2... 13C-PCB-157	1.90e6	1.30	NO	1.36	1.000	48.44	48.43	1.044	1.044	NO	103.1	103 <sup>50-145%</sup>	0.0408	
203	2... 13C-PCB-169	1.79e6	1.27	NO	1.27	1.000	50.70	50.69	1.092	1.092	NO	104.6	105	0.0438	
204	2... 13C-PCB-188	1.49e6	0.45	NO	1.41	1.000	42.80	42.80	0.926	0.926	NO	95.44	95.4	0.0212	
205	2... 13C-PCB-180	1.08e6	0.45	NO	0.897	1.000	49.47	49.47	1.070	1.070	NO	108.5	108	0.0332	
206	2... 13C-PCB-170	9.30e5	0.45	NO	0.769	1.000	51.15	51.12	1.106	1.106	NO	108.8	109	0.0388	
207	2... 13C-PCB-189	1.20e6	0.45	NO	1.05	1.000	52.93	52.92	1.145	1.145	NO	102.8	103	0.0284	
208	2... 13C-PCB-202	1.39e6	0.93	NO	1.05	1.000	48.37	48.37	1.046	1.046	NO	119.9	120	0.0298	
209	2... 13C-PCB-194	1.09e6	0.89	NO	0.753	1.000	54.58	54.57	0.995	0.995	NO	99.11	99.1	0.0489	
210	2... 13C-PCB-208	1.54e6	0.78	NO	0.988	1.000	53.78	53.79	0.981	0.981	NO	106.6	107	0.0414	
211	2... 13C-PCB-206	9.21e5	0.78	NO	0.672	1.000	56.09	56.09	1.023	1.023	NO	93.95	94.0	0.0608	
212	2... 13C-PCB-209	9.28e5	1.21	NO	0.609	1.000	57.33	57.33	1.045	1.045	NO	104.5	105	0.0112	
213	2... 13C-PCB-15	2.30e6	1.57	NO	1.00	1.000	25.47	25.45	1.000	0.000	NO	100.0	100	0.0119	
214	2... 13C-PCB-31	2.08e6	1.02	NO	1.00	1.000	28.59	28.57	1.000	0.000	NO	100.0	100	0.114	
215	2... 13C-PCB-60	2.27e6	0.79	NO	1.00	1.000	36.54	36.53	1.000	0.000	NO	100.0	100	0.0381	
216	2... 13C-PCB-111	1.69e6	1.64	NO	1.00	1.000	39.10	39.10	1.000	0.000	NO	100.0	100	0.0133	
217	2... 13C-PCB-128	1.35e6	1.24	NO	1.00	1.000	46.38	46.40	1.000	0.000	NO	100.0	100	0.0556	
218	2... 13C-PCB-182	1.11e6	0.46	NO	1.00	1.000	46.21	46.23	0.000	0.000	NO	100.0	100	0.0298	
219	2... 13C-PCB-205	1.46e6	0.89	NO	1.00	1.000	54.84	54.84	1.000	0.000	NO	100.0	100	0.0368	
220	2... 13C-PCB-79	2.48e6	0.79	NO	1.08	1.000	37.62	37.63	1.030	1.030	NO	101.2	101 <sup>15-125%</sup>	0.0353	
221	2... 13C-PCB-178	1.05e6	0.45	NO	0.731	1.000	45.69	45.68	0.988	0.988	NO	106.2	106	0.0334	
222	2... 13C-PCB-79	2.48e6	0.79	NO	1.11	1.000	37.63	37.63	0.967	0.967	NO	98.04	98.0	0.0348	
223	2... 13C-PCB-178	1.05e6	0.45	NO	1.05	1.000	45.69	45.68	0.924	0.923	NO	92.69	92.7	0.0294	

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Printed: Monday, April 27, 2020 08:05:16 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

Compound name: PCB-1

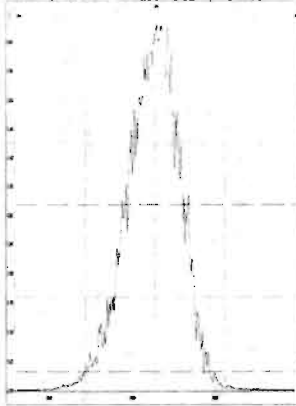
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1	200426R1_1	ST200426R1_1 1668 PCB CS3 19G2609	26-Apr-20	11:43:14
2	200426R1_2	B0D0247-BS4 OPR 1	26-Apr-20	12:46:15
3	200426R1_3	B0D0265-BS1 OPR 10	26-Apr-20	13:46:26
4	200426R1_4	B0D0278-BS1 OPR 10	26-Apr-20	14:46:55
5	200426R1_5	SOLVENT BLANK	26-Apr-20	15:47:21
6	200426R1_6	B0D0265-BLK1 Method Blank 10	26-Apr-20	16:47:48
7	200426R1_7	B0D0278-BLK1 Method Blank 10	26-Apr-20	17:48:15
8	200426R1_8	2000927-08@20X PDI-152SC-A-00-01-20042...	26-Apr-20	18:48:42
9	200426R1_9	2000933-02@20X PDI-154SC-A-00-01-20042...	26-Apr-20	19:49:10
10	200426R1_10	2000933-10@20X PDI-155SC-A-00-01-20042...	26-Apr-20	20:49:37
11	200426R1_11	SOLVENT BLANK	26-Apr-20	21:58:35



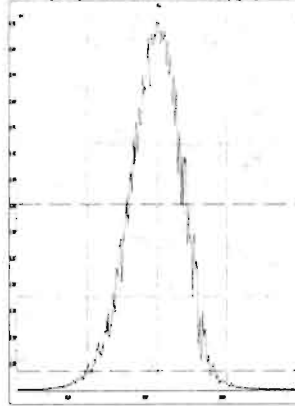
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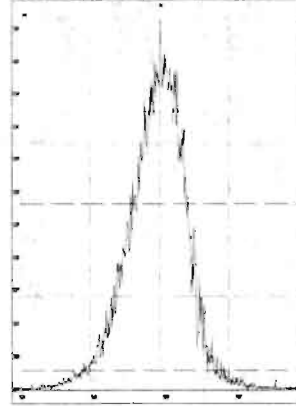
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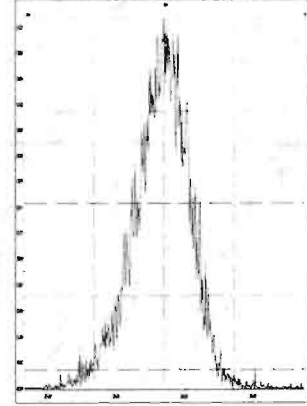
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M 192.9888 R 11736



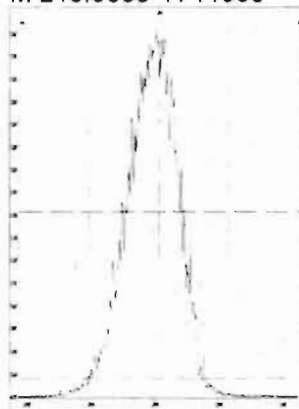
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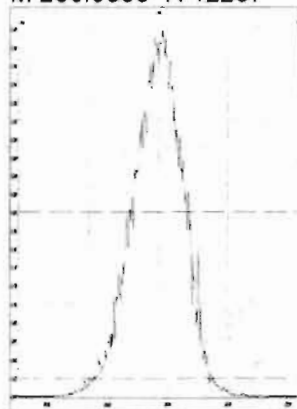
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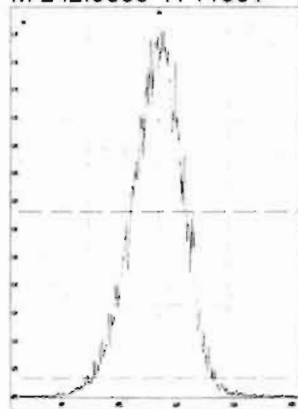
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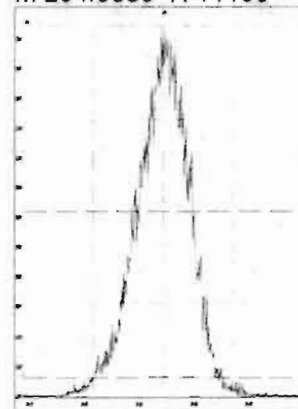
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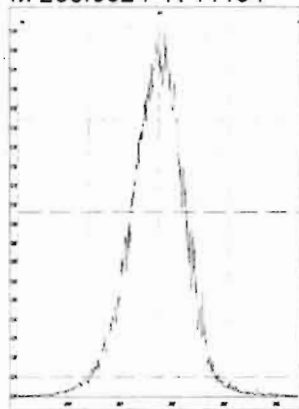
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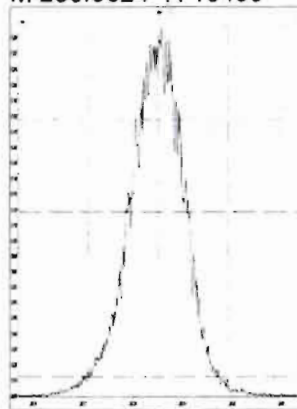
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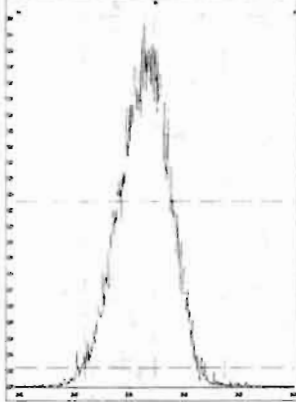
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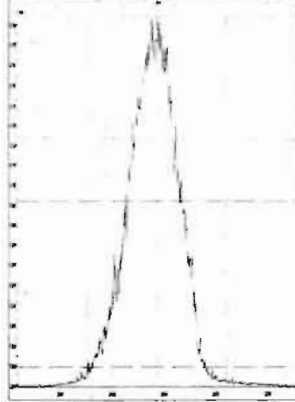
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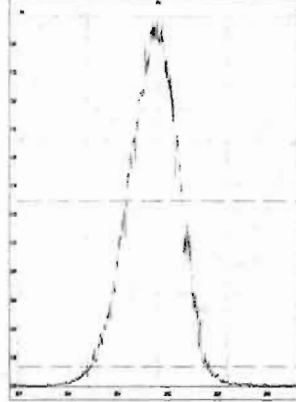
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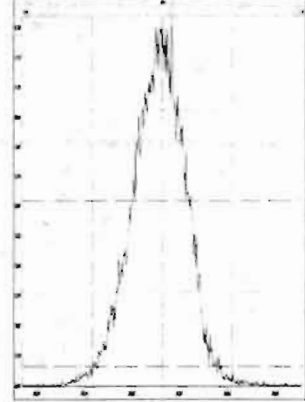
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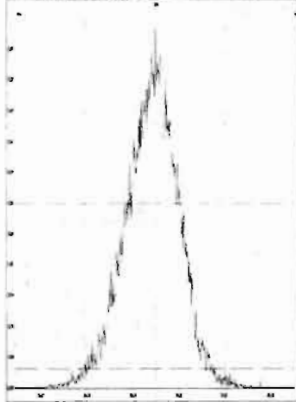
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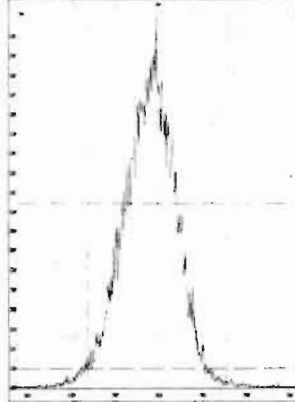
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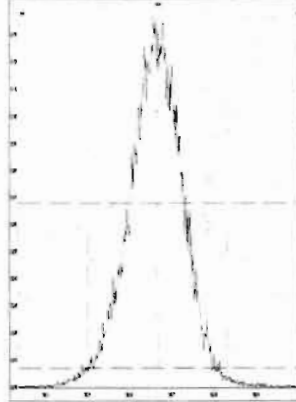
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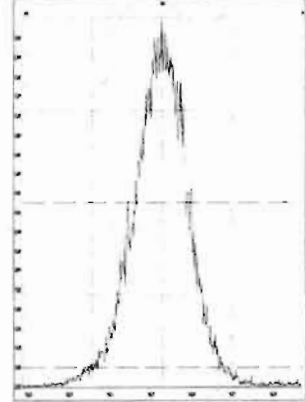
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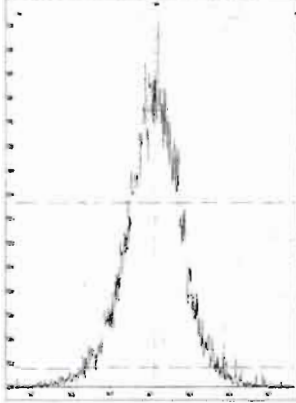
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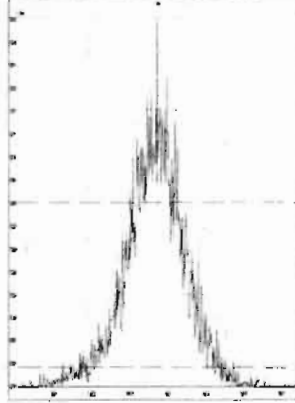
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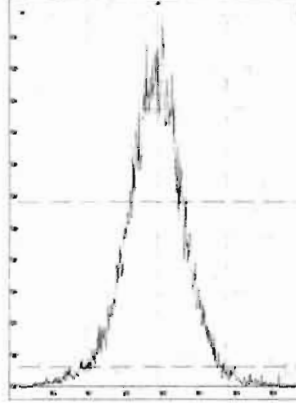
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M 366.9792 R 10635



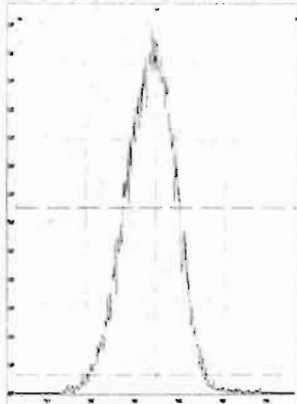
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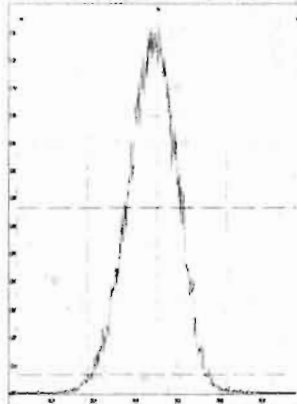
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Printed: Sunday, April 26, 2020 11:41:26 Pacific Daylight Time

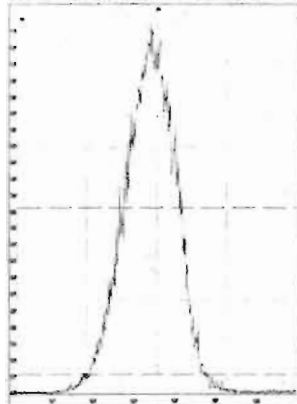
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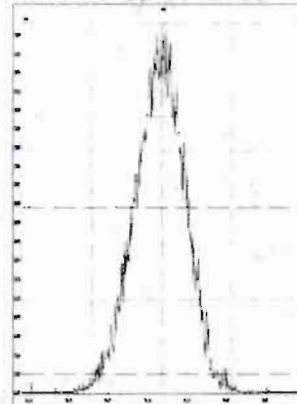
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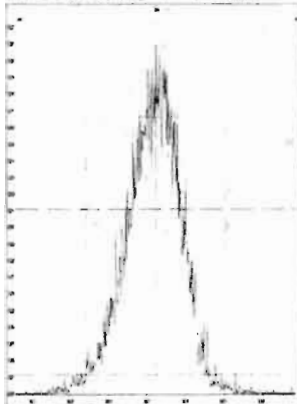
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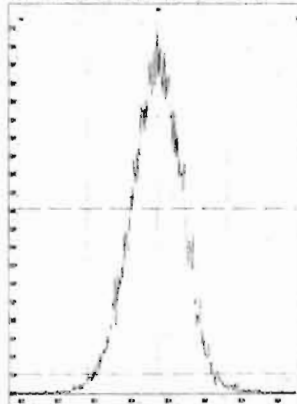
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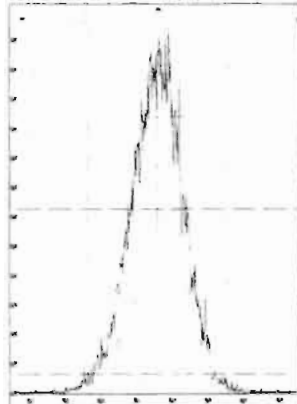
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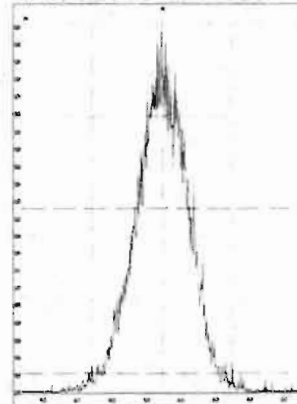
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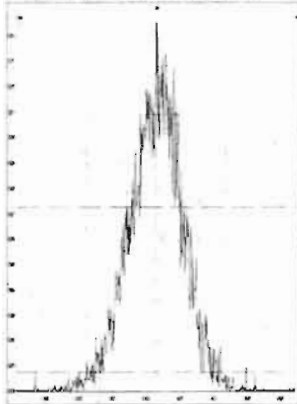
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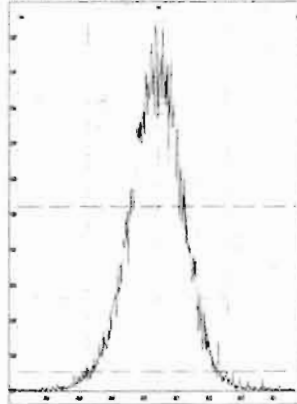
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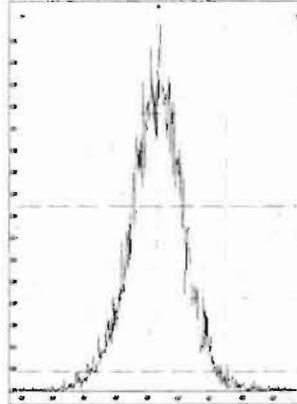
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M 430.9728 R 11159



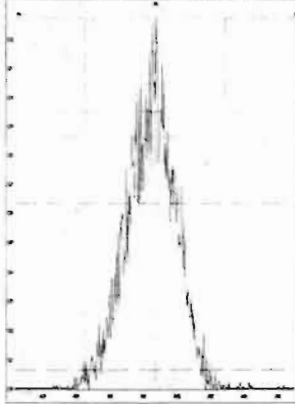
M 442.9728 R 10684



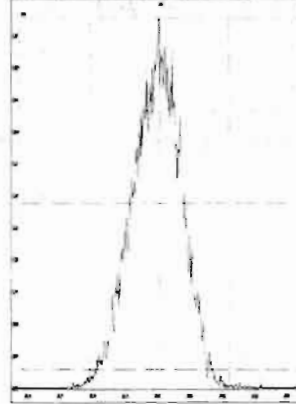
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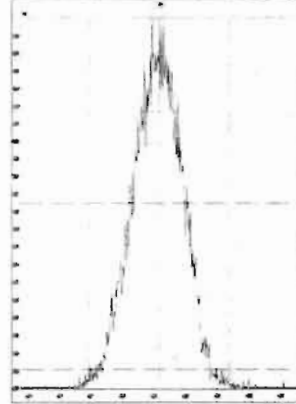
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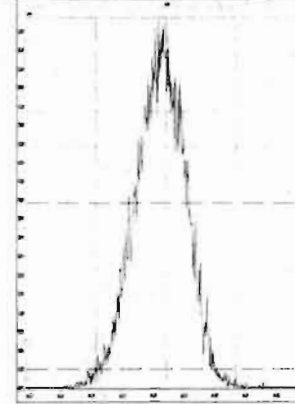
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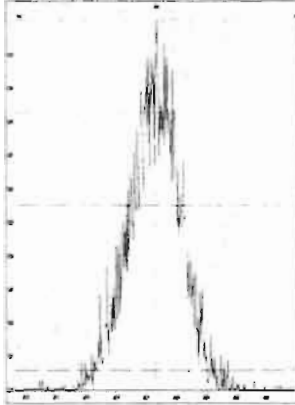
M 442.9728 R 13157



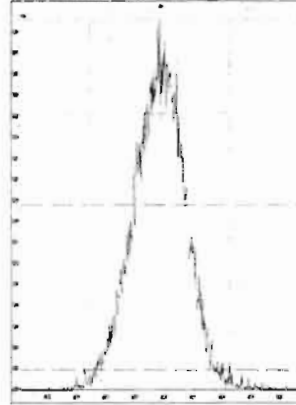
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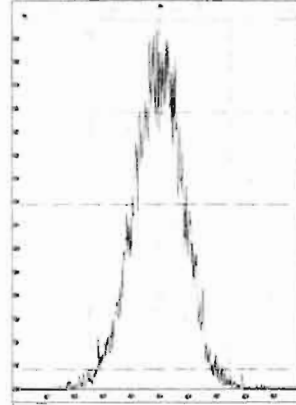
M 466.9728 R 12315



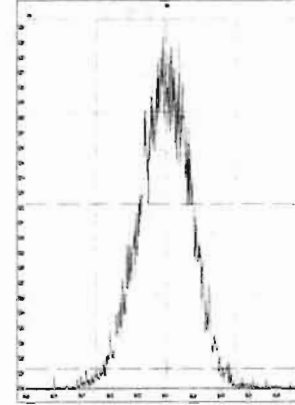
M 480.9696 R 12314



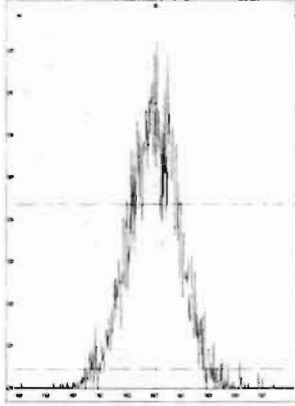
M 492.9696 R 12196



M 504.9696 R 12499



M 516.9697 R 14117



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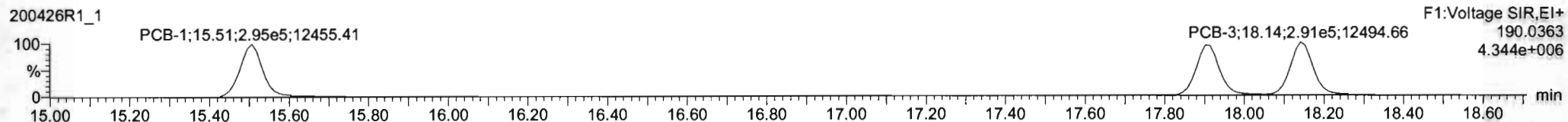
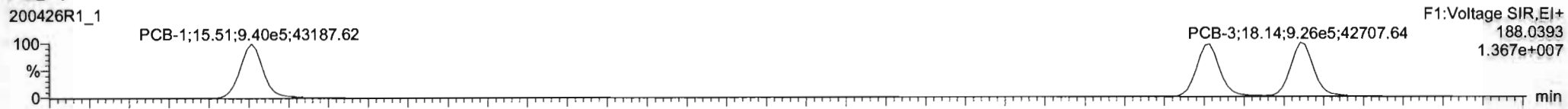
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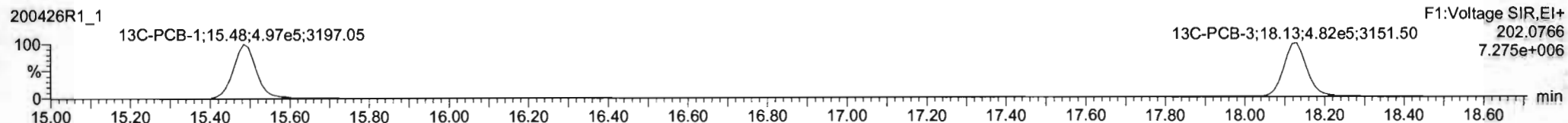
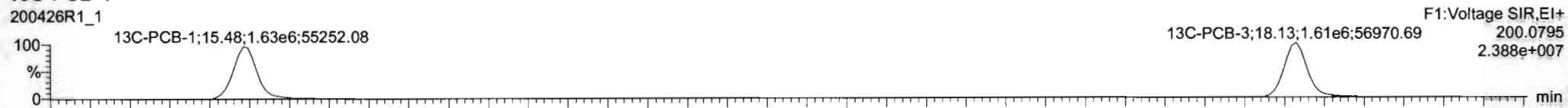
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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

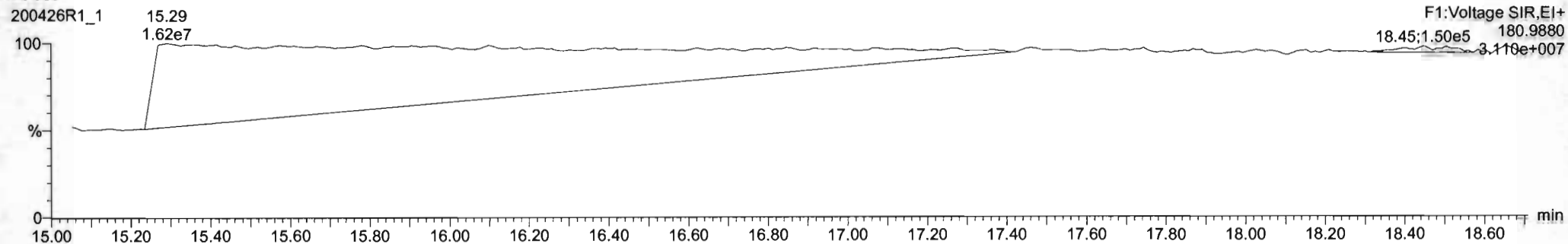
**PCB-1**



**13C-PCB-1**

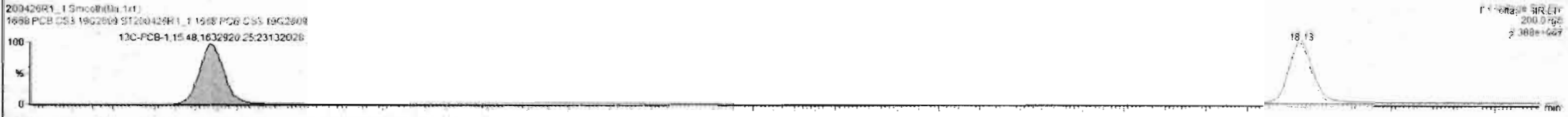
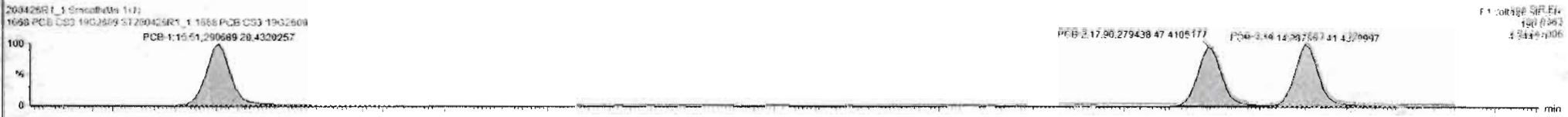


**PFK1**



#	Name	Resp	RA	n/y	RRF	wsvol	Pred.RT	RT	Pred.R	RRT	RRT Fat	Conc	Rec	DL	EMPC
224	224 Total Mono-PCBs				1.0627	1.000	0.00		0.000		NO	160.9		0.0122	160.9
225	225 Total Di-PCBs				0.7706	1.000	0.00		0.000		NO	696.2		0.184	696.2

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1 PCB-1	15.50	15.51	9.249e5	2.907e5	3.120	3.18	NO	52.743	52.743
2	2 PCB-2	17.91	17.91	8.959e5	2.79e5	3.130	3.21	NO	54.622	54.622
3	3 PCB-3	18.15	18.14	9.149e5	2.877e5	3.130	3.18	NO	53.292	53.292

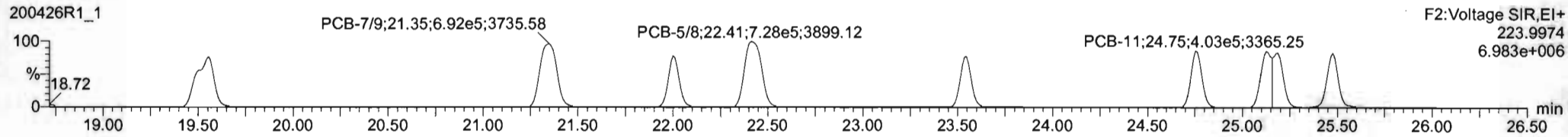
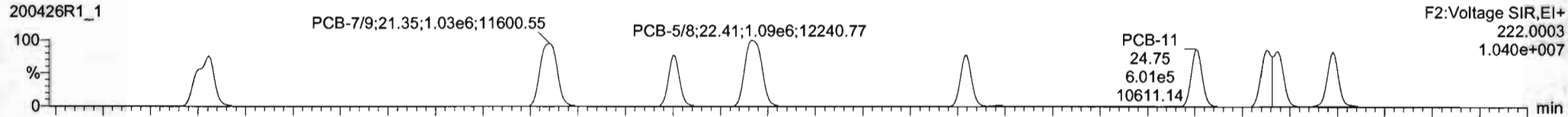


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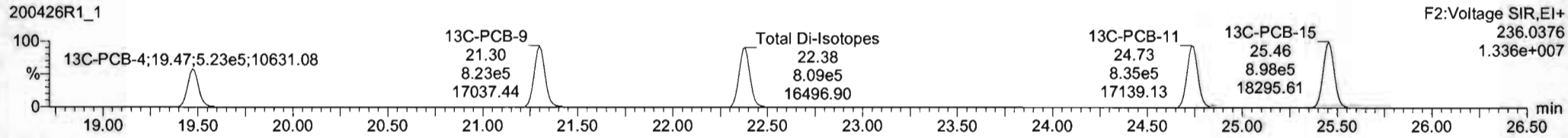
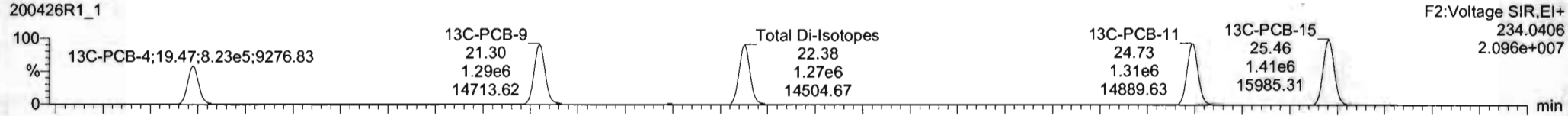
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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

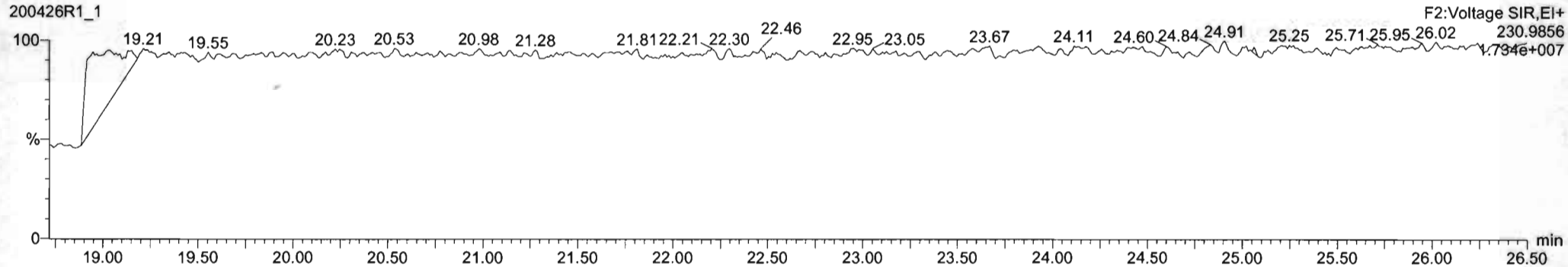
**PCB-4/10**



**13C-PCB-4**



**PFK2a**







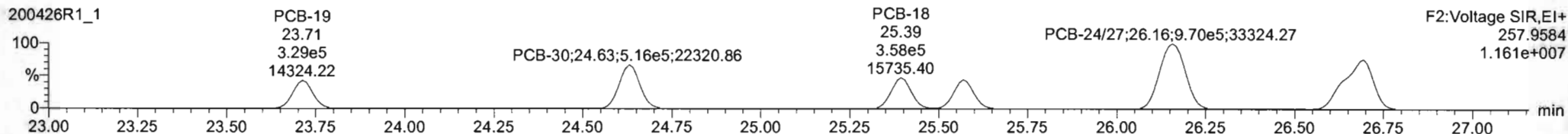
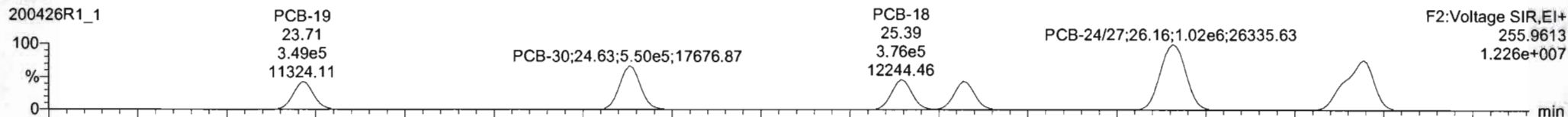
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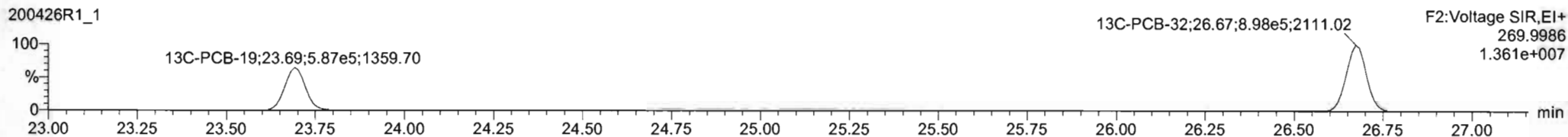
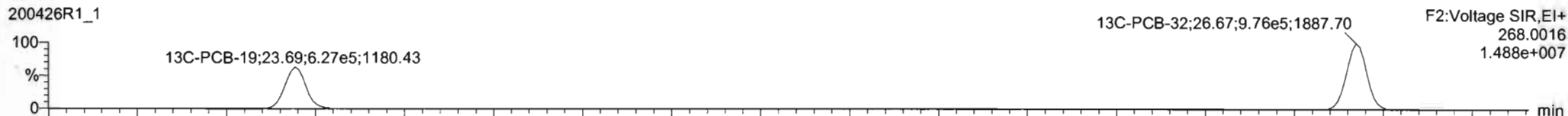
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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

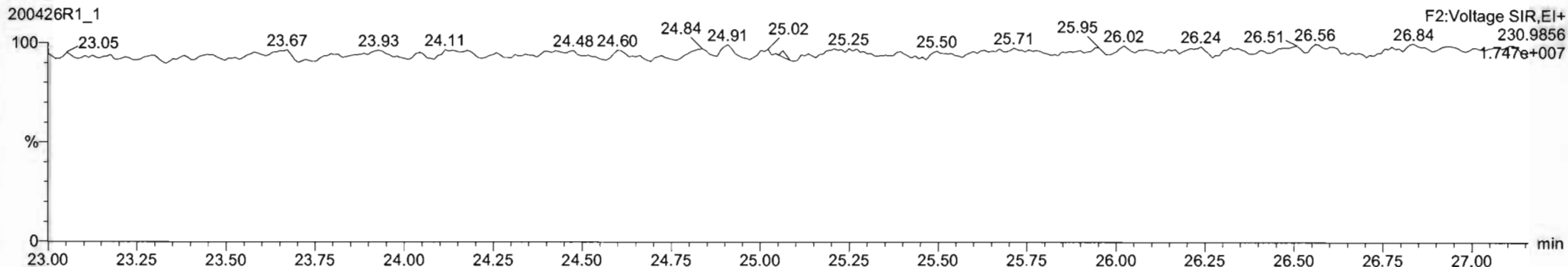
**PCB-19**



**13C-PCB-19**



**PFK2b**

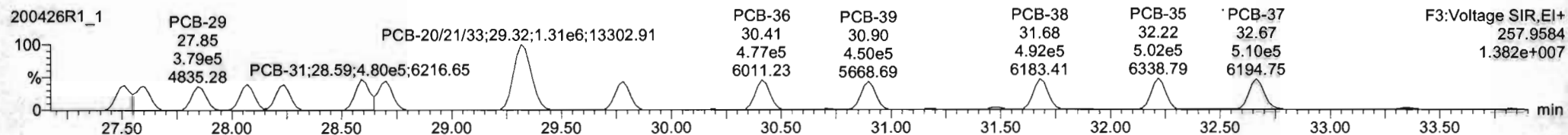
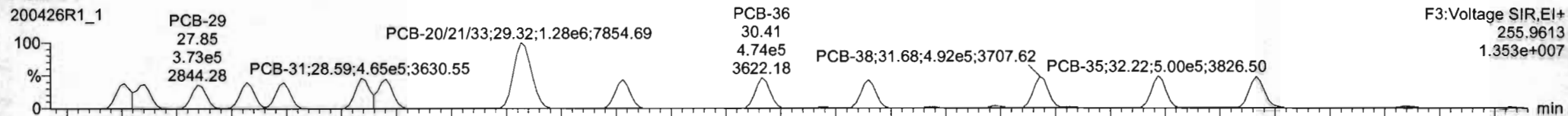


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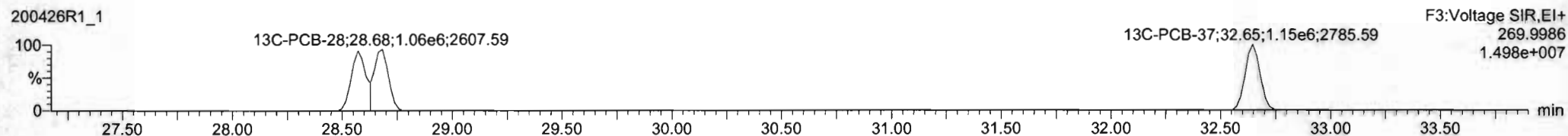
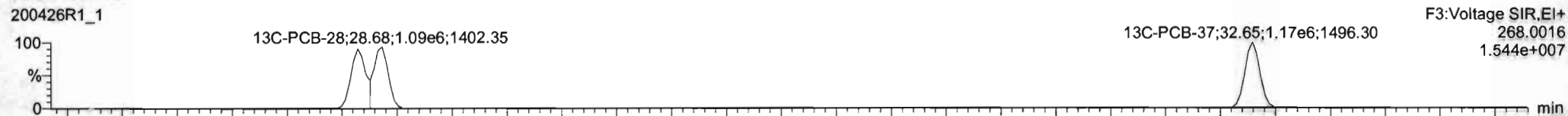
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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

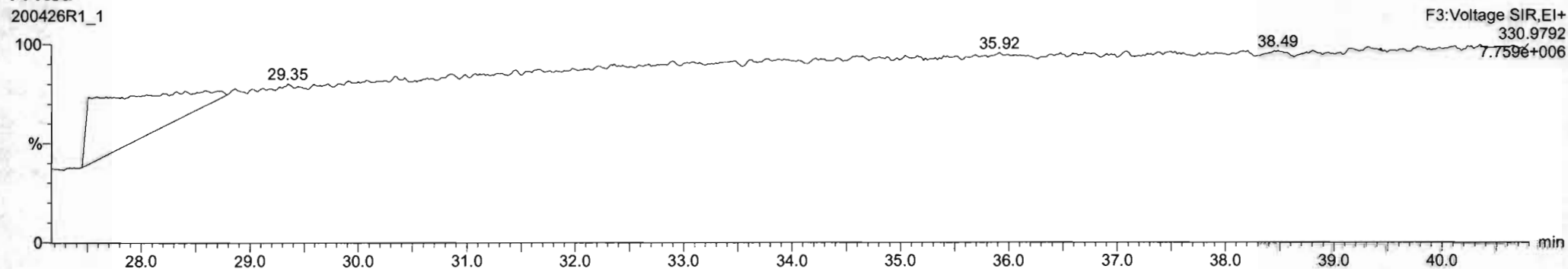
**PCB-34**



**13C-PCB-28**

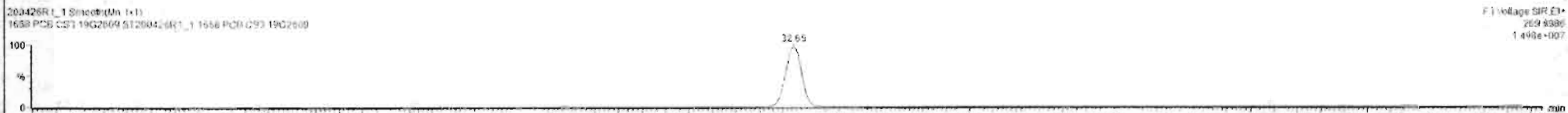
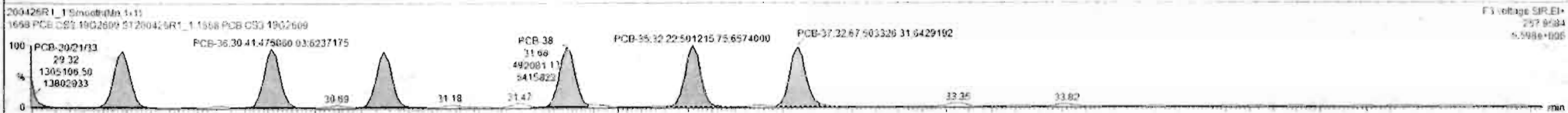
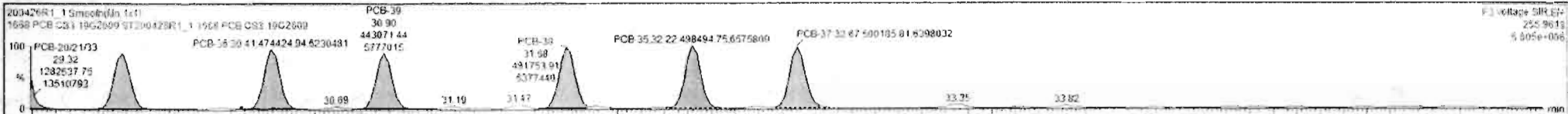


**PFK3a**



#	Name	Resp	RA	n/y	RRF	wtVal	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
227	227 3rd Fraction Tri-PCBs				6.7088	1.000	0.00		0.000		NO	510.6		0.378	918.6
228	228 Total Tetra-PCBs				0.9689	1.000	0.00		0.000		NO	2355		0.407	2355

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc	
1	18 PCB-34	27.11	27.51	2.749e5	3.237e5		1.040	0.95	NO	52.996	52.996
2	19 PCB-23	27.60	27.60	2.950e5	2.981e5		1.040	0.96	NO	59.754	59.754
3	20 PCB-29	27.80	27.85	3.727e5	3.790e5		1.040	0.90	NO	56.724	56.724
4	21 PCB-26	28.07	28.07	4.012e5	4.105e5		1.040	0.96	NO	56.585	56.585
5	22 PCB-25	28.25	28.24	4.076e5	4.132e5		1.040	0.99	NO	58.592	58.592
6	23 PCB-31	28.61	28.59	4.652e5	4.604e5		1.040	0.97	NO	58.567	58.567
7	24 PCB-28	28.72	28.70	4.696e5	4.737e5		1.040	0.99	NO	56.484	56.484
8	25 PCB-20/21/33	28.33	29.32	1.203e6	1.305e6		1.040	0.95	NO	179.52	179.52
9	26 PCB-32	29.78	29.76	4.475e5	4.565e5		1.040	0.98	NO	57.341	57.341
10	27 PCB-36	30.43	30.41	4.744e5	4.789e5		1.040	1.00	NO	52.049	52.049
11	28 PCB-39	30.90	30.90	4.431e5	4.500e5		1.040	0.99	NO	52.625	52.625
12	30 PCB-38	31.70	31.68	4.918e5	4.921e5		1.040	1.00	NO	54.779	54.779
13	30 PCB-35	32.22	32.22	4.985e5	5.012e5		1.040	1.00	NO	57.554	57.554



Custom Reporting: Select reports to generate

200426R1\_1

CAP NUM

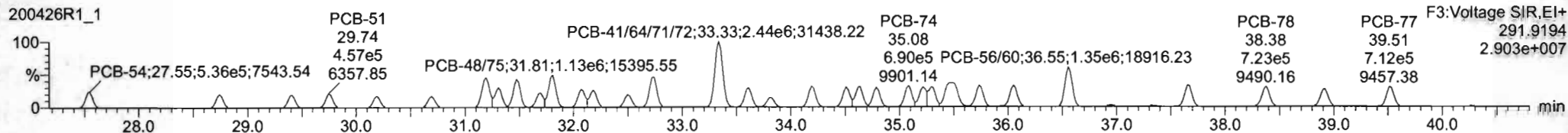
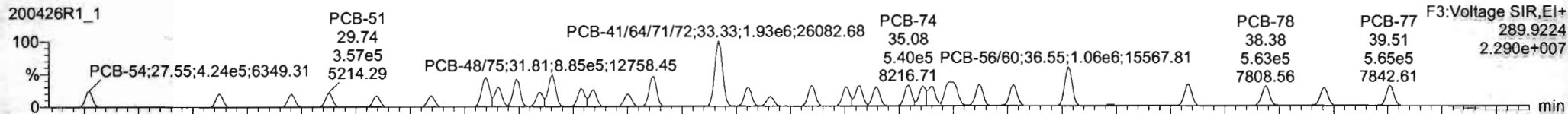
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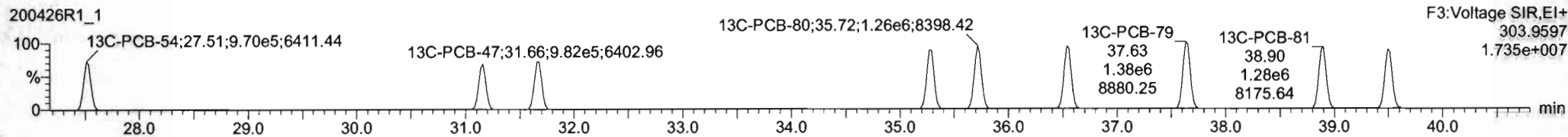
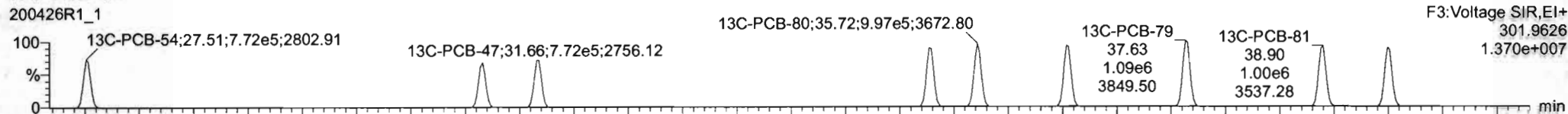
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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

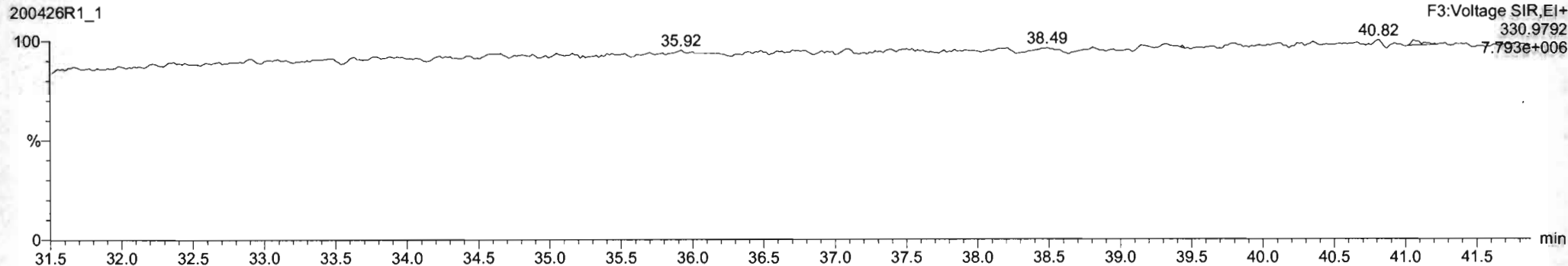
PCB-54



13C-PCB-54



PFK3b



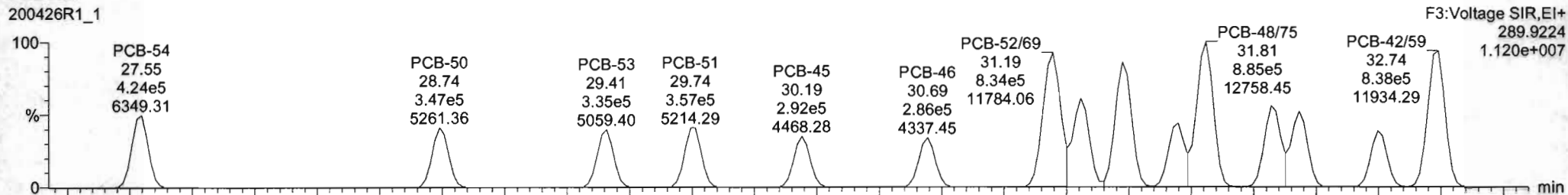
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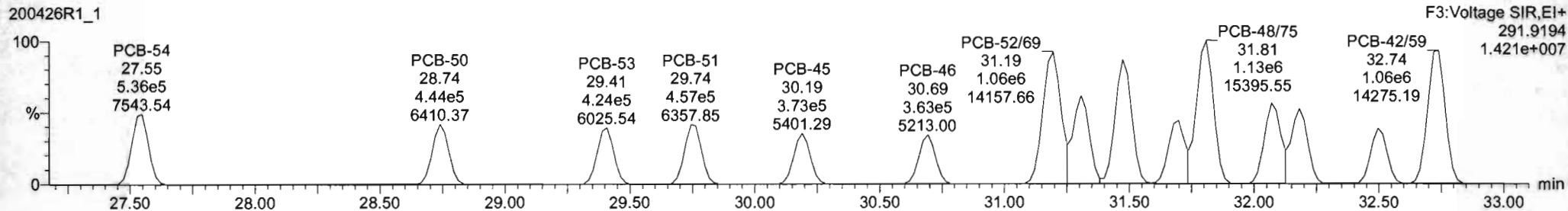
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PCB-50

200426R1\_1



200426R1\_1

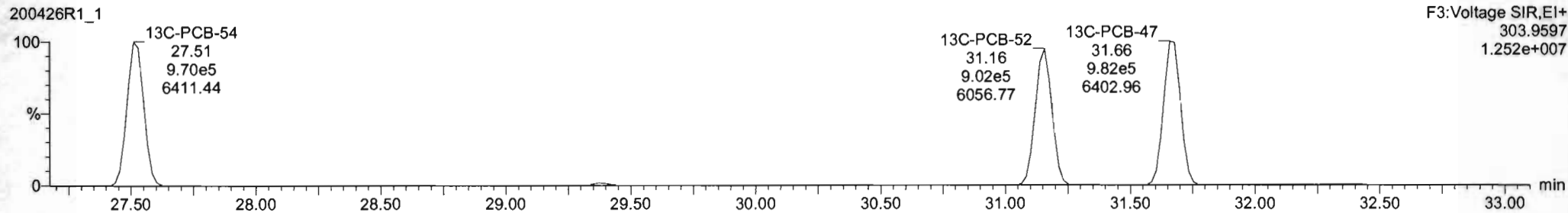


13C-PCB-52

200426R1\_1



200426R1\_1

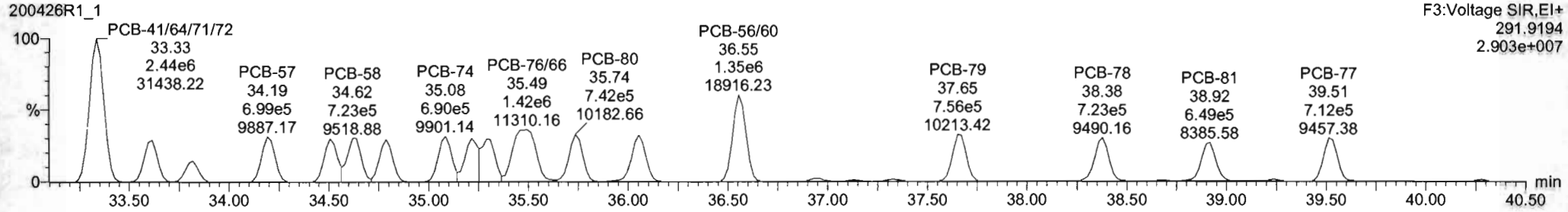
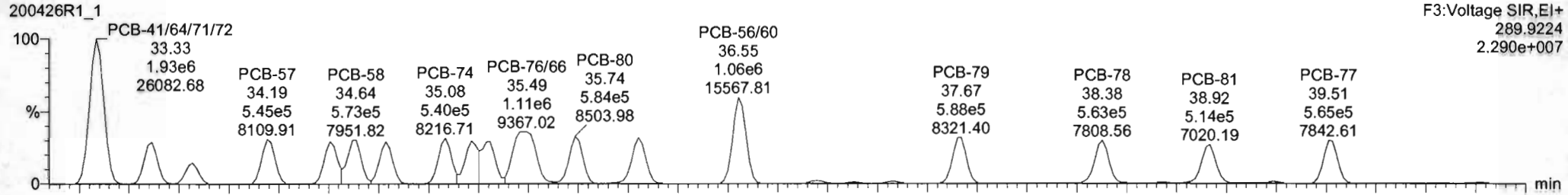


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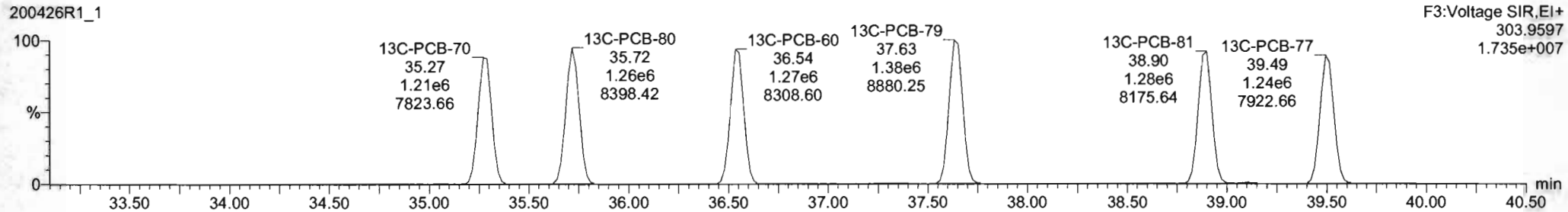
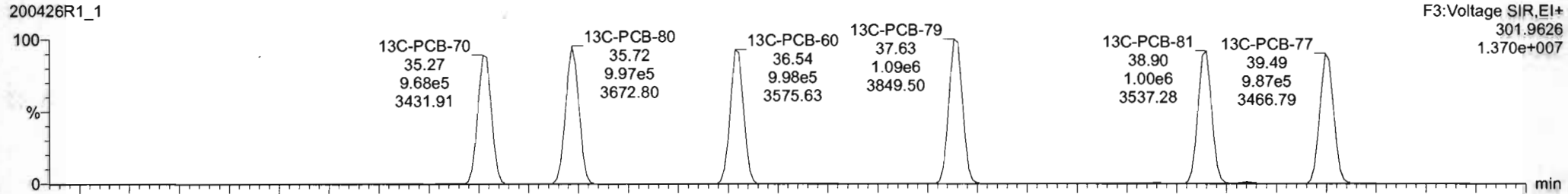
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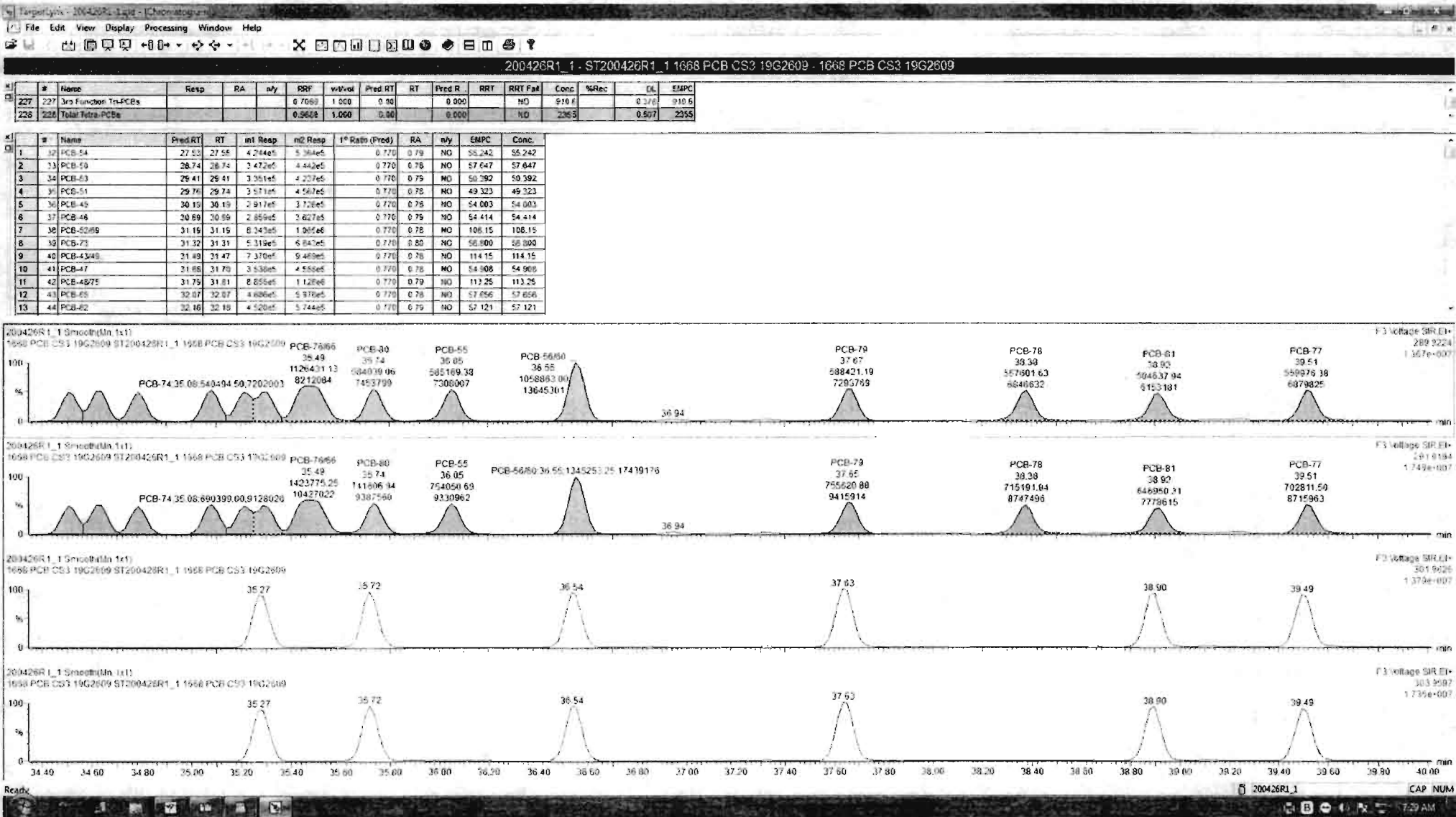
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PCB-68



13C-PCB-60





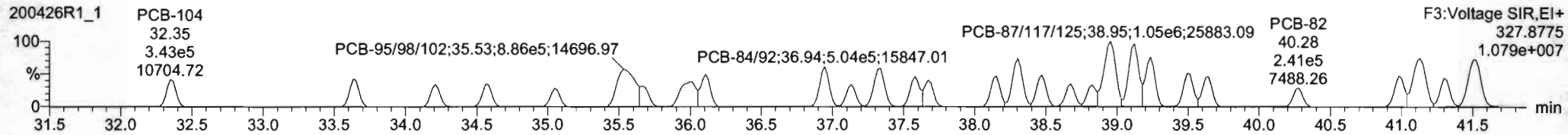
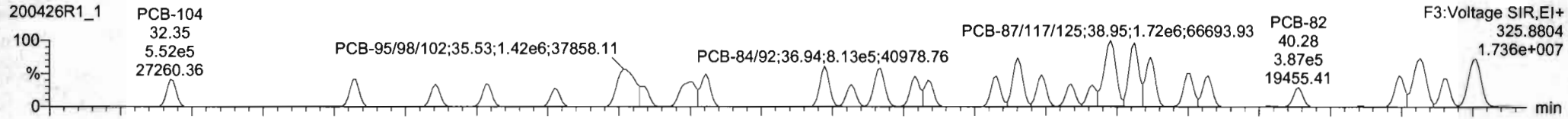


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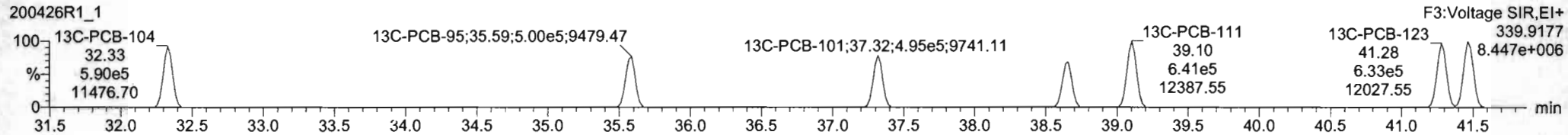
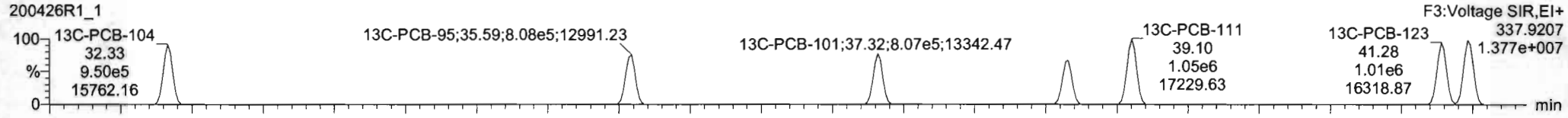
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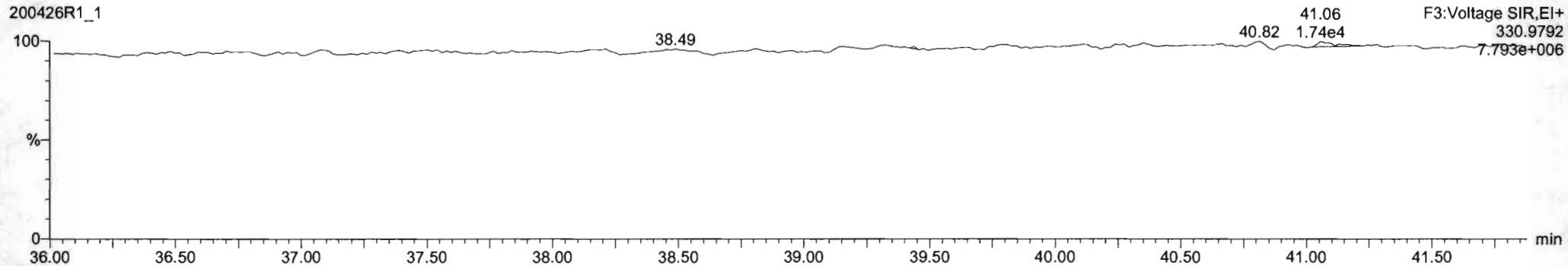
**PCB-104**



**13C-PCB-104**



**PFK3c**



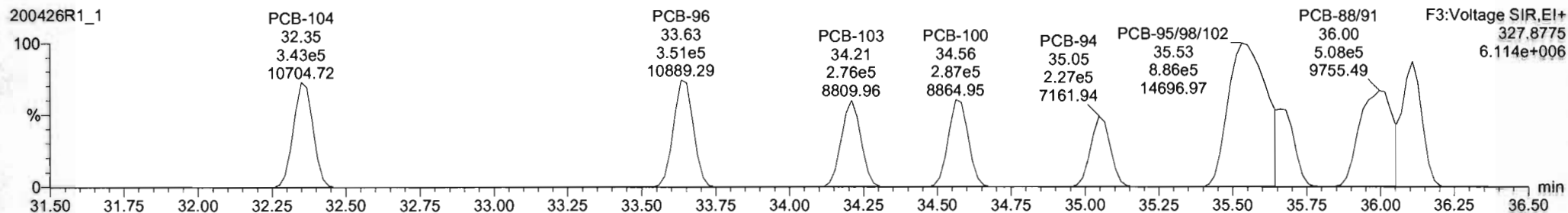
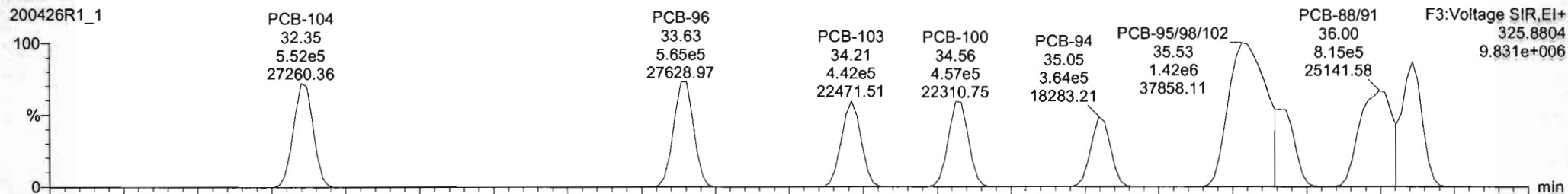
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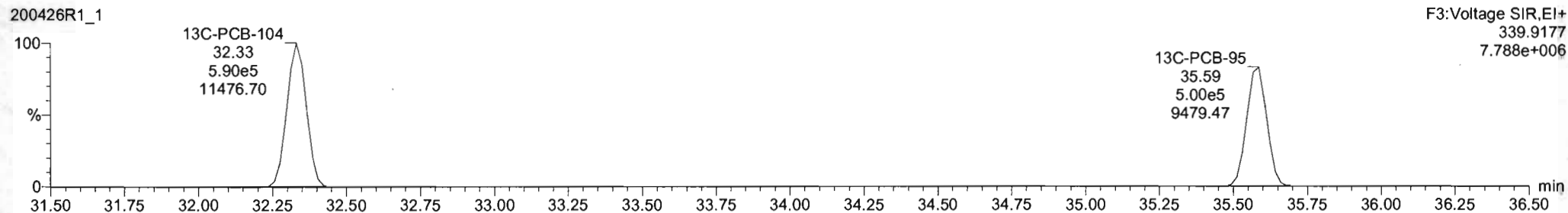
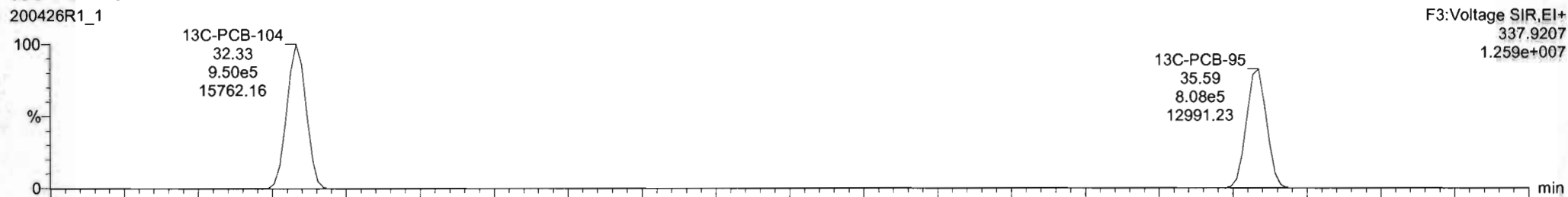
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**PCB-96**



**13C-PCB-95**



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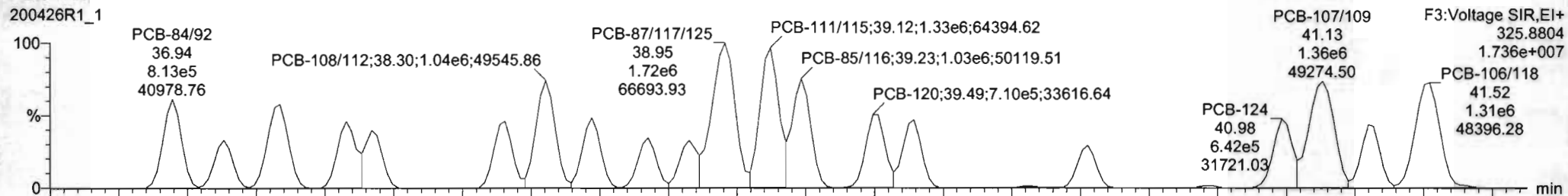
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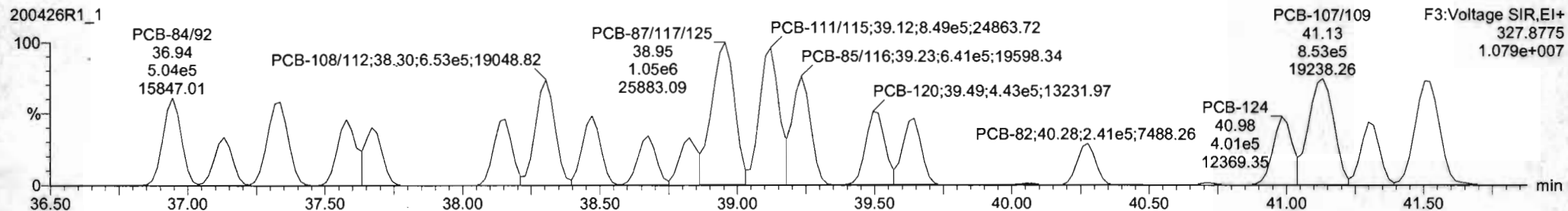
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**PCB-119**

200426R1\_1

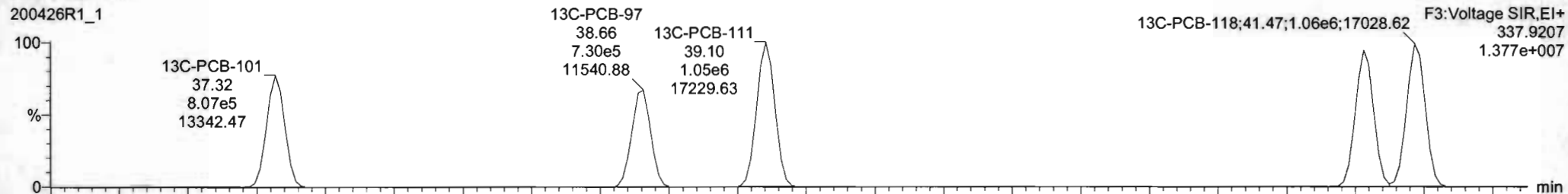


200426R1\_1

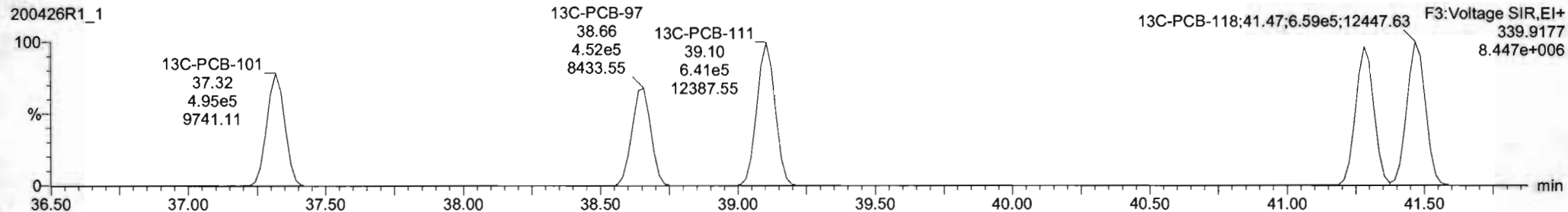


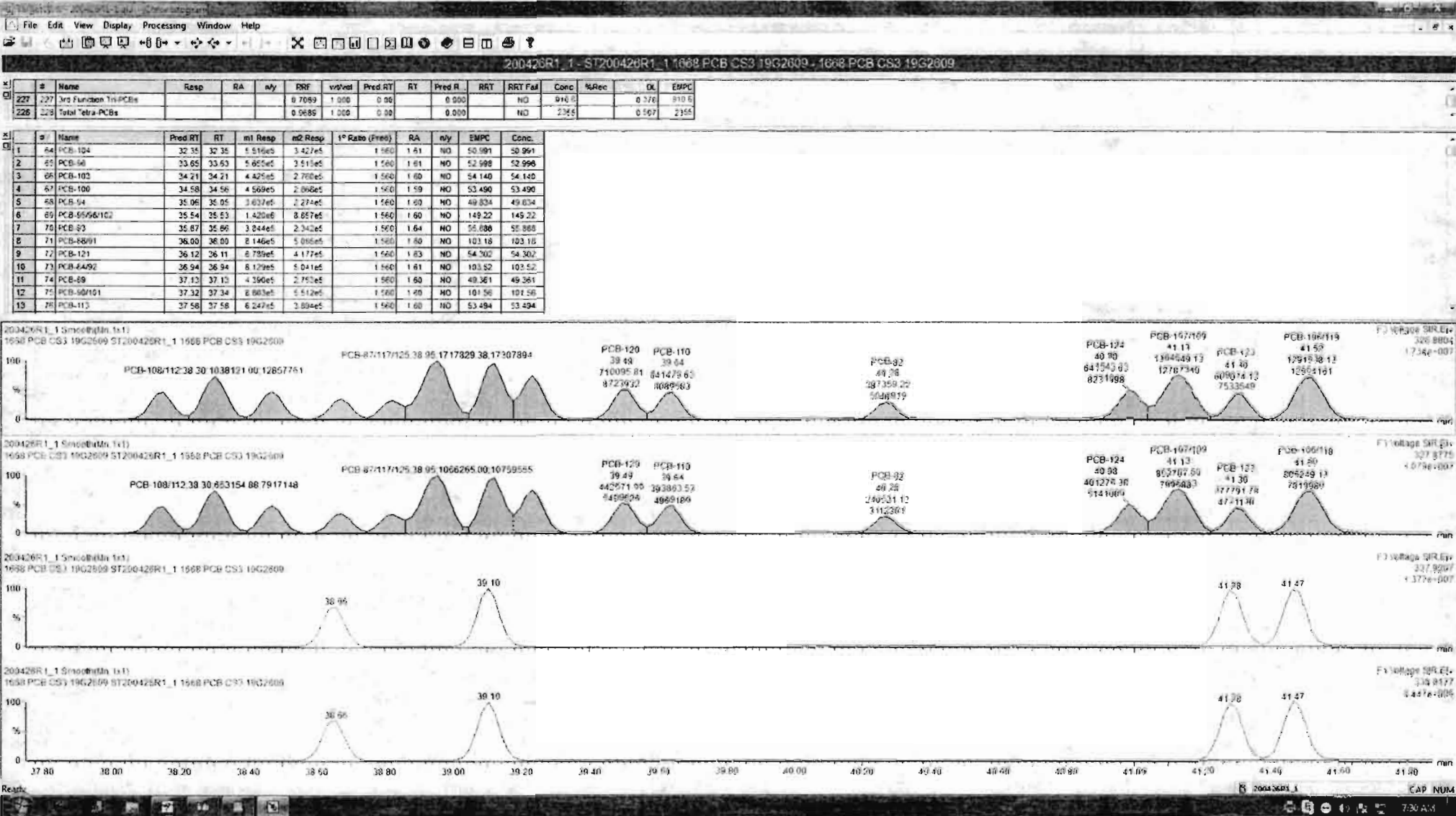
**13C-PCB-111**

200426R1\_1



200426R1\_1





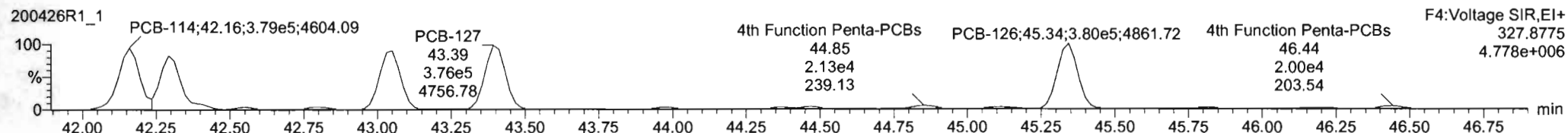
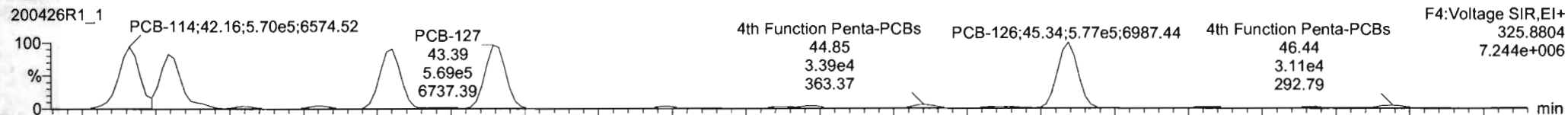
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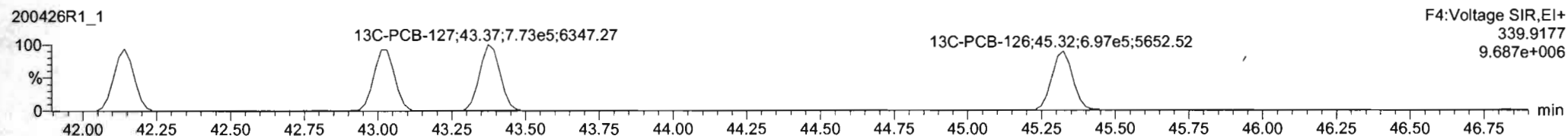
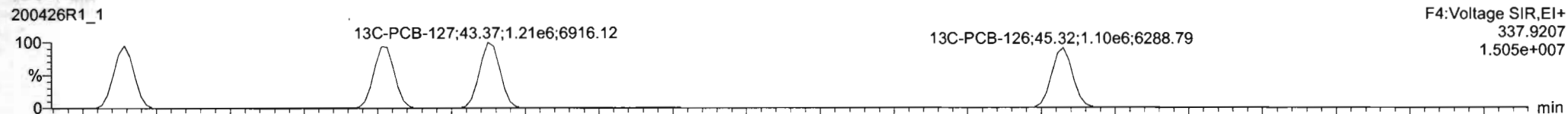
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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

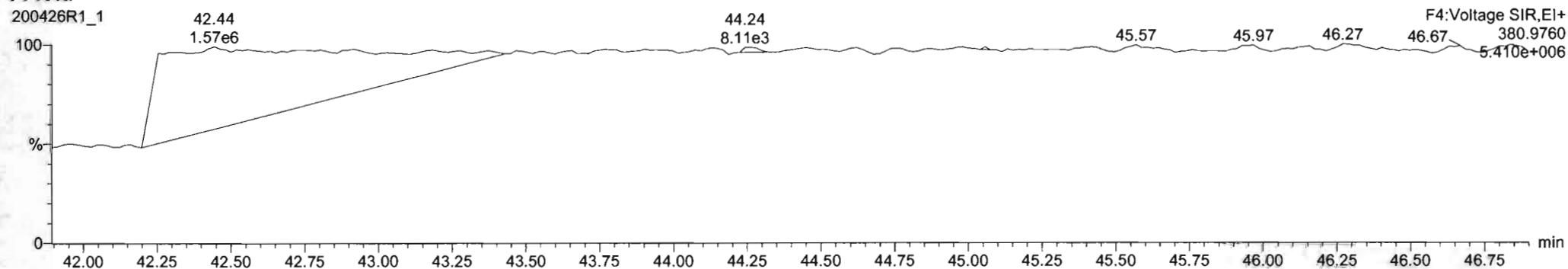
**PCB-114**



**13C-PCB-114**

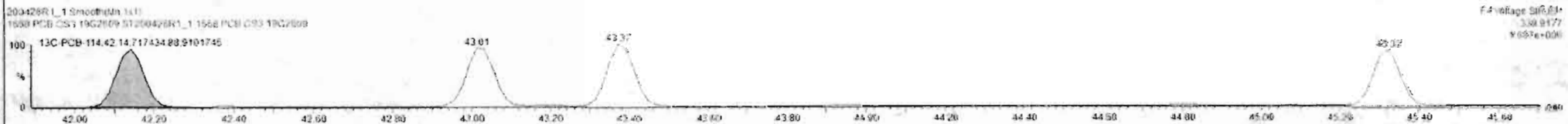


**PFK4a**



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	4th Function Hexa-PCBs				0.8583	1.000	0.90		0.000		NO	281.0		0.101	281.0
231	3rd Function Hexa-PCBs				0.9107	1.000	0.90		0.000		NO	746.8		0.0316	746.8

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	93 PCB-114	42.16	42.16	5.581e5	3.715e5	1.500	1.50	NO	58.046	58.046
2	94 PCB-122	42.29	42.29	4.800e5	3.136e5	1.500	1.50	NO	58.065	58.065
3	95 PCB-105	43.05	43.05	5.363e5	3.624e5	1.500	1.52	NO	55.223	55.223
4	96 PCB-127	43.39	43.35	5.685e5	3.763e5	1.500	1.51	NO	55.629	55.629
5	97 PCB-126	45.33	45.34	5.767e5	3.801e5	1.500	1.52	NO	55.248	55.248



Custom Reporting: Select reports to generate



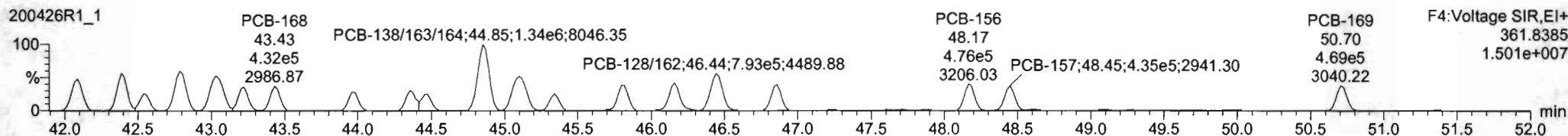
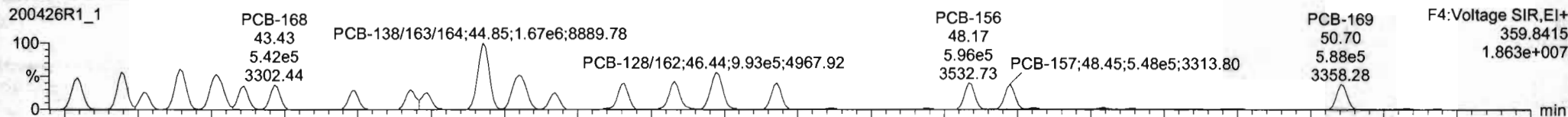
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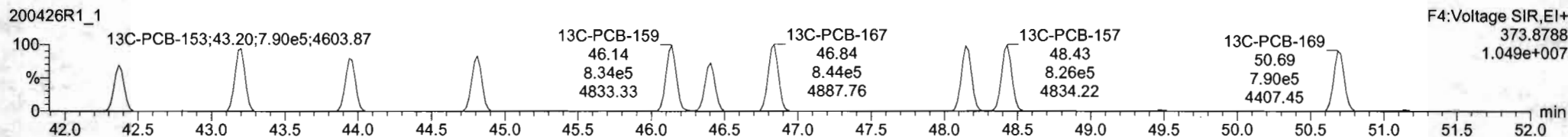
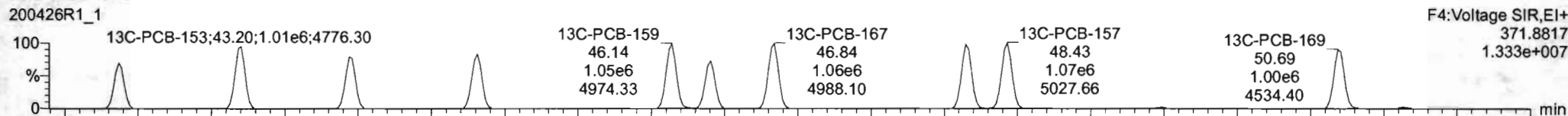
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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

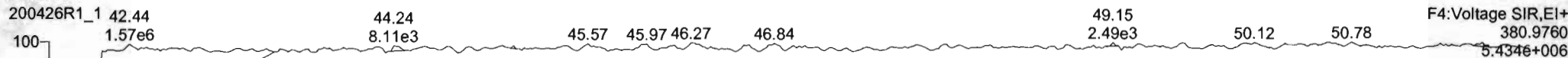
**PCB-134/143**



**13C-PCB-153**



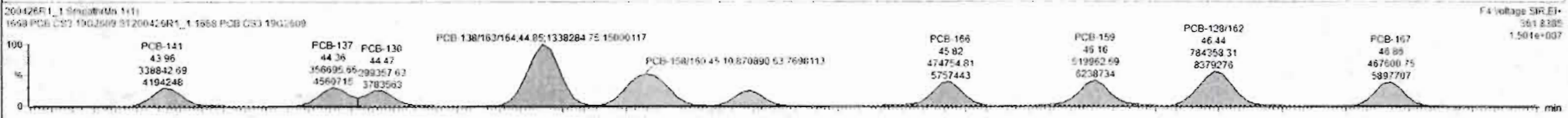
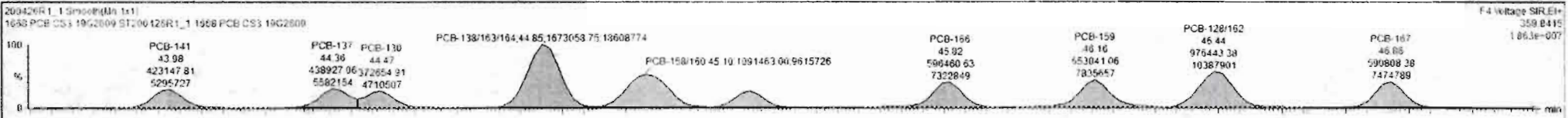
**PFK4b**





#	Name	Resp	RA	n/y	RRF	wt/rd	Pred RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				0.6597	1.000	0.00		0.000		NO	281.0		0.101	261.0
231	231 3rd Function Hexa-PCBs				0.9107	1.000	0.00		0.000		NO	745.8		0.0348	746.8

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/142	42.10	42.02	7.784e5	6.210e5	1.240	1.25	NO	119.31	119.31
2	112 PCB-131/133	42.41	42.39	8.375e5	5.669e5	1.240	1.25	NO	123.74	123.74
3	113 PCB-142	42.56	42.54	3.764e5	2.966e5	1.240	1.27	NO	61.057	61.057
4	114 PCB-146/166	42.81	42.78	1.016e6	8.906e5	1.240	1.28	NO	121.39	121.39
5	115 PCB-132/161	43.05	43.02	1.035e6	8.283e5	1.240	1.25	NO	114.27	114.27
6	116 PCB-153	43.24	43.22	5.303e5	4.265e5	1.240	1.24	NO	53.215	53.215
7	117 PCB-156	43.45	43.43	5.422e5	4.321e5	1.240	1.25	NO	54.060	54.060
8	118 PCB-141	43.96	43.96	4.271e5	3.388e5	1.240	1.25	NO	52.753	52.753
9	119 PCB-137	44.36	44.36	4.309e5	3.567e5	1.240	1.23	NO	58.544	58.544
10	129 PCB-130	44.45	44.47	3.727e5	2.994e5	1.240	1.25	NO	56.223	56.223
11	121 PCB-138/162/154	44.85	44.85	1.673e6	1.336e6	1.240	1.25	NO	160.77	160.77
12	122 PCB-138/160	45.10	45.10	1.091e6	8.705e5	1.240	1.25	NO	114.90	114.90
13	123 PCB-129	45.36	45.34	3.600e5	2.907e5	1.240	1.27	NO	54.642	54.642



Custom Reporting: Select reports to generate

200426R1\_1 CAP NUM

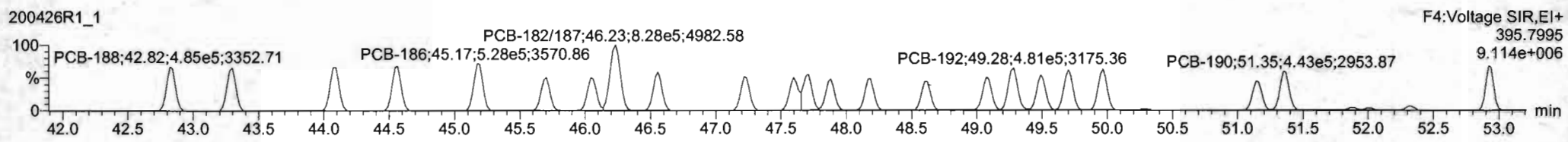
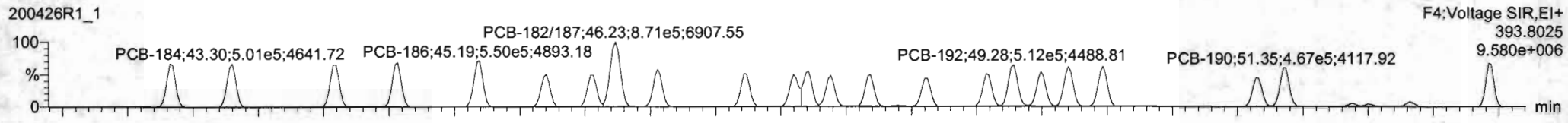
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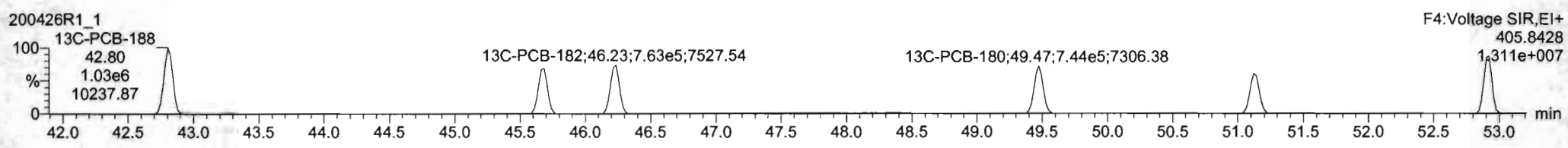
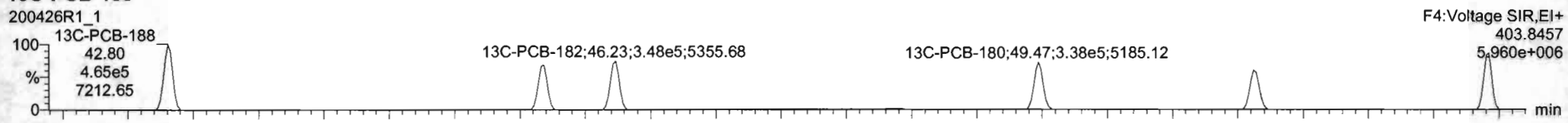
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Printed: Monday, April 27, 2020 07:33:34 Pacific Daylight Time

Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

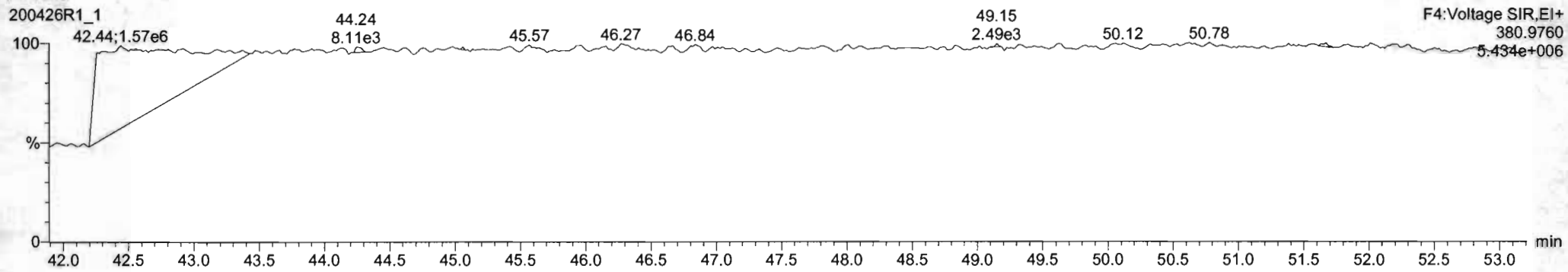
**PCB-188**



**13C-PCB-188**



**PFK4c**



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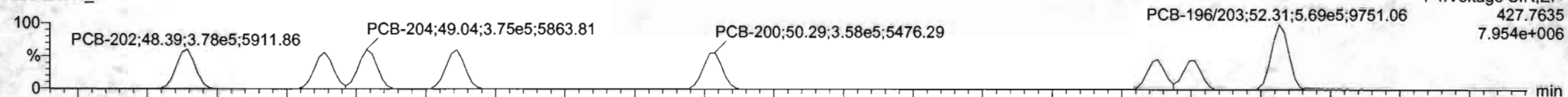
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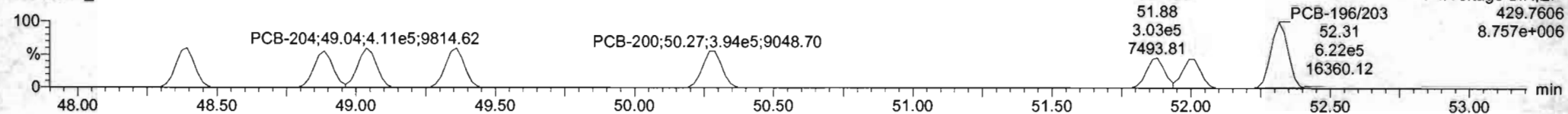
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**PCB-202**

200426R1\_1

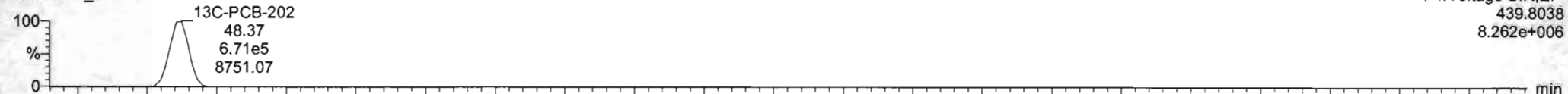


200426R1\_1

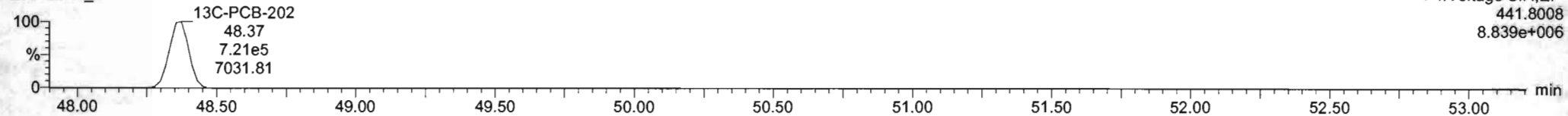


**13C-PCB-202**

200426R1\_1

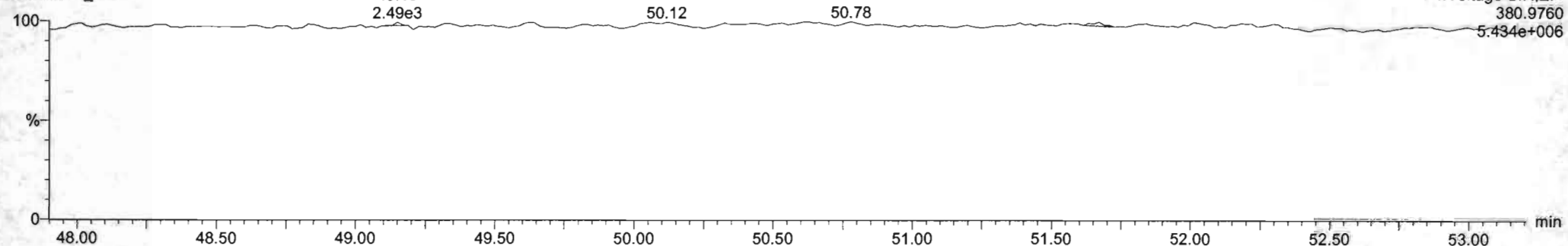


200426R1\_1



**PFK4d**

200426R1\_1

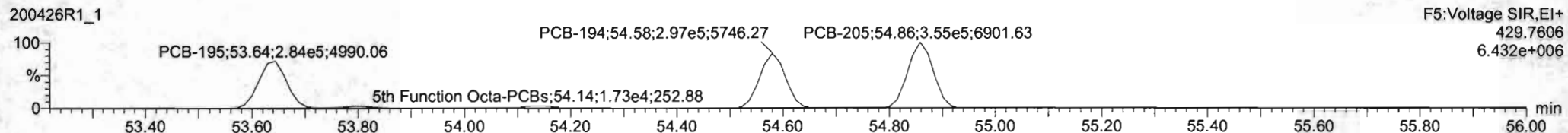
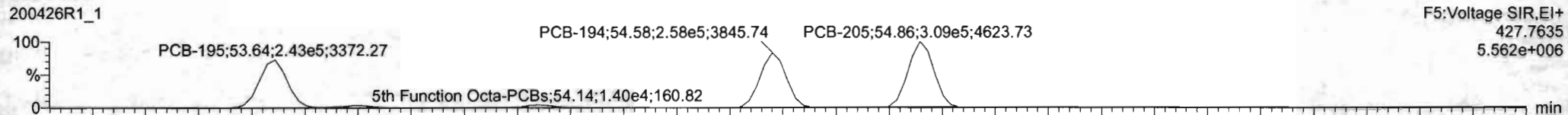


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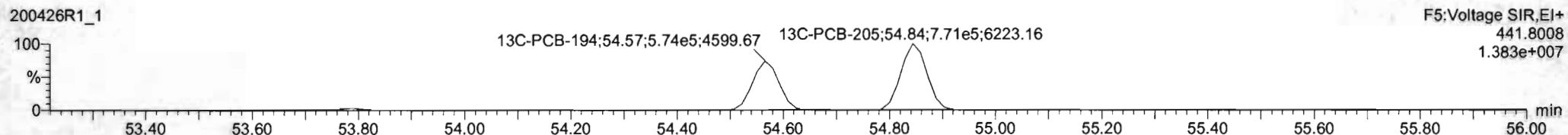
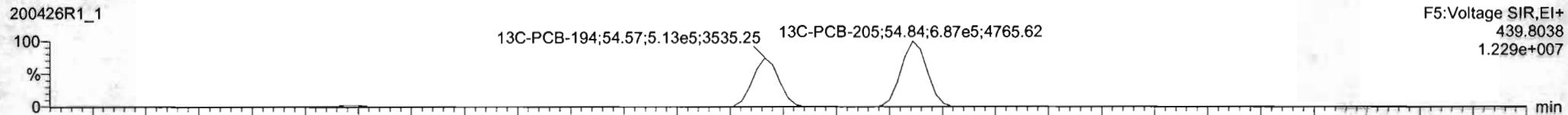
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Name: 200426R1\_1, Date: 26-Apr-2020, Time: 11:43:14, ID: ST200426R1\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

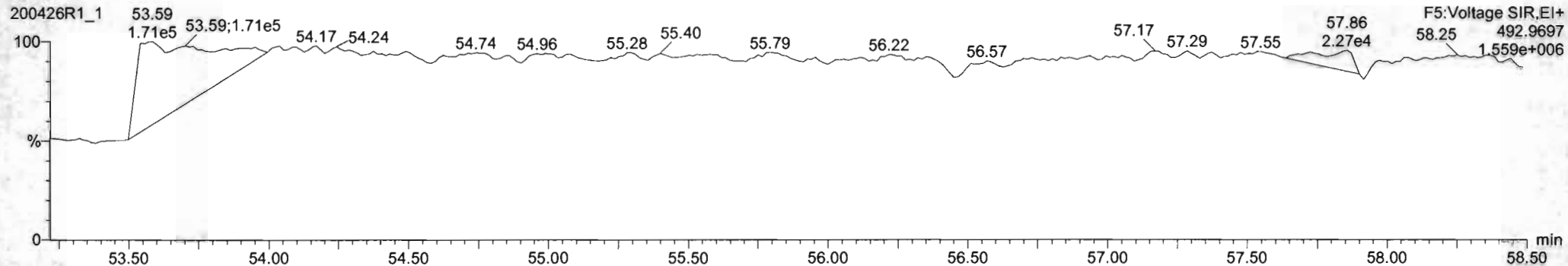
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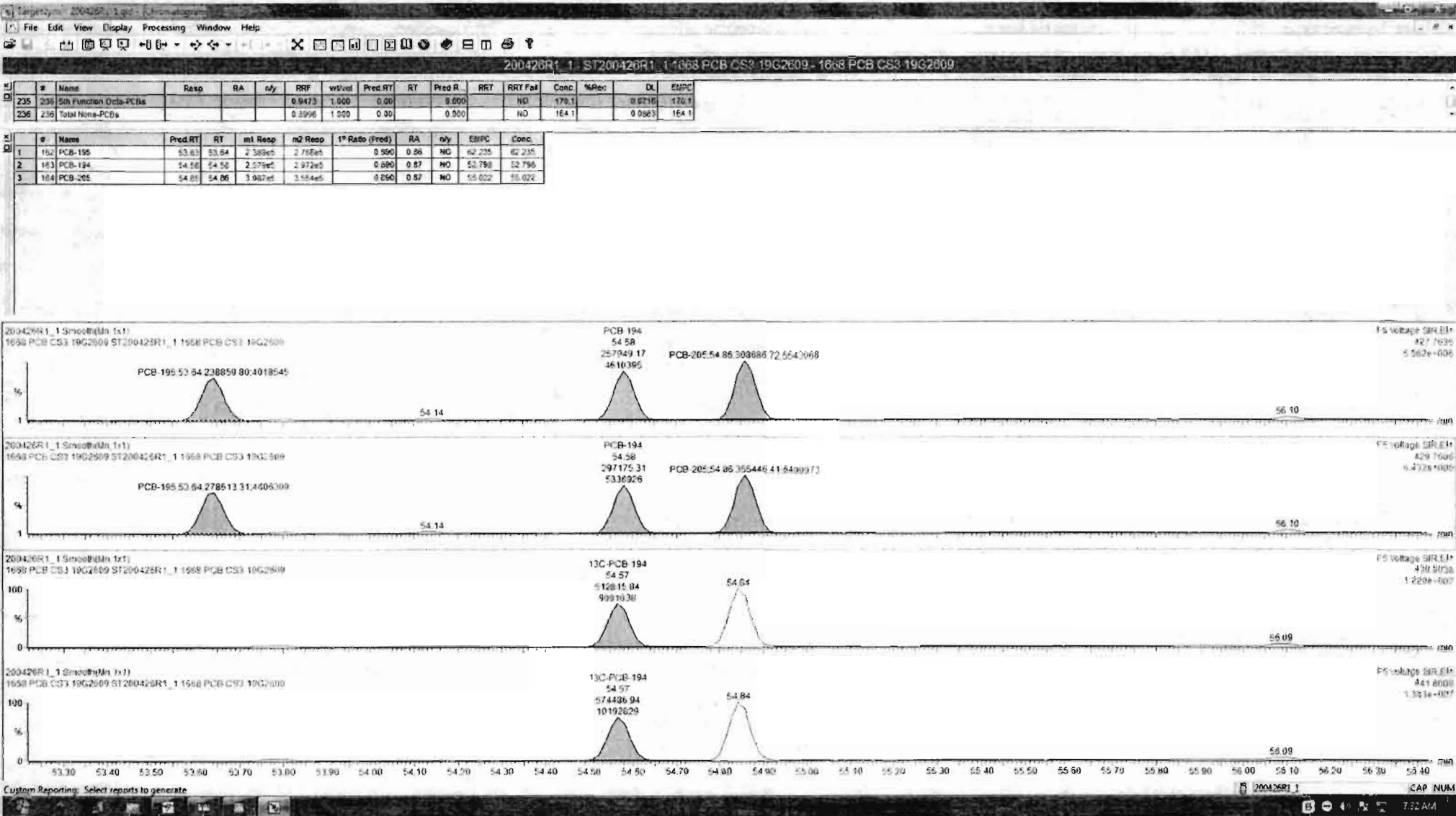


**13C-PCB-194**



**PFK5**





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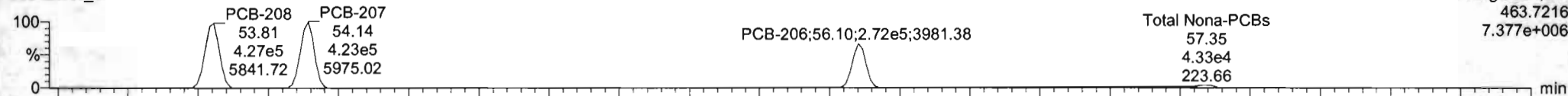
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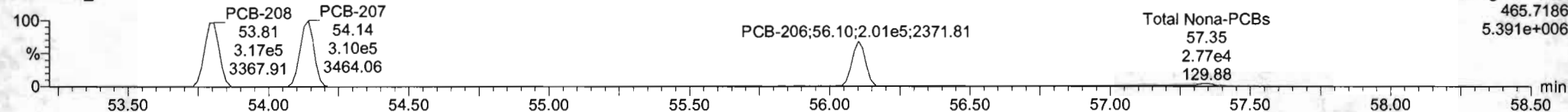
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**PCB-208**

200426R1\_1

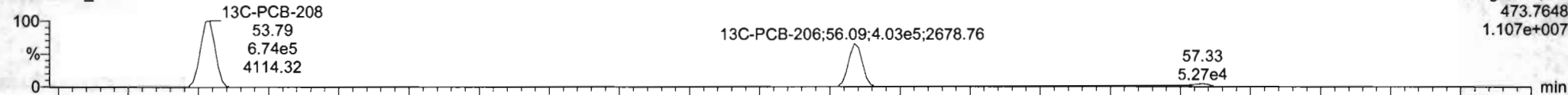


200426R1\_1

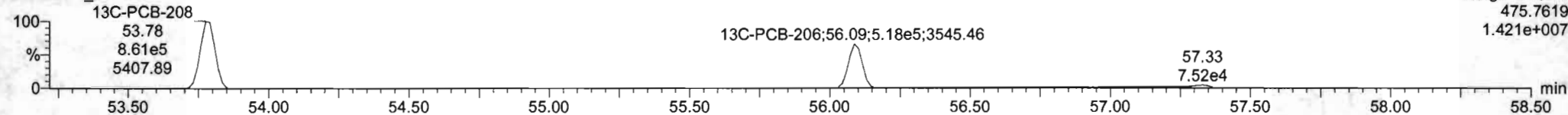


**13C-PCB-208**

200426R1\_1

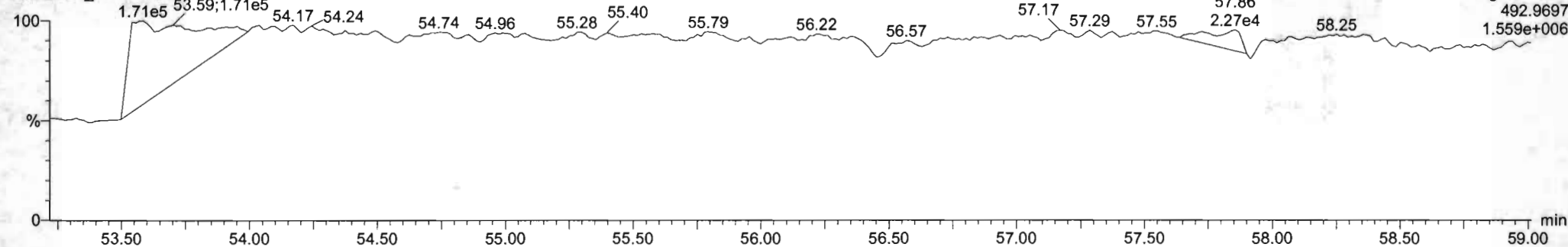


200426R1\_1



**PFK5a**

200426R1\_1

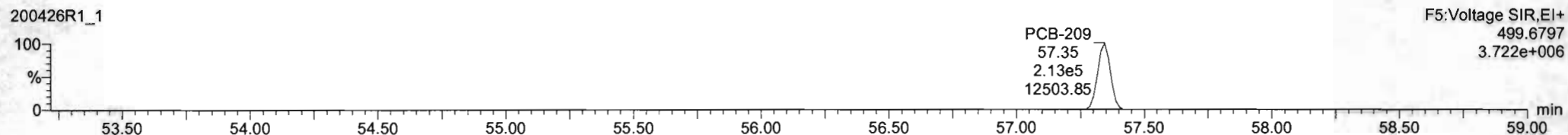
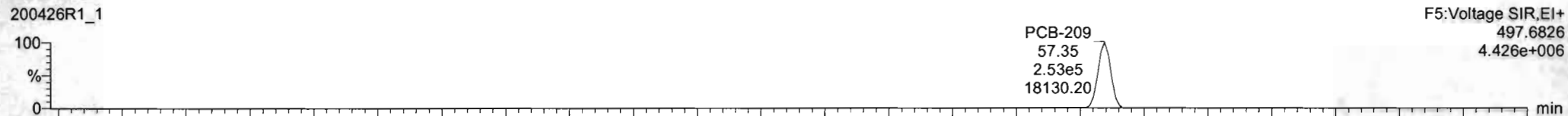


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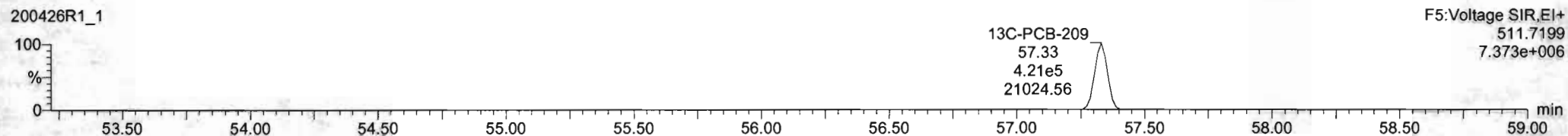
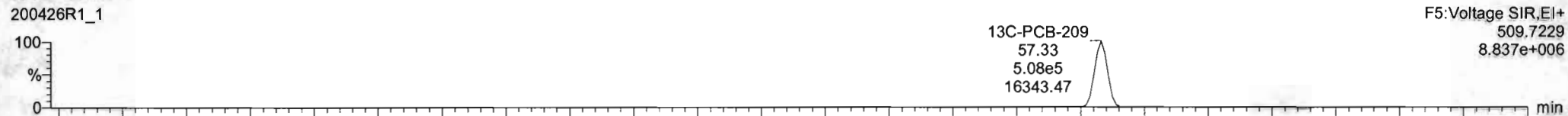
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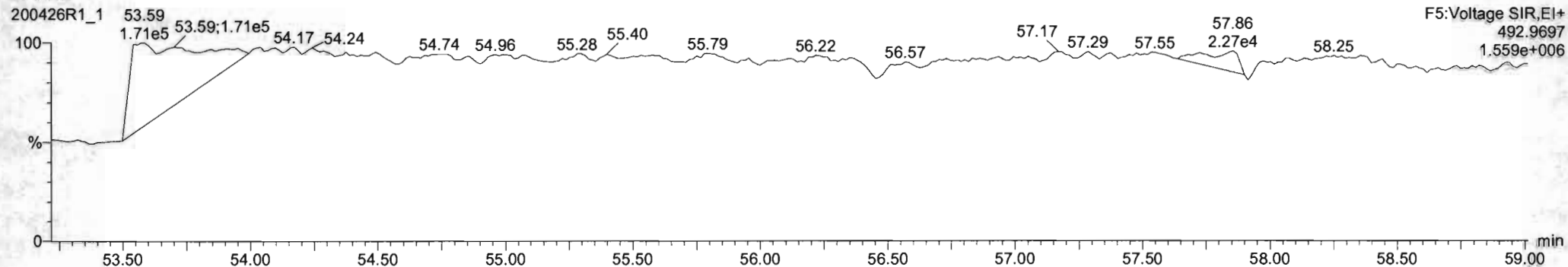
**PCB-209**



**13C-PCB-209**

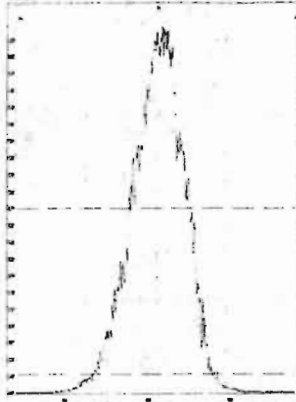


**PFK5b**

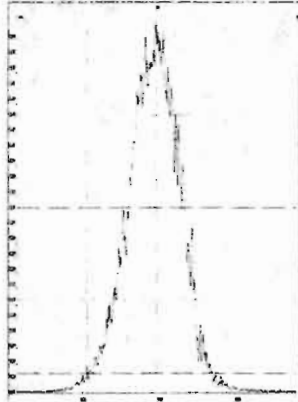


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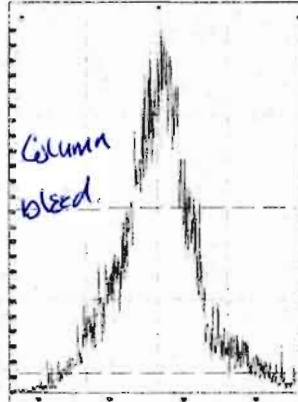
M 168.9888 R 11764



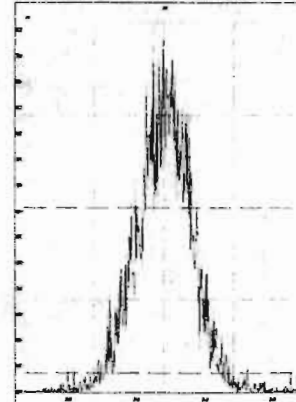
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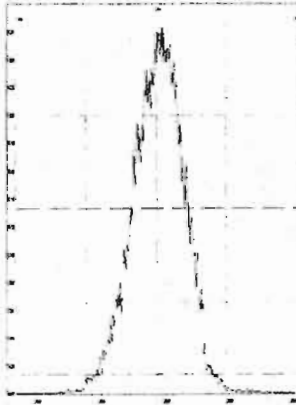
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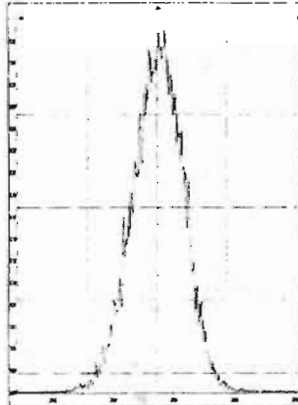
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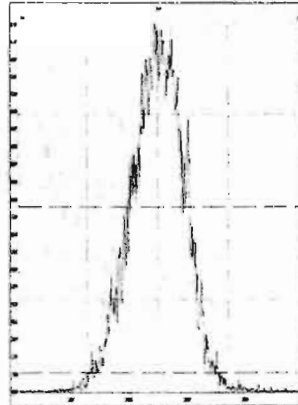
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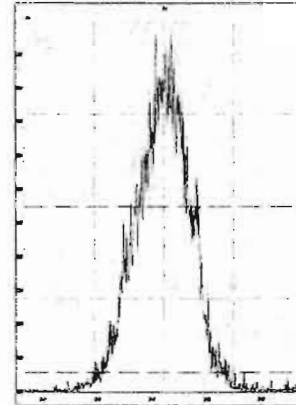
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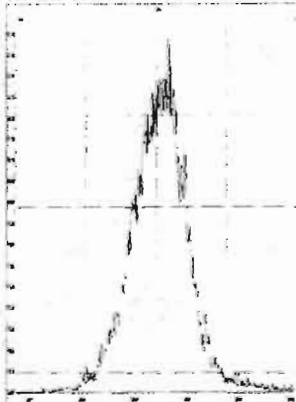
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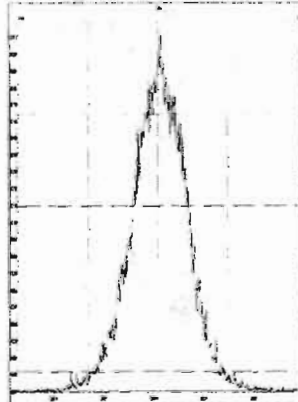
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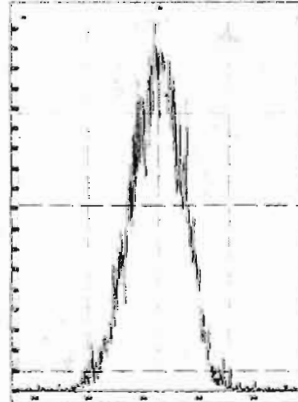
M 268.9824 R 11369



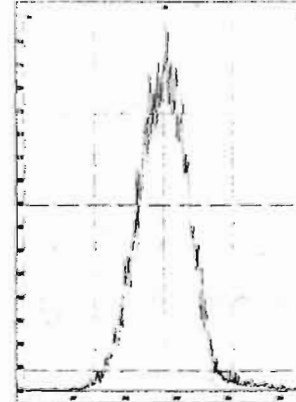
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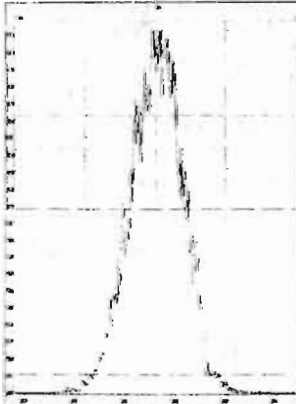
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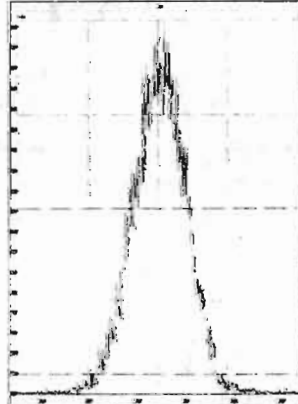
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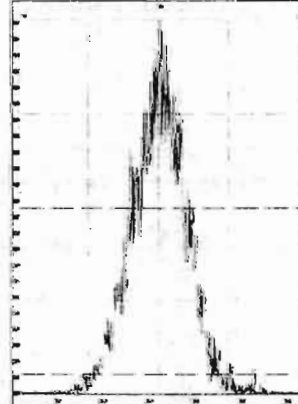
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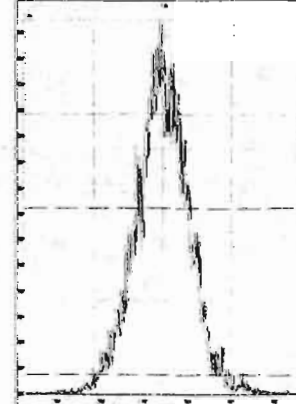
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M 304.9824 R 12732



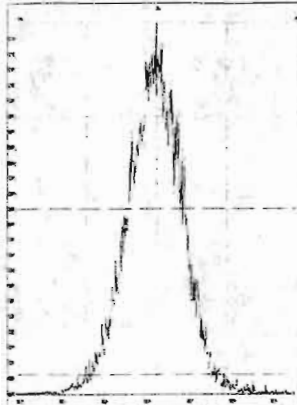
M 318.9792 R 11737



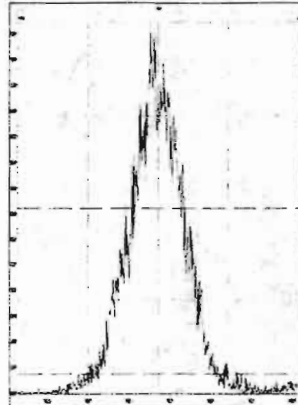


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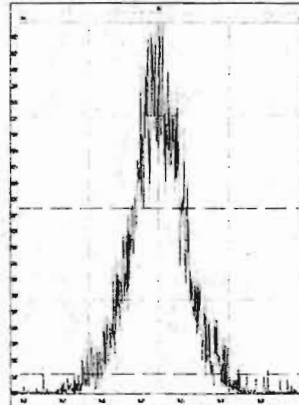
M 330.9792 R 11682



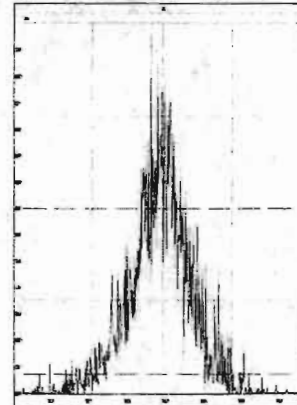
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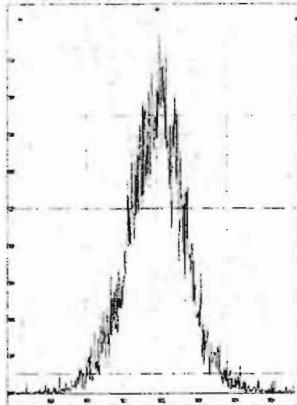
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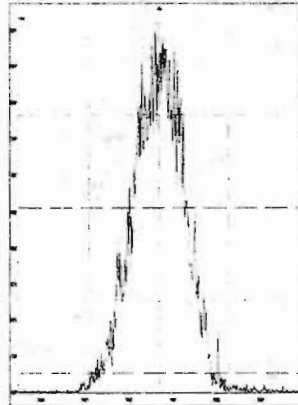
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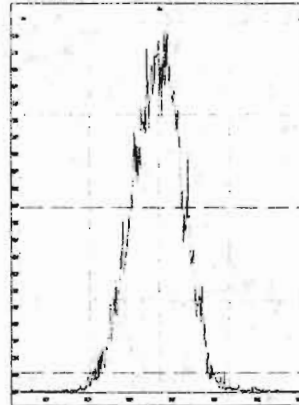
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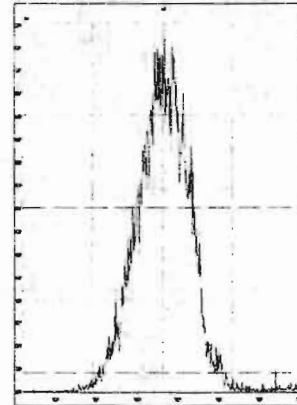
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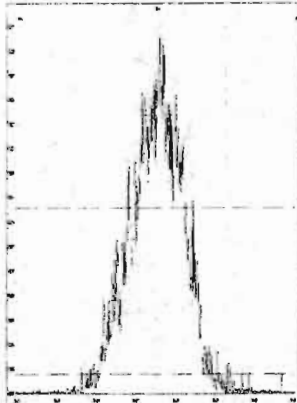
M 330.9792 R 12664



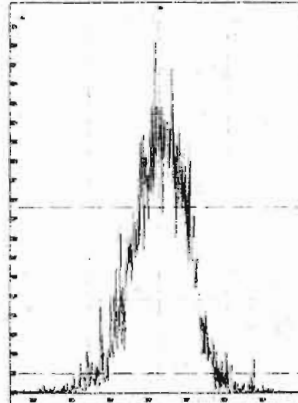
M 342.9792 R 12286



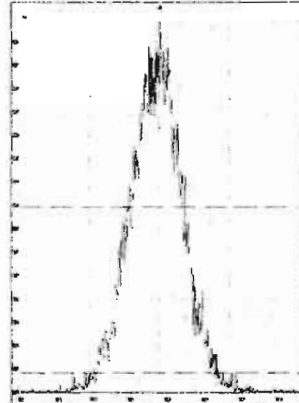
M 354.9792 R 12690



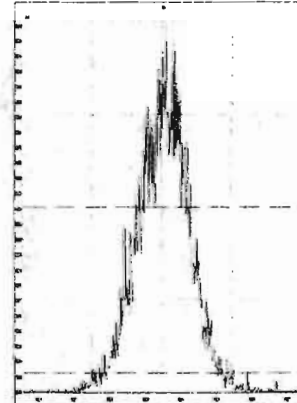
M 366.9792 R 13519



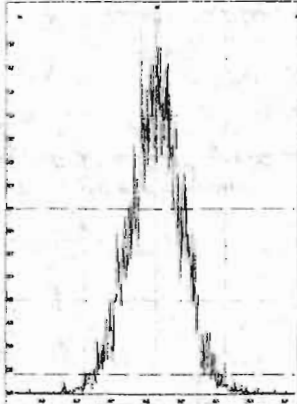
M 380.9760 R 12395



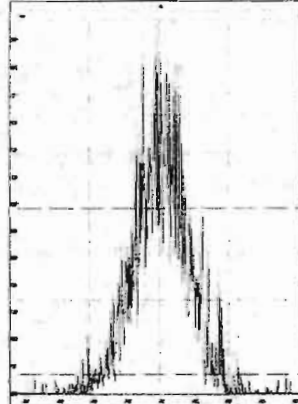
M 392.9760 R 12259



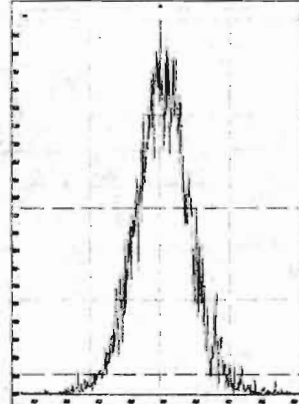
M 404.9760 R 12376



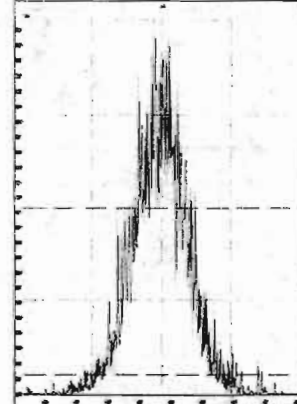
M 416.9760 R 15030



M 430.9728 R 12661

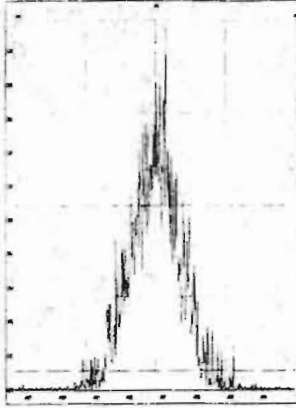


M 442.9728 R 12891

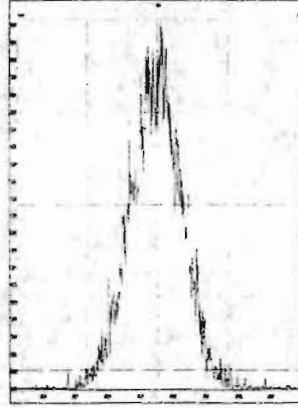


Printed: Sunday, April 26, 2020 21:58:33 Pacific Daylight Time

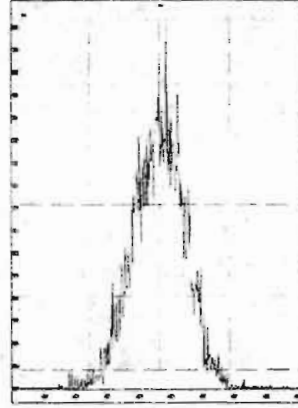
M 416.9760 R 13612



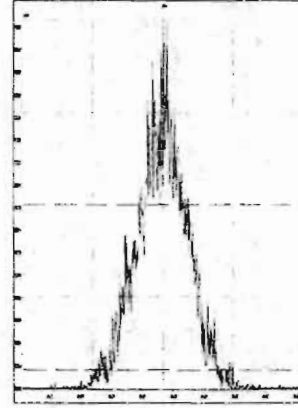
M 430.9728 R 12395



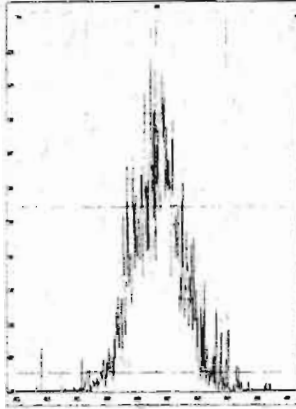
M 442.9728 R 13303



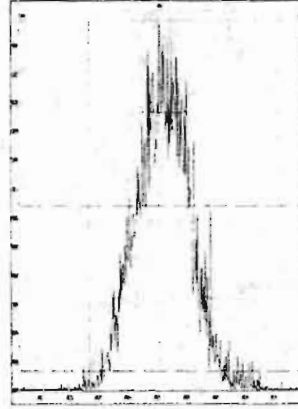
M 454.9728 R 13360



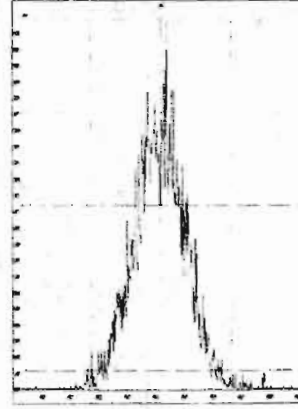
M 466.9728 R 16182



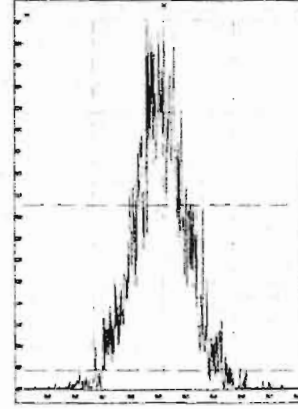
M 480.9696 R 12416



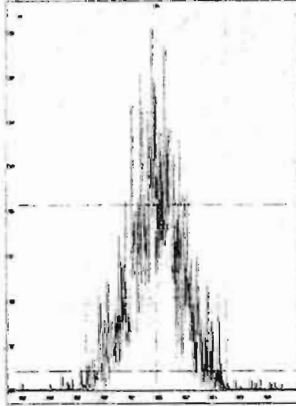
M 492.9696 R 13106



M 504.9696 R 13803



M 516.9697 R 16182



## HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200426R2-1

Reviewed By: GT 04/28/2020

*Initials & Date*

End Calibration ID: NA

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

Mass resolution ≥

5k     6-8K     8K     10K  
 1614    1699    429    1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

**Comments:**

⊗ BEG. & END RES CHECK CONTAINED 1 MASS EFFECTED BY COLUMN BLEED

Dataset: U:\VG12.PRO\Results\200426R2\200426R2-1.qld

Last Altered: Monday, April 27, 2020 07:28:22 Pacific Daylight Time  
Printed: Monday, April 27, 2020 07:29:13 Pacific Daylight Time

GRB 04/27/2020

CT 04/29/2020

Method: U:\VG12.PRO\MethDB\PCB-209\_ZB1\_4-23-20.mdb 23 Apr 2020 11:56:31  
Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	1.39e6	3.19	NO	1.08	1.000	15.48	15.47	1.001	1.001	NO	53.11	106 <sup>75-125%</sup>	0.00501	53.11
2	2 PCB-2	1.33e6	3.23	NO	1.03	1.000	17.88	17.88	0.988	0.988	NO	55.29	111	0.00508	55.29
3	3 PCB-3	1.36e6	3.20	NO	1.08	1.000	18.12	18.11	1.001	1.001	NO	53.83	108	0.00483	53.83
4	4 PCB-4/10	1.54e6	1.48	NO	0.897	1.000	19.53	19.52	1.005	1.004	NO	118.5	118	0.0262	118.5
5	5 PCB-7/9	1.80e6	1.50	NO	0.715	1.000	21.32	21.32	1.002	1.002	NO	114.8	115	0.0211	114.8
6	6 PCB-6	9.35e5	1.51	NO	0.729	1.000	21.96	21.97	1.033	1.033	NO	58.36	117	0.0207	58.36
7	7 PCB-5/8	1.86e6	1.49	NO	0.722	1.000	22.37	22.38	1.052	1.052	NO	117.3	117	0.0209	117.3
8	8 PCB-14	9.12e5	1.51	NO	0.753	1.000	23.53	23.52	0.952	0.952	NO	58.95	118	0.0212	58.95
9	9 PCB-11	9.75e5	1.50	NO	0.834	1.000	24.74	24.73	1.001	1.001	NO	56.88	114	0.0191	56.88
10	10 PCB-12/13	1.76e6	1.50	NO	0.733	1.000	25.10	25.10	1.016	1.016	NO	116.9	117	0.0218	116.9
11	11 PCB-15	9.18e5	1.51	NO	0.782	1.000	25.45	25.44	1.030	1.030	NO	57.15	114	0.0204	57.15
12	12 PCB-19	6.47e5	1.06	NO	1.06	1.000	23.68	23.68	1.001	1.001	NO	53.11	106	0.0100	53.11
13	13 PCB-30	9.96e5	1.06	NO	1.63	1.000	24.60	24.60	1.040	1.040	NO	53.07	106	0.00649	53.07
14	14 PCB-18	6.68e5	1.06	NO	0.777	1.000	25.37	25.36	0.952	0.952	NO	53.89	108	0.00961	53.89
15	15 PCB-17	6.26e5	1.06	NO	0.734	1.000	25.55	25.55	0.959	0.959	NO	53.49	107	0.0102	53.49
16	16 PCB-24/27	1.76e6	1.06	NO	1.02	1.000	26.14	26.14	0.981	0.981	NO	108.5	109	0.00735	108.5
17	17 PCB-16/32	1.51e6	1.06	NO	0.900	1.000	26.67	26.67	1.001	1.001	NO	105.3	105	0.00831	105.3
18	18 PCB-34	6.76e5	0.98	NO	0.664	1.000	27.49	27.49	0.959	0.959	NO	59.76	120	0.0251	59.76
19	19 PCB-23	6.54e5	1.01	NO	0.616	1.000	27.58	27.57	0.962	0.962	NO	62.30	125	0.0271	62.30
20	20 PCB-29	6.34e5	0.98	NO	0.615	1.000	27.84	27.83	0.971	0.971	NO	60.48	121	0.0271	60.48
21	21 PCB-26	6.77e5	0.99	NO	0.666	1.000	28.05	28.05	0.979	0.979	NO	59.67	119	0.0250	59.67
22	22 PCB-25	6.76e5	0.99	NO	0.650	1.000	28.23	28.22	0.985	0.984	NO	61.04	122	0.0256	61.04
23	23 PCB-31	7.77e5	0.97	NO	0.749	1.000	28.60	28.57	0.998	0.997	NO	60.88	122	0.0222	60.88
24	24 PCB-28	7.55e5	0.99	NO	0.775	1.000	28.70	28.68	1.001	1.001	NO	57.19	114	0.0215	57.19
25	25 PCB-20/21/33	2.01e6	0.98	NO	0.669	1.000	29.31	29.30	1.023	1.022	NO	176.5	118	0.0249	176.5
26	26 PCB-22	7.28e5	0.99	NO	0.731	1.000	29.77	29.76	1.038	1.038	NO	58.41	117	0.0228	58.41
27	27 PCB-36	6.96e5	0.99	NO	0.786	1.000	30.41	30.39	0.932	0.932	NO	58.10	116	0.0236	58.10
28	28 PCB-39	6.32e5	0.99	NO	0.730	1.000	30.88	30.88	0.946	0.946	NO	56.83	114	0.0254	56.83
29	29 PCB-38	6.78e5	0.98	NO	0.772	1.000	31.68	31.66	0.971	0.970	NO	57.62	115	0.0240	57.62
30	30 PCB-35	6.70e5	0.99	NO	0.747	1.000	32.20	32.20	0.987	0.987	NO	58.80	118	0.0248	58.80
31	31 PCB-37	6.72e5	0.99	NO	0.756	1.000	32.64	32.65	1.000	1.001	NO	58.25	117	0.0245	58.25

Dataset: U:\VG12.PRO\Results\200426R2\200426R2-1.qld

Last Altered: Monday, April 27, 2020 07:28:22 Pacific Daylight Time

Printed: Monday, April 27, 2020 07:29:13 Pacific Daylight Time

Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 PCB-54	8.04e5	0.78	NO	0.999	1.000	27.51	27.51	1.001	1.001	NO	56.21	112 <u>15-125%</u>	0.0126	56.21
33	33 PCB-50	6.14e5	0.79	NO	0.788	1.000	28.72	28.72	1.045	1.045	NO	54.38	109	0.0160	54.38
34	34 PCB-53	5.68e5	0.79	NO	0.933	1.000	29.39	29.39	0.944	0.944	NO	56.28	113	0.0178	56.28
35	35 PCB-51	6.21e5	0.78	NO	1.02	1.000	29.74	29.74	0.955	0.955	NO	56.13	112	0.0163	56.13
36	36 PCB-45	4.74e5	0.78	NO	0.762	1.000	30.17	30.17	0.969	0.969	NO	57.52	115	0.0218	57.52
37	37 PCB-46	4.51e5	0.78	NO	0.738	1.000	30.67	30.67	0.985	0.985	NO	56.45	113	0.0225	56.45
38	38 PCB-52/69	1.29e6	0.78	NO	1.09	1.000	31.17	31.18	1.001	1.001	NO	109.8	110	0.0153	109.8
39	39 PCB-73	8.28e5	0.79	NO	1.30	1.000	31.30	31.29	1.005	1.005	NO	58.63	117	0.0128	58.63
40	40 PCB-43/49	1.12e6	0.79	NO	0.914	1.000	31.47	31.46	1.011	1.010	NO	113.0	113	0.0182	113.0
41	41 PCB-47	5.43e5	0.78	NO	0.841	1.000	31.68	31.68	1.001	1.001	NO	56.54	113	0.0193	56.54
42	42 PCB-48/75	1.33e6	0.79	NO	1.01	1.000	31.79	31.79	1.004	1.004	NO	115.0	115	0.0160	115.0
43	43 PCB-65	6.74e5	0.78	NO	1.05	1.000	32.07	32.05	1.013	1.012	NO	56.00	112	0.0154	56.00
44	44 PCB-62	6.58e5	0.79	NO	1.02	1.000	32.16	32.16	1.016	1.016	NO	56.23	112	0.0159	56.23
45	45 PCB-44	4.67e5	0.79	NO	0.716	1.000	32.49	32.48	1.026	1.026	NO	57.03	114	0.0227	57.03
46	46 PCB-42/59	1.20e6	0.79	NO	0.943	1.000	32.72	32.72	1.033	1.034	NO	111.9	112	0.0172	111.9
47	47 PCB-41/64/71/72	2.72e6	0.79	NO	1.07	1.000	33.31	33.32	1.052	1.052	NO	222.7	111	0.0152	222.7
48	48 PCB-68	6.84e5	0.80	NO	1.09	1.000	33.59	33.60	1.061	1.061	NO	54.84	110	0.0149	54.84
49	49 PCB-40	3.35e5	0.79	NO	0.535	1.000	33.80	33.80	1.067	1.068	NO	54.70	109	0.0304	54.70
50	50 PCB-57	7.36e5	0.79	NO	1.03	1.000	34.17	34.17	0.969	0.969	NO	57.06	114	0.0142	57.06
51	51 PCB-67	6.57e5	0.79	NO	0.985	1.000	34.49	34.49	0.978	0.978	NO	53.47	107	0.0149	53.47
52	52 PCB-58	7.74e5	0.78	NO	1.05	1.000	34.62	34.62	0.982	0.982	NO	58.87	118	0.0139	58.87
53	53 PCB-63	6.61e5	0.79	NO	0.933	1.000	34.77	34.77	0.986	0.986	NO	56.79	114	0.0157	56.79
54	54 PCB-74	7.36e5	0.79	NO	1.03	1.000	35.06	35.07	0.994	0.994	NO	57.40	115	0.0143	57.40
55	55 PCB-61/70	1.34e6	0.79	NO	0.968	1.000	35.29	35.29	1.001	1.001	NO	111.2	111	0.0151	111.2
56	56 PCB-76/66	1.47e6	0.78	NO	1.04	1.000	35.47	35.47	1.006	1.006	NO	112.7	113	0.0141	112.7
57	57 PCB-80	7.85e5	0.78	NO	1.07	1.000	35.71	35.72	1.000	1.001	NO	56.97	114	0.0133	56.97
58	58 PCB-55	7.62e5	0.78	NO	1.05	1.000	36.03	36.03	1.009	1.009	NO	56.64	113	0.0136	56.64
59	59 PCB-56/60	1.32e6	0.79	NO	0.932	1.000	36.53	36.54	1.023	1.023	NO	110.6	111	0.0153	110.6
60	60 PCB-79	7.56e5	0.80	NO	1.06	1.000	37.65	37.65	1.055	1.055	NO	55.75	112	0.0135	55.75
61	61 PCB-78	6.82e5	0.79	NO	1.00	1.000	38.36	38.36	0.987	0.987	NO	57.08	114	0.0156	57.08
62	62 PCB-81	6.34e5	0.79	NO	0.954	1.000	38.90	38.90	1.000	1.000	NO	55.65	111	0.0163	55.65
63	63 PCB-77	6.73e5	0.79	NO	1.07	1.000	39.51	39.51	1.000	1.000	NO	55.10	110	0.0156	55.10
64	64 PCB-104	5.46e5	1.62	NO	1.14	1.000	32.33	32.33	1.001	1.001	NO	50.67	101	0.00931	50.67
65	65 PCB-96	5.37e5	1.62	NO	1.12	1.000	33.63	33.63	1.041	1.041	NO	50.56	101	0.00944	50.56

Dataset: U:\VG12.PRO\Results\200426R2\200426R2-1.qld

Last Altered: Monday, April 27, 2020 07:28:22 Pacific Daylight Time  
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Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
66	66 PCB-103	4.12e5	1.64	NO	0.862	1.000	34.19	34.19	1.058	1.058	NO	50.54	101 <b>15-125%</b>	0.0123	50.54
67	67 PCB-100	4.19e5	1.62	NO	0.903	1.000	34.56	34.56	1.070	1.070	NO	49.06	98.1	0.0117	49.06
68	68 PCB-94	3.28e5	1.62	NO	0.907	1.000	35.04	35.05	0.985	0.985	NO	49.70	99.4	0.0151	49.70
69	69 PCB-95/98/102	1.37e6	1.60	NO	1.18	1.000	35.52	35.53	0.999	0.999	NO	159.0	106	0.0116	159.0
70	70 PCB-93	2.66e5	1.66	NO	0.847	1.000	35.65	35.66	1.002	1.003	NO	43.25	86.5	0.0162	43.25
71	71 PCB-88/91	6.96e5	1.61	NO	0.981	1.000	35.98	36.00	1.012	1.012	NO	97.67	97.7	0.0139	97.67
72	72 PCB-121	6.04e5	1.63	NO	1.54	1.000	36.10	36.09	1.015	1.015	NO	53.83	108	0.00885	53.83
73	73 PCB-84/92	6.93e5	1.62	NO	0.977	1.000	36.92	36.93	0.990	0.990	NO	101.8	102	0.0148	101.8
74	74 PCB-89	4.03e5	1.61	NO	1.11	1.000	37.11	37.11	0.995	0.995	NO	52.05	104	0.0130	52.05
75	75 PCB-90/101	7.83e5	1.60	NO	1.08	1.000	37.30	37.32	1.000	1.001	NO	103.7	104	0.0134	103.7
76	76 PCB-113	5.21e5	1.61	NO	1.46	1.000	37.56	37.56	1.007	1.007	NO	51.34	103	0.00995	51.34
77	77 PCB-99	4.47e5	1.64	NO	1.24	1.000	37.65	37.65	1.009	1.009	NO	51.57	103	0.0117	51.57
78	78 PCB-119	5.20e5	1.64	NO	1.66	1.000	38.15	38.14	0.987	0.987	NO	53.14	106	0.0103	53.14
79	79 PCB-108/112	8.63e5	1.61	NO	1.39	1.000	38.28	38.28	0.991	0.991	NO	105.4	105	0.0123	105.4
80	80 PCB-83	5.27e5	1.66	NO	1.67	1.000	38.47	38.45	0.996	0.995	NO	53.78	108	0.0103	53.78
81	81 PCB-97	3.73e5	1.61	NO	1.25	1.000	38.66	38.66	1.000	1.000	NO	50.59	101	0.0137	50.59
82	82 PCB-86	3.15e5	1.64	NO	1.09	1.000	38.82	38.81	1.005	1.004	NO	48.95	97.9	0.0157	48.95
83	83 PCB-87/117/125	1.47e6	1.63	NO	1.53	1.000	38.93	38.94	1.008	1.008	NO	163.6	109	0.0112	163.6
84	84 PCB-111/115	1.08e6	1.60	NO	1.81	1.000	39.10	39.10	1.012	1.012	NO	101.6	102	0.00947	101.6
85	85 PCB-85/116	8.60e5	1.63	NO	1.32	1.000	39.21	39.22	1.015	1.015	NO	110.7	111	0.0130	110.7
86	86 PCB-120	5.74e5	1.60	NO	1.90	1.000	39.49	39.49	1.022	1.022	NO	51.41	103	0.00904	51.41
87	87 PCB-110	5.23e5	1.63	NO	1.65	1.000	39.64	39.62	1.026	1.026	NO	53.83	108	0.0104	53.83
88	88 PCB-82	3.07e5	1.63	NO	0.779	1.000	40.26	40.26	0.976	0.976	NO	51.23	102	0.0175	51.23
89	89 PCB-124	5.35e5	1.61	NO	1.32	1.000	40.96	40.96	0.993	0.993	NO	52.60	105	0.0103	52.60
90	90 PCB-107/109	1.03e6	1.63	NO	1.30	1.000	41.11	41.11	0.996	0.996	NO	102.9	103	0.0105	102.9
91	91 PCB-123	4.71e5	1.64	NO	1.19	1.000	41.28	41.30	1.000	1.001	NO	51.56	103	0.0115	51.56
92	92 PCB-106/118	1.02e6	1.62	NO	1.22	1.000	41.50	41.50	1.001	1.001	NO	102.8	103	0.0105	102.8
93	93 PCB-114	4.86e5	1.52	NO	0.886	1.000	42.14	42.14	1.000	1.000	NO	58.03	116	0.0244	58.03
94	94 PCB-122	4.04e5	1.52	NO	0.741	1.000	42.27	42.29	1.004	1.004	NO	57.69	115	0.0292	57.69
95	95 PCB-105	4.70e5	1.54	NO	0.850	1.000	43.05	43.03	1.001	1.000	NO	57.02	114	0.0247	57.02
96	96 PCB-127	4.90e5	1.51	NO	0.858	1.000	43.39	43.39	1.000	1.000	NO	57.20	114	0.0246	57.20
97	97 PCB-126	4.78e5	1.52	NO	0.962	1.000	45.31	45.32	1.000	1.000	NO	56.44	113	0.0253	56.44
98	98 PCB-155	3.22e5	1.29	NO	1.01	1.000	36.87	36.85	1.001	1.001	NO	49.61	99.2	0.00714	49.61
99	99 PCB-150	3.46e5	1.31	NO	1.05	1.000	38.13	38.14	1.035	1.035	NO	51.68	103	0.00693	51.68

Dataset: U:\VG12.PRO\Results\200426R2\200426R2-1.qld

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Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
100	1... PCB-152	3.92e5	1.31	NO	1.20	1.000	38.62	38.62	1.049	1.048	NO	51.05	102 <del>75-125%</del>	0.00604	51.05
101	1... PCB-145	3.81e5	1.29	NO	1.17	1.000	39.08	39.08	1.061	1.061	NO	50.85	102	0.00619	50.85
102	1... PCB-136	3.25e5	1.28	NO	1.01	1.000	39.40	39.42	1.070	1.070	NO	50.36	101	0.00720	50.36
103	1... PCB-148	2.60e5	1.30	NO	0.770	1.000	39.53	39.53	1.073	1.073	NO	52.83	106	0.00942	52.83
104	1... PCB-154	2.72e5	1.28	NO	0.862	1.000	40.03	40.05	1.087	1.087	NO	49.28	98.6	0.00841	49.28
105	1... PCB-151	2.34e5	1.30	NO	0.723	1.000	40.68	40.70	1.105	1.105	NO	50.56	101	0.0100	50.56
106	1... PCB-135	2.53e5	1.29	NO	0.836	1.000	40.91	40.91	1.111	1.111	NO	47.34	94.7	0.00867	47.34
107	1... PCB-144	2.61e5	1.31	NO	0.756	1.000	41.02	41.02	1.114	1.114	NO	54.04	108	0.00959	54.04
108	1... PCB-147	2.54e5	1.30	NO	0.789	1.000	41.15	41.17	1.117	1.118	NO	50.26	101	0.00919	50.26
109	1... PCB-139/149	5.83e5	1.31	NO	0.896	1.000	41.43	41.43	1.125	1.125	NO	101.7	102	0.00810	101.7
110	1... PCB-140	2.38e5	1.29	NO	0.769	1.000	41.61	41.62	1.130	1.130	NO	48.44	96.9	0.00943	48.44
111	1... PCB-134/143	6.97e5	1.27	NO	0.653	1.000	42.08	42.07	0.975	0.974	NO	119.9	120	0.0684	119.9
112	1... PCB-131/133	7.47e5	1.26	NO	0.677	1.000	42.39	42.39	0.982	0.982	NO	124.3	124	0.0661	124.3
113	1... PCB-142	3.26e5	1.27	NO	0.614	1.000	42.54	42.54	0.985	0.985	NO	59.75	120	0.0729	59.75
114	1... PCB-146/165	8.97e5	1.26	NO	0.836	1.000	42.79	42.79	0.991	0.991	NO	120.7	121	0.0535	120.7
115	1... PCB-132/161	9.34e5	1.25	NO	0.908	1.000	43.03	43.01	0.997	0.996	NO	115.7	116	0.0493	115.7
116	1... PCB-153	4.86e5	1.26	NO	1.00	1.000	43.22	43.20	1.001	1.000	NO	54.55	109	0.0447	54.55
117	1... PCB-168	4.97e5	1.27	NO	1.00	1.000	43.43	43.43	1.006	1.006	NO	55.68	111	0.0446	55.68
118	1... PCB-141	3.90e5	1.26	NO	0.970	1.000	43.96	43.96	1.000	1.000	NO	55.22	110	0.0571	55.22
119	1... PCB-137	3.65e5	1.25	NO	0.913	1.000	44.36	44.34	1.010	1.009	NO	54.96	110	0.0606	54.96
120	1... PCB-130	3.43e5	1.28	NO	0.803	1.000	44.45	44.45	1.012	1.012	NO	58.73	117	0.0689	58.73
121	1... PCB-138/163/164	1.51e6	1.26	NO	1.21	1.000	44.83	44.85	1.001	1.001	NO	167.9	112	0.0441	167.9
122	1... PCB-158/160	9.35e5	1.27	NO	1.10	1.000	45.08	45.08	1.007	1.006	NO	113.9	114	0.0484	113.9
123	1... PCB-129	3.24e5	1.26	NO	0.779	1.000	45.34	45.32	1.012	1.012	NO	55.88	112	0.0685	55.88
124	1... PCB-166	5.00e5	1.25	NO	1.01	1.000	45.80	45.80	0.993	0.993	NO	57.01	114	0.0465	57.01
125	1... PCB-159	5.39e5	1.25	NO	1.11	1.000	46.14	46.14	1.000	1.000	NO	55.90	112	0.0423	55.90
126	1... PCB-128/162	8.22e5	1.24	NO	0.859	1.000	46.44	46.44	1.007	1.007	NO	110.0	110	0.0546	110.0
127	1... PCB-167	5.03e5	1.27	NO	1.04	1.000	46.84	46.84	1.000	1.000	NO	54.36	109	0.0437	54.36
128	1... PCB-156	5.06e5	1.26	NO	1.08	1.000	48.17	48.17	1.000	1.000	NO	55.15	110	0.0443	55.15
129	1... PCB-157	4.62e5	1.27	NO	0.977	1.000	48.43	48.43	1.000	1.000	NO	54.39	109	0.0482	54.39
130	1... PCB-169	4.78e5	1.26	NO	1.11	1.000	50.70	50.70	1.000	1.000	NO	54.17	108	0.0482	54.17
131	1... PCB-188	4.96e5	1.07	NO	1.27	1.000	42.84	42.82	1.001	1.000	NO	53.02	106	0.0355	53.02
132	1... PCB-184	4.86e5	1.06	NO	1.33	1.000	43.28	43.28	1.011	1.011	NO	49.71	99.4	0.0340	49.71
133	1... PCB-179	4.94e5	1.06	NO	1.25	1.000	44.08	44.07	1.030	1.030	NO	53.58	107	0.0360	53.58

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Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
134	1... PCB-176	4.94e5	1.05	NO	1.22	1.000	44.56	44.55	1.041	1.041	NO	54.71	109 <sup>75-85%</sup>	0.0368	54.71
135	1... PCB-186	5.31e5	1.06	NO	1.31	1.000	45.18	45.17	1.055	1.055	NO	55.06	110	0.0344	55.06
136	1... PCB-178	3.48e5	1.06	NO	0.889	1.000	45.69	45.68	1.067	1.067	NO	52.95	106	0.0506	52.95
137	1... PCB-175	3.42e5	1.04	NO	0.886	1.000	46.04	46.04	1.076	1.076	NO	52.40	105	0.0508	52.40
138	1... PCB-182/187	8.17e5	1.05	NO	1.04	1.000	46.23	46.21	1.080	1.080	NO	106.4	106	0.0432	106.4
139	1... PCB-183	3.90e5	1.07	NO	0.972	1.000	46.57	46.54	1.088	1.087	NO	54.31	109	0.0463	54.31
140	1... PCB-185	3.44e5	1.07	NO	1.35	1.000	47.24	47.22	0.955	0.954	NO	54.22	108	0.0535	54.22
141	1... PCB-174	3.20e5	1.04	NO	1.28	1.000	47.62	47.60	0.963	0.962	NO	53.06	106	0.0563	53.06
142	1... PCB-181	3.82e5	1.06	NO	1.48	1.000	47.71	47.69	0.964	0.964	NO	54.96	110	0.0488	54.96
143	1... PCB-177	3.13e5	1.04	NO	1.24	1.000	47.89	47.86	0.968	0.967	NO	53.75	108	0.0581	53.75
144	1... PCB-171	3.32e5	1.06	NO	1.33	1.000	48.19	48.17	0.974	0.974	NO	53.30	107	0.0543	53.30
145	1... PCB-173	2.90e5	1.04	NO	1.16	1.000	48.62	48.60	0.983	0.982	NO	53.47	107	0.0624	53.47
146	1... PCB-172	3.32e5	1.05	NO	1.34	1.000	49.08	49.08	0.992	0.992	NO	52.72	105	0.0538	52.72
147	1... PCB-192	4.30e5	1.05	NO	1.67	1.000	49.27	49.26	0.996	0.996	NO	54.97	110	0.0433	54.97
148	1... PCB-180	3.49e5	1.05	NO	1.38	1.000	49.49	49.49	1.000	1.000	NO	53.85	108	0.0524	53.85
149	1... PCB-193	4.02e5	1.06	NO	1.56	1.000	49.70	49.70	1.005	1.005	NO	54.96	110	0.0464	54.96
150	1... PCB-191	4.02e5	1.06	NO	1.60	1.000	49.97	49.95	1.010	1.010	NO	53.43	107	0.0450	53.43
151	1... PCB-170	2.95e5	1.06	NO	1.41	1.000	51.14	51.14	1.000	1.000	NO	51.95	104	0.0574	51.95
152	1... PCB-190	3.85e5	1.05	NO	1.79	1.000	51.35	51.35	1.005	1.004	NO	53.58	107	0.0453	53.58
153	1... PCB-189	4.03e5	1.06	NO	1.47	1.000	52.92	52.92	1.000	1.000	NO	51.68	103	0.0391	51.68
154	1... PCB-202	3.73e5	0.91	NO	1.09	1.000	48.37	48.37	1.000	1.000	NO	53.12	106	0.0183	53.12
155	1... PCB-201	3.20e5	0.94	NO	0.947	1.000	48.88	48.87	1.011	1.011	NO	52.50	105	0.0210	52.50
156	1... PCB-204	3.50e5	0.90	NO	1.03	1.000	49.03	49.04	1.014	1.014	NO	52.78	106	0.0193	52.78
157	1... PCB-197	3.51e5	0.92	NO	1.02	1.000	49.35	49.34	1.020	1.020	NO	53.21	106	0.0194	53.21
158	1... PCB-200	3.37e5	0.91	NO	0.976	1.000	50.28	50.27	1.040	1.040	NO	53.64	107	0.0204	53.64
159	1... PCB-198	2.43e5	0.91	NO	0.752	1.000	51.85	51.86	1.072	1.072	NO	50.21	100	0.0264	50.21
160	1... PCB-199	2.38e5	0.93	NO	0.732	1.000	52.00	51.99	1.075	1.075	NO	50.47	101	0.0272	50.47
161	1... PCB-196/203	5.21e5	0.91	NO	0.824	1.000	52.30	52.31	1.082	1.082	NO	98.28	98.3	0.0241	98.28
162	1... PCB-195	2.62e5	0.87	NO	0.765	1.000	53.63	53.64	0.983	0.983	NO	60.20	120	0.0425	60.20
163	1... PCB-194	2.95e5	0.88	NO	0.967	1.000	54.58	54.58	1.000	1.000	NO	53.60	107	0.0336	53.60
164	1... PCB-205	3.73e5	0.88	NO	1.11	1.000	54.86	54.86	1.005	1.005	NO	59.09	118	0.0293	59.09
165	1... PCB-208	3.95e5	1.35	NO	0.901	1.000	53.79	53.79	1.000	1.000	NO	54.32	109	0.0239	54.32
166	1... PCB-207	3.78e5	1.35	NO	0.841	1.000	54.13	54.14	1.007	1.007	NO	55.74	111	0.0256	55.74
167	1... PCB-206	3.03e5	1.34	NO	0.958	1.000	56.10	56.10	1.000	1.000	NO	53.97	108	0.0292	53.97



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Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
168	1... PCB-209	3.50e5	1.20	NO	0.956	1.000	57.35	57.35	1.000	1.000	NO	52.76	106 <sup>75-125%</sup>	0.00367	52.76
169	1... 13C-PCB-1	2.42e6	3.30	NO	0.999	1.000	15.47	15.46	0.609	0.608	NO	113.2	113 <sup>50-145%</sup>	0.0193	
170	1... 13C-PCB-3	2.34e6	3.28	NO	1.03	1.000	18.11	18.10	0.712	0.712	NO	106.3	106	0.0187	
171	1... 13C-PCB-4	1.45e6	1.58	NO	0.650	1.000	19.44	19.44	0.765	0.765	NO	104.0	104	0.0221	
172	1... 13C-PCB-9	2.20e6	1.57	NO	0.996	1.000	21.27	21.27	0.837	0.836	NO	103.1	103	0.0144	
173	1... 13C-PCB-11	2.05e6	1.57	NO	0.959	1.000	24.71	24.71	0.972	0.972	NO	100.1	100	0.0150	
174	1... 13C-PCB-19	1.15e6	1.08	NO	0.529	1.000	23.67	23.66	0.931	0.931	NO	101.5	101	0.164	
175	1... 13C-PCB-32	1.60e6	1.08	NO	0.760	1.000	26.63	26.65	1.048	1.048	NO	98.06	98.1	0.114	
176	1... 13C-PCB-28	1.70e6	1.02	NO	1.10	1.000	28.64	28.66	1.003	1.004	NO	91.90	91.9	0.0876	
177	1... 13C-PCB-37	1.53e6	1.03	NO	0.983	1.000	32.60	32.63	1.142	1.143	NO	91.74	91.7	0.0978	
178	1... 13C-PCB-54	1.43e6	0.79	NO	1.07	1.000	27.53	27.49	0.753	0.752	NO	109.7	110	0.0454	
179	1... 13C-PCB-52	1.08e6	0.79	NO	0.854	1.000	31.17	31.14	0.853	0.852	NO	103.8	104	0.0569	
180	1... 13C-PCB-47	1.14e6	0.80	NO	0.905	1.000	31.69	31.66	0.867	0.867	NO	103.4	103	0.0537	
181	1... 13C-PCB-70	1.25e6	0.79	NO	1.01	1.000	35.29	35.27	0.966	0.965	NO	101.7	102	0.0483	
182	1... 13C-PCB-80	1.28e6	0.80	NO	1.04	1.000	35.72	35.70	0.978	0.977	NO	100.9	101	0.0465	
183	1... 13C-PCB-81	1.19e6	0.78	NO	0.974	1.000	38.90	38.88	1.065	1.064	NO	100.5	101	0.0499	
184	1... 13C-PCB-77	1.15e6	0.80	NO	0.951	1.000	39.49	39.49	1.081	1.081	NO	98.82	98.8	0.0511	
185	1... 13C-PCB-104	9.45e5	1.59	NO	1.08	1.000	32.32	32.31	0.827	0.827	NO	105.0	105	0.0169	
186	1... 13C-PCB-95	7.26e5	1.65	NO	0.847	1.000	35.59	35.57	0.910	0.910	NO	103.3	103	0.0216	
187	1... 13C-PCB-101	6.97e5	1.64	NO	0.827	1.000	37.31	37.30	0.955	0.954	NO	101.6	102	0.0222	
188	1... 13C-PCB-97	5.88e5	1.67	NO	0.707	1.000	38.62	38.64	0.988	0.989	NO	100.2	100	0.0259	
189	1... 13C-PCB-123	7.71e5	1.68	NO	0.914	1.000	41.27	41.26	1.056	1.056	NO	101.5	102	0.0201	
190	1... 13C-PCB-118	8.14e5	1.62	NO	0.961	1.000	41.45	41.47	1.061	1.061	NO	102.1	102	0.0191	
191	1... 13C-PCB-114	9.46e5	1.58	NO	1.41	1.000	42.13	42.12	0.908	0.908	NO	107.2	107	0.0416	
192	1... 13C-PCB-105	9.70e5	1.58	NO	1.56	1.000	43.01	43.01	0.927	0.927	NO	99.20	99.2	0.0375	
193	1... 13C-PCB-127	9.99e5	1.57	NO	1.71	1.000	43.36	43.37	0.935	0.935	NO	92.90	92.9	0.0341	
194	1... 13C-PCB-126	8.80e5	1.57	NO	1.37	1.000	45.29	45.31	0.976	0.977	NO	102.5	103	0.0427	
195	1... 13C-PCB-155	6.40e5	1.29	NO	0.634	1.000	36.84	36.83	0.942	0.942	NO	121.5	122	0.0147	
196	1... 13C-PCB-153	8.89e5	1.27	NO	1.53	1.000	43.17	43.18	0.931	0.931	NO	92.78	92.8	0.0461	
197	1... 13C-PCB-141	7.27e5	1.30	NO	1.19	1.000	43.93	43.94	0.947	0.947	NO	97.20	97.2	0.0591	
198	1... 13C-PCB-138	7.43e5	1.27	NO	1.18	1.000	44.79	44.79	0.966	0.966	NO	100.3	100	0.0596	
199	1... 13C-PCB-159	8.70e5	1.28	NO	1.38	1.000	46.11	46.12	0.994	0.994	NO	100.2	100	0.0509	
200	2... 13C-PCB-167	8.87e5	1.27	NO	1.38	1.000	46.81	46.82	1.009	1.009	NO	102.2	102	0.0509	
201	2... 13C-PCB-156	8.46e5	1.26	NO	1.33	1.000	48.16	48.15	1.038	1.038	NO	101.5	102	0.0531	

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Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
202	2... 13C-PCB-157	8.70e5	1.27	NO	1.36	1.000	48.42	48.41	1.044	1.044	NO	101.7	102 <sup>50-145%</sup>	0.0517	
203	2... 13C-PCB-169	7.99e5	1.30	NO	1.27	1.000	50.68	50.69	1.092	1.093	NO	100.4	100	0.0555	
204	2... 13C-PCB-188	7.38e5	0.44	NO	1.41	1.000	42.79	42.80	0.926	0.926	NO	100.2	100	0.0275	
205	2... 13C-PCB-180	4.69e5	0.46	NO	0.897	1.000	49.45	49.47	1.070	1.071	NO	100.0	100	0.0432	
206	2... 13C-PCB-170	4.01e5	0.45	NO	0.769	1.000	51.13	51.12	1.106	1.106	NO	99.76	99.8	0.0504	
207	2... 13C-PCB-189	5.32e5	0.45	NO	1.05	1.000	52.91	52.90	1.145	1.145	NO	96.77	96.8	0.0369	
208	2... 13C-PCB-202	6.43e5	0.93	NO	1.05	1.000	48.35	48.36	1.046	1.046	NO	117.7	118	0.0294	
209	2... 13C-PCB-194	5.68e5	0.89	NO	0.753	1.000	54.57	54.57	0.995	0.995	NO	94.73	94.7	0.0547	
210	2... 13C-PCB-208	8.07e5	0.77	NO	0.988	1.000	53.79	53.78	0.981	0.981	NO	102.4	102	0.0588	
211	2... 13C-PCB-206	5.87e5	0.79	NO	0.672	1.000	56.09	56.09	1.023	1.023	NO	109.5	109	0.0864	
212	2... 13C-PCB-209	6.94e5	1.22	NO	0.609	1.000	57.33	57.33	1.045	1.045	NO	142.9	143	0.00844	
213	2... 13C-PCB-15	2.14e6	1.57	NO	1.00	1.000	25.47	25.42	1.000	0.000	NO	100.0	100	0.0144	
214	2... 13C-PCB-31	1.69e6	1.03	NO	1.00	1.000	28.59	28.55	1.000	0.000	NO	100.0	100	0.0961	
215	2... 13C-PCB-60	1.22e6	0.79	NO	1.00	1.000	36.54	36.54	1.000	0.000	NO	100.0	100	0.0486	
216	2... 13C-PCB-111	8.30e5	1.64	NO	1.00	1.000	39.10	39.08	1.000	0.000	NO	100.0	100	0.0183	
217	2... 13C-PCB-128	6.28e5	1.29	NO	1.00	1.000	46.38	46.38	1.000	0.000	NO	100.0	100	0.0704	
218	2... 13C-PCB-182	5.23e5	0.46	NO	1.00	1.000	46.21	46.21	0.000	0.000	NO	100.0	100	0.0387	
219	2... 13C-PCB-205	7.97e5	0.91	NO	1.00	1.000	54.84	54.84	1.000	0.000	NO	100.0	100	0.0412	
220	2... 13C-PCB-79	1.32e6	0.80	NO	1.08	1.000	37.62	37.63	1.030	1.030	NO	100.5	100 <sup>75-125%</sup>	0.0451	
221	2... 13C-PCB-178	4.88e5	0.45	NO	0.731	1.000	45.67	45.67	0.988	0.988	NO	106.4	106	0.0454	
222	2... 13C-PCB-79	1.32e6	0.80	NO	1.11	1.000	37.62	37.63	0.967	0.968	NO	99.95	99.9	0.0454	
223	2... 13C-PCB-178	4.88e5	0.45	NO	1.05	1.000	45.69	45.67	0.924	0.923	NO	99.50	99.5	0.0437	

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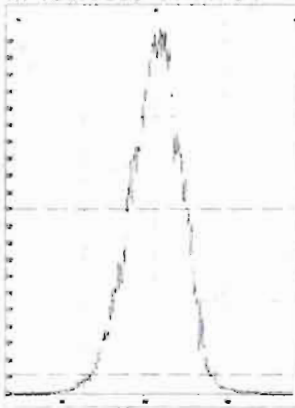
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Compound name: PCB-1

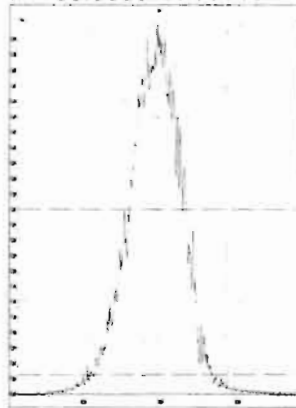
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2	200426R2_2	SOLVENT BLANK	27-Apr-20	00:59:43
3	200426R2_3	2000927-08 PDI-152SC-A-00-01-200421 10	27-Apr-20	02:00:13
4	200426R2_4	2000933-02 PDI-154SC-A-00-01-200422 10	27-Apr-20	03:00:43
5	200426R2_5	2000933-10 PDI-155SC-A-00-01-200422 10	27-Apr-20	04:01:14
6	200426R2_6	SOLVENT BLANK	27-Apr-20	05:10:06

Printed: Sunday, April 26, 2020 21:58:33 Pacific Daylight Time

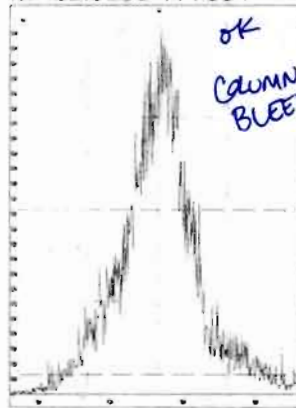
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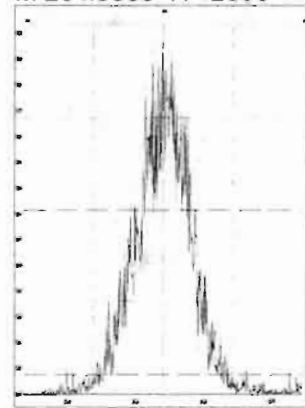
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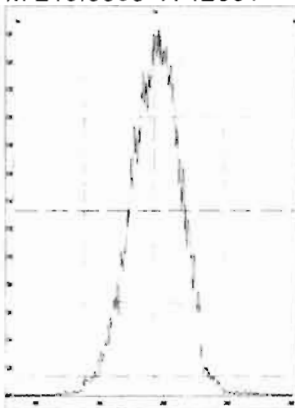
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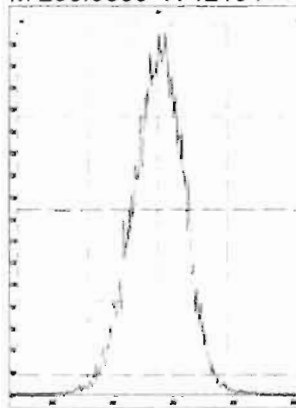
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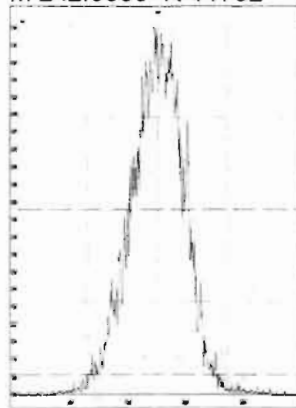
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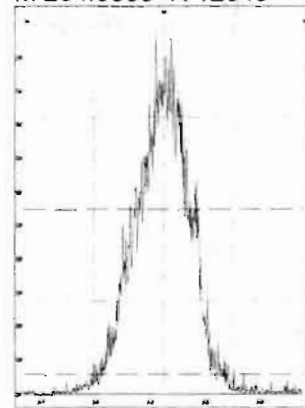
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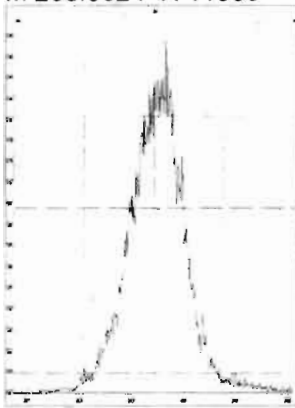
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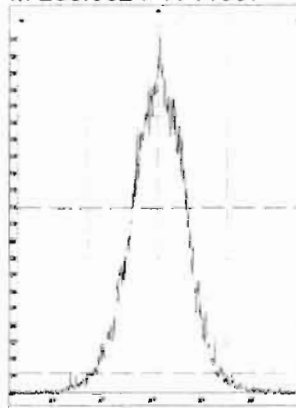
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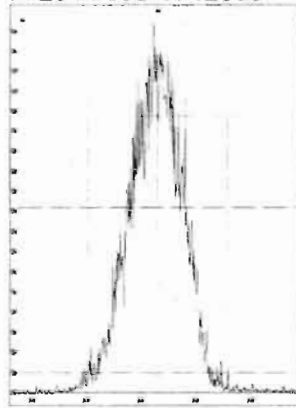
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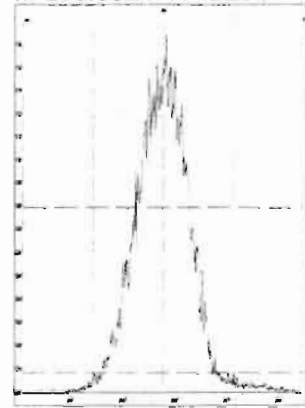
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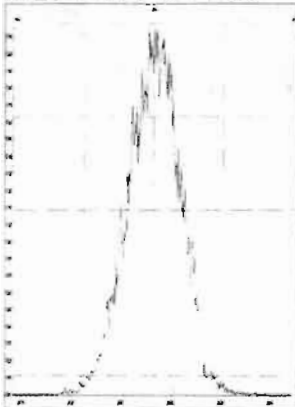
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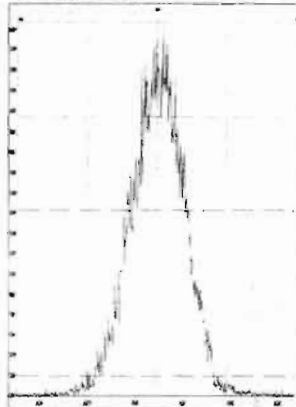
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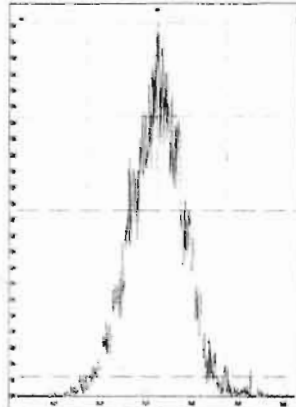
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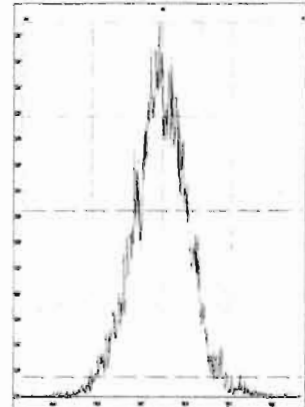
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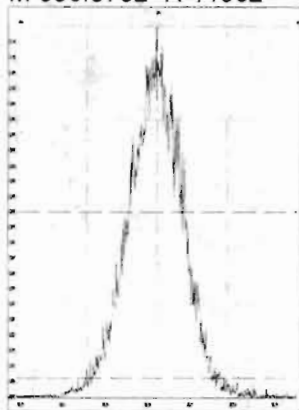


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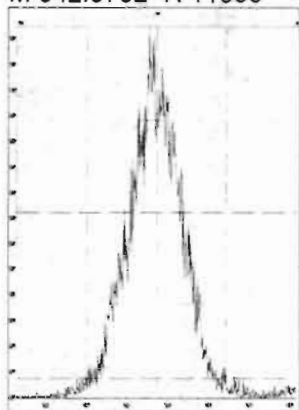


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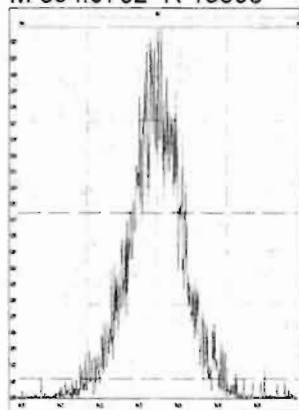
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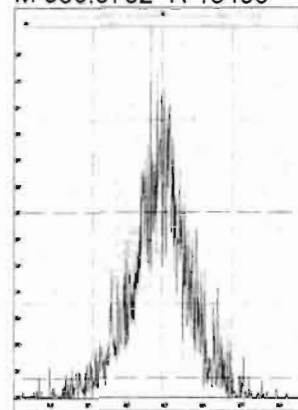
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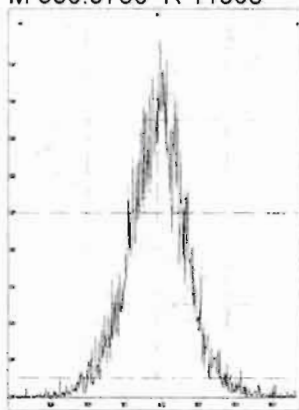
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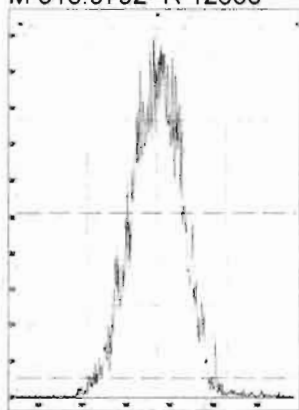
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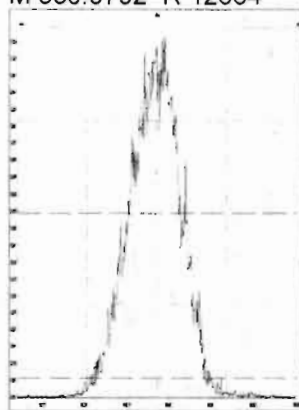
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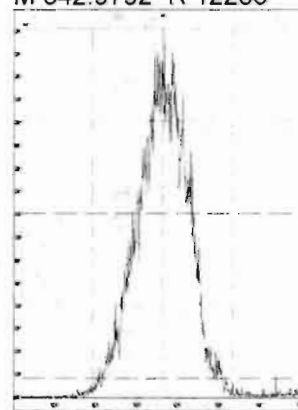
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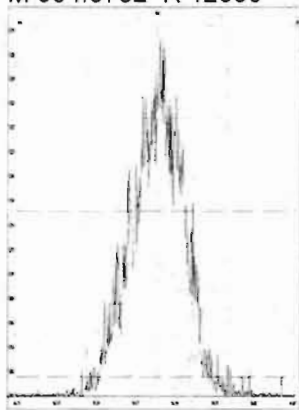
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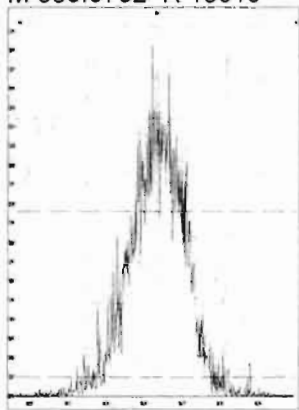
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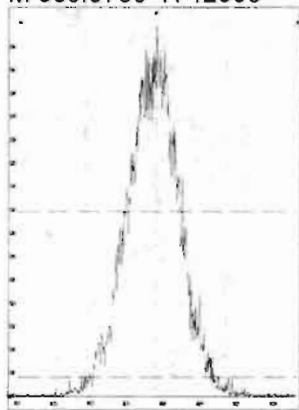
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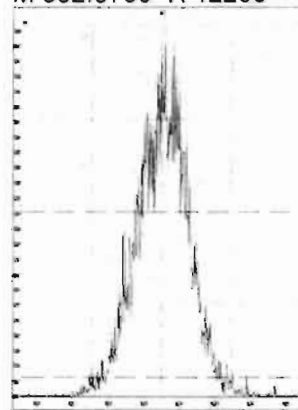
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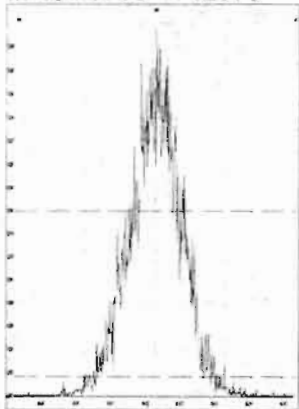
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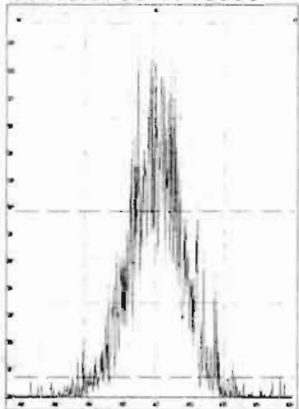
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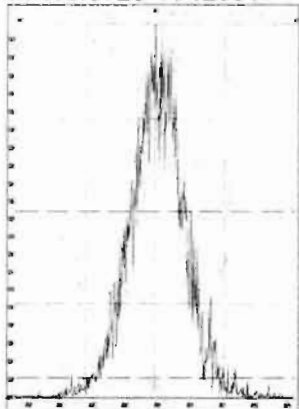
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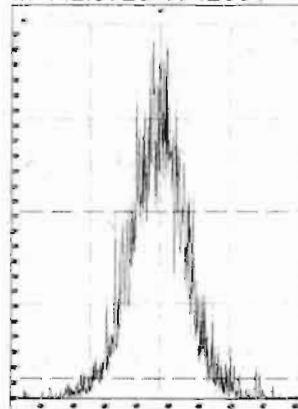
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M 430.9728 R 12661

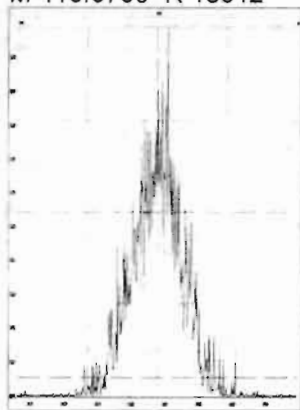


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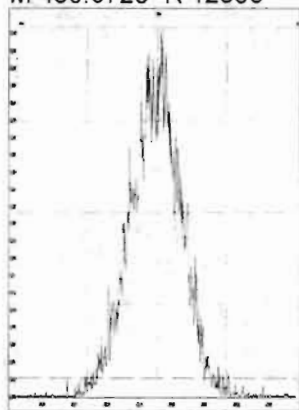


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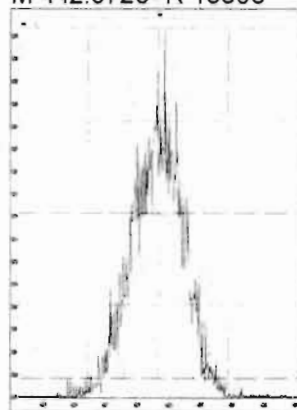
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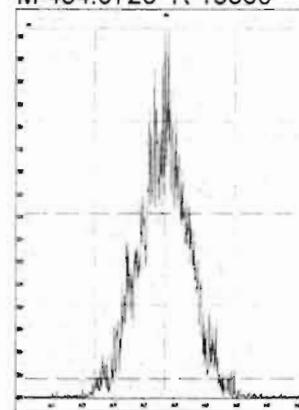
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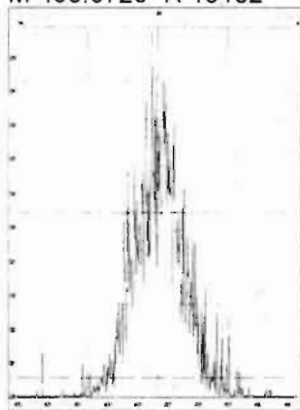
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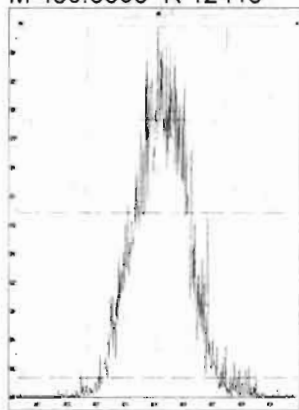
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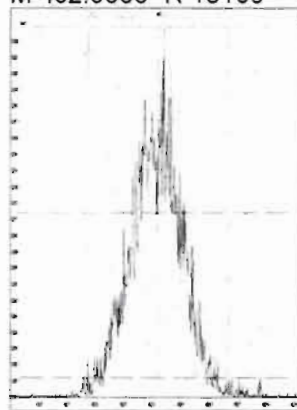
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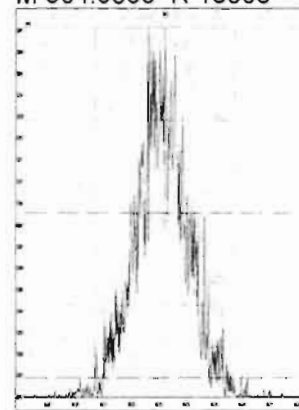
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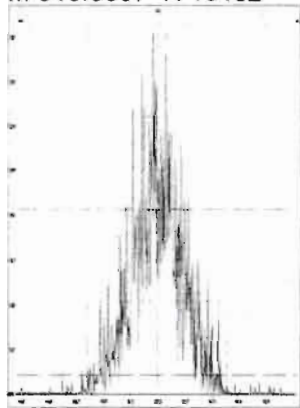
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M 504.9696 R 13803



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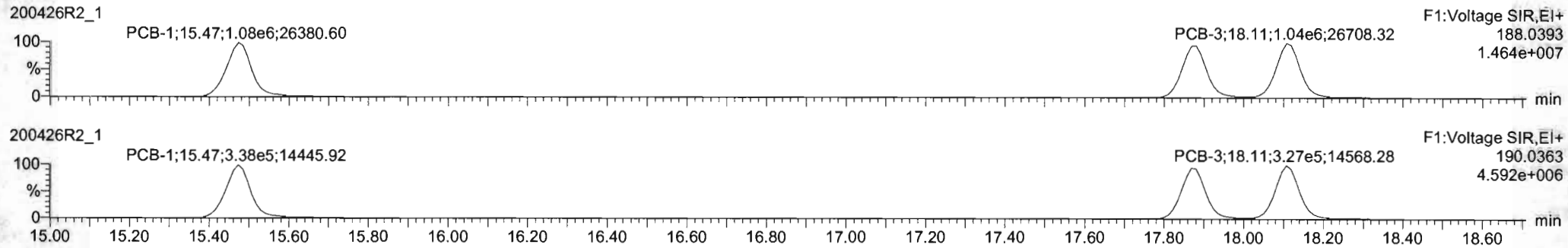
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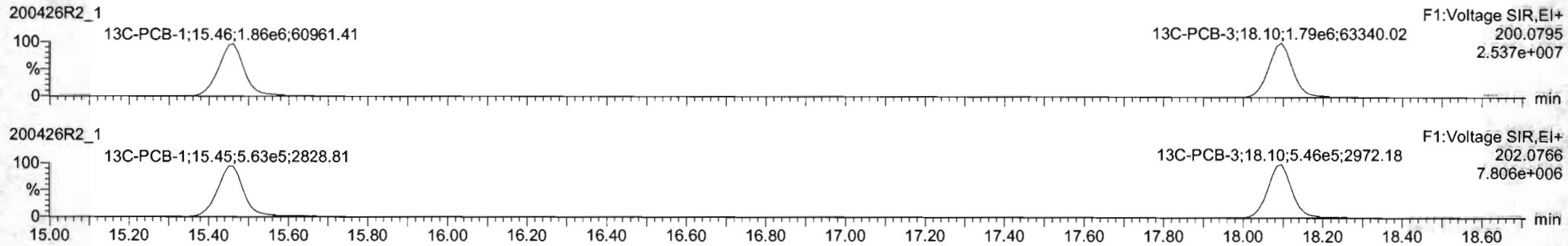
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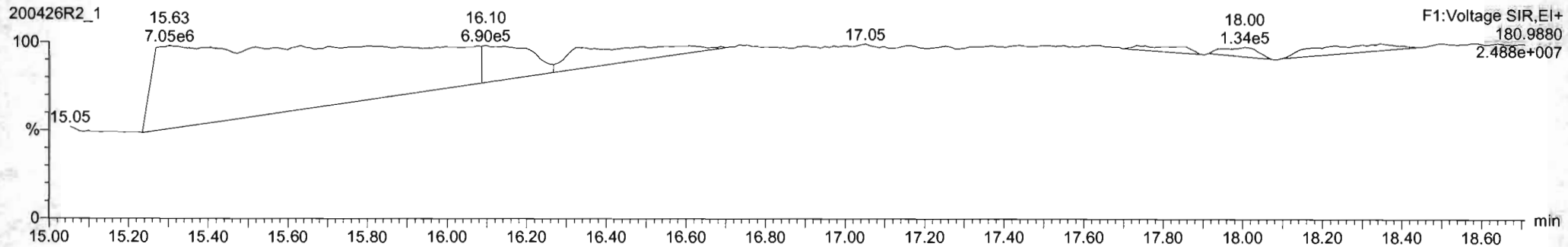
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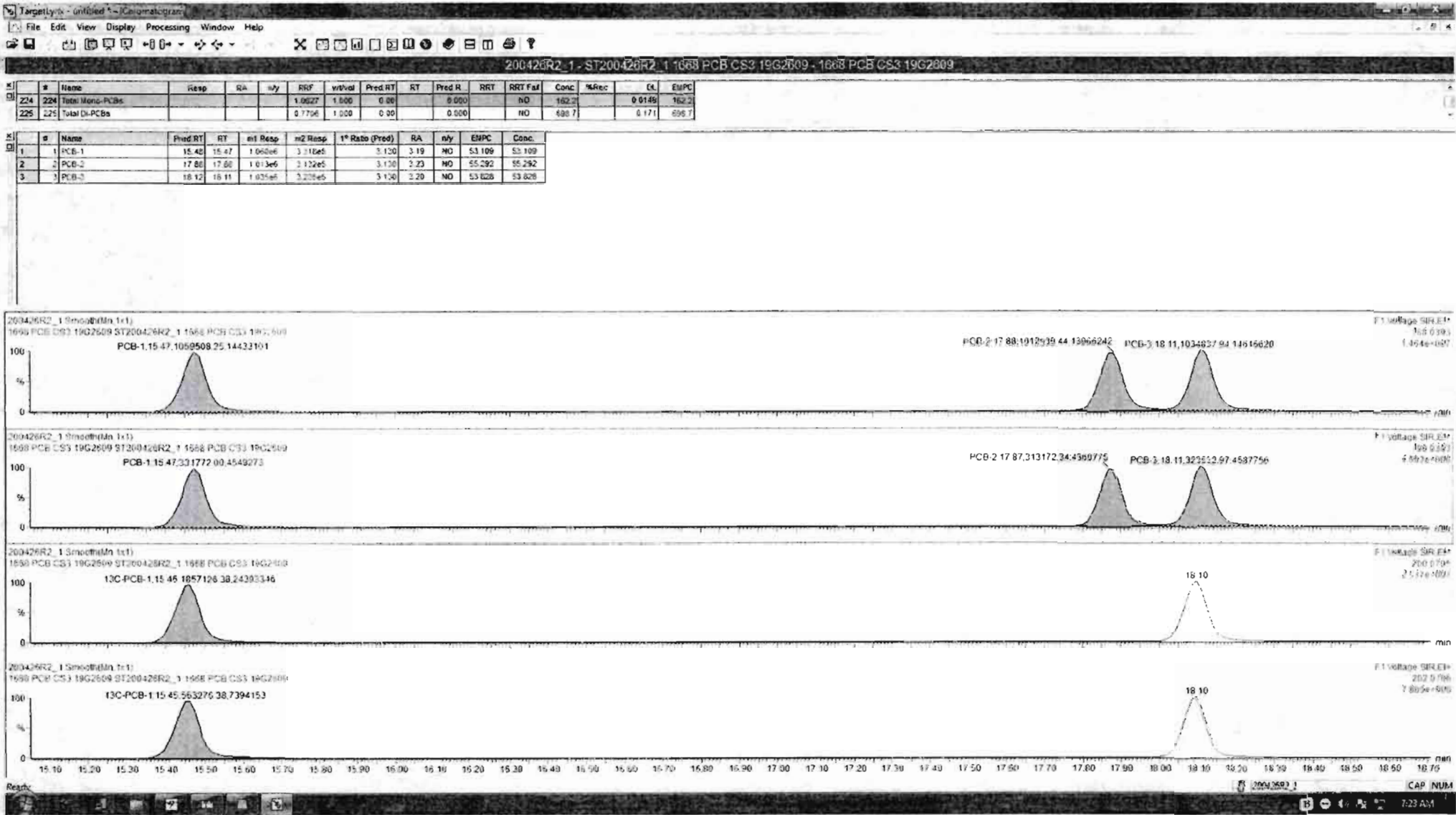


**13C-PCB-1**



**PFK1**







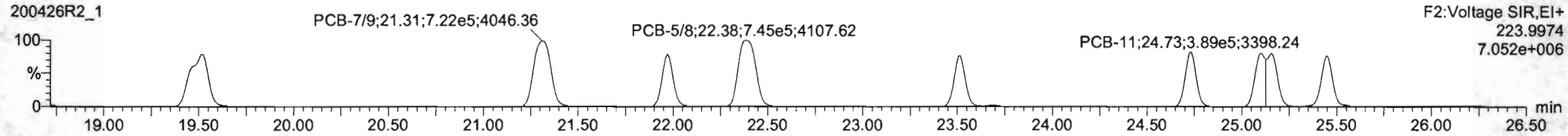
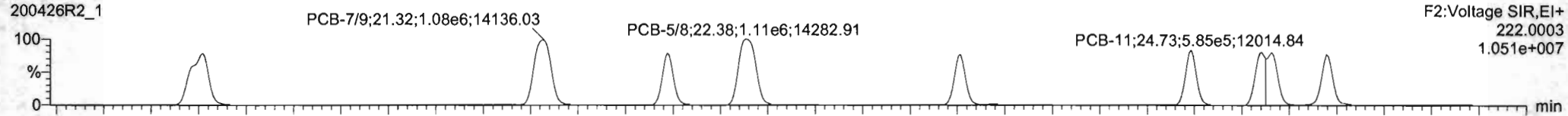
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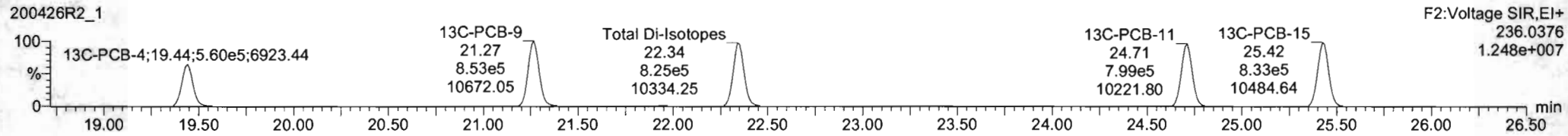
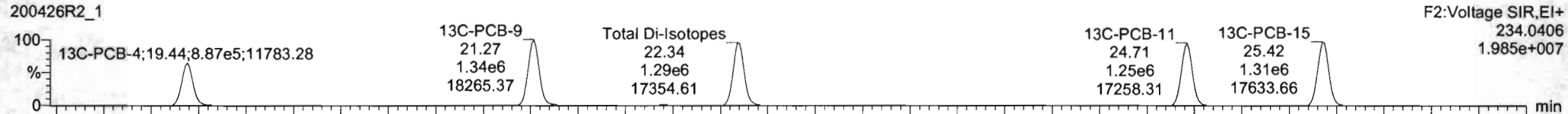
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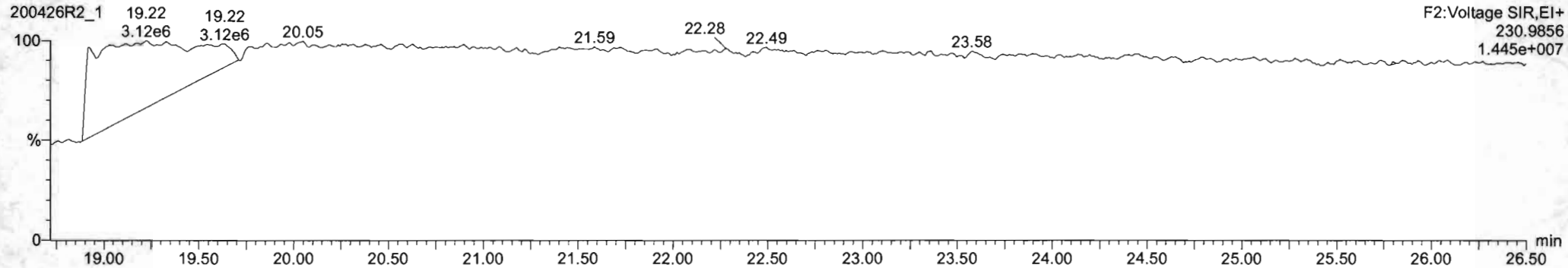
**PCB-4/10**



**13C-PCB-4**



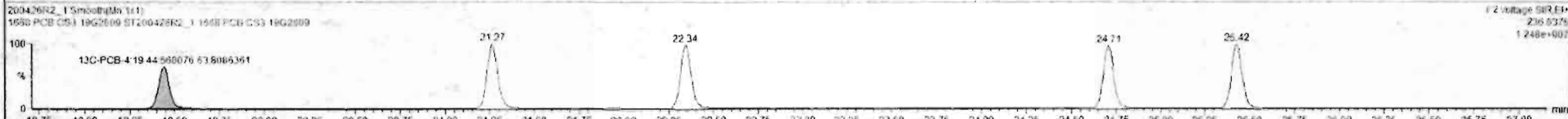
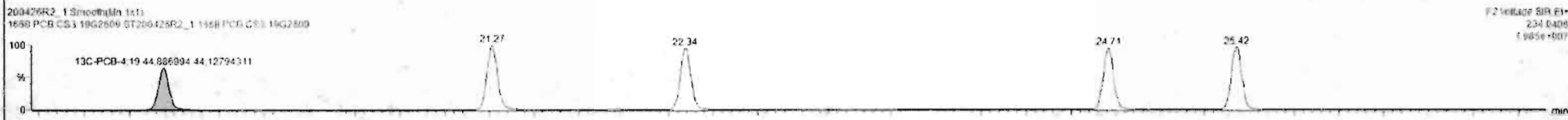
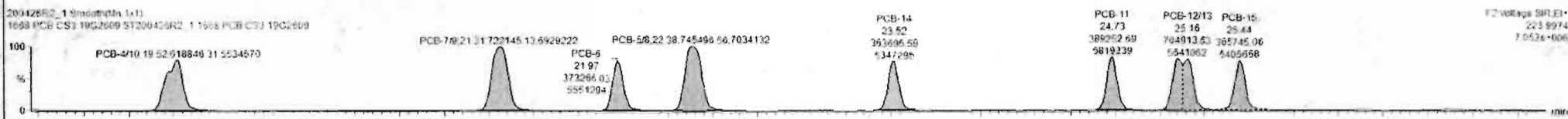
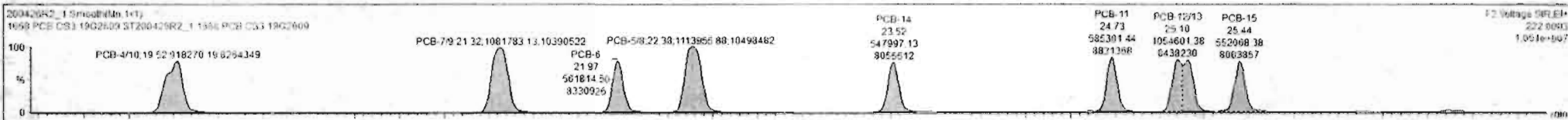
**PFK2a**



200426R2\_1 - ST200426R2\_1 1688 PCB CS3 19G2609 - 1688 PCB CS3 19G2609

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224	Total Mono-PCBs				1.0627	1.000	0.90		0.000		NO	162.2		0.0149	162.2
225	Total Di-PCBs				0.7708	1.000	0.90		0.000		NO	698.7		0.171	698.7

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	19.52	19.52	9.183e5	6.162e5	1.560	1.45	NO	119.46	119.46
2	5 PCB-7/9	21.32	21.32	1.082e6	7.221e5	1.560	1.50	NO	114.78	114.78
3	6 PCB-8	21.96	21.97	5.618e5	3.723e5	1.560	1.51	NO	58.364	58.364
4	7 PCB-5/8	22.37	22.38	1.174e5	7.455e5	1.560	1.49	NO	117.28	117.28
5	8 PCB-14	23.52	23.52	5.480e5	3.637e5	1.560	1.51	NO	58.951	58.951
6	9 PCB-11	24.73	24.73	5.853e5	3.893e5	1.560	1.50	NO	56.884	56.884
7	10 PCB-12/13	25.19	25.10	1.055e6	7.049e5	1.560	1.50	NO	118.85	118.85
8	11 PCB-15	25.45	25.44	5.521e5	3.657e5	1.560	1.51	NO	57.151	57.151

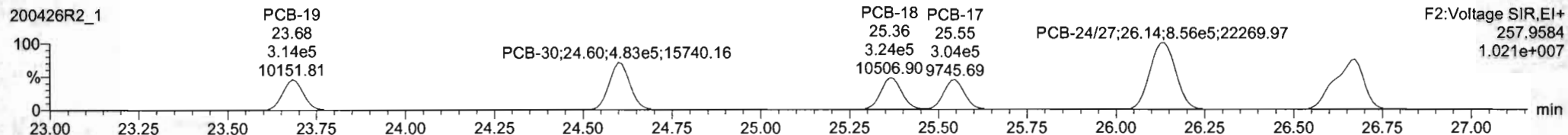
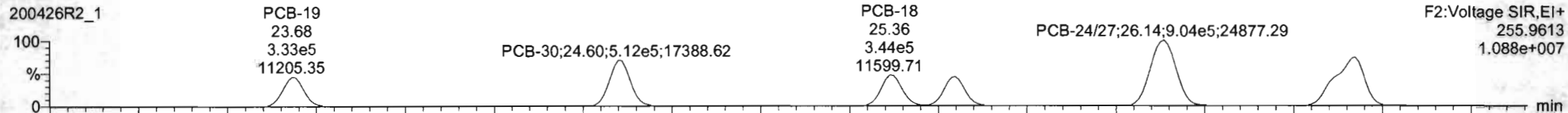


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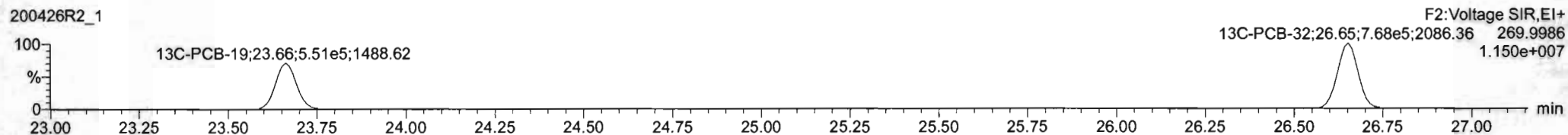
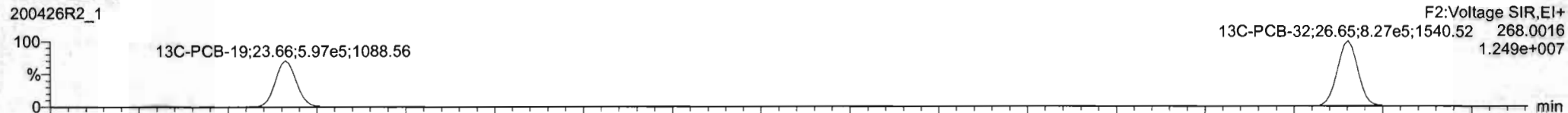
Last Altered: Monday, April 27, 2020 07:33:54 Pacific Daylight Time  
Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

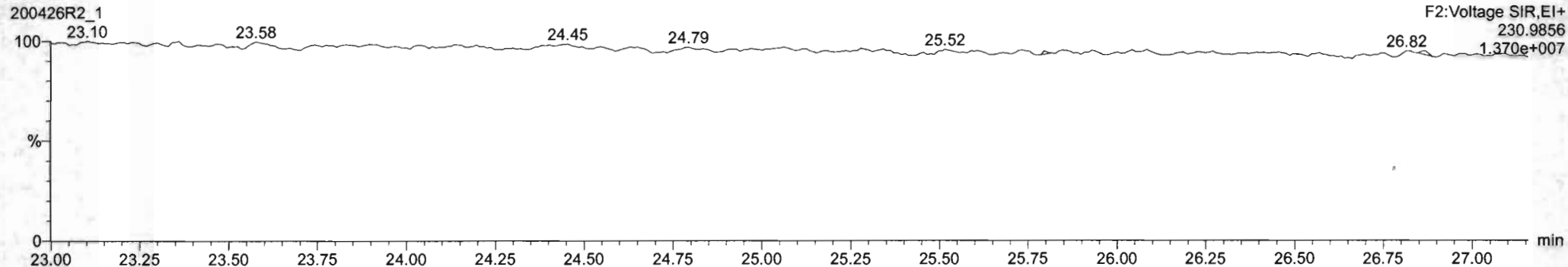
**PCB-19**



**13C-PCB-19**



**PFK2b**



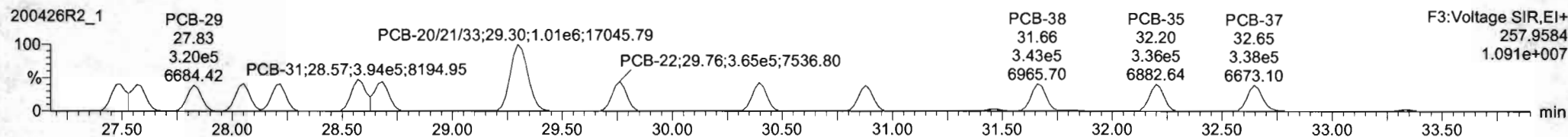
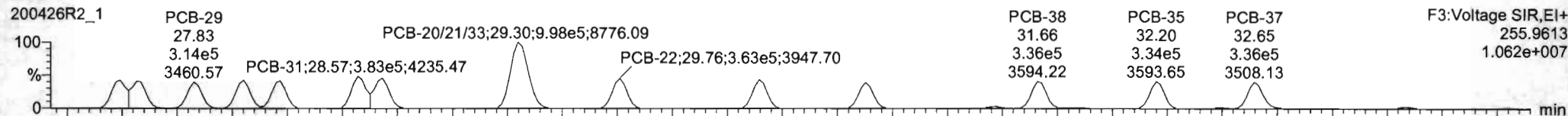
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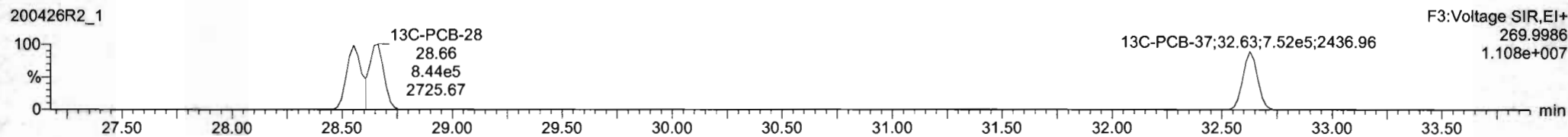
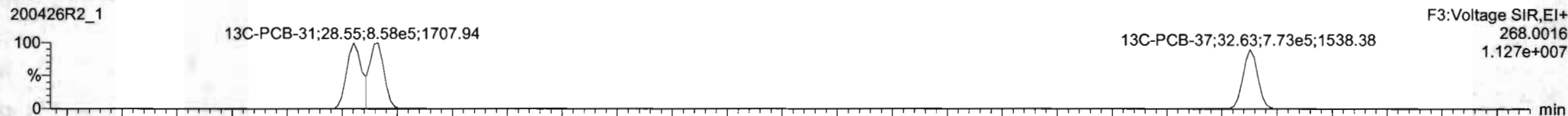
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Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

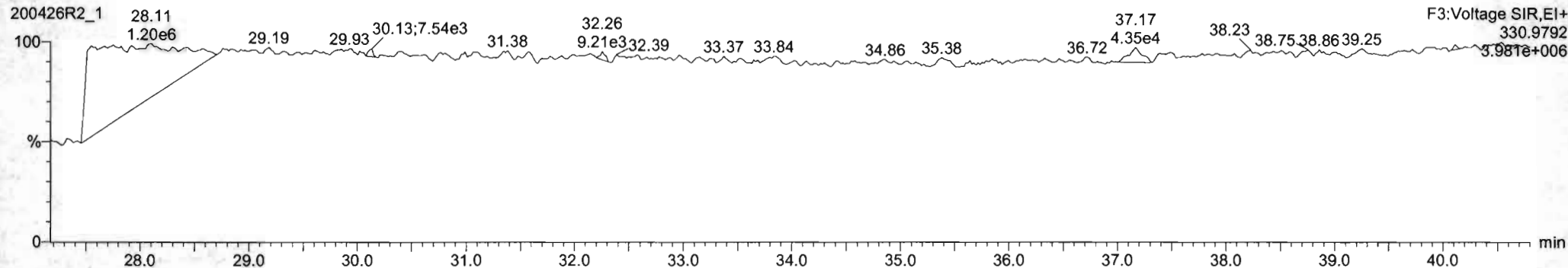
**PCB-34**

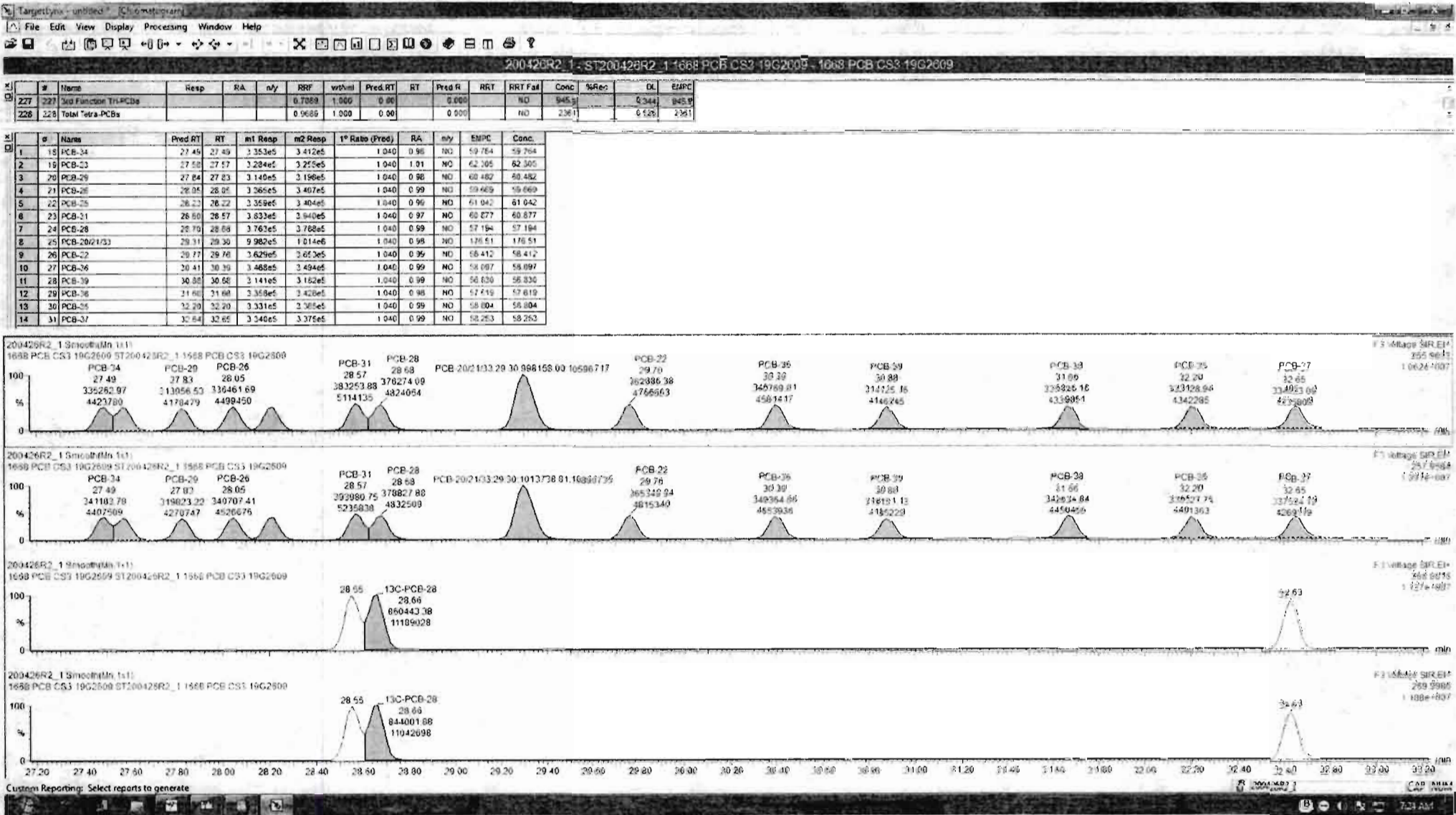


**13C-PCB-28**



**PFK3a**



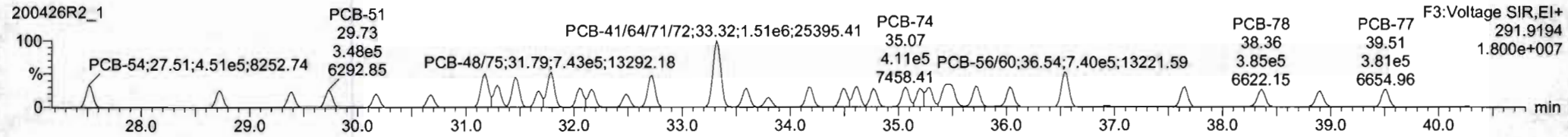
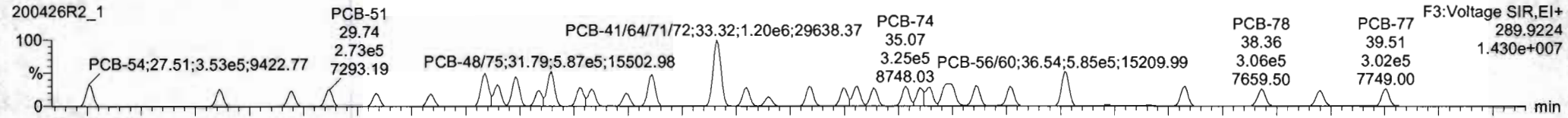


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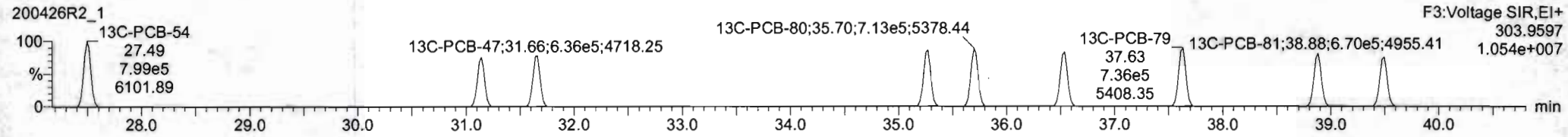
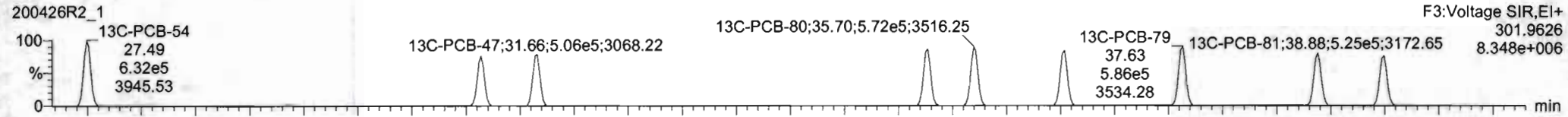
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Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

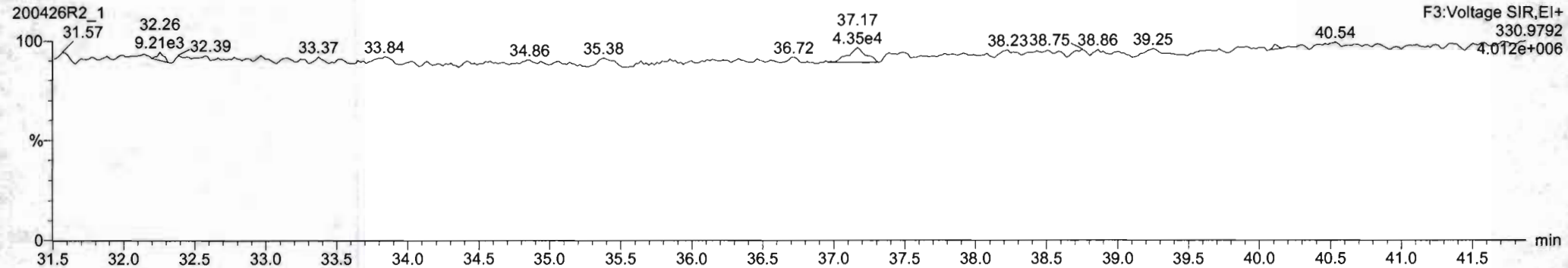
**PCB-54**



**13C-PCB-54**



**PFK3b**

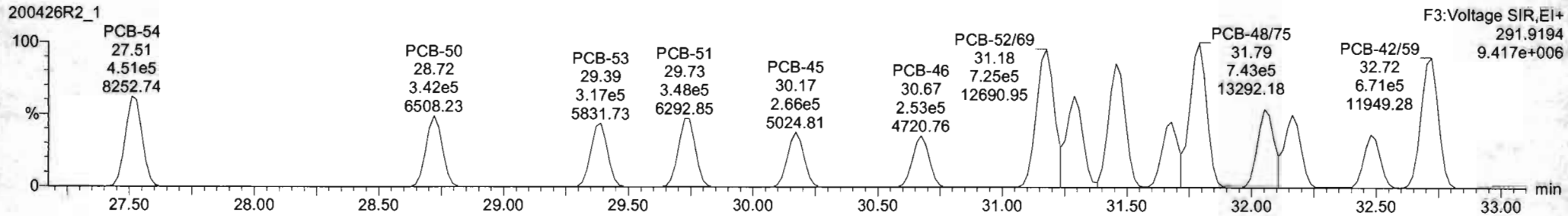
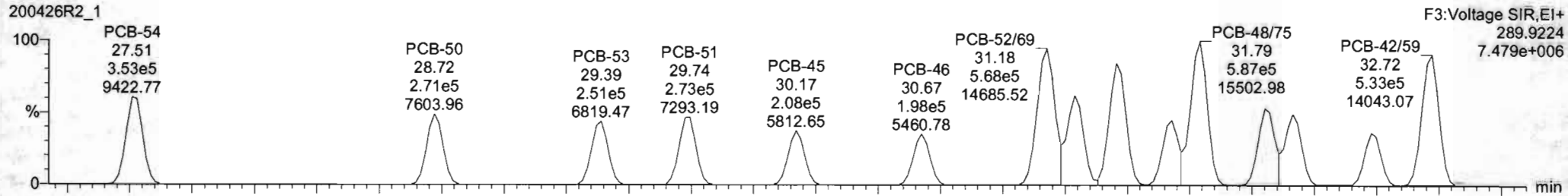


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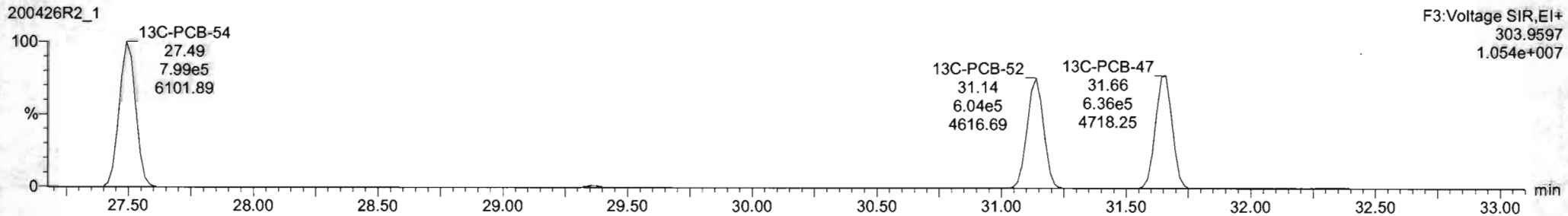
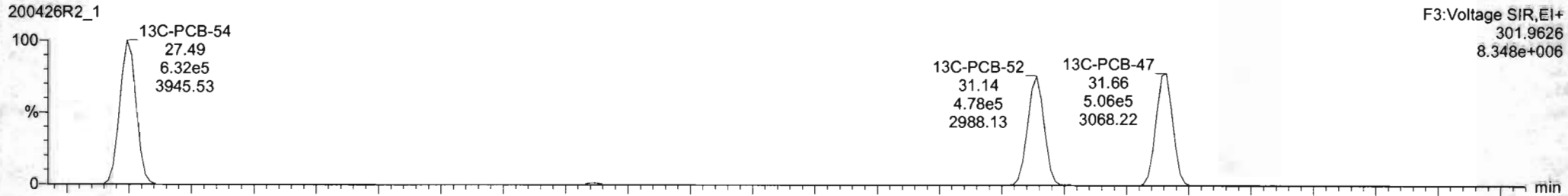
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Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

PCB-50



13C-PCB-52

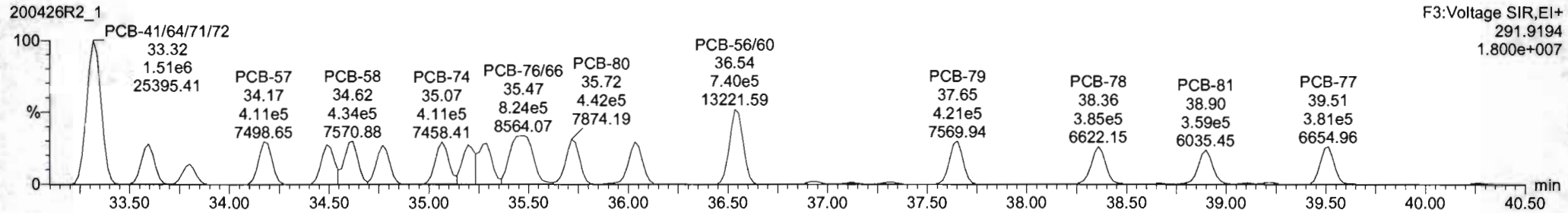
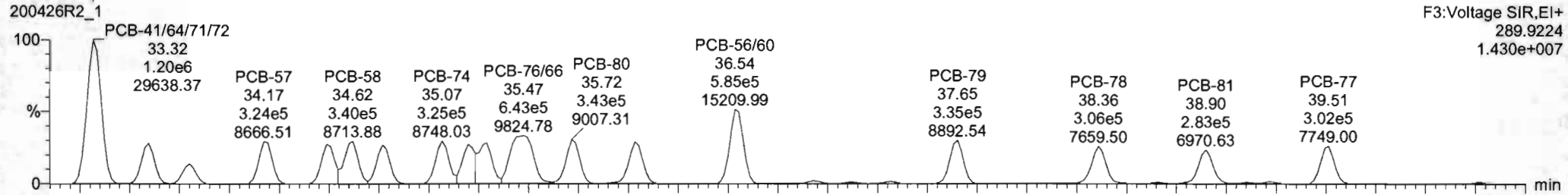


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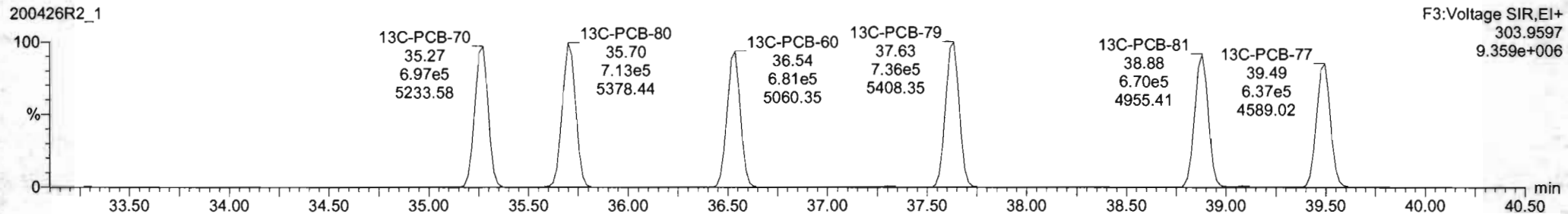
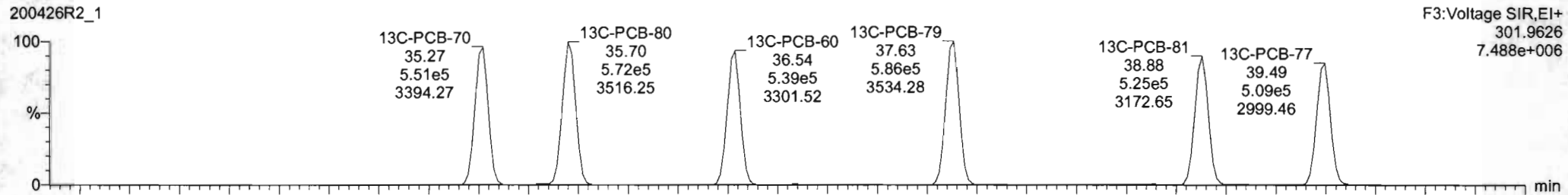
Last Altered: Monday, April 27, 2020 07:33:54 Pacific Daylight Time  
Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

PCB-68



13C-PCB-60

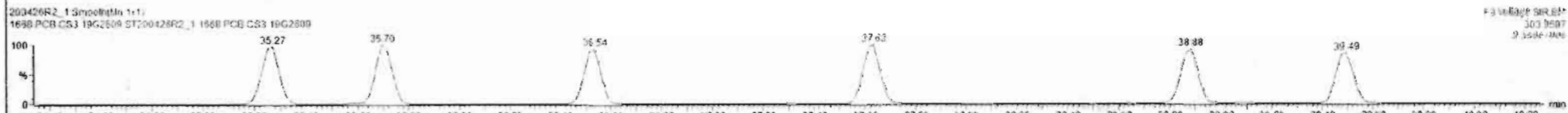




200426R2\_1 - ST200426R2\_1 1668 PCB CS3 19G2609 - 1668 PCB CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				0.7069	1.000	0.90		0.000		NO	945.5		0.344	945.5
228	228 Total Tetra-PCBs				0.9665	1.000	0.90		0.000		NO	2369		0.528	2369

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
19	45 PCB-57	34.17	34.17	3.240e5	4.115e5	0.770	0.79	NO	57.058	57.058
20	51 PCB-67	34.49	34.49	2.897e5	3.677e5	0.770	0.79	NO	53.469	53.469
21	52 PCB-68	34.62	34.62	3.403e5	4.359e5	0.770	0.78	NO	58.872	58.872
22	53 PCB-63	34.77	34.77	2.912e5	3.701e5	0.770	0.79	NO	56.793	56.793
23	54 PCB-74	35.06	35.07	1.252e5	4.110e5	0.770	0.79	NO	57.401	57.401
24	55 PCB-E170	35.29	35.29	5.919e5	7.517e5	0.770	0.79	NO	111.24	111.24
25	56 PCB-7666	35.47	35.47	6.430e5	8.238e5	0.770	0.78	NO	112.74	112.74
26	57 PCB-60	35.71	35.72	3.435e5	4.416e5	0.770	0.78	NO	56.987	56.987
27	58 PCB-55	36.03	36.03	1.338e5	4.276e5	0.770	0.78	NO	56.642	56.642
28	59 PCB-5660	36.53	36.54	5.847e5	7.399e5	0.770	0.79	NO	110.61	110.61
29	60 PCB-79	37.65	37.65	3.350e5	4.210e5	0.770	0.90	NO	55.751	55.751
30	61 PCB-78	38.36	38.36	3.017e5	3.801e5	0.770	0.79	NO	57.061	57.061
31	62 PCB-81	38.90	38.90	2.794e5	3.543e5	0.770	0.79	NO	55.650	55.650
32	63 PCB-77	39.51	39.51	2.981e5	3.753e5	0.770	0.79	NO	55.095	55.095



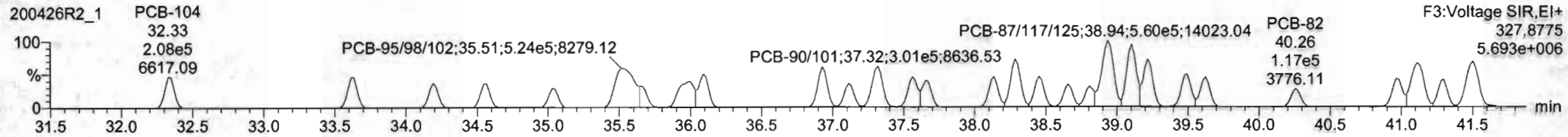
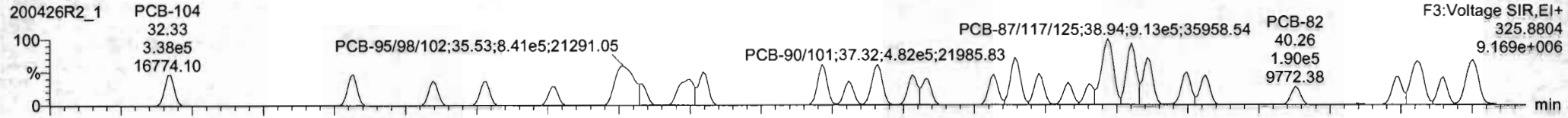
Dataset: Untitled

Last Altered: Monday, April 27, 2020 07:33:54 Pacific Daylight Time

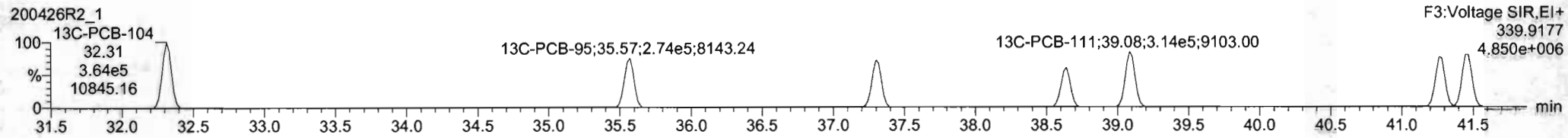
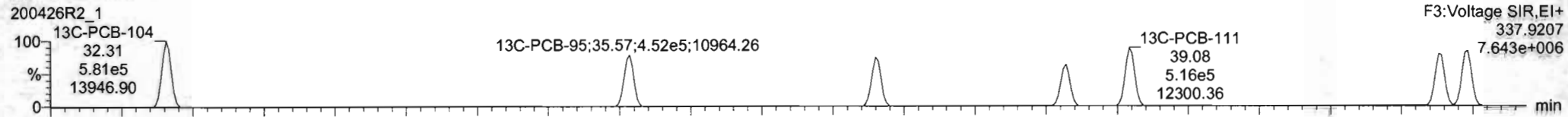
Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

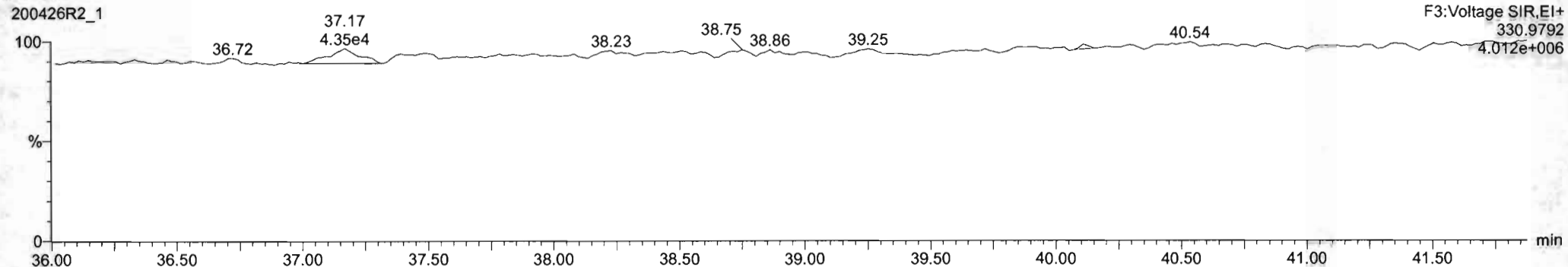
**PCB-104**



**13C-PCB-104**



**PFK3c**



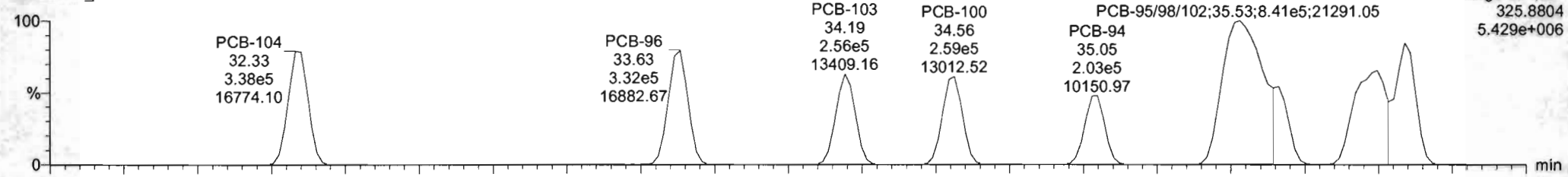
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Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

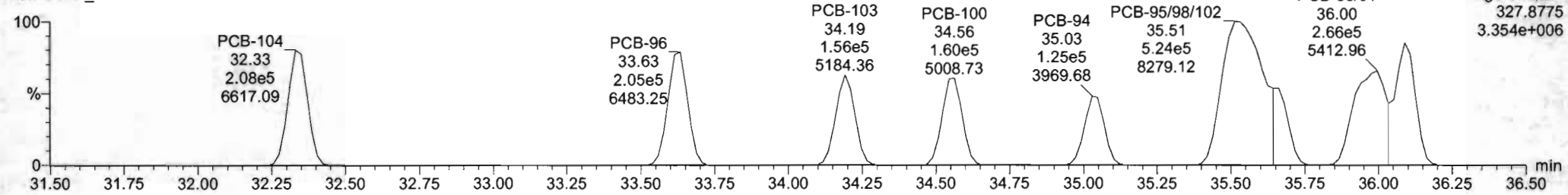
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PCB-96

200426R2\_1

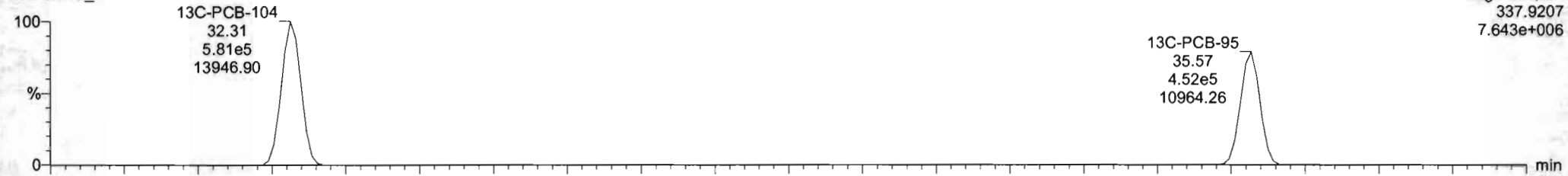


200426R2\_1

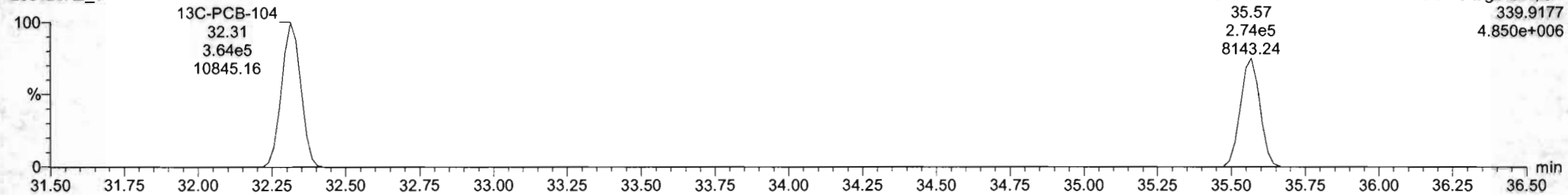


13C-PCB-95

200426R2\_1



200426R2\_1



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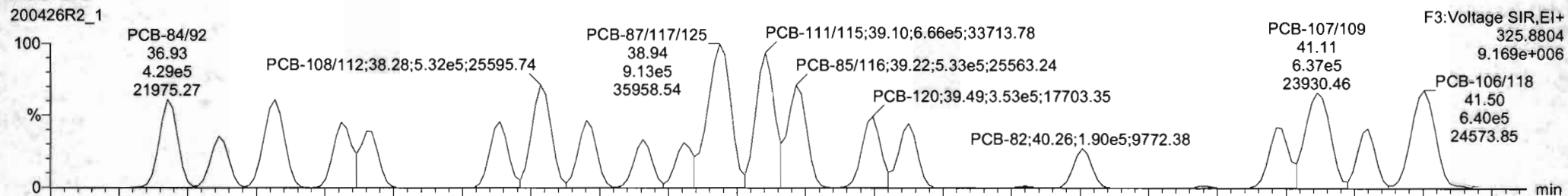
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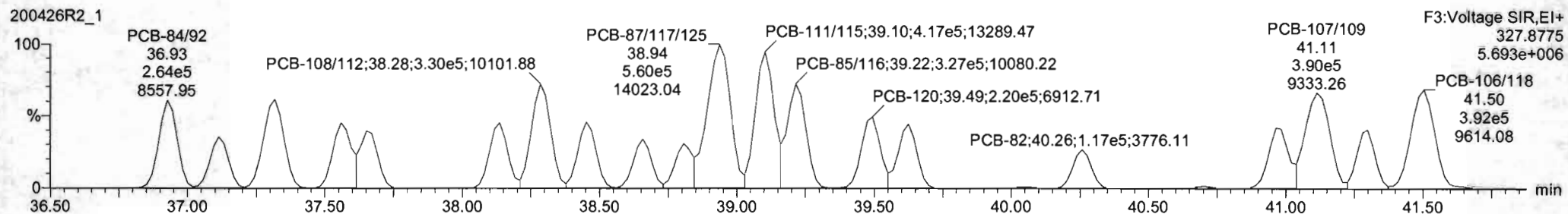
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PCB-119

200426R2\_1

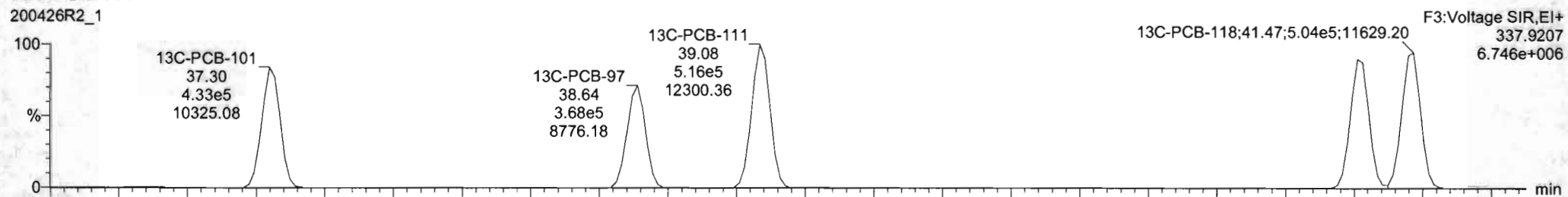


200426R2\_1

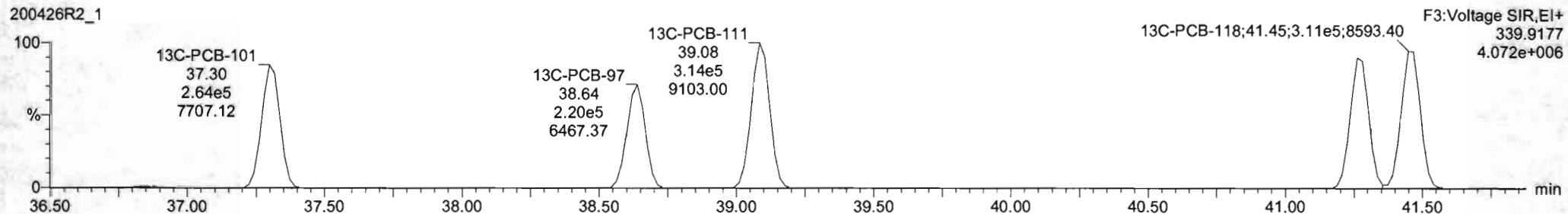


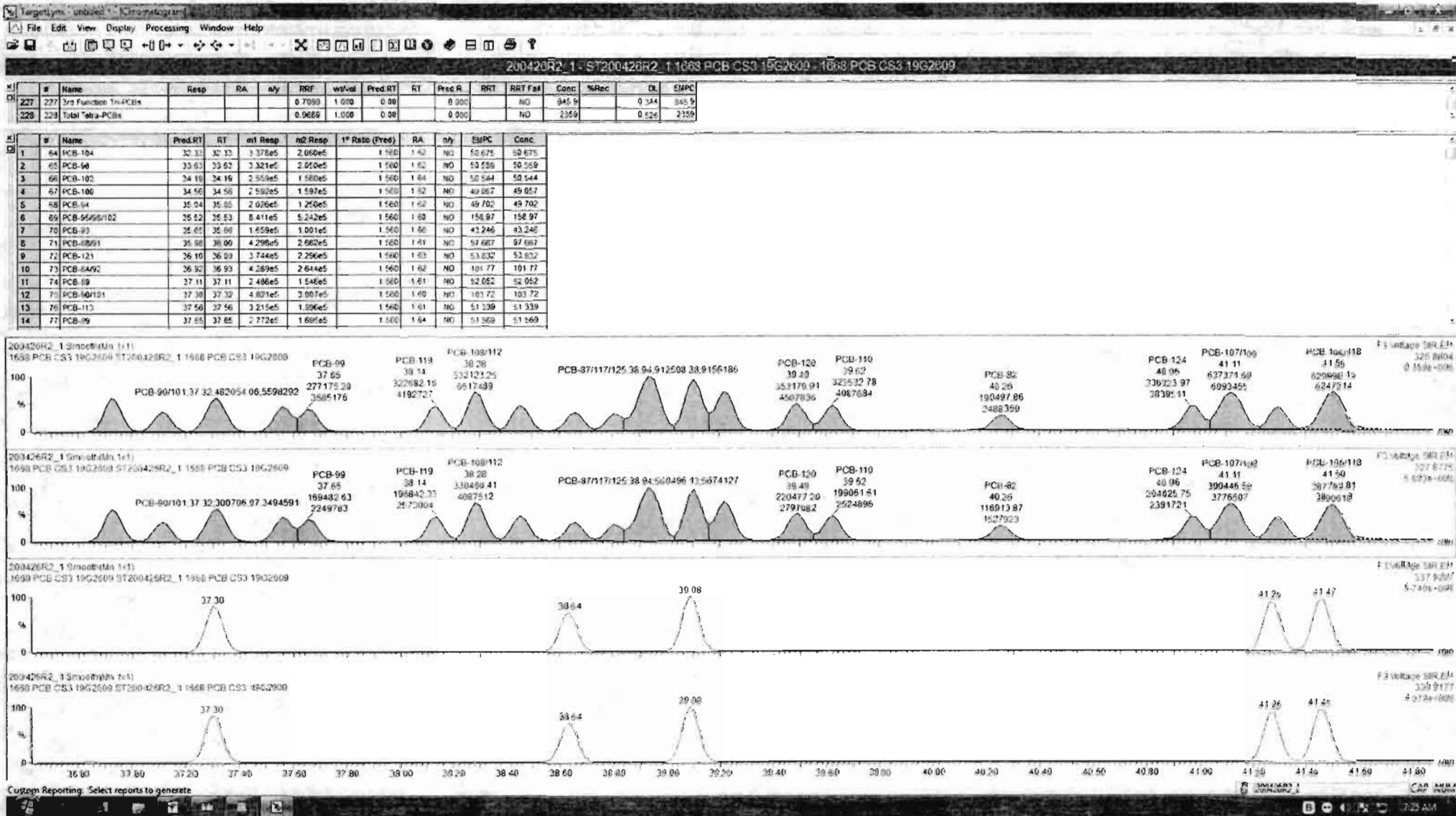
13C-PCB-111

200426R2\_1



200426R2\_1



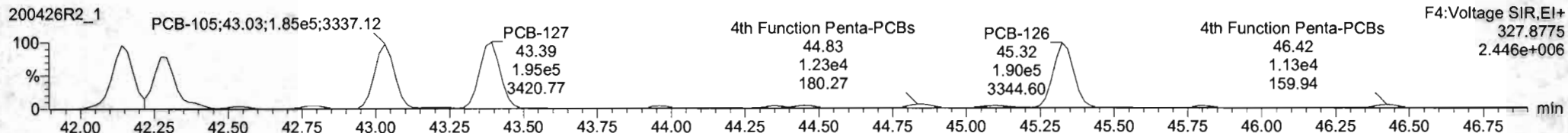
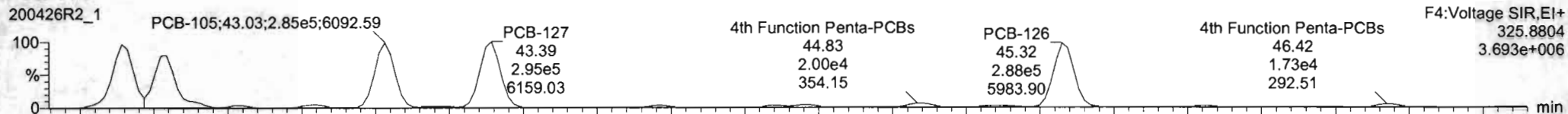


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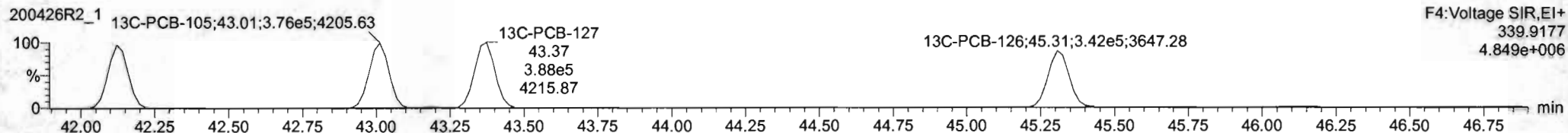
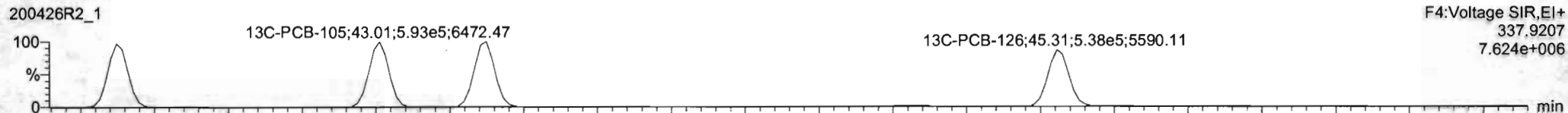
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Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

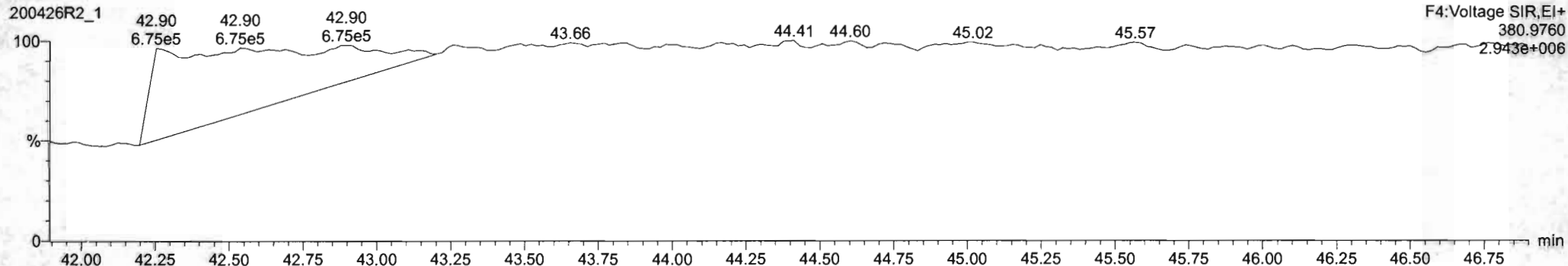
**PCB-114**

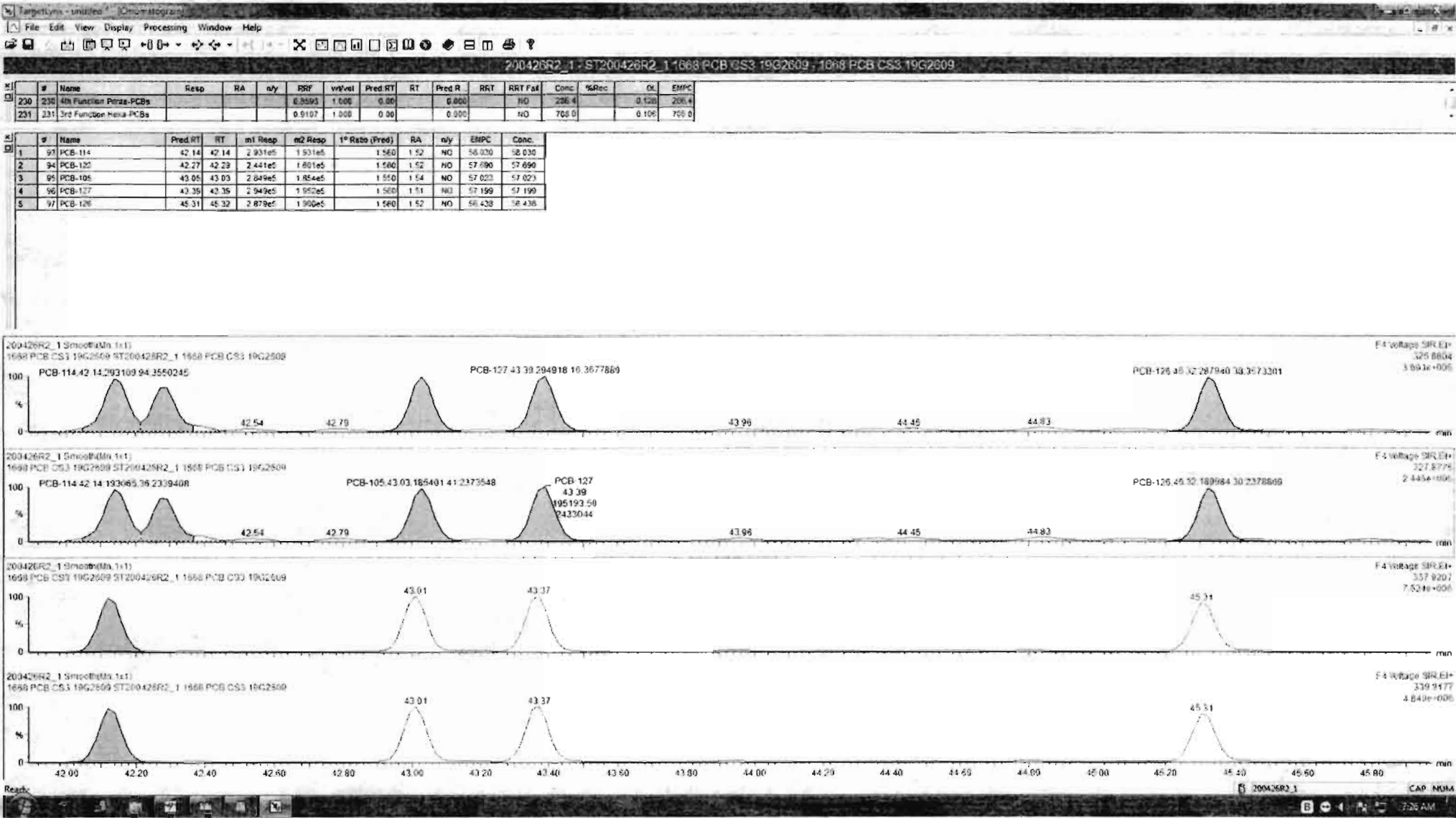


**13C-PCB-114**



**PFK4a**





Dataset: Untitled

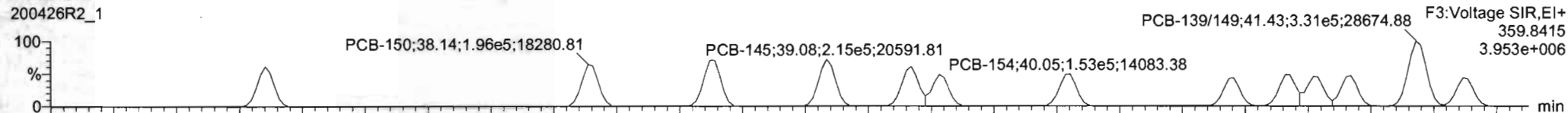
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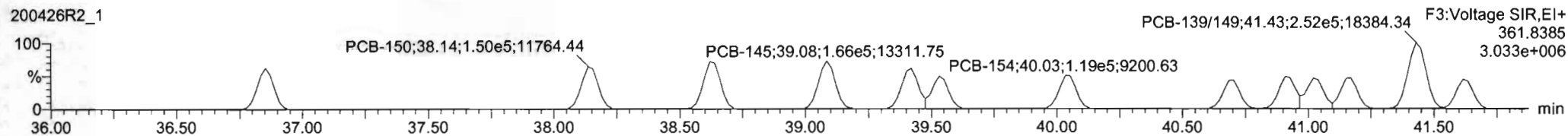
Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

