

October 23, 2020

**Vista Work Order No. 2001995**

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 September 23, 2020 under your Project Name 'Gasco PDI 000029-02.64'.

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. 2001995

### Case Narrative

#### Sample Condition on Receipt:

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

#### 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-DIOXIN GC column.

##### Holding Times

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

##### Quality Control

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

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

As requested, a duplicate was performed on sample "PDI-068SC-A-07-08-200430". The RPDs were outside of the acceptance criteria for 1,2,3,6,7,8-HxCDD; 1,2,3,4,6,7,8-HpCDD; OCDD, 1,2,3,4,7,8-HxCDF; 1,2,3,6,7,8-HxCDF and 1,2,3,4,6,7,8-HpCDF.

The labeled standard recovery outside the method acceptance criteria is listed in the table below:

#### QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2001995-02	PDI-068SC-A-07-08-200430	EPA Method 1613B	13C-OCDD	H	14.2

H = Recovery was outside laboratory acceptance criteria.

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# Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2001995-01	PDI-048SC-A-08-11-200506	06-May-20 11:29	23-Sep-20 11:47	Amber Glass, 120 mL
2001995-02	PDI-068SC-A-07-08-200430	Dup30-Apr-20 08:45	23-Sep-20 11:47	Amber Glass, 120 mL
2001995-03	PDI-068SC-A-08-09-200430	30-Apr-20 08:45	23-Sep-20 11:47	Amber Glass, 120 mL
2001995-04	PDI-068SC-A-09-10-200430	30-Apr-20 08:45	23-Sep-20 11:47	Amber Glass, 120 mL
2001995-05	PDI-078SC-A-07-08-200505	05-May-20 10:50	23-Sep-20 11:47	Amber Glass, 120 mL
2001995-06	PDI-171SC-A-01-02-200521	21-May-20 15:15	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-07	PDI-171SC-A-02-03-200521	21-May-20 15:15	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-08	PDI-171SC-A-03-04-200521	21-May-20 15:15	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-09	PDI-171SC-A-04-05-200521	21-May-20 15:15	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-10	PDI-171SC-A-05-06-200521	21-May-20 15:15	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-11	PDI-171SC-A-06-07-200521	21-May-20 15:15	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-12	PDI-173SC-A-01-02-200521	21-May-20 11:45	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-13	PDI-173SC-A-02-03-200521	21-May-20 11:45	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-14	PDI-173SC-A-03-04-200521	21-May-20 11:45	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-15	PDI-174SC-A-01-02-200521	21-May-20 12:10	23-Sep-20 11:47	Clear Glass Jar, 120mL
2001995-16	PDI-174SC-A-02-03-200521	21-May-20 12:10	23-Sep-20 11:47	Clear Glass Jar, 120mL

## **ANALYTICAL RESULTS**

**Sample ID: Method Blank** **EPA Method 1613B**

Matrix: Solid	QC Batch: B0I0216	Lab Sample: B0I0216-BLK1
Sample Size: 10.0 g	Date Extracted: 28-Sep-2020 7:41	Date Analyzed: 30-Sep-20 13:46 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0530			IS 13C-2,3,7,8-TCDD	49.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0785			13C-1,2,3,7,8-PeCDD	58.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0760			13C-1,2,3,4,7,8-HxCDD	60.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0769			13C-1,2,3,6,7,8-HxCDD	62.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0722			13C-1,2,3,7,8,9-HxCDD	68.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0882			13C-1,2,3,4,6,7,8-HpCDD	68.1	23 - 140	
OCDD	ND	0.328			13C-OCDD	63.6	17 - 157	
2,3,7,8-TCDF	ND	0.0485			13C-2,3,7,8-TCDF	46.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0499			13C-1,2,3,7,8-PeCDF	60.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0449			13C-2,3,4,7,8-PeCDF	60.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0655			13C-1,2,3,4,7,8-HxCDF	60.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0597			13C-1,2,3,6,7,8-HxCDF	60.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0648			13C-2,3,4,6,7,8-HxCDF	64.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0815			13C-1,2,3,7,8,9-HxCDF	63.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0715			13C-1,2,3,4,6,7,8-HpCDF	66.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0647			13C-1,2,3,4,7,8,9-HpCDF	64.5	26 - 138	
OCDF	ND	0.152			13C-OCDF	61.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	44.3	35 - 197	

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

TEQMinWHO2005Dioxin 0.00

<b>TOTALS</b>		
Total TCDD	ND	0.0530
Total PeCDD	ND	0.0785
Total HxCDD	ND	0.0769
Total HpCDD	ND	0.0882
Total TCDF	ND	0.0485
Total PeCDF	ND	0.0499
Total HxCDF	ND	0.0815
Total HpCDF	ND	0.0715

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: B0I0216		Lab Sample: B0I0216-BS1			
Sample Size: 10.0 g		Date Extracted: 28-Sep-2020 7:41		Date Analyzed: 30-Sep-20 11:29	Column: ZB-DIOXIN		
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	19.2	20.0	95.8	67 - 158	IS 13C-2,3,7,8-TCDD	59.8	20 - 175
1,2,3,7,8-PeCDD	97.5	100	97.5	70 - 142	13C-1,2,3,7,8-PeCDD	80.6	21 - 227
1,2,3,4,7,8-HxCDD	106	100	106	70 - 164	13C-1,2,3,4,7,8-HxCDD	82.4	21 - 193
1,2,3,6,7,8-HxCDD	107	100	107	76 - 134	13C-1,2,3,6,7,8-HxCDD	84.9	25 - 163
1,2,3,7,8,9-HxCDD	108	100	108	64 - 162	13C-1,2,3,7,8,9-HxCDD	89.0	21 - 193
1,2,3,4,6,7,8-HpCDD	111	100	111	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	91.1	26 - 166
OCDD	214	200	107	78 - 144	13C-OCDD	87.4	13 - 199
2,3,7,8-TCDF	21.8	20.0	109	75 - 158	13C-2,3,7,8-TCDF	55.5	22 - 152
1,2,3,7,8-PeCDF	107	100	107	80 - 134	13C-1,2,3,7,8-PeCDF	76.7	21 - 192
2,3,4,7,8-PeCDF	106	100	106	68 - 160	13C-2,3,4,7,8-PeCDF	78.5	13 - 328
1,2,3,4,7,8-HxCDF	116	100	116	72 - 134	13C-1,2,3,4,7,8-HxCDF	81.9	19 - 202
1,2,3,6,7,8-HxCDF	117	100	117	84 - 130	13C-1,2,3,6,7,8-HxCDF	84.2	21 - 159
2,3,4,6,7,8-HxCDF	117	100	117	70 - 156	13C-2,3,4,6,7,8-HxCDF	87.8	22 - 176
1,2,3,7,8,9-HxCDF	116	100	116	78 - 130	13C-1,2,3,7,8,9-HxCDF	85.8	17 - 205
1,2,3,4,6,7,8-HpCDF	116	100	116	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	94.8	21 - 158
1,2,3,4,7,8,9-HpCDF	117	100	117	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	93.9	20 - 186
OCDF	233	200	116	63 - 170	13C-OCDF	86.9	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	54.0	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: B0J0073 Date Extracted: 07-Oct-2020 9:53		Lab Sample: B0J0073-BLK1 Date Analyzed: 10-Oct-20 01:07 Column: ZB-DIOXIN					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0556			IS 13C-2,3,7,8-TCDD	97.3	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0788			13C-1,2,3,7,8-PeCDD	109	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.117			13C-1,2,3,4,7,8-HxCDD	94.9	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.121			13C-1,2,3,6,7,8-HxCDD	95.7	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.124			13C-1,2,3,7,8,9-HxCDD	96.4	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.105			13C-1,2,3,4,6,7,8-HpCDD	98.8	23 - 140		
OCDD	ND	0.441			13C-OCDD	84.4	17 - 157		
2,3,7,8-TCDF	ND	0.0445			13C-2,3,7,8-TCDF	98.5	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0753			13C-1,2,3,7,8-PeCDF	104	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0752			13C-2,3,4,7,8-PeCDF	98.8	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0968			13C-1,2,3,4,7,8-HxCDF	93.0	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0950			13C-1,2,3,6,7,8-HxCDF	90.9	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.108			13C-2,3,4,6,7,8-HxCDF	92.9	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.143			13C-1,2,3,7,8,9-HxCDF	96.4	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.140			13C-1,2,3,4,6,7,8-HpCDF	87.0	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.133			13C-1,2,3,4,7,8,9-HpCDF	86.2	26 - 138		
OCDF	ND	0.273			13C-OCDF	79.7	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	97.7	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		0.00		
<b>TOTALS</b>									
Total TCDD	ND	0.0556							
Total PeCDD	ND	0.0788							
Total HxCDD	ND	0.124							
Total HpCDD	ND	0.105							
Total TCDF	ND	0.0445							
Total PeCDF	ND	0.0753							
Total HxCDF	ND	0.143							
Total HpCDF	ND	0.140							

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: B0J0073	Lab Sample: B0J0073-BS1					
Sample Size: 10.0 g	Date Extracted: 07-Oct-2020 9:53	Date Analyzed: 09-Oct-20 22:56	Column: ZB-DIOXIN				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	18.9	20.0	94.5	67 - 158	IS 13C-2,3,7,8-TCDD	95.8	20 - 175
1,2,3,7,8-PeCDD	101	100	101	70 - 142	13C-1,2,3,7,8-PeCDD	104	21 - 227
1,2,3,4,7,8-HxCDD	99.7	100	99.7	70 - 164	13C-1,2,3,4,7,8-HxCDD	92.1	21 - 193
1,2,3,6,7,8-HxCDD	97.5	100	97.5	76 - 134	13C-1,2,3,6,7,8-HxCDD	93.0	25 - 163
1,2,3,7,8,9-HxCDD	98.5	100	98.5	64 - 162	13C-1,2,3,7,8,9-HxCDD	92.4	21 - 193
1,2,3,4,6,7,8-HpCDD	95.7	100	95.7	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	94.6	26 - 166
OCDD	192	200	96.0	78 - 144	13C-OCDD	89.5	13 - 199
2,3,7,8-TCDF	19.2	20.0	96.1	75 - 158	13C-2,3,7,8-TCDF	96.7	22 - 152
1,2,3,7,8-PeCDF	102	100	102	80 - 134	13C-1,2,3,7,8-PeCDF	96.8	21 - 192
2,3,4,7,8-PeCDF	98.5	100	98.5	68 - 160	13C-2,3,4,7,8-PeCDF	92.3	13 - 328
1,2,3,4,7,8-HxCDF	99.1	100	99.1	72 - 134	13C-1,2,3,4,7,8-HxCDF	90.6	19 - 202
1,2,3,6,7,8-HxCDF	102	100	102	84 - 130	13C-1,2,3,6,7,8-HxCDF	87.5	21 - 159
2,3,4,6,7,8-HxCDF	99.7	100	99.7	70 - 156	13C-2,3,4,6,7,8-HxCDF	88.4	22 - 176
1,2,3,7,8,9-HxCDF	98.6	100	98.6	78 - 130	13C-1,2,3,7,8,9-HxCDF	93.1	17 - 205
1,2,3,4,6,7,8-HpCDF	95.9	100	95.9	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	85.0	21 - 158
1,2,3,4,7,8,9-HpCDF	99.9	100	99.9	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	81.1	20 - 186
OCDF	195	200	97.7	63 - 170	13C-OCDF	87.4	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	93.3	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-048SC-A-08-11-200506** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-01      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 18.5 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 06-May-2020 11:29	% Solids: 54.3	Date Analyzed : 03-Oct-20 03:48 Column: ZB-DIOXIN 30-Sep-20 16:01 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.627		IS 13C-2,3,7,8-TCDD	96.4	25 - 164	
1,2,3,7,8-PeCDD	2.03			J	13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	4.49				13C-1,2,3,4,7,8-HxCDD	93.8	32 - 141	
1,2,3,6,7,8-HxCDD	29.7				13C-1,2,3,6,7,8-HxCDD	94.5	28 - 130	
1,2,3,7,8,9-HxCDD	11.4				13C-1,2,3,7,8,9-HxCDD	95.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	1390				13C-1,2,3,4,6,7,8-HpCDD	103	23 - 140	
OCDD	10200			D	13C-OCDD	69.9	17 - 157	D
2,3,7,8-TCDF	102				13C-2,3,7,8-TCDF	92.9	24 - 169	
1,2,3,7,8-PeCDF	109				13C-1,2,3,7,8-PeCDF	112	24 - 185	
2,3,4,7,8-PeCDF	71.7				13C-2,3,4,7,8-PeCDF	115	21 - 178	
1,2,3,4,7,8-HxCDF	138				13C-1,2,3,4,7,8-HxCDF	93.6	26 - 152	
1,2,3,6,7,8-HxCDF	34.5				13C-1,2,3,6,7,8-HxCDF	92.6	26 - 123	
2,3,4,6,7,8-HxCDF	13.6				13C-2,3,4,6,7,8-HxCDF	91.0	28 - 136	
1,2,3,7,8,9-HxCDF	17.6				13C-1,2,3,7,8,9-HxCDF	93.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	123				13C-1,2,3,4,6,7,8-HpCDF	94.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	26.0				13C-1,2,3,4,7,8,9-HpCDF	98.4	26 - 138	
OCDF	483				13C-OCDF	87.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.5	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
TEQMinWHO2005Dioxin      80.5

<b>TOTALS</b>		
Total TCDD	24.5	26.7
Total PeCDD	43.8	47.2
Total HxCDD	577	
Total HpCDD	3900	
Total TCDF	288	311
Total PeCDF	381	387
Total HxCDF	380	
Total HpCDF	579	

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-068SC-A-07-08-200430** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-02      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 16.9 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 30-Apr-2020 8:45	% Solids: 59.4	Date Analyzed : 30-Sep-20 16:44      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.285		IS 13C-2,3,7,8-TCDD	87.2	25 - 164	
1,2,3,7,8-PeCDD	1.20			J	13C-1,2,3,7,8-PeCDD	95.7	25 - 181	
1,2,3,4,7,8-HxCDD	0.313			J	13C-1,2,3,4,7,8-HxCDD	76.2	32 - 141	
1,2,3,6,7,8-HxCDD	1.43			J	13C-1,2,3,6,7,8-HxCDD	75.9	28 - 130	
1,2,3,7,8,9-HxCDD	0.773			J	13C-1,2,3,7,8,9-HxCDD	72.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	16.8				13C-1,2,3,4,6,7,8-HpCDD	56.7	23 - 140	
OCDD	287				13C-OCDD	14.2	17 - 157	H
2,3,7,8-TCDF	0.687				13C-2,3,7,8-TCDF	85.3	24 - 169	
1,2,3,7,8-PeCDF	0.414			J	13C-1,2,3,7,8-PeCDF	99.7	24 - 185	
2,3,4,7,8-PeCDF	6.25				13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	1.79			J	13C-1,2,3,4,7,8-HxCDF	78.2	26 - 152	
1,2,3,6,7,8-HxCDF	1.41			J	13C-1,2,3,6,7,8-HxCDF	77.0	26 - 123	
2,3,4,6,7,8-HxCDF	3.00				13C-2,3,4,6,7,8-HxCDF	69.6	28 - 136	
1,2,3,7,8,9-HxCDF	0.421			J	13C-1,2,3,7,8,9-HxCDF	74.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	4.70				13C-1,2,3,4,6,7,8-HpCDF	66.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.570			J	13C-1,2,3,4,7,8,9-HpCDF	65.5	26 - 138	
OCDF	3.17			J	13C-OCDF	28.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	78.2	35 - 197	

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

TEQMinWHO2005Dioxin      4.38

<b>TOTALS</b>		
Total TCDD	5.96	6.47
Total PeCDD	10.2	13.2
Total HxCDD	18.0	
Total HpCDD	44.6	
Total TCDF	42.4	44.3
Total PeCDF	75.8	
Total HxCDF	41.4	
Total HpCDF	10.4	

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

LCL-UCL- Lower control limit - upper control limit  
The results are reported in dry weight. 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-068SC-A-07-08-200430	QC Batch: B0I0216	Lab Sample: B0I0216-DUP1
Source LabNumber: 2001995-02	Date Extracted: 28-Sep-2020 7:41	Date Analyzed: 30-Sep-20 17:28 Column: ZB-DIOXIN
Matrix: Solid		
Sample Size: 16.9 g		

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.418		IS 13C-2,3,7,8-TCDD	52.8	25 - 164	
1,2,3,7,8-PeCDD	1.44			J	13C-1,2,3,7,8-PeCDD	71.8	25 - 181	
1,2,3,4,7,8-HxCDD	0.365			J	13C-1,2,3,4,7,8-HxCDD	68.0	32 - 141	
1,2,3,6,7,8-HxCDD	1.84			J	13C-1,2,3,6,7,8-HxCDD	72.3	28 - 130	
1,2,3,7,8,9-HxCDD	0.965			J	13C-1,2,3,7,8,9-HxCDD	76.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	12.1				13C-1,2,3,4,6,7,8-HpCDD	68.2	23 - 140	
OCDD	191				13C-OCDD	36.6	17 - 157	
2,3,7,8-TCDF	0.759				13C-2,3,7,8-TCDF	48.4	24 - 169	
1,2,3,7,8-PeCDF	0.369			J	13C-1,2,3,7,8-PeCDF	72.5	24 - 185	
2,3,4,7,8-PeCDF	6.76				13C-2,3,4,7,8-PeCDF	70.9	21 - 178	
1,2,3,4,7,8-HxCDF	2.33			J	13C-1,2,3,4,7,8-HxCDF	68.9	26 - 152	
1,2,3,6,7,8-HxCDF	1.83			J	13C-1,2,3,6,7,8-HxCDF	70.5	26 - 123	
2,3,4,6,7,8-HxCDF	3.53				13C-2,3,4,6,7,8-HxCDF	70.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.498			J	13C-1,2,3,7,8,9-HxCDF	73.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	6.14				13C-1,2,3,4,6,7,8-HpCDF	72.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.583			J	13C-1,2,3,4,7,8,9-HpCDF	67.2	26 - 138	
OCDF	2.95			J	13C-OCDF	45.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	48.1	35 - 197	

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

TEQMinWHO2005Dioxin 4.94

<b>TOTALS</b>		
Total TCDD	5.97	7.01
Total PeCDD	11.7	14.7
Total HxCDD	21.8	
Total HpCDD	30.1	
Total TCDF	50.4	51.0
Total PeCDF	86.9	87.1
Total HxCDF	49.9	
Total HpCDF	12.5	

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-068SC-A-07-08-200430					Duplicate Lab Sample: B0I0216-DUP1				
Source LabNumber: 2001995-02									
Matrix: Solid									
Analyte	Dup Conc. (pg/g )	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	25	IS 13C-2,3,7,8-TCDD	52.8	87.2	25 - 164	
1,2,3,7,8-PeCDD	1.44	1.20	18.6	25	13C-1,2,3,7,8-PeCDD	71.8	95.7	25 - 181	
1,2,3,4,7,8-HxCDD	0.365	0.313	15.2	25	13C-1,2,3,4,7,8-HxCDD	68.0	76.2	32 - 141	
1,2,3,6,7,8-HxCDD	1.84	1.43	<b>25.1</b>	25	13C-1,2,3,6,7,8-HxCDD	72.3	75.9	28 - 130	
1,2,3,7,8,9-HxCDD	0.965	0.773	22.2	25	13C-1,2,3,7,8,9-HxCDD	76.9	72.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	12.1	16.8	<b>32.5</b>	25	13C-1,2,3,4,6,7,8-HpCDD	68.2	56.7	23 - 140	
OCDD	191	287	<b>40.1</b>	25	13C-OCDD	36.6	14.2	17 - 157	
2,3,7,8-TCDF	0.759	0.687	9.94	25	13C-2,3,7,8-TCDF	48.4	85.3	24 - 169	
1,2,3,7,8-PeCDF	0.369	0.414	11.4	25	13C-1,2,3,7,8-PeCDF	72.5	99.7	24 - 185	
2,3,4,7,8-PeCDF	6.76	6.25	7.80	25	13C-2,3,4,7,8-PeCDF	70.9	101	21 - 178	
1,2,3,4,7,8-HxCDF	2.33	1.79	<b>26.2</b>	25	13C-1,2,3,4,7,8-HxCDF	68.9	78.2	26 - 152	
1,2,3,6,7,8-HxCDF	1.83	1.41	<b>25.9</b>	25	13C-1,2,3,6,7,8-HxCDF	70.5	77.0	26 - 123	
2,3,4,6,7,8-HxCDF	3.53	3.00	16.3	25	13C-2,3,4,6,7,8-HxCDF	70.5	69.6	28 - 136	
1,2,3,7,8,9-HxCDF	0.498	0.421	16.7	25	13C-1,2,3,7,8,9-HxCDF	73.1	74.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	6.14	4.70	<b>26.5</b>	25	13C-1,2,3,4,6,7,8-HpCDF	72.6	66.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.583	0.570	2.38	25	13C-1,2,3,4,7,8,9-HpCDF	67.2	65.5	26 - 138	
OCDF	2.95	3.17	7.34	25	13C-OCDF	45.8	28.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	48.1	78.2	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-068SC-A-08-09-200430** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-03      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 16.3 g	QC Batch: B0J0073      Date Extracted: 07-Oct-2020 9:53
Date Collected: 30-Apr-2020 8:45	% Solids: 61.3	Date Analyzed: 10-Oct-20 02:34      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.158		IS 13C-2,3,7,8-TCDD	94.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.138			13C-1,2,3,7,8-PeCDD	100	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.154			13C-1,2,3,4,7,8-HxCDD	88.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.163			13C-1,2,3,6,7,8-HxCDD	89.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.165			13C-1,2,3,7,8,9-HxCDD	87.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.45			J	13C-1,2,3,4,6,7,8-HpCDD	85.7	23 - 140	
OCDD	8.62				13C-OCDD	71.9	17 - 157	
2,3,7,8-TCDF	0.247			J	13C-2,3,7,8-TCDF	97.9	24 - 169	
1,2,3,7,8-PeCDF	0.187			J	13C-1,2,3,7,8-PeCDF	96.6	24 - 185	
2,3,4,7,8-PeCDF	0.439			J	13C-2,3,4,7,8-PeCDF	93.7	21 - 178	
1,2,3,4,7,8-HxCDF	0.684			J	13C-1,2,3,4,7,8-HxCDF	86.0	26 - 152	
1,2,3,6,7,8-HxCDF	0.430			J	13C-1,2,3,6,7,8-HxCDF	83.3	26 - 123	
2,3,4,6,7,8-HxCDF	0.326			J	13C-2,3,4,6,7,8-HxCDF	83.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.185			13C-1,2,3,7,8,9-HxCDF	85.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	4.27				13C-1,2,3,4,6,7,8-HpCDF	78.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.381			J	13C-1,2,3,4,7,8,9-HpCDF	74.1	26 - 138	
OCDF	1.87			J	13C-OCDF	71.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.2	35 - 197	

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

TEQMinWHO2005Dioxin      0.370

<b>TOTALS</b>				
Total TCDD	1.06		1.22	
Total PeCDD	0.778		1.24	
Total HxCDD	2.65			
Total HpCDD	3.82			
Total TCDF	4.25		4.54	
Total PeCDF	4.04			
Total HxCDF	4.62			
Total HpCDF	7.81			

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-068SC-A-09-10-200430** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-04      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 18.0 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 30-Apr-2020 8:45	% Solids: 55.6	Date Analyzed: 30-Sep-20 18:55      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0509			IS 13C-2,3,7,8-TCDD	83.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0956			13C-1,2,3,7,8-PeCDD	98.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0759			13C-1,2,3,4,7,8-HxCDD	91.7	32 - 141	
1,2,3,6,7,8-HxCDD	0.123			J	13C-1,2,3,6,7,8-HxCDD	93.2	28 - 130	
1,2,3,7,8,9-HxCDD	0.170			J	13C-1,2,3,7,8,9-HxCDD	95.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.30			J	13C-1,2,3,4,6,7,8-HpCDD	98.7	23 - 140	
OCDD	10.0				13C-OCDD	92.5	17 - 157	
2,3,7,8-TCDF	0.257			J	13C-2,3,7,8-TCDF	82.4	24 - 169	
1,2,3,7,8-PeCDF	0.0783			J	13C-1,2,3,7,8-PeCDF	100	24 - 185	
2,3,4,7,8-PeCDF	0.0703			J	13C-2,3,4,7,8-PeCDF	105	21 - 178	
1,2,3,4,7,8-HxCDF	0.0737			J	13C-1,2,3,4,7,8-HxCDF	90.4	26 - 152	
1,2,3,6,7,8-HxCDF	0.0791			J	13C-1,2,3,6,7,8-HxCDF	90.2	26 - 123	
2,3,4,6,7,8-HxCDF	0.0579			J	13C-2,3,4,6,7,8-HxCDF	93.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.0683			J	13C-1,2,3,7,8,9-HxCDF	94.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.157			J	13C-1,2,3,4,6,7,8-HpCDF	100	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0530			13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	ND	0.116			13C-OCDF	94.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	72.2	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.124

<b>TOTALS</b>			
Total TCDD	1.29		
Total PeCDD	0.651	0.884	
Total HxCDD	2.46		
Total HpCDD	3.65		
Total TCDF	3.26	4.01	
Total PeCDF	0.683	0.774	
Total HxCDF	0.558		
Total HpCDF	0.157		

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-078SC-A-07-08-200505** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-05      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 17.6 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 05-May-2020 10:50	% Solids: 57.0	Date Analyzed : 30-Sep-20 19:39      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.91				IS 13C-2,3,7,8-TCDD	87.5	25 - 164	
1,2,3,7,8-PeCDD	1.40			J	13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	1.42			J	13C-1,2,3,4,7,8-HxCDD	93.1	32 - 141	
1,2,3,6,7,8-HxCDD	7.81				13C-1,2,3,6,7,8-HxCDD	93.7	28 - 130	
1,2,3,7,8,9-HxCDD	3.78				13C-1,2,3,7,8,9-HxCDD	96.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	187				13C-1,2,3,4,6,7,8-HpCDD	104	23 - 140	
OCDD	2410				13C-OCDD	98.2	17 - 157	
2,3,7,8-TCDF	89.5				13C-2,3,7,8-TCDF	87.4	24 - 169	
1,2,3,7,8-PeCDF	94.4				13C-1,2,3,7,8-PeCDF	107	24 - 185	
2,3,4,7,8-PeCDF	56.4				13C-2,3,4,7,8-PeCDF	110	21 - 178	
1,2,3,4,7,8-HxCDF	194				13C-1,2,3,4,7,8-HxCDF	94.1	26 - 152	
1,2,3,6,7,8-HxCDF	40.6				13C-1,2,3,6,7,8-HxCDF	94.3	26 - 123	
2,3,4,6,7,8-HxCDF	13.5				13C-2,3,4,6,7,8-HxCDF	95.1	28 - 136	
1,2,3,7,8,9-HxCDF	18.3				13C-1,2,3,7,8,9-HxCDF	97.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	99.8				13C-1,2,3,4,6,7,8-HpCDF	99.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	35.3				13C-1,2,3,4,7,8,9-HpCDF	99.8	26 - 138	
OCDF	194				13C-OCDF	94.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	82.3	35 - 197	

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

TEQMinWHO2005Dioxin      64.0

<b>TOTALS</b>	
Total TCDD	17.4
Total PeCDD	19.6
Total HxCDD	99.2
Total HpCDD	512
Total TCDF	262
Total PeCDF	314
Total HxCDF	399
Total HpCDF	314

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-171SC-A-01-02-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-06      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 19.1 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 15:15	% Solids: 52.4	Date Analyzed : 01-Oct-20 00:53      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.186		IS 13C-2,3,7,8-TCDD	77.9	25 - 164	
1,2,3,7,8-PeCDD	ND		0.333		13C-1,2,3,7,8-PeCDD	88.9	25 - 181	
1,2,3,4,7,8-HxCDD	0.585			J	13C-1,2,3,4,7,8-HxCDD	87.5	32 - 141	
1,2,3,6,7,8-HxCDD	2.97				13C-1,2,3,6,7,8-HxCDD	88.2	28 - 130	
1,2,3,7,8,9-HxCDD	1.37			J	13C-1,2,3,7,8,9-HxCDD	92.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	71.5				13C-1,2,3,4,6,7,8-HpCDD	91.8	23 - 140	
OCDD	482				13C-OCDD	90.1	17 - 157	
2,3,7,8-TCDF	2.22				13C-2,3,7,8-TCDF	76.7	24 - 169	
1,2,3,7,8-PeCDF	2.99				13C-1,2,3,7,8-PeCDF	93.3	24 - 185	
2,3,4,7,8-PeCDF	1.68			J	13C-2,3,4,7,8-PeCDF	94.5	21 - 178	
1,2,3,4,7,8-HxCDF	6.37				13C-1,2,3,4,7,8-HxCDF	87.4	26 - 152	
1,2,3,6,7,8-HxCDF	1.76			J	13C-1,2,3,6,7,8-HxCDF	87.5	26 - 123	
2,3,4,6,7,8-HxCDF	1.07			J	13C-2,3,4,6,7,8-HxCDF	90.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.594		13C-1,2,3,7,8,9-HxCDF	90.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	10.5				13C-1,2,3,4,6,7,8-HpCDF	95.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.66			J	13C-1,2,3,4,7,8,9-HpCDF	92.6	26 - 138	
OCDF	41.3				13C-OCDF	87.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	69.5	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      3.22

<b>TOTALS</b>			
Total TCDD	4.01		4.19
Total PeCDD	3.33		4.31
Total HxCDD	25.0		
Total HpCDD	159		
Total TCDF	9.49		9.92
Total PeCDF	13.1		13.5
Total HxCDF	28.4		29.5
Total HpCDF	52.7		52.9

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-171SC-A-02-03-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-07      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 23.9 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 15:15	% Solids: 42.1	Date Analyzed: 01-Oct-20 01:37      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.287		IS 13C-2,3,7,8-TCDD	80.0	25 - 164	
1,2,3,7,8-PeCDD	0.549			J	13C-1,2,3,7,8-PeCDD	88.7	25 - 181	
1,2,3,4,7,8-HxCDD	0.801			J	13C-1,2,3,4,7,8-HxCDD	86.4	32 - 141	
1,2,3,6,7,8-HxCDD	2.80				13C-1,2,3,6,7,8-HxCDD	87.4	28 - 130	
1,2,3,7,8,9-HxCDD	1.63			J	13C-1,2,3,7,8,9-HxCDD	84.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	68.2				13C-1,2,3,4,6,7,8-HpCDD	88.3	23 - 140	
OCDD	728				13C-OCDD	77.1	17 - 157	
2,3,7,8-TCDF	2.85				13C-2,3,7,8-TCDF	82.7	24 - 169	
1,2,3,7,8-PeCDF	2.73				13C-1,2,3,7,8-PeCDF	89.3	24 - 185	
2,3,4,7,8-PeCDF	1.87			J	13C-2,3,4,7,8-PeCDF	98.4	21 - 178	
1,2,3,4,7,8-HxCDF	4.81				13C-1,2,3,4,7,8-HxCDF	84.6	26 - 152	
1,2,3,6,7,8-HxCDF	1.60			J	13C-1,2,3,6,7,8-HxCDF	84.6	26 - 123	
2,3,4,6,7,8-HxCDF	1.05			J	13C-2,3,4,6,7,8-HxCDF	85.4	28 - 136	
1,2,3,7,8,9-HxCDF	0.584			J	13C-1,2,3,7,8,9-HxCDF	87.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	11.1				13C-1,2,3,4,6,7,8-HpCDF	88.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.33			J	13C-1,2,3,4,7,8,9-HpCDF	93.9	26 - 138	
OCDF	33.7				13C-OCDF	78.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.3	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      3.84

<b>TOTALS</b>		
Total TCDD	5.56	6.08
Total PeCDD	5.42	5.60
Total HxCDD	28.5	
Total HpCDD	179	
Total TCDF	14.5	14.9
Total PeCDF	16.1	16.3
Total HxCDF	25.7	
Total HpCDF	38.9	

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-171SC-A-03-04-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-08      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 17.7 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 15:15	% Solids: 57.0	Date Analyzed: 01-Oct-20 02:21      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.154		IS 13C-2,3,7,8-TCDD	89.7	25 - 164	
1,2,3,7,8-PeCDD	0.375			J	13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	0.497			J	13C-1,2,3,4,7,8-HxCDD	97.4	32 - 141	
1,2,3,6,7,8-HxCDD	2.07			J	13C-1,2,3,6,7,8-HxCDD	99.3	28 - 130	
1,2,3,7,8,9-HxCDD	1.11			J	13C-1,2,3,7,8,9-HxCDD	98.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	43.4				13C-1,2,3,4,6,7,8-HpCDD	99.7	23 - 140	
OCDD	659				13C-OCDD	102	17 - 157	
2,3,7,8-TCDF	1.12				13C-2,3,7,8-TCDF	86.7	24 - 169	
1,2,3,7,8-PeCDF	1.23			J	13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	0.892			J	13C-2,3,4,7,8-PeCDF	111	21 - 178	
1,2,3,4,7,8-HxCDF	2.86				13C-1,2,3,4,7,8-HxCDF	96.6	26 - 152	
1,2,3,6,7,8-HxCDF	0.982			J	13C-1,2,3,6,7,8-HxCDF	96.6	26 - 123	
2,3,4,6,7,8-HxCDF	0.648			J	13C-2,3,4,6,7,8-HxCDF	98.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.464			J	13C-1,2,3,7,8,9-HxCDF	99.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	9.25				13C-1,2,3,4,6,7,8-HpCDF	103	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.965			J	13C-1,2,3,4,7,8,9-HpCDF	103	26 - 138	
OCDF	26.9				13C-OCDF	96.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	80.7	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      2.40

<b>TOTALS</b>		
Total TCDD	2.12	2.57
Total PeCDD	2.40	3.37
Total HxCDD	17.8	18.5
Total HpCDD	98.1	
Total TCDF	5.44	6.18
Total PeCDF	8.45	
Total HxCDF	15.7	15.9
Total HpCDF	29.7	

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

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

**Sample ID: PDI-171SC-A-04-05-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-09      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 17.9 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 15:15	% Solids: 56.0	Date Analyzed : 01-Oct-20 03:04      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.164		IS 13C-2,3,7,8-TCDD	120	25 - 164	
1,2,3,7,8-PeCDD	0.185			J	13C-1,2,3,7,8-PeCDD	125	25 - 181	
1,2,3,4,7,8-HxCDD	0.213			J	13C-1,2,3,4,7,8-HxCDD	115	32 - 141	
1,2,3,6,7,8-HxCDD	0.825			J	13C-1,2,3,6,7,8-HxCDD	115	28 - 130	
1,2,3,7,8,9-HxCDD	0.486			J	13C-1,2,3,7,8,9-HxCDD	114	32 - 141	
1,2,3,4,6,7,8-HpCDD	21.9				13C-1,2,3,4,6,7,8-HpCDD	116	23 - 140	
OCDD	199				13C-OCDD	116	17 - 157	
2,3,7,8-TCDF	5.68				13C-2,3,7,8-TCDF	123	24 - 169	
1,2,3,7,8-PeCDF	2.31			J	13C-1,2,3,7,8-PeCDF	132	24 - 185	
2,3,4,7,8-PeCDF	1.82			J	13C-2,3,4,7,8-PeCDF	138	21 - 178	
1,2,3,4,7,8-HxCDF	2.27			J	13C-1,2,3,4,7,8-HxCDF	115	26 - 152	
1,2,3,6,7,8-HxCDF	0.650			J	13C-1,2,3,6,7,8-HxCDF	114	26 - 123	
2,3,4,6,7,8-HxCDF	0.417			J	13C-2,3,4,6,7,8-HxCDF	115	28 - 136	
1,2,3,7,8,9-HxCDF	0.377			J	13C-1,2,3,7,8,9-HxCDF	118	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.89				13C-1,2,3,4,6,7,8-HpCDF	118	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.598			J	13C-1,2,3,4,7,8,9-HpCDF	121	26 - 138	
OCDF	11.5				13C-OCDF	113	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	111	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      2.22

<b>TOTALS</b>			
Total TCDD	2.63		3.15
Total PeCDD	1.25		1.86
Total HxCDD	9.20		
Total HpCDD	52.8		
Total TCDF	19.3		19.7
Total PeCDF	10.2		
Total HxCDF	9.48		
Total HpCDF	12.4		

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

LCL-UCL- Lower control limit - upper control limit  
 The results are reported in dry weight. 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-171SC-A-05-06-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-10      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 14.8 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 15:15	% Solids: 67.8	Date Analyzed: 01-Oct-20 03:48      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.147		IS 13C-2,3,7,8-TCDD	92.8	25 - 164	
1,2,3,7,8-PeCDD	0.237			J	13C-1,2,3,7,8-PeCDD	95.3	25 - 181	
1,2,3,4,7,8-HxCDD	0.283			J	13C-1,2,3,4,7,8-HxCDD	82.8	32 - 141	
1,2,3,6,7,8-HxCDD	1.37			J	13C-1,2,3,6,7,8-HxCDD	81.3	28 - 130	
1,2,3,7,8,9-HxCDD	0.708			J	13C-1,2,3,7,8,9-HxCDD	79.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	36.4				13C-1,2,3,4,6,7,8-HpCDD	69.2	23 - 140	
OCDD	329				13C-OCDD	62.2	17 - 157	
2,3,7,8-TCDF	2.50				13C-2,3,7,8-TCDF	94.4	24 - 169	
1,2,3,7,8-PeCDF	4.12				13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	1.94			J	13C-2,3,4,7,8-PeCDF	109	21 - 178	
1,2,3,4,7,8-HxCDF	8.18				13C-1,2,3,4,7,8-HxCDF	80.4	26 - 152	
1,2,3,6,7,8-HxCDF	2.13			J	13C-1,2,3,6,7,8-HxCDF	78.4	26 - 123	
2,3,4,6,7,8-HxCDF	0.882			J	13C-2,3,4,6,7,8-HxCDF	78.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.594		13C-1,2,3,7,8,9-HxCDF	87.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	7.07				13C-1,2,3,4,6,7,8-HpCDF	68.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.62			J	13C-1,2,3,4,7,8,9-HpCDF	76.1	26 - 138	
OCDF	19.4				13C-OCDF	60.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.0	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      3.10

<b>TOTALS</b>		
Total TCDD	14.7	14.9
Total PeCDD	1.60	2.20
Total HxCDD	14.0	14.4
Total HpCDD	93.1	
Total TCDF	10.2	10.5
Total PeCDF	12.8	13.0
Total HxCDF	20.2	21.0
Total HpCDF	23.0	

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

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

**Sample ID: PDI-171SC-A-06-07-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-11      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 15.0 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 15:15	% Solids: 66.9	Date Analyzed : 01-Oct-20 04:32      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.336		IS 13C-2,3,7,8-TCDD	76.3	25 - 164	
1,2,3,7,8-PeCDD	0.452			J	13C-1,2,3,7,8-PeCDD	86.5	25 - 181	
1,2,3,4,7,8-HxCDD	0.652			J	13C-1,2,3,4,7,8-HxCDD	86.9	32 - 141	
1,2,3,6,7,8-HxCDD	3.18				13C-1,2,3,6,7,8-HxCDD	89.9	28 - 130	
1,2,3,7,8,9-HxCDD	1.47			J	13C-1,2,3,7,8,9-HxCDD	89.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	144				13C-1,2,3,4,6,7,8-HpCDD	78.1	23 - 140	
OCDD	1440				13C-OCDD	75.2	17 - 157	
2,3,7,8-TCDF	4.19				13C-2,3,7,8-TCDF	72.7	24 - 169	
1,2,3,7,8-PeCDF	2.73				13C-1,2,3,7,8-PeCDF	88.1	24 - 185	
2,3,4,7,8-PeCDF	2.20			J	13C-2,3,4,7,8-PeCDF	91.3	21 - 178	
1,2,3,4,7,8-HxCDF	4.18				13C-1,2,3,4,7,8-HxCDF	77.9	26 - 152	
1,2,3,6,7,8-HxCDF	1.47			J	13C-1,2,3,6,7,8-HxCDF	77.8	26 - 123	
2,3,4,6,7,8-HxCDF	0.870			J	13C-2,3,4,6,7,8-HxCDF	85.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.634			J	13C-1,2,3,7,8,9-HxCDF	83.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	12.8				13C-1,2,3,4,6,7,8-HpCDF	82.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.57			J	13C-1,2,3,4,7,8,9-HpCDF	80.7	26 - 138	
OCDF	52.0				13C-OCDF	71.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	65.1	35 - 197	

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

TEQMinWHO2005Dioxin      4.89

<b>TOTALS</b>		
Total TCDD	6.57	6.90
Total PeCDD	4.37	5.61
Total HxCDD	45.9	
Total HpCDD	633	
Total TCDF	19.5	20.6
Total PeCDF	16.2	16.7
Total HxCDF	22.0	
Total HpCDF	48.5	

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

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

**Sample ID: PDI-173SC-A-01-02-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-12      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 12.9 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 11:45	% Solids: 78.1	Date Analyzed : 01-Oct-20 05:15      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0306			IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0530			13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	0.126			J	13C-1,2,3,4,7,8-HxCDD	101	32 - 141	
1,2,3,6,7,8-HxCDD	0.602			J	13C-1,2,3,6,7,8-HxCDD	100	28 - 130	
1,2,3,7,8,9-HxCDD	0.361			J	13C-1,2,3,7,8,9-HxCDD	99.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	33.5				13C-1,2,3,4,6,7,8-HpCDD	100	23 - 140	
OCDD	239				13C-OCDD	101	17 - 157	
2,3,7,8-TCDF	ND		0.281		13C-2,3,7,8-TCDF	104	24 - 169	
1,2,3,7,8-PeCDF	0.257			J	13C-1,2,3,7,8-PeCDF	111	24 - 185	
2,3,4,7,8-PeCDF	0.218			J	13C-2,3,4,7,8-PeCDF	116	21 - 178	
1,2,3,4,7,8-HxCDF	0.558			J	13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	0.150			J	13C-1,2,3,6,7,8-HxCDF	99.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.113		13C-2,3,4,6,7,8-HxCDF	99.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.114		13C-1,2,3,7,8,9-HxCDF	99.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.77				13C-1,2,3,4,6,7,8-HpCDF	104	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.215			J	13C-1,2,3,4,7,8,9-HpCDF	99.3	26 - 138	
OCDF	7.43				13C-OCDF	93.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	89.8	35 - 197	

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

TEQMinWHO2005Dioxin      0.692

<b>TOTALS</b>		
Total TCDD	0.131	
Total PeCDD	0.592	
Total HxCDD	8.42	8.56
Total HpCDD	76.6	
Total TCDF	0.483	0.871
Total PeCDF	1.30	1.40
Total HxCDF	2.94	3.16
Total HpCDF	8.18	

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-173SC-A-02-03-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-13      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 13.0 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 11:45	% Solids: 77.5	Date Analyzed: 01-Oct-20 05:59      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0459			IS 13C-2,3,7,8-TCDD	56.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0705			13C-1,2,3,7,8-PeCDD	75.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0839			13C-1,2,3,4,7,8-HxCDD	83.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.189		13C-1,2,3,6,7,8-HxCDD	87.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0750			13C-1,2,3,7,8,9-HxCDD	98.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	5.32				13C-1,2,3,4,6,7,8-HpCDD	93.5	23 - 140	
OCDD	47.8				13C-OCDD	92.6	17 - 157	
2,3,7,8-TCDF	ND	0.0561			13C-2,3,7,8-TCDF	56.2	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0903		13C-1,2,3,7,8-PeCDF	76.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0523			13C-2,3,4,7,8-PeCDF	76.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.162		13C-1,2,3,4,7,8-HxCDF	75.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0495			13C-1,2,3,6,7,8-HxCDF	78.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0487			13C-2,3,4,6,7,8-HxCDF	88.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0639			13C-1,2,3,7,8,9-HxCDF	84.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.613			J	13C-1,2,3,4,6,7,8-HpCDF	97.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0642			13C-1,2,3,4,7,8,9-HpCDF	87.3	26 - 138	
OCDF	1.51			J	13C-OCDF	87.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	51.5	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.0741

<b>TOTALS</b>								
Total TCDD	ND	0.0459						
Total PeCDD	0.150							
Total HxCDD	1.72		1.91					
Total HpCDD	12.4							
Total TCDF	ND	0.0561						
Total PeCDF	0.296		0.539					
Total HxCDF	0.354		0.860					
Total HpCDF	1.80							

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-173SC-A-03-04-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-14      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 14.5 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 11:45	% Solids: 69.3	Date Analyzed: 01-Oct-20 06:43      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0840		IS 13C-2,3,7,8-TCDD	94.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0487			13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0734			13C-1,2,3,4,7,8-HxCDD	95.0	32 - 141	
1,2,3,6,7,8-HxCDD	0.550			J	13C-1,2,3,6,7,8-HxCDD	94.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0764			13C-1,2,3,7,8,9-HxCDD	92.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	12.3				13C-1,2,3,4,6,7,8-HpCDD	92.6	23 - 140	
OCDD	108				13C-OCDD	88.3	17 - 157	
2,3,7,8-TCDF	0.201			J	13C-2,3,7,8-TCDF	94.8	24 - 169	
1,2,3,7,8-PeCDF	0.115			J	13C-1,2,3,7,8-PeCDF	105	24 - 185	
2,3,4,7,8-PeCDF	0.175			J	13C-2,3,4,7,8-PeCDF	112	21 - 178	
1,2,3,4,7,8-HxCDF	0.239			J	13C-1,2,3,4,7,8-HxCDF	94.0	26 - 152	
1,2,3,6,7,8-HxCDF	0.189			J	13C-1,2,3,6,7,8-HxCDF	93.4	26 - 123	
2,3,4,6,7,8-HxCDF	0.190			J	13C-2,3,4,6,7,8-HxCDF	95.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0491		13C-1,2,3,7,8,9-HxCDF	93.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.54			J	13C-1,2,3,4,6,7,8-HpCDF	95.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.113			J	13C-1,2,3,4,7,8,9-HpCDF	94.0	26 - 138	
OCDF	4.29			J	13C-OCDF	86.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	82.8	35 - 197	

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

TEQMinWHO2005Dioxin      0.366

<b>TOTALS</b>		
Total TCDD	0.412	0.552
Total PeCDD	0.674	
Total HxCDD	4.96	5.05
Total HpCDD	27.4	
Total TCDF	1.02	1.17
Total PeCDF	2.30	2.55
Total HxCDF	3.73	3.78
Total HpCDF	5.49	

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-174SC-A-01-02-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-15      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 12.8 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 12:10	% Solids: 78.8	Date Analyzed: 01-Oct-20 07:26      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0443			IS 13C-2,3,7,8-TCDD	52.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0797			13C-1,2,3,7,8-PeCDD	76.5	25 - 181	
1,2,3,4,7,8-HxCDD	0.172			J	13C-1,2,3,4,7,8-HxCDD	80.5	32 - 141	
1,2,3,6,7,8-HxCDD	1.02			J	13C-1,2,3,6,7,8-HxCDD	83.1	28 - 130	
1,2,3,7,8,9-HxCDD	0.471			J	13C-1,2,3,7,8,9-HxCDD	89.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	28.1				13C-1,2,3,4,6,7,8-HpCDD	88.4	23 - 140	
OCDD	222				13C-OCDD	81.0	17 - 157	
2,3,7,8-TCDF	ND		0.421		13C-2,3,7,8-TCDF	47.7	24 - 169	
1,2,3,7,8-PeCDF	0.555			J	13C-1,2,3,7,8-PeCDF	74.2	24 - 185	
2,3,4,7,8-PeCDF	0.338			J	13C-2,3,4,7,8-PeCDF	74.0	21 - 178	
1,2,3,4,7,8-HxCDF	1.24			J	13C-1,2,3,4,7,8-HxCDF	79.1	26 - 152	
1,2,3,6,7,8-HxCDF	0.347			J	13C-1,2,3,6,7,8-HxCDF	81.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0955			13C-2,3,4,6,7,8-HxCDF	84.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.128			13C-1,2,3,7,8,9-HxCDF	82.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.50				13C-1,2,3,4,6,7,8-HpCDF	90.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.255			J	13C-1,2,3,4,7,8,9-HpCDF	83.8	26 - 138	
OCDF	7.88				13C-OCDF	73.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	46.9	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      0.821

<b>TOTALS</b>				
Total TCDD	ND		0.130	
Total PeCDD	0.711		0.922	
Total HxCDD	10.8			
Total HpCDD	67.2			
Total TCDF	0.624		1.05	
Total PeCDF	2.60			
Total HxCDF	4.80			
Total HpCDF	8.40			

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-174SC-A-02-03-200521** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001995-16      Date Received: 23-Sep-2020 11:47
Project: Gasco PDI 000029-02.64	Sample Size: 13.0 g	QC Batch: B010216      Date Extracted: 28-Sep-2020 7:41
Date Collected: 21-May-2020 12:10	% Solids: 77.1	Date Analyzed : 01-Oct-20 08:10      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0289			IS 13C-2,3,7,8-TCDD	96.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0511			13C-1,2,3,7,8-PeCDD	110	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0676			13C-1,2,3,4,7,8-HxCDD	100	32 - 141	
1,2,3,6,7,8-HxCDD	0.413			J	13C-1,2,3,6,7,8-HxCDD	102	28 - 130	
1,2,3,7,8,9-HxCDD	0.190			J	13C-1,2,3,7,8,9-HxCDD	100	32 - 141	
1,2,3,4,6,7,8-HpCDD	6.65				13C-1,2,3,4,6,7,8-HpCDD	101	23 - 140	
OCDD	57.9				13C-OCDD	98.7	17 - 157	
2,3,7,8-TCDF	0.130			J	13C-2,3,7,8-TCDF	95.1	24 - 169	
1,2,3,7,8-PeCDF	0.0813			J	13C-1,2,3,7,8-PeCDF	113	24 - 185	
2,3,4,7,8-PeCDF	0.0934			J	13C-2,3,4,7,8-PeCDF	118	21 - 178	
1,2,3,4,7,8-HxCDF	0.186			J	13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0445			13C-1,2,3,6,7,8-HxCDF	100	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0510			13C-2,3,4,6,7,8-HxCDF	101	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0614			13C-1,2,3,7,8,9-HxCDF	102	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.844			J	13C-1,2,3,4,6,7,8-HpCDF	104	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0562			13C-1,2,3,4,7,8,9-HpCDF	102	26 - 138	
OCDF	1.94			J	13C-OCDF	91.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	86.3	35 - 197	

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

TEQMinWHO2005Dioxin      0.215

<b>TOTALS</b>								
Total TCDD	ND	0.0289						
Total PeCDD	0.158		0.263					
Total HxCDD	3.58							
Total HpCDD	17.4							
Total TCDF	0.230							
Total PeCDF	0.805		0.995					
Total HxCDF	1.62							
Total HpCDF	2.39							

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

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

## DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
K	EMPC (specific projects only)
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
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)

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

**Chain of Custody Record & Laboratory Analysis Request**

2001995 5.4°C

Laboratory Number:  Date: 9/22/2020 Project Name: Gasco PDI Project Number: 000029-02.64 Project Manager: Delaney Peterson Phone Number: 360.715.2707 Shipment Method: FedEx Samplers: co, sn				<b>Test Parameters</b>																	
Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Dioxin/furans (1613B)	Total solids (SM 2540G)															
1	PDI-048SC-A-08-11-200506	5/6/2020 11:29	SE	1	X	X															
2	PDI-068SC-A-07-08-200430 ✓	4/30/2020 8:45	SE	1	X	X															Please analyze duplicate
3	PDI-068SC-A-08-09-200430	4/30/2020 8:45	SE	1	X	X															
4	PDI-068SC-A-09-10-200430	4/30/2020 8:45	SE	1	X	X															
5	PDI-078SC-A-07-08-200505	5/5/2020 10:50	SE	1	X	X															
6	PDI-171SC-A-01-02-200521	5/21/2020 15:15	SE	1	X	X															
7	PDI-171SC-A-02-03-200521	5/21/2020 15:15	SE	1	X	X															
8	PDI-171SC-A-03-04-200521	5/21/2020 15:15	SE	1	X	X															
9	PDI-171SC-A-04-05-200521	5/21/2020 15:15	SE	1	X	X															
10	PDI-171SC-A-05-06-200521	5/21/2020 15:15	SE	1	X	X															
11	PDI-171SC-A-06-07-200521	5/21/2020 15:15	SE	1	X	X															
12	PDI-173SC-A-01-02-200521	5/21/2020 11:45	SE	1	X	X															
13	PDI-173SC-A-02-03-200521	5/21/2020 11:45	SE	1	X	X															
14	PDI-173SC-A-03-04-200521	5/21/2020 11:45	SE	1	X	X															
15	PDI-174SC-A-01-02-200521	5/21/2020 12:10	SE	1	X	X															

Relinquished By: Masa Kanematsu Company: Anchor QEA, LLC  
 Signature/Printed Name: *[Signature]* Date/Time: 9/22/2020 15:15

Received By: William R Wright Company: QEA  
 Signature/Printed Name: *[Signature]* Date/Time: 9/23/20 11:47


Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name \_\_\_\_\_ Date/Time \_\_\_\_\_

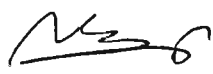
Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
 Signature/Printed Name \_\_\_\_\_ Date/Time \_\_\_\_\_

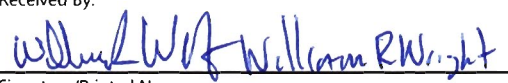


Chain of Custody Record & Laboratory Analysis Request

2001995

Laboratory Number:				Test Parameters																			
Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Dioxin/furans (1613B)	Total solids (SM 2540G)																	
16	PDI-174SC-A-02-03-200521	5/21/2020 12:10	SE	1	X	X																	
17																							
18																							
19																							
20																							
21																							
22																							
23																							
24																							
25																							
26																							
27																							
28																							
29																							
30																							

Relinquished By: Masa Kanematsu  Company: Anchor QEA, LLC  
Signature/Printed Name Date/Time 9/22/2020 15:15

Received By: William R Wright  Company: VAL  
Signature/Printed Name Date/Time 9/23/20 11:47

Relinquished By: \_\_\_\_\_ Company: \_\_\_\_\_  
Signature/Printed Name Date/Time

Received By: \_\_\_\_\_ Company: \_\_\_\_\_  
Signature/Printed Name Date/Time

# Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2001995 TAT Std.

<b>Samples Arrival:</b>	<b>Date/Time:</b> 09/23/20 11:47	<b>Initials:</b> UWU	<b>Location:</b> WB-2	<b>Shelf/Rack:</b> NA			
<b>Delivered By:</b>	FedEx <input checked="" type="checkbox"/>	UPS <input type="checkbox"/>	On Trac <input type="checkbox"/>	GLS <input type="checkbox"/>	DHL <input type="checkbox"/>	Hand Delivered <input type="checkbox"/>	Other <input type="checkbox"/>
<b>Preservation:</b>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Techni Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>	None <input type="checkbox"/>		
<b>Temp °C:</b> 5.4 (uncorrected)	<b>Probe used:</b> <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N		<b>Thermometer ID:</b> DT-3				
<b>Temp °C:</b> 5.4 (corrected)							

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u>—</u> Trk # <u>7715 9789 6246</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Vista <input checked="" type="checkbox"/>	Client <input type="checkbox"/>	Retain <input type="checkbox"/>
	Return <input type="checkbox"/>	Dispose <input type="checkbox"/>	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Logged In:</b>	<b>Date/Time:</b> 09/23/20 14:07	<b>Initials:</b> KA	<b>Location:</b> WB-2	<b>Shelf/Rack:</b> D-4
COC Anomaly/Sample Acceptance Form completed?				<input checked="" type="checkbox"/>

Comments:

# CoC/Label Reconciliation Report WO# 2001995

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2001995-01	A PDI-048SC-A-08-11-200506		06-May-20 11:29	Amber Glass, 120 mL	Solid	
2001995-02	A PDI-068SC-A-07-08-200430		30-Apr-20 08:45	Amber Glass, 120 mL	Solid	Dup
2001995-03	A PDI-068SC-A-08-09-200430		30-Apr-20 08:45	Amber Glass, 120 mL	Solid	
2001995-04	A PDI-068SC-A-09-10-200430		30-Apr-20 08:45	Amber Glass, 120 mL	Solid	
2001995-05	A PDI-078SC-A-07-08-200505		05-May-20 10:50	Amber Glass, 120 mL	Solid	
2001995-06	A PDI-171SC-A-01-02-200521		21-May-20 15:15	Clear Glass Jar, 120mL	Solid	
2001995-07	A PDI-171SC-A-02-03-200521		21-May-20 15:15	Clear Glass Jar, 120mL	Solid	
2001995-08	A PDI-171SC-A-03-04-200521		21-May-20 15:15	Clear Glass Jar, 120mL	Solid	
2001995-09	A PDI-171SC-A-04-05-200521		21-May-20 15:15	Clear Glass Jar, 120mL	Solid	
2001995-10	A PDI-171SC-A-05-06-200521		21-May-20 15:15	Clear Glass Jar, 120mL	Solid	
2001995-11	A PDI-171SC-A-06-07-200521		21-May-20 15:15	Clear Glass Jar, 120mL	Solid	
2001995-12	A PDI-173SC-A-01-02-200521		21-May-20 11:45	Clear Glass Jar, 120mL	Solid	
2001995-13	A PDI-173SC-A-02-03-200521		21-May-20 11:45	Clear Glass Jar, 120mL	Solid	
2001995-14	A PDI-173SC-A-03-04-200521		21-May-20 11:45	Clear Glass Jar, 120mL	Solid	
2001995-15	A PDI-174SC-A-01-02-200521		21-May-20 12:10	Clear Glass Jar, 120mL	Solid	
2001995-16	A PDI-174SC-A-02-03-200521		21-May-20 12:10	Clear Glass Jar, 120mL	Solid	

A

↓

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) <b>A</b>	✓	✓	
Preservation Documented: Na2S2O3 Trizma <b>None</b> Other		✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

Comments:

A RECEIVED SAMPLES IN CLEAR GLASS JARS.

Verified by/Date: DG 09/23/20

## **EXTRACTION INFORMATION**

Process Sheet  
**Workorder: 2001995**

Prep Expiration: 2021-04-30  
 Client: Anchor QEA, LLC

**Workorder Due: 21-Oct-20 00:00**

TAT: 28

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

Prep Batch: BOI0216

Prep Data Entered: NO 09/30/20  
Date and Initials

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

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2001995-01	<input checked="" type="checkbox"/>	PDI-048SC-A-08-11-200506	23-Sep-20 11:47	WR-2 D-4	
2001995-02	<input checked="" type="checkbox"/>	PDI-068SC-A-07-08-200430	23-Sep-20 11:47	WR-2 D-4	Dup
2001995-03	<input checked="" type="checkbox"/>	PDI-068SC-A-08-09-200430	23-Sep-20 11:47	WR-2 D-4	
2001995-04	<input checked="" type="checkbox"/>	PDI-068SC-A-09-10-200430	23-Sep-20 11:47	WR-2 D-4	
2001995-05	<input checked="" type="checkbox"/>	PDI-078SC-A-07-08-200505	23-Sep-20 11:47	WR-2 D-4	
2001995-06	<input checked="" type="checkbox"/>	PDI-171SC-A-01-02-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-07	<input checked="" type="checkbox"/>	PDI-171SC-A-02-03-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-08	<input checked="" type="checkbox"/>	PDI-171SC-A-03-04-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-09	<input checked="" type="checkbox"/>	PDI-171SC-A-04-05-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-10	<input checked="" type="checkbox"/>	PDI-171SC-A-05-06-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-11	<input checked="" type="checkbox"/>	PDI-171SC-A-06-07-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-12	<input checked="" type="checkbox"/>	PDI-173SC-A-01-02-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-13	<input checked="" type="checkbox"/>	PDI-173SC-A-02-03-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-14	<input checked="" type="checkbox"/>	PDI-173SC-A-03-04-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-15	<input checked="" type="checkbox"/>	PDI-174SC-A-01-02-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-16	<input checked="" type="checkbox"/>	PDI-174SC-A-02-03-200521	23-Sep-20 11:47	WR-2 D-4	

**WO Comments: Dioxin - 10g (dry weight)**

Pre-Prep Check Out: RN 09/27/20

Prep Check Out: EM 09/28/20

Prep Reconciled Initials/Date: RN 09/27/20

Pre-Prep Check In: RN 09/27/20

Prep Check In: EM 09/28/20

Spike Reconciled Initials/Date: EM 09/28/20

VialBoxID: JPOOKY

PREPARATION BENCH SHEET

Matrix: Solid

B0I0216

Chemist: EM

Method: 1613 Full List

Prep Date/Time: 28-Sep-20 07:41

Prepared using: HRMS - Soxhlet

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
A5	B0I0216-BLK1	N/A	(10.00)	EM IM 09/28/20	N/A	IM EM 09/29/20	N/A	IM 09/29/20	IM 09/29/20	AO 09/30/20	AO EM 09/30/20
A6	B0I0216-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓	↓
A7	B0I0216-DUP1 2001995-02	16.82	16.87	↓	↓	↓	↓	↓	↓	↓	↓
C2	2001995-01	18.43	18.49	↓	↓	↓	↓	↓	↓	↓	↓
A9	2001995-02	16.82	16.85	↓	↓	↓	↓	↓	↓	↓	↓
A10	2001995-03	16.32	16.41	↓	↓	↓	↓	↓	↓	↓	↓
A11	2001995-04	17.97	18.02	↓	↓	↓	↓	↓	↓	↓	↓
A12	2001995-05	17.55	17.61	↓	↓	↓	↓	↓	↓	↓	↓
B1	2001995-06	19.09	19.14	↓	↓	↓	↓	↓	↓	↓	↓
B2	2001995-07	23.76	23.88	↓	↓	↓	↓	↓	↓	↓	↓
B3	2001995-08	17.54	17.68	↓	↓	↓	↓	↓	↓	↓	↓
B4	2001995-09	17.84	17.87	↓	↓	↓	↓	↓	↓	↓	↓
B5	2001995-10	14.74	14.84	↓	↓	↓	↓	↓	↓	↓	↓
B6	2001995-11	14.94	15.01	↓	↓	↓	↓	↓	↓	↓	↓
B7	2001995-12	12.80	12.90	↓	↓	↓	↓	↓	↓	↓	↓

IS: 20F1101, 10mL (V5) Cycle Time \_\_\_\_\_ APP: SEFUN SOX (SDS) Check Out: EM 09/28/20 Soxhlet Siphoned Chemist/Date: \_\_\_\_\_ Chemist/Date: \_\_\_\_\_

NS: 20F0107, 10mL (V5) Start Date/Time: 09/28/20 1452 SOLV: T01 Check In: EM 09/28/20 IM 09/28/20 Notes: (A) sample was dark & muddy w/ odor EM 09/28/20  
(C) formed precipitate while rotoevap (before ABGG) IM 09/29/20  
(D) IM 09/29/20  
(E) glass present in sample; caused bubbling during rotoevap IM 09/29/20  
(F) deluted AA column w/ ~60 mL 20% DCM:Hex IM 09/29/20  
(G) small amount of toluene present in ABSG column IM 09/29/20  
(H) brown, red, orange, yellow, black, green present in ABSG column IM 09/29/20

PS/CRS: 20E0701, 10mL (V2) Other: N/A Final Volume(s): 20mL Balance ID: HRMS-08 Vial Transfer Chemist/Date: AO 09/20/20

RS: 20E0702, 10mL (V2) Stop Date/Time: 09/29/20 0053 Final Volume(s): C14

Diox/F PCB PAH PEST PBDE HCB

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

PREPARATION BENCH SHEET

Matrix: Solid

B0I0216

Chemist: EM

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 28-Sep-20 07:41

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B8	2001995-13	12.91	12.96	EM IM 09/28/20	IM EM 09/29/20	N/A	IM 09/29/20	EM 09/29/20	AO 09/30/20	AO EM 09/30/20
B9	2001995-14	14.43	14.52	T	T	T	brown yellow brown	T or *	T	T
B10	2001995-15	12.69	12.77	T	T	T	brown yellow blade	T	T	T
B11	2001995-16	12.97	13.04	T	T	T	⊙	T	T	T
B12	2002027-01	21.04	21.15	T	T	T	brown yellow brown	T	T	T
C1	2002027-02	13.30	13.43	T	T	T	⊙	T	T	T

⊙ sample was dark & muddy w/ odor EM 09/28/20  
 ⊙ ~~sample~~ of the solid sample/dirt fell into the roundbottom while disassembling the soxhlet IM 09/29/20  
 < 0.5g

\*IM 09/29/20

IS: 20F1101, 10μL (VS)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: EM 09/28/20	Soxhlet Siphoned Chemist/Date:	Notes: ⊙ sample formed precipitate while rotoevap'g IM 09/29/20 ⊙ gray and brown present in ABSG column IM 09/29/20
NS: 20F0107, 10μL (VS)	Start Date/Time: 09/28/20 14:52	SOLV: TD1	Check In: EM 09/28/20	IM 09/28/20	
PS/CRS: 20E0701, 10μL (V2)	Stop Date/Time: 09/29/20 06:53	Other: N/A	Balance ID: HRMS-08	Vial Transfer Chemist/Date: AO 09/30/20	
RS: 20E0702, 10μL (V1)		Final Volume(s): 20mL C14			
Diox/F PCB PAH PEST PBDE HCB					

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

Batch: B0I0216

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2001995-01	18.49 ✓	54.27303	10.0351 ✓	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-02	16.85 ✓	59.44134	10.0159 ✓	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-03	16.41 ✓	61.28405	10.0567	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-04	18.02 ✓	55.64083	10.0265 ✓	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-05	17.61 ✓	56.98287	10.0347 ✓	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-06	19.14 ✓	52.39154	10.0277	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-07	23.88 ✓	42.08494	10.0499 ✓	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-08	17.68 ✓	57.01191	10.0797 ✓	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-09	17.87 ✓	56.04651	10.0155 ✓	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-10	14.84 ✓	67.84811	10.0687 ✓	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-11	15.01 ✓	66.93794	10.0474	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-12	12.9 ✓	78.09633	10.0744	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-13	12.96 ✓	77.47337	10.0405	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-14	14.52 ✓	69.28999	10.0609	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-15	12.77 ✓	78.78521	10.0609	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2001995-16	13.04 ✓	77.1179	10.0562	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2002027-01	21.15 ✓	47.5341	10.0535	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
2002027-02	13.43 ✓	74.8497	10.0523	20	28-Sep-20 07:41	EMM			Sediment	1613 Full List
B0I0216-BLK1	10			20	28-Sep-20 07:41	EMM				QC
B0I0216-BS1	10			20 ✓	28-Sep-20 07:41	EMM	20F0107 ✓	10 ✓		QC
B0I0216-DUP1	16.87 ✓	59.44134	10.0278	20 ✓	28-Sep-20 07:41	EMM				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 09/30/20



Analyst: RN ✓	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <b>RM 09/28/20</b>
Analyte:	Units: %	
Oven ID: 01 (02)	Dried at 110°C+/-5°C	

Inst HRMS-09 ✓

Date/Time IN: 09/27/20 1600 ✓ Date/Time OUT: 09/28/20 0635 ✓

Particle Size	SampleID	SampType	Initial and Date: Pan Tare Wt. (gms)	F		G		H	I	K				O	P
				RN 09/27/20 ✓	Wet Pan and Sample Weight (g)	EM 09/28/20 ✓	Dry Pan and Sample Weight (g)			Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl- Before		
	2001995-01	A	1.2600 ✓	10.2700 ✓	6.1500 ✓	4.8900	54.27	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-02	A	1.2700 ✓	10.2200 ✓	6.5900 ✓	5.3200	59.44	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-03	A	1.2700 ✓	11.5500 ✓	7.5700 ✓	6.3000	61.28	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-04	A	1.2700 ✓	14.3000 ✓	8.5200 ✓	7.2500	55.64	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-05	A	1.2600 ✓	16.4400 ✓	9.9100 ✓	8.6500	56.98	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-06	A	1.2700 ✓	10.2600 ✓	5.9800 ✓	4.7100	52.39	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-07	A	1.2700 ✓	11.6300 ✓	5.6300 ✓	4.3600	42.08	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-08	A	1.2700 ✓	12.1800 ✓	7.4900 ✓	6.2200	57.01	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-09	A	1.2800 ✓	9.8800 ✓	6.1000 ✓	4.8200	56.05	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-10	A	1.2700 ✓	13.1200 ✓	9.3100 ✓	8.0400	67.85	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-11	A	1.2700 ✓	11.1000 ✓	7.8500 ✓	6.5800	66.94	Sludge ✓	N/A	N/A	N/A	N/A	X		
	2001995-12	A	1.2800 ✓	10.0000 ✓	8.0900 ✓	6.8100	78.10	Sand ✓	N/A	N/A	N/A	N/A	X		
	2001995-13	A	1.2600 ✓	14.4000 ✓	11.4400 ✓	10.1800	77.47	Sand ✓	N/A	N/A	N/A	N/A	X		
	2001995-14	A	1.2600 ✓	12.9500 ✓	9.3600 ✓	8.1000	69.29	Sand ✓	N/A	N/A	N/A	N/A	X		
	2001995-15	A	1.2700 ✓	12.6300 ✓	10.2200 ✓	8.9500	78.79	Sand ✓	N/A	N/A	N/A	N/A	X		
	2001995-16	A	1.2800 ✓	12.7300 ✓	10.1100 ✓	8.8300	77.12	Sand ✓	N/A	N/A	N/A	N/A	X		

\*Sample homogenized in sample container unless otherwise noted.

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

Inst HRMS-9

Date/Time IN: 09/27/20 Date/Time OUT: 09/28/20  
16.00 06.35

Particle Size	SampID	SampType	Initial and Date: <u>RN 09/27/20</u> <u>RM 09/28/20</u>			%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)							
	2001995-01	Sample	1.26	10.27	6.15		Shudge ↓ Sand ↓					X
	2001995-02	Sample	1.27	10.22	6.59			X				
	2001995-03	Sample	1.27	11.55	7.57			X				
	2001995-04	Sample	1.27	14.30	8.52			X				
	2001995-05	Sample	1.26	16.44	9.91			X				
	2001995-06	Sample	1.27	10.26	5.98			X				
	2001995-07	Sample	1.27	11.63	5.63			X				
	2001995-08	Sample	1.27	12.18	7.49			X				
	2001995-09	Sample	1.28	9.88	6.10			X				
	2001995-10	Sample	1.27	13.12	9.31			X				
	2001995-11	Sample	1.27	11.10	7.85			X				
	2001995-12	Sample	1.28	10.00	8.09			X				
	2001995-13	Sample	1.26	14.40	11.44			X				
	2001995-14	Sample	1.26	12.95	9.36			X				
	2001995-15	Sample	1.27	12.63	10.22			X				
	2001995-16	Sample	1.28	12.73	10.11			X				

\*Sample homogenized in sample container unless otherwise noted.

Process Sheet  
 Workorder: 2001995

RX2

01 10/06/2020  
 Workorder Due: 21-Oct-20 00:00

Prep Expiration: 2021-04-30  
 Client: Anchor QEA, LLC

TAT: 28

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

**RUSH!**

Prep Batch: BOJ0073

Prep Data Entered: 00 10/08/20  
 Date and Initials

Initial Sequence: S050029

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
<del>2001995-01</del>	<input type="checkbox"/>	<del>PDI-048SC-A-08-11-200506</del>	<del>23-Sep-20 11:47</del>	<del>WR-2 D-4</del>	
<del>2001995-02</del>	<input type="checkbox"/>	<del>PDI-068SC-A-07-08-200430</del>	<del>23-Sep-20 11:47</del>	<del>WR-2 D-4</del>	<del>Dup</del> 21-Oct-20 00:00
2001995-03	A <input checked="" type="checkbox"/>	PDI-068SC-A-08-09-200430	23-Sep-20 11:47	WR-2 D-4	23
<del>2001995-04</del>	<input type="checkbox"/>	<del>PDI-068SC-A-08-10-200430</del>	<del>23-Sep-20 11:47</del>	<del>WR-2 D-4</del>	
2001995-05	<input type="checkbox"/>	PDI-078SC-A-07-08-200505	23-Sep-20 11:47	WR-2 D-4	
2001995-06	<input type="checkbox"/>	PDI-171SC-A-01-02-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-07	<input type="checkbox"/>	PDI-171SC-A-02-03-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-08	<input type="checkbox"/>	PDI-171SC-A-03-04-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-09	<input type="checkbox"/>	PDI-171SC-A-04-05-200521	23-Sep-20 11:47	WR-2 D-4	21-Oct-20 00:00
2001995-10	<input type="checkbox"/>	PDI-171SC-A-05-06-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-11	<input type="checkbox"/>	PDI-171SC-A-06-07-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-12	<input type="checkbox"/>	PDI-173SC-A-01-02-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-13	<input type="checkbox"/>	PDI-173SC-A-02-03-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-14	<input checked="" type="checkbox"/>	PDI-173SC-A-03-04-200521	23-Sep-20 11:47	WR-2 D-4	
2001995-15	<input type="checkbox"/>	PDI-174SC-A-01-02-200521	23-Sep-20 11:47	WR-2 D-4	
<del>2001995-16</del>	<input type="checkbox"/>	<del>PDI-174SC-A-02-03-200521</del>	<del>23-Sep-20 11:47</del>	<del>WR-2 D-4</del>	

10g  
 01 5g DW

WO Comments: Dioxin - 40g (dry weight)

Pre-Prep Check Out: \_\_\_\_\_ Prep Check Out: EN 10/07/20 Prep Reconciled Initials/Date: EN 10/07/20  
 Pre-Prep Check In: \_\_\_\_\_ Prep Check In: EN 10/07/20 Spike Reconciled Initials/Date: EN 10/07/20  
 VialBoxID: \_\_\_\_\_

PREPARATION BENCH SHEET

Matrix: Solid

B0J0073

Chemist: RN

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 07-Oct-20 09:53

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:					RS CHEM/WIT DATE
					CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	
	B0J0073-BLK1	N/A	(10.00)	NO <u>EM</u> 10/07/20	NO <u>EM</u> 10/08/20	NO 10/08/20	NO 10/08/20	NO 10/08/20	NO 10/08/20	NO <u>EM</u> 10/08/20
	B0J0073-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
	2001995-03RE2	16.32	16.32	↓	↓	↓	↓ black	↓	↓	↓

IS: <u>20F1101, 10mL</u> (V4)	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RN 10/07/20</u>	Soxhlet Siphoned Chemist/Date: <u>NO 10/07/20</u>	Notes:
NS: <u>20F0107, 10mL</u> (V4)	Start Date/Time	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RN 10/07/20</u>	Vial Transfer Chemist/Date: <u>NO 10/08/20</u>	
PS/CRS: <u>20E0701, 10mL</u> (V2)	10/07/20 1254	Other: <u>N/A</u>	Balance ID: <u>HRMS-8</u>		
RS: <u>20E0702, 10mL</u> (V2)	Stop Date/Time	Final Volume(s) <u>20 uL</u> <u>C14</u>			
<input checked="" type="checkbox"/> Diox/F <input type="checkbox"/> PCB <input type="checkbox"/> PAH <input type="checkbox"/> PEST <input type="checkbox"/> PBDE <input type="checkbox"/> HCB					

Comments:

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

Batch: B0J0073

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2001995-03RE2	16.32 /	61.28405	10.0016	✓ 20	07-Oct-20 09:53	ACO			Sediment	1613 Full List
B0J0073-BLK1	10			20	07-Oct-20 09:53	ACO				QC
B0J0073-BS1	10			20 /	07-Oct-20 09:53	ACO	20F0107 /	10 /		QC

All bolded data on report verified against written benchsheet by (initial/date) AO 10/08/20

Printed: 10/8/2020 10:45:08AM  
Page 1 of 1

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-6.qld

Last Altered: Thursday, October 01, 2020 07:29:27 Pacific Daylight Time

Printed: Thursday, October 01, 2020 08:51:52 Pacific Daylight Time

*GPB 10/01/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

*C7 10/01/2020*

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-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	1.02	10.000	26.448		1.001				0.0530	
2	2 1,2,3,7,8-PeCDD			NO	0.956	10.000	31.070		1.001				0.0785	
3	3 1,2,3,4,7,8-HxCDD			NO	1.00	10.000	34.369		1.000				0.0760	
4	4 1,2,3,6,7,8-HxCDD			NO	0.888	10.000	34.476		1.000				0.0769	
5	5 1,2,3,7,8,9-HxCDD			NO	0.909	10.000	34.764		1.000				0.0722	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.832	10.000	38.212		1.000				0.0882	
7	7 OCDD			NO	0.862	10.000	41.125		1.000				0.328	
8	8 2,3,7,8-TCDF			NO	0.735	10.000	25.756		1.000				0.0485	
9	9 1,2,3,7,8-PeCDF			NO	0.939	10.000	29.833		1.001				0.0499	
10	10 2,3,4,7,8-PeCDF			NO	1.05	10.000	30.896		1.001				0.0449	
11	11 1,2,3,4,7,8-HxCDF			NO	0.842	10.000	33.454		1.000				0.0655	
12	12 1,2,3,6,7,8-HxCDF			NO	0.894	10.000	33.592		1.000				0.0597	
13	13 2,3,4,6,7,8-HxCDF			NO	0.870	10.000	34.273		1.001				0.0648	
14	14 1,2,3,7,8,9-HxCDF			NO	0.855	10.000	35.285		1.001				0.0815	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.891	10.000	36.885		1.001				0.0715	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.00	10.000	38.807		1.000				0.0647	
17	17 OCDF			NO	0.784	10.000	41.424		1.000				0.152	
18	18 13C-2,3,7,8-TCDD	5.40e5	0.79	NO	1.15	10.000	26.404	26.42	1.029	1.029	98.243	49.1	0.127	
19	19 13C-1,2,3,7,8-PeCDD	4.99e5	0.62	NO	0.887	10.000	30.994	31.05	1.207	1.210	117.85	58.9	0.214	
20	20 13C-1,2,3,4,7,8-HxCDD	3.97e5	1.28	NO	0.801	10.000	34.362	34.36	1.014	1.014	120.84	60.4	0.351	
21	21 13C-1,2,3,6,7,8-HxCDD	4.54e5	1.27	NO	0.892	10.000	34.490	34.48	1.018	1.017	124.18	62.1	0.316	
22	22 13C-1,2,3,7,8,9-HxCDD	4.91e5	1.24	NO	0.882	10.000	34.751	34.75	1.025	1.026	135.93	68.0	0.319	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.01e5	1.04	NO	0.719	10.000	38.184	38.20	1.127	1.127	136.15	68.1	0.448	
24	24 13C-OCDD	5.87e5	0.88	NO	0.563	10.000	41.113	41.13	1.213	1.214	254.49	63.6	0.578	
25	25 13C-2,3,7,8-TCDF	6.49e5	0.77	NO	1.01	10.000	25.747	25.74	1.003	1.003	92.011	46.0	0.215	
26	26 13C-1,2,3,7,8-PeCDF	6.82e5	1.58	NO	0.814	10.000	29.754	29.81	1.159	1.161	119.95	60.0	0.370	
27	27 13C-2,3,4,7,8-PeCDF	6.54e5	1.60	NO	0.768	10.000	30.791	30.86	1.200	1.202	121.84	60.9	0.392	
28	28 13C-1,2,3,4,7,8-HxCDF	4.90e5	0.50	NO	0.993	10.000	33.440	33.45	0.987	0.987	120.55	60.3	0.363	
29	29 13C-1,2,3,6,7,8-HxCDF	4.93e5	0.50	NO	0.990	10.000	33.582	33.58	0.991	0.991	121.56	60.8	0.363	
30	30 13C-2,3,4,6,7,8-HxCDF	5.02e5	0.50	NO	0.944	10.000	34.250	34.25	1.011	1.011	129.67	64.8	0.381	
31	31 13C-1,2,3,7,8,9-HxCDF	4.40e5	0.49	NO	0.842	10.000	35.266	35.26	1.041	1.041	127.66	63.8	0.428	

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-6.qld

Last Altered: Thursday, October 01, 2020 07:29:27 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 08:51:52 Pacific Daylight Time

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-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	3.71e5	0.43	NO	0.687	10.000	36.856	36.85	1.087	1.087	132.00	66.0	0.443	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.93e5	0.43	NO	0.555	10.000	38.805	38.81	1.145	1.145	128.93	64.5	0.549	
34	34 13C-OCDF	6.16e5	0.87	NO	0.608	10.000	41.394	41.42	1.221	1.222	247.22	61.8	0.586	
35	35 37Cl-2,3,7,8-TCDD	1.99e5			1.18	10.000	26.435	26.45	1.030	1.030	35.480	44.3	0.0351	
36	36 13C-1,2,3,4-TCDD	9.54e5	0.78	NO	1.00	10.000	25.740	25.67	1.000	1.000	200.00	100	0.146	
37	37 13C-1,2,3,4-TCDF	1.40e6	0.79	NO	1.00	10.000	24.310	24.20	1.000	1.000	200.00	100	0.217	
38	38 13C-1,2,3,4,6,9-HxCDF	8.19e5	0.50	NO	1.00	10.000	33.920	33.89	1.000	1.000	200.00	100	0.360	
39	39 Total Tetra-Dioxins				1.02	10.000	24.620		0.000				0.0350	
40	40 Total Penta-Dioxins				0.956	10.000	29.960		0.000				0.0306	
41	41 Total Hexa-Dioxins				0.888	10.000	33.635		0.000				0.0458	
42	42 Total Hepta-Dioxins				0.832	10.000	37.640		0.000				0.0388	
43	43 Total Tetra-Furans				0.735	10.000	23.610		0.000				0.0187	
44	44 1st Func. Penta-Furans				0.939	10.000	27.230		0.000				0.0118	
45	45 Total Penta-Furans				0.939	10.000	29.275		0.000				0.0267	
46	46 Total Hexa-Furans				0.870	10.000	33.555		0.000				0.0372	
47	47 Total Hepta-Furans				0.891	10.000	37.835		0.000				0.0398	



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-6.qld

Last Altered: Thursday, October 01, 2020 07:29:27 Pacific Daylight Time

Printed: Thursday, October 01, 2020 08:51:52 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-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\200930R1\200930R1-6.qld

Last Altered: Thursday, October 01, 2020 07:29:27 Pacific Daylight Time

Printed: Thursday, October 01, 2020 08:51:52 Pacific Daylight Time

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-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
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Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

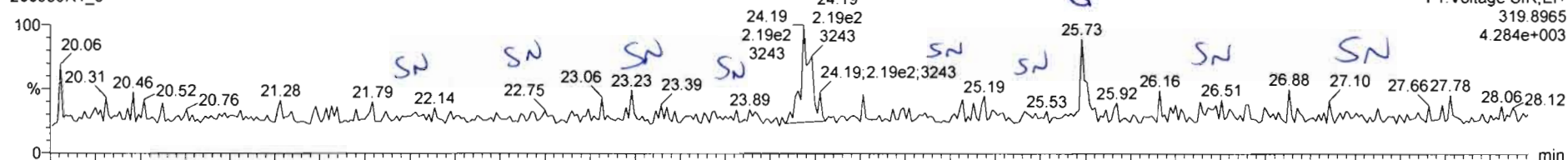
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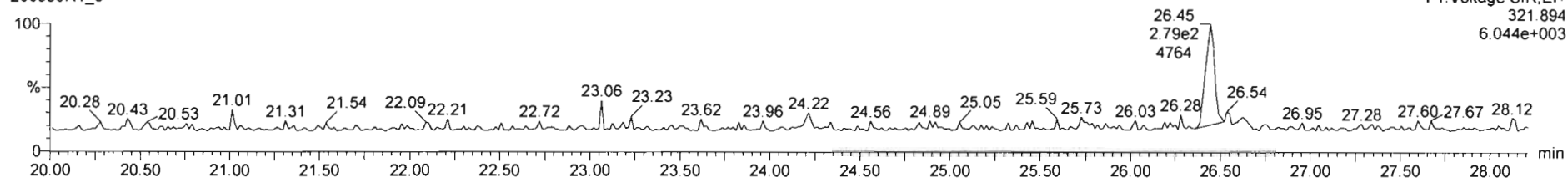
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2,3,7,8-TCDD

200930R1\_6

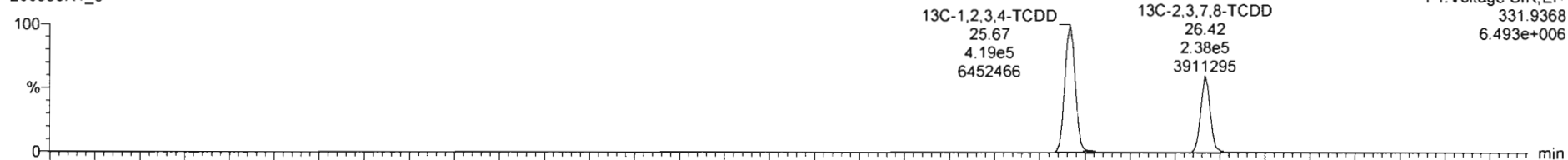


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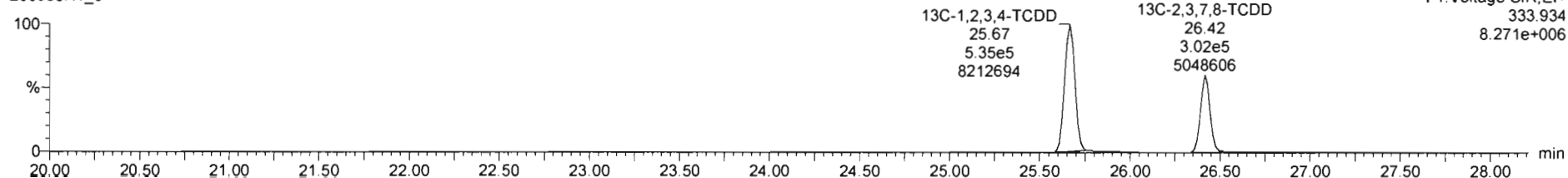


13C-2,3,7,8-TCDD

200930R1\_6



200930R1\_6



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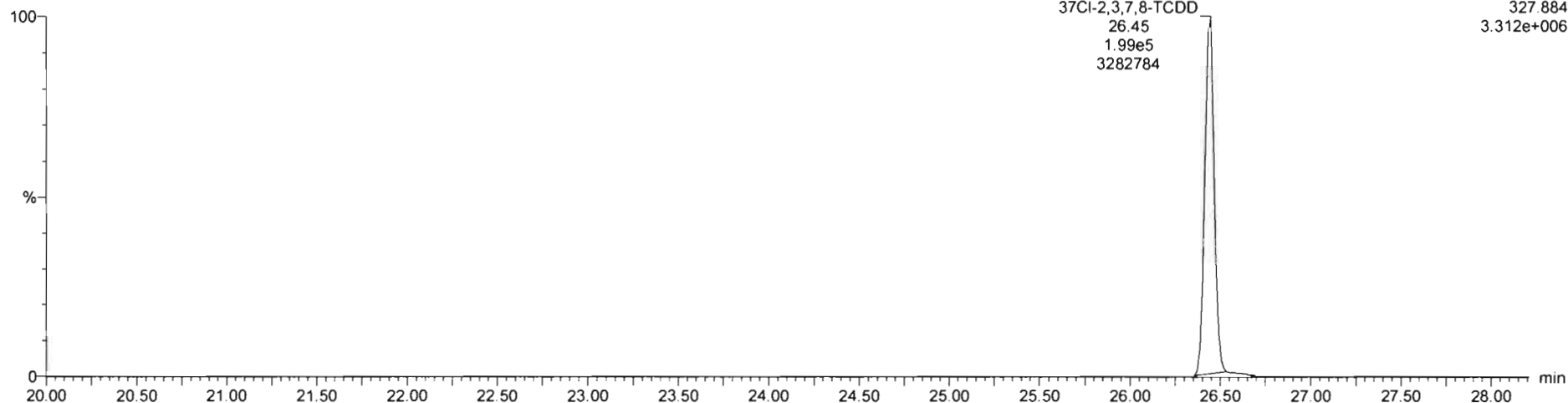
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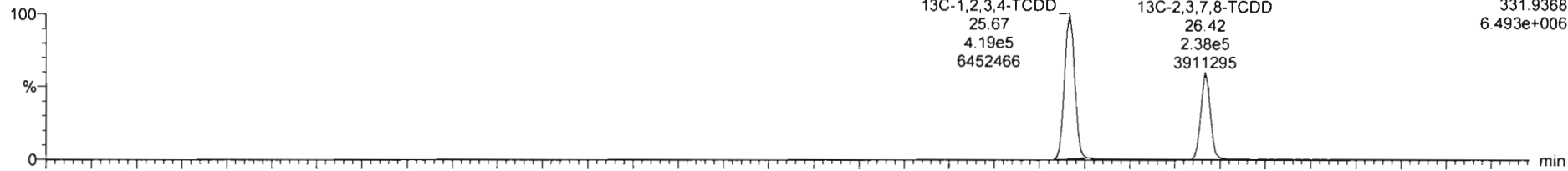
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200930R1\_6

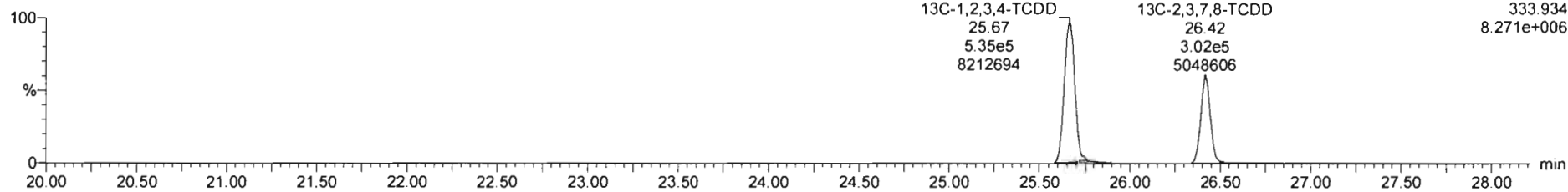


**13C-1,2,3,4-TCDD**

200930R1\_6



200930R1\_6



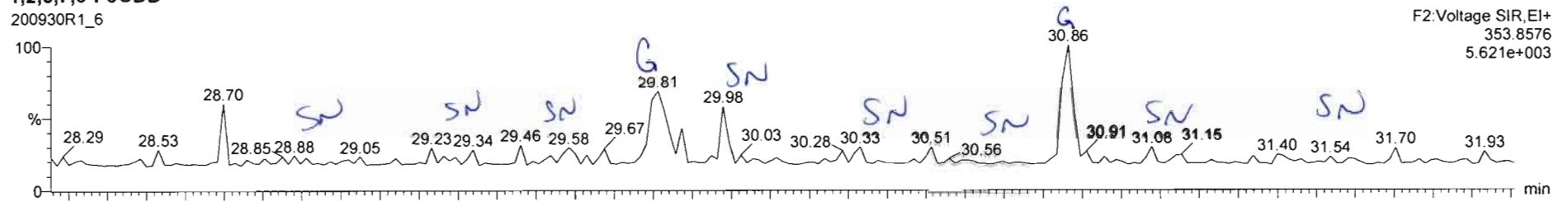
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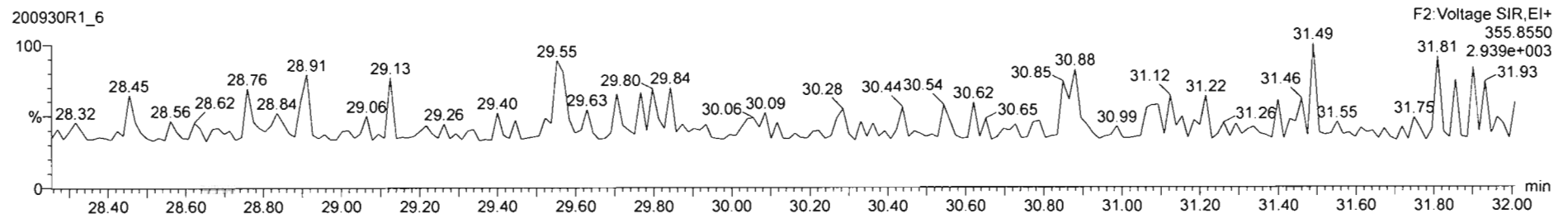
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1,2,3,7,8-PeCDD

200930R1\_6

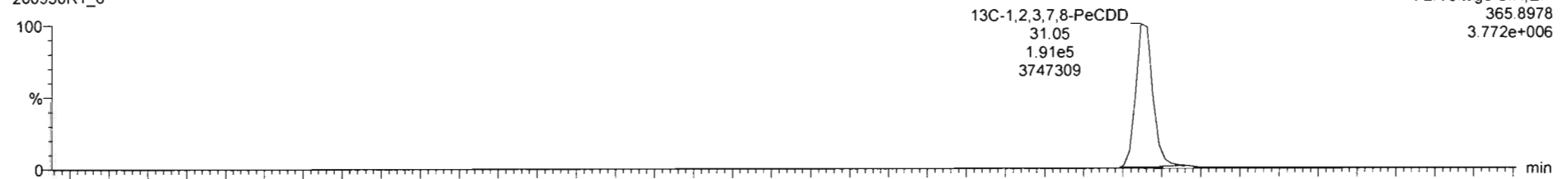


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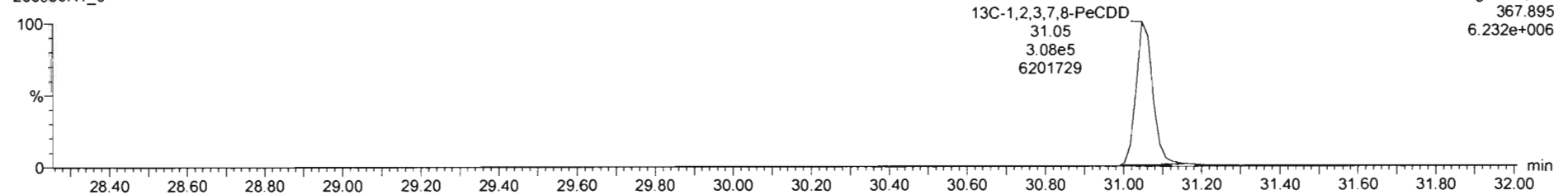


13C-1,2,3,7,8-PeCDD

200930R1\_6



200930R1\_6



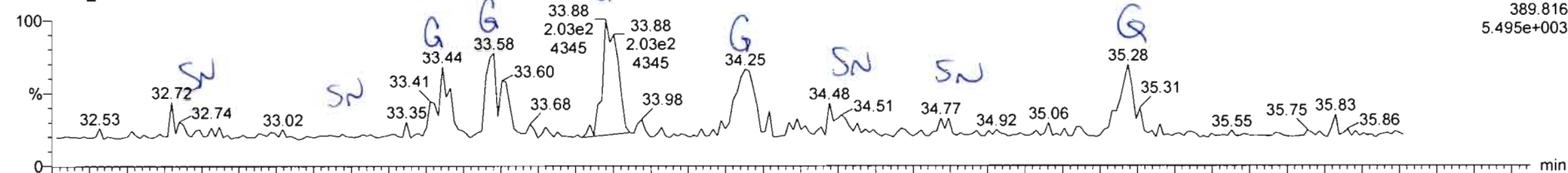
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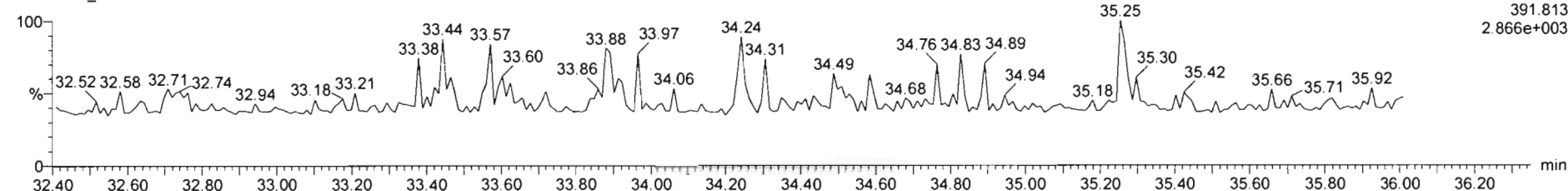
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1,2,3,4,7,8-HxCDD

200930R1\_6

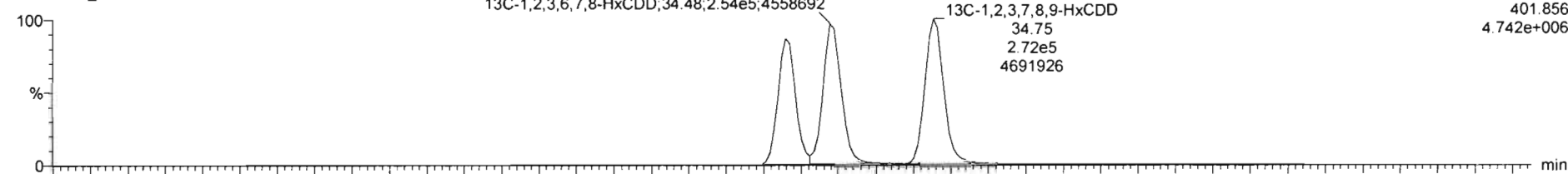


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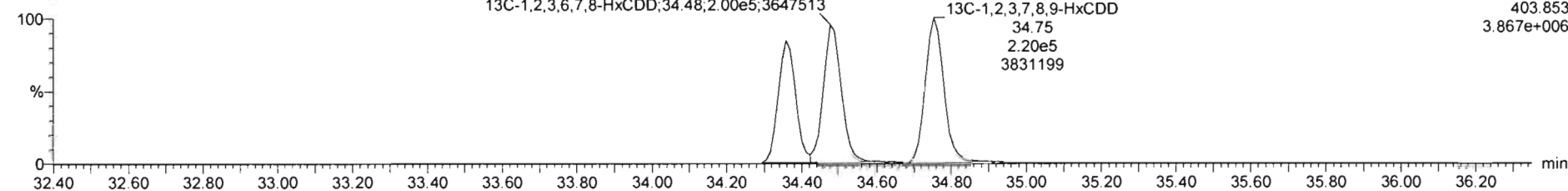


13C-1,2,3,4,7,8-HxCDD

200930R1\_6



200930R1\_6



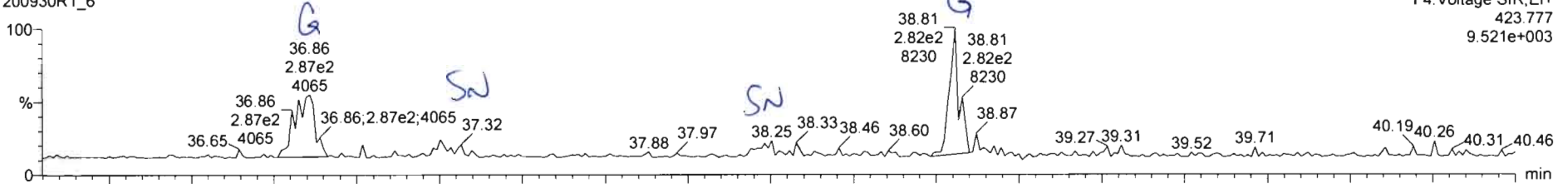
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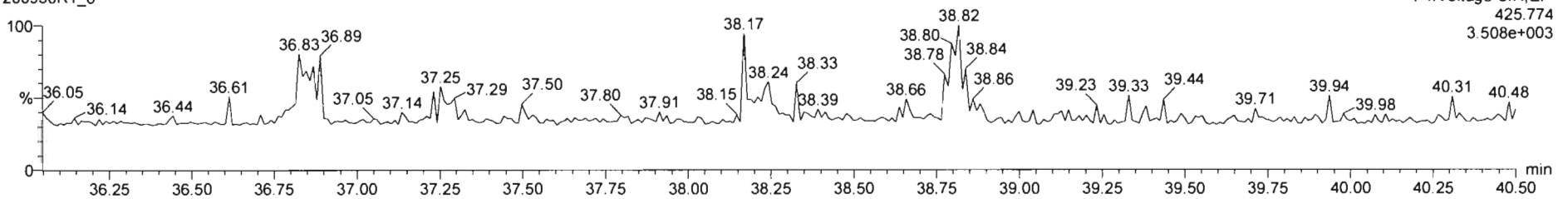
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1,2,3,4,6,7,8-HpCDD

200930R1\_6

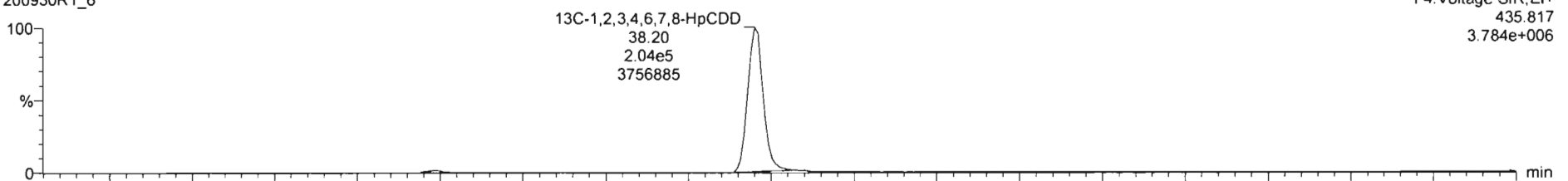


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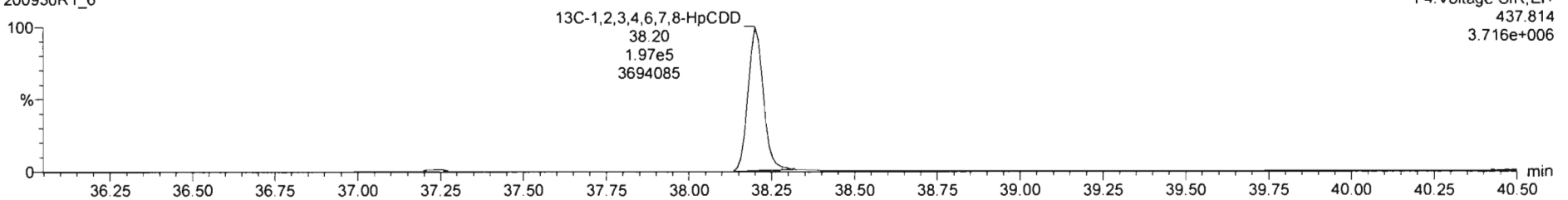


13C-1,2,3,4,6,7,8-HpCDD

200930R1\_6



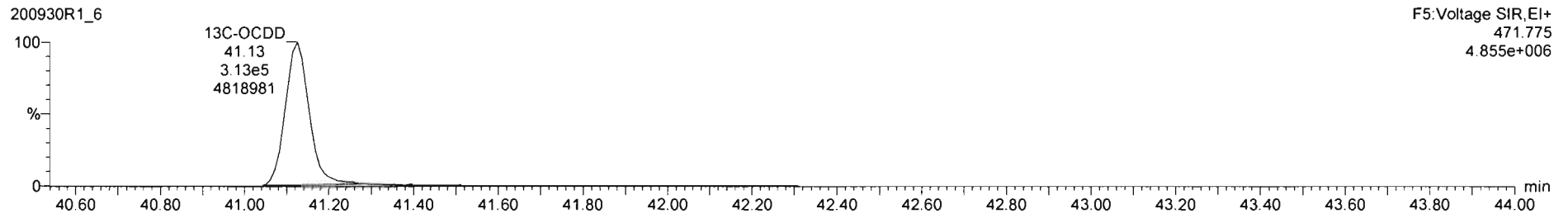
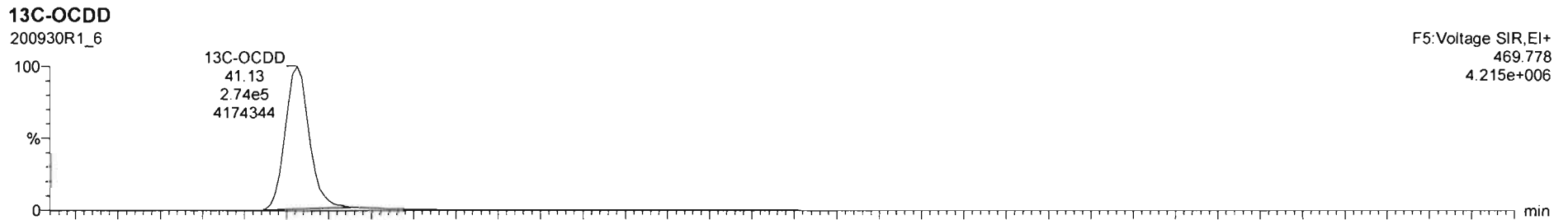
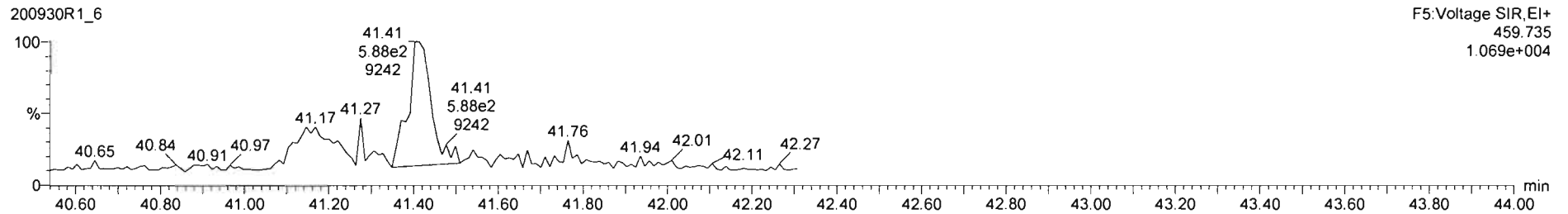
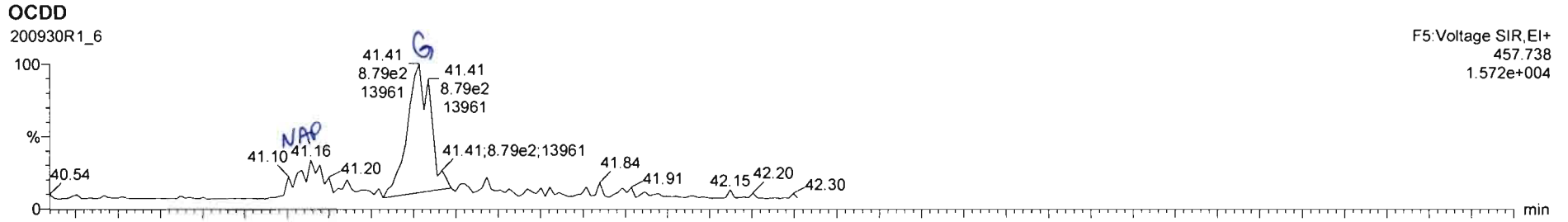
200930R1\_6



Dataset: Untitled

Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B010216-BLK1 Method Blank 10, Description: Method Blank



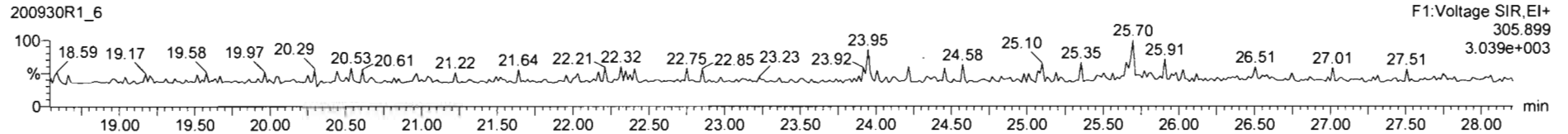
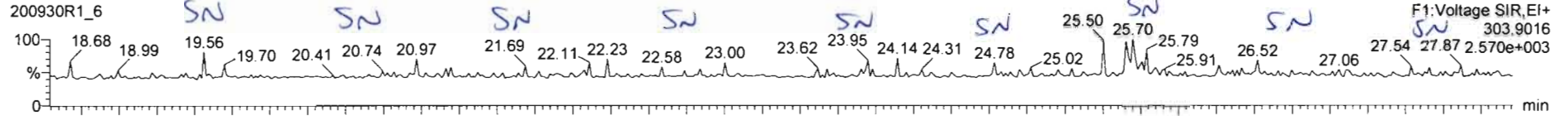


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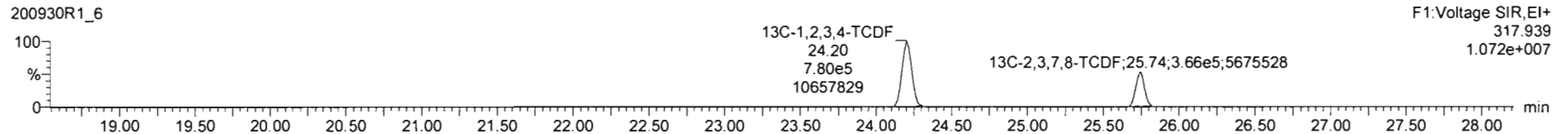
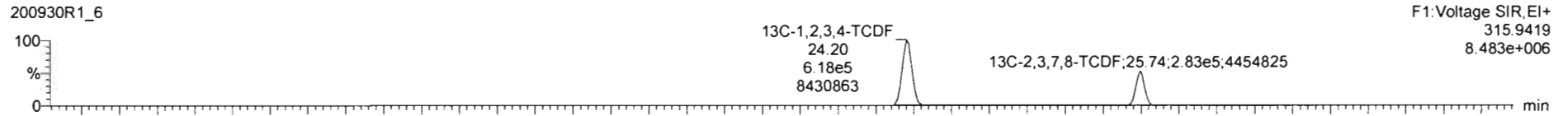
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Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-BLK1 Method Blank 10, Description: Method Blank

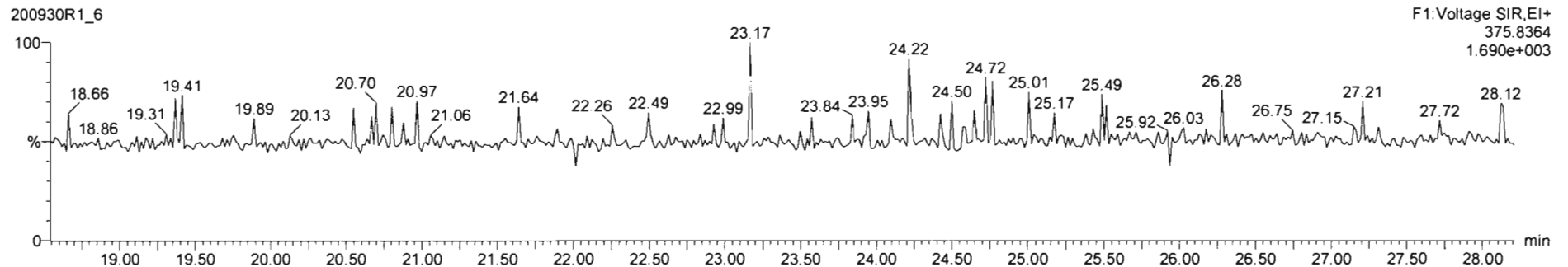
2,3,7,8-TCDF



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



DPE1



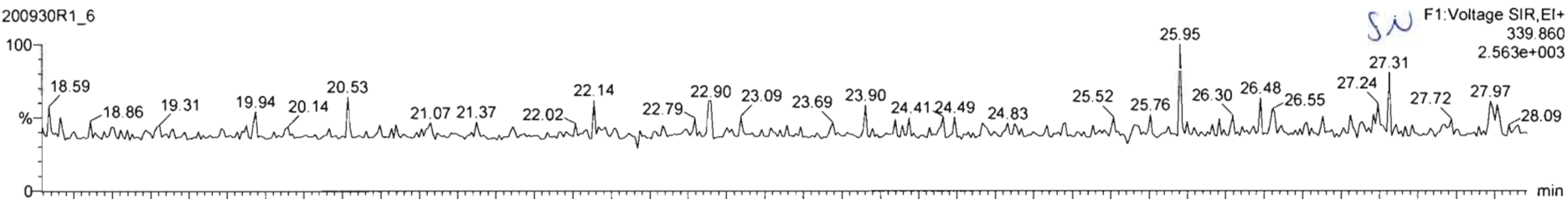
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Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

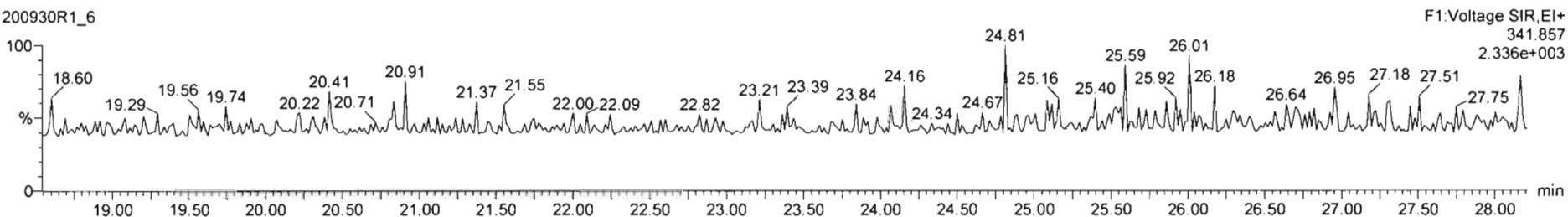
Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200930R1\_6

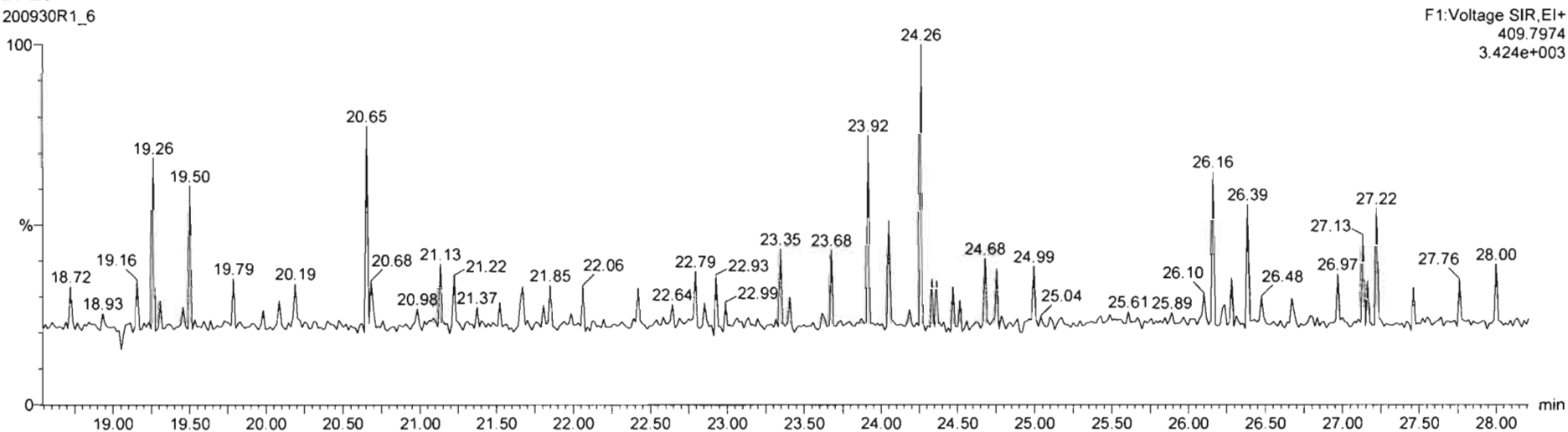


200930R1\_6



DPE6

200930R1\_6

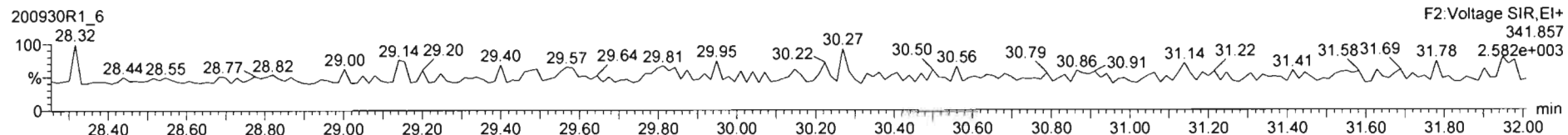
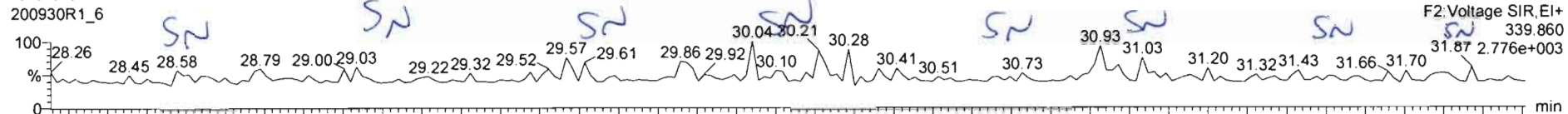


Dataset: Untitled

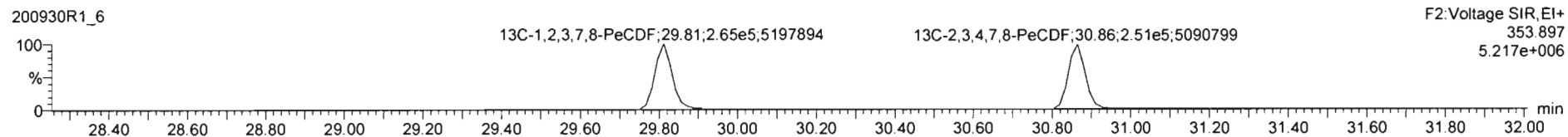
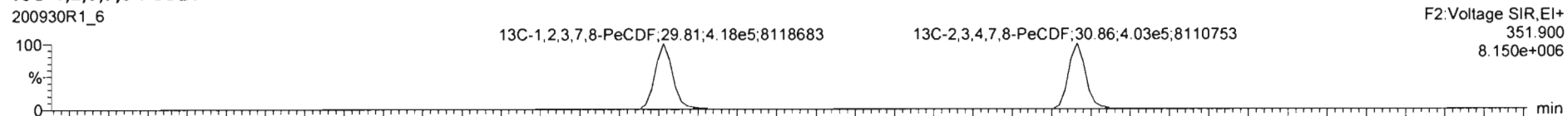
Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-BLK1 Method Blank 10, Description: Method Blank

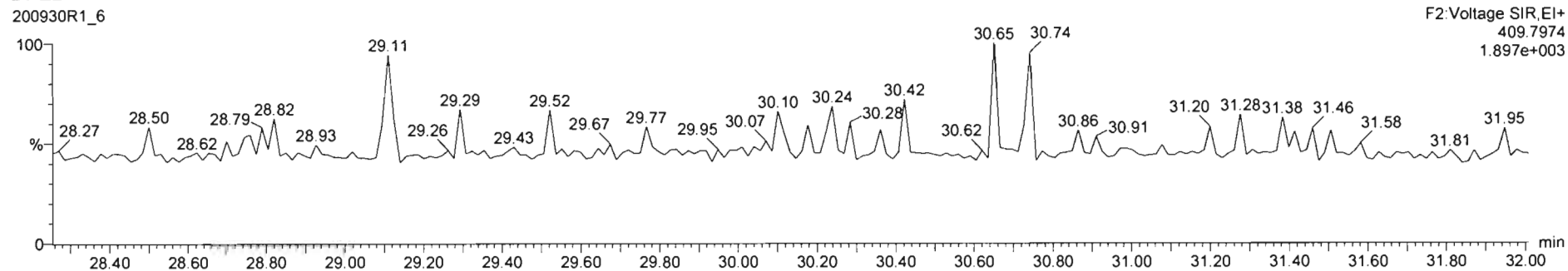
1,2,3,7,8-PeCDF



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



DPE2

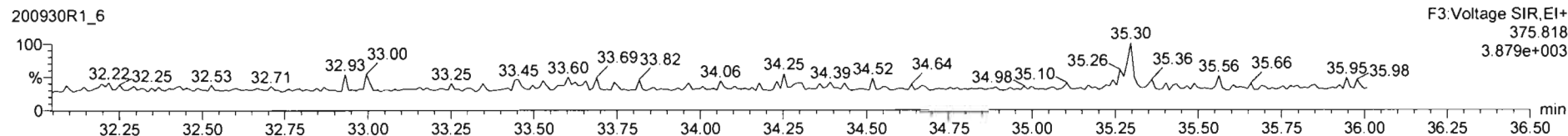
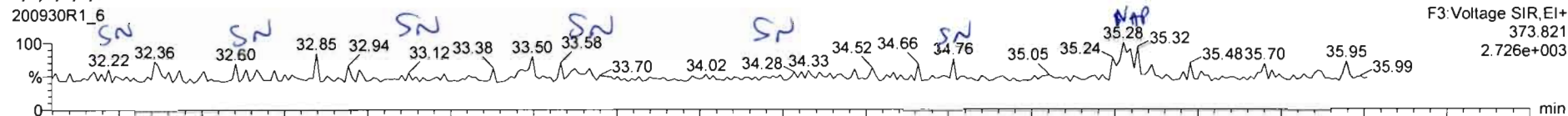


Dataset: Untitled

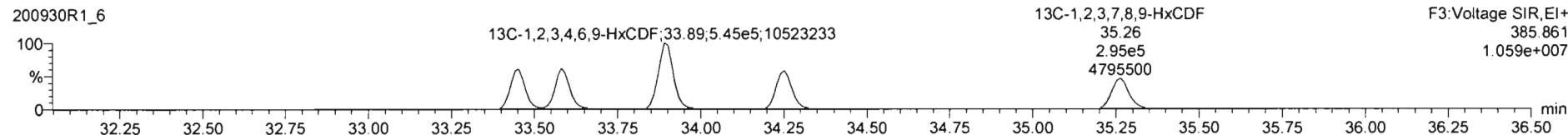
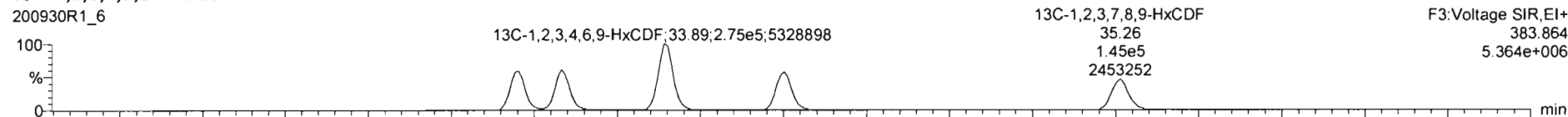
Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-BLK1 Method Blank 10, Description: Method Blank

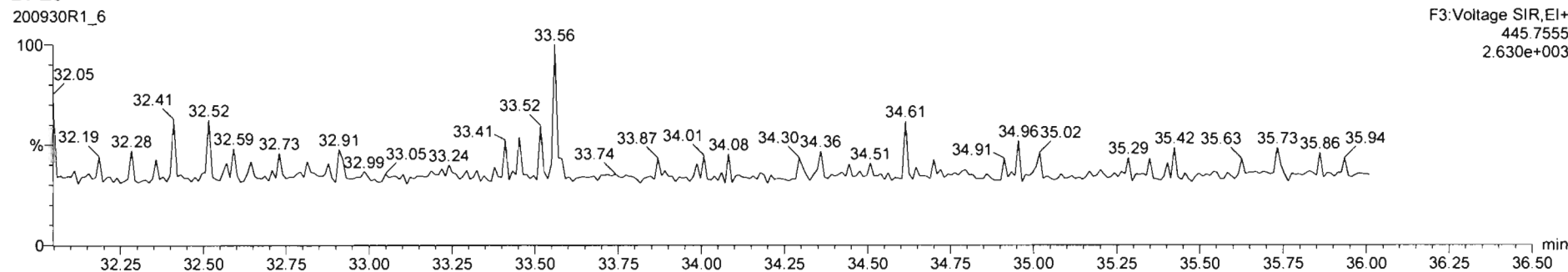
1,2,3,4,7,8-HxCDF



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



DPE3

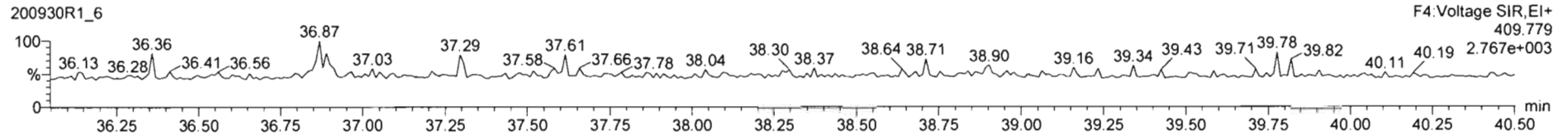
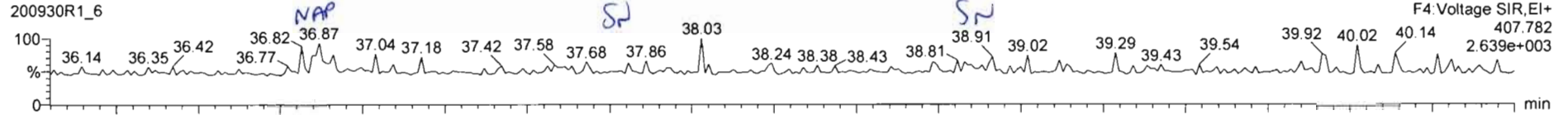


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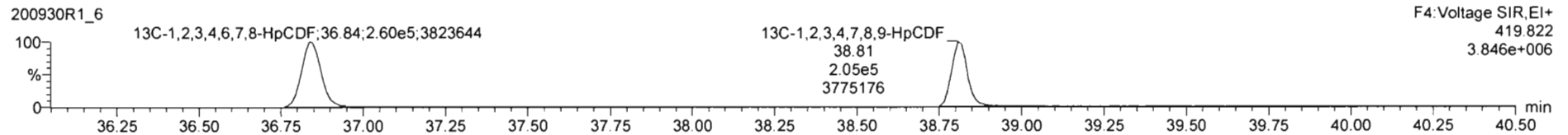
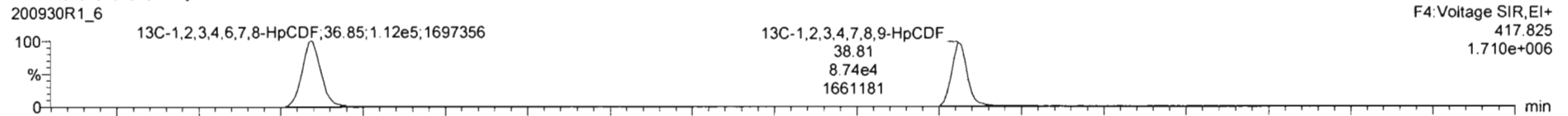
Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-BLK1 Method Blank 10, Description: Method Blank

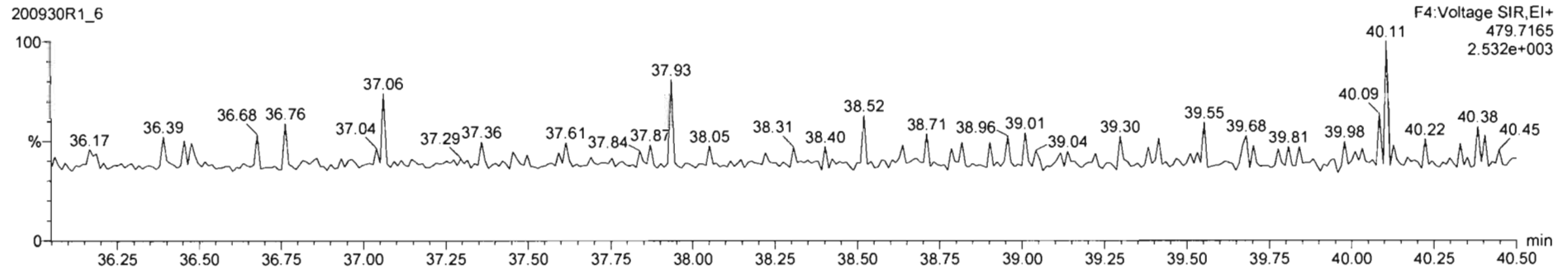
1,2,3,4,6,7,8-HpCDF



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



DPE4



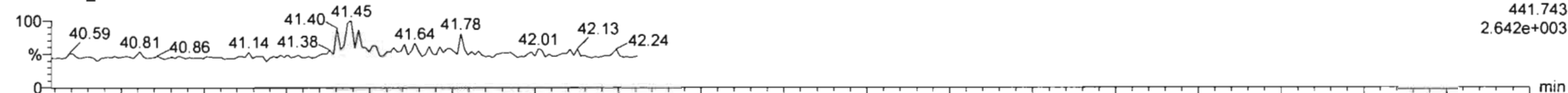
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Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-BLK1 Method Blank 10, Description: Method Blank

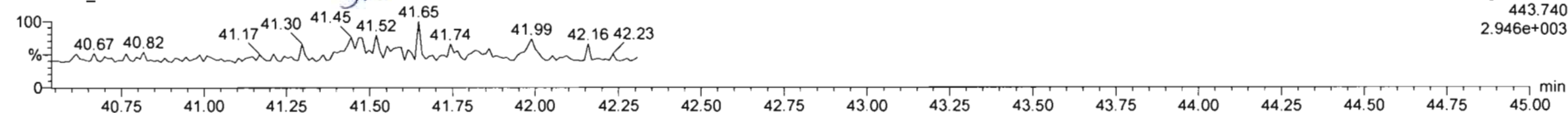
OCDF

200930R1\_6



F5: Voltage SIR, EI+  
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2.642e+003

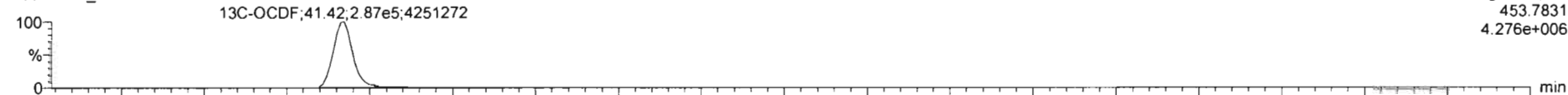
200930R1\_6



F5: Voltage SIR, EI+  
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2.946e+003

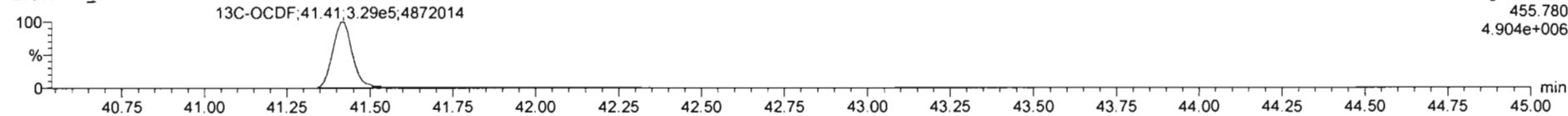
13C-OCDF

200930R1\_6



F5: Voltage SIR, EI+  
453.7831  
4.276e+006

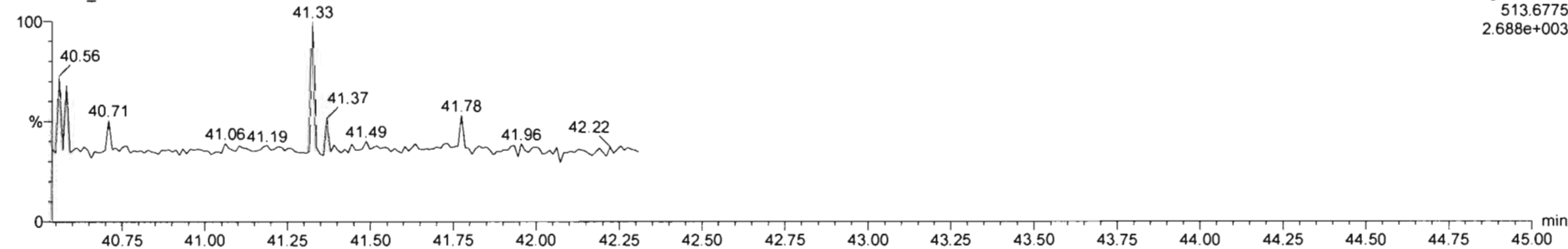
200930R1\_6



F5: Voltage SIR, EI+  
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4.904e+006

DPE5

200930R1\_6

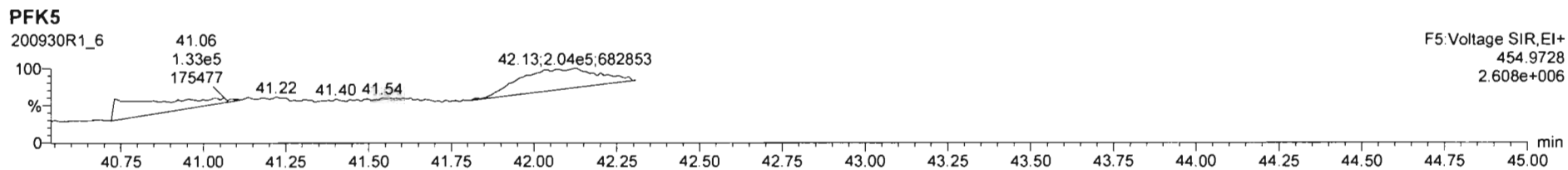
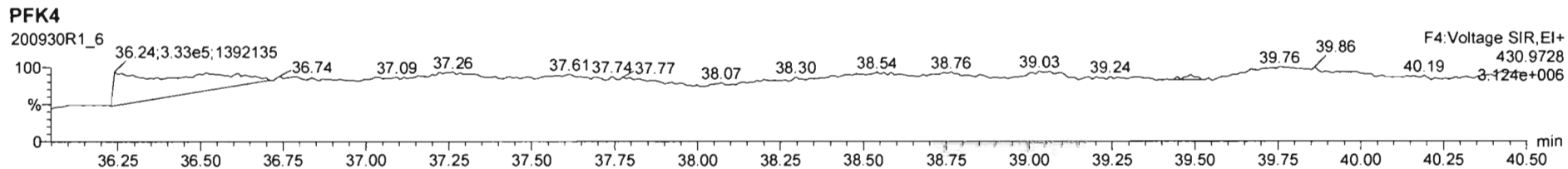
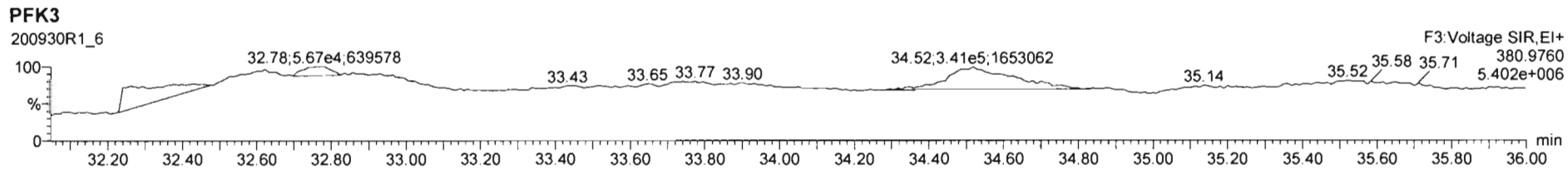
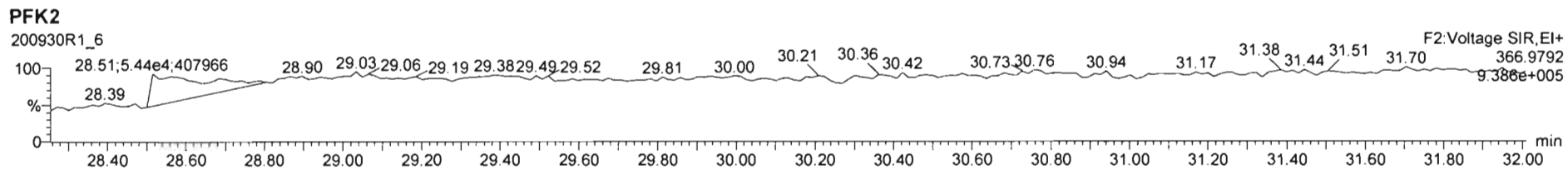
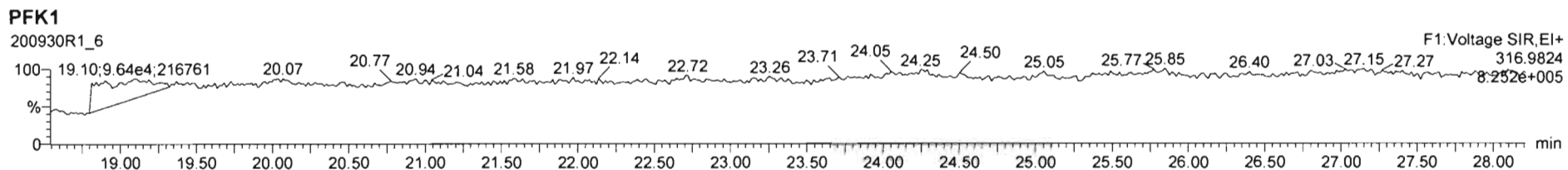


F5: Voltage SIR, EI+  
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2.688e+003

Dataset: Untitled

Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_6, Date: 30-Sep-2020, Time: 13:46:31, ID: B0I0216-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200930R1\200930R1-3.qld

Last Altered: Wednesday, September 30, 2020 12:12:58 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 08:47:17 Pacific Daylight Time

*GRB 10/01/2020*

*C7 10/01/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_3, Date: 30-Sep-2020, Time: 11:29:00, ID: B0I0216-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	7.32e4	0.77	NO	1.02	10.000	26.448	26.43	1.001	1.001	19.151		0.0645	19.2
2	2 1,2,3,7,8-PeCDD	3.64e5	0.62	NO	0.956	10.000	31.069	31.06	1.001	1.000	97.541		0.142	97.5
3	3 1,2,3,4,7,8-HxCDD	3.32e5	1.25	NO	1.00	10.000	34.359	34.36	1.000	1.000	105.92		0.187	106
4	4 1,2,3,6,7,8-HxCDD	3.42e5	1.25	NO	0.888	10.000	34.466	34.49	1.000	1.001	107.34		0.189	107
5	5 1,2,3,7,8,9-HxCDD	3.64e5	1.24	NO	0.909	10.000	34.753	34.75	1.000	1.000	107.62		0.184	108
6	6 1,2,3,4,6,7,8-HpCDD	2.87e5	1.06	NO	0.832	10.000	38.201	38.20	1.000	1.000	111.27		0.306	111
7	7 OCDD	4.29e5	0.88	NO	0.862	10.000	41.125	41.14	1.000	1.000	213.56		0.473	214
8	8 2,3,7,8-TCDF	7.16e4	0.75	NO	0.735	10.000	25.755	25.76	1.000	1.001	21.849		0.0893	21.8
9	9 1,2,3,7,8-PeCDF	5.00e5	1.52	NO	0.939	10.000	29.818	29.81	1.001	1.000	107.13		0.149	107
10	10 2,3,4,7,8-PeCDF	5.35e5	1.57	NO	1.05	10.000	30.880	30.86	1.001	1.000	106.18		0.129	106
11	11 1,2,3,4,7,8-HxCDF	3.77e5	1.22	NO	0.842	10.000	33.432	33.45	1.000	1.001	116.45		0.255	116
12	12 1,2,3,6,7,8-HxCDF	4.12e5	1.22	NO	0.894	10.000	33.581	33.59	1.000	1.001	116.70		0.245	117
13	13 2,3,4,6,7,8-HxCDF	4.00e5	1.22	NO	0.870	10.000	34.263	34.25	1.001	1.000	117.18		0.261	117
14	14 1,2,3,7,8,9-HxCDF	3.39e5	1.22	NO	0.855	10.000	35.264	35.26	1.001	1.001	115.99		0.356	116
15	15 1,2,3,4,6,7,8-HpCDF	3.20e5	1.00	NO	0.891	10.000	36.863	36.84	1.001	1.000	116.40		0.416	116
16	16 1,2,3,4,7,8,9-HpCDF	2.88e5	1.01	NO	1.00	10.000	38.807	38.82	1.000	1.000	116.66		0.377	117
17	17 OCDF	4.57e5	0.88	NO	0.784	10.000	41.413	41.43	1.000	1.000	232.92		0.603	233
18	18 13C-2,3,7,8-TCDD	7.53e5	0.79	NO	1.15	10.000	26.404	26.42	1.029	1.029	119.69	59.8	0.129	
19	19 13C-1,2,3,7,8-PeCDD	7.80e5	0.62	NO	0.887	10.000	30.994	31.05	1.207	1.210	161.15	80.6	0.188	
20	20 13C-1,2,3,4,7,8-HxCDD	6.26e5	1.28	NO	0.801	10.000	34.351	34.35	1.014	1.014	164.81	82.4	0.331	
21	21 13C-1,2,3,6,7,8-HxCDD	7.18e5	1.26	NO	0.892	10.000	34.480	34.47	1.018	1.017	169.89	84.9	0.297	
22	22 13C-1,2,3,7,8,9-HxCDD	7.44e5	1.26	NO	0.882	10.000	34.740	34.74	1.025	1.026	178.01	89.0	0.301	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.20e5	1.05	NO	0.719	10.000	38.172	38.19	1.127	1.127	182.17	91.1	0.550	
24	24 13C-OCDD	9.32e5	0.89	NO	0.563	10.000	41.100	41.13	1.213	1.214	349.62	87.4	0.624	
25	25 13C-2,3,7,8-TCDF	8.92e5	0.76	NO	1.01	10.000	25.747	25.74	1.003	1.003	110.90	55.5	0.211	
26	26 13C-1,2,3,7,8-PeCDF	9.94e5	1.57	NO	0.814	10.000	29.754	29.80	1.159	1.161	153.33	76.7	0.410	
27	27 13C-2,3,4,7,8-PeCDF	9.60e5	1.59	NO	0.768	10.000	30.791	30.85	1.200	1.202	156.95	78.5	0.435	
28	28 13C-1,2,3,4,7,8-HxCDF	7.70e5	0.50	NO	0.993	10.000	33.429	33.43	0.987	0.987	163.71	81.9	0.451	
29	29 13C-1,2,3,6,7,8-HxCDF	7.90e5	0.50	NO	0.990	10.000	33.572	33.57	0.991	0.991	168.41	84.2	0.452	
30	30 13C-2,3,4,6,7,8-HxCDF	7.86e5	0.51	NO	0.944	10.000	34.239	34.24	1.011	1.011	175.63	87.8	0.474	
31	31 13C-1,2,3,7,8,9-HxCDF	6.84e5	0.51	NO	0.842	10.000	35.255	35.24	1.041	1.040	171.51	85.8	0.532	



Dataset: U:\VG12.PRO\Results\200930R1\200930R1-3.qld

Last Altered: Wednesday, September 30, 2020 12:12:58 Pacific Daylight Time

Printed: Thursday, October 01, 2020 08:47:17 Pacific Daylight Time

Name: 200930R1\_3, Date: 30-Sep-2020, Time: 11:29:00, ID: B0I0216-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	6.17e5	0.43	NO	0.687	10.000	36.844	36.83	1.087	1.087	189.51	94.8	0.600	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.93e5	0.41	NO	0.555	10.000	38.792	38.81	1.145	1.145	187.86	93.9	0.743	
34	34 13C-OCDF	1.00e6	0.87	NO	0.608	10.000	41.381	41.41	1.221	1.222	347.74	86.9	0.592	
35	35 37Cl-2,3,7,8-TCDD	2.78e5			1.18	10.000	26.435	26.43	1.030	1.030	43.216	54.0	0.0267	
36	36 13C-1,2,3,4-TCDD	1.09e6	0.78	NO	1.00	10.000	25.740	25.67	1.000	1.000	200.00	100	0.148	
37	37 13C-1,2,3,4-TCDF	1.59e6	0.79	NO	1.00	10.000	24.310	24.22	1.000	1.000	200.00	100	0.213	
38	38 13C-1,2,3,4,6,9-HxCDF	9.47e5	0.51	NO	1.00	10.000	33.920	33.88	1.000	1.000	200.00	100	0.448	

Dataset: Untitled

Last Altered: Thursday, October 01, 2020 07:25:28 Pacific Daylight Time

Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

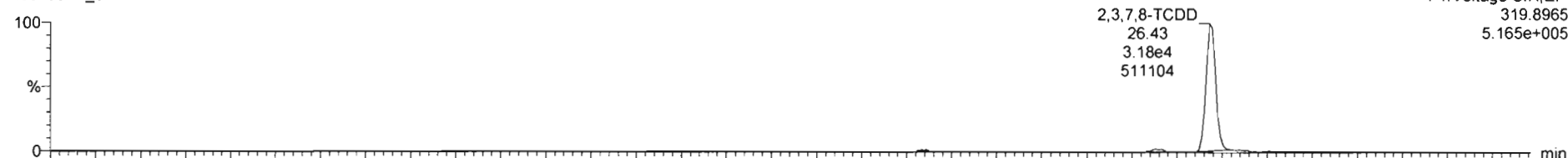
Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

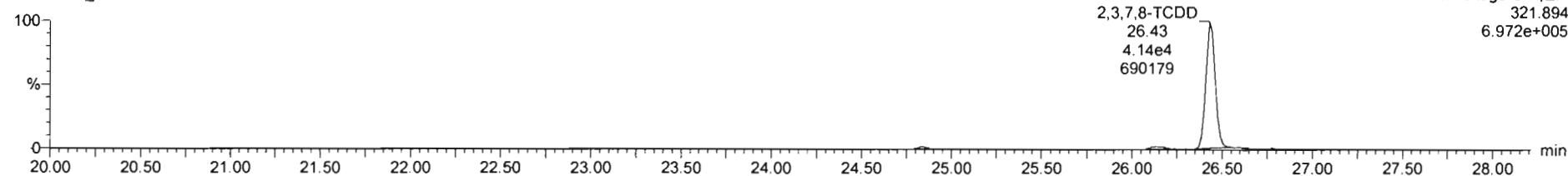
Name: 200930R1\_3, Date: 30-Sep-2020, Time: 11:29:00, ID: B0I0216-BS1 OPR 10, Description: OPR

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

200930R1\_3

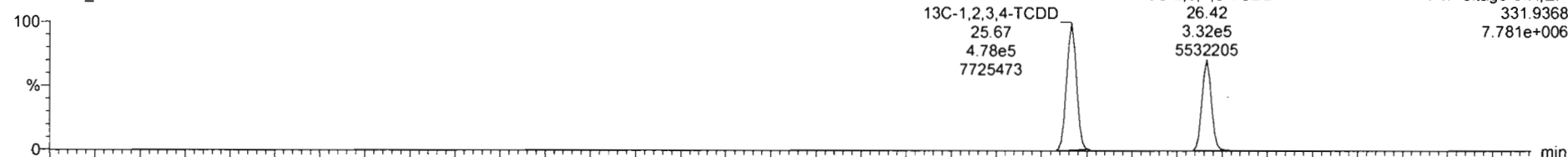


200930R1\_3

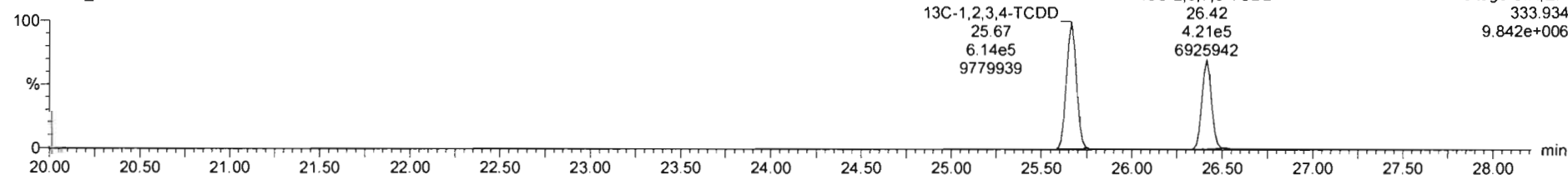


**13C-2,3,7,8-TCDD**

200930R1\_3



200930R1\_3



Dataset: Untitled

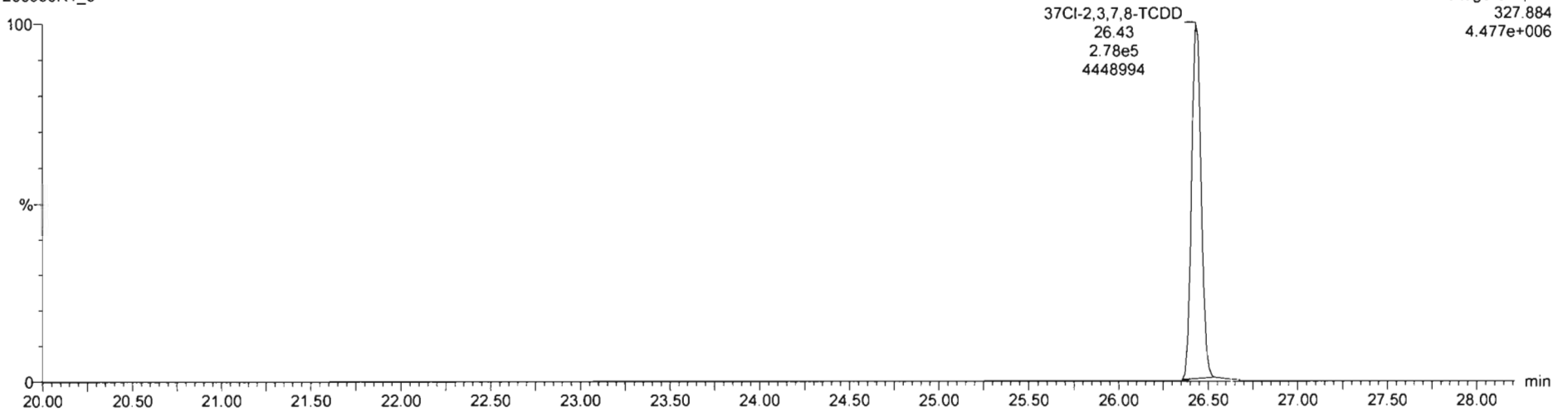
Last Altered: Thursday, October 01, 2020 07:25:28 Pacific Daylight Time

Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

Name: 200930R1\_3, Date: 30-Sep-2020, Time: 11:29:00, ID: B0I0216-BS1 OPR 10, Description: OPR

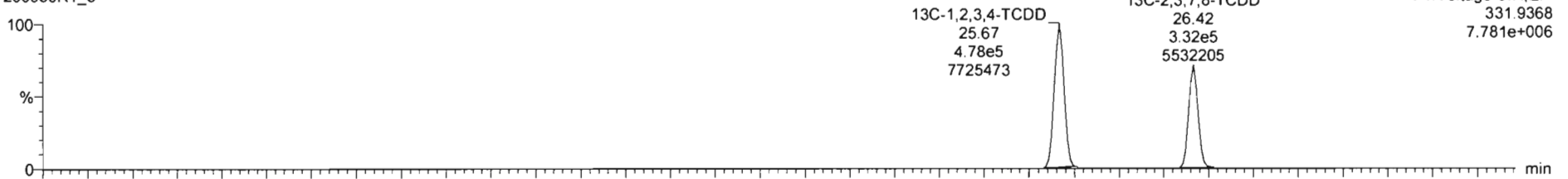
**37Cl-2,3,7,8-TCDD**

200930R1\_3

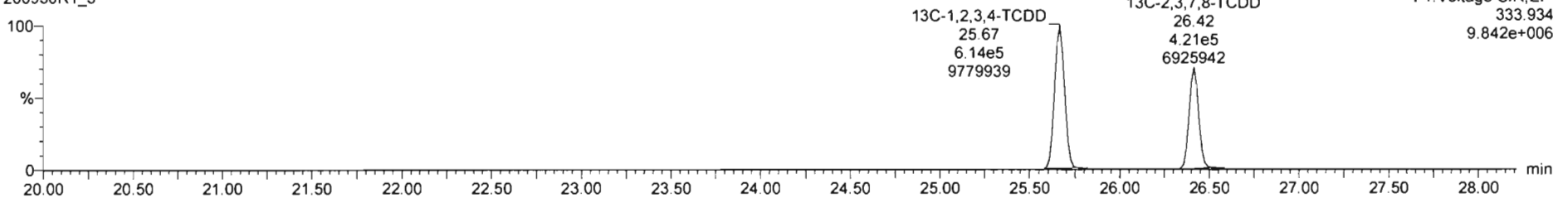


**13C-1,2,3,4-TCDD**

200930R1\_3



200930R1\_3



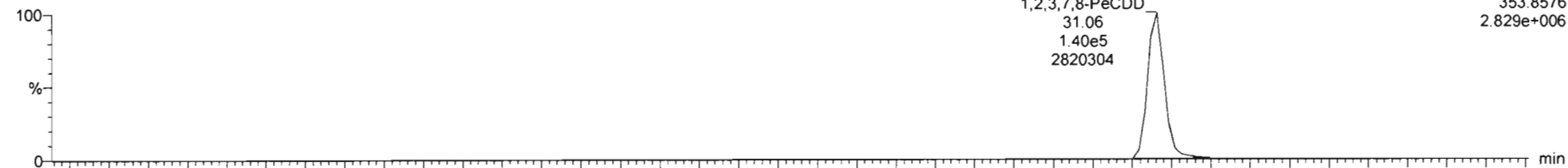
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Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

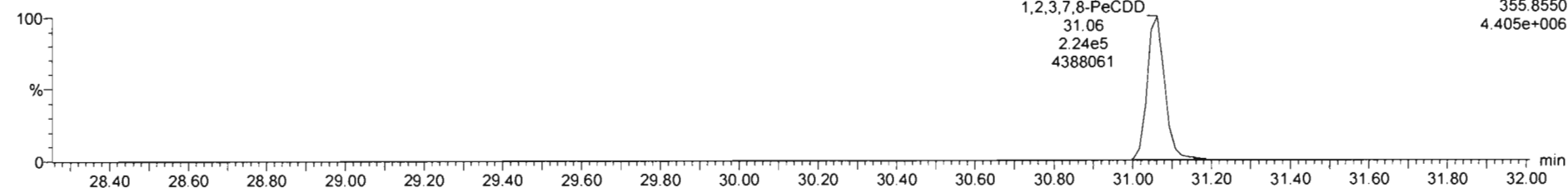
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**1,2,3,7,8-PeCDD**

200930R1\_3

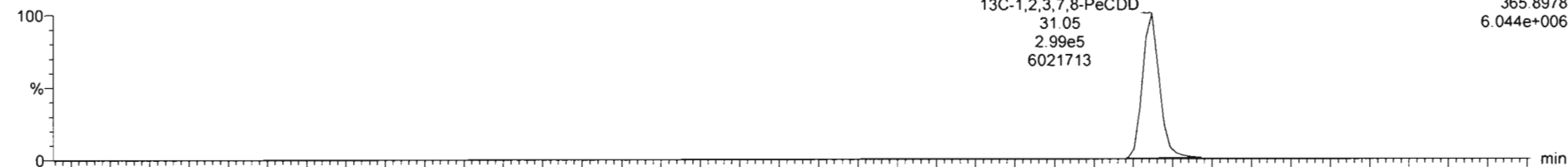


200930R1\_3

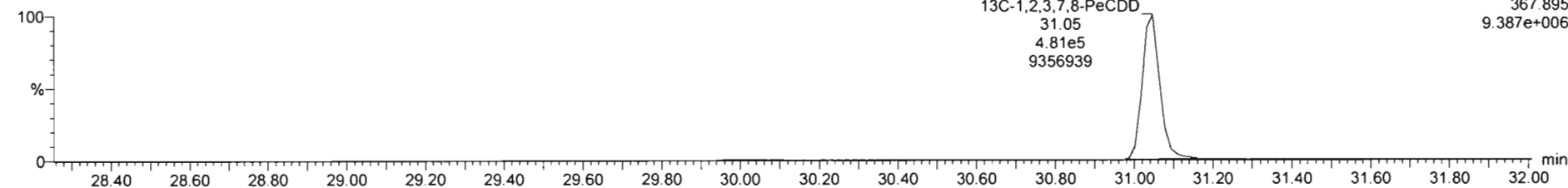


**13C-1,2,3,7,8-PeCDD**

200930R1\_3



200930R1\_3



Dataset: Untitled

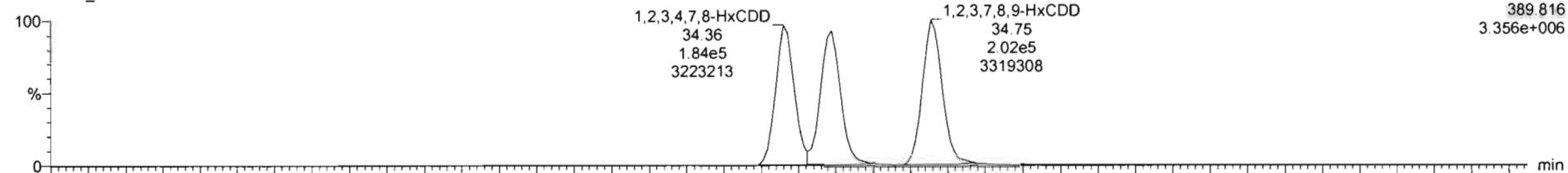
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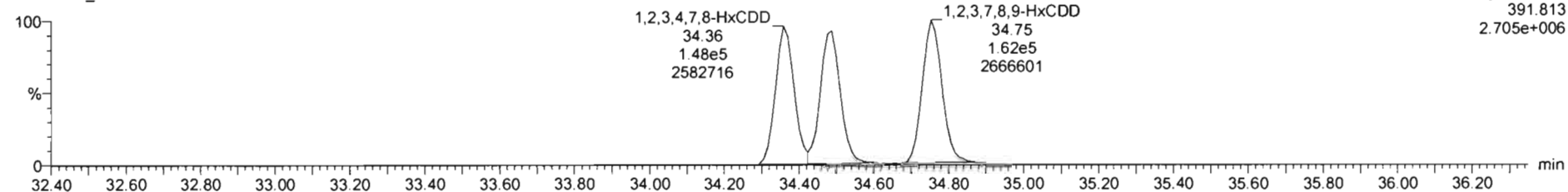
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**1,2,3,4,7,8-HxCDD**

200930R1\_3

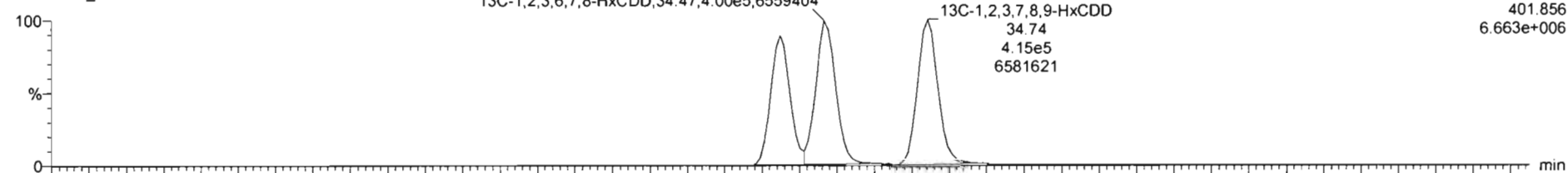


200930R1\_3

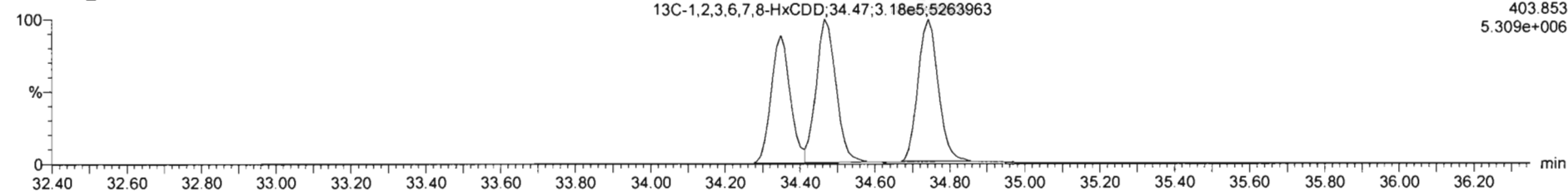


**13C-1,2,3,4,7,8-HxCDD**

200930R1\_3



200930R1\_3



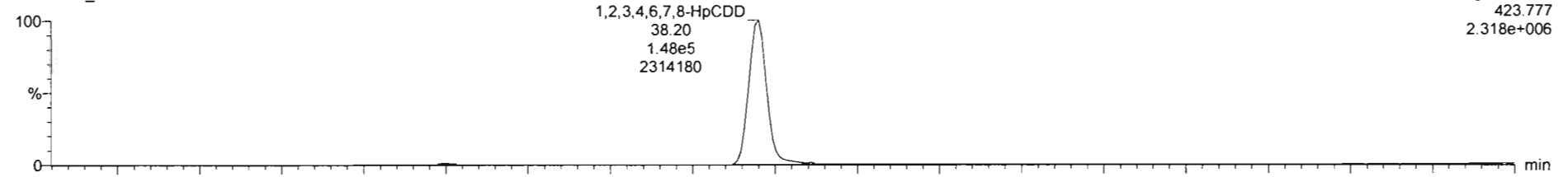
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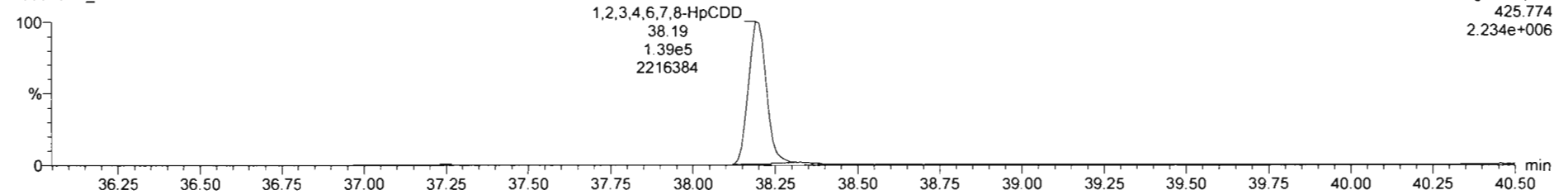
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**1,2,3,4,6,7,8-HpCDD**