**PCB-155**

200426R2\_1

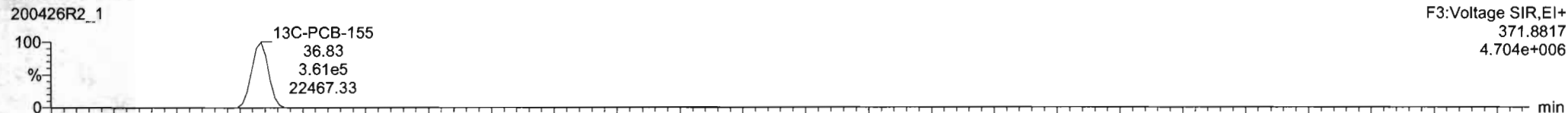


200426R2\_1

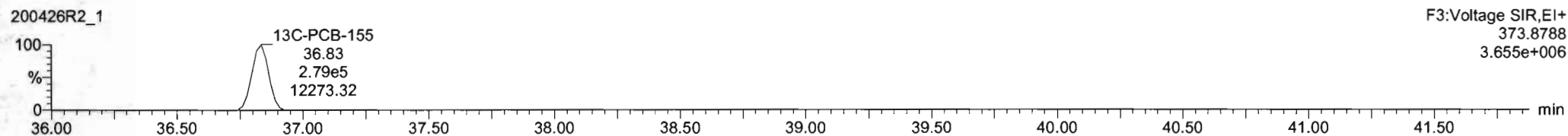


**13C-PCB-155**

200426R2\_1

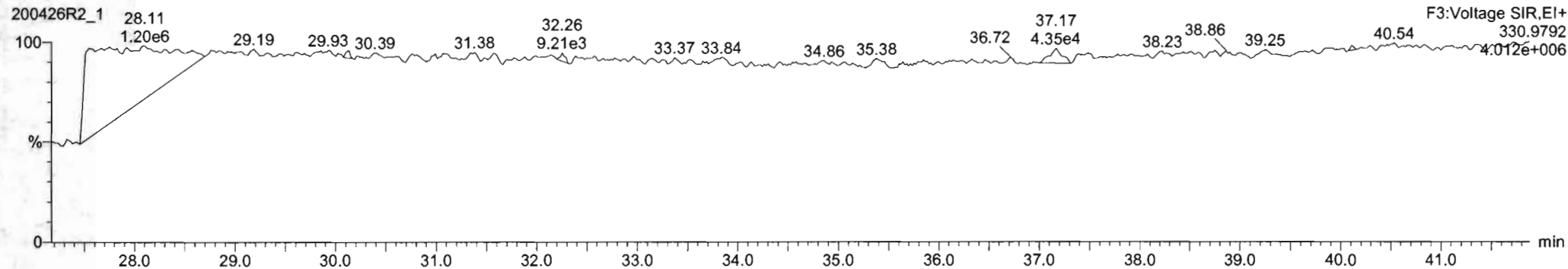


200426R2\_1



**PFK3d**

200426R2\_1



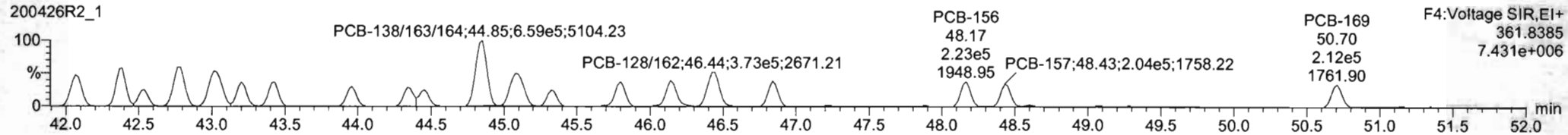
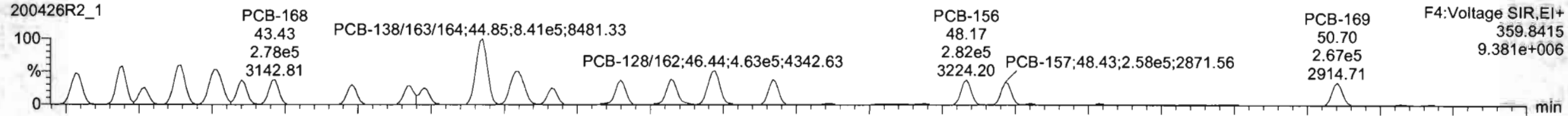


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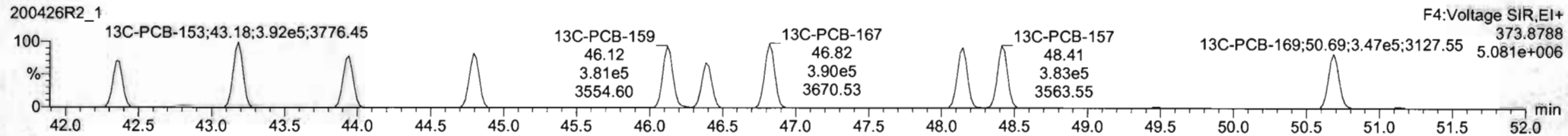
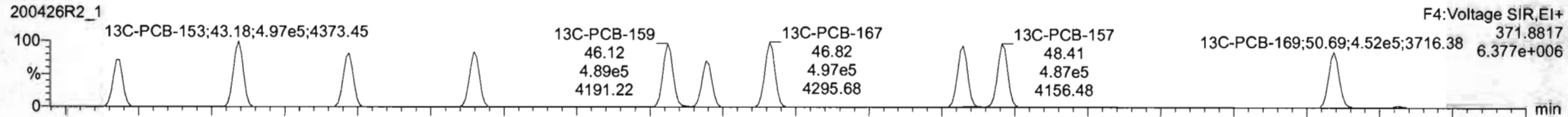
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Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

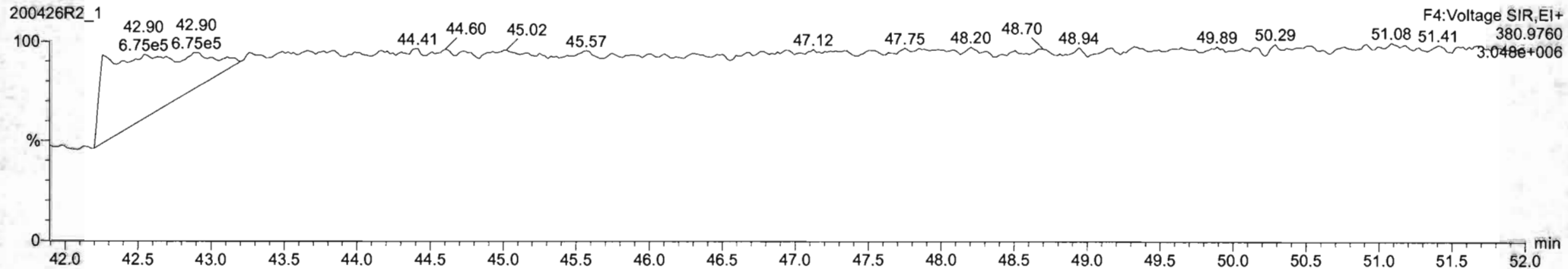
**PCB-134/143**



**13C-PCB-153**

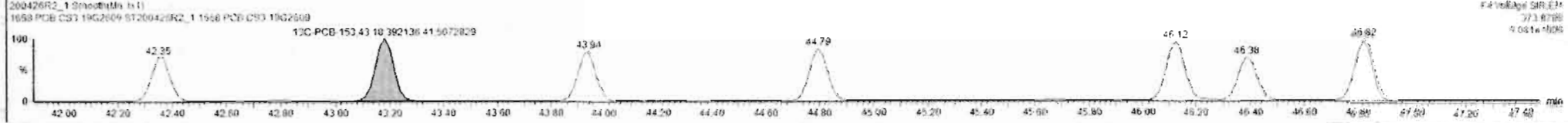
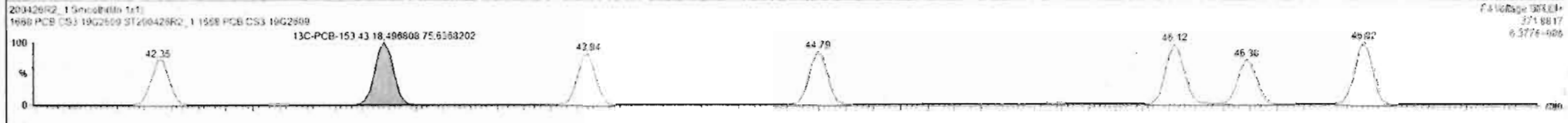
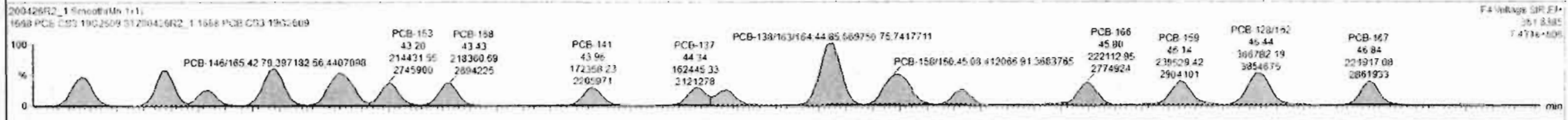
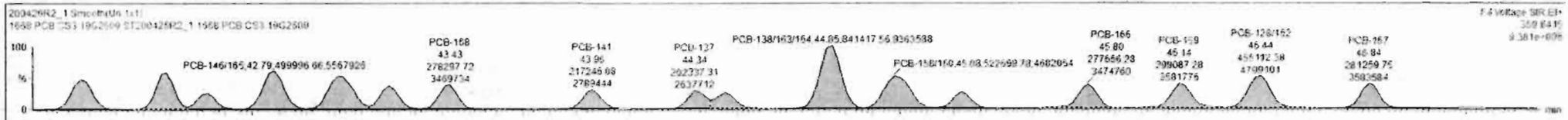


**PFK4b**



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fac	Conc	%Rec	DL	EMPC
230	4th Function Penta PCBs				0.8563	1.000	0.96		0.000		NO	206.4		0.126	206.4
231	3rd Function Hexa PCBs				0.9107	1.000	0.90		0.000		NO	708.0		0.166	708.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	111 PCB-134/143	42.08	42.07	3.899e5	3.067e5	1.240	1.27	NO	119.93	119.93
2	112 PCB-131/133	42.39	42.39	4.167e5	3.307e5	1.240	1.26	NO	124.25	124.25
3	113 PCB-142	42.54	42.54	1.825e5	1.425e5	1.240	1.27	NO	59.751	59.751
4	114 PCB-146/165	42.75	42.75	5.000e5	3.972e5	1.240	1.26	NO	120.68	120.68
5	115 PCB-132/161	43.03	43.01	5.188e5	4.152e5	1.240	1.25	NO	115.74	115.74
6	116 PCB-152	43.22	43.20	2.711e5	2.144e5	1.240	1.26	NO	54.554	54.554
7	117 PCB-166	43.43	43.43	2.783e5	2.184e5	1.240	1.27	NO	55.681	55.681
8	118 PCB-141	43.98	43.98	2.172e5	1.724e5	1.240	1.26	NO	55.223	55.223
9	119 PCB-137	44.36	44.34	2.023e5	1.624e5	1.240	1.25	NO	54.955	54.955
10	120 PCB-130	44.45	44.45	1.927e5	1.501e5	1.240	1.26	NO	58.729	58.729
11	121 PCB-138/163/164	44.82	44.85	8.414e5	6.696e5	1.240	1.26	NO	167.89	167.89
12	122 PCB-158/160	45.08	45.08	5.237e5	4.121e5	1.240	1.27	NO	111.90	111.90
13	123 PCB-129	45.34	45.32	1.887e5	1.429e5	1.240	1.26	NO	55.876	55.876



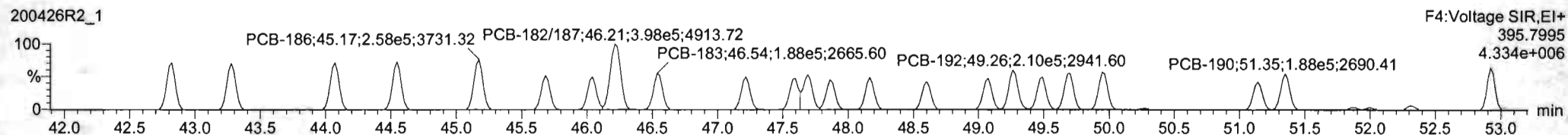
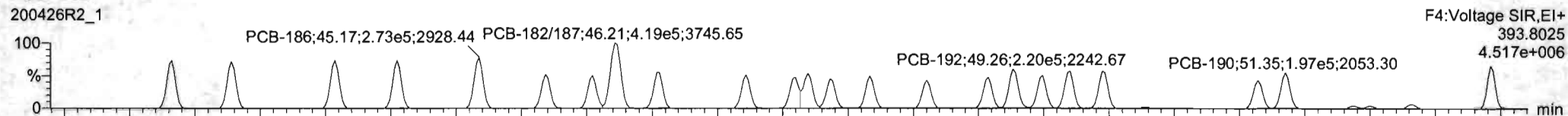
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Last Altered: Monday, April 27, 2020 07:33:54 Pacific Daylight Time

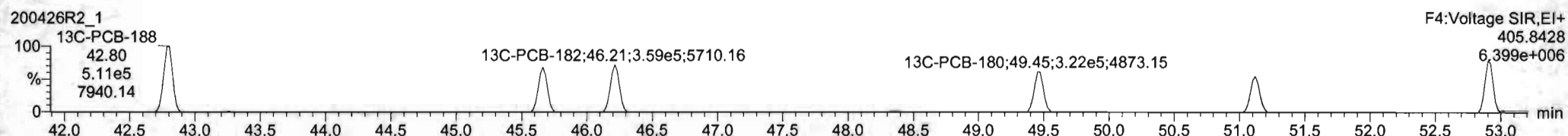
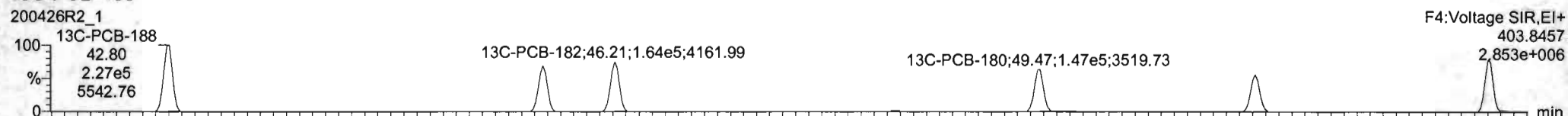
Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

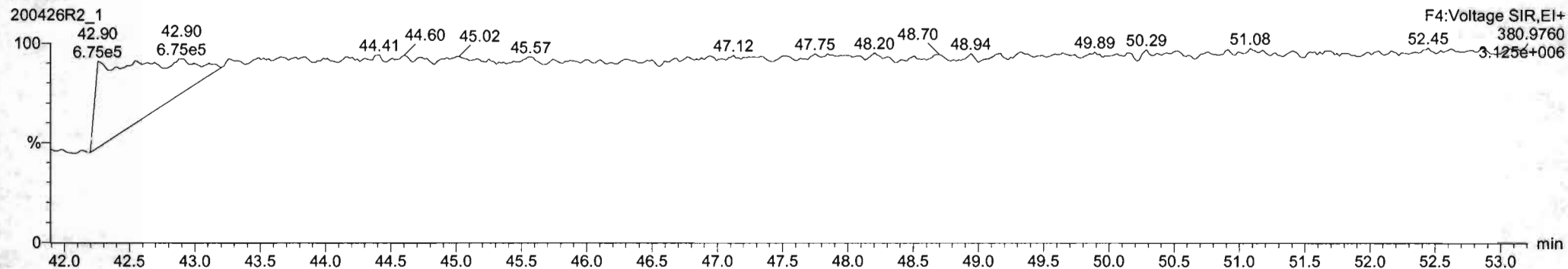
**PCB-188**



**13C-PCB-188**



**PFK4c**



Dataset: Untitled

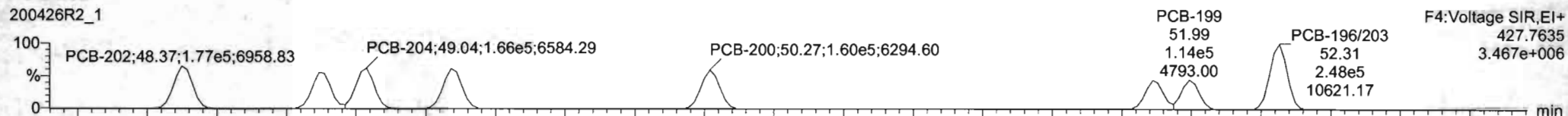
Last Altered: Monday, April 27, 2020 07:33:54 Pacific Daylight Time

Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

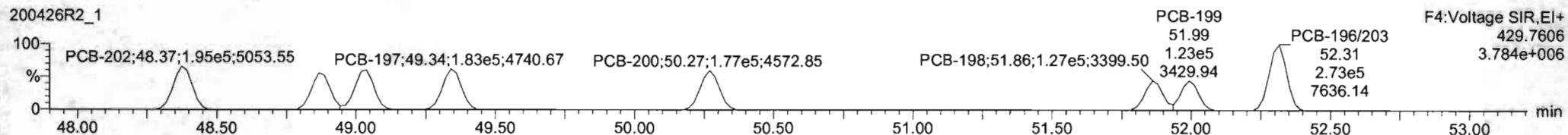
Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

**PCB-202**

200426R2\_1

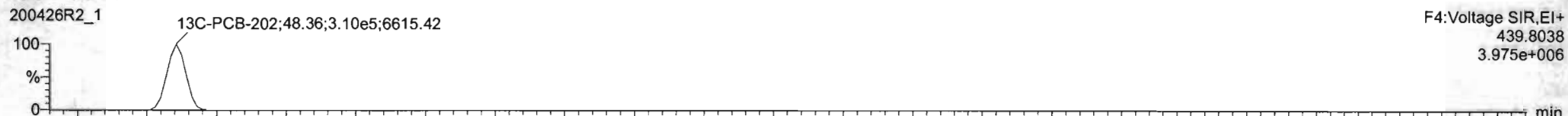


200426R2\_1

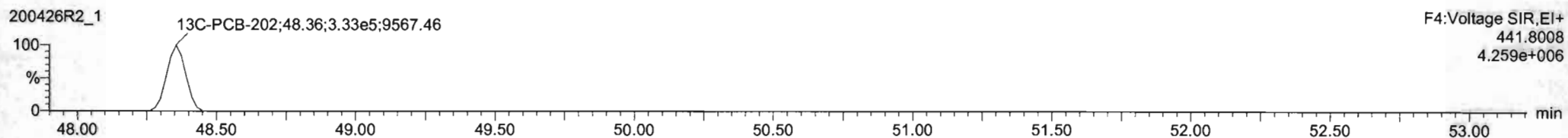


**13C-PCB-202**

200426R2\_1

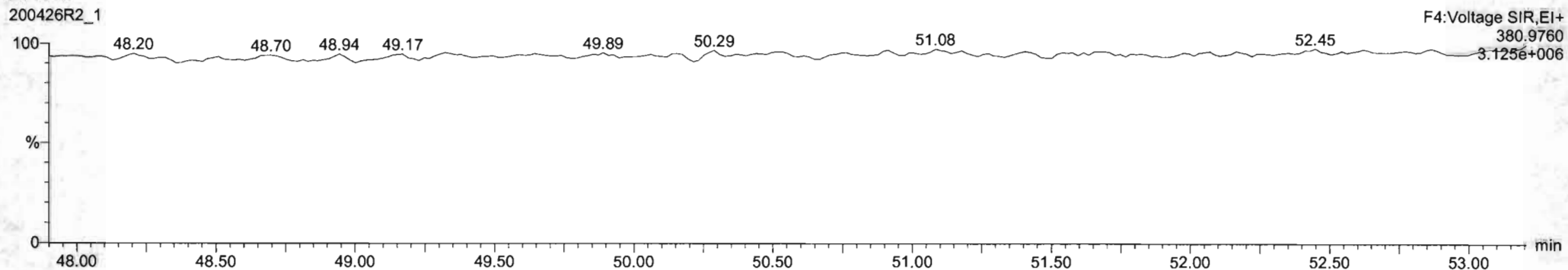


200426R2\_1



**PFK4d**

200426R2\_1



Dataset: Untitled

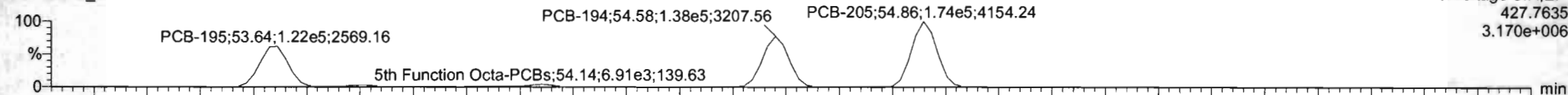
Last Altered: Monday, April 27, 2020 07:33:54 Pacific Daylight Time

Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

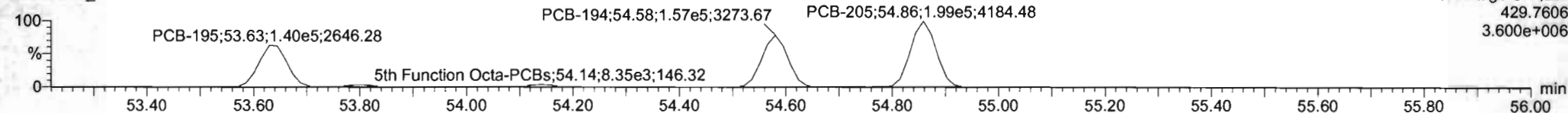
Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

**PCB-195**

200426R2\_1

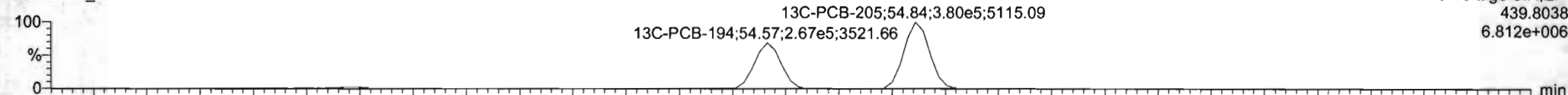


200426R2\_1

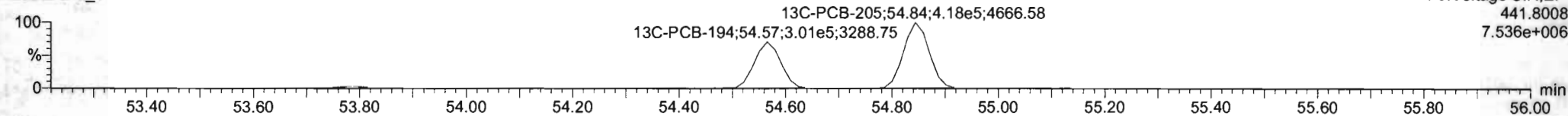


**13C-PCB-194**

200426R2\_1

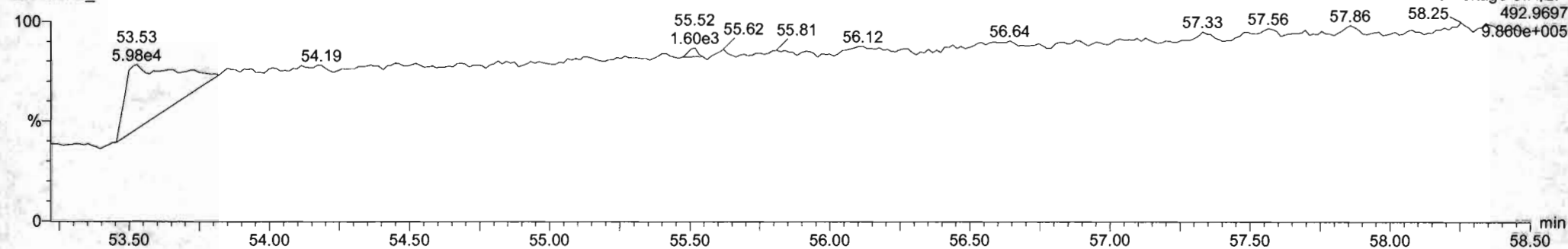


200426R2\_1



**PFK5**

200426R2\_1



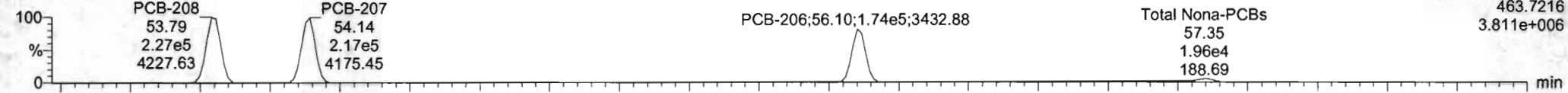
Dataset: Untitled

Last Altered: Monday, April 27, 2020 07:33:54 Pacific Daylight Time  
Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

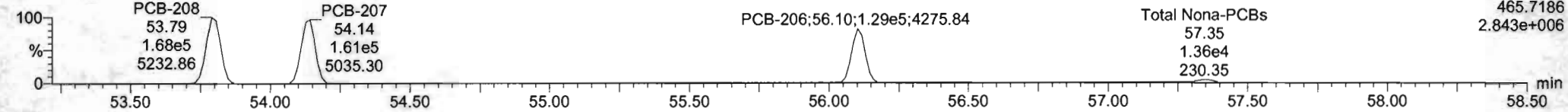
**PCB-208**

200426R2\_1



F5:Voltage SIR,EI+  
463.7216  
3.811e+006

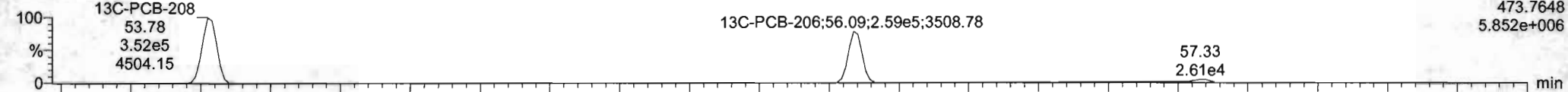
200426R2\_1



F5:Voltage SIR,EI+  
465.7186  
2.843e+006

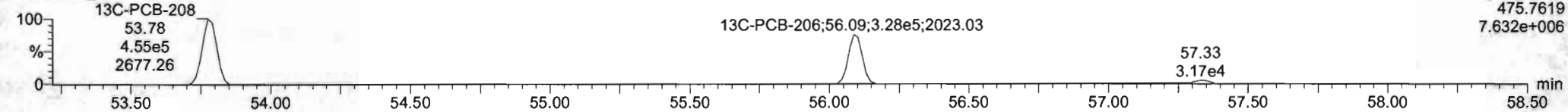
**13C-PCB-208**

200426R2\_1



F5:Voltage SIR,EI+  
473.7648  
5.852e+006

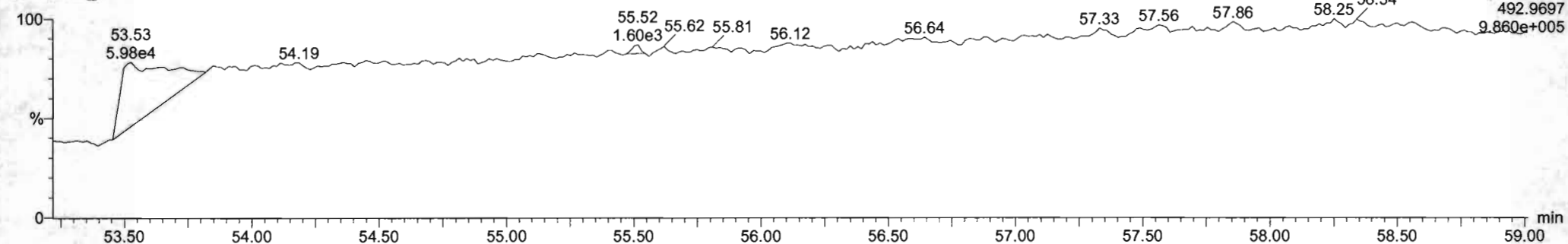
200426R2\_1



F5:Voltage SIR,EI+  
475.7619  
7.632e+006

**PFK5a**

200426R2\_1



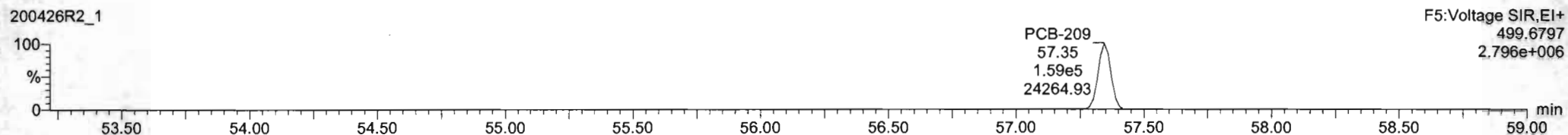
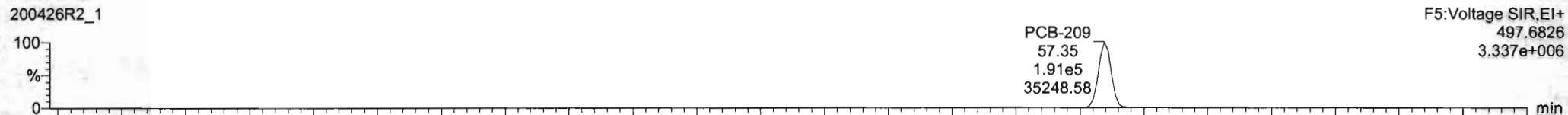
F5:Voltage SIR,EI+  
492.9697  
9.860e+005

Dataset: Untitled

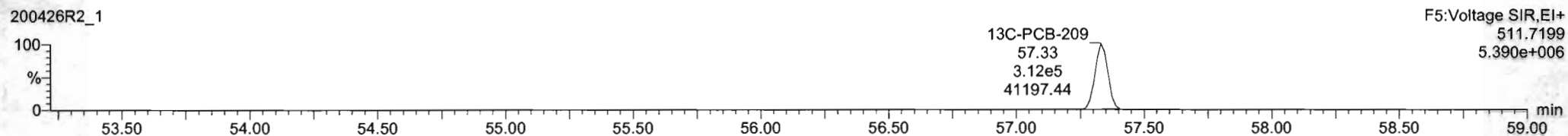
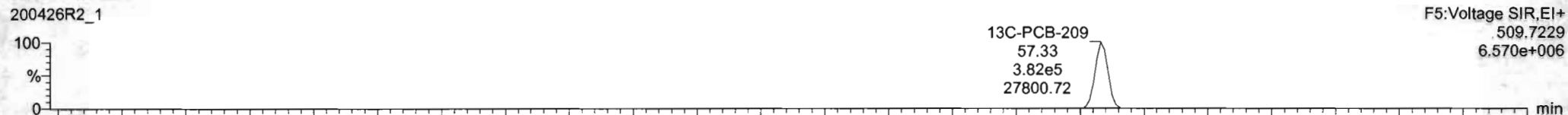
Last Altered: Monday, April 27, 2020 07:33:54 Pacific Daylight Time  
Printed: Monday, April 27, 2020 07:33:58 Pacific Daylight Time

Name: 200426R2\_1, Date: 26-Apr-2020, Time: 23:59:18, ID: ST200426R2\_1 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

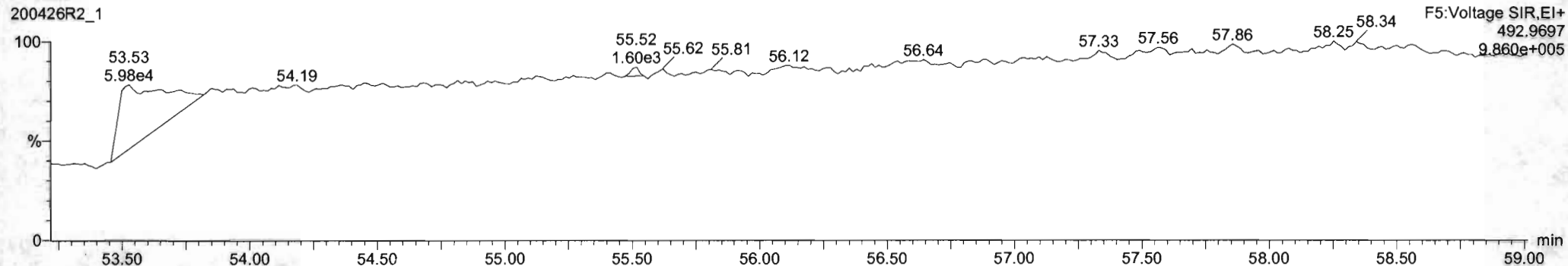
**PCB-209**



**13C-PCB-209**

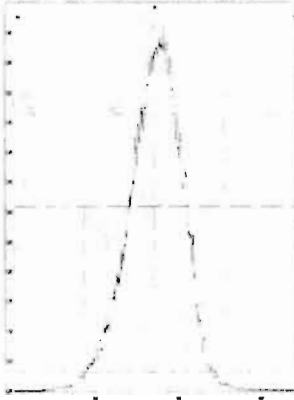


**PFK5b**

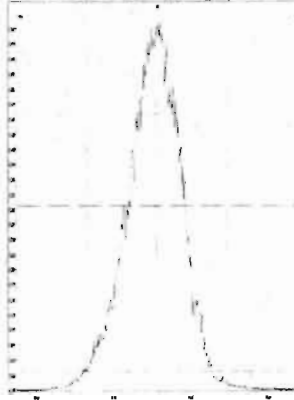


Printed: Monday, April 27, 2020 05:10:04 Pacific Daylight Time

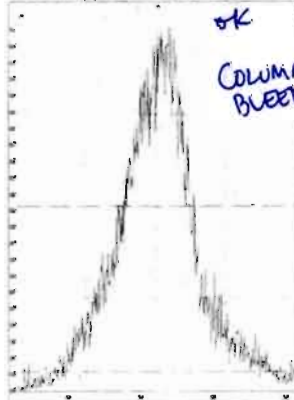
M 168.9888 R 11320



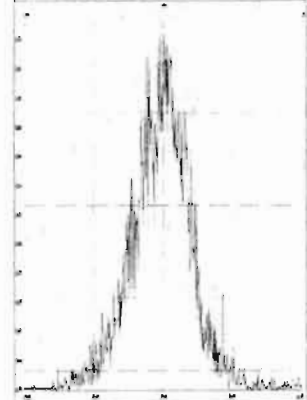
M 180.9888 R 10845



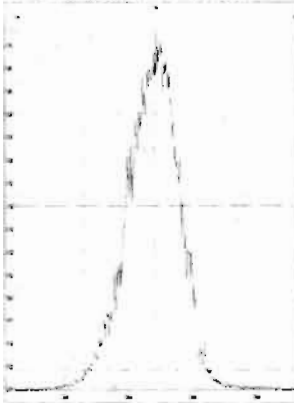
M 192.9888 R 7486



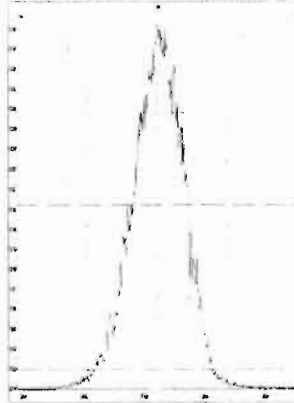
M 204.9888 R 11938



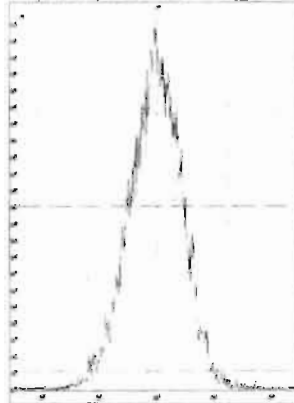
M 218.9856 R 11682



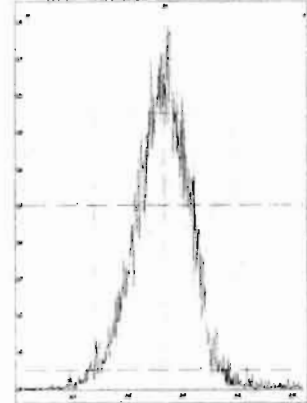
M 230.9856 R 12149



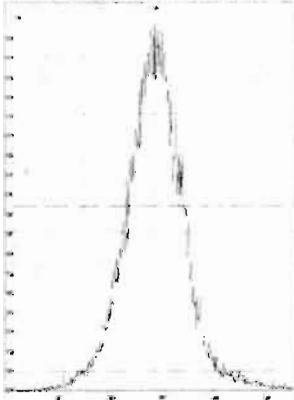
M 242.9856 R 11765



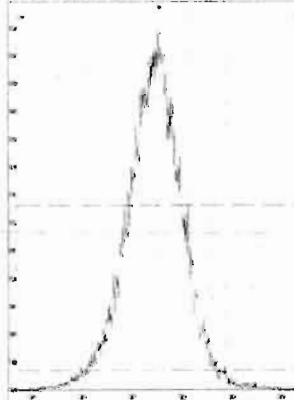
M 254.9856 R 12029



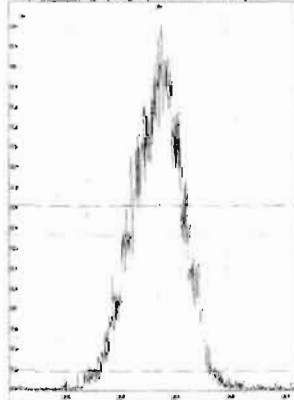
M 268.9824 R 10780



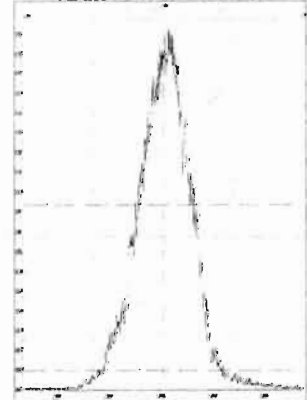
M 280.9824 R 10460



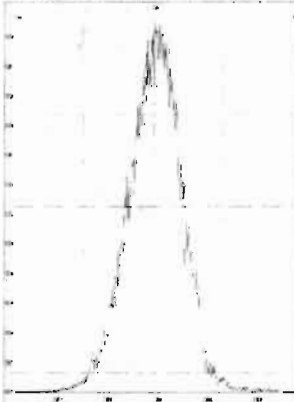
M 254.9856 R 12661



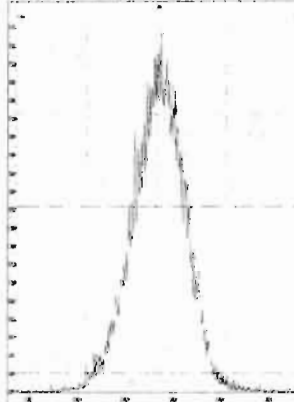
M 268.9824 R 11629



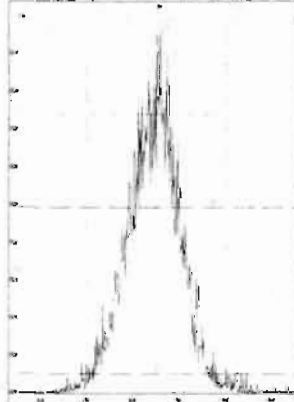
M 280.9824 R 11737



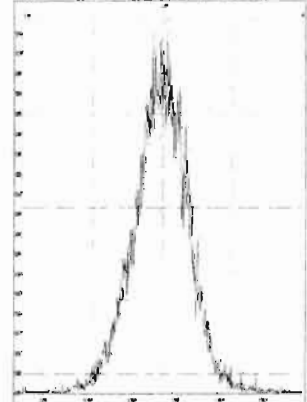
M 292.9824 R 11711



M 304.9824 R 12457



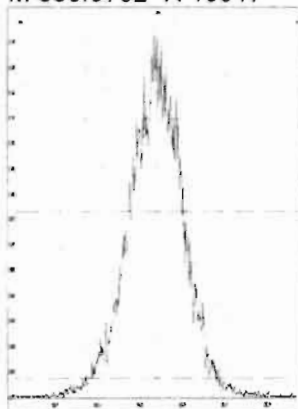
M 318.9792 R 11948



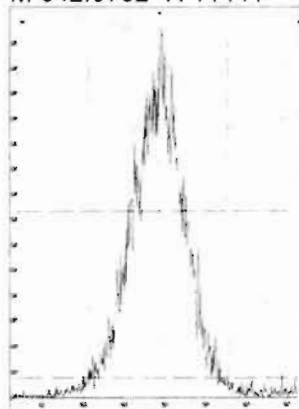


Printed: Monday, April 27, 2020 05:10:04 Pacific Daylight Time

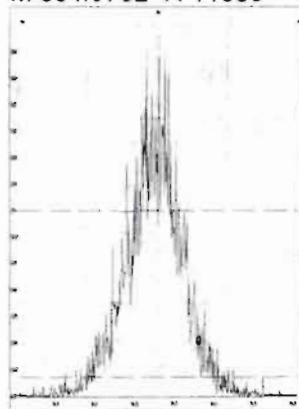
M 330.9792 R 10917



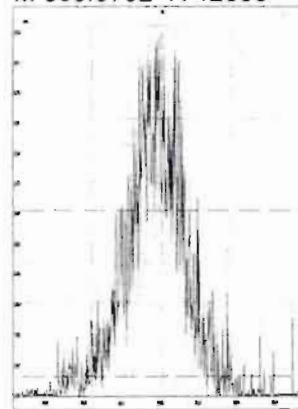
M 342.9792 R 11441



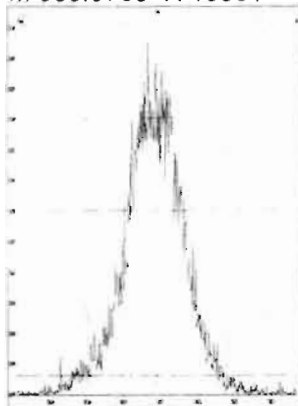
M 354.9792 R 11805



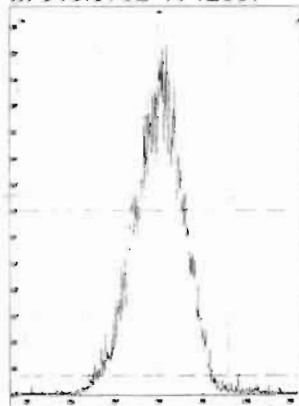
M 366.9792 R 12886



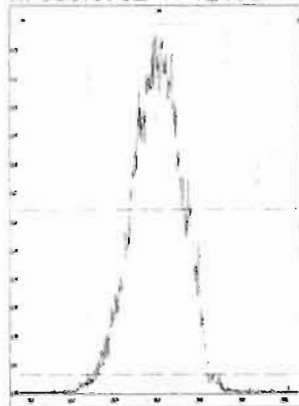
M 380.9760 R 10381



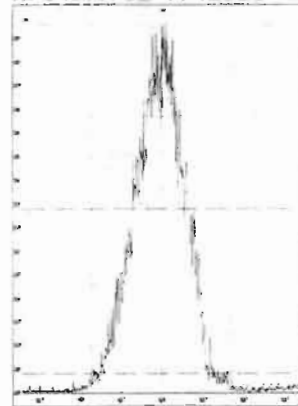
M 318.9792 R 12867



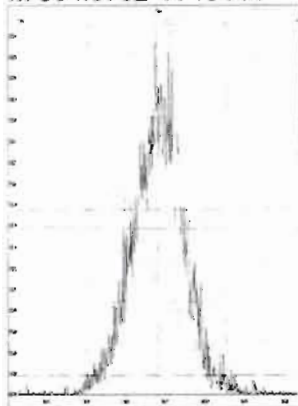
M 330.9792 R 12408



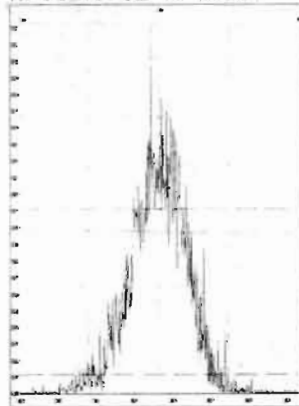
M 342.9792 R 12628



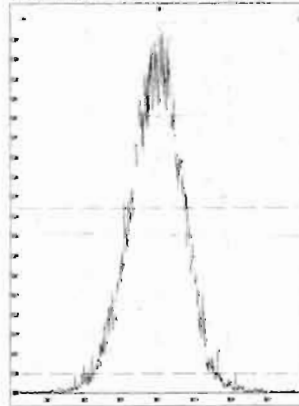
M 354.9792 R 13444



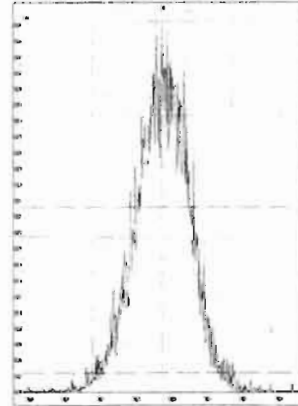
M 366.9792 R 13001



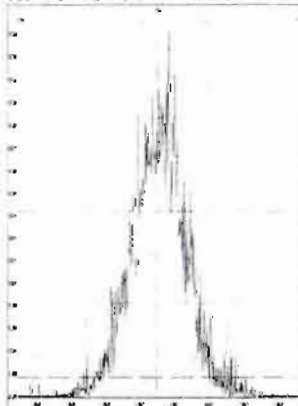
M 380.9760 R 11908



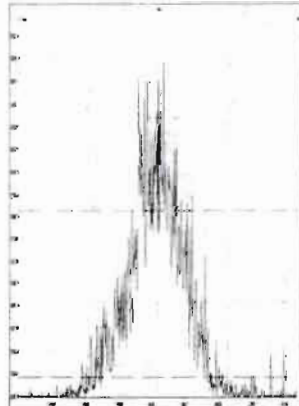
M 392.9760 R 12524



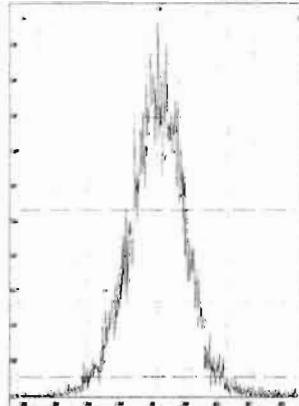
M 404.9760 R 12894



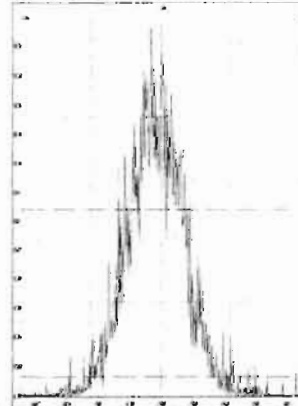
M 416.9760 R 14189



M 430.9728 R 12020

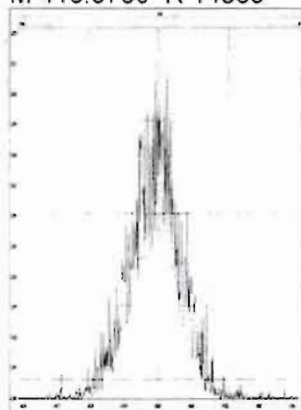


M 442.9728 R 13026

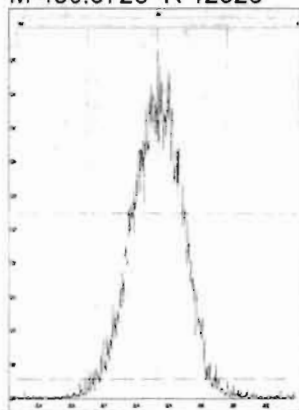


Printed: Monday, April 27, 2020 05:10:04 Pacific Daylight Time

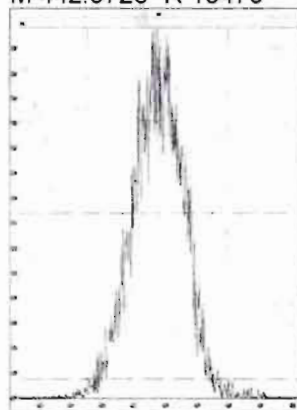
M 416.9760 R 14369



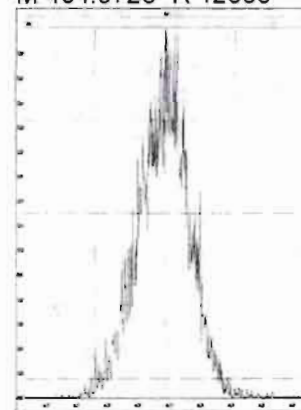
M 430.9728 R 12926



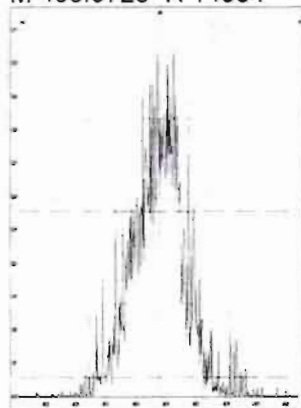
M 442.9728 R 13479



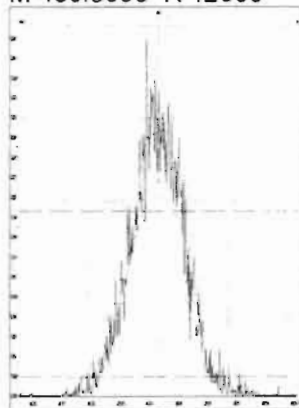
M 454.9728 R 12565



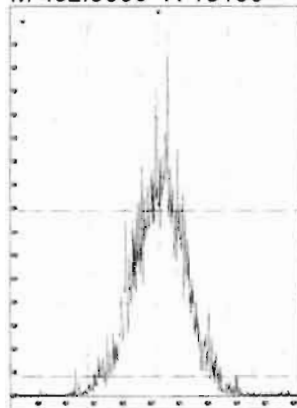
M 466.9728 R 14584



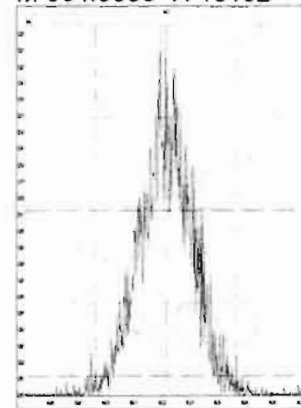
M 480.9696 R 12600



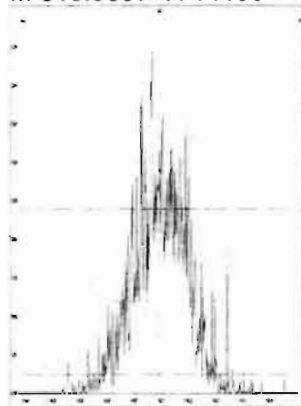
M 492.9696 R 13160



M 504.9696 R 13192



M 516.9697 R 14169



## **INITIAL CALIBRATION**

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

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

Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

GRB 04/30/2020

CT 04/30/2020

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

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

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

Response Factor: 0.947465

RRF SD: 0.050672, Relative SD: 5.34817

Response type: Internal Std ( Ref 18 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	0.250	0.81	NO	26.07	1.002	3.67e3	1.71e6	0.227	-9.3	0.859	MM
2	200429R2_2	0.500	0.73	NO	26.05	1.001	6.88e3	1.49e6	0.486	-2.8	0.921	MM
3	200429R2_3	2.00	0.80	NO	26.05	1.001	2.77e4	1.43e6	2.04	2.1	0.968	MM
4	200429R2_4	10.0	0.76	NO	26.07	1.001	1.43e5	1.49e6	10.1	0.8	0.955	db
5	200429R2_5	40.0	0.79	NO	26.07	1.001	6.85e5	1.74e6	41.5	3.8	0.983	bb
6	200429R2_6	300	0.78	NO	26.05	1.001	6.08e6	2.03e6	316	5.4	0.998	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.942465

RRF SD: 0.0519271, Relative SD: 5.50971

Response type: Internal Std ( Ref 19 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	0.59	NO	31.13	1.000	1.26e4	1.18e6	1.13	-9.9	0.849	MM
2	200429R2_2	2.50	0.61	NO	31.14	1.000	2.41e4	1.02e6	2.49	-0.4	0.939	bb
3	200429R2_3	10.0	0.62	NO	31.13	1.000	9.99e4	9.92e5	10.7	6.8	1.01	bb
4	200429R2_4	50.0	0.62	NO	31.13	1.000	5.37e5	1.14e6	49.9	-0.2	0.941	bb
5	200429R2_5	200	0.63	NO	31.14	1.000	2.46e6	1.29e6	202	1.0	0.952	bb
6	200429R2_6	1500	0.63	NO	31.13	1.000	2.34e7	1.61e6	1540	2.6	0.967	bb

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

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time  
 Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.06409

RRF SD: 0.0704393, Relative SD: 6.61967

Response type: Internal Std ( Ref 20 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.23	NO	34.49	1.000	1.06e4	9.05e5	1.10	-12.2	0.934	bd
2	200429R2_2	2.50	1.24	NO	34.51	1.000	2.05e4	7.45e5	2.58	3.2	1.10	bd
3	200429R2_3	10.0	1.25	NO	34.49	1.000	8.24e4	7.52e5	10.3	3.1	1.10	bd
4	200429R2_4	50.0	1.22	NO	34.51	1.000	4.42e5	8.49e5	48.9	-2.2	1.04	MM
5	200429R2_5	200	1.23	NO	34.51	1.000	2.14e6	9.92e5	203	1.5	1.08	bd
6	200429R2_6	1500	1.23	NO	34.49	1.000	2.19e7	1.29e6	1600	6.6	1.13	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 0.914514

RRF SD: 0.0597197, Relative SD: 6.53021

Response type: Internal Std ( Ref 21 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.18	NO	34.60	1.000	1.19e4	1.16e6	1.12	-10.3	0.820	db
2	200429R2_2	2.50	1.19	NO	34.60	1.000	2.18e4	9.85e5	2.42	-3.1	0.886	db
3	200429R2_3	10.0	1.26	NO	34.60	1.000	9.42e4	9.49e5	10.8	8.4	0.992	db
4	200429R2_4	50.0	1.20	NO	34.60	1.000	4.89e5	1.08e6	49.6	-0.9	0.906	MM
5	200429R2_5	200	1.23	NO	34.61	1.000	2.38e6	1.24e6	210	5.0	0.960	db
6	200429R2_6	1500	1.24	NO	34.60	1.001	2.35e7	1.70e6	1510	0.9	0.922	db

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 0.914931

RRF SD: 0.0698725, Relative SD: 7.63691

Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.17	NO	34.87	1.000	9.95e3	1.02e6	1.07	-14.6	0.782	MM
2	200429R2_2	2.50	1.21	NO	34.88	1.000	1.98e4	8.50e5	2.55	1.9	0.933	MM

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**Compound name: 1,2,3,7,8,9-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	1.24	NO	34.88	1.001	8.11e4	8.34e5	10.6	6.3	0.973	bb
4	200429R2_4	50.0	1.24	NO	34.88	1.000	4.19e5	9.34e5	49.1	-1.8	0.898	bb
5	200429R2_5	200	1.24	NO	34.89	1.001	2.07e6	1.09e6	208	4.2	0.953	bb
6	200429R2_6	1500	1.23	NO	34.87	1.000	2.08e7	1.46e6	1560	4.0	0.951	bb

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.897908

RRF SD: 0.0622499, Relative SD: 6.93277

Response type: Internal Std ( Ref 23 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.08	NO	38.38	1.001	7.93e3	8.17e5	1.08	-13.5	0.777	bb
2	200429R2_2	2.50	1.01	NO	38.37	1.000	1.48e4	6.60e5	2.50	-0.2	0.896	MM
3	200429R2_3	10.0	1.08	NO	38.36	1.000	5.91e4	6.39e5	10.3	3.1	0.925	bd
4	200429R2_4	50.0	0.99	NO	38.38	1.000	3.08e5	6.79e5	50.5	1.0	0.907	bb
5	200429R2_5	200	1.02	NO	38.38	1.000	1.52e6	8.11e5	208	4.1	0.934	bb
6	200429R2_6	1500	1.02	NO	38.37	1.001	1.60e7	1.13e6	1580	5.6	0.948	bb

**Compound name: OCDD**

Response Factor: 0.93349

RRF SD: 0.0706604, Relative SD: 7.56949

Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	2.50	0.86	NO	41.35	1.000	1.41e4	1.42e6	2.13	-14.8	0.796	MM
2	200429R2_2	5.00	0.91	NO	41.35	1.000	2.79e4	1.21e6	4.96	-0.8	0.926	bd
3	200429R2_3	20.0	0.88	NO	41.34	1.000	1.08e5	1.10e6	21.2	5.8	0.988	MM
4	200429R2_4	100	0.88	NO	41.35	1.000	5.63e5	1.18e6	102	2.5	0.957	MM
5	200429R2_5	400	0.90	NO	41.35	1.000	2.87e6	1.50e6	411	2.7	0.959	MM
6	200429R2_6	3000	0.89	NO	41.34	1.000	3.39e7	2.31e6	3140	4.6	0.976	MM

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

Response Factor: 0.787102

RRF SD: 0.0402419, Relative SD: 5.11266

Response type: Internal Std ( Ref 25 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	0.250	0.82	NO	25.09	1.001	4.51e3	2.52e6	0.228	-8.9	0.717	MM
2	200429R2_2	0.500	0.75	NO	25.11	1.001	8.73e3	2.22e6	0.501	0.1	0.788	MM
3	200429R2_3	2.00	0.74	NO	25.11	1.001	3.42e4	2.09e6	2.08	4.1	0.820	bb
4	200429R2_4	10.0	0.74	NO	25.11	1.001	1.65e5	2.15e6	9.76	-2.4	0.768	bb
5	200429R2_5	40.0	0.75	NO	25.12	1.001	8.12e5	2.52e6	41.0	2.4	0.806	bb
6	200429R2_6	300	0.75	NO	25.09	1.001	7.19e6	2.91e6	314	4.7	0.824	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 0.910199

RRF SD: 0.0533229, Relative SD: 5.85838

Response type: Internal Std ( Ref 26 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.63	NO	29.81	1.000	1.97e4	1.94e6	1.12	-10.8	0.812	MM
2	200429R2_2	2.50	1.54	NO	29.83	1.000	3.85e4	1.69e6	2.50	0.1	0.911	MM
3	200429R2_3	10.0	1.57	NO	29.81	1.000	1.60e5	1.64e6	10.7	7.0	0.974	bb
4	200429R2_4	50.0	1.59	NO	29.81	1.000	8.46e5	1.86e6	50.0	0.0	0.910	bb
5	200429R2_5	200	1.55	NO	29.83	1.000	3.84e6	2.07e6	203	1.7	0.926	bb
6	200429R2_6	1500	1.56	NO	29.81	1.000	3.59e7	2.58e6	1530	1.9	0.928	bb

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 0.96636

RRF SD: 0.0480881, Relative SD: 4.97621

Response type: Internal Std ( Ref 27 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.49	NO	30.80	1.000	2.03e4	1.84e6	1.14	-8.8	0.881	MM
2	200429R2_2	2.50	1.53	NO	30.82	1.000	3.90e4	1.62e6	2.50	-0.1	0.966	MM

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Compound name: 2,3,4,7,8-PeCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	1.60	NO	30.80	1.000	1.61e5	1.57e6	10.6	6.4	1.03	bb
4	200429R2_4	50.0	1.56	NO	30.80	1.000	8.75e5	1.82e6	49.8	-0.4	0.962	bb
5	200429R2_5	200	1.55	NO	30.82	1.000	3.97e6	2.01e6	204	2.1	0.987	bb
6	200429R2_6	1500	1.54	NO	30.81	1.000	3.66e7	2.51e6	1510	0.7	0.973	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.878238

RRF SD: 0.066642, Relative SD: 7.58815

Response type: Internal Std ( Ref 28 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.13	NO	33.64	1.001	1.14e4	1.22e6	1.06	-14.9	0.748	bd
2	200429R2_2	2.50	1.21	NO	33.64	1.000	2.26e4	1.02e6	2.52	0.9	0.886	bd
3	200429R2_3	10.0	1.22	NO	33.63	1.000	9.51e4	1.02e6	10.6	6.4	0.935	bd
4	200429R2_4	50.0	1.22	NO	33.64	1.000	5.03e5	1.13e6	50.6	1.1	0.888	bd
5	200429R2_5	200	1.19	NO	33.64	1.000	2.34e6	1.31e6	204	2.1	0.896	bd
6	200429R2_6	1500	1.19	NO	33.63	1.000	2.35e7	1.71e6	1570	4.4	0.917	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 0.873971

RRF SD: 0.0632141, Relative SD: 7.23298

Response type: Internal Std ( Ref 29 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.23	NO	33.76	1.001	1.35e4	1.41e6	1.09	-12.6	0.763	MM
2	200429R2_2	2.50	1.19	NO	33.76	1.000	2.55e4	1.18e6	2.46	-1.4	0.861	db
3	200429R2_3	10.0	1.20	NO	33.76	1.001	1.09e5	1.14e6	11.0	9.5	0.957	dd
4	200429R2_4	50.0	1.17	NO	33.76	1.000	5.58e5	1.26e6	50.6	1.2	0.885	db
5	200429R2_5	200	1.19	NO	33.77	1.001	2.62e6	1.46e6	205	2.7	0.897	db
6	200429R2_6	1500	1.19	NO	33.75	1.000	2.52e7	1.91e6	1510	0.7	0.880	db



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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 0.921711

RRF SD: 0.0708547, Relative SD: 7.6873

Response type: Internal Std ( Ref 30 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.14	NO	34.32	1.000	1.24e4	1.26e6	1.07	-14.7	0.786	bb
2	200429R2_2	2.50	1.16	NO	34.33	1.001	2.38e4	1.05e6	2.46	-1.5	0.908	MM
3	200429R2_3	10.0	1.22	NO	34.32	1.000	1.02e5	1.03e6	10.7	7.1	0.987	bb
4	200429R2_4	50.0	1.17	NO	34.33	1.000	5.42e5	1.14e6	51.6	3.2	0.951	bb
5	200429R2_5	200	1.19	NO	34.33	1.000	2.49e6	1.31e6	206	3.0	0.950	bb
6	200429R2_6	1500	1.19	NO	34.33	1.000	2.48e7	1.74e6	1540	2.9	0.948	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 0.864187

RRF SD: 0.0516808, Relative SD: 5.98028

Response type: Internal Std ( Ref 31 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.22	NO	35.21	1.000	9.52e3	9.91e5	1.11	-11.0	0.769	MM
2	200429R2_2	2.50	1.21	NO	35.21	1.000	1.86e4	8.77e5	2.45	-1.8	0.848	MM
3	200429R2_3	10.0	1.22	NO	35.21	1.000	7.78e4	8.59e5	10.5	4.9	0.906	bb
4	200429R2_4	50.0	1.17	NO	35.22	1.000	4.02e5	9.29e5	50.1	0.2	0.866	bb
5	200429R2_5	200	1.19	NO	35.22	1.000	1.99e6	1.11e6	207	3.7	0.896	bb
6	200429R2_6	1500	1.20	NO	35.21	1.000	1.98e7	1.47e6	1560	4.0	0.899	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.871204

RRF SD: 0.0656544, Relative SD: 7.53606

Response type: Internal Std ( Ref 32 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	0.99	NO	36.94	1.000	8.60e3	9.24e5	1.07	-14.5	0.745	MM
2	200429R2_2	2.50	1.00	NO	36.97	1.001	1.73e4	7.84e5	2.54	1.5	0.884	MM

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**Compound name: 1,2,3,4,6,7,8-HpCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	0.95	NO	36.96	1.000	6.95e4	7.69e5	10.4	3.7	0.903	MM
4	200429R2_4	50.0	0.96	NO	36.97	1.000	3.72e5	8.65e5	49.4	-1.2	0.861	bb
5	200429R2_5	200	0.99	NO	36.97	1.000	1.79e6	9.81e5	210	5.0	0.914	bb
6	200429R2_6	1500	0.99	NO	36.96	1.001	1.89e7	1.37e6	1580	5.5	0.919	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.01156

RRF SD: 0.0670054, Relative SD: 6.62397

Response type: Internal Std ( Ref 33 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	0.97	NO	38.95	1.000	6.68e3	5.96e5	1.11	-11.4	0.897	MM
2	200429R2_2	2.50	0.96	NO	38.95	1.000	1.20e4	4.92e5	2.41	-3.7	0.974	MM
3	200429R2_3	10.0	1.01	NO	38.95	1.000	4.94e4	4.72e5	10.4	3.5	1.05	MM
4	200429R2_4	50.0	1.00	NO	38.96	1.000	2.60e5	5.12e5	50.2	0.3	1.01	bb
5	200429R2_5	200	0.99	NO	38.96	1.000	1.29e6	6.09e5	209	4.7	1.06	bb
6	200429R2_6	1500	0.99	NO	38.94	1.000	1.43e7	8.85e5	1600	6.5	1.08	bb

**Compound name: OCDF**

Response Factor: 0.802147

RRF SD: 0.0574516, Relative SD: 7.16223

Response type: Internal Std ( Ref 34 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	2.50	0.84	NO	41.52	1.000	1.41e4	1.62e6	2.17	-13.4	0.695	MM
2	200429R2_2	5.00	0.85	NO	41.52	1.000	2.74e4	1.40e6	4.88	-2.4	0.783	MM
3	200429R2_3	20.0	0.88	NO	41.52	1.000	1.07e5	1.27e6	21.0	5.0	0.842	bb
4	200429R2_4	100	0.86	NO	41.53	1.000	5.36e5	1.32e6	101	1.3	0.813	bb
5	200429R2_5	400	0.87	NO	41.53	1.000	2.84e6	1.69e6	420	5.0	0.842	bb
6	200429R2_6	3000	0.87	NO	41.52	1.000	3.30e7	2.63e6	3130	4.4	0.838	bb

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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.15948

RRF SD: 0.103741, Relative SD: 8.94721

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.79	NO	26.02	1.027	1.71e6	1.32e6	112	11.9	1.30	bb
2	200429R2_2	100	0.79	NO	26.03	1.027	1.49e6	1.44e6	89.7	-10.3	1.04	bb
3	200429R2_3	100	0.80	NO	26.02	1.026	1.43e6	1.38e6	89.4	-10.6	1.04	bb
4	200429R2_4	100	0.80	NO	26.03	1.027	1.49e6	1.28e6	100	0.3	1.16	bb
5	200429R2_5	100	0.79	NO	26.03	1.027	1.74e6	1.45e6	103	3.3	1.20	MM
6	200429R2_6	100	0.79	NO	26.02	1.027	2.03e6	1.66e6	105	5.4	1.22	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.847234

RRF SD: 0.105802, Relative SD: 12.488

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.64	NO	31.11	1.227	1.18e6	1.32e6	106	6.2	0.900	bb
2	200429R2_2	100	0.65	NO	31.13	1.227	1.02e6	1.44e6	84.2	-15.8	0.713	bb
3	200429R2_3	100	0.64	NO	31.11	1.227	9.92e5	1.38e6	84.9	-15.1	0.719	bb
4	200429R2_4	100	0.65	NO	31.11	1.227	1.14e6	1.28e6	105	5.0	0.889	bb
5	200429R2_5	100	0.63	NO	31.13	1.227	1.29e6	1.45e6	105	5.1	0.890	bb
6	200429R2_6	100	0.64	NO	31.11	1.227	1.61e6	1.66e6	115	14.6	0.971	bb

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

Response Factor: 0.749916

RRF SD: 0.0958664, Relative SD: 12.7836

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.27	NO	34.48	1.014	9.05e5	1.10e6	109	9.5	0.821	bd
2	200429R2_2	100	1.30	NO	34.49	1.014	7.45e5	1.19e6	83.5	-16.5	0.626	bd

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	1.29	NO	34.48	1.014	7.52e5	1.15e6	87.1	-12.9	0.653	bd
4	200429R2_4	100	1.29	NO	34.49	1.014	8.49e5	1.15e6	98.6	-1.4	0.739	bd
5	200429R2_5	100	1.28	NO	34.49	1.014	9.92e5	1.26e6	105	5.3	0.790	bd
6	200429R2_6	100	1.27	NO	34.48	1.014	1.29e6	1.48e6	116	16.0	0.870	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 0.963047

RRF SD: 0.127006, Relative SD: 13.1879

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.28	NO	34.59	1.017	1.16e6	1.10e6	109	9.3	1.05	db
2	200429R2_2	100	1.29	NO	34.59	1.017	9.85e5	1.19e6	85.9	-14.1	0.827	db
3	200429R2_3	100	1.29	NO	34.59	1.017	9.49e5	1.15e6	85.7	-14.3	0.825	db
4	200429R2_4	100	1.26	NO	34.59	1.017	1.08e6	1.15e6	97.7	-2.3	0.941	db
5	200429R2_5	100	1.27	NO	34.60	1.017	1.24e6	1.26e6	102	2.2	0.985	db
6	200429R2_6	100	1.26	NO	34.58	1.017	1.70e6	1.48e6	119	19.2	1.15	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.83755

RRF SD: 0.108482, Relative SD: 12.9523

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.31	NO	34.86	1.025	1.02e6	1.10e6	110	10.2	0.923	bd
2	200429R2_2	100	1.28	NO	34.87	1.025	8.50e5	1.19e6	85.2	-14.8	0.713	bb
3	200429R2_3	100	1.25	NO	34.86	1.025	8.34e5	1.15e6	86.5	-13.5	0.724	bb
4	200429R2_4	100	1.25	NO	34.87	1.025	9.34e5	1.15e6	97.2	-2.8	0.814	bb
5	200429R2_5	100	1.25	NO	34.87	1.025	1.09e6	1.26e6	103	3.2	0.864	bb
6	200429R2_6	100	1.25	NO	34.86	1.025	1.46e6	1.48e6	118	17.7	0.986	bb

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

Response Factor: 0.641477

RRF SD: 0.0915679, Relative SD: 14.2745

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.06	NO	38.35	1.128	8.17e5	1.10e6	116	15.5	0.741	bd
2	200429R2_2	100	1.06	NO	38.36	1.128	6.60e5	1.19e6	86.4	-13.6	0.554	MM
3	200429R2_3	100	1.02	NO	38.36	1.128	6.39e5	1.15e6	86.5	-13.5	0.555	bb
4	200429R2_4	100	1.09	NO	38.37	1.128	6.79e5	1.15e6	92.2	-7.8	0.592	MM
5	200429R2_5	100	1.02	NO	38.37	1.128	8.11e5	1.26e6	101	0.6	0.646	bb
6	200429R2_6	100	1.05	NO	38.35	1.128	1.13e6	1.48e6	119	18.7	0.761	bb

**Compound name: 13C-OCDD**

Response Factor: 0.586321

RRF SD: 0.114579, Relative SD: 19.5421

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	200	0.89	NO	41.34	1.216	1.42e6	1.10e6	220	9.8	0.644	MM
2	200429R2_2	200	0.90	NO	41.34	1.215	1.21e6	1.19e6	173	-13.7	0.506	MM
3	200429R2_3	200	0.93	NO	41.33	1.215	1.10e6	1.15e6	162	-18.8	0.476	MM
4	200429R2_4	200	0.93	NO	41.34	1.215	1.18e6	1.15e6	175	-12.5	0.513	MM
5	200429R2_5	200	0.90	NO	41.34	1.215	1.50e6	1.26e6	203	1.7	0.597	MM
6	200429R2_6	200	0.90	NO	41.33	1.215	2.31e6	1.48e6	267	33.4	0.782	MM

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.03447

RRF SD: 0.0994265, Relative SD: 9.61138

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.78	NO	25.08	0.989	2.52e6	2.12e6	115	14.8	1.19	bb
2	200429R2_2	100	0.78	NO	25.09	0.989	2.22e6	2.37e6	90.3	-9.7	0.934	bb

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**Compound name: 13C-2,3,7,8-TCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	0.78	NO	25.08	0.989	2.09e6	2.27e6	89.0	-11.0	0.920	bb
4	200429R2_4	100	0.77	NO	25.09	0.989	2.15e6	2.10e6	99.1	-0.9	1.03	bb
5	200429R2_5	100	0.79	NO	25.09	0.989	2.52e6	2.38e6	102	2.1	1.06	bb
6	200429R2_6	100	0.77	NO	25.08	0.989	2.91e6	2.69e6	105	4.7	1.08	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.84507

RRF SD: 0.102566, Relative SD: 12.137

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.60	NO	29.80	1.176	1.94e6	2.12e6	108	8.3	0.915	bb
2	200429R2_2	100	1.62	NO	29.81	1.176	1.69e6	2.37e6	84.4	-15.6	0.713	bb
3	200429R2_3	100	1.61	NO	29.80	1.175	1.64e6	2.27e6	85.7	-14.3	0.724	bb
4	200429R2_4	100	1.63	NO	29.80	1.175	1.86e6	2.10e6	105	4.9	0.886	bb
5	200429R2_5	100	1.58	NO	29.81	1.176	2.07e6	2.38e6	103	3.0	0.871	bb
6	200429R2_6	100	1.59	NO	29.80	1.176	2.58e6	2.69e6	114	13.7	0.960	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.814071

RRF SD: 0.103739, Relative SD: 12.7432

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.58	NO	30.79	1.215	1.84e6	2.12e6	107	6.7	0.869	bb
2	200429R2_2	100	1.59	NO	30.80	1.215	1.62e6	2.37e6	83.6	-16.4	0.681	db
3	200429R2_3	100	1.58	NO	30.79	1.214	1.57e6	2.27e6	84.8	-15.2	0.691	db
4	200429R2_4	100	1.60	NO	30.79	1.214	1.82e6	2.10e6	107	6.5	0.867	db
5	200429R2_5	100	1.60	NO	30.80	1.215	2.01e6	2.38e6	104	3.7	0.844	db
6	200429R2_6	100	1.58	NO	30.79	1.215	2.51e6	2.69e6	115	14.6	0.933	db

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

Response Factor: 1.00488

RRF SD: 0.118528, Relative SD: 11.7952

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.50	NO	33.62	0.989	1.22e6	1.10e6	110	10.1	1.11	bd
2	200429R2_2	100	0.51	NO	33.63	0.989	1.02e6	1.19e6	85.4	-14.6	0.858	bd
3	200429R2_3	100	0.51	NO	33.62	0.988	1.02e6	1.15e6	88.0	-12.0	0.884	bd
4	200429R2_4	100	0.51	NO	33.63	0.989	1.13e6	1.15e6	98.3	-1.7	0.987	bd
5	200429R2_5	100	0.51	NO	33.63	0.988	1.31e6	1.26e6	103	3.5	1.04	bd
6	200429R2_6	100	0.51	NO	33.62	0.989	1.71e6	1.48e6	115	14.9	1.15	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 1.13681

RRF SD: 0.13421, Relative SD: 11.8059

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.51	NO	33.74	0.992	1.41e6	1.10e6	113	12.9	1.28	db
2	200429R2_2	100	0.52	NO	33.75	0.992	1.18e6	1.19e6	87.4	-12.6	0.994	db
3	200429R2_3	100	0.51	NO	33.74	0.992	1.14e6	1.15e6	87.0	-13.0	0.990	db
4	200429R2_4	100	0.51	NO	33.75	0.992	1.26e6	1.15e6	96.7	-3.3	1.10	db
5	200429R2_5	100	0.51	NO	33.75	0.992	1.46e6	1.26e6	102	2.3	1.16	db
6	200429R2_6	100	0.51	NO	33.74	0.992	1.91e6	1.48e6	114	13.7	1.29	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 1.02233

RRF SD: 0.123256, Relative SD: 12.0564

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.52	NO	34.31	1.009	1.26e6	1.10e6	112	11.8	1.14	MM
2	200429R2_2	100	0.51	NO	34.31	1.009	1.05e6	1.19e6	86.2	-13.8	0.881	bb

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**Compound name: 13C-2,3,4,6,7,8-HxCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	0.52	NO	34.31	1.009	1.03e6	1.15e6	87.6	-12.4	0.895	bb
4	200429R2_4	100	0.51	NO	34.33	1.009	1.14e6	1.15e6	97.2	-2.8	0.993	bb
5	200429R2_5	100	0.51	NO	34.33	1.009	1.31e6	1.26e6	102	2.1	1.04	bb
6	200429R2_6	100	0.51	NO	34.31	1.009	1.74e6	1.48e6	115	15.2	1.18	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.844773

RRF SD: 0.0991685, Relative SD: 11.7391

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.51	NO	35.20	1.035	9.91e5	1.10e6	106	6.4	0.899	bb
2	200429R2_2	100	0.51	NO	35.20	1.035	8.77e5	1.19e6	87.2	-12.8	0.737	bb
3	200429R2_3	100	0.50	NO	35.20	1.035	8.59e5	1.15e6	88.3	-11.7	0.746	bb
4	200429R2_4	100	0.51	NO	35.21	1.035	9.29e5	1.15e6	95.9	-4.1	0.810	MM
5	200429R2_5	100	0.51	NO	35.21	1.035	1.11e6	1.26e6	105	4.6	0.883	bb
6	200429R2_6	100	0.52	NO	35.20	1.035	1.47e6	1.48e6	118	17.6	0.994	bb

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

Response Factor: 0.771212

RRF SD: 0.102676, Relative SD: 13.3136

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.43	NO	36.93	1.086	9.24e5	1.10e6	109	8.6	0.838	bb
2	200429R2_2	100	0.43	NO	36.94	1.086	7.84e5	1.19e6	85.4	-14.6	0.659	bb
3	200429R2_3	100	0.44	NO	36.94	1.086	7.69e5	1.15e6	86.7	-13.3	0.668	bd
4	200429R2_4	100	0.43	NO	36.96	1.086	8.65e5	1.15e6	97.7	-2.3	0.754	bd
5	200429R2_5	100	0.42	NO	36.96	1.086	9.81e5	1.26e6	101	1.2	0.781	bb
6	200429R2_6	100	0.44	NO	36.93	1.086	1.37e6	1.48e6	120	20.3	0.928	bb



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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.482289

RRF SD: 0.0750769, Relative SD: 15.5668

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.41	NO	38.94	1.145	5.96e5	1.10e6	112	12.1	0.541	bb
2	200429R2_2	100	0.44	NO	38.94	1.145	4.92e5	1.19e6	85.7	-14.3	0.413	MM
3	200429R2_3	100	0.45	NO	38.94	1.145	4.72e5	1.15e6	85.0	-15.0	0.410	MM
4	200429R2_4	100	0.44	NO	38.95	1.145	5.12e5	1.15e6	92.5	-7.5	0.446	MM
5	200429R2_5	100	0.43	NO	38.95	1.145	6.09e5	1.26e6	101	0.6	0.485	bb
6	200429R2_6	100	0.43	NO	38.93	1.145	8.85e5	1.48e6	124	24.1	0.598	bb

**Compound name: 13C-OCDF**

Response Factor: 0.668505

RRF SD: 0.127842, Relative SD: 19.1235

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	200	0.88	NO	41.51	1.221	1.62e6	1.10e6	220	9.9	0.735	bb
2	200429R2_2	200	0.86	NO	41.51	1.220	1.40e6	1.19e6	176	-12.0	0.588	MM
3	200429R2_3	200	0.89	NO	41.51	1.220	1.27e6	1.15e6	165	-17.4	0.552	bd
4	200429R2_4	200	0.88	NO	41.52	1.221	1.32e6	1.15e6	172	-14.0	0.575	bb
5	200429R2_5	200	0.87	NO	41.52	1.220	1.69e6	1.26e6	201	0.5	0.672	bb
6	200429R2_6	200	0.88	NO	41.51	1.221	2.63e6	1.48e6	266	33.0	0.889	bb

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.09842

RRF SD: 0.0959308, Relative SD: 8.73354

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	0.250			26.05	1.028	3.33e3	1.32e6	0.230	-7.9	1.01	bb
2	200429R2_2	0.500			26.07	1.028	7.64e3	1.44e6	0.484	-3.2	1.06	bb

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**Compound name: 37CI-2,3,7,8-TCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	2.00			26.05	1.027	2.74e4	1.38e6	1.81	-9.5	0.994	bd
4	200429R2_4	10.0			26.05	1.027	1.41e5	1.28e6	10.0	0.4	1.10	bb
5	200429R2_5	40.0			26.07	1.028	6.87e5	1.45e6	43.0	7.5	1.18	bb
6	200429R2_6	200			26.05	1.028	4.11e6	1.66e6	225	12.7	1.24	bb

**Compound name: 13C-1,2,3,4-TCDD**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.80	NO	25.35	1.000	1.32e6	1.32e6	100	0.0	1.00	bb
2	200429R2_2	100	0.80	NO	25.36	1.000	1.44e6	1.44e6	100	0.0	1.00	bb
3	200429R2_3	100	0.81	NO	25.36	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200429R2_4	100	0.80	NO	25.36	1.000	1.28e6	1.28e6	100	0.0	1.00	bb
5	200429R2_5	100	0.81	NO	25.36	1.000	1.45e6	1.45e6	100	0.0	1.00	bb
6	200429R2_6	100	0.80	NO	25.35	1.000	1.66e6	1.66e6	100	0.0	1.00	bb

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.79	NO	23.57	1.000	2.12e6	2.12e6	100	0.0	1.00	bb
2	200429R2_2	100	0.79	NO	23.58	1.000	2.37e6	2.37e6	100	0.0	1.00	bb
3	200429R2_3	100	0.79	NO	23.58	1.000	2.27e6	2.27e6	100	0.0	1.00	bb
4	200429R2_4	100	0.79	NO	23.59	1.000	2.10e6	2.10e6	100	0.0	1.00	bb
5	200429R2_5	100	0.79	NO	23.59	1.000	2.38e6	2.38e6	100	0.0	1.00	bb
6	200429R2_6	100	0.79	NO	23.57	1.000	2.69e6	2.69e6	100	0.0	1.00	bb

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

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

Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.51	NO	34.01	1.000	1.10e6	1.10e6	100	0.0	1.00	bb
2	200429R2_2	100	0.50	NO	34.01	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
3	200429R2_3	100	0.51	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
4	200429R2_4	100	0.50	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
5	200429R2_5	100	0.51	NO	34.03	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
6	200429R2_6	100	0.51	NO	34.01	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time

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

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

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.90
2	2 1,2,8,9-TCDD (Last)	27.05
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.52
5	5 1,2,4,6,7,9-HxCDD (First)	33.04
6	6 1,2,3,7,8,9-HxCDD (Last)	34.88
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.35
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.38
9	9 1,3,6,8-TCDF (First)	19.85
10	10 1,2,8,9-TCDF (Last)	27.19
11	11 1,3,4,6,8-PeCDF (First)	27.17
12	12 1,2,3,8,9-PeCDF (Last)	31.75
13	13 1,2,3,4,6,8-HxCDF (First)	32.47
14	14 1,2,3,7,8,9-HxCDF (Last)	35.22
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.97
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.96

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time

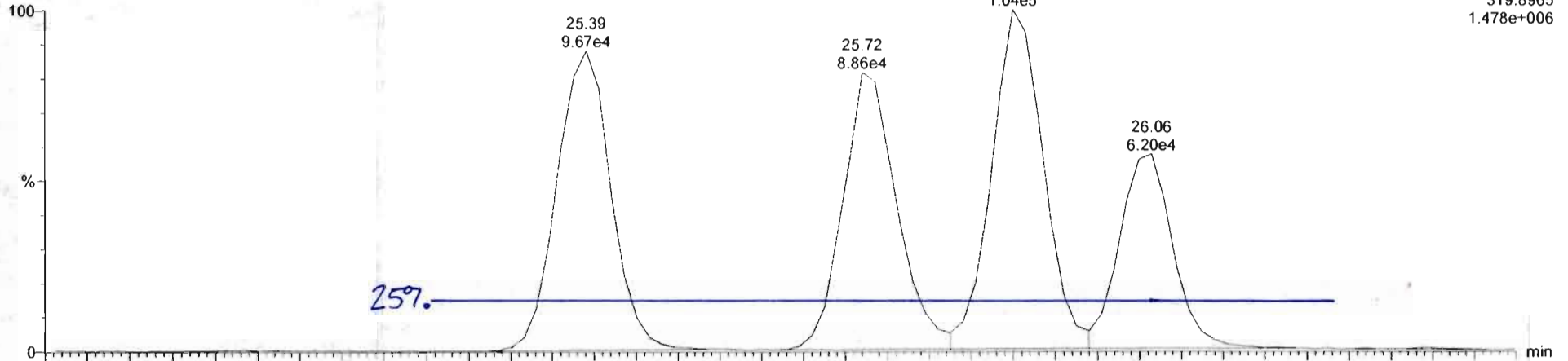
GPB 04/30/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

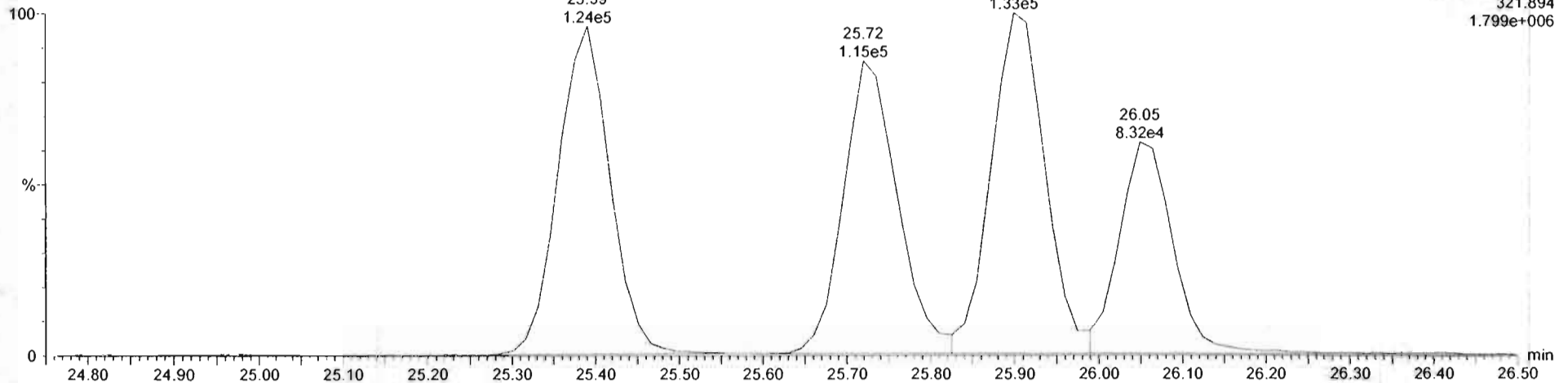
1,3,6,8-TCDD (First)  
200429R2\_4

F1:Voltage SIR,EI+  
319.8965  
1.478e+006



200429R2\_4

F1:Voltage SIR,EI+  
321.894  
1.799e+006



Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:43 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 8:41:41 AM Pacific Daylight Time

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

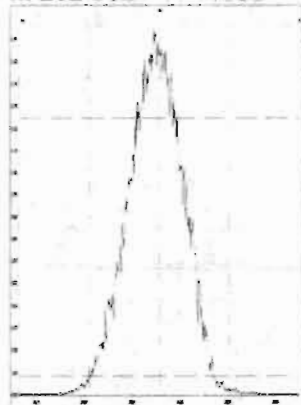
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200429R2_1	ST200429R2_1 1613 CS0 19L2302	29-Apr-20	13:27:25
2	200429R2_2	ST200429R2_2 1613 CS1 19L2303	29-Apr-20	14:15:04
3	200429R2_3	ST200429R2_3 1613 CS2 19L2304	29-Apr-20	15:02:24
4	200429R2_4	ST200429R2_4 1613 CS3 19L2305	29-Apr-20	15:48:39
5	200429R2_5	ST200429R2_5 1613 CS4 19L2306	29-Apr-20	16:35:58
6	200429R2_6	ST200429R2_6 1613 CS5 19L2307	29-Apr-20	17:23:21
7	200429R2_7	SOLVENT BLANK	29-Apr-20	18:10:44
8	200429R2_8	SS200429R2_1 1613 SSS 19L2308	29-Apr-20	18:58:05
9	200429R2_9	B0C0304-BS4 OPR 10	29-Apr-20	19:54:24
10	200429R2_10	B0C0304-BS3 OPR 10	29-Apr-20	20:40:38
11	200429R2_11	B0C0304-BS2 OPR 10	29-Apr-20	21:28:00
12	200429R2_12	B0C0304-BS1 OPR 10	29-Apr-20	22:15:28
13	200429R2_13	B0D0053-BS4 OPR 10	29-Apr-20	23:02:49
14	200429R2_14	B0D0053-BS3 OPR 10	29-Apr-20	23:50:11
15	200429R2_15	B0D0053-BS2 OPR 10	30-Apr-20	00:37:32
16	200429R2_16	B0D0053-BS1 OPR 10	30-Apr-20	01:24:55
17	200429R2_17	SOLVENT BLANK	30-Apr-20	02:12:17
18	200429R2_18	B0D0053-BLK1 Method Blank 10	30-Apr-20	02:59:37
19	200429R2_19	SOLVENT BLANK	30-Apr-20	03:55:52

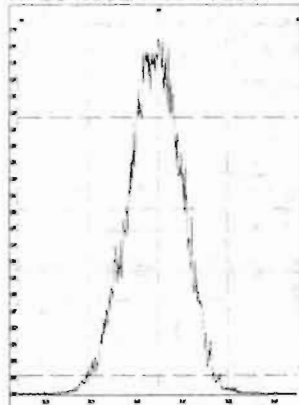
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

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

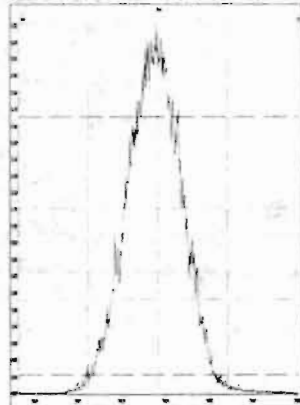
M 292.9824 R 11363



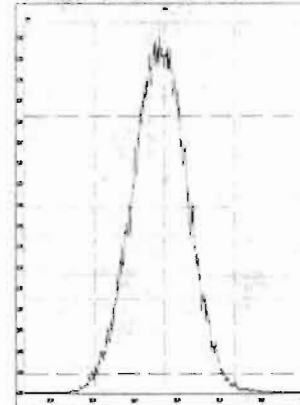
M 304.9824 R 11059



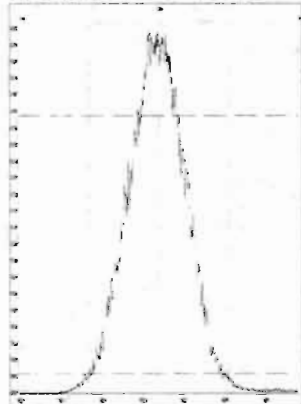
M 318.9792 R 11211



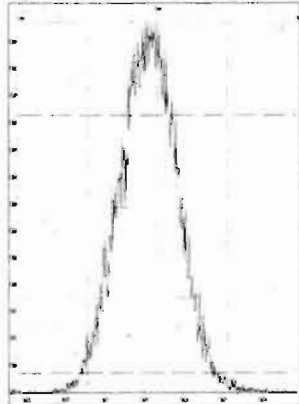
M 330.9792 R 11311



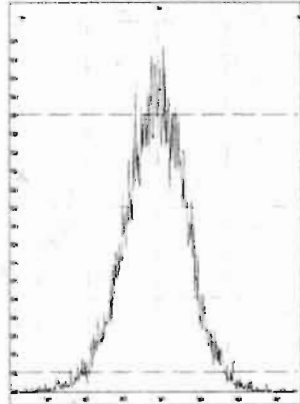
M 342.9792 R 10772



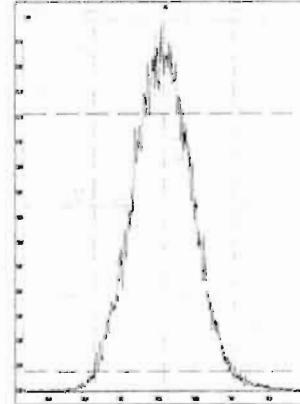
M 354.9792 R 10729



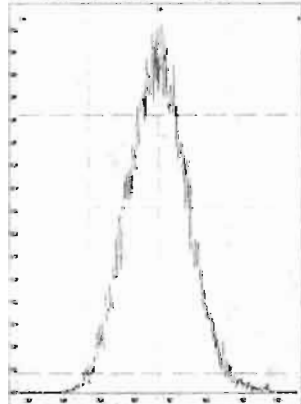
M 366.9792 R 10078



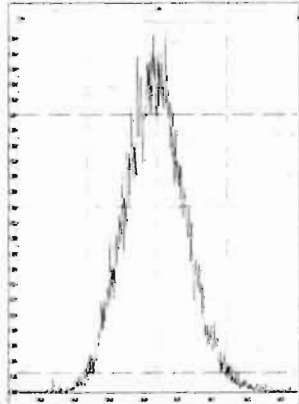
M 380.9760 R 10288



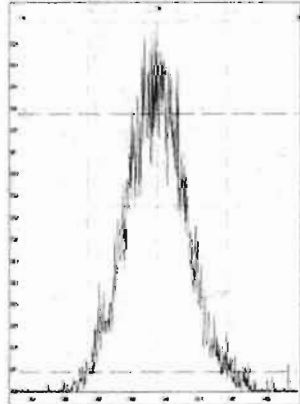
M 392.9760 R 10371



M 404.9760 R 10417



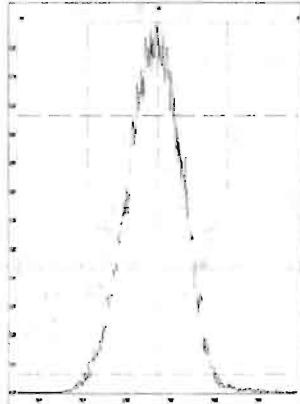
M 416.9760 R 10964



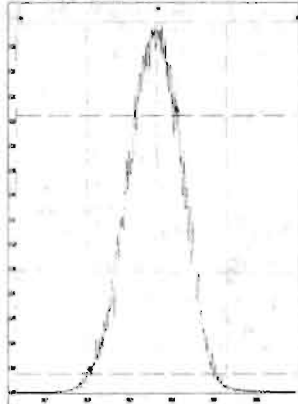
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

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

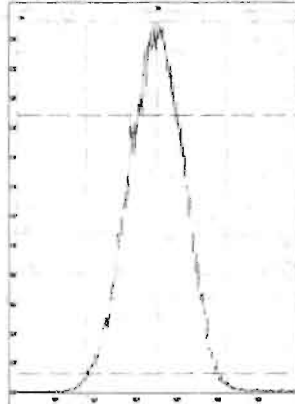
M 318.9792 R 11365



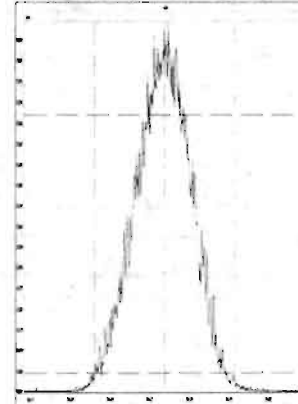
M 330.9792 R 11420



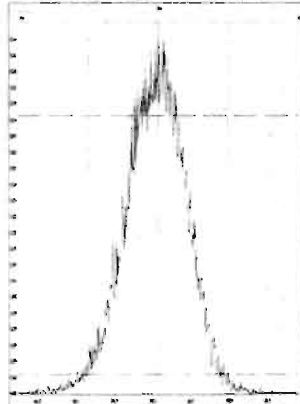
M 342.9792 R 10824



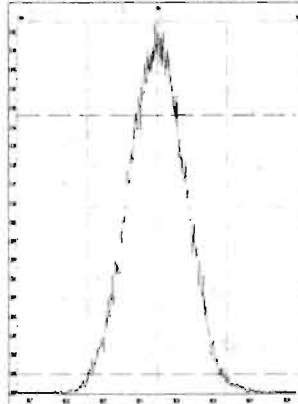
M 354.9792 R 11312



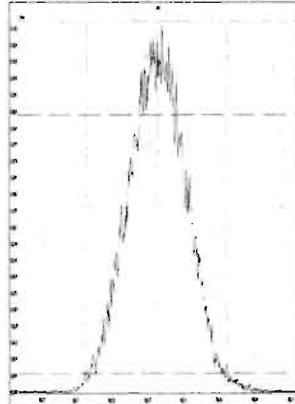
M 366.9792 R 10371



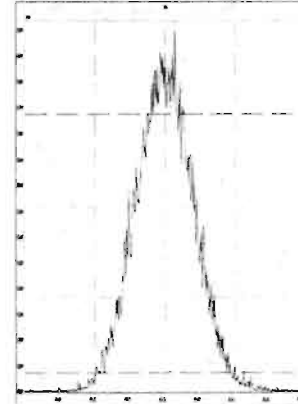
M 380.9760 R 10772



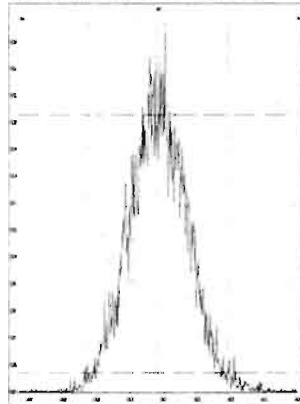
M 392.9760 R 10916



M 404.9760 R 10370



M 416.9760 R 10916

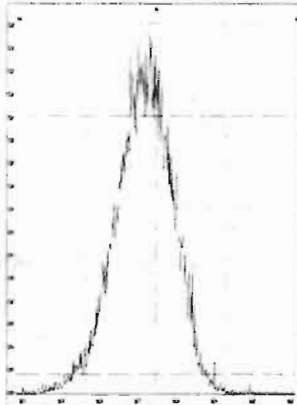




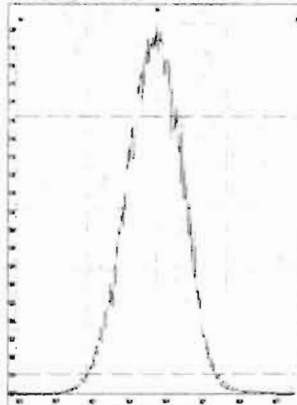
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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

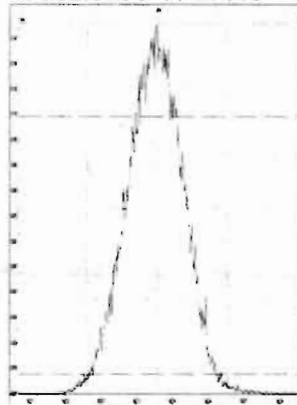
M 366.9792 R 11519



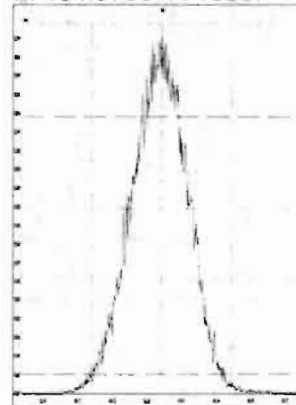
M 380.9760 R 10914



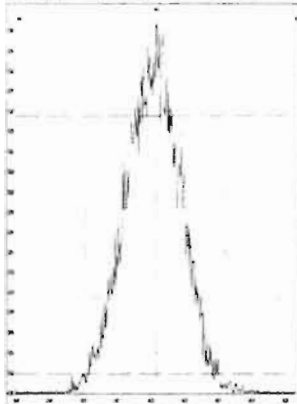
M 392.9760 R 11415



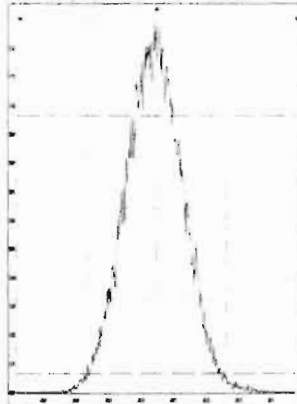
M 404.9760 R 10867



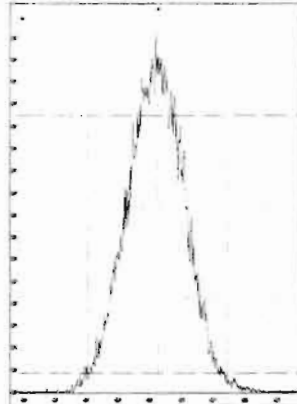
M 416.9760 R 11210



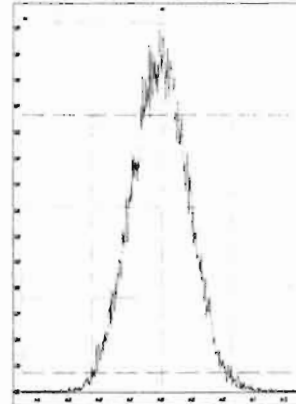
M 430.9728 R 10637



M 442.9728 R 10917



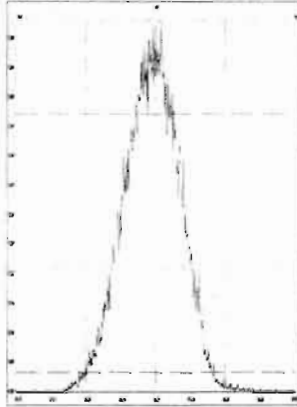
M 454.9728 R 10683



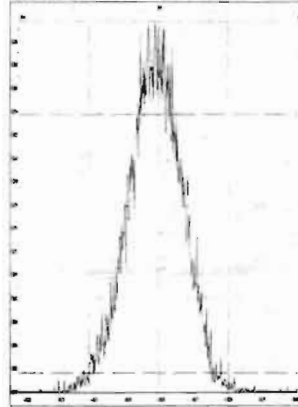
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:23:14 Pacific Daylight Time

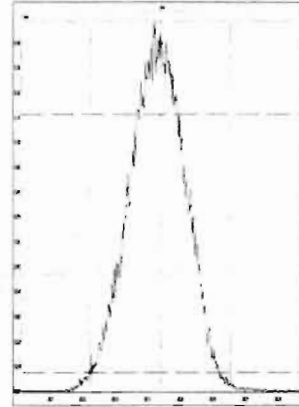
M 404.9760 R 11060



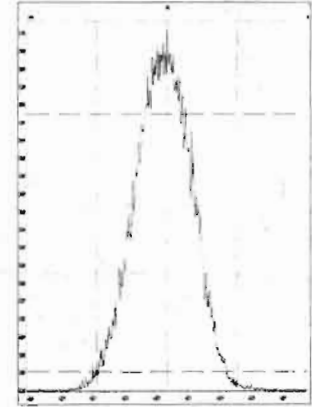
M 416.9760 R 11313



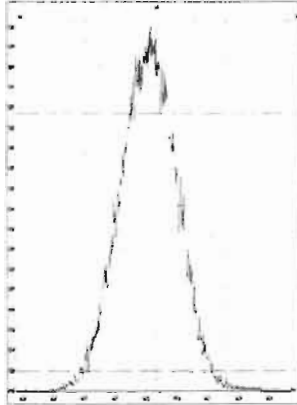
M 430.9728 R 11012



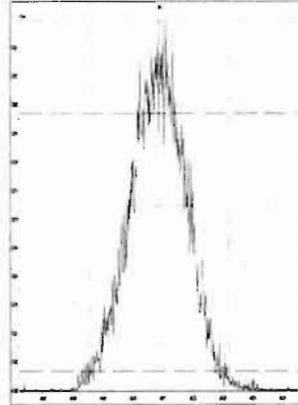
M 442.9728 R 10867



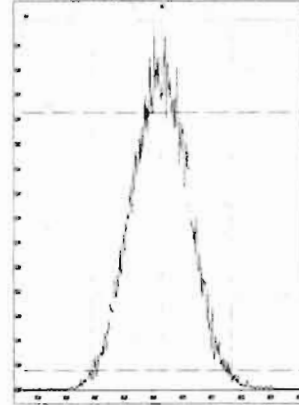
M 454.9728 R 10729



M 466.9728 R 11846



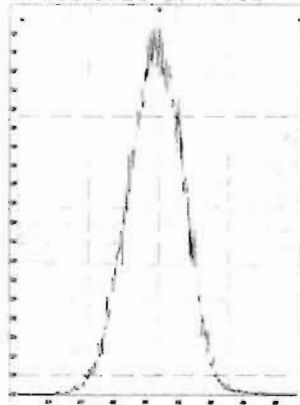
M 480.9696 R 10776



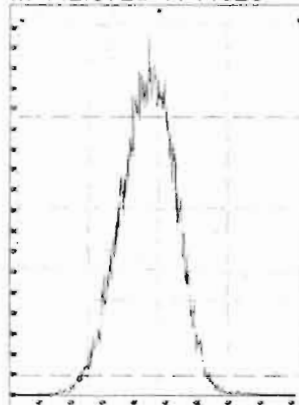
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:23:43 Pacific Daylight Time

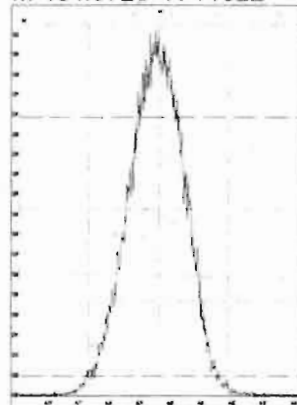
M 430.9728 R 11108



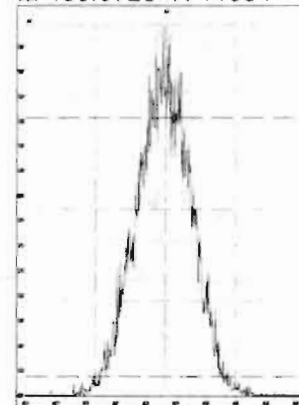
M 442.9728 R 11520



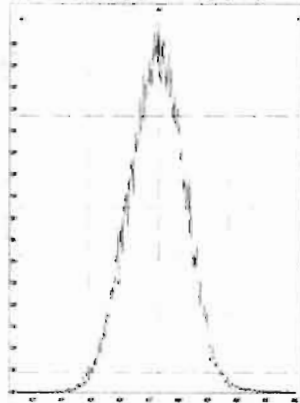
M 454.9728 R 11522



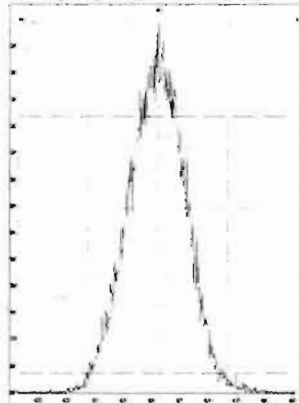
M 466.9728 R 11364



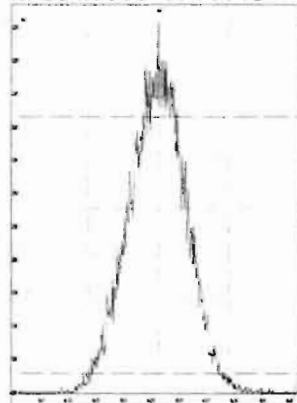
M 480.9696 R 10916



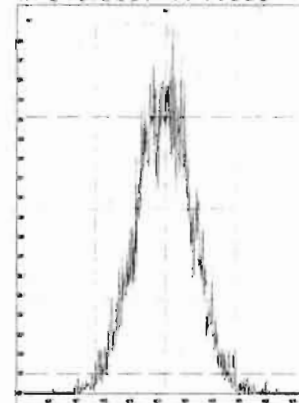
M 492.9696 R 10918



M 504.9696 R 11110



M 516.9697 R 11365



Dataset: Untitled

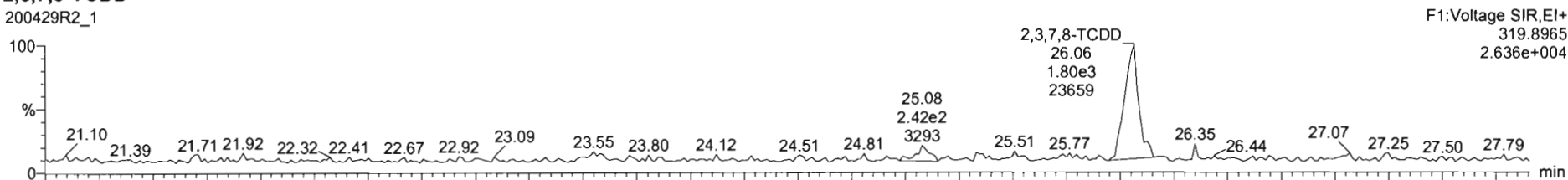
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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

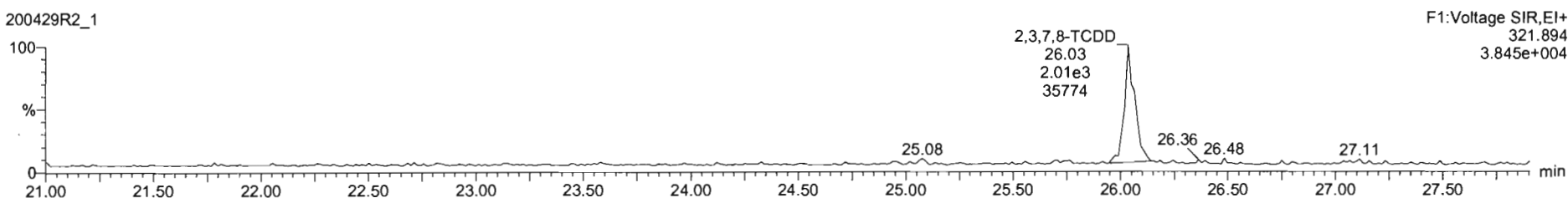
Name: 200429R2\_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

### 2,3,7,8-TCDD

200429R2\_1

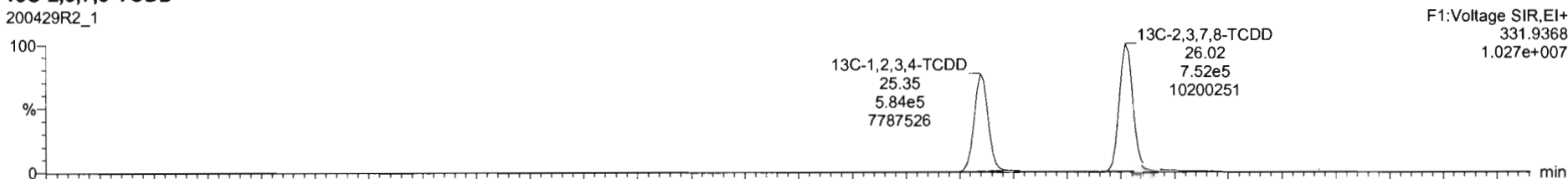


200429R2\_1

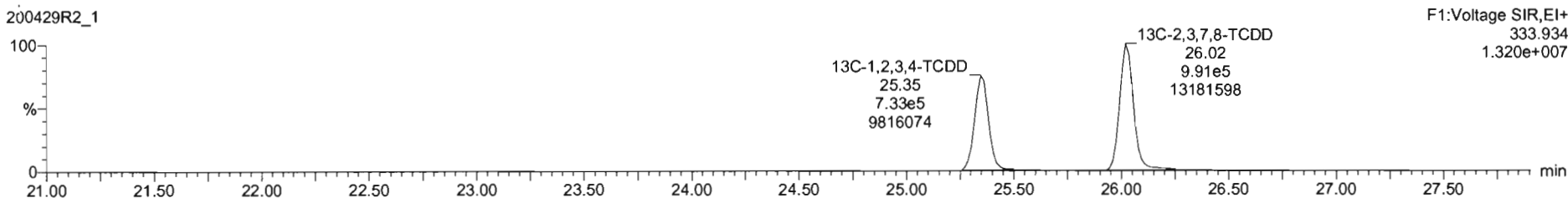


### 13C-2,3,7,8-TCDD

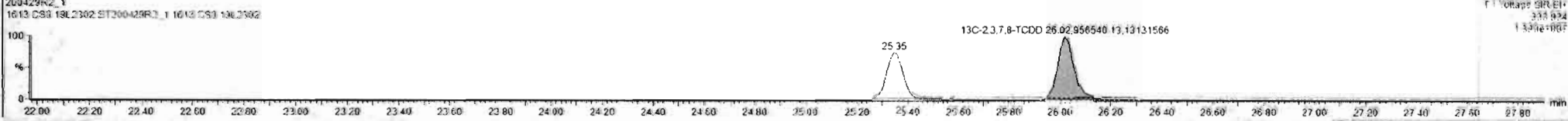
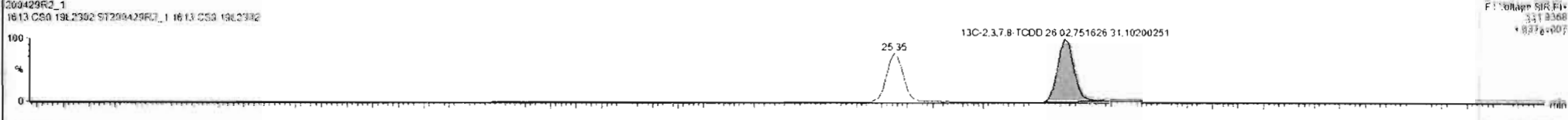
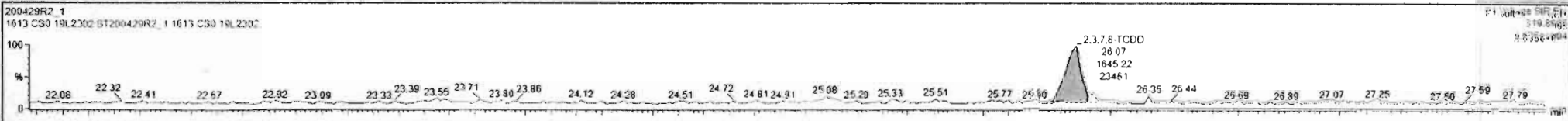
200429R2\_1



200429R2\_1



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.2	6.35	0.947	0.0587
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	28.38	1.084	NO	7.9301e3	8.1666e5	1.250	-13.5	6.93	0.896	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.6	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-3.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.54	1.134	NO	1.1393e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.2594e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0706
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



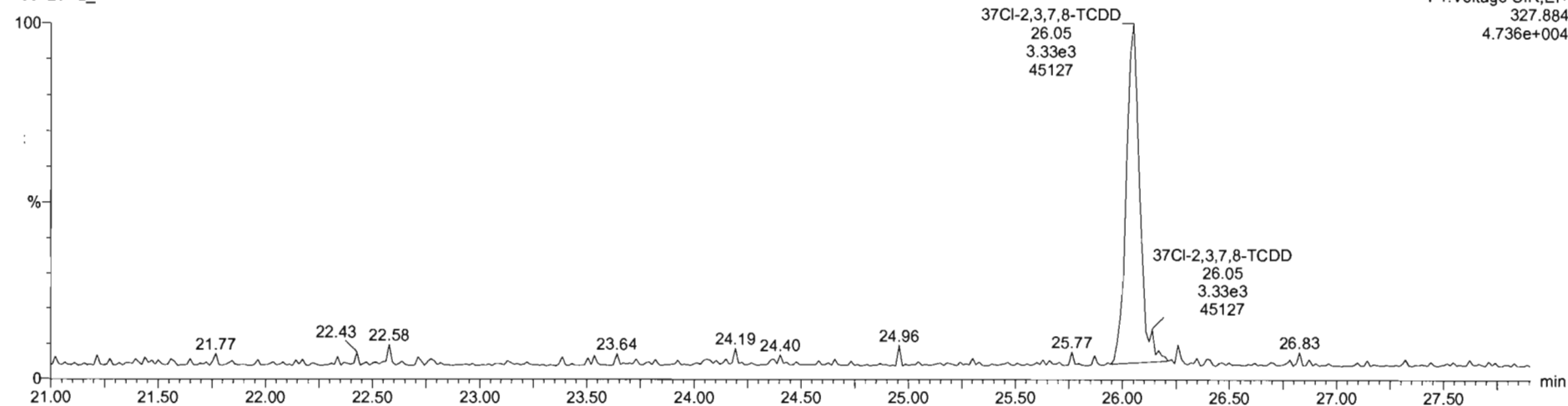
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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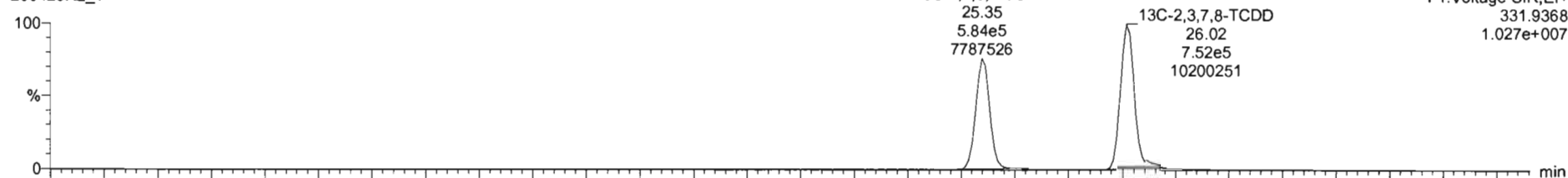
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200429R2\_1

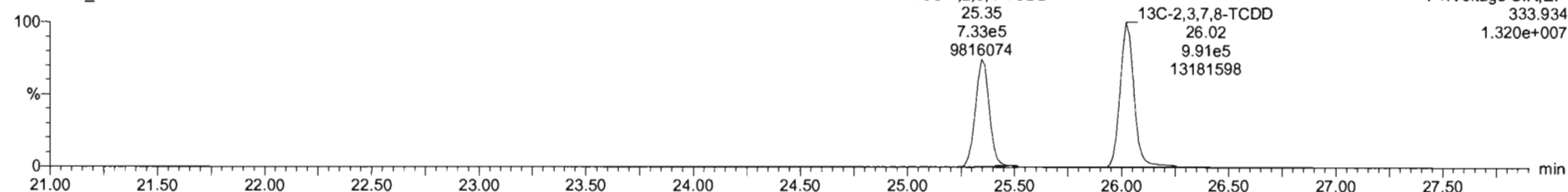


**13C-1,2,3,4-TCDD**

200429R2\_1



200429R2\_1



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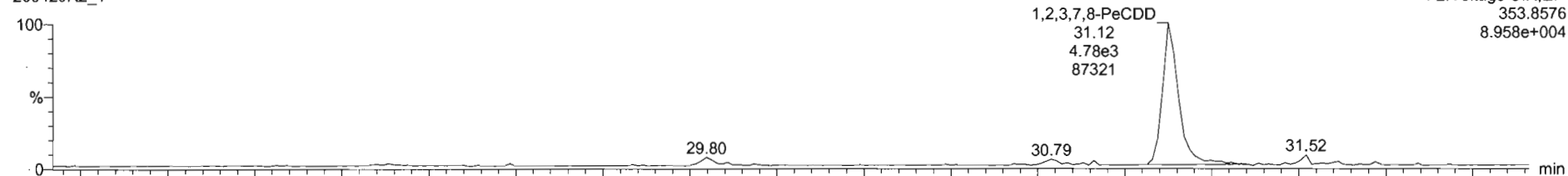
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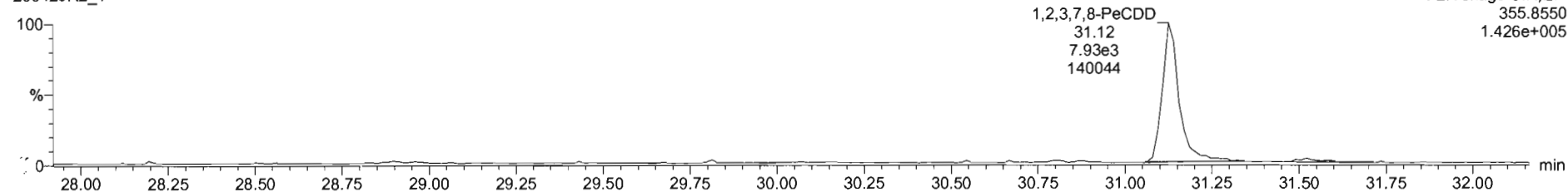
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**1,2,3,7,8-PeCDD**

200429R2\_1

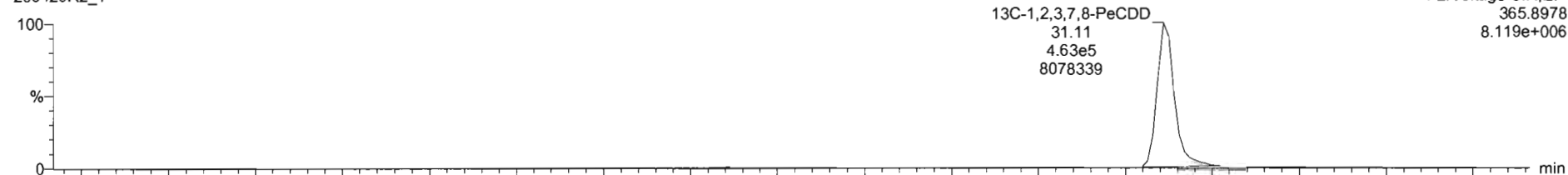


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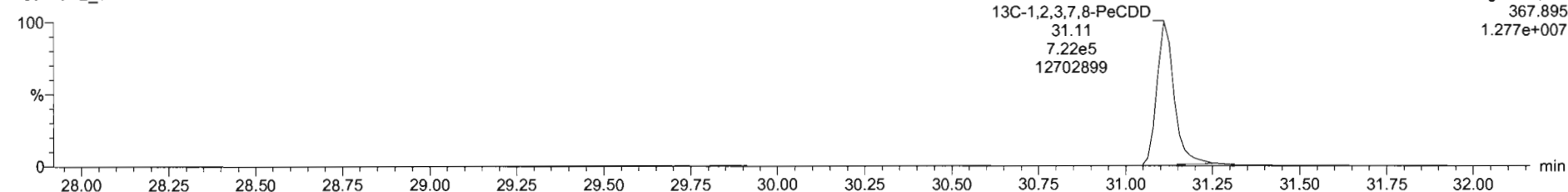


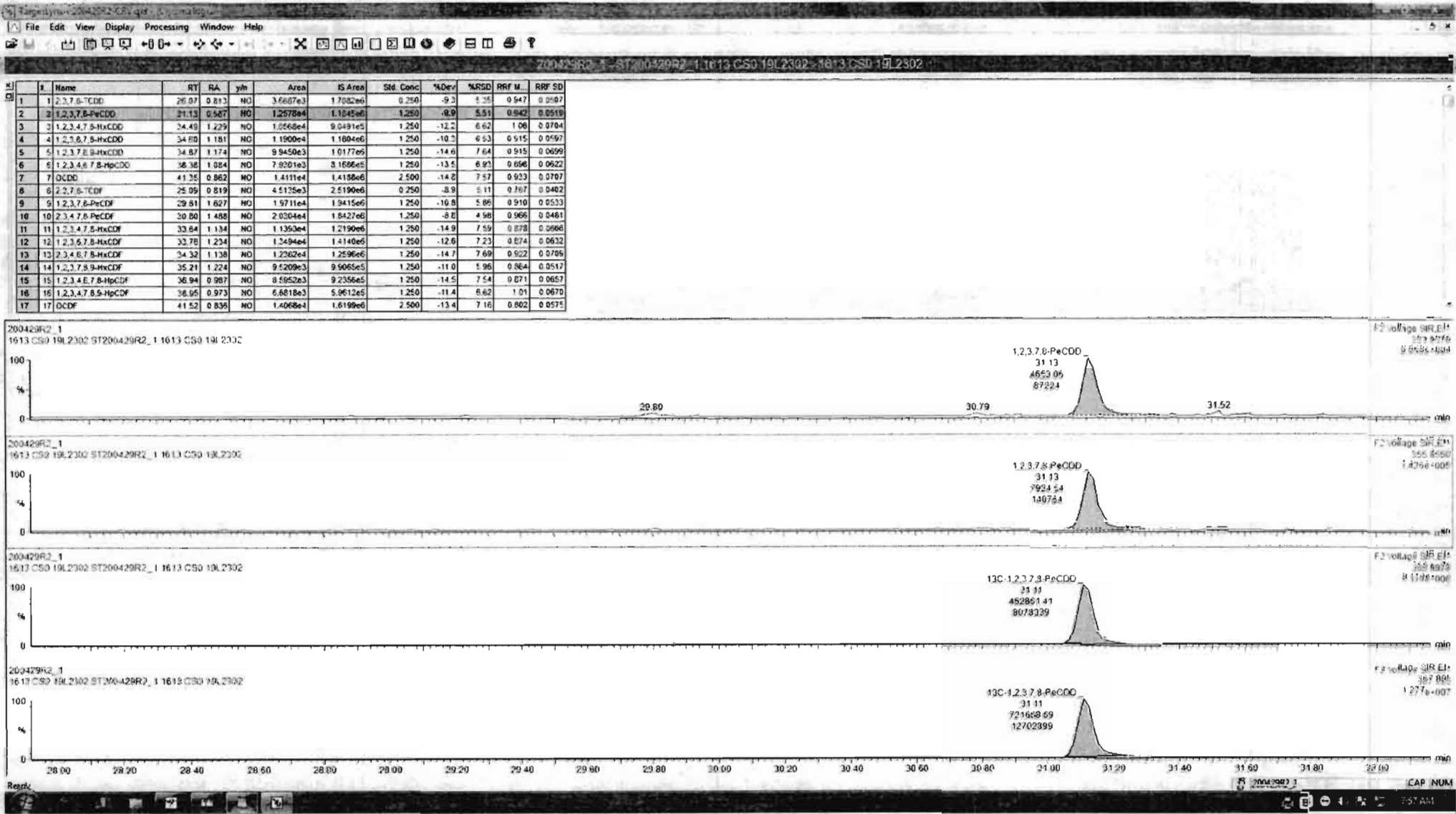
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200429R2\_1



200429R2\_1







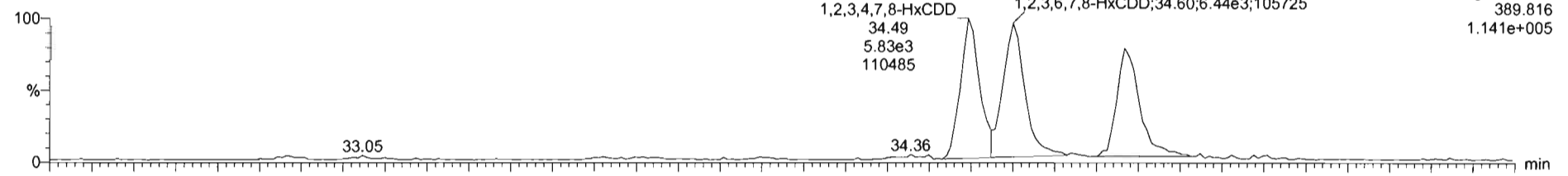
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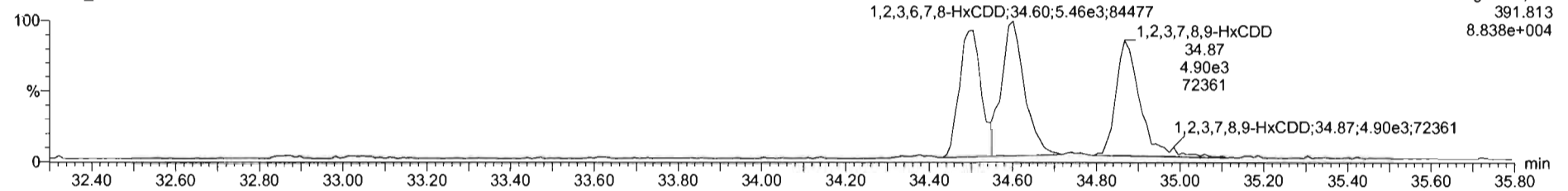
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1,2,3,4,7,8-HxCDD

200429R2\_1

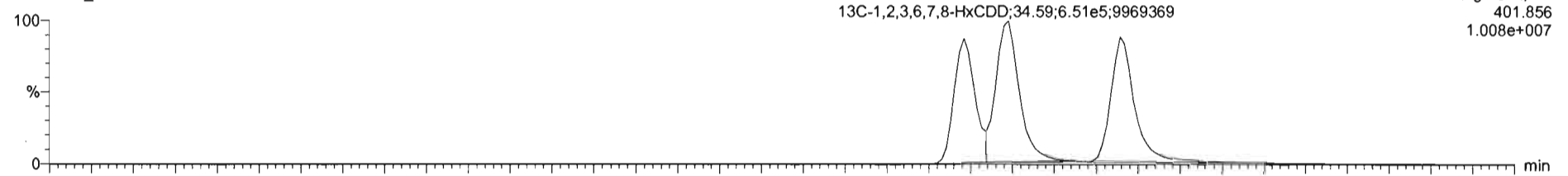


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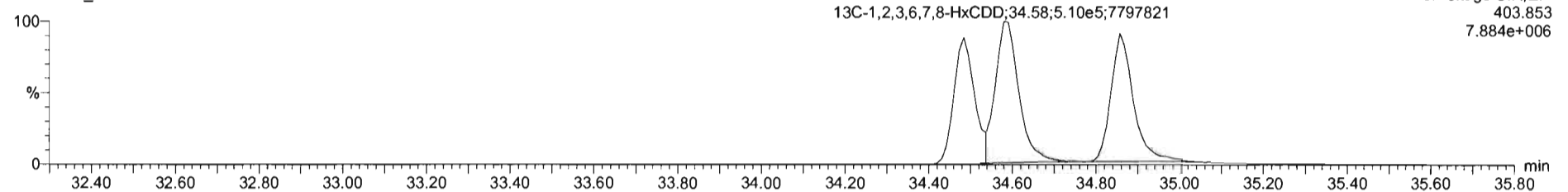


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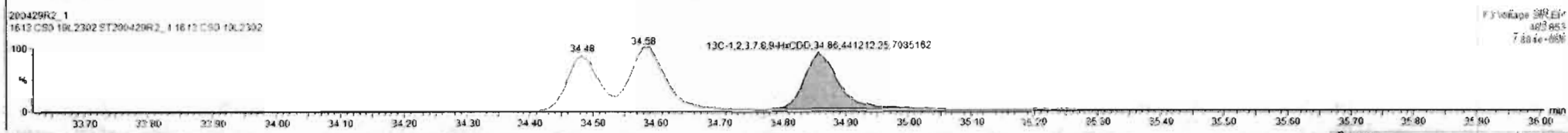
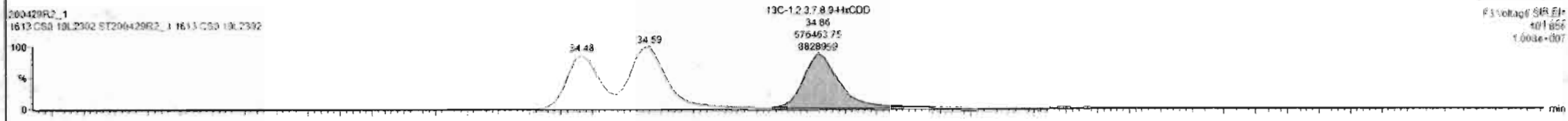
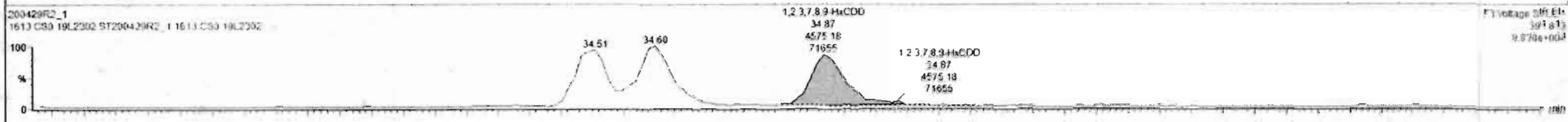
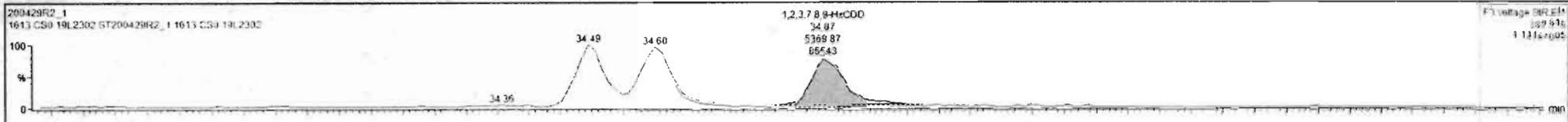
200429R2\_1



200429R2\_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.913	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0587
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.67	1.174	NO	9.9450e3	1.0177e6	1.250	-14.4	7.64	0.915	0.0598
6	1,2,3,4,6,7,8-HpCDD	36.38	1.054	NO	7.9201e3	8.1666e5	1.250	-13.5	8.93	0.856	0.0522
7	OCDD	41.35	0.862	NO	1.4111e4	1.4186e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.027	NO	1.9711e4	1.9415e6	1.250	-10.8	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1393e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0789
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0678
17	DCDF	41.52	0.836	NO	1.4066e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



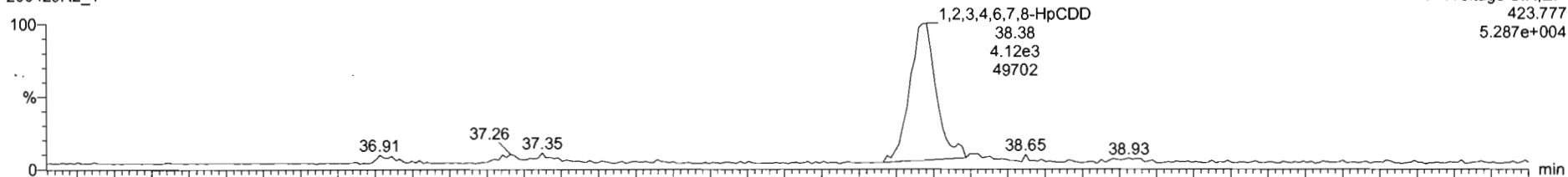
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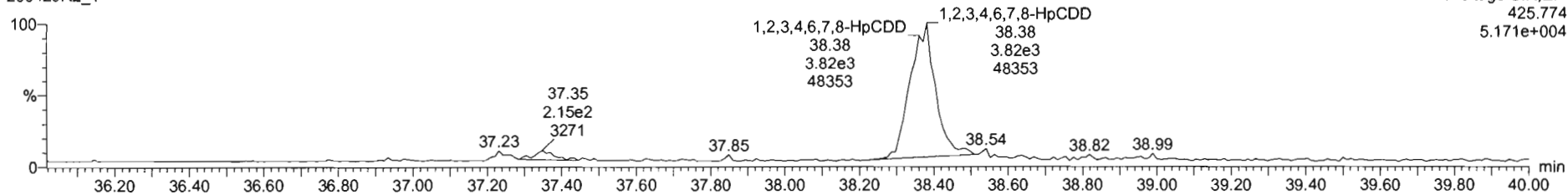
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1,2,3,4,6,7,8-HpCDD

200429R2\_1

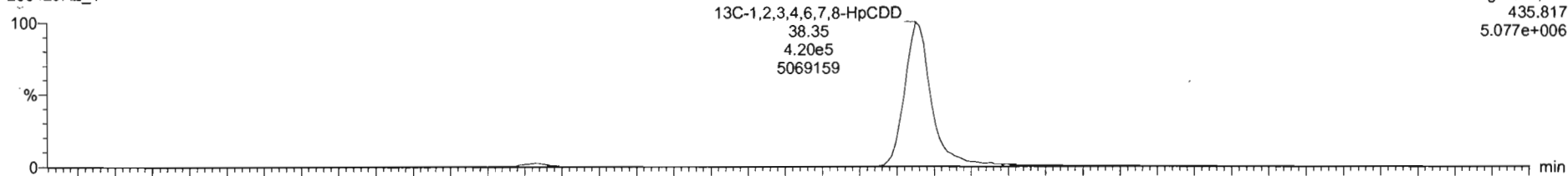


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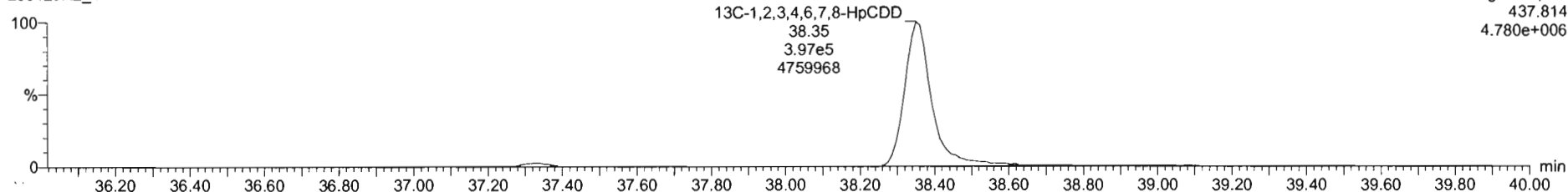


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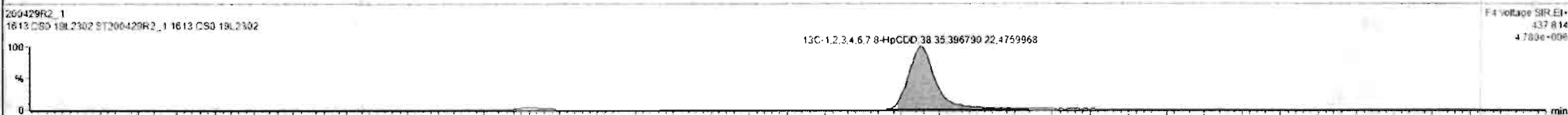
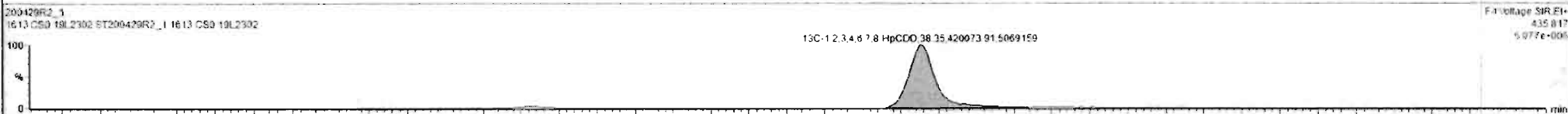
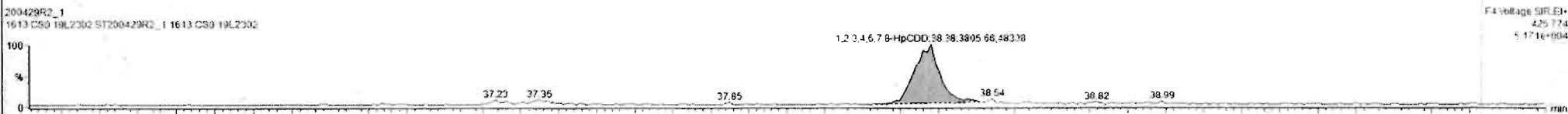
200429R2\_1



200429R2\_1



#	Name	RT	RA	y/h	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1846e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.6491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1694e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0117e6	1.250	-14.6	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	38.38	1.554	NO	7.9501e3	2.1666e5	1.250	-13.5	8.93	0.898	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,6,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2150e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0627
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9812e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



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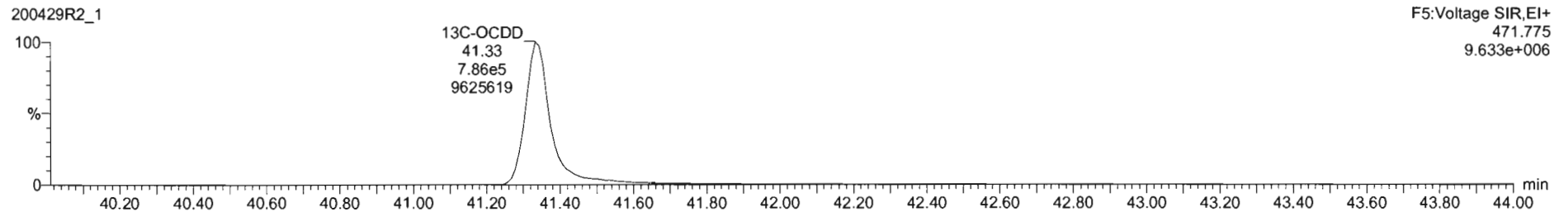
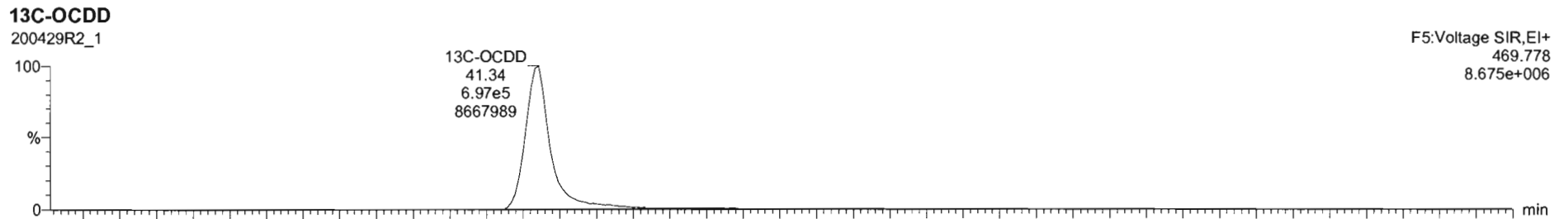
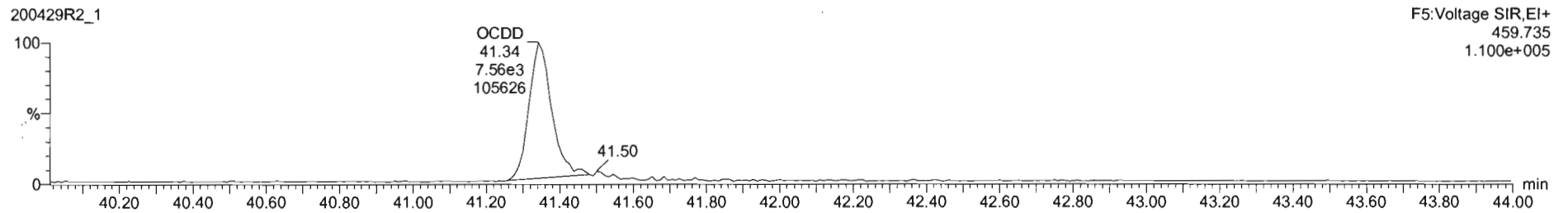
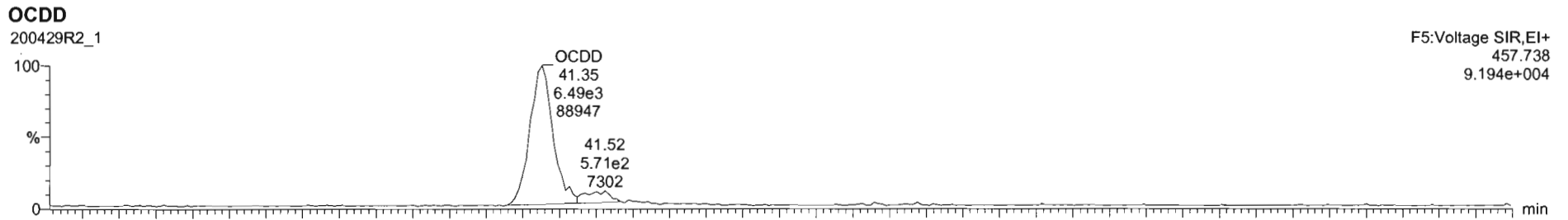
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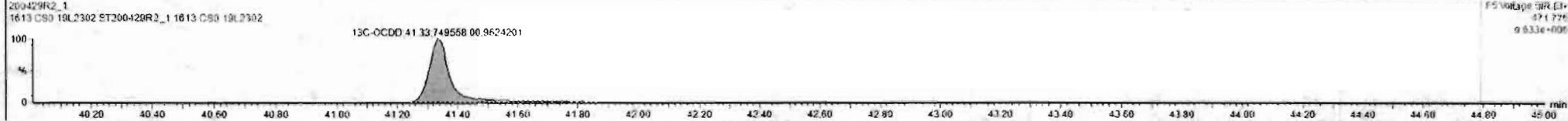
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#	Name	RT	RA	Yn	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0407
2	1,2,3,7,8-PeCDD	31.12	0.587	NO	1.2678e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.9568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1906e4	1.1604e6	1.250	-10.2	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.5	7.57	0.933	0.0767
8	2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.96	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.455	NO	2.0204e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.234	NO	1.3454e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.927	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.967	NO	8.5552e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6218e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.862	0.0575



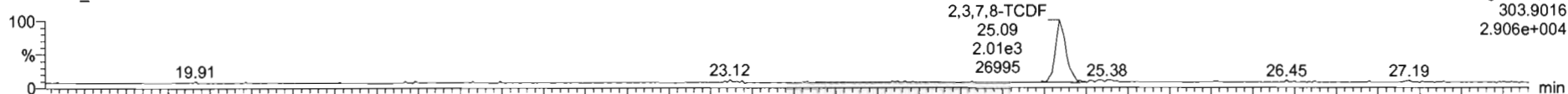
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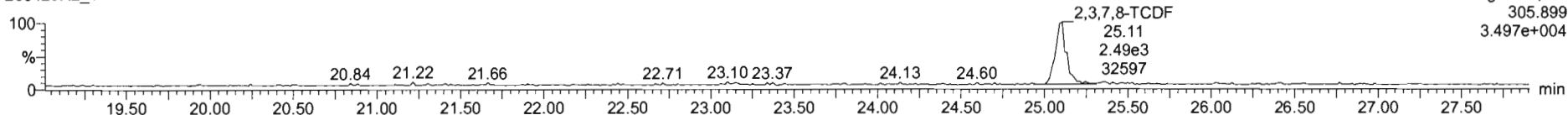
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**2,3,7,8-TCDF**

200429R2\_1

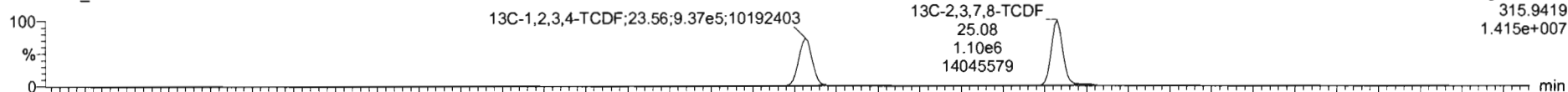


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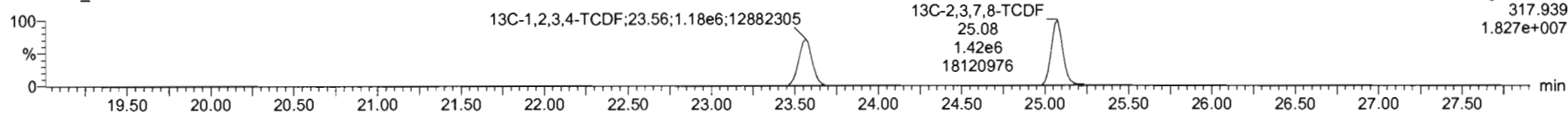


**13C-2,3,7,8-TCDF**

200429R2\_1

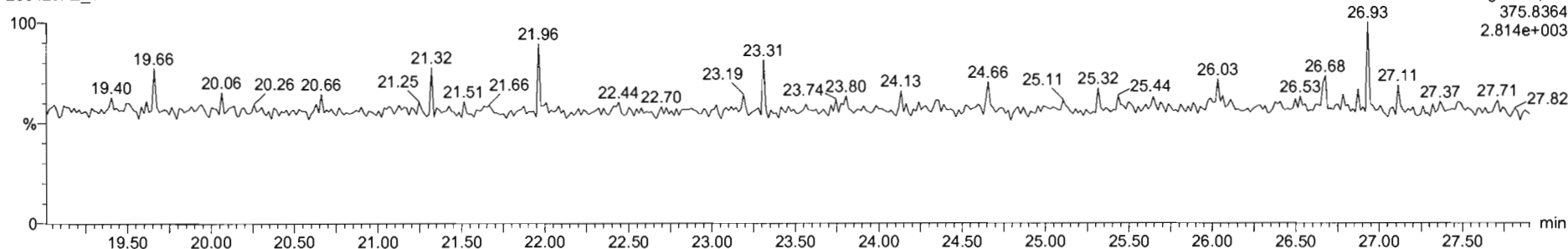


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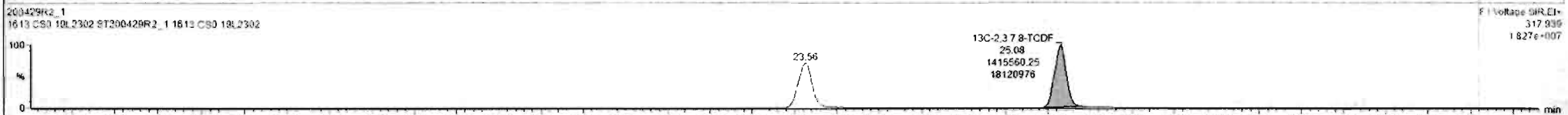
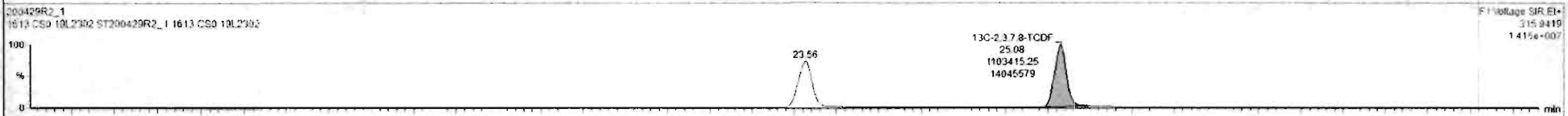
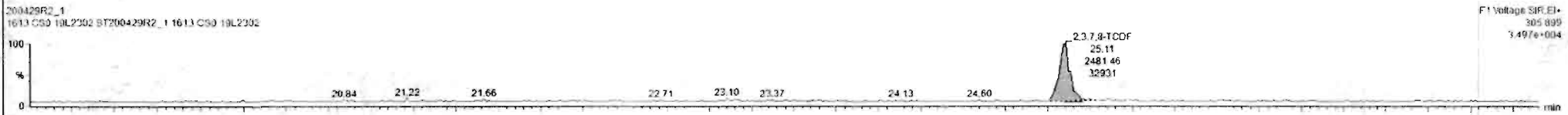
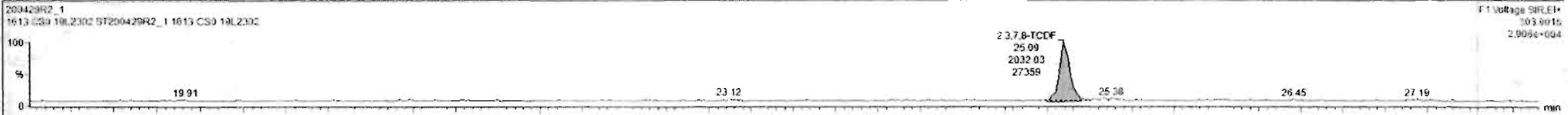


**DPE1**

200429R2\_1



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDF	25.07	0.813	NO	3.6607e3	1.7032e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.13	0.587	NO	1.2578e4	1.1545e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.301e3	3.1686e5	1.250	-13.5	6.93	0.698	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.0	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5135e3	2.5190e6	0.250	-8.9	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.5	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.6427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.2494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	3.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8018e3	5.9612e5	1.250	-11.4	6.82	1.01	0.0879
17	OCDF	41.52	0.838	NO	1.4068e4	1.6198e6	2.500	-13.4	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2\_1

CAP NUM

3:57 AM



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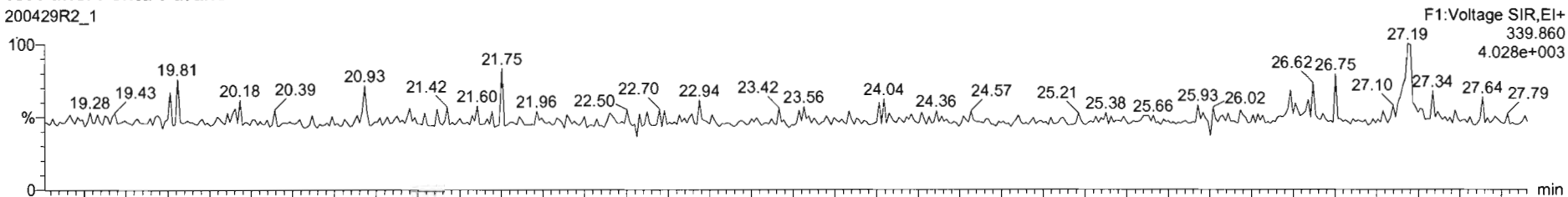
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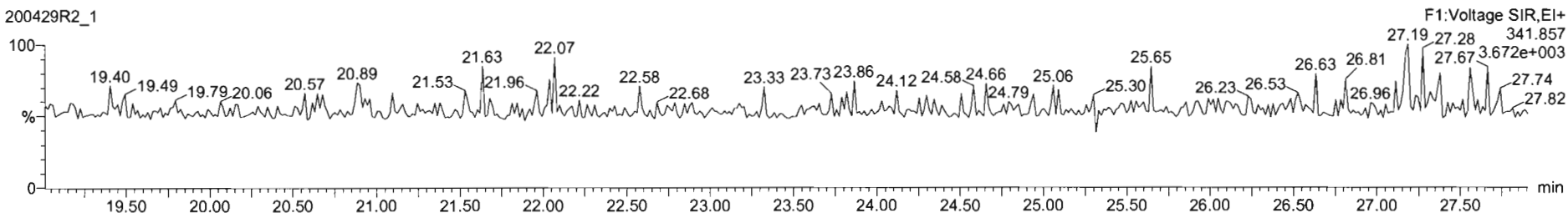
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1st Func. Penta-Furans

200429R2\_1

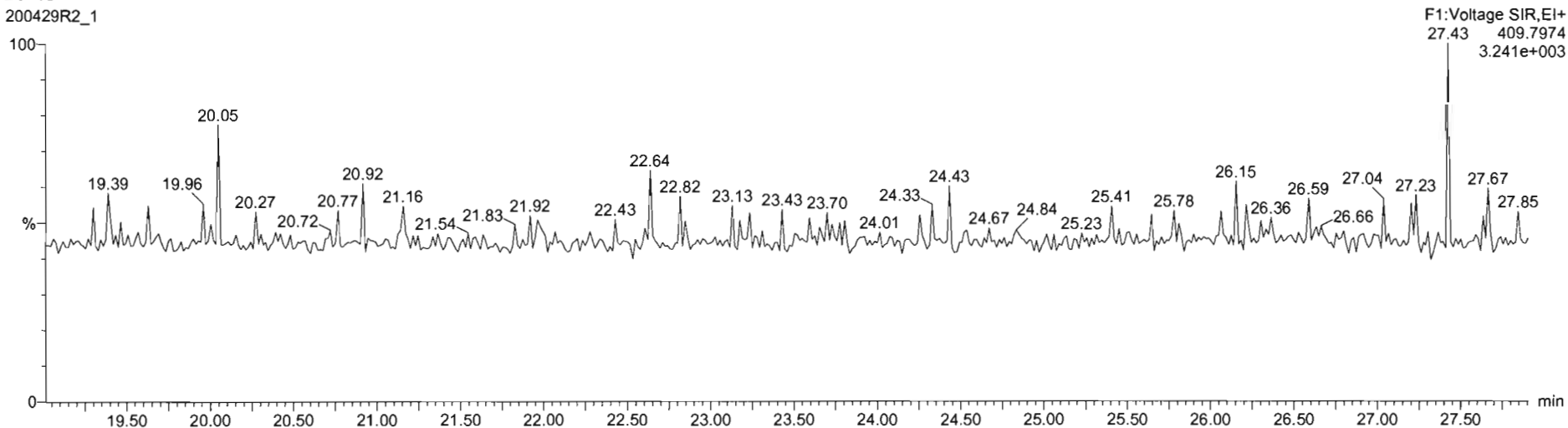


200429R2\_1



DPE6

200429R2\_1

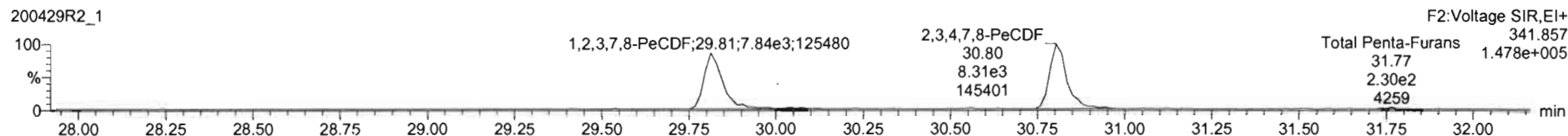
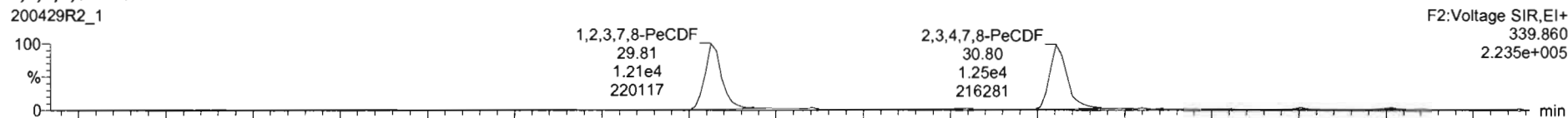


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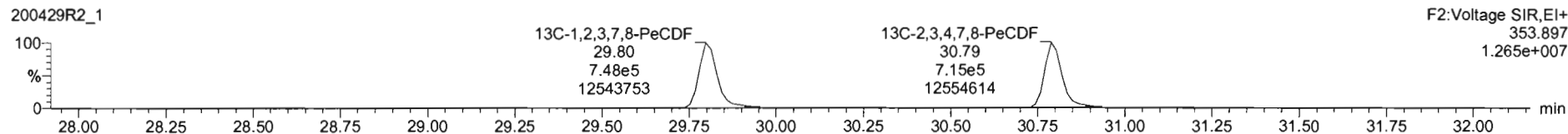
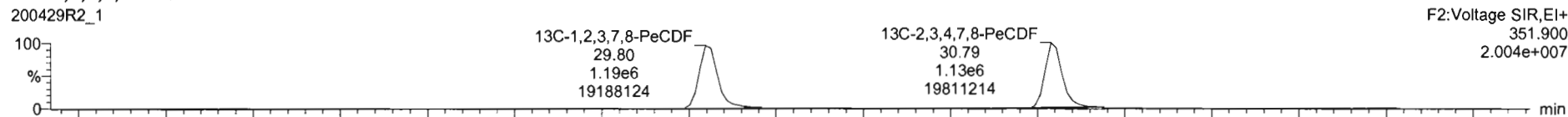
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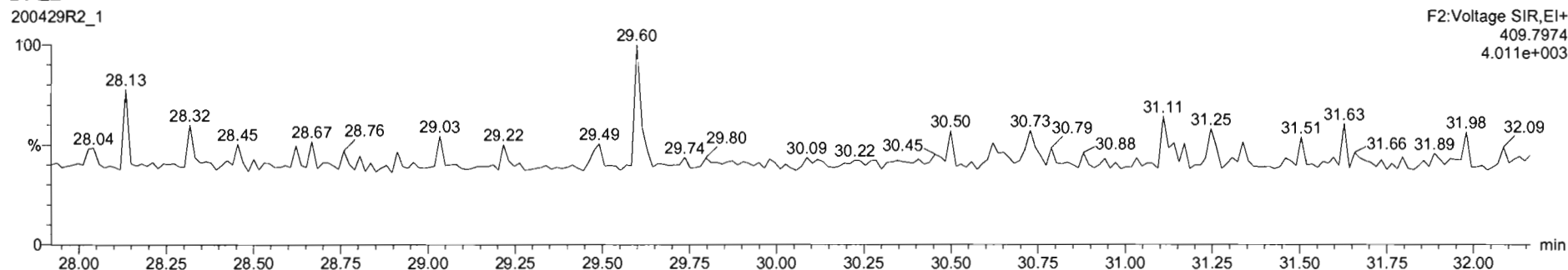
**1,2,3,7,8-PeCDF**

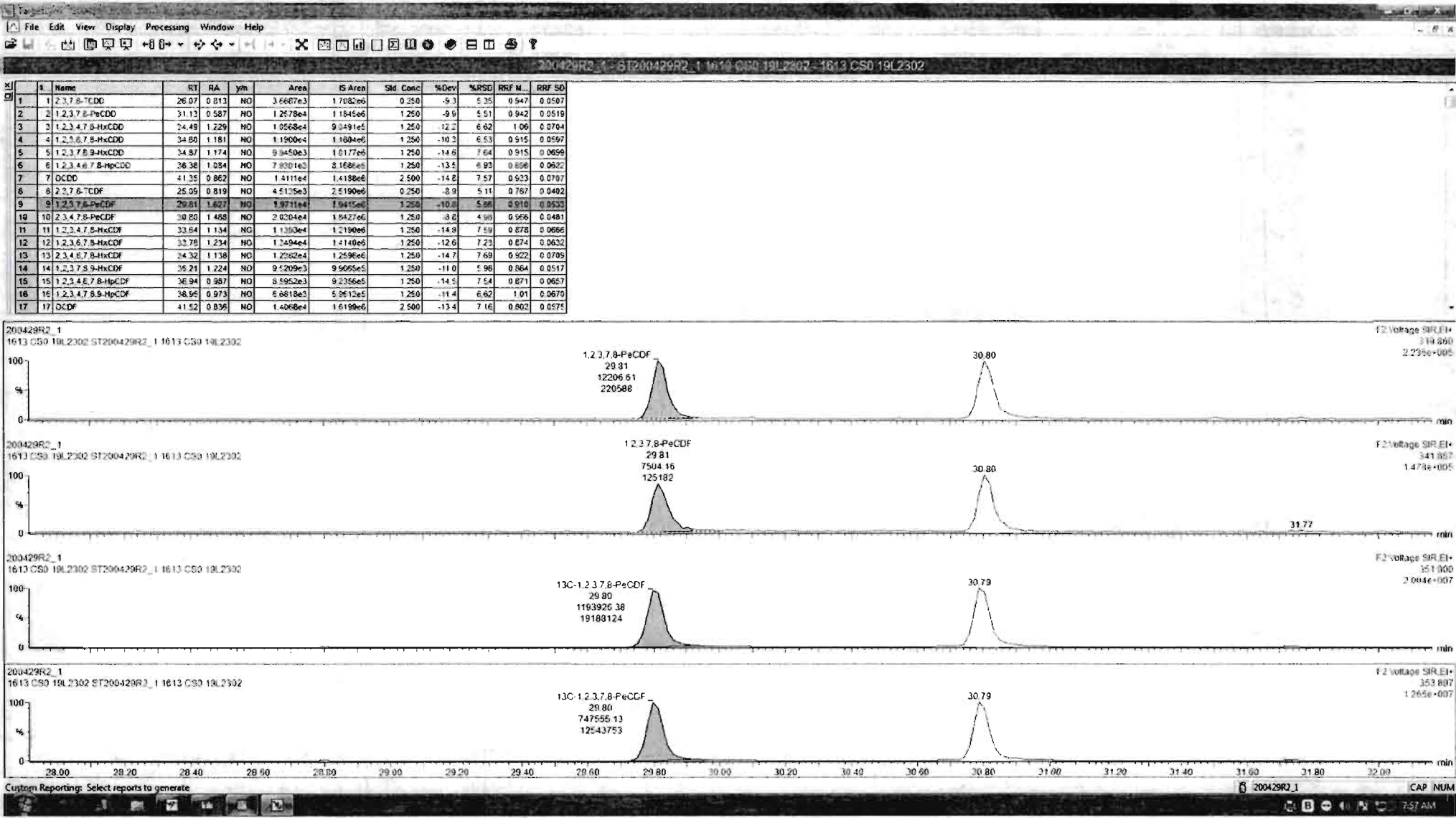


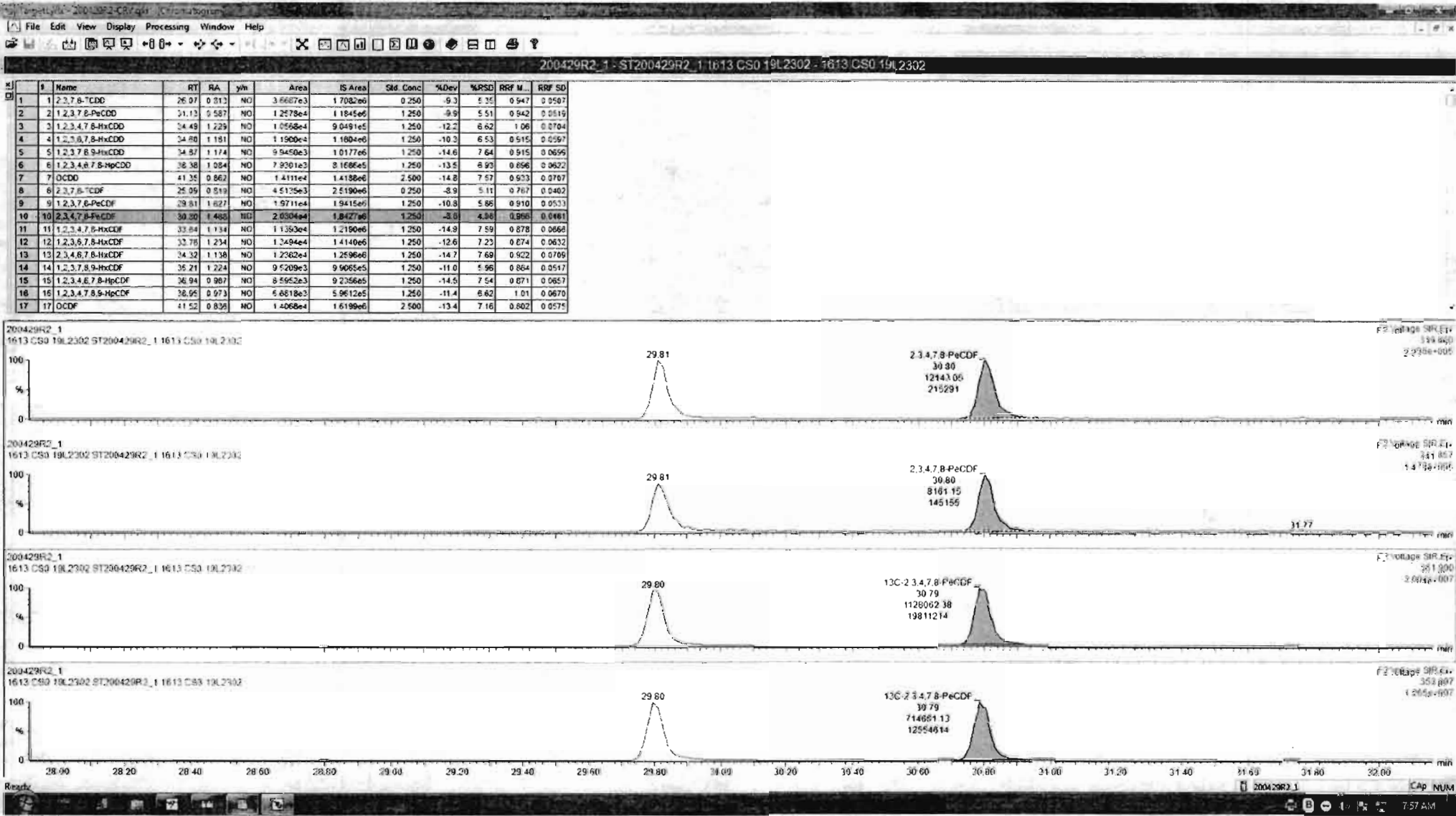
**13C-1,2,3,7,8-PeCDF**



**DPE2**







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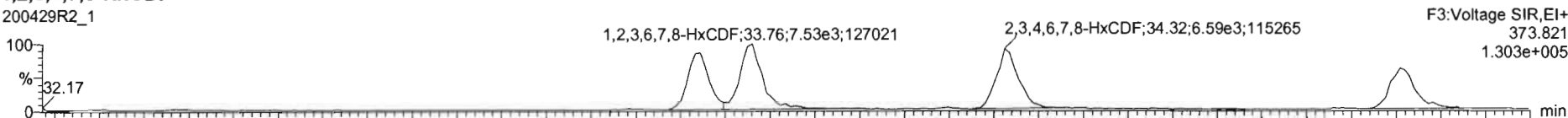
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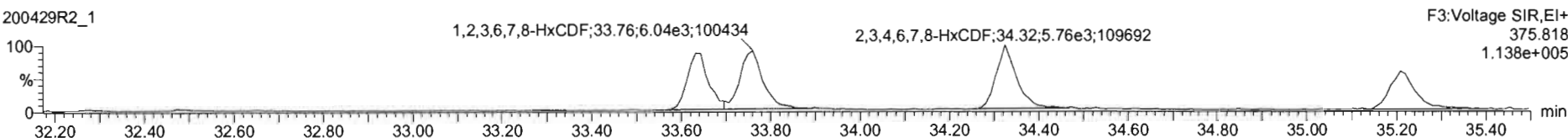
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**1,2,3,4,7,8-HxCDF**

200429R2\_1

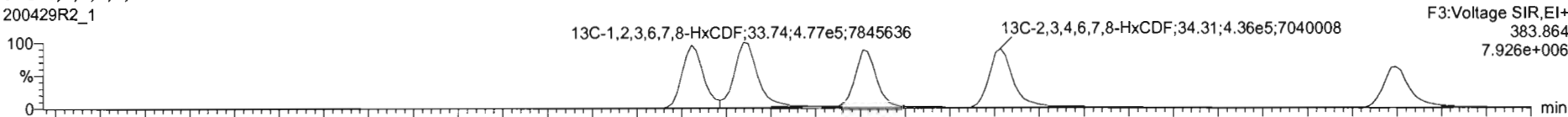


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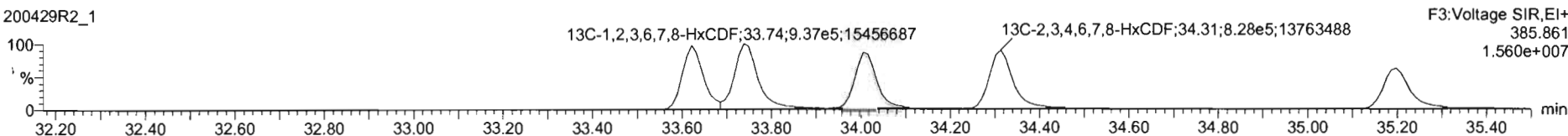


**13C-1,2,3,4,7,8-HxCDF**

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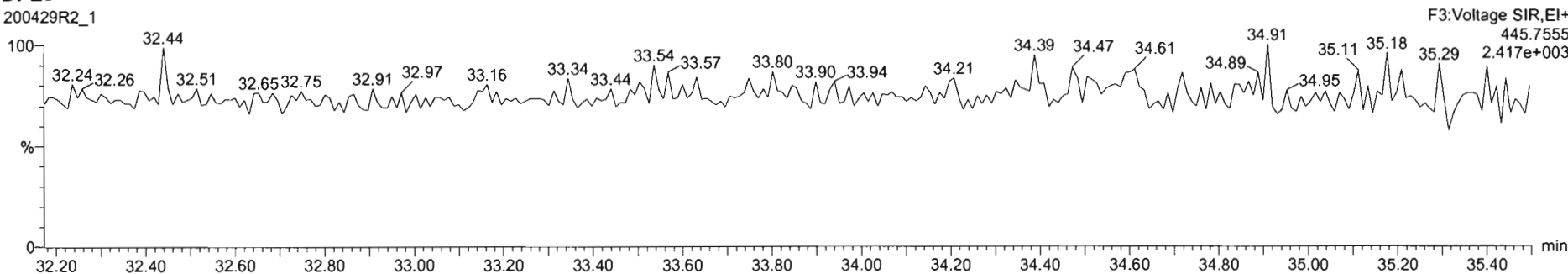


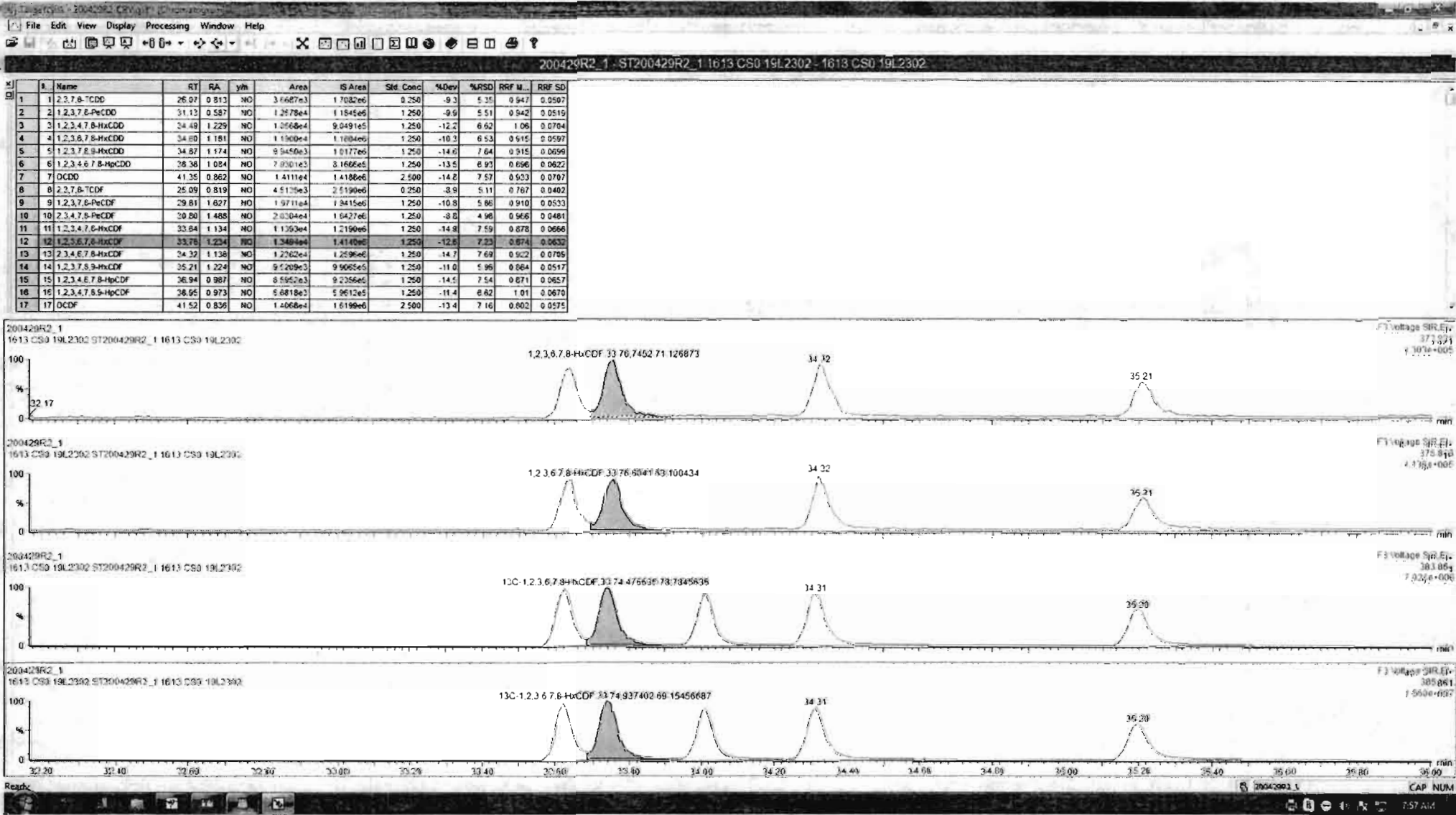
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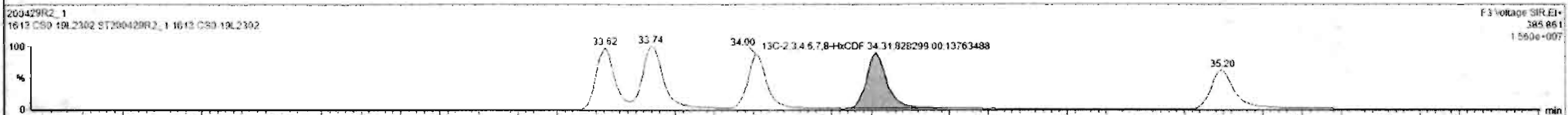
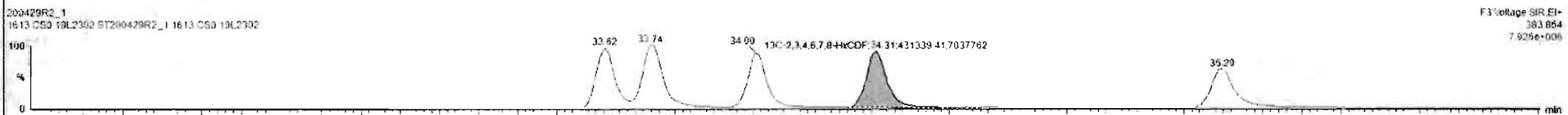
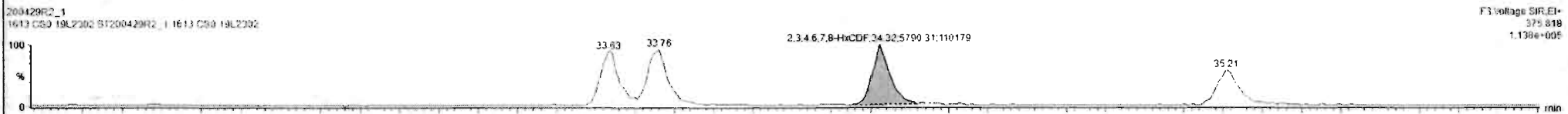
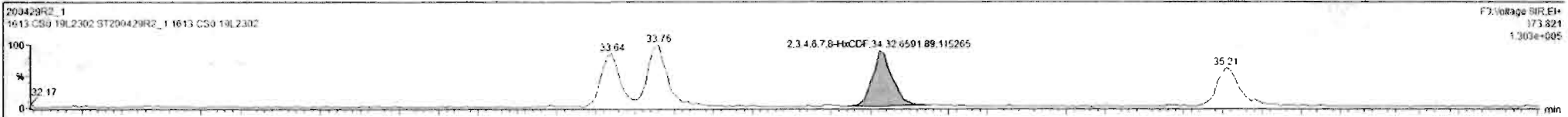
**DPE3**

200429R2\_1





Sl	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	28.07	0.813	NO	3.6667e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2478e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0558e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.57	1.174	NO	9.5450e3	1.0177e6	1.250	-14.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.3001e3	8.1686e5	1.250	-13.5	6.93	0.656	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0787
8	2,2,7,8-TCDF	25.05	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.9427e6	1.250	-8.2	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.70	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.130	NO	1.2232e4	1.2590e6	1.250	-14.7	7.68	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.964	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	DCDF	41.52	0.836	NO	1.4068e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



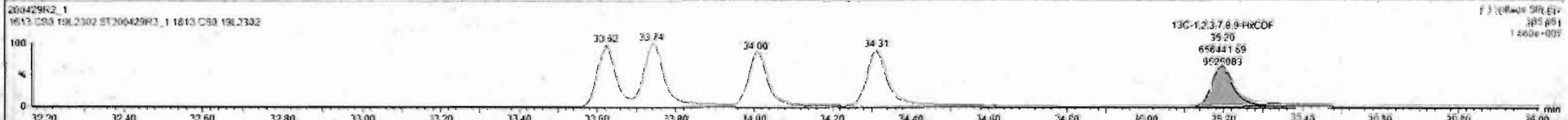
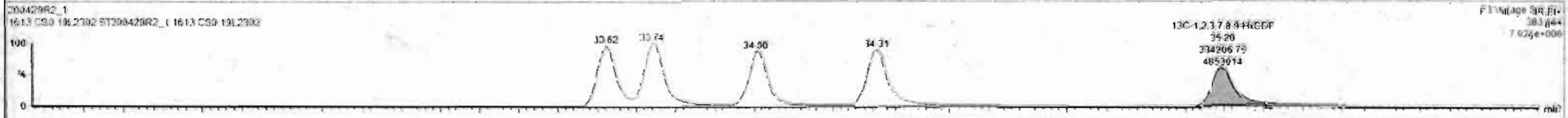
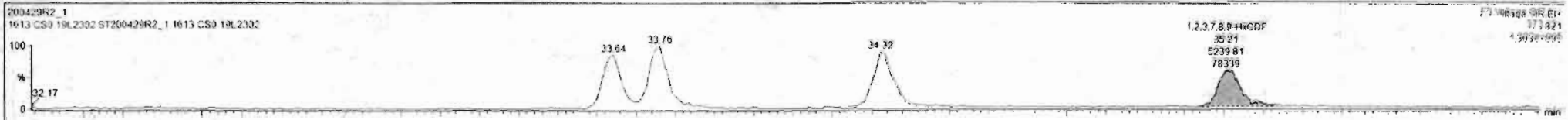
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200429R2\_1

CAP NUM

7:58 AM

#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	6.30	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2178e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1688e6	1.250	-10.3	6.53	0.515	0.0597
5	1,2,3,7,8-HxCDF	34.87	1.174	NO	9.5450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.9016e3	3.1686e5	1.250	-13.5	6.92	0.656	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.623	0.0707
8	1,2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.4196e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,6-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0044e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.37	1.138	NO	1.2062e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.704	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.967	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.82	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4066e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575





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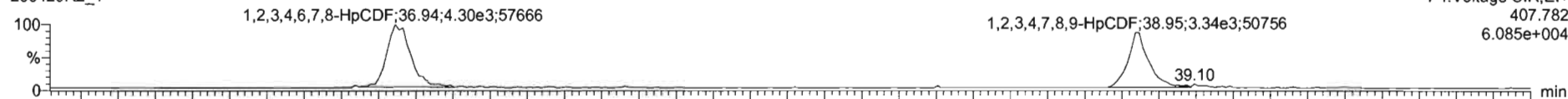
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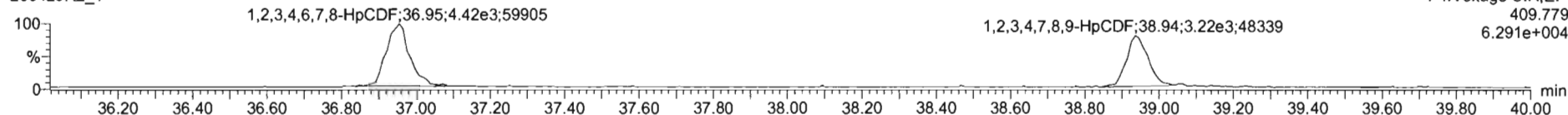
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_1

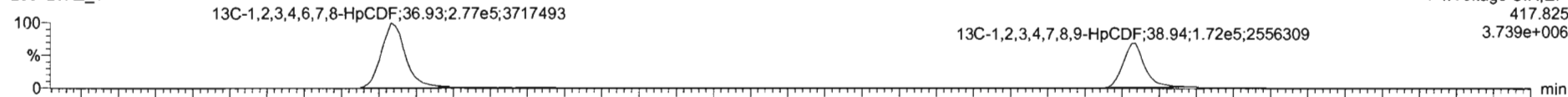


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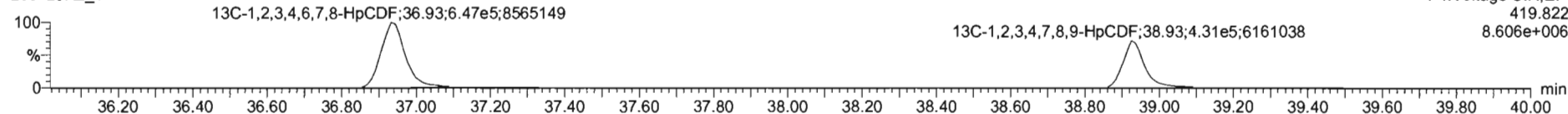


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_1

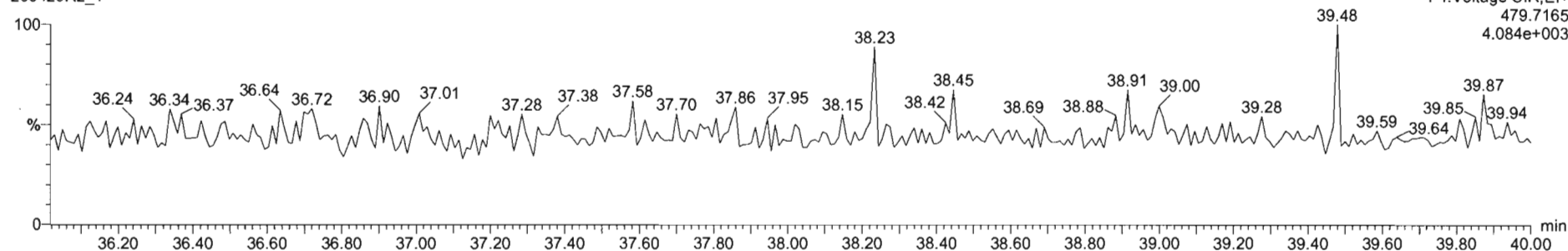


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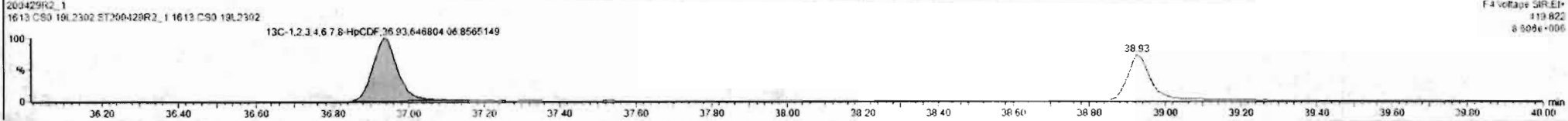
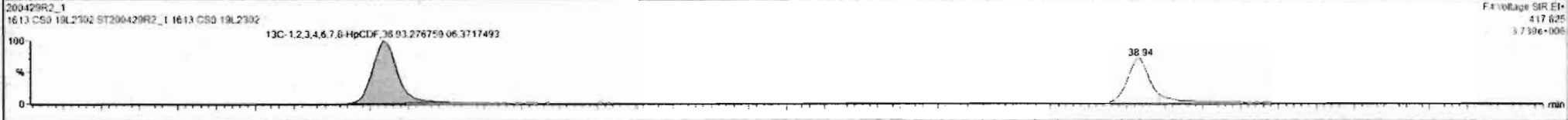
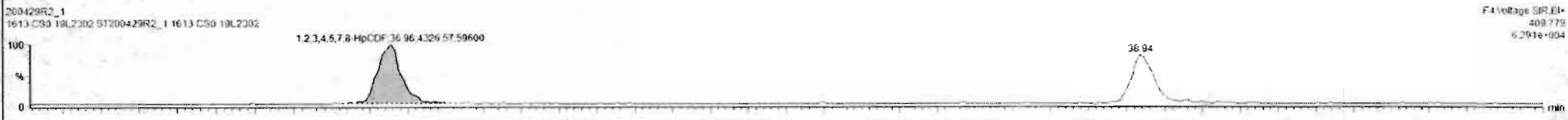
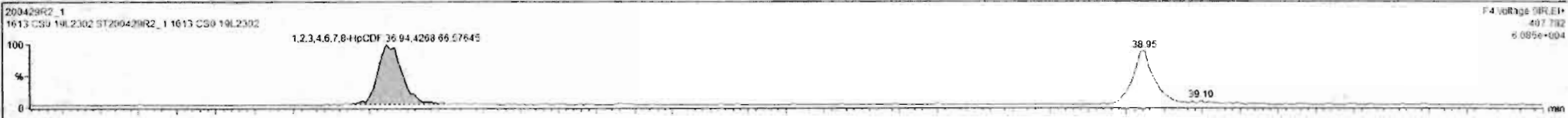


**DPE4**

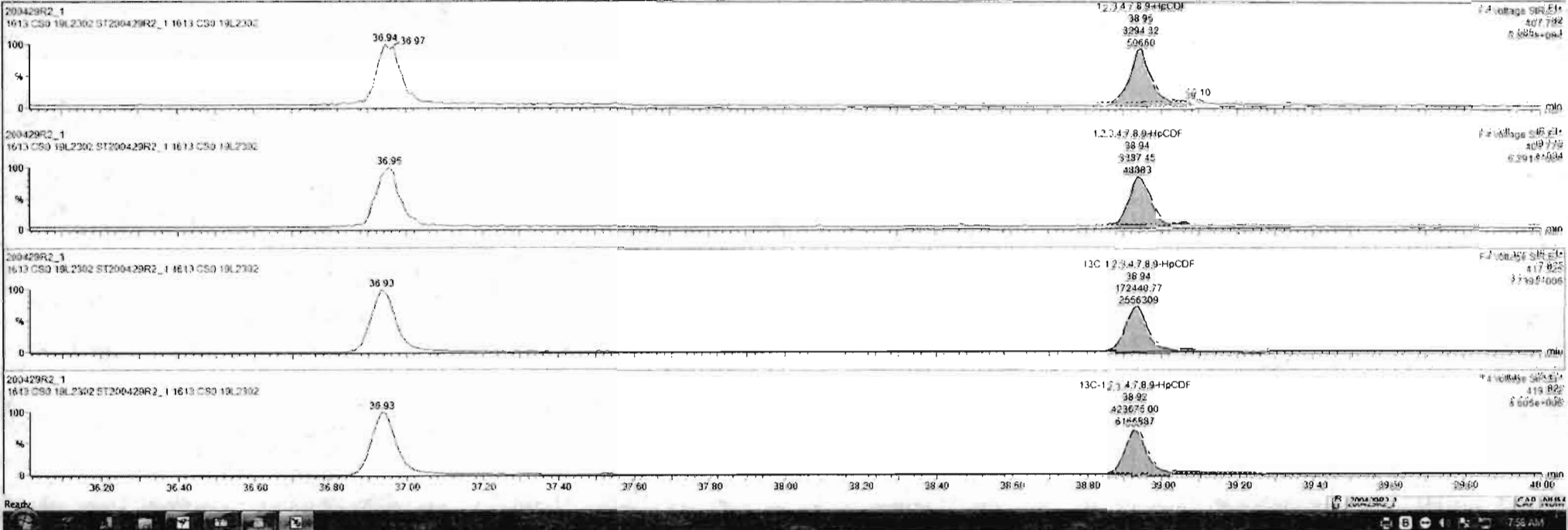
200429R2\_1



#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6667e3	1.7087e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2678e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.9491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1696e5	1.250	-13.5	6.93	0.656	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	1,2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.80	1.468	NO	2.9304e4	1.8427e6	1.250	-8.2	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.68	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.984	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5862e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	36.95	0.873	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	9.3	6.35	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.5	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.161	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.515	0.0592
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.054	NO	7.9301e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4198e6	2.500	-14.0	7.57	0.923	0.0702
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.458	NO	2.0204e4	1.9427e6	1.250	-8.0	4.98	0.566	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.674	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.6065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8019e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.826	NO	1.4066e4	1.6199e6	2.500	-13.4	7.10	0.802	0.0575



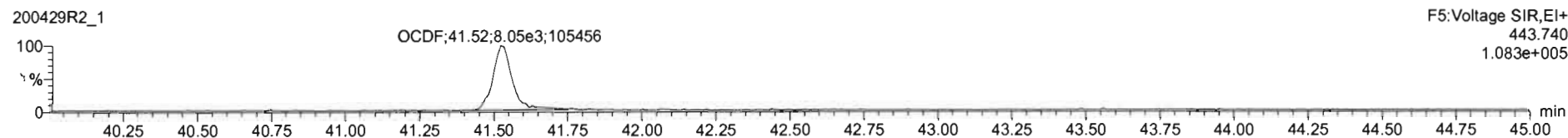
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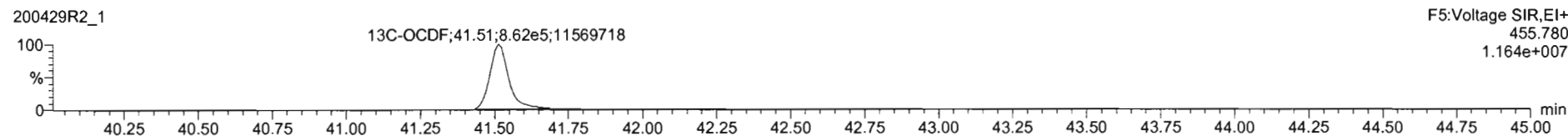
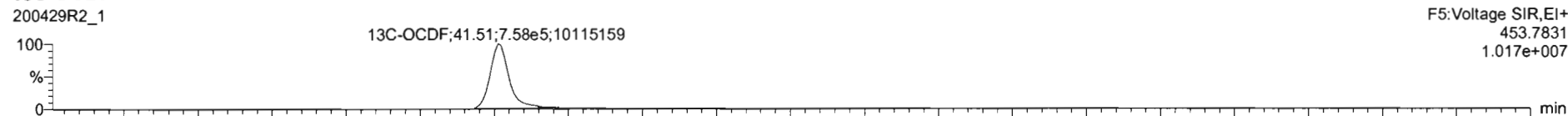
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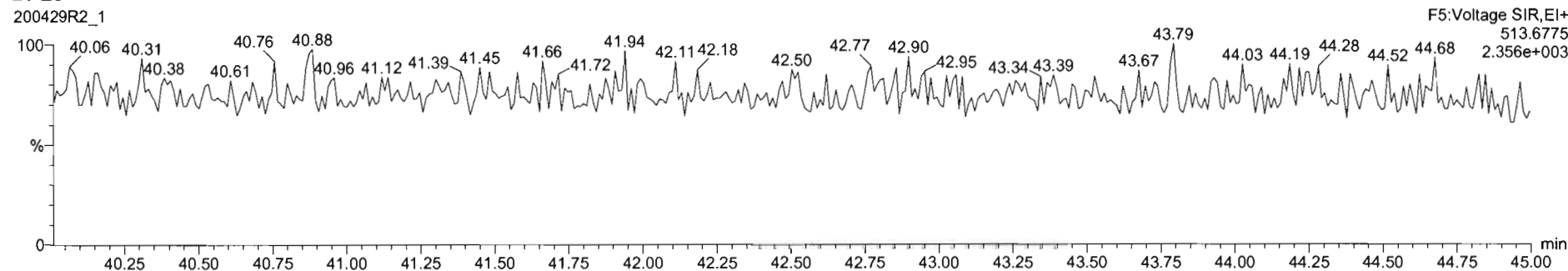
**OCDF**



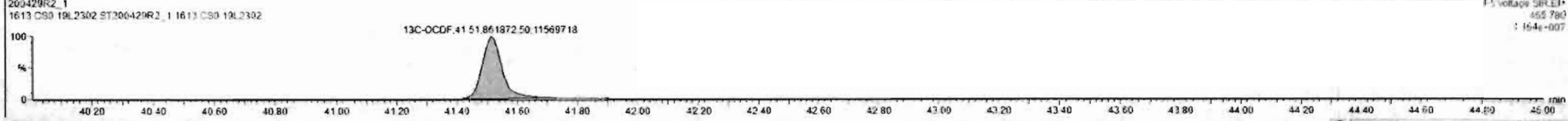
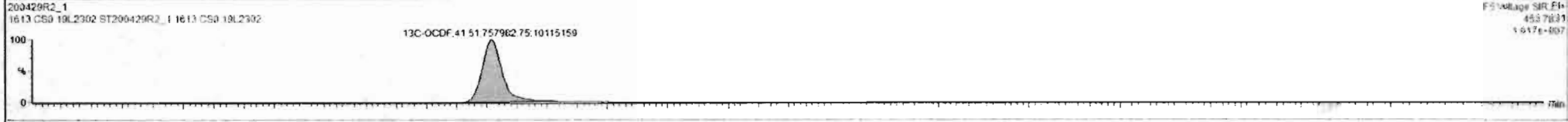
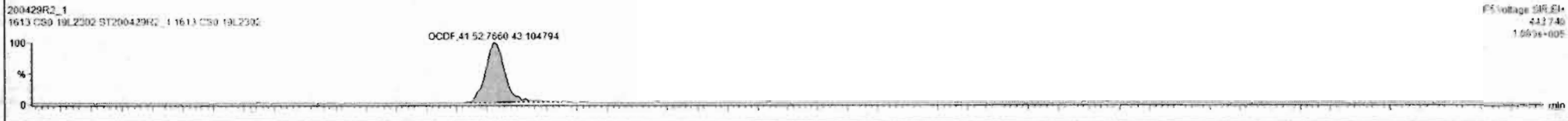
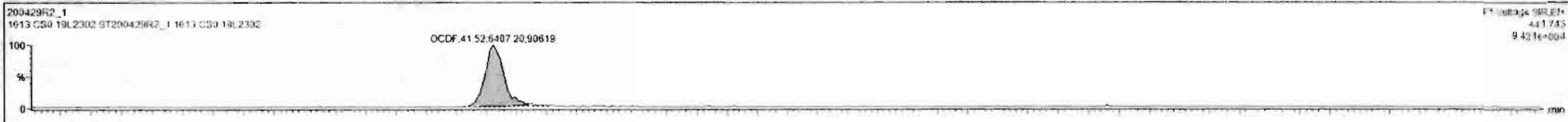
**13C-OCDF**



**DPE5**



#	Name	RT	RA	Yln	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7032e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	9.9	5.51	0.942	0.0516
3	1,2,3,6,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.40	1.191	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.094	NO	7.9201e3	3.1686e5	1.250	-13.5	6.97	0.856	0.0622
7	OCDD	41.35	0.962	NO	1.4111e4	1.4188e6	2.500	-14.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.00	1.488	NO	2.004e4	1.8427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9612e5	1.250	-11.4	6.67	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4065e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575

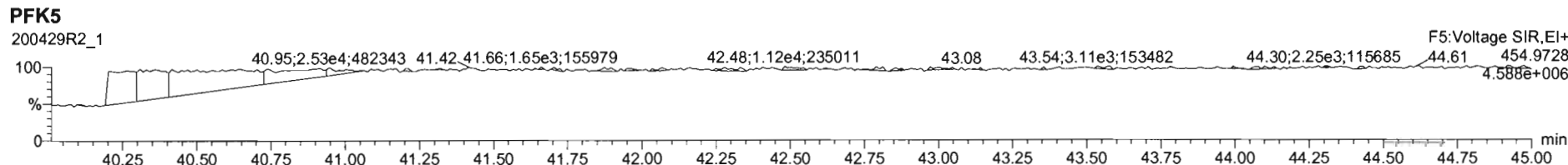
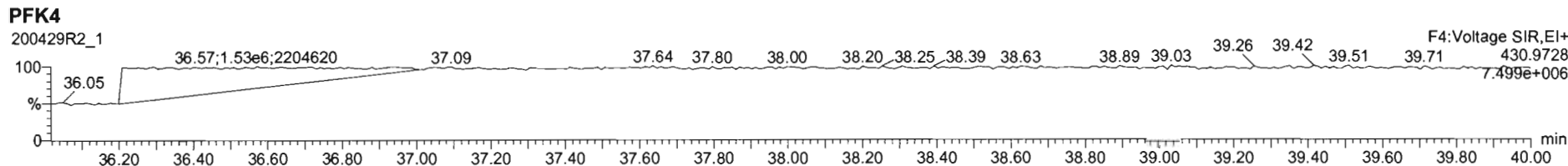
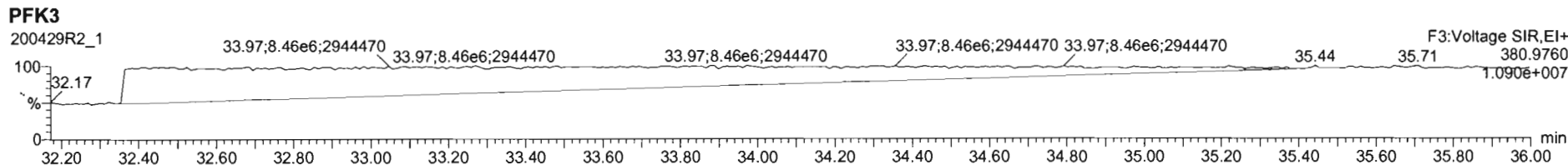
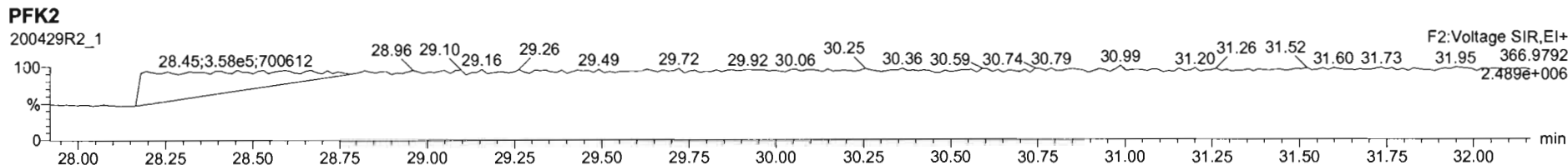
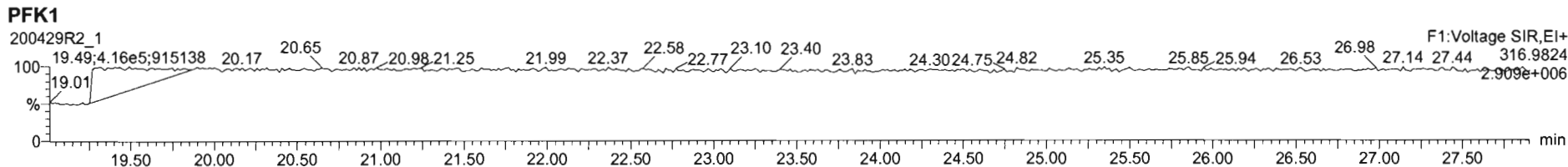


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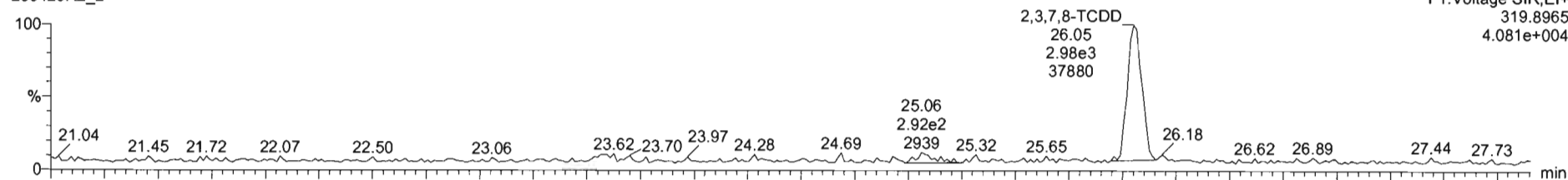
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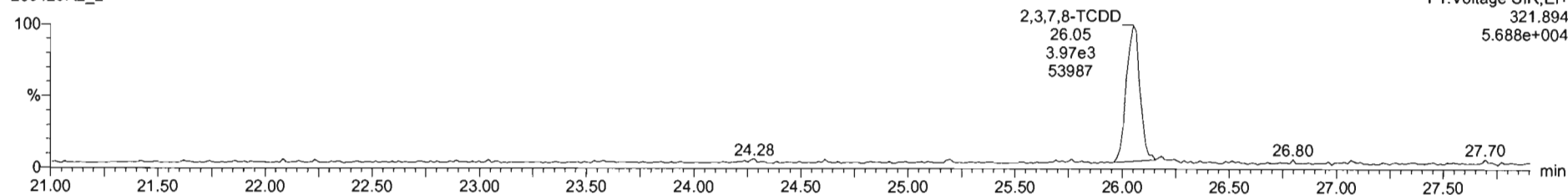
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**2,3,7,8-TCDD**

200429R2\_2

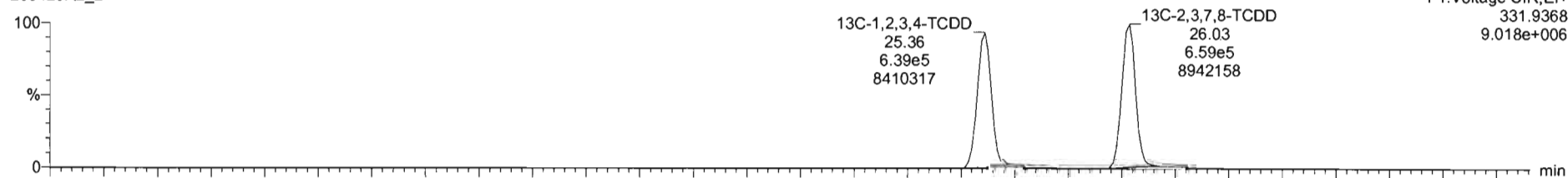


200429R2\_2

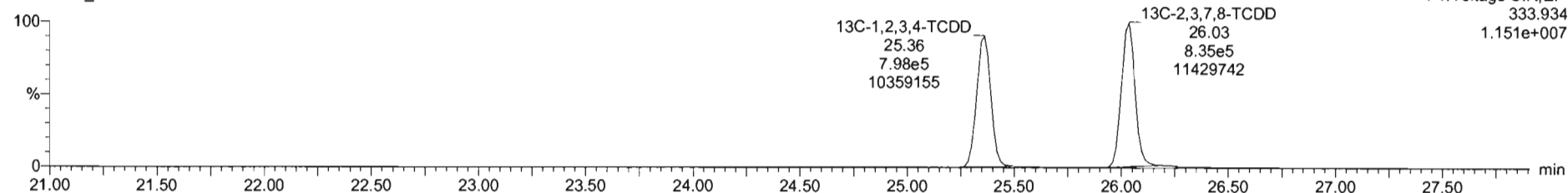


**13C-2,3,7,8-TCDD**

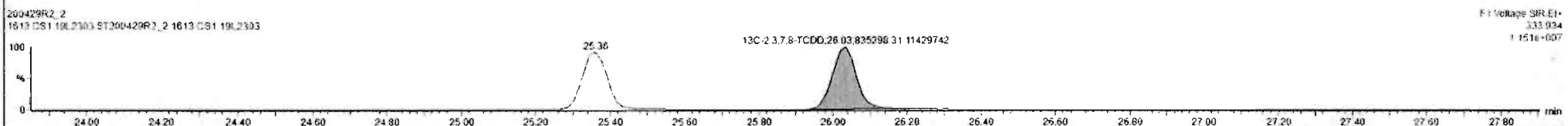
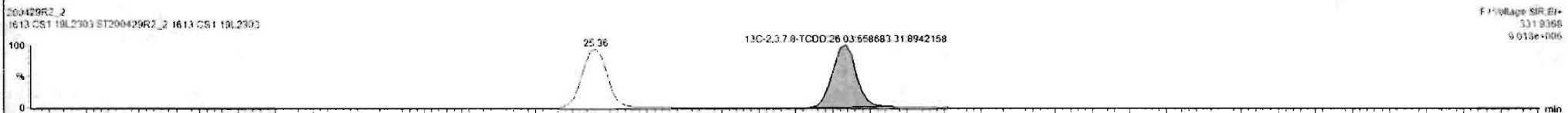
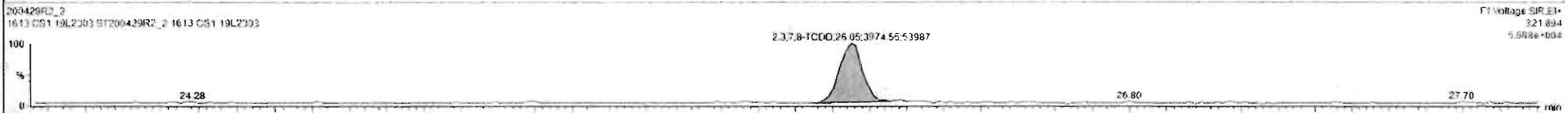
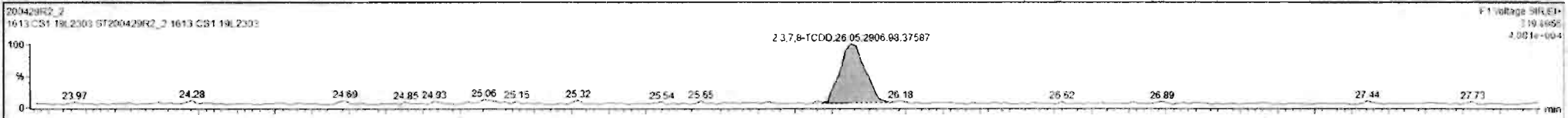
200429R2\_2



200429R2\_2



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8015e3	1.4946e6	6.500	-2.8	5.35	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8509e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.9692e5	2.500	-0.2	6.93	0.696	0.0602
7	OCDD	41.25	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2156e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8524e4	1.6515e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.183	NO	2.3827e4	1.0498e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	6.7735e5	2.500	-1.8	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4610e6	5.000	-2.4	7.16	0.802	0.0575



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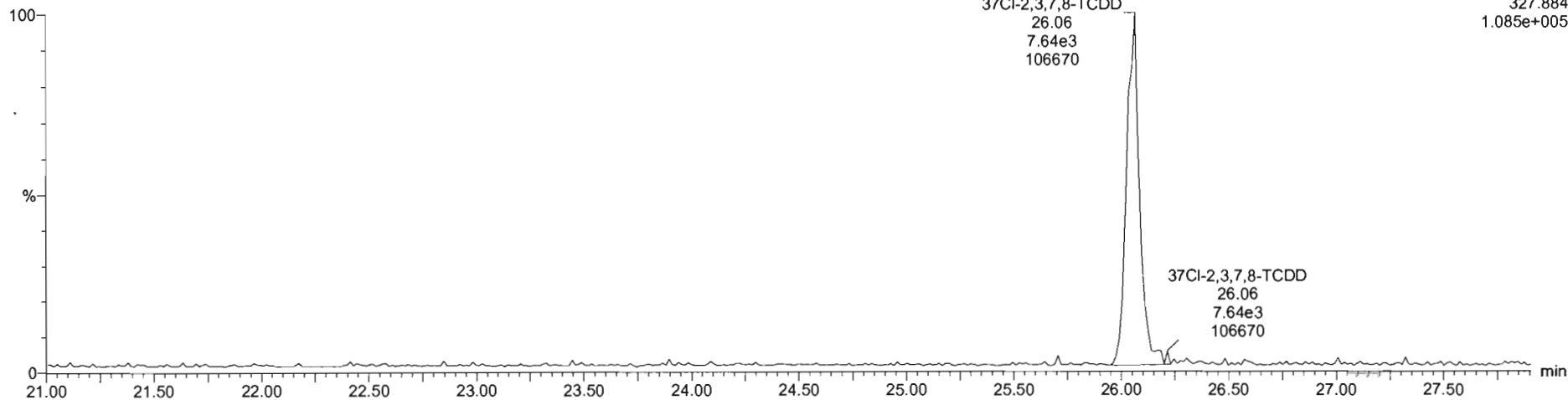
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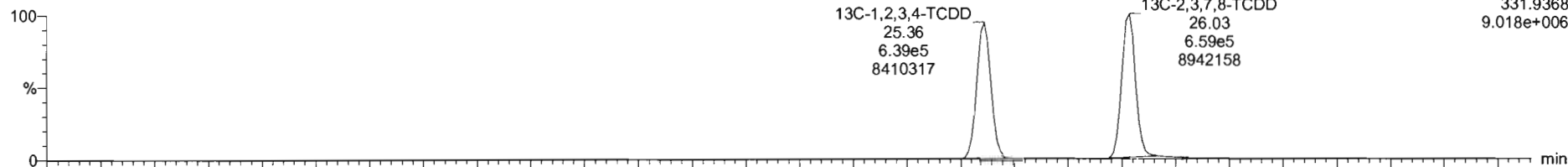
**37Cl-2,3,7,8-TCDD**

200429R2\_2

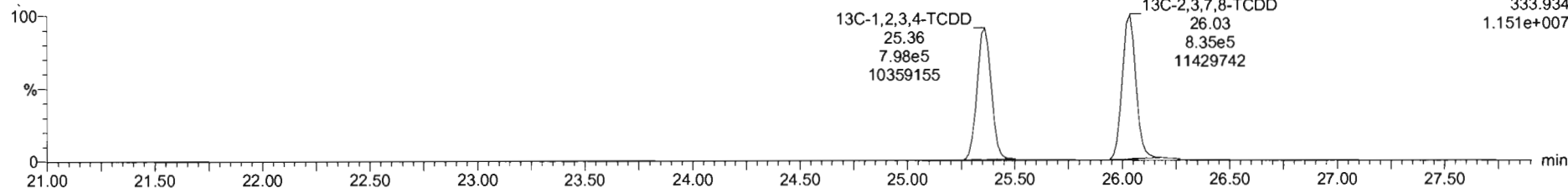


**13C-1,2,3,4-TCDD**

200429R2\_2



200429R2\_2



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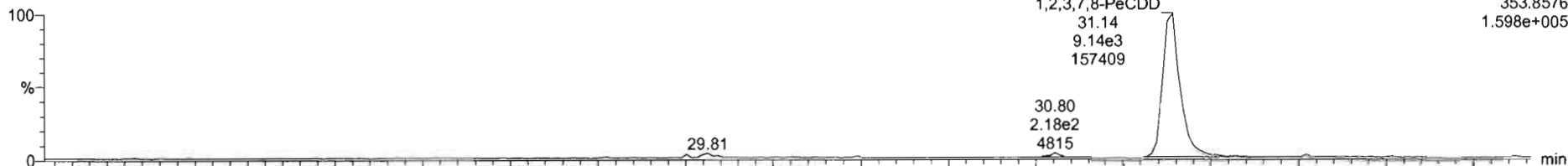
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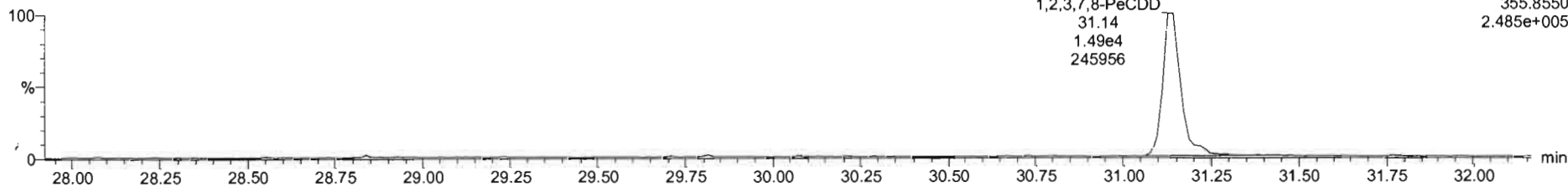
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**1,2,3,7,8-PeCDD**

200429R2\_2

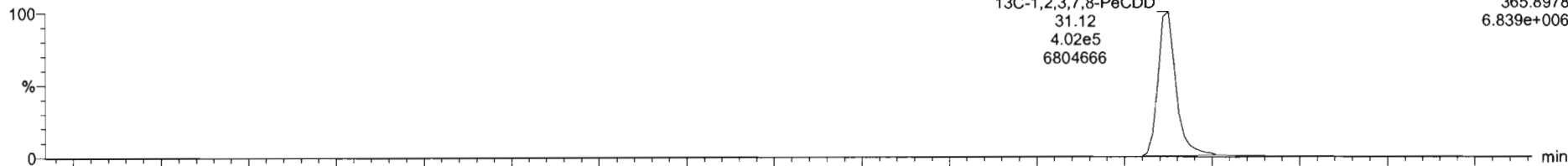


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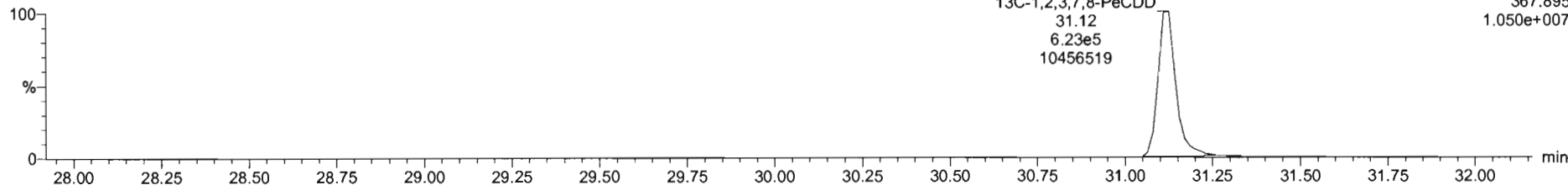


**13C-1,2,3,7,8-PeCDD**

200429R2\_2



200429R2\_2



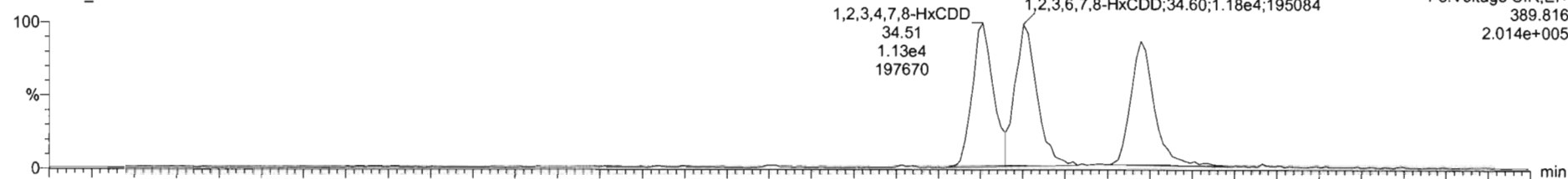
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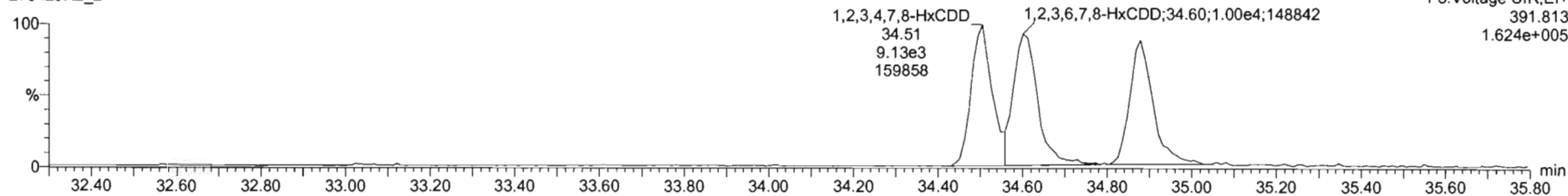
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**1,2,3,4,7,8-HxCDD**

200429R2\_2

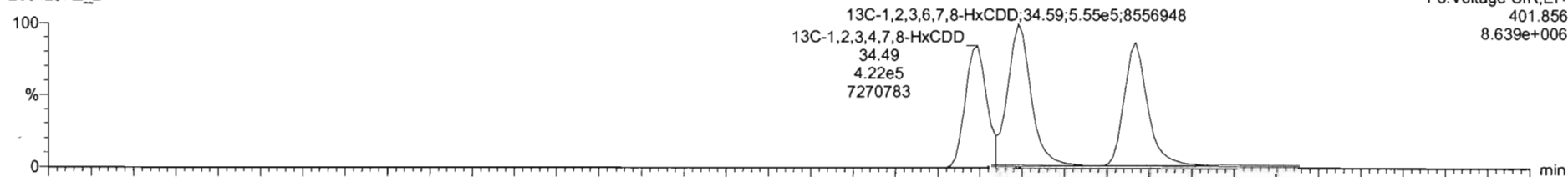


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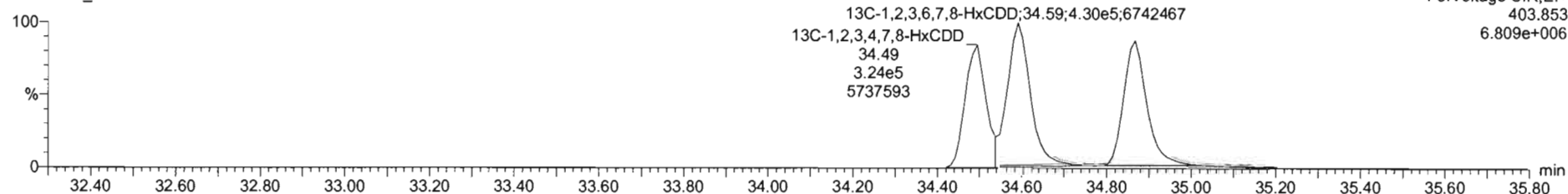


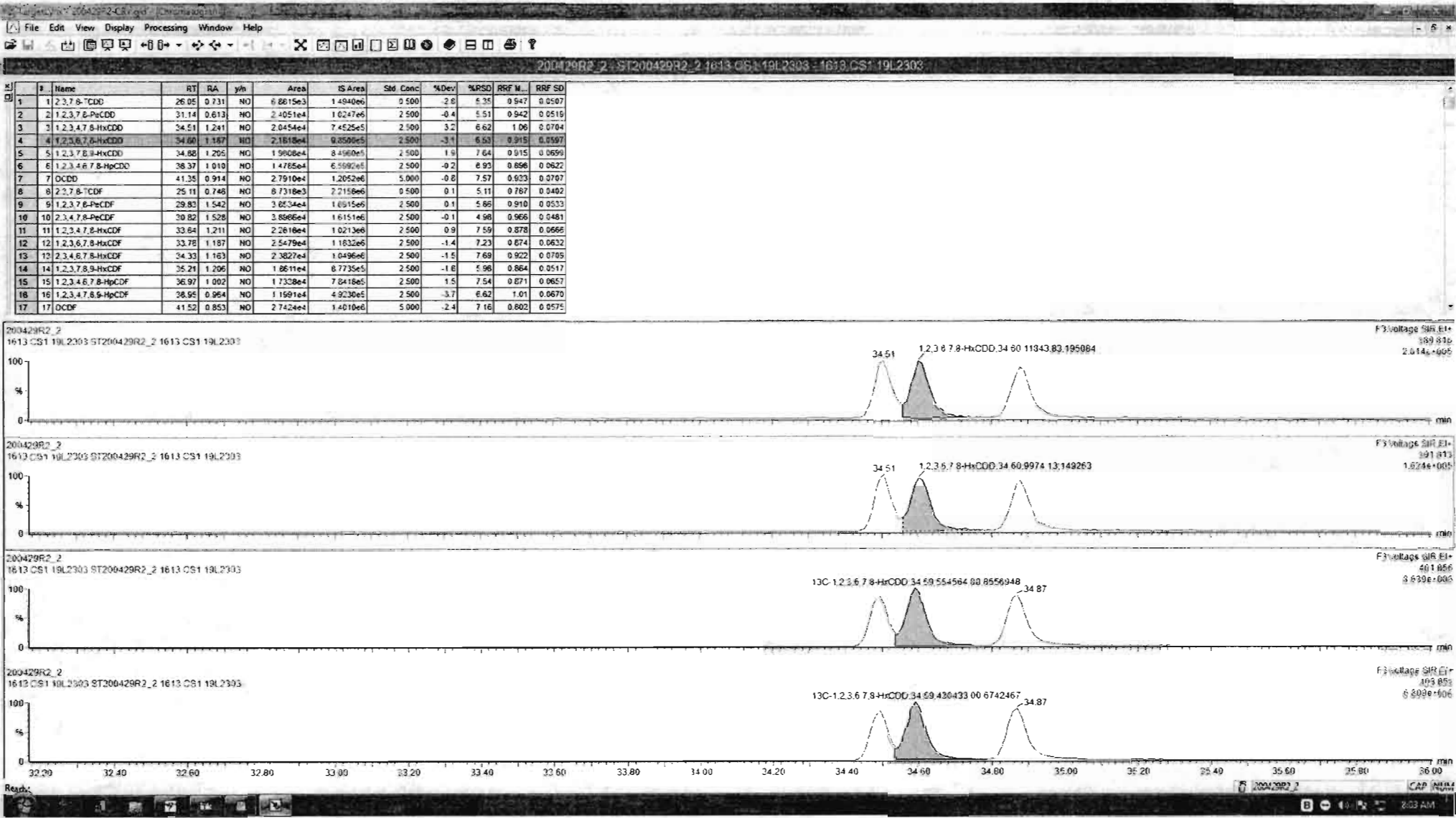
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200429R2\_2

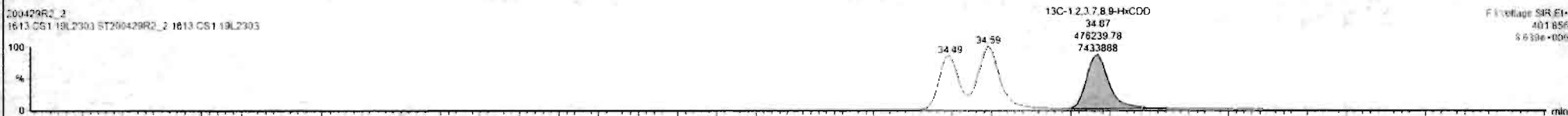


200429R2\_2





#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8815e3	1.4840e0	0.500	-2.6	5.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	-0.4	5.51	0.942	0.0510
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.187	NO	2.1610e4	9.9500e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.225	NO	1.9020e4	8.4500e5	2.500	1.9	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4765e4	6.5982e5	2.500	-0.2	6.93	0.856	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2180e0	0.500	0.1	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.542	NO	3.8524e4	1.6915e6	2.500	0.1	5.86	0.910	0.0523
10	1,2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8866e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	1.8	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

Dataset: Untitled

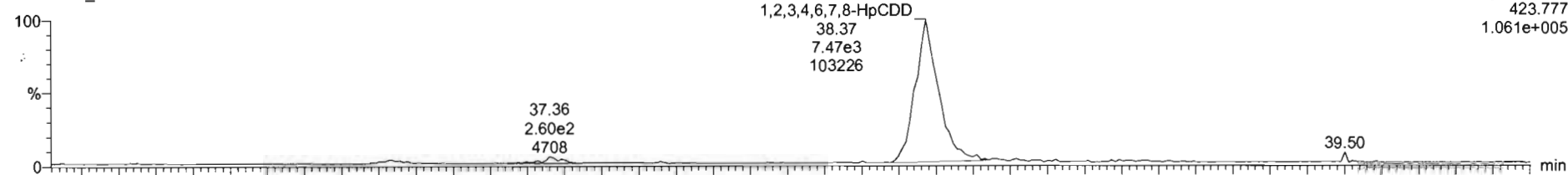
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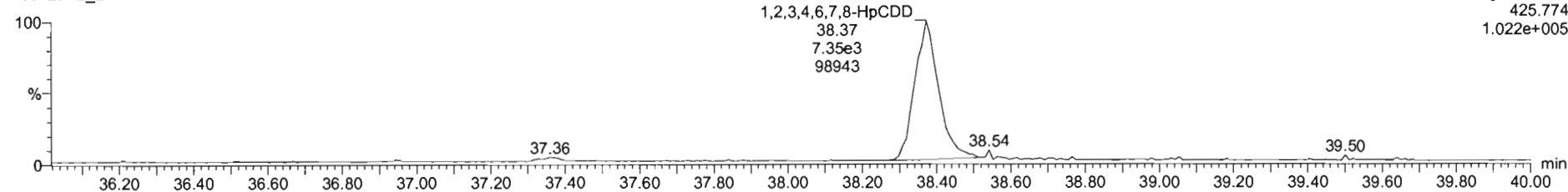
**1,2,3,4,6,7,8-HpCDD**

200429R2\_2



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

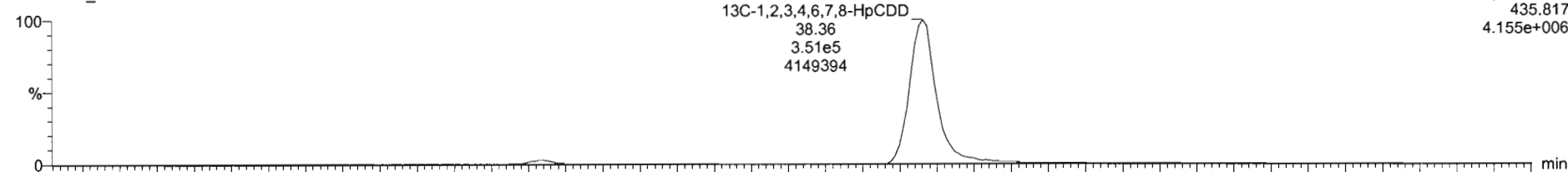
200429R2\_2



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

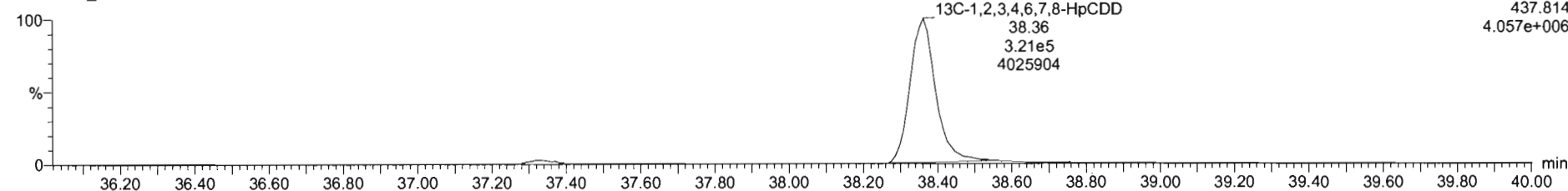
**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_2



F4:Voltage SIR,EI+  
435.817  
4.155e+006

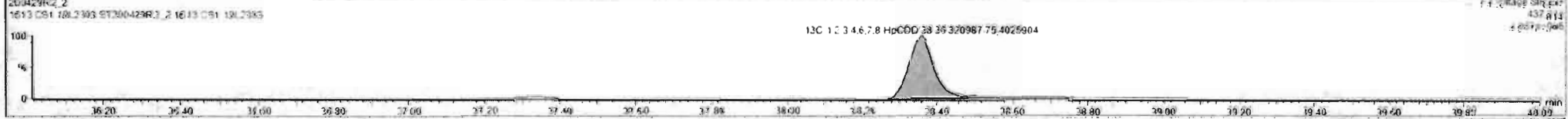
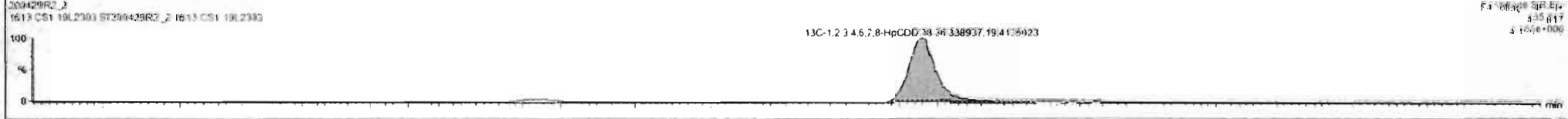
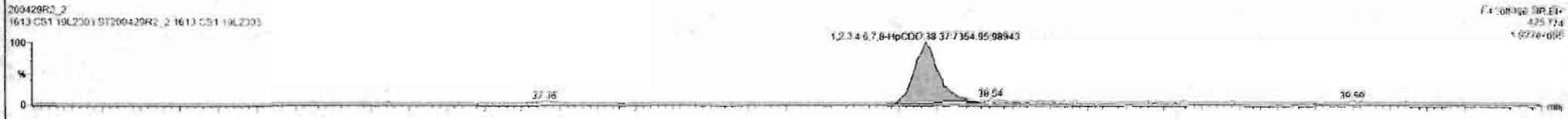
200429R2\_2



F4:Voltage SIR,EI+  
437.814  
4.057e+006

200429R2\_2 - ST200429R2\_2 1613 CS1 19L2303 - 1613 CS1 19L2303

#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF U	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.6015e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0794
4	1,2,3,6,7,8-HxCDD	34.60	1.197	NO	2.1210e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.205	NO	1.9008e4	8.4960e5	2.500	1.9	7.54	0.915	0.0590
6	1,2,3,4,6,7,8-HpCDD	38.37	1.910	NO	1.4765e4	6.9920e5	2.500	-0.2	6.95	0.808	0.0620
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.0707
8	1,2,3,7,8-TCDF	25.11	0.748	NO	8.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.80	1.042	NO	3.6534e4	1.0515e6	2.500	0.1	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.82	1.528	NO	3.6966e4	1.6151e6	2.500	-0.1	4.98	0.956	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2910e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3027e4	1.0496e6	2.500	-1.6	7.69	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.6611e4	6.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.007	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0857
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



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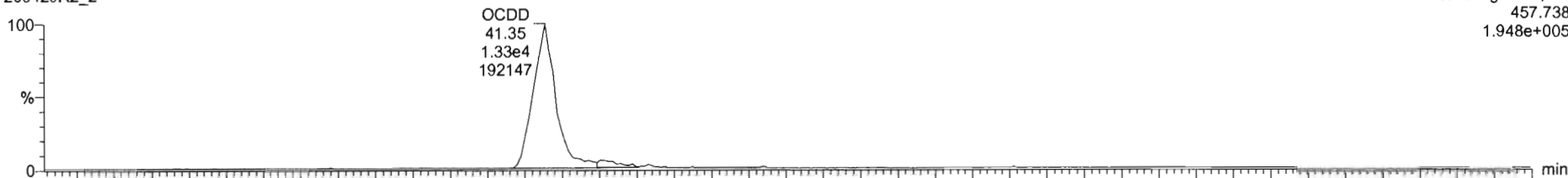
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**OCDD**

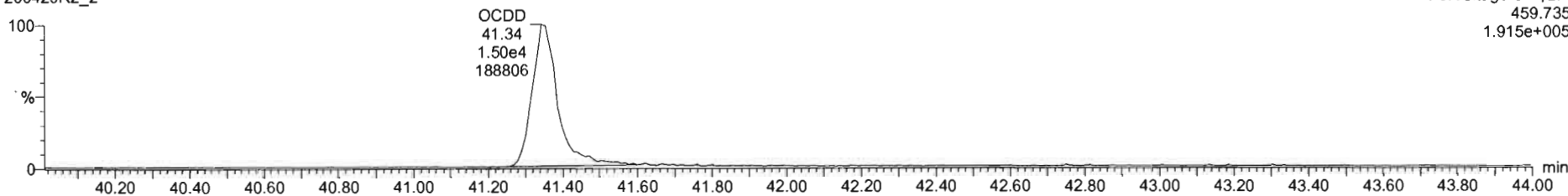
200429R2\_2

F5:Voltage SIR,EI+  
457.738  
1.948e+005



200429R2\_2

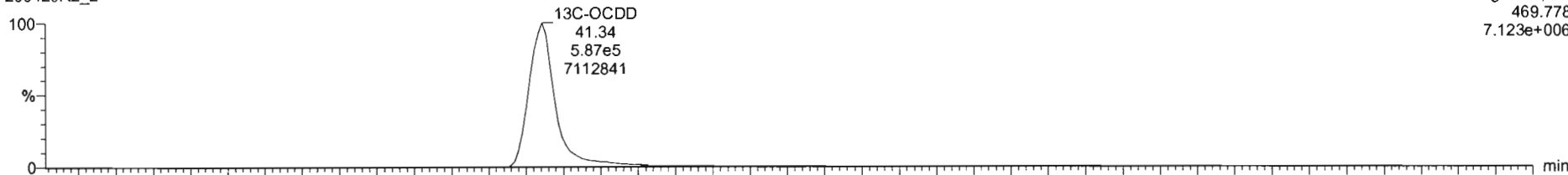
F5:Voltage SIR,EI+  
459.735  
1.915e+005



**13C-OCDD**

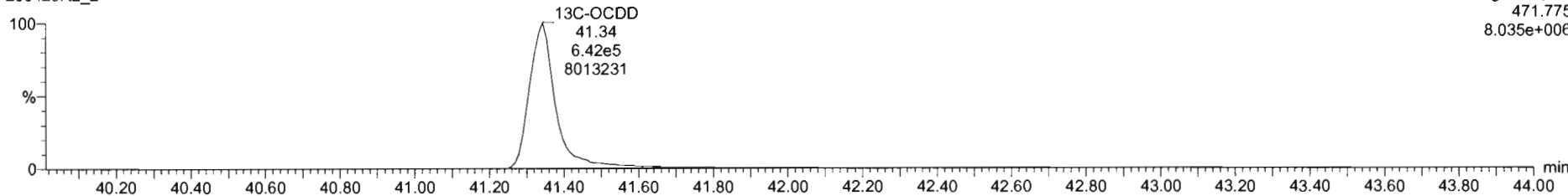
200429R2\_2

F5:Voltage SIR,EI+  
469.778  
7.123e+006

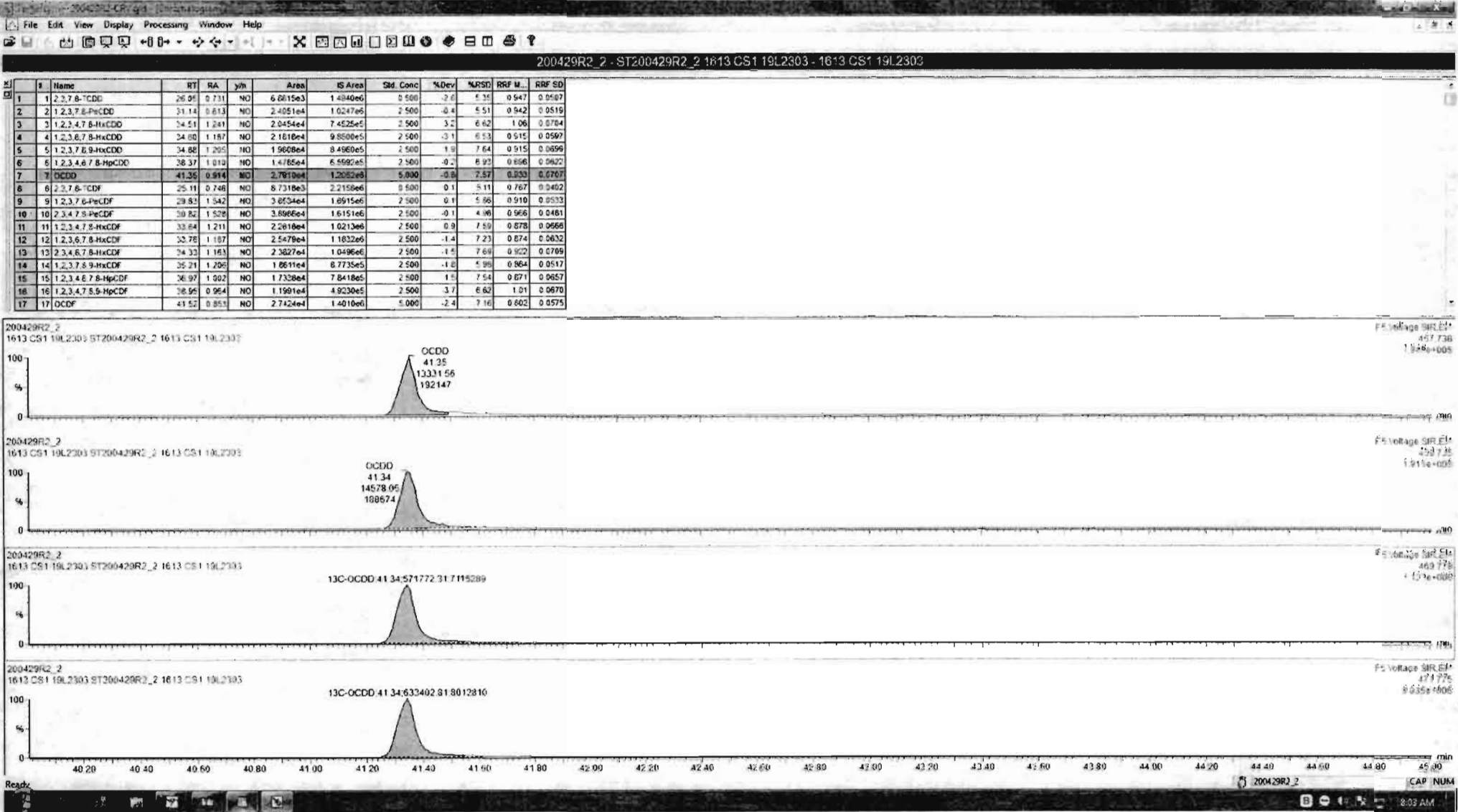


200429R2\_2

F5:Voltage SIR,EI+  
471.775  
8.035e+006







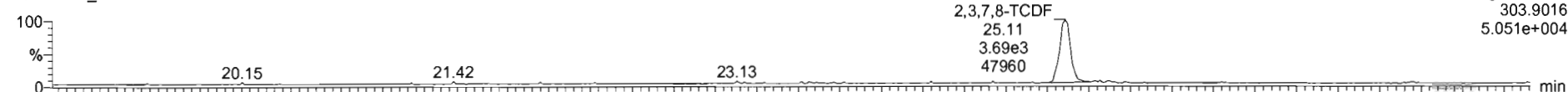
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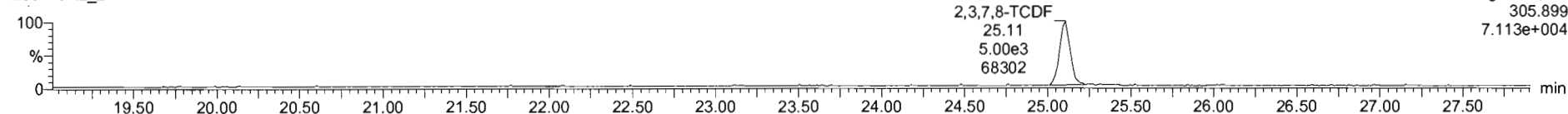
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**2,3,7,8-TCDF**

200429R2\_2

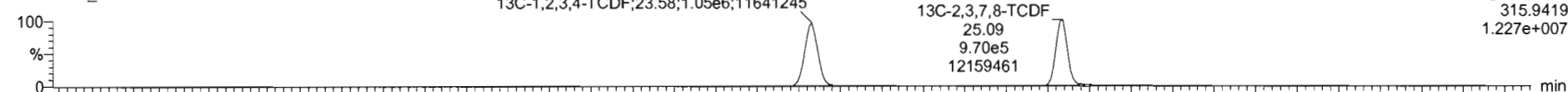


200429R2\_2

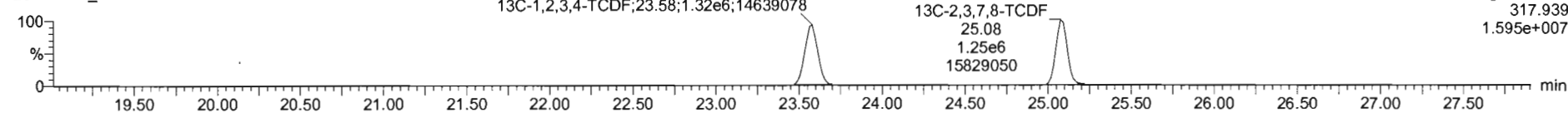


**13C-2,3,7,8-TCDF**

200429R2\_2

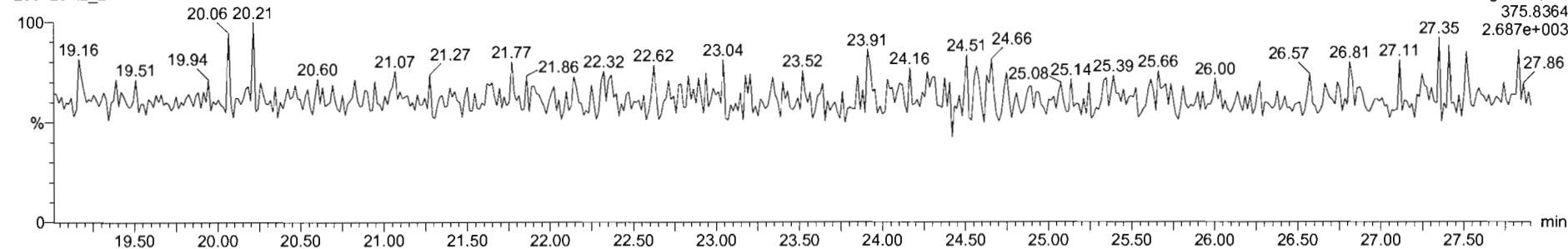


200429R2\_2

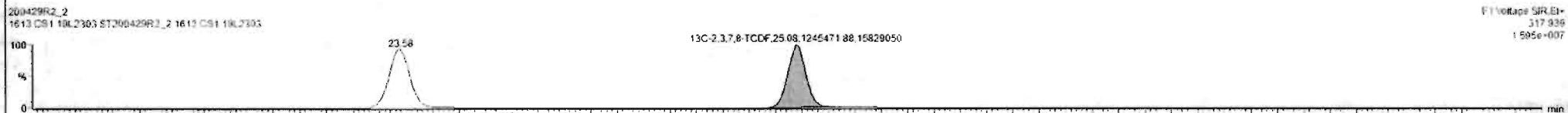
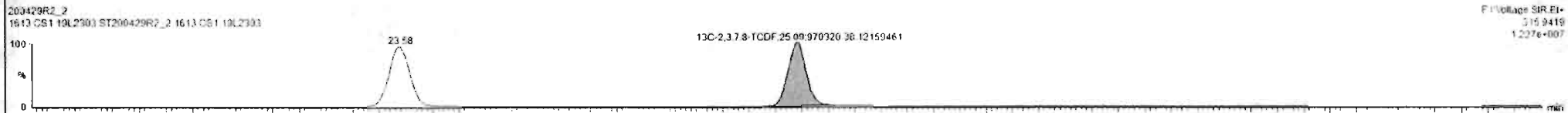
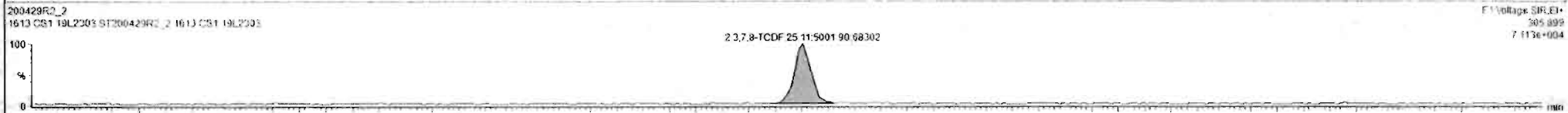
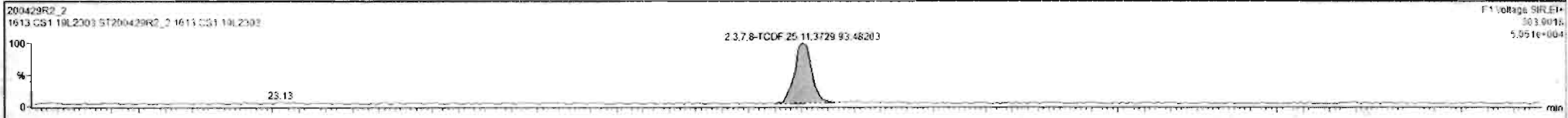


**DPE1**

200429R2\_2



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1 2,3,7,8-TCDD	25.05	0.731	NO	6.6615e3	1.4940e6	0.500	-2.6	5.35	0.947	0.0507
2	2 1,2,3,7,8-PeCDD	31.14	0.813	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	3 1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	4 1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.5006e5	2.500	-3.1	6.53	0.915	0.0597
5	5 1,2,3,7,8,9-HxCDD	34.98	1.205	NO	1.9808e4	8.4990e5	2.500	1.9	7.64	0.915	0.0699
6	6 1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.37	0.856	0.0632
7	7 OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.533	0.0707
8	8 2,3,7,8-TCDF	25.11	0.746	NO	8.7518e3	2.2158e6	0.500	0.1	5.11	0.787	0.0462
9	9 1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6554e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	10 2,3,4,7,8-PeCDF	30.82	1.628	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	11 1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.19	0.878	0.0666
12	12 1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1622e6	2.500	-1.4	7.23	0.874	0.0632
13	13 2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	14 1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	15 1,2,3,4,6,7,8-HpCDF	38.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	16 1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	17 OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



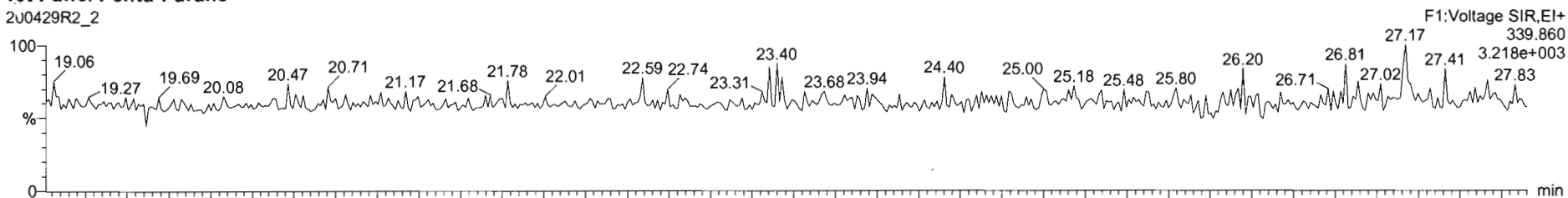
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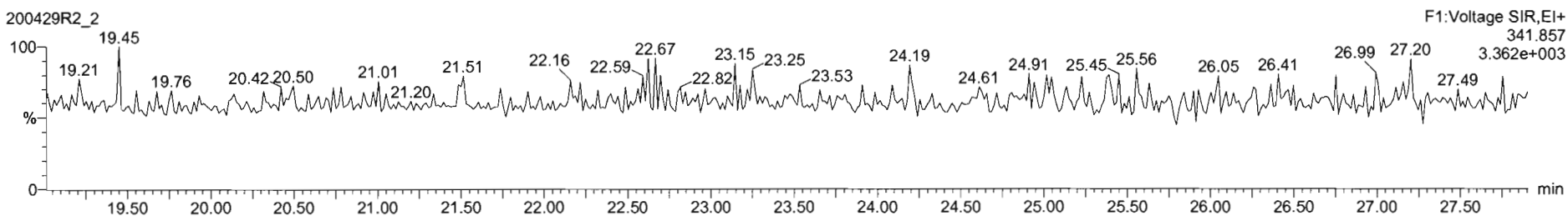
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1st Func. Penta-Furans

2U0429R2\_2

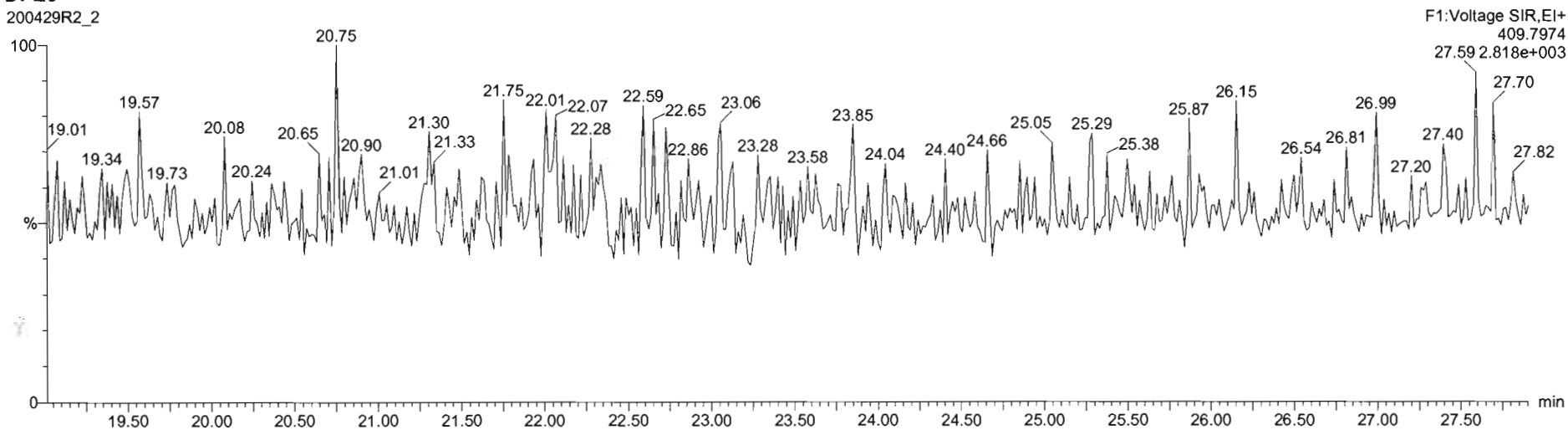


200429R2\_2



DPE6

200429R2\_2



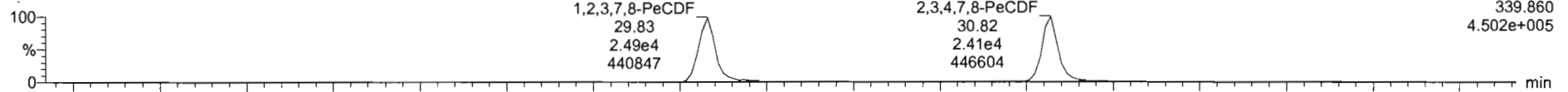
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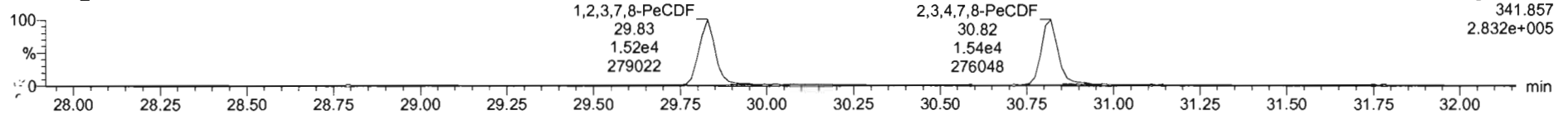
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**1,2,3,7,8-PeCDF**

200429R2\_2

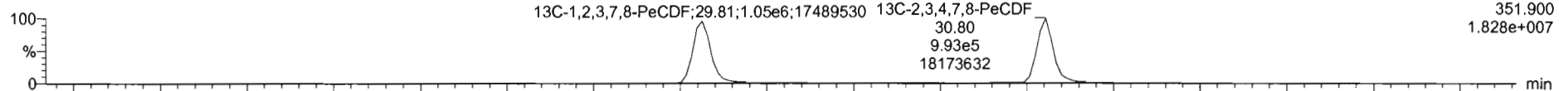


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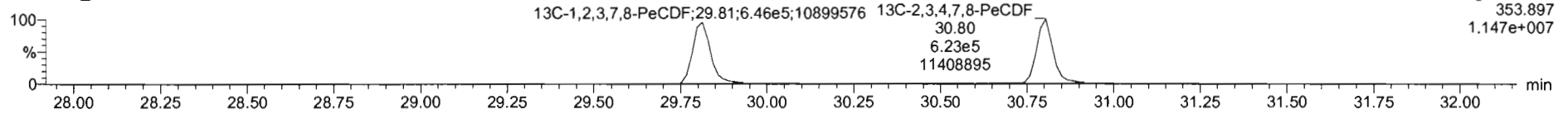


**13C-1,2,3,7,8-PeCDF**

200429R2\_2

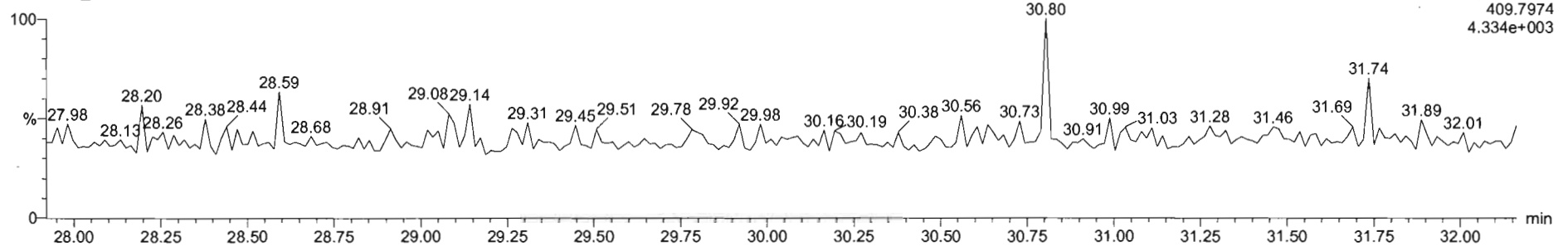


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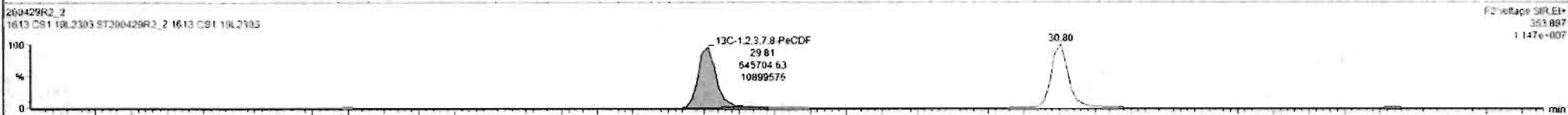
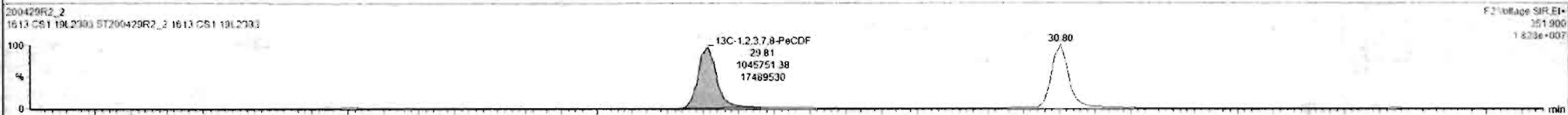
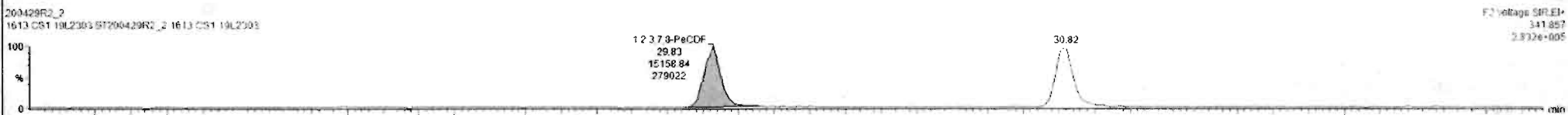


**DPE2**

200429R2\_2

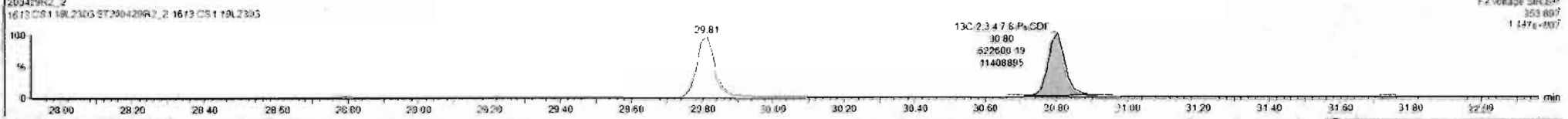
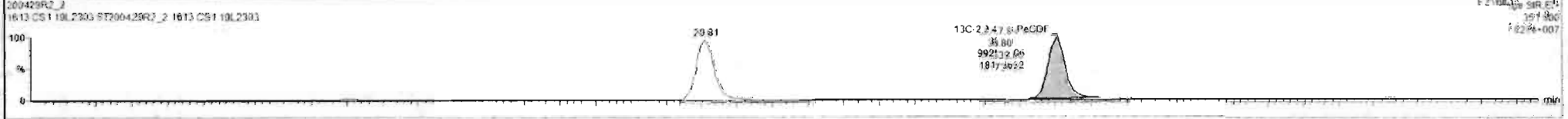
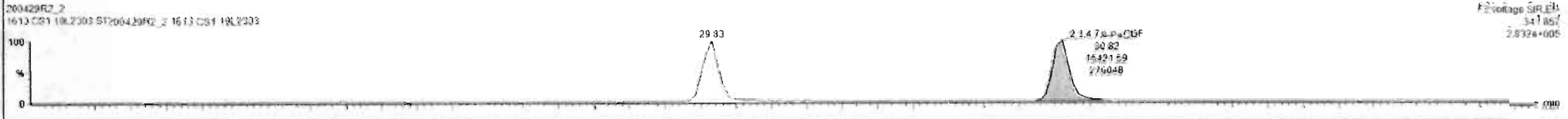
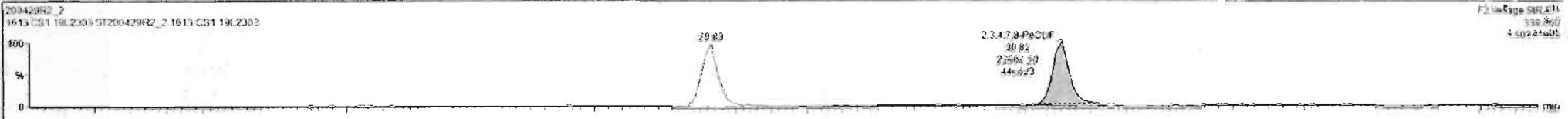


#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	28.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.6	5.37	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,7,8,9-HxCDD	34.80	1.187	NO	2.1810e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDF	34.88	1.295	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.856	0.0620
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,6,7,8-PeCDF	25.11	0.748	NO	8.7310e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6534e4	1.6815e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.328	NO	3.8066e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	32.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.183	NO	2.5827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	6.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.653	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



Custom Reporting: Select reports to generate

#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.6015e3	1.4940e5	0.500	-2.9	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.6247e5	2.500	0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.167	NO	2.1618e4	9.9500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.295	NO	1.9008e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.1	6.93	0.856	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2156e5	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6234e4	1.8915e5	2.500	0.1	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8009e4	1.8151e5	2.500	-0.1	4.86	0.960	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8511e4	8.7735e5	2.500	-1.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7326e4	7.5418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1591e4	4.9236e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575

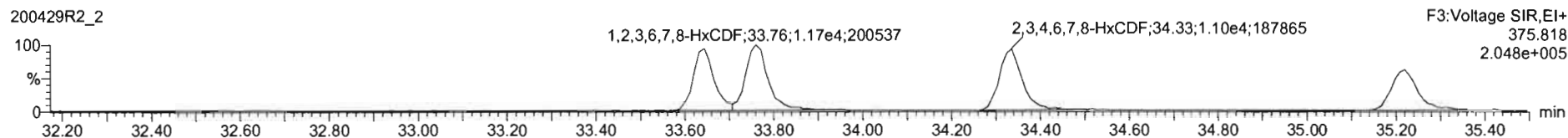
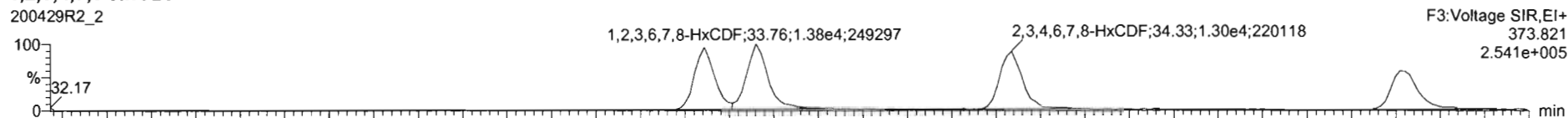


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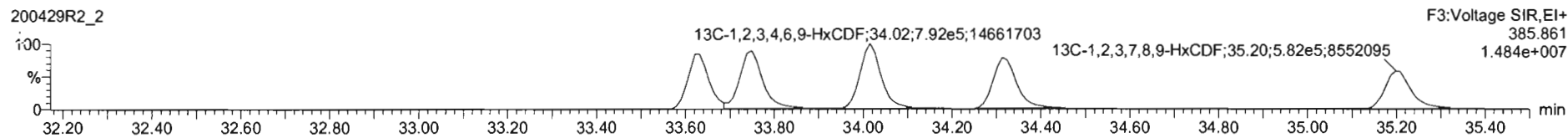
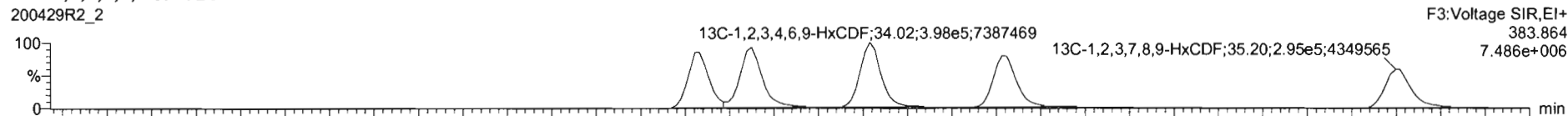
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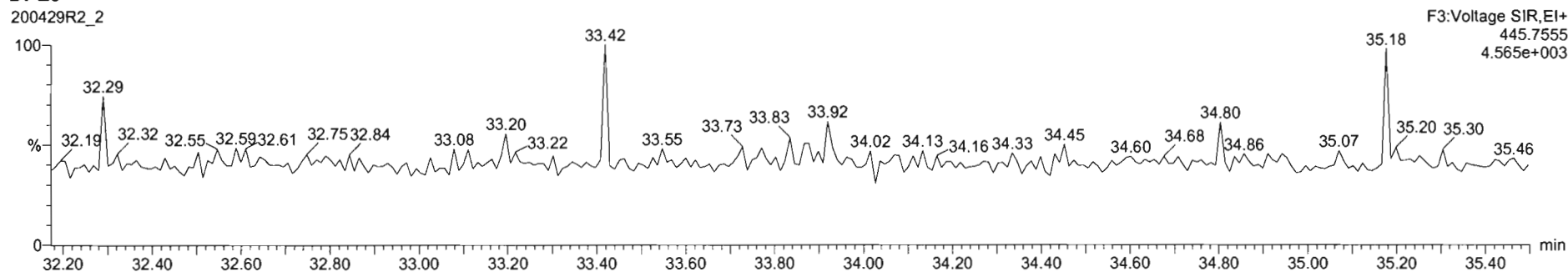
**1,2,3,4,7,8-HxCDF**



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

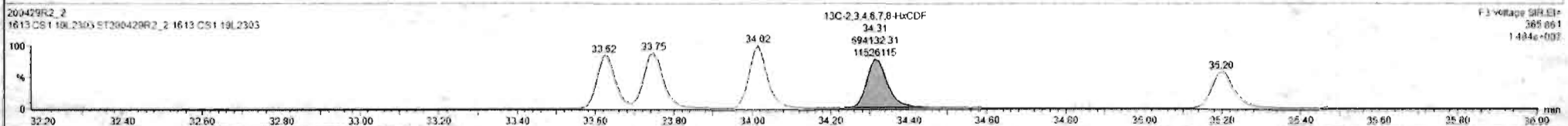
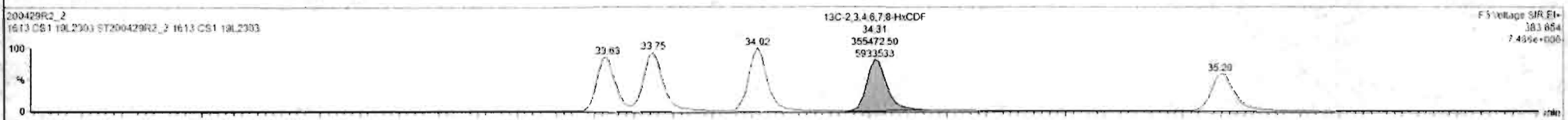


**DPE3**

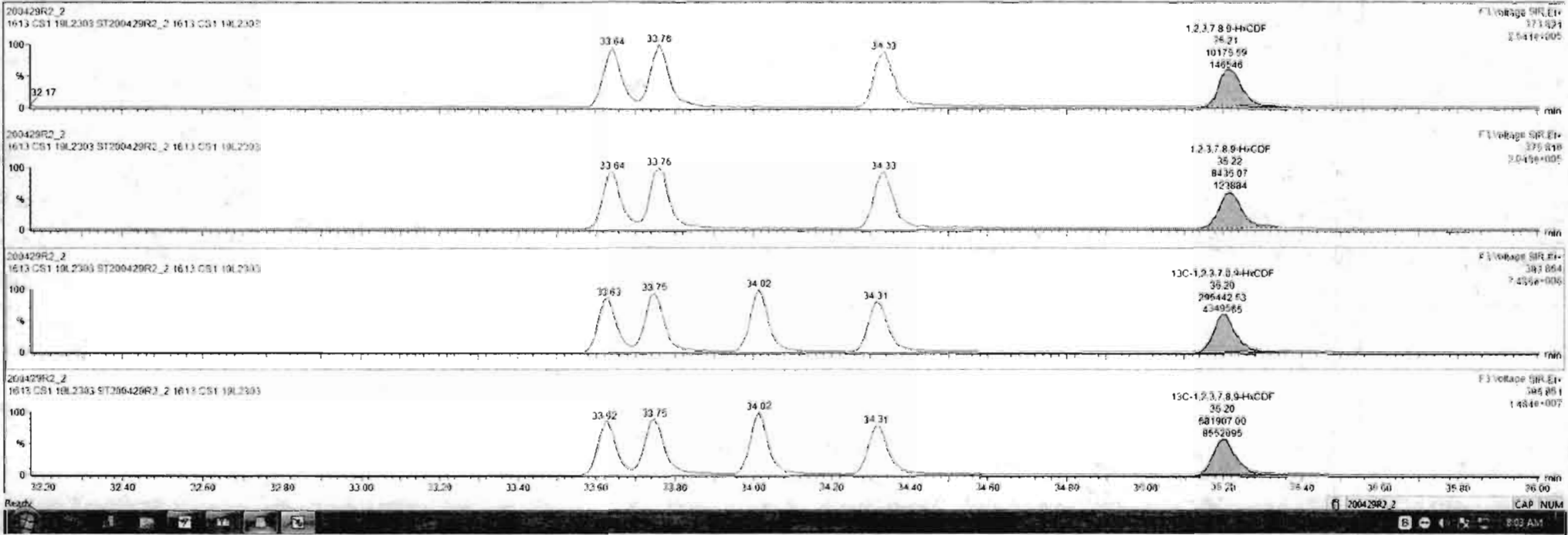




#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8000e5	2.500	-2.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.80	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0698
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.858	0.0622
7	OCDF	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	6.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0403
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6934e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2810e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0490e6	2.500	-1.5	7.69	0.822	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.9611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4540e6	0.500	-2.0	6.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.9454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.00	1.157	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.205	NO	1.9608e4	3.4560e5	2.500	1.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.896	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.0	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.740	NO	8.7310e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8534e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	29.82	1.528	NO	3.8666e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.0	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1032e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8071e4	8.7735e5	2.500	-1.0	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1991e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



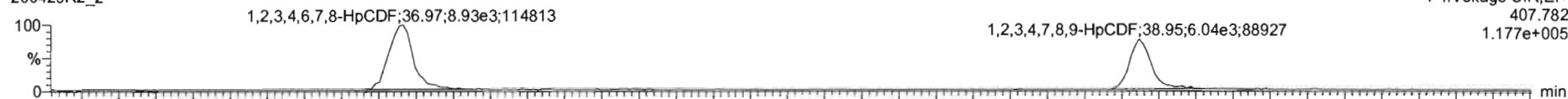
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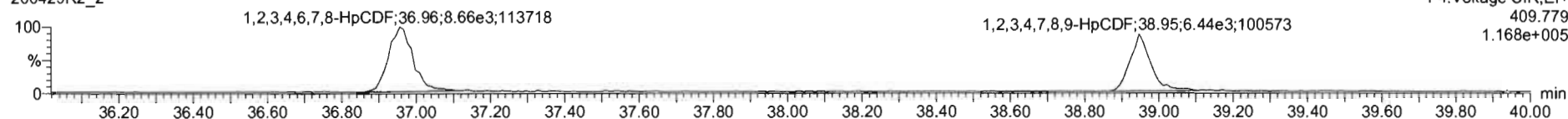
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_2

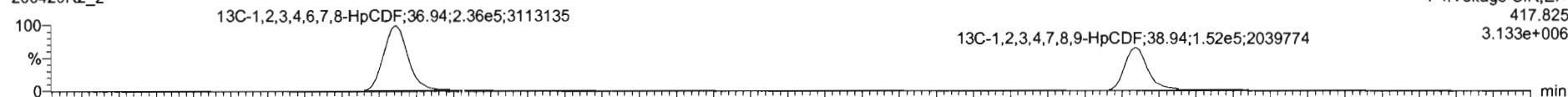


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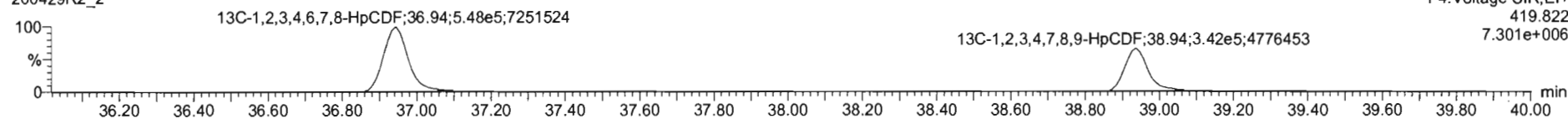


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200429R2\_2

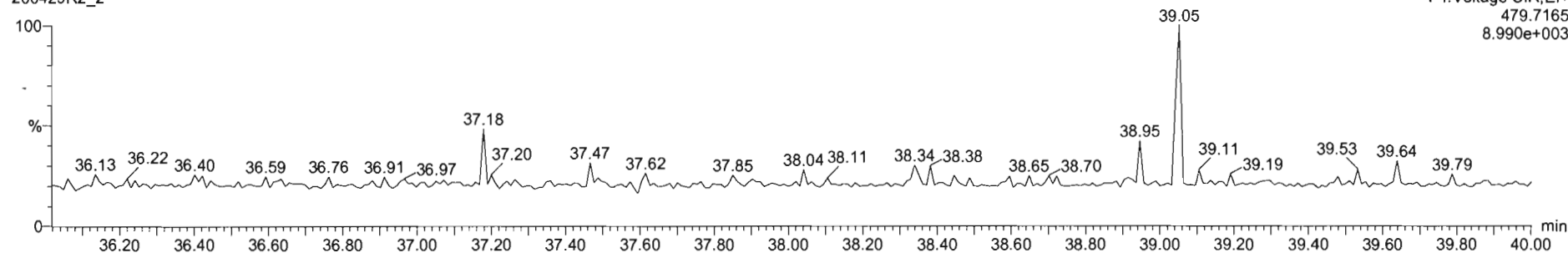


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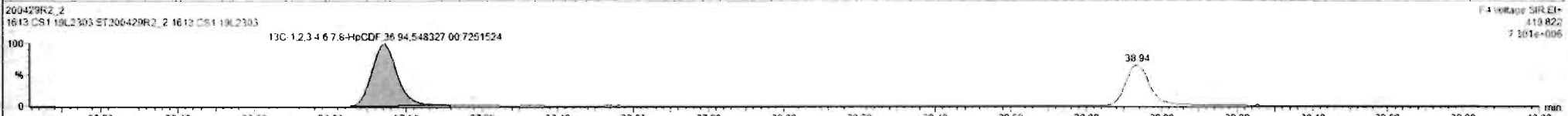
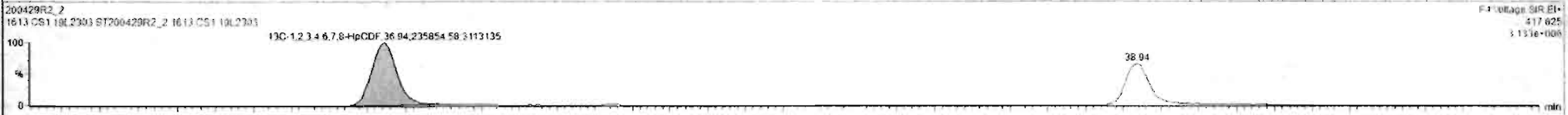
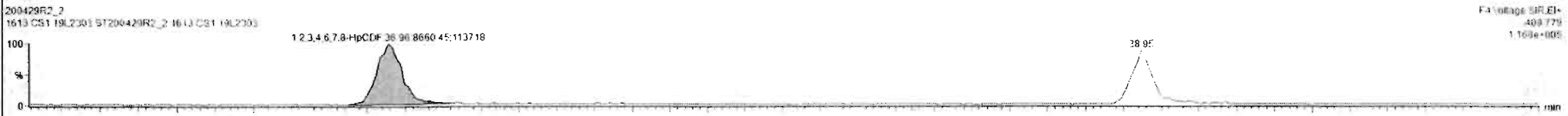


**DPE4**

200429R2\_2



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	MRSD	RRF M	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.8454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.157	NO	2.1618e4	9.8600e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.92	1.205	NO	1.5608e4	8.4960e5	2.500	1.6	7.64	0.915	0.0698
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.2	6.93	0.858	0.0622
7	OCDD	41.35	0.954	NO	2.7910e4	1.2052e6	0.000	-0.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.0734e4	1.0915e6	2.500	0.1	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.628	NO	3.8686e4	1.6151e6	2.500	-0.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5479e4	1.1822e6	2.500	-1.4	7.21	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.022	NO	1.7138e4	7.8412e5	2.500	1.5	7.54	0.871	0.0552
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1591e4	4.9230e5	2.500	3.7	6.82	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	0.060	-2.4	7.16	0.862	0.0575



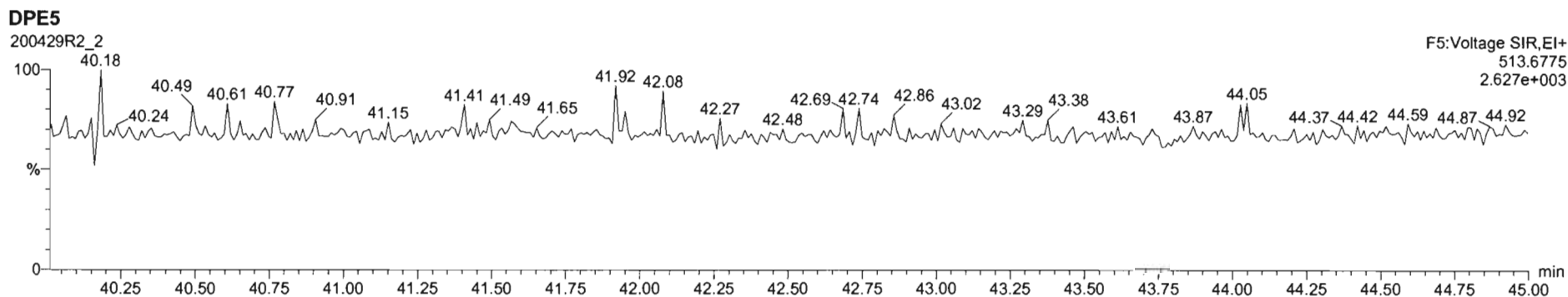
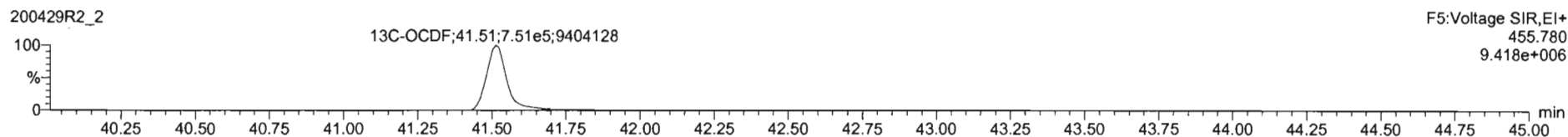
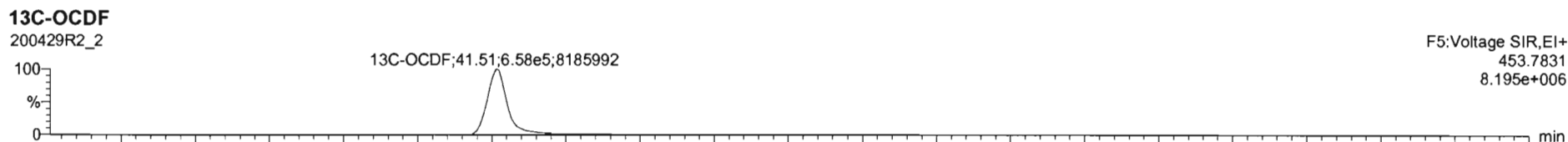
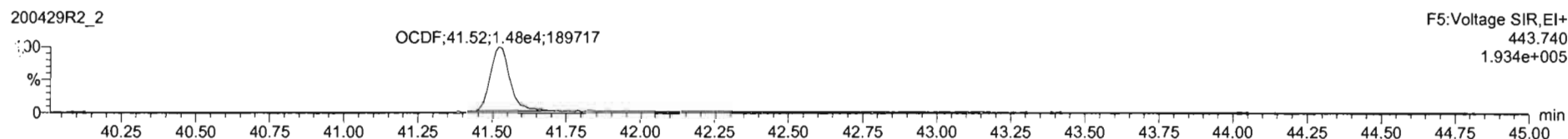
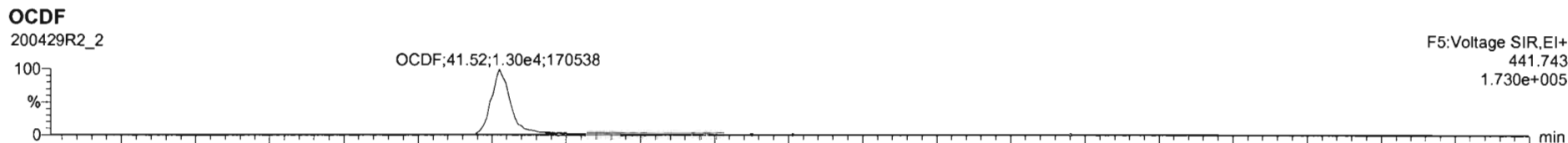
#	Name	RT	RA	yth	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.731	NO	6.8615e3	1.4940e6	0.500	-2.8	5.35	0.947	0.0107
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.89	1.187	NO	2.1818e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.295	NO	1.9688e4	3.4960e5	2.500	1.6	7.84	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.93	0.658	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	29.11	0.748	NO	8.7318e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.43	1.542	NO	3.6534e4	1.6915e6	2.500	0.1	5.62	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8986e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2818e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0617
16	1,2,3,4,7,8,9-HpCDF	38.95	0.984	NO	1.1991e4	4.9238e5	2.500	-3.7	6.82	1.01	0.0679
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



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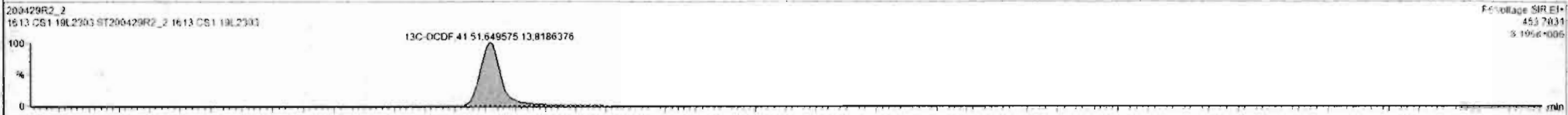
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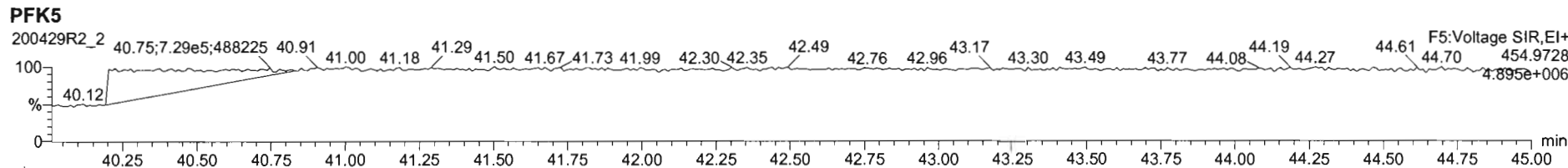
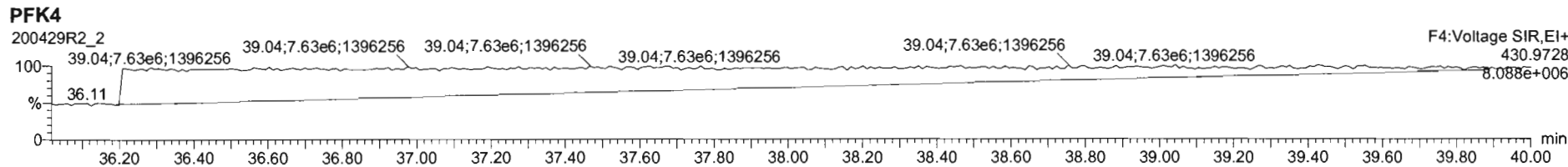
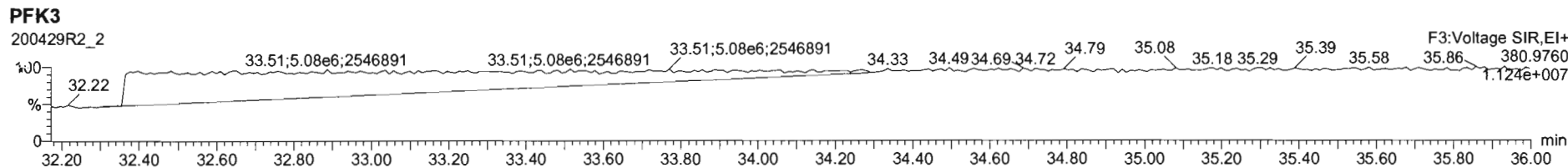
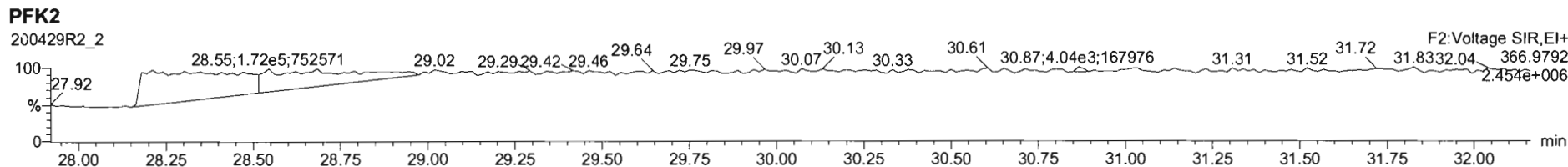
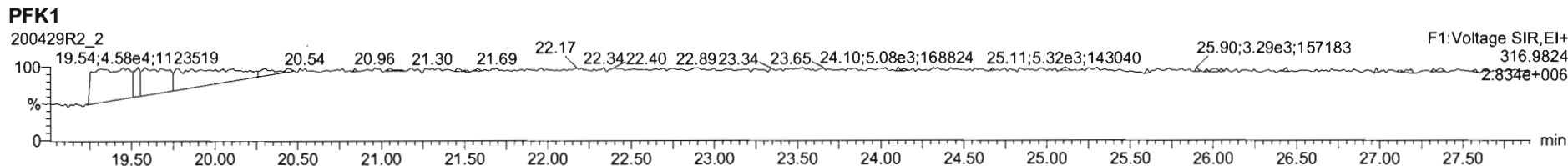
#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.197	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.696	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.633	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7310e3	2.2156e6	0.500	0.1	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8754e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.82	1.528	NO	3.8996e4	1.6151e6	2.500	-0.1	4.95	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.197	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8611e4	8.7735e5	2.500	-1.6	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.55	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.883	NO	2.7424e4	1.4010e6	5.000	-2.4	7.18	0.802	0.0573



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

Name: 200429R2\_2, Date: 29-Apr-2020, Time: 14:15:04, ID: ST200429R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303





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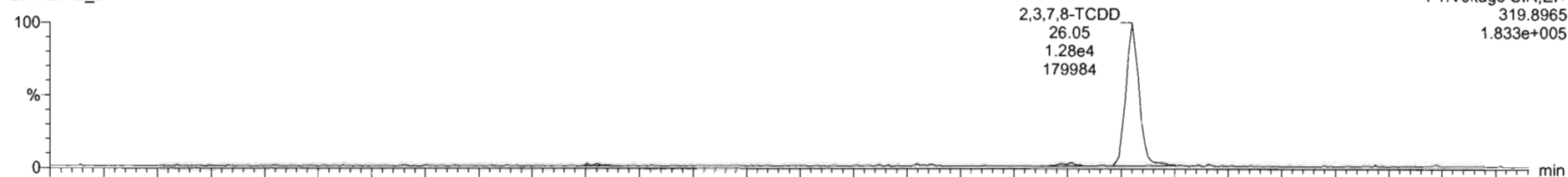
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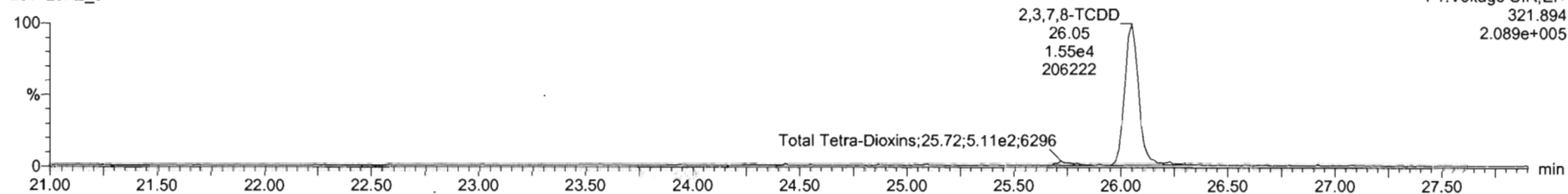
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**2,3,7,8-TCDD**

200429R2\_3

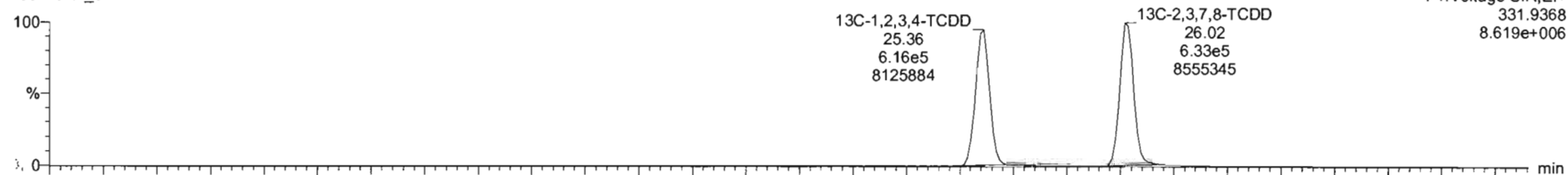


200429R2\_3

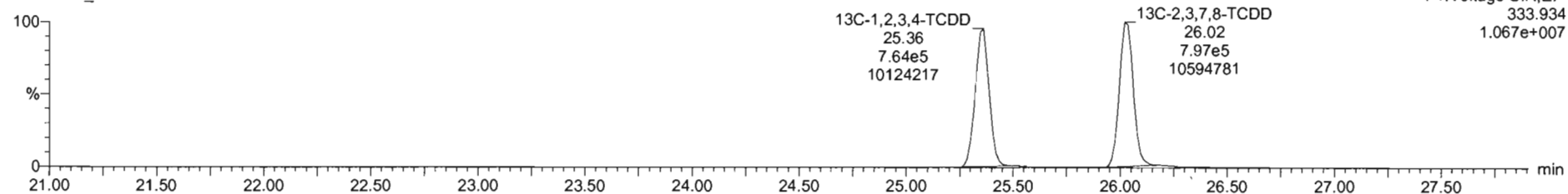


**13C-2,3,7,8-TCDD**

200429R2\_3

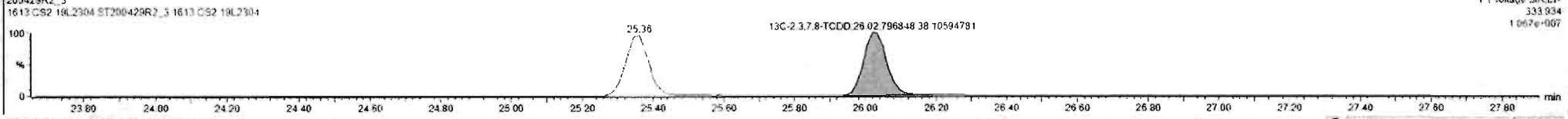
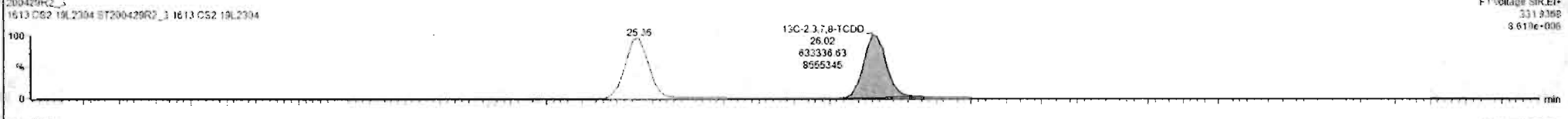
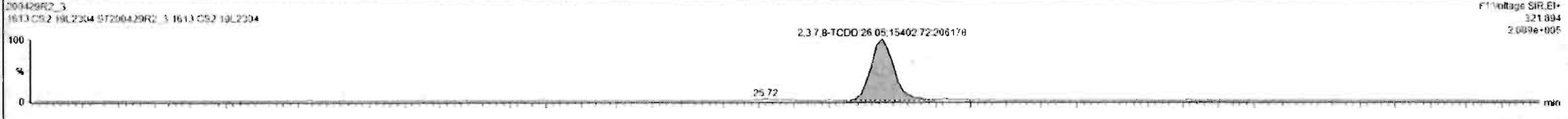
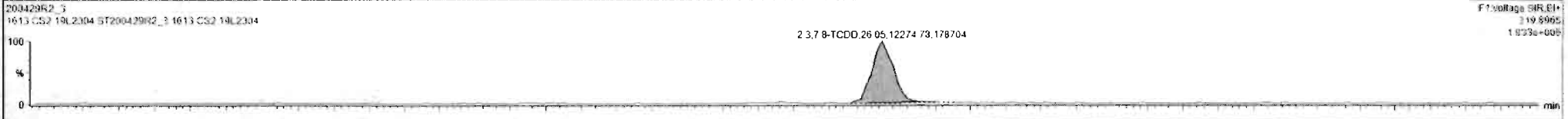


200429R2\_3



200429R2\_3 - ST200429R2\_3 1613 CS2 19L2304 1613 CS2 19L2304

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.900	2.1	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	21.13	0.621	NO	9.9612e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.49	1.246	NO	8.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	24.80	1.244	NO	8.1064e4	8.0356e5	10.000	6.3	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.36	1.081	NO	5.9094e4	6.3852e5	10.000	3.1	6.93	0.656	0.0632
7	OCDD	41.24	0.883	NO	1.0629e5	1.0963e6	20.000	5.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.8671e6	2.000	4.1	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.567	NO	1.5997e5	1.6425e6	10.000	7.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.6556e6	10.000	6.4	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.78	1.209	NO	1.0898e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0301e6	10.000	7.1	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7026e4	8.5676e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.95	0.958	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.9417e4	4.7128e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.802	0.0575



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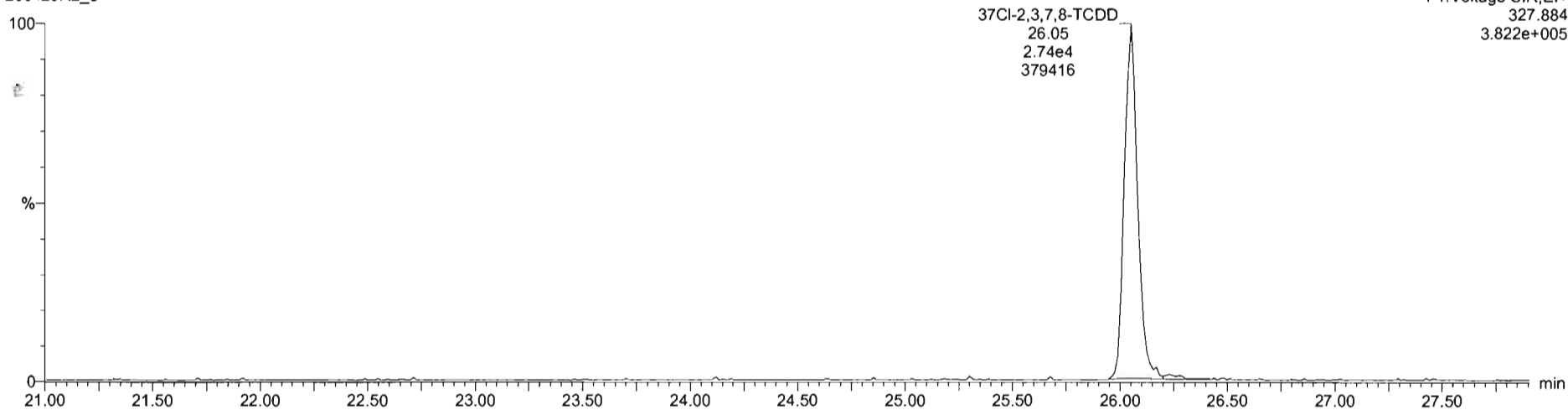
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

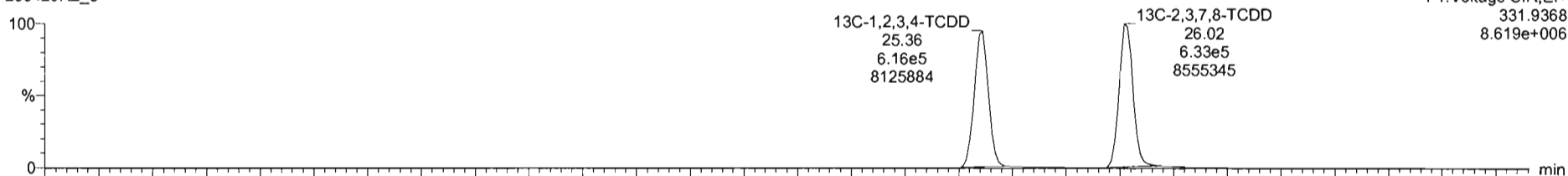
**37Cl-2,3,7,8-TCDD**

200429R2\_3

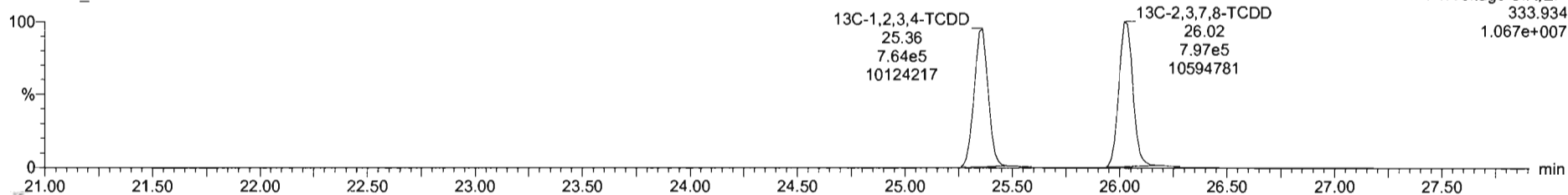


**13C-1,2,3,4-TCDD**

200429R2\_3



200429R2\_3



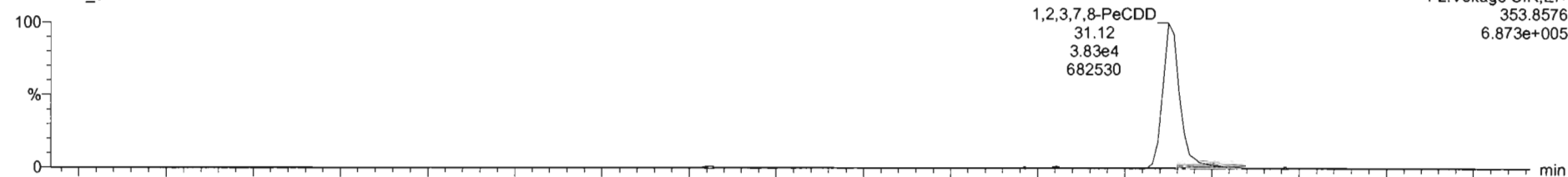
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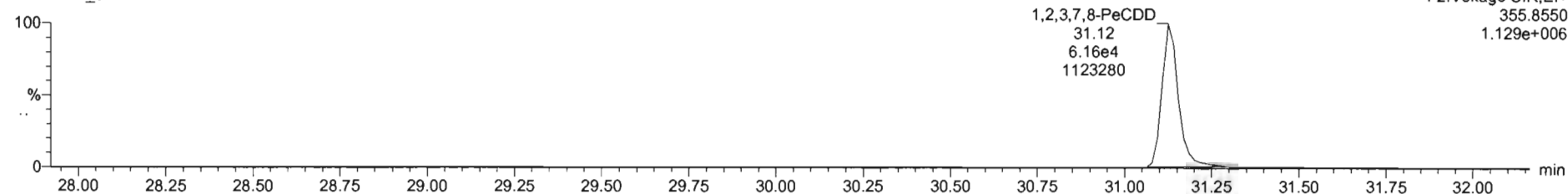
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**1,2,3,7,8-PeCDD**

200429R2\_3

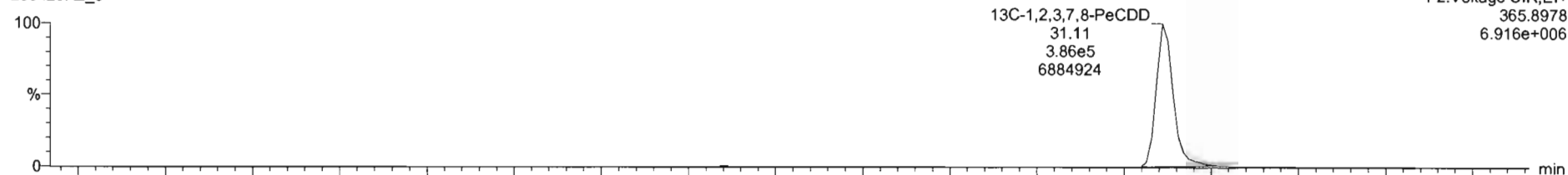


200429R2\_3

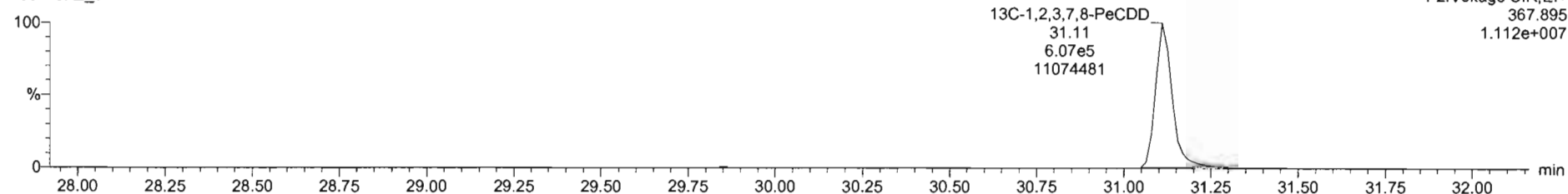


**13C-1,2,3,7,8-PeCDD**

200429R2\_3



200429R2\_3



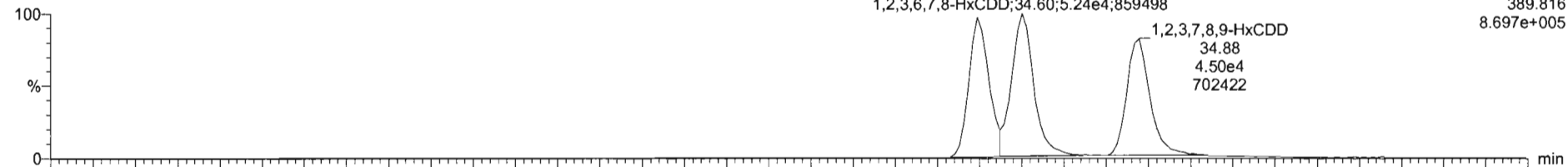
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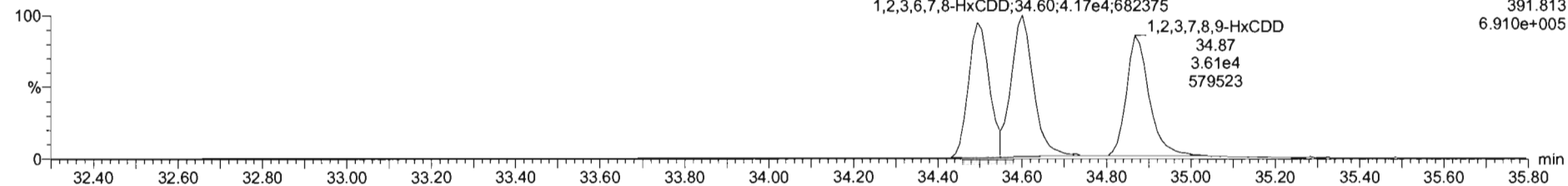
Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200429R2\_3

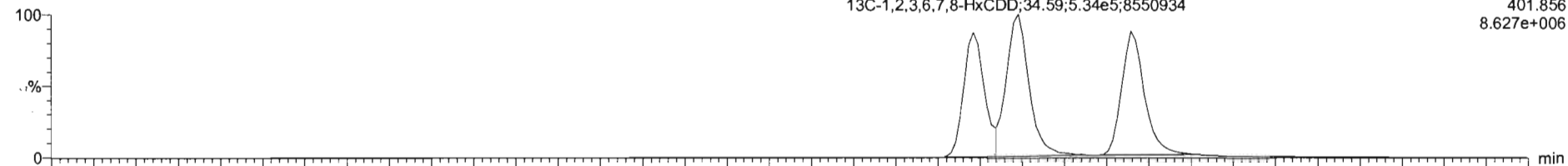


200429R2\_3

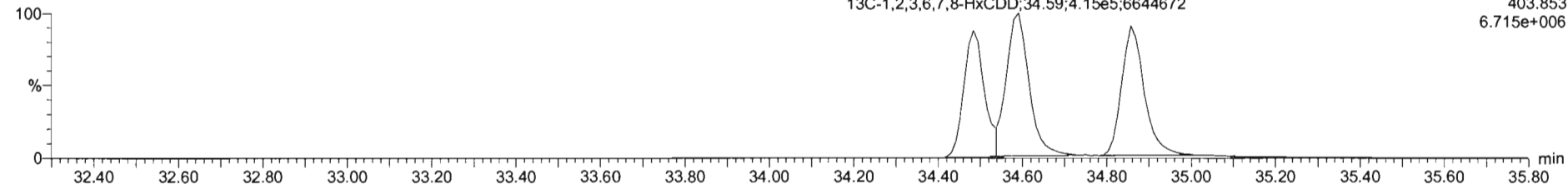


**13C-1,2,3,4,7,8-HxCDD**

200429R2\_3



200429R2\_3



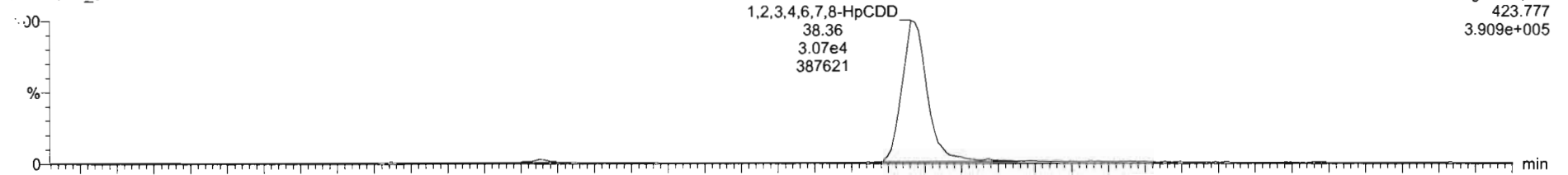
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

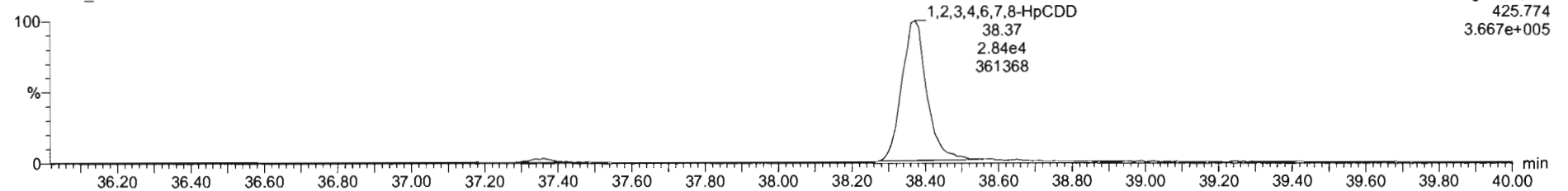
**1,2,3,4,6,7,8-HpCDD**

200429R2\_3



F4:Voltage SIR,EI+  
423.777  
3.909e+005

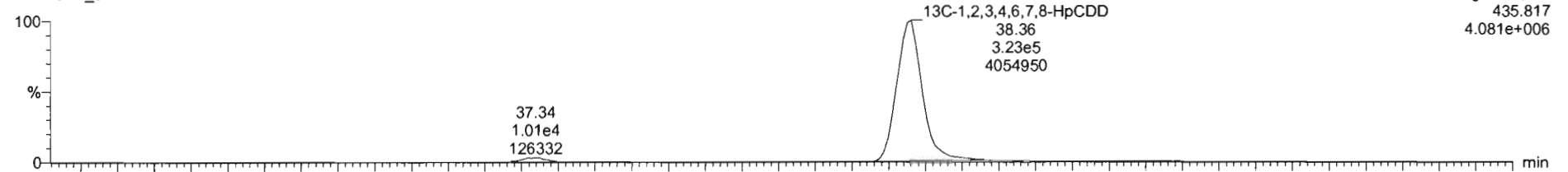
200429R2\_3



F4:Voltage SIR,EI+  
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3.667e+005

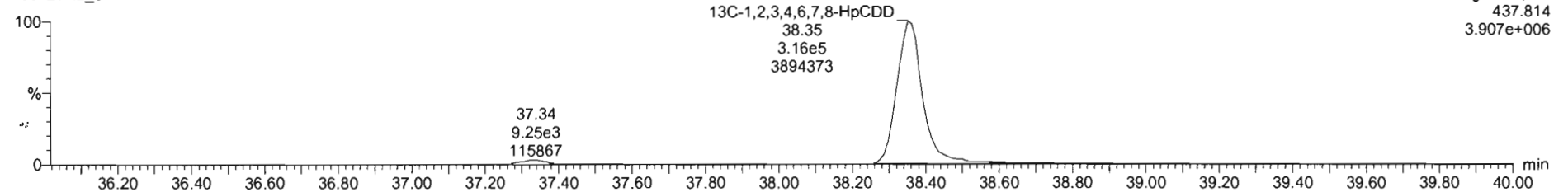
**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_3



F4:Voltage SIR,EI+  
435.817  
4.081e+006

200429R2\_3

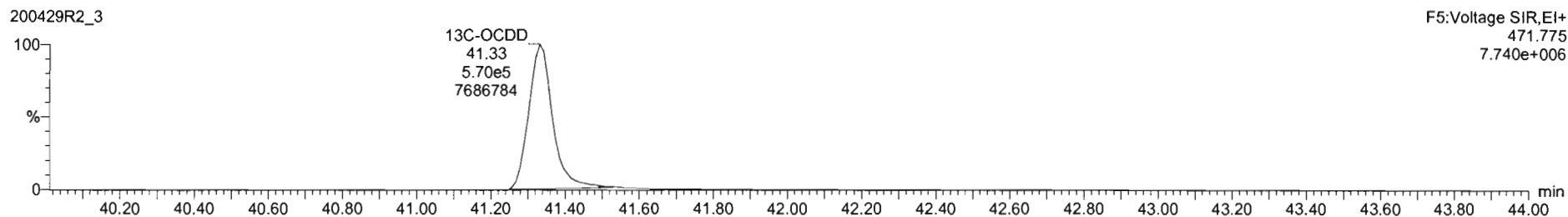
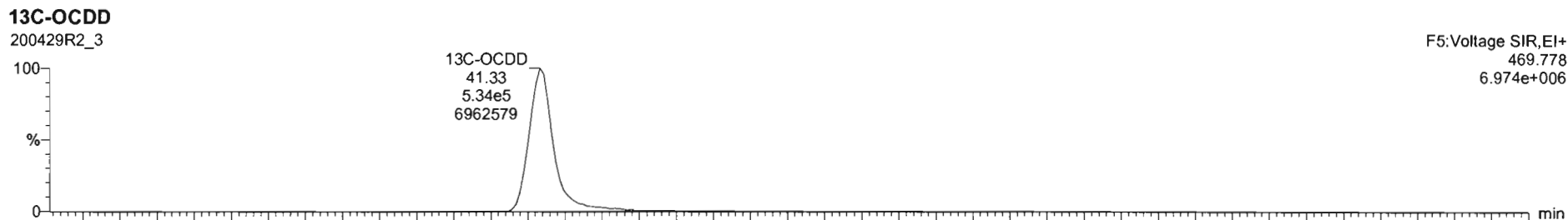
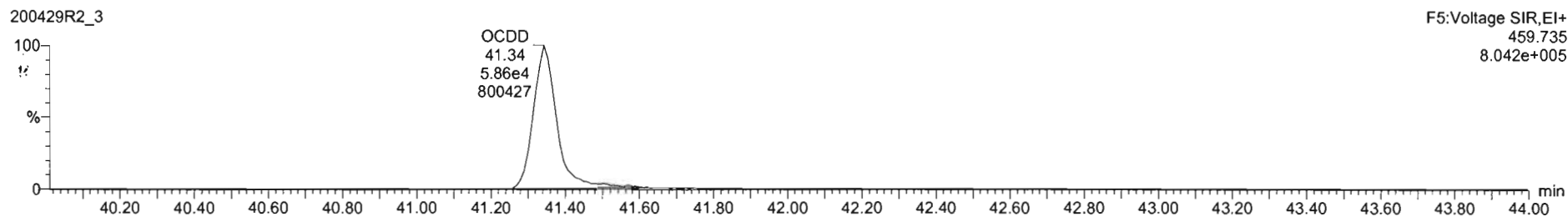
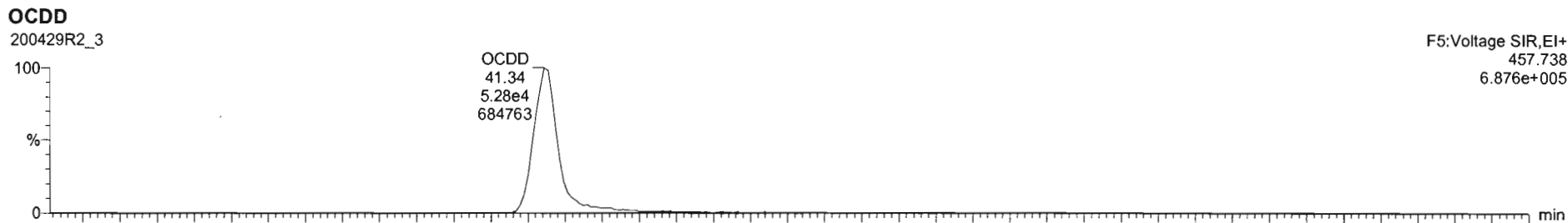


F4:Voltage SIR,EI+  
437.814  
3.907e+006

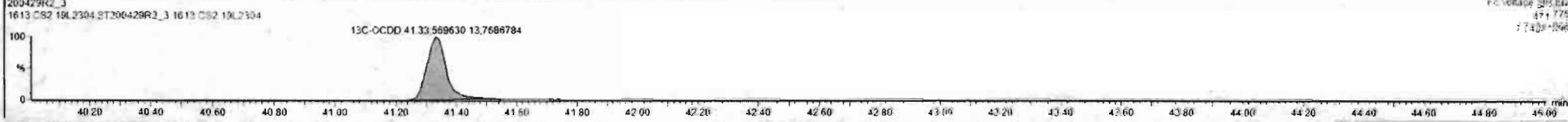
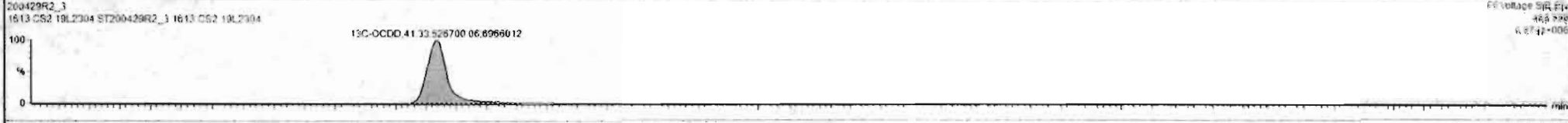
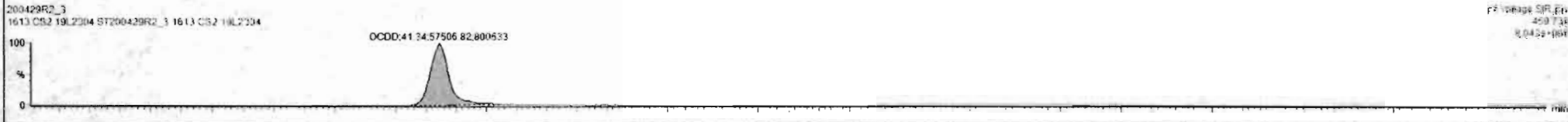
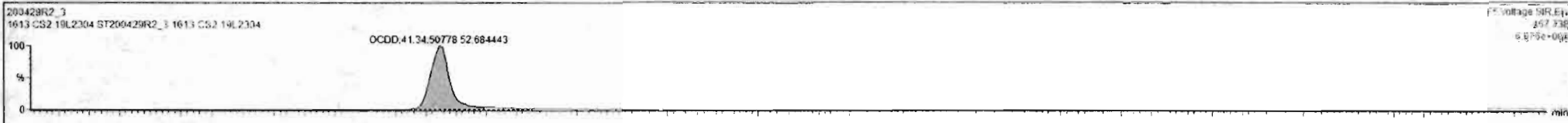
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#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.000	2.1	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9912e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.246	NO	3.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.244	NO	8.1084e4	8.2359e5	10.000	6.3	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	38.36	1.001	NO	5.3094e4	6.3852e5	10.000	3.1	6.93	0.856	0.0622
7	OCDD	41.34	0.863	NO	1.0629e5	1.9963e6	20.000	8.6	7.57	0.830	0.0767
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.0671e6	2.000	4.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.067	NO	1.5997e5	1.6425e6	10.000	7.0	5.06	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.5656e6	10.000	6.4	4.98	0.906	0.0481
11	1,2,3,4,7,8-HxCDF	32.83	1.217	NO	9.1102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.200	NO	1.0896e5	1.1366e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0201e6	10.000	7.1	7.69	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5276e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.90	0.950	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.8417e4	4.7188e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.0707e5	1.2711e6	20.000	5.0	7.16	0.862	0.0575





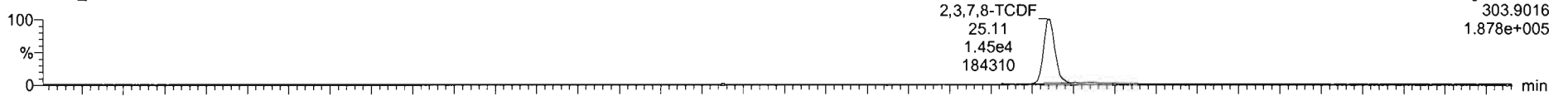
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

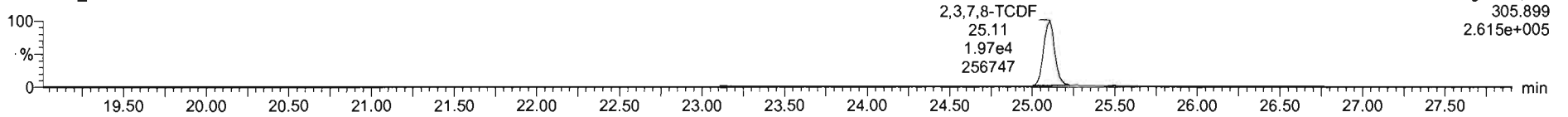
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**2,3,7,8-TCDF**

200429R2\_3

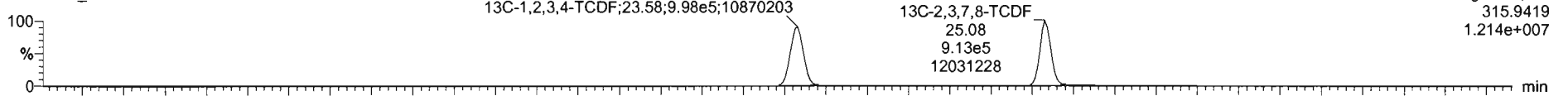


200429R2\_3

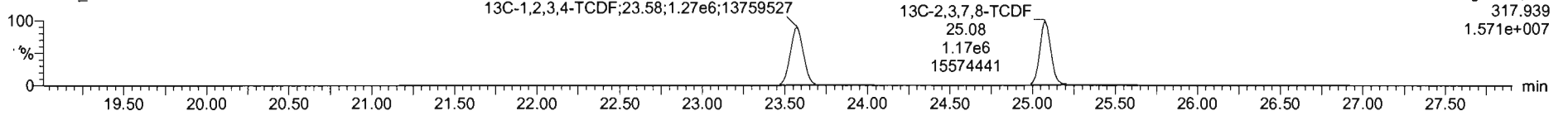


**13C-2,3,7,8-TCDF**

200429R2\_3

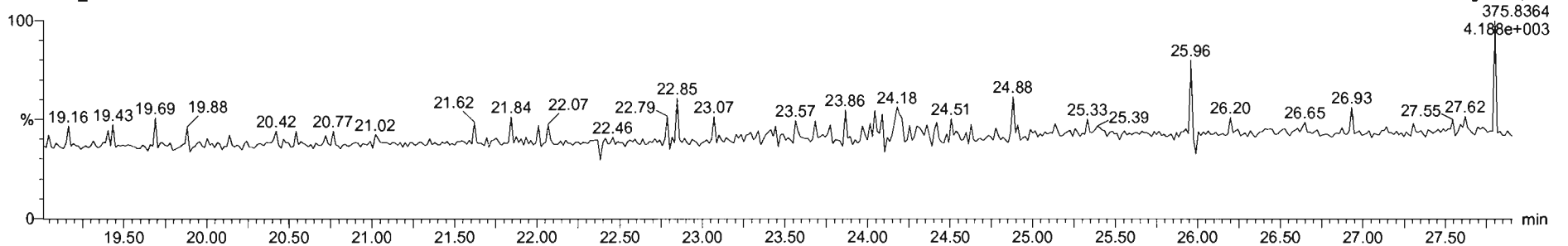


200429R2\_3



**DPE1**

200429R2\_3



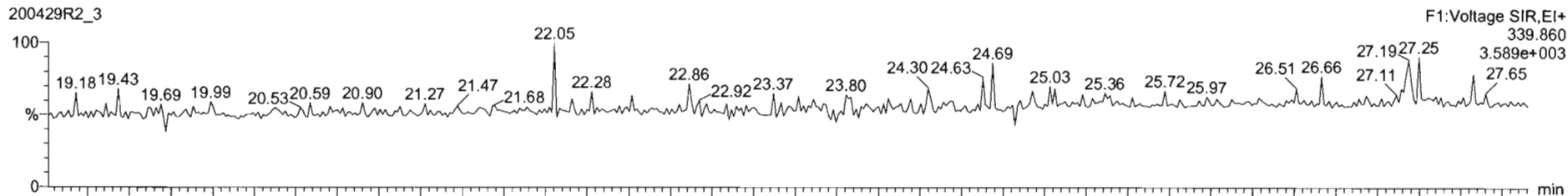
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

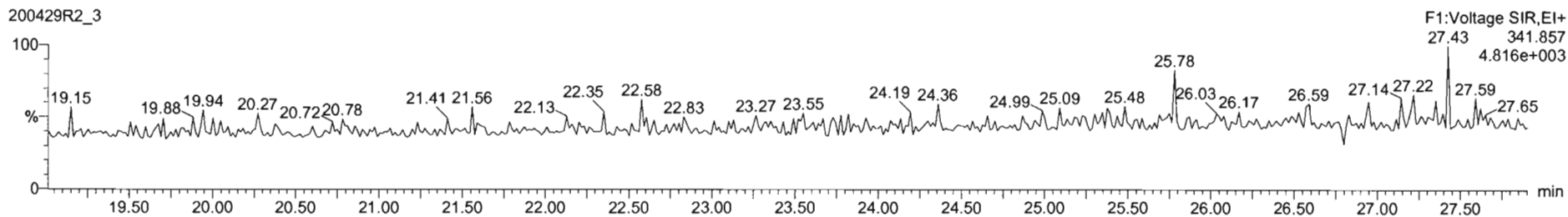
Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans

200429R2\_3

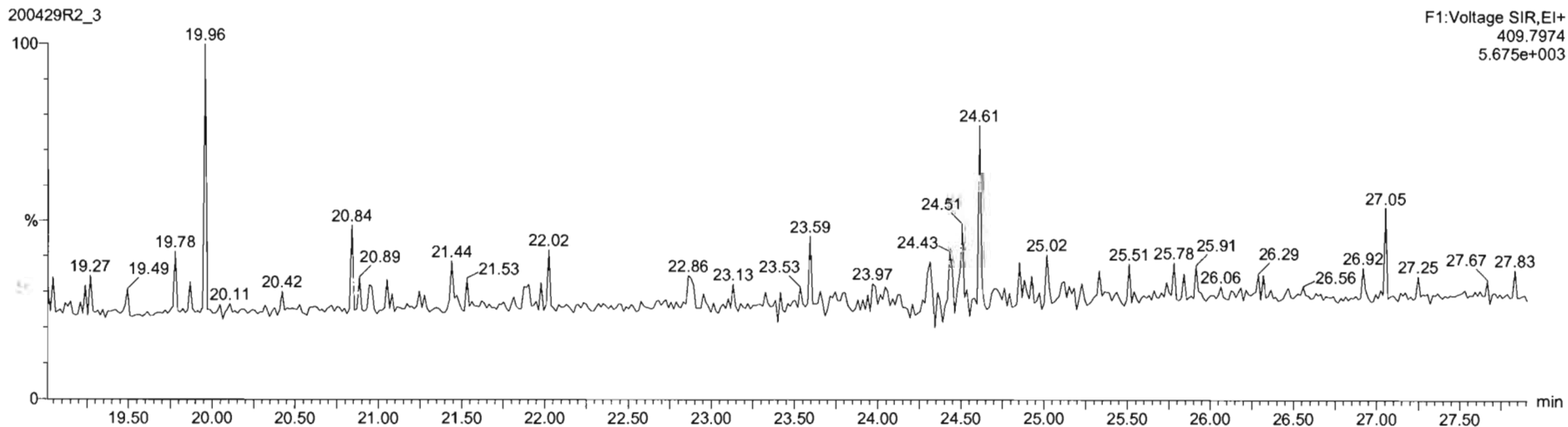


200429R2\_3



DPE6

200429R2\_3



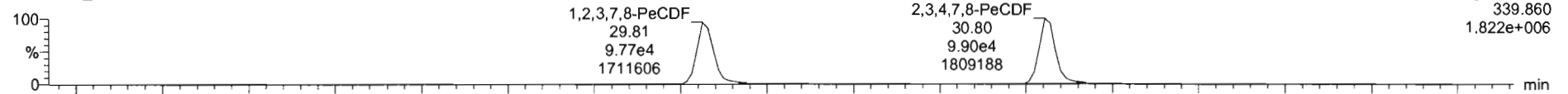
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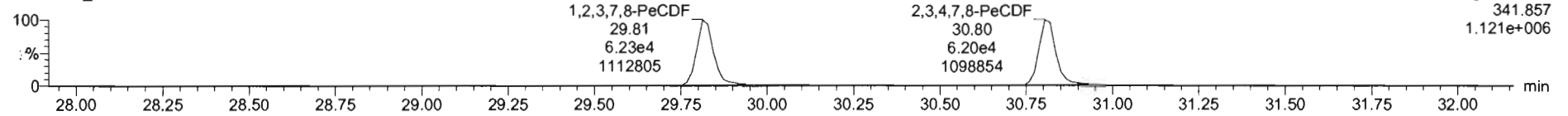
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**1,2,3,7,8-PeCDF**

200429R2\_3

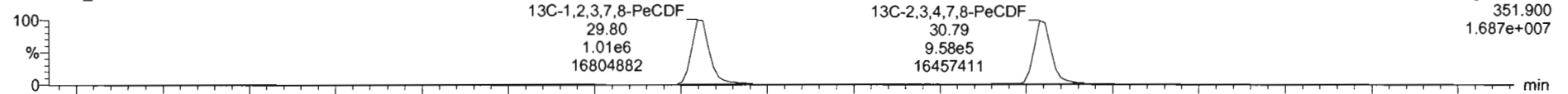


200429R2\_3

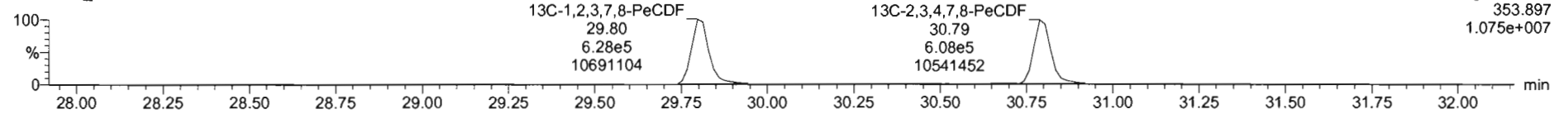


**13C-1,2,3,7,8-PeCDF**

200429R2\_3

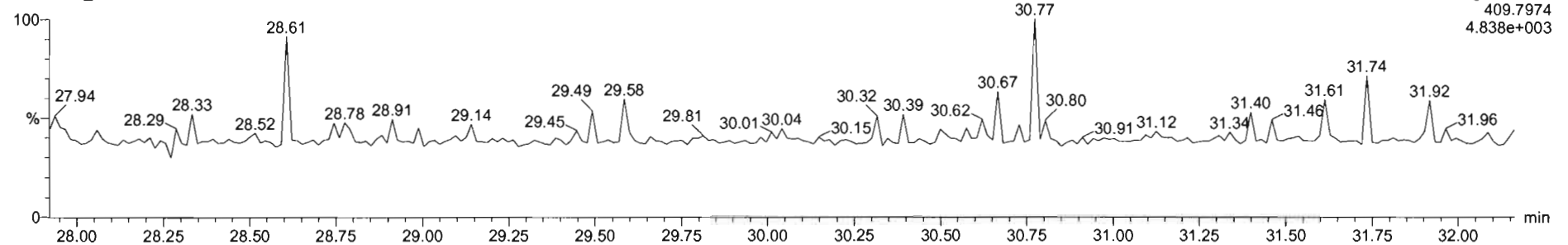


200429R2\_3



**DPE2**

200429R2\_3



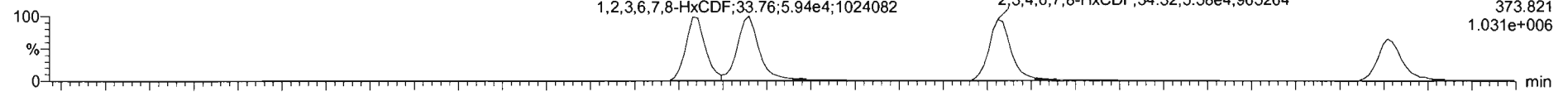
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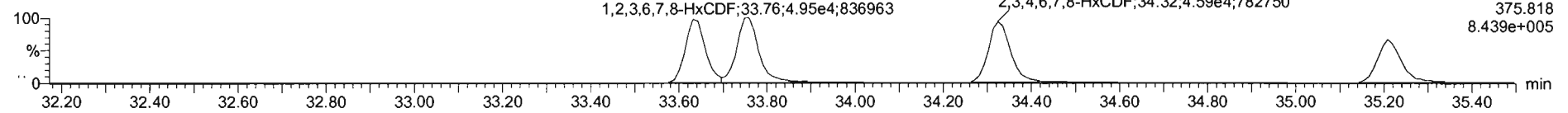
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**1,2,3,4,7,8-HxCDF**

200429R2\_3

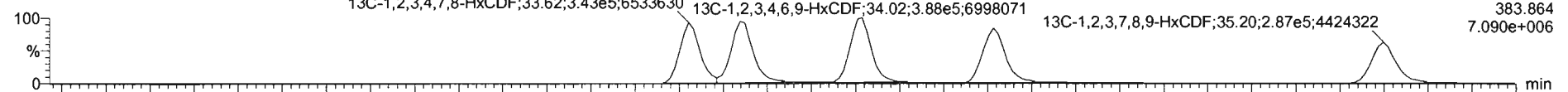


200429R2\_3

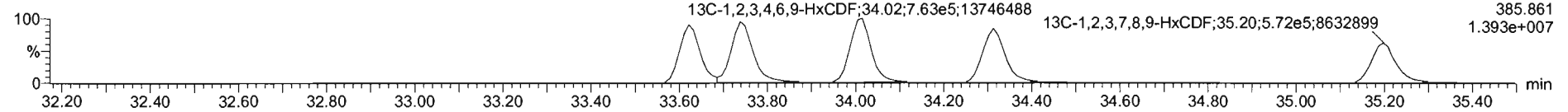


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_3

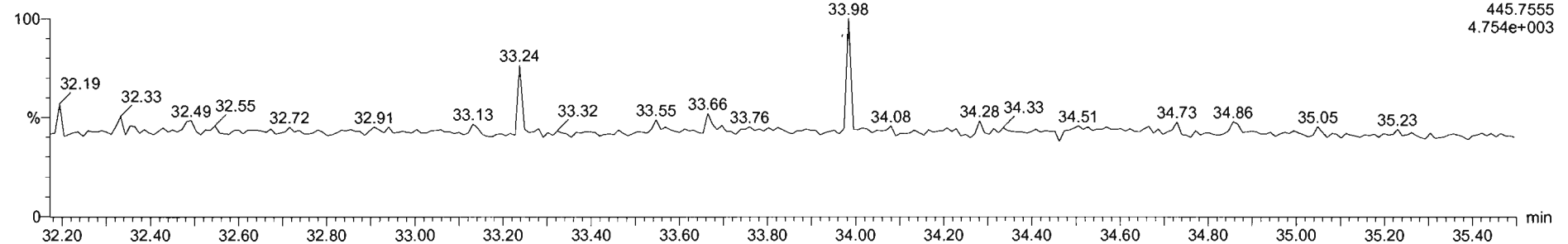


200429R2\_3



**DPE3**

200429R2\_3



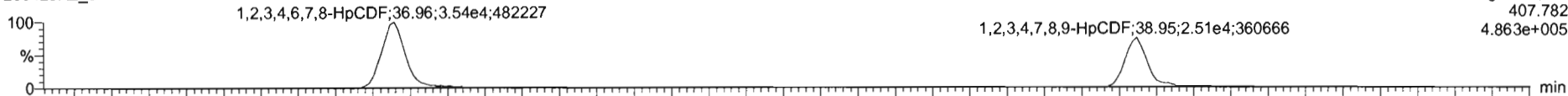
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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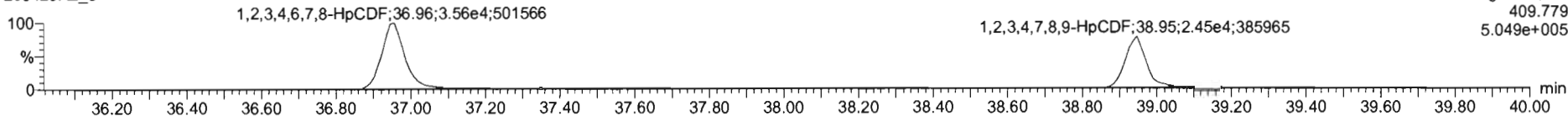
**1,2,3,4,6,7,8-HpCDF**

200429R2\_3



F4:Voltage SIR,EI+  
407.782  
4.863e+005

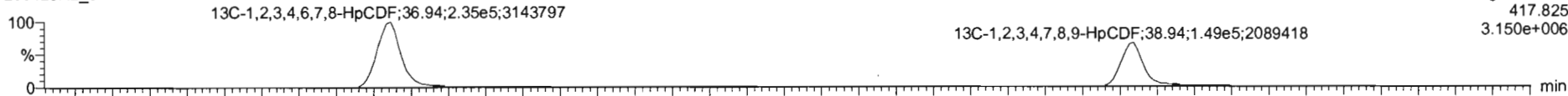
200429R2\_3



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5.049e+005

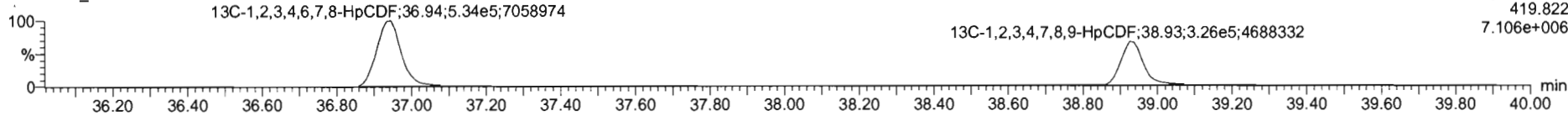
**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_3



F4:Voltage SIR,EI+  
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3.150e+006

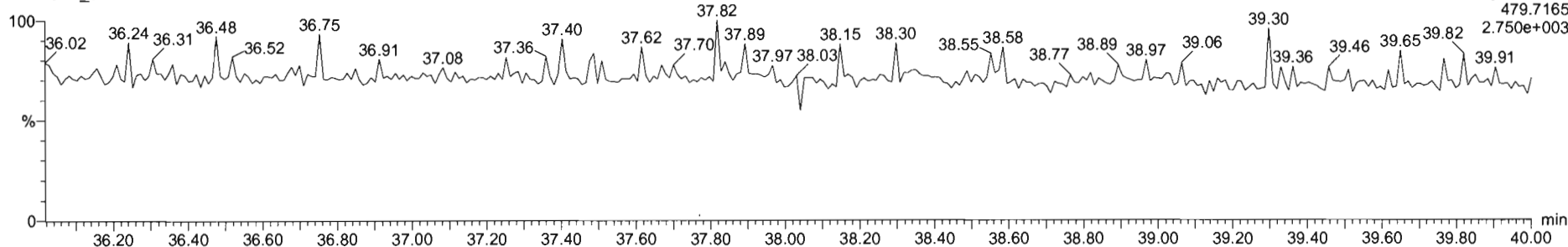
200429R2\_3



F4:Voltage SIR,EI+  
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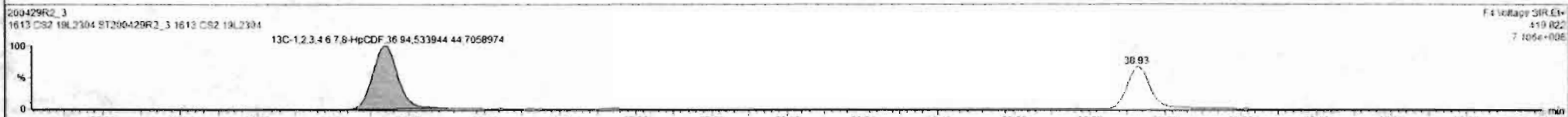
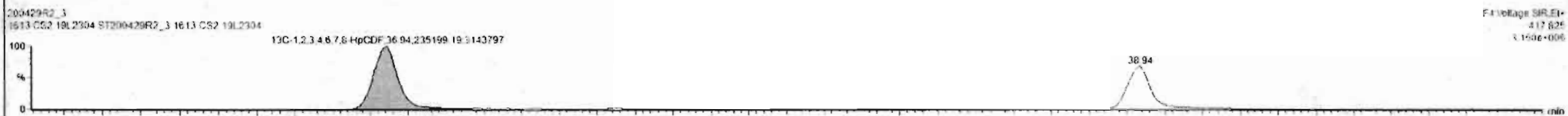
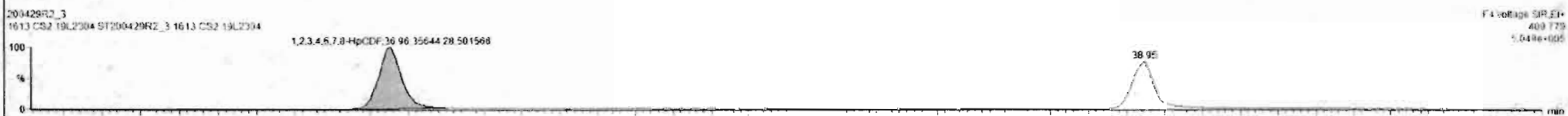
**DPE4**

200429R2\_3



F4:Voltage SIR,EI+  
479.7165  
2.750e+003

#	1	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF N	RRF SD
1	1	1,2,3,7,8-TCDD	26.95	0.757	NO	2.7677e4	1.4302e6	2.000	2.1	5.35	0.947	0.0507
2	2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9612e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.49	1.248	NO	3.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0794
4	4	1,2,3,6,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	5	1,2,3,7,8,9-HxCDD	34.82	1.244	NO	8.1084e4	8.3359e5	10.000	6.3	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	38.36	1.051	NO	5.9094e4	6.3652e5	10.000	3.1	6.93	0.856	0.0622
7	7	OCDD	41.34	0.853	NO	1.0629e5	1.0963e6	20.000	5.8	7.57	0.933	0.0707
8	8	1,2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.0671e6	2.000	4.1	5.11	0.767	0.0402
9	9	1,2,3,7,8-PeCDF	29.81	1.527	NO	1.5997e5	1.8425e6	10.000	7.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6103e5	1.5556e6	10.000	6.4	4.98	0.666	0.0481
11	11	1,2,3,4,7,8-HxCDF	33.63	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	12	1,2,3,6,7,8-HxCDF	33.78	1.209	NO	1.0898e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	13	1,2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0301e6	10.000	7.1	7.69	0.922	0.0786
14	14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5276e5	10.000	4.9	5.96	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	38.96	0.850	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0652
16	16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.3417e4	4.7188e5	10.000	3.5	6.62	1.01	0.0670
17	17	OCDF	41.52	0.877	NO	1.0707e5	1.2711e6	20.000	5.0	7.16	0.602	0.0575

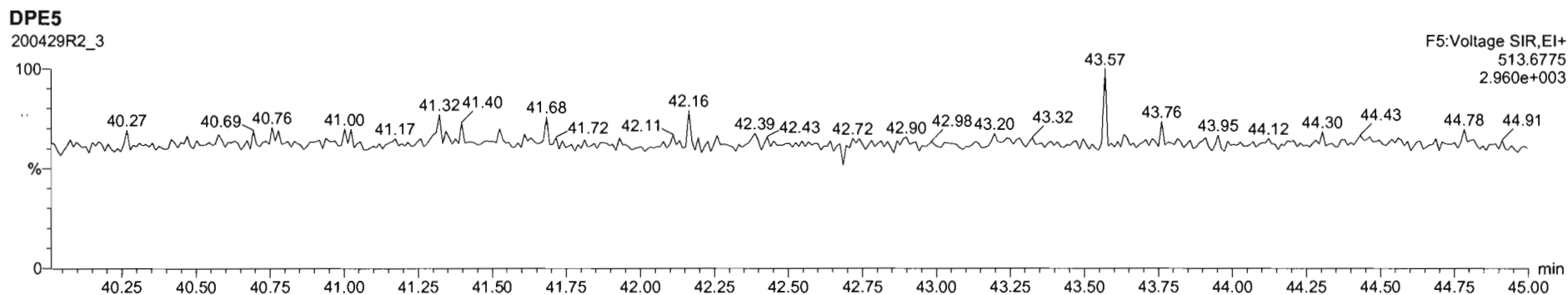
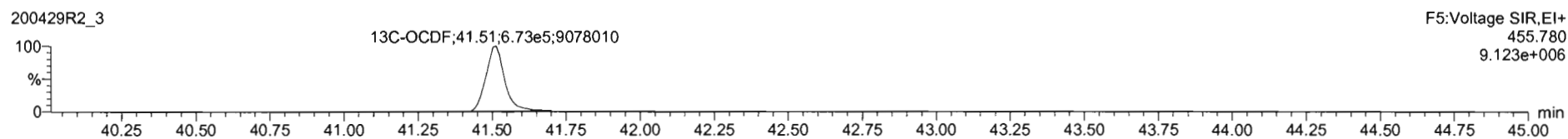
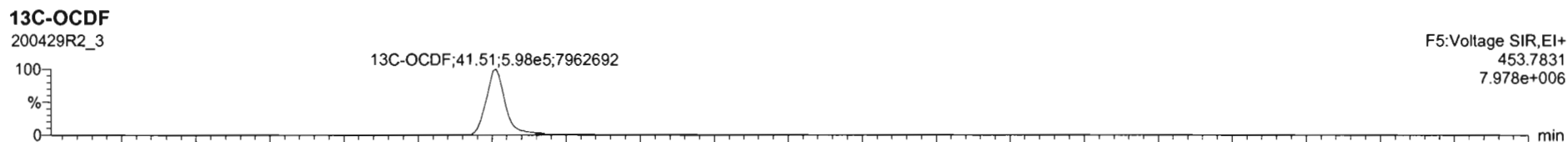
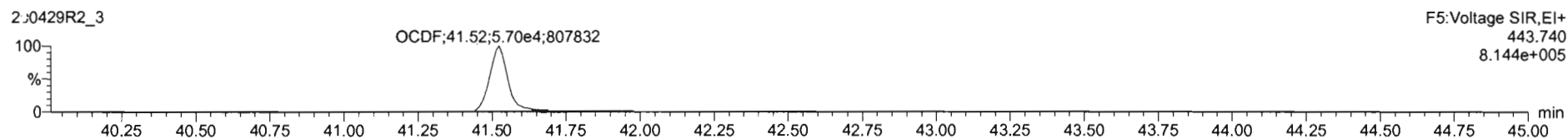
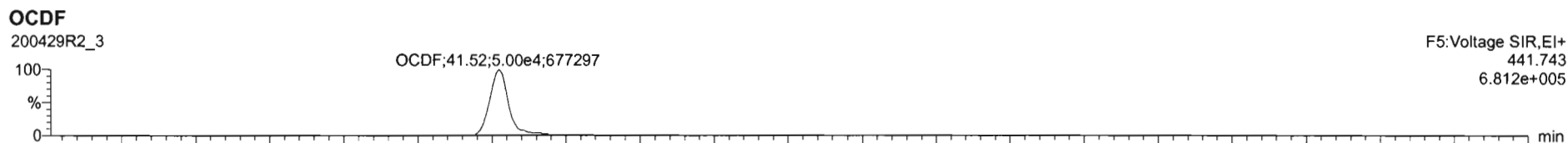


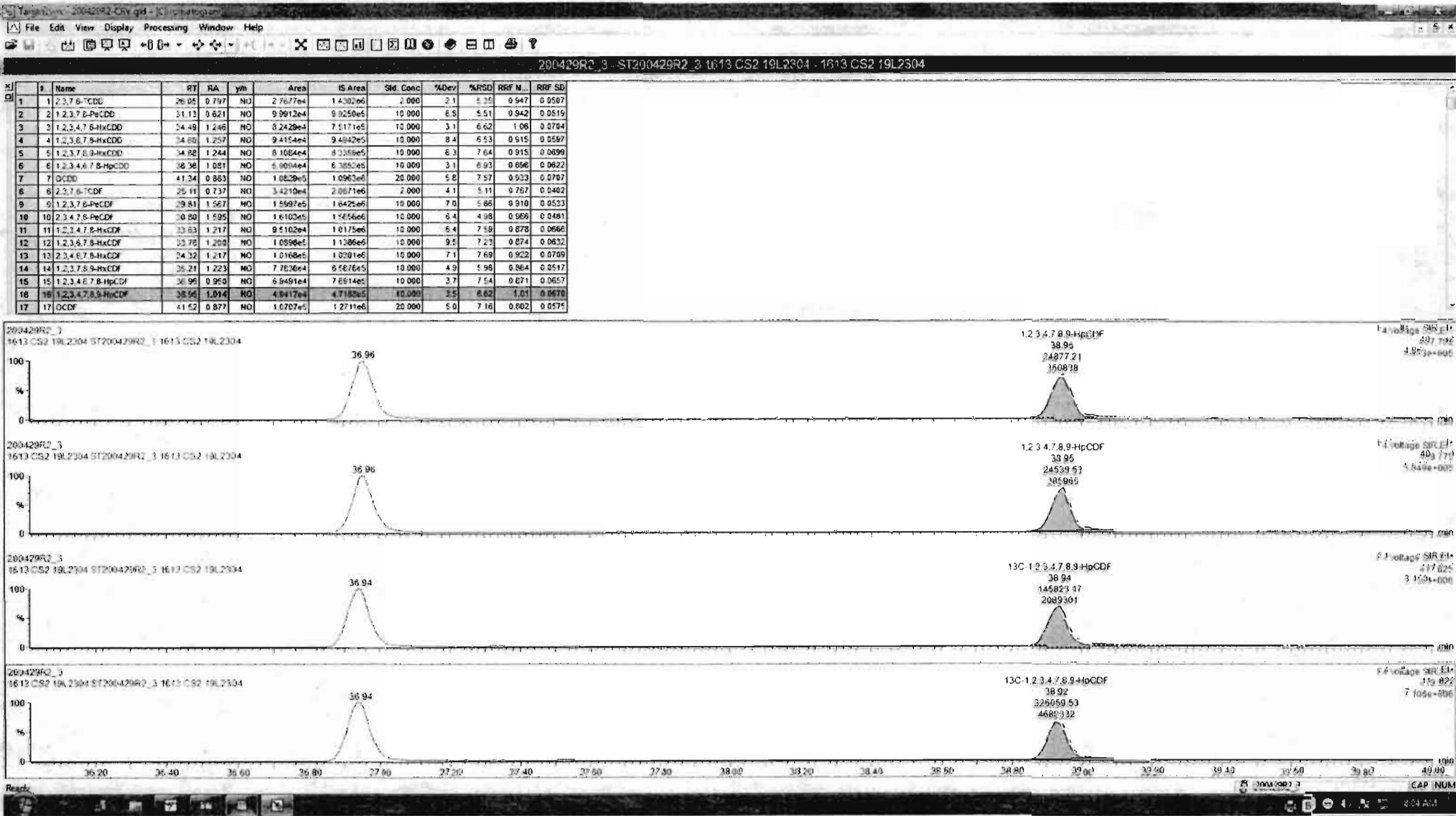
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



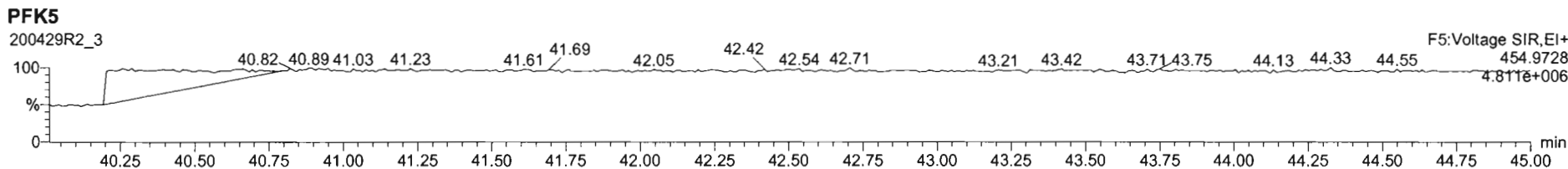
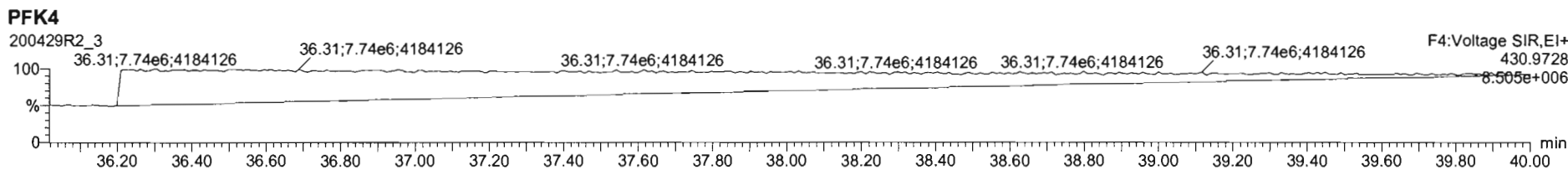
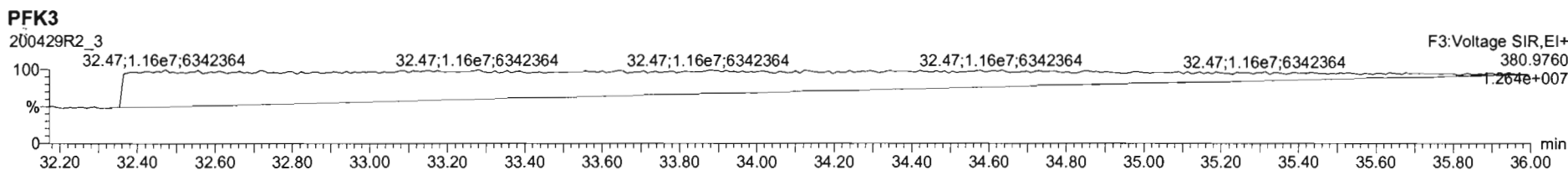
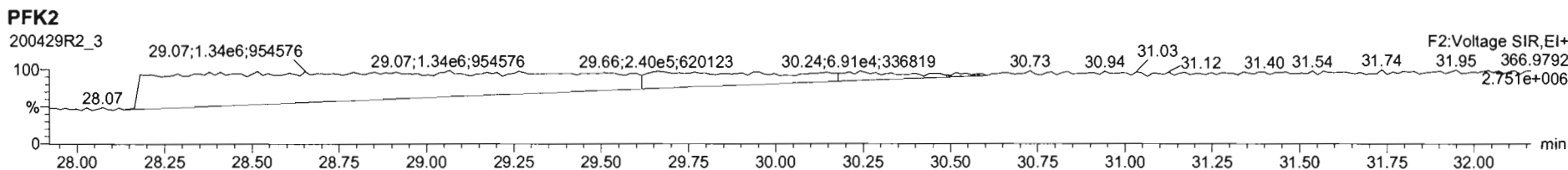
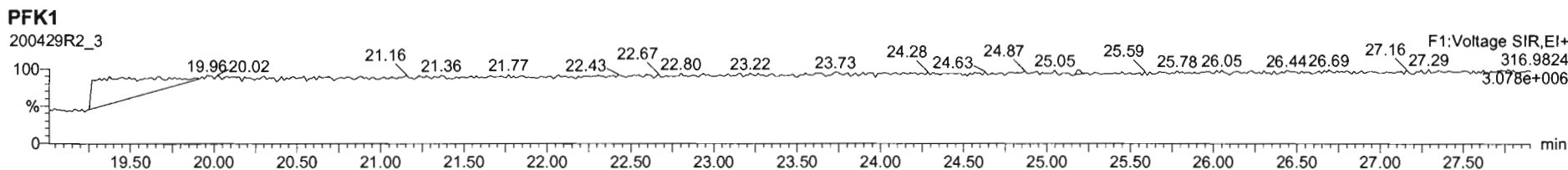




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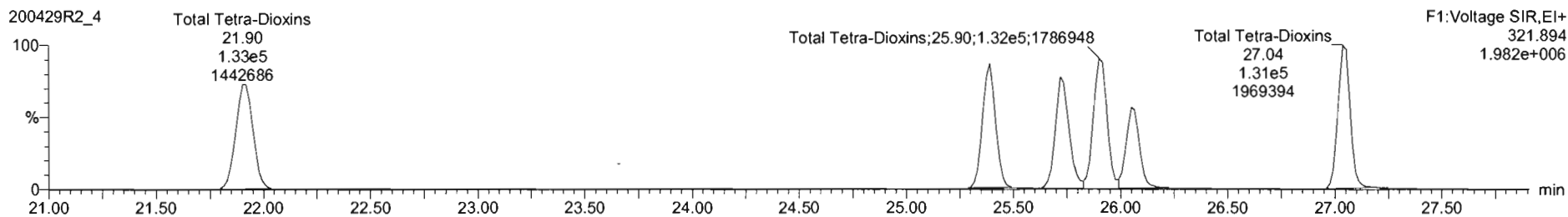
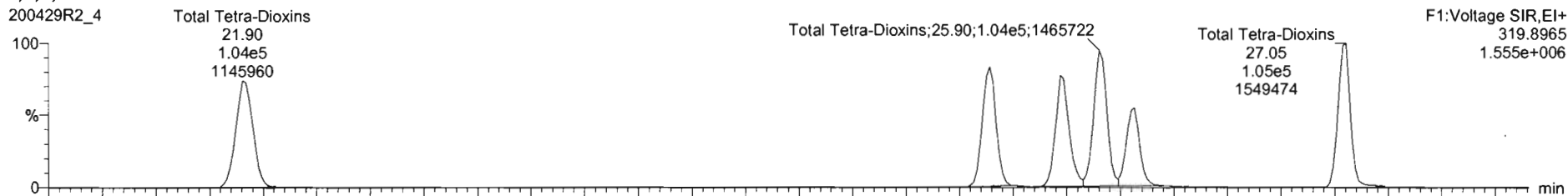


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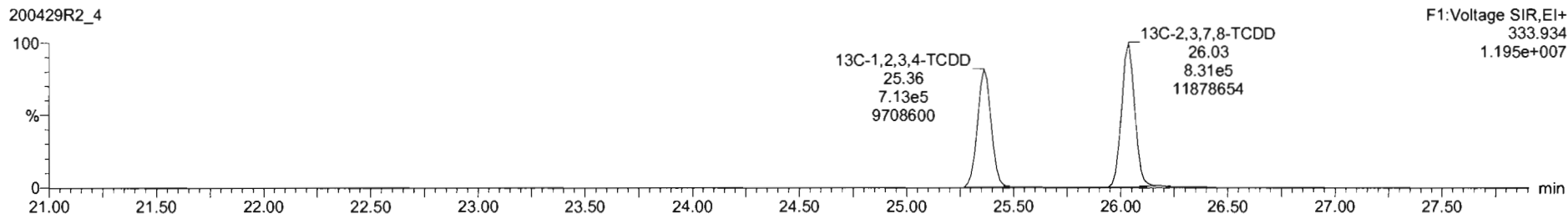
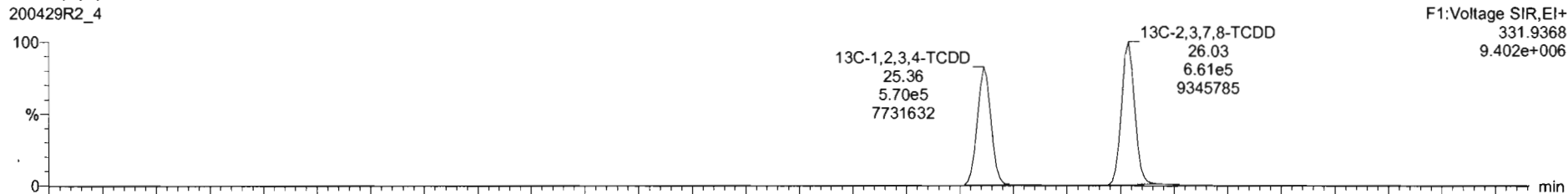
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**2,3,7,8-TCDD**



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



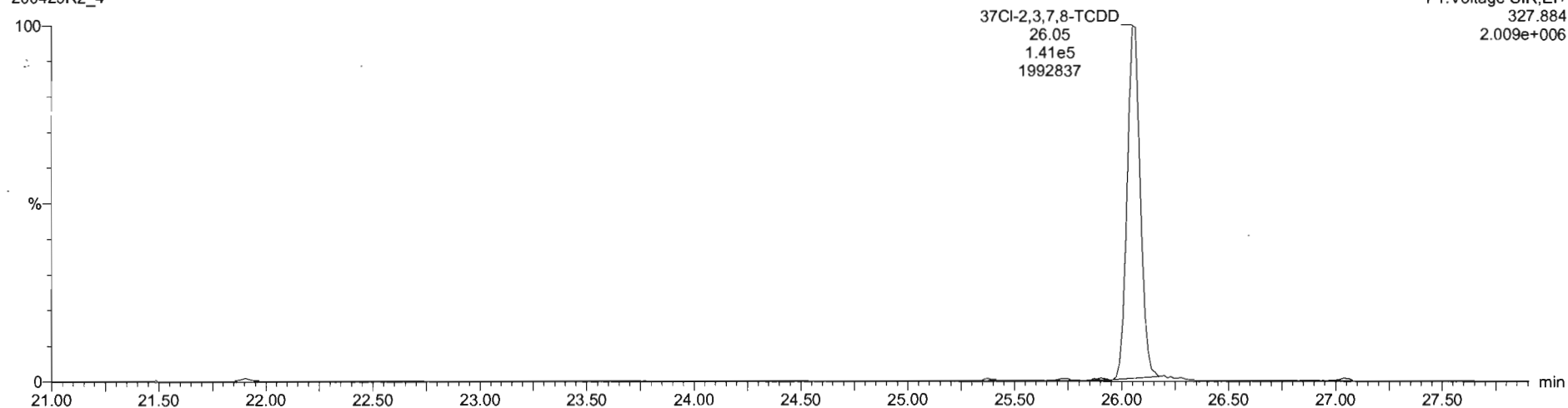
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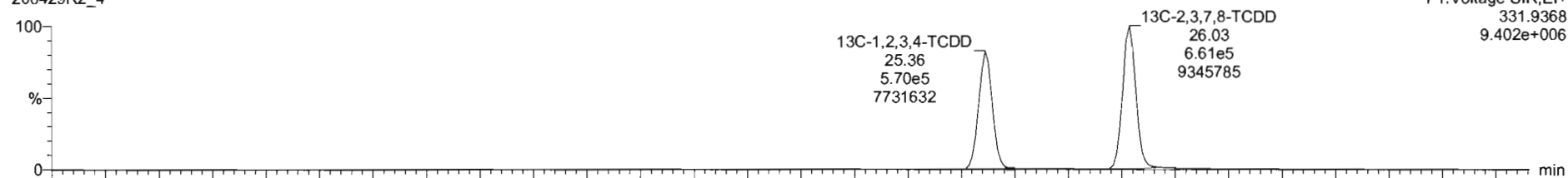
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200429R2\_4

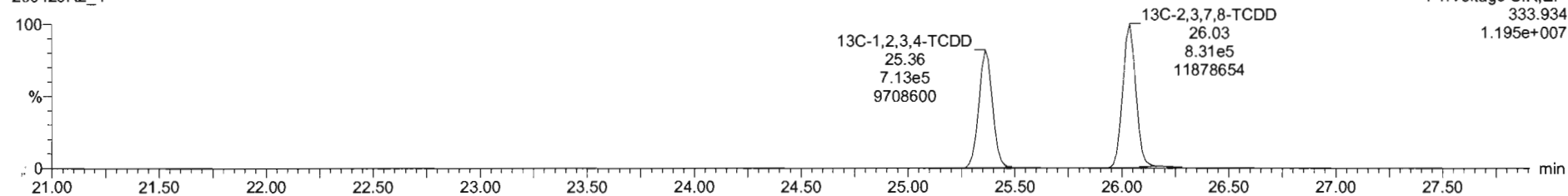


**13C-1,2,3,4-TCDD**

200429R2\_4



200429R2\_4



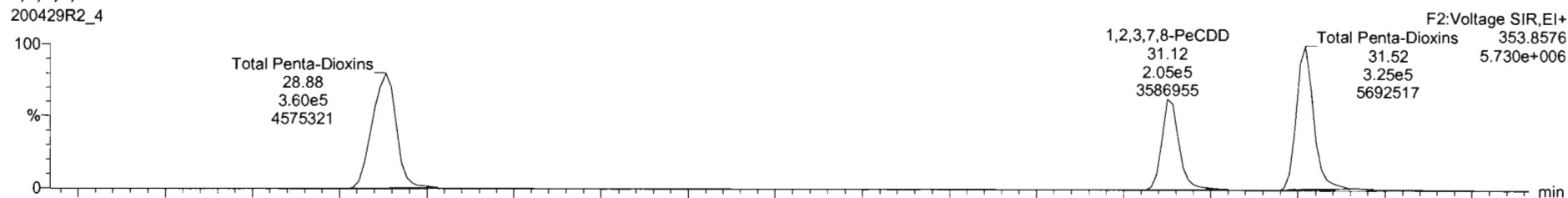
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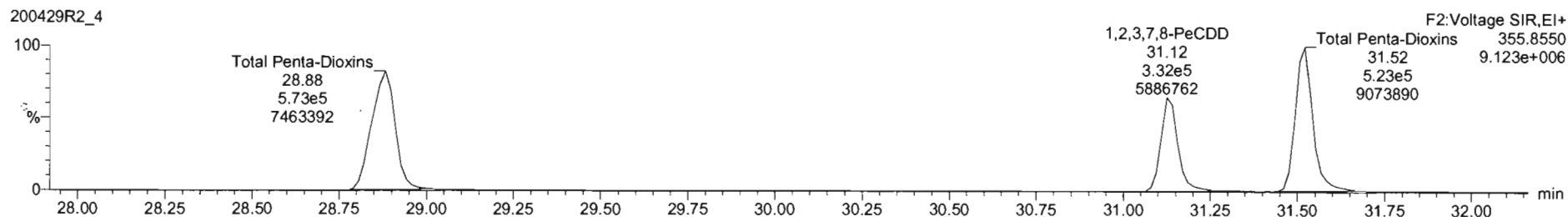
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**1,2,3,7,8-PeCDD**

200429R2\_4

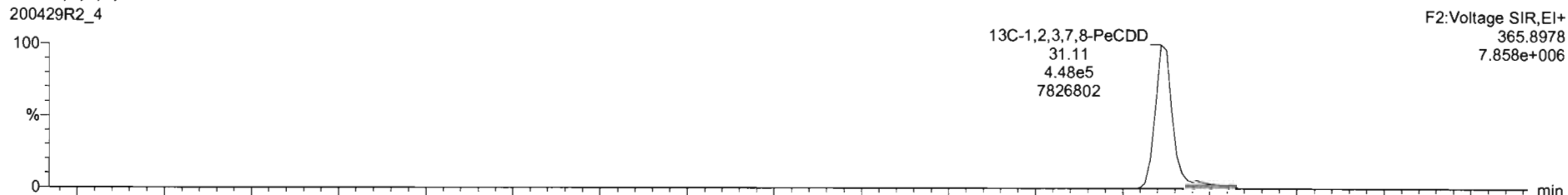


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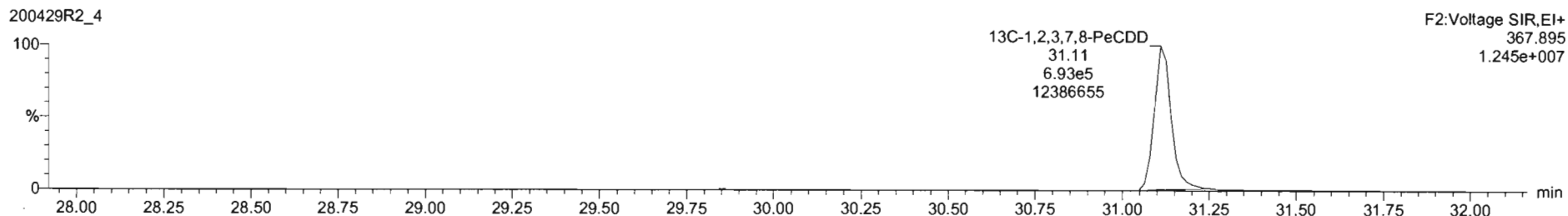


**13C-1,2,3,7,8-PeCDD**

200429R2\_4



200429R2\_4



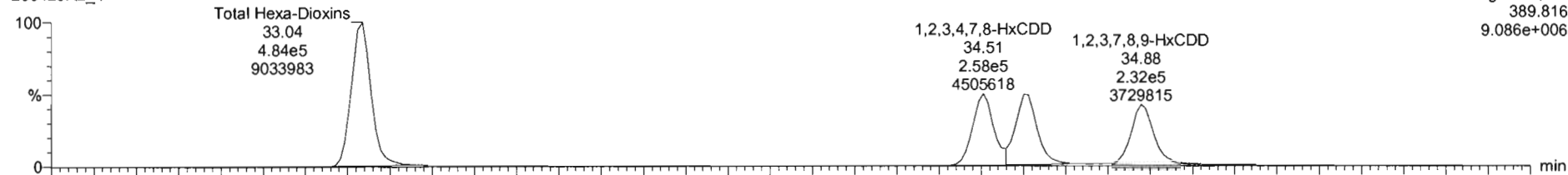
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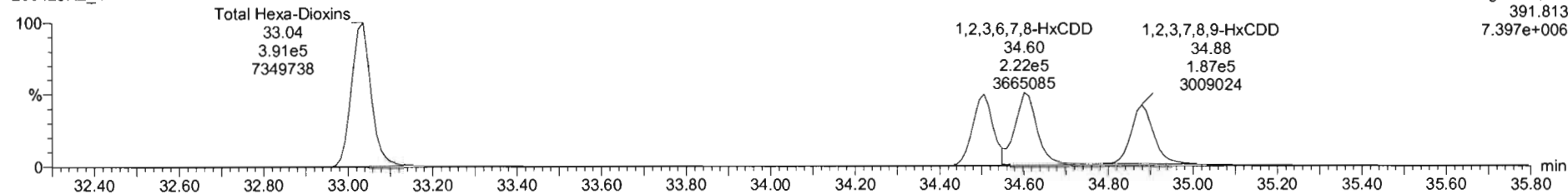
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**1,2,3,4,7,8-HxCDD**

200429R2\_4

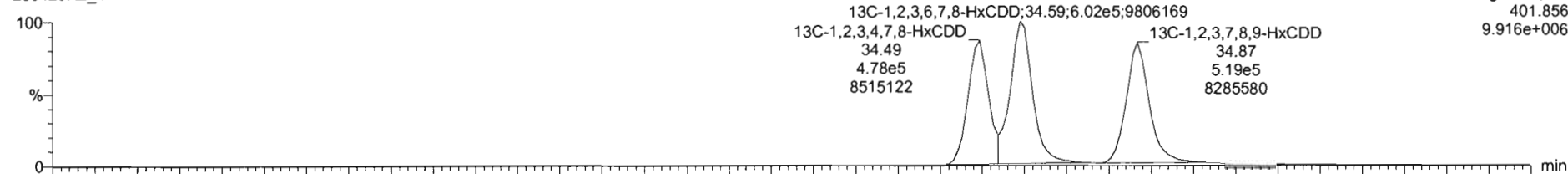


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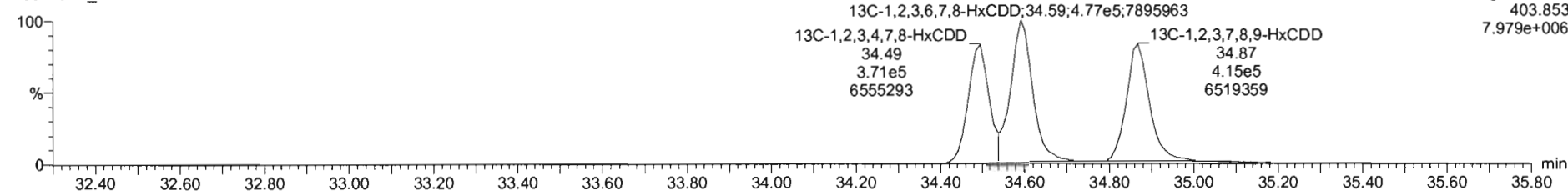


**13C-1,2,3,4,7,8-HxCDD**

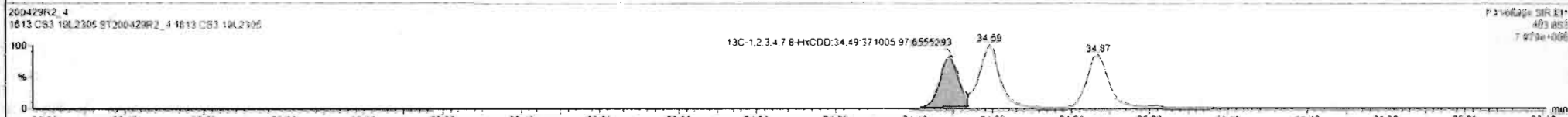
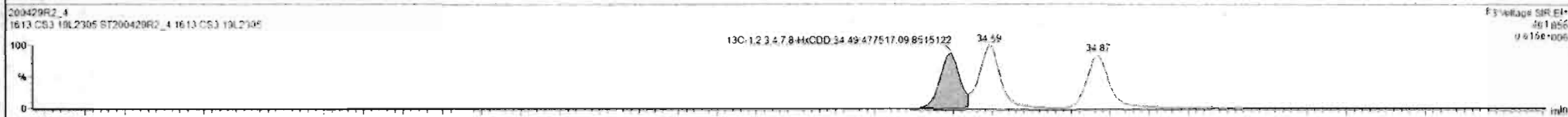
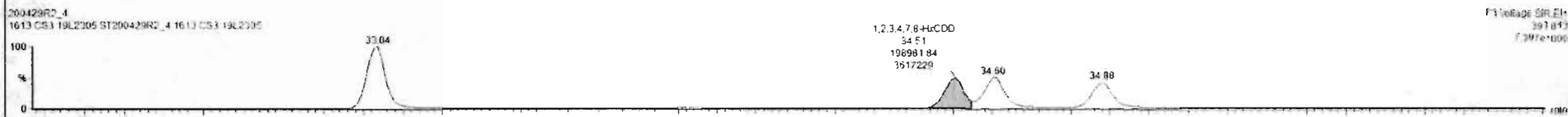
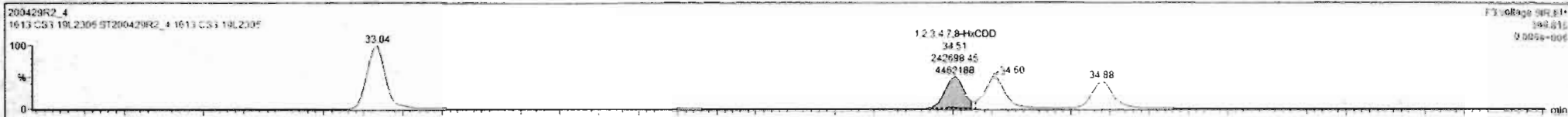
200429R2\_4



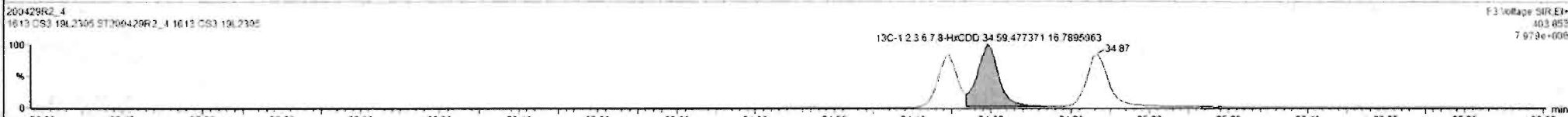
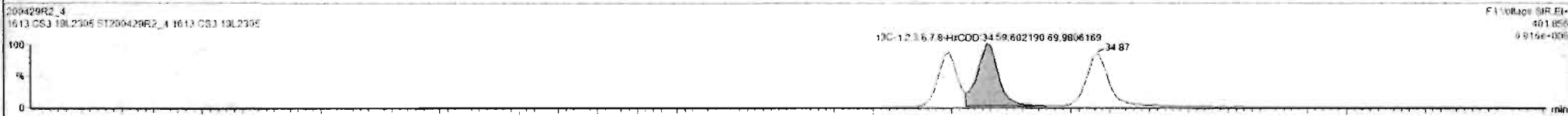
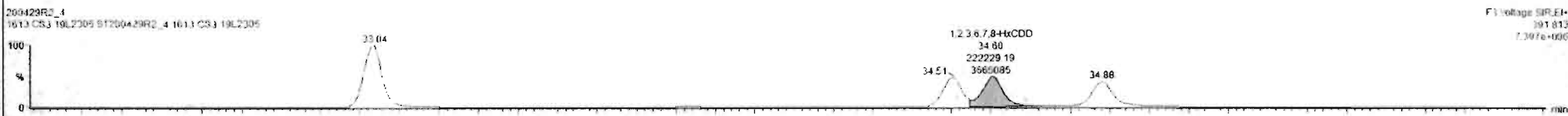
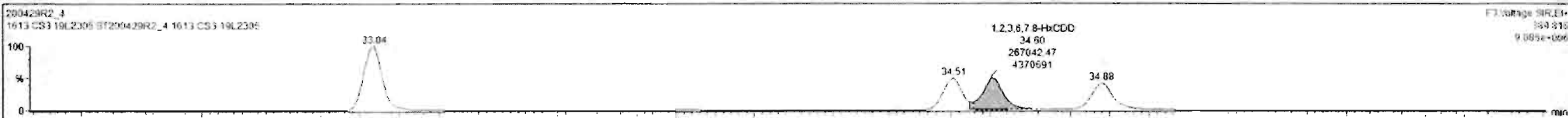
200429R2\_4



#	s	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.35	0.947	0.0407
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.226	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	4	1,2,3,6,7,8-HxCDD	34.82	1.202	NO	4.8827e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0493
5	5	1,2,3,7,8,9-HxCDD	34.82	1.239	NO	4.1946e5	9.2381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	38.38	0.988	NO	3.0789e5	6.7896e5	50.000	1.0	6.93	0.696	0.0622
7	7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.939	0.0763
8	8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0462
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.6862e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.666	0.0481
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5766e5	1.2611e6	50.000	1.2	7.23	0.874	0.0633
13	13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.68	0.902	0.0765
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.98	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5972e5	5.1182e5	50.000	0.3	6.62	1.01	0.0679
17	17	OCDF	41.53	0.862	NO	5.3038e5	1.3196e6	100.000	1.3	7.16	0.863	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3879e5	1.1411e6	50.000	0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8027e5	1.0736e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.98	1.239	NO	4.1946e5	9.2381e5	50.000	-1.5	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.38	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6237e5	1.1777e6	100.000	2.3	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1451e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.6822e6	50.000	0.0	5.86	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.80	1.559	NO	8.7458e5	1.9179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.75	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.602	0.0575



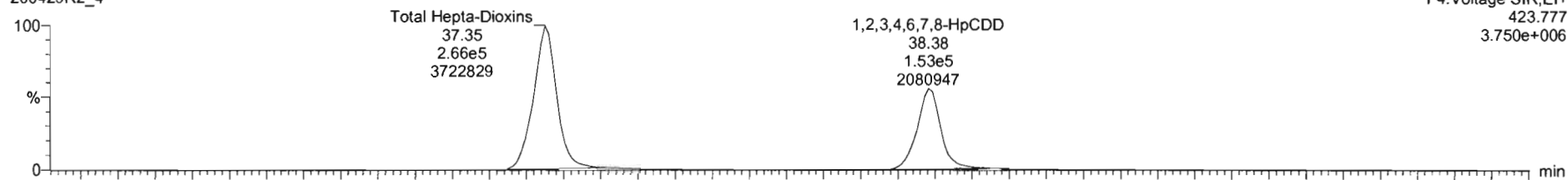
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

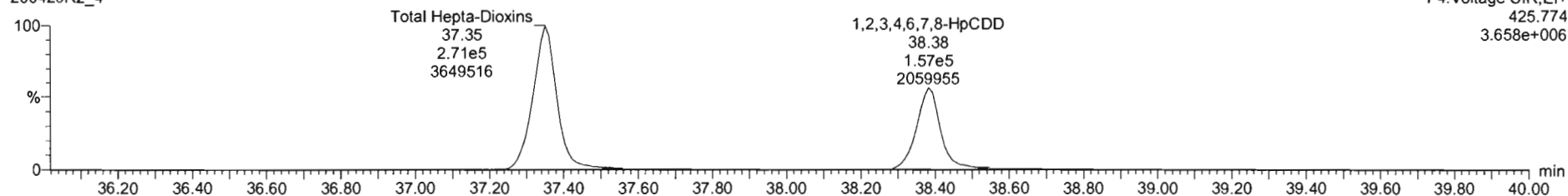
1,2,3,4,6,7,8-HpCDD

200429R2\_4



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3.750e+006

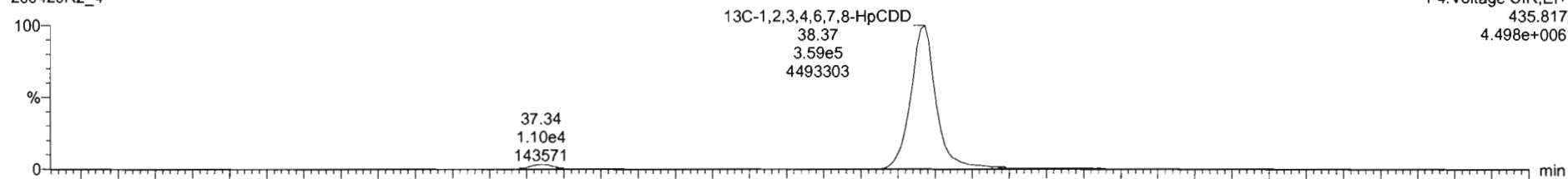
200429R2\_4



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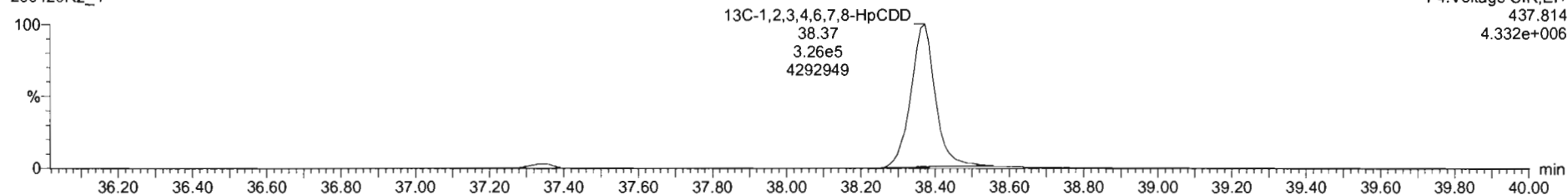
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200429R2\_4



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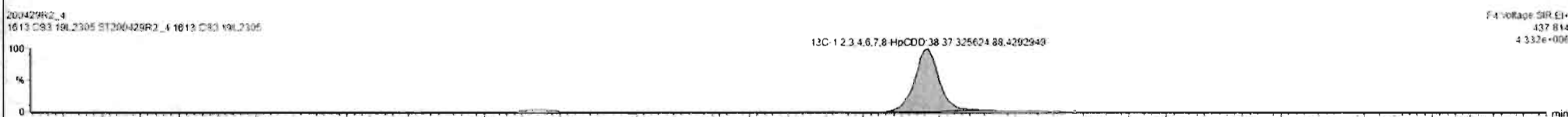
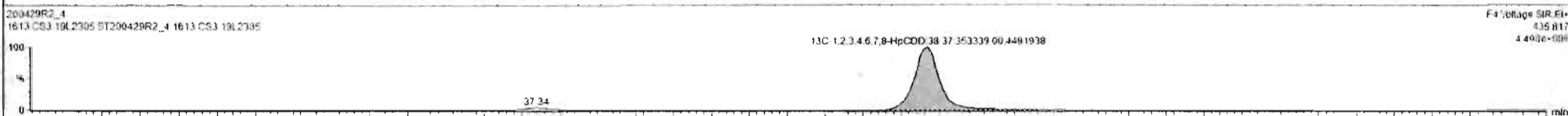
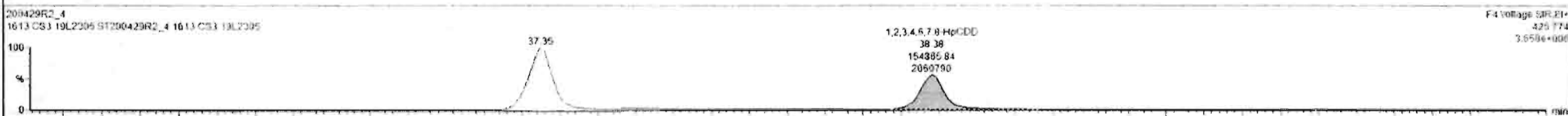
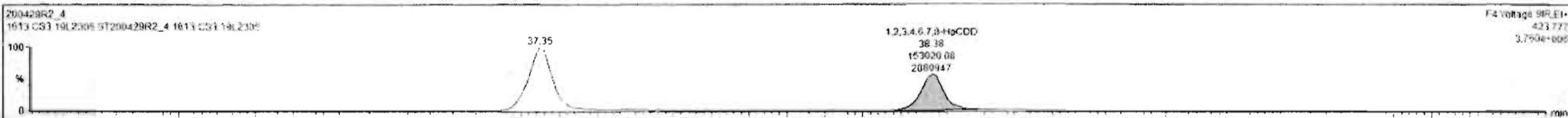
200429R2\_4



F4: Voltage SIR, EI+  
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4.332e+006



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,6-7-ClDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.229	NO	4.4168e5	8.4852e5	50.000	2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.00	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.98	1.219	NO	4.1946e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.36	0.968	NO	3.0769e5	6.7596e5	50.000	1.0	6.93	0.898	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.923	0.0707
8	2,3,7,8-7CDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.8662e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	29.00	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	24.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2834e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	8.6486e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.06	0.998	NO	2.6973e5	5.1185e5	50.000	0.3	6.62	1.01	0.0678
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



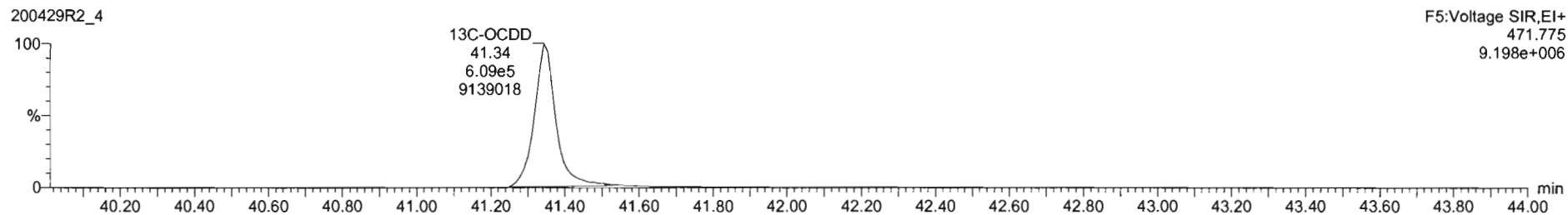
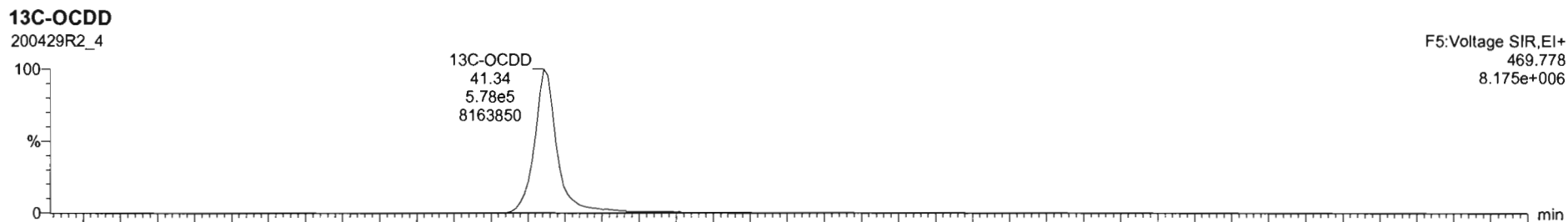
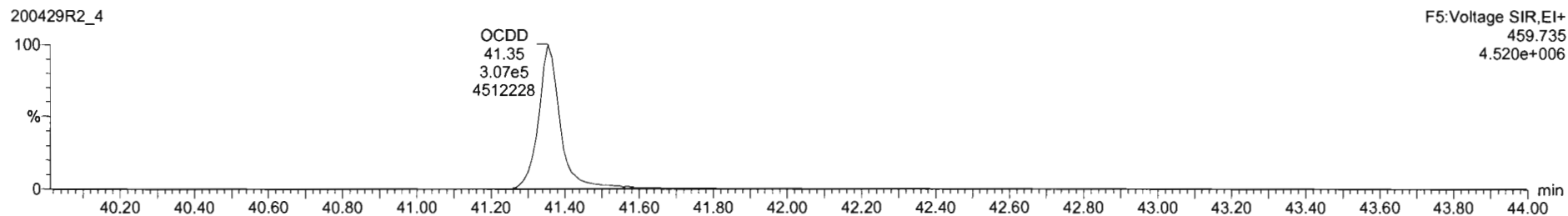
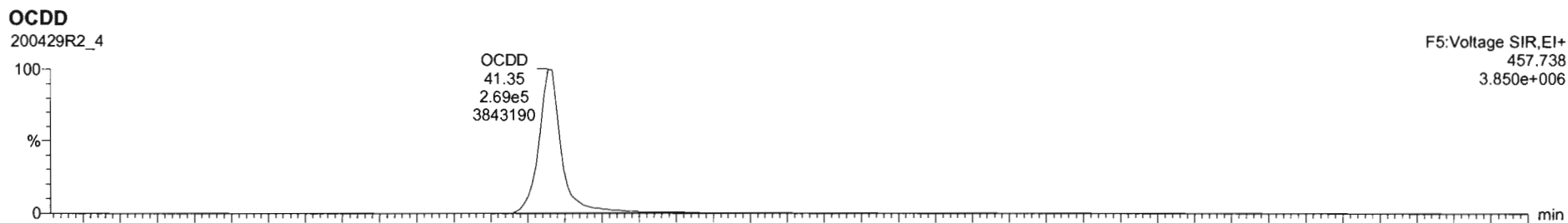
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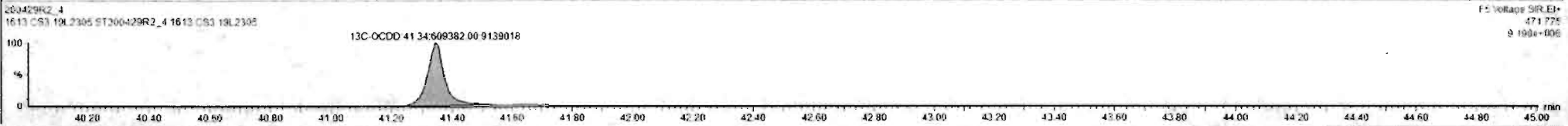
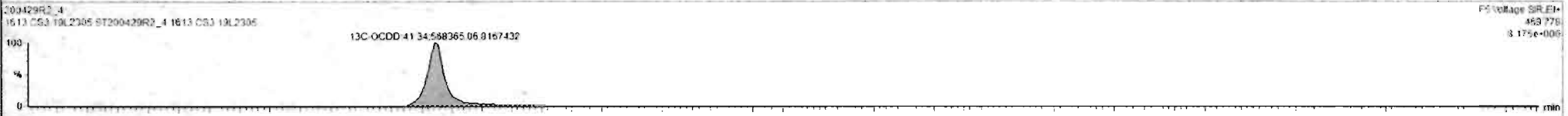
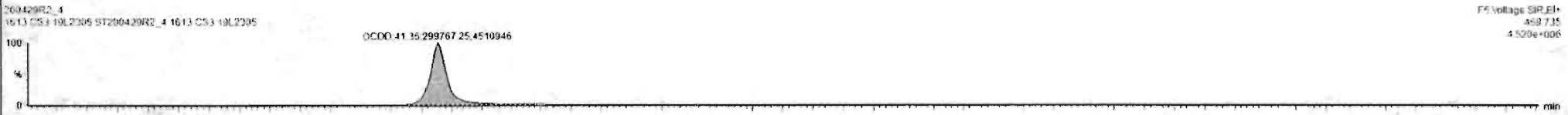
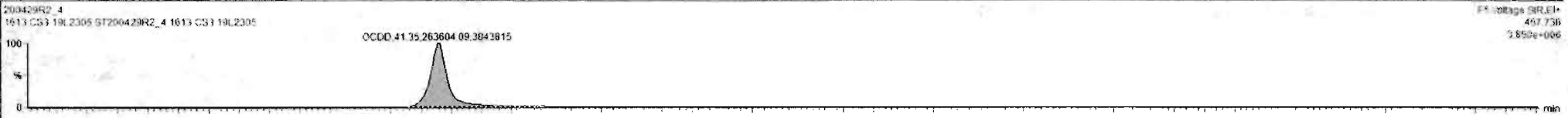
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4920e5	10.000	0.8	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.239	NO	4.1546e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	36.36	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.656	0.0622
7	OCDD	41.35	0.879	NO	5.8337e5	1.1777e6	100.000	2.5	7.57	0.833	0.0269
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.8722e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5706e5	1.2811e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1299e6	50.000	3.2	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1183e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



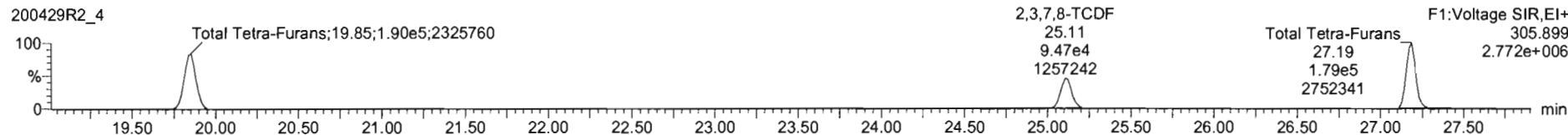
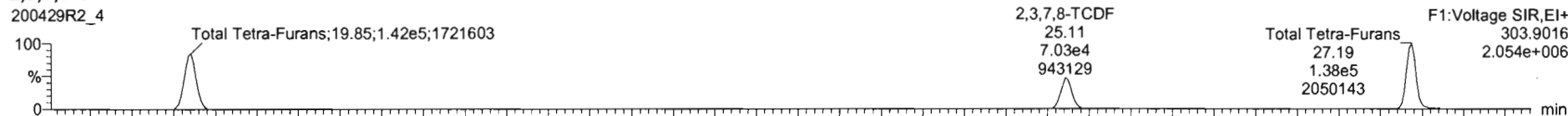
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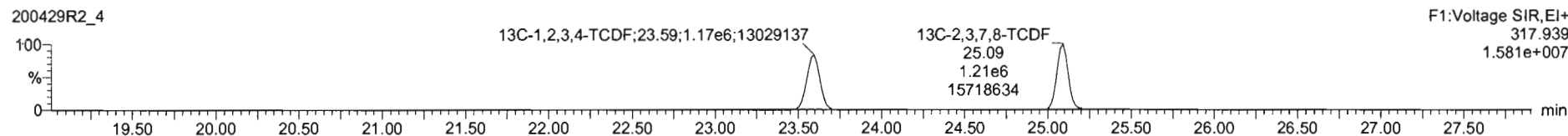
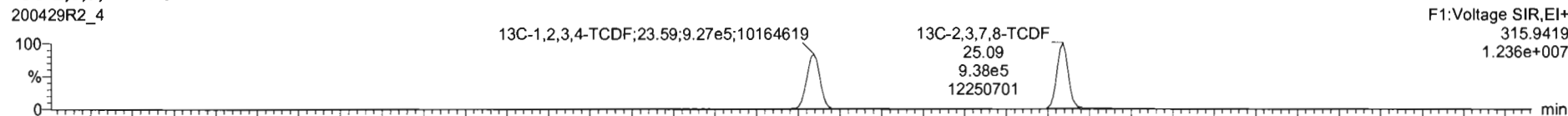
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Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

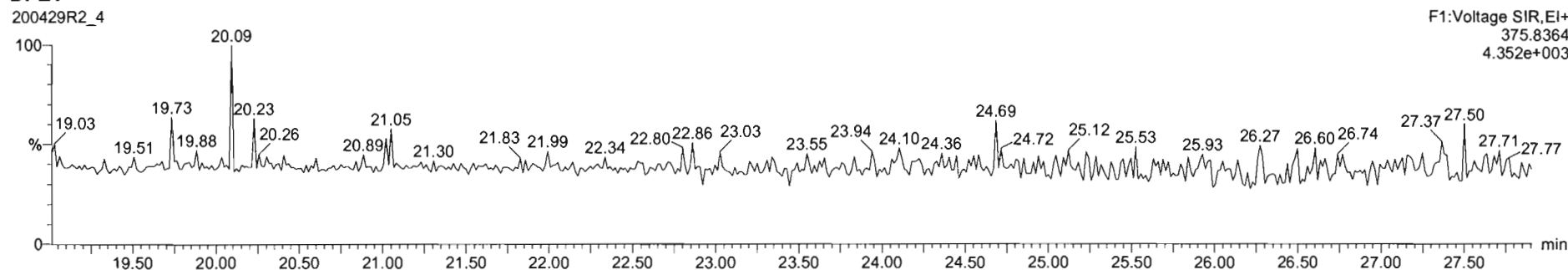
**2,3,7,8-TCDF**



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



**DPE1**



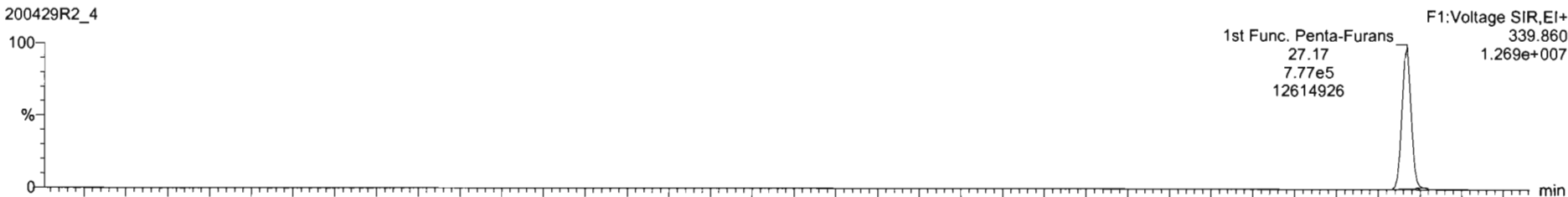
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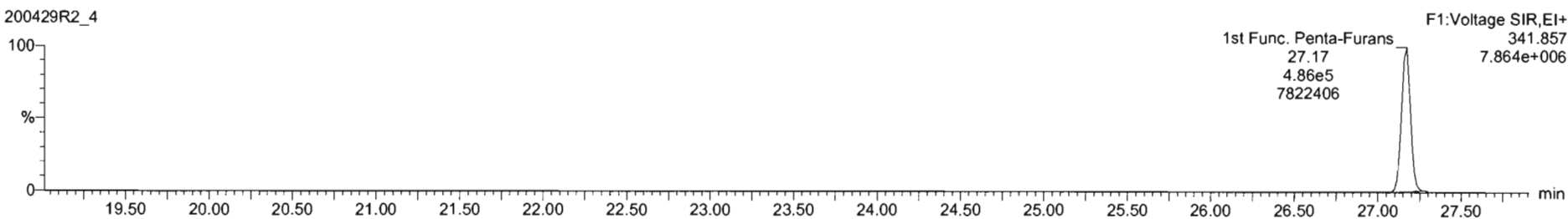
Name: 200429R2\_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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200429R2\_4

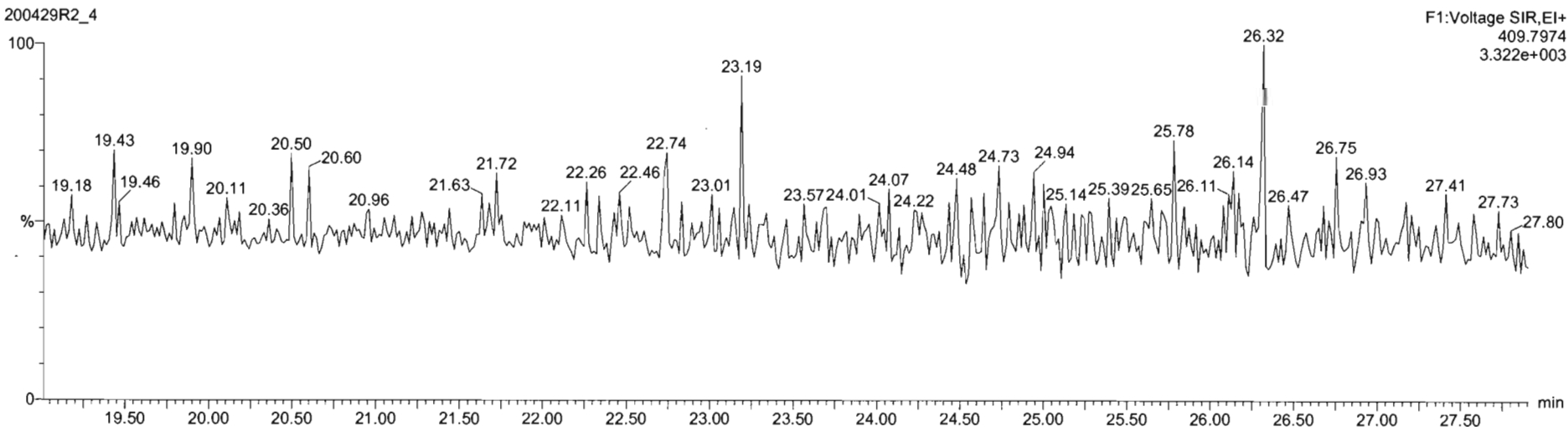


200429R2\_4



DPE6

200429R2\_4



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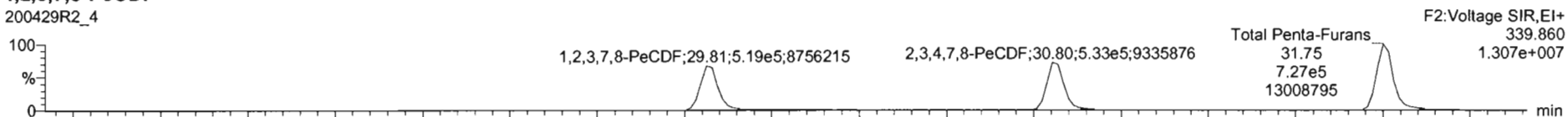
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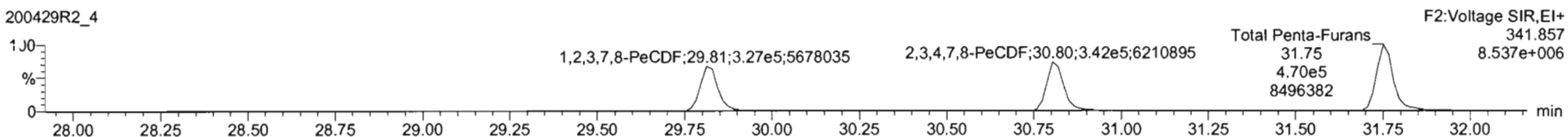
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**1,2,3,7,8-PeCDF**

200429R2\_4

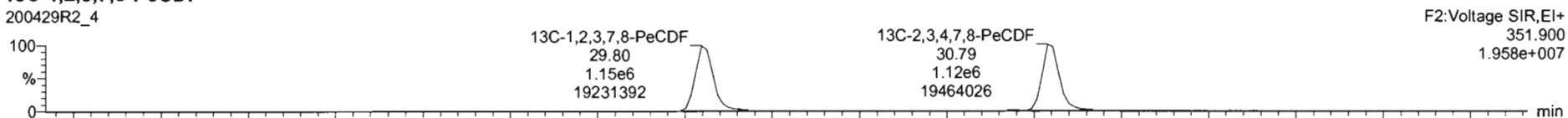


200429R2\_4

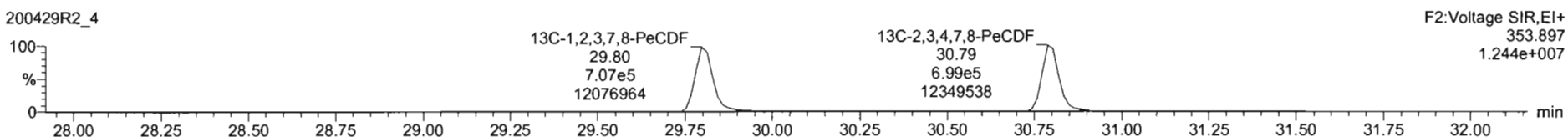


**13C-1,2,3,7,8-PeCDF**

200429R2\_4

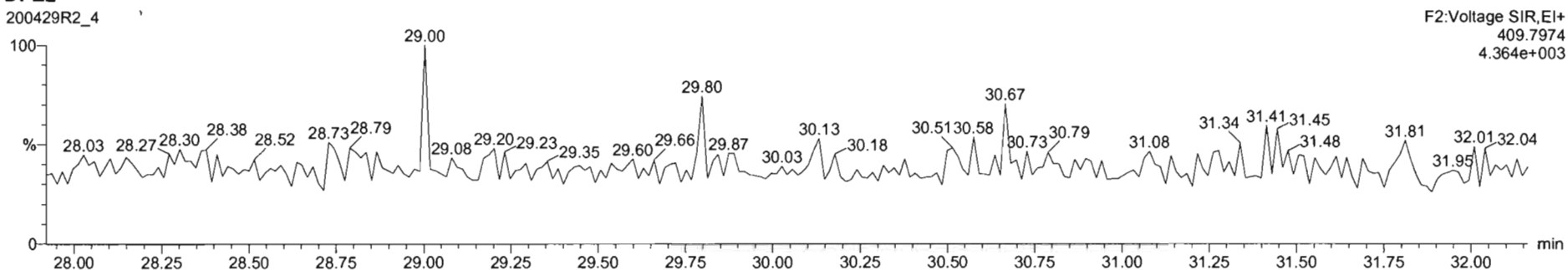


200429R2\_4



**DPE2**

200429R2\_4

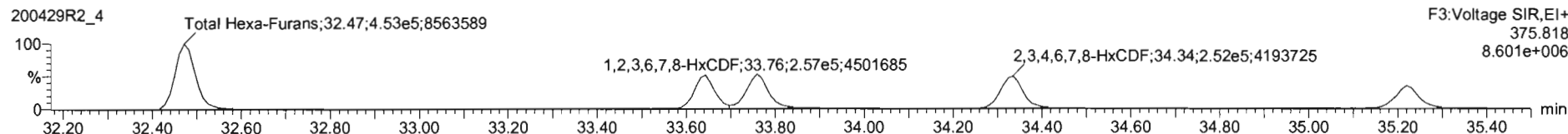
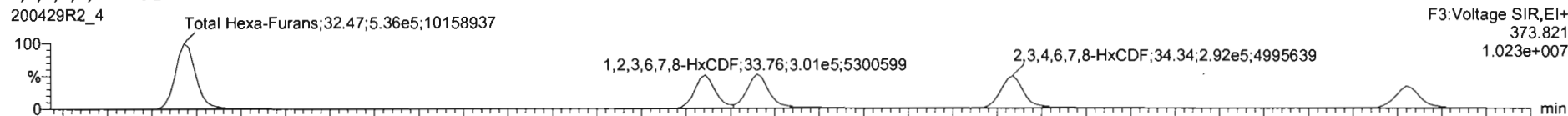


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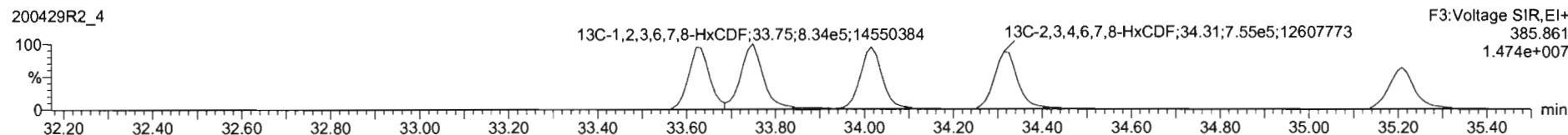
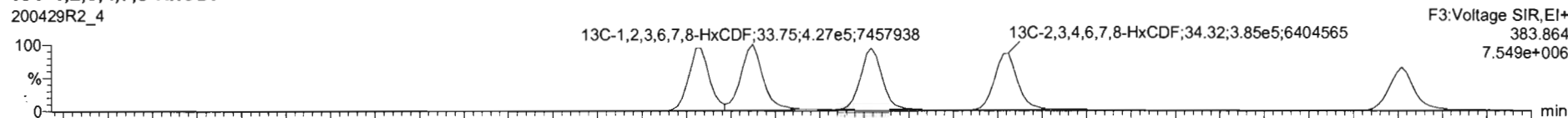
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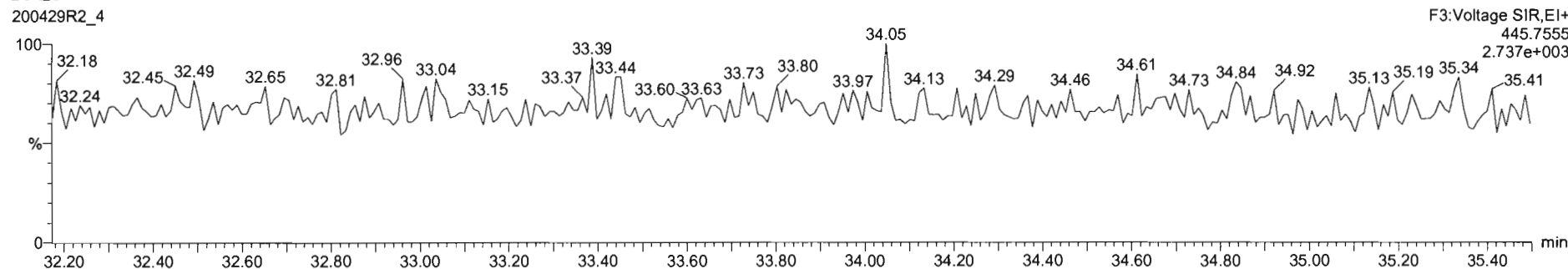
**1,2,3,4,7,8-HxCDF**



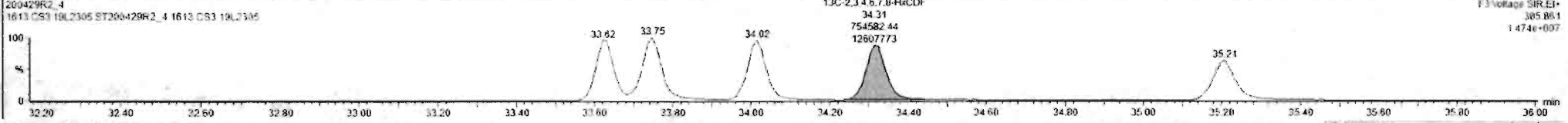
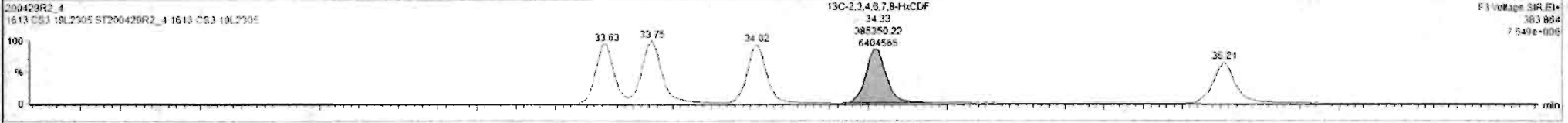
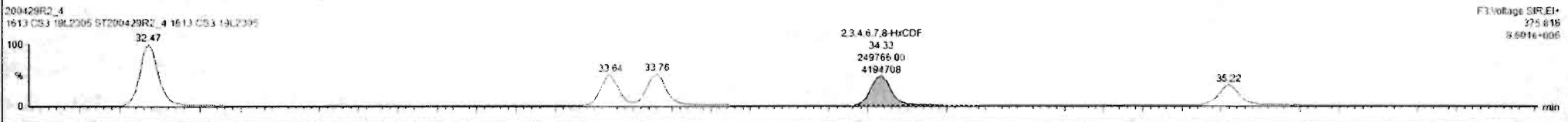
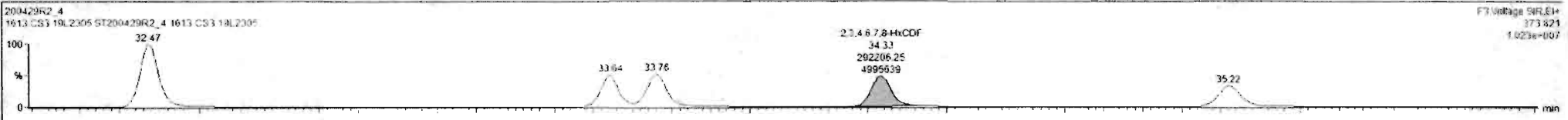
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%PSD	RRF M.L.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4850e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.0790e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.219	NO	4.1946e5	9.5281e5	50.000	-1.8	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.36	0.988	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.089	NO	8.4785e5	1.6762e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.90	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1232e6	50.000	1.1	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0652
13	2,3,4,6,7,8-HxCDF	34.33	1.171	NO	5.4192e5	1.1399e6	50.000	3.2	7.89	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.7	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.97	0.952	NO	3.7224e5	6.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1832e5	50.000	0.3	4.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3188e6	100.000	1.3	7.16	0.802	0.0575

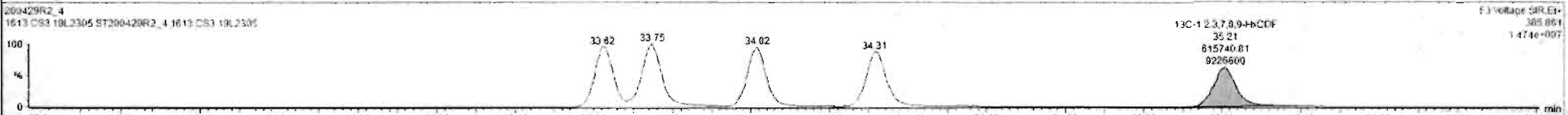
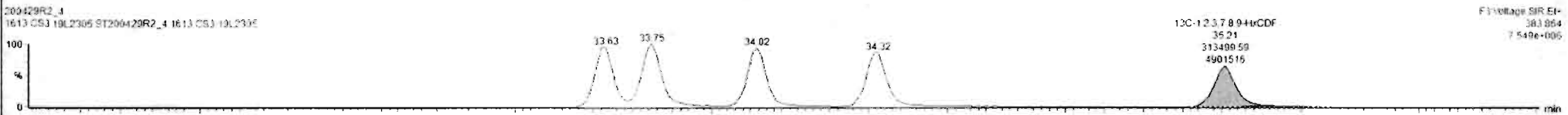
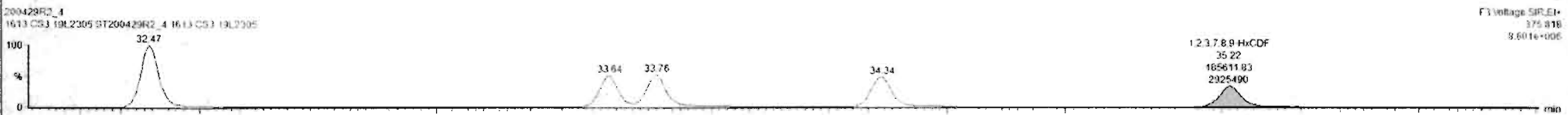


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200429R2\_4 CAP NUM



#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.8	1.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.2678e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.202	NO	4.8027e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	24.98	1.219	NO	4.1546e5	9.3381e5	50.000	-1.5	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.38	0.988	NO	2.0768e5	6.7896e5	50.000	1.0	6.92	0.858	0.0622
7	OCDD	41.25	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.613	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4165e5	1.6682e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.6312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.23	1.170	NO	5.4197e5	1.1394e6	50.000	3.1	7.69	0.902	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.164	NO	4.6244e5	9.2024e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7234e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5973e5	5.1182e5	50.000	0.3	6.82	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.1650e5	1.3198e6	100.000	1.5	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2\_4 CAP NUM

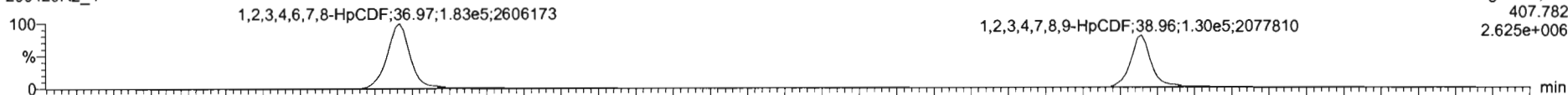
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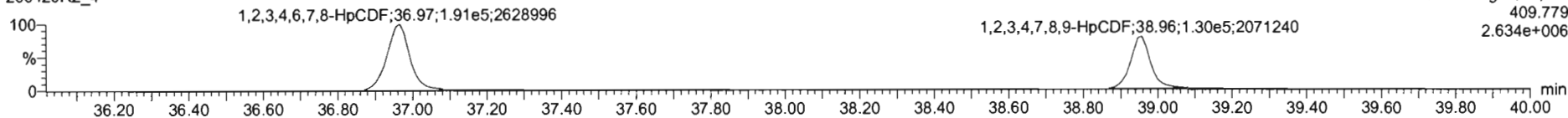
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200429R2\_4



F4:Voltage SIR,EI+  
407.782  
2.625e+006

200429R2\_4



F4:Voltage SIR,EI+  
409.779  
2.634e+006

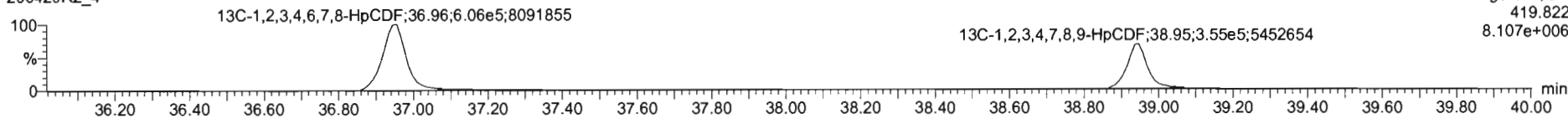
**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_4



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3.452e+006

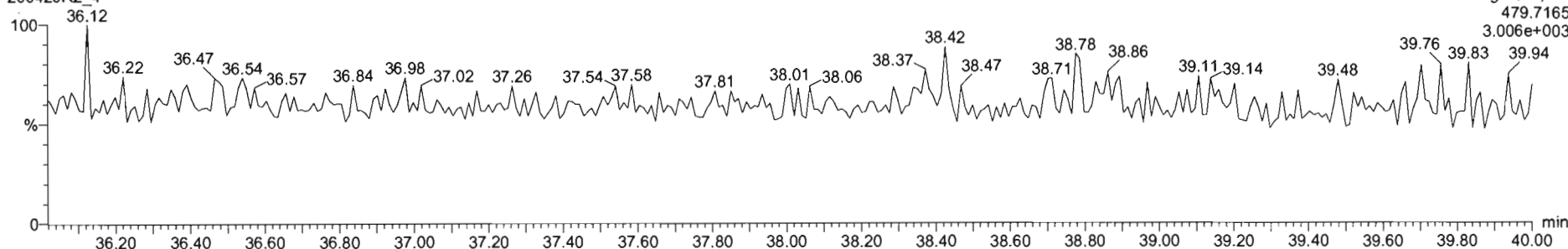
200429R2\_4



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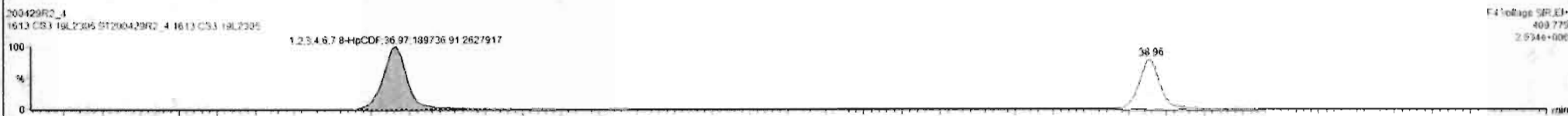
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200429R2\_4

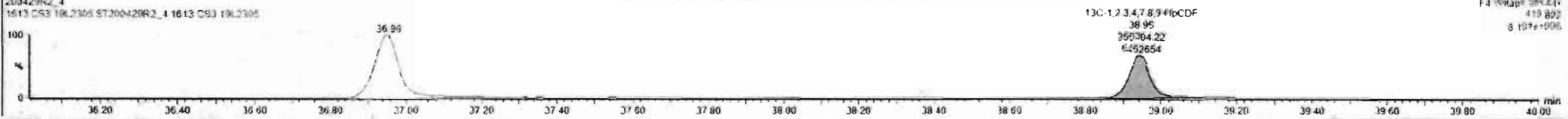
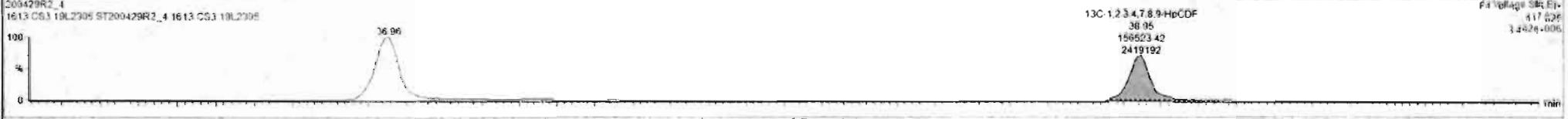
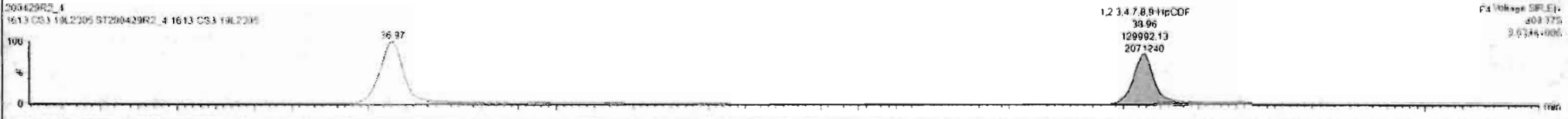
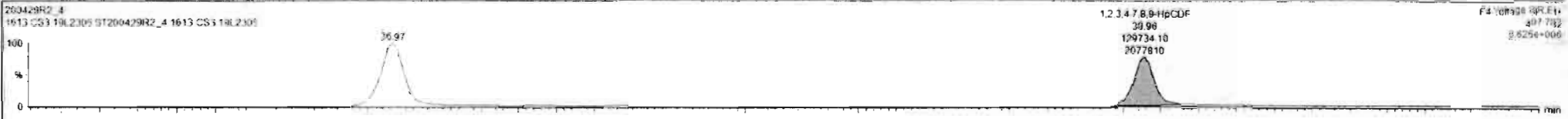


F4:Voltage SIR,EI+  
479.7165  
3.006e+003

#	s	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4820e6	10.000	0.8	5.25	0.947	0.0587
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.6796e6	50.000	-0.9	6.53	0.915	0.0597
5	5	1,2,3,7,8,9-HxCDD	34.88	1.238	NO	4.1946e5	6.3381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	36.36	0.988	NO	3.0769e5	6.7896e5	50.000	1.0	6.90	0.856	0.0622
7	7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.8	7.57	0.933	0.0767
8	8	1,2,3,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4565e5	1.6562e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.558	NO	8.7458e5	1.6179e6	50.000	-0.4	4.98	0.966	0.0461
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4191e5	1.1799e6	50.000	3.2	7.69	0.922	0.0709
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.87	0.962	NO	3.7234e5	6.6465e5	50.000	-1.2	7.54	0.871	0.0657
16	16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5673e5	5.1182e5	50.000	0.3	6.62	1.01	0.0670
17	17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0562
5	1,2,3,7,8,9-HxCDD	34.68	1.213	NO	4.1946e5	9.3815e5	50.000	-1.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	0.988	NO	3.0765e5	6.7896e5	50.000	1.0	8.93	0.896	0.0622
7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,2,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.6581e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.98	0.968	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2E11e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1999e6	50.000	3.2	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7274e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.7639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575

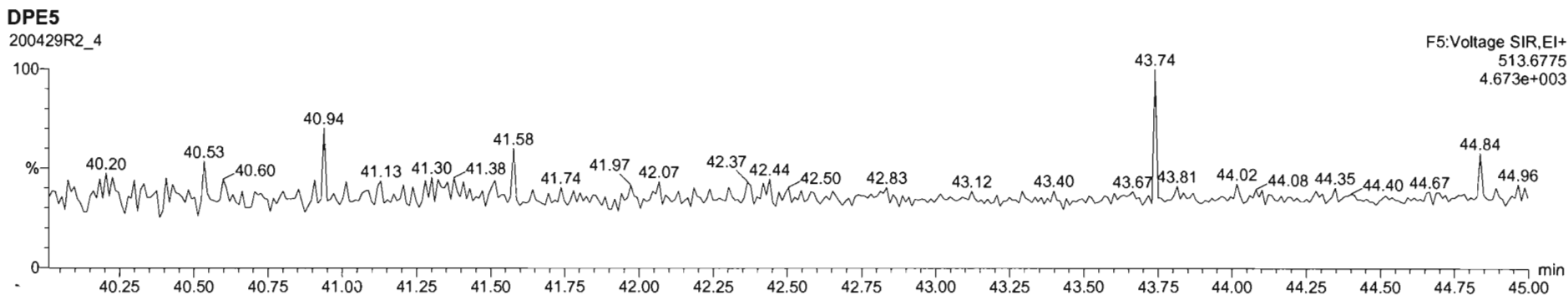
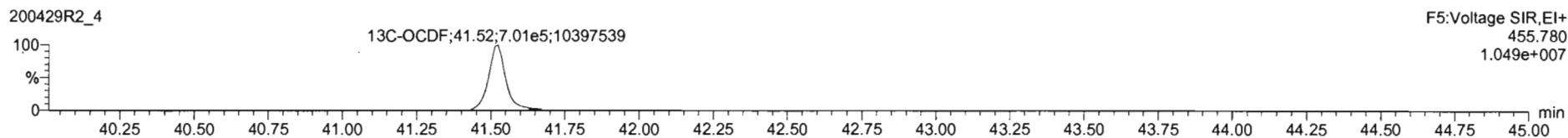
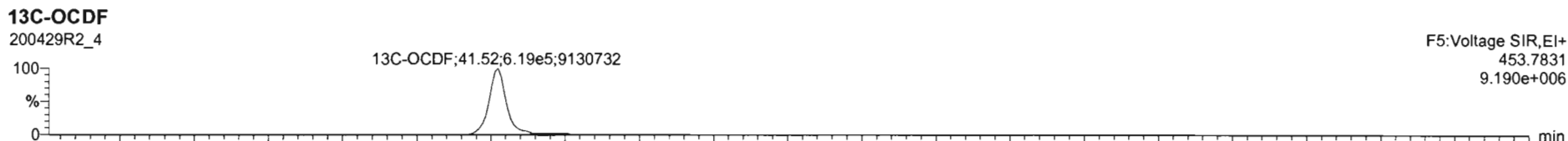
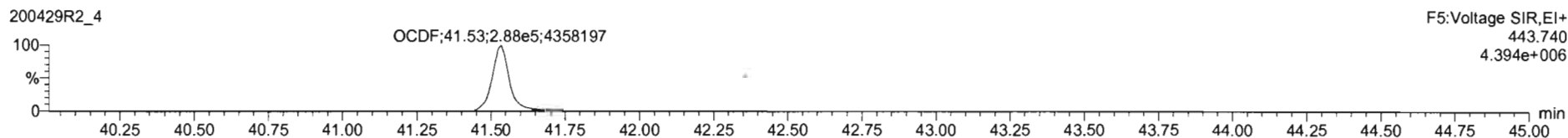
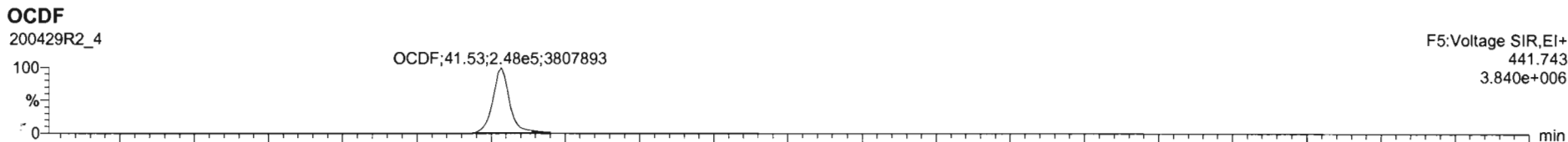


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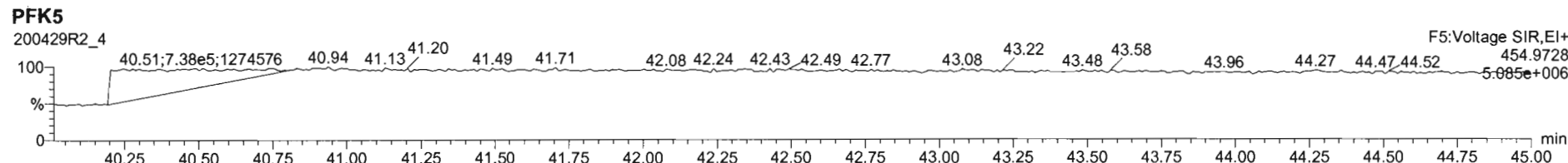
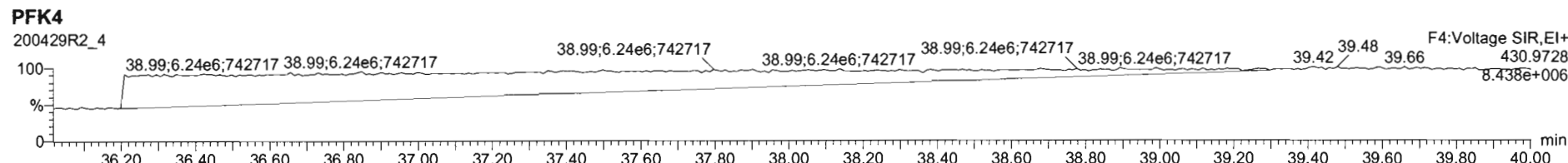
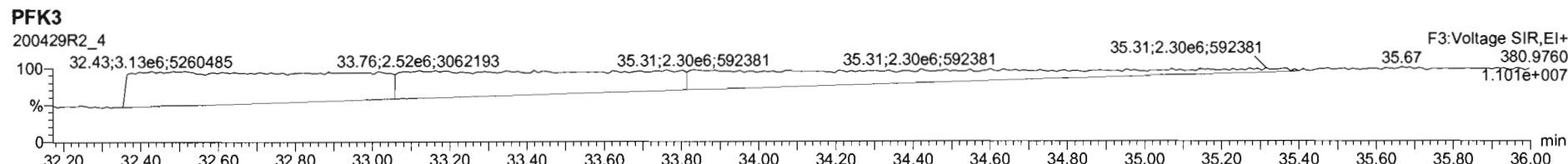
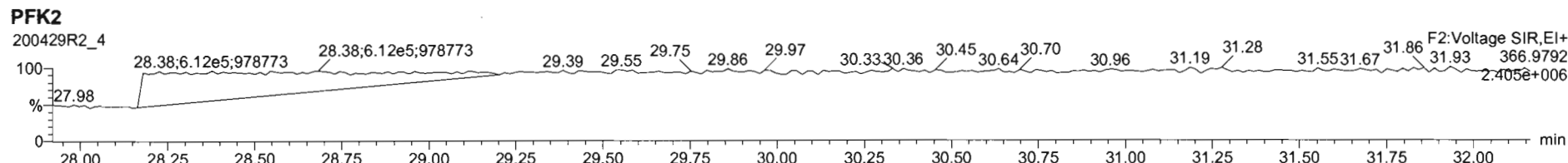
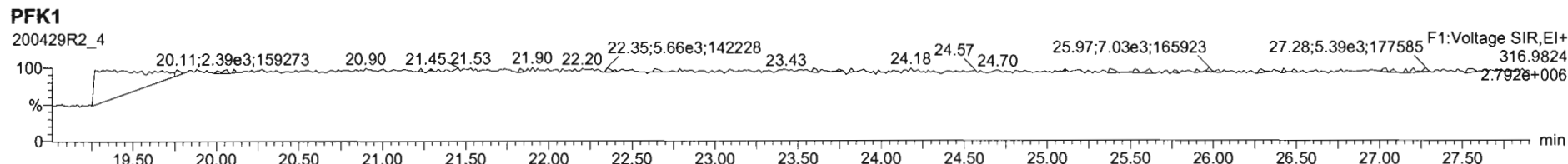
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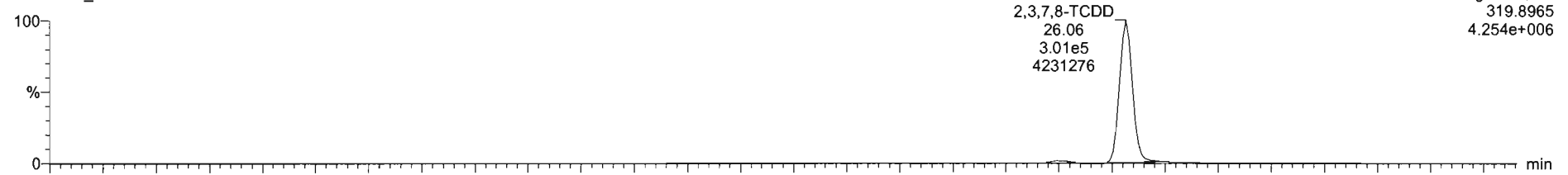
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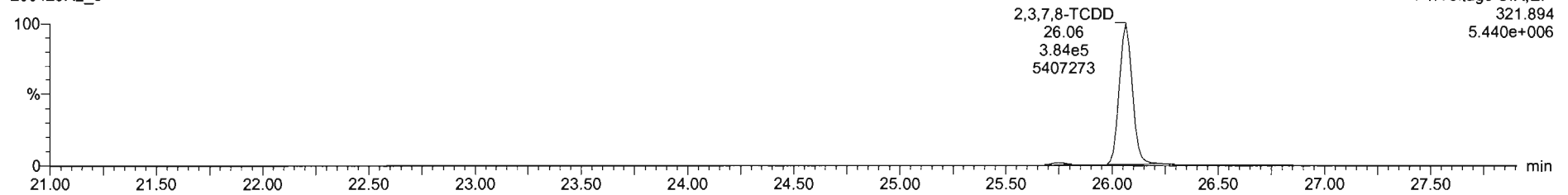
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**2,3,7,8-TCDD**

200429R2\_5

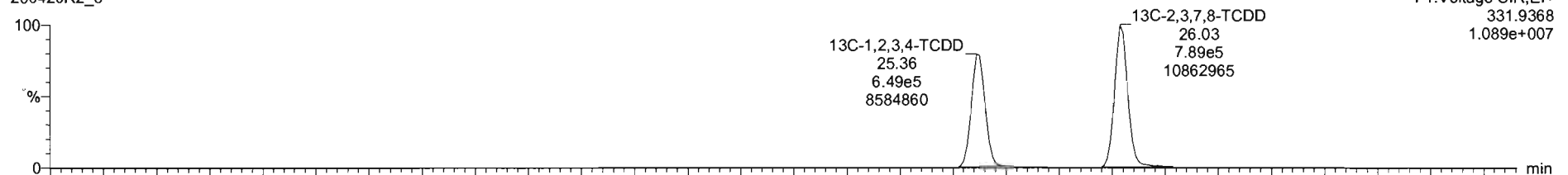


200429R2\_5

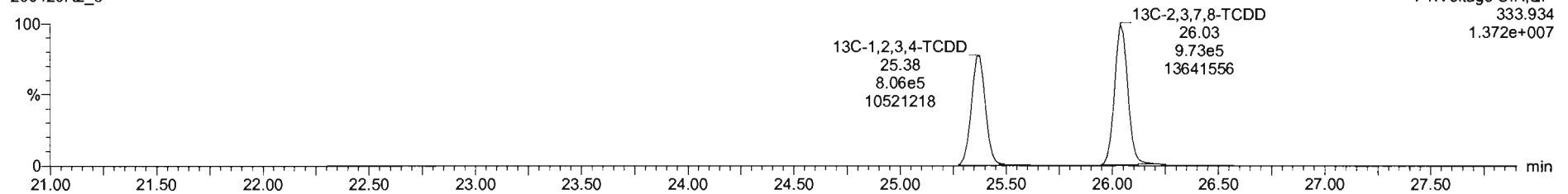


**13C-2,3,7,8-TCDD**

200429R2\_5



200429R2\_5



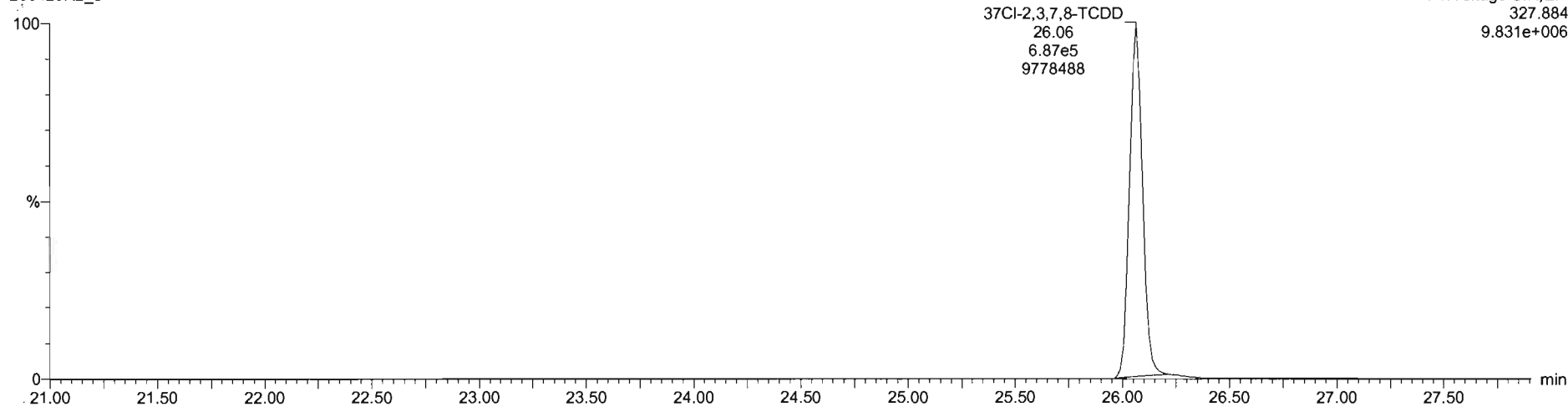
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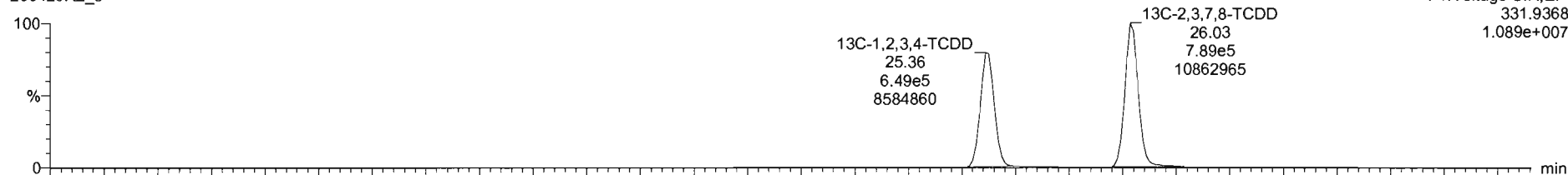
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200429R2\_5

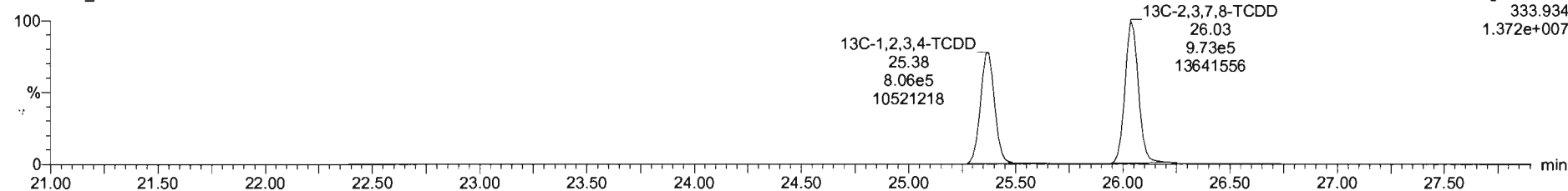


**13C-1,2,3,4-TCDD**

200429R2\_5



200429R2\_5





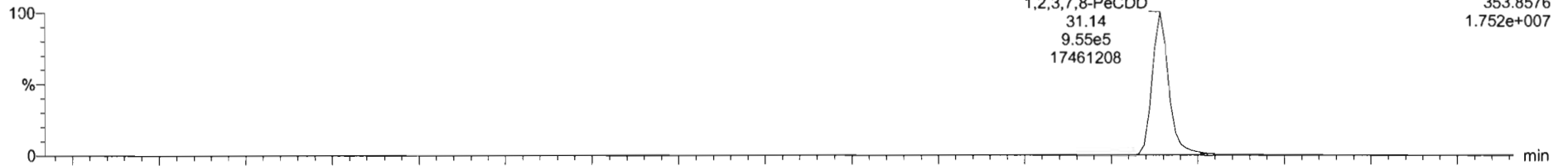
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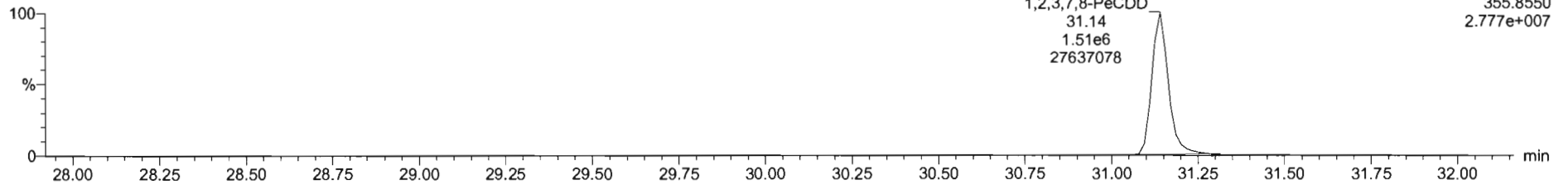
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**1,2,3,7,8-PeCDD**

200429R2\_5

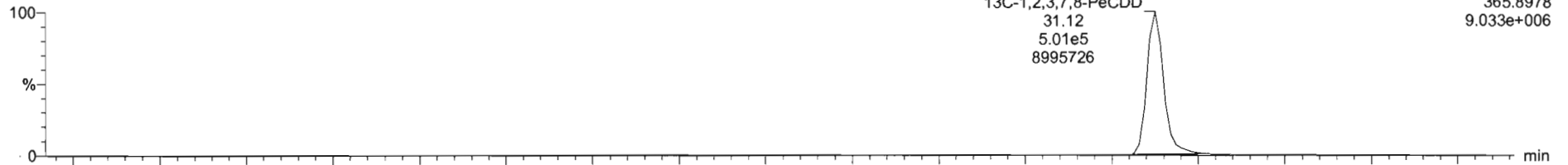


200429R2\_5

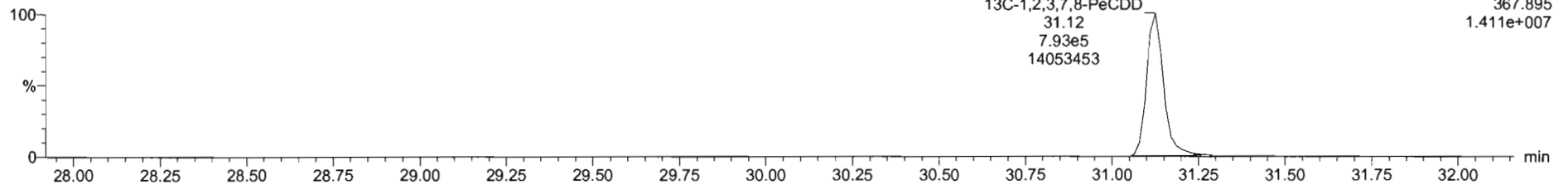


**<sup>13</sup>C-1,2,3,7,8-PeCDD**

200429R2\_5



200429R2\_5



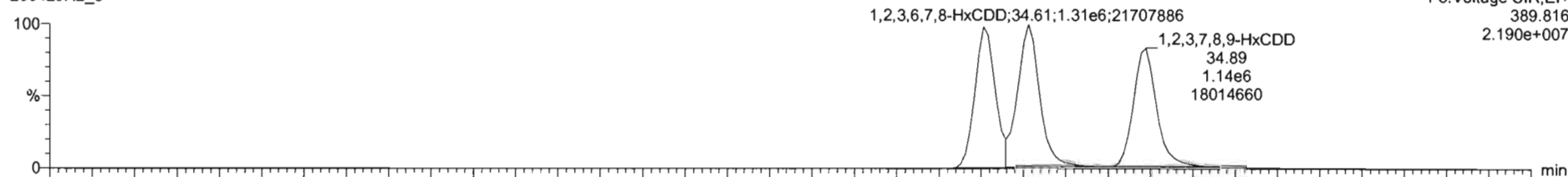
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2\_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

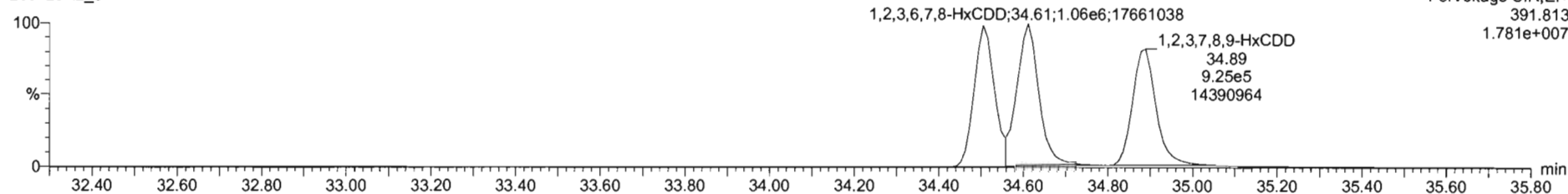
**1,2,3,4,7,8-HxCDD**

200429R2\_5



F3:Voltage SIR,EI+  
389.816  
2.190e+007

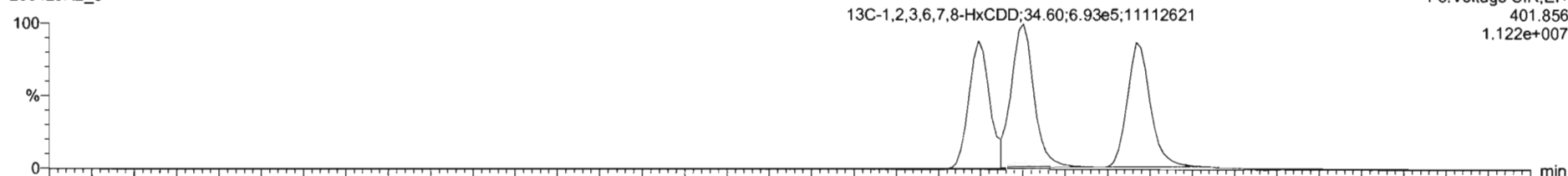
200429R2\_5



F3:Voltage SIR,EI+  
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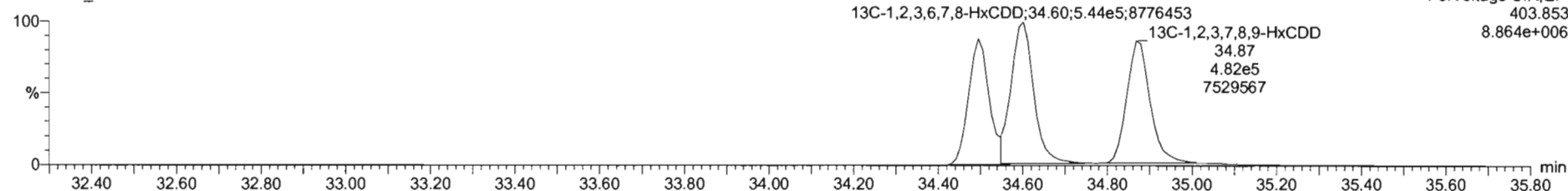
**13C-1,2,3,4,7,8-HxCDD**

200429R2\_5



F3:Voltage SIR,EI+  
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200429R2\_5



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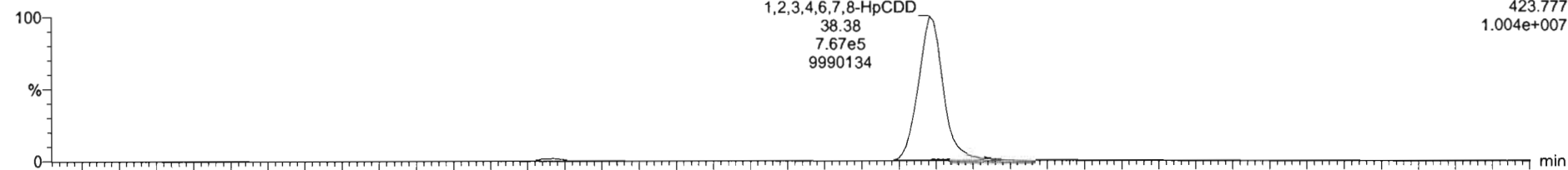
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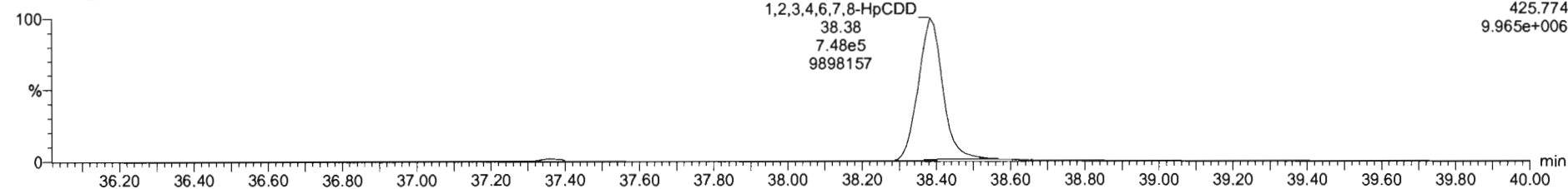
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**1,2,3,4,6,7,8-HpCDD**

200429R2\_5

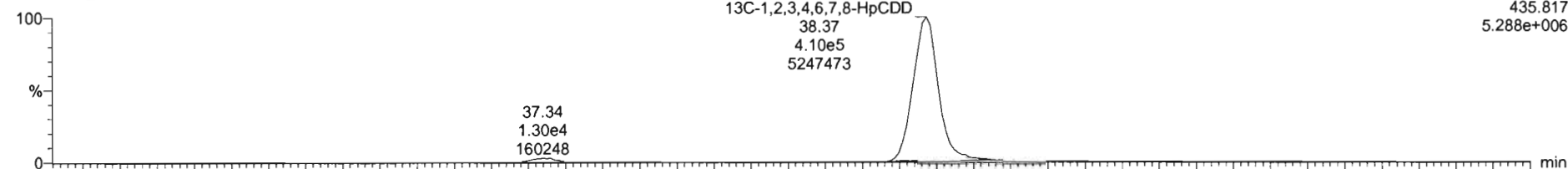


200429R2\_5

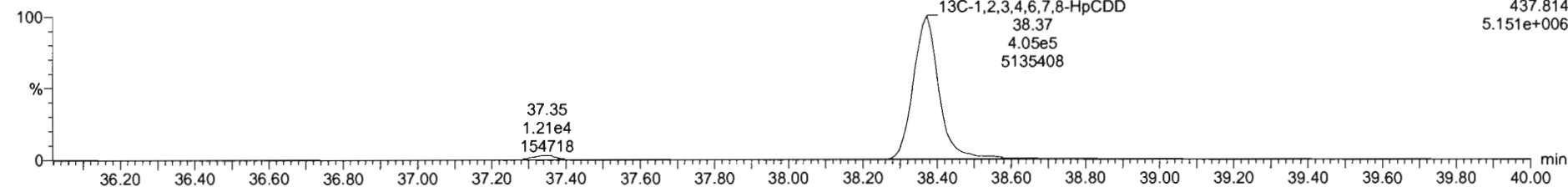


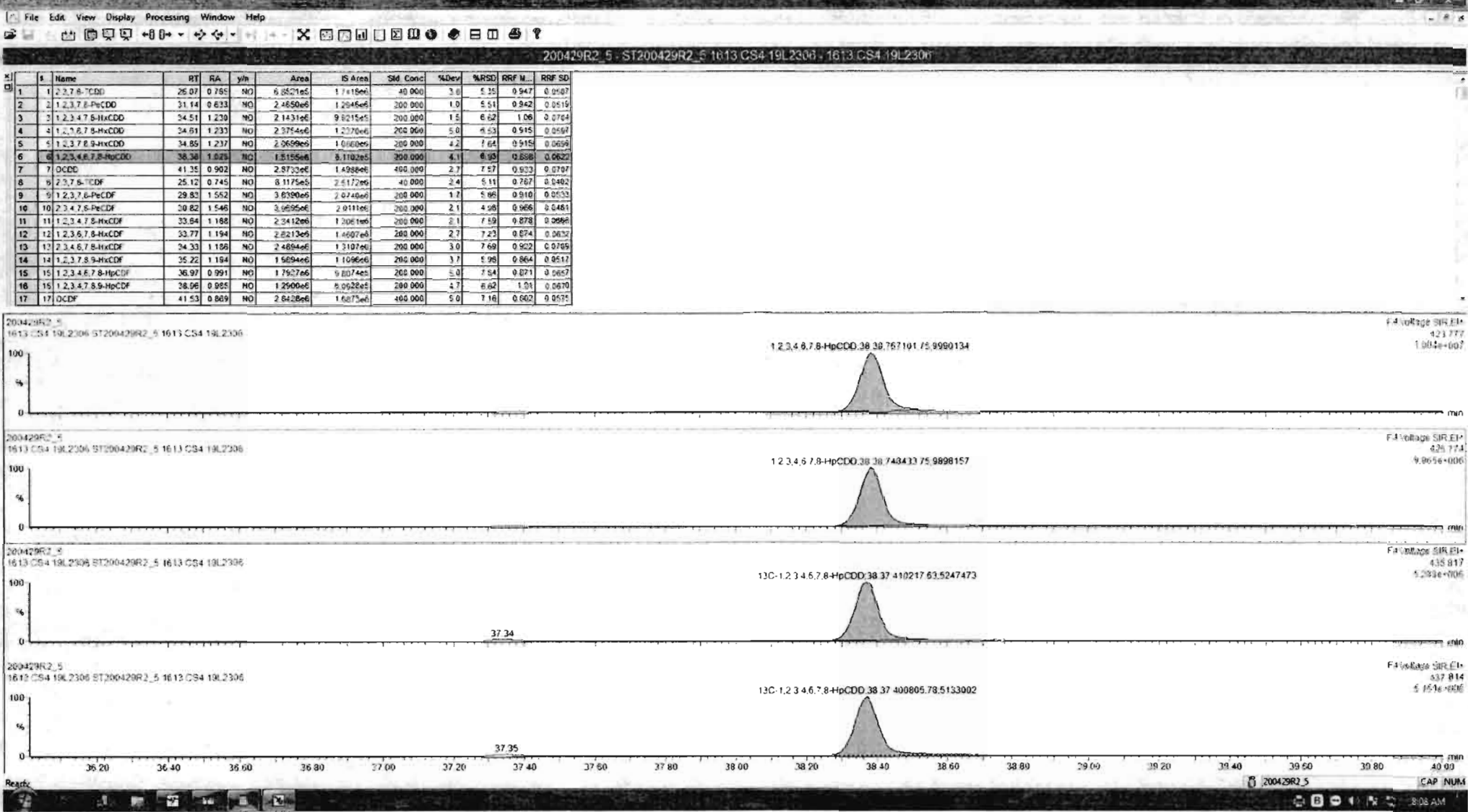
**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_5



200429R2\_5

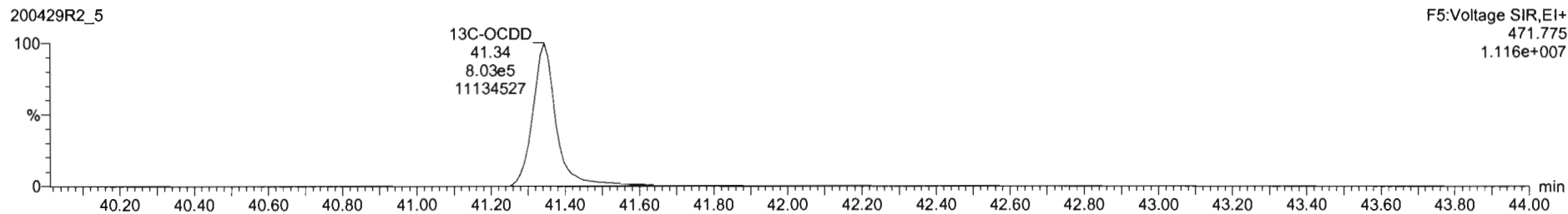
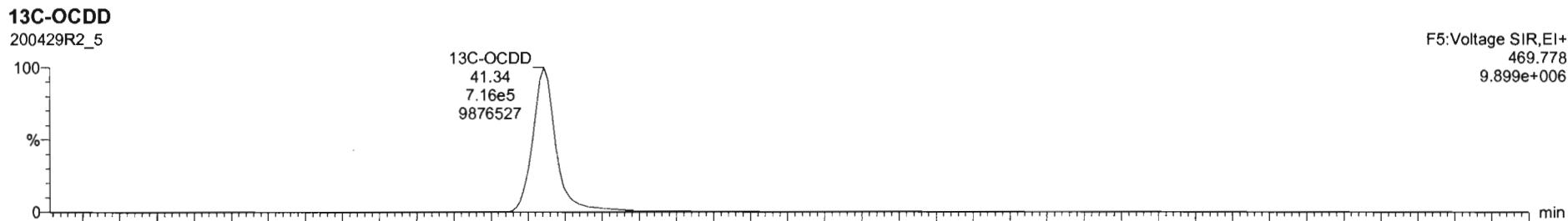
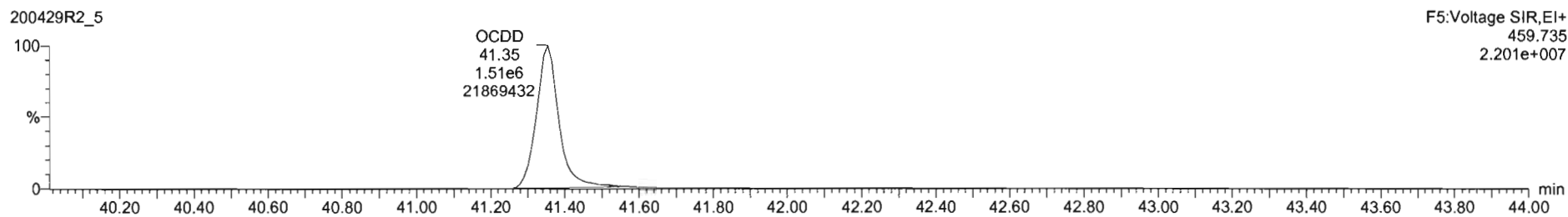
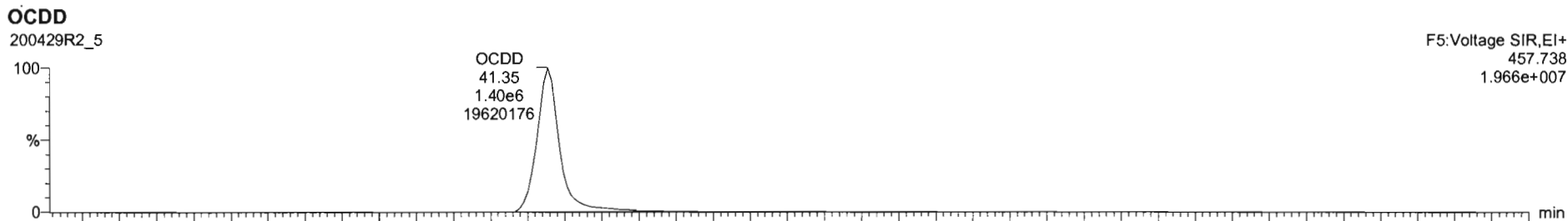




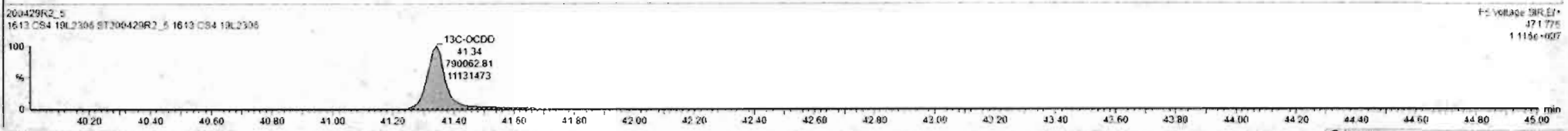
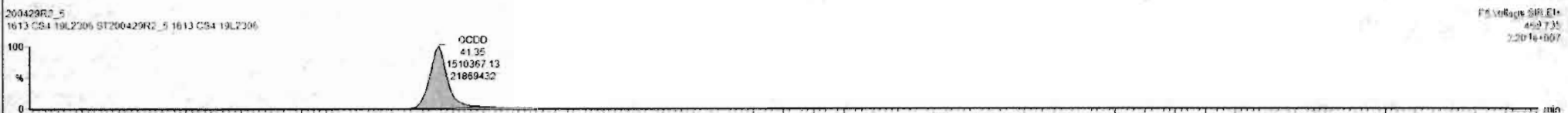
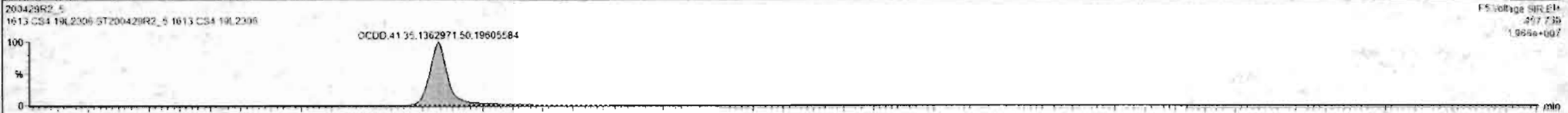
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2\_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	28.07	0.785	NO	6.6521e5	1.7418e6	40.000	2.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e5	1.2946e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.5215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.81	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.85	1.237	NO	2.0659e5	1.0860e5	200.000	4.2	7.64	0.915	0.0656
6	1,2,3,4,6,7,8-HpCDD	36.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	6.92	0.856	0.0520
7	OCDD	41.35	0.962	ND	2.8733e6	1.4889e6	400.000	2.7	7.57	0.833	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	8.1175e5	2.5172e6	40.000	2.4	5.11	0.767	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.546	NO	3.9655e6	2.0111e6	200.000	2.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.158	NO	2.3412e6	1.3061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.186	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	1.9654e6	1.1056e6	200.000	3.7	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7827e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.865	NO	1.2500e5	6.9528e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6673e6	400.000	5.0	7.16	0.802	0.0575



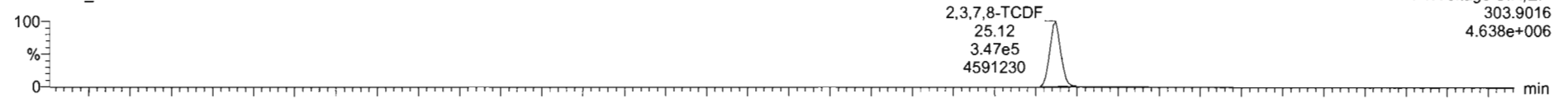
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time  
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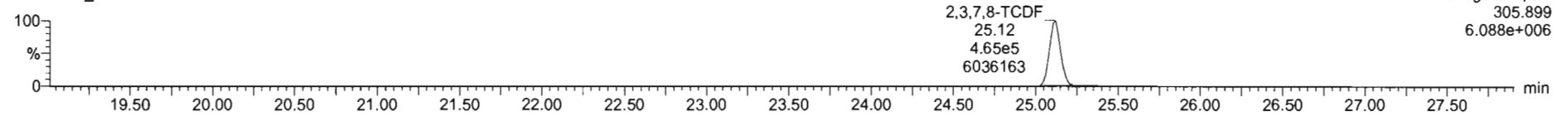
Name: 200429R2\_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2\_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200429R2\_5

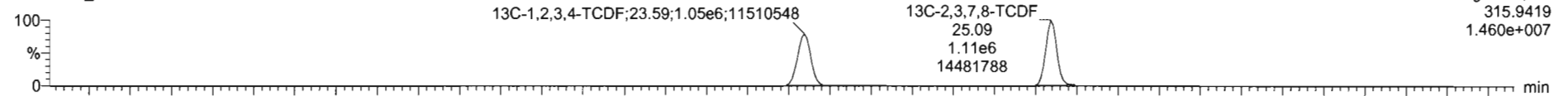


200429R2\_5

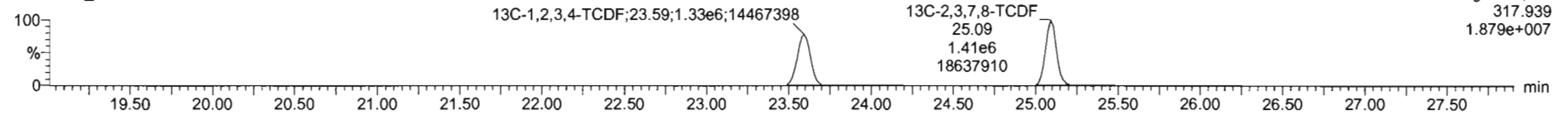


**13C-2,3,7,8-TCDF**

200429R2\_5

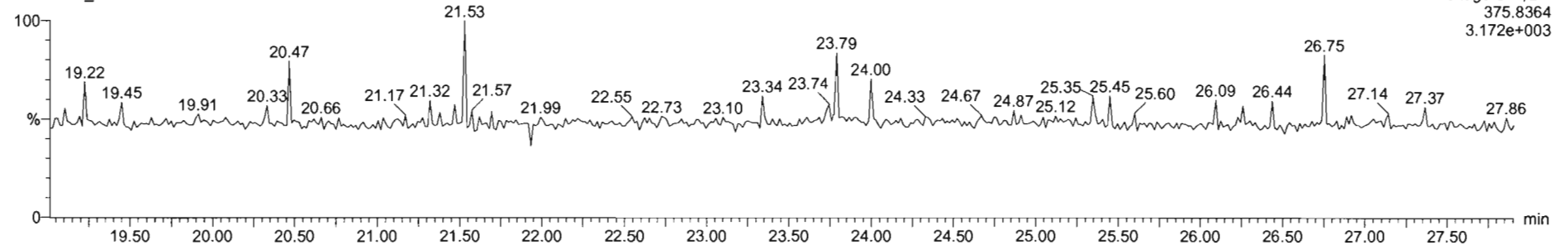


200429R2\_5



**DPE1**

200429R2\_5



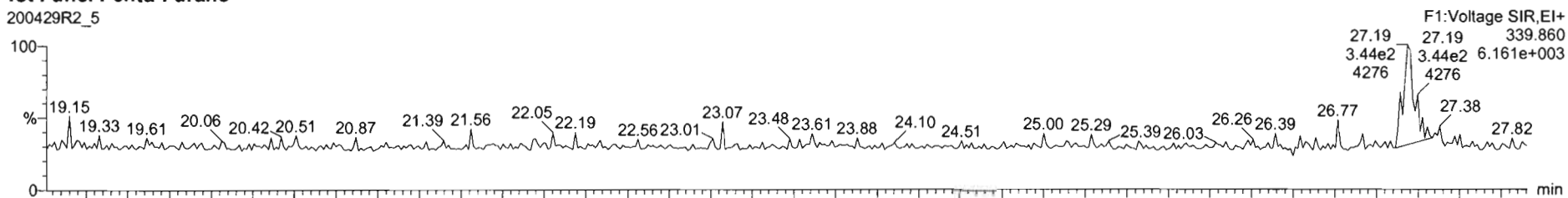
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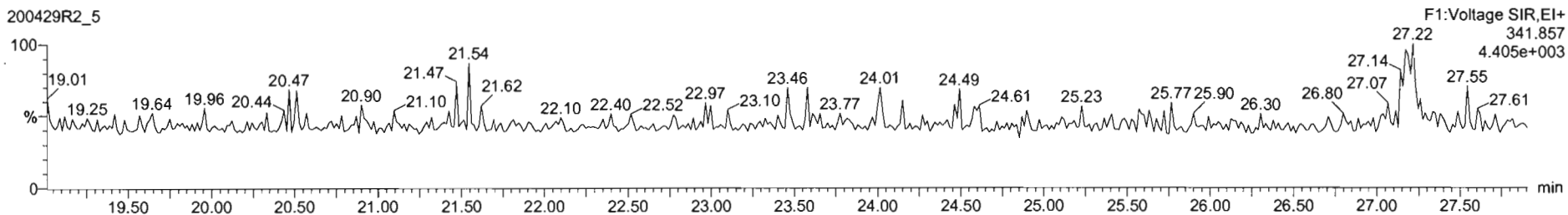
Name: 200429R2\_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2\_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans

200429R2\_5

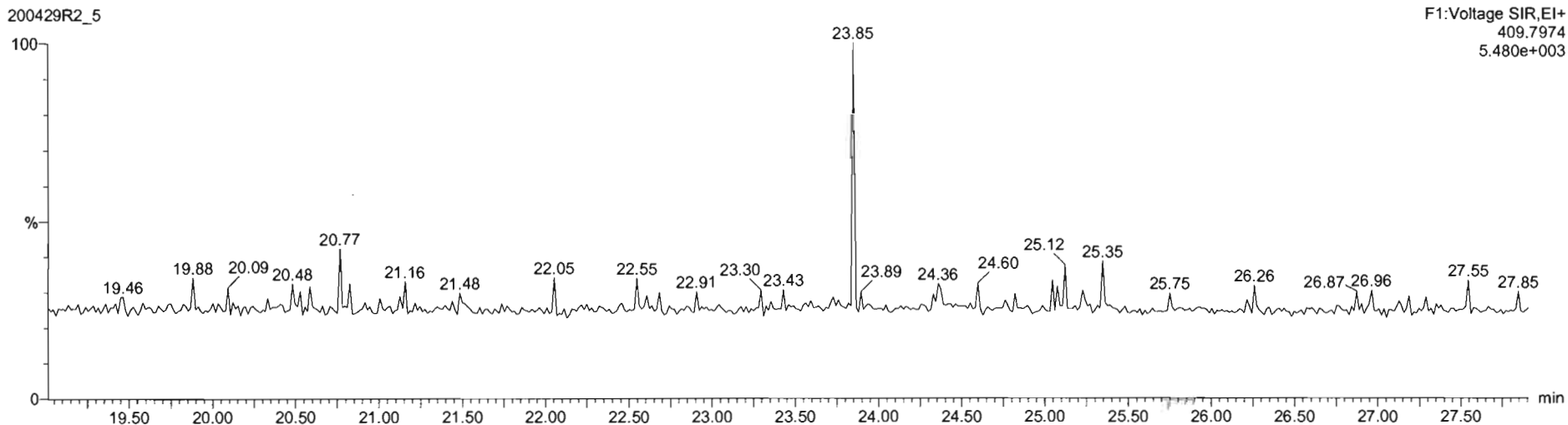


200429R2\_5



DPE6

200429R2\_5





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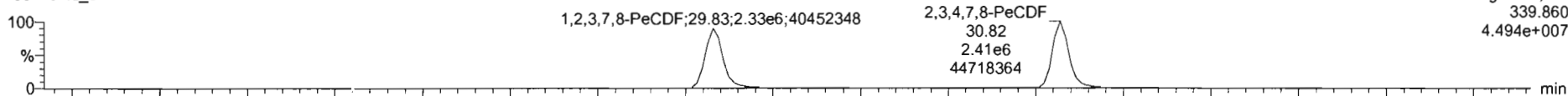
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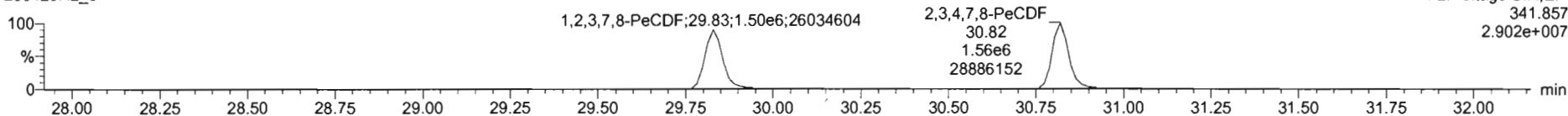
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**1,2,3,7,8-PeCDF**

200429R2\_5

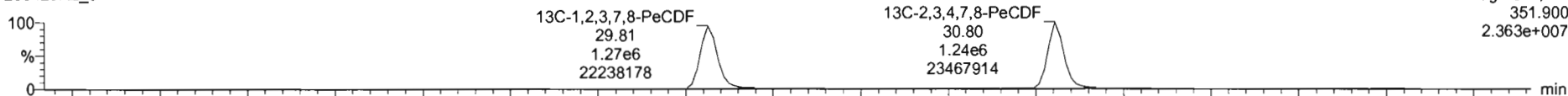


200429R2\_5

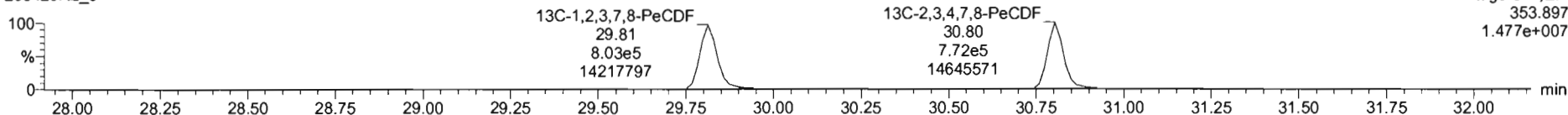


**13C-1,2,3,7,8-PeCDF**

200429R2\_5

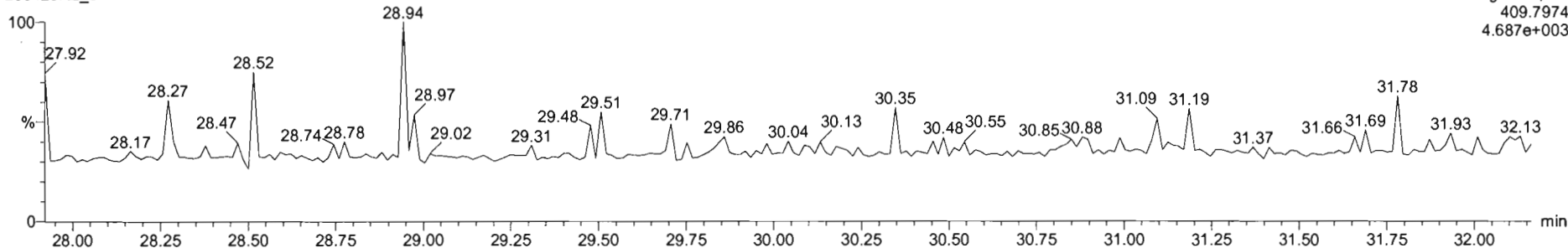


200429R2\_5



**DPE2**

200429R2\_5



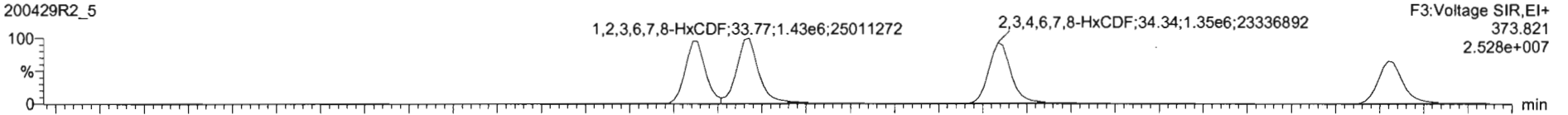
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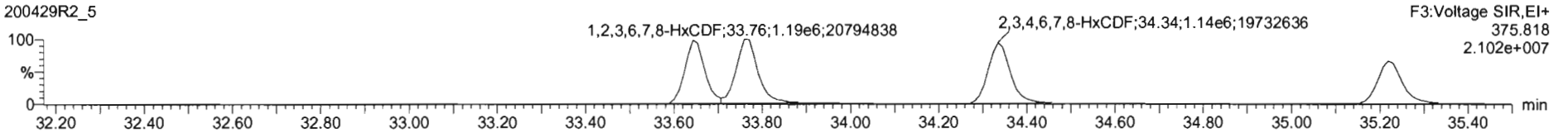
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**1,2,3,4,7,8-HxCDF**

200429R2\_5

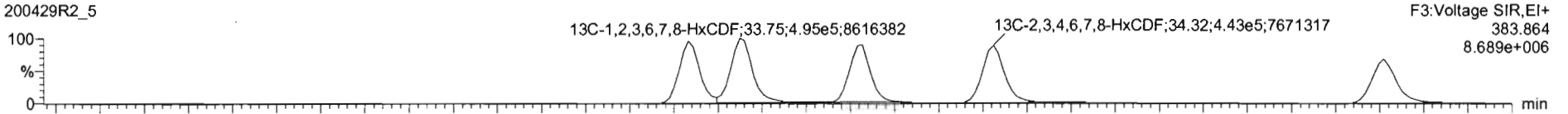


200429R2\_5

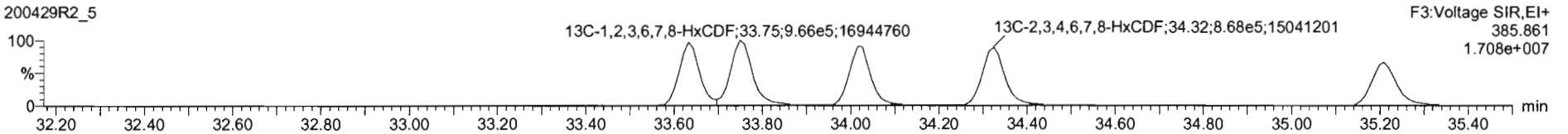


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_5

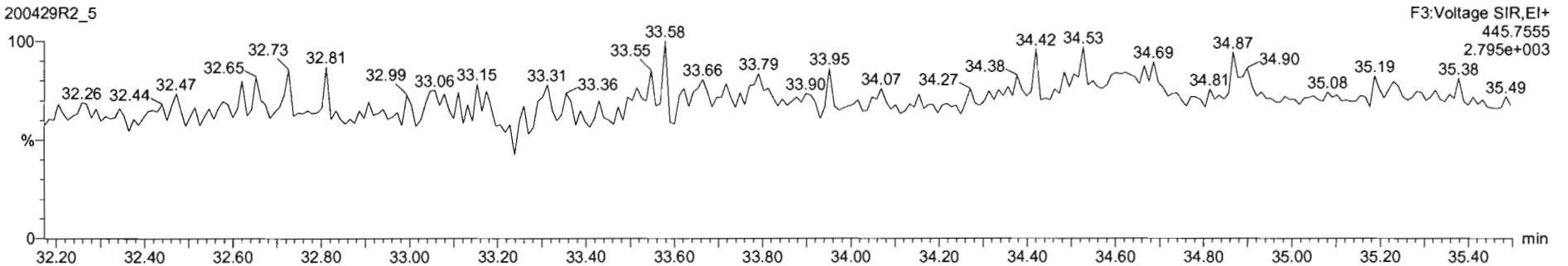


200429R2\_5

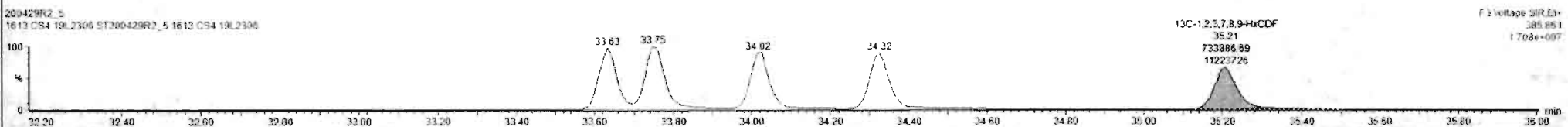
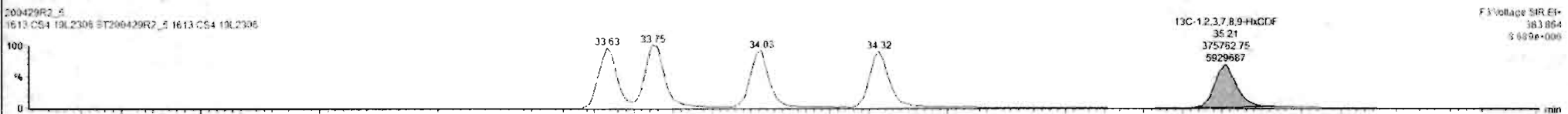


**DPE3**

200429R2\_5



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.785	NO	6.6521e5	1.7418e6	40.000	2.6	5.25	0.947	0.0597
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e6	1.2646e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.9215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.61	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.69	1.237	NO	2.0699e6	1.0860e6	200.000	4.2	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	8.93	0.896	0.0622
7	OCDD	41.35	0.902	NO	2.8733e6	1.4988e6	400.000	2.7	7.57	0.933	0.0767
8	1,2,3,7,8-TCDF	25.12	0.745	NO	3.1175e5	2.5172e5	40.000	2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0523
10	1,2,3,4,7,8-PeCDF	30.82	1.546	NO	3.9695e6	2.0111e6	200.000	2.1	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.188	NO	2.3412e6	1.2061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.196	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	4.9084e6	1.1096e6	200.000	3.7	5.38	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7937e6	9.8074e5	200.000	5.0	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.885	NO	1.2900e6	6.6628e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6675e6	400.000	5.0	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

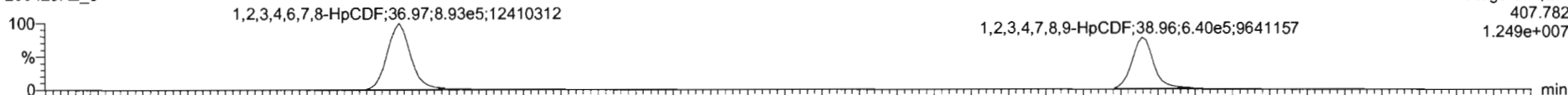
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

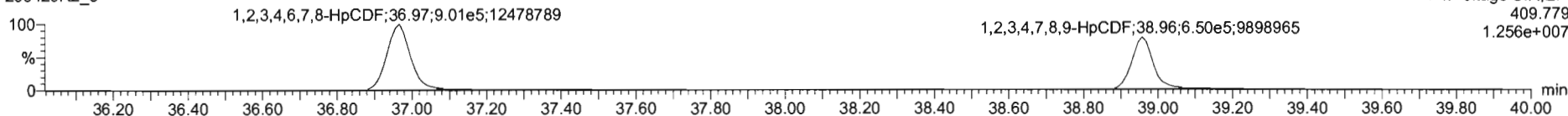
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_5

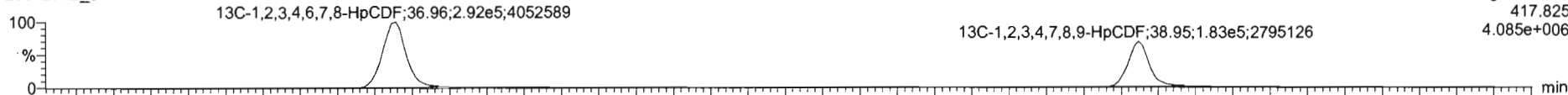


200429R2\_5

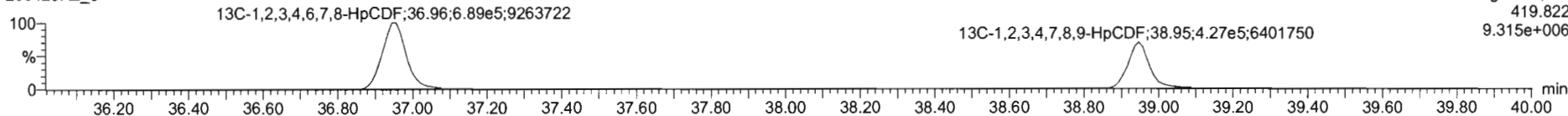


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_5

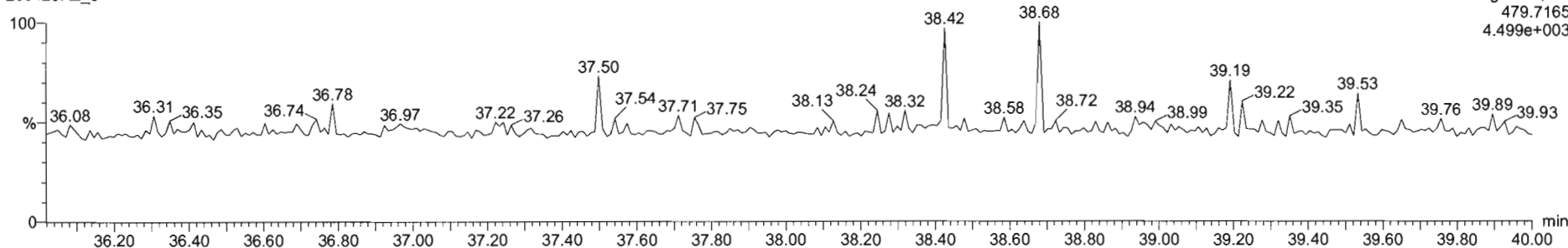


200429R2\_5



**DPE4**

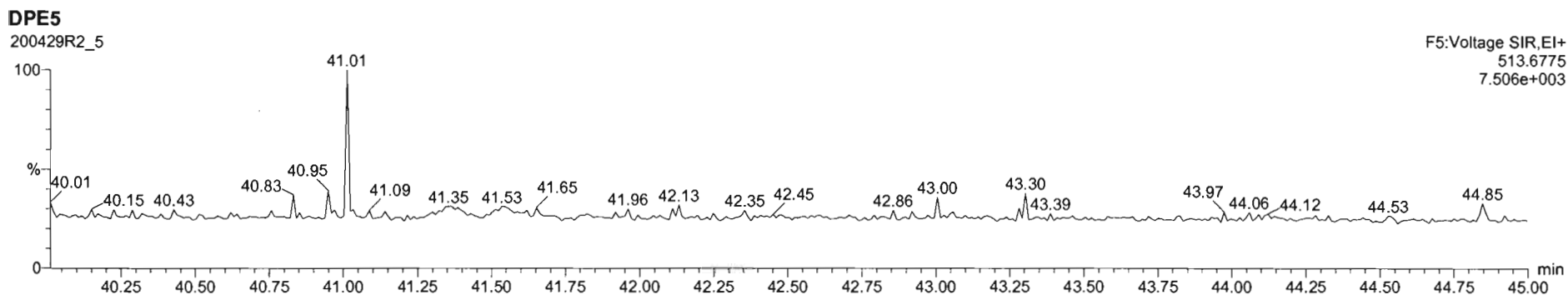
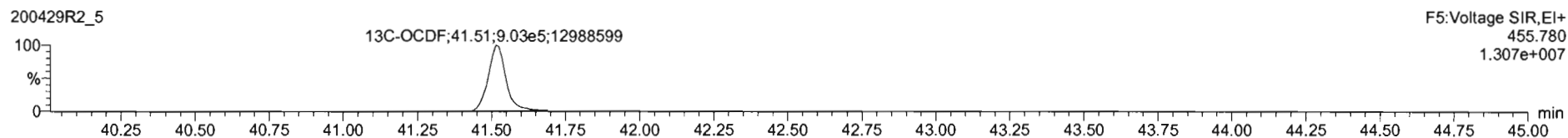
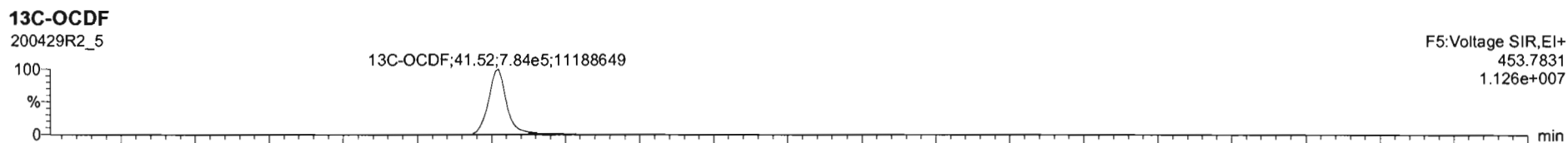
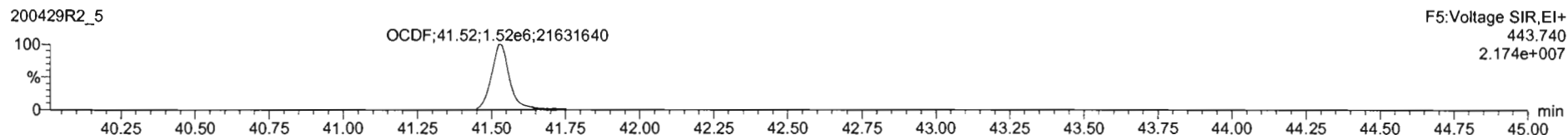
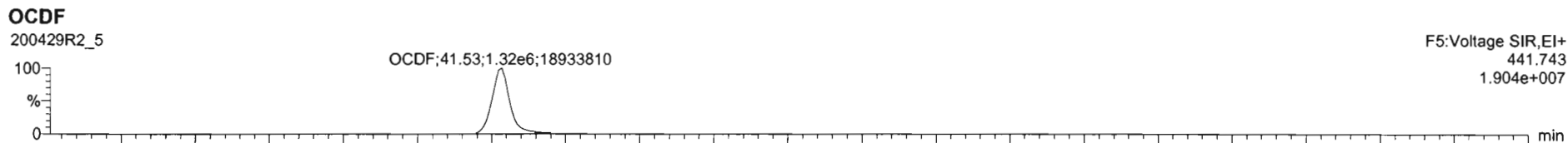
200429R2\_5



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

Name: 200429R2\_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2\_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

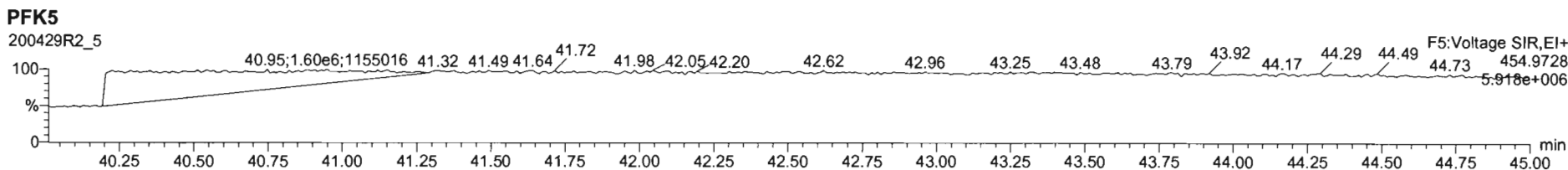
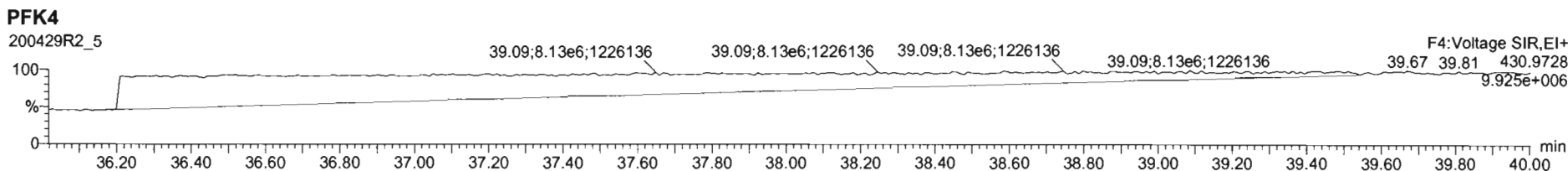
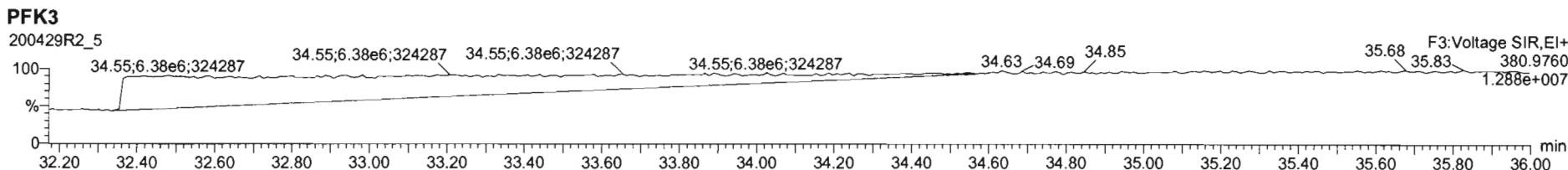
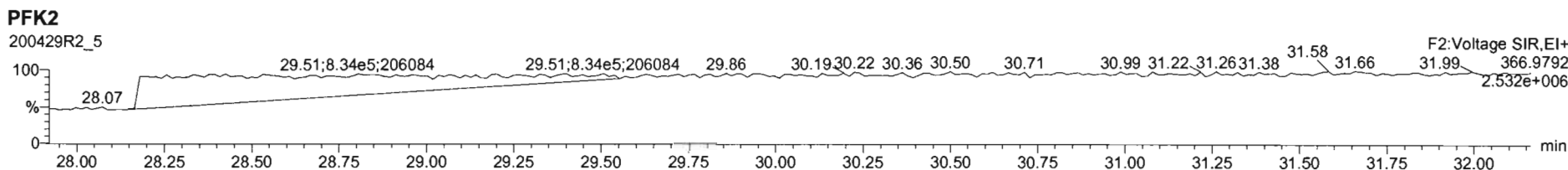
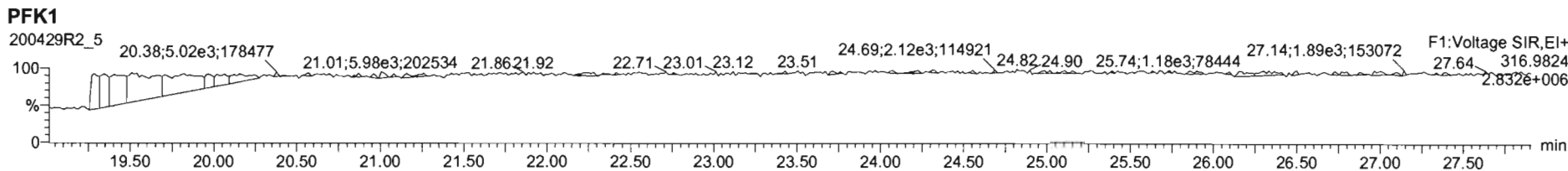


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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2\_5, Date: 29-Apr-2020, Time: 16:35:58, ID: ST200429R2\_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306