200930R1\_3

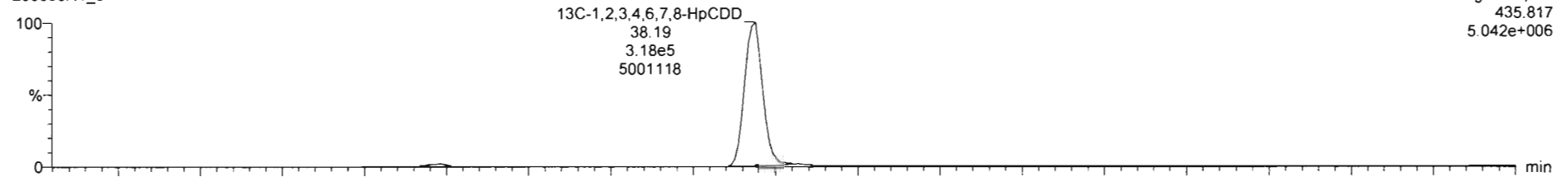


200930R1\_3

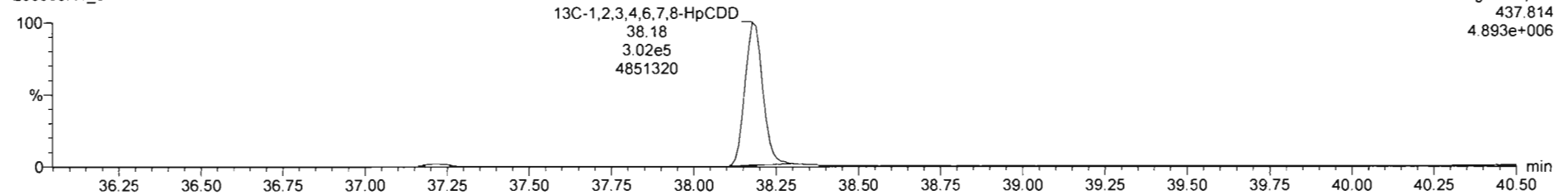


**13C-1,2,3,4,6,7,8-HpCDD**

200930R1\_3



200930R1\_3



Dataset: Untitled

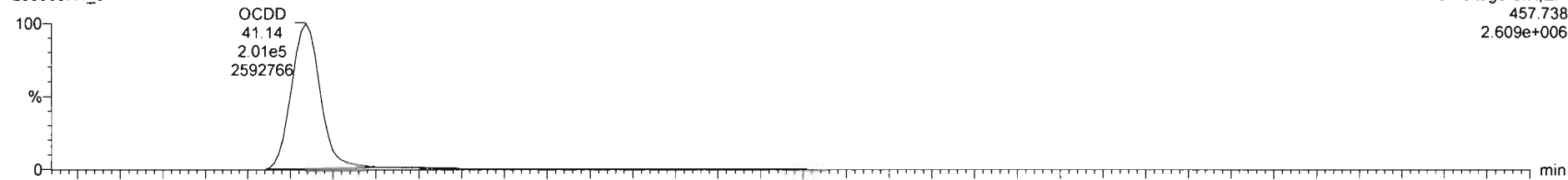
Last Altered: Thursday, October 01, 2020 07:25:28 Pacific Daylight Time

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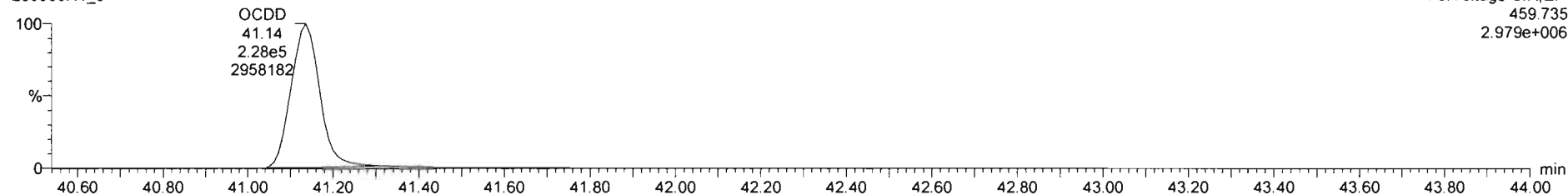
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**OCDD**

200930R1\_3

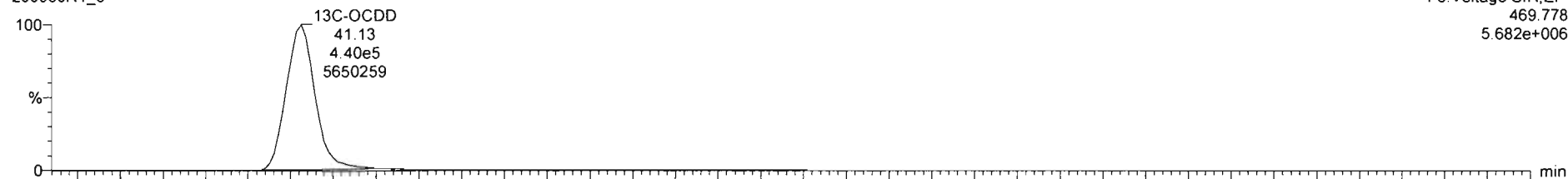


200930R1\_3

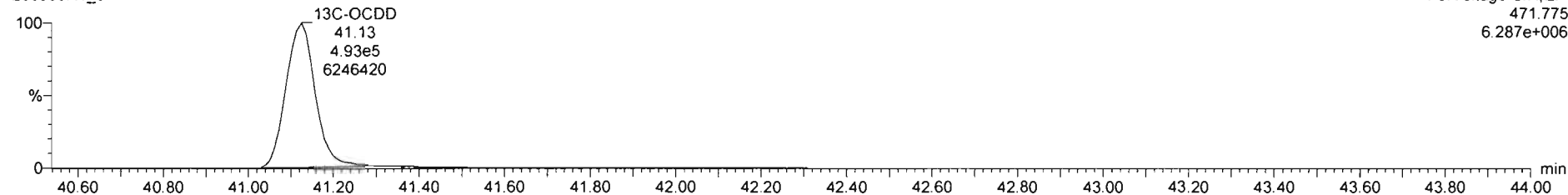


**13C-OCDD**

200930R1\_3



200930R1\_3



Dataset: Untitled

Last Altered: Thursday, October 01, 2020 07:25:28 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

Name: 200930R1\_3, Date: 30-Sep-2020, Time: 11:29:00, ID: B010216-BS1 OPR 10, Description: OPR

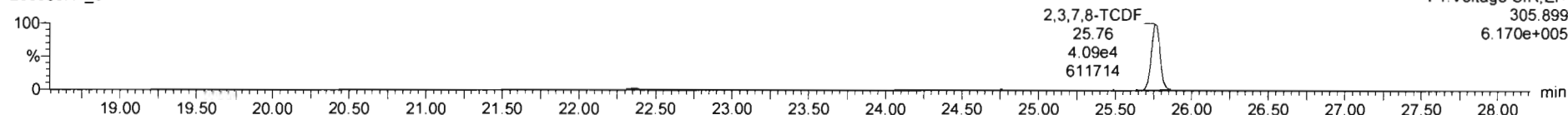
**2,3,7,8-TCDF**

200930R1\_3



F1:Voltage SIR,EI+  
303.9016  
4.745e+005

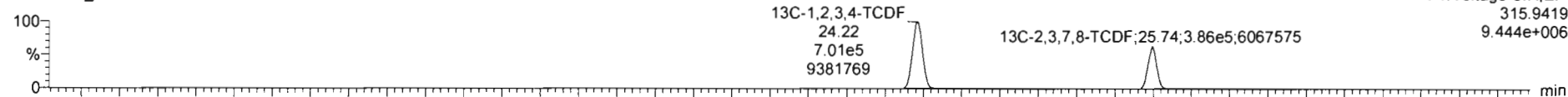
200930R1\_3



F1:Voltage SIR,EI+  
305.899  
6.170e+005

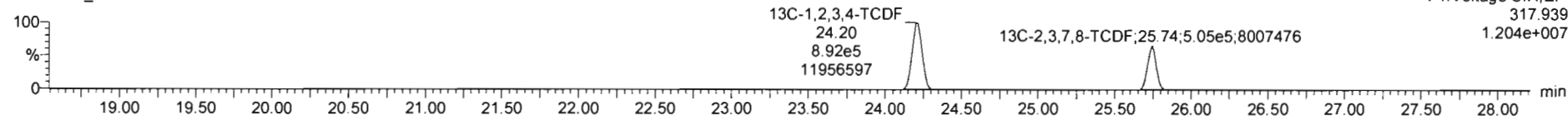
**13C-2,3,7,8-TCDF**

200930R1\_3



F1:Voltage SIR,EI+  
315.9419  
9.444e+006

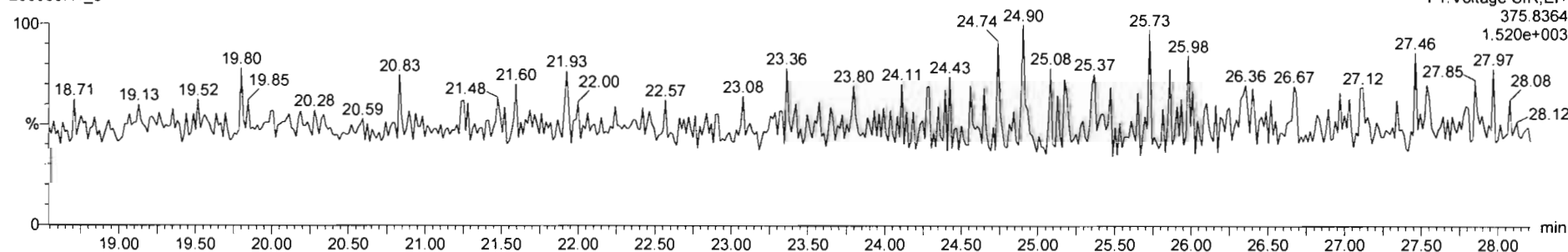
200930R1\_3



F1:Voltage SIR,EI+  
317.939  
1.204e+007

**DPE1**

200930R1\_3



F1:Voltage SIR,EI+  
375.8364  
1.520e+003



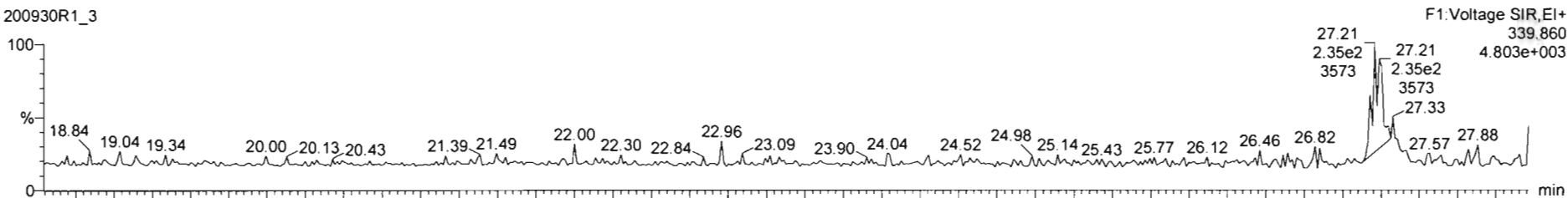
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Last Altered: Thursday, October 01, 2020 07:25:28 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

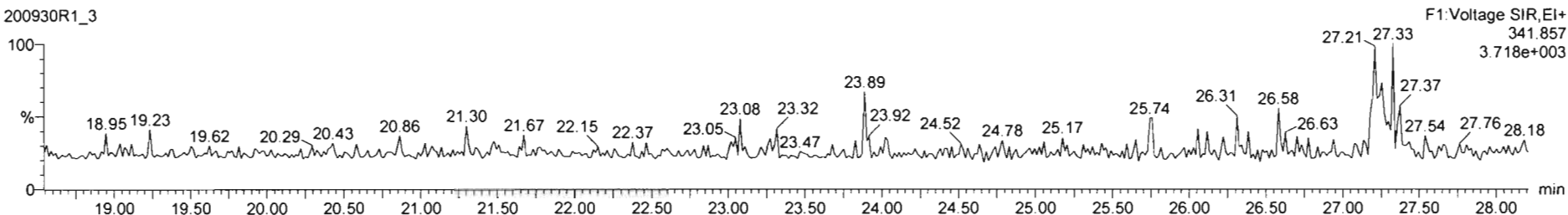
Name: 200930R1\_3, Date: 30-Sep-2020, Time: 11:29:00, ID: B010216-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans

200930R1\_3

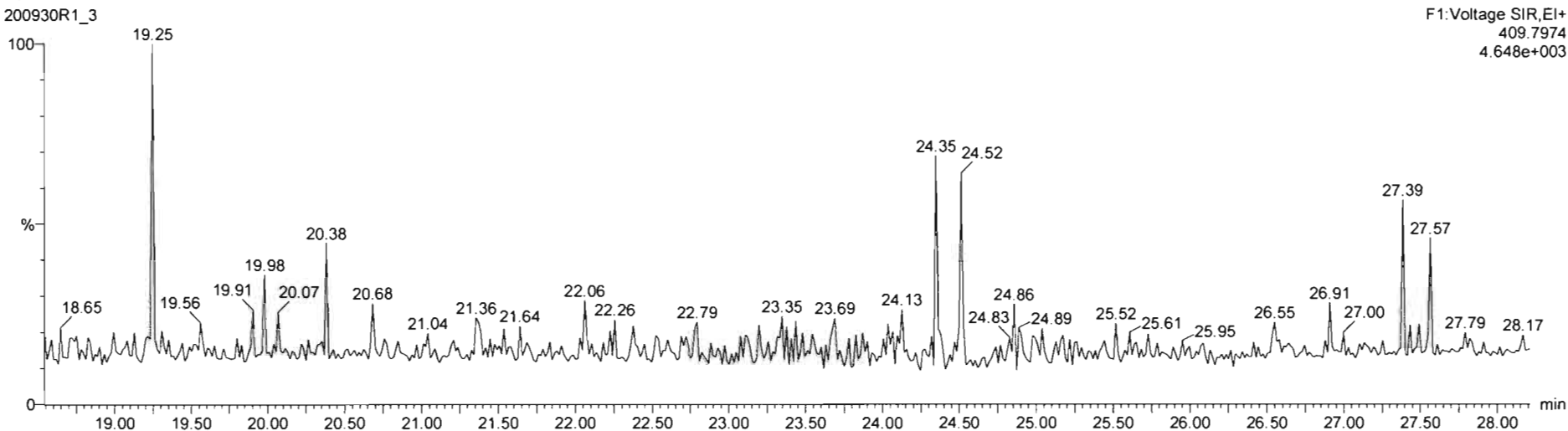


200930R1\_3



DPE6

200930R1\_3



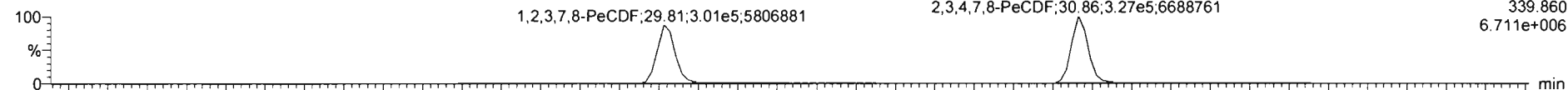
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Last Altered: Thursday, October 01, 2020 07:25:28 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

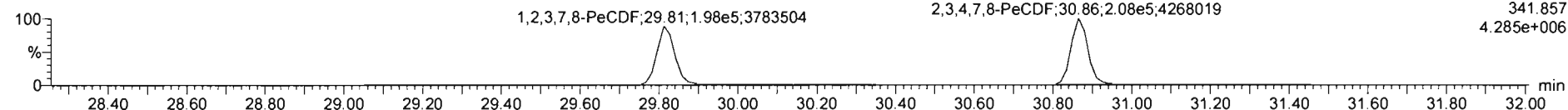
Name: 200930R1\_3, Date: 30-Sep-2020, Time: 11:29:00, ID: B0I0216-BS1 OPR 10, Description: OPR

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

200930R1\_3

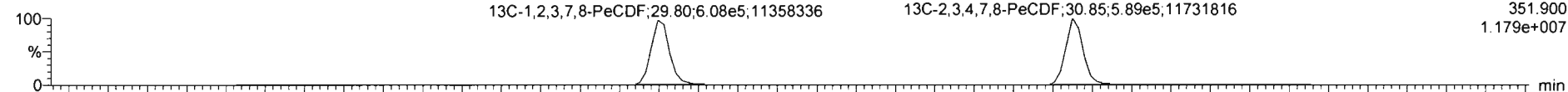


200930R1\_3

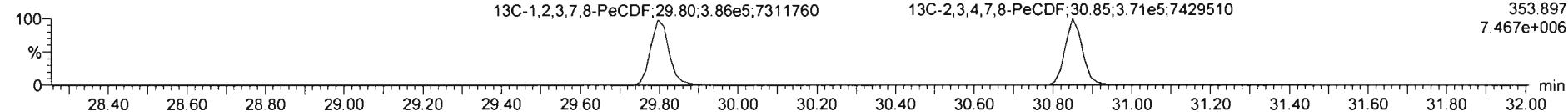


**13C-1,2,3,7,8-PeCDF**

200930R1\_3

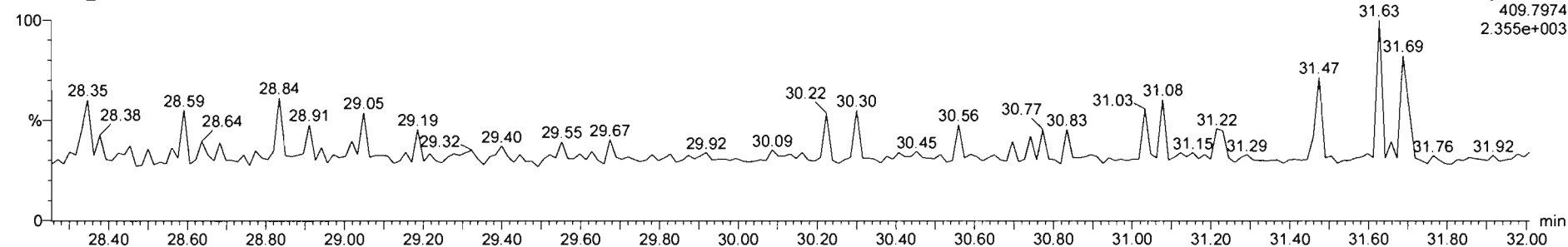


200930R1\_3



**DPE2**

200930R1\_3



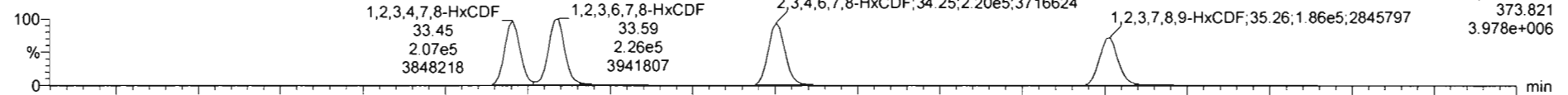
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Last Altered: Thursday, October 01, 2020 07:25:28 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

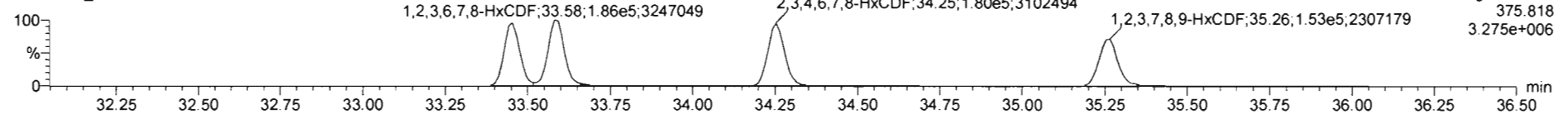
Name: 200930R1\_3, Date: 30-Sep-2020, Time: 11:29:00, ID: B0I0216-BS1 OPR 10, Description: OPR

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

200930R1\_3

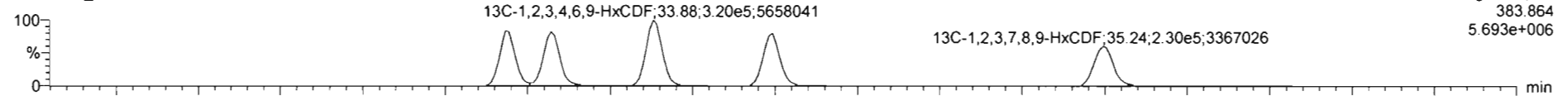


200930R1\_3

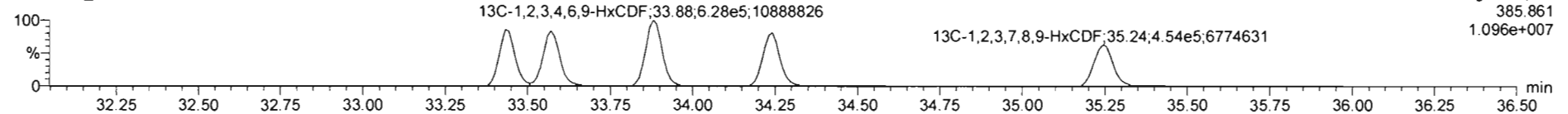


**13C-1,2,3,4,7,8-HxCDF**

200930R1\_3

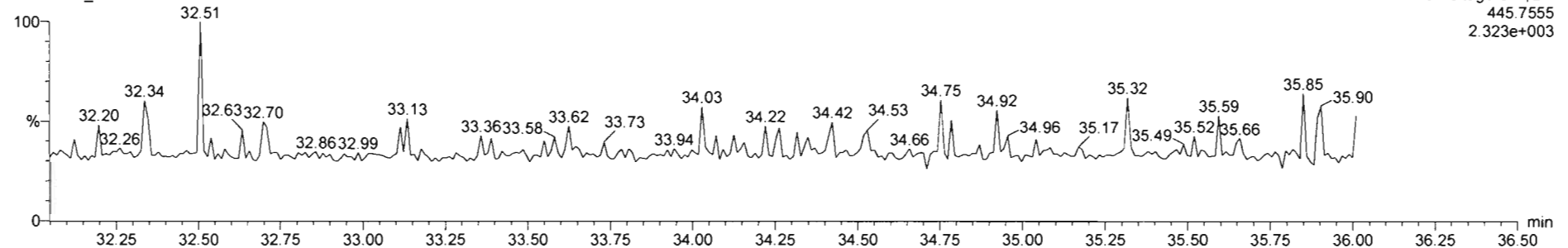


200930R1\_3



**DPE3**

200930R1\_3



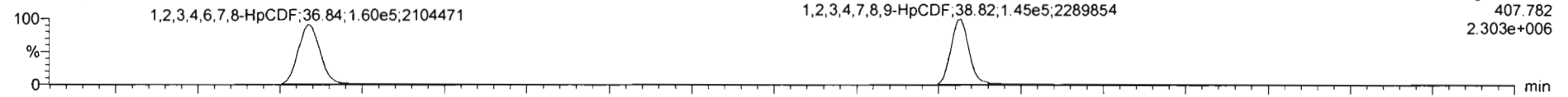
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Last Altered: Thursday, October 01, 2020 07:25:28 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

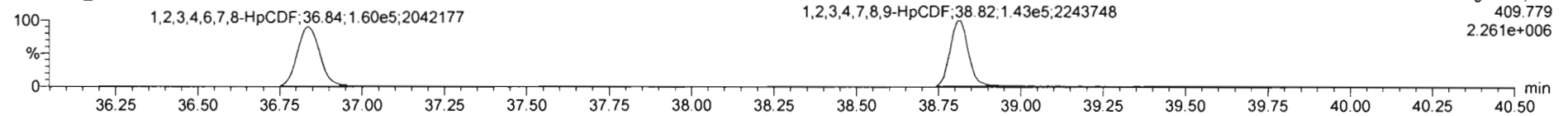
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**1,2,3,4,6,7,8-HpCDF**

200930R1\_3

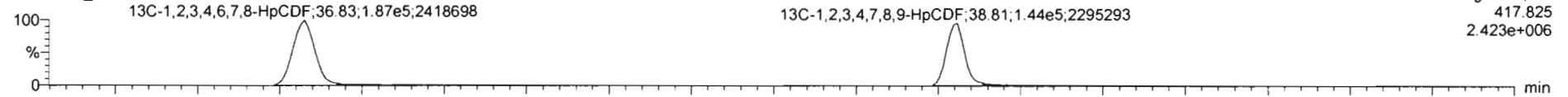


200930R1\_3

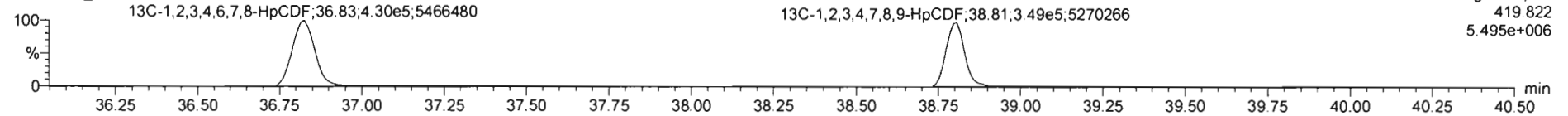


**13C-1,2,3,4,6,7,8-HpCDF**

200930R1\_3

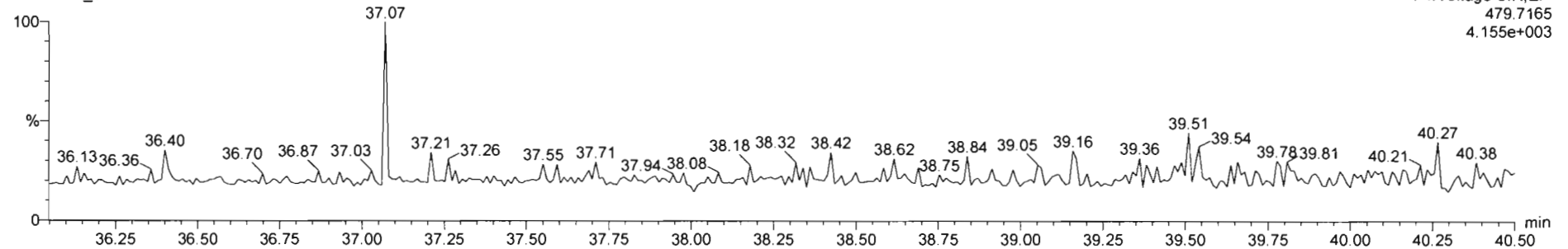


200930R1\_3



**DPE4**

200930R1\_3



Dataset: Untitled

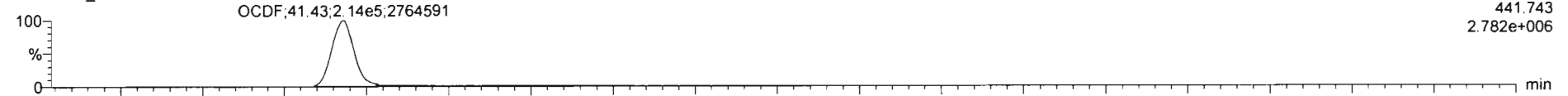
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Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

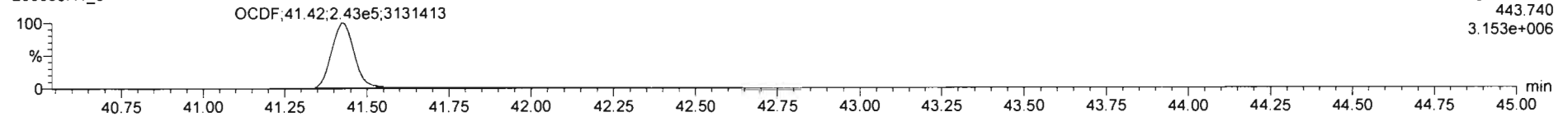
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**OCDF**

200930R1\_3

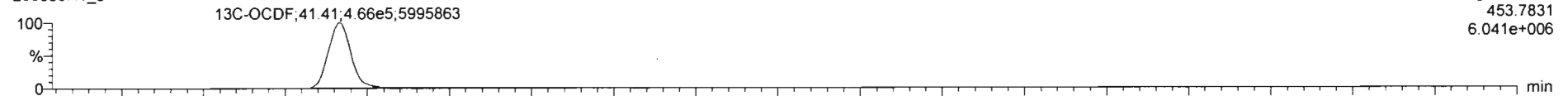


200930R1\_3

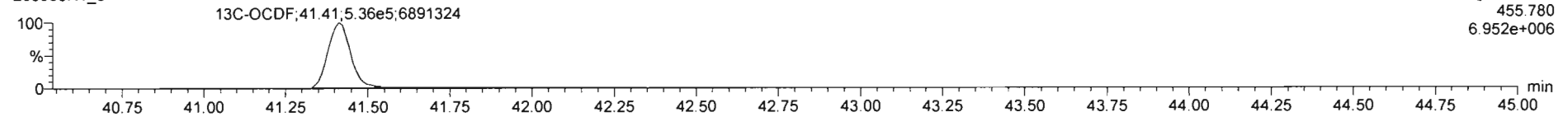


**13C-OCDF**

200930R1\_3

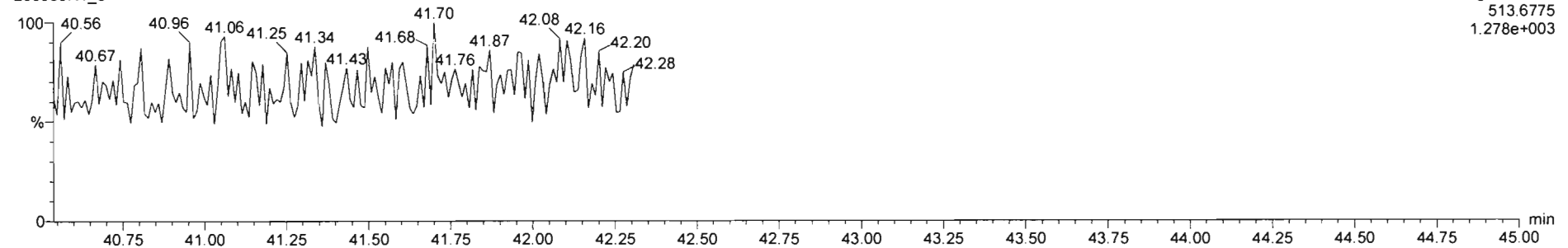


200930R1\_3



**DPE5**

200930R1\_3

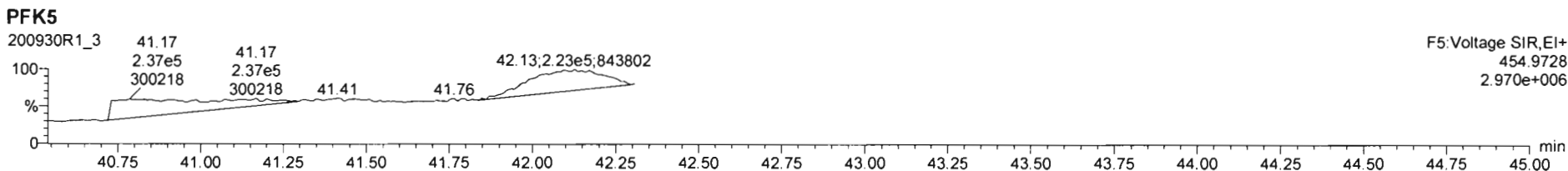
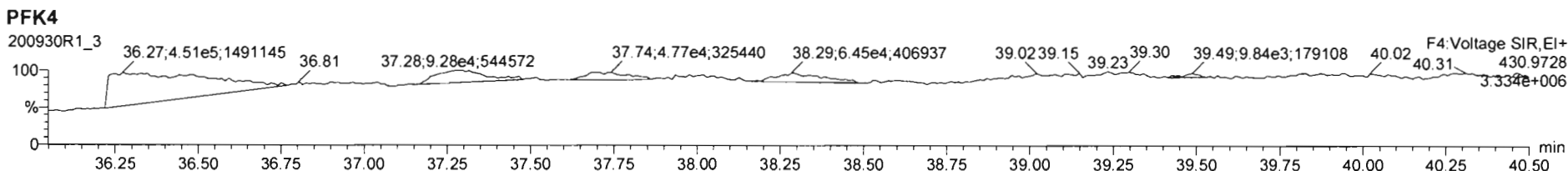
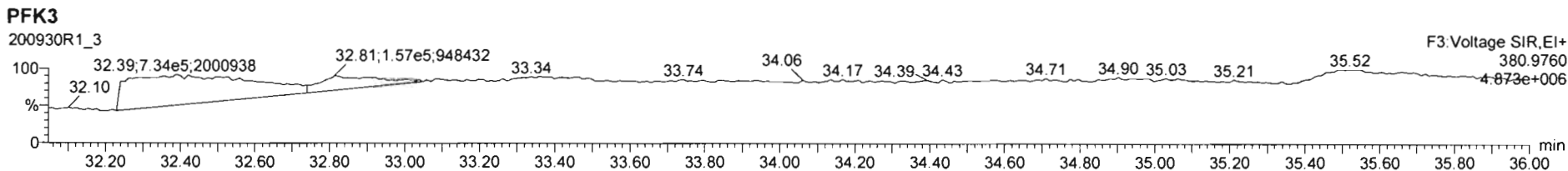
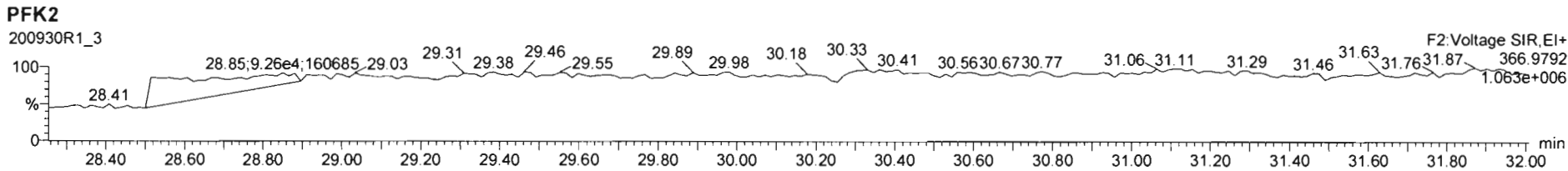
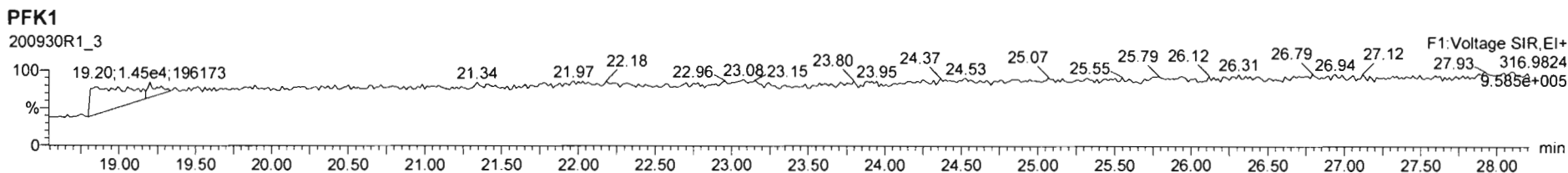


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Last Altered: Thursday, October 01, 2020 07:25:28 Pacific Daylight Time

Printed: Thursday, October 01, 2020 07:25:31 Pacific Daylight Time

Name: 200930R1\_3, Date: 30-Sep-2020, Time: 11:29:00, ID: B0I0216-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-13.qld

Last Altered: Monday, October 12, 2020 3:31:37 PM Pacific Daylight Time  
Printed: Wednesday, October 14, 2020 8:02:05 AM Pacific Daylight Time

10/14/2020  
GRB 10/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

ML  
10/12/2020

Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-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	1.03	10.000	26.355		1.001				0.0556	
2	2 1,2,3,7,8-PeCDD			NO	0.929	10.000	30.996		1.000				0.0788	
3	3 1,2,3,4,7,8-HxCDD			NO	1.08	10.000	34.323		1.001				0.117	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.000	34.423		1.000				0.121	
5	5 1,2,3,7,8,9-HxCDD			NO	0.996	10.000	34.700		1.000				0.124	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.946	10.000	38.147		1.000				0.105	
7	7 OCDD			NO	0.925	10.000	41.083		1.000				0.441	
8	8 2,3,7,8-TCDF			NO	0.869	10.000	25.675		1.000				0.0445	
9	9 1,2,3,7,8-PeCDF			NO	0.989	10.000	29.745		1.000				0.0753	
10	10 2,3,4,7,8-PeCDF			NO	1.10	10.000	30.788		1.000				0.0752	
11	11 1,2,3,4,7,8-HxCDF			NO	0.996	10.000	33.379		1.000				0.0968	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.000	33.518		1.000				0.0950	
13	13 2,3,4,6,7,8-HxCDF			NO	1.04	10.000	34.181		1.000				0.108	
14	14 1,2,3,7,8,9-HxCDF			NO	1.01	10.000	35.190		1.000				0.143	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.06	10.000	36.777		1.000				0.140	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.000	38.765		1.000				0.133	
17	17 OCDF			NO	0.929	10.000	41.389		1.000				0.273	
18	18 13C-2,3,7,8-TCDD	5.84e5	0.78	NO	1.14	10.000	26.327	26.33	1.029	1.029	194.64	97.3	0.182	
19	19 13C-1,2,3,7,8-PeCDD	4.54e5	0.62	NO	0.794	10.000	30.975	30.99	1.211	1.212	217.28	109	0.406	
20	20 13C-1,2,3,4,7,8-HxCDD	3.65e5	1.29	NO	0.698	10.000	34.277	34.29 ✓	1.013	1.014	189.84	94.9	0.602	
21	21 13C-1,2,3,6,7,8-HxCDD	4.10e5	1.28	NO	0.778	10.000	34.405	34.41 ✓	1.017	1.017	191.43	95.7	0.541	
22	22 13C-1,2,3,7,8,9-HxCDD	3.99e5	1.28	NO	0.751	10.000	34.676	34.69 ✓	1.025	1.026	192.80	96.4	0.560	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.26e5	1.07	NO	0.599	10.000	38.123	38.15	1.127	1.128	197.63	98.8	1.17	
24	24 13C-OCDD	4.68e5	0.90	NO	0.503	10.000	41.062	41.08	1.214	1.214	337.77	84.4	1.08	
25	25 13C-2,3,7,8-TCDF	8.09e5	0.79	NO	0.994	10.000	25.657	25.67	1.003	1.003	196.90	98.5	0.248	
26	26 13C-1,2,3,7,8-PeCDF	6.38e5	1.57	NO	0.743	10.000	29.727	29.74	1.162	1.163	207.65	104	0.488	
27	27 13C-2,3,4,7,8-PeCDF	5.93e5	1.61	NO	0.726	10.000	30.785	30.79	1.204	1.204	197.65	98.8	0.499	
28	28 13C-1,2,3,4,7,8-HxCDF	5.02e5	0.52	NO	0.979	10.000	33.377	33.38 ✓	0.987	0.987	186.05	93.0	0.548	
29	29 13C-1,2,3,6,7,8-HxCDF	5.00e5	0.52	NO	0.998	10.000	33.515	33.52 ✓	0.991	0.991	181.85	90.9	0.538	
30	30 13C-2,3,4,6,7,8-HxCDF	4.84e5	0.51	NO	0.945	10.000	34.175	34.18 ✓	1.010	1.010	185.89	92.9	0.568	
31	31 13C-1,2,3,7,8,9-HxCDF	4.24e5	0.51	NO	0.799	10.000	35.176	35.19 ✓	1.040	1.040	192.81	96.4	0.672	

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-13.qld

Last Altered: Monday, October 12, 2020 3:31:37 PM Pacific Daylight Time

Printed: Wednesday, October 14, 2020 8:02:05 AM Pacific Daylight Time

Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-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	3.46e5	0.44	NO	0.722	10.000	36.746	36.77	1.086	1.087	174.01	87.0	0.782	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.68e5	0.44	NO	0.565	10.000	38.735	38.76	1.145	1.146	172.41	86.2	0.998	
34	34 13C-OCDF	5.33e5	0.89	NO	0.607	10.000	41.353	41.38	1.222	1.223	318.80	79.7	0.916	
35	35 37Cl-2,3,7,8-TCDD	2.43e5			1.18	10.000	26.345	26.36	1.030	1.030	78.177	97.7	0.0552	
36	36 13C-1,2,3,4-TCDD	5.26e5	0.79	NO	1.00	10.000	25.590	25.58	1.000	1.000	200.00	100	0.208	
37	37 13C-1,2,3,4-TCDF	8.26e5	0.80	NO	1.00	10.000	24.130	24.13	1.000	1.000	200.00	100	0.247	
38	38 13C-1,2,3,4,6,9-HxCDF	5.51e5	0.51	NO	1.00	10.000	33.840	33.83	1.000	1.000	200.00	100	0.537	
39	39 Total Tetra-Dioxins				1.03	10.000	24.620		0.000				0.0291	
40	40 Total Penta-Dioxins				0.929	10.000	29.960		0.000				0.0395	
41	41 Total Hexa-Dioxins				0.967	10.000	33.635		0.000				0.0794	
42	42 Total Hepta-Dioxins				0.946	10.000	37.640		0.000				0.0506	
43	43 Total Tetra-Furans				0.869	10.000	23.610		0.000				0.0211	
44	44 1st Func. Penta-Furans				0.989	10.000	27.230		0.000				0.0123	
45	45 Total Penta-Furans				0.989	10.000	29.275		0.000				0.0388	
46	46 Total Hexa-Furans				1.04	10.000	33.555		0.000				0.0526	
47	47 Total Hepta-Furans				1.06	10.000	37.835		0.000				0.0864	



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-13.qld

Last Altered: Monday, October 12, 2020 3:31:37 PM Pacific Daylight Time

Printed: Wednesday, October 14, 2020 8:02:05 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-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\201009R5\201009R5-13.qld

Last Altered: Monday, October 12, 2020 3:31:37 PM Pacific Daylight Time  
Printed: Wednesday, October 14, 2020 8:02:05 AM Pacific Daylight Time

Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-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											

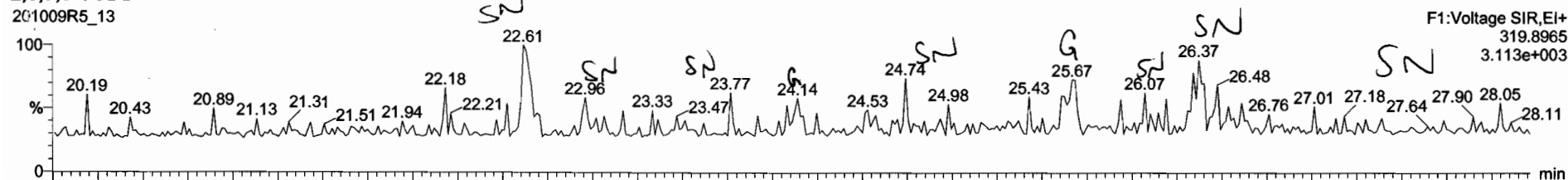
Dataset: Untitled

Last Altered: Monday, October 12, 2020 15:17:13 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:20:57 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31  
Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

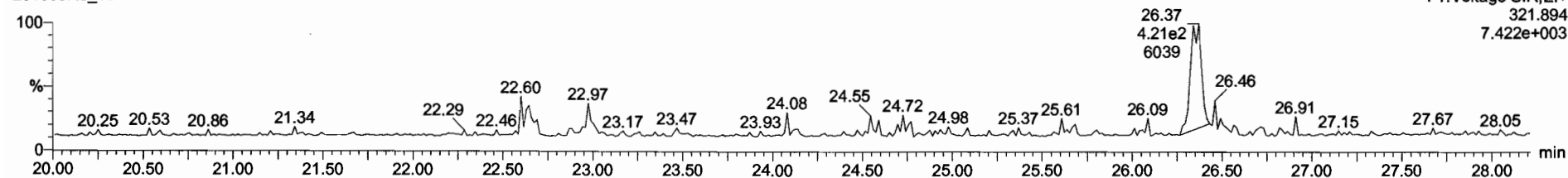
Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD



F1:Voltage SIR,EI+  
319.8965  
3.113e+003

201009R5\_13



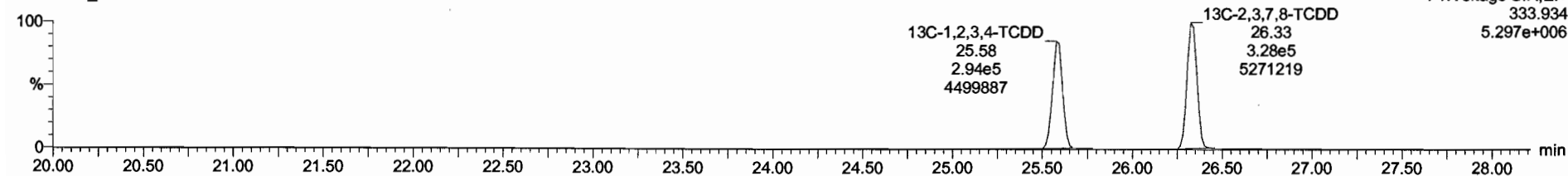
F1:Voltage SIR,EI+  
321.894  
7.422e+003

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



F1:Voltage SIR,EI+  
331.9368  
4.197e+006

201009R5\_13



F1:Voltage SIR,EI+  
333.934  
5.297e+006

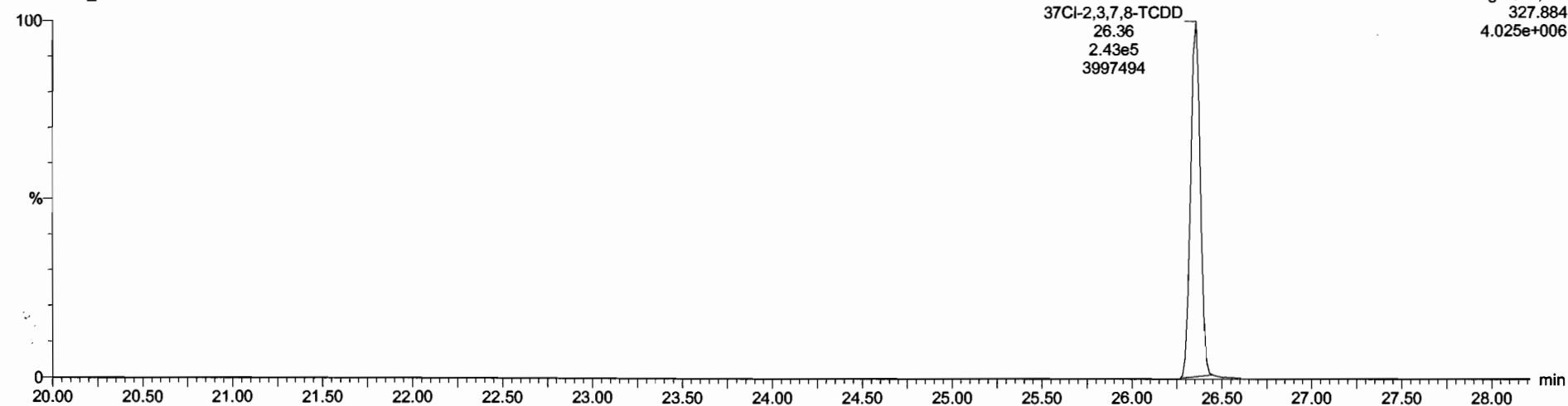
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Last Altered: Monday, October 12, 2020 15:17:13 Pacific Daylight Time  
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Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-BLK1 Method Blank 10, Description: Method Blank

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

201009R5\_13

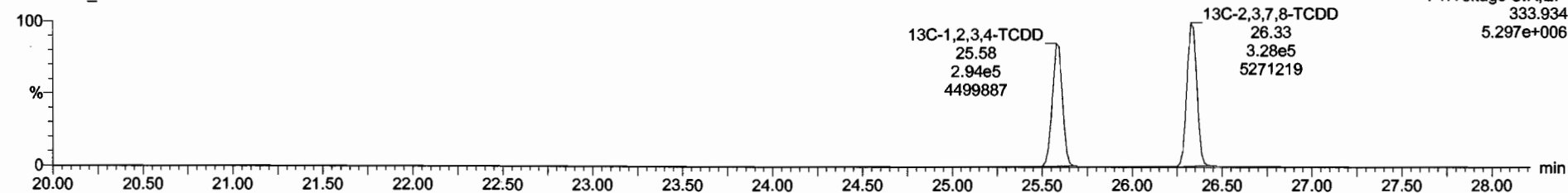


**13C-1,2,3,4-TCDD**

201009R5\_13



201009R5\_13



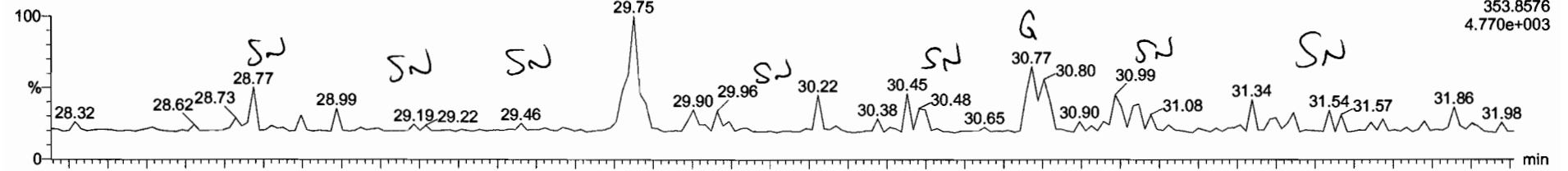
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Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-BLK1 Method Blank 10, Description: Method Blank

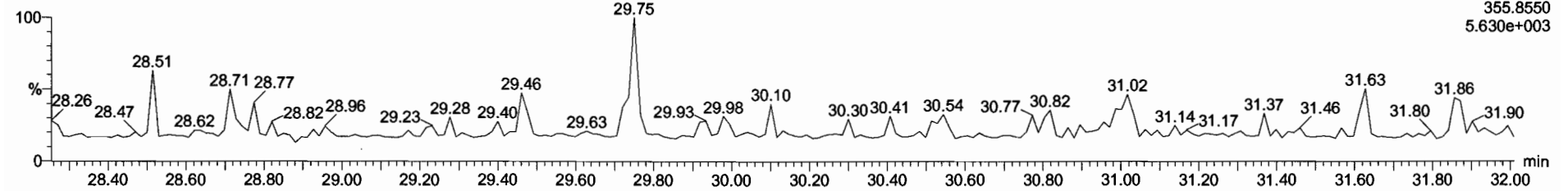
**1,2,3,7,8-PeCDD**

201009R5\_13



F2:Voltage SIR,EI+  
353.8576  
4.770e+003

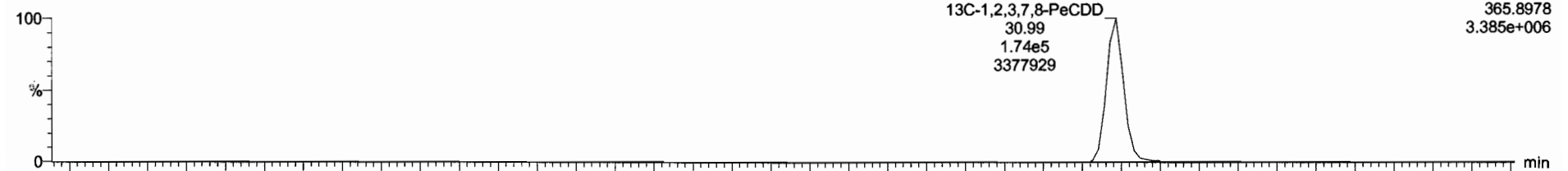
201009R5\_13



F2:Voltage SIR,EI+  
355.8550  
5.630e+003

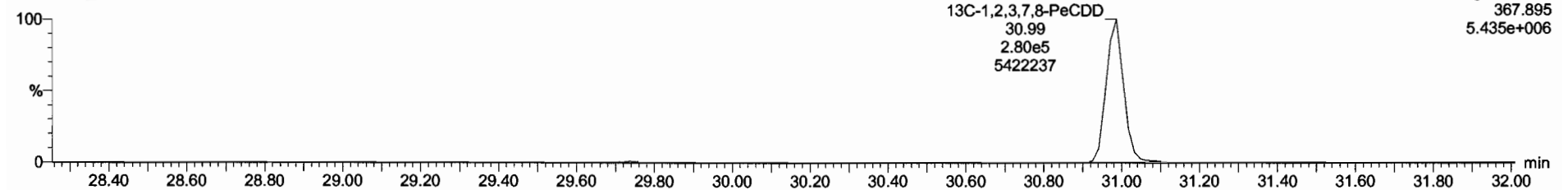
**13C-1,2,3,7,8-PeCDD**

201009R5\_13



F2:Voltage SIR,EI+  
365.8978  
3.385e+006

201009R5\_13



F2:Voltage SIR,EI+  
367.895  
5.435e+006

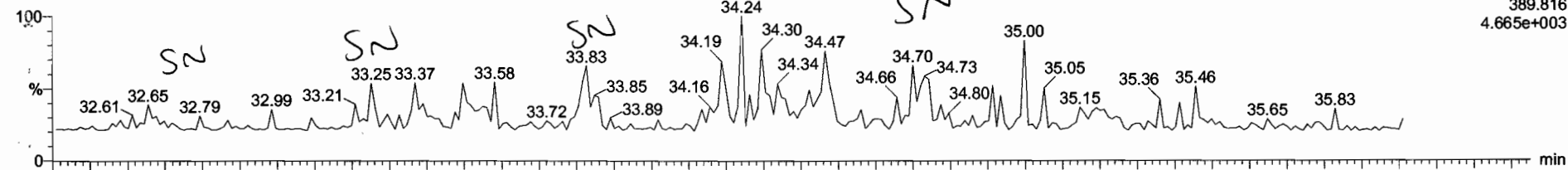
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Last Altered: Monday, October 12, 2020 15:17:13 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:20:57 Pacific Daylight Time

Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-BLK1 Method Blank 10, Description: Method Blank

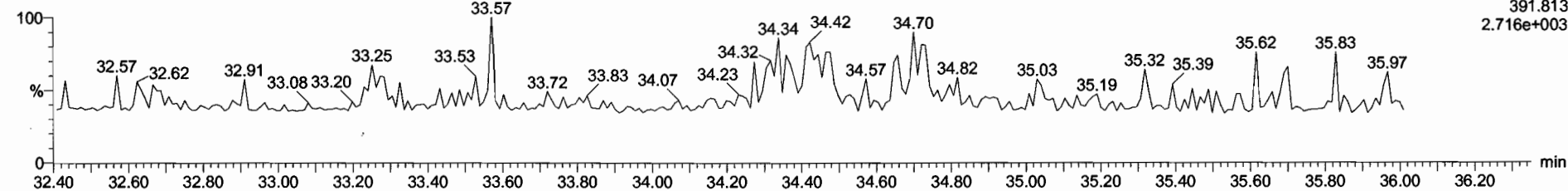
1,2,3,4,7,8-HxCDD

201009R5\_13



F3:Voltage SIR,EI+  
389.816  
4.665e+003

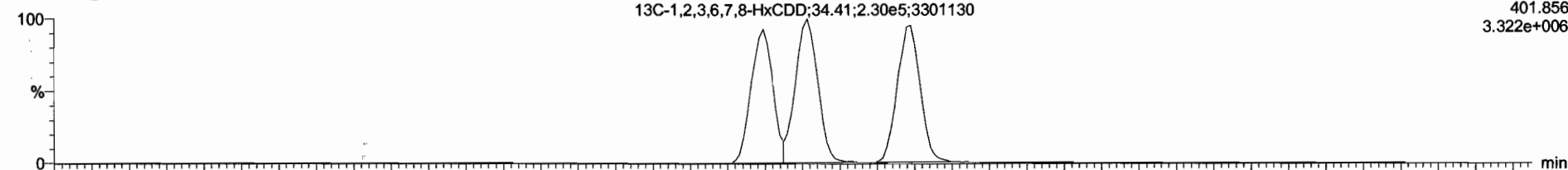
201009R5\_13



F3:Voltage SIR,EI+  
391.813  
2.716e+003

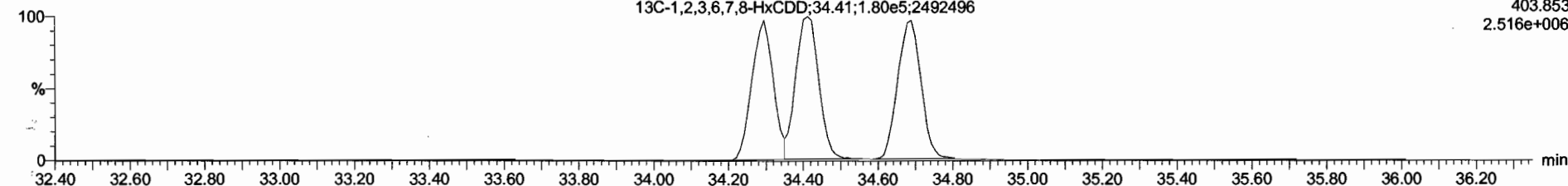
13C-1,2,3,4,7,8-HxCDD

201009R5\_13



F3:Voltage SIR,EI+  
401.856  
3.322e+006

201009R5\_13



F3:Voltage SIR,EI+  
403.853  
2.516e+006

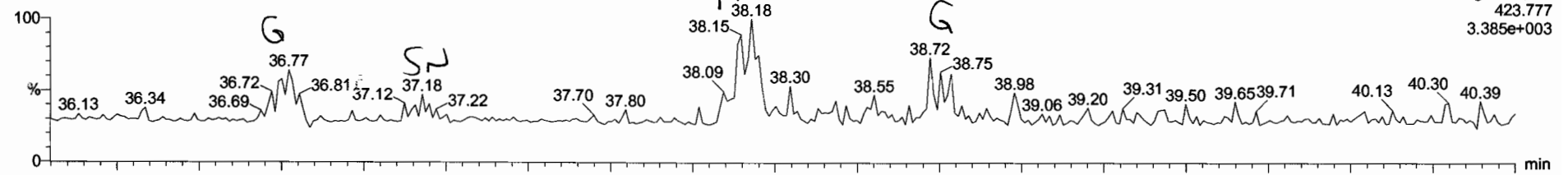
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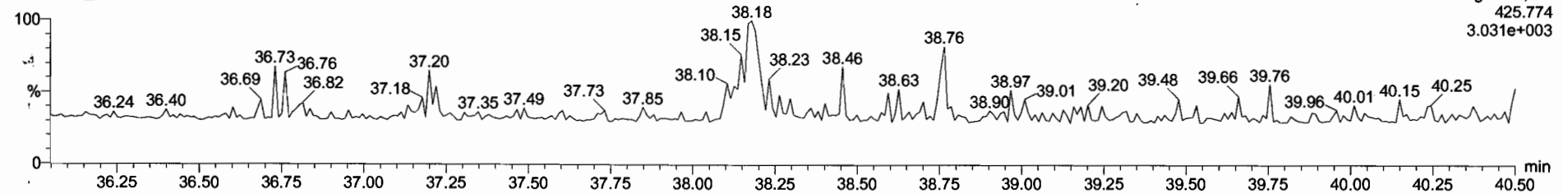
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1,2,3,4,6,7,8-HpCDD

201009R5\_13

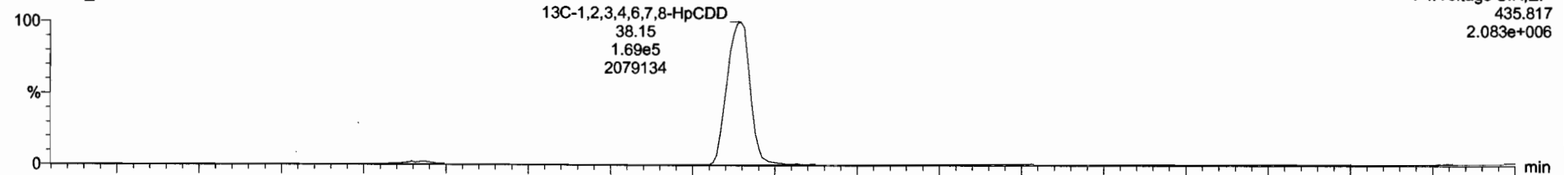


201009R5\_13

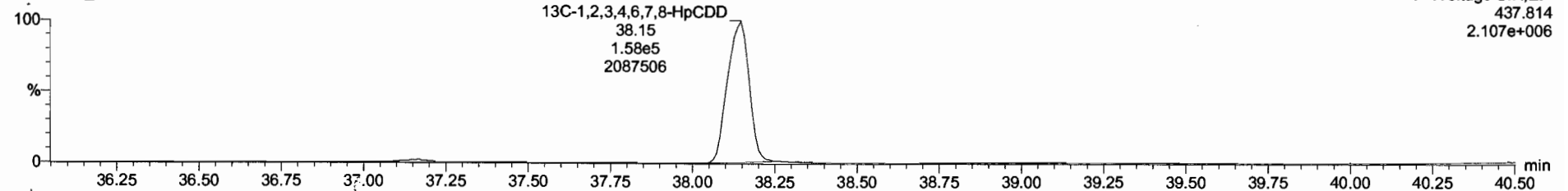


13C-1,2,3,4,6,7,8-HpCDD

201009R5\_13



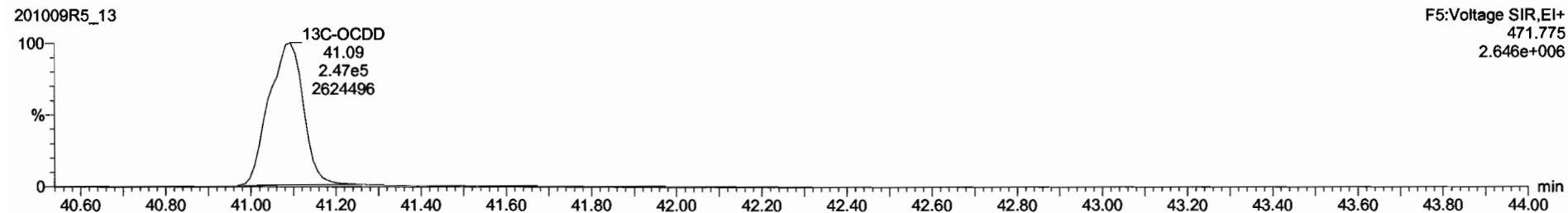
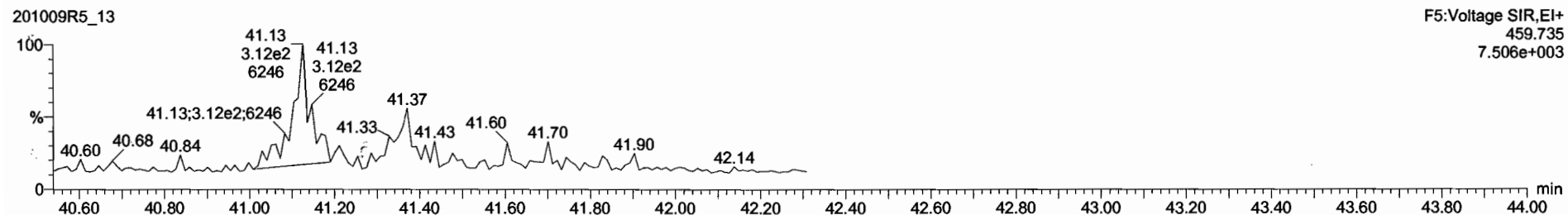
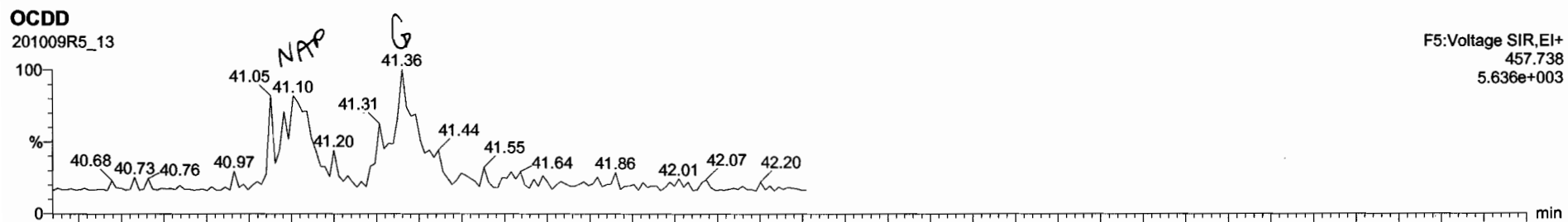
201009R5\_13



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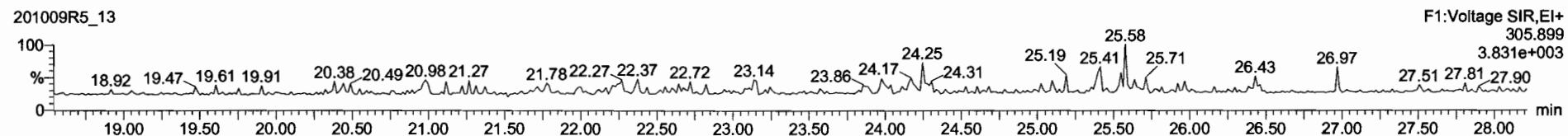
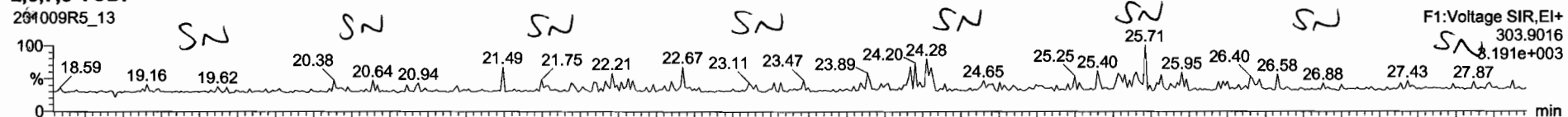


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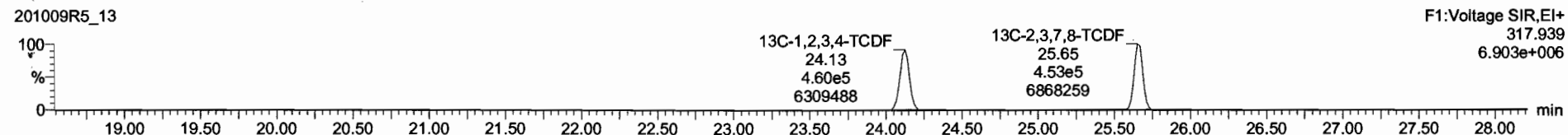
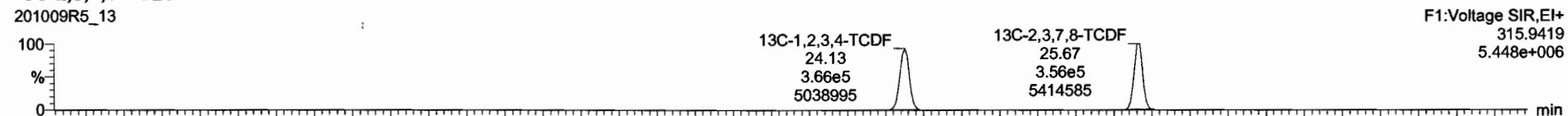
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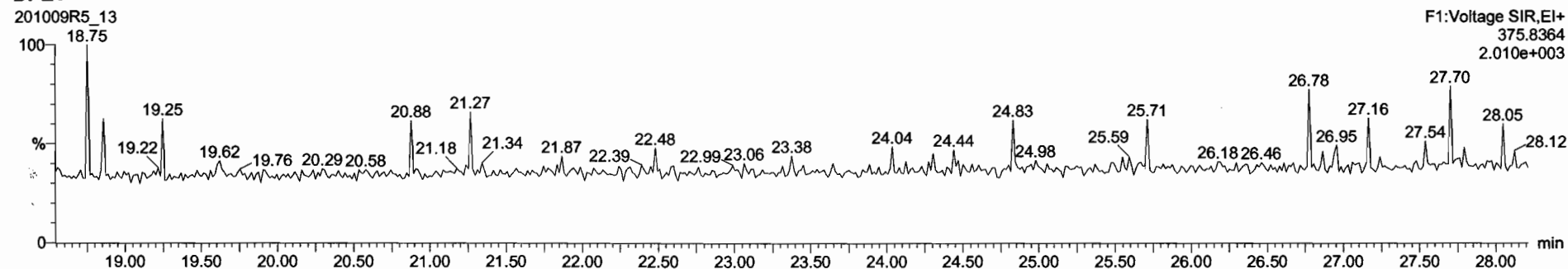
**2,3,7,8-TCDF**



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



**DPE1**



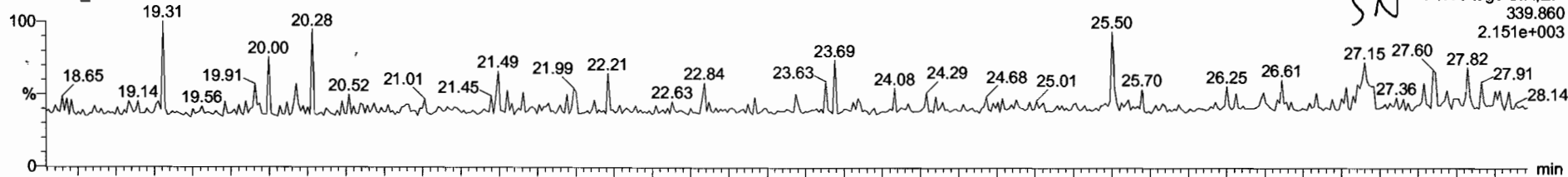
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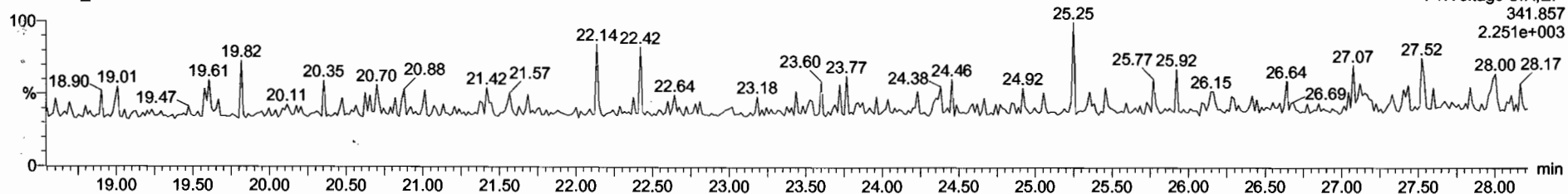
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1st Func. Penta-Furans

201009R5\_13

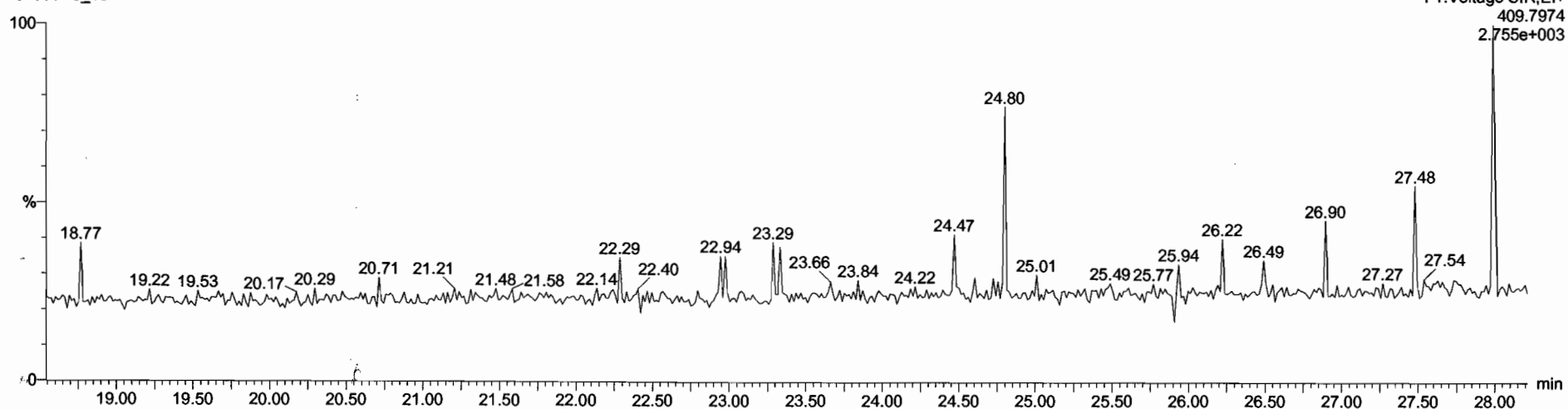


201009R5\_13



DPE6

201009R5\_13

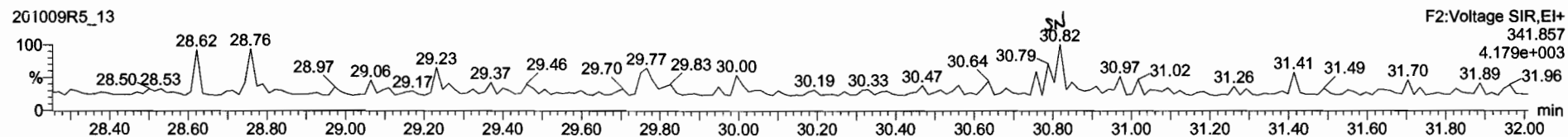
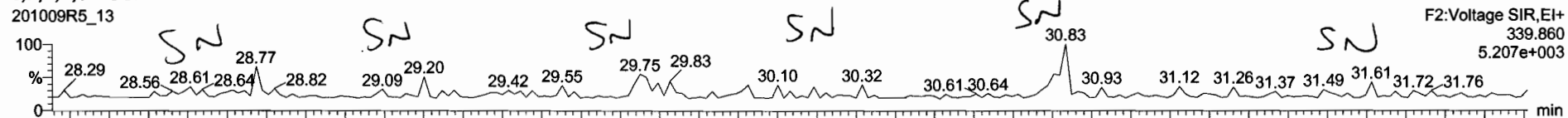


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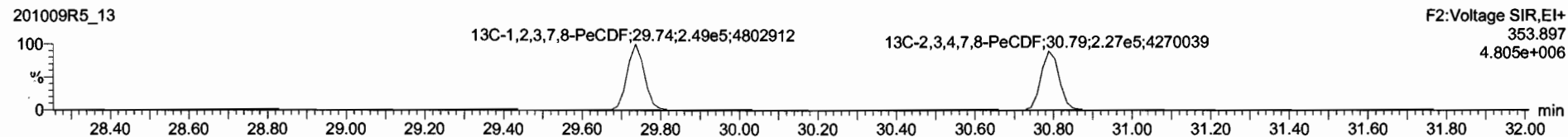
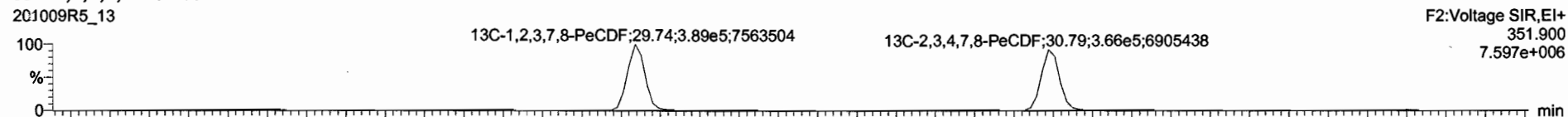
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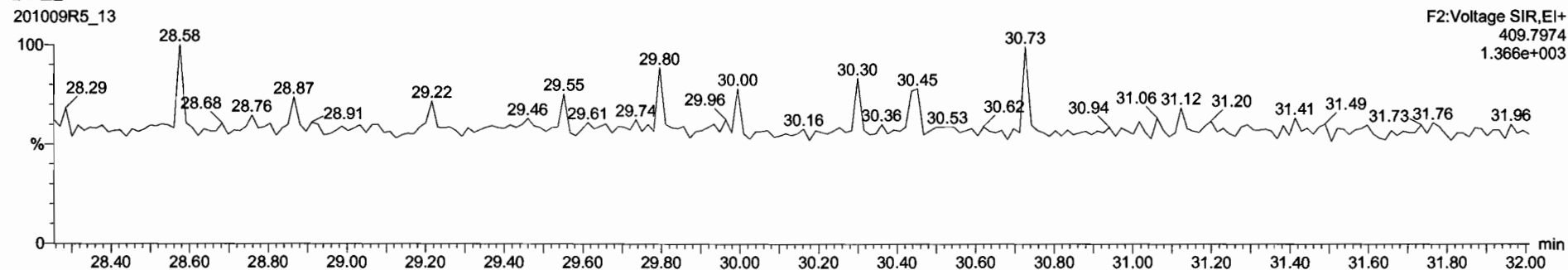
**1,2,3,7,8-PeCDF**



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



**DPE2**



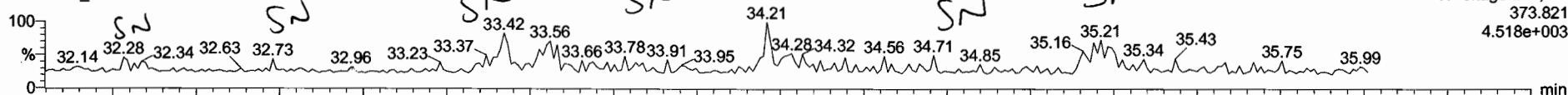
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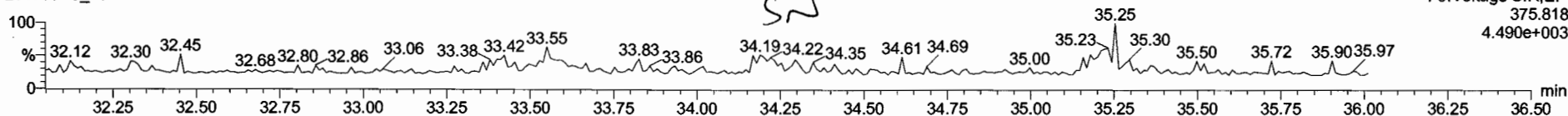
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1,2,3,4,7,8-HxCDF

201009R5\_13

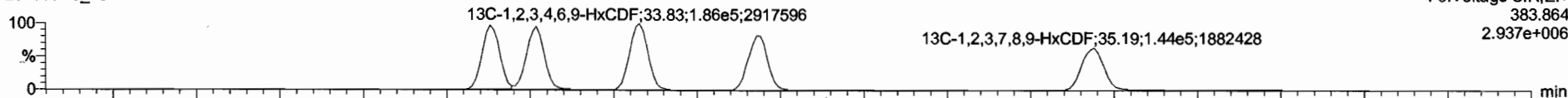


201009R5\_13

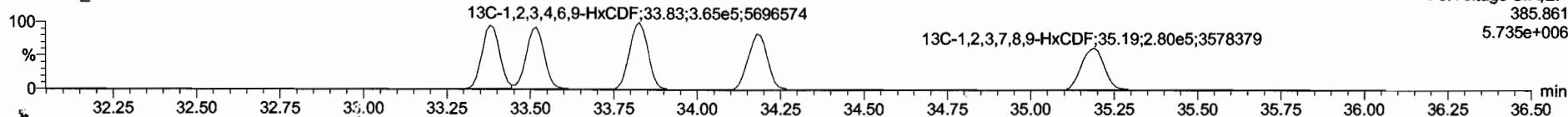


13C-1,2,3,4,7,8-HxCDF

201009R5\_13

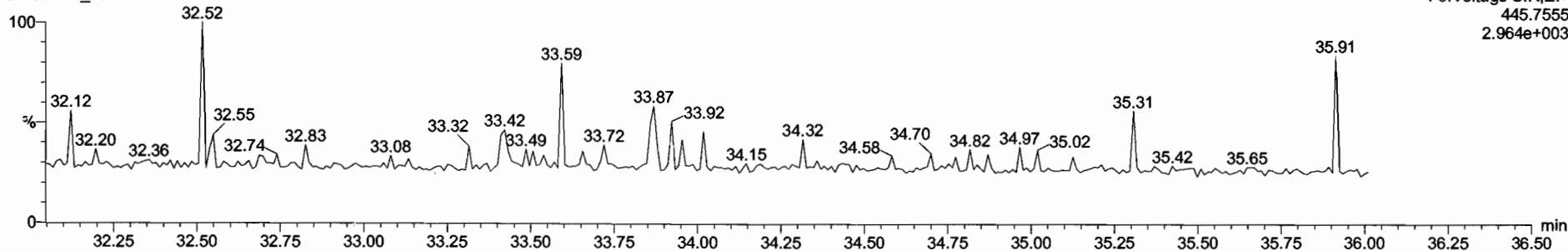


201009R5\_13



DPE3

201009R5\_13



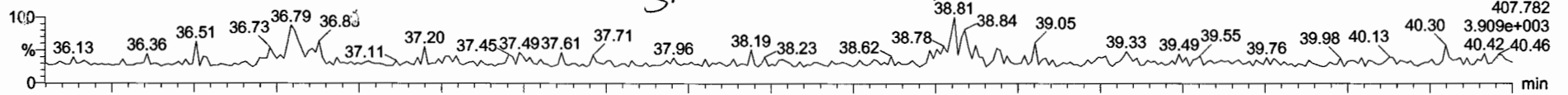
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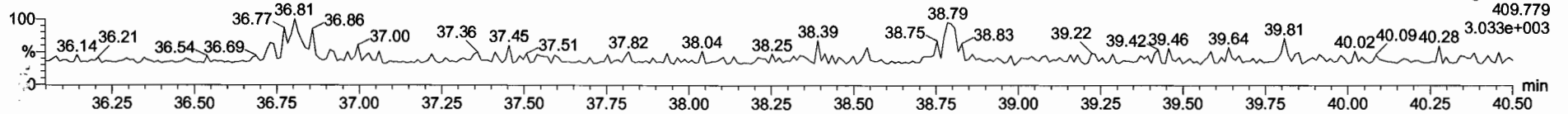
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**1,2,3,4,6,7,8-HpCDF**

201009R5\_13

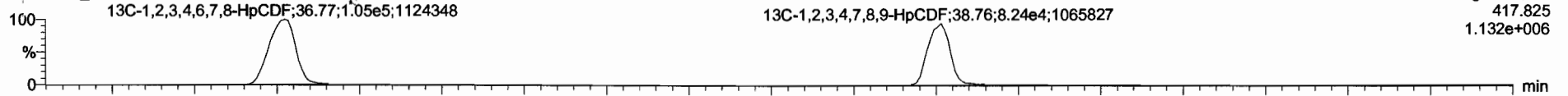


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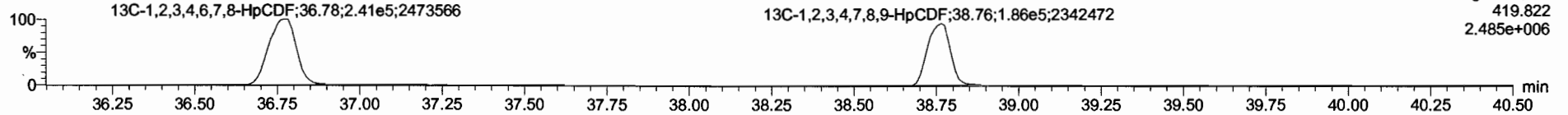


**13C-1,2,3,4,6,7,8-HpCDF**

201009R5\_13

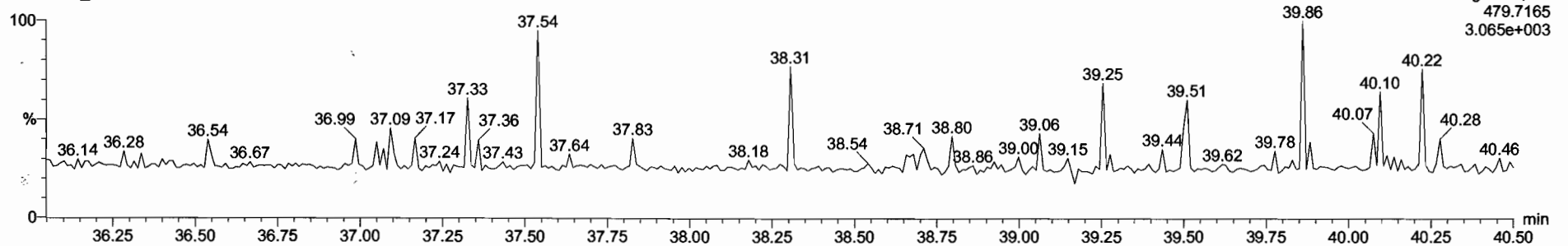


201009R5\_13



**DPE4**

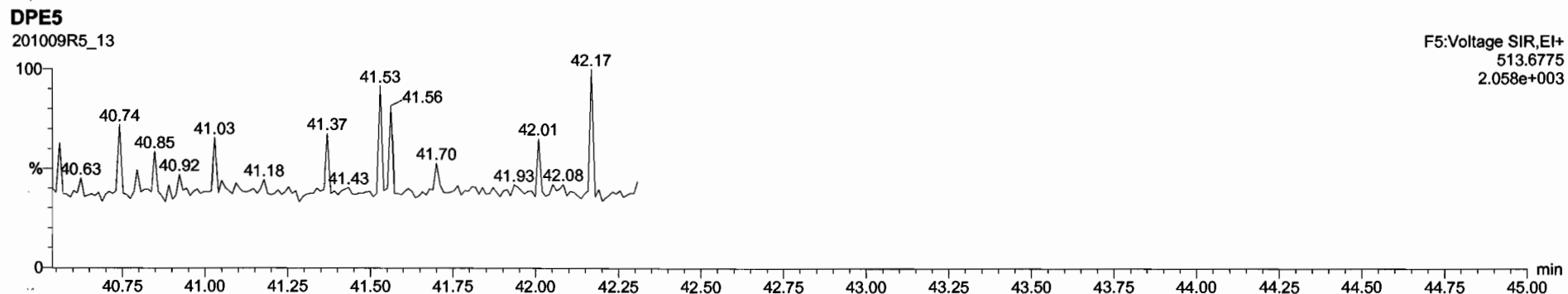
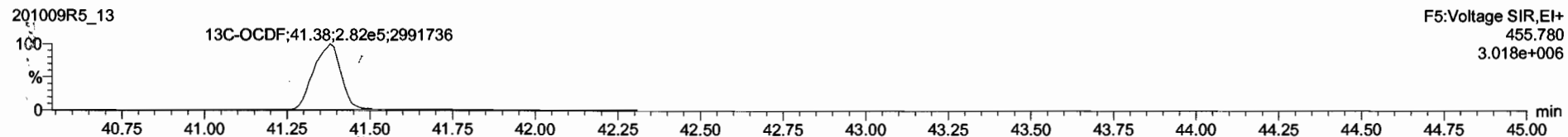
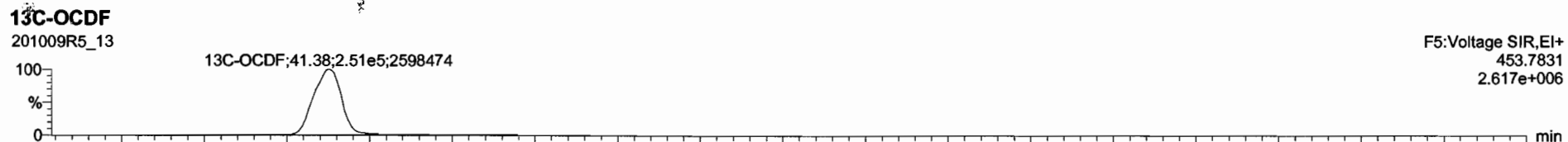
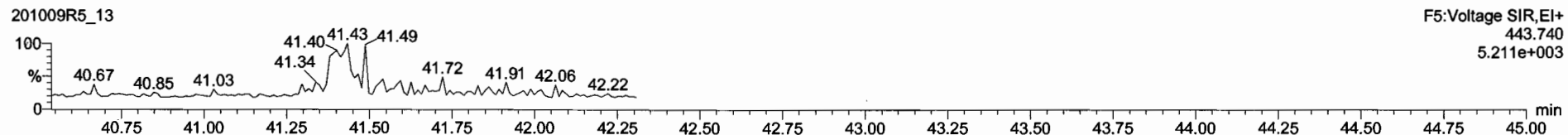
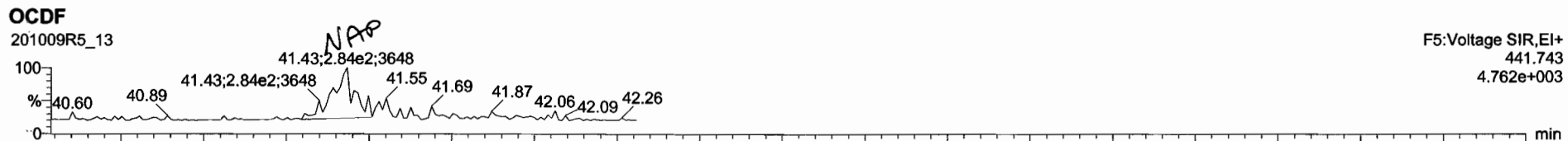
201009R5\_13



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Printed: Monday, October 12, 2020 15:20:57 Pacific Daylight Time

Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-BLK1 Method Blank 10, Description: Method Blank

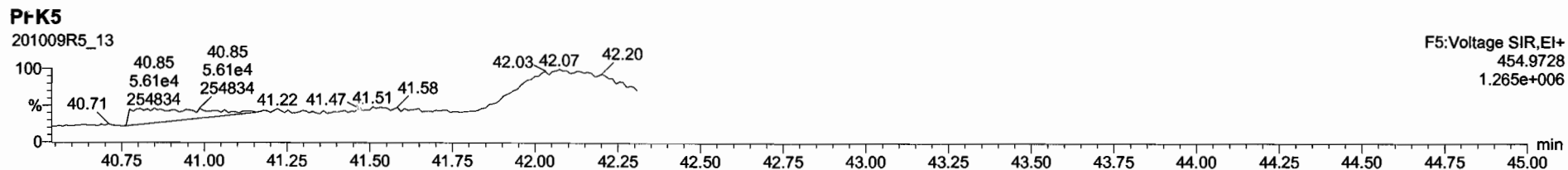
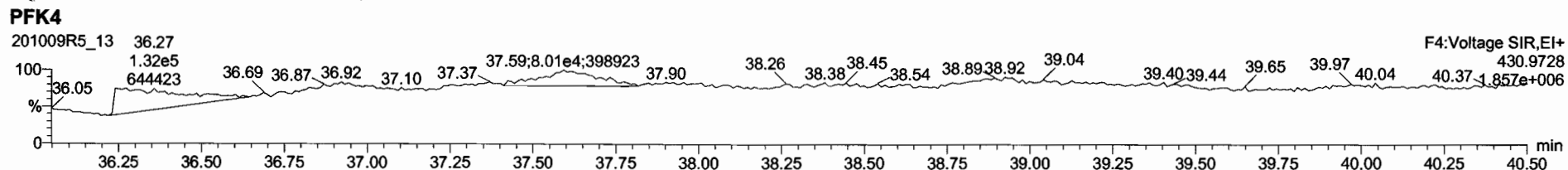
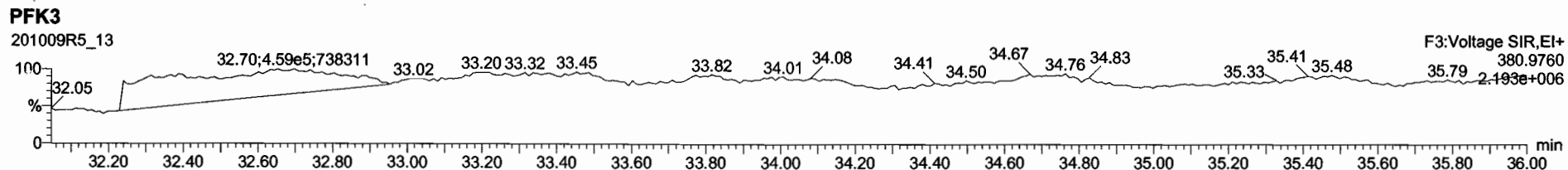
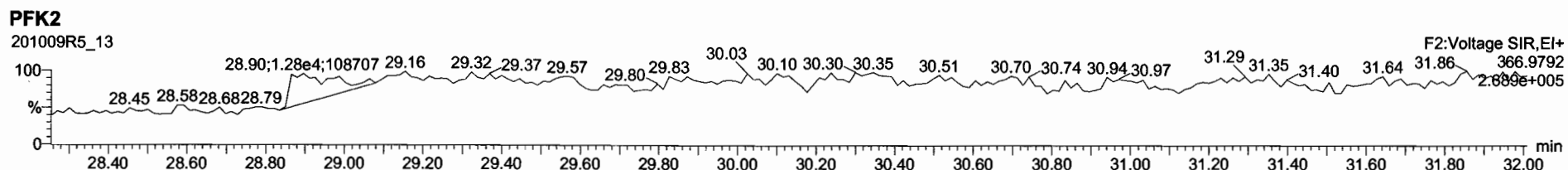
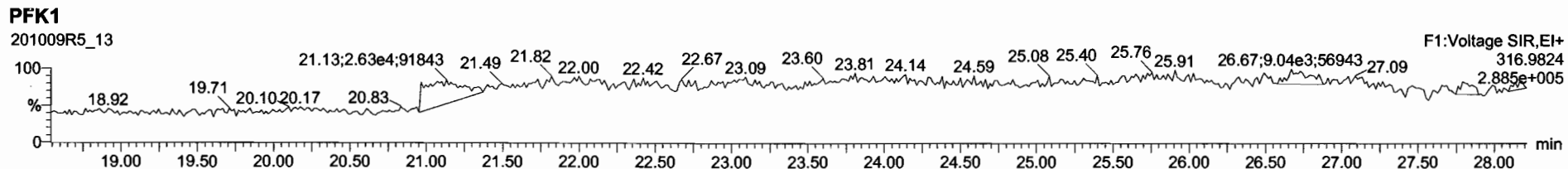


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Printed: Monday, October 12, 2020 15:20:57 Pacific Daylight Time

Name: 201009R5\_13, Date: 10-Oct-2020, Time: 01:07:20, ID: B0J0073-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-10.qld

Last Altered: Monday, October 12, 2020 3:13:37 PM Pacific Daylight Time  
Printed: Wednesday, October 14, 2020 7:45:40 AM Pacific Daylight Time

*GRB 10/14/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31  
Calibration: U:\VG12.PRO\CurveDB\1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

*MW 10/22/20*

Name: 201009R5\_10, Date: 09-Oct-2020, Time: 22:56:11, ID: B0J0073-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	4.96e4	0.76	NO	1.03	10.000	26.355	26.36	1.001	1.001	18.901		0.0710	18.9
2	1,2,3,7,8-PeCDD	1.81e5	0.60	NO	0.929	10.000	30.996	31.00	1.000	1.000	100.57		0.231	101
3	1,2,3,4,7,8-HxCDD	1.70e5	1.28	NO	1.08	10.000	34.323	34.32 ✓	1.001	1.001	99.693		0.316	99.7
4	1,2,3,6,7,8-HxCDD	1.68e5	1.25	NO	0.967	10.000	34.433	34.43 ✓	1.000	1.000	97.526		0.327	97.5
5	1,2,3,7,8,9-HxCDD	1.68e5	1.24	NO	0.996	10.000	34.700	34.70 ✓	1.000	1.000	98.545		0.345	98.5
6	1,2,3,4,6,7,8-HpCDD	1.26e5	1.00	NO	0.946	10.000	38.147	38.17	1.000	1.001	95.708		0.667	95.7
7	OCDD	1.97e5	0.87	NO	0.925	10.000	41.094	41.10	1.000	1.000	192.05		0.740	192
8	2,3,7,8-TCDF	5.82e4	0.75	NO	0.869	10.000	25.660	25.68	1.000	1.001	19.212		0.0885	19.2
9	1,2,3,7,8-PeCDF	2.64e5	1.59	NO	0.989	10.000	29.745	29.77	1.000	1.001	102.42		0.245	102
10	2,3,4,7,8-PeCDF	2.63e5	1.54	NO	1.10	10.000	30.788	30.80	1.000	1.000	98.518		0.224	98.5
11	1,2,3,4,7,8-HxCDF	2.15e5	1.24	NO	0.996	10.000	33.390	33.40 ✓	1.000	1.000	99.089		0.349	99.1
12	1,2,3,6,7,8-HxCDF	2.27e5	1.24	NO	1.04	10.000	33.518	33.54 ✓	1.000	1.001	101.92		0.343	102
13	2,3,4,6,7,8-HxCDF	2.13e5	1.22	NO	1.04	10.000	34.192	34.20 ✓	1.000	1.000	99.708		0.392	99.7
14	1,2,3,7,8,9-HxCDF	1.82e5	1.25	NO	1.01	10.000	35.190	35.20 ✓	1.000	1.000	98.619		0.507	98.6
15	1,2,3,4,6,7,8-HpCDF	1.53e5	1.02	NO	1.06	10.000	36.777	36.79	1.000	1.001	95.852		0.655	95.9
16	1,2,3,4,7,8,9-HpCDF	1.33e5	1.02	NO	1.18	10.000	38.776	38.79	1.000	1.000	99.921		0.621	99.9
17	OCDF	2.37e5	0.89	NO	0.929	10.000	41.390	41.39	1.000	1.000	195.34		0.809	195
18	13C-2,3,7,8-TCDD	5.11e5	0.78	NO	1.14	10.000	26.327	26.33	1.029	1.029	191.63	95.8	0.234	
19	13C-1,2,3,7,8-PeCDD	3.88e5	0.63	NO	0.794	10.000	30.975	30.99	1.211	1.212	208.56	104	0.453	
20	13C-1,2,3,4,7,8-HxCDD	3.17e5	1.32	NO	0.698	10.000	34.277	34.29 ✓	1.013	1.014	184.26	92.1	0.644	
21	13C-1,2,3,6,7,8-HxCDD	3.56e5	1.25	NO	0.778	10.000	34.405	34.42 ✓	1.017	1.018	185.96	93.0	0.578	
22	13C-1,2,3,7,8,9-HxCDD	3.41e5	1.25	NO	0.751	10.000	34.676	34.69 ✓	1.025	1.026	184.72	92.4	0.599	
23	13C-1,2,3,4,6,7,8-HpCDD	2.79e5	1.04	NO	0.599	10.000	38.123	38.15	1.127	1.128	189.18	94.6	1.27	
24	13C-OCDD	4.43e5	0.86	NO	0.503	10.000	41.062	41.09	1.214	1.215	357.97	89.5	1.05	
25	13C-2,3,7,8-TCDF	6.97e5	0.78	NO	0.994	10.000	25.657	25.65	1.003	1.003	193.44	96.7	0.353	
26	13C-1,2,3,7,8-PeCDF	5.22e5	1.61	NO	0.743	10.000	29.727	29.74	1.162	1.163	193.67	96.8	0.719	
27	13C-2,3,4,7,8-PeCDF	4.86e5	1.60	NO	0.726	10.000	30.785	30.79	1.204	1.204	184.63	92.3	0.736	
28	13C-1,2,3,4,7,8-HxCDF	4.36e5	0.50	NO	0.979	10.000	33.377	33.39 ✓	0.987	0.987	181.20	90.6	0.820	
29	13C-1,2,3,6,7,8-HxCDF	4.30e5	0.51	NO	0.998	10.000	33.515	33.52 ✓	0.991	0.991	174.93	87.5	0.804	
30	13C-2,3,4,6,7,8-HxCDF	4.12e5	0.51	NO	0.945	10.000	34.175	34.19 ✓	1.010	1.011	176.87	88.4	0.849	
31	13C-1,2,3,7,8,9-HxCDF	3.66e5	0.50	NO	0.799	10.000	35.176	35.19 ✓	1.040	1.040	186.17	93.1	1.00	



Dataset: U:\VG12.PRO\Results\201009R5\201009R5- 10.qld

Last Altered: Monday, October 12, 2020 3:13:37 PM Pacific Daylight Time

Printed: Wednesday, October 14, 2020 7:45:40 AM Pacific Daylight Time

Name: 201009R5\_10, Date: 09-Oct-2020, Time: 22:56:11, ID: B0J0073-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	3.02e5	0.43	NO	0.722	10.000	36.746	36.77	1.086	1.087	170.10	85.0	0.932	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.26e5	0.42	NO	0.565	10.000	38.735	38.78	1.145	1.146	162.22	81.1	1.19	
34	34 13C-OCDF	5.22e5	0.88	NO	0.607	10.000	41.353	41.38	1.222	1.223	349.40	87.4	0.948	
35	35 37Cl-2,3,7,8-TCDD	2.07e5			1.18	10.000	26.345	26.36	1.030	1.030	74.659	93.3	0.0495	
36	36 13C-1,2,3,4-TCDD	4.68e5	0.79	NO	1.00	10.000	25.590	25.58	1.000	1.000	200.00	100	0.267	
37	37 13C-1,2,3,4-TCDF	7.25e5	0.79	NO	1.00	10.000	24.130	24.11	1.000	1.000	200.00	100	0.351	
38	38 13C-1,2,3,4,6,9-HxCDF	4.92e5	0.51	NO	1.00	10.000	33.840	33.83	1.000	1.000	200.00	100	0.803	

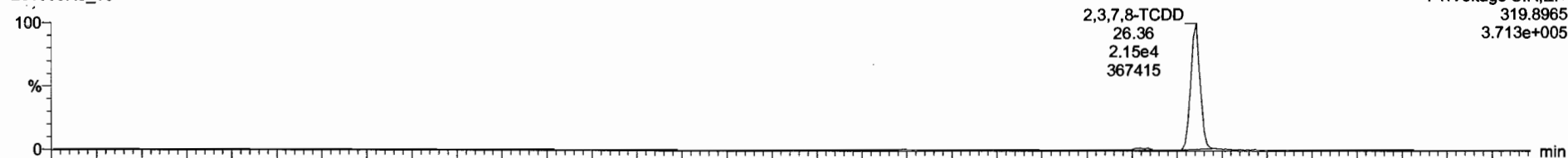
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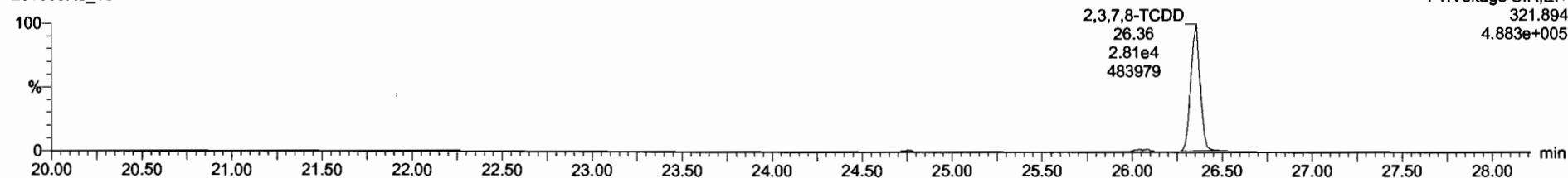
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

Name: 201009R5\_10, Date: 09-Oct-2020, Time: 22:56:11, ID: B0J0073-BS1 OPR 10, Description: OPR

**2,3,7,8-TCDD**  
201009R5\_10

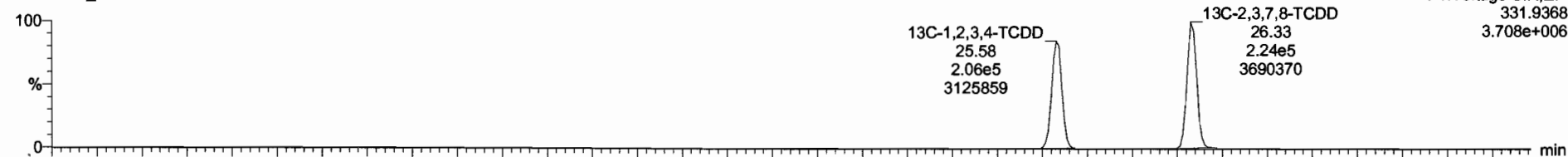


201009R5\_10

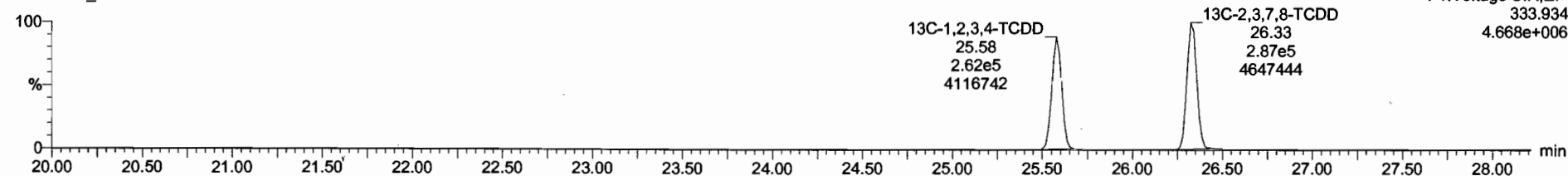


**13C-2,3,7,8-TCDD**

201009R5\_10



201009R5\_10



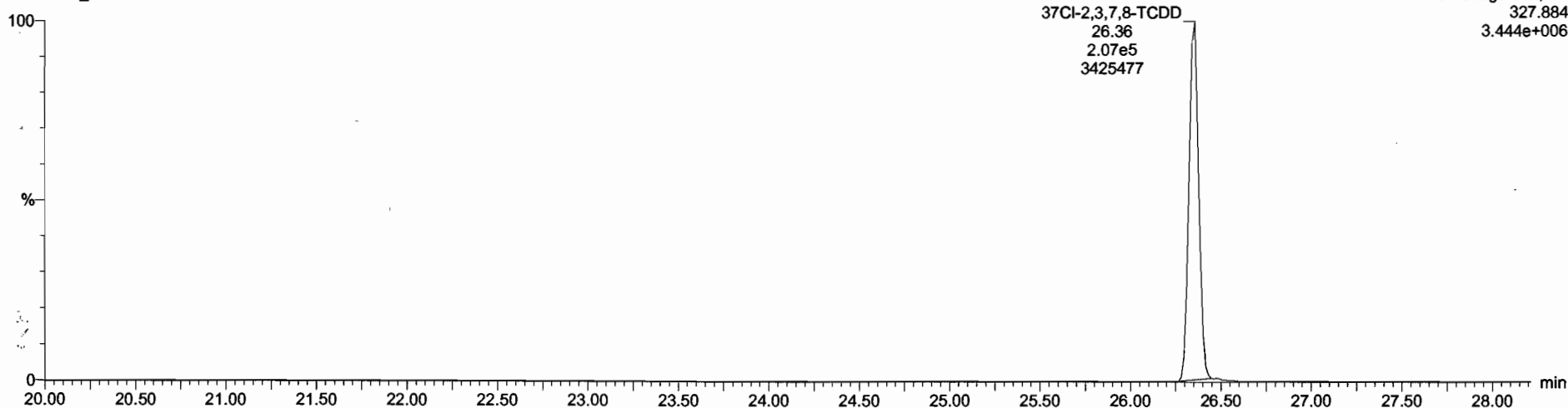
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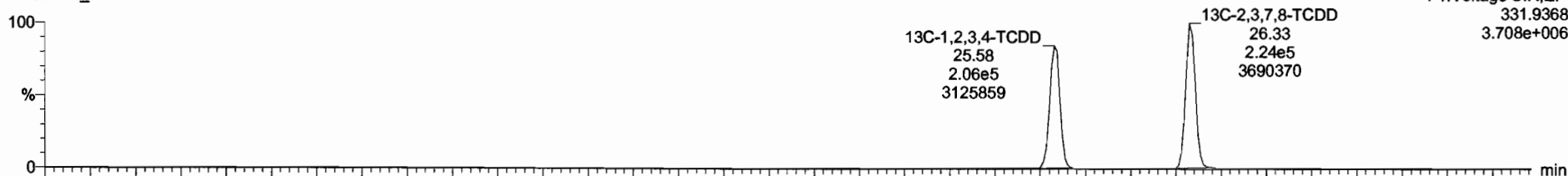
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201009R5\_10

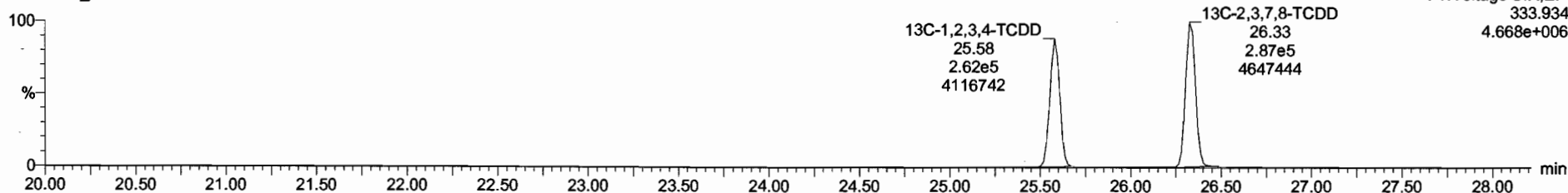


**13C-1,2,3,4-TCDD**

201009R5\_10



201009R5\_10



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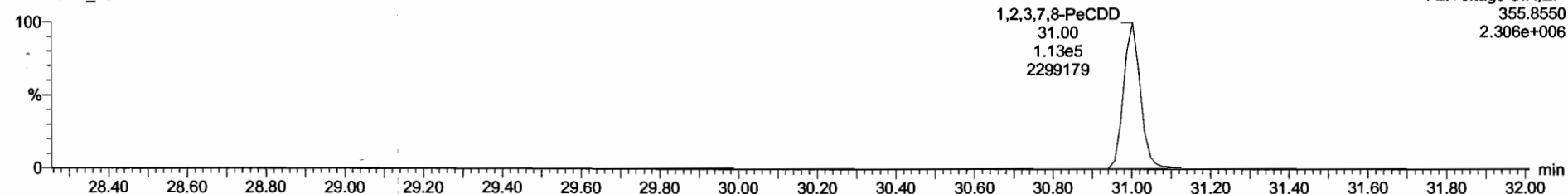
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**1,2,3,7,8-PeCDD**

201009R5\_10



201009R5\_10

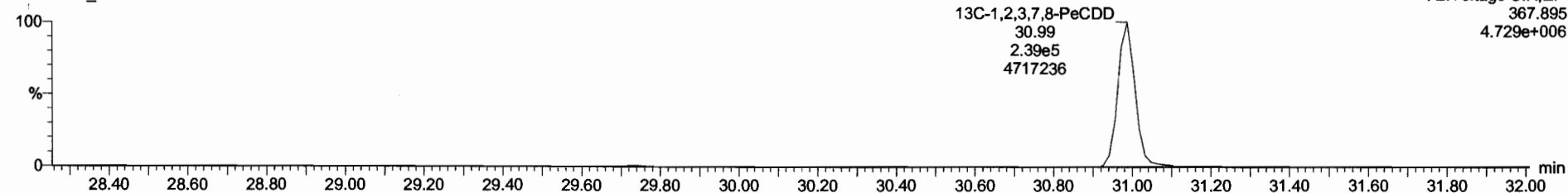


**13C-1,2,3,7,8-PeCDD**

201009R5\_10



201009R5\_10



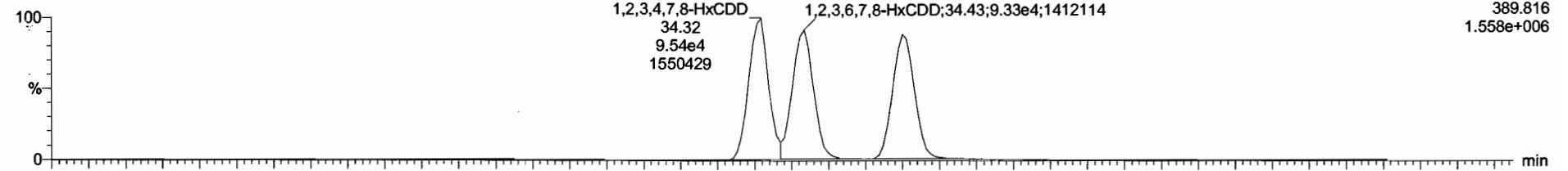
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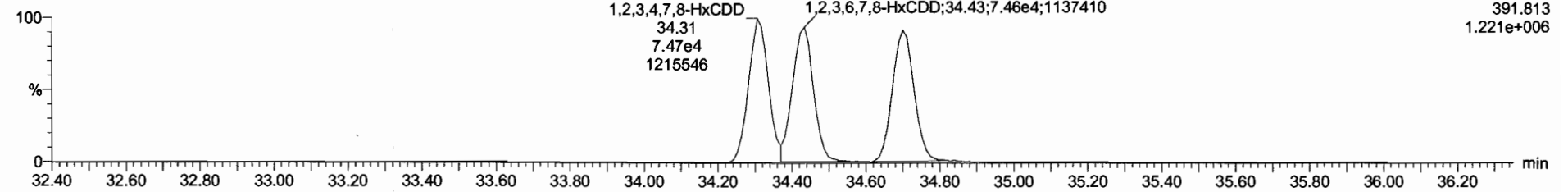
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**1,2,3,4,7,8-HxCDD**

201009R5\_10

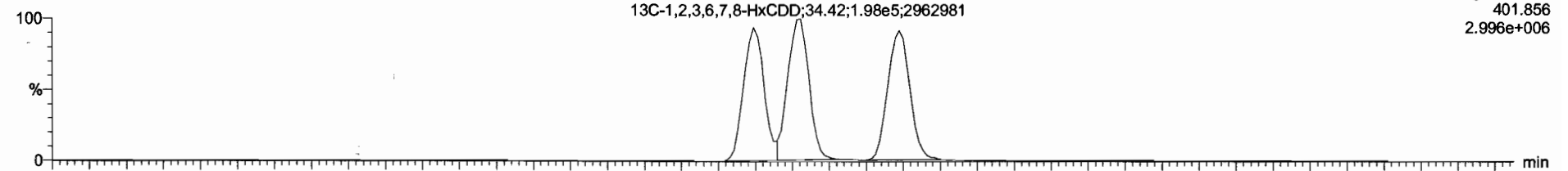


201009R5\_10

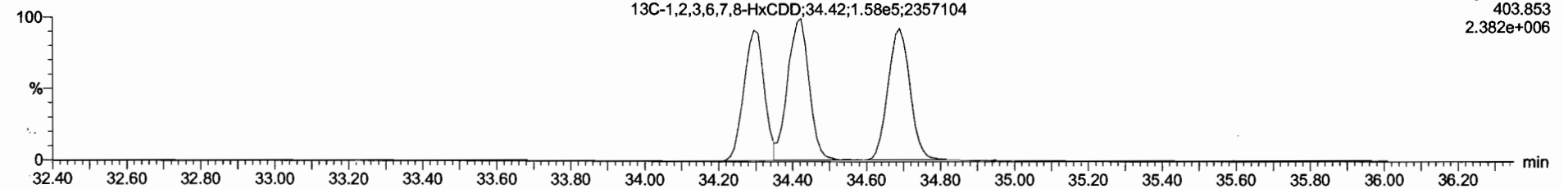


**13C-1,2,3,4,7,8-HxCDD**

201009R5\_10



201009R5\_10



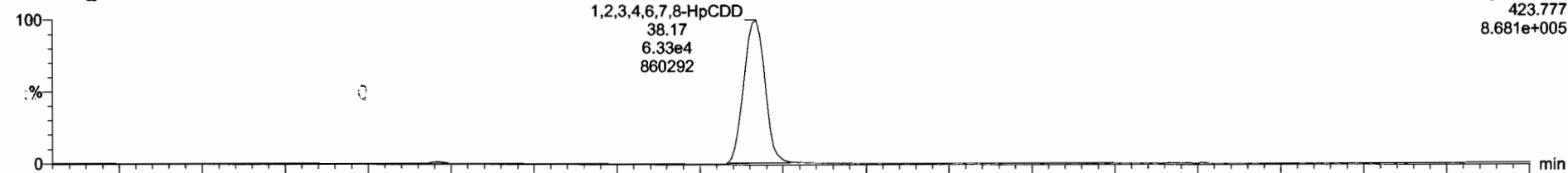
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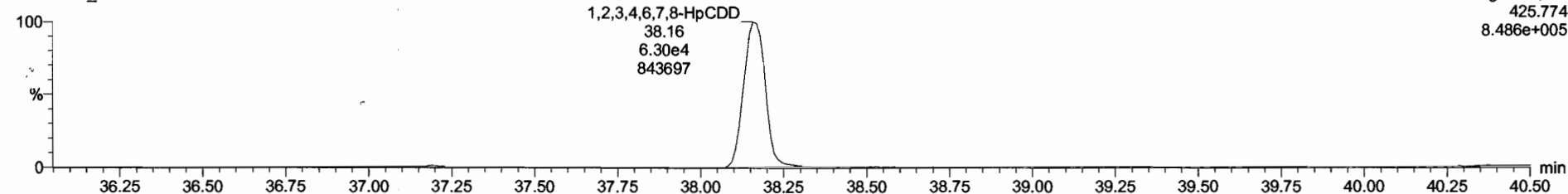
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**1,2,3,4,6,7,8-HpCDD**

201009R5\_10

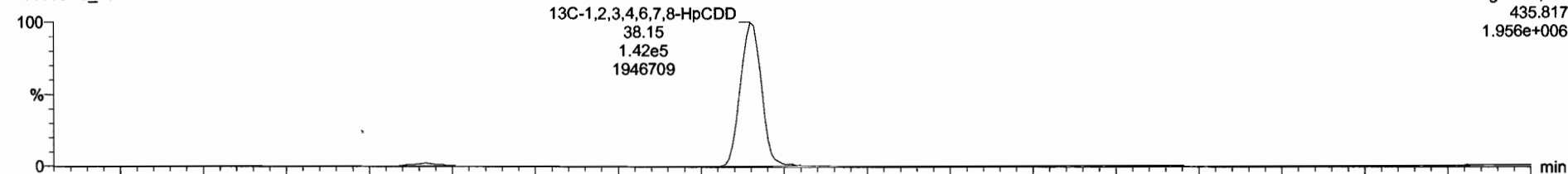


201009R5\_10

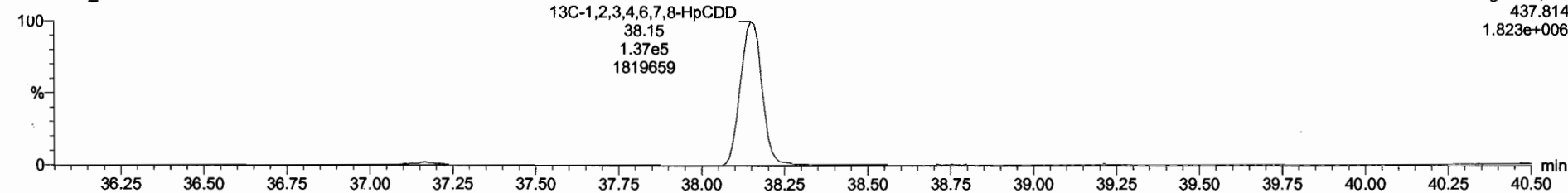


**13C-1,2,3,4,6,7,8-HpCDD**

201009R5\_10



201009R5\_10



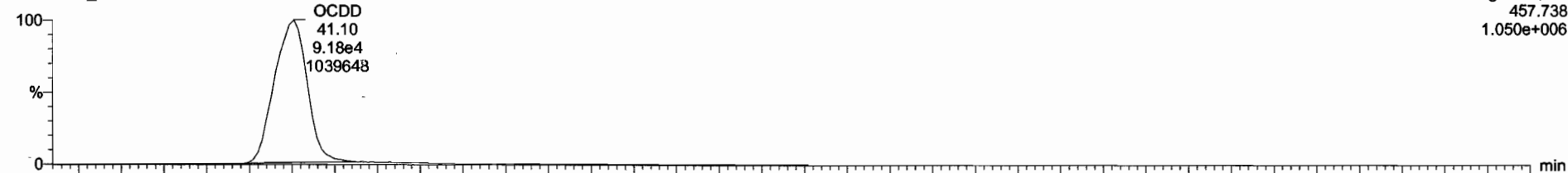
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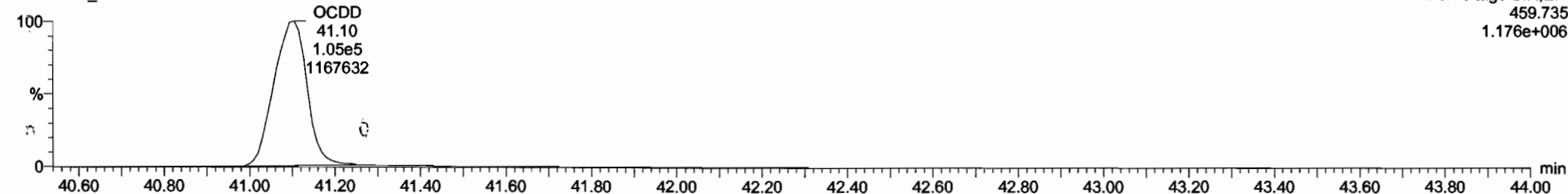
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**OCDD**

201009R5\_10



201009R5\_10

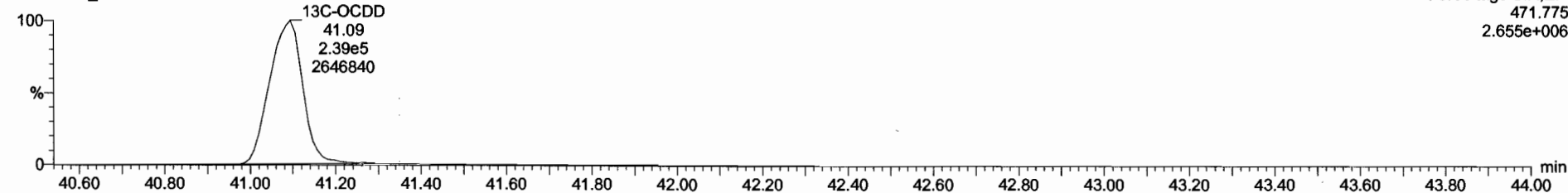


**13C-OCDD**

201009R5\_10



201009R5\_10



Dataset: Untitled

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Printed: Monday, October 12, 2020 15:13:18 Pacific Daylight Time

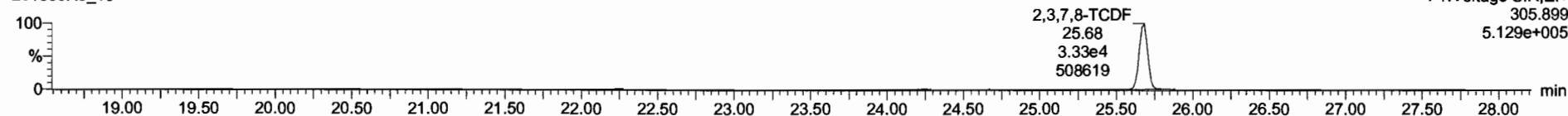
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**2,3,7,8-TCDF**

201009R5\_10

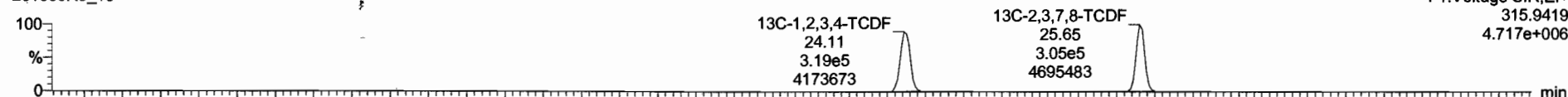


201009R5\_10

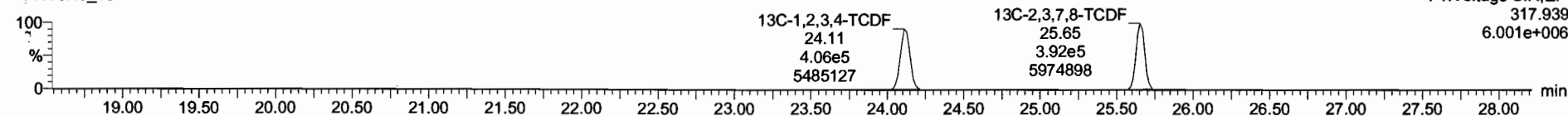


**13C-2,3,7,8-TCDF**

201009R5\_10

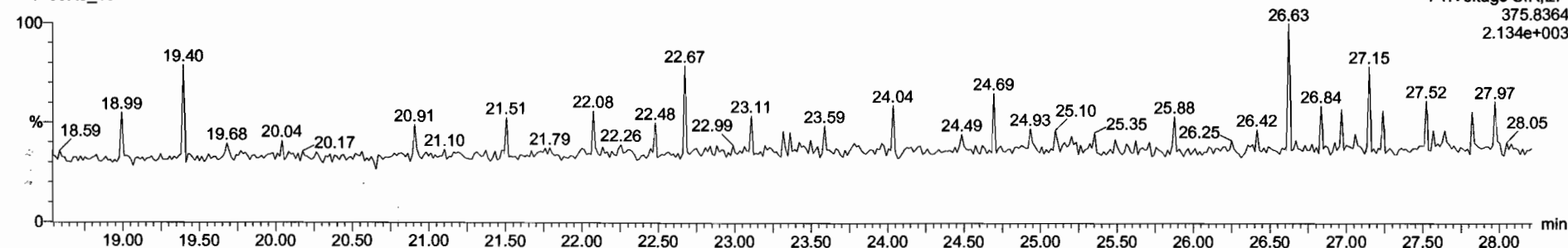


201009R5\_10



**DPE1**

201009R5\_10





Dataset: Untitled

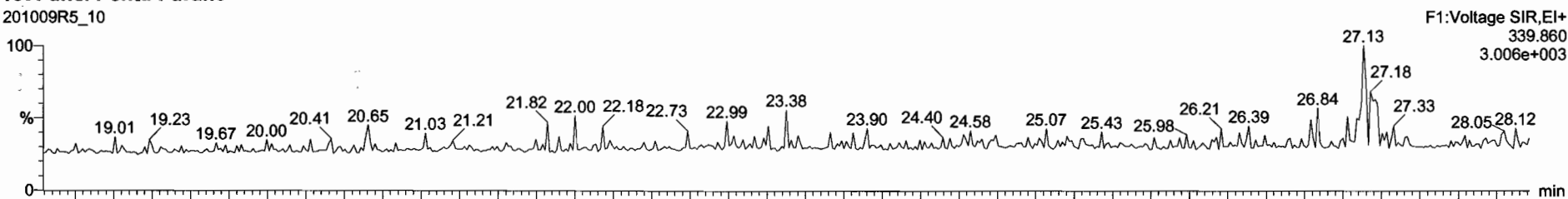
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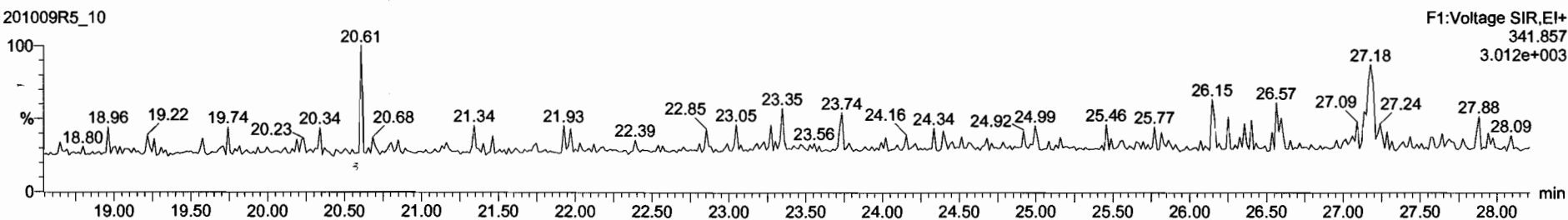
Name: 201009R5\_10, Date: 09-Oct-2020, Time: 22:56:11, ID: B0J0073-BS1 OPR 10, Description: OPR

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201009R5\_10

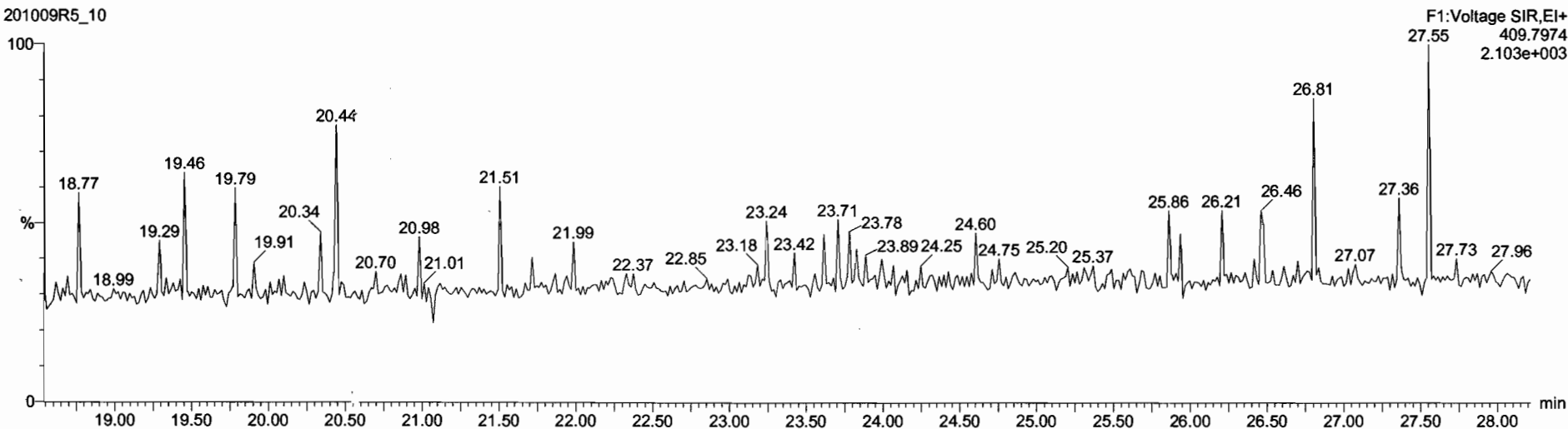


201009R5\_10



DPE6

201009R5\_10



Dataset: Untitled

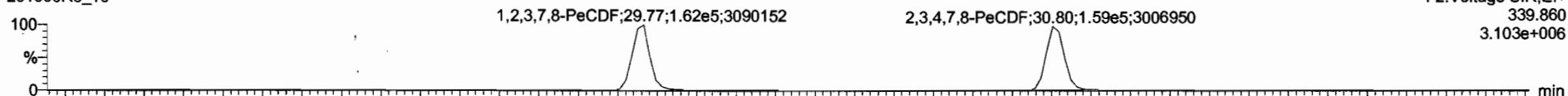
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Printed: Monday, October 12, 2020 15:13:18 Pacific Daylight Time

Name: 201009R5\_10, Date: 09-Oct-2020, Time: 22:56:11, ID: B0J0073-BS1 OPR 10, Description: OPR

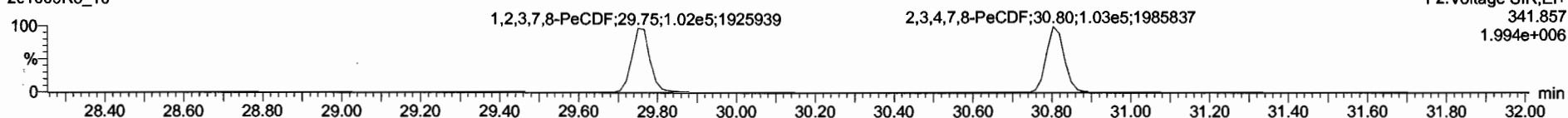
**1,2,3,7,8-PeCDF**

201009R5\_10



F2:Voltage SIR,EI+  
339.860  
3.103e+006

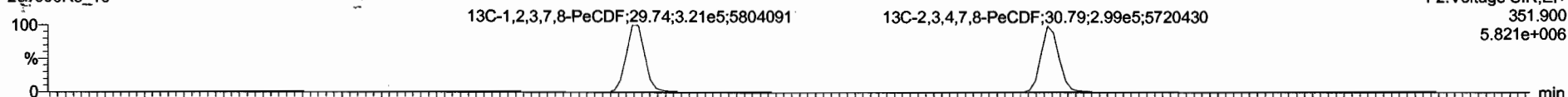
201009R5\_10



F2:Voltage SIR,EI+  
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1.994e+006

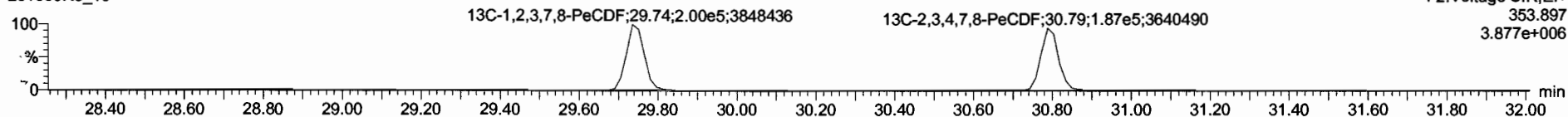
**13C-1,2,3,7,8-PeCDF**

201009R5\_10



F2:Voltage SIR,EI+  
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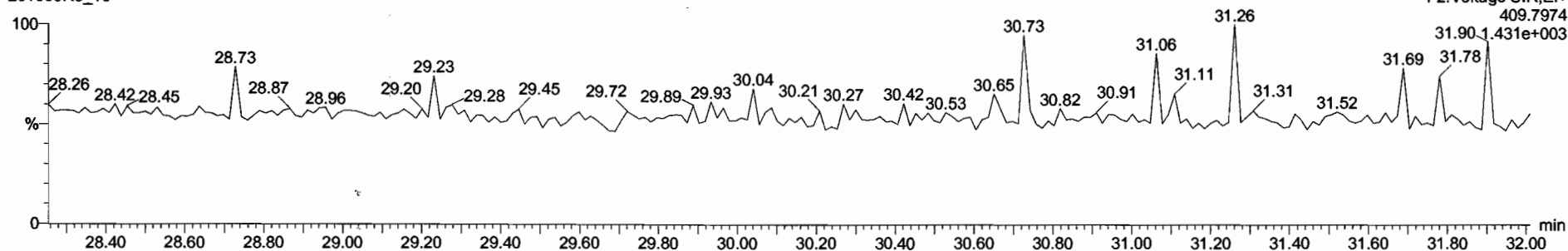
201009R5\_10



F2:Voltage SIR,EI+  
353.897  
3.877e+006

**DPE2**

201009R5\_10



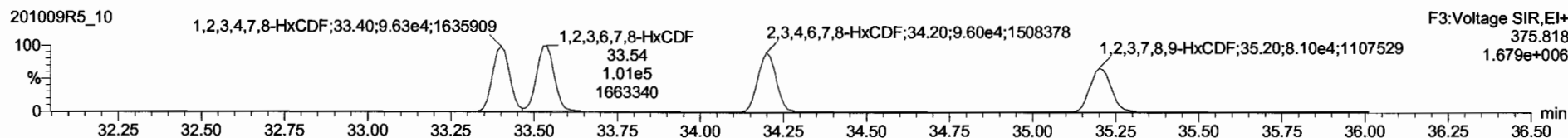
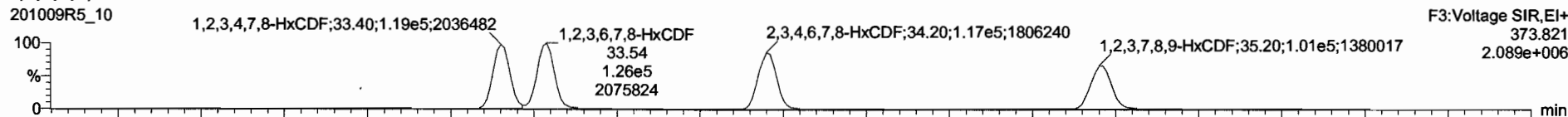
F2:Voltage SIR,EI+  
409.7974  
1.431e+003

Dataset: Untitled

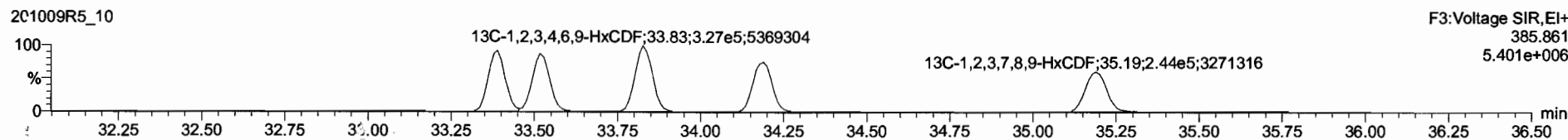
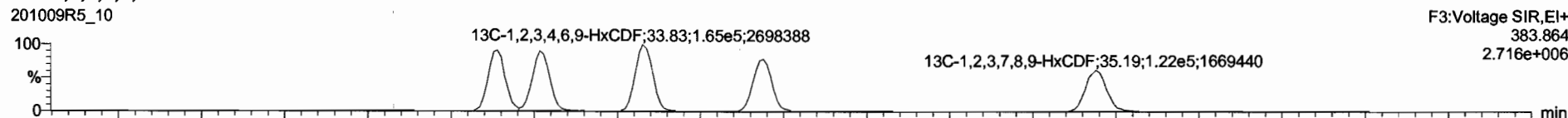
Last Altered: Monday, October 12, 2020 15:12:46 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:13:18 Pacific Daylight Time

Name: 201009R5\_10, Date: 09-Oct-2020, Time: 22:56:11, ID: B0J0073-BS1 OPR 10, Description: OPR

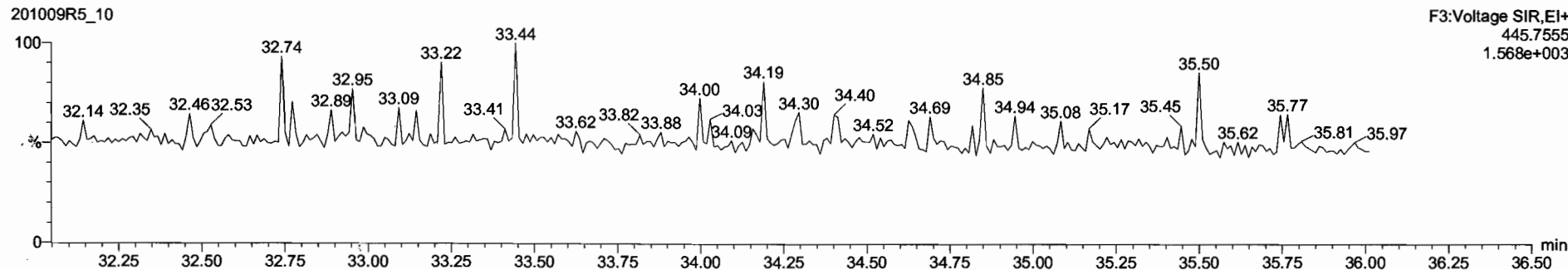
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



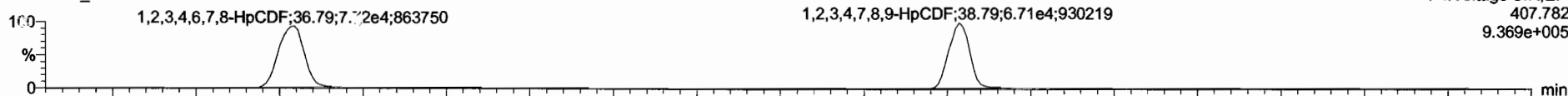
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Last Altered: Monday, October 12, 2020 15:12:46 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:13:18 Pacific Daylight Time

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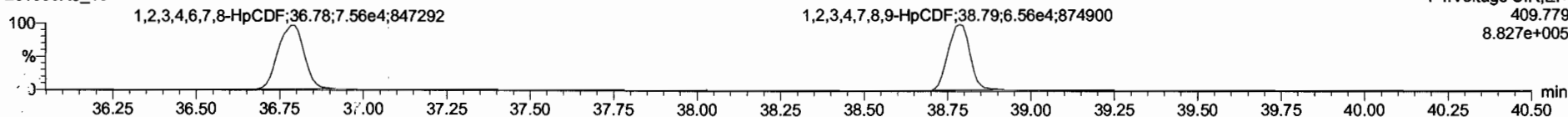
**1,2,3,4,6,7,8-HpCDF**

201009R5\_10



F4:Voltage SIR,El+  
407.782  
9.369e+005

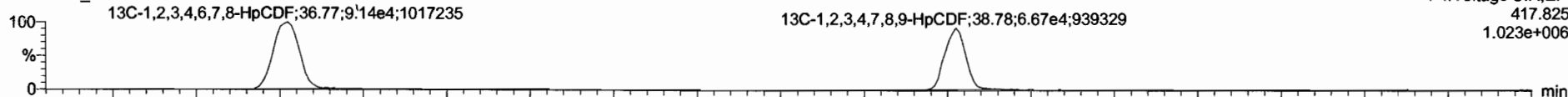
201009R5\_10



F4:Voltage SIR,El+  
409.779  
8.827e+005

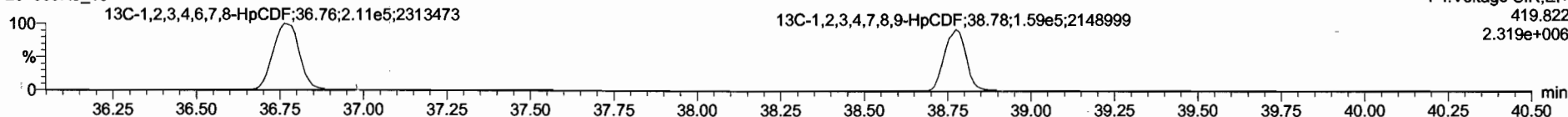
**13C-1,2,3,4,6,7,8-HpCDF**

201009R5\_10



F4:Voltage SIR,El+  
417.825  
1.023e+006

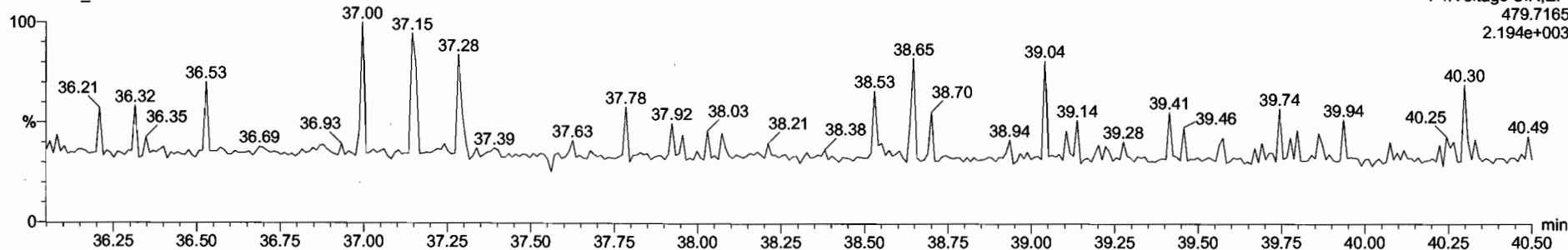
201009R5\_10



F4:Voltage SIR,El+  
419.822  
2.319e+006

**DPE4**

201009R5\_10



F4:Voltage SIR,El+  
479.7165  
2.194e+003

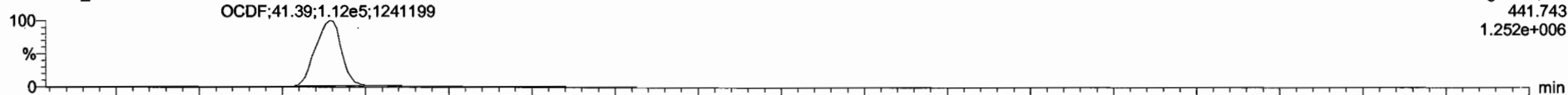
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Last Altered: Monday, October 12, 2020 15:12:46 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:13:18 Pacific Daylight Time

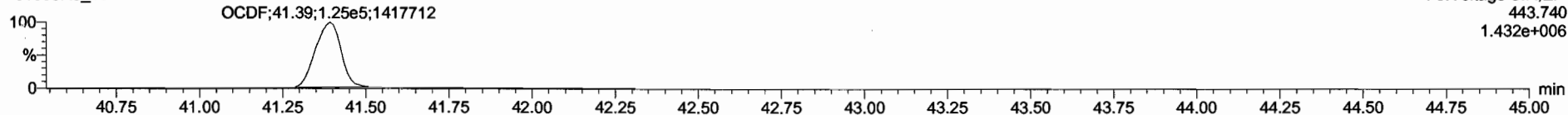
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**OCDF**

201009R5\_10

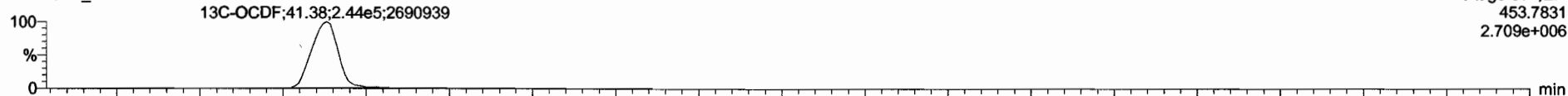


201009R5\_10

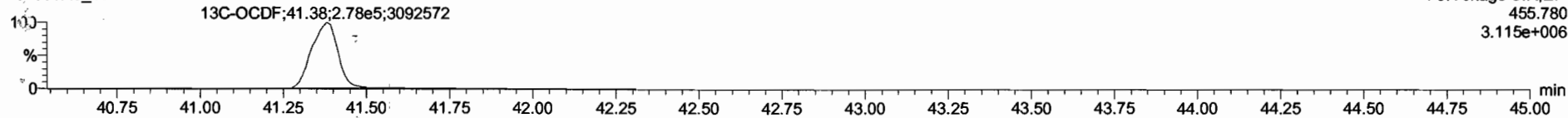


**<sup>13</sup>C-OCDF**

201009R5\_10

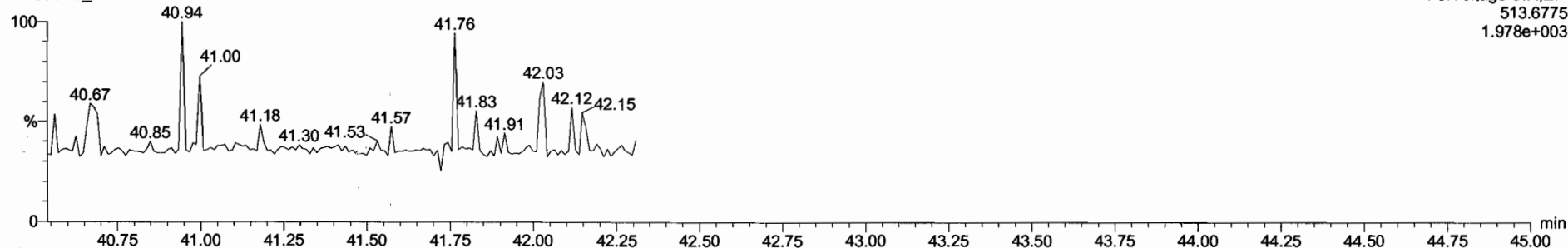


201009R5\_10



**DPE5**

201009R5\_10

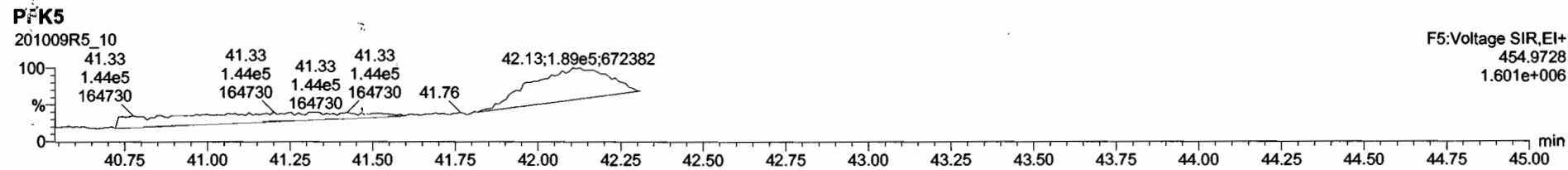
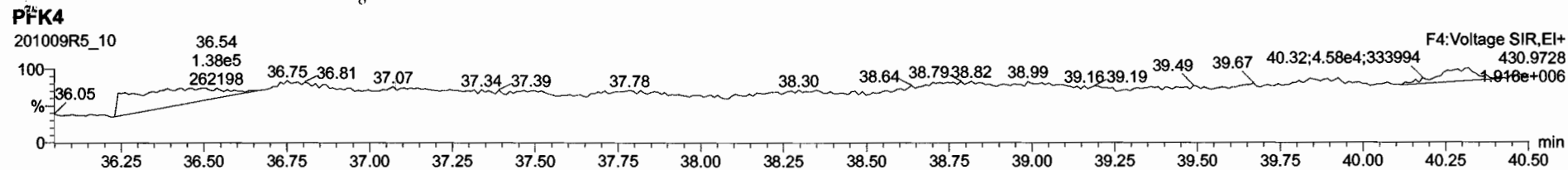
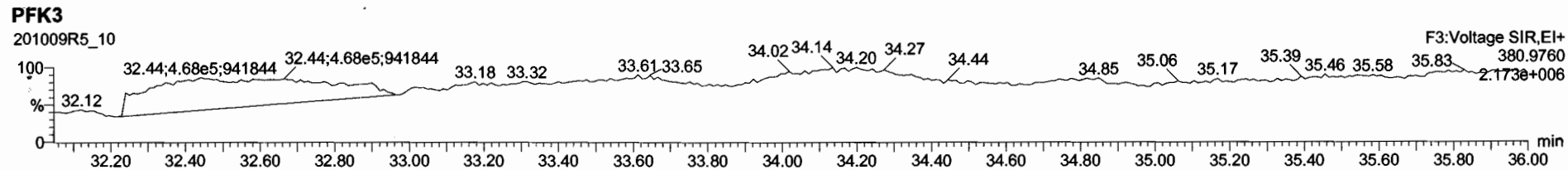
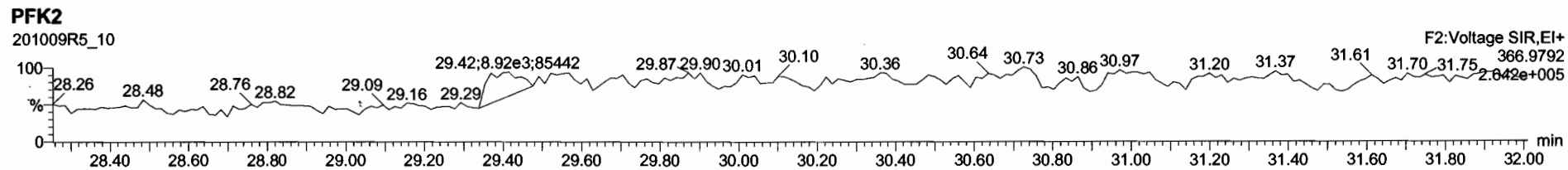
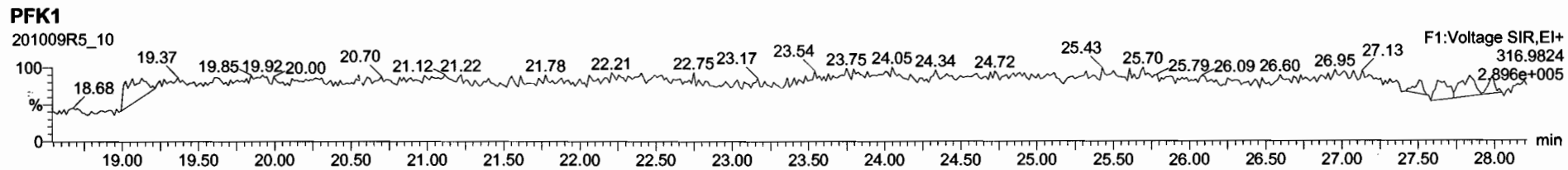


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Last Altered: Monday, October 12, 2020 15:12:46 Pacific Daylight Time

Printed: Monday, October 12, 2020 15:13:18 Pacific Daylight Time

Name: 201009R5\_10, Date: 09-Oct-2020, Time: 22:56:11, ID: B0J0073-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200930R1\200930R1-9B.qld

Last Altered: Thursday, October 22, 2020 07:26:51 Pacific Daylight Time

Printed: Thursday, October 22, 2020 07:29:38 Pacific Daylight Time

GRB 10/22/2020

Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\ldbdIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

\* SEE DIL.