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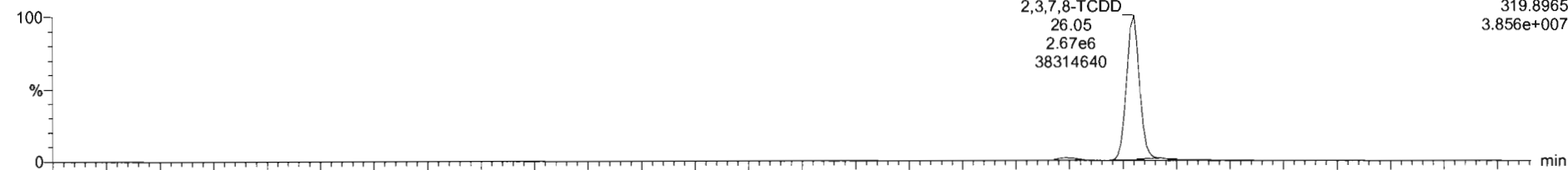
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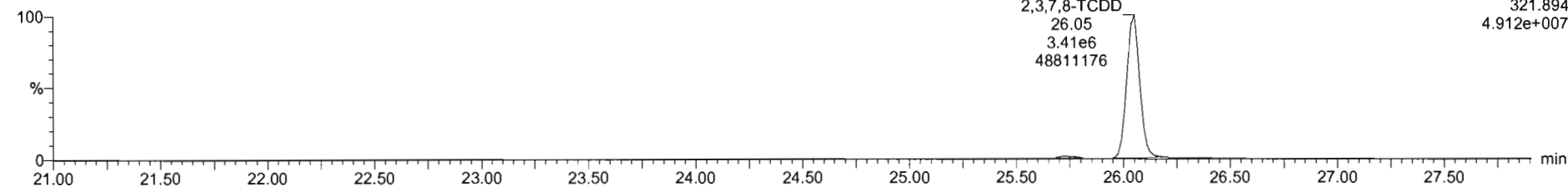
Name: 200429R2\_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2\_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200429R2\_6

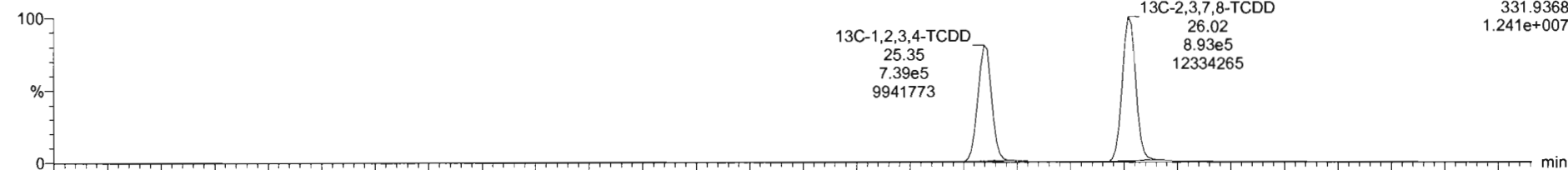


200429R2\_6

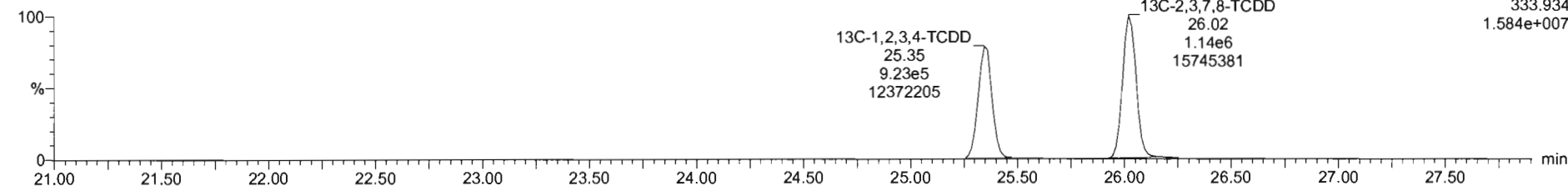


**13C-2,3,7,8-TCDD**

200429R2\_6



200429R2\_6



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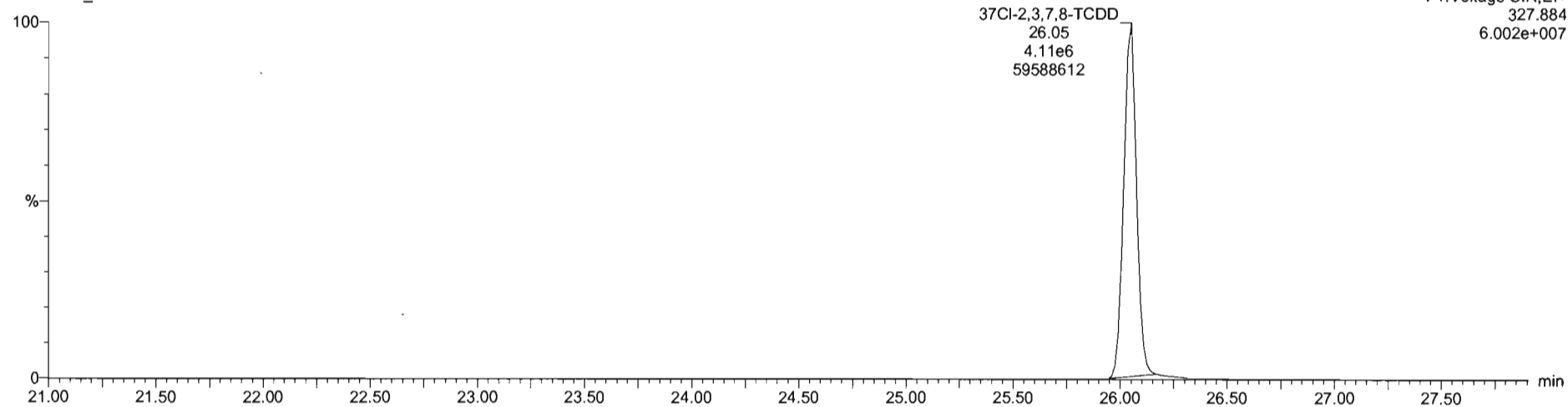
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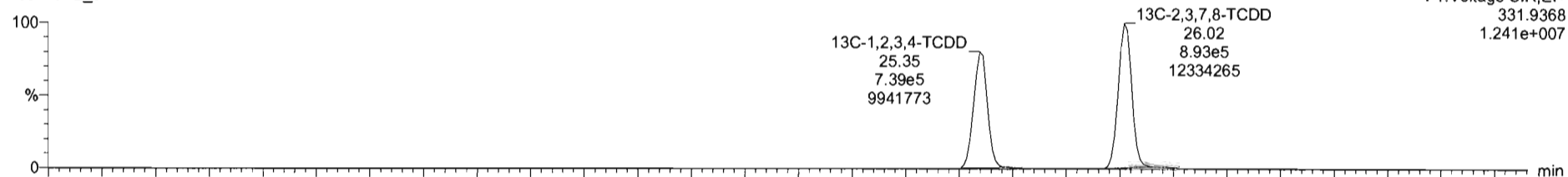
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200429R2\_6

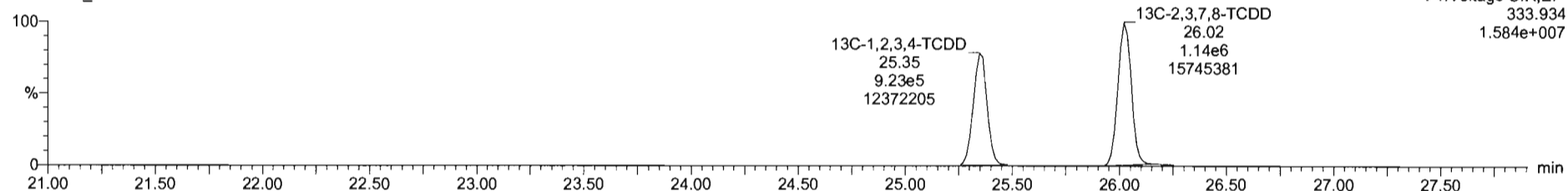


**13C-1,2,3,4-TCDD**

200429R2\_6



200429R2\_6





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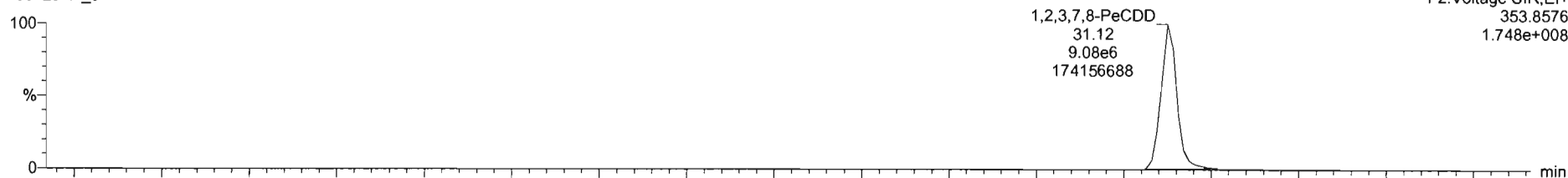
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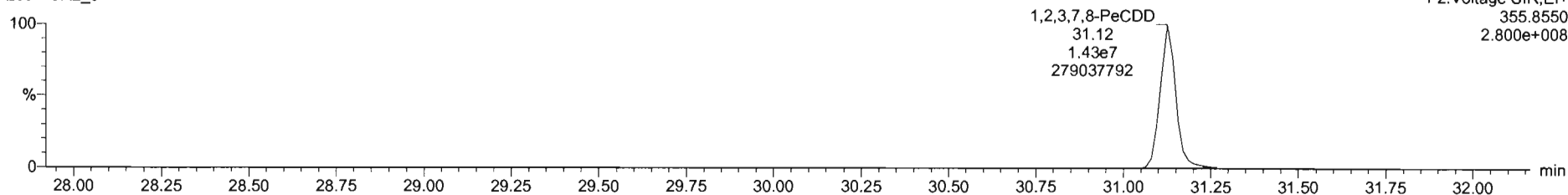
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**1,2,3,7,8-PeCDD**

200429R2\_6

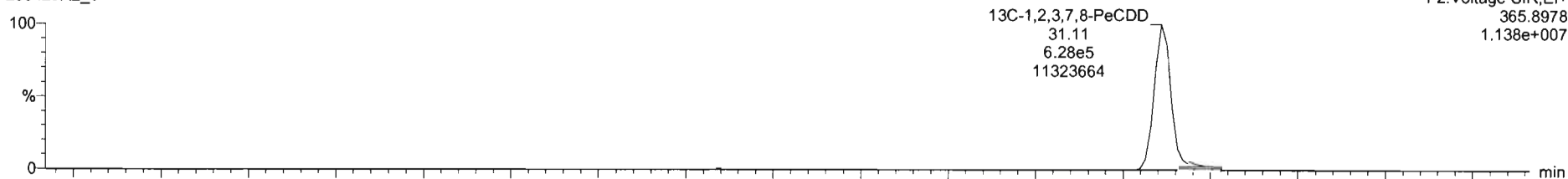


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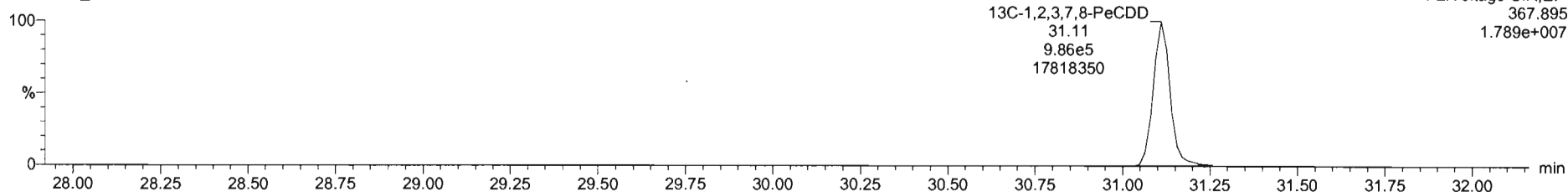


**13C-1,2,3,7,8-PeCDD**

200429R2\_6



200429R2\_6



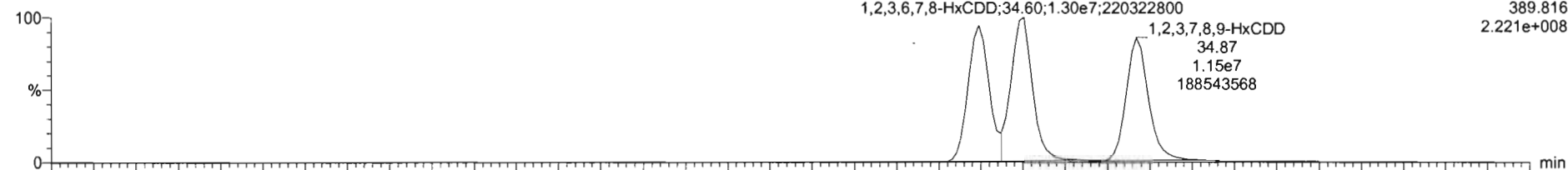
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Name: 200429R2\_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2\_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

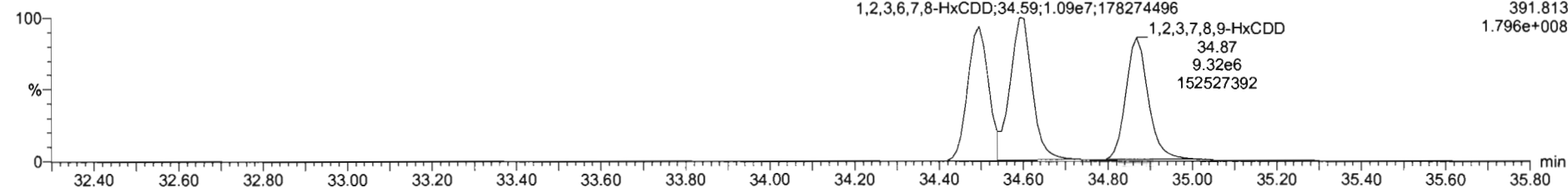
**1,2,3,4,7,8-HxCDD**

200429R2\_6



F3:Voltage SIR,EI+  
389.816  
2.221e+008

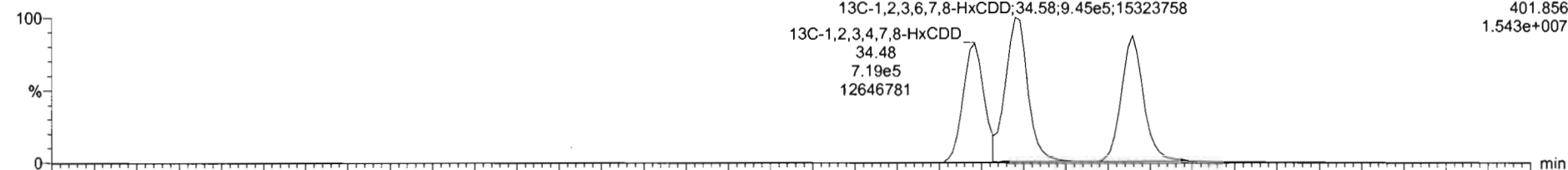
200429R2\_6



F3:Voltage SIR,EI+  
391.813  
1.796e+008

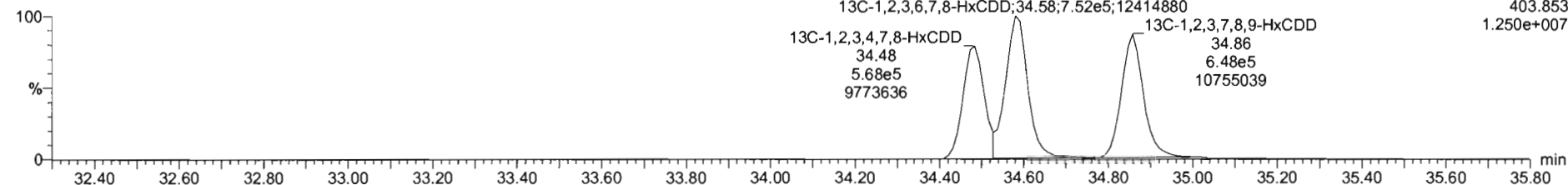
**13C-1,2,3,4,7,8-HxCDD**

200429R2\_6



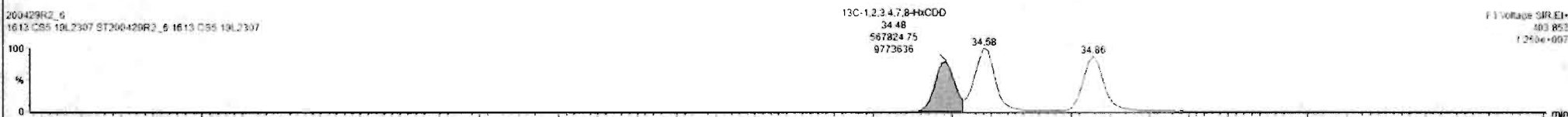
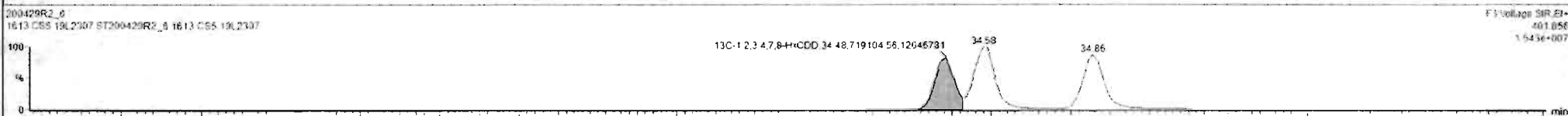
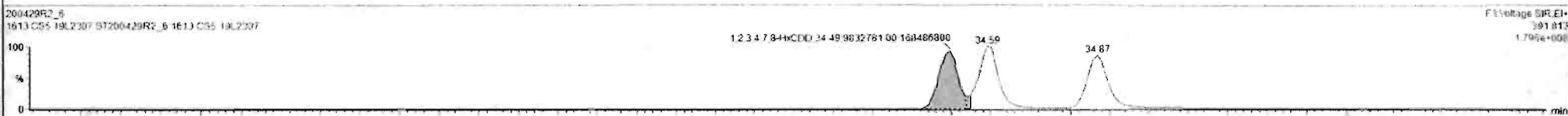
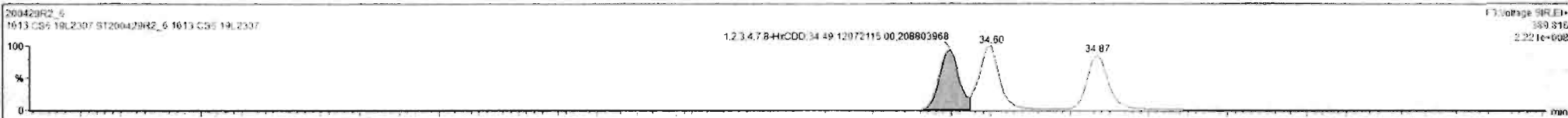
F3:Voltage SIR,EI+  
401.856  
1.543e+007

200429R2\_6



F3:Voltage SIR,EI+  
403.853  
1.250e+007

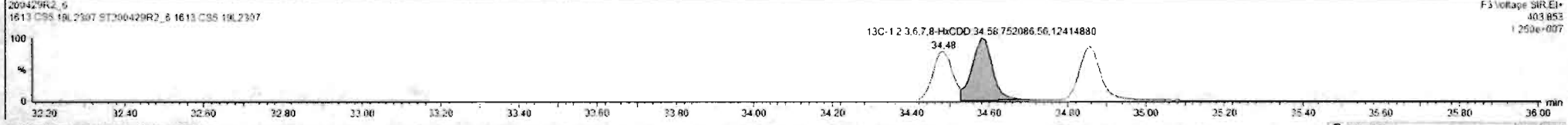
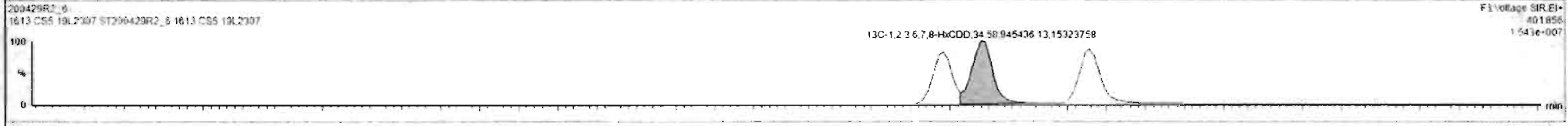
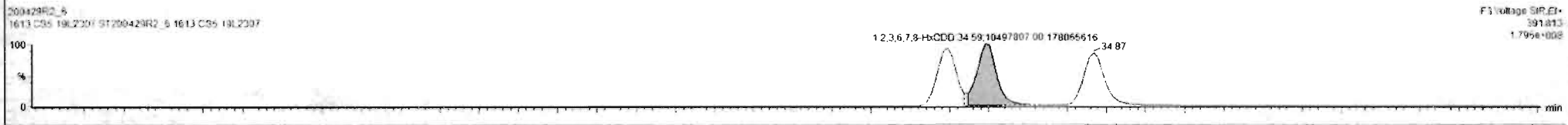
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.05	0.784	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.48	1.228	NO	2.1905e7	1.2269e6	1000.000	6.6	6.62	1.08	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.213	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1280e6	1500.000	5.6	8.92	0.956	0.0622
7	OCDD	41.34	0.887	NO	3.3871e7	2.3135e6	2000.000	4.8	7.57	0.633	0.0707
8	2,3,7,8-TCDF	25.05	0.753	NO	7.1946e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.560	NO	3.5628e7	2.5822e6	1500.000	1.5	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.189	NO	2.3482e7	1.7670e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9813e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.8927e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.94	0.991	NO	1.4705e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.867	NO	2.3638e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2\_6 CAP NUM

#	Name	RT	RA	yht	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.764	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.9507
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.9519
3	1,2,3,4,7,8-HxCDD	34.49	1.228	NO	2.1905e7	1.2669e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3489e7	1.6075e6	1500.000	0.8	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.67	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.37	1.019	NO	1.6010e7	1.1360e6	1500.000	5.6	6.93	0.896	0.0622
7	OCDD	41.34	0.887	NO	3.3271e7	2.3135e6	3000.000	4.8	7.57	0.933	0.0707
8	1,2,7,8-TCDF	25.05	0.753	NO	7.1948e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5938e7	2.5822e6	1500.000	1.9	5.86	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.81	1.542	NO	3.6618e7	3.5077e6	1500.000	0.7	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.63	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9613e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.6927e7	1.2725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.94	0.993	NO	1.4205e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.887	NO	2.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



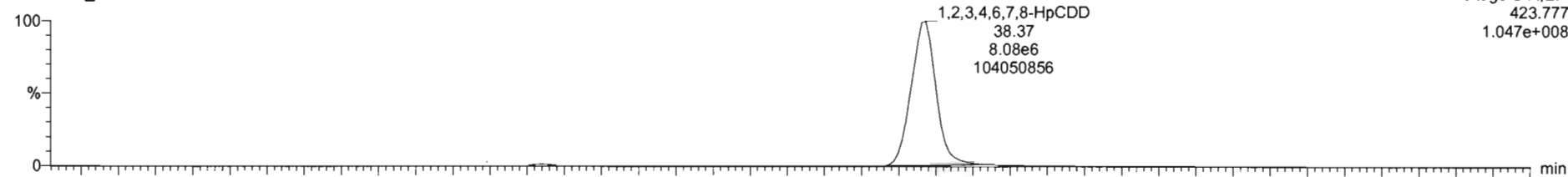
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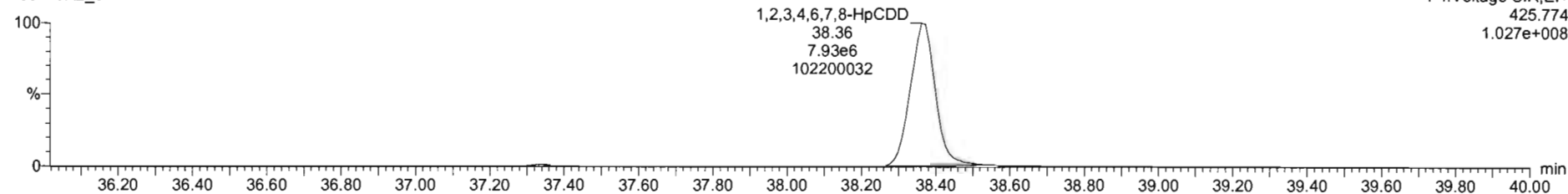
**1,2,3,4,6,7,8-HpCDD**

200429R2\_6



F4:Voltage SIR,EI+  
423.777  
1.047e+008

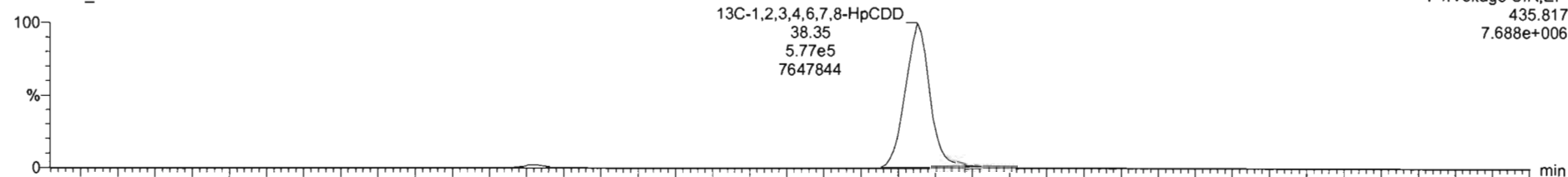
200429R2\_6



F4:Voltage SIR,EI+  
425.774  
1.027e+008

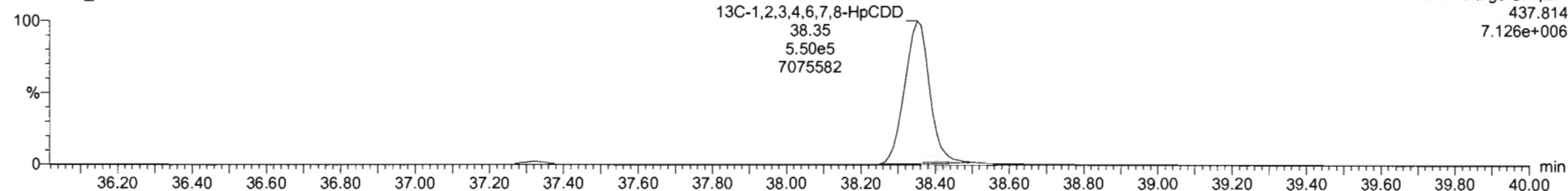
**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_6



F4:Voltage SIR,EI+  
435.817  
7.688e+006

200429R2\_6



F4:Voltage SIR,EI+  
437.814  
7.126e+006

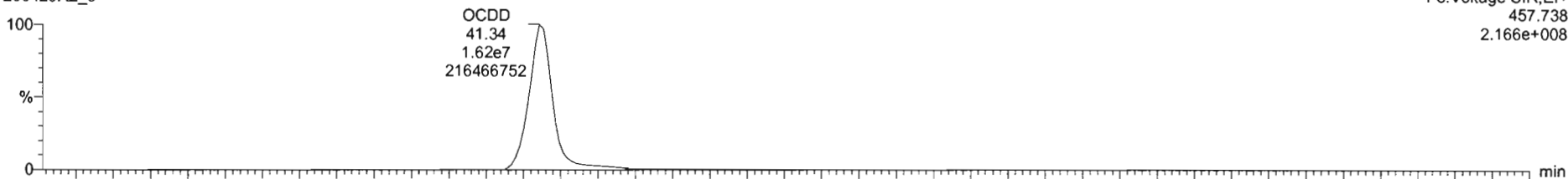
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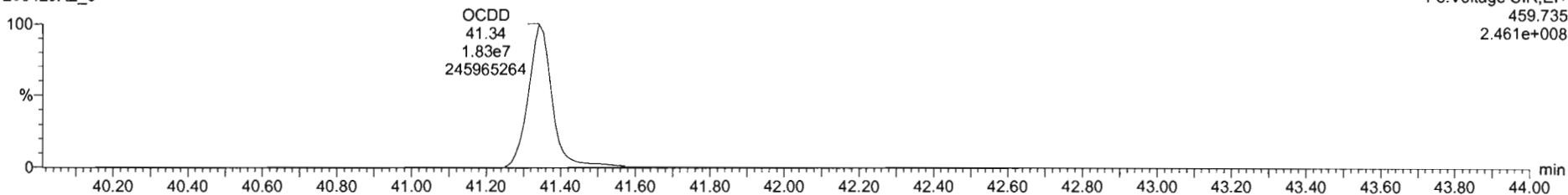
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**OCDD**

200429R2\_6

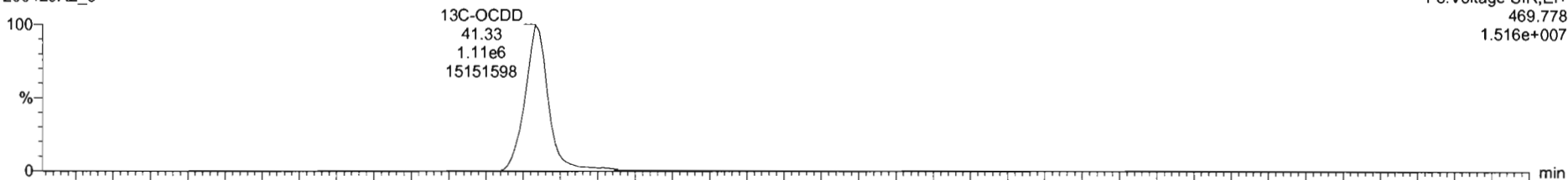


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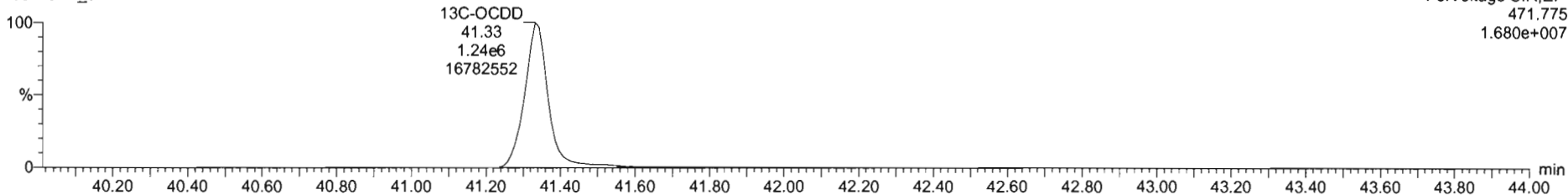


**13C-OCDD**

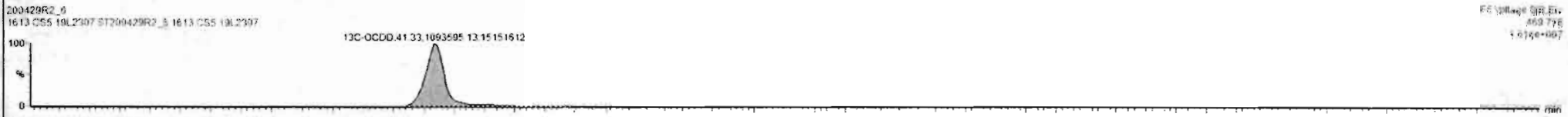
200429R2\_6



200429R2\_6



#	Name	RT	RA	Y/N	Area	IS Area	Std Conc	%Dev	%RSD	RRF U...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.754	NO	6.0624e6	2.0210e6	300.000	5.4	5.15	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.642	0.0519
3	1,2,3,4,7,8-HxCDD	34.43	1.220	NO	2.1905e7	1.2869e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.916	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1260e6	1500.000	5.6	6.93	0.656	0.0422
7	OCDD	41.34	0.697	NO	3.3671e7	2.3135e6	3000.000	4.6	7.57	0.933	0.0767
8	2,2,7,8-TCDF	25.09	0.753	NO	7.1646e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5528e7	2.5822e6	1500.000	1.9	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.85	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.63	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.195	NO	1.9612e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.8627e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.54	0.993	NO	1.4305e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.667	NO	3.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



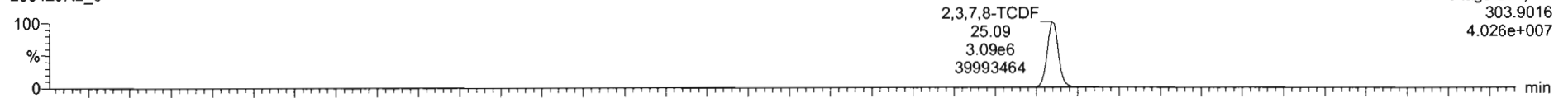
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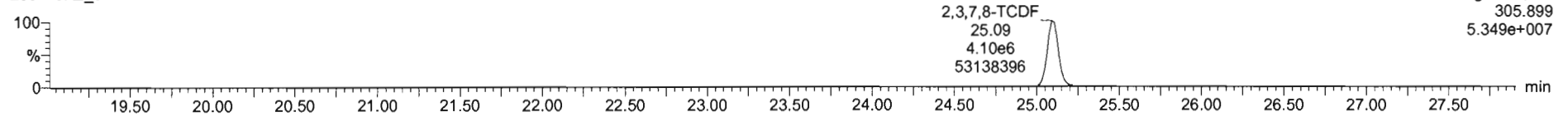
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**2,3,7,8-TCDF**

200429R2\_6

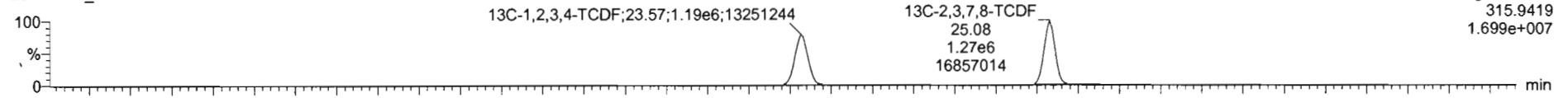


200429R2\_6

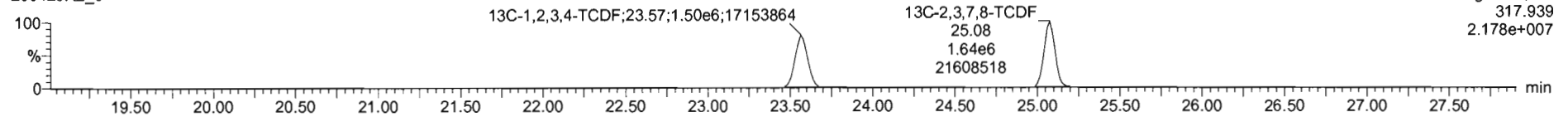


**13C-2,3,7,8-TCDF**

200429R2\_6

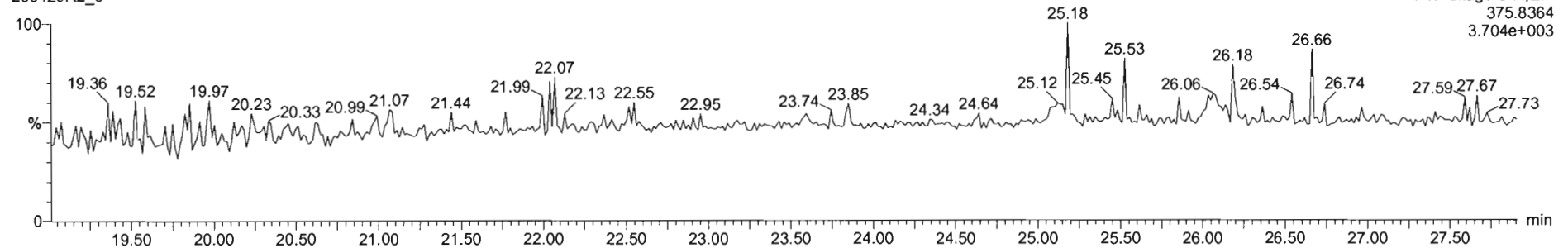


200429R2\_6



**DPE1**

200429R2\_6





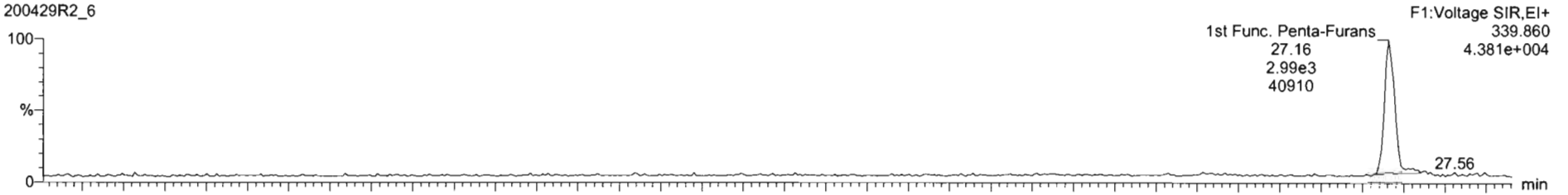
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

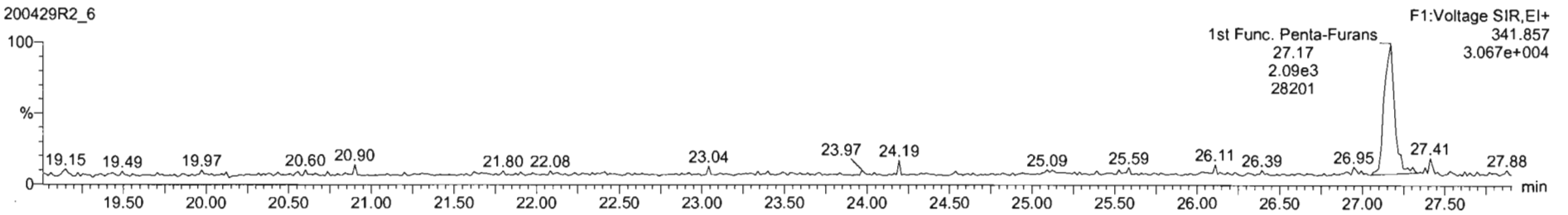
Name: 200429R2\_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2\_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

1st Func. Penta-Furans

200429R2\_6

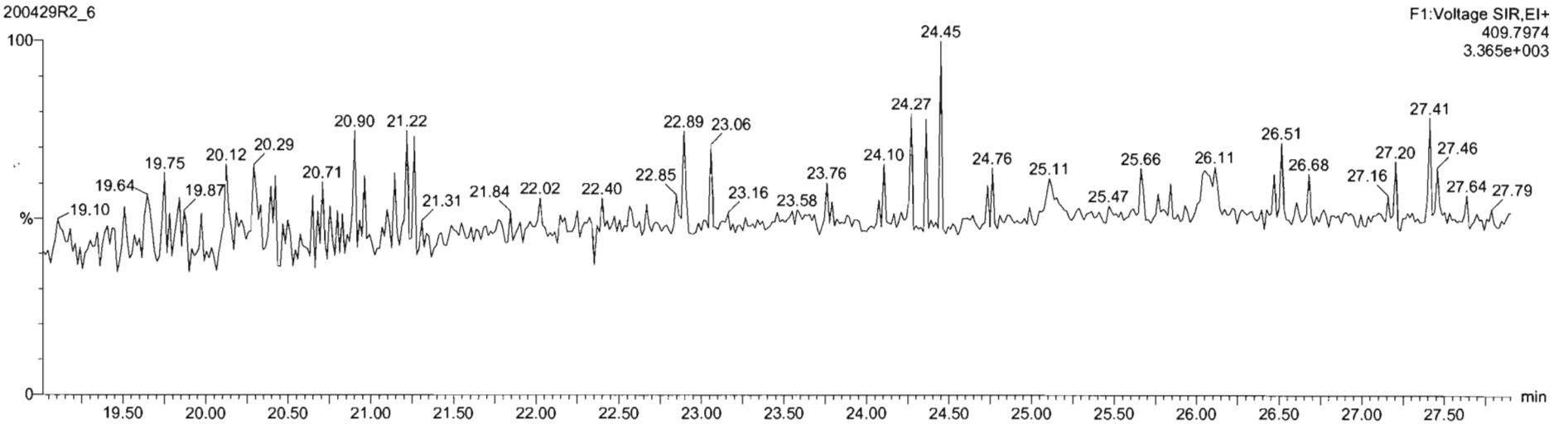


200429R2\_6



DPE6

200429R2\_6



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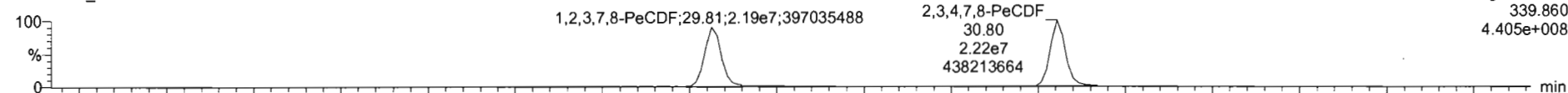
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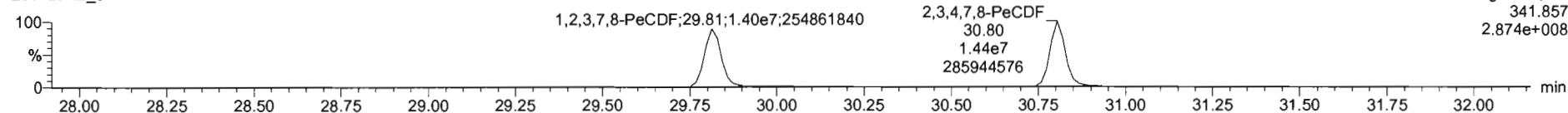
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**1,2,3,7,8-PeCDF**

200429R2\_6

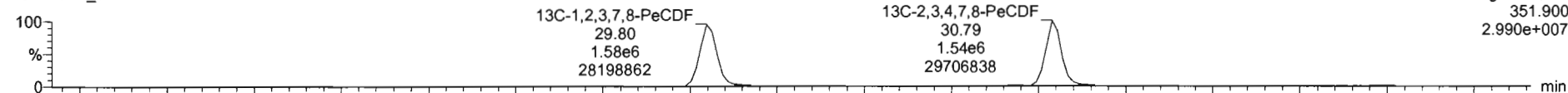


200429R2\_6

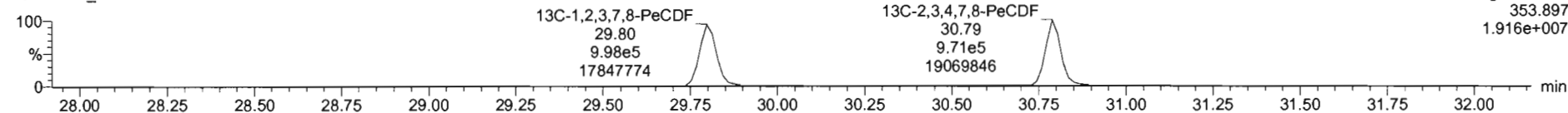


**13C-1,2,3,7,8-PeCDF**

200429R2\_6

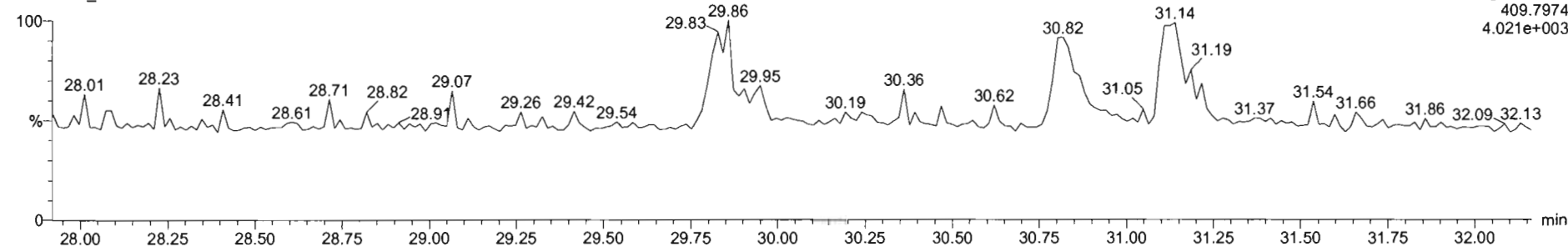


200429R2\_6



**DPE2**

200429R2\_6



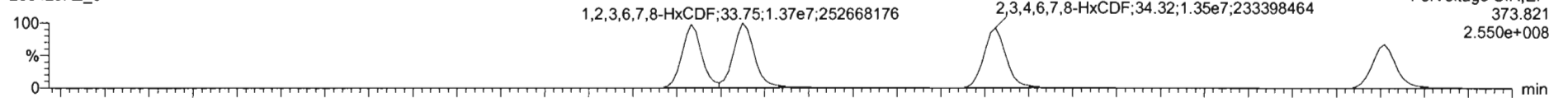
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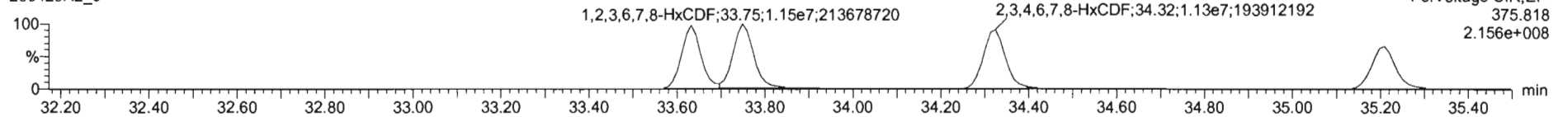
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**1,2,3,4,7,8-HxCDF**

200429R2\_6

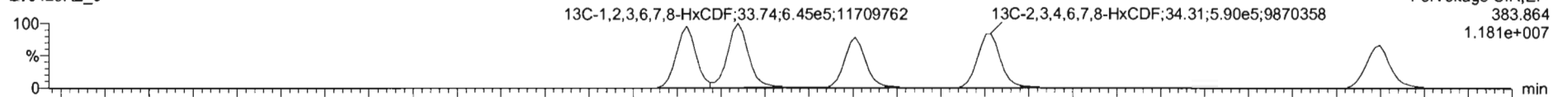


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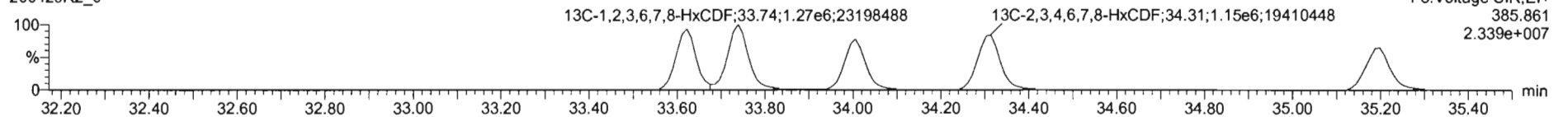


**13C-1,2,3,4,7,8-HxCDF**

200429R2\_6

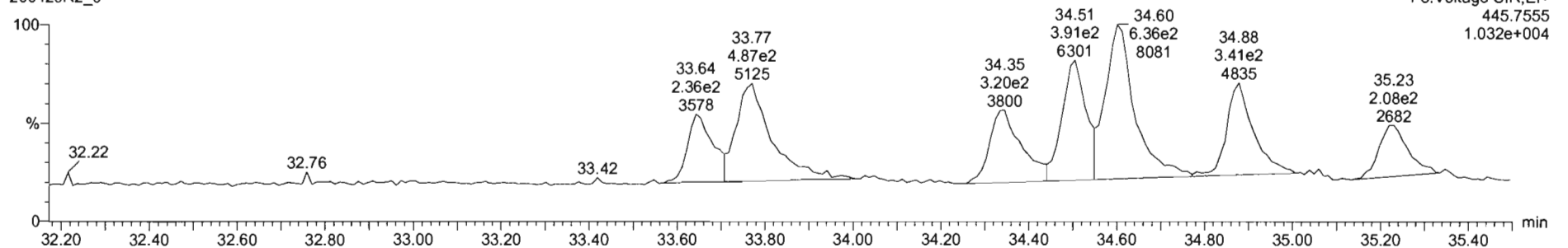


200429R2\_6



**DPE3**

200429R2\_6



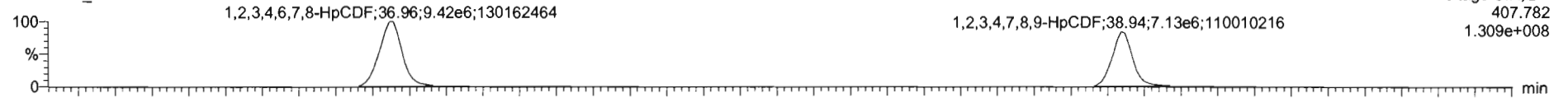
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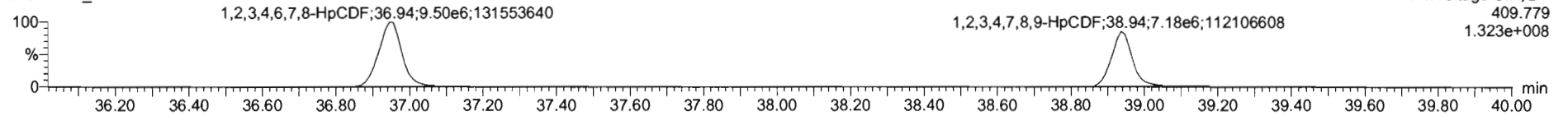
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_6

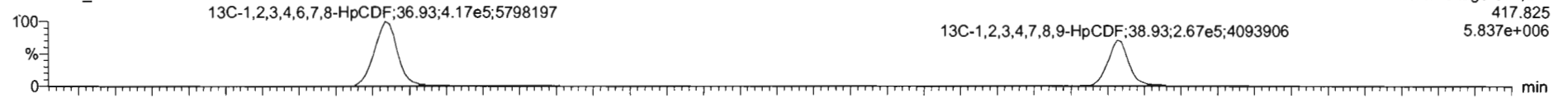


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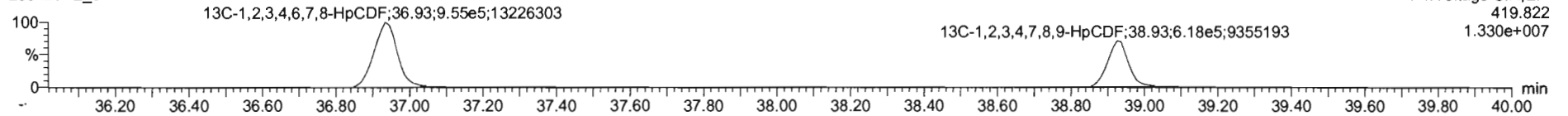


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_6

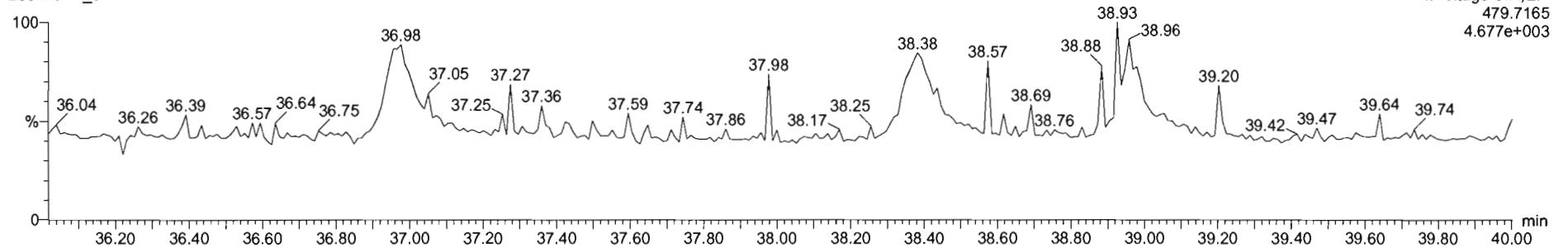


200429R2\_6



**DPE4**

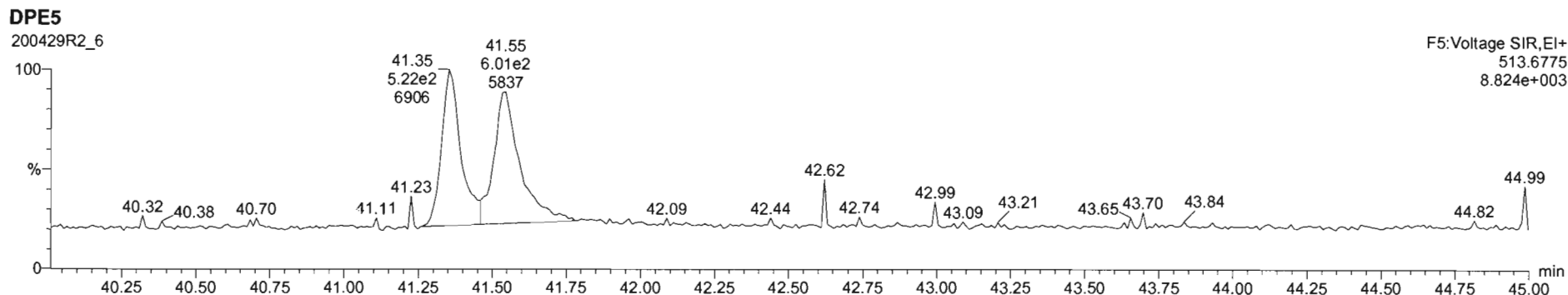
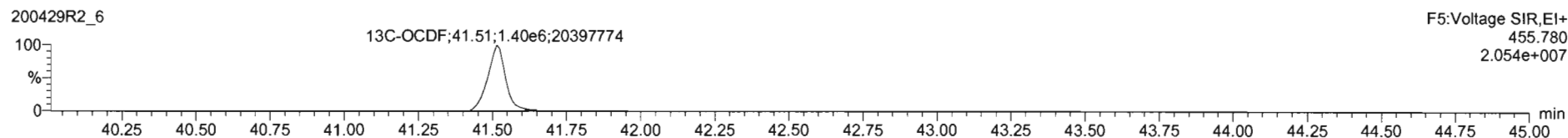
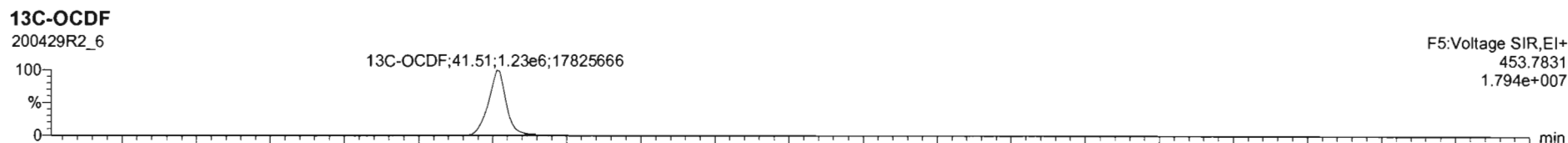
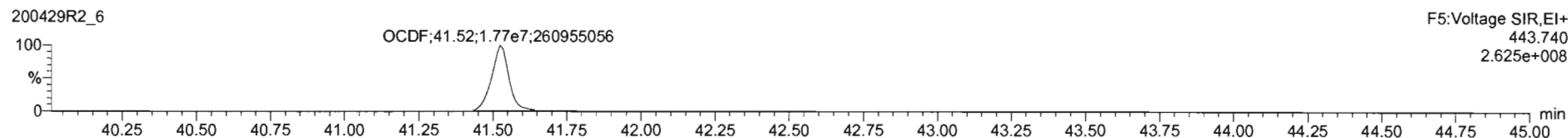
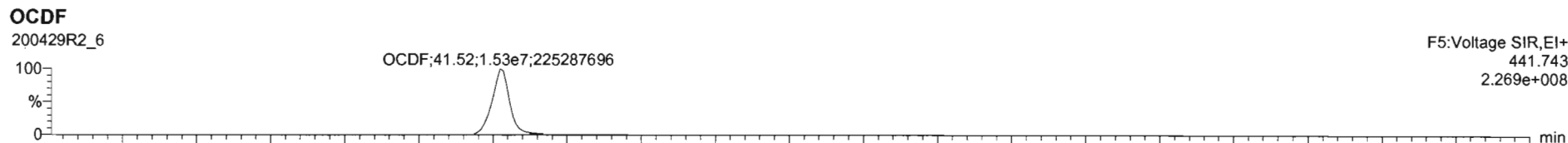
200429R2\_6



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

Name: 200429R2\_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2\_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307





Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

Last Altered: Thursday, April 30, 2020 8:35:25 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

GRB 04/30/2020

CT 04/30/2020

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

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

Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.947	1.000	26.081	26.07	1.001	1.001	11.205	112	0.0427	11.2
2	2 1,2,3,7,8-PeCDD	5.70e5	0.63	NO	0.942	1.000	31.147	31.14	1.001	1.000	56.141	112	0.0577	56.1
3	3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.06	1.000	34.505	34.51	1.000	1.000	58.046	116	0.102	58.0
4	4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.915	1.000	34.591	34.61	1.000	1.001	57.430	115	0.105	57.4
5	5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.915	1.000	34.878	34.88	1.000	1.000	58.193	116	0.120	58.2
6	6 1,2,3,4,6,7,8-HpCDD	3.49e5	1.04	NO	0.898	1.000	38.373	38.38	1.000	1.001	56.727	113	0.145	56.7
7	7 OCDD	6.53e5	0.88	NO	0.933	1.000	41.343	41.35	1.000	1.000	116.94	117	0.107	117
8	8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.787	1.000	25.117	25.12	1.001	1.001	11.247	112	0.0306	11.2
9	9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.910	1.000	29.834	29.83	1.001	1.001	55.836	112	0.0810	55.8
10	10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.966	1.000	30.836	30.82	1.001	1.000	60.816	122	0.0765	60.8
11	11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.878	1.000	33.632	33.64	1.000	1.000	55.918	112	0.109	55.9
12	12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.874	1.000	33.760	33.76	1.000	1.000	56.451	113	0.107	56.5
13	13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.922	1.000	34.359	34.33	1.001	1.000	56.186	112	0.118	56.2
14	14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.864	1.000	35.209	35.22	1.000	1.000	55.290	111	0.162	55.3
15	15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.871	1.000	36.982	36.97	1.001	1.001	54.863	110	0.153	54.9
16	16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.01	1.000	38.947	38.95	1.000	1.000	57.162	114	0.204	57.2
17	17 OCDF	6.13e5	0.86	NO	0.802	1.000	41.525	41.53	1.000	1.000	115.17	115	0.126	115
18	18 13C-2,3,7,8-TCDD	1.53e6	0.79	NO	1.16	1.000	26.046	26.05	1.026	1.027	91.114	91.1	0.0954	
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.847	1.000	31.141	31.13	1.227	1.227	87.564	87.6	0.0958	
20	20 13C-1,2,3,4,7,8-HxCDD	7.95e5	1.29	NO	0.750	1.000	34.496	34.49	1.014	1.014	88.379	88.4	0.183	
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	1.29	NO	0.963	1.000	34.608	34.59	1.017	1.017	89.585	89.6	0.142	
22	22 13C-1,2,3,7,8,9-HxCDD	8.98e5	1.26	NO	0.838	1.000	34.877	34.87	1.025	1.025	89.402	89.4	0.164	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.86e5	1.10	NO	0.641	1.000	38.367	38.36	1.128	1.128	89.184	89.2	0.183	
24	24 13C-OCDD	1.20e6	0.86	NO	0.586	1.000	41.360	41.34	1.216	1.215	170.31	85.2	0.144	
25	25 13C-2,3,7,8-TCDF	2.25e6	0.78	NO	1.03	1.000	25.104	25.09	0.989	0.989	92.189	92.2	0.134	
26	26 13C-1,2,3,7,8-PeCDF	1.77e6	1.60	NO	0.845	1.000	29.829	29.81	1.176	1.175	88.893	88.9	0.195	
27	27 13C-2,3,4,7,8-PeCDF	1.71e6	1.60	NO	0.814	1.000	30.822	30.81	1.215	1.214	88.919	88.9	0.203	
28	28 13C-1,2,3,4,7,8-HxCDF	1.12e6	0.51	NO	1.00	1.000	33.635	33.63	0.989	0.989	93.115	93.1	0.212	
29	29 13C-1,2,3,6,7,8-HxCDF	1.26e6	0.51	NO	1.14	1.000	33.757	33.75	0.992	0.992	92.434	92.4	0.187	
30	30 13C-2,3,4,6,7,8-HxCDF	1.12e6	0.51	NO	1.02	1.000	34.326	34.33	1.009	1.009	91.031	91.0	0.208	
31	31 13C-1,2,3,7,8,9-HxCDF	9.97e5	0.51	NO	0.845	1.000	35.217	35.21	1.035	1.035	98.412	98.4	0.252	

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

Last Altered: Thursday, April 30, 2020 8:35:25 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

5. ID: SSS Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.59e5	0.43	NO	0.771	1.000	36.948	36.94	1.086	1.086	92.960	93.0	0.284	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.17e5	0.43	NO	0.482	1.000	38.959	38.95	1.145	1.145	89.503	89.5	0.455	
34	34 13C-OCDF	1.33e6	0.88	NO	0.669	1.000	41.530	41.53	1.221	1.221	165.58	82.8	0.146	
35	35 37Cl-2,3,7,8-TCDD	1.58e5			1.10	1.000	26.076	26.07	1.028	1.027	9.8763	98.8	0.0151	
36	36 13C-1,2,3,4-TCDD	1.45e6	0.81	NO	1.00	1.000	25.350	25.38	1.000	1.000	100.00	100	0.111	
37	37 13C-1,2,3,4-TCDF	2.36e6	0.79	NO	1.00	1.000	23.560	23.59	1.000	1.000	100.00	100	0.139	
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	0.51	NO	1.00	1.000	34.000	34.02	1.000	1.000	100.00	100	0.213	



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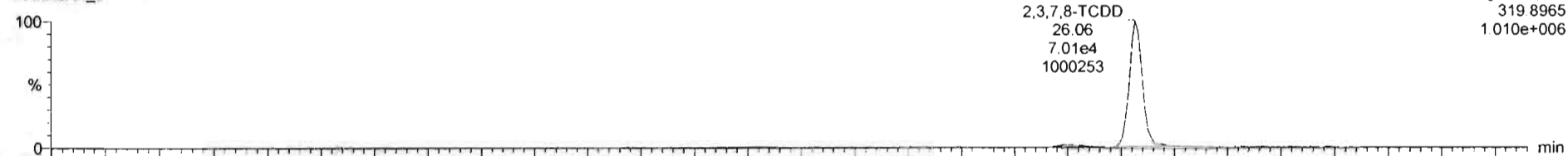
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Printed: Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time

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

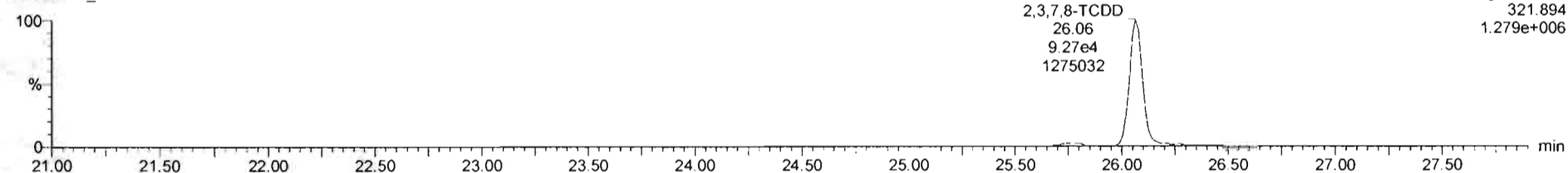
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**2,3,7,8-TCDD**

200429R2\_8

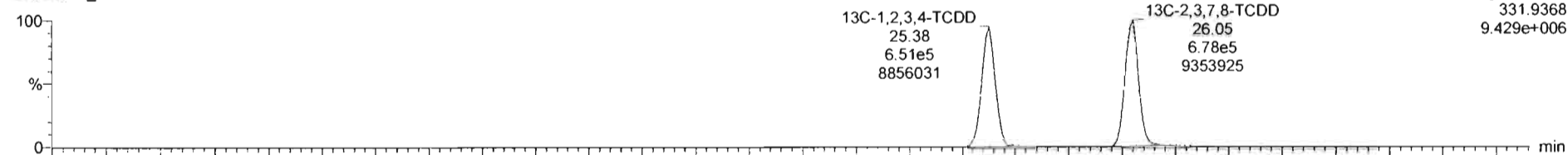


200429R2\_8

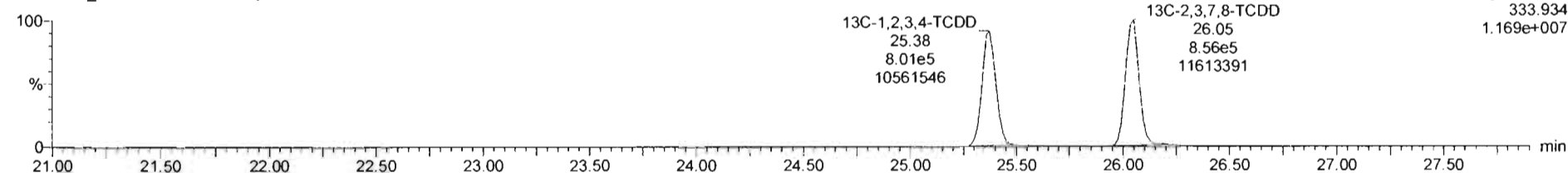


**13C-2,3,7,8-TCDD**

200429R2\_8



200429R2\_8



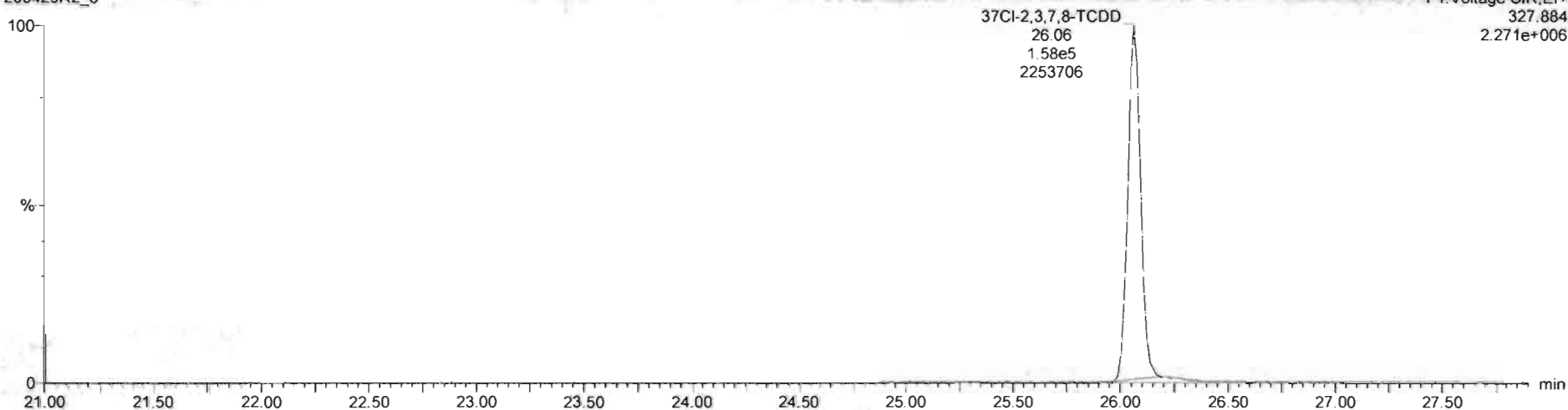
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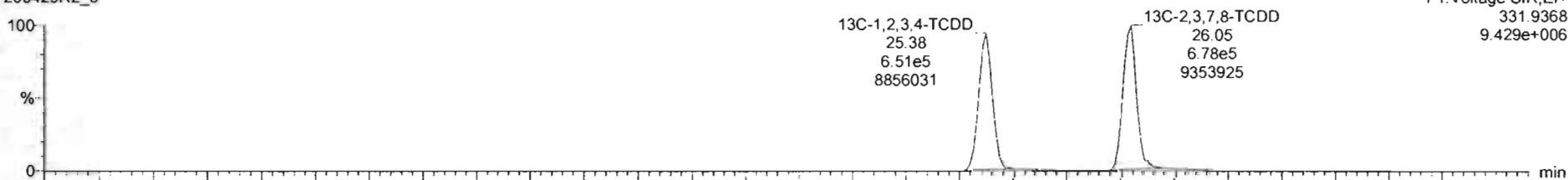
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200429R2\_8

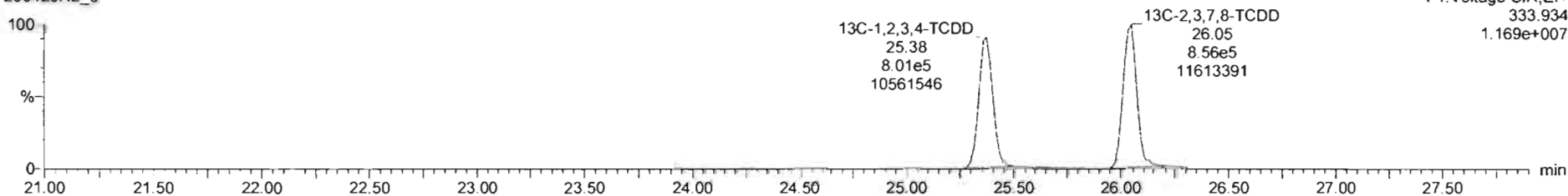


**13C-1,2,3,4-TCDD**

200429R2\_8



200429R2\_8



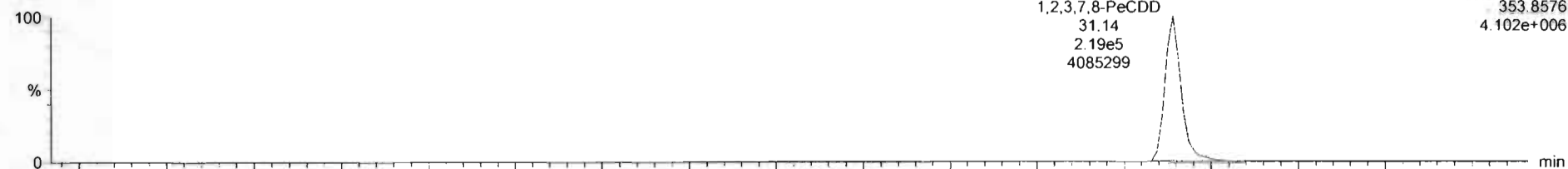
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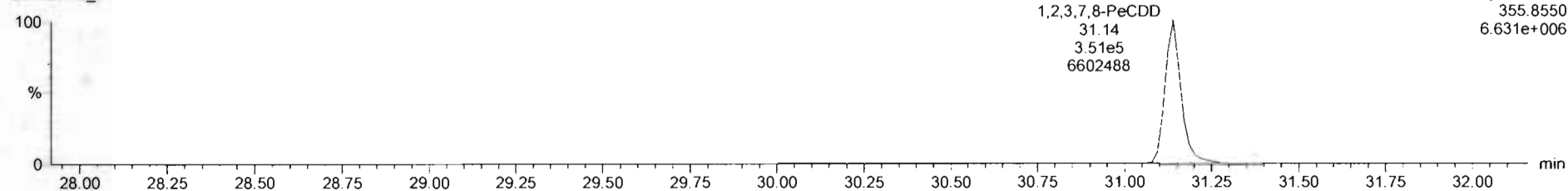
Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200429R2\_8

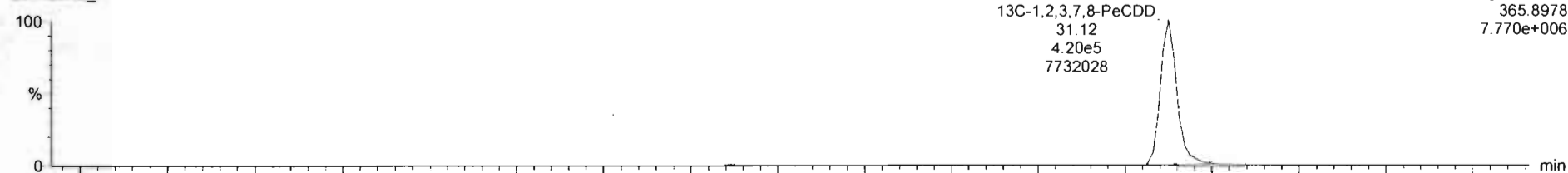


200429R2\_8

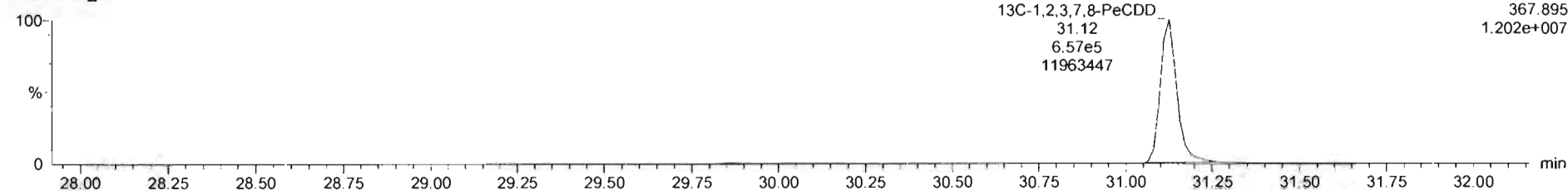


**13C-1,2,3,7,8-PeCDD**

200429R2\_8



200429R2\_8



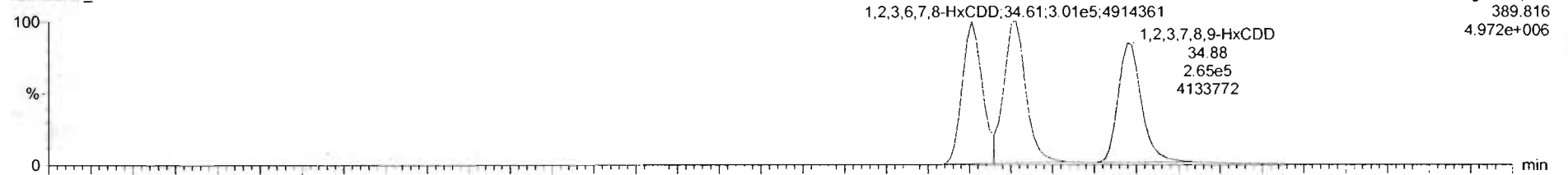
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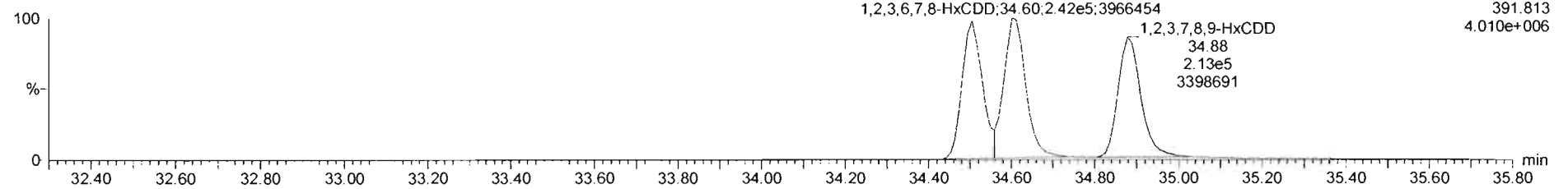
Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200429R2\_8

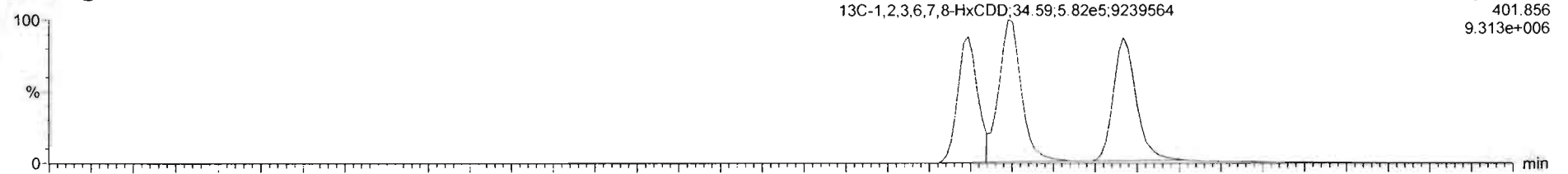


200429R2\_8

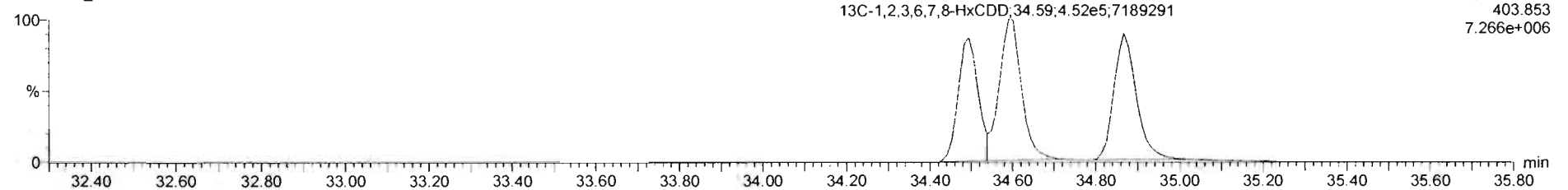


**13C-1,2,3,4,7,8-HxCDD**

200429R2\_8



200429R2\_8



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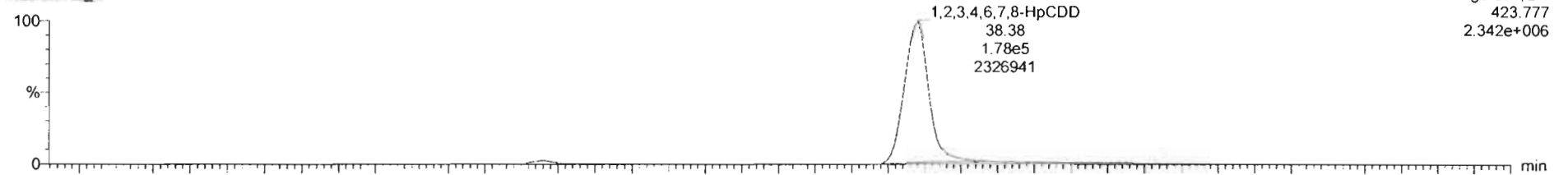
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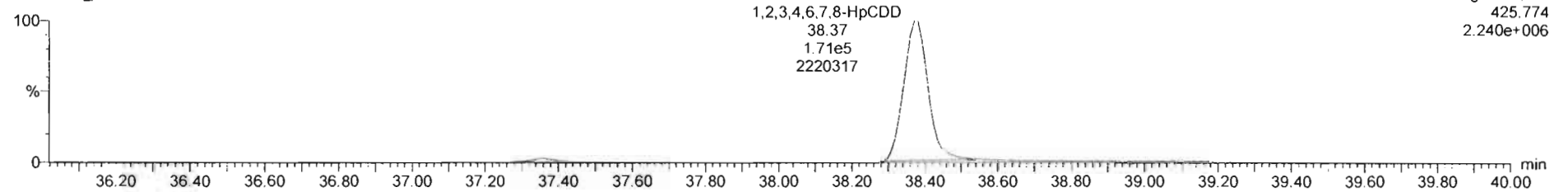
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**1,2,3,4,6,7,8-HpCDD**

200429R2\_8

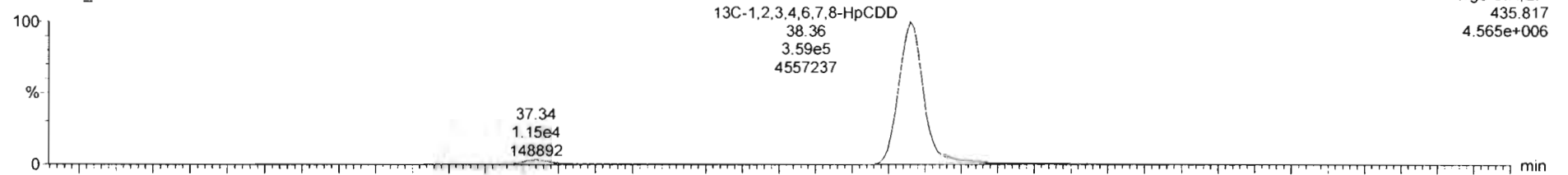


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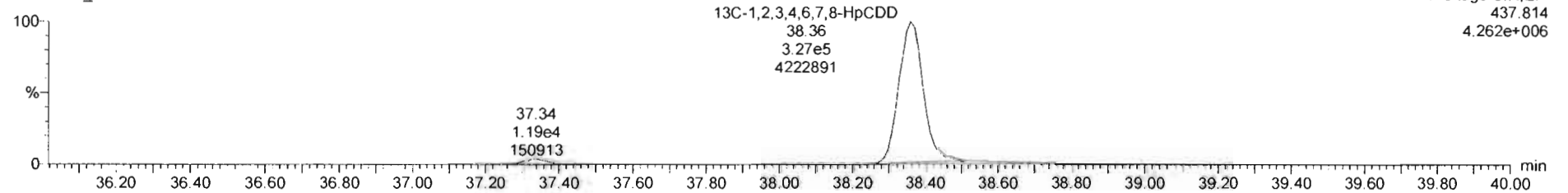


**13C-1,2,3,4,6,7,8-HpCDD**

200429R2\_8



200429R2\_8

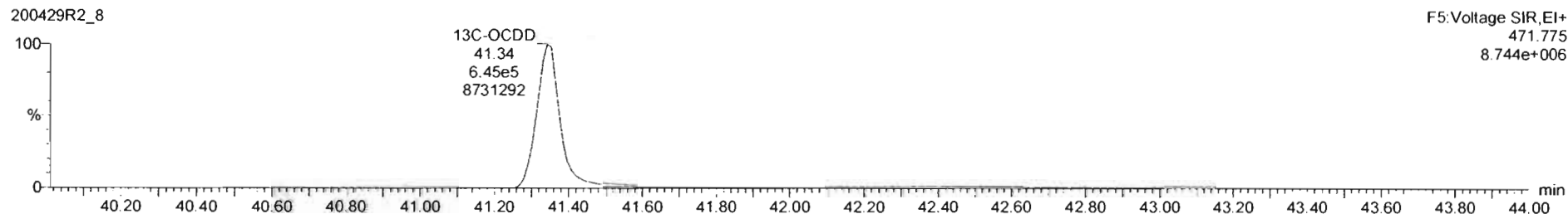
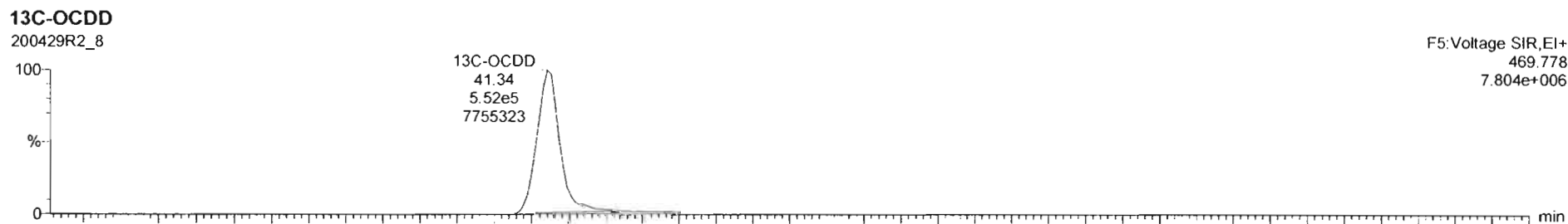
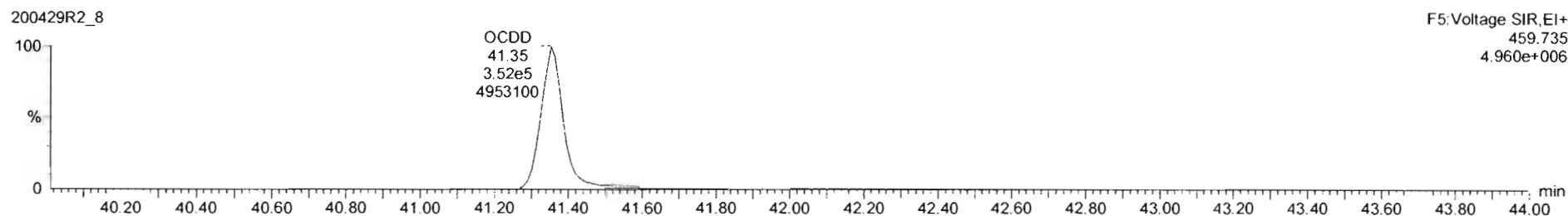
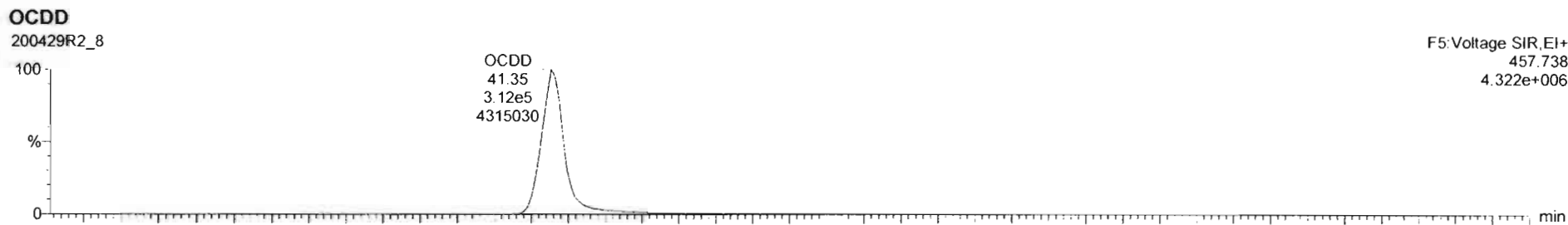


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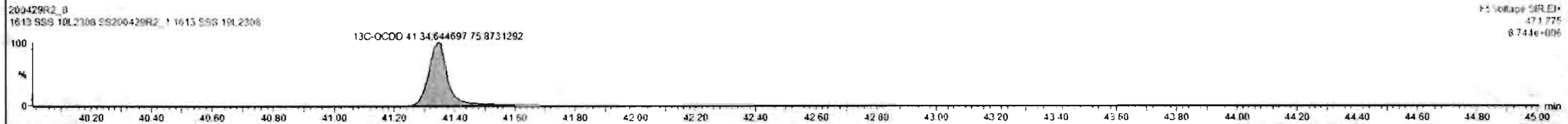
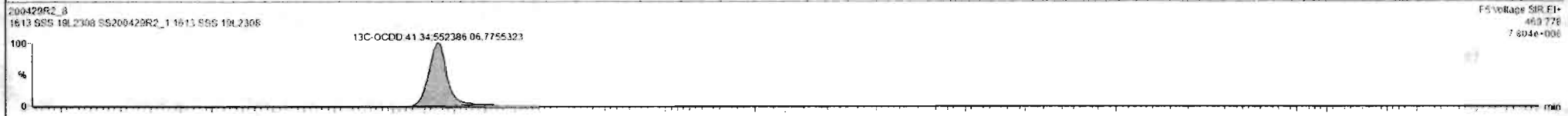
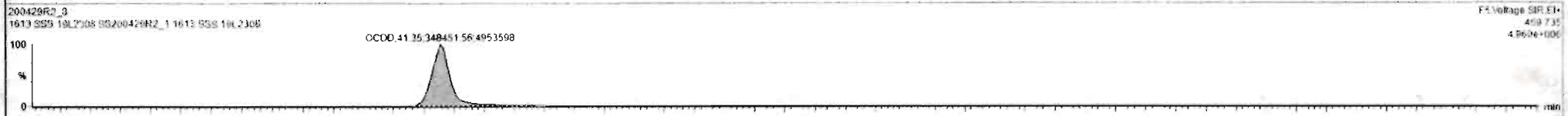
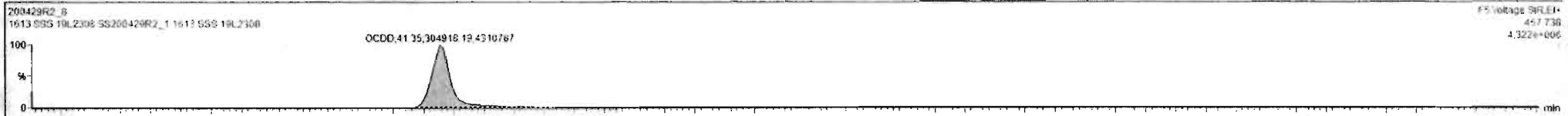
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Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



#	Name	Resp	RA	inj	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2	1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	56.0	11.6	0.102	56.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.88	1.000	58.2	11.6	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8919	1.000	36.38	1.001	56.7	11.3	0.145	56.7
7	OCDD	6.53e5	0.55	NO	0.9325	1.000	41.35	1.000	117	11.7	0.107	117
8	2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9	1,2,3,7,8-PeCDF	5.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	0.0810	55.8
10	2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.22	NO	0.8782	1.000	33.64	1.000	55.9	11.2	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.78	1.000	56.5	11.3	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8542	1.000	35.22	1.000	55.3	11.1	0.152	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	11.0	0.153	54.9
16	1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.5	0.158	115



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200429R2\_8

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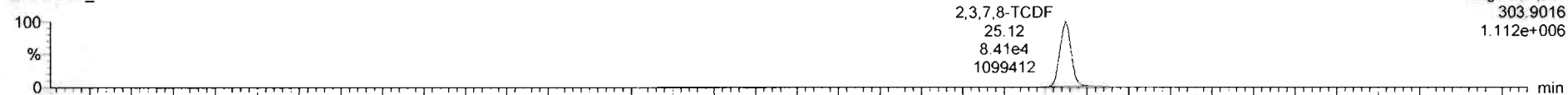
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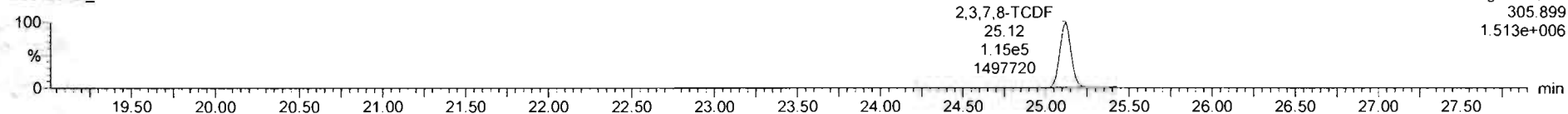
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**2,3,7,8-TCDF**

200429R2\_8

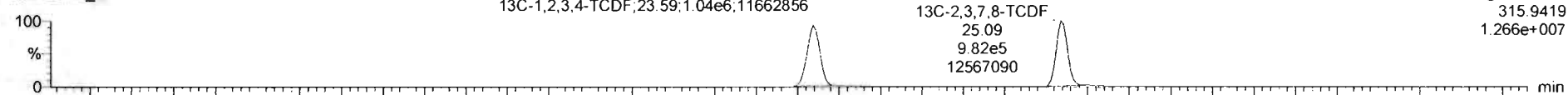


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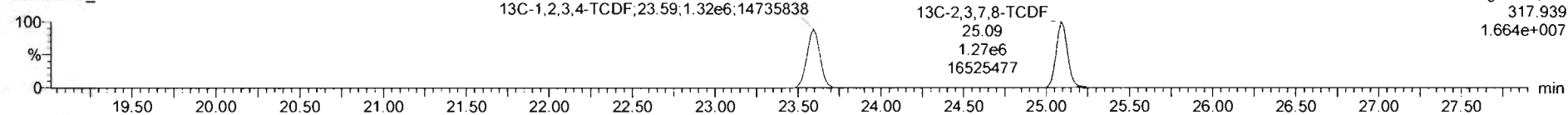


**13C-2,3,7,8-TCDF**

200429R2\_8

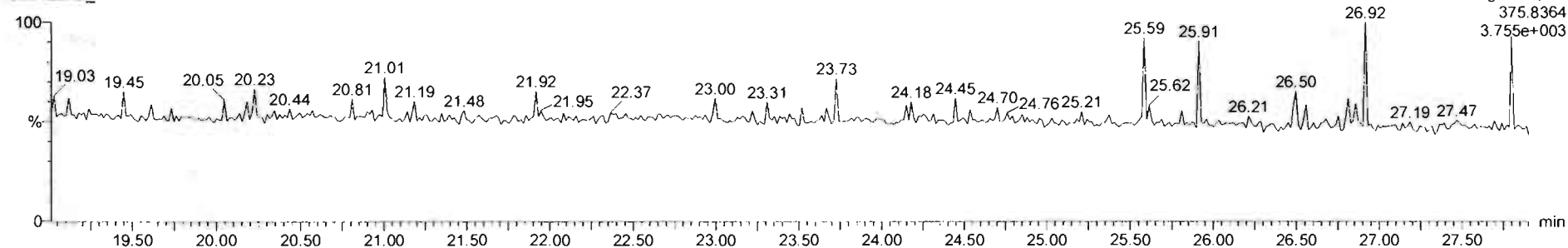


200429R2\_8



**DPE1**

200429R2\_8





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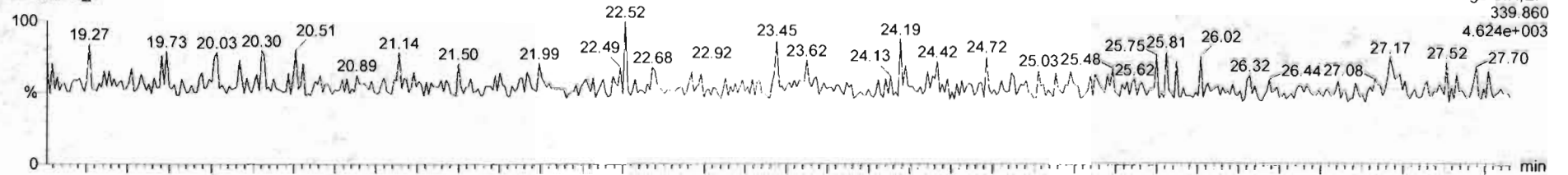
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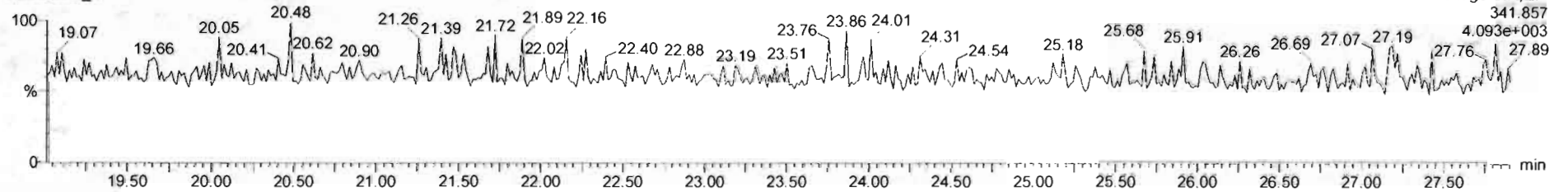
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200429R2\_8

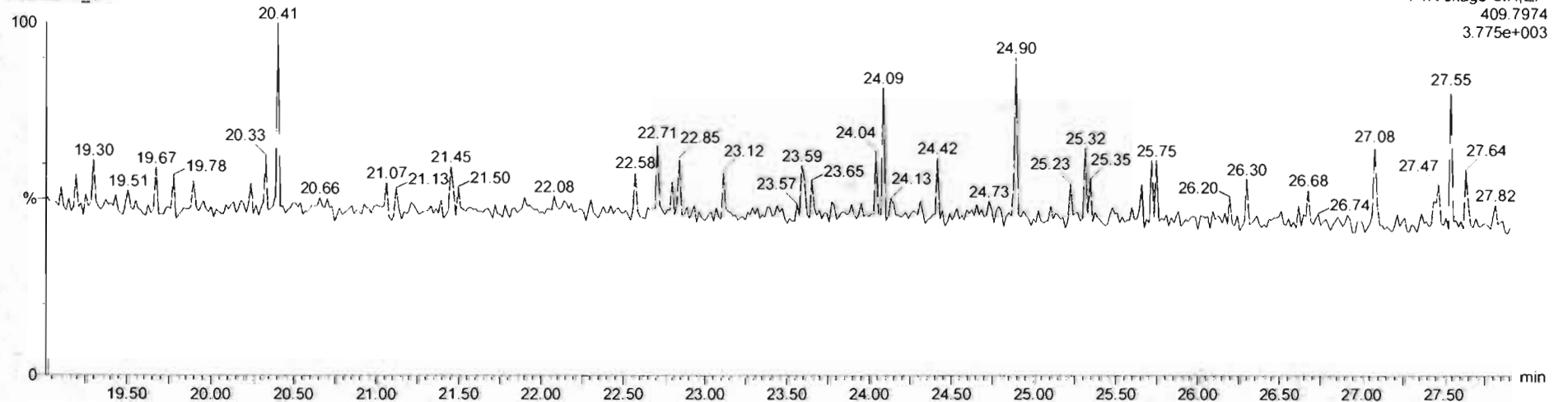


200429R2\_8



DPE6

200429R2\_8



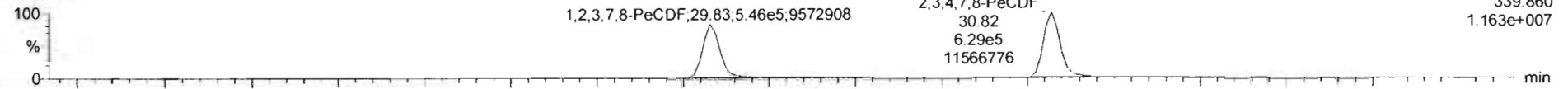
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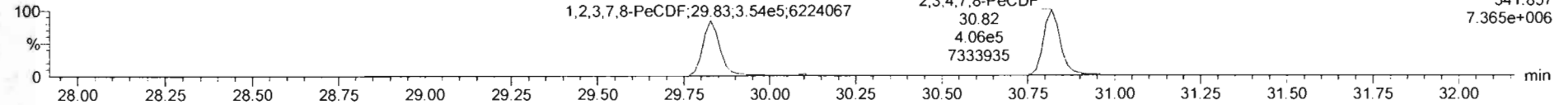
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**1,2,3,7,8-PeCDF**

200429R2\_8

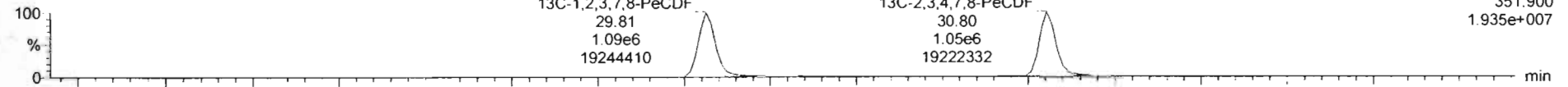


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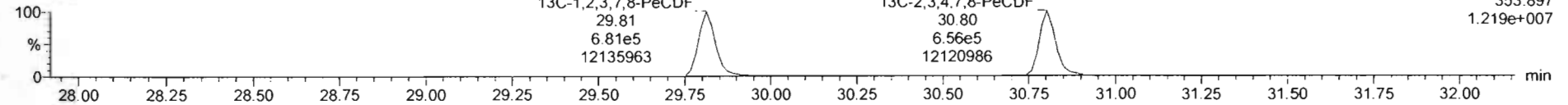


**13C-1,2,3,7,8-PeCDF**

200429R2\_8

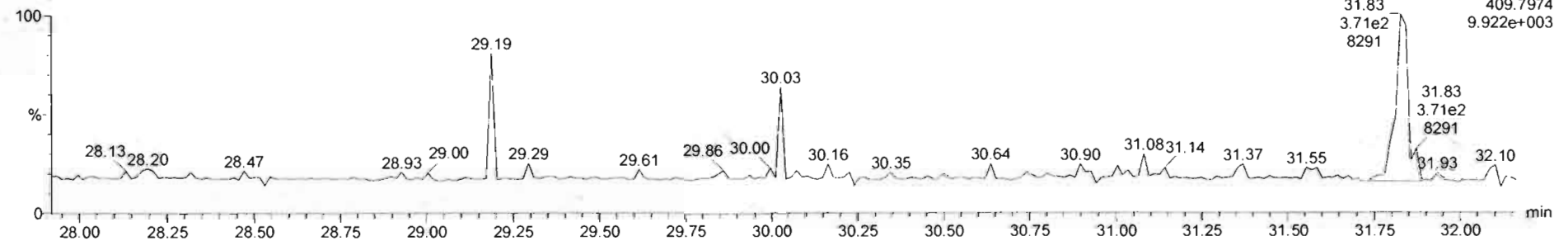


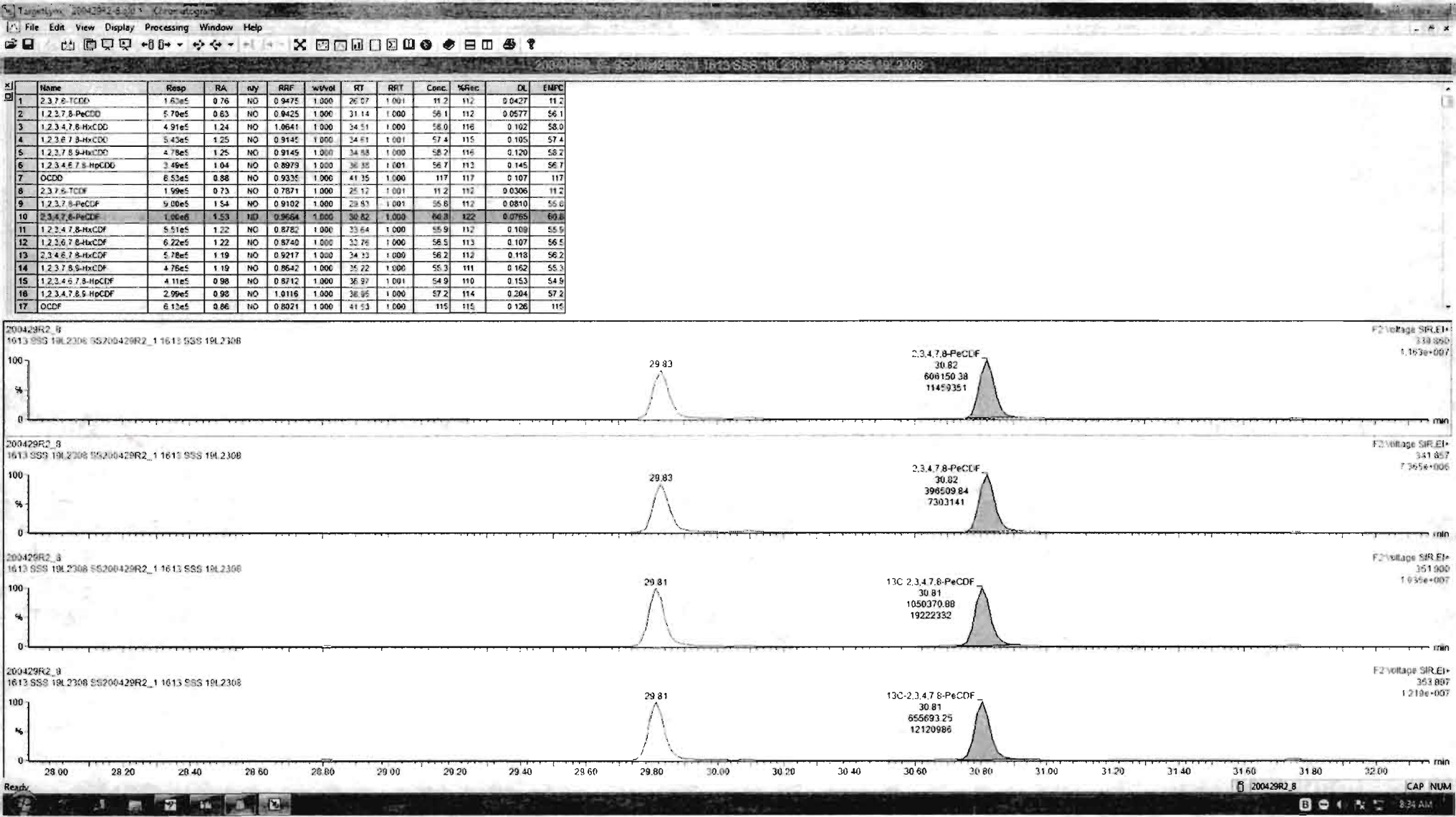
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**DPE2**

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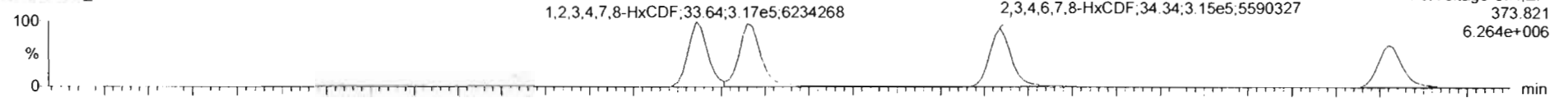
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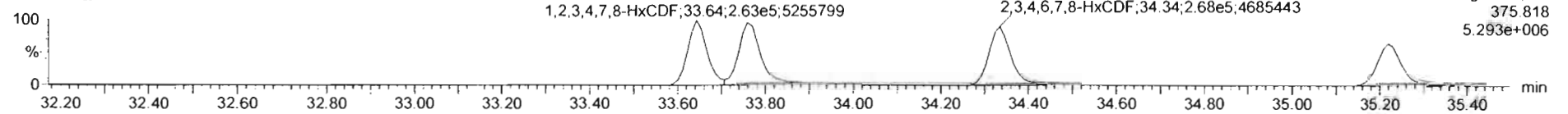
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**1,2,3,4,7,8-HxCDF**

200429R2\_8

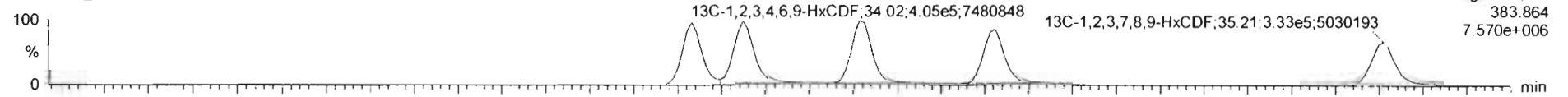


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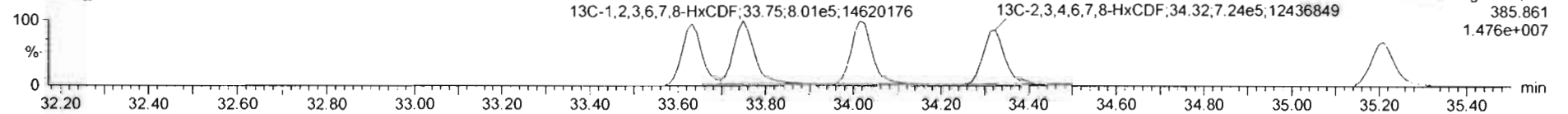


**13C-1,2,3,4,7,8-HxCDF**

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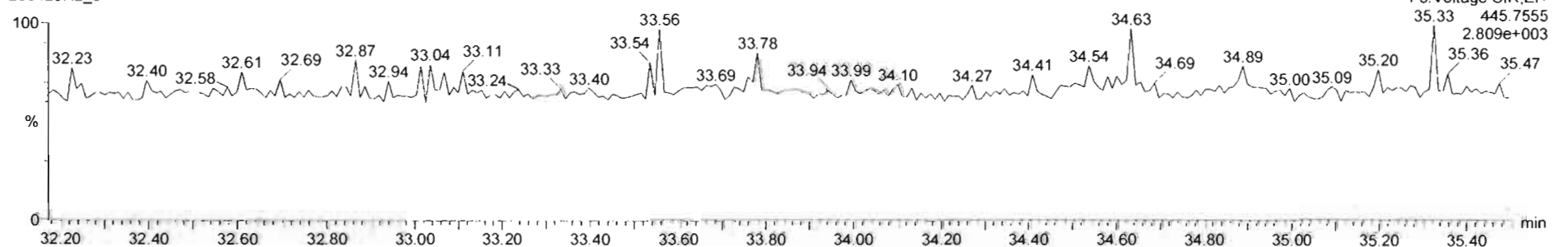


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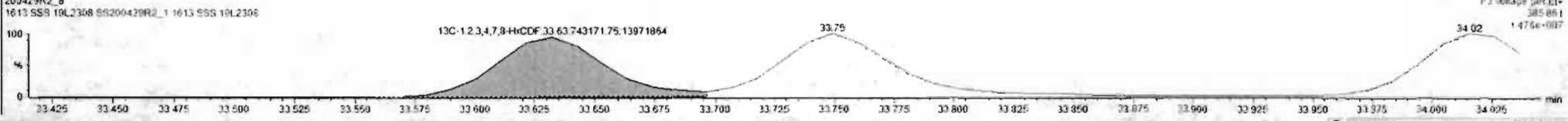
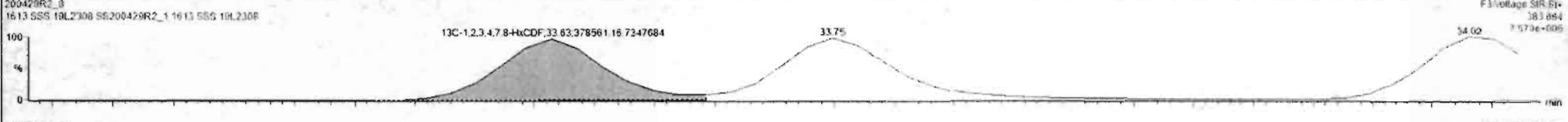
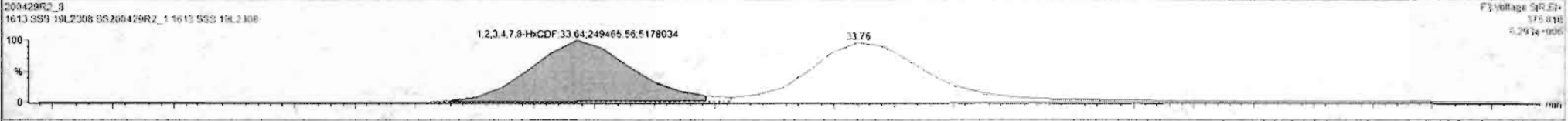
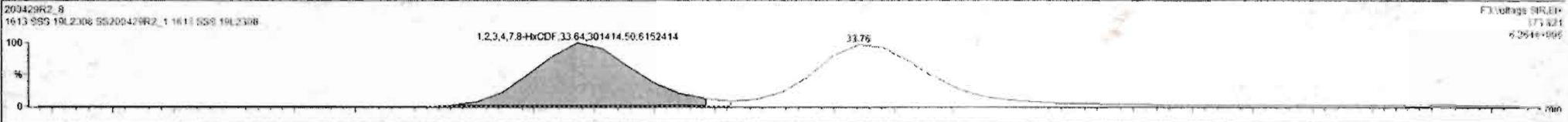
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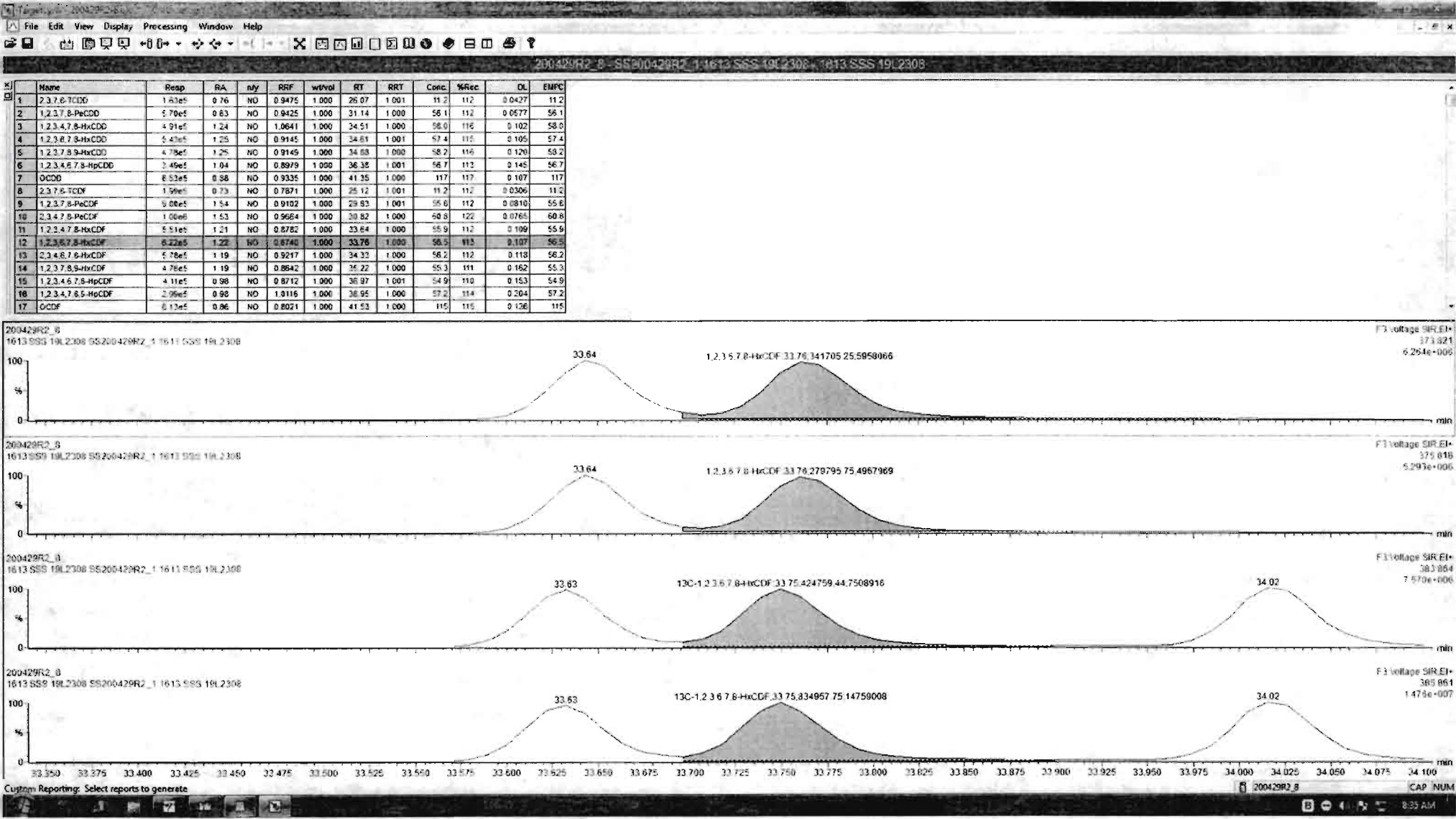
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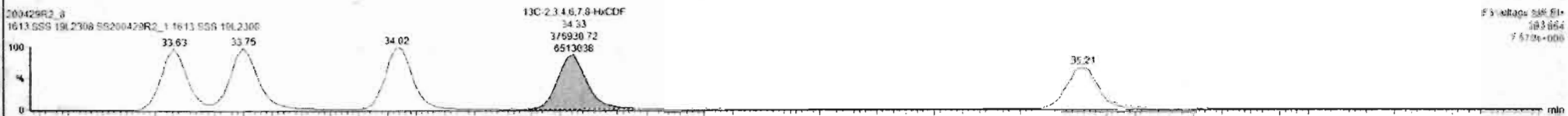
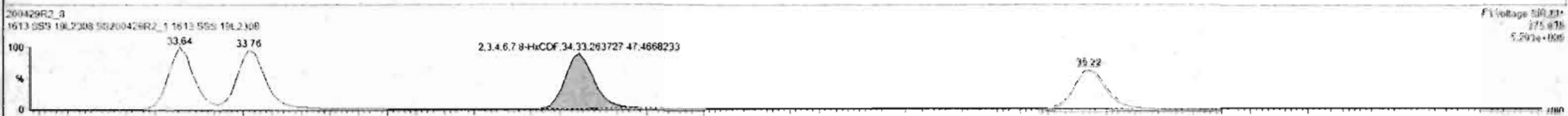
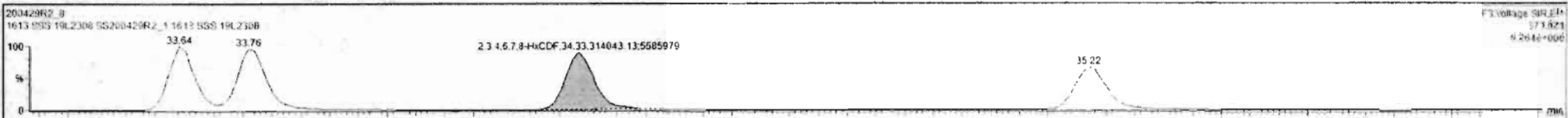
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#	Name	Resp	RA	dy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDF	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	112	0.0427	11.2
2	1,2,3,7,8-PeCDF	5.79e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	116	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.01	1.001	57.4	115	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.08	1.000	58.2	116	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.36	1.001	56.7	113	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	117	0.107	117
8	2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.08e5	1.54	NO	0.9192	1.000	29.93	1.001	55.6	112	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	122	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.31	NO	0.6782	1.000	33.64	1.000	55.9	112	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	113	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.78e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	111	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16	1,2,3,4,7,8,9-HpCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	114	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.126	115

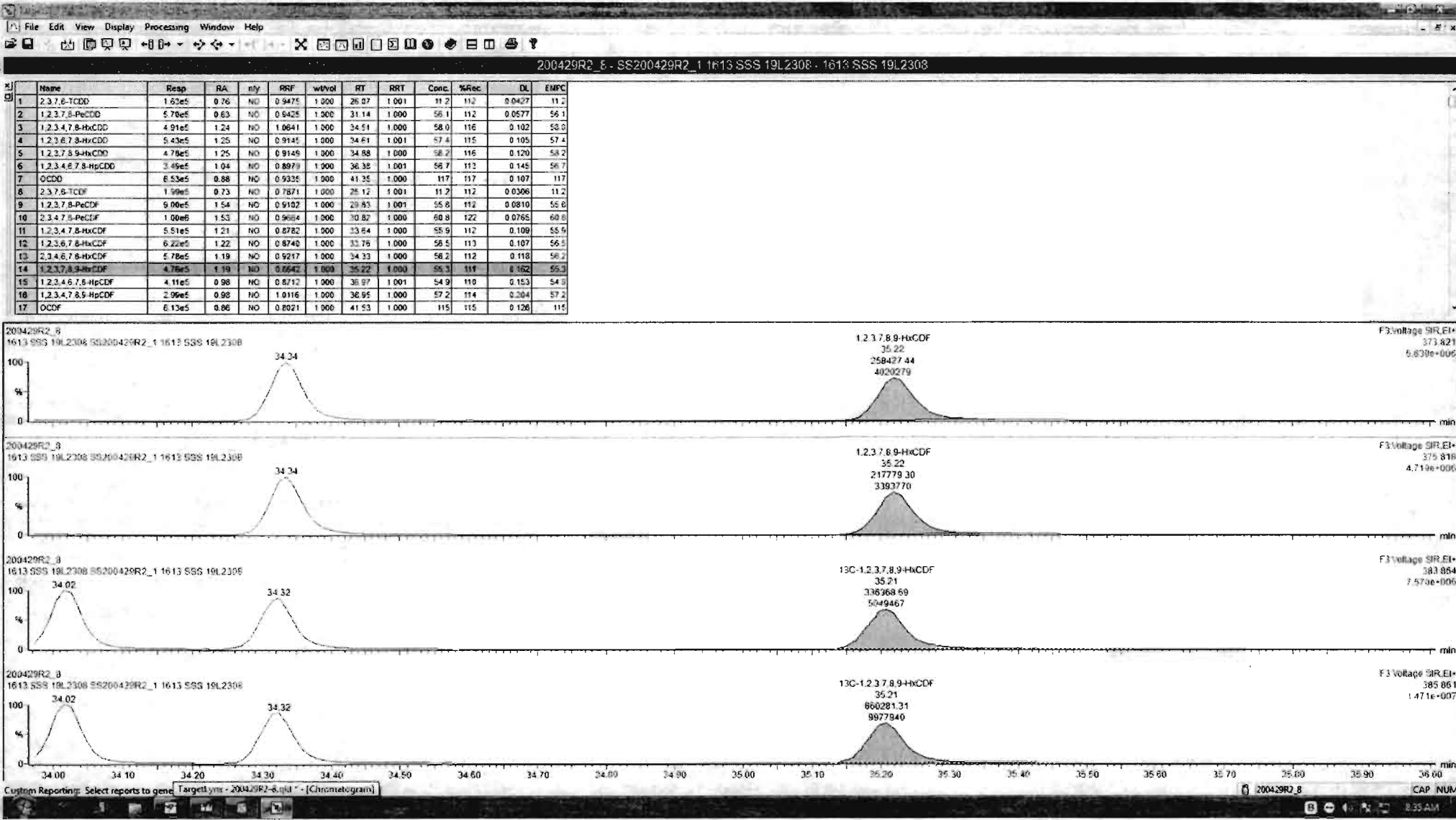




#	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.7	11.2	0.0427	11.2
2	1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.6	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9145	1.000	34.88	1.000	58.2	11.6	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.38	1.001	58.7	11.3	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8	2,3,7,8-TCDF	1.59e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e6	1.52	NO	0.9654	1.000	29.82	1.000	60.8	12.2	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.64	1.000	55.9	11.2	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	11.3	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.79e5	1.18	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	11.1	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	11.0	0.153	54.9
16	1,2,3,4,7,8,9-HoCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.6	0.126	115



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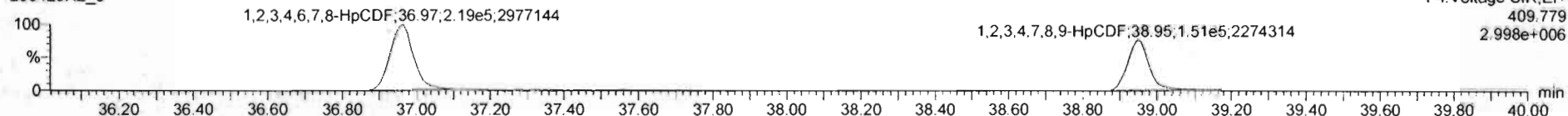
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**1,2,3,4,6,7,8-HpCDF**

200429R2\_8

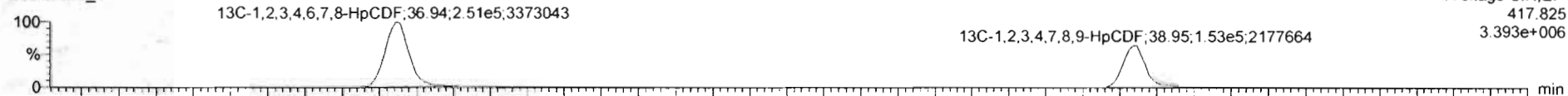


200429R2\_8

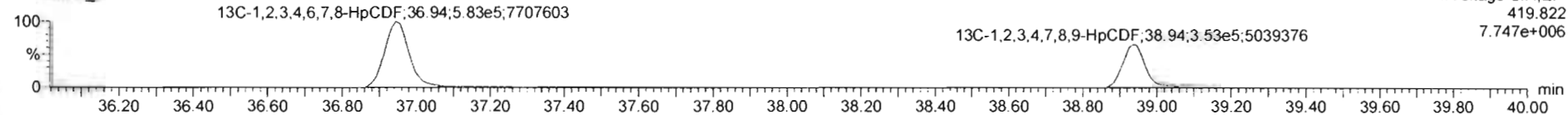


**13C-1,2,3,4,6,7,8-HpCDF**

200429R2\_8

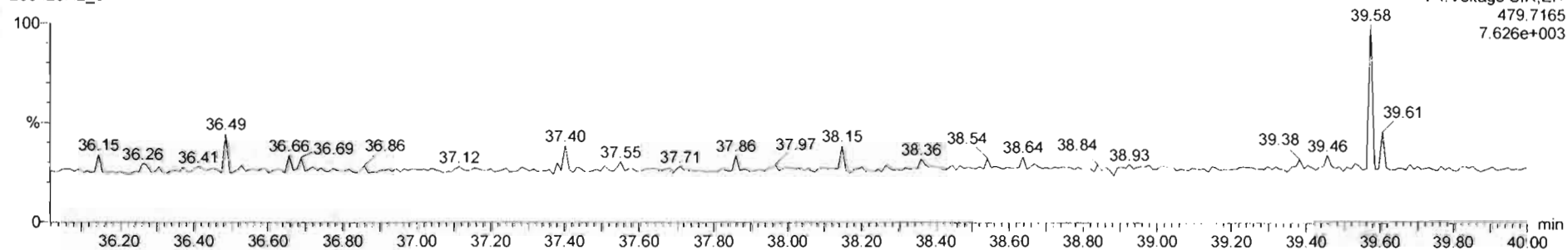


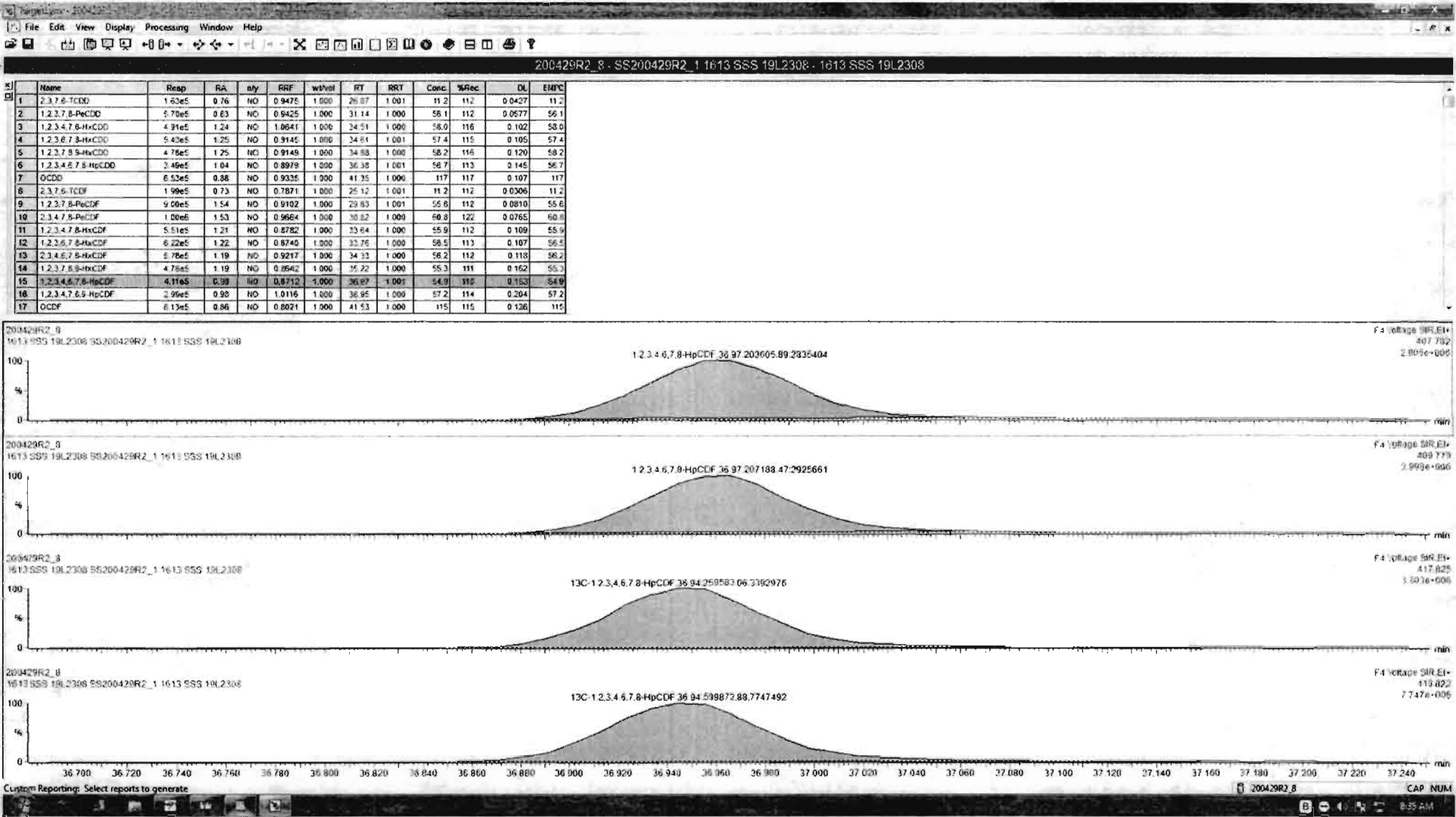
200429R2\_8



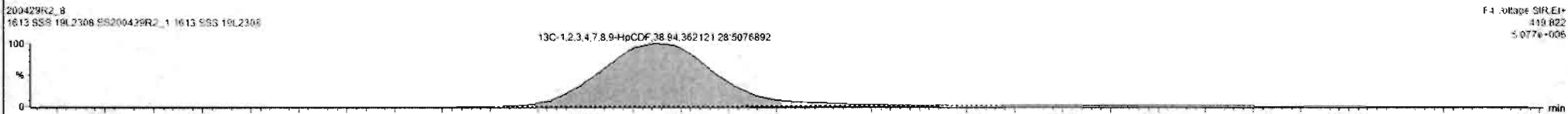
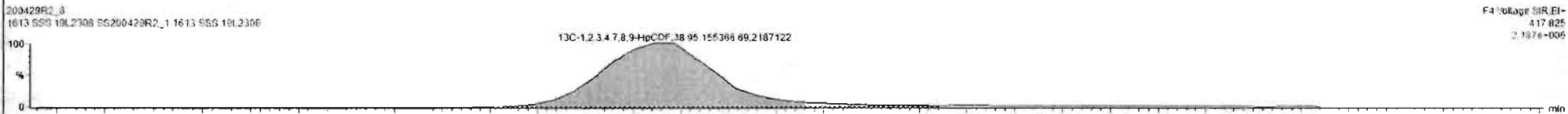
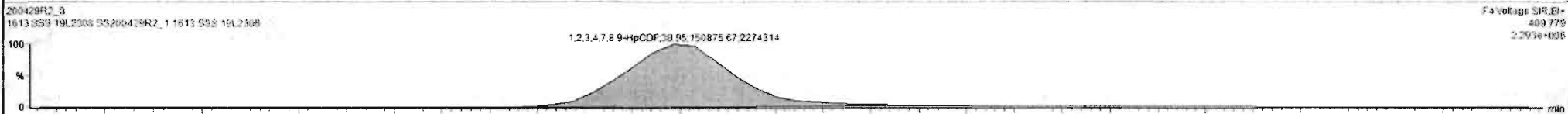
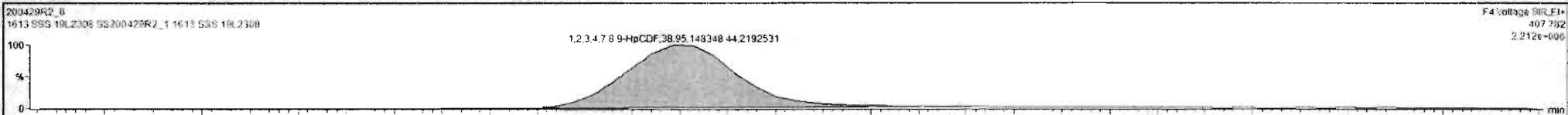
**DPE4**

200429R2\_8





Name	Resp	RA	dy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	4.70e5	0.83	NO	0.9425	1.000	31.14	1.000	58.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.76e5	1.25	NO	0.9145	1.000	34.68	1.000	58.2	11.6	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.35	1.001	56.7	11.2	0.145	56.7
7 OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.63	1.001	55.6	11.2	0.0810	55.6
10 2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.84	1.000	55.9	11.2	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	58.5	11.3	0.107	56.5
13 2,3,4,6,7,8-HxCDF	4.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	34.22	1.000	55.3	11.1	0.162	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.86	NO	0.8712	1.000	35.97	1.001	54.9	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.95e5	0.96	NO	1.0115	1.000	35.95	1.000	57.2	11.4	0.204	57.2
17 OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.5	0.126	115



Custom Reporting: Select reports to generate

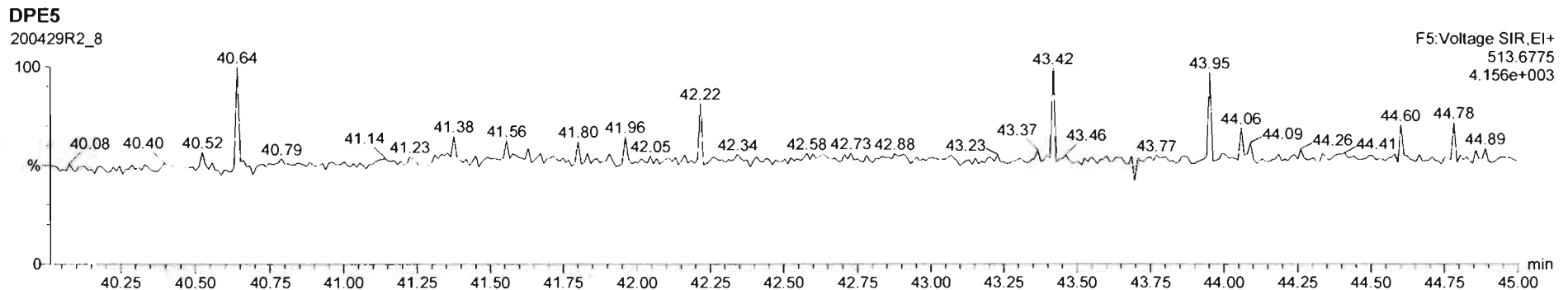
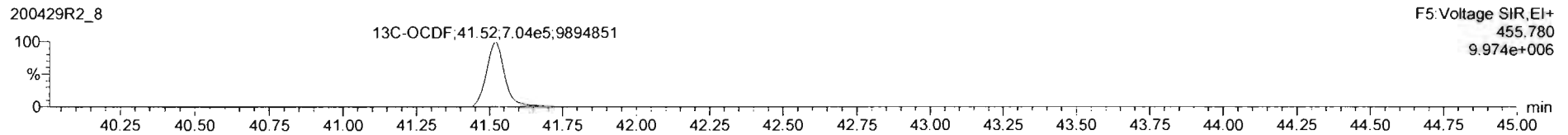
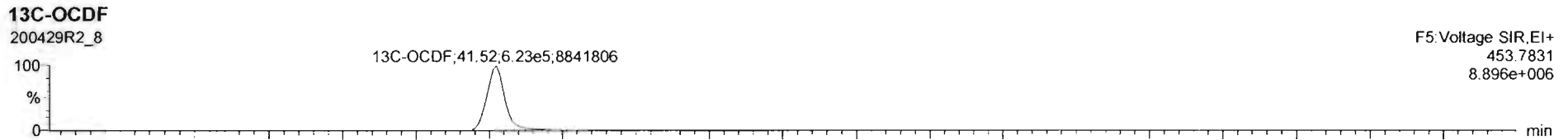
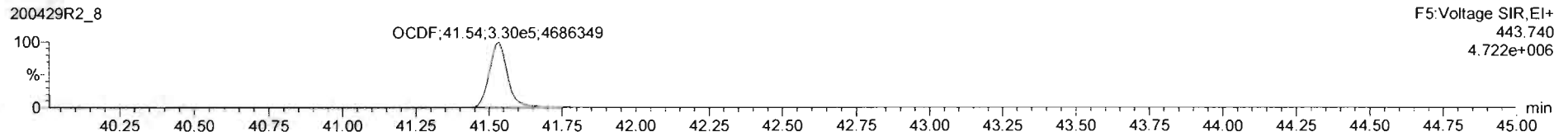
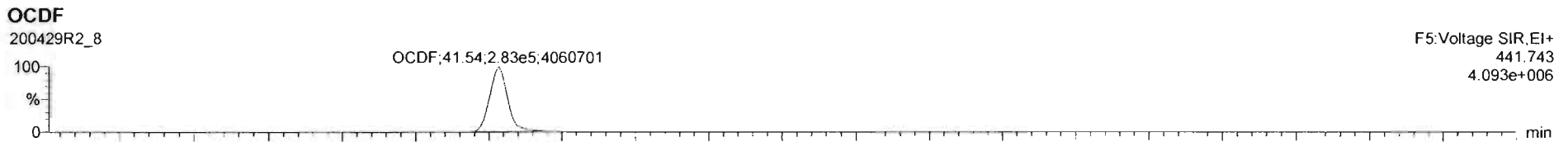
200429R2\_8 CAP INUM

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:38:20 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time

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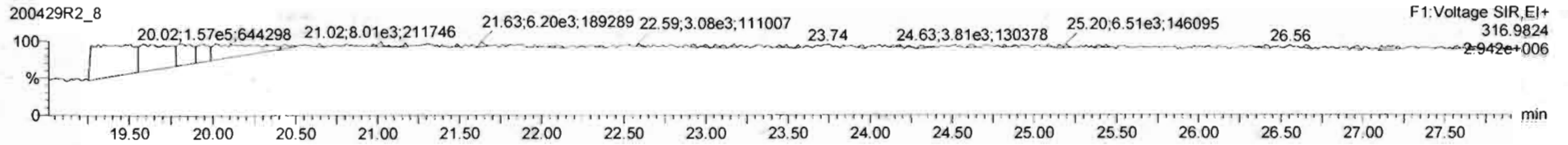
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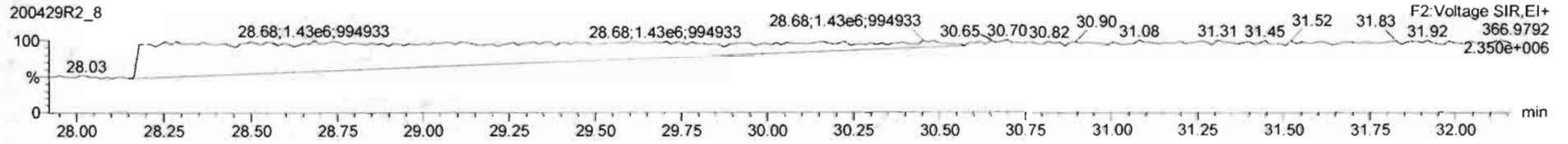
Printed: Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time

Name: 200429R2\_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

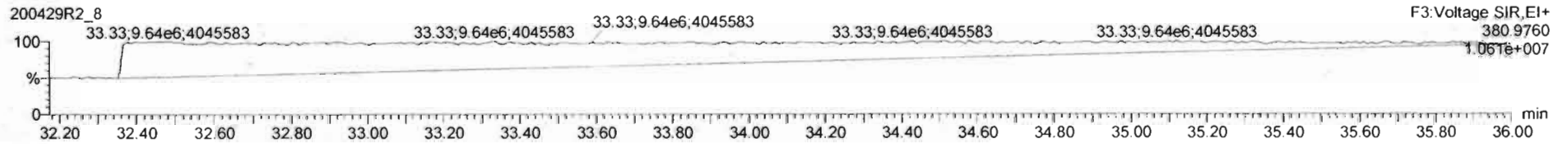
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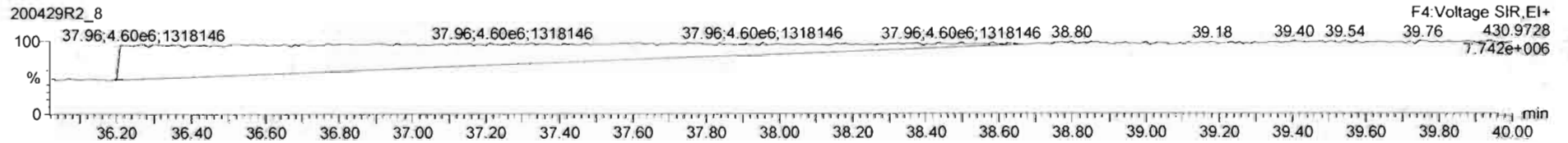
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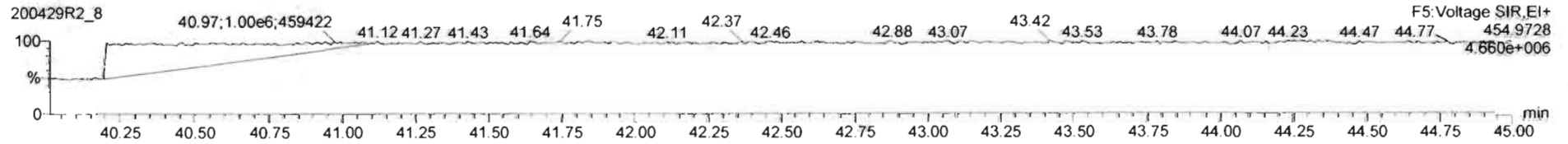
**PFK3**



**PFK4**



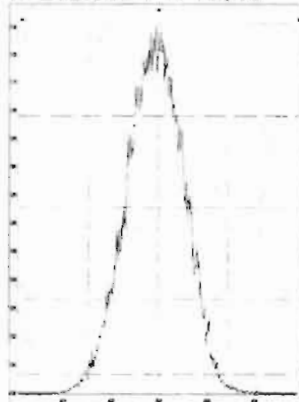
**PFK5**



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Printed: Thursday, April 30, 2020 07:17:15 Pacific Daylight Time

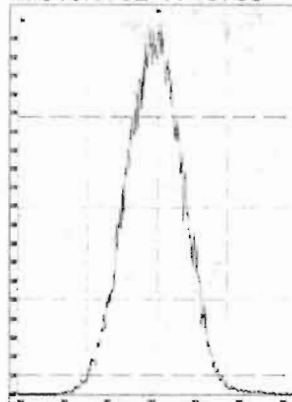
M 292.9824 R 10689



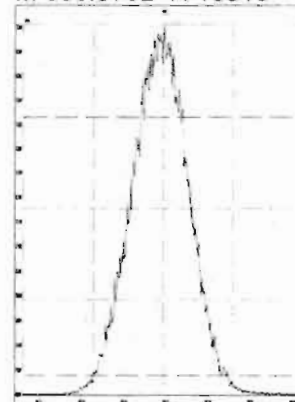
M 304.9824 R 11016



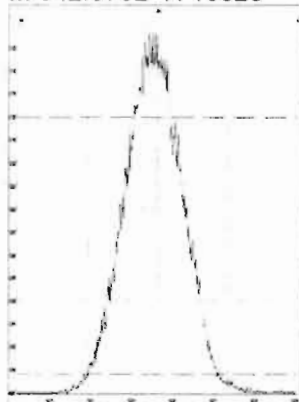
M 318.9792 R 10730



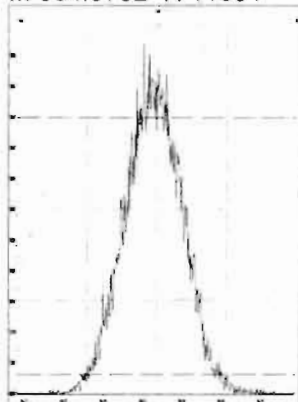
M 330.9792 R 10915



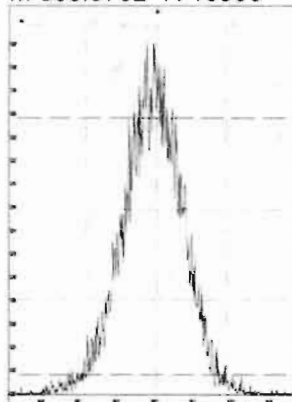
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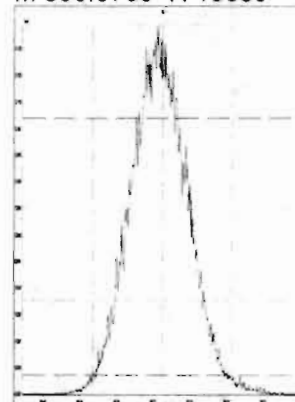
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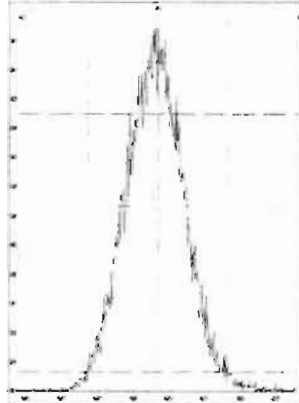
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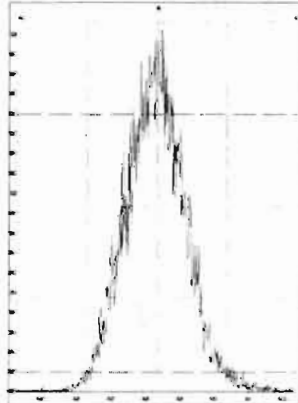
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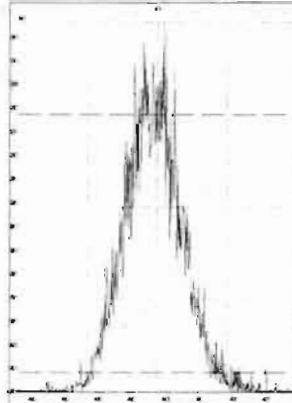
M 392.9760 R 10202



M 404.9760 R 10370



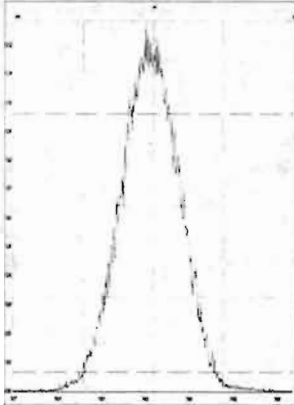
M 416.9760 R 11012



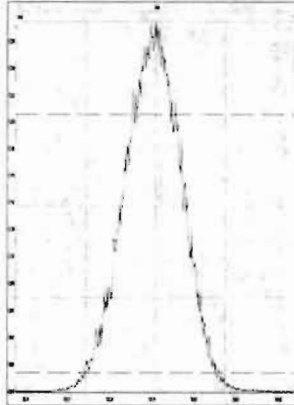
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:17:40 Pacific Daylight Time

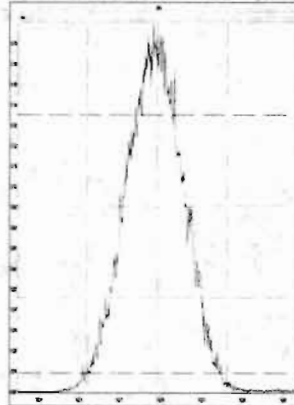
M 318.9792 R 10731



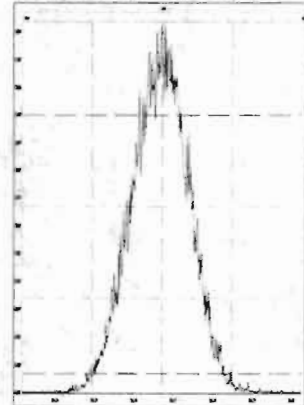
M 330.9792 R 10547



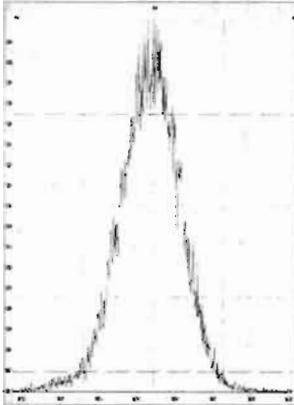
M 342.9792 R 10640



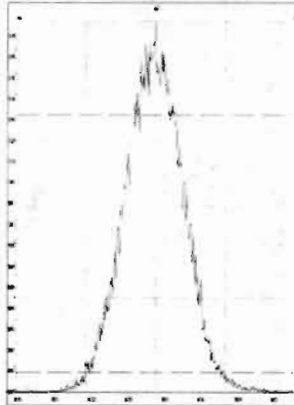
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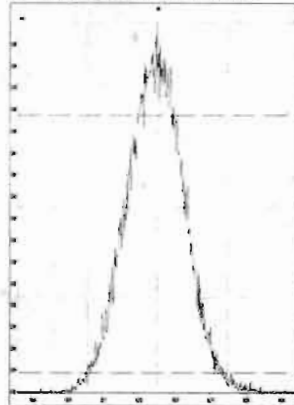
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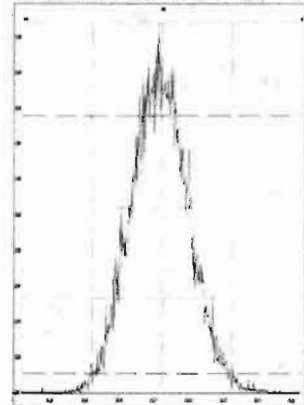
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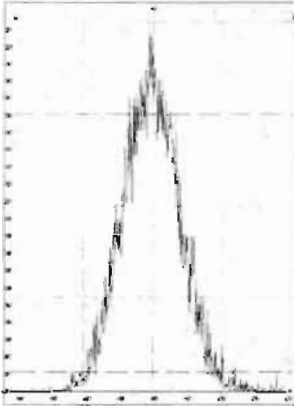
M 392.9760 R 10329



M 404.9760 R 10730



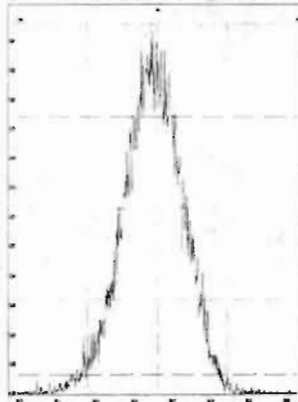
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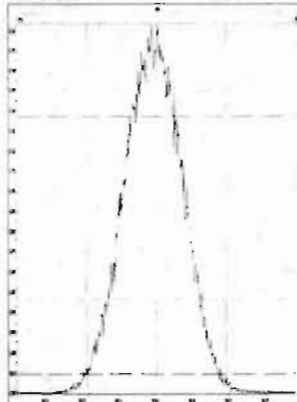
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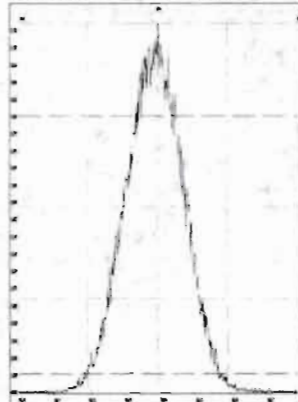
M 366.9792 R 10079



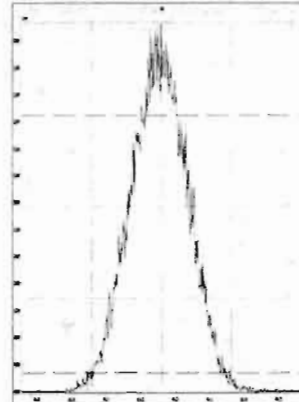
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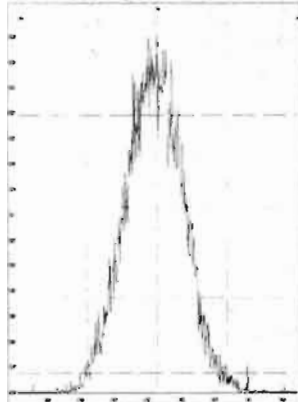
M 392.9760 R 10592



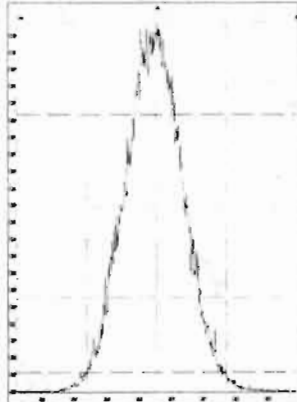
M 404.9760 R 11010



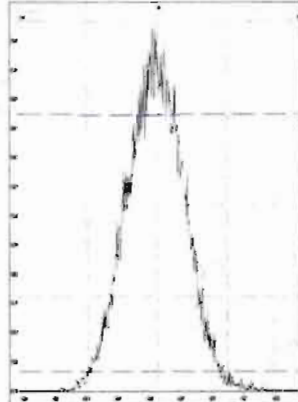
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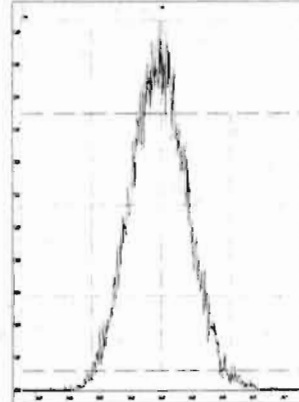
M 430.9728 R 10415



M 442.9728 R 10730



M 454.9728 R 11260

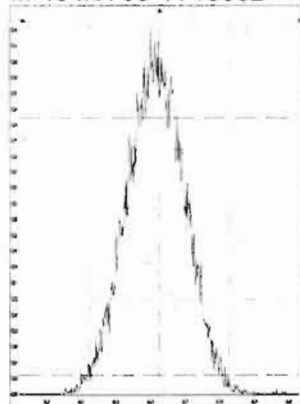




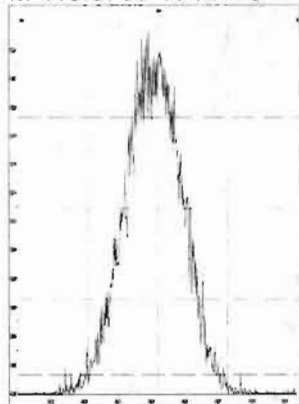
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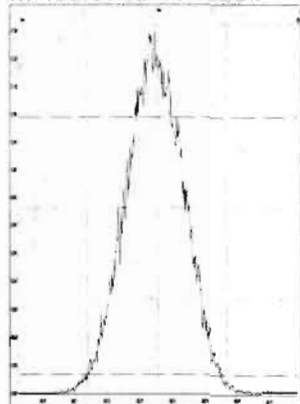
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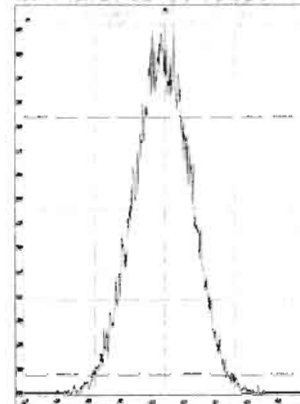
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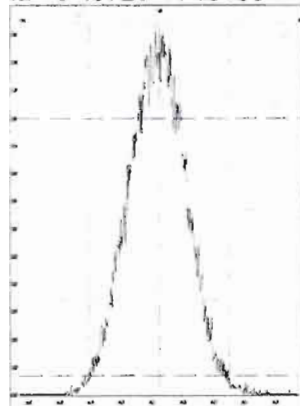
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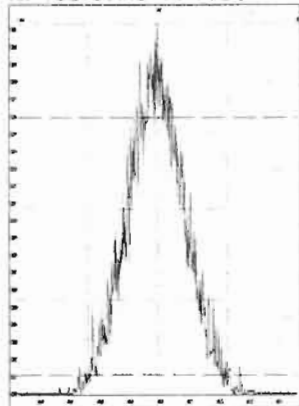
M 442.9728 R 10505



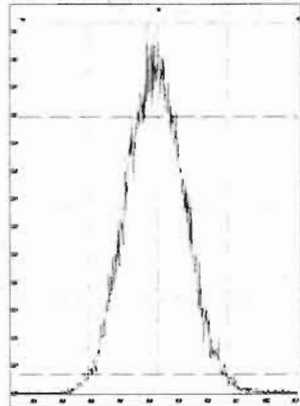
M 454.9728 R 10460



M 466.9728 R 10591



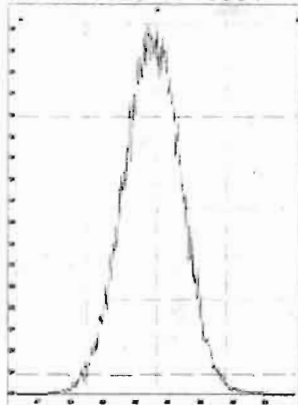
M 480.9696 R 10040



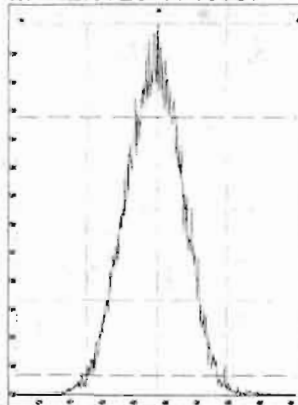
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Printed: Thursday, April 30, 2020 07:18:29 Pacific Daylight Time

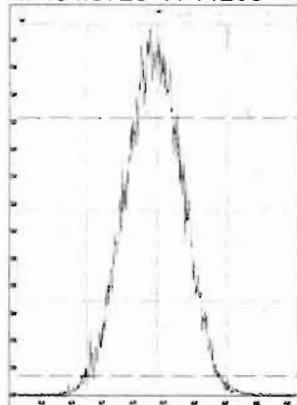
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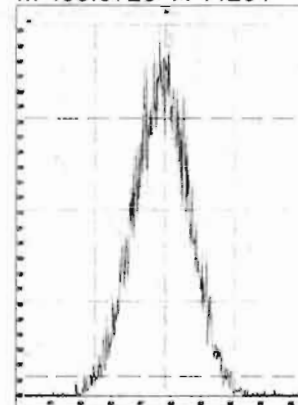
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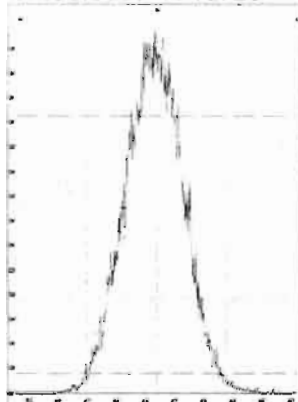
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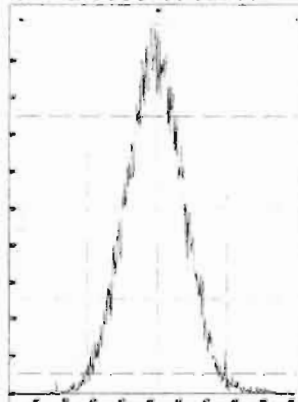
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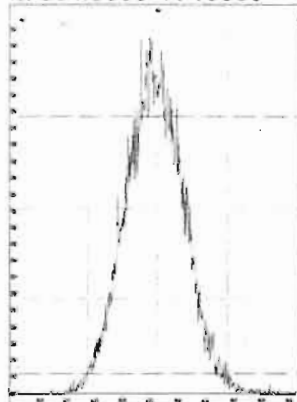
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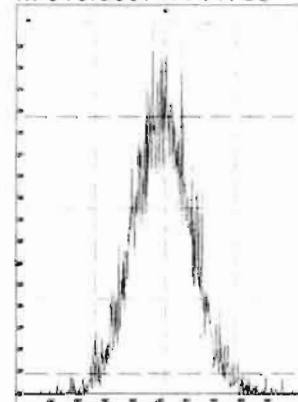
M 492.9696 R 10867



M 504.9696 R 10869



M 516.9697 R 11738



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 02/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24  
Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

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

Response Factor: 0.9819

RRF SD: 0.0791981, Relative SD: 8.06581

Response type: Internal Std ( Ref 2 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.08271

RRF SD: 0.0939058, Relative SD: 8.67318

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

**Compound name: 13C-1,2,3,4-TCDD**

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2\_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

**Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307**

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

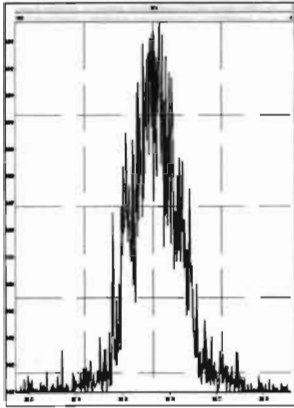
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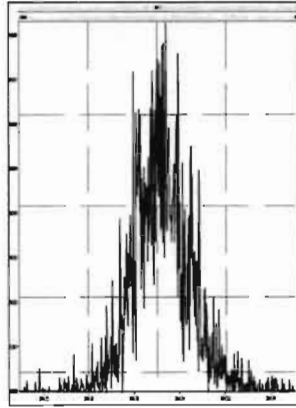
Compound name: 2,3,7,8-TCDF

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2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017 ...	12-Feb-20	03:52:45

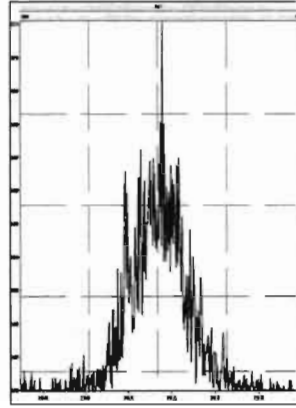
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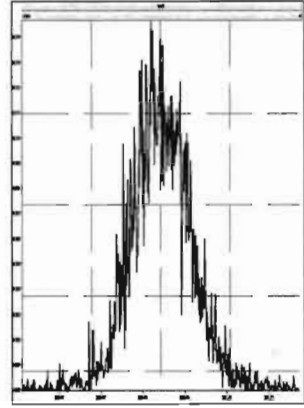
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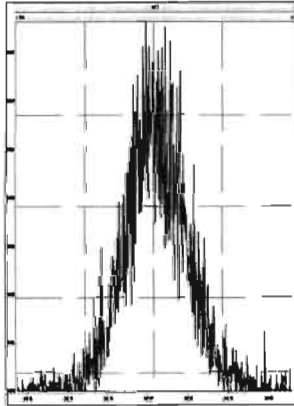
M 318.9792 R 15503



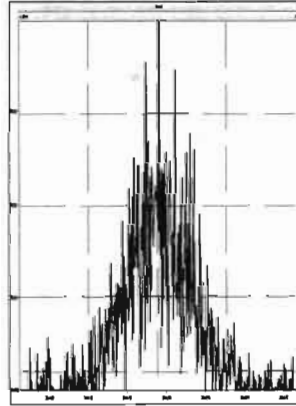
M 330.9792 R 11737



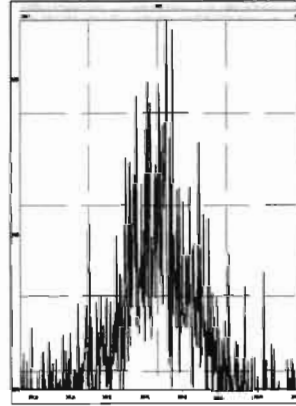
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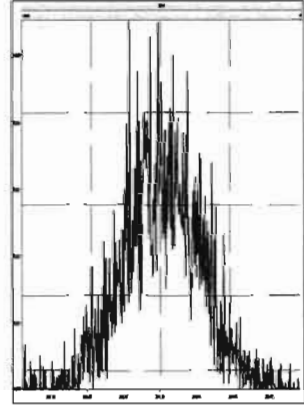
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M 366.9792 R 28256



M 380.9760 R 13094



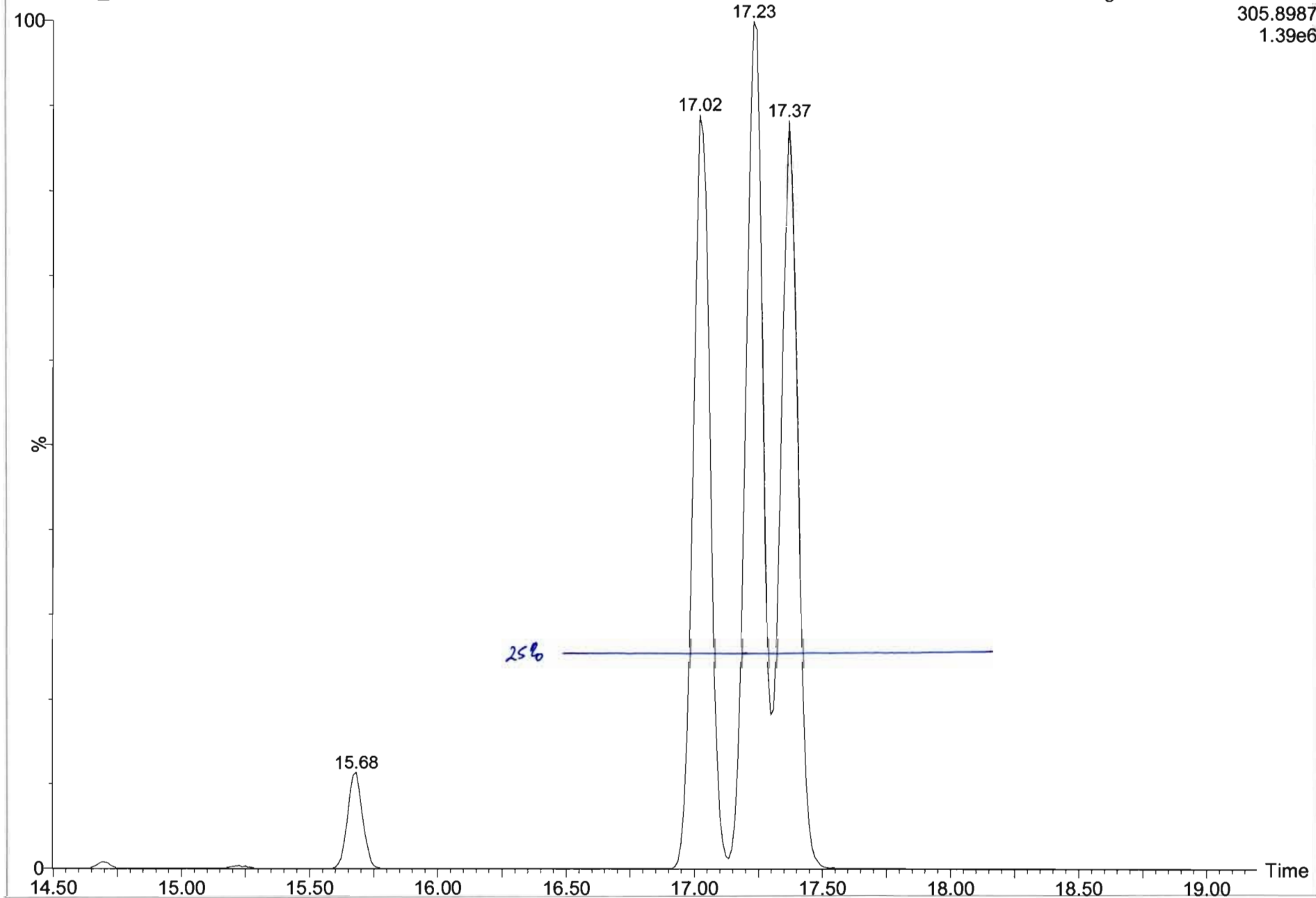
200211D2\_2

20:28:53

Voltage SIR 12 Channels EI+

305.8987

1.39e6



Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

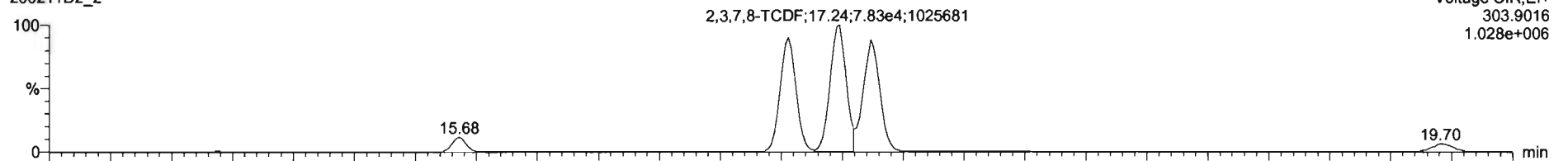
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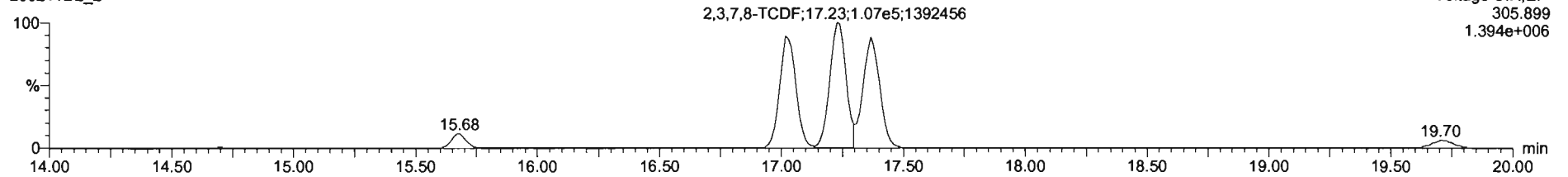
2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
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1.028e+006

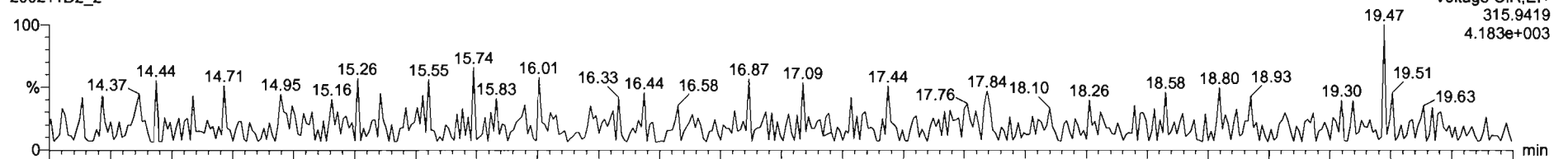
200211D2\_2



Voltage SIR,EI+  
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1.394e+006

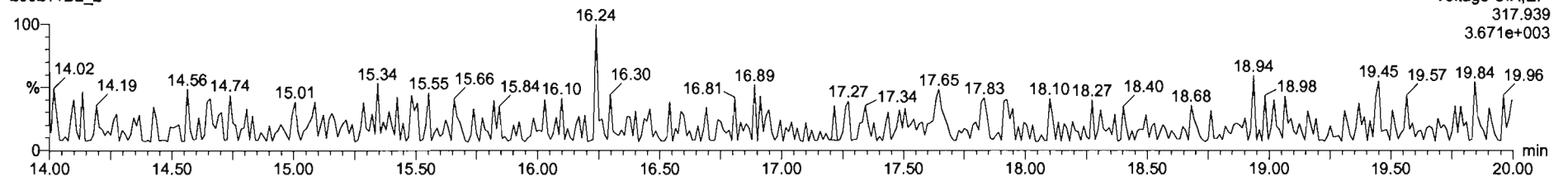
13C-2,3,7,8-TCDF

200211D2\_2



Voltage SIR,EI+  
315.9419  
4.183e+003

200211D2\_2



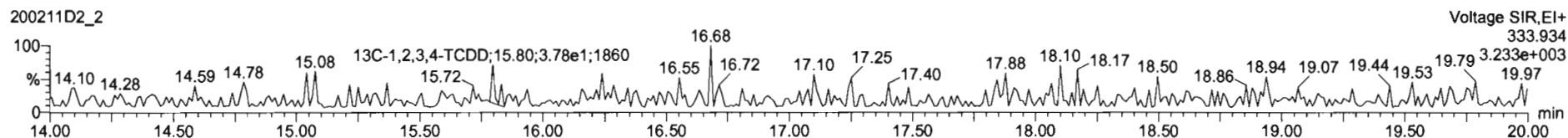
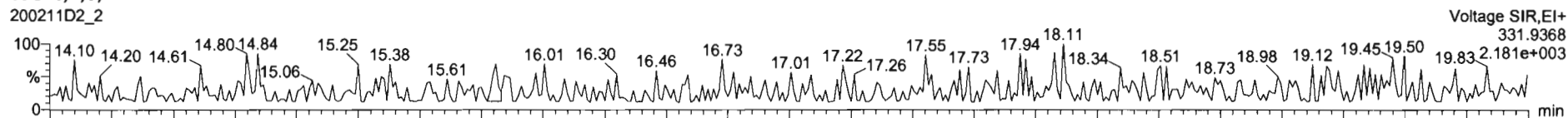
Voltage SIR,EI+  
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3.671e+003

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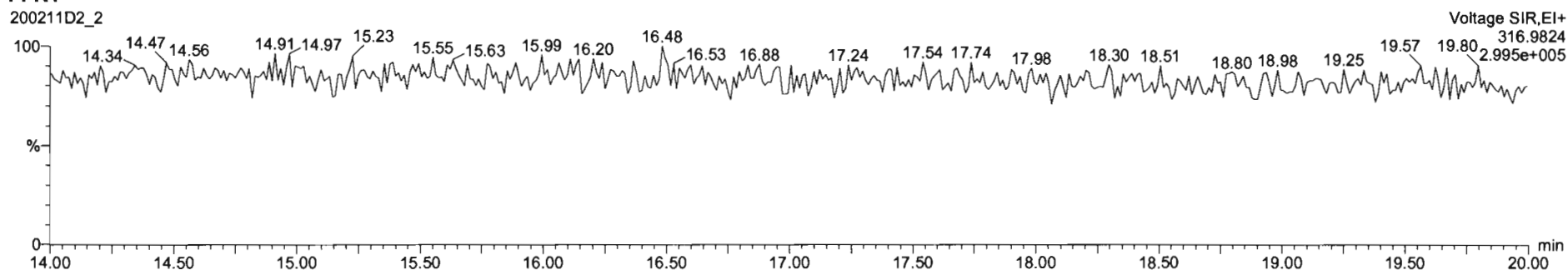
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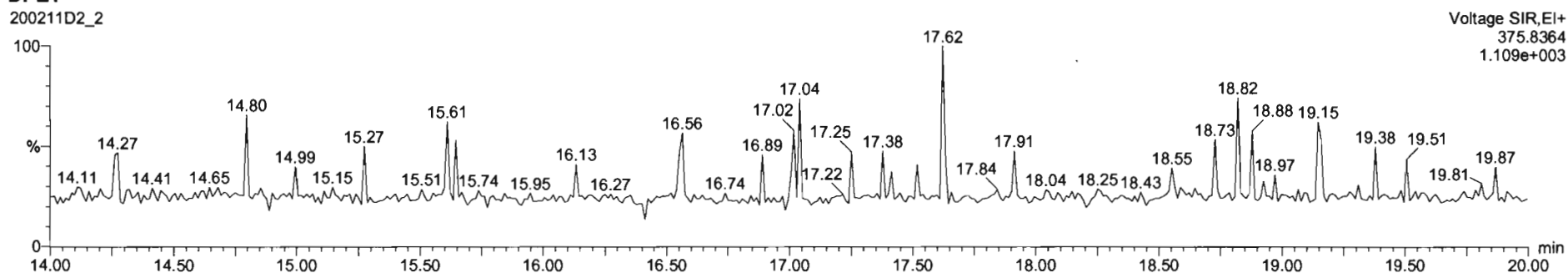
13C-1,2,3,4-TCDD



PFK1



DPE1



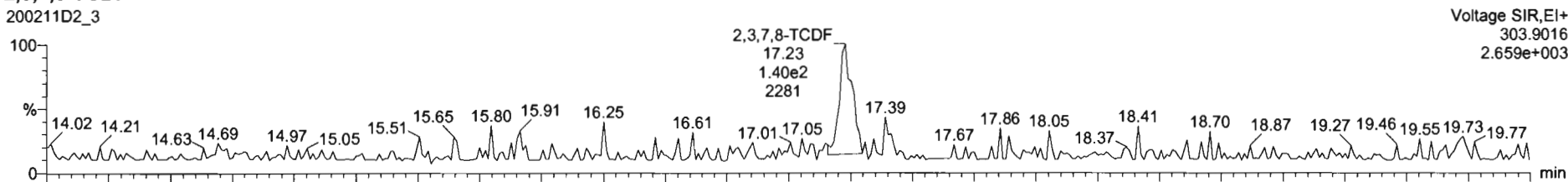
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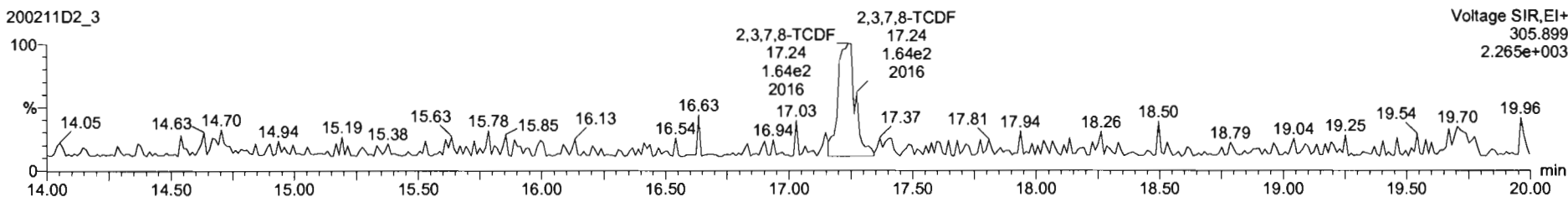
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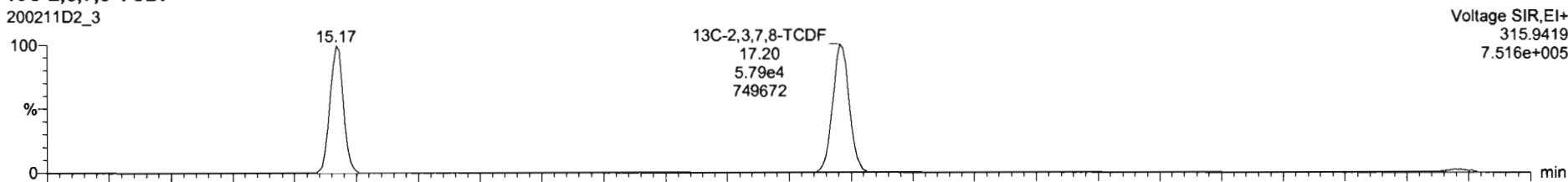
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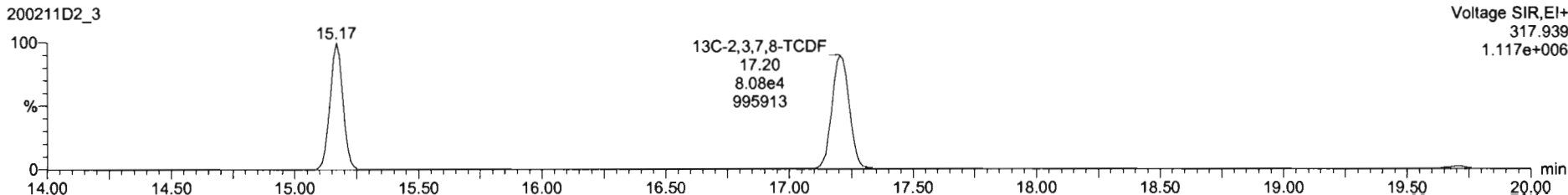
200211D2\_3



13C-2,3,7,8-TCDF  
200211D2\_3



200211D2\_3

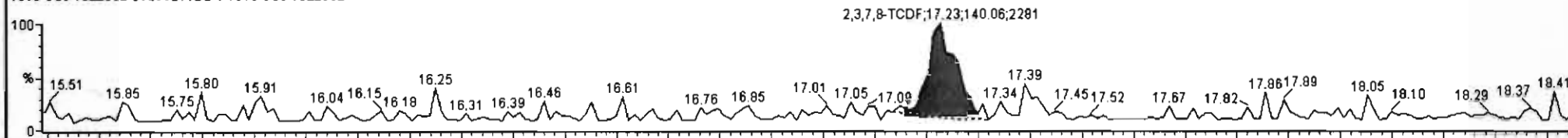




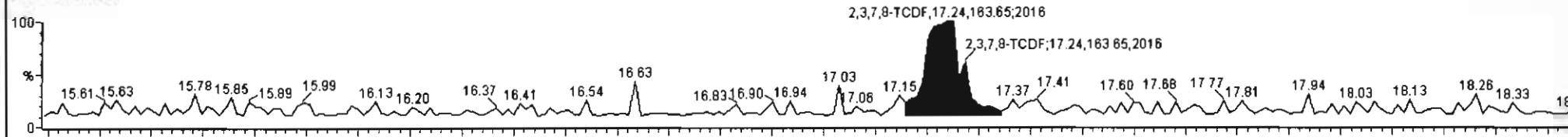
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1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

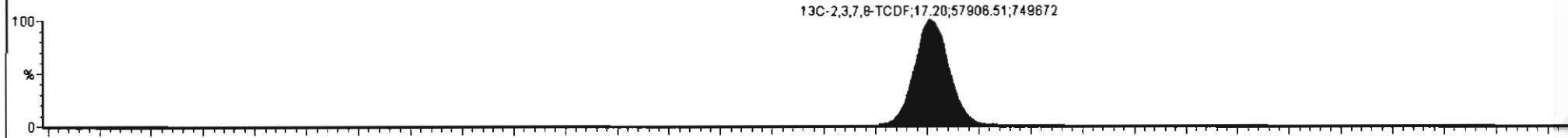
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1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



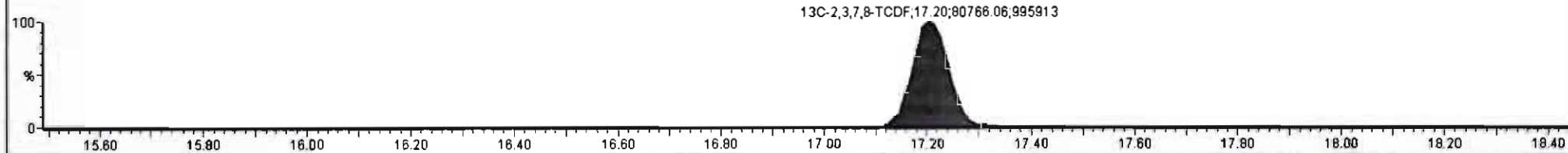
200211D2\_3  
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200211D2\_3  
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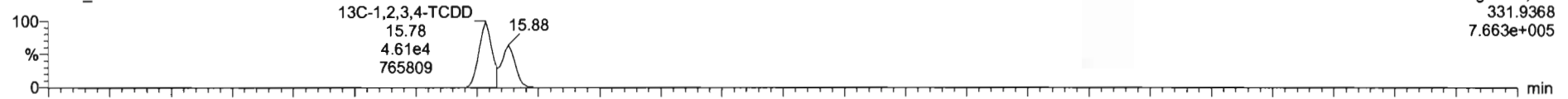
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

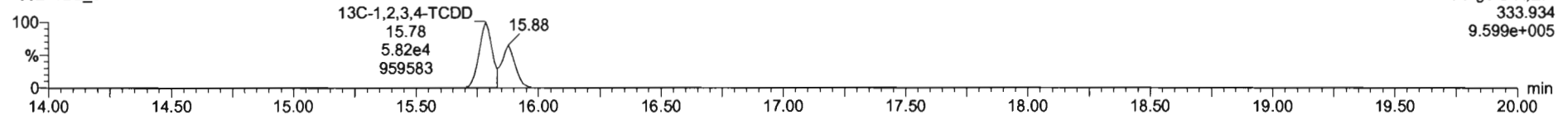
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13C-1,2,3,4-TCDD

200211D2\_3

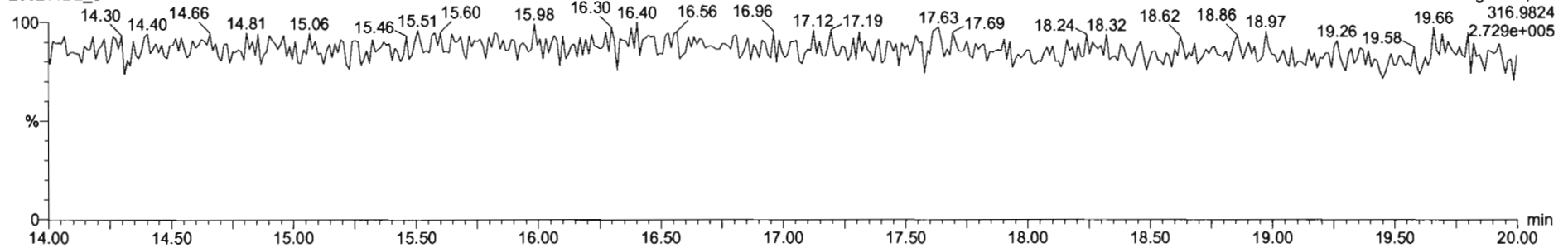


200211D2\_3



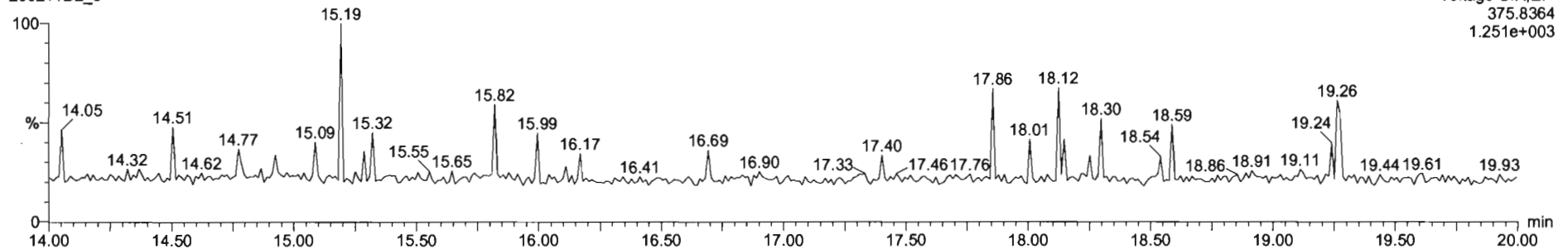
PFK1

200211D2\_3



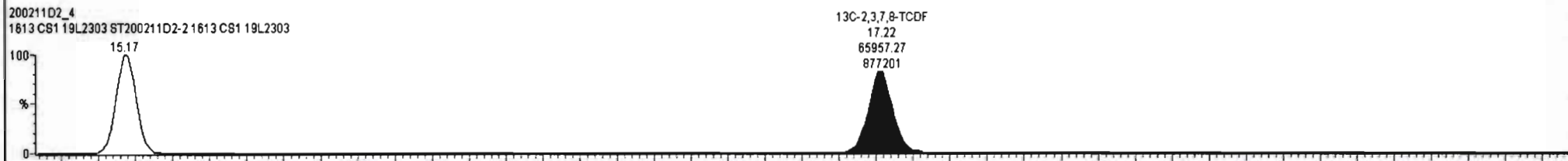
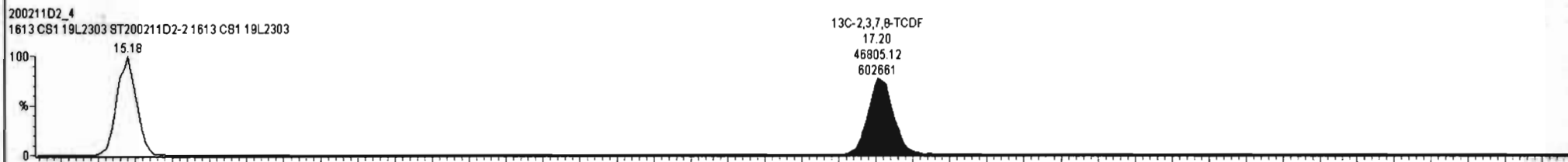
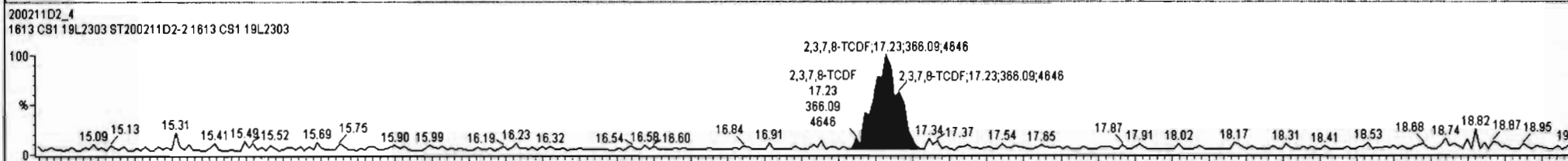
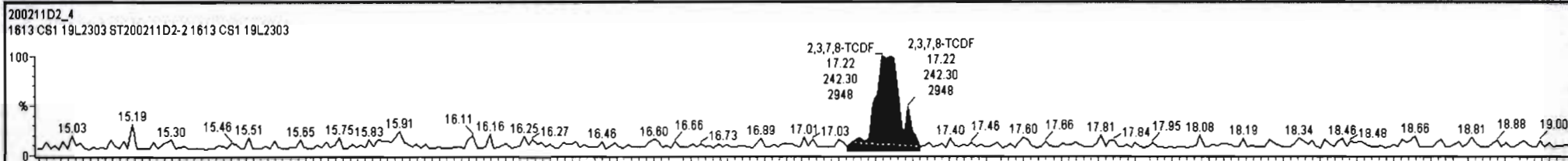
DPE1

200211D2\_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.09e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.549
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



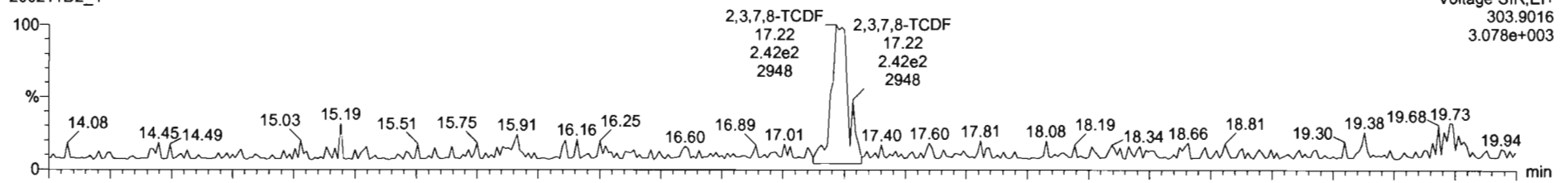
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

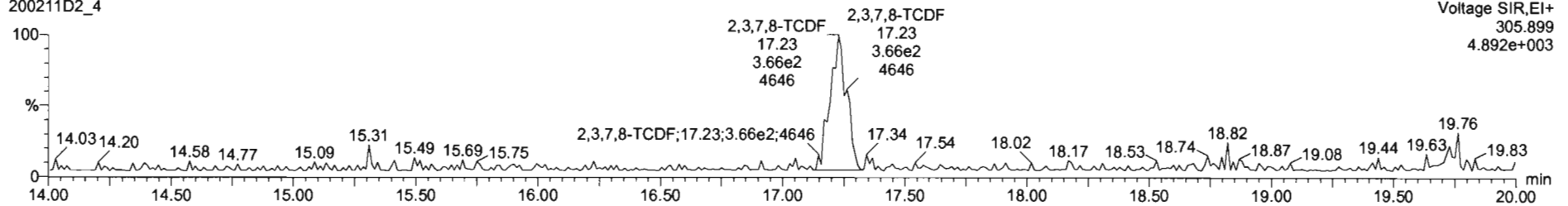
Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2\_4

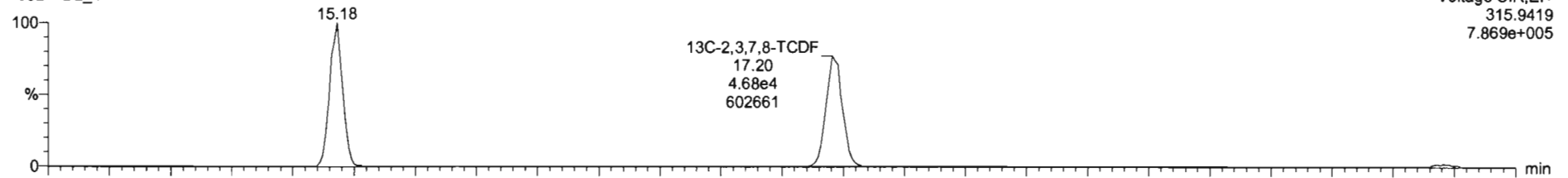


200211D2\_4

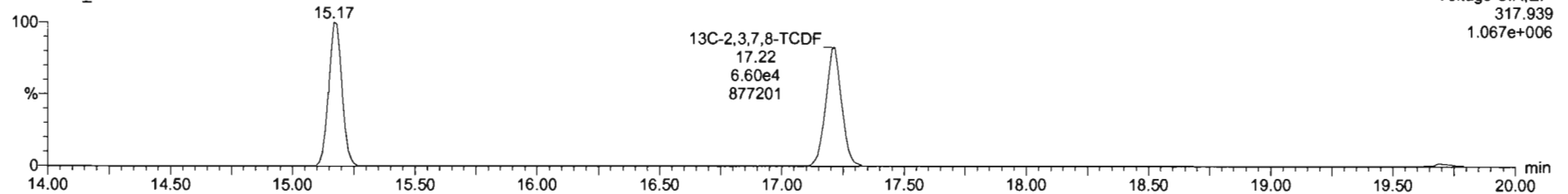


**13C-2,3,7,8-TCDF**

200211D2\_4



200211D2\_4



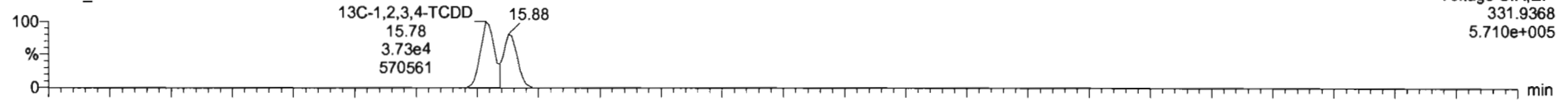
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

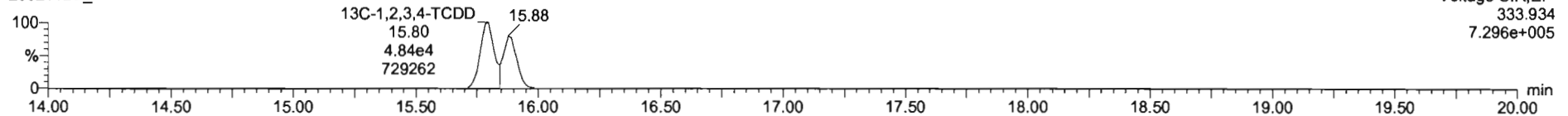
Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2\_4

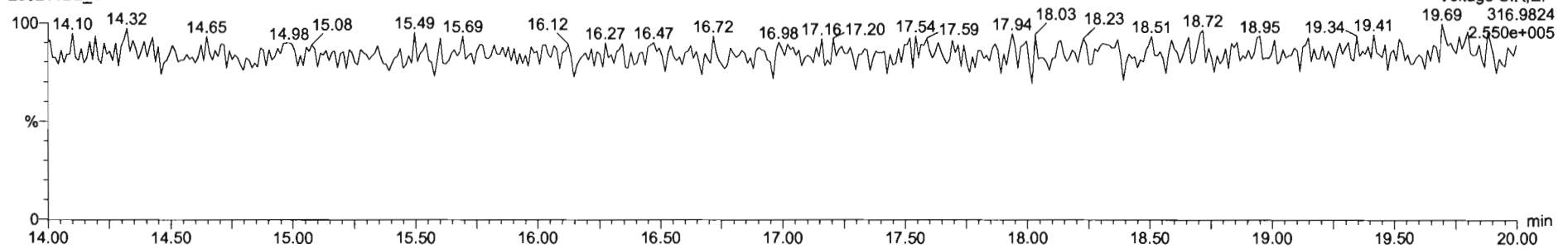


200211D2\_4



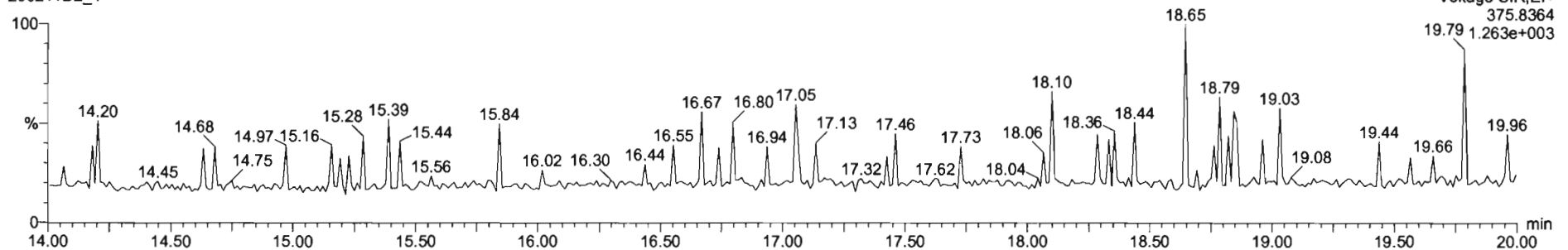
**PFK1**

200211D2\_4



**DPE1**

200211D2\_4



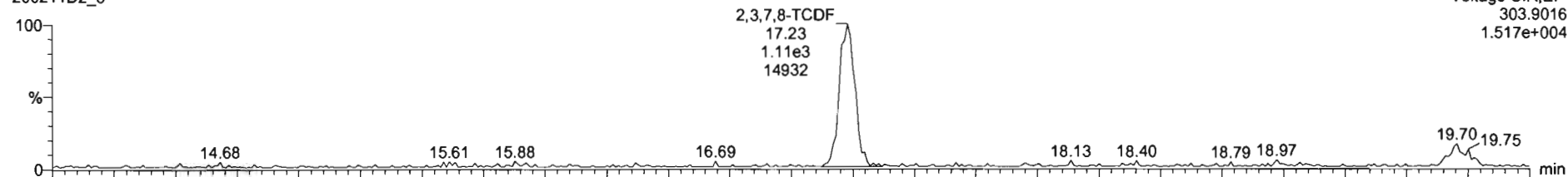
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

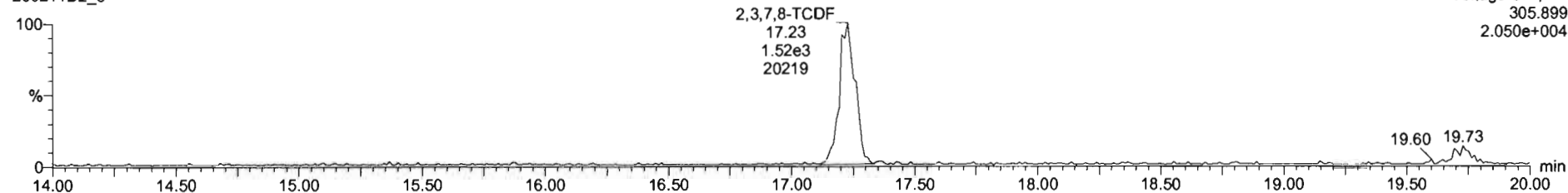
Name: 200211D2\_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

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

200211D2\_5

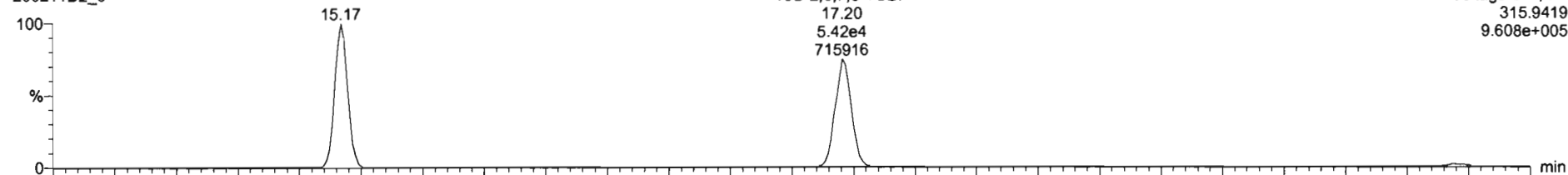


200211D2\_5

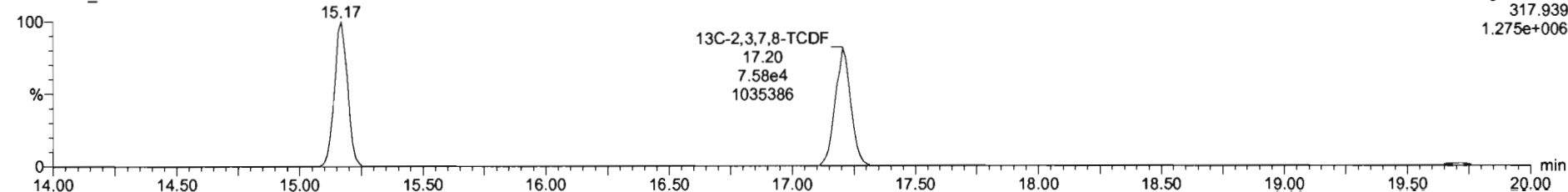


**13C-2,3,7,8-TCDF**

200211D2\_5



200211D2\_5

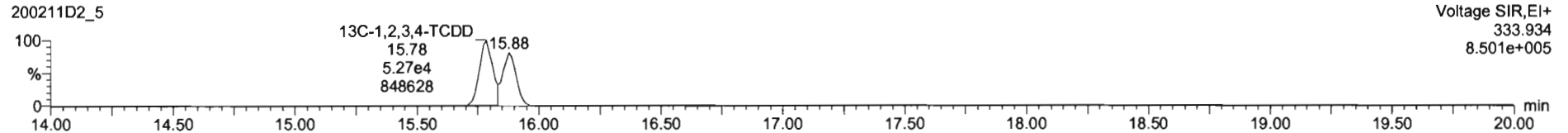
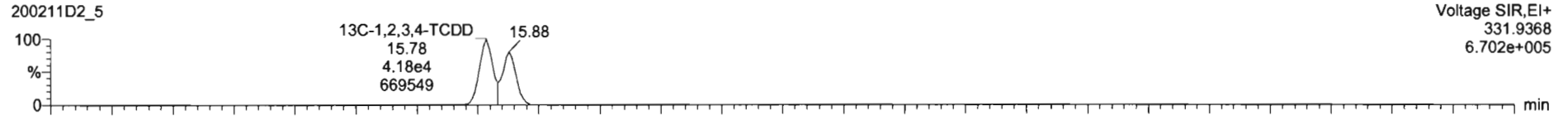


Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

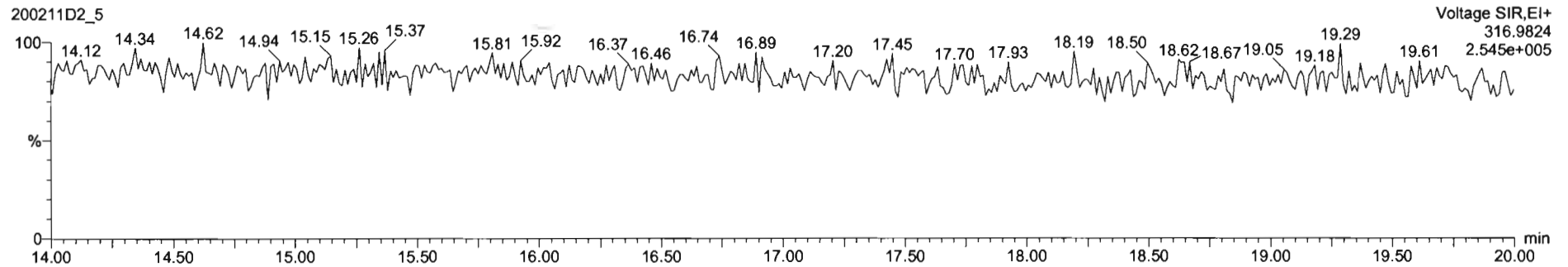
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2\_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

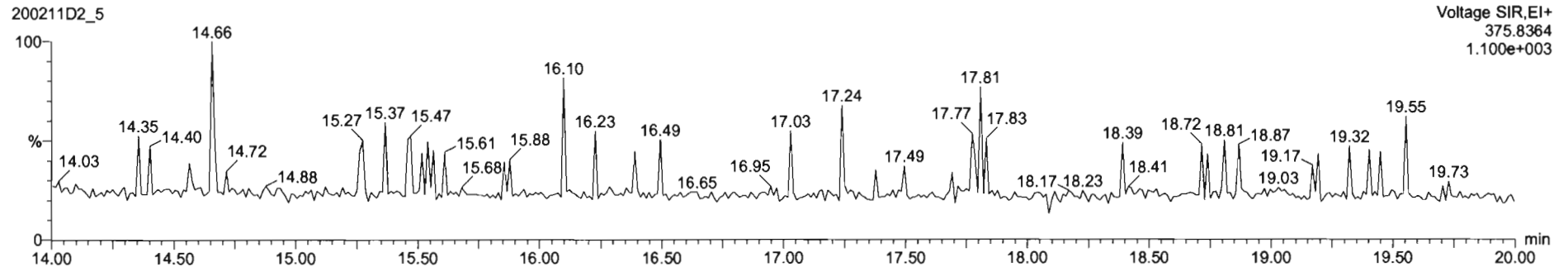
13C-1,2,3,4-TCDD



PFK1



DPE1



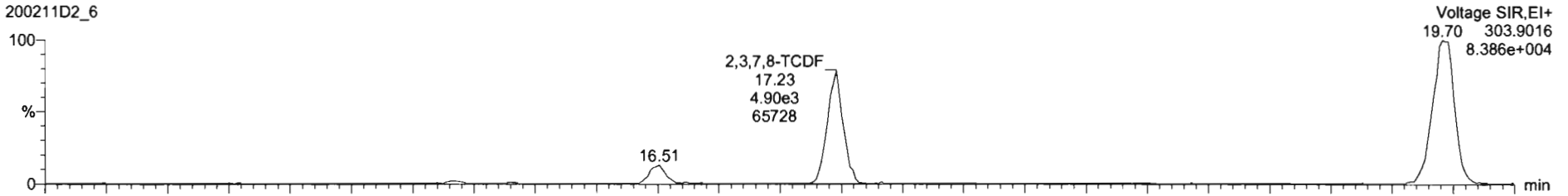
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

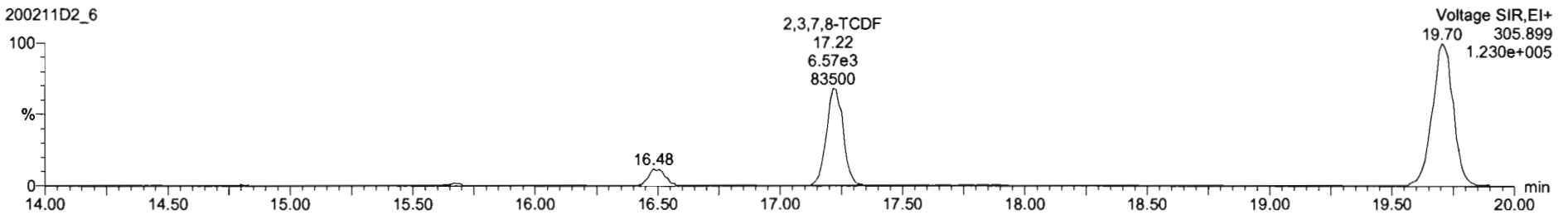
Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2\_6

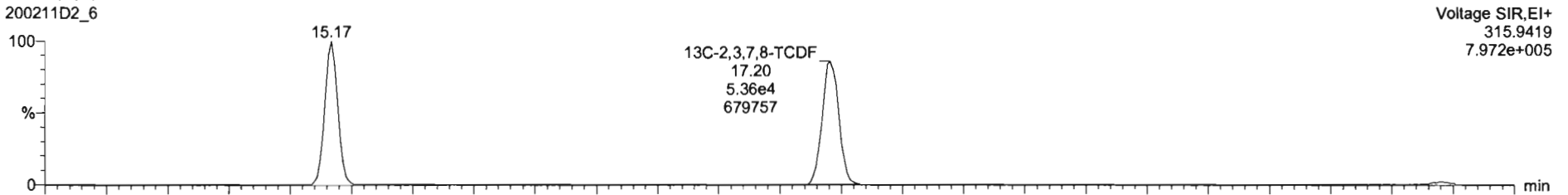


200211D2\_6

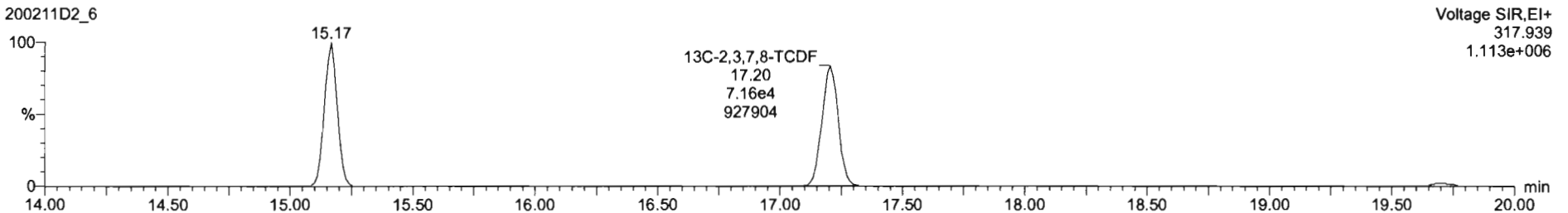


**13C-2,3,7,8-TCDF**

200211D2\_6



200211D2\_6





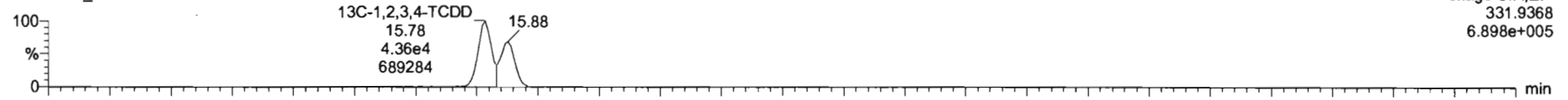
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

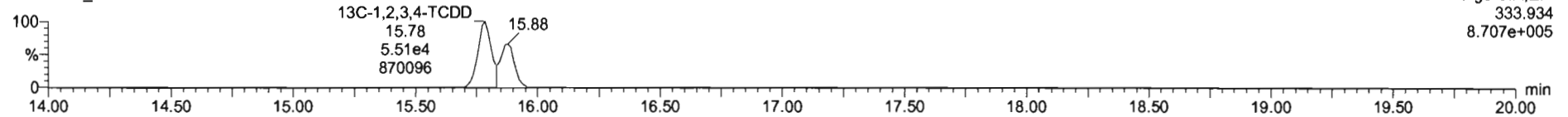
Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2\_6

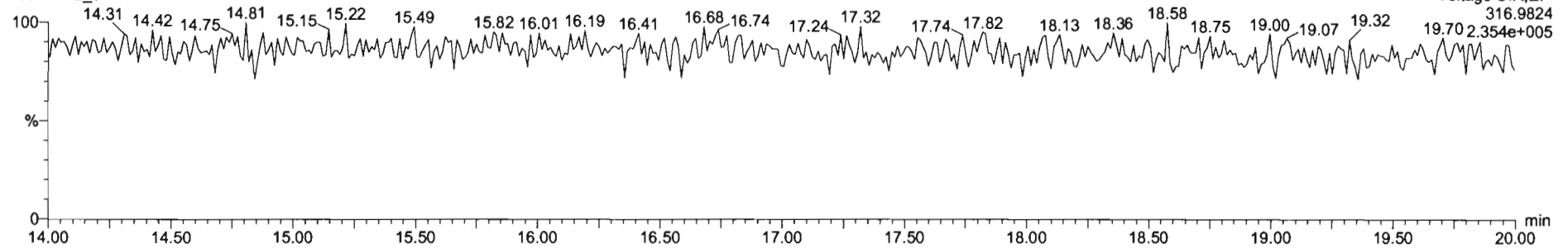


200211D2\_6



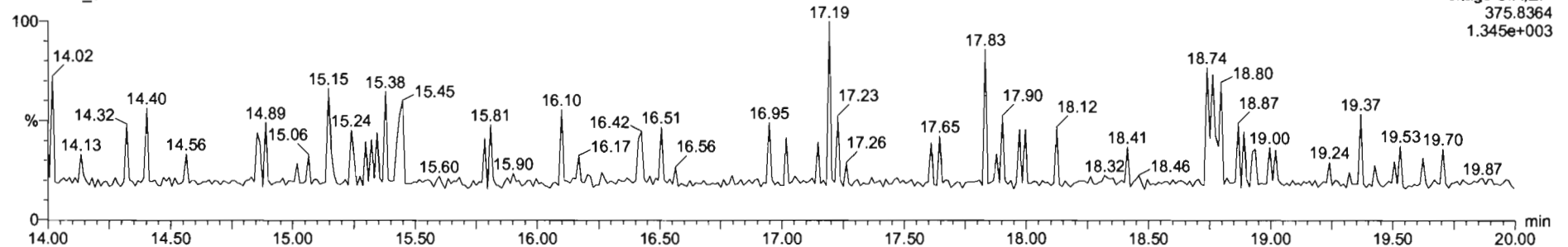
**PFK1**

200211D2\_6



**DPE1**

200211D2\_6



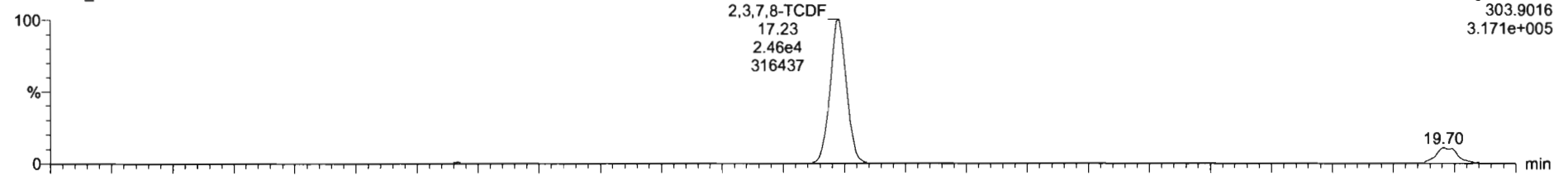
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

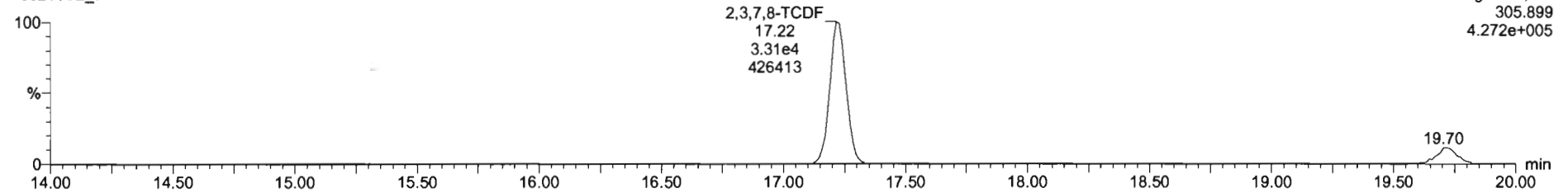
Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2\_7

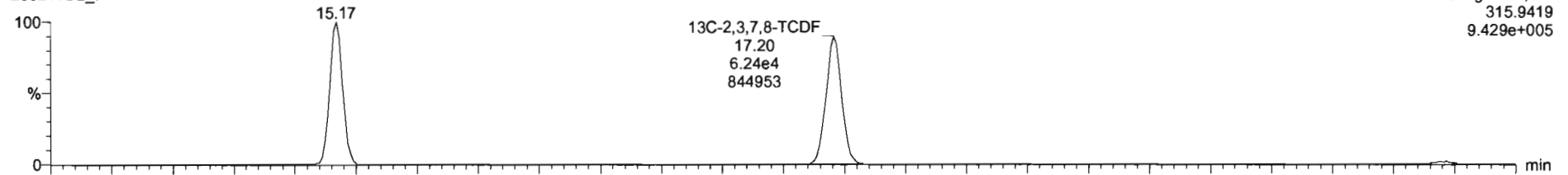


200211D2\_7

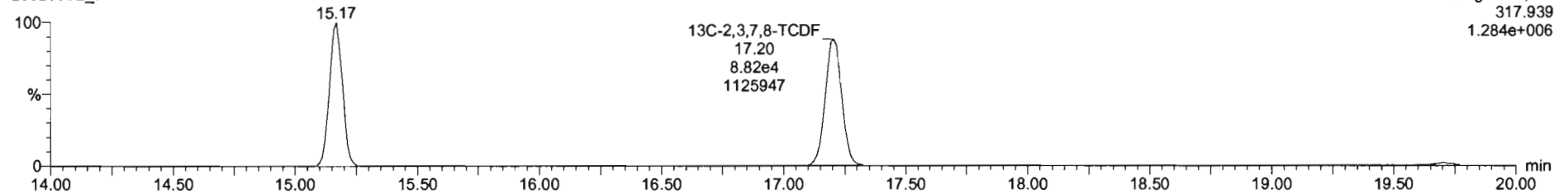


**13C-2,3,7,8-TCDF**

200211D2\_7



200211D2\_7



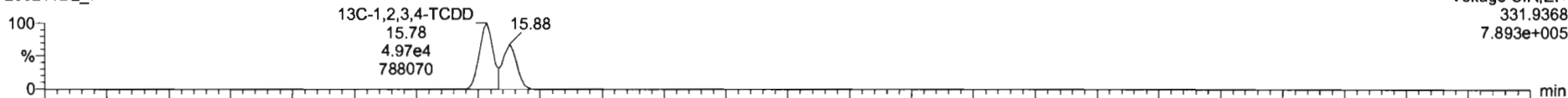
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

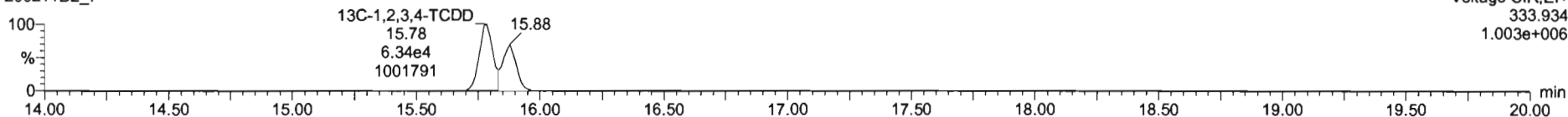
Name: 200211D2\_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2\_7

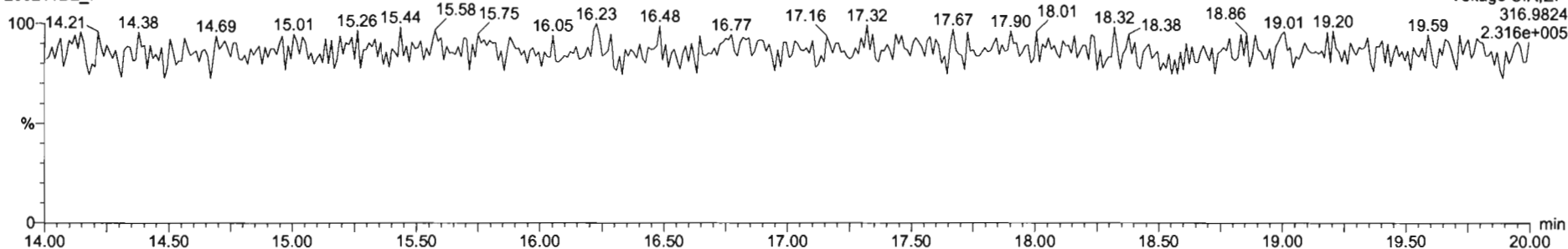


200211D2\_7



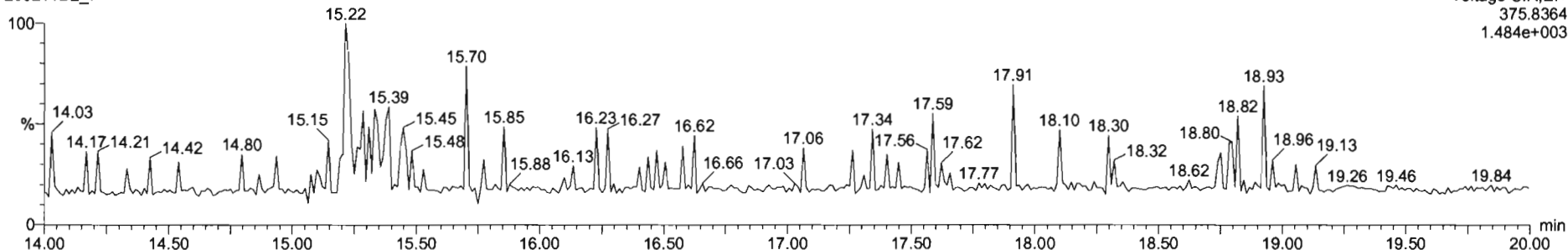
**PFK1**

200211D2\_7



**DPE1**

200211D2\_7



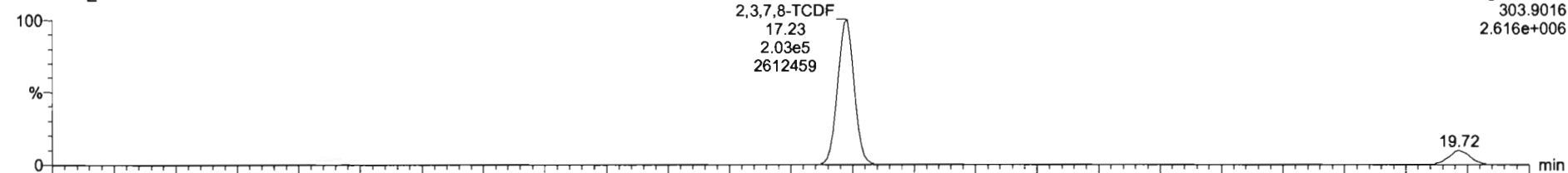
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

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

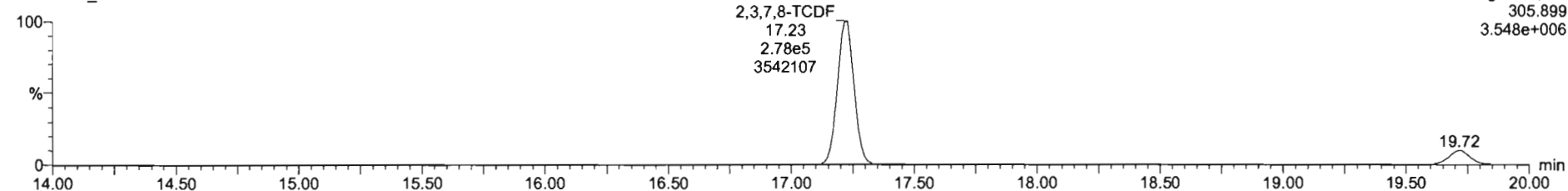
**2,3,7,8-TCDF**

200211D2\_8



Voltage SIR,EI+  
303.9016  
2.616e+006

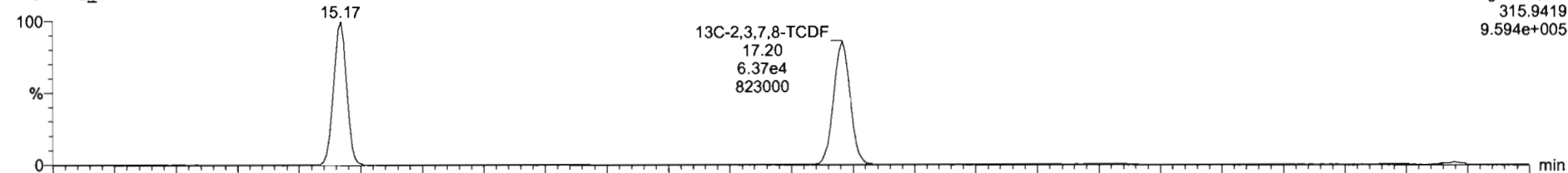
200211D2\_8



Voltage SIR,EI+  
305.899  
3.548e+006

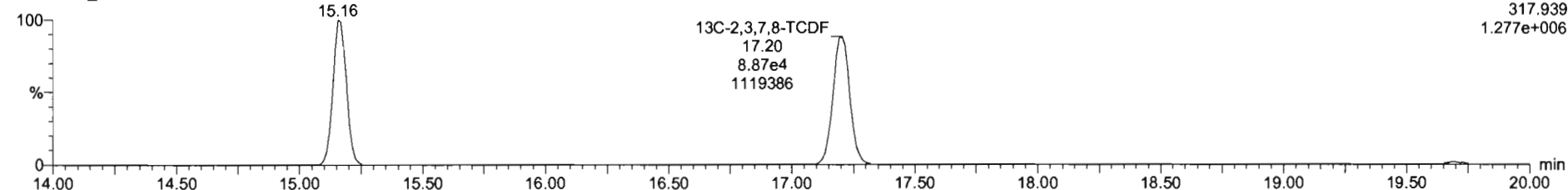
**13C-2,3,7,8-TCDF**

200211D2\_8



Voltage SIR,EI+  
315.9419  
9.594e+005

200211D2\_8



Voltage SIR,EI+  
317.939  
1.277e+006

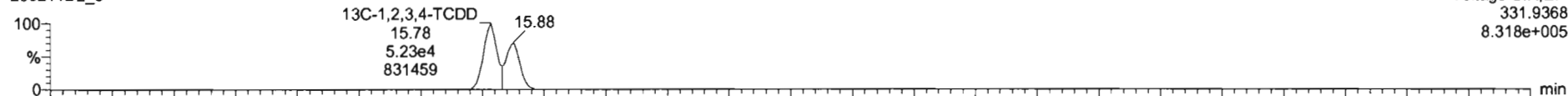
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

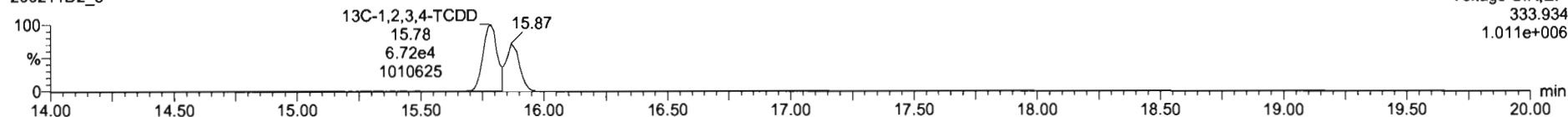
Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2\_8

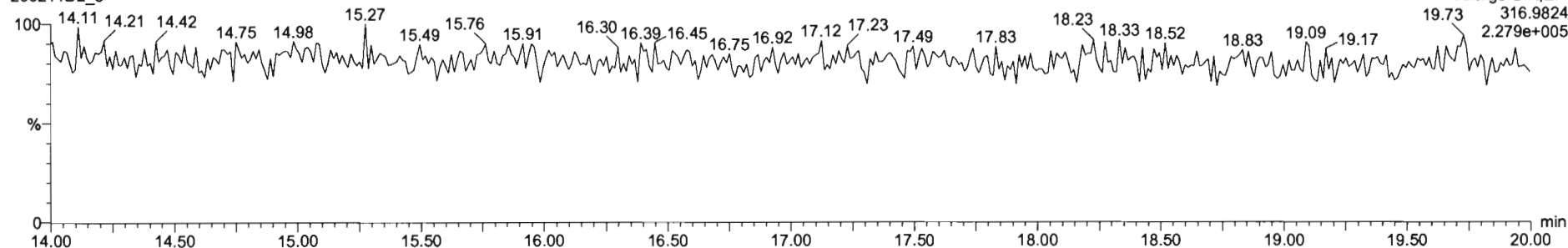


200211D2\_8



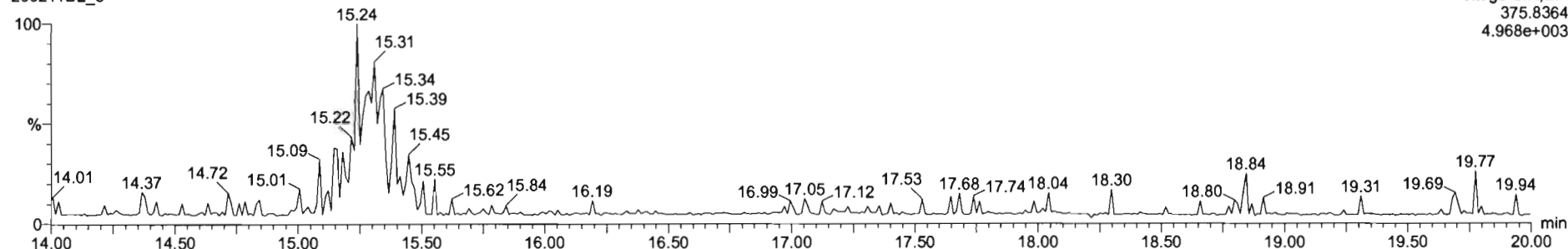
PFK1

200211D2\_8

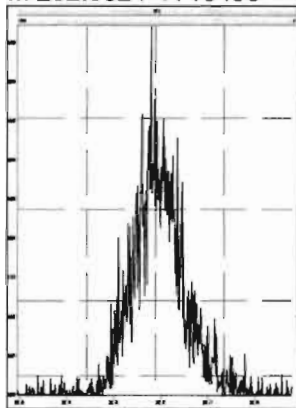


DPE1

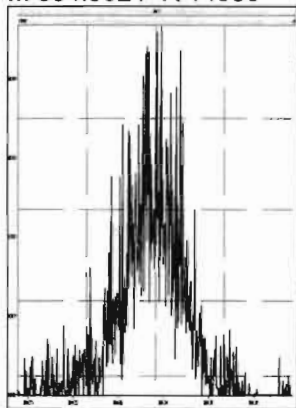
200211D2\_8



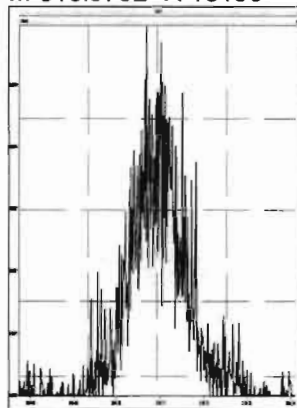
M 292.9824 R 13493



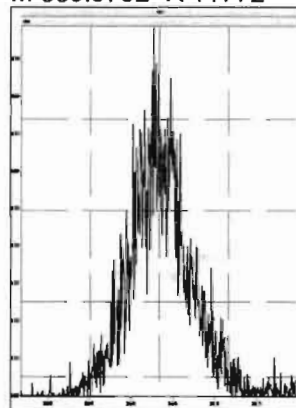
M 304.9824 R 14983



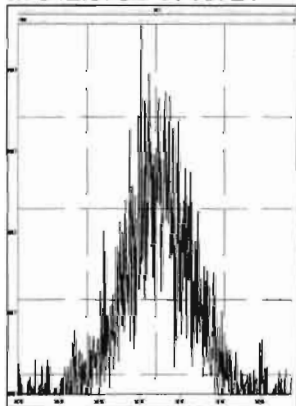
M 318.9792 R 15196



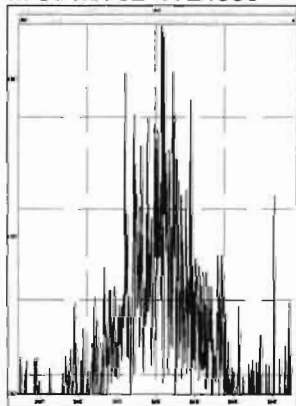
M 330.9792 R 11772



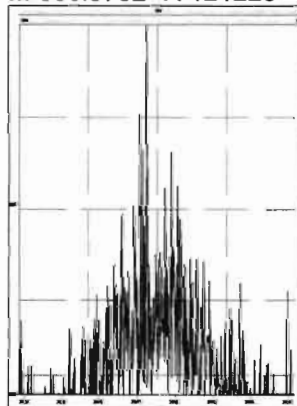
M 342.9792 R 13721



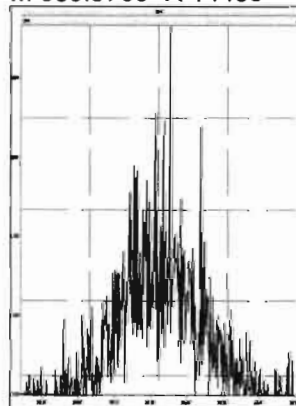
M 354.9792 R 24553



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

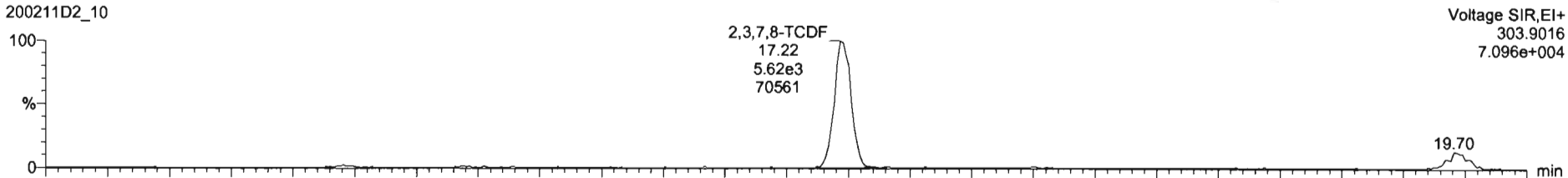
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

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

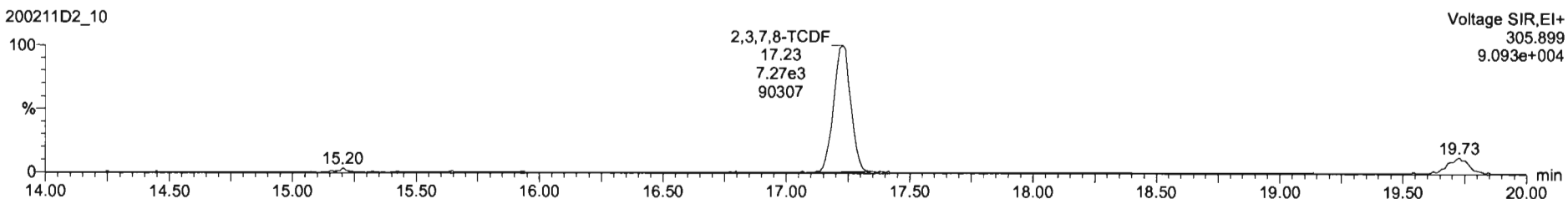
Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2\_10

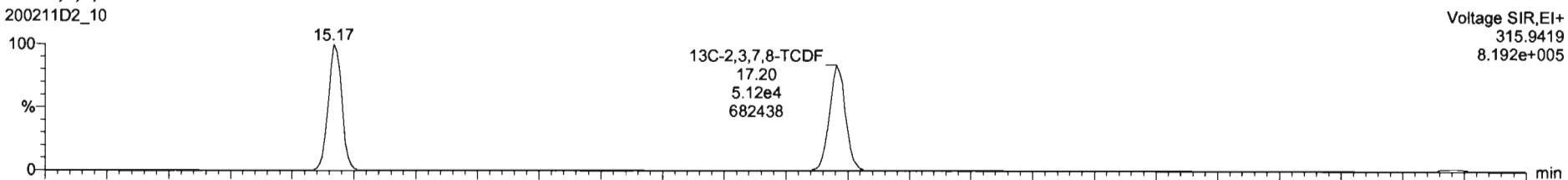


200211D2\_10

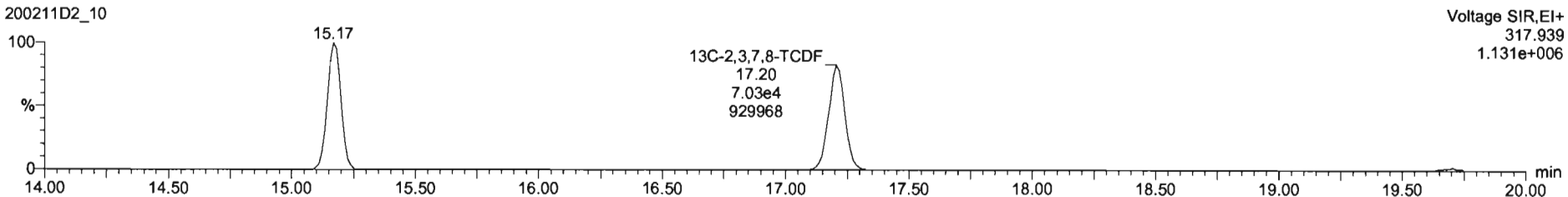


**13C-2,3,7,8-TCDF**

200211D2\_10



200211D2\_10





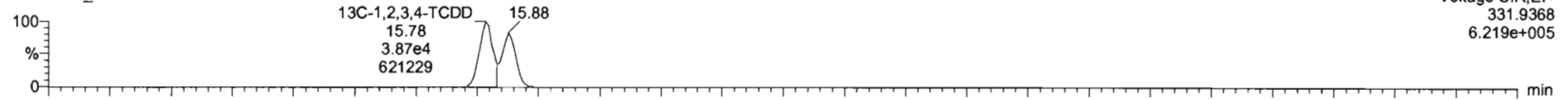
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time  
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

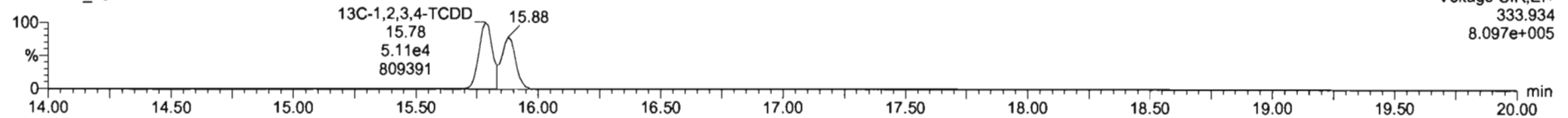
Name: 200211D2\_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2\_10

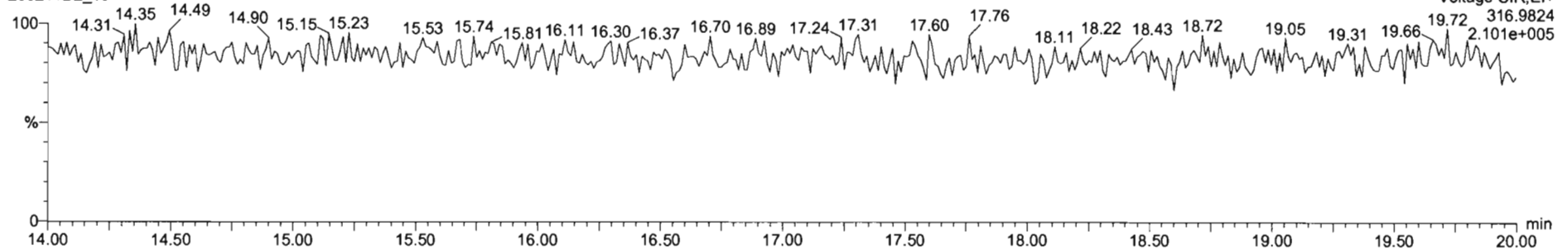


200211D2\_10



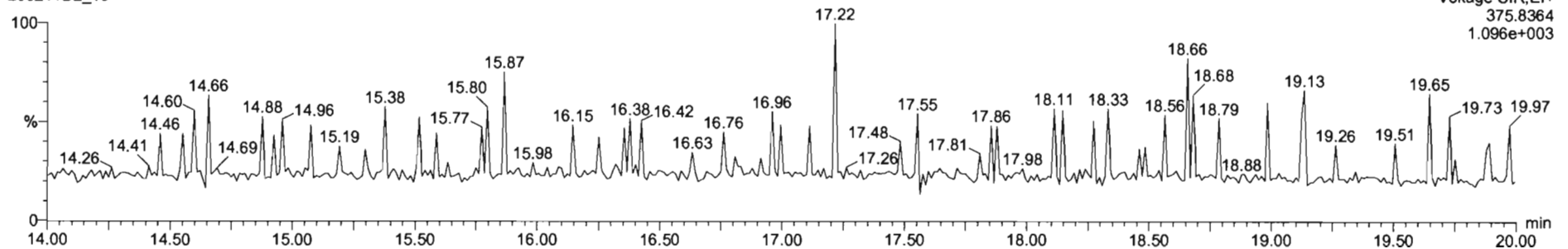
**PFK1**

200211D2\_10



**DPE1**

200211D2\_10



Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

Last Altered: Monday, April 20, 2020 10:18:06 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 11:15:52 AM Pacific Daylight Time

*GRB 04/20/2020*

*LT 04/20/2020*

*\*HIGH PT. @ 400, NOT 1000*

*CS5 PT. FILE CORRUPTED*

*SO PT. WAS DROPPED*

Method: U:\VG12.PRO\MethDB\PCB-209\_ZB1\_4-17-20.mdb 18 Apr 2020 09:45:17  
 Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

Compound name: PCB-1  
 Response Factor: 1.08232  
 RRF SD: 0.0787734, Relative SD: 7.27821  
 Response type: Internal Std ( Ref 169 ), 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	200417R1_1	0.200	3.11	NO	15.53	1.002	9.28e3	4.35e6	0.197	-1.5	1.07	bd
2	200417R1_2	0.250	3.04	NO	15.53	1.002	1.05e4	4.32e6	0.225	-9.8	0.976	bd
3	200417R1_3	1.00	3.20	NO	15.53	1.002	4.97e4	4.74e6	0.968	-3.2	1.05	bd
4	200417R1_4	2.50	3.21	NO	15.59	1.002	1.13e5	4.28e6	2.44	-2.3	1.06	MM
5	200417R1_5	50.0	3.18	NO	15.48	1.001	1.66e6	2.88e6	53.3	6.5	1.15	MM
6	200417R1_6	400	3.15	NO	15.48	1.002	1.81e7	3.78e6	441	10.3	1.19	MM

Compound name: PCB-2  
 Response Factor: 1.02595  
 RRF SD: 0.115002, Relative SD: 11.2093  
 Response type: Internal Std ( Ref 170 ), 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	200417R1_1	0.200	3.14	NO	17.92	0.988	8.47e3	4.45e6	0.186	-7.2	0.952	bd
2	200417R1_2	0.250	3.03	NO	17.93	0.988	1.01e4	4.48e6	0.220	-12.2	0.901	bd
3	200417R1_3	1.00	3.27	NO	17.92	0.988	4.74e4	4.91e6	0.942	-5.8	0.966	bd
4	200417R1_4	2.50	3.26	NO	17.98	0.988	1.11e5	4.41e6	2.46	-1.7	1.01	bd
5	200417R1_5	50.0	3.18	NO	17.89	0.988	1.66e6	2.95e6	54.8	9.6	1.12	bd
6	200417R1_6	400	3.17	NO	17.88	0.988	1.84e7	3.83e6	469	17.3	1.20	bd

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**Compound name: PCB-3**

Response Factor: 1.07981

RRF SD: 0.0839653, Relative SD: 7.7759

Response type: Internal Std ( Ref 170 ), 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	200417R1_1	0.200	3.17	NO	18.16	1.001	9.20e3	4.45e6	0.192	-4.2	1.03	db
2	200417R1_2	0.250	3.18	NO	18.17	1.001	1.12e4	4.48e6	0.232	-7.3	1.00	dd
3	200417R1_3	1.00	3.18	NO	18.16	1.001	5.03e4	4.91e6	0.948	-5.2	1.02	MM
4	200417R1_4	2.50	3.20	NO	18.21	1.001	1.16e5	4.41e6	2.44	-2.4	1.05	MM
5	200417R1_5	50.0	3.17	NO	18.12	1.001	1.70e6	2.95e6	53.3	6.7	1.15	MM
6	200417R1_6	400	3.16	NO	18.12	1.001	1.86e7	3.83e6	450	12.4	1.21	MM

**Compound name: PCB-4/10**

Response Factor: 0.896734

RRF SD: 0.126548, Relative SD: 14.1121

Response type: Internal Std ( Ref 171 ), 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	200417R1_1	0.400	1.55	NO	19.58	1.004	8.94e3	2.80e6	0.356	-10.9	0.799	MM
2	200417R1_2	0.500	1.43	NO	19.58	1.004	1.07e4	2.82e6	0.425	-15.0	0.762	MM
3	200417R1_3	2.00	1.49	NO	19.58	1.004	5.08e4	3.06e6	1.85	-7.5	0.829	MM
4	200417R1_4	5.00	1.47	NO	19.63	1.004	1.23e5	2.76e6	4.96	-0.9	0.889	MM
5	200417R1_5	100	1.48	NO	19.53	1.004	1.99e6	1.92e6	115	15.1	1.03	bb
6	200417R1_6	800	1.48	NO	19.52	1.004	2.10e7	2.46e6	953	19.1	1.07	MM

**Compound name: PCB-7/9**

Response Factor: 0.715225

RRF SD: 0.0840781, Relative SD: 11.7555

Response type: Internal Std ( Ref 172 ), 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	200417R1_1	0.400	1.37	NO	21.36	1.002	1.16e4	4.28e6	0.379	-5.2	0.678	bb
2	200417R1_2	0.500	1.54	NO	21.38	1.002	1.30e4	4.27e6	0.426	-14.9	0.609	bb

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**Compound name: PCB-7/9**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	2.00	1.46	NO	21.35	1.002	6.20e4	4.62e6	1.87	-6.3	0.670	bb
4	200417R1_4	5.00	1.49	NO	21.40	1.002	1.47e5	4.17e6	4.94	-1.2	0.707	bb
5	200417R1_5	100	1.47	NO	21.32	1.002	2.45e6	3.10e6	111	10.6	0.791	bb
6	200417R1_6	800	1.47	NO	21.32	1.002	2.52e7	3.77e6	936	17.0	0.836	bb

**Compound name: PCB-6**

Response Factor: 0.729098

RRF SD: 0.107537, Relative SD: 14.7493

Response type: Internal Std ( Ref 172 ), 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	200417R1_1	0.200	1.57	NO	22.02	1.033	5.78e3	4.28e6	0.185	-7.3	0.676	bb
2	200417R1_2	0.250	1.53	NO	22.02	1.033	6.25e3	4.27e6	0.201	-19.7	0.585	bd
3	200417R1_3	1.00	1.52	NO	22.02	1.033	3.17e4	4.62e6	0.940	-6.0	0.685	bb
4	200417R1_4	2.50	1.48	NO	22.06	1.033	7.51e4	4.17e6	2.47	-1.1	0.721	bb
5	200417R1_5	50.0	1.49	NO	21.98	1.033	1.28e6	3.10e6	56.8	13.6	0.828	bb
6	200417R1_6	400	1.48	NO	21.97	1.033	1.33e7	3.77e6	482	20.5	0.879	bb

**Compound name: PCB-5/8**

Response Factor: 0.721613

RRF SD: 0.101032, Relative SD: 14.0009

Response type: Internal Std ( Ref 172 ), 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	200417R1_1	0.400	1.41	NO	22.45	1.054	1.11e4	4.28e6	0.361	-9.8	0.651	MM
2	200417R1_2	0.500	1.43	NO	22.45	1.053	1.30e4	4.27e6	0.421	-15.8	0.607	bb
3	200417R1_3	2.00	1.49	NO	22.42	1.052	6.21e4	4.62e6	1.86	-6.9	0.672	bb
4	200417R1_4	5.00	1.48	NO	22.47	1.052	1.48e5	4.17e6	4.94	-1.2	0.713	bb
5	200417R1_5	100	1.48	NO	22.39	1.052	2.55e6	3.10e6	114	14.2	0.824	bb
6	200417R1_6	800	1.48	NO	22.38	1.052	2.60e7	3.77e6	957	19.6	0.863	bb

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**Compound name: PCB-14**

Response Factor: 0.752943

RRF SD: 0.0990214, Relative SD: 13.1512

Response type: Internal Std ( Ref 173 ), 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	200417R1_1	0.200	1.38	NO	23.55	0.952	5.60e3	4.04e6	0.184	-7.8	0.694	bb
2	200417R1_2	0.250	1.35	NO	23.56	0.952	6.44e3	4.01e6	0.213	-14.6	0.643	bb
3	200417R1_3	1.00	1.52	NO	23.55	0.952	3.07e4	4.40e6	0.926	-7.4	0.698	bd
4	200417R1_4	2.50	1.56	NO	23.60	0.952	7.26e4	3.93e6	2.45	-1.8	0.739	bd
5	200417R1_5	50.0	1.49	NO	23.52	0.952	1.35e6	3.22e6	55.9	11.8	0.842	bd
6	200417R1_6	400	1.48	NO	23.51	0.952	1.32e7	3.65e6	479	19.8	0.902	bd

**Compound name: PCB-11**

Response Factor: 0.83411

RRF SD: 0.083005, Relative SD: 9.95132

Response type: Internal Std ( Ref 173 ), 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	200417R1_1	0.200	1.55	NO	24.76	1.001	6.69e3	4.04e6	0.199	-0.7	0.828	bb
2	200417R1_2	0.250	1.58	NO	24.78	1.001	7.41e3	4.01e6	0.222	-11.3	0.740	bb
3	200417R1_3	1.00	1.49	NO	24.76	1.001	3.38e4	4.40e6	0.922	-7.8	0.769	db
4	200417R1_4	2.50	1.50	NO	24.81	1.001	7.87e4	3.93e6	2.40	-3.9	0.802	db
5	200417R1_5	50.0	1.49	NO	24.73	1.001	1.47e6	3.22e6	54.7	9.5	0.913	db
6	200417R1_6	400	1.49	NO	24.72	1.001	1.39e7	3.65e6	457	14.2	0.952	db

**Compound name: PCB-12/13**

Response Factor: 0.733093

RRF SD: 0.106213, Relative SD: 14.4884

Response type: Internal Std ( Ref 173 ), 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	200417R1_1	0.400	1.42	NO	25.14	1.016	1.08e4	4.04e6	0.366	-8.6	0.670	MM
2	200417R1_2	0.500	1.45	NO	25.20	1.018	1.24e4	4.01e6	0.423	-15.5	0.620	MM

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**Compound name: PCB-12/13**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	2.00	1.45	NO	25.14	1.016	5.85e4	4.40e6	1.82	-9.2	0.666	MM
4	200417R1_4	5.00	1.46	NO	25.18	1.016	1.42e5	3.93e6	4.92	-1.6	0.721	MM
5	200417R1_5	100	1.47	NO	25.10	1.016	2.66e6	3.22e6	113	12.8	0.827	MM
6	200417R1_6	800	1.47	NO	25.09	1.016	2.61e7	3.65e6	976	22.1	0.895	MM

**Compound name: PCB-15**

Response Factor: 0.781877

RRF SD: 0.0871716, Relative SD: 11.149

Response type: Internal Std ( Ref 173 ), 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	200417R1_1	0.200	1.46	NO	25.48	1.030	5.88e3	4.04e6	0.186	-6.9	0.728	MM
2	200417R1_2	0.250	1.40	NO	25.49	1.030	7.11e3	4.01e6	0.227	-9.2	0.710	MM
3	200417R1_3	1.00	1.49	NO	25.49	1.030	3.13e4	4.40e6	0.909	-9.1	0.711	MM
4	200417R1_4	2.50	1.52	NO	25.53	1.030	7.54e4	3.93e6	2.45	-1.8	0.767	MM
5	200417R1_5	50.0	1.47	NO	25.45	1.030	1.37e6	3.22e6	54.5	9.0	0.852	MM
6	200417R1_6	400	1.47	NO	25.44	1.030	1.35e7	3.65e6	472	18.0	0.923	MM

**Compound name: PCB-19**

Response Factor: 1.06022

RRF SD: 0.104765, Relative SD: 9.8815

Response type: Internal Std ( Ref 174 ), 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	200417R1_1	0.200	1.12	NO	23.73	1.001	4.64e3	2.24e6	0.196	-2.1	1.04	bb
2	200417R1_2	0.250	1.05	NO	23.74	1.001	5.24e3	2.23e6	0.222	-11.3	0.940	bb
3	200417R1_3	1.00	1.05	NO	23.73	1.001	2.41e4	2.44e6	0.929	-7.1	0.985	bb
4	200417R1_4	2.50	1.07	NO	23.77	1.001	5.63e4	2.20e6	2.42	-3.3	1.03	bb
5	200417R1_5	50.0	1.06	NO	23.69	1.001	1.01e6	1.74e6	54.9	9.8	1.16	bb
6	200417R1_6	400	1.05	NO	23.68	1.001	9.58e6	1.98e6	456	14.1	1.21	bb

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**Compound name: PCB-30**

Response Factor: 1.63387

RRF SD: 0.208874, Relative SD: 12.784

Response type: Internal Std ( Ref 174 ), 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	200417R1_1	0.200	1.08	NO	24.64	1.040	6.79e3	2.24e6	0.186	-7.1	1.52	bb
2	200417R1_2	0.250	1.08	NO	24.66	1.040	7.82e3	2.23e6	0.215	-14.1	1.40	bb
3	200417R1_3	1.00	1.09	NO	24.64	1.040	3.71e4	2.44e6	0.929	-7.1	1.52	bb
4	200417R1_4	2.50	1.08	NO	24.68	1.039	8.66e4	2.20e6	2.41	-3.5	1.58	bb
5	200417R1_5	50.0	1.06	NO	24.61	1.040	1.63e6	1.74e6	57.3	14.6	1.87	bb
6	200417R1_6	400	1.06	NO	24.60	1.040	1.52e7	1.98e6	469	17.1	1.91	bb

**Compound name: PCB-18**

Response Factor: 0.777246

RRF SD: 0.061451, Relative SD: 7.90625

Response type: Internal Std ( Ref 175 ), 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	200417R1_1	0.200	1.01	NO	25.40	0.952	4.74e3	3.12e6	0.196	-2.2	0.760	bd
2	200417R1_2	0.250	1.00	NO	25.42	0.952	5.53e3	3.09e6	0.230	-7.9	0.716	dd
3	200417R1_3	1.00	1.06	NO	25.40	0.952	2.50e4	3.43e6	0.939	-6.1	0.730	bd
4	200417R1_4	2.50	1.03	NO	25.44	0.952	5.79e4	3.08e6	2.42	-3.2	0.752	bd
5	200417R1_5	50.0	1.06	NO	25.37	0.952	1.13e6	2.71e6	53.7	7.3	0.834	bd
6	200417R1_6	400	1.06	NO	25.36	0.952	1.02e7	2.94e6	448	12.0	0.871	bd

**Compound name: PCB-17**

Response Factor: 0.733961

RRF SD: 0.0588842, Relative SD: 8.02279

Response type: Internal Std ( Ref 175 ), 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	200417R1_1	0.200	1.08	NO	25.58	0.959	4.50e3	3.12e6	0.197	-1.7	0.721	db
2	200417R1_2	0.250	1.05	NO	25.59	0.959	5.12e3	3.09e6	0.226	-9.7	0.663	db

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**Compound name: PCB-17**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.04	NO	25.58	0.959	2.39e4	3.43e6	0.949	-5.1	0.697	db
4	200417R1_4	2.50	1.05	NO	25.62	0.959	5.51e4	3.08e6	2.44	-2.5	0.716	db
5	200417R1_5	50.0	1.06	NO	25.55	0.959	1.07e6	2.71e6	53.5	7.1	0.786	db
6	200417R1_6	400	1.05	NO	25.54	0.959	9.65e6	2.94e6	448	11.9	0.821	db

**Compound name: PCB-24/27**

Response Factor: 1.01666

RRF SD: 0.0963195, Relative SD: 9.47415

Response type: Internal Std ( Ref 175 ), 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	200417R1_1	0.400	1.09	NO	26.17	0.981	1.20e4	3.12e6	0.378	-5.5	0.961	bb
2	200417R1_2	0.500	1.05	NO	26.17	0.980	1.40e4	3.09e6	0.444	-11.1	0.903	bb
3	200417R1_3	2.00	1.03	NO	26.17	0.981	6.66e4	3.43e6	1.91	-4.5	0.971	bb
4	200417R1_4	5.00	1.06	NO	26.21	0.981	1.54e5	3.08e6	4.93	-1.4	1.00	bb
5	200417R1_5	100	1.06	NO	26.14	0.981	2.99e6	2.71e6	108	8.4	1.10	bb
6	200417R1_6	800	1.05	NO	26.13	0.981	2.73e7	2.94e6	913	14.2	1.16	bb

**Compound name: PCB-16/32**

Response Factor: 0.899653

RRF SD: 0.0645611, Relative SD: 7.17622

Response type: Internal Std ( Ref 175 ), 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	200417R1_1	0.400	1.00	NO	26.70	1.001	1.07e4	3.12e6	0.382	-4.4	0.860	bb
2	200417R1_2	0.500	1.07	NO	26.72	1.001	1.29e4	3.09e6	0.465	-7.0	0.837	bb
3	200417R1_3	2.00	1.06	NO	26.70	1.001	5.92e4	3.43e6	1.92	-4.0	0.864	bb
4	200417R1_4	5.00	1.06	NO	26.74	1.001	1.35e5	3.08e6	4.87	-2.6	0.876	bb
5	200417R1_5	100	1.06	NO	26.67	1.001	2.62e6	2.71e6	107	7.5	0.967	bb
6	200417R1_6	800	1.06	NO	26.66	1.001	2.34e7	2.94e6	884	10.5	0.994	bb



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**Compound name: PCB-34**

Response Factor: 0.664068

RRF SD: 0.0490764, Relative SD: 7.39026

Response type: Internal Std ( Ref 176 ), 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	200417R1_1	0.200	1.10	NO	27.51	0.959	4.83e3	3.55e6	0.205	2.5	0.681	bd
2	200417R1_2	0.250	0.93	NO	27.52	0.959	5.27e3	3.55e6	0.224	-10.5	0.594	bd
3	200417R1_3	1.00	0.96	NO	27.51	0.959	2.46e4	3.91e6	0.945	-5.5	0.627	bd
4	200417R1_4	2.50	0.97	NO	27.55	0.959	5.76e4	3.54e6	2.45	-1.9	0.652	bd
5	200417R1_5	50.0	0.97	NO	27.49	0.959	1.17e6	3.23e6	54.5	9.0	0.724	bd
6	200417R1_6	400	0.97	NO	27.47	0.959	9.27e6	3.28e6	426	6.4	0.707	MM

**Compound name: PCB-23**

Response Factor: 0.615738

RRF SD: 0.120866, Relative SD: 19.6294

Response type: Internal Std ( Ref 176 ), 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	200417R1_1	0.200	1.06	NO	27.60	0.962	3.90e3	3.55e6	0.179	-10.6	0.551	dd
2	200417R1_2	0.250	0.98	NO	27.62	0.962	4.30e3	3.55e6	0.197	-21.3	0.485	db
3	200417R1_3	1.00	0.94	NO	27.60	0.962	2.15e4	3.91e6	0.894	-10.6	0.550	dd
4	200417R1_4	2.50	0.99	NO	27.64	0.962	5.14e4	3.54e6	2.36	-5.6	0.581	dd
5	200417R1_5	50.0	0.99	NO	27.58	0.962	1.18e6	3.23e6	59.3	18.5	0.730	db
6	200417R1_6	400	0.99	NO	27.57	0.962	1.05e7	3.28e6	518	29.6	0.798	MM

**Compound name: PCB-29**

Response Factor: 0.614794

RRF SD: 0.0779327, Relative SD: 12.6762

Response type: Internal Std ( Ref 176 ), 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	200417R1_1	0.200	1.03	NO	27.85	0.971	4.05e3	3.55e6	0.186	-7.2	0.571	db
2	200417R1_2	0.250	0.92	NO	27.88	0.971	4.76e3	3.55e6	0.218	-12.7	0.537	bb

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: PCB-29**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	0.97	NO	27.86	0.971	2.21e4	3.91e6	0.920	-8.0	0.565	dd
4	200417R1_4	2.50	0.97	NO	27.90	0.971	5.23e4	3.54e6	2.40	-3.9	0.591	dd
5	200417R1_5	50.0	0.97	NO	27.83	0.971	1.13e6	3.23e6	57.0	13.9	0.701	bd
6	200417R1_6	400	0.97	NO	27.83	0.971	9.50e6	3.28e6	471	17.8	0.724	bd

**Compound name: PCB-26**

Response Factor: 0.665833

RRF SD: 0.0837564, Relative SD: 12.5792

Response type: Internal Std ( Ref 176 ), 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	200417R1_1	0.200	0.96	NO	28.09	0.979	4.35e3	3.55e6	0.184	-7.9	0.613	bd
2	200417R1_2	0.250	0.97	NO	28.08	0.979	5.28e3	3.55e6	0.223	-10.6	0.595	bd
3	200417R1_3	1.00	0.99	NO	28.07	0.979	2.41e4	3.91e6	0.924	-7.6	0.615	dd
4	200417R1_4	2.50	0.95	NO	28.11	0.979	5.54e4	3.54e6	2.35	-6.0	0.626	dd
5	200417R1_5	50.0	0.97	NO	28.05	0.979	1.23e6	3.23e6	57.1	14.2	0.760	dd
6	200417R1_6	400	0.98	NO	28.03	0.979	1.03e7	3.28e6	472	17.9	0.785	dd

**Compound name: PCB-25**

Response Factor: 0.649996

RRF SD: 0.0918975, Relative SD: 14.1382

Response type: Internal Std ( Ref 176 ), 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	200417R1_1	0.200	0.90	NO	28.24	0.984	4.01e3	3.55e6	0.174	-12.9	0.566	db
2	200417R1_2	0.250	0.94	NO	28.25	0.984	5.01e3	3.55e6	0.217	-13.1	0.565	db
3	200417R1_3	1.00	1.02	NO	28.24	0.984	2.39e4	3.91e6	0.940	-6.0	0.611	db
4	200417R1_4	2.50	0.96	NO	28.27	0.984	5.58e4	3.54e6	2.42	-3.0	0.630	db
5	200417R1_5	50.0	0.98	NO	28.22	0.984	1.23e6	3.23e6	58.4	16.8	0.759	db
6	200417R1_6	400	0.98	NO	28.20	0.984	1.01e7	3.28e6	473	18.3	0.769	db

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: PCB-31**

Response Factor: 0.749062

RRF SD: 0.0913949, Relative SD: 12.2012

Response type: Internal Std ( Ref 176 ), 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	200417R1_1	0.200	0.95	NO	28.59	0.997	5.19e3	3.55e6	0.195	-2.3	0.732	bd
2	200417R1_2	0.250	0.92	NO	28.62	0.997	5.69e3	3.55e6	0.214	-14.4	0.641	bd
3	200417R1_3	1.00	0.94	NO	28.61	0.997	2.70e4	3.91e6	0.922	-7.8	0.691	bd
4	200417R1_4	2.50	1.00	NO	28.65	0.997	6.30e4	3.54e6	2.38	-4.9	0.712	bd
5	200417R1_5	50.0	0.97	NO	28.57	0.997	1.42e6	3.23e6	58.9	17.7	0.882	bd
6	200417R1_6	400	0.96	NO	28.57	0.997	1.10e7	3.28e6	446	11.6	0.836	bd

**Compound name: PCB-28**

Response Factor: 0.774585

RRF SD: 0.0881935, Relative SD: 11.3859

Response type: Internal Std ( Ref 176 ), 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	200417R1_1	0.200	0.94	NO	28.70	1.001	5.01e3	3.55e6	0.183	-8.7	0.707	db
2	200417R1_2	0.250	0.93	NO	28.72	1.001	6.09e3	3.55e6	0.221	-11.4	0.686	db
3	200417R1_3	1.00	0.99	NO	28.70	1.001	2.88e4	3.91e6	0.951	-4.9	0.736	db
4	200417R1_4	2.50	1.00	NO	28.74	1.001	6.64e4	3.54e6	2.42	-3.1	0.751	db
5	200417R1_5	50.0	0.98	NO	28.68	1.001	1.40e6	3.23e6	56.0	12.0	0.867	db
6	200417R1_6	400	0.98	NO	28.66	1.001	1.18e7	3.28e6	465	16.2	0.900	db

**Compound name: PCB-20/21/33**

Response Factor: 0.668737

RRF SD: 0.0951672, Relative SD: 14.2309

Response type: Internal Std ( Ref 176 ), 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	200417R1_1	0.600	0.94	NO	29.32	1.022	1.31e4	3.55e6	0.551	-8.2	0.614	bb
2	200417R1_2	0.750	0.98	NO	29.33	1.022	1.48e4	3.55e6	0.624	-16.8	0.557	bb

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**Compound name: PCB-20/21/33**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	3.00	0.94	NO	29.33	1.023	7.39e4	3.91e6	2.82	-5.9	0.629	bb
4	200417R1_4	7.50	0.96	NO	29.37	1.023	1.71e5	3.54e6	7.21	-3.9	0.643	bb
5	200417R1_5	150	0.98	NO	29.30	1.022	3.73e6	3.23e6	173	15.1	0.770	bb
6	200417R1_6	1200	0.98	NO	29.30	1.023	3.15e7	3.28e6	1440	19.6	0.800	bb

**Compound name: PCB-22**

Response Factor: 0.731449

RRF SD: 0.104143, Relative SD: 14.2379

Response type: Internal Std ( Ref 176 ), 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	200417R1_1	0.200	1.00	NO	29.78	1.038	4.74e3	3.55e6	0.183	-8.7	0.668	MM
2	200417R1_2	0.250	0.97	NO	29.79	1.038	5.40e3	3.55e6	0.208	-16.8	0.609	MM
3	200417R1_3	1.00	0.97	NO	29.78	1.038	2.72e4	3.91e6	0.949	-5.1	0.694	bb
4	200417R1_4	2.50	0.97	NO	29.82	1.038	6.20e4	3.54e6	2.40	-4.2	0.701	bb
5	200417R1_5	50.0	0.98	NO	29.76	1.038	1.41e6	3.23e6	59.8	19.7	0.875	bb
6	200417R1_6	400	0.98	NO	29.74	1.038	1.10e7	3.28e6	460	15.1	0.842	bb

**Compound name: PCB-36**

Response Factor: 0.785675

RRF SD: 0.092952, Relative SD: 11.8308

Response type: Internal Std ( Ref 177 ), 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	200417R1_1	0.200	1.01	NO	30.41	0.932	4.44e3	3.09e6	0.183	-8.4	0.720	bb
2	200417R1_2	0.250	1.06	NO	30.43	0.932	5.31e3	3.11e6	0.218	-13.0	0.684	MM
3	200417R1_3	1.00	1.00	NO	30.41	0.932	2.54e4	3.39e6	0.953	-4.7	0.749	bb
4	200417R1_4	2.50	0.98	NO	30.45	0.932	5.88e4	3.06e6	2.45	-2.1	0.769	db
5	200417R1_5	50.0	0.98	NO	30.40	0.932	1.43e6	3.32e6	54.9	9.8	0.862	bb
6	200417R1_6	400	0.98	NO	30.38	0.932	1.08e7	2.90e6	474	18.4	0.930	bb

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**Compound name: PCB-39**

Response Factor: 0.729509

RRF SD: 0.0892113, Relative SD: 12.229

Response type: Internal Std ( Ref 177 ), 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	200417R1_1	0.200	0.90	NO	30.90	0.946	4.04e3	3.09e6	0.179	-10.4	0.654	MM
2	200417R1_2	0.250	0.91	NO	30.91	0.946	5.02e3	3.11e6	0.221	-11.5	0.646	MM
3	200417R1_3	1.00	1.02	NO	30.90	0.946	2.34e4	3.39e6	0.947	-5.3	0.691	bb
4	200417R1_4	2.50	0.95	NO	30.93	0.947	5.45e4	3.06e6	2.45	-2.2	0.714	bb
5	200417R1_5	50.0	0.98	NO	30.88	0.946	1.33e6	3.32e6	55.0	9.9	0.802	db
6	200417R1_6	400	0.98	NO	30.86	0.946	1.01e7	2.90e6	478	19.4	0.871	db

**Compound name: PCB-38**

Response Factor: 0.772074

RRF SD: 0.0965627, Relative SD: 12.5069

Response type: Internal Std ( Ref 177 ), 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	200417R1_1	0.200	1.01	NO	31.68	0.970	4.43e3	3.09e6	0.186	-7.0	0.718	bb
2	200417R1_2	0.250	1.06	NO	31.69	0.970	5.16e3	3.11e6	0.215	-14.0	0.664	dd
3	200417R1_3	1.00	0.96	NO	31.68	0.970	2.43e4	3.39e6	0.926	-7.4	0.715	dd
4	200417R1_4	2.50	0.97	NO	31.72	0.970	5.83e4	3.06e6	2.47	-1.2	0.763	dd
5	200417R1_5	50.0	0.99	NO	31.66	0.970	1.41e6	3.32e6	55.0	9.9	0.849	dd
6	200417R1_6	400	0.98	NO	31.66	0.971	1.07e7	2.90e6	478	19.6	0.923	dd

**Compound name: PCB-35**

Response Factor: 0.746704

RRF SD: 0.117148, Relative SD: 15.6887

Response type: Internal Std ( Ref 177 ), 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	200417R1_1	0.200	0.91	NO	32.22	0.987	4.04e3	3.09e6	0.175	-12.3	0.655	bb
2	200417R1_2	0.250	1.13	NO	32.23	0.987	4.89e3	3.11e6	0.211	-15.8	0.629	bd

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**Compound name: PCB-35**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	0.99	NO	32.22	0.987	2.37e4	3.39e6	0.936	-6.4	0.699	dd
4	200417R1_4	2.50	0.98	NO	32.26	0.987	5.49e4	3.06e6	2.40	-3.8	0.718	MM
5	200417R1_5	50.0	0.98	NO	32.20	0.987	1.42e6	3.32e6	57.2	14.5	0.855	db
6	200417R1_6	400	0.97	NO	32.18	0.987	1.07e7	2.90e6	495	23.8	0.924	db

**Compound name: PCB-37**

Response Factor: 0.75589

RRF SD: 0.0959904, Relative SD: 12.699

Response type: Internal Std ( Ref 177 ), 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	200417R1_1	0.200	1.02	NO	32.67	1.001	4.36e3	3.09e6	0.187	-6.6	0.706	MM
2	200417R1_2	0.250	0.97	NO	32.68	1.001	5.09e3	3.11e6	0.216	-13.4	0.654	MM
3	200417R1_3	1.00	0.97	NO	32.67	1.001	2.40e4	3.39e6	0.934	-6.6	0.706	MM
4	200417R1_4	2.50	0.95	NO	32.70	1.001	5.48e4	3.06e6	2.37	-5.1	0.717	MM
5	200417R1_5	50.0	0.98	NO	32.65	1.001	1.42e6	3.32e6	56.8	13.6	0.859	MM
6	200417R1_6	400	0.97	NO	32.63	1.001	1.03e7	2.90e6	472	18.1	0.893	MM

**Compound name: PCB-54**

Response Factor: 0.998748

RRF SD: 0.108519, Relative SD: 10.8655

Response type: Internal Std ( Ref 178 ), 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	200417R1_1	0.200	0.75	NO	27.55	1.001	5.34e3	2.90e6	0.184	-7.9	0.920	bd
2	200417R1_2	0.250	0.81	NO	27.56	1.001	6.62e3	2.95e6	0.225	-10.0	0.899	bb
3	200417R1_3	1.00	0.75	NO	27.55	1.001	2.95e4	3.18e6	0.926	-7.4	0.925	bb
4	200417R1_4	2.50	0.76	NO	27.58	1.001	7.02e4	2.86e6	2.46	-1.7	0.982	bb
5	200417R1_5	50.0	0.78	NO	27.53	1.001	1.44e6	2.59e6	55.8	11.6	1.11	bb
6	200417R1_6	400	0.79	NO	27.51	1.001	1.24e7	2.68e6	462	15.4	1.15	bb

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**Compound name: PCB-50**

Response Factor: 0.788263

RRF SD: 0.112759, Relative SD: 14.3048

Response type: Internal Std ( Ref 178 ), 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	200417R1_1	0.200	0.75	NO	28.76	1.045	4.09e3	2.90e6	0.179	-10.6	0.705	bb
2	200417R1_2	0.250	0.81	NO	28.77	1.045	5.07e3	2.95e6	0.218	-12.8	0.688	bb
3	200417R1_3	1.00	0.76	NO	28.76	1.045	2.28e4	3.18e6	0.908	-9.2	0.716	bb
4	200417R1_4	2.50	0.78	NO	28.80	1.045	5.44e4	2.86e6	2.41	-3.5	0.761	bb
5	200417R1_5	50.0	0.78	NO	28.72	1.044	1.22e6	2.59e6	59.5	19.0	0.938	bb
6	200417R1_6	400	0.79	NO	28.72	1.045	9.90e6	2.68e6	468	17.1	0.923	bb

**Compound name: PCB-53**

Response Factor: 0.932874

RRF SD: 0.097972, Relative SD: 10.5022

Response type: Internal Std ( Ref 179 ), 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	200417R1_1	0.200	0.69	NO	29.41	0.944	4.10e3	2.26e6	0.194	-2.9	0.906	bb
2	200417R1_2	0.250	0.88	NO	29.42	0.944	4.98e3	2.24e6	0.238	-4.9	0.887	MM
3	200417R1_3	1.00	0.78	NO	29.41	0.944	2.14e4	2.52e6	0.910	-9.0	0.849	bb
4	200417R1_4	2.50	0.77	NO	29.45	0.944	4.94e4	2.27e6	2.33	-6.8	0.870	bb
5	200417R1_5	50.0	0.79	NO	29.39	0.944	1.15e6	2.36e6	52.1	4.1	0.971	bb
6	200417R1_6	400	0.79	NO	29.37	0.944	9.35e6	2.10e6	478	19.4	1.11	bb

**Compound name: PCB-51**

Response Factor: 1.02229

RRF SD: 0.109788, Relative SD: 10.7394

Response type: Internal Std ( Ref 179 ), 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	200417R1_1	0.200	0.74	NO	29.76	0.955	4.34e3	2.26e6	0.187	-6.3	0.958	bb
2	200417R1_2	0.250	0.77	NO	29.77	0.955	5.05e3	2.24e6	0.220	-11.9	0.901	bb

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**Compound name: PCB-51**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	0.75	NO	29.76	0.955	2.51e4	2.52e6	0.973	-2.7	0.994	bb
4	200417R1_4	2.50	0.80	NO	29.80	0.955	5.54e4	2.27e6	2.38	-4.7	0.975	bb
5	200417R1_5	50.0	0.79	NO	29.74	0.955	1.31e6	2.36e6	54.1	8.3	1.11	bb
6	200417R1_6	400	0.79	NO	29.73	0.955	1.01e7	2.10e6	469	17.3	1.20	bb

**Compound name: PCB-45**

Response Factor: 0.762183

RRF SD: 0.0916453, Relative SD: 12.0241

Response type: Internal Std ( Ref 179 ), 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	200417R1_1	0.200	0.71	NO	30.21	0.970	2.95e3	2.26e6	0.171	-14.5	0.652	bb
2	200417R1_2	0.250	0.80	NO	30.22	0.970	4.04e3	2.24e6	0.236	-5.5	0.720	MM
3	200417R1_3	1.00	0.77	NO	30.21	0.970	1.84e4	2.52e6	0.956	-4.4	0.729	bb
4	200417R1_4	2.50	0.77	NO	30.23	0.969	4.21e4	2.27e6	2.43	-2.9	0.740	bb
5	200417R1_5	50.0	0.78	NO	30.17	0.969	9.65e5	2.36e6	53.6	7.3	0.818	bb
6	200417R1_6	400	0.78	NO	30.17	0.970	7.68e6	2.10e6	480	20.0	0.915	bb

**Compound name: PCB-46**

Response Factor: 0.738474

RRF SD: 0.0818875, Relative SD: 11.0887

Response type: Internal Std ( Ref 179 ), 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	200417R1_1	0.200	0.82	NO	30.69	0.985	3.09e3	2.26e6	0.185	-7.7	0.682	bb
2	200417R1_2	0.250	0.87	NO	30.71	0.985	3.65e3	2.24e6	0.221	-11.8	0.651	MM
3	200417R1_3	1.00	0.74	NO	30.69	0.985	1.79e4	2.52e6	0.960	-4.0	0.709	bb
4	200417R1_4	2.50	0.76	NO	30.73	0.985	4.13e4	2.27e6	2.46	-1.5	0.727	bb
5	200417R1_5	50.0	0.79	NO	30.67	0.985	9.24e5	2.36e6	53.0	5.9	0.782	bb
6	200417R1_6	400	0.78	NO	30.67	0.986	7.38e6	2.10e6	476	19.1	0.879	bb



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**Compound name: PCB-52/69**

Response Factor: 1.08797

RRF SD: 0.128865, Relative SD: 11.8445

Response type: Internal Std ( Ref 179 ), 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	200417R1_1	0.400	0.78	NO	31.19	1.001	9.19e3	2.26e6	0.373	-6.7	1.01	bd
2	200417R1_2	0.500	0.82	NO	31.21	1.001	1.06e4	2.24e6	0.435	-12.9	0.948	bd
3	200417R1_3	2.00	0.79	NO	31.19	1.001	5.39e4	2.52e6	1.96	-1.9	1.07	bd
4	200417R1_4	5.00	0.77	NO	31.23	1.001	1.16e5	2.27e6	4.70	-6.1	1.02	bd
5	200417R1_5	100	0.79	NO	31.18	1.001	2.77e6	2.36e6	108	7.9	1.17	bd
6	200417R1_6	800	0.79	NO	31.16	1.001	2.19e7	2.10e6	957	19.7	1.30	bd

**Compound name: PCB-73**

Response Factor: 1.30481

RRF SD: 0.151305, Relative SD: 11.5959

Response type: Internal Std ( Ref 179 ), 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	200417R1_1	0.200	0.70	NO	31.31	1.005	5.77e3	2.26e6	0.195	-2.3	1.27	dd
2	200417R1_2	0.250	0.70	NO	31.34	1.005	6.50e3	2.24e6	0.222	-11.1	1.16	dd
3	200417R1_3	1.00	0.79	NO	31.31	1.005	2.94e4	2.52e6	0.891	-10.9	1.16	dd
4	200417R1_4	2.50	0.81	NO	31.34	1.005	7.11e4	2.27e6	2.40	-4.1	1.25	dd
5	200417R1_5	50.0	0.79	NO	31.29	1.005	1.78e6	2.36e6	57.8	15.5	1.51	dd
6	200417R1_6	400	0.80	NO	31.29	1.005	1.24e7	2.10e6	452	12.9	1.47	dd

**Compound name: PCB-43/49**

Response Factor: 0.91396

RRF SD: 0.122191, Relative SD: 13.3694

Response type: Internal Std ( Ref 179 ), 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	200417R1_1	0.400	0.78	NO	31.47	1.010	7.49e3	2.26e6	0.362	-9.5	0.827	dd
2	200417R1_2	0.500	0.80	NO	31.49	1.010	8.98e3	2.24e6	0.438	-12.4	0.800	dd

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**Compound name: PCB-43/49**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	2.00	0.78	NO	31.47	1.010	4.30e4	2.52e6	1.87	-6.7	0.852	dd
4	200417R1_4	5.00	0.77	NO	31.51	1.010	9.94e4	2.27e6	4.78	-4.3	0.875	dd
5	200417R1_5	100	0.79	NO	31.45	1.010	2.42e6	2.36e6	112	12.0	1.02	dd
6	200417R1_6	800	0.79	NO	31.45	1.011	1.86e7	2.10e6	968	21.0	1.11	dd

**Compound name: PCB-47**

Response Factor: 0.840664

RRF SD: 0.12901, Relative SD: 15.3462

Response type: Internal Std ( Ref 180 ), 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	200417R1_1	0.200	0.81	NO	31.70	1.001	3.69e3	2.38e6	0.185	-7.7	0.776	dd
2	200417R1_2	0.250	0.80	NO	31.71	1.001	4.24e3	2.37e6	0.213	-14.7	0.717	dd
3	200417R1_3	1.00	0.84	NO	31.70	1.001	2.00e4	2.64e6	0.899	-10.1	0.755	dd
4	200417R1_4	2.50	0.78	NO	31.74	1.001	4.82e4	2.37e6	2.42	-3.4	0.812	dd
5	200417R1_5	50.0	0.78	NO	31.68	1.001	1.18e6	2.56e6	54.8	9.5	0.921	dd
6	200417R1_6	400	0.78	NO	31.66	1.001	9.64e6	2.27e6	506	26.4	1.06	dd

**Compound name: PCB-48/75**

Response Factor: 1.01264

RRF SD: 0.114539, Relative SD: 11.311

Response type: Internal Std ( Ref 180 ), 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	200417R1_1	0.400	0.76	NO	31.81	1.004	8.74e3	2.38e6	0.363	-9.3	0.918	db
2	200417R1_2	0.500	0.75	NO	31.82	1.004	1.06e4	2.37e6	0.441	-11.9	0.892	dd
3	200417R1_3	2.00	0.76	NO	31.81	1.004	5.10e4	2.64e6	1.91	-4.7	0.965	db
4	200417R1_4	5.00	0.77	NO	31.85	1.005	1.18e5	2.37e6	4.92	-1.7	0.996	db
5	200417R1_5	100	0.78	NO	31.79	1.004	2.90e6	2.56e6	112	12.0	1.13	db
6	200417R1_6	800	0.79	NO	31.77	1.004	2.12e7	2.27e6	924	15.5	1.17	db

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**Compound name: PCB-65**

Response Factor: 1.05446

RRF SD: 0.156838, Relative SD: 14.8738

Response type: Internal Std ( Ref 180 ), 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	200417R1_1	0.200	0.77	NO	32.07	1.012	4.74e3	2.38e6	0.189	-5.6	0.996	bd
2	200417R1_2	0.250	0.82	NO	32.08	1.012	5.10e3	2.37e6	0.204	-18.2	0.862	dd
3	200417R1_3	1.00	0.77	NO	32.07	1.012	2.60e4	2.64e6	0.932	-6.8	0.983	bd
4	200417R1_4	2.50	0.76	NO	32.11	1.013	6.06e4	2.37e6	2.42	-3.2	1.02	bd
5	200417R1_5	50.0	0.78	NO	32.05	1.012	1.47e6	2.56e6	54.6	9.1	1.15	bd
6	200417R1_6	400	0.78	NO	32.05	1.013	1.19e7	2.27e6	498	24.6	1.31	bd

**Compound name: PCB-62**

Response Factor: 1.02446

RRF SD: 0.10142, Relative SD: 9.89981

Response type: Internal Std ( Ref 180 ), 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	200417R1_1	0.200	0.68	NO	32.18	1.016	4.89e3	2.38e6	0.201	0.4	1.03	MM
2	200417R1_2	0.250	0.84	NO	32.19	1.016	5.27e3	2.37e6	0.217	-13.2	0.889	dd
3	200417R1_3	1.00	0.82	NO	32.18	1.016	2.55e4	2.64e6	0.942	-5.8	0.965	dd
4	200417R1_4	2.50	0.77	NO	32.22	1.016	5.82e4	2.37e6	2.39	-4.3	0.980	dd
5	200417R1_5	50.0	0.79	NO	32.16	1.016	1.45e6	2.56e6	55.3	10.7	1.13	dd
6	200417R1_6	400	0.80	NO	32.16	1.016	1.04e7	2.27e6	449	12.2	1.15	dd

**Compound name: PCB-44**

Response Factor: 0.716396

RRF SD: 0.0956283, Relative SD: 13.3485

Response type: Internal Std ( Ref 180 ), 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	200417R1_1	0.200	0.75	NO	32.52	1.026	3.24e3	2.38e6	0.190	-4.9	0.681	dd
2	200417R1_2	0.250	0.86	NO	32.51	1.026	3.48e3	2.37e6	0.205	-17.9	0.588	dd

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**Compound name: PCB-44**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	0.76	NO	32.50	1.026	1.78e4	2.64e6	0.942	-5.8	0.675	dd
4	200417R1_4	2.50	0.79	NO	32.53	1.026	4.14e4	2.37e6	2.43	-2.6	0.698	dd
5	200417R1_5	50.0	0.78	NO	32.48	1.026	1.03e6	2.56e6	56.4	12.8	0.808	db
6	200417R1_6	400	0.79	NO	32.48	1.026	7.70e6	2.27e6	474	18.5	0.849	dd

**Compound name: PCB-42/59**

Response Factor: 0.942708

RRF SD: 0.108709, Relative SD: 11.5315

Response type: Internal Std ( Ref 180 ), 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	200417R1_1	0.400	0.73	NO	32.74	1.033	8.25e3	2.38e6	0.368	-8.0	0.867	db
2	200417R1_2	0.500	0.76	NO	32.75	1.033	1.02e4	2.37e6	0.458	-8.5	0.863	db
3	200417R1_3	2.00	0.78	NO	32.74	1.033	4.52e4	2.64e6	1.82	-9.2	0.856	db
4	200417R1_4	5.00	0.78	NO	32.78	1.034	1.09e5	2.37e6	4.85	-2.9	0.915	db
5	200417R1_5	100	0.78	NO	32.72	1.033	2.67e6	2.56e6	111	10.9	1.05	bb
6	200417R1_6	800	0.79	NO	32.70	1.033	2.01e7	2.27e6	942	17.7	1.11	db

**Compound name: PCB-41/64/71/72**

Response Factor: 1.06785

RRF SD: 0.148133, Relative SD: 13.8721

Response type: Internal Std ( Ref 180 ), 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	200417R1_1	0.800	0.74	NO	33.33	1.052	1.90e4	2.38e6	0.750	-6.3	1.00	bd
2	200417R1_2	1.00	0.81	NO	33.35	1.052	2.11e4	2.37e6	0.836	-16.4	0.892	bd
3	200417R1_3	4.00	0.77	NO	33.33	1.052	1.04e5	2.64e6	3.70	-7.6	0.987	bb
4	200417R1_4	10.0	0.77	NO	33.37	1.053	2.45e5	2.37e6	9.65	-3.5	1.03	bb
5	200417R1_5	200	0.79	NO	33.32	1.052	6.27e6	2.56e6	230	14.9	1.23	bb
6	200417R1_6	1600	0.79	NO	33.32	1.053	4.61e7	2.27e6	1900	19.0	1.27	bd

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**Compound name: PCB-68**

Response Factor: 1.09177

RRF SD: 0.141325, Relative SD: 12.9446

Response type: Internal Std ( Ref 180 ), 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	200417R1_1	0.200	0.77	NO	33.60	1.061	4.89e3	2.38e6	0.188	-5.8	1.03	dd
2	200417R1_2	0.250	0.74	NO	33.63	1.061	5.72e3	2.37e6	0.221	-11.5	0.966	dd
3	200417R1_3	1.00	0.74	NO	33.61	1.061	2.61e4	2.64e6	0.904	-9.6	0.987	bd
4	200417R1_4	2.50	0.75	NO	33.63	1.061	6.09e4	2.37e6	2.35	-6.0	1.03	bd
5	200417R1_5	50.0	0.79	NO	33.60	1.061	1.64e6	2.56e6	58.8	17.5	1.28	bd
6	200417R1_6	400	0.80	NO	33.58	1.061	1.14e7	2.27e6	462	15.4	1.26	dd

**Compound name: PCB-40**

Response Factor: 0.535473

RRF SD: 0.058612, Relative SD: 10.9458

Response type: Internal Std ( Ref 180 ), 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	200417R1_1	0.200	0.88	NO	33.82	1.067	2.40e3	2.38e6	0.188	-5.8	0.505	dd
2	200417R1_2	0.250	0.80	NO	33.83	1.067	2.92e3	2.37e6	0.230	-7.9	0.493	MM
3	200417R1_3	1.00	0.76	NO	33.82	1.068	1.31e4	2.64e6	0.922	-7.8	0.494	db
4	200417R1_4	2.50	0.77	NO	33.86	1.068	2.96e4	2.37e6	2.33	-6.7	0.499	db
5	200417R1_5	50.0	0.79	NO	33.80	1.068	7.77e5	2.56e6	56.8	13.5	0.608	db
6	200417R1_6	400	0.81	NO	33.78	1.068	5.57e6	2.27e6	459	14.6	0.614	db

**Compound name: PCB-57**

Response Factor: 1.03283

RRF SD: 0.119935, Relative SD: 11.6122

Response type: Internal Std ( Ref 181 ), 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	200417R1_1	0.200	0.73	NO	34.19	0.969	5.31e3	2.63e6	0.196	-2.1	1.01	bb
2	200417R1_2	0.250	0.71	NO	34.20	0.969	5.76e3	2.60e6	0.214	-14.4	0.884	MM

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**Compound name: PCB-57**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	0.81	NO	34.19	0.969	2.73e4	2.84e6	0.930	-7.0	0.961	bb
4	200417R1_4	2.50	0.78	NO	34.23	0.969	6.42e4	2.56e6	2.43	-3.0	1.00	bb
5	200417R1_5	50.0	0.79	NO	34.17	0.969	1.74e6	3.11e6	54.1	8.1	1.12	bb
6	200417R1_6	400	0.79	NO	34.17	0.969	1.23e7	2.52e6	474	18.4	1.22	bb

**Compound name: PCB-67**

Response Factor: 0.985124

RRF SD: 0.103209, Relative SD: 10.4768

Response type: Internal Std ( Ref 181 ), 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	200417R1_1	0.200	0.83	NO	34.51	0.978	4.73e3	2.63e6	0.183	-8.5	0.901	bd
2	200417R1_2	0.250	0.77	NO	34.52	0.978	6.08e3	2.60e6	0.237	-5.2	0.933	bd
3	200417R1_3	1.00	0.79	NO	34.51	0.978	2.57e4	2.84e6	0.918	-8.2	0.905	bd
4	200417R1_4	2.50	0.79	NO	34.54	0.978	6.23e4	2.56e6	2.47	-1.4	0.971	bd
5	200417R1_5	50.0	0.78	NO	34.49	0.978	1.60e6	3.11e6	52.1	4.3	1.03	bd
6	200417R1_6	400	0.78	NO	34.49	0.978	1.18e7	2.52e6	476	19.0	1.17	bd

**Compound name: PCB-58**

Response Factor: 1.05368

RRF SD: 0.125951, Relative SD: 11.9535

Response type: Internal Std ( Ref 181 ), 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	200417R1_1	0.200	0.76	NO	34.64	0.982	5.32e3	2.63e6	0.192	-3.9	1.01	dd
2	200417R1_2	0.250	0.87	NO	34.63	0.982	6.08e3	2.60e6	0.222	-11.4	0.934	dd
3	200417R1_3	1.00	0.77	NO	34.64	0.982	2.73e4	2.84e6	0.914	-8.6	0.963	dd
4	200417R1_4	2.50	0.78	NO	34.66	0.982	6.33e4	2.56e6	2.34	-6.2	0.988	dd
5	200417R1_5	50.0	0.79	NO	34.62	0.982	1.86e6	3.11e6	56.7	13.4	1.19	dd
6	200417R1_6	400	0.79	NO	34.60	0.982	1.24e7	2.52e6	467	16.7	1.23	dd

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**Compound name: PCB-63**

Response Factor: 0.932956

RRF SD: 0.120257, Relative SD: 12.8898

Response type: Internal Std ( Ref 181 ), 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	200417R1_1	0.200	0.79	NO	34.79	0.986	4.50e3	2.63e6	0.184	-8.1	0.858	db
2	200417R1_2	0.250	0.79	NO	34.80	0.986	5.13e3	2.60e6	0.211	-15.6	0.787	dd
3	200417R1_3	1.00	0.80	NO	34.79	0.986	2.51e4	2.84e6	0.948	-5.2	0.884	db
4	200417R1_4	2.50	0.76	NO	34.82	0.986	5.90e4	2.56e6	2.47	-1.3	0.921	db
5	200417R1_5	50.0	0.79	NO	34.77	0.986	1.61e6	3.11e6	55.4	10.9	1.03	db
6	200417R1_6	400	0.79	NO	34.75	0.986	1.12e7	2.52e6	477	19.3	1.11	db

**Compound name: PCB-74**

Response Factor: 1.02769

RRF SD: 0.147119, Relative SD: 14.3155

Response type: Internal Std ( Ref 181 ), 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	200417R1_1	0.200	0.81	NO	35.08	0.995	5.13e3	2.63e6	0.190	-5.0	0.976	dd
2	200417R1_2	0.250	0.71	NO	35.10	0.995	5.67e3	2.60e6	0.212	-15.3	0.871	dd
3	200417R1_3	1.00	0.79	NO	35.08	0.995	2.62e4	2.84e6	0.897	-10.3	0.922	bd
4	200417R1_4	2.50	0.76	NO	35.10	0.994	6.31e4	2.56e6	2.39	-4.2	0.984	bd
5	200417R1_5	50.0	0.79	NO	35.06	0.994	1.81e6	3.11e6	56.5	13.1	1.16	bd
6	200417R1_6	400	0.78	NO	35.05	0.994	1.26e7	2.52e6	487	21.7	1.25	bd

**Compound name: PCB-61/70**

Response Factor: 0.967765

RRF SD: 0.101348, Relative SD: 10.4723

Response type: Internal Std ( Ref 181 ), 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	200417R1_1	0.400	0.80	NO	35.29	1.000	1.01e4	2.63e6	0.398	-0.5	0.963	MM
2	200417R1_2	0.500	0.82	NO	35.30	1.000	1.12e4	2.60e6	0.445	-11.0	0.862	MM

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Compound name: PCB-61/70

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	2.00	0.80	NO	35.21	0.998	4.96e4	2.84e6	1.81	-9.6	0.875	MM
4	200417R1_4	5.00	0.76	NO	35.33	1.000	1.20e5	2.56e6	4.83	-3.3	0.936	MM
5	200417R1_5	100	0.79	NO	35.29	1.000	3.27e6	3.11e6	109	8.5	1.05	MM
6	200417R1_6	800	0.79	NO	35.27	1.000	2.26e7	2.52e6	927	15.9	1.12	MM

Compound name: PCB-76/66

Response Factor: 1.0424

RRF SD: 0.130501, Relative SD: 12.5193

Response type: Internal Std ( Ref 181 ), 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	200417R1_1	0.400	0.84	NO	35.49	1.006	1.05e4	2.63e6	0.383	-4.3	0.998	MM
2	200417R1_2	0.500	0.84	NO	35.51	1.006	1.16e4	2.60e6	0.429	-14.2	0.894	dd
3	200417R1_3	2.00	0.77	NO	35.46	1.005	5.49e4	2.84e6	1.86	-7.2	0.968	dd
4	200417R1_4	5.00	0.75	NO	35.49	1.005	1.28e5	2.56e6	4.79	-4.1	0.999	dd
5	200417R1_5	100	0.78	NO	35.47	1.006	3.56e6	3.11e6	110	9.9	1.15	dd
6	200417R1_6	800	0.79	NO	35.47	1.006	2.52e7	2.52e6	959	19.9	1.25	dd

Compound name: PCB-80

Response Factor: 1.07253

RRF SD: 0.120277, Relative SD: 11.2144

Response type: Internal Std ( Ref 182 ), 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	200417R1_1	0.200	0.77	NO	35.74	1.000	5.53e3	2.71e6	0.190	-4.8	1.02	dd
2	200417R1_2	0.250	0.83	NO	35.75	1.000	6.18e3	2.69e6	0.215	-14.2	0.921	db
3	200417R1_3	1.00	0.78	NO	35.74	1.000	2.97e4	2.94e6	0.943	-5.7	1.01	db
4	200417R1_4	2.50	0.78	NO	35.75	1.000	6.93e4	2.64e6	2.45	-2.0	1.05	db
5	200417R1_5	50.0	0.79	NO	35.72	1.000	1.98e6	3.33e6	55.4	10.8	1.19	db
6	200417R1_6	400	0.79	NO	35.70	1.000	1.28e7	2.58e6	463	15.9	1.24	dd



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**Compound name: PCB-55**

Response Factor: 1.04647

RRF SD: 0.121205, Relative SD: 11.5823

Response type: Internal Std ( Ref 182 ), 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	200417R1_1	0.200	0.86	NO	36.05	1.009	5.32e3	2.71e6	0.188	-6.2	0.982	db
2	200417R1_2	0.250	0.67	NO	36.06	1.009	6.45e3	2.69e6	0.230	-8.1	0.962	bb
3	200417R1_3	1.00	0.76	NO	36.05	1.009	2.80e4	2.94e6	0.911	-8.9	0.953	bb
4	200417R1_4	2.50	0.75	NO	36.07	1.009	6.62e4	2.64e6	2.40	-4.1	1.00	bb
5	200417R1_5	50.0	0.78	NO	36.03	1.009	1.86e6	3.33e6	53.3	6.6	1.12	bb
6	200417R1_6	400	0.79	NO	36.03	1.010	1.31e7	2.58e6	483	20.7	1.26	db

**Compound name: PCB-56/60**

Response Factor: 0.932021

RRF SD: 0.10201, Relative SD: 10.9451

Response type: Internal Std ( Ref 182 ), 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	200417R1_1	0.400	0.85	NO	36.55	1.023	9.68e3	2.71e6	0.383	-4.2	0.893	bb
2	200417R1_2	0.500	0.81	NO	36.57	1.023	1.07e4	2.69e6	0.429	-14.2	0.800	bb
3	200417R1_3	2.00	0.79	NO	36.55	1.023	5.20e4	2.94e6	1.90	-5.0	0.885	bb
4	200417R1_4	5.00	0.79	NO	36.57	1.023	1.21e5	2.64e6	4.93	-1.4	0.919	bb
5	200417R1_5	100	0.78	NO	36.53	1.023	3.34e6	3.33e6	108	7.5	1.00	bb
6	200417R1_6	800	0.79	NO	36.53	1.024	2.26e7	2.58e6	938	17.2	1.09	bb

**Compound name: PCB-79**

Response Factor: 1.05527

RRF SD: 0.117348, Relative SD: 11.1202

Response type: Internal Std ( Ref 182 ), 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	200417R1_1	0.200	0.84	NO	37.65	1.054	5.34e3	2.71e6	0.187	-6.6	0.986	bb
2	200417R1_2	0.250	0.83	NO	37.67	1.054	6.37e3	2.69e6	0.225	-10.0	0.949	MM

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**Compound name: PCB-79**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	0.72	NO	37.65	1.054	2.86e4	2.94e6	0.921	-7.9	0.972	bb
4	200417R1_4	2.50	0.77	NO	37.67	1.054	6.73e4	2.64e6	2.42	-3.4	1.02	bb
5	200417R1_5	50.0	0.79	NO	37.63	1.054	1.96e6	3.33e6	55.7	11.4	1.18	bb
6	200417R1_6	400	0.79	NO	37.63	1.055	1.27e7	2.58e6	466	16.4	1.23	bb

**Compound name: PCB-78**

Response Factor: 1.00029

RRF SD: 0.129142, Relative SD: 12.9104

Response type: Internal Std ( Ref 183 ), 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	200417R1_1	0.200	0.84	NO	38.36	0.987	4.78e3	2.57e6	0.186	-6.9	0.931	MM
2	200417R1_2	0.250	0.79	NO	38.37	0.987	5.49e3	2.45e6	0.224	-10.3	0.897	MM
3	200417R1_3	1.00	0.77	NO	38.36	0.987	2.41e4	2.69e6	0.894	-10.6	0.894	MM
4	200417R1_4	2.50	0.79	NO	38.40	0.987	5.77e4	2.39e6	2.41	-3.6	0.964	MM
5	200417R1_5	50.0	0.78	NO	38.36	0.987	1.76e6	3.20e6	55.1	10.2	1.10	MM
6	200417R1_6	400	0.78	NO	38.34	0.987	1.20e7	2.47e6	485	21.2	1.21	MM

**Compound name: PCB-81**

Response Factor: 0.953619

RRF SD: 0.112175, Relative SD: 11.7631

Response type: Internal Std ( Ref 183 ), 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	200417R1_1	0.200	0.76	NO	38.90	1.000	4.53e3	2.57e6	0.185	-7.4	0.883	MM
2	200417R1_2	0.250	0.85	NO	38.91	1.000	4.97e3	2.45e6	0.213	-14.8	0.812	MM
3	200417R1_3	1.00	0.80	NO	38.90	1.000	2.46e4	2.69e6	0.959	-4.1	0.914	MM
4	200417R1_4	2.50	0.75	NO	38.92	1.000	5.63e4	2.39e6	2.47	-1.3	0.941	MM
5	200417R1_5	50.0	0.78	NO	38.90	1.000	1.70e6	3.20e6	55.5	11.0	1.06	MM
6	200417R1_6	400	0.79	NO	38.88	1.000	1.10e7	2.47e6	467	16.6	1.11	MM

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**Compound name: PCB-77**

Response Factor: 1.06679

RRF SD: 0.0968719, Relative SD: 9.08065

Response type: Internal Std ( Ref 184 ), 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	200417R1_1	0.200	0.88	NO	39.51	1.000	5.17e3	2.48e6	0.195	-2.4	1.04	MM
2	200417R1_2	0.250	0.82	NO	39.53	1.000	5.90e3	2.39e6	0.232	-7.2	0.990	MM
3	200417R1_3	1.00	0.81	NO	39.51	1.000	2.52e4	2.60e6	0.910	-9.0	0.971	MM
4	200417R1_4	2.50	0.78	NO	39.53	1.000	5.98e4	2.33e6	2.40	-3.8	1.03	bd
5	200417R1_5	50.0	0.78	NO	39.49	1.000	1.83e6	3.15e6	54.6	9.1	1.16	MM
6	200417R1_6	400	0.79	NO	39.49	1.000	1.18e7	2.44e6	453	13.3	1.21	MM

**Compound name: PCB-104**

Response Factor: 1.13939

RRF SD: 0.106814, Relative SD: 9.37466

Response type: Internal Std ( Ref 185 ), 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	200417R1_1	0.200	1.60	NO	32.37	1.001	3.77e3	1.75e6	0.189	-5.6	1.08	bb
2	200417R1_2	0.250	1.68	NO	32.38	1.001	4.72e3	1.75e6	0.237	-5.4	1.08	bb
3	200417R1_3	1.00	1.70	NO	32.37	1.001	2.04e4	1.95e6	0.917	-8.3	1.05	bb
4	200417R1_4	2.50	1.57	NO	32.39	1.001	4.77e4	1.75e6	2.39	-4.2	1.09	bb
5	200417R1_5	50.0	1.63	NO	32.35	1.001	1.16e6	1.87e6	54.4	8.8	1.24	bb
6	200417R1_6	400	1.61	NO	32.33	1.001	8.35e6	1.60e6	459	14.6	1.31	bb

**Compound name: PCB-96**

Response Factor: 1.12398

RRF SD: 0.122669, Relative SD: 10.9138

Response type: Internal Std ( Ref 185 ), 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	200417R1_1	0.200	1.61	NO	33.65	1.041	3.75e3	1.75e6	0.190	-4.8	1.07	bb
2	200417R1_2	0.250	1.63	NO	33.66	1.041	4.51e3	1.75e6	0.229	-8.4	1.03	bb

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Compound name: PCB-96

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.68	NO	33.65	1.041	2.00e4	1.95e6	0.909	-9.1	1.02	bb
4	200417R1_4	2.50	1.67	NO	33.67	1.040	4.70e4	1.75e6	2.39	-4.4	1.07	bb
5	200417R1_5	50.0	1.62	NO	33.63	1.041	1.14e6	1.87e6	54.4	8.7	1.22	bb
6	200417R1_6	400	1.61	NO	33.61	1.040	8.48e6	1.60e6	472	18.0	1.33	bb

Compound name: PCB-103

Response Factor: 0.862187

RRF SD: 0.142464, Relative SD: 16.5235

Response type: Internal Std ( Ref 185 ), 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	200417R1_1	0.200	1.60	NO	34.21	1.058	2.69e3	1.75e6	0.178	-11.1	0.766	MM
2	200417R1_2	0.250	1.73	NO	34.22	1.058	3.29e3	1.75e6	0.218	-13.0	0.751	MM
3	200417R1_3	1.00	1.62	NO	34.21	1.058	1.49e4	1.95e6	0.884	-11.6	0.762	bb
4	200417R1_4	2.50	1.63	NO	34.25	1.058	3.54e4	1.75e6	2.34	-6.2	0.809	bb
5	200417R1_5	50.0	1.64	NO	34.19	1.058	9.47e5	1.87e6	58.7	17.5	1.01	bb
6	200417R1_6	400	1.62	NO	34.19	1.058	6.86e6	1.60e6	498	24.4	1.07	bb

Compound name: PCB-100

Response Factor: 0.903242

RRF SD: 0.125482, Relative SD: 13.8925

Response type: Internal Std ( Ref 185 ), 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	200417R1_1	0.200	1.53	NO	34.58	1.070	3.08e3	1.75e6	0.195	-2.7	0.879	MM
2	200417R1_2	0.250	1.58	NO	34.58	1.069	3.45e3	1.75e6	0.218	-12.8	0.787	MM
3	200417R1_3	1.00	1.61	NO	34.58	1.070	1.57e4	1.95e6	0.891	-10.9	0.804	bb
4	200417R1_4	2.50	1.55	NO	34.60	1.069	3.63e4	1.75e6	2.30	-8.2	0.830	bb
5	200417R1_5	50.0	1.62	NO	34.56	1.070	9.76e5	1.87e6	57.8	15.5	1.04	bb
6	200417R1_6	400	1.61	NO	34.54	1.069	6.88e6	1.60e6	476	19.1	1.08	bb

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**Compound name: PCB-94**

Response Factor: 0.907366

RRF SD: 0.0738886, Relative SD: 8.1432

Response type: Internal Std ( Ref 186 ), 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	200417R1_1	0.200	1.61	NO	35.05	0.985	2.45e3	1.36e6	0.199	-0.5	0.903	MM
2	200417R1_2	0.250	1.49	NO	35.06	0.985	2.79e3	1.33e6	0.231	-7.5	0.839	bb
3	200417R1_3	1.00	1.68	NO	35.06	0.985	1.25e4	1.46e6	0.943	-5.7	0.856	bb
4	200417R1_4	2.50	1.65	NO	35.08	0.985	2.85e4	1.33e6	2.36	-5.6	0.856	bb
5	200417R1_5	50.0	1.62	NO	35.05	0.985	7.57e5	1.57e6	53.0	6.0	0.962	bb
6	200417R1_6	400	1.61	NO	35.03	0.985	5.40e6	1.31e6	453	13.2	1.03	bb

**Compound name: PCB-95/98/102**

Response Factor: 1.18219

RRF SD: 0.128018, Relative SD: 10.8289

Response type: Internal Std ( Ref 186 ), 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	200417R1_1	0.600	1.64	NO	35.53	0.998	8.78e3	1.36e6	0.547	-8.8	1.08	MM
2	200417R1_2	0.750	1.50	NO	35.54	0.998	1.04e4	1.33e6	0.661	-11.8	1.04	MM
3	200417R1_3	3.00	1.67	NO	35.53	0.998	5.13e4	1.46e6	2.97	-1.2	1.17	bd
4	200417R1_4	7.50	1.65	NO	35.57	0.999	1.13e5	1.33e6	7.16	-4.6	1.13	bd
5	200417R1_5	150	1.63	NO	35.53	0.999	3.13e6	1.57e6	168	12.0	1.32	bd
6	200417R1_6	1200	1.61	NO	35.51	0.999	2.13e7	1.31e6	1370	14.3	1.35	bd

**Compound name: PCB-93**

Response Factor: 0.846691

RRF SD: 0.109579, Relative SD: 12.942

Response type: Internal Std ( Ref 186 ), 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	200417R1_1	0.200	1.46	NO	35.64	1.002	2.55e3	1.36e6	0.222	11.2	0.941	MM
2	200417R1_2	0.250	1.67	NO	35.65	1.002	2.88e3	1.33e6	0.256	2.4	0.867	MM

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**Compound name: PCB-93**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.66	NO	35.68	1.003	9.58e3	1.46e6	0.773	-22.7	0.655	dd
4	200417R1_4	2.50	1.66	NO	35.70	1.003	2.72e4	1.33e6	2.41	-3.5	0.817	db
5	200417R1_5	50.0	1.67	NO	35.66	1.003	6.61e5	1.57e6	49.6	-0.8	0.840	db
6	200417R1_6	400	1.65	NO	35.64	1.003	5.04e6	1.31e6	454	13.4	0.960	db

**Compound name: PCB-88/91**

Response Factor: 0.980907

RRF SD: 0.105604, Relative SD: 10.7659

Response type: Internal Std ( Ref 186 ), 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	200417R1_1	0.400	1.46	NO	36.01	1.012	5.24e3	1.36e6	0.394	-1.5	0.966	dd
2	200417R1_2	0.500	1.45	NO	36.03	1.012	5.85e3	1.33e6	0.449	-10.2	0.881	bd
3	200417R1_3	2.00	1.72	NO	36.01	1.012	2.58e4	1.46e6	1.80	-10.0	0.883	dd
4	200417R1_4	5.00	1.63	NO	36.03	1.012	6.39e4	1.33e6	4.90	-2.0	0.961	bd
5	200417R1_5	100	1.62	NO	35.99	1.012	1.63e6	1.57e6	105	5.3	1.03	bd
6	200417R1_6	800	1.61	NO	35.98	1.012	1.22e7	1.31e6	948	18.4	1.16	bd

**Compound name: PCB-121**

Response Factor: 1.54483

RRF SD: 0.202973, Relative SD: 13.1388

Response type: Internal Std ( Ref 186 ), 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	200417R1_1	0.200	1.51	NO	36.11	1.015	4.05e3	1.36e6	0.193	-3.3	1.49	db
2	200417R1_2	0.250	1.57	NO	36.12	1.015	4.57e3	1.33e6	0.222	-11.1	1.37	db
3	200417R1_3	1.00	1.64	NO	36.11	1.015	2.10e4	1.46e6	0.930	-7.0	1.44	db
4	200417R1_4	2.50	1.64	NO	36.13	1.015	4.57e4	1.33e6	2.23	-11.0	1.38	db
5	200417R1_5	50.0	1.63	NO	36.09	1.015	1.46e6	1.57e6	60.2	20.4	1.86	db
6	200417R1_6	400	1.63	NO	36.07	1.015	9.08e6	1.31e6	448	11.9	1.73	db

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**Compound name: PCB-84/92**

Response Factor: 0.976874

RRF SD: 0.0981589, Relative SD: 10.0483

Response type: Internal Std ( Ref 187 ), 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	200417R1_1	0.400	1.58	NO	36.94	0.990	5.01e3	1.33e6	0.385	-3.7	0.941	bd
2	200417R1_2	0.500	1.49	NO	36.96	0.990	5.78e3	1.29e6	0.457	-8.6	0.893	bd
3	200417R1_3	2.00	1.72	NO	36.94	0.990	2.53e4	1.41e6	1.84	-8.2	0.897	bd
4	200417R1_4	5.00	1.70	NO	36.96	0.990	5.94e4	1.26e6	4.81	-3.7	0.941	bd
5	200417R1_5	100	1.61	NO	36.93	0.990	1.70e6	1.62e6	107	7.4	1.05	bd
6	200417R1_6	800	1.62	NO	36.93	0.990	1.15e7	1.26e6	934	16.8	1.14	bd

**Compound name: PCB-89**

Response Factor: 1.11099

RRF SD: 0.0766057, Relative SD: 6.89528

Response type: Internal Std ( Ref 187 ), 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	200417R1_1	0.200	1.72	NO	37.13	0.995	2.73e3	1.33e6	0.185	-7.7	1.03	MM
2	200417R1_2	0.250	1.53	NO	37.14	0.995	3.40e3	1.29e6	0.237	-5.3	1.05	dd
3	200417R1_3	1.00	1.77	NO	37.13	0.995	1.54e4	1.41e6	0.979	-2.1	1.09	dd
4	200417R1_4	2.50	1.70	NO	37.15	0.995	3.45e4	1.26e6	2.46	-1.7	1.09	dd
5	200417R1_5	50.0	1.64	NO	37.11	0.995	9.71e5	1.62e6	54.1	8.2	1.20	dd
6	200417R1_6	400	1.62	NO	37.11	0.995	6.11e6	1.26e6	435	8.7	1.21	dd

**Compound name: PCB-90/101**

Response Factor: 1.08226

RRF SD: 0.0947062, Relative SD: 8.7508

Response type: Internal Std ( Ref 187 ), 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	200417R1_1	0.400	1.53	NO	37.32	1.000	5.52e3	1.33e6	0.383	-4.3	1.04	dd
2	200417R1_2	0.500	1.75	NO	37.33	1.000	6.37e3	1.29e6	0.455	-8.9	0.986	dd

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Compound name: PCB-90/101

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	2.00	1.60	NO	37.33	1.000	2.89e4	1.41e6	1.89	-5.4	1.02	dd
4	200417R1_4	5.00	1.67	NO	37.35	1.000	6.61e4	1.26e6	4.84	-3.3	1.05	dd
5	200417R1_5	100	1.61	NO	37.32	1.000	1.91e6	1.62e6	109	9.3	1.18	dd
6	200417R1_6	800	1.62	NO	37.30	1.000	1.23e7	1.26e6	901	12.6	1.22	dd

Compound name: PCB-113

Response Factor: 1.45554

RRF SD: 0.143129, Relative SD: 9.8334

Response type: Internal Std ( Ref 187 ), 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	200417R1_1	0.200	1.54	NO	37.58	1.007	4.15e3	1.33e6	0.214	7.2	1.56	dd
2	200417R1_2	0.250	1.56	NO	37.59	1.007	3.93e3	1.29e6	0.209	-16.6	1.21	dd
3	200417R1_3	1.00	1.76	NO	37.58	1.007	1.98e4	1.41e6	0.964	-3.6	1.40	dd
4	200417R1_4	2.50	1.63	NO	37.60	1.007	4.44e4	1.26e6	2.42	-3.4	1.41	dd
5	200417R1_5	50.0	1.61	NO	37.56	1.007	1.27e6	1.62e6	54.2	8.4	1.58	dd
6	200417R1_6	400	1.61	NO	37.56	1.007	7.95e6	1.26e6	432	7.9	1.57	dd

Compound name: PCB-99

Response Factor: 1.24206

RRF SD: 0.164196, Relative SD: 13.2197

Response type: Internal Std ( Ref 187 ), 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	200417R1_1	0.200	1.42	NO	37.67	1.010	2.88e3	1.33e6	0.174	-13.0	1.08	db
2	200417R1_2	0.250	1.67	NO	37.68	1.010	4.03e3	1.29e6	0.251	0.5	1.25	db
3	200417R1_3	1.00	1.64	NO	37.67	1.010	1.55e4	1.41e6	0.883	-11.7	1.10	db
4	200417R1_4	2.50	1.64	NO	37.69	1.010	3.69e4	1.26e6	2.35	-5.9	1.17	db
5	200417R1_5	50.0	1.64	NO	37.65	1.010	1.09e6	1.62e6	54.3	8.6	1.35	db
6	200417R1_6	400	1.64	NO	37.65	1.010	7.63e6	1.26e6	486	21.5	1.51	db



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**Compound name: PCB-119**

Response Factor: 1.66237

RRF SD: 0.18075, Relative SD: 10.873

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.200	1.46	NO	38.14	0.987	3.60e3	1.17e6	0.184	-7.9	1.53	bd
2	200417R1_2	0.250	1.64	NO	38.15	0.987	4.07e3	1.09e6	0.225	-10.1	1.49	dd
3	200417R1_3	1.00	1.68	NO	38.14	0.987	1.85e4	1.21e6	0.923	-7.7	1.53	bd
4	200417R1_4	2.50	1.63	NO	38.17	0.987	4.45e4	1.08e6	2.48	-0.8	1.65	bd
5	200417R1_5	50.0	1.61	NO	38.13	0.987	1.26e6	1.37e6	55.2	10.5	1.84	bd
6	200417R1_6	400	1.62	NO	38.12	0.987	8.30e6	1.08e6	464	16.1	1.93	bd

**Compound name: PCB-108/112**

Response Factor: 1.39149

RRF SD: 0.161511, Relative SD: 11.6071

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.400	1.63	NO	38.30	0.991	6.30e3	1.17e6	0.385	-3.6	1.34	dd
2	200417R1_2	0.500	1.58	NO	38.32	0.991	6.64e3	1.09e6	0.438	-12.3	1.22	dd
3	200417R1_3	2.00	1.64	NO	38.30	0.991	3.10e4	1.21e6	1.85	-7.6	1.29	dd
4	200417R1_4	5.00	1.65	NO	38.32	0.991	7.18e4	1.08e6	4.78	-4.4	1.33	dd
5	200417R1_5	100	1.62	NO	38.28	0.991	2.10e6	1.37e6	110	9.6	1.53	dd
6	200417R1_6	800	1.63	NO	38.28	0.991	1.42e7	1.08e6	947	18.4	1.65	dd

**Compound name: PCB-83**

Response Factor: 1.66623

RRF SD: 0.203931, Relative SD: 12.239

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.200	1.56	NO	38.47	0.996	3.47e3	1.17e6	0.177	-11.3	1.48	dd
2	200417R1_2	0.250	1.52	NO	38.47	0.995	4.16e3	1.09e6	0.229	-8.2	1.53	dd

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**Compound name: PCB-83**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.65	NO	38.47	0.996	1.86e4	1.21e6	0.926	-7.4	1.54	dd
4	200417R1_4	2.50	1.72	NO	38.49	0.995	4.34e4	1.08e6	2.41	-3.5	1.61	dd
5	200417R1_5	50.0	1.63	NO	38.45	0.995	1.28e6	1.37e6	56.0	12.0	1.87	dd
6	200417R1_6	400	1.66	NO	38.45	0.996	8.50e6	1.08e6	474	18.5	1.97	dd

**Compound name: PCB-97**

Response Factor: 1.25439

RRF SD: 0.112459, Relative SD: 8.96521

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.200	1.40	NO	38.67	1.001	3.00e3	1.17e6	0.203	1.7	1.28	MM
2	200417R1_2	0.250	1.67	NO	38.67	1.000	3.08e3	1.09e6	0.226	-9.8	1.13	dd
3	200417R1_3	1.00	1.55	NO	38.67	1.001	1.43e4	1.21e6	0.947	-5.3	1.19	dd
4	200417R1_4	2.50	1.67	NO	38.69	1.000	3.14e4	1.08e6	2.31	-7.4	1.16	dd
5	200417R1_5	50.0	1.62	NO	38.66	1.000	9.35e5	1.37e6	54.3	8.6	1.36	dd
6	200417R1_6	400	1.69	NO	38.64	1.000	6.05e6	1.08e6	449	12.1	1.41	dd

**Compound name: PCB-86**

Response Factor: 1.0935

RRF SD: 0.108448, Relative SD: 9.91752

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.200	1.64	NO	38.82	1.005	2.30e3	1.17e6	0.179	-10.4	0.980	MM
2	200417R1_2	0.250	1.75	NO	38.84	1.005	2.92e3	1.09e6	0.245	-1.8	1.07	dd
3	200417R1_3	1.00	1.66	NO	38.82	1.005	1.25e4	1.21e6	0.950	-5.0	1.04	dd
4	200417R1_4	2.50	1.59	NO	38.84	1.004	2.83e4	1.08e6	2.40	-4.2	1.05	dd
5	200417R1_5	50.0	1.60	NO	38.81	1.004	7.76e5	1.37e6	51.7	3.3	1.13	dd
6	200417R1_6	400	1.61	NO	38.81	1.005	5.56e6	1.08e6	472	18.1	1.29	dd

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**Compound name: PCB-87/117/125**

Response Factor: 1.53134

RRF SD: 0.212599, Relative SD: 13.8832

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.600	1.71	NO	38.94	1.008	1.02e4	1.17e6	0.567	-5.5	1.45	dd
2	200417R1_2	0.750	1.63	NO	38.95	1.008	1.05e4	1.09e6	0.629	-16.1	1.28	dd
3	200417R1_3	3.00	1.62	NO	38.95	1.008	5.00e4	1.21e6	2.71	-9.7	1.38	dd
4	200417R1_4	7.50	1.66	NO	38.97	1.008	1.21e5	1.08e6	7.31	-2.6	1.49	dd
5	200417R1_5	150	1.62	NO	38.94	1.008	3.67e6	1.37e6	175	16.4	1.78	dd
6	200417R1_6	1200	1.63	NO	38.94	1.008	2.32e7	1.08e6	1410	17.5	1.80	dd

**Compound name: PCB-111/115**

Response Factor: 1.81219

RRF SD: 0.222564, Relative SD: 12.2815

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.400	1.70	NO	39.10	1.012	7.99e3	1.17e6	0.376	-6.1	1.70	dd
2	200417R1_2	0.500	1.65	NO	39.12	1.012	8.50e3	1.09e6	0.431	-13.8	1.56	dd
3	200417R1_3	2.00	1.59	NO	39.10	1.012	4.15e4	1.21e6	1.90	-5.2	1.72	dd
4	200417R1_4	5.00	1.61	NO	39.14	1.012	9.32e4	1.08e6	4.76	-4.8	1.73	dd
5	200417R1_5	100	1.61	NO	39.10	1.012	2.76e6	1.37e6	111	10.9	2.01	dd
6	200417R1_6	800	1.62	NO	39.08	1.012	1.85e7	1.08e6	951	18.9	2.15	dd

**Compound name: PCB-85/116**

Response Factor: 1.32104

RRF SD: 0.165741, Relative SD: 12.5462

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.400	1.70	NO	39.23	1.015	5.36e3	1.17e6	0.345	-13.6	1.14	dd
2	200417R1_2	0.500	1.75	NO	39.25	1.015	6.78e3	1.09e6	0.472	-5.6	1.25	db

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**Compound name: PCB-85/116**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	2.00	1.61	NO	39.23	1.015	2.91e4	1.21e6	1.83	-8.7	1.21	db
4	200417R1_4	5.00	1.63	NO	39.25	1.015	6.92e4	1.08e6	4.85	-3.1	1.28	db
5	200417R1_5	100	1.62	NO	39.22	1.015	2.09e6	1.37e6	115	15.2	1.52	db
6	200417R1_6	800	1.63	NO	39.22	1.015	1.32e7	1.08e6	927	15.9	1.53	dd

**Compound name: PCB-120**

Response Factor: 1.89723

RRF SD: 0.270755, Relative SD: 14.2711

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.200	1.62	NO	39.49	1.022	4.22e3	1.17e6	0.189	-5.3	1.80	dd
2	200417R1_2	0.250	1.43	NO	39.51	1.022	4.35e3	1.09e6	0.210	-15.8	1.60	MM
3	200417R1_3	1.00	1.61	NO	39.49	1.022	2.10e4	1.21e6	0.918	-8.2	1.74	bd
4	200417R1_4	2.50	1.63	NO	39.51	1.022	4.83e4	1.08e6	2.36	-5.7	1.79	bd
5	200417R1_5	50.0	1.61	NO	39.47	1.022	1.49e6	1.37e6	57.0	14.0	2.16	bd
6	200417R1_6	400	1.62	NO	39.47	1.022	9.89e6	1.08e6	484	21.1	2.30	dd

**Compound name: PCB-110**

Response Factor: 1.65079

RRF SD: 0.17596, Relative SD: 10.6591

Response type: Internal Std ( Ref 188 ), 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	200417R1_1	0.200	1.76	NO	39.62	1.026	3.58e3	1.17e6	0.185	-7.6	1.53	db
2	200417R1_2	0.250	1.37	NO	39.64	1.026	4.20e3	1.09e6	0.234	-6.4	1.55	MM
3	200417R1_3	1.00	1.63	NO	39.62	1.026	1.82e4	1.21e6	0.915	-8.5	1.51	db
4	200417R1_4	2.50	1.65	NO	39.66	1.026	4.24e4	1.08e6	2.38	-4.9	1.57	db
5	200417R1_5	50.0	1.62	NO	39.62	1.026	1.29e6	1.37e6	56.9	13.9	1.88	db
6	200417R1_6	400	1.61	NO	39.60	1.026	8.06e6	1.08e6	454	13.5	1.87	db

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**Compound name: PCB-82**

Response Factor: 0.778832

RRF SD: 0.0734248, Relative SD: 9.42755

Response type: Internal Std ( Ref 189 ), 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	200417R1_1	0.200	1.75	NO	40.26	0.975	2.34e3	1.48e6	0.203	1.6	0.791	MM
2	200417R1_2	0.250	1.57	NO	40.27	0.976	2.38e3	1.40e6	0.219	-12.4	0.682	bb
3	200417R1_3	1.00	1.61	NO	40.28	0.976	1.10e4	1.53e6	0.920	-8.0	0.717	db
4	200417R1_4	2.50	1.63	NO	40.29	0.976	2.68e4	1.39e6	2.48	-0.9	0.772	dd
5	200417R1_5	50.0	1.62	NO	40.26	0.976	7.78e5	1.88e6	53.0	6.0	0.825	bb
6	200417R1_6	400	1.62	NO	40.26	0.976	4.92e6	1.39e6	455	13.7	0.886	db

**Compound name: PCB-124**

Response Factor: 1.31997

RRF SD: 0.144787, Relative SD: 10.969

Response type: Internal Std ( Ref 189 ), 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	200417R1_1	0.200	1.42	NO	40.98	0.993	3.68e3	1.48e6	0.189	-5.5	1.25	bd
2	200417R1_2	0.250	1.50	NO	41.00	0.993	4.49e3	1.40e6	0.243	-2.6	1.29	MM
3	200417R1_3	1.00	1.60	NO	40.98	0.993	1.83e4	1.53e6	0.907	-9.3	1.20	bd
4	200417R1_4	2.50	1.59	NO	41.00	0.993	4.27e4	1.39e6	2.33	-6.7	1.23	bd
5	200417R1_5	50.0	1.63	NO	40.96	0.993	1.29e6	1.88e6	51.9	3.8	1.37	bd
6	200417R1_6	400	1.60	NO	40.96	0.993	8.84e6	1.39e6	482	20.4	1.59	bd

**Compound name: PCB-107/109**

Response Factor: 1.29643

RRF SD: 0.169838, Relative SD: 13.1004

Response type: Internal Std ( Ref 189 ), 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	200417R1_1	0.400	1.51	NO	41.11	0.996	7.00e3	1.48e6	0.365	-8.6	1.18	dd
2	200417R1_2	0.500	1.43	NO	41.13	0.996	8.19e3	1.40e6	0.452	-9.5	1.17	MM

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**Compound name: PCB-107/109**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	2.00	1.71	NO	41.13	0.996	3.68e4	1.53e6	1.85	-7.4	1.20	dd
4	200417R1_4	5.00	1.58	NO	41.13	0.996	8.36e4	1.39e6	4.65	-7.0	1.21	dd
5	200417R1_5	100	1.63	NO	41.11	0.996	2.71e6	1.88e6	111	11.0	1.44	dd
6	200417R1_6	800	1.62	NO	41.09	0.996	1.75e7	1.39e6	973	21.6	1.58	dd

**Compound name: PCB-123**

Response Factor: 1.18675

RRF SD: 0.136976, Relative SD: 11.5421

Response type: Internal Std ( Ref 189 ), 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	200417R1_1	0.200	1.44	NO	41.30	1.000	3.39e3	1.48e6	0.194	-3.2	1.15	dd
2	200417R1_2	0.250	1.46	NO	41.29	1.000	3.46e3	1.40e6	0.209	-16.5	0.991	dd
3	200417R1_3	1.00	1.63	NO	41.30	1.000	1.76e4	1.53e6	0.968	-3.2	1.15	dd
4	200417R1_4	2.50	1.72	NO	41.32	1.000	3.97e4	1.39e6	2.41	-3.5	1.15	dd
5	200417R1_5	50.0	1.62	NO	41.28	1.000	1.24e6	1.88e6	55.4	10.7	1.31	dd
6	200417R1_6	400	1.61	NO	41.28	1.000	7.63e6	1.39e6	463	15.7	1.37	dd

**Compound name: PCB-106/118**

Response Factor: 1.21631

RRF SD: 0.102047, Relative SD: 8.38992

Response type: Internal Std ( Ref 190 ), 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	200417R1_1	0.400	1.68	NO	41.50	1.001	7.48e3	1.53e6	0.402	0.5	1.22	MM
2	200417R1_2	0.500	1.47	NO	41.52	1.001	8.10e3	1.46e6	0.457	-8.6	1.11	MM
3	200417R1_3	2.00	1.63	NO	41.50	1.001	3.56e4	1.59e6	1.85	-7.6	1.12	dd
4	200417R1_4	5.00	1.65	NO	41.52	1.001	8.26e4	1.42e6	4.79	-4.1	1.17	MM
5	200417R1_5	100	1.63	NO	41.50	1.001	2.63e6	2.01e6	108	7.8	1.31	MM
6	200417R1_6	800	1.62	NO	41.49	1.001	1.68e7	1.54e6	896	12.0	1.36	MM

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**Compound name: PCB-114**

Response Factor: 0.885534

RRF SD: 0.110664, Relative SD: 12.4969

Response type: Internal Std ( Ref 191 ), 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	200417R1_1	0.200	1.48	NO	42.14	1.000	3.16e3	1.93e6	0.184	-7.8	0.817	MM
2	200417R1_2	0.250	1.55	NO	42.15	1.000	3.70e3	1.90e6	0.220	-12.0	0.780	MM
3	200417R1_3	1.00	1.61	NO	42.16	1.001	1.67e4	2.04e6	0.923	-7.7	0.817	MM
4	200417R1_4	2.50	1.52	NO	42.18	1.001	3.88e4	1.83e6	2.40	-4.1	0.849	MM
5	200417R1_5	50.0	1.50	NO	42.14	1.000	1.29e6	2.53e6	57.4	14.8	1.02	MM
6	200417R1_6	400	1.50	NO	42.14	1.000	7.78e6	1.88e6	467	16.8	1.03	MM

**Compound name: PCB-122**

Response Factor: 0.740663

RRF SD: 0.0942036, Relative SD: 12.7188

Response type: Internal Std ( Ref 191 ), 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	200417R1_1	0.200	1.49	NO	42.29	1.004	2.77e3	1.93e6	0.194	-3.2	0.717	dd
2	200417R1_2	0.250	1.74	NO	42.29	1.004	2.94e3	1.90e6	0.209	-16.3	0.620	MM
3	200417R1_3	1.00	1.64	NO	42.29	1.004	1.39e4	2.04e6	0.917	-8.3	0.679	MM
4	200417R1_4	2.50	1.55	NO	42.31	1.004	3.35e4	1.83e6	2.47	-1.2	0.732	MM
5	200417R1_5	50.0	1.50	NO	42.27	1.004	1.03e6	2.53e6	55.1	10.2	0.816	MM
6	200417R1_6	400	1.50	NO	42.27	1.004	6.63e6	1.88e6	476	18.9	0.881	MM

**Compound name: PCB-105**

Response Factor: 0.85029

RRF SD: 0.0994737, Relative SD: 11.6988

Response type: Internal Std ( Ref 192 ), 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	200417R1_1	0.200	1.49	NO	43.03	1.000	3.05e3	2.00e6	0.179	-10.3	0.763	bd
2	200417R1_2	0.250	1.53	NO	43.04	1.000	4.27e3	2.21e6	0.227	-9.2	0.772	dd

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**Compound name: PCB-105**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.47	NO	43.03	1.000	1.84e4	2.29e6	0.944	-5.6	0.803	bd
4	200417R1_4	2.50	1.53	NO	43.05	1.000	4.25e4	2.09e6	2.39	-4.4	0.813	bd
5	200417R1_5	50.0	1.51	NO	43.03	1.000	1.35e6	2.81e6	56.5	13.1	0.962	dd
6	200417R1_6	400	1.49	NO	43.01	1.000	8.01e6	2.02e6	466	16.5	0.990	bd

**Compound name: PCB-127**

Response Factor: 0.858042

RRF SD: 0.101337, Relative SD: 11.8103

Response type: Internal Std ( Ref 193 ), 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	200417R1_1	0.200	1.42	NO	43.39	1.000	3.22e3	2.04e6	0.184	-8.2	0.788	db
2	200417R1_2	0.250	1.62	NO	43.39	1.000	4.78e3	2.50e6	0.223	-10.9	0.765	MM
3	200417R1_3	1.00	1.46	NO	43.39	1.000	2.14e4	2.65e6	0.940	-6.0	0.807	db
4	200417R1_4	2.50	1.50	NO	43.41	1.000	4.74e4	2.32e6	2.38	-4.7	0.818	db
5	200417R1_5	50.0	1.50	NO	43.37	1.000	1.52e6	3.16e6	56.1	12.1	0.962	db
6	200417R1_6	400	1.50	NO	43.37	1.000	8.55e6	2.12e6	470	17.5	1.01	db

**Compound name: PCB-126**

Response Factor: 0.961845

RRF SD: 0.11401, Relative SD: 11.8533

Response type: Internal Std ( Ref 194 ), 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	200417R1_1	0.200	1.35	NO	45.32	1.000	3.36e3	1.81e6	0.193	-3.5	0.928	db
2	200417R1_2	0.250	1.47	NO	45.34	1.000	3.88e3	1.88e6	0.214	-14.3	0.824	MM
3	200417R1_3	1.00	1.49	NO	45.32	1.000	1.81e4	2.02e6	0.932	-6.8	0.896	db
4	200417R1_4	2.50	1.50	NO	45.34	1.000	4.12e4	1.78e6	2.40	-3.9	0.924	db
5	200417R1_5	50.0	1.52	NO	45.32	1.000	1.34e6	2.51e6	55.7	11.5	1.07	db
6	200417R1_6	400	1.50	NO	45.31	1.000	8.14e6	1.81e6	468	17.1	1.13	db



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**Compound name: PCB-155**

Response Factor: 1.01464

RRF SD: 0.095568, Relative SD: 9.41889

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.11	NO	36.87	1.000	2.10e3	1.04e6	0.200	-0.2	1.01	bb
2	200417R1_2	0.250	1.36	NO	36.88	1.001	2.36e3	9.88e5	0.235	-5.9	0.955	bb
3	200417R1_3	1.00	1.41	NO	36.87	1.000	9.99e3	1.09e6	0.900	-10.0	0.913	bb
4	200417R1_4	2.50	1.35	NO	36.89	1.000	2.38e4	1.00e6	2.34	-6.5	0.949	bb
5	200417R1_5	50.0	1.32	NO	36.85	1.000	6.70e5	1.21e6	54.4	8.8	1.10	bb
6	200417R1_6	400	1.31	NO	36.85	1.001	4.32e6	9.36e5	455	13.8	1.15	bb

**Compound name: PCB-150**

Response Factor: 1.04571

RRF SD: 0.127789, Relative SD: 12.2203

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.17	NO	38.15	1.035	2.04e3	1.04e6	0.188	-6.1	0.982	bb
2	200417R1_2	0.250	1.37	NO	38.17	1.036	2.49e3	9.88e5	0.241	-3.7	1.01	db
3	200417R1_3	1.00	1.34	NO	38.15	1.035	1.02e4	1.09e6	0.893	-10.7	0.934	bb
4	200417R1_4	2.50	1.36	NO	38.17	1.035	2.38e4	1.00e6	2.27	-9.1	0.951	bb
5	200417R1_5	50.0	1.32	NO	38.15	1.036	6.93e5	1.21e6	54.6	9.1	1.14	bb
6	200417R1_6	400	1.31	NO	38.14	1.036	4.71e6	9.36e5	482	20.4	1.26	bb

**Compound name: PCB-152**

Response Factor: 1.20067

RRF SD: 0.129184, Relative SD: 10.7593

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.14	NO	38.64	1.048	2.51e3	1.04e6	0.201	0.7	1.21	bb
2	200417R1_2	0.250	1.22	NO	38.65	1.049	2.78e3	9.88e5	0.235	-6.2	1.13	bb

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Compound name: PCB-152

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.37	NO	38.64	1.048	1.16e4	1.09e6	0.885	-11.5	1.06	bb
4	200417R1_4	2.50	1.33	NO	38.67	1.049	2.76e4	1.00e6	2.30	-8.1	1.10	bb
5	200417R1_5	50.0	1.31	NO	38.64	1.049	7.92e5	1.21e6	54.3	8.7	1.30	bb
6	200417R1_6	400	1.32	NO	38.62	1.049	5.23e6	9.36e5	465	16.4	1.40	bb

Compound name: PCB-145

Response Factor: 1.17129

RRF SD: 0.147622, Relative SD: 12.6034

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.39	NO	39.10	1.061	2.39e3	1.04e6	0.197	-1.7	1.15	MM
2	200417R1_2	0.250	1.22	NO	39.10	1.061	2.60e3	9.88e5	0.225	-10.2	1.05	bb
3	200417R1_3	1.00	1.30	NO	39.10	1.061	1.16e4	1.09e6	0.908	-9.2	1.06	bb
4	200417R1_4	2.50	1.30	NO	39.12	1.061	2.65e4	1.00e6	2.26	-9.7	1.06	bb
5	200417R1_5	50.0	1.31	NO	39.08	1.061	7.91e5	1.21e6	55.6	11.3	1.30	bb
6	200417R1_6	400	1.32	NO	39.08	1.062	5.24e6	9.36e5	478	19.5	1.40	bb

Compound name: PCB-136

Response Factor: 1.00719

RRF SD: 0.113528, Relative SD: 11.2717

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.42	NO	39.44	1.070	1.93e3	1.04e6	0.184	-7.9	0.928	bd
2	200417R1_2	0.250	1.16	NO	39.43	1.070	2.46e3	9.88e5	0.247	-1.1	0.996	bd
3	200417R1_3	1.00	1.33	NO	39.42	1.070	9.83e3	1.09e6	0.892	-10.8	0.899	bd
4	200417R1_4	2.50	1.24	NO	39.46	1.070	2.37e4	1.00e6	2.35	-6.0	0.947	bd
5	200417R1_5	50.0	1.33	NO	39.42	1.070	6.49e5	1.21e6	53.1	6.2	1.07	bd
6	200417R1_6	400	1.32	NO	39.40	1.070	4.51e6	9.36e5	478	19.5	1.20	bd

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**Compound name: PCB-148**

Response Factor: 0.769941

RRF SD: 0.120621, Relative SD: 15.6662

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.39	NO	39.53	1.073	1.44e3	1.04e6	0.180	-9.8	0.694	MM
2	200417R1_2	0.250	1.23	NO	39.56	1.074	1.58e3	9.88e5	0.207	-17.1	0.638	db
3	200417R1_3	1.00	1.32	NO	39.55	1.073	8.07e3	1.09e6	0.958	-4.2	0.738	db
4	200417R1_4	2.50	1.35	NO	39.57	1.073	1.78e4	1.00e6	2.30	-7.8	0.710	db
5	200417R1_5	50.0	1.33	NO	39.53	1.073	5.56e5	1.21e6	59.4	18.9	0.915	db
6	200417R1_6	400	1.32	NO	39.53	1.074	3.46e6	9.36e5	480	20.1	0.924	db

**Compound name: PCB-154**

Response Factor: 0.86227

RRF SD: 0.103236, Relative SD: 11.9726

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.39	NO	40.05	1.087	1.66e3	1.04e6	0.185	-7.5	0.798	bb
2	200417R1_2	0.250	1.31	NO	40.05	1.087	2.28e3	9.88e5	0.267	6.9	0.922	bb
3	200417R1_3	1.00	1.42	NO	40.05	1.087	8.14e3	1.09e6	0.863	-13.7	0.744	bb
4	200417R1_4	2.50	1.34	NO	40.07	1.087	1.93e4	1.00e6	2.24	-10.5	0.772	bb
5	200417R1_5	50.0	1.33	NO	40.03	1.087	5.76e5	1.21e6	55.0	10.0	0.948	bb
6	200417R1_6	400	1.31	NO	40.03	1.087	3.70e6	9.36e5	459	14.7	0.989	bb

**Compound name: PCB-151**

Response Factor: 0.722526

RRF SD: 0.0961513, Relative SD: 13.3076

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.12	NO	40.70	1.105	1.42e3	1.04e6	0.189	-5.6	0.682	bb
2	200417R1_2	0.250	1.24	NO	40.72	1.105	1.65e3	9.88e5	0.231	-7.5	0.668	bd

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**Compound name: PCB-151**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.24	NO	40.70	1.105	7.44e3	1.09e6	0.941	-5.9	0.680	bd
4	200417R1_4	2.50	1.27	NO	40.72	1.105	1.55e4	1.00e6	2.15	-14.1	0.621	bd
5	200417R1_5	50.0	1.31	NO	40.70	1.105	4.99e5	1.21e6	56.9	13.9	0.823	bd
6	200417R1_6	400	1.31	NO	40.69	1.105	3.23e6	9.36e5	477	19.3	0.862	bd

**Compound name: PCB-135**

Response Factor: 0.835895

RRF SD: 0.125434, Relative SD: 15.0059

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.15	NO	40.93	1.111	1.61e3	1.04e6	0.186	-7.0	0.777	bd
2	200417R1_2	0.250	1.17	NO	40.94	1.111	1.99e3	9.88e5	0.241	-3.6	0.806	dd
3	200417R1_3	1.00	1.29	NO	40.93	1.111	7.87e3	1.09e6	0.860	-14.0	0.719	dd
4	200417R1_4	2.50	1.32	NO	40.95	1.110	1.82e4	1.00e6	2.18	-12.8	0.729	dd
5	200417R1_5	50.0	1.33	NO	40.93	1.111	5.93e5	1.21e6	58.4	16.8	0.977	dd
6	200417R1_6	400	1.31	NO	40.91	1.111	3.77e6	9.36e5	482	20.5	1.01	dd

**Compound name: PCB-144**

Response Factor: 0.755775

RRF SD: 0.101739, Relative SD: 13.4616

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.42	NO	41.04	1.114	1.41e3	1.04e6	0.180	-9.9	0.681	MM
2	200417R1_2	0.250	1.28	NO	41.03	1.114	1.91e3	9.88e5	0.255	2.1	0.772	dd
3	200417R1_3	1.00	1.33	NO	41.04	1.114	7.43e3	1.09e6	0.899	-10.1	0.679	dd
4	200417R1_4	2.50	1.39	NO	41.06	1.114	1.66e4	1.00e6	2.19	-12.5	0.661	dd
5	200417R1_5	50.0	1.34	NO	41.02	1.114	4.99e5	1.21e6	54.4	8.9	0.823	dd
6	200417R1_6	400	1.32	NO	41.02	1.114	3.44e6	9.36e5	486	21.6	0.919	dd

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**Compound name: PCB-147**

Response Factor: 0.788537

RRF SD: 0.129892, Relative SD: 16.4726

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.41	NO	41.17	1.117	1.47e3	1.04e6	0.180	-10.0	0.709	MM
2	200417R1_2	0.250	1.35	NO	41.18	1.118	2.03e3	9.88e5	0.261	4.3	0.822	db
3	200417R1_3	1.00	1.34	NO	41.17	1.117	7.31e3	1.09e6	0.847	-15.3	0.668	dd
4	200417R1_4	2.50	1.19	NO	41.19	1.117	1.67e4	1.00e6	2.11	-15.6	0.665	db
5	200417R1_5	50.0	1.31	NO	41.17	1.118	5.34e5	1.21e6	55.8	11.6	0.880	db
6	200417R1_6	400	1.32	NO	41.15	1.118	3.69e6	9.36e5	500	25.0	0.986	db

**Compound name: PCB-139/149**

Response Factor: 0.895511

RRF SD: 0.126735, Relative SD: 14.1523

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.400	1.34	NO	41.45	1.125	3.50e3	1.04e6	0.377	-5.8	0.844	dd
2	200417R1_2	0.500	1.13	NO	41.44	1.125	4.02e3	9.88e5	0.455	-9.0	0.815	bd
3	200417R1_3	2.00	1.40	NO	41.45	1.125	1.75e4	1.09e6	1.79	-10.7	0.800	dd
4	200417R1_4	5.00	1.32	NO	41.47	1.125	4.02e4	1.00e6	4.48	-10.4	0.803	bd
5	200417R1_5	100	1.32	NO	41.43	1.125	1.25e6	1.21e6	115	14.7	1.03	bd
6	200417R1_6	800	1.32	NO	41.43	1.125	8.12e6	9.36e5	969	21.2	1.09	bd

**Compound name: PCB-140**

Response Factor: 0.7691

RRF SD: 0.0798421, Relative SD: 10.3812

Response type: Internal Std ( Ref 195 ), 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	200417R1_1	0.200	1.25	NO	41.63	1.130	1.61e3	1.04e6	0.201	0.6	0.773	db
2	200417R1_2	0.250	1.13	NO	41.63	1.130	1.87e3	9.88e5	0.247	-1.3	0.759	db

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**Compound name: PCB-140**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.27	NO	41.63	1.130	7.59e3	1.09e6	0.902	-9.8	0.694	db
4	200417R1_4	2.50	1.28	NO	41.65	1.130	1.68e4	1.00e6	2.18	-12.6	0.672	db
5	200417R1_5	50.0	1.32	NO	41.62	1.130	5.09e5	1.21e6	54.5	9.0	0.839	db
6	200417R1_6	400	1.32	NO	41.62	1.130	3.29e6	9.36e5	457	14.1	0.878	db

**Compound name: PCB-134/143**

Response Factor: 0.653392  
 RRF SD: 0.0951126, Relative SD: 14.5567  
 Response type: Internal Std ( Ref 196 ), 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	200417R1_1	0.400	1.41	NO	42.08	0.975	5.29e3	1.89e6	0.430	7.4	0.702	bd
2	200417R1_2	0.500	1.33	NO	42.08	0.974	6.13e3	2.22e6	0.422	-15.7	0.551	bb
3	200417R1_3	2.00	1.32	NO	42.08	0.975	2.64e4	2.33e6	1.73	-13.3	0.567	bb
4	200417R1_4	5.00	1.28	NO	42.10	0.975	6.31e4	2.08e6	4.65	-7.0	0.608	bb
5	200417R1_5	100	1.27	NO	42.06	0.974	1.93e6	2.78e6	106	6.3	0.694	bb
6	200417R1_6	800	1.25	NO	42.06	0.975	1.20e7	1.89e6	978	22.3	0.799	bb

**Compound name: PCB-131/133**

Response Factor: 0.676681  
 RRF SD: 0.117593, Relative SD: 17.3779  
 Response type: Internal Std ( Ref 196 ), 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	200417R1_1	0.400	1.13	NO	42.39	0.982	5.29e3	1.89e6	0.414	3.6	0.701	dd
2	200417R1_2	0.500	1.29	NO	42.40	0.982	5.95e3	2.22e6	0.396	-20.9	0.535	bd
3	200417R1_3	2.00	1.30	NO	42.39	0.982	2.74e4	2.33e6	1.74	-13.1	0.588	bd
4	200417R1_4	5.00	1.28	NO	42.41	0.982	6.44e4	2.08e6	4.59	-8.3	0.621	bd
5	200417R1_5	100	1.26	NO	42.39	0.982	2.13e6	2.78e6	113	13.2	0.766	bd
6	200417R1_6	800	1.24	NO	42.37	0.982	1.28e7	1.89e6	1000	25.5	0.849	bd

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**Compound name: PCB-142**

Response Factor: 0.613664

RRF SD: 0.103611, Relative SD: 16.884

Response type: Internal Std ( Ref 196 ), 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	200417R1_1	0.200	1.22	NO	42.54	0.985	2.70e3	1.89e6	0.233	16.6	0.716	dd
2	200417R1_2	0.250	1.31	NO	42.55	0.985	2.67e3	2.22e6	0.196	-21.6	0.481	db
3	200417R1_3	1.00	1.26	NO	42.54	0.985	1.24e4	2.33e6	0.871	-12.9	0.535	dd
4	200417R1_4	2.50	1.26	NO	42.56	0.985	2.93e4	2.08e6	2.30	-8.1	0.564	db
5	200417R1_5	50.0	1.27	NO	42.54	0.985	9.00e5	2.78e6	52.7	5.4	0.647	dd
6	200417R1_6	400	1.26	NO	42.52	0.985	5.58e6	1.89e6	482	20.5	0.740	dd

**Compound name: PCB-146/165**

Response Factor: 0.836347

RRF SD: 0.12236, Relative SD: 14.6303

Response type: Internal Std ( Ref 196 ), 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	200417R1_1	0.400	1.31	NO	42.78	0.991	6.58e3	1.89e6	0.417	4.3	0.872	db
2	200417R1_2	0.500	1.28	NO	42.78	0.990	7.87e3	2.22e6	0.423	-15.4	0.708	bb
3	200417R1_3	2.00	1.31	NO	42.78	0.991	3.41e4	2.33e6	1.75	-12.3	0.734	dd
4	200417R1_4	5.00	1.26	NO	42.80	0.991	7.99e4	2.08e6	4.60	-7.9	0.770	bb
5	200417R1_5	100	1.25	NO	42.77	0.990	2.52e6	2.78e6	108	8.2	0.905	dd
6	200417R1_6	800	1.25	NO	42.77	0.991	1.55e7	1.89e6	985	23.1	1.03	dd

**Compound name: PCB-132/161**

Response Factor: 0.907818

RRF SD: 0.114858, Relative SD: 12.6521

Response type: Internal Std ( Ref 196 ), 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	200417R1_1	0.400	1.25	NO	43.01	0.996	6.63e3	1.89e6	0.387	-3.2	0.879	bd
2	200417R1_2	0.500	1.22	NO	43.03	0.996	8.77e3	2.22e6	0.434	-13.1	0.789	bd

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Compound name: PCB-132/161

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	2.00	1.23	NO	43.03	0.997	3.81e4	2.33e6	1.81	-9.7	0.819	dd
4	200417R1_4	5.00	1.26	NO	43.03	0.996	9.04e4	2.08e6	4.80	-4.0	0.871	bd
5	200417R1_5	100	1.25	NO	43.01	0.996	2.77e6	2.78e6	110	9.8	0.997	dd
6	200417R1_6	800	1.27	NO	43.01	0.997	1.65e7	1.89e6	962	20.3	1.09	dd

Compound name: PCB-153

Response Factor: 1.00114

RRF SD: 0.0911695, Relative SD: 9.10657

Response type: Internal Std ( Ref 196 ), 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	200417R1_1	0.200	1.24	NO	43.20	1.000	3.63e3	1.89e6	0.192	-3.8	0.963	dd
2	200417R1_2	0.250	1.14	NO	43.22	1.000	4.93e3	2.22e6	0.222	-11.4	0.887	dd
3	200417R1_3	1.00	1.29	NO	43.20	1.000	2.26e4	2.33e6	0.969	-3.1	0.971	dd
4	200417R1_4	2.50	1.27	NO	43.22	1.000	5.00e4	2.08e6	2.41	-3.8	0.963	dd
5	200417R1_5	50.0	1.25	NO	43.20	1.000	1.52e6	2.78e6	54.6	9.2	1.09	dd
6	200417R1_6	400	1.22	NO	43.18	1.000	8.51e6	1.89e6	451	12.8	1.13	dd

Compound name: PCB-168

Response Factor: 1.00341

RRF SD: 0.105433, Relative SD: 10.5075

Response type: Internal Std ( Ref 196 ), 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	200417R1_1	0.200	1.29	NO	43.43	1.006	3.61e3	1.89e6	0.191	-4.6	0.958	db
2	200417R1_2	0.250	1.22	NO	43.42	1.005	4.92e3	2.22e6	0.221	-11.8	0.885	db
3	200417R1_3	1.00	1.27	NO	43.43	1.006	2.21e4	2.33e6	0.946	-5.4	0.949	db
4	200417R1_4	2.50	1.24	NO	43.45	1.006	4.99e4	2.08e6	2.40	-4.1	0.962	db
5	200417R1_5	50.0	1.25	NO	43.41	1.005	1.54e6	2.78e6	55.2	10.4	1.11	db
6	200417R1_6	400	1.25	NO	43.41	1.006	8.73e6	1.89e6	462	15.4	1.16	db



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**Compound name: PCB-141**

Response Factor: 0.970218

RRF SD: 0.088543, Relative SD: 9.12609

Response type: Internal Std ( Ref 197 ), 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	200417R1_1	0.200	1.42	NO	43.96	1.000	2.86e3	1.55e6	0.190	-4.8	0.923	MM
2	200417R1_2	0.250	1.07	NO	43.97	1.000	3.89e3	1.69e6	0.237	-5.2	0.919	bb
3	200417R1_3	1.00	1.31	NO	43.96	1.000	1.65e4	1.82e6	0.931	-6.9	0.903	bd
4	200417R1_4	2.50	1.22	NO	43.98	1.000	3.65e4	1.60e6	2.36	-5.7	0.915	bd
5	200417R1_5	50.0	1.25	NO	43.96	1.000	1.14e6	2.18e6	53.8	7.7	1.04	bd
6	200417R1_6	400	1.25	NO	43.94	1.000	6.47e6	1.45e6	460	15.0	1.12	MM

**Compound name: PCB-137**

Response Factor: 0.912832

RRF SD: 0.144466, Relative SD: 15.8262

Response type: Internal Std ( Ref 197 ), 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	200417R1_1	0.200	1.15	NO	44.36	1.010	2.78e3	1.55e6	0.197	-1.6	0.899	MM
2	200417R1_2	0.250	1.26	NO	44.35	1.009	3.34e3	1.69e6	0.216	-13.5	0.789	bd
3	200417R1_3	1.00	1.21	NO	44.36	1.010	1.45e4	1.82e6	0.868	-13.2	0.792	bd
4	200417R1_4	2.50	1.28	NO	44.38	1.010	3.36e4	1.60e6	2.30	-7.9	0.841	bd
5	200417R1_5	50.0	1.24	NO	44.34	1.009	1.08e6	2.18e6	54.4	8.8	0.993	bd
6	200417R1_6	400	1.23	NO	44.34	1.010	6.74e6	1.45e6	510	27.4	1.16	bd

**Compound name: PCB-130**

Response Factor: 0.802838

RRF SD: 0.0930017, Relative SD: 11.5841

Response type: Internal Std ( Ref 197 ), 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	200417R1_1	0.200	1.36	NO	44.45	1.012	2.43e3	1.55e6	0.195	-2.5	0.782	dd
2	200417R1_2	0.250	1.16	NO	44.47	1.012	2.86e3	1.69e6	0.210	-15.9	0.675	MM

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**Compound name: PCB-130**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.23	NO	44.45	1.012	1.37e4	1.82e6	0.936	-6.4	0.752	MM
4	200417R1_4	2.50	1.25	NO	44.47	1.012	3.16e4	1.60e6	2.47	-1.3	0.793	MM
5	200417R1_5	50.0	1.26	NO	44.45	1.012	9.56e5	2.18e6	54.6	9.2	0.877	MM
6	200417R1_6	400	1.26	NO	44.43	1.012	5.44e6	1.45e6	468	16.9	0.939	MM

**Compound name: PCB-138/163/164**

Response Factor: 1.21082

RRF SD: 0.14149, Relative SD: 11.6855

Response type: Internal Std ( Ref 198 ), 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	200417R1_1	0.600	1.27	NO	44.85	1.001	1.09e4	1.57e6	0.574	-4.4	1.16	bd
2	200417R1_2	0.750	1.31	NO	44.85	1.001	1.29e4	1.63e6	0.651	-13.2	1.05	bd
3	200417R1_3	3.00	1.28	NO	44.85	1.001	5.97e4	1.76e6	2.81	-6.4	1.13	bd
4	200417R1_4	7.50	1.26	NO	44.87	1.001	1.37e5	1.58e6	7.18	-4.3	1.16	bd
5	200417R1_5	150	1.25	NO	44.85	1.001	4.30e6	2.15e6	166	10.4	1.34	bd
6	200417R1_6	1200	1.24	NO	44.83	1.001	2.58e7	1.51e6	1410	17.9	1.43	bd

**Compound name: PCB-158/160**

Response Factor: 1.10406

RRF SD: 0.135059, Relative SD: 12.2329

Response type: Internal Std ( Ref 198 ), 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	200417R1_1	0.400	1.28	NO	45.10	1.007	6.52e3	1.57e6	0.376	-6.1	1.04	dd
2	200417R1_2	0.500	1.34	NO	45.09	1.006	8.07e3	1.63e6	0.448	-10.5	0.989	dd
3	200417R1_3	2.00	1.28	NO	45.10	1.007	3.56e4	1.76e6	1.83	-8.3	1.01	dd
4	200417R1_4	5.00	1.29	NO	45.10	1.006	8.23e4	1.58e6	4.73	-5.5	1.04	dd
5	200417R1_5	100	1.25	NO	45.08	1.006	2.62e6	2.15e6	110	10.5	1.22	dd
6	200417R1_6	800	1.25	NO	45.08	1.006	1.60e7	1.51e6	959	19.8	1.32	dd

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**Compound name: PCB-129**

Response Factor: 0.779257

RRF SD: 0.0900934, Relative SD: 11.5615

Response type: Internal Std ( Ref 198 ), 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	200417R1_1	0.200	1.34	NO	45.32	1.012	2.32e3	1.57e6	0.190	-5.1	0.739	db
2	200417R1_2	0.250	1.36	NO	45.34	1.012	2.86e3	1.63e6	0.225	-10.2	0.700	db
3	200417R1_3	1.00	1.20	NO	45.32	1.012	1.27e4	1.76e6	0.931	-6.9	0.726	db
4	200417R1_4	2.50	1.34	NO	45.34	1.012	2.87e4	1.58e6	2.34	-6.4	0.729	db
5	200417R1_5	50.0	1.25	NO	45.32	1.012	9.17e5	2.15e6	54.9	9.7	0.855	db
6	200417R1_6	400	1.24	NO	45.32	1.012	5.58e6	1.51e6	475	18.9	0.926	db

**Compound name: PCB-166**

Response Factor: 1.00785

RRF SD: 0.132622, Relative SD: 13.1589

Response type: Internal Std ( Ref 199 ), 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	200417R1_1	0.200	1.31	NO	45.80	0.993	3.46e3	1.84e6	0.187	-6.5	0.942	MM
2	200417R1_2	0.250	1.29	NO	45.81	0.993	4.08e3	1.89e6	0.215	-14.1	0.866	MM
3	200417R1_3	1.00	1.18	NO	45.80	0.993	1.92e4	2.04e6	0.931	-6.9	0.939	MM
4	200417R1_4	2.50	1.31	NO	45.82	0.993	4.37e4	1.82e6	2.39	-4.6	0.962	MM
5	200417R1_5	50.0	1.25	NO	45.80	0.993	1.42e6	2.54e6	55.6	11.3	1.12	MM
6	200417R1_6	400	1.25	NO	45.78	0.993	8.82e6	1.81e6	483	20.7	1.22	MM

**Compound name: PCB-159**

Response Factor: 1.10774

RRF SD: 0.124981, Relative SD: 11.2825

Response type: Internal Std ( Ref 199 ), 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	200417R1_1	0.200	1.14	NO	46.14	1.000	4.00e3	1.84e6	0.196	-1.9	1.09	MM
2	200417R1_2	0.250	1.28	NO	46.15	1.000	4.52e3	1.89e6	0.216	-13.5	0.958	MM

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**Compound name: PCB-159**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.25	NO	46.14	1.000	2.10e4	2.04e6	0.926	-7.4	1.03	MM
4	200417R1_4	2.50	1.27	NO	46.16	1.000	4.83e4	1.82e6	2.40	-4.0	1.06	MM
5	200417R1_5	50.0	1.25	NO	46.14	1.000	1.55e6	2.54e6	55.1	10.2	1.22	MM
6	200417R1_6	400	1.25	NO	46.14	1.001	9.36e6	1.81e6	466	16.6	1.29	MM

**Compound name: PCB-128/162**

Response Factor: 0.858773

RRF SD: 0.0806347, Relative SD: 9.38952

Response type: Internal Std ( Ref 199 ), 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	200417R1_1	0.400	1.25	NO	46.42	1.007	6.30e3	1.84e6	0.399	-0.2	0.857	MM
2	200417R1_2	0.500	1.25	NO	46.44	1.007	7.32e3	1.89e6	0.452	-9.6	0.777	MM
3	200417R1_3	2.00	1.26	NO	46.44	1.007	3.27e4	2.04e6	1.86	-7.0	0.799	MM
4	200417R1_4	5.00	1.26	NO	46.44	1.007	7.36e4	1.82e6	4.72	-5.6	0.811	MM
5	200417R1_5	100	1.24	NO	46.42	1.007	2.36e6	2.54e6	108	8.2	0.929	MM
6	200417R1_6	800	1.24	NO	46.42	1.007	1.42e7	1.81e6	914	14.2	0.981	MM

**Compound name: PCB-167**

Response Factor: 1.04367

RRF SD: 0.0978818, Relative SD: 9.37863

Response type: Internal Std ( Ref 200 ), 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	200417R1_1	0.200	1.20	NO	46.84	1.000	3.84e3	1.88e6	0.196	-2.0	1.02	bb
2	200417R1_2	0.250	1.22	NO	46.85	1.000	4.53e3	1.90e6	0.228	-8.7	0.953	bb
3	200417R1_3	1.00	1.25	NO	46.84	1.000	1.95e4	2.04e6	0.917	-8.3	0.958	bd
4	200417R1_4	2.50	1.25	NO	46.86	1.000	4.58e4	1.83e6	2.40	-4.1	1.00	bb
5	200417R1_5	50.0	1.25	NO	46.84	1.000	1.43e6	2.51e6	54.6	9.2	1.14	bb
6	200417R1_6	400	1.25	NO	46.82	1.000	8.42e6	1.77e6	455	13.8	1.19	bb

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**Compound name: PCB-156**

Response Factor: 1.08422

RRF SD: 0.105024, Relative SD: 9.68654

Response type: Internal Std ( Ref 201 ), 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	200417R1_1	0.200	1.38	NO	48.17	1.000	4.04e3	1.86e6	0.201	0.3	1.09	bd
2	200417R1_2	0.250	1.22	NO	48.16	1.000	4.38e3	1.82e6	0.223	-11.0	0.965	bd
3	200417R1_3	1.00	1.27	NO	48.17	1.000	1.96e4	1.91e6	0.946	-5.4	1.03	bd
4	200417R1_4	2.50	1.29	NO	48.17	1.000	4.36e4	1.72e6	2.34	-6.4	1.01	bb
5	200417R1_5	50.0	1.25	NO	48.15	1.000	1.41e6	2.42e6	53.8	7.6	1.17	bb
6	200417R1_6	400	1.25	NO	48.15	1.000	8.63e6	1.73e6	460	14.9	1.25	bd

**Compound name: PCB-157**

Response Factor: 0.976847

RRF SD: 0.0877024, Relative SD: 8.97811

Response type: Internal Std ( Ref 202 ), 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	200417R1_1	0.200	1.37	NO	48.43	1.000	3.52e3	1.88e6	0.192	-4.2	0.935	MM
2	200417R1_2	0.250	1.41	NO	48.44	1.000	4.23e3	1.86e6	0.232	-7.1	0.907	dd
3	200417R1_3	1.00	1.27	NO	48.43	1.000	1.81e4	1.97e6	0.937	-6.3	0.915	dd
4	200417R1_4	2.50	1.29	NO	48.45	1.000	4.14e4	1.78e6	2.38	-4.9	0.929	bd
5	200417R1_5	50.0	1.27	NO	48.43	1.000	1.30e6	2.46e6	54.3	8.5	1.06	bd
6	200417R1_6	400	1.26	NO	48.43	1.001	7.98e6	1.79e6	456	14.1	1.11	dd

**Compound name: PCB-169**

Response Factor: 1.10532

RRF SD: 0.0971356, Relative SD: 8.78803

Response type: Internal Std ( Ref 203 ), 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	200417R1_1	0.200	1.35	NO	50.69	1.000	3.61e3	1.71e6	0.191	-4.5	1.06	bb
2	200417R1_2	0.250	1.21	NO	50.70	1.000	4.56e3	1.72e6	0.239	-4.4	1.06	bb

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**Compound name: PCB-169**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.26	NO	50.69	1.000	1.89e4	1.83e6	0.931	-6.9	1.03	bb
4	200417R1_4	2.50	1.27	NO	50.70	1.000	4.30e4	1.66e6	2.34	-6.4	1.03	bb
5	200417R1_5	50.0	1.26	NO	50.69	1.000	1.39e6	2.31e6	54.4	8.8	1.20	bb
6	200417R1_6	400	1.25	NO	50.69	1.000	8.49e6	1.69e6	454	13.4	1.25	bb

**Compound name: PCB-188**

Response Factor: 1.26698

RRF SD: 0.108891, Relative SD: 8.59455

Response type: Internal Std ( Ref 204 ), 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	200417R1_1	0.200	1.08	NO	42.82	1.000	3.50e3	1.48e6	0.186	-6.9	1.18	bb
2	200417R1_2	0.250	1.18	NO	42.84	1.000	4.32e3	1.49e6	0.229	-8.5	1.16	bb
3	200417R1_3	1.00	1.01	NO	42.82	1.000	1.97e4	1.61e6	0.968	-3.2	1.23	bb
4	200417R1_4	2.50	1.02	NO	42.84	1.000	4.43e4	1.44e6	2.43	-2.7	1.23	bb
5	200417R1_5	50.0	1.06	NO	42.82	1.000	1.37e6	1.98e6	54.6	9.2	1.38	bb
6	200417R1_6	400	1.06	NO	42.80	1.000	8.36e6	1.47e6	448	12.1	1.42	bb

**Compound name: PCB-184**

Response Factor: 1.32526

RRF SD: 0.102496, Relative SD: 7.73405

Response type: Internal Std ( Ref 204 ), 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	200417R1_1	0.200	1.08	NO	43.28	1.011	3.45e3	1.48e6	0.175	-12.3	1.16	bb
2	200417R1_2	0.250	1.12	NO	43.29	1.011	4.88e3	1.49e6	0.247	-1.4	1.31	bb
3	200417R1_3	1.00	1.09	NO	43.28	1.011	2.11e4	1.61e6	0.990	-1.0	1.31	bb
4	200417R1_4	2.50	1.06	NO	43.30	1.011	4.68e4	1.44e6	2.45	-1.8	1.30	bb
5	200417R1_5	50.0	1.05	NO	43.28	1.011	1.44e6	1.98e6	55.0	10.0	1.46	bb
6	200417R1_6	400	1.06	NO	43.28	1.012	8.31e6	1.47e6	426	6.5	1.41	bb

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**Compound name: PCB-179**

Response Factor: 1.24995

RRF SD: 0.099091, Relative SD: 7.9276

Response type: Internal Std ( Ref 204 ), 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	200417R1_1	0.200	1.02	NO	44.07	1.030	3.44e3	1.48e6	0.186	-7.1	1.16	bb
2	200417R1_2	0.250	1.02	NO	44.09	1.030	4.23e3	1.49e6	0.227	-9.3	1.13	bb
3	200417R1_3	1.00	1.06	NO	44.07	1.030	1.99e4	1.61e6	0.990	-1.0	1.24	bb
4	200417R1_4	2.50	1.05	NO	44.09	1.030	4.44e4	1.44e6	2.47	-1.2	1.23	bb
5	200417R1_5	50.0	1.06	NO	44.07	1.030	1.36e6	1.98e6	55.0	9.9	1.37	bb
6	200417R1_6	400	1.05	NO	44.05	1.030	8.00e6	1.47e6	435	8.8	1.36	bb

**Compound name: PCB-176**

Response Factor: 1.22392

RRF SD: 0.11065, Relative SD: 9.04065

Response type: Internal Std ( Ref 204 ), 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	200417R1_1	0.200	1.00	NO	44.55	1.041	3.40e3	1.48e6	0.187	-6.4	1.15	bb
2	200417R1_2	0.250	1.10	NO	44.56	1.041	4.11e3	1.49e6	0.225	-10.0	1.10	bd
3	200417R1_3	1.00	1.01	NO	44.55	1.041	1.86e4	1.61e6	0.946	-5.4	1.16	bb
4	200417R1_4	2.50	1.07	NO	44.57	1.041	4.41e4	1.44e6	2.51	0.2	1.23	bb
5	200417R1_5	50.0	1.07	NO	44.55	1.041	1.32e6	1.98e6	54.7	9.5	1.34	bb
6	200417R1_6	400	1.07	NO	44.55	1.041	8.08e6	1.47e6	449	12.1	1.37	bb

**Compound name: PCB-186**

Response Factor: 1.30721

RRF SD: 0.116579, Relative SD: 8.91814

Response type: Internal Std ( Ref 204 ), 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	200417R1_1	0.200	1.11	NO	45.17	1.055	3.58e3	1.48e6	0.185	-7.6	1.21	bb
2	200417R1_2	0.250	1.10	NO	45.19	1.055	4.43e3	1.49e6	0.227	-9.1	1.19	bb

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**Compound name: PCB-186**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.05	NO	45.17	1.055	2.05e4	1.61e6	0.975	-2.5	1.28	bb
4	200417R1_4	2.50	1.02	NO	45.19	1.055	4.58e4	1.44e6	2.44	-2.4	1.28	bb
5	200417R1_5	50.0	1.06	NO	45.17	1.055	1.40e6	1.98e6	54.2	8.4	1.42	bb
6	200417R1_6	400	1.06	NO	45.15	1.055	8.71e6	1.47e6	453	13.2	1.48	bb

**Compound name: PCB-178**

Response Factor: 0.889398

RRF SD: 0.0852986, Relative SD: 9.5906

Response type: Internal Std ( Ref 204 ), 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	200417R1_1	0.200	1.00	NO	45.68	1.067	2.66e3	1.48e6	0.202	0.8	0.896	bb
2	200417R1_2	0.250	1.06	NO	45.70	1.067	2.85e3	1.49e6	0.215	-14.1	0.764	bb
3	200417R1_3	1.00	1.16	NO	45.68	1.067	1.33e4	1.61e6	0.932	-6.8	0.829	bb
4	200417R1_4	2.50	1.16	NO	45.70	1.067	3.18e4	1.44e6	2.48	-0.6	0.884	bb
5	200417R1_5	50.0	1.06	NO	45.68	1.067	9.74e5	1.98e6	55.4	10.8	0.985	bb
6	200417R1_6	400	1.06	NO	45.68	1.068	5.76e6	1.47e6	440	10.0	0.978	bb

**Compound name: PCB-175**

Response Factor: 0.885753

RRF SD: 0.0724585, Relative SD: 8.18044

Response type: Internal Std ( Ref 204 ), 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	200417R1_1	0.200	1.08	NO	46.04	1.076	2.57e3	1.48e6	0.196	-2.1	0.867	bd
2	200417R1_2	0.250	0.96	NO	46.06	1.076	3.04e3	1.49e6	0.230	-7.9	0.816	bd
3	200417R1_3	1.00	1.08	NO	46.04	1.076	1.35e4	1.61e6	0.948	-5.2	0.839	bd
4	200417R1_4	2.50	1.05	NO	46.06	1.076	3.02e4	1.44e6	2.37	-5.2	0.840	bd
5	200417R1_5	50.0	1.06	NO	46.04	1.076	9.55e5	1.98e6	54.5	9.0	0.966	bd
6	200417R1_6	400	1.06	NO	46.03	1.076	5.81e6	1.47e6	446	11.4	0.987	bd



Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: PCB-182/187**

Response Factor: 1.04121

RRF SD: 0.0924677, Relative SD: 8.88077

Response type: Internal Std ( Ref 204 ), 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	200417R1_1	0.400	1.14	NO	46.23	1.080	5.80e3	1.48e6	0.376	-6.0	0.978	db
2	200417R1_2	0.500	1.09	NO	46.23	1.080	7.20e3	1.49e6	0.463	-7.3	0.965	dd
3	200417R1_3	2.00	1.00	NO	46.22	1.080	3.18e4	1.61e6	1.90	-4.8	0.991	dd
4	200417R1_4	5.00	1.06	NO	46.23	1.080	7.16e4	1.44e6	4.78	-4.4	0.996	db
5	200417R1_5	100	1.07	NO	46.21	1.080	2.25e6	1.98e6	109	9.3	1.14	db
6	200417R1_6	800	1.06	NO	46.21	1.080	1.39e7	1.47e6	906	13.3	1.18	db

**Compound name: PCB-183**

Response Factor: 0.971945

RRF SD: 0.108185, Relative SD: 11.1308

Response type: Internal Std ( Ref 204 ), 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	200417R1_1	0.200	1.09	NO	46.56	1.088	2.70e3	1.48e6	0.187	-6.5	0.909	bb
2	200417R1_2	0.250	1.14	NO	46.55	1.087	3.10e3	1.49e6	0.214	-14.6	0.830	MM
3	200417R1_3	1.00	1.06	NO	46.56	1.088	1.51e4	1.61e6	0.966	-3.4	0.939	db
4	200417R1_4	2.50	1.10	NO	46.56	1.087	3.43e4	1.44e6	2.45	-1.8	0.954	bb
5	200417R1_5	50.0	1.06	NO	46.54	1.087	1.07e6	1.98e6	55.9	11.8	1.09	bb
6	200417R1_6	400	1.05	NO	46.54	1.088	6.55e6	1.47e6	458	14.5	1.11	bb

**Compound name: PCB-185**

Response Factor: 1.35097

RRF SD: 0.135857, Relative SD: 10.0563

Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	0.99	NO	47.22	0.955	2.52e3	9.57e5	0.195	-2.4	1.32	bb
2	200417R1_2	0.250	0.99	NO	47.23	0.955	2.86e3	9.55e5	0.222	-11.3	1.20	bb

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: PCB-185**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.05	NO	47.22	0.955	1.28e4	1.01e6	0.938	-6.2	1.27	bb
4	200417R1_4	2.50	1.05	NO	47.24	0.955	3.00e4	9.22e5	2.41	-3.7	1.30	bb
5	200417R1_5	50.0	1.05	NO	47.22	0.955	9.27e5	1.28e6	53.7	7.5	1.45	bb
6	200417R1_6	400	1.06	NO	47.20	0.954	5.72e6	9.10e5	465	16.2	1.57	bb

**Compound name: PCB-174**

Response Factor: 1.28387  
 RRF SD: 0.162173, Relative SD: 12.6316  
 Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	0.97	NO	47.58	0.962	2.49e3	9.57e5	0.203	1.3	1.30	bd
2	200417R1_2	0.250	1.11	NO	47.59	0.962	2.69e3	9.55e5	0.219	-12.2	1.13	bd
3	200417R1_3	1.00	1.00	NO	47.60	0.962	1.16e4	1.01e6	0.891	-10.9	1.14	bd
4	200417R1_4	2.50	1.04	NO	47.60	0.962	2.77e4	9.22e5	2.34	-6.3	1.20	bd
5	200417R1_5	50.0	1.06	NO	47.60	0.962	8.80e5	1.28e6	53.7	7.4	1.38	bd
6	200417R1_6	400	1.05	NO	47.58	0.962	5.65e6	9.10e5	483	20.8	1.55	bd

**Compound name: PCB-181**

Response Factor: 1.48086  
 RRF SD: 0.127774, Relative SD: 8.6284  
 Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	0.97	NO	47.69	0.964	2.74e3	9.57e5	0.193	-3.3	1.43	dd
2	200417R1_2	0.250	1.11	NO	47.71	0.964	3.17e3	9.55e5	0.224	-10.4	1.33	dd
3	200417R1_3	1.00	1.08	NO	47.69	0.964	1.47e4	1.01e6	0.979	-2.1	1.45	dd
4	200417R1_4	2.50	1.03	NO	47.71	0.964	3.24e4	9.22e5	2.38	-5.0	1.41	dd
5	200417R1_5	50.0	1.07	NO	47.69	0.964	1.02e6	1.28e6	54.1	8.3	1.60	dd
6	200417R1_6	400	1.07	NO	47.67	0.964	6.06e6	9.10e5	450	12.5	1.67	dd

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**Compound name: PCB-177**

Response Factor: 1.24259

RRF SD: 0.119998, Relative SD: 9.65712

Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	1.02	NO	47.86	0.968	2.29e3	9.57e5	0.193	-3.6	1.20	db
2	200417R1_2	0.250	1.18	NO	47.88	0.968	2.71e3	9.55e5	0.228	-8.7	1.13	MM
3	200417R1_3	1.00	1.02	NO	47.86	0.968	1.19e4	1.01e6	0.948	-5.2	1.18	db
4	200417R1_4	2.50	1.12	NO	47.88	0.968	2.70e4	9.22e5	2.36	-5.8	1.17	db
5	200417R1_5	50.0	1.05	NO	47.86	0.968	8.47e5	1.28e6	53.4	6.8	1.33	db
6	200417R1_6	400	1.05	NO	47.86	0.968	5.27e6	9.10e5	466	16.5	1.45	db

**Compound name: PCB-171**

Response Factor: 1.32943

RRF SD: 0.148893, Relative SD: 11.1998

Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	1.05	NO	48.17	0.974	2.53e3	9.57e5	0.199	-0.5	1.32	bb
2	200417R1_2	0.250	1.13	NO	48.18	0.974	2.77e3	9.55e5	0.218	-12.6	1.16	bb
3	200417R1_3	1.00	1.07	NO	48.17	0.974	1.26e4	1.01e6	0.939	-6.1	1.25	bd
4	200417R1_4	2.50	1.02	NO	48.19	0.974	2.85e4	9.22e5	2.32	-7.1	1.23	bd
5	200417R1_5	50.0	1.05	NO	48.17	0.974	9.25e5	1.28e6	54.5	9.0	1.45	bd
6	200417R1_6	400	1.06	NO	48.15	0.974	5.68e6	9.10e5	469	17.3	1.56	bb

**Compound name: PCB-173**

Response Factor: 1.15703

RRF SD: 0.104459, Relative SD: 9.0282

Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	1.10	NO	48.60	0.983	2.05e3	9.57e5	0.185	-7.4	1.07	bb
2	200417R1_2	0.250	1.14	NO	48.62	0.983	2.68e3	9.55e5	0.242	-3.1	1.12	MM

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**Compound name: PCB-173**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.08	NO	48.60	0.983	1.09e4	1.01e6	0.929	-7.1	1.07	db
4	200417R1_4	2.50	1.06	NO	48.62	0.983	2.56e4	9.22e5	2.40	-4.1	1.11	db
5	200417R1_5	50.0	1.06	NO	48.60	0.983	7.86e5	1.28e6	53.2	6.4	1.23	bb
6	200417R1_6	400	1.05	NO	48.58	0.982	4.86e6	9.10e5	461	15.3	1.33	bb

**Compound name: PCB-172**

Response Factor: 1.34364

RRF SD: 0.157316, Relative SD: 11.7082

Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	1.02	NO	49.08	0.992	2.33e3	9.57e5	0.181	-9.4	1.22	bd
2	200417R1_2	0.250	1.13	NO	49.07	0.992	3.12e3	9.55e5	0.243	-2.7	1.31	dd
3	200417R1_3	1.00	1.13	NO	49.08	0.992	1.22e4	1.01e6	0.899	-10.1	1.21	dd
4	200417R1_4	2.50	1.01	NO	49.08	0.992	2.91e4	9.22e5	2.35	-6.0	1.26	dd
5	200417R1_5	50.0	1.06	NO	49.06	0.992	9.33e5	1.28e6	54.4	8.8	1.46	dd
6	200417R1_6	400	1.05	NO	49.06	0.992	5.84e6	9.10e5	477	19.4	1.60	dd

**Compound name: PCB-192**

Response Factor: 1.66681

RRF SD: 0.230555, Relative SD: 13.8321

Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	0.98	NO	49.26	0.996	3.22e3	9.57e5	0.202	0.9	1.68	dd
2	200417R1_2	0.250	1.20	NO	49.28	0.996	3.29e3	9.55e5	0.207	-17.2	1.38	MM
3	200417R1_3	1.00	1.02	NO	49.26	0.996	1.52e4	1.01e6	0.902	-9.8	1.50	dd
4	200417R1_4	2.50	1.08	NO	49.28	0.996	3.67e4	9.22e5	2.39	-4.5	1.59	dd
5	200417R1_5	50.0	1.06	NO	49.26	0.996	1.16e6	1.28e6	54.7	9.3	1.82	dd
6	200417R1_6	400	1.06	NO	49.24	0.996	7.36e6	9.10e5	485	21.3	2.02	dd

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**Compound name: PCB-180**

Response Factor: 1.37968

RRF SD: 0.161837, Relative SD: 11.73

Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	1.01	NO	49.47	1.000	2.54e3	9.57e5	0.192	-3.8	1.33	dd
2	200417R1_2	0.250	1.13	NO	49.49	1.000	2.79e3	9.55e5	0.211	-15.4	1.17	MM
3	200417R1_3	1.00	1.06	NO	49.49	1.001	1.32e4	1.01e6	0.946	-5.4	1.30	dd
4	200417R1_4	2.50	1.07	NO	49.49	1.000	3.08e4	9.22e5	2.42	-3.1	1.34	dd
5	200417R1_5	50.0	1.05	NO	49.47	1.000	9.81e5	1.28e6	55.7	11.4	1.54	dd
6	200417R1_6	400	1.05	NO	49.47	1.000	5.84e6	9.10e5	465	16.3	1.60	dd

**Compound name: PCB-193**

Response Factor: 1.55814

RRF SD: 0.176634, Relative SD: 11.3363

Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	0.98	NO	49.68	1.005	2.66e3	9.57e5	0.179	-10.6	1.39	db
2	200417R1_2	0.250	1.19	NO	49.69	1.005	3.61e3	9.55e5	0.243	-2.8	1.51	dd
3	200417R1_3	1.00	1.04	NO	49.68	1.005	1.43e4	1.01e6	0.910	-9.0	1.42	dd
4	200417R1_4	2.50	1.06	NO	49.70	1.005	3.41e4	9.22e5	2.38	-4.9	1.48	db
5	200417R1_5	50.0	1.06	NO	49.68	1.005	1.08e6	1.28e6	54.5	9.1	1.70	db
6	200417R1_6	400	1.06	NO	49.68	1.005	6.71e6	9.10e5	473	18.3	1.84	db

**Compound name: PCB-191**

Response Factor: 1.60471

RRF SD: 0.160639, Relative SD: 10.0105

Response type: Internal Std ( Ref 205 ), 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	200417R1_1	0.200	1.02	NO	49.95	1.010	2.97e3	9.57e5	0.194	-3.2	1.55	bb
2	200417R1_2	0.250	1.02	NO	49.96	1.010	3.71e3	9.55e5	0.242	-3.0	1.56	db

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**Compound name: PCB-191**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.01	NO	49.95	1.010	1.46e4	1.01e6	0.900	-10.0	1.44	db
4	200417R1_4	2.50	1.05	NO	49.97	1.010	3.42e4	9.22e5	2.31	-7.6	1.48	bb
5	200417R1_5	50.0	1.06	NO	49.95	1.010	1.10e6	1.28e6	53.8	7.6	1.73	bb
6	200417R1_6	400	1.06	NO	49.95	1.010	6.80e6	9.10e5	465	16.3	1.87	bb

**Compound name: PCB-170**

Response Factor: 1.41425

RRF SD: 0.119235, Relative SD: 8.431

Response type: Internal Std ( Ref 206 ), 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	200417R1_1	0.200	1.03	NO	51.14	1.000	2.22e3	8.14e5	0.193	-3.6	1.36	bd
2	200417R1_2	0.250	1.00	NO	51.15	1.001	2.85e3	8.23e5	0.245	-2.1	1.38	bd
3	200417R1_3	1.00	1.08	NO	51.14	1.000	1.12e4	8.75e5	0.902	-9.8	1.28	bd
4	200417R1_4	2.50	1.05	NO	51.16	1.001	2.69e4	8.00e5	2.38	-4.7	1.35	dd
5	200417R1_5	50.0	1.06	NO	51.14	1.000	8.22e5	1.08e6	53.6	7.2	1.52	bd
6	200417R1_6	400	1.06	NO	51.12	1.000	4.93e6	7.71e5	452	13.0	1.60	bd

**Compound name: PCB-190**

Response Factor: 1.7918

RRF SD: 0.210629, Relative SD: 11.7552

Response type: Internal Std ( Ref 206 ), 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	200417R1_1	0.200	0.98	NO	51.35	1.004	2.74e3	8.14e5	0.188	-6.1	1.68	db
2	200417R1_2	0.250	1.08	NO	51.34	1.004	3.49e3	8.23e5	0.237	-5.3	1.70	db
3	200417R1_3	1.00	1.08	NO	51.35	1.004	1.43e4	8.75e5	0.911	-8.9	1.63	db
4	200417R1_4	2.50	1.08	NO	51.37	1.005	3.28e4	8.00e5	2.29	-8.3	1.64	dd
5	200417R1_5	50.0	1.05	NO	51.35	1.004	1.06e6	1.08e6	54.3	8.7	1.95	db
6	200417R1_6	400	1.05	NO	51.33	1.004	6.63e6	7.71e5	480	20.0	2.15	db

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**Compound name: PCB-189**

Response Factor: 1.46514

RRF SD: 0.122281, Relative SD: 8.34604

Response type: Internal Std ( Ref 207 ), 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	200417R1_1	0.200	1.07	NO	52.92	1.000	2.90e3	1.03e6	0.192	-3.8	1.41	bb
2	200417R1_2	0.250	1.04	NO	52.93	1.000	4.09e3	1.14e6	0.244	-2.2	1.43	bb
3	200417R1_3	1.00	1.03	NO	52.92	1.000	1.68e4	1.23e6	0.935	-6.5	1.37	bb
4	200417R1_4	2.50	1.10	NO	52.92	1.000	3.77e4	1.12e6	2.30	-8.0	1.35	bd
5	200417R1_5	50.0	1.06	NO	52.92	1.000	1.18e6	1.50e6	53.9	7.8	1.58	bb
6	200417R1_6	400	1.06	NO	52.90	1.000	6.96e6	1.05e6	451	12.7	1.65	bb

**Compound name: PCB-202**

Response Factor: 1.09022

RRF SD: 0.125927, Relative SD: 11.5506

Response type: Internal Std ( Ref 208 ), 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	200417R1_1	0.200	0.88	NO	48.39	1.001	2.33e3	1.11e6	0.193	-3.6	1.05	MM
2	200417R1_2	0.250	0.91	NO	48.39	1.000	2.74e3	1.11e6	0.226	-9.5	0.987	bb
3	200417R1_3	1.00	1.02	NO	48.37	1.000	1.21e4	1.20e6	0.929	-7.1	1.01	bb
4	200417R1_4	2.50	0.95	NO	48.39	1.000	2.71e4	1.09e6	2.28	-8.8	0.994	bb
5	200417R1_5	50.0	0.92	NO	48.37	1.000	8.90e5	1.46e6	55.9	11.9	1.22	bb
6	200417R1_6	400	0.92	NO	48.37	1.000	5.38e6	1.05e6	469	17.1	1.28	bb

**Compound name: PCB-201**

Response Factor: 0.946764

RRF SD: 0.112772, Relative SD: 11.9113

Response type: Internal Std ( Ref 208 ), 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	200417R1_1	0.200	0.98	NO	48.87	1.011	2.09e3	1.11e6	0.199	-0.5	0.942	bd
2	200417R1_2	0.250	0.86	NO	48.88	1.011	2.31e3	1.11e6	0.219	-12.3	0.830	dd

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**Compound name: PCB-201**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	0.90	NO	48.89	1.011	1.02e4	1.20e6	0.896	-10.4	0.849	bd
4	200417R1_4	2.50	0.87	NO	48.89	1.011	2.46e4	1.09e6	2.38	-4.7	0.902	bd
5	200417R1_5	50.0	0.92	NO	48.87	1.011	7.56e5	1.46e6	54.7	9.4	1.04	bd
6	200417R1_6	400	0.92	NO	48.87	1.011	4.72e6	1.05e6	474	18.4	1.12	bd

**Compound name: PCB-204**

Response Factor: 1.03155  
 RRF SD: 0.133567, Relative SD: 12.9482  
 Response type: Internal Std ( Ref 208 ), 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	200417R1_1	0.200	0.93	NO	49.04	1.014	2.13e3	1.11e6	0.187	-6.5	0.964	db
2	200417R1_2	0.250	0.83	NO	49.05	1.014	2.71e3	1.11e6	0.237	-5.4	0.976	db
3	200417R1_3	1.00	0.96	NO	49.04	1.014	1.08e4	1.20e6	0.870	-13.0	0.898	db
4	200417R1_4	2.50	0.95	NO	49.06	1.014	2.64e4	1.09e6	2.34	-6.2	0.968	db
5	200417R1_5	50.0	0.94	NO	49.04	1.014	8.23e5	1.46e6	54.7	9.4	1.13	db
6	200417R1_6	400	0.92	NO	49.02	1.014	5.29e6	1.05e6	487	21.7	1.26	db

**Compound name: PCB-197**

Response Factor: 1.02431  
 RRF SD: 0.134625, Relative SD: 13.143  
 Response type: Internal Std ( Ref 208 ), 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	200417R1_1	0.200	0.99	NO	49.34	1.020	2.21e3	1.11e6	0.195	-2.5	0.999	bb
2	200417R1_2	0.250	0.76	NO	49.35	1.020	2.61e3	1.11e6	0.229	-8.3	0.939	MM
3	200417R1_3	1.00	0.94	NO	49.34	1.020	1.08e4	1.20e6	0.879	-12.1	0.900	bb
4	200417R1_4	2.50	0.95	NO	49.36	1.020	2.55e4	1.09e6	2.28	-8.6	0.936	bb
5	200417R1_5	50.0	0.92	NO	49.34	1.020	8.21e5	1.46e6	55.0	9.9	1.13	bb
6	200417R1_6	400	0.92	NO	49.34	1.020	5.25e6	1.05e6	487	21.6	1.25	bb



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**Compound name: PCB-200**  
 Response Factor: 0.976215  
 RRF SD: 0.109862, Relative SD: 11.2539  
 Response type: Internal Std ( Ref 208 ), 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	200417R1_1	0.200	0.86	NO	50.27	1.040	2.01e3	1.11e6	0.186	-7.1	0.907	bb
2	200417R1_2	0.250	1.00	NO	50.28	1.040	2.48e3	1.11e6	0.228	-8.8	0.890	MM
3	200417R1_3	1.00	0.96	NO	50.27	1.040	1.12e4	1.20e6	0.955	-4.5	0.933	bb
4	200417R1_4	2.50	0.94	NO	50.29	1.040	2.45e4	1.09e6	2.31	-7.7	0.901	bb
5	200417R1_5	50.0	0.92	NO	50.27	1.040	7.85e5	1.46e6	55.1	10.2	1.08	bb
6	200417R1_6	400	0.92	NO	50.27	1.040	4.85e6	1.05e6	472	17.9	1.15	bb

**Compound name: PCB-198**  
 Response Factor: 0.752297  
 RRF SD: 0.0787132, Relative SD: 10.4631  
 Response type: Internal Std ( Ref 208 ), 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	200417R1_1	0.200	0.99	NO	51.86	1.072	1.67e3	1.11e6	0.201	0.5	0.756	bd
2	200417R1_2	0.250	1.00	NO	51.85	1.072	2.14e3	1.11e6	0.256	2.3	0.770	dd
3	200417R1_3	1.00	0.95	NO	51.86	1.072	7.95e3	1.20e6	0.882	-11.8	0.664	bd
4	200417R1_4	2.50	0.88	NO	51.88	1.072	1.83e4	1.09e6	2.23	-10.7	0.672	bd
5	200417R1_5	50.0	0.92	NO	51.86	1.072	5.64e5	1.46e6	51.4	2.8	0.774	bd
6	200417R1_6	400	0.93	NO	51.86	1.072	3.70e6	1.05e6	467	16.8	0.878	bd

**Compound name: PCB-199**  
 Response Factor: 0.732096  
 RRF SD: 0.0869084, Relative SD: 11.8712  
 Response type: Internal Std ( Ref 208 ), 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	200417R1_1	0.200	0.77	NO	51.99	1.075	1.51e3	1.11e6	0.187	-6.6	0.684	db
2	200417R1_2	0.250	0.78	NO	52.01	1.075	1.97e3	1.11e6	0.241	-3.4	0.707	db

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**Compound name: PCB-199**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	0.90	NO	51.99	1.075	7.80e3	1.20e6	0.890	-11.0	0.651	db
4	200417R1_4	2.50	0.96	NO	52.01	1.075	1.84e4	1.09e6	2.31	-7.7	0.676	db
5	200417R1_5	50.0	0.94	NO	51.99	1.075	5.82e5	1.46e6	54.5	9.1	0.798	db
6	200417R1_6	400	0.92	NO	51.99	1.075	3.69e6	1.05e6	479	19.7	0.876	db

**Compound name: PCB-196/203**

Response Factor: 0.824472

RRF SD: 0.111862, Relative SD: 13.5677

Response type: Internal Std ( Ref 208 ), 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	200417R1_1	0.400	0.89	NO	52.31	1.082	3.22e3	1.11e6	0.353	-11.6	0.728	bb
2	200417R1_2	0.500	0.90	NO	52.31	1.082	4.53e3	1.11e6	0.494	-1.2	0.814	bb
3	200417R1_3	2.00	0.94	NO	52.31	1.082	1.71e4	1.20e6	1.73	-13.4	0.714	bb
4	200417R1_4	5.00	0.90	NO	52.31	1.082	4.23e4	1.09e6	4.71	-5.8	0.777	bb
5	200417R1_5	100	0.93	NO	52.30	1.082	1.33e6	1.46e6	111	10.6	0.912	bb
6	200417R1_6	800	0.92	NO	52.30	1.082	8.44e6	1.05e6	972	21.4	1.00	bb

**Compound name: PCB-195**

Response Factor: 0.764726

RRF SD: 0.0982966, Relative SD: 12.8538

Response type: Internal Std ( Ref 209 ), 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	200417R1_1	0.200	1.00	NO	53.63	0.983	1.63e3	1.08e6	0.197	-1.3	0.755	MM
2	200417R1_2	0.250	0.91	NO	53.64	0.983	1.99e3	1.12e6	0.232	-7.1	0.711	bb
3	200417R1_3	1.00	0.85	NO	53.63	0.983	8.95e3	1.34e6	0.876	-12.4	0.670	bb
4	200417R1_4	2.50	0.86	NO	53.64	0.983	2.04e4	1.19e6	2.24	-10.2	0.687	bd
5	200417R1_5	50.0	0.87	NO	53.63	0.983	6.72e5	1.58e6	55.6	11.2	0.850	bd
6	200417R1_6	400	0.87	NO	53.63	0.983	4.17e6	1.14e6	479	19.8	0.916	bd

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**Compound name: PCB-194**

Response Factor: 0.966988

RRF SD: 0.0921143, Relative SD: 9.52589

Response type: Internal Std ( Ref 209 ), 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	200417R1_1	0.200	0.98	NO	54.57	1.000	2.22e3	1.08e6	0.213	6.3	1.03	MM
2	200417R1_2	0.250	0.87	NO	54.58	1.000	2.59e3	1.12e6	0.240	-4.1	0.927	bb
3	200417R1_3	1.00	0.84	NO	54.57	1.000	1.13e4	1.34e6	0.873	-12.7	0.844	bb
4	200417R1_4	2.50	0.88	NO	54.58	1.000	2.65e4	1.19e6	2.31	-7.5	0.895	bb
5	200417R1_5	50.0	0.86	NO	54.56	1.000	8.11e5	1.58e6	53.0	6.0	1.03	bb
6	200417R1_6	400	0.87	NO	54.57	1.000	4.92e6	1.14e6	448	11.9	1.08	bb

**Compound name: PCB-205**

Response Factor: 1.11011

RRF SD: 0.101493, Relative SD: 9.14263

Response type: Internal Std ( Ref 209 ), 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	200417R1_1	0.200	0.80	NO	54.86	1.006	2.40e3	1.08e6	0.200	-0.1	1.11	MM
2	200417R1_2	0.250	0.96	NO	54.86	1.005	2.93e3	1.12e6	0.236	-5.6	1.05	MM
3	200417R1_3	1.00	0.82	NO	54.84	1.005	1.34e4	1.34e6	0.903	-9.7	1.00	bb
4	200417R1_4	2.50	0.87	NO	54.86	1.005	3.08e4	1.19e6	2.34	-6.4	1.04	bb
5	200417R1_5	50.0	0.87	NO	54.84	1.005	9.52e5	1.58e6	54.2	8.5	1.20	bb
6	200417R1_6	400	0.87	NO	54.84	1.005	5.72e6	1.14e6	454	13.4	1.26	bb

**Compound name: PCB-208**

Response Factor: 0.901073

RRF SD: 0.0807009, Relative SD: 8.95609

Response type: Internal Std ( Ref 210 ), 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	200417R1_1	0.200	1.38	NO	53.79	1.000	2.61e3	1.52e6	0.191	-4.7	0.859	bb
2	200417R1_2	0.250	1.44	NO	53.80	1.000	3.25e3	1.58e6	0.229	-8.5	0.824	bb

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**Compound name: PCB-208**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	1.00	1.33	NO	53.79	1.000	1.41e4	1.66e6	0.940	-6.0	0.847	bb
4	200417R1_4	2.50	1.38	NO	53.81	1.000	3.29e4	1.50e6	2.43	-2.9	0.875	bb
5	200417R1_5	50.0	1.35	NO	53.79	1.000	9.96e5	2.05e6	54.0	8.0	0.974	bb
6	200417R1_6	400	1.35	NO	53.79	1.000	5.92e6	1.44e6	456	14.1	1.03	bb

**Compound name: PCB-207**

Response Factor: 0.840523

RRF SD: 0.096078, Relative SD: 11.4307

Response type: Internal Std ( Ref 210 ), 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	200417R1_1	0.200	1.25	NO	54.14	1.007	2.37e3	1.52e6	0.185	-7.4	0.779	bb
2	200417R1_2	0.250	1.33	NO	54.14	1.007	2.98e3	1.58e6	0.225	-9.9	0.758	bb
3	200417R1_3	1.00	1.41	NO	54.13	1.007	1.31e4	1.66e6	0.940	-6.0	0.790	bb
4	200417R1_4	2.50	1.33	NO	54.14	1.007	3.01e4	1.50e6	2.38	-4.7	0.801	bb
5	200417R1_5	50.0	1.34	NO	54.13	1.007	9.37e5	2.05e6	54.4	8.9	0.915	bb
6	200417R1_6	400	1.34	NO	54.13	1.007	5.76e6	1.44e6	476	19.1	1.00	bb

**Compound name: PCB-206**

Response Factor: 0.957932

RRF SD: 0.0815924, Relative SD: 8.51755

Response type: Internal Std ( Ref 211 ), 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	200417R1_1	0.200	1.32	NO	56.10	1.000	1.82e3	9.65e5	0.197	-1.6	0.942	bb
2	200417R1_2	0.250	1.39	NO	56.10	1.000	2.42e3	1.08e6	0.233	-6.6	0.894	bb
3	200417R1_3	1.00	1.27	NO	56.10	1.000	1.05e4	1.17e6	0.937	-6.3	0.898	bd
4	200417R1_4	2.50	1.38	NO	56.10	1.000	2.32e4	1.03e6	2.34	-6.5	0.895	bb
5	200417R1_5	50.0	1.34	NO	56.10	1.000	7.32e5	1.41e6	54.1	8.2	1.04	bb
6	200417R1_6	400	1.35	NO	56.10	1.000	4.24e6	9.80e5	452	12.9	1.08	bb

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**Compound name: PCB-209**

Response Factor: 0.955781

RRF SD: 0.0835402, Relative SD: 8.74052

Response type: Internal Std ( Ref 212 ), 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	200417R1_1	0.200	1.13	NO	57.33	1.000	1.82e3	9.73e5	0.195	-2.4	0.933	bb
2	200417R1_2	0.250	1.26	NO	57.34	1.000	2.32e3	9.82e5	0.247	-1.2	0.944	bb
3	200417R1_3	1.00	1.17	NO	57.35	1.000	8.97e3	1.02e6	0.922	-7.8	0.882	bb
4	200417R1_4	2.50	1.21	NO	57.35	1.000	2.01e4	9.26e5	2.27	-9.2	0.868	bb
5	200417R1_5	50.0	1.19	NO	57.33	1.000	6.32e5	1.23e6	53.7	7.3	1.03	bb
6	200417R1_6	400	1.19	NO	57.33	1.000	3.77e6	8.70e5	453	13.3	1.08	bb

**Compound name: 13C-PCB-1**

Response Factor: 0.999034

RRF SD: 0.064868, Relative SD: 6.49307

Response type: Internal Std ( Ref 213 ), 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	200417R1_1	100	3.24	NO	15.51	0.609	4.35e6	4.19e6	104	3.9	1.04	bb
2	200417R1_2	100	3.30	NO	15.51	0.609	4.32e6	4.18e6	103	3.3	1.03	bd
3	200417R1_3	100	3.26	NO	15.51	0.609	4.74e6	4.59e6	103	3.4	1.03	bb
4	200417R1_4	100	3.27	NO	15.56	0.610	4.28e6	4.11e6	104	4.2	1.04	bb
5	200417R1_5	100	3.30	NO	15.47	0.608	2.88e6	3.29e6	87.8	-12.2	0.877	bd
6	200417R1_6	100	3.28	NO	15.46	0.608	3.78e6	3.88e6	97.5	-2.5	0.974	bb

**Compound name: 13C-PCB-3**

Response Factor: 1.0265

RRF SD: 0.0708557, Relative SD: 6.90267

Response type: Internal Std ( Ref 213 ), 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	200417R1_1	100	3.27	NO	18.14	0.712	4.45e6	4.19e6	103	3.4	1.06	bb
2	200417R1_2	100	3.29	NO	18.15	0.712	4.48e6	4.18e6	104	4.4	1.07	bd

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**Compound name: 13C-PCB-3**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	3.29	NO	18.14	0.713	4.91e6	4.59e6	104	4.1	1.07	bb
4	200417R1_4	100	3.31	NO	18.20	0.714	4.41e6	4.11e6	105	4.5	1.07	bb
5	200417R1_5	100	3.26	NO	18.11	0.712	2.95e6	3.29e6	87.5	-12.5	0.898	bd
6	200417R1_6	100	3.29	NO	18.10	0.712	3.83e6	3.88e6	96.1	-3.9	0.987	bb

**Compound name: 13C-PCB-4**

Response Factor: 0.649783  
 RRF SD: 0.0352488, Relative SD: 5.42469  
 Response type: Internal Std ( Ref 213 ), 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	200417R1_1	100	1.57	NO	19.49	0.766	2.80e6	4.19e6	103	2.7	0.667	bb
2	200417R1_2	100	1.58	NO	19.50	0.766	2.82e6	4.18e6	104	3.8	0.674	bb
3	200417R1_3	100	1.58	NO	19.49	0.766	3.06e6	4.59e6	103	2.7	0.667	bb
4	200417R1_4	100	1.58	NO	19.55	0.766	2.76e6	4.11e6	103	3.5	0.672	bb
5	200417R1_5	100	1.57	NO	19.45	0.765	1.92e6	3.29e6	90.0	-10.0	0.585	bb
6	200417R1_6	100	1.58	NO	19.45	0.765	2.46e6	3.88e6	97.3	-2.7	0.633	bb

**Compound name: 13C-PCB-9**

Response Factor: 0.995845  
 RRF SD: 0.0323726, Relative SD: 3.25076  
 Response type: Internal Std ( Ref 213 ), 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	200417R1_1	100	1.57	NO	21.31	0.837	4.28e6	4.19e6	102	2.4	1.02	bb
2	200417R1_2	100	1.55	NO	21.32	0.837	4.27e6	4.18e6	103	2.6	1.02	bb
3	200417R1_3	100	1.56	NO	21.31	0.837	4.62e6	4.59e6	101	1.1	1.01	bb
4	200417R1_4	100	1.55	NO	21.36	0.837	4.17e6	4.11e6	102	1.8	1.01	bb
5	200417R1_5	100	1.56	NO	21.28	0.837	3.10e6	3.29e6	94.6	-5.4	0.942	bb
6	200417R1_6	100	1.56	NO	21.27	0.836	3.77e6	3.88e6	97.5	-2.5	0.971	bb

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: 13C-PCB-11**

Response Factor: 0.958768

RRF SD: 0.0122269, Relative SD: 1.27527

Response type: Internal Std ( Ref 213 ), 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	200417R1_1	100	1.55	NO	24.74	0.972	4.04e6	4.19e6	100	0.4	0.963	bb
2	200417R1_2	100	1.54	NO	24.76	0.972	4.01e6	4.18e6	100	-0.0	0.959	bb
3	200417R1_3	100	1.55	NO	24.74	0.972	4.40e6	4.59e6	99.8	-0.2	0.957	bb
4	200417R1_4	100	1.57	NO	24.78	0.972	3.93e6	4.11e6	99.7	-0.3	0.956	bb
5	200417R1_5	100	1.56	NO	24.71	0.972	3.22e6	3.29e6	102	2.0	0.978	bb
6	200417R1_6	100	1.55	NO	24.70	0.972	3.65e6	3.88e6	98.1	-1.9	0.940	bb

**Compound name: 13C-PCB-19**

Response Factor: 0.528743

RRF SD: 0.00933169, Relative SD: 1.76488

Response type: Internal Std ( Ref 213 ), 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	200417R1_1	100	1.08	NO	23.70	0.931	2.24e6	4.19e6	101	0.8	0.533	bb
2	200417R1_2	100	1.08	NO	23.72	0.931	2.23e6	4.18e6	101	0.8	0.533	bb
3	200417R1_3	100	1.07	NO	23.70	0.931	2.44e6	4.59e6	101	0.6	0.532	bb
4	200417R1_4	100	1.07	NO	23.75	0.931	2.20e6	4.11e6	101	1.1	0.535	bb
5	200417R1_5	100	1.09	NO	23.67	0.931	1.74e6	3.29e6	100	0.3	0.530	bb
6	200417R1_6	100	1.07	NO	23.66	0.931	1.98e6	3.88e6	96.4	-3.6	0.510	bb

**Compound name: 13C-PCB-32**

Response Factor: 0.759968

RRF SD: 0.0321758, Relative SD: 4.23383

Response type: Internal Std ( Ref 213 ), 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	200417R1_1	100	1.08	NO	26.68	1.048	3.12e6	4.19e6	97.8	-2.2	0.744	bb
2	200417R1_2	100	1.09	NO	26.70	1.048	3.09e6	4.18e6	97.3	-2.7	0.739	bb

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**Compound name: 13C-PCB-32**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	1.08	NO	26.68	1.048	3.43e6	4.59e6	98.2	-1.8	0.746	bb
4	200417R1_4	100	1.09	NO	26.72	1.048	3.08e6	4.11e6	98.6	-1.4	0.749	bb
5	200417R1_5	100	1.08	NO	26.65	1.048	2.71e6	3.29e6	108	8.5	0.825	bb
6	200417R1_6	100	1.08	NO	26.64	1.048	2.94e6	3.88e6	99.6	-0.4	0.757	bb

**Compound name: 13C-PCB-28**

Response Factor: 1.09668

RRF SD: 0.0344885, Relative SD: 3.14482

Response type: Internal Std ( Ref 214 ), 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	200417R1_1	100	1.02	NO	28.68	1.004	3.55e6	3.24e6	99.9	-0.1	1.10	db
2	200417R1_2	100	1.02	NO	28.70	1.004	3.55e6	3.19e6	101	1.3	1.11	db
3	200417R1_3	100	1.03	NO	28.68	1.004	3.91e6	3.52e6	101	1.5	1.11	db
4	200417R1_4	100	1.02	NO	28.72	1.004	3.54e6	3.17e6	102	1.9	1.12	db
5	200417R1_5	100	1.02	NO	28.66	1.004	3.23e6	3.14e6	93.7	-6.3	1.03	db
6	200417R1_6	100	1.02	NO	28.65	1.004	3.28e6	2.94e6	102	1.7	1.12	db

**Compound name: 13C-PCB-37**

Response Factor: 0.983025

RRF SD: 0.0370346, Relative SD: 3.76741

Response type: Internal Std ( Ref 214 ), 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	200417R1_1	100	1.03	NO	32.65	1.143	3.09e6	3.24e6	97.0	-3.0	0.954	bb
2	200417R1_2	100	1.02	NO	32.66	1.143	3.11e6	3.19e6	99.0	-1.0	0.973	bb
3	200417R1_3	100	1.03	NO	32.65	1.143	3.39e6	3.52e6	98.2	-1.8	0.965	bb
4	200417R1_4	100	1.02	NO	32.68	1.142	3.06e6	3.17e6	98.2	-1.8	0.965	bb
5	200417R1_5	100	1.02	NO	32.63	1.143	3.32e6	3.14e6	107	7.4	1.06	bb
6	200417R1_6	100	1.02	NO	32.61	1.143	2.90e6	2.94e6	100	0.2	0.985	bb



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**Compound name: 13C-PCB-54**

Response Factor: 1.06959

RRF SD: 0.120406, Relative SD: 11.2571

Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.80	NO	27.53	0.753	2.90e6	2.65e6	102	2.3	1.09	bb
2	200417R1_2	100	0.79	NO	27.54	0.754	2.95e6	2.55e6	108	8.2	1.16	bb
3	200417R1_3	100	0.80	NO	27.53	0.753	3.18e6	2.81e6	106	6.1	1.13	bb
4	200417R1_4	100	0.79	NO	27.57	0.754	2.86e6	2.54e6	105	5.4	1.13	bb
5	200417R1_5	100	0.80	NO	27.51	0.753	2.59e6	3.12e6	77.8	-22.2	0.832	bb
6	200417R1_6	100	0.80	NO	27.49	0.753	2.68e6	2.50e6	100	0.2	1.07	bb

**Compound name: 13C-PCB-52**

Response Factor: 0.854373

RRF SD: 0.0531704, Relative SD: 6.22333

Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.80	NO	31.16	0.853	2.26e6	2.65e6	99.9	-0.1	0.853	bb
2	200417R1_2	100	0.79	NO	31.17	0.853	2.24e6	2.55e6	103	3.1	0.881	bb
3	200417R1_3	100	0.79	NO	31.16	0.853	2.52e6	2.81e6	105	5.3	0.899	bb
4	200417R1_4	100	0.79	NO	31.19	0.853	2.27e6	2.54e6	105	4.9	0.897	bd
5	200417R1_5	100	0.80	NO	31.14	0.852	2.36e6	3.12e6	88.7	-11.3	0.758	bb
6	200417R1_6	100	0.80	NO	31.12	0.852	2.10e6	2.50e6	98.1	-1.9	0.838	bb

**Compound name: 13C-PCB-47**

Response Factor: 0.905343

RRF SD: 0.0453078, Relative SD: 5.00449

Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.80	NO	31.68	0.867	2.38e6	2.65e6	99.1	-0.9	0.897	bb
2	200417R1_2	100	0.79	NO	31.69	0.867	2.37e6	2.55e6	103	2.7	0.930	bb

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**Compound name: 13C-PCB-47**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	0.79	NO	31.68	0.867	2.64e6	2.81e6	104	4.1	0.942	bb
4	200417R1_4	100	0.79	NO	31.70	0.867	2.37e6	2.54e6	103	3.4	0.936	bb
5	200417R1_5	100	0.79	NO	31.66	0.867	2.56e6	3.12e6	90.6	-9.4	0.820	bb
6	200417R1_6	100	0.79	NO	31.64	0.867	2.27e6	2.50e6	100	0.1	0.907	bb

**Compound name: 13C-PCB-70**

Response Factor: 1.0064  
 RRF SD: 0.0115303, Relative SD: 1.1457  
 Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.80	NO	35.27	0.965	2.63e6	2.65e6	98.4	-1.6	0.990	bb
2	200417R1_2	100	0.81	NO	35.28	0.965	2.60e6	2.55e6	102	1.6	1.02	bb
3	200417R1_3	100	0.79	NO	35.27	0.965	2.84e6	2.81e6	100	0.5	1.01	bb
4	200417R1_4	100	0.80	NO	35.31	0.965	2.56e6	2.54e6	100	0.5	1.01	bb
5	200417R1_5	100	0.80	NO	35.27	0.965	3.11e6	3.12e6	99.1	-0.9	0.998	bb
6	200417R1_6	100	0.81	NO	35.25	0.965	2.52e6	2.50e6	99.9	-0.1	1.01	bb

**Compound name: 13C-PCB-80**

Response Factor: 1.04436  
 RRF SD: 0.0169356, Relative SD: 1.62163  
 Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.80	NO	35.72	0.978	2.71e6	2.65e6	97.8	-2.2	1.02	db
2	200417R1_2	100	0.79	NO	35.73	0.978	2.69e6	2.55e6	101	0.9	1.05	db
3	200417R1_3	100	0.81	NO	35.72	0.978	2.94e6	2.81e6	100	0.3	1.05	bb
4	200417R1_4	100	0.80	NO	35.74	0.977	2.64e6	2.54e6	99.7	-0.3	1.04	bb
5	200417R1_5	100	0.80	NO	35.70	0.977	3.33e6	3.12e6	102	2.4	1.07	bb
6	200417R1_6	100	0.80	NO	35.68	0.977	2.58e6	2.50e6	98.9	-1.1	1.03	bb

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**Compound name: 13C-PCB-81**

Response Factor: 0.974098

RRF SD: 0.0290969, Relative SD: 2.98706

Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.79	NO	38.88	1.064	2.57e6	2.65e6	99.3	-0.7	0.968	bd
2	200417R1_2	100	0.79	NO	38.89	1.064	2.45e6	2.55e6	98.7	-1.3	0.961	bd
3	200417R1_3	100	0.80	NO	38.88	1.064	2.69e6	2.81e6	98.5	-1.5	0.959	dd
4	200417R1_4	100	0.79	NO	38.90	1.064	2.39e6	2.54e6	97.0	-3.0	0.945	bd
5	200417R1_5	100	0.80	NO	38.88	1.064	3.20e6	3.12e6	105	5.4	1.03	dd
6	200417R1_6	100	0.79	NO	38.86	1.064	2.47e6	2.50e6	101	1.1	0.985	bd

**Compound name: 13C-PCB-77**

Response Factor: 0.95064

RRF SD: 0.0351733, Relative SD: 3.69996

Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.80	NO	39.49	1.081	2.48e6	2.65e6	98.4	-1.6	0.935	bb
2	200417R1_2	100	0.80	NO	39.51	1.081	2.39e6	2.55e6	98.5	-1.5	0.937	bb
3	200417R1_3	100	0.81	NO	39.49	1.081	2.60e6	2.81e6	97.3	-2.7	0.925	bb
4	200417R1_4	100	0.80	NO	39.51	1.080	2.33e6	2.54e6	96.8	-3.2	0.920	bb
5	200417R1_5	100	0.81	NO	39.47	1.081	3.15e6	3.12e6	106	6.2	1.01	bb
6	200417R1_6	100	0.80	NO	39.47	1.081	2.44e6	2.50e6	103	2.8	0.977	bb

**Compound name: 13C-PCB-104**

Response Factor: 1.08447

RRF SD: 0.0994402, Relative SD: 9.16948

Response type: Internal Std ( Ref 216 ), 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	200417R1_1	100	1.60	NO	32.33	0.827	1.75e6	1.62e6	99.8	-0.2	1.08	bb
2	200417R1_2	100	1.64	NO	32.34	0.827	1.75e6	1.52e6	106	6.3	1.15	bb

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**Compound name: 13C-PCB-104**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	1.61	NO	32.33	0.827	1.95e6	1.68e6	107	7.5	1.17	bb
4	200417R1_4	100	1.62	NO	32.37	0.827	1.75e6	1.51e6	107	6.9	1.16	bb
5	200417R1_5	100	1.65	NO	32.31	0.827	1.87e6	2.05e6	84.0	-16.0	0.911	bb
6	200417R1_6	100	1.62	NO	32.31	0.827	1.60e6	1.54e6	95.5	-4.5	1.04	bb

**Compound name: 13C-PCB-95**

Response Factor: 0.847436  
 RRF SD: 0.0429804, Relative SD: 5.07182  
 Response type: Internal Std ( Ref 216 ), 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	200417R1_1	100	1.63	NO	35.59	0.910	1.36e6	1.62e6	98.8	-1.2	0.837	bb
2	200417R1_2	100	1.64	NO	35.60	0.910	1.33e6	1.52e6	103	3.3	0.876	bb
3	200417R1_3	100	1.62	NO	35.59	0.910	1.46e6	1.68e6	103	3.0	0.873	bb
4	200417R1_4	100	1.64	NO	35.60	0.910	1.33e6	1.51e6	104	4.0	0.881	bb
5	200417R1_5	100	1.64	NO	35.57	0.910	1.57e6	2.05e6	90.5	-9.5	0.767	bb
6	200417R1_6	100	1.60	NO	35.55	0.910	1.31e6	1.54e6	100	0.4	0.851	bb

**Compound name: 13C-PCB-101**

Response Factor: 0.826894  
 RRF SD: 0.0228441, Relative SD: 2.76264  
 Response type: Internal Std ( Ref 216 ), 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	200417R1_1	100	1.64	NO	37.32	0.954	1.33e6	1.62e6	99.4	-0.6	0.822	bb
2	200417R1_2	100	1.67	NO	37.33	0.955	1.29e6	1.52e6	103	3.0	0.852	bb
3	200417R1_3	100	1.66	NO	37.32	0.954	1.41e6	1.68e6	102	1.9	0.843	bb
4	200417R1_4	100	1.67	NO	37.34	0.954	1.26e6	1.51e6	101	1.3	0.837	bb
5	200417R1_5	100	1.63	NO	37.30	0.954	1.62e6	2.05e6	95.2	-4.8	0.787	bb
6	200417R1_6	100	1.63	NO	37.30	0.955	1.26e6	1.54e6	99.2	-0.8	0.820	bb

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**Compound name: 13C-PCB-97**

Response Factor: 0.707293

RRF SD: 0.0209031, Relative SD: 2.95536

Response type: Internal Std ( Ref 216 ), 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	200417R1_1	100	1.64	NO	38.64	0.988	1.17e6	1.62e6	102	2.5	0.725	bb
2	200417R1_2	100	1.65	NO	38.65	0.989	1.09e6	1.52e6	101	1.3	0.717	bb
3	200417R1_3	100	1.66	NO	38.64	0.988	1.21e6	1.68e6	102	1.8	0.720	bb
4	200417R1_4	100	1.61	NO	38.67	0.989	1.08e6	1.51e6	101	1.2	0.716	bb
5	200417R1_5	100	1.61	NO	38.64	0.989	1.37e6	2.05e6	94.6	-5.4	0.669	bb
6	200417R1_6	100	1.60	NO	38.62	0.989	1.08e6	1.54e6	98.6	-1.4	0.697	bb

**Compound name: 13C-PCB-123**

Response Factor: 0.914067

RRF SD: 0.00705544, Relative SD: 0.771873

Response type: Internal Std ( Ref 216 ), 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	200417R1_1	100	1.60	NO	41.28	1.056	1.48e6	1.62e6	99.8	-0.2	0.912	bd
2	200417R1_2	100	1.60	NO	41.28	1.056	1.40e6	1.52e6	101	0.6	0.920	bd
3	200417R1_3	100	1.61	NO	41.28	1.056	1.53e6	1.68e6	100	0.1	0.915	bd
4	200417R1_4	100	1.65	NO	41.30	1.056	1.39e6	1.51e6	101	0.5	0.919	bd
5	200417R1_5	100	1.64	NO	41.26	1.056	1.88e6	2.05e6	100	0.4	0.918	bd
6	200417R1_6	100	1.63	NO	41.26	1.056	1.39e6	1.54e6	98.6	-1.4	0.901	bd

**Compound name: 13C-PCB-118**

Response Factor: 0.960525

RRF SD: 0.0226334, Relative SD: 2.35635

Response type: Internal Std ( Ref 216 ), 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	200417R1_1	100	1.64	NO	41.47	1.060	1.53e6	1.62e6	98.3	-1.7	0.944	db
2	200417R1_2	100	1.63	NO	41.46	1.060	1.46e6	1.52e6	99.8	-0.2	0.959	db

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: 13C-PCB-118**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	1.63	NO	41.47	1.060	1.59e6	1.68e6	98.5	-1.5	0.946	db
4	200417R1_4	100	1.61	NO	41.49	1.060	1.42e6	1.51e6	97.8	-2.2	0.939	db
5	200417R1_5	100	1.67	NO	41.45	1.061	2.01e6	2.05e6	102	1.8	0.978	db
6	200417R1_6	100	1.64	NO	41.45	1.061	1.54e6	1.54e6	104	3.8	0.997	db

**Compound name: 13C-PCB-114**

Response Factor: 1.40563

RRF SD: 0.0361853, Relative SD: 2.57431

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.59	NO	42.12	0.908	1.93e6	1.38e6	99.9	-0.1	1.40	bb
2	200417R1_2	100	1.58	NO	42.13	0.908	1.90e6	1.37e6	98.3	-1.7	1.38	bb
3	200417R1_3	100	1.59	NO	42.12	0.908	2.04e6	1.48e6	98.2	-1.8	1.38	bb
4	200417R1_4	100	1.56	NO	42.14	0.908	1.83e6	1.31e6	99.1	-0.9	1.39	bb
5	200417R1_5	100	1.58	NO	42.12	0.908	2.53e6	1.81e6	99.4	-0.6	1.40	bb
6	200417R1_6	100	1.58	NO	42.12	0.908	1.88e6	1.27e6	105	5.1	1.48	bb

**Compound name: 13C-PCB-105**

Response Factor: 1.55787

RRF SD: 0.0570481, Relative SD: 3.66192

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.57	NO	43.01	0.927	2.00e6	1.38e6	93.2	-6.8	1.45	bd
2	200417R1_2	100	1.57	NO	43.03	0.927	2.21e6	1.37e6	103	3.4	1.61	bd
3	200417R1_3	100	1.56	NO	43.01	0.927	2.29e6	1.48e6	99.7	-0.3	1.55	bd
4	200417R1_4	100	1.58	NO	43.03	0.927	2.09e6	1.31e6	102	2.1	1.59	bd
5	200417R1_5	100	1.57	NO	43.01	0.927	2.81e6	1.81e6	99.7	-0.3	1.55	bb
6	200417R1_6	100	1.56	NO	42.99	0.927	2.02e6	1.27e6	102	2.0	1.59	bd

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: 13C-PCB-127**

Response Factor: 1.7128

RRF SD: 0.124596, Relative SD: 7.27437

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.57	NO	43.37	0.935	2.04e6	1.38e6	86.6	-13.4	1.48	db
2	200417R1_2	100	1.57	NO	43.37	0.935	2.50e6	1.37e6	106	6.4	1.82	db
3	200417R1_3	100	1.57	NO	43.37	0.935	2.65e6	1.48e6	105	4.8	1.80	db
4	200417R1_4	100	1.56	NO	43.39	0.935	2.32e6	1.31e6	103	3.2	1.77	db
5	200417R1_5	100	1.57	NO	43.35	0.935	3.16e6	1.81e6	102	1.9	1.75	bb
6	200417R1_6	100	1.57	NO	43.35	0.935	2.12e6	1.27e6	97.2	-2.8	1.66	db

**Compound name: 13C-PCB-126**

Response Factor: 1.36844

RRF SD: 0.034139, Relative SD: 2.49473

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.58	NO	45.31	0.977	1.81e6	1.38e6	96.1	-3.9	1.31	bd
2	200417R1_2	100	1.55	NO	45.32	0.977	1.88e6	1.37e6	100	0.1	1.37	bb
3	200417R1_3	100	1.58	NO	45.31	0.977	2.02e6	1.48e6	99.7	-0.3	1.36	bb
4	200417R1_4	100	1.56	NO	45.32	0.977	1.78e6	1.31e6	99.3	-0.7	1.36	bb
5	200417R1_5	100	1.57	NO	45.31	0.977	2.51e6	1.81e6	101	1.2	1.38	bb
6	200417R1_6	100	1.57	NO	45.29	0.976	1.81e6	1.27e6	104	3.7	1.42	bb

**Compound name: 13C-PCB-155**

Response Factor: 0.634358

RRF SD: 0.0287976, Relative SD: 4.53964

Response type: Internal Std ( Ref 216 ), 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	200417R1_1	100	1.32	NO	36.85	0.942	1.04e6	1.62e6	101	1.1	0.641	bb
2	200417R1_2	100	1.32	NO	36.85	0.942	9.88e5	1.52e6	103	2.6	0.651	bb

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**Compound name: 13C-PCB-155**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	1.30	NO	36.85	0.942	1.09e6	1.68e6	103	2.9	0.653	bb
4	200417R1_4	100	1.32	NO	36.87	0.942	1.00e6	1.51e6	105	4.6	0.664	bb
5	200417R1_5	100	1.28	NO	36.83	0.942	1.21e6	2.05e6	93.2	-6.8	0.591	bb
6	200417R1_6	100	1.30	NO	36.81	0.942	9.36e5	1.54e6	95.6	-4.4	0.606	bb

**Compound name: 13C-PCB-153**

Response Factor: 1.52655

RRF SD: 0.0896228, Relative SD: 5.87092

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.26	NO	43.18	0.931	1.89e6	1.38e6	89.8	-10.2	1.37	bb
2	200417R1_2	100	1.26	NO	43.20	0.931	2.22e6	1.37e6	106	6.0	1.62	bb
3	200417R1_3	100	1.26	NO	43.18	0.931	2.33e6	1.48e6	103	3.1	1.57	bb
4	200417R1_4	100	1.26	NO	43.20	0.931	2.08e6	1.31e6	104	3.6	1.58	bb
5	200417R1_5	100	1.26	NO	43.18	0.931	2.78e6	1.81e6	101	0.5	1.53	bb
6	200417R1_6	100	1.27	NO	43.16	0.931	1.89e6	1.27e6	97.0	-3.0	1.48	bb

**Compound name: 13C-PCB-141**

Response Factor: 1.19198

RRF SD: 0.047837, Relative SD: 4.01324

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.28	NO	43.94	0.947	1.55e6	1.38e6	94.5	-5.5	1.13	bb
2	200417R1_2	100	1.28	NO	43.95	0.947	1.69e6	1.37e6	103	3.5	1.23	bb
3	200417R1_3	100	1.28	NO	43.94	0.947	1.82e6	1.48e6	104	3.6	1.23	bb
4	200417R1_4	100	1.28	NO	43.96	0.947	1.60e6	1.31e6	102	2.0	1.22	bb
5	200417R1_5	100	1.28	NO	43.94	0.947	2.18e6	1.81e6	101	1.0	1.20	bb
6	200417R1_6	100	1.28	NO	43.92	0.947	1.45e6	1.27e6	95.5	-4.5	1.14	bb



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**Compound name: 13C-PCB-138**

Response Factor: 1.18121

RRF SD: 0.0203319, Relative SD: 1.72129

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.29	NO	44.79	0.966	1.57e6	1.38e6	96.7	-3.3	1.14	bb
2	200417R1_2	100	1.29	NO	44.81	0.966	1.63e6	1.37e6	101	0.6	1.19	bb
3	200417R1_3	100	1.28	NO	44.79	0.966	1.76e6	1.48e6	101	0.6	1.19	bb
4	200417R1_4	100	1.27	NO	44.81	0.966	1.58e6	1.31e6	102	1.7	1.20	bb
5	200417R1_5	100	1.27	NO	44.79	0.966	2.15e6	1.81e6	100	0.2	1.18	bb
6	200417R1_6	100	1.26	NO	44.79	0.966	1.51e6	1.27e6	100	0.2	1.18	bb

**Compound name: 13C-PCB-159**

Response Factor: 1.38356

RRF SD: 0.0292376, Relative SD: 2.11321

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.28	NO	46.12	0.994	1.84e6	1.38e6	96.6	-3.4	1.34	bd
2	200417R1_2	100	1.28	NO	46.13	0.994	1.89e6	1.37e6	99.2	-0.8	1.37	bd
3	200417R1_3	100	1.28	NO	46.12	0.994	2.04e6	1.48e6	100	0.0	1.38	bd
4	200417R1_4	100	1.27	NO	46.14	0.994	1.82e6	1.31e6	100	0.0	1.38	bd
5	200417R1_5	100	1.27	NO	46.12	0.994	2.54e6	1.81e6	101	1.4	1.40	bd
6	200417R1_6	100	1.28	NO	46.10	0.994	1.81e6	1.27e6	103	2.9	1.42	bd

**Compound name: 13C-PCB-167**

Response Factor: 1.3827

RRF SD: 0.0106552, Relative SD: 0.770606

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.27	NO	46.82	1.009	1.88e6	1.38e6	98.7	-1.3	1.36	bb
2	200417R1_2	100	1.27	NO	46.83	1.009	1.90e6	1.37e6	100	0.1	1.38	bb

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**Compound name: 13C-PCB-167**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	1.27	NO	46.82	1.009	2.04e6	1.48e6	99.6	-0.4	1.38	bb
4	200417R1_4	100	1.28	NO	46.84	1.009	1.83e6	1.31e6	101	0.8	1.39	bb
5	200417R1_5	100	1.26	NO	46.82	1.009	2.51e6	1.81e6	100	0.2	1.39	bb
6	200417R1_6	100	1.28	NO	46.80	1.009	1.77e6	1.27e6	101	0.6	1.39	bb

**Compound name: 13C-PCB-156**

Response Factor: 1.32755  
 RRF SD: 0.0263587, Relative SD: 1.98551  
 Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.26	NO	48.15	1.038	1.86e6	1.38e6	102	1.8	1.35	bb
2	200417R1_2	100	1.28	NO	48.14	1.038	1.82e6	1.37e6	99.6	-0.4	1.32	bb
3	200417R1_3	100	1.27	NO	48.15	1.038	1.91e6	1.48e6	97.1	-2.9	1.29	bb
4	200417R1_4	100	1.30	NO	48.15	1.038	1.72e6	1.31e6	98.6	-1.4	1.31	bb
5	200417R1_5	100	1.27	NO	48.13	1.038	2.42e6	1.81e6	100	0.5	1.33	bb
6	200417R1_6	100	1.26	NO	48.13	1.038	1.73e6	1.27e6	102	2.5	1.36	bb

**Compound name: 13C-PCB-157**

Response Factor: 1.3633  
 RRF SD: 0.0231547, Relative SD: 1.69843  
 Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.29	NO	48.41	1.044	1.88e6	1.38e6	100	0.4	1.37	bb
2	200417R1_2	100	1.28	NO	48.42	1.044	1.86e6	1.37e6	99.5	-0.5	1.36	bb
3	200417R1_3	100	1.28	NO	48.41	1.044	1.97e6	1.48e6	98.0	-2.0	1.34	bb
4	200417R1_4	100	1.28	NO	48.43	1.044	1.78e6	1.31e6	99.6	-0.4	1.36	bb
5	200417R1_5	100	1.28	NO	48.41	1.044	2.46e6	1.81e6	99.5	-0.5	1.36	bb
6	200417R1_6	100	1.27	NO	48.39	1.043	1.79e6	1.27e6	103	3.1	1.41	bb

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**Compound name: 13C-PCB-169**

Response Factor: 1.26832

RRF SD: 0.0331982, Relative SD: 2.61749

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.27	NO	50.67	1.092	1.71e6	1.38e6	97.9	-2.1	1.24	bb
2	200417R1_2	100	1.26	NO	50.68	1.092	1.72e6	1.37e6	98.9	-1.1	1.25	bb
3	200417R1_3	100	1.27	NO	50.67	1.092	1.83e6	1.48e6	97.8	-2.2	1.24	bb
4	200417R1_4	100	1.28	NO	50.69	1.092	1.66e6	1.31e6	99.8	-0.2	1.27	bb
5	200417R1_5	100	1.27	NO	50.67	1.092	2.31e6	1.81e6	101	0.7	1.28	bb
6	200417R1_6	100	1.27	NO	50.67	1.092	1.69e6	1.27e6	105	4.8	1.33	bb

**Compound name: 13C-PCB-188**

Response Factor: 1.40918

RRF SD: 0.0140301, Relative SD: 0.995619

Response type: Internal Std ( Ref 218 ), 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	200417R1_1	100	0.46	NO	42.80	0.926	1.48e6	1.05e6	100	0.1	1.41	bb
2	200417R1_2	100	0.45	NO	42.82	0.926	1.49e6	1.05e6	100	0.5	1.42	bb
3	200417R1_3	100	0.46	NO	42.80	0.926	1.61e6	1.13e6	101	1.2	1.43	bb
4	200417R1_4	100	0.46	NO	42.82	0.926	1.44e6	1.01e6	101	0.6	1.42	bb
5	200417R1_5	100	0.46	NO	42.80	0.926	1.98e6	1.42e6	98.5	-1.5	1.39	bb
6	200417R1_6	100	0.46	NO	42.78	0.926	1.47e6	1.05e6	99.2	-0.8	1.40	bb

**Compound name: 13C-PCB-180**

Response Factor: 0.897359

RRF SD: 0.0170638, Relative SD: 1.90156

Response type: Internal Std ( Ref 218 ), 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	200417R1_1	100	0.46	NO	49.45	1.070	9.57e5	1.05e6	101	1.5	0.910	bd
2	200417R1_2	100	0.45	NO	49.47	1.070	9.55e5	1.05e6	101	1.0	0.906	bb

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**Compound name: 13C-PCB-180**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	0.46	NO	49.45	1.070	1.01e6	1.13e6	100	0.2	0.899	bd
4	200417R1_4	100	0.46	NO	49.47	1.070	9.22e5	1.01e6	101	1.2	0.908	bd
5	200417R1_5	100	0.46	NO	49.45	1.070	1.28e6	1.42e6	99.9	-0.1	0.896	bd
6	200417R1_6	100	0.46	NO	49.45	1.070	9.10e5	1.05e6	96.3	-3.7	0.864	bd

**Compound name: 13C-PCB-170**

Response Factor: 0.769045  
 RRF SD: 0.0200159, Relative SD: 2.6027  
 Response type: Internal Std ( Ref 218 ), 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	200417R1_1	100	0.46	NO	51.12	1.106	8.14e5	1.05e6	101	0.8	0.775	bb
2	200417R1_2	100	0.45	NO	51.12	1.106	8.23e5	1.05e6	102	1.5	0.781	bd
3	200417R1_3	100	0.46	NO	51.12	1.106	8.75e5	1.13e6	101	1.1	0.777	bb
4	200417R1_4	100	0.45	NO	51.12	1.106	8.00e5	1.01e6	102	2.5	0.788	bb
5	200417R1_5	100	0.46	NO	51.12	1.106	1.08e6	1.42e6	99.0	-1.0	0.761	bb
6	200417R1_6	100	0.45	NO	51.10	1.106	7.71e5	1.05e6	95.2	-4.8	0.732	bb

**Compound name: 13C-PCB-189**

Response Factor: 1.05128  
 RRF SD: 0.0506963, Relative SD: 4.82233  
 Response type: Internal Std ( Ref 218 ), 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	200417R1_1	100	0.46	NO	52.90	1.145	1.03e6	1.05e6	93.1	-6.9	0.979	bb
2	200417R1_2	100	0.46	NO	52.92	1.145	1.14e6	1.05e6	103	3.0	1.08	bd
3	200417R1_3	100	0.46	NO	52.90	1.145	1.23e6	1.13e6	104	3.9	1.09	bb
4	200417R1_4	100	0.46	NO	52.90	1.144	1.12e6	1.01e6	105	4.8	1.10	bd
5	200417R1_5	100	0.46	NO	52.90	1.145	1.50e6	1.42e6	100	0.0	1.05	bb
6	200417R1_6	100	0.46	NO	52.90	1.145	1.05e6	1.05e6	95.2	-4.8	1.00	bd

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: 13C-PCB-202**

Response Factor: 1.04514

RRF SD: 0.0275434, Relative SD: 2.63538

Response type: Internal Std ( Ref 218 ), 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	200417R1_1	100	0.94	NO	48.35	1.046	1.11e6	1.05e6	101	0.8	1.05	bb
2	200417R1_2	100	0.94	NO	48.37	1.046	1.11e6	1.05e6	101	1.0	1.06	bb
3	200417R1_3	100	0.93	NO	48.35	1.046	1.20e6	1.13e6	102	1.8	1.06	bb
4	200417R1_4	100	0.94	NO	48.37	1.046	1.09e6	1.01e6	103	2.7	1.07	bb
5	200417R1_5	100	0.93	NO	48.35	1.046	1.46e6	1.42e6	98.0	-2.0	1.02	bb
6	200417R1_6	100	0.93	NO	48.35	1.046	1.05e6	1.05e6	95.7	-4.3	1.00	bb

**Compound name: 13C-PCB-194**

Response Factor: 0.752644

RRF SD: 0.0219349, Relative SD: 2.91438

Response type: Internal Std ( Ref 219 ), 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	200417R1_1	100	0.89	NO	54.55	0.995	1.08e6	1.48e6	97.1	-2.9	0.731	bb
2	200417R1_2	100	0.89	NO	54.56	0.995	1.12e6	1.55e6	95.6	-4.4	0.719	bb
3	200417R1_3	100	0.89	NO	54.55	0.995	1.34e6	1.74e6	102	2.1	0.768	bb
4	200417R1_4	100	0.89	NO	54.57	0.995	1.19e6	1.54e6	103	2.6	0.772	bb
5	200417R1_5	100	0.89	NO	54.55	0.995	1.58e6	2.08e6	101	1.2	0.761	bb
6	200417R1_6	100	0.88	NO	54.55	0.995	1.14e6	1.49e6	101	1.4	0.763	bb

**Compound name: 13C-PCB-208**

Response Factor: 0.988177

RRF SD: 0.0281188, Relative SD: 2.84552

Response type: Internal Std ( Ref 219 ), 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	200417R1_1	100	0.79	NO	53.78	0.980	1.52e6	1.48e6	104	4.1	1.03	bb
2	200417R1_2	100	0.78	NO	53.79	0.981	1.58e6	1.55e6	103	2.5	1.01	bb

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: 13C-PCB-208**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	0.78	NO	53.78	0.981	1.66e6	1.74e6	96.6	-3.4	0.955	bb
4	200417R1_4	100	0.79	NO	53.79	0.981	1.50e6	1.54e6	99.1	-0.9	0.980	bb
5	200417R1_5	100	0.79	NO	53.78	0.981	2.05e6	2.08e6	99.7	-0.3	0.985	bb
6	200417R1_6	100	0.78	NO	53.78	0.981	1.44e6	1.49e6	97.8	-2.2	0.967	bb

**Compound name: 13C-PCB-206**

Response Factor: 0.672384  
 RRF SD: 0.0153435, Relative SD: 2.28195  
 Response type: Internal Std ( Ref 219 ), 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	200417R1_1	100	0.77	NO	56.09	1.023	9.65e5	1.48e6	97.0	-3.0	0.652	bb
2	200417R1_2	100	0.79	NO	56.09	1.023	1.08e6	1.55e6	103	3.4	0.695	bd
3	200417R1_3	100	0.79	NO	56.09	1.023	1.17e6	1.74e6	100	0.4	0.675	bd
4	200417R1_4	100	0.79	NO	56.09	1.023	1.03e6	1.54e6	100	0.2	0.674	bd
5	200417R1_5	100	0.80	NO	56.09	1.023	1.41e6	2.08e6	101	1.1	0.679	bb
6	200417R1_6	100	0.77	NO	56.09	1.023	9.80e5	1.49e6	97.9	-2.1	0.658	bd

**Compound name: 13C-PCB-209**

Response Factor: 0.609209  
 RRF SD: 0.0294422, Relative SD: 4.83286  
 Response type: Internal Std ( Ref 219 ), 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	200417R1_1	100	1.20	NO	57.33	1.045	9.73e5	1.48e6	108	7.9	0.658	bb
2	200417R1_2	100	1.22	NO	57.33	1.045	9.82e5	1.55e6	104	3.7	0.632	bb
3	200417R1_3	100	1.20	NO	57.33	1.046	1.02e6	1.74e6	96.1	-3.9	0.585	bb
4	200417R1_4	100	1.21	NO	57.33	1.045	9.26e5	1.54e6	99.0	-1.0	0.603	bb
5	200417R1_5	100	1.21	NO	57.32	1.045	1.23e6	2.08e6	97.4	-2.6	0.594	bb
6	200417R1_6	100	1.20	NO	57.33	1.046	8.70e5	1.49e6	95.9	-4.1	0.584	bb

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: 13C-PCB-15**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 213 ), 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	200417R1_1	100	1.56	NO	25.47	0.000	4.19e6	4.19e6	100	0.0	1.00	bb
2	200417R1_2	100	1.55	NO	25.47	0.000	4.18e6	4.18e6	100	0.0	1.00	bb
3	200417R1_3	100	1.56	NO	25.45	0.000	4.59e6	4.59e6	100	0.0	1.00	bb
4	200417R1_4	100	1.55	NO	25.51	0.000	4.11e6	4.11e6	100	0.0	1.00	bb
5	200417R1_5	100	1.55	NO	25.43	0.000	3.29e6	3.29e6	100	0.0	1.00	bb
6	200417R1_6	100	1.55	NO	25.42	0.000	3.88e6	3.88e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-31**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 214 ), 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	200417R1_1	100	1.02	NO	28.57	0.000	3.24e6	3.24e6	100	0.0	1.00	bd
2	200417R1_2	100	1.02	NO	28.58	0.000	3.19e6	3.19e6	100	0.0	1.00	bd
3	200417R1_3	100	1.02	NO	28.57	0.000	3.52e6	3.52e6	100	0.0	1.00	bd
4	200417R1_4	100	1.02	NO	28.61	0.000	3.17e6	3.17e6	100	0.0	1.00	bd
5	200417R1_5	100	1.02	NO	28.55	0.000	3.14e6	3.14e6	100	0.0	1.00	bd
6	200417R1_6	100	1.02	NO	28.53	0.000	2.94e6	2.94e6	100	0.0	1.00	bd

**Compound name: 13C-PCB-60**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.80	NO	36.53	0.000	2.65e6	2.65e6	100	0.0	1.00	bb
2	200417R1_2	100	0.79	NO	36.55	0.000	2.55e6	2.55e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: 13C-PCB-60**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	0.80	NO	36.53	0.000	2.81e6	2.81e6	100	0.0	1.00	bb
4	200417R1_4	100	0.80	NO	36.57	0.000	2.54e6	2.54e6	100	0.0	1.00	bb
5	200417R1_5	100	0.79	NO	36.53	0.000	3.12e6	3.12e6	100	0.0	1.00	bb
6	200417R1_6	100	0.80	NO	36.52	0.000	2.50e6	2.50e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-111**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 216 ), 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	200417R1_1	100	1.61	NO	39.10	0.000	1.62e6	1.62e6	100	0.0	1.00	bb
2	200417R1_2	100	1.63	NO	39.10	0.000	1.52e6	1.52e6	100	0.0	1.00	bb
3	200417R1_3	100	1.65	NO	39.10	0.000	1.68e6	1.68e6	100	0.0	1.00	bb
4	200417R1_4	100	1.61	NO	39.12	0.000	1.51e6	1.51e6	100	0.0	1.00	bb
5	200417R1_5	100	1.64	NO	39.08	0.000	2.05e6	2.05e6	100	0.0	1.00	bb
6	200417R1_6	100	1.62	NO	39.07	0.000	1.54e6	1.54e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-128**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	1.28	NO	46.38	0.000	1.38e6	1.38e6	100	0.0	1.00	db
2	200417R1_2	100	1.28	NO	46.40	0.000	1.37e6	1.37e6	100	0.0	1.00	db
3	200417R1_3	100	1.26	NO	46.38	0.000	1.48e6	1.48e6	100	0.0	1.00	db
4	200417R1_4	100	1.28	NO	46.40	0.000	1.31e6	1.31e6	100	0.0	1.00	db
5	200417R1_5	100	1.26	NO	46.38	0.000	1.81e6	1.81e6	100	0.0	1.00	db
6	200417R1_6	100	1.28	NO	46.38	0.000	1.27e6	1.27e6	100	0.0	1.00	db



Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: 13C-PCB-182**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 218 ), 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	200417R1_1	100	0.45	NO	46.21	0.000	1.05e6	1.05e6	100	0.0	1.00	bb
2	200417R1_2	100	0.46	NO	46.23	0.000	1.05e6	1.05e6	100	0.0	1.00	bb
3	200417R1_3	100	0.46	NO	46.22	0.000	1.13e6	1.13e6	100	0.0	1.00	bb
4	200417R1_4	100	0.46	NO	46.23	0.000	1.01e6	1.01e6	100	0.0	1.00	bb
5	200417R1_5	100	0.46	NO	46.21	0.000	1.42e6	1.42e6	100	0.0	1.00	bb
6	200417R1_6	100	0.45	NO	46.21	0.000	1.05e6	1.05e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-205**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 219 ), 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	200417R1_1	100	0.89	NO	54.84	0.000	1.48e6	1.48e6	100	0.0	1.00	bb
2	200417R1_2	100	0.89	NO	54.84	0.000	1.55e6	1.55e6	100	0.0	1.00	bb
3	200417R1_3	100	0.89	NO	54.83	0.000	1.74e6	1.74e6	100	0.0	1.00	bb
4	200417R1_4	100	0.89	NO	54.84	0.000	1.54e6	1.54e6	100	0.0	1.00	bb
5	200417R1_5	100	0.89	NO	54.83	0.000	2.08e6	2.08e6	100	0.0	1.00	bb
6	200417R1_6	100	0.90	NO	54.83	0.000	1.49e6	1.49e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-79**

Response Factor: 1.07845

RRF SD: 0.0269343, Relative SD: 2.4975

Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.80	NO	37.63	1.030	2.84e6	2.65e6	99.4	-0.6	1.07	bb
2	200417R1_2	100	0.80	NO	37.65	1.030	2.80e6	2.55e6	102	2.1	1.10	bb

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

Last Altered: Monday, April 20, 2020 10:18:06 AM Pacific Daylight Time

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**Compound name: 13C-PCB-79**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200417R1_3	100	0.80	NO	37.63	1.030	2.97e6	2.81e6	98.3	-1.7	1.06	bb
4	200417R1_4	100	0.80	NO	37.65	1.030	2.65e6	2.54e6	97.0	-3.0	1.05	bb
5	200417R1_5	100	0.80	NO	37.61	1.030	3.49e6	3.12e6	104	3.8	1.12	bb
6	200417R1_6	100	0.79	NO	37.61	1.030	2.68e6	2.50e6	99.4	-0.6	1.07	bb

**Compound name: 13C-PCB-178**

Response Factor: 0.730703

RRF SD: 0.0111553, Relative SD: 1.52665

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	0.46	NO	45.67	0.988	9.85e5	1.38e6	98.0	-2.0	0.716	bb
2	200417R1_2	100	0.46	NO	45.68	0.988	1.03e6	1.37e6	102	2.4	0.748	bb
3	200417R1_3	100	0.45	NO	45.67	0.988	1.08e6	1.48e6	100	0.1	0.732	bb
4	200417R1_4	100	0.46	NO	45.68	0.988	9.64e5	1.31e6	100	0.5	0.734	bb
5	200417R1_5	100	0.46	NO	45.67	0.988	1.33e6	1.81e6	100	0.3	0.733	bb
6	200417R1_6	100	0.45	NO	45.65	0.988	9.18e5	1.27e6	98.7	-1.3	0.721	bb

**Compound name: 13C-PCB-79**

Response Factor: 1.07845

RRF SD: 0.0269343, Relative SD: 2.4975

Response type: Internal Std ( Ref 215 ), 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	200417R1_1	100	0.80	NO	37.63	0.968	2.84e6	2.57e6	100	0.0	1.11	bb
2	200417R1_2	100	0.80	NO	37.65	0.968	2.80e6	2.45e6	103	3.4	1.15	bb
3	200417R1_3	100	0.80	NO	37.63	0.968	2.97e6	2.69e6	99.8	-0.2	1.10	bb
4	200417R1_4	100	0.80	NO	37.65	0.968	2.65e6	2.39e6	100	0.1	1.11	bb
5	200417R1_5	100	0.80	NO	37.61	0.967	3.49e6	3.20e6	98.4	-1.6	1.09	bb
6	200417R1_6	100	0.79	NO	37.61	0.968	2.68e6	2.47e6	98.3	-1.7	1.09	bb

Dataset: U:\VG12.PRO\Results\200417R1\200417R1-CRV.qld

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**Compound name: 13C-PCB-178**

Response Factor: 0.730703

RRF SD: 0.0111553, Relative SD: 1.52665

Response type: Internal Std ( Ref 217 ), 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	200417R1_1	100	0.46	NO	45.67	0.923	9.85e5	9.57e5	98.5	-1.5	1.03	bb
2	200417R1_2	100	0.46	NO	45.68	0.923	1.03e6	9.55e5	103	3.1	1.08	bb
3	200417R1_3	100	0.45	NO	45.67	0.923	1.08e6	1.01e6	102	2.2	1.07	bb
4	200417R1_4	100	0.46	NO	45.68	0.923	9.64e5	9.22e5	100	0.1	1.05	bb
5	200417R1_5	100	0.46	NO	45.67	0.923	1.33e6	1.28e6	99.5	-0.5	1.04	bb
6	200417R1_6	100	0.45	NO	45.65	0.923	9.18e5	9.10e5	96.5	-3.5	1.01	bb

Dataset: Untitled

Last Altered: Monday, April 20, 2020 11:09:49 AM Pacific Daylight Time

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Method: U:\VG12.PRO\MethDB\PCB-209\_ZB1\_4-17-20.mdb 18 Apr 2020 09:45:17

Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

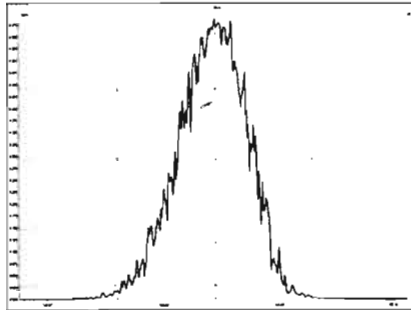
Compound name: PCB-1

	Name	ID	Acq.Date	Acq.Time
1	200417R1_1	ST200417R1_1 1668 PCB CS-1 19G2605	17-Apr-20	15:50:03
2	200417R1_2	ST200417R1_2 1668 PCB CS0 19G2606	17-Apr-20	17:04:35
3	200417R1_3	ST200417R1_3 1668 PCB CS1 19G2607	17-Apr-20	18:07:49
4	200417R1_4	ST200417R1_4 1668 PCB CS2 19G2608	17-Apr-20	19:10:58
5	200417R1_5	ST200417R1_5 1668 PCB CS3 19G2609	17-Apr-20	20:14:08
6	200417R1_6	ST200417R1_6 1668 PCB CS4 19G2610	17-Apr-20	21:17:17
7	200417R1_7	ST200417R1_7 1668 PCB CS5 19G2611	17-Apr-20	22:20:28
8	200417R1_8	SOLVENT BLANK	17-Apr-20	23:23:40
9	200417R1_9	SS200417R1_1 1668 PCB SSS 19G2612	18-Apr-20	00:26:52

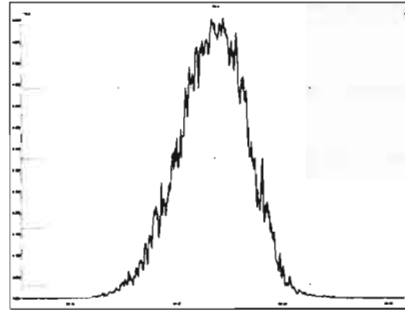
File: Experiment: PCB\_ZB1.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, April 17, 2020 15:44:09 Pacific Daylight Time

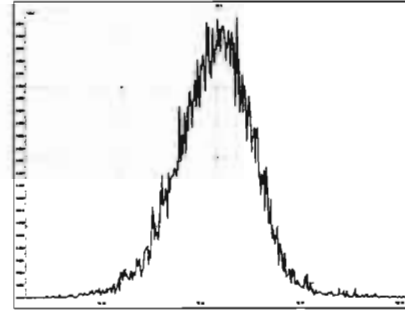
M 168.9888 R 12252



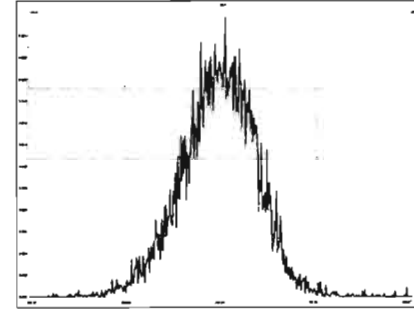
M 180.9888 R 12624



M 192.9888 R 10683



M 204.9888 R 11627



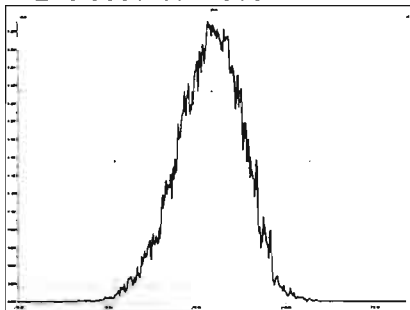
Experiment Calibration Report

MassLynx 4.1 SCN815

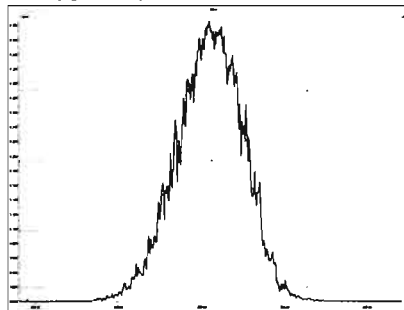
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Printed: Friday, April 17, 2020 15:44:49 Pacific Daylight Time

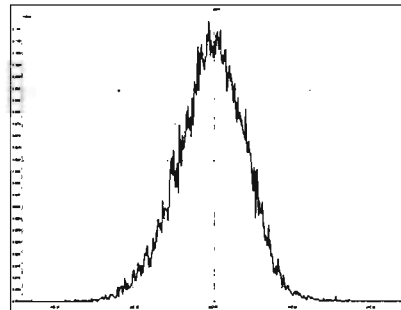
M 218.9856 R 12565



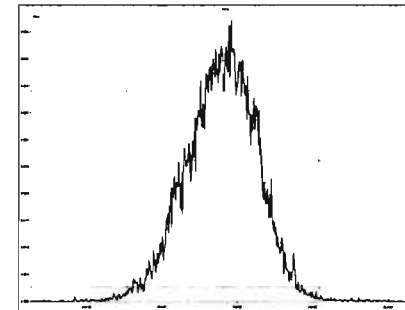
M 230.9856 R 12951



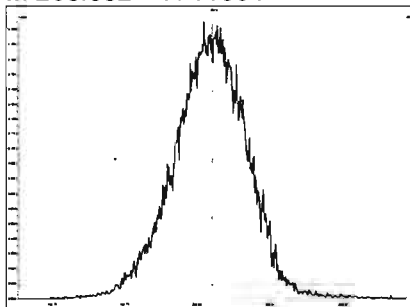
M 242.9856 R 11791



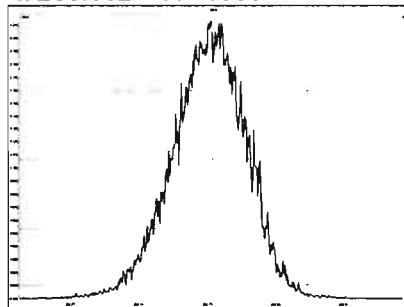
M 254.9856 R 12437



M 268.9824 R 11361



M 280.9824 R 11899



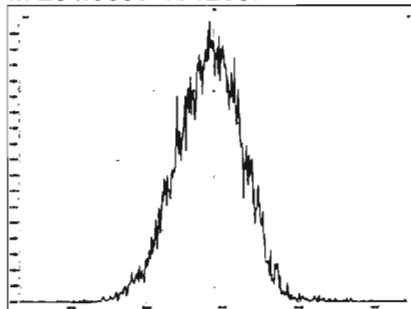
Experiment Calibration Report

MassLynx 4.1 SCN815

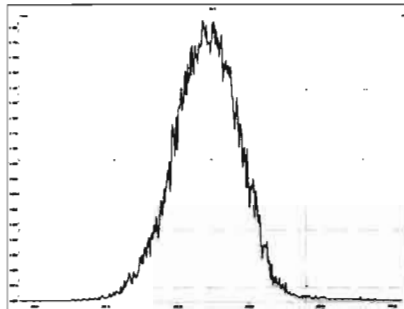
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Printed: Friday, April 17, 2020 15:45:44 Pacific Daylight Time

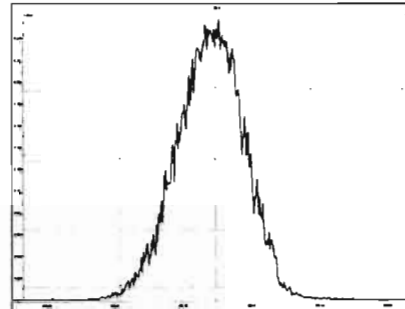
M 254.9856 R 12687



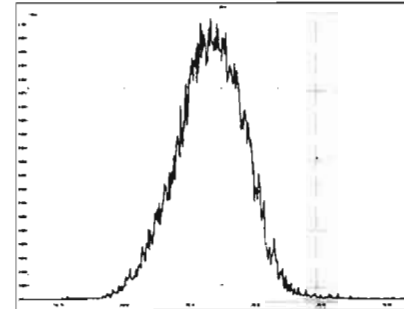
M 268.9824 R 12253



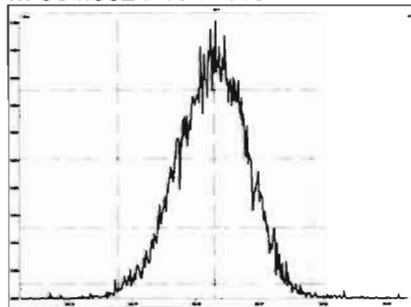
M 280.9824 R 12558



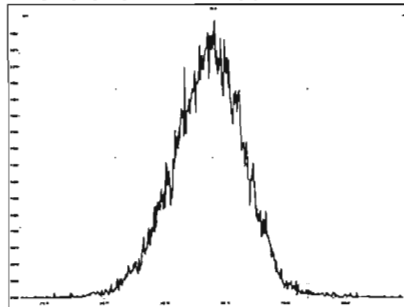
M 292.9824 R 12019



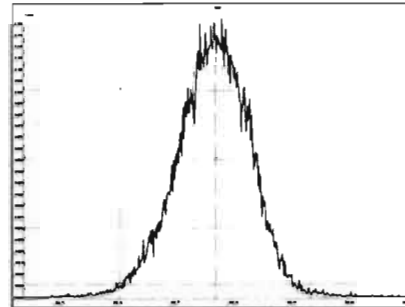
M 304.9824 R 11418



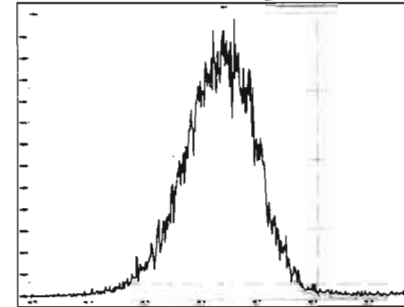
M 318.9792 R 11683



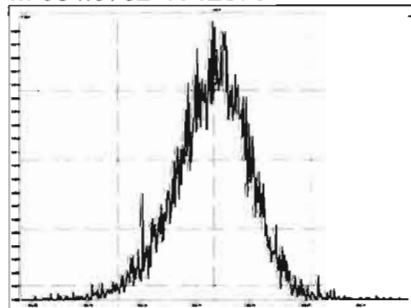
M 330.9792 R 11466



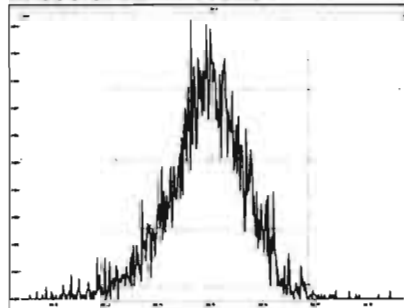
M 342.9792 R 11262



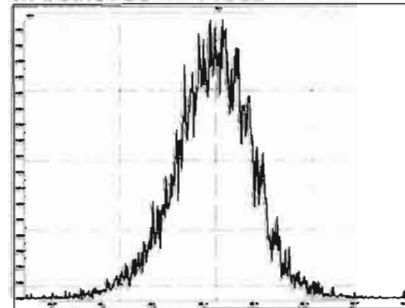
M 354.9792 R 12375



M 366.9792 R 11679



M 380.9760 R 11683



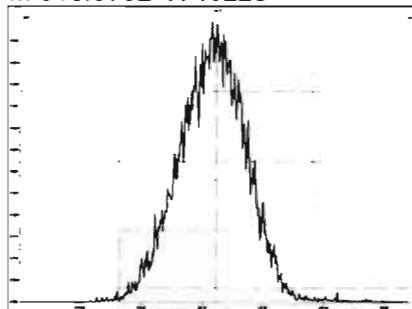
Experiment Calibration Report

MassLynx 4.1 SCN815

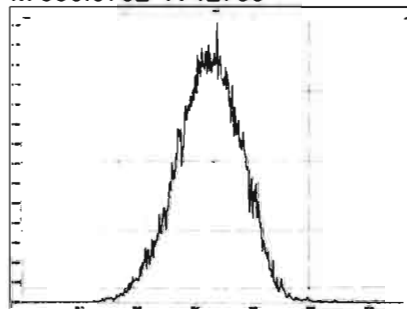
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Printed: Friday, April 17, 2020 15:46:48 Pacific Daylight Time

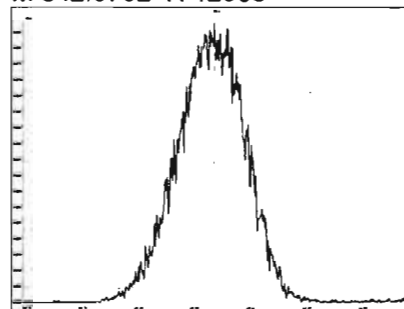
M 318.9792 R 13223



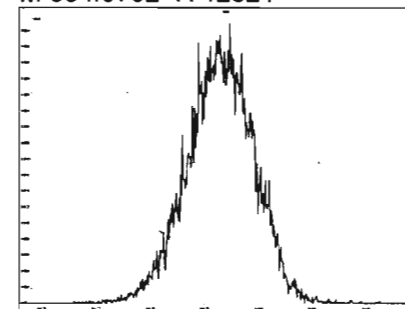
M 330.9792 R 12755



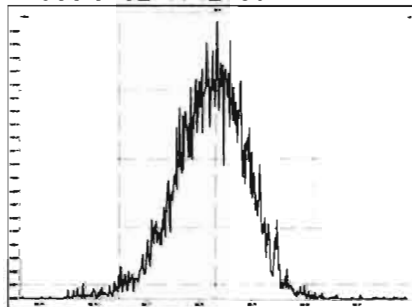
M 342.9792 R 12503



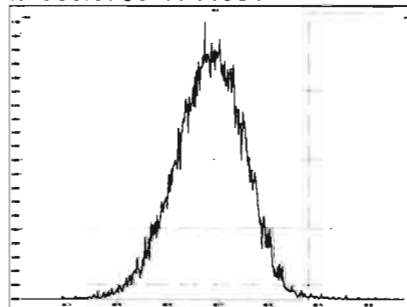
M 354.9792 R 12821



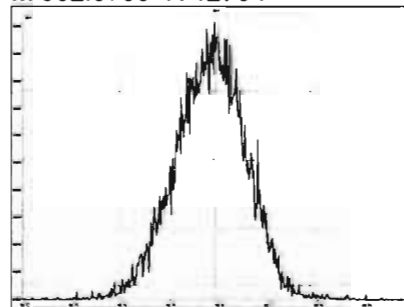
M 366.9792 R 12193



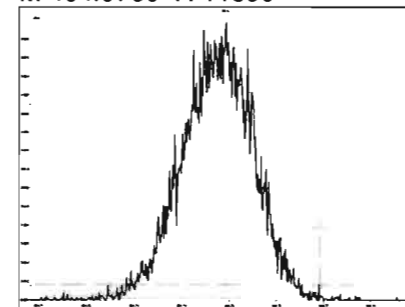
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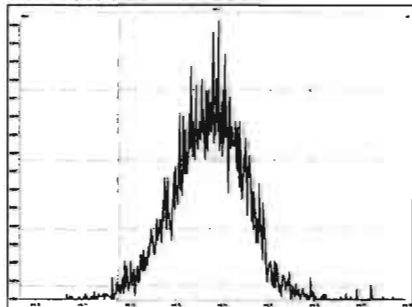
M 392.9760 R 12754



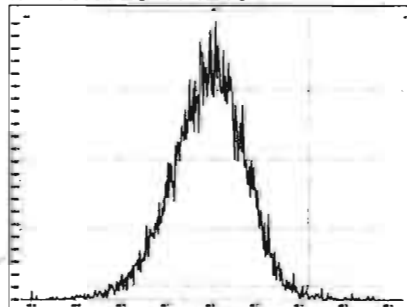
M 404.9760 R 11850



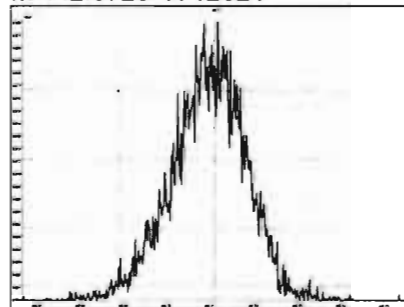
M 416.9760 R 13369



M 430.9728 R 12194



M 442.9728 R 12821

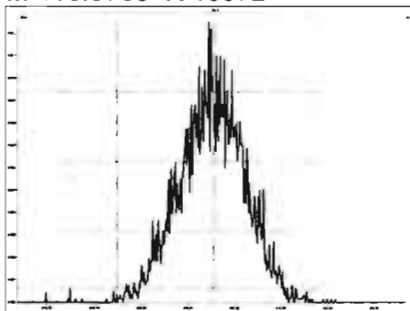




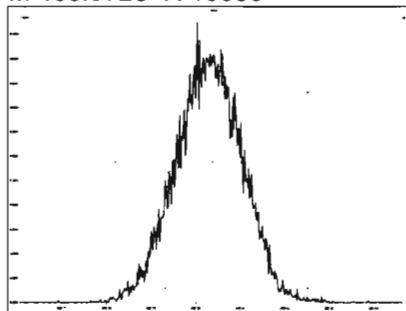
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Printed: Friday, April 17, 2020 15:48:31 Pacific Daylight Time

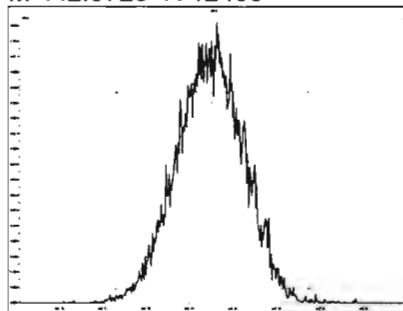
M 416.9760 R 13372



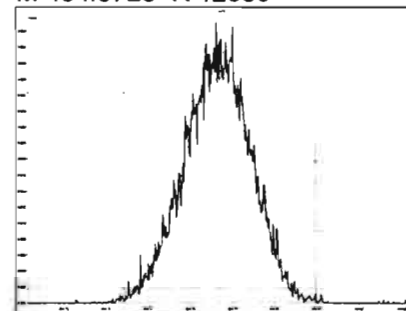
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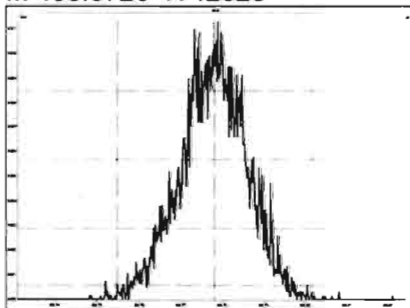
M 442.9728 R 12499



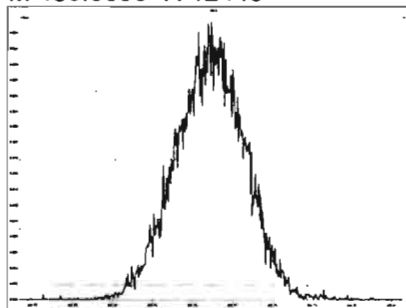
M 454.9728 R 12560



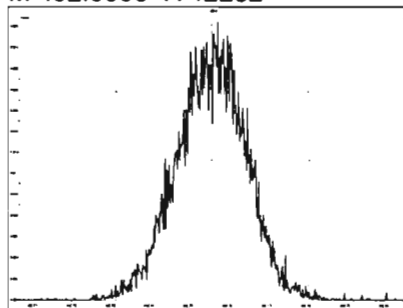
M 466.9728 R 12626



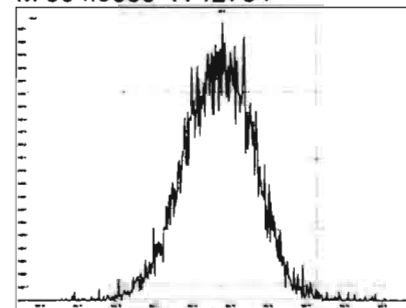
M 480.9696 R 12440



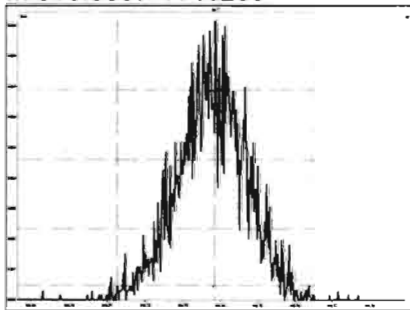
M 492.9696 R 12252



M 504.9696 R 12754



M 516.9697 R 13299



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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

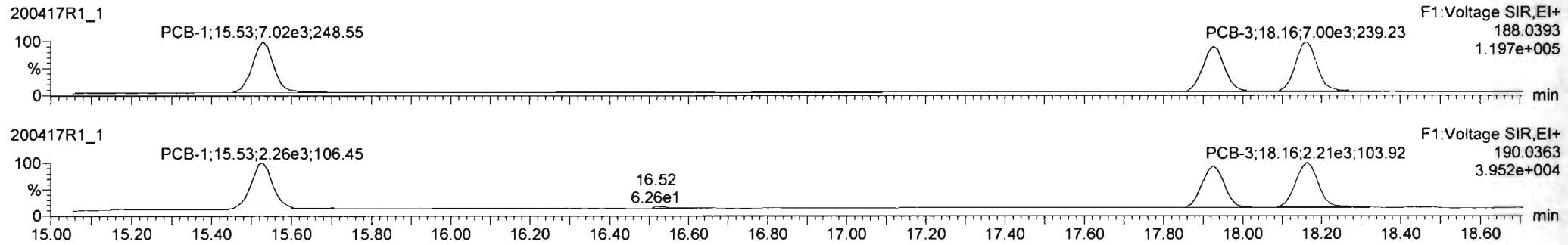
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Method: U:VG12.PROIMethDB\PCB-209\_ZB1\_4-17-20.mdb 18 Apr 2020 09:45:17

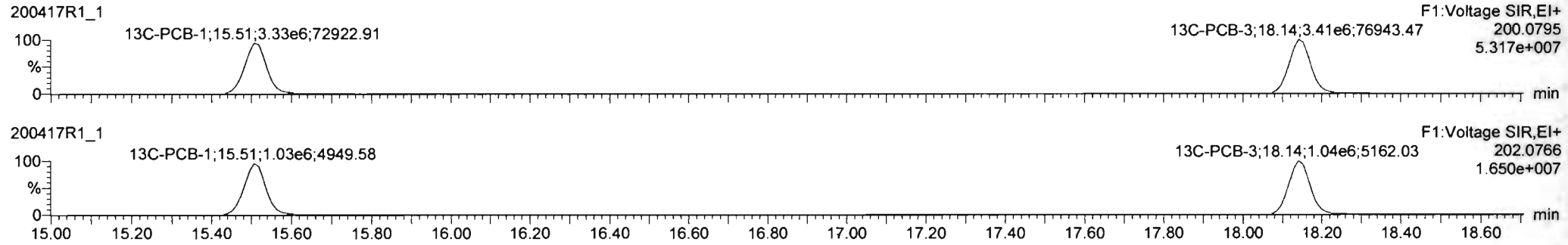
Calibration: 20 Apr 2020 10:41:38

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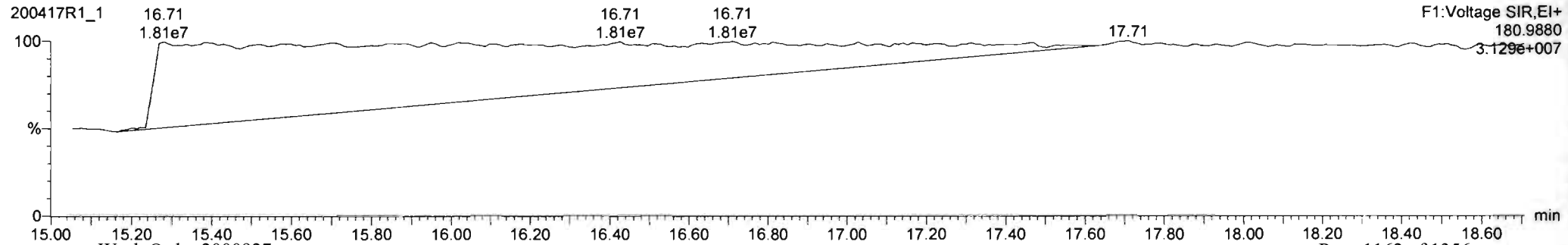
**PCB-1**



**13C-PCB-1**



**PFK1**



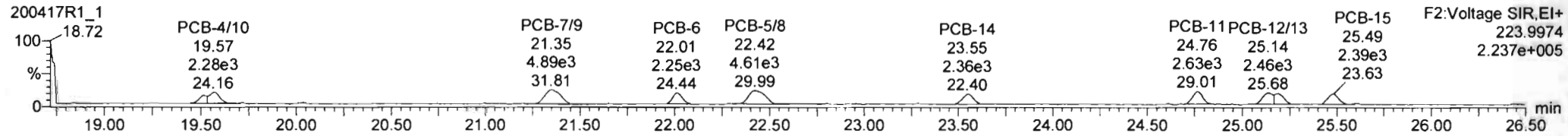
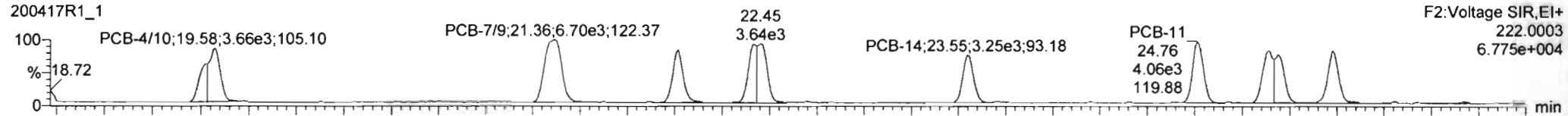
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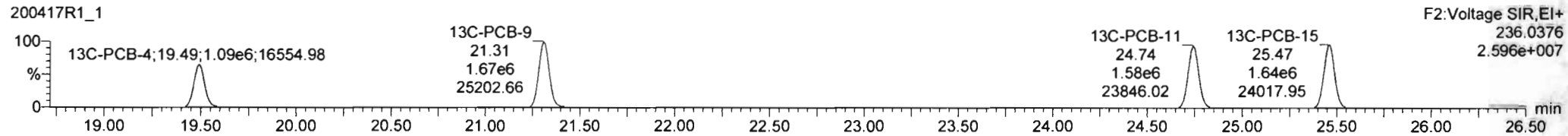
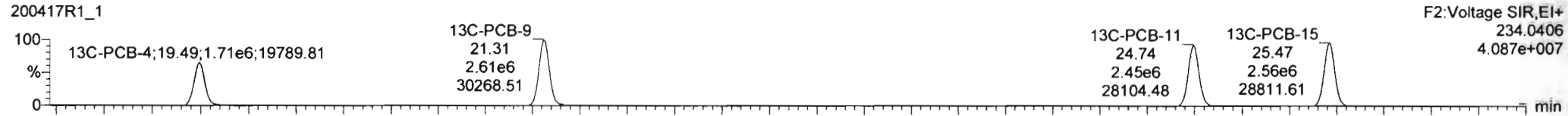
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Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

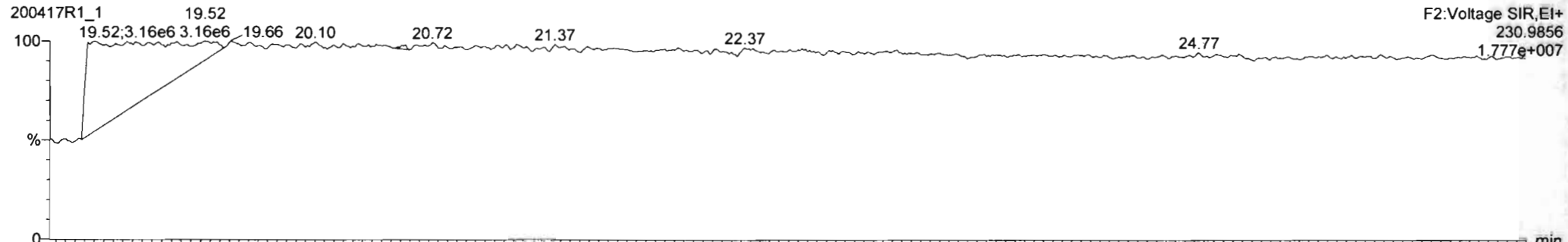
**PCB-4/10**

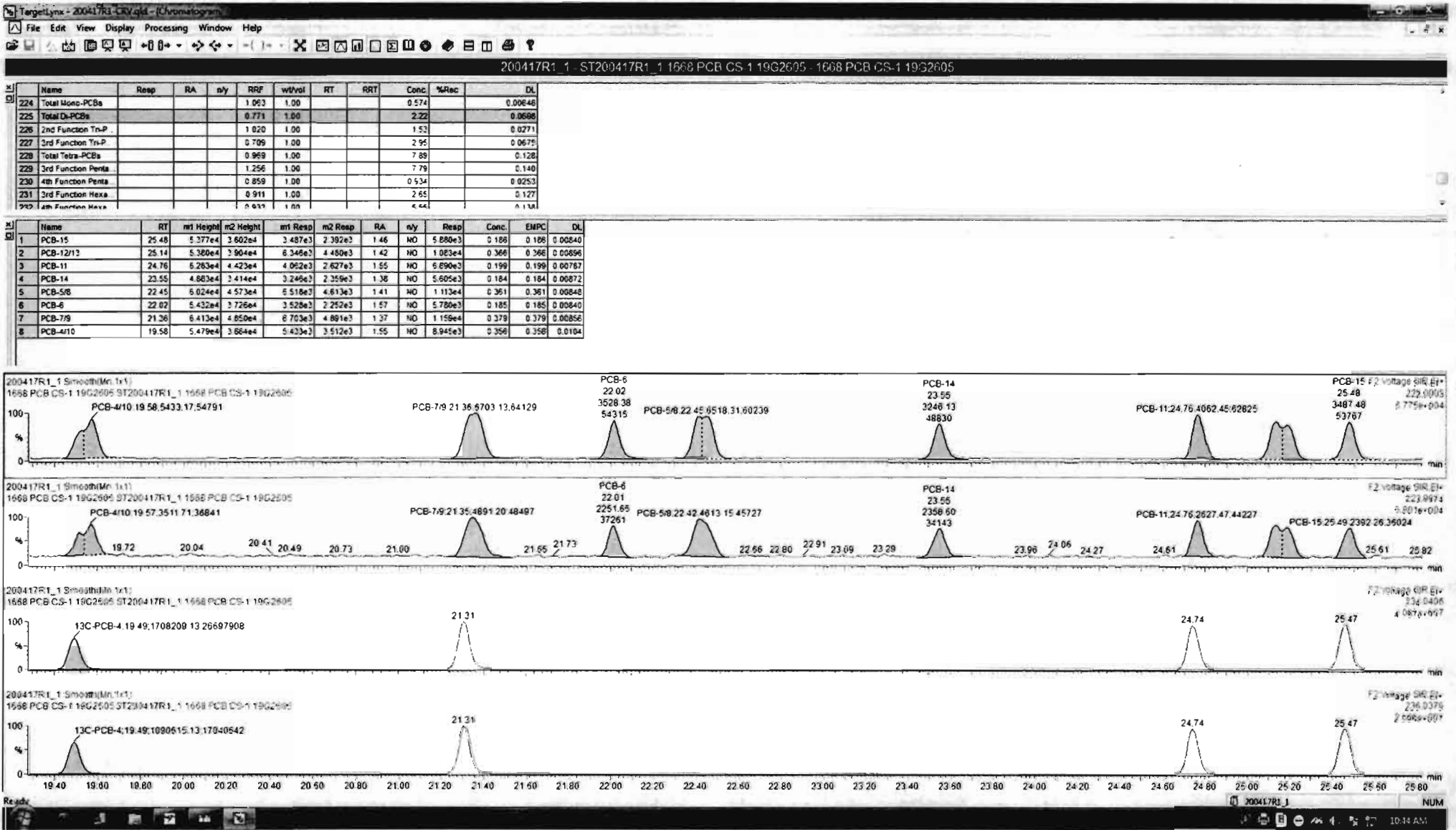


**13C-PCB-4**



**PFK2a**





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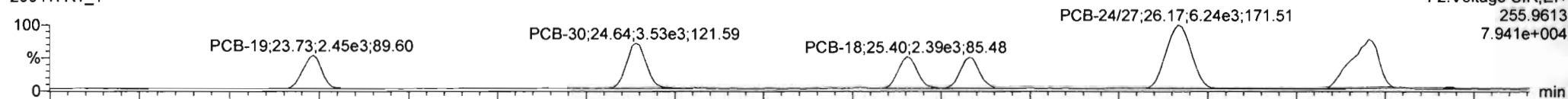
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

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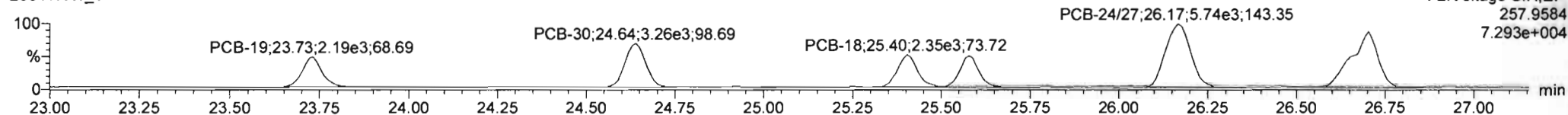
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**PCB-19**

200417R1\_1

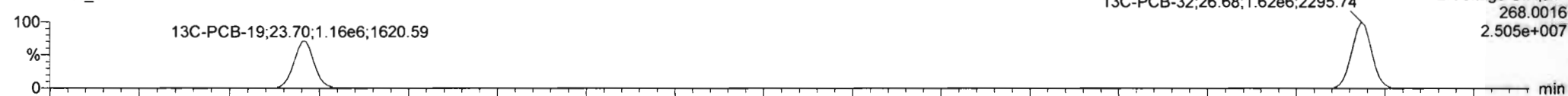


200417R1\_1

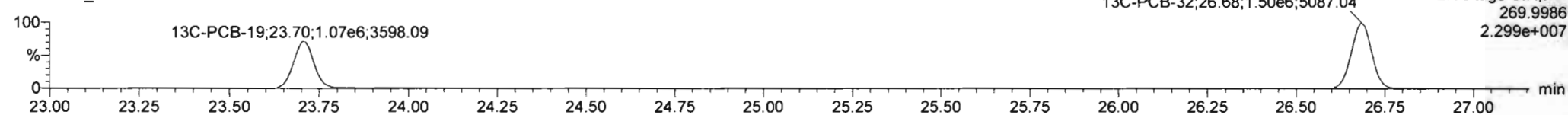


**13C-PCB-19**

200417R1\_1

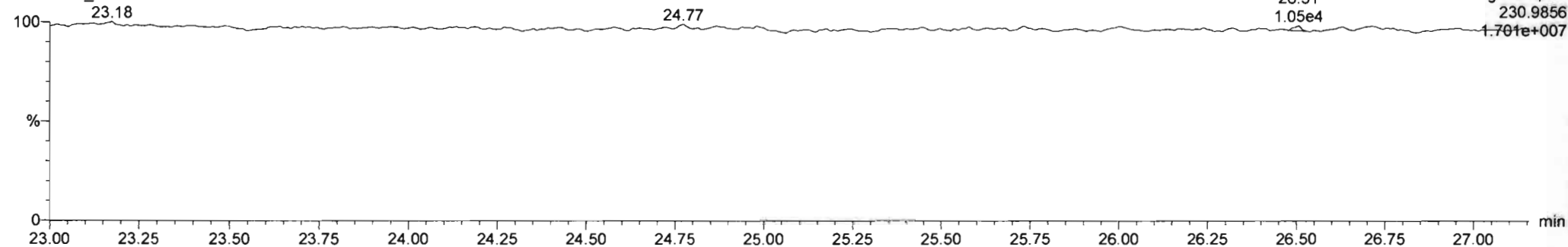


200417R1\_1



**PFK2b**

200417R1\_1



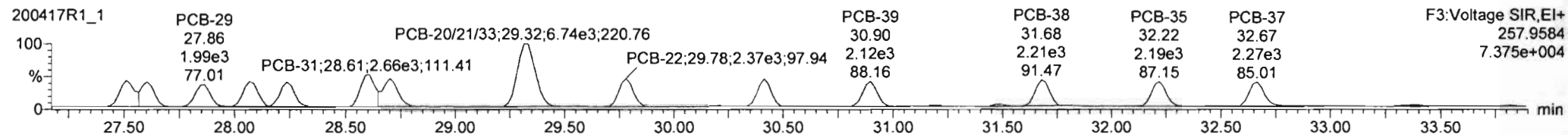
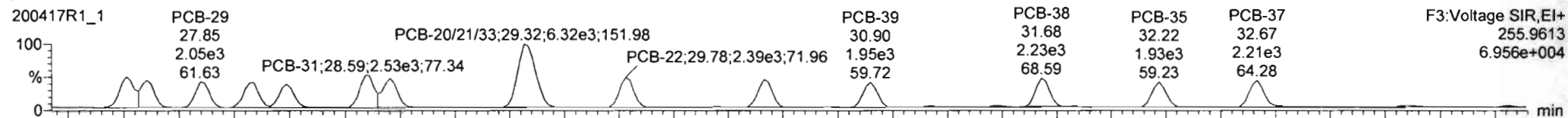
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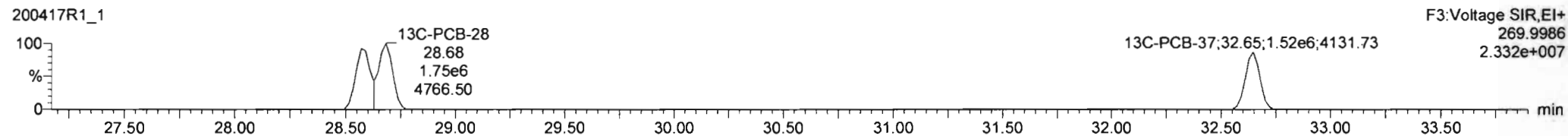
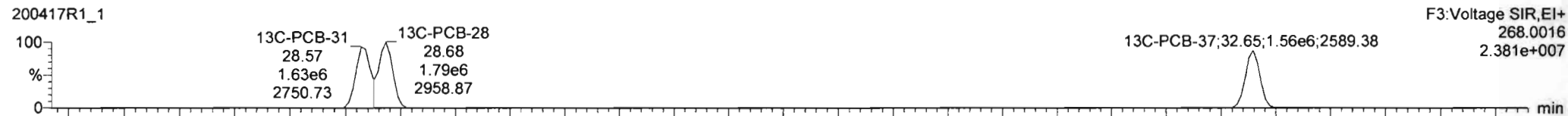
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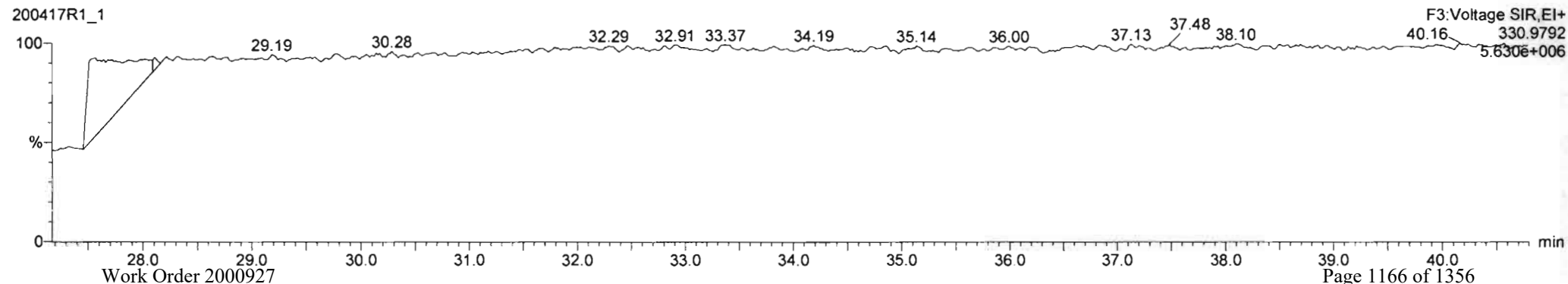
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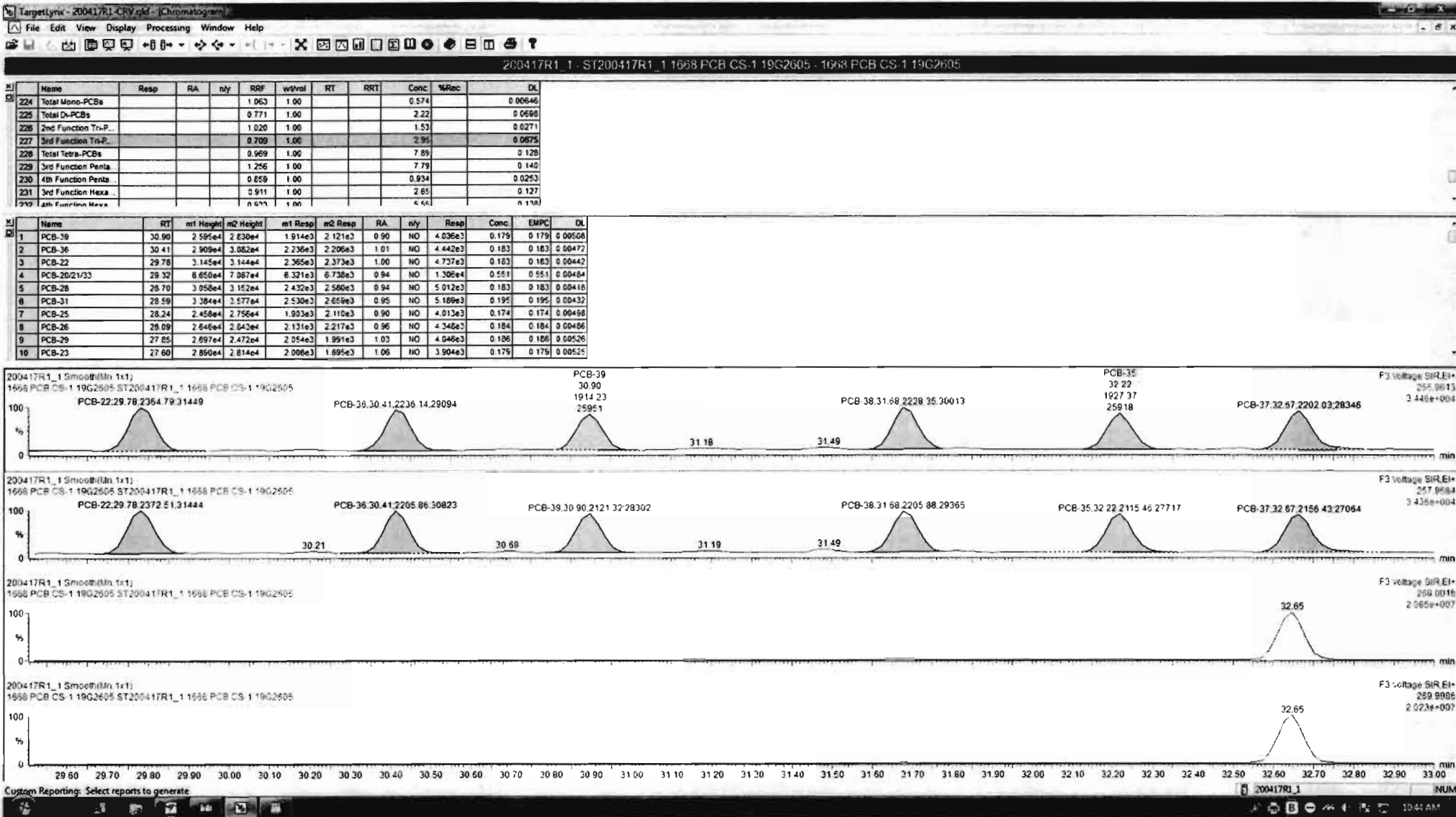


**13C-PCB-28**



**PFK3a**





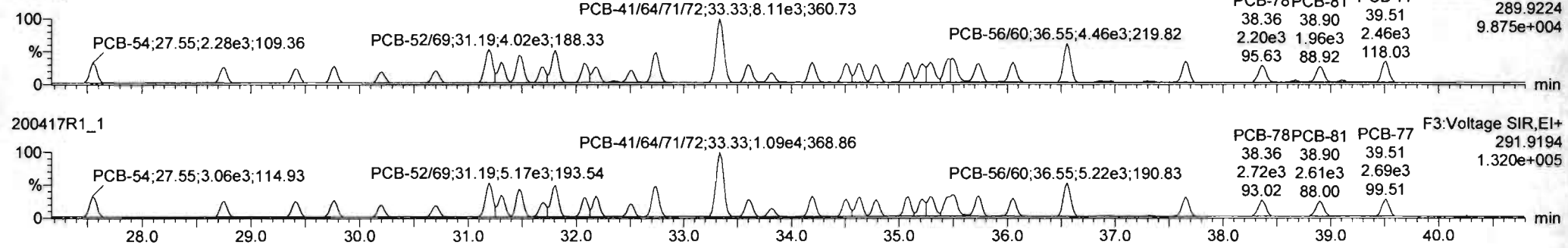
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

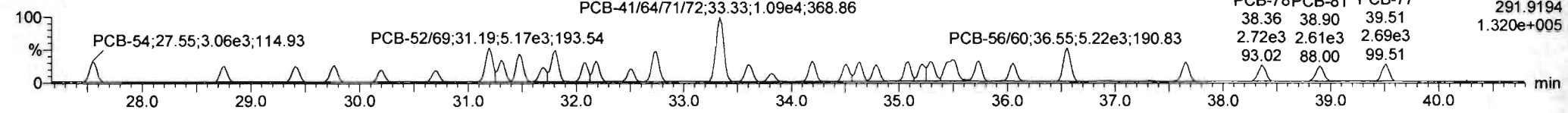
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**PCB-54**

200417R1\_1

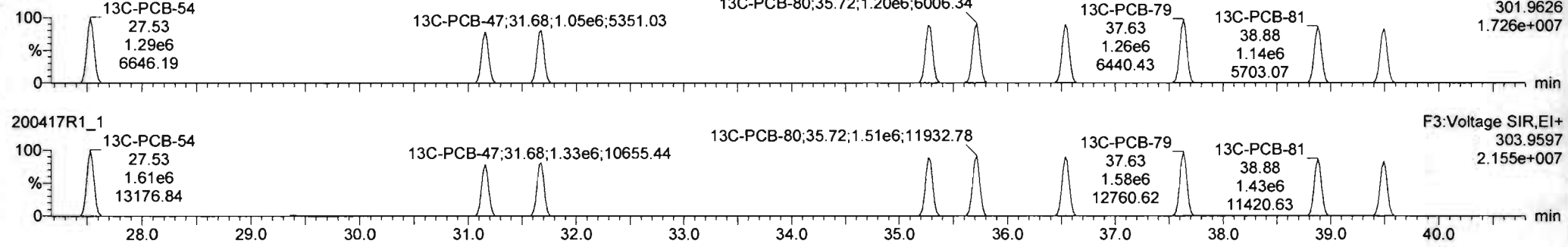


200417R1\_1

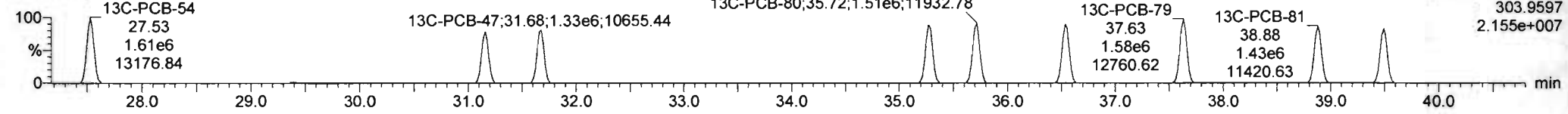


**13C-PCB-54**

200417R1\_1

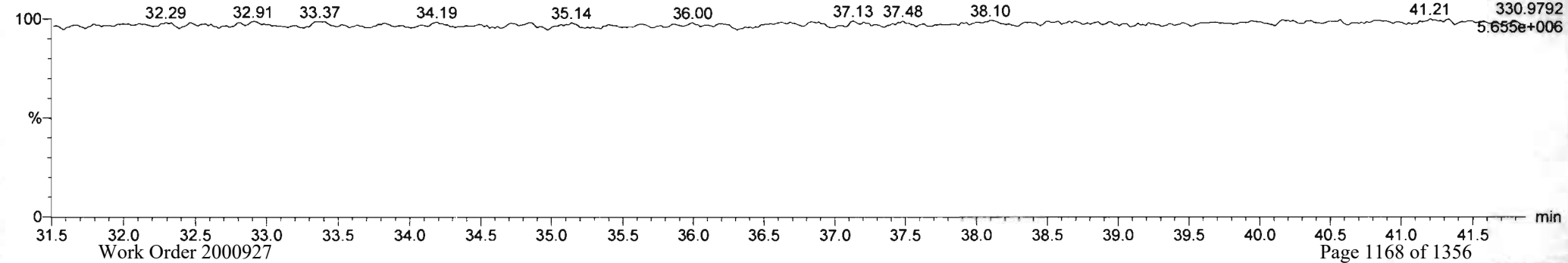


200417R1\_1



**PFK3b**

200417R1\_1





Dataset: Untitled

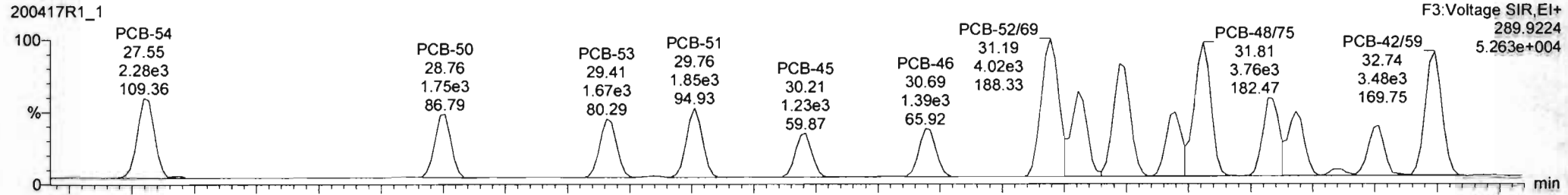
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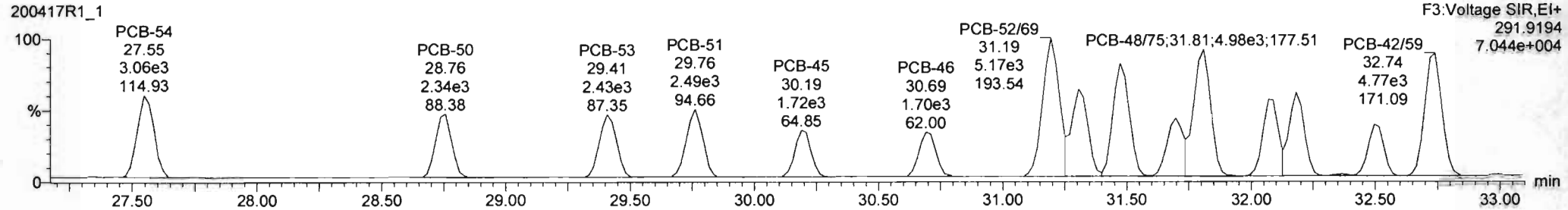
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PCB-50