9/10/22/2020

Name: 200930R1\_9, Date: 30-Sep-2020, Time: 16:01:05, ID: 2001995-01 PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

#	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	4.76e3	0.52	YES	1.02	10.035	26.470	26.45	1.001	1.001	0.79215		0.0512	0.627
2	2 1,2,3,7,8-PeCDD	9.64e3	0.60	NO	0.956	10.035	31.083	31.08	1.001	1.000	2.0317		0.0917	2.03
3	3 1,2,3,4,7,8-HxCDD	1.75e4	1.33	NO	1.00	10.035	34.378	34.39	1.000	1.001	4.4929		0.351	4.49
4	4 1,2,3,6,7,8-HxCDD	1.15e5	1.26	NO	0.888	10.035	34.496	34.51	1.000	1.000	29.711		0.373	29.7
5	5 1,2,3,7,8,9-HxCDD	4.51e4	1.23	NO	0.909	10.035	34.772	34.78	1.000	1.001	11.411		0.372	11.4
6	6 1,2,3,4,6,7,8-HpCDD	4.40e6	1.01	NO	0.832	10.035	38.221	38.22	1.000	1.000	1386.2		1.47	1390
7	7 OCDD	2.14e7	0.88	NO	0.862	10.035	41.146	41.16	1.000	1.000	8636.2 <del>✗</del>		0.945	8640
8	8 2,3,7,8-TCDF	5.24e5	0.75	NO	0.735	10.035	25.777	25.79	1.000	1.001	101.64		0.109	102
9	9 1,2,3,7,8-PeCDF	6.98e5	1.53	NO	0.939	10.035	29.846	29.84	1.001	1.001	108.77		0.145	109
10	10 2,3,4,7,8-PeCDF	4.99e5	1.56	NO	1.05	10.035	30.878	30.89	1.000	1.000	71.741		0.127	71.7
11	11 1,2,3,4,7,8-HxCDF	5.56e5	1.20	NO	0.842	10.035	33.452	33.47	1.000	1.001	137.54		0.175	138
12	12 1,2,3,6,7,8-HxCDF	1.46e5	1.25	NO	0.894	10.035	33.601	33.60	1.000	1.000	34.513		0.170	34.5
13	13 2,3,4,6,7,8-HxCDF	5.25e4	1.23	NO	0.870	10.035	34.283	34.29	1.001	1.001	13.581		0.194	13.6
14	14 1,2,3,7,8,9-HxCDF	6.13e4	1.19	NO	0.855	10.035	35.284	35.32	1.001	1.002	17.634		0.240	17.6
15	15 1,2,3,4,6,7,8-HpCDF	3.68e5	1.00	NO	0.891	10.035	36.894	36.87	1.001	1.000	122.92		0.385	123
16	16 1,2,3,4,7,8,9-HpCDF	7.34e4	0.99	NO	1.00	10.035	38.827	38.84	1.000	1.000	26.045		0.337	26.0
17	17 OCDF	1.04e6	0.86	NO	0.784	10.035	41.433	41.46	1.000	1.001	483.27		0.411	483
18	18 13C-2,3,7,8-TCDD	1.18e6	0.79	NO	1.15	10.035	26.426	26.44	1.029	1.029	192.15	96.4	0.142	
19	19 13C-1,2,3,7,8-PeCDD	9.89e5	0.63	NO	0.887	10.035	31.019	31.06	1.207	1.209	209.32	105	0.126	
20	20 13C-1,2,3,4,7,8-HxCDD	7.74e5	1.28	NO	0.801	10.035	34.371	34.37	1.014	1.014	186.92	93.8	0.326	
21	21 13C-1,2,3,6,7,8-HxCDD	8.68e5	1.28	NO	0.892	10.035	34.500	34.50	1.018	1.018	188.32	94.5	0.293	
22	22 13C-1,2,3,7,8,9-HxCDD	8.67e5	1.25	NO	0.882	10.035	34.761	34.76	1.025	1.025	189.97	95.3	0.296	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.61e5	1.05	NO	0.719	10.035	38.195	38.21	1.127	1.127	204.72	103	0.455	
24	24 13C-OCDD	1.15e6	0.88	NO	0.563	10.035	41.124	41.15	1.213	1.214	393.79	98.8	0.805	*
25	25 13C-2,3,7,8-TCDF	1.40e6	0.78	NO	1.01	10.035	25.769	25.76	1.003	1.003	185.23	92.9	0.197	
26	26 13C-1,2,3,7,8-PeCDF	1.36e6	1.60	NO	0.814	10.035	29.779	29.83	1.159	1.161	223.91	112	0.380	
27	27 13C-2,3,4,7,8-PeCDF	1.32e6	1.58	NO	0.768	10.035	30.817	30.88	1.200	1.202	229.97	115	0.403	
28	28 13C-1,2,3,4,7,8-HxCDF	9.57e5	0.51	NO	0.993	10.035	33.449	33.45	0.987	0.987	186.52	93.6	0.323	
29	29 13C-1,2,3,6,7,8-HxCDF	9.45e5	0.51	NO	0.990	10.035	33.592	33.59	0.991	0.991	184.61	92.6	0.324	
30	30 13C-2,3,4,6,7,8-HxCDF	8.85e5	0.50	NO	0.944	10.035	34.259	34.26	1.011	1.011	181.30	91.0	0.340	
31	31 13C-1,2,3,7,8,9-HxCDF	8.10e5	0.51	NO	0.842	10.035	35.276	35.26	1.041	1.040	186.29	93.5	0.381	

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-9B.qld

Last Altered: Thursday, October 22, 2020 07:26:51 Pacific Daylight Time

Printed: Thursday, October 22, 2020 07:29:38 Pacific Daylight Time

Name: 200930R1\_9, Date: 30-Sep-2020, Time: 16:01:05, ID: 2001995-01 PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

#	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	6.70e5	0.43	NO	0.687	10.035	36.866	36.86	1.087	1.087	188.74	94.7	0.449	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.62e5	0.43	NO	0.555	10.035	38.816	38.83	1.145	1.145	196.06	98.4	0.556	
34	34 13C-OCDF	1.10e6	0.88	NO	0.608	10.035	41.405	41.43	1.221	1.222	348.34	87.4	0.482	
35	35 37Cl-2,3,7,8-TCDD	4.28e5			1.18	10.035	26.457	26.47	1.030	1.030	68.135	85.5	0.0508	
36	36 13C-1,2,3,4-TCDD	1.06e6	0.79	NO	1.00	10.035	25.740	25.69	1.000	1.000	199.30	100	0.164	
37	37 13C-1,2,3,4-TCDF	1.49e6	0.79	NO	1.00	10.035	24.310	24.24	1.000	1.000	199.30	100	0.199	
38	38 13C-1,2,3,4,6,9-HxCDF	1.03e6	0.51	NO	1.00	10.035	33.920	33.90	1.000	1.000	199.30	100	0.321	
39	39 Total Tetra-Dioxins				1.02	10.035	24.620		0.000		24.474		0.0512	26.7
40	40 Total Penta-Dioxins				0.956	10.035	29.960		0.000		43.829		0.0917	47.2
41	41 Total Hexa-Dioxins				0.888	10.035	33.635		0.000		577.19		0.383	577
42	42 Total Hepta-Dioxins				0.832	10.035	37.640		0.000		3901.5		1.47	3900
43	43 Total Tetra-Furans				0.735	10.035	23.610		0.000		287.68		0.109	311
44	44 1st Func. Penta-Furans				0.939	10.035	27.230		0.000		55.755		0.0203	55.8
45	45 Total Penta-Furans				0.939	10.035	29.275		0.000		324.87		0.143	331
46	46 Total Hexa-Furans				0.870	10.035	33.555		0.000		379.54		0.192	380
47	47 Total Hepta-Furans				0.891	10.035	37.835		0.000		578.78		0.382	579



Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-9B.qld

Last Altered: Thursday, October 22, 2020 07:26:51 Pacific Daylight Time

Printed: Thursday, October 22, 2020 07:29:38 Pacific Daylight Time

Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_9, Date: 30-Sep-2020, Time: 16:01:05, ID: 2001995-01 PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.77	4.173e5	5.401e5	3.315e4	4.390e4	0.76	NO	7.705e4	12.817	12.817	0.0512
2	Total Tetra-Dioxins	23.10	5.565e4	6.470e4	4.711e3	5.875e3	0.80	NO	1.059e4	1.7609	1.7609	0.0512
3	Total Tetra-Dioxins	23.62	3.278e4	3.775e4	2.438e3	3.031e3	0.80	NO	5.469e3	0.90971	0.90971	0.0512
4	Total Tetra-Dioxins	24.40	2.004e4	2.214e4	1.574e3	1.636e3	0.96	YES	0.000e0	0.00000	0.48168	0.0512
5	Total Tetra-Dioxins	24.63	6.489e4	8.224e4	5.402e3	6.609e3	0.82	NO	1.201e4	1.9979	1.9979	0.0512
6	Total Tetra-Dioxins	24.85	4.240e4	5.448e4	3.532e3	3.858e3	0.92	YES	0.000e0	0.00000	1.1359	0.0512
7	Total Tetra-Dioxins	25.05	1.939e4	2.730e4	1.557e3	1.923e3	0.81	NO	3.481e3	0.57895	0.57895	0.0512
8	Total Tetra-Dioxins	25.34	1.720e4	2.216e4	1.125e3	1.473e3	0.76	NO	2.599e3	0.43228	0.43228	0.0512
9	Total Tetra-Dioxins	25.42	3.273e4	4.119e4	2.086e3	2.974e3	0.70	NO	5.061e3	0.84175	0.84175	0.0512
10	Total Tetra-Dioxins	25.70	6.370e3	9.750e3	3.200e2	4.188e2	0.76	NO	7.389e2	0.12290	0.12290	0.0512
11	Total Tetra-Dioxins	25.79	2.433e4	3.289e4	1.859e3	2.167e3	0.86	NO	4.026e3	0.66966	0.66966	0.0512
12	Total Tetra-Dioxins	25.93	1.763e4	1.736e4	1.095e3	1.248e3	0.88	NO	2.343e3	0.38973	0.38973	0.0512
13	Total Tetra-Dioxins	26.20	7.780e4	1.044e5	7.227e3	9.161e3	0.79	NO	1.639e4	2.7260	2.7260	0.0512
14	2,3,7,8-TCDD	26.45	2.851e4	4.579e4	1.639e3	3.124e3	0.52	YES	4.762e3	0.00000	0.62659	0.0512
15	Total Tetra-Dioxins	26.77	3.293e4	3.461e4	1.850e3	2.200e3	0.84	NO	4.049e3	0.67352	0.67352	0.0512
16	Total Tetra-Dioxins	26.90	8.732e3	9.951e3	4.926e2	6.624e2	0.74	NO	1.155e3	0.19211	0.19211	0.0512
17	Total Tetra-Dioxins	27.34	1.550e4	1.955e4	8.866e2	1.288e3	0.69	NO	2.175e3	0.36177	0.36177	0.0512

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-9B.qld

Last Altered: Thursday, October 22, 2020 07:26:51 Pacific Daylight Time

Printed: Thursday, October 22, 2020 07:29:38 Pacific Daylight Time

Name: 200930R1\_9, Date: 30-Sep-2020, Time: 16:01:05, ID: 2001995-01 PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.86	2.346e5	3.822e5	2.161e4	3.432e4	0.63	NO	5.592e4	11.790	11.790	0.0917
2	Total Penta-Dioxins	29.32	1.737e5	2.487e5	9.312e3	1.450e4	0.64	NO	2.381e4	5.0203	5.0203	0.0917
3	Total Penta-Dioxins	29.84	2.283e5	3.817e5	1.220e4	2.023e4	0.60	NO	3.244e4	6.8383	6.8383	0.0917
4	Total Penta-Dioxins	30.02	1.162e5	1.725e5	5.471e3	8.089e3	0.68	NO	1.356e4	2.8588	2.8588	0.0917
5	Total Penta-Dioxins	30.05	9.886e4	1.660e5	6.172e3	9.776e3	0.63	NO	0.000e0	0.00000	3.3623	0.0917
6	Total Penta-Dioxins	30.31	2.430e5	4.164e5	1.733e4	2.672e4	0.65	NO	4.405e4	9.2873	9.2873	0.0917
7	Total Penta-Dioxins	30.62	5.740e4	8.191e4	3.301e3	4.861e3	0.68	NO	8.162e3	1.7208	1.7208	0.0917
8	Total Penta-Dioxins	30.92	6.715e3	7.768e3	3.084e2	4.684e2	0.66	NO	7.768e2	0.16377	0.16377	0.0917
9	1,2,3,7,8-PeCDD	31.08	6.677e4	1.168e5	3.598e3	6.039e3	0.60	NO	9.637e3	2.0317	2.0317	0.0917
10	Total Penta-Dioxins	31.17	7.824e4	1.152e5	4.688e3	6.667e3	0.70	NO	1.135e4	2.3939	2.3939	0.0917
11	Total Penta-Dioxins	31.43	5.386e4	7.785e4	3.392e3	4.786e3	0.71	NO	8.178e3	1.7241	1.7241	0.0917

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.74	1.260e7	1.042e7	5.405e5	4.451e5	1.21	NO	9.856e5	264.51	264.51	0.383
2	Total Hexa-Dioxins	33.33	1.140e6	8.850e5	5.851e4	4.670e4	1.25	NO	1.052e5	28.237	28.237	0.383
3	Total Hexa-Dioxins	33.63	5.555e6	4.597e6	4.093e5	3.367e5	1.22	NO	7.460e5	200.20	200.20	0.383
4	Total Hexa-Dioxins	33.73	9.211e5	7.183e5	5.115e4	4.162e4	1.23	NO	9.277e4	24.896	24.896	0.383
5	1,2,3,4,7,8-HxCDD	34.39	1.765e5	1.330e5	9.993e3	7.492e3	1.33	NO	1.749e4	4.4929	4.4929	0.351
6	1,2,3,6,7,8-HxCDD	34.51	1.098e6	8.881e5	6.416e4	5.077e4	1.26	NO	1.149e5	29.711	29.711	0.373
7	Total Hexa-Dioxins	34.67	4.885e5	3.878e5	2.861e4	2.254e4	1.27	NO	5.115e4	13.729	13.729	0.383
8	1,2,3,7,8,9-HxCDD	34.78	3.814e5	3.074e5	2.491e4	2.020e4	1.23	NO	4.512e4	11.411	11.411	0.372

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.26	5.383e7	5.334e7	4.018e6	3.968e6	1.01	NO	7.986e6	2515.3	2515.3	1.47
2	1,2,3,4,6,7,8-HpCDD	38.22	3.909e7	3.836e7	2.215e6	2.186e6	1.01	NO	4.401e6	1386.2	1386.2	1.47

Dataset: U:\WG12.PRO\Results\200930R1\200930R1-9B.qld

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**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.50	1.351e4	2.263e4	1.271e3	1.803e3	0.71	NO	3.073e3	0.59589	0.59589	0.109
2	Total Tetra-Furans	21.07	5.654e4	7.569e4	5.158e3	6.758e3	0.76	NO	1.192e4	2.3102	2.3102	0.109
3	Total Tetra-Furans	21.89	3.202e5	4.502e5	2.966e4	4.042e4	0.73	NO	7.008e4	13.588	13.588	0.109
4	Total Tetra-Furans	22.26	2.509e4	3.543e4	2.060e3	2.640e3	0.78	NO	0.000e0	0.00000	0.91129	0.109
5	Total Tetra-Furans	22.38	4.080e4	5.778e4	4.014e3	5.681e3	0.71	NO	9.695e3	1.8798	1.8798	0.109
6	Total Tetra-Furans	22.47	4.013e4	5.140e4	3.226e3	4.535e3	0.71	NO	0.000e0	0.00000	1.5047	0.109
7	Total Tetra-Furans	22.80	6.247e5	8.407e5	5.558e4	7.328e4	0.76	NO	1.289e5	24.985	24.985	0.109
8	Total Tetra-Furans	23.25	3.223e5	4.304e5	2.658e4	3.535e4	0.75	NO	6.193e4	12.008	12.008	0.109
9	Total Tetra-Furans	23.38	2.901e4	3.418e4	2.016e3	2.866e3	0.70	NO	4.882e3	0.94658	0.94658	0.109
10	Total Tetra-Furans	23.61	9.846e4	1.287e5	7.319e3	9.466e3	0.77	NO	1.678e4	3.2543	3.2543	0.109
11	Total Tetra-Furans	24.00	1.893e4	2.369e4	1.453e3	2.064e3	0.70	NO	3.518e3	0.68204	0.68204	0.109
12	Total Tetra-Furans	24.12	3.011e4	4.963e4	2.129e3	3.096e3	0.69	NO	5.225e3	1.0130	1.0130	0.109
13	Total Tetra-Furans	24.36	3.818e5	5.169e5	3.484e4	4.744e4	0.73	NO	0.000e0	0.00000	15.952	0.109
14	Total Tetra-Furans	24.79	2.896e6	3.808e6	2.083e5	2.770e5	0.75	NO	4.853e5	94.095	94.095	0.109
15	Total Tetra-Furans	25.11	1.182e5	1.384e5	7.265e3	9.418e3	0.77	NO	1.668e4	3.2346	3.2346	0.109
16	Total Tetra-Furans	25.23	1.864e4	2.092e4	9.125e2	1.123e3	0.81	NO	2.036e3	0.39473	0.39473	0.109
17	Total Tetra-Furans	25.50	5.065e4	6.626e4	3.141e3	4.373e3	0.72	NO	7.515e3	1.4569	1.4569	0.109
18	Total Tetra-Furans	25.66	3.966e5	5.478e5	2.450e4	3.278e4	0.75	NO	5.728e4	11.105	11.105	0.109
19	2,3,7,8-TCDF	25.79	3.399e6	4.444e6	2.239e5	3.003e5	0.75	NO	5.243e5	101.64	101.64	0.109
20	Total Tetra-Furans	26.08	1.393e5	1.901e5	1.147e4	1.528e4	0.75	NO	2.675e4	5.1869	5.1869	0.109
21	Total Tetra-Furans	26.35	1.963e4	2.691e4	1.336e3	1.762e3	0.76	NO	3.099e3	0.60074	0.60074	0.109
22	Total Tetra-Furans	27.01	2.115e4	1.706e4	2.023e3	8.987e2	2.25	YES	0.000e0	0.00000	0.30842	0.109
23	Total Tetra-Furans	27.28	6.546e4	7.734e4	4.053e3	5.039e3	0.80	NO	9.092e3	1.7628	1.7628	0.109
24	Total Tetra-Furans	27.45	3.507e5	2.328e5	2.071e4	1.306e4	1.59	YES	0.000e0	0.00000	4.4815	0.109
25	Total Tetra-Furans	27.64	2.820e5	3.598e5	1.533e4	2.046e4	0.75	NO	3.579e4	6.9387	6.9387	0.109

**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	27.26	3.681e6	2.294e6	2.161e5	1.362e5	1.59	NO	3.523e5	55.755	55.755	0.0203

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**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.71	1.857e5	1.172e5	1.136e4	7.269e3	1.56	NO	1.863e4	2.9484	2.9484	0.143
2	Total Penta-Furans	28.86	3.842e6	2.463e6	2.701e5	1.729e5	1.56	NO	4.430e5	70.115	70.115	0.143
3	Total Penta-Furans	29.49	7.064e5	4.636e5	4.286e4	2.682e4	1.60	NO	6.968e4	11.028	11.028	0.143
4	Total Penta-Furans	29.64	1.162e6	7.087e5	5.653e4	3.597e4	1.57	NO	9.250e4	14.641	14.641	0.143
5	1,2,3,7,8-PeCDF	29.84	8.247e6	5.382e6	4.226e5	2.756e5	1.53	NO	6.982e5	108.77	108.77	0.145
6	Total Penta-Furans	30.08	3.218e6	2.161e6	1.695e5	1.100e5	1.54	NO	2.795e5	44.245	44.245	0.143
7	Total Penta-Furans	30.71	1.255e5	7.525e4	5.411e3	3.294e3	1.64	NO	8.705e3	1.3778	1.3778	0.143
8	2,3,4,7,8-PeCDF	30.89	6.200e6	3.905e6	3.040e5	1.947e5	1.56	NO	4.988e5	71.741	71.741	0.127
9	Total Penta-Furans	31.73	2.389e5	1.219e5	1.208e4	5.906e3	2.05	YES	0.000e0	0.00000	2.3838	0.143
10	Total Penta-Furans	31.79	3.031e5	1.725e5	1.371e4	8.787e3	1.56	NO	0.000e0	0.00000	3.5600	0.143

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.21	5.879e5	4.821e5	2.739e4	2.288e4	1.20	NO	5.026e4	12.804	12.804	0.192
2	Total Hexa-Furans	32.38	2.103e6	1.720e6	1.042e5	8.647e4	1.21	NO	1.907e5	48.584	48.584	0.192
3	Total Hexa-Furans	32.79	5.281e4	4.554e4	2.676e3	2.400e3	1.12	NO	5.076e3	1.2933	1.2933	0.192
4	Total Hexa-Furans	33.01	4.533e6	3.714e6	2.223e5	1.825e5	1.22	NO	4.048e5	103.12	103.12	0.192
5	Total Hexa-Furans	33.35	8.953e4	7.460e4	4.566e3	3.641e3	1.25	NO	8.207e3	2.0909	2.0909	0.192
6	1,2,3,4,7,8-HxCDF	33.47	5.686e6	4.738e6	3.039e5	2.522e5	1.20	NO	5.561e5	137.54	137.54	0.175
7	1,2,3,6,7,8-HxCDF	33.60	1.398e6	1.142e6	8.129e4	6.494e4	1.25	NO	1.462e5	34.513	34.513	0.170
8	Total Hexa-Furans	33.92	5.605e4	4.719e4	3.411e3	2.606e3	1.31	NO	6.018e3	1.5330	1.5330	0.192
9	Total Hexa-Furans	34.06	1.302e4	1.294e4	9.820e2	8.396e2	1.17	NO	1.822e3	0.46407	0.46407	0.192
10	2,3,4,6,7,8-HxCDF	34.29	4.687e5	3.747e5	2.895e4	2.350e4	1.23	NO	5.246e4	13.581	13.581	0.194
11	Total Hexa-Furans	35.02	3.264e4	1.245e4	1.601e3	7.823e2	2.05	YES	0.000e0	0.00000	0.44643	0.192
12	1,2,3,7,8,9-HxCDF	35.32	7.604e5	6.226e5	3.328e4	2.805e4	1.19	NO	6.132e4	17.634	17.634	0.240
13	Total Hexa-Furans	35.33	6.368e5	5.194e5	1.423e4	1.081e4	1.32	NO	2.503e4	6.3774	6.3774	0.192

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.87	2.644e6	2.673e6	1.837e5	1.844e5	1.00	NO	3.681e5	122.92	122.92	0.385
2	Total Hepta-Furans	37.35	4.229e4	4.123e4	4.889e3	4.545e3	1.08	NO	9.434e3	3.4267	3.4267	0.382
3	Total Hepta-Furans	37.57	9.332e6	9.298e6	5.895e5	5.845e5	1.01	NO	1.174e6	426.39	426.39	0.382
4	1,2,3,4,7,8,9-HpCDF	38.84	6.676e5	6.734e5	3.662e4	3.682e4	0.99	NO	7.345e4	26.045	26.045	0.337

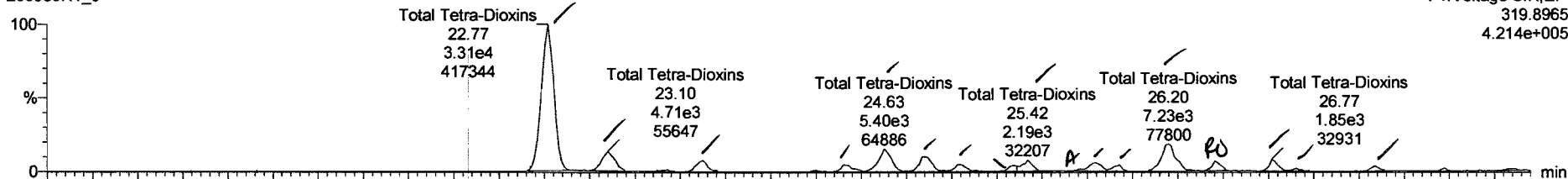
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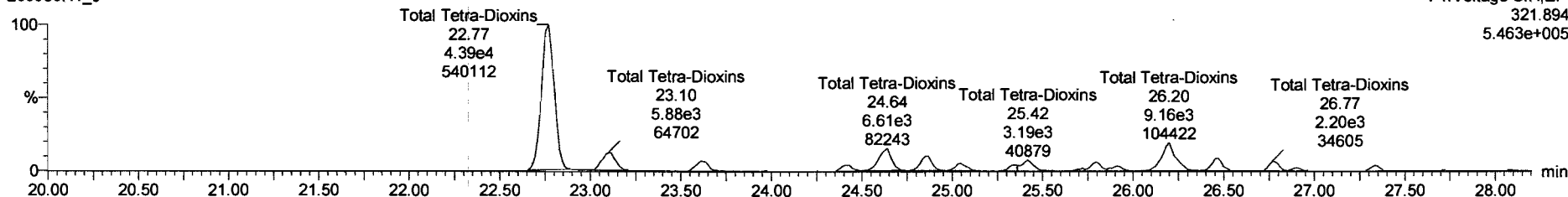
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### 2,3,7,8-TCDD

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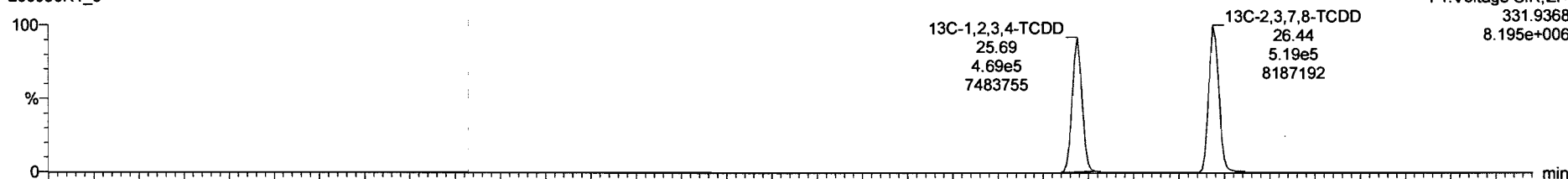


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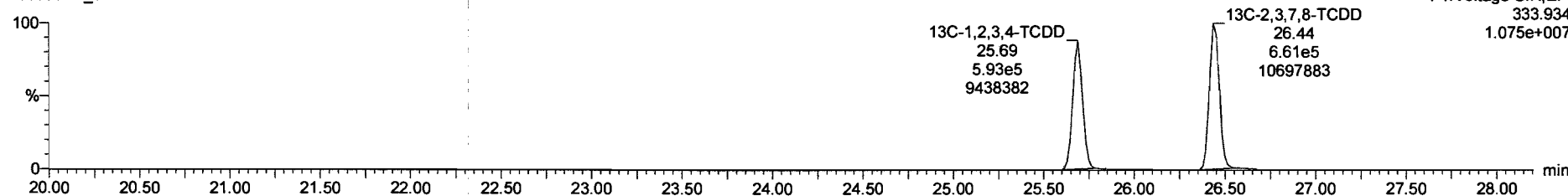


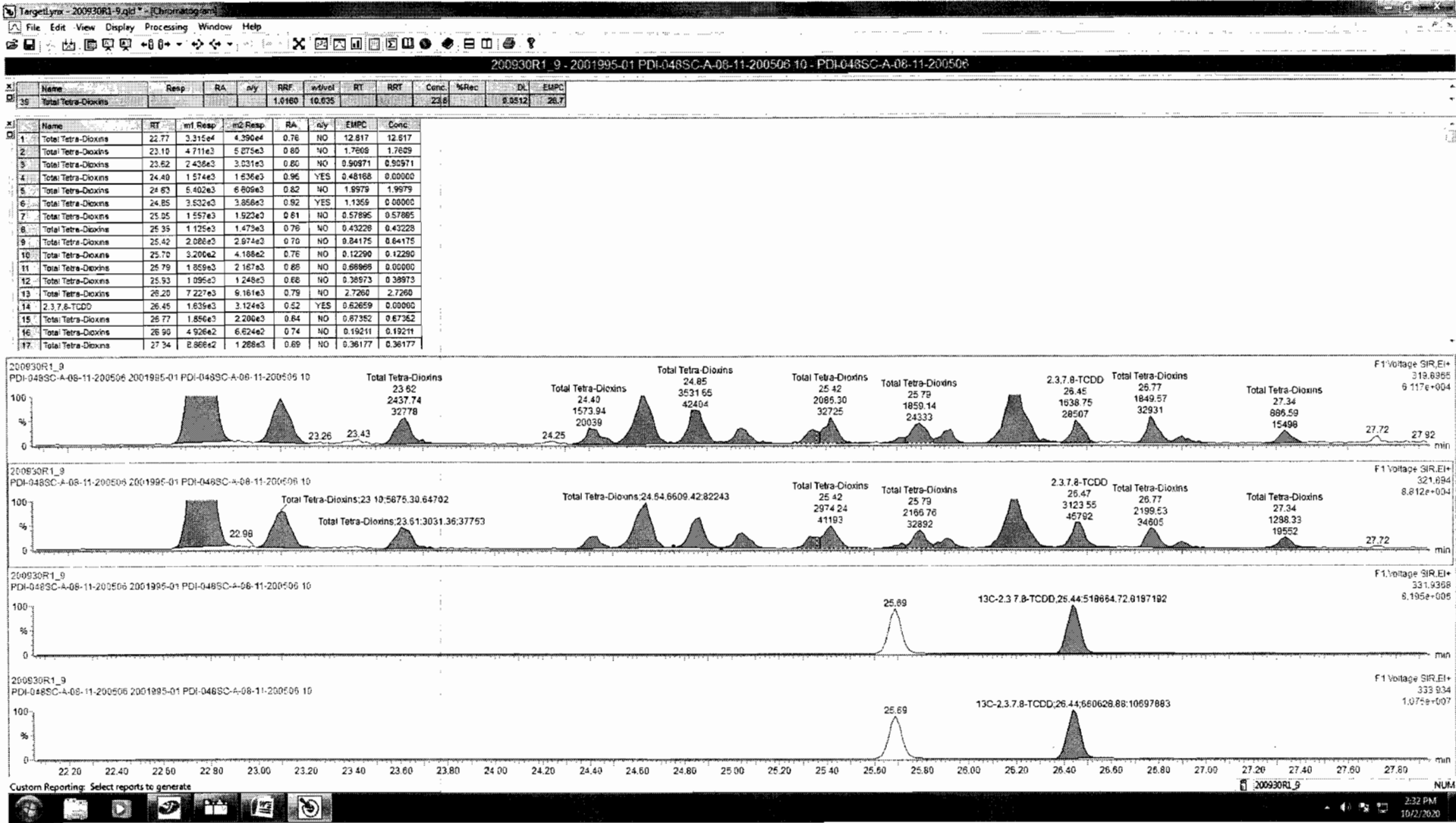
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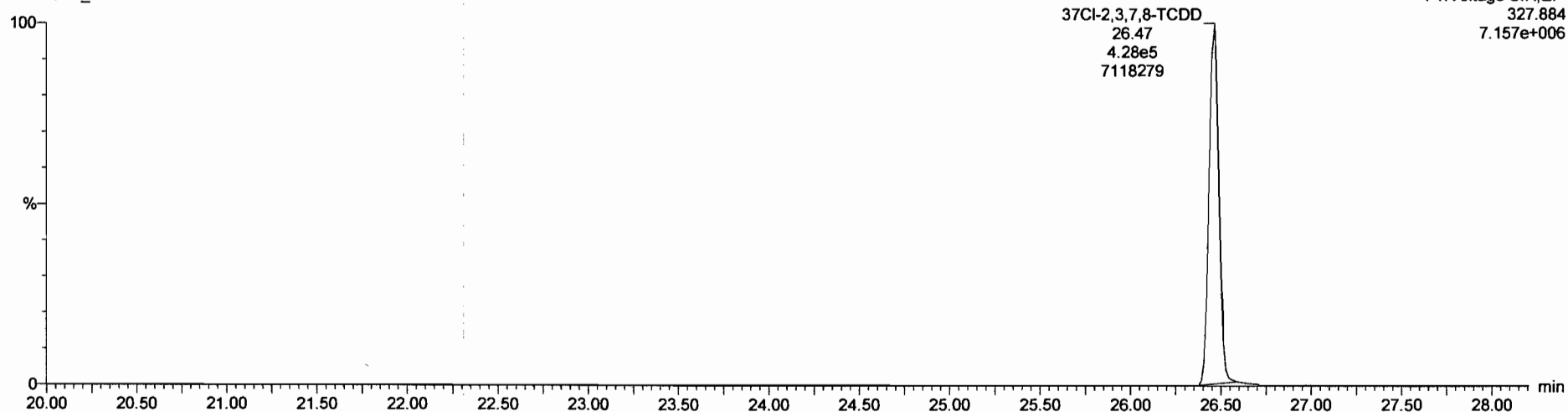
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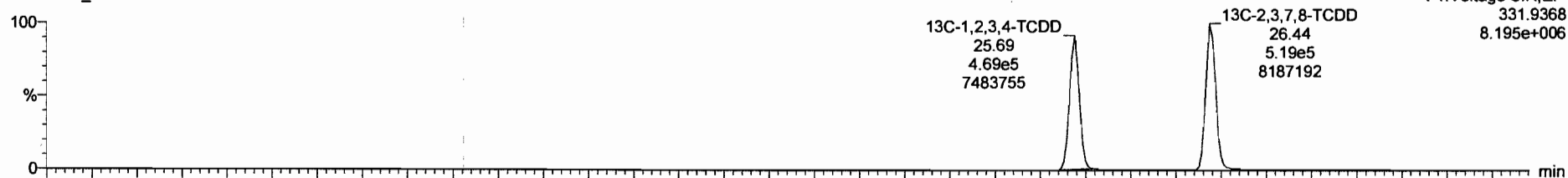
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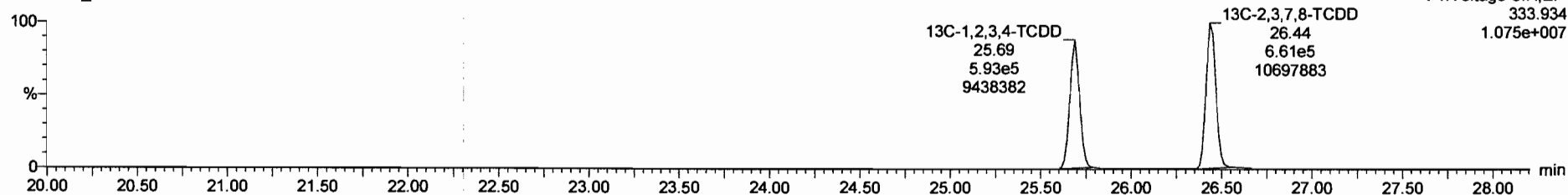


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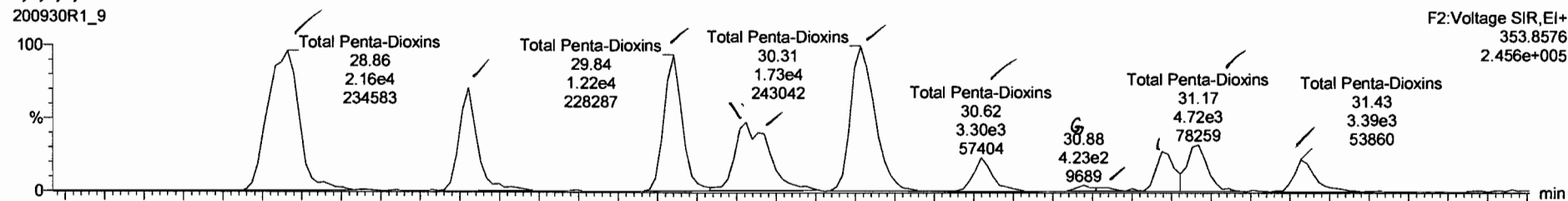
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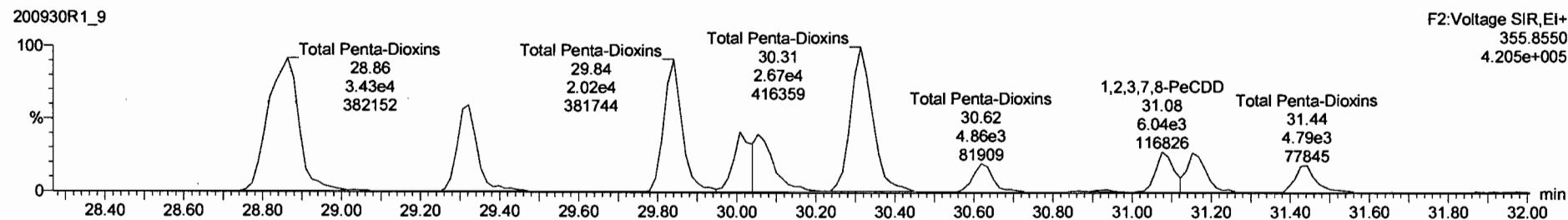
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**1,2,3,7,8-PeCDD**

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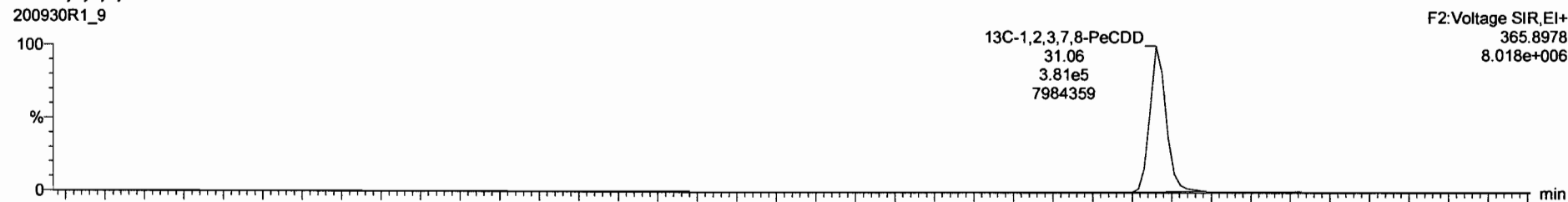


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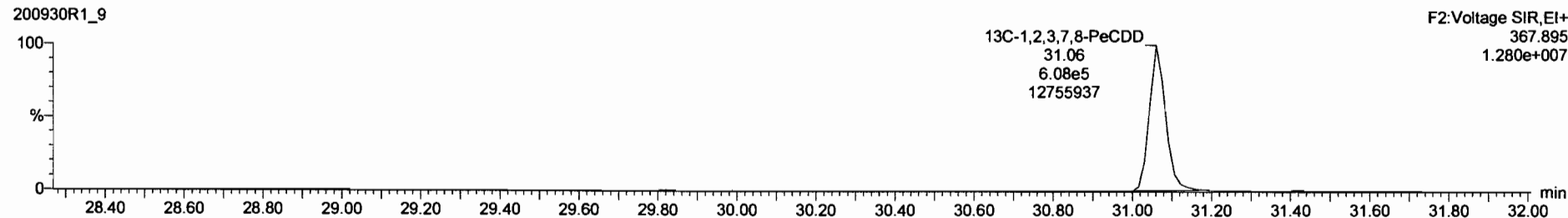


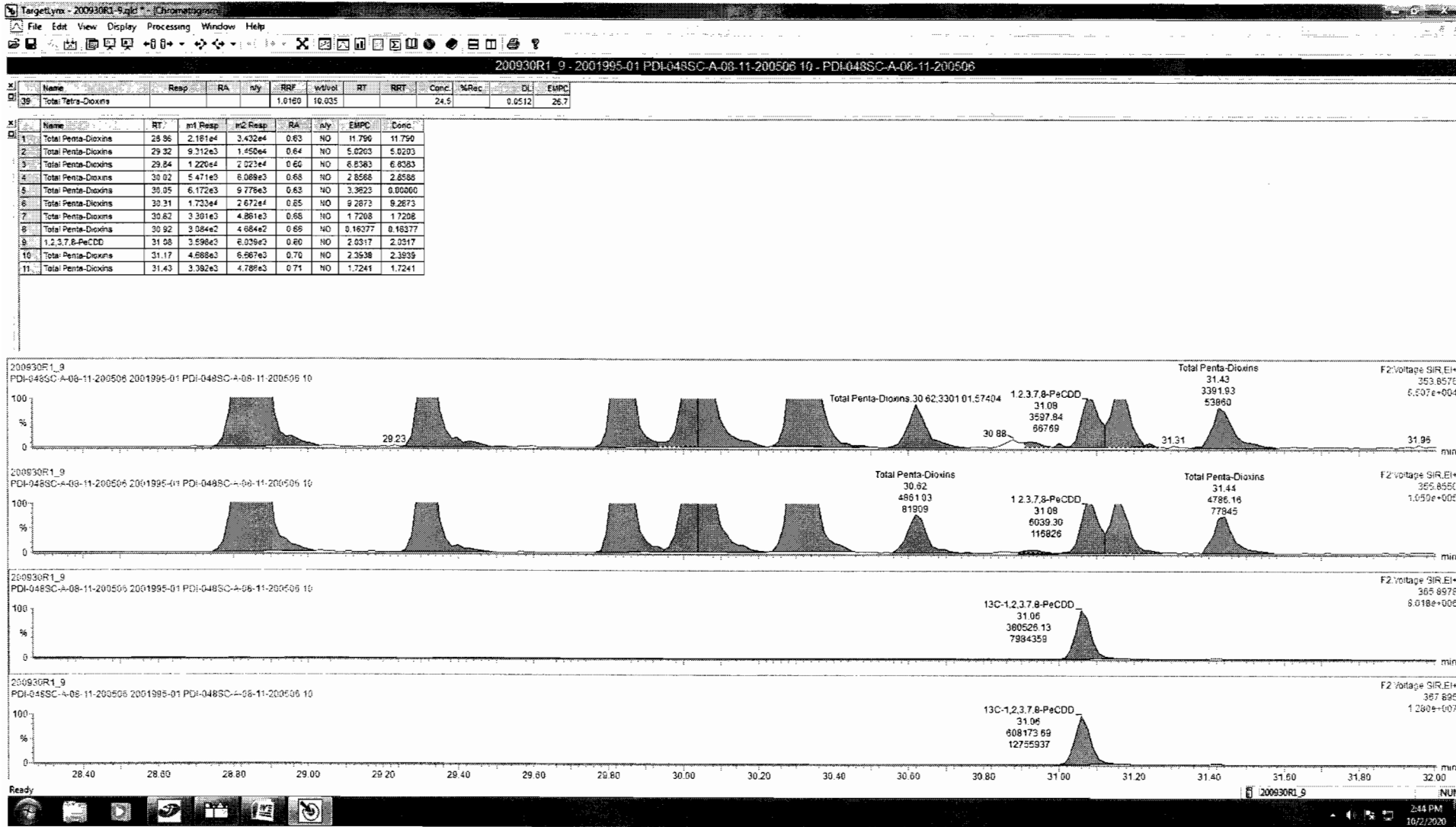
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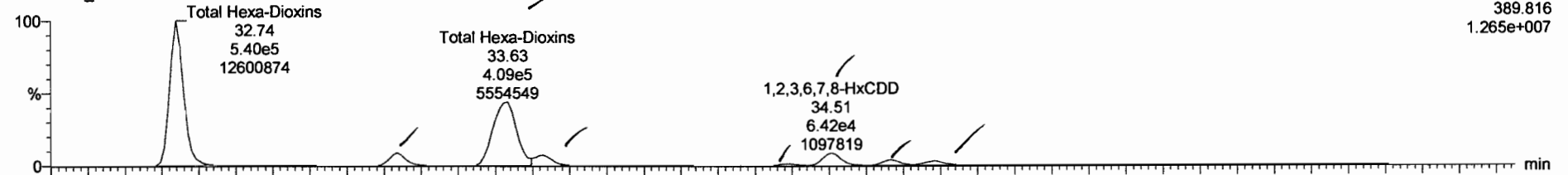
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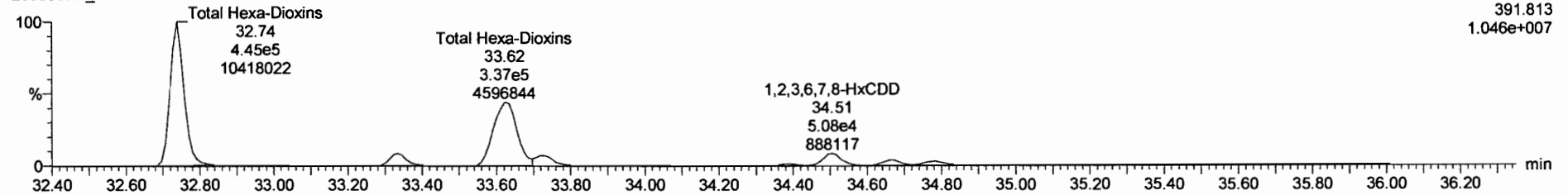
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**1,2,3,4,7,8-HxCDD**

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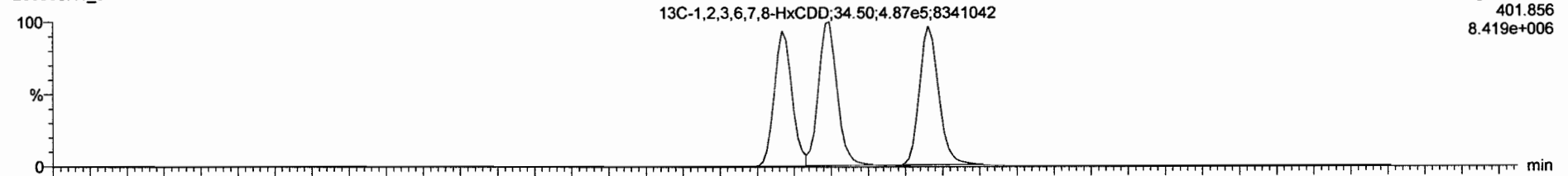


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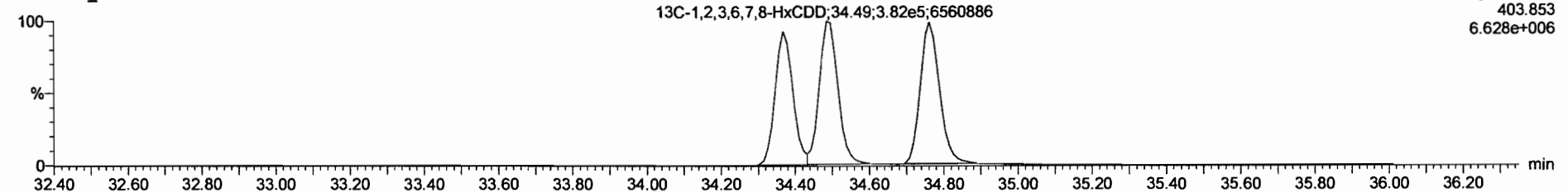


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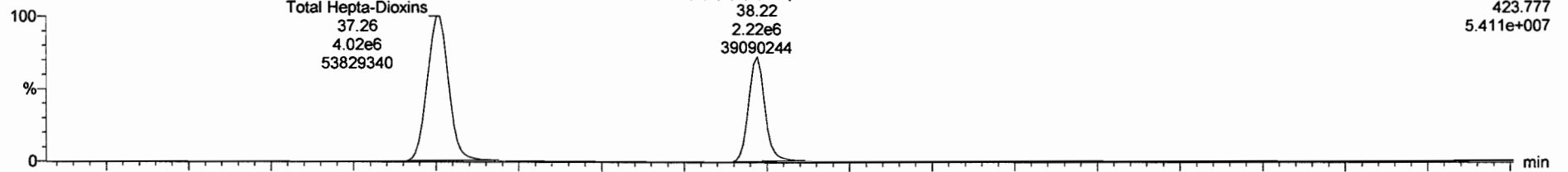
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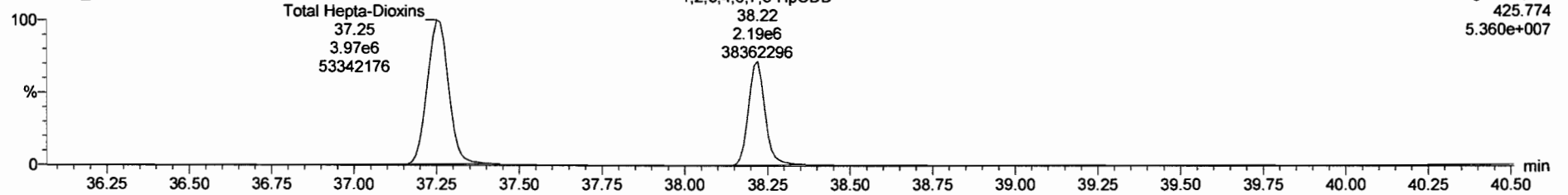
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**1,2,3,4,6,7,8-HpCDD**

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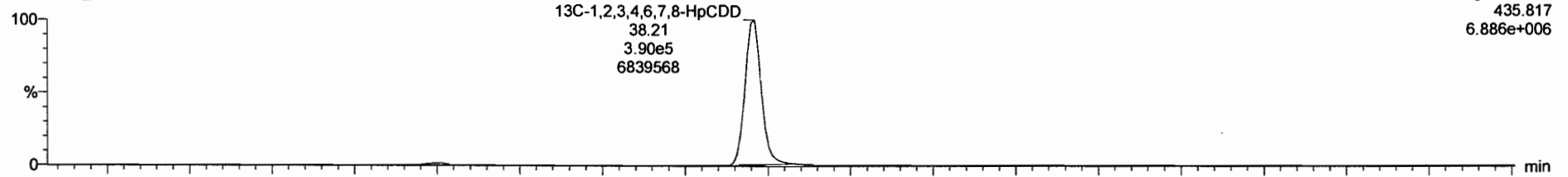


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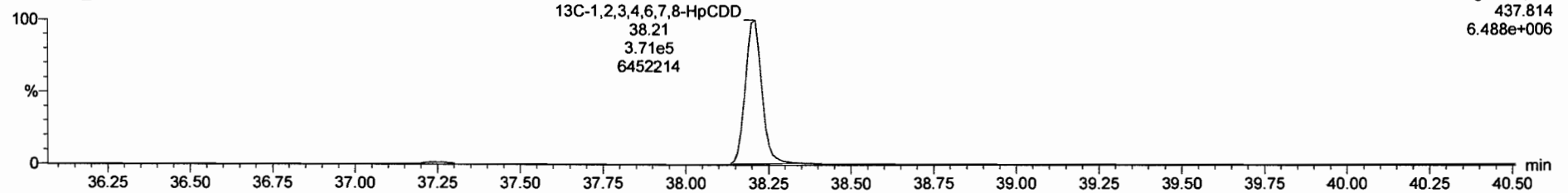


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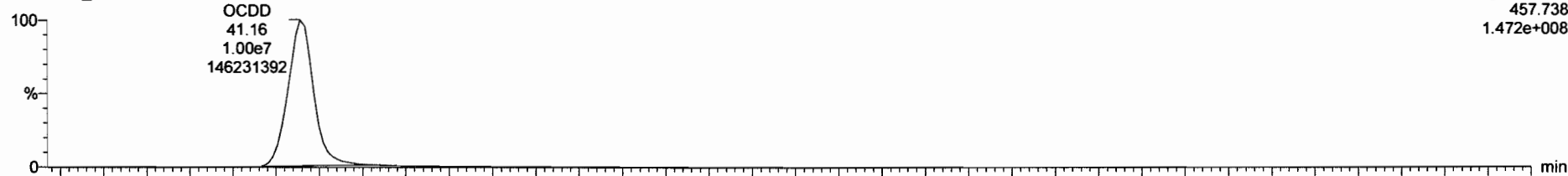
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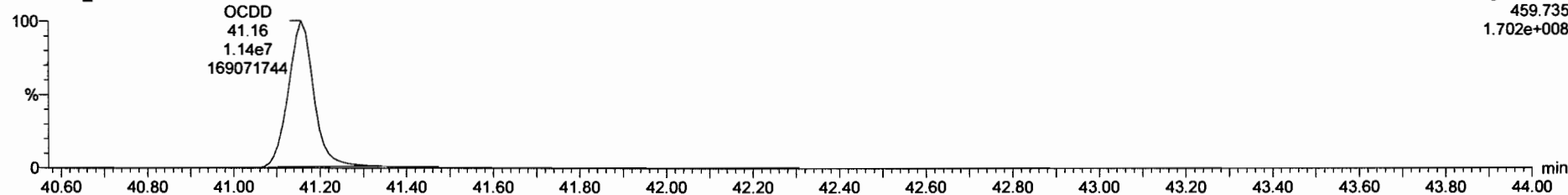
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200930R1\_9



200930R1\_9

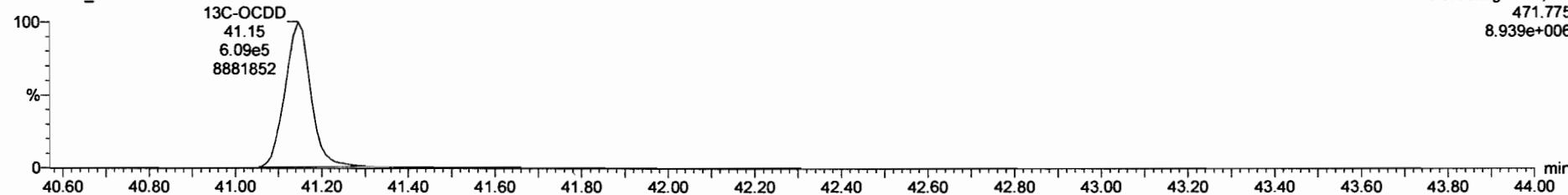


**13C-OCDD**

200930R1\_9



200930R1\_9

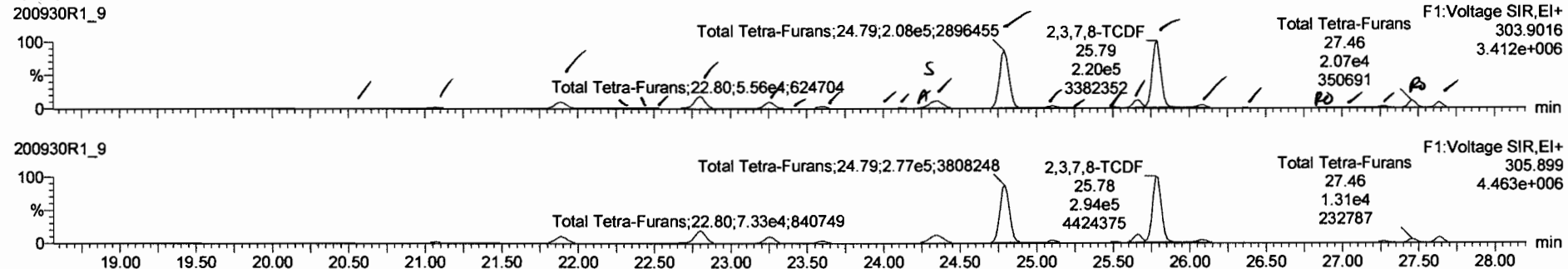


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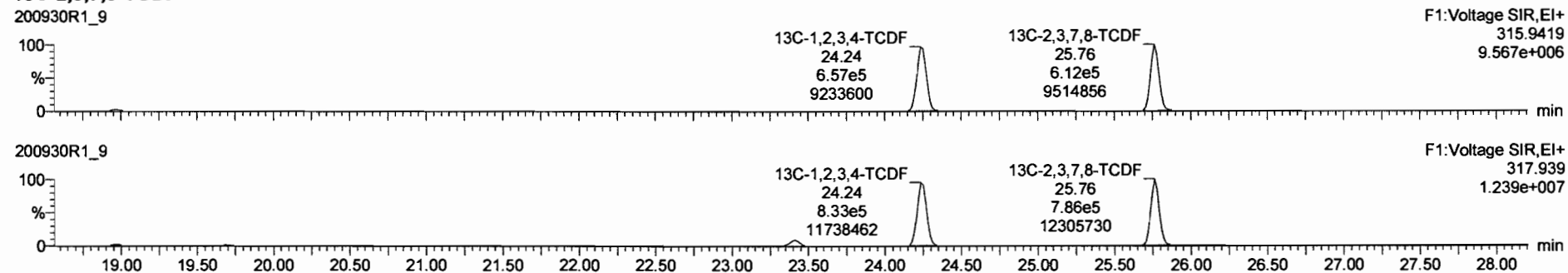
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Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_9, Date: 30-Sep-2020, Time: 16:01:05, ID: 2001995-01 PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

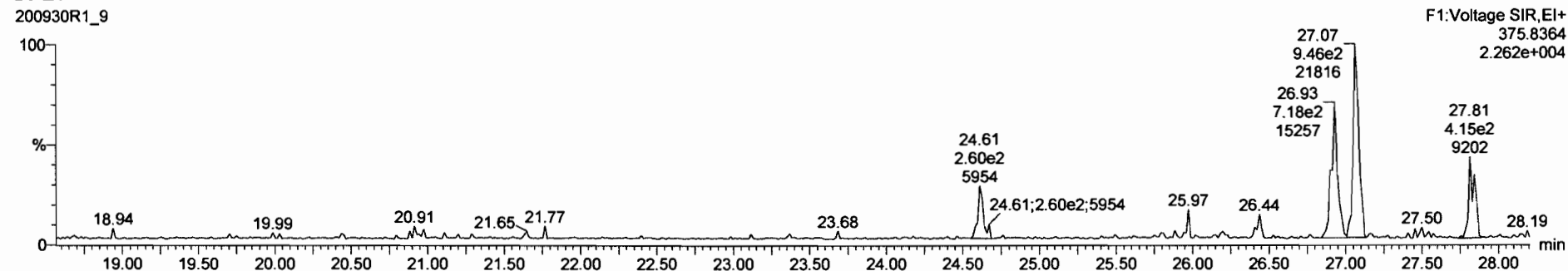
### 2,3,7,8-TCDF

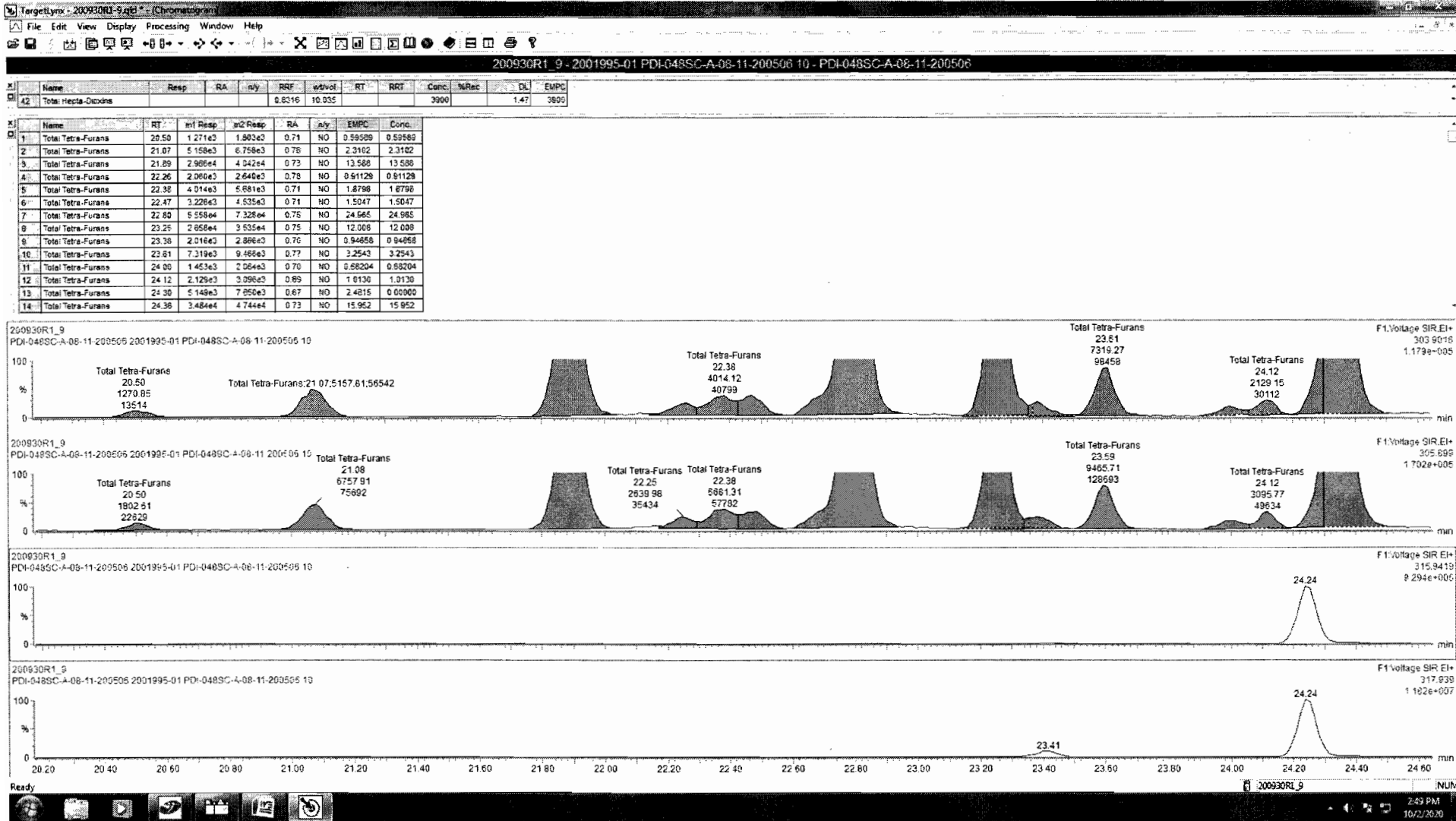


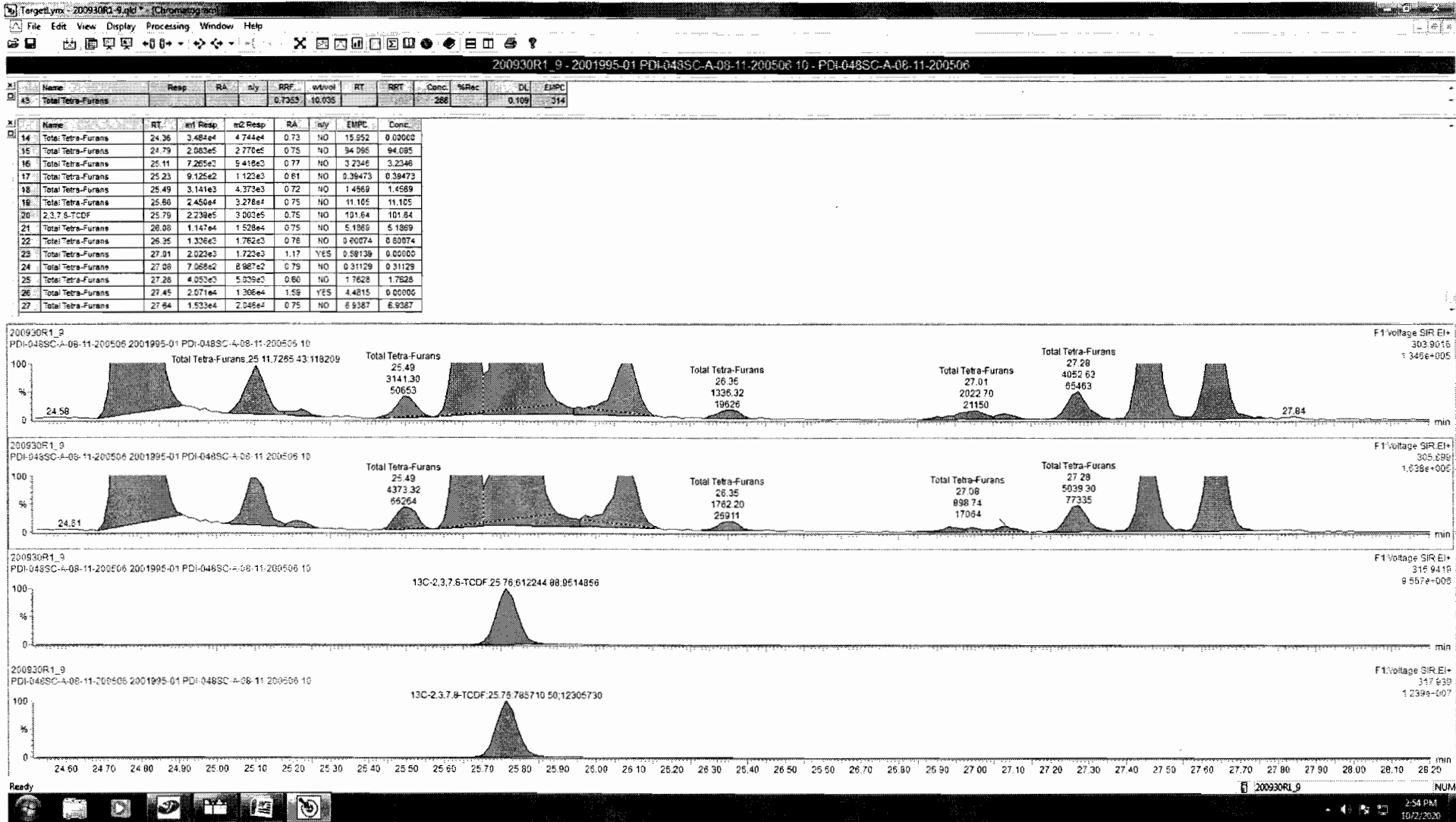
### 13C-2,3,7,8-TCDF



### DPE1









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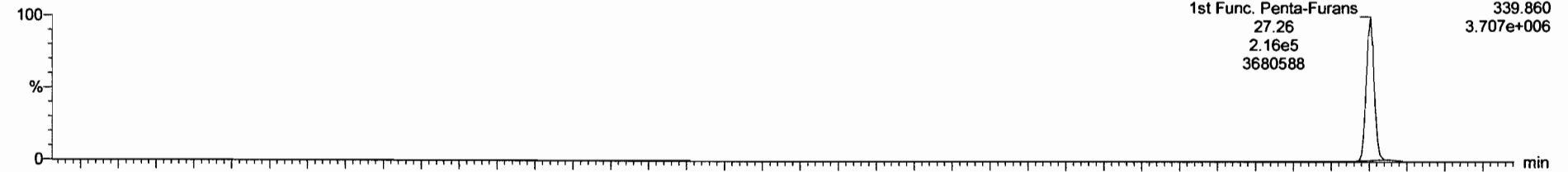
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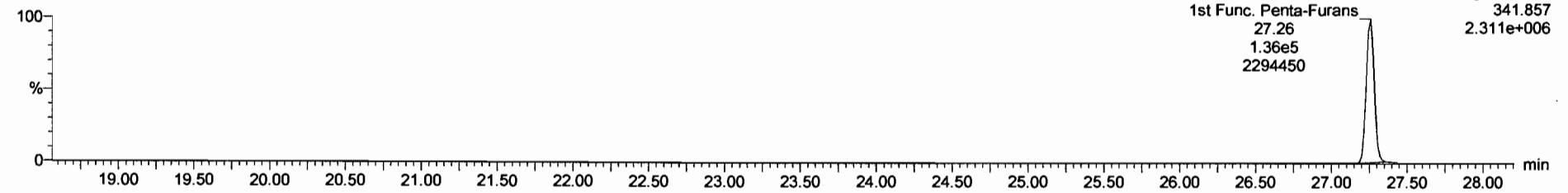
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1st Func. Penta-Furans

200930R1\_9

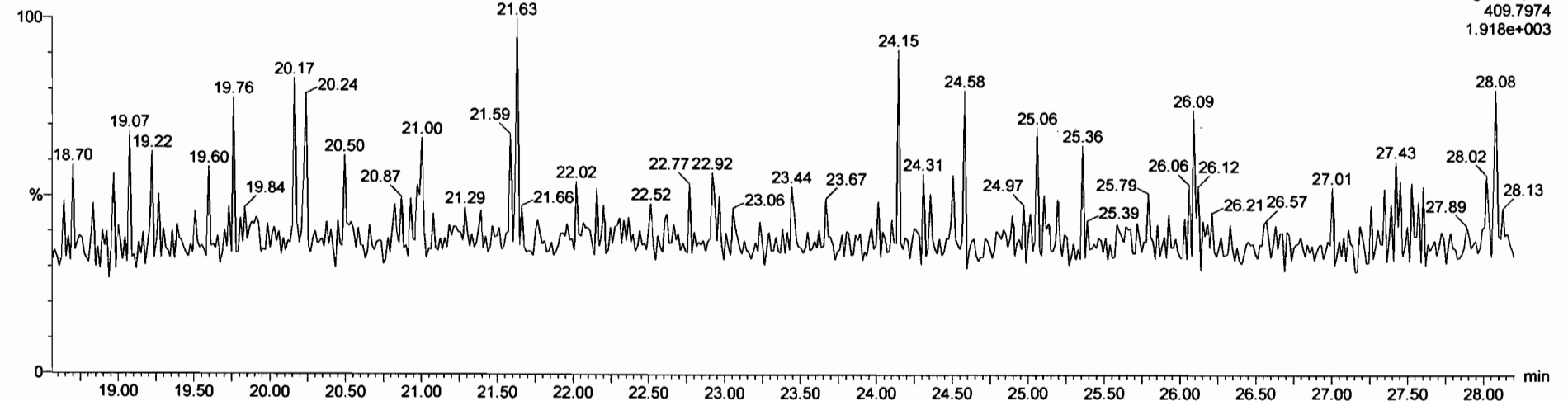


200930R1\_9



DPE6

200930R1\_9



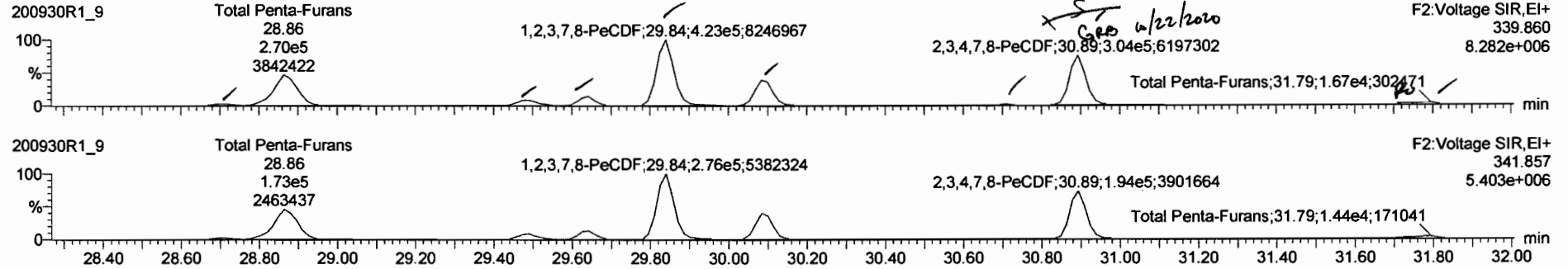
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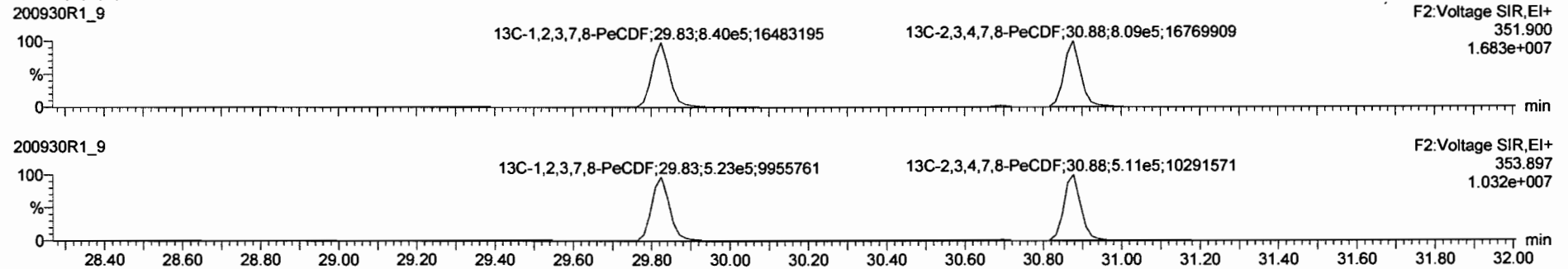
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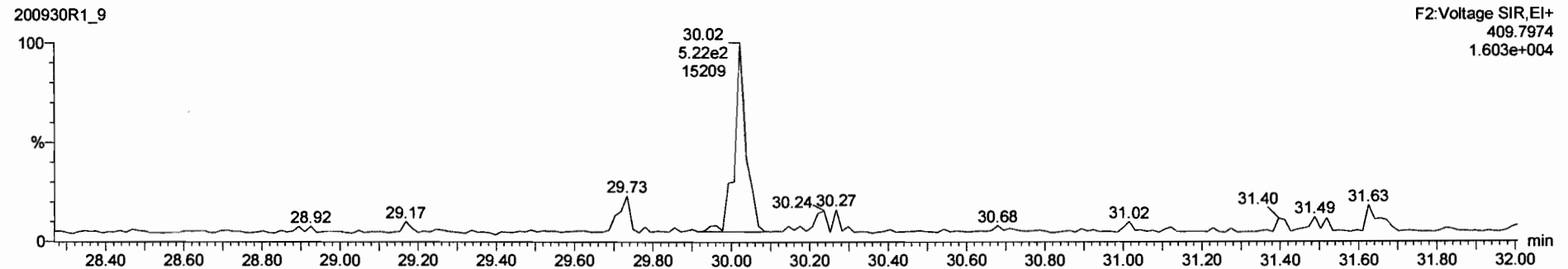
**1,2,3,7,8-PeCDF**



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



**DPE2**



200930R1\_9 - 2001995-01 PDI-048SC-A-08-11-200506 10 - PDI-048SC-A-08-11-200506

Name	Resp	RA	iny	RRF	wtVol	RT	RET	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	1.03e6	0.51	NO	1.0000	10.035	33.90	1.000	199	100	0.321
39	Total Tetra-Dioxins				1.0180	10.035			24.5		0.0512
40	Total Penta-Dioxins				0.9581	10.035			43.6		0.0817
41	Total Hexa-Dioxins				0.8879	10.035			577		0.363
42	Total Hepta-Dioxins				0.8316	10.035			3900		1.47
43	Total Tetra-Furans				0.7353	10.035			288		0.109
44	1 of Func. Penta-Furans				0.6386	10.035			55.8		0.0203
45	Total Penta-Furans				0.6386	10.035			325		0.143
46	Total Hexa-Furans				0.8699	10.035			380		0.192
47	Total Hepta-Furans				0.8908	10.035			578		0.382
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

200930R1\_9  
PDI-048SC-A-08-11-200506 2001995-01 PDI-048SC-A-08-11-200506 10

2,3,4,7,8-PeCDF:30.89;304036.66;6200072

F2:Voltage SIR:EI+  
339.860  
5.232e+006

Total Penta-Furans  
31.79  
13705.60  
303058

min

---

200930R1\_9  
PDI-048SC-A-08-11-200506 2001995-01 PDI-048SC-A-08-11-200506 10

2,3,4,7,8-PeCDF:30.89;194744.86;3904634

F2:Voltage SIR:EI+  
341.857  
3.927e+006

Total Penta-Furans  
31.79  
8786.82  
172512

min

---

200930R1\_9  
PDI-048SC-A-08-11-200506 2001995-01 PDI-048SC-A-08-11-200506 10

30.88

F2:Voltage SIR:EI+  
351.900  
1.583e+007

min

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200930R1\_9  
PDI-048SC-A-08-11-200506 2001995-01 PDI-048SC-A-08-11-200506 10

30.88

F2:Voltage SIR:EI+  
353.897  
1.032e+007

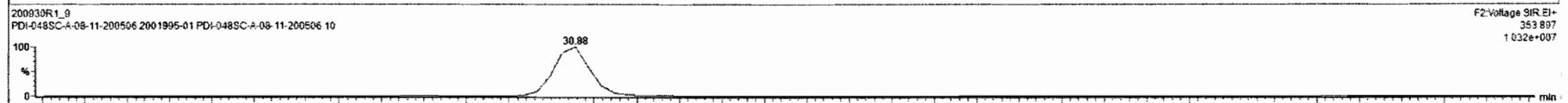
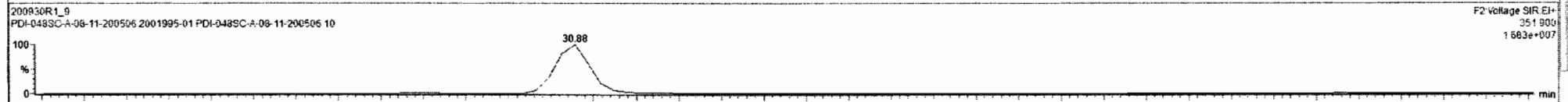
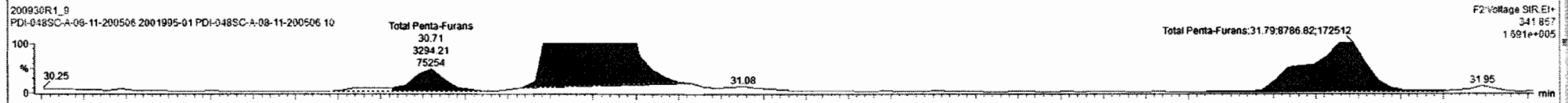
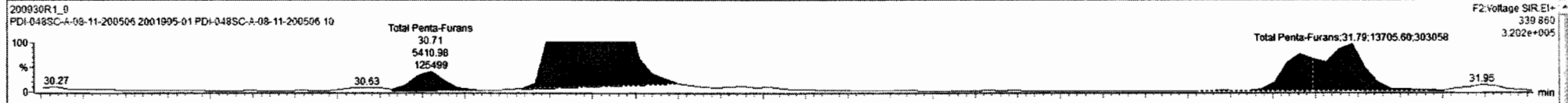
min

30.25 30.30 30.35 30.40 30.45 30.50 30.55 30.60 30.65 30.70 30.75 30.80 30.85 30.90 30.95 31.00 31.05 31.10 31.15 31.20 31.25 31.30 31.35 31.40 31.45 31.50 31.55 31.60 31.65 31.70 31.75 31.80 31.85 31.90 31.95 32.00 min

Custom Reporting: Select reports to generate

200930R1\_9 ICAP NUM 7:27 AM

Name	Resp	RA	n/y	RRF	wtAvr	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	1.03e6	0.51	NO	1.0000	10.035	33.90	1.900	199	100	0.321
39	Total Tetra-Dioxine				1.0160	10.035			24.5		0.0512 26.7
40	Total Penta-Dioxine				0.9561	10.035			43.8		0.0917 47.2
41	Total Hexa-Dioxins				0.8879	10.035			577		0.383 577
42	Total Hepta-Dioxans				0.8316	10.035			3900		1.47 3900
43	Total Tetra-Furans				0.7353	10.035			288		0.109 311
44	1st Func. Penta-Furans				0.9386	10.035			55.8		0.0203 55.8
46	Total Penta-Furans				0.8386	10.035			325		0.143 331
46	Total Hexa-Furans				0.8699	10.035			380		0.192 380
47	Total Hepta-Furans				0.8908	10.035			579		6.382 579
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

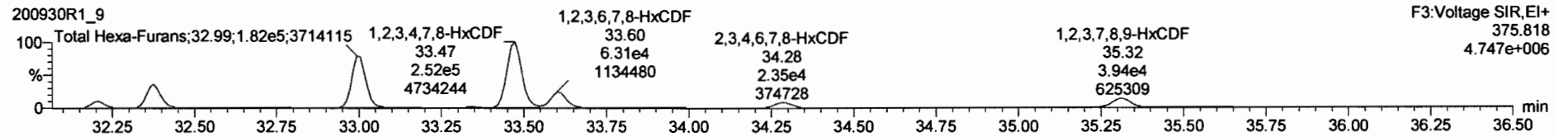
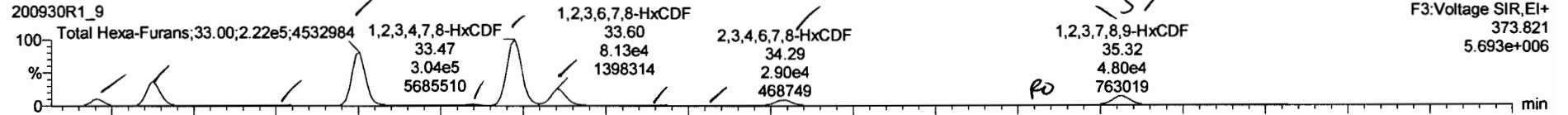


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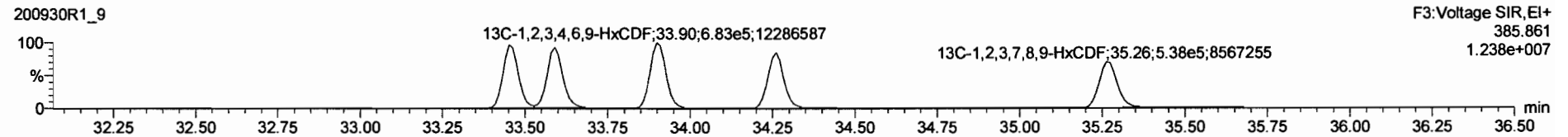
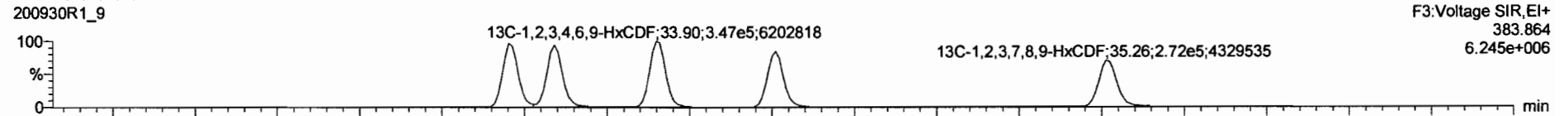
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Name: 200930R1\_9, Date: 30-Sep-2020, Time: 16:01:05, ID: 2001995-01 PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

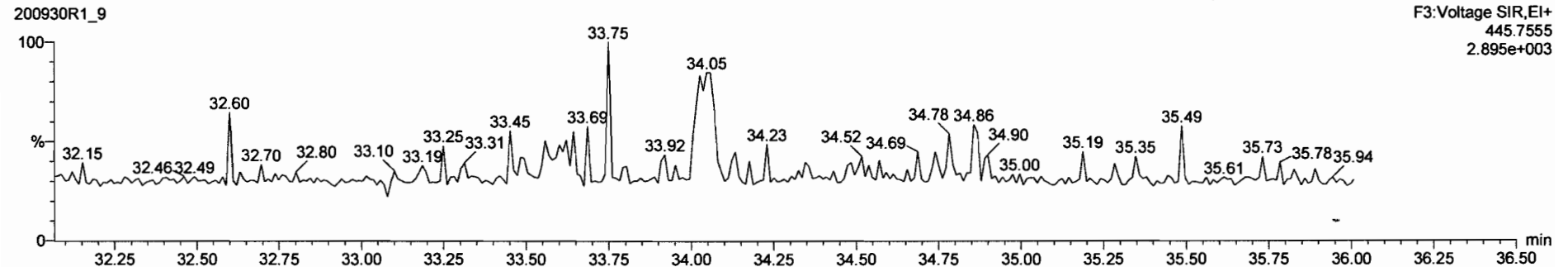
**1,2,3,4,7,8-HxCDF**

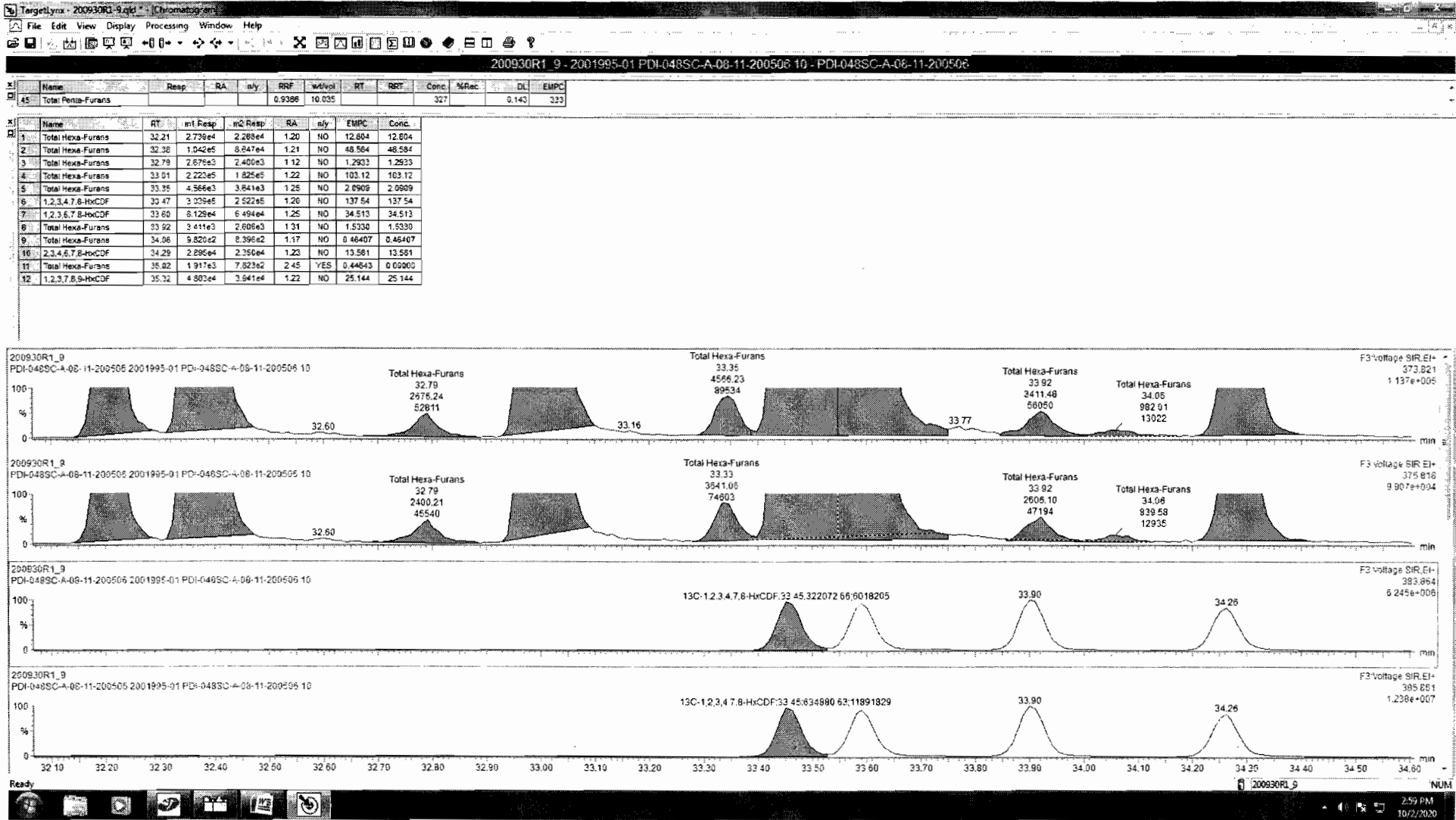


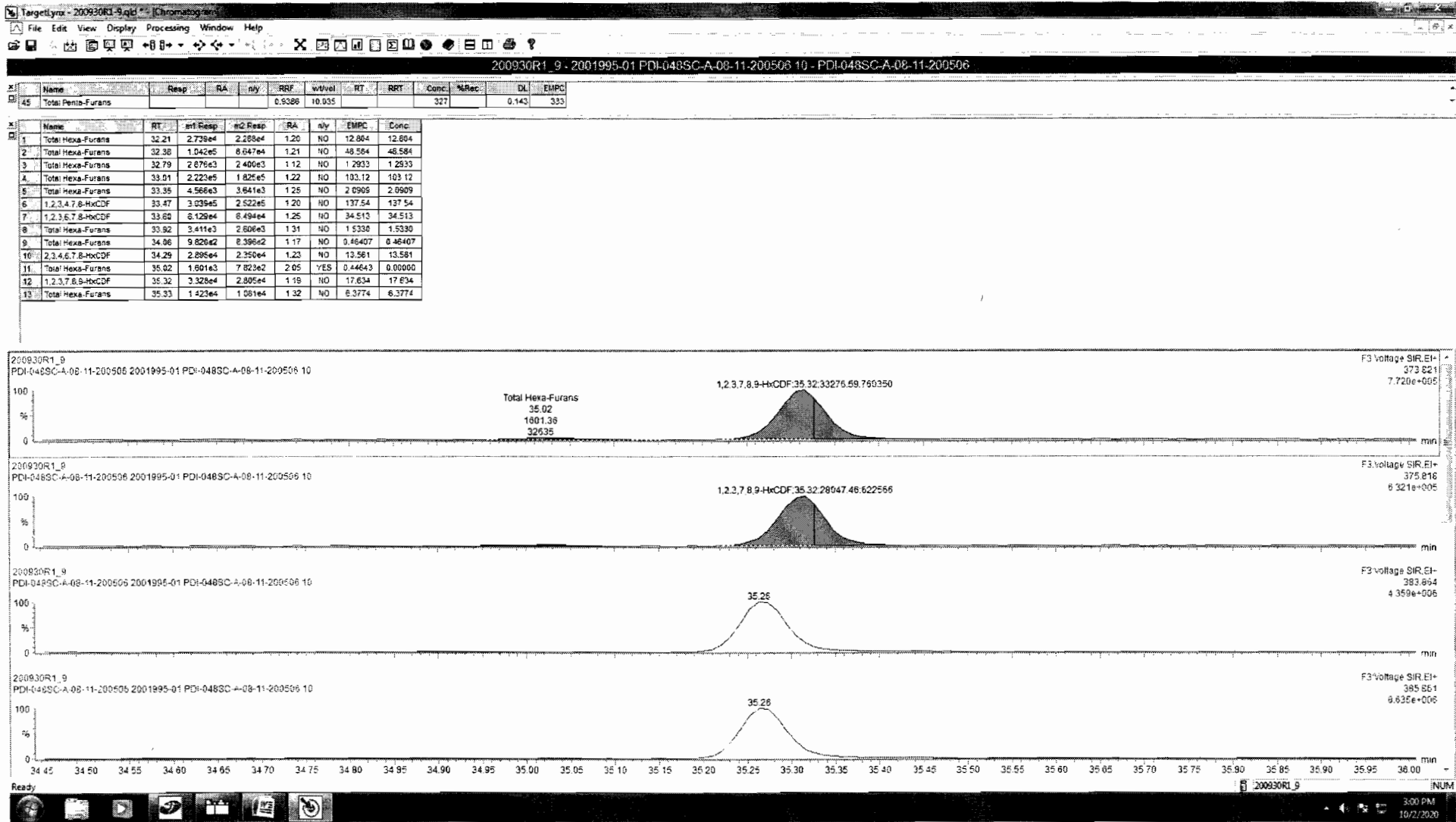
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



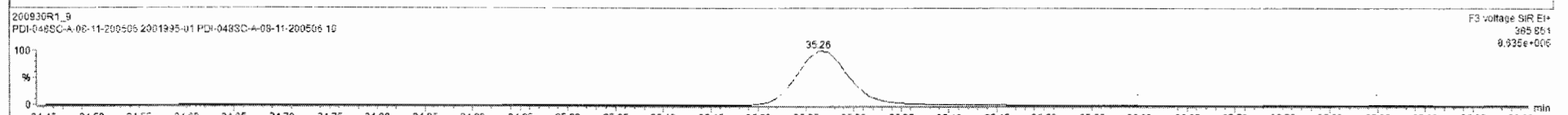
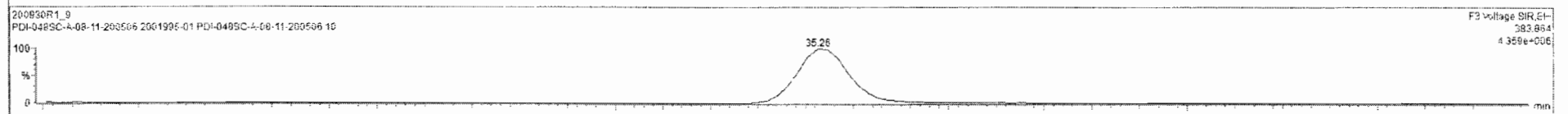
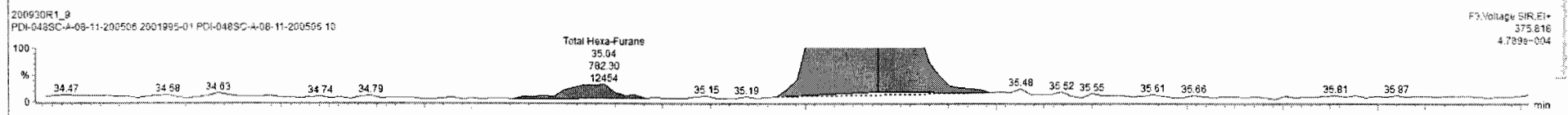
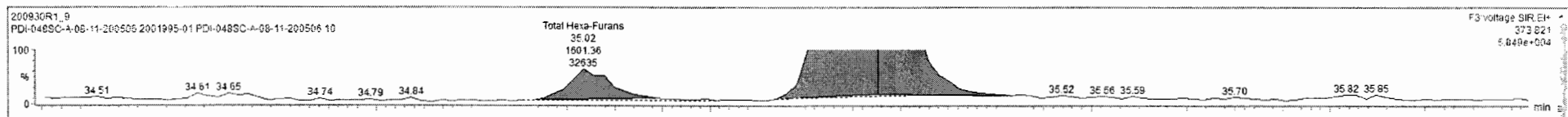




200930R1\_9 - 2001995-01 PDI-048SC-A-08-11-200506 10 - PDI-048SC-A-08-11-200506

Name	Resp	RA	n/y	RRF	wt/mol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.9386	10.035			327		0.143	333

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Hexa-Furans	32.21	2.738e4	2.288e4	1.20	NO	12.804	12.804
2	Total Hexa-Furans	32.30	1.042e5	8.047e4	1.21	NO	48.584	48.584
3	Total Hexa-Furans	32.79	2.078e3	2.400e3	1.12	NO	1.2933	1.2933
4	Total Hexa-Furans	33.01	2.223e5	1.825e5	1.22	NO	103.12	103.12
5	Total Hexa-Furans	33.35	4.566e3	3.641e3	1.25	NO	2.0909	2.0909
6	1,2,3,4,7,8-HxCDF	33.47	3.039e5	2.522e5	1.20	NO	137.54	137.54
7	1,2,3,5,7,8-HxCDF	33.60	8.129e4	6.494e4	1.25	NO	34.513	34.513
8	Total Hexa-Furans	33.92	3.411e3	2.805e3	1.31	NO	1.5330	1.5330
9	Total Hexa-Furans	34.06	9.820e2	8.395e2	1.17	NO	0.46407	0.46407
10	2,3,4,5,7,8-HxCDF	34.25	2.895e4	2.350e4	1.23	NO	13.581	13.581
11	Total Hexa-Furans	35.02	1.601e3	7.823e2	2.05	YES	0.44543	0.00000
12	1,2,3,7,8,9-HxCDF	35.32	3.328e4	2.805e4	1.19	NO	17.634	17.634
13	Total Hexa-Furans	35.33	1.420e4	1.061e4	1.32	NO	6.3774	6.3774



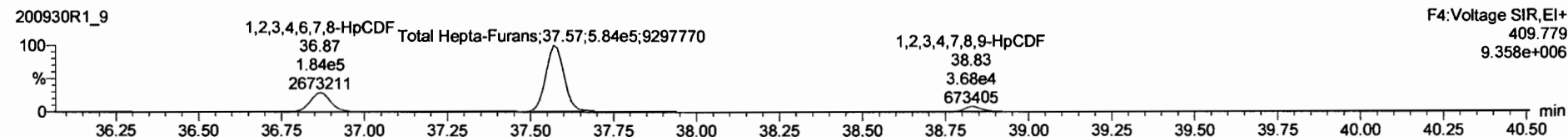
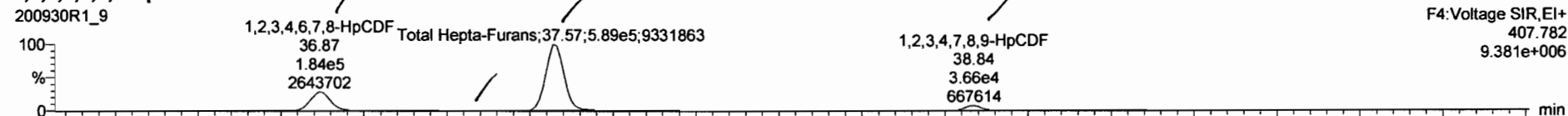


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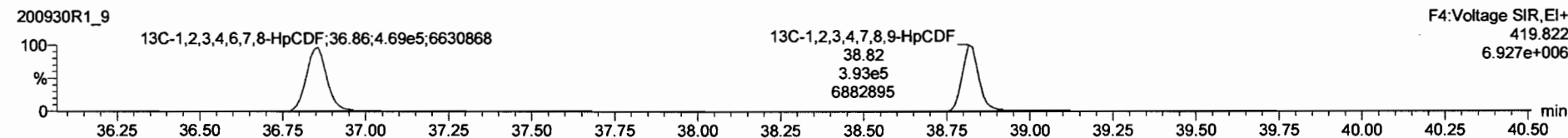
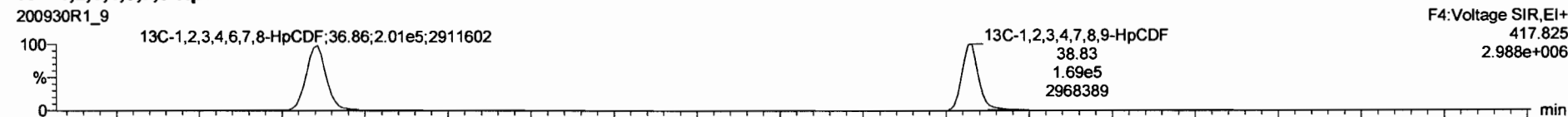
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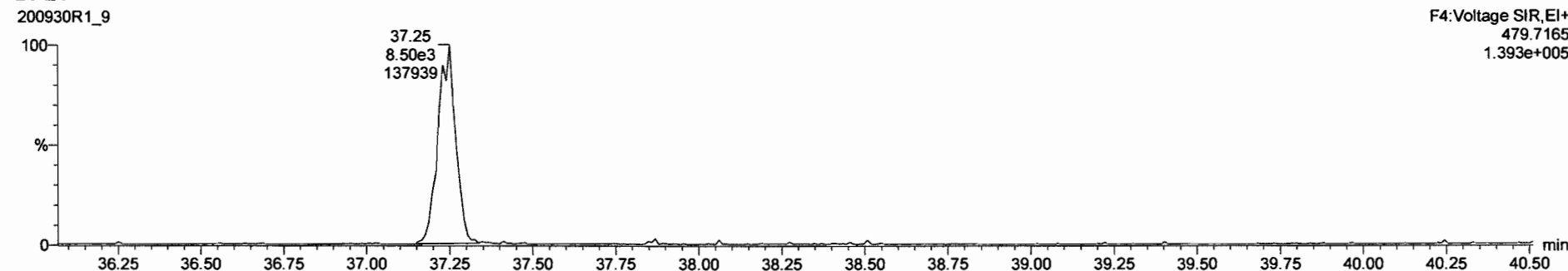
### 1,2,3,4,6,7,8-HpCDF

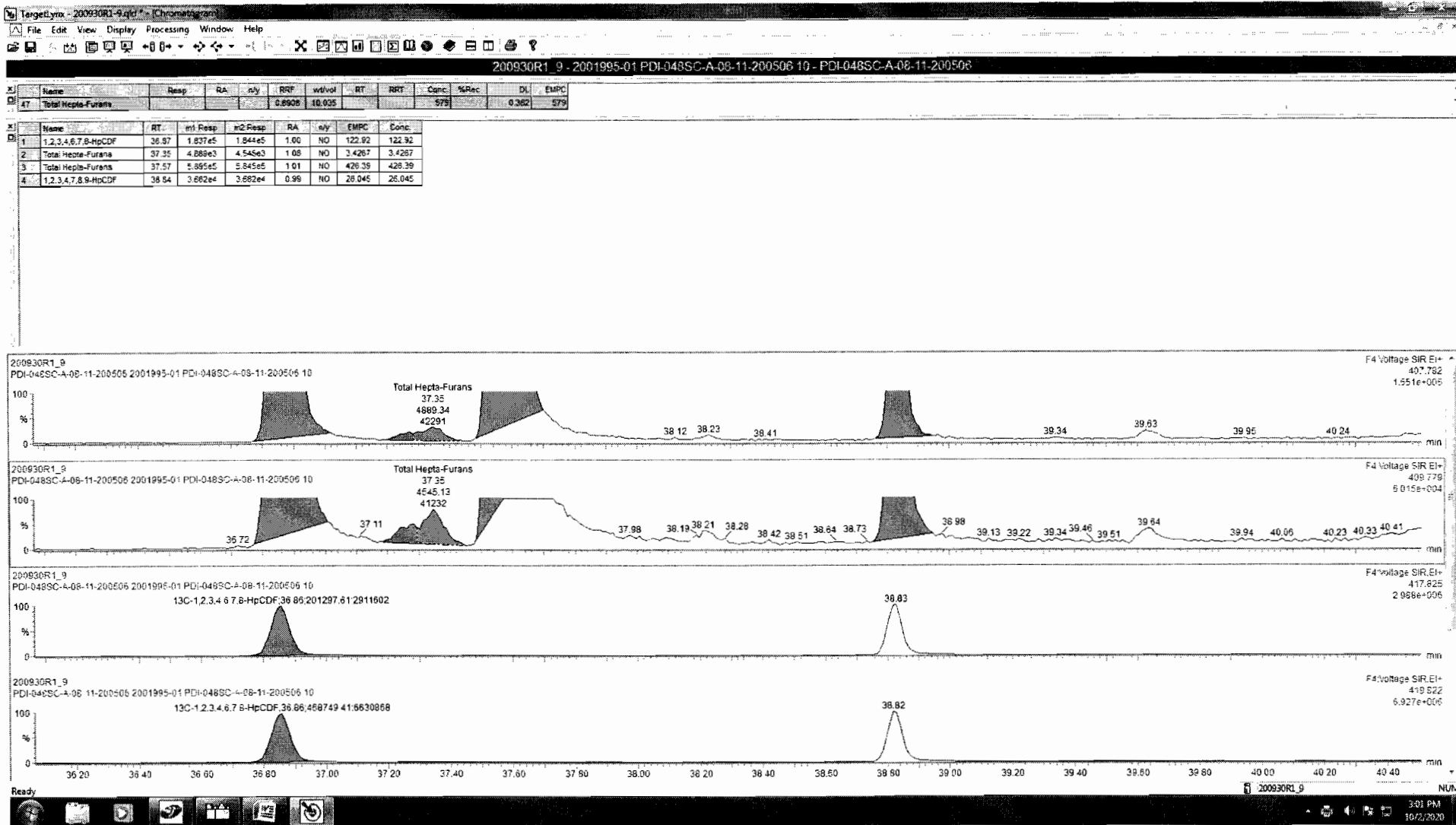


### 13C-1,2,3,4,6,7,8-HpCDF



### DPE4





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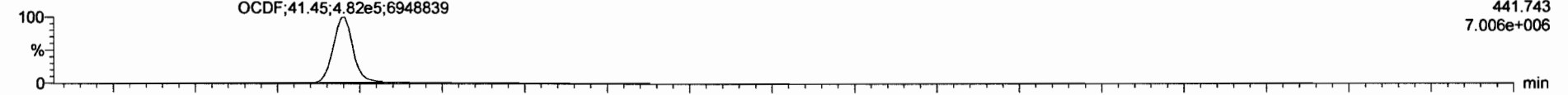
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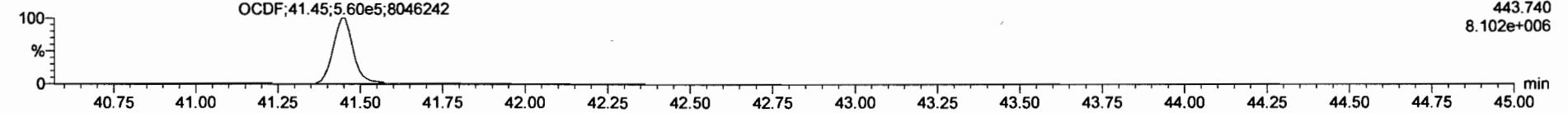
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**OCDF**

200930R1\_9

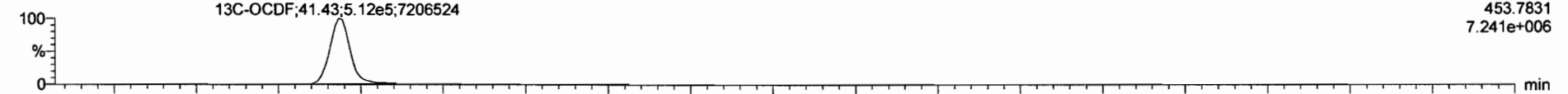


200930R1\_9

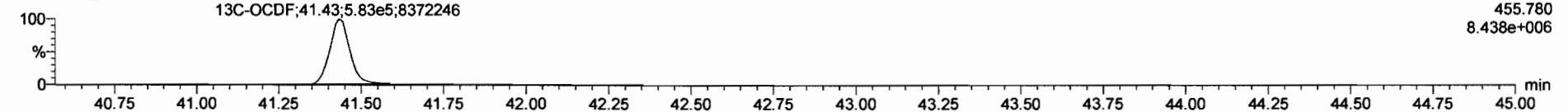


**13C-OCDF**

200930R1\_9

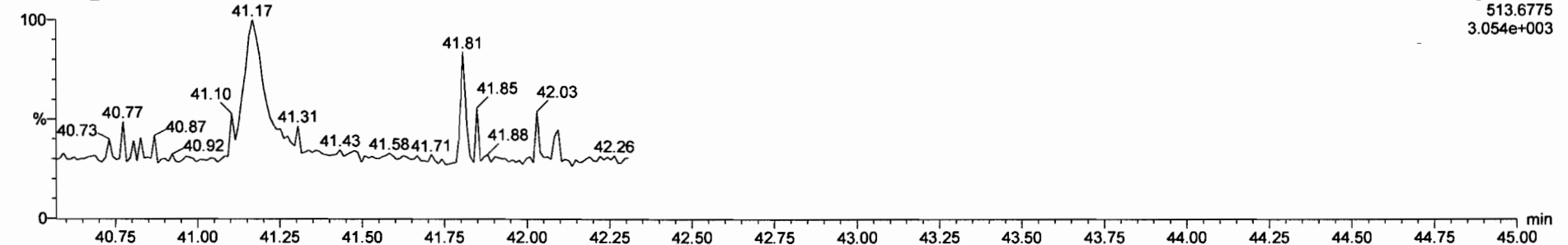


200930R1\_9



**DPE5**

200930R1\_9



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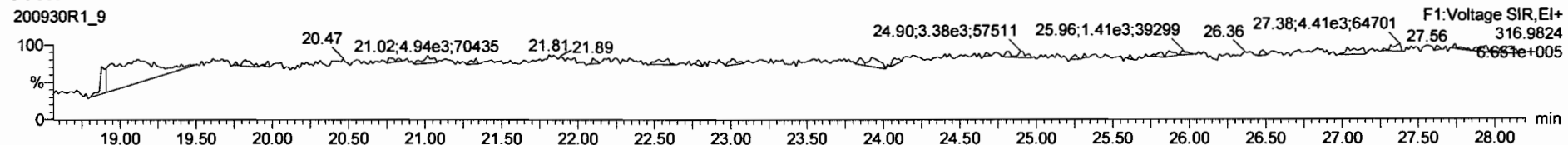
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Name: 200930R1\_9, Date: 30-Sep-2020, Time: 16:01:05, ID: 2001995-01 PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

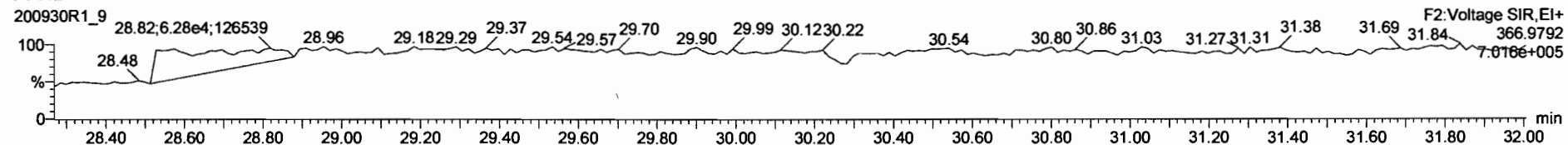
PFK1

200930R1\_9



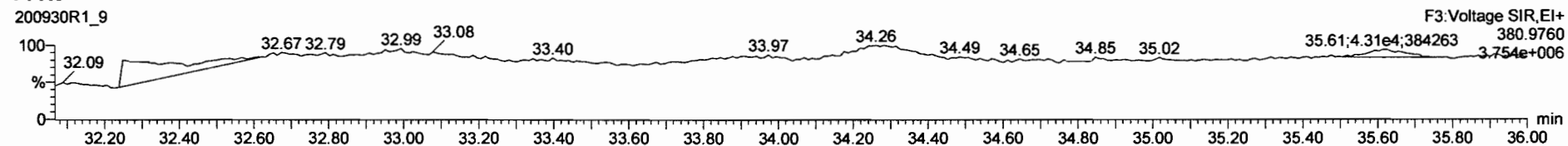
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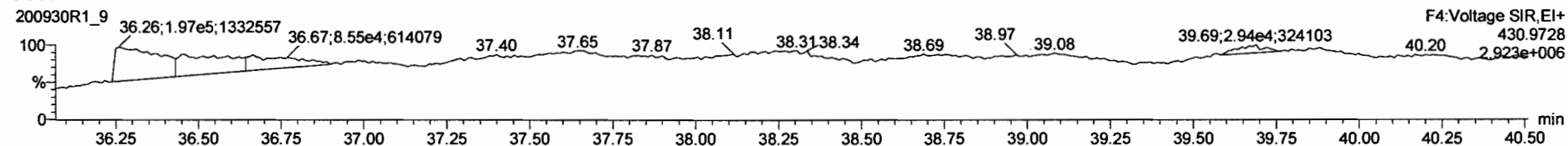
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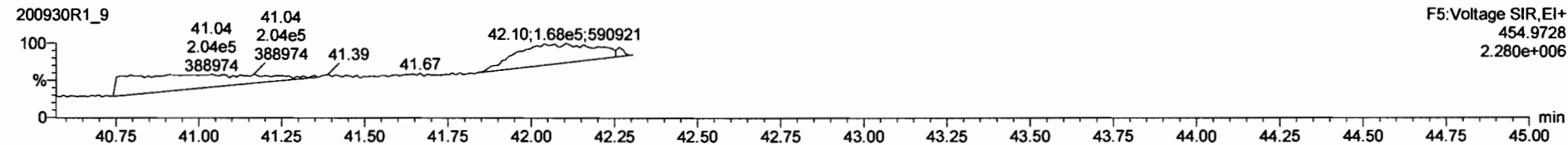
PFK4

200930R1\_9



PFK5

200930R1\_9



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*ML  
10/19/20*

Name: 201002R2\_10, Date: 03-Oct-2020, Time: 03:48:39, ID: 2001995-01@10X PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	4.23e5	0.87	NO	0.862	10.035	41.200	41.21	1.000	1.000	10204		15.5	10200
2	24 13C-OCDD	1.92e4	0.89	NO	0.563	10.035	41.139	41.20	1.213	1.215	278.47	69.9	4.25	
3	35 37Cl-2,3,7,8-TCDD	1.11e4			1.18	10.035	26.451	26.43	1.030	1.029	72.020	90.3	0.504	
4	36 13C-1,2,3,4-TCDD	2.62e4	0.80	NO	1.00	10.035	25.740	25.68	1.000	1.000	199.30	100	2.11	
5	37 13C-1,2,3,4-TCDF	4.82e4	0.76	NO	1.00	10.035	24.310	24.22	1.000	1.000	199.30	100	2.41	
6	38 13C-1,2,3,4,6,9-HxCDF	2.44e4	0.50	NO	1.00	10.035	33.920	33.91	1.000	1.000	199.30	100	2.36	

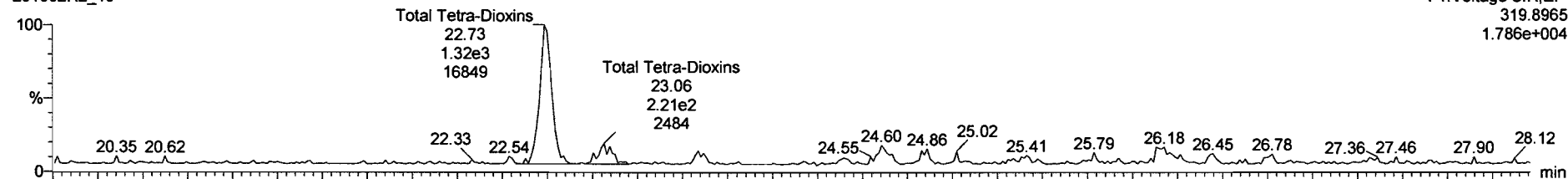
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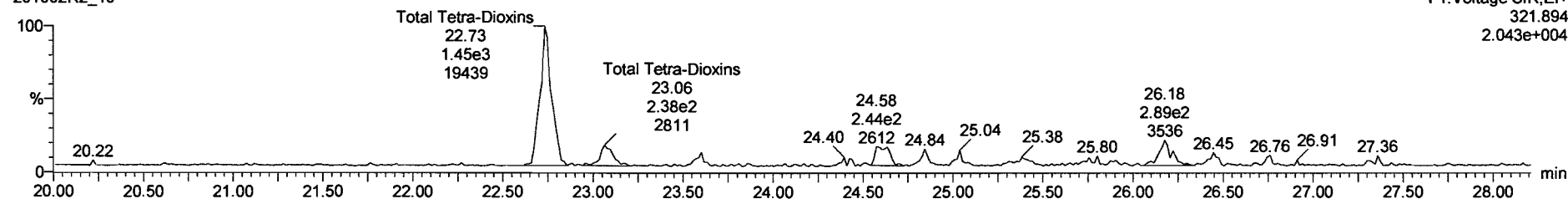
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**2,3,7,8-TCDD**

201002R2\_10



201002R2\_10

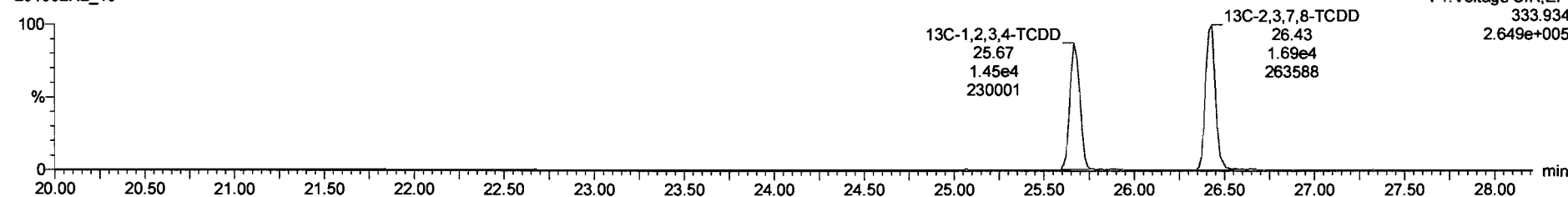


**13C-2,3,7,8-TCDD**

201002R2\_10



201002R2\_10



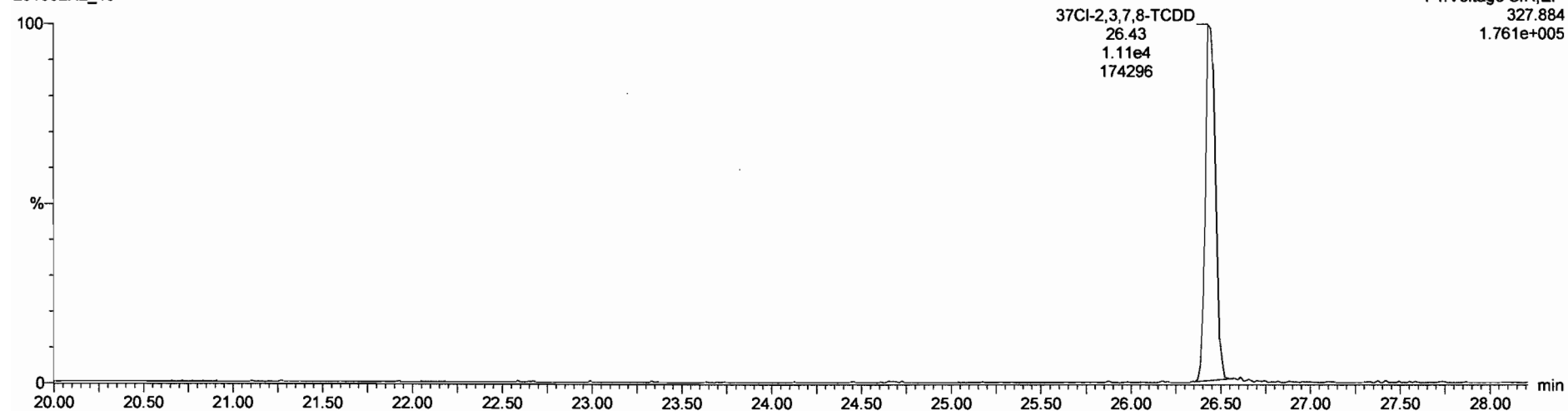
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Last Altered: Saturday, October 03, 2020 11:40:38 AM Pacific Daylight Time  
Printed: Saturday, October 03, 2020 11:44:15 AM Pacific Daylight Time

Name: 201002R2\_10, Date: 03-Oct-2020, Time: 03:48:39, ID: 2001995-01@10X PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

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

201002R2\_10

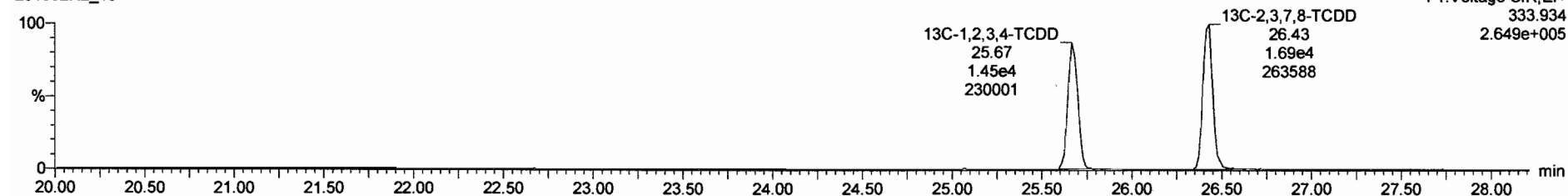


**13C-1,2,3,4-TCDD**

201002R2\_10



201002R2\_10



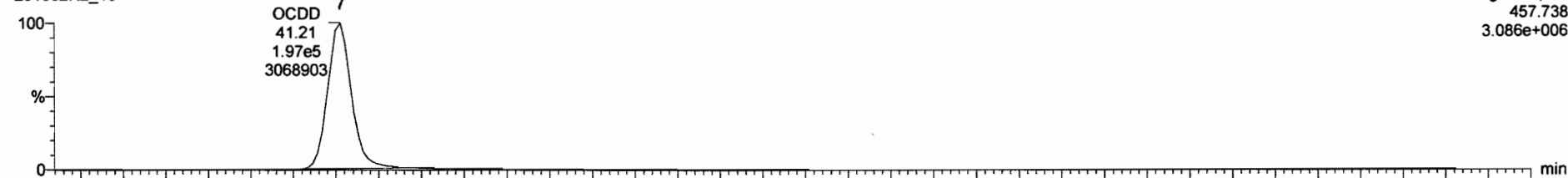
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Last Altered: Saturday, October 03, 2020 11:40:38 AM Pacific Daylight Time  
Printed: Saturday, October 03, 2020 11:44:15 AM Pacific Daylight Time

Name: 201002R2\_10, Date: 03-Oct-2020, Time: 03:48:39, ID: 2001995-01@10X PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

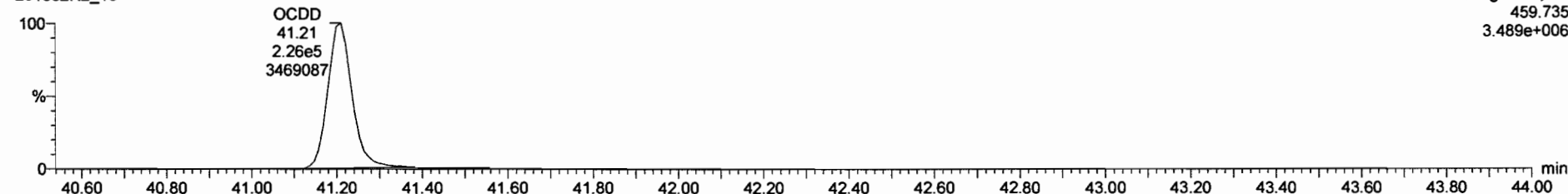
**OCDD**

201002R2\_10



F5:Voltage SIR,EI+  
457.738  
3.086e+006

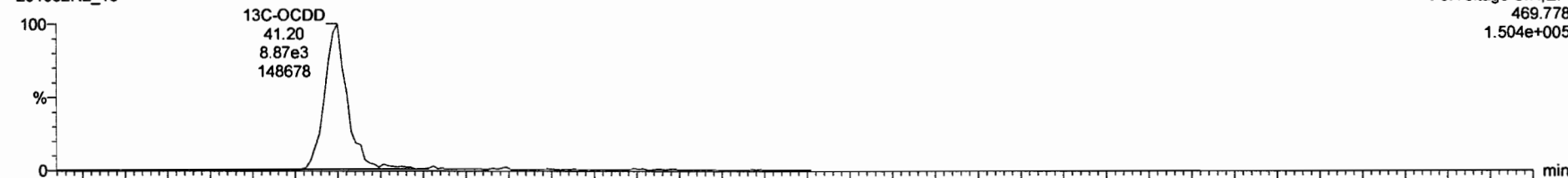
201002R2\_10



F5:Voltage SIR,EI+  
459.735  
3.489e+006

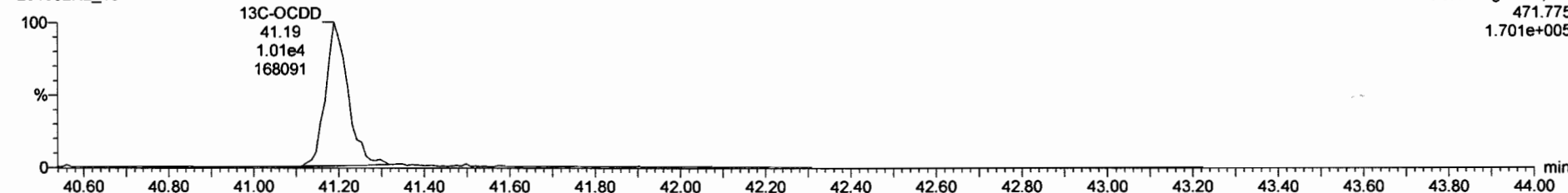
**13C-OCDD**

201002R2\_10



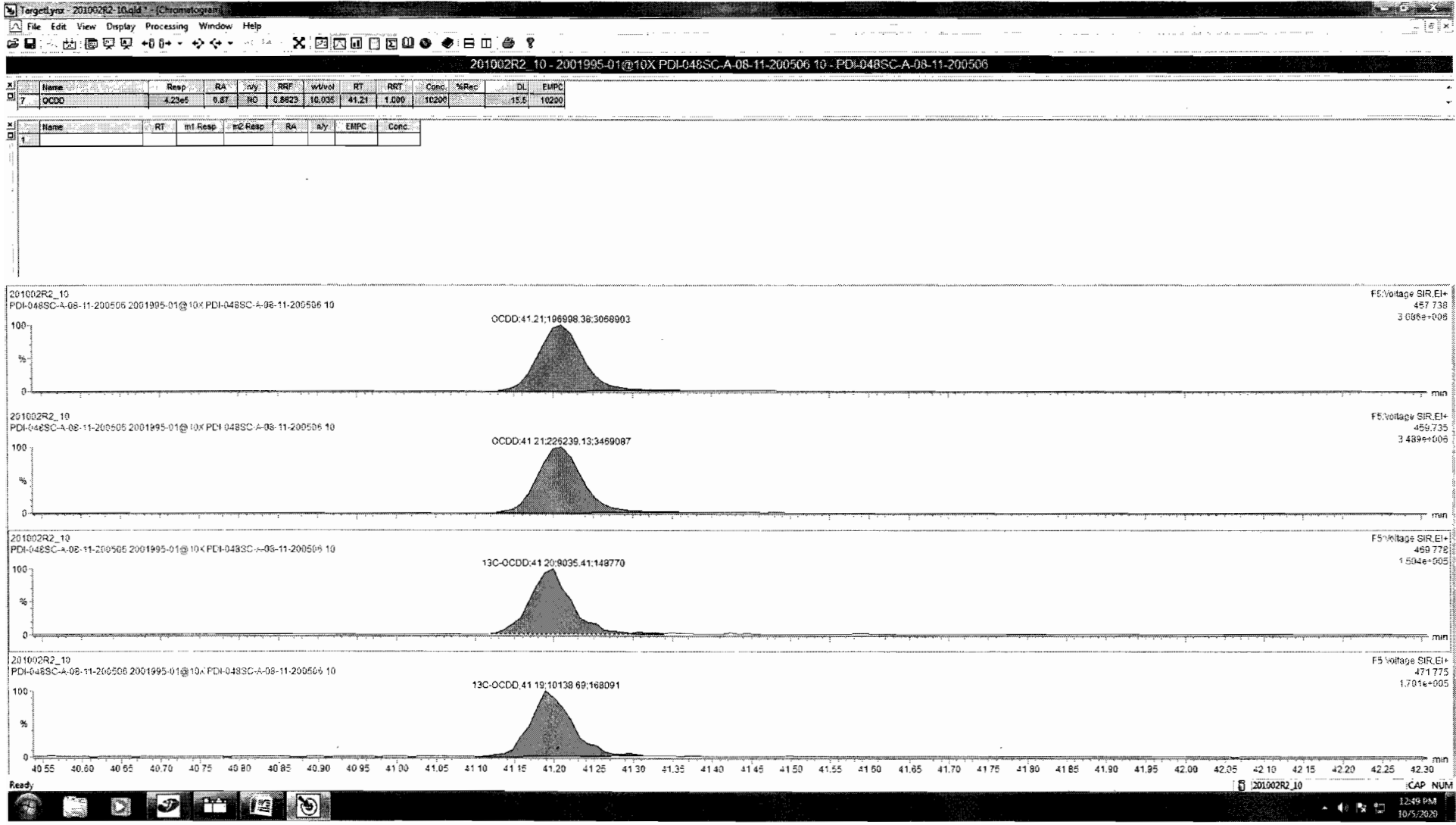
F5:Voltage SIR,EI+  
469.778  
1.504e+005

201002R2\_10



F5:Voltage SIR,EI+  
471.775  
1.701e+005





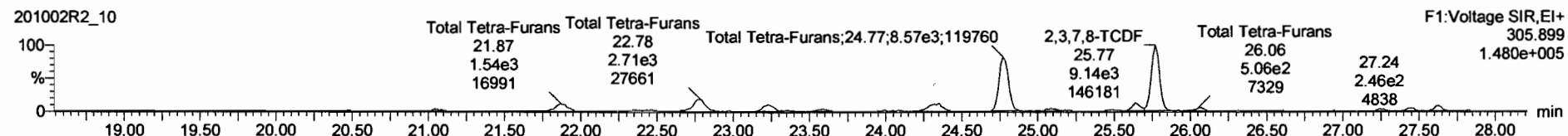
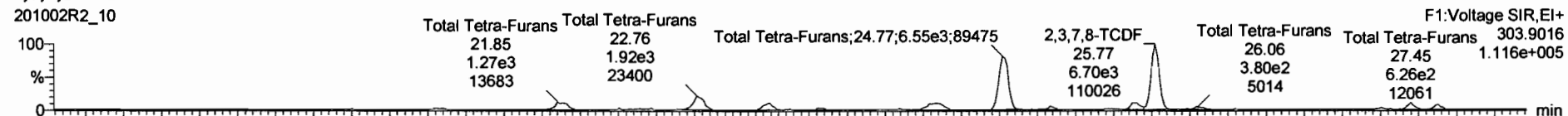
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Last Altered: Saturday, October 03, 2020 11:40:38 AM Pacific Daylight Time

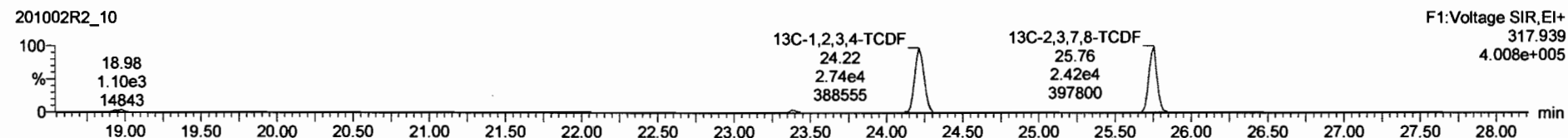
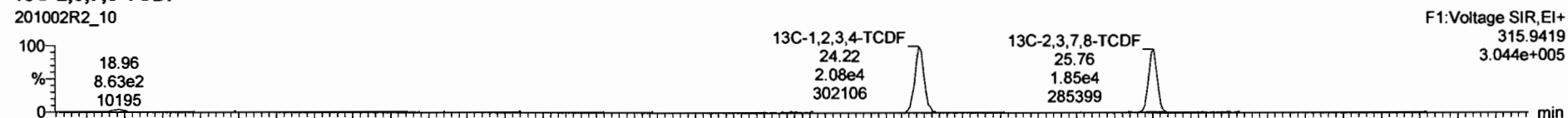
Printed: Saturday, October 03, 2020 11:44:15 AM Pacific Daylight Time

Name: 201002R2\_10, Date: 03-Oct-2020, Time: 03:48:39, ID: 2001995-01@10X PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

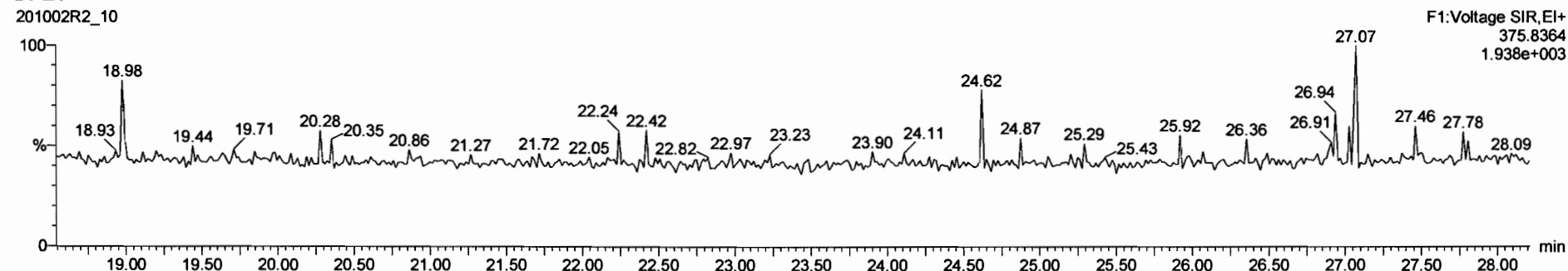
**2,3,7,8-TCDF**



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



**DPE1**



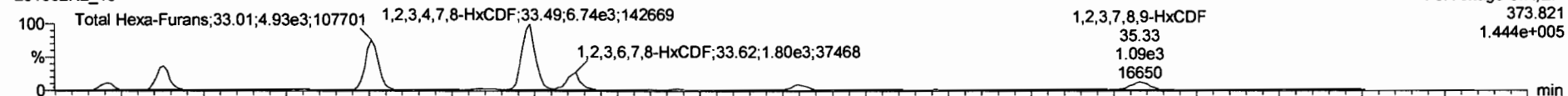
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Last Altered: Saturday, October 03, 2020 11:40:38 AM Pacific Daylight Time  
Printed: Saturday, October 03, 2020 11:44:15 AM Pacific Daylight Time

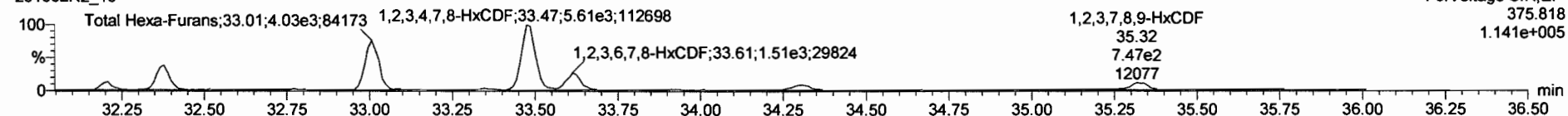
Name: 201002R2\_10, Date: 03-Oct-2020, Time: 03:48:39, ID: 2001995-01@10X PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

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

201002R2\_10

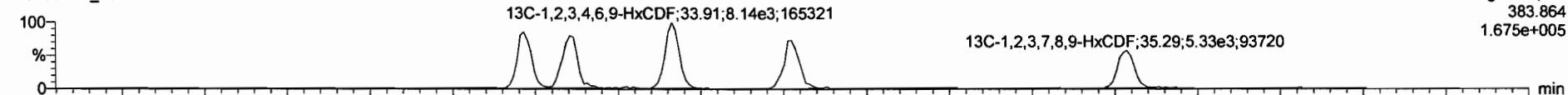


201002R2\_10

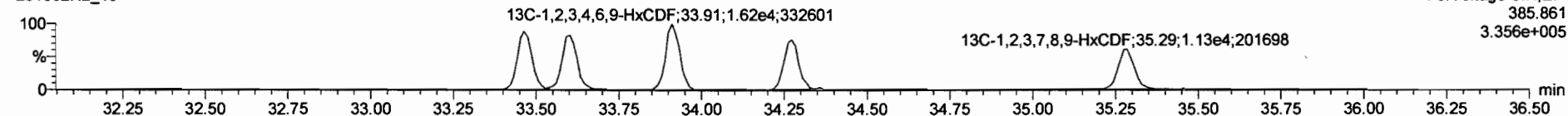


**13C-1,2,3,4,7,8-HxCDF**

201002R2\_10

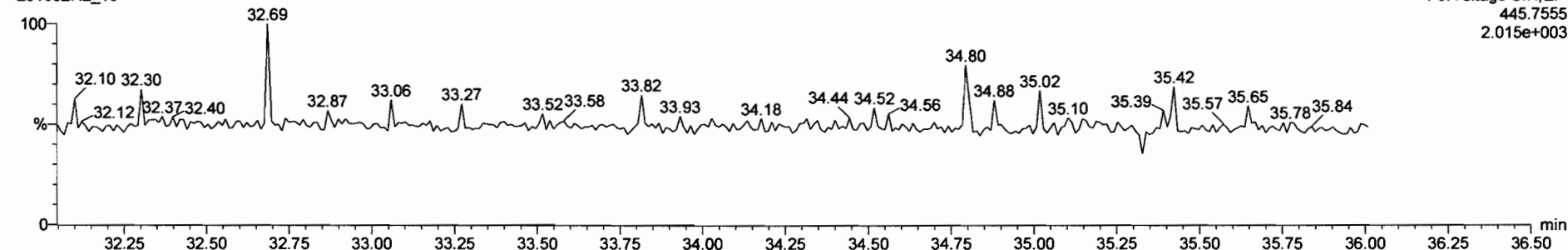


201002R2\_10



**DPE3**

201002R2\_10



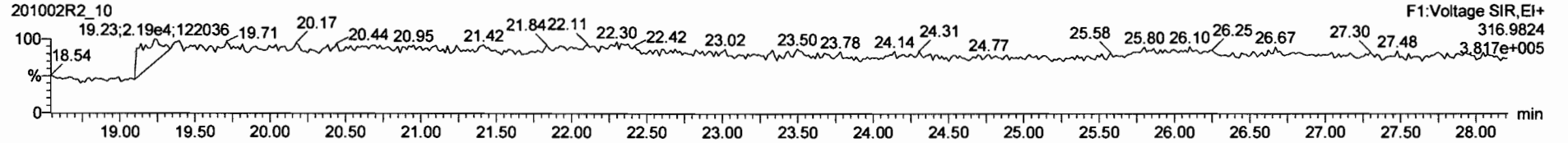
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Last Altered: Saturday, October 03, 2020 11:40:38 AM Pacific Daylight Time

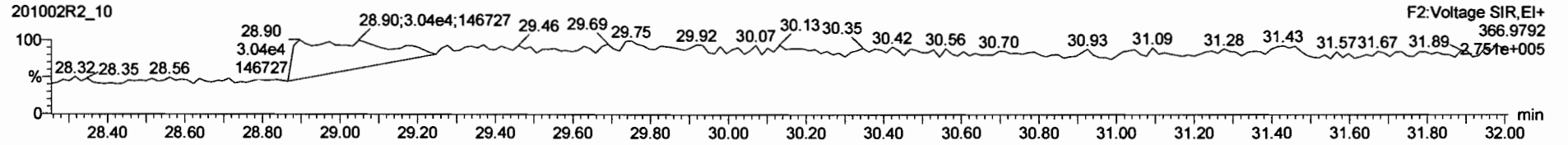
Printed: Saturday, October 03, 2020 11:44:15 AM Pacific Daylight Time

Name: 201002R2\_10, Date: 03-Oct-2020, Time: 03:48:39, ID: 2001995-01@10X PDI-048SC-A-08-11-200506 10, Description: PDI-048SC-A-08-11-200506

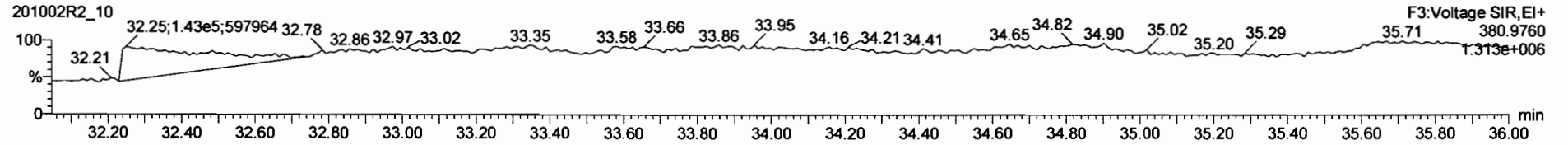
PFK1



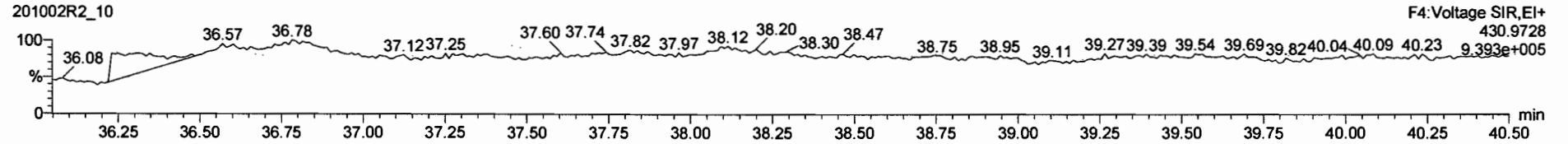
PFK2



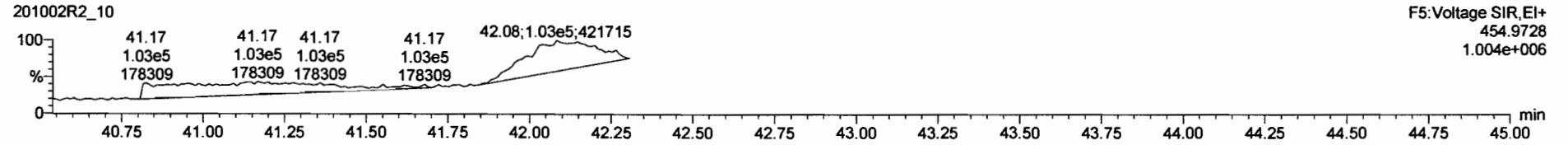
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200930R1\200930R1-10B.qld

Last Altered: Thursday, October 22, 2020 07:20:08 Pacific Daylight Time  
Printed: Thursday, October 22, 2020 07:20:44 Pacific Daylight Time

GRB 10/22/2020

C7 10/22/2020

Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_10, Date: 30-Sep-2020, Time: 16:44:34, ID: 2001995-02 PDI-068SC-A-07-08-200430 10, Description: PDI-068SC-A-07-08-200430

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.49e3	0.49	YES	1.02	10.016	26.463	26.46	1.001	1.001	0.37838		0.0445	0.285
2	2 1,2,3,7,8-PeCDD	6.25e3	0.55	NO	0.956	10.016	31.085	31.08	1.001	1.001	1.1957		0.0721	1.20
3	3 1,2,3,4,7,8-HxCDD	1.21e3	1.18	NO	1.00	10.016	34.369	34.37	1.000	1.000	0.31307		0.0995	0.313
4	4 1,2,3,6,7,8-HxCDD	5.43e3	1.18	NO	0.888	10.016	34.487	34.50	1.000	1.000	1.4314		0.107	1.43
5	5 1,2,3,7,8,9-HxCDD	2.85e3	1.21	NO	0.909	10.016	34.764	34.76	1.000	1.000	0.77259		0.107	0.773
6	6 1,2,3,4,6,7,8-HpCDD	3.59e4	0.98	NO	0.832	10.016	38.201	38.21	1.000	1.001	16.764		0.356	16.8
7	7 OCDD	1.25e5	0.86	NO	0.862	10.016	41.137	41.15	1.000	1.000	286.95		3.43	287
8	8 2,3,7,8-TCDF	4.01e3	0.72	NO	0.735	10.016	25.770	25.77	1.000	1.001	0.68718		0.0892	0.687
9	9 1,2,3,7,8-PeCDF	2.91e3	1.63	NO	0.939	10.016	29.864	29.86	1.001	1.001	0.41362		0.0961	0.414
10	10 2,3,4,7,8-PeCDF	4.69e4	1.55	NO	1.05	10.016	30.896	30.90	1.001	1.001	6.2502		0.0981	6.25
11	11 1,2,3,4,7,8-HxCDF	7.38e3	1.20	NO	0.842	10.016	33.454	33.47	1.000	1.000	1.7890		0.0820	1.79
12	12 1,2,3,6,7,8-HxCDF	6.06e3	1.21	NO	0.894	10.016	33.592	33.60	1.000	1.001	1.4086		0.0798	1.41
13	13 2,3,4,6,7,8-HxCDF	1.08e4	1.23	NO	0.870	10.016	34.274	34.27	1.001	1.001	2.9984		0.0945	3.00
14	14 1,2,3,7,8,9-HxCDF	1.42e3	1.07	NO	0.855	10.016	35.282	35.30	1.001	1.001	0.42129		0.116	0.421
15	15 1,2,3,4,6,7,8-HpCDF	1.21e4	0.99	NO	0.891	10.016	36.874	36.85	1.001	1.000	4.7031		0.160	4.70
16	16 1,2,3,4,7,8,9-HpCDF	1.31e3	0.93	NO	1.00	10.016	38.808	38.81	1.000	1.000	0.56968		0.143	0.570
17	17 OCDF	2.68e3	0.89	NO	0.784	10.016	41.435	41.44	1.000	1.000	3.1702		0.547	3.17
18	18 13C-2,3,7,8-TCDD	1.29e6	0.77	NO	1.15	10.016	26.420	26.43	1.029	1.029	174.11	87.2	0.100	
19	19 13C-1,2,3,7,8-PeCDD	1.09e6	0.63	NO	0.887	10.016	31.012	31.06	1.207	1.209	191.03	95.7	0.224	
20	20 13C-1,2,3,4,7,8-HxCDD	7.70e5	1.28	NO	0.801	10.016	34.362	34.36	1.014	1.014	152.20	76.2	0.271	
21	21 13C-1,2,3,6,7,8-HxCDD	8.53e5	1.28	NO	0.892	10.016	34.491	34.49	1.018	1.018	151.52	75.9	0.244	
22	22 13C-1,2,3,7,8,9-HxCDD	8.11e5	1.25	NO	0.882	10.016	34.752	34.75	1.025	1.025	145.59	72.9	0.246	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.14e5	1.07	NO	0.719	10.016	38.185	38.19	1.127	1.127	113.23	56.7	0.195	
24	24 13C-OCDD	2.02e5	0.89	NO	0.563	10.016	41.113	41.14	1.213	1.214	56.843	14.2	0.245	
25	25 13C-2,3,7,8-TCDF	1.58e6	0.77	NO	1.01	10.016	25.763	25.76	1.003	1.003	170.24	85.3	0.180	
26	26 13C-1,2,3,7,8-PeCDF	1.49e6	1.58	NO	0.814	10.016	29.772	29.84	1.159	1.162	199.01	99.7	0.403	
27	27 13C-2,3,4,7,8-PeCDF	1.43e6	1.59	NO	0.768	10.016	30.809	30.86	1.200	1.202	201.39	101	0.427	
28	28 13C-1,2,3,4,7,8-HxCDF	9.79e5	0.50	NO	0.993	10.016	33.440	33.45	0.987	0.987	156.19	78.2	0.311	
29	29 13C-1,2,3,6,7,8-HxCDF	9.61e5	0.50	NO	0.990	10.016	33.583	33.58	0.991	0.991	153.68	77.0	0.311	
30	30 13C-2,3,4,6,7,8-HxCDF	8.29e5	0.50	NO	0.944	10.016	34.250	34.25	1.011	1.011	138.97	69.6	0.326	
31	31 13C-1,2,3,7,8,9-HxCDF	7.88e5	0.51	NO	0.842	10.016	35.267	35.25	1.041	1.040	148.19	74.2	0.366	

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-10B.qld

Last Altered: Thursday, October 22, 2020 07:20:08 Pacific Daylight Time

Printed: Thursday, October 22, 2020 07:20:44 Pacific Daylight Time

Name: 200930R1\_10, Date: 30-Sep-2020, Time: 16:44:34, ID: 2001995-02 PDI-068SC-A-07-08-200430 10, Description: PDI-068SC-A-07-08-200430

#	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	5.76e5	0.43	NO	0.687	10.016	36.856	36.84	1.087	1.087	132.88	66.5	0.295	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.58e5	0.42	NO	0.555	10.016	38.805	38.81	1.145	1.145	130.86	65.5	0.365	
34	34 13C-OCDF	4.30e5	0.87	NO	0.608	10.016	41.394	41.44	1.221	1.223	112.05	28.1	0.221	
35	35 37Cl-2,3,7,8-TCDD	4.75e5			1.18	10.016	26.451	26.45	1.030	1.030	62.461	78.2	0.0293	
36	36 13C-1,2,3,4-TCDD	1.29e6	0.79	NO	1.00	10.016	25.740	25.68	1.000	1.000	199.68	100	0.116	
37	37 13C-1,2,3,4-TCDF	1.84e6	0.78	NO	1.00	10.016	24.310	24.22	1.000	1.000	199.68	100	0.181	
38	38 13C-1,2,3,4,6,9-HxCDF	1.26e6	0.51	NO	1.00	10.016	33.920	33.89	1.000	1.000	199.68	100	0.308	
39	39 Total Tetra-Dioxins				1.02	10.016	24.620		0.000		5.9562		0.0445	6.47
40	40 Total Penta-Dioxins				0.956	10.016	29.960		0.000		10.245		0.0721	13.2
41	41 Total Hexa-Dioxins				0.888	10.016	33.635		0.000		17.980		0.109	18.0
42	42 Total Hepta-Dioxins				0.832	10.016	37.640		0.000		44.563		0.356	44.6
43	43 Total Tetra-Furans				0.735	10.016	23.610		0.000		42.372		0.0892	44.3
44	44 1st Func. Penta-Furans				0.939	10.016	27.230		0.000		44.673		0.0201	44.7
45	45 Total Penta-Furans				0.939	10.016	29.275		0.000		31.157		0.103	31.2
46	46 Total Hexa-Furans				0.870	10.016	33.555		0.000		41.390		0.0912	41.4
47	47 Total Hepta-Furans				0.891	10.016	37.835		0.000		10.446		0.160	10.4

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-10B.qld

Last Altered: Thursday, October 22, 2020 07:20:08 Pacific Daylight Time

Printed: Thursday, October 22, 2020 07:20:44 Pacific Daylight Time

Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_10, Date: 30-Sep-2020, Time: 16:44:34, ID: 2001995-02 PDI-068SC-A-07-08-200430 10, Description: PDI-068SC-A-07-08-200430

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.75	2.650e4	3.646e4	2.471e3	3.340e3	0.74	NO	5.811e3	0.88286	0.88286	0.0445
2	Total Tetra-Dioxins	23.08	1.611e4	2.310e4	1.505e3	1.900e3	0.79	NO	3.405e3	0.51729	0.51729	0.0445
3	Total Tetra-Dioxins	23.57	9.946e3	1.504e4	8.840e2	1.087e3	0.81	NO	1.971e3	0.29943	0.29943	0.0445
4	Total Tetra-Dioxins	24.43	8.557e3	1.294e4	6.632e2	7.546e2	0.88	NO	1.418e3	0.21540	0.21540	0.0445
5	Total Tetra-Dioxins	24.64	4.331e4	5.319e4	3.495e3	4.197e3	0.83	NO	7.692e3	1.1686	1.1686	0.0445
6	Total Tetra-Dioxins	24.84	3.625e4	4.631e4	2.598e3	3.369e3	0.77	NO	5.967e3	0.90646	0.90646	0.0445
7	Total Tetra-Dioxins	25.04	1.126e4	1.522e4	8.396e2	9.566e2	0.88	NO	1.796e3	0.27287	0.27287	0.0445
8	Total Tetra-Dioxins	25.35	1.004e4	1.189e4	5.189e2	7.226e2	0.72	NO	1.242e3	0.18862	0.18862	0.0445
9	Total Tetra-Dioxins	25.41	1.718e4	2.153e4	1.340e3	1.557e3	0.86	NO	2.896e3	0.44000	0.44000	0.0445
10	Total Tetra-Dioxins	25.73	3.443e3	3.532e3	1.533e2	1.819e2	0.84	NO	0.000e0	0.00000	0.050913	0.0445
11	Total Tetra-Dioxins	25.77	1.070e4	9.776e3	7.048e2	6.716e2	1.05	YES	0.000e0	0.00000	0.18059	0.0445
12	Total Tetra-Dioxins	25.88	4.247e3	3.924e3	2.075e2	2.356e2	0.88	NO	4.431e2	0.067312	0.067312	0.0445
13	Total Tetra-Dioxins	26.18	1.469e4	2.246e4	1.461e3	2.155e3	0.68	NO	3.616e3	0.54937	0.54937	0.0445
14	2,3,7,8-TCDD	26.46	1.319e4	2.733e4	8.175e2	1.673e3	0.49	YES	2.491e3	0.00000	0.28549	0.0445
15	Total Tetra-Dioxins	26.76	1.590e4	2.229e4	9.129e2	1.307e3	0.70	NO	2.220e3	0.33731	0.33731	0.0445
16	Total Tetra-Dioxins	27.33	5.972e3	6.148e3	3.321e2	3.967e2	0.84	NO	7.288e2	0.11072	0.11072	0.0445

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-10B.qld

Last Altered: Thursday, October 22, 2020 07:20:08 Pacific Daylight Time  
 Printed: Thursday, October 22, 2020 07:20:44 Pacific Daylight Time

Name: 200930R1\_10, Date: 30-Sep-2020, Time: 16:44:34, ID: 2001995-02 PDI-068SC-A-07-08-200430 10, Description: PDI-068SC-A-07-08-200430

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.94	9.440e4	1.417e5	8.005e3	1.262e4	0.63	NO	2.062e4	3.9427	3.9427	0.0721
2	Total Penta-Dioxins	29.51	1.363e4	1.961e4	9.440e2	1.493e3	0.63	NO	2.437e3	0.46595	0.46595	0.0721
3	Total Penta-Dioxins	29.84	9.717e4	1.366e5	4.632e3	6.545e3	0.71	NO	1.118e4	2.1369	2.1369	0.0721
4	Total Penta-Dioxins	30.01	8.371e4	1.086e5	3.797e3	5.295e3	0.72	NO	0.000e0	0.00000	1.7381	0.0721
5	Total Penta-Dioxins	30.06	5.337e4	6.631e4	2.033e3	2.823e3	0.72	NO	0.000e0	0.00000	0.92839	0.0721
6	Total Penta-Dioxins	30.30	4.679e4	7.612e4	3.634e3	5.392e3	0.67	NO	9.026e3	1.7257	1.7257	0.0721
7	Total Penta-Dioxins	30.62	1.204e4	1.470e4	7.152e2	9.322e2	0.77	YES	0.000e0	0.00000	0.29049	0.0721
8	1,2,3,7,8-PeCDD	31.08	4.357e4	8.205e4	2.215e3	4.039e3	0.55	NO	6.255e3	1.1957	1.1957	0.0721
9	Total Penta-Dioxins	31.16	1.356e4	1.494e4	5.960e2	8.538e2	0.70	NO	1.450e3	0.27717	0.27717	0.0721
10	Total Penta-Dioxins	31.43	1.785e4	3.314e4	9.809e2	1.637e3	0.60	NO	2.618e3	0.50055	0.50055	0.0721

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.73	2.515e5	2.010e5	1.140e4	9.618e3	1.19	NO	2.102e4	5.8237	5.8237	0.109
2	Total Hexa-Dioxins	33.33	4.185e4	2.999e4	2.156e3	1.848e3	1.17	NO	4.004e3	1.1094	1.1094	0.109
3	Total Hexa-Dioxins	33.63	2.485e5	1.898e5	1.621e4	1.271e4	1.28	NO	2.892e4	8.0127	8.0127	0.109
4	Total Hexa-Dioxins	33.70	1.240e4	1.091e4	5.851e2	4.681e2	1.25	NO	1.053e3	0.29183	0.29183	0.109
5	1,2,3,4,7,8-HxCDD	34.37	1.259e4	9.696e3	6.559e2	5.538e2	1.18	NO	1.210e3	0.31307	0.31307	0.0995
6	1,2,3,6,7,8-HxCDD	34.50	4.708e4	4.020e4	2.938e3	2.494e3	1.18	NO	5.432e3	1.4314	1.4314	0.107
7	Total Hexa-Dioxins	34.66	8.885e3	6.094e3	4.379e2	3.742e2	1.17	NO	8.121e2	0.22502	0.22502	0.109
8	1,2,3,7,8,9-HxCDD	34.76	2.605e4	1.929e4	1.566e3	1.289e3	1.21	NO	2.854e3	0.77259	0.77259	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	37.24	3.712e5	3.643e5	3.023e4	2.929e4	1.03	NO	5.952e4	27.799	27.799	0.356
2	1,2,3,4,6,7,8-HpCDD	38.21	2.836e5	2.828e5	1.781e4	1.809e4	0.98	NO	3.589e4	16.764	16.764	0.356



Dataset: U:\VG12.PRO\Results\200930R1\200930R1-10B.qld

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Name: 200930R1\_10, Date: 30-Sep-2020, Time: 16:44:34, ID: 2001995-02 PDI-068SC-A-07-08-200430 10, Description: PDI-068SC-A-07-08-200430

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.50	1.465e4	2.136e4	1.273e3	1.921e3	0.66	NO	3.194e3	0.54726	0.54726	0.0892
2	Total Tetra-Furans	21.07	7.545e4	1.026e5	6.551e3	9.225e3	0.71	NO	1.578e4	2.7030	2.7030	0.0892
3	Total Tetra-Furans	21.88	2.952e5	3.910e5	2.768e4	3.749e4	0.74	NO	6.517e4	11.166	11.166	0.0892
4	Total Tetra-Furans	22.24	3.161e4	4.707e4	3.109e3	4.408e3	0.71	NO	7.517e3	1.2879	1.2879	0.0892
5	Total Tetra-Furans	22.36	1.316e4	1.874e4	8.751e2	1.196e3	0.73	NO	2.071e3	0.35479	0.35479	0.0892
6	Total Tetra-Furans	22.47	1.345e4	1.485e4	9.247e2	1.384e3	0.67	NO	2.309e3	0.39554	0.39554	0.0892
7	Total Tetra-Furans	22.78	1.350e5	1.916e5	1.171e4	1.625e4	0.72	NO	2.797e4	4.7916	4.7916	0.0892
8	Total Tetra-Furans	23.24	1.926e5	2.563e5	1.553e4	2.146e4	0.72	NO	3.699e4	6.3375	6.3375	0.0892
9	Total Tetra-Furans	23.36	9.562e3	1.393e4	6.622e2	9.672e2	0.68	NO	1.629e3	0.27917	0.27917	0.0892
10	Total Tetra-Furans	23.57	1.834e4	2.880e4	1.692e3	2.027e3	0.83	NO	3.718e3	0.63708	0.63708	0.0892
11	Total Tetra-Furans	23.96	1.985e4	1.066e4	3.111e3	1.472e3	2.11	YES	0.000e0	0.00000	0.44646	0.0892
12	Total Tetra-Furans	24.08	5.380e4	5.363e4	5.481e3	4.003e3	1.37	YES	0.000e0	0.00000	1.2138	0.0892
13	Total Tetra-Furans	24.28	2.488e4	1.273e4	1.658e3	7.635e2	2.17	YES	0.000e0	0.00000	0.23154	0.0892
14	Total Tetra-Furans	24.35	2.206e5	2.887e5	1.776e4	2.250e4	0.79	NO	4.026e4	6.8977	6.8977	0.0892
15	Total Tetra-Furans	24.77	4.648e4	5.661e4	3.125e3	3.928e3	0.80	NO	7.053e3	1.2084	1.2084	0.0892
16	Total Tetra-Furans	25.10	1.388e4	1.660e4	9.003e2	1.026e3	0.88	NO	1.927e3	0.33010	0.33010	0.0892
17	Total Tetra-Furans	25.20	1.463e4	1.613e4	9.489e2	1.095e3	0.87	NO	2.044e3	0.35019	0.35019	0.0892
18	Total Tetra-Furans	25.31	7.756e3	7.564e3	4.723e2	5.532e2	0.85	NO	1.025e3	0.17570	0.17570	0.0892
19	Total Tetra-Furans	25.49	1.450e4	1.981e4	9.338e2	1.162e3	0.80	NO	2.096e3	0.35917	0.35917	0.0892
20	Total Tetra-Furans	25.64	3.066e4	3.709e4	2.033e3	2.440e3	0.83	NO	4.473e3	0.76634	0.76634	0.0892
21	2,3,7,8-TCDF	25.77	2.427e4	3.945e4	1.682e3	2.329e3	0.72	NO	4.011e3	0.68718	0.68718	0.0892
22	Total Tetra-Furans	26.07	1.706e4	2.545e4	1.405e3	1.964e3	0.72	NO	3.369e3	0.57717	0.57717	0.0892
23	Total Tetra-Furans	26.34	9.337e3	1.255e4	6.027e2	8.500e2	0.71	NO	1.453e3	0.24889	0.24889	0.0892
24	Total Tetra-Furans	26.94	9.833e3	1.644e4	7.158e2	9.174e2	0.78	NO	1.633e3	0.27983	0.27983	0.0892
25	Total Tetra-Furans	27.08	1.116e4	1.256e4	7.271e2	8.457e2	0.86	NO	1.573e3	0.26947	0.26947	0.0892
26	Total Tetra-Furans	27.25	5.313e4	6.506e4	3.820e3	4.708e3	0.81	NO	8.528e3	1.4612	1.4612	0.0892
27	Total Tetra-Furans	27.63	1.296e4	1.188e4	7.086e2	8.184e2	0.87	NO	1.527e3	0.26164	0.26164	0.0892

**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	27.24	2.991e6	1.865e6	1.888e5	1.179e5	1.60	NO	3.066e5	44.673	44.673	0.0201

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-10B.qld

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Name: 200930R1\_10, Date: 30-Sep-2020, Time: 16:44:34, ID: 2001995-02 PDI-068SC-A-07-08-200430 10, Description: PDI-068SC-A-07-08-200430

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.77	6.523e4	4.299e4	6.662e3	4.317e3	1.54	NO	1.098e4	1.5994	1.5994	0.103
2	Total Penta-Furans	28.96	6.633e5	4.312e5	6.007e4	3.913e4	1.54	NO	9.919e4	14.451	14.451	0.103
3	Total Penta-Furans	29.67	6.817e5	4.411e5	2.503e4	1.619e4	1.55	NO	4.122e4	6.0058	6.0058	0.103
4	Total Penta-Furans	29.77	2.858e4	1.724e4	8.651e2	5.071e2	1.71	NO	1.372e3	0.19990	0.19990	0.103
5	1,2,3,7,8-PeCDF	29.86	3.643e4	2.678e4	1.802e3	1.103e3	1.63	NO	2.906e3	0.41362	0.41362	0.0961
6	Total Penta-Furans	30.09	1.711e5	1.019e5	9.407e3	5.948e3	1.58	NO	1.536e4	2.2370	2.2370	0.103
7	2,3,4,7,8-PeCDF	30.90	5.534e5	3.530e5	2.848e4	1.837e4	1.55	NO	4.685e4	6.2502	6.2502	0.0981

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.20	1.216e5	9.101e4	5.720e3	4.486e3	1.27	NO	1.021e4	2.6352	2.6352	0.0912
2	Total Hexa-Furans	32.37	7.053e5	5.773e5	3.430e4	2.795e4	1.23	NO	6.225e4	16.073	16.073	0.0912
3	Total Hexa-Furans	32.77	1.132e4	1.086e4	5.081e2	4.395e2	1.16	NO	9.476e2	0.24468	0.24468	0.0912
4	Total Hexa-Furans	33.00	6.746e5	5.354e5	3.242e4	2.629e4	1.23	NO	5.872e4	15.161	15.161	0.0912
5	Total Hexa-Furans	33.34	9.553e3	6.906e3	4.978e2	3.517e2	1.42	NO	8.495e2	0.21935	0.21935	0.0912
6	1,2,3,4,7,8-HxCDF	33.47	7.833e4	6.038e4	4.033e3	3.352e3	1.20	NO	7.385e3	1.7890	1.7890	0.0820
7	1,2,3,6,7,8-HxCDF	33.60	6.373e4	5.090e4	3.315e3	2.743e3	1.21	NO	6.058e3	1.4086	1.4086	0.0798
8	Total Hexa-Furans	33.93	6.962e3	6.252e3	4.128e2	3.067e2	1.35	NO	7.195e2	0.18579	0.18579	0.0912
9	2,3,4,6,7,8-HxCDF	34.27	8.828e4	7.469e4	5.972e3	4.852e3	1.23	NO	1.082e4	2.9984	2.9984	0.0945
10	1,2,3,7,8,9-HxCDF	35.30	1.796e4	1.619e4	7.353e2	6.857e2	1.07	NO	1.421e3	0.42129	0.42129	0.116
11	Total Hexa-Furans	35.32	1.834e4	1.662e4	5.588e2	4.238e2	1.32	NO	9.826e2	0.25370	0.25370	0.0912

**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	36.85	8.200e4	8.382e4	6.023e3	6.067e3	0.99	NO	1.209e4	4.7031	4.7031	0.160
2	Total Hepta-Furans	37.56	9.376e4	8.598e4	6.051e3	5.886e3	1.03	NO	1.194e4	5.1732	5.1732	0.160
3	1,2,3,4,7,8,9-HpCDF	38.81	7.925e3	1.085e4	6.288e2	6.786e2	0.93	NO	1.307e3	0.56968	0.56968	0.143

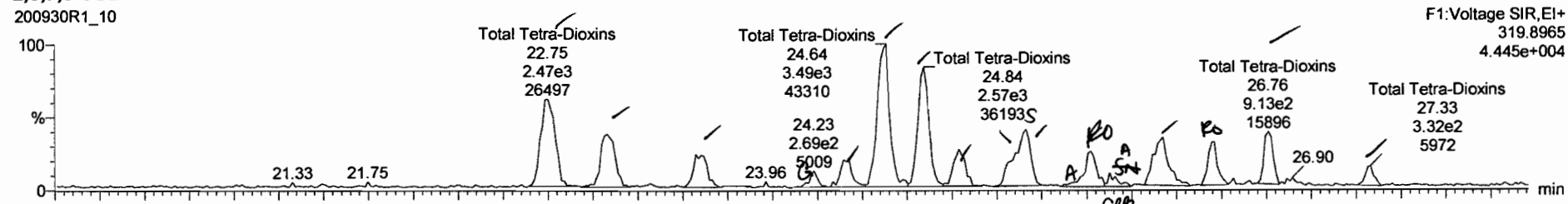
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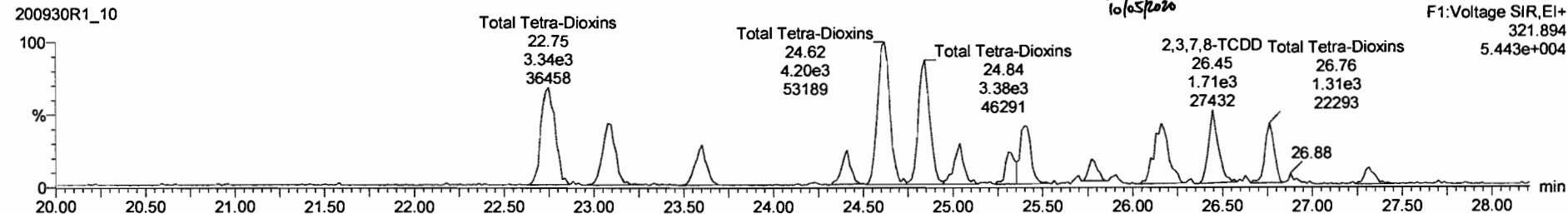
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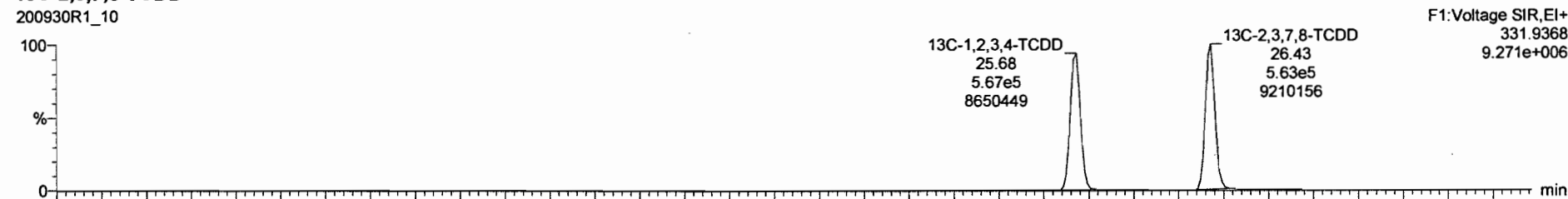
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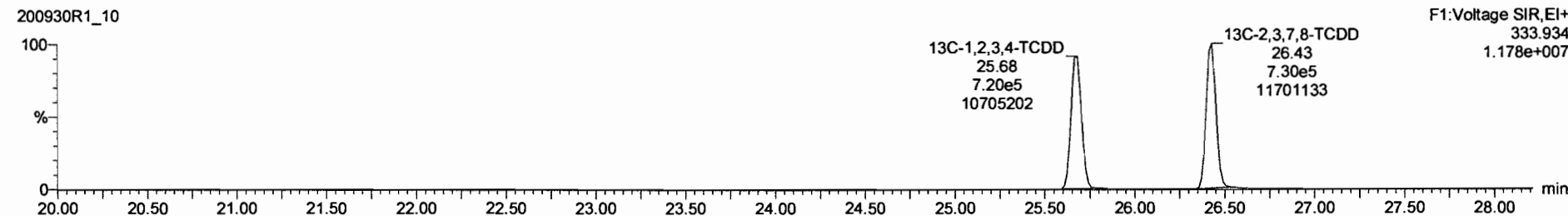
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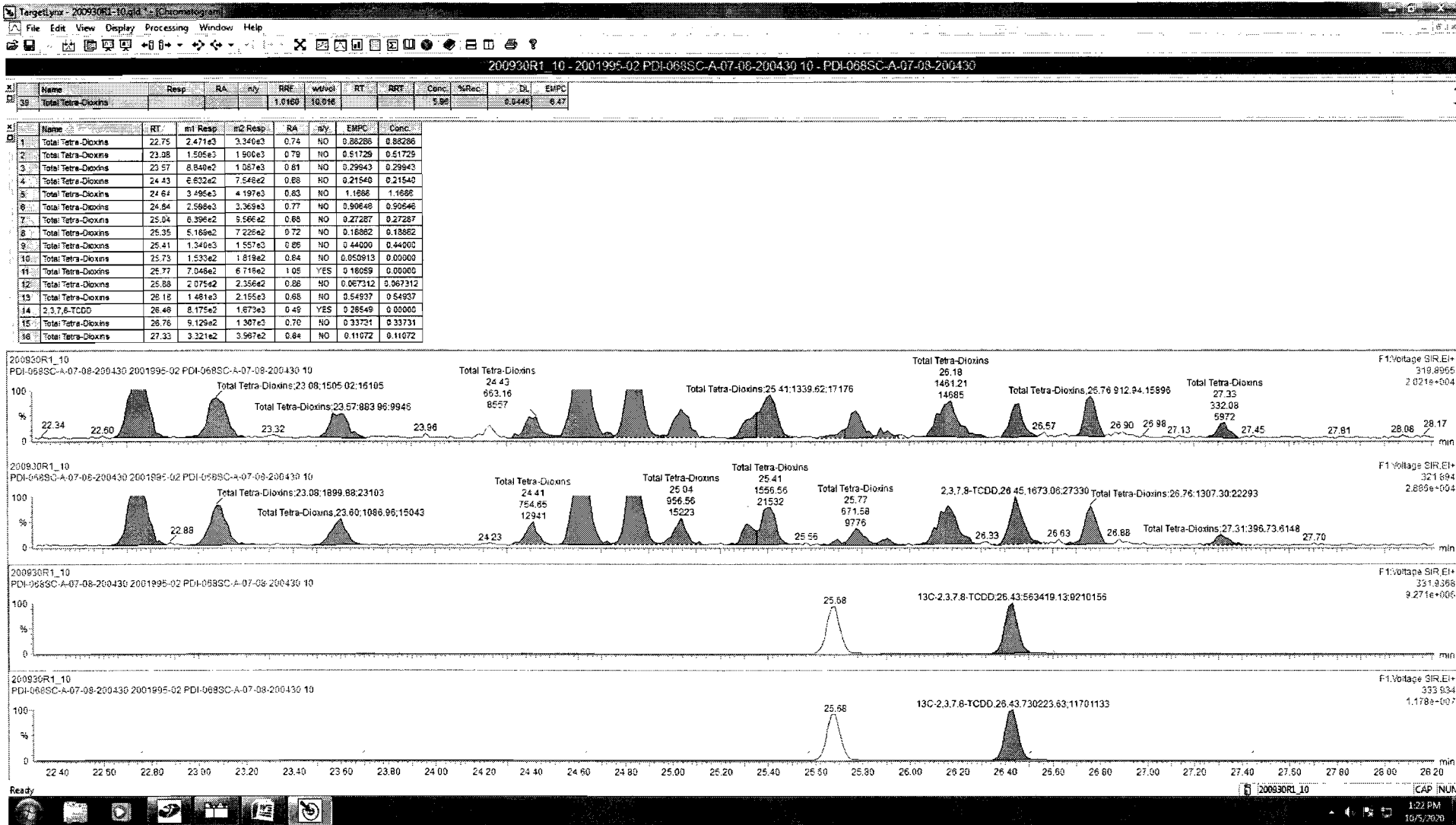


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200930R1\_10



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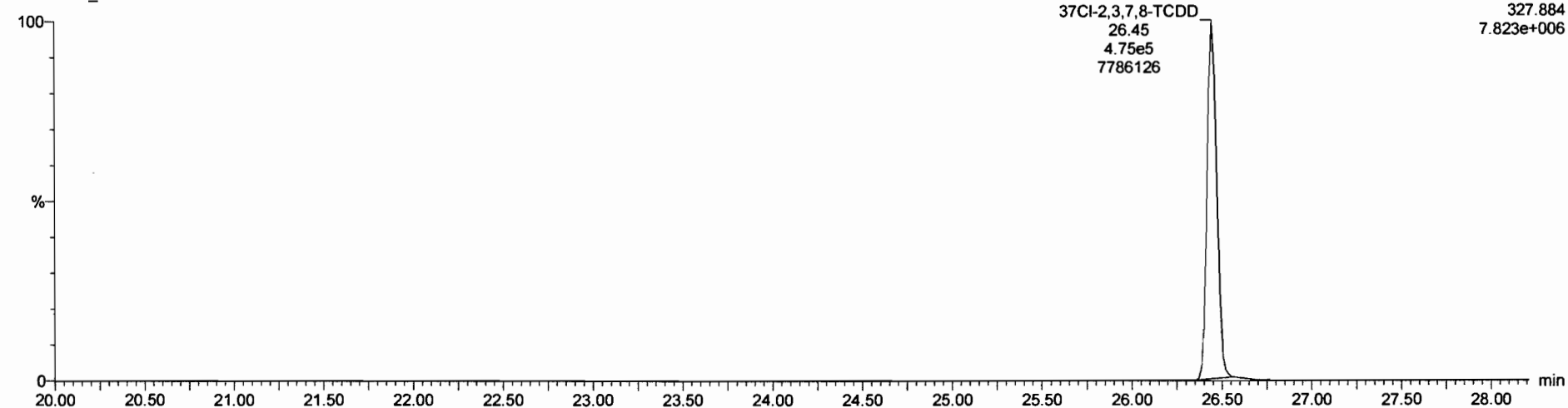
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**37Cl-2,3,7,8-TCDD**

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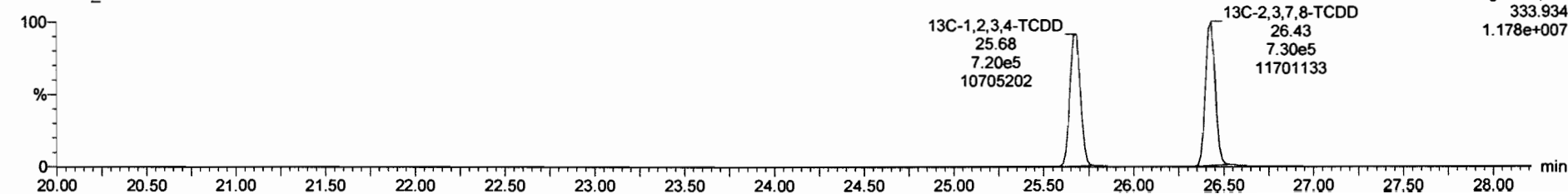


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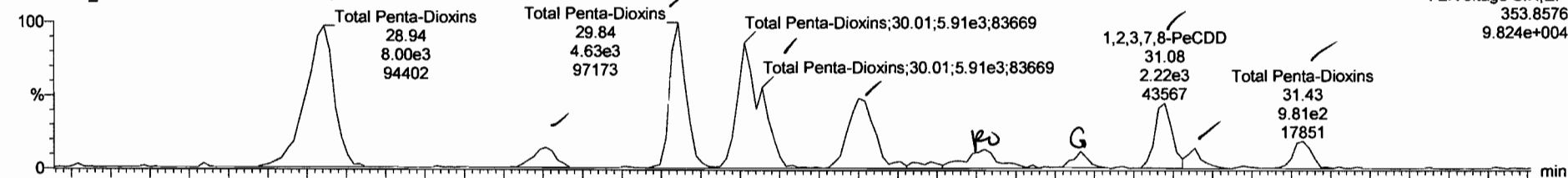
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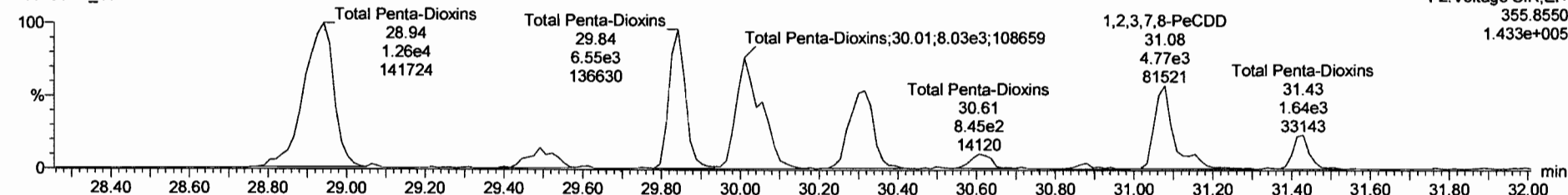
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### 1,2,3,7,8-PeCDD

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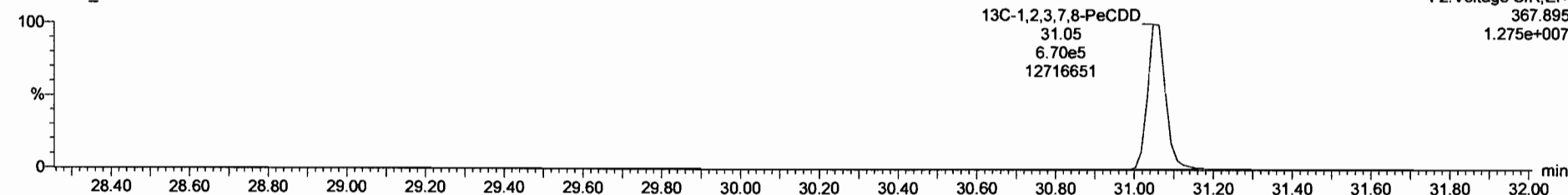


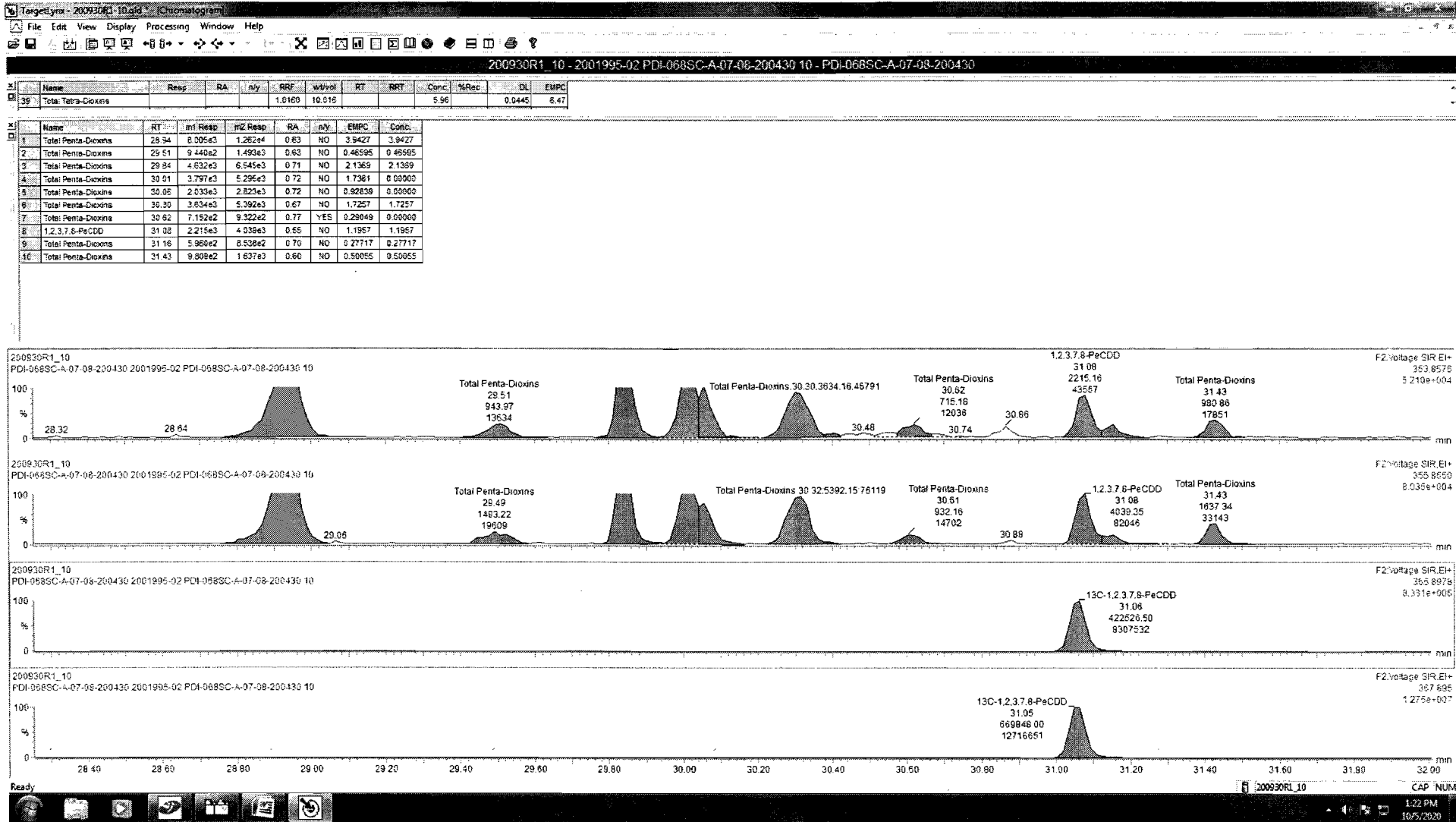
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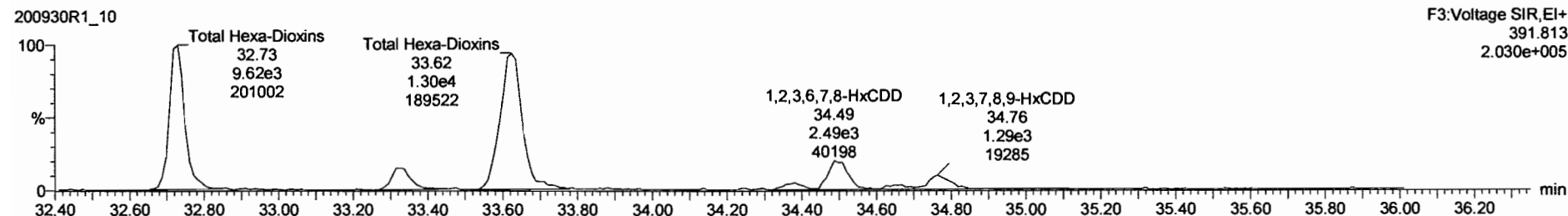
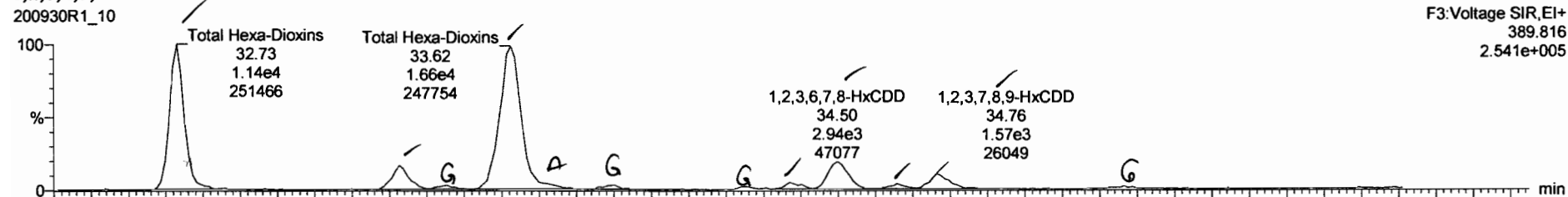


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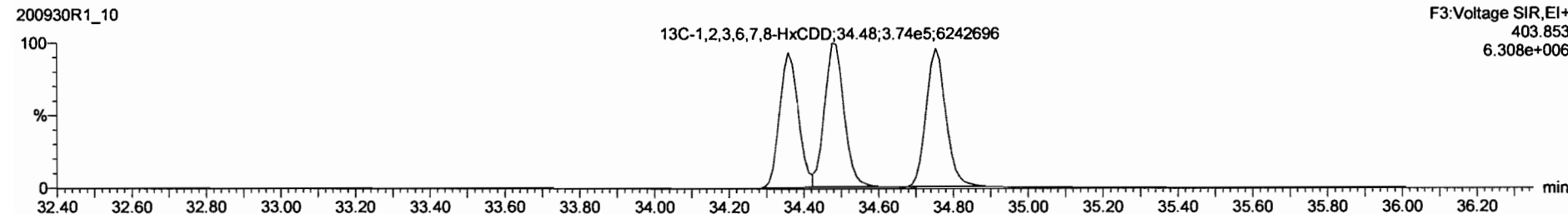
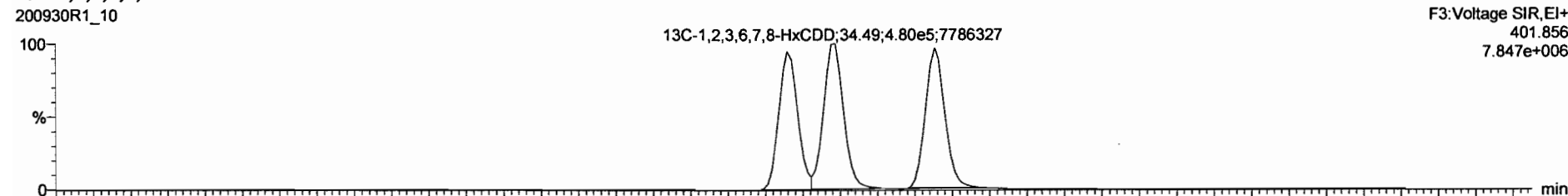
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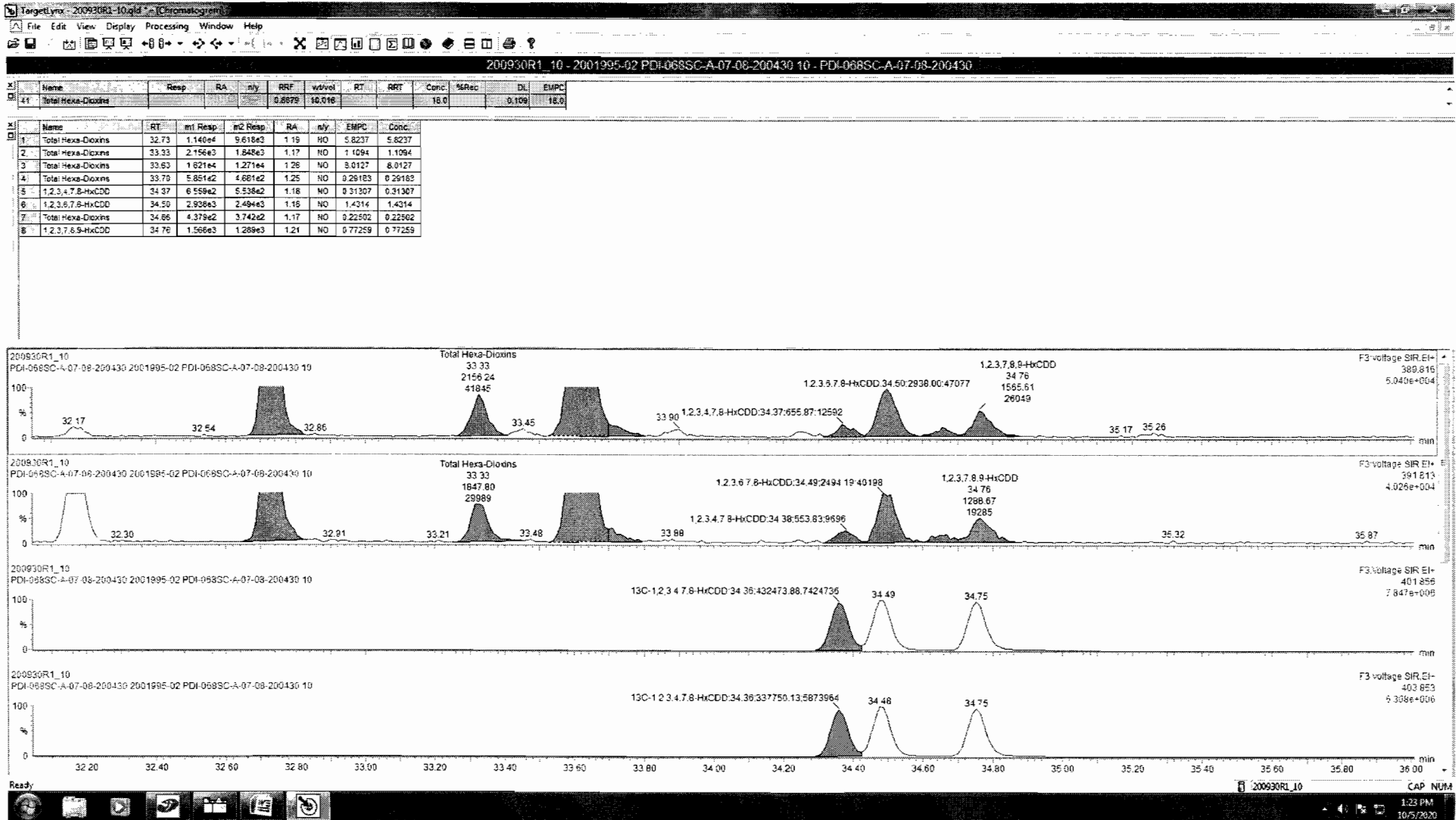
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13C-1,2,3,4,7,8-HxCDD







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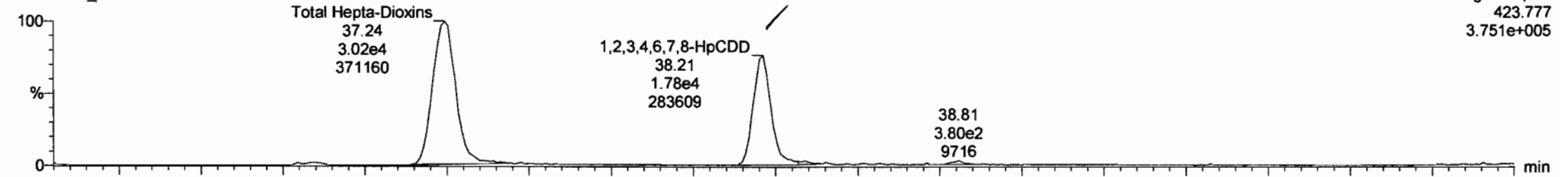
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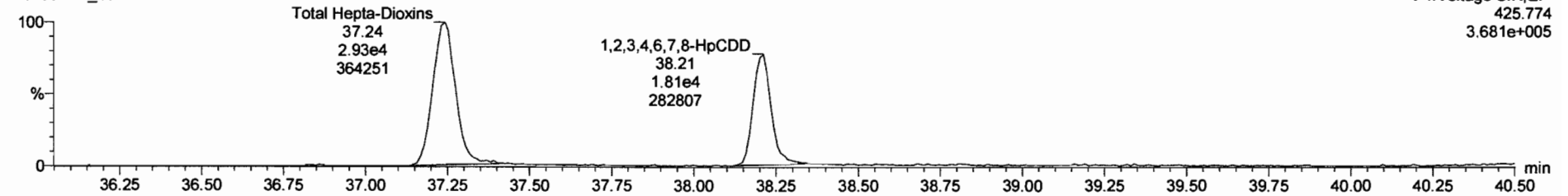
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**1,2,3,4,6,7,8-HpCDD**

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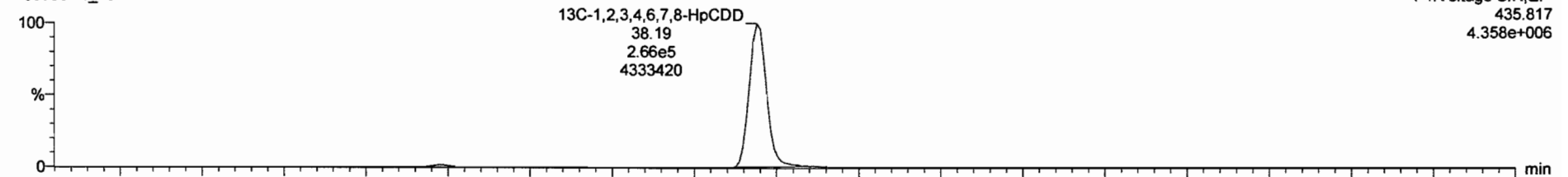


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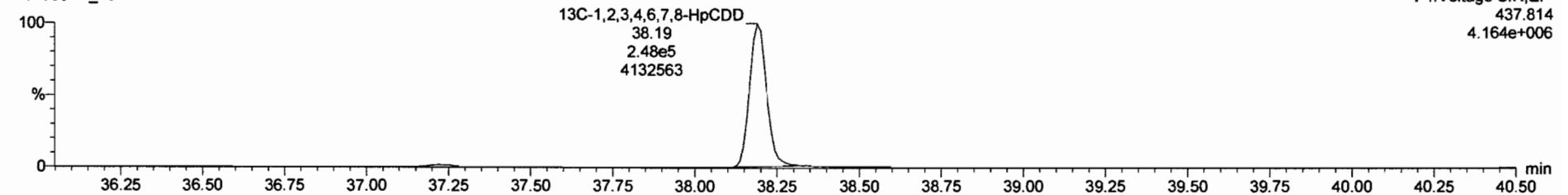


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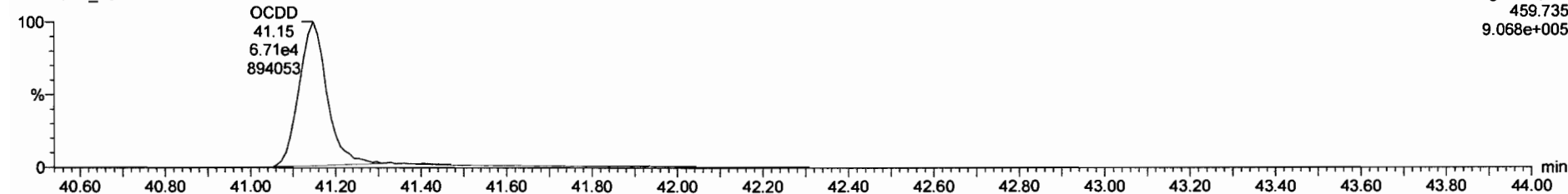
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200930R1\_10



200930R1\_10

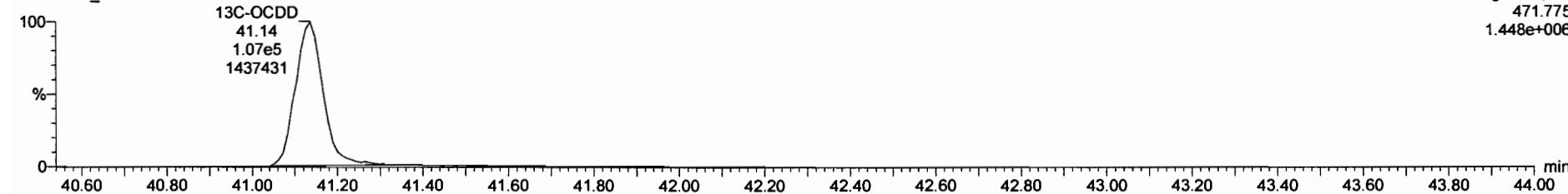


**13C-OCDD**

200930R1\_10



200930R1\_10



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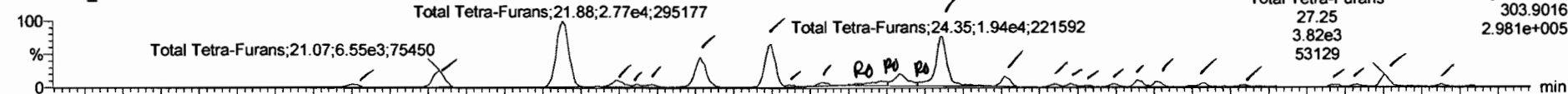
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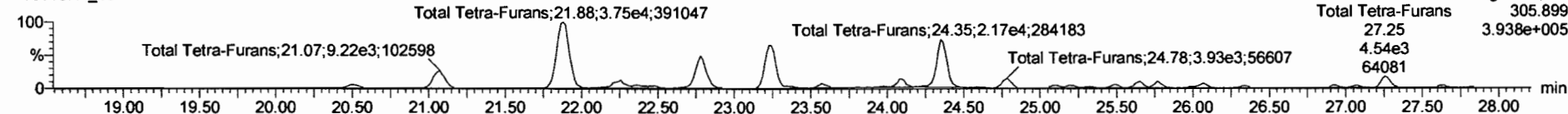
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**2,3,7,8-TCDF**

200930R1\_10

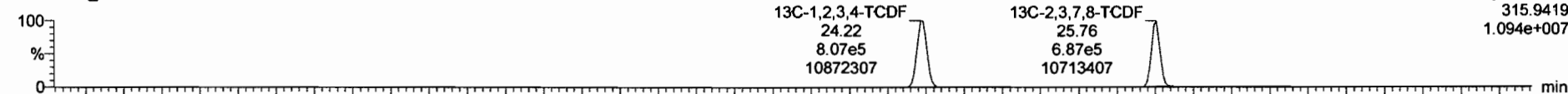


200930R1\_10

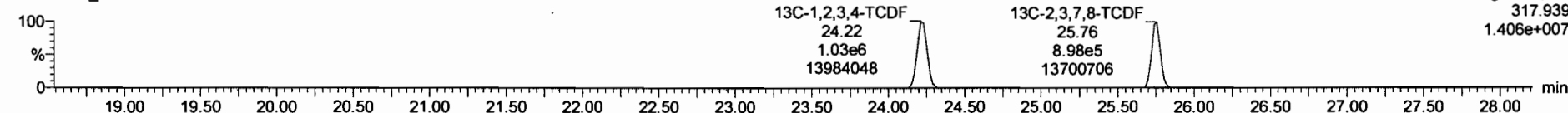


**13C-2,3,7,8-TCDF**

200930R1\_10

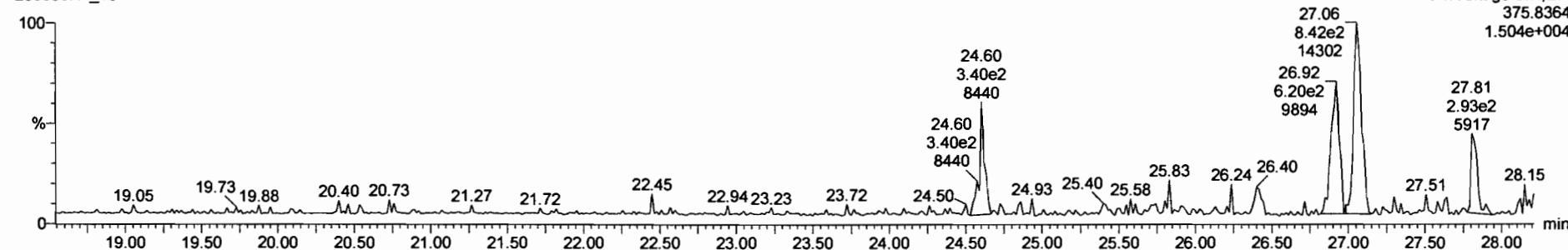


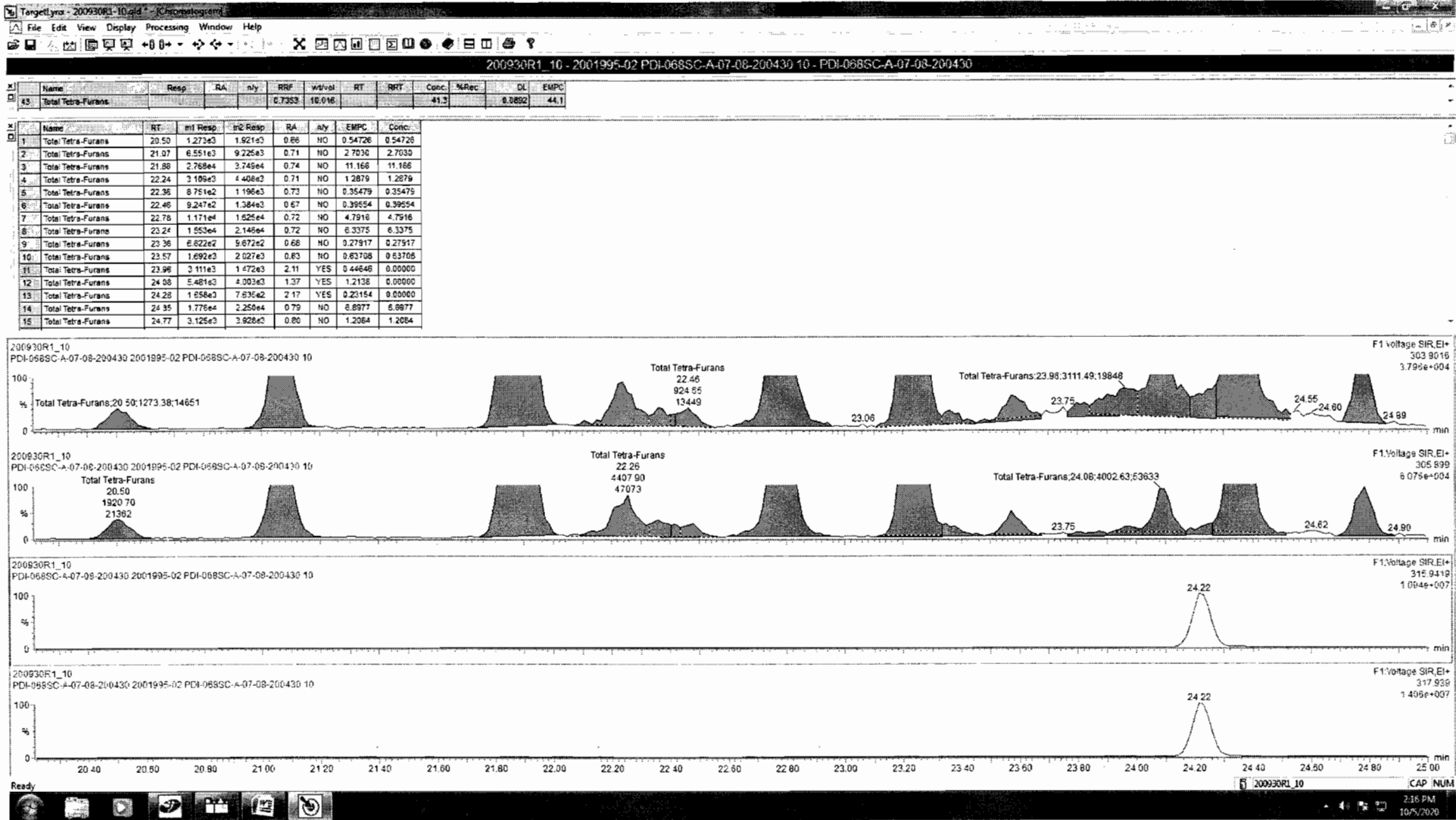
200930R1\_10

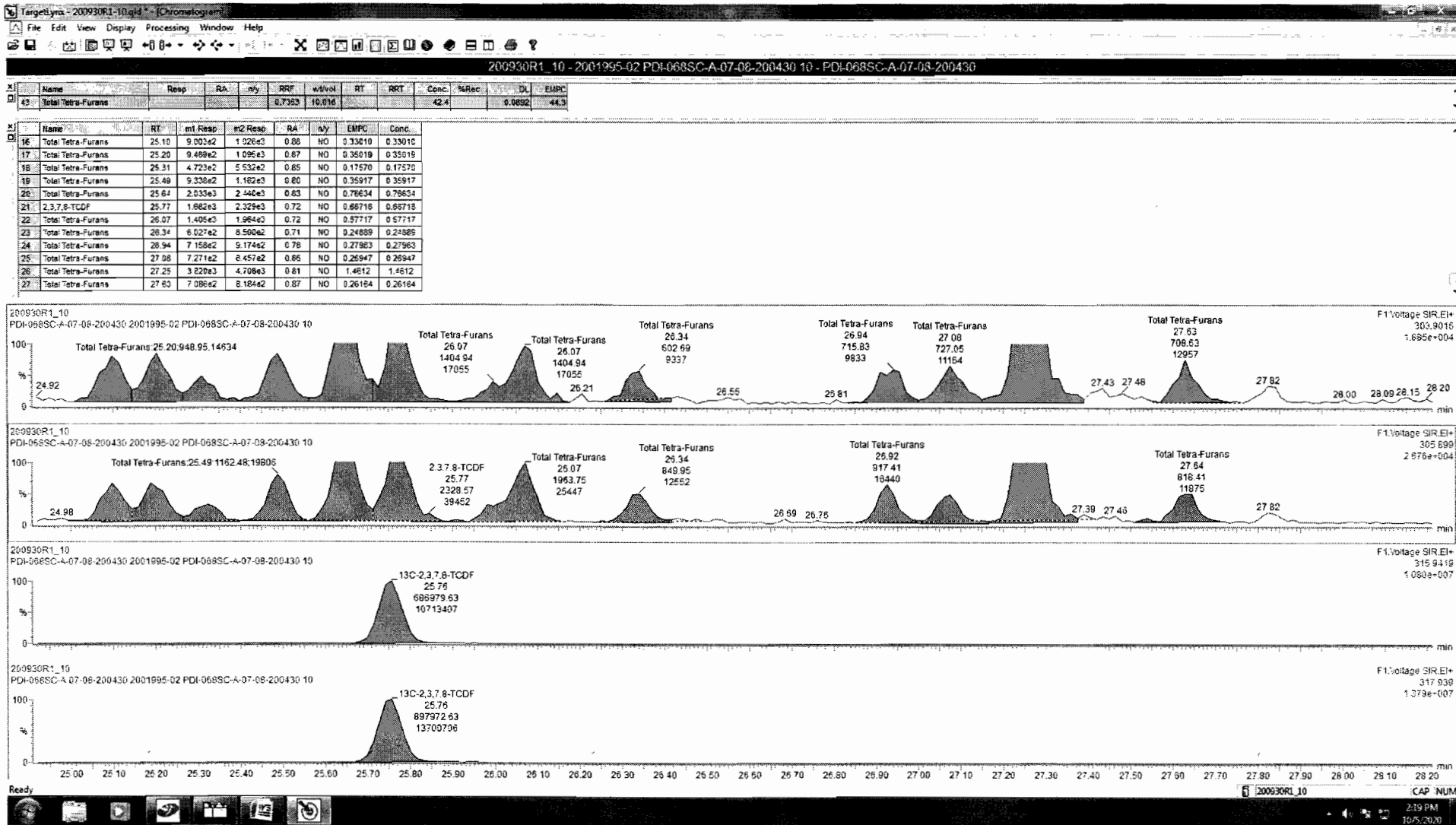


**DPE1**

200930R1\_10







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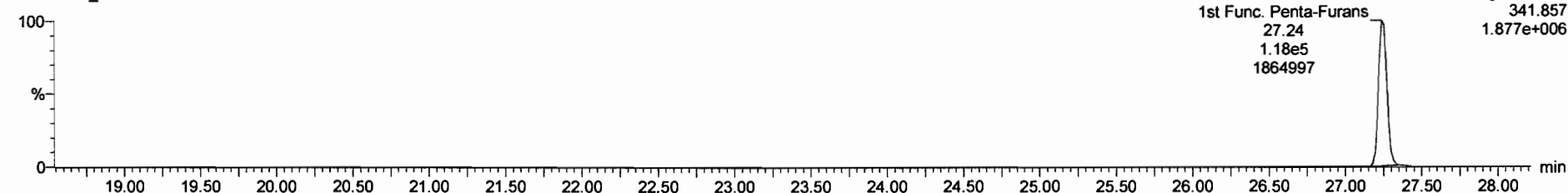
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1st Func. Penta-Furans

200930R1\_10

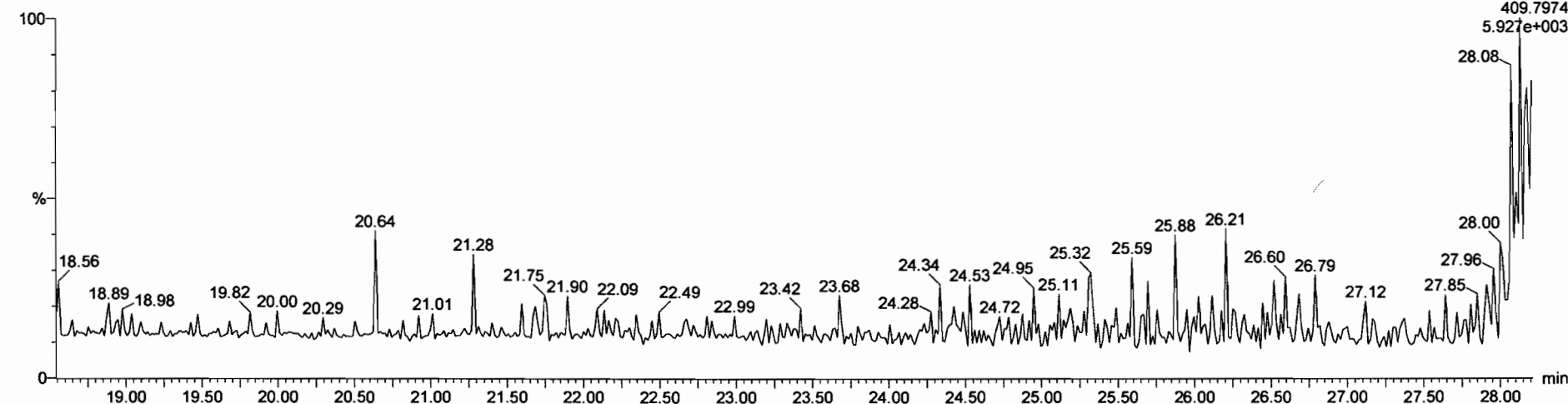


200930R1\_10



DPE6

200930R1\_10



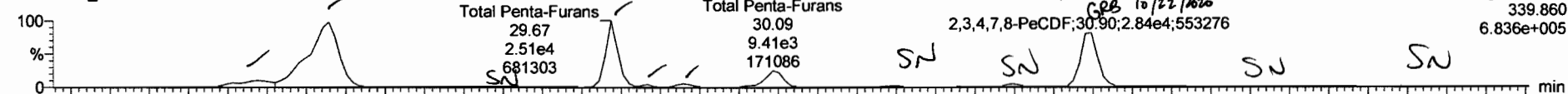
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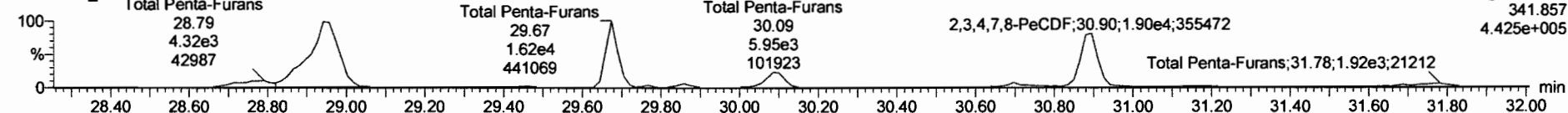
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**1,2,3,7,8-PeCDF**

200930R1\_10



200930R1\_10

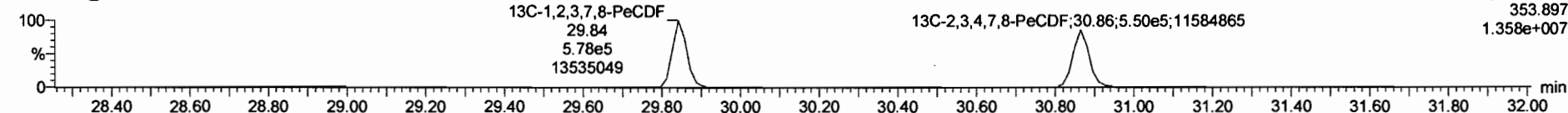


**13C-1,2,3,7,8-PeCDF**

200930R1\_10

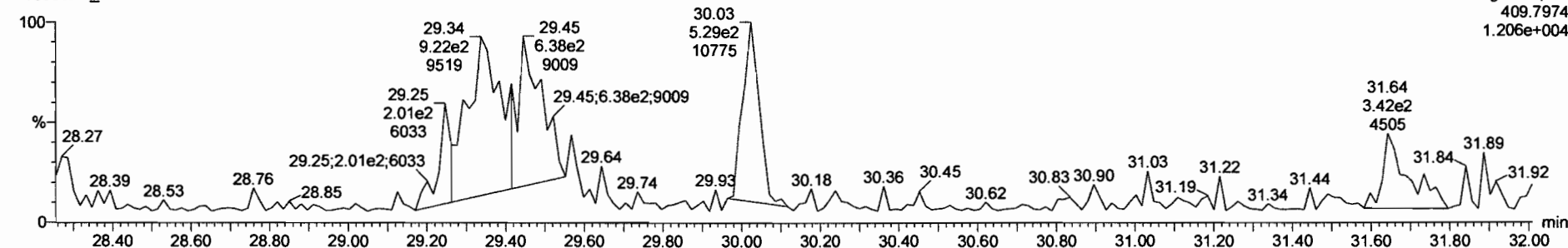


200930R1\_10



**DPE2**

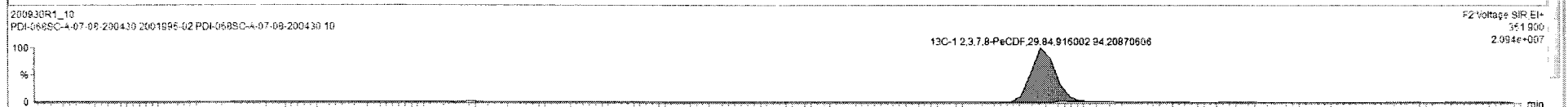
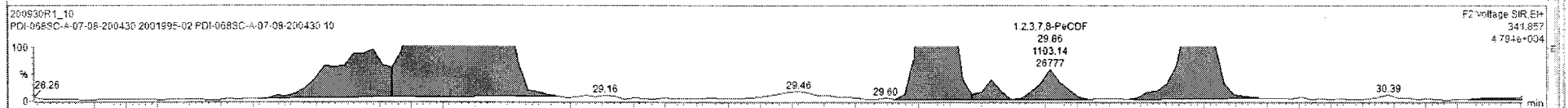
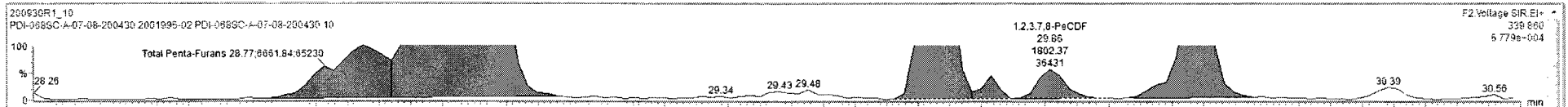
200930R1\_10





Name	Resp	RA	nt	RRF	wtVol	RT	RET	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.9386	10.016			91.2		0.103	31.8

Name	RT	ml Resp	m2 Resp	RA	nt	EMPC	Conc.	
1	Total Penta-Furans	28.77	6.662e3	4.317e3	1.54	NO	1.5994	1.5994
2	Total Penta-Furans	28.96	6.007e4	3.913e4	1.54	NO	14.451	14.451
3	Total Penta-Furans	29.67	2.503e4	1.619e4	1.55	NO	6.0058	6.0058
4	Total Penta-Furans	29.77	8.651e2	5.071e2	1.71	NO	0.19990	0.19990
5	1,2,3,7,8-PeCDF	29.86	1.802e3	1.103e3	1.63	NO	0.41362	0.41362
6	Total Penta-Furans	30.39	9.407e3	5.948e3	1.58	NO	2.2370	2.2370
7	Total Penta-Furans	30.70	1.185e3	2.378e3	0.50	YES	0.28405	0.00900
8	2,3,4,7,8-PeCDF	30.90	2.045e4	1.899e4	1.50	NO	6.3276	6.3276
9	Total Penta-Furans	31.28	2.737e2	2.109e2	1.30	YES	0.065602	0.00900
10	Total Penta-Furans	31.83	5.722e2	7.062e2	0.61	YES	0.13715	0.00900
11	Total Penta-Furans	31.72	2.938e2	1.919e3	0.15	YES	0.070374	0.00900



200930R1\_10 - 2001995-02 PDI-068SC-A-07-08-200430 10 - PDI-068SC-A-07-08-200430

Name	Resp	RA	ny	RRF	wbVol	RT	RRT	Conc	%Rec	DL	ENPC
38	13C-1,2,3,4,6,8-HxCDF	1.26e6	0.51	NO	1.0600	10.016	33.89	1.000	200	100	0.308
39	Total Tetra-Dioxins				1.0180	10.016		5.96		0.0445	6.47
40	Total Penta-Dioxins				0.9561	10.016		10.2		0.0721	13.2
41	Total Hexa-Dioxins				0.8879	10.016		18.0		0.109	18.0
42	Total Hepta-Dioxins				0.8318	10.016		44.6		0.358	44.6
43	Total Tetra-Furans				0.7353	10.016		42.4		0.0892	44.3
44	1st Func. Penta-Furans				0.9386	10.016		44.7		0.0201	44.7
45	Total Penta-Furans				0.8386	10.016		31.2		0.103	31.2
46	Total Hexa-Furans				0.8699	10.016		41.1		0.0912	41.1
47	Total Hepta-Furans				0.8608	10.016		10.4		0.160	10.4
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										

200930R1\_10  
PDI-068SC-A-07-08-200430 2001995-02 PDI-068SC-A-07-08-200430 10

2,3,4,7,8-PeCDF.30.90:28482.50:553395

30.70

F2: Voltage S1R, EI+  
339.869  
5.578e+005

200930R1\_10  
PDI-068SC-A-07-08-200430 2001995-02 PDI-068SC-A-07-08-200430 10

2,3,4,7,8-PeCDF.30.90:18371.52:353036

30.70

31.78

F2: Voltage S1R, EI+  
341.857  
3.570e+005

200930R1\_10  
PDI-068SC-A-07-08-200430 2001995-02 PDI-068SC-A-07-08-200430 10

30.86

F2: Voltage S1R, EI+  
351.900  
1.841e+007

200930R1\_10  
PDI-068SC-A-07-08-200430 2001995-02 PDI-068SC-A-07-08-200430 10

30.86

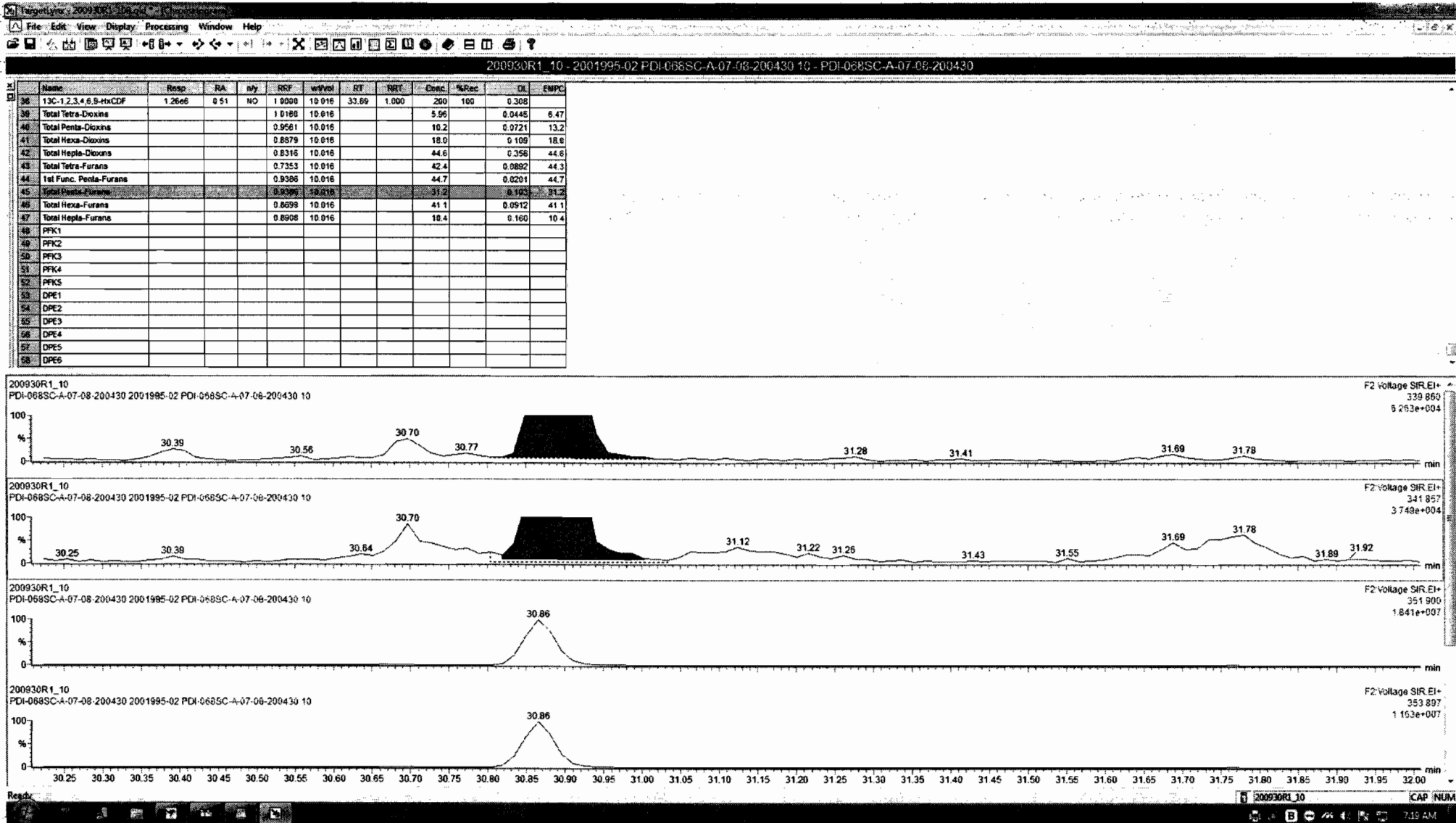
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1.163e+007

30.25 30.30 30.35 30.40 30.45 30.50 30.55 30.60 30.65 30.70 30.75 30.80 30.85 30.90 30.95 31.00 31.05 31.10 31.15 31.20 31.25 31.30 31.35 31.40 31.45 31.50 31.55 31.60 31.65 31.70 31.75 31.80 31.85 31.90 31.95 32.00

Custom Reporting: Select reports to generate

200930R1\_10

7:19 AM

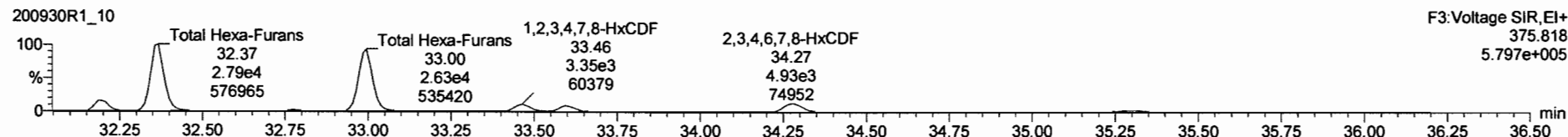
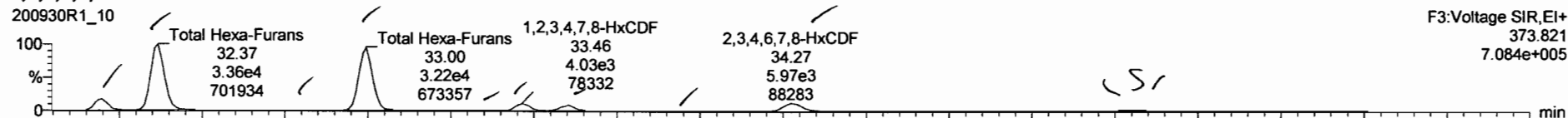


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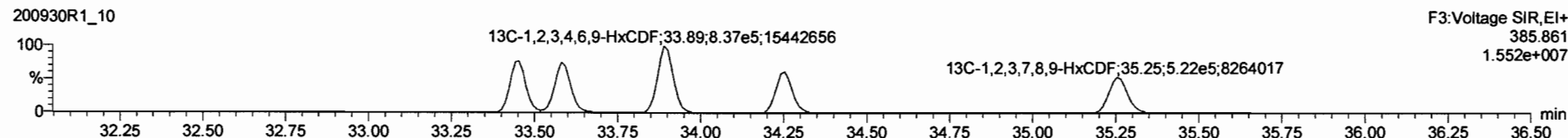
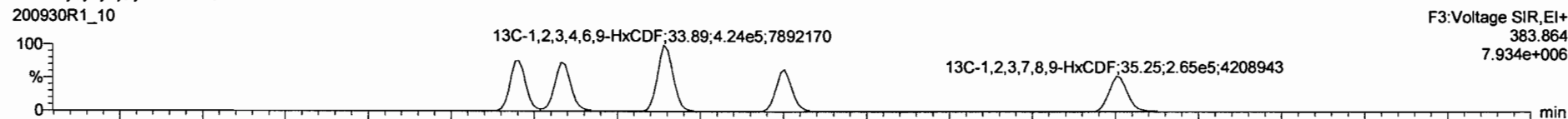
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Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_10, Date: 30-Sep-2020, Time: 16:44:34, ID: 2001995-02 PDI-068SC-A-07-08-200430 10, Description: PDI-068SC-A-07-08-200430

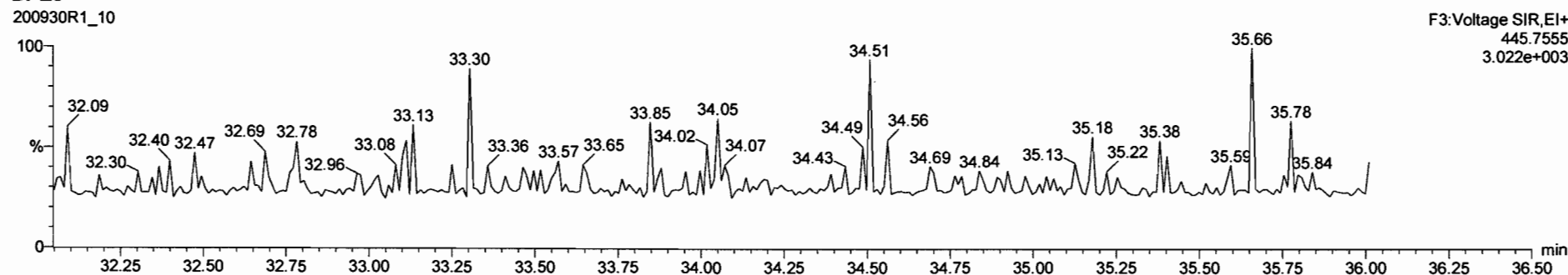
1,2,3,4,7,8-HxCDF

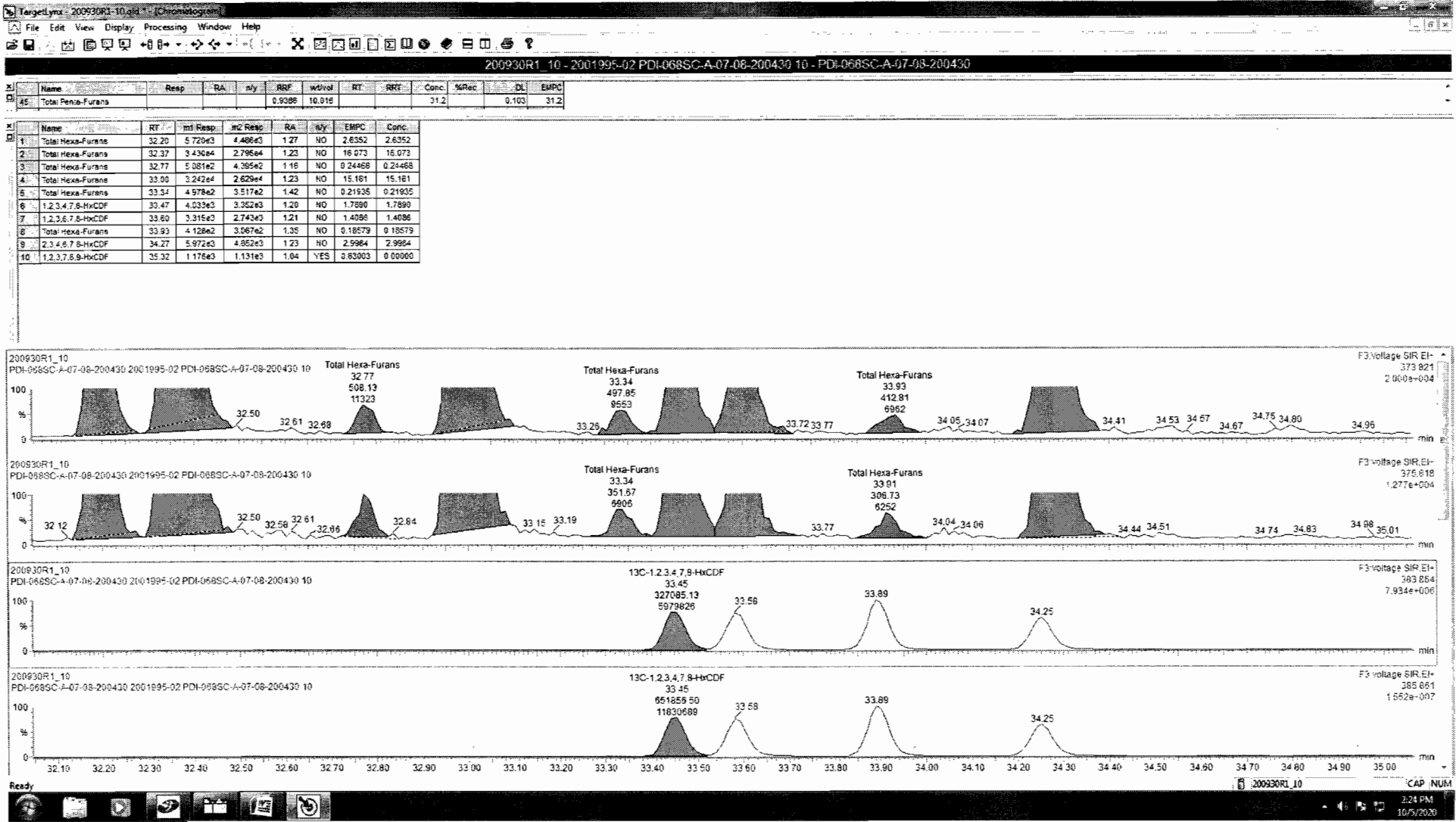


13C-1,2,3,4,7,8-HxCDF



DPE3

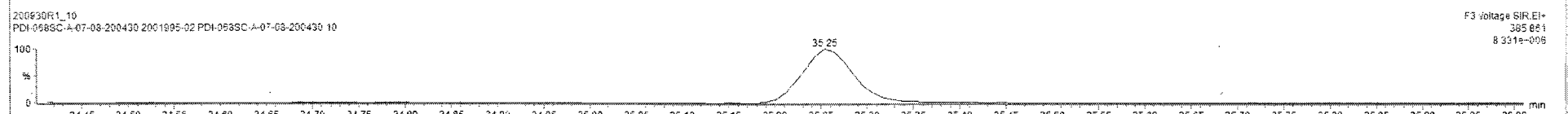
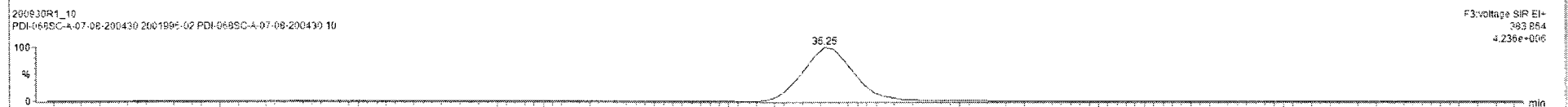
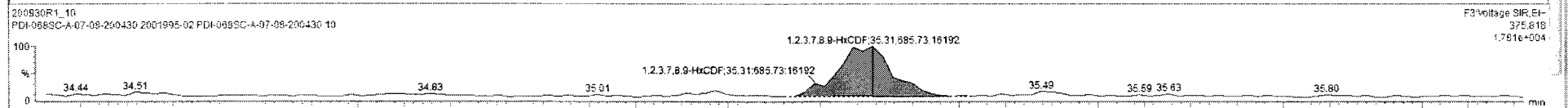
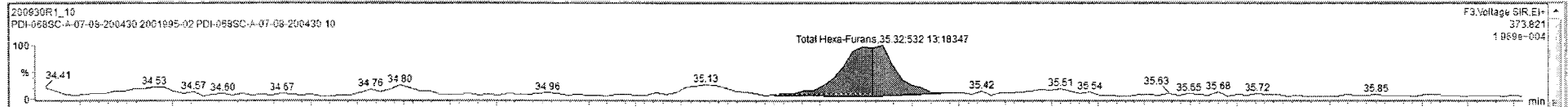




200930R1\_10 - 2001995-02 PDI-068SC-A-07-08-200430 10 - PDI-068SC-A-07-08-200430

Name	Resp	RA	inj	RRF	wt/wet	RT	RRT	Conc	%Rec	DL	EMPC
Total Hexa-Furans				0.6988	16.016			41.4		0.0012	41.4

Name	RT	inj Resp	inj2 Resp	RA	inj	EMPC	Conc
Total Hexa-Furans	32.20	5.720e3	4.486e3	1.27	NO	2.8352	2.8352
Total Hexa-Furans	32.57	3.430e4	2.795e4	1.23	NO	16.073	16.073
Total Hexa-Furans	32.77	5.081e2	4.395e2	1.16	NO	0.24468	0.24468
Total Hexa-Furans	33.00	3.242e4	2.629e4	1.23	NO	15.161	15.161
Total Hexa-Furans	33.34	4.978e2	3.517e2	1.42	NO	0.21935	0.21935
1,2,3,4,7,8-HxCDF	33.47	4.033e3	3.352e3	1.20	NO	1.7890	1.7890
1,2,3,6,7,8-HxCDF	33.60	3.315e3	2.743e3	1.21	NO	1.4086	1.4086
Total Hexa-Furans	33.93	4.128e2	3.067e2	1.35	NO	0.18579	0.18579
2,3,4,6,7,8-HxCDF	34.27	5.972e3	4.852e3	1.23	NO	2.5984	2.5984
1,2,3,7,8,9-HxCDF	35.30	7.353e2	6.857e2	1.07	NO	0.42129	0.42129
Total Hexa-Furans	35.32	5.321e2	4.226e2	1.26	NO	0.24652	0.24652



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Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

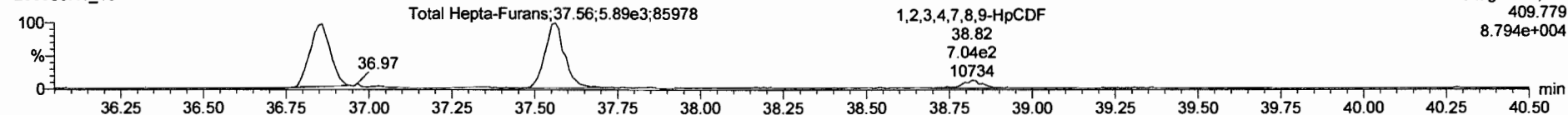
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**1,2,3,4,6,7,8-HpCDF**

200930R1\_10

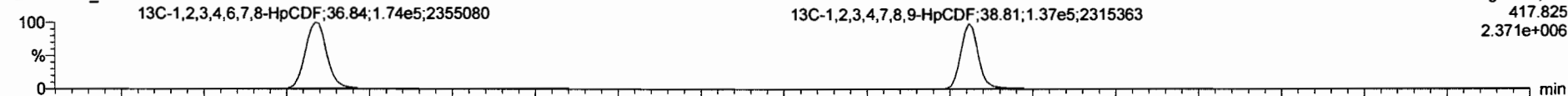


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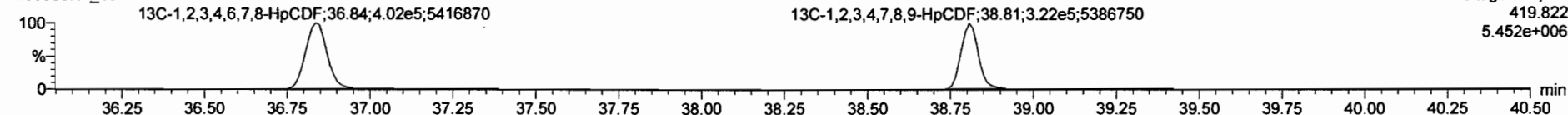


**13C-1,2,3,4,6,7,8-HpCDF**

200930R1\_10

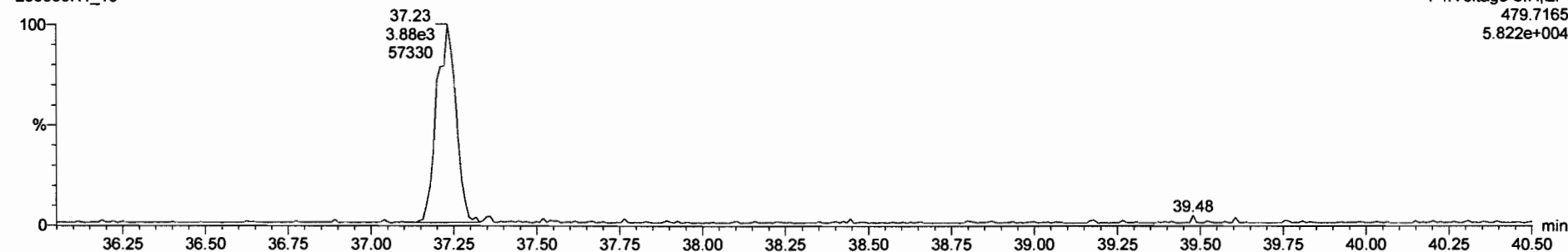


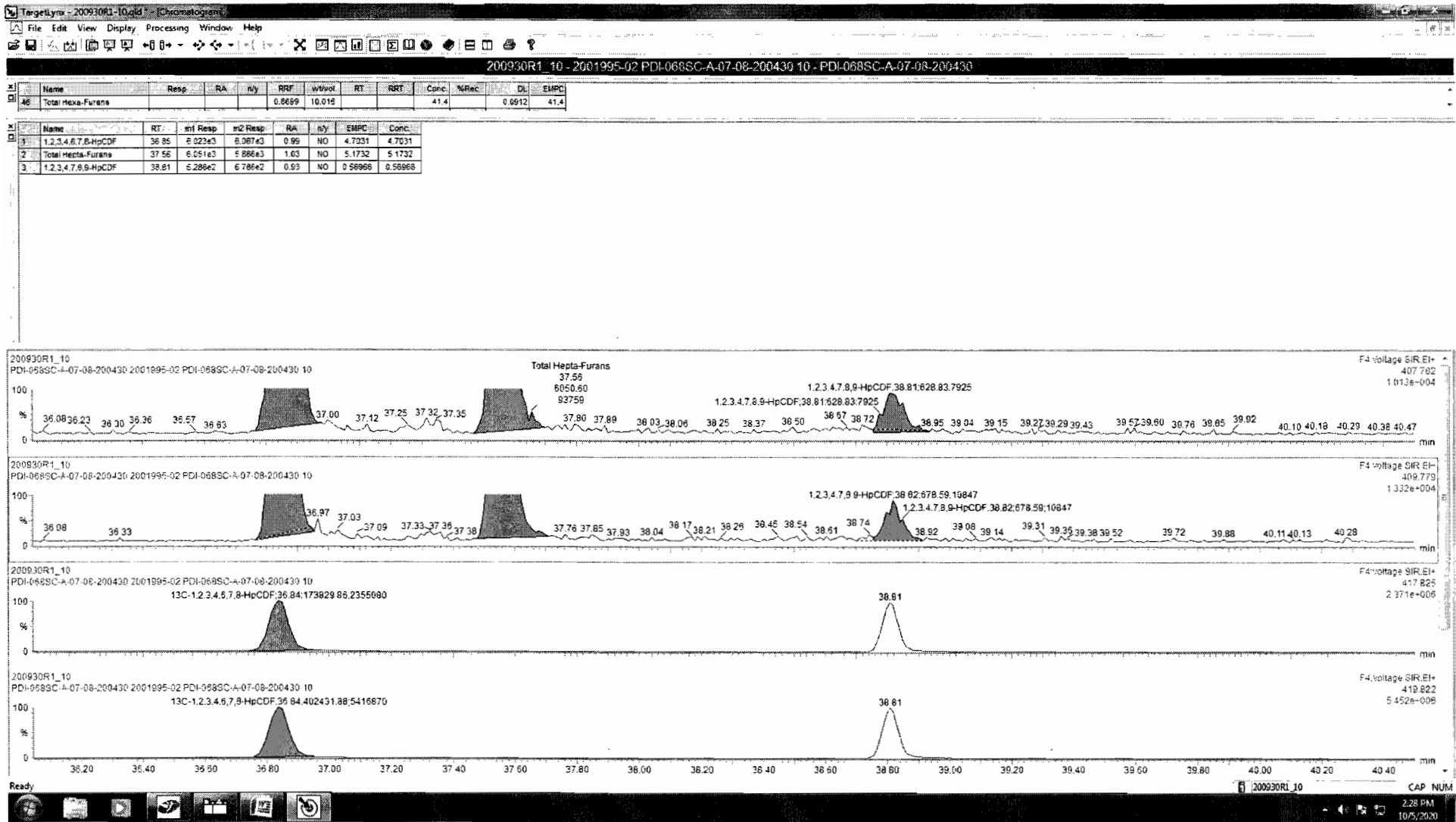
200930R1\_10



**DPE4**

200930R1\_10







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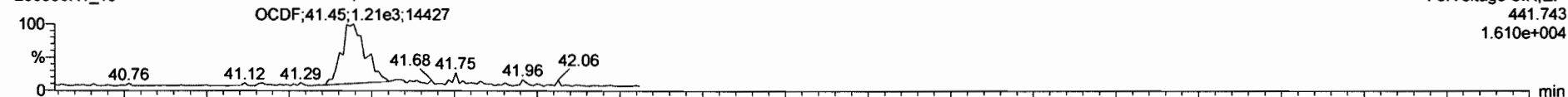
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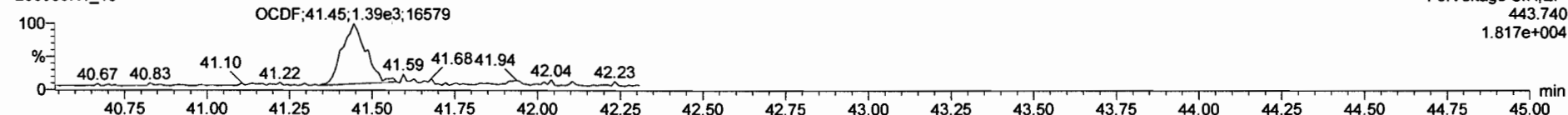
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**OCDF**

200930R1\_10

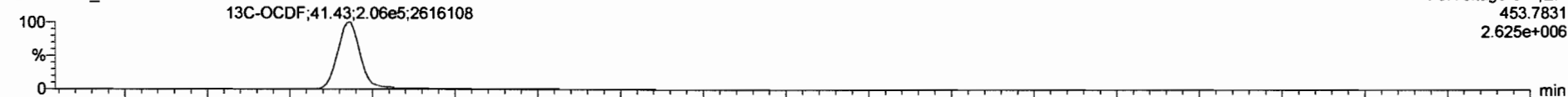


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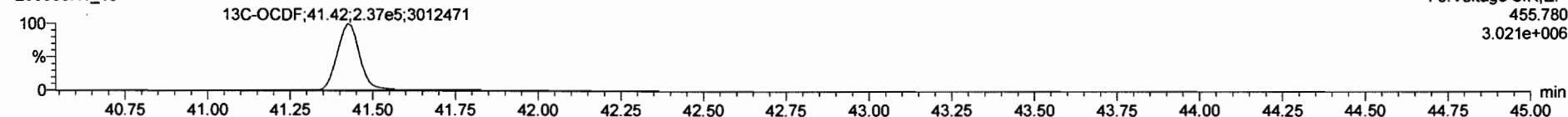


**13C-OCDF**

200930R1\_10

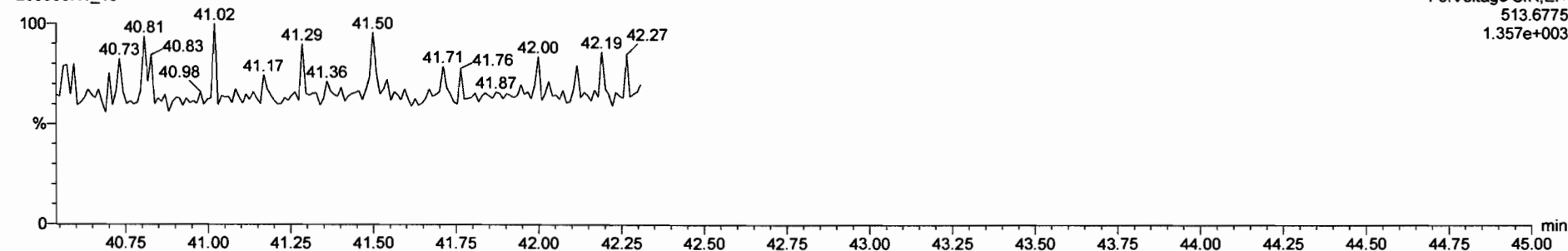


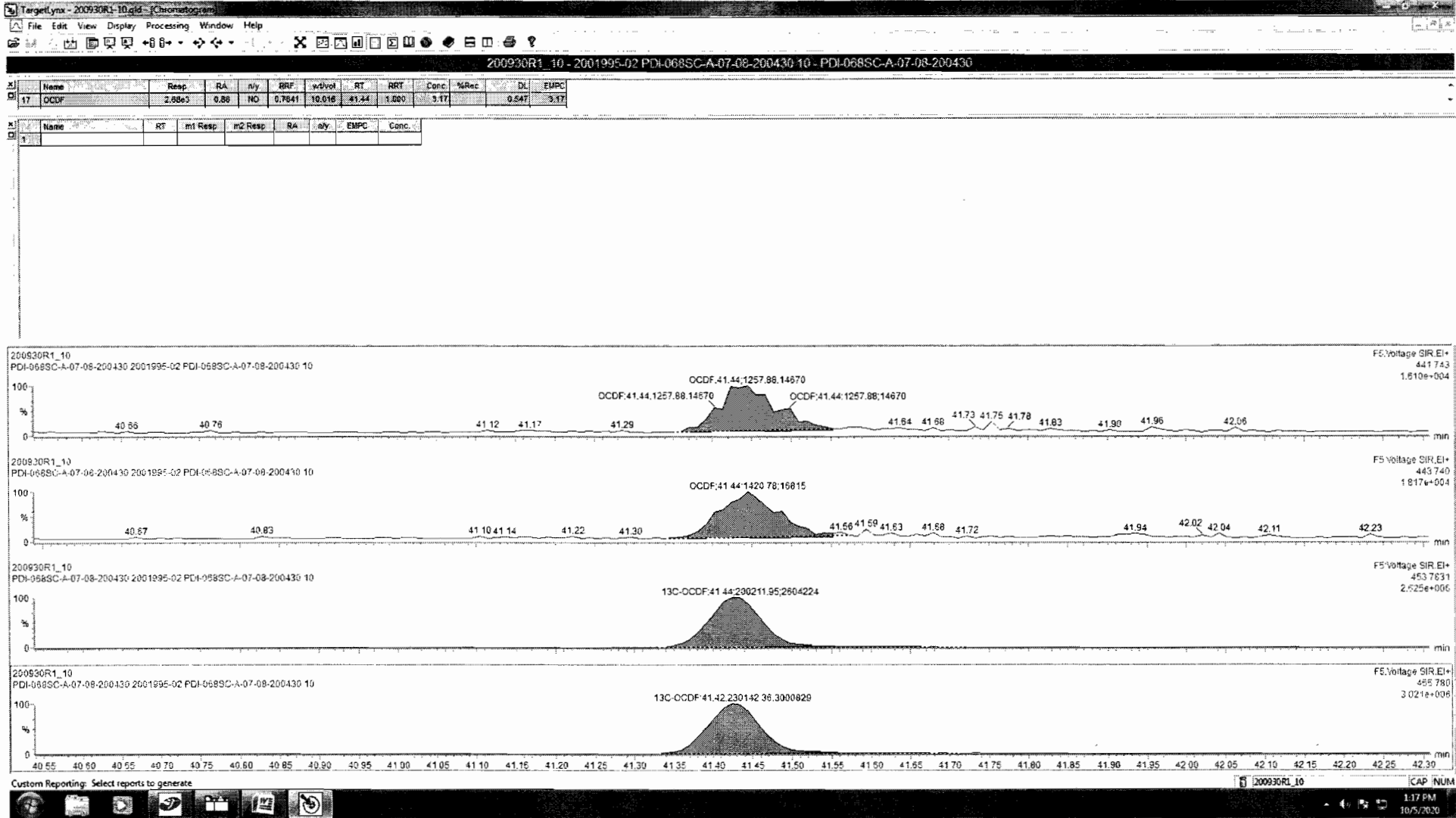
200930R1\_10



**DPE5**

200930R1\_10

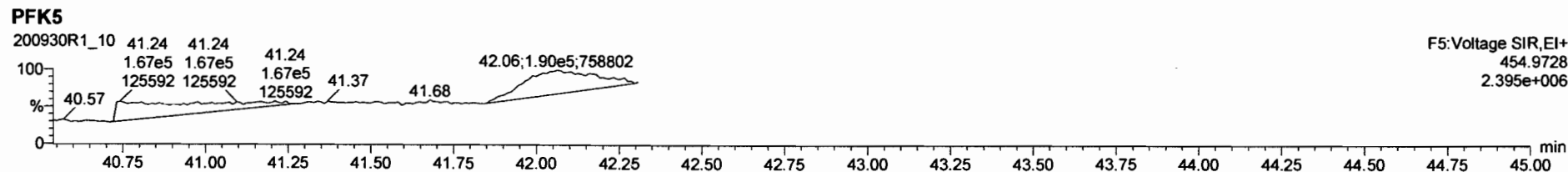
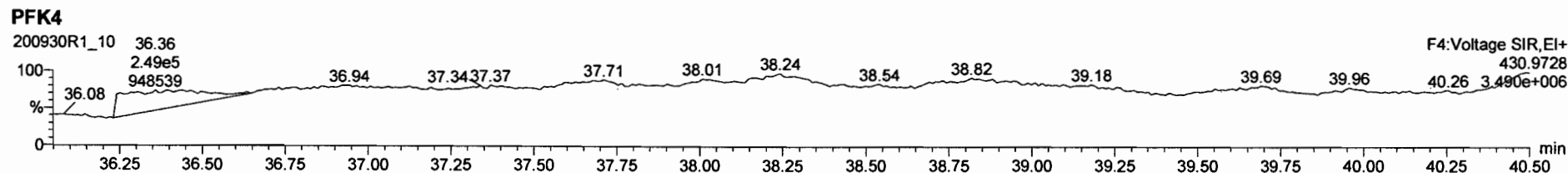
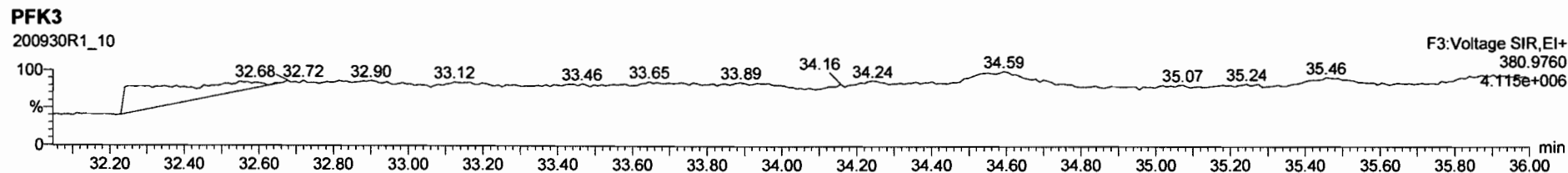
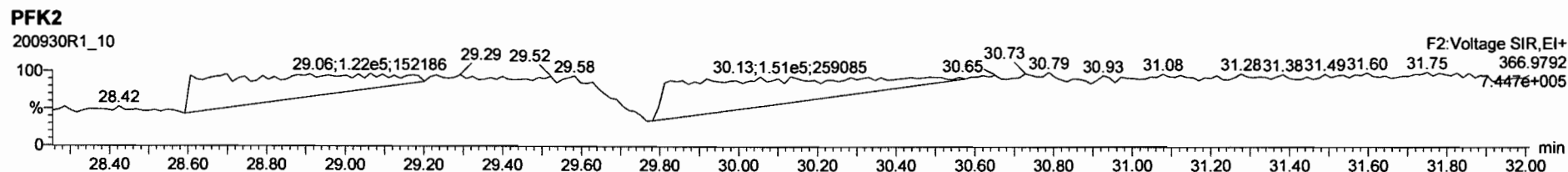
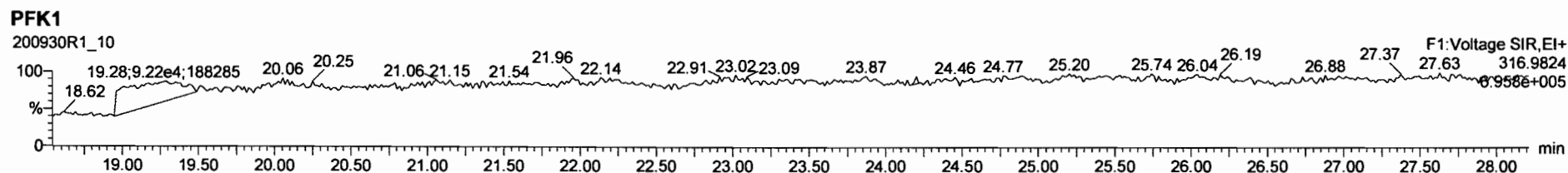




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Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_10, Date: 30-Sep-2020, Time: 16:44:34, ID: 2001995-02 PDI-068SC-A-07-08-200430 10, Description: PDI-068SC-A-07-08-200430



Dataset: U:\VG12.PRO\Results\200930R1\200930R1-11B.qld

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*GPB 10/22/2020*

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*C1 10/22/2020*

Name: 200930R1\_11, Date: 30-Sep-2020, Time: 17:28:14, ID: B0I0216-DUP1 Duplicate 10, 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	1.71e3	0.63	YES	1.02	10.028	26.463	26.45	1.001	1.001	0.47166		0.0775	0.418
2	2 1,2,3,7,8-PeCDD	5.14e3	0.66	NO	0.956	10.028	31.070	31.06	1.001	1.000	1.4411		0.0990	1.44
3	3 1,2,3,4,7,8-HxCDD	1.11e3	1.18	NO	1.00	10.028	34.369	34.38	1.000	1.001	0.36470		0.130	0.365
4	4 1,2,3,6,7,8-HxCDD	5.91e3	1.32	NO	0.888	10.028	34.476	34.50	1.000	1.001	1.8427		0.134	1.84
5	5 1,2,3,7,8,9-HxCDD	3.33e3	1.31	NO	0.909	10.028	34.763	34.76	1.000	1.000	0.96527		0.123	0.965
6	6 1,2,3,4,6,7,8-HpCDD	2.76e4	0.98	NO	0.832	10.028	38.201	38.20	1.000	1.000	12.081		0.284	12.1
7	7 OCDD	1.90e5	0.86	NO	0.862	10.028	41.126	41.14	1.000	1.000	191.05		1.46	191
8	8 2,3,7,8-TCDF	2.23e3	0.74	NO	0.735	10.028	25.770	25.77	1.000	1.001	0.75904		0.132	0.759
9	9 1,2,3,7,8-PeCDF	1.67e3	1.68	NO	0.939	10.028	29.833	29.83	1.001	1.001	0.36907		0.154	0.369
10	10 2,3,4,7,8-PeCDF	3.15e4	1.55	NO	1.05	10.028	30.865	30.88	1.000	1.000	6.7578		0.138	6.76
11	11 1,2,3,4,7,8-HxCDF	7.50e3	1.13	NO	0.842	10.028	33.443	33.45	1.000	1.000	2.3286		0.107	2.33
12	12 1,2,3,6,7,8-HxCDF	6.38e3	1.20	NO	0.894	10.028	33.592	33.59	1.000	1.000	1.8285		0.104	1.83
13	13 2,3,4,6,7,8-HxCDF	1.14e4	1.25	NO	0.870	10.028	34.274	34.27	1.001	1.001	3.5307		0.116	3.53
14	14 1,2,3,7,8,9-HxCDF	1.47e3	1.16	NO	0.855	10.028	35.275	35.29	1.001	1.001	0.49818		0.139	0.498
15	15 1,2,3,4,6,7,8-HpCDF	1.53e4	0.98	NO	0.891	10.028	36.874	36.85	1.001	1.000	6.1418		0.136	6.14
16	16 1,2,3,4,7,8,9-HpCDF	1.22e3	0.93	NO	1.00	10.028	38.808	38.82	1.000	1.000	0.58338		0.133	0.583
17	17 OCDF	3.60e3	0.85	NO	0.784	10.028	41.424	41.44	1.000	1.001	2.9458		0.206	2.95
18	18 13C-2,3,7,8-TCDD	7.11e5	0.78	NO	1.15	10.028	26.420	26.43	1.029	1.029	105.32	52.8	0.112	
19	19 13C-1,2,3,7,8-PeCDD	7.44e5	0.62	NO	0.887	10.028	31.012	31.05	1.207	1.209	143.15	71.8	0.223	
20	20 13C-1,2,3,4,7,8-HxCDD	6.08e5	1.29	NO	0.801	10.028	34.362	34.36	1.014	1.014	135.55	68.0	0.264	
21	21 13C-1,2,3,6,7,8-HxCDD	7.20e5	1.27	NO	0.892	10.028	34.491	34.48	1.018	1.017	144.26	72.3	0.237	
22	22 13C-1,2,3,7,8,9-HxCDD	7.58e5	1.29	NO	0.882	10.028	34.752	34.75	1.025	1.025	153.40	76.9	0.240	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.47e5	1.05	NO	0.719	10.028	38.185	38.19	1.127	1.127	135.99	68.2	0.365	
24	24 13C-OCDD	4.60e5	0.89	NO	0.563	10.028	41.113	41.13	1.213	1.213	146.11	36.6	0.391	
25	25 13C-2,3,7,8-TCDF	7.96e5	0.78	NO	1.01	10.028	25.763	25.76	1.003	1.003	96.603	48.4	0.145	
26	26 13C-1,2,3,7,8-PeCDF	9.61e5	1.60	NO	0.814	10.028	29.772	29.81	1.159	1.161	144.69	72.5	0.233	
27	27 13C-2,3,4,7,8-PeCDF	8.86e5	1.57	NO	0.768	10.028	30.809	30.86	1.200	1.202	141.38	70.9	0.247	
28	28 13C-1,2,3,4,7,8-HxCDF	7.63e5	0.50	NO	0.993	10.028	33.440	33.44	0.987	0.987	137.37	68.9	0.393	
29	29 13C-1,2,3,6,7,8-HxCDF	7.79e5	0.52	NO	0.990	10.028	33.583	33.58	0.991	0.991	140.56	70.5	0.394	
30	30 13C-2,3,4,6,7,8-HxCDF	7.43e5	0.51	NO	0.944	10.028	34.250	34.25	1.011	1.011	140.57	70.5	0.413	
31	31 13C-1,2,3,7,8,9-HxCDF	6.87e5	0.50	NO	0.842	10.028	35.267	35.25	1.041	1.040	145.75	73.1	0.464	

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-11B.qld

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#	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	5.57e5	0.43	NO	0.687	10.028	36.856	36.84	1.087	1.087	144.81	72.6	0.379	
33	13C-1,2,3,4,7,8,9-HpCDF	4.16e5	0.42	NO	0.555	10.028	38.805	38.81	1.145	1.145	134.04	67.2	0.469	
34	13C-OCDF	6.22e5	0.86	NO	0.608	10.028	41.394	41.42	1.221	1.222	182.71	45.8	0.602	
35	37Cl-2,3,7,8-TCDD	2.65e5			1.18	10.028	26.451	26.45	1.030	1.030	38.342	48.1	0.0344	
36	13C-1,2,3,4-TCDD	1.17e6	0.78	NO	1.00	10.028	25.740	25.68	1.000	1.000	199.45	100	0.130	
37	13C-1,2,3,4-TCDF	1.63e6	0.79	NO	1.00	10.028	24.310	24.23	1.000	1.000	199.45	100	0.146	
38	13C-1,2,3,4,6,9-HxCDF	1.12e6	0.50	NO	1.00	10.028	33.920	33.89	1.000	1.000	199.45	100	0.390	
39	Total Tetra-Dioxins				1.02	10.028	24.620		0.000		5.9703		0.0775	7.01
40	Total Penta-Dioxins				0.956	10.028	29.960		0.000		11.728		0.0990	14.7
41	Total Hexa-Dioxins				0.888	10.028	33.635		0.000		21.821		0.135	21.8
42	Total Hepta-Dioxins				0.832	10.028	37.640		0.000		30.135		0.284	30.1
43	Total Tetra-Furans				0.735	10.028	23.610		0.000		50.433		0.132	51.0
44	1st Func. Penta-Furans				0.939	10.028	27.230		0.000		50.300		0.0350	50.3
45	Total Penta-Furans				0.939	10.028	29.275		0.000		36.646		0.155	36.8
46	Total Hexa-Furans				0.870	10.028	33.555		0.000		49.869		0.115	49.9
47	Total Hepta-Furans				0.891	10.028	37.835		0.000		12.463		0.141	12.5

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Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\ddbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_11, Date: 30-Sep-2020, Time: 17:28:14, ID: B0I0216-DUP1 Duplicate 10, Description: Duplicate

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.75	1.896e4	2.486e4	1.467e3	1.898e3	0.77	NO	3.365e3	0.92910	0.92910	0.0775
2	Total Tetra-Dioxins	23.09	1.043e4	1.559e4	9.703e2	1.237e3	0.78	NO	2.208e3	0.60957	0.60957	0.0775
3	Total Tetra-Dioxins	23.62	6.722e3	8.128e3	5.579e2	6.215e2	0.90	YES	0.000e0	0.00000	0.30376	0.0775
4	Total Tetra-Dioxins	24.41	4.514e3	5.972e3	3.109e2	4.290e2	0.72	NO	7.399e2	0.20430	0.20430	0.0775
5	Total Tetra-Dioxins	24.64	2.366e4	2.969e4	1.777e3	2.325e3	0.76	NO	4.102e3	1.1325	1.1325	0.0775
6	Total Tetra-Dioxins	24.84	2.763e4	2.857e4	1.658e3	2.128e3	0.78	NO	3.786e3	1.0453	1.0453	0.0775
7	Total Tetra-Dioxins	25.02	5.637e3	7.365e3	4.736e2	5.614e2	0.84	NO	1.035e3	0.28578	0.28578	0.0775
8	Total Tetra-Dioxins	25.32	6.766e3	8.910e3	3.361e2	4.311e2	0.78	NO	7.673e2	0.21185	0.21185	0.0775
9	Total Tetra-Dioxins	25.41	1.173e4	1.427e4	7.482e2	1.035e3	0.72	NO	1.783e3	0.49234	0.49234	0.0775
10	Total Tetra-Dioxins	25.79	4.523e3	5.520e3	3.211e2	3.480e2	0.92	YES	0.000e0	0.00000	0.17007	0.0775
11	Total Tetra-Dioxins	26.16	1.062e4	1.463e4	1.075e3	1.321e3	0.81	NO	2.396e3	0.66165	0.66165	0.0775
12	2,3,7,8-TCDD	26.45	1.050e4	1.592e4	6.588e2	1.049e3	0.63	YES	1.708e3	0.00000	0.41816	0.0775
13	Total Tetra-Dioxins	26.76	9.852e3	1.342e4	6.559e2	7.854e2	0.84	NO	1.441e3	0.39795	0.39795	0.0775
14	Total Tetra-Dioxins	27.33	5.346e3	6.084e3	2.951e2	3.110e2	0.95	YES	0.000e0	0.00000	0.15197	0.0775

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.85	8.270e4	1.221e5	6.376e3	9.665e3	0.66	NO	1.604e4	4.4992	4.4992	0.0990
2	Total Penta-Dioxins	29.31	8.816e3	1.746e4	5.518e2	1.002e3	0.55	NO	1.553e3	0.43571	0.43571	0.0990
3	Total Penta-Dioxins	29.83	6.233e4	9.334e4	3.344e3	5.051e3	0.66	NO	8.395e3	2.3546	2.3546	0.0990
4	Total Penta-Dioxins	30.00	5.325e4	7.926e4	2.593e3	4.086e3	0.63	NO	0.000e0	0.00000	1.8735	0.0990
5	Total Penta-Dioxins	30.03	3.130e4	5.611e4	1.559e3	2.518e3	0.62	NO	0.000e0	0.00000	1.1435	0.0990
6	Total Penta-Dioxins	30.30	4.059e4	5.450e4	2.694e3	3.995e3	0.67	NO	6.689e3	1.8762	1.8762	0.0990
7	Total Penta-Dioxins	30.62	6.543e3	1.080e4	3.549e2	6.171e2	0.58	NO	9.719e2	0.27262	0.27262	0.0990
8	1,2,3,7,8-PeCDD	31.06	3.929e4	6.248e4	2.048e3	3.090e3	0.66	NO	5.138e3	1.4411	1.4411	0.0990
9	Total Penta-Dioxins	31.16	8.174e3	1.170e4	3.823e2	5.322e2	0.72	NO	9.145e2	0.25651	0.25651	0.0990
10	Total Penta-Dioxins	31.41	1.673e4	2.884e4	7.967e2	1.314e3	0.61	NO	2.111e3	0.59205	0.59205	0.0990

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**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	2.449e5	1.979e5	1.127e4	9.692e3	1.16	NO	2.096e4	6.7728	6.7728	0.135
2	Total Hexa-Dioxins	33.33	3.911e4	3.514e4	2.156e3	1.707e3	1.26	NO	3.863e3	1.2480	1.2480	0.135
3	Total Hexa-Dioxins	33.61	2.554e5	2.031e5	1.718e4	1.391e4	1.23	NO	3.109e4	10.043	10.043	0.135
4	Total Hexa-Dioxins	33.69	1.344e4	1.132e4	5.801e2	4.299e2	1.35	NO	1.010e3	0.32631	0.32631	0.135
5	1,2,3,4,7,8-HxCDD	34.38	1.023e4	8.758e3	6.026e2	5.110e2	1.18	NO	1.114e3	0.36470	0.36470	0.130
6	1,2,3,6,7,8-HxCDD	34.50	5.526e4	4.588e4	3.361e3	2.547e3	1.32	NO	5.908e3	1.8427	1.8427	0.134
7	Total Hexa-Dioxins	34.64	7.763e3	8.241e3	4.589e2	3.396e2	1.35	NO	7.985e2	0.25798	0.25798	0.135
8	1,2,3,7,8,9-HxCDD	34.76	3.339e4	2.665e4	1.890e3	1.444e3	1.31	NO	3.334e3	0.96527	0.96527	0.123

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.23	2.558e5	2.579e5	2.067e4	2.053e4	1.01	NO	4.120e4	18.055	18.055	0.284
2	1,2,3,4,6,7,8-HpCDD	38.20	2.246e5	2.178e5	1.365e4	1.392e4	0.98	NO	2.757e4	12.081	12.081	0.284

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.53	4.760e3	7.643e3	4.576e2	6.392e2	0.72	NO	1.097e3	0.37387	0.37387	0.132
2	Total Tetra-Furans	21.07	4.037e4	5.874e4	3.642e3	4.901e3	0.74	NO	8.543e3	2.9122	2.9122	0.132
3	Total Tetra-Furans	21.90	1.784e5	2.309e5	1.619e4	2.195e4	0.74	NO	3.814e4	13.000	13.000	0.132
4	Total Tetra-Furans	22.25	2.172e4	2.228e4	1.664e3	2.272e3	0.73	NO	3.936e3	1.3419	1.3419	0.132
5	Total Tetra-Furans	22.36	7.478e3	1.138e4	7.181e2	8.258e2	0.87	NO	1.544e3	0.52626	0.52626	0.132
6	Total Tetra-Furans	22.48	7.245e3	9.542e3	4.293e2	6.229e2	0.69	NO	1.052e3	0.35867	0.35867	0.132
7	Total Tetra-Furans	22.79	6.816e4	8.926e4	6.023e3	8.397e3	0.72	NO	1.442e4	4.9157	4.9157	0.132
8	Total Tetra-Furans	23.26	1.098e5	1.362e5	8.736e3	1.140e4	0.77	NO	2.013e4	6.8625	6.8625	0.132
9	Total Tetra-Furans	23.33	6.438e3	7.623e3	4.207e2	5.199e2	0.81	NO	9.406e2	0.32062	0.32062	0.132
10	Total Tetra-Furans	23.57	9.549e3	1.661e4	7.928e2	1.118e3	0.71	NO	1.911e3	0.65137	0.65137	0.132
11	Total Tetra-Furans	24.11	2.080e4	3.136e4	1.581e3	2.338e3	0.68	NO	3.919e3	1.3360	1.3360	0.132
12	Total Tetra-Furans	24.29	6.644e3	8.645e3	3.359e2	3.852e2	0.87	NO	7.212e2	0.24583	0.24583	0.132
13	Total Tetra-Furans	24.36	1.069e5	1.535e5	8.341e3	1.199e4	0.70	NO	2.034e4	6.9321	6.9321	0.132
14	Total Tetra-Furans	24.78	2.408e4	3.217e4	1.762e3	2.456e3	0.72	NO	4.218e3	1.4377	1.4377	0.132
15	Total Tetra-Furans	25.10	7.907e3	1.106e4	5.219e2	6.615e2	0.79	NO	1.183e3	0.40342	0.40342	0.132
16	Total Tetra-Furans	25.20	8.747e3	1.154e4	7.026e2	9.075e2	0.77	NO	1.610e3	0.54884	0.54884	0.132
17	Total Tetra-Furans	25.29	3.857e3	6.813e3	2.370e2	3.206e2	0.74	NO	5.576e2	0.19008	0.19008	0.132
18	Total Tetra-Furans	25.49	1.029e4	1.223e4	5.485e2	7.294e2	0.75	NO	1.278e3	0.43561	0.43561	0.132
19	Total Tetra-Furans	25.64	1.632e4	2.125e4	1.196e3	1.428e3	0.84	NO	2.625e3	0.89469	0.89469	0.132
20	2,3,7,8-TCDF	25.77	1.251e4	2.063e4	9.455e2	1.281e3	0.74	NO	2.227e3	0.75904	0.75904	0.132
21	Total Tetra-Furans	26.00	4.485e3	7.434e3	2.554e2	3.723e2	0.69	NO	6.276e2	0.21394	0.21394	0.132
22	Total Tetra-Furans	26.06	1.121e4	1.512e4	6.974e2	8.438e2	0.83	NO	0.000e0	0.00000	0.52538	0.132
23	Total Tetra-Furans	26.34	3.432e3	7.162e3	2.626e2	3.787e2	0.69	NO	6.413e2	0.21862	0.21862	0.132
24	Total Tetra-Furans	26.43	1.190e4	1.443e4	6.285e2	9.372e2	0.67	NO	1.566e3	0.53371	0.53371	0.132
25	Total Tetra-Furans	26.92	2.737e4	3.668e4	1.713e3	2.065e3	0.83	NO	3.778e3	1.2878	1.2878	0.132
26	Total Tetra-Furans	27.08	3.092e4	4.071e4	1.724e3	2.408e3	0.72	NO	4.132e3	1.4087	1.4087	0.132
27	Total Tetra-Furans	27.27	3.565e4	5.060e4	2.473e3	3.289e3	0.75	NO	5.762e3	1.9640	1.9640	0.132
28	Total Tetra-Furans	27.61	6.283e3	7.658e3	4.656e2	5.888e2	0.79	NO	1.054e3	0.35942	0.35942	0.132



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Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.24	2.321e6	1.481e6	1.349e5	8.376e4	1.61	NO	2.186e5	50.300	50.300	0.0350

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.68	6.959e4	4.068e4	4.338e3	2.692e3	1.61	NO	7.030e3	1.6175	1.6175	0.155
2	Total Penta-Furans	28.85	5.593e5	3.418e5	4.336e4	2.662e4	1.63	NO	6.998e4	16.102	16.102	0.155
3	Total Penta-Furans	29.20	6.187e3	6.717e3	3.717e2	3.835e2	0.97	YES	0.000e0	0.00000	0.14070	0.155
4	Total Penta-Furans	29.31	8.234e3	9.324e3	6.246e2	4.315e2	1.45	NO	1.056e3	0.24298	0.24298	0.155
5	Total Penta-Furans	29.48	3.919e5	2.328e5	2.137e4	1.344e4	1.59	NO	3.481e4	8.0099	8.0099	0.155
6	Total Penta-Furans	29.61	1.435e4	1.121e4	8.228e2	6.005e2	1.37	NO	1.423e3	0.32747	0.32747	0.155
7	1,2,3,7,8-PeCDF	29.83	2.008e4	9.714e3	1.046e3	6.233e2	1.68	NO	1.670e3	0.36907	0.36907	0.154
8	Total Penta-Furans	30.07	1.198e5	7.518e4	7.088e3	4.211e3	1.68	NO	1.130e4	2.5998	2.5998	0.155
9	Total Penta-Furans	30.70	2.275e4	1.766e4	1.119e3	7.426e2	1.51	NO	1.861e3	0.42828	0.42828	0.155
10	2,3,4,7,8-PeCDF	30.88	3.850e5	2.628e5	1.915e4	1.235e4	1.55	NO	3.150e4	6.7578	6.7578	0.138
11	Total Penta-Furans	31.66	1.045e4	7.934e3	5.016e2	3.281e2	1.53	NO	8.297e2	0.19091	0.19091	0.155

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.19	1.182e5	9.823e4	5.636e3	4.709e3	1.20	NO	1.034e4	3.1927	3.1927	0.115
2	Total Hexa-Furans	32.36	7.663e5	5.999e5	3.669e4	2.985e4	1.23	NO	6.654e4	20.537	20.537	0.115
3	Total Hexa-Furans	32.77	1.190e4	8.617e3	5.625e2	4.295e2	1.31	NO	9.920e2	0.30617	0.30617	0.115
4	Total Hexa-Furans	32.99	6.144e5	5.359e5	3.047e4	2.496e4	1.22	NO	5.542e4	17.106	17.106	0.115
5	Total Hexa-Furans	33.33	9.144e3	9.723e3	4.661e2	4.310e2	1.08	NO	8.971e2	0.27686	0.27686	0.115
6	1,2,3,4,7,8-HxCDF	33.45	7.488e4	6.572e4	3.987e3	3.515e3	1.13	NO	7.502e3	2.3286	2.3286	0.107
7	1,2,3,6,7,8-HxCDF	33.59	6.142e4	5.145e4	3.479e3	2.903e3	1.20	NO	6.382e3	1.8285	1.8285	0.104
8	2,3,4,6,7,8-HxCDF	34.27	9.537e4	7.840e4	6.358e3	5.082e3	1.25	NO	1.144e4	3.5307	3.5307	0.116
9	1,2,3,7,8,9-HxCDF	35.29	1.889e4	1.405e4	7.872e2	6.794e2	1.16	NO	1.467e3	0.49818	0.49818	0.139
10	Total Hexa-Furans	35.31	1.817e4	1.342e4	4.675e2	3.876e2	1.21	NO	8.551e2	0.26391	0.26391	0.115

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Printed: Thursday, October 22, 2020 07:23:45 Pacific Daylight Time

Name: 200930R1\_11, Date: 30-Sep-2020, Time: 17:28:14, ID: B0I0216-DUP1 Duplicate 10, Description: Duplicate

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	36.85	1.059e5	9.820e4	7.551e3	7.717e3	0.98	NO	1.527e4	6.1418	6.1418	0.136
2	Total Hepta-Furans	37.56	9.026e4	8.629e4	6.325e3	6.138e3	1.03	NO	1.246e4	5.7382	5.7382	0.141
3	1,2,3,4,7,8,9-HpCDF	38.82	1.062e4	1.050e4	5.851e2	6.318e2	0.93	NO	1.217e3	0.58338	0.58338	0.133

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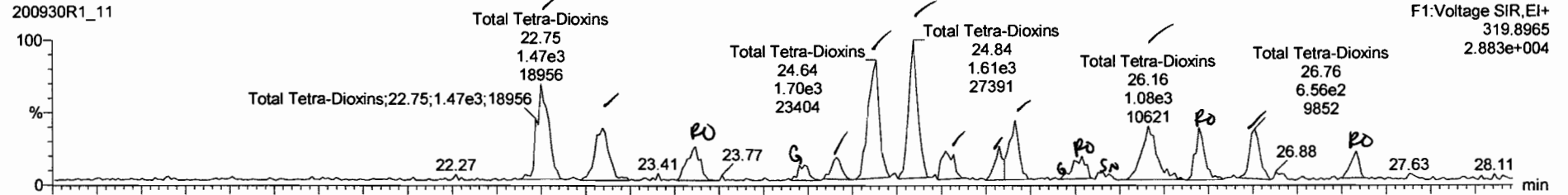
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Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

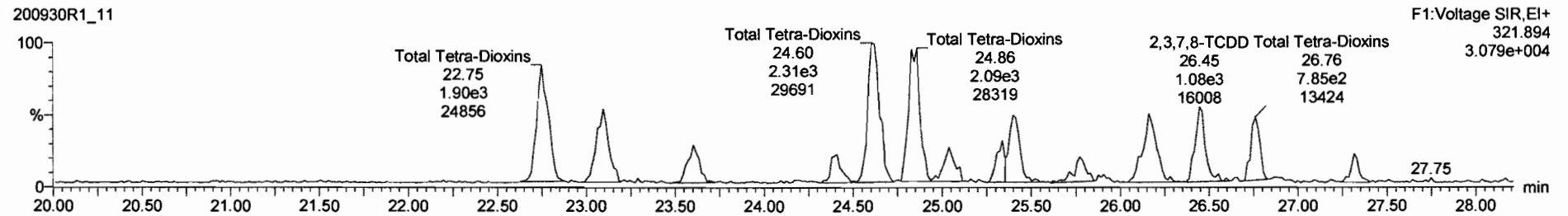
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**2,3,7,8-TCDD**

200930R1\_11

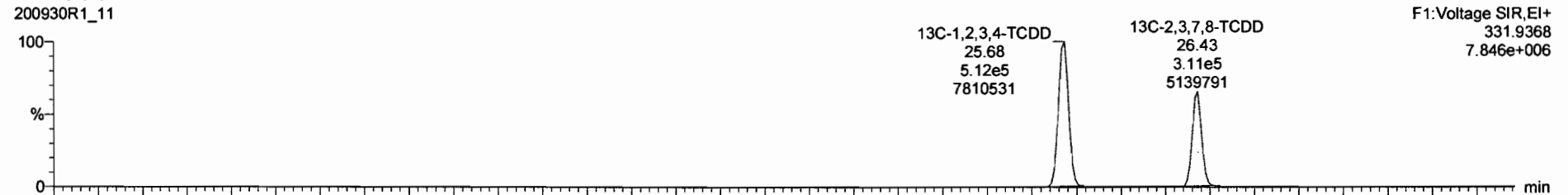


200930R1\_11

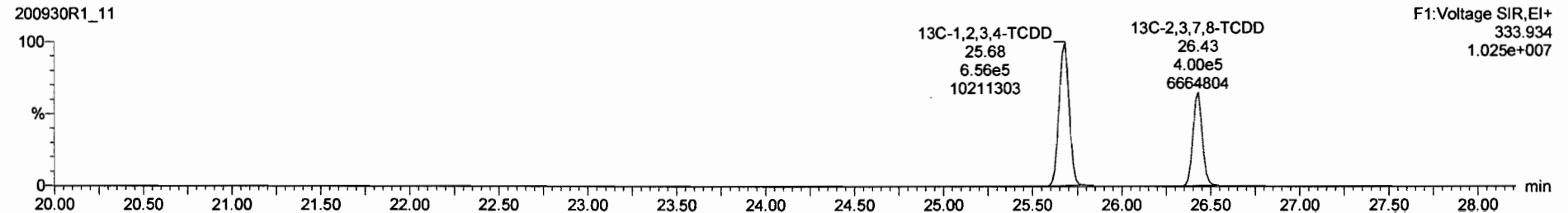


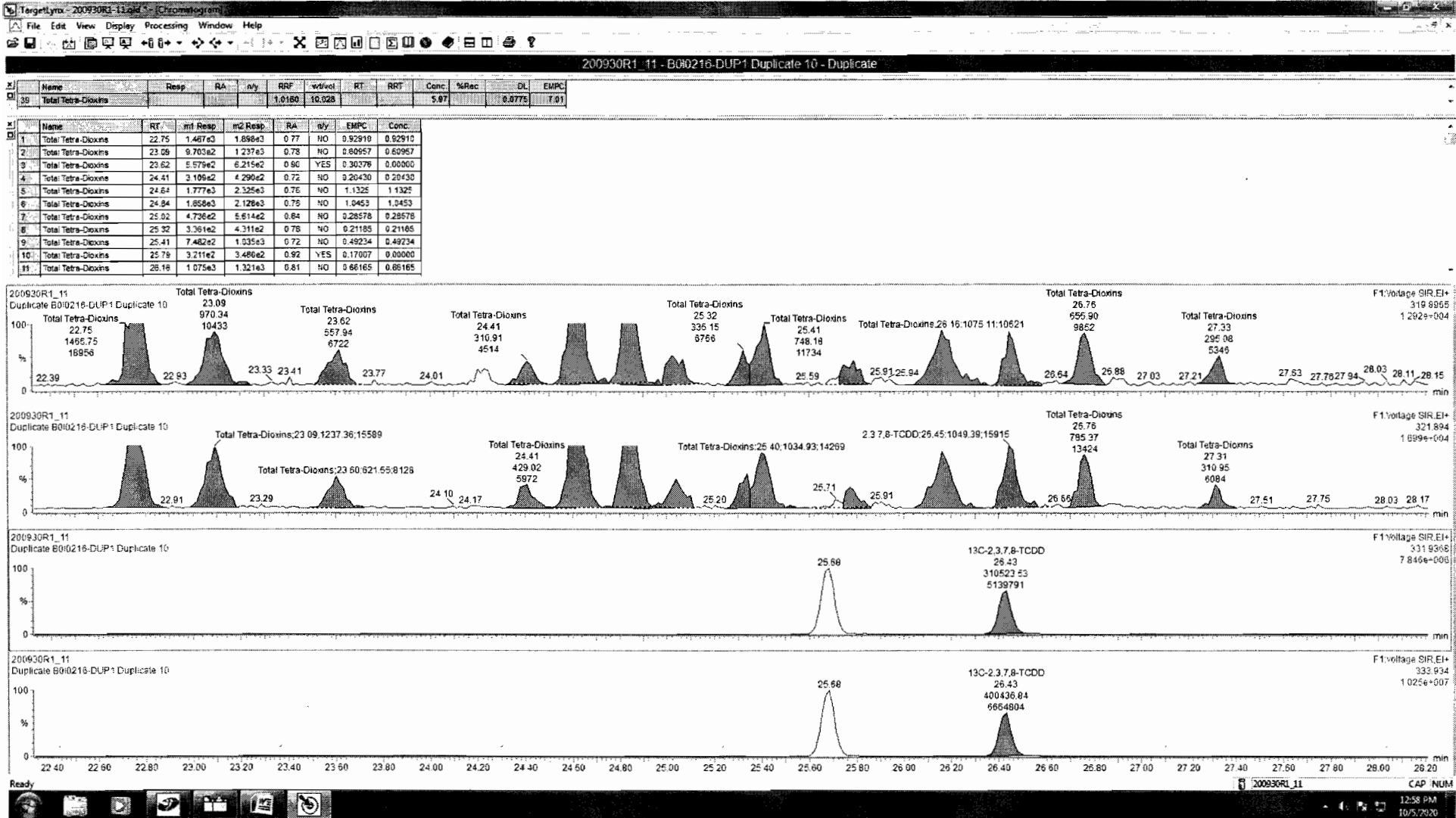
**13C-2,3,7,8-TCDD**

200930R1\_11



200930R1\_11





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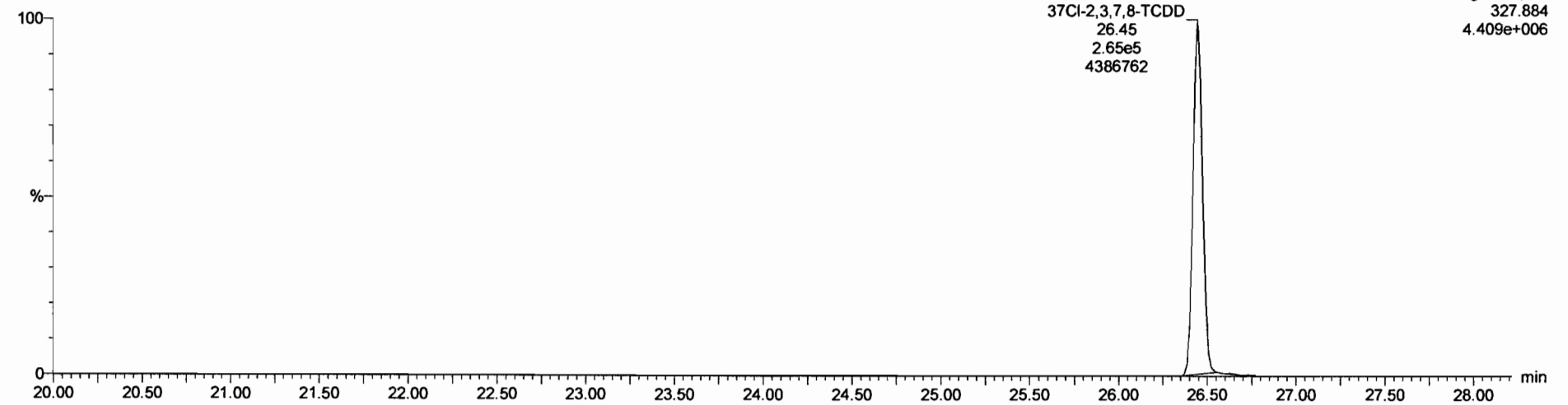
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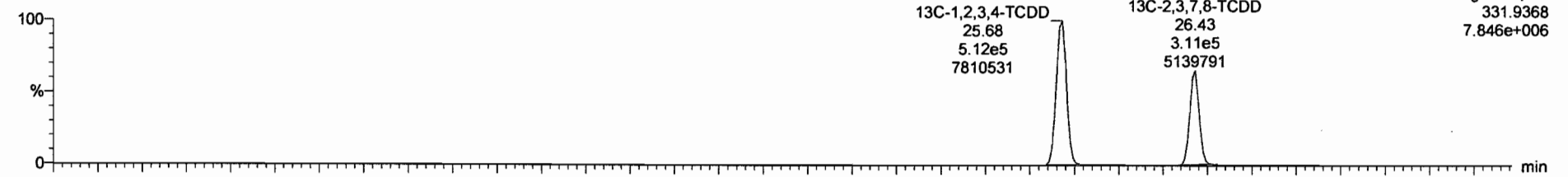
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200930R1\_11

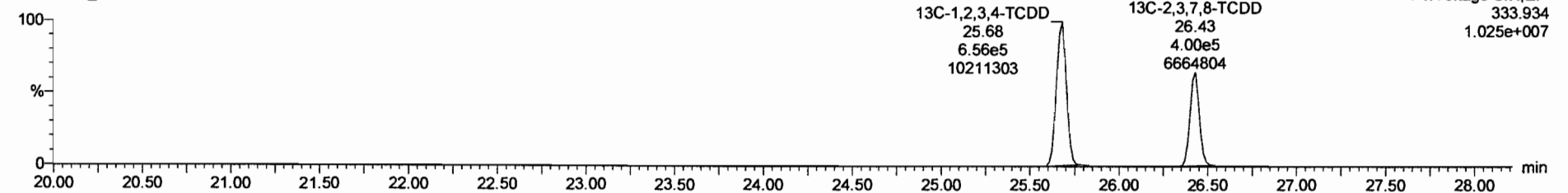


**13C-1,2,3,4-TCDD**

200930R1\_11



200930R1\_11



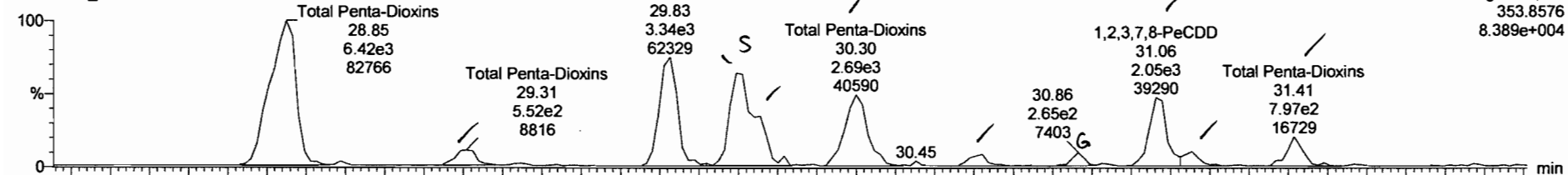
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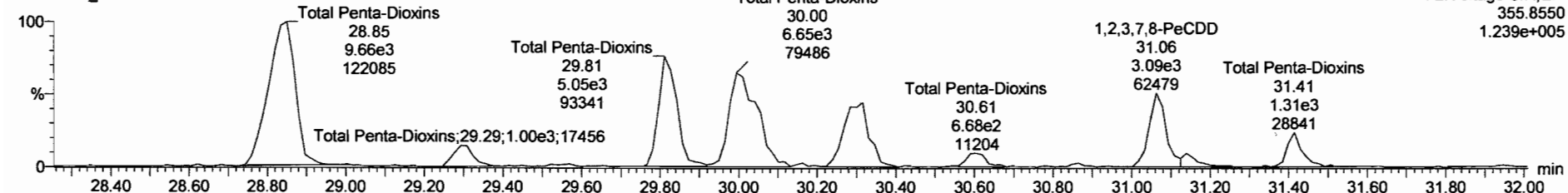
1,2,3,7,8-PeCDD

200930R1\_11



F2: Voltage SIR, EI+  
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8.389e+004

200930R1\_11



F2: Voltage SIR, EI+  
355.8550  
1.239e+005

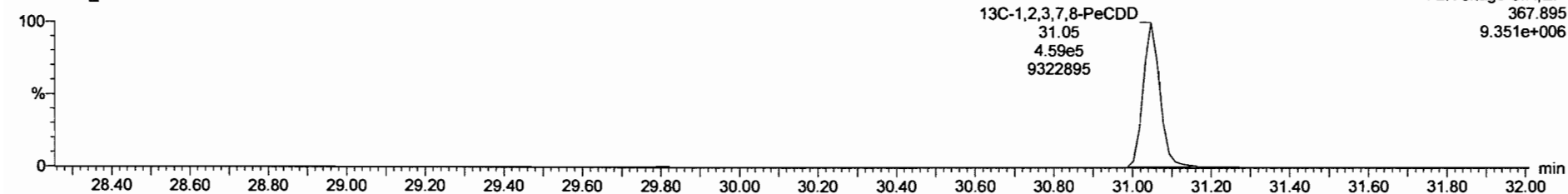
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200930R1\_11

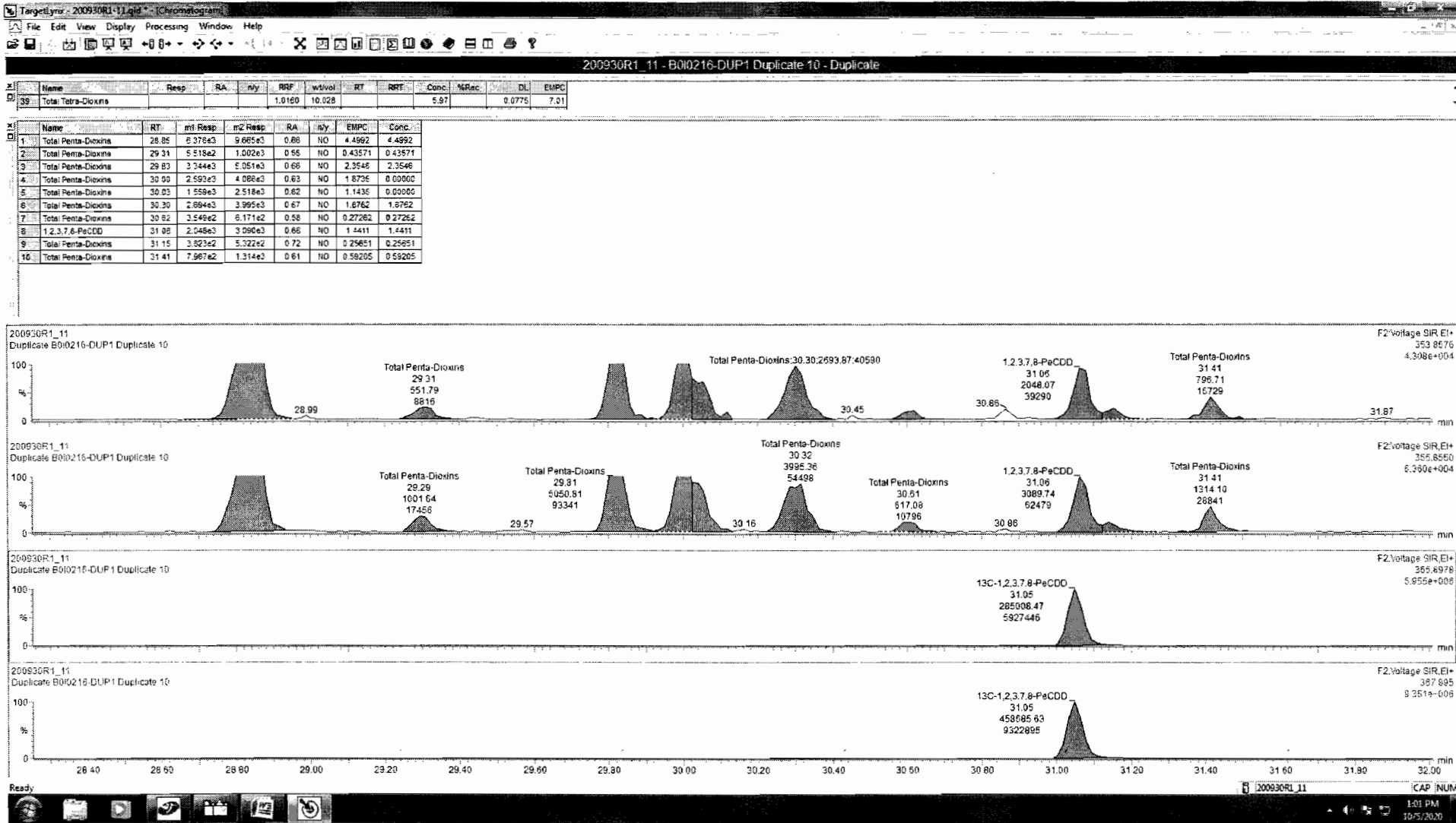


F2: Voltage SIR, EI+  
365.8978  
5.955e+006

200930R1\_11



F2: Voltage SIR, EI+  
367.895  
9.351e+006

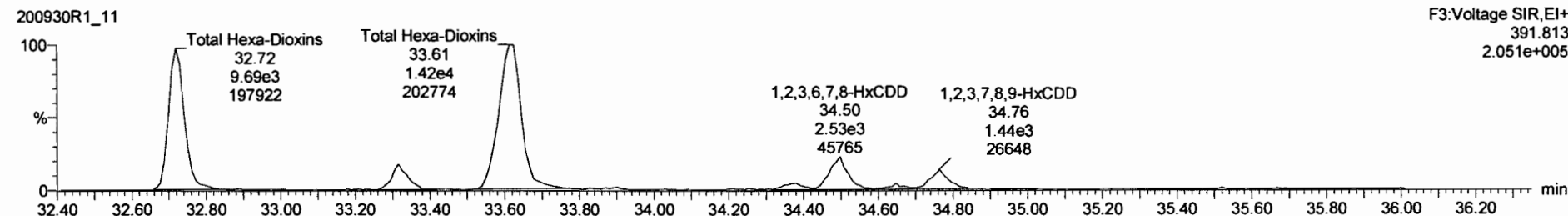
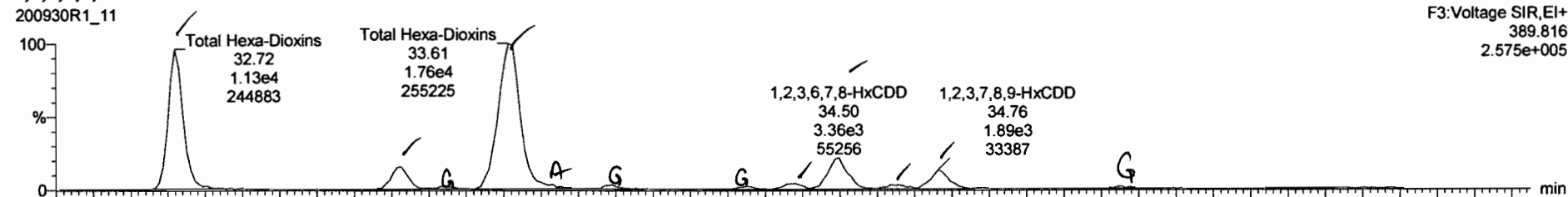


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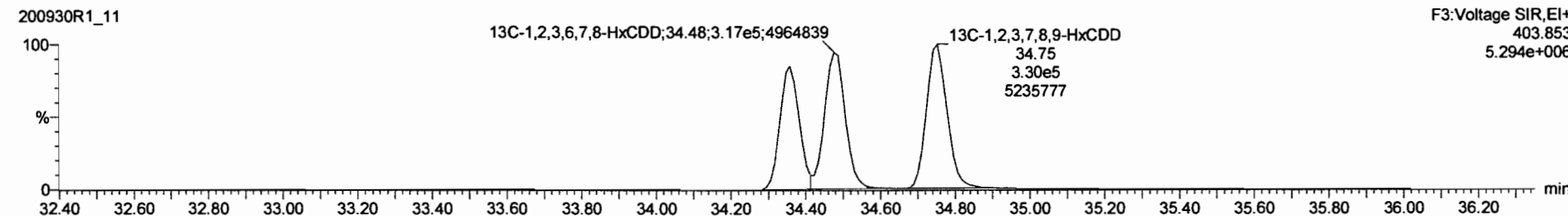
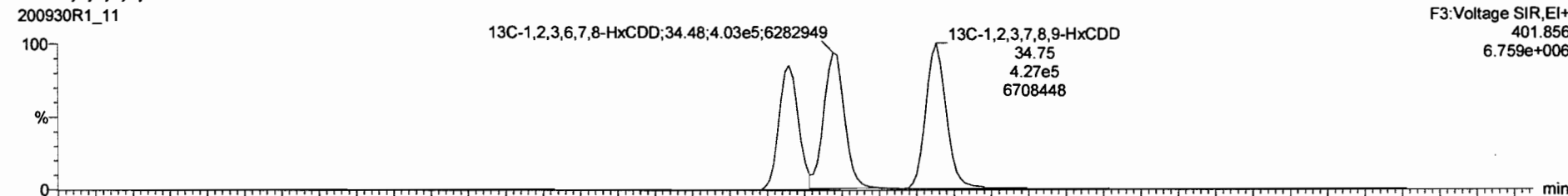
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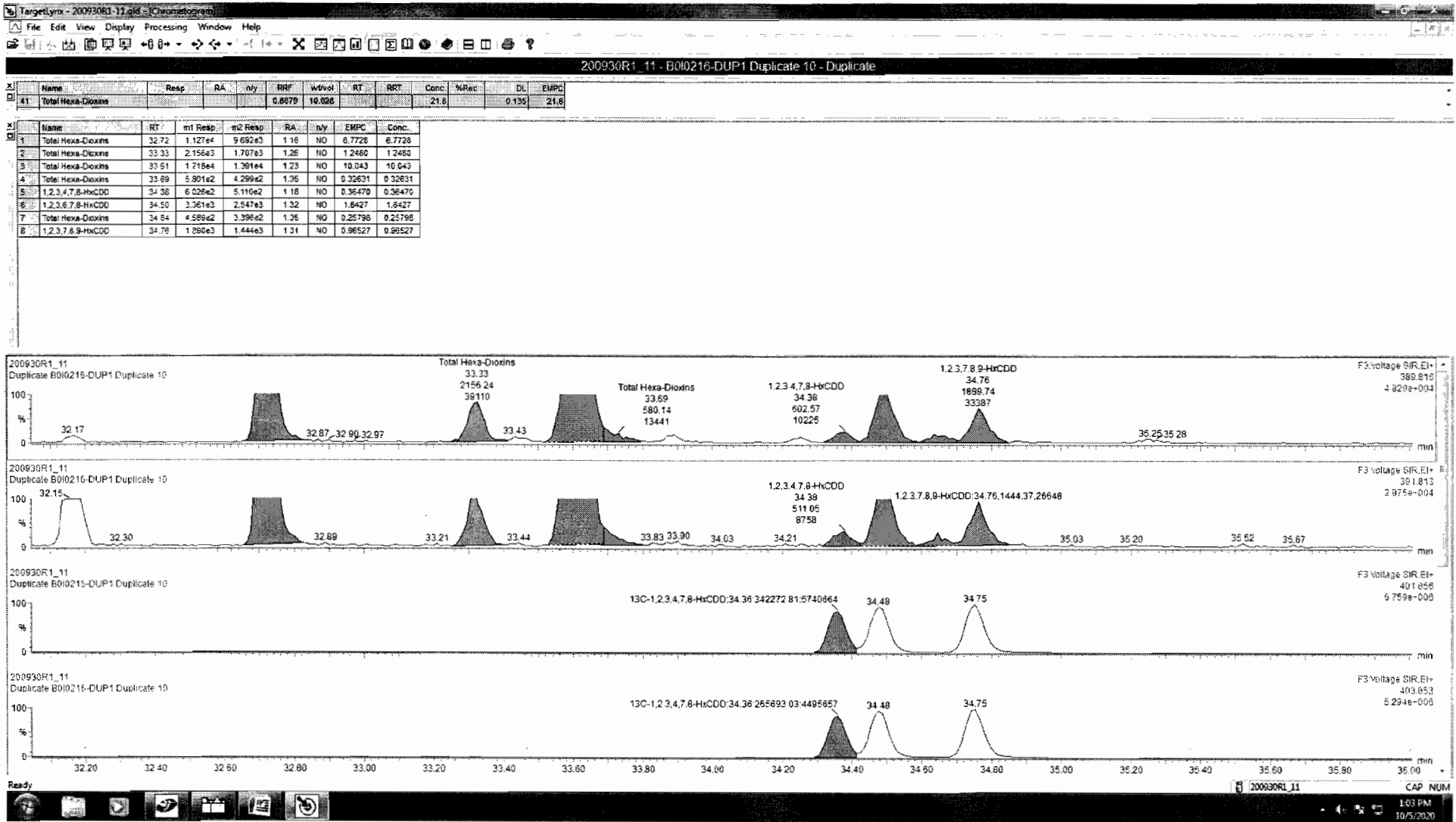
1,2,3,4,7,8-HxCDD



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







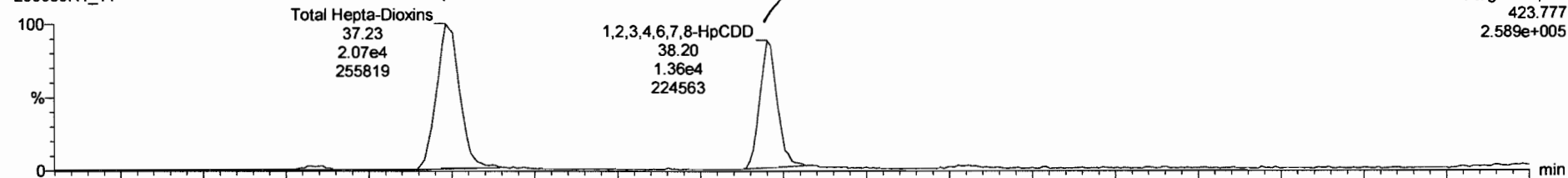
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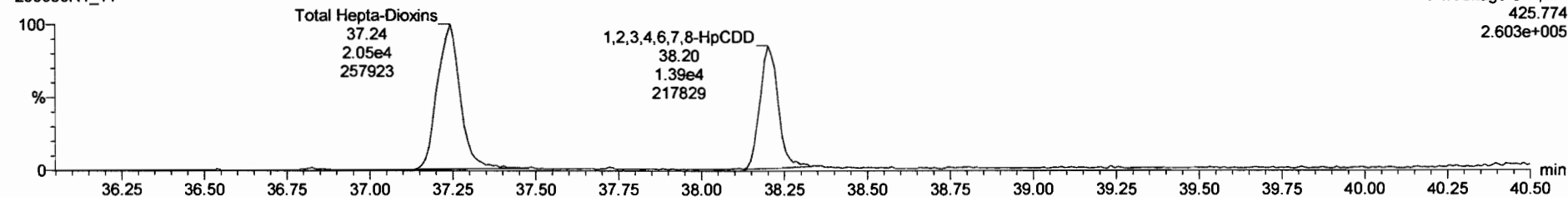
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**1,2,3,4,6,7,8-HpCDD**

200930R1\_11

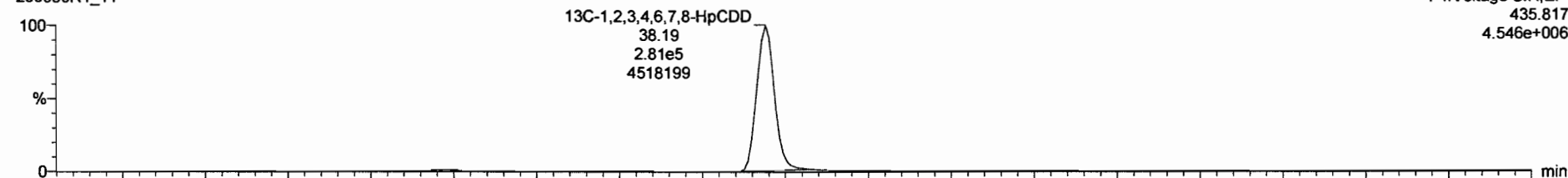


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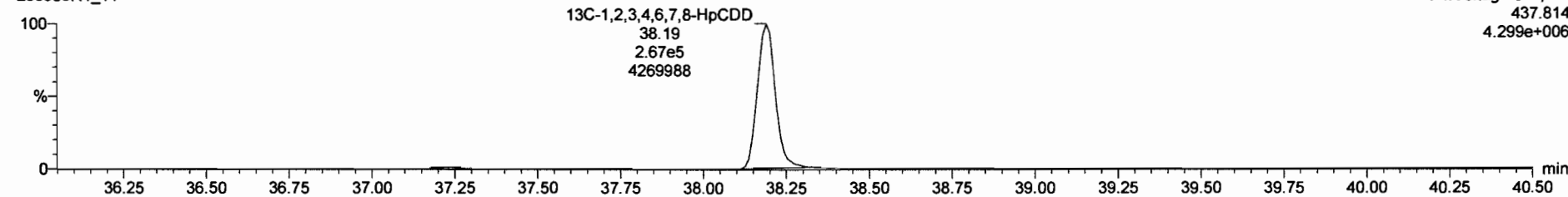


**13C-1,2,3,4,6,7,8-HpCDD**

200930R1\_11



200930R1\_11



Dataset: Untitled

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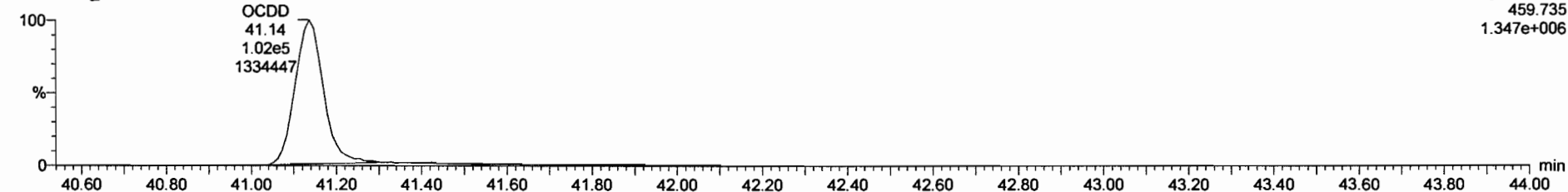
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**OCDD**

200930R1\_11



200930R1\_11

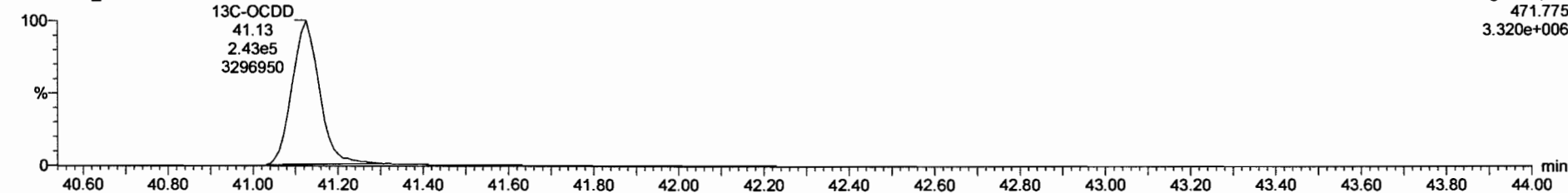


**13C-OCDD**

200930R1\_11



200930R1\_11



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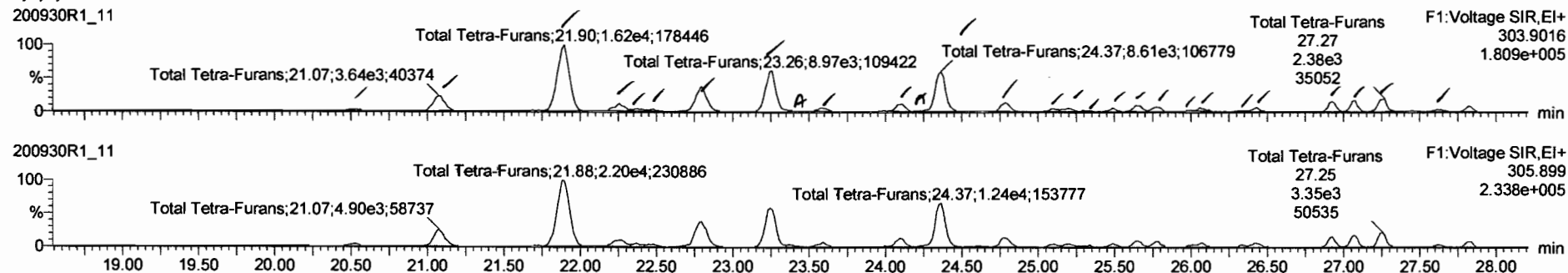
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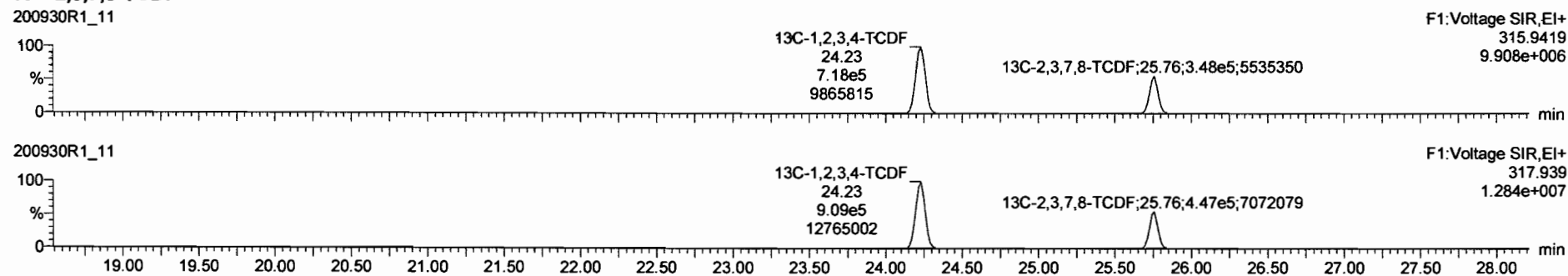
**2,3,7,8-TCDF**

200930R1\_11



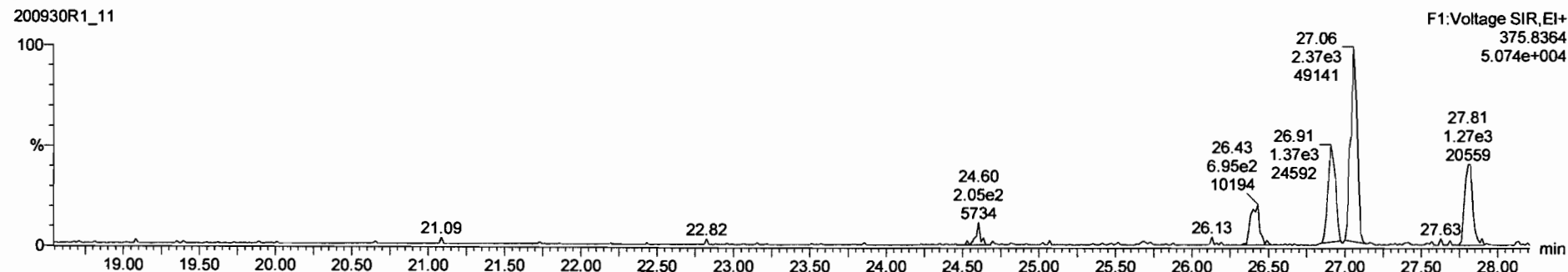
**13C-2,3,7,8-TCDF**

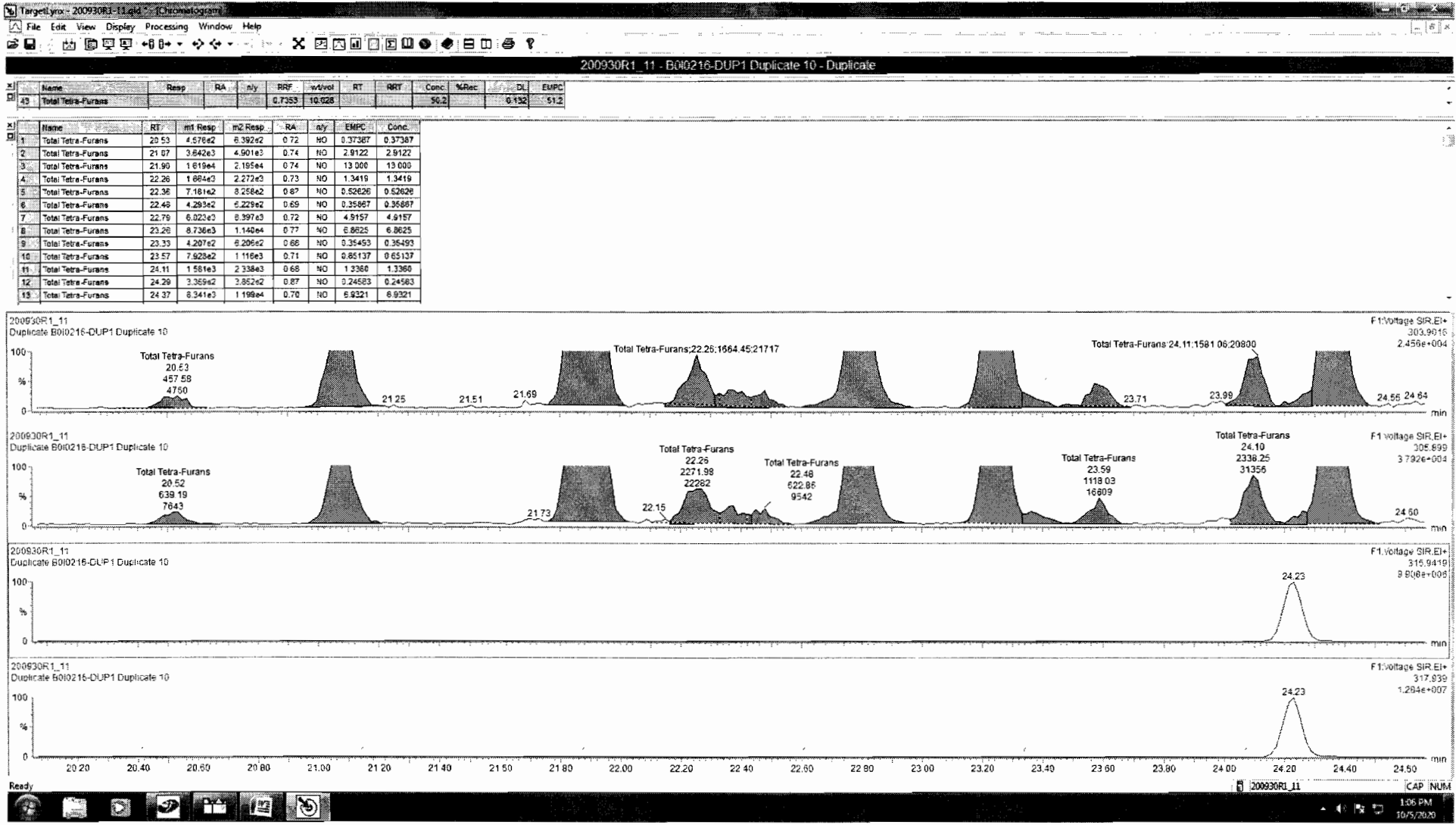
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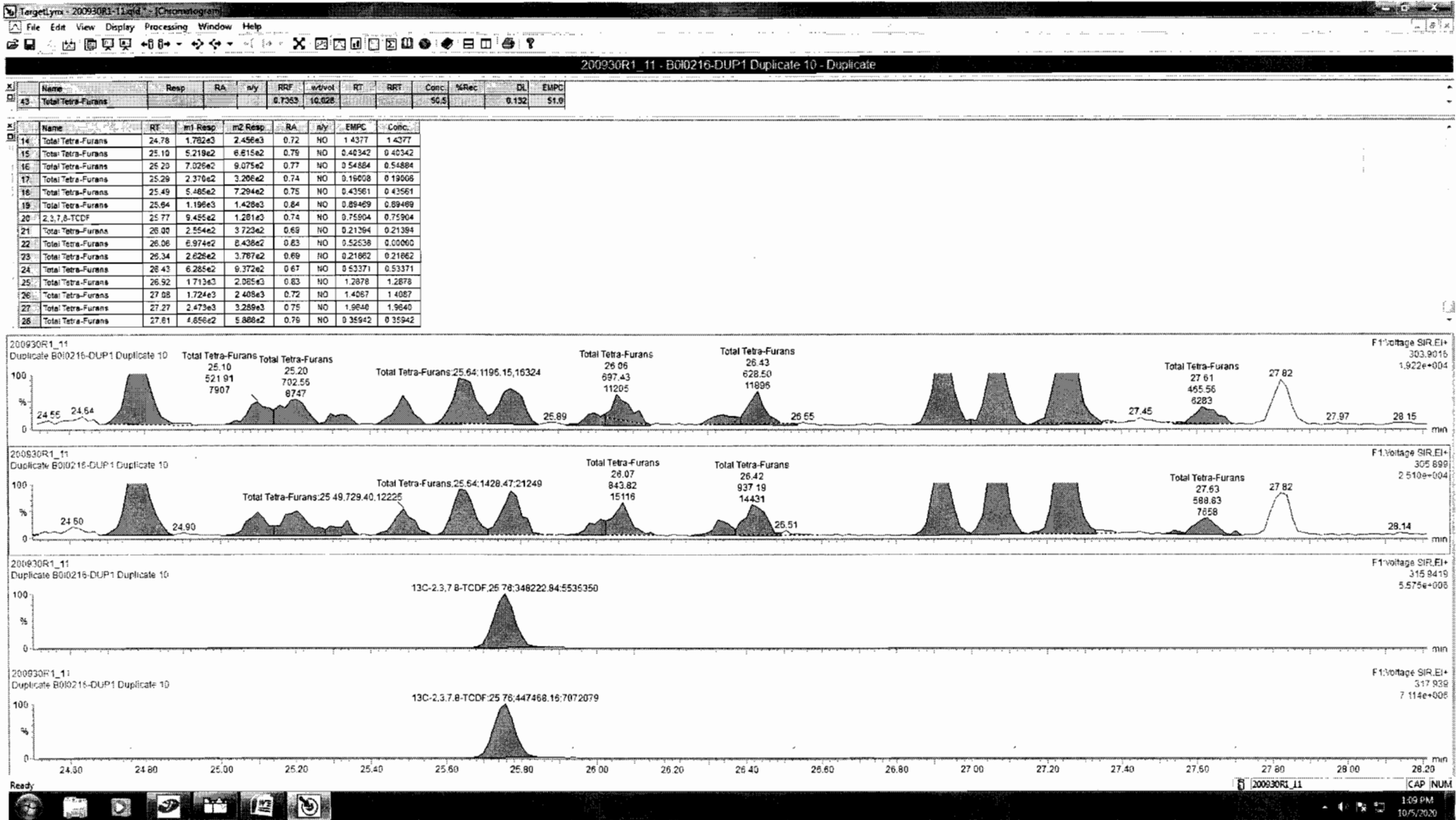


**DPE1**

200930R1\_11







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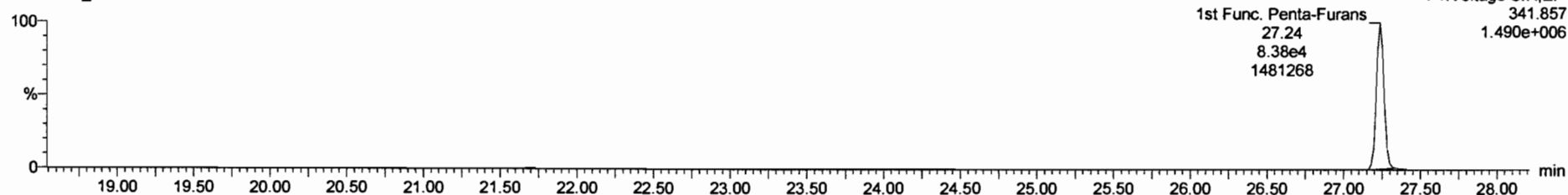
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1st Func. Penta-Furans

200930R1\_11

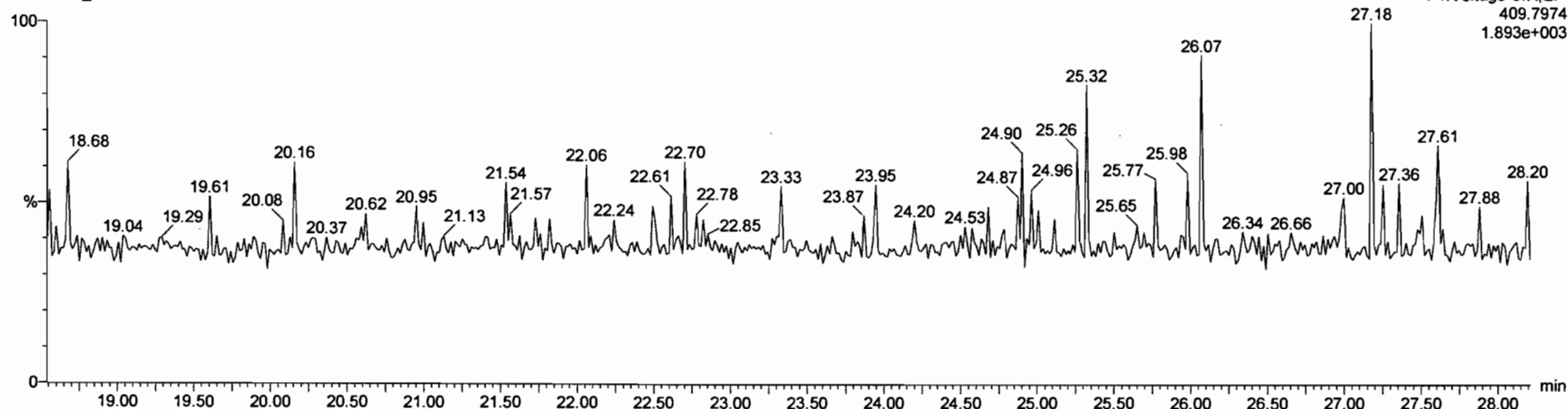


200930R1\_11



DPE6

200930R1\_11



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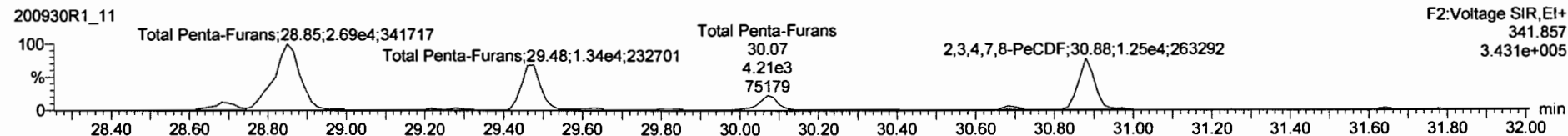
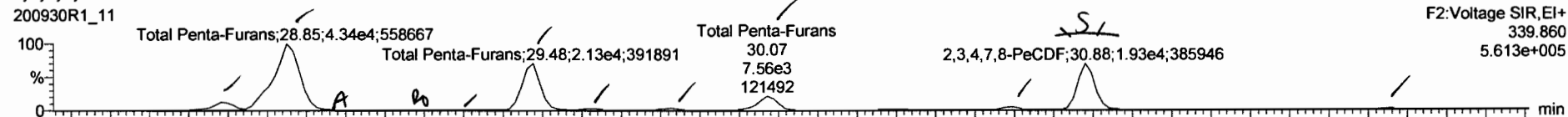
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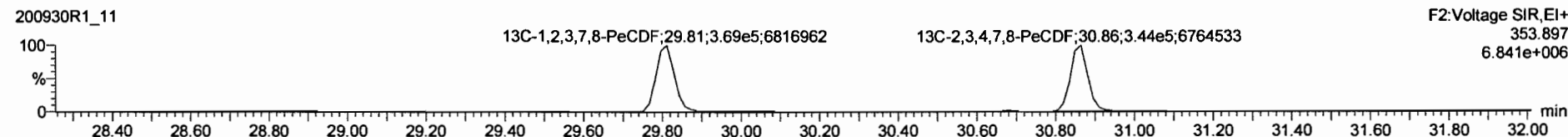
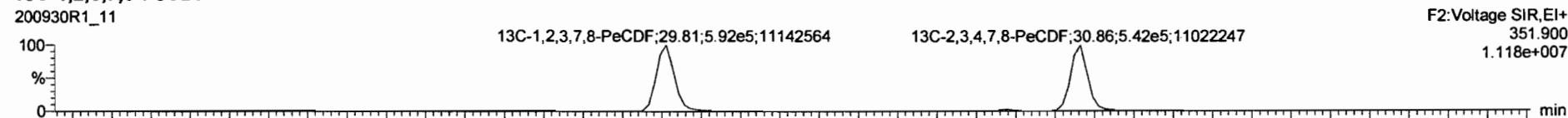
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*GPB 10/22/2020*