200417R1\_1

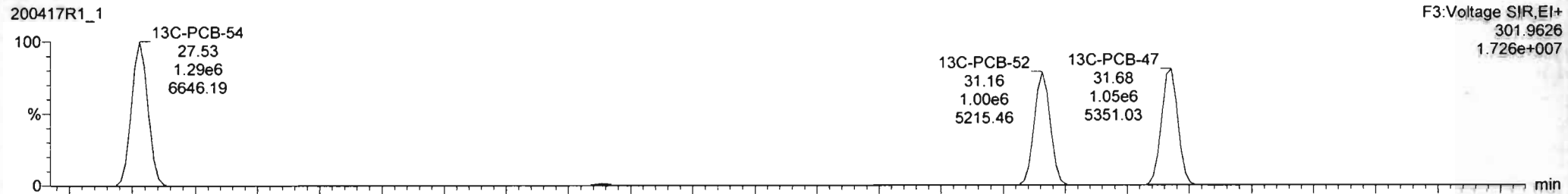


200417R1\_1

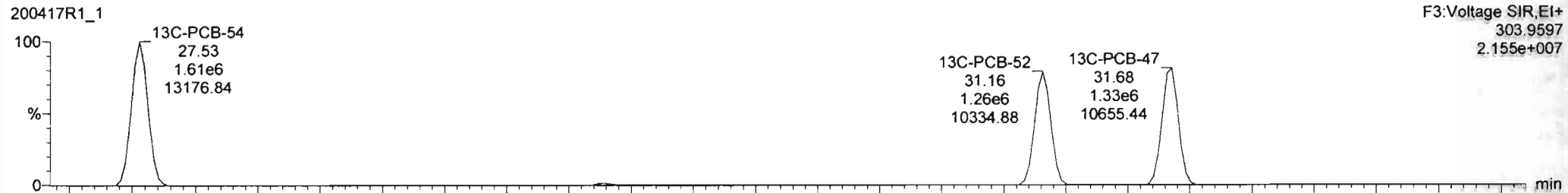


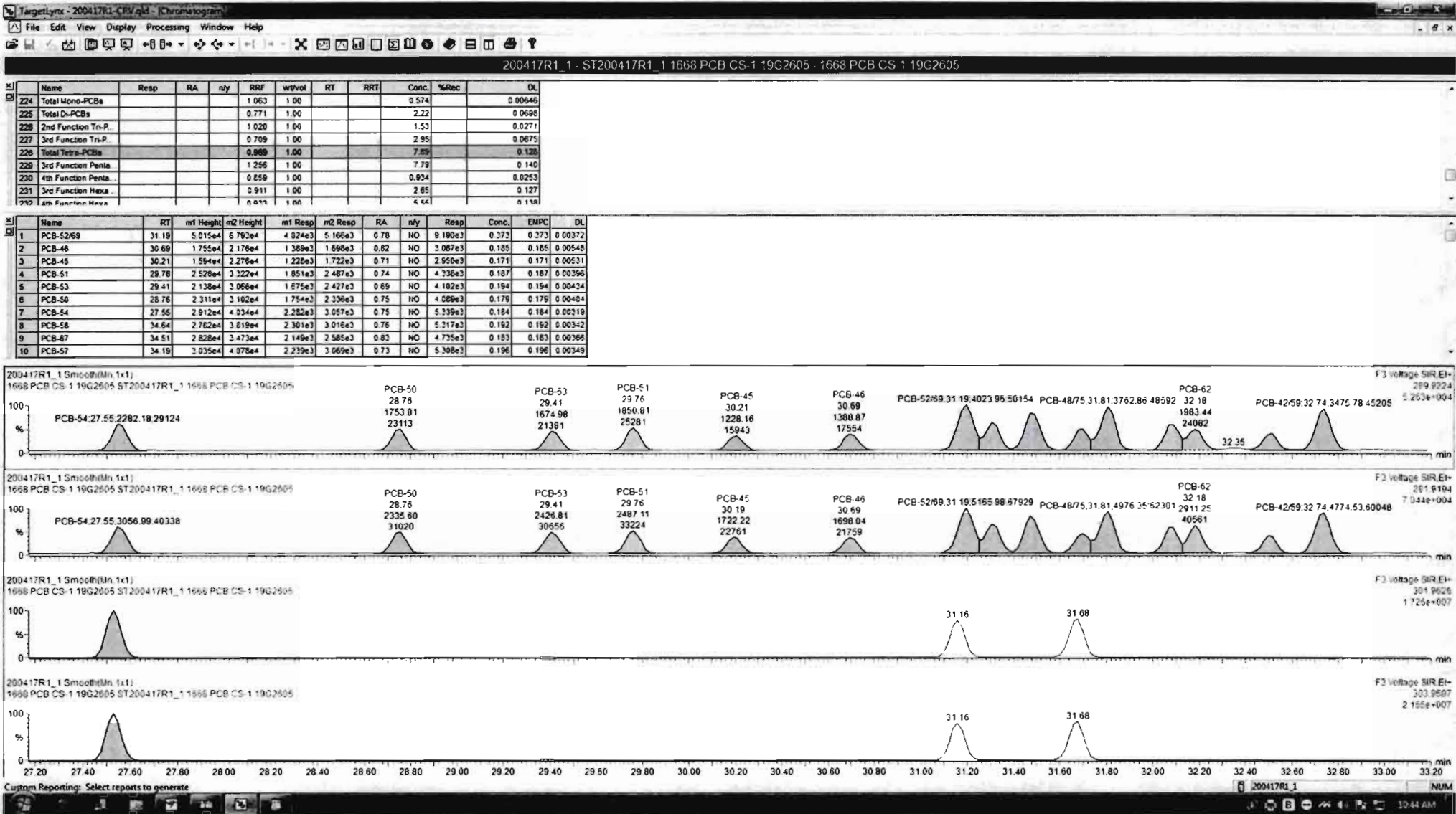
13C-PCB-52

200417R1\_1



200417R1\_1





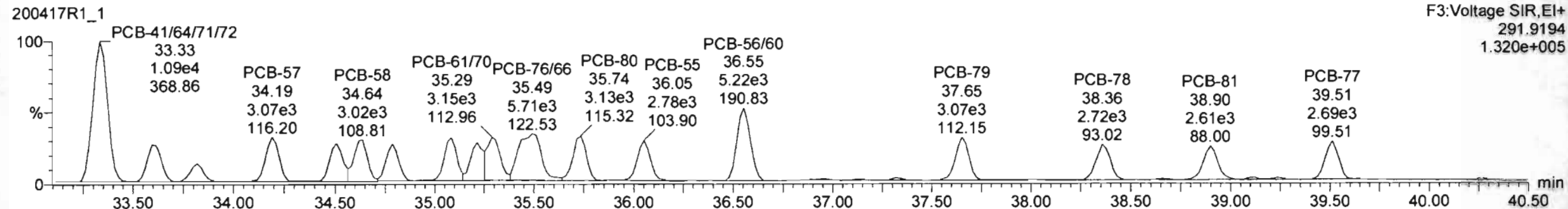
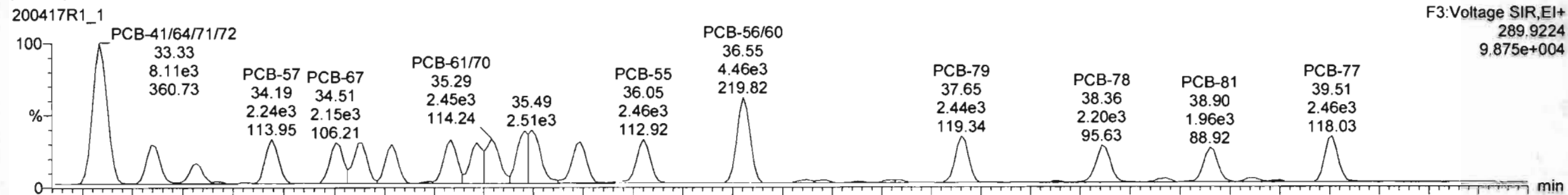
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

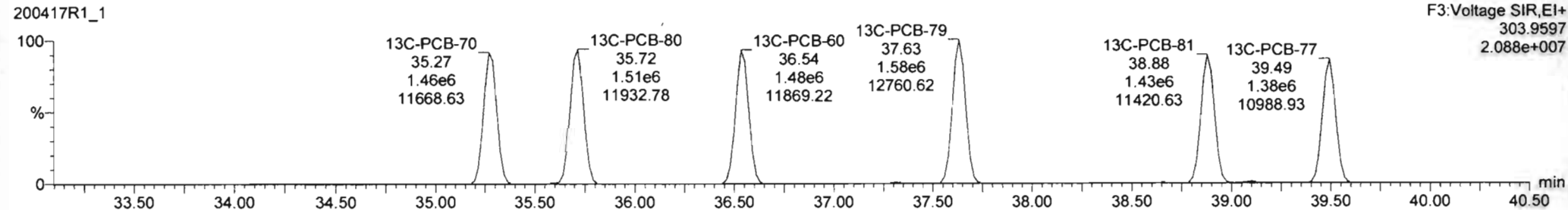
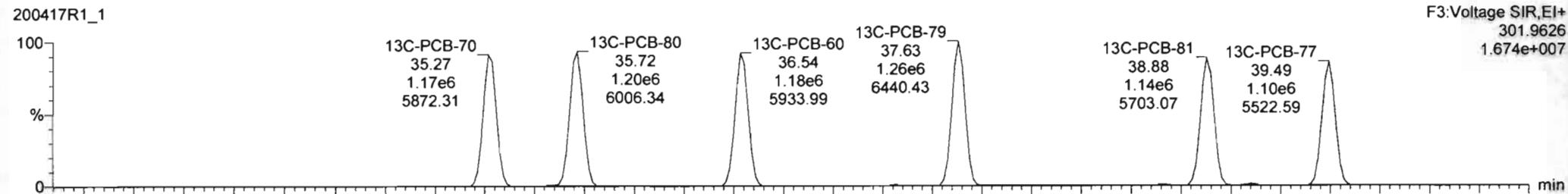
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

PCB-68

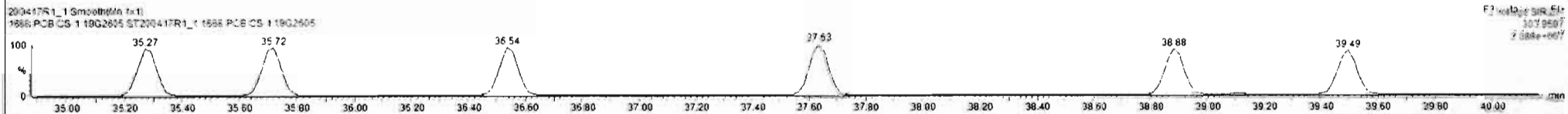
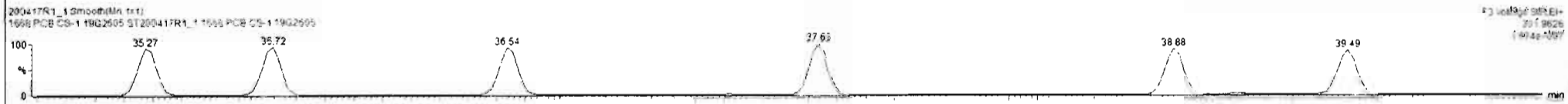
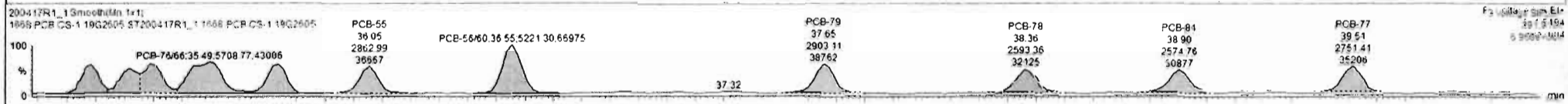
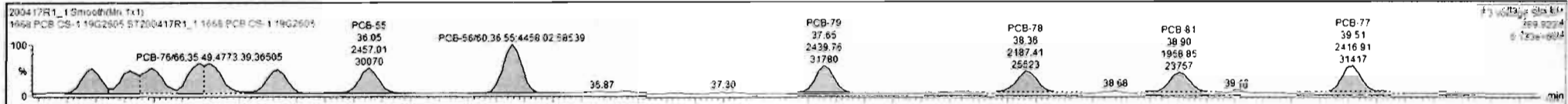


13C-PCB-60



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL
224 Total Mono-PCBs				1.063	1.00			0.574		0.00646
225 Total Di-PCBs				0.771	1.00			2.22		0.0698
226 2nd Function Tri-P.				1.020	1.00			1.53		0.0271
227 3rd Function Tri-P.				0.709	1.00			2.95		0.0675
228 Total Tetra-PCBs				0.989	1.00			7.83		0.128
229 3rd Function Penta				1.256	1.00			7.79		0.140
230 4th Function Penta				0.659	1.00			0.934		0.0253
231 3rd Function Hexa				0.911	1.00			2.65		0.127
232 4th Function Hexa				0.977	1.00			4.66		0.174

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-52/69	31.19	5.015e4	6.792e4	4.024e3	5.166e3	0.78	NO	9.190e3	0.372	0.372	0.00372
2 PCB-46	30.69	1.755e4	2.178e4	1.389e3	1.698e3	0.82	NO	3.087e3	0.185	0.185	0.00548
3 PCB-45	30.21	1.594e4	2.276e4	1.228e3	1.722e3	0.71	NO	2.950e3	0.171	0.171	0.00531
4 PCB-51	29.78	2.528e4	3.322e4	1.851e3	2.487e3	0.74	NO	4.338e3	0.187	0.187	0.00396
5 PCB-53	29.41	2.138e4	3.066e4	1.675e3	2.427e3	0.69	NO	4.102e3	0.194	0.194	0.00424
6 PCB-50	28.76	2.311e4	3.102e4	1.754e3	2.336e3	0.75	NO	4.089e3	0.179	0.179	0.00404
7 PCB-54	27.55	2.912e4	4.034e4	2.282e3	3.057e3	0.75	NO	5.339e3	0.184	0.184	0.00319
8 PCB-56	34.64	2.762e4	3.819e4	2.301e3	3.016e3	0.76	NO	5.317e3	0.192	0.192	0.00342
9 PCB-67	34.51	2.828e4	3.473e4	2.149e3	2.585e3	0.83	NO	4.735e3	0.183	0.183	0.00366
10 PCB-57	34.19	3.035e4	4.078e4	2.239e3	3.069e3	0.73	NO	5.308e3	0.196	0.196	0.00349



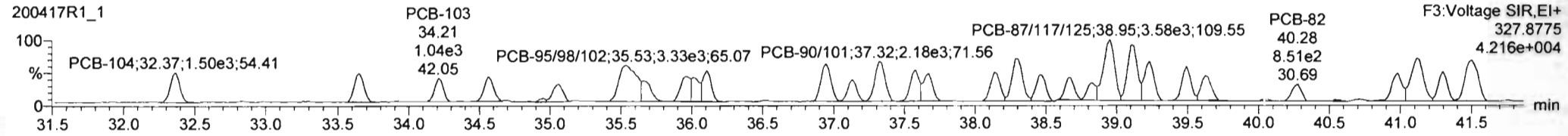
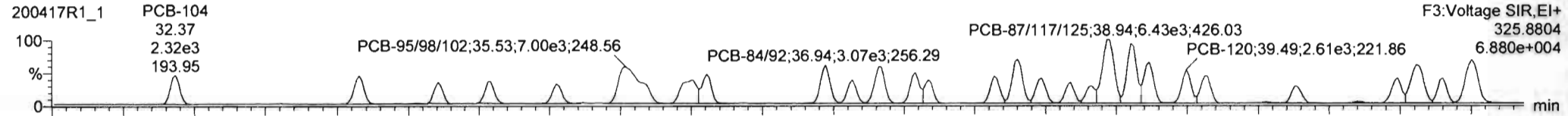
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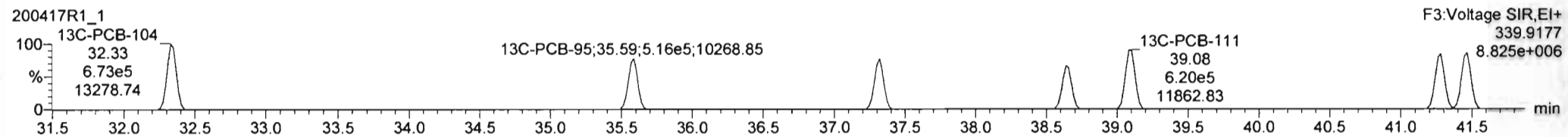
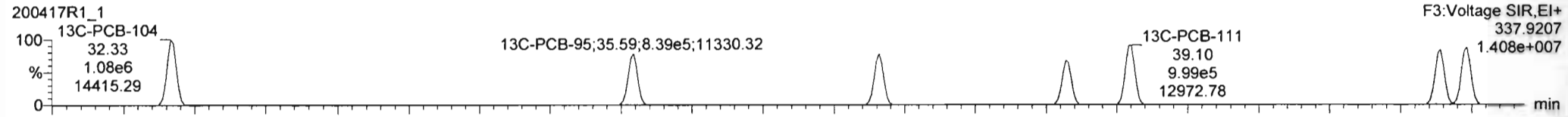
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Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

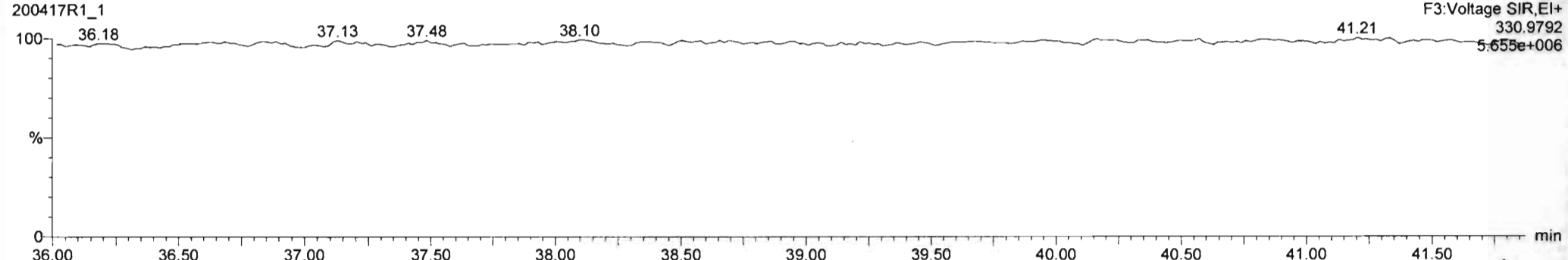
**PCB-104**



**13C-PCB-104**



**PFK3c**



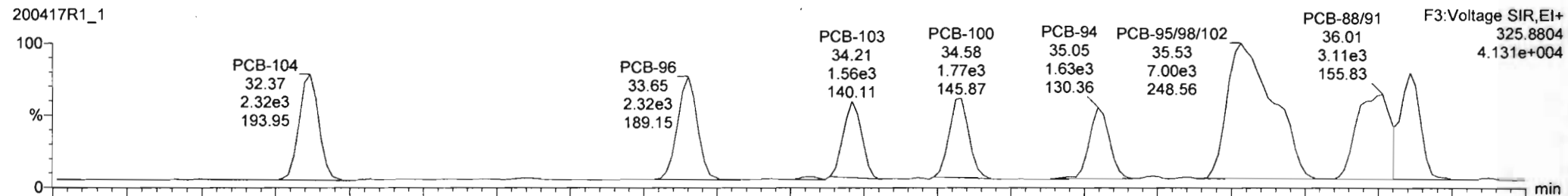
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

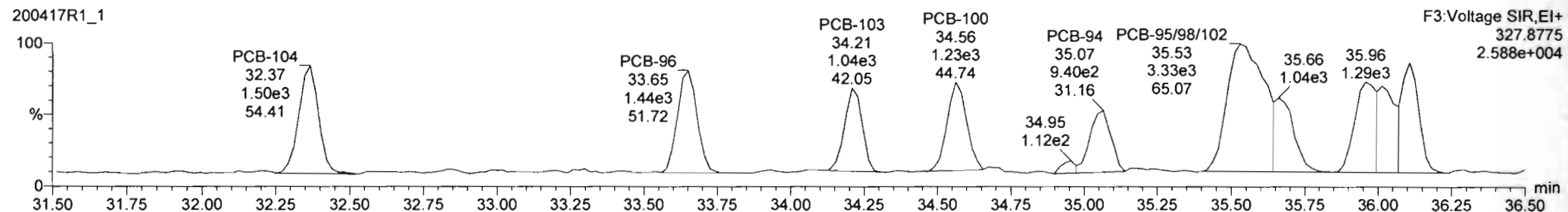
Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

**PCB-96**

200417R1\_1

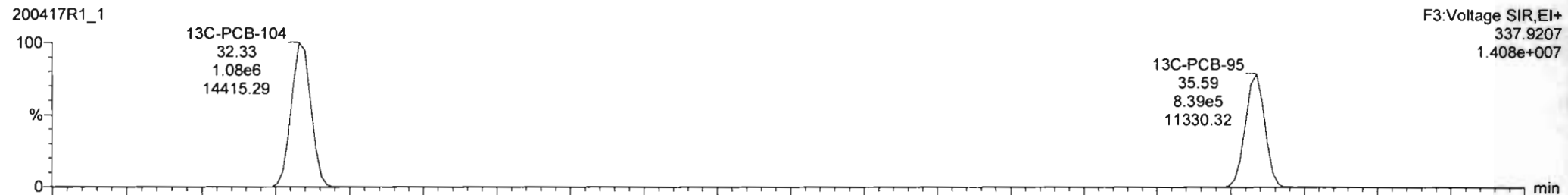


200417R1\_1

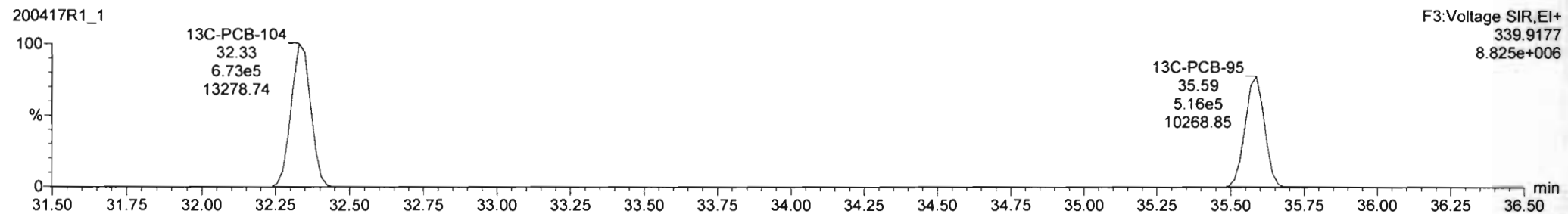


**13C-PCB-95**

200417R1\_1



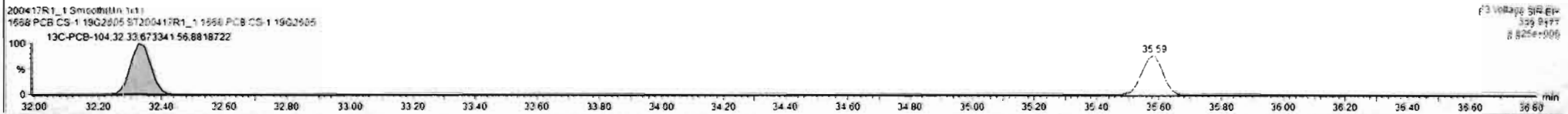
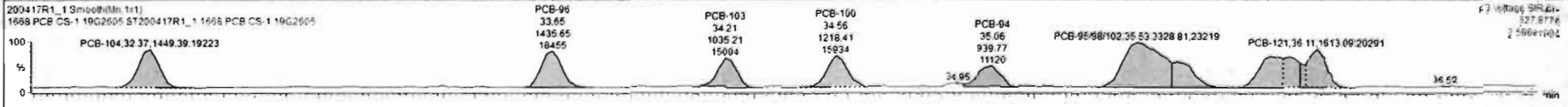
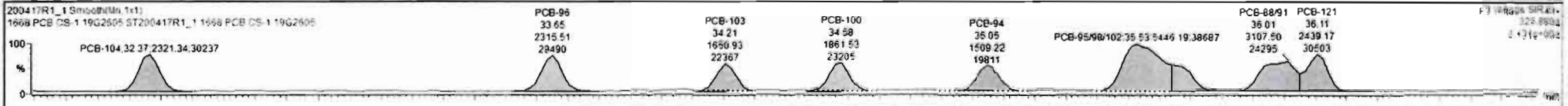
200417R1\_1



200417R1\_1 - ST200417R1\_1 1668 PCB CS 1 19G2605 - 1668 PCB CS 1 19G2605

Name	Resp	RA	n/y	RRF	wVvol	RT	RRT	Conc.	%Rec	DL
224 Total Mono-PCBs				1.063	1.00			0.574		0.00646
225 Total Di-PCBs				0.771	1.00			2.22		0.0698
226 2nd Function Tri-P				1.020	1.00			1.53		0.0271
227 3rd Function Tri-P				0.709	1.00			2.95		0.0675
228 Total Tetra-PCBs				0.969	1.00			7.89		0.128
229 3rd Function Penta				1.256	1.00			7.79		0.140
230 4th Function Penta				0.859	1.00			0.934		0.0253
231 3rd Function Hexa				0.911	1.00			2.65		0.127
232 4th Function Hexa				0.677	1.00			6.44		0.174

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-100	34.58	2.321e4	1.593e4	1.962e3	1.218e3	1.53	NO	3.080e3	0.195	0.195	0.00497
2 PCB-103	34.21	2.237e4	1.500e4	1.651e3	1.035e3	1.60	NO	2.686e3	0.178	0.178	0.00521
3 PCB-96	33.65	2.949e4	1.846e4	2.316e3	1.426e3	1.61	NO	3.751e3	0.190	0.190	0.00399
4 PCB-104	32.37	3.024e4	1.922e4	2.321e3	1.449e3	1.60	NO	3.771e3	0.189	0.189	0.00394
5 PCB-111/115	39.10	6.244e4	3.556e4	5.026e3	2.962e3	1.70	NO	7.988e3	0.376	0.376	0.00369
6 PCB-87/117/125	38.84	6.642e4	4.018e4	6.433e3	3.762e3	1.71	NO	1.020e4	0.567	0.567	0.00437
7 PCB-86	38.82	1.828e4	1.199e4	1.429e3	8.712e2	1.64	NO	2.300e3	0.175	0.175	0.00812
8 PCB-97	38.67	2.238e4	1.513e4	1.748e3	1.247e3	1.40	NO	2.995e3	0.203	0.203	0.00523
9 PCB-83	38.47	2.602e4	1.675e4	2.114e3	1.353e3	1.56	NO	3.468e3	0.177	0.177	0.00402
10 PCB-106/112	38.30	4.570e4	2.729e4	3.899e3	2.396e3	1.63	NO	6.296e3	0.385	0.385	0.00481



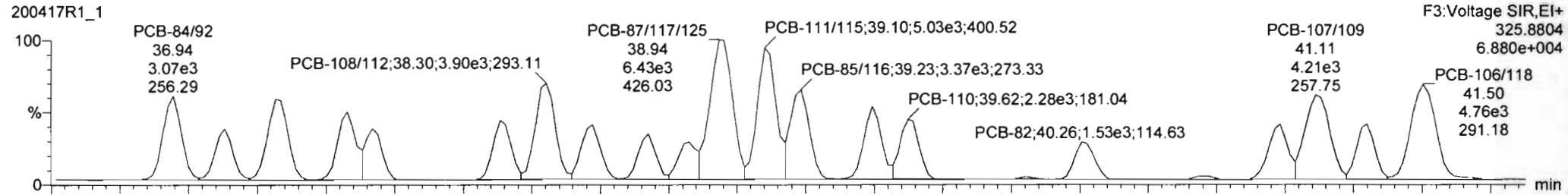
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

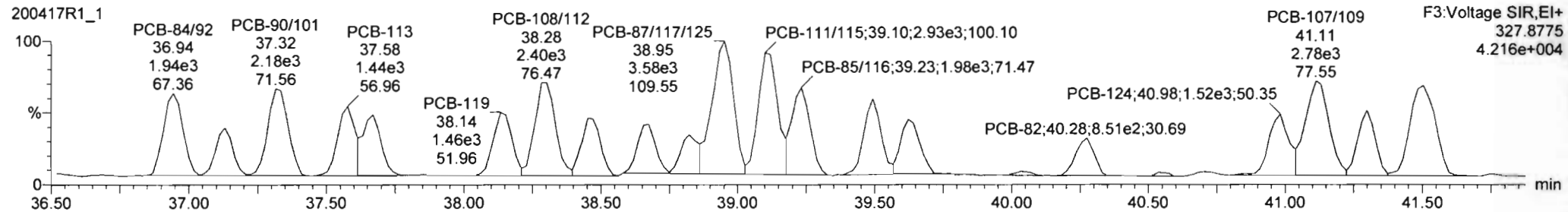
Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

PCB-119

200417R1\_1

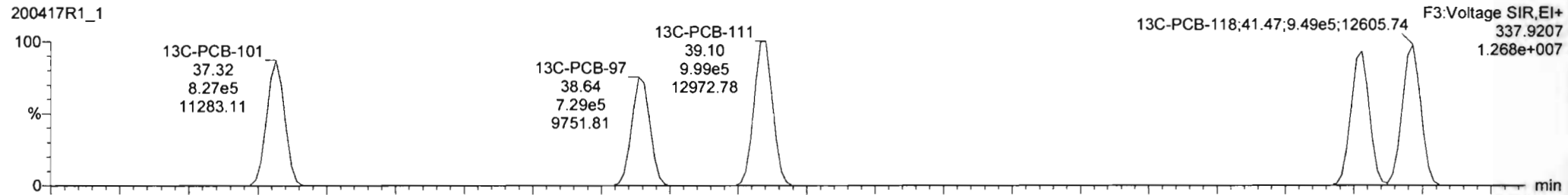


200417R1\_1

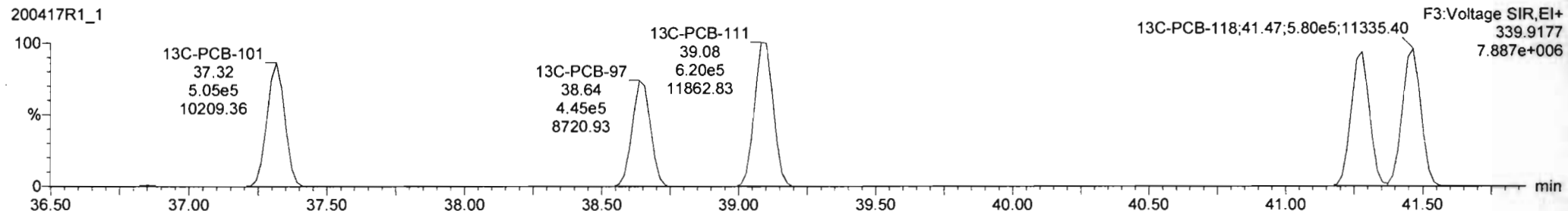


13C-PCB-111

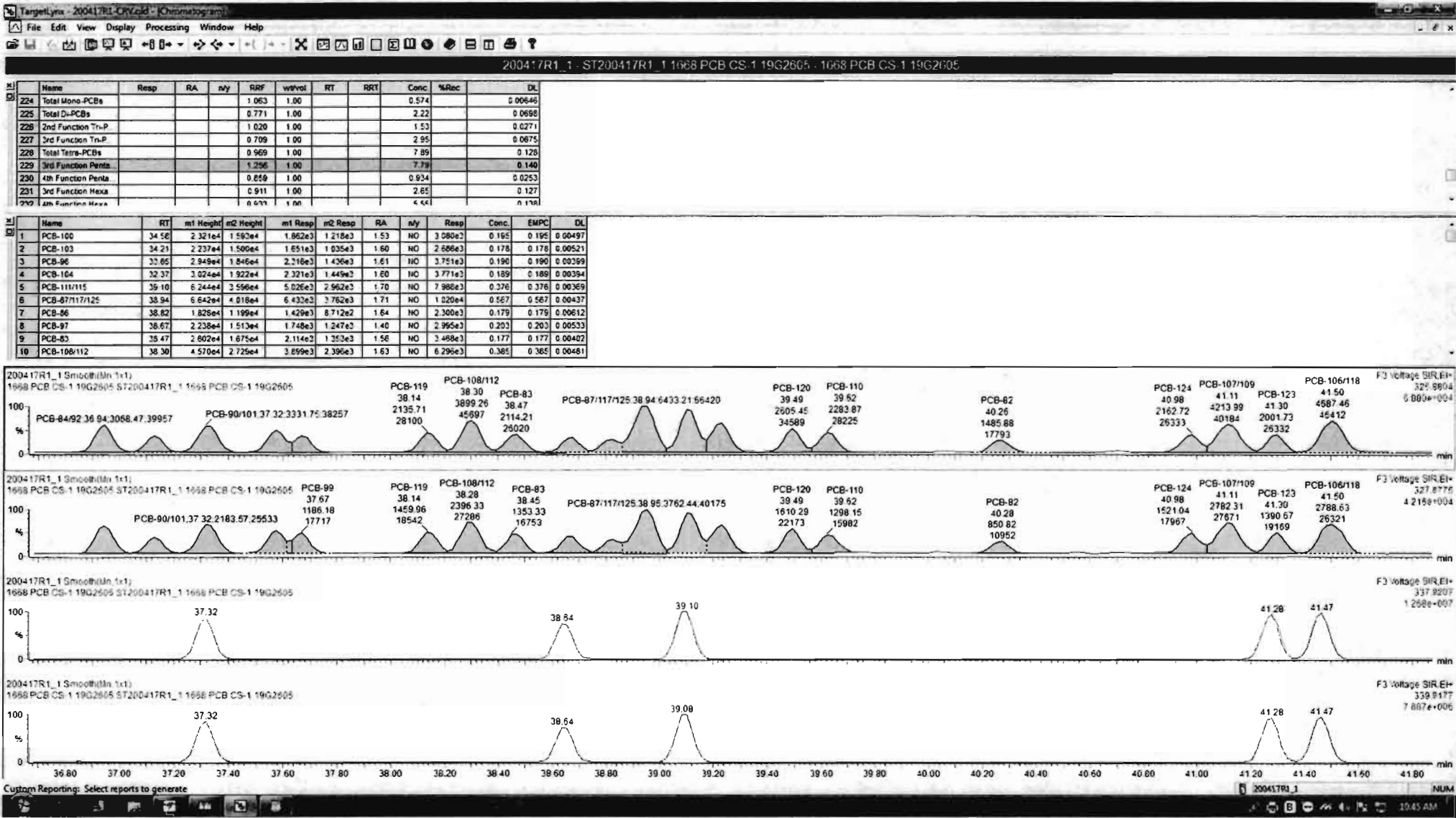
200417R1\_1



200417R1\_1







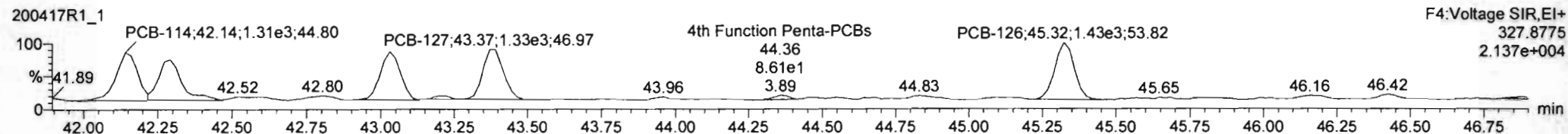
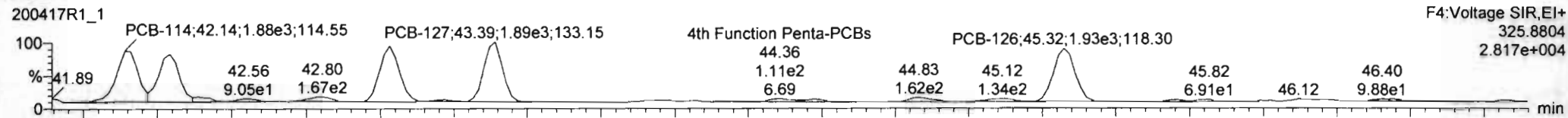
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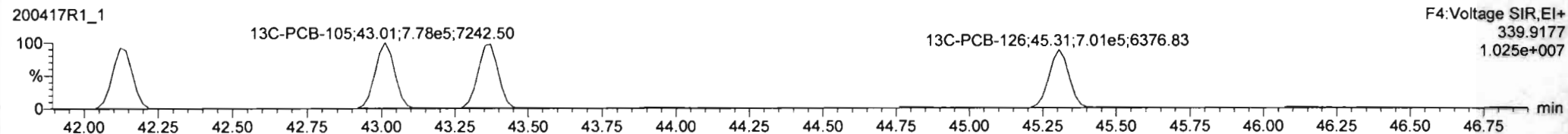
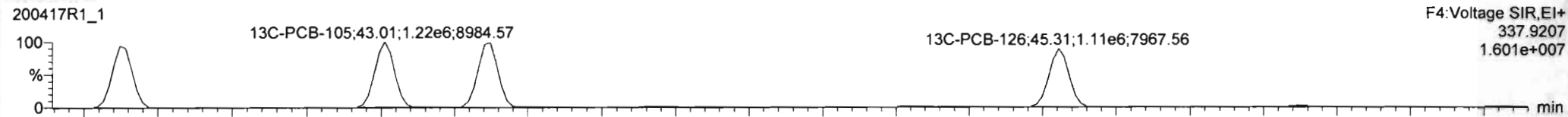
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Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

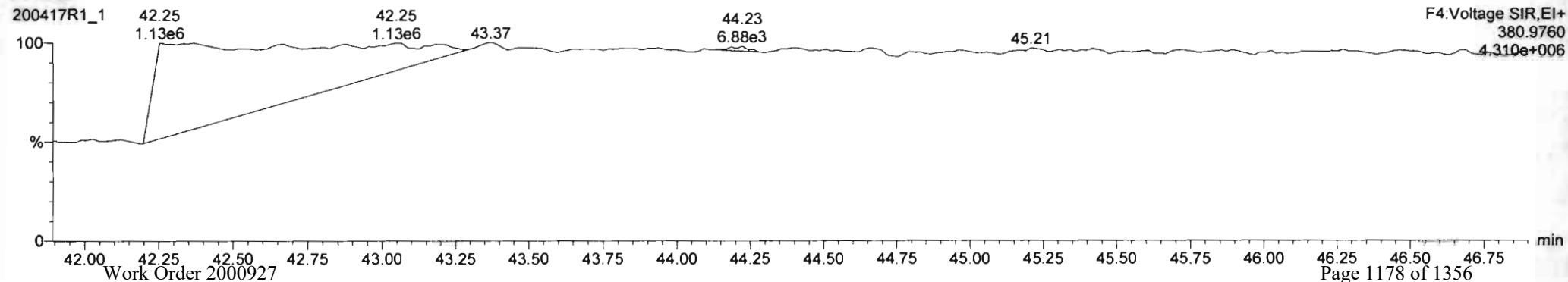
**PCB-114**

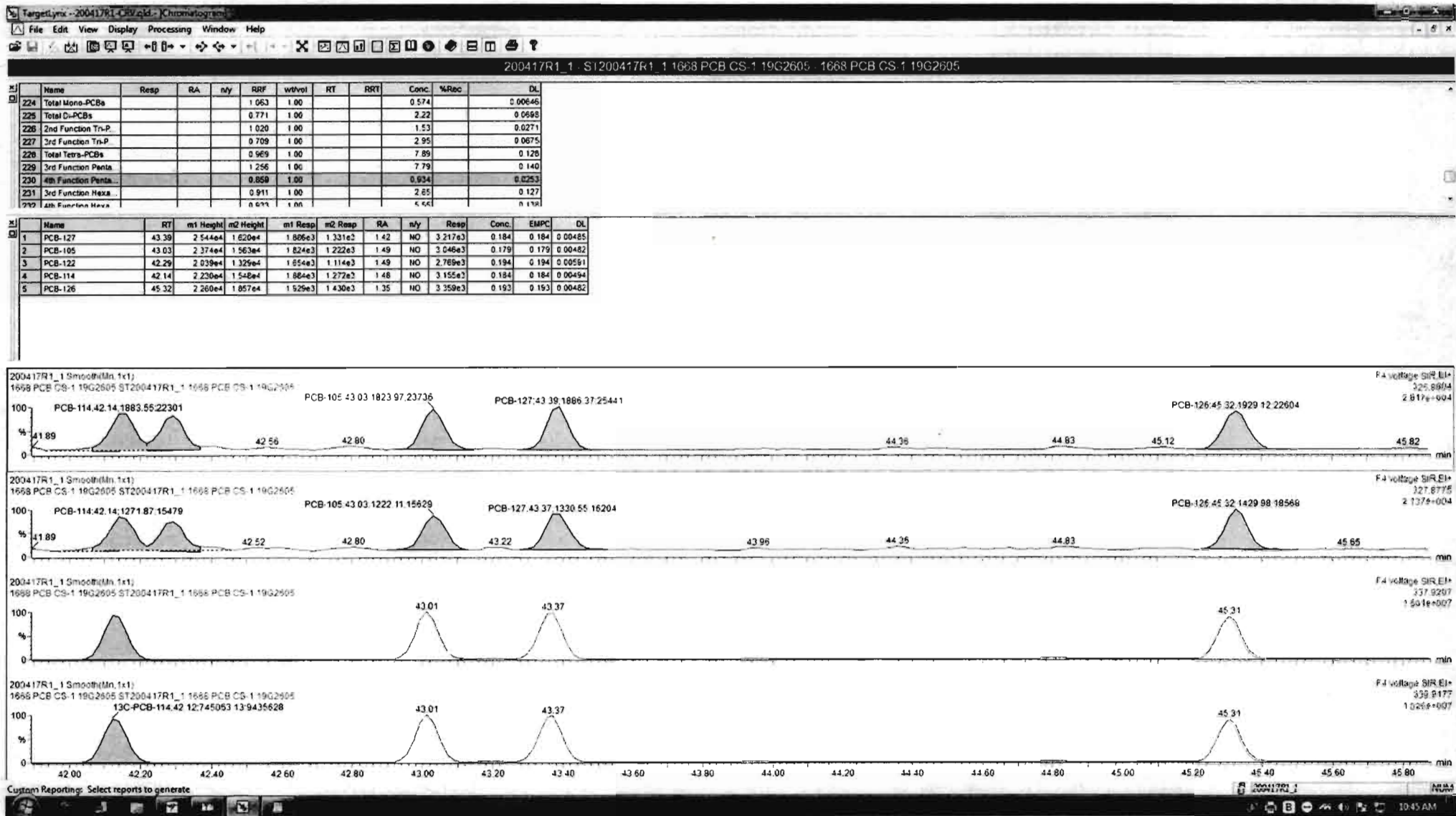


**13C-PCB-114**



**PFK4a**





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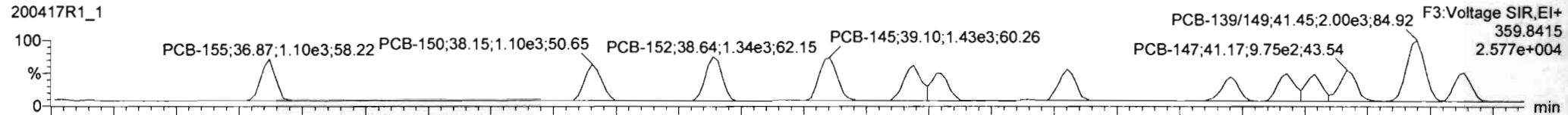
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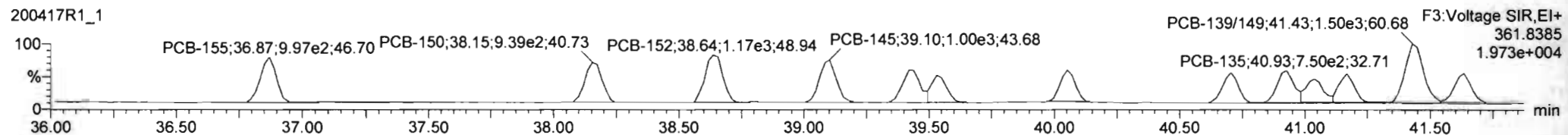
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**PCB-155**

200417R1\_1

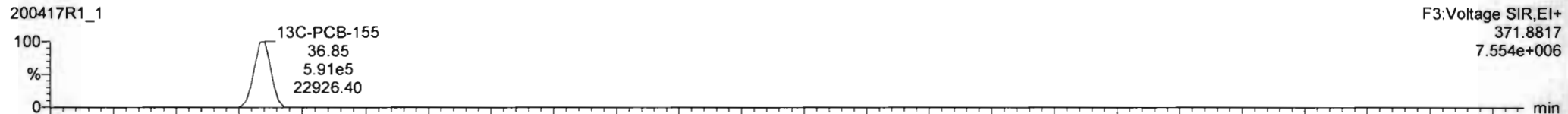


200417R1\_1

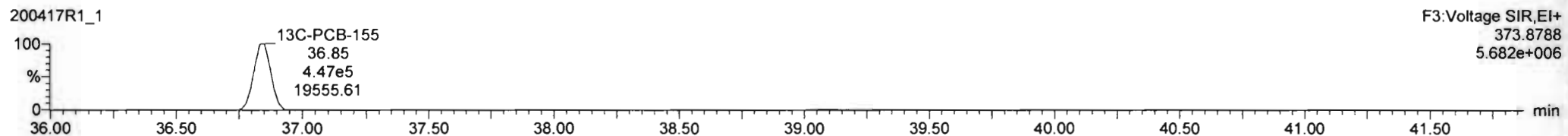


**13C-PCB-155**

200417R1\_1

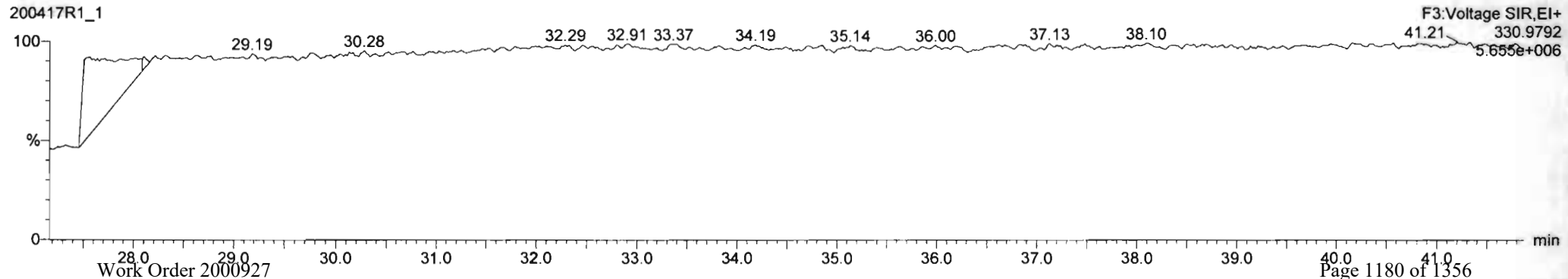


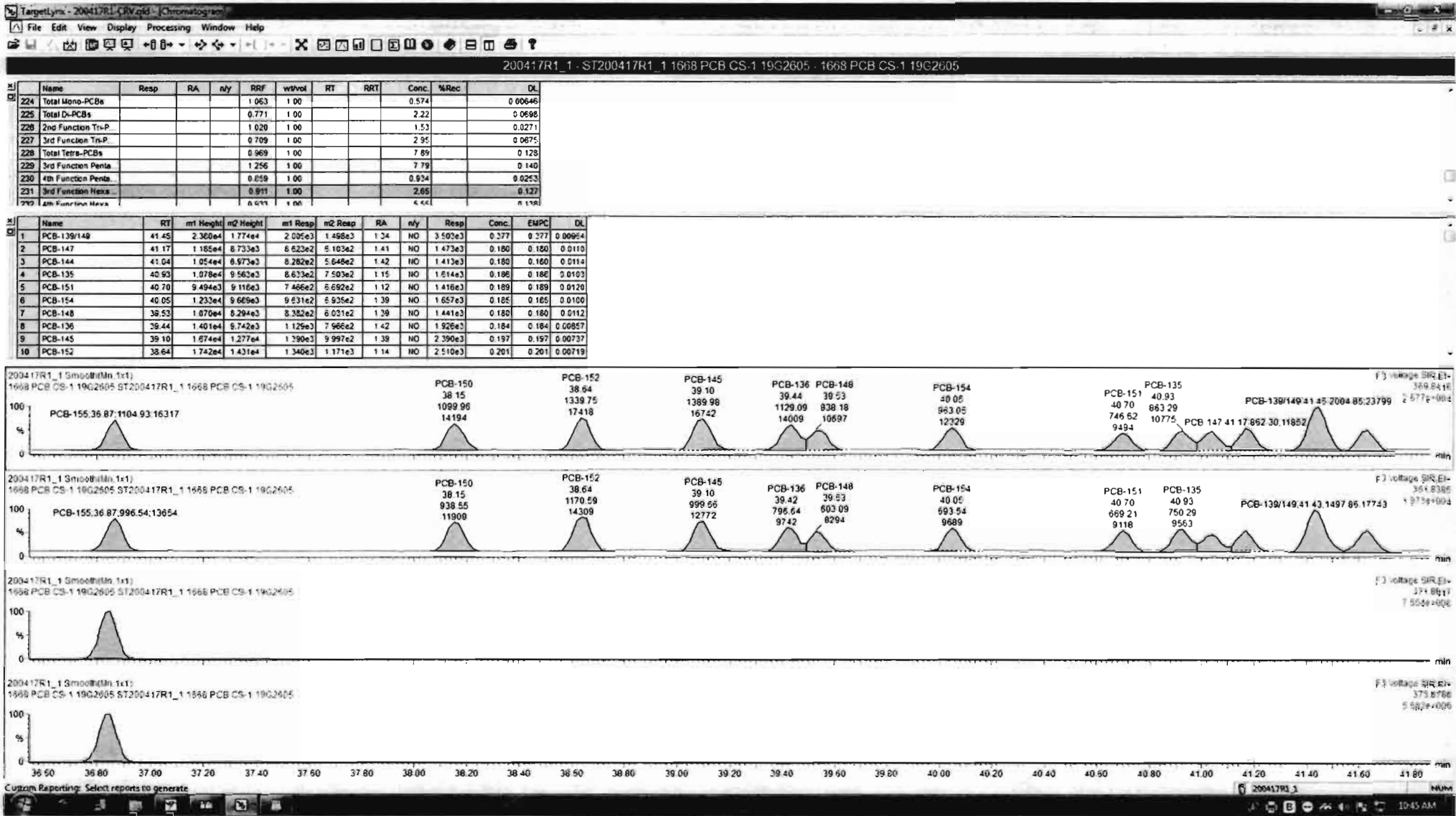
200417R1\_1



**PFK3d**

200417R1\_1





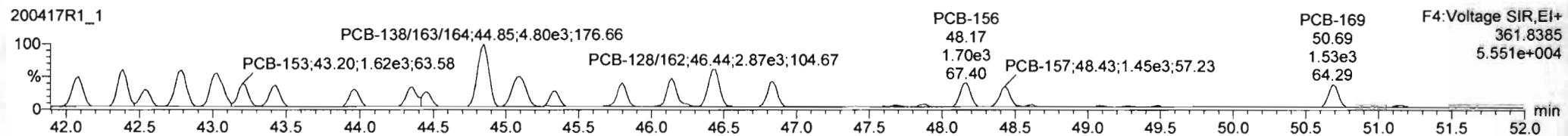
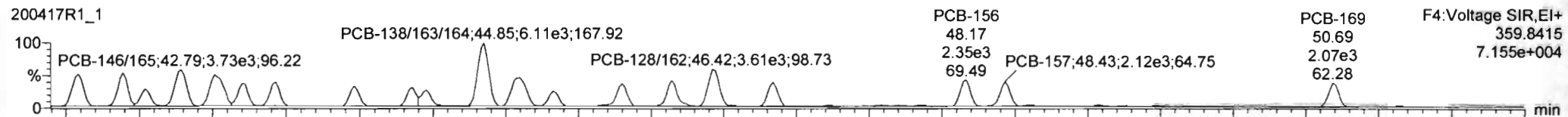
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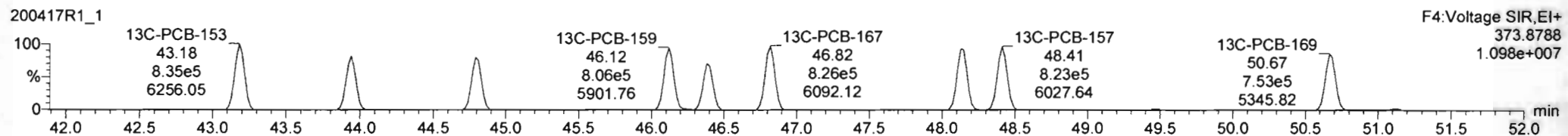
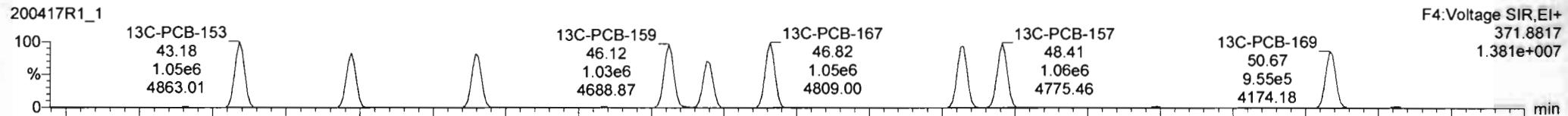
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Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

### PCB-134/143

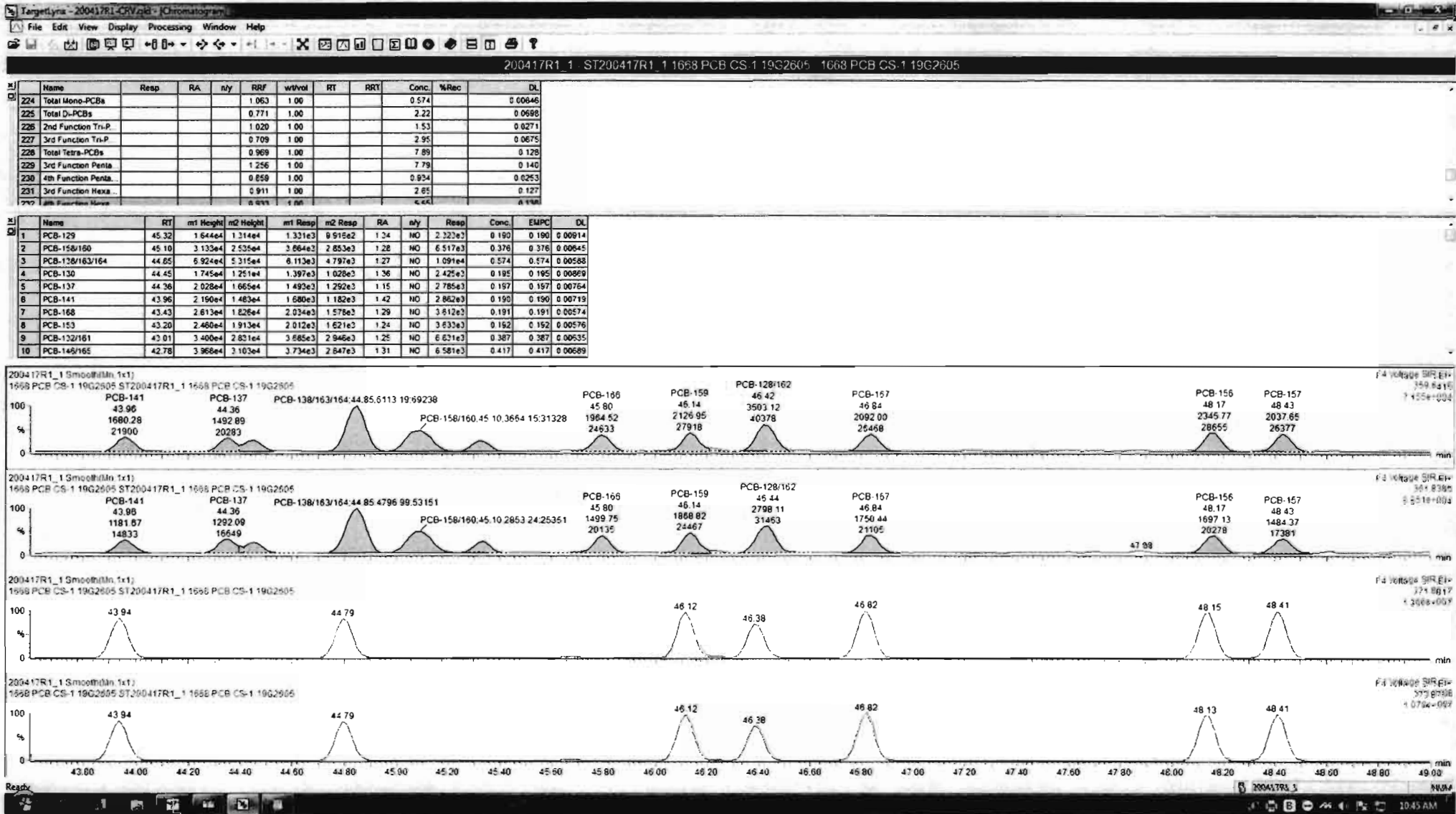


### 13C-PCB-153



### PFK4b





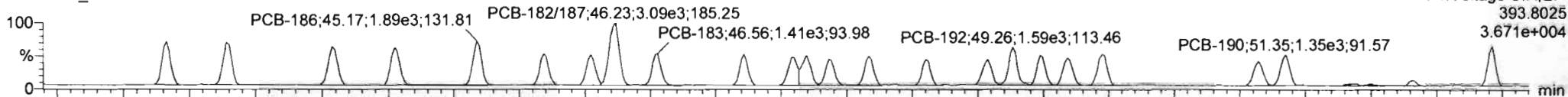
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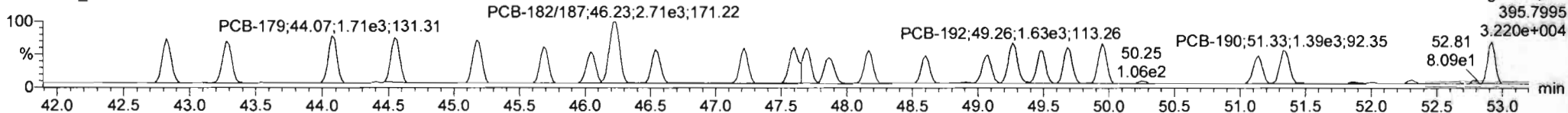
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**PCB-188**

200417R1\_1

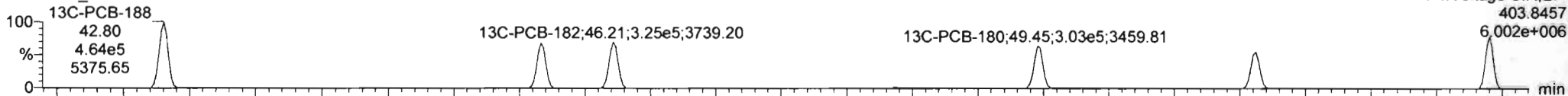


200417R1\_1

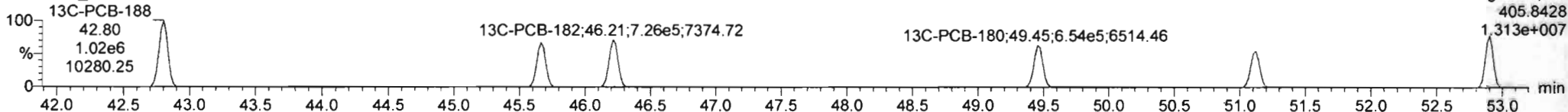


**13C-PCB-188**

200417R1\_1

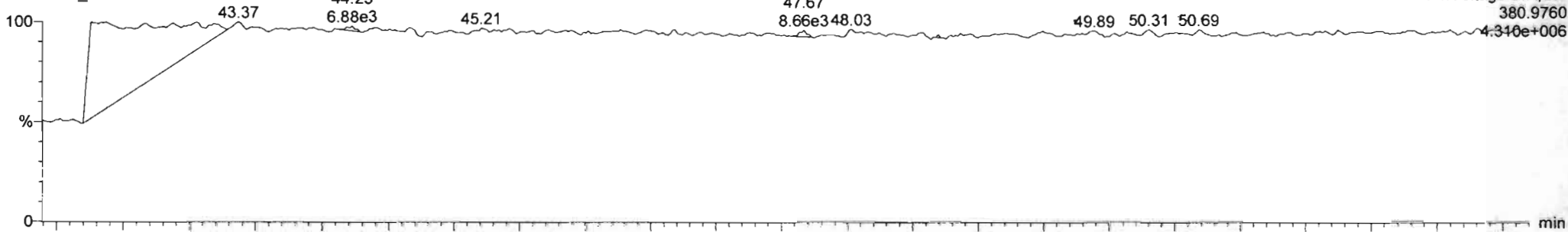


200417R1\_1

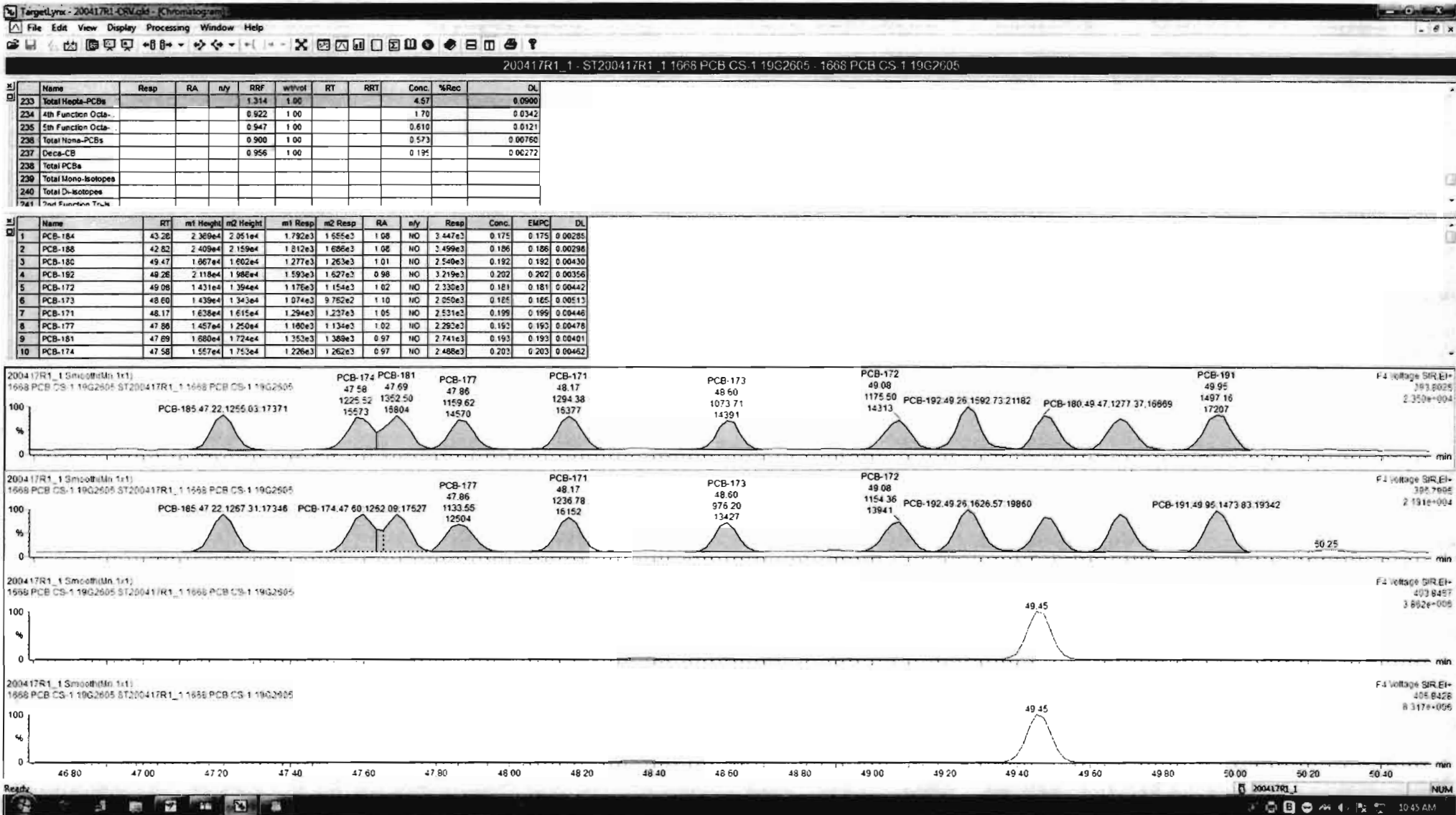


**PFK4c**

200417R1\_1







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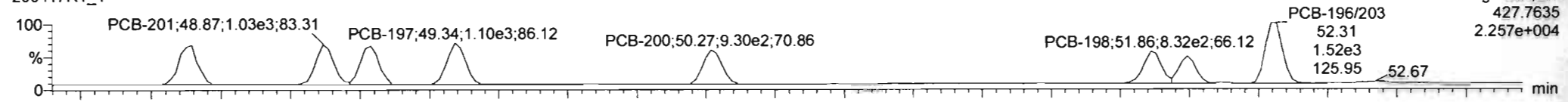
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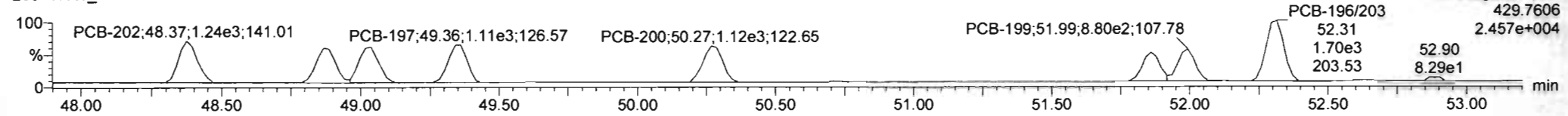
Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

**PCB-202**

200417R1\_1

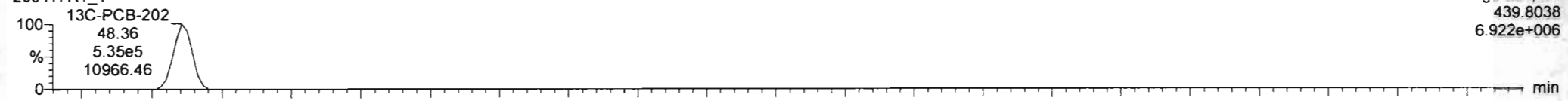


200417R1\_1

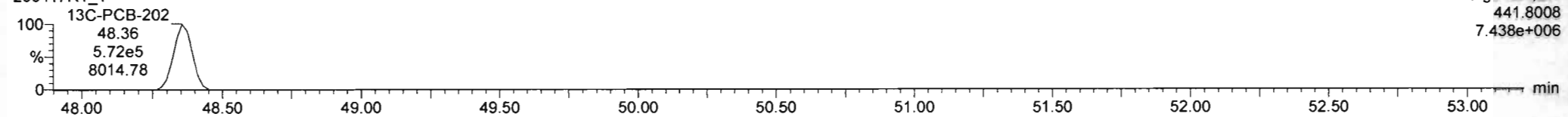


**13C-PCB-202**

200417R1\_1

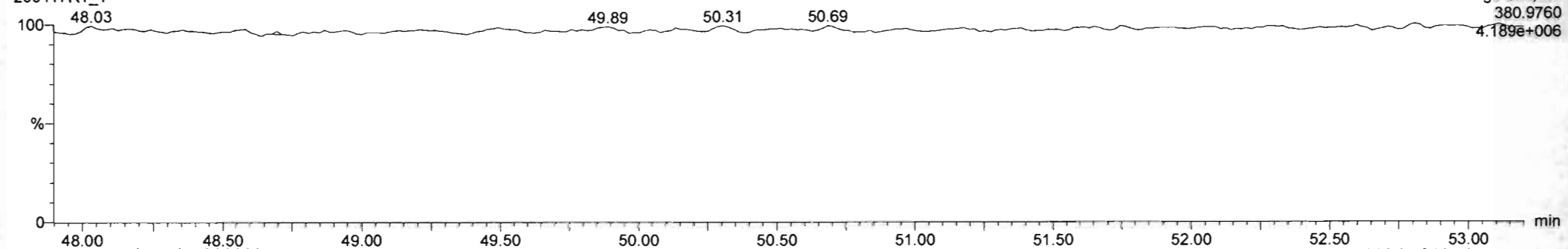


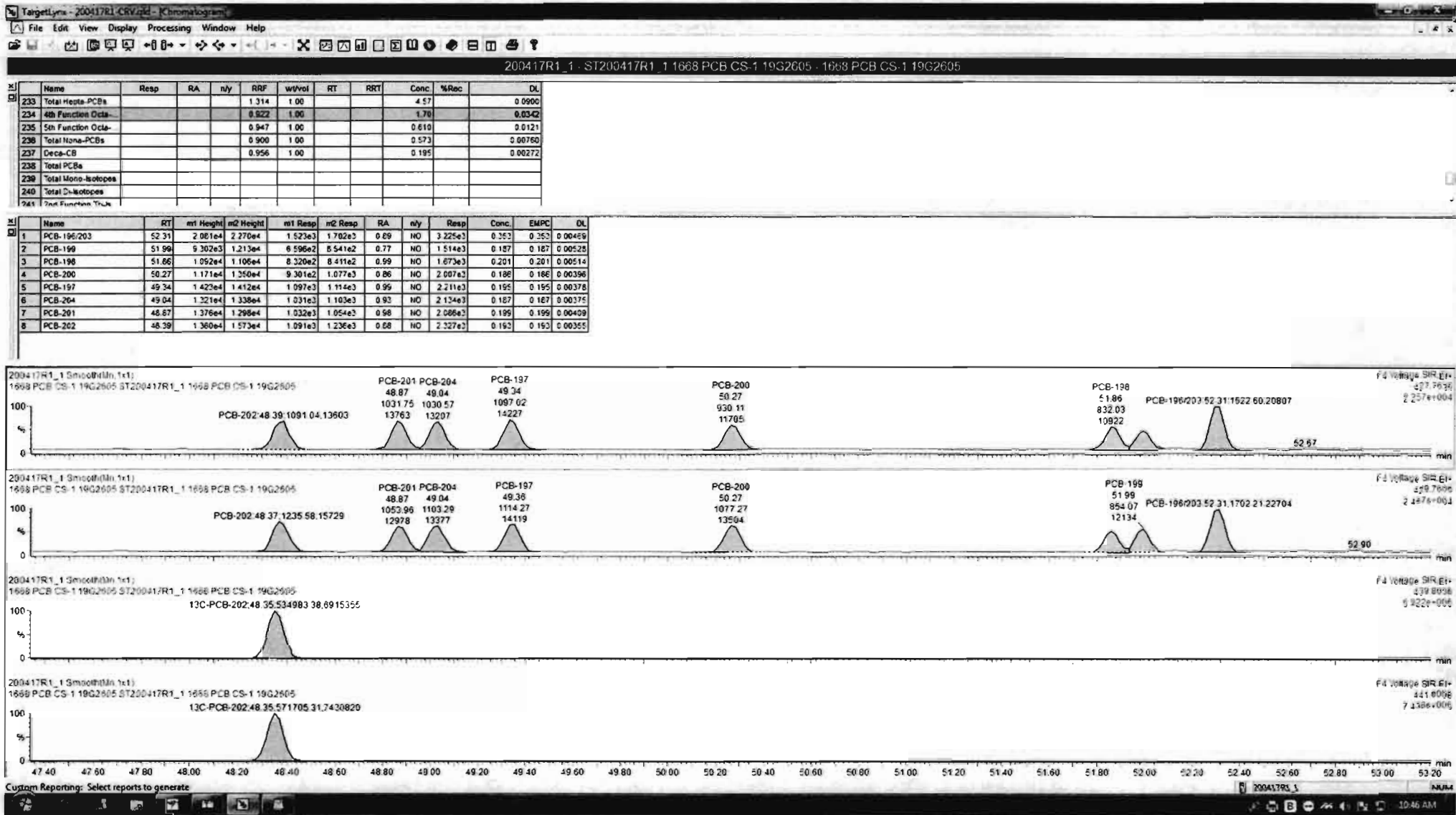
200417R1\_1



**PFK4d**

200417R1\_1





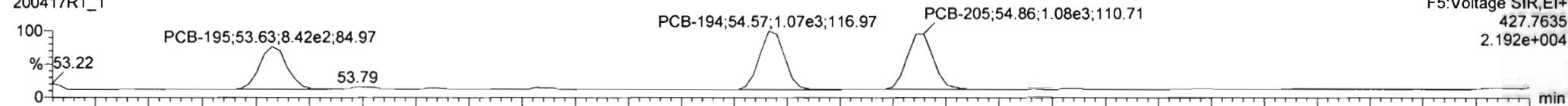
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

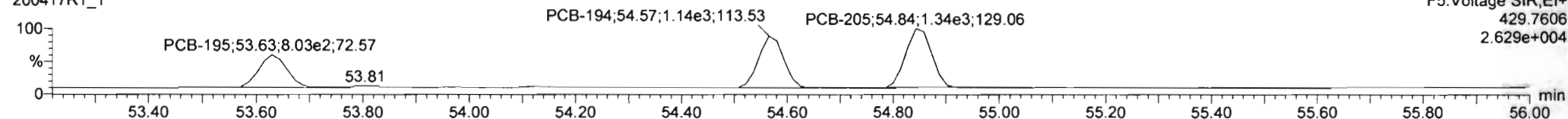
PCB-195

200417R1\_1



F5:Voltage SIR,EI+  
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2.192e+004

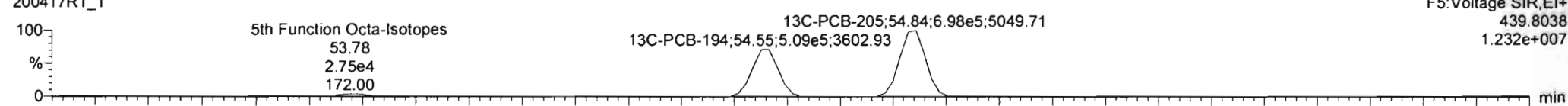
200417R1\_1



F5:Voltage SIR,EI+  
429.7606  
2.629e+004

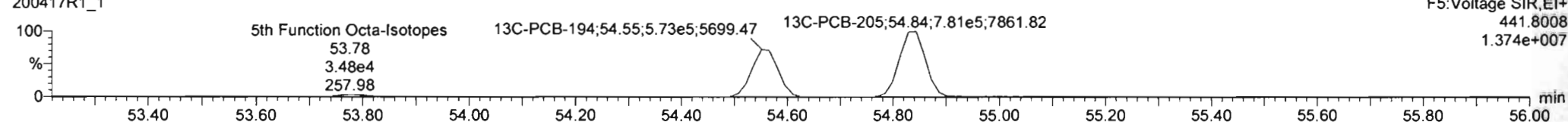
13C-PCB-194

200417R1\_1



F5:Voltage SIR,EI+  
439.8038  
1.232e+007

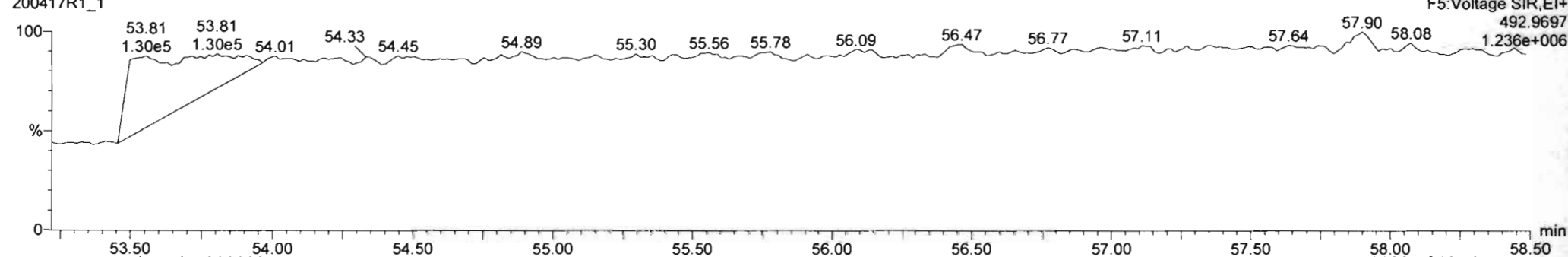
200417R1\_1



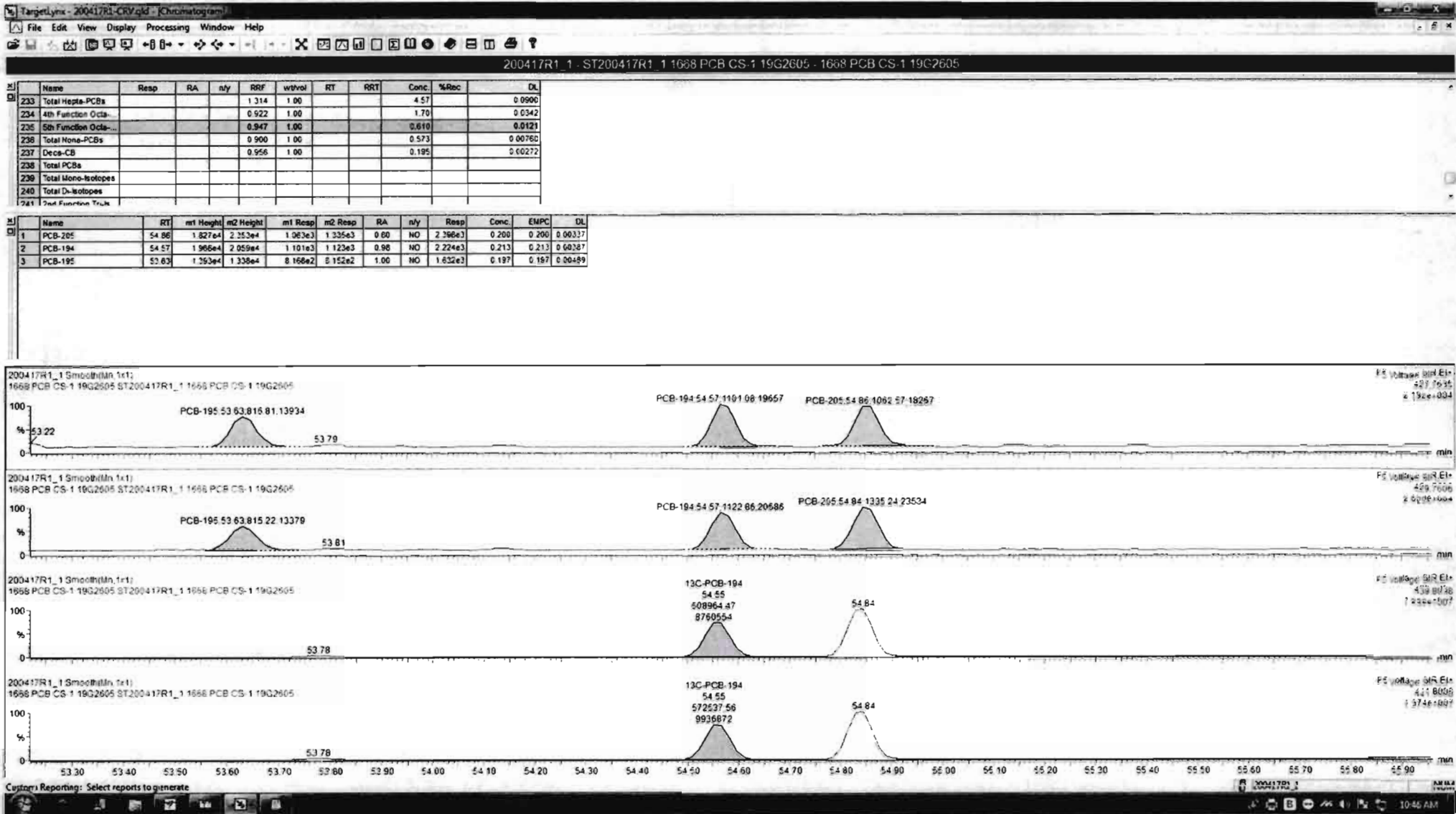
F5:Voltage SIR,EI+  
441.8008  
1.374e+007

PFK5

200417R1\_1



F5:Voltage SIR,EI+  
492.9697  
1.236e+006



Dataset: Untitled

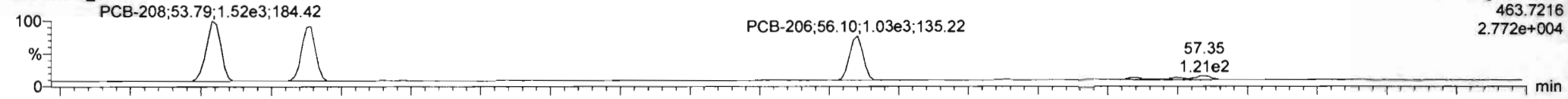
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

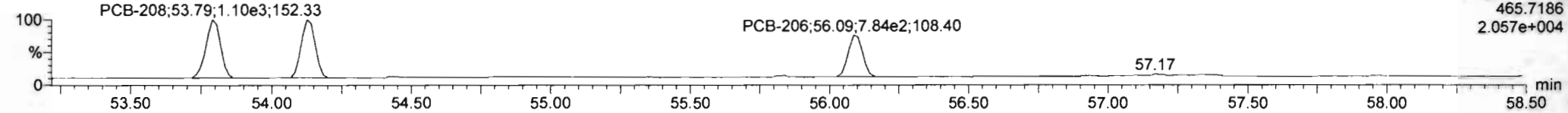
Name: 200417R1\_1, Date: 17-Apr-2020, Time: 15:50:03, ID: ST200417R1\_1 1668 PCB CS-1 19G2605, Description: 1668 PCB CS-1 19G2605

**PCB-208**

200417R1\_1

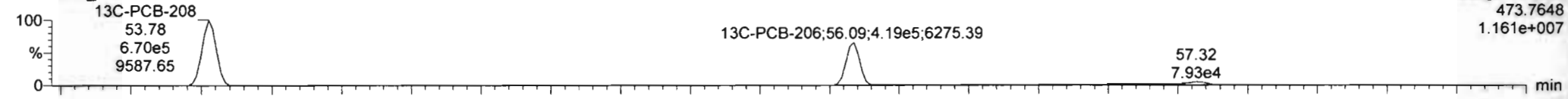


200417R1\_1

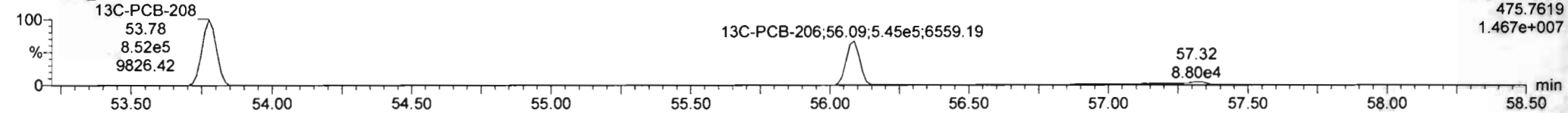


**13C-PCB-208**

200417R1\_1

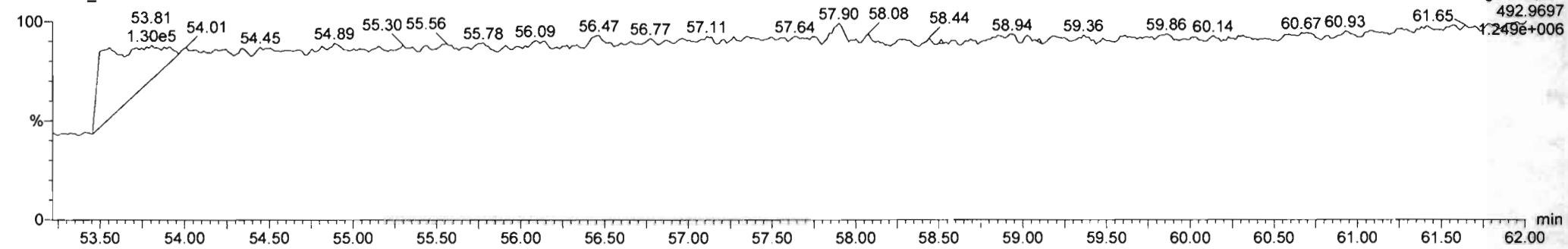


200417R1\_1



**PFK5a**

200417R1\_1



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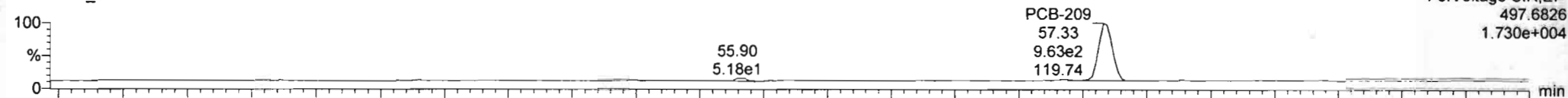
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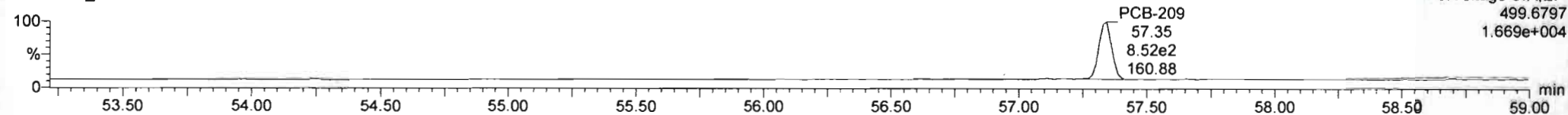
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**PCB-209**

200417R1\_1

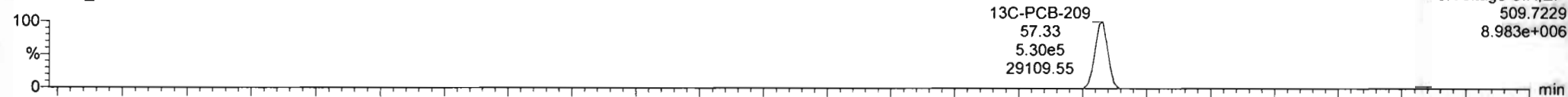


200417R1\_1

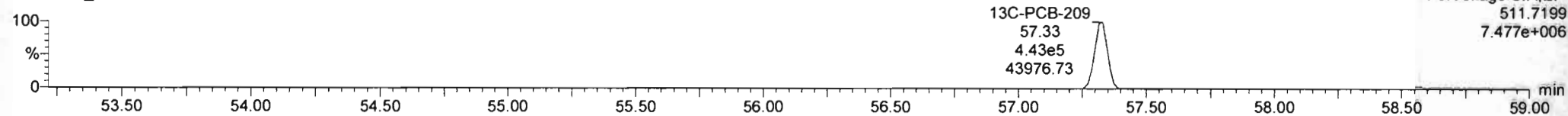


**13C-PCB-209**

200417R1\_1

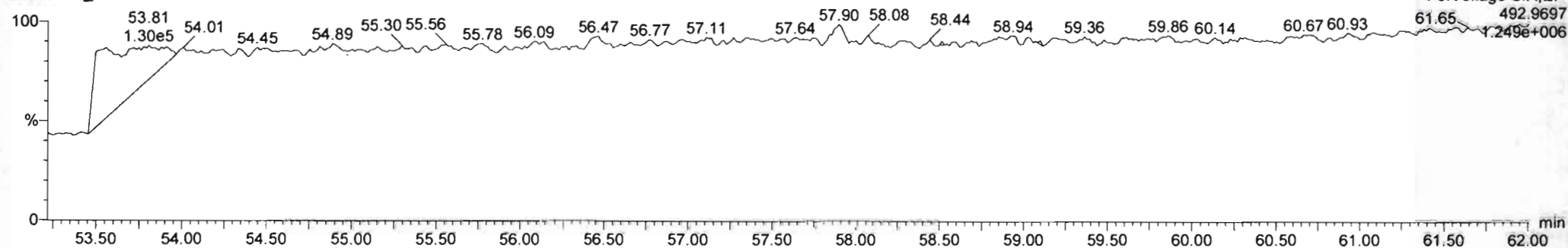


200417R1\_1



**PFK5b**

200417R1\_1



Dataset: Untitled

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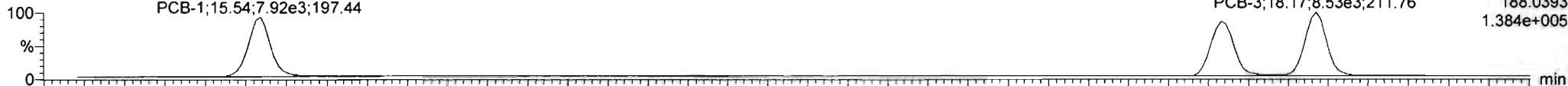
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

**PCB-1**

200417R1\_2

PCB-1;15.54;7.92e3;197.44

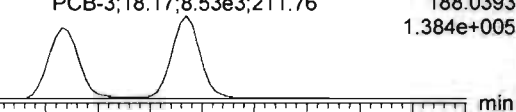


F1:Voltage SIR,EI+

188.0393

1.384e+005

PCB-3;18.17;8.53e3;211.76



F1:Voltage SIR,EI+

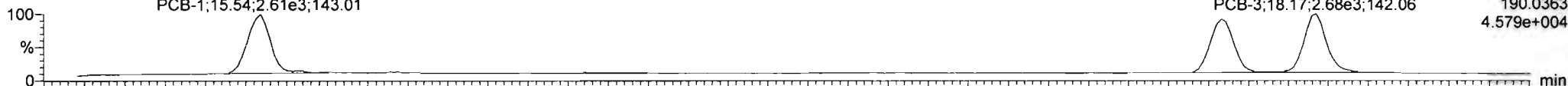
190.0363

4.579e+004

PCB-3;18.17;2.68e3;142.06

200417R1\_2

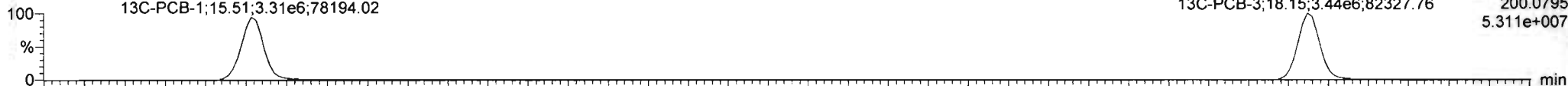
PCB-1;15.54;2.61e3;143.01



**13C-PCB-1**

200417R1\_2

13C-PCB-1;15.51;3.31e6;78194.02

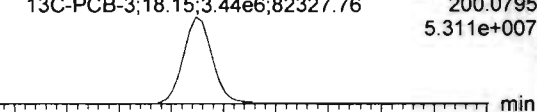


F1:Voltage SIR,EI+

200.0795

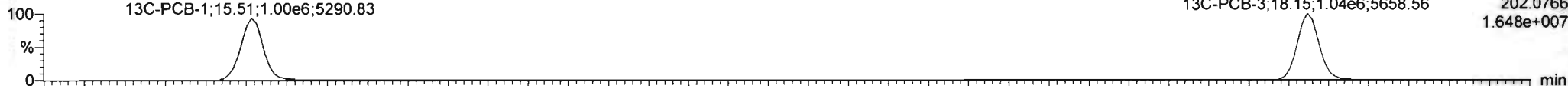
5.311e+007

13C-PCB-3;18.15;3.44e6;82327.76



200417R1\_2

13C-PCB-1;15.51;1.00e6;5290.83

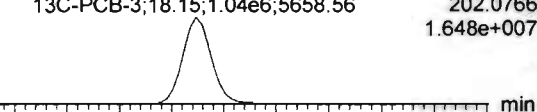


F1:Voltage SIR,EI+

202.0766

1.648e+007

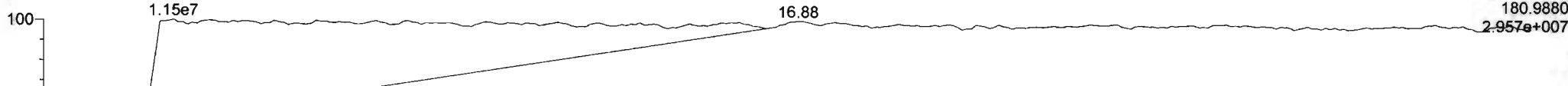
13C-PCB-3;18.15;1.04e6;5658.56



**PFK1**

200417R1\_2

15.32  
1.15e7



F1:Voltage SIR,EI+

180.9880

2.957e+007

16.88

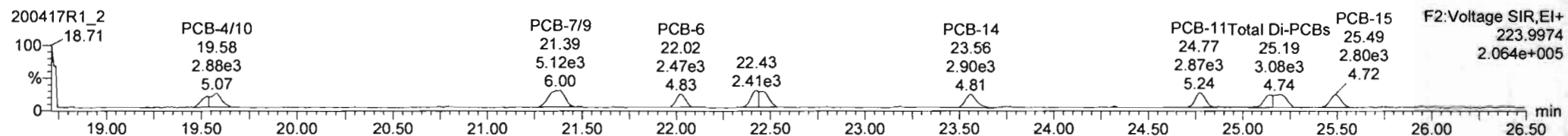
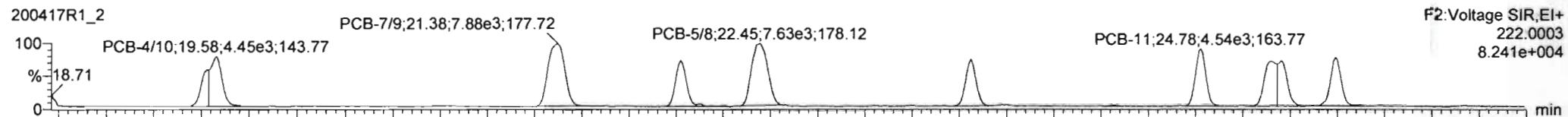


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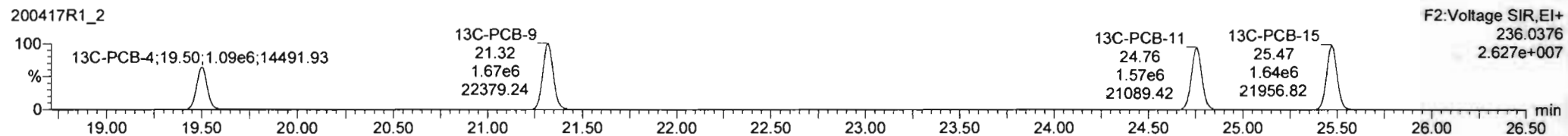
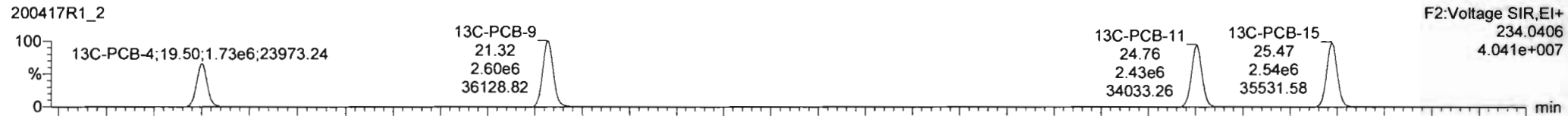
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 Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

**PCB-4/10**

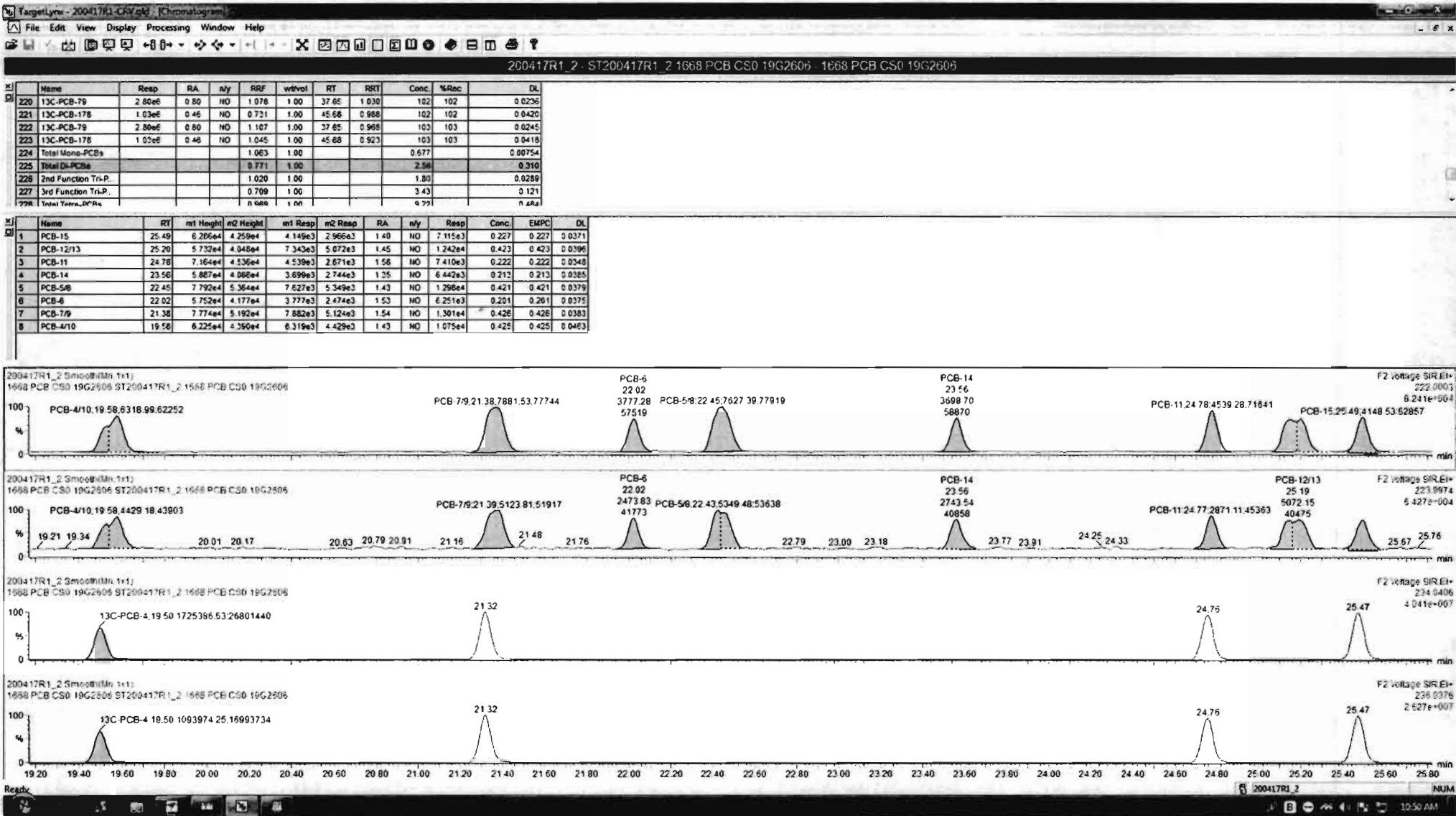


**13C-PCB-4**



**PFK2a**



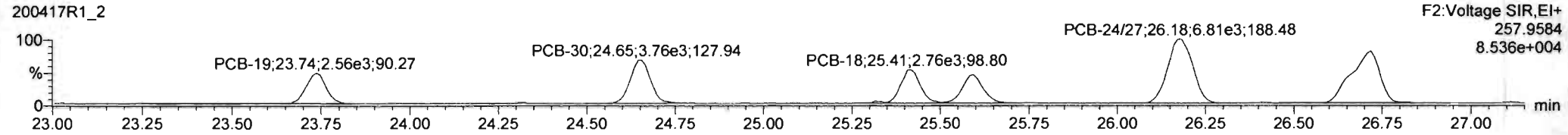
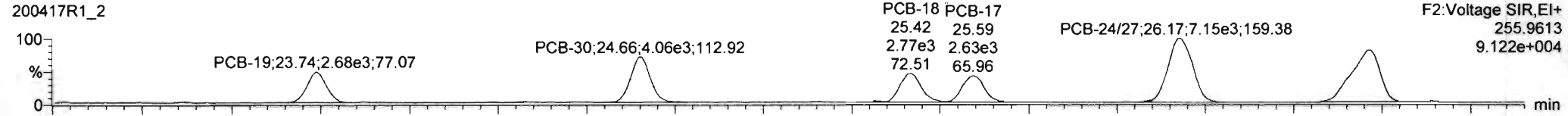


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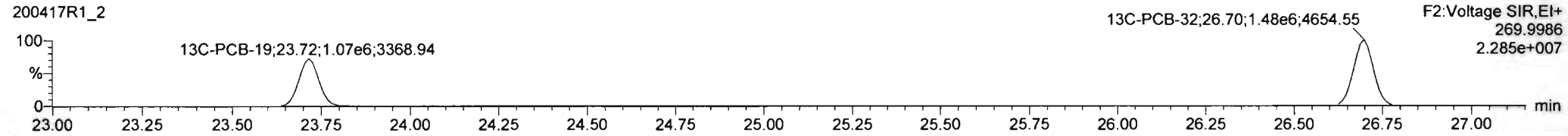
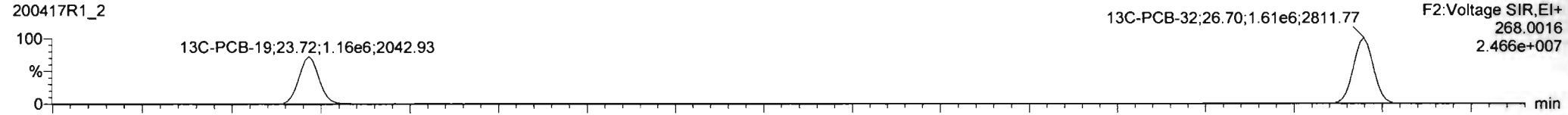
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

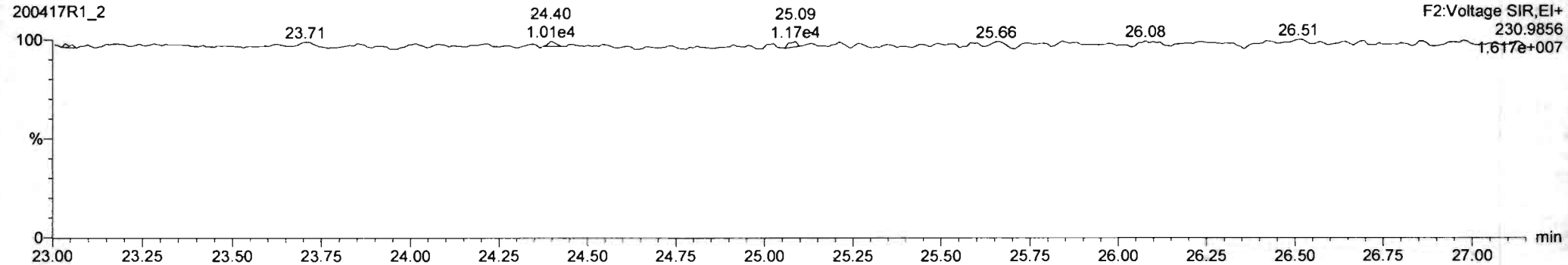
**PCB-19**



**13C-PCB-19**



**PFK2b**

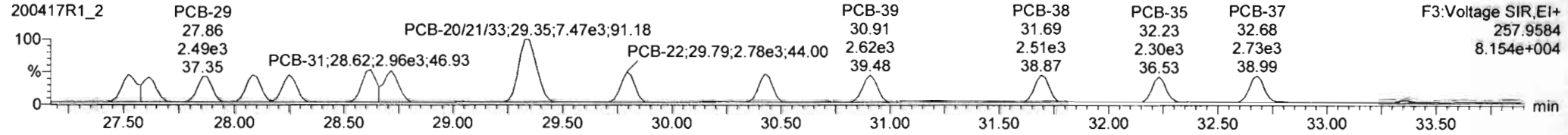
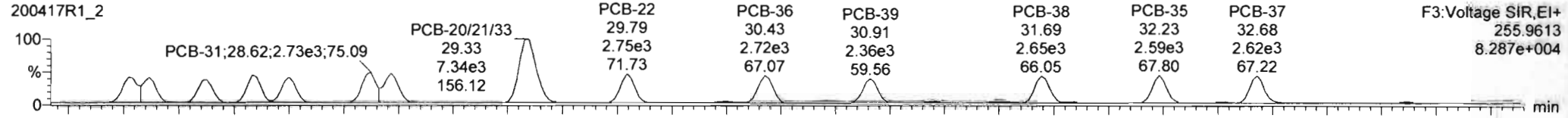


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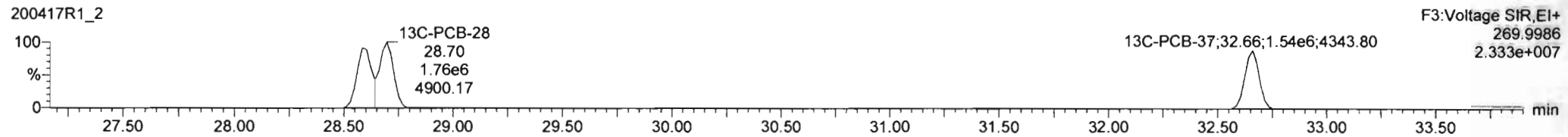
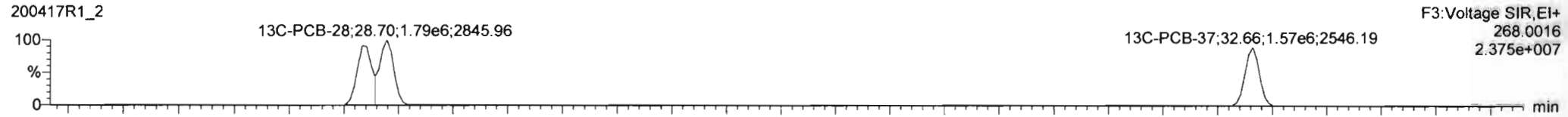
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

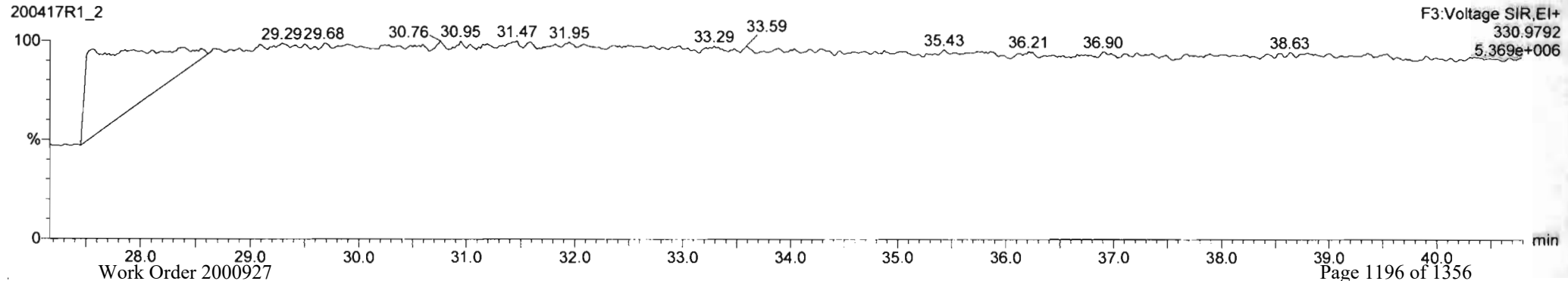
**PCB-34**



**13C-PCB-28**

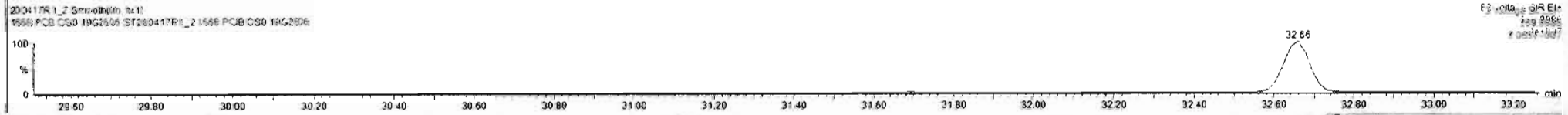
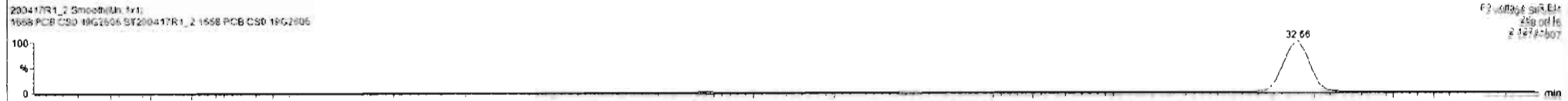
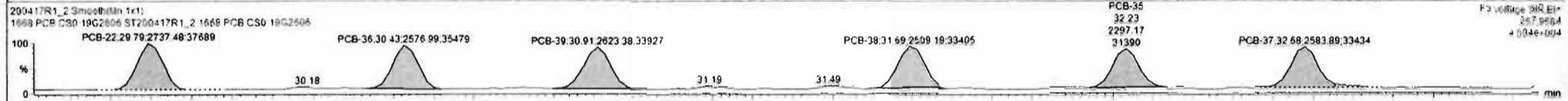
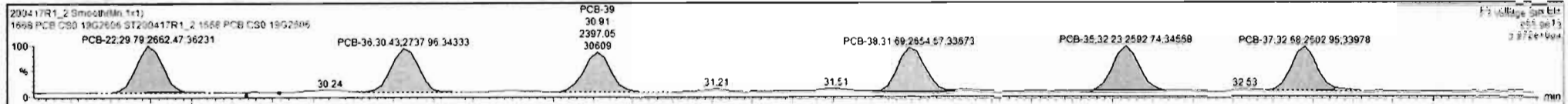


**PFK3a**



Name	Resp	RA	n/y	RRF	wTvol	RT	RRT	Conc.	%Rec	DL
Z20 13C-PCB-79	2.80e6	0.80	NO	1.078	1.00	37.65	1.030	102	102	0.0236
Z21 13C-PCB-178	1.03e6	0.46	NO	0.731	1.00	45.68	0.968	102	102	0.0420
Z22 13C-PCB-79	2.80e6	0.80	NO	1.107	1.00	37.65	0.968	103	103	0.0245
Z23 13C-PCB-178	1.03e6	0.46	NO	1.045	1.00	45.68	0.921	103	103	0.0418
Z24 Total Mono-PCBs				1.063	1.00			0.677		0.00754
Z25 Total Di-PCBs				0.771	1.00			2.56		0.310
Z26 2nd Function Tri-P				1.020	1.00			1.80		0.0289
Z27 3rd Function Tri-P				0.708	1.00			3.43		0.121
Z28 Total Tetra-PCBs				0.690	1.00			0.771		0.0481

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-25	28.25	3.187e4	3.416e4	2.431e3	2.580e3	0.94	NO	5.011e3	0.217	0.217	0.00899
2 PCB-26	28.08	3.509e4	3.378e4	2.595e3	2.685e3	0.97	NO	5.280e3	0.223	0.223	0.00878
3 PCB-29	27.68	2.847e4	3.210e4	2.277e3	2.486e3	0.92	NO	4.764e3	0.218	0.218	0.00951
4 PCB-23	27.62	3.132e4	3.085e4	2.133e3	2.187e3	0.98	NO	4.300e3	0.197	0.197	0.00949
5 PCB-34	27.52	3.161e4	3.442e4	2.536e3	2.735e3	0.93	NO	5.271e3	0.224	0.224	0.00880
6 PCB-37	32.68	3.396e4	3.343e4	2.503e3	2.584e3	0.97	NO	5.087e3	0.216	0.216	0.00867
7 PCB-35	32.23	3.457e4	3.139e4	2.593e3	2.297e3	1.13	NO	4.890e3	0.211	0.211	0.00877
8 PCB-38	31.69	3.367e4	3.341e4	2.655e3	2.509e3	1.06	NO	5.164e3	0.215	0.215	0.00849
9 PCB-39	30.91	3.061e4	3.393e4	2.397e3	2.623e3	0.91	NO	5.029e3	0.221	0.221	0.00898
10 PCB-36	30.43	3.433e4	3.548e4	2.736e3	2.577e3	1.06	NO	5.315e3	0.218	0.218	0.00834



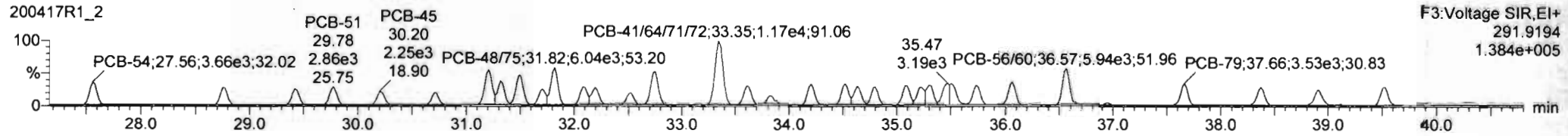
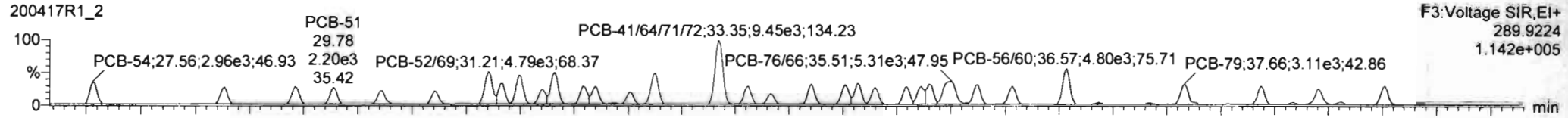
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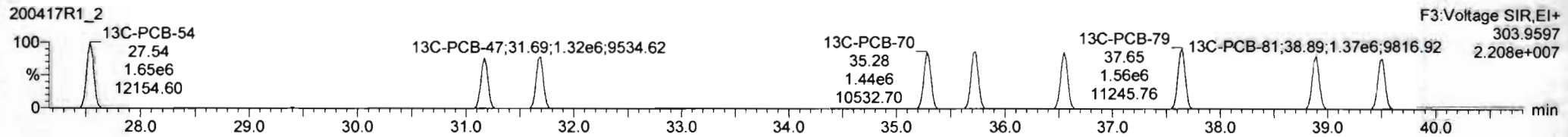
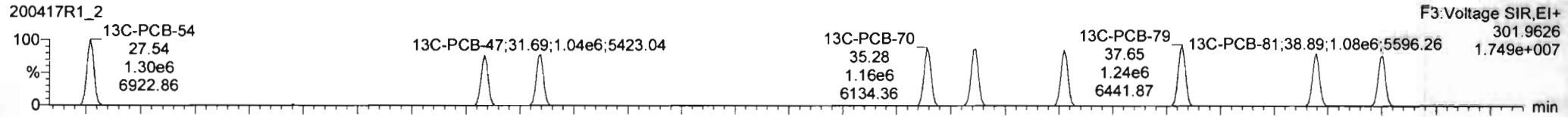
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

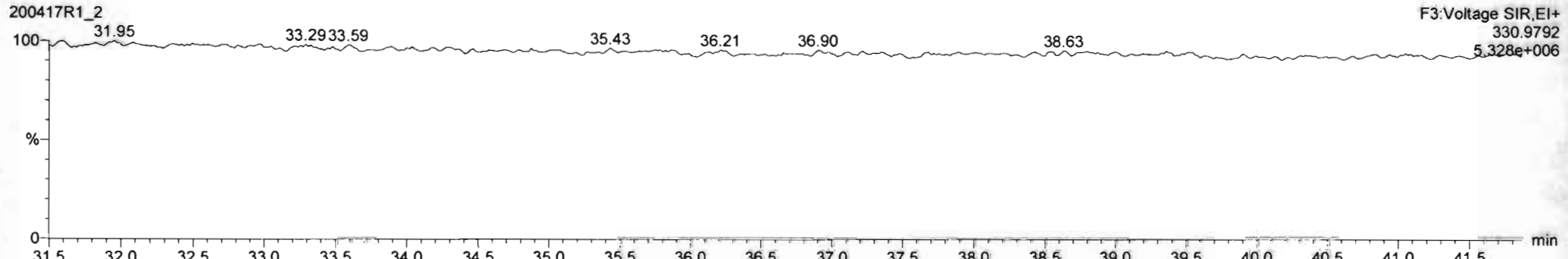
**PCB-54**



**13C-PCB-54**



**PFK3b**

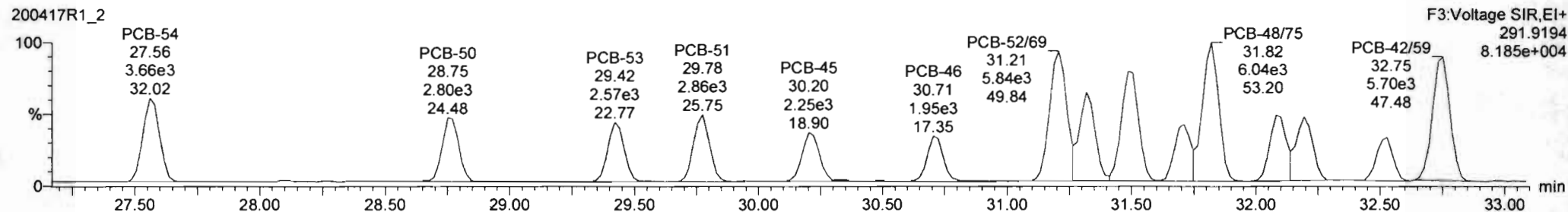
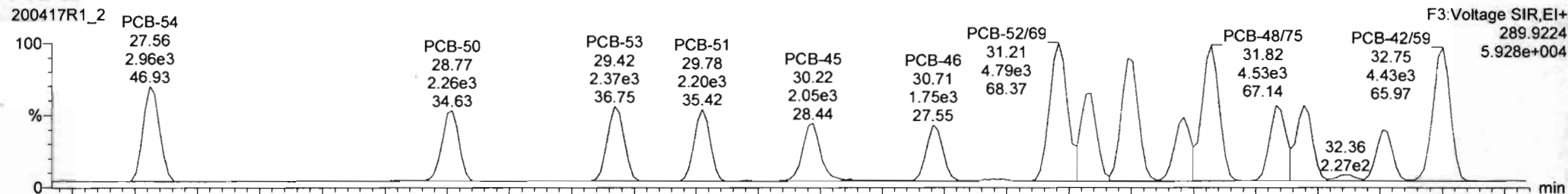


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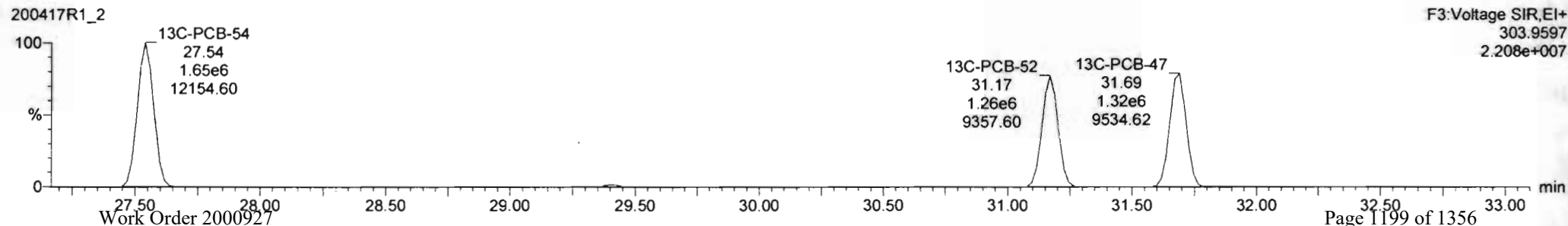
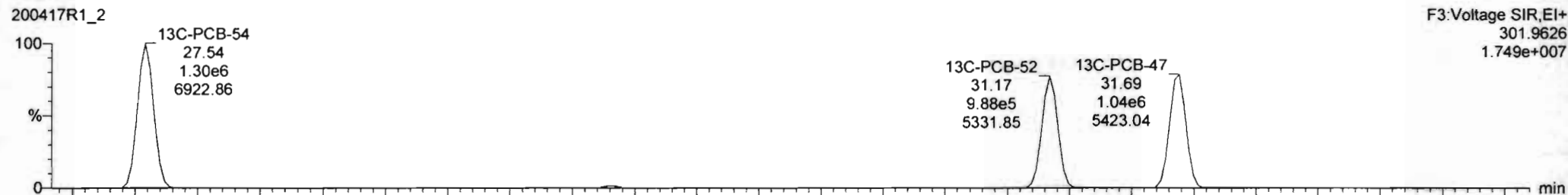
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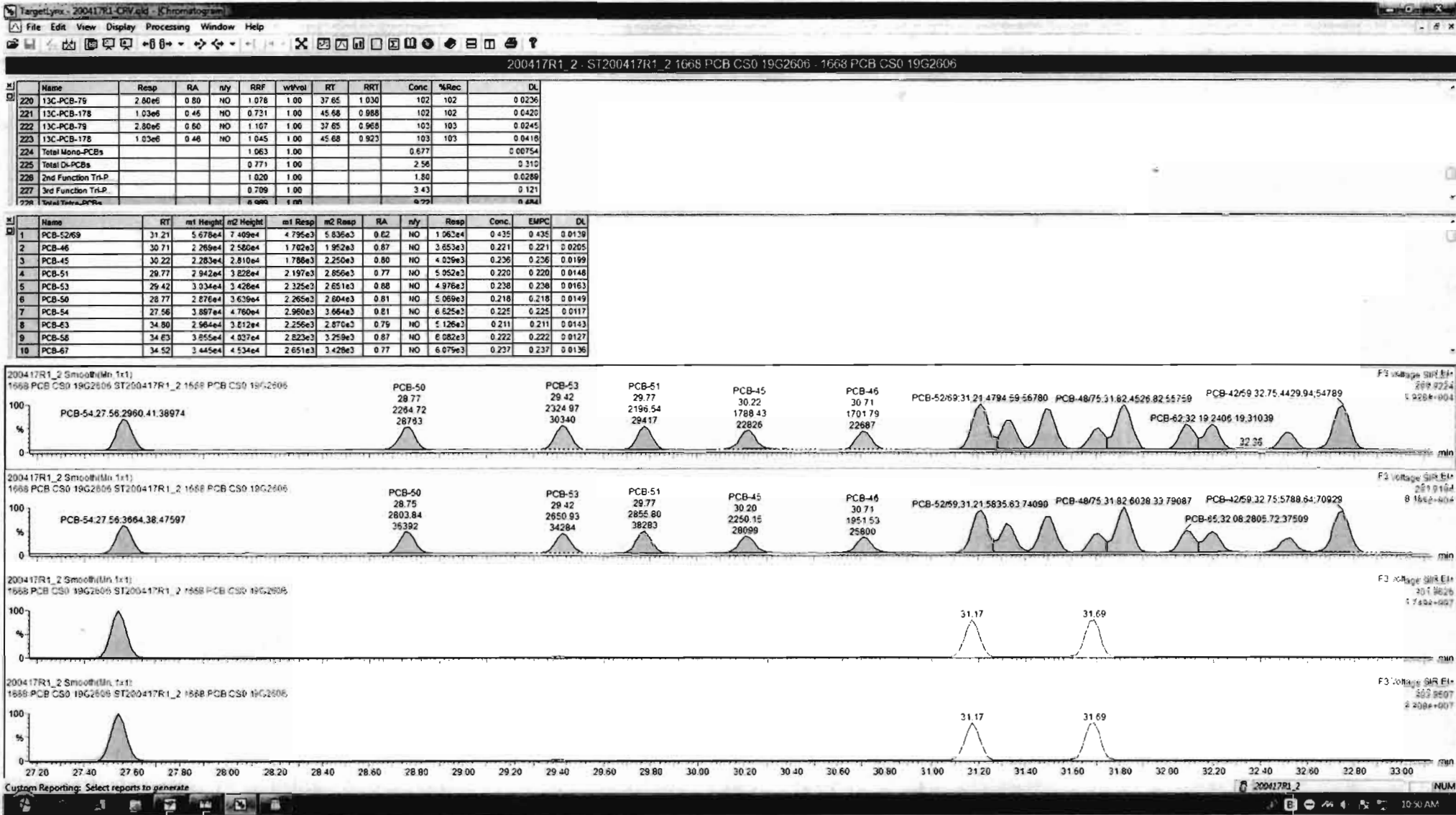
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**PCB-50**



**13C-PCB-52**







Dataset: Untitled

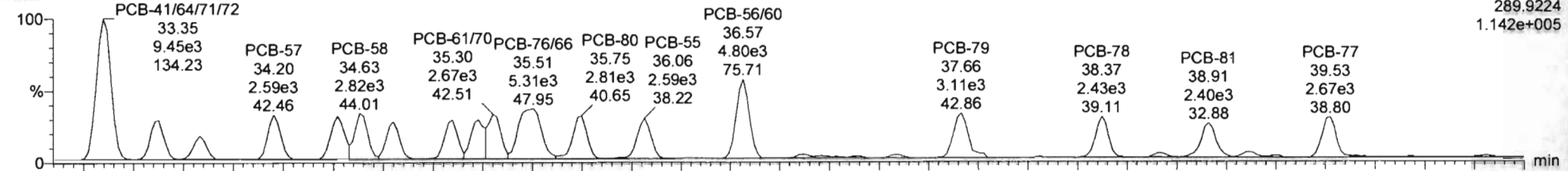
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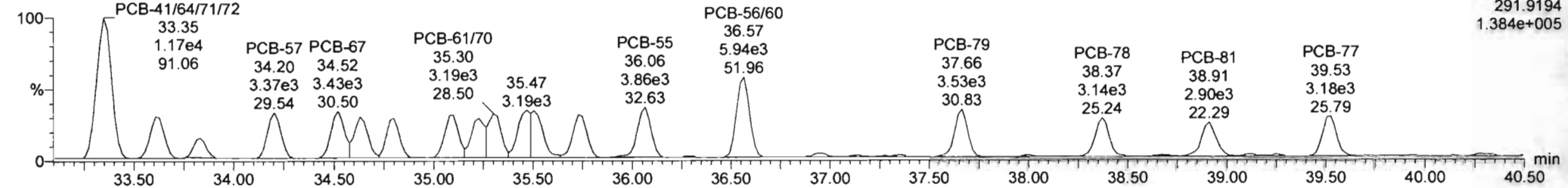
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PCB-68

200417R1\_2

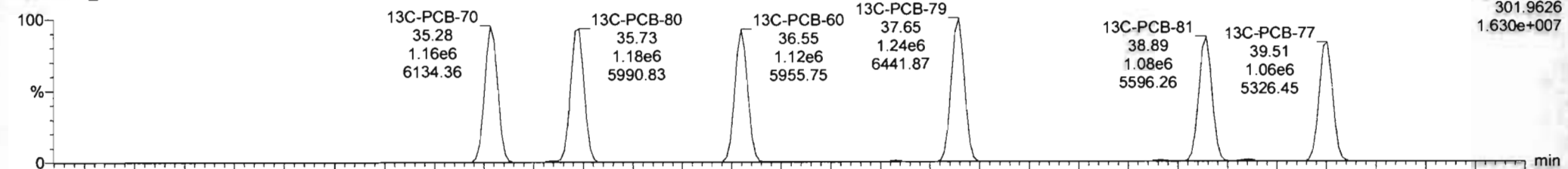


200417R1\_2

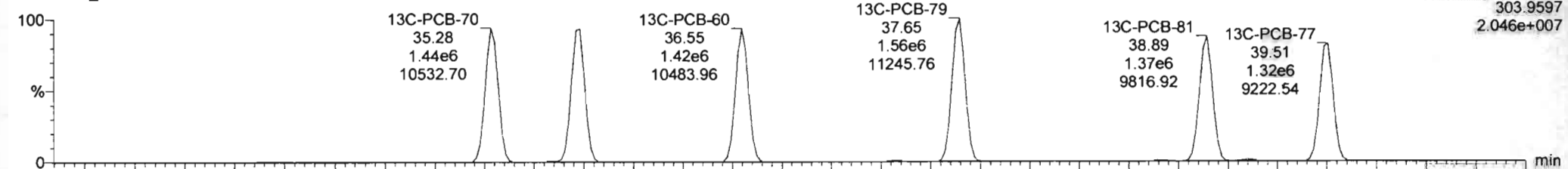


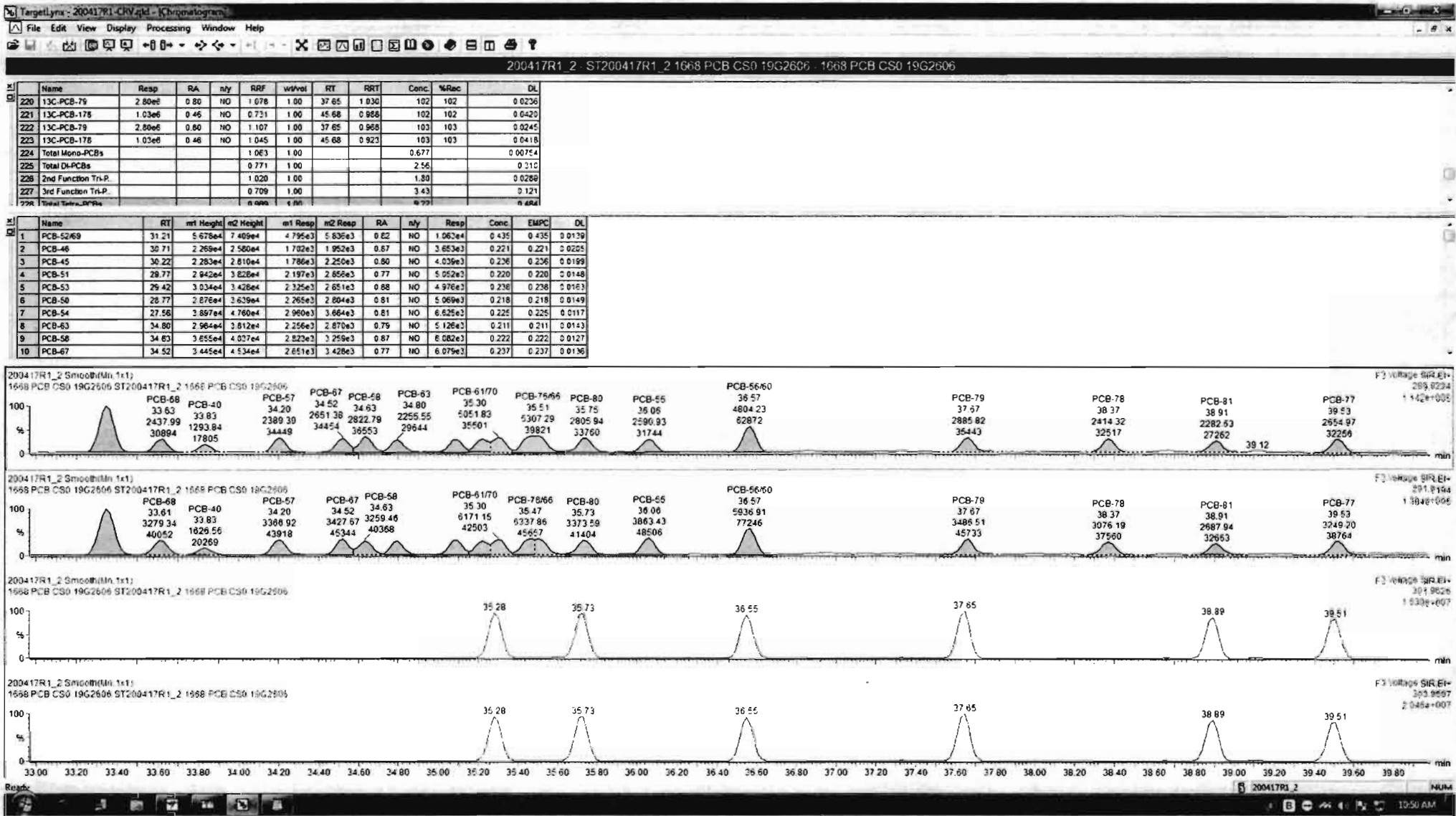
13C-PCB-60

200417R1\_2



200417R1\_2





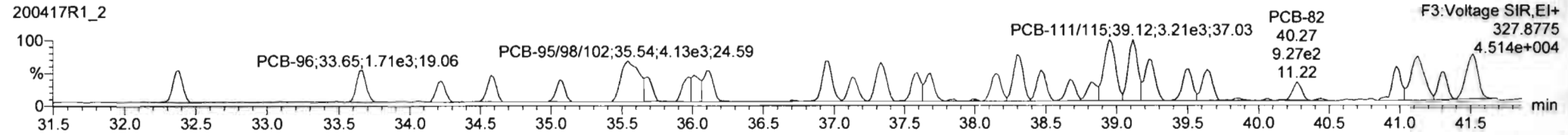
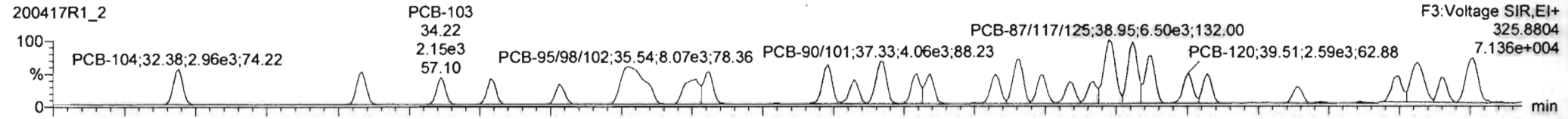
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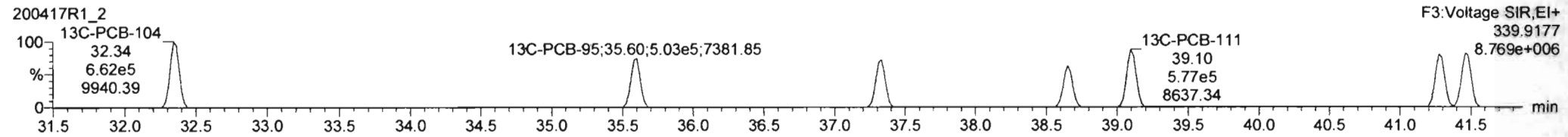
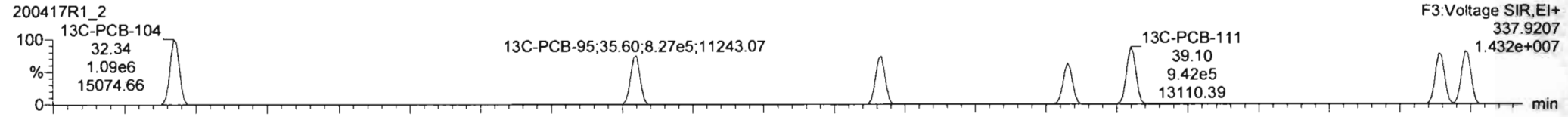
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

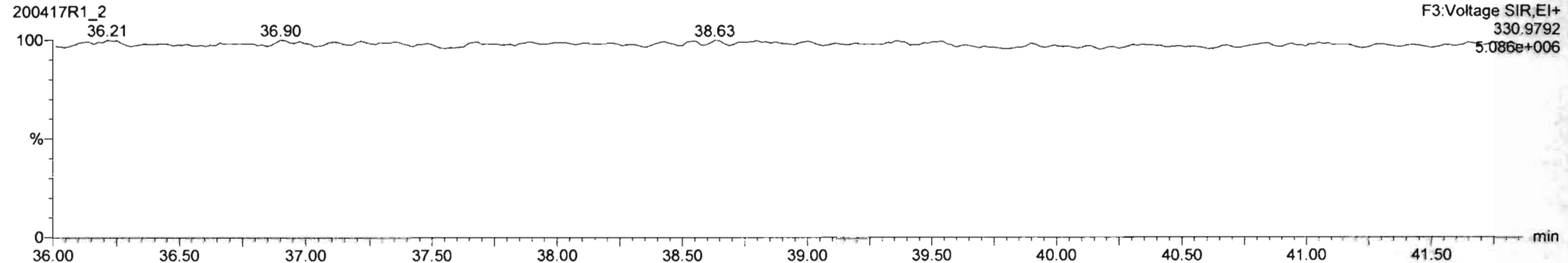
**PCB-104**



**13C-PCB-104**



**PFK3c**



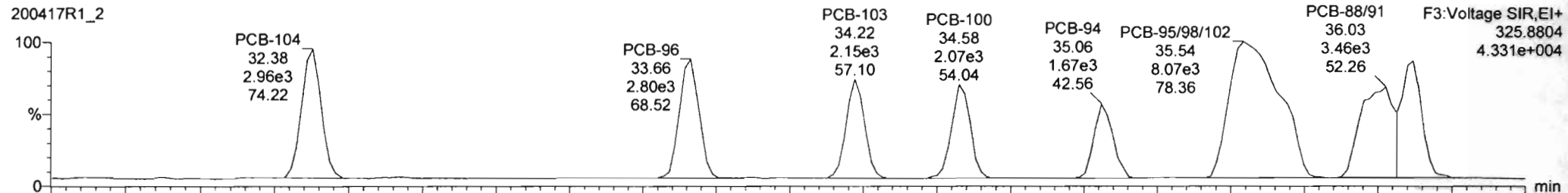
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 Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

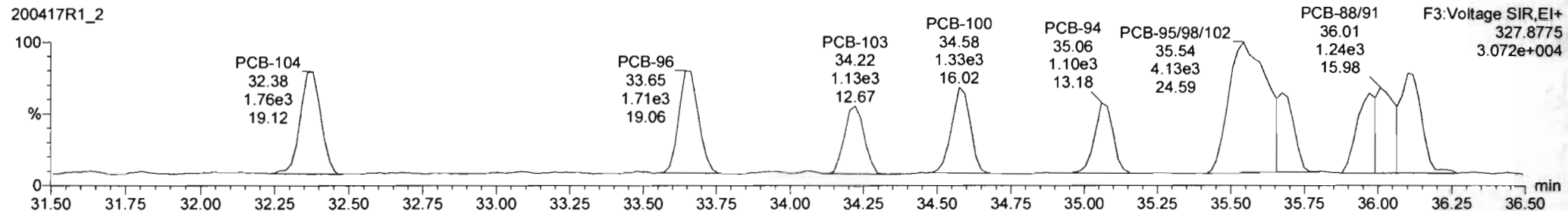
Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

**PCB-96**

200417R1\_2

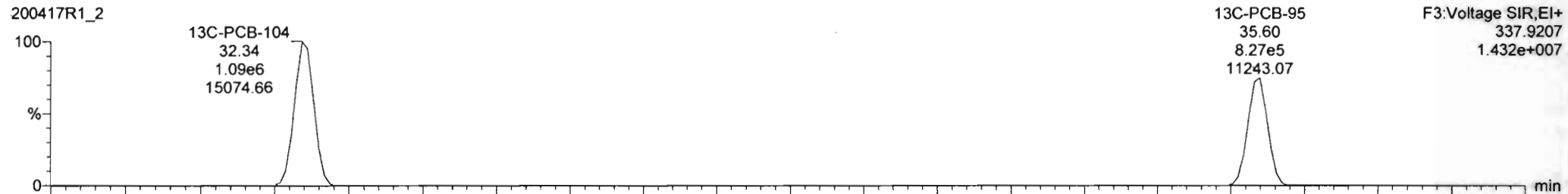


200417R1\_2

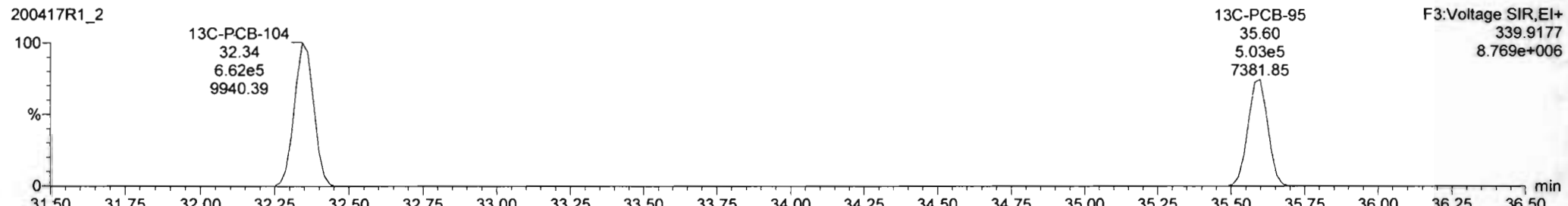


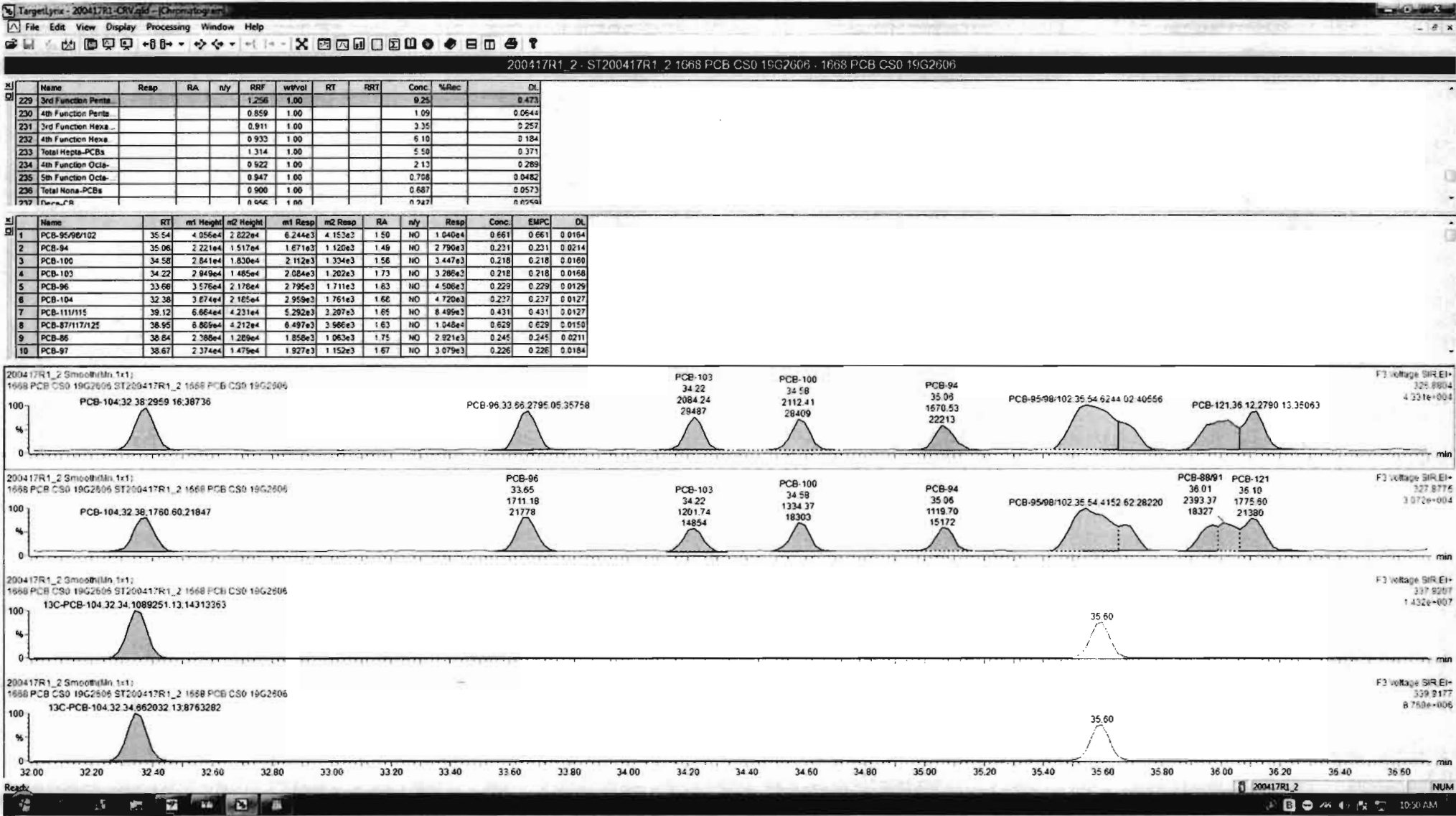
**13C-PCB-95**

200417R1\_2



200417R1\_2



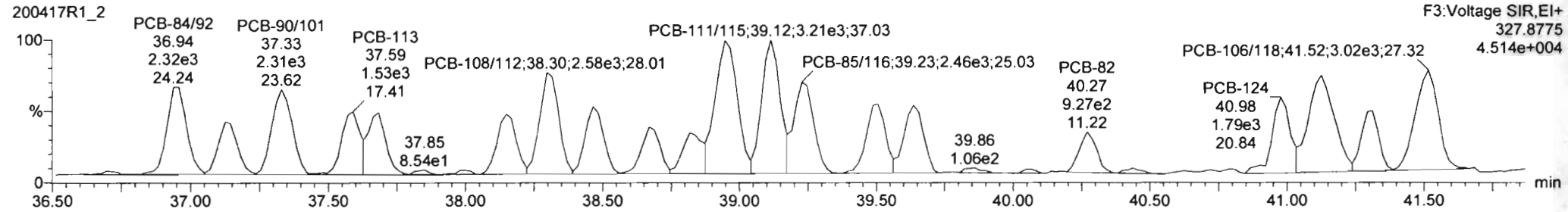
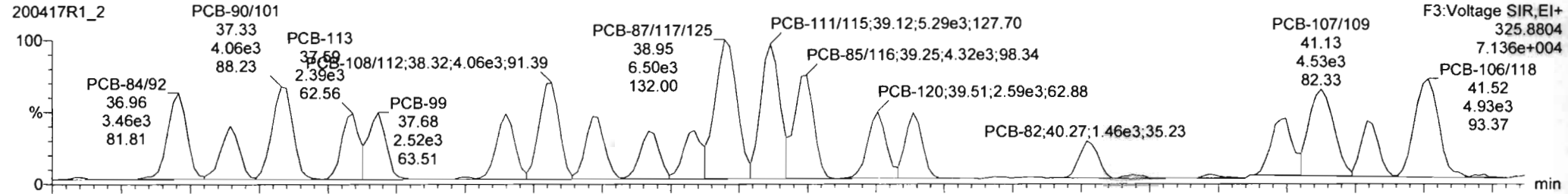


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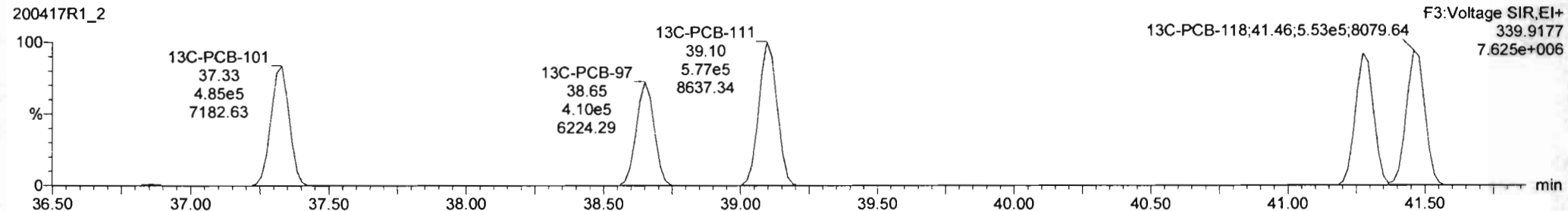
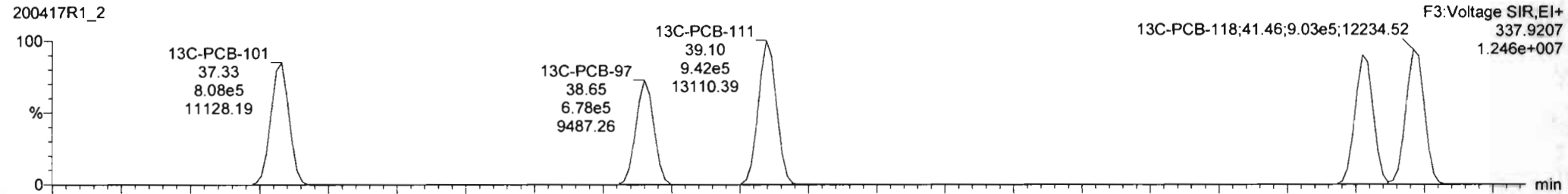
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Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

PCB-119



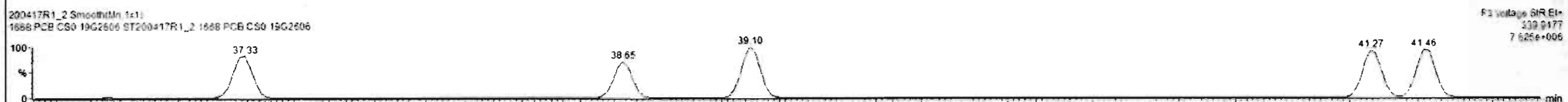
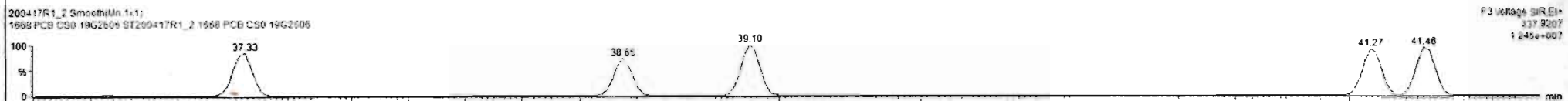
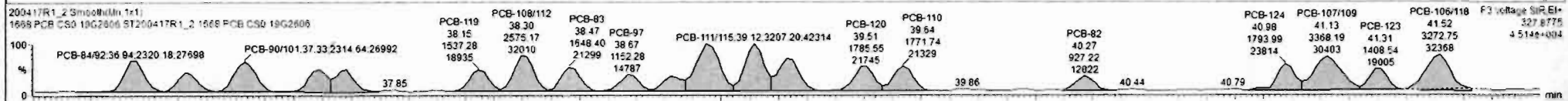
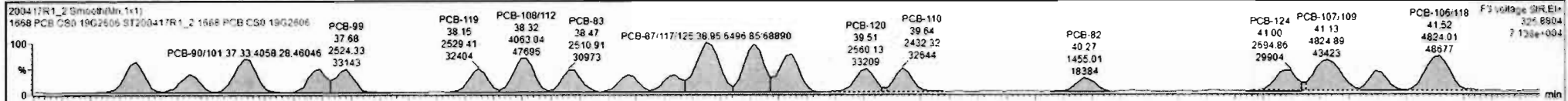
13C-PCB-111



200417R1\_2 - ST200417R1\_2 1668 PCB CS0 19G2606 1668 PCB CS0 19G2606

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL
229 3rd Function Penta				1.250	1.00			9.25		0.473
230 4th Function Penta				0.859	1.00			1.09		0.0644
231 3rd Function Hexa				0.911	1.00			3.35		0.257
232 4th Function Hexa				0.933	1.00			6.10		0.184
233 Total Hepta-PCBs				1.314	1.00			5.50		0.371
234 4th Function Octa-				0.922	1.00			2.13		0.289
235 5th Function Octa-				0.947	1.00			0.708		0.0462
236 Total Nona-PCBs				0.900	1.00			0.687		0.0573

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-95/96/102	35.54	4.052e4	2.222e4	6.244e3	4.153e3	1.50	NO	1.040e4	0.661	0.661	0.0154
2 PCB-94	35.08	2.221e4	1.517e4	1.571e3	1.120e3	1.49	NO	2.790e3	0.231	0.231	0.0214
3 PCB-100	34.58	2.841e4	1.830e4	2.112e3	1.334e3	1.58	NO	3.447e3	0.218	0.218	0.0160
4 PCB-103	34.22	2.945e4	1.485e4	2.084e3	1.202e3	1.73	NO	3.286e3	0.218	0.218	0.0158
5 PCB-96	33.68	3.576e4	2.178e4	2.795e3	1.711e3	1.63	NO	4.506e3	0.229	0.229	0.0125
6 PCB-104	32.38	3.274e4	2.165e4	2.959e3	1.761e3	1.66	NO	4.720e3	0.237	0.237	0.0127
7 PCB-111/115	39.12	6.864e4	4.231e4	5.292e3	3.207e3	1.65	NO	8.499e3	0.431	0.431	0.0127
8 PCB-87/117/125	38.95	8.865e4	4.212e4	6.497e3	3.986e3	1.63	NO	1.048e4	0.629	0.629	0.0150
9 PCB-86	38.64	2.388e4	1.289e4	1.858e3	1.063e3	1.75	NO	2.921e3	0.245	0.245	0.0211
10 PCB-97	38.67	2.374e4	1.479e4	1.927e3	1.152e3	1.67	NO	3.079e3	0.226	0.226	0.0184



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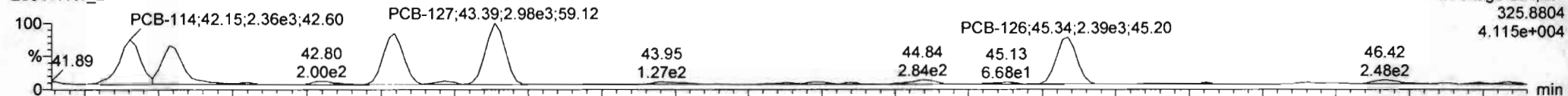
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

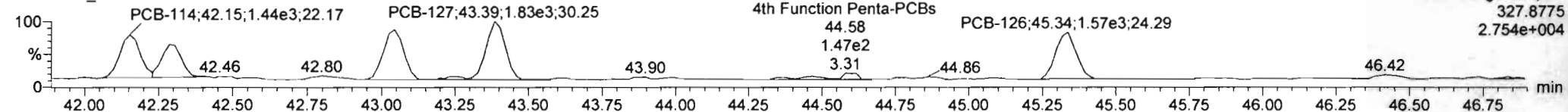
Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

**PCB-114**

200417R1\_2



200417R1\_2

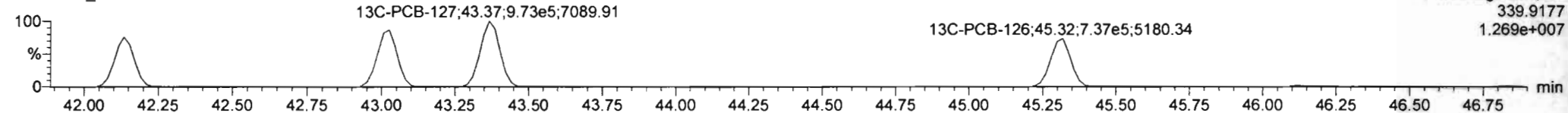


**13C-PCB-114**

200417R1\_2

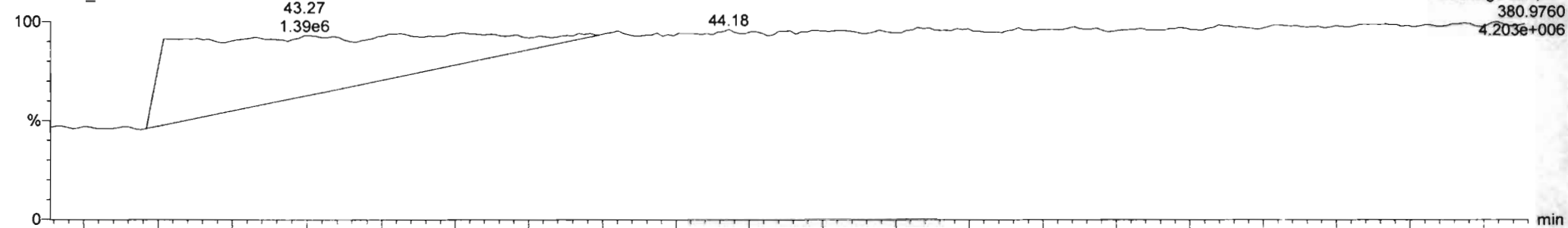


200417R1\_2

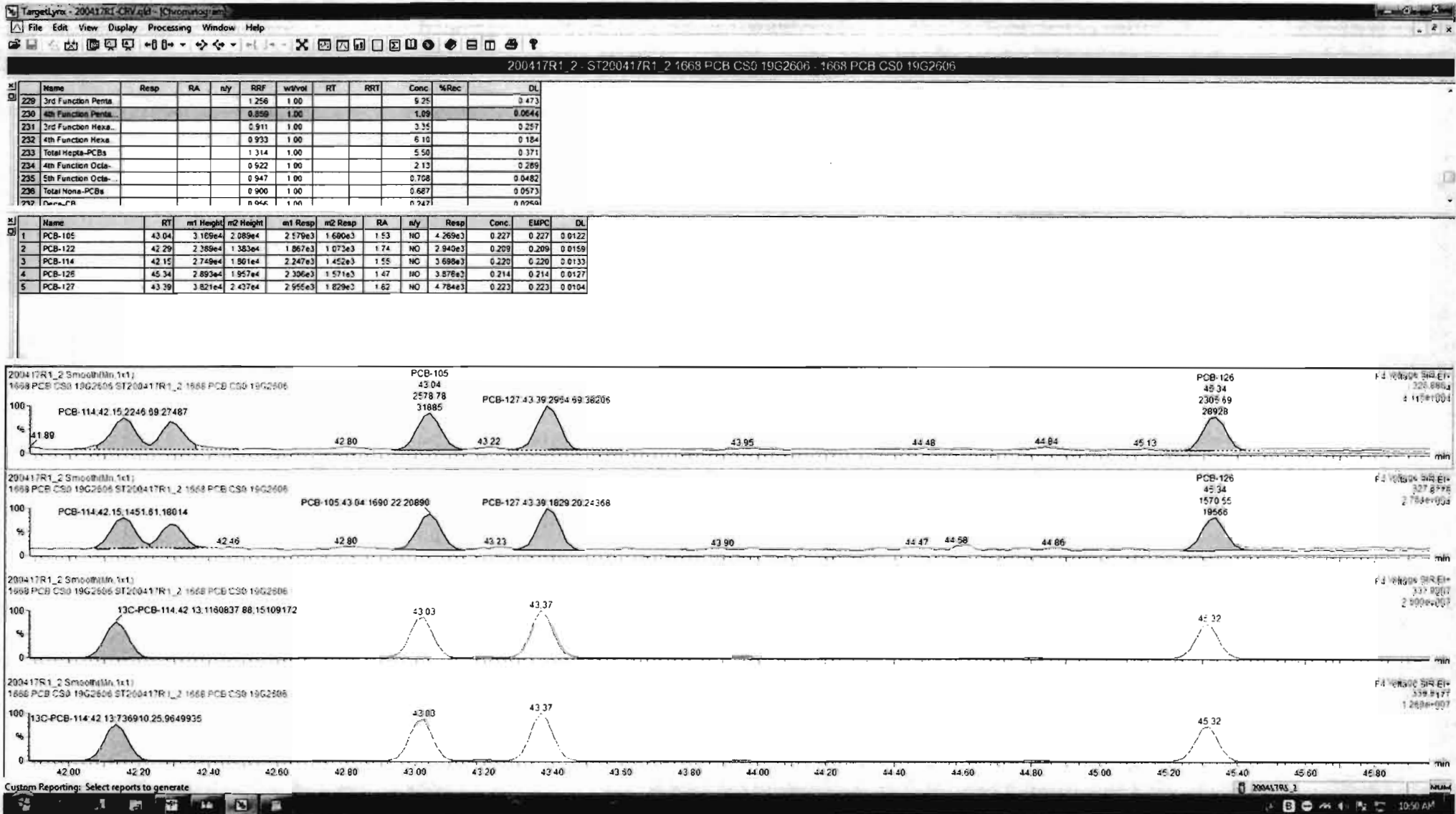


**PFK4a**

200417R1\_2







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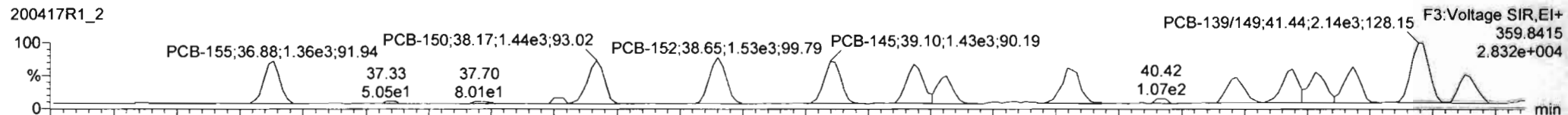
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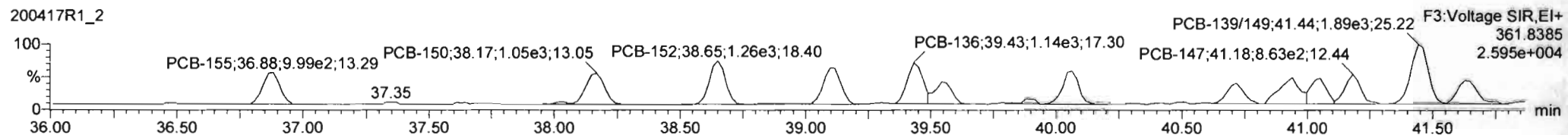
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**PCB-155**

200417R1\_2

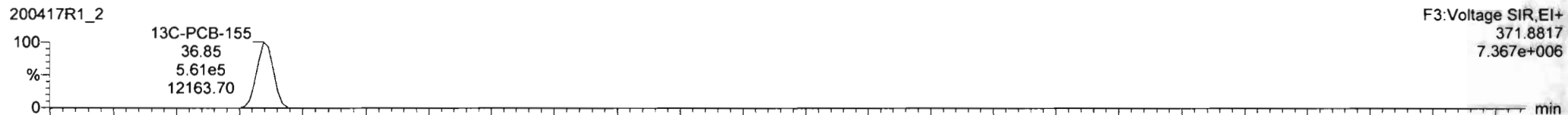


200417R1\_2

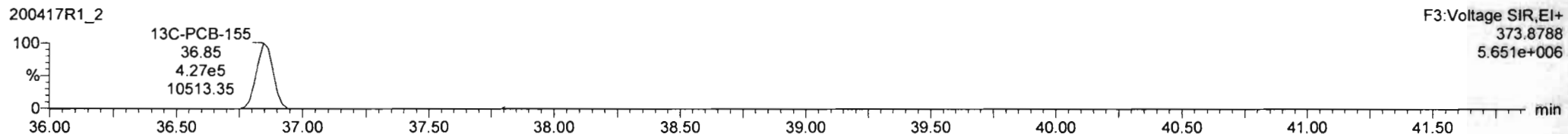


**13C-PCB-155**

200417R1\_2

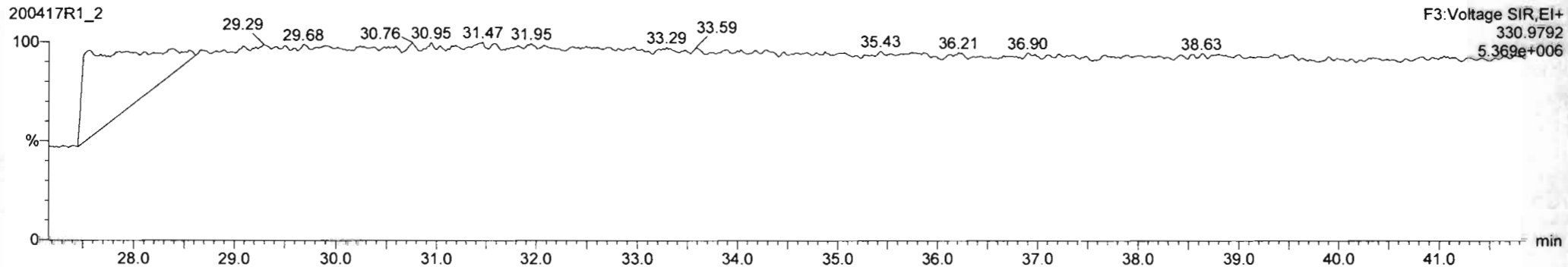


200417R1\_2



**PFK3d**

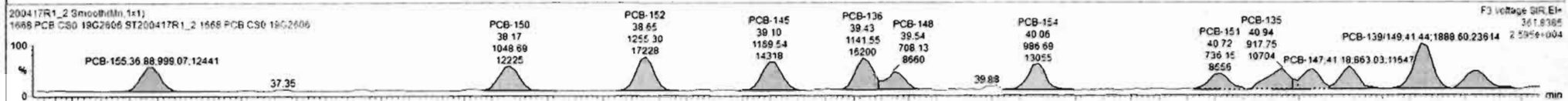
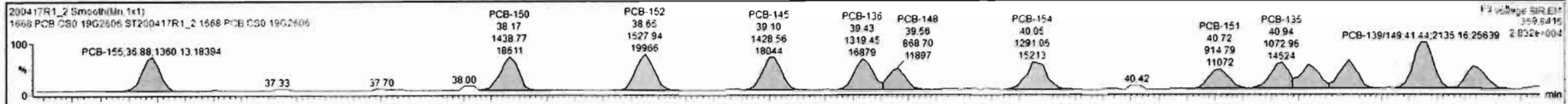
200417R1\_2



200417R1\_2 - ST200417R1\_2 1668 PCB CS0 19G2606 - 1668 PCB CS0 19G2606

Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc.	%Rec	DL
229 3rd Function Penta				1.256	1.00			9.25		0.473
230 4th Function Penta				0.859	1.00			1.09		0.0644
231 3rd Function Hexa				0.911	1.00			3.35		0.257
232 4th Function Hexa				0.933	1.00			6.10		0.184
233 Total Hepta-PCBs				1.314	1.00			5.50		0.371
234 4th Function Octa				0.622	1.00			2.13		0.289
235 5th Function Octa				0.947	1.00			0.708		0.0482
236 Total Nona-PCBs				0.900	1.00			0.687		0.0573
237 Total PCBs				0.646	1.00			0.747		0.0763

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-155	36.88	1.839e4	1.244e4	1.360e3	9.591e2	1.26	NO	2.359e3	0.235	0.235	0.0173
2 PCB-146	41.63	1.235e4	9.295e3	9.963e2	8.784e2	1.13	NO	1.875e3	0.247	0.247	0.0228
3 PCB-139/149	41.44	2.564e4	2.361e4	2.135e3	1.889e3	1.13	NO	4.024e3	0.455	0.455	0.0196
4 PCB-147	41.18	1.561e4	1.165e4	1.168e3	8.630e2	1.35	NO	2.031e3	0.261	0.261	0.0222
5 PCB-144	41.03	1.317e4	1.015e4	1.071e3	8.354e2	1.28	NO	1.907e3	0.255	0.255	0.0232
6 PCB-135	40.94	1.452e4	1.070e4	1.073e3	9.177e2	1.17	NO	1.991e3	0.241	0.241	0.0210
7 PCB-151	40.72	1.107e4	8.556e3	9.148e2	7.361e2	1.24	NO	1.651e3	0.231	0.231	0.0243
8 PCB-154	40.05	1.521e4	1.308e4	1.291e3	9.867e2	1.31	NO	2.278e3	0.267	0.267	0.0263
9 PCB-148	39.56	1.190e4	8.606e3	8.687e2	7.081e2	1.23	NO	1.577e3	0.207	0.207	0.0228
10 PCB-136	39.43	1.688e4	1.620e4	1.319e3	1.142e3	1.16	NO	2.461e3	0.247	0.247	0.0174

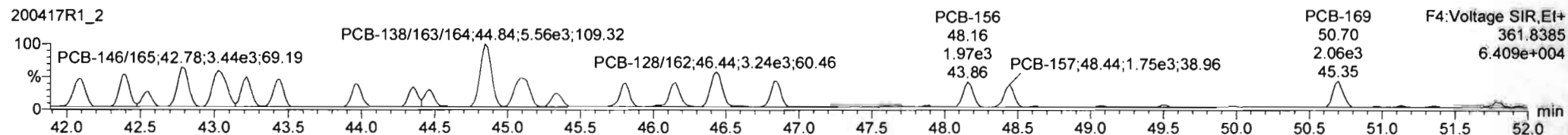
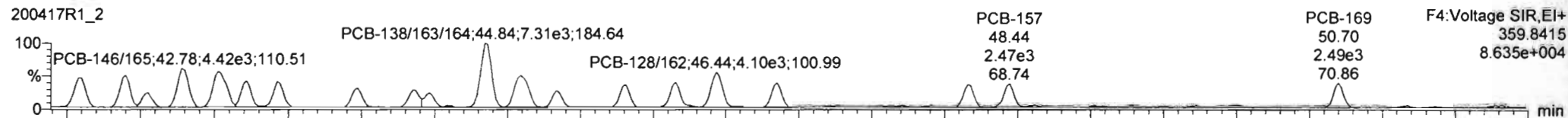


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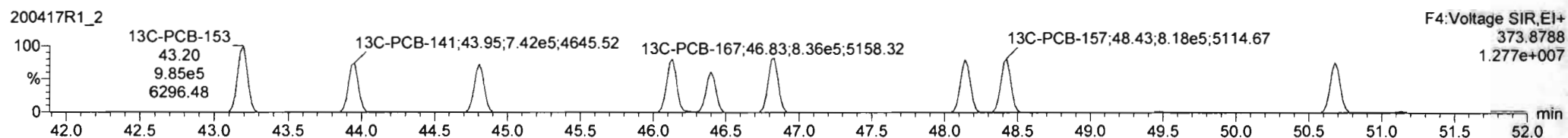
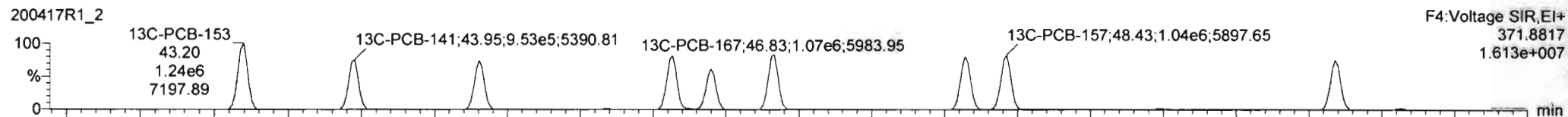
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Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

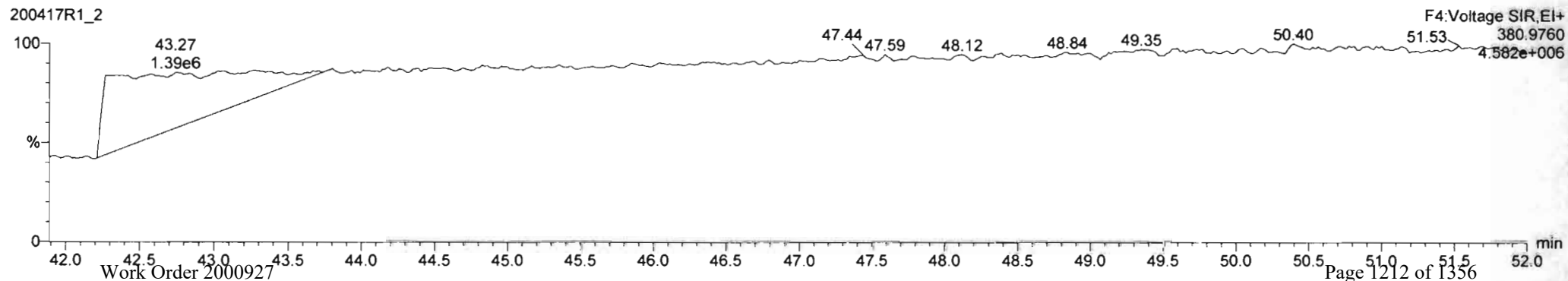
**PCB-134/143**



**13C-PCB-153**



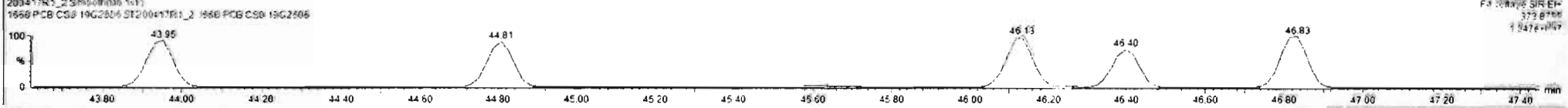
**PFK4b**



200417R1\_2 - ST200417R1\_2 1668 PCB CS0 19G2606 - 1668 PCB CS0 19G2606

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL
229 3rd Function Penta				1.258	1.00			9.25		0.473
230 4th Function Penta				0.859	1.00			1.09		0.0644
231 3rd Function Hexa				0.911	1.00			3.35		0.257
232 4th Function Hexa				0.933	1.00			6.10		0.184
233 Total Hepta-PCBs				1.314	1.00			5.50		0.371
234 4th Function Octa-				0.922	1.00			2.13		0.289
235 5th Function Octa-				0.947	1.00			0.708		0.0482
236 Total Nona-PCBs				0.900	1.00			0.687		0.0573
237 Total PCB				0.046	1.00			0.747		0.0260

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-137	44.35	2.286e4	2.002e4	1.865e3	1.478e3	1.26	NO	3.242e3	0.216	0.216	0.0104
2 PCB-141	43.97	2.437e4	2.241e4	2.012e3	1.883e3	1.07	NO	3.894e3	0.237	0.237	0.00977
3 PCB-168	43.42	3.342e4	2.708e4	2.706e3	2.214e3	1.22	NO	4.922e3	0.221	0.221	0.00701
4 PCB-153	43.22	3.417e4	2.989e4	2.623e3	2.310e3	1.14	NO	4.933e3	0.222	0.222	0.00703
5 PCB-132/161	43.03	4.613e4	3.575e4	4.822e3	3.946e3	1.22	NO	8.768e3	0.434	0.434	0.00775
6 PCB-146/165	42.78	5.819e4	3.896e4	4.423e3	3.445e3	1.28	NO	7.967e3	0.423	0.423	0.00841
7 PCB-142	42.55	1.878e4	1.513e4	1.515e3	1.160e3	1.31	NO	2.674e3	0.196	0.196	0.0115
8 PCB-131/133	42.40	4.152e4	3.160e4	3.360e3	2.594e3	1.29	NO	5.954e3	0.366	0.366	0.0104
9 PCB-134/143	42.08	3.791e4	2.717e4	3.492e3	2.635e3	1.32	NO	6.127e3	0.422	0.422	0.0108
10 PCB-156	48.16	2.976e4	2.470e4	2.409e3	1.973e3	1.22	NO	4.362e3	0.223	0.222	0.00810



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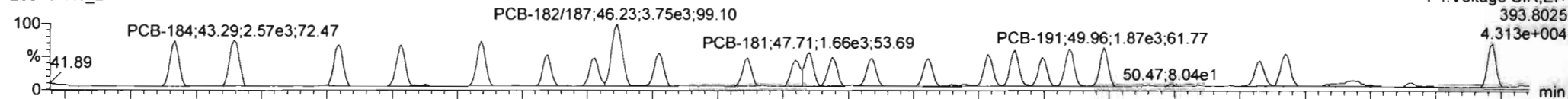
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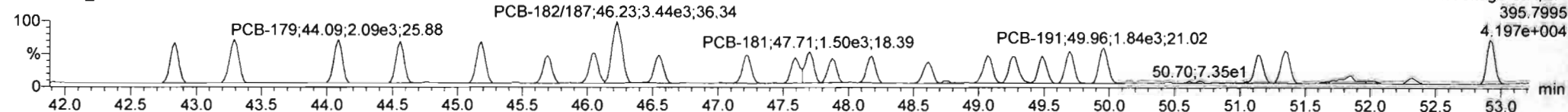
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PCB-188

200417R1\_2

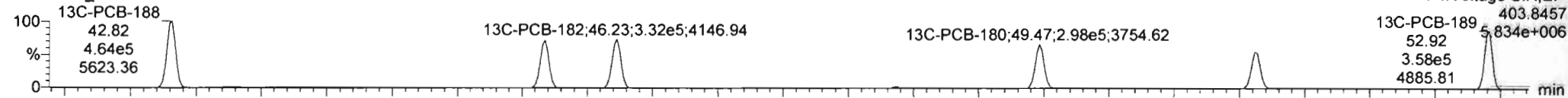


200417R1\_2

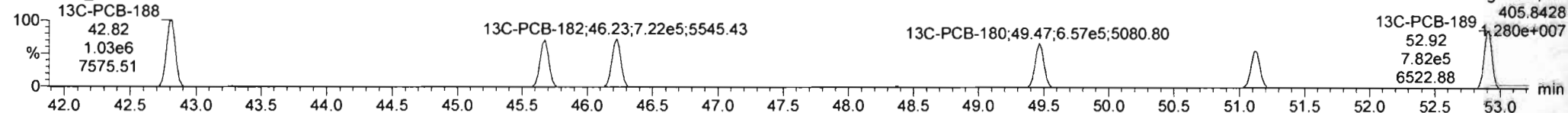


13C-PCB-188

200417R1\_2

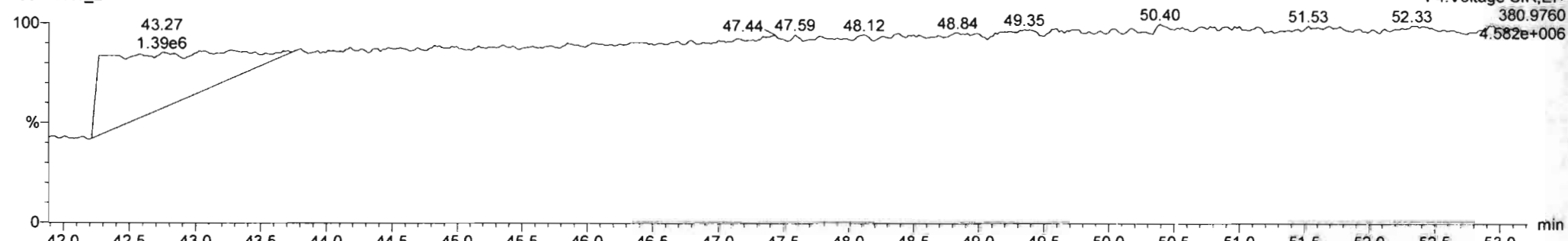


200417R1\_2



PFK4c

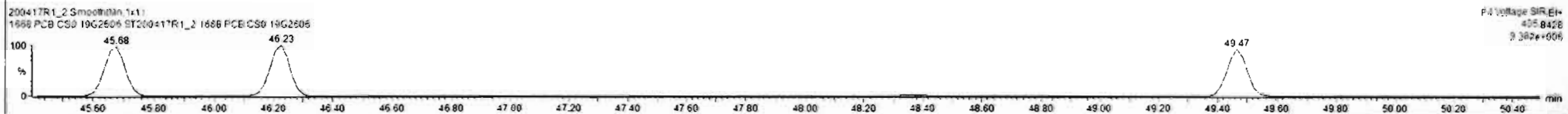
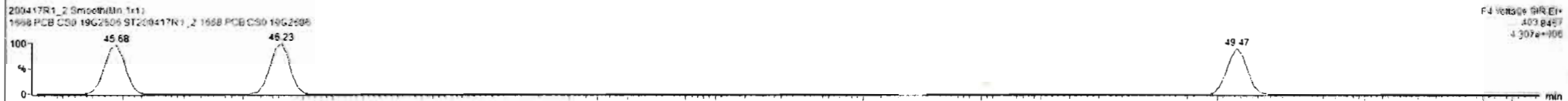
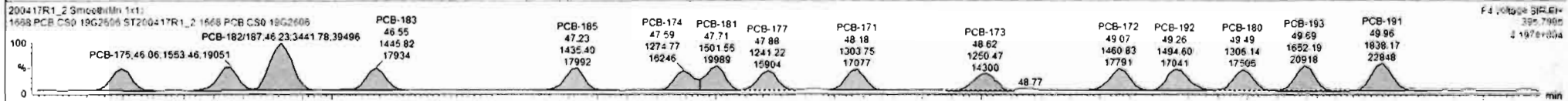
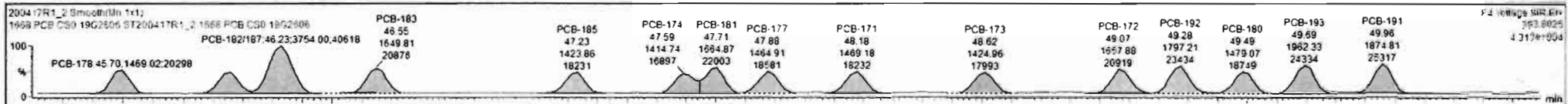
200417R1\_2



200417R1\_2 - ST200417R1\_2 1668 PCB CS0 19G2606 - 1668 PCB CS0 19G2606

Name	Resp	RA	n/y	RRF	w9vol	RT	RRT	Conc.	%Rec	DL
229 3rd Function Penta				1.256	1.00			9.25		0.473
230 4th Function Penta				0.859	1.00			1.09		0.0644
231 3rd Function Hexa				0.911	1.00			3.35		0.257
232 4th Function Hexa				0.933	1.00			6.10		0.184
233 Total Hepta-PCBs				1.314	1.00			5.50		0.371
234 4th Function Octa-				0.922	1.00			2.13		0.269
235 5th Function Octa-				0.947	1.00			0.708		0.0482
236 Total Nona-PCBs				0.900	1.00			0.687		0.0573
237 Data CR				0.956	1.00			0.947		0.0950

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-171	48.18	1.823e4	1.708e4	1.469e3	1.304e3	1.13	NO	2.772e2	0.218	0.218	0.0181
2 PCB-177	47.88	1.858e4	1.590e4	1.485e3	1.241e3	1.18	NO	2.706e2	0.228	0.228	0.0193
3 PCB-181	47.71	2.200e4	1.999e4	1.865e3	1.502e3	1.11	NO	3.166e2	0.224	0.224	0.0162
4 PCB-174	47.59	1.690e4	1.625e4	1.415e3	1.275e3	1.11	NO	2.890e2	0.219	0.219	0.0187
5 PCB-185	47.23	1.823e4	1.799e4	1.424e3	1.435e3	0.99	NO	2.859e2	0.222	0.222	0.0178
6 PCB-183	46.55	2.086e4	1.799e4	1.850e3	1.448e3	1.14	NO	3.096e2	0.214	0.214	0.0164
7 PCB-182/187	46.22	4.062e4	3.950e4	3.754e3	3.442e3	1.09	NO	7.196e2	0.463	0.463	0.0153
8 PCB-175	46.06	1.820e4	1.905e4	1.488e3	1.553e3	0.95	NO	3.041e2	0.230	0.230	0.0180
9 PCB-178	45.70	2.030e4	1.785e4	1.489e3	1.381e3	1.06	NO	2.850e2	0.215	0.215	0.0179
10 PCB-186	45.19	2.932e4	2.668e4	2.325e3	2.105e3	1.10	NO	4.430e2	0.227	0.227	0.0122



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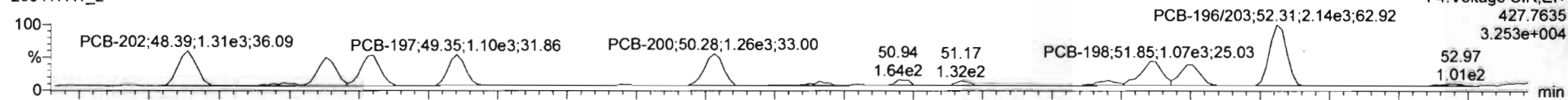
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

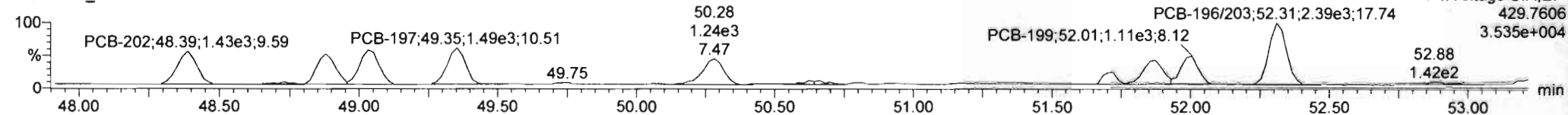
**PCB-202**

200417R1\_2



F4:Voltage SIR,EI+  
427.7635  
3.253e+004

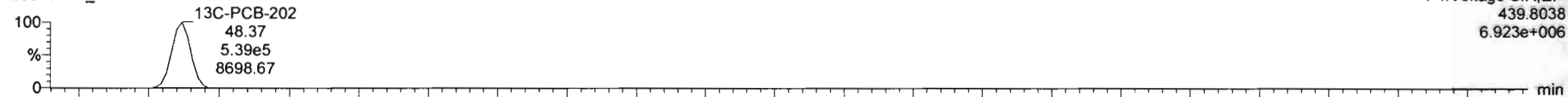
200417R1\_2



F4:Voltage SIR,EI+  
429.7606  
3.535e+004

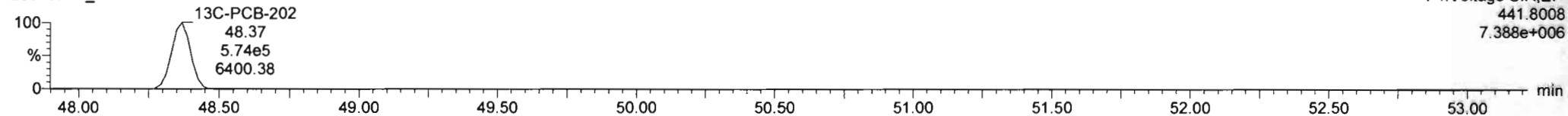
**13C-PCB-202**

200417R1\_2



F4:Voltage SIR,EI+  
439.8038  
6.923e+006

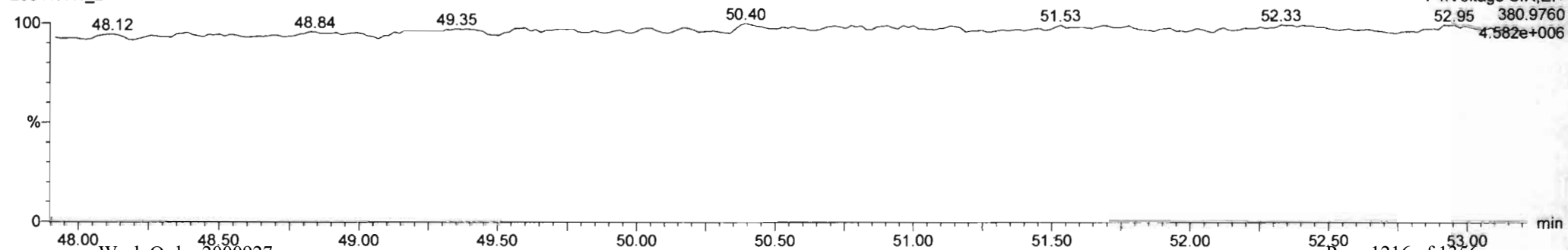
200417R1\_2



F4:Voltage SIR,EI+  
441.8008  
7.388e+006

**PFK4d**

200417R1\_2

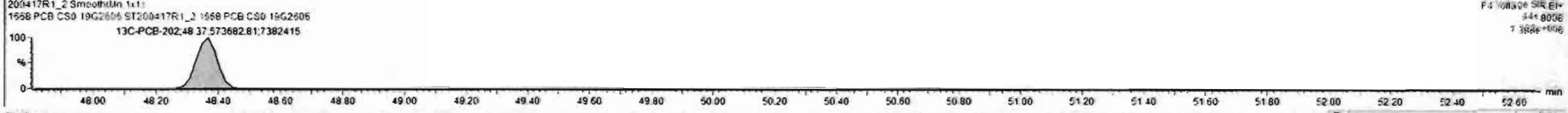
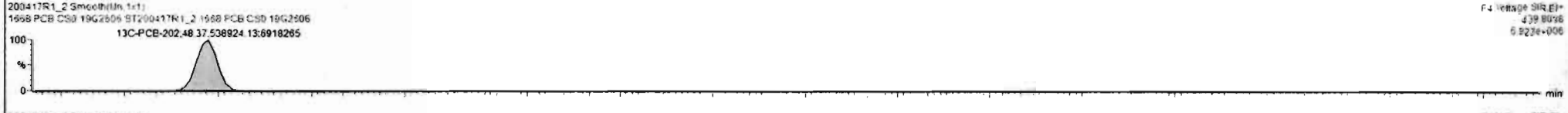
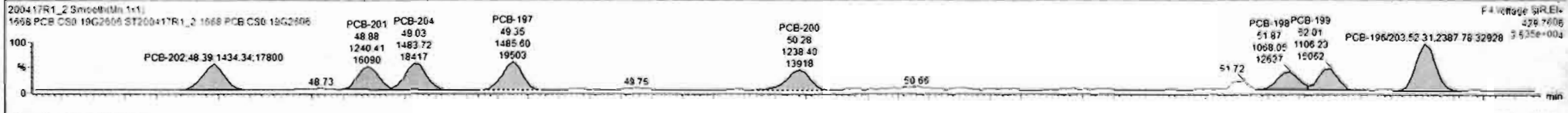
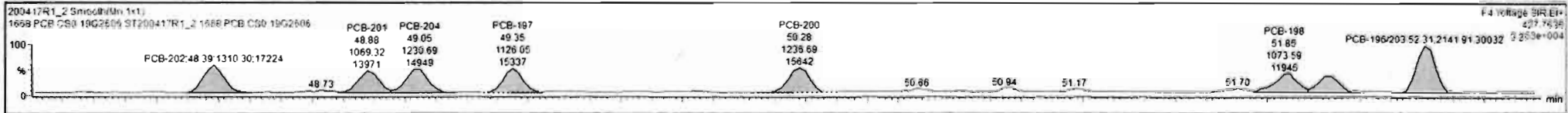


F4:Voltage SIR,EI+  
52.95 380.9760  
4.582e+006



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL
229 3rd Function Penta				1.256	1.00			9.25		0.473
230 4th Function Penta				0.859	1.00			1.09		0.0644
231 3rd Function Hexa				0.911	1.00			3.35		0.257
232 4th Function Hexa				0.933	1.00			6.10		0.184
233 Total Hepta-PCBs				1.314	1.00			5.50		0.371
234 4th Function Octa-				0.922	1.00			2.13		0.289
235 5th Function Octa-				0.947	1.00			0.708		0.0482
236 Total Nona-PCBs				0.900	1.00			0.687		0.0573
237 Total PAHs				0.658	1.00			0.747		0.0540

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-195-202	52.31	3.903e4	3.292e4	2.142e3	2.388e3	0.90	NO	4.530e3	0.484	0.484	0.0396
2 PCB-199	52.01	1.024e4	1.506e4	6.605e2	1.106e3	0.78	NO	1.987e3	0.241	0.241	0.0446
3 PCB-196	51.85	1.195e4	1.264e4	1.074e3	1.068e3	1.00	NO	2.142e3	0.256	0.256	0.0434
4 PCB-206	50.28	1.564e4	1.392e4	1.237e3	1.238e3	1.00	NO	2.475e3	0.228	0.228	0.0335
5 PCB-197	49.35	1.534e4	1.950e4	1.126e3	1.486e3	0.76	NO	2.612e3	0.229	0.229	0.0319
6 PCB-204	49.05	1.495e4	1.842e4	1.231e3	1.484e3	0.83	NO	2.714e3	0.237	0.237	0.0217
7 PCB-201	48.88	1.397e4	1.609e4	1.059e3	1.240e3	0.86	NO	2.310e3	0.215	0.215	0.0345
8 PCB-202	48.39	1.722e4	1.780e4	1.310e3	1.434e3	0.91	NO	2.745e3	0.226	0.226	0.0300



Dataset: Untitled

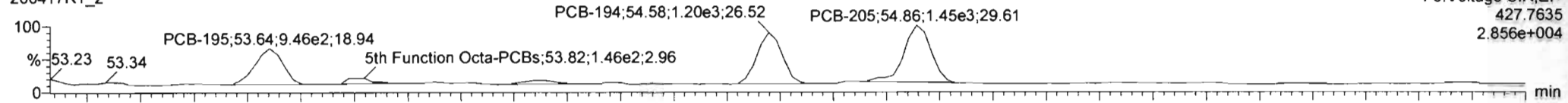
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

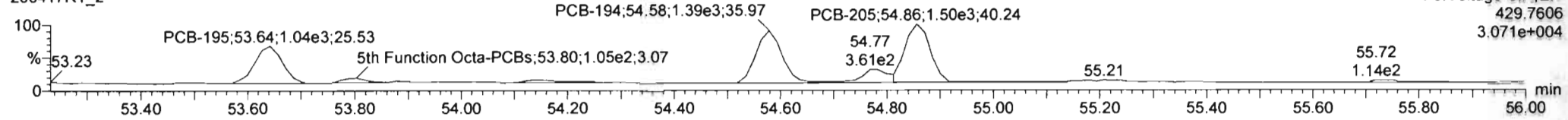
Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

**PCB-195**

200417R1\_2

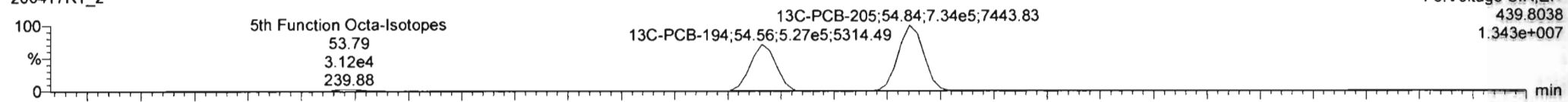


200417R1\_2

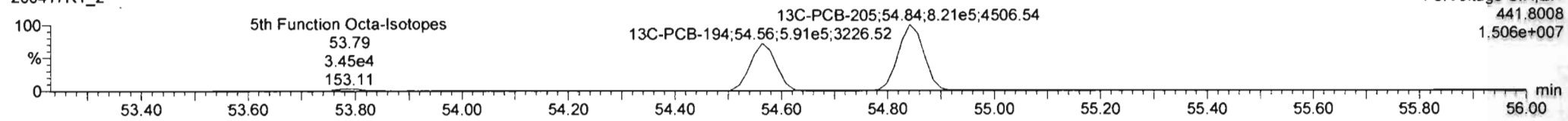


**13C-PCB-194**

200417R1\_2

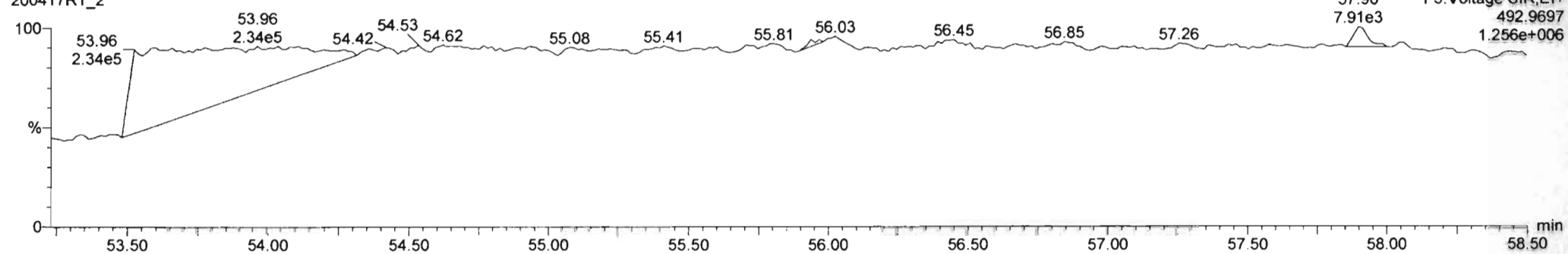


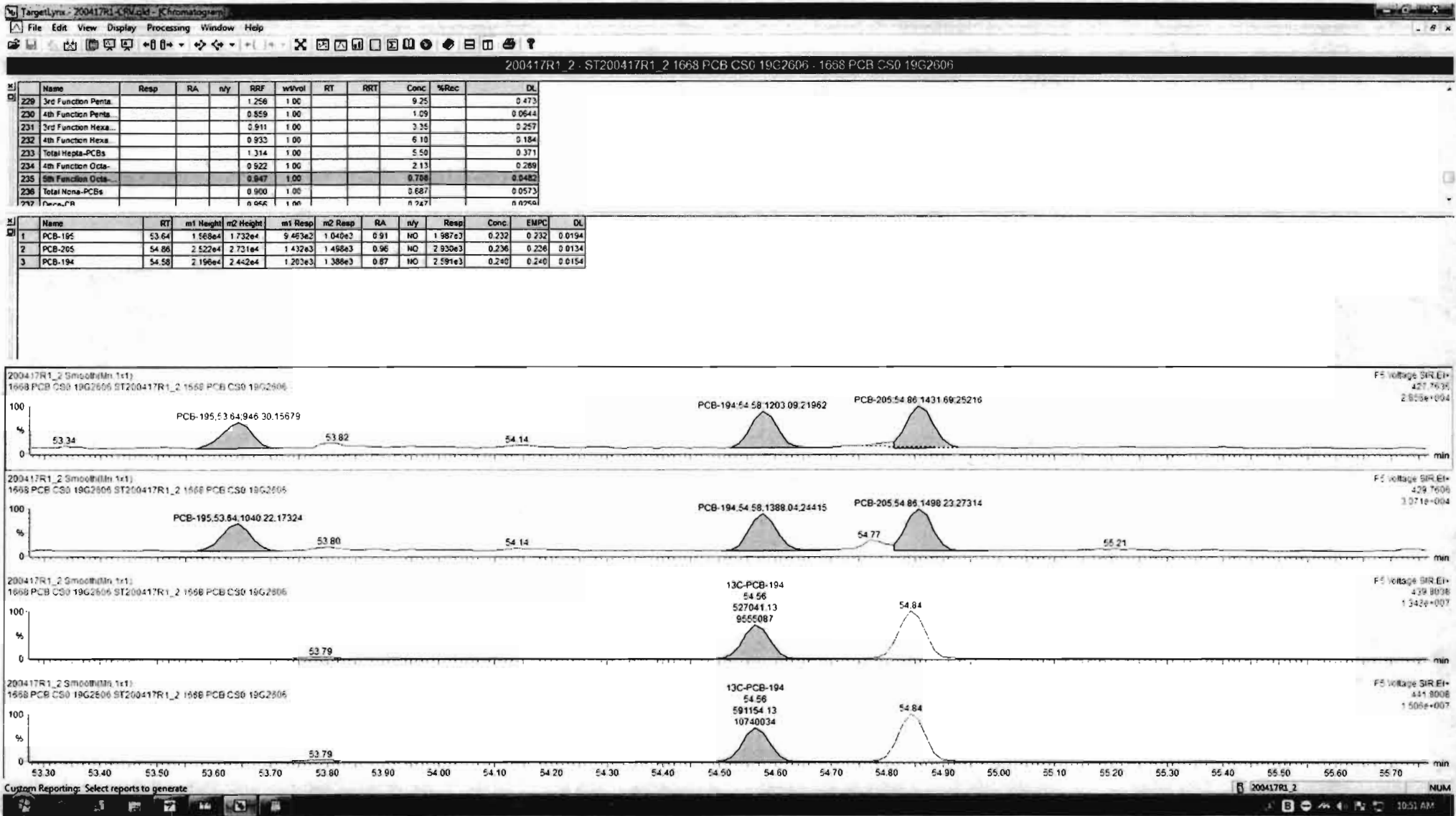
200417R1\_2



**PFK5**

200417R1\_2





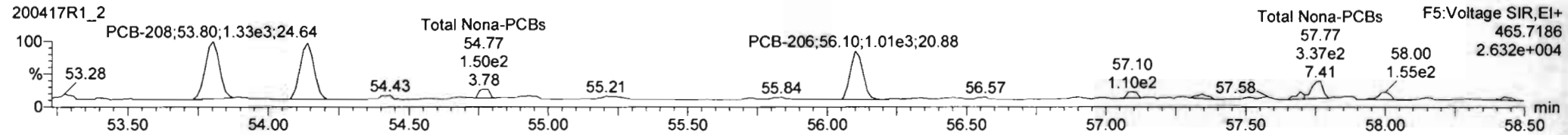
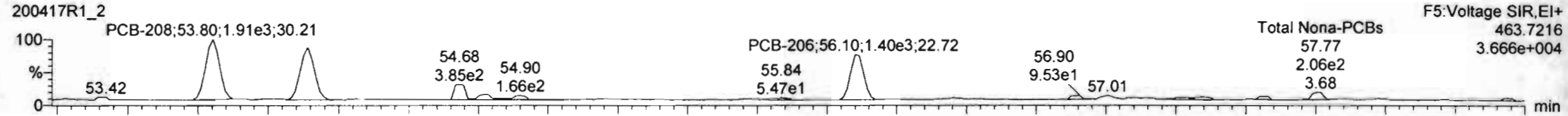
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

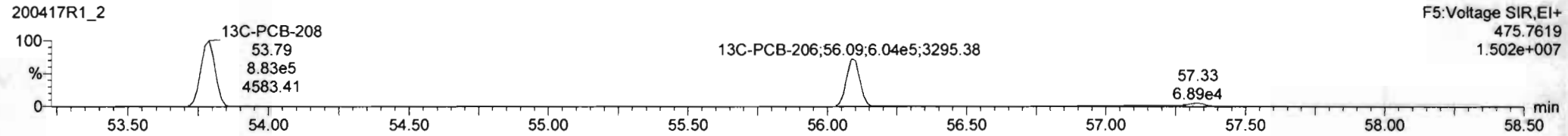
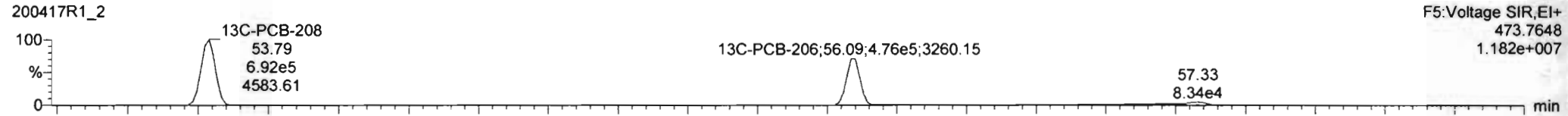
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_2, Date: 17-Apr-2020, Time: 17:04:35, ID: ST200417R1\_2 1668 PCB CS0 19G2606, Description: 1668 PCB CS0 19G2606

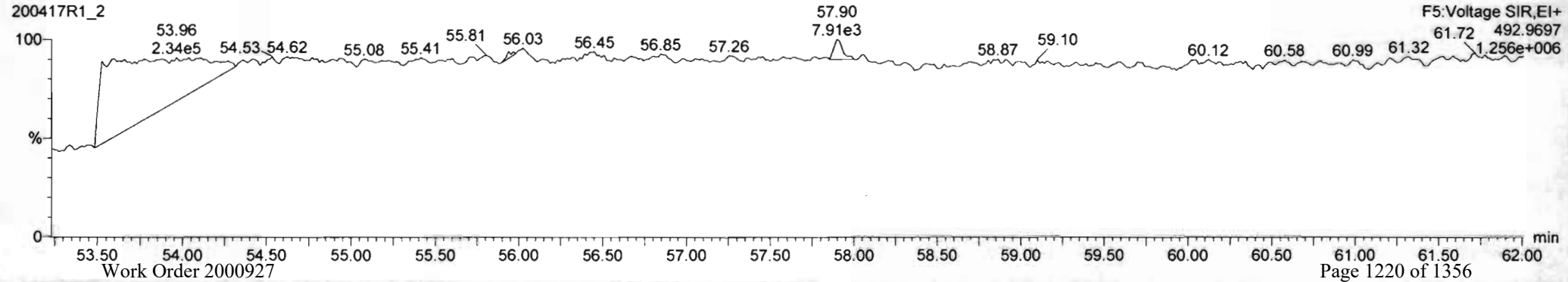
PCB-208



13C-PCB-208



PFK5a



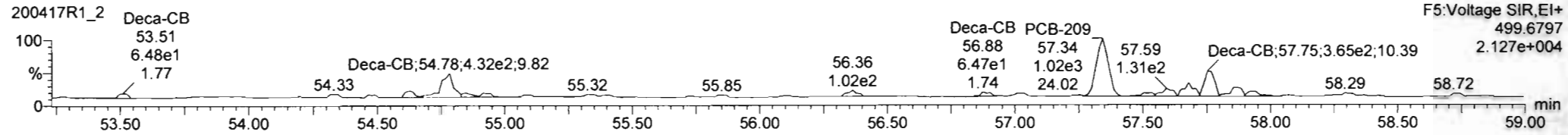
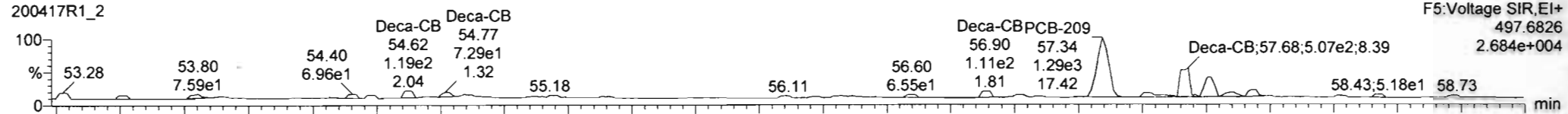
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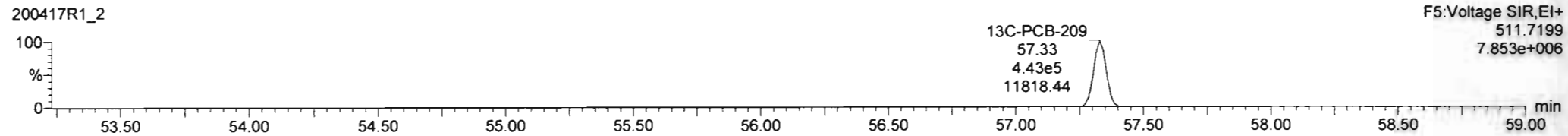
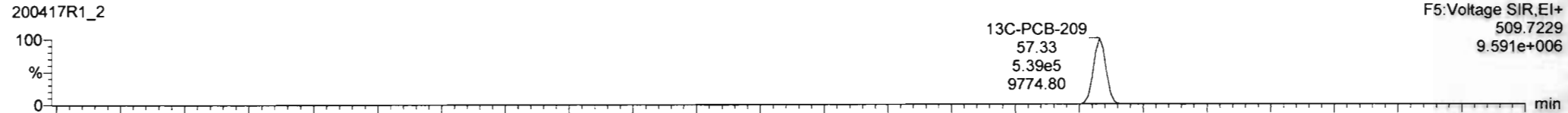
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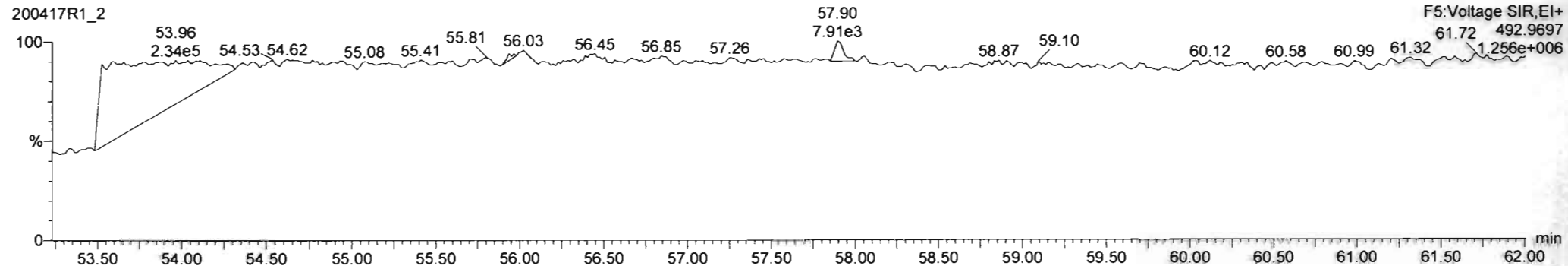
**PCB-209**



**13C-PCB-209**



**PFK5b**



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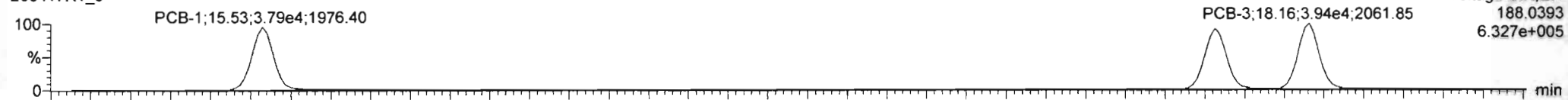
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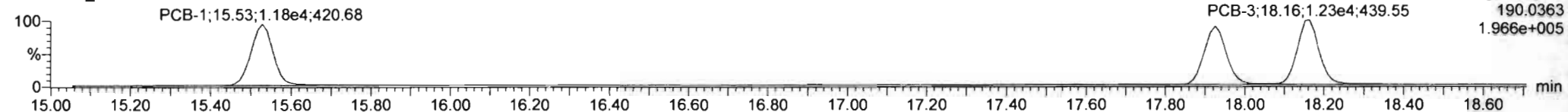
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**PCB-1**

200417R1\_3

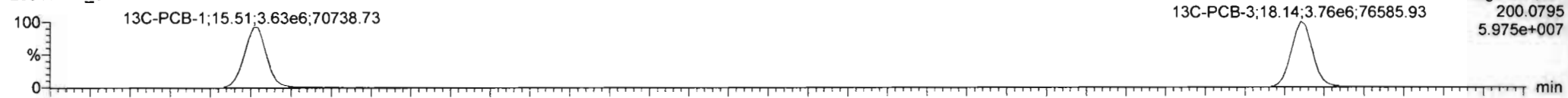


200417R1\_3

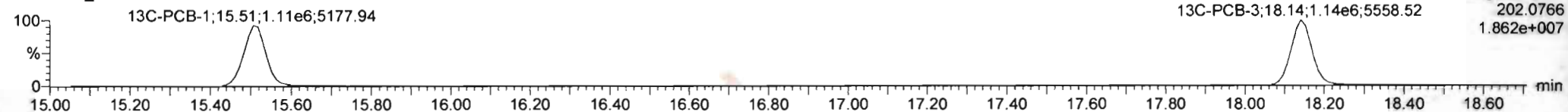


**13C-PCB-1**

200417R1\_3

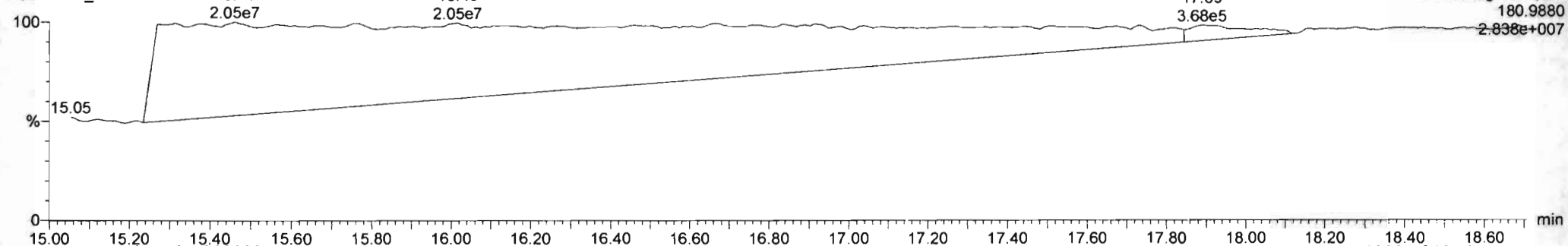


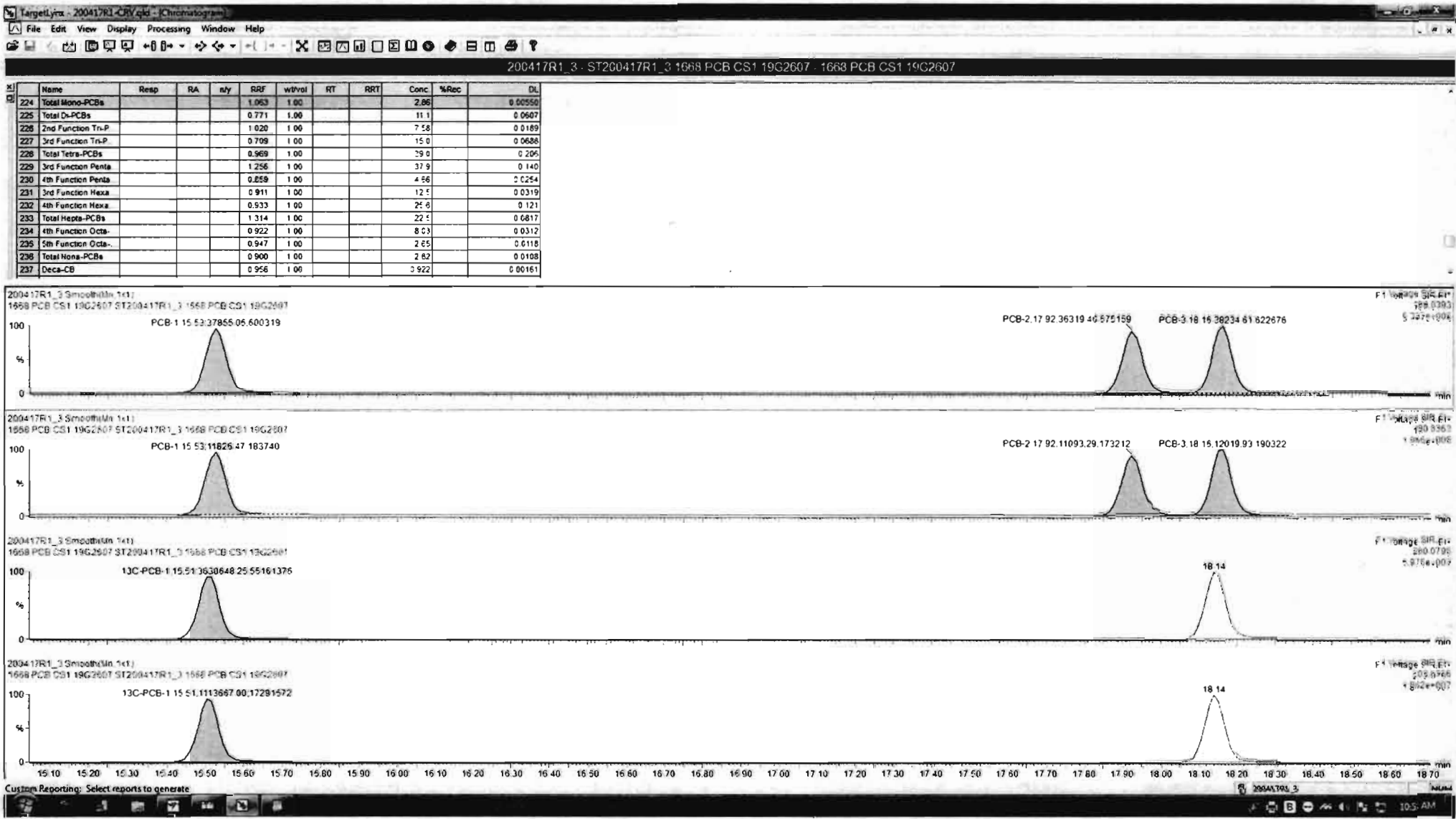
200417R1\_3



**PFK1**

200417R1\_3





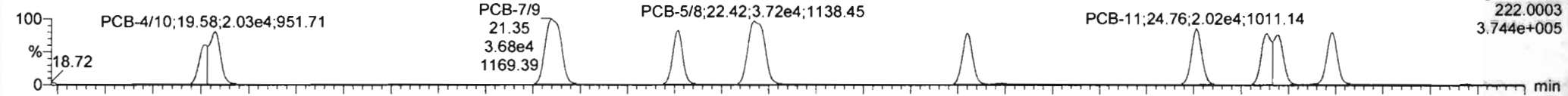
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

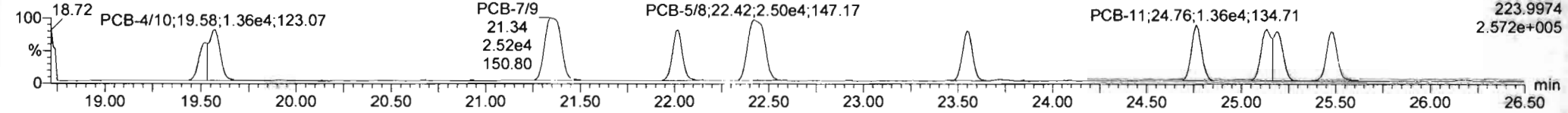
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**PCB-4/10**

200417R1\_3

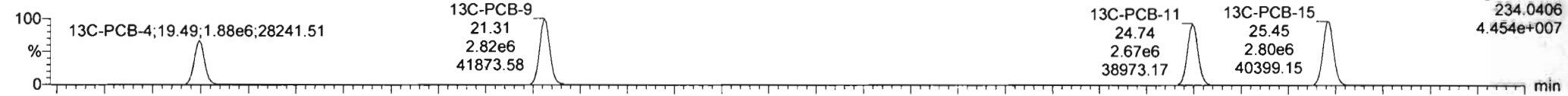


200417R1\_3

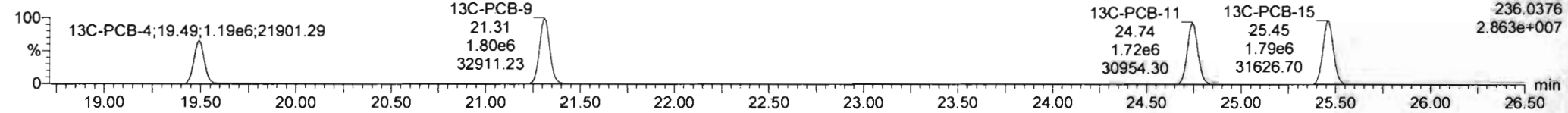


**13C-PCB-4**

200417R1\_3

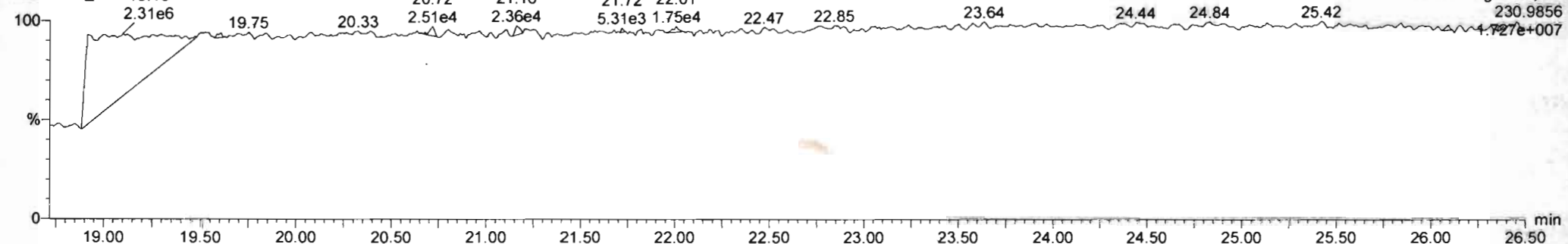


200417R1\_3

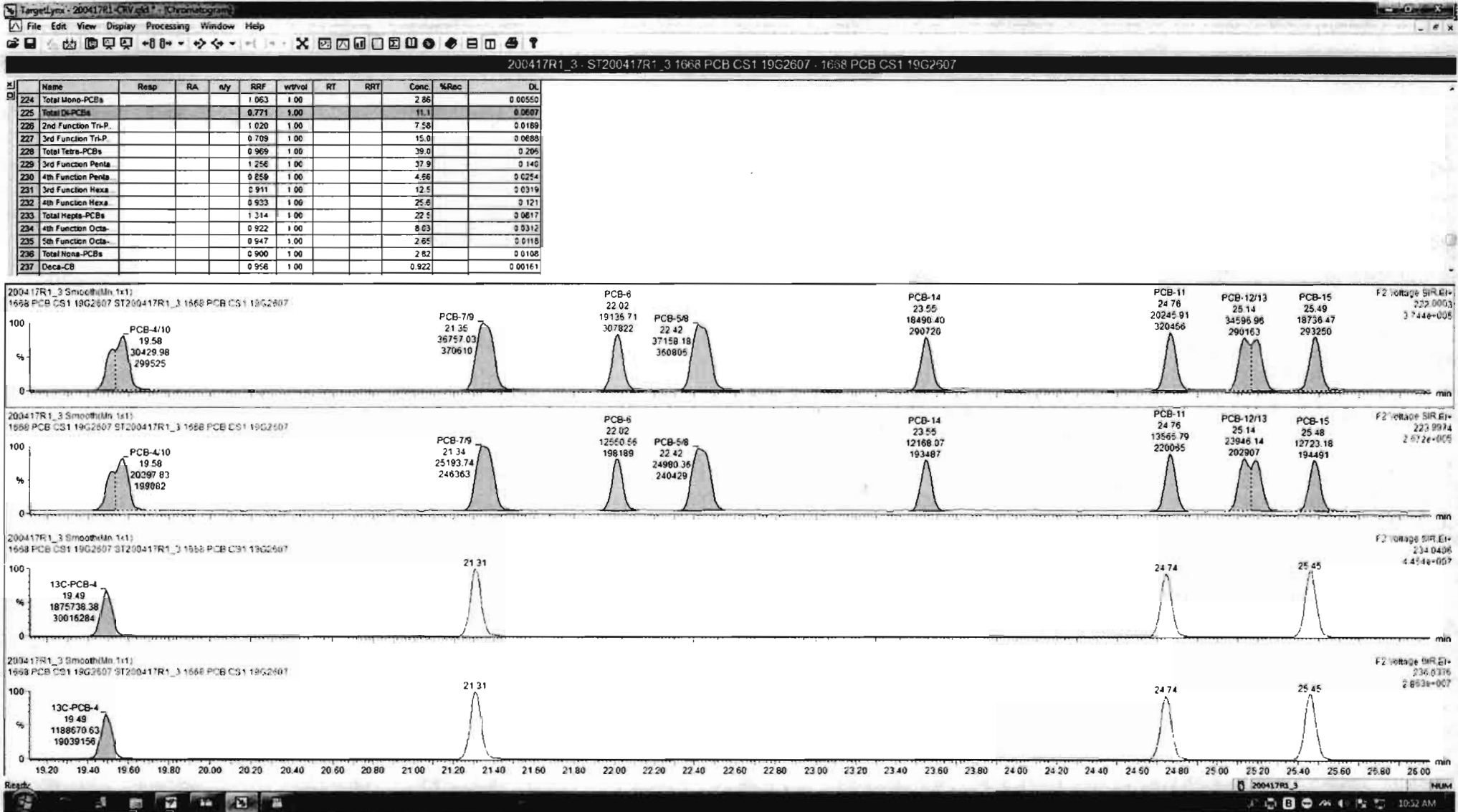


**PFK2a**

200417R1\_3







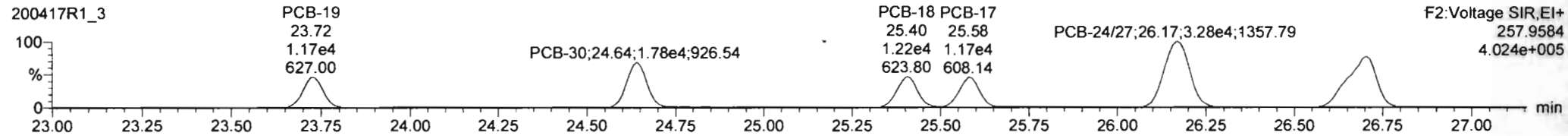
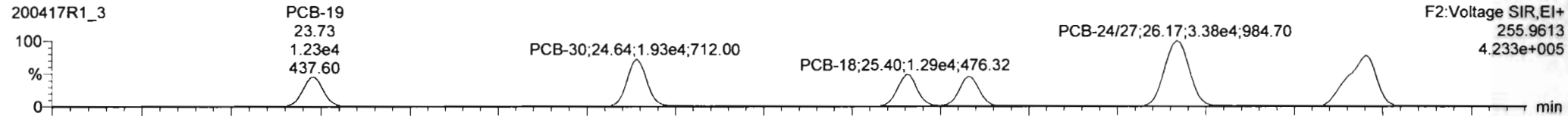
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

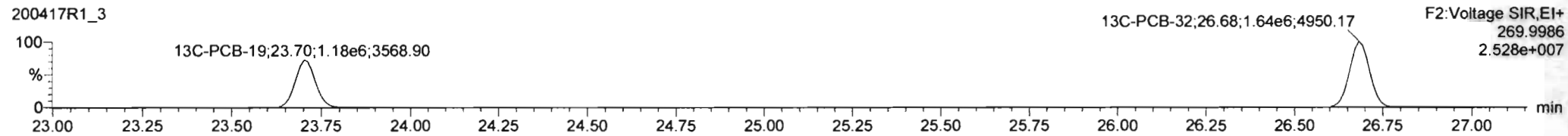
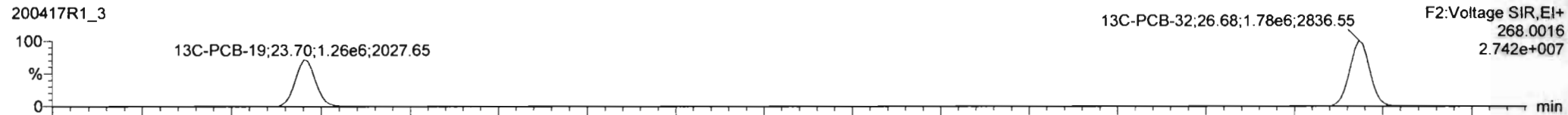
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Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

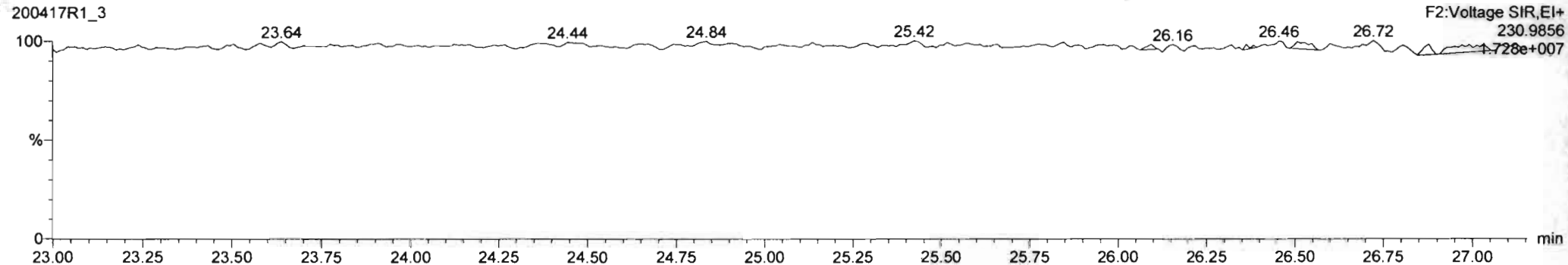
**PCB-19**



**13C-PCB-19**



**PFK2b**

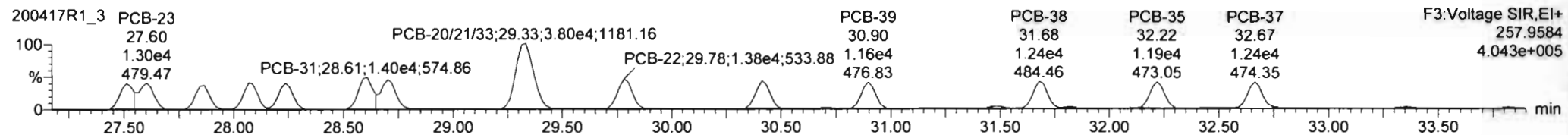
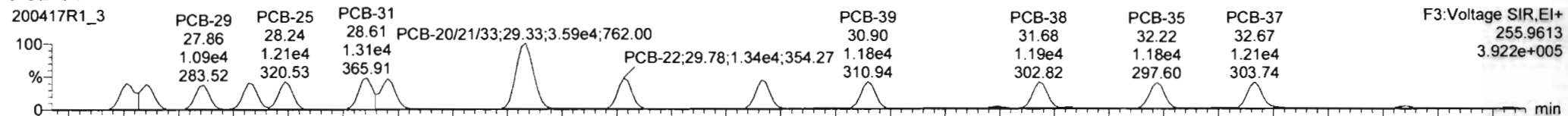


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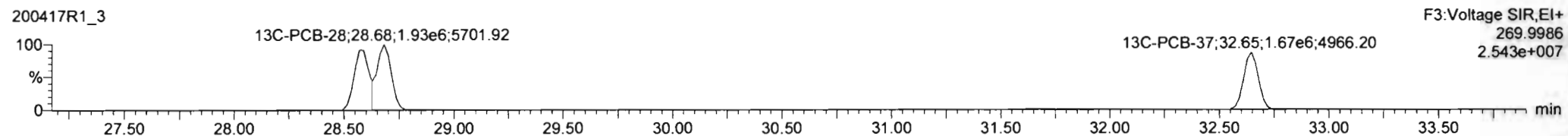
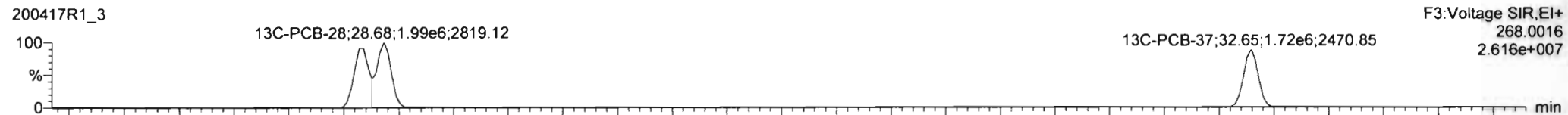
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Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

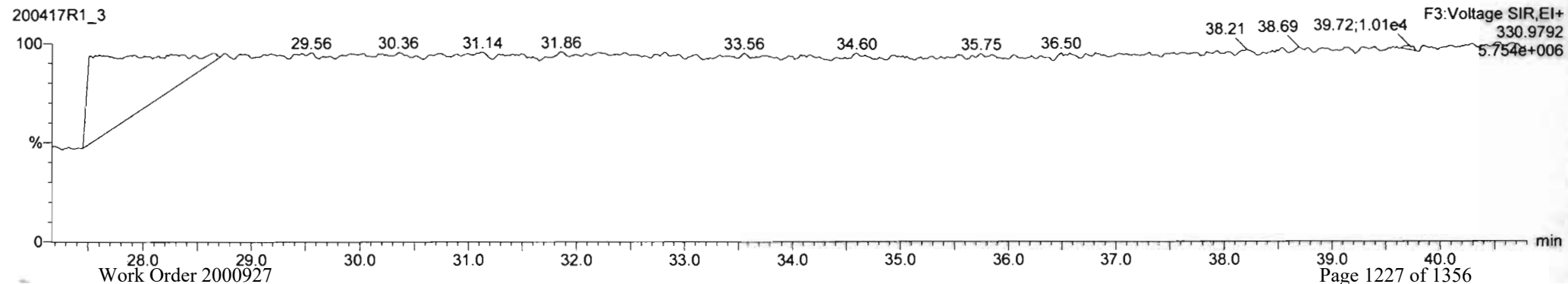
**PCB-34**

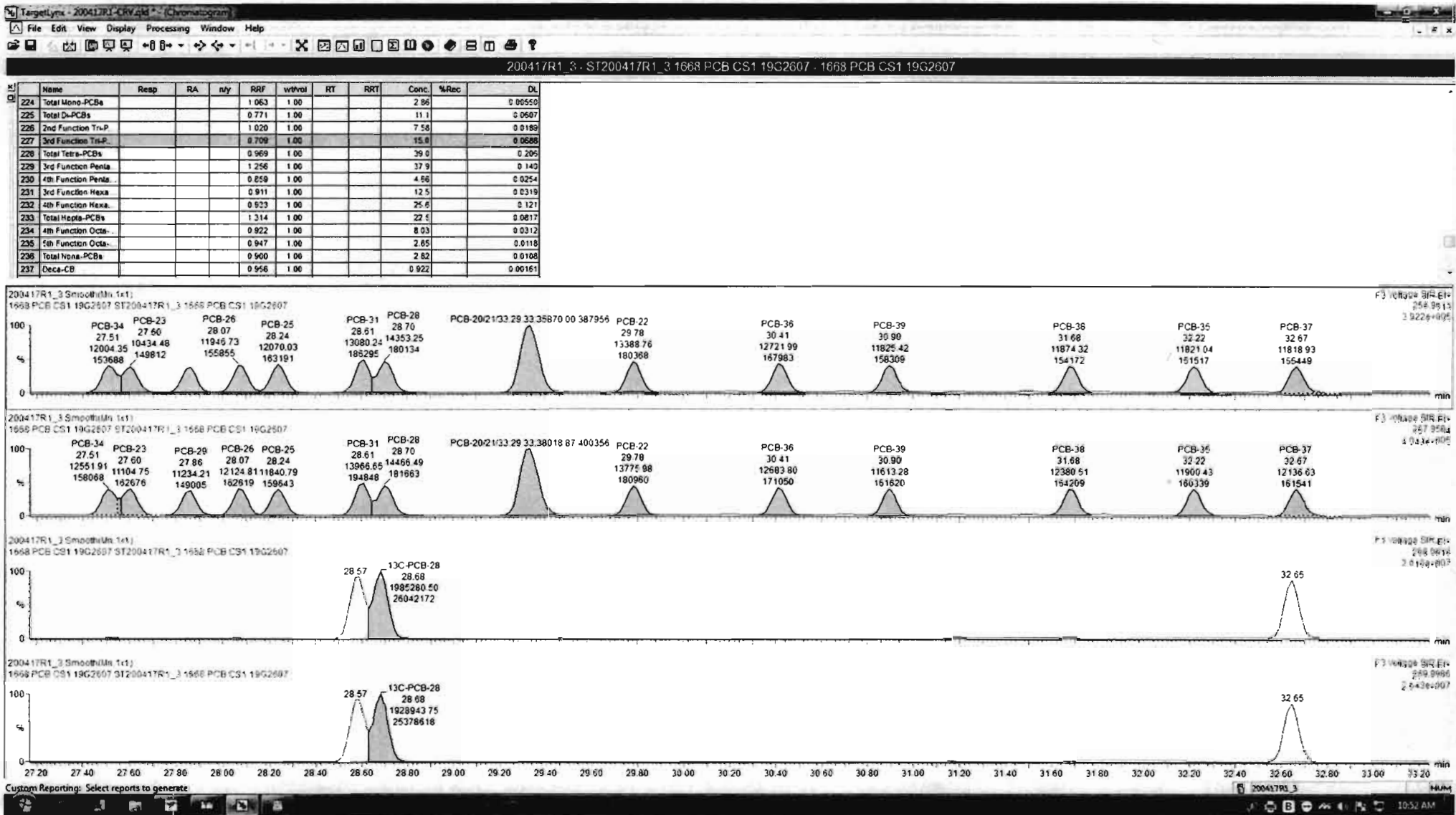


**13C-PCB-28**



**PFK3a**





Dataset: Untitled

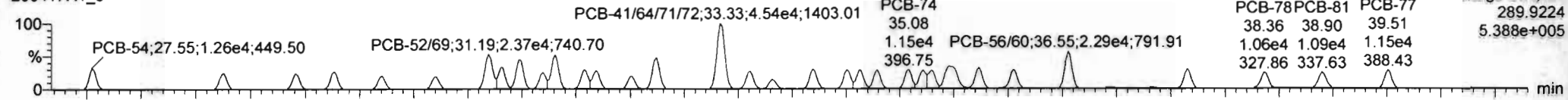
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

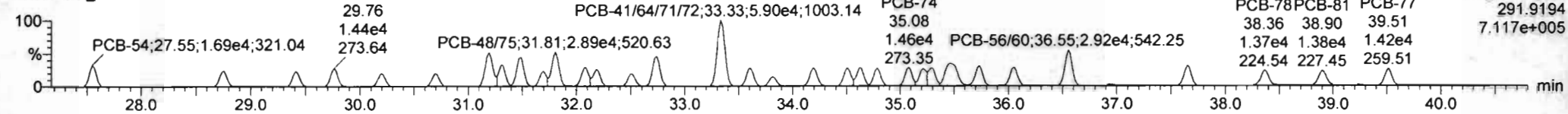
Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

**PCB-54**

200417R1\_3

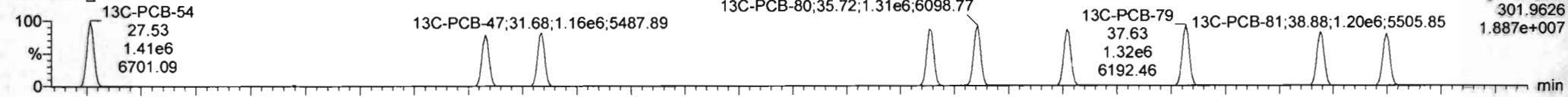


200417R1\_3

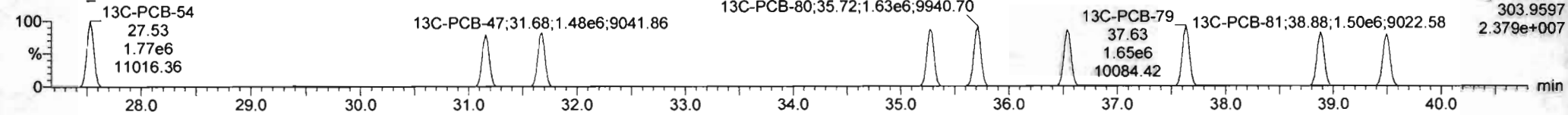


**13C-PCB-54**

200417R1\_3

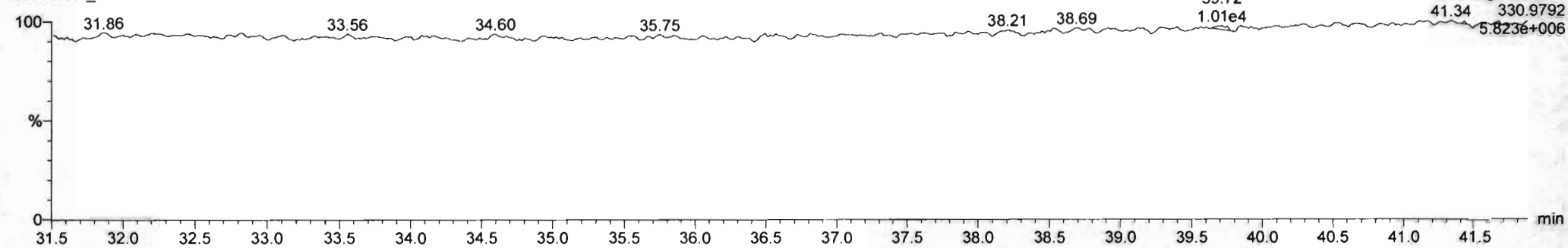


200417R1\_3



**PFK3b**

200417R1\_3



Dataset: Untitled

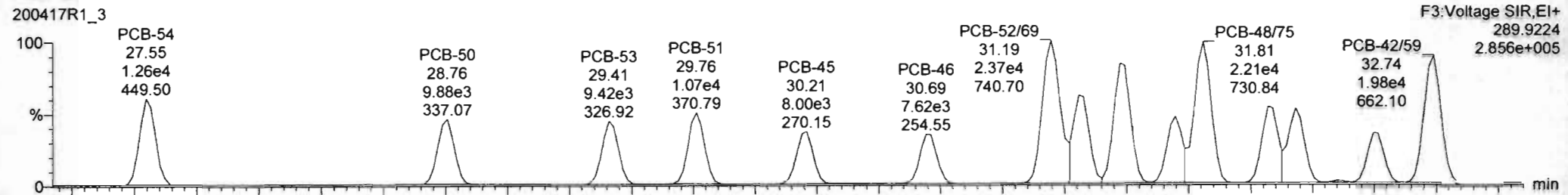
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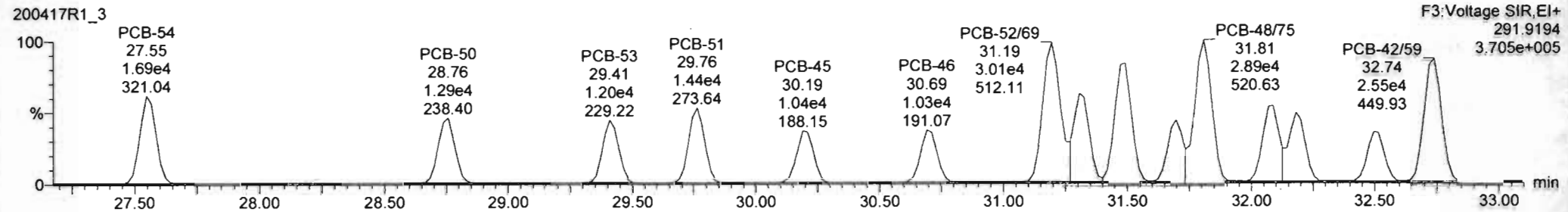
Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

PCB-50

200417R1\_3

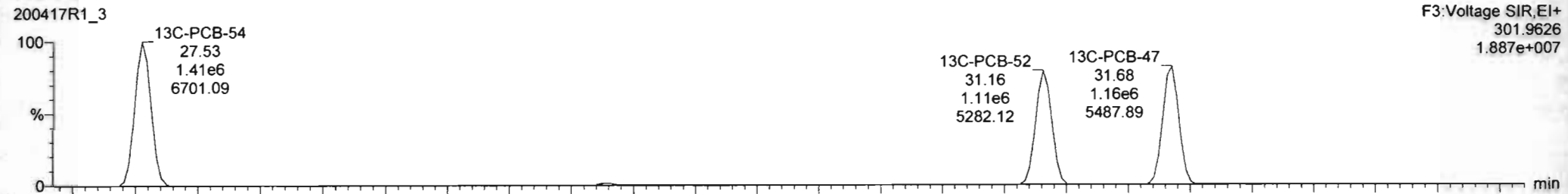


200417R1\_3

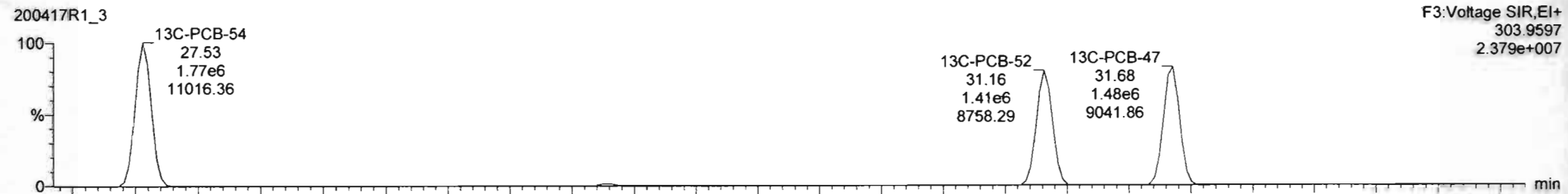


13C-PCB-52

200417R1\_3



200417R1\_3



Dataset: Untitled

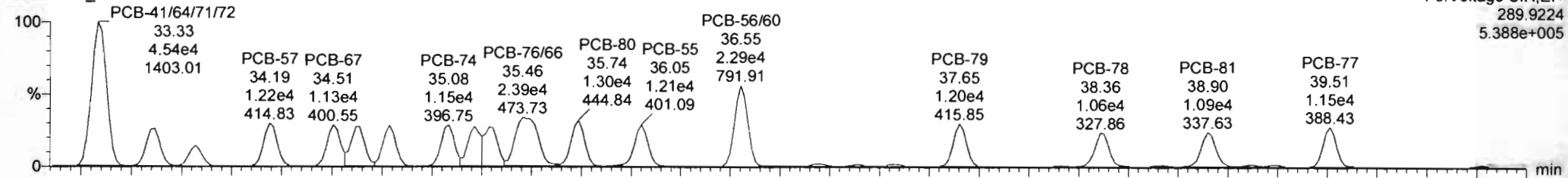
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

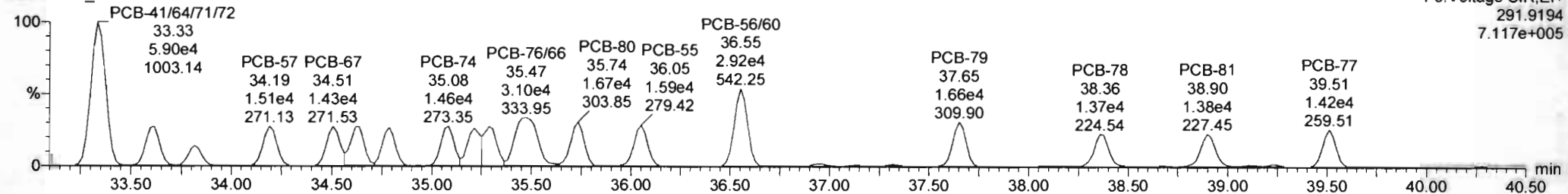
**PCB-68**

200417R1\_3



F3:Voltage SIR,EI+  
289.9224  
5.388e+005

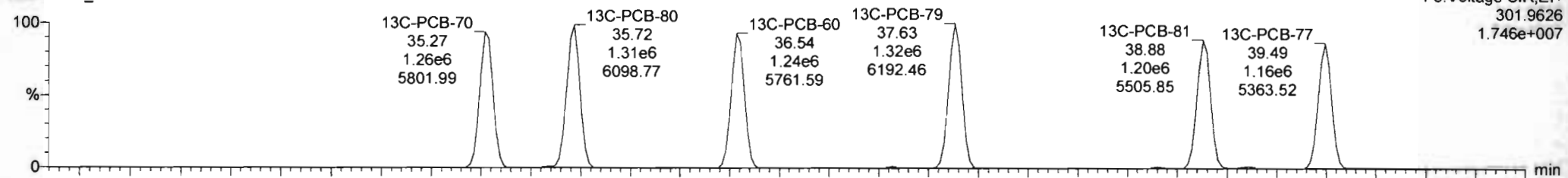
200417R1\_3



F3:Voltage SIR,EI+  
291.9194  
7.117e+005

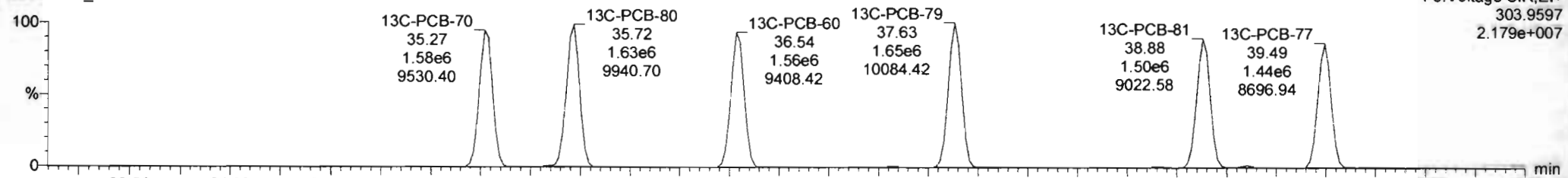
**13C-PCB-60**

200417R1\_3

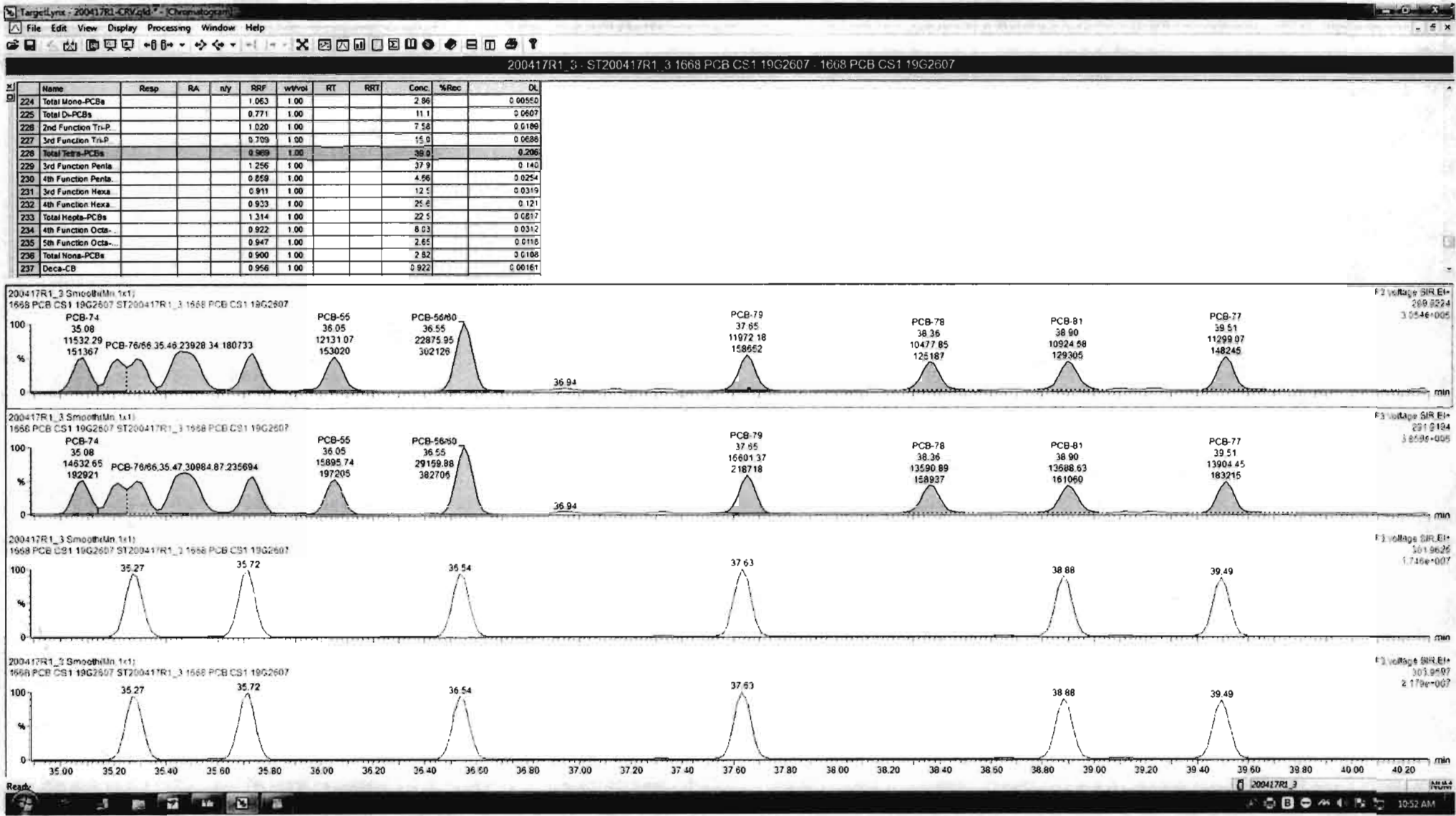


F3:Voltage SIR,EI+  
301.9626  
1.746e+007

200417R1\_3



F3:Voltage SIR,EI+  
303.9597  
2.179e+007



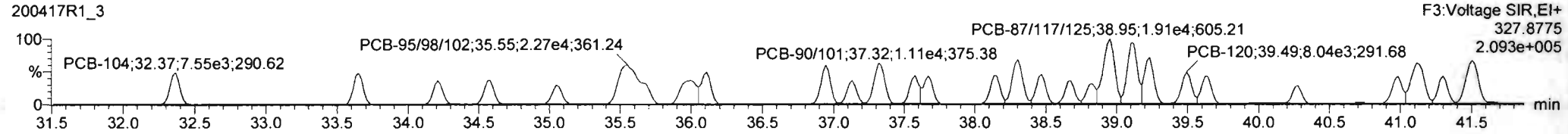
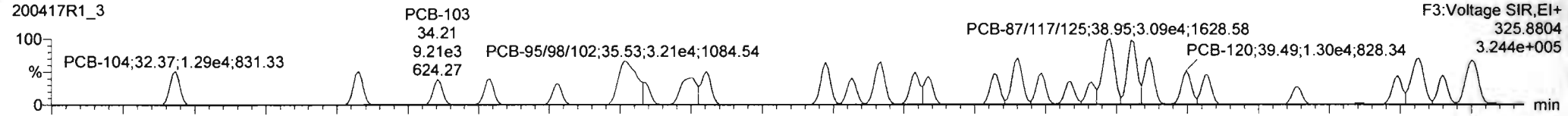


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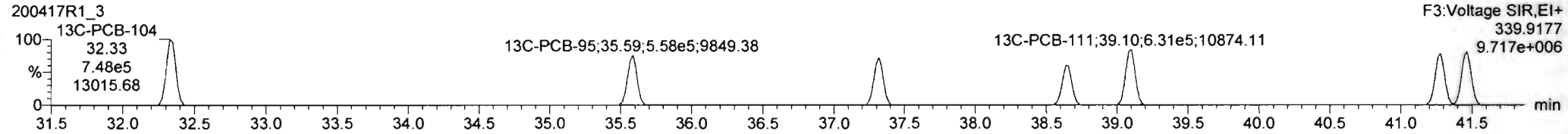
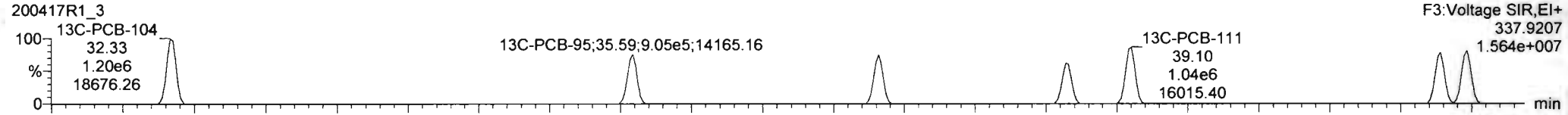
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

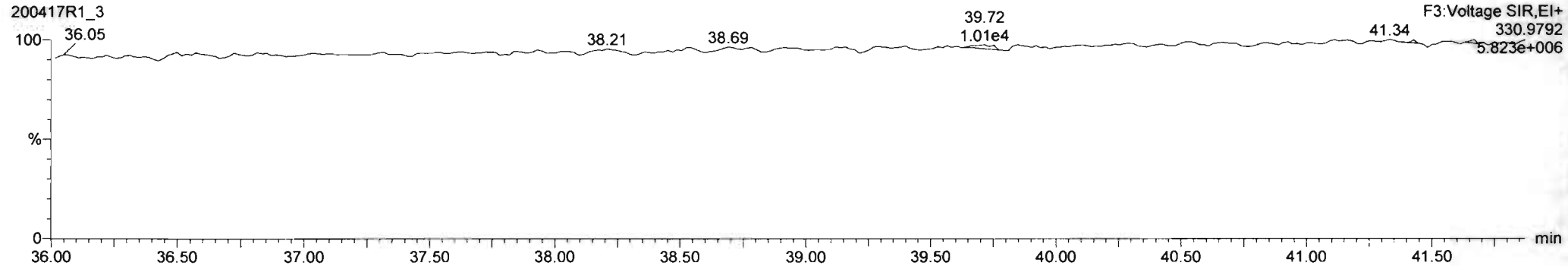
**PCB-104**



**13C-PCB-104**



**PFK3c**



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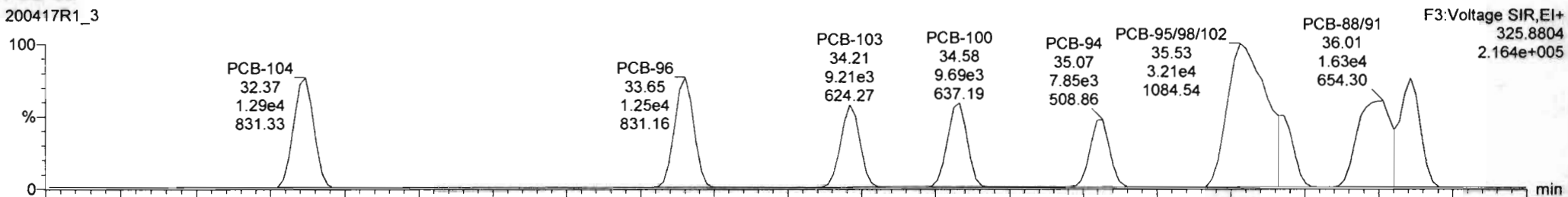
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

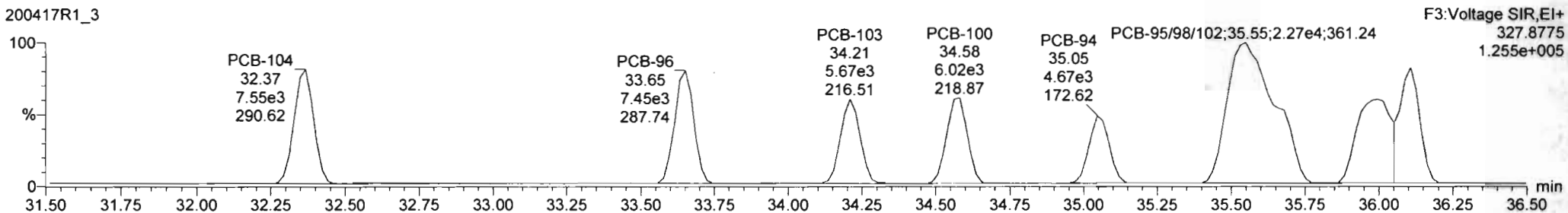
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PCB-96

200417R1\_3

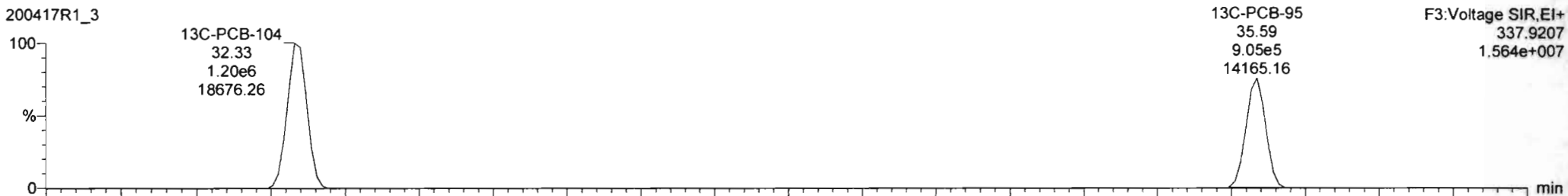


200417R1\_3

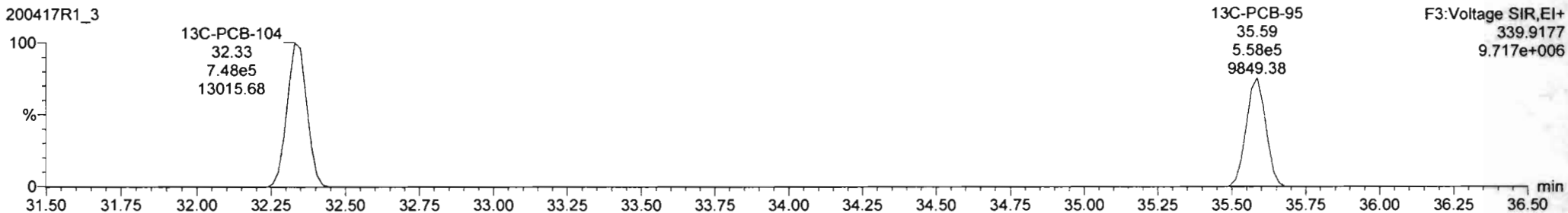


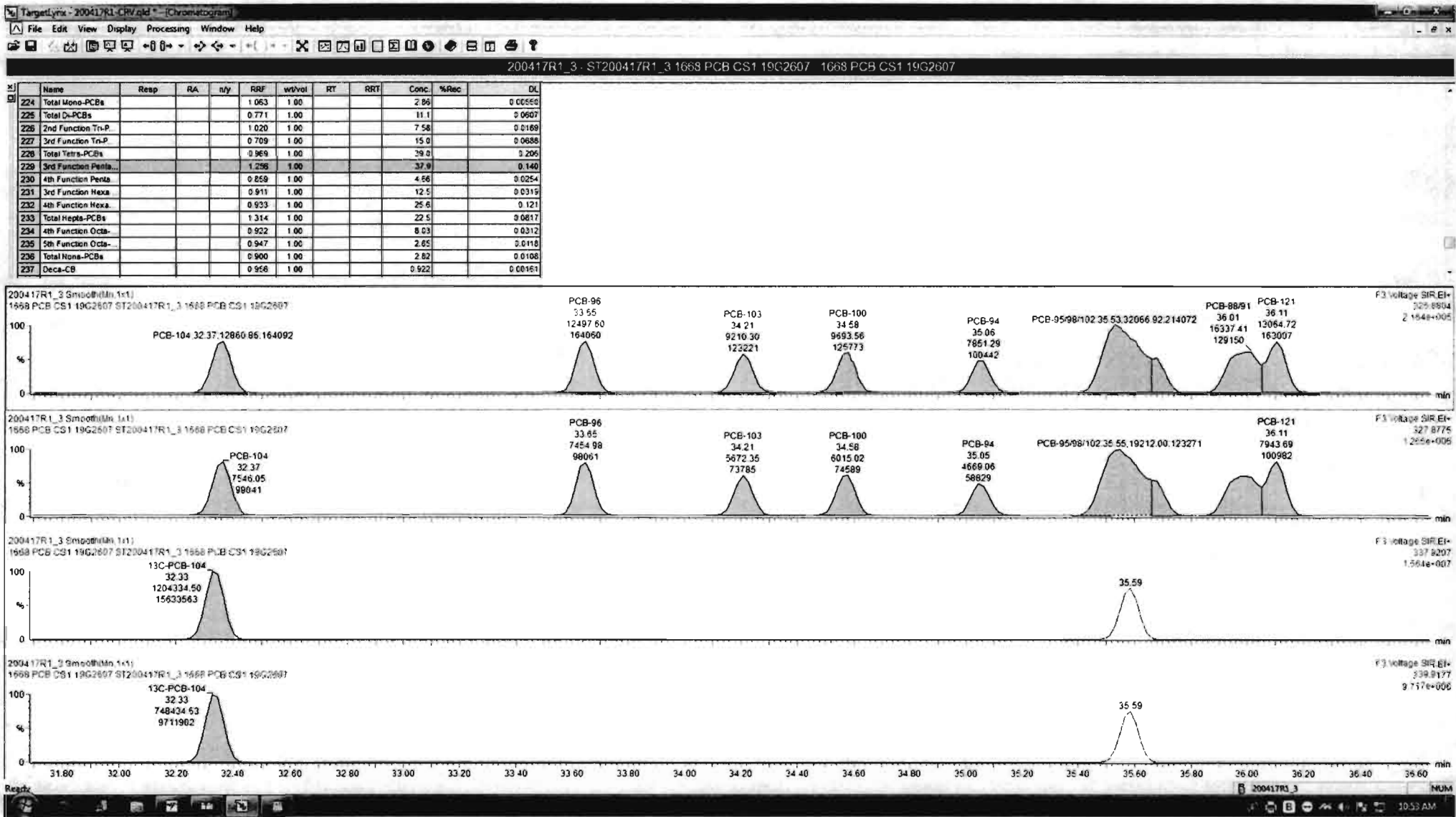
13C-PCB-95

200417R1\_3



200417R1\_3





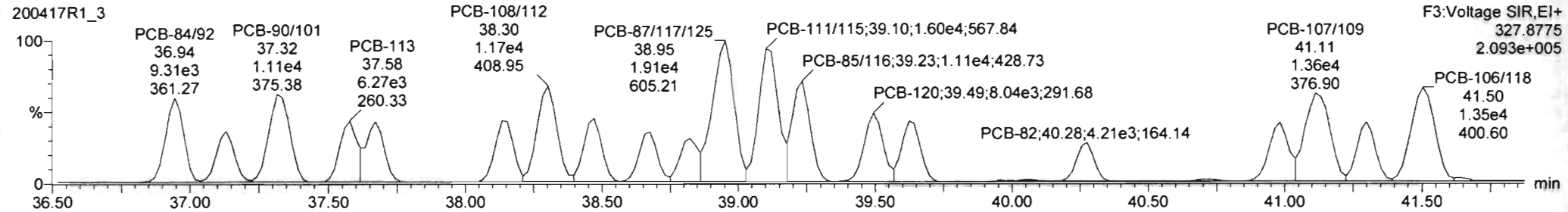
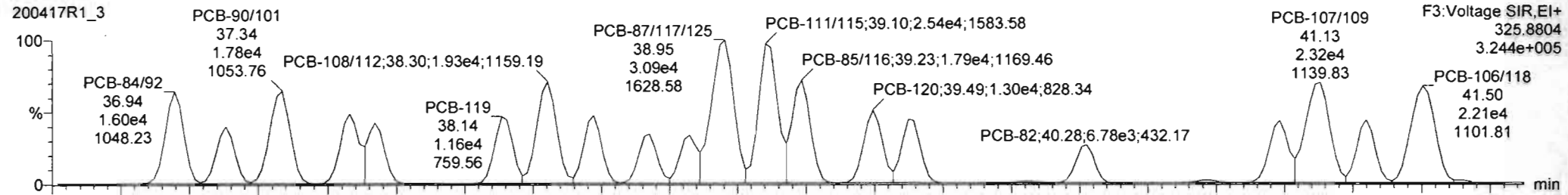
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

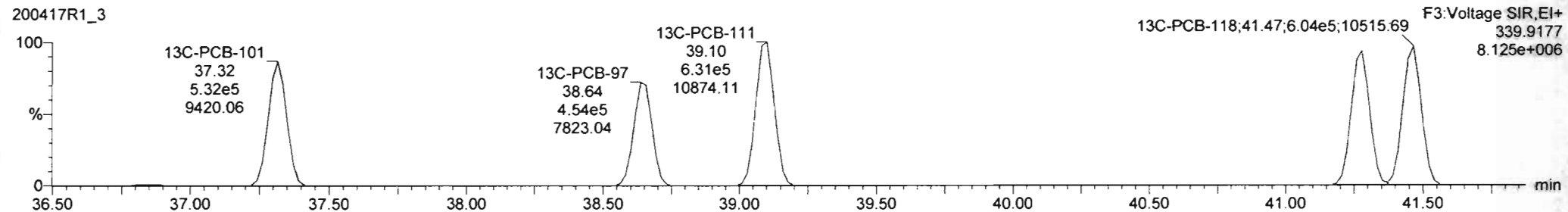
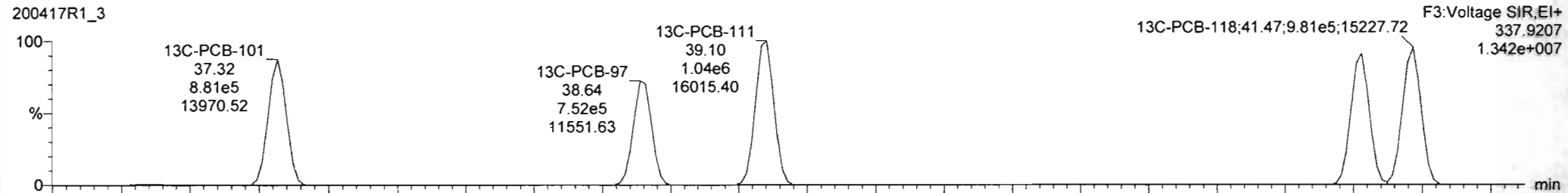
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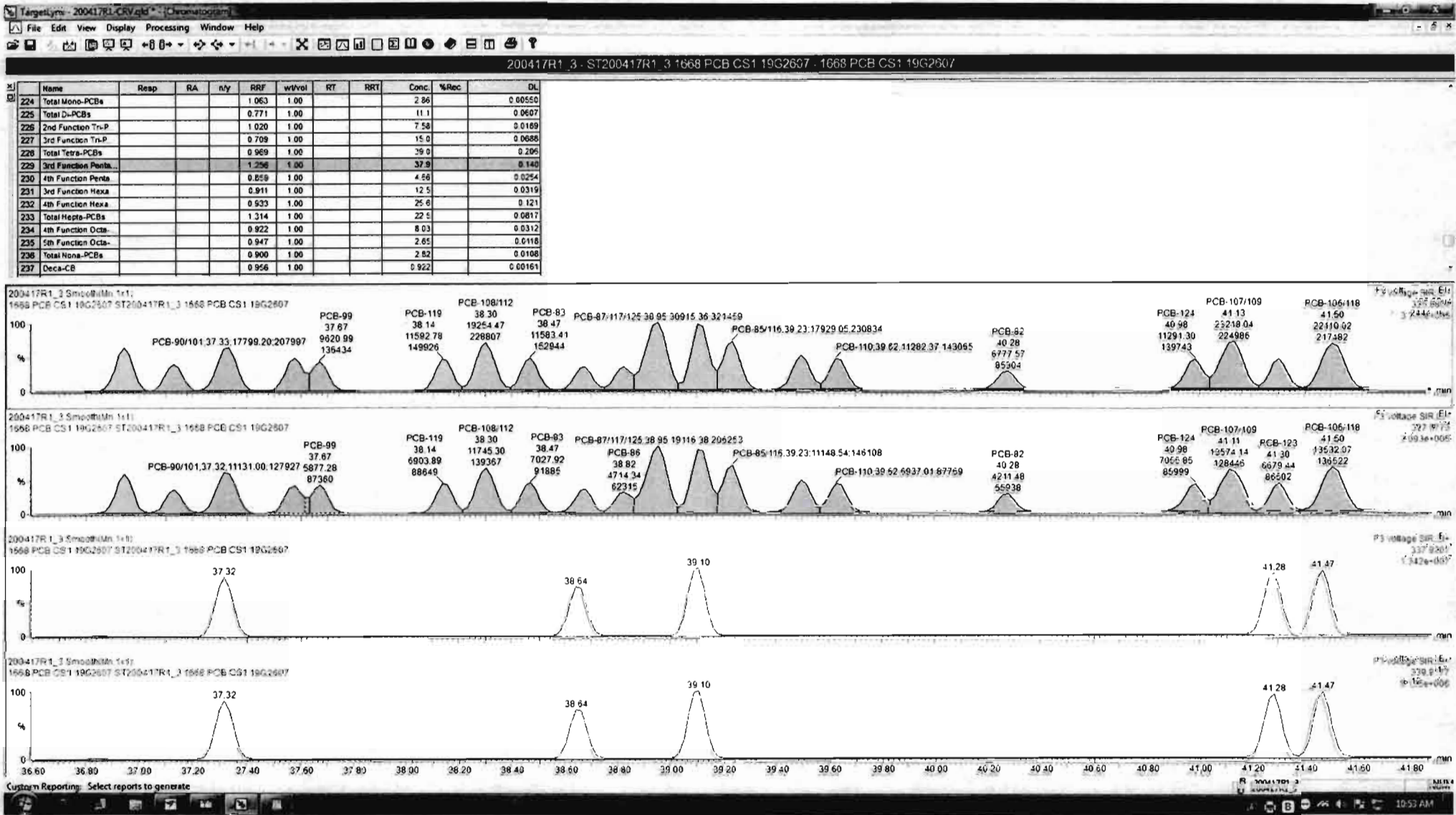
Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

**PCB-119**



**13C-PCB-111**





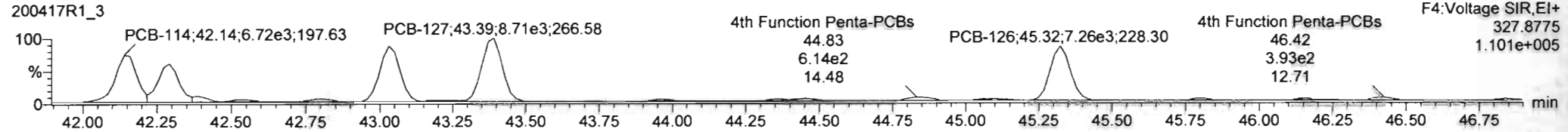
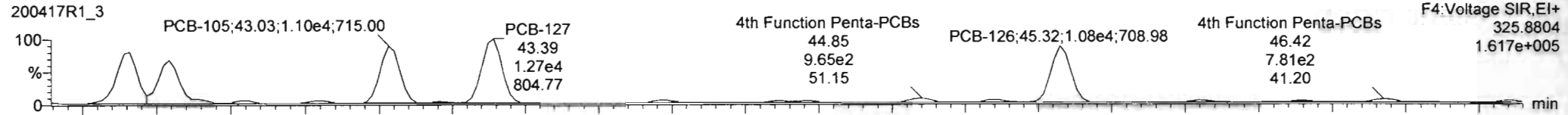
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

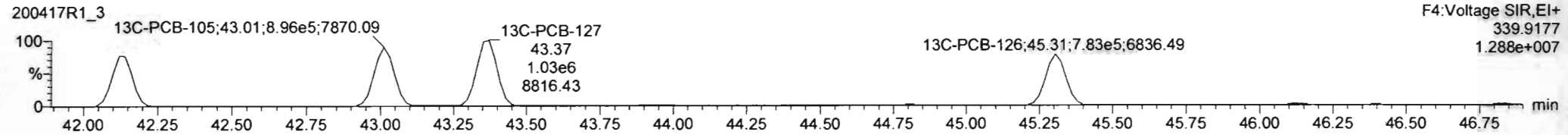
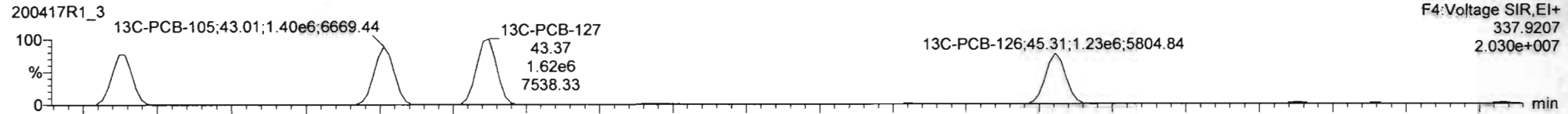
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

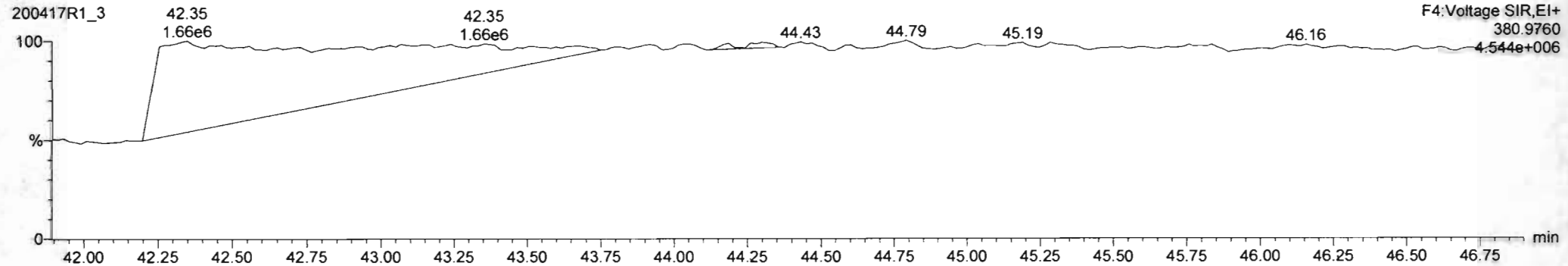
**PCB-114**

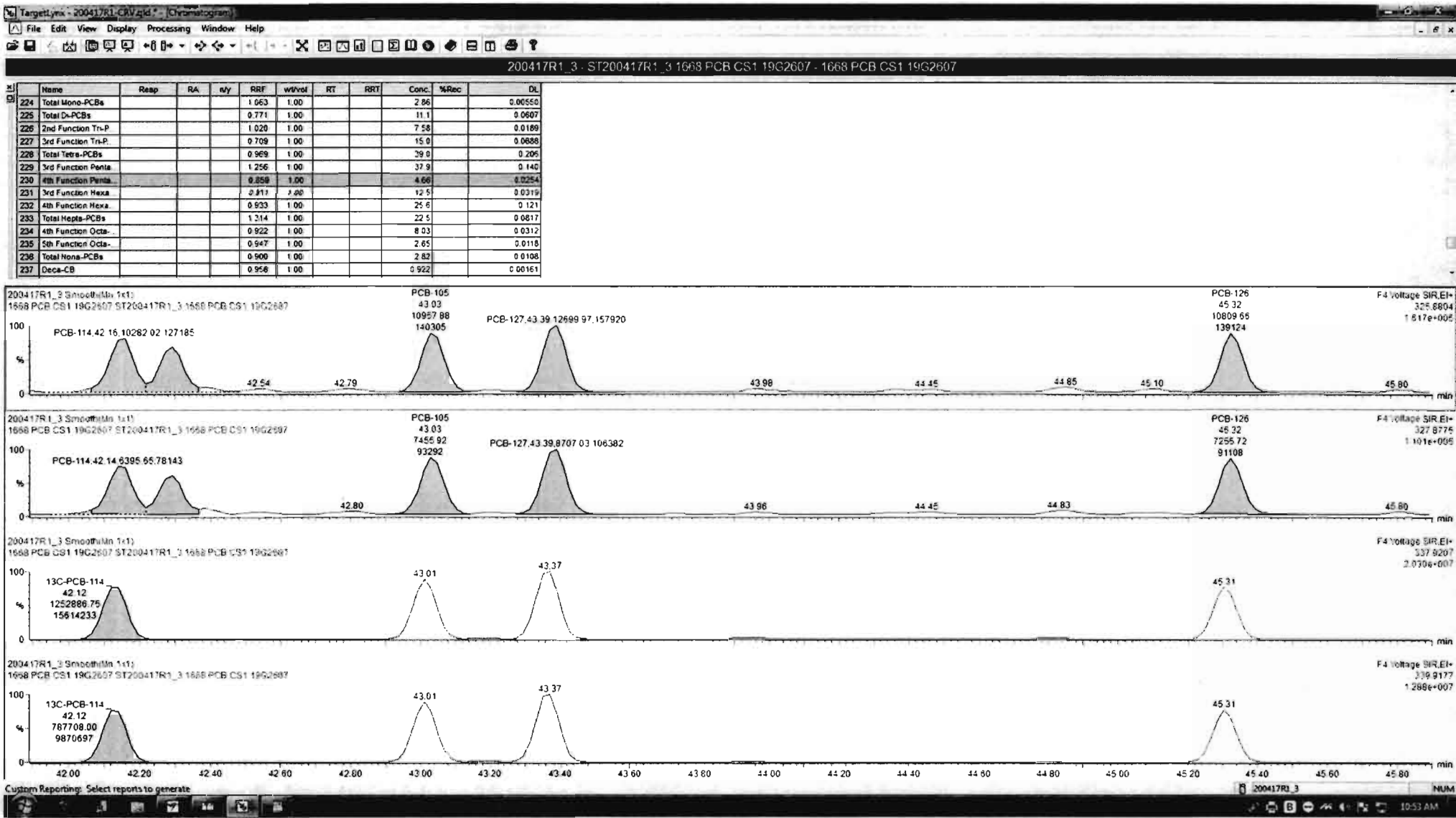


**13C-PCB-114**



**PFK4a**





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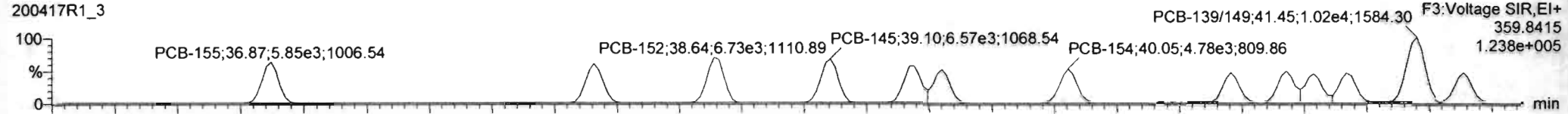
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

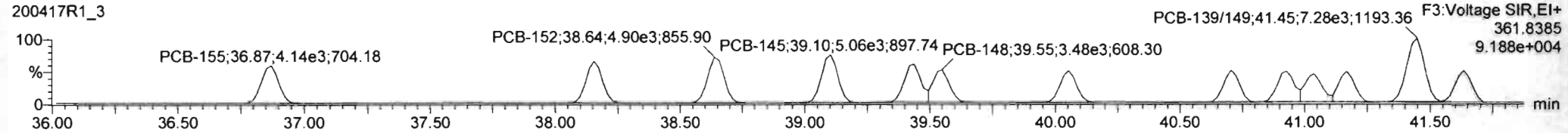
Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

**PCB-155**

200417R1\_3

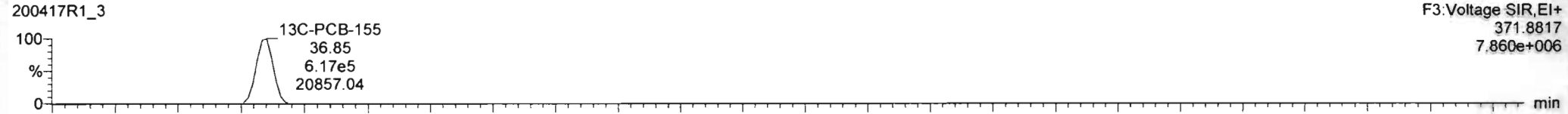


200417R1\_3

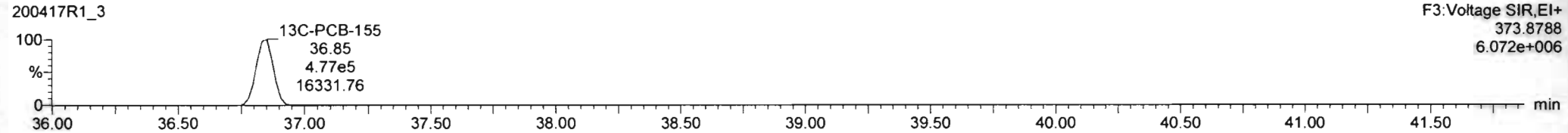


**13C-PCB-155**

200417R1\_3

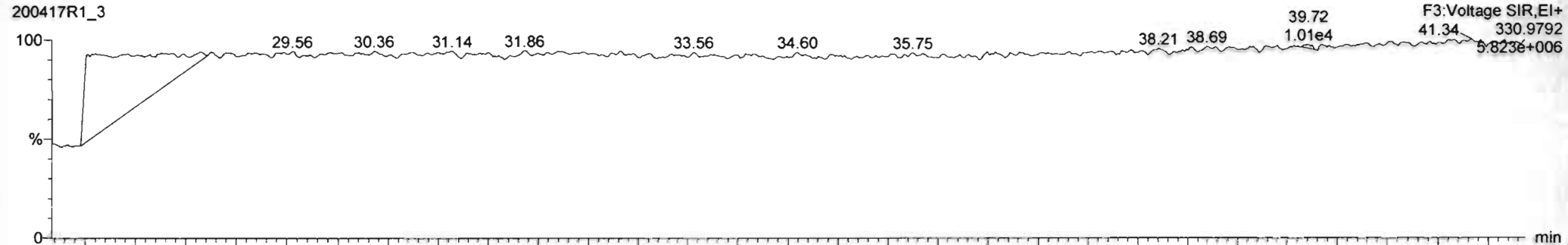


200417R1\_3



**PFK3d**

200417R1\_3





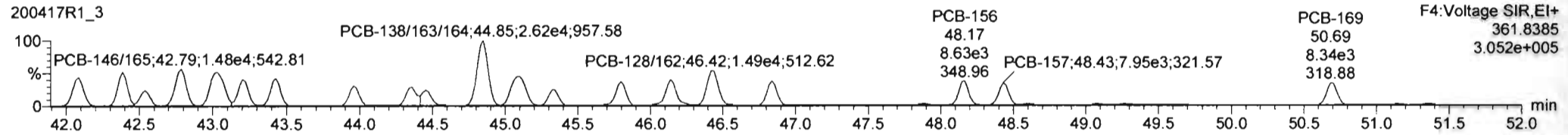
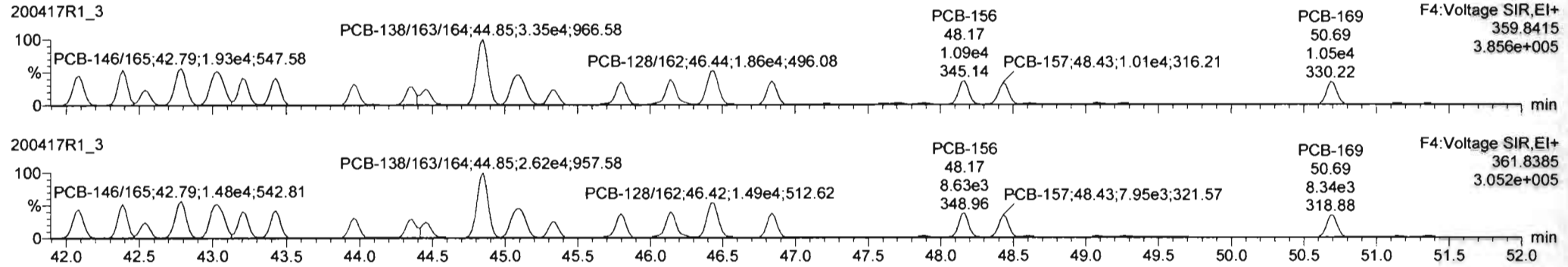
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

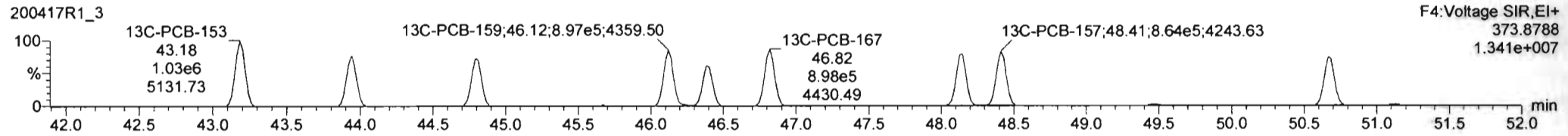
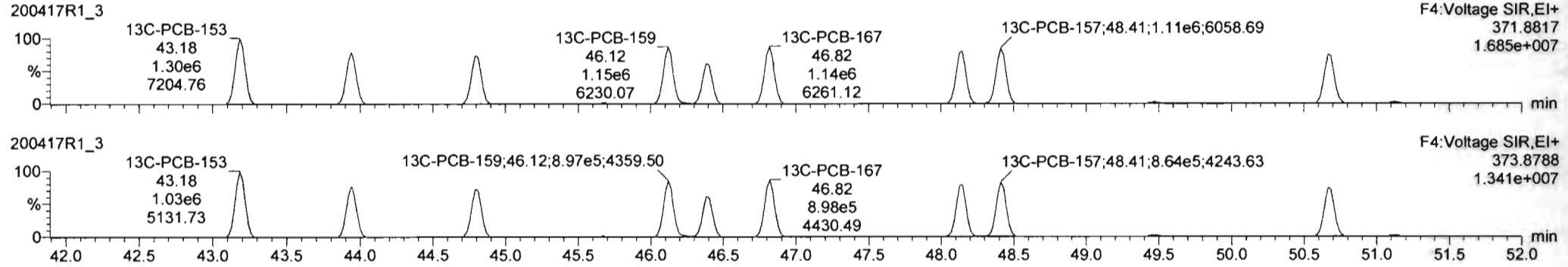
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

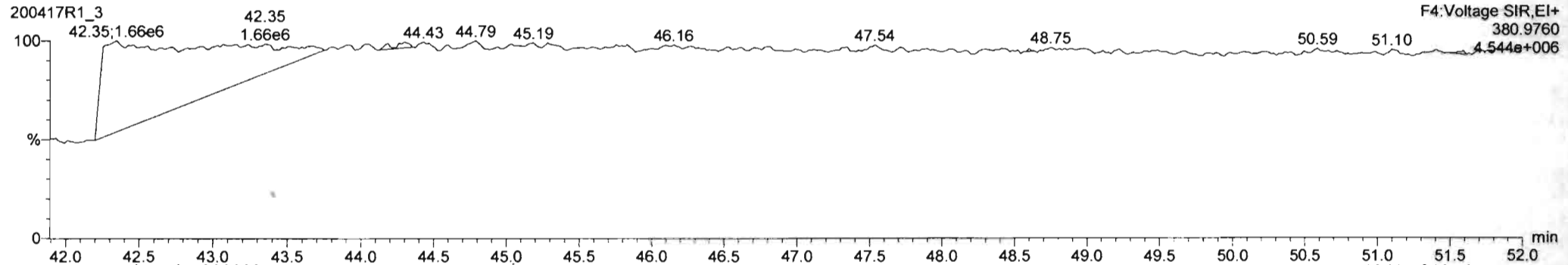
**PCB-134/143**

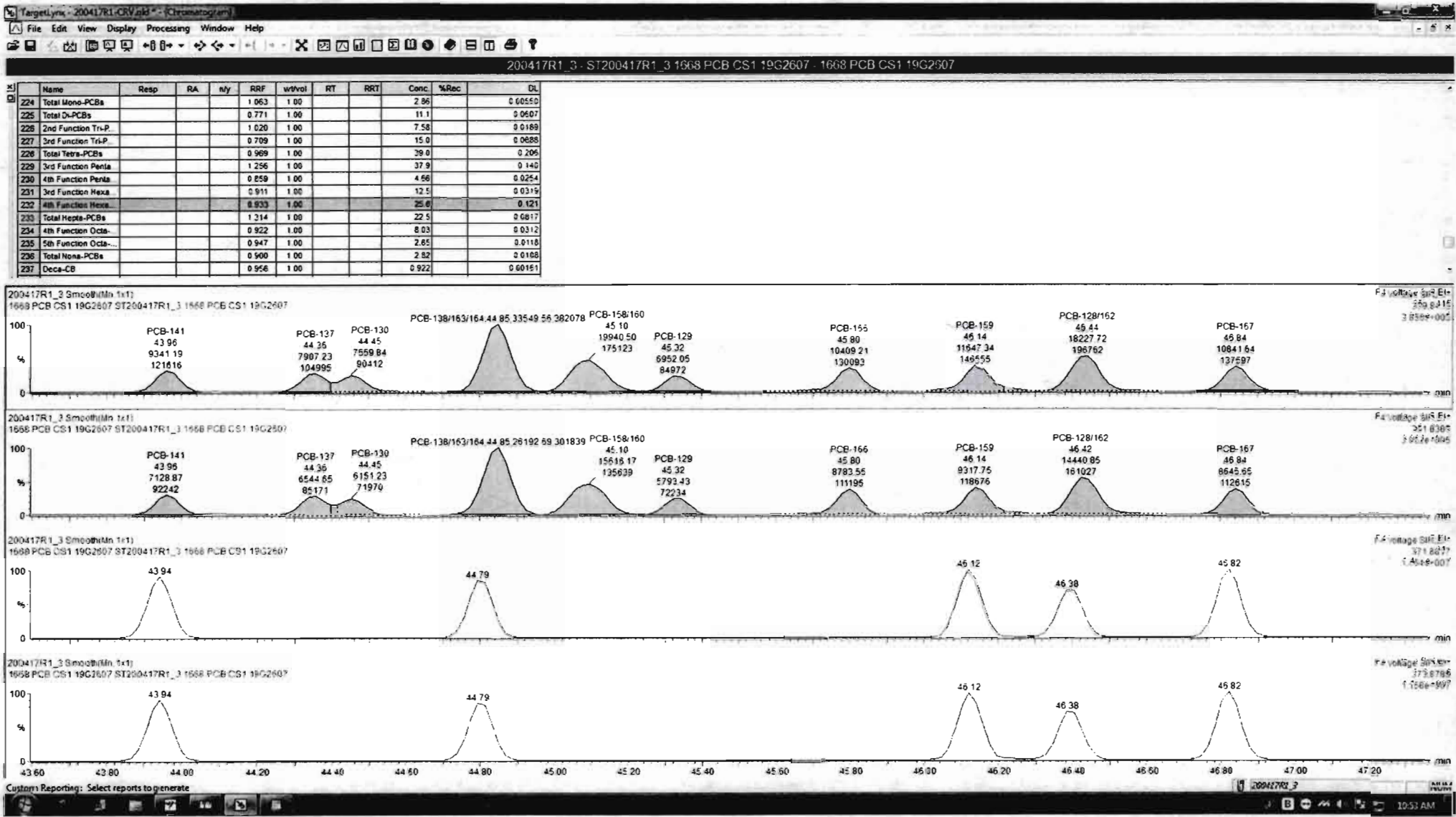


**13C-PCB-153**



**PFK4b**





Dataset: Untitled

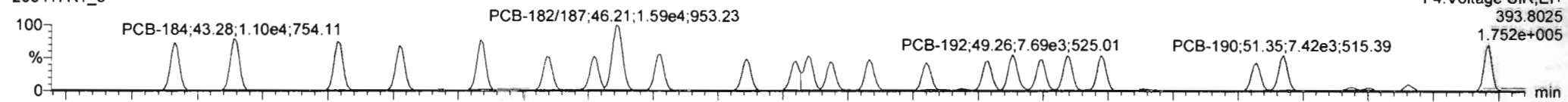
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

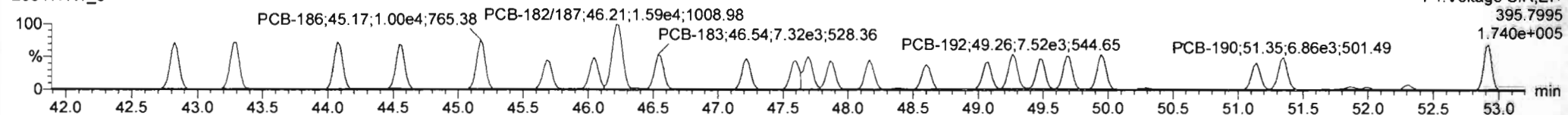
Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

### PCB-188

200417R1\_3

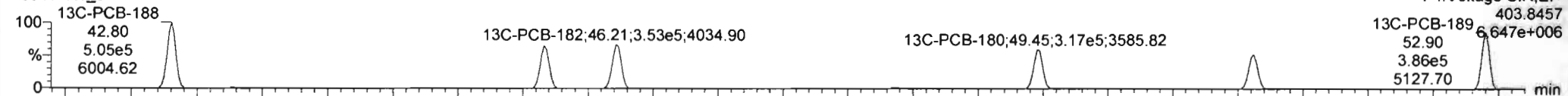


200417R1\_3

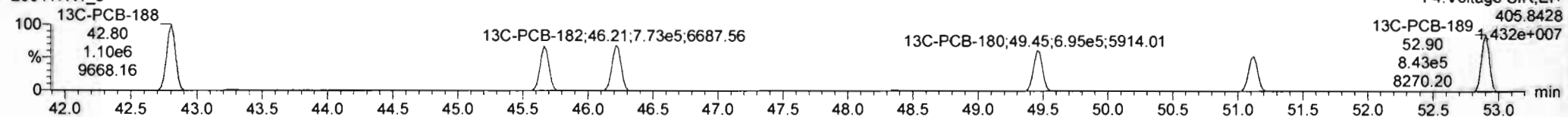


### 13C-PCB-188

200417R1\_3

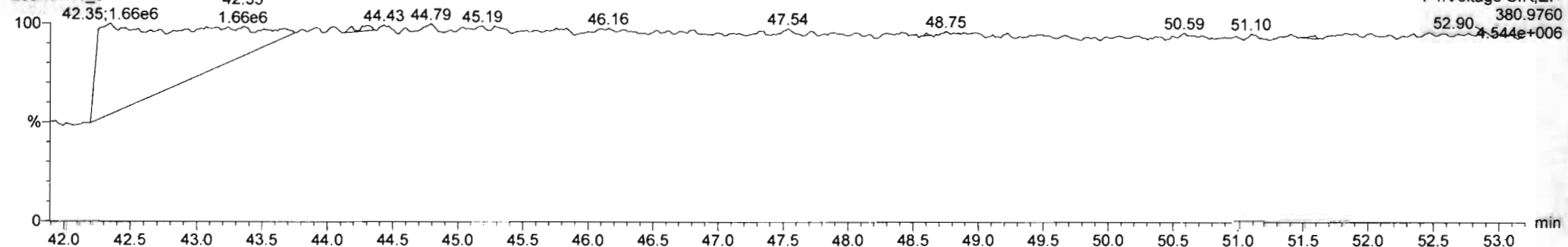


200417R1\_3



### PFK4c

200417R1\_3



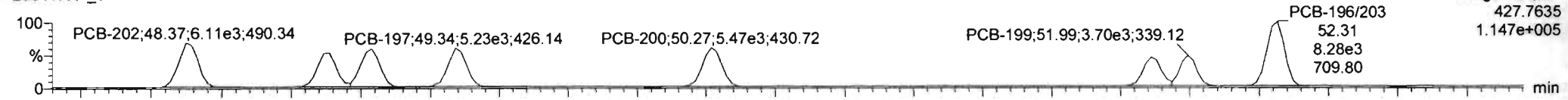
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

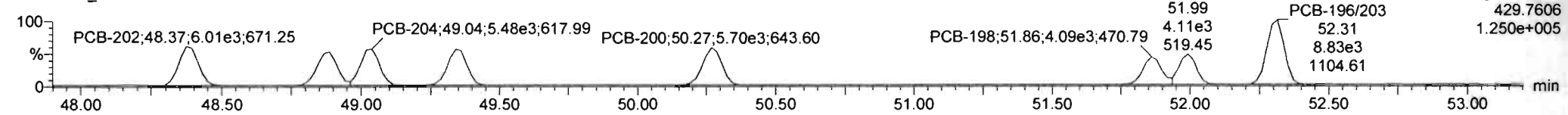
Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

**PCB-202**

200417R1\_3

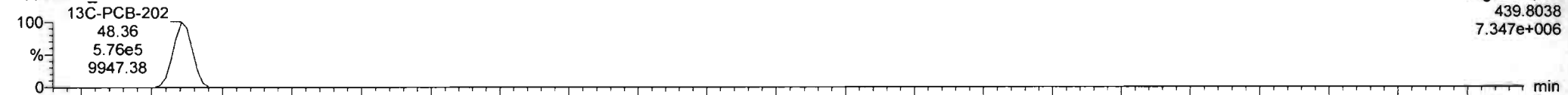


200417R1\_3

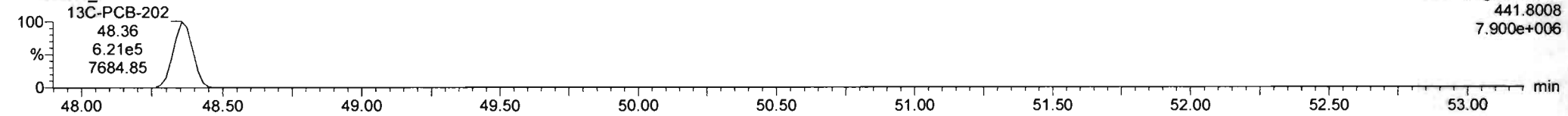


**13C-PCB-202**

200417R1\_3

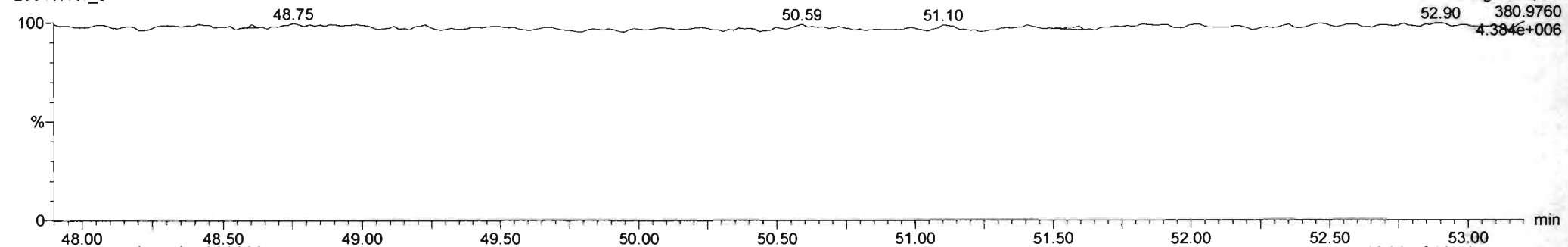


200417R1\_3



**PFK4d**

200417R1\_3



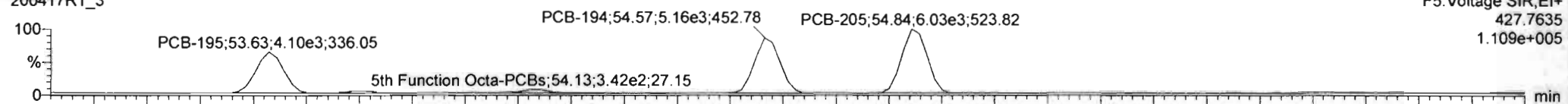
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

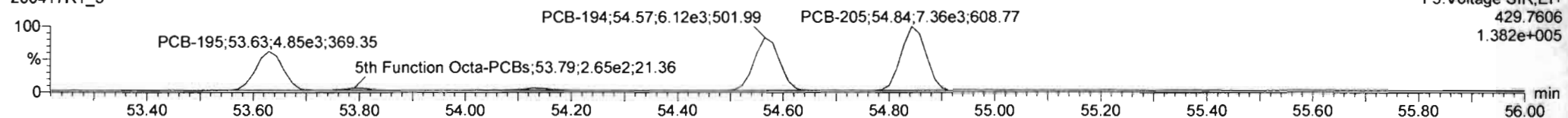
Name: 200417R1\_3, Date: 17-Apr-2020, Time: 18:07:49, ID: ST200417R1\_3 1668 PCB CS1 19G2607, Description: 1668 PCB CS1 19G2607

PCB-195

200417R1\_3

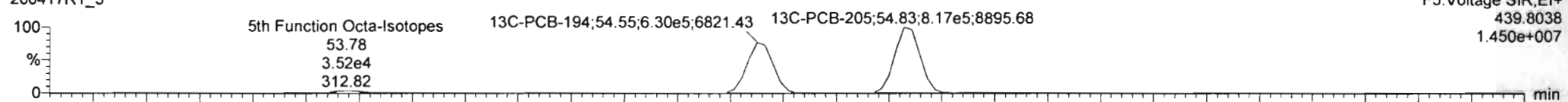


200417R1\_3

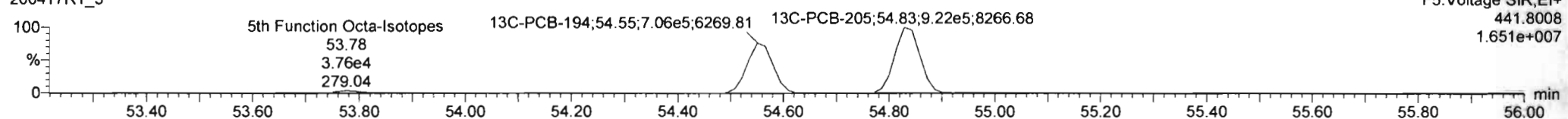


13C-PCB-194

200417R1\_3

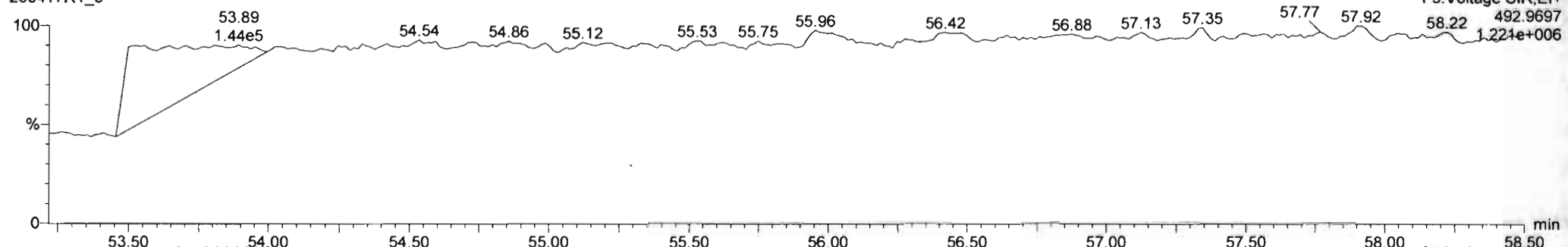


200417R1\_3



PFK5

200417R1\_3



Dataset: Untitled

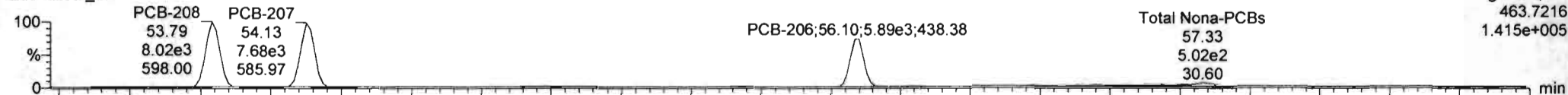
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

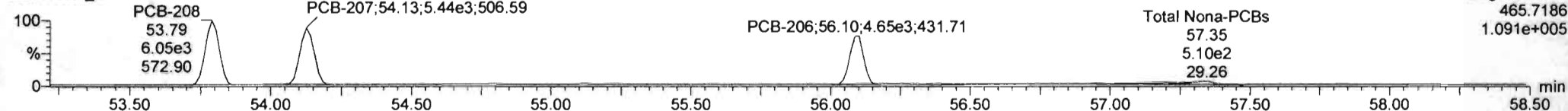
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**PCB-208**

200417R1\_3

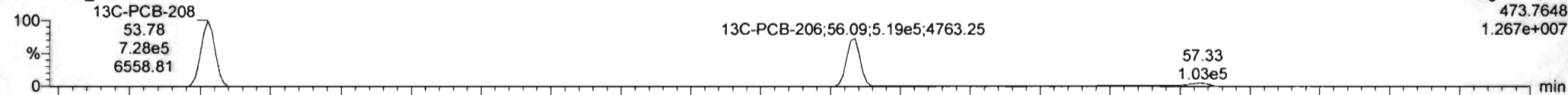


200417R1\_3

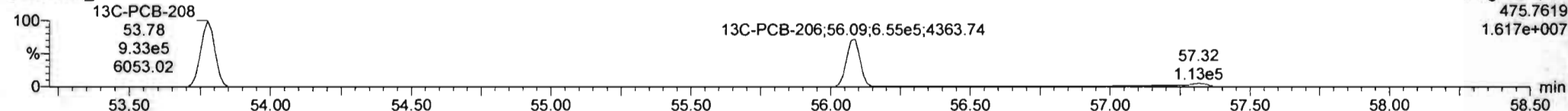


**13C-PCB-208**

200417R1\_3

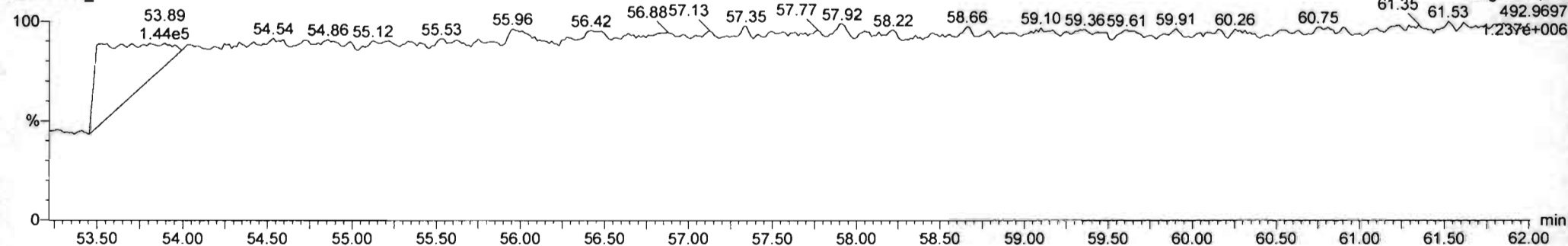


200417R1\_3



**PFK5a**

200417R1\_3



Dataset: Untitled

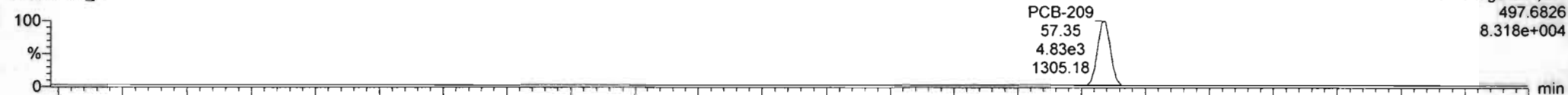
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

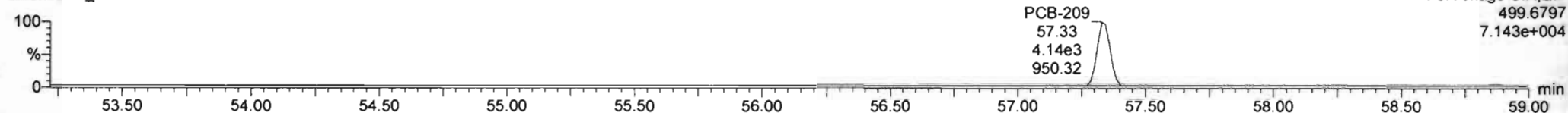
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**PCB-209**

200417R1\_3

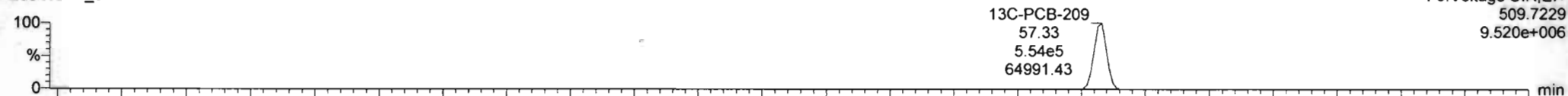


200417R1\_3

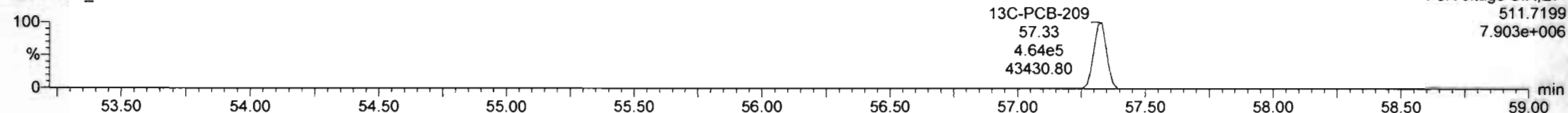


**13C-PCB-209**

200417R1\_3

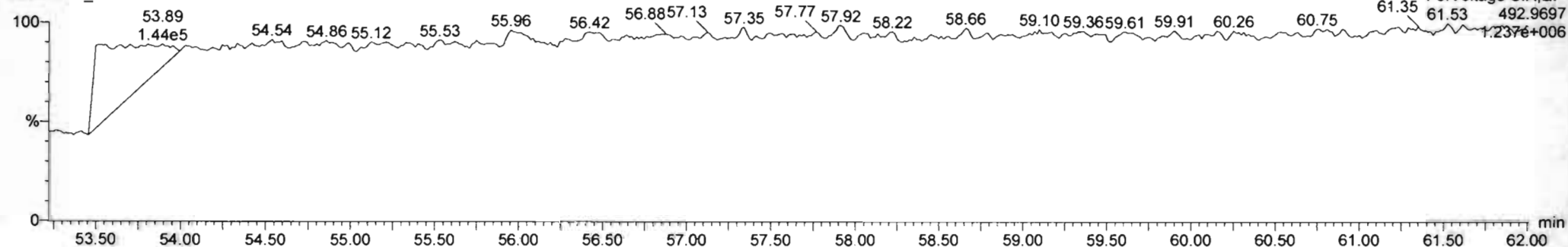


200417R1\_3



**PFK5b**

200417R1\_3

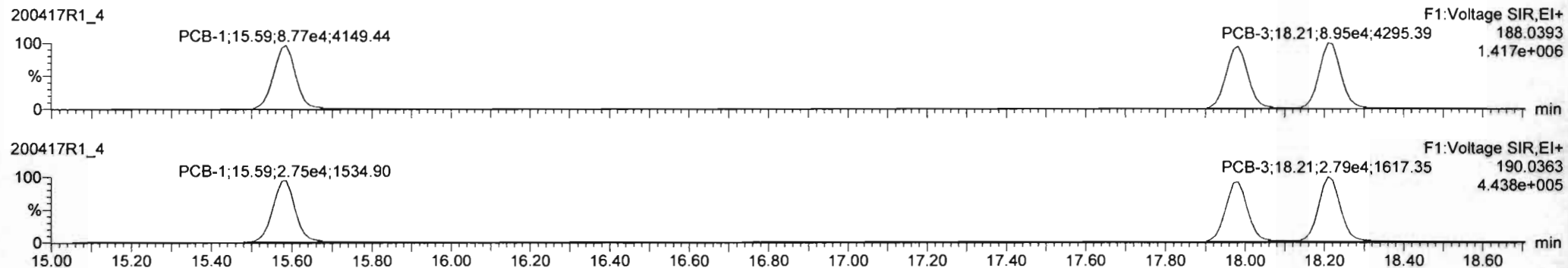


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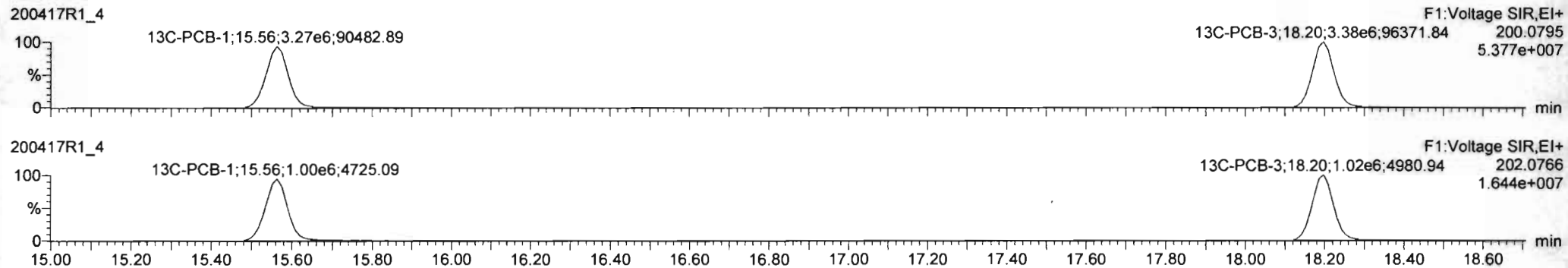
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

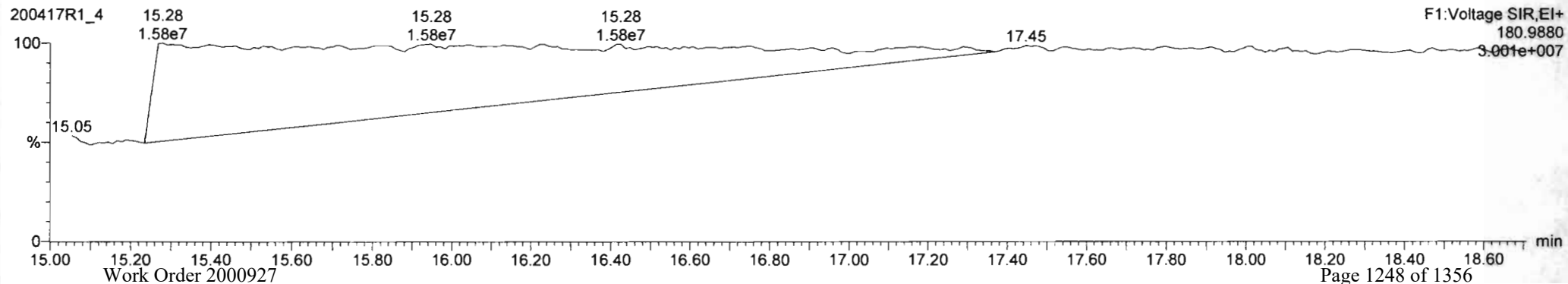
**PCB-1**



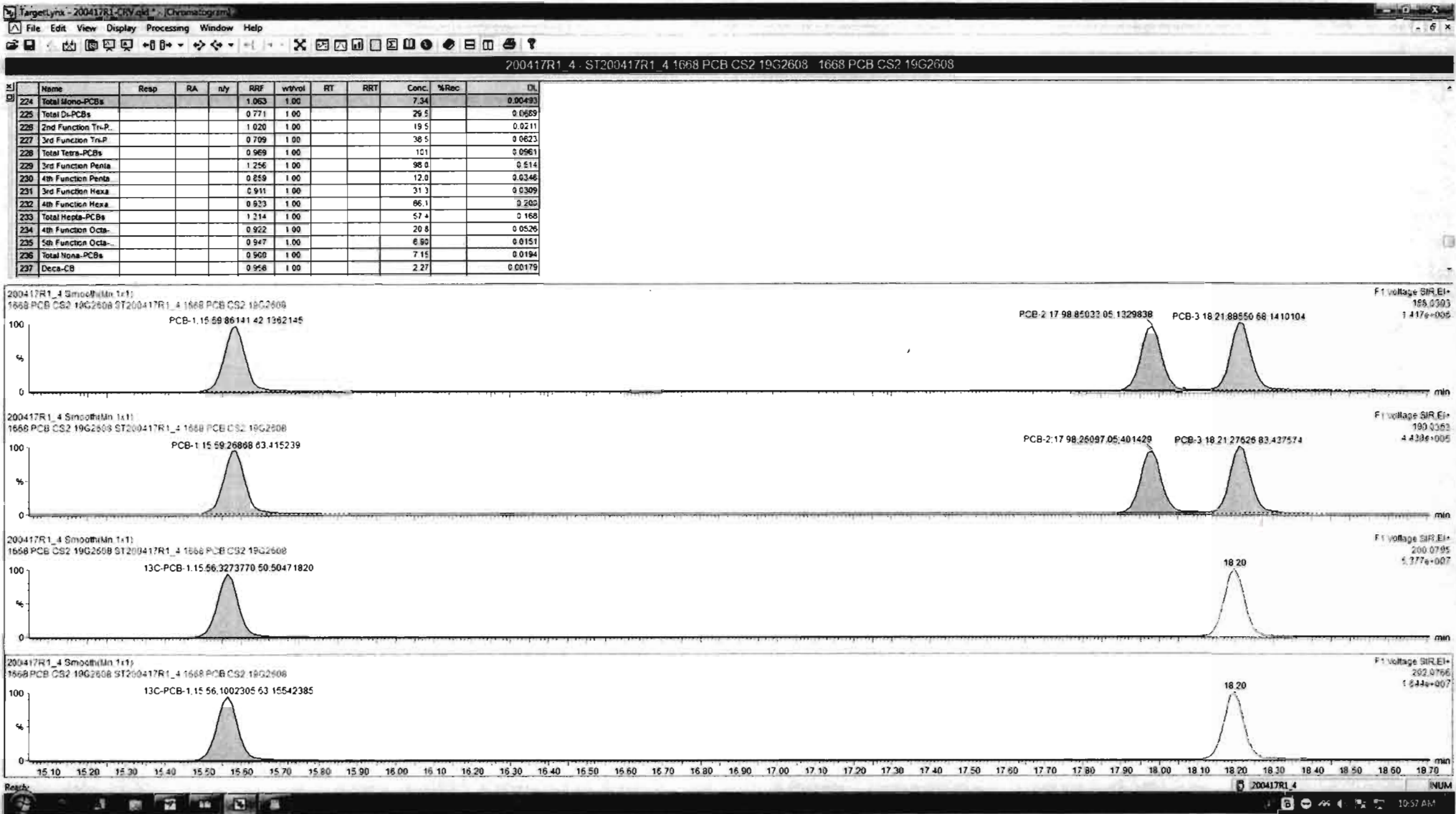
**13C-PCB-1**



**PFK1**







Dataset: Untitled

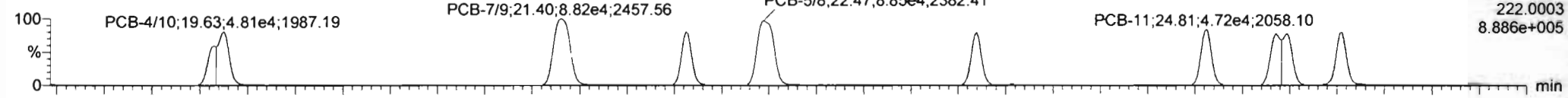
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

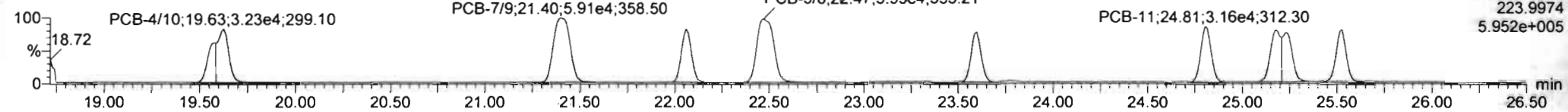
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**PCB-4/10**

200417R1\_4

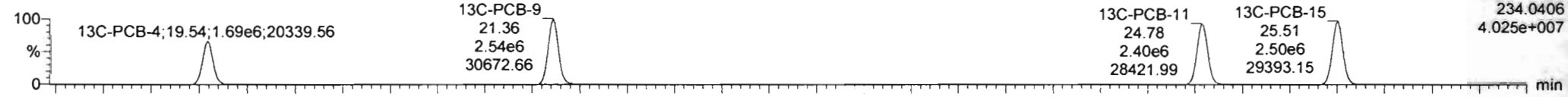


200417R1\_4

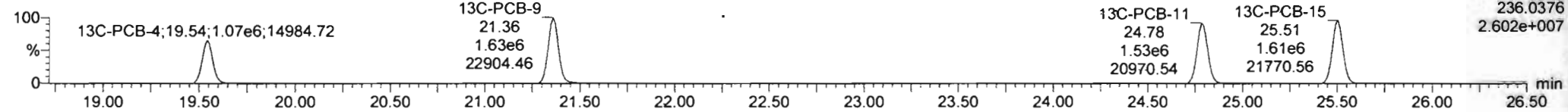


**13C-PCB-4**

200417R1\_4

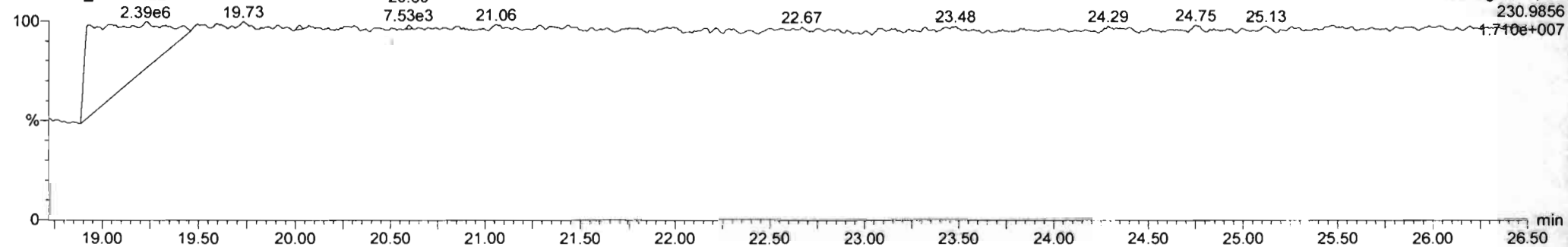


200417R1\_4

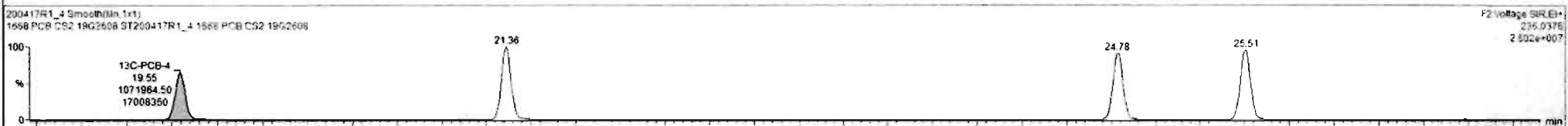
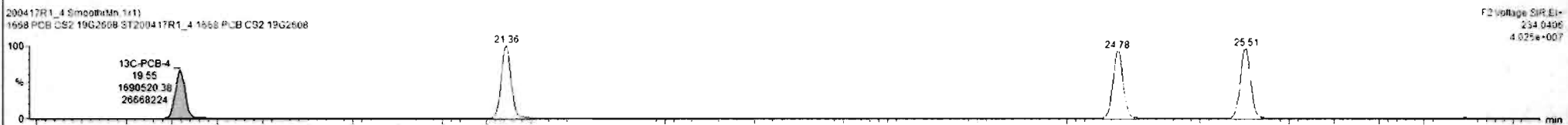
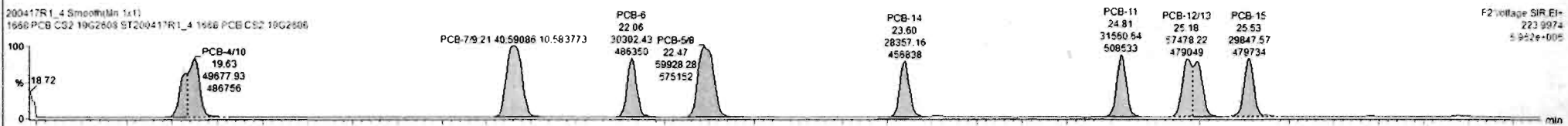
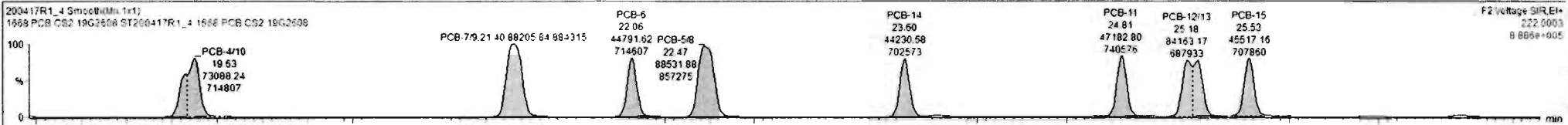


**PFK2a**

200417R1\_4



Name	Resp	RA	nly	RRF	vr/rol	RT	RRT	Conc	%Rec	DL
224 Total Mono-PCBs				1.063	1.00			7.34		0.00493
225 Total Di-PCBs				0.771	1.00			29.5		0.0689
226 2nd Function Tri-P				1.020	1.00			16.5		0.0211
227 3rd Function Tri-P				0.709	1.00			36.5		0.0823
228 Total Tetra-PCBs				0.969	1.00			101		0.0961
229 3rd Function Penta				1.256	1.00			98.0		0.514
230 4th Function Penta				0.859	1.00			12.0		0.0248
231 3rd Function Hexa				0.911	1.00			21.3		0.0309
232 4th Function Hexa				0.533	1.00			66.1		0.200
233 Total Hepta-PCBs				1.314	1.00			57.4		0.168
234 4th Function Octa-				0.922	1.00			20.8		0.0526
235 5th Function Octa-				0.947	1.00			6.90		0.0151
236 Total Nona-PCBs				0.900	1.00			7.15		0.0194
237 Deca-CB				0.956	1.00			2.27		0.00179

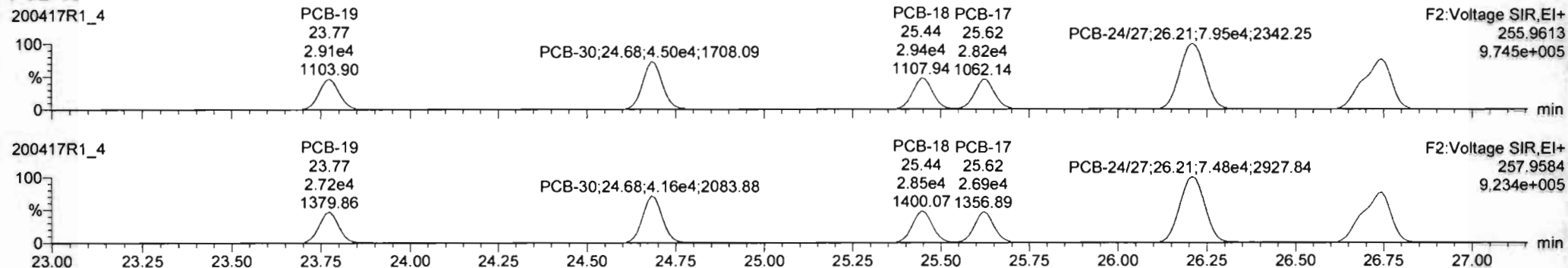


Dataset: Untitled

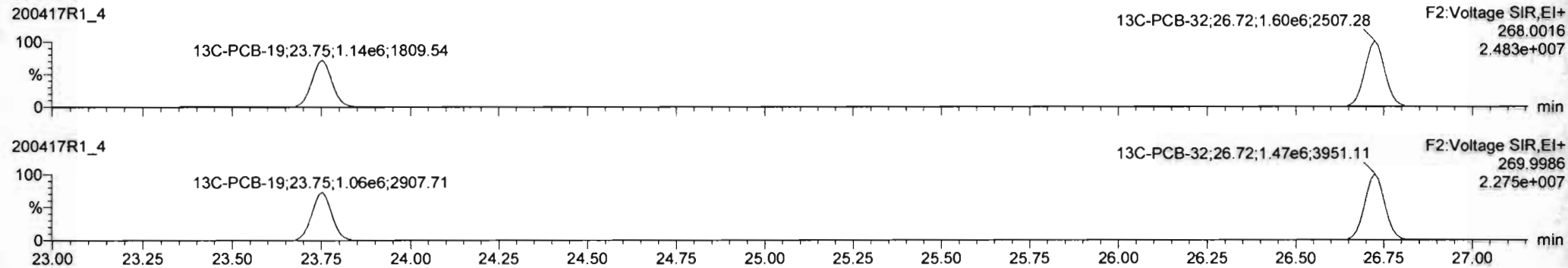
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

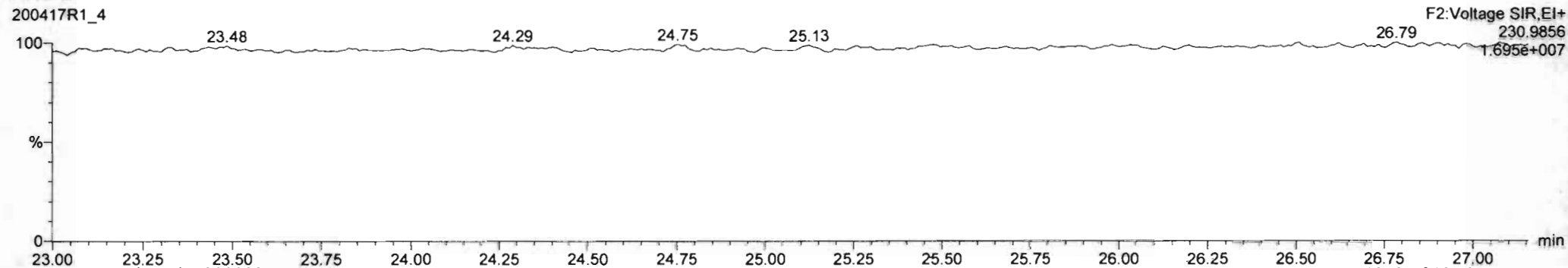
**PCB-19**



**13C-PCB-19**



**PFK2b**



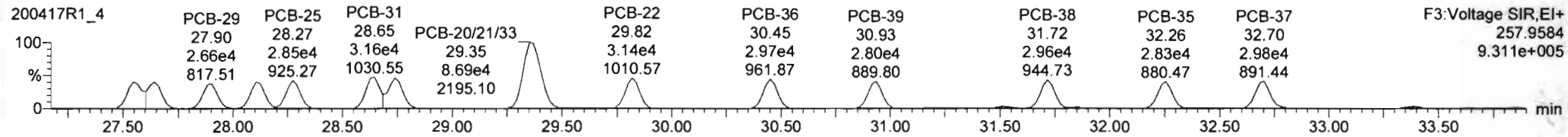
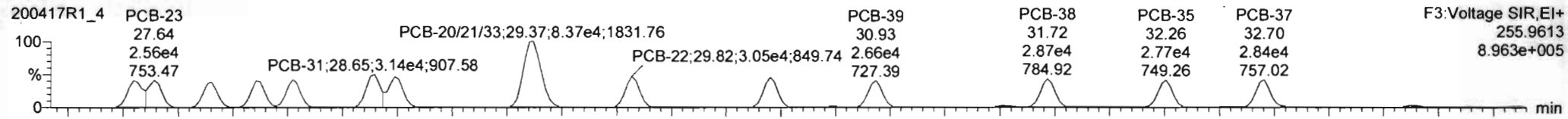
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

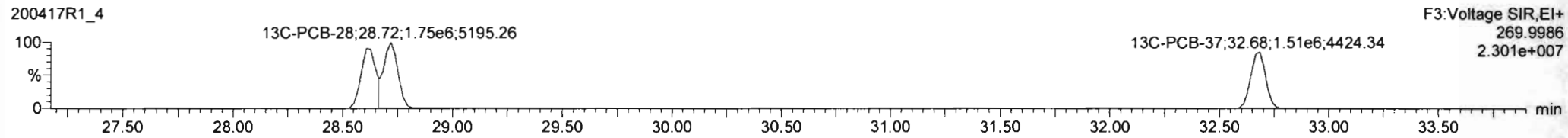
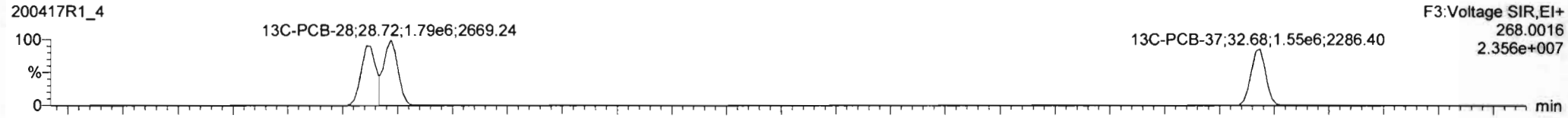
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

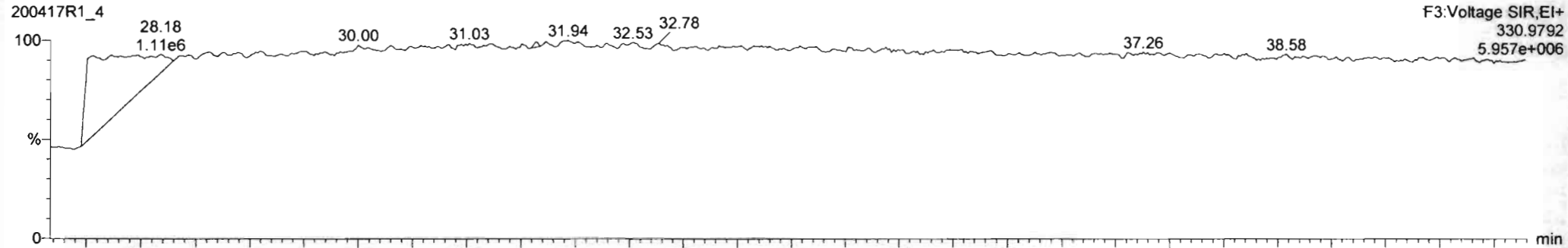
**PCB-34**



**13C-PCB-28**



**PFK3a**





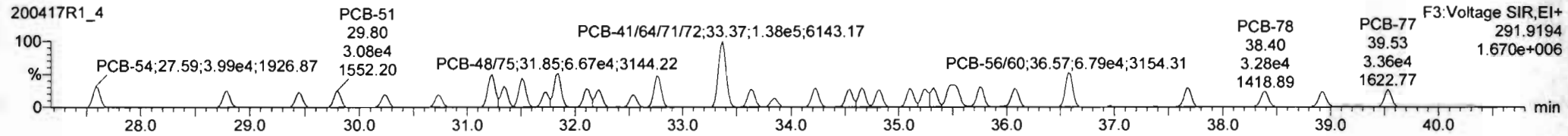
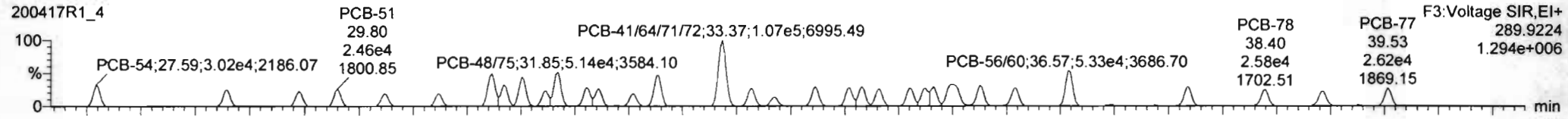
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

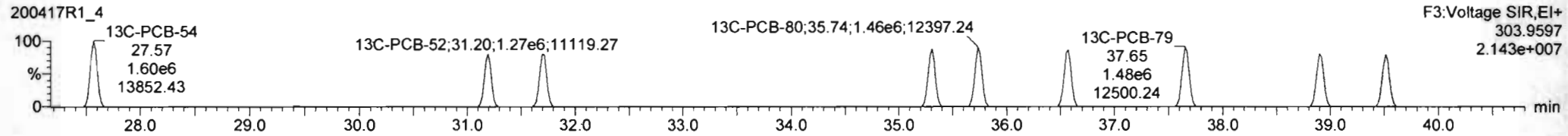
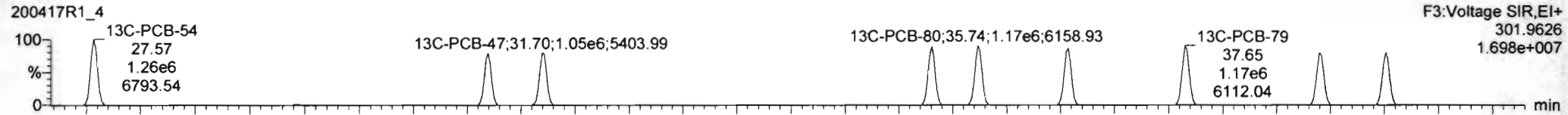
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

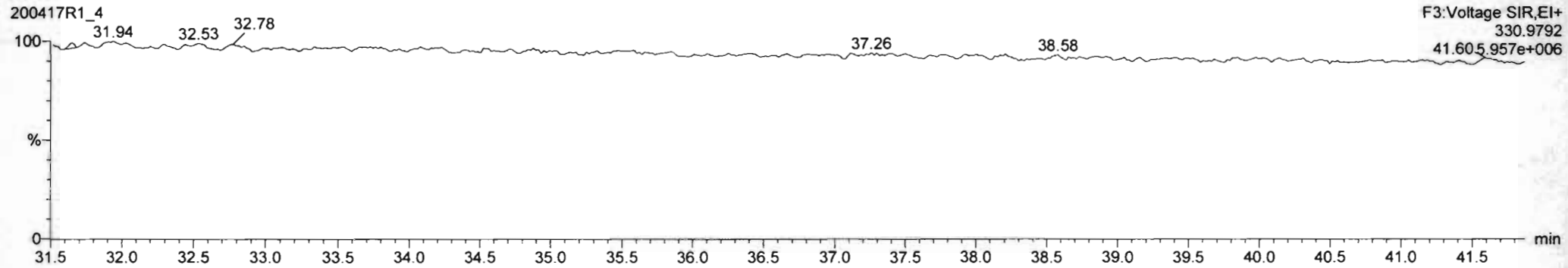
**PCB-54**



**13C-PCB-54**



**PFK3b**



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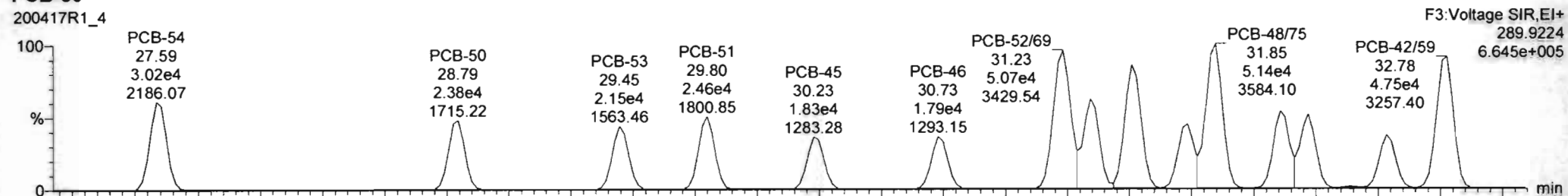
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

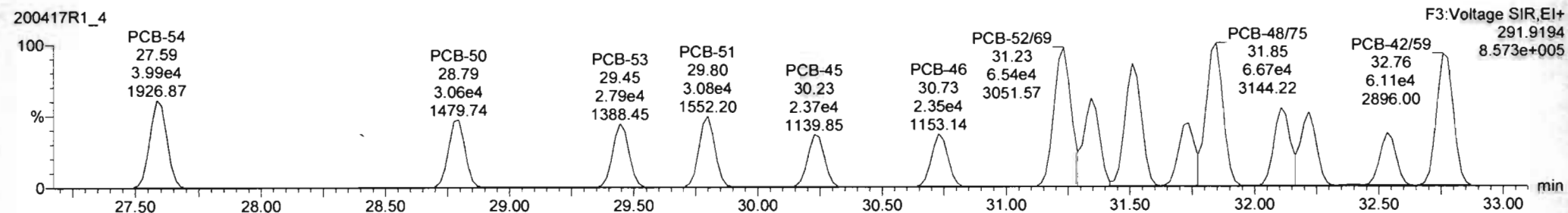
Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

PCB-50

200417R1\_4

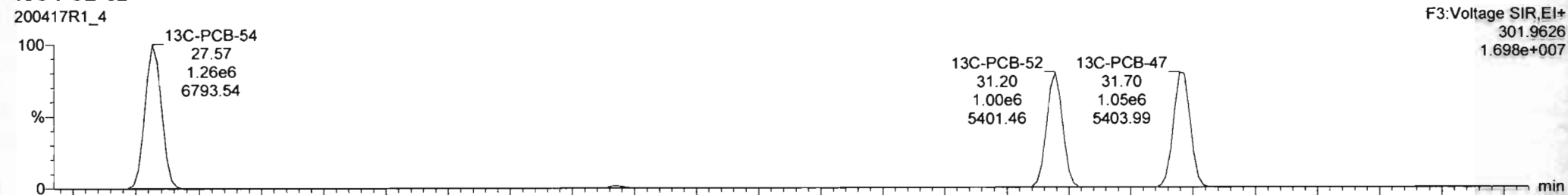


200417R1\_4

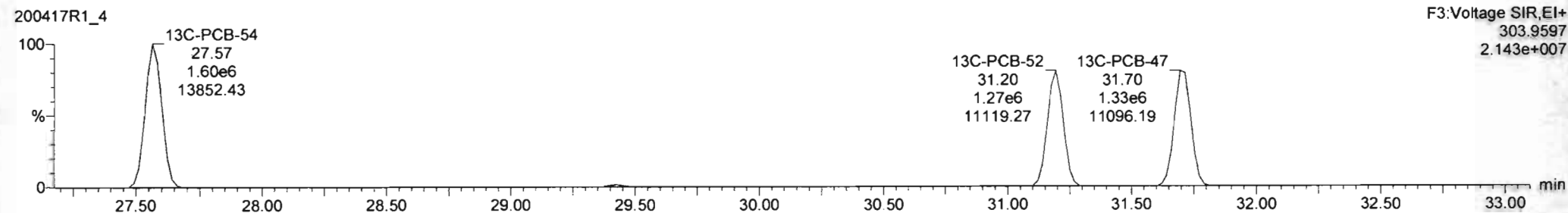


13C-PCB-52

200417R1\_4



200417R1\_4





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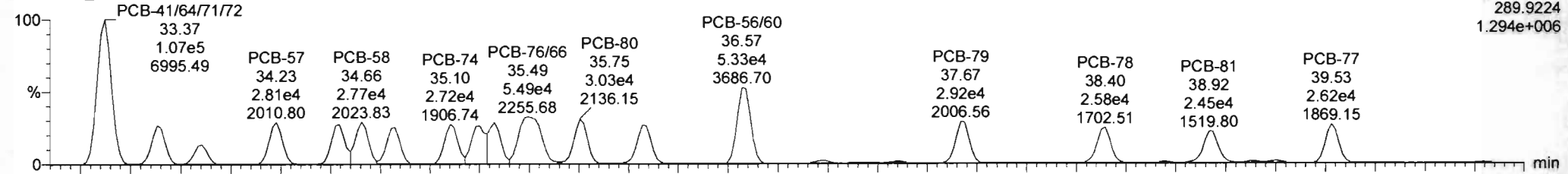
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

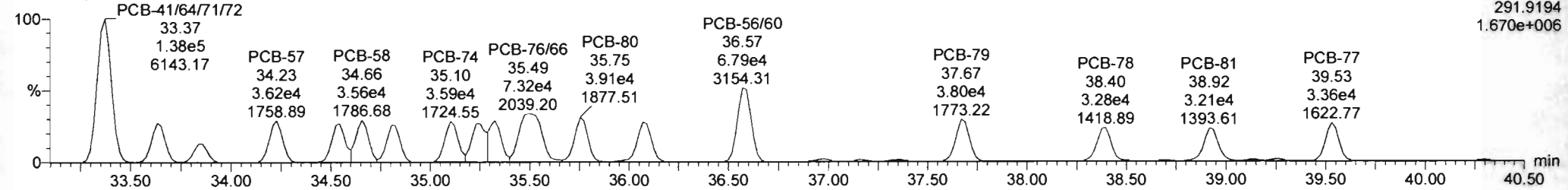
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PCB-68

200417R1\_4

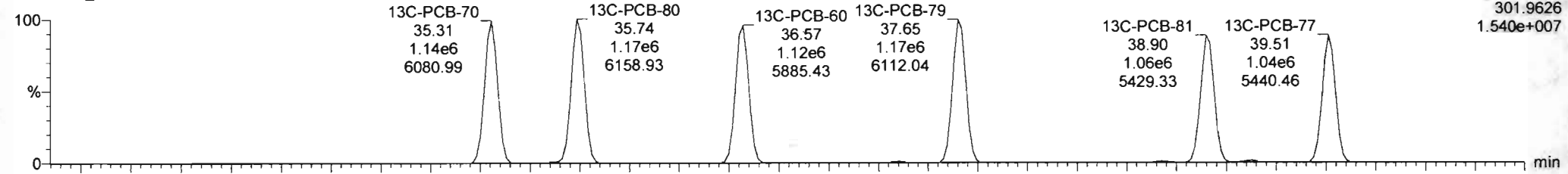


200417R1\_4

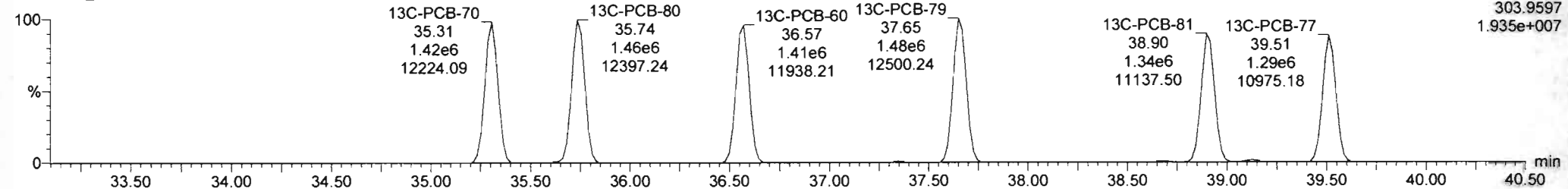


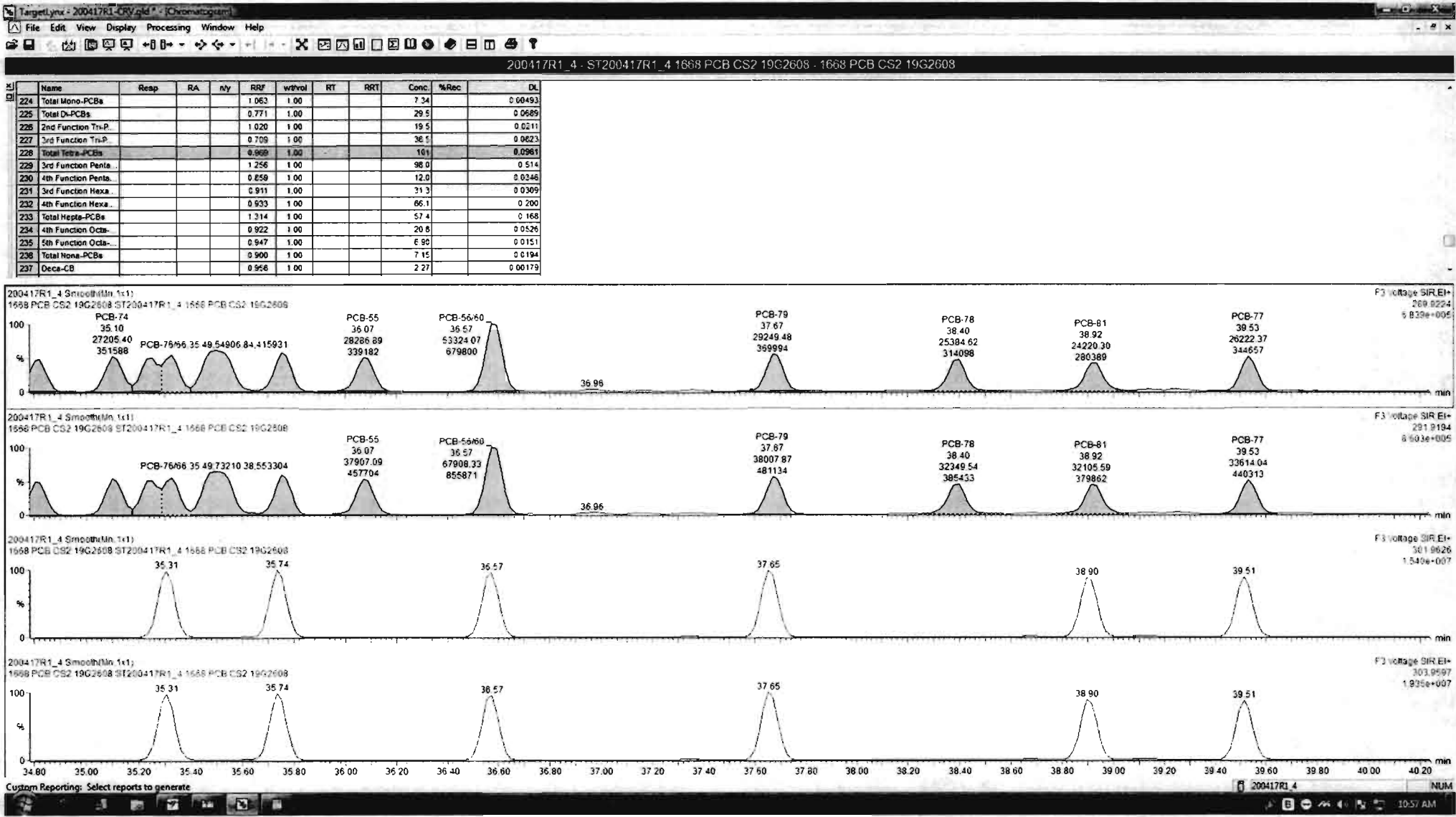
13C-PCB-60

200417R1\_4



200417R1\_4





Dataset: Untitled

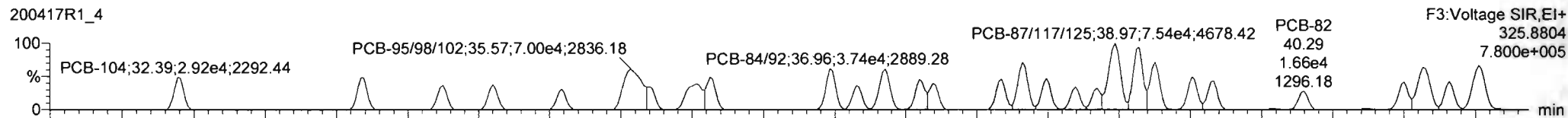
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

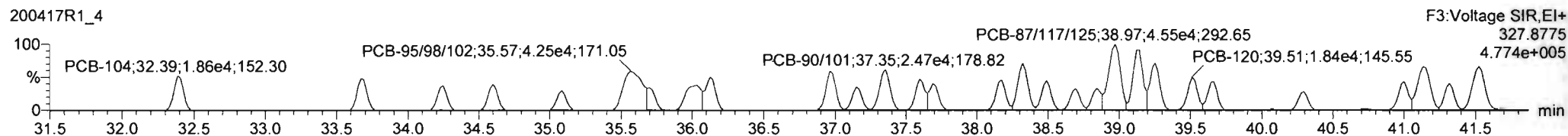
Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

**PCB-104**

200417R1\_4

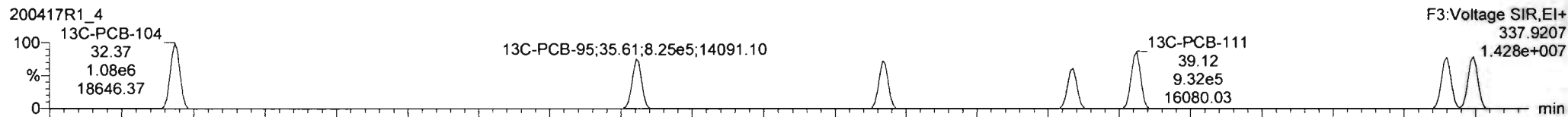


200417R1\_4

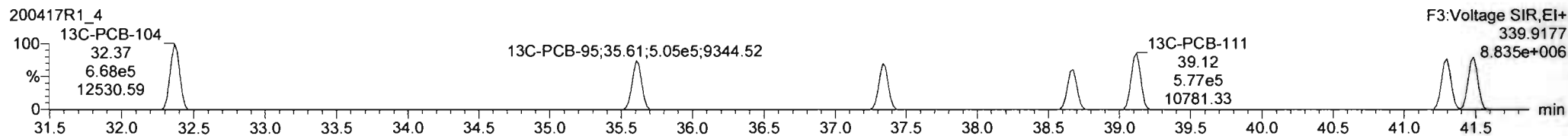


**13C-PCB-104**

200417R1\_4

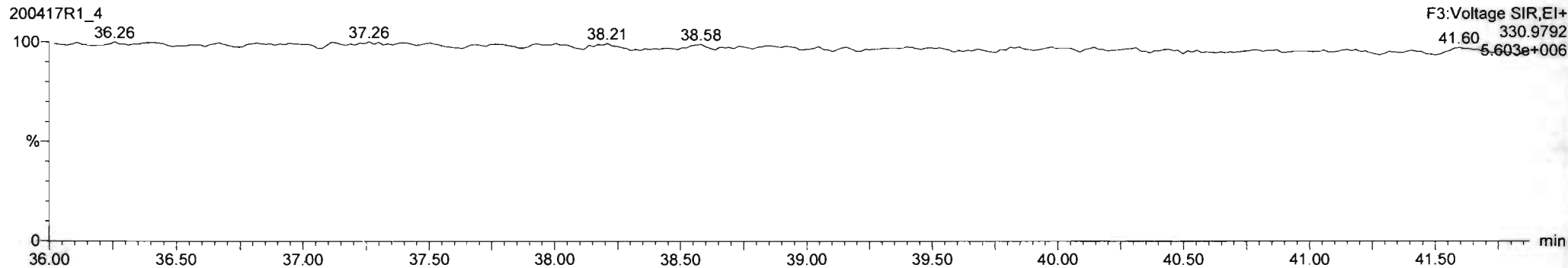


200417R1\_4



**PFK3c**

200417R1\_4



Dataset: Untitled

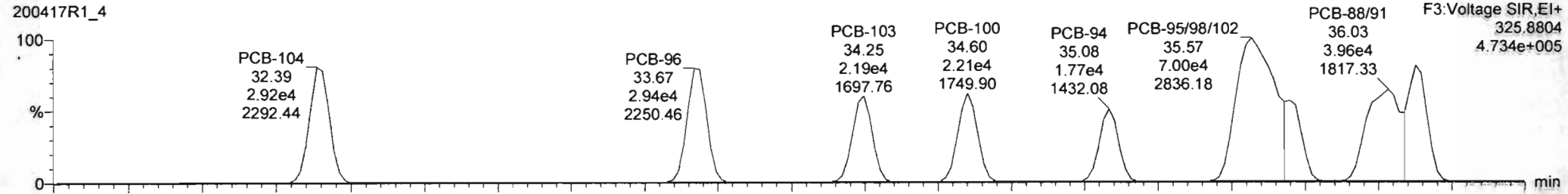
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

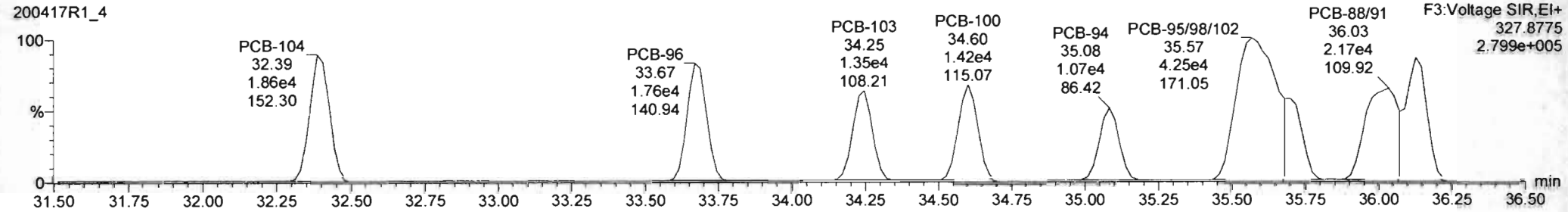
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PCB-96

200417R1\_4

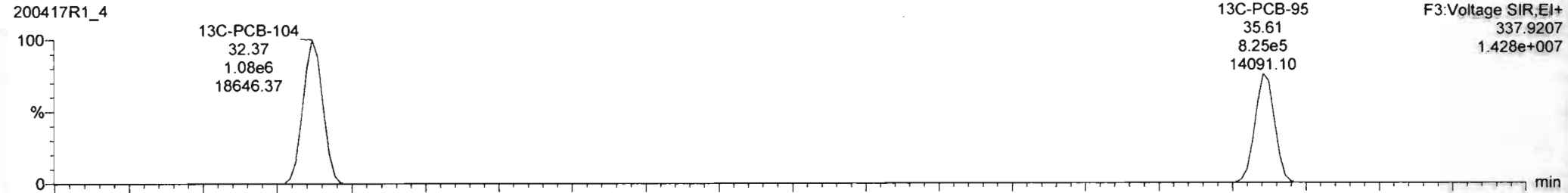


200417R1\_4

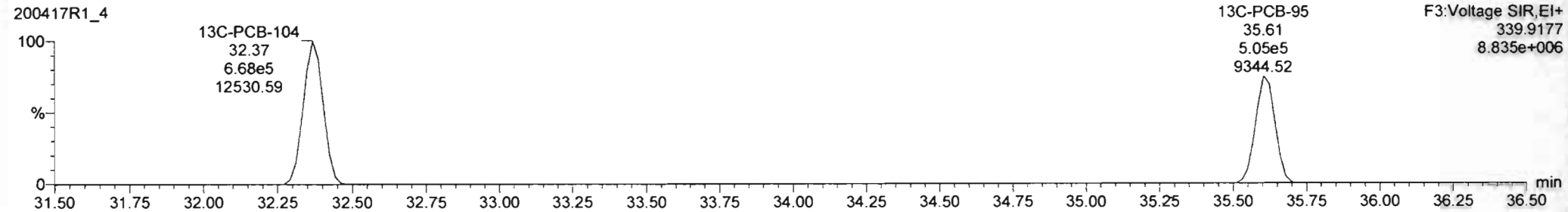


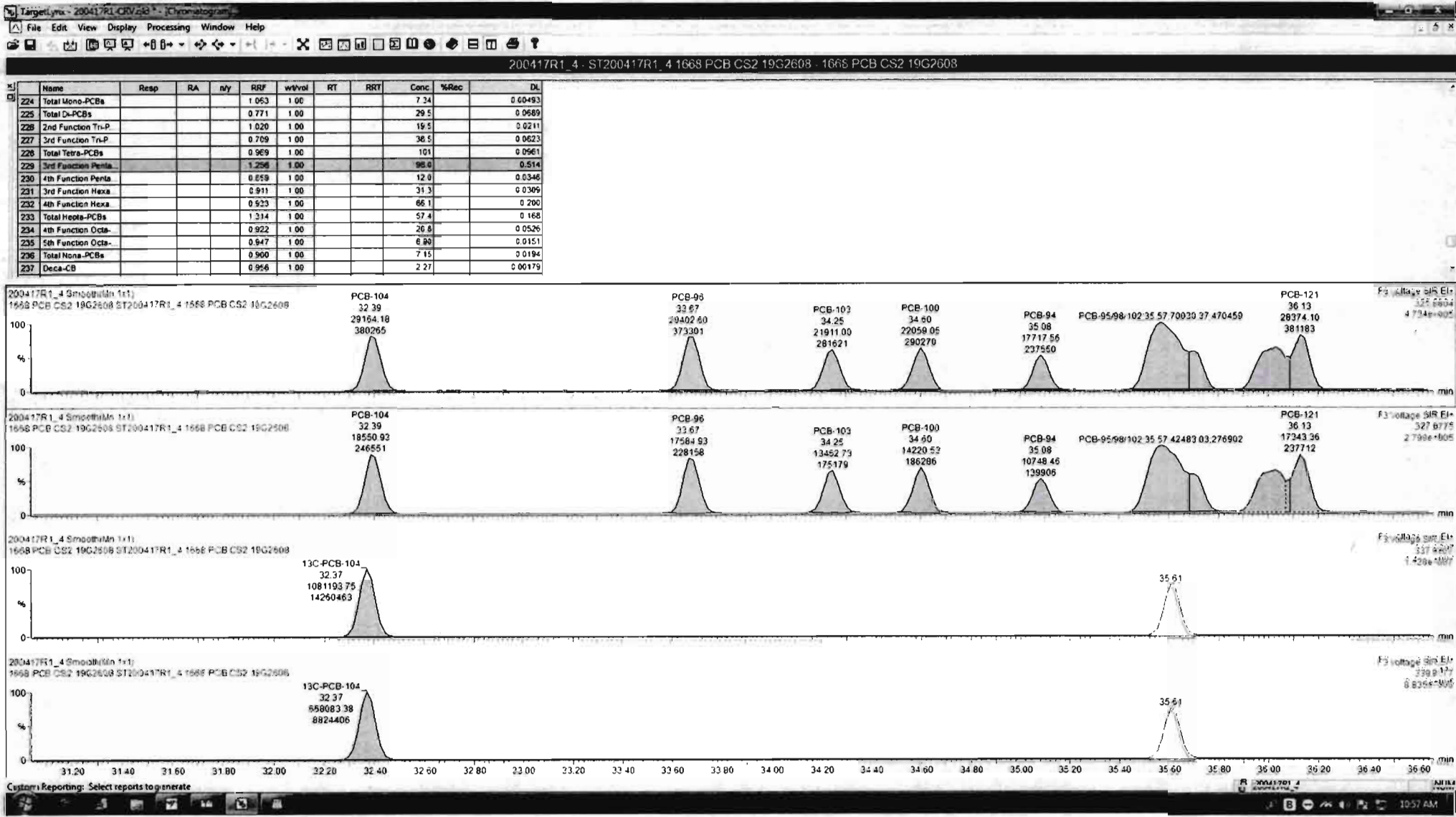
13C-PCB-95

200417R1\_4



200417R1\_4





Dataset: Untitled

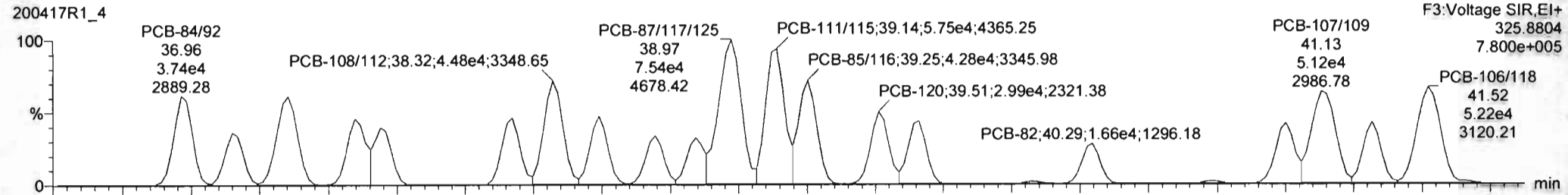
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

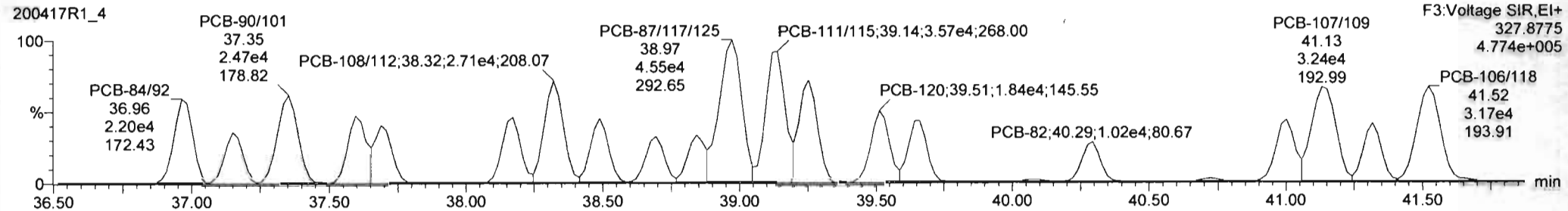
Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

**PCB-119**

200417R1\_4

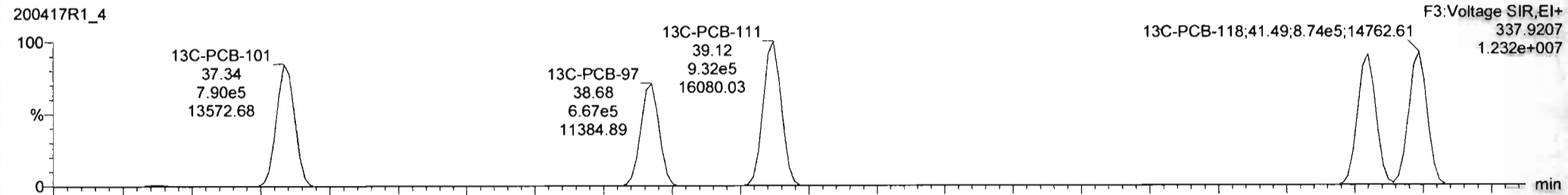


200417R1\_4

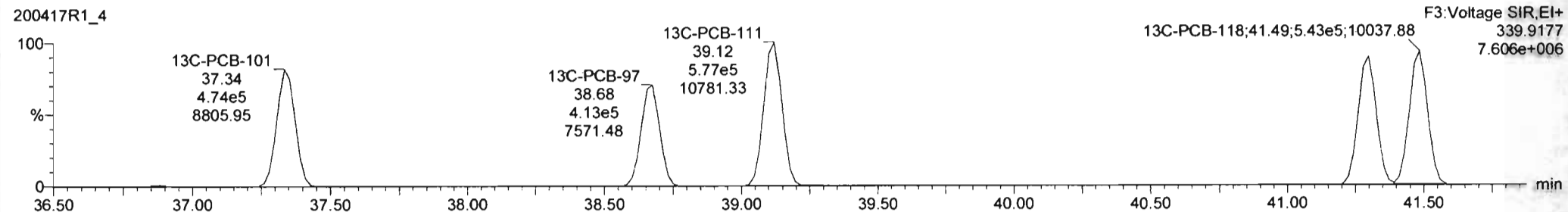


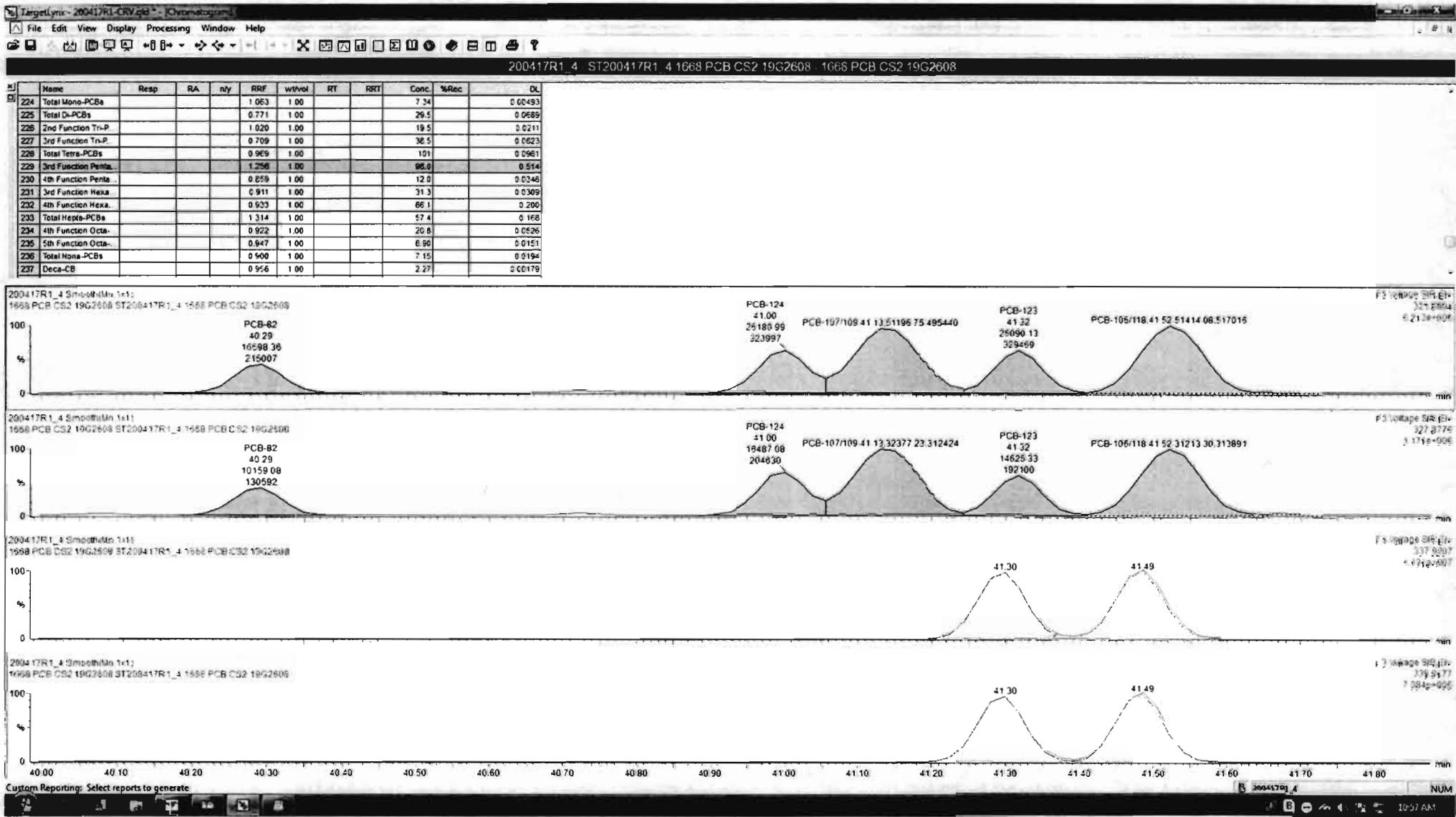
**13C-PCB-111**

200417R1\_4



200417R1\_4



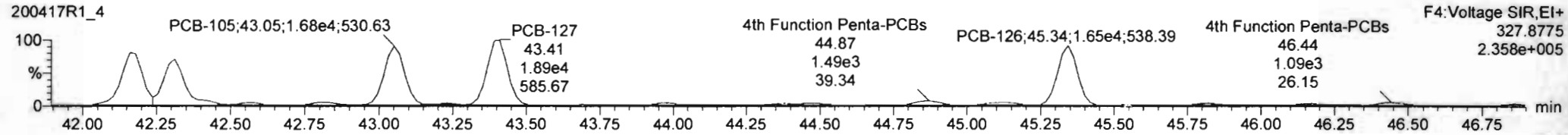
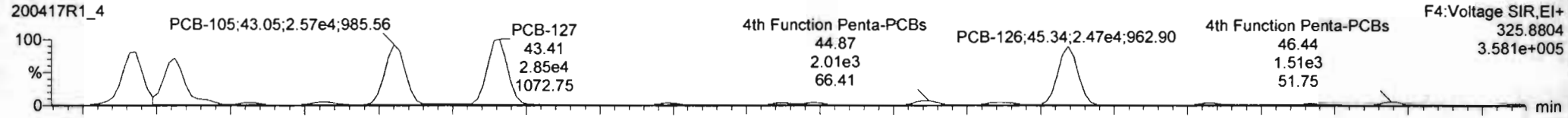


Dataset: Untitled

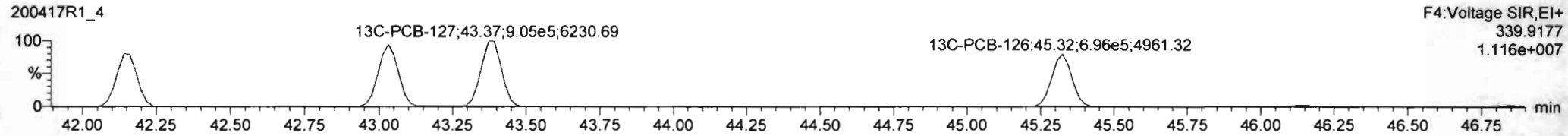
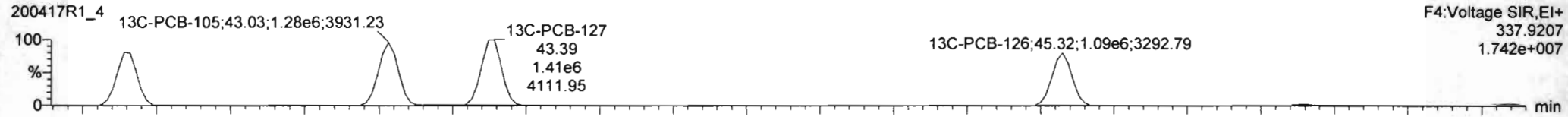
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

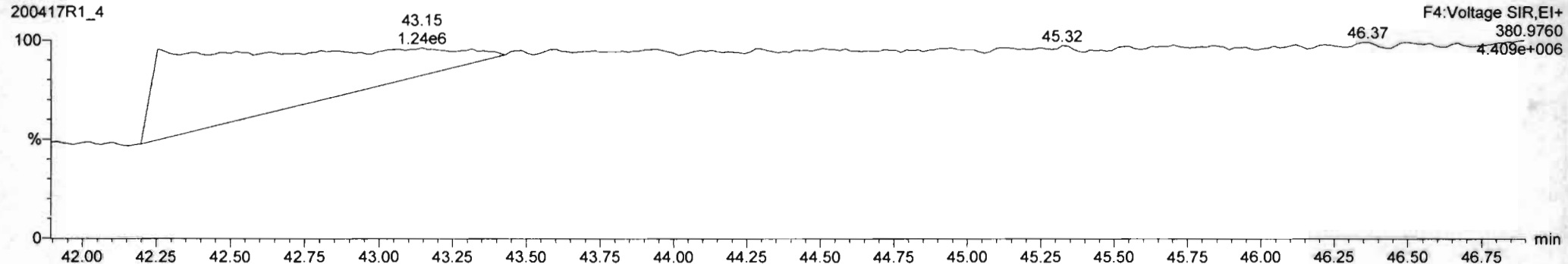
**PCB-114**



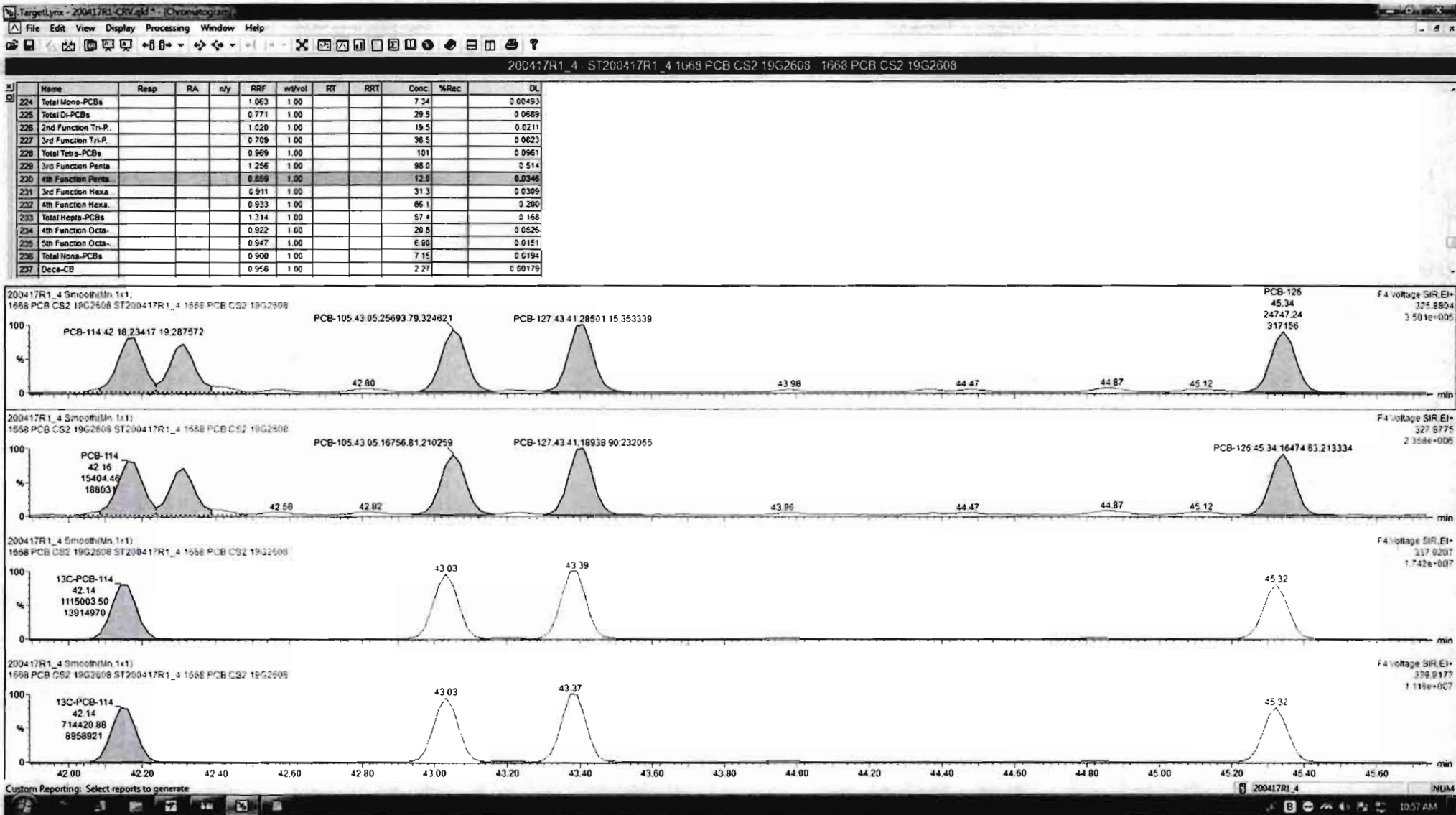
**13C-PCB-114**



**PFK4a**







Dataset: Untitled

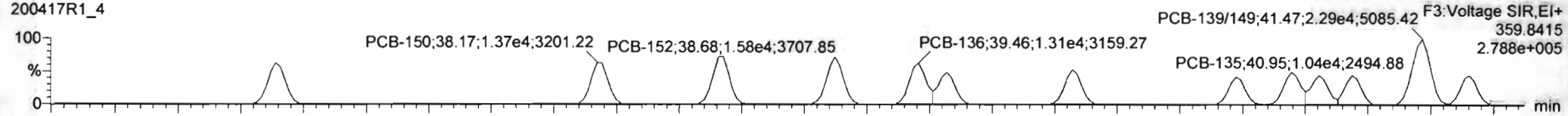
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

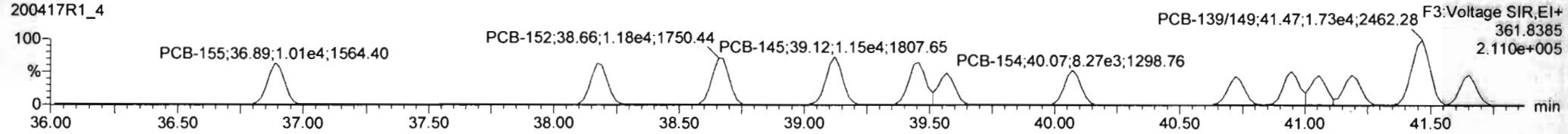
Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

**PCB-155**

200417R1\_4

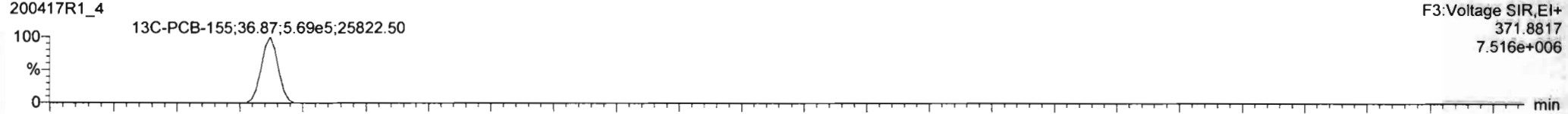


200417R1\_4

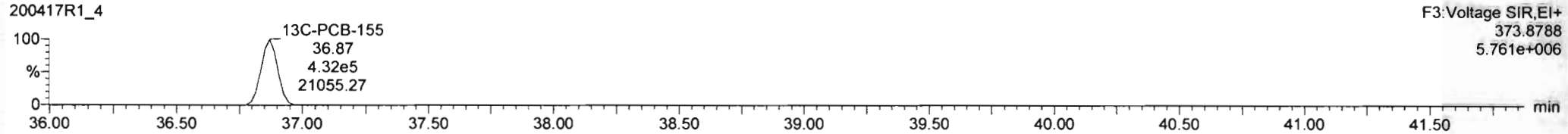


**13C-PCB-155**

200417R1\_4

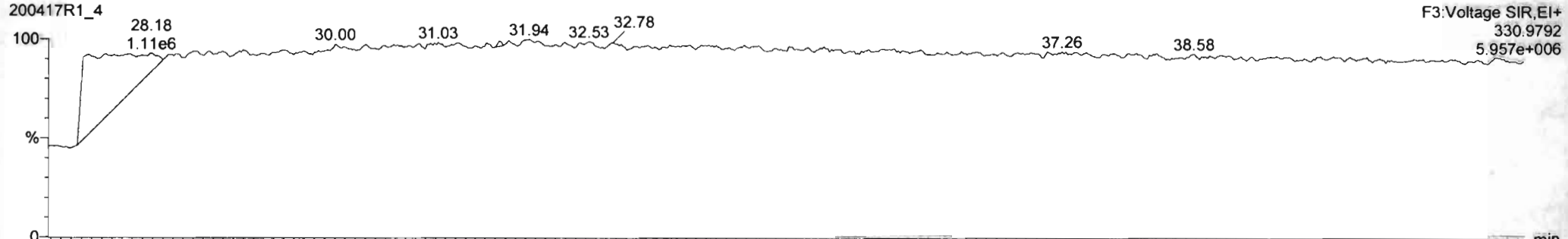


200417R1\_4



**PFK3d**

200417R1\_4



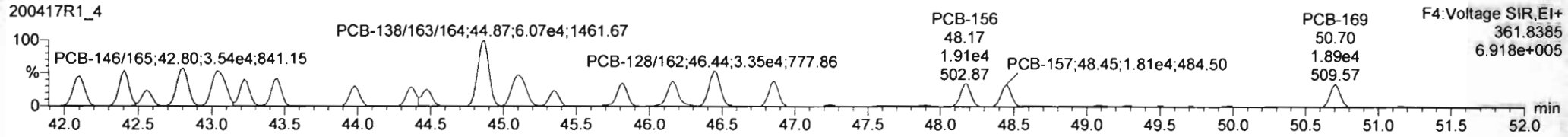
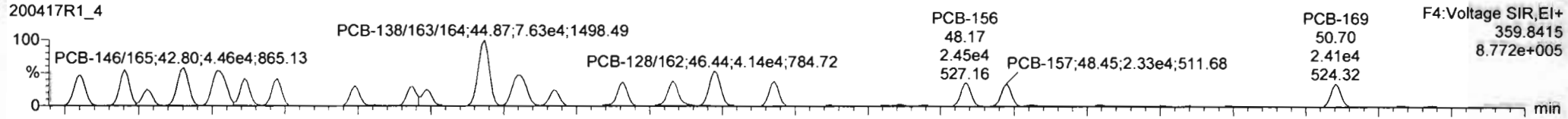
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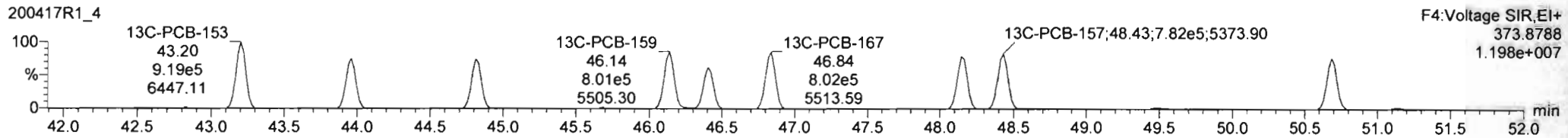
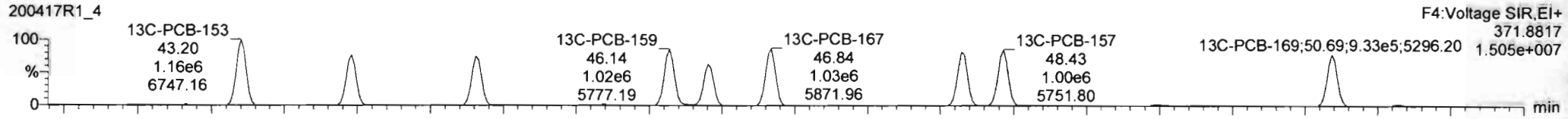
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Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

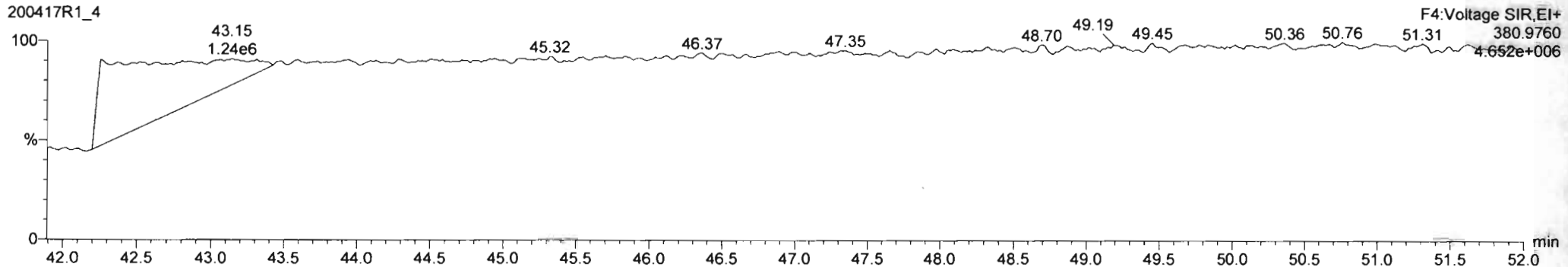
**PCB-134/143**

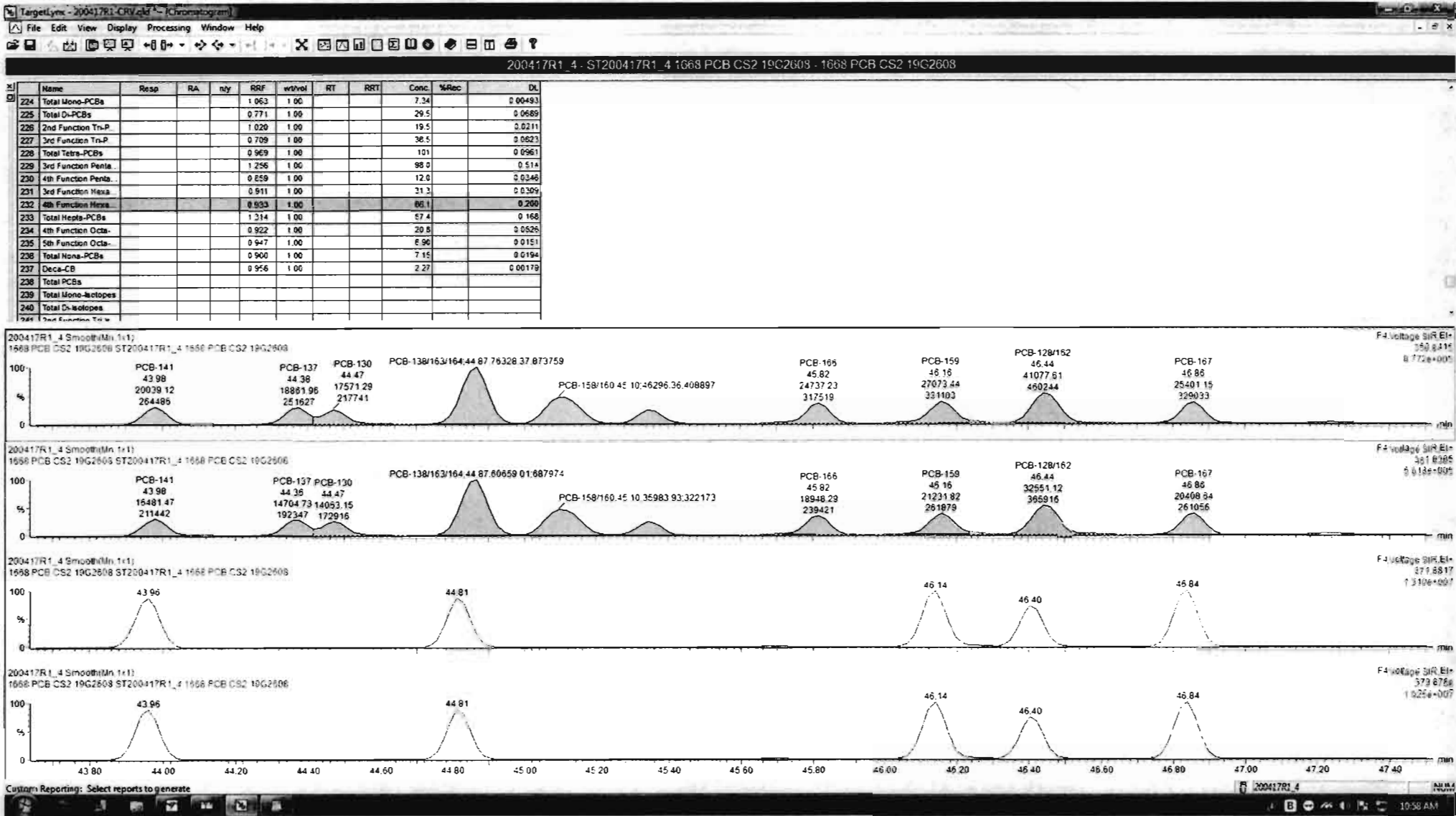


**13C-PCB-153**



**PFK4b**





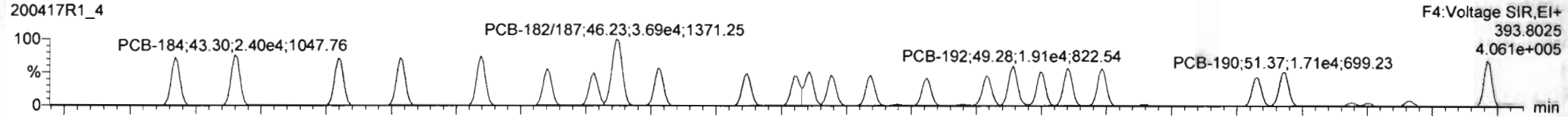
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

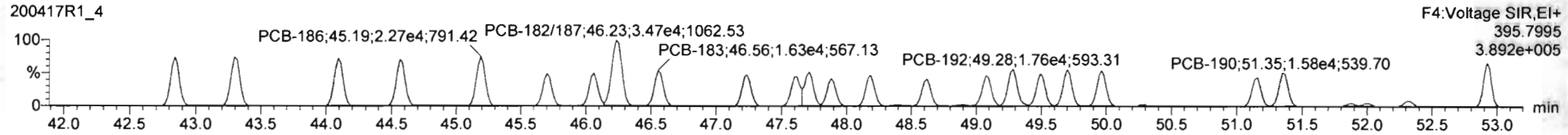
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**PCB-188**

200417R1\_4

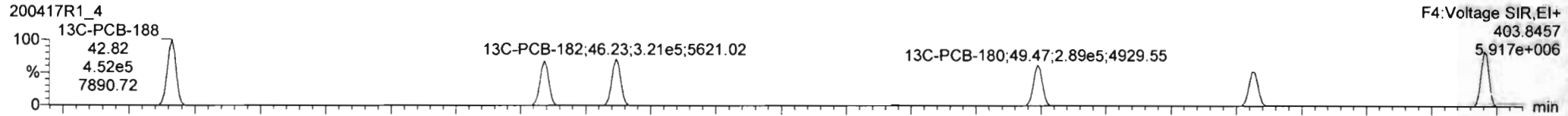


200417R1\_4

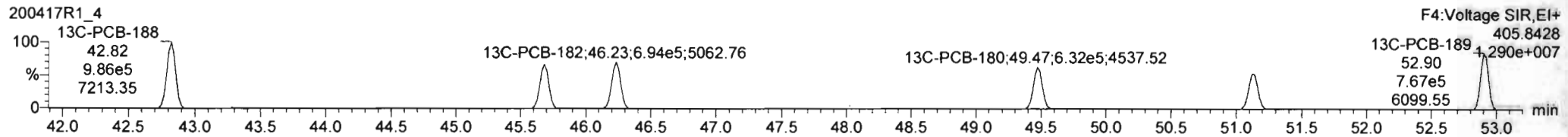


**13C-PCB-188**

200417R1\_4

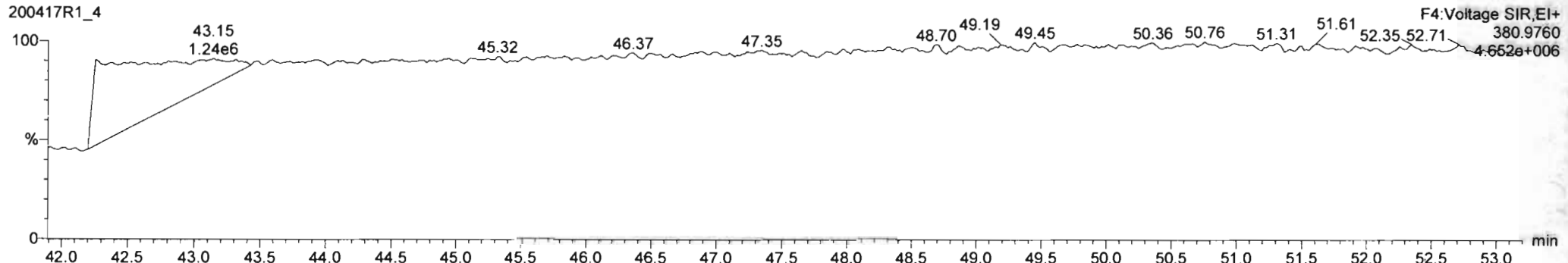


200417R1\_4



**PFK4c**

200417R1\_4



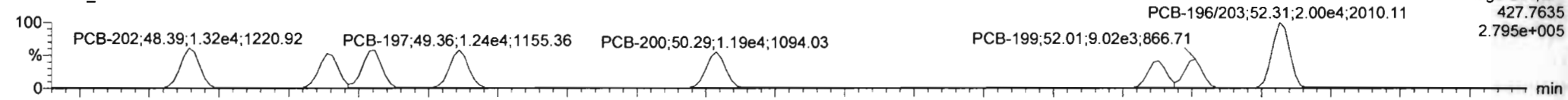
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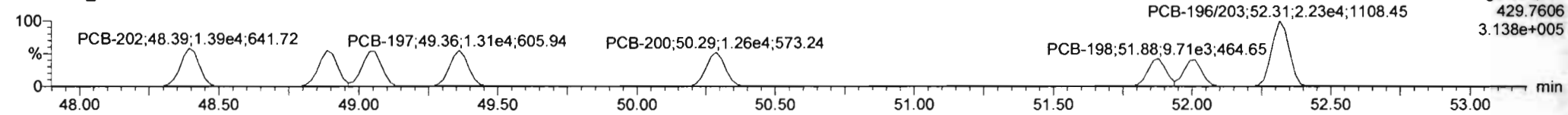
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**PCB-202**

200417R1\_4

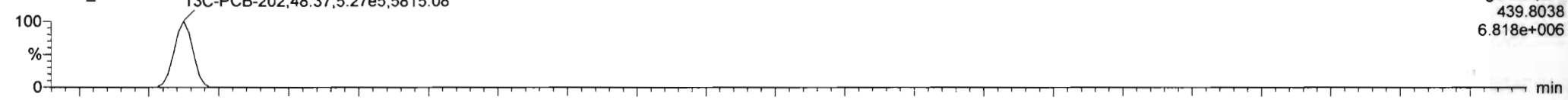


200417R1\_4

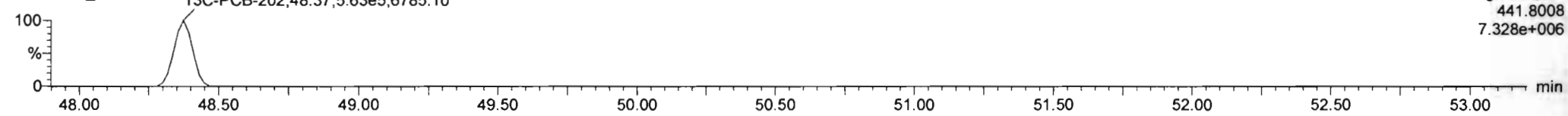


**13C-PCB-202**

200417R1\_4

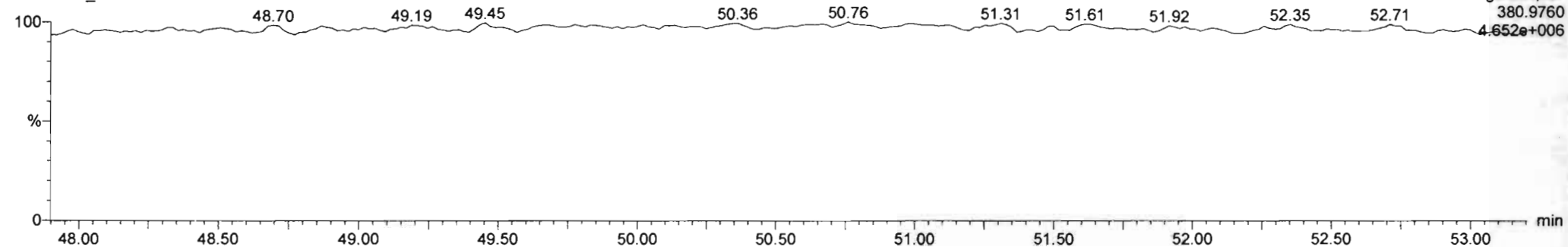


200417R1\_4



**PFK4d**

200417R1\_4



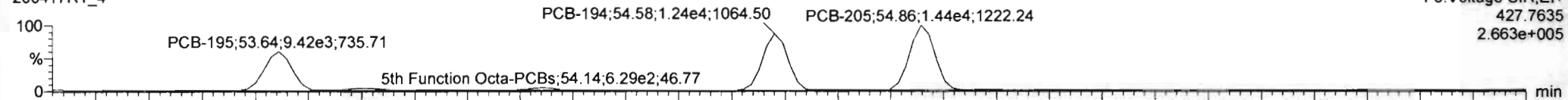
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

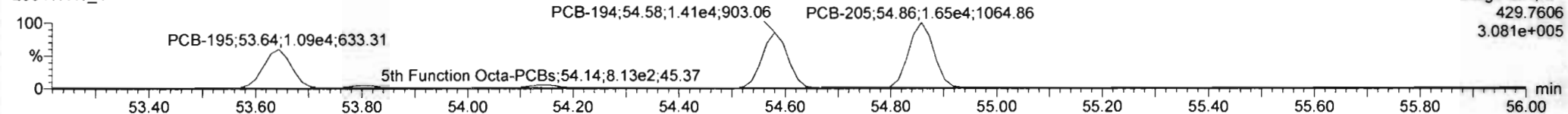
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**PCB-195**

200417R1\_4

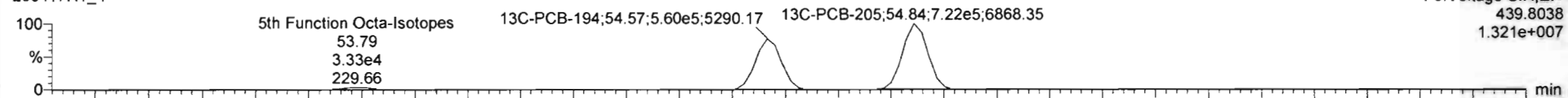


200417R1\_4

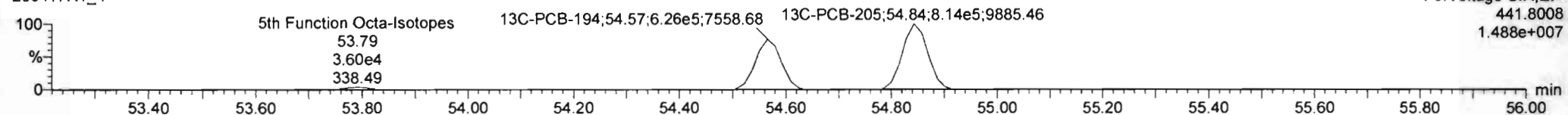


**13C-PCB-194**

200417R1\_4

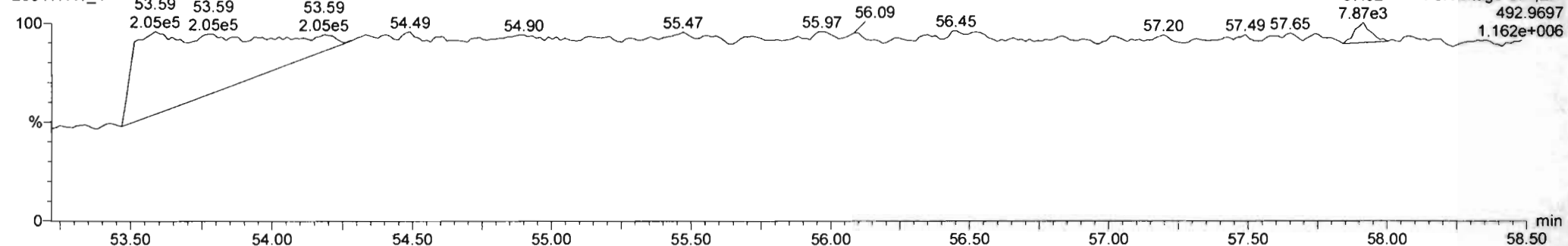


200417R1\_4



**PFK5**

200417R1\_4



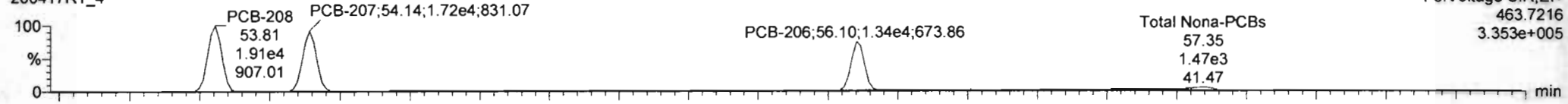
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

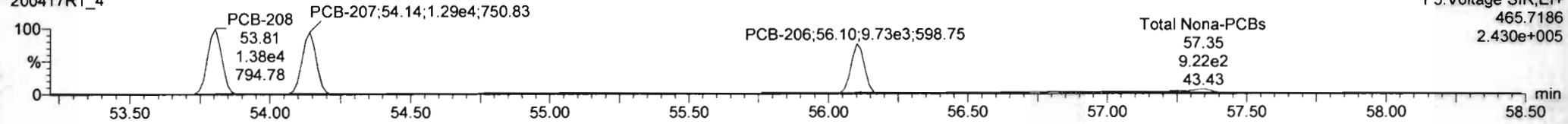
Name: 200417R1\_4, Date: 17-Apr-2020, Time: 19:10:58, ID: ST200417R1\_4 1668 PCB CS2 19G2608, Description: 1668 PCB CS2 19G2608

**PCB-208**

200417R1\_4

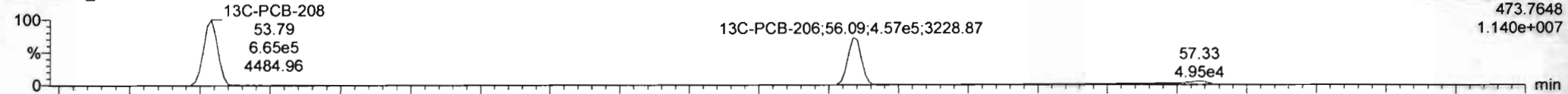


200417R1\_4

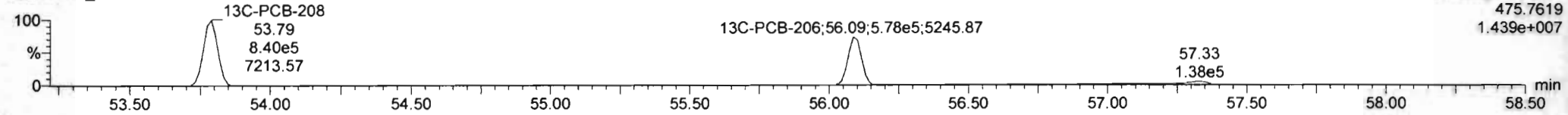


**13C-PCB-208**

200417R1\_4

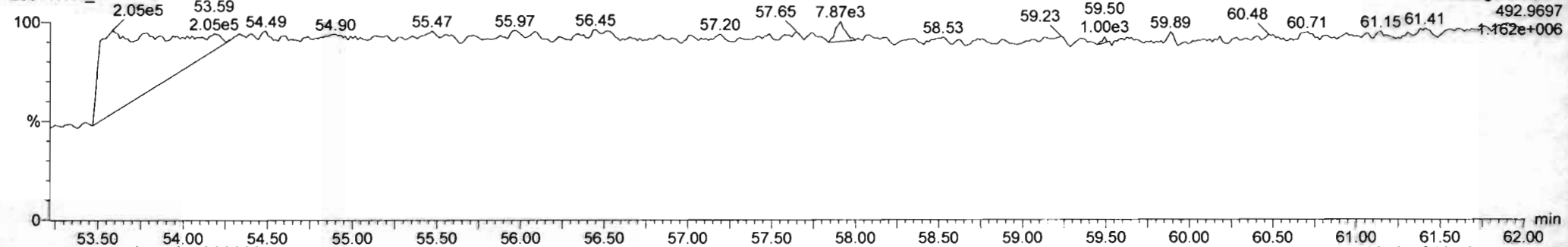


200417R1\_4



**PFK5a**

200417R1\_4





Dataset: Untitled

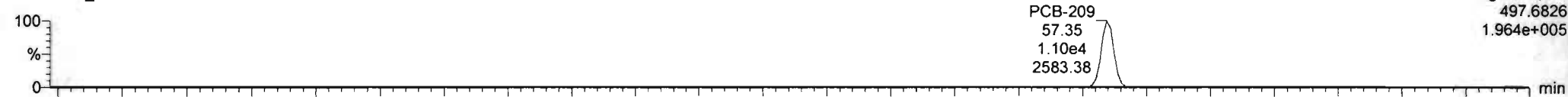
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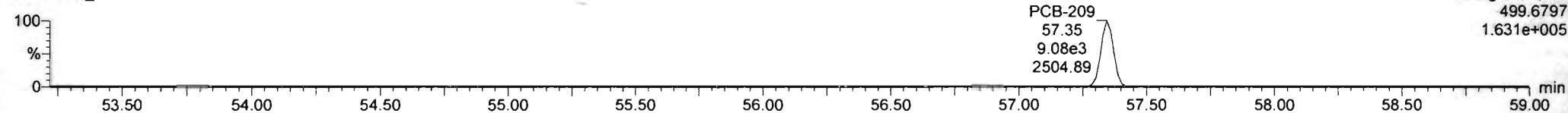
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**PCB-209**

200417R1\_4

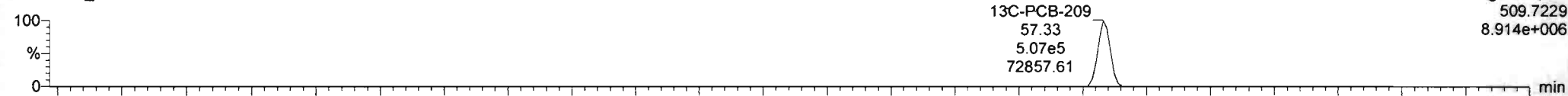


200417R1\_4

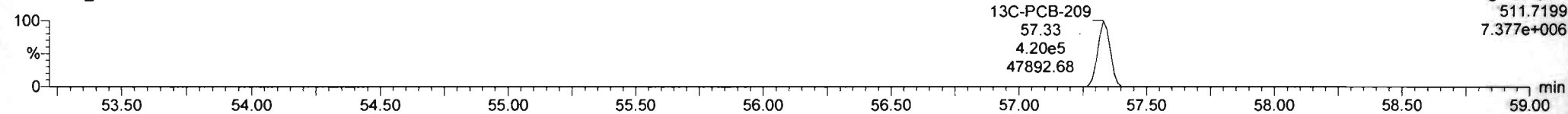


**13C-PCB-209**

200417R1\_4

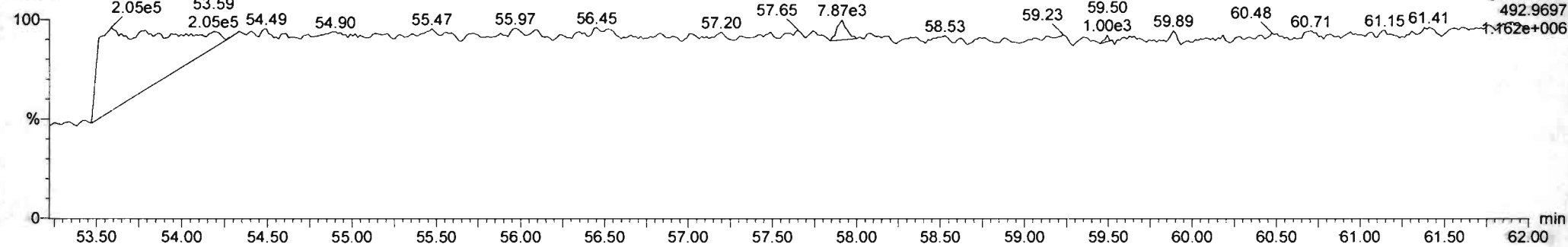


200417R1\_4



**PFK5b**

200417R1\_4

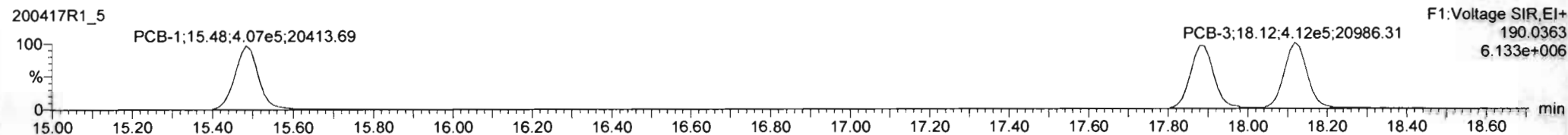
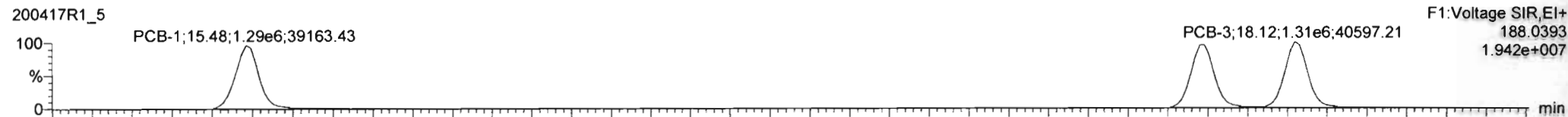


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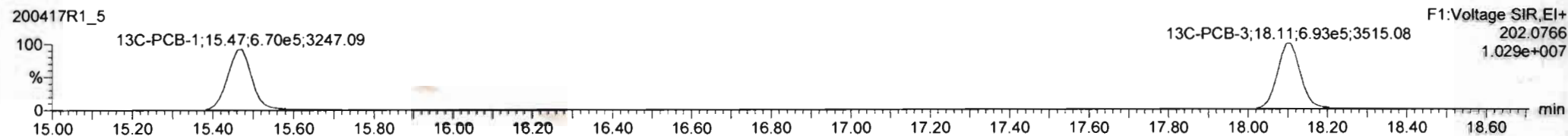
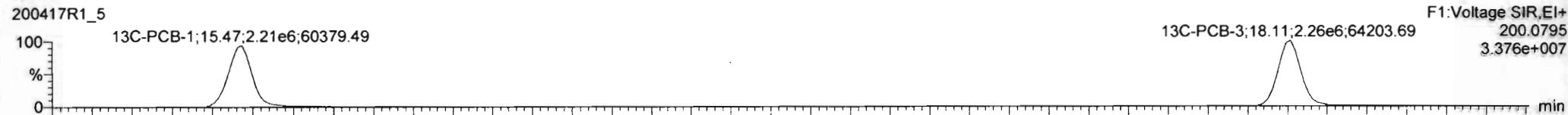
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

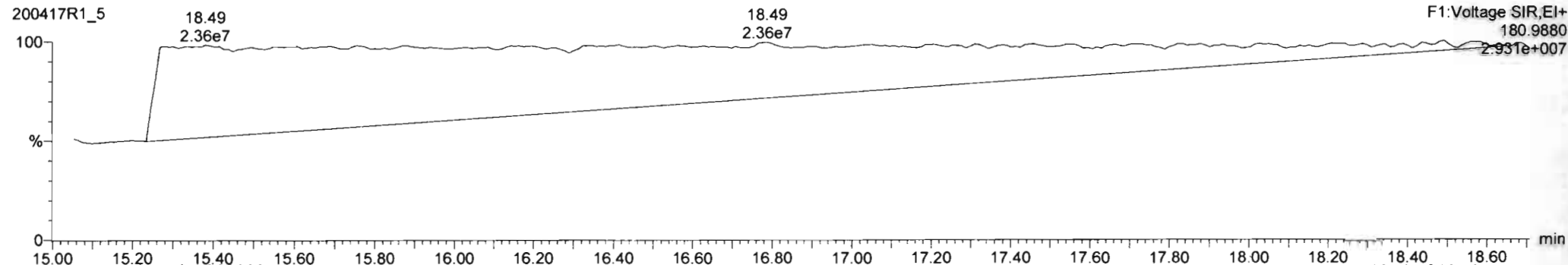
PCB-1

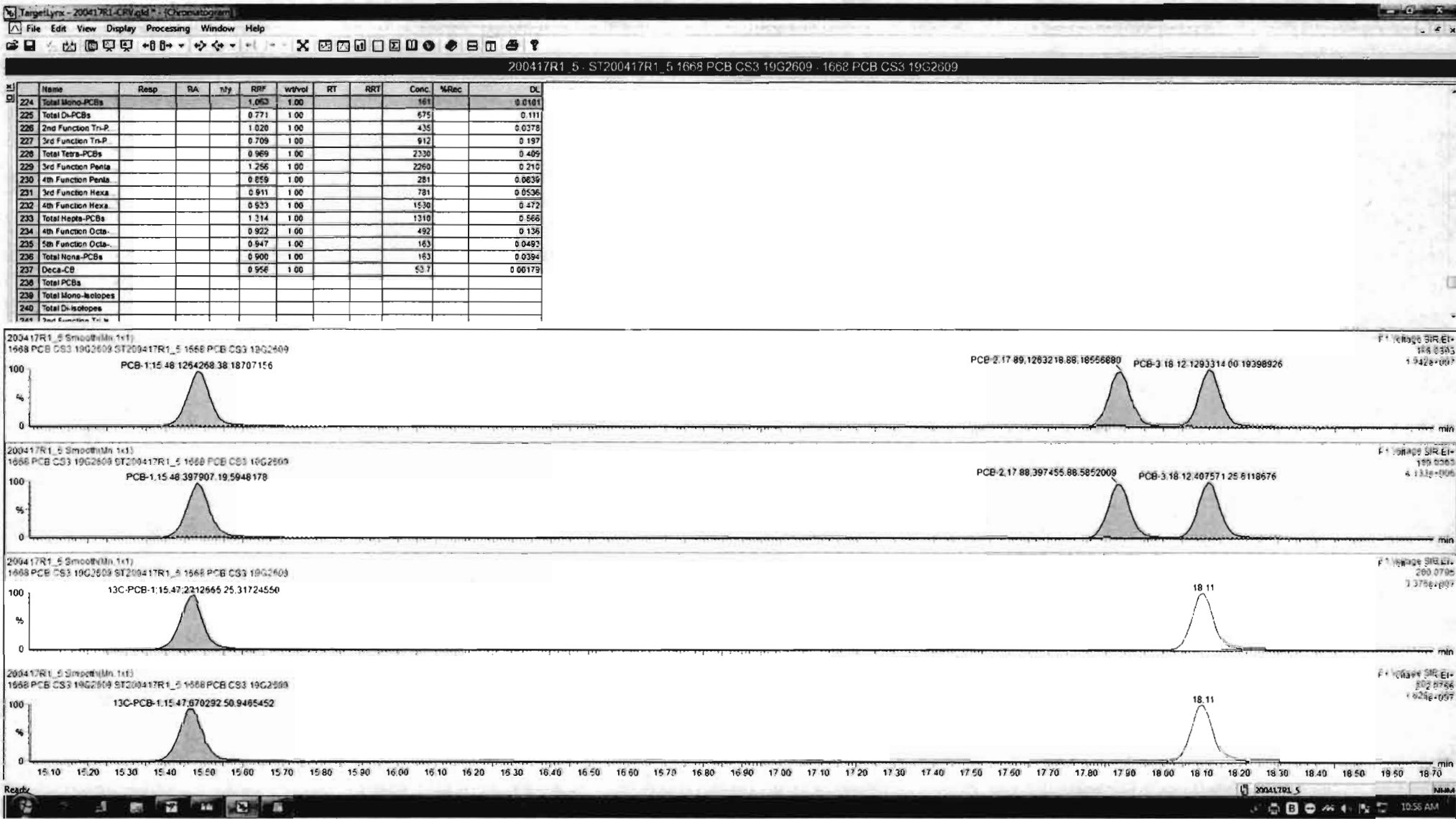


13C-PCB-1



PFK1



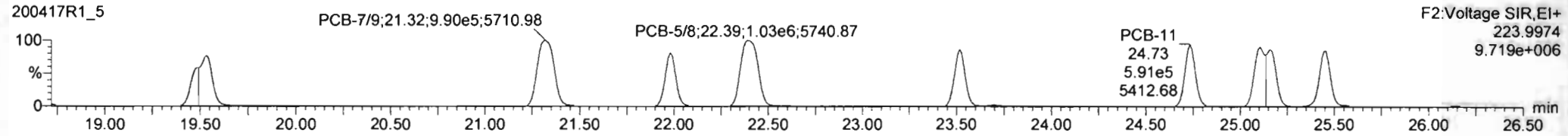
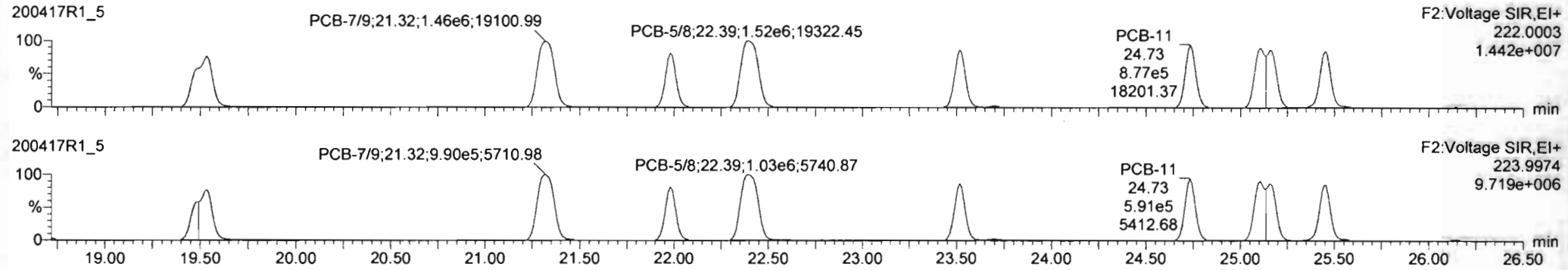


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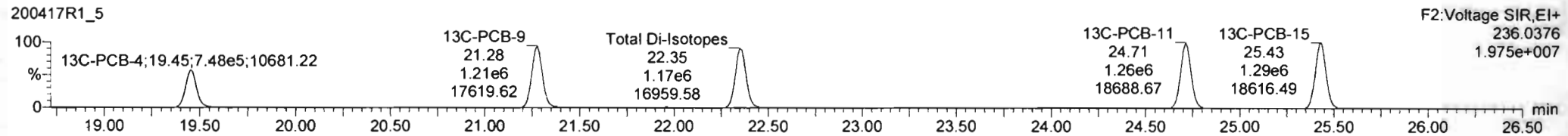
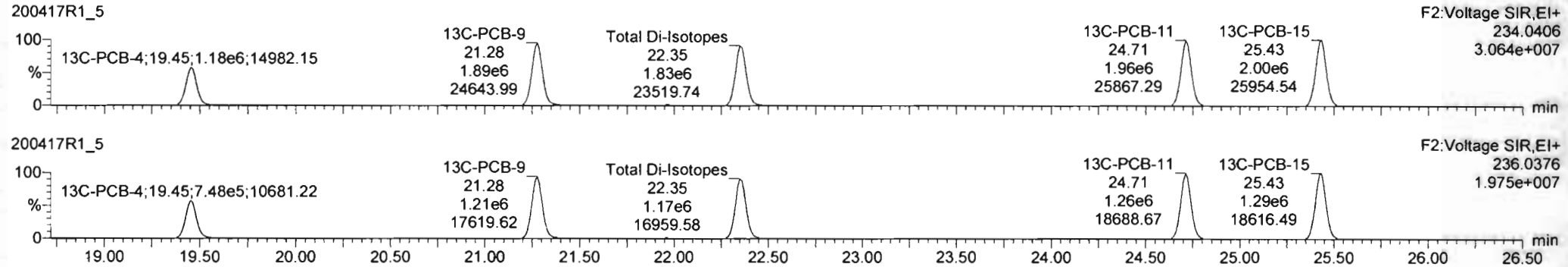
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Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

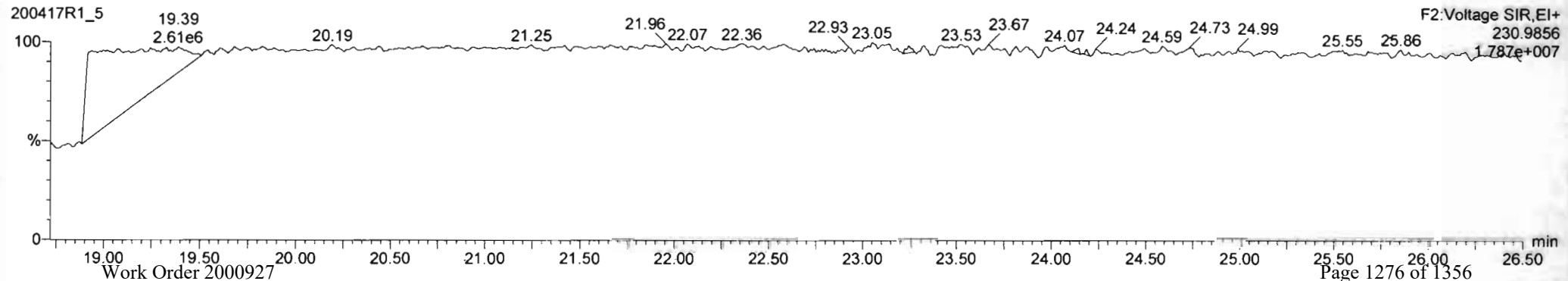
**PCB-4/10**

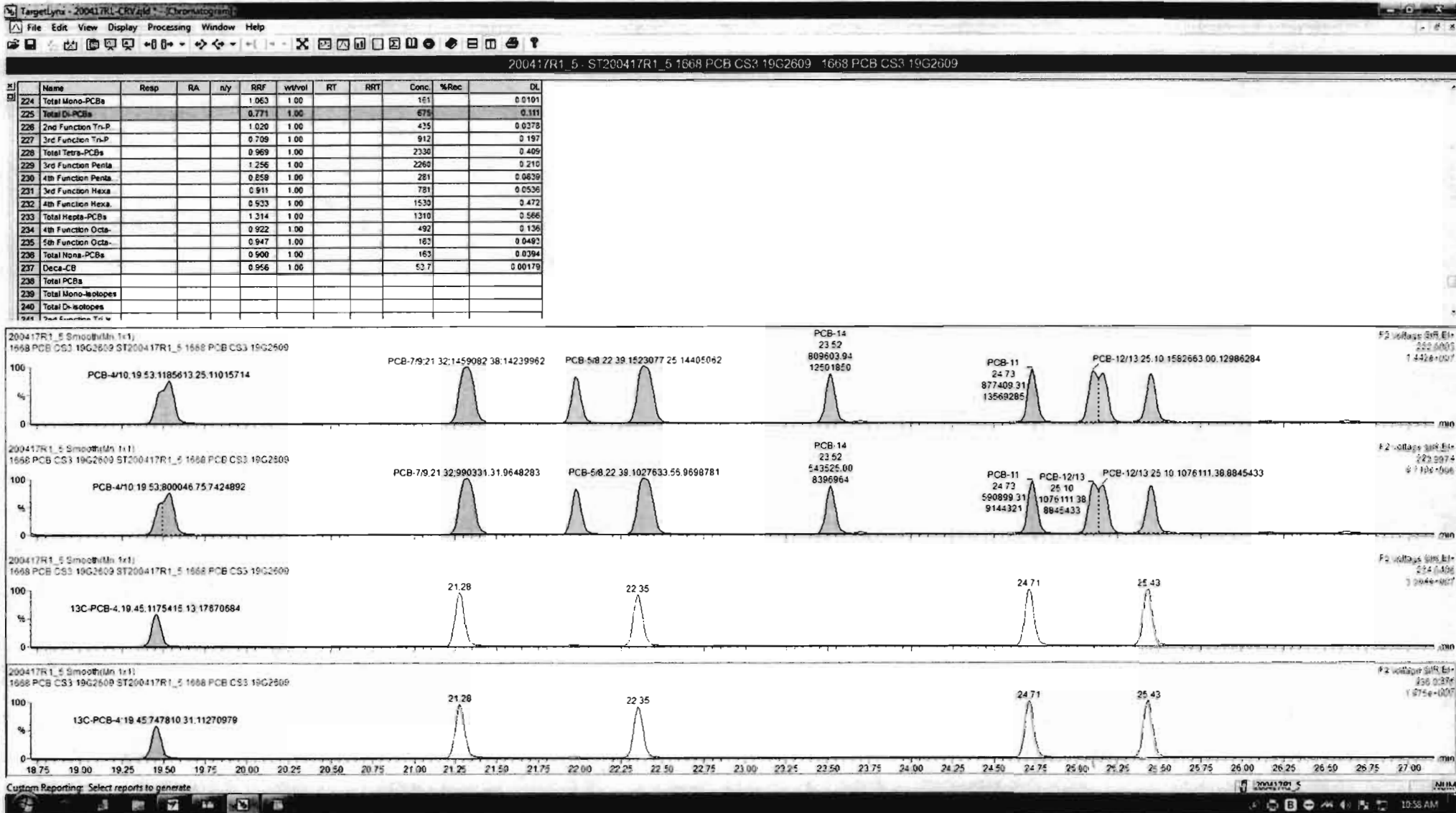


**13C-PCB-4**



**PFK2a**



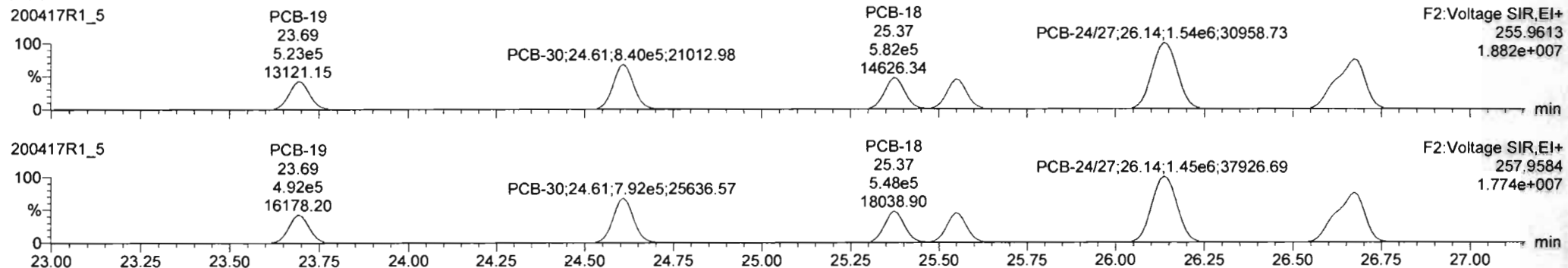


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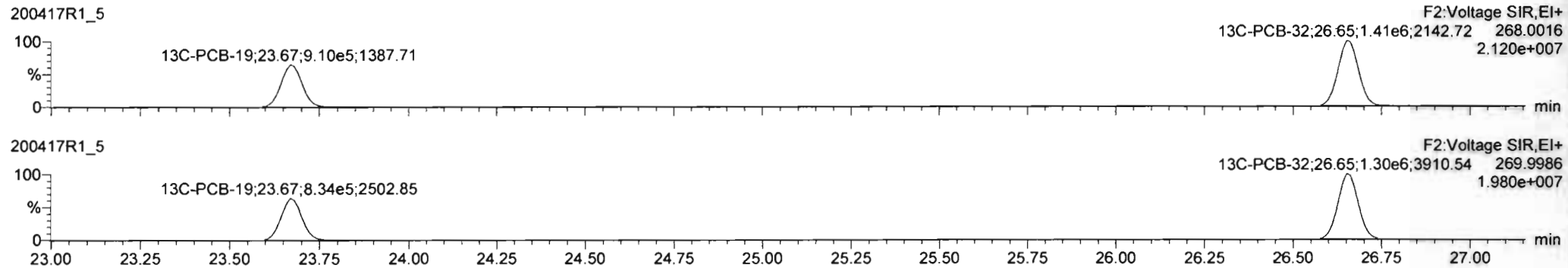
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

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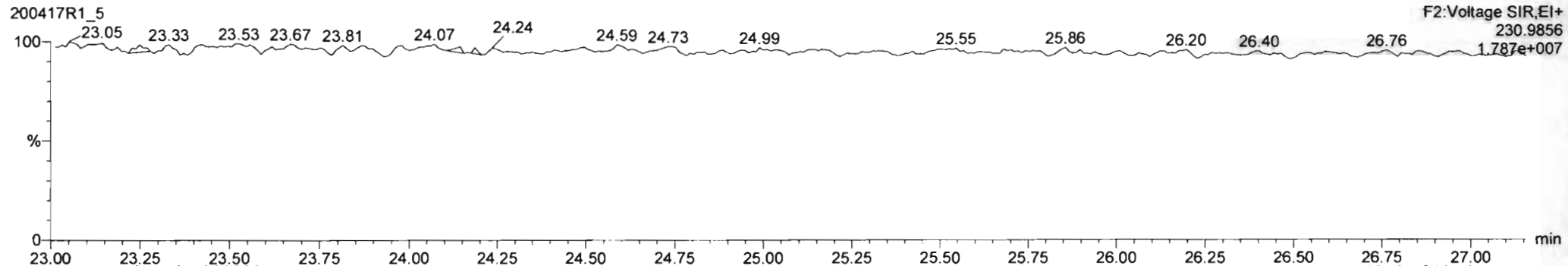
**PCB-19**



**13C-PCB-19**



**PFK2b**



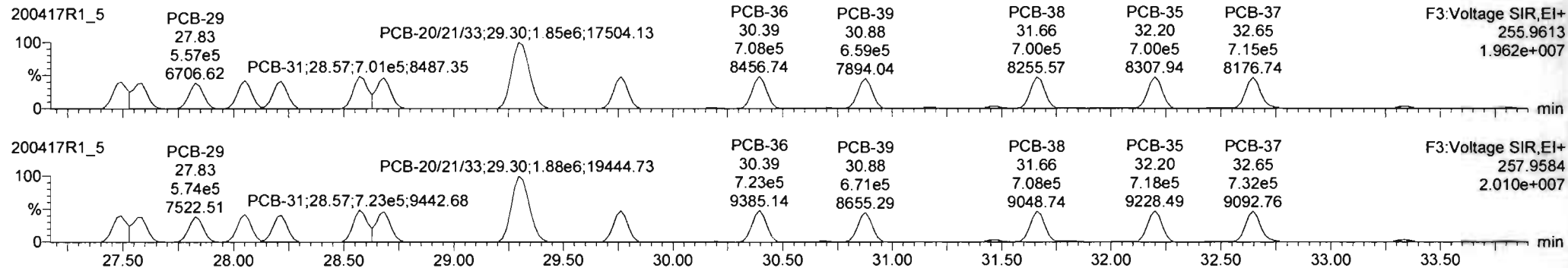
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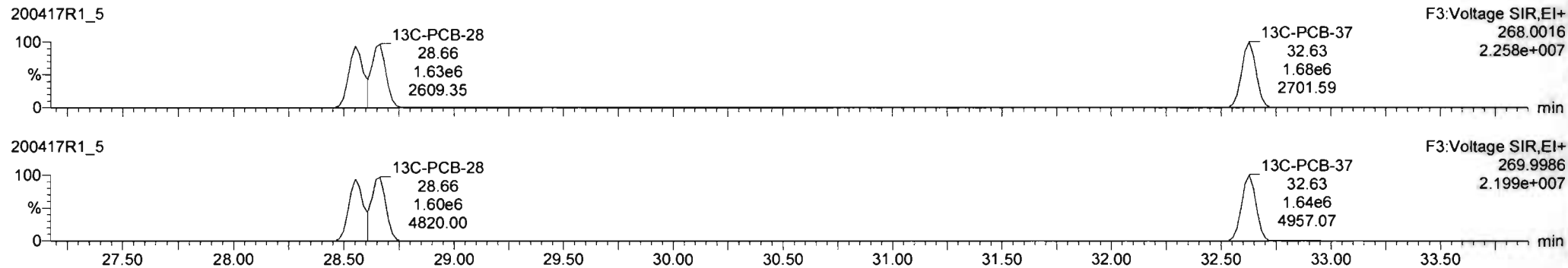
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Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

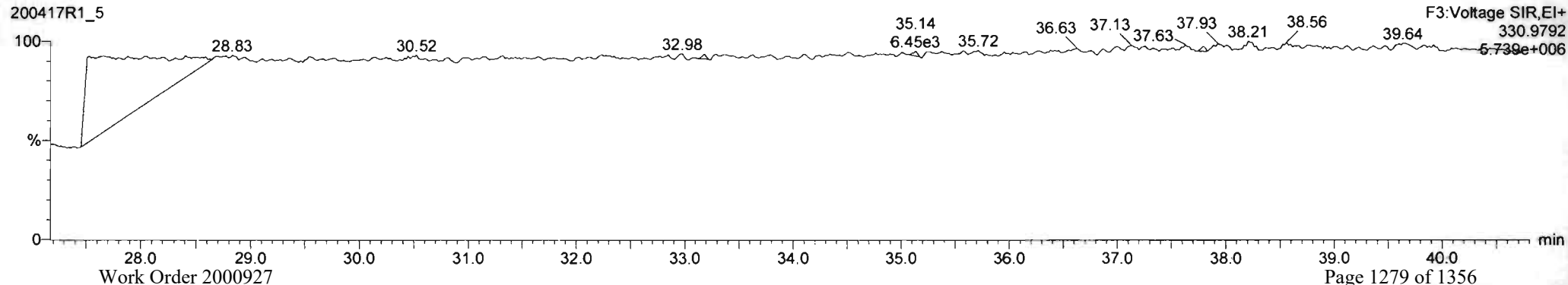
**PCB-34**

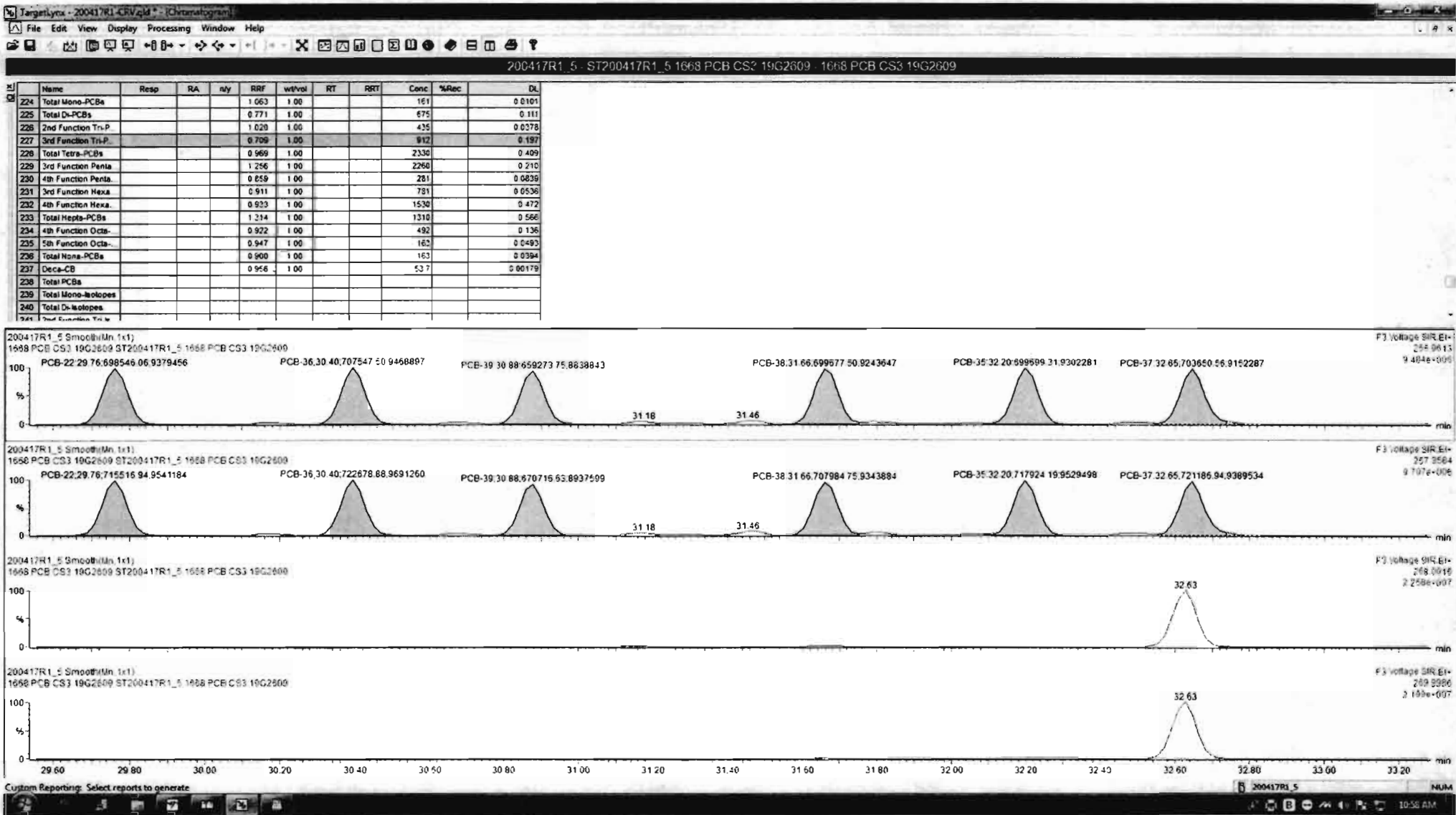


**13C-PCB-28**



**PFK3a**





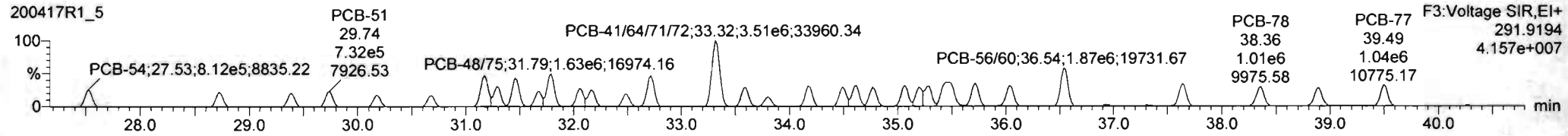
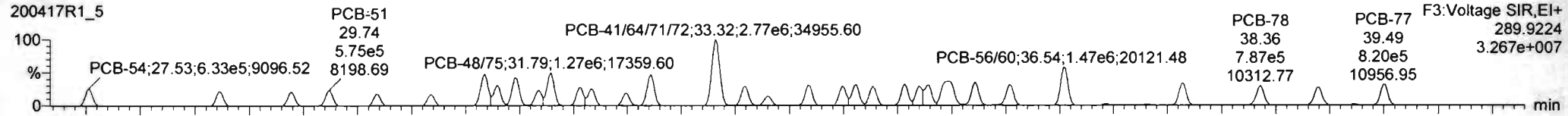


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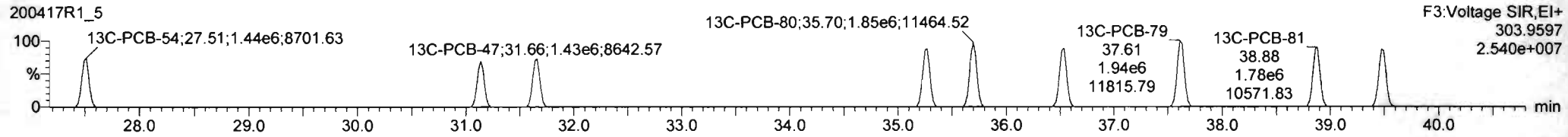
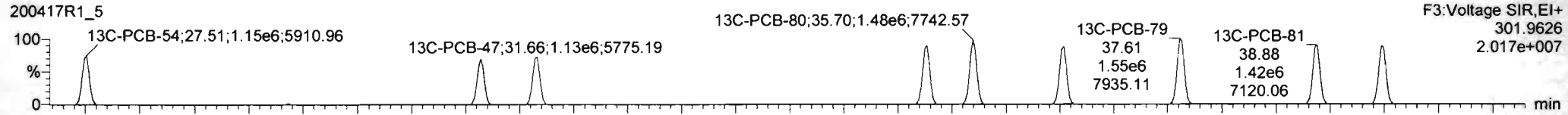
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

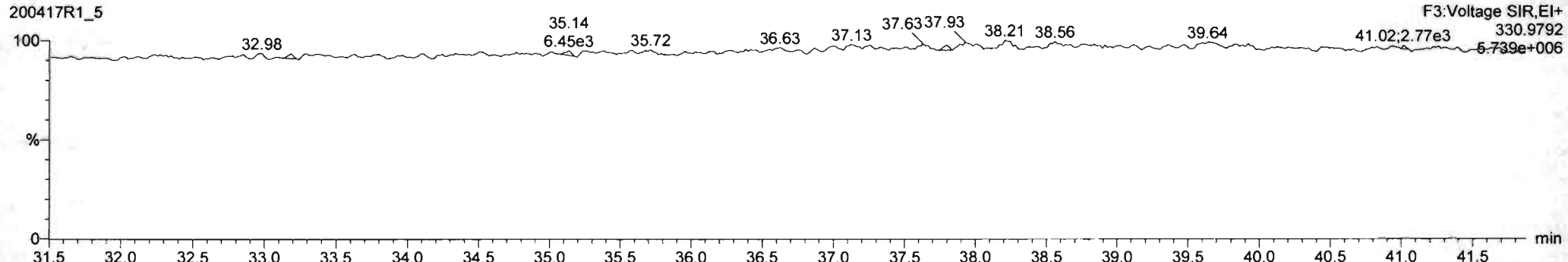
PCB-54



13C-PCB-54



PFK3b



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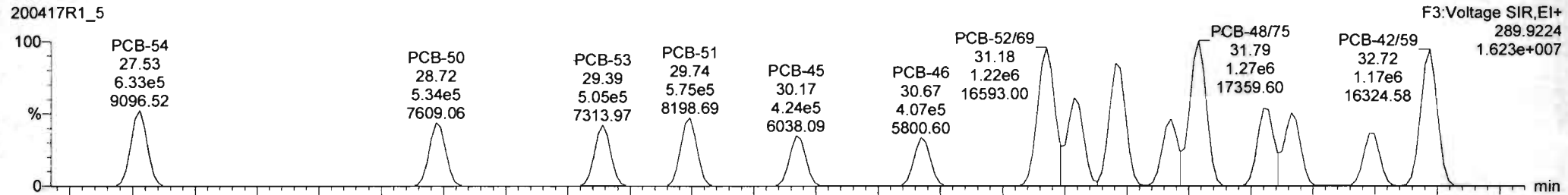
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

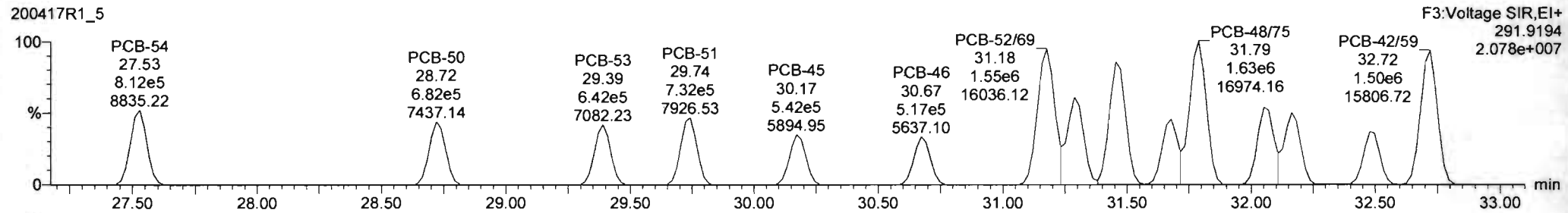
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PCB-50

200417R1\_5

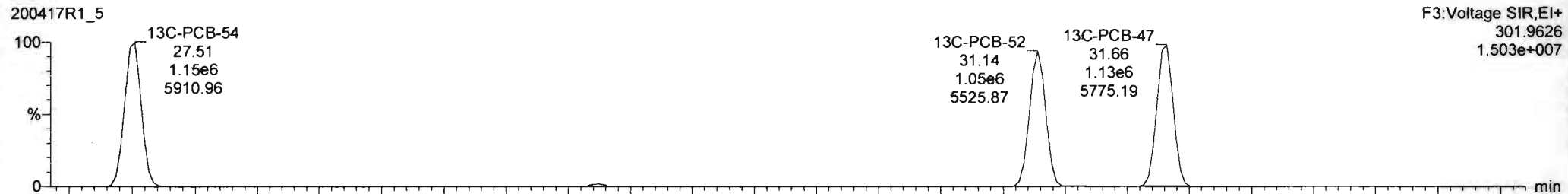


200417R1\_5



13C-PCB-52

200417R1\_5



200417R1\_5



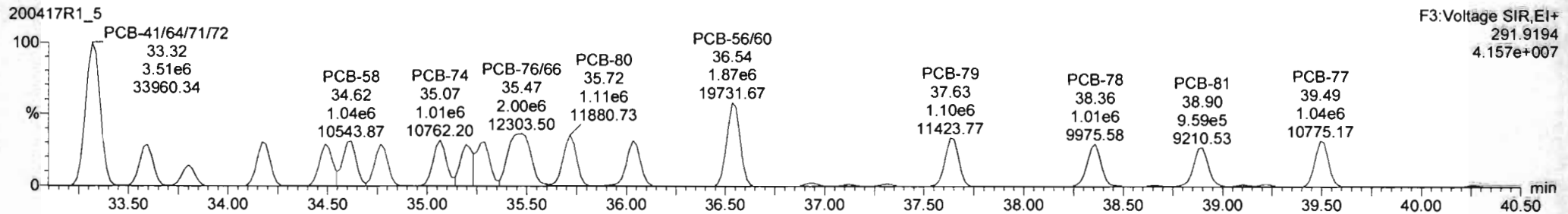
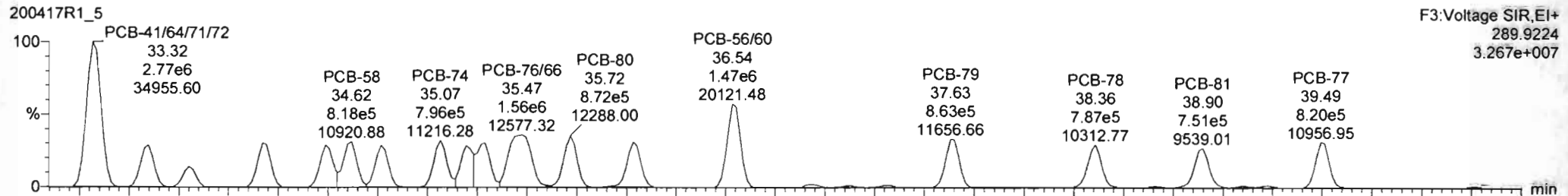
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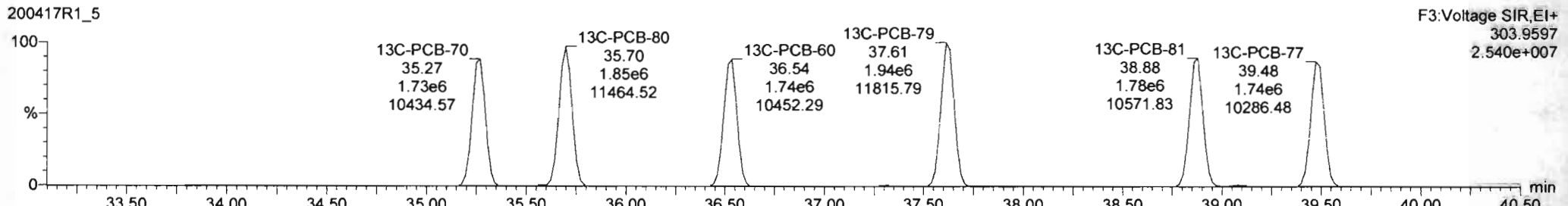
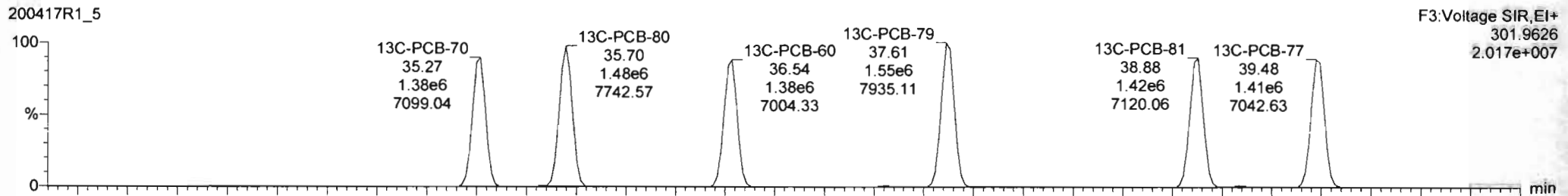
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Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

PCB-68

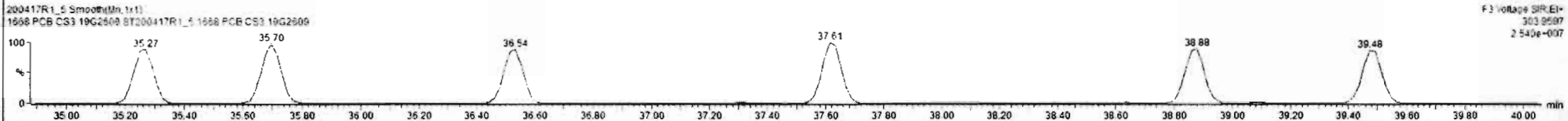
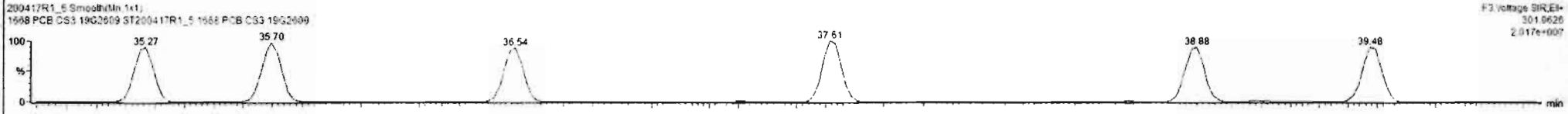
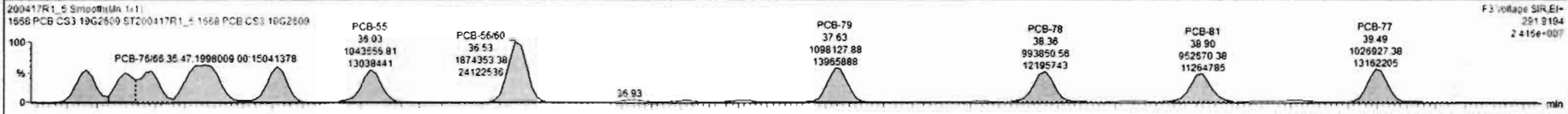
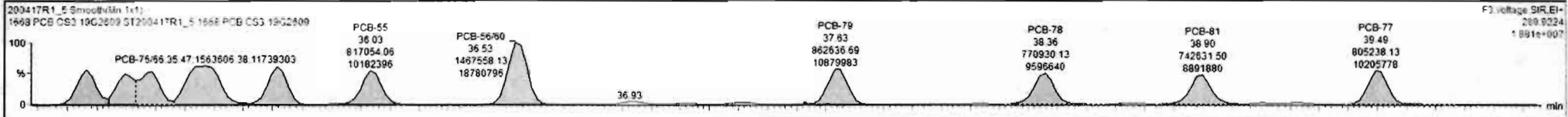


13C-PCB-60



200417R1\_5 - ST200417R1\_5 1668 PCB CS3 19G2609 - 1668 PCB CS3 19G2609

Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc.	%Rec	DL
224 Total Mono-PCBs				1.063	1.00			161		0.0101
225 Total Di-PCBs				0.771	1.00			675		0.111
226 2nd Function Tri-P				1.020	1.00			435		0.0378
227 3rd Function Tri-P				0.709	1.00			912		0.157
228 Total Tetra-PCBs				0.909	1.00			2338		0.409
229 3rd Function Penta				1.256	1.00			2260		0.210
230 4th Function Penta				0.659	1.00			281		0.0839
231 3rd Function Hexa				0.911	1.00			781		0.0536
232 4th Function Hexa				0.933	1.00			1530		0.472
233 Total Hepta-PCBs				1.314	1.00			1310		0.566
234 4th Function Octa-				0.922	1.00			492		0.136
235 5th Function Octa-				0.947	1.00			163		0.0482
236 Total Nona-PCBs				0.900	1.00			163		0.0394
237 Deca-CB				0.956	1.00			53.7		0.00179
238 Total PCBs										
239 Total Mono-Isotopes										
240 Total Di-Isotopes										
241 2nd Function Tri-P										



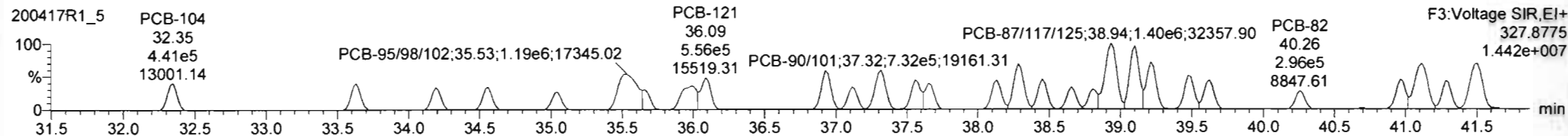
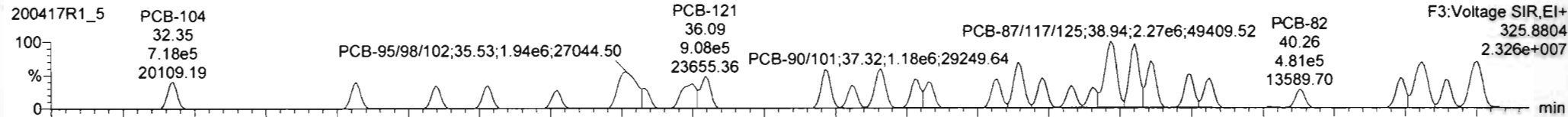
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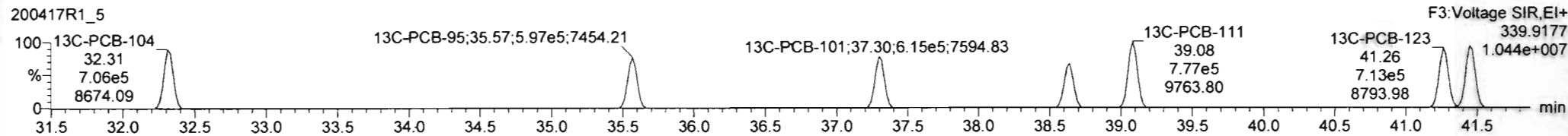
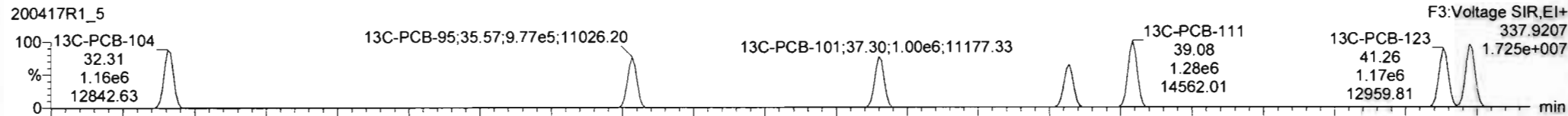
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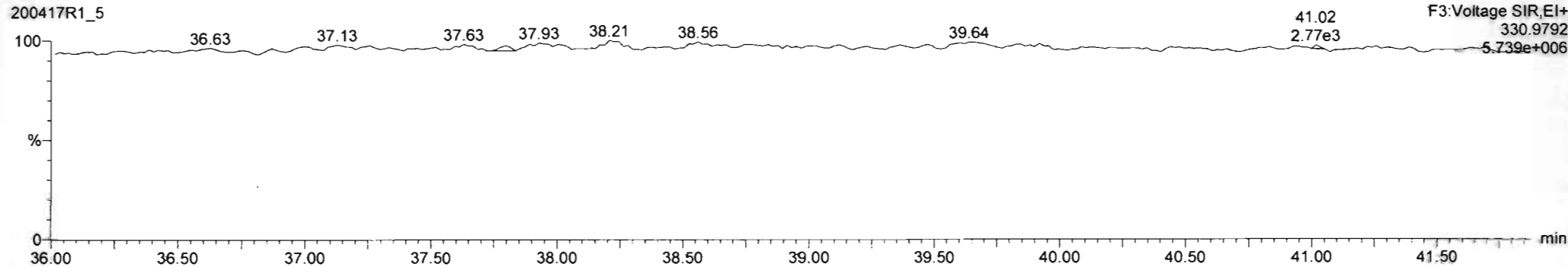
**PCB-104**



**13C-PCB-104**



**PFK3c**

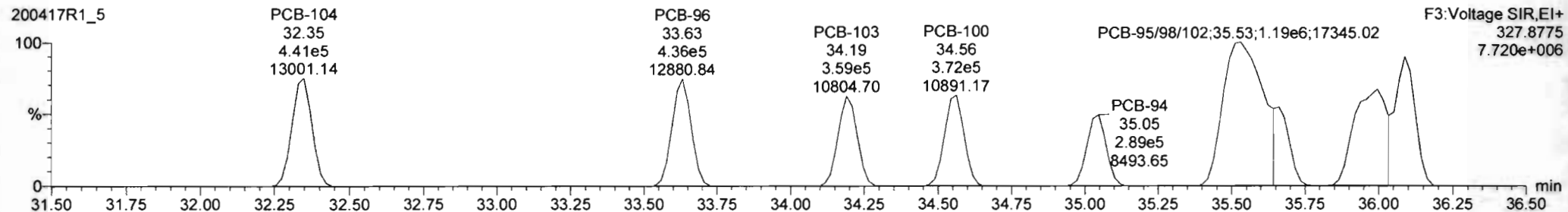
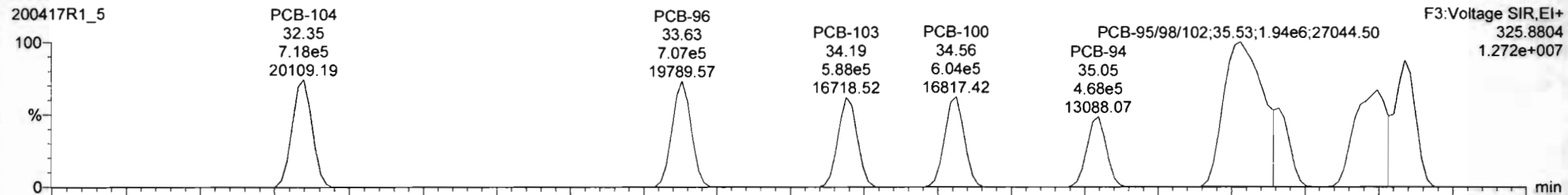


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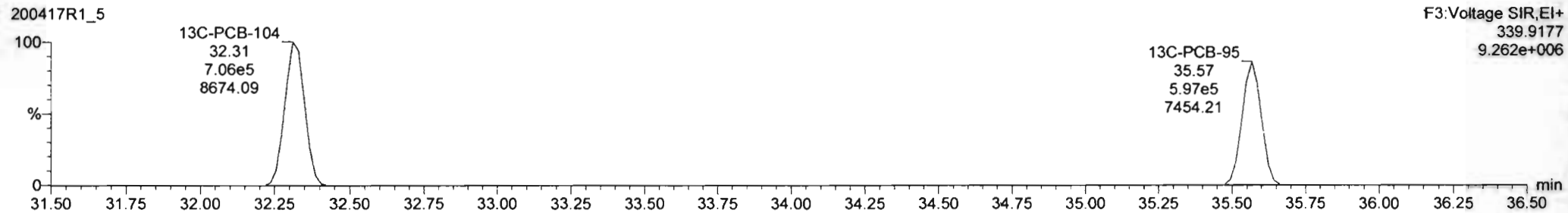
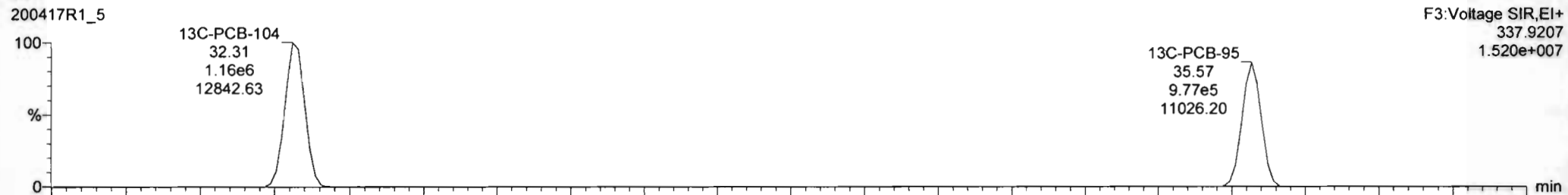
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Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

PCB-96



13C-PCB-95



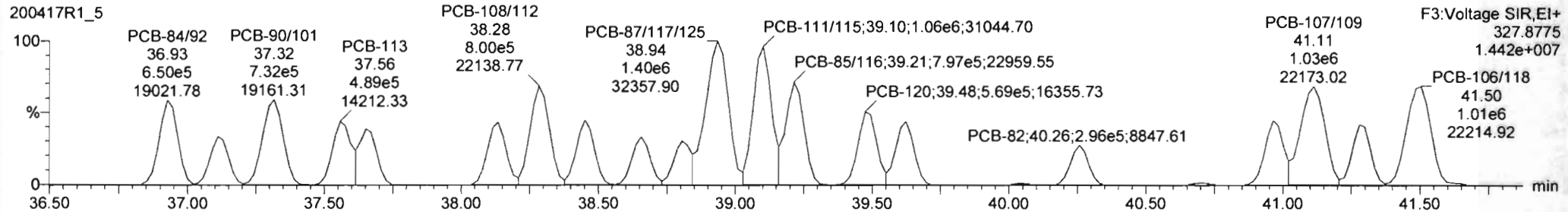
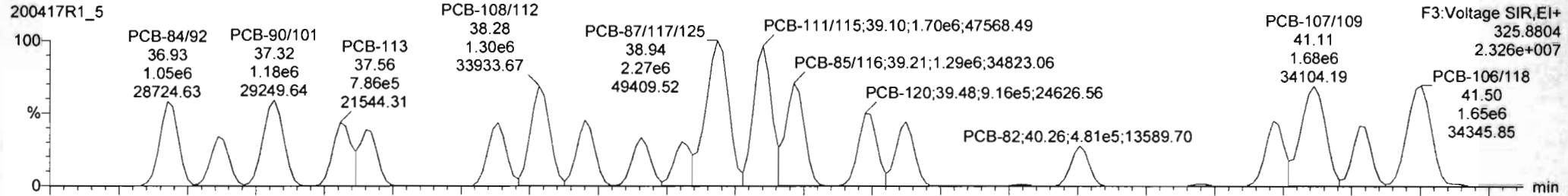
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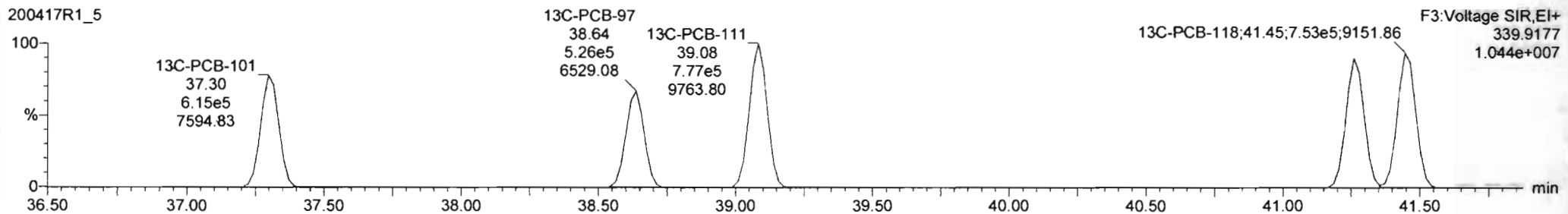
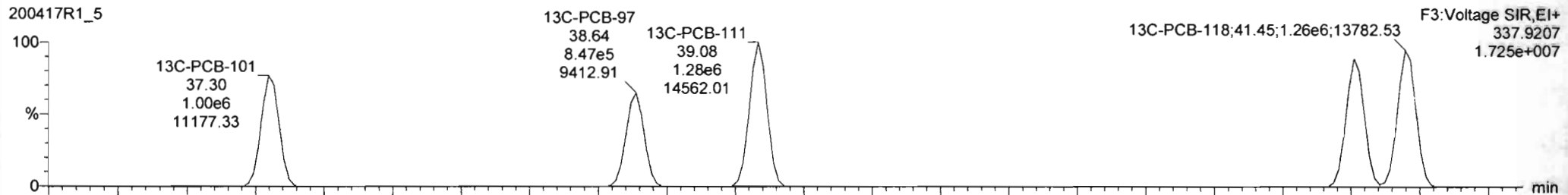
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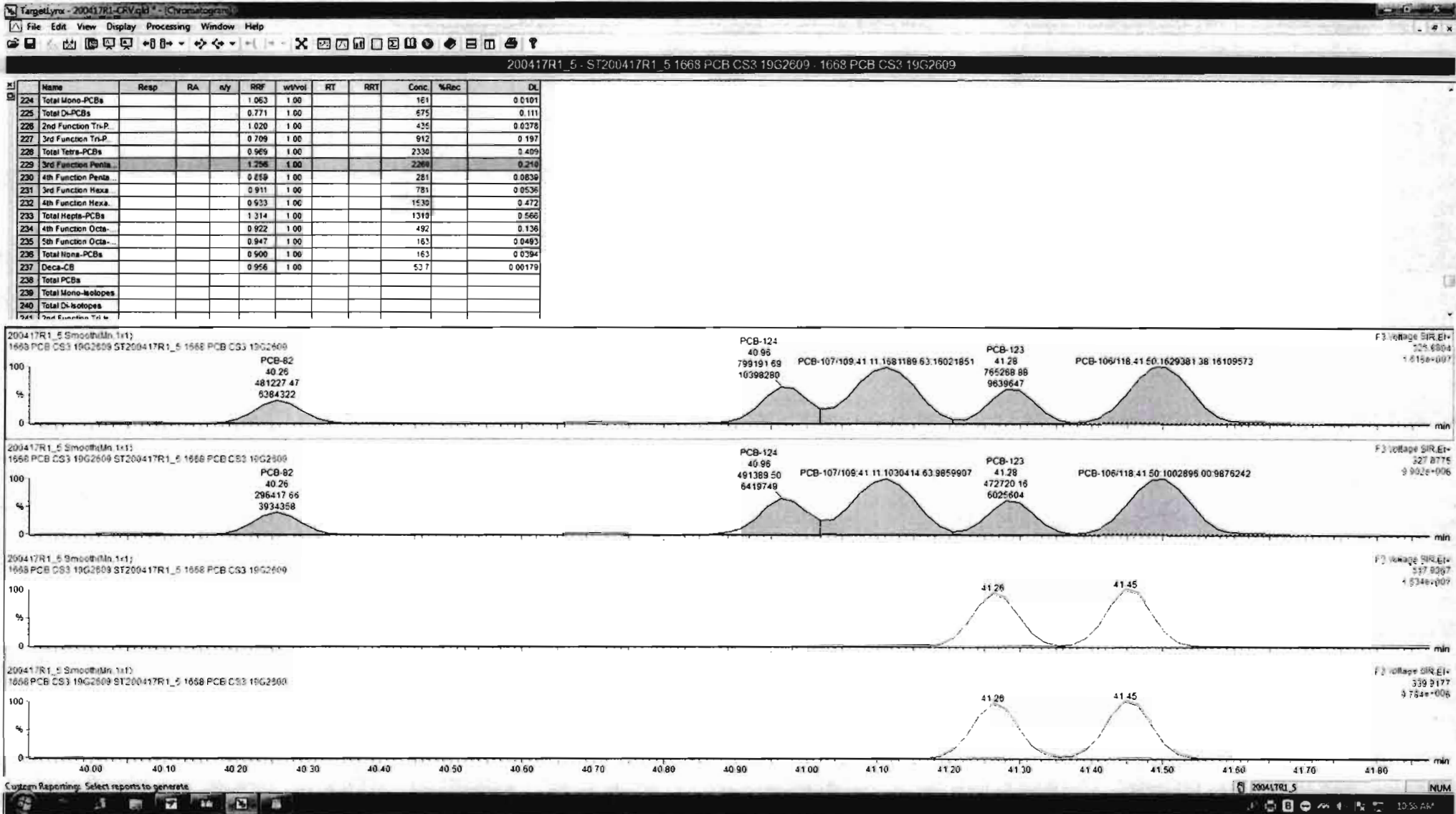
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PCB-119



13C-PCB-111





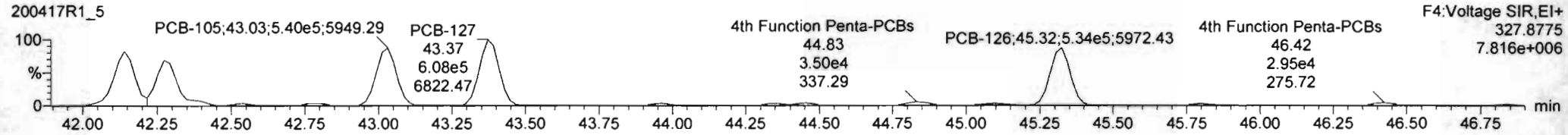
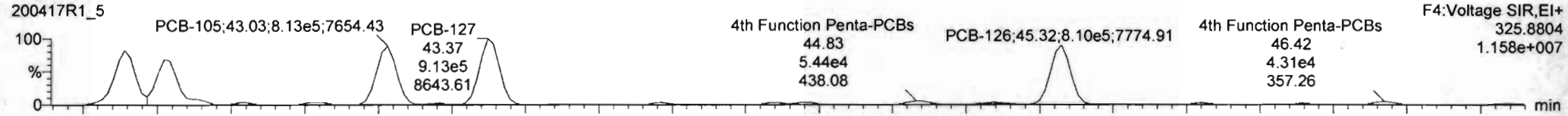


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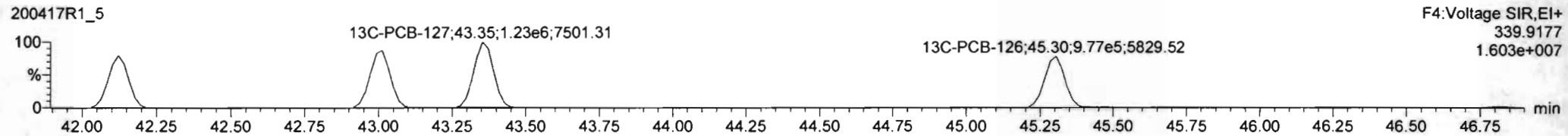
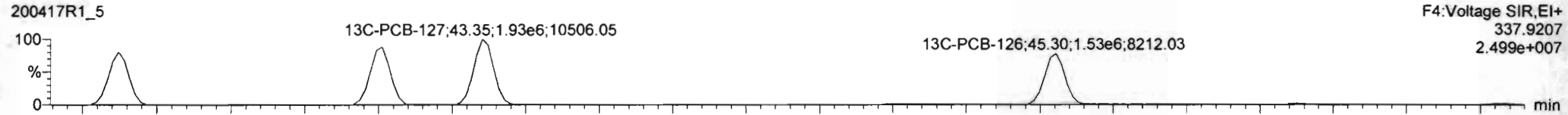
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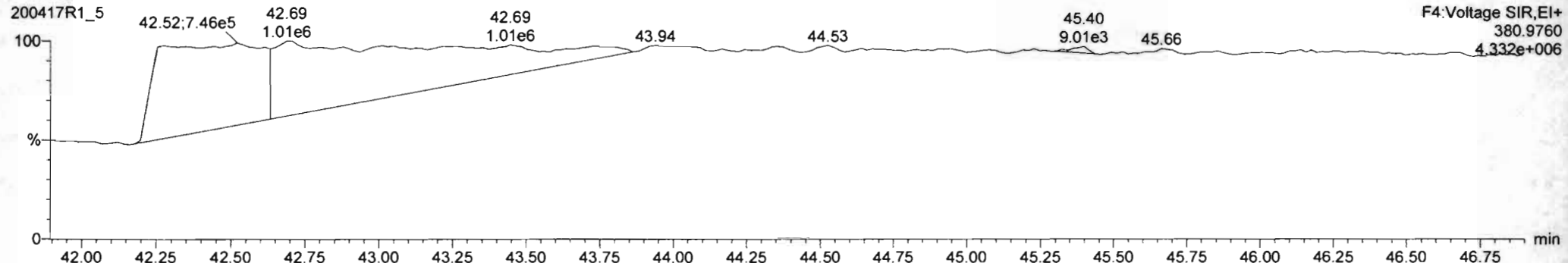
**PCB-114**

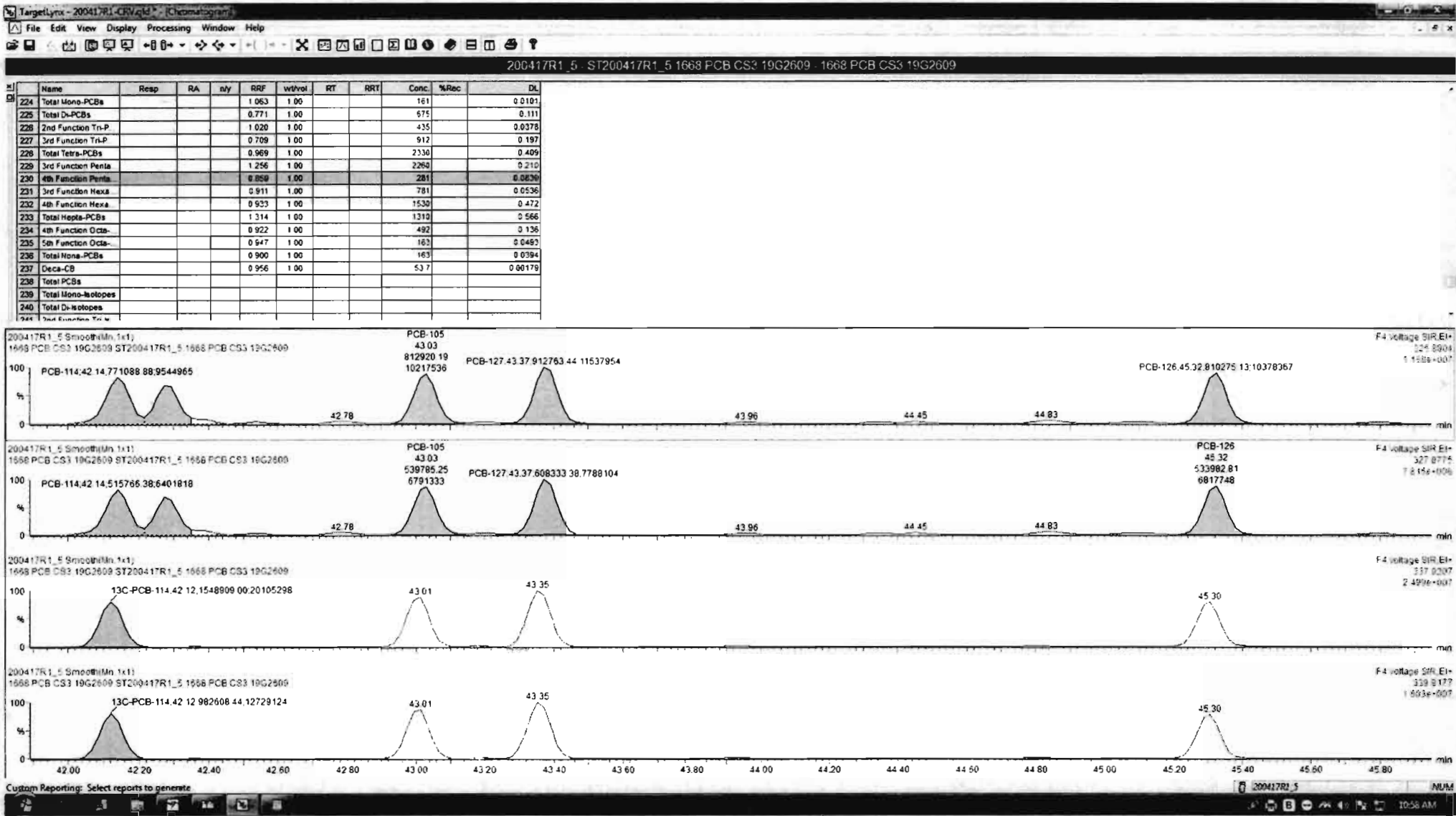


**13C-PCB-114**



**PFK4a**





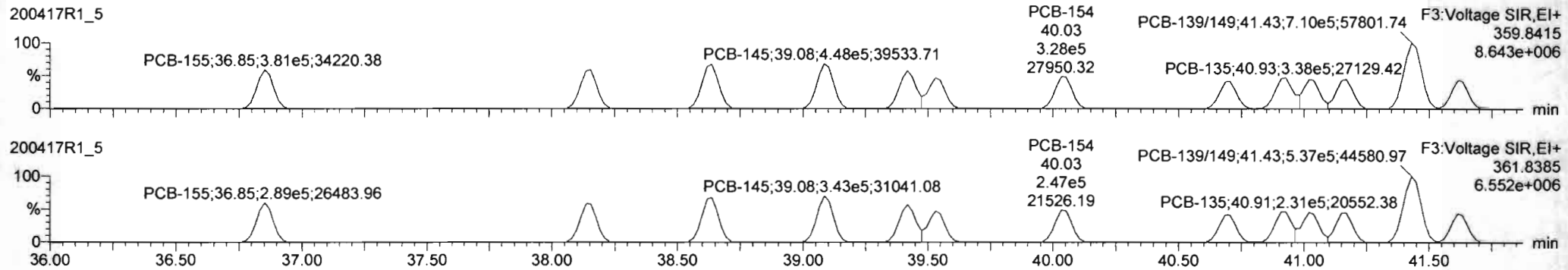
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

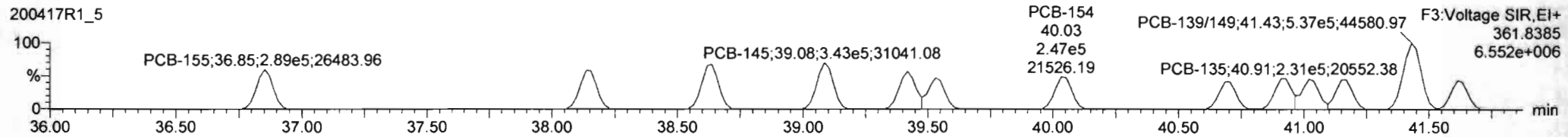
Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

**PCB-155**

200417R1\_5

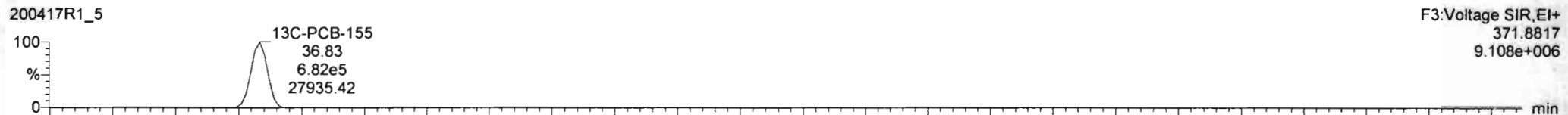


200417R1\_5

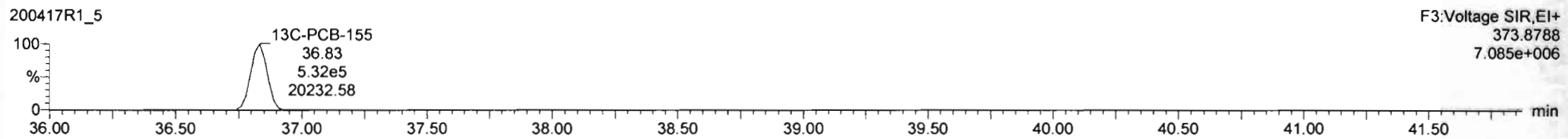


**13C-PCB-155**

200417R1\_5

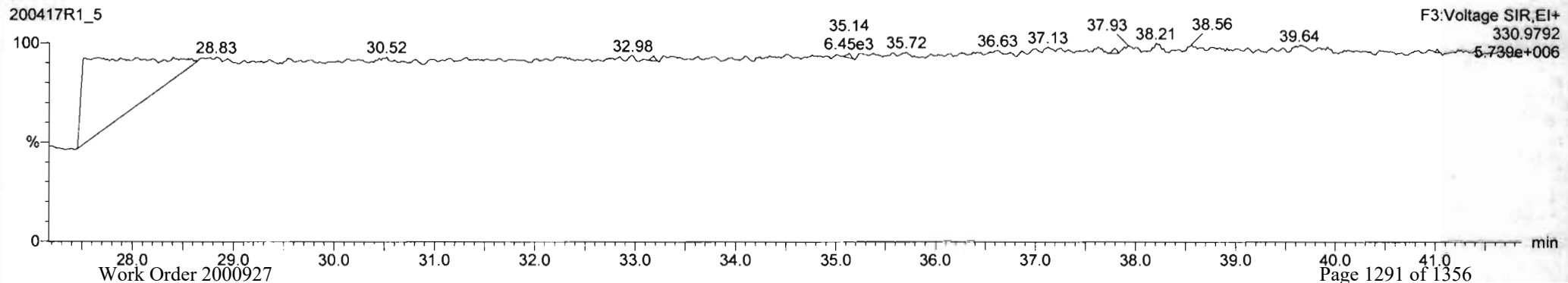


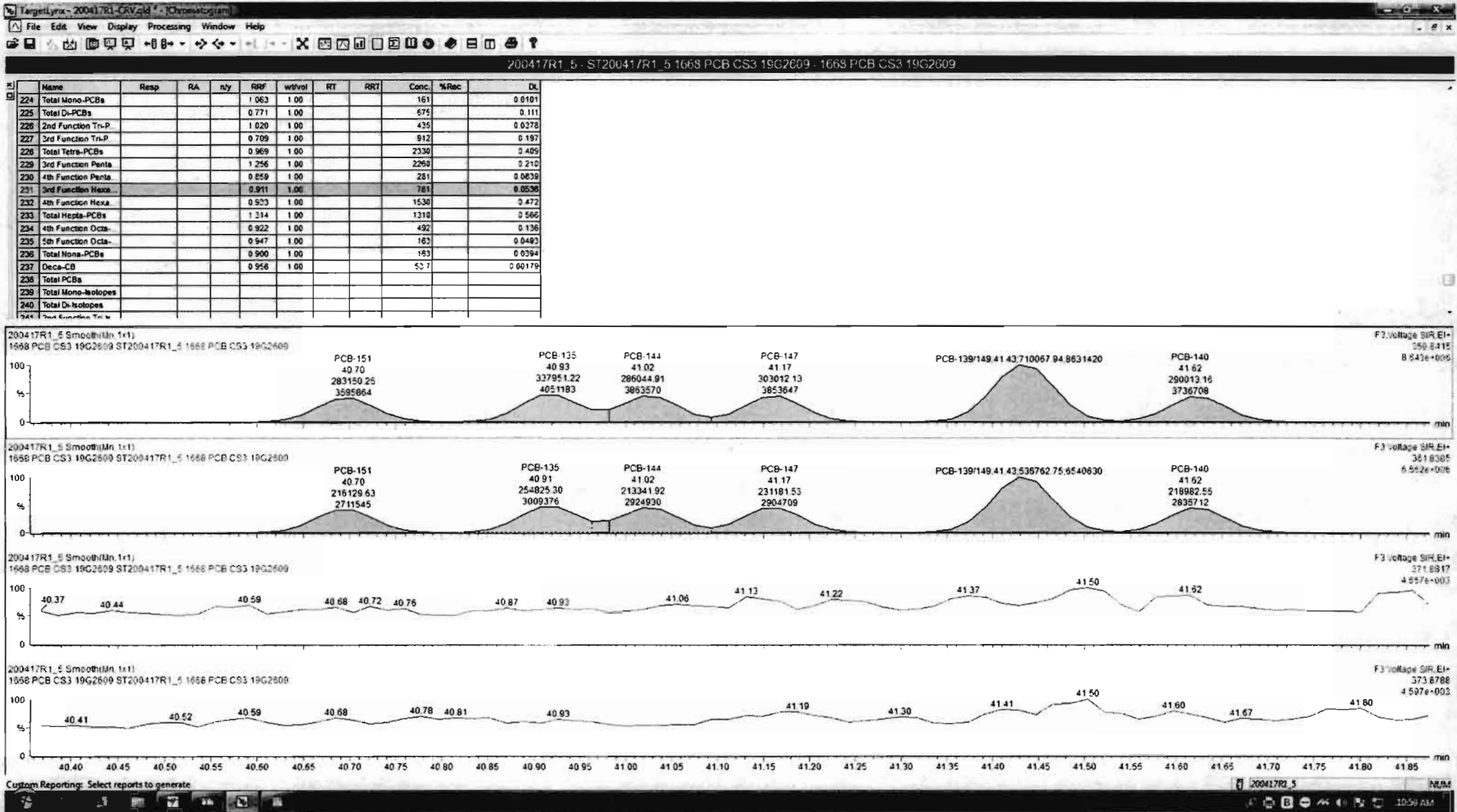
200417R1\_5



**PFK3d**

200417R1\_5





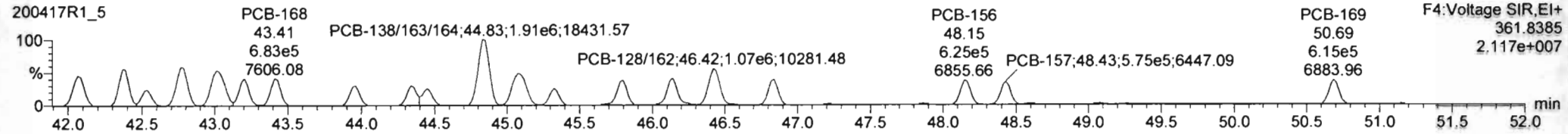
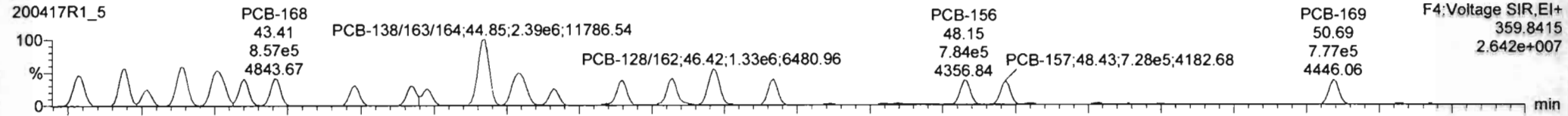
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

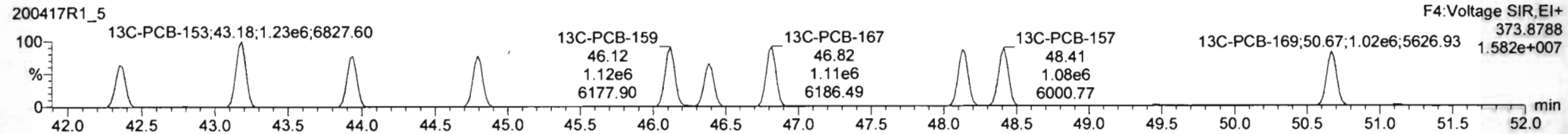
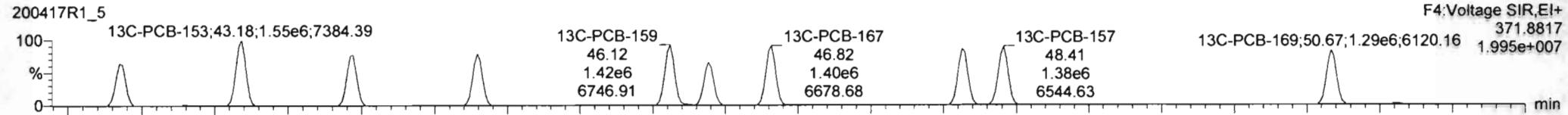
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

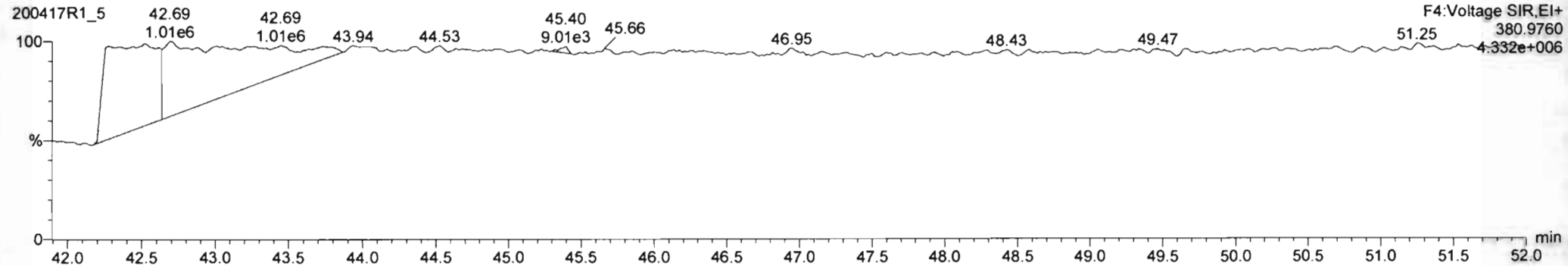
**PCB-134/143**

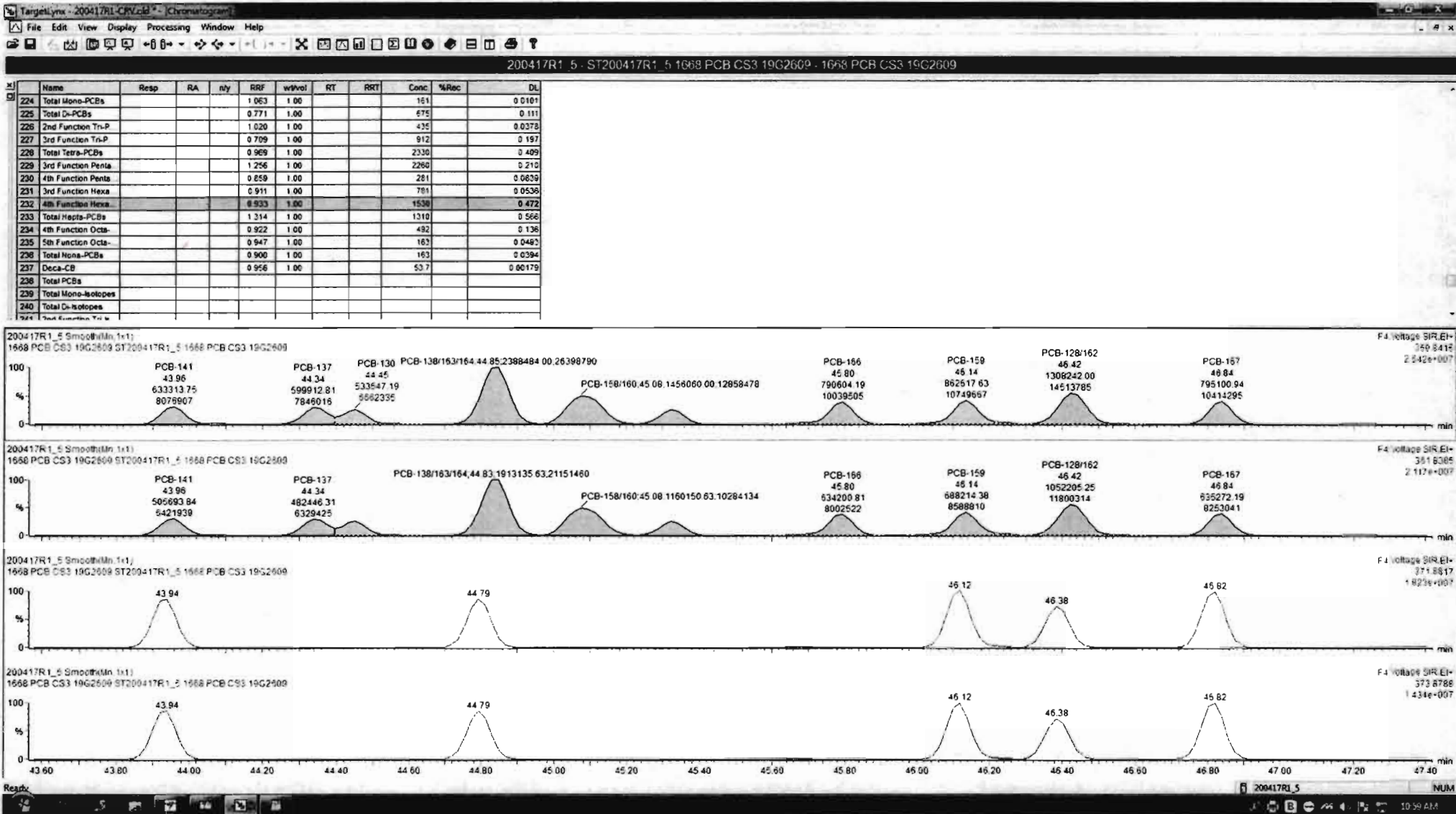


**13C-PCB-153**



**PFK4b**





Dataset: Untitled

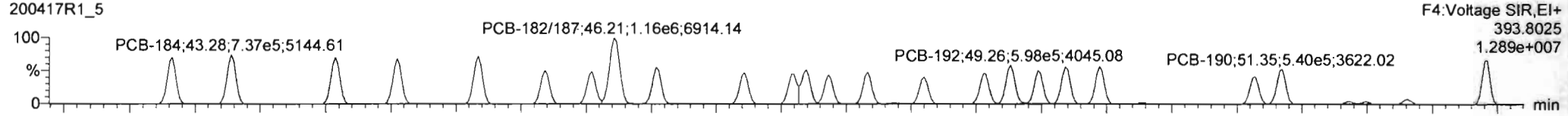
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