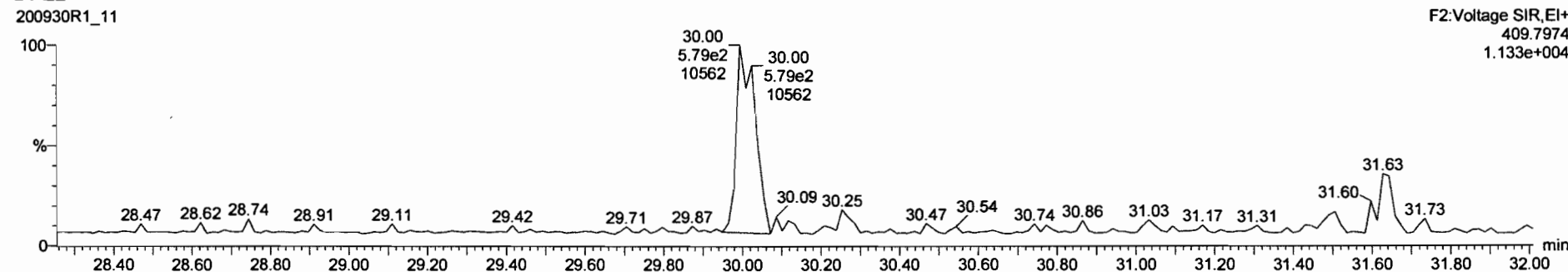
**1,2,3,7,8-PeCDF**



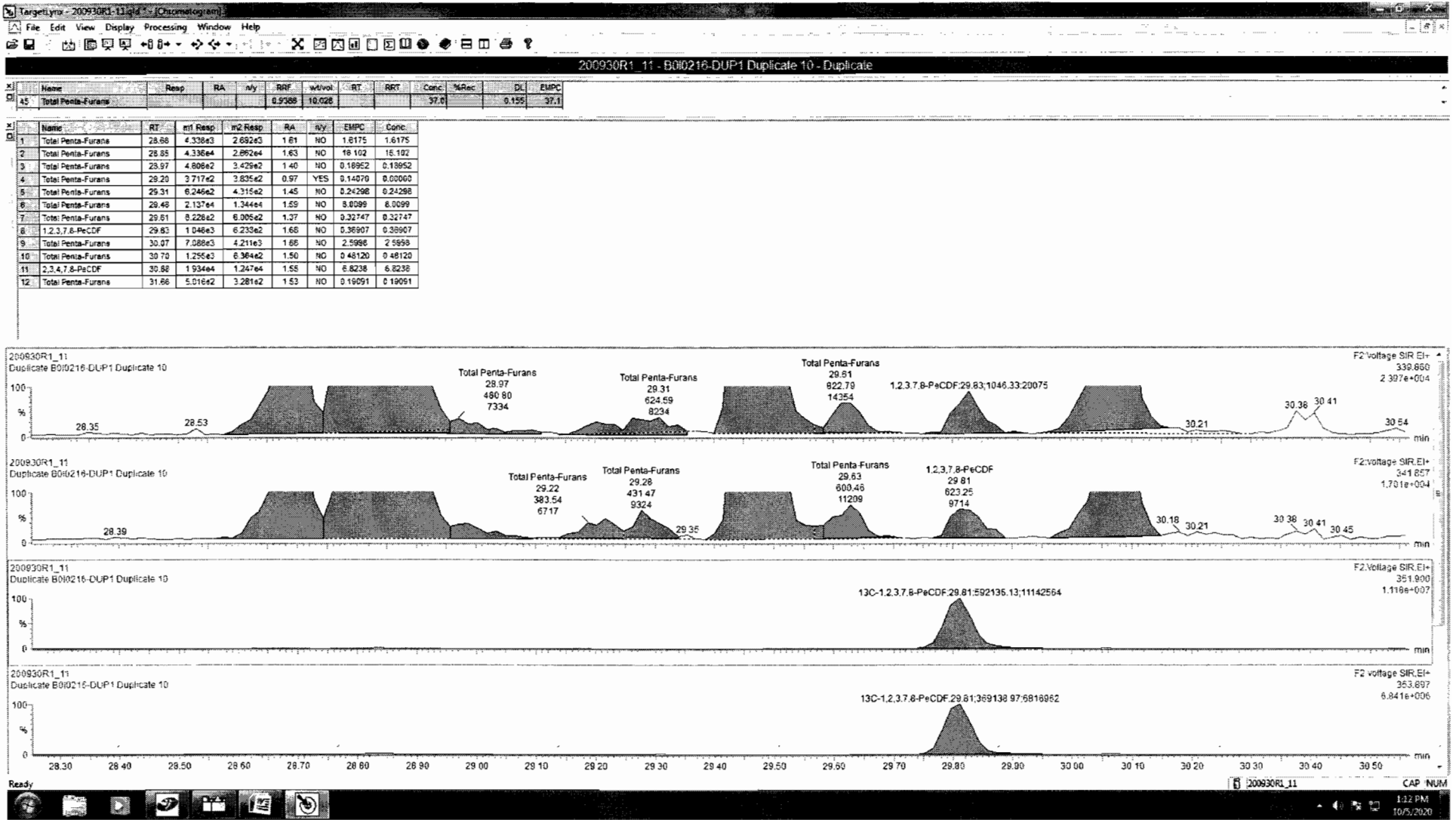
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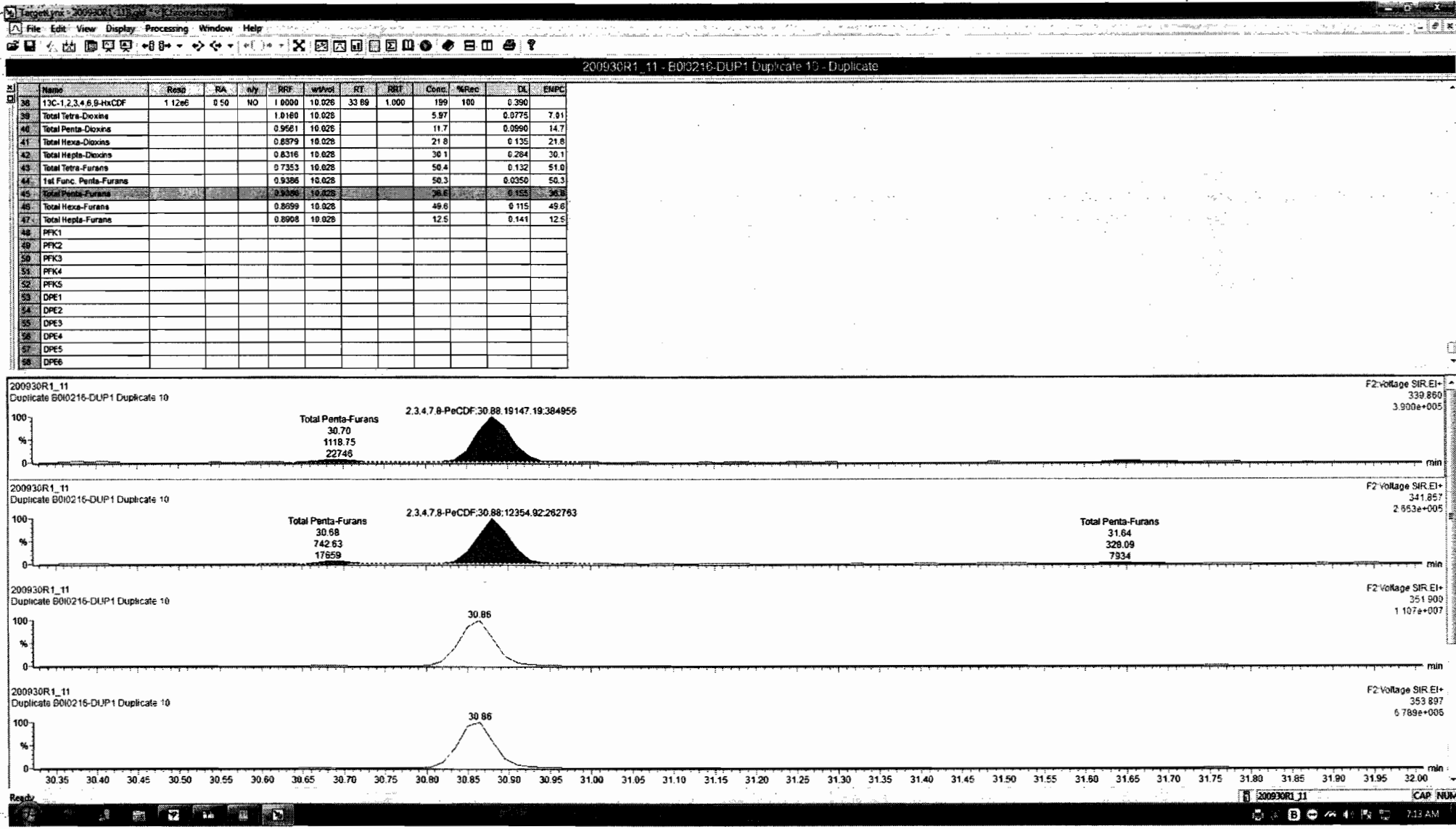


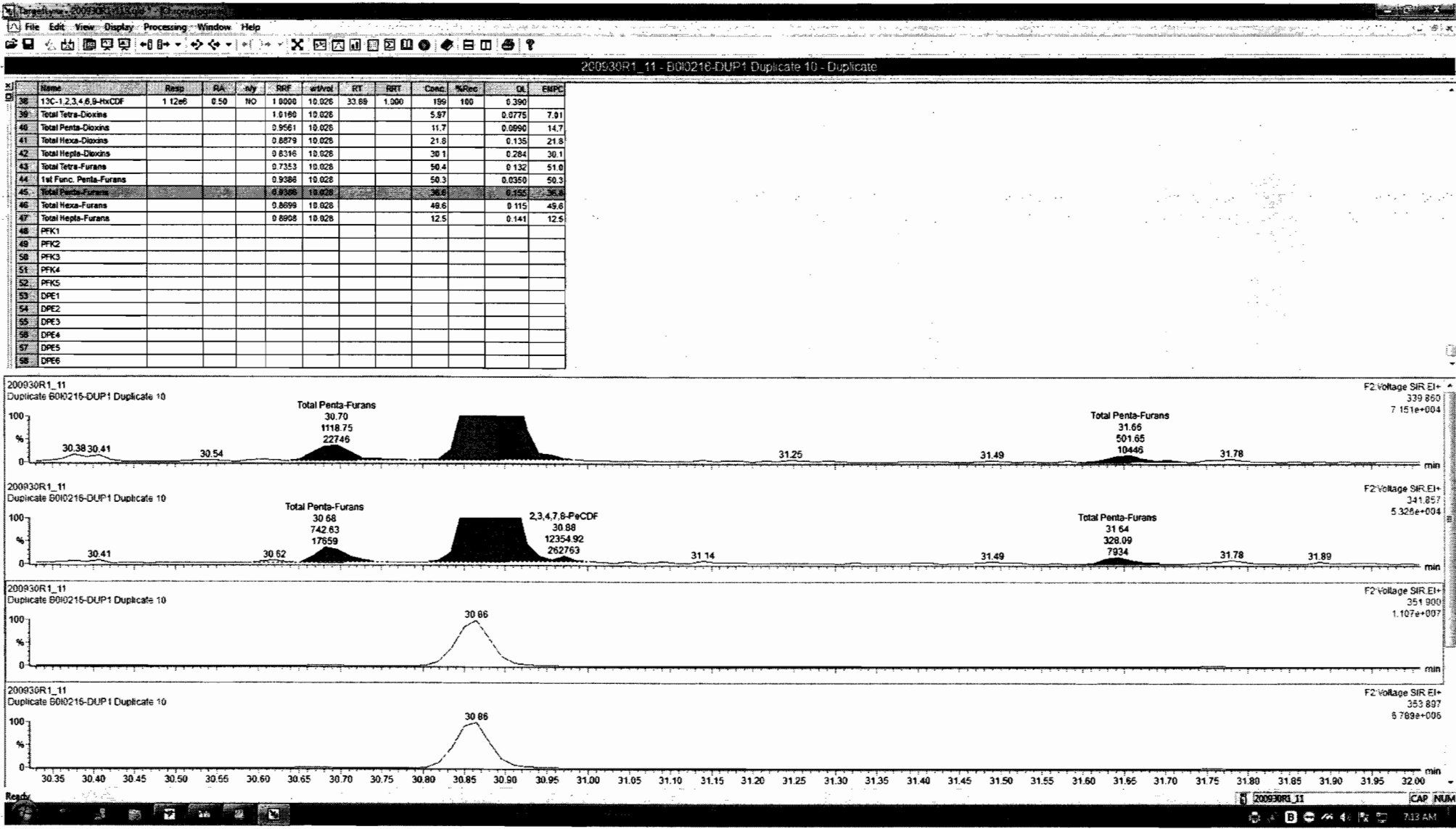
**DPE2**











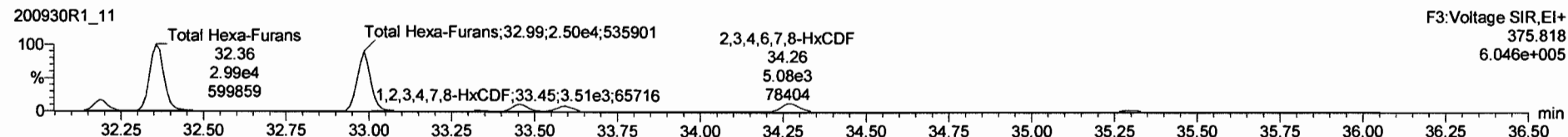
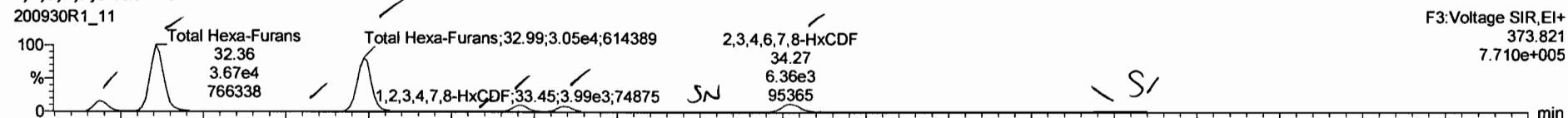
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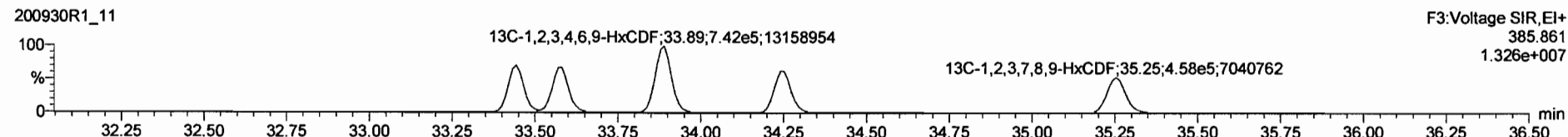
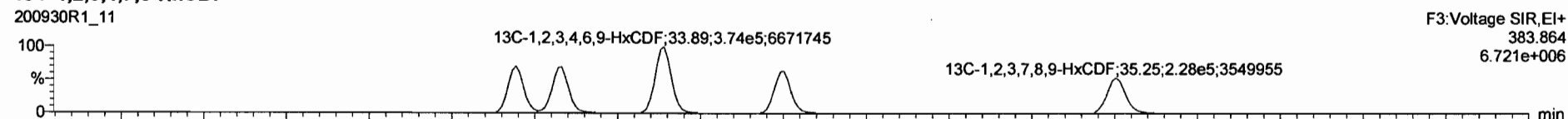
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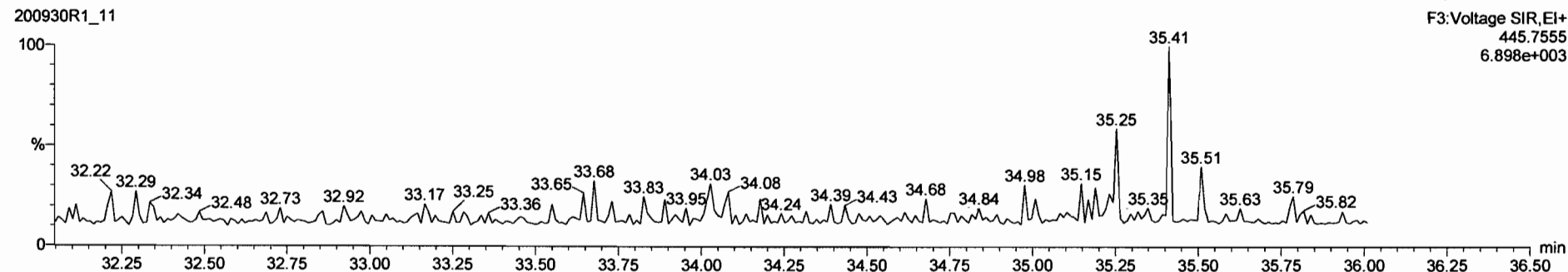
### 1,2,3,4,7,8-HxCDF

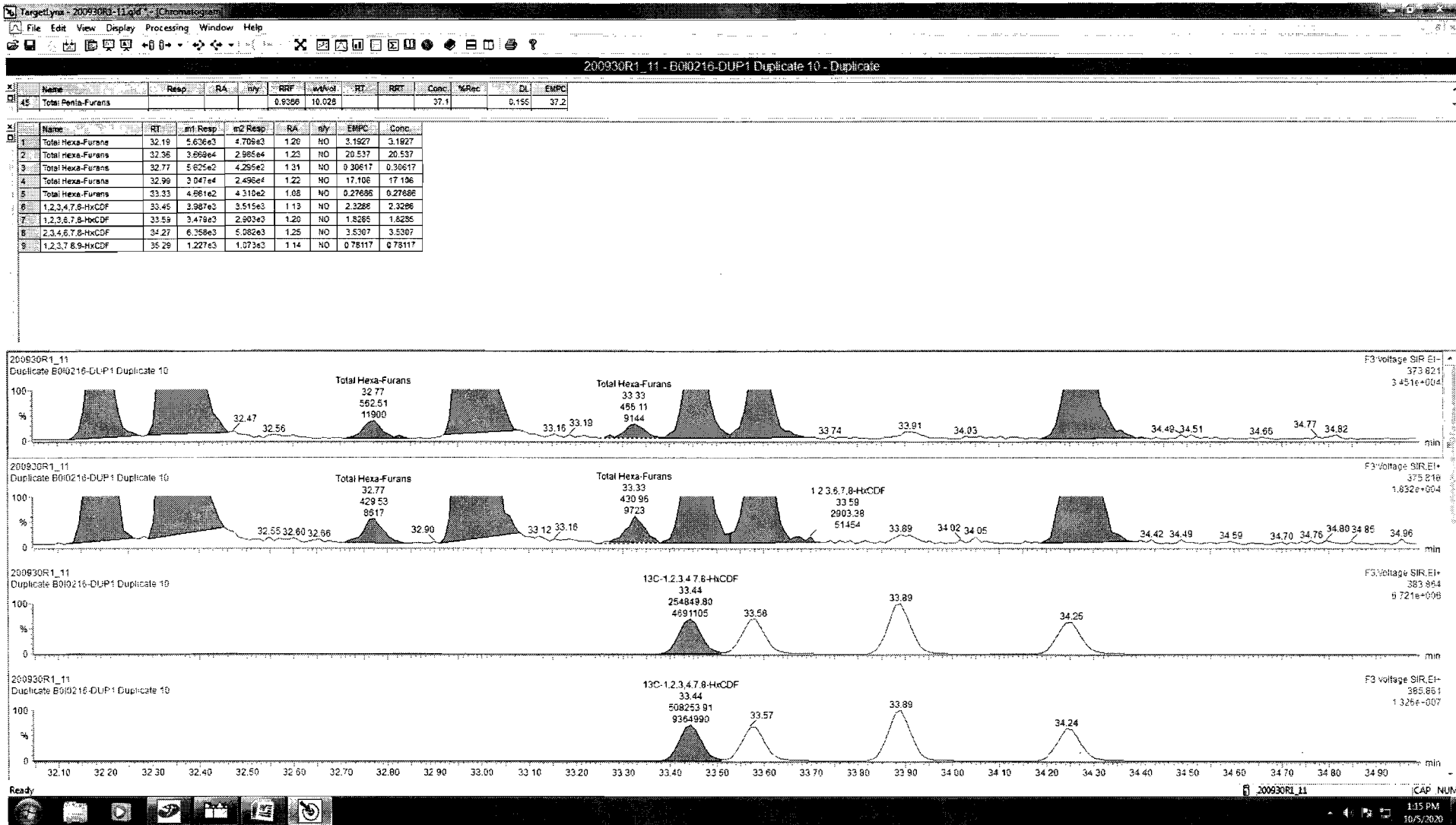


### 13C-1,2,3,4,7,8-HxCDF



### DPE3

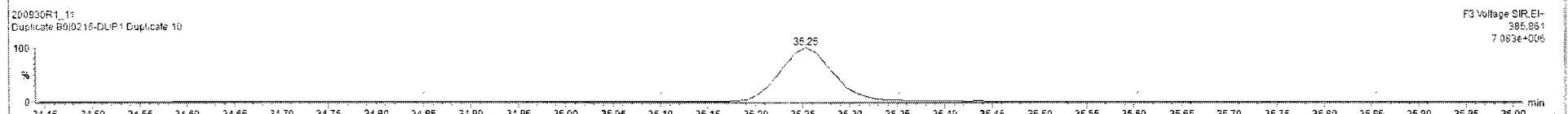
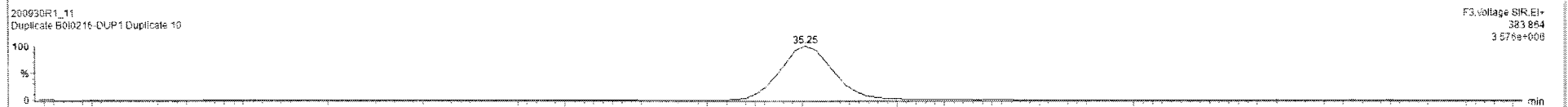
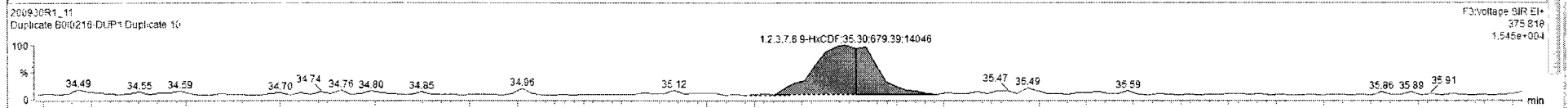
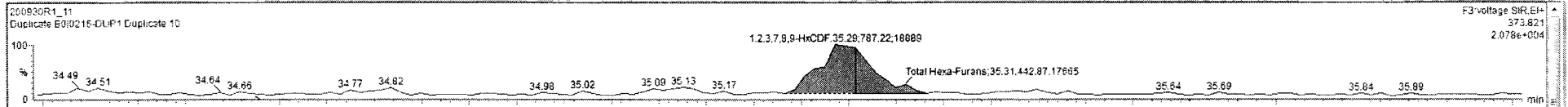




200930R1\_11 - 6010216-DUP1 Duplicate 10 - Duplicate

Name	Resp	RA	nl	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
Total Hexa-Furans				0.9386	10.828			37.1		0.155	37.2

Name	RT	m1 Resp	m2 Resp	RA	nl	EMPC	Conc.
Total Hexa-Furans	32.19	5.63e3	4.709e3	1.20	NO	3.1927	3.1927
Total Hexa-Furans	32.38	3.888e4	2.966e4	1.23	NO	20.537	20.537
Total Hexa-Furans	32.77	5.625e2	4.255e2	1.31	NO	0.30617	0.30617
Total Hexa-Furans	32.99	3.047e4	2.498e4	1.22	NO	17.108	17.108
Total Hexa-Furans	33.33	4.861e2	4.310e2	1.08	NO	0.27686	0.27686
1,2,3,4,7,8-HxCDF	33.45	3.987e3	3.515e3	1.13	NO	2.3288	2.3288
1,2,3,6,7,8-HxCDF	33.56	3.478e3	2.903e3	1.20	NO	1.8285	1.8285
2,3,4,6,7,8-HxCDF	34.27	6.358e3	5.062e3	1.25	NO	3.5307	3.5307
1,2,3,7,8,9-HxCDF	35.29	7.872e2	6.794e2	1.16	NO	0.49818	0.49818
Total Hexa-Furans	35.31	4.429e2	3.886e2	1.14	NO	0.25662	0.25662



Dataset: Untitled

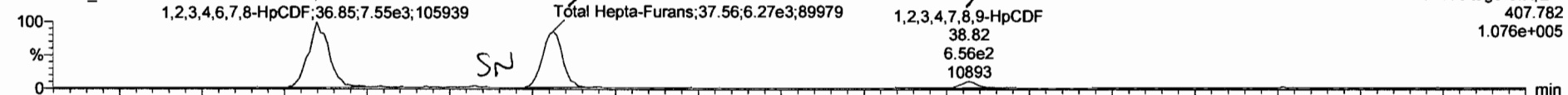
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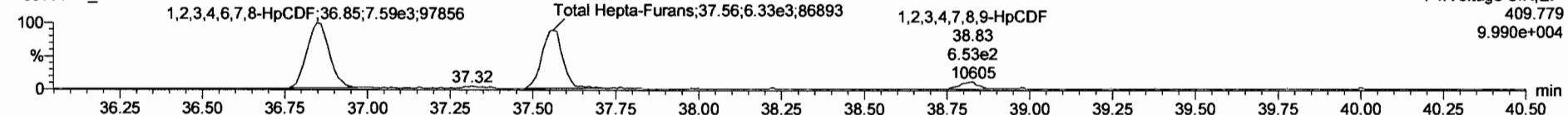
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**1,2,3,4,6,7,8-HpCDF**

200930R1\_11

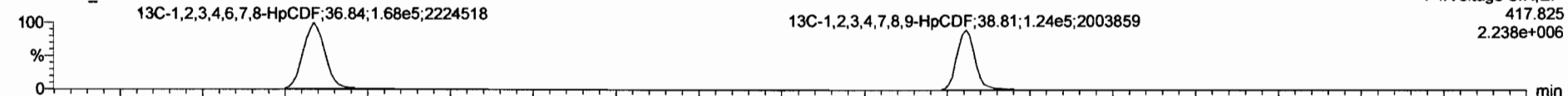


200930R1\_11

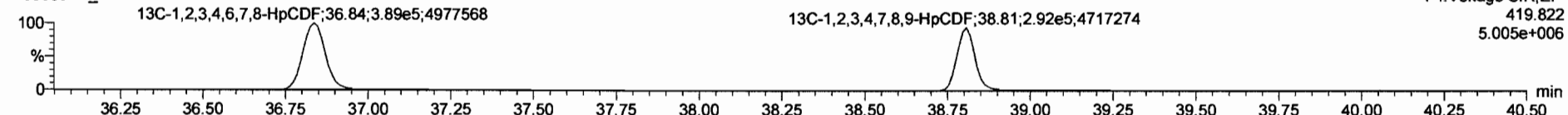


**13C-1,2,3,4,6,7,8-HpCDF**

200930R1\_11

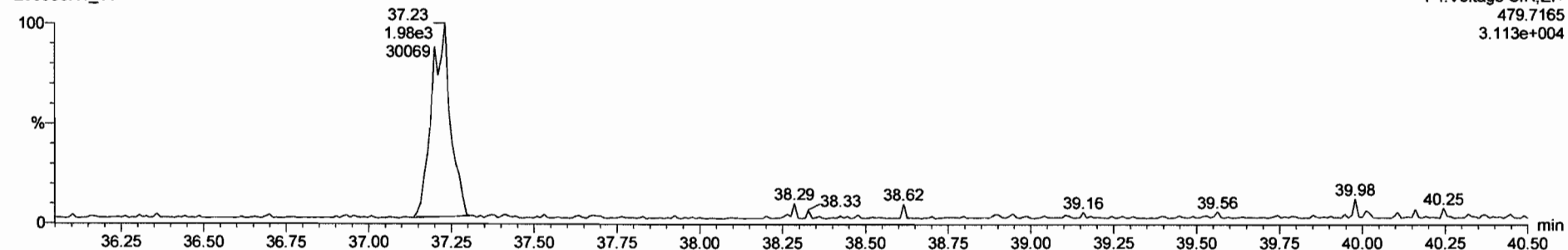


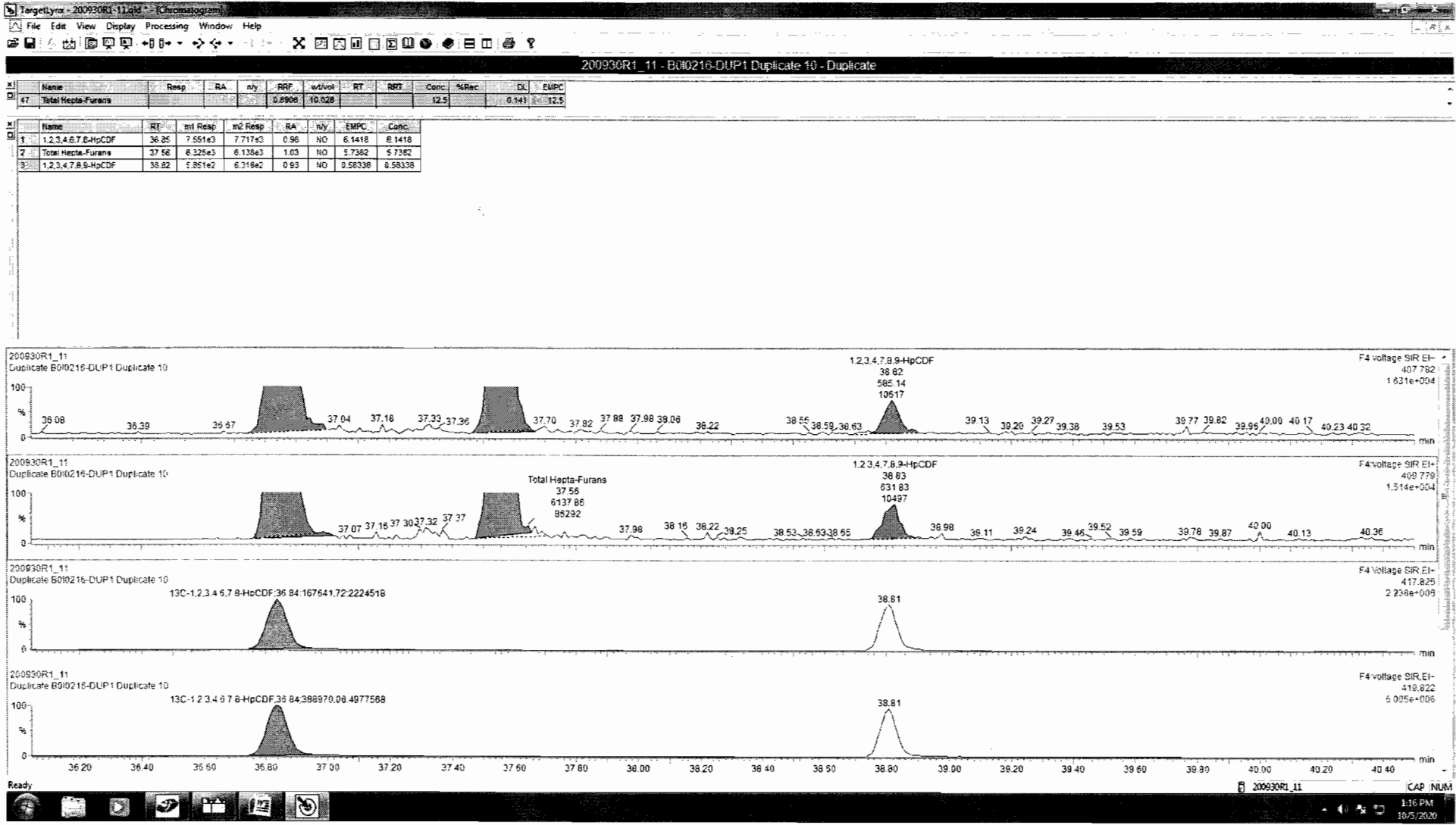
200930R1\_11



**DPE4**

200930R1\_11







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Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

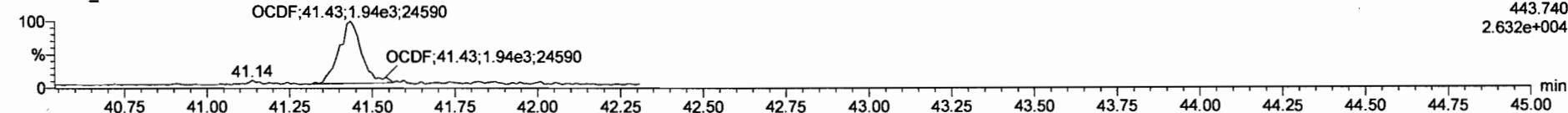
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**OCDF**

200930R1\_11

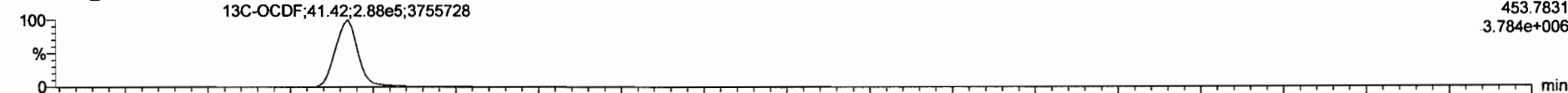


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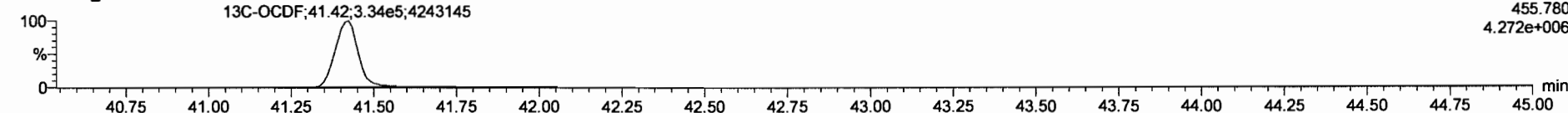


**13C-OCDF**

200930R1\_11

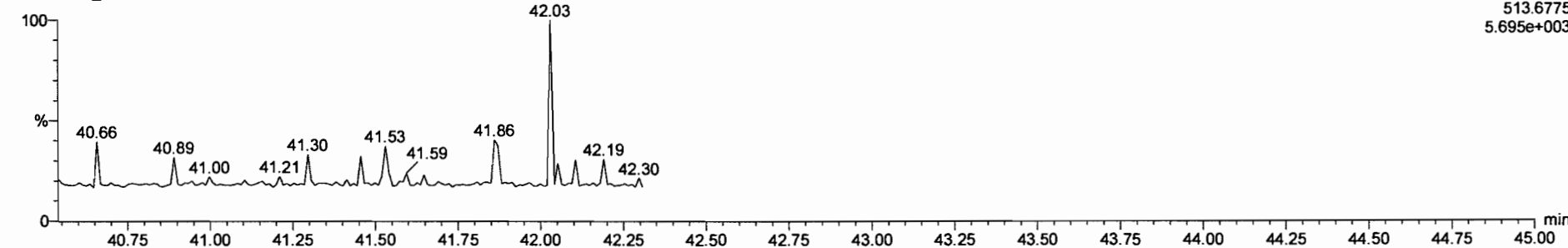


200930R1\_11



**DPE5**

200930R1\_11

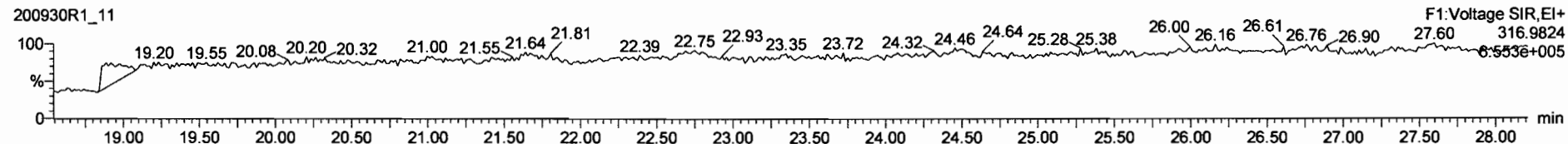


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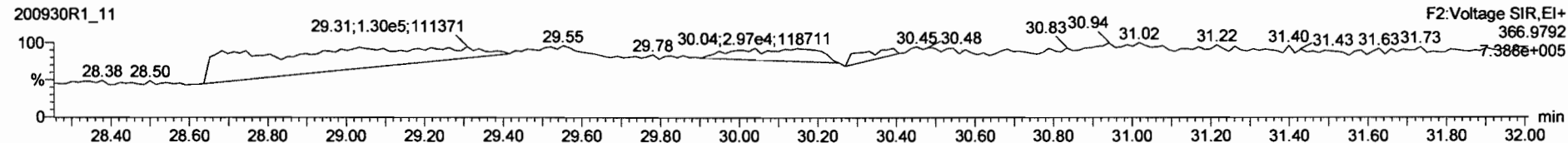
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Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

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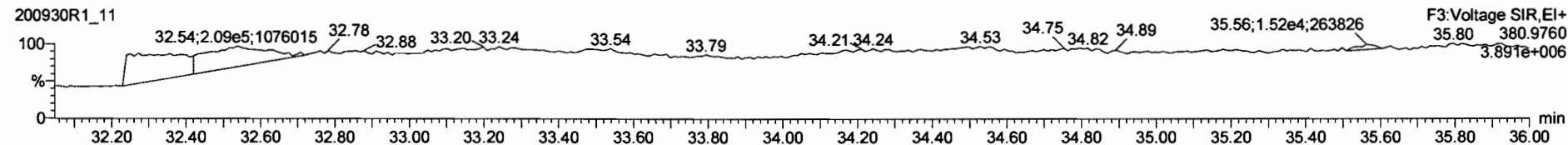
PFK1



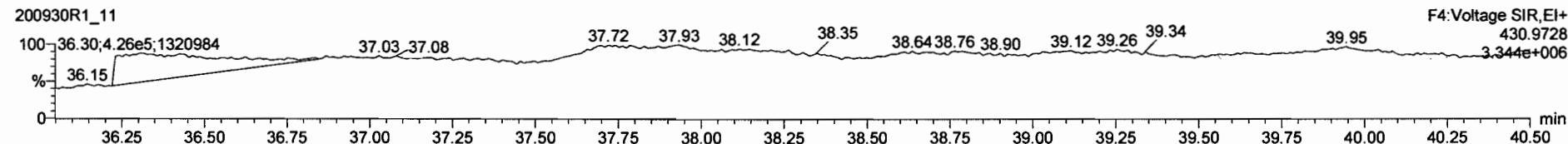
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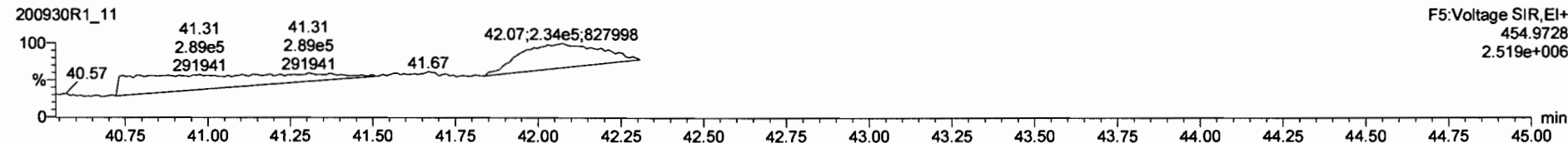
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-15B.qld

Last Altered: Friday, October 23, 2020 07:54:56 Pacific Daylight Time

Printed: Friday, October 23, 2020 07:55:44 Pacific Daylight Time

*GRB 10/23/2020*

*ML  
10/23/20*

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

Name: 201009R5\_15, Date: 10-Oct-2020, Time: 02:34:51, ID: 2001995-03RE2 PDI-068SC-A-08-09-200430 16.32, Description: PDI-068SC-A-08-09-200430

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	6.89e2	0.40	YES	1.03	10.002	26.370	26.39	1.001	1.002	0.24114		0.0596	0.158
2	2 1,2,3,7,8-PeCDD			NO	0.929	10.002	30.996		1.000				0.138	
3	3 1,2,3,4,7,8-HxCDD			NO	1.08	10.002	34.333		1.001				0.154	
4	4 1,2,3,6,7,8-HxCDD			NO	0.967	10.002	34.433		1.000				0.163	
5	5 1,2,3,7,8,9-HxCDD			NO	0.996	10.002	34.710		1.000				0.165	
6	6 1,2,3,4,6,7,8-HpCDD	1.90e3	0.96	NO	0.946	10.002	38.158	38.17	1.000	1.000	1.4516		0.175	1.45
7	7 OCDD	7.78e3	0.91	NO	0.925	10.002	41.083	41.10	1.000	1.001	8.6169		0.716	8.62
8	8 2,3,7,8-TCDF	8.26e2	0.69	NO	0.869	10.002	25.676	25.70	1.000	1.001	0.24733		0.0923	0.247
9	9 1,2,3,7,8-PeCDF	5.25e2	1.37	NO	0.989	10.002	29.760	29.77	1.000	1.001	0.18746		0.122	0.187
10	10 2,3,4,7,8-PeCDF	1.29e3	1.69	NO	1.10	10.002	30.804	30.82	1.000	1.000	0.43924		0.115	0.439
11	11 1,2,3,4,7,8-HxCDF	1.55e3	1.12	NO	0.996	10.002	33.400	33.41	1.000	1.000	0.68362		0.120	0.684
12	12 1,2,3,6,7,8-HxCDF	9.99e2	1.40	NO	1.04	10.002	33.528	33.55	1.000	1.001	0.42954		0.117	0.430
13	13 2,3,4,6,7,8-HxCDF	7.19e2	1.09	NO	1.04	10.002	34.191	34.21	1.000	1.001	0.32642		0.139	0.326
14	14 1,2,3,7,8,9-HxCDF			NO	1.01	10.002	35.190		1.000				0.185	
15	15 1,2,3,4,6,7,8-HpCDF	6.86e3	1.02	NO	1.06	10.002	36.788	36.78	1.000	1.000	4.2655		0.154	4.27
16	16 1,2,3,4,7,8,9-HpCDF	5.07e2	1.06	NO	1.18	10.002	38.775	38.76	1.000	1.000	0.38110		0.159	0.381
17	17 OCDF	2.04e3	0.84	NO	0.929	10.002	41.389	41.40	1.000	1.001	1.8689		0.594	1.87
18	18 13C-2,3,7,8-TCDD	5.57e5	0.80	NO	1.14	10.002	26.343	26.34	1.029	1.029	188.37	94.2	0.221	
19	19 13C-1,2,3,7,8-PeCDD	4.13e5	0.63	NO	0.794	10.002	30.993	30.99	1.211	1.211	200.31	100	0.307	
20	20 13C-1,2,3,4,7,8-HxCDD	3.34e5	1.25	NO	0.698	10.002	34.287	34.31	1.013	1.014	177.02	88.5	0.443	
21	21 13C-1,2,3,6,7,8-HxCDD	3.75e5	1.27	NO	0.778	10.002	34.416	34.42	1.017	1.017	178.62	89.3	0.398	
22	22 13C-1,2,3,7,8,9-HxCDD	3.53e5	1.27	NO	0.751	10.002	34.686	34.70	1.025	1.026	174.08	87.1	0.412	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.77e5	1.06	NO	0.599	10.002	38.134	38.16	1.127	1.128	171.30	85.7	1.08	
24	24 13C-OCDD	3.91e5	0.87	NO	0.503	10.002	41.075	41.08	1.214	1.214	287.65	71.9	1.06	
25	25 13C-2,3,7,8-TCDF	7.69e5	0.78	NO	0.994	10.002	25.672	25.67	1.003	1.003	195.79	97.9	0.283	
26	26 13C-1,2,3,7,8-PeCDF	5.67e5	1.58	NO	0.743	10.002	29.744	29.75	1.162	1.162	193.16	96.6	0.675	
27	27 13C-2,3,4,7,8-PeCDF	5.37e5	1.60	NO	0.726	10.002	30.804	30.80	1.204	1.204	187.32	93.7	0.691	
28	28 13C-1,2,3,4,7,8-HxCDF	4.54e5	0.51	NO	0.979	10.002	33.387	33.40	0.987	0.987	171.89	86.0	0.642	
29	29 13C-1,2,3,6,7,8-HxCDF	4.48e5	0.51	NO	0.998	10.002	33.526	33.53	0.991	0.991	166.52	83.3	0.630	
30	30 13C-2,3,4,6,7,8-HxCDF	4.24e5	0.50	NO	0.945	10.002	34.186	34.19	1.010	1.010	166.05	83.0	0.665	
31	31 13C-1,2,3,7,8,9-HxCDF	3.69e5	0.51	NO	0.799	10.002	35.187	35.19	1.040	1.040	171.20	85.6	0.787	

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-15B.qld

Last Altered: Friday, October 23, 2020 07:54:56 Pacific Daylight Time  
Printed: Friday, October 23, 2020 07:55:44 Pacific Daylight Time

Name: 201009R5\_15, Date: 10-Oct-2020, Time: 02:34:51, ID: 2001995-03RE2 PDI-068SC-A-08-09-200430 16.32, Description: PDI-068SC-A-08-09-200430

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.05e5	0.43	NO	0.722	10.002	36.757	36.78	1.086	1.087	156.51	78.3	0.745	
33	13C-1,2,3,4,7,8,9-HpCDF	2.26e5	0.43	NO	0.565	10.002	38.747	38.78	1.145	1.146	148.26	74.1	0.951	
34	13C-OCDF	4.70e5	0.87	NO	0.607	10.002	41.366	41.38	1.222	1.223	287.04	71.8	1.31	
35	37Cl-2,3,7,8-TCDD	2.24e5			1.18	10.002	26.361	26.37	1.030	1.030	72.942	91.2	0.0480	
36	13C-1,2,3,4-TCDD	5.19e5	0.77	NO	1.00	10.002	25.590	25.59	1.000	1.000	199.97	100	0.252	
37	13C-1,2,3,4-TCDF	7.90e5	0.80	NO	1.00	10.002	24.130	24.14	1.000	1.000	199.97	100	0.281	
38	13C-1,2,3,4,6,9-HxCDF	5.40e5	0.51	NO	1.00	10.002	33.840	33.84	1.000	1.000	199.97	100	0.629	
39	Total Tetra-Dioxins				1.03	10.002	24.620		0.000		1.0648		0.0596	1.22
40	Total Penta-Dioxins				0.929	10.002	29.960		0.000		0.77780		0.138	1.24
41	Total Hexa-Dioxins				0.967	10.002	33.635		0.000		2.6521		0.168	2.65
42	Total Hepta-Dioxins				0.946	10.002	37.640		0.000		3.8183		0.175	3.82
43	Total Tetra-Furans				0.869	10.002	23.610		0.000		4.2487		0.0923	4.54
44	1st Func. Penta-Furans				0.989	10.002	27.230		0.000		1.1504		0.0279	1.15
45	Total Penta-Furans				0.989	10.002	29.275		0.000		2.8858		0.125	2.89
46	Total Hexa-Furans				1.04	10.002	33.555		0.000		4.6211		0.135	4.62
47	Total Hepta-Furans				1.06	10.002	37.835		0.000		7.8113		0.164	7.81

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-15B.qld

Last Altered: Friday, October 23, 2020 07:54:56 Pacific Daylight Time

Printed: Friday, October 23, 2020 07:55:44 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

Name: 201009R5\_15, Date: 10-Oct-2020, Time: 02:34:51, ID: 2001995-03RE2 PDI-068SC-A-08-09-200430 16.32, Description: PDI-068SC-A-08-09-200430

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	22.66	7.362e3	8.388e3	4.759e2	6.422e2	0.74	NO	1.118e3	0.39122	0.39122	0.0596
2	Total Tetra-Dioxins	22.97	4.512e3	1.099e4	4.139e2	5.907e2	0.70	NO	1.005e3	0.35154	0.35154	0.0596
3	Total Tetra-Dioxins	24.31	3.465e3	6.103e3	2.344e2	3.545e2	0.66	NO	5.890e2	0.20608	0.20608	0.0596
4	Total Tetra-Dioxins	24.53	1.775e3	2.186e3	1.552e2	1.763e2	0.88	NO	3.315e2	0.11600	0.11600	0.0596
5	2,3,7,8-TCDD	26.39	2.927e3	6.690e3	1.960e2	4.932e2	0.40	YES	6.892e2	0.00000	0.15761	0.0596

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	28.77	4.205e3	5.681e3	2.715e2	4.563e2	0.60	NO	7.278e2	0.37966	0.37966	0.138
2	Total Penta-Dioxins	29.25	3.848e3	3.266e3	1.056e2	1.681e2	0.63	NO	2.737e2	0.14278	0.14278	0.138
3	Total Penta-Dioxins	29.75	4.820e3	5.110e3	2.404e2	2.241e2	1.07	YES	0.000e0	0.00000	0.19053	0.138
4	Total Penta-Dioxins	29.98	3.227e3	6.558e3	2.040e2	3.940e2	0.52	YES	0.000e0	0.00000	0.27529	0.138
5	Total Penta-Dioxins	30.24	3.946e3	4.954e3	2.011e2	2.884e2	0.70	NO	4.896e2	0.25537	0.25537	0.138

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.68	2.486e4	2.150e4	1.177e3	1.020e3	1.15	NO	2.197e3	1.2844	1.2844	0.168
2	Total Hexa-Dioxins	33.27	4.968e3	7.104e3	2.639e2	2.405e2	1.10	NO	5.044e2	0.29487	0.29487	0.168
3	Total Hexa-Dioxins	33.56	1.415e4	1.242e4	1.011e3	8.238e2	1.23	NO	1.835e3	1.0728	1.0728	0.168

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.20	1.656e4	1.966e4	1.538e3	1.564e3	0.98	NO	3.102e3	2.3667	2.3667	0.175
2	1,2,3,4,6,7,8-HpCDD	38.17	1.390e4	1.313e4	9.304e2	9.722e2	0.96	NO	1.903e3	1.4516	1.4516	0.175

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-15B.qld

Last Altered: Friday, October 23, 2020 07:54:56 Pacific Daylight Time  
 Printed: Friday, October 23, 2020 07:55:44 Pacific Daylight Time

Name: 201009R5\_15, Date: 10-Oct-2020, Time: 02:34:51, ID: 2001995-03RE2 PDI-068SC-A-08-09-200430 16.32, Description: PDI-068SC-A-08-09-200430

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Furans	20.43	6.053e3	6.525e3	3.904e2	4.556e2	0.86	NO	8.461e2	0.25326	0.25326	0.0923
2	Total Tetra-Furans	21.00	6.555e3	6.893e3	4.517e2	5.152e2	0.88	NO	0.000e0	0.00000	0.28942	0.0923
3	Total Tetra-Furans	21.78	1.826e4	2.121e4	1.610e3	2.015e3	0.80	NO	3.625e3	1.0852	1.0852	0.0923
4	Total Tetra-Furans	22.69	1.068e4	9.313e3	1.019e3	1.218e3	0.84	NO	2.237e3	0.66963	0.66963	0.0923
5	Total Tetra-Furans	23.15	5.307e3	7.400e3	3.927e2	4.534e2	0.87	NO	8.461e2	0.25328	0.25328	0.0923
6	Total Tetra-Furans	23.32	2.131e3	2.962e3	1.208e2	1.530e2	0.79	NO	2.738e2	0.081962	0.081962	0.0923
7	Total Tetra-Furans	23.48	2.685e3	3.122e3	1.732e2	2.260e2	0.77	NO	3.992e2	0.11948	0.11948	0.0923
8	Total Tetra-Furans	23.89	1.858e3	2.975e3	1.491e2	1.784e2	0.84	NO	3.275e2	0.098028	0.098028	0.0923
9	Total Tetra-Furans	24.04	3.091e3	4.207e3	2.387e2	2.716e2	0.88	NO	5.104e2	0.15278	0.15278	0.0923
10	Total Tetra-Furans	24.20	3.322e3	8.490e3	3.143e2	4.561e2	0.69	NO	7.704e2	0.23061	0.23061	0.0923
11	Total Tetra-Furans	24.31	5.833e3	1.028e4	5.002e2	6.751e2	0.74	NO	1.175e3	0.35180	0.35180	0.0923
12	Total Tetra-Furans	24.71	6.447e3	8.069e3	4.065e2	5.639e2	0.72	NO	9.705e2	0.29050	0.29050	0.0923
13	Total Tetra-Furans	25.56	3.193e3	5.578e3	2.050e2	2.827e2	0.73	NO	4.878e2	0.14600	0.14600	0.0923
14	2,3,7,8-TCDF	25.70	5.271e3	8.471e3	3.360e2	4.903e2	0.69	NO	8.263e2	0.24733	0.24733	0.0923
15	Total Tetra-Furans	25.92	3.537e3	5.060e3	3.614e2	5.366e2	0.67	NO	8.980e2	0.26880	0.26880	0.0923

**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	3.066e4	1.731e4	1.994e3	1.145e3	1.74	NO	3.140e3	1.1504	1.1504	0.0279

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Furans	28.62	1.273e4	6.128e3	5.812e2	4.069e2	1.43	NO	9.881e2	0.36204	0.36204	0.125
2	Total Penta-Furans	28.79	2.635e4	1.792e4	1.801e3	1.084e3	1.66	NO	2.885e3	1.0570	1.0570	0.125
3	Total Penta-Furans	29.43	1.090e4	7.200e3	7.144e2	4.447e2	1.61	NO	1.159e3	0.42469	0.42469	0.125
4	1,2,3,7,8-PeCDF	29.77	7.666e3	6.642e3	3.036e2	2.218e2	1.37	NO	5.254e2	0.18746	0.18746	0.122
5	Total Penta-Furans	30.02	8.225e3	4.887e3	4.853e2	2.999e2	1.62	NO	7.853e2	0.28773	0.28773	0.125
6	Total Penta-Furans	30.64	4.262e3	3.127e3	2.085e2	1.398e2	1.49	NO	3.483e2	0.12764	0.12764	0.125
7	2,3,4,7,8-PeCDF	30.82	1.554e4	1.003e4	8.123e2	4.820e2	1.69	NO	1.294e3	0.43924	0.43924	0.115

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-15B.qld

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Printed: Friday, October 23, 2020 07:55:44 Pacific Daylight Time

Name: 201009R5\_15, Date: 10-Oct-2020, Time: 02:34:51, ID: 2001995-03RE2 PDI-068SC-A-08-09-200430 16.32, Description: PDI-068SC-A-08-09-200430

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.12	1.065e4	9.370e3	6.210e2	5.052e2	1.23	NO	1.126e3	0.51125	0.51125	0.135
2	Total Hexa-Furans	32.31	3.162e4	2.630e4	1.639e3	1.424e3	1.15	NO	3.063e3	1.3904	1.3904	0.135
3	Total Hexa-Furans	32.93	2.733e4	2.181e4	1.434e3	1.055e3	1.36	NO	2.489e3	1.1298	1.1298	0.135
4	Total Hexa-Furans	33.27	2.581e3	3.676e3	1.701e2	1.603e2	1.06	NO	3.305e2	0.15001	0.15001	0.135
5	1,2,3,4,7,8-HxCDF	33.41	1.434e4	1.286e4	8.155e2	7.306e2	1.12	NO	1.546e3	0.68362	0.68362	0.120
6	1,2,3,6,7,8-HxCDF	33.55	8.466e3	7.075e3	5.824e2	4.169e2	1.40	NO	9.993e2	0.42954	0.42954	0.117
7	2,3,4,6,7,8-HxCDF	34.21	6.367e3	5.341e3	3.750e2	3.438e2	1.09	NO	7.189e2	0.32642	0.32642	0.139

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	36.78	3.656e4	3.866e4	3.471e3	3.389e3	1.02	NO	6.860e3	4.2655	4.2655	0.154
2	Total Hepta-Furans	37.50	2.737e4	2.658e4	2.186e3	2.248e3	0.97	NO	4.434e3	3.1648	3.1648	0.164
3	1,2,3,4,7,8,9-HpCDF	38.76	3.611e3	3.106e3	2.611e2	2.463e2	1.06	NO	5.075e2	0.38110	0.38110	0.159

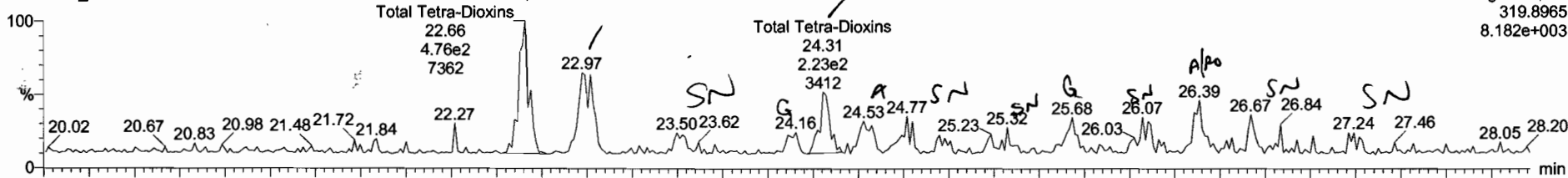
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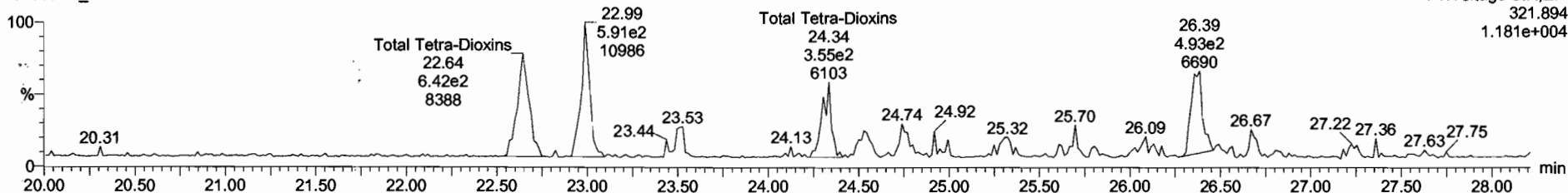
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**2,3,7,8-TCDD**

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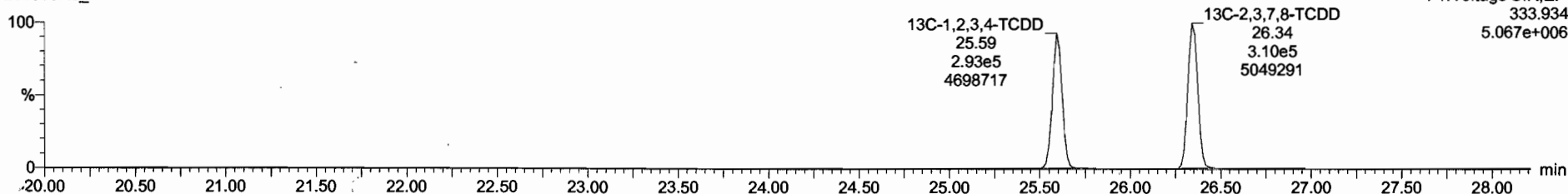


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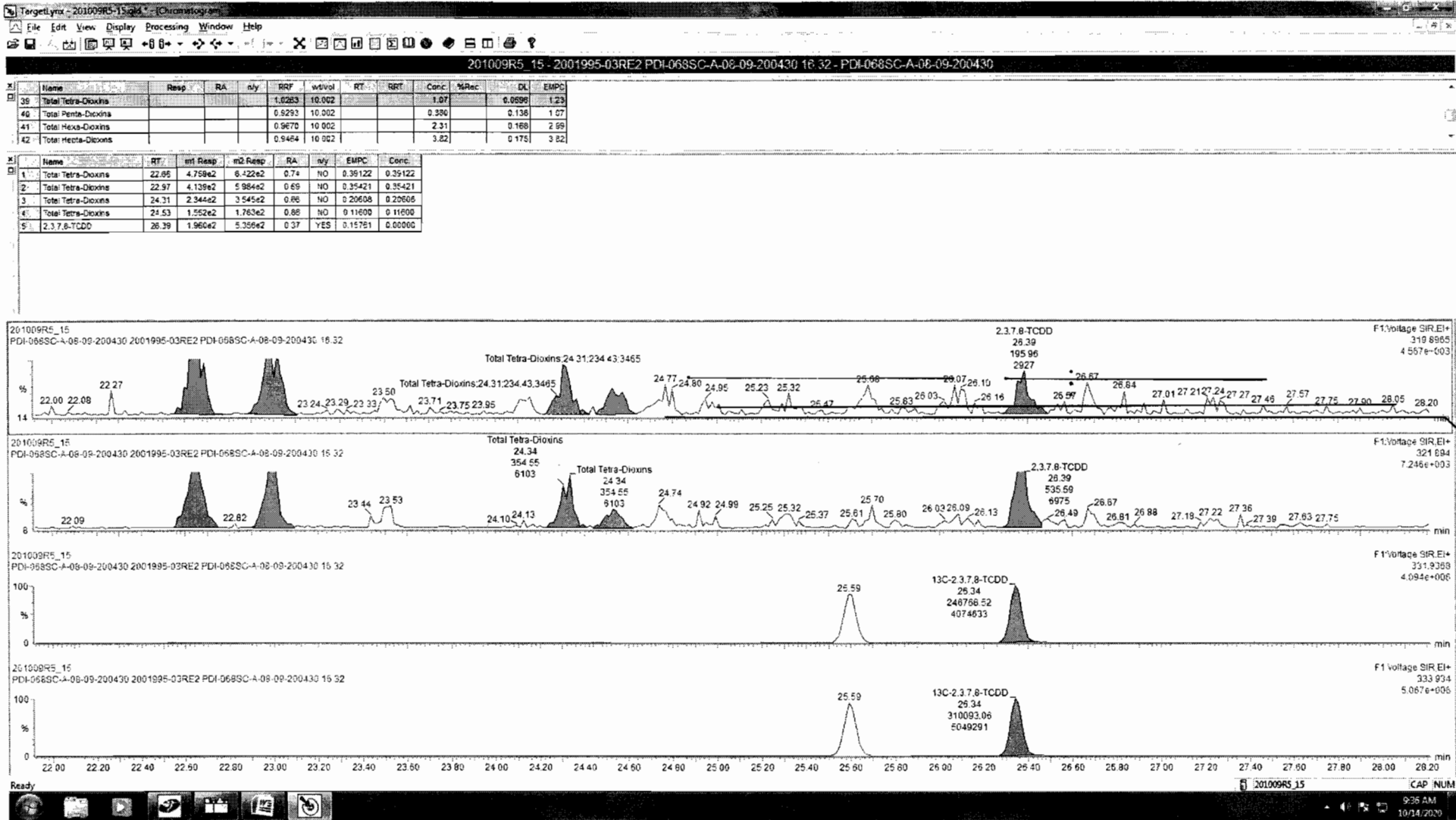
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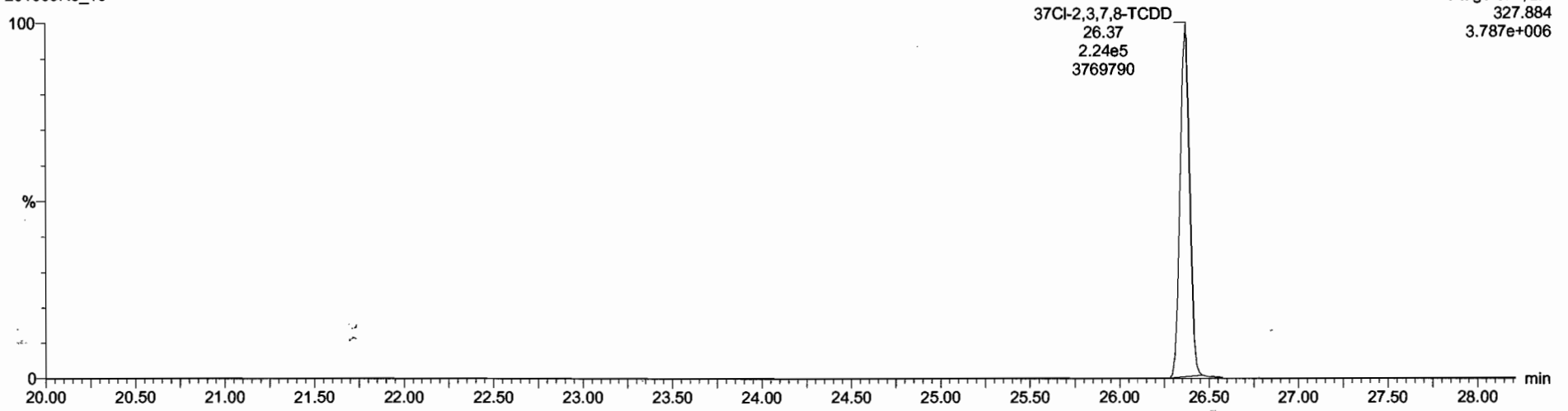
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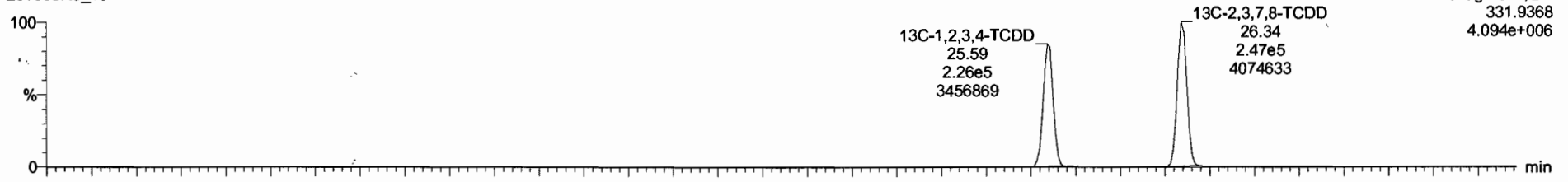
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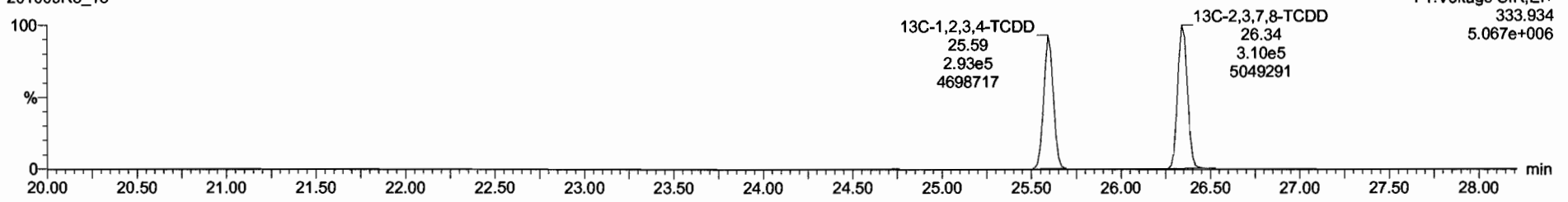


**13C-1,2,3,4-TCDD**

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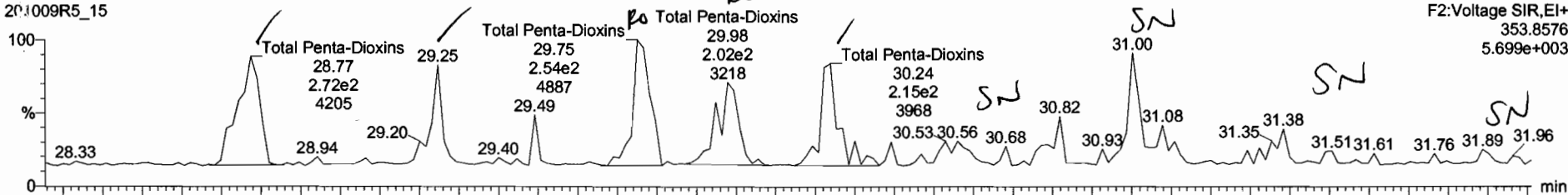
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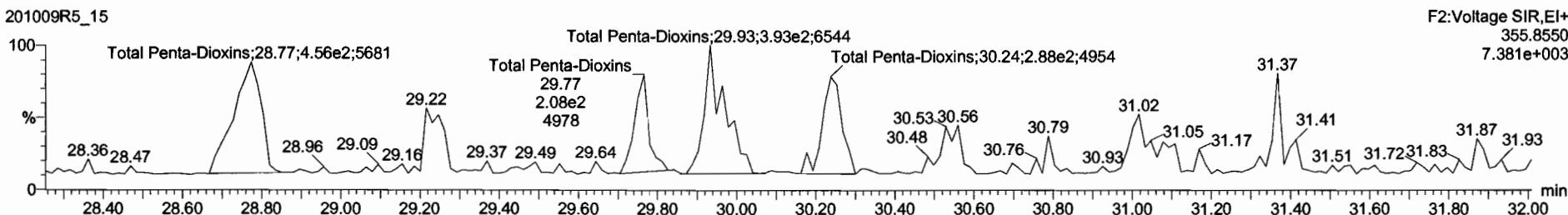
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1,2,3,7,8-PeCDD

201009R5\_15



201009R5\_15

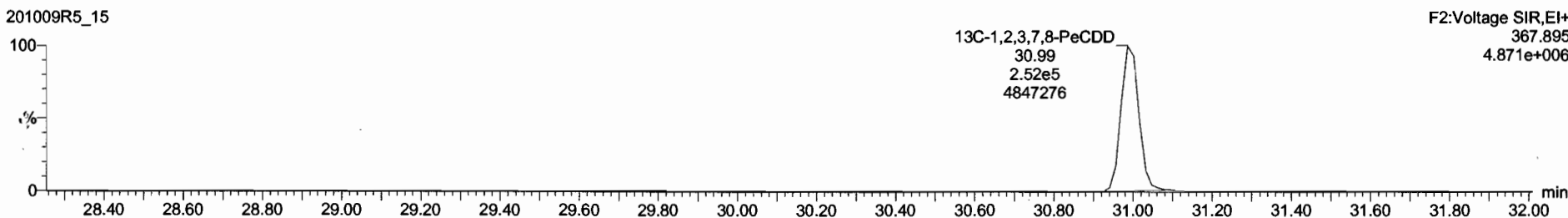


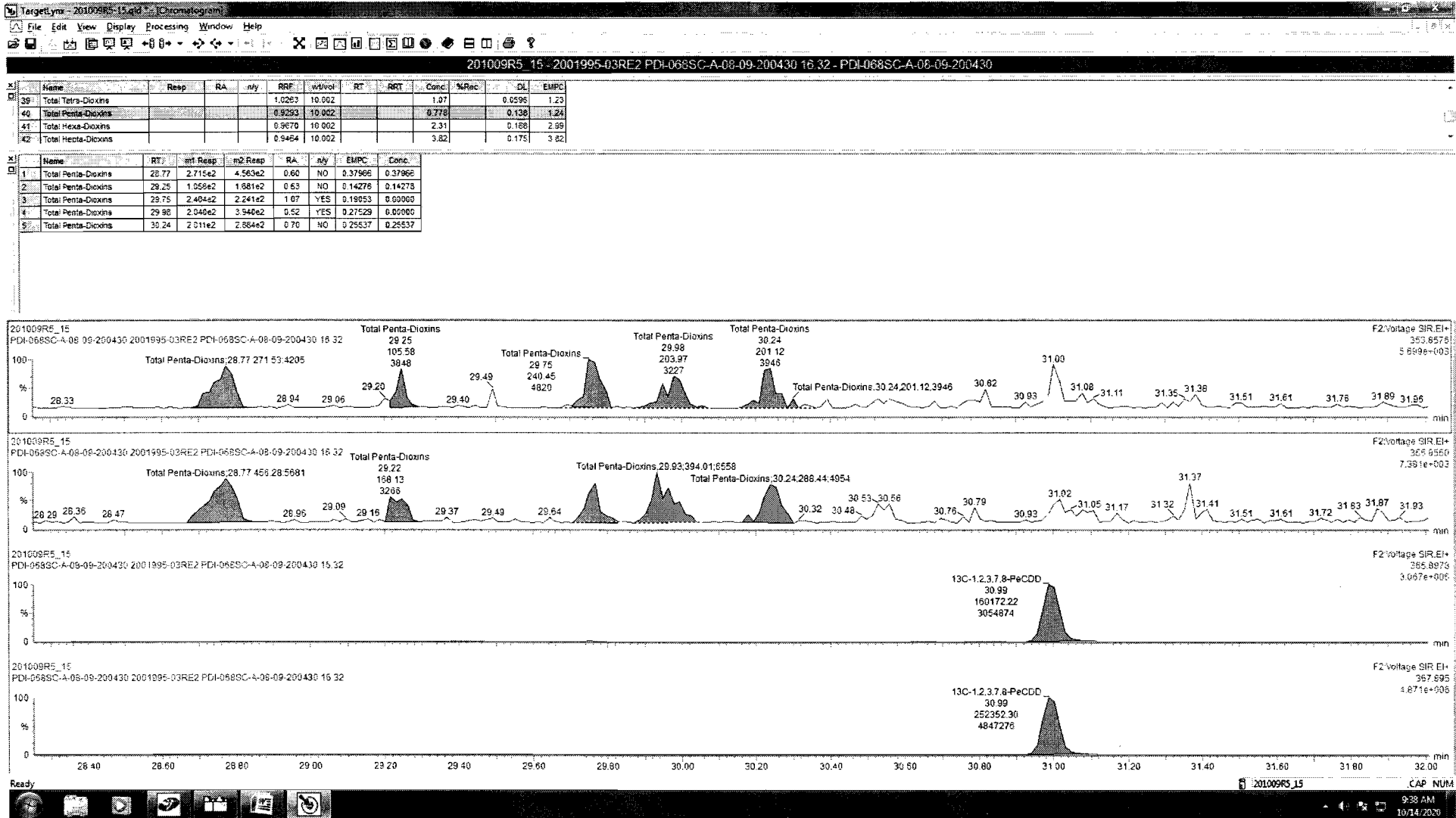
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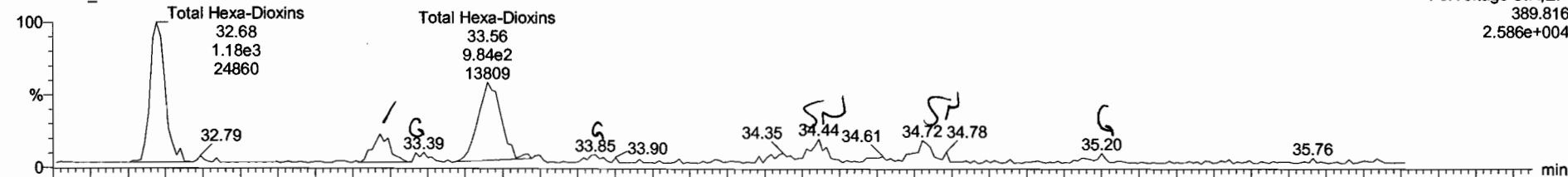
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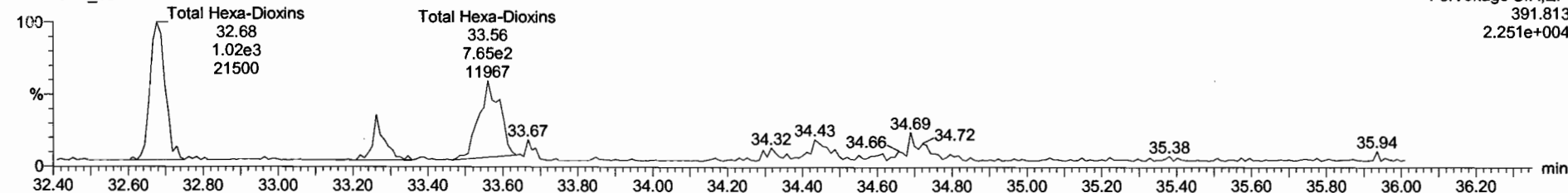
1,2,3,4,7,8-HxCDD

201009R5\_15



F3:Voltage SIR,EI+  
389,816  
2.586e+004

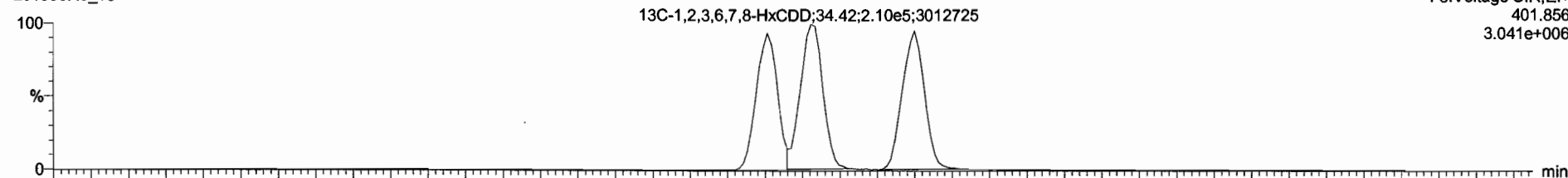
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2.251e+004

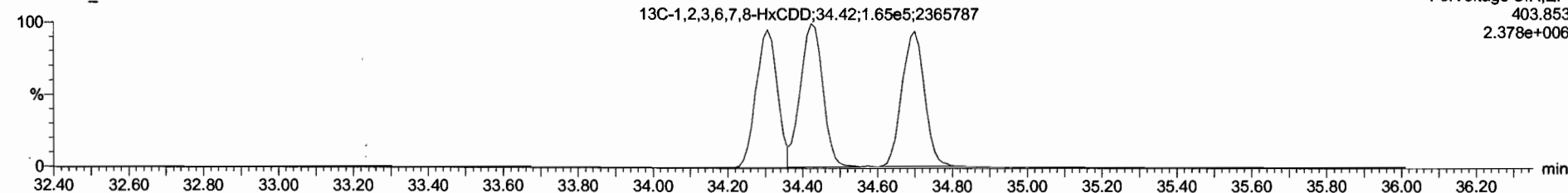
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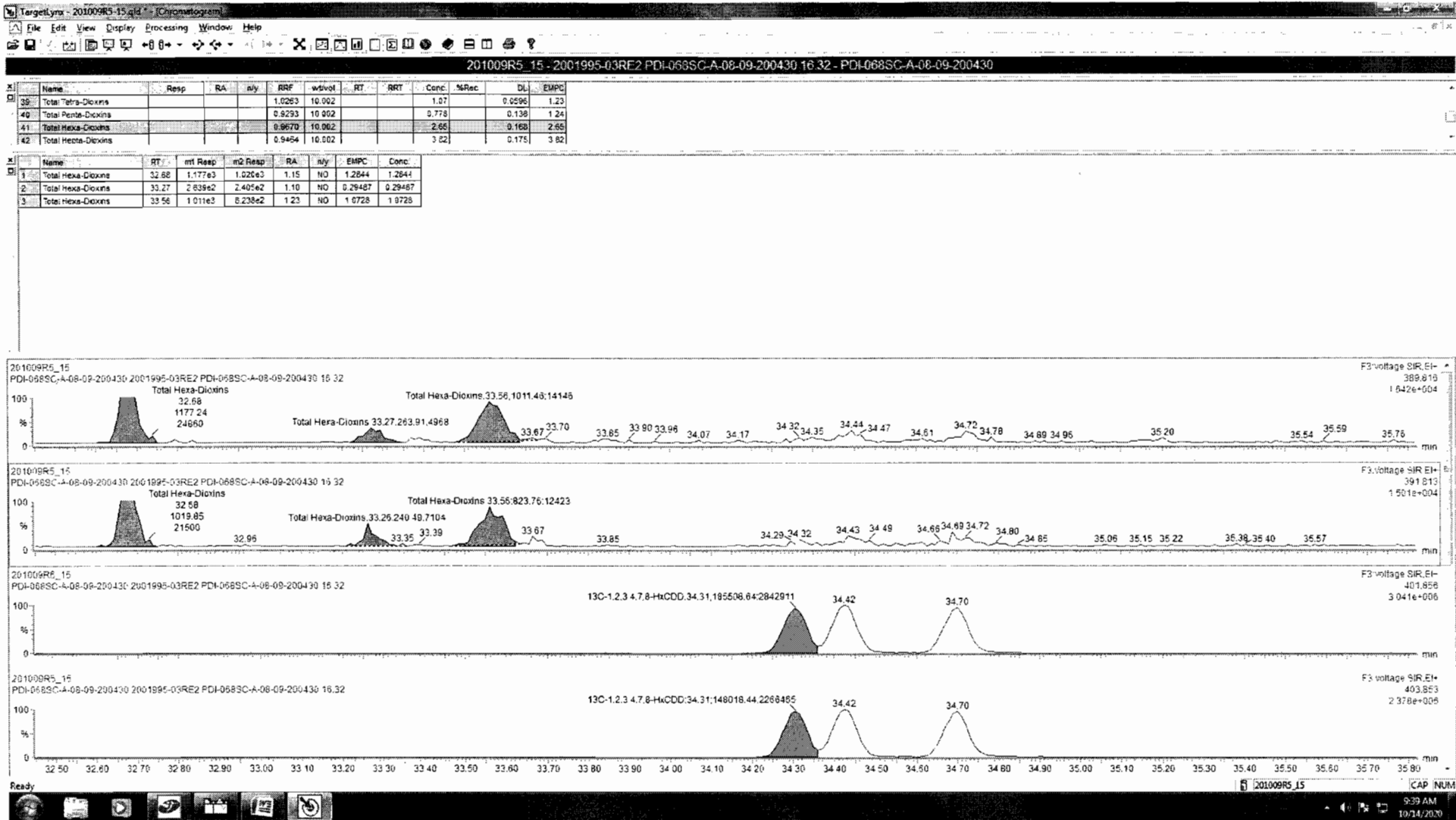


F3:Voltage SIR,EI+  
401,856  
3.041e+006

201009R5\_15



F3:Voltage SIR,EI+  
403,853  
2.378e+006



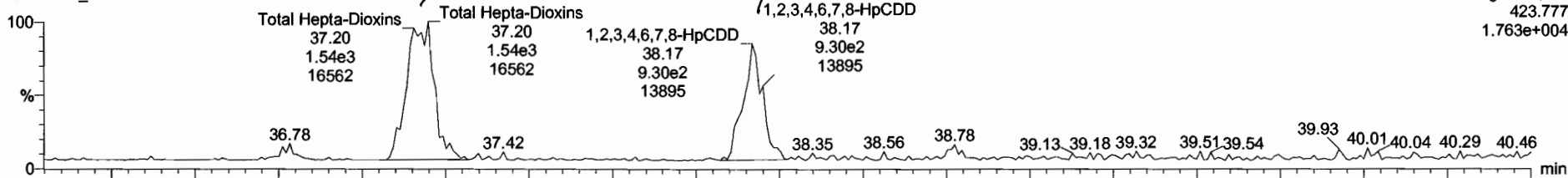
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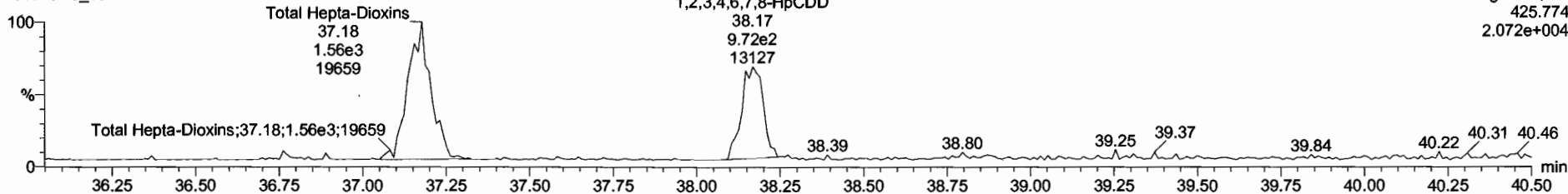
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1,2,3,4,6,7,8-HpCDD

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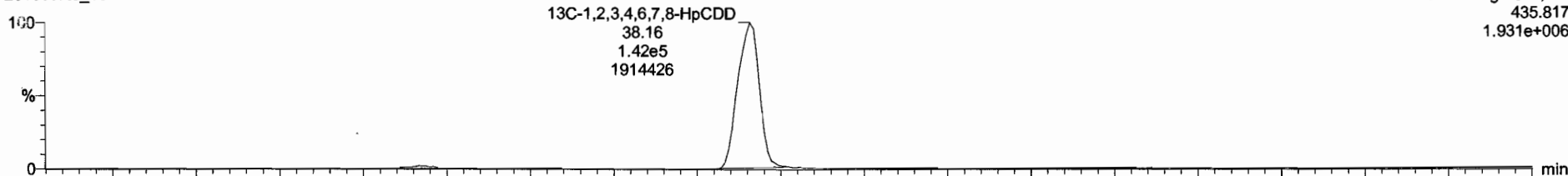


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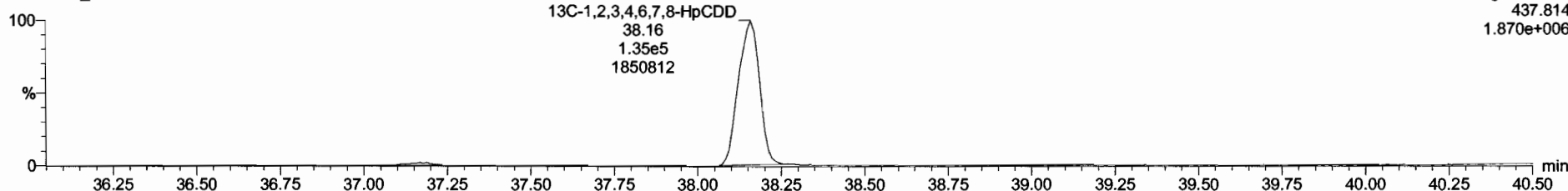


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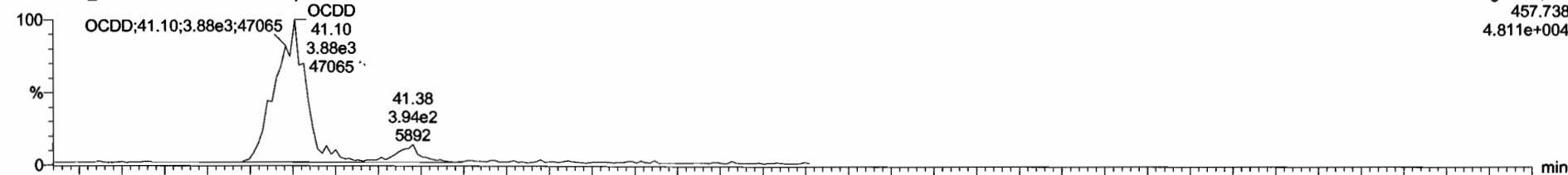
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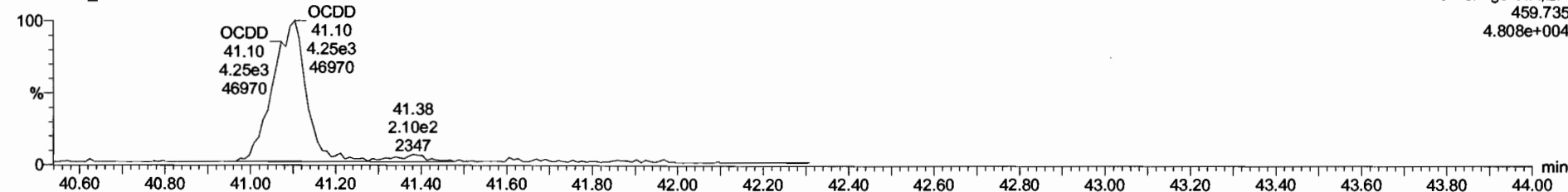
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**OCDD**

201009R5\_15



201009R5\_15

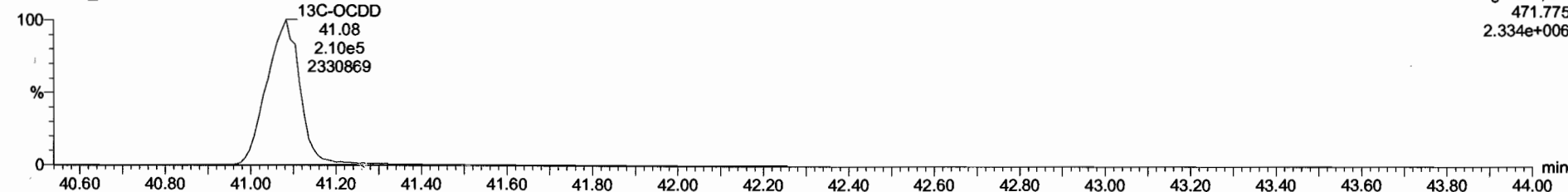


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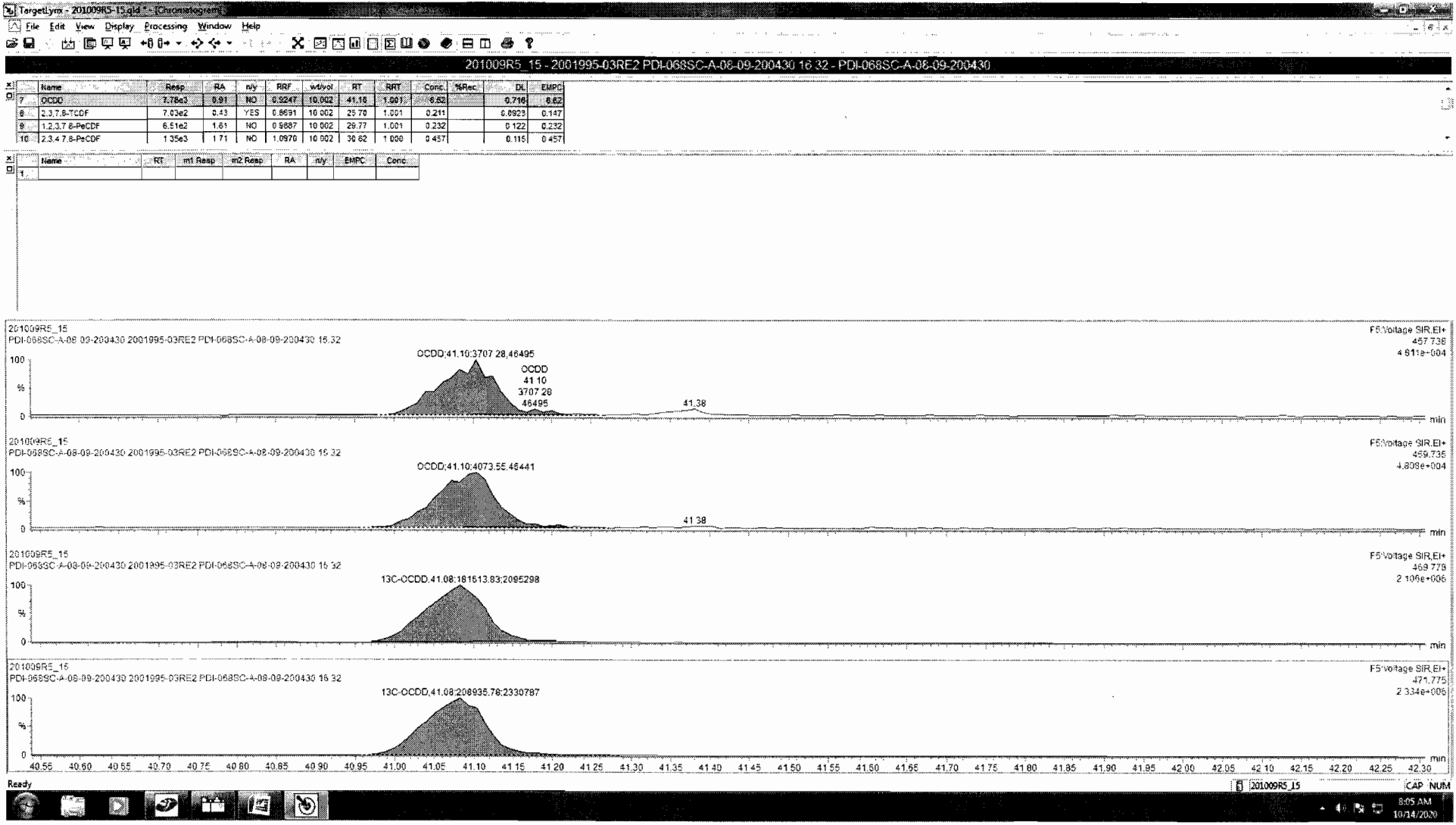
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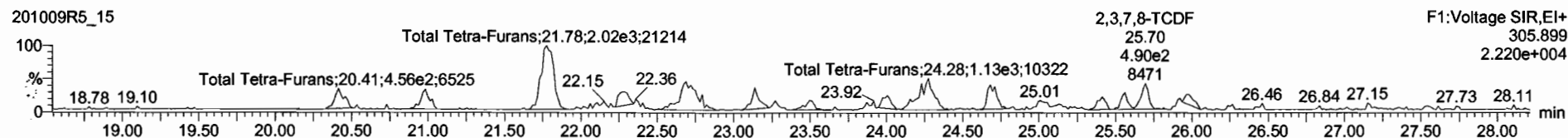
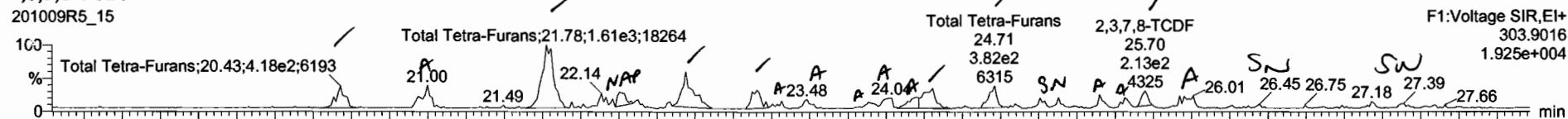


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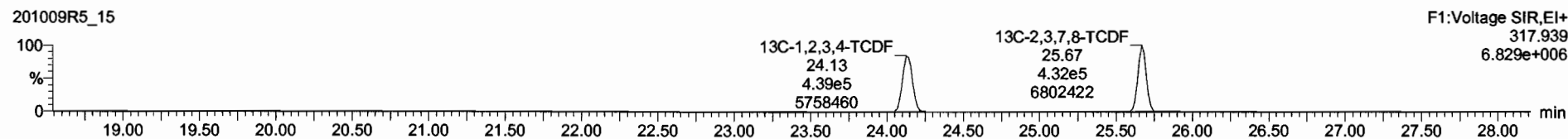
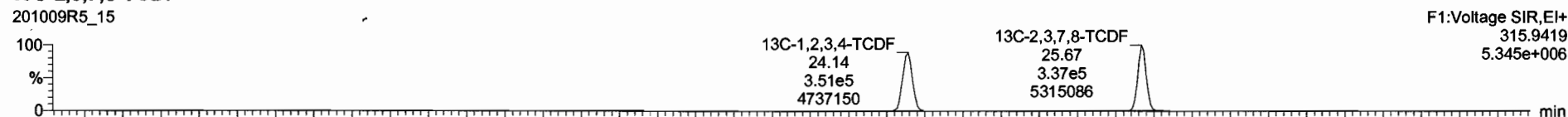
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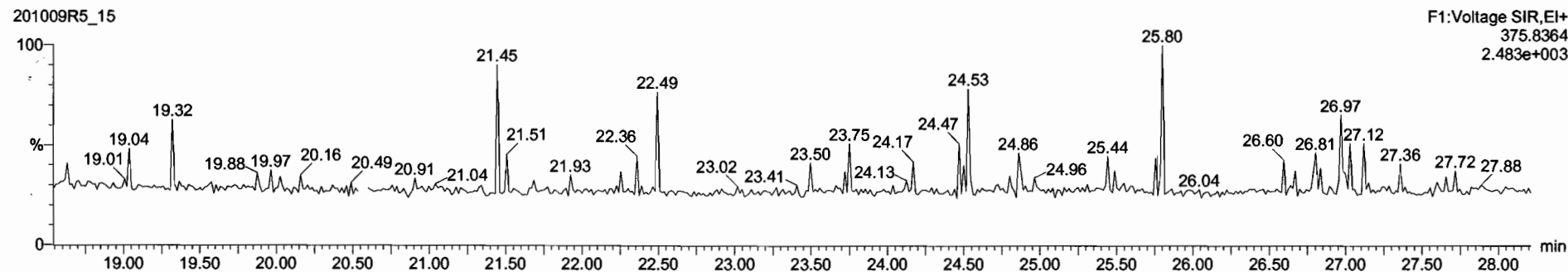
**2,3,7,8-TCDF**

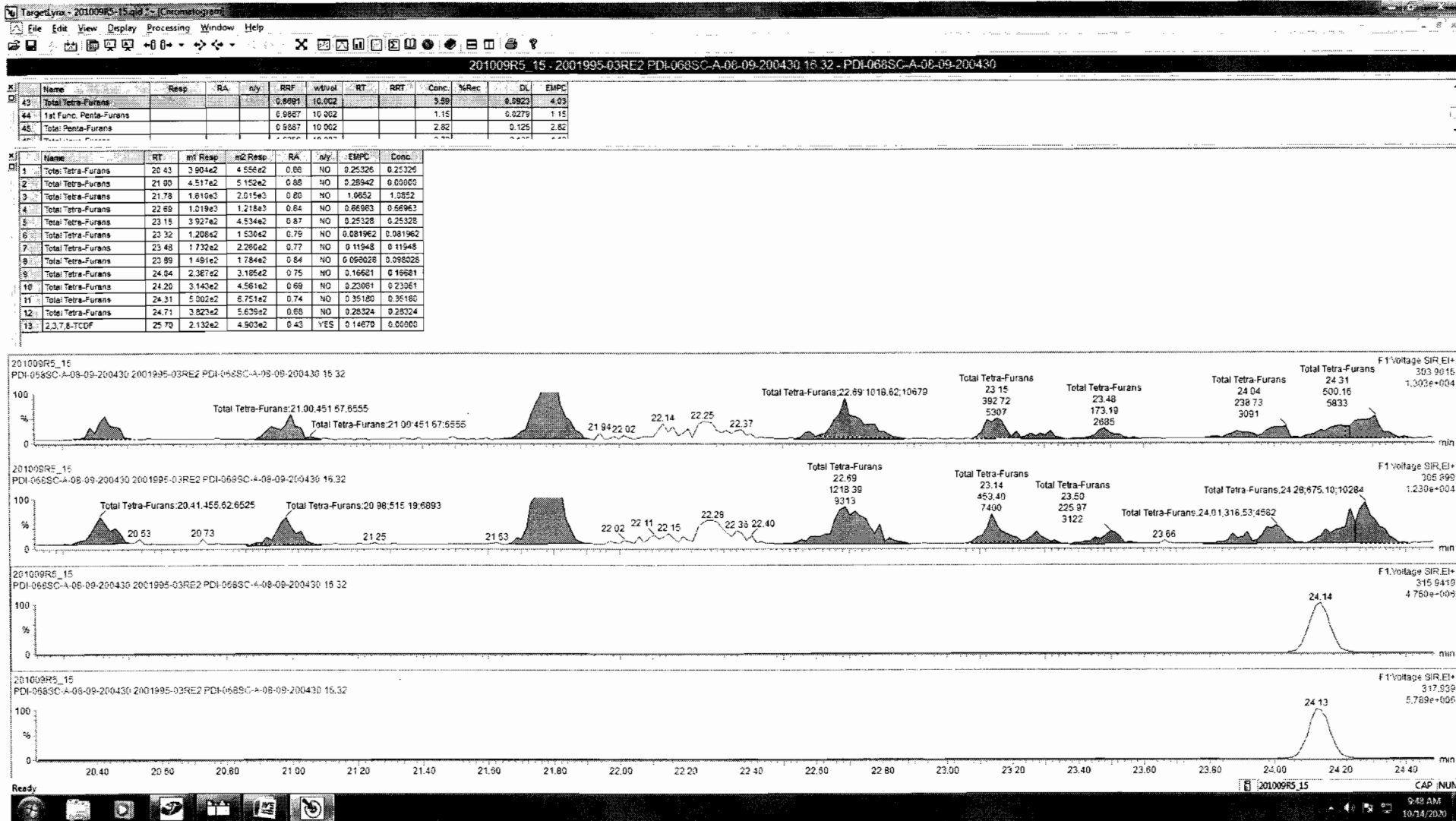


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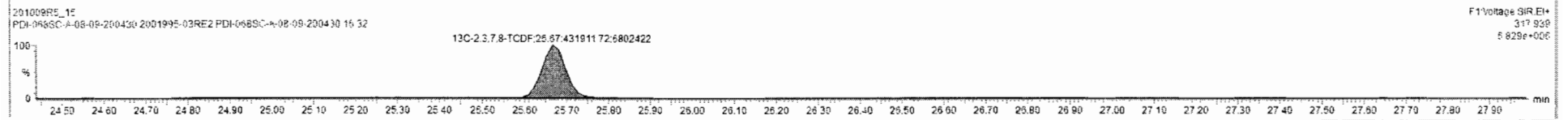
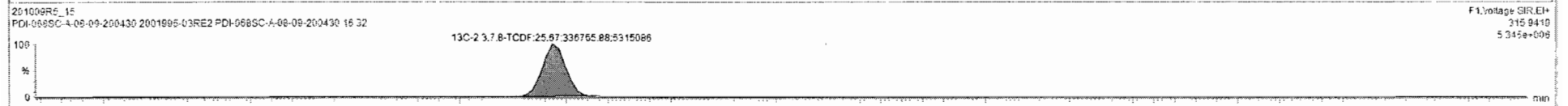
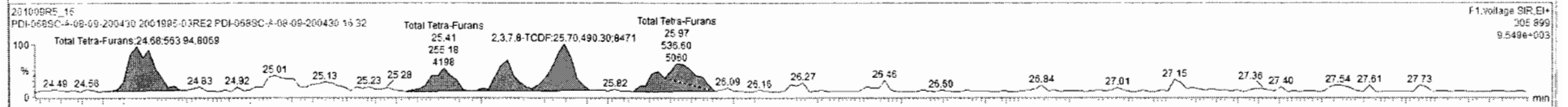
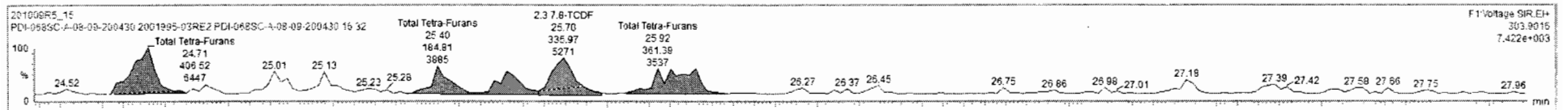
**DPE1**





Name	Resp	RA	nly	RRF	rdvol	RT	RRT	Conc.	NRec	DL	EMPC
43 Total Tetra-Furans				0.9881	10.002			4.39		0.0023	4.68
44 1st Func. Penta-Furans				0.9887	10.002			1.15		0.0279	1.15
45 Total Penta-Furans				0.9887	10.002			2.62		0.125	2.92

Name	RT	Int Resp	Int2 Resp	RA	nly	EMPC	Conc.
3 Total Tetra-Furans	21.78	1.610e3	2.015e3	0.80	NO	1.0852	1.0852
4 Total Tetra-Furans	22.89	1.019e3	1.218e3	0.84	NO	0.88963	0.88963
5 Total Tetra-Furans	23.15	3.927e2	4.534e2	0.87	NO	0.75328	0.25328
6 Total Tetra-Furans	23.32	1.208e2	1.536e2	0.79	NO	0.081962	0.081962
7 Total Tetra-Furans	23.48	1.732e2	2.260e2	0.77	NO	0.11948	0.11948
8 Total Tetra-Furans	23.86	1.491e2	1.784e2	0.84	NO	0.098028	0.098028
9 Total Tetra-Furans	24.04	2.387e2	3.185e2	0.75	NO	0.16881	0.16881
10 Total Tetra-Furans	24.20	3.143e2	4.561e2	0.69	NO	0.23081	0.23081
11 Total Tetra-Furans	24.31	5.002e2	6.751e2	0.74	NO	0.35180	0.35180
12 Total Tetra-Furans	24.71	4.085e2	5.639e2	0.72	NO	0.29050	0.29050
13 Total Tetra-Furans	25.40	1.848e2	2.552e2	0.72	NO	0.13171	0.13171
14 Total Tetra-Furans	25.56	2.050e2	2.784e2	0.74	NO	0.14470	0.14470
15 2,3,7,8-TCDF	25.70	3.360e2	4.903e2	0.69	NO	0.24733	0.24733
16 Total Tetra-Furans	25.92	3.814e2	5.386e2	0.67	NO	0.26880	0.26880



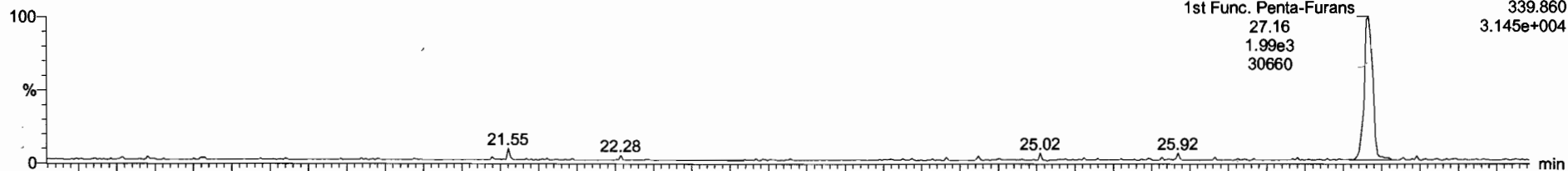
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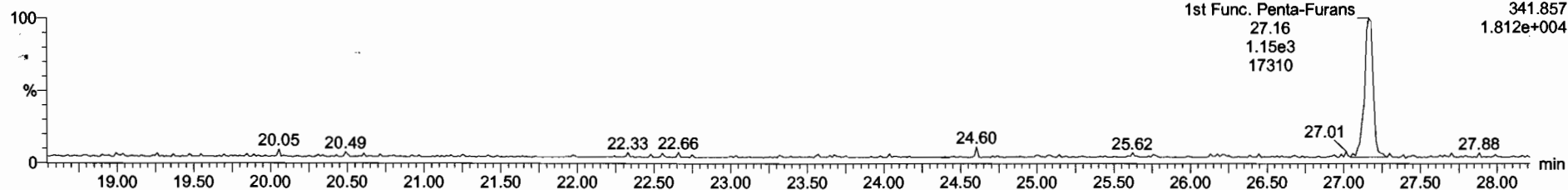
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1st Func. Penta-Furans

201009R5\_15

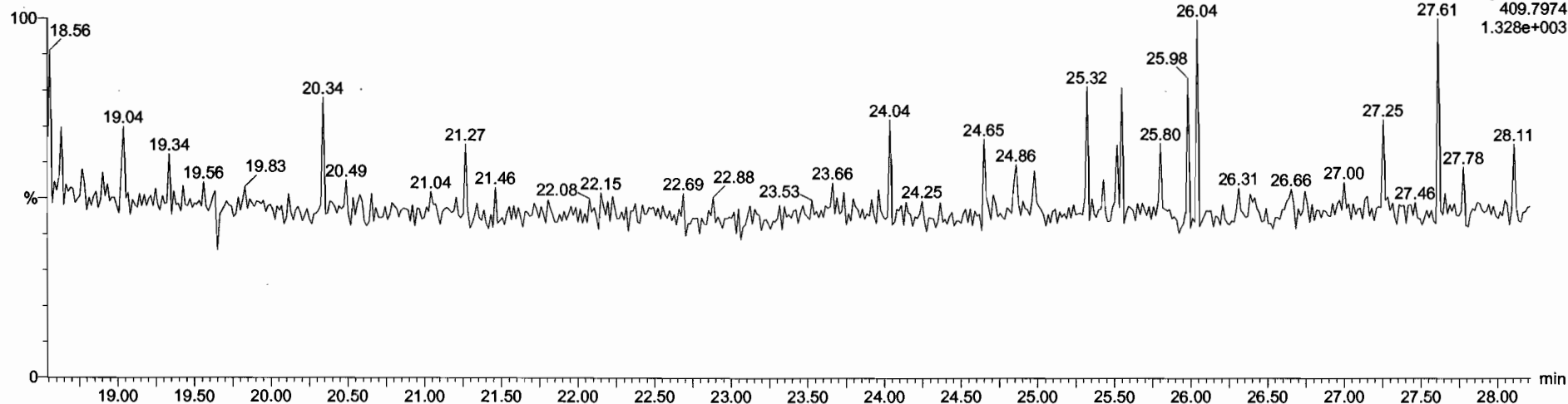


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DPE6

201009R5\_15

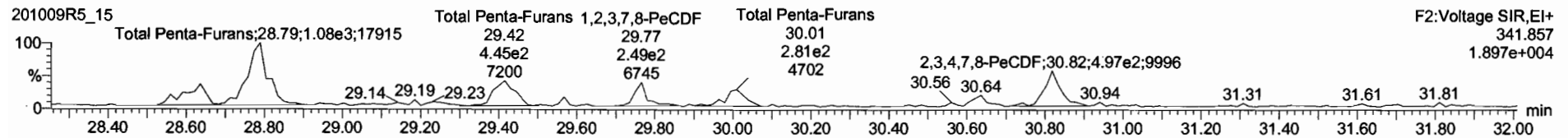
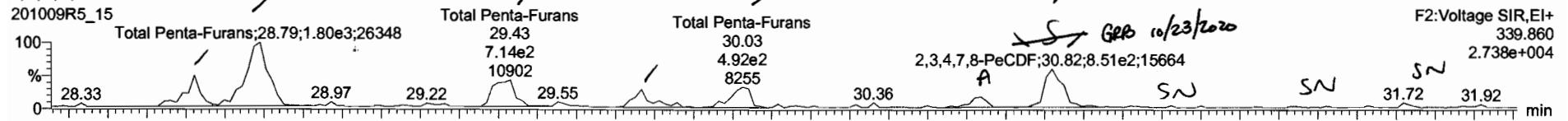


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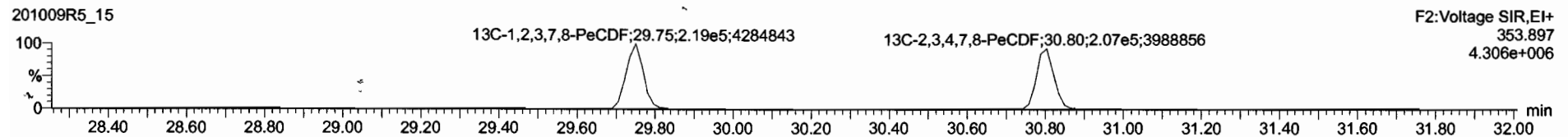
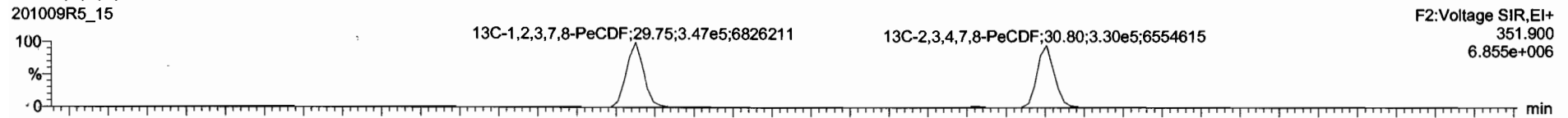
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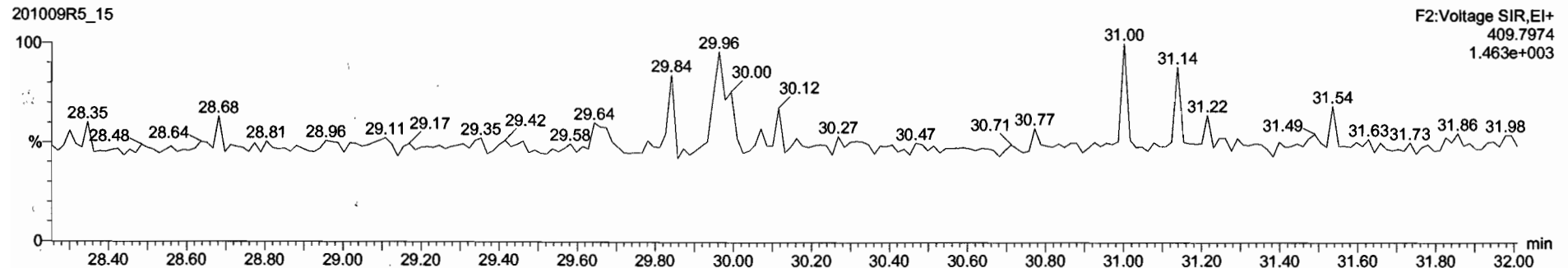
**1,2,3,7,8-PeCDF**

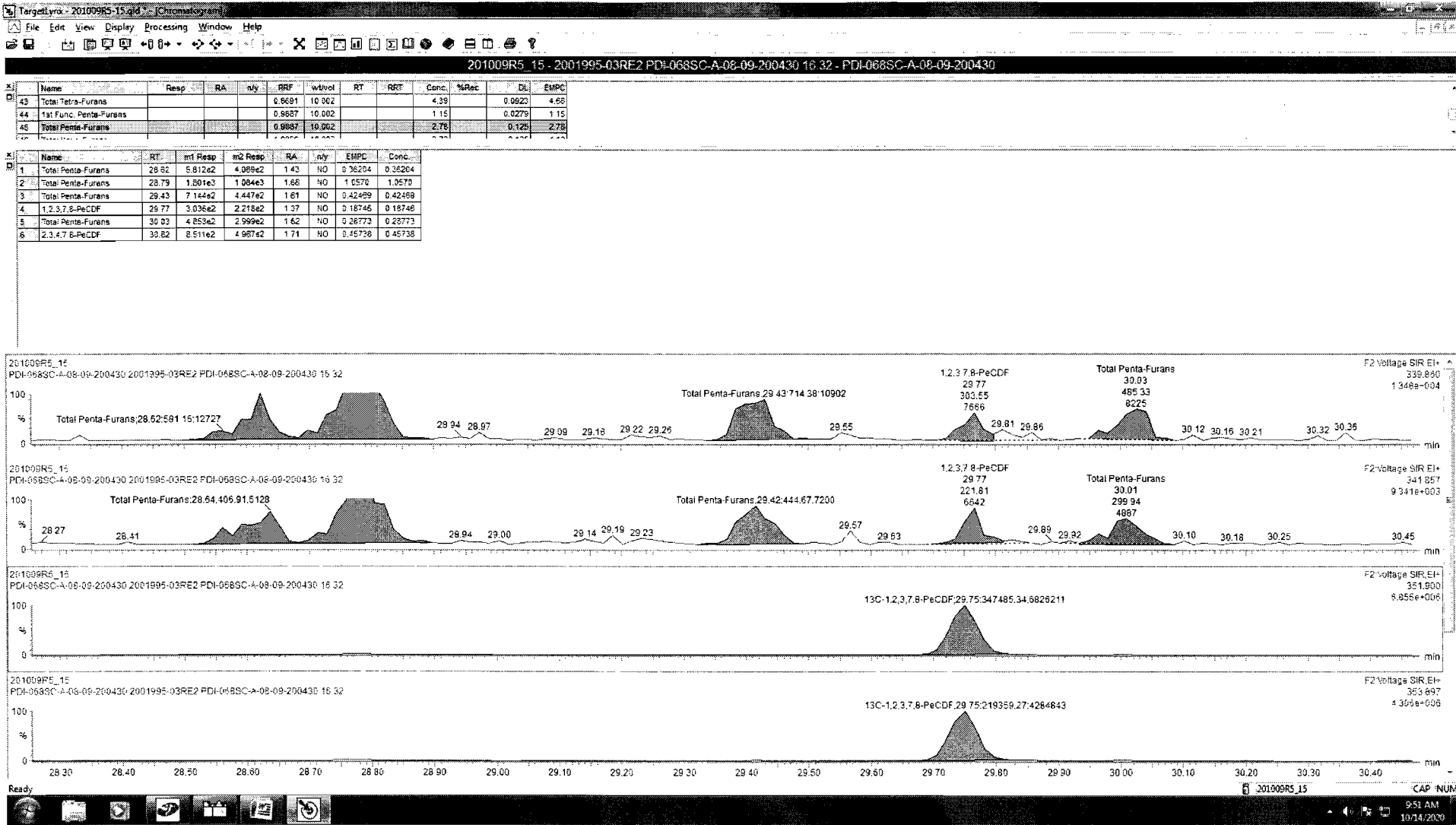


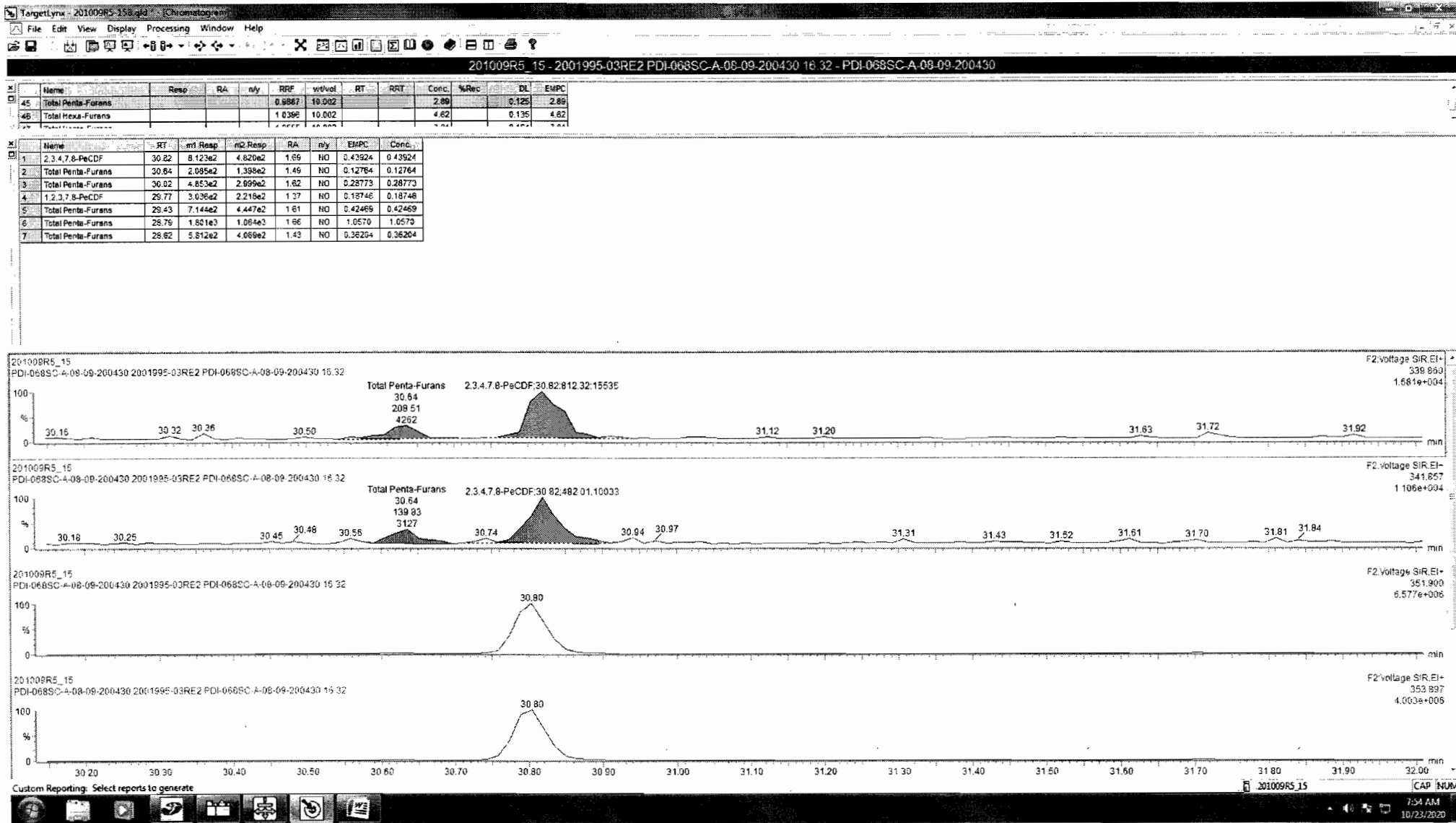
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**DPE2**









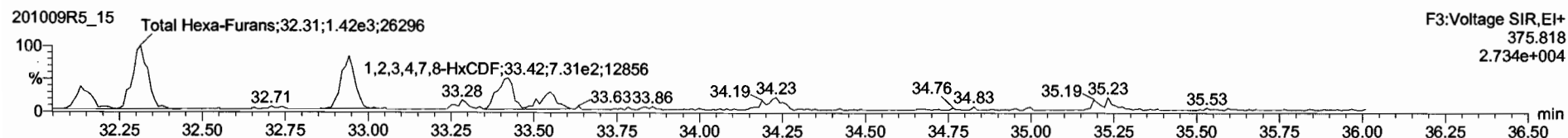
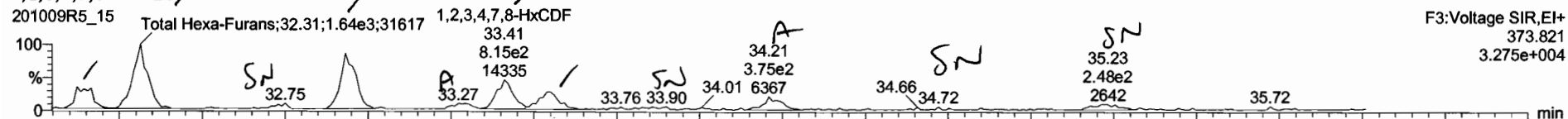
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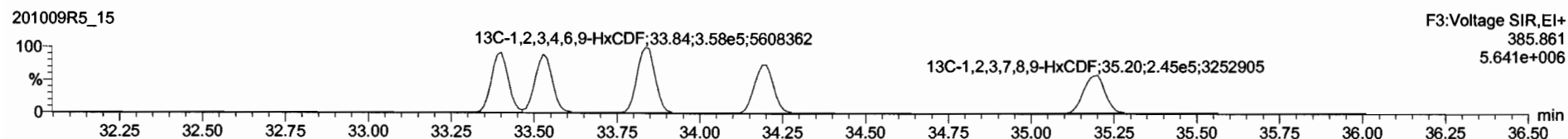
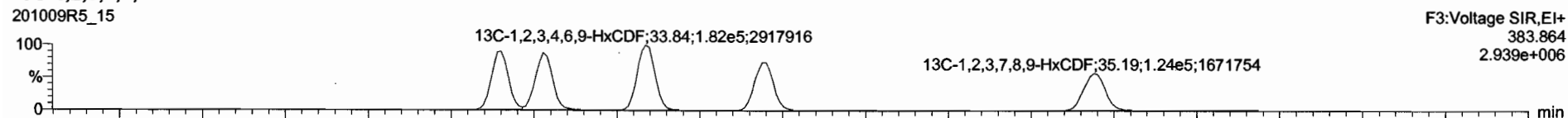
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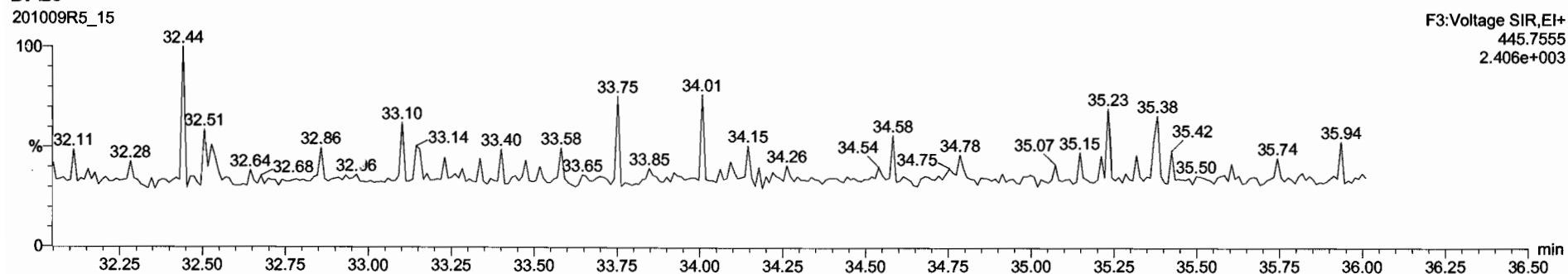
**1,2,3,4,7,8-HxCDF**

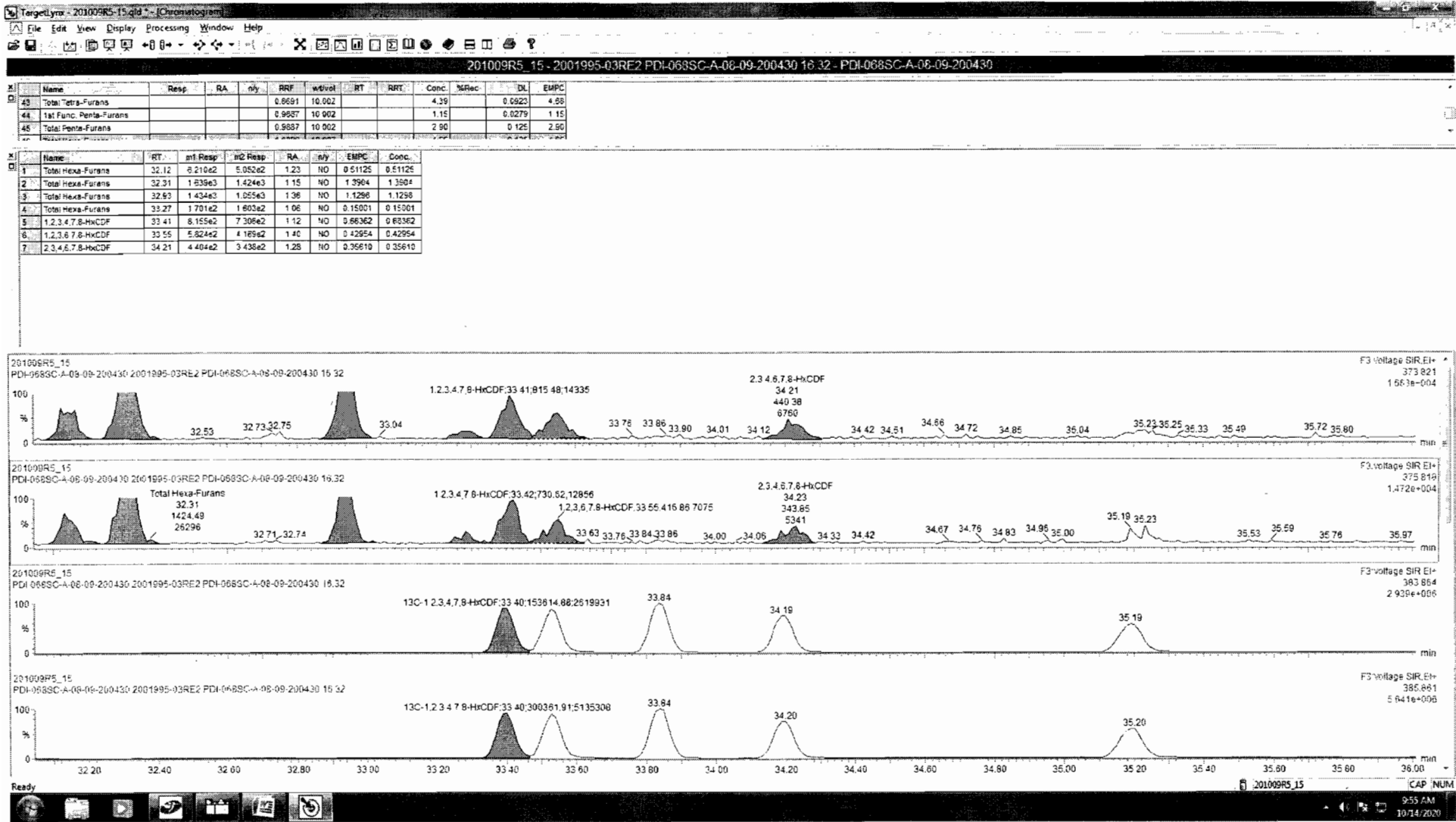


**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



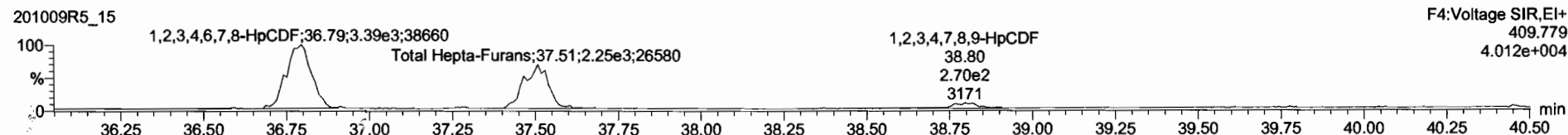
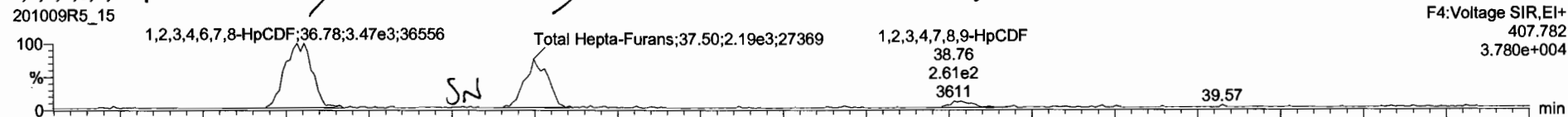


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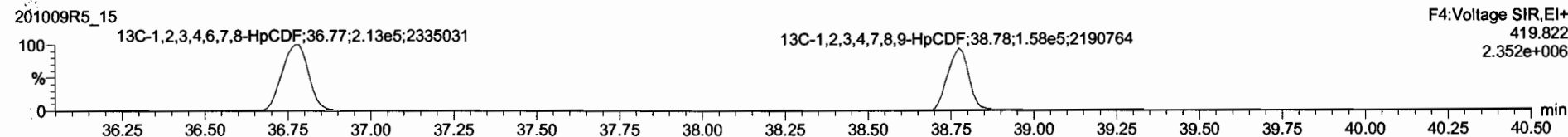
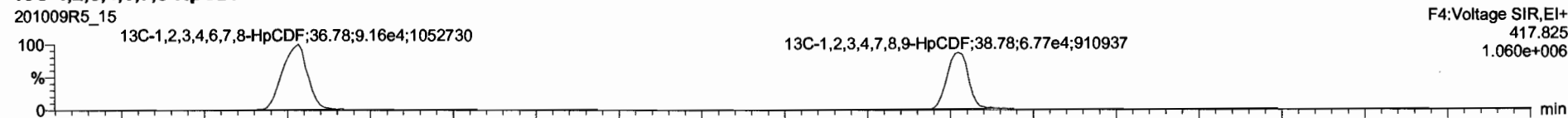
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Name: 201009R5\_15, Date: 10-Oct-2020, Time: 02:34:51, ID: 2001995-03RE2 PDI-068SC-A-08-09-200430 16.32, Description: PDI-068SC-A-08-09-200430

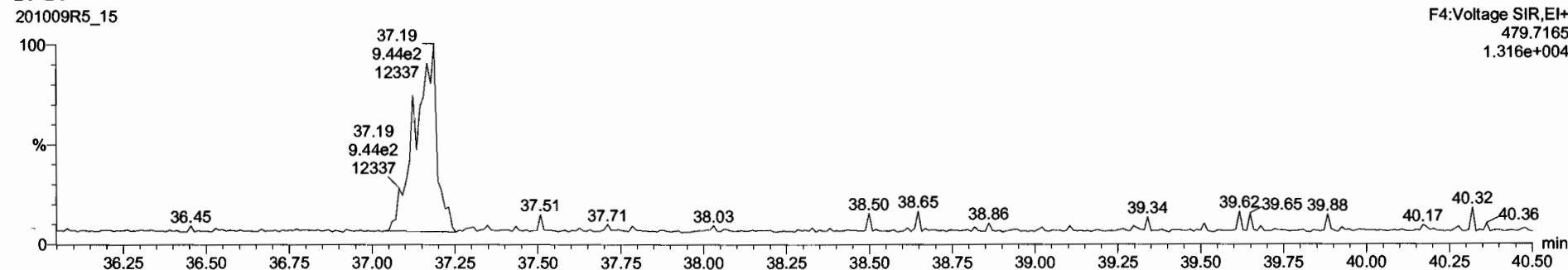
**1,2,3,4,6,7,8-HpCDF**

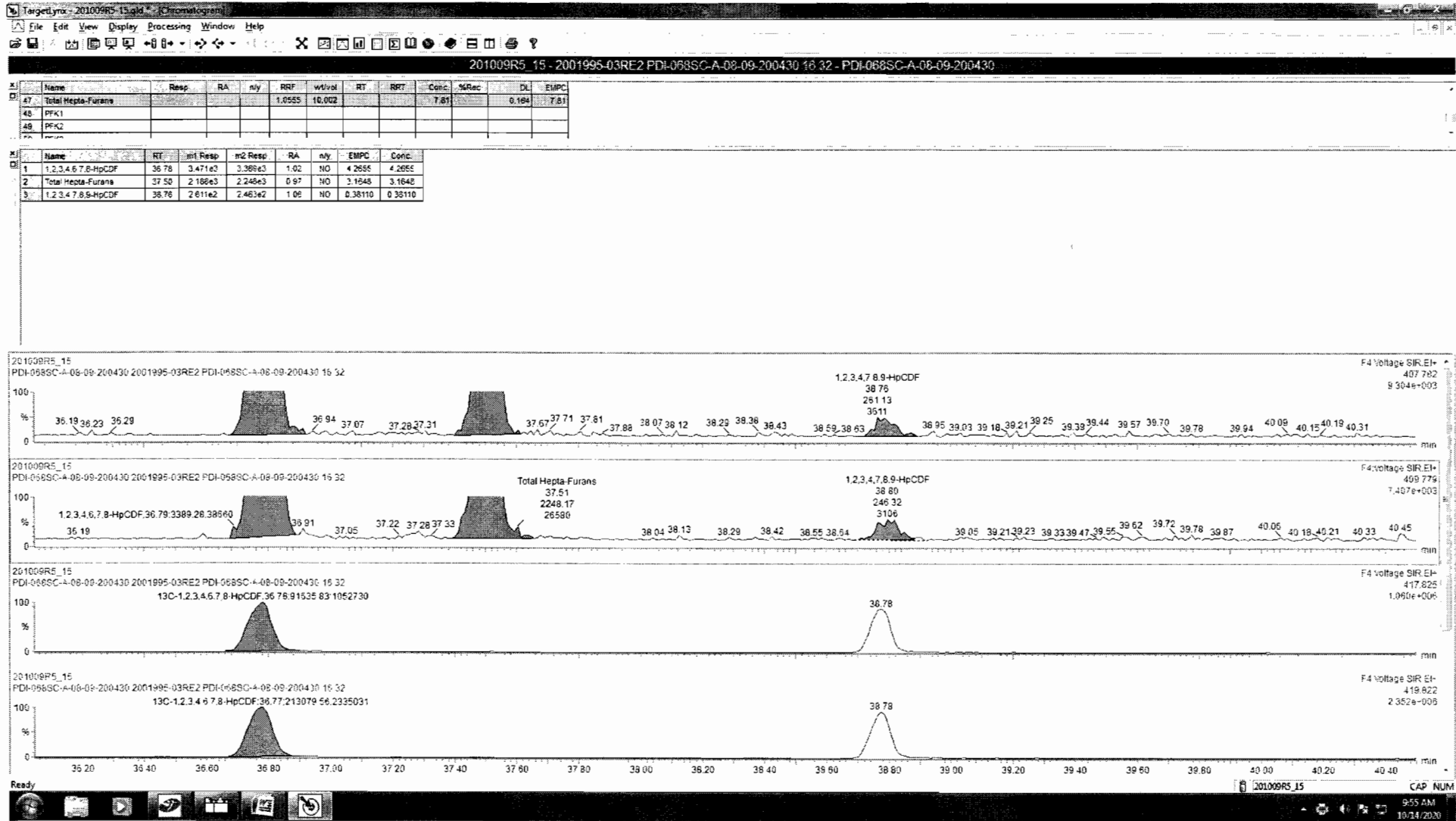


**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**





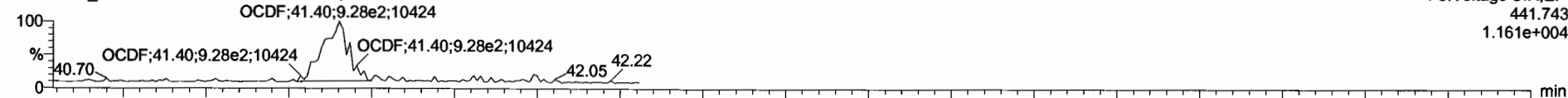
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Printed: Monday, October 12, 2020 15:20:57 Pacific Daylight Time

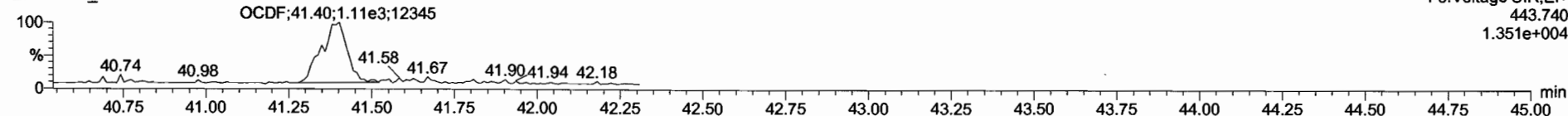
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**OCDF**

201009R5\_15

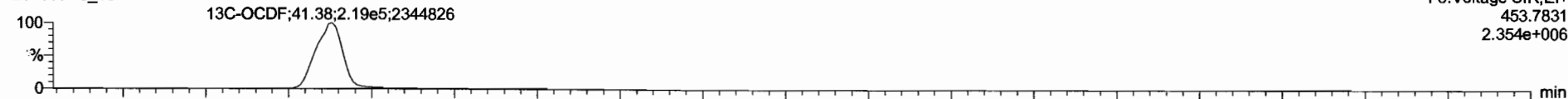


201009R5\_15

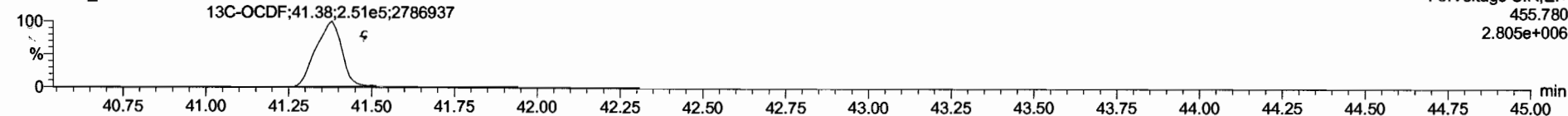


**13C-OCDF**

201009R5\_15

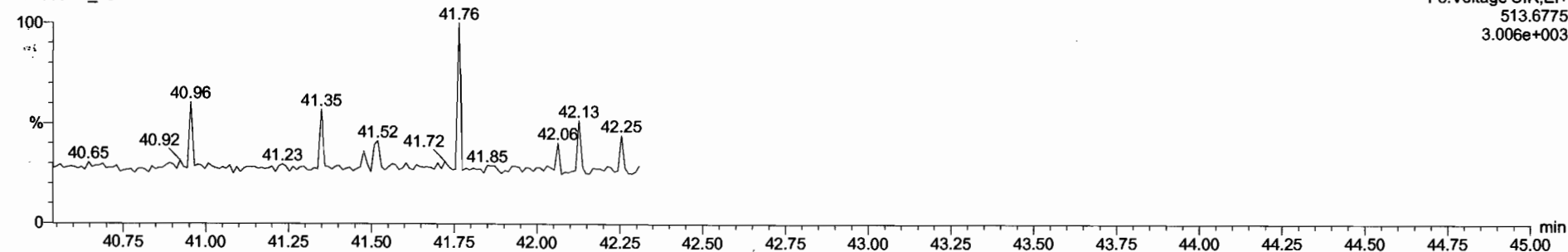


201009R5\_15



**DPE5**

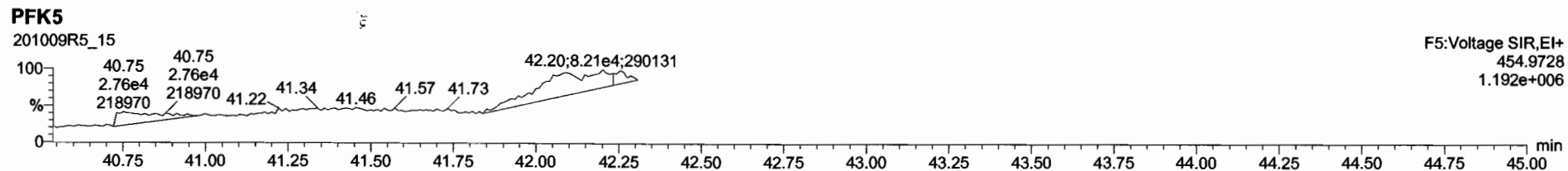
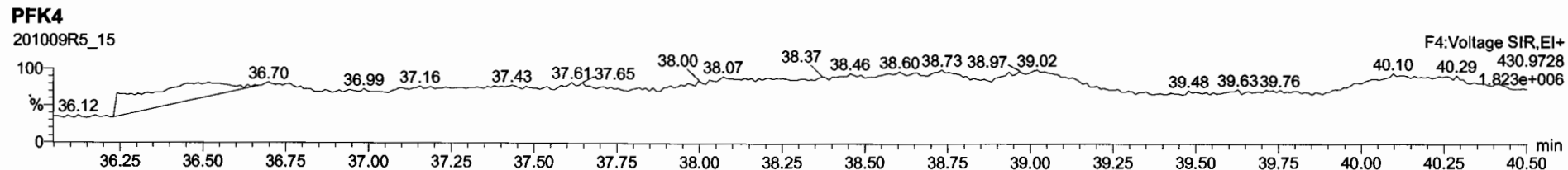
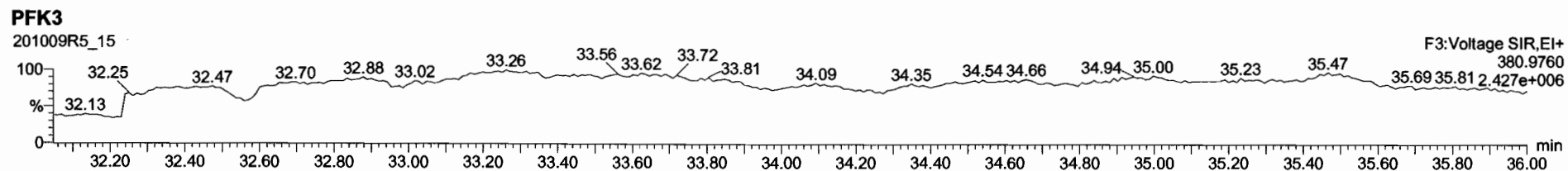
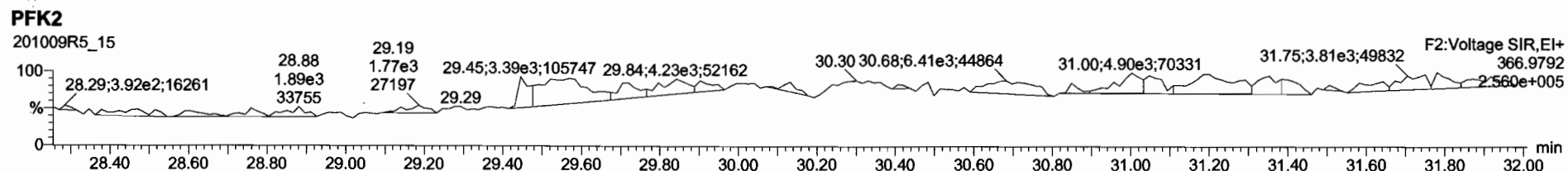
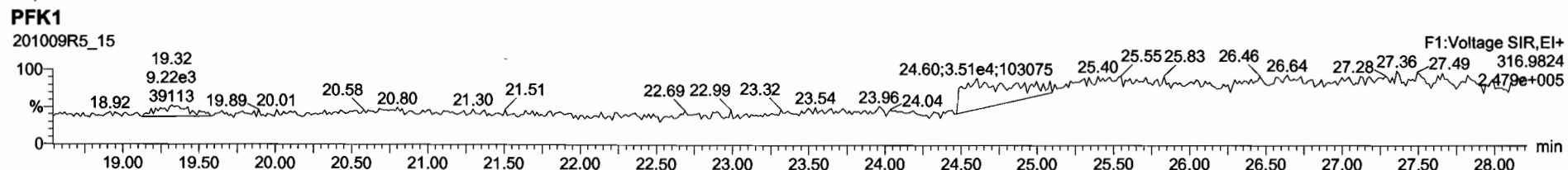
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Last Altered: Monday, October 12, 2020 15:17:13 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:20:57 Pacific Daylight Time

Name: 201009R5\_15, Date: 10-Oct-2020, Time: 02:34:51, ID: 2001995-03RE2 PDI-068SC-A-08-09-200430 16.32, Description: PDI-068SC-A-08-09-200430



Dataset: U:\VG12.PRO\Results\200930R1\200930R1-13.qld

Last Altered: Monday, October 05, 2020 15:12:56 Pacific Daylight Time  
Printed: Monday, October 05, 2020 15:13:42 Pacific Daylight Time

*GRB 10/05/2020*

Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

*MS  
10/20/20*

Name: 200930R1\_13, Date: 30-Sep-2020, Time: 18:55:38, ID: 2001995-04 PDI-068SC-A-09-10-200430 10, Description: PDI-068SC-A-09-10-200430

#	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	1.02	10.027	26.463		1.001				0.0509	
2	2 1,2,3,7,8-PeCDD			NO	0.956	10.027	31.085		1.001				0.0956	
3	3 1,2,3,4,7,8-HxCDD			NO	1.00	10.027	34.369		1.000				0.0759	
4	4 1,2,3,6,7,8-HxCDD	5.05e2	1.08	NO	0.888	10.027	34.476	34.50 ✓	1.000	1.001	0.12279		0.0799	0.123
5	5 1,2,3,7,8,9-HxCDD	7.25e2	1.15	NO	0.909	10.027	34.763	34.76 ✓	1.000	1.000	0.17009		0.0814	0.170
6	6 1,2,3,4,6,7,8-HpCDD	4.26e3	1.03	NO	0.832	10.027	38.201	38.20	1.000	1.000	1.2975		0.109	1.30
7	7 OCDD	2.50e4	0.88	NO	0.862	10.027	41.126	41.15	1.000	1.001	10.001		0.226	10.0
8	8 2,3,7,8-TCDF	1.28e3	0.76	NO	0.735	10.027	25.771	25.79	1.000	1.001	0.25651		0.0605	0.257
9	9 1,2,3,7,8-PeCDF	4.87e2	1.36	NO	0.939	10.027	29.848	29.84	1.001	1.001	0.078278		0.0410	0.0783
10	10 2,3,4,7,8-PeCDF	4.83e2	1.76	NO	1.05	10.027	30.865	30.88	1.000	1.000	0.070291		0.0344	0.0703
11	11 1,2,3,4,7,8-HxCDF	3.10e2	1.16	NO	0.842	10.027	33.454	33.48 ✓	1.000	1.001	0.073656		0.0444	0.0737
12	12 1,2,3,6,7,8-HxCDF	3.52e2	1.06	NO	0.894	10.027	33.592	33.59 ✓	1.000	1.000	0.079056		0.0420	0.0791
13	13 2,3,4,6,7,8-HxCDF	2.49e2	1.29	NO	0.870	10.027	34.274	34.28 ✓	1.001	1.001	0.057870		0.0476	0.0579
14	14 1,2,3,7,8,9-HxCDF	2.59e2	1.14	NO	0.855	10.027	35.254	35.26 ✓	1.000	1.000	0.068251		0.0584	0.0683
15	15 1,2,3,4,6,7,8-HpCDF	5.36e2	1.19	NO	0.891	10.027	36.874	36.84	1.001	1.000	0.15742		0.0574	0.157
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.00	10.027	38.818		1.000				0.0530	
17	17 OCDF			NO	0.784	10.027	41.424		1.000				0.116	
18	18 13C-2,3,7,8-TCDD	1.09e6	0.78	NO	1.15	10.027	26.420	26.43	1.029	1.029	166.33	83.4	0.143	
19	19 13C-1,2,3,7,8-PeCDD	9.95e5	0.62	NO	0.887	10.027	31.012	31.06	1.207	1.209	196.58	98.6	0.223	
20	20 13C-1,2,3,4,7,8-HxCDD	8.16e5	1.28	NO	0.801	10.027	34.362	34.36 ✓	1.014	1.014	182.82	91.7	0.306	
21	21 13C-1,2,3,6,7,8-HxCDD	9.23e5	1.28	NO	0.892	10.027	34.491	34.48 ✓	1.018	1.017	185.84	93.2	0.275	
22	22 13C-1,2,3,7,8,9-HxCDD	9.35e5	1.25	NO	0.882	10.027	34.752	34.75 ✓	1.025	1.025	190.19	95.3	0.278	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.88e5	1.04	NO	0.719	10.027	38.185	38.19	1.127	1.127	196.84	98.7	0.486	
24	24 13C-OCDD	1.16e6	0.89	NO	0.563	10.027	41.113	41.13	1.213	1.213	369.05	92.5	0.702	
25	25 13C-2,3,7,8-TCDF	1.35e6	0.77	NO	1.01	10.027	25.763	25.76	1.003	1.003	164.46	82.4	0.175	
26	26 13C-1,2,3,7,8-PeCDF	1.32e6	1.61	NO	0.814	10.027	29.772	29.83	1.159	1.161	199.60	100	0.329	
27	27 13C-2,3,4,7,8-PeCDF	1.31e6	1.58	NO	0.768	10.027	30.809	30.86	1.200	1.202	209.08	105	0.349	
28	28 13C-1,2,3,4,7,8-HxCDF	9.97e5	0.51	NO	0.993	10.027	33.440	33.45 ✓	0.987	0.987	180.34	90.4	0.440	
29	29 13C-1,2,3,6,7,8-HxCDF	9.93e5	0.51	NO	0.990	10.027	33.583	33.58 ✓	0.991	0.991	180.01	90.2	0.441	
30	30 13C-2,3,4,6,7,8-HxCDF	9.85e5	0.50	NO	0.944	10.027	34.250	34.25 ✓	1.011	1.011	187.31	93.9	0.462	
31	31 13C-1,2,3,7,8,9-HxCDF	8.86e5	0.50	NO	0.842	10.027	35.267	35.25	1.041	1.040	188.92	94.7	0.518	

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-13.qld

Last Altered: Monday, October 05, 2020 15:12:56 Pacific Daylight Time

Printed: Monday, October 05, 2020 15:13:42 Pacific Daylight Time

Name: 200930R1\_13, Date: 30-Sep-2020, Time: 18:55:38, ID: 2001995-04 PDI-068SC-A-09-10-200430 10, Description: PDI-068SC-A-09-10-200430

#	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	7.63e5	0.44	NO	0.687	10.027	36.856	36.84	1.087	1.087	199.41	100	0.457	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.20e5	0.43	NO	0.555	10.027	38.805	38.82	1.145	1.145	200.68	101	0.566	
34	34 13C-OCDF	1.27e6	0.88	NO	0.608	10.027	41.394	41.42	1.221	1.222	376.16	94.3	0.385	
35	35 37Cl-2,3,7,8-TCDD	3.88e5			1.18	10.027	26.451	26.45	1.030	1.030	57.640	72.2	0.0348	
36	36 13C-1,2,3,4-TCDD	1.14e6	0.77	NO	1.00	10.027	25.740	25.68	1.000	1.000	199.47	100	0.165	
37	37 13C-1,2,3,4-TCDF	1.62e6	0.79	NO	1.00	10.027	24.310	24.23	1.000	1.000	199.47	100	0.177	
38	38 13C-1,2,3,4,6,9-HxCDF	1.11e6	0.51	NO	1.00	10.027	33.920	33.89	1.000	1.000	199.47	100	0.436	
39	39 Total Tetra-Dioxins				1.02	10.027	24.620		0.000		1.2891		0.0509	1.29
40	40 Total Penta-Dioxins				0.956	10.027	29.960		0.000		0.65079		0.0956	0.884
41	41 Total Hexa-Dioxins				0.888	10.027	33.635		0.000		2.4593		0.0829	2.46
42	42 Total Hepta-Dioxins				0.832	10.027	37.640		0.000		3.6497		0.109	3.65
43	43 Total Tetra-Furans				0.735	10.027	23.610		0.000		3.2573		0.0605	4.01
44	44 1st Func. Penta-Furans				0.939	10.027	27.230		0.000		0.13210		0.0134	0.132
45	45 Total Penta-Furans				0.939	10.027	29.275		0.000		0.55087		0.0397	0.642
46	46 Total Hexa-Furans				0.870	10.027	33.555		0.000		0.55763		0.0475	0.558
47	47 Total Hepta-Furans				0.891	10.027	37.835		0.000		0.15742		0.0584	0.157



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Dataset: U:\VG12.PRO\Results\200930R1\200930R1-13.qld

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Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\ddbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_13, Date: 30-Sep-2020, Time: 18:55:38, ID: 2001995-04 PDI-068SC-A-09-10-200430 10, Description: PDI-068SC-A-09-10-200430

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.76	9.692e3	1.179e4	7.429e2	1.006e3	0.74	NO	1.748e3	0.31389	0.31389	0.0509
2	Total Tetra-Dioxins	23.11	1.182e4	1.495e4	9.414e2	1.147e3	0.82	NO	2.089e3	0.37498	0.37498	0.0509
3	Total Tetra-Dioxins	23.57	1.859e3	2.485e3	1.588e2	1.809e2	0.88	NO	3.397e2	0.060984	0.060984	0.0509
4	Total Tetra-Dioxins	24.40	1.265e4	1.498e4	9.096e2	1.134e3	0.80	NO	2.044e3	0.36696	0.36696	0.0509
5	Total Tetra-Dioxins	24.64	4.379e3	3.540e3	2.552e2	3.042e2	0.84	NO	5.593e2	0.10041	0.10041	0.0509
6	Total Tetra-Dioxins	24.86	2.775e3	3.872e3	1.744e2	2.262e2	0.77	NO	4.005e2	0.071903	0.071903	0.0509

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.85	4.187e3	1.081e4	4.180e2	7.613e2	0.55	NO	1.179e3	0.24732	0.24732	0.0956
2	Total Penta-Dioxins	29.37	6.032e3	1.217e4	4.523e2	7.511e2	0.60	NO	1.203e3	0.25239	0.25239	0.0956
3	Total Penta-Dioxins	29.83	8.720e3	1.015e4	2.917e2	4.287e2	0.68	NO	7.204e2	0.15108	0.15108	0.0956
4	Total Penta-Dioxins	30.30	7.584e3	9.673e3	6.068e2	6.810e2	0.89	YES	0.000e0	0.00000	0.23280	0.0956

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.73	5.224e4	4.665e4	2.864e3	2.398e3	1.19	NO	5.262e3	1.3260	1.3260	0.0829
2	Total Hexa-Dioxins	33.34	1.432e4	9.155e3	7.040e2	5.502e2	1.28	NO	1.254e3	0.31606	0.31606	0.0829
3	Total Hexa-Dioxins	33.62	1.826e4	1.426e4	7.579e2	5.484e2	1.38	NO	1.306e3	0.32920	0.32920	0.0829
4	Total Hexa-Dioxins	33.72	3.821e3	3.698e3	2.579e2	2.340e2	1.10	NO	4.919e2	0.12396	0.12396	0.0829
5	1,2,3,6,7,8-HxCDD	34.50	4.612e3	4.287e3	2.616e2	2.431e2	1.08	NO	5.047e2	0.12279	0.12279	0.0799
6	Total Hexa-Dioxins	34.69	2.421e3	3.017e3	1.567e2	1.257e2	1.25	NO	2.824e2	0.071169	0.071169	0.0829
7	1,2,3,7,8,9-HxCDD	34.76	6.521e3	5.959e3	3.879e2	3.370e2	1.15	NO	7.249e2	0.17009	0.17009	0.0814

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Name: 200930R1\_13, Date: 30-Sep-2020, Time: 18:55:38, ID: 2001995-04 PDI-068SC-A-09-10-200430 10, Description: PDI-068SC-A-09-10-200430

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.25	5.021e4	4.458e4	4.089e3	3.643e3	1.12	NO	7.731e3	2.3522	2.3522	0.109
2	1,2,3,4,6,7,8-HpCDD	38.20	3.310e4	3.306e4	2.161e3	2.104e3	1.03	NO	4.265e3	1.2975	1.2975	0.109

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.52	5.716e3	9.732e3	4.621e2	6.689e2	0.69	NO	1.131e3	0.22709	0.22709	0.0605
2	Total Tetra-Furans	21.06	1.765e3	3.246e3	1.468e2	1.876e2	0.78	NO	3.344e2	0.067153	0.067153	0.0605
3	Total Tetra-Furans	21.90	2.899e4	3.900e4	2.610e3	3.700e3	0.71	NO	6.310e3	1.2669	1.2669	0.0605
4	Total Tetra-Furans	22.36	6.608e3	7.384e3	5.152e2	5.265e2	0.98	YES	0.000e0	0.00000	0.18711	0.0605
5	Total Tetra-Furans	22.45	2.685e3	5.249e3	1.731e2	3.464e2	0.50	YES	0.000e0	0.00000	0.079891	0.0605
6	Total Tetra-Furans	22.81	4.358e3	6.855e3	4.074e2	5.514e2	0.74	NO	0.000e0	0.00000	0.19254	0.0605
7	Total Tetra-Furans	22.90	5.748e3	6.537e3	3.430e2	4.196e2	0.82	NO	7.626e2	0.15312	0.15312	0.0605
8	Total Tetra-Furans	23.24	2.953e3	4.040e3	2.407e2	3.140e2	0.77	NO	5.547e2	0.11138	0.11138	0.0605
9	Total Tetra-Furans	23.38	2.739e3	2.382e3	1.340e2	1.850e2	0.72	NO	3.190e2	0.064048	0.064048	0.0605
10	Total Tetra-Furans	23.59	3.087e3	4.441e3	1.924e2	2.928e2	0.66	NO	4.852e2	0.097429	0.097429	0.0605
11	Total Tetra-Furans	23.98	3.662e3	4.088e3	2.479e2	2.980e2	0.83	NO	5.459e2	0.10962	0.10962	0.0605
12	Total Tetra-Furans	24.11	4.173e3	6.439e3	3.988e2	4.569e2	0.87	NO	8.557e2	0.17182	0.17182	0.0605
13	Total Tetra-Furans	24.31	4.079e3	7.950e3	3.381e2	6.974e2	0.48	YES	0.000e0	0.00000	0.15606	0.0605
14	Total Tetra-Furans	24.77	7.455e3	9.121e3	5.211e2	6.734e2	0.77	NO	1.195e3	0.23985	0.23985	0.0605
15	Total Tetra-Furans	25.10	3.032e3	3.637e3	1.923e2	2.774e2	0.69	NO	4.697e2	0.094311	0.094311	0.0605
16	Total Tetra-Furans	25.49	2.732e3	3.693e3	1.922e2	2.391e2	0.80	NO	0.000e0	0.00000	0.086607	0.0605
17	Total Tetra-Furans	25.65	3.162e3	5.148e3	2.180e2	2.768e2	0.79	NO	4.948e2	0.099356	0.099356	0.0605
18	2,3,7,8-TCDF	25.79	9.054e3	1.163e4	5.506e2	7.269e2	0.76	NO	1.277e3	0.25651	0.25651	0.0605
19	Total Tetra-Furans	26.00	4.865e3	5.060e3	2.224e2	2.722e2	0.82	NO	4.946e2	0.099307	0.099307	0.0605
20	Total Tetra-Furans	26.09	6.939e3	1.009e4	4.231e2	5.699e2	0.74	NO	9.930e2	0.19939	0.19939	0.0605
21	Total Tetra-Furans	27.43	1.999e3	2.310e3	1.403e2	1.361e2	1.03	YES	0.000e0	0.00000	0.048383	0.0605

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	27.23	6.973e3	3.702e3	5.191e2	2.980e2	1.74	NO	8.171e2	0.13210	0.13210	0.0134

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Name: 200930R1\_13, Date: 30-Sep-2020, Time: 18:55:38, ID: 2001995-04 PDI-068SC-A-09-10-200430 10, Description: PDI-068SC-A-09-10-200430

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.71	5.474e3	4.969e3	4.928e2	3.320e2	1.48	NO	8.247e2	0.13334	0.13334	0.0397
2	Total Penta-Furans	28.82	8.305e3	8.533e3	3.421e2	5.845e2	0.59	YES	0.000e0	0.00000	0.090996	0.0397
3	Total Penta-Furans	29.58	6.229e3	3.266e3	3.368e2	2.531e2	1.33	NO	5.899e2	0.095379	0.095379	0.0397
4	1,2,3,7,8-PeCDF	29.84	6.283e3	3.928e3	2.809e2	2.062e2	1.36	NO	4.871e2	0.078278	0.078278	0.0410
5	Total Penta-Furans	30.09	7.287e3	6.051e3	3.568e2	2.685e2	1.33	NO	6.253e2	0.10110	0.10110	0.0397
6	Total Penta-Furans	30.70	6.571e3	3.159e3	2.584e2	1.899e2	1.36	NO	4.484e2	0.072489	0.072489	0.0397
7	2,3,4,7,8-PeCDF	30.88	8.956e3	4.525e3	3.079e2	1.753e2	1.76	NO	4.832e2	0.070291	0.070291	0.0344

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.20	2.708e3	3.086e3	1.248e2	1.101e2	1.13	NO	2.350e2	0.055818	0.055818	0.0475
2	Total Hexa-Furans	32.37	5.803e3	5.562e3	3.153e2	2.468e2	1.28	NO	5.621e2	0.13355	0.13355	0.0475
3	Total Hexa-Furans	33.33	2.953e3	1.764e3	1.229e2	1.081e2	1.14	NO	2.310e2	0.054877	0.054877	0.0475
4	1,2,3,4,7,8-HxCDF	33.48	2.943e3	3.060e3	1.667e2	1.433e2	1.16	NO	3.100e2	0.073656	0.073656	0.0444
5	1,2,3,6,7,8-HxCDF	33.59	4.504e3	3.174e3	1.806e2	1.711e2	1.06	NO	3.517e2	0.079056	0.079056	0.0420
6	2,3,4,6,7,8-HxCDF	34.28	2.867e3	2.004e3	1.399e2	1.087e2	1.29	NO	2.487e2	0.057870	0.057870	0.0476
7	1,2,3,7,8,9-HxCDF	35.26	3.672e3	4.125e3	1.379e2	1.212e2	1.14	NO	2.592e2	0.068251	0.068251	0.0584
8	Total Hexa-Furans	35.30	2.378e3	1.794e3	8.150e1	6.396e1	1.27	NO	1.455e2	0.034557	0.034557	0.0475