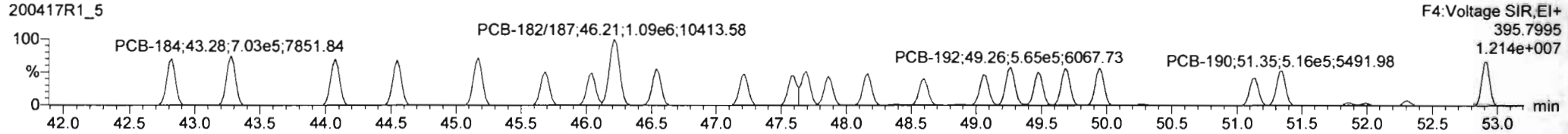
Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

**PCB-188**

200417R1\_5

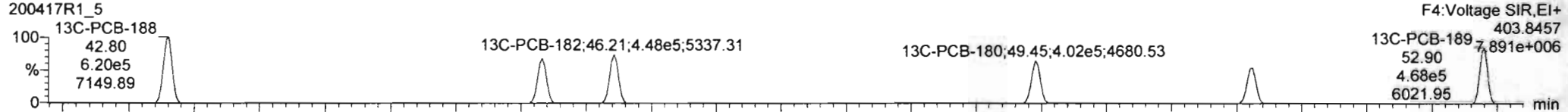


200417R1\_5

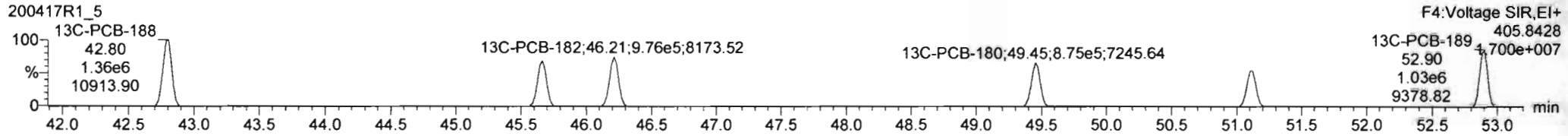


**13C-PCB-188**

200417R1\_5

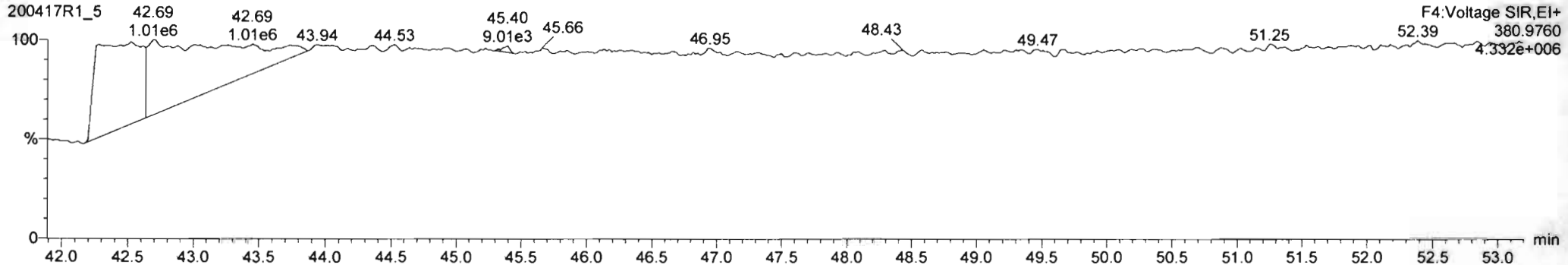


200417R1\_5



**PFK4c**

200417R1\_5



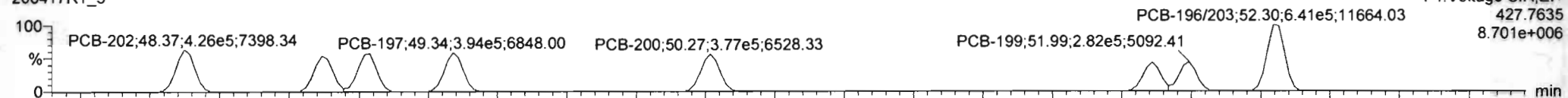
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

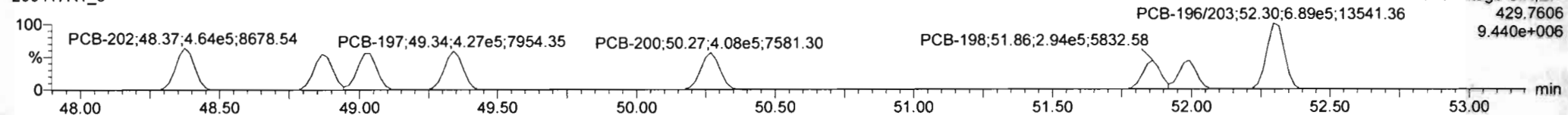
Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

**PCB-202**

200417R1\_5

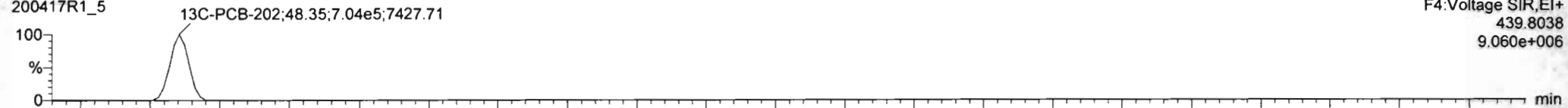


200417R1\_5

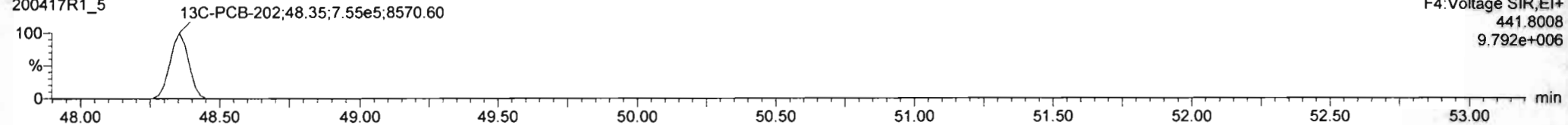


**13C-PCB-202**

200417R1\_5

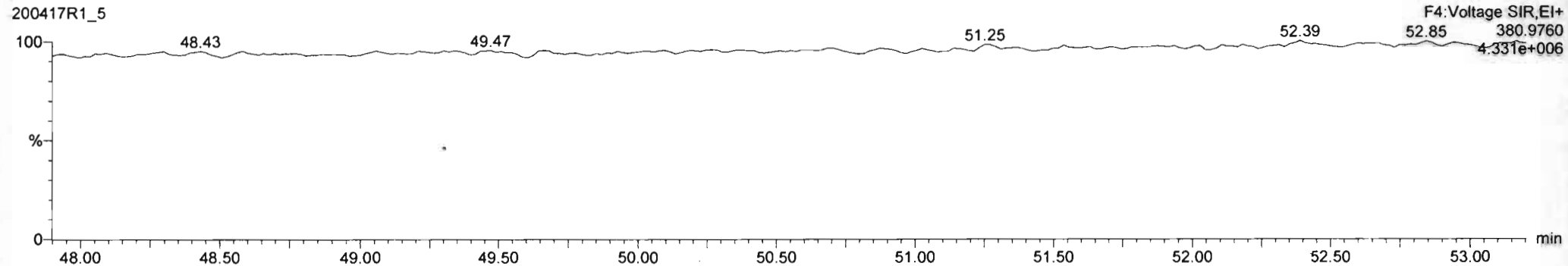


200417R1\_5



**PFK4d**

200417R1\_5





Dataset: Untitled

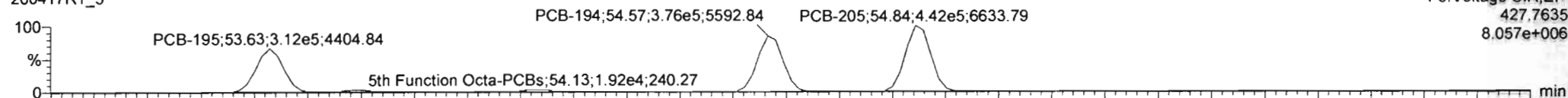
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

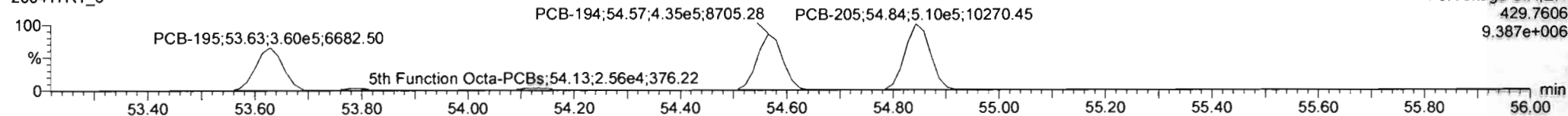
Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

**PCB-195**

200417R1\_5

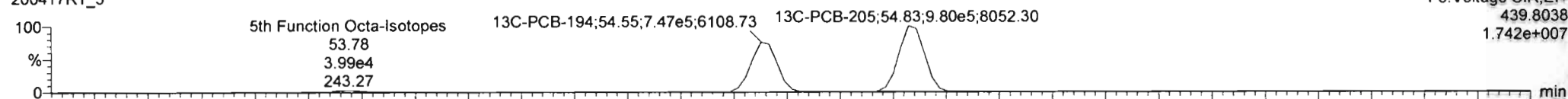


200417R1\_5

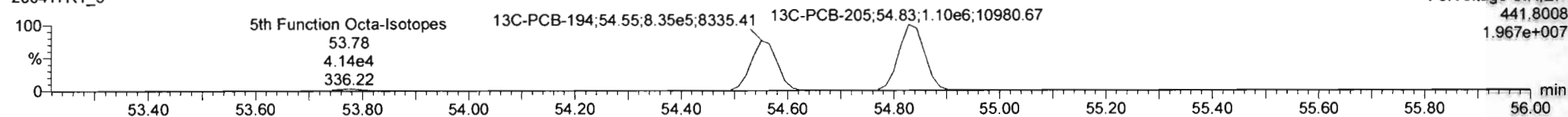


**13C-PCB-194**

200417R1\_5

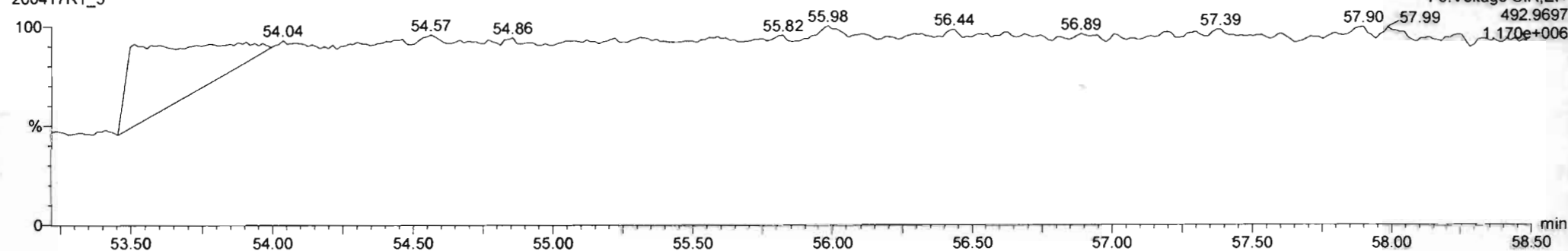


200417R1\_5



**PFK5**

200417R1\_5



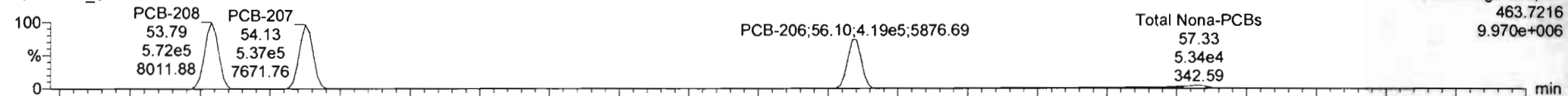
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
 Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

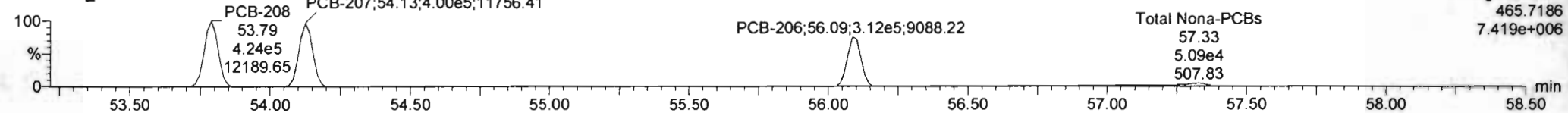
Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

**PCB-208**

200417R1\_5

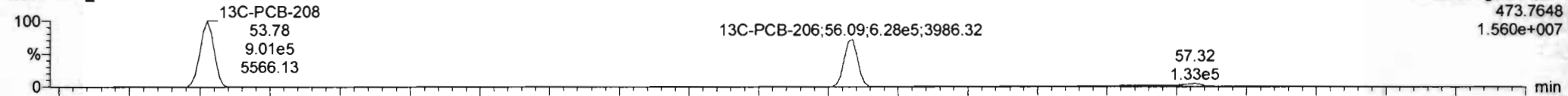


200417R1\_5

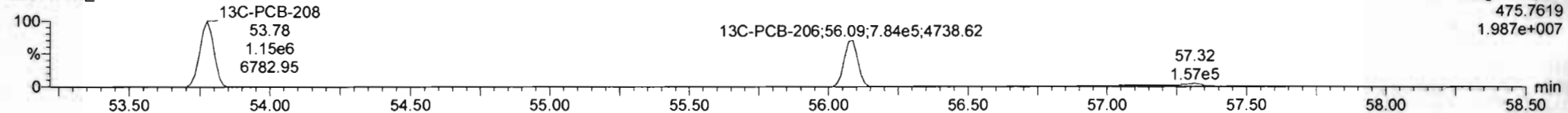


**13C-PCB-208**

200417R1\_5

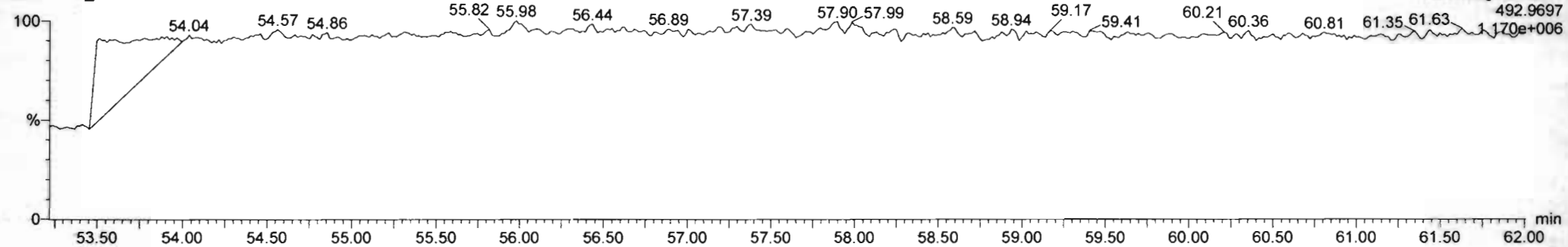


200417R1\_5



**PFK5a**

200417R1\_5



Dataset: Untitled

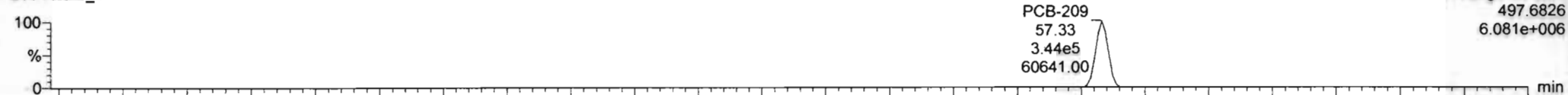
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

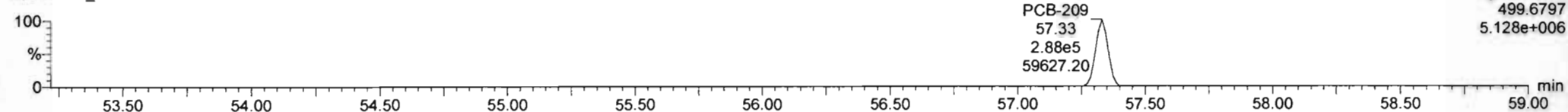
Name: 200417R1\_5, Date: 17-Apr-2020, Time: 20:14:08, ID: ST200417R1\_5 1668 PCB CS3 19G2609, Description: 1668 PCB CS3 19G2609

**PCB-209**

200417R1\_5

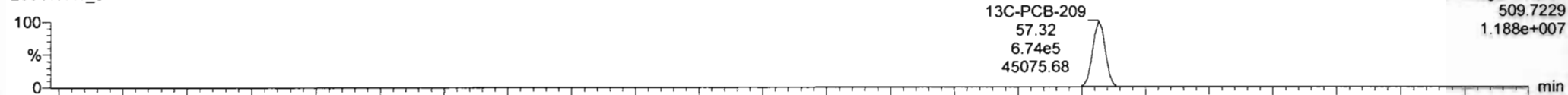


200417R1\_5

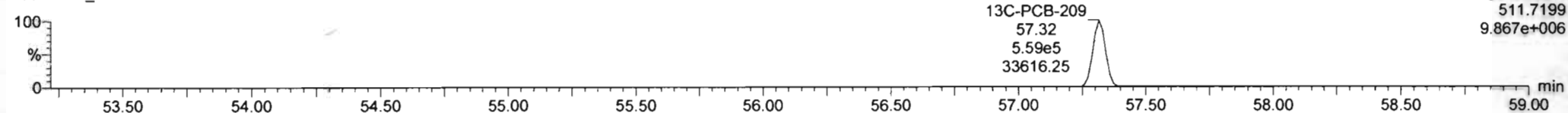


**13C-PCB-209**

200417R1\_5

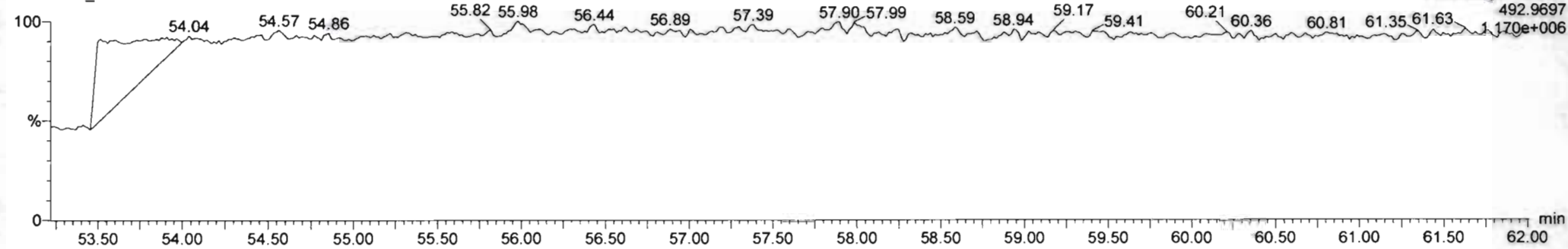


200417R1\_5



**PFK5b**

200417R1\_5



Dataset: Untitled

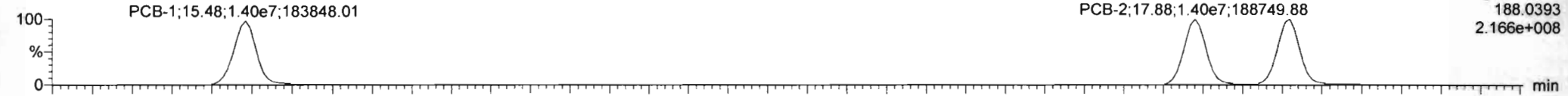
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

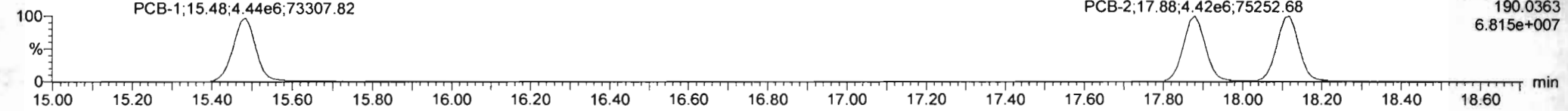
Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

**PCB-1**

200417R1\_6

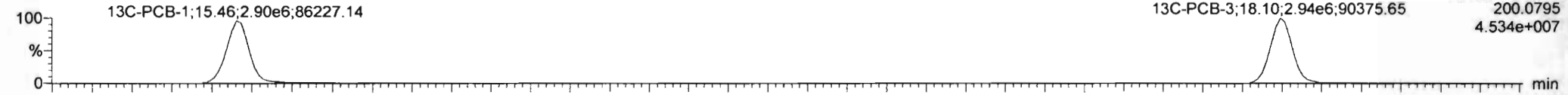


200417R1\_6

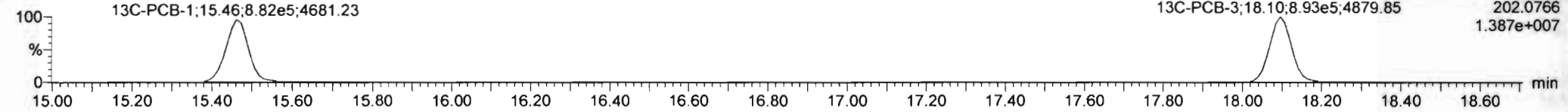


**13C-PCB-1**

200417R1\_6

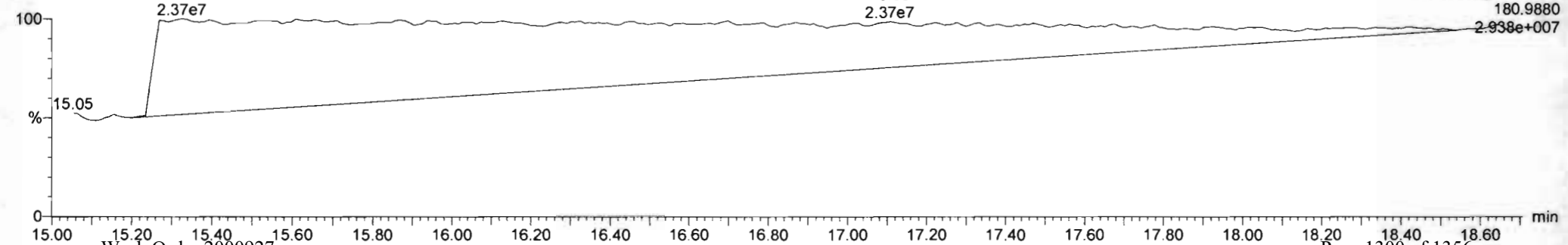


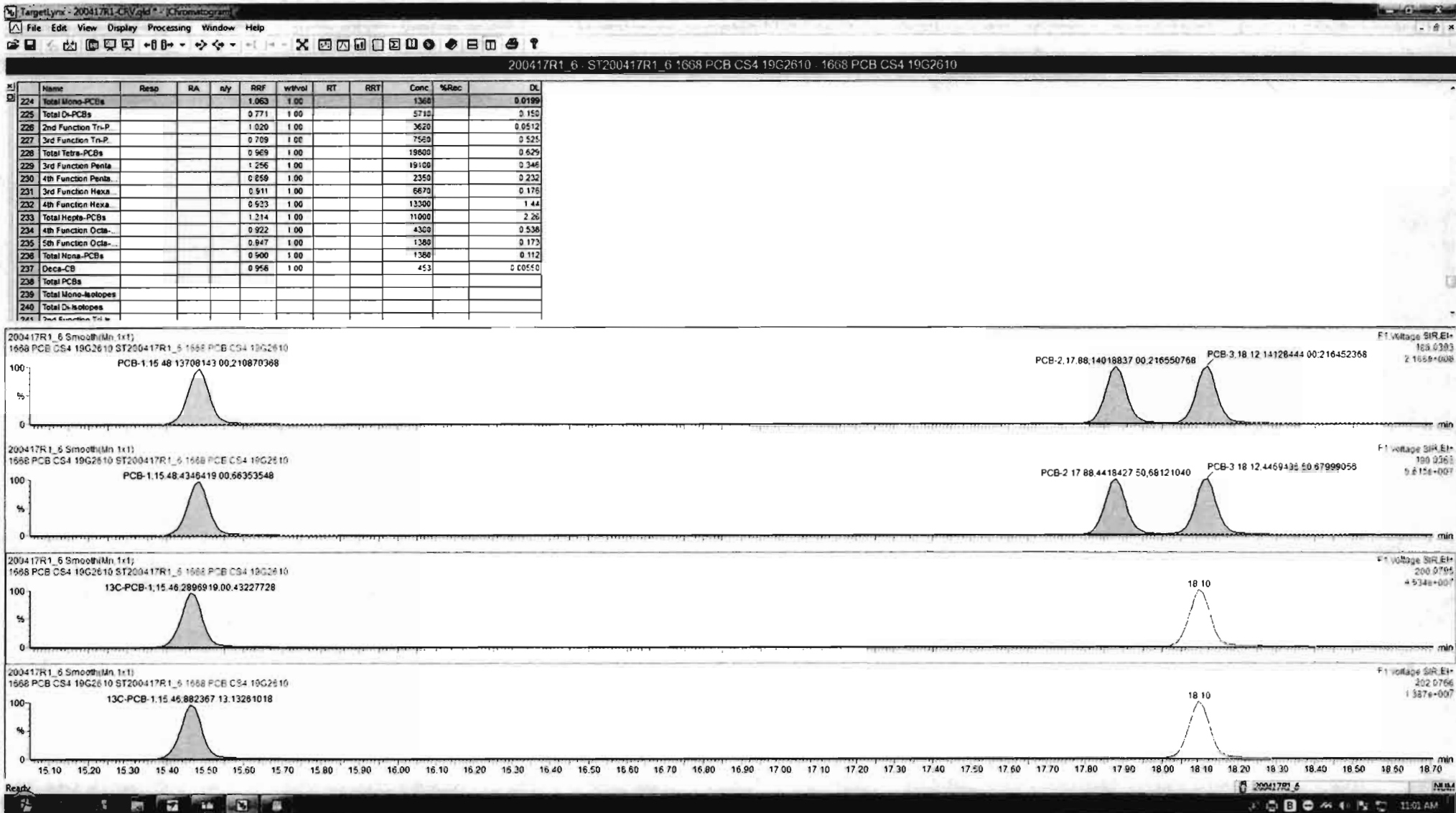
200417R1\_6



**PFK1**

200417R1\_6





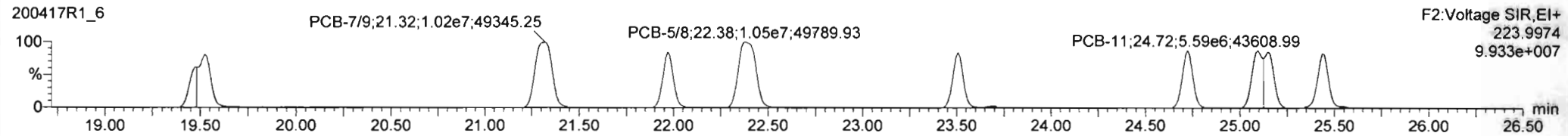
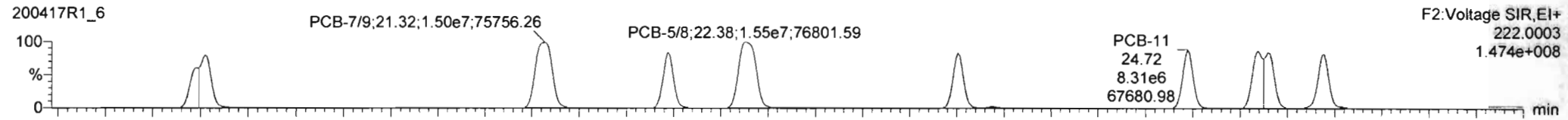
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

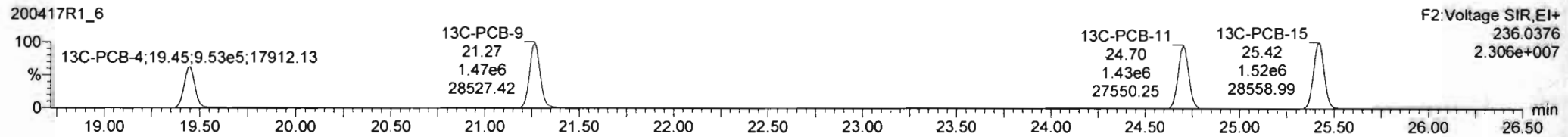
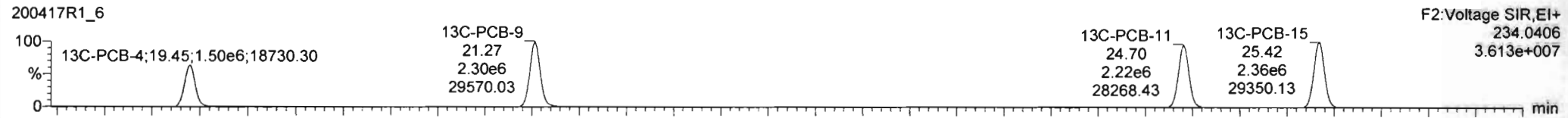
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

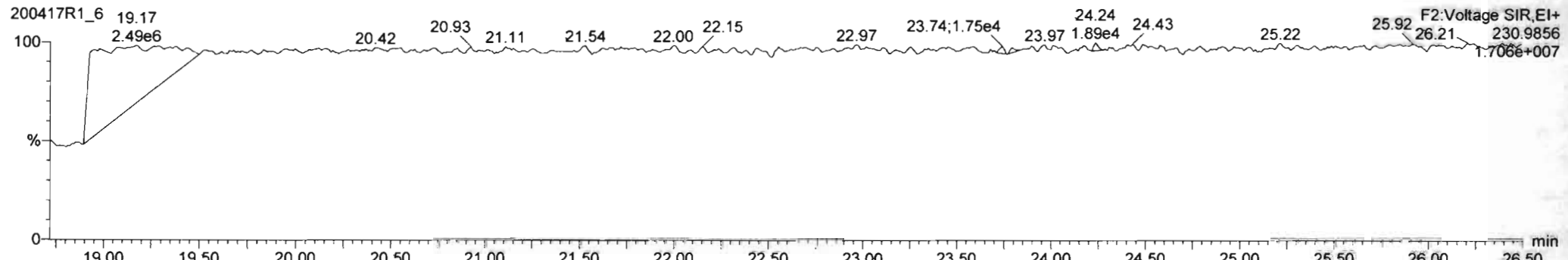
**PCB-4/10**

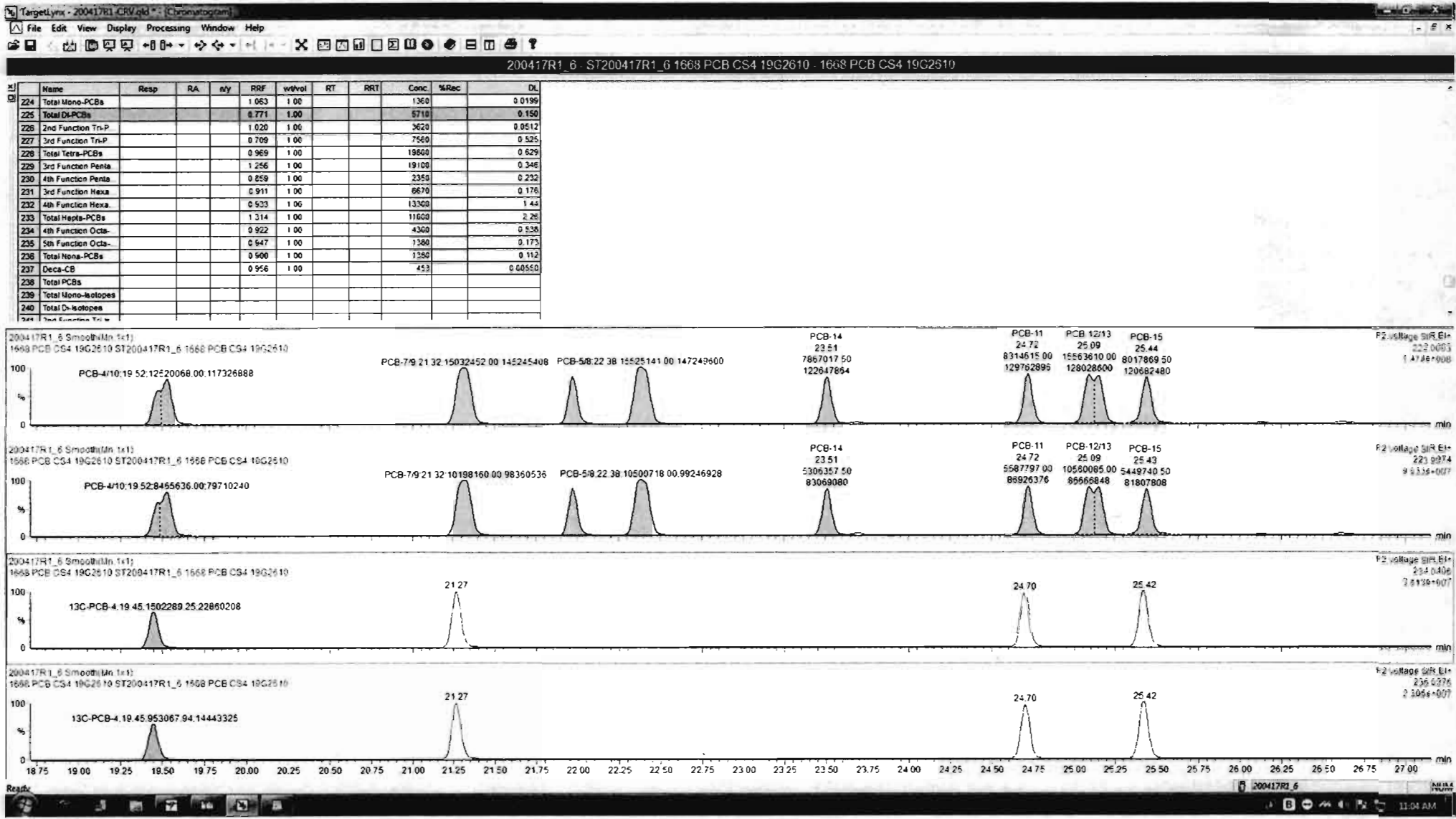


**13C-PCB-4**



**PFK2a**



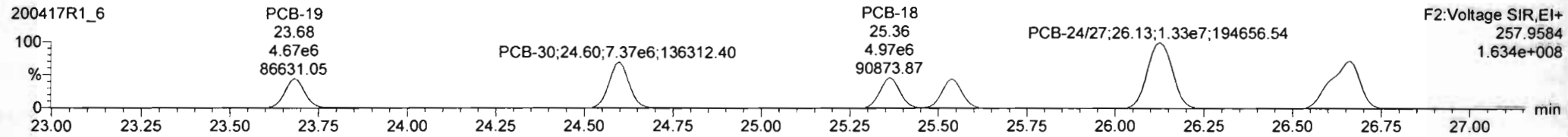
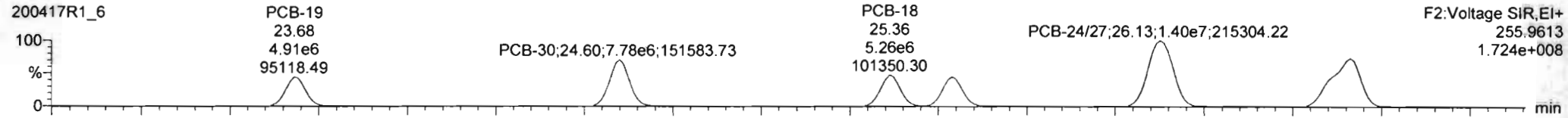


Dataset: Untitled

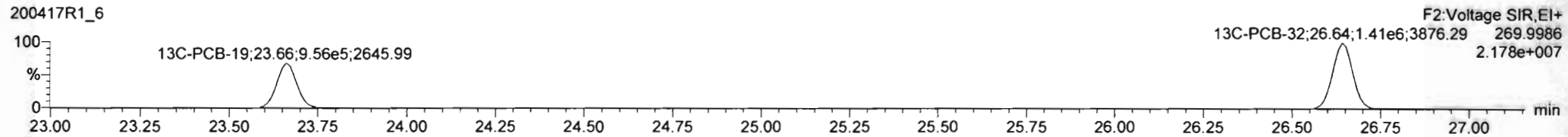
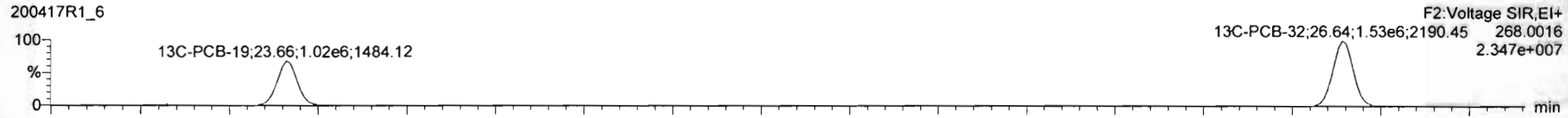
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

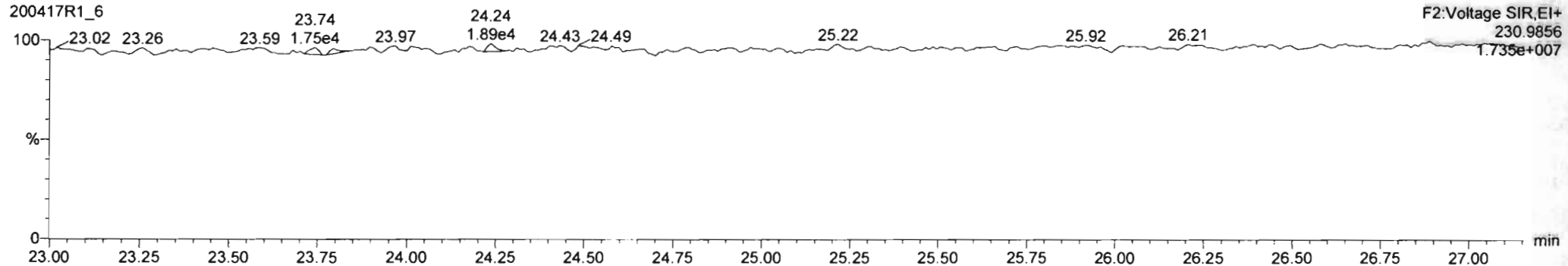
**PCB-19**



**13C-PCB-19**



**PFK2b**





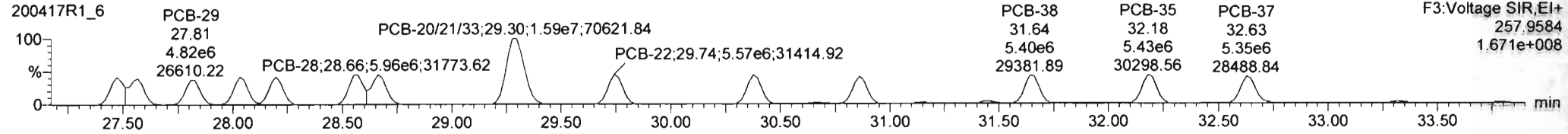
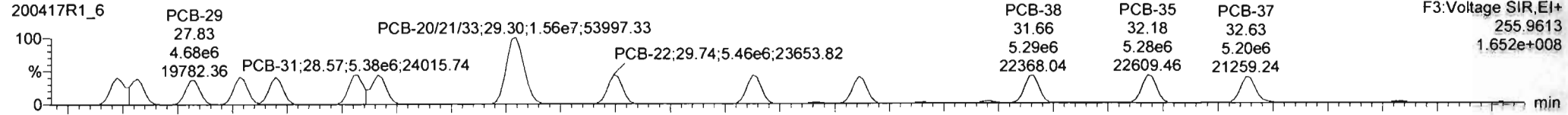
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Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

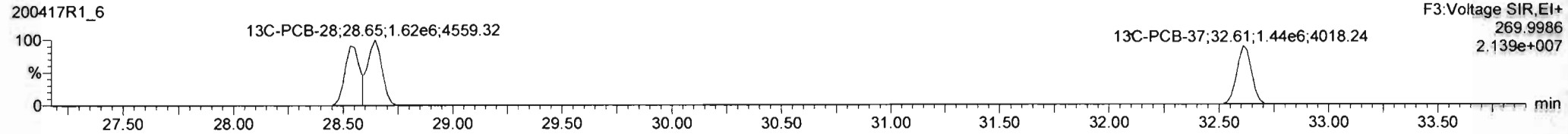
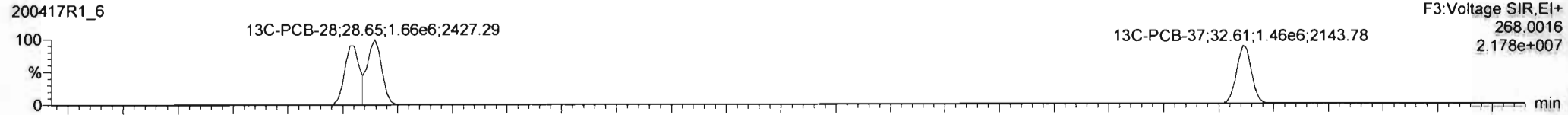
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

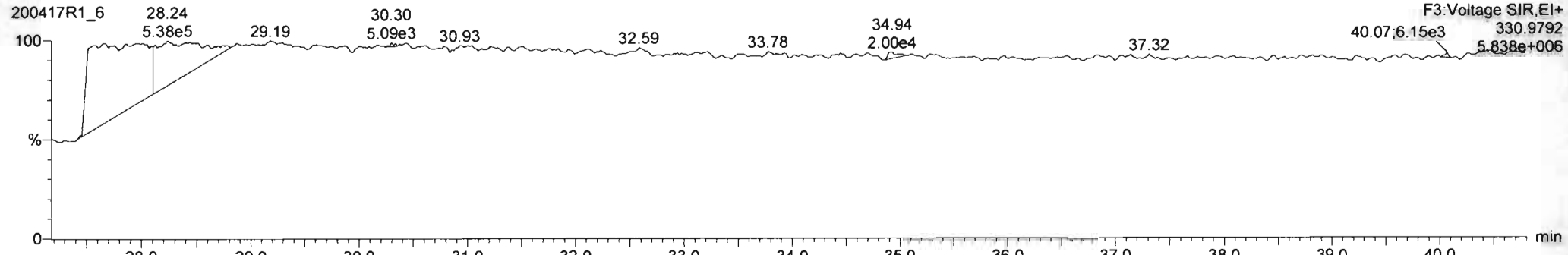
**PCB-34**

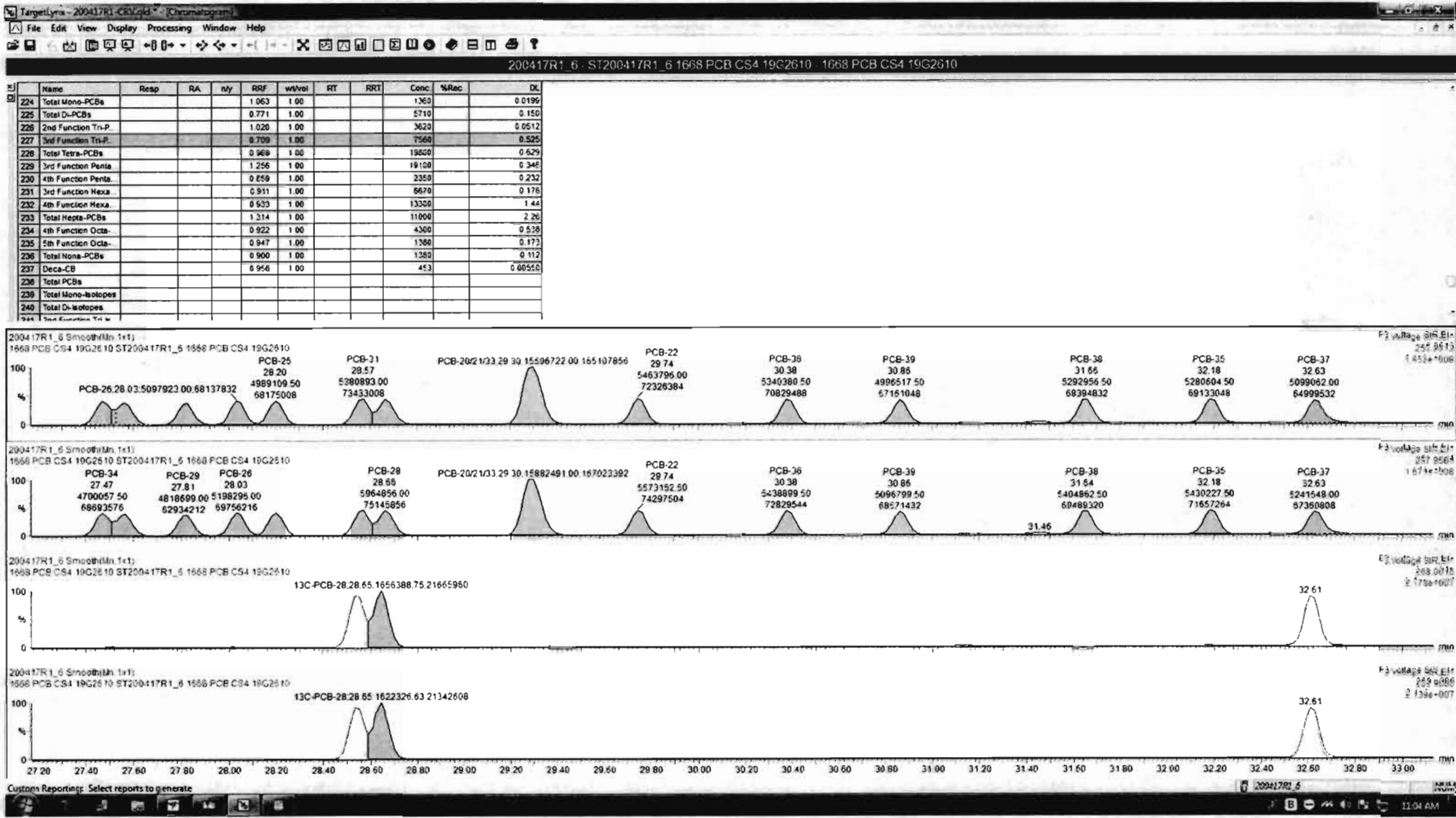


**13C-PCB-28**



**PFK3a**



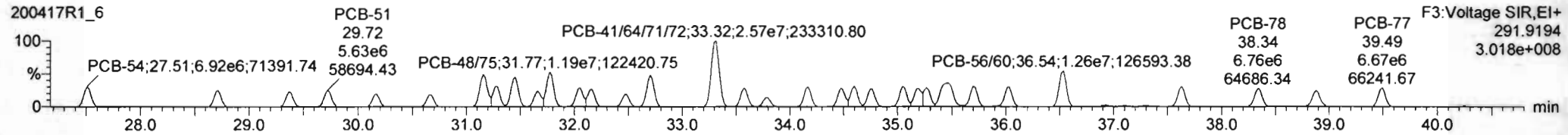
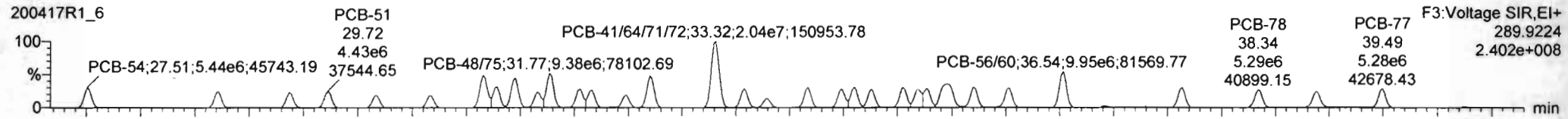


Dataset: Untitled

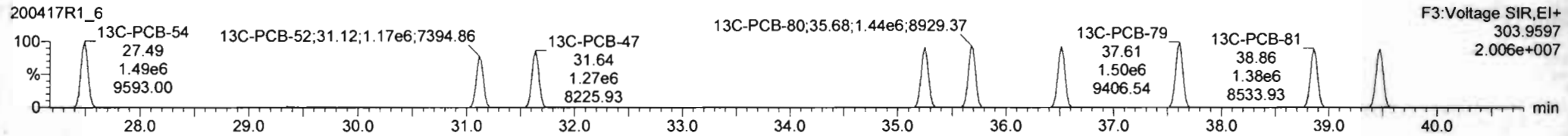
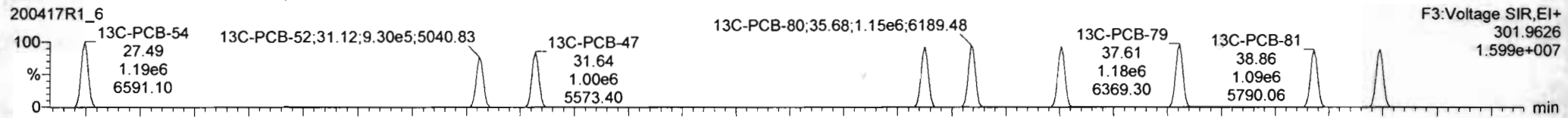
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

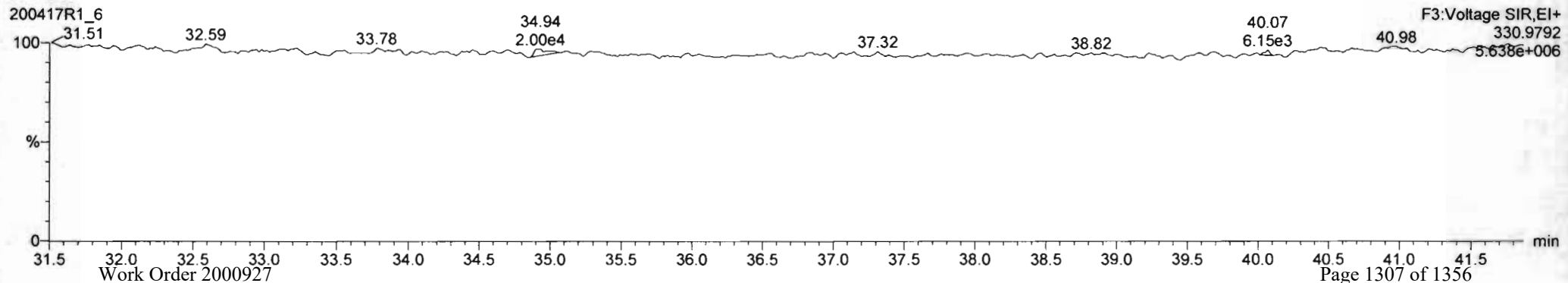
**PCB-54**



**13C-PCB-54**



**PFK3b**

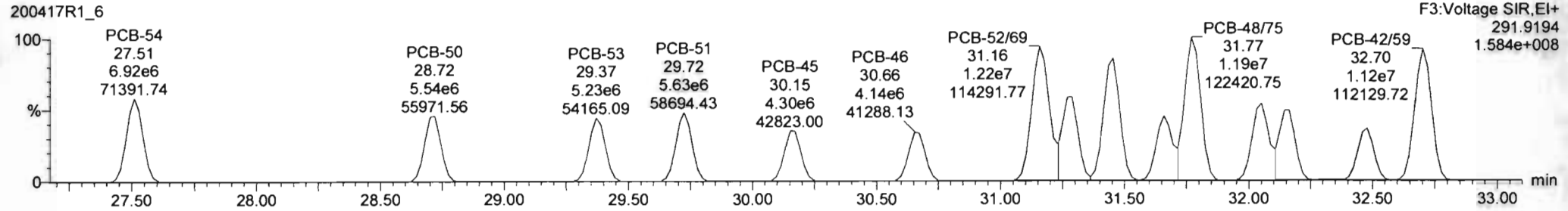
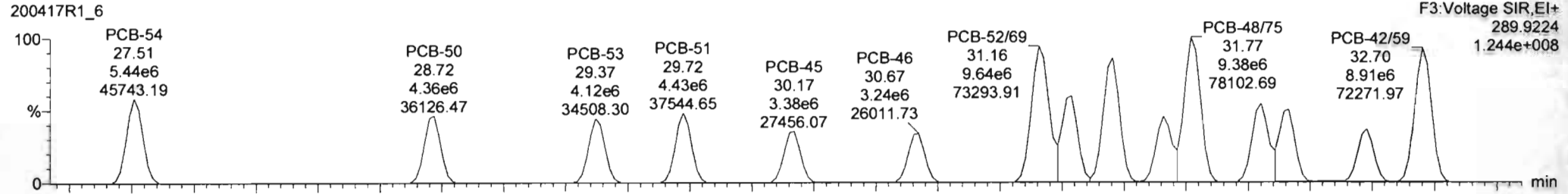


Dataset: Untitled

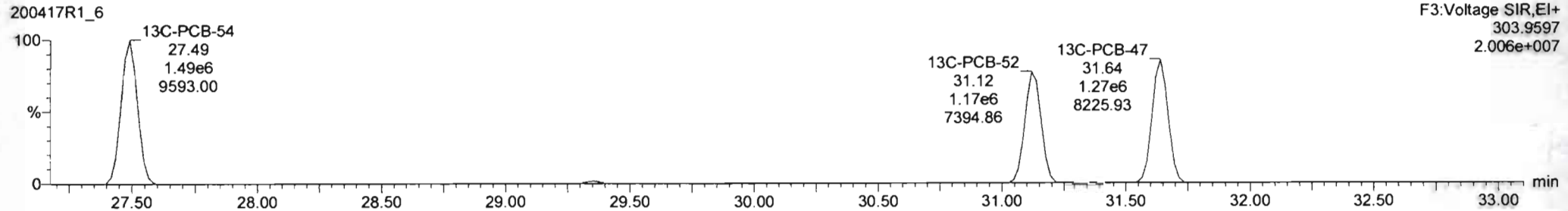
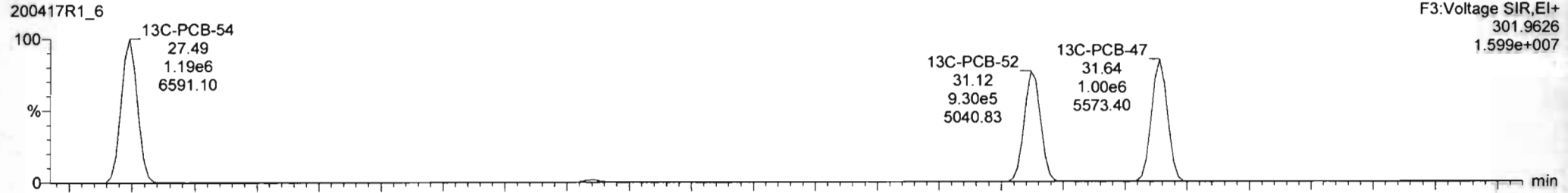
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

PCB-50



13C-PCB-52



Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

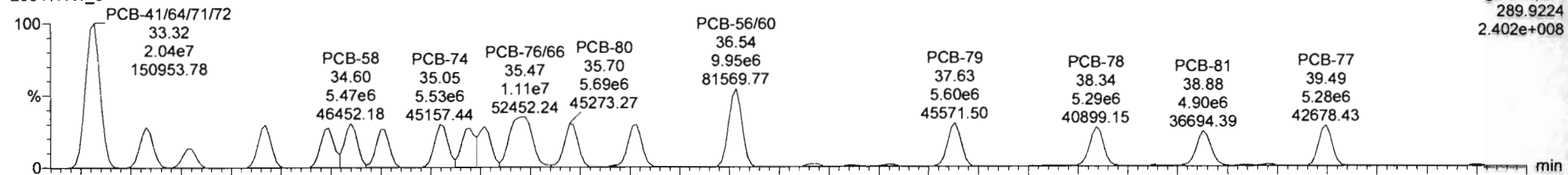
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

PCB-68

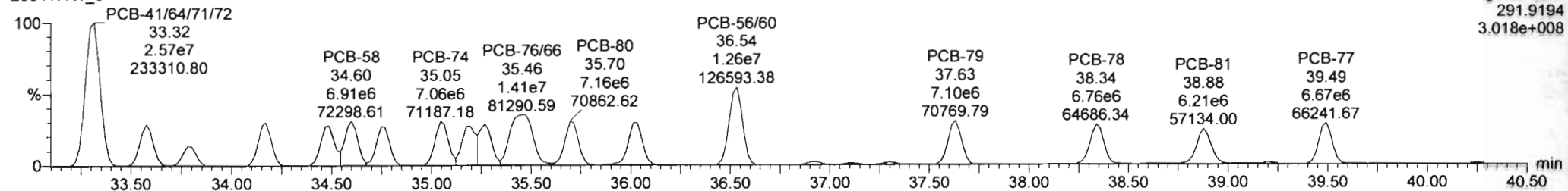
200417R1\_6

F3:Voltage SIR,EI+  
289.9224  
2.402e+008



200417R1\_6

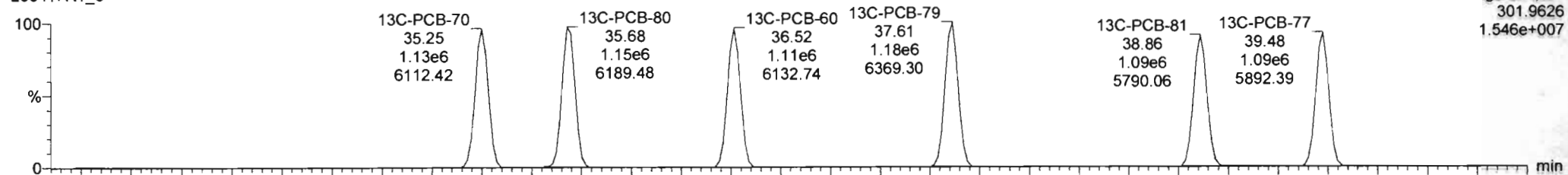
F3:Voltage SIR,EI+  
291.9194  
3.018e+008



13C-PCB-60

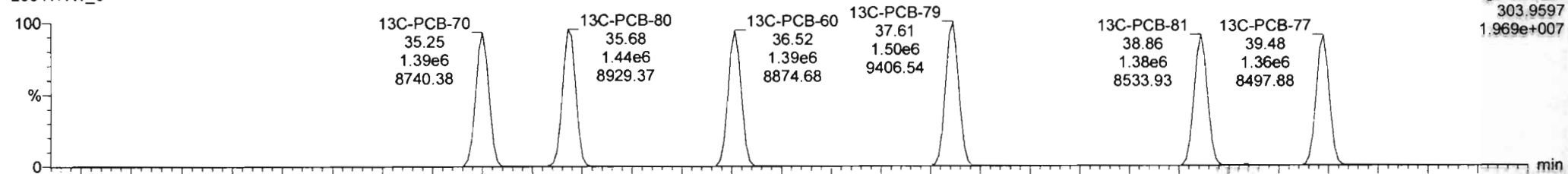
200417R1\_6

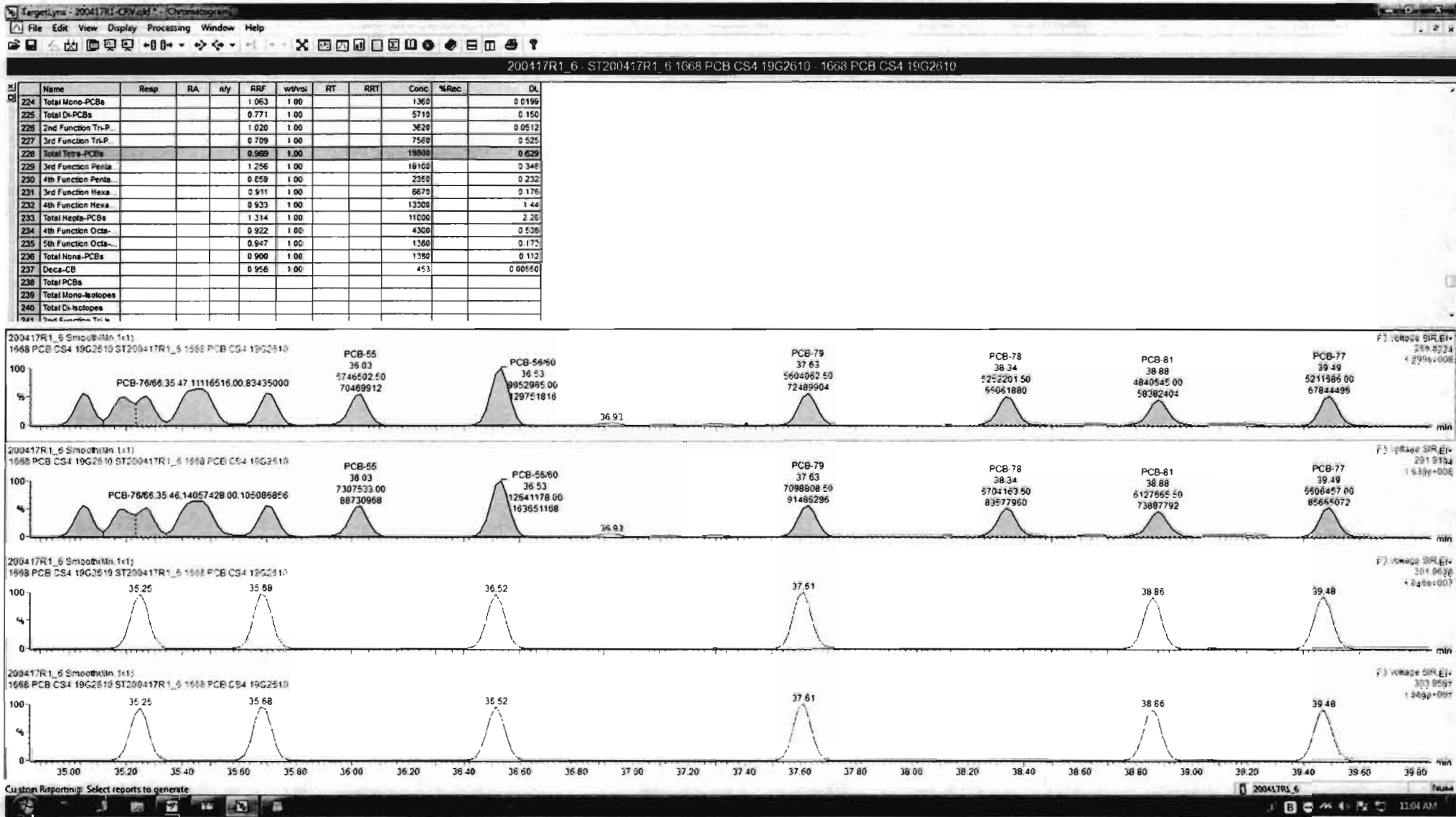
F3:Voltage SIR,EI+  
301.9626  
1.546e+007



200417R1\_6

F3:Voltage SIR,EI+  
303.9597  
1.969e+007



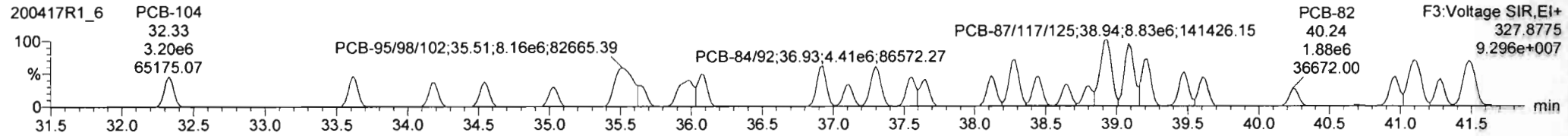
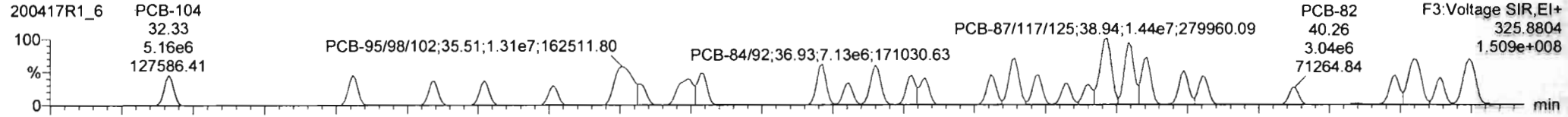


Dataset: Untitled

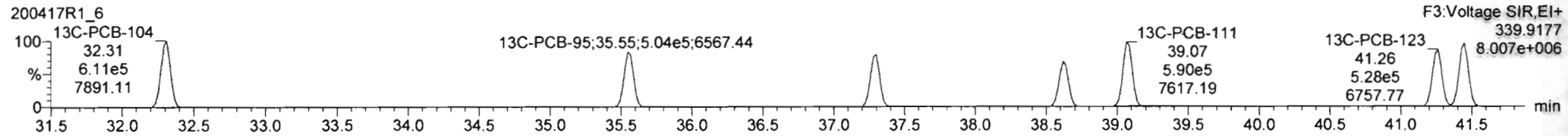
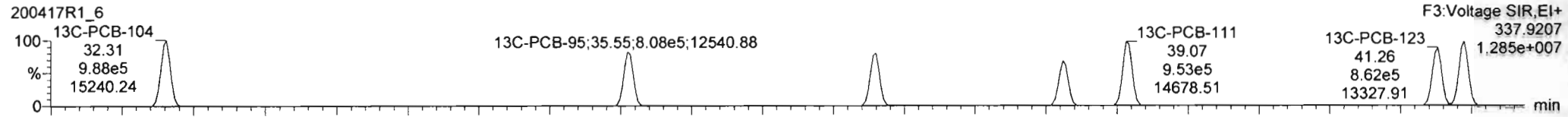
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

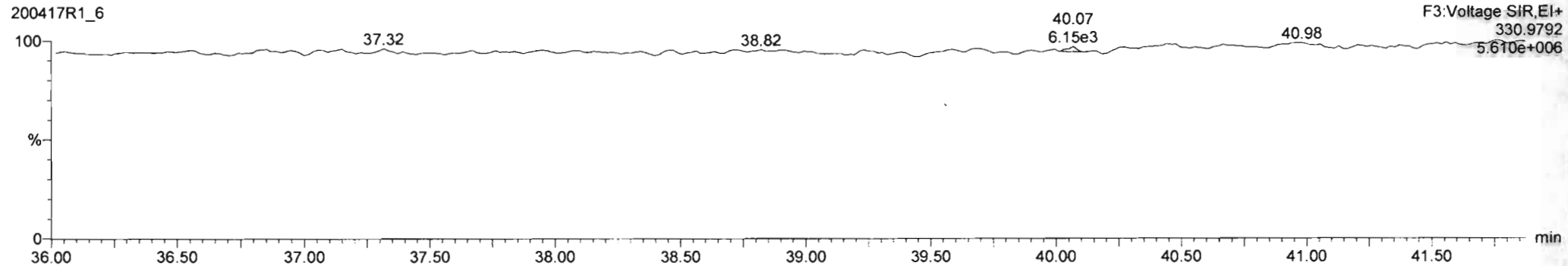
**PCB-104**



**13C-PCB-104**



**PFK3c**



Dataset: Untitled

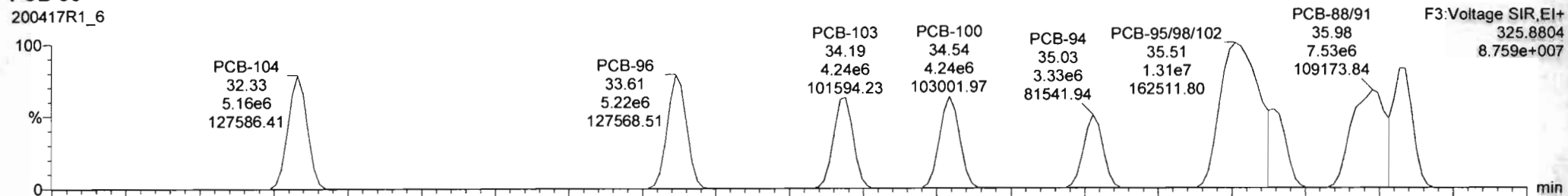
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

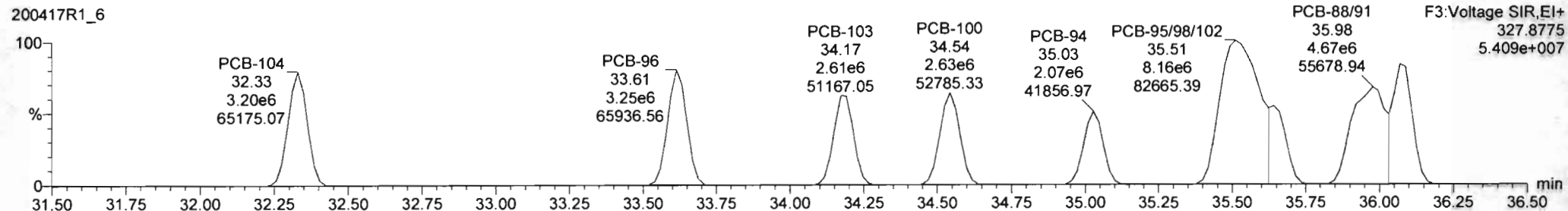
Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

PCB-96

200417R1\_6

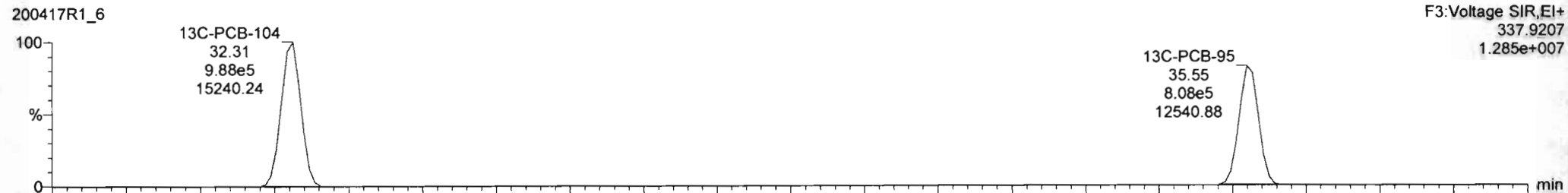


200417R1\_6

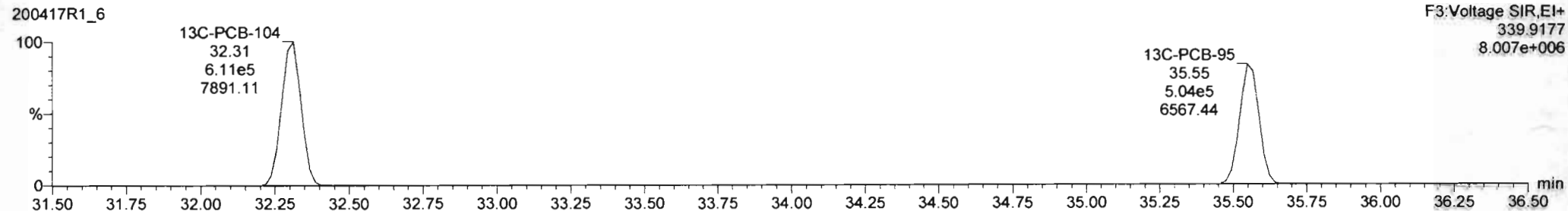


13C-PCB-95

200417R1\_6



200417R1\_6





Dataset: Untitled

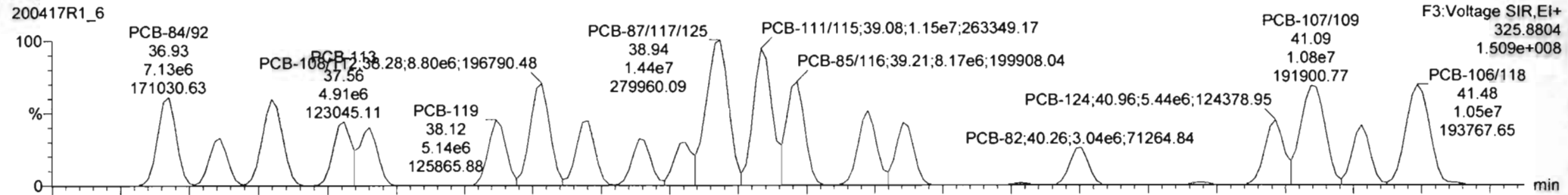
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Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

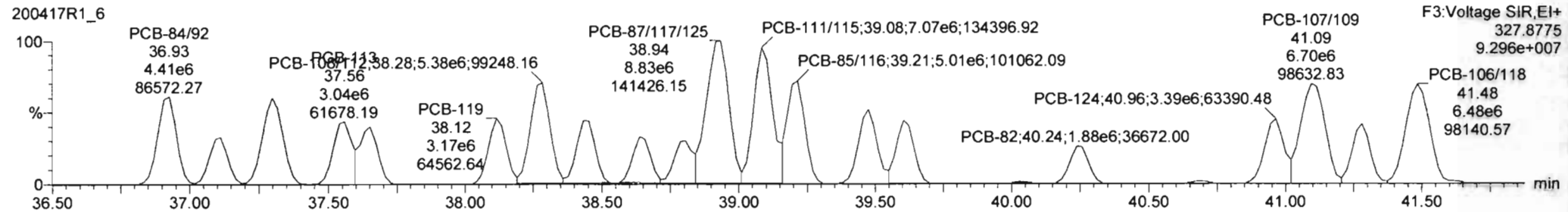
Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

PCB-119

200417R1\_6

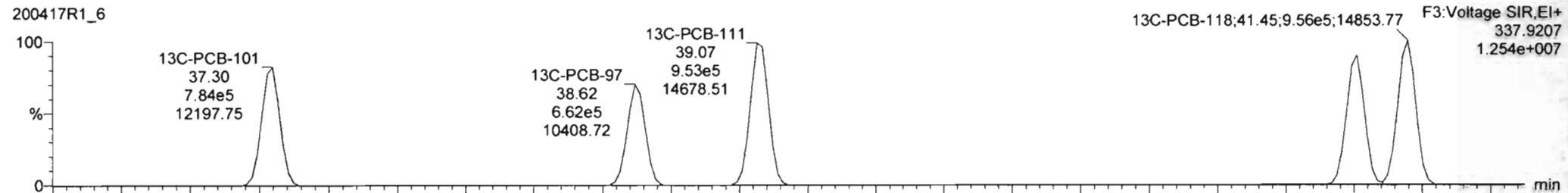


200417R1\_6

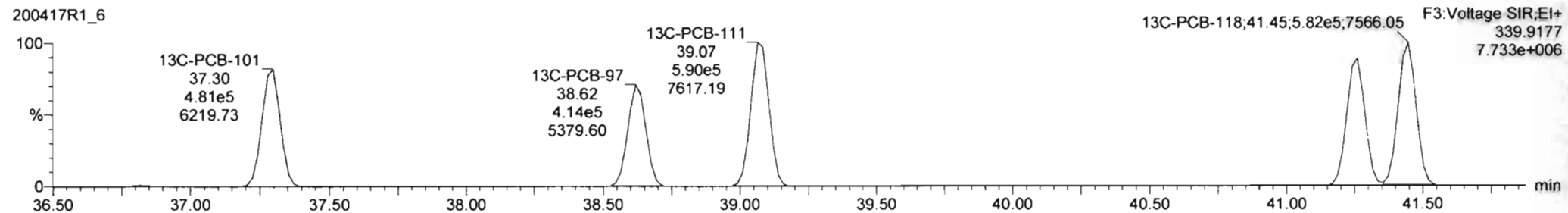


13C-PCB-111

200417R1\_6

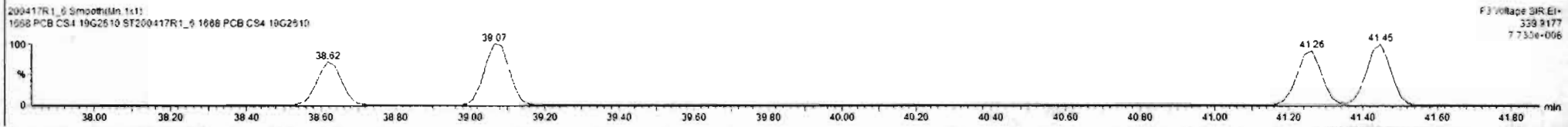
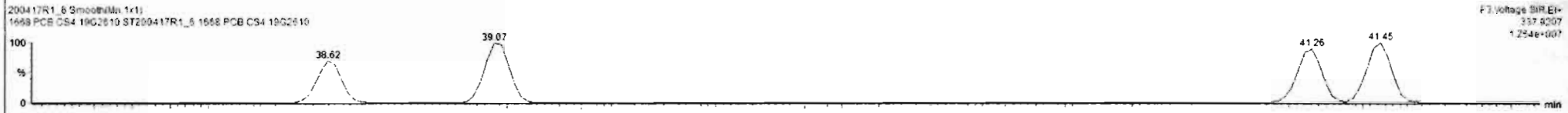
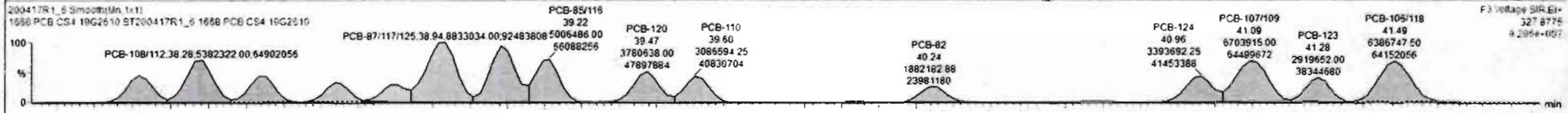
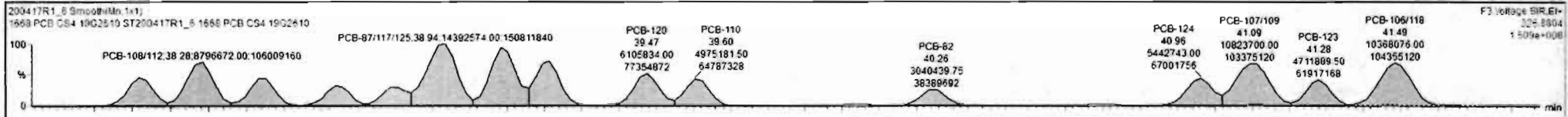


200417R1\_6



200417R1\_6 - ST200417R1\_6 1668 PCB CS4 19G2610 - 1668 PCB CS4 19G2610

Name	Resp	RA	nly	RRF	wVvol	RT	RRT	Conc	%Rec	DL
224 Total Mono-PCBs				1.063	1.00			1360		0.0199
225 Total Di-PCBs				0.771	1.00			5710		0.150
226 2nd Function Tri-P				1.020	1.00			3620		0.0512
227 3rd Function Tri-P				0.709	1.00			7560		0.525
228 Total Tetra-PCBs				0.969	1.00			19600		0.629
229 3rd Function Penta				1.256	1.00			19100		0.346
230 4th Function Penta				0.859	1.00			2350		0.232
231 3rd Function Hexa				0.911	1.00			6670		0.176
232 4th Function Hexa				0.933	1.00			13300		1.44
233 Total Hepta-PCBs				1.314	1.00			11000		2.26
234 4th Function Octa-				0.922	1.00			4300		0.538
235 5th Function Octa-				0.947	1.00			1360		0.173
236 Total Nona-PCBs				0.900	1.00			1360		0.112
237 Deca-CB				0.958	1.00			453		0.00558
238 Total PCBs										
239 Total Mono-Isotopes										
240 Total Di-Isotopes										
241 2nd Function Tri-P										



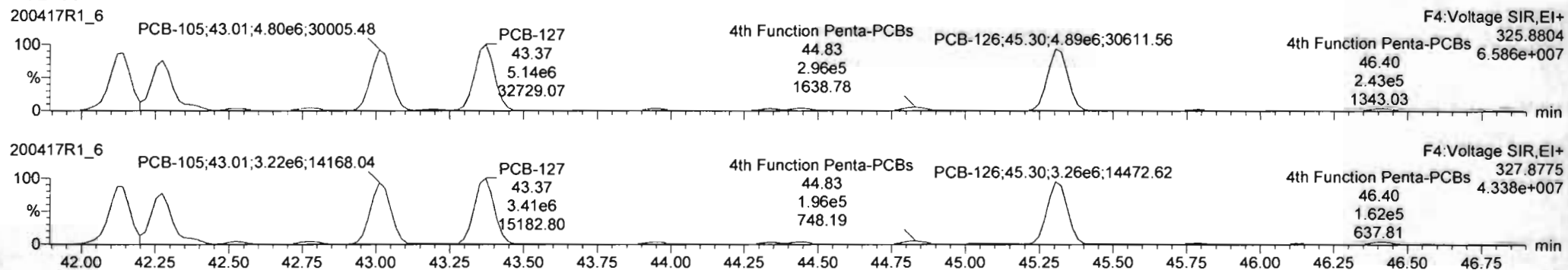
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

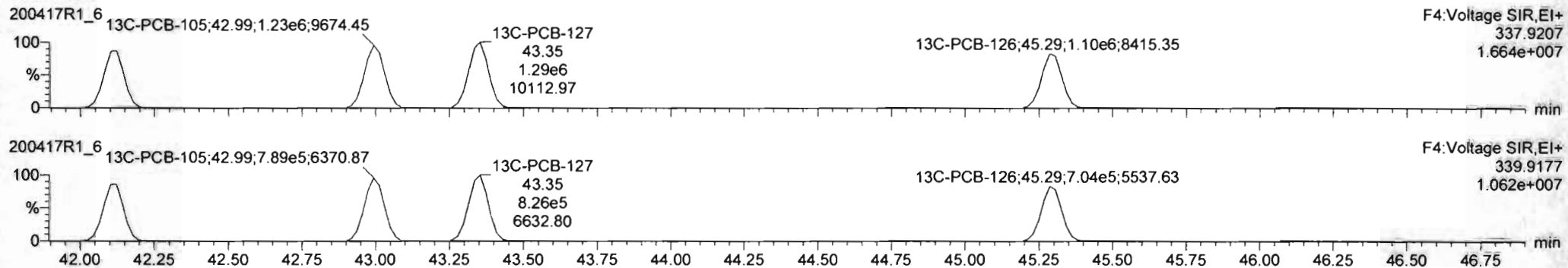
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

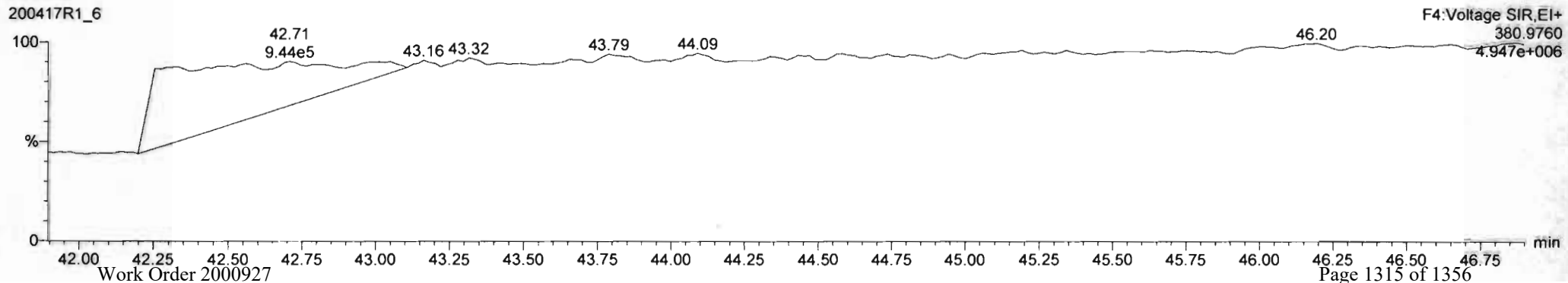
### PCB-114

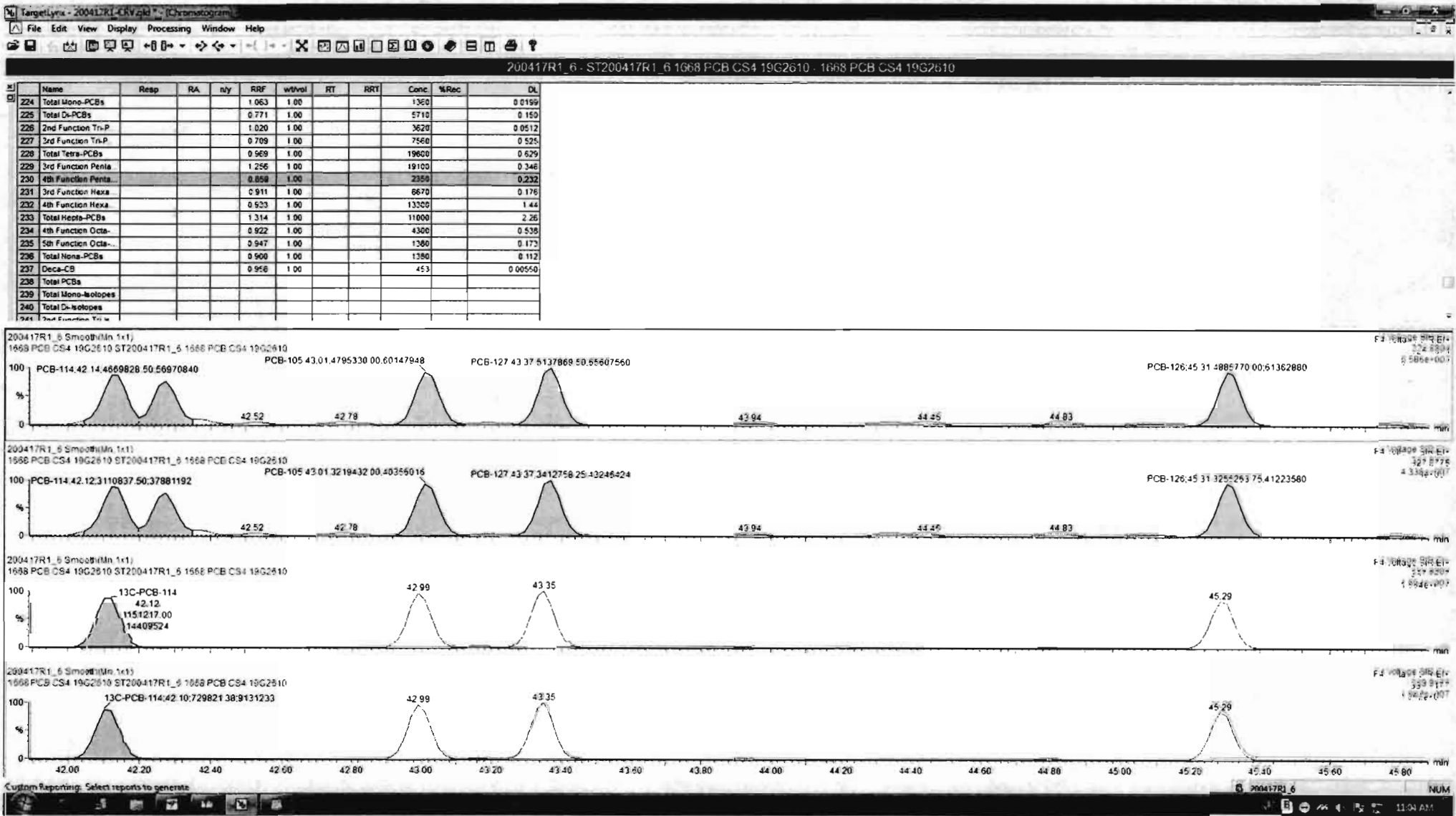


### 13C-PCB-114



### PFK4a





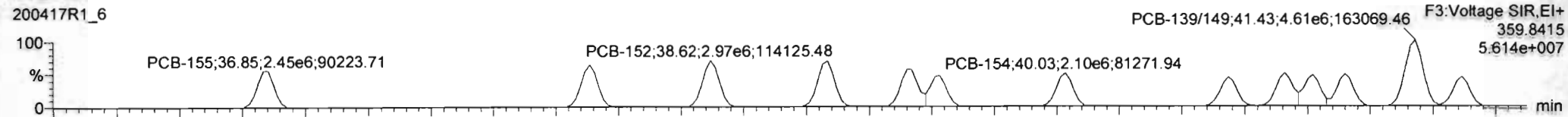
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

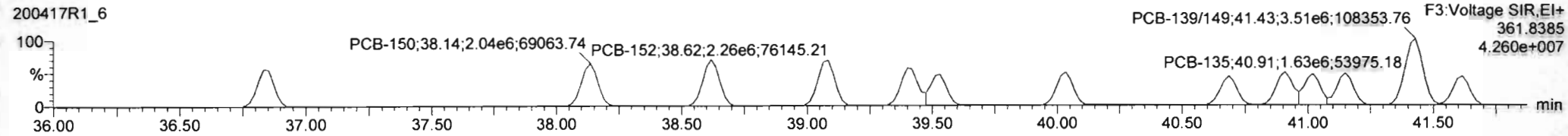
Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

**PCB-155**

200417R1\_6

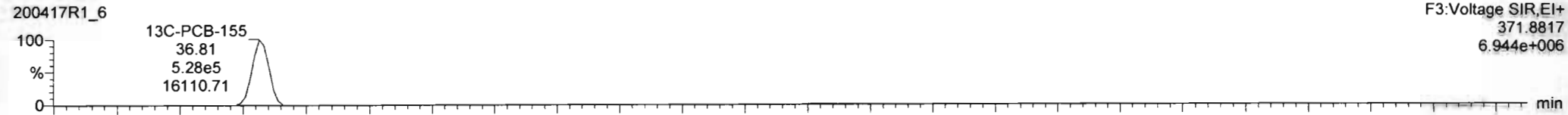


200417R1\_6

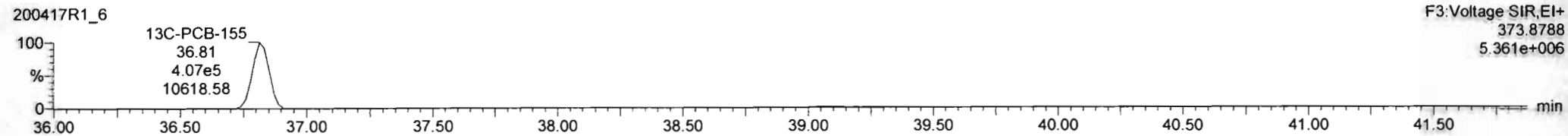


**13C-PCB-155**

200417R1\_6

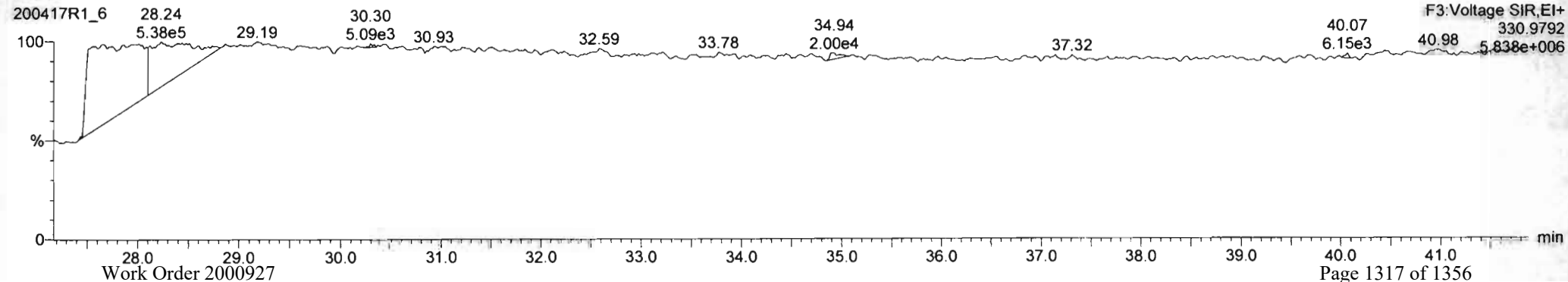


200417R1\_6



**PFK3d**

200417R1\_6



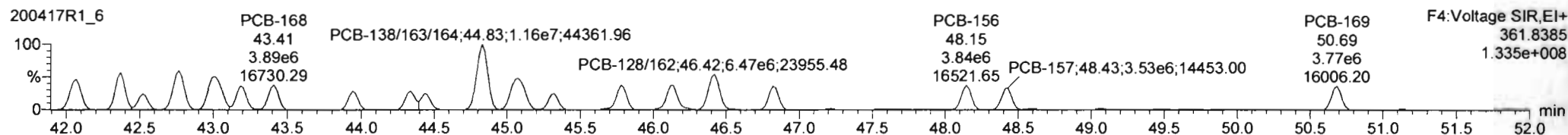
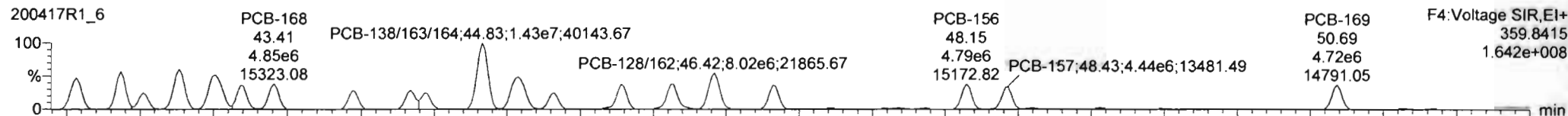
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

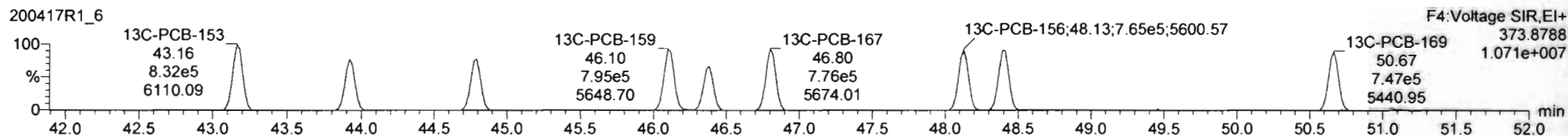
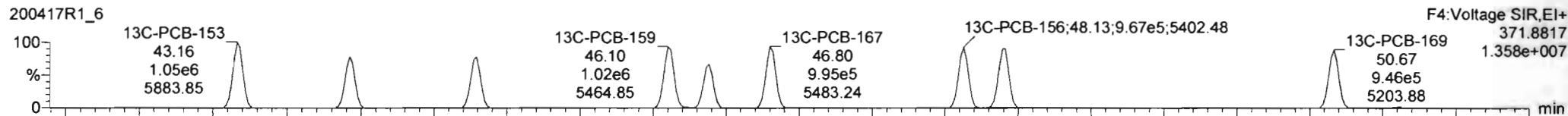
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

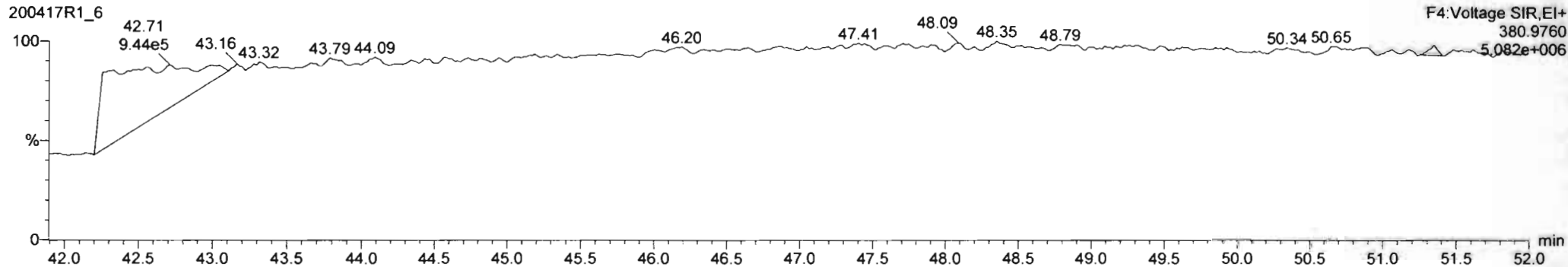
### PCB-134/143

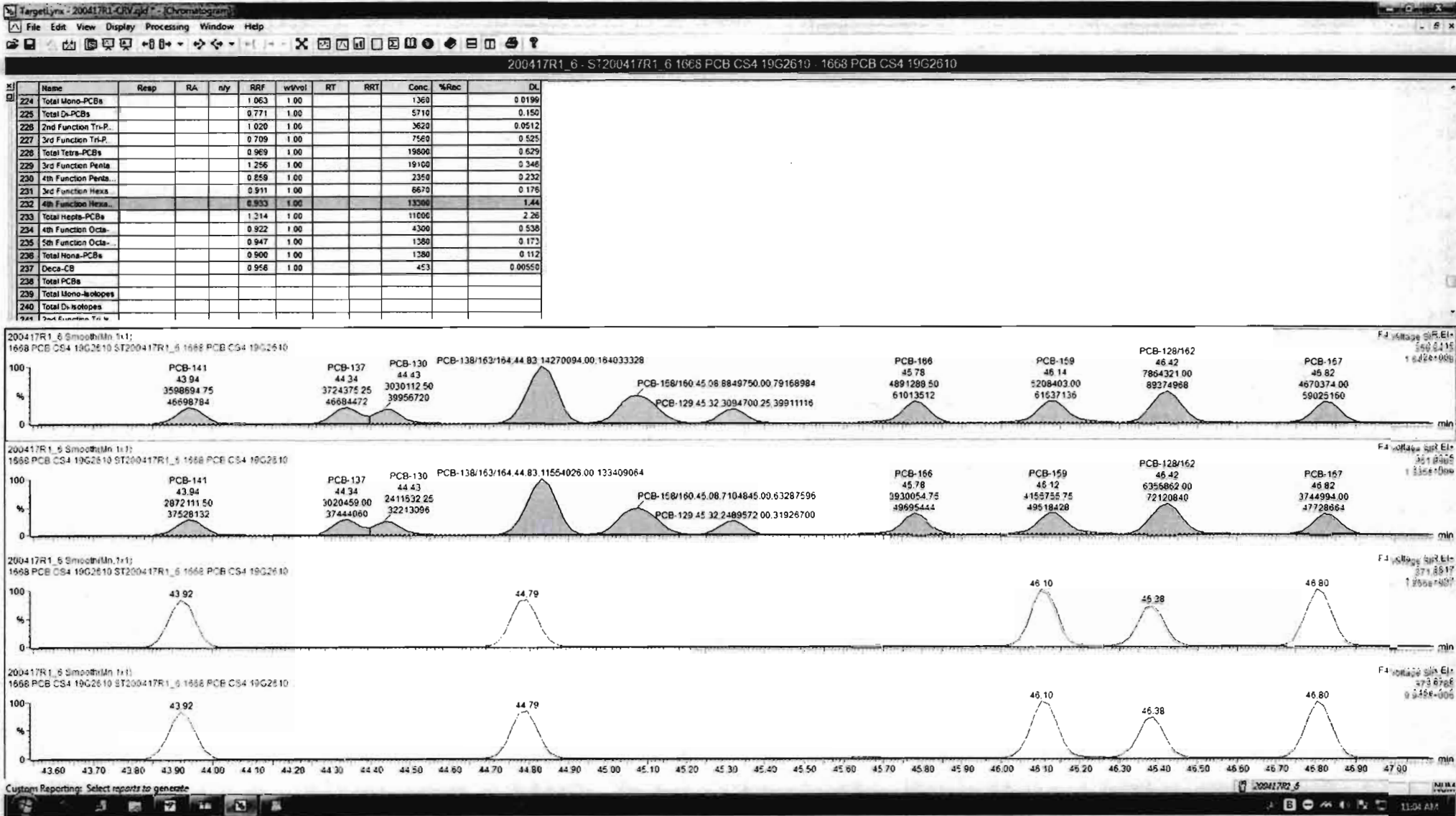


### 13C-PCB-153



### PFK4b





Dataset: Untitled

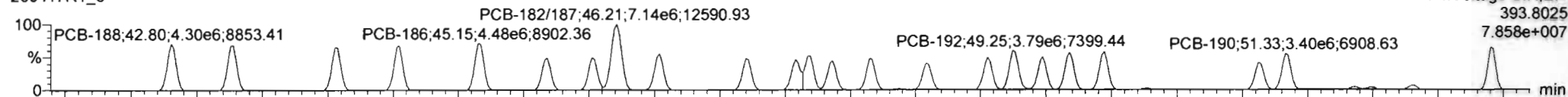
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

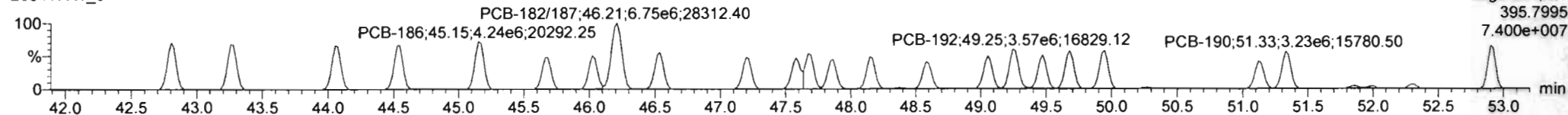
Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

PCB-188

200417R1\_6

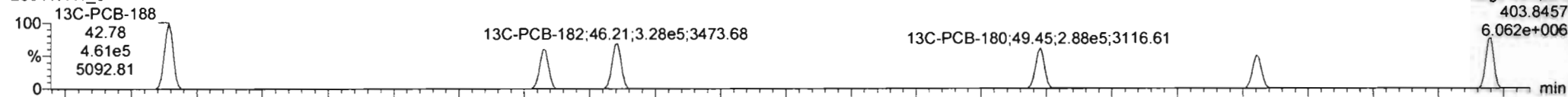


200417R1\_6

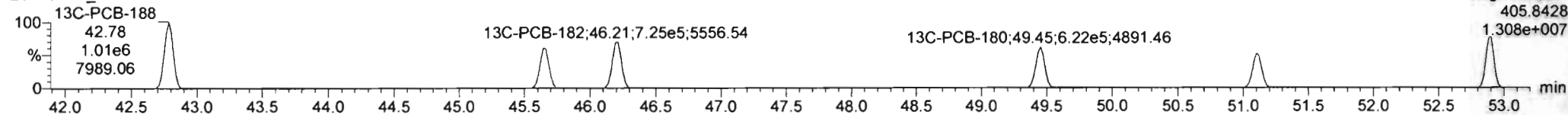


13C-PCB-188

200417R1\_6

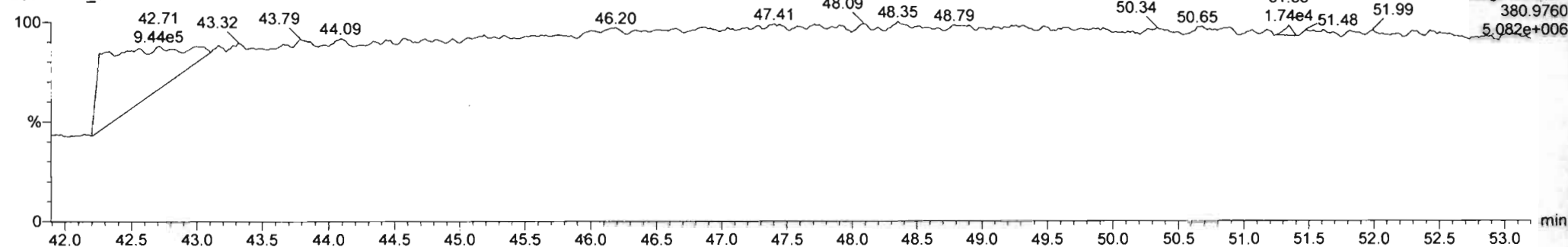


200417R1\_6



PFK4c

200417R1\_6





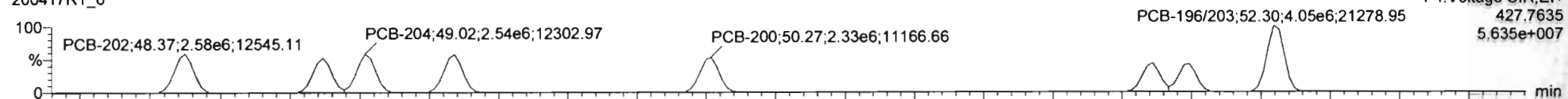
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

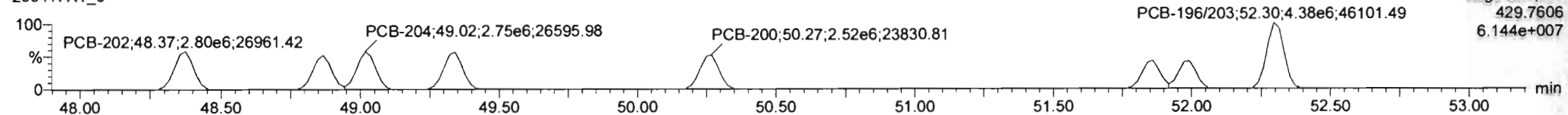
Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

**PCB-202**

200417R1\_6

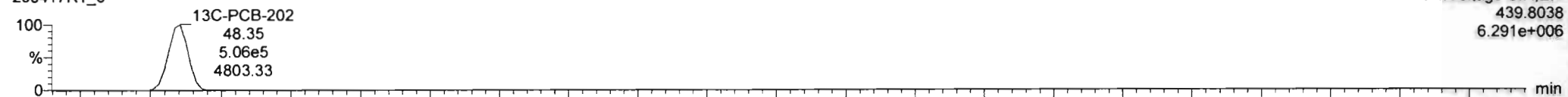


200417R1\_6

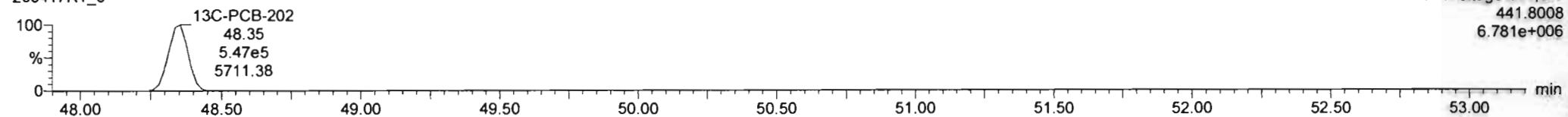


**13C-PCB-202**

200417R1\_6

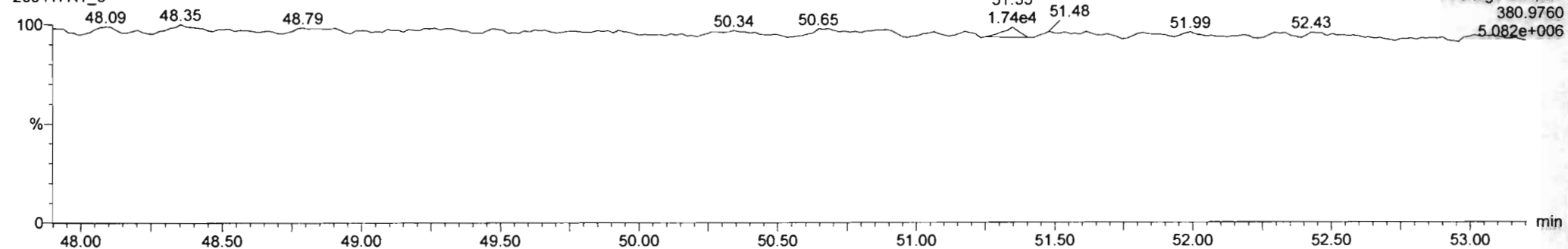


200417R1\_6



**PFK4d**

200417R1\_6



Dataset: Untitled

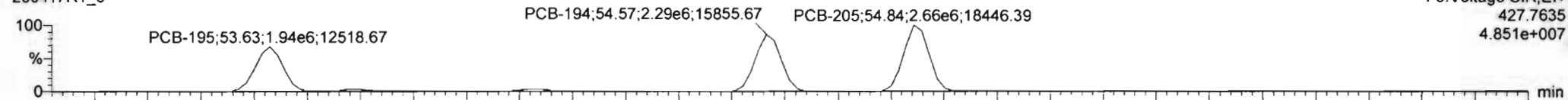
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

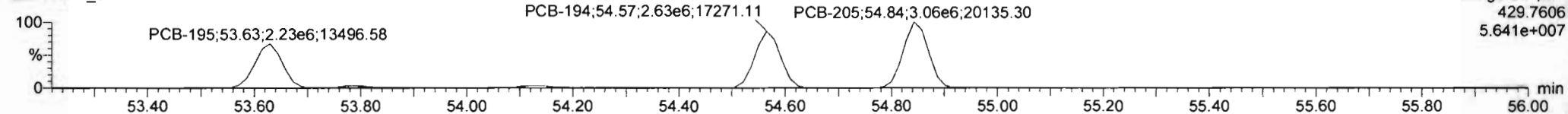
**PCB-195**

200417R1\_6



F5:Voltage SIR,EI+  
427.7635  
4.851e+007

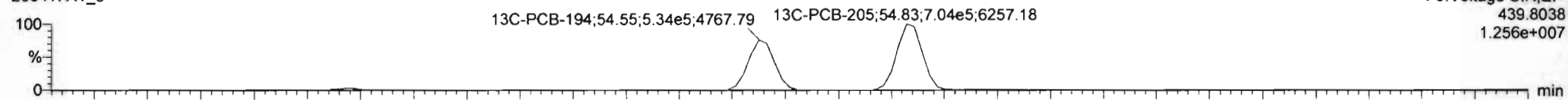
200417R1\_6



F5:Voltage SIR,EI+  
429.7606  
5.641e+007

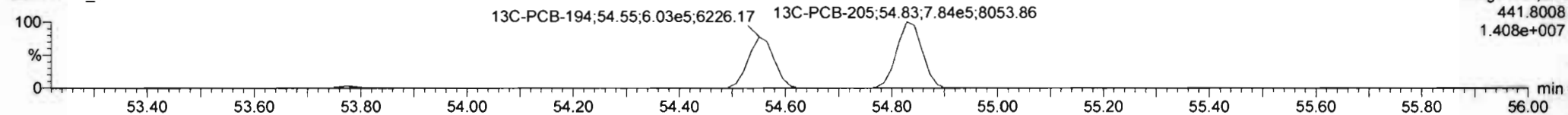
**13C-PCB-194**

200417R1\_6



F5:Voltage SIR,EI+  
439.8038  
1.256e+007

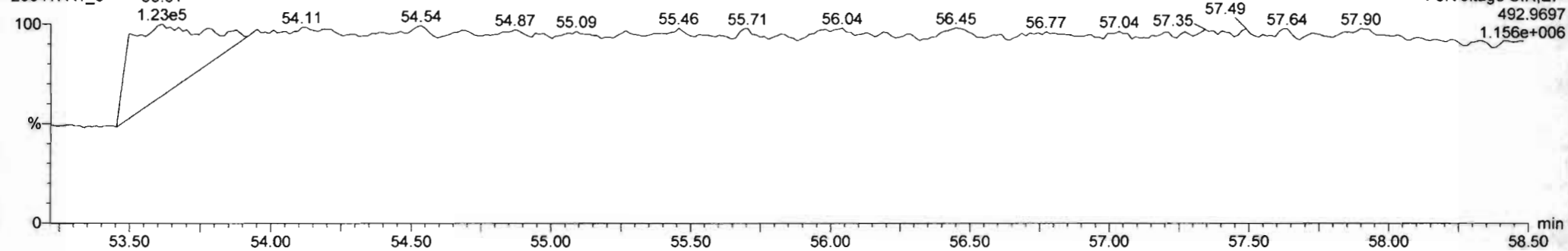
200417R1\_6



F5:Voltage SIR,EI+  
441.8008  
1.408e+007

**PFK5**

200417R1\_6



F5:Voltage SIR,EI+  
492.9697  
1.156e+006

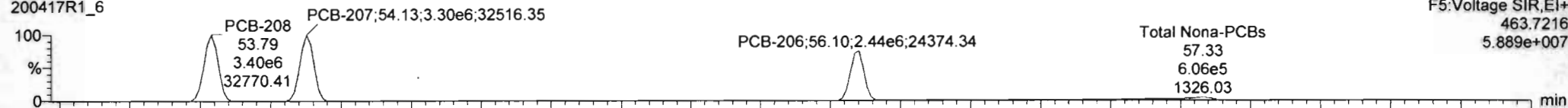
Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

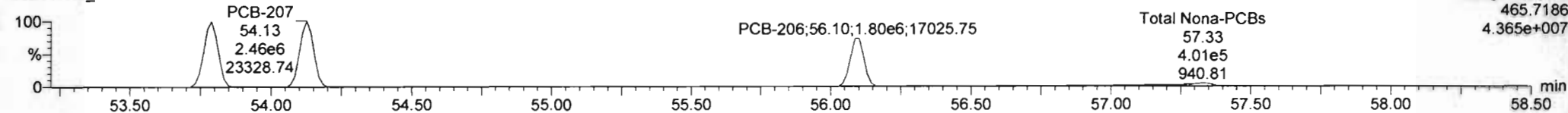
Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

PCB-208

200417R1\_6

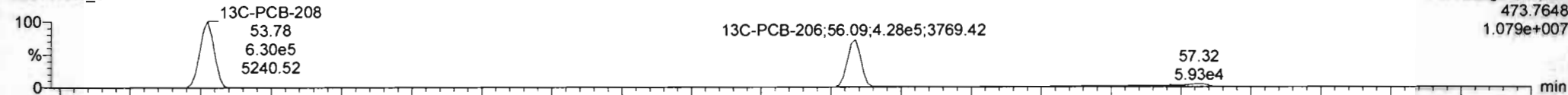


200417R1\_6

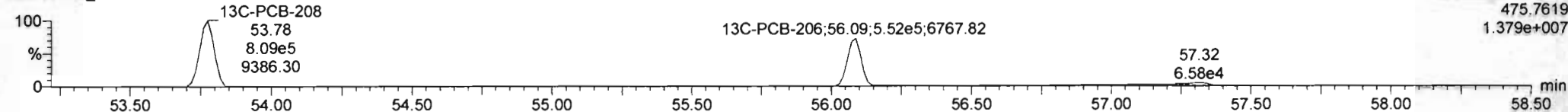


13C-PCB-208

200417R1\_6

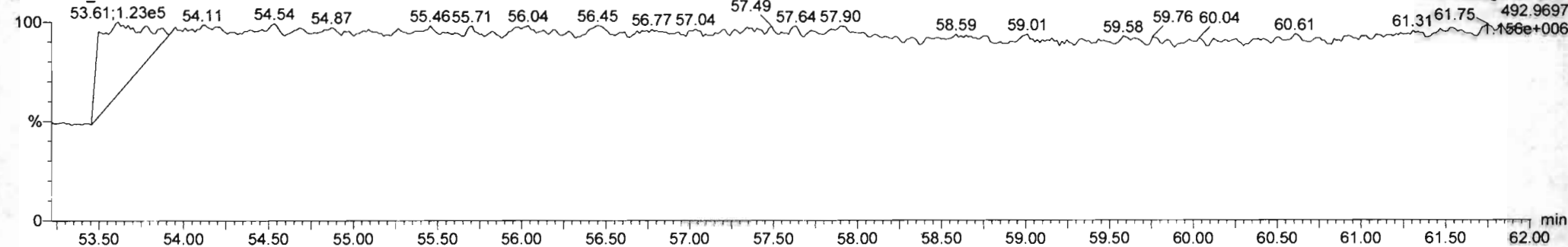


200417R1\_6



PFK5a

200417R1\_6



Dataset: Untitled

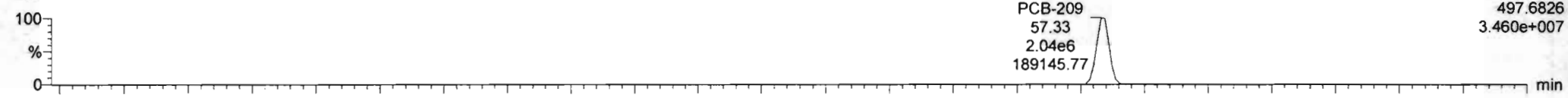
Last Altered: Monday, April 20, 2020 10:41:39 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:42:46 AM Pacific Daylight Time

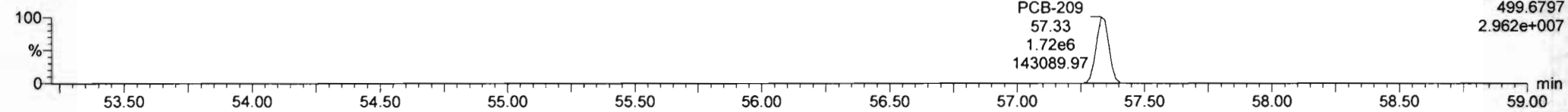
Name: 200417R1\_6, Date: 17-Apr-2020, Time: 21:17:17, ID: ST200417R1\_6 1668 PCB CS4 19G2610, Description: 1668 PCB CS4 19G2610

**PCB-209**

200417R1\_6

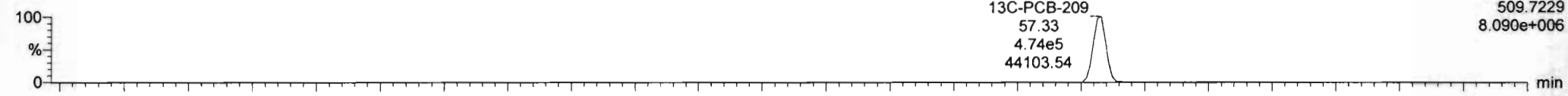


200417R1\_6

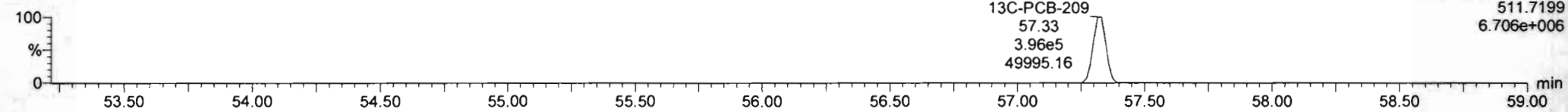


**13C-PCB-209**

200417R1\_6

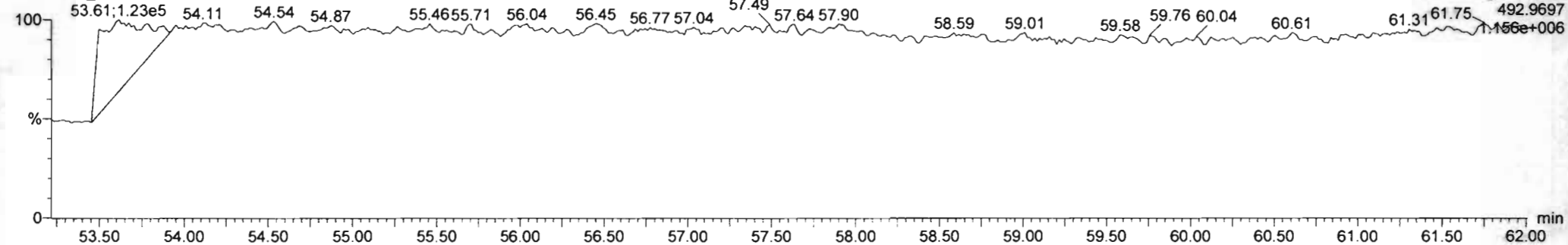


200417R1\_6



**PFK5b**

200417R1\_6



Dataset: U:\VG12.PRO\Results\200417R1\200417R1-9.qld

Last Altered: Tuesday, April 21, 2020 8:31:52 AM Pacific Daylight Time

Printed: Tuesday, April 21, 2020 8:32:11 AM Pacific Daylight Time

*GPB 04/21/2020*

*C7 04/21/2020*

Method: Untitled 18 Apr 2020 09:45:17

Calibration: U:\VG12.PRO\CurveDB\db1\_PCBvg12-04-17-20.cdb 20 Apr 2020 10:18:05

Name: 200417R1\_9, Date: 18-Apr-2020, Time: 00:26:52, ID: SS200417R1\_1 1668 PCB SSS 19G2612, Description: 1668 PCB SSS 19G2612

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	4.91e6	3.14	NO	1.08	1.000	15.50	15.51	1.001	1.001	NO	101.7	10-130	0.00294	101.7
2	2 PCB-2			NO	1.03	1.000	17.90		0.988		YES			0.00290	
3	3 PCB-3	5.11e6	3.18	NO	1.08	1.000	18.14	18.13	1.001	1.001	NO	103.3		0.00276	103.3
4	4 PCB-4/10	5.76e6	1.48	NO	0.897	1.000	19.55	19.55	1.005	1.004	NO	224.0	125-225	0.0120	224.0
5	5 PCB-7/9	3.47e6	1.47	NO	0.715	1.000	21.34	21.31	1.002	1.001	NO	111.1	70-130	0.00994	111.1
6	6 PCB-6			NO	0.729	1.000	21.99		1.033		YES			0.00975	
7	7 PCB-5/8	3.51e6	1.48	NO	0.722	1.000	22.39	22.38	1.052	1.051	NO	111.2		0.00985	111.2
8	8 PCB-14			NO	0.753	1.000	23.53		0.952		YES			0.00974	
9	9 PCB-11	3.34e6	1.48	NO	0.834	1.000	24.74	24.73	1.001	1.001	NO	96.33		0.00880	96.33
10	10 PCB-12/13	3.14e6	1.48	NO	0.733	1.000	25.10	25.17	1.016	1.018	NO	103.1		0.0100	103.1
11	11 PCB-15	3.51e6	1.48	NO	0.782	1.000	25.45	25.45	1.030	1.030	NO	107.9		0.00938	107.9
12	12 PCB-19	1.23e6	1.05	NO	1.06	1.000	23.69	23.70	1.001	1.001	NO	50.98	35-65	0.00655	50.98
13	13 PCB-30			NO	1.63	1.000	24.61		1.040		YES			0.00425	
14	14 PCB-18	1.21e6	1.06	NO	0.777	1.000	25.39	25.37	0.952	0.952	NO	49.51		0.00633	49.51
15	15 PCB-17			NO	0.734	1.000	25.56		0.959		YES			0.00670	
16	16 PCB-24/27			NO	1.02	1.000	26.14		0.981		YES			0.00484	
17	17 PCB-16/32			NO	0.900	1.000	26.67		1.001		YES			0.00547	
18	18 PCB-34			NO	0.664	1.000	27.50		0.960		YES			0.00859	
19	19 PCB-23			NO	0.616	1.000	27.59		0.963		YES			0.00927	
20	20 PCB-29			NO	0.615	1.000	27.83		0.971		YES			0.00928	
21	21 PCB-26			NO	0.666	1.000	28.06		0.979		YES			0.00857	
22	22 PCB-25			NO	0.650	1.000	28.22		0.985		YES			0.00878	
23	23 PCB-31	1.41e6	0.98	NO	0.749	1.000	28.58	28.57	0.998	0.997	NO	52.23		0.00762	52.23
24	24 PCB-28	1.32e6	0.98	NO	0.775	1.000	28.69	28.66	1.001	1.001	NO	47.08		0.00737	47.08
25	25 PCB-20/21/33	1.23e6	0.98	NO	0.669	1.000	29.29	29.33	1.023	1.024	NO	50.81		0.00853	50.81
26	26 PCB-22			NO	0.731	1.000	29.76		1.039		YES			0.00780	
27	27 PCB-36			NO	0.786	1.000	30.37		0.931		YES			0.00900	
28	28 PCB-39			NO	0.730	1.000	30.86		0.946		YES			0.00969	
29	29 PCB-38	1.15e6	0.98	NO	0.772	1.000	31.64	31.66	0.970	0.971	NO	46.64		0.00916	46.64
30	30 PCB-35	1.15e6	1.00	NO	0.747	1.000	32.18	32.20	0.987	0.987	NO	48.21		0.00947	48.21
31	31 PCB-37	1.27e6	0.98	NO	0.756	1.000	32.62	32.63	1.000	1.001	NO	52.78		0.00936	52.78

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Name: 200417R1\_9, Date: 18-Apr-2020, Time: 00:26:52, ID: SS200417R1\_1 1668 PCB SSS 19G2612, Description: 1668 PCB SSS 19G2612

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 PCB-54	1.53e6	0.78	NO	0.999	1.000	27.51	27.53	1.001	1.001	NO	52.00	35-65	0.00875	52.00
33	33 PCB-50			NO	0.788	1.000	28.70		1.044		YES			0.0111	
34	34 PCB-53			NO	0.933	1.000	29.39		0.945		YES			0.0121	
35	35 PCB-51			NO	1.02	1.000	29.72		0.955		YES			0.0111	
36	36 PCB-45			NO	0.762	1.000	30.17		0.970		YES			0.0149	
37	37 PCB-46			NO	0.738	1.000	30.67		0.986		YES			0.0153	
38	38 PCB-52/69	1.25e6	0.79	NO	1.09	1.000	31.15	31.16	1.001	1.001	NO	49.39		0.0104	49.39
39	39 PCB-73			NO	1.30	1.000	31.28		1.005		YES			0.00868	
40	40 PCB-43/49	1.11e6	0.79	NO	0.914	1.000	31.45	31.45	1.011	1.011	NO	52.43		0.0124	52.43
41	41 PCB-47			NO	0.841	1.000	31.66		1.001		YES			0.0122	
42	42 PCB-48/75			NO	1.01	1.000	31.77		1.004		YES			0.0102	
43	43 PCB-65			NO	1.05	1.000	32.05		1.013		YES			0.00976	
44	44 PCB-62			NO	1.02	1.000	32.14		1.016		YES			0.0100	
45	45 PCB-44	9.51e5	0.78	NO	0.716	1.000	32.47	32.48	1.026	1.026	NO	54.27		0.0144	54.27
46	46 PCB-42/59			NO	0.943	1.000	32.70		1.033		YES			0.0109	
47	47 PCB-41/64/71/72			NO	1.07	1.000	33.29		1.052		YES			0.00964	
48	48 PCB-68			NO	1.09	1.000	33.57		1.061		YES			0.00943	
49	49 PCB-40			NO	0.535	1.000	33.78		1.067		YES			0.0192	
50	50 PCB-57	1.32e6	0.78	NO	1.03	1.000	34.17	34.17	0.969	0.969	NO	47.50		0.00909	47.50
51	51 PCB-67			NO	0.985	1.000	34.49		0.979		YES			0.00953	
52	52 PCB-58			NO	1.05	1.000	34.60		0.982		YES			0.00891	
53	53 PCB-63			NO	0.933	1.000	34.77		0.986		YES			0.0101	
54	54 PCB-74	1.38e6	0.78	NO	1.03	1.000	35.06	35.05	0.995	0.994	NO	50.16		0.00914	50.16
55	55 PCB-61/70	1.47e6	0.79	NO	0.968	1.000	35.27	35.27	1.001	1.001	NO	56.63		0.00970	56.63
56	56 PCB-76/66	1.35e6	0.79	NO	1.04	1.000	35.45	35.47	1.006	1.006	NO	48.36		0.00901	48.36
57	57 PCB-80			NO	1.07	1.000	35.69		1.000		YES			0.00906	
58	58 PCB-55			NO	1.05	1.000	36.01		1.009		YES			0.00928	
59	59 PCB-56/60			NO	0.932	1.000	36.51		1.023		YES			0.0104	
60	60 PCB-79	1.41e6	0.78	NO	1.06	1.000	37.61	37.63	1.054	1.055	NO	49.06		0.00921	49.06
61	61 PCB-78	1.16e6	0.79	NO	1.00	1.000	38.34	38.34	0.987	0.987	NO	45.78		0.0101	45.78
62	62 PCB-81	1.40e6	0.78	NO	0.954	1.000	38.88	38.88	1.000	1.000	NO	57.52		0.0106	57.52
63	63 PCB-77	1.33e6	0.79	NO	1.07	1.000	39.49	39.49	1.000	1.000	NO	50.33		0.00996	50.33
64	64 PCB-104	1.13e6	1.63	NO	1.14	1.000	32.33	32.33	1.001	1.001	NO	54.70		0.00816	54.70
65	65 PCB-96			NO	1.12	1.000	33.61		1.040		YES			0.00827	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
66	66 PCB-103			NO	0.862	1.000	34.17		1.058		YES		35-65	0.0108	
67	67 PCB-100			NO	0.903	1.000	34.52		1.068		YES			0.0103	
68	68 PCB-94			NO	0.907	1.000	35.02		0.985		YES			0.0140	
69	69 PCB-95/98/102	7.99e5	1.65	NO	1.18	1.000	35.50	35.59	0.999	1.001	NO	48.52		0.0107	48.52
70	70 PCB-93			NO	0.847	1.000	35.63		1.002		YES			0.0150	
71	71 PCB-88/91			NO	0.981	1.000	35.96		1.012		YES			0.0129	
72	72 PCB-121			NO	1.54	1.000	36.08		1.015		YES			0.00820	
73	73 PCB-84/92			NO	0.977	1.000	36.92		0.990		YES			0.0134	
74	74 PCB-89			NO	1.11	1.000	37.11		0.995		YES			0.0118	
75	75 PCB-90/101	8.41e5	1.63	NO	1.08	1.000	37.30	37.32	1.000	1.001	NO	58.19		0.0121	58.19
76	76 PCB-113			NO	1.46	1.000	37.56		1.007		YES			0.00903	
77	77 PCB-99	8.46e5	1.61	NO	1.24	1.000	37.65	37.65	1.009	1.009	NO	51.02		0.0106	51.02
78	78 PCB-119			NO	1.66	1.000	38.11		0.987		YES			0.00915	
79	79 PCB-108/112			NO	1.39	1.000	38.26		0.991		YES			0.0109	
80	80 PCB-83			NO	1.67	1.000	38.43		0.995		YES			0.00912	
81	81 PCB-97			NO	1.25	1.000	38.64		1.000		YES			0.0121	
82	82 PCB-86			NO	1.09	1.000	38.78		1.004		YES			0.0139	
83	83 PCB-87/117/125	7.10e5	1.62	NO	1.53	1.000	38.91	38.94	1.008	1.008	NO	41.08		0.00993	41.08
84	84 PCB-111/115	9.80e5	1.61	NO	1.81	1.000	39.08	39.10	1.012	1.013	NO	47.90		0.00839	47.90
85	85 PCB-85/116			NO	1.32	1.000	39.19		1.015		YES			0.0115	
86	86 PCB-120			NO	1.90	1.000	39.47		1.022		YES			0.00801	
87	87 PCB-110	9.64e5	1.61	NO	1.65	1.000	39.60	39.61	1.025	1.026	NO	51.71		0.00921	51.71
88	88 PCB-82			NO	0.779	1.000	40.24		0.976		YES			0.0157	
89	89 PCB-124			NO	1.32	1.000	40.94		0.993		YES			0.00929	
90	90 PCB-107/109			NO	1.30	1.000	41.09		0.996		YES			0.00946	
91	91 PCB-123	9.48e5	1.62	NO	1.19	1.000	41.28	41.28	1.001	1.001	NO	54.74		0.0103	54.74
92	92 PCB-106/118	1.02e6	1.63	NO	1.22	1.000	41.48	41.47	1.001	1.000	NO	53.82		0.00948	53.82
93	93 PCB-114	8.60e5	1.49	NO	0.886	1.000	42.12	42.12	1.000	1.000	NO	49.58		0.0147	49.58
94	94 PCB-122			NO	0.741	1.000	42.25		1.004		YES			0.0175	
95	95 PCB-105	9.18e5	1.51	NO	0.850	1.000	43.03	43.01	1.001	1.000	NO	52.58		0.0146	52.58
96	96 PCB-127			NO	0.858	1.000	43.36		1.000		YES			0.0145	
97	97 PCB-126	9.10e5	1.52	NO	0.962	1.000	45.30	45.31	1.000	1.000	NO	51.15		0.0145	51.15
98	98 PCB-155	6.42e5	1.33	NO	1.01	1.000	36.85	36.83	1.001	1.001	NO	61.15		0.00868	61.15
99	99 PCB-150			NO	1.05	1.000	38.13		1.036		YES			0.00842	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
100	1... PCB-152			NO	1.20	1.000	38.62		1.049		YES	35-65		0.00734	
101	1... PCB-145			NO	1.17	1.000	39.06		1.061		YES			0.00752	
102	1... PCB-136			NO	1.01	1.000	39.40		1.070		YES			0.00875	
103	1... PCB-148			NO	0.770	1.000	39.51		1.073		YES			0.0114	
104	1... PCB-154			NO	0.862	1.000	40.03		1.087		YES			0.0102	
105	1... PCB-151			NO	0.723	1.000	40.68		1.105		YES			0.0122	
106	1... PCB-135			NO	0.836	1.000	40.89		1.111		YES			0.0105	
107	1... PCB-144			NO	0.756	1.000	41.00		1.114		YES			0.0117	
108	1... PCB-147			NO	0.789	1.000	41.15		1.118		YES			0.0112	
109	1... PCB-139/149	4.36e5	1.33	NO	0.896	1.000	41.41	41.41	1.125	1.125	NO	47.03		0.00984	47.03
110	1... PCB-140			NO	0.769	1.000	41.59		1.130		YES			0.0115	
111	1... PCB-134/143			NO	0.653	1.000	42.06		0.975		YES			0.0273	
112	1... PCB-131/133			NO	0.677	1.000	42.37		0.982		YES			0.0264	
113	1... PCB-142			NO	0.614	1.000	42.54		0.986		YES			0.0291	
114	1... PCB-146/165			NO	0.836	1.000	42.78		0.991		YES			0.0213	
115	1... PCB-132/161			NO	0.908	1.000	43.01		0.997		YES			0.0196	
116	1... PCB-153	9.71e5	1.26	NO	1.00	1.000	43.20	43.18	1.001	1.000	NO	48.79		0.0178	48.79
117	1... PCB-168			NO	1.00	1.000	43.41		1.006		YES			0.0178	
118	1... PCB-141			NO	0.970	1.000	43.94		1.000		YES			0.0233	
119	1... PCB-137			NO	0.913	1.000	44.34		1.010		YES			0.0248	
120	1... PCB-130			NO	0.803	1.000	44.45		1.012		YES			0.0282	
121	1... PCB-138/163/164	8.13e5	1.25	NO	1.21	1.000	44.82	44.79	1.001	1.000	NO	41.92		0.0186	41.92
122	1... PCB-158/160			NO	1.10	1.000	45.07		1.007		YES			0.0204	
123	1... PCB-129			NO	0.779	1.000	45.30		1.012		YES			0.0289	
124	1... PCB-166			NO	1.01	1.000	45.78		0.993		YES			0.0196	
125	1... PCB-159			NO	1.11	1.000	46.12		1.000		YES			0.0178	
126	1... PCB-128/162	9.75e5	1.26	NO	0.859	1.000	46.42	46.42	1.007	1.007	NO	60.91		0.0230	60.91
127	1... PCB-167	1.08e6	1.25	NO	1.04	1.000	46.82	46.82	1.000	1.000	NO	54.32		0.0178	54.32
128	1... PCB-156	9.47e5	1.25	NO	1.08	1.000	48.15	48.15	1.000	1.000	NO	48.05		0.0190	48.05
129	1... PCB-157	1.08e6	1.25	NO	0.977	1.000	48.41	48.41	1.000	1.000	NO	58.09		0.0195	58.09
130	1... PCB-169	9.45e5	1.25	NO	1.11	1.000	50.68	50.67	1.000	1.000	NO	48.22		0.0195	48.22
131	1... PCB-188	1.02e6	1.05	NO	1.27	1.000	42.82	42.80	1.001	1.000	NO	53.31		0.0182	53.31
132	1... PCB-184			NO	1.33	1.000	43.29		1.012		YES			0.0174	
133	1... PCB-179			NO	1.25	1.000	44.07		1.030		YES			0.0184	



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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
134	1... PCB-176			NO	1.22	1.000	44.56		1.041		YES	35-65		0.0188	
135	1... PCB-186			NO	1.31	1.000	45.17		1.056		YES			0.0176	
136	1... PCB-178	6.98e5	1.06	NO	0.889	1.000	45.69	45.67	1.068	1.067	NO	52.05		0.0259	52.05
137	1... PCB-175			NO	0.886	1.000	46.02		1.076		YES			0.0260	
138	1... PCB-182/187	7.72e5	1.06	NO	1.04	1.000	46.21	46.19	1.080	1.080	NO	49.16		0.0221	49.16
139	1... PCB-183			NO	0.972	1.000	46.55		1.088		YES			0.0237	
140	1... PCB-185			NO	1.35	1.000	47.19		0.955		YES			0.0272	
141	1... PCB-174	6.57e5	1.05	NO	1.28	1.000	47.57	47.58	0.962	0.962	NO	52.35		0.0286	52.35
142	1... PCB-181			NO	1.48	1.000	47.66		0.964		YES			0.0248	
143	1... PCB-177			NO	1.24	1.000	47.85		0.968		YES			0.0296	
144	1... PCB-171			NO	1.33	1.000	48.13		0.974		YES			0.0276	
145	1... PCB-173			NO	1.16	1.000	48.56		0.982		YES			0.0318	
146	1... PCB-172			NO	1.34	1.000	49.04		0.992		YES			0.0274	
147	1... PCB-192			NO	1.67	1.000	49.23		0.996		YES			0.0221	
148	1... PCB-180	7.83e5	1.06	NO	1.38	1.000	49.45	49.47	1.000	1.001	NO	58.04		0.0266	58.04
149	1... PCB-193			NO	1.56	1.000	49.66		1.005		YES			0.0236	
150	1... PCB-191			NO	1.60	1.000	49.93		1.010		YES			0.0229	
151	1... PCB-170	6.19e5	1.06	NO	1.41	1.000	51.12	51.12	1.000	1.000	NO	51.41		0.0288	51.41
152	1... PCB-190			NO	1.79	1.000	51.33		1.005		YES			0.0228	
153	1... PCB-189	8.23e5	1.06	NO	1.47	1.000	52.90	52.90	1.000	1.000	NO	50.98		0.0193	50.98
154	1... PCB-202	6.64e5	0.92	NO	1.09	1.000	48.36	48.35	1.000	1.000	NO	52.60		0.0109	52.60
155	1... PCB-201			NO	0.947	1.000	48.86		1.011		YES			0.0126	
156	1... PCB-204			NO	1.03	1.000	49.01		1.014		YES			0.0116	
157	1... PCB-197			NO	1.02	1.000	49.33		1.020		YES			0.0116	
158	1... PCB-200	5.68e5	0.93	NO	0.976	1.000	50.25	50.25	1.040	1.040	NO	50.29		0.0122	50.29
159	1... PCB-198			NO	0.752	1.000	51.83		1.072		YES			0.0159	
160	1... PCB-199			NO	0.732	1.000	51.95		1.075		YES			0.0163	
161	1... PCB-196/203	4.52e5	0.92	NO	0.824	1.000	52.28	52.30	1.082	1.082	NO	47.35		0.0145	47.35
162	1... PCB-195	4.87e5	0.86	NO	0.765	1.000	53.61	53.62	0.983	0.983	NO	53.85		0.0253	53.85
163	1... PCB-194	5.57e5	0.86	NO	0.967	1.000	54.56	54.57	1.000	1.000	NO	48.70		0.0200	48.70
164	1... PCB-205	6.75e5	0.87	NO	1.11	1.000	54.84	54.84	1.005	1.005	NO	51.38		0.0174	51.38
165	1... PCB-208	7.33e5	1.36	NO	0.901	1.000	53.77	53.78	1.000	1.000	NO	51.75		0.0140	51.75
166	1... PCB-207			NO	0.841	1.000	54.11		1.007		YES			0.0150	
167	1... PCB-206	4.81e5	1.35	NO	0.958	1.000	56.08	56.09	1.000	1.000	NO	49.64		0.0189	49.64

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Name: 200417R1\_9, Date: 18-Apr-2020, Time: 00:26:52, ID: SS200417R1\_1 1668 PCB SSS 19G2612, Description: 1668 PCB SSS 19G2612

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
168	1... PCB-209	4.94e5	1.19	NO	0.956	1.000	57.33	57.33	1.000	1.000	NO	54.21 <del>35-65</del>	0.00275		54.21
169	1... 13C-PCB-1	4.46e6	3.29	NO	0.999	1.000	15.50	15.48	0.609	0.609	NO	100.3	100 <del>50-150</del> %	0.0118	
170	1... 13C-PCB-3	4.58e6	3.28	NO	1.03	1.000	18.14	18.12	0.713	0.712	NO	100.3	100	0.0115	
171	1... 13C-PCB-4	2.87e6	1.58	NO	0.650	1.000	19.48	19.46	0.766	0.765	NO	99.19	99.2	0.0103	
172	1... 13C-PCB-9	4.37e6	1.56	NO	0.996	1.000	21.30	21.29	0.837	0.837	NO	98.60	98.6	0.00670	
173	1... 13C-PCB-11	4.16e6	1.55	NO	0.959	1.000	24.72	24.71	0.972	0.972	NO	97.45	97.4	0.00696	
174	1... 13C-PCB-19	2.27e6	1.09	NO	0.529	1.000	23.68	23.67	0.931	0.931	NO	96.57	96.6	0.0798	
175	1... 13C-PCB-32	3.16e6	1.08	NO	0.760	1.000	26.64	26.65	1.048	1.048	NO	93.27	93.3	0.0555	
176	1... 13C-PCB-28	3.61e6	0.90	NO	1.10	1.000	28.64	28.65	1.003	1.003	NO	96.75	96.8	0.0688	
177	1... 13C-PCB-37	3.19e6	1.02	NO	0.983	1.000	32.60	32.61	1.142	1.142	NO	95.21	95.2	0.0768	
178	1... 13C-PCB-54	2.94e6	0.80	NO	1.07	1.000	27.54	27.49	0.754	0.753	NO	103.6	104	0.0222	
179	1... 13C-PCB-52	2.32e6	0.79	NO	0.854	1.000	31.15	31.12	0.853	0.852	NO	102.2	102	0.0278	
180	1... 13C-PCB-47	2.44e6	0.79	NO	0.905	1.000	31.67	31.64	0.867	0.867	NO	101.6	102	0.0262	
181	1... 13C-PCB-70	2.68e6	0.81	NO	1.01	1.000	35.26	35.25	0.965	0.965	NO	100.4	100	0.0236	
182	1... 13C-PCB-80	2.72e6	0.80	NO	1.04	1.000	35.71	35.68	0.978	0.977	NO	97.88	97.9	0.0228	
183	1... 13C-PCB-81	2.54e6	0.80	NO	0.974	1.000	38.87	38.86	1.064	1.064	NO	98.27	98.3	0.0244	
184	1... 13C-PCB-77	2.48e6	0.80	NO	0.951	1.000	39.47	39.47	1.081	1.081	NO	98.34	98.3	0.0250	
185	1... 13C-PCB-104	1.82e6	1.65	NO	1.08	1.000	32.34	32.31	0.828	0.827	NO	103.8	104	0.0180	
186	1... 13C-PCB-95	1.39e6	1.64	NO	0.847	1.000	35.57	35.55	0.910	0.910	NO	101.8	102	0.0230	
187	1... 13C-PCB-101	1.33e6	1.65	NO	0.827	1.000	37.31	37.30	0.955	0.955	NO	99.91	99.9	0.0236	
188	1... 13C-PCB-97	1.13e6	1.66	NO	0.707	1.000	38.62	38.62	0.989	0.989	NO	98.78	98.8	0.0276	
189	1... 13C-PCB-123	1.46e6	1.59	NO	0.914	1.000	41.25	41.24	1.056	1.056	NO	98.79	98.8	0.0214	
190	1... 13C-PCB-118	1.56e6	1.61	NO	0.961	1.000	41.43	41.45	1.061	1.061	NO	100.3	100	0.0203	
191	1... 13C-PCB-114	1.96e6	1.57	NO	1.41	1.000	42.11	42.10	0.908	0.908	NO	99.51	99.5	0.0252	
192	1... 13C-PCB-105	2.05e6	1.57	NO	1.56	1.000	42.98	42.99	0.927	0.927	NO	94.12	94.1	0.0228	
193	1... 13C-PCB-127	2.10e6	1.56	NO	1.71	1.000	43.34	43.33	0.935	0.935	NO	87.74	87.7	0.0207	
194	1... 13C-PCB-126	1.85e6	1.56	NO	1.37	1.000	45.28	45.29	0.976	0.977	NO	96.51	96.5	0.0259	
195	1... 13C-PCB-155	1.03e6	1.30	NO	0.634	1.000	36.82	36.81	0.942	0.942	NO	100.9	101	0.0112	
196	1... 13C-PCB-153	1.99e6	1.26	NO	1.53	1.000	43.15	43.16	0.931	0.931	NO	92.99	93.0	0.0301	
197	1... 13C-PCB-141	1.57e6	1.29	NO	1.19	1.000	43.91	43.92	0.947	0.947	NO	93.92	93.9	0.0386	
198	1... 13C-PCB-138	1.60e6	1.28	NO	1.18	1.000	44.78	44.78	0.966	0.966	NO	96.81	96.8	0.0389	
199	1... 13C-PCB-159	1.86e6	1.27	NO	1.38	1.000	46.09	46.10	0.994	0.994	NO	96.26	96.3	0.0332	
200	2... 13C-PCB-167	1.91e6	1.27	NO	1.38	1.000	46.79	46.80	1.009	1.009	NO	98.53	98.5	0.0333	
201	2... 13C-PCB-156	1.82e6	1.27	NO	1.33	1.000	48.11	48.13	1.038	1.038	NO	97.77	97.8	0.0346	

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Name: 200417R1\_9, Date: 18-Apr-2020, Time: 00:26:52, ID: SS200417R1\_1 1668 PCB SSS 19G2612, Description: 1668 PCB SSS 19G2612

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
202	2... 13C-PCB-157	1.90e6	1.28	NO	1.36	1.000	48.37	48.39	1.043	1.044	NO	99.54	99.5 <sup>50-150%</sup>	0.0337	
203	2... 13C-PCB-169	1.77e6	1.26	NO	1.27	1.000	50.65	50.67	1.092	1.093	NO	99.83	99.8	0.0363	
204	2... 13C-PCB-188	1.51e6	0.46	NO	1.41	1.000	42.77	42.78	0.926	0.926	NO	98.17	98.2	0.0277	
205	2... 13C-PCB-180	9.78e5	0.46	NO	0.897	1.000	49.43	49.44	1.070	1.070	NO	99.92	99.9	0.0435	
206	2... 13C-PCB-170	8.51e5	0.45	NO	0.769	1.000	51.08	51.10	1.106	1.106	NO	101.5	102	0.0507	
207	2... 13C-PCB-189	1.10e6	0.45	NO	1.05	1.000	52.86	52.88	1.144	1.145	NO	96.08	96.1	0.0371	
208	2... 13C-PCB-202	1.16e6	0.94	NO	1.05	1.000	48.33	48.34	1.046	1.046	NO	101.5	102	0.0254	
209	2... 13C-PCB-194	1.18e6	0.90	NO	0.753	1.000	54.56	54.55	0.995	0.995	NO	98.08	98.1	0.0558	
210	2... 13C-PCB-208	1.57e6	0.78	NO	0.988	1.000	53.77	53.76	0.981	0.981	NO	99.31	99.3	0.0246	
211	2... 13C-PCB-206	1.01e6	0.78	NO	0.672	1.000	56.08	56.07	1.023	1.023	NO	93.93	93.9	0.0361	
212	2... 13C-PCB-209	9.54e5	1.22	NO	0.609	1.000	57.32	57.32	1.045	1.045	NO	97.68	97.7	0.00369	
213	2... 13C-PCB-15	4.45e6	1.56	NO	1.00	1.000	25.45	25.43	1.000	0.000	NO	100.0	100	0.00667	
214	2... 13C-PCB-31	3.40e6	1.16	NO	1.00	1.000	28.55	28.55	1.000	0.000	NO	100.0	100	0.0755	
215	2... 13C-PCB-60	2.66e6	0.80	NO	1.00	1.000	36.54	36.52	1.000	0.000	NO	100.0	100	0.0238	
216	2... 13C-PCB-111	1.62e6	1.62	NO	1.00	1.000	39.10	39.07	1.000	0.000	NO	100.0	100	0.0195	
217	2... 13C-PCB-128	1.40e6	1.27	NO	1.00	1.000	46.38	46.37	1.000	0.000	NO	100.0	100	0.0460	
218	2... 13C-PCB-182	1.09e6	0.46	NO	1.00	1.000	46.21	46.19	0.000	0.000	NO	100.0	100	0.0390	
219	2... 13C-PCB-205	1.60e6	0.89	NO	1.00	1.000	54.84	54.83	1.000	0.000	NO	100.0	100	0.0420	
220	2... 13C-PCB-79	2.90e6	0.80	NO	1.08	1.000	37.60	37.62	1.030	1.030	NO	101.1	101 <sup>70-130%</sup>	0.0220	
221	2... 13C-PCB-178	1.04e6	0.46	NO	0.731	1.000	45.65	45.65	0.988	0.988	NO	101.9	102	0.0432	
222	2... 13C-PCB-79	2.90e6	0.80	NO	1.11	1.000	37.60	37.62	0.967	0.968	NO	102.9	103	0.0225	
223	2... 13C-PCB-178	1.04e6	0.46	NO	1.05	1.000	45.66	45.65	0.924	0.923	NO	102.0	102	0.0434	

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Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

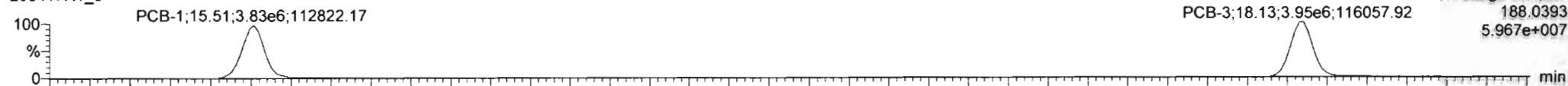
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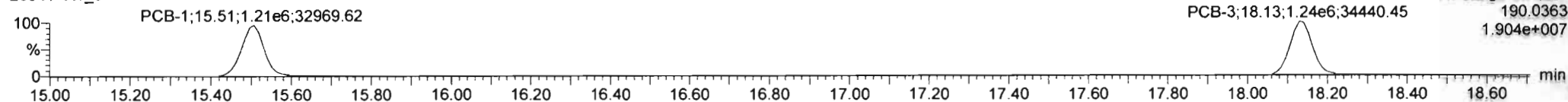
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PCB-1

200417R1\_9

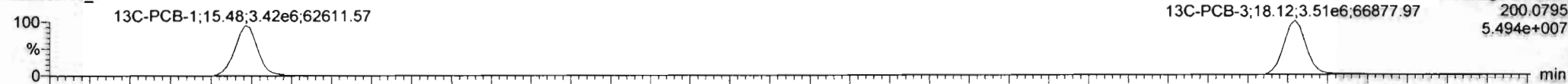


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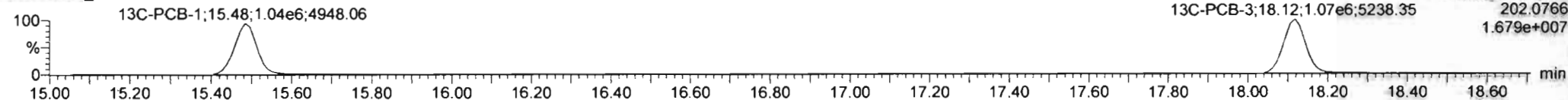


13C-PCB-1

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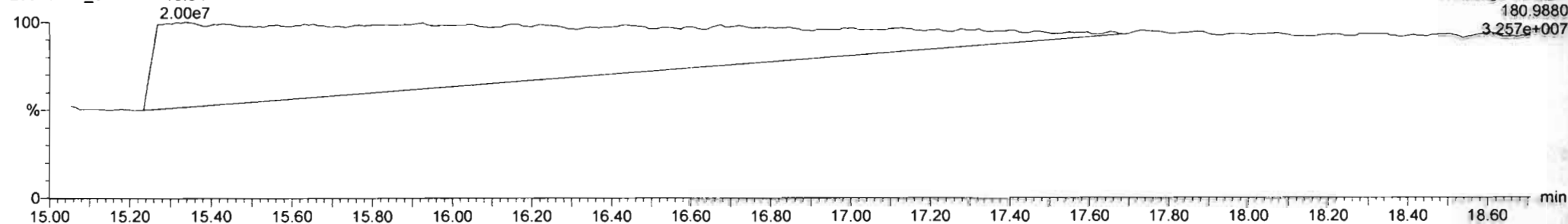


200417R1\_9



PFK1

200417R1\_9

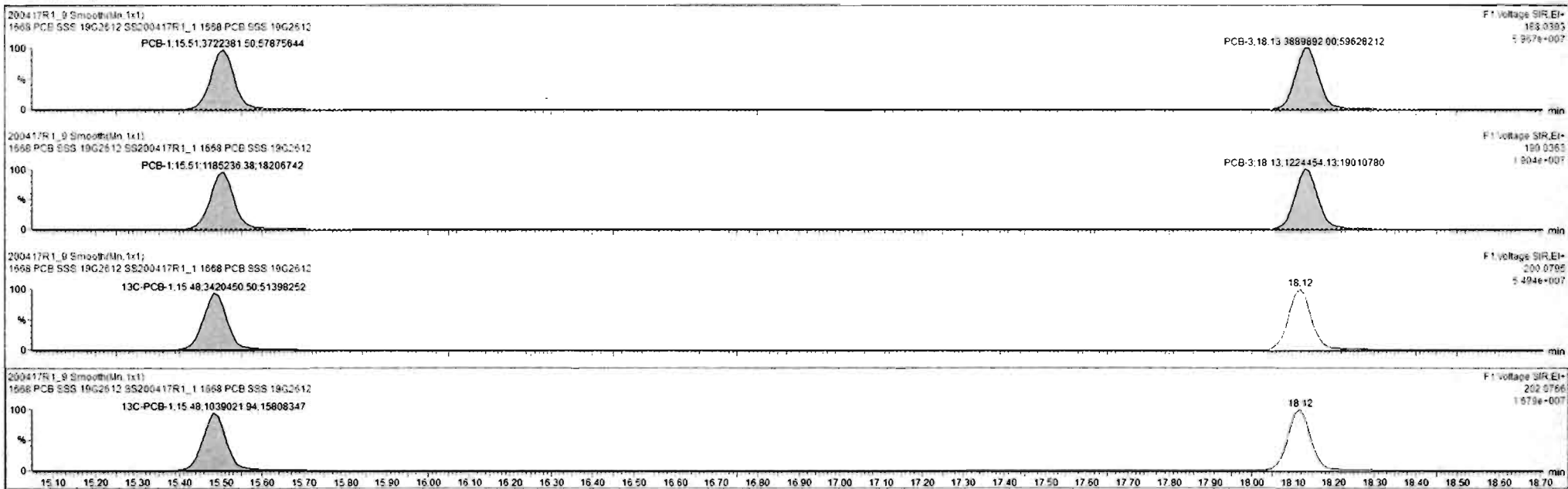


TargetLynx - 200417R1\_9.qtd - Chromatogram

File Edit View Display Processing Window Help

200417R1\_9 - SS200417R1\_1 1668 PCB SSS 19G2612 - 1668 PCB SSS 19G2612

ID	Name	Resp	RA	slr	RRF	wt%ol	RT	RRT	Conc	%Rec	DL
224	Total Mono-PCBs				1.063	1.00			205		0.00869
225	Total Di-PCBs				0.771	1.00			754		0.0795
226	2nd Function Tri-P				1.020	1.00			100		0.0341
227	3rd Function Tri-P				0.709	1.00			298		0.122
228	Total Tetra-PCBs				0.969	1.00			613		0.345
229	3rd Function Penta				1.256	1.00			457		0.312
230	4th Function Penta				0.859	1.00			153		0.0757
231	3rd Function Hexa				0.911	1.00			108		0.129
232	4th Function Hexa				0.933	1.00			360		0.440
233	Total Hepta-PCBs				1.314	1.00			367		0.551
234	4th Function Octa				0.922	1.00			150		0.106
235	5th Function Octa				0.947	1.00			154		0.0627
236	Total Nona-PCBs				0.900	1.00			101		0.0478
237	Deca-CB				0.956	1.00			54.2		0.00275
238	Total PCBs										
239	Total Mono-Isotopes										
240	Total Di-Isotopes										
241	Total Tri-Isotopes										



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200417R1\_9 NUM

11:05 AM

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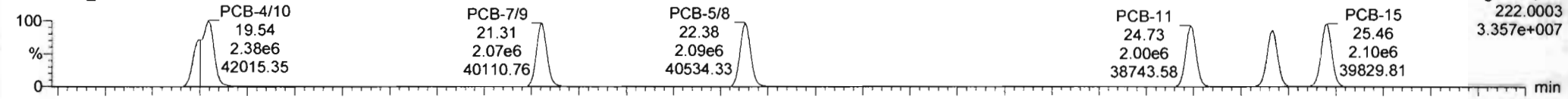
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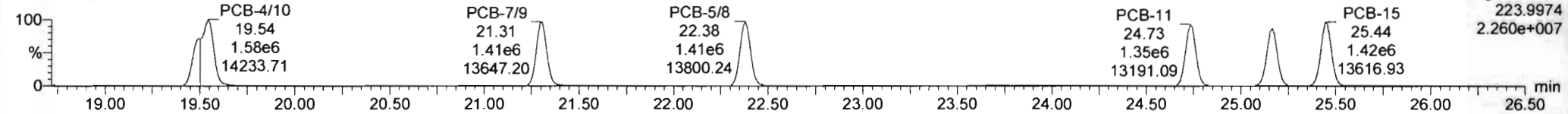
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**PCB-4/10**

200417R1\_9

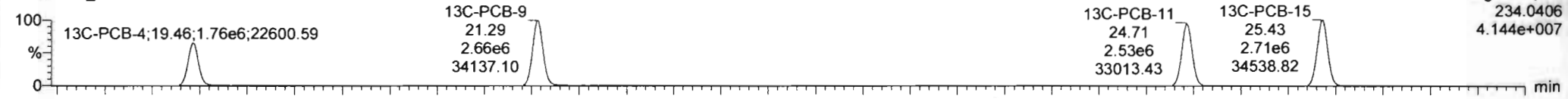


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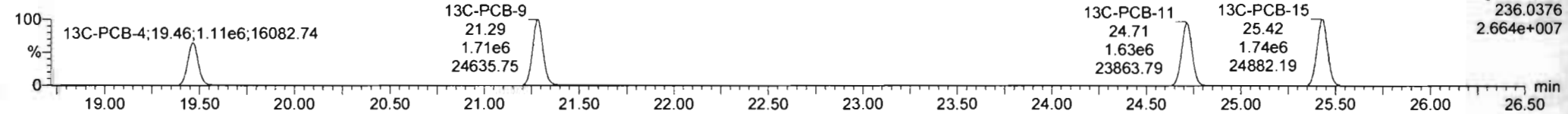


**13C-PCB-4**

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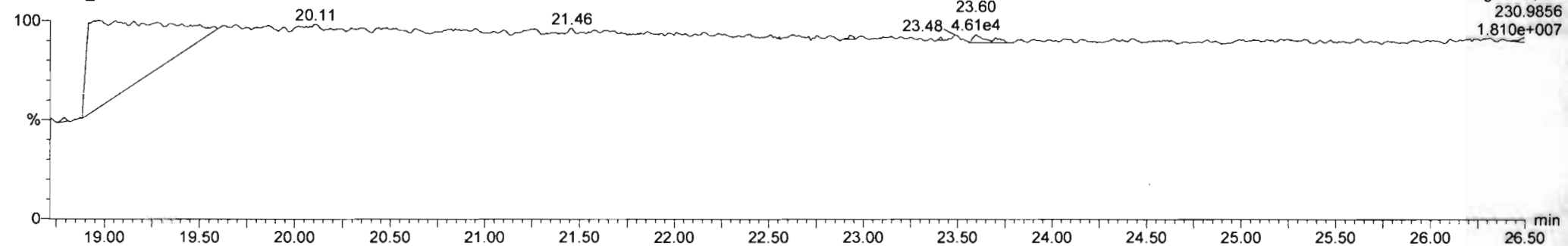


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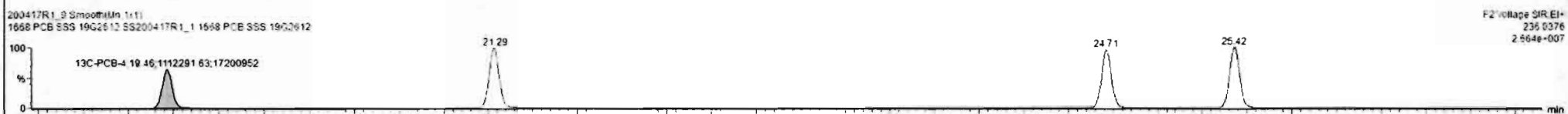
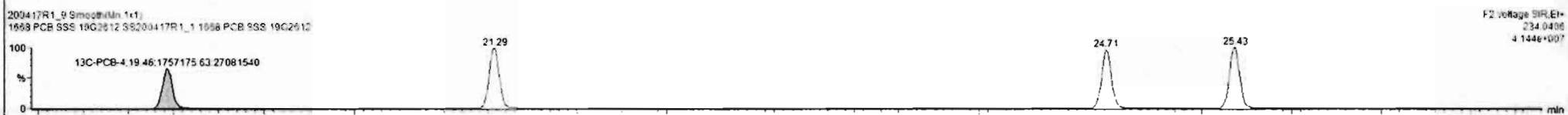
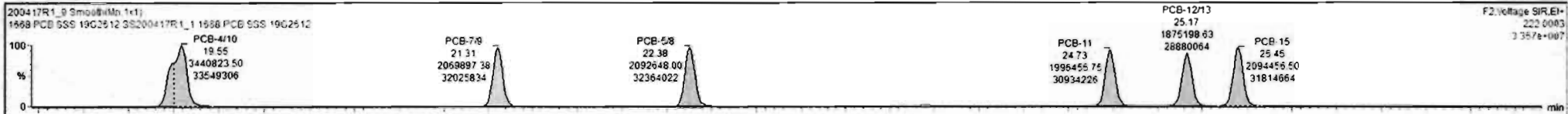
**PFK2a**

200417R1\_9



200417R1\_9 - SS200417R1\_1 1668 PCB SSS 19G2612 - 1668 PCB SSS 19G2612

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL
224 Total Mono-PCBs				1.063	1.00			205		0.00060
225 Total Di-PCBs				0.771	1.00			754		0.0795
226 2nd Function Tri-P				1.020	1.00			100		0.0341
227 3rd Function Tri-P				0.709	1.00			298		0.122
228 Total Tetra-PCBs				0.969	1.00			611		0.345
229 3rd Function Penta				1.256	1.00			457		0.312
230 4th Function Penta				0.859	1.00			153		0.0757
231 3rd Function Hexa				0.911	1.00			108		0.129
232 4th Function Hexa				0.933	1.00			360		0.440
233 Total Hepta-PCBs				1.314	1.00			367		0.551
234 4th Function Octa-				0.922	1.00			150		0.106
235 5th Function Octa-				0.947	1.00			154		0.0627
236 Total Nona-PCBs				0.900	1.00			101		0.0478
237 Deca-CB				0.956	1.00			54.2		0.00275
238 Total PCBs										
239 Total Mono-isotopes										
240 Total Di-isotopes										



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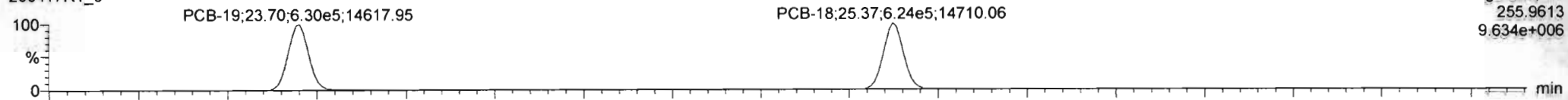
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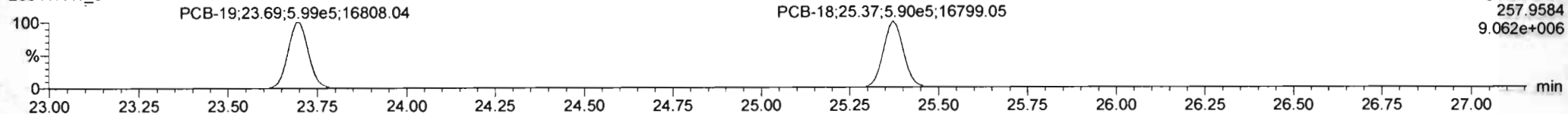
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PCB-19

200417R1\_9

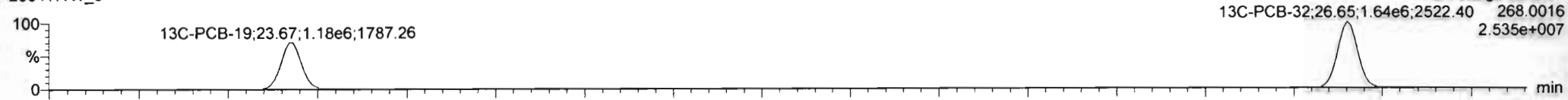


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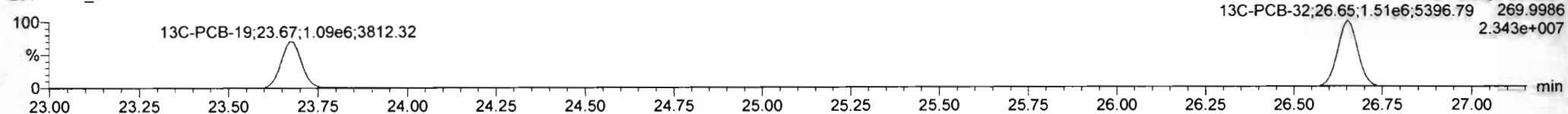


13C-PCB-19

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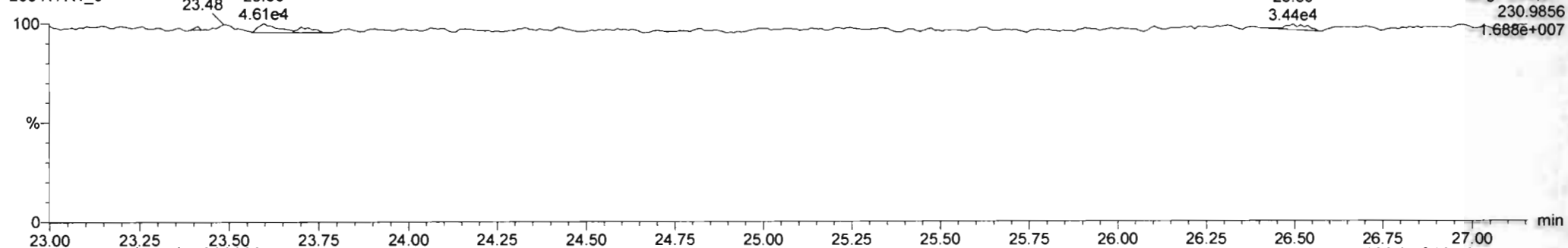


200417R1\_9



PFK2b

200417R1\_9





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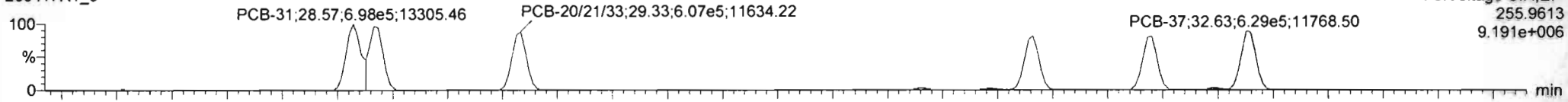
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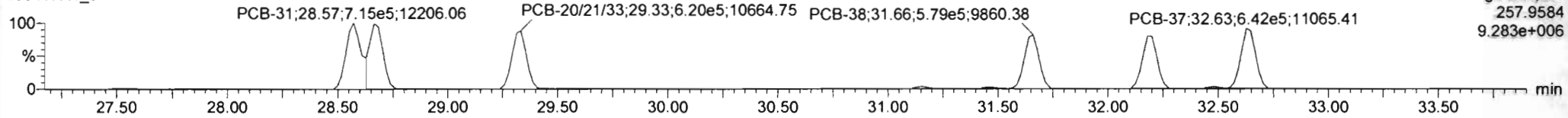
**PCB-34**

200417R1\_9



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9.191e+006

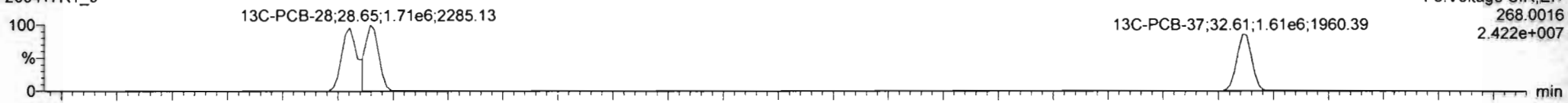
200417R1\_9



F3: Voltage SIR, EI+  
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9.283e+006

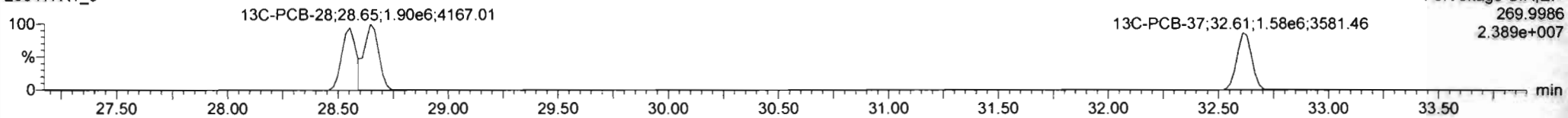
**13C-PCB-28**

200417R1\_9



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2.422e+007

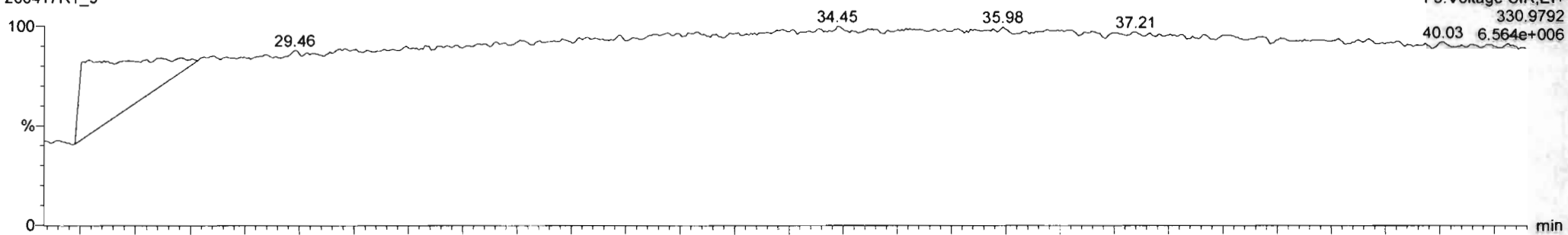
200417R1\_9



F3: Voltage SIR, EI+  
269.9986  
2.389e+007

**PFK3a**

200417R1\_9



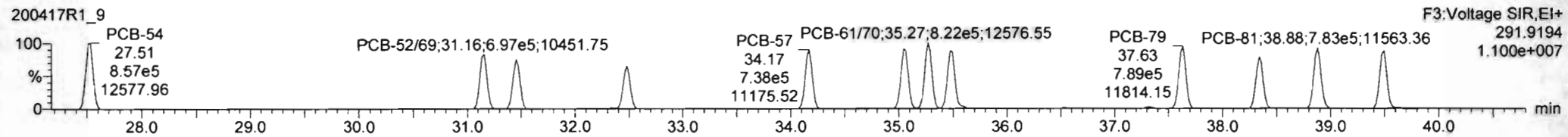
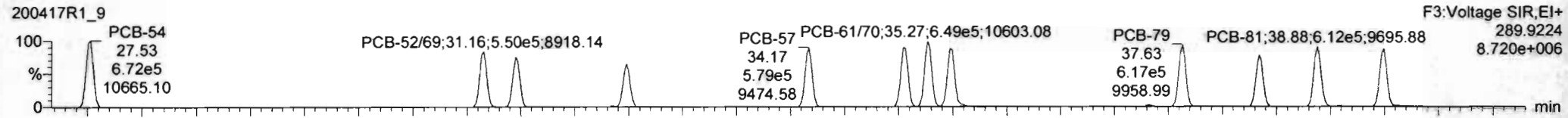
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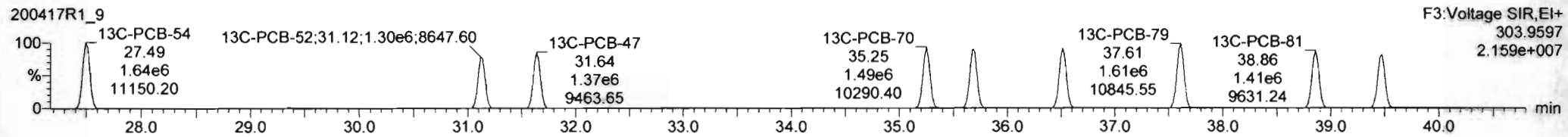
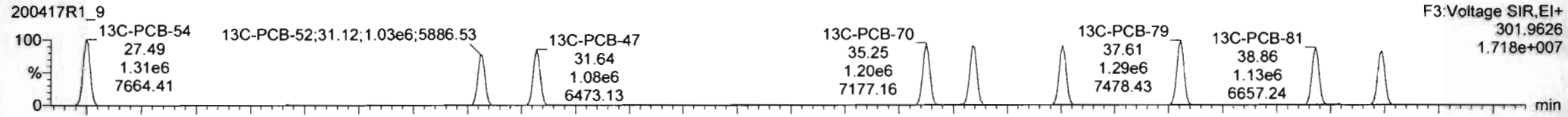
Last Altered: Monday, April 20, 2020 10:43:28 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

Name: 200417R1\_9, Date: 18-Apr-2020, Time: 00:26:52, ID: SS200417R1\_1 1668 PCB SSS 19G2612, Description: 1668 PCB SSS 19G2612

**PCB-54**



**13C-PCB-54**



**PFK3b**

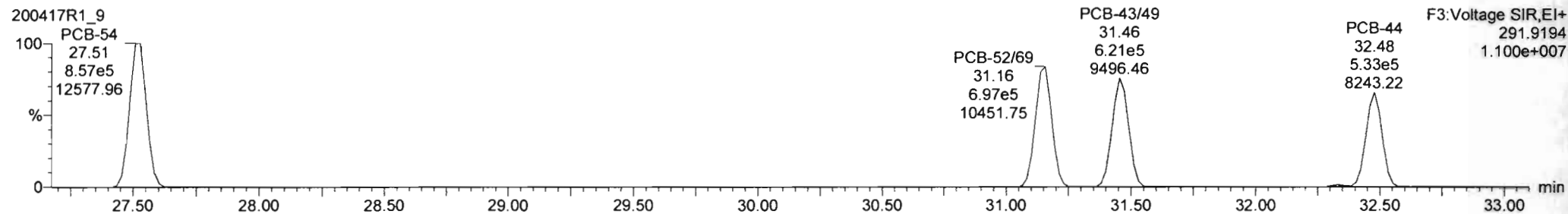
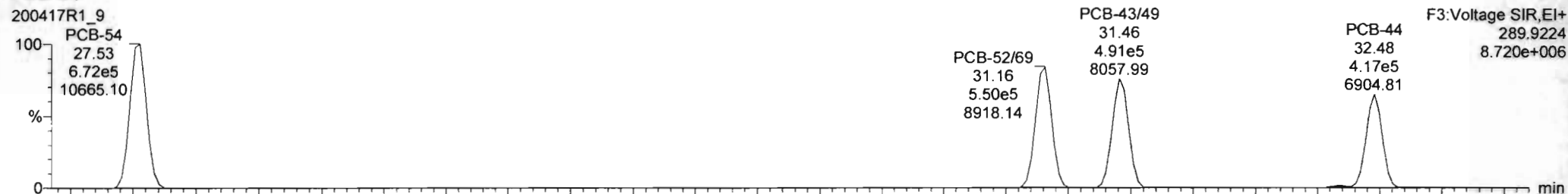


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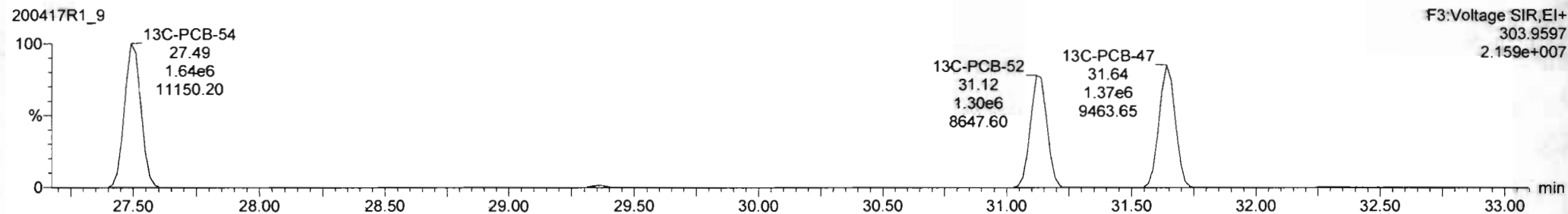
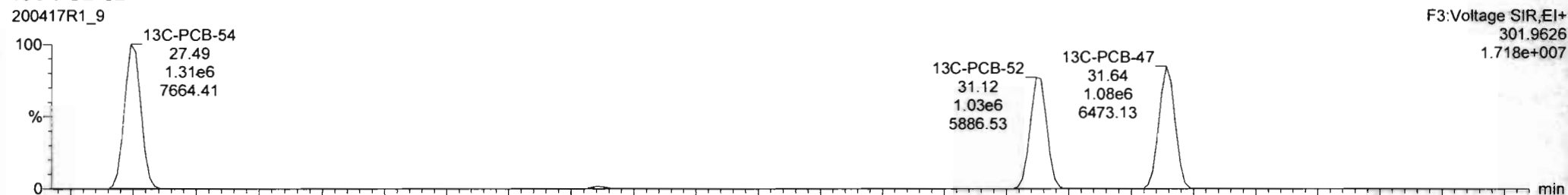
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Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

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PCB-50



13C-PCB-52



Dataset: Untitled

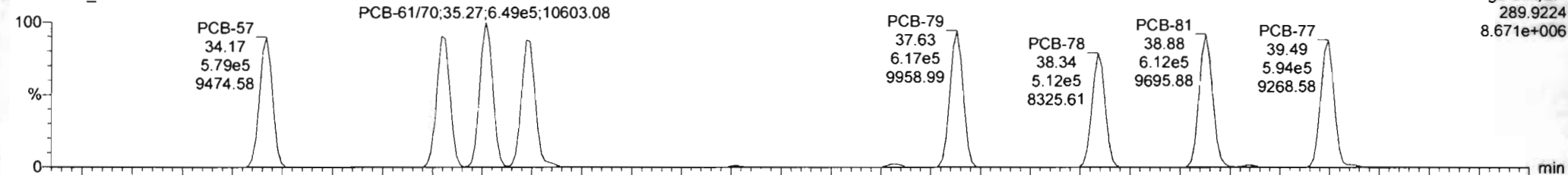
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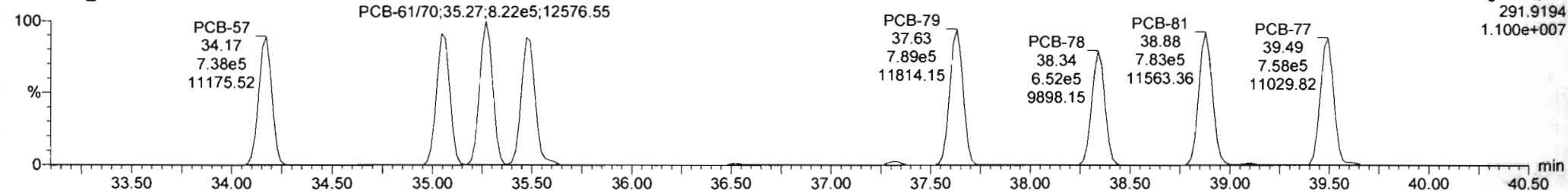
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PCB-68

200417R1\_9

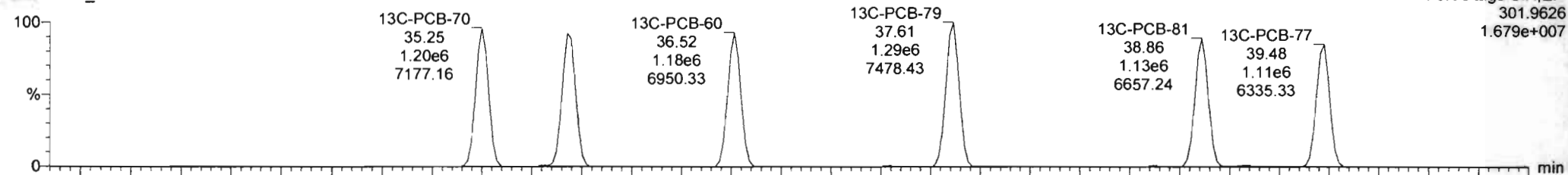


200417R1\_9

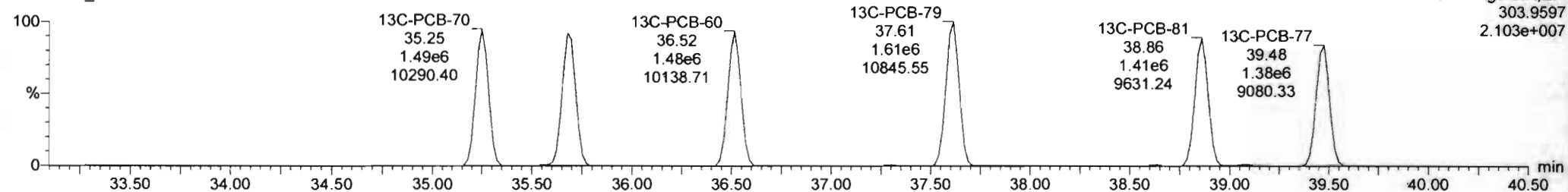


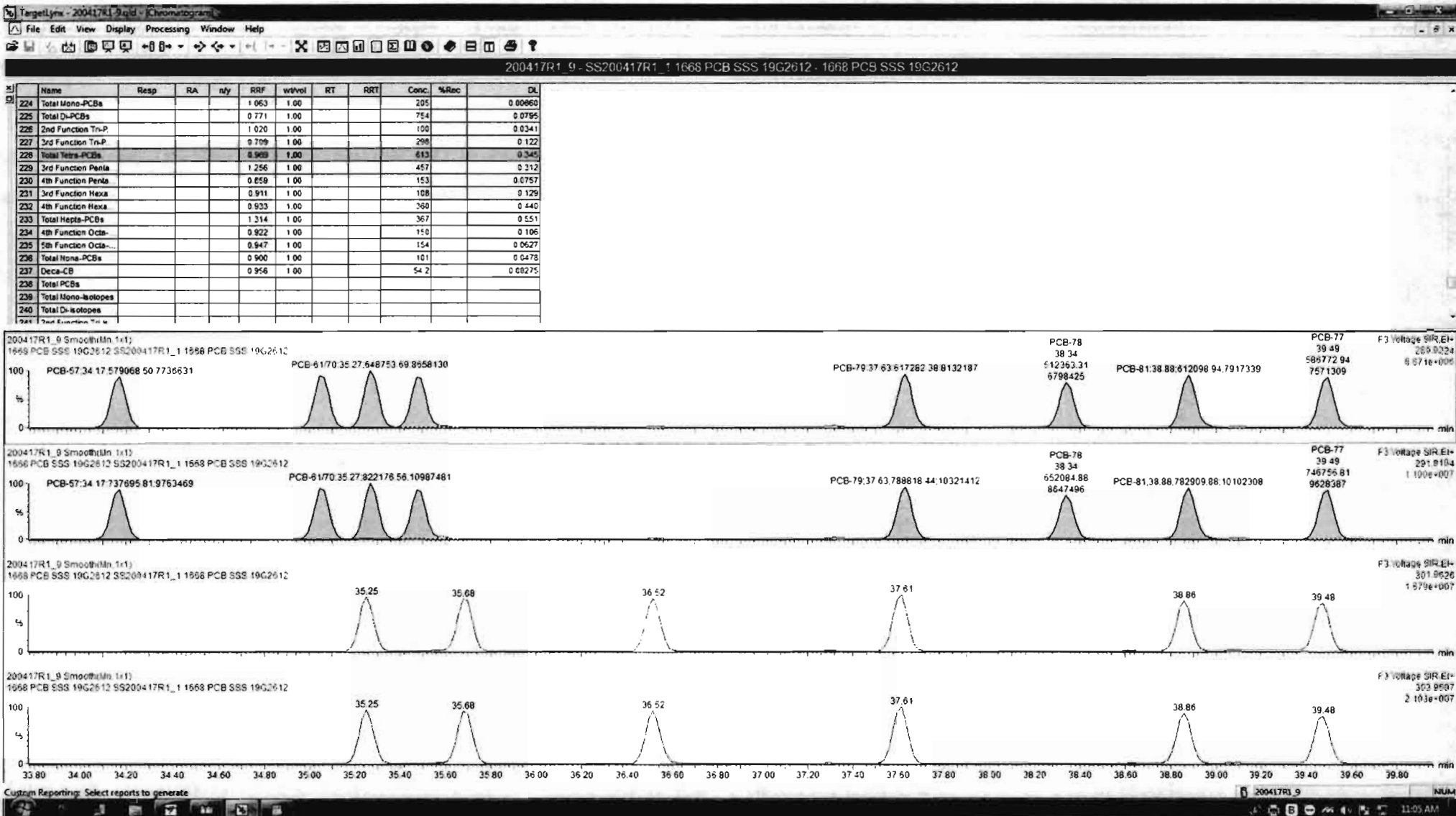
13C-PCB-60

200417R1\_9



200417R1\_9





Dataset: Untitled

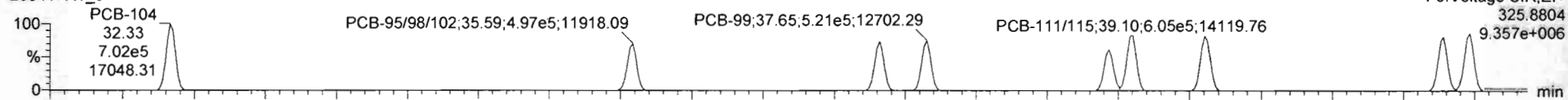
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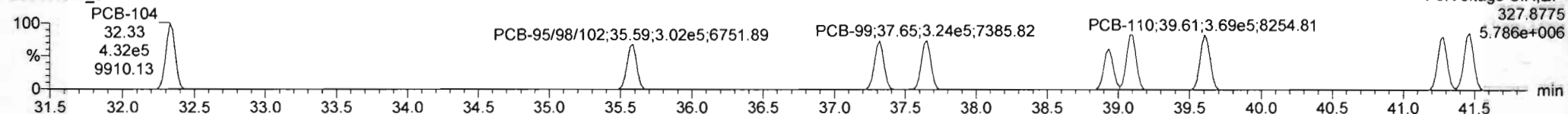
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**PCB-104**

200417R1\_9



200417R1\_9

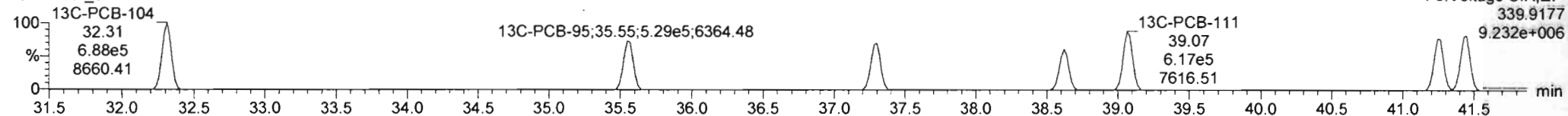


**13C-PCB-104**

200417R1\_9

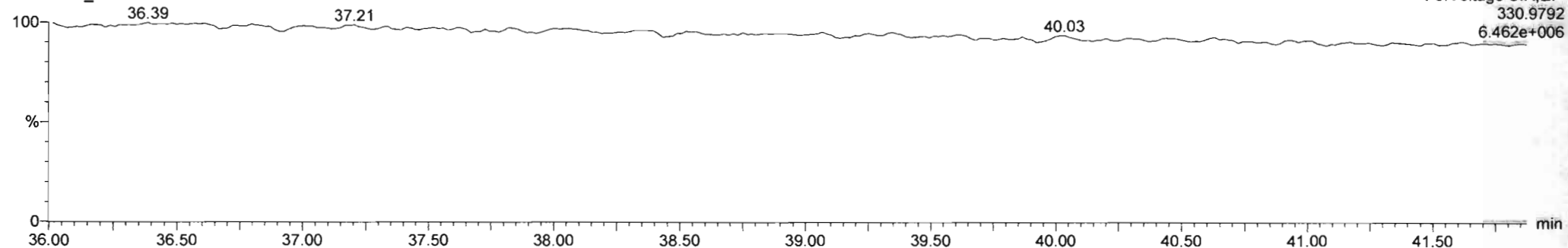


200417R1\_9



**PFK3c**

200417R1\_9



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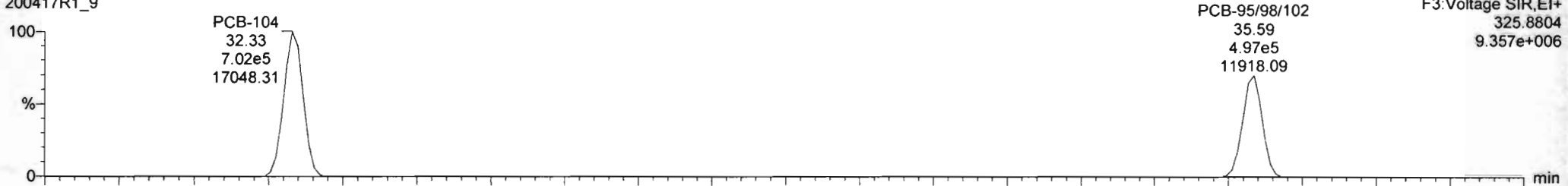
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Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

Name: 200417R1\_9, Date: 18-Apr-2020, Time: 00:26:52, ID: SS200417R1\_1 1668 PCB SSS 19G2612, Description: 1668 PCB SSS 19G2612

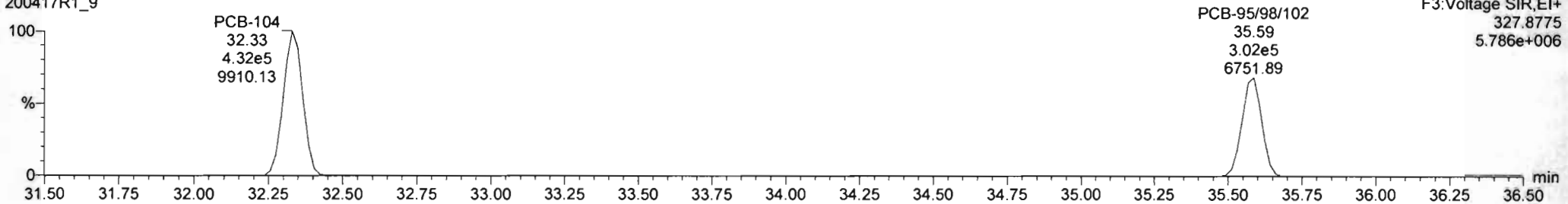
**PCB-96**

200417R1\_9



F3:Voltage SIR,EI+  
325.8804  
9.357e+006

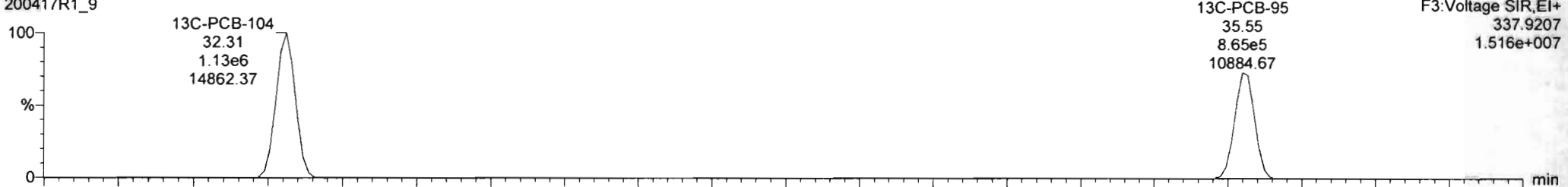
200417R1\_9



F3:Voltage SIR,EI+  
327.8775  
5.786e+006

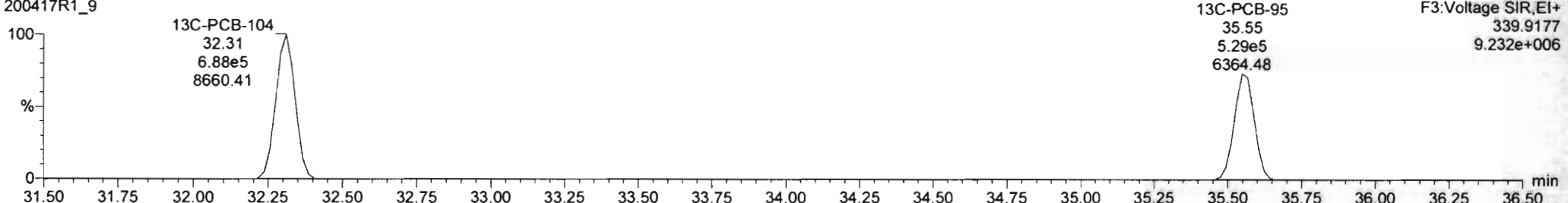
**13C-PCB-95**

200417R1\_9



F3:Voltage SIR,EI+  
337.9207  
1.516e+007

200417R1\_9



F3:Voltage SIR,EI+  
339.9177  
9.232e+006

Dataset: Untitled

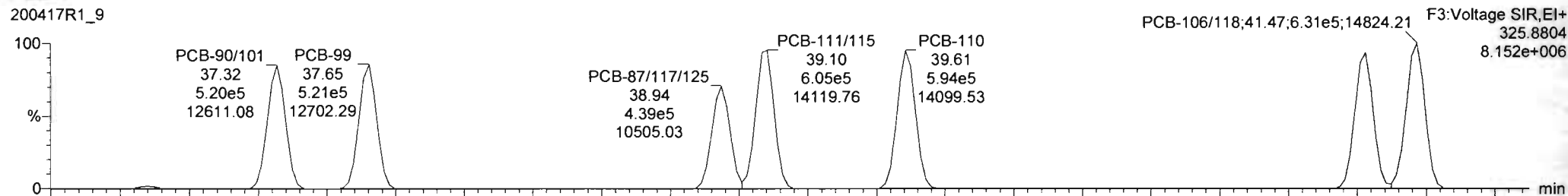
Last Altered: Monday, April 20, 2020 10:43:28 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

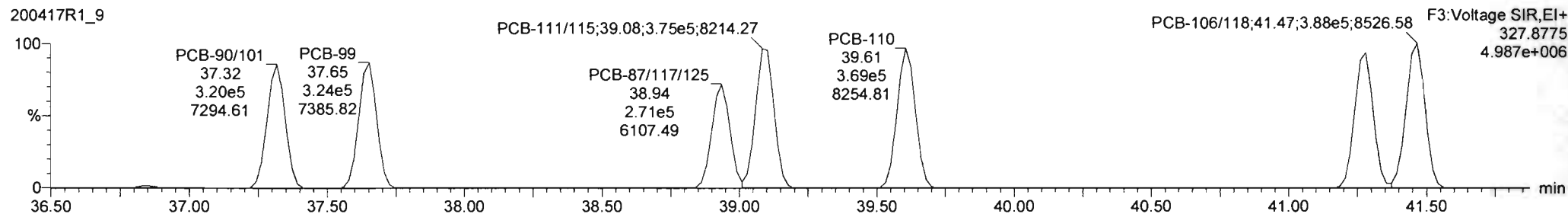
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PCB-119

200417R1\_9

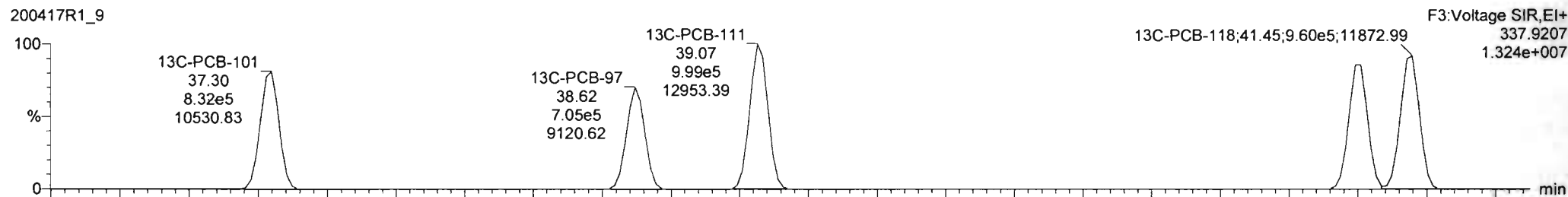


200417R1\_9

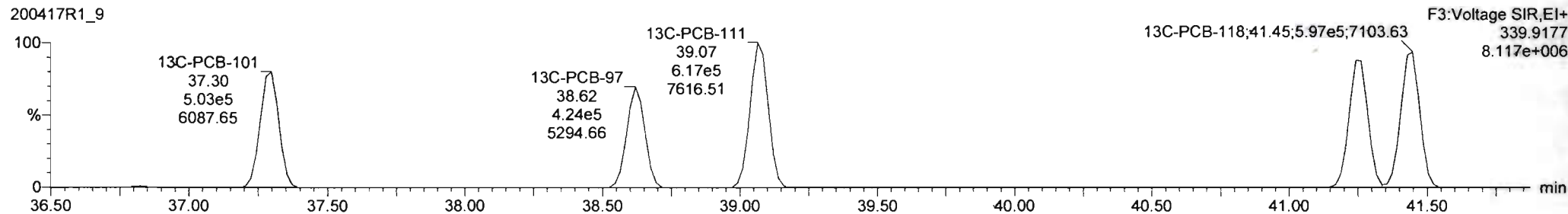


13C-PCB-111

200417R1\_9



200417R1\_9





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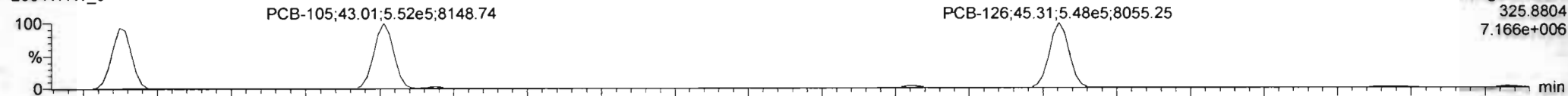
Last Altered: Monday, April 20, 2020 10:43:28 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

Name: 200417R1\_9, Date: 18-Apr-2020, Time: 00:26:52, ID: SS200417R1\_1 1668 PCB SSS 19G2612, Description: 1668 PCB SSS 19G2612

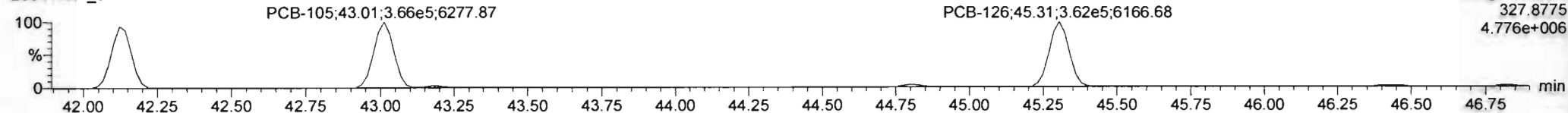
**PCB-114**

200417R1\_9



F4:Voltage SIR,EI+  
325.8804  
7.166e+006

200417R1\_9



F4:Voltage SIR,EI+  
327.8775  
4.776e+006

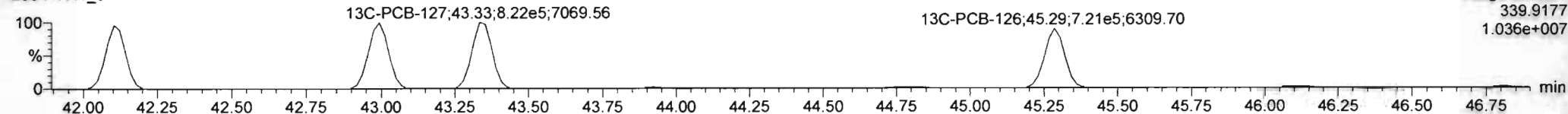
**13C-PCB-114**

200417R1\_9



F4:Voltage SIR,EI+  
337.9207  
1.622e+007

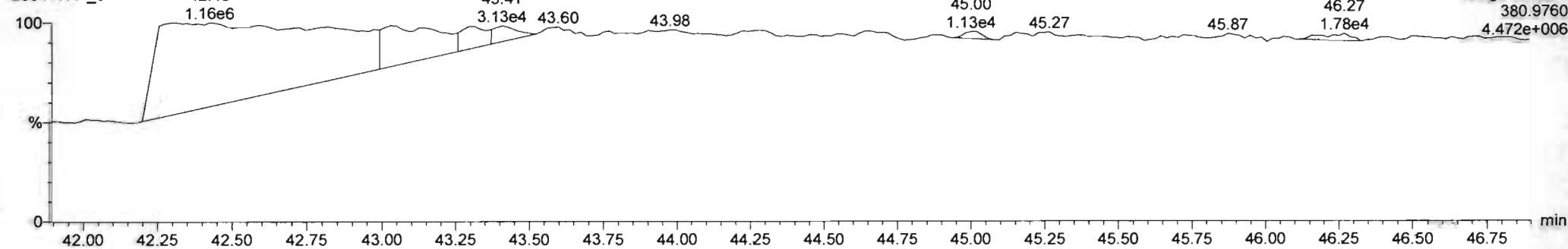
200417R1\_9



F4:Voltage SIR,EI+  
339.9177  
1.036e+007

**PFK4a**

200417R1\_9



F4:Voltage SIR,EI+  
380.9760  
4.472e+006

Dataset: Untitled

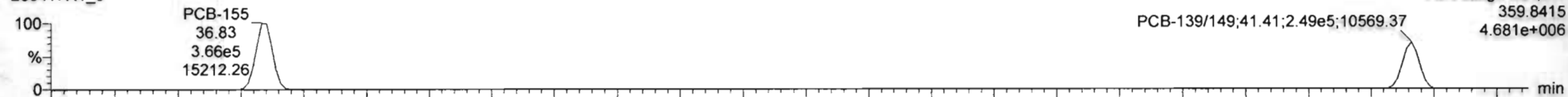
Last Altered: Monday, April 20, 2020 10:43:28 AM Pacific Daylight Time

Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

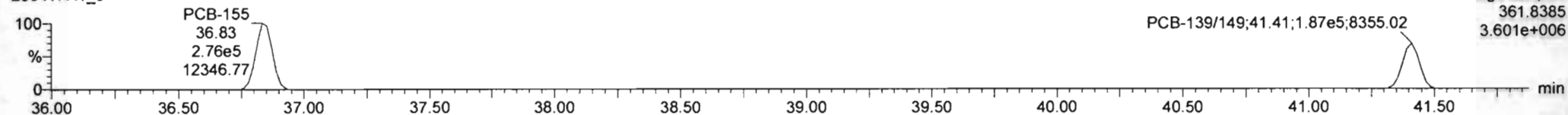
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**PCB-155**

200417R1\_9

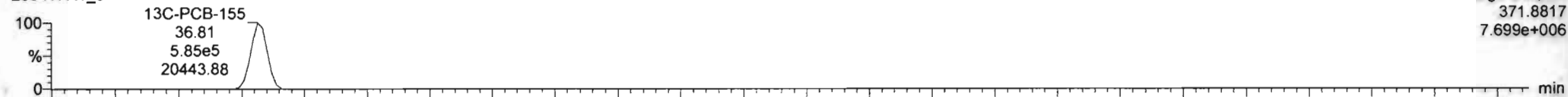


200417R1\_9

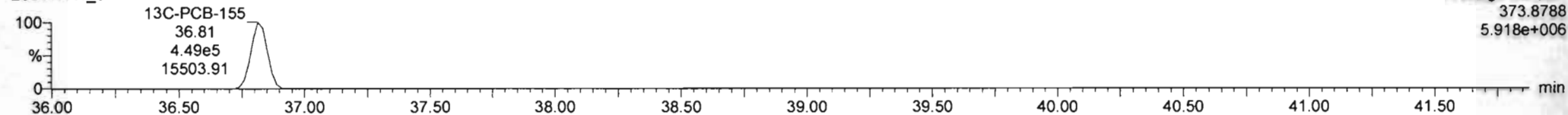


**13C-PCB-155**

200417R1\_9

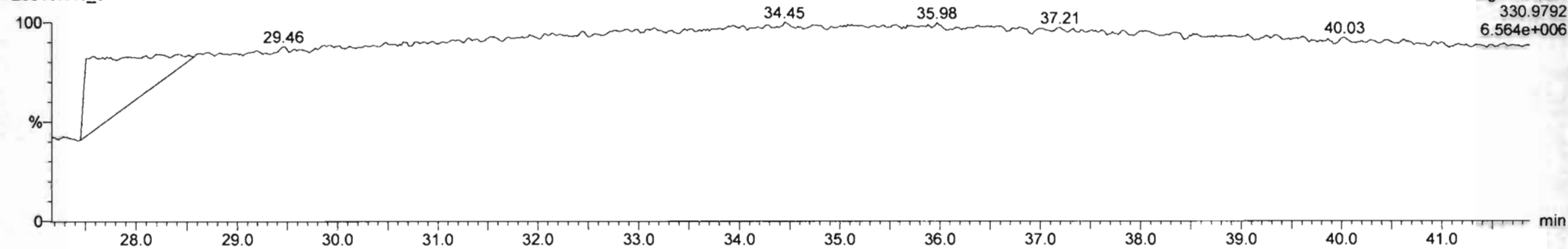


200417R1\_9



**PFK3d**

200417R1\_9



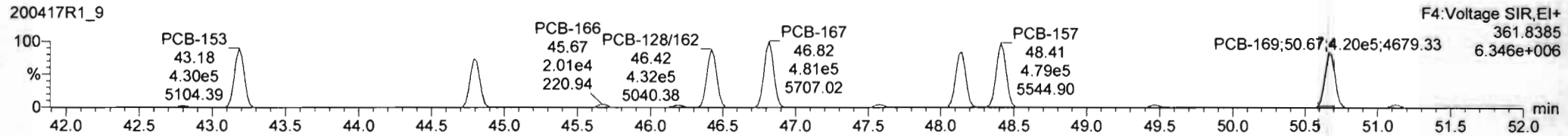
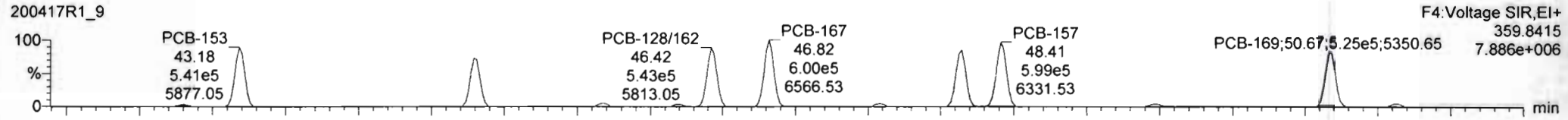
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Last Altered: Monday, April 20, 2020 10:43:28 AM Pacific Daylight Time

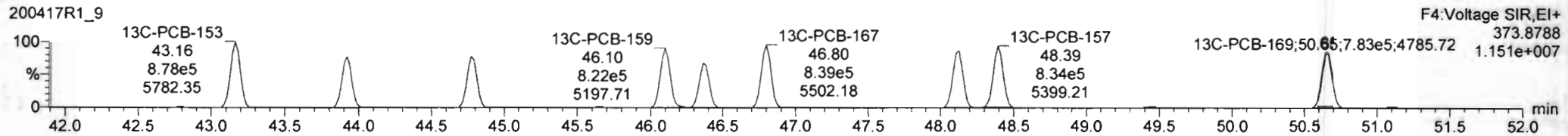
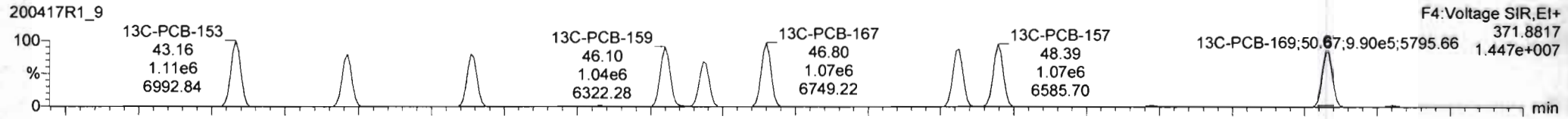
Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

Name: 200417R1\_9, Date: 18-Apr-2020, Time: 00:26:52, ID: SS200417R1\_1 1668 PCB SSS 19G2612, Description: 1668 PCB SSS 19G2612

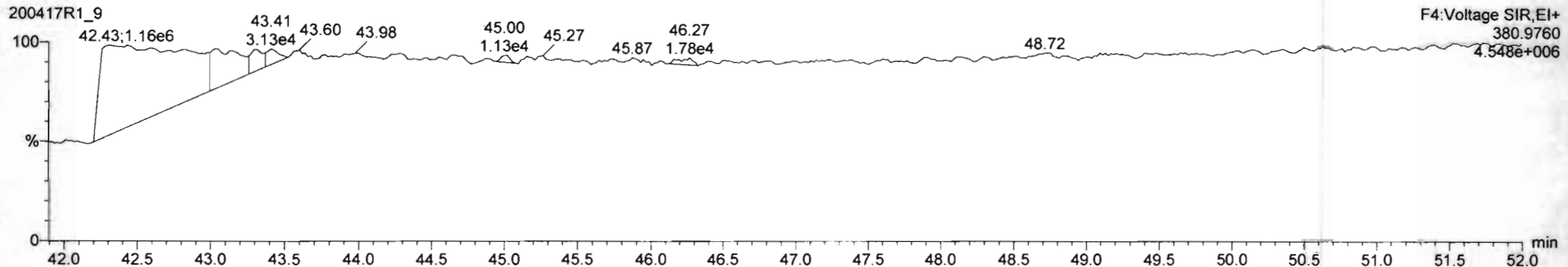
PCB-134/143



13C-PCB-153



PFK4b



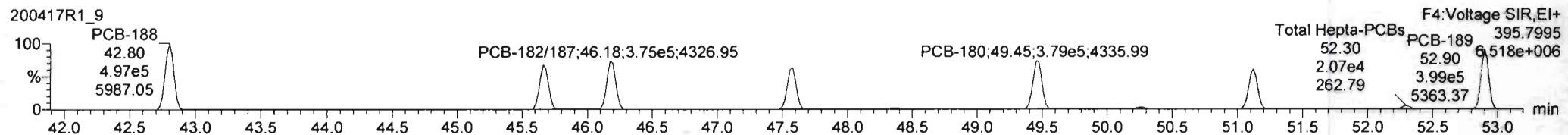
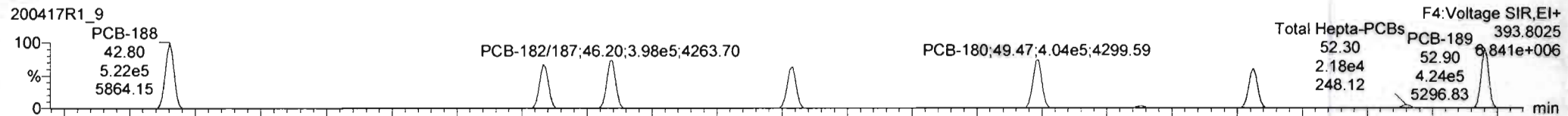
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Last Altered: Monday, April 20, 2020 10:43:28 AM Pacific Daylight Time

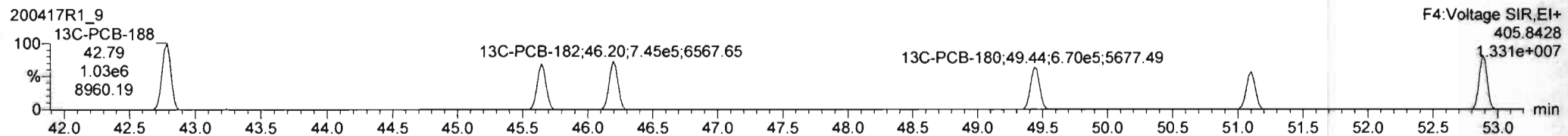
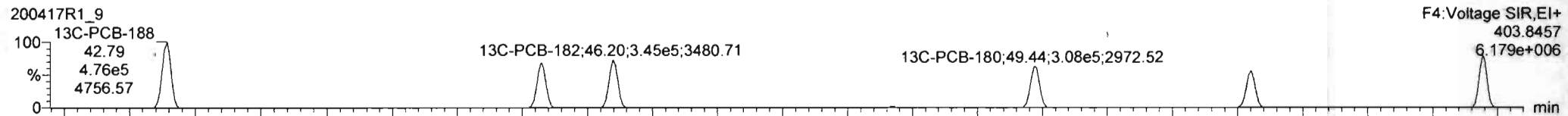
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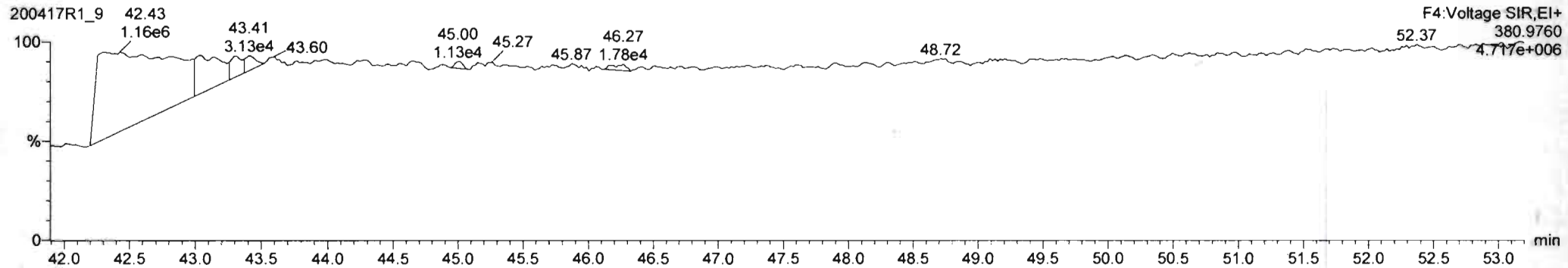
**PCB-188**



**13C-PCB-188**



**PFK4c**



Dataset: Untitled

Last Altered: Monday, April 20, 2020 10:43:28 AM Pacific Daylight Time

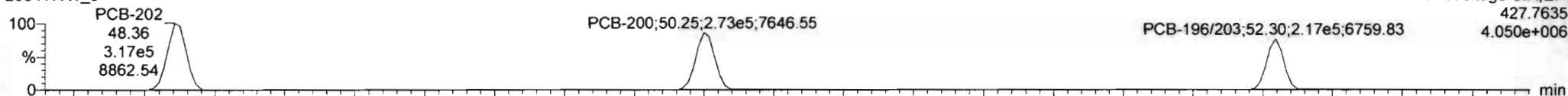
Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

Name: 200417R1\_9, Date: 18-Apr-2020, Time: 00:26:52, ID: SS200417R1\_1 1668 PCB SSS 19G2612, Description: 1668 PCB SSS 19G2612

**PCB-202**

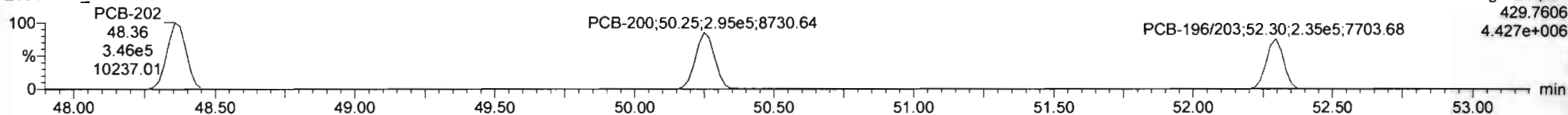
200417R1\_9

F4: Voltage SIR, EI+



200417R1\_9

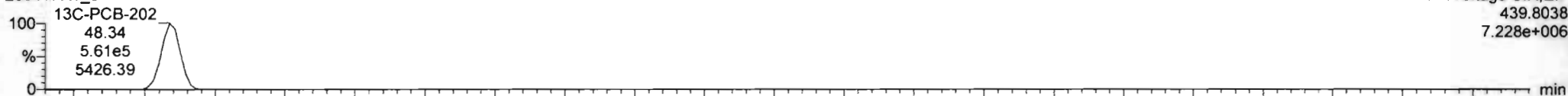
F4: Voltage SIR, EI+



**13C-PCB-202**

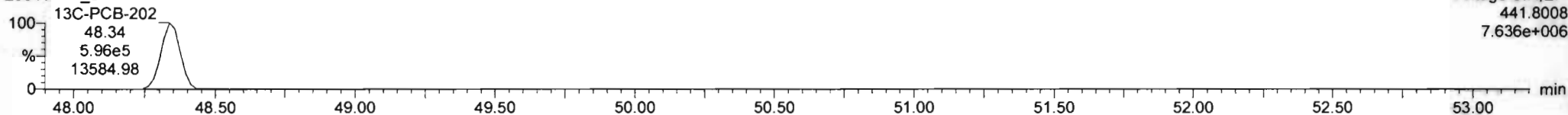
200417R1\_9

F4: Voltage SIR, EI+



200417R1\_9

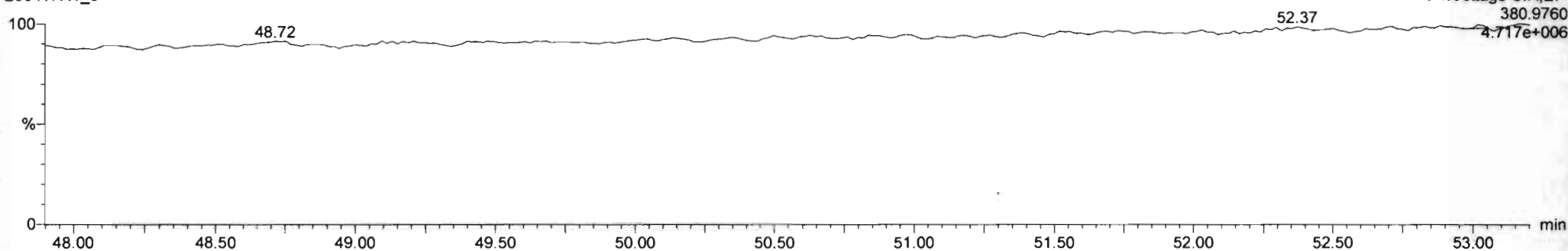
F4: Voltage SIR, EI+



**PFK4d**

200417R1\_9

F4: Voltage SIR, EI+



Dataset: Untitled

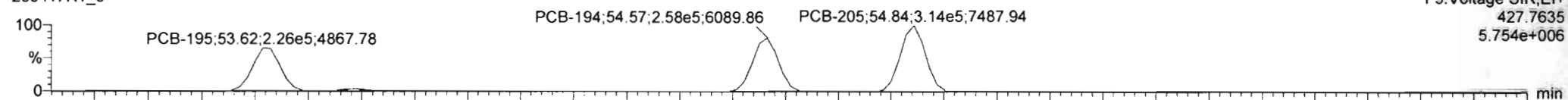
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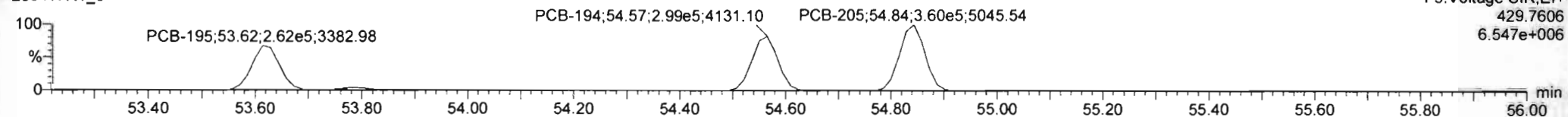
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**PCB-195**

200417R1\_9

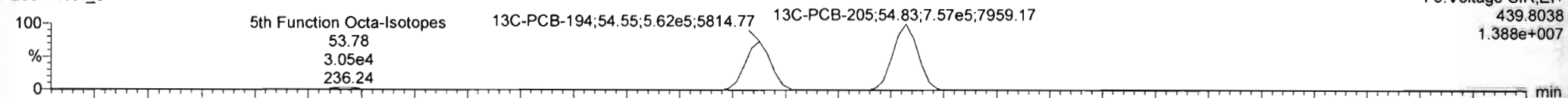


200417R1\_9

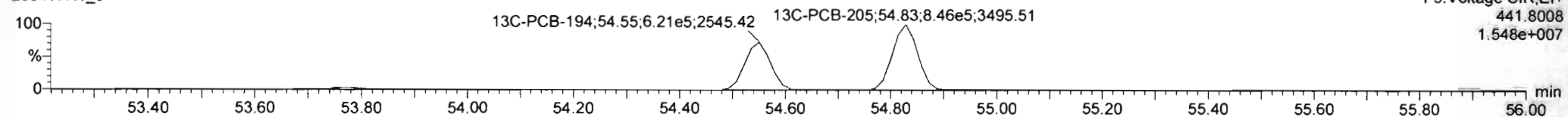


**13C-PCB-194**

200417R1\_9

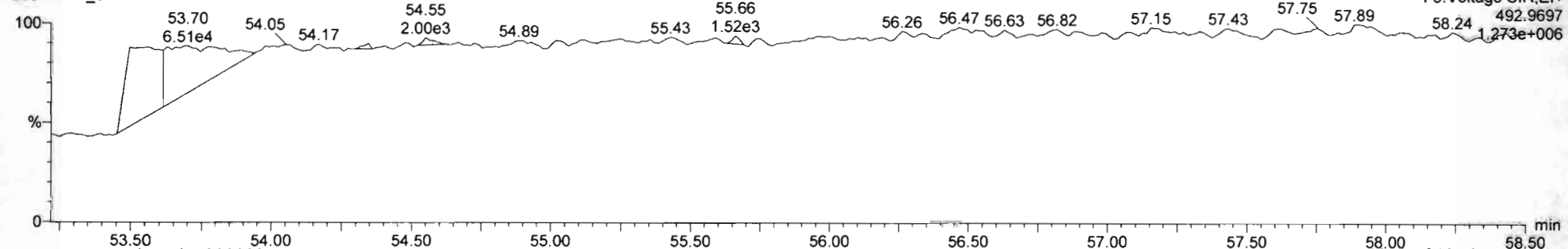


200417R1\_9



**PFK5**

200417R1\_9



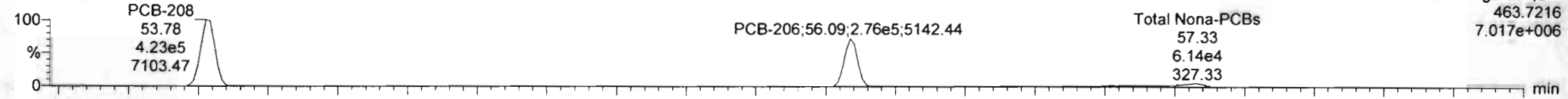
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Last Altered: Monday, April 20, 2020 10:43:28 AM Pacific Daylight Time  
Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

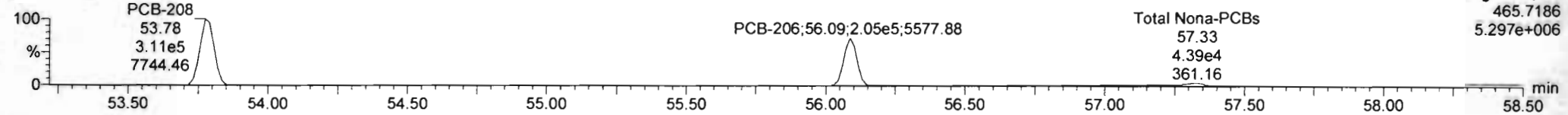
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**PCB-208**

200417R1\_9

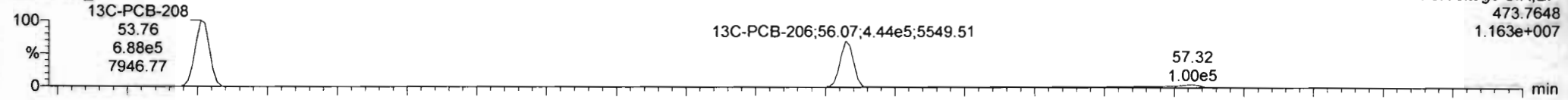


200417R1\_9

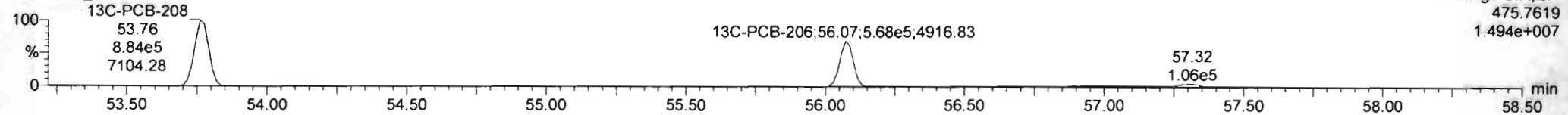


**13C-PCB-208**

200417R1\_9

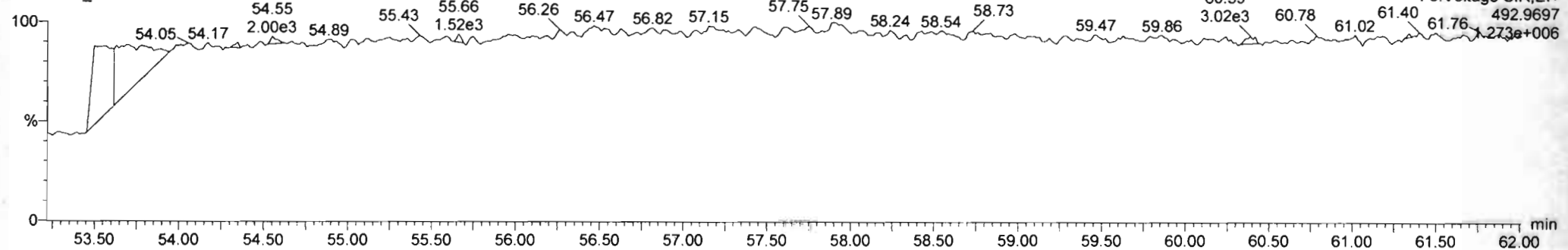


200417R1\_9



**PFK5a**

200417R1\_9



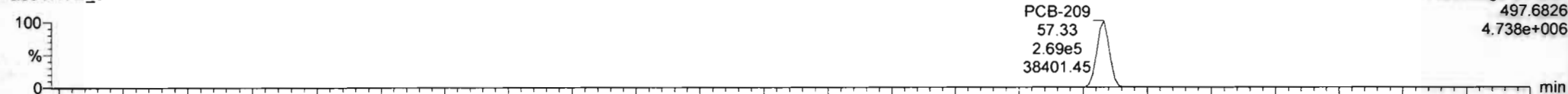
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Printed: Monday, April 20, 2020 10:43:31 AM Pacific Daylight Time

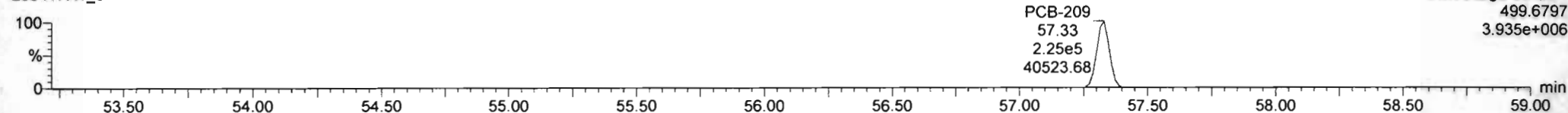
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**PCB-209**

200417R1\_9

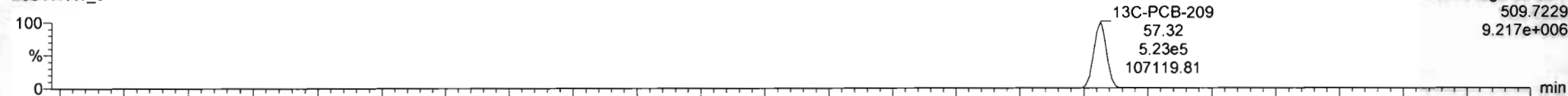


200417R1\_9

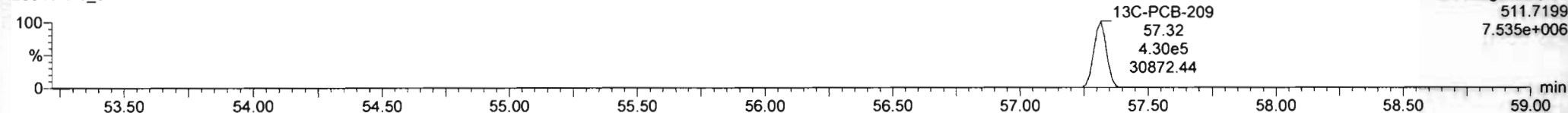


**13C-PCB-209**

200417R1\_9

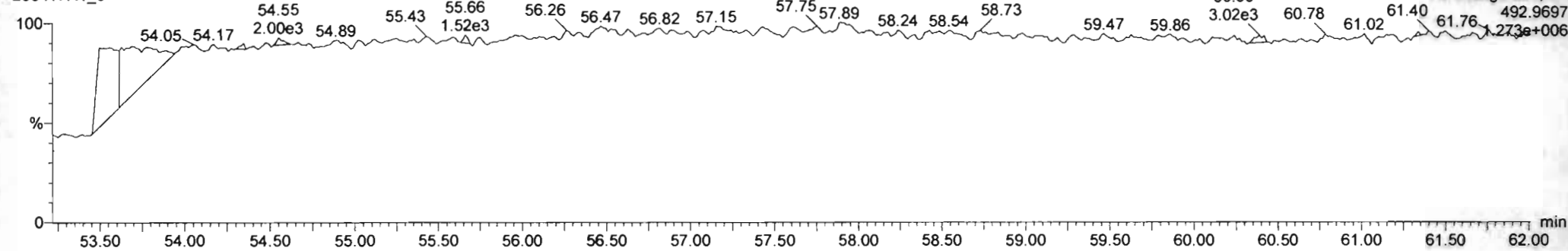


200417R1\_9



**PFK5b**

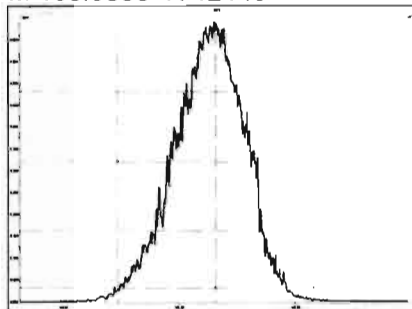
200417R1\_9



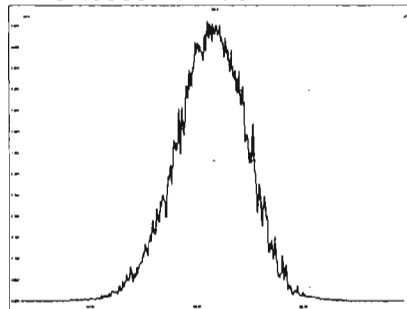


Printed: Saturday, April 18, 2020 01:38:31 Pacific Daylight Time

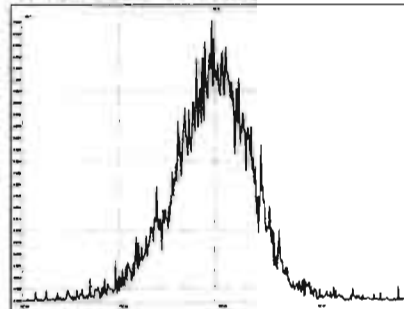
M 168.9888 R 12149



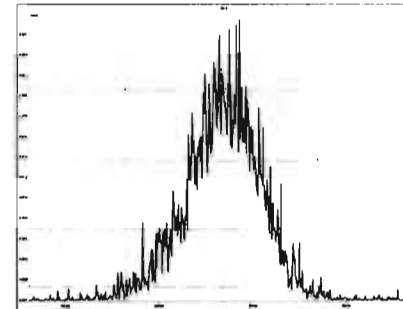
M 180.9888 R 11765



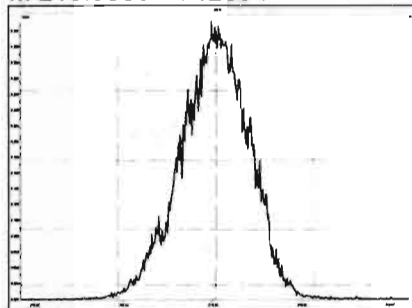
M 192.9888 R 11062



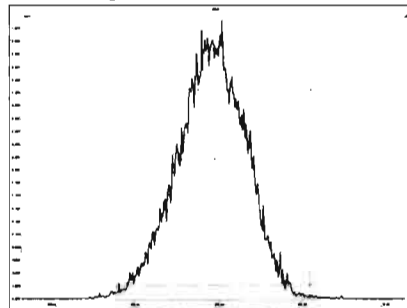
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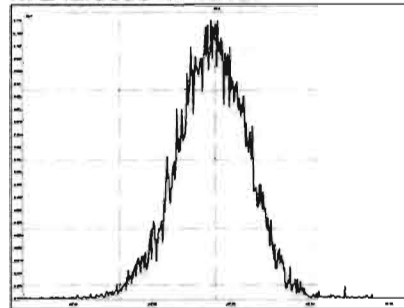
M 218.9856 R 12594



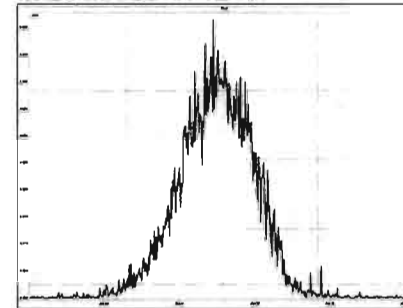
M 230.9856 R 12194



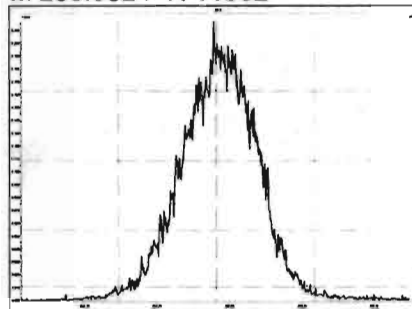
M 242.9856 R 12107



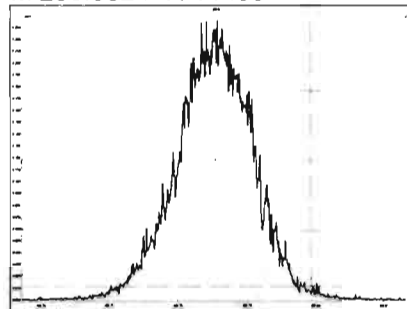
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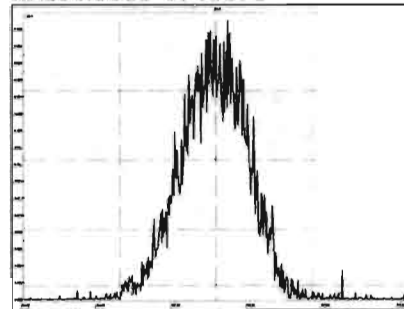
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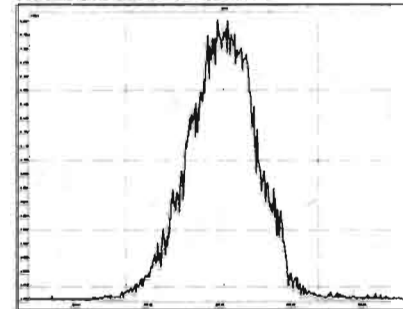
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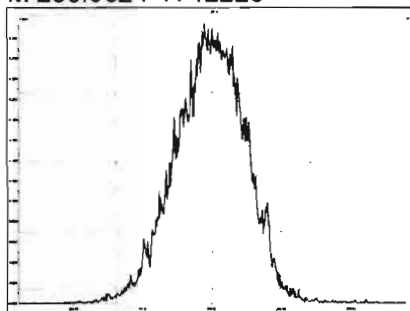


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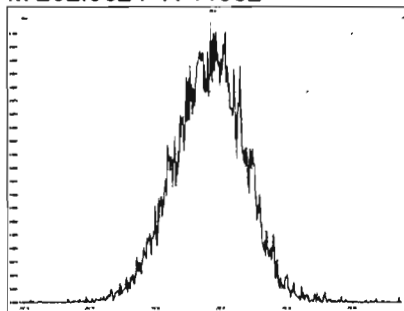


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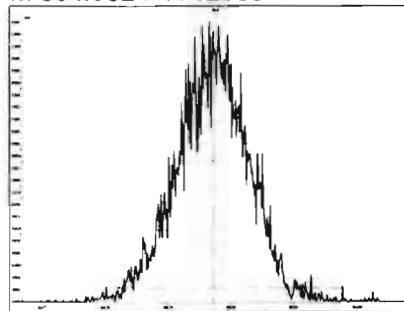
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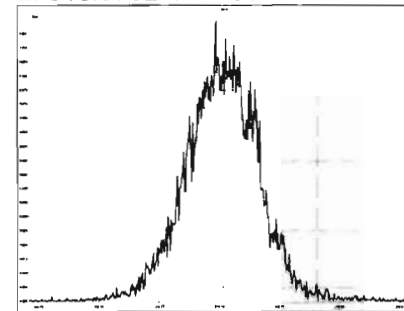
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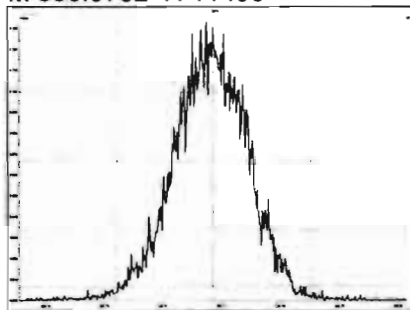
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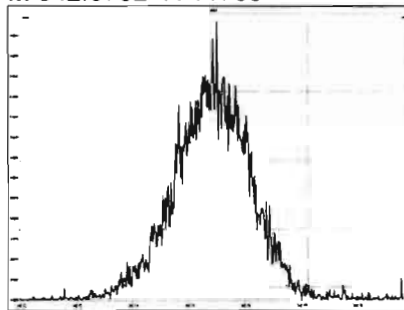
M 318.9792 R 12084



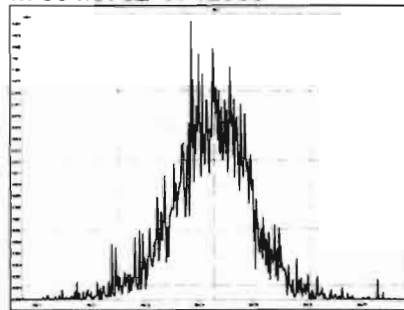
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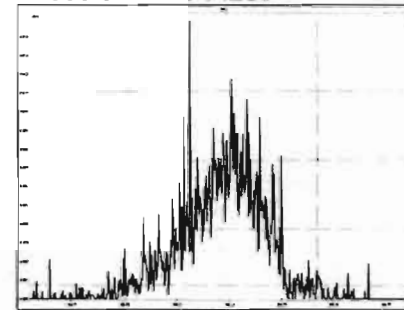
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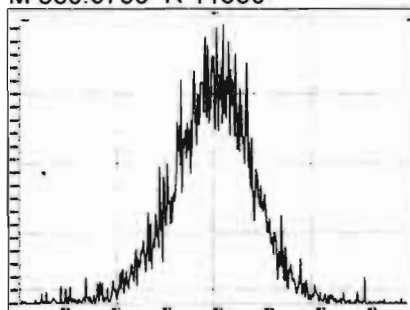
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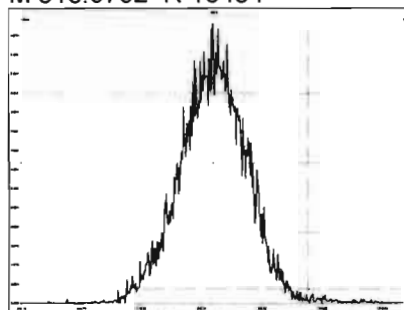
M 366.9792 R 14283



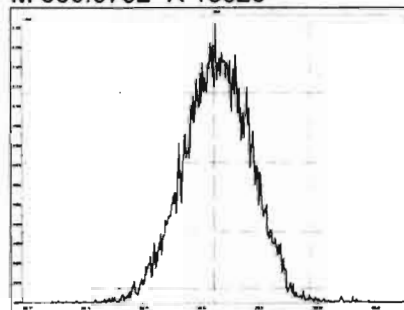
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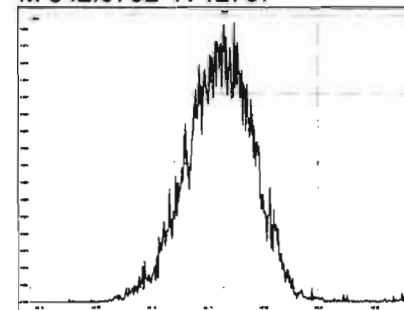
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M 330.9792 R 13023

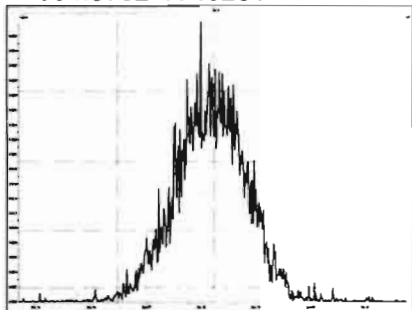


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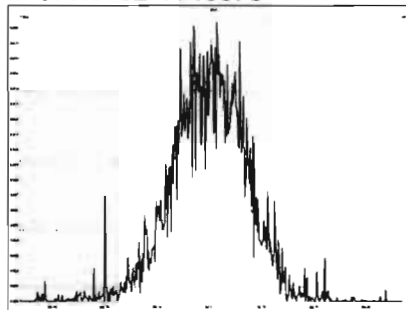


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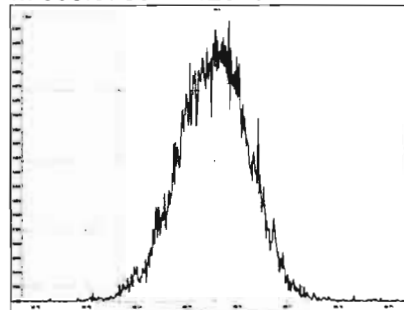
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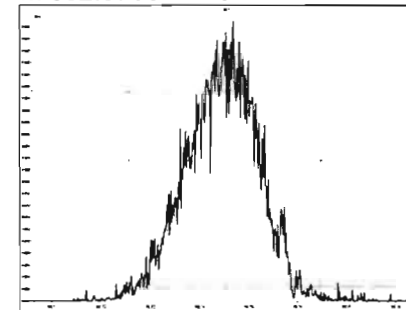
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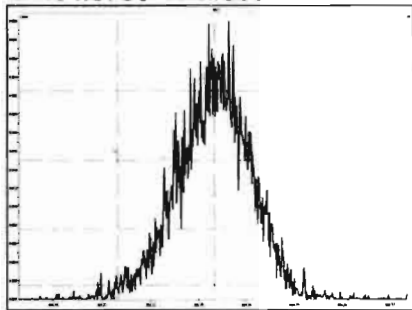
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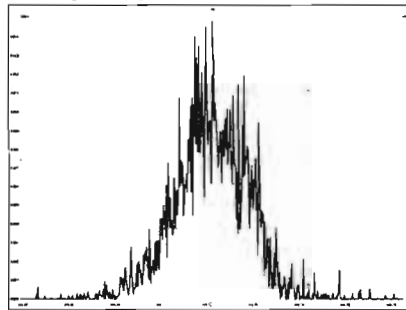
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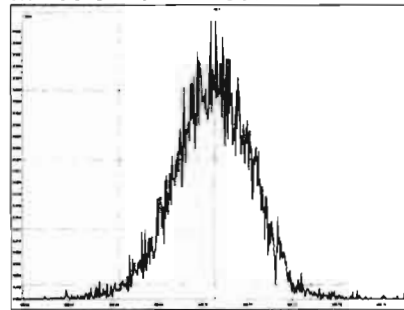
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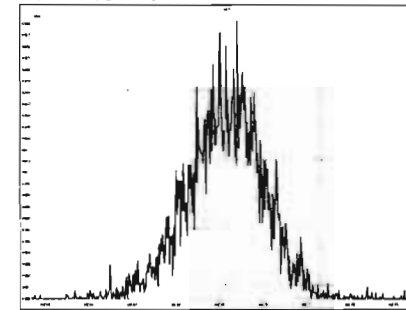
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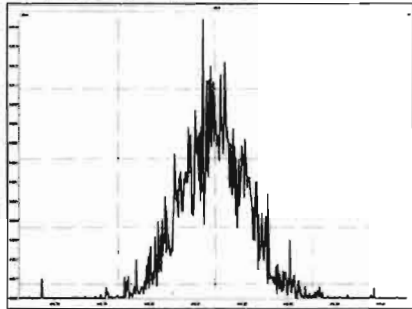
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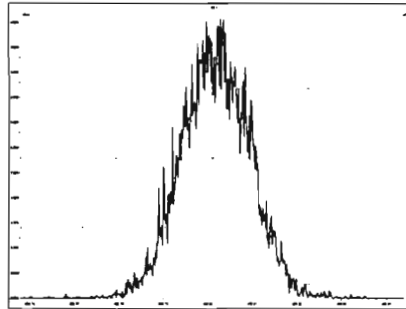
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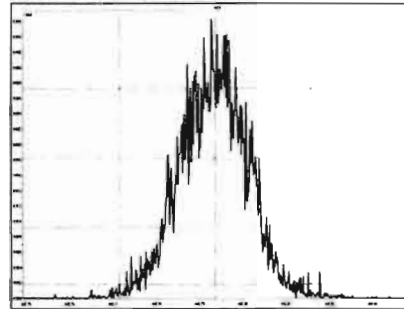
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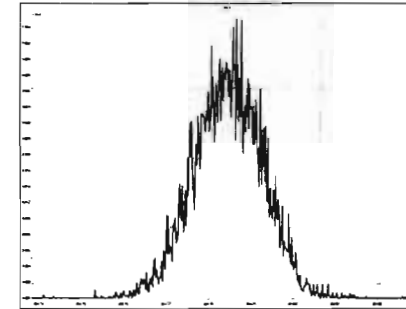
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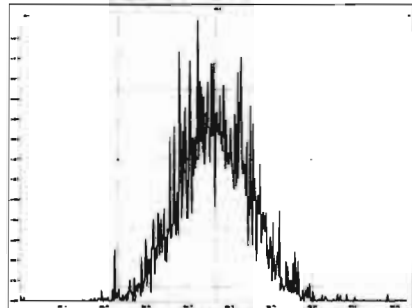


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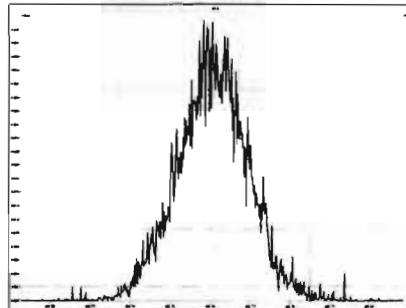


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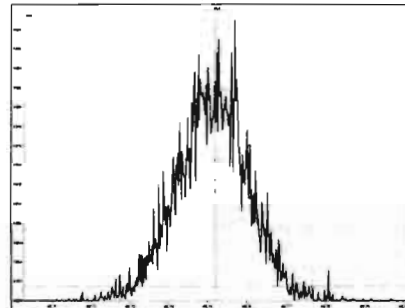
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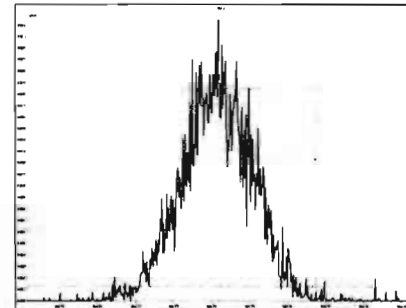
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M 492.9696 R 13006



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M 516.9697 R 14882