**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	36.84	4.205e3	3.149e3	2.917e2	2.446e2	1.19	NO	5.363e2	0.15742	0.15742	0.0574

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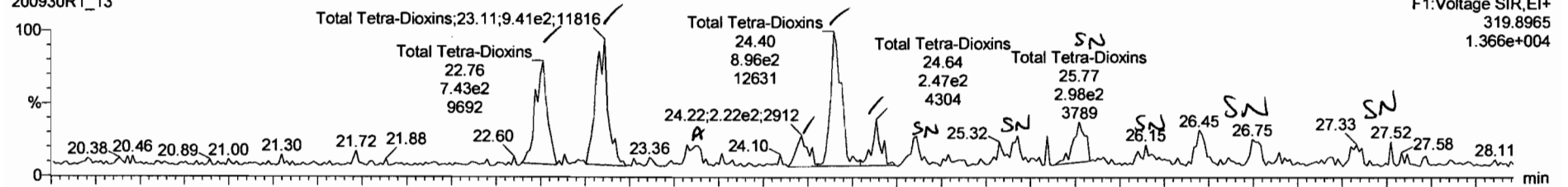
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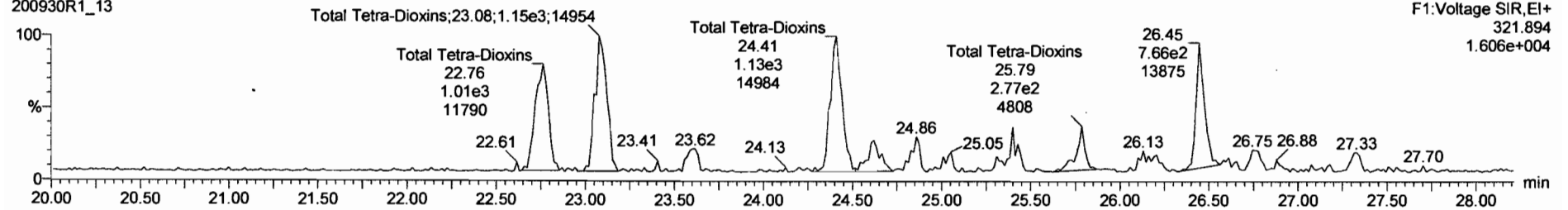
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**2,3,7,8-TCDD**

200930R1\_13

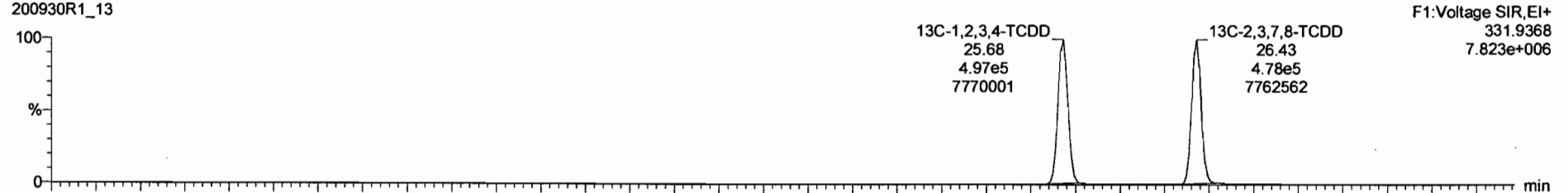


200930R1\_13

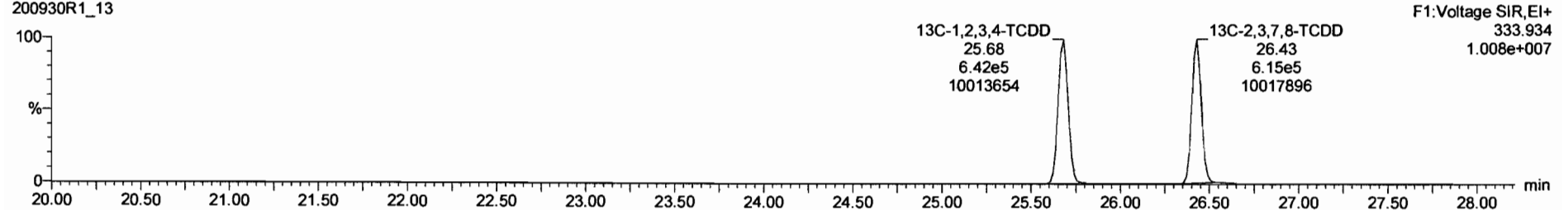


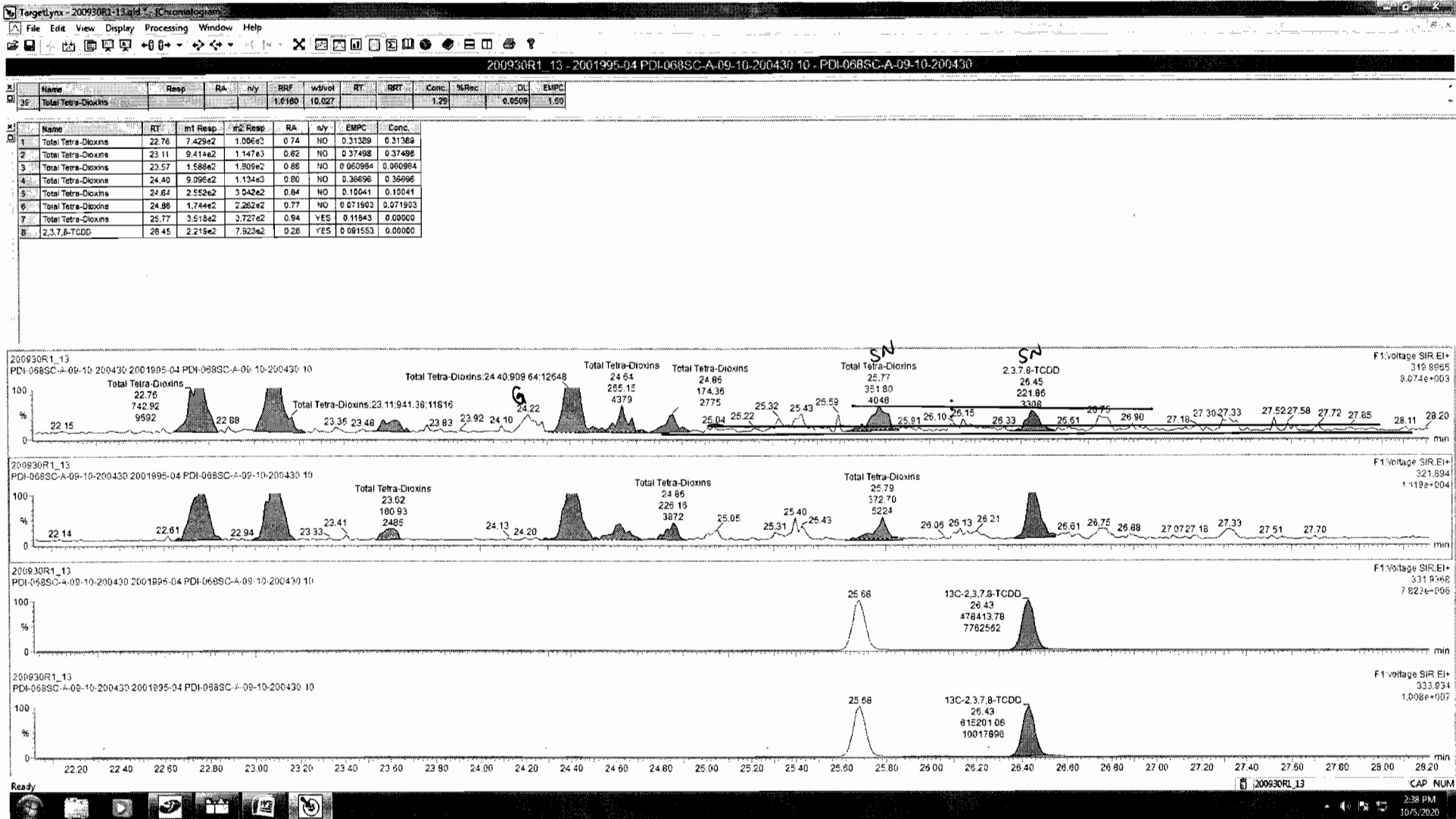
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200930R1\_13



200930R1\_13





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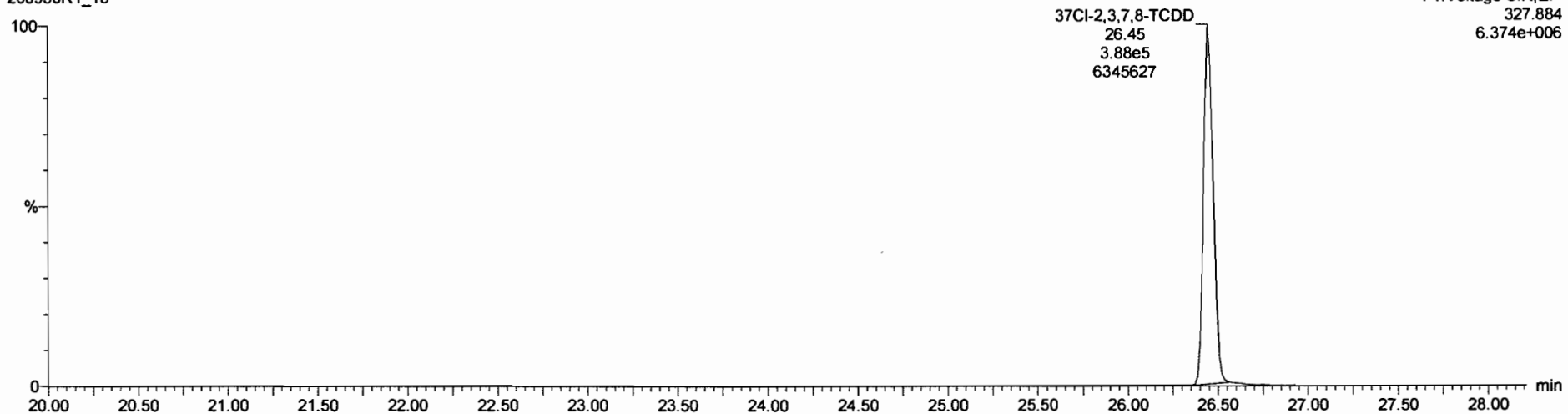
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**37Cl-2,3,7,8-TCDD**

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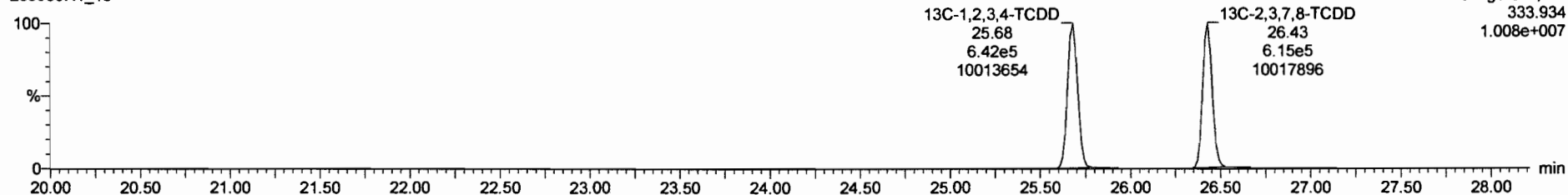


**13C-1,2,3,4-TCDD**

200930R1\_13



200930R1\_13



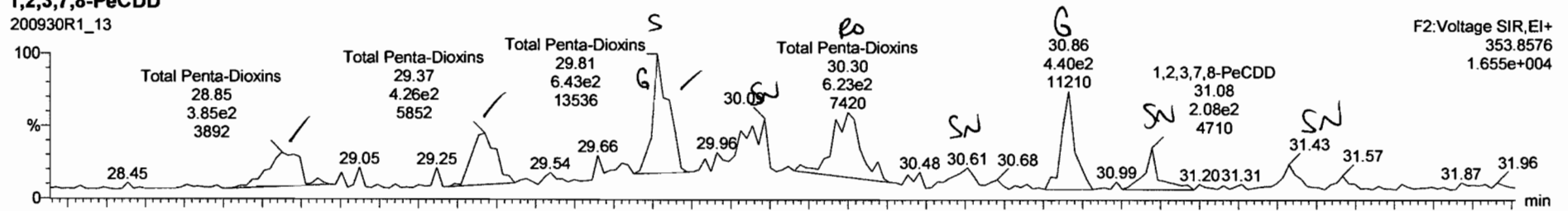
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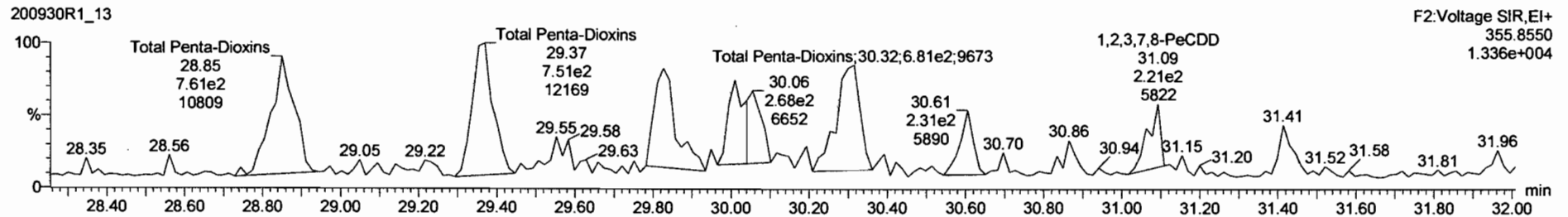
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1,2,3,7,8-PeCDD

200930R1\_13

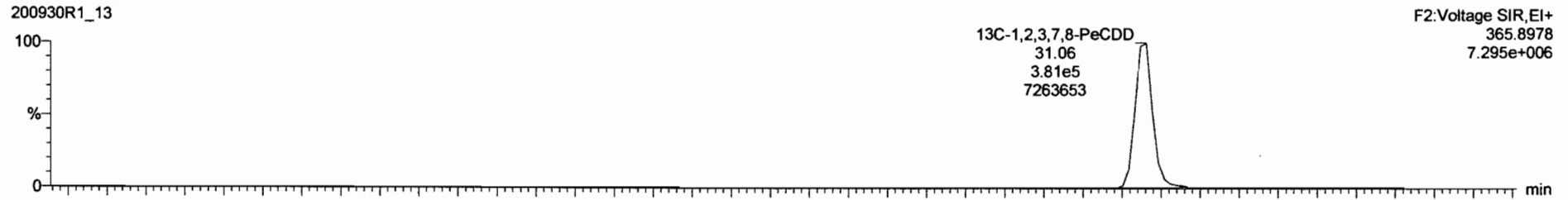


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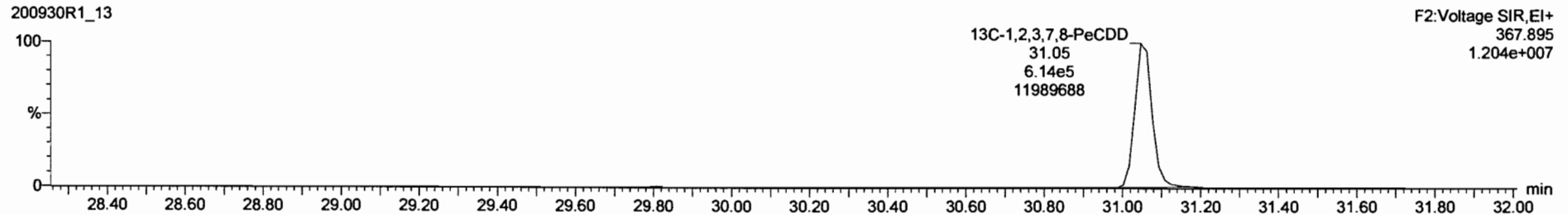


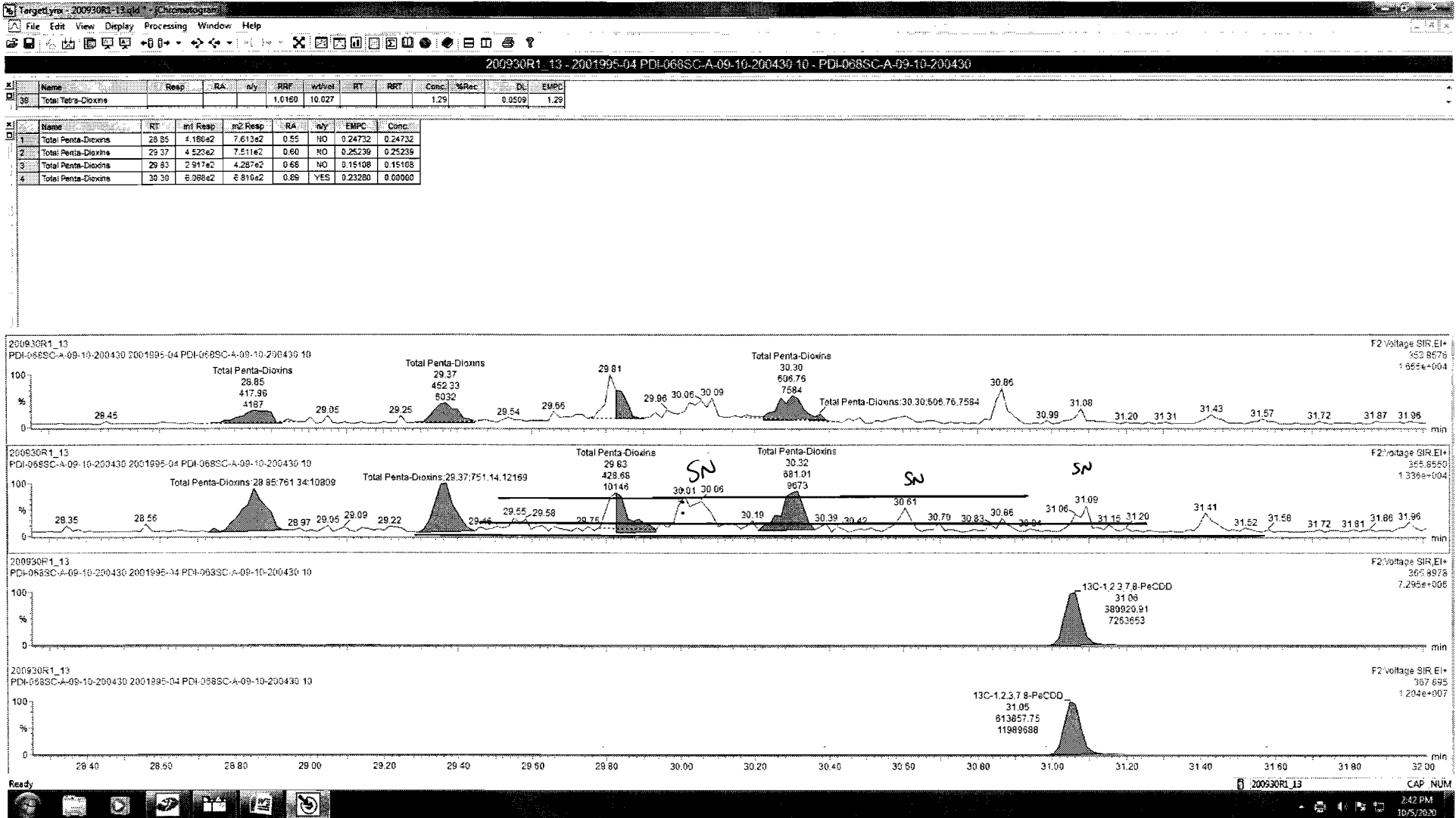
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200930R1\_13



200930R1\_13





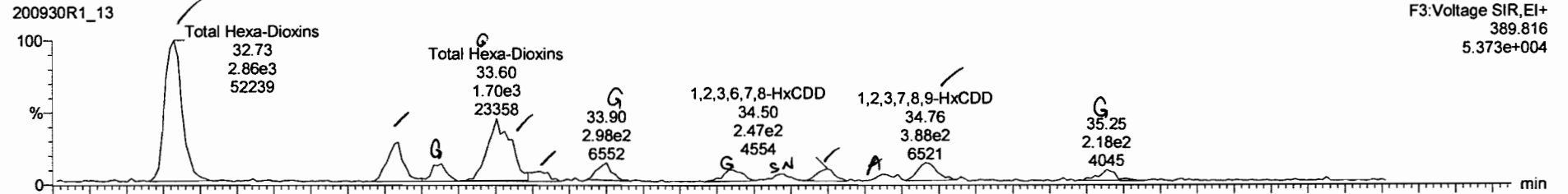


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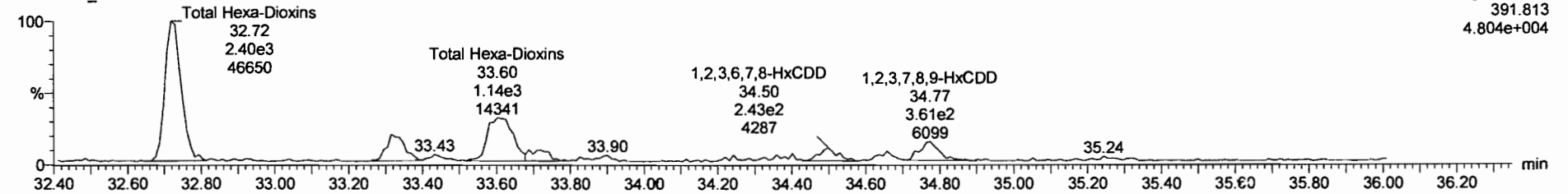
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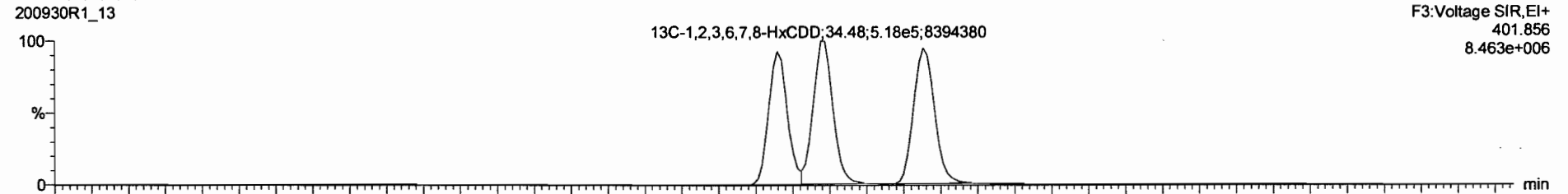
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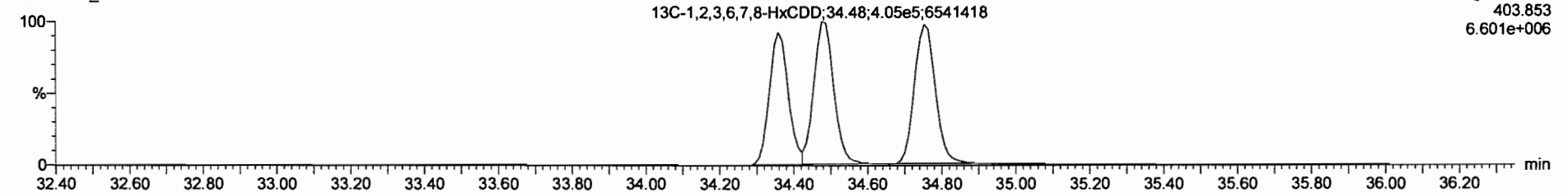
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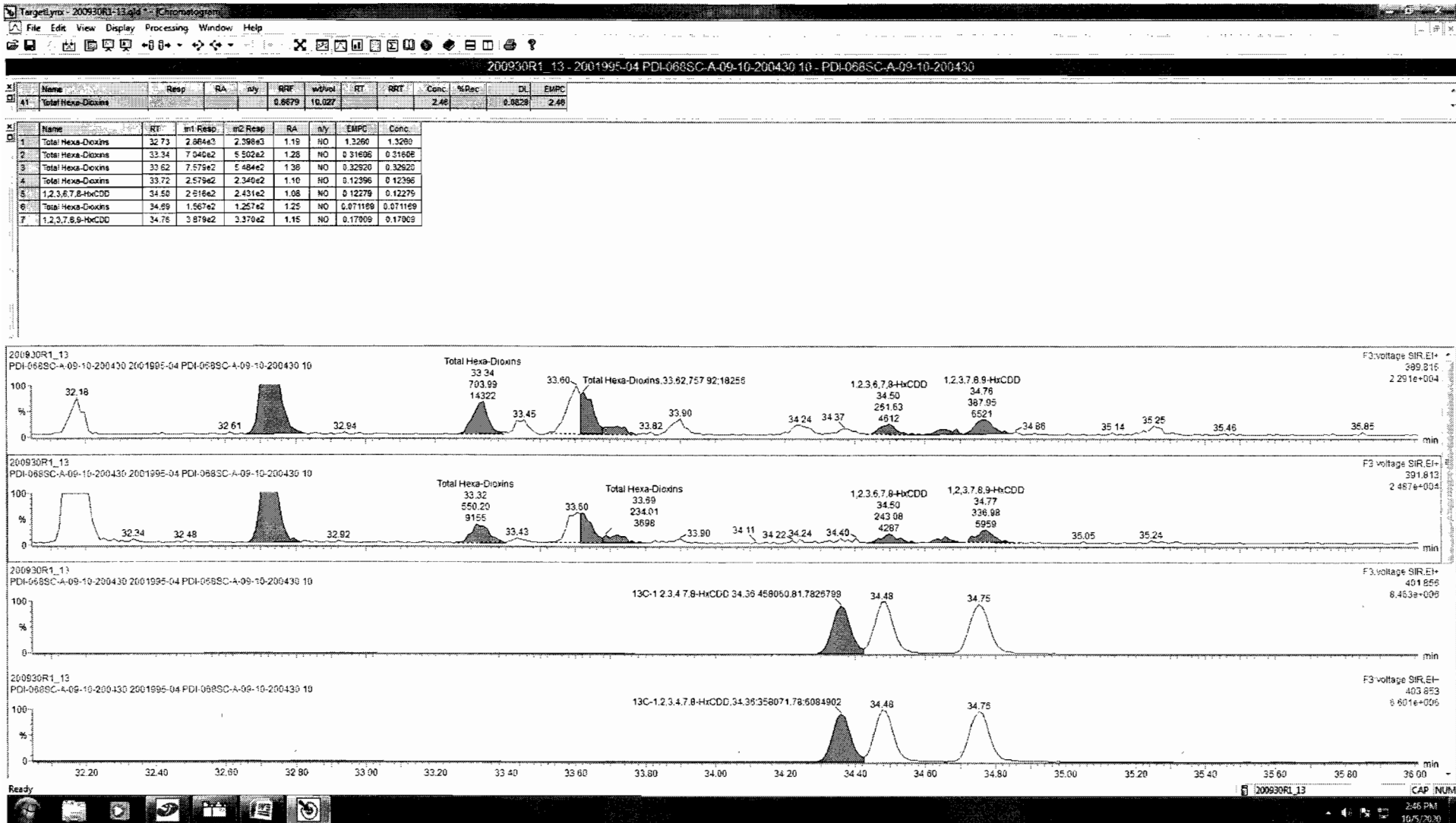


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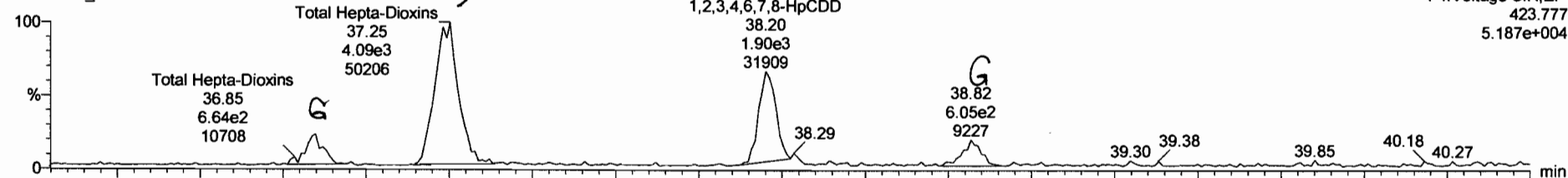
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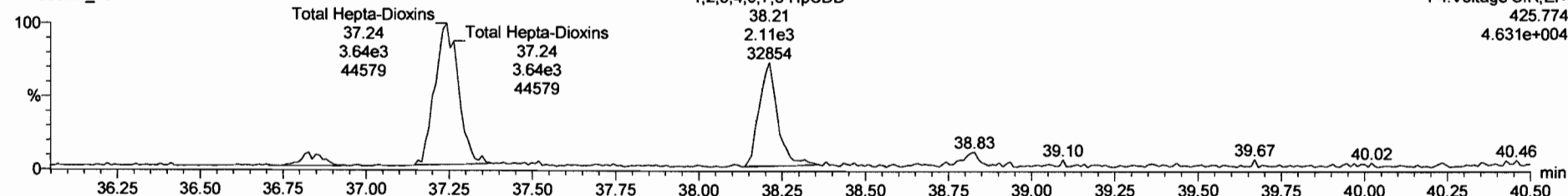
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1,2,3,4,6,7,8-HpCDD

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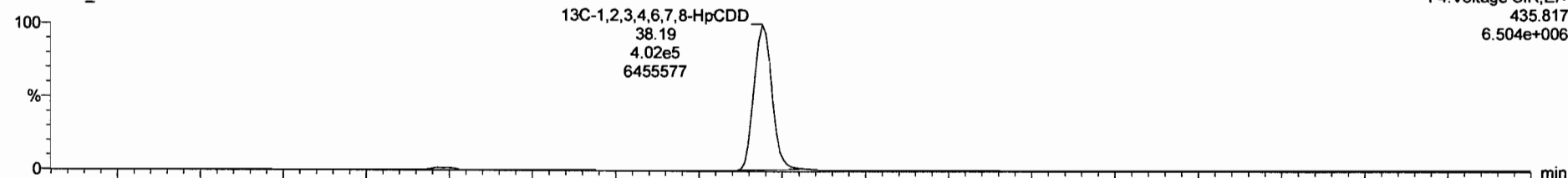


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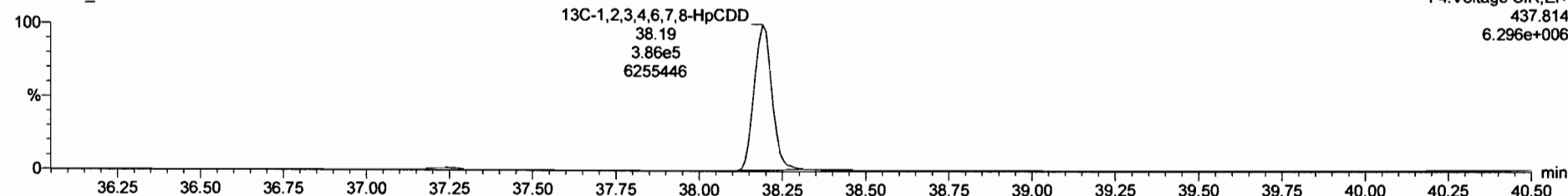


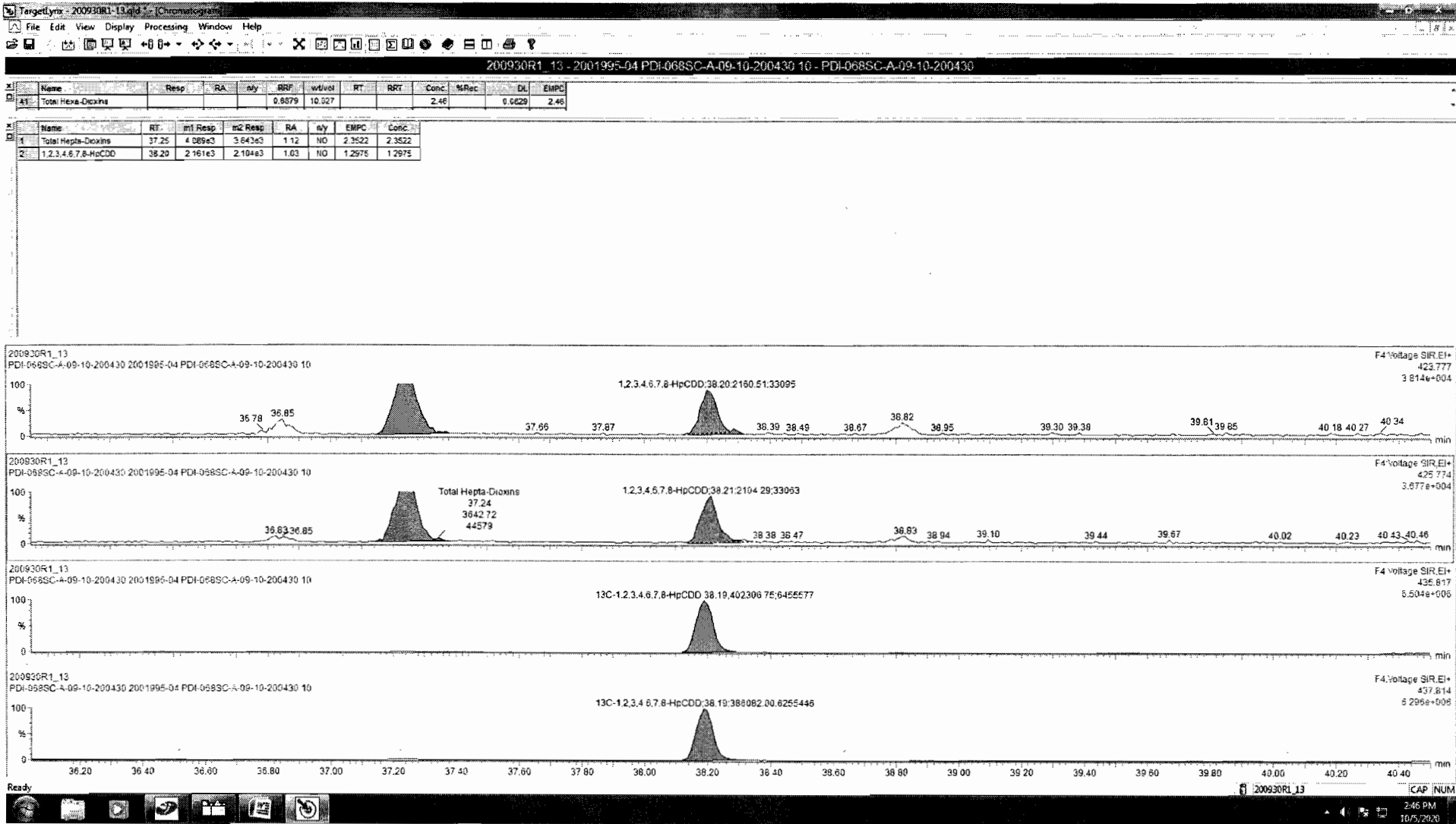
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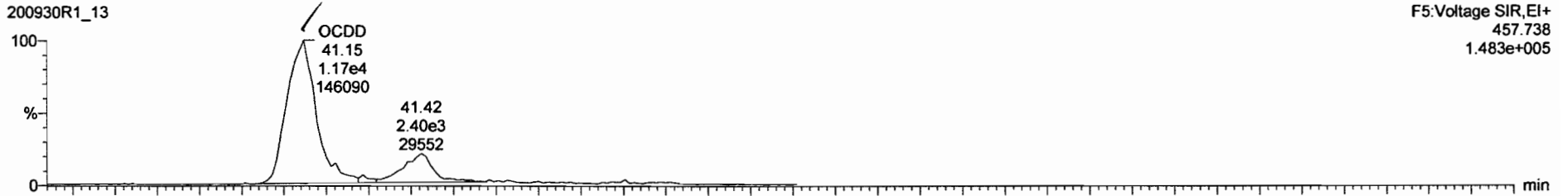
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**OCDD**

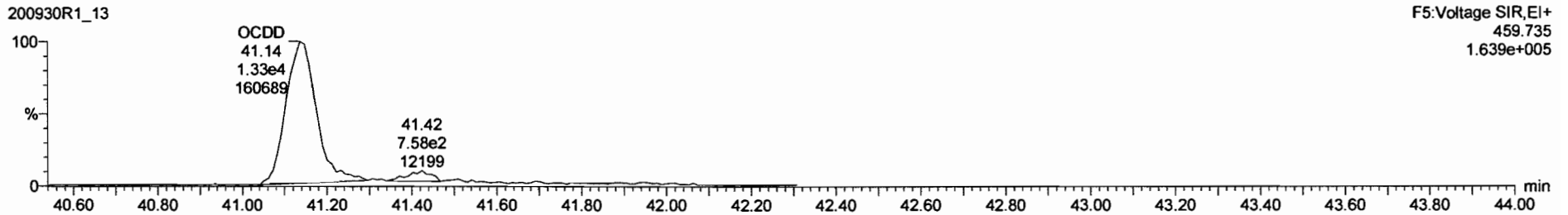
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F5:Voltage SIR,EI+  
457.738  
1.483e+005



200930R1\_13

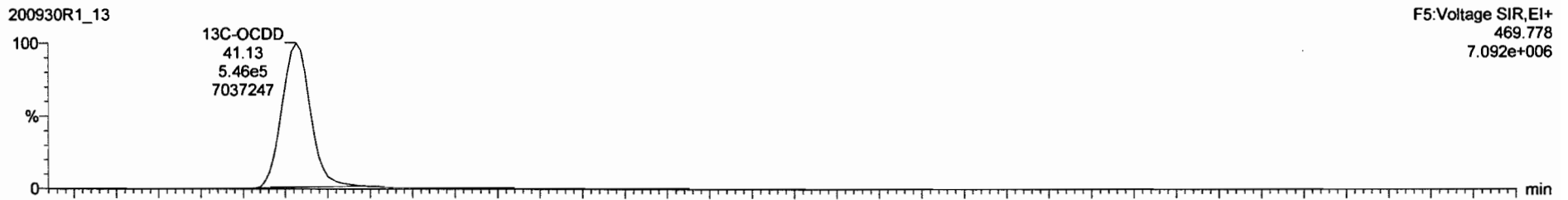
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**13C-OCDD**

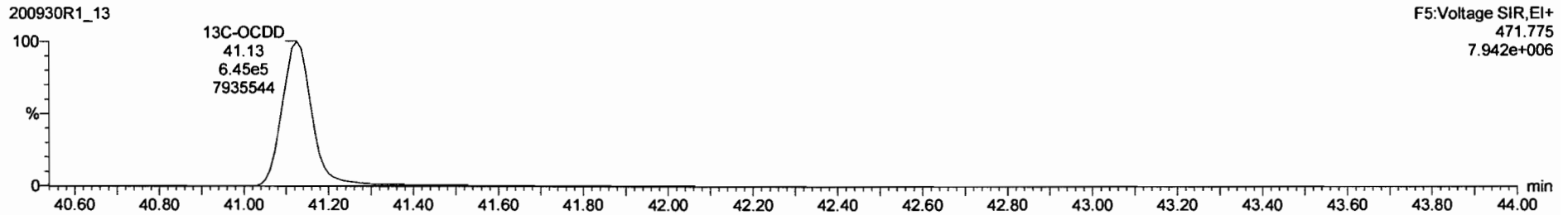
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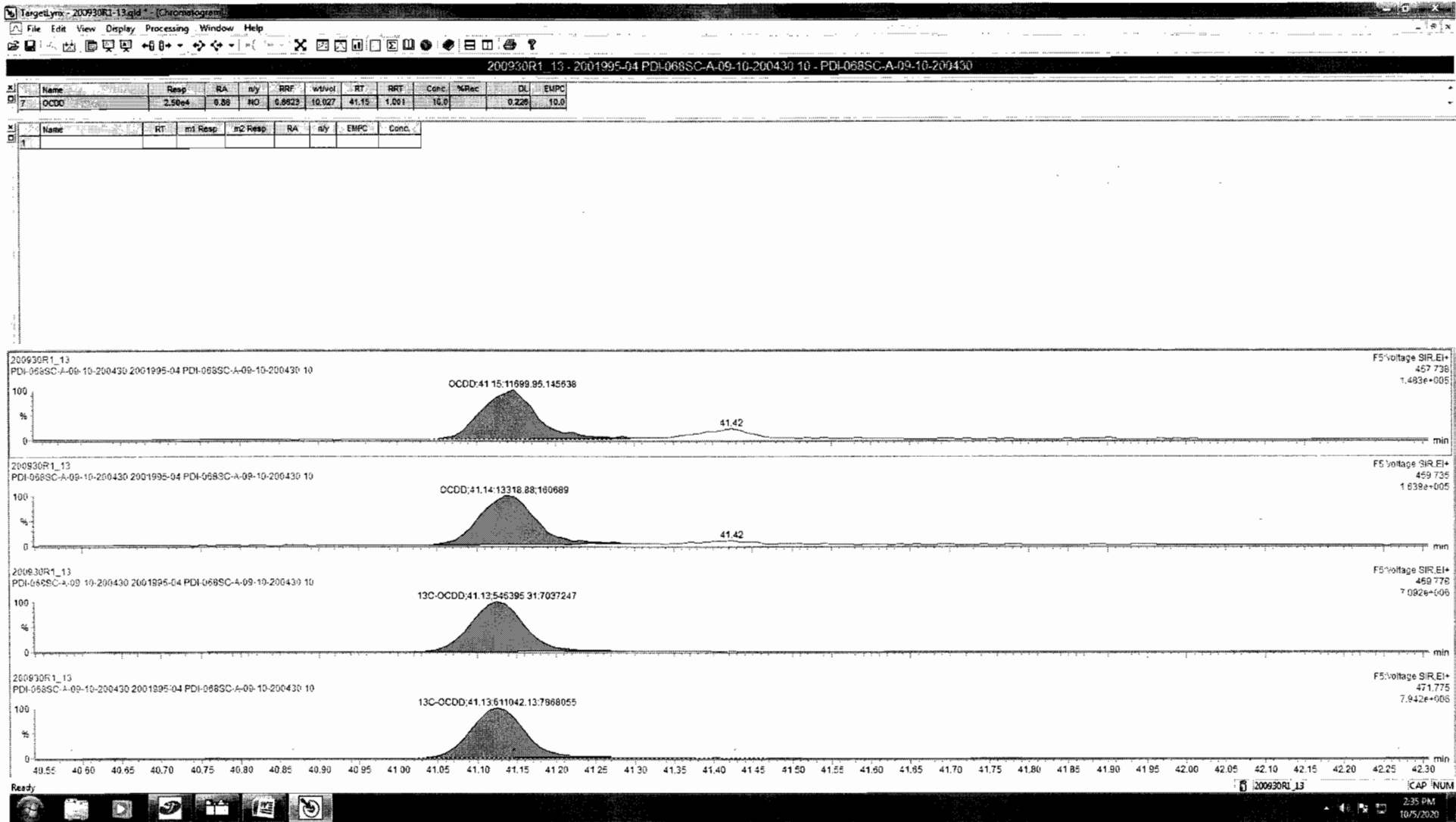
F5:Voltage SIR,EI+  
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7.092e+006



200930R1\_13

F5:Voltage SIR,EI+  
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7.942e+006



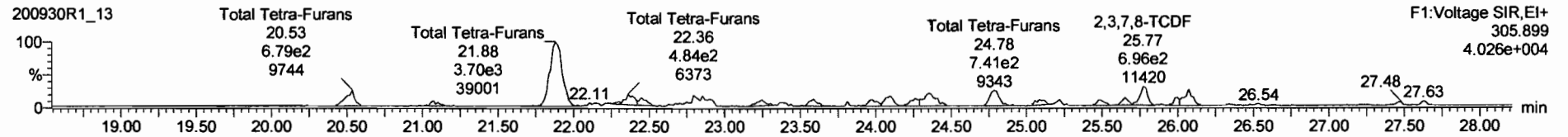
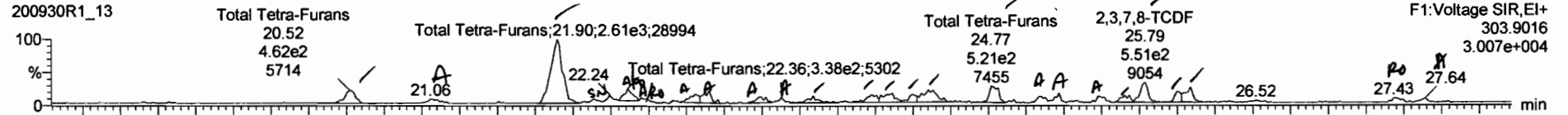


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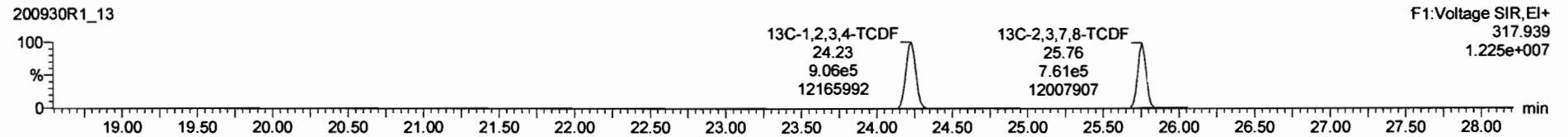
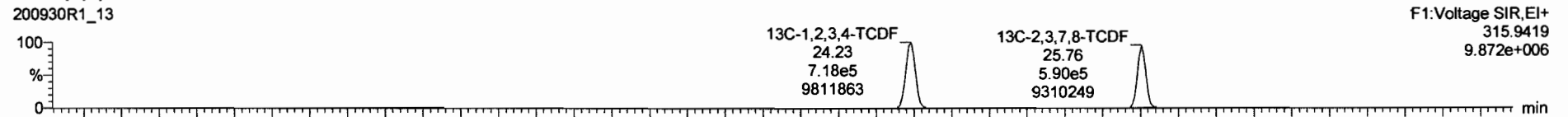
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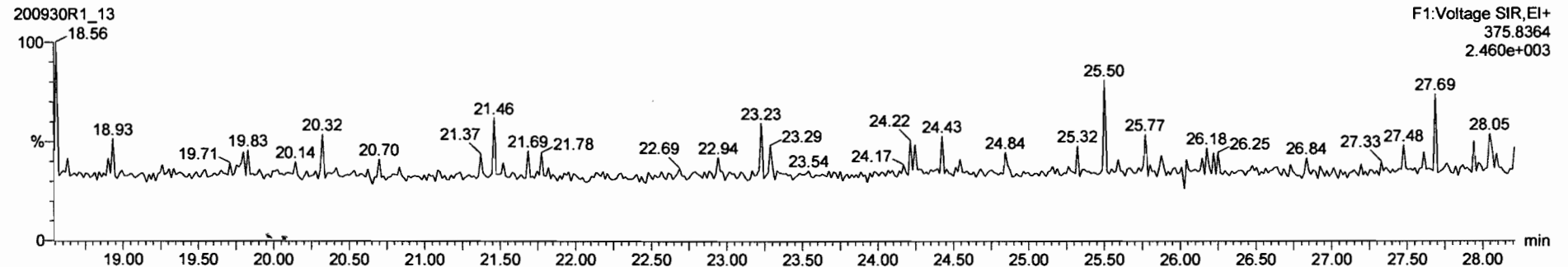
**2,3,7,8-TCDF**

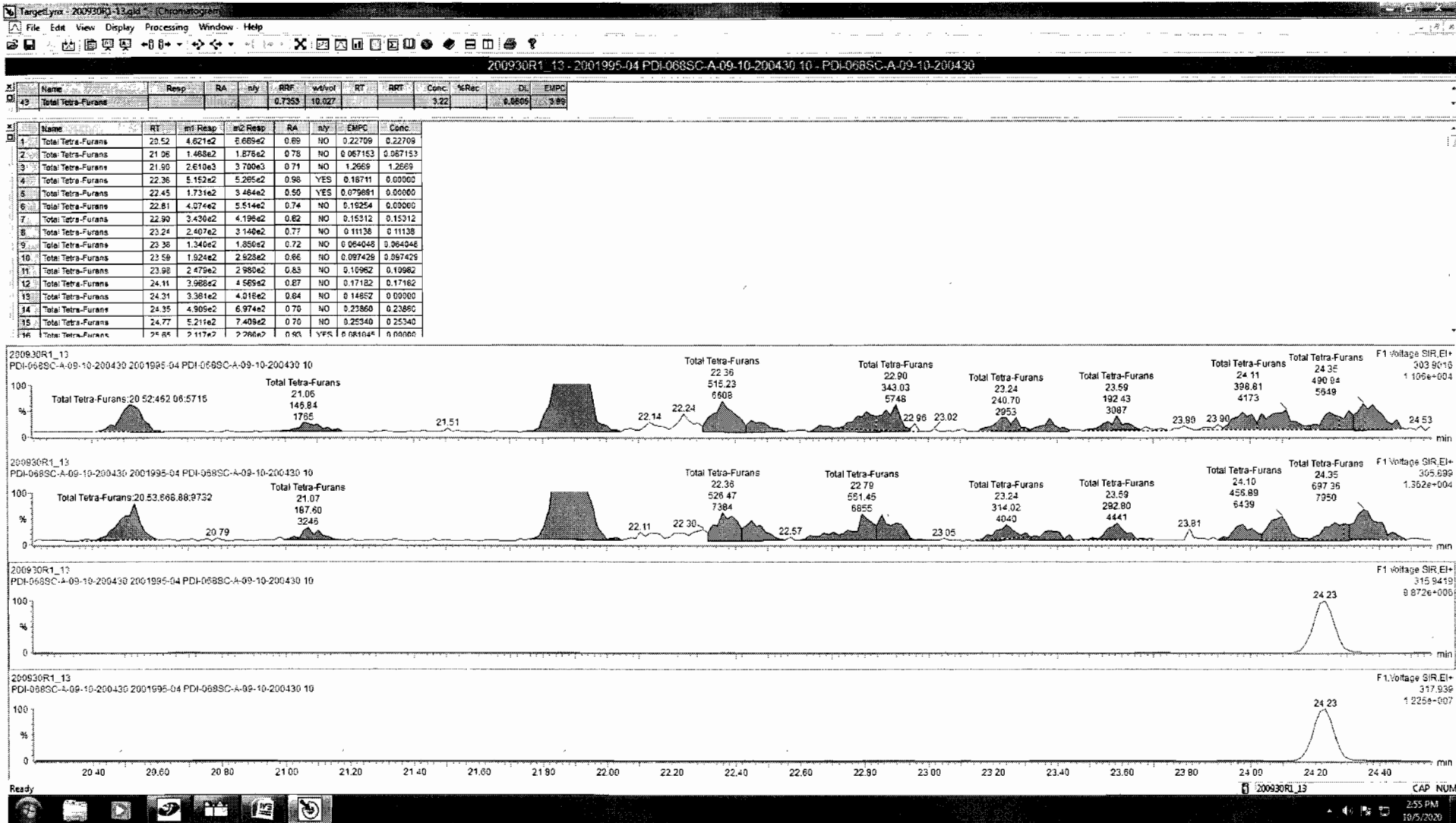


**13C-2,3,7,8-TCDF**

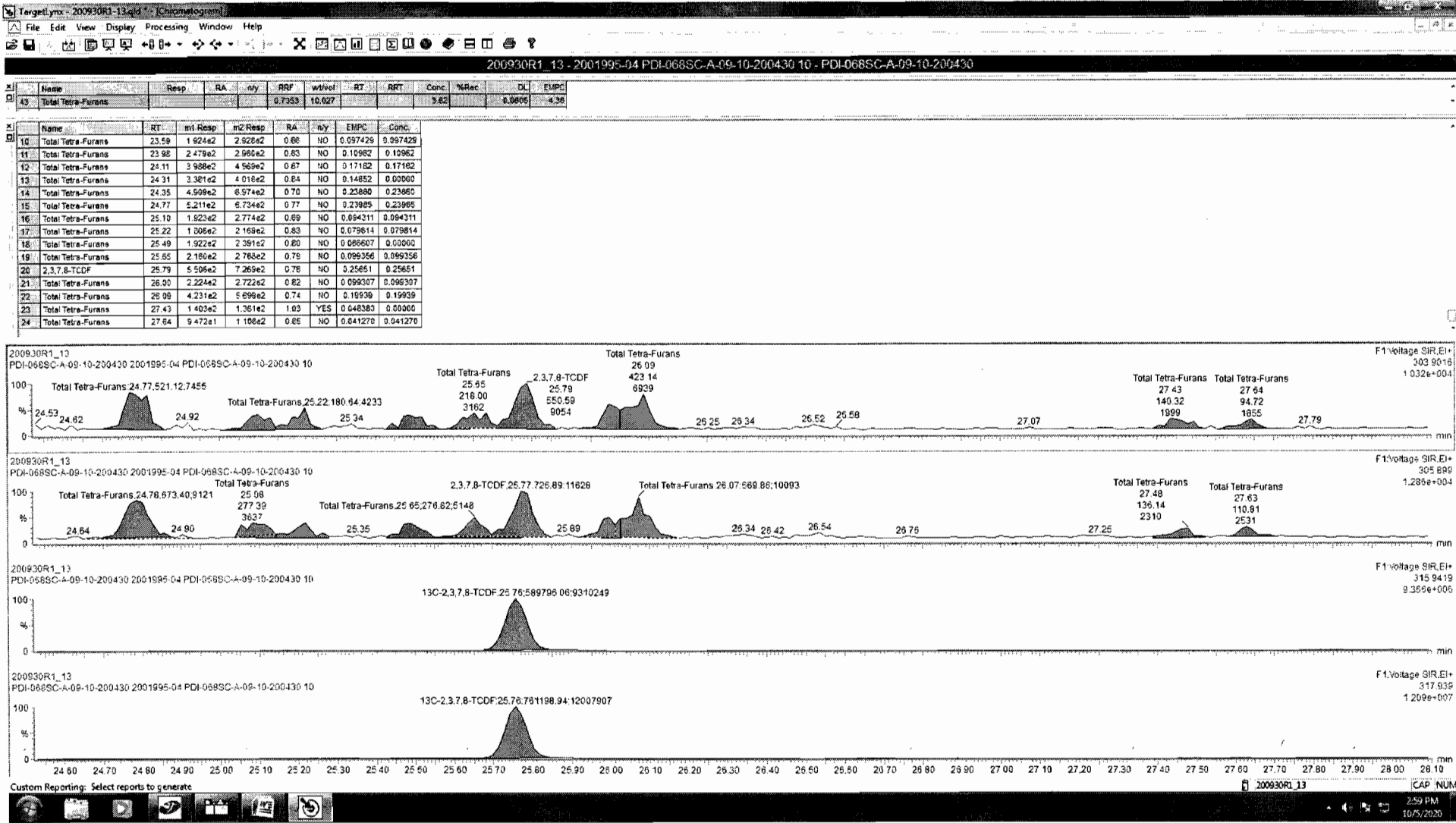


**DPE1**









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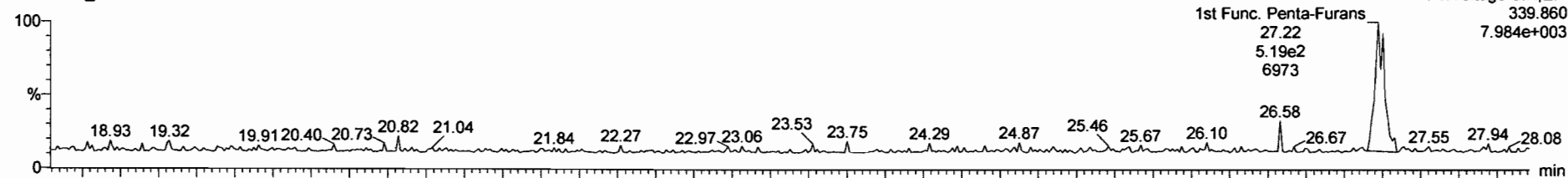
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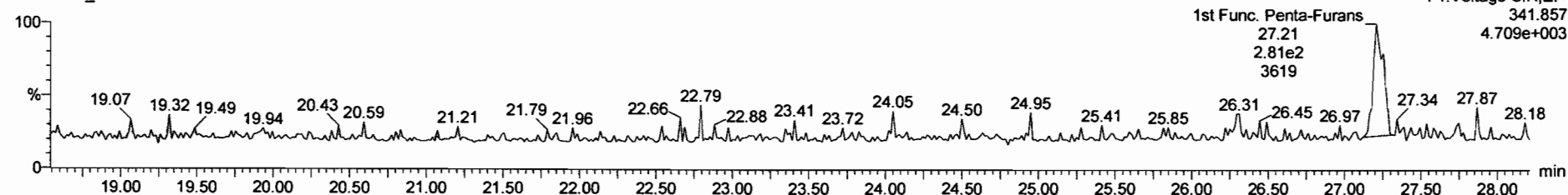
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1st Func. Penta-Furans

200930R1\_13

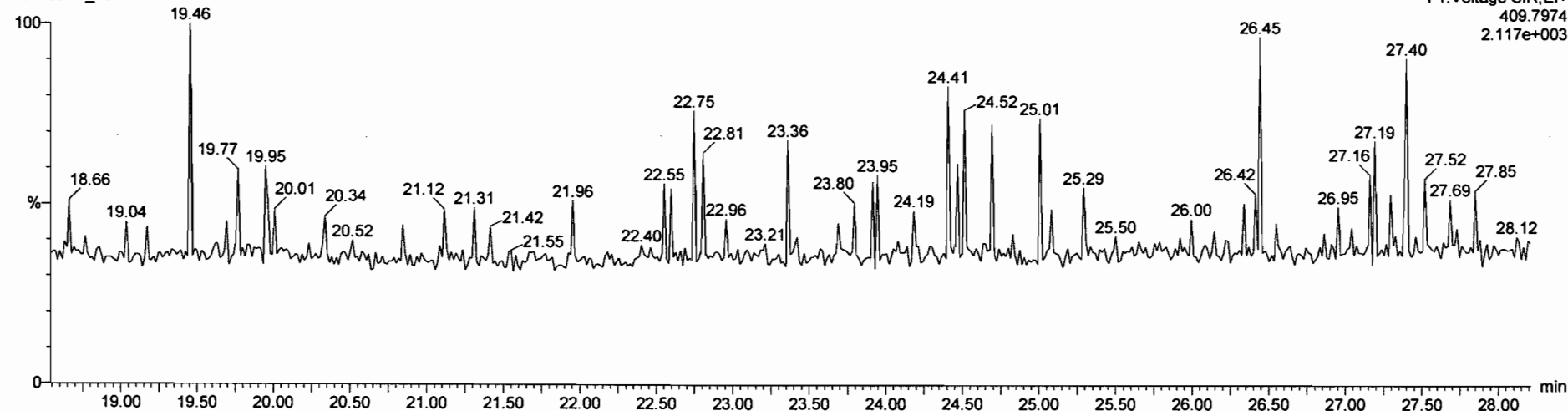


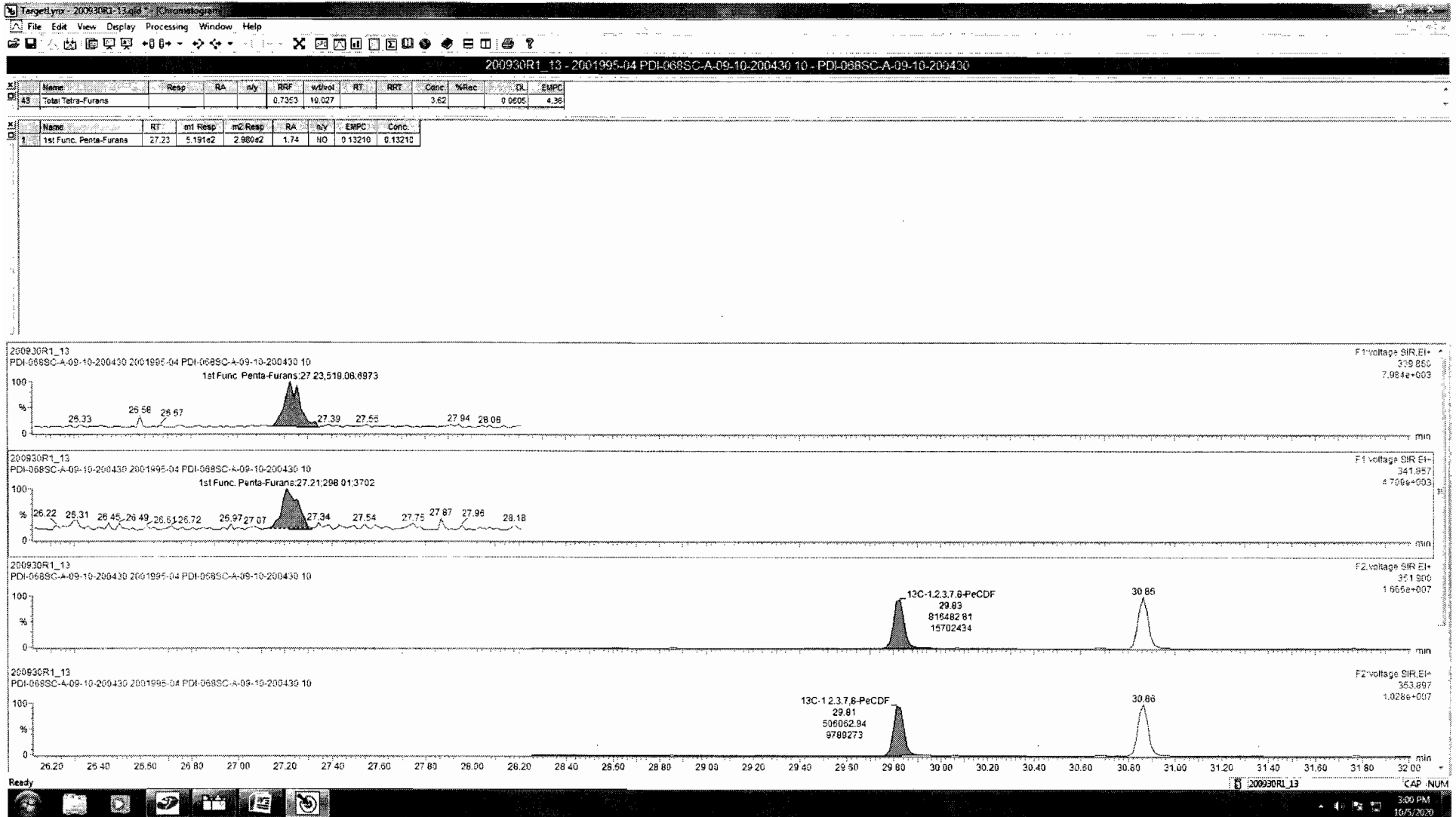
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DPE6

200930R1\_13





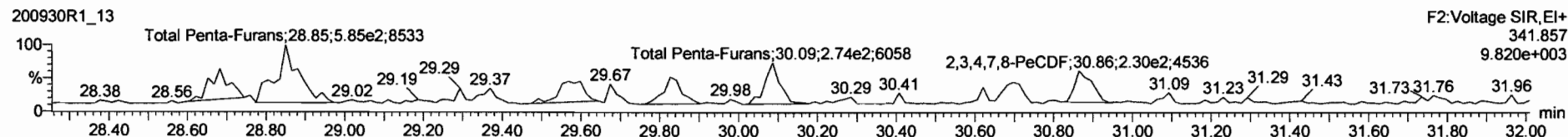
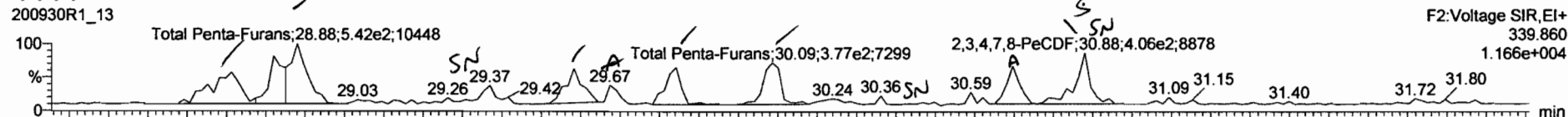
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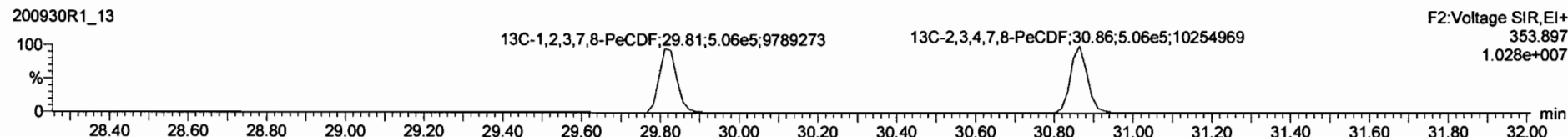
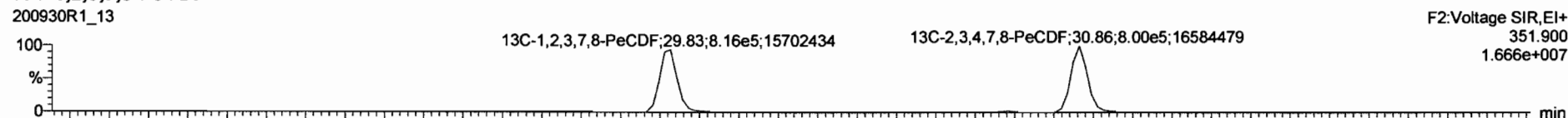
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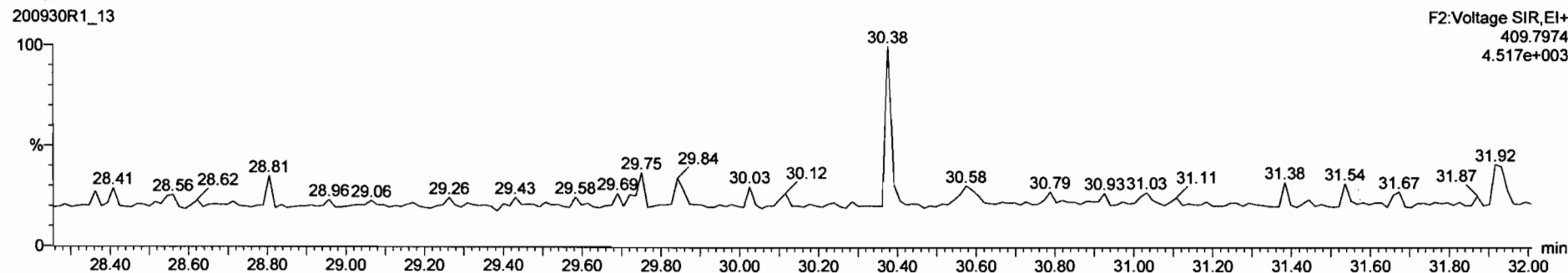
**1,2,3,7,8-PeCDF**

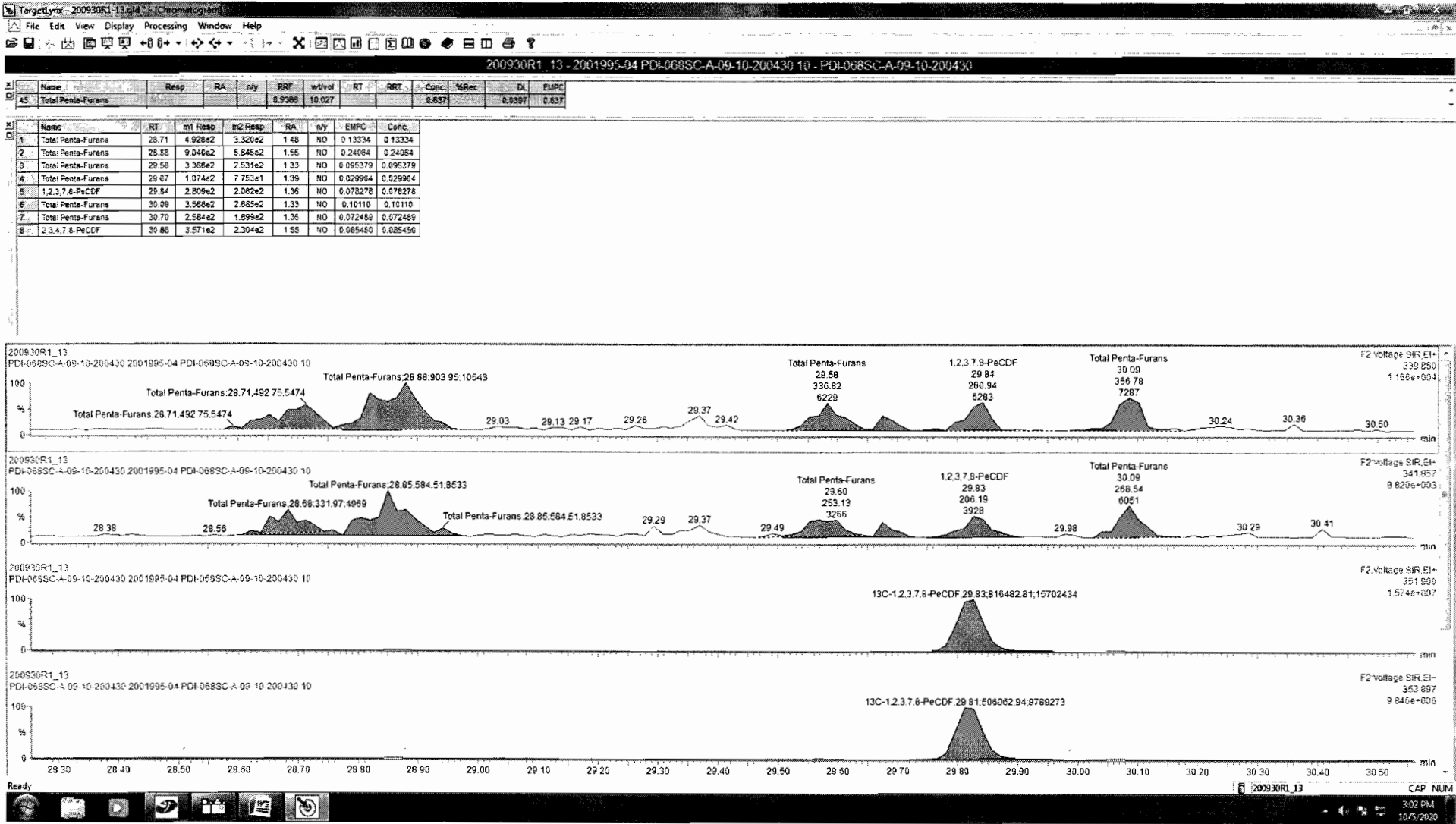


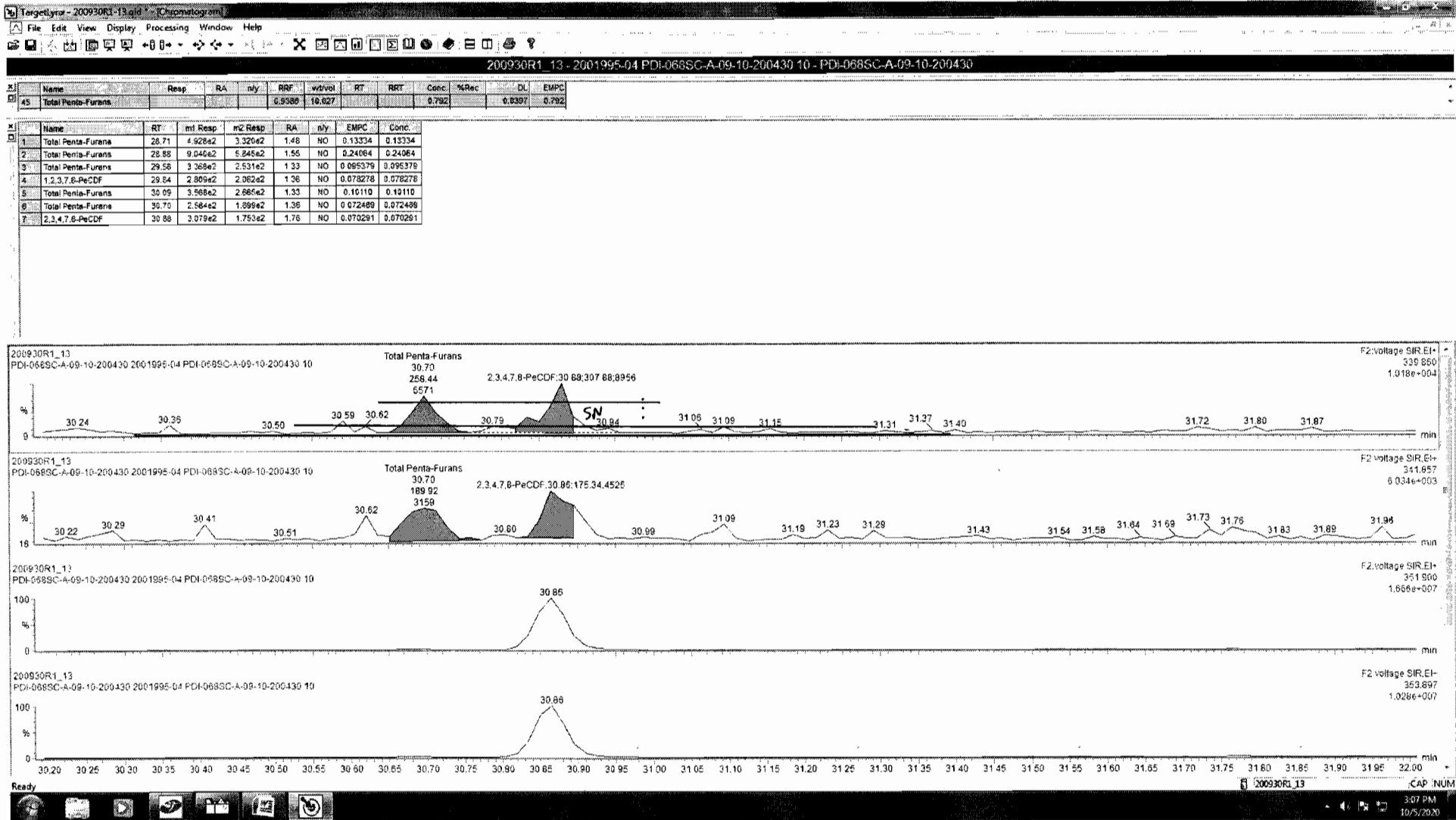
**13C-1,2,3,7,8-PeCDF**



**DPE2**





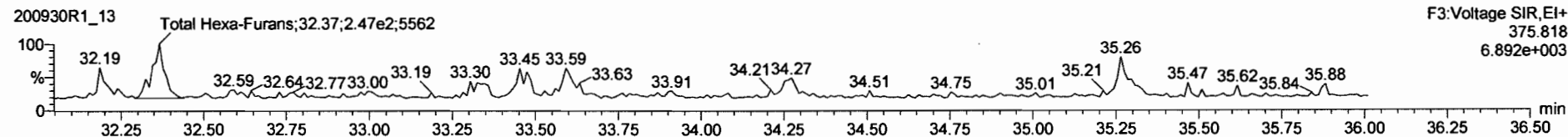
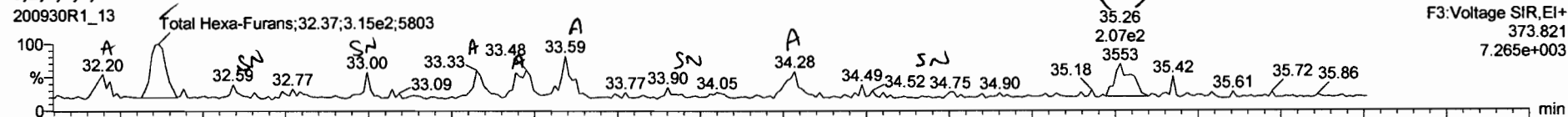


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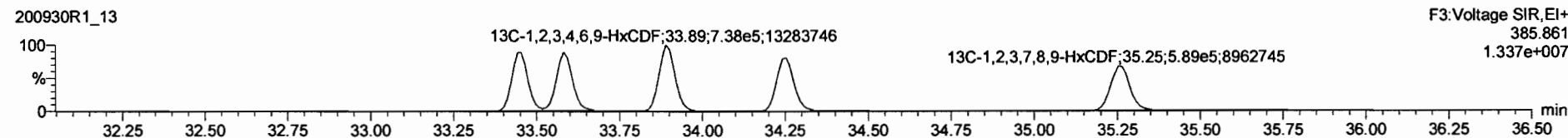
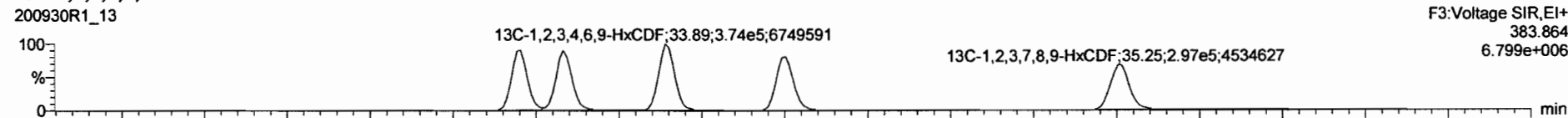
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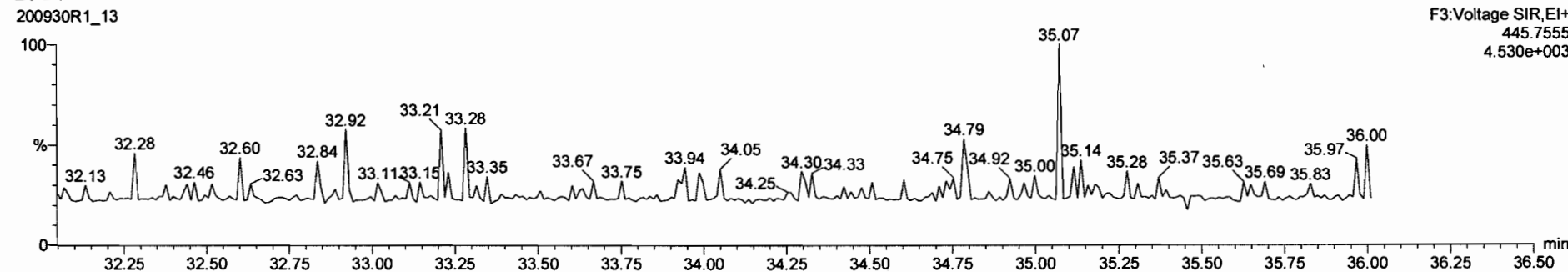
**1,2,3,4,7,8-HxCDF**

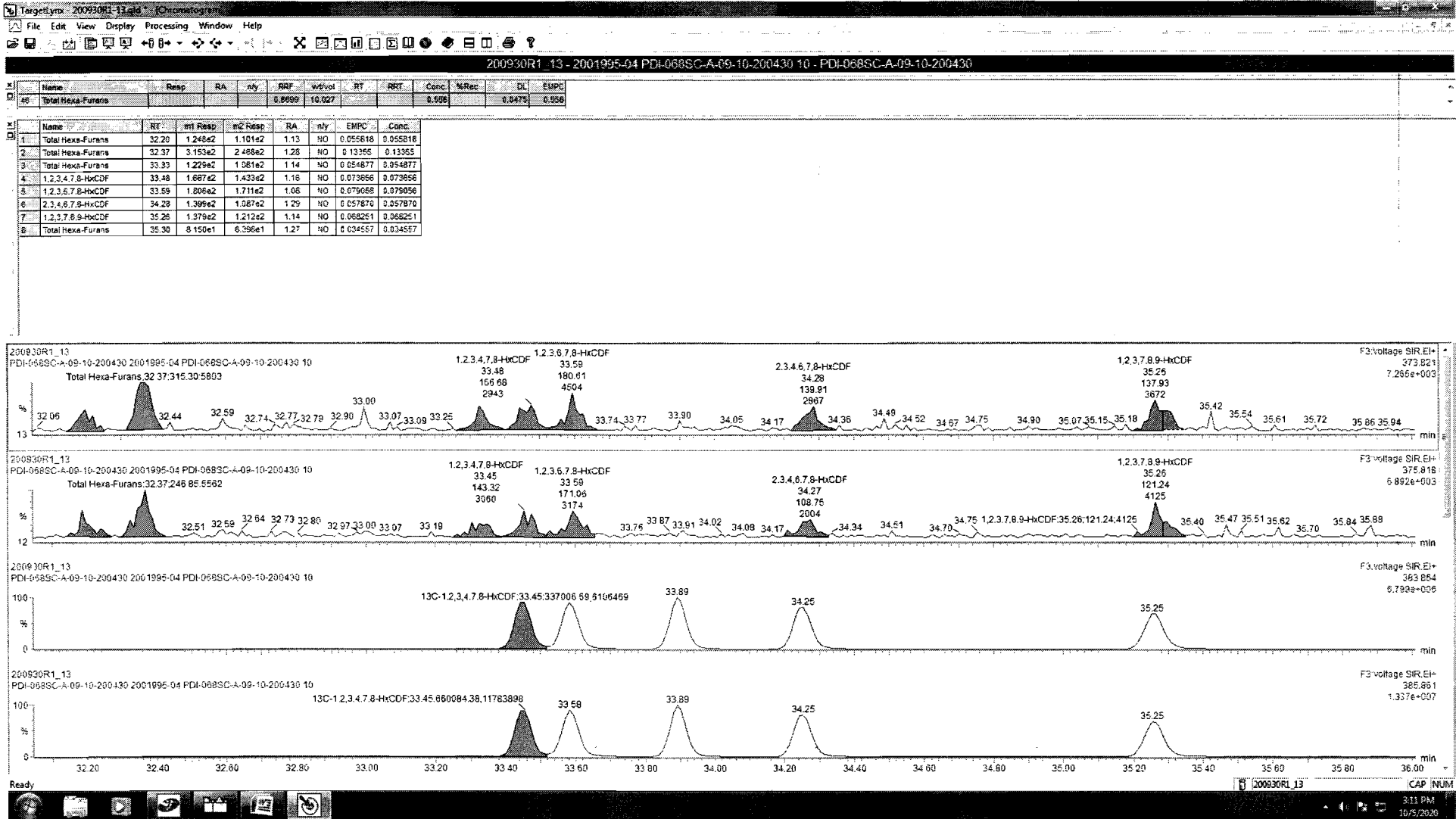


**13C-1,2,3,4,7,8-HxCDF**



**DPE3**







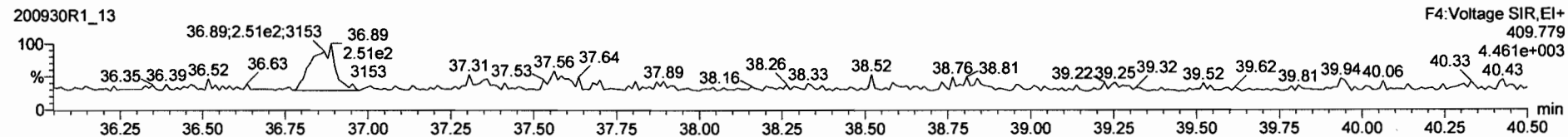
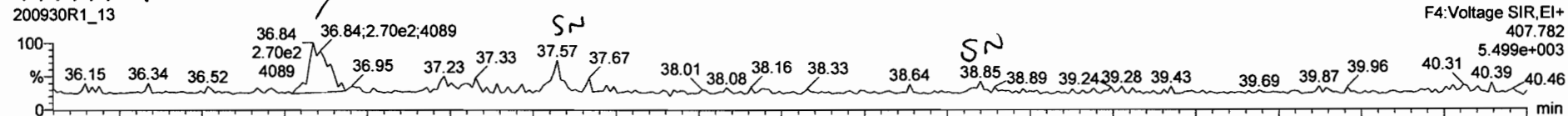
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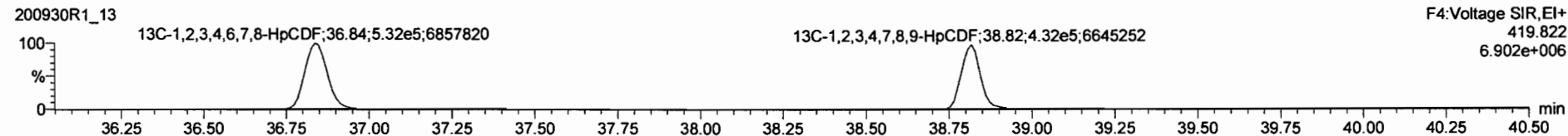
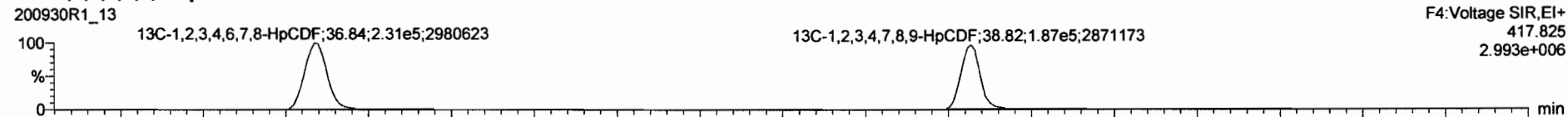
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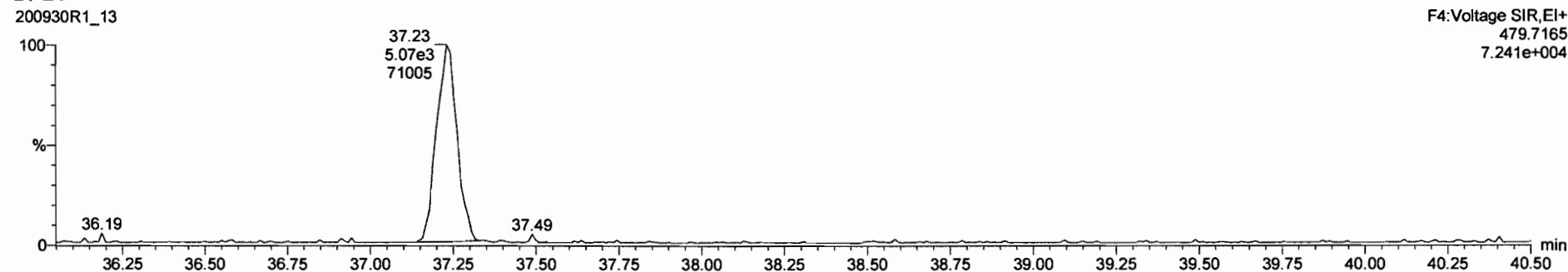
**1,2,3,4,6,7,8-HpCDF**

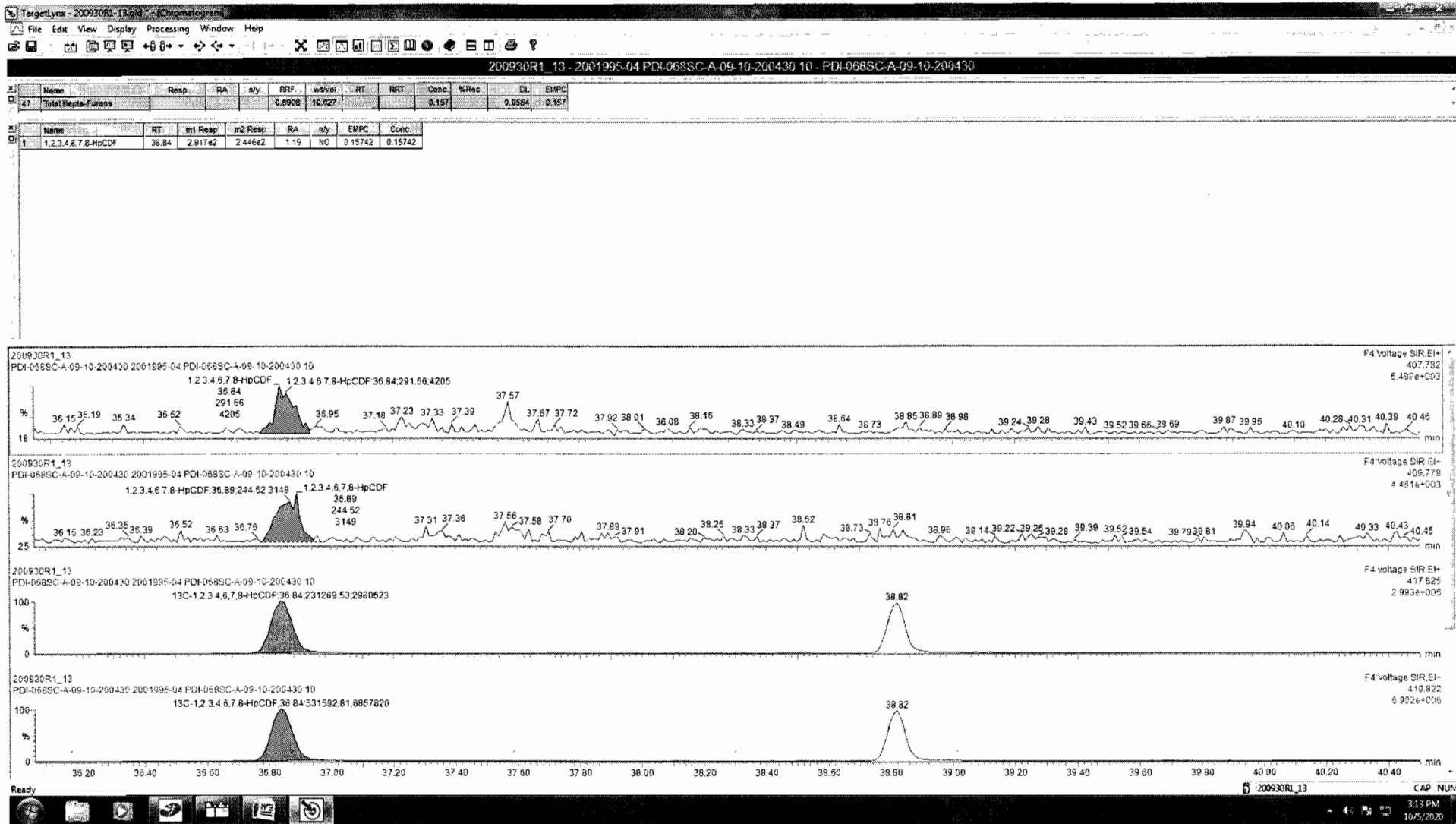


**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**





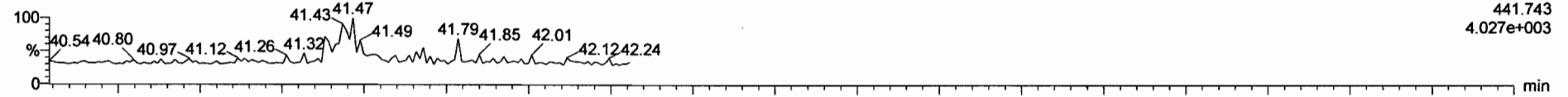
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Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

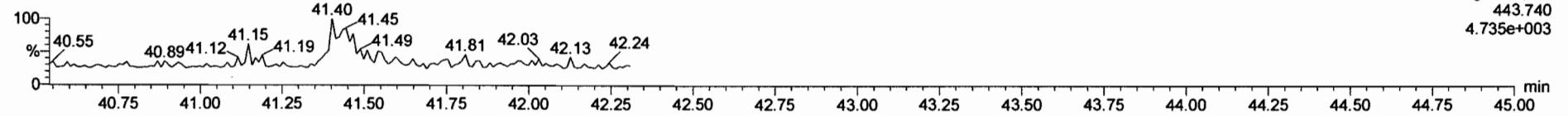
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**OCDF**

200930R1\_13

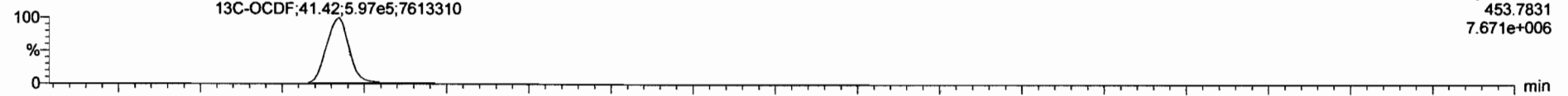


200930R1\_13

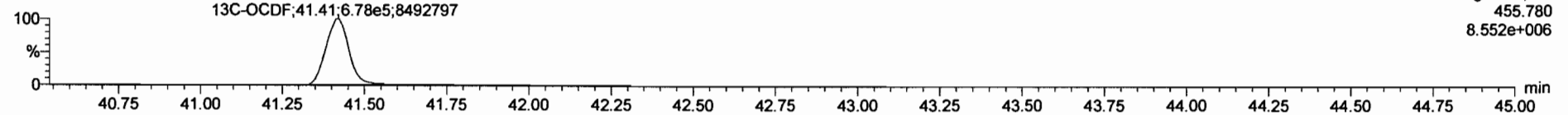


**13C-OCDF**

200930R1\_13

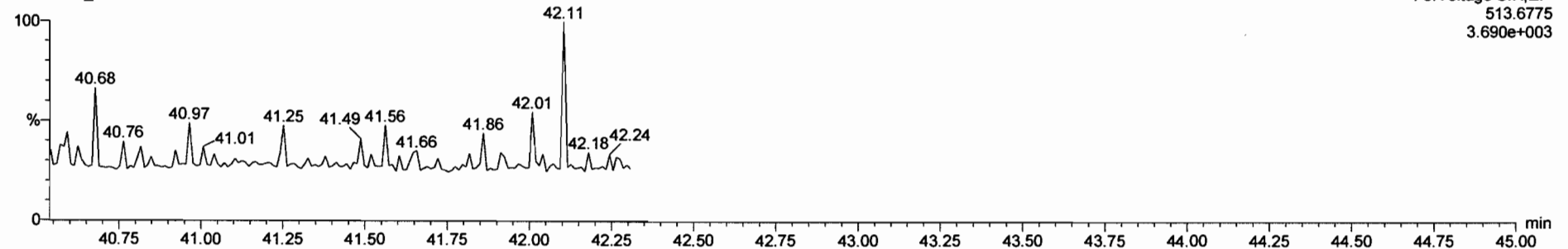


200930R1\_13



**DPE5**

200930R1\_13



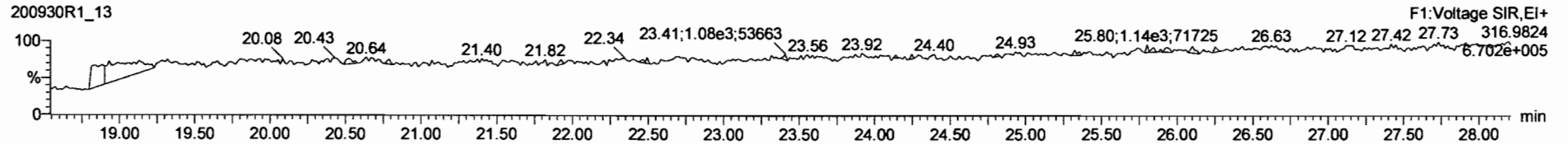
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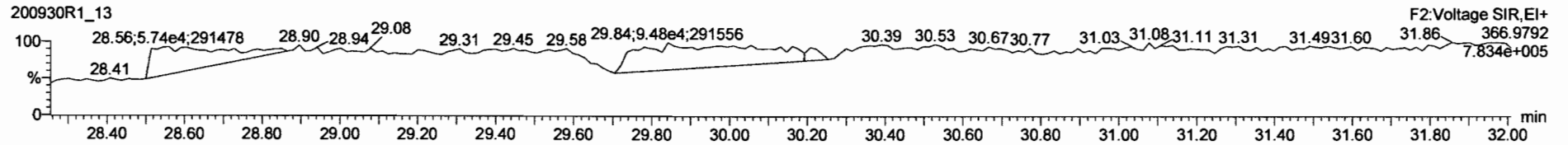
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Name: 200930R1\_13, Date: 30-Sep-2020, Time: 18:55:38, ID: 2001995-04 PDI-068SC-A-09-10-200430 10, Description: PDI-068SC-A-09-10-200430

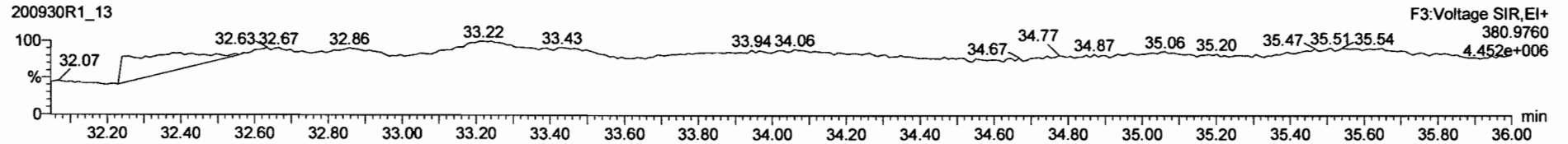
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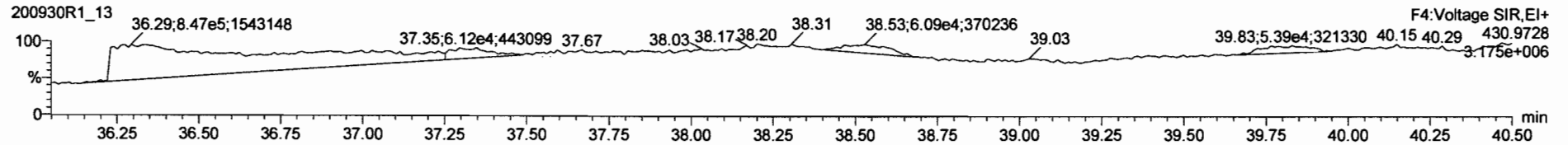
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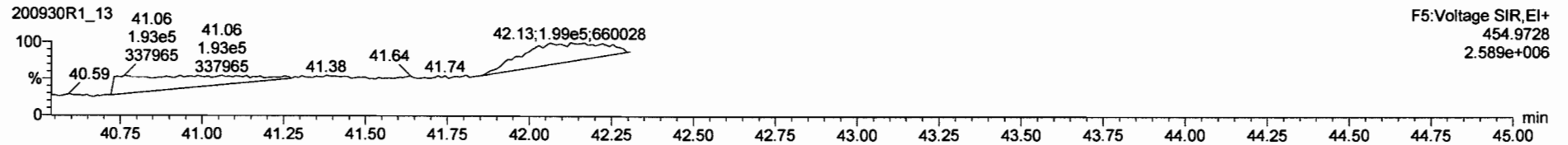
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200930R1\200930R1-14B.qld

Last Altered: Thursday, October 22, 2020 07:24:07 Pacific Daylight Time  
Printed: Thursday, October 22, 2020 07:24:14 Pacific Daylight Time

GRB 10/22/2020

Method: Untitled 20 Sep 2020 09:11:36  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

CY 10/22/2020

Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

#	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	1.02e4	0.67	NO	1.02	10.035	26.463	26.45	1.001	1.001	1.9139		0.0445	1.91
2	2 1,2,3,7,8-PeCDD	6.46e3	0.70	NO	0.956	10.035	31.085	31.08	1.001	1.001	1.3974		0.0970	1.40
3	3 1,2,3,4,7,8-HxCDD	5.19e3	1.34	NO	1.00	10.035	34.369	34.39	1.000	1.001	1.4235		0.185	1.42
4	4 1,2,3,6,7,8-HxCDD	2.83e4	1.25	NO	0.888	10.035	34.487	34.50	1.000	1.000	7.8150		0.191	7.81
5	5 1,2,3,7,8,9-HxCDD	1.42e4	1.22	NO	0.909	10.035	34.763	34.78	1.000	1.001	3.7797		0.191	3.78
6	6 1,2,3,4,6,7,8-HpCDD	5.65e5	1.02	NO	0.832	10.035	38.201	38.20	1.000	1.000	187.35		0.766	187
7	7 OCDD	5.61e6	0.87	NO	0.862	10.035	41.137	41.15	1.000	1.000	2413.9		0.989	2410
8	8 2,3,7,8-TCDF	4.30e5	0.74	NO	0.735	10.035	25.771	25.77	1.000	1.001	89.512		0.0696	89.5
9	9 1,2,3,7,8-PeCDF	5.70e5	1.55	NO	0.939	10.035	29.833	29.83	1.001	1.001	94.416		0.186	94.4
10	10 2,3,4,7,8-PeCDF	3.70e5	1.54	NO	1.05	10.035	30.865	30.88	1.000	1.000	56.415		0.157	56.4
11	11 1,2,3,4,7,8-HxCDF	7.43e5	1.21	NO	0.842	10.035	33.454	33.47	1.000	1.000	193.69		0.209	194
12	12 1,2,3,6,7,8-HxCDF	1.65e5	1.23	NO	0.894	10.035	33.592	33.60	1.000	1.001	40.607		0.212	40.6
13	13 2,3,4,6,7,8-HxCDF	5.14e4	1.21	NO	0.870	10.035	34.274	34.28	1.001	1.001	13.502		0.232	13.5
14	14 1,2,3,7,8,9-HxCDF	6.25e4	1.25	NO	0.855	10.035	35.285	35.31	1.001	1.001	18.270		0.285	18.3
15	15 1,2,3,4,6,7,8-HpCDF	2.95e5	1.01	NO	0.891	10.035	36.874	36.86	1.001	1.001	99.769		0.413	99.8
16	16 1,2,3,4,7,8,9-HpCDF	9.54e4	1.02	NO	1.00	10.035	38.807	38.82	1.000	1.000	35.335		0.360	35.3
17	17 OCDF	4.27e5	0.87	NO	0.784	10.035	41.435	41.44	1.000	1.000	194.43		0.359	194
18	18 13C-2,3,7,8-TCDD	1.04e6	0.77	NO	1.15	10.035	26.420	26.43	1.029	1.029	174.42	87.5	0.113	
19	19 13C-1,2,3,7,8-PeCDD	9.64e5	0.63	NO	0.887	10.035	31.012	31.06	1.207	1.209	209.16	105	0.147	
20	20 13C-1,2,3,4,7,8-HxCDD	7.25e5	1.28	NO	0.801	10.035	34.372	34.36	1.014	1.014	185.46	93.1	0.266	
21	21 13C-1,2,3,6,7,8-HxCDD	8.12e5	1.26	NO	0.892	10.035	34.501	34.49	1.018	1.017	186.67	93.7	0.239	
22	22 13C-1,2,3,7,8,9-HxCDD	8.23e5	1.26	NO	0.882	10.035	34.762	34.75	1.025	1.025	191.31	96.0	0.242	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.23e5	1.05	NO	0.719	10.035	38.196	38.19	1.127	1.127	206.29	104	0.484	
24	24 13C-OCDD	1.07e6	0.89	NO	0.563	10.035	41.125	41.14	1.213	1.213	391.27	98.2	0.467	
25	25 13C-2,3,7,8-TCDF	1.30e6	0.77	NO	1.01	10.035	25.763	25.76	1.003	1.003	174.20	87.4	0.220	
26	26 13C-1,2,3,7,8-PeCDF	1.28e6	1.58	NO	0.814	10.035	29.772	29.81	1.159	1.161	212.59	107	0.351	
27	27 13C-2,3,4,7,8-PeCDF	1.24e6	1.56	NO	0.768	10.035	30.809	30.86	1.200	1.202	218.69	110	0.372	
28	28 13C-1,2,3,4,7,8-HxCDF	9.08e5	0.50	NO	0.993	10.035	33.450	33.45	0.987	0.987	187.59	94.1	0.360	
29	29 13C-1,2,3,6,7,8-HxCDF	9.08e5	0.51	NO	0.990	10.035	33.593	33.58	0.991	0.991	187.97	94.3	0.361	
30	30 13C-2,3,4,6,7,8-HxCDF	8.72e5	0.51	NO	0.944	10.035	34.260	34.25	1.011	1.010	189.47	95.1	0.378	
31	31 13C-1,2,3,7,8,9-HxCDF	7.97e5	0.51	NO	0.842	10.035	35.277	35.26	1.041	1.040	194.12	97.4	0.424	

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-14B.qld

Last Altered: Thursday, October 22, 2020 07:24:07 Pacific Daylight Time

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Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

#	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	6.61e5	0.43	NO	0.687	10.035	36.867	36.84	1.087	1.087	197.47	99.1	0.532	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.38e5	0.43	NO	0.555	10.035	38.817	38.81	1.145	1.145	198.95	99.8	0.659	
34	34 13C-OCDF	1.12e6	0.87	NO	0.608	10.035	41.407	41.44	1.221	1.222	376.36	94.4	0.485	
35	35 37Cl-2,3,7,8-TCDD	4.02e5			1.18	10.035	26.451	26.45	1.030	1.030	65.594	82.3	0.0384	
36	36 13C-1,2,3,4-TCDD	1.04e6	0.79	NO	1.00	10.035	25.740	25.68	1.000	1.000	199.31	100	0.130	
37	37 13C-1,2,3,4-TCDF	1.48e6	0.79	NO	1.00	10.035	24.310	24.23	1.000	1.000	199.31	100	0.222	
38	38 13C-1,2,3,4,6,9-HxCDF	9.72e5	0.51	NO	1.00	10.035	33.920	33.90	1.000	1.000	199.31	100	0.357	
39	39 Total Tetra-Dioxins				1.02	10.035	24.620		0.000		17.353		0.0445	17.4
40	40 Total Penta-Dioxins				0.956	10.035	29.960		0.000		19.588		0.0970	21.4
41	41 Total Hexa-Dioxins				0.888	10.035	33.635		0.000		99.219		0.198	99.2
42	42 Total Hepta-Dioxins				0.832	10.035	37.640		0.000		511.97		0.766	512
43	43 Total Tetra-Furans				0.735	10.035	23.610		0.000		261.86		0.0696	265
44	44 1st Func. Penta-Furans				0.939	10.035	27.230		0.000		42.455		0.0197	42.5
45	45 Total Penta-Furans				0.939	10.035	29.275		0.000		271.22		0.181	275
46	46 Total Hexa-Furans				0.870	10.035	33.555		0.000		398.83		0.231	399
47	47 Total Hepta-Furans				0.891	10.035	37.835		0.000		314.16		0.409	314

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-14B.qld

Last Altered: Thursday, October 22, 2020 07:24:07 Pacific Daylight Time

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Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.76	2.325e5	3.029e5	1.978e4	2.487e4	0.80	NO	4.465e4	8.3903	8.3903	0.0445
2	Total Tetra-Dioxins	23.09	3.171e4	4.727e4	2.867e3	3.860e3	0.74	NO	6.726e3	1.2639	1.2639	0.0445
3	Total Tetra-Dioxins	23.59	1.785e4	2.091e4	1.415e3	1.738e3	0.81	NO	3.153e3	0.59249	0.59249	0.0445
4	Total Tetra-Dioxins	24.41	1.095e4	1.163e4	8.461e2	9.810e2	0.86	NO	1.827e3	0.34331	0.34331	0.0445
5	Total Tetra-Dioxins	24.62	2.121e4	2.872e4	1.814e3	2.207e3	0.82	NO	4.020e3	0.75540	0.75540	0.0445
6	Total Tetra-Dioxins	24.84	2.777e4	3.224e4	1.892e3	2.276e3	0.83	NO	4.168e3	0.78310	0.78310	0.0445
7	Total Tetra-Dioxins	25.04	1.058e4	9.213e3	6.468e2	7.801e2	0.83	NO	1.427e3	0.26811	0.26811	0.0445
8	Total Tetra-Dioxins	25.32	8.154e3	1.037e4	5.037e2	6.306e2	0.80	NO	1.134e3	0.21312	0.21312	0.0445
9	Total Tetra-Dioxins	25.41	1.290e4	1.790e4	7.675e2	1.054e3	0.73	NO	1.822e3	0.34234	0.34234	0.0445
10	Total Tetra-Dioxins	25.73	4.326e3	4.029e3	1.807e2	2.295e2	0.79	NO	4.101e2	0.077059	0.077059	0.0445
11	Total Tetra-Dioxins	25.77	9.527e3	1.248e4	7.373e2	8.439e2	0.87	NO	1.581e3	0.29710	0.29710	0.0445
12	Total Tetra-Dioxins	25.89	3.201e3	4.869e3	2.365e2	2.846e2	0.83	NO	5.211e2	0.097918	0.097918	0.0445
13	Total Tetra-Dioxins	26.18	5.363e4	7.047e4	3.553e3	4.746e3	0.75	NO	8.298e3	1.5592	1.5592	0.0445
14	2,3,7,8-TCDD	26.45	6.419e4	9.915e4	4.102e3	6.084e3	0.67	NO	1.019e4	1.9139	1.9139	0.0445
15	Total Tetra-Dioxins	26.76	1.178e4	1.746e4	7.646e2	9.665e2	0.79	NO	1.731e3	0.32526	0.32526	0.0445
16	Total Tetra-Dioxins	27.33	4.390e3	6.888e3	2.755e2	4.187e2	0.66	NO	6.942e2	0.13044	0.13044	0.0445

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-14B.qld

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Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

**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	1.487e5	2.218e5	1.045e4	1.651e4	0.63	NO	2.696e4	5.8315	5.8315	0.0970
2	Total Penta-Dioxins	29.31	4.846e4	7.946e4	2.403e3	3.866e3	0.62	NO	6.269e3	1.3562	1.3562	0.0970
3	Total Penta-Dioxins	29.83	1.558e5	2.529e5	8.244e3	1.250e4	0.66	NO	2.074e4	4.4873	4.4873	0.0970
4	Total Penta-Dioxins	30.01	6.116e4	8.548e4	2.773e3	3.916e3	0.71	NO	6.689e3	1.4470	1.4470	0.0970
5	Total Penta-Dioxins	30.04	5.679e4	9.212e4	3.518e3	4.988e3	0.71	NO	0.000e0	0.00000	1.8401	0.0970
6	Total Penta-Dioxins	30.30	7.804e4	1.113e5	5.931e3	8.352e3	0.71	NO	1.428e4	3.0899	3.0899	0.0970
7	Total Penta-Dioxins	30.59	1.416e4	2.265e4	8.712e2	1.430e3	0.61	NO	2.301e3	0.49780	0.49780	0.0970
8	1,2,3,7,8-PeCDD	31.08	5.561e4	7.430e4	2.650e3	3.809e3	0.70	NO	6.459e3	1.3974	1.3974	0.0970
9	Total Penta-Dioxins	31.17	2.647e4	3.566e4	1.503e3	2.125e3	0.71	NO	3.628e3	0.78493	0.78493	0.0970
10	Total Penta-Dioxins	31.43	2.564e4	3.712e4	1.332e3	1.887e3	0.71	NO	3.219e3	0.69641	0.69641	0.0970

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.73	1.578e6	1.294e6	7.759e4	6.351e4	1.22	NO	1.411e5	40.261	40.261	0.198
2	Total Hexa-Dioxins	33.34	1.941e5	1.682e5	1.068e4	8.838e3	1.21	NO	1.951e4	5.5681	5.5681	0.198
3	Total Hexa-Dioxins	33.62	1.024e6	8.499e5	7.158e4	5.781e4	1.24	NO	1.294e5	36.920	36.920	0.198
4	Total Hexa-Dioxins	33.72	7.719e4	5.881e4	3.503e3	2.584e3	1.36	NO	6.087e3	1.7368	1.7368	0.198
5	1,2,3,4,7,8-HxCDD	34.39	5.240e4	3.936e4	2.966e3	2.219e3	1.34	NO	5.186e3	1.4235	1.4235	0.185
6	1,2,3,6,7,8-HxCDD	34.50	2.660e5	2.232e5	1.572e4	1.255e4	1.25	NO	2.827e4	7.8150	7.8150	0.191
7	Total Hexa-Dioxins	34.67	5.454e4	4.327e4	3.350e3	2.662e3	1.26	NO	6.012e3	1.7155	1.7155	0.198
8	1,2,3,7,8,9-HxCDD	34.78	1.209e5	1.007e5	7.788e3	6.408e3	1.22	NO	1.420e4	3.7797	3.7797	0.191

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.24	6.858e6	6.771e6	4.940e5	4.857e5	1.02	NO	9.798e5	324.62	324.62	0.766
2	1,2,3,4,6,7,8-HpCDD	38.20	5.024e6	4.940e6	2.862e5	2.793e5	1.02	NO	5.654e5	187.35	187.35	0.766



Dataset: U:\VG12.PRO\Results\200930R1\200930R1-14B.qld

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Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.50	1.515e4	2.018e4	1.338e3	1.657e3	0.81	NO	2.994e3	0.62312	0.62312	0.0696
2	Total Tetra-Furans	21.09	4.700e4	6.043e4	4.202e3	5.419e3	0.78	NO	9.621e3	2.0021	2.0021	0.0696
3	Total Tetra-Furans	21.90	2.072e5	2.979e5	2.041e4	2.789e4	0.73	NO	4.830e4	10.052	10.052	0.0696
4	Total Tetra-Furans	22.15	3.809e3	7.784e3	3.732e2	5.315e2	0.70	NO	9.046e2	0.18825	0.18825	0.0696
5	Total Tetra-Furans	22.24	2.048e4	2.830e4	1.396e3	1.984e3	0.70	NO	3.380e3	0.70346	0.70346	0.0696
6	Total Tetra-Furans	22.38	5.280e4	6.906e4	5.136e3	7.111e3	0.72	NO	1.225e4	2.5487	2.5487	0.0696
7	Total Tetra-Furans	22.45	3.609e4	5.032e4	2.570e3	3.384e3	0.76	NO	5.954e3	1.2390	1.2390	0.0696
8	Total Tetra-Furans	22.79	4.824e5	6.624e5	4.263e4	5.712e4	0.75	NO	9.975e4	20.757	20.757	0.0696
9	Total Tetra-Furans	23.24	2.580e5	3.297e5	1.987e4	2.690e4	0.74	NO	4.677e4	9.7328	9.7328	0.0696
10	Total Tetra-Furans	23.36	2.485e4	3.238e4	1.717e3	2.264e3	0.76	NO	3.981e3	0.82843	0.82843	0.0696
11	Total Tetra-Furans	23.59	7.631e4	1.086e5	6.004e3	8.683e3	0.69	NO	1.469e4	3.0564	3.0564	0.0696
12	Total Tetra-Furans	23.98	2.009e4	2.299e4	1.400e3	1.989e3	0.70	NO	3.389e3	0.70534	0.70534	0.0696
13	Total Tetra-Furans	24.10	2.275e4	2.947e4	1.555e3	2.051e3	0.76	NO	3.606e3	0.75046	0.75046	0.0696
14	Total Tetra-Furans	24.34	2.676e5	3.466e5	3.148e4	4.160e4	0.76	NO	7.308e4	15.208	15.208	0.0696
15	Total Tetra-Furans	24.78	2.329e6	3.105e6	1.619e5	2.157e5	0.75	NO	3.776e5	78.588	78.588	0.0696
16	Total Tetra-Furans	25.10	8.622e4	1.023e5	5.419e3	7.138e3	0.76	NO	1.256e4	2.6131	2.6131	0.0696
17	Total Tetra-Furans	25.50	3.452e4	4.584e4	2.056e3	2.832e3	0.73	NO	4.888e3	1.0172	1.0172	0.0696
18	Total Tetra-Furans	25.65	2.891e5	4.093e5	1.763e4	2.365e4	0.75	NO	4.127e4	8.5891	8.5891	0.0696
19	2,3,7,8-TCDF	25.77	2.897e6	3.888e6	1.834e5	2.467e5	0.74	NO	4.301e5	89.512	89.512	0.0696
20	Total Tetra-Furans	25.86	5.979e4	7.214e4	2.384e3	3.475e3	0.69	NO	5.859e3	1.2192	1.2192	0.0696
21	Total Tetra-Furans	26.07	1.225e5	1.625e5	9.217e3	1.281e4	0.72	NO	2.202e4	4.5834	4.5834	0.0696
22	Total Tetra-Furans	26.34	2.280e4	2.425e4	1.245e3	1.460e3	0.85	NO	2.705e3	0.56284	0.56284	0.0696
23	Total Tetra-Furans	26.99	2.380e4	1.214e4	1.527e3	1.015e3	1.51	YES	0.000e0	0.00000	0.37369	0.0696
24	Total Tetra-Furans	27.25	5.481e4	6.599e4	3.237e3	4.298e3	0.75	NO	7.534e3	1.5679	1.5679	0.0696
25	Total Tetra-Furans	27.46	1.918e5	1.294e5	1.128e4	7.941e3	1.42	YES	0.000e0	0.00000	2.9248	0.0696
26	Total Tetra-Furans	27.63	1.964e5	2.562e5	1.069e4	1.437e4	0.74	NO	2.506e4	5.2151	5.2151	0.0696

**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	27.24	2.616e6	1.657e6	1.553e5	9.718e4	1.60	NO	2.525e5	42.455	42.455	0.0197

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-14B.qld

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Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.70	1.331e5	7.940e4	8.718e3	5.894e3	1.48	NO	1.461e4	2.4569	2.4569	0.181
2	Total Penta-Furans	28.85	3.375e6	2.191e6	2.085e5	1.320e5	1.58	NO	3.405e5	57.250	57.250	0.181
3	Total Penta-Furans	28.94	6.022e4	3.453e4	2.955e3	1.783e3	1.66	NO	4.738e3	0.79661	0.79661	0.181
4	Total Penta-Furans	29.31	2.236e4	1.462e4	1.576e3	9.167e2	1.72	NO	2.493e3	0.41910	0.41910	0.181
5	Total Penta-Furans	29.48	5.561e5	3.540e5	3.523e4	2.292e4	1.54	NO	5.815e4	9.7783	9.7783	0.181
6	Total Penta-Furans	29.63	8.571e5	5.743e5	4.290e4	2.794e4	1.54	NO	7.084e4	11.911	11.911	0.181
7	1,2,3,7,8-PeCDF	29.83	6.895e6	4.442e6	3.467e5	2.233e5	1.55	NO	5.700e5	94.416	94.416	0.186
8	Total Penta-Furans	29.90	1.810e5	1.045e5	6.690e3	4.140e3	1.62	NO	1.083e4	1.8209	1.8209	0.181
9	Total Penta-Furans	30.09	2.437e6	1.515e6	1.270e5	8.030e4	1.58	NO	2.073e5	34.852	34.852	0.181
10	Total Penta-Furans	30.70	8.755e4	4.664e4	4.024e3	2.521e3	1.60	NO	6.545e3	1.1005	1.1005	0.181
11	2,3,4,7,8-PeCDF	30.88	4.482e6	2.858e6	2.239e5	1.456e5	1.54	NO	3.695e5	56.415	56.415	0.157
12	Total Penta-Furans	31.74	1.292e5	6.271e4	6.235e3	2.860e3	2.18	YES	0.000e0	0.00000	1.2262	0.181
13	Total Penta-Furans	31.78	1.994e5	1.175e5	1.004e4	6.049e3	1.66	NO	0.000e0	0.00000	2.7054	0.181

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.20	5.415e5	4.649e5	2.566e4	2.117e4	1.21	NO	4.682e4	12.313	12.313	0.231
2	Total Hexa-Furans	32.37	2.033e6	1.682e6	9.337e4	7.656e4	1.22	NO	1.699e5	44.690	44.690	0.231
3	Total Hexa-Furans	32.78	3.655e4	3.269e4	2.305e3	1.868e3	1.23	NO	4.173e3	1.0974	1.0974	0.231
4	Total Hexa-Furans	33.00	2.613e6	2.125e6	1.302e5	1.071e5	1.22	NO	2.373e5	62.412	62.412	0.231
5	Total Hexa-Furans	33.35	1.061e5	8.464e4	5.160e3	3.976e3	1.30	NO	9.136e3	2.4027	2.4027	0.231
6	1,2,3,4,7,8-HxCDF	33.47	7.637e6	6.403e6	4.065e5	3.364e5	1.21	NO	7.429e5	193.69	193.69	0.209
7	1,2,3,6,7,8-HxCDF	33.60	1.666e6	1.328e6	9.124e4	7.403e4	1.23	NO	1.653e5	40.607	40.607	0.212
8	Total Hexa-Furans	33.91	6.930e4	5.713e4	3.708e3	2.991e3	1.24	NO	6.698e3	1.7616	1.7616	0.231
9	Total Hexa-Furans	34.04	1.049e4	1.030e4	6.601e2	4.710e2	1.40	NO	1.131e3	0.29746	0.29746	0.231
10	2,3,4,6,7,8-HxCDF	34.28	4.447e5	3.769e5	2.817e4	2.325e4	1.21	NO	5.142e4	13.502	13.502	0.232
11	1,2,3,7,8,9-HxCDF	35.31	8.343e5	6.351e5	3.476e4	2.770e4	1.25	NO	6.246e4	18.270	18.270	0.285
12	Total Hexa-Furans	35.32	7.312e5	5.834e5	1.663e4	1.300e4	1.28	NO	2.963e4	7.7922	7.7922	0.231

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-14B.qld

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.86	2.078e6	2.030e6	1.480e5	1.469e5	1.01	NO	2.949e5	99.769	99.769	0.413
2	Total Hepta-Furans	37.34	4.457e4	4.430e4	3.177e3	3.183e3	1.00	NO	6.360e3	2.3729	2.3729	0.409
3	Total Hepta-Furans	37.56	3.693e6	3.657e6	2.383e5	2.353e5	1.01	NO	4.735e5	176.68	176.68	0.409
4	1,2,3,4,7,8,9-HpCDF	38.82	8.550e5	8.428e5	4.812e4	4.727e4	1.02	NO	9.539e4	35.335	35.335	0.360

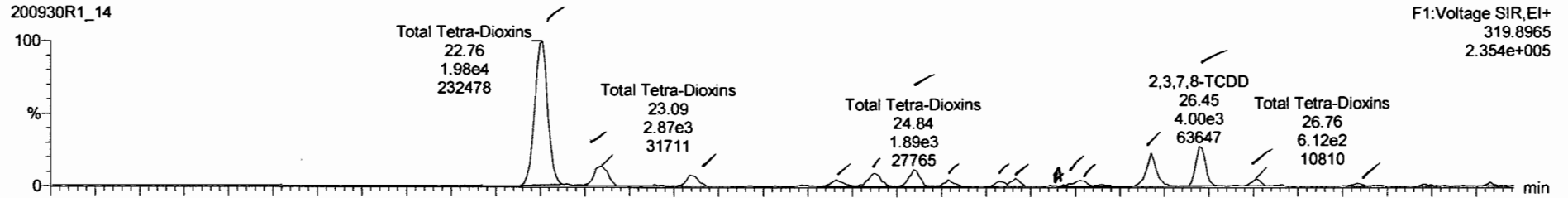
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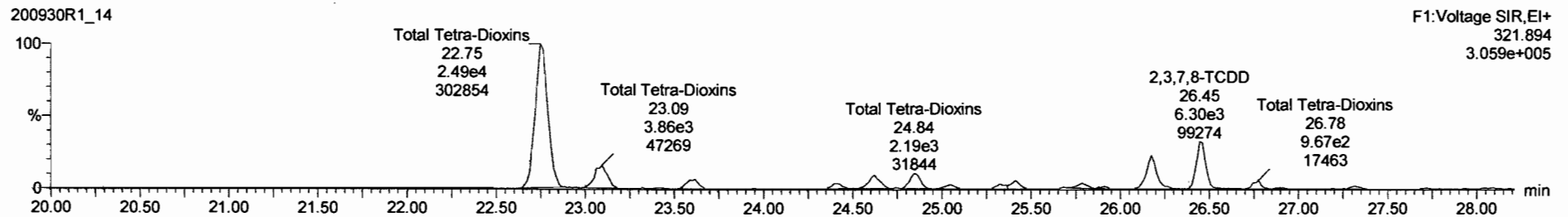
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**2,3,7,8-TCDD**

200930R1\_14

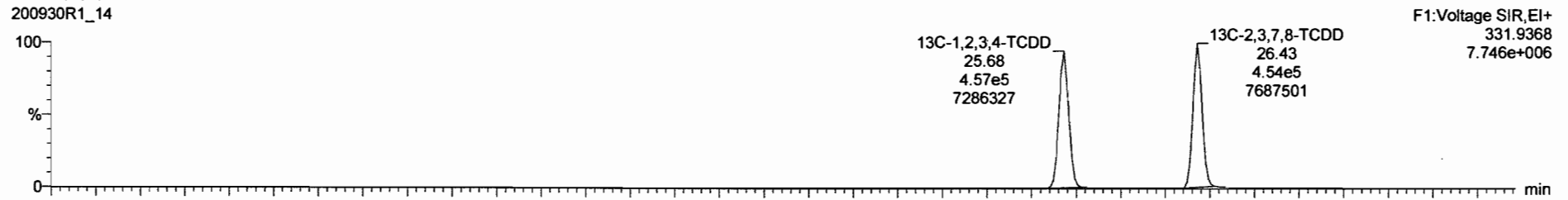


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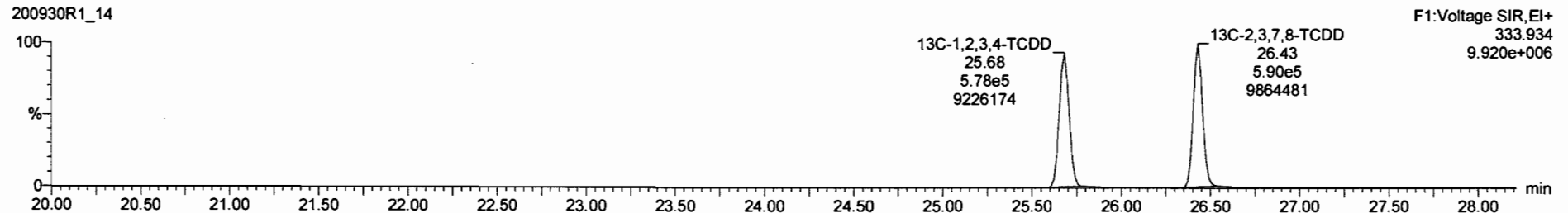


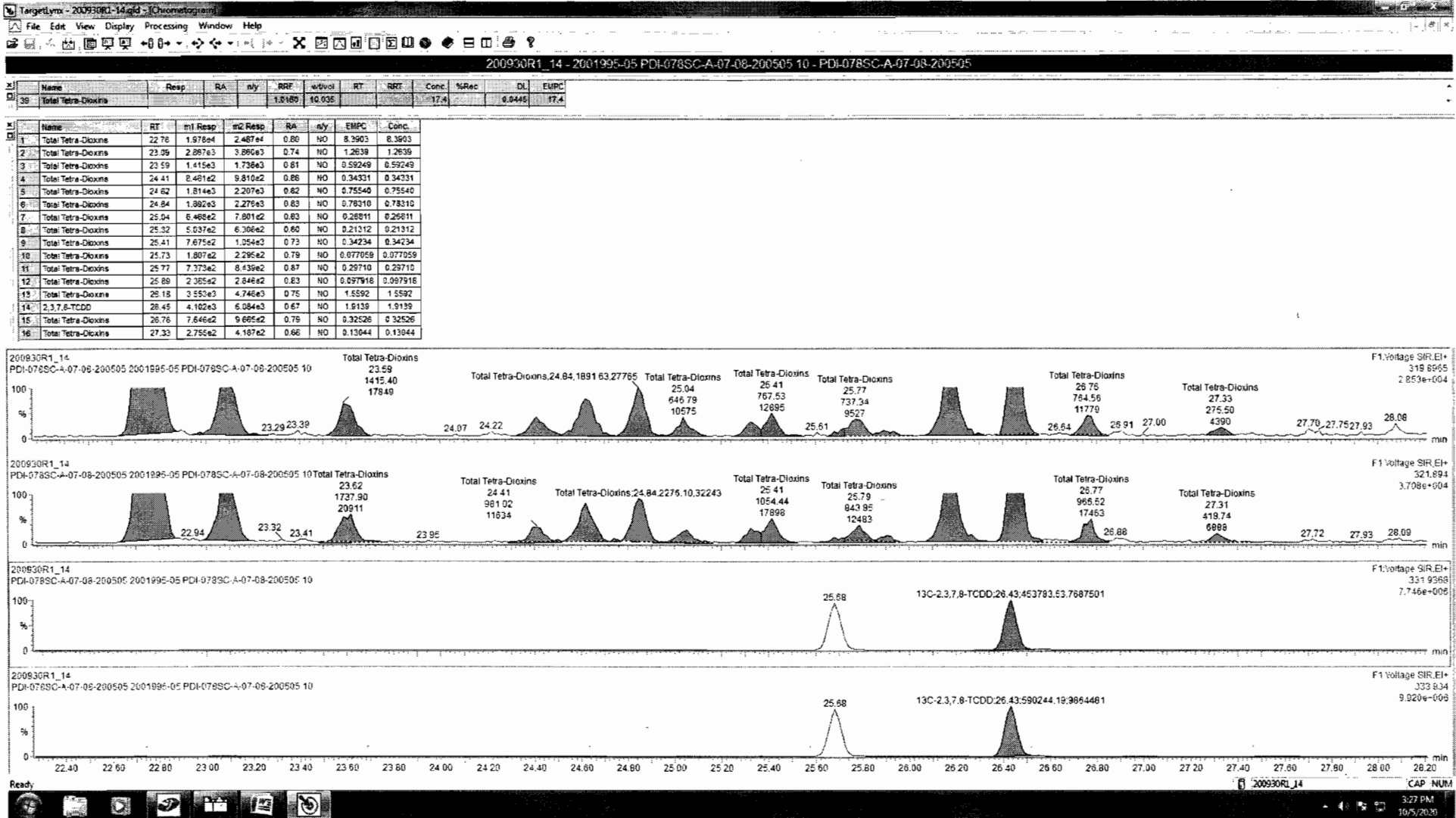
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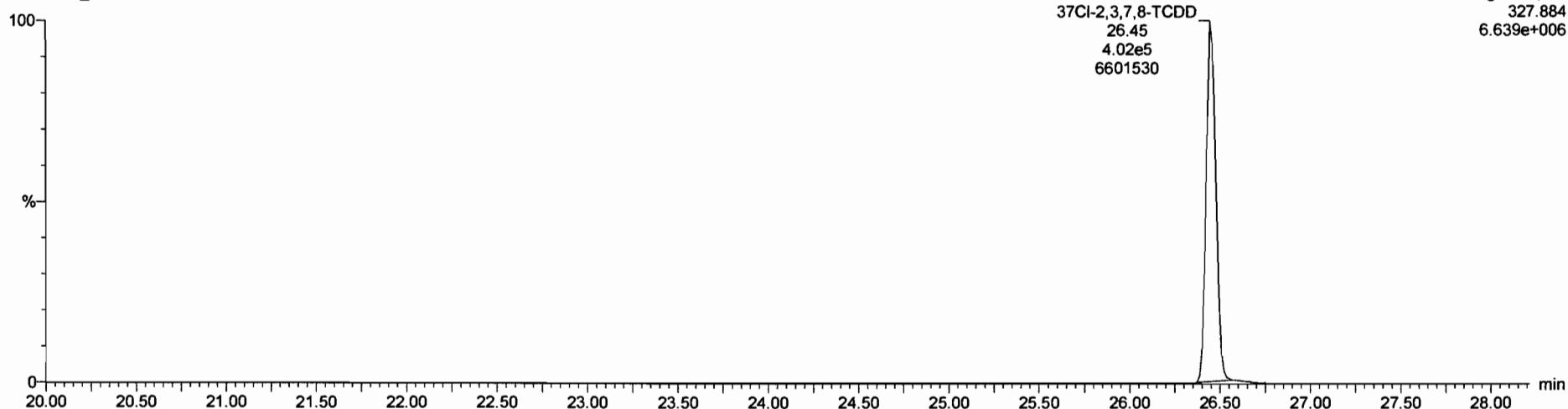
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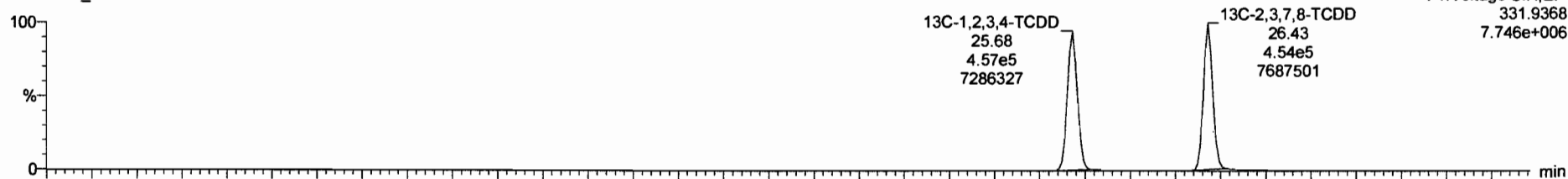
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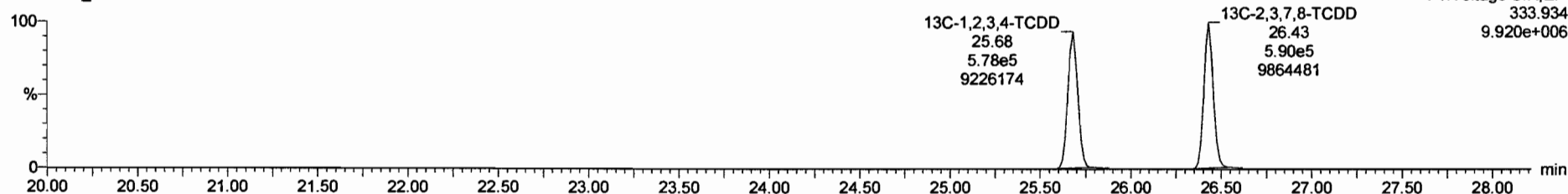


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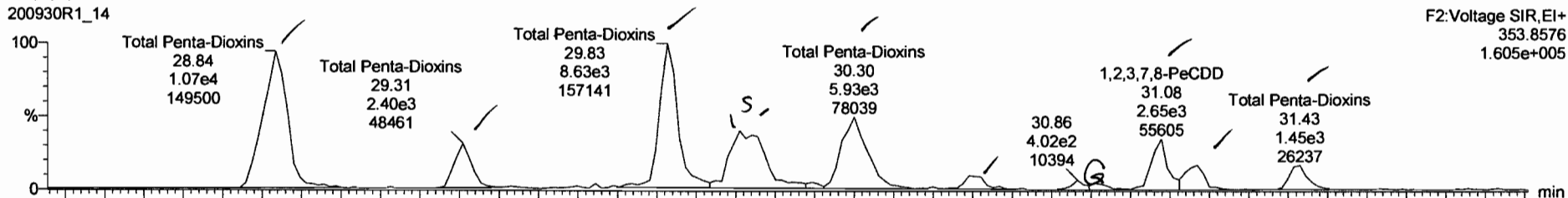
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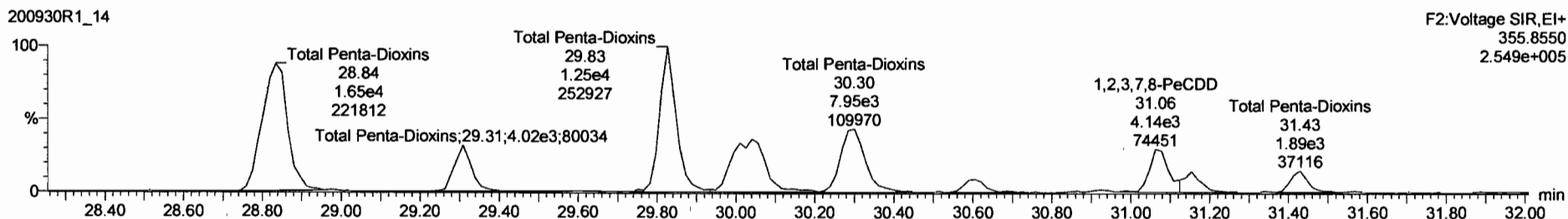
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### 1,2,3,7,8-PeCDD

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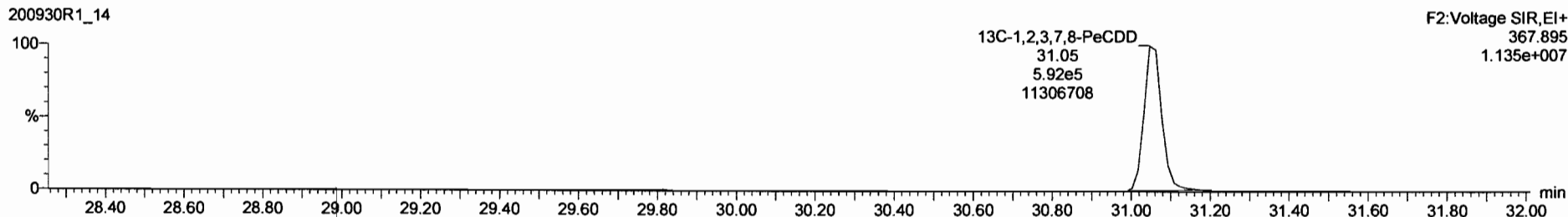


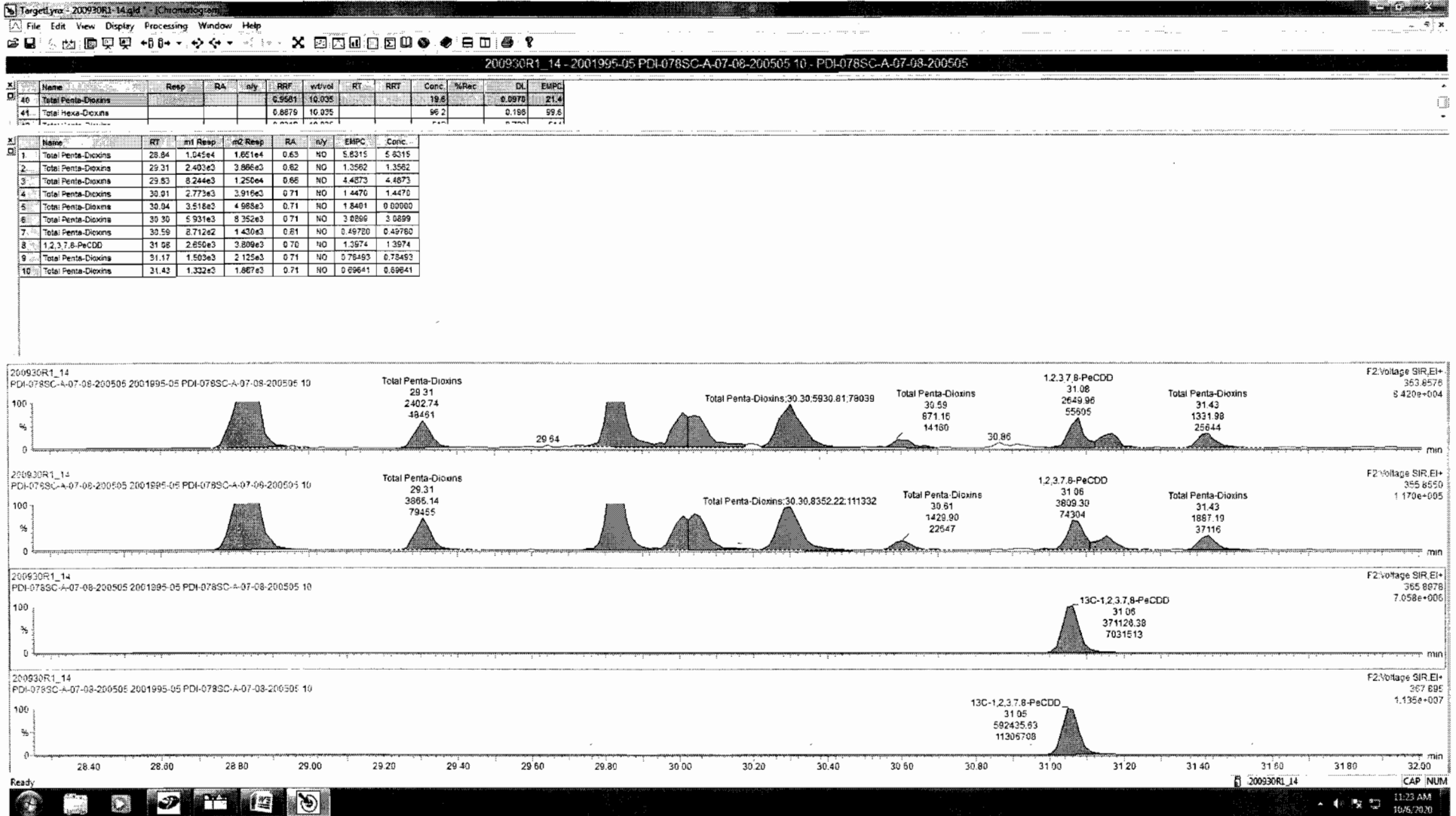
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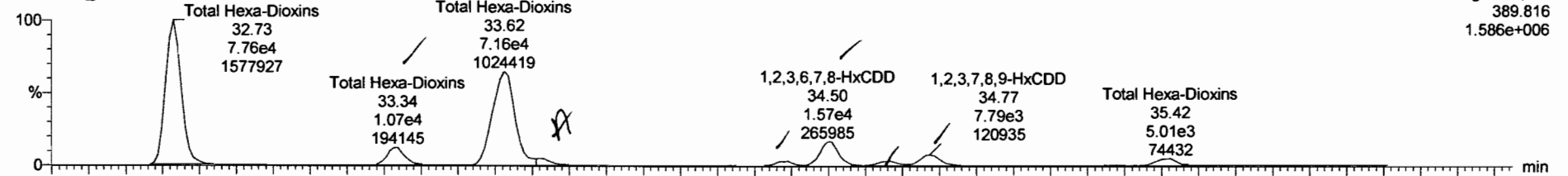
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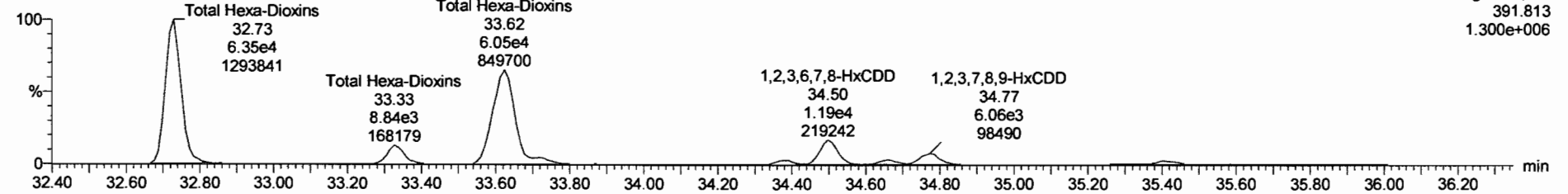
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**1,2,3,4,7,8-HxCDD**

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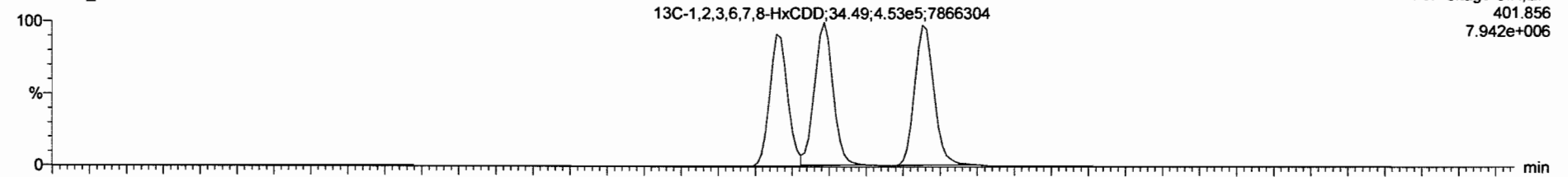


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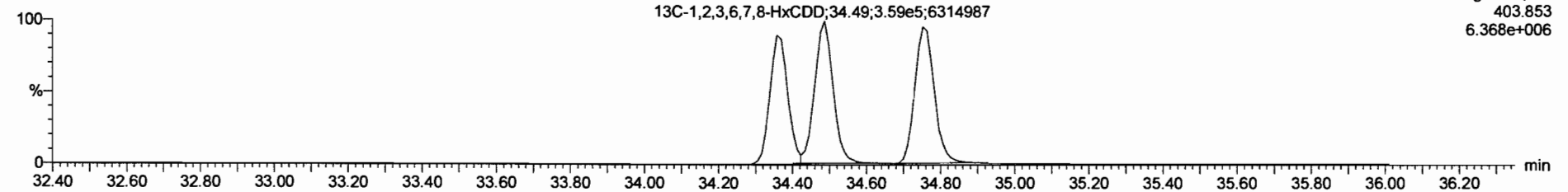


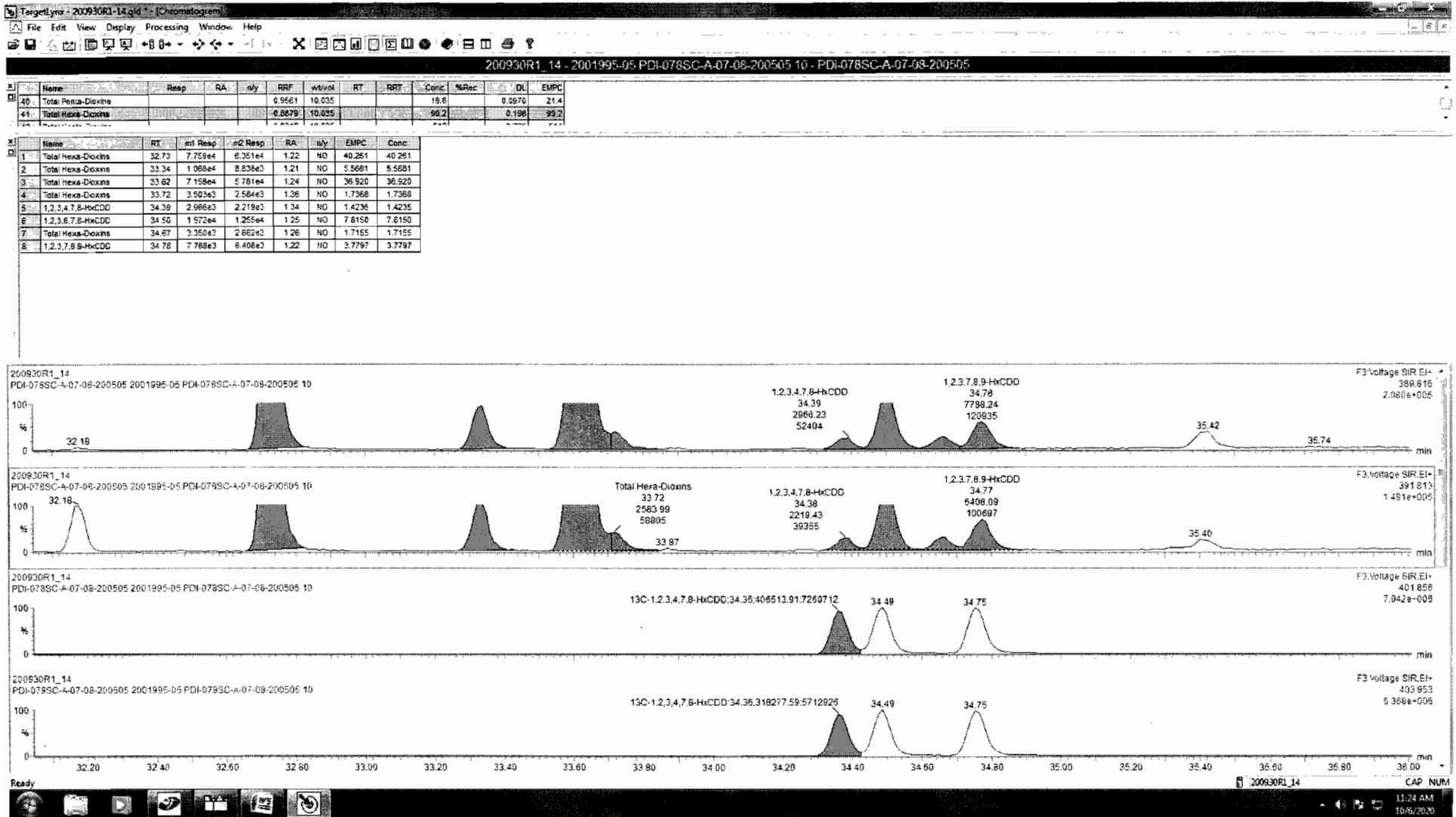
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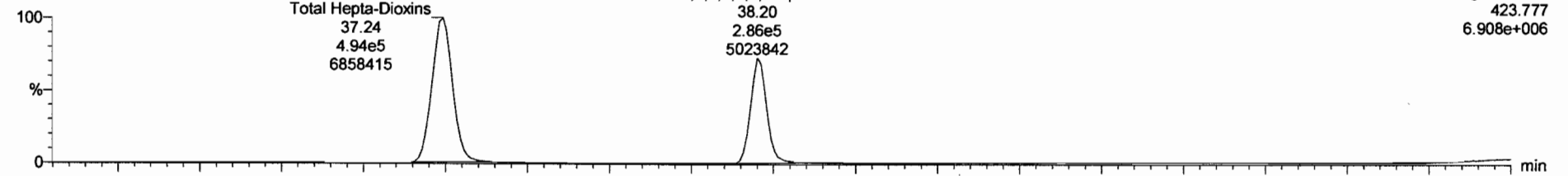
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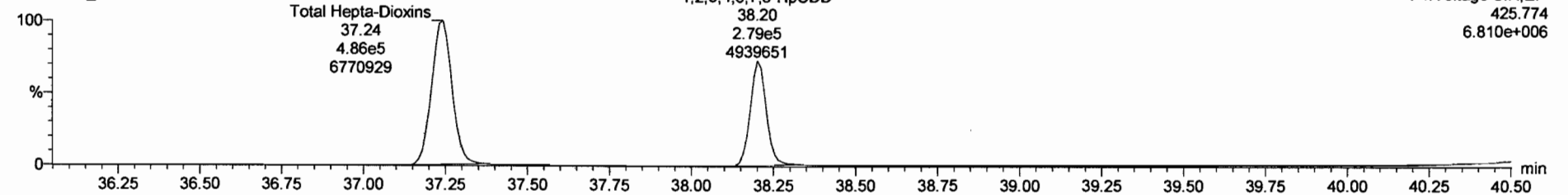
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**1,2,3,4,6,7,8-HpCDD**

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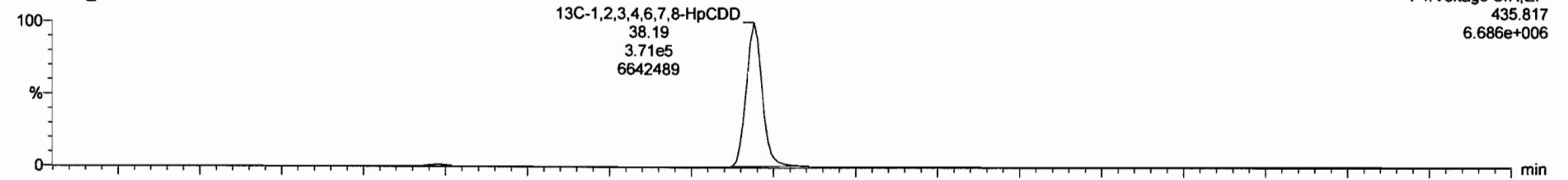


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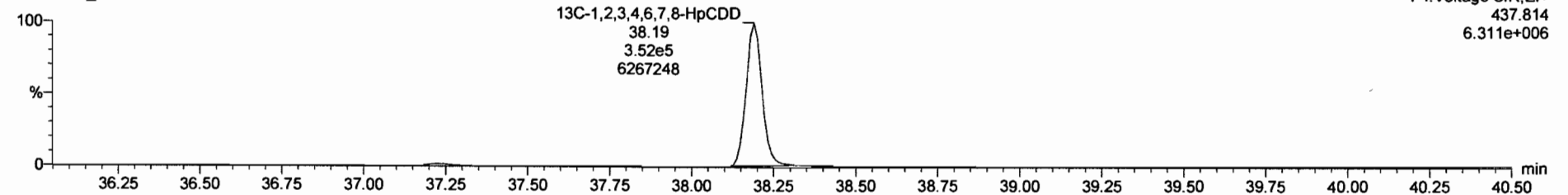


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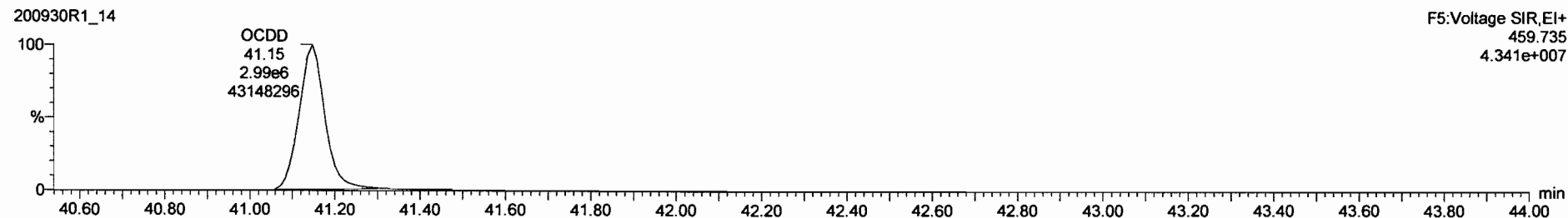
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**OCDD**

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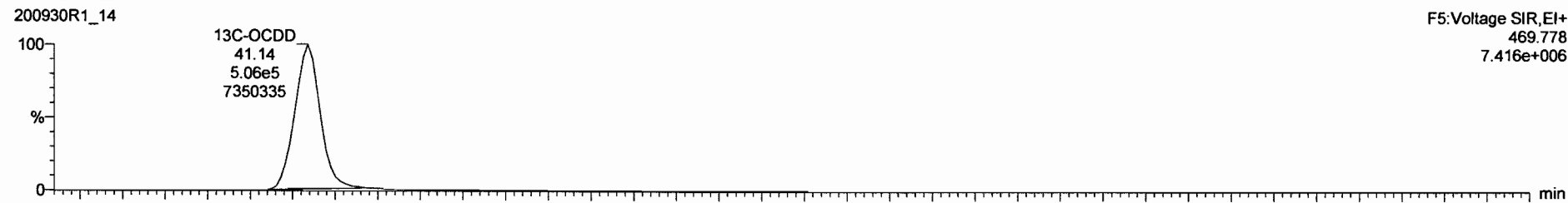


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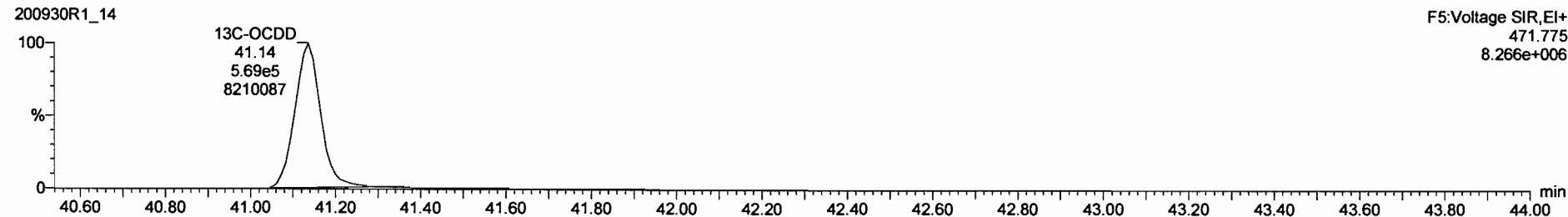


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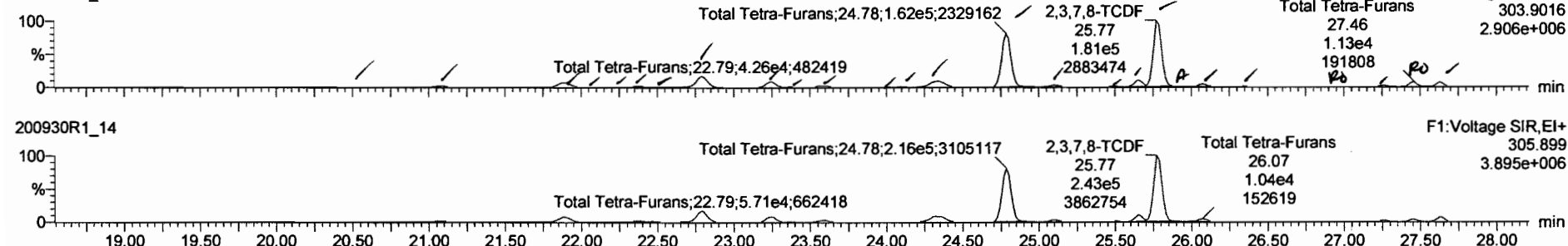
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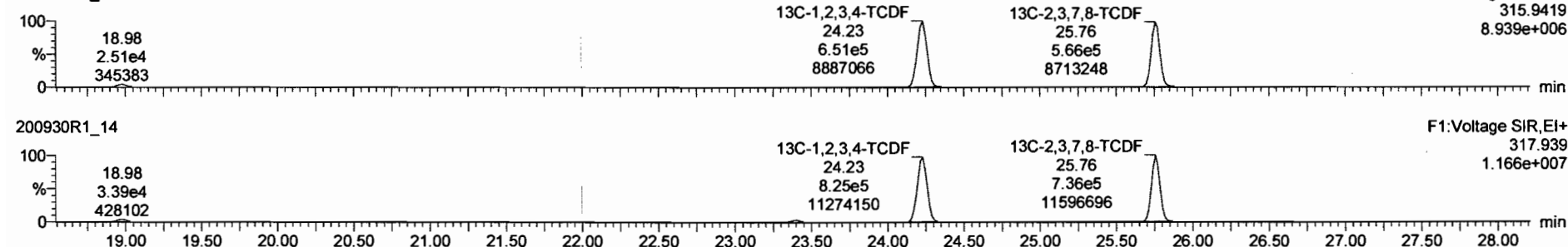
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200930R1\_14



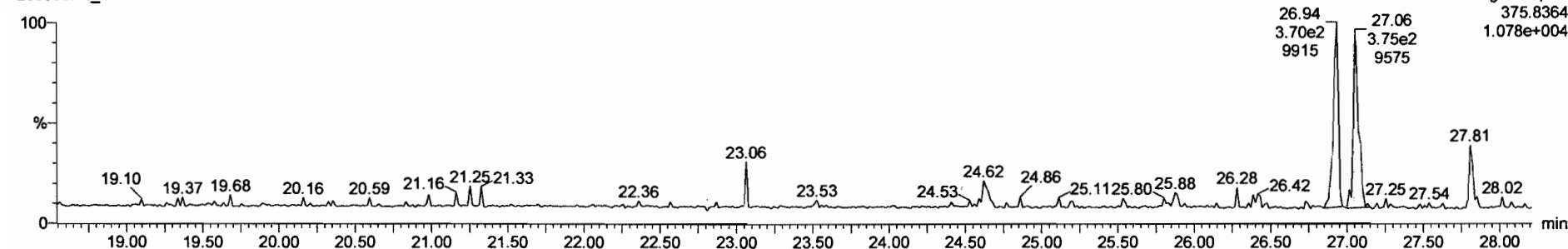
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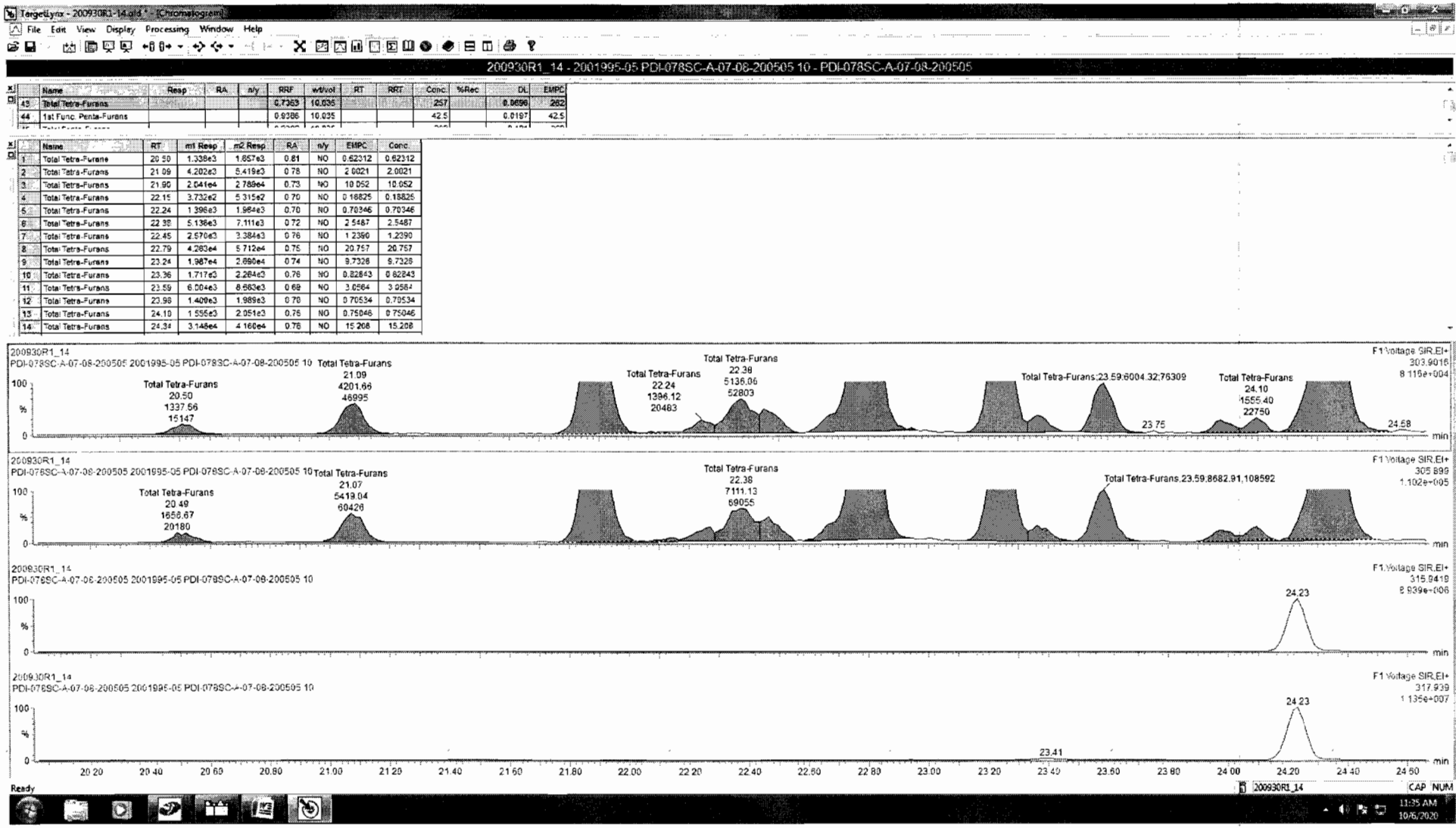
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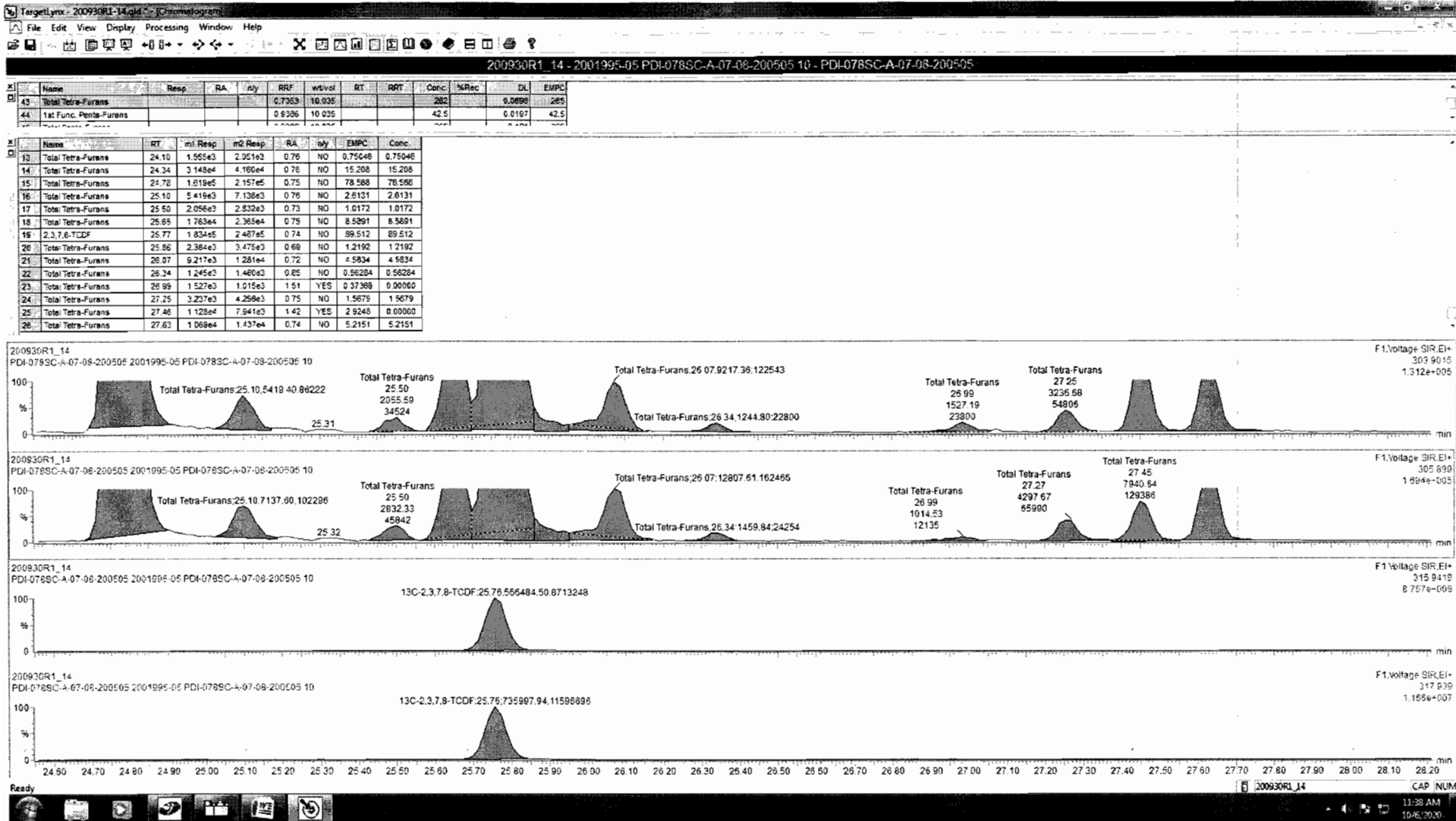


### DPE1

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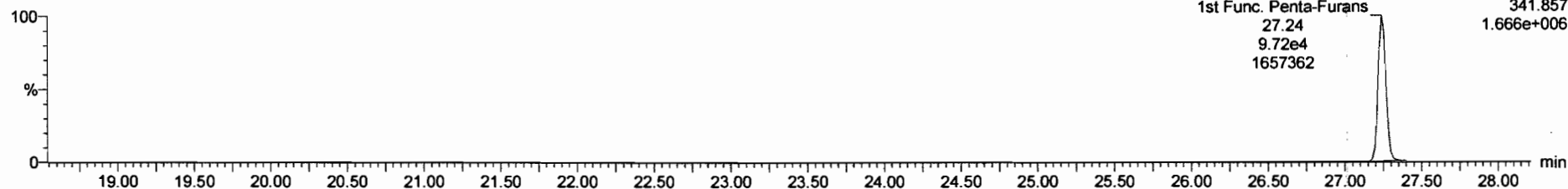
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1st Func. Penta-Furans

200930R1\_14

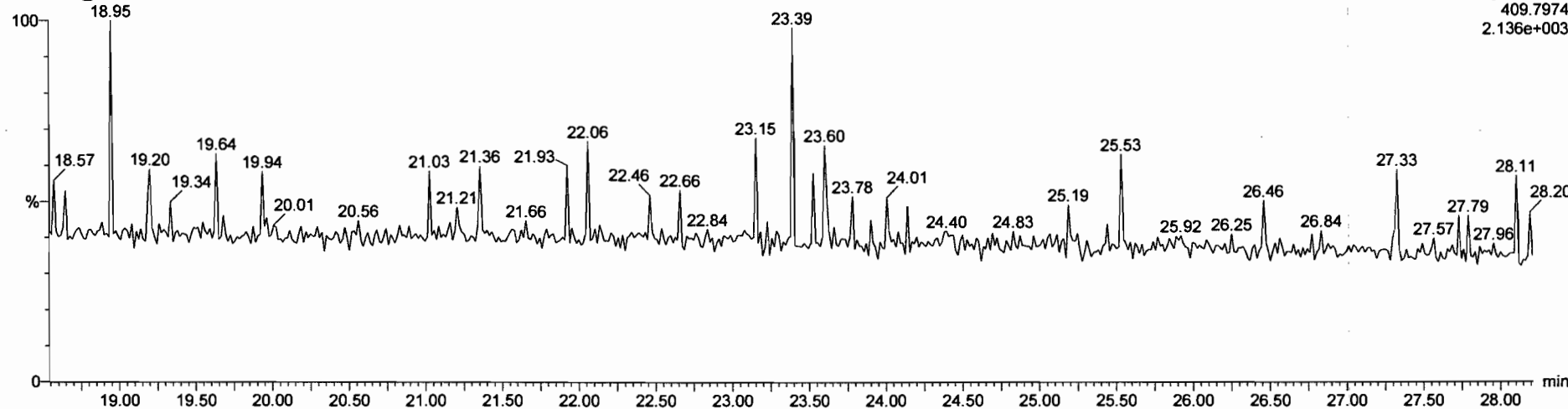


200930R1\_14



DPE6

200930R1\_14





Dataset: Untitled

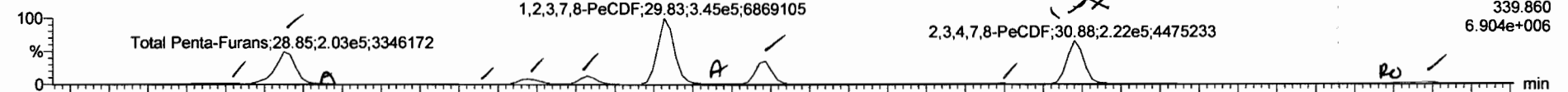
Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time

Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

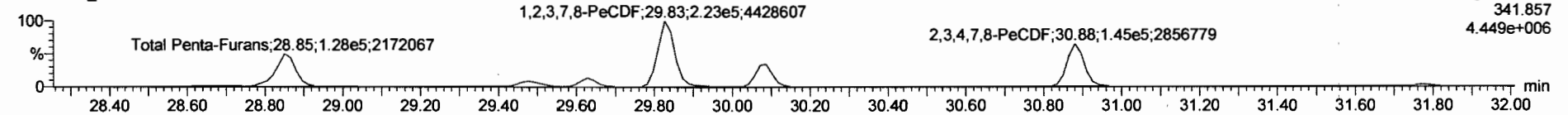
Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

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

200930R1\_14

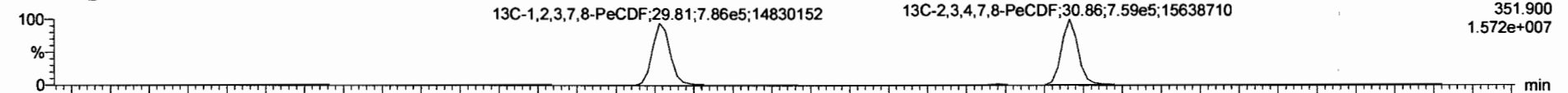


200930R1\_14

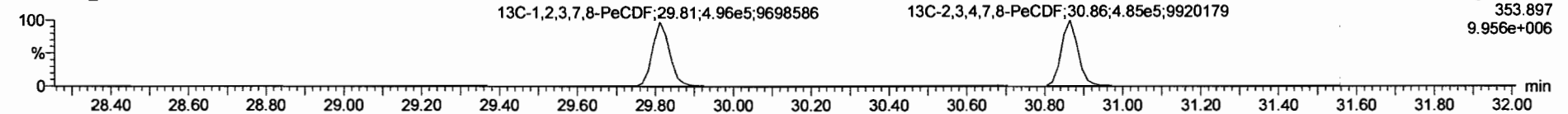


**13C-1,2,3,7,8-PeCDF**

200930R1\_14

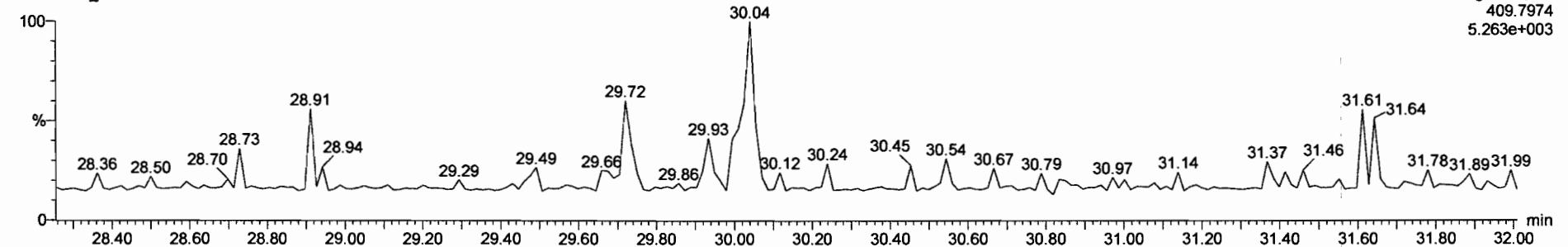


200930R1\_14



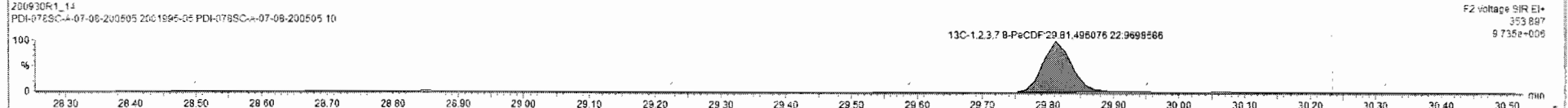
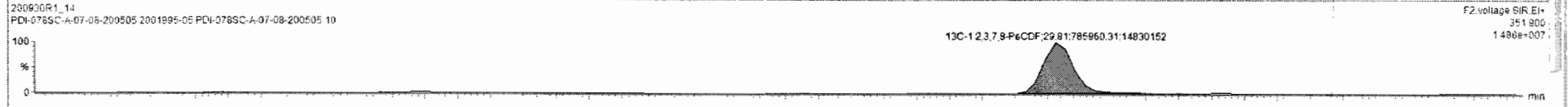
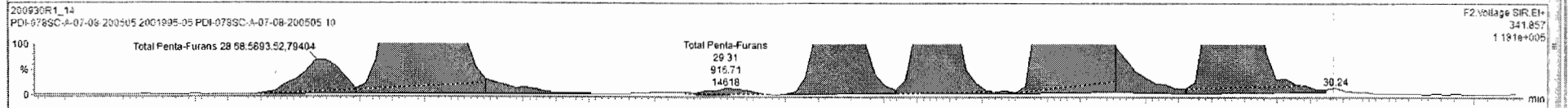
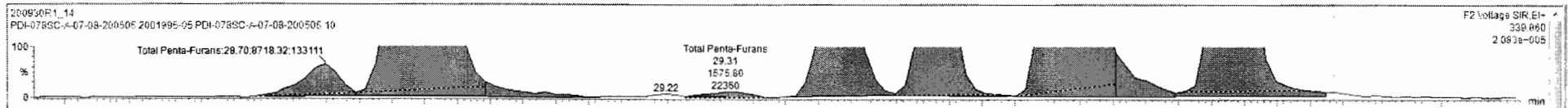
**DPE2**

200930R1\_14

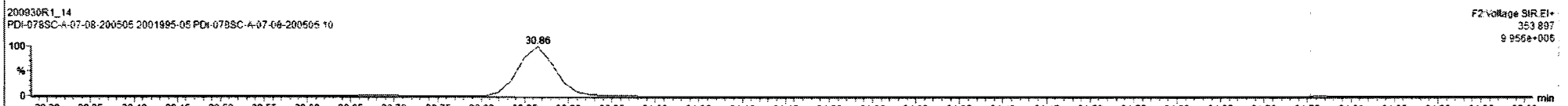
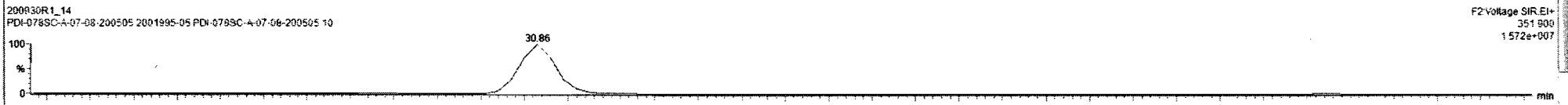
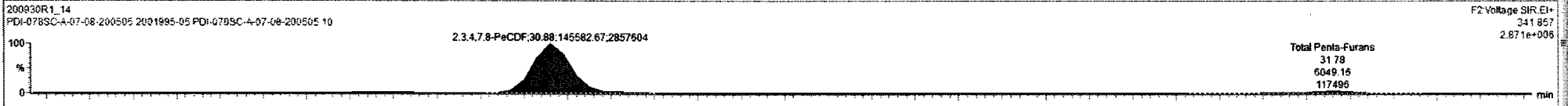
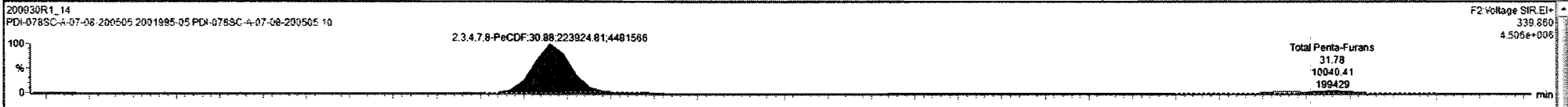


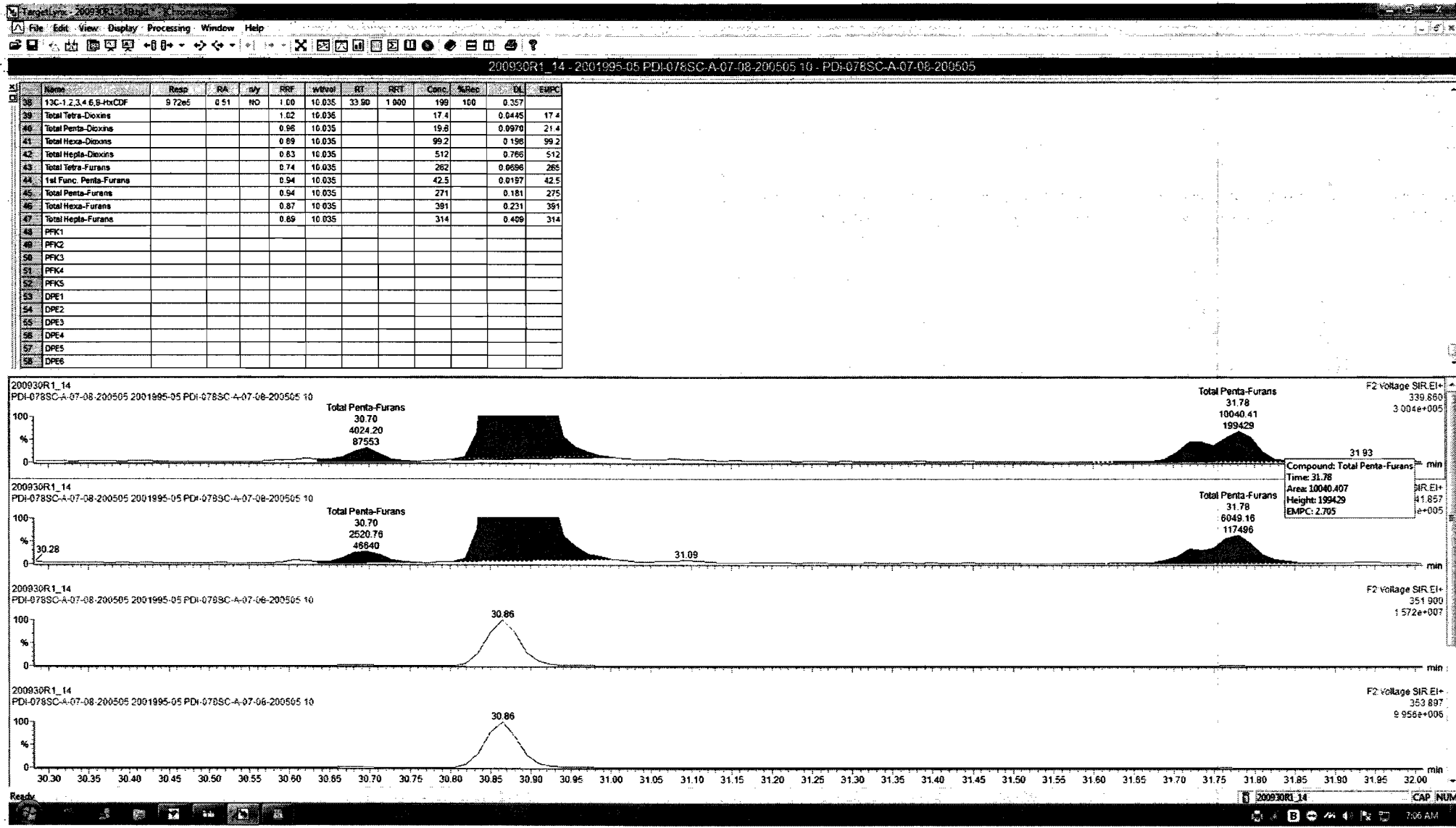
Name	Resp	RA	ny	RRF	act/col	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7383	10.035			262		0.0090	285
44 1st Func. Penta-Furans				0.8386	10.035			42.5		0.0197	42.5

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1 Total Penta-Furans	28.70	8.718e3	5.094e3	1.48	NO	2.4569	2.4569
2 Total Penta-Furans	28.85	2.085e5	1.320e5	1.58	NO	57.250	57.250
3 Total Penta-Furans	28.94	2.955e3	1.783e3	1.66	NO	0.79661	0.79661
4 Total Penta-Furans	29.31	1.576e3	9.167e2	1.72	NO	0.41910	0.41910
5 Total Penta-Furans	29.48	3.523e4	2.292e4	1.54	NO	9.7783	9.7783
6 Total Penta-Furans	29.63	4.290e4	2.764e4	1.54	NO	11.911	11.911
7 1,2,3,7,8-PeCDF	29.83	3.467e5	2.233e5	1.55	NO	94.416	94.416
8 Total Penta-Furans	29.90	6.890e3	4.148e3	1.62	NO	1.8209	1.8209
9 Total Penta-Furans	30.09	1.270e5	8.036e4	1.58	NO	34.852	34.852
10 Total Penta-Furans	30.62	7.272e2	3.915e2	1.08	YES	0.16786	0.09000
11 Total Penta-Furans	30.70	4.024e3	2.521e3	1.60	NO	1.1065	1.1065
12 2,3,4,7,8-PeCDF	30.88	2.225e5	1.455e5	1.53	NO	56.176	56.176
13 Total Penta-Furans	31.08	4.007e2	2.690e2	1.48	NO	0.11274	0.11274
14 Total Penta-Furans	31.78	1.853e4	9.302e3	1.78	NO	4.3436	4.3436
15 Total Penta-Furans	31.53	1.035e3	4.238e2	2.44	YES	0.16171	0.00000



Name	Resp	RA	Qty	RFI	Wt/Wt	RI	RFI	Conc	%Rec	DL	EMPC
13C-1,2,3,4,6,8-HxCDF	9.72e6	0.51	NO	1.00	10.035	33.00	1.000	198	100	0.357	
Total Tetra-Dioxins				1.02	10.035			17.4		0.0445	17.4
Total Penta-Dioxins				0.96	10.035			19.8		0.0970	21.4
Total Hexa-Dioxins				0.89	10.035			99.2		0.198	99.2
Total Hepta-Dioxins				0.83	10.035			512		0.786	512
Total Tetra-Furans				0.74	10.035			262		0.0696	265
1st Func. Penta-Furans				0.94	10.035			42.5		0.0197	42.5
Total Penta-Furans				0.84	10.035			274		0.181	274
Total Hexa-Furans				0.87	10.035			391		0.231	391
Total Hepta-Furans				0.89	10.035			314		0.409	314
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											





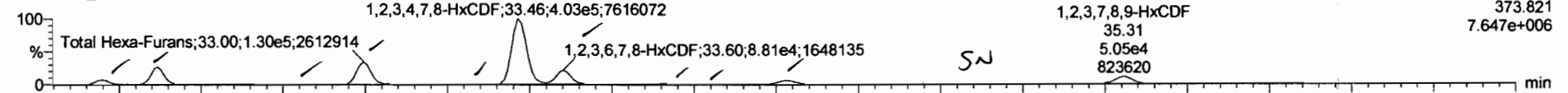
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Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

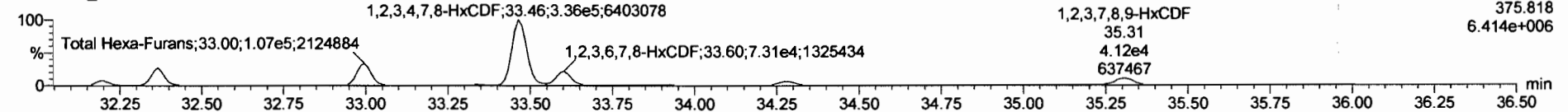
Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

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

200930R1\_14

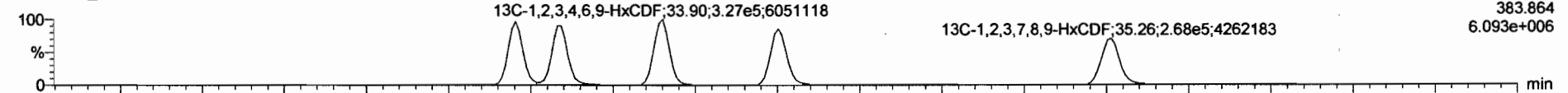


200930R1\_14

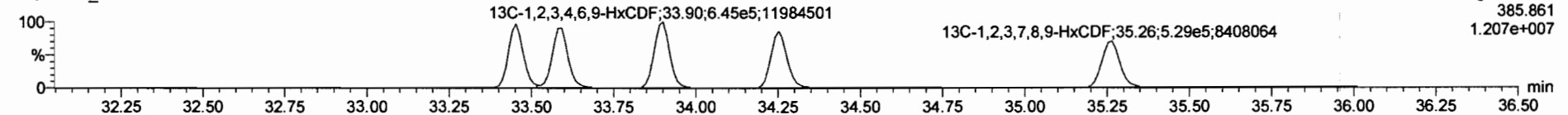


**13C-1,2,3,4,7,8-HxCDF**

200930R1\_14

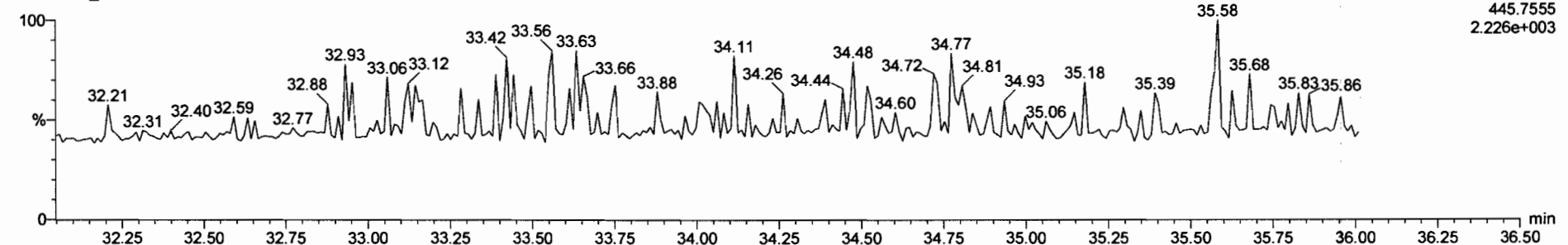


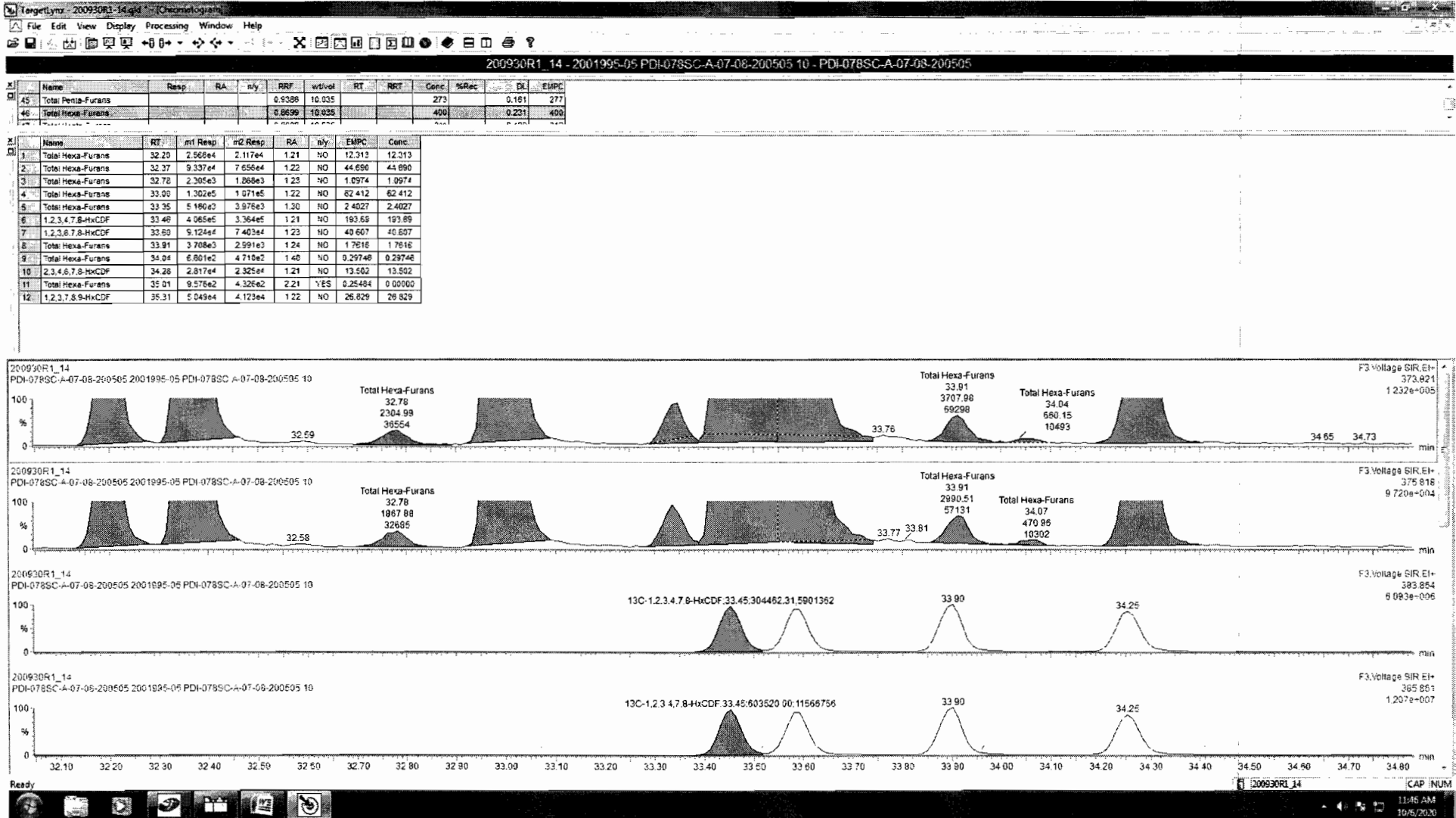
200930R1\_14

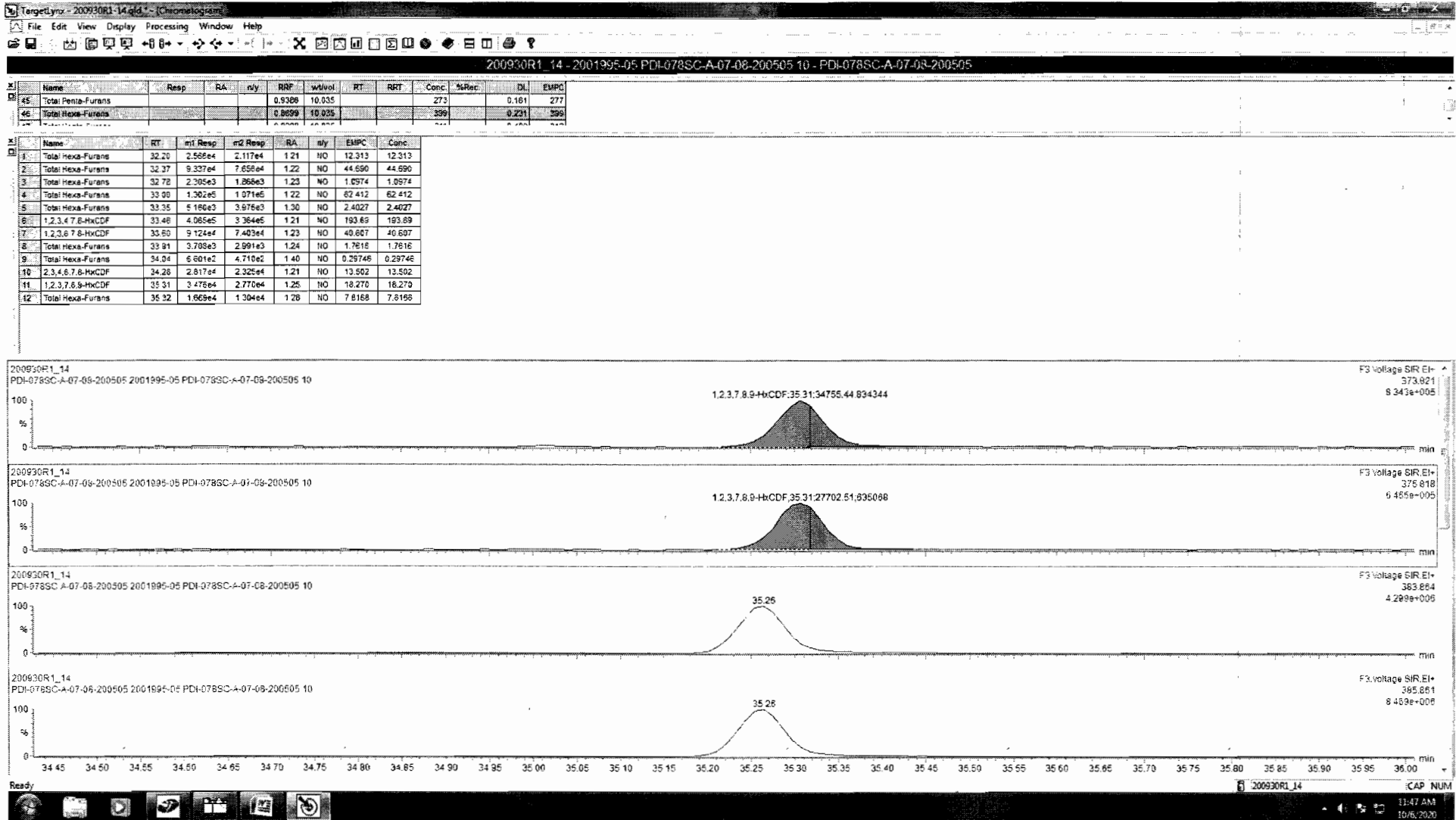


**DPE3**

200930R1\_14







Dataset: Untitled

Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

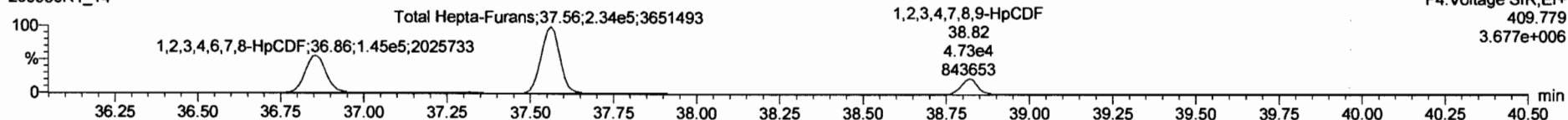
Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

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

200930R1\_14

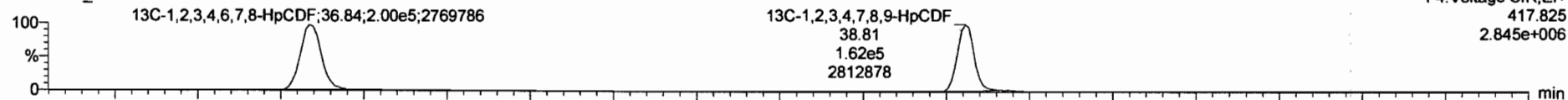


200930R1\_14

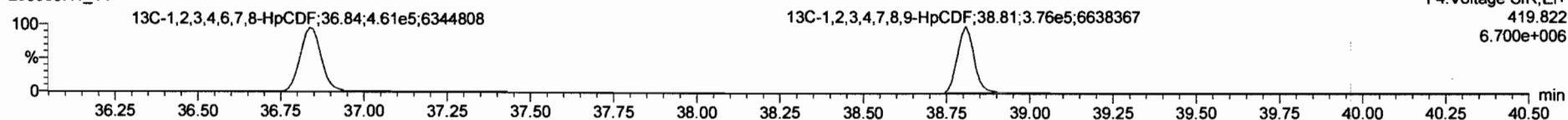


### 13C-1,2,3,4,6,7,8-HpCDF

200930R1\_14

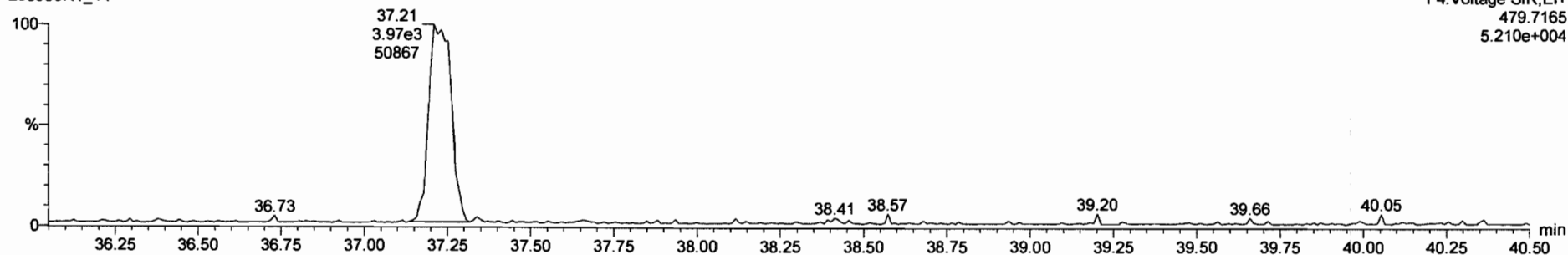


200930R1\_14

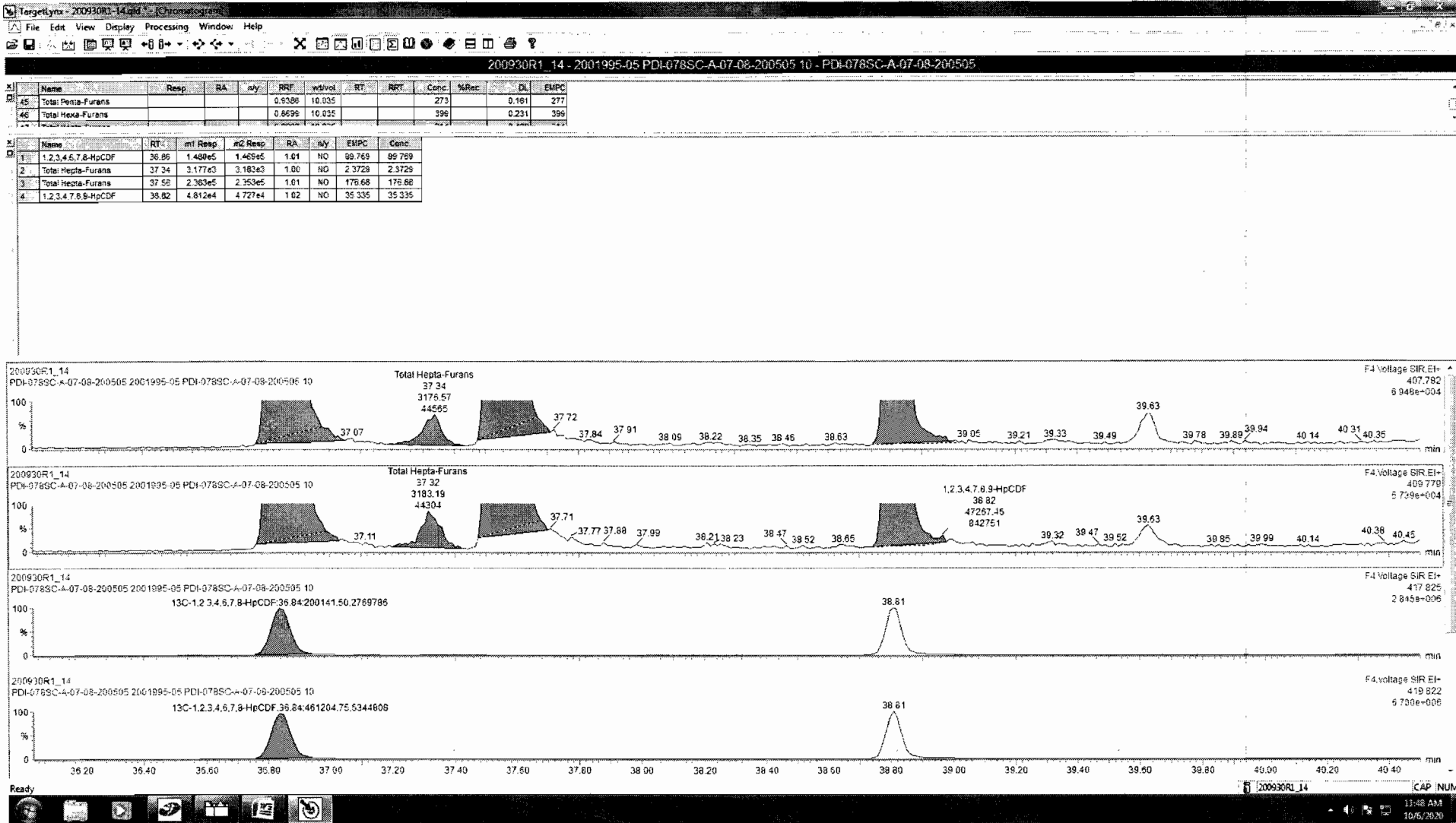


### DPE4

200930R1\_14







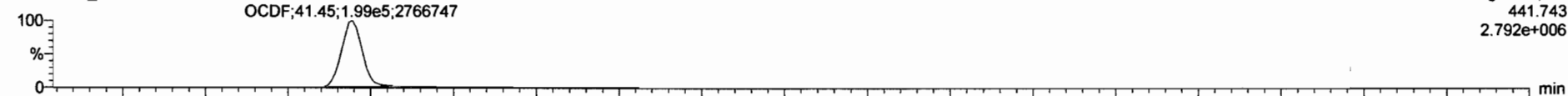
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Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

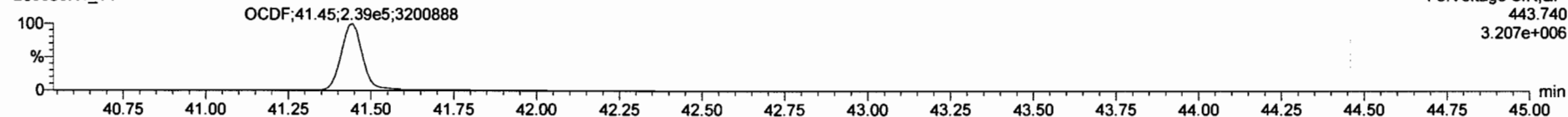
Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

**OCDF**

200930R1\_14

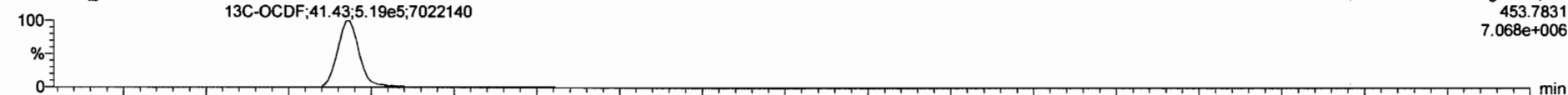


200930R1\_14

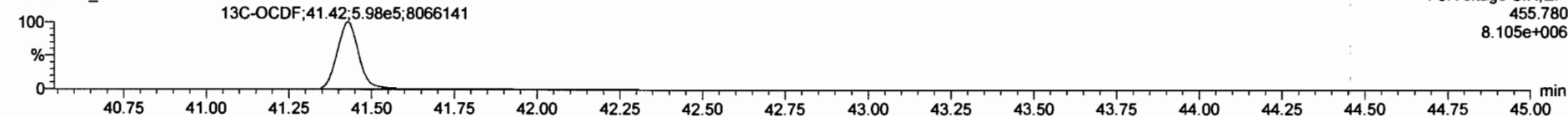


**13C-OCDF**

200930R1\_14

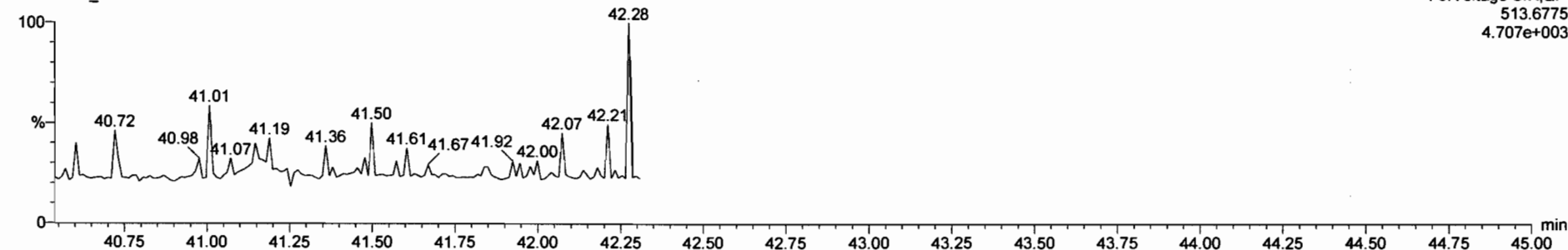


200930R1\_14



**DPE5**

200930R1\_14



Targetlyn - 200930R1\_14.gid - Chromatogram

File Edit View Display Processing Window Help

200930R1\_14 - 2001995-05 PDI-078SC-A-07-08-200505 10 - PDI-078SC-A-07-08-200505

Name	Resp	RA	n/y	RRF	ndVol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF	4.27e5	0.87	NO	0.7841	40.926	41.44	1.000	194	0.358	194

Name	RT	Int Resp	#2 Resp	RA	n/y	EMPC	Conc
1							

200930R1\_14  
PDI-078SC-A-07-08-200505 2001995-05 PDI-078SC-A-07-08-200505 10

OCDF 41.44.198575 31.2768747

Peak	RT	Int Resp	#2 Resp	RA	n/y	EMPC	Conc
1	41.44	441.743					2.792e+006

F5 Voltage SIR.EI+  
441.743  
2.792e+006

200930R1\_14  
PDI-078SC-A-07-08-200505 2001995-05 PDI-078SC-A-07-08-200505 10

OCDF 41.45.228353 95.3175292

Peak	RT	Int Resp	#2 Resp	RA	n/y	EMPC	Conc
1	41.45	443.740					3.207e+006

F5 Voltage SIR.EI+  
443.740  
3.207e+006

200930R1\_14  
PDI-078SC-A-07-08-200505 2001995-05 PDI-078SC-A-07-08-200505 10

13C-OCDF 41.44.518631.34.7022140

Peak	RT	Int Resp	#2 Resp	RA	n/y	EMPC	Conc
1	41.44	453.7831					7.088e+006

F5 Voltage SIR.EI+  
453.7831  
7.088e+006

200930R1\_14  
PDI-078SC-A-07-08-200505 2001995-05 PDI-078SC-A-07-08-200505 10

13C-OCDF 41.42.597659 89.8066141

Peak	RT	Int Resp	#2 Resp	RA	n/y	EMPC	Conc
1	41.42	455.780					8.109e+006

F5 Voltage SIR.EI+  
455.780  
8.109e+006

Ready

200930R1\_14 CAP NUM

3:23 PM 10/5/2020

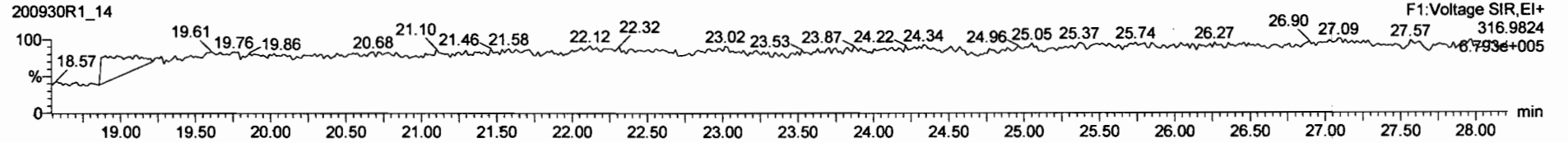
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Last Altered: Thursday, October 01, 2020 07:11:18 Pacific Daylight Time

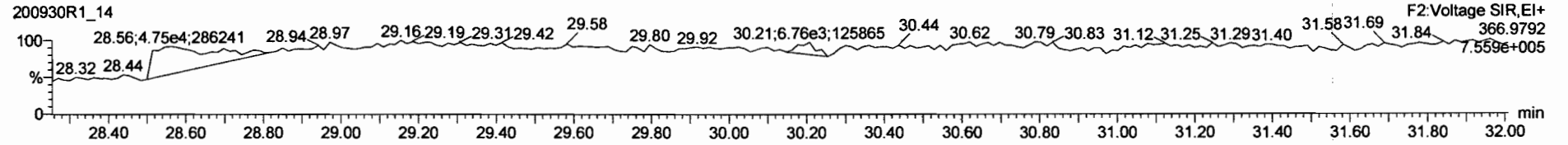
Printed: Thursday, October 01, 2020 07:18:20 Pacific Daylight Time

Name: 200930R1\_14, Date: 30-Sep-2020, Time: 19:39:18, ID: 2001995-05 PDI-078SC-A-07-08-200505 10, Description: PDI-078SC-A-07-08-200505

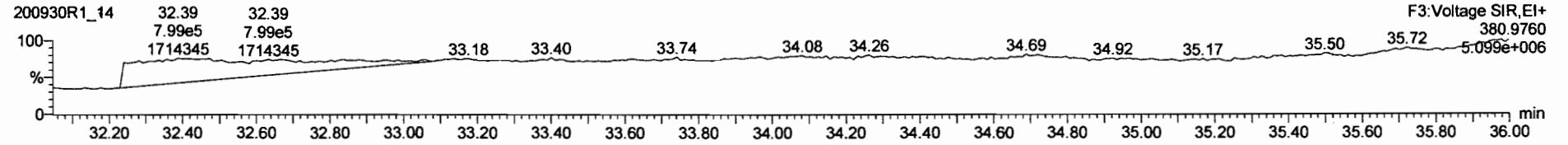
**PFK1**



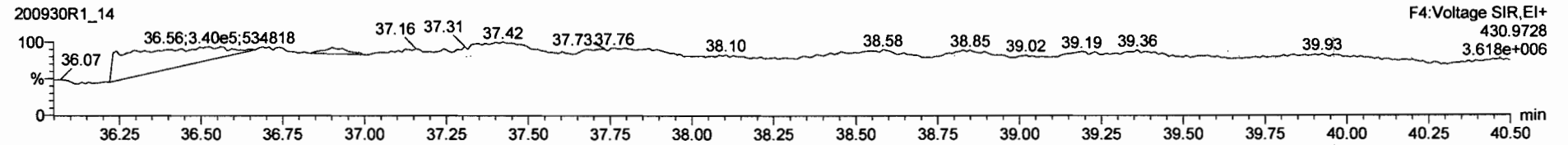
**PFK2**



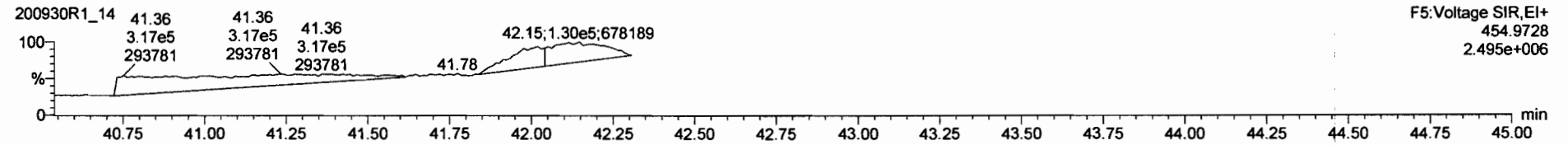
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200930R2\200930R2-5.qld

Last Altered: Thursday, October 22, 2020 12:14:23 Pacific Daylight Time

Printed: Thursday, October 22, 2020 12:18:08 Pacific Daylight Time

*dy 10-22-2020*

*mu 10/22/20*

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R2\_5, Date: 01-Oct-2020, Time: 00:53:50, ID: 2001995-06 PDI-171SC-A-01-02-200521 10, Description: PDI-171SC-A-01-02-200521

#	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	1.68e3	0.37	YES	1.02	10.028	26.448	26.43	1.001	1.001	0.29822		0.0372	0.186
2	2 1,2,3,7,8-PeCDD	1.67e3	0.76	YES	0.956	10.028	31.070	31.06	1.001	1.000	0.35869		0.0832	0.333
3	3 1,2,3,4,7,8-HxCDD	2.16e3	1.21	NO	1.00	10.028	34.358	34.37	1.000	1.001	0.58501		0.144	0.585
4	4 1,2,3,6,7,8-HxCDD	1.09e4	1.28	NO	0.888	10.028	34.465	34.48	1.000	1.000	2.9692		0.158	2.97
5	5 1,2,3,7,8,9-HxCDD	5.35e3	1.17	NO	0.909	10.028	34.753	34.75	1.000	1.000	1.3718		0.147	1.37
6	6 1,2,3,4,6,7,8-HpCDD	2.06e5	1.03	NO	0.832	10.028	38.200	38.21	1.000	1.001	71.504		0.425	71.5
7	7 OCDD	1.11e6	0.87	NO	0.862	10.028	41.136	41.16	1.000	1.001	482.27		0.582	482
8	8 2,3,7,8-TCDF	1.13e4	0.77	NO	0.735	10.028	25.756	25.77	1.000	1.001	2.2211		0.0729	2.22
9	9 1,2,3,7,8-PeCDF	1.89e4	1.53	NO	0.939	10.028	29.833	29.83	1.001	1.001	2.9883		0.0587	2.99
10	10 2,3,4,7,8-PeCDF	1.14e4	1.56	NO	1.05	10.028	30.880	30.88	1.001	1.001	1.6779		0.0542	1.68
11	11 1,2,3,4,7,8-HxCDF	2.45e4	1.22	NO	0.842	10.028	33.443	33.45	1.000	1.000	6.3719		0.0849	6.37
12	12 1,2,3,6,7,8-HxCDF	7.15e3	1.25	NO	0.894	10.028	33.581	33.59	1.000	1.001	1.7558		0.0824	1.76
13	13 2,3,4,6,7,8-HxCDF	4.17e3	1.34	NO	0.870	10.028	34.263	34.26	1.001	1.001	1.0664		0.0900	1.07
14	14 1,2,3,7,8,9-HxCDF	2.20e3	1.05	YES	0.855	10.028	35.264	35.29	1.001	1.001	0.64093		0.112	0.594
15	15 1,2,3,4,6,7,8-HpCDF	3.21e4	1.00	NO	0.891	10.028	36.874	36.85	1.001	1.000	10.520		0.181	10.5
16	16 1,2,3,4,7,8,9-HpCDF	4.47e3	0.98	NO	1.00	10.028	38.818	38.83	1.000	1.000	1.6562		0.172	1.66
17	17 OCDF	9.05e4	0.85	NO	0.784	10.028	41.434	41.44	1.000	1.000	41.319		0.244	41.3
18	18 13C-2,3,7,8-TCDD	1.10e6	0.78	NO	1.15	10.028	26.405	26.42	1.029	1.029	155.42	77.9	0.101	
19	19 13C-1,2,3,7,8-PeCDD	9.70e5	0.63	NO	0.887	10.028	30.994	31.05	1.207	1.210	177.26	88.9	0.151	
20	20 13C-1,2,3,4,7,8-HxCDD	7.35e5	1.28	NO	0.801	10.028	34.351	34.35	1.014	1.014	174.54	87.5	0.301	
21	21 13C-1,2,3,6,7,8-HxCDD	8.25e5	1.26	NO	0.892	10.028	34.480	34.47	1.018	1.017	175.93	88.2	0.270	
22	22 13C-1,2,3,7,8,9-HxCDD	8.55e5	1.25	NO	0.882	10.028	34.741	34.74	1.025	1.025	184.26	92.4	0.273	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.92e5	1.05	NO	0.719	10.028	38.173	38.19	1.127	1.127	183.01	91.8	0.487	
24	24 13C-OCDD	1.06e6	0.89	NO	0.563	10.028	41.100	41.14	1.213	1.214	359.36	90.1	0.567	
25	25 13C-2,3,7,8-TCDF	1.37e6	0.78	NO	1.01	10.028	25.748	25.74	1.003	1.003	153.07	76.7	0.170	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.59	NO	0.814	10.028	29.754	29.81	1.159	1.161	185.99	93.3	0.360	
27	27 13C-2,3,4,7,8-PeCDF	1.29e6	1.59	NO	0.768	10.028	30.791	30.85	1.200	1.202	188.50	94.5	0.382	
28	28 13C-1,2,3,4,7,8-HxCDF	9.10e5	0.51	NO	0.993	10.028	33.429	33.44	0.987	0.987	174.31	87.4	0.396	
29	29 13C-1,2,3,6,7,8-HxCDF	9.08e5	0.51	NO	0.990	10.028	33.572	33.57	0.991	0.991	174.44	87.5	0.397	
30	30 13C-2,3,4,6,7,8-HxCDF	8.97e5	0.51	NO	0.944	10.028	34.239	34.24	1.011	1.011	180.66	90.6	0.416	

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-5.qld

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Name: 200930R2\_5, Date: 01-Oct-2020, Time: 00:53:50, ID: 2001995-06 PDI-171SC-A-01-02-200521 10, Description: PDI-171SC-A-01-02-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	7.99e5	0.50	NO	0.842	10.028	35.256	35.24	1.041	1.040	180.65	90.6	0.467	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.84e5	0.43	NO	0.687	10.028	36.845	36.84	1.087	1.087	189.46	95.0	0.515	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.39e5	0.43	NO	0.555	10.028	38.793	38.82	1.145	1.146	184.72	92.6	0.638	
34	34 13C-OCDF	1.11e6	0.87	NO	0.608	10.028	41.381	41.43	1.221	1.223	348.33	87.3	0.643	
35	35 37Cl-2,3,7,8-TCDD	4.03e5			1.18	10.028	26.435	26.43	1.030	1.030	55.480	69.5	0.0326	
36	36 13C-1,2,3,4-TCDD	1.23e6	0.78	NO	1.00	10.028	25.740	25.67	1.000	1.000	199.45	100	0.116	
37	37 13C-1,2,3,4-TCDF	1.77e6	0.79	NO	1.00	10.028	24.310	24.22	1.000	1.000	199.45	100	0.172	
38	38 13C-1,2,3,4,6,9-HxCDF	1.05e6	0.51	NO	1.00	10.028	33.920	33.88	1.000	1.000	199.45	100	0.393	
39	39 Total Tetra-Dioxins				1.02	10.028	24.620		0.000		4.0082		0.0372	4.19
40	40 Total Penta-Dioxins				0.956	10.028	29.960		0.000		3.3252		0.0832	4.31
41	41 Total Hexa-Dioxins				0.888	10.028	33.635		0.000		24.964		0.157	25.0
42	42 Total Hepta-Dioxins				0.832	10.028	37.640		0.000		159.49		0.425	159
43	43 Total Tetra-Furans				0.735	10.028	23.610		0.000		9.4907		0.0729	9.92
44	44 1st Func. Penta-Furans				0.939	10.028	27.230		0.000		3.6857		0.0191	3.69
45	45 Total Penta-Furans				0.939	10.028	29.275		0.000		9.4281		0.0597	9.80
46	46 Total Hexa-Furans				0.870	10.028	33.555		0.000		28.380		0.0912	29.5
47	47 Total Hepta-Furans				0.891	10.028	37.835		0.000		52.657		0.186	52.9

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-5.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R2\_5, Date: 01-Oct-2020, Time: 00:53:50, ID: 2001995-06 PDI-171SC-A-01-02-200521 10, Description: PDI-171SC-A-01-02-200521

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.73	1.431e4	2.166e4	1.283e3	1.733e3	0.74	NO	3.016e3	0.53581	0.53581	0.0372
2	Total Tetra-Dioxins	23.06	8.438e3	1.051e4	7.027e2	8.861e2	0.79	NO	1.589e3	0.28229	0.28229	0.0372
3	Total Tetra-Dioxins	23.59	4.425e3	6.985e3	3.172e2	4.382e2	0.72	NO	7.554e2	0.13421	0.13421	0.0372
4	Total Tetra-Dioxins	24.41	9.296e3	9.217e3	5.941e2	7.250e2	0.82	NO	1.319e3	0.23436	0.23436	0.0372
5	Total Tetra-Dioxins	24.60	5.436e3	6.271e3	3.908e2	5.247e2	0.74	NO	9.155e2	0.16266	0.16266	0.0372
6	Total Tetra-Dioxins	24.86	6.183e3	7.386e3	3.967e2	4.695e2	0.85	NO	8.662e2	0.15390	0.15390	0.0372
7	Total Tetra-Dioxins	26.16	9.599e4	1.251e5	5.895e3	7.713e3	0.76	NO	1.361e4	2.4179	2.4179	0.0372
8	2,3,7,8-TCDD	26.43	8.419e3	1.886e4	4.565e2	1.222e3	0.37	YES	1.678e3	0.00000	0.18646	0.0372
9	Total Tetra-Dioxins	26.75	6.619e3	5.205e3	2.139e2	2.763e2	0.77	NO	4.902e2	0.087091	0.087091	0.0372

**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	3.449e4	5.257e4	2.450e3	4.196e3	0.58	NO	6.646e3	1.4293	1.4293	0.0832
2	Total Penta-Dioxins	29.31	1.336e4	2.054e4	6.932e2	1.119e3	0.62	NO	1.812e3	0.38968	0.38968	0.0832
3	Total Penta-Dioxins	29.81	1.582e4	2.382e4	7.784e2	1.129e3	0.69	NO	1.908e3	0.41028	0.41028	0.0832
4	Total Penta-Dioxins	30.00	1.723e4	2.393e4	6.847e2	1.159e3	0.59	NO	0.000e0	0.00000	0.39661	0.0832
5	Total Penta-Dioxins	30.04	1.008e4	1.732e4	5.401e2	7.925e2	0.68	NO	1.333e3	0.28662	0.28662	0.0832
6	Total Penta-Dioxins	30.30	1.629e4	2.289e4	1.109e3	1.939e3	0.57	NO	3.048e3	0.65558	0.65558	0.0832
7	Total Penta-Dioxins	30.62	3.394e3	7.588e3	2.493e2	4.654e2	0.54	NO	7.147e2	0.15373	0.15373	0.0832
8	1,2,3,7,8-PeCDD	31.06	1.658e4	1.991e4	7.188e2	9.489e2	0.76	YES	1.668e3	0.00000	0.33267	0.0832
9	Total Penta-Dioxins	31.11	3.916e3	6.898e3	1.851e2	3.574e2	0.52	YES	0.000e0	0.00000	0.10298	0.0832
10	Total Penta-Dioxins	31.40	3.932e3	8.900e3	2.678e2	5.139e2	0.52	YES	0.000e0	0.00000	0.14902	0.0832

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-5.qld

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**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	3.222e5	2.627e5	1.663e4	1.346e4	1.24	NO	3.009e4	8.3935	8.3935	0.157
2	Total Hexa-Dioxins	33.31	5.089e4	3.385e4	2.450e3	1.853e3	1.32	NO	4.303e3	1.2005	1.2005	0.157
3	Total Hexa-Dioxins	33.61	2.663e5	2.130e5	1.861e4	1.473e4	1.26	NO	3.334e4	9.3017	9.3017	0.157
4	Total Hexa-Dioxins	33.70	2.412e4	2.010e4	1.255e3	9.963e2	1.26	NO	2.251e3	0.62793	0.62793	0.157
5	1,2,3,4,7,8-HxCDD	34.37	2.017e4	1.690e4	1.182e3	9.792e2	1.21	NO	2.161e3	0.58501	0.58501	0.144
6	1,2,3,6,7,8-HxCDD	34.48	9.725e4	7.837e4	6.125e3	4.783e3	1.28	NO	1.091e4	2.9692	2.9692	0.158
7	Total Hexa-Dioxins	34.65	1.479e4	1.351e4	1.041e3	8.041e2	1.29	NO	1.845e3	0.51468	0.51468	0.157
8	1,2,3,7,8,9-HxCDD	34.75	4.437e4	3.793e4	2.886e3	2.461e3	1.17	NO	5.347e3	1.3718	1.3718	0.147

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.23	1.702e6	1.693e6	1.278e5	1.261e5	1.01	NO	2.539e5	87.990	87.990	0.425
2	1,2,3,4,6,7,8-HpCDD	38.21	1.715e6	1.654e6	1.045e5	1.018e5	1.03	NO	2.063e5	71.504	71.504	0.425



Dataset: U:\VG12.PRO\Results\200930R2\200930R2-5.qld

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Name: 200930R2\_5, Date: 01-Oct-2020, Time: 00:53:50, ID: 2001995-06 PDI-171SC-A-01-02-200521 10, Description: PDI-171SC-A-01-02-200521

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.50	6.140e3	6.118e3	3.849e2	5.450e2	0.71	NO	9.299e2	0.18355	0.18355	0.0729
2	Total Tetra-Furans	21.09	5.474e3	6.965e3	4.539e2	5.808e2	0.78	NO	1.035e3	0.20424	0.20424	0.0729
3	Total Tetra-Furans	21.88	3.260e4	4.126e4	2.903e3	3.697e3	0.79	NO	6.600e3	1.3027	1.3027	0.0729
4	Total Tetra-Furans	22.36	6.319e3	7.695e3	4.463e2	6.793e2	0.66	NO	1.126e3	0.22220	0.22220	0.0729
5	Total Tetra-Furans	22.78	2.043e4	2.765e4	1.970e3	2.396e3	0.82	NO	4.366e3	0.86183	0.86183	0.0729
6	Total Tetra-Furans	23.23	1.416e4	2.327e4	1.241e3	1.694e3	0.73	NO	2.935e3	0.57935	0.57935	0.0729
7	Total Tetra-Furans	23.36	4.795e3	8.308e3	3.919e2	5.504e2	0.71	NO	9.423e2	0.18599	0.18599	0.0729
8	Total Tetra-Furans	23.57	8.635e3	1.132e4	6.437e2	9.004e2	0.71	NO	1.544e3	0.30480	0.30480	0.0729
9	Total Tetra-Furans	24.10	5.706e3	7.985e3	3.753e2	4.803e2	0.78	NO	8.556e2	0.16889	0.16889	0.0729
10	Total Tetra-Furans	24.34	1.398e4	2.166e4	1.763e3	2.372e3	0.74	NO	4.135e3	0.81611	0.81611	0.0729
11	Total Tetra-Furans	24.77	4.699e4	7.497e4	3.518e3	4.628e3	0.76	NO	8.145e3	1.6078	1.6078	0.0729
12	Total Tetra-Furans	25.08	5.653e3	6.459e3	3.038e2	4.049e2	0.75	NO	7.087e2	0.13988	0.13988	0.0729
13	Total Tetra-Furans	25.49	3.906e3	4.292e3	2.461e2	3.236e2	0.76	NO	5.697e2	0.11246	0.11246	0.0729
14	Total Tetra-Furans	25.65	9.604e3	1.404e4	6.384e2	1.006e3	0.63	YES	0.000e0	0.00000	0.28967	0.0729
15	2,3,7,8-TCDF	25.77	7.293e4	1.009e5	4.890e3	6.363e3	0.77	NO	1.125e4	2.2211	2.2211	0.0729
16	Total Tetra-Furans	26.06	1.008e4	1.571e4	9.301e2	1.244e3	0.75	NO	2.174e3	0.42908	0.42908	0.0729
17	Total Tetra-Furans	27.24	5.830e3	6.727e3	3.701e2	3.881e2	0.95	YES	0.000e0	0.00000	0.13561	0.0729
18	Total Tetra-Furans	27.61	6.173e3	8.462e3	3.259e2	4.372e2	0.75	NO	7.631e2	0.15063	0.15063	0.0729

**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	27.24	2.353e5	1.436e5	1.413e4	8.716e3	1.62	NO	2.284e4	3.6857	3.6857	0.0191

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-5.qld

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Name: 200930R2\_5, Date: 01-Oct-2020, Time: 00:53:50, ID: 2001995-06 PDI-171SC-A-01-02-200521 10, Description: PDI-171SC-A-01-02-200521

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.67	1.893e4	1.300e4	1.529e3	1.027e3	1.49	NO	2.556e3	0.41239	0.41239	0.0597
2	Total Penta-Furans	28.85	1.589e5	1.006e5	1.001e4	6.330e3	1.58	NO	1.634e4	2.6362	2.6362	0.0597
3	Total Penta-Furans	29.49	3.676e4	2.930e4	2.160e3	1.555e3	1.39	NO	3.715e3	0.59943	0.59943	0.0597
4	Total Penta-Furans	29.63	2.786e4	1.712e4	1.122e3	5.955e2	1.88	YES	0.000e0	0.00000	0.24502	0.0597
5	1,2,3,7,8-PeCDF	29.83	2.358e5	1.430e5	1.146e4	7.474e3	1.53	NO	1.894e4	2.9883	2.9883	0.0587
6	Total Penta-Furans	30.07	7.445e4	4.950e4	3.684e3	2.468e3	1.49	NO	6.152e3	0.99275	0.99275	0.0597
7	Total Penta-Furans	30.68	9.348e3	8.457e3	4.596e2	3.777e2	1.22	YES	0.000e0	0.00000	0.12201	0.0597
8	2,3,4,7,8-PeCDF	30.88	1.324e5	7.661e4	6.933e3	4.432e3	1.56	NO	1.137e4	1.6779	1.6779	0.0542
9	Total Penta-Furans	31.76	6.161e3	4.229e3	4.677e2	2.830e2	1.65	NO	7.507e2	0.12114	0.12114	0.0597

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.19	7.894e4	7.531e4	3.903e3	3.432e3	1.14	NO	7.336e3	1.9142	1.9142	0.0912
2	Total Hexa-Furans	32.36	2.599e5	2.309e5	1.312e4	1.057e4	1.24	NO	2.369e4	6.1820	6.1820	0.0912
3	Total Hexa-Furans	32.76	7.003e3	6.648e3	3.280e2	3.209e2	1.02	YES	0.000e0	0.00000	0.15464	0.0912
4	Total Hexa-Furans	32.99	4.634e5	3.910e5	2.282e4	1.883e4	1.21	NO	4.166e4	10.870	10.870	0.0912
5	Total Hexa-Furans	33.33	9.537e3	7.882e3	4.687e2	3.713e2	1.26	NO	8.400e2	0.21920	0.21920	0.0912
6	1,2,3,4,7,8-HxCDF	33.45	2.679e5	2.144e5	1.346e4	1.101e4	1.22	NO	2.447e4	6.3719	6.3719	0.0849
7	1,2,3,6,7,8-HxCDF	33.59	7.287e4	5.838e4	3.973e3	3.172e3	1.25	NO	7.145e3	1.7558	1.7558	0.0824
8	2,3,4,6,7,8-HxCDF	34.26	3.645e4	2.825e4	2.387e3	1.785e3	1.34	NO	4.172e3	1.0664	1.0664	0.0900
9	1,2,3,7,8,9-HxCDF	35.29	2.485e4	2.765e4	1.127e3	1.070e3	1.05	YES	2.197e3	0.00000	0.59373	0.112
10	Total Hexa-Furans	35.31	2.565e4	1.938e4	8.053e2	5.713e2	1.41	NO	0.000e0	0.00000	0.35923	0.0912

**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	36.85	2.264e5	2.215e5	1.608e4	1.606e4	1.00	NO	3.214e4	10.520	10.520	0.181
2	Total Hepta-Furans	37.32	6.024e3	4.373e3	5.161e2	3.467e2	1.49	YES	0.000e0	0.00000	0.25903	0.186
3	Total Hepta-Furans	37.56	8.256e5	8.362e5	5.550e4	5.503e4	1.01	NO	1.105e5	40.481	40.481	0.186
4	1,2,3,4,7,8,9-HpCDF	38.83	3.705e4	3.919e4	2.218e3	2.255e3	0.98	NO	4.473e3	1.6562	1.6562	0.172

Dataset: Untitled

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Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

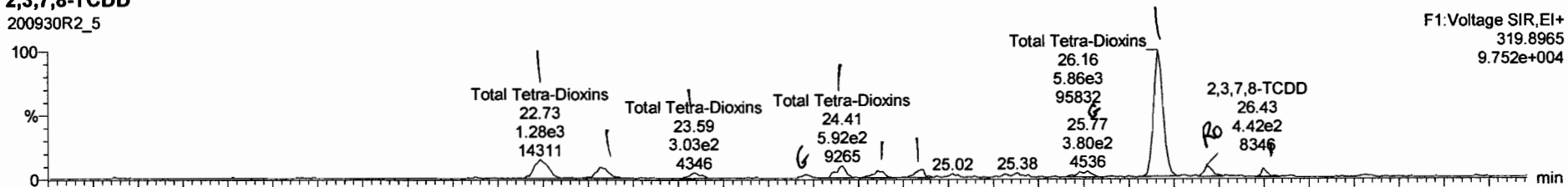
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Name: 200930R2\_5, Date: 01-Oct-2020, Time: 00:53:50, ID: 2001995-06 PDI-171SC-A-01-02-200521 10, Description: PDI-171SC-A-01-02-200521

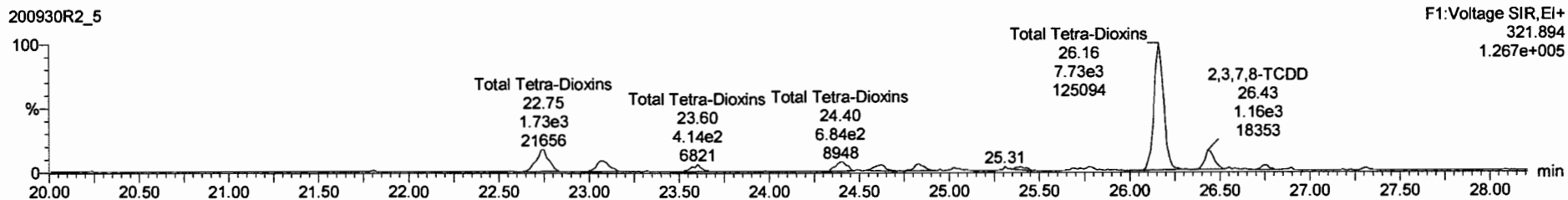
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200930R2\_5



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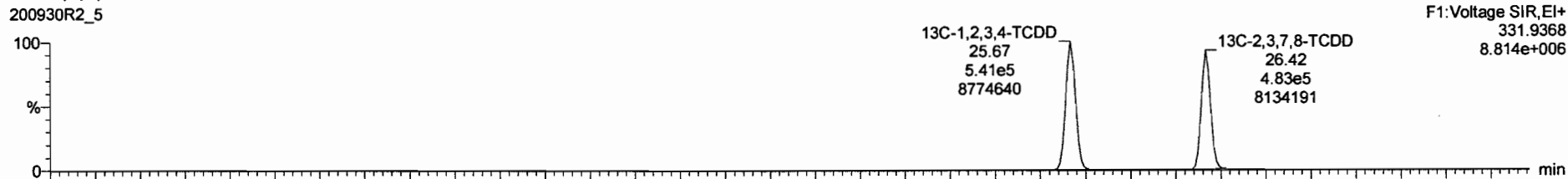
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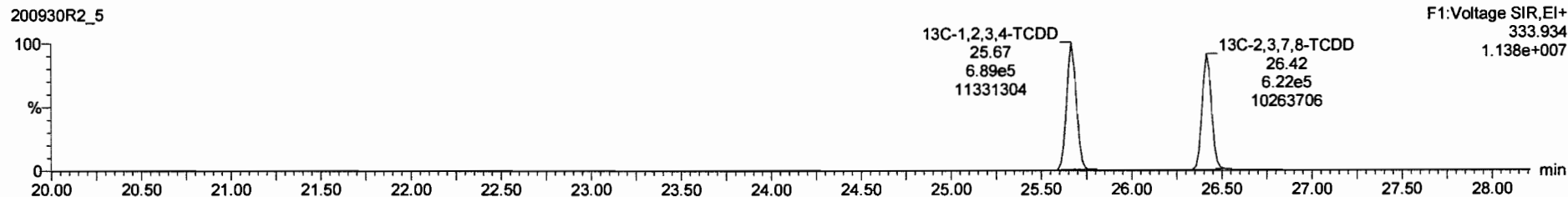
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200930R2\_5



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200930R2\_5



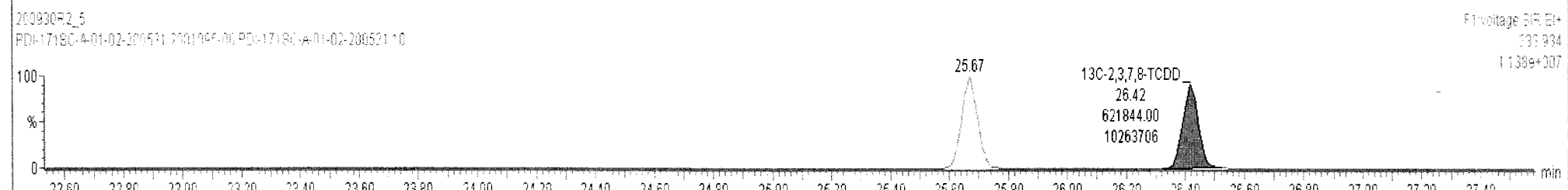
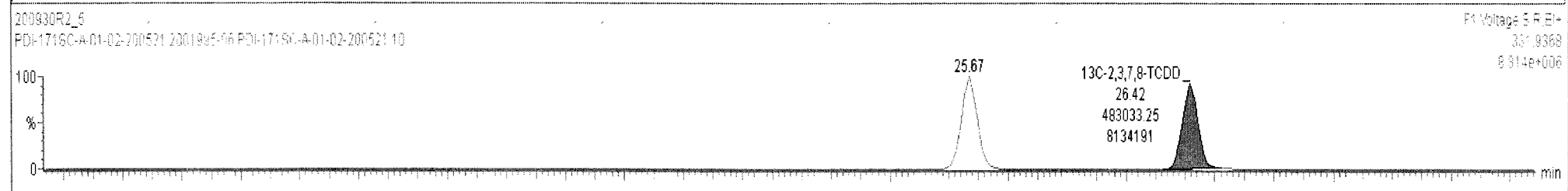
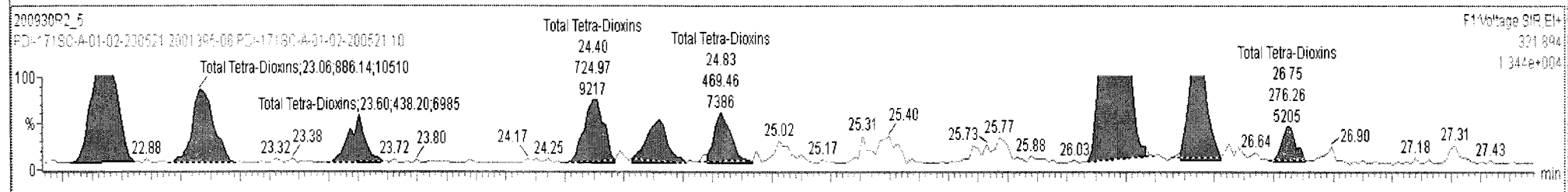
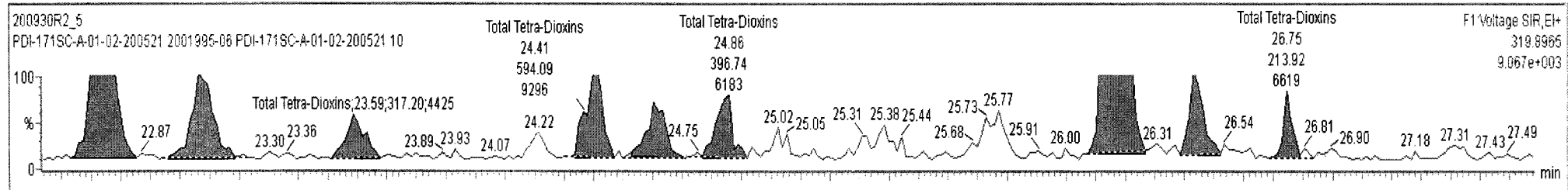
F1:Voltage SIR,EI+  
333.934  
1.138e+007



200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	ISF	RA	YN	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SVM	Cal File
39 Total Tetra-Dioxins	4.00823	0.0372		4.19469		1.016	39						01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...
40 Total Penta-Dioxins	2.48247	0.0835		3.94308		0.956	40						01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...
41 Total Hexa-Dioxins	24.8078	0.157		24.9941		0.888	41						01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Tetra-Dioxins	22.73	1.431e4	2.166e4	1.283e3	1.733e3	0.74	NO	3.016e3	0.536	0.536
2 Total Tetra-Dioxins	23.06	8.438e3	1.051e4	7.027e2	8.861e2	0.79	NO	1.589e3	0.262	0.262
3 Total Tetra-Dioxins	23.59	4.425e3	6.985e3	3.172e2	4.382e2	0.72	NO	7.554e2	0.134	0.134
4 Total Tetra-Dioxins	24.41	9.296e3	9.217e3	5.941e2	7.250e2	0.82	NO	1.319e3	0.234	0.234



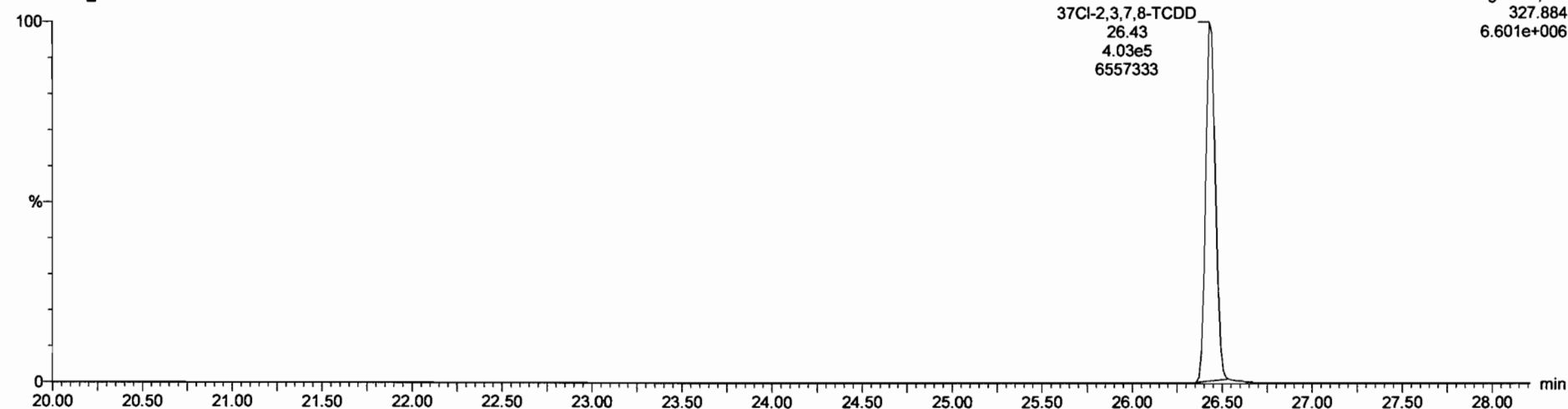
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Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

Name: 200930R2\_5, Date: 01-Oct-2020, Time: 00:53:50, ID: 2001995-06 PDI-171SC-A-01-02-200521 10, Description: PDI-171SC-A-01-02-200521

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

200930R2\_5

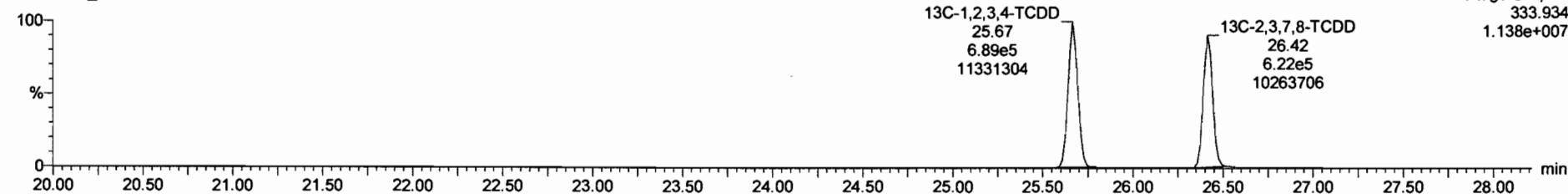


**13C-1,2,3,4-TCDD**

200930R2\_5



200930R2\_5



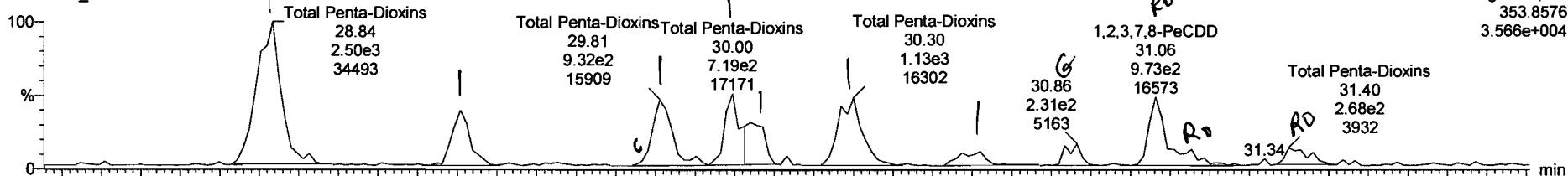
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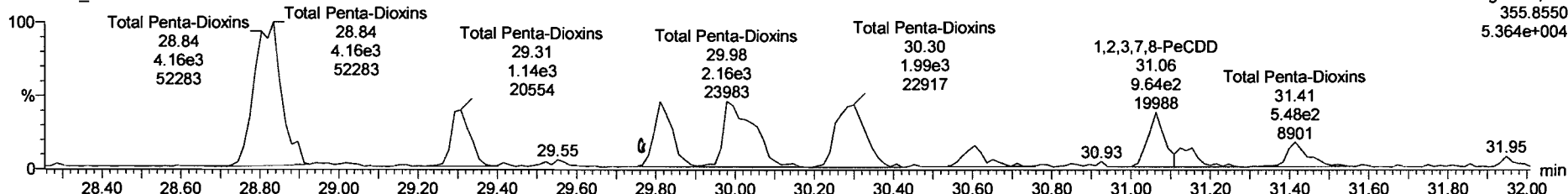
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1,2,3,7,8-PeCDD

200930R2\_5



200930R2\_5

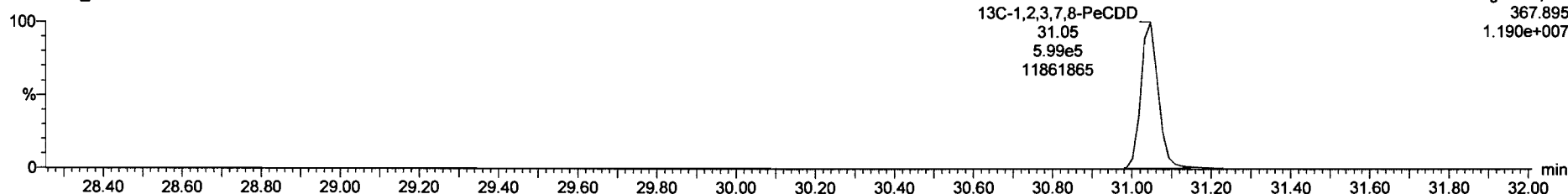


13C-1,2,3,7,8-PeCDD

200930R2\_5



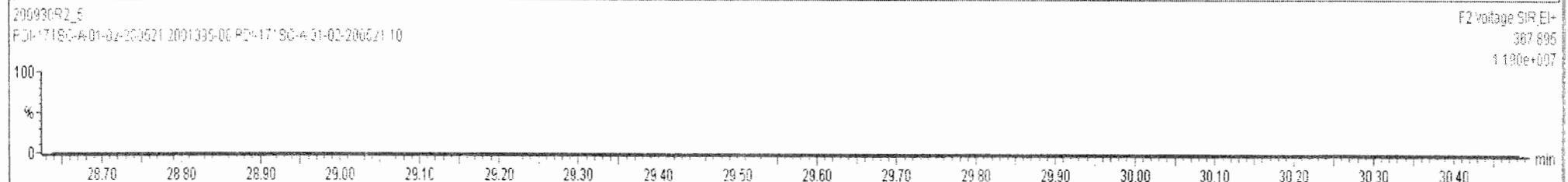
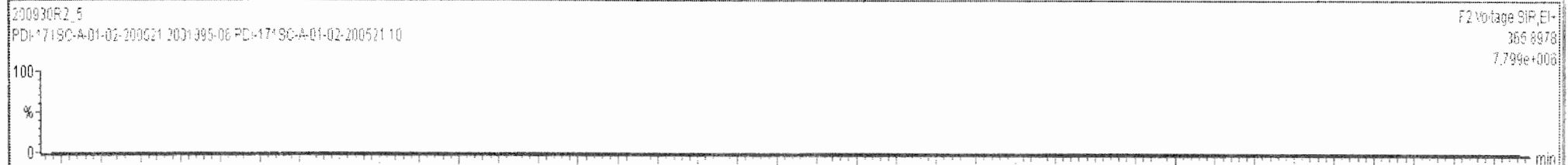
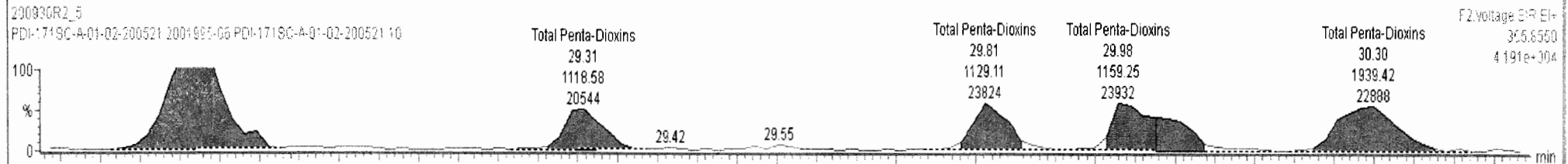
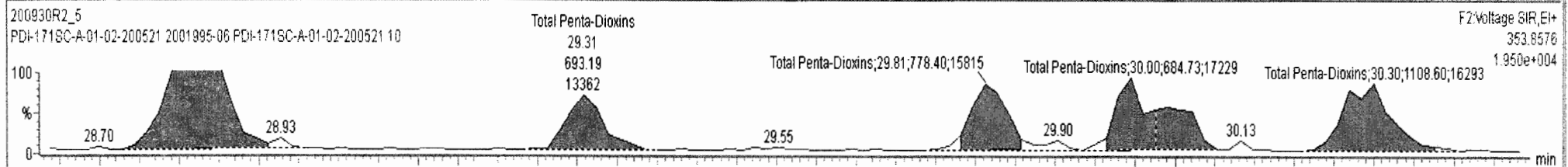
200930R2\_5



200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	S/M	Cal.File
39 Total Tetra-Dioxins	4.00823	0.0372		4.19469		1.016	39						01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...
40 Total Penta-Dioxins	3.32522	0.0832		4.31091		0.956	40						01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...
41 Total Hexa-Dioxins	24.80781	0.1571		24.99411		0.888	41						01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Penta-Dioxins	28.84	3.449e4	5.257e4	2.450e3	4.196e3	0.58	NO	6.646e3	1.43	1.43
2 Total Penta-Dioxins	29.31	1.336e4	2.054e4	6.932e2	1.119e3	0.62	NO	1.812e3	0.390	0.390
3 Total Penta-Dioxins	29.81	1.582e4	2.382e4	7.784e2	1.129e3	0.69	NO	1.908e3	0.410	0.410
4 Total Penta-Dioxins	30.00	1.723e4	2.393e4	6.847e2	1.159e3	0.59	NO	0.000e0	0.000	0.397
5 Total Penta-Dioxins	30.04	1.008e4	1.732e4	5.401e2	7.925e2	0.68	NO	1.333e3	0.287	0.287
6 Total Penta-Dioxins	30.30	1.629e4	2.289e4	1.109e3	1.939e3	0.57	NO	3.048e3	0.656	0.656

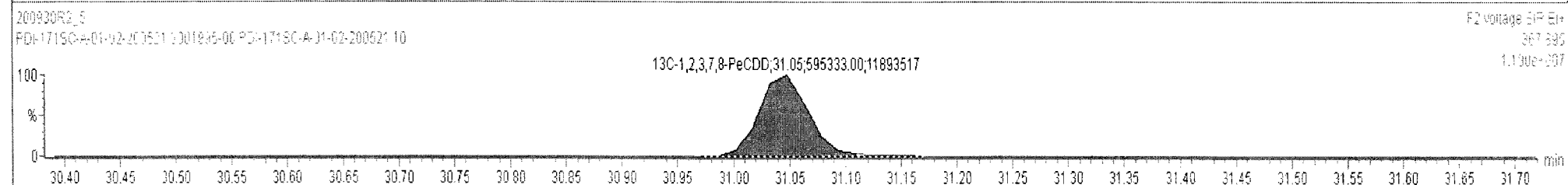
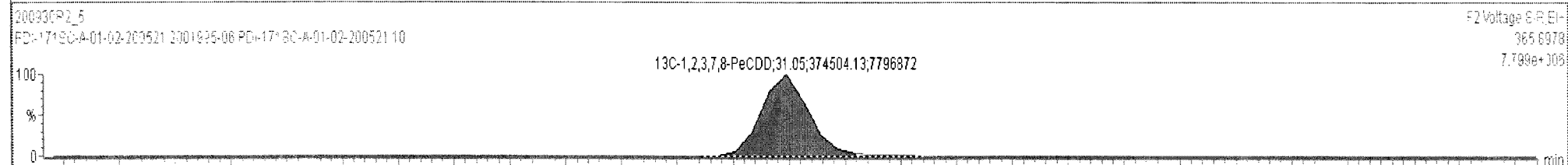
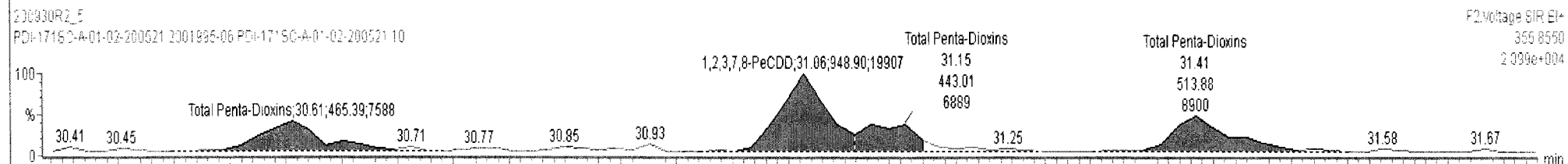
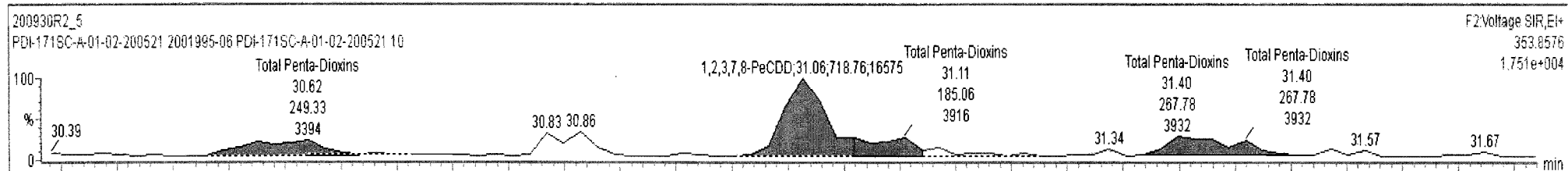




200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	YN	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	S/M	Cal.File
39 Total Tetra-Dioxins	4.00823	0.0372		4.19469		1.016	39						01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...
40 Total Penta-Dioxins	3.32522	0.0832		4.30651		0.956	40						01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...
41 Total Hexa-Dioxins	24.8078	0.157		24.9941		0.888	41						01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
6 Total Penta-Dioxins	30.30	1.629e4	2.289e4	1.109e3	1.939e3	0.57	NO	3.040e3	0.656	0.656
7 Total Penta-Dioxins	30.62	3.394e3	7.588e3	2.493e2	4.654e2	0.54	NO	7.147e2	0.154	0.154
8 1,2,3,7,8-PeCDD	31.06	1.658e4	1.991e4	7.188e2	9.489e2	0.76	YES	1.668e3	0.000	0.333
9 Total Penta-Dioxins	31.11	3.916e3	6.889e3	1.851e2	4.430e2	0.42	YES	0.000e0	0.000	0.103
10 Total Penta-Dioxins	31.40	3.932e3	8.900e3	2.678e2	5.139e2	0.52	YES	0.000e0	0.000	0.149

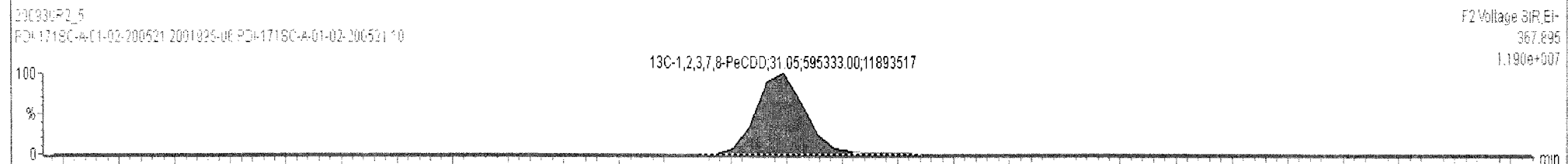
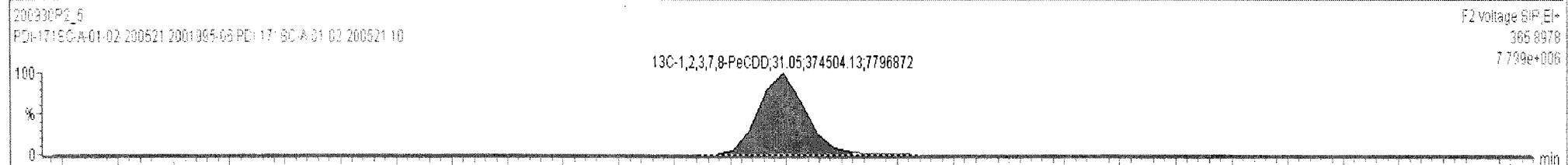
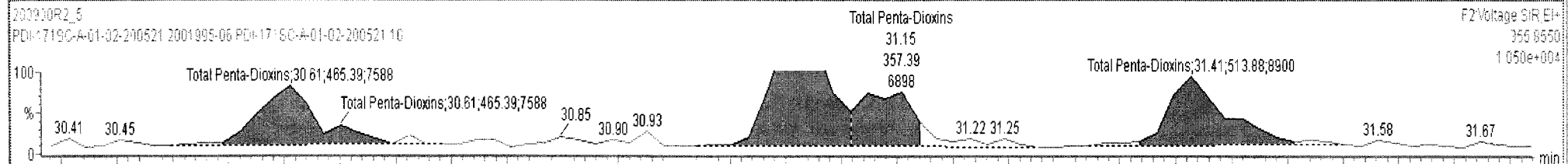
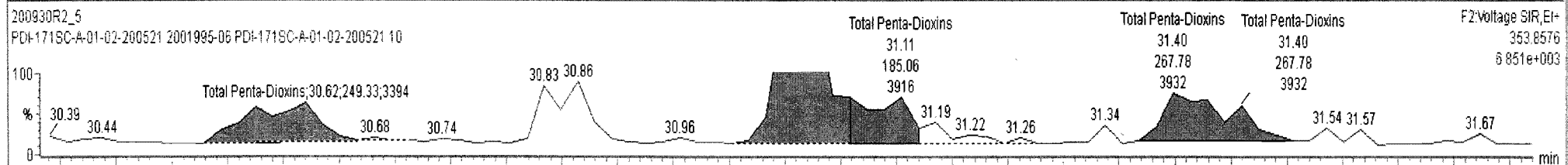




200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS	RA	YN	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	S/M	Cal File
39 Total Tetra-Dioxins	4.00823	0.0372		4.19469		1.016		39					01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...
40 Total Penta-Dioxins	3.32522	0.0832		4.30651		0.956		40					01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...
41 Total Hexa-Dioxins	24.8078	0.157		24.9941		0.888		41					01-Oct-20	00:53:50		2001995-06...	PDI-171SC-A-01...	0.0	10.0	dbDIO...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1 Total Penta-Dioxins	28.84	3.449e4	5.257e4	2.450e3	4.196e3	0.58	NO	6.646e3	1.43	1.43
2 Total Penta-Dioxins	29.31	1.336e4	2.054e4	6.932e2	1.119e3	0.62	NO	1.812e3	0.390	0.390
3 Total Penta-Dioxins	29.81	1.582e4	2.382e4	7.784e2	1.129e3	0.69	NO	1.908e3	0.410	0.410
4 Total Penta-Dioxins	30.00	1.723e4	2.393e4	6.847e2	1.159e3	0.59	NO	0.000e0	0.000	0.397
5 Total Penta-Dioxins	30.04	1.008e4	1.732e4	5.401e2	7.925e2	0.68	NO	1.333e3	0.287	0.287
6 Total Penta-Dioxins	30.30	1.629e4	2.289e4	1.109e3	1.939e3	0.57	NO	3.048e3	0.656	0.656

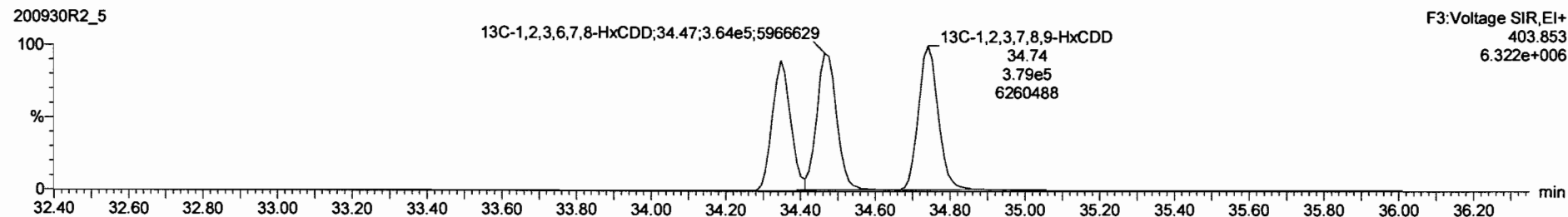
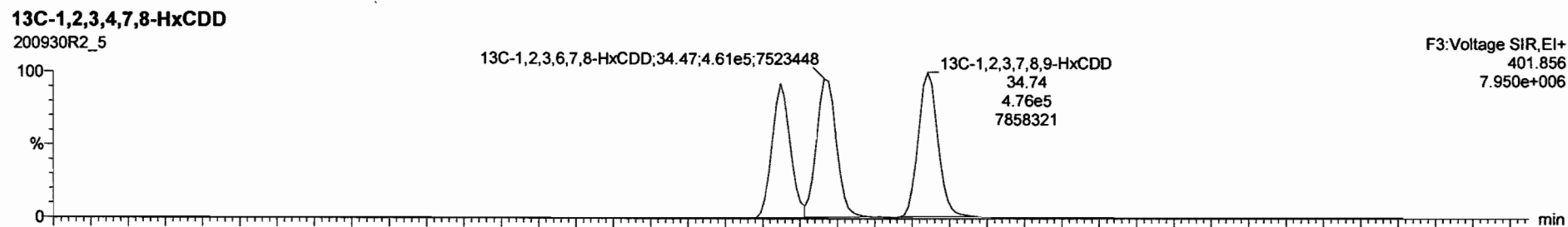
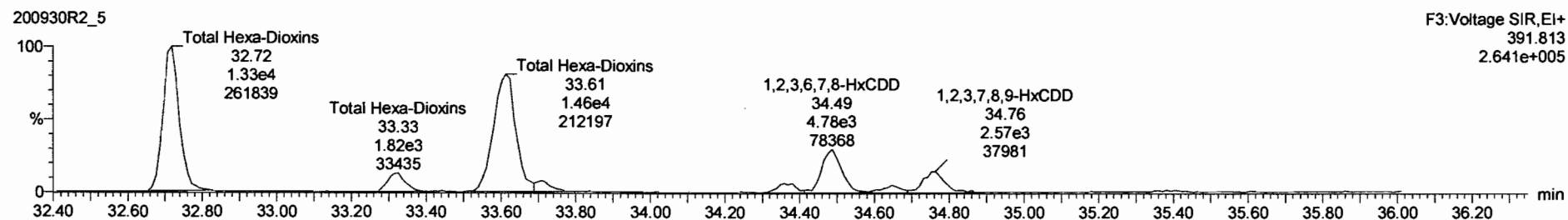
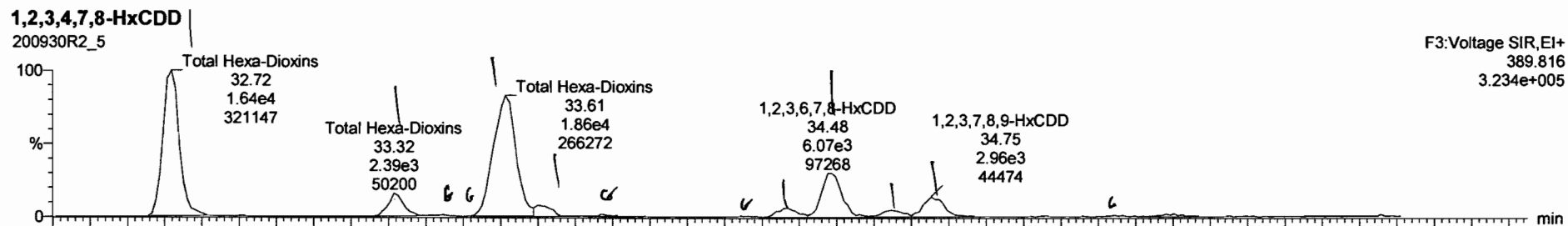


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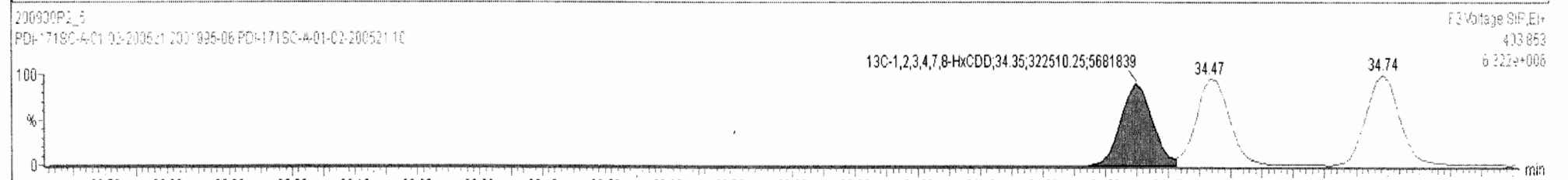
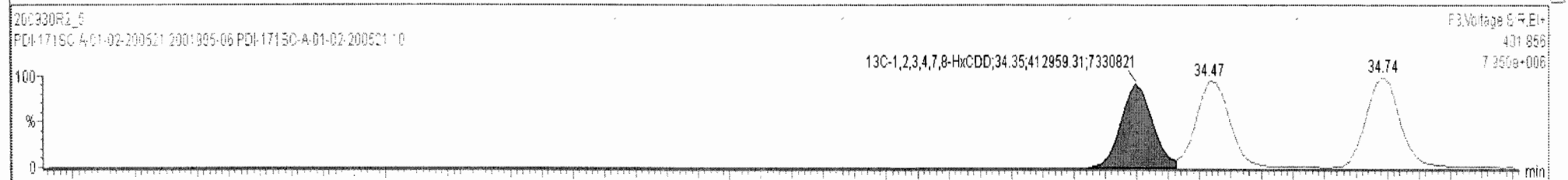
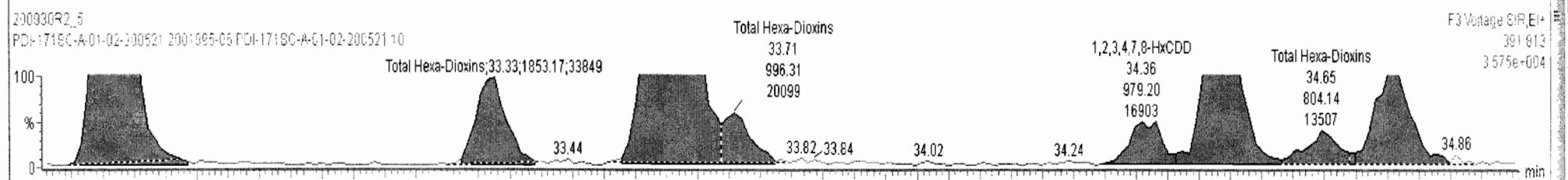
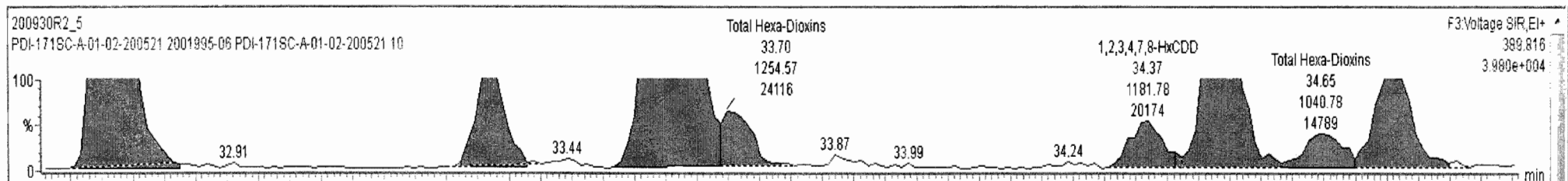
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200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtAvl	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.8879	10.028			25.0		0.157	25.0
42 Total Hepta-Dioxins				0.8316	10.028			159		0.425	159
43 Total Tetra-Furans				0.7353	10.028			8.71		0.0729	10.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.72	1.663e4	1.346e4	1.24	NO	8.3935	8.3935
2 Total Hexa-Dioxins	33.32	2.450e3	1.853e3	1.32	NO	1.2005	1.2005
3 Total Hexa-Dioxins	33.61	1.861e4	1.473e4	1.26	NO	9.3017	9.3017
4 Total Hexa-Dioxins	33.70	1.255e3	9.963e2	1.26	NO	0.62793	0.62793



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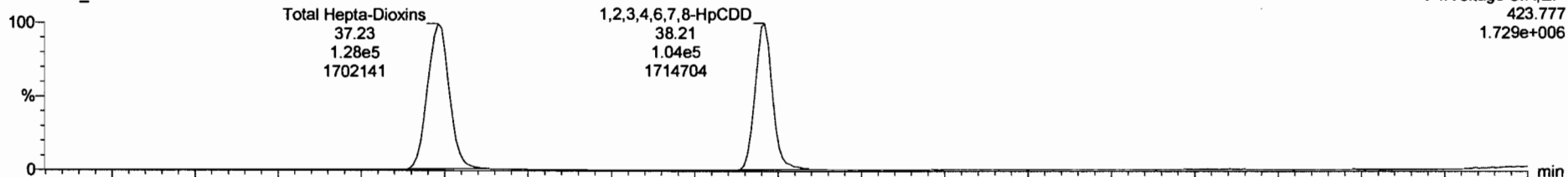
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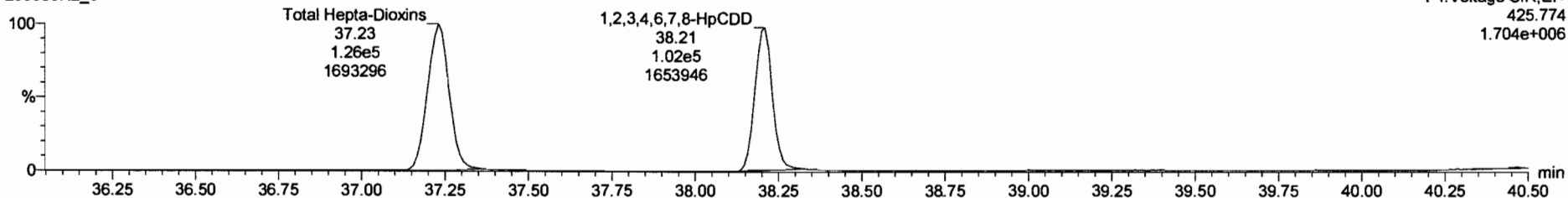
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1,2,3,4,6,7,8-HpCDD

200930R2\_5

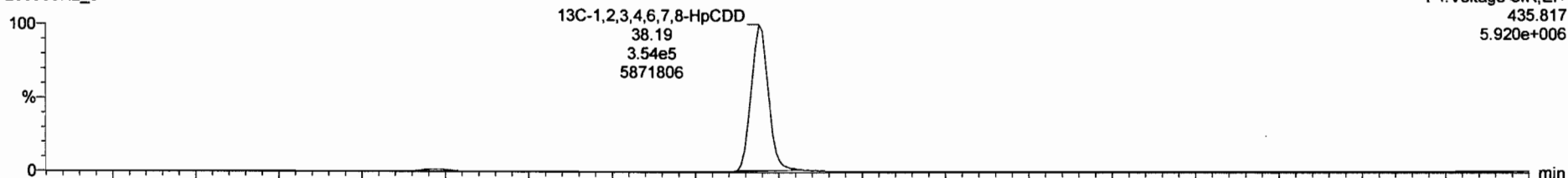


200930R2\_5

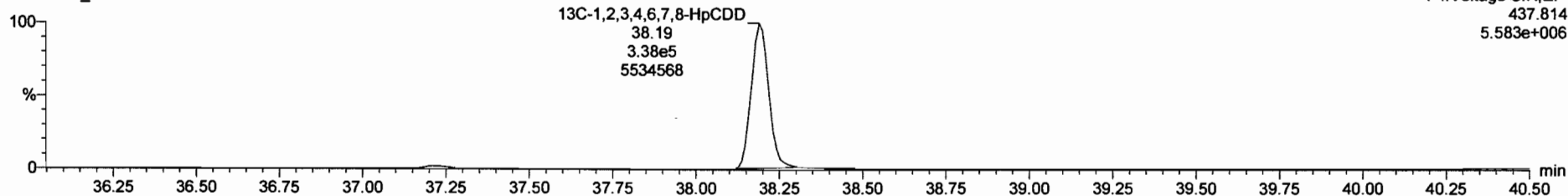


13C-1,2,3,4,6,7,8-HpCDD

200930R2\_5



200930R2\_5



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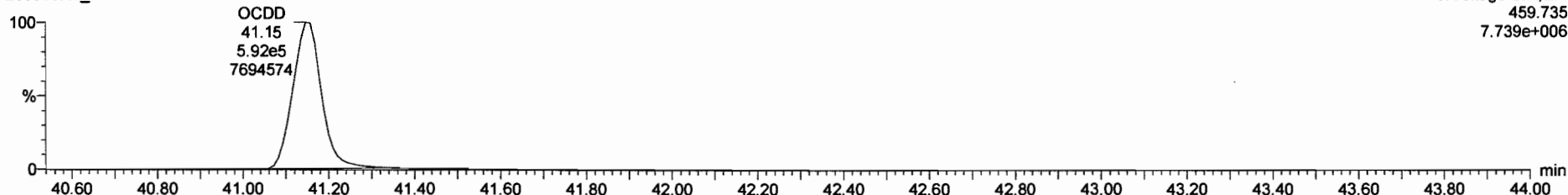
**OCDD**

200930R2\_5



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6.810e+006

200930R2\_5



F5:Voltage SIR, EI+  
459.735  
7.739e+006

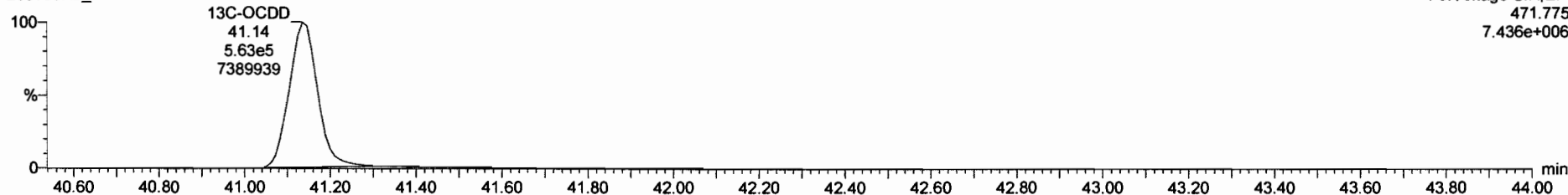
**13C-OCDD**

200930R2\_5



F5:Voltage SIR, EI+  
469.778  
6.540e+006

200930R2\_5



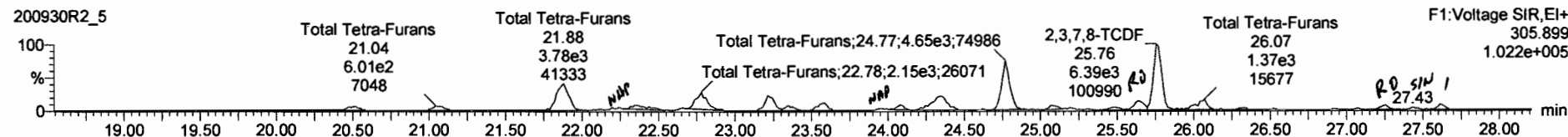
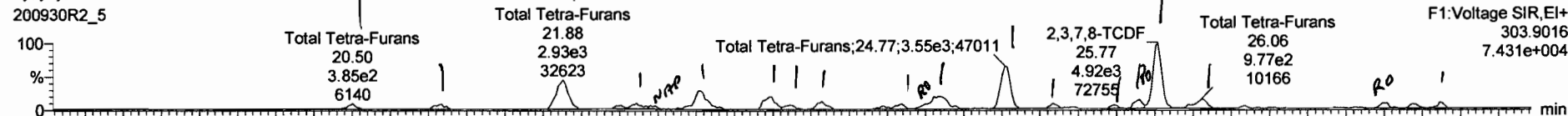
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471.775  
7.436e+006

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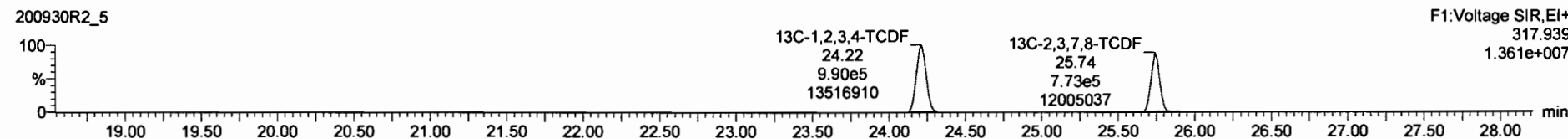
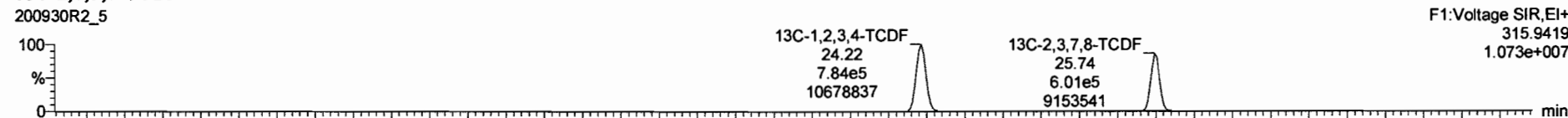
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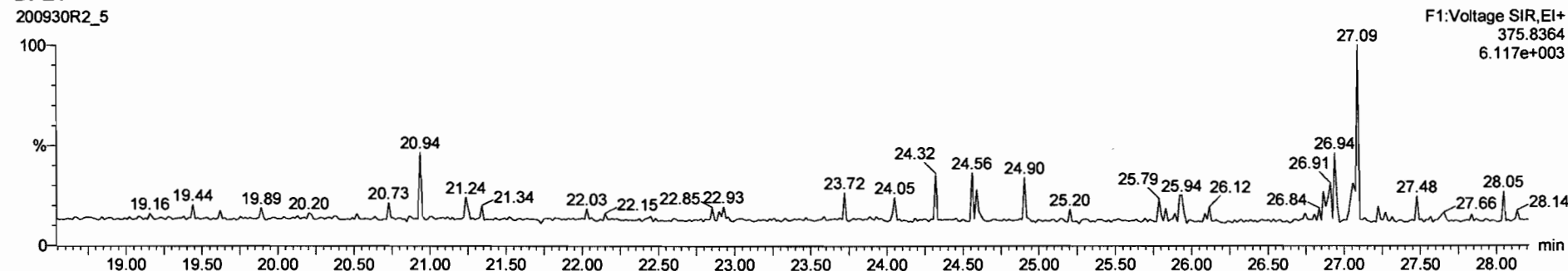
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### 13C-2,3,7,8-TCDF



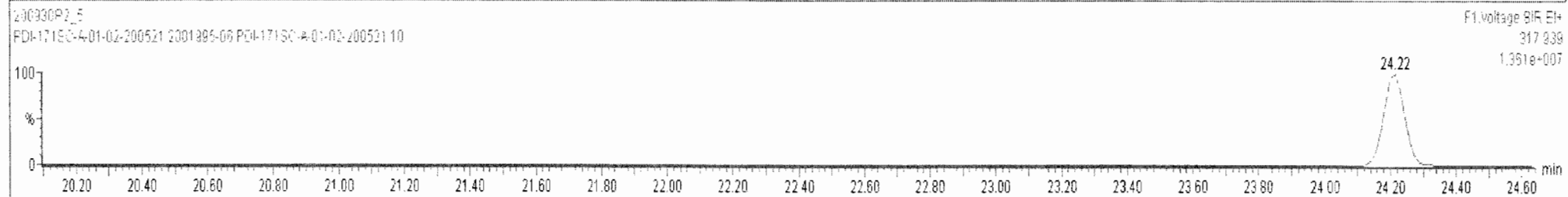
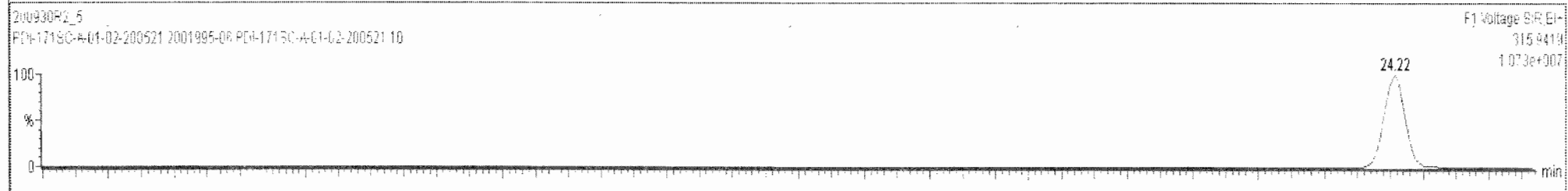
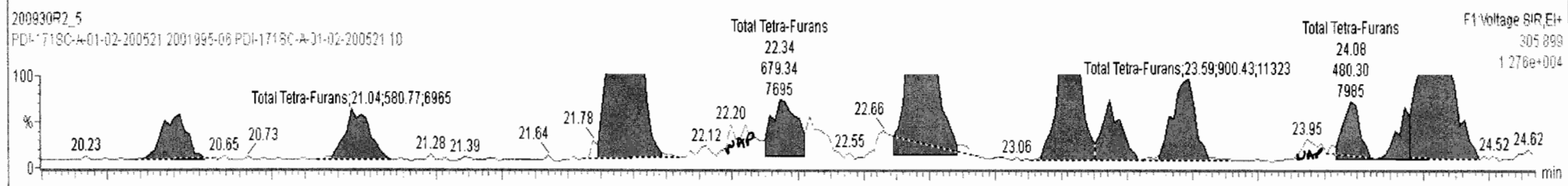
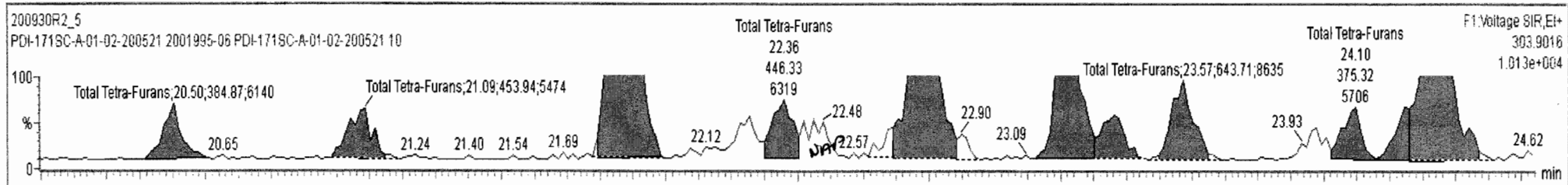
### DPE1



200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans			0.7353	10.026			9.49		0.0729	10.0
44	1st Func. Penta-Furans			0.9386	10.028			3.69		0.0191	3.69
45	Total Penta-Furans			0.9386	10.028			9.42		0.0597	9.79

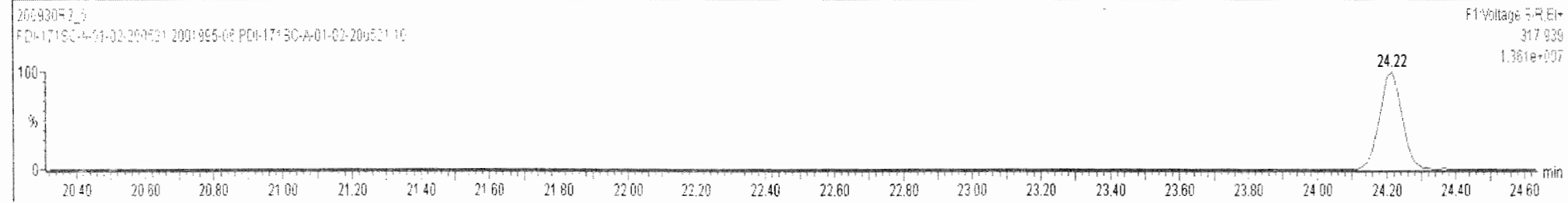
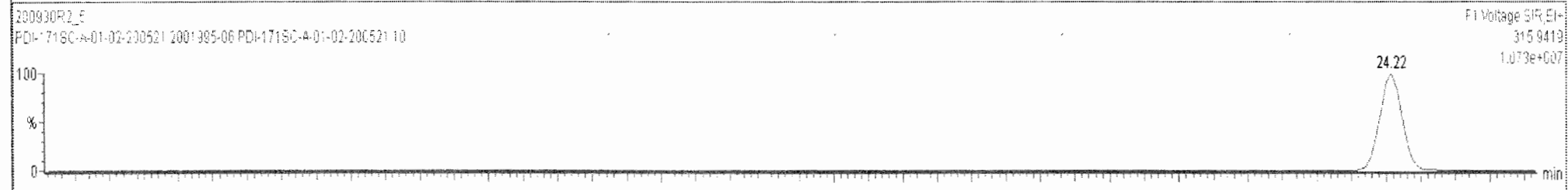
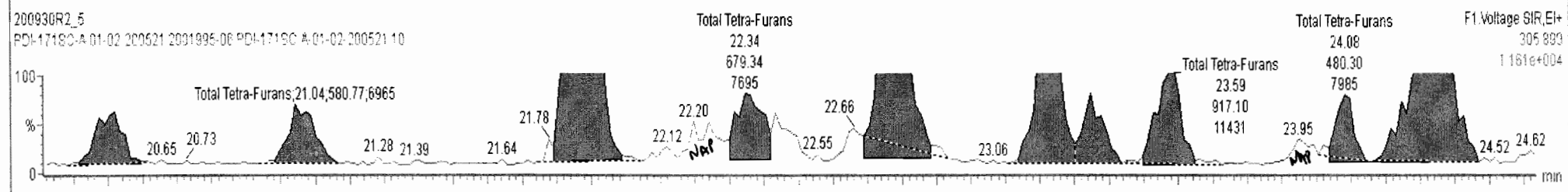
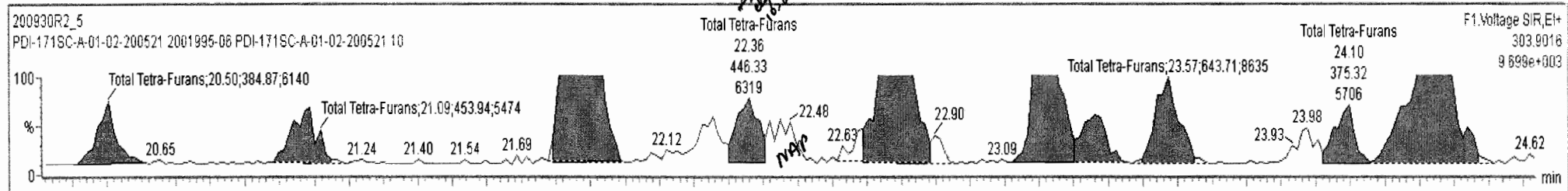
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1	Total Tetra-Furans	20.50	3.849e2	5.450e2	0.71	NO	0.18355	0.18355
2	Total Tetra-Furans	21.09	4.539e2	5.808e2	0.78	NO	0.20424	0.20424
3	Total Tetra-Furans	21.88	2.903e3	3.697e3	0.79	NO	1.3027	1.3027
4	Total Tetra-Furans	22.36	4.463e2	6.793e2	0.66	NO	0.22220	0.22220



200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - FDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.028			9.81		0.0729	10.0
44 1st Func. Penta-Furans				0.9386	10.028			3.69		0.0191	3.69
45 Total Penta-Furans				0.9386	10.028			9.39		0.0597	9.77

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.50	3.849e2	5.450e2	0.71	NO	0.18355	0.18355
2 Total Tetra-Furans	21.09	4.539e2	5.808e2	0.78	NO	0.20424	0.20424
3 Total Tetra-Furans	21.88	2.903e3	3.697e3	0.79	NO	1.3027	1.3027

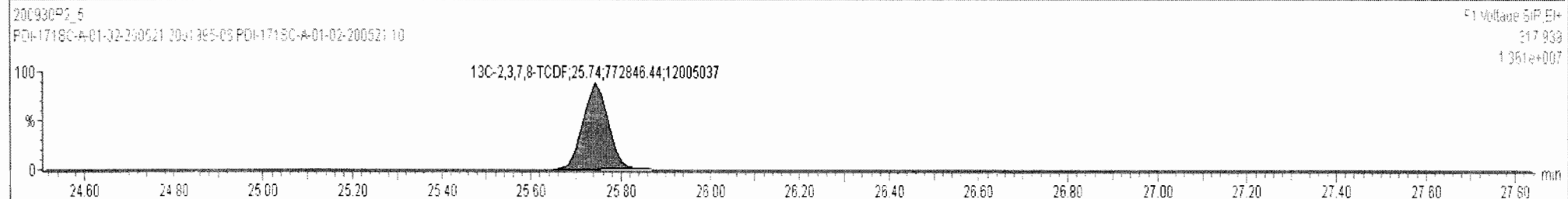
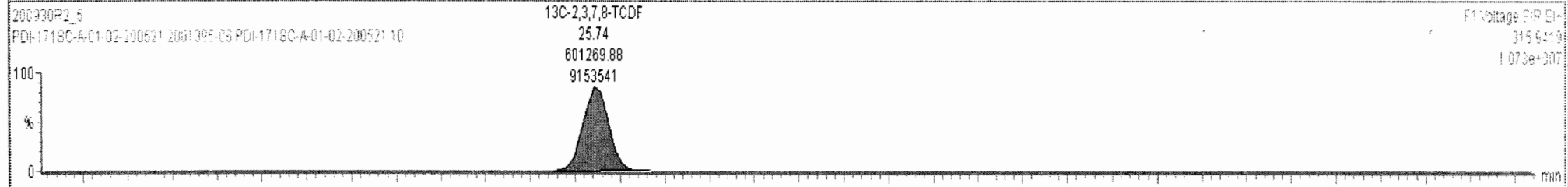
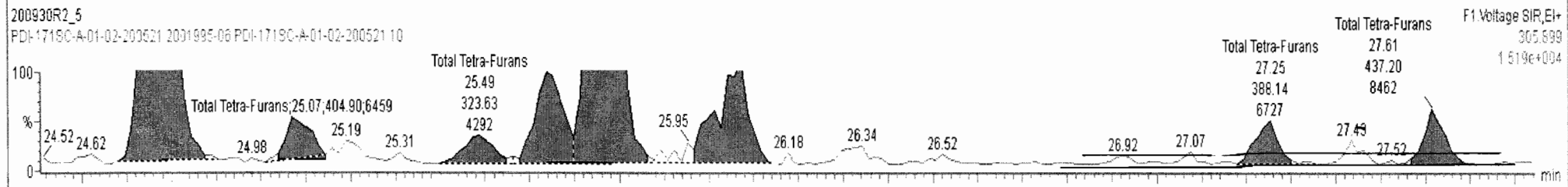
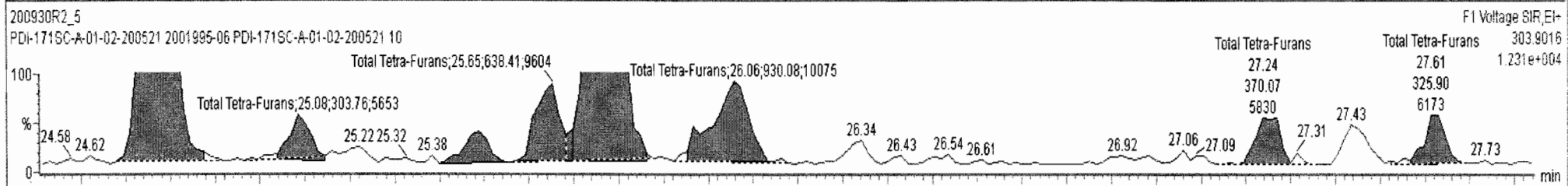




200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.028			9.60		0.0729	10.0
44 1st Func. Penta-Furans				0.9386	10.028			3.69		0.0191	3.69
45 Total Penta-Furans				0.9386	10.028			9.39		0.0597	9.77

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.50	3.849e2	5.450e2	0.71	NO	0.18355	0.18355
2 Total Tetra-Furans	21.09	4.539e2	5.809e2	0.78	NO	0.20424	0.20424
3 Total Tetra-Furans	21.88	2.903e3	3.697e3	0.79	NO	1.3027	1.3027



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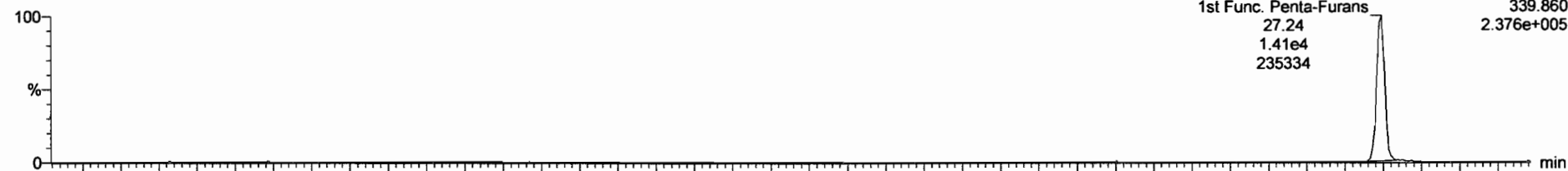
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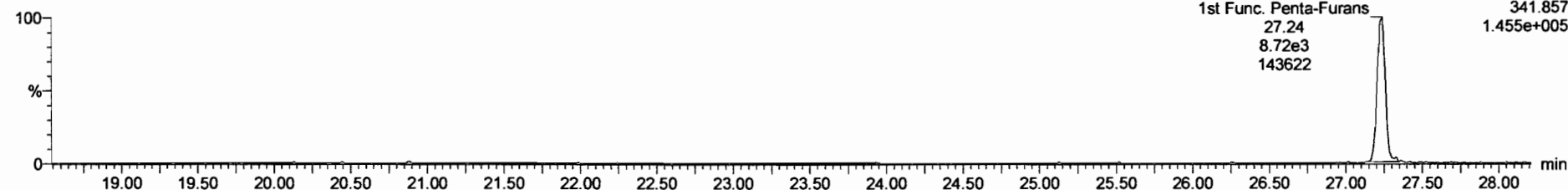
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1st Func. Penta-Furans

200930R2\_5

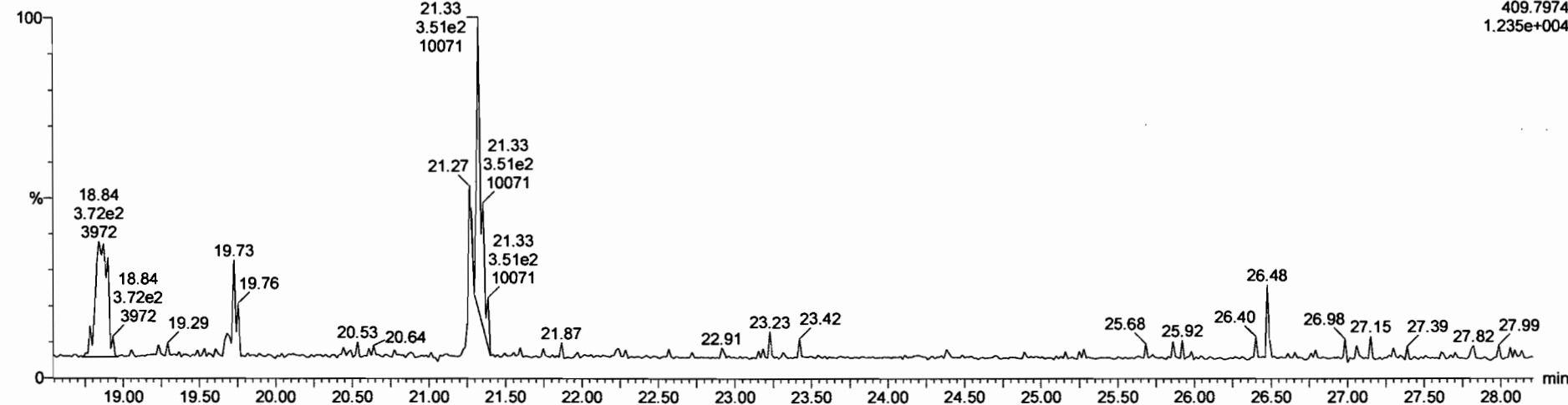


200930R2\_5



DPE6

200930R2\_5



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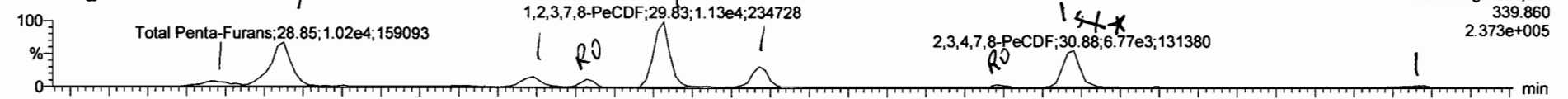
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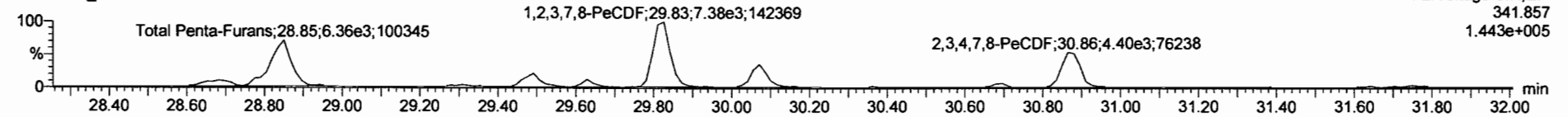
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**1,2,3,7,8-PeCDF**

200930R2\_5

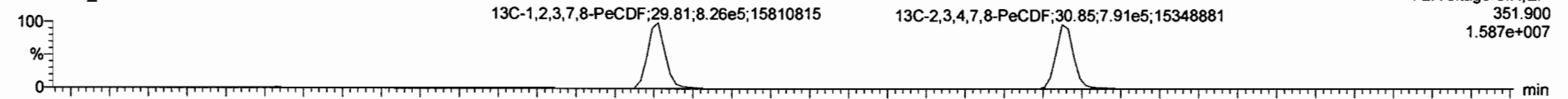


200930R2\_5

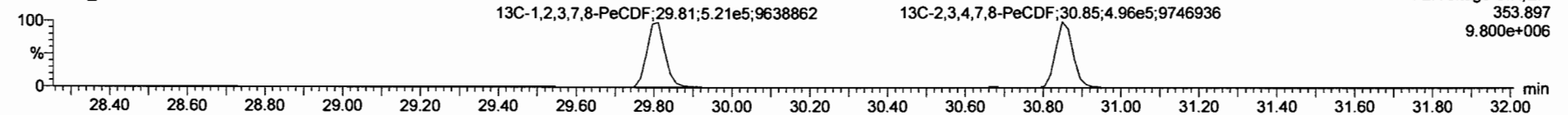


**13C-1,2,3,7,8-PeCDF**

200930R2\_5

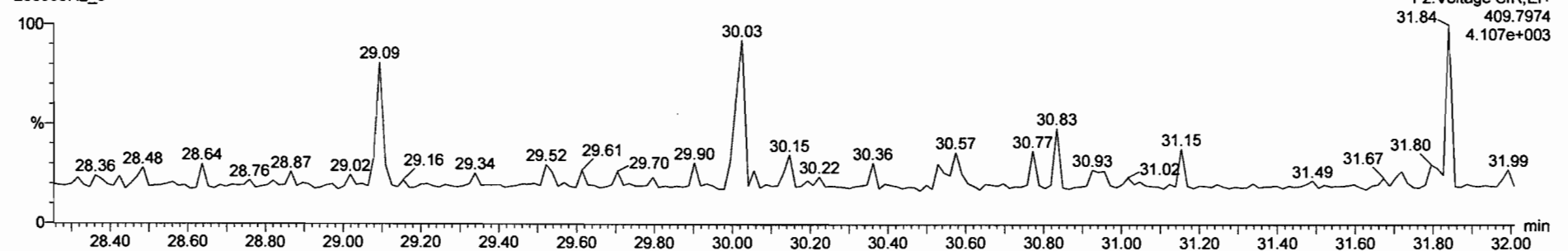


200930R2\_5



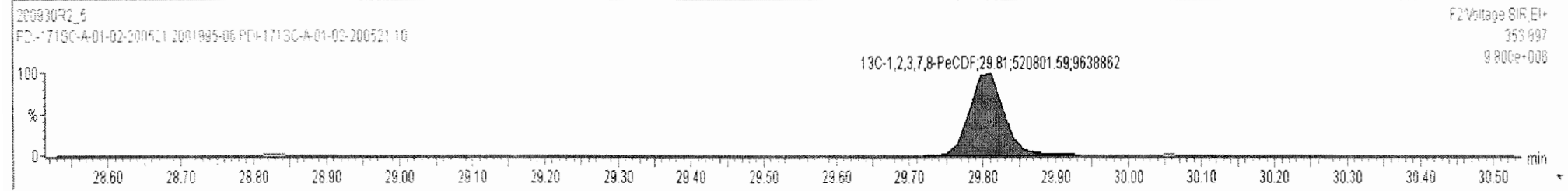
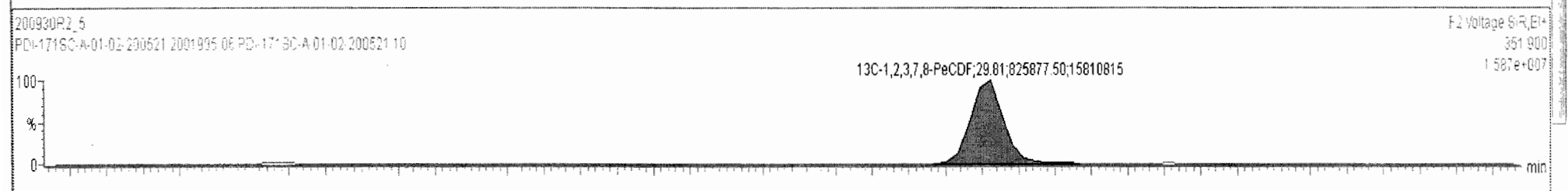
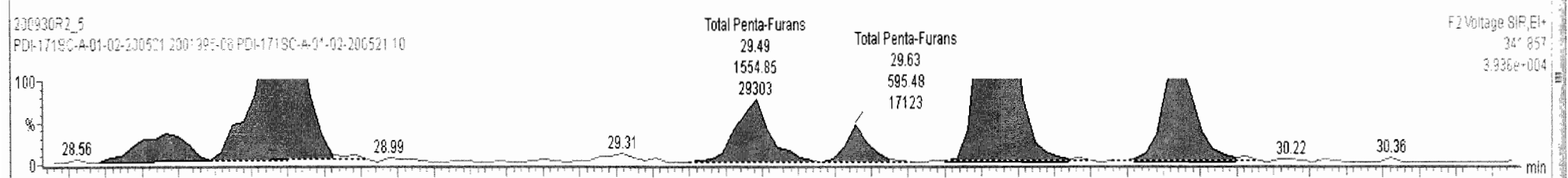
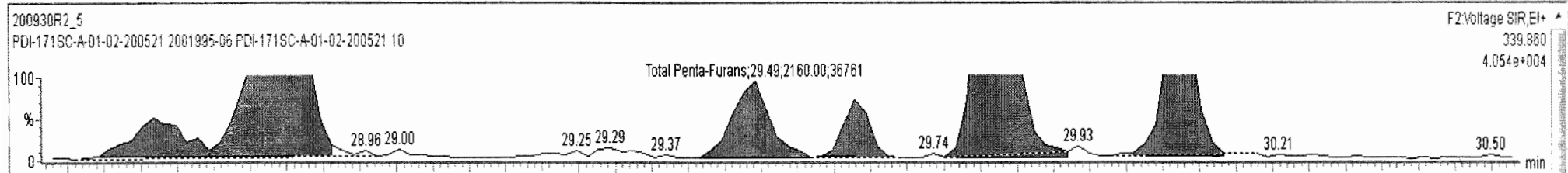
**DPE2**

200930R2\_5



Name	Resp	RA	n/y	RRF	wt/yol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.028			9.60		0.0729	10.0
44 1st Func. Penta-Furans				0.9386	10.028			3.69		0.0191	3.69
45 Total Penta-Furans				0.9386	10.028			9.42		0.0597	8.79

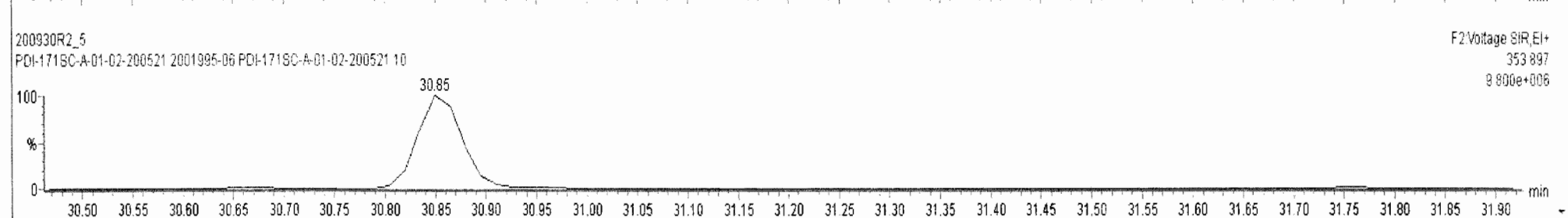
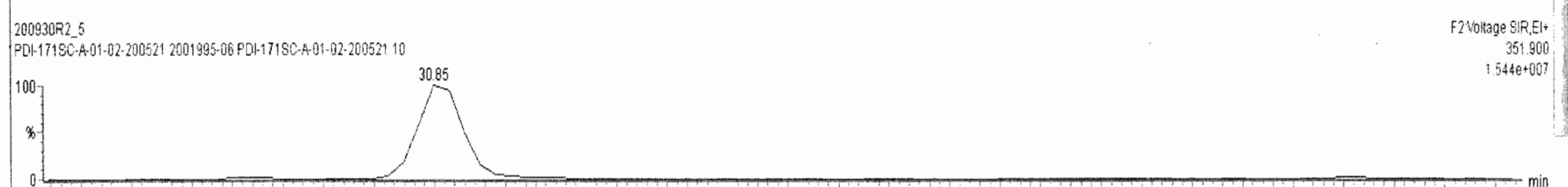
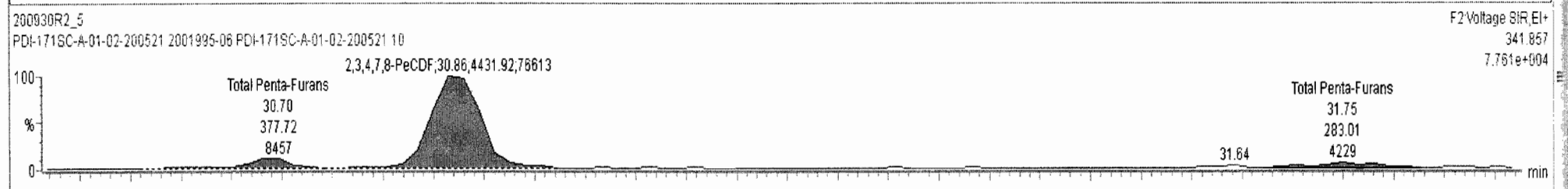
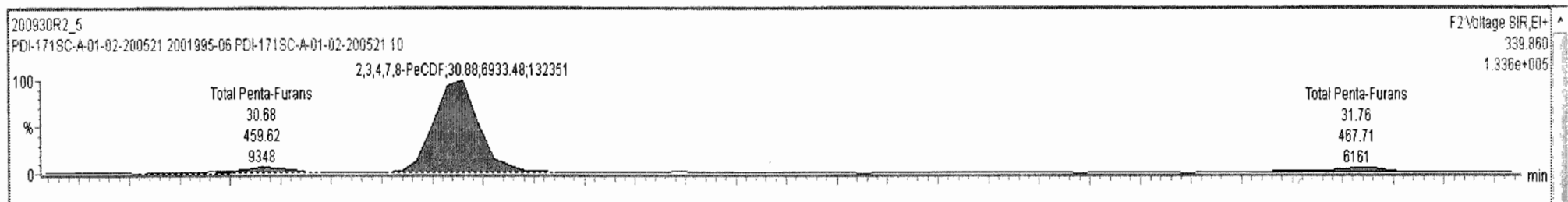
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.67	1.529e3	1.027e3	1.49	NO	0.41239	0.41239
2 Total Penta-Furans	28.85	1.001e4	6.330e3	1.58	NO	2.6362	2.6362
3 Total Penta-Furans	29.49	2.160e3	1.555e3	1.39	NO	0.59943	0.59943
4 Total Penta-Furans	29.63	1.122e3	5.955e2	1.88	YES	0.24502	0.00000
5 1,2,3,7,8-PeCDF	29.83	1.146e4	7.474e3	1.53	NO	2.9883	2.9883
6 Total Penta-Furans	30.07	3.684e3	2.468e3	1.49	NO	0.99275	0.99275



200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9366	10.026			9.43		0.0597	9.80
46 Total Hexa-Furans				0.8699	10.026			26.4		0.0912	29.1
47 Total Hepta-Furans				0.8908	10.026			52.7		0.186	52.9

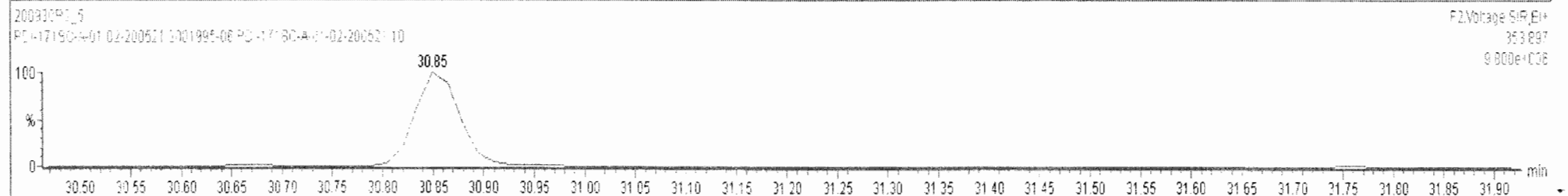
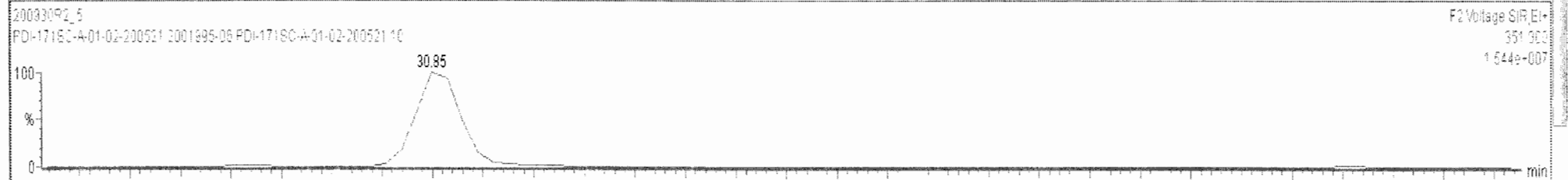
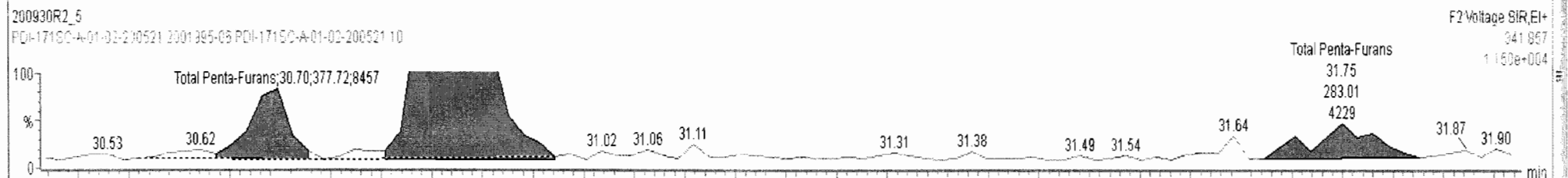
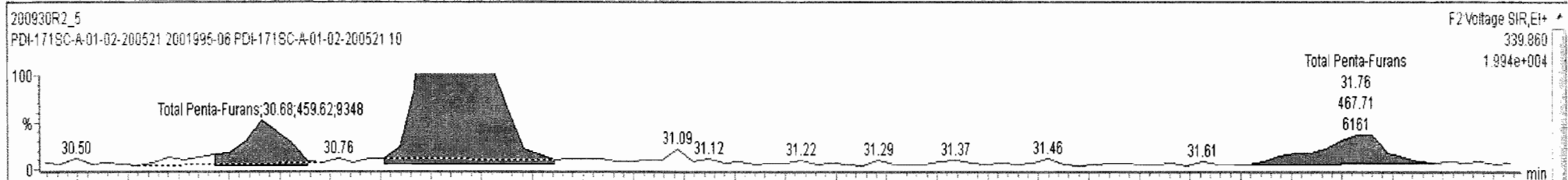
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
7 Total Penta-Furans	30.68	4.596e2	3.777e2	1.22	YES	0.12201	0.00000
8 2,3,4,7,8-PeCDF	30.86	6.933e3	4.432e3	1.56	NO	1.6779	1.6779
9 Total Penta-Furans	31.76	4.677e2	2.630e2	1.65	NO	0.12114	0.12114



200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.028			9.43		0.0597	9.80
46 Total Hexa-Furans				0.8699	10.028			26.4		0.0912	29.1
47 Total Hepta-Furans				0.8908	10.028			52.7		0.186	52.9

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
7 Total Penta-Furans	30.68	4.596e2	3.777e2	1.22	YES	0.12201	0.00000
8 2,3,4,7,8-PeCDF	30.86	6.933e3	4.432e3	1.56	NO	1.6779	1.6779
9 Total Penta-Furans	31.76	4.677e2	2.830e2	1.65	NO	0.12114	0.12114



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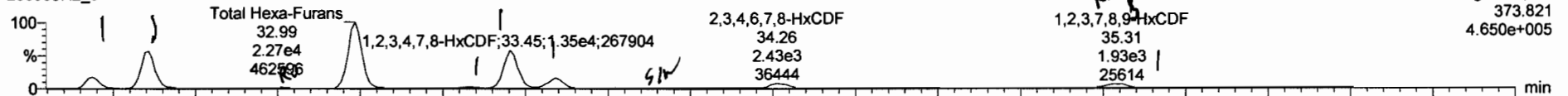
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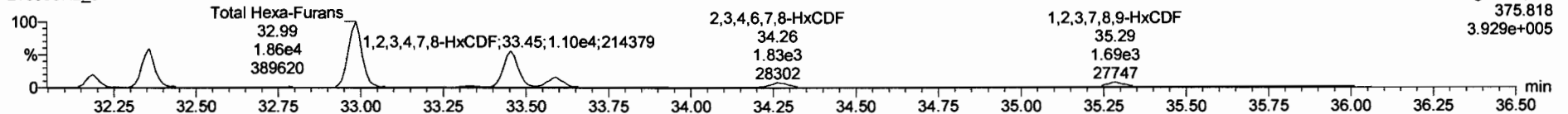
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**1,2,3,4,7,8-HxCDF**

200930R2\_5

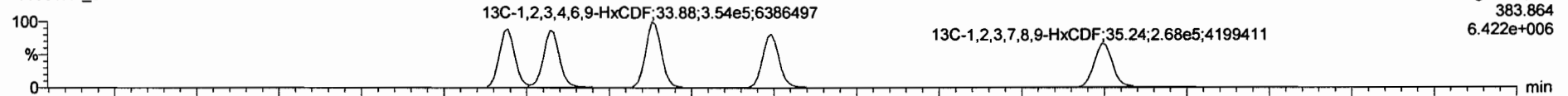


200930R2\_5

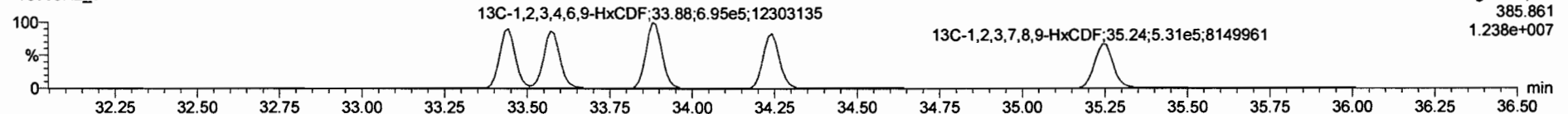


**13C-1,2,3,4,7,8-HxCDF**

200930R2\_5

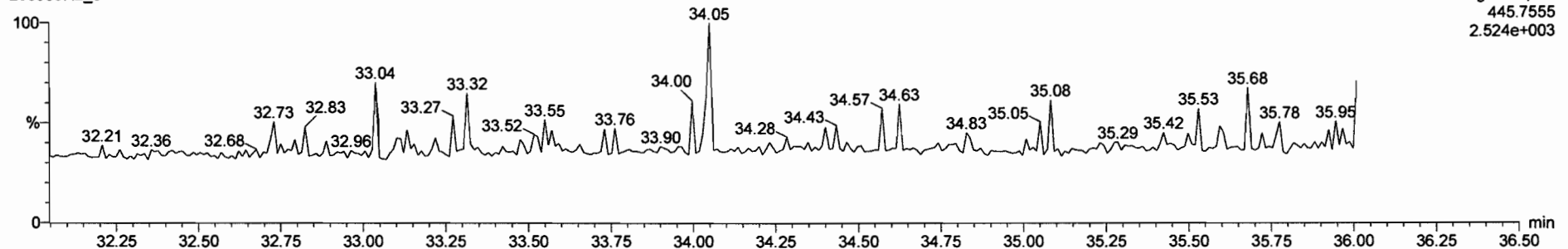


200930R2\_5



**DPE3**

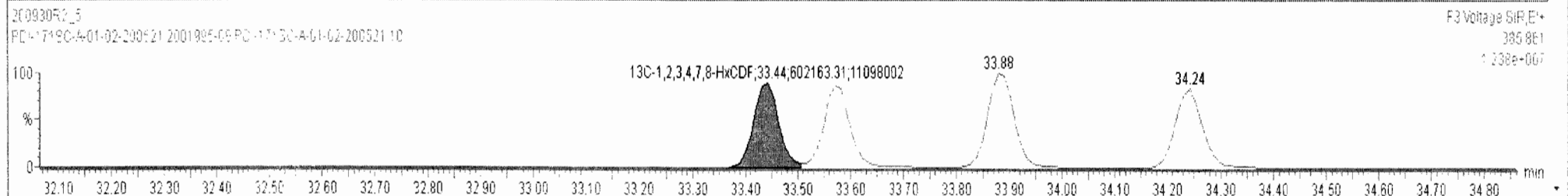
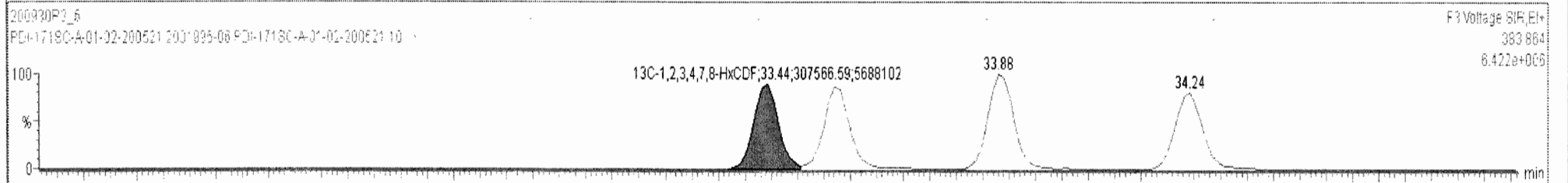
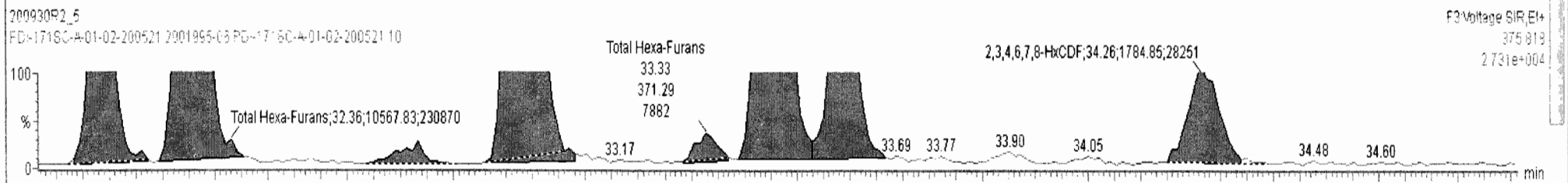
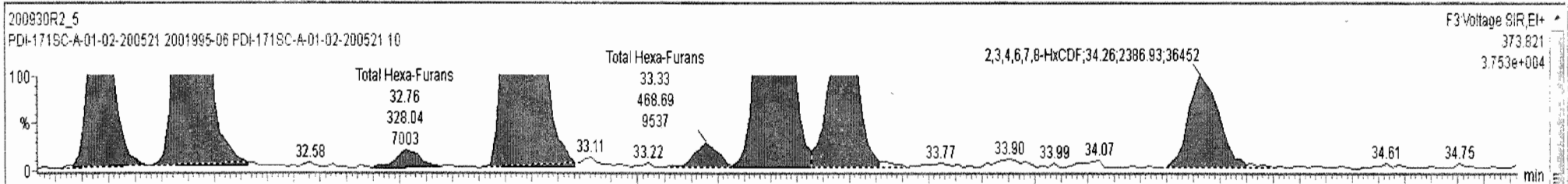
200930R2\_5



200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.028			26.7		0.0912	29.5
47 Total Hepta-Furans				0.8908	10.028			52.3		0.187	52.5
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	3.903e3	3.432e3	1.14	NO	1.9142	1.9142
2 Total Hexa-Furans	32.36	1.312e4	1.057e4	1.24	NO	6.1820	6.1820
3 Total Hexa-Furans	32.76	3.280e2	3.209e2	1.02	YES	0.15464	0.00000
4 Total Hexa-Furans	32.99	2.282e4	1.883e4	1.21	NO	10.870	10.870

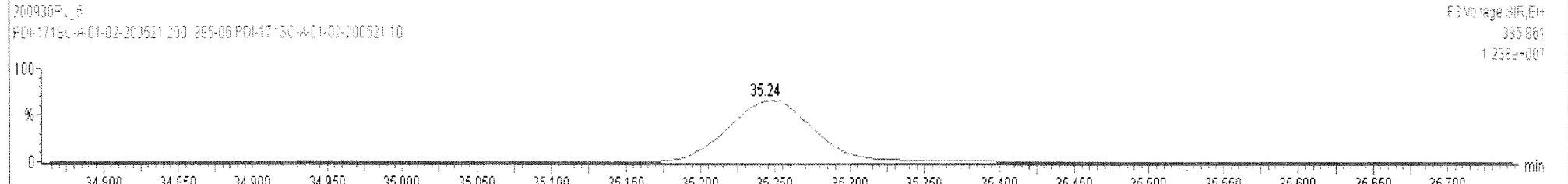
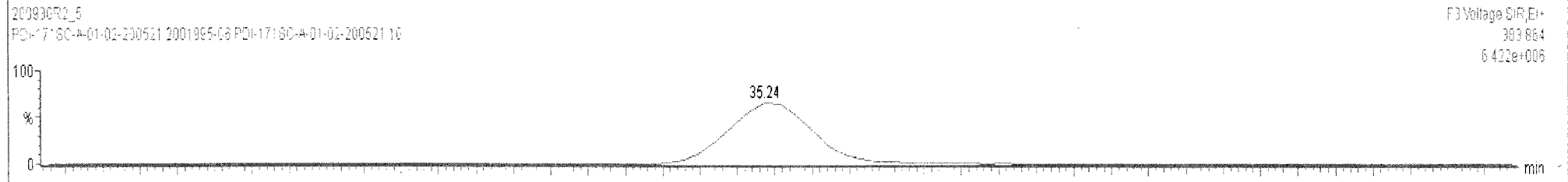
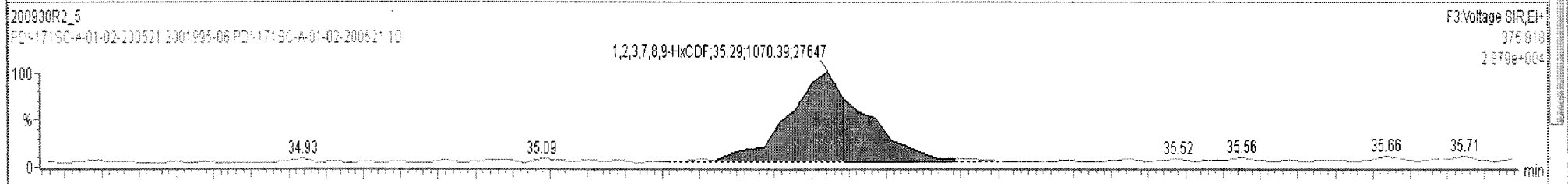
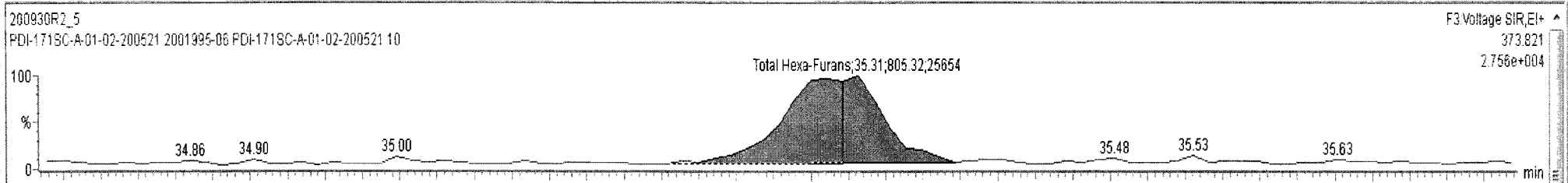




200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	WVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.028			9.43		0.0597	9.80
46 Total Hexa-Furans				0.8699	10.028			28.4		0.0912	29.5
47 Total Hepta-Furans				0.8908	10.028			52.7		0.166	52.9

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	3.903e3	3.432e3	1.14	NO	1.9142	1.9142
2 Total Hexa-Furans	32.36	1.312e4	1.057e4	1.24	NO	6.1820	6.1820
3 Total Hexa-Furans	32.76	3.280e2	3.209e2	1.02	YES	0.15464	0.00000
4 Total Hexa-Furans	32.00	3.282e4	4.892e4	1.24	NO	10.970	10.970

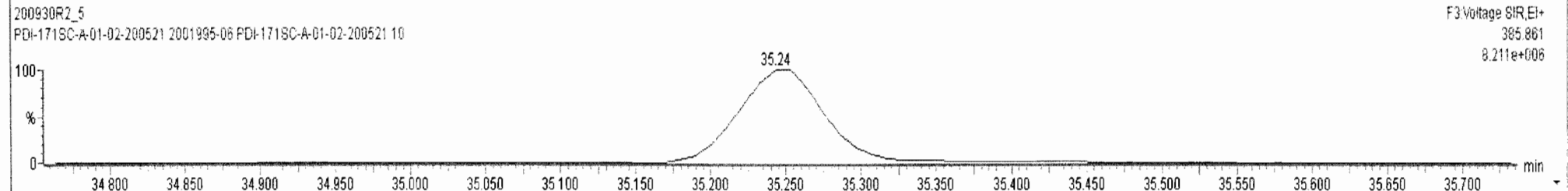
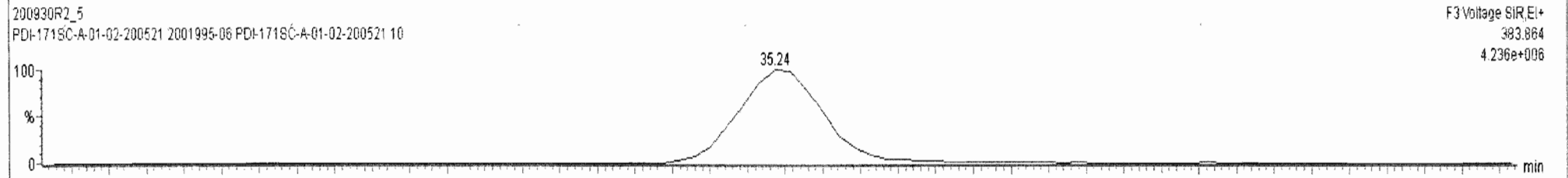
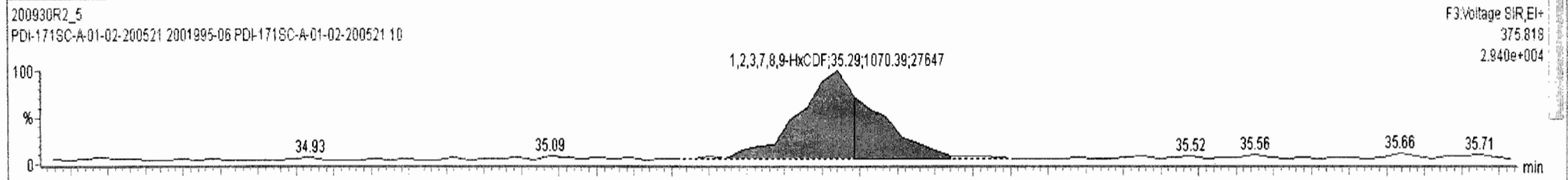
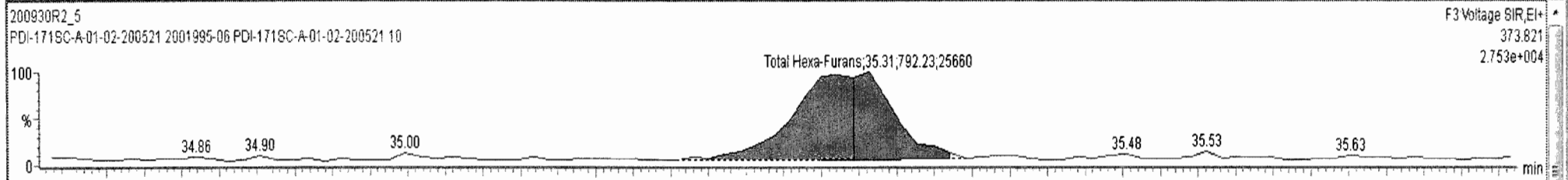




200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans			0.8689	10.026			28.4		0.0912	29.4
47	Total Hepta-Furans			0.8908	10.026			52.3		0.187	52.5
48	PFK1										

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.19	3.940e3	3.404e3	1.16	NO	1.9166
2	Total Hexa-Furans	32.36	1.300e4	1.057e4	1.23	NO	6.1496
3	Total Hexa-Furans	32.76	3.280e2	3.271e2	1.00	YES	0.15464
4	Total Hexa-Furans	32.99	2.267e4	1.857e4	1.22	NO	10.761



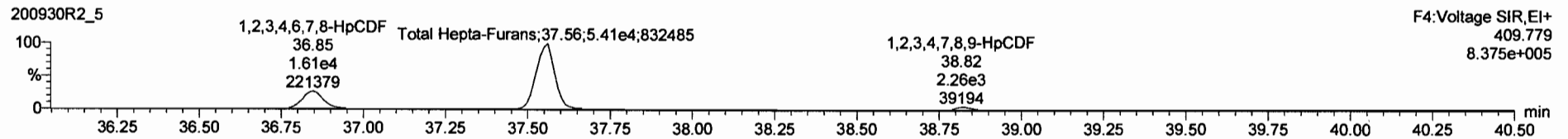
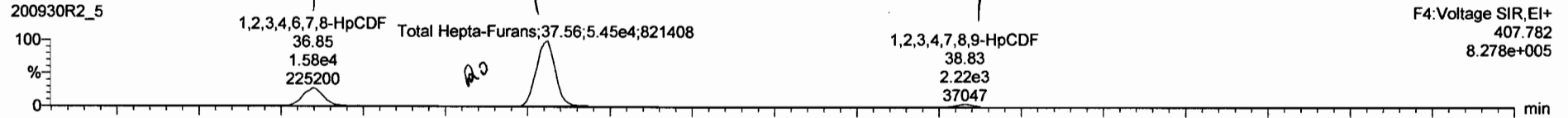
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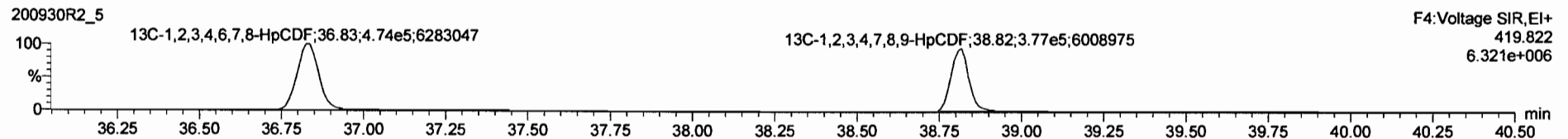
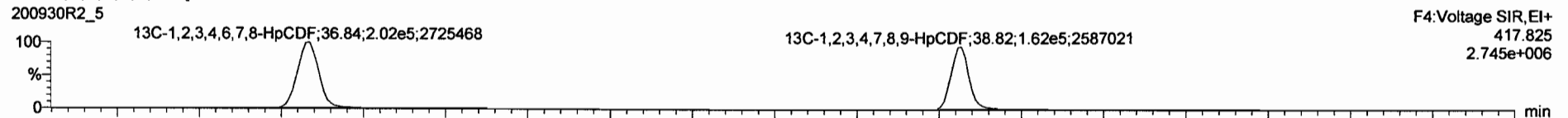
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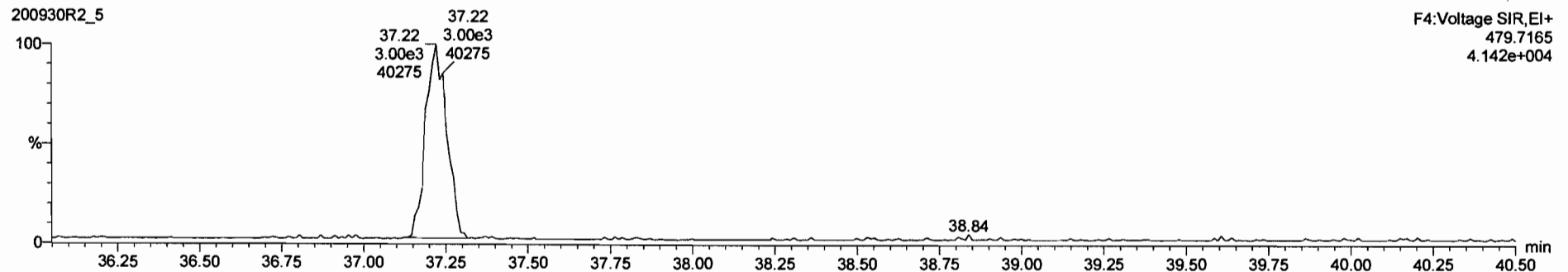
**1,2,3,4,6,7,8-HpCDF**

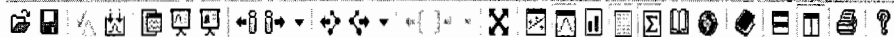


**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**

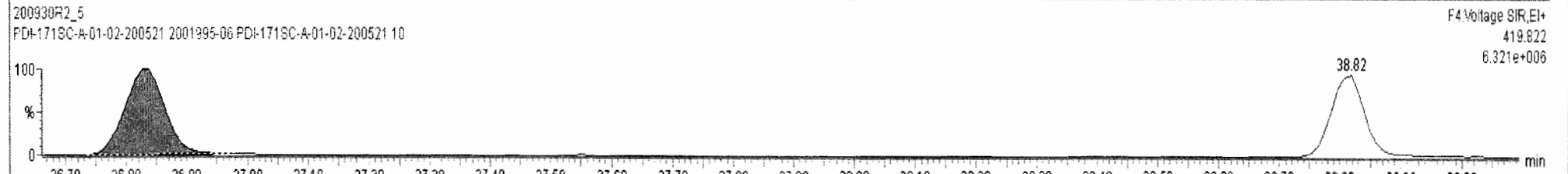
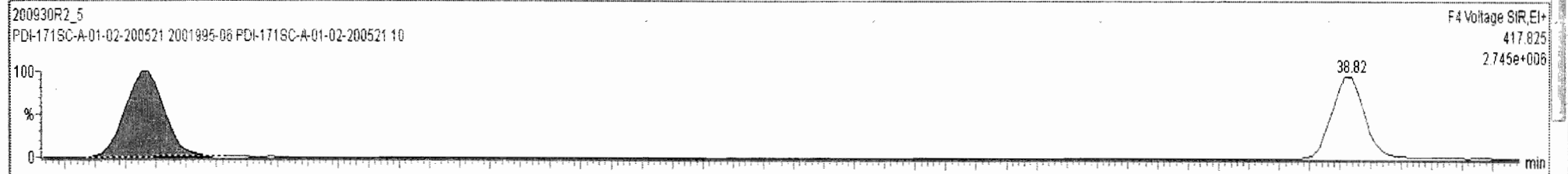
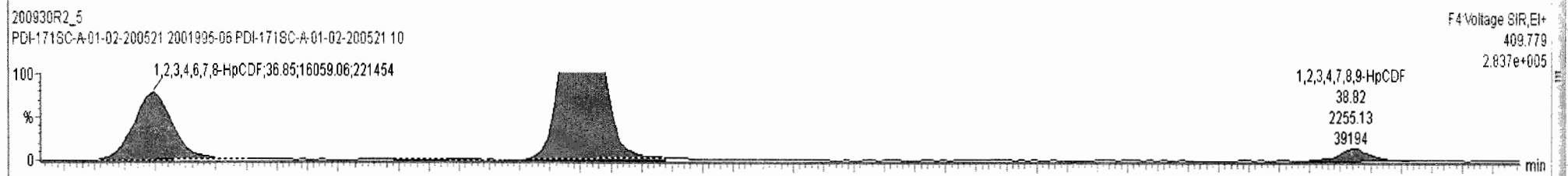
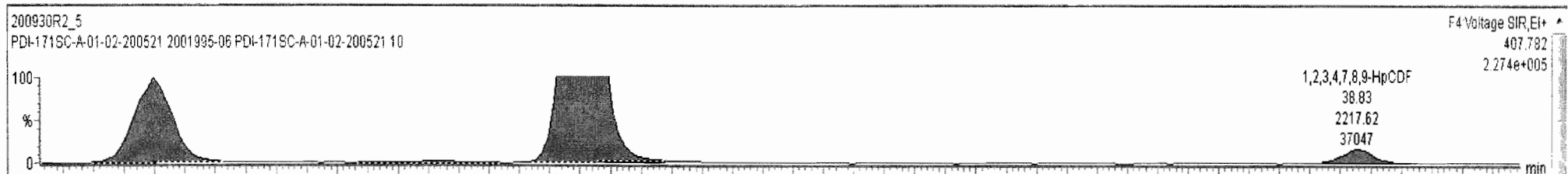


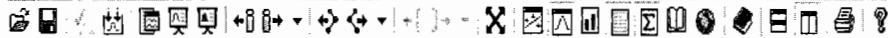


200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.026			28.7		0.0912	29.5
47 Total Hepta-Furans				0.6908	10.026			52.7		0.186	52.9
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.85	1.608e4	1.606e4	1.00	NO	10.520	10.520
2 Total Hepta-Furans	37.32	5.161e2	3.467e2	1.49	YES	0.25903	0.00000
3 Total Hepta-Furans	37.56	5.550e4	5.503e4	1.01	NO	40.481	40.481
4 1,2,3,4,7,8,9-HpCDF	38.83	2.218e3	2.255e3	0.98	NO	1.6562	1.6562

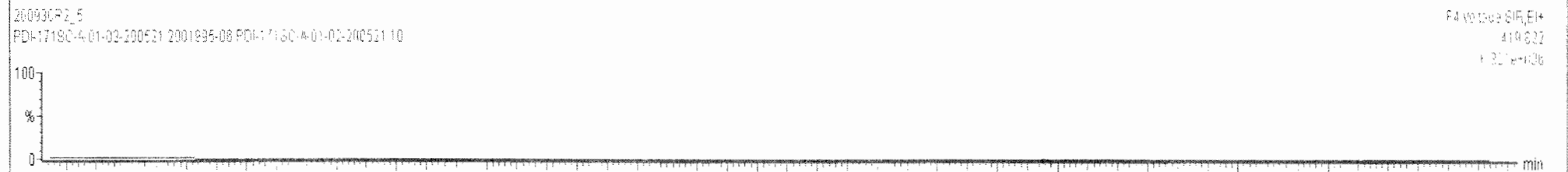
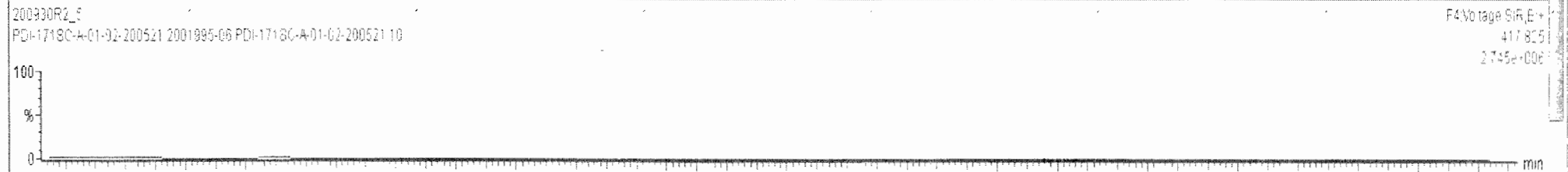
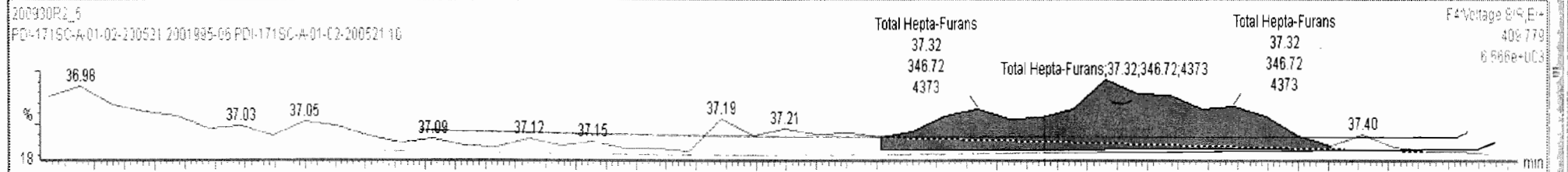
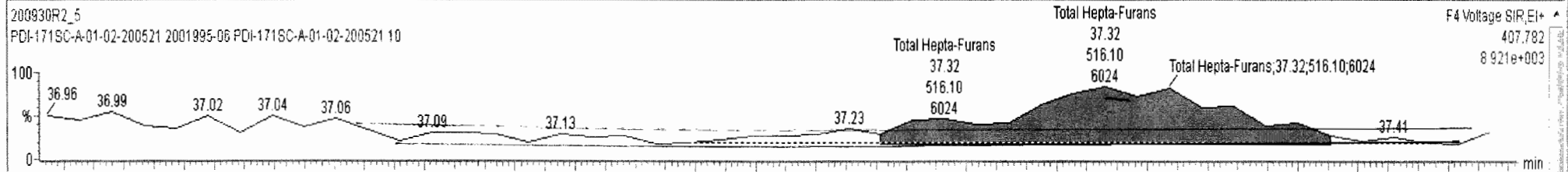




200930R2\_5 - 2001995-06 PDI-171SC-A-01-02-200521 10 - PDI-171SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/yol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.028			28.7		0.0912	29.5
47 Total Hepta-Furans				0.8908	10.028			52.7		0.186	52.9
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.85	1.606e4	1.606e4	1.00	NO	10.520	10.520
2 Total Hepta-Furans	37.32	5.161e2	3.467e2	1.49	YES	0.25903	0.00000
3 Total Hepta-Furans	37.56	5.550e4	5.503e4	1.01	NO	40.481	40.481
4 1,2,3,4,7,8,9-HpCDF	38.83	2.218e3	2.255e3	0.98	NO	1.6562	1.6562



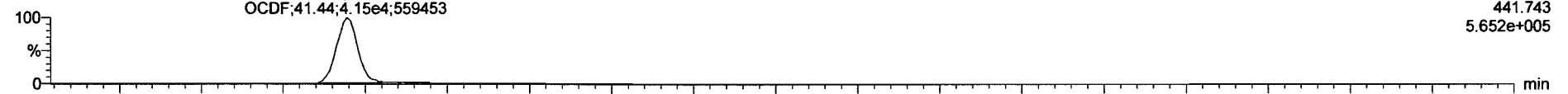
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Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

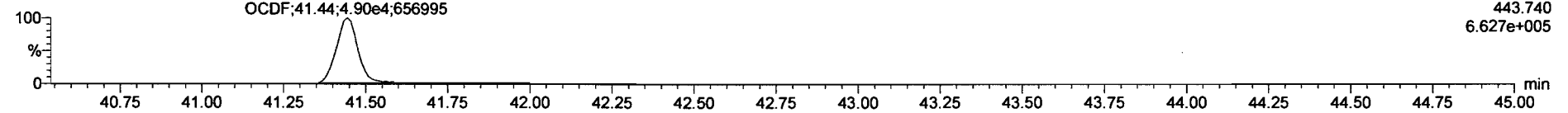
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**OCDF**

200930R2\_5

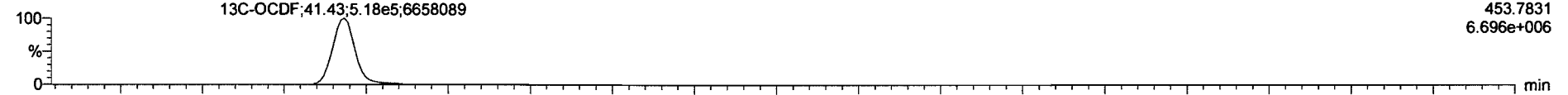


200930R2\_5

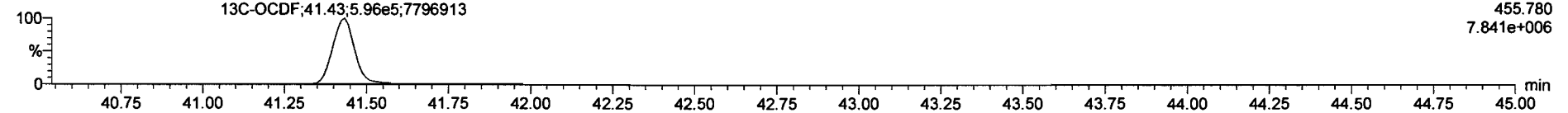


**13C-OCDF**

200930R2\_5

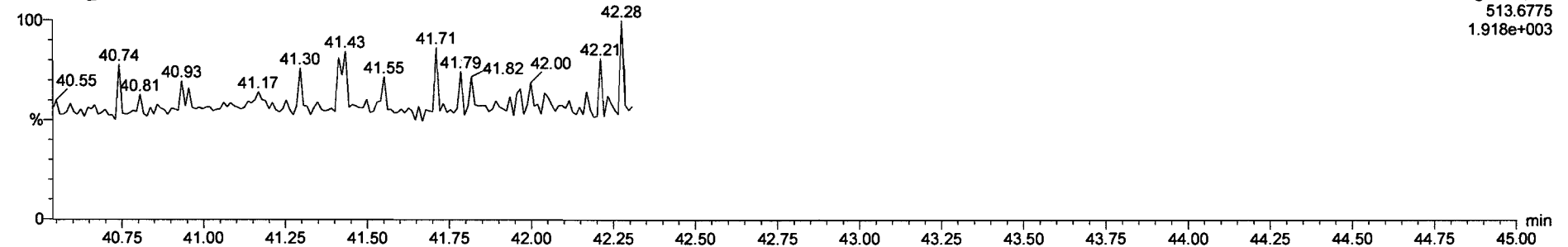


200930R2\_5



**DPE5**

200930R2\_5

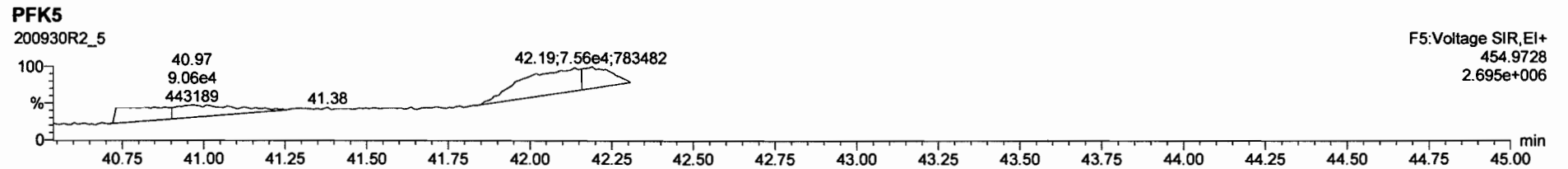
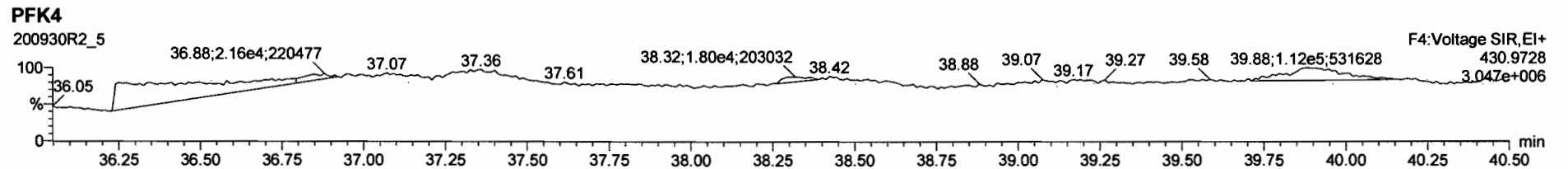
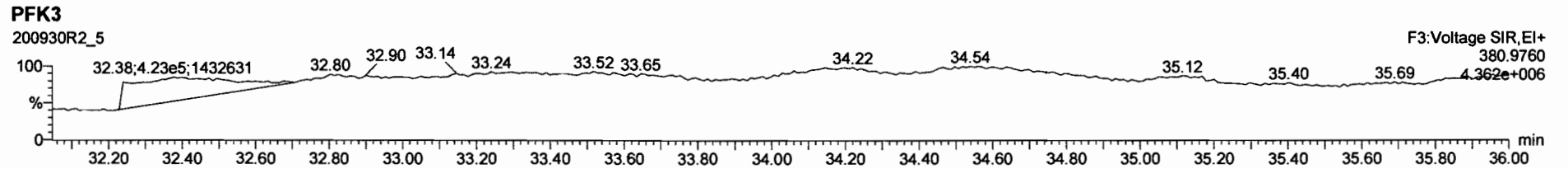
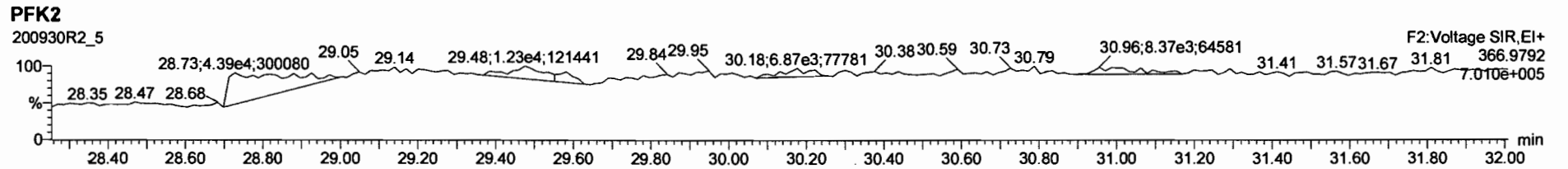
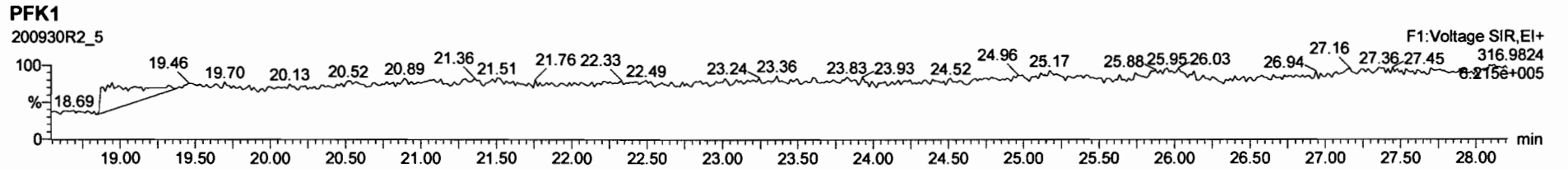


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Last Altered: Thursday, October 01, 2020 08:14:45 Pacific Daylight Time

Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

Name: 200930R2\_5, Date: 01-Oct-2020, Time: 00:53:50, ID: 2001995-06 PDI-171SC-A-01-02-200521 10, Description: PDI-171SC-A-01-02-200521



Dataset: U:\VG12.PRO\Results\200930R2\200930R2-6a.qld

Last Altered: Thursday, October 22, 2020 12:26:16 Pacific Daylight Time  
Printed: Thursday, October 22, 2020 12:30:09 Pacific Daylight Time

*chy* 10-23-2020

Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

*MW*  
*10/22/20*

Name: 200930R2\_6, Date: 01-Oct-2020, Time: 01:37:27, ID: 2001995-07 PDI-171SC-A-02-03-200521 10, Description: PDI-171SC-A-02-03-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.20e3	0.45	YES	1.02	10.050	26.463	26.45	1.001	1.001	0.40161		0.0378	0.287
2	2 1,2,3,7,8-PeCDD	2.41e3	0.61	NO	0.956	10.050	31.085	31.08	1.001	1.000	0.54913		0.0720	0.549
3	3 1,2,3,4,7,8-HxCDD	2.80e3	1.23	NO	1.00	10.050	34.369	34.38	1.000	1.001	0.80121		0.148	0.801
4	4 1,2,3,6,7,8-HxCDD	9.79e3	1.24	NO	0.888	10.050	34.487	34.50	1.000	1.000	2.8033		0.155	2.80
5	5 1,2,3,7,8,9-HxCDD	5.57e3	1.22	NO	0.909	10.050	34.763	34.77	1.000	1.001	1.6274		0.162	1.63
6	6 1,2,3,4,6,7,8-HpCDD	1.82e5	1.00	NO	0.832	10.050	38.222	38.22	1.000	1.000	68.219		0.521	68.2
7	7 OCDD	1.37e6	0.88	NO	0.862	10.050	41.158	41.17	1.000	1.000	727.71		0.679	728
8	8 2,3,7,8-TCDF	1.47e4	0.75	NO	0.735	10.050	25.770	25.79	1.000	1.001	2.8507		0.0640	2.85
9	9 1,2,3,7,8-PeCDF	1.56e4	1.45	NO	0.939	10.050	29.833	29.83	1.001	1.001	2.7333		0.103	2.73
10	10 2,3,4,7,8-PeCDF	1.24e4	1.59	NO	1.05	10.050	30.884	30.88	1.001	1.000	1.8670		0.0838	1.87
11	11 1,2,3,4,7,8-HxCDF	1.72e4	1.18	NO	0.842	10.050	33.454	33.46	1.000	1.000	4.8112		0.0682	4.81
12	12 1,2,3,6,7,8-HxCDF	6.05e3	1.15	NO	0.894	10.050	33.592	33.60	1.000	1.001	1.6024		0.0667	1.60
13	13 2,3,4,6,7,8-HxCDF	3.70e3	1.34	NO	0.870	10.050	34.273	34.27	1.001	1.001	1.0454		0.0736	1.05
14	14 1,2,3,7,8,9-HxCDF	1.84e3	1.31	NO	0.855	10.050	35.285	35.31	1.001	1.001	0.58383		0.0927	0.584
15	15 1,2,3,4,6,7,8-HpCDF	3.00e4	0.97	NO	0.891	10.050	36.885	36.87	1.001	1.001	11.058		0.170	11.1
16	16 1,2,3,4,7,8,9-HpCDF	3.49e3	1.13	NO	1.00	10.050	38.829	38.85	1.000	1.001	1.3274		0.141	1.33
17	17 OCDF	6.37e4	0.85	NO	0.784	10.050	41.445	41.47	1.000	1.001	33.666		0.195	33.7
18	18 13C-2,3,7,8-TCDD	1.07e6	0.78	NO	1.15	10.050	26.420	26.43	1.029	1.029	159.11	80.0	0.124	
19	19 13C-1,2,3,7,8-PeCDD	9.14e5	0.63	NO	0.887	10.050	31.012	31.06	1.207	1.209	176.42	88.7	0.179	
20	20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.801	10.050	34.372	34.36	1.014	1.014	171.86	86.4	0.379	
21	21 13C-1,2,3,6,7,8-HxCDD	7.83e5	1.26	NO	0.892	10.050	34.501	34.49	1.018	1.017	174.01	87.4	0.341	
22	22 13C-1,2,3,7,8,9-HxCDD	7.49e5	1.25	NO	0.882	10.050	34.762	34.75	1.025	1.025	168.28	84.6	0.344	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.38e5	1.06	NO	0.719	10.050	38.196	38.21	1.127	1.127	175.79	88.3	0.473	
24	24 13C-OCDD	8.72e5	0.89	NO	0.563	10.050	41.125	41.16	1.213	1.214	306.96	77.1	0.687	
25	25 13C-2,3,7,8-TCDF	1.39e6	0.77	NO	1.01	10.050	25.763	25.76	1.003	1.003	164.63	82.7	0.182	
26	26 13C-1,2,3,7,8-PeCDF	1.21e6	1.58	NO	0.814	10.050	29.772	29.81	1.159	1.161	177.81	89.3	0.464	
27	27 13C-2,3,4,7,8-PeCDF	1.26e6	1.60	NO	0.768	10.050	30.809	30.86	1.200	1.202	195.89	98.4	0.492	
28	28 13C-1,2,3,4,7,8-HxCDF	8.43e5	0.51	NO	0.993	10.050	33.450	33.45	0.987	0.987	168.42	84.6	0.388	
29	29 13C-1,2,3,6,7,8-HxCDF	8.40e5	0.51	NO	0.990	10.050	33.593	33.58	0.991	0.991	168.27	84.6	0.389	
30	30 13C-2,3,4,6,7,8-HxCDF	8.10e5	0.51	NO	0.944	10.050	34.260	34.25	1.011	1.010	170.03	85.4	0.408	



Dataset: U:\VG12.PRO\Results\200930R2\200930R2-6a.qld

Last Altered: Thursday, October 22, 2020 12:26:16 Pacific Daylight Time

Printed: Thursday, October 22, 2020 12:30:09 Pacific Daylight Time

Name: 200930R2\_6, Date: 01-Oct-2020, Time: 01:37:27, ID: 2001995-07 PDI-171SC-A-02-03-200521 10, Description: PDI-171SC-A-02-03-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	7.35e5	0.50	NO	0.842	10.050	35.277	35.26	1.041	1.040	173.18	87.0	0.458	
32	13C-1,2,3,4,6,7,8-HpCDF	6.07e5	0.43	NO	0.687	10.050	36.867	36.85	1.087	1.087	175.22	88.0	0.459	
33	13C-1,2,3,4,7,8,9-HpCDF	5.23e5	0.43	NO	0.555	10.050	38.817	38.83	1.145	1.145	186.92	93.9	0.568	
34	13C-OCDF	9.61e5	0.87	NO	0.608	10.050	41.407	41.44	1.221	1.223	313.14	78.7	0.701	
35	37Cl-2,3,7,8-TCDD	4.79e5			1.18	10.050	26.451	26.45	1.030	1.030	69.519	87.3	0.0411	
36	13C-1,2,3,4-TCDD	1.16e6	0.78	NO	1.00	10.050	25.740	25.68	1.000	1.000	199.01	100	0.143	
37	13C-1,2,3,4-TCDF	1.67e6	0.79	NO	1.00	10.050	24.310	24.23	1.000	1.000	199.01	100	0.183	
38	13C-1,2,3,4,6,9-HxCDF	1.00e6	0.51	NO	1.00	10.050	33.920	33.90	1.000	1.000	199.01	100	0.386	
39	Total Tetra-Dioxins				1.02	10.050	24.620		0.000		5.5615		0.0378	6.08
40	Total Penta-Dioxins				0.956	10.050	29.960		0.000		5.4178		0.0720	5.60
41	Total Hexa-Dioxins				0.888	10.050	33.635		0.000		28.492		0.163	28.5
42	Total Hepta-Dioxins				0.832	10.050	37.640		0.000		179.18		0.521	179
43	Total Tetra-Furans				0.735	10.050	23.610		0.000		14.524		0.0640	14.9
44	1st Func. Penta-Furans				0.939	10.050	27.230		0.000		5.2448		0.0176	5.24
45	Total Penta-Furans				0.939	10.050	29.275		0.000		10.902		0.0985	11.1
46	Total Hexa-Furans				0.870	10.050	33.555		0.000		25.657		0.0743	25.7
47	Total Hepta-Furans				0.891	10.050	37.835		0.000		38.905		0.165	38.9

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-6a.qld

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Printed: Thursday, October 22, 2020 12:30:09 Pacific Daylight Time

Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R2\_6, Date: 01-Oct-2020, Time: 01:37:27, ID: 2001995-07 PDI-171SC-A-02-03-200521 10, Description: PDI-171SC-A-02-03-200521

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.75	2.360e4	2.783e4	1.969e3	2.476e3	0.80	NO	4.446e3	0.81309	0.81309	0.0378
2	Total Tetra-Dioxins	23.09	1.267e4	1.654e4	9.583e2	1.189e3	0.81	NO	2.147e3	0.39265	0.39265	0.0378
3	Total Tetra-Dioxins	23.60	7.941e3	9.023e3	4.858e2	5.819e2	0.83	NO	1.068e3	0.19528	0.19528	0.0378
4	Total Tetra-Dioxins	24.42	1.124e4	1.277e4	7.378e2	9.657e2	0.76	NO	1.704e3	0.31157	0.31157	0.0378
5	Total Tetra-Dioxins	24.62	1.017e4	1.035e4	7.098e2	8.206e2	0.86	NO	1.530e3	0.27990	0.27990	0.0378
6	Total Tetra-Dioxins	24.84	1.198e4	8.584e3	6.687e2	7.100e2	0.94	YES	0.000e0	0.00000	0.22984	0.0378
7	Total Tetra-Dioxins	26.18	1.319e5	1.853e5	8.434e3	1.108e4	0.76	NO	1.951e4	3.5690	3.5690	0.0378
8	2,3,7,8-TCDD	26.45	1.091e4	2.380e4	6.826e2	1.513e3	0.45	YES	2.196e3	0.00000	0.28698	0.0378

**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	3.875e4	5.657e4	3.065e3	4.585e3	0.67	NO	7.650e3	1.7423	1.7423	0.0720
2	Total Penta-Dioxins	29.31	1.635e4	3.160e4	8.820e2	1.517e3	0.58	NO	2.399e3	0.54626	0.54626	0.0720
3	Total Penta-Dioxins	29.83	2.026e4	3.193e4	8.370e2	1.310e3	0.64	NO	2.147e3	0.48902	0.48902	0.0720
4	Total Penta-Dioxins	30.06	2.167e4	3.422e4	1.673e3	2.534e3	0.66	NO	4.207e3	0.95809	0.95809	0.0720
5	Total Penta-Dioxins	30.28	2.205e4	2.817e4	1.328e3	2.117e3	0.63	NO	3.445e3	0.78456	0.78456	0.0720
6	Total Penta-Dioxins	30.60	7.228e3	1.178e4	3.631e2	5.617e2	0.65	NO	9.248e2	0.21060	0.21060	0.0720
7	1,2,3,7,8-PeCDD	31.08	1.923e4	2.855e4	9.114e2	1.500e3	0.61	NO	2.411e3	0.54913	0.54913	0.0720
8	Total Penta-Dioxins	31.17	5.458e3	8.239e3	2.258e2	3.798e2	0.59	NO	6.056e2	0.13792	0.13792	0.0720
9	Total Penta-Dioxins	31.43	6.582e3	9.654e3	3.804e2	4.918e2	0.77	YES	0.000e0	0.00000	0.18255	0.0720

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-6a.qld

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Name: 200930R2\_6, Date: 01-Oct-2020, Time: 01:37:27, ID: 2001995-07 PDI-171SC-A-02-03-200521 10, Description: PDI-171SC-A-02-03-200521

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.73	3.872e5	3.125e5	1.903e4	1.568e4	1.21	NO	3.471e4	10.482	10.482	0.163
2	Total Hexa-Dioxins	33.34	4.591e4	4.314e4	2.568e3	2.215e3	1.16	NO	4.783e3	1.4443	1.4443	0.163
3	Total Hexa-Dioxins	33.62	2.681e5	2.308e5	1.948e4	1.610e4	1.21	NO	3.557e4	10.743	10.743	0.163
4	1,2,3,4,7,8-HxCDD	34.38	2.551e4	2.310e4	1.546e3	1.256e3	1.23	NO	2.802e3	0.80121	0.80121	0.148
5	1,2,3,6,7,8-HxCDD	34.50	8.438e4	7.469e4	5.419e3	4.374e3	1.24	NO	9.793e3	2.8033	2.8033	0.155
6	Total Hexa-Dioxins	34.66	1.724e4	1.347e4	1.063e3	8.926e2	1.19	NO	1.956e3	0.59064	0.59064	0.163
7	1,2,3,7,8,9-HxCDD	34.77	4.503e4	4.321e4	3.061e3	2.509e3	1.22	NO	5.570e3	1.6274	1.6274	0.162

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.25	1.993e6	1.939e6	1.493e5	1.464e5	1.02	NO	2.956e5	110.96	110.96	0.521
2	1,2,3,4,6,7,8-HpCDD	38.22	1.516e6	1.539e6	9.089e4	9.086e4	1.00	NO	1.818e5	68.219	68.219	0.521

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Dataset: U:\VG12.PRO\Results\200930R2\200930R2-6a.qld

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Name: 200930R2\_6, Date: 01-Oct-2020, Time: 01:37:27, ID: 2001995-07 PDI-171SC-A-02-03-200521 10, Description: PDI-171SC-A-02-03-200521

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.52	8.544e3	9.117e3	6.588e2	7.754e2	0.85	NO	1.434e3	0.27885	0.27885	0.0640
2	Total Tetra-Furans	21.09	7.464e3	1.281e4	6.503e2	9.674e2	0.67	NO	1.618e3	0.31454	0.31454	0.0640
3	Total Tetra-Furans	21.90	4.620e4	5.560e4	3.969e3	5.443e3	0.73	NO	9.412e3	1.8302	1.8302	0.0640
4	Total Tetra-Furans	22.27	5.439e3	8.181e3	4.332e2	5.707e2	0.76	NO	1.004e3	0.19521	0.19521	0.0640
5	Total Tetra-Furans	22.36	9.899e3	1.258e4	7.785e2	1.197e3	0.65	YES	0.000e0	0.00000	0.34797	0.0640
6	Total Tetra-Furans	22.48	5.558e3	6.922e3	4.014e2	4.947e2	0.81	NO	8.961e2	0.17424	0.17424	0.0640
7	Total Tetra-Furans	22.79	3.480e4	3.999e4	3.197e3	4.187e3	0.76	NO	7.385e3	1.4359	1.4359	0.0640
8	Total Tetra-Furans	23.24	2.487e4	3.044e4	1.851e3	2.472e3	0.75	NO	4.323e3	0.84054	0.84054	0.0640
9	Total Tetra-Furans	23.38	8.812e3	9.104e3	6.057e2	7.916e2	0.77	NO	1.397e3	0.27170	0.27170	0.0640
10	Total Tetra-Furans	23.57	1.272e4	1.846e4	9.013e2	1.300e3	0.69	NO	2.201e3	0.42794	0.42794	0.0640
11	Total Tetra-Furans	23.98	4.366e3	5.253e3	2.592e2	3.894e2	0.67	NO	6.486e2	0.12612	0.12612	0.0640
12	Total Tetra-Furans	24.08	9.263e3	1.161e4	6.560e2	7.685e2	0.85	NO	1.425e3	0.27699	0.27699	0.0640
13	Total Tetra-Furans	24.26	7.321e3	1.054e4	2.718e2	4.101e2	0.66	NO	6.819e2	0.13259	0.13259	0.0640
14	Total Tetra-Furans	24.34	2.569e4	3.739e4	3.063e3	4.006e3	0.76	NO	7.068e3	1.3744	1.3744	0.0640
15	Total Tetra-Furans	24.78	6.189e4	8.788e4	4.467e3	6.035e3	0.74	NO	1.050e4	2.0420	2.0420	0.0640
16	Total Tetra-Furans	25.10	8.639e3	1.322e4	5.698e2	7.029e2	0.81	NO	1.273e3	0.24746	0.24746	0.0640
17	Total Tetra-Furans	25.20	5.520e3	7.003e3	2.445e2	3.166e2	0.77	NO	5.611e2	0.10909	0.10909	0.0640
18	Total Tetra-Furans	25.49	5.585e3	6.495e3	2.847e2	3.837e2	0.74	NO	6.684e2	0.12996	0.12996	0.0640
19	Total Tetra-Furans	25.67	1.624e4	2.591e4	9.898e2	1.506e3	0.66	NO	2.496e3	0.48538	0.48538	0.0640
20	2,3,7,8-TCDF	25.79	1.005e5	1.316e5	6.275e3	8.386e3	0.75	NO	1.466e4	2.8507	2.8507	0.0640
21	Total Tetra-Furans	26.07	1.626e4	2.182e4	1.331e3	1.714e3	0.78	NO	3.045e3	0.59204	0.59204	0.0640
22	Total Tetra-Furans	27.25	6.964e3	1.298e4	4.275e2	6.147e2	0.70	NO	1.042e3	0.20266	0.20266	0.0640
23	Total Tetra-Furans	27.63	8.459e3	9.724e3	4.215e2	5.312e2	0.79	NO	9.527e2	0.18524	0.18524	0.0640

**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	27.24	3.189e5	2.114e5	1.866e4	1.192e4	1.56	NO	3.058e4	5.2448	5.2448	0.0176

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Dataset: U:\VG12.PRO\Results\200930R2\200930R2-6a.qld

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Name: 200930R2\_6, Date: 01-Oct-2020, Time: 01:37:27, ID: 2001995-07 PDI-171SC-A-02-03-200521 10, Description: PDI-171SC-A-02-03-200521

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Furans	28.70	2.090e4	1.749e4	1.790e3	1.218e3	1.47	NO	3.008e3	0.51587	0.51587	0.0985
2	Total Penta-Furans	28.85	1.608e5	1.063e5	1.196e4	7.751e3	1.54	NO	1.971e4	3.3812	3.3812	0.0985
3	Total Penta-Furans	29.48	5.377e4	4.317e4	3.280e3	2.412e3	1.36	NO	5.692e3	0.97631	0.97631	0.0985
4	Total Penta-Furans	29.63	2.559e4	1.775e4	1.222e3	8.206e2	1.49	NO	2.042e3	0.35029	0.35029	0.0985
5	1,2,3,7,8-PeCDF	29.83	1.758e5	1.266e5	9.262e3	6.369e3	1.45	NO	1.563e4	2.7333	2.7333	0.103
6	Total Penta-Furans	30.09	7.464e4	5.150e4	3.755e3	2.532e3	1.48	NO	6.287e3	1.0783	1.0783	0.0985
7	Total Penta-Furans	30.70	1.134e4	8.836e3	6.317e2	4.881e2	1.29	YES	0.000e0	0.00000	0.17825	0.0985
8	2,3,4,7,8-PeCDF	30.88	1.413e5	9.202e4	7.621e3	4.783e3	1.59	NO	1.240e4	1.8670	1.8670	0.0838

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.20	8.085e4	5.987e4	4.020e3	2.979e3	1.35	NO	6.999e3	1.9837	1.9837	0.0743
2	Total Hexa-Furans	32.37	2.600e5	2.092e5	1.223e4	1.023e4	1.19	NO	2.246e4	6.3655	6.3655	0.0743
3	Total Hexa-Furans	32.77	7.733e3	5.241e3	3.371e2	2.806e2	1.20	NO	6.177e2	0.17507	0.17507	0.0743
4	Total Hexa-Furans	33.00	3.479e5	2.788e5	1.672e4	1.363e4	1.23	NO	3.035e4	8.6008	8.6008	0.0743
5	Total Hexa-Furans	33.34	1.134e4	8.156e3	5.200e2	4.424e2	1.18	NO	9.624e2	0.27276	0.27276	0.0743
6	1,2,3,4,7,8-HxCDF	33.46	1.746e5	1.443e5	9.286e3	7.877e3	1.18	NO	1.716e4	4.8112	4.8112	0.0682
7	1,2,3,6,7,8-HxCDF	33.60	5.301e4	4.922e4	3.235e3	2.813e3	1.15	NO	6.048e3	1.6024	1.6024	0.0667
8	2,3,4,6,7,8-HxCDF	34.27	3.233e4	2.443e4	2.118e3	1.582e3	1.34	NO	3.701e3	1.0454	1.0454	0.0736
9	1,2,3,7,8,9-HxCDF	35.31	2.292e4	1.476e4	1.047e3	7.974e2	1.31	NO	1.845e3	0.58383	0.58383	0.0927
10	Total Hexa-Furans	35.32	1.565e4	1.245e4	4.288e2	3.336e2	1.29	NO	7.624e2	0.21607	0.21607	0.0743

**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	36.87	2.004e5	1.991e5	1.482e4	1.522e4	0.97	NO	3.004e4	11.058	11.058	0.170
2	Total Hepta-Furans	37.57	4.747e5	4.768e5	3.348e4	3.357e4	1.00	NO	6.705e4	26.519	26.519	0.165
3	1,2,3,4,7,8,9-HpCDF	38.85	2.722e4	2.854e4	1.848e3	1.640e3	1.13	NO	3.488e3	1.3274	1.3274	0.141

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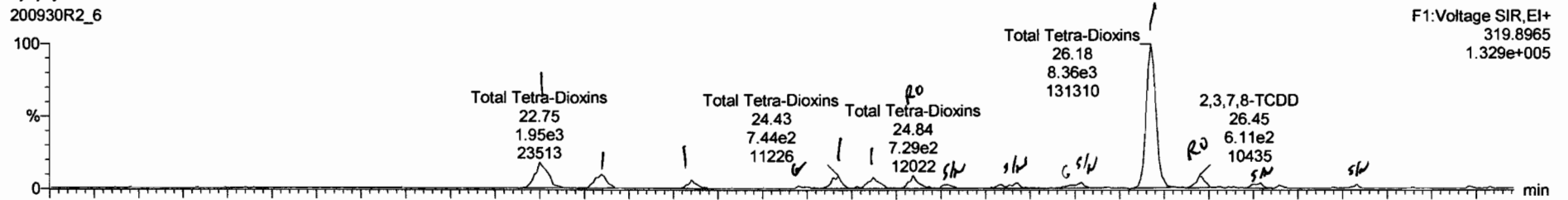
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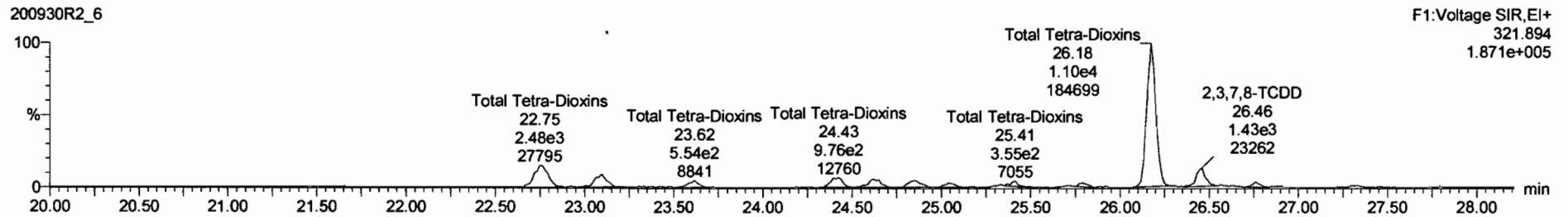
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**2,3,7,8-TCDD**

200930R2\_6

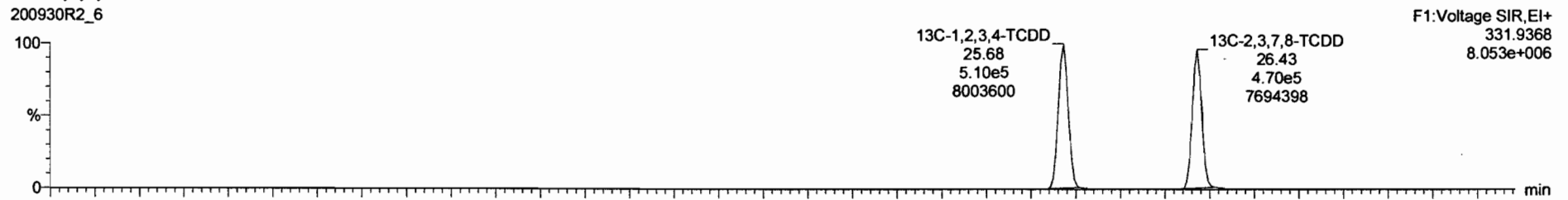


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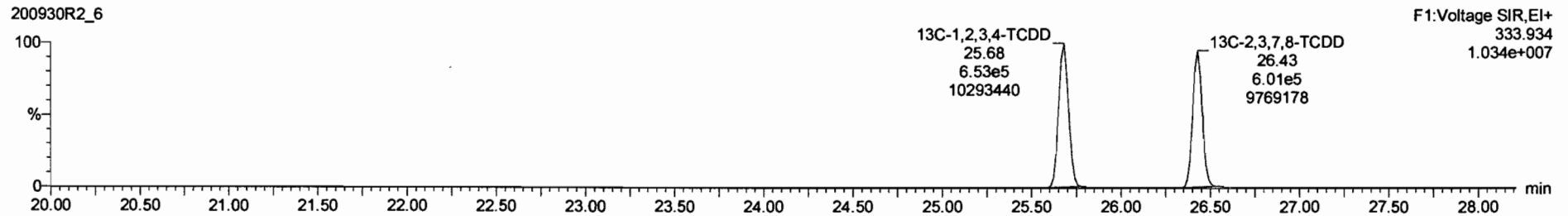


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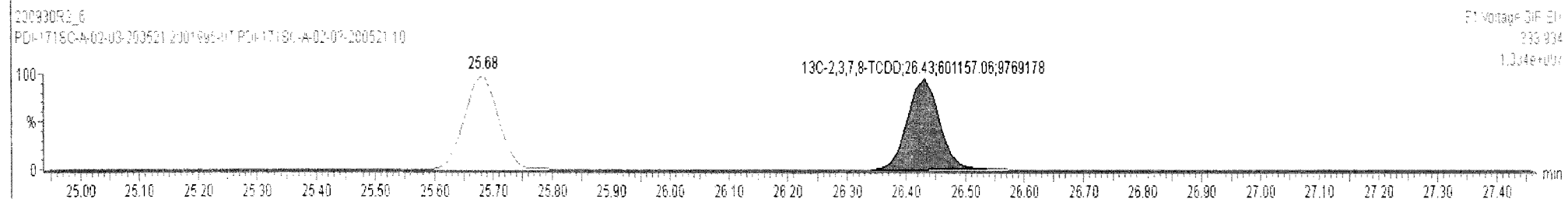
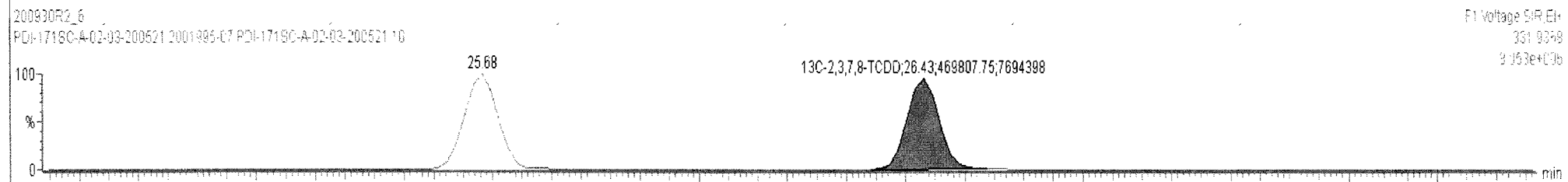
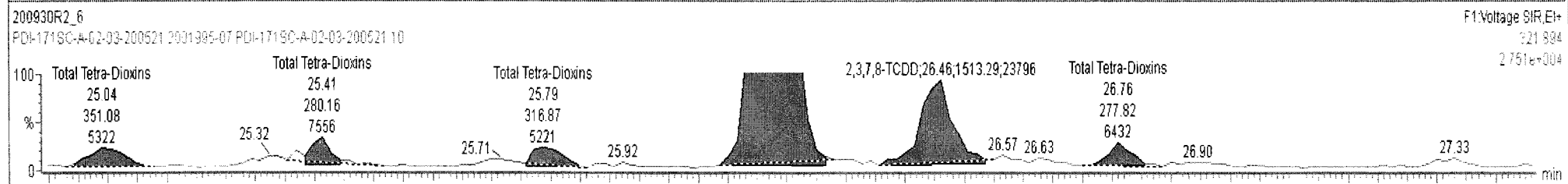
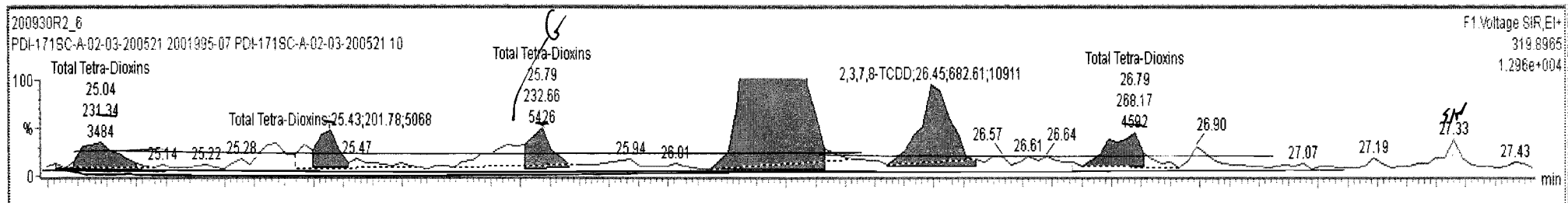
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200930R2\_6 - 2001995-07-PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	w/wol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.050			5.86		0.0378	6.46
40 Total Penta-Dioxins				0.9561	10.050			5.82		0.0724	5.98
41 Total Hexa-Dioxins				0.8879	10.050			28.9		0.1631	29.5

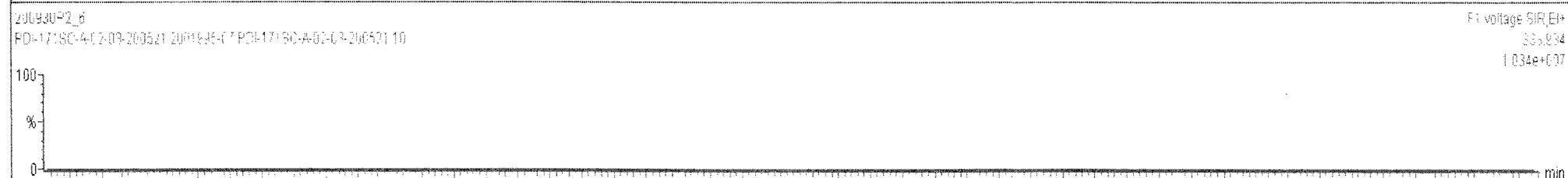
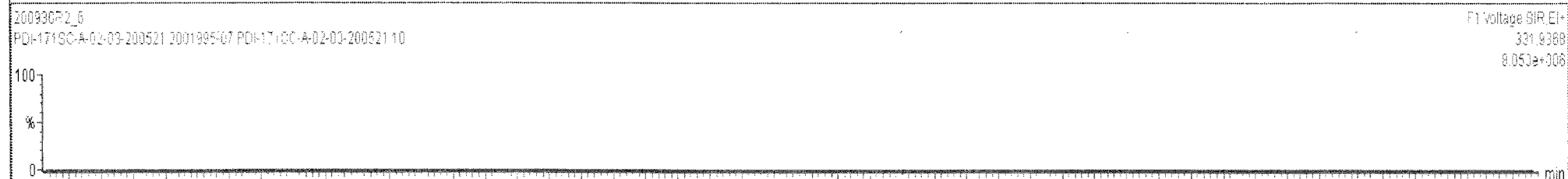
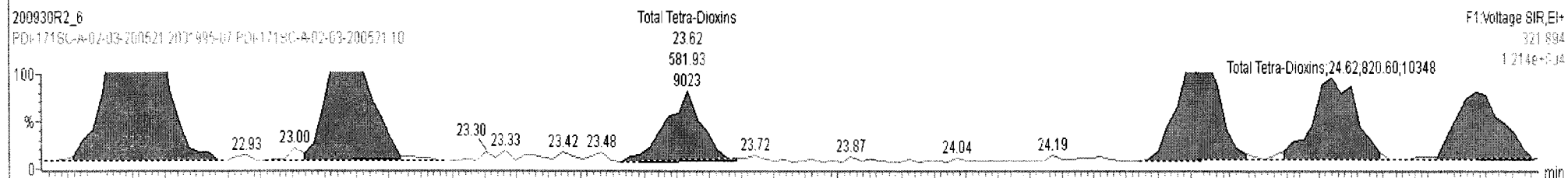
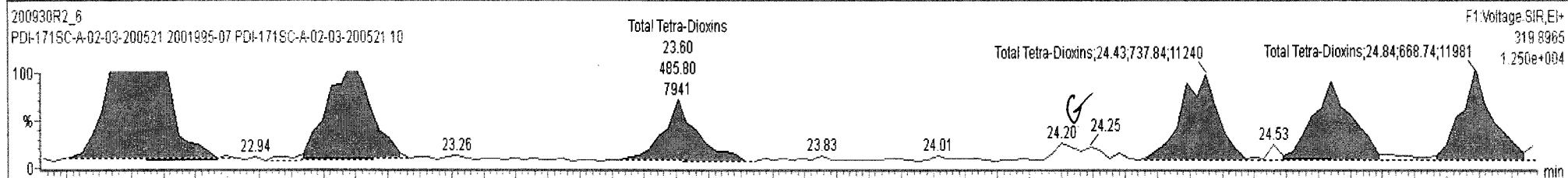
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.75	1.969e3	2.476e3	0.80	NO	0.81309	0.81309
2 Total Tetra-Dioxins	23.09	9.583e2	1.189e3	0.81	NO	0.39265	0.39265
3 Total Tetra-Dioxins	23.60	4.858e2	5.819e2	0.83	NO	0.19528	0.19528
4 Total Tetra-Dioxins	24.43	7.278e2	0.857e2	0.76	NO	0.24157	0.24157



200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.050			5.86		0.0378	6.46
40 Total Penta-Dioxins				0.9561	10.050			5.82		0.0724	5.98
41 Total Hexa-Dioxins				0.8879	10.050			28.91		0.1631	28.51

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.75	1.959e3	2.476e3	0.80	NO	0.81309	0.81309
2 Total Tetra-Dioxins	23.09	9.583e2	1.189e3	0.81	NO	0.39265	0.39265
3 Total Tetra-Dioxins	23.60	4.858e2	5.819e2	0.83	NO	0.19528	0.19528
4 Total Tetra-Dioxins	24.43	7.378e2	6.657e2	0.76	NO	0.34457	0.34457





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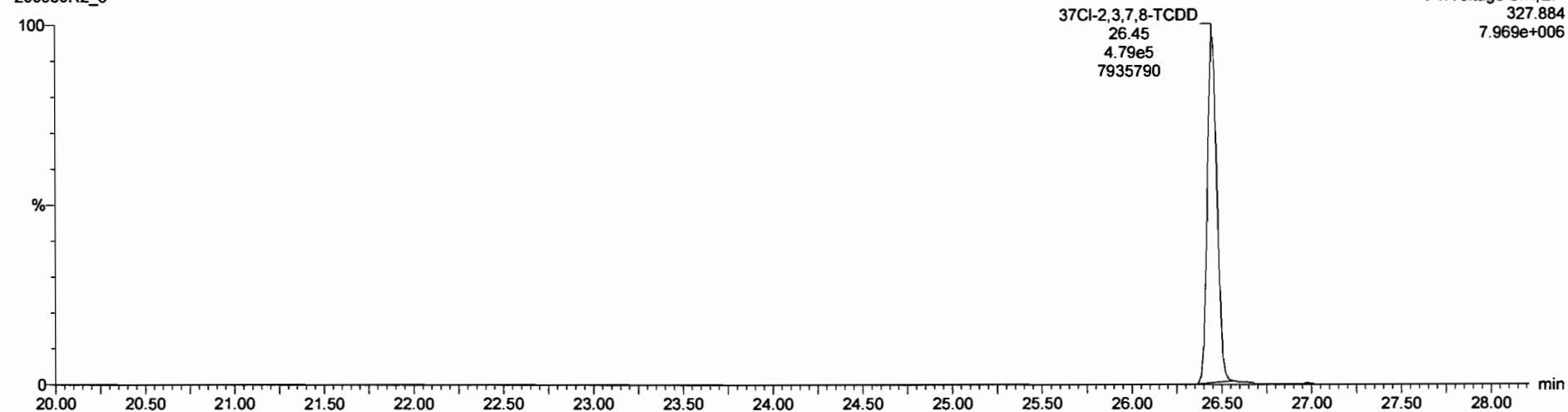
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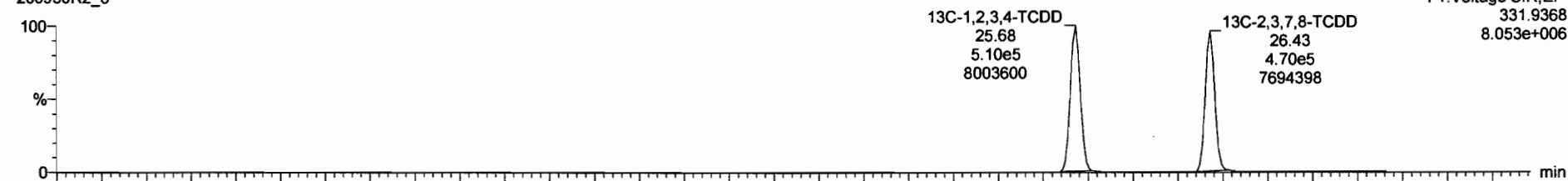
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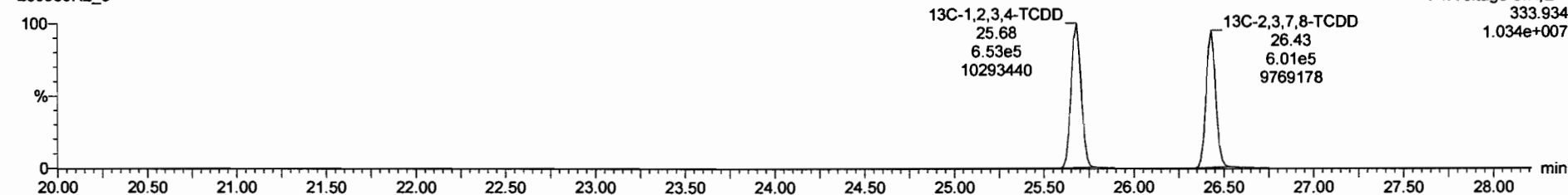


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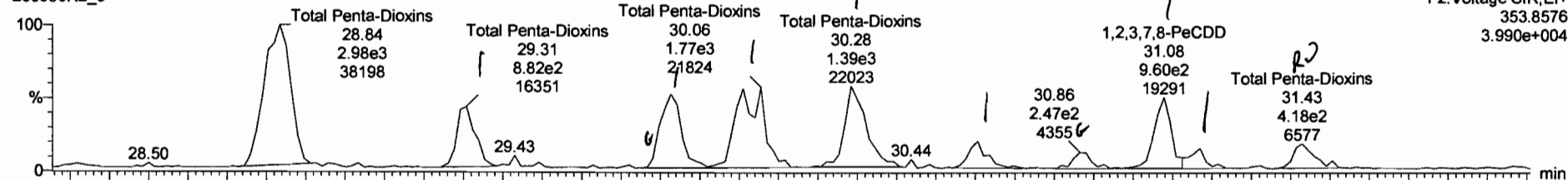
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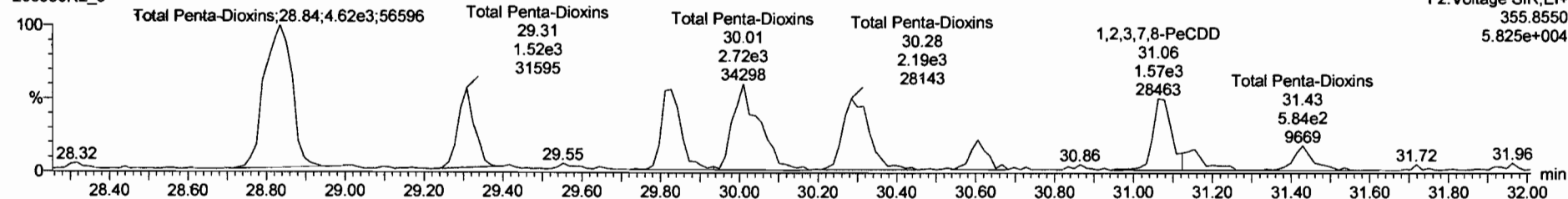
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1,2,3,7,8-PeCDD

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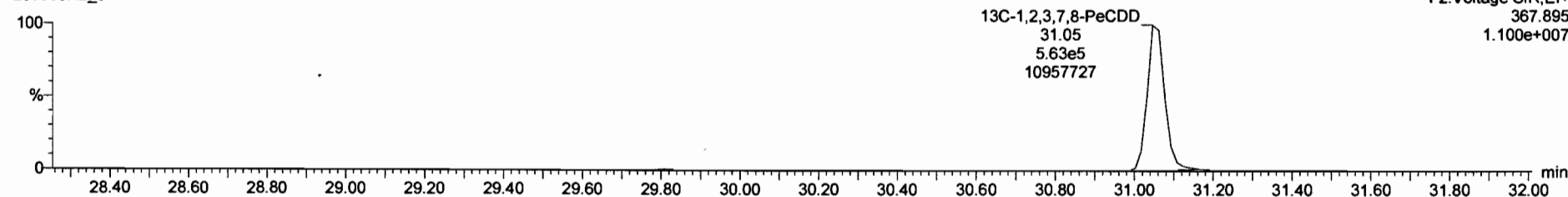


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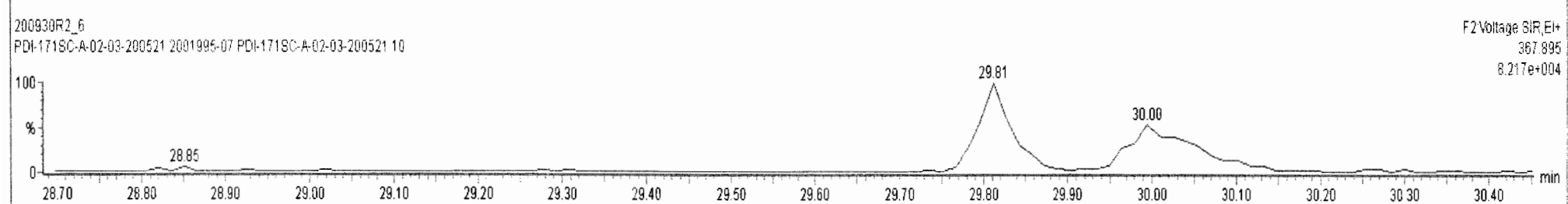
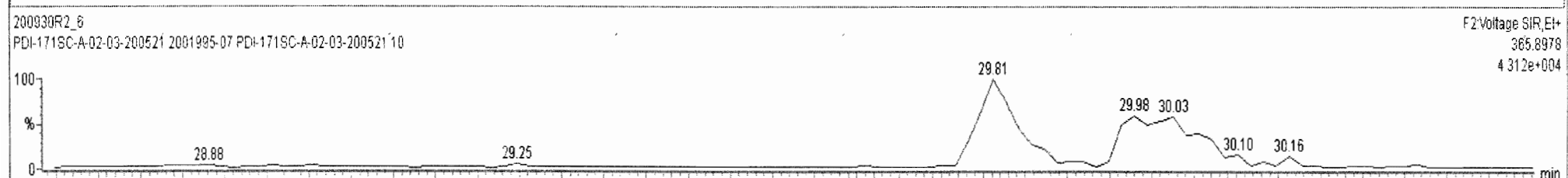
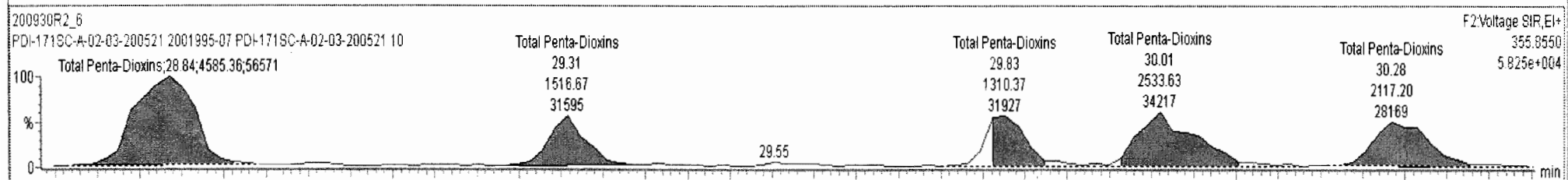
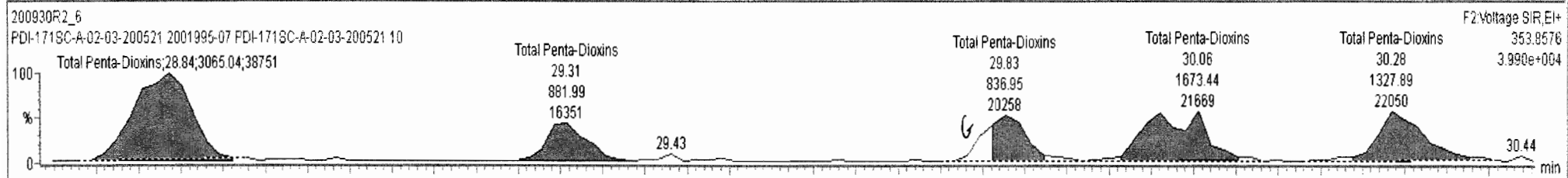
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200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.050			5.56		0.0378	6.08
40 Total Penta-Dioxins				0.9561	10.050			5.42		0.0720	5.60
41 Total Hexa-Dioxins				0.8879	10.050			28.91		0.1631	28.51

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.84	3.065e3	4.585e3	0.67	NO	1.7423	1.7423
2 Total Penta-Dioxins	29.31	8.820e2	1.517e3	0.58	NO	0.54626	0.54626
3 Total Penta-Dioxins	29.83	8.370e2	1.310e3	0.64	NO	0.48902	0.48902
4 Total Penta-Dioxins	30.06	1.673e3	2.534e3	0.66	NO	0.95809	0.95809

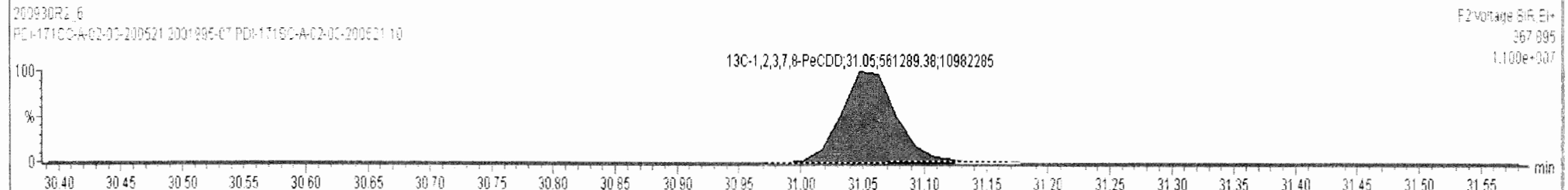
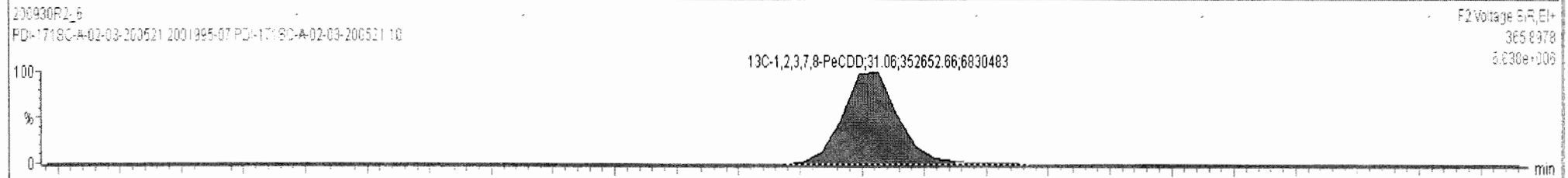
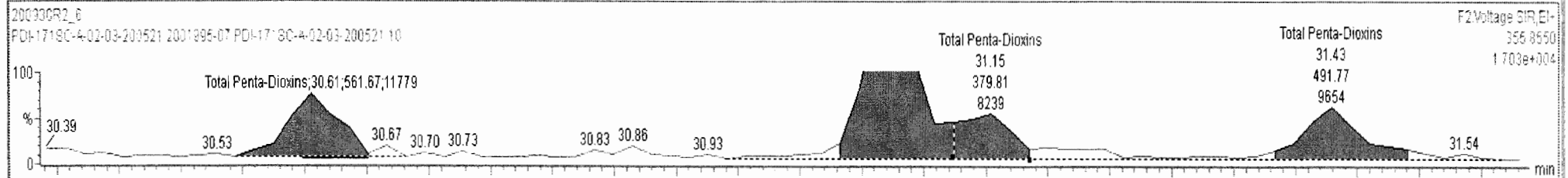
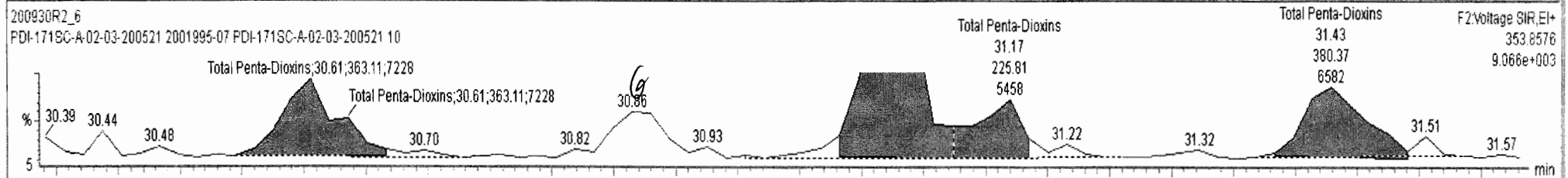




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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.050			5.56		0.0378	6.08
40 Total Penta-Dioxins				0.9561	10.050			5.42		0.0720	5.60
41 Total Hexa-Dioxins				0.8879	10.050			28.91		0.1631	29.51

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
6 Total Penta-Dioxins	30.61	3.631e2	5.617e2	0.65	NO	0.21060	0.21060
7 1,2,3,7,8-PeCDD	31.08	9.114e2	1.500e3	0.61	NO	0.54913	0.54913
8 Total Penta-Dioxins	31.17	2.258e2	3.798e2	0.59	NO	0.13792	0.13792
9 Total Penta-Dioxins	31.43	3.804e2	4.918e2	0.77	YES	0.18255	0.00000



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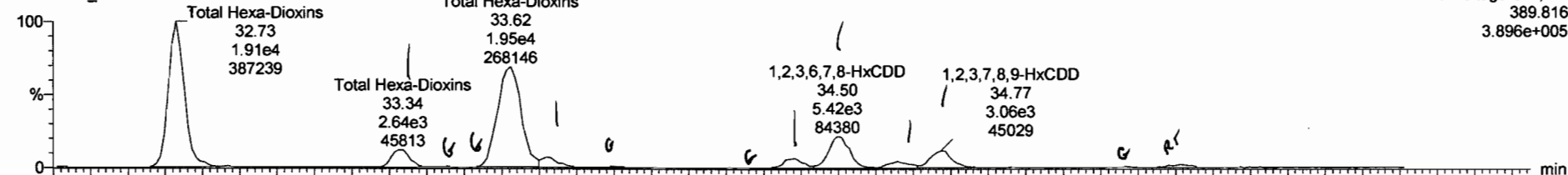
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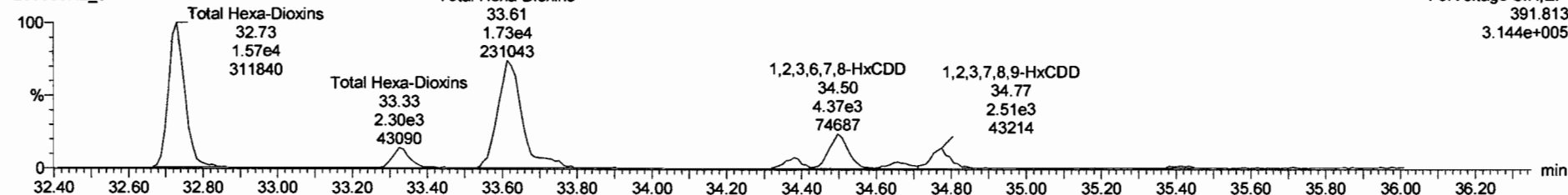
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1,2,3,4,7,8-HxCDD

200930R2\_6

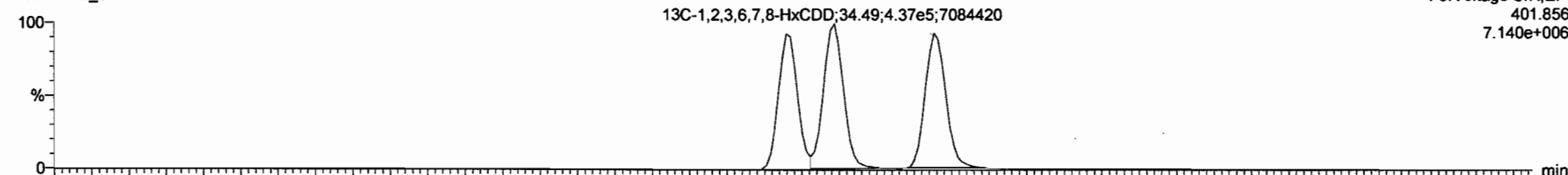


200930R2\_6

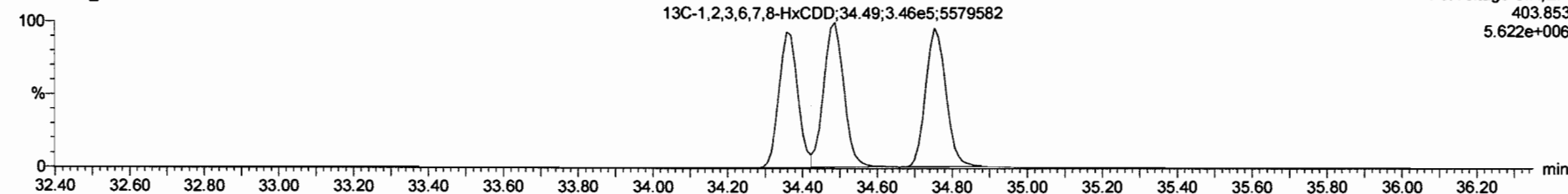


13C-1,2,3,4,7,8-HxCDD

200930R2\_6



200930R2\_6

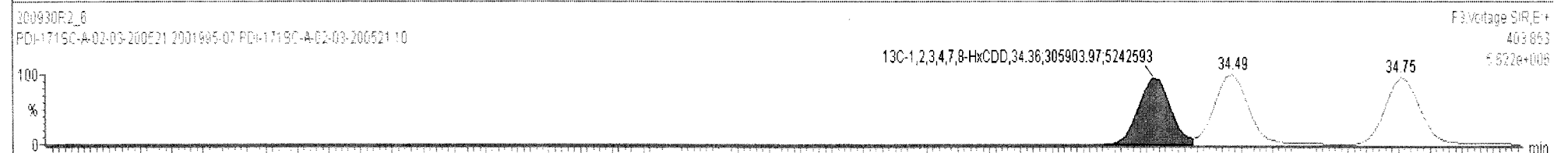
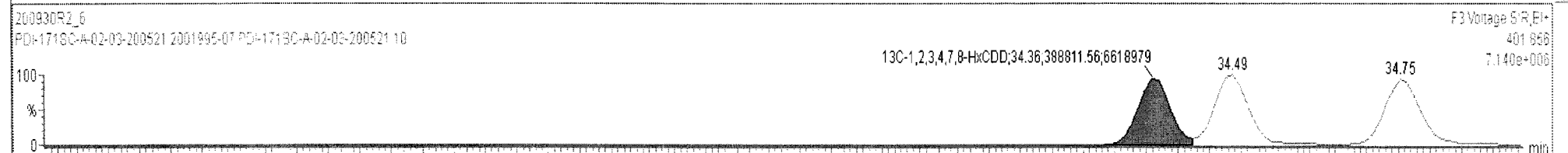
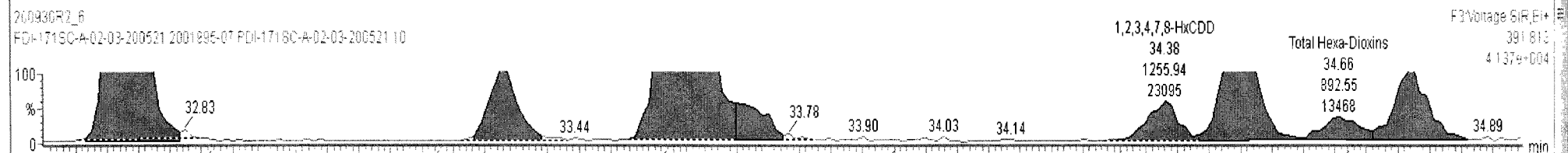
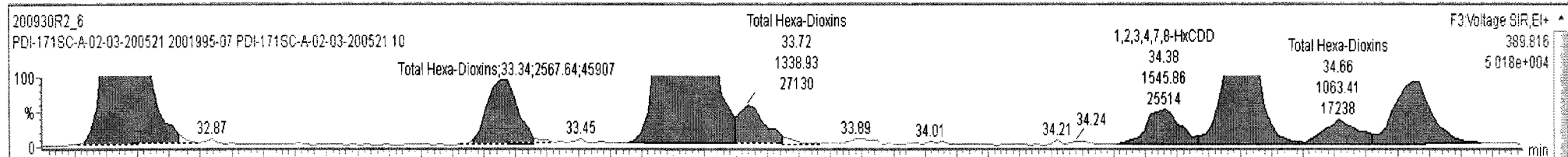




200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	rvy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.050			5.56		0.0378	6.08
40 Total Penta-Dioxins				0.9561	10.050			5.42		0.0720	5.60
41 Total Hexa-Dioxins				0.8879	10.050			29.2		0.163	29.2

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Hexa-Dioxins	32.73	1.903e4	1.566e4	1.21	NO	10.482	10.482
2 Total Hexa-Dioxins	33.34	2.588e3	2.215e3	1.16	NO	1.4443	1.4443
3 Total Hexa-Dioxins	33.62	1.948e4	1.610e4	1.21	NO	10.743	10.743
4 Total Hexa-Dioxins	33.72	1.339e3	1.133e3	1.18	NO	0.74660	0.74660
5 1,2,3,4,7,8-HxCDD	34.38	1.546e3	1.256e3	1.23	NO	0.80121	0.80121
6 1,2,3,6,7,8-HxCDD	34.50	5.419e3	4.374e3	1.24	NO	2.8033	2.8033
7 Total Hexa-Dioxins	34.66	1.063e3	8.926e2	1.19	NO	0.59064	0.59064
8 1,2,3,7,8,9-HxCDD	34.77	3.061e3	2.509e3	1.22	NO	1.6274	1.6274



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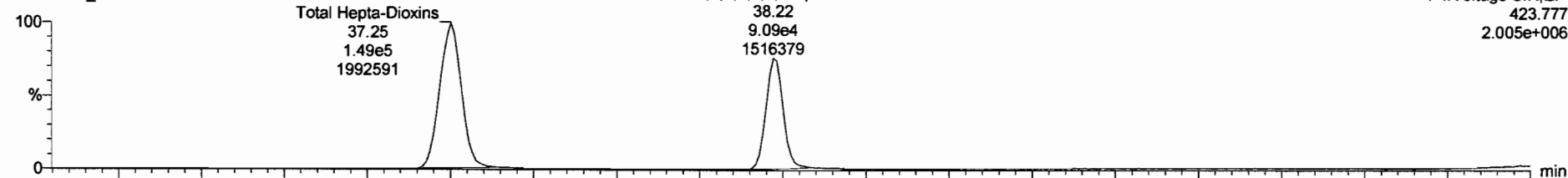
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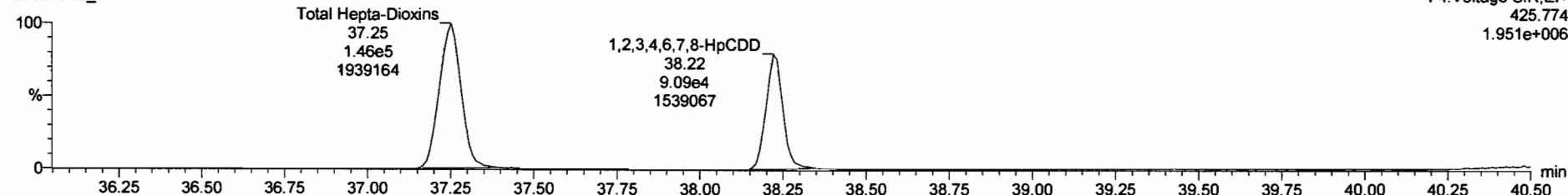
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1,2,3,4,6,7,8-HpCDD

200930R2\_6

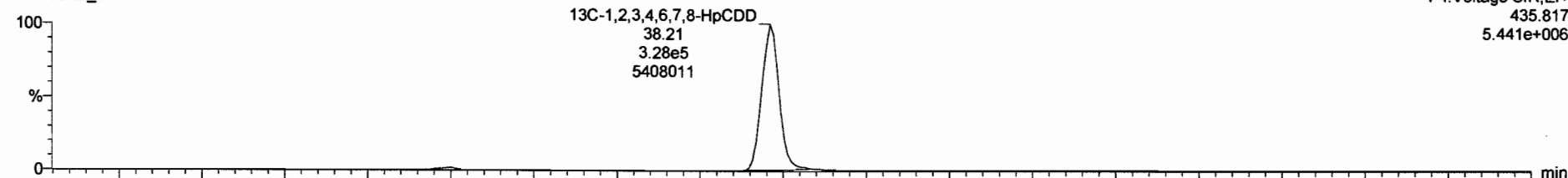


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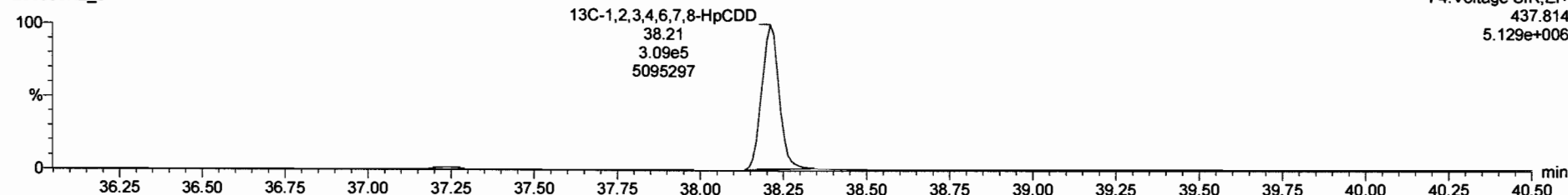


13C-1,2,3,4,6,7,8-HpCDD

200930R2\_6



200930R2\_6



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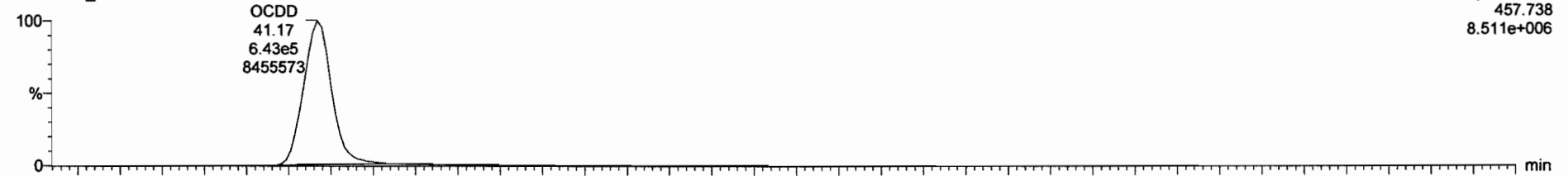
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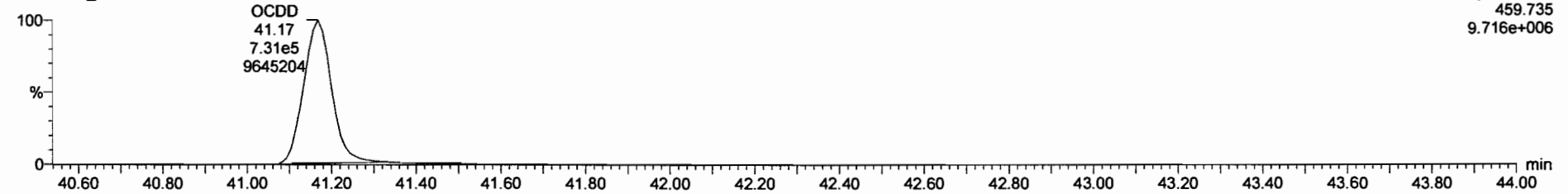
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**OCDD**

200930R2\_6

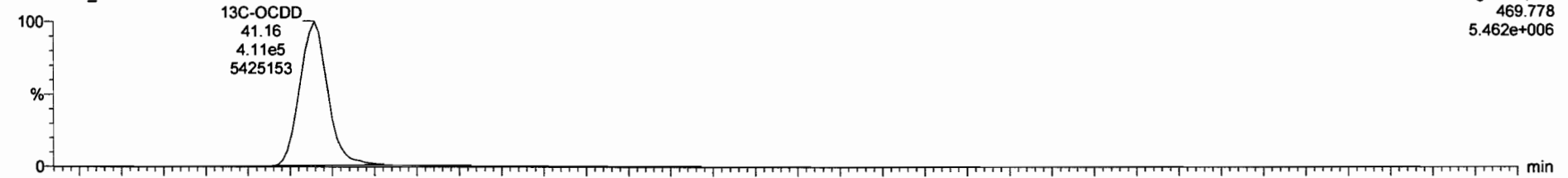


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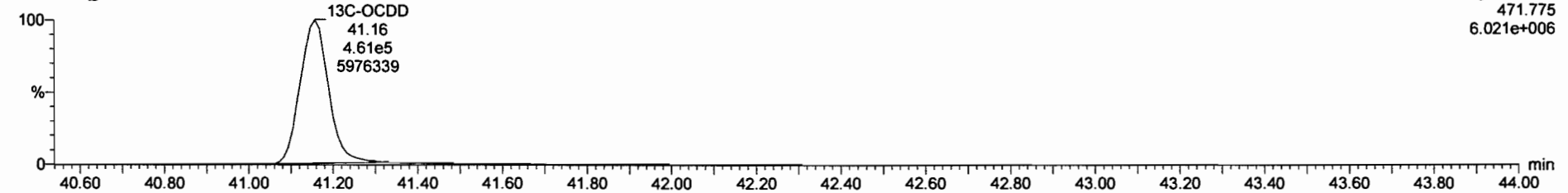


**13C-OCDD**

200930R2\_6



200930R2\_6



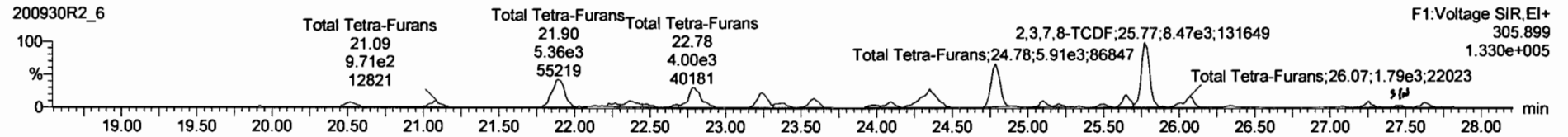
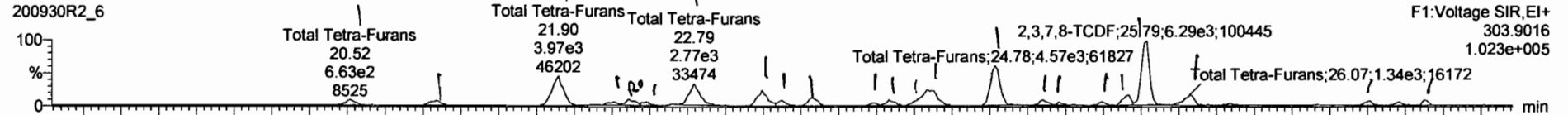


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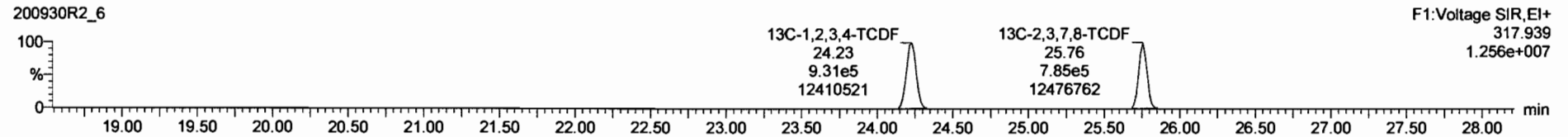
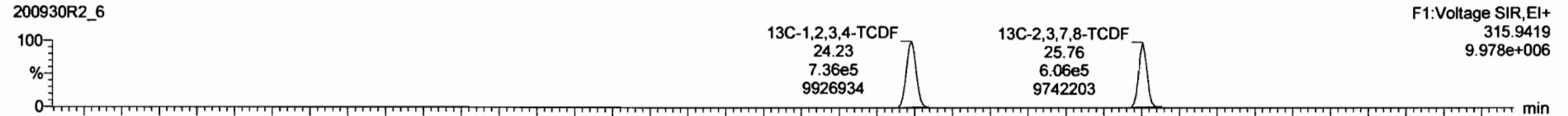
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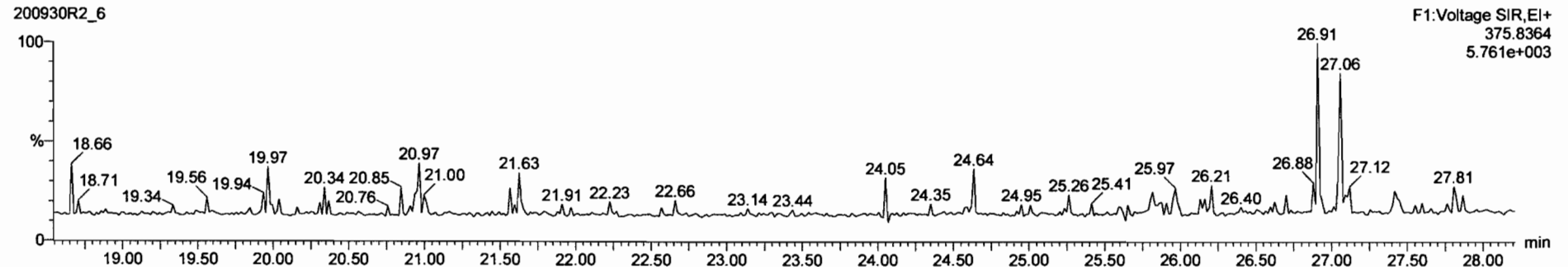
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**13C-2,3,7,8-TCDF**



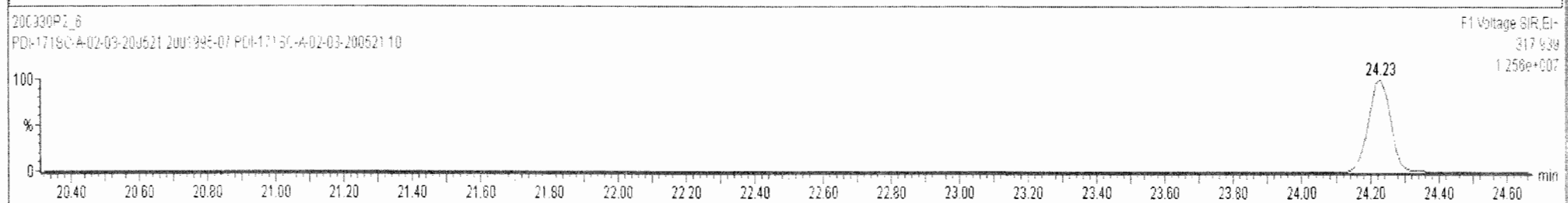
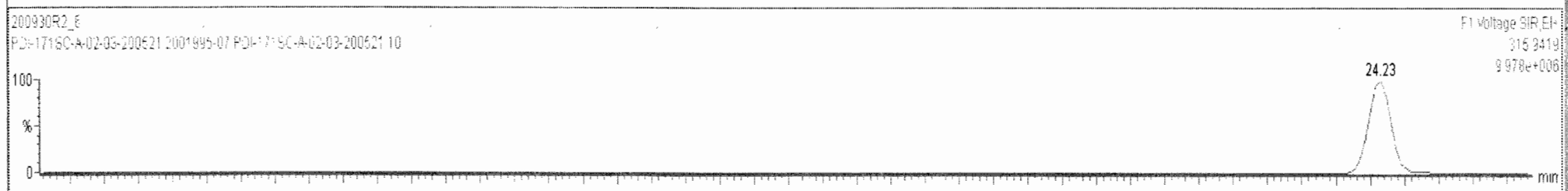
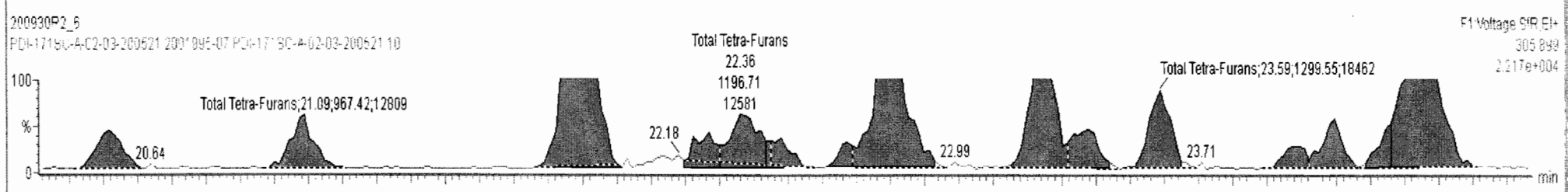
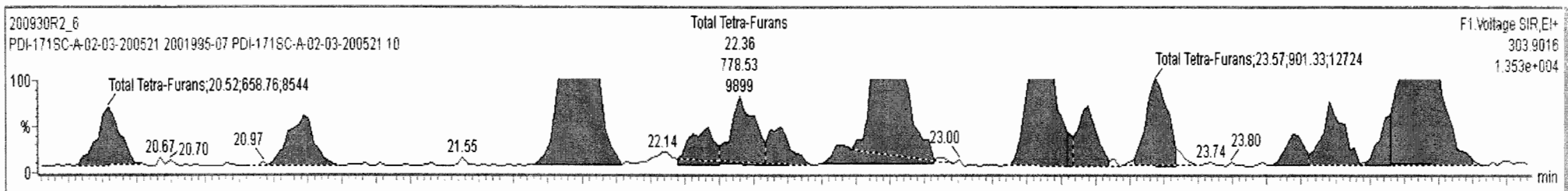
**DPE1**



200930R2\_6 - 2001995-07 PDI-1715C-A-02-03-200521 10 - PDI-1715C-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.050			14.5		0.0640	14.9
44 1st Func. Penta-Furans				0.9386	10.050			5.24		0.0176	5.24
45 Total Penta-Furans				0.9386	10.050			10.7		0.0895	11.1

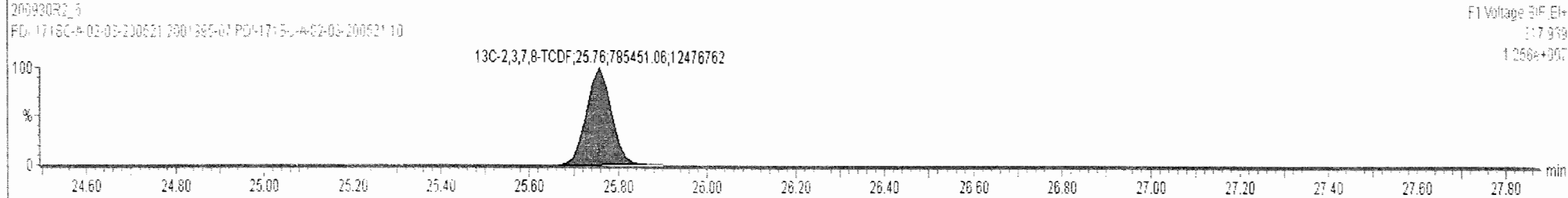
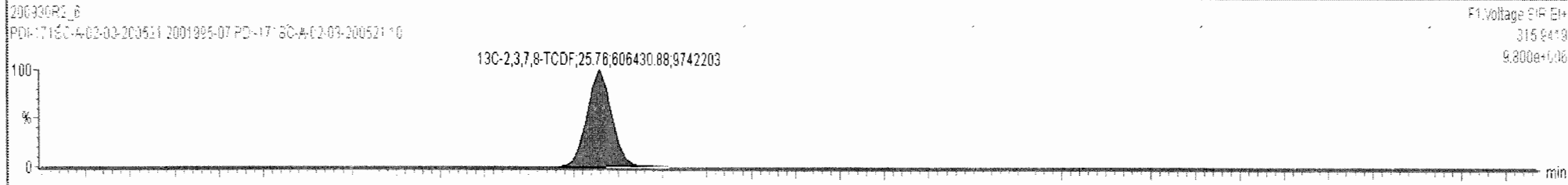
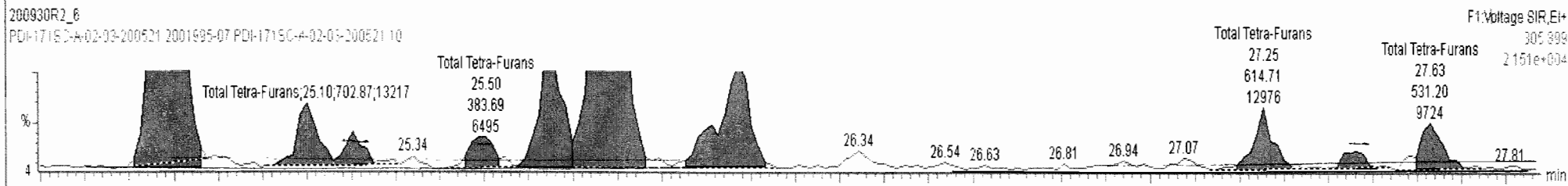
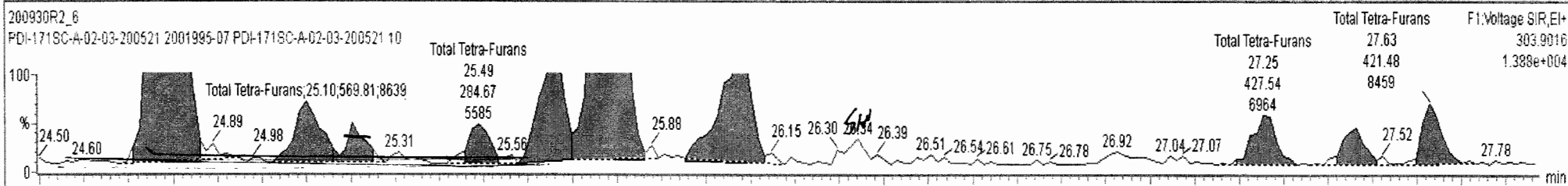
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.52	6.588e2	7.754e2	0.85	NO	0.27885	0.27885
2 Total Tetra-Furans	21.09	6.503e2	9.674e2	0.67	NO	0.31454	0.31454
3 Total Tetra-Furans	21.90	3.969e3	5.443e3	0.73	NO	1.8302	1.8302
4 Total Tetra-Furans	22.27	4.332e2	5.707e2	0.76	NO	0.19521	0.19521



200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans			0.7353	10.050			14.5		0.0640	14.9
44	1st Func. Penta-Furans			0.9386	10.050			5.24		0.0176	5.24
45	Total Penta-Furans			0.9386	10.050			11.71		0.0985	11.71

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Tetra-Furans	20.52	6.588e2	7.754e2	0.85	NO	0.27885	0.27885
2	Total Tetra-Furans	21.09	6.503e2	9.674e2	0.67	NO	0.31454	0.31454
3	Total Tetra-Furans	21.90	3.969e3	5.443e3	0.73	NO	1.8302	1.8302



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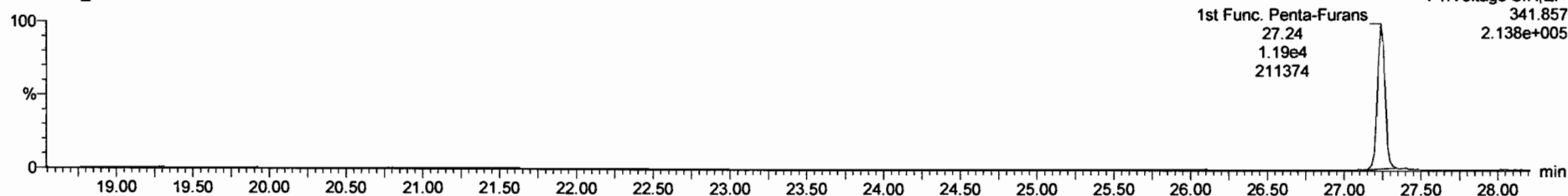
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1st Func. Penta-Furans

200930R2\_6

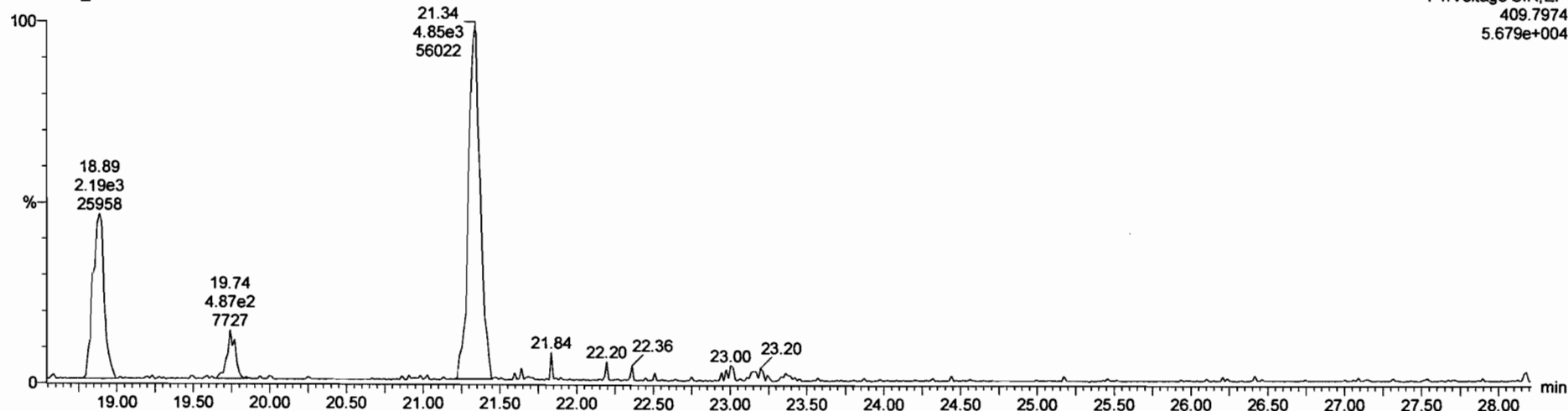


200930R2\_6



DPE6

200930R2\_6



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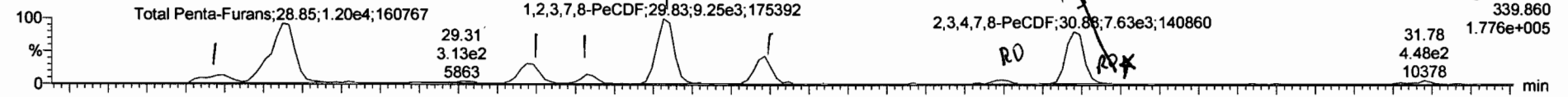
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*July 10-22-2020*

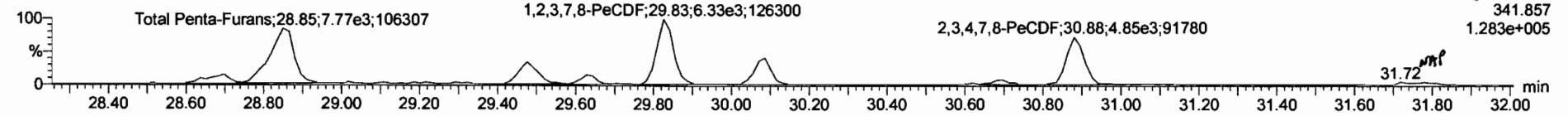
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**1,2,3,7,8-PeCDF**

200930R2\_6

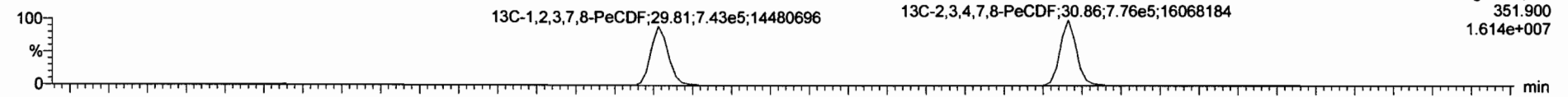


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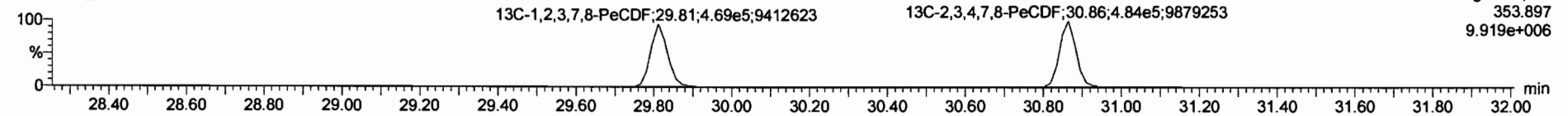


**13C-1,2,3,7,8-PeCDF**

200930R2\_6

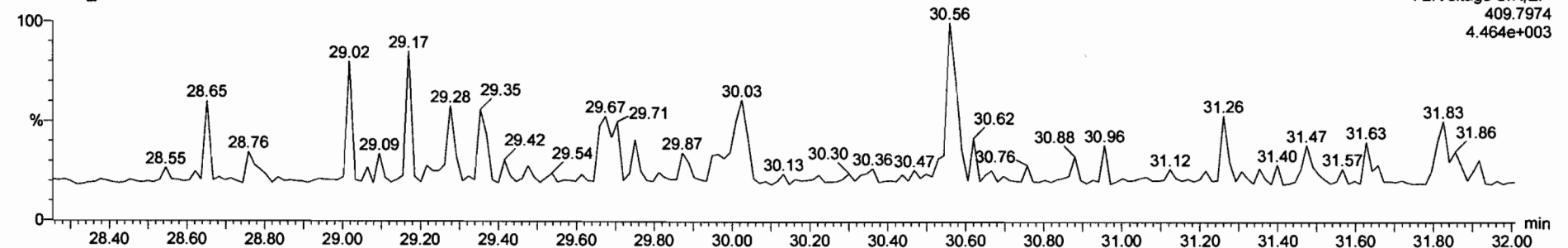


200930R2\_6



**DPE2**

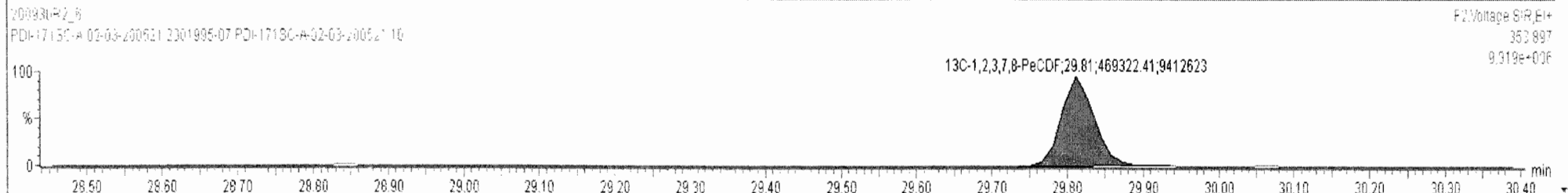
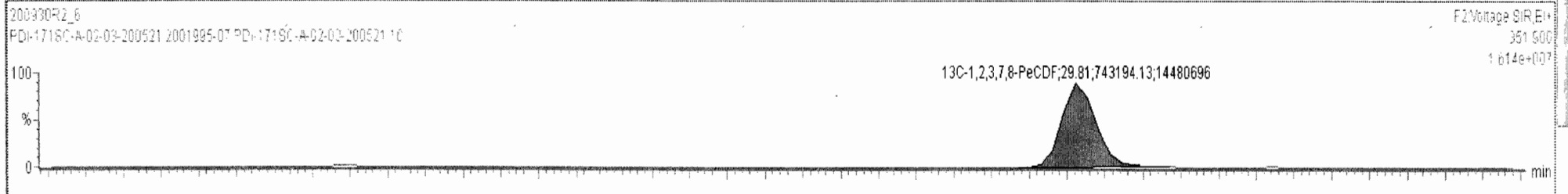
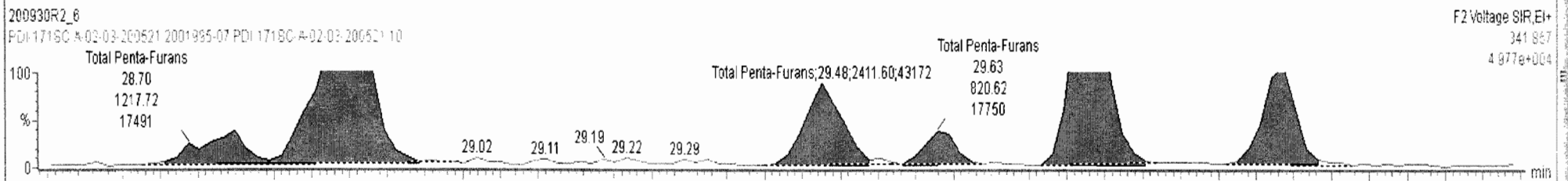
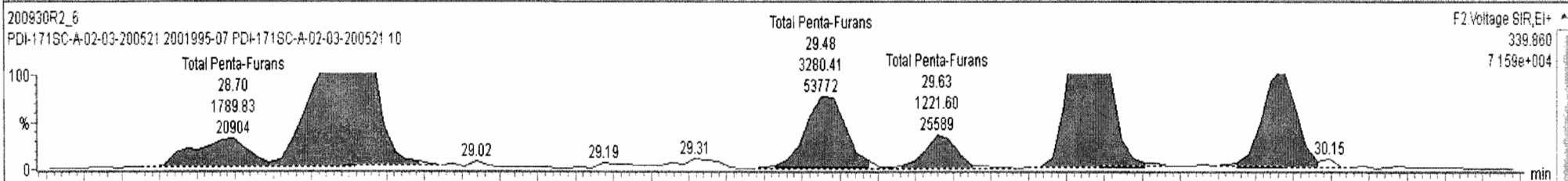
200930R2\_6



200930R2\_6 - 2001995-07-PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	nly	RF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.050			10.7		0.0985	11.1
46 Total Hexa-Furans				0.8699	10.050			25.8		0.0743	25.8
47 Total Hepta-Furans				0.8908	10.050			38.7		0.165	39.0

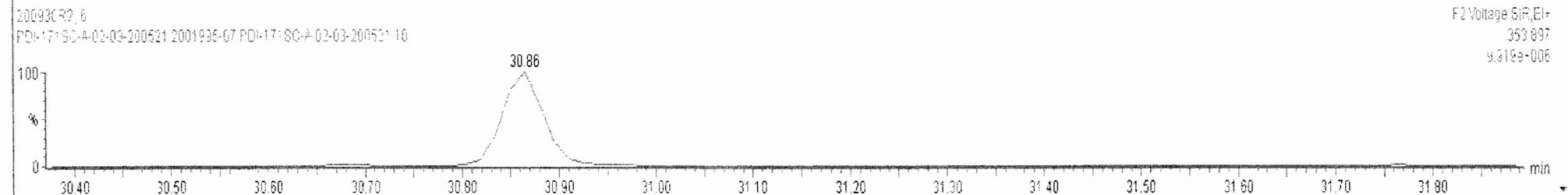
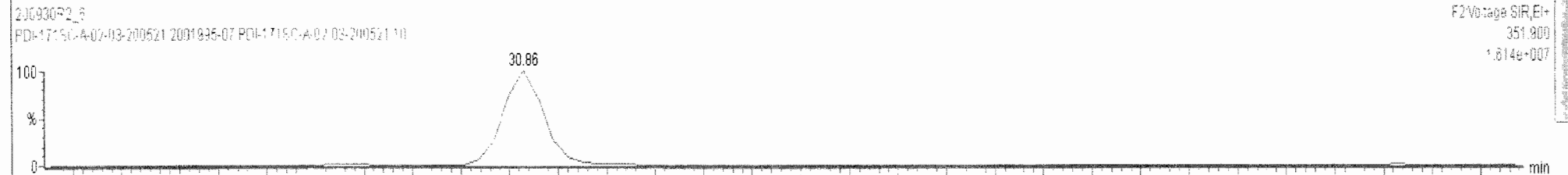
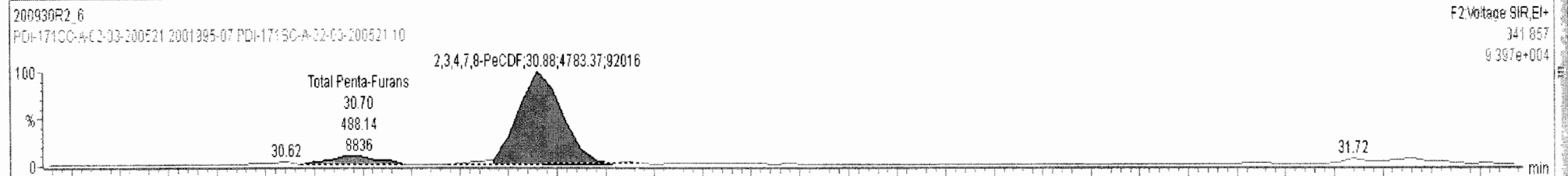
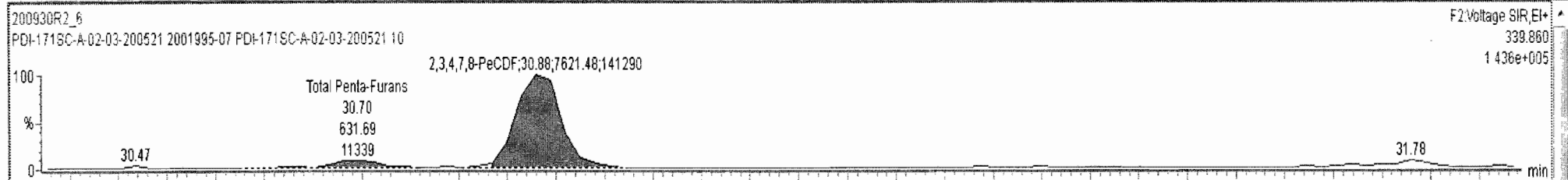
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.70	1.790e3	1.218e3	1.47	NO	0.51587	0.51587
2 Total Penta-Furans	28.85	1.196e4	7.751e3	1.54	NO	3.3812	3.3812
3 Total Penta-Furans	29.48	3.280e3	2.412e3	1.36	NO	0.97631	0.97631
4 Total Penta-Furans	29.63	1.222e3	8.206e2	1.49	NO	0.35029	0.35029



200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.050			10.9		0.0985	11.1
46 Total Hexa-Furans				0.8699	10.050			25.7		0.0743	25.7
47 Total Hepta-Furans				0.8908	10.050			38.9		0.165	38.9

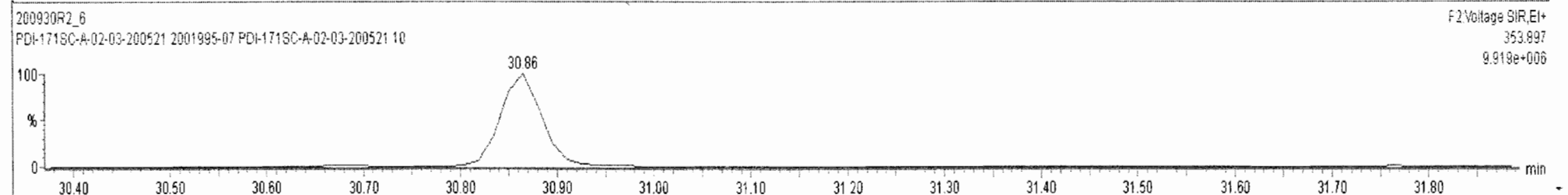
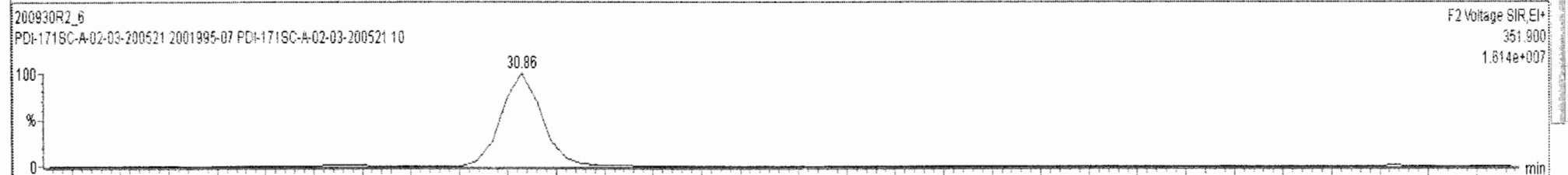
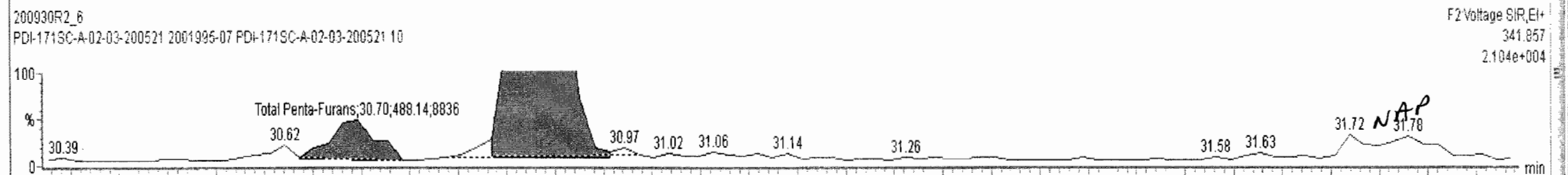
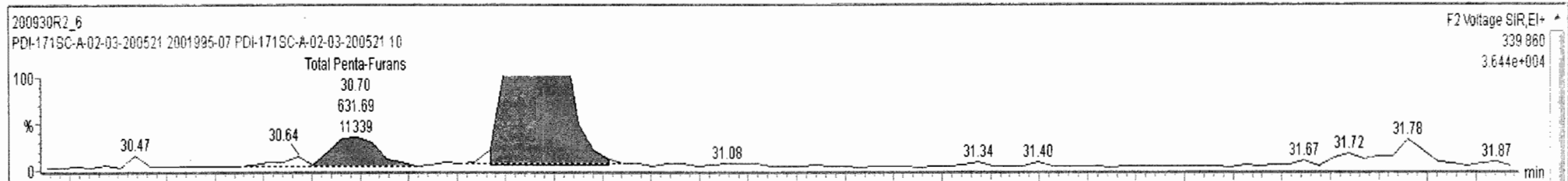
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.70	1.790e3	1.218e3	1.47	NO	0.51587	0.51587
2 Total Penta-Furans	28.85	1.196e4	7.751e3	1.54	NO	3.3812	3.3812
3 Total Penta-Furans	29.48	3.280e3	2.412e3	1.36	NO	0.97631	0.97631



200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.050			10.9		0.0985	11.1
46 Total Hexa-Furans				0.8699	10.050			25.7		0.0743	25.7
47 Total Hepta-Furans				0.8908	10.050			38.9		0.165	38.9

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.70	1.790e3	1.218e3	1.47	NO	0.51587	0.51587
2 Total Penta-Furans	28.85	1.196e4	7.751e3	1.54	NO	3.3812	3.3812
3 Total Penta-Furans	29.48	3.280e3	2.412e3	1.36	NO	0.97631	0.97631





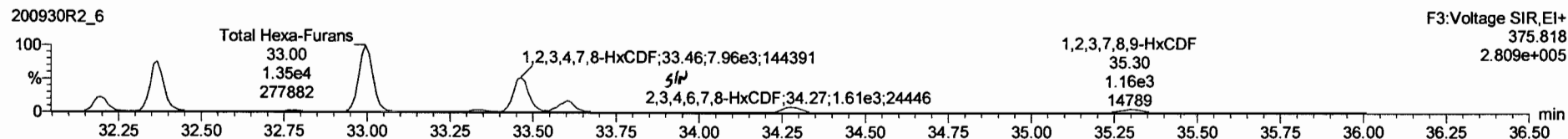
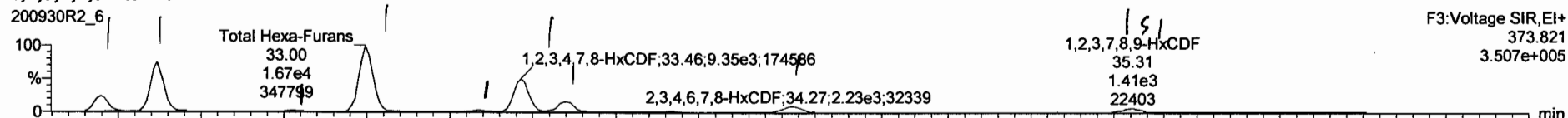
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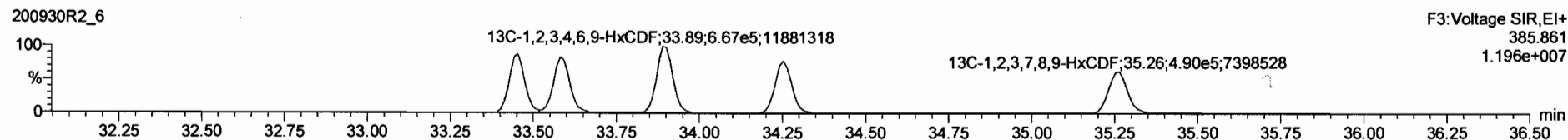
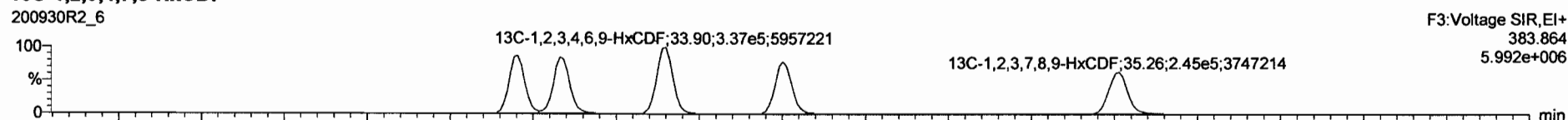
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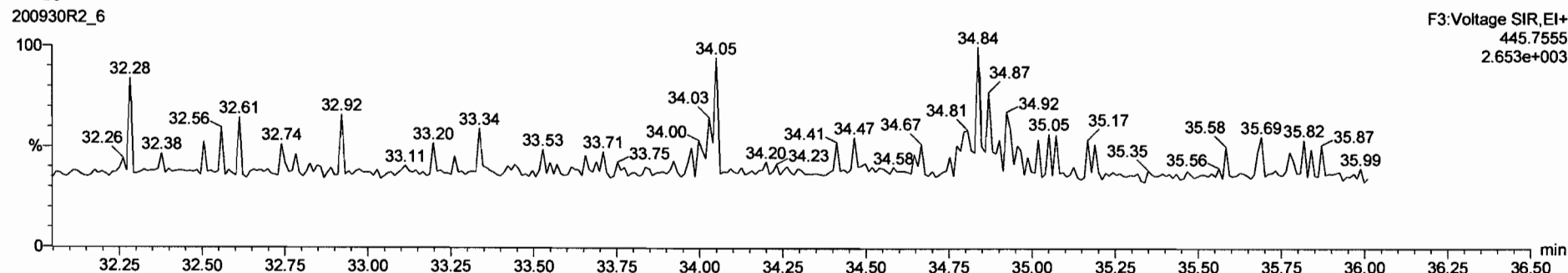
**1,2,3,4,7,8-HxCDF**

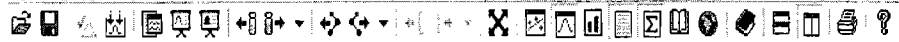


**13C-1,2,3,4,7,8-HxCDF**



**DPE3**

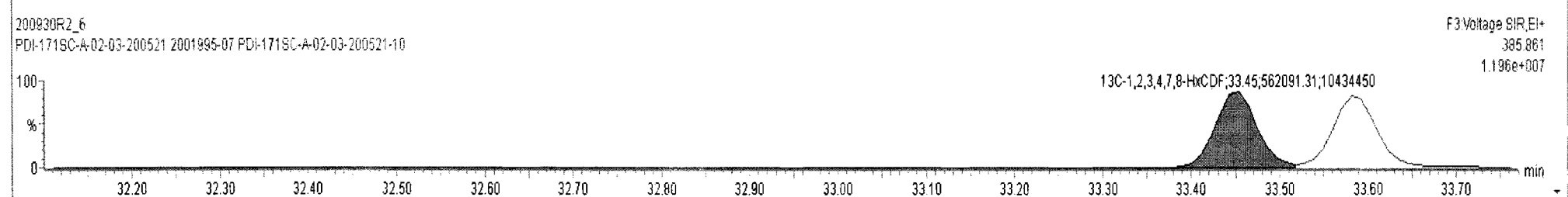
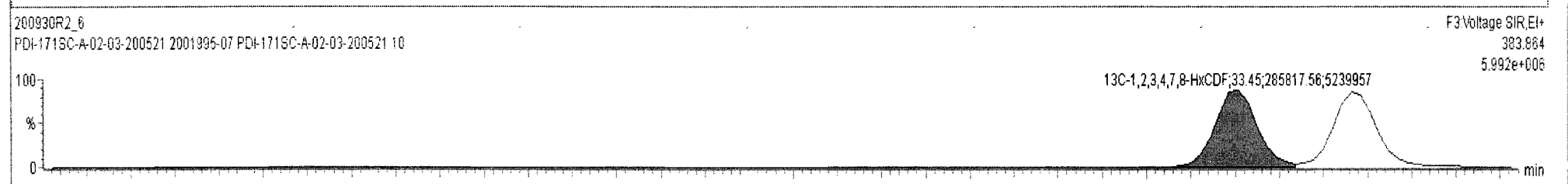
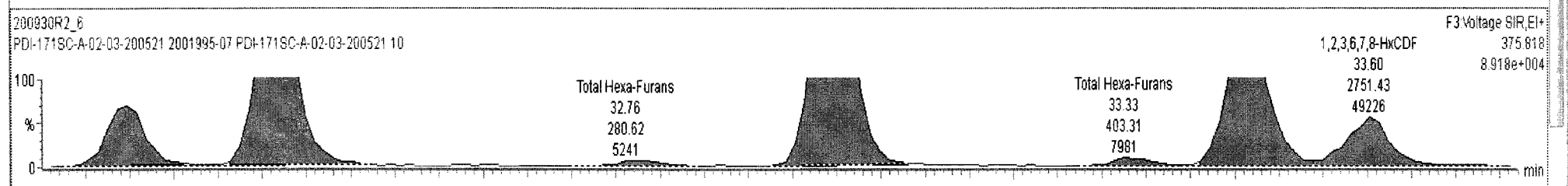
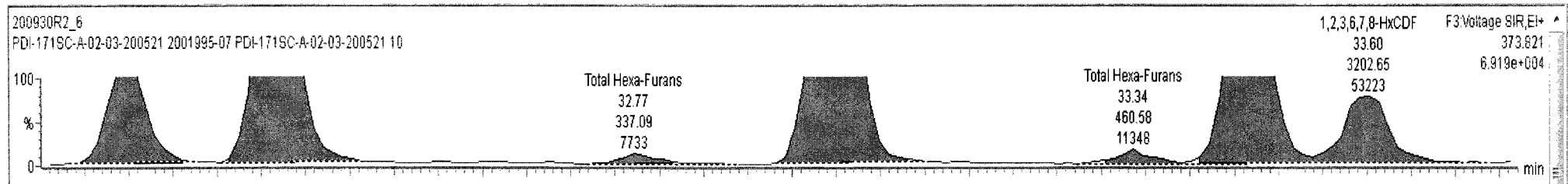




200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.050			10.7		0.0985	11.1
46 Total Hexa-Furans				0.8599	10.050			25.7		0.0743	25.7
47 Total Hepta-Furans				0.8908	10.050			38.7		0.1651	38.0

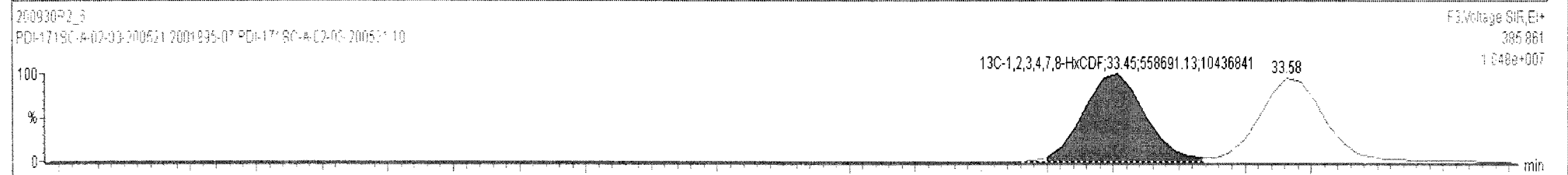
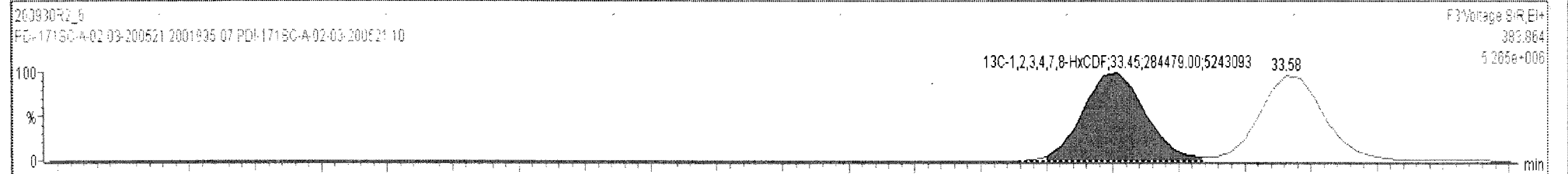
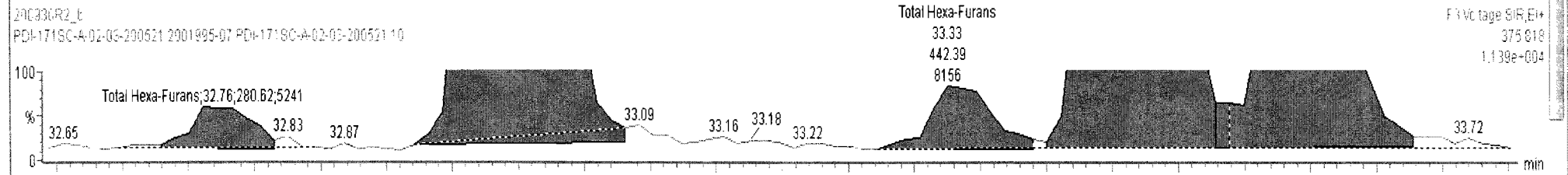
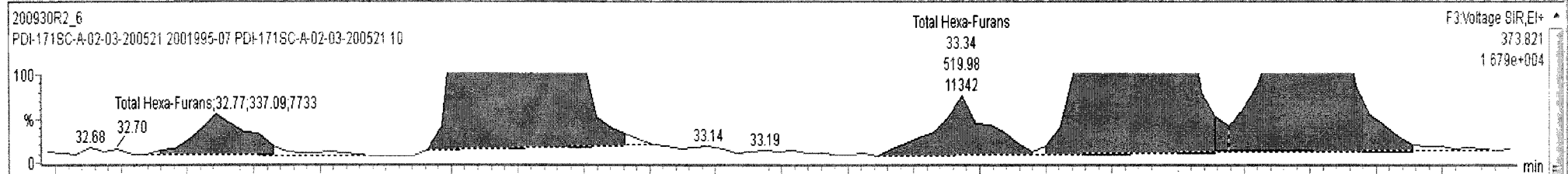
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	4.020e3	2.979e3	1.35	NO	1.9808	1.9808
2 Total Hexa-Furans	32.37	1.223e4	1.023e4	1.19	NO	6.3562	6.3562
3 Total Hexa-Furans	32.77	3.371e2	2.806e2	1.20	NO	0.17482	0.17482
4 Total Hexa-Furans	33.00	1.672e4	1.363e4	1.23	NO	8.5882	8.5882
5 Total Hexa-Furans	33.34	4.816e2	4.033e2	1.14	NO	0.24449	0.24449



200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.050			10.7		0.0985	11.1
46 Total Hexa-Furans				0.8699	10.050			25.8		0.0743	25.8
47 Total Hexa-Furans				0.8908	10.050			38.7		0.165	38.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	4.020e3	2.979e3	1.35	NO	1.9837	1.9837
2 Total Hexa-Furans	32.37	1.223e4	1.023e4	1.19	NO	6.3655	6.3655
3 Total Hexa-Furans	32.77	3.371e2	2.806e2	1.20	NO	0.17507	0.17507
4 Total Hexa-Furans	33.00	1.672e4	1.363e4	1.23	NO	8.6008	8.6008
5 Total Hexa-Furans	33.34	5.200e2	4.424e2	1.18	NO	0.27276	0.27276

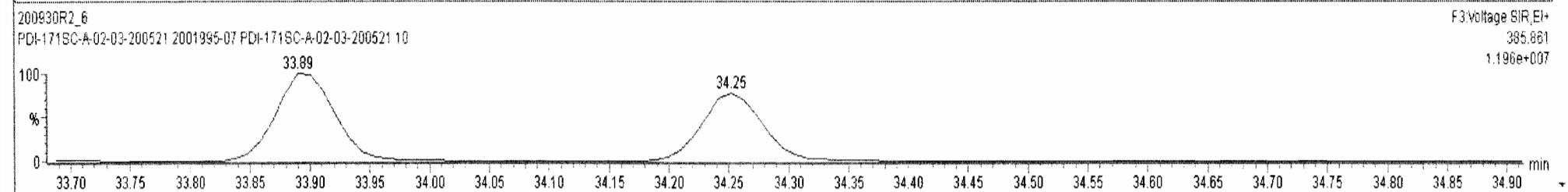
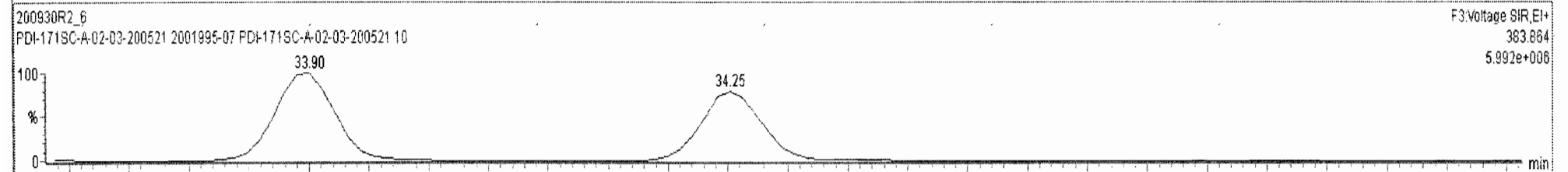
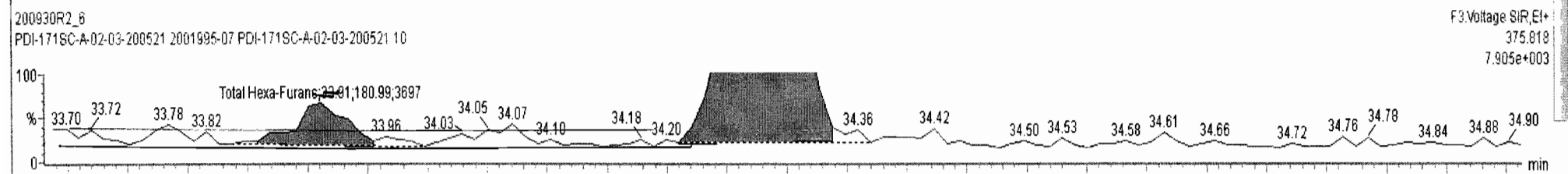
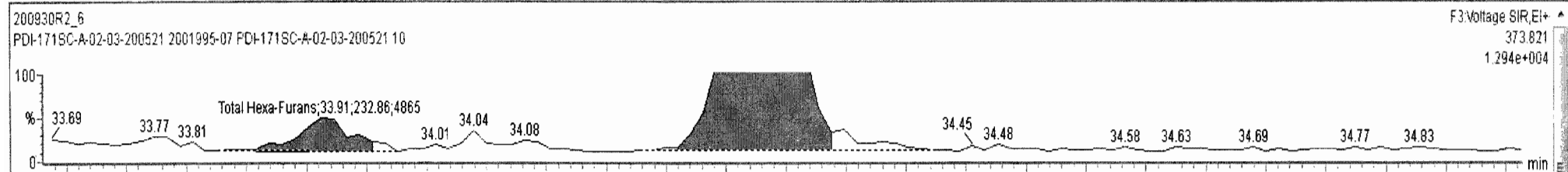


Remarks

200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.050			10.7		0.0985	11.1
46 Total Hexa-Furans				0.8699	10.050			25.7		0.0743	25.7
47 Total Hepta-Furans				0.8908	10.050			38.7		0.165	39.0

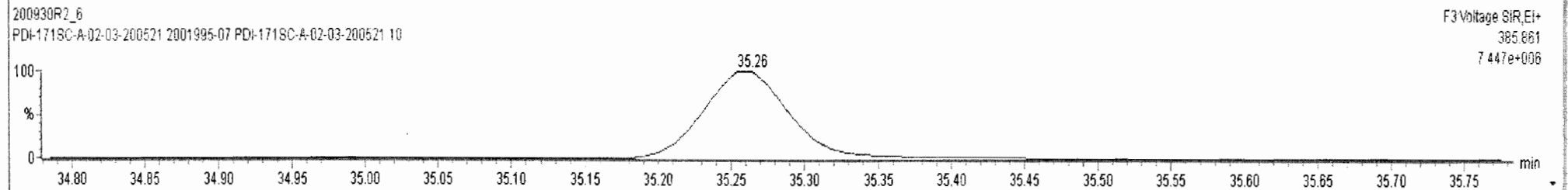
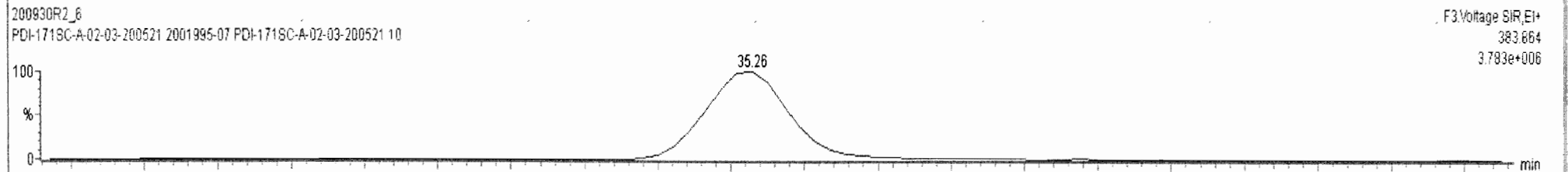
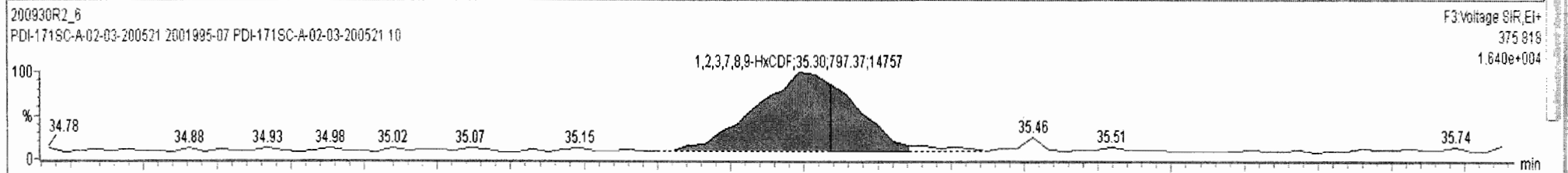
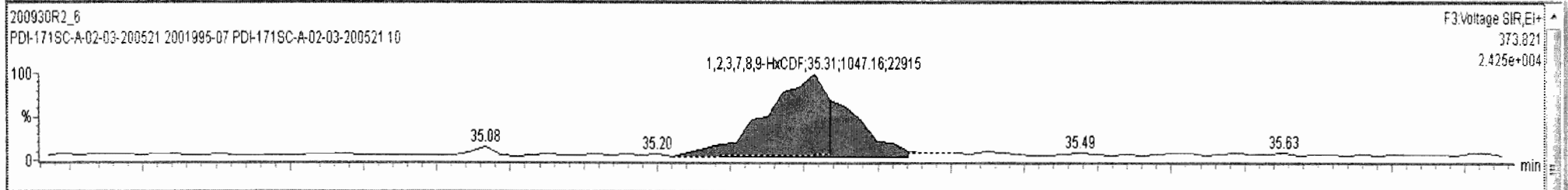
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	4.020e3	2.979e3	1.35	NO	1.9808	1.9808
2 Total Hexa-Furans	32.37	1.223e4	1.023e4	1.19	NO	6.3562	6.3562
3 Total Hexa-Furans	32.77	3.371e2	2.806e2	1.20	NO	0.17482	0.17482
4 Total Hexa-Furans	33.00	1.672e4	1.363e4	1.23	NO	8.5882	8.5882
5 Total Hexa-Furans	33.34	4.606e2	4.033e2	1.14	NO	0.24449	0.24449



200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.050			10.7		0.0985	11.1
46 Total Hexa-Furans				0.8699	10.050			25.7		0.8743	25.7
47 Total Hexa-Furans				0.8908	10.050			38.7		0.1651	38.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	4.020e3	2.979e3	1.35	NO	1.9837	1.9837
2 Total Hexa-Furans	32.37	1.223e4	1.023e4	1.19	NO	6.3655	6.3655
3 Total Hexa-Furans	32.77	3.371e2	2.806e2	1.20	NO	0.17507	0.17507
4 Total Hexa-Furans	33.00	1.672e4	1.363e4	1.23	NO	8.6008	8.6008
5 Total Hexa-Furans	33.34	5.700e2	4.424e2	1.18	NO	0.27276	0.27276



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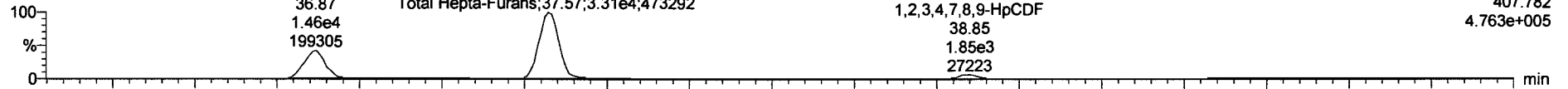
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Name: 200930R2\_6, Date: 01-Oct-2020, Time: 01:37:27, ID: 2001995-07 PDI-171SC-A-02-03-200521 10, Description: PDI-171SC-A-02-03-200521

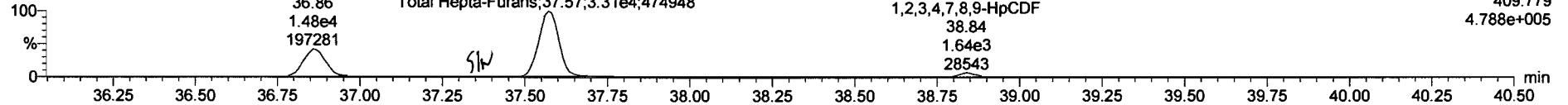
**1,2,3,4,6,7,8-HpCDF**

200930R2\_6



F4: Voltage SIR, EI+  
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4.763e+005

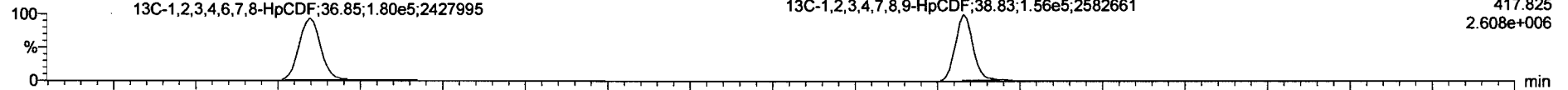
200930R2\_6



F4: Voltage SIR, EI+  
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4.788e+005

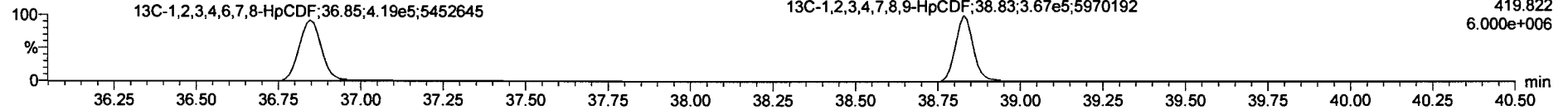
**13C-1,2,3,4,6,7,8-HpCDF**

200930R2\_6



F4: Voltage SIR, EI+  
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2.608e+006

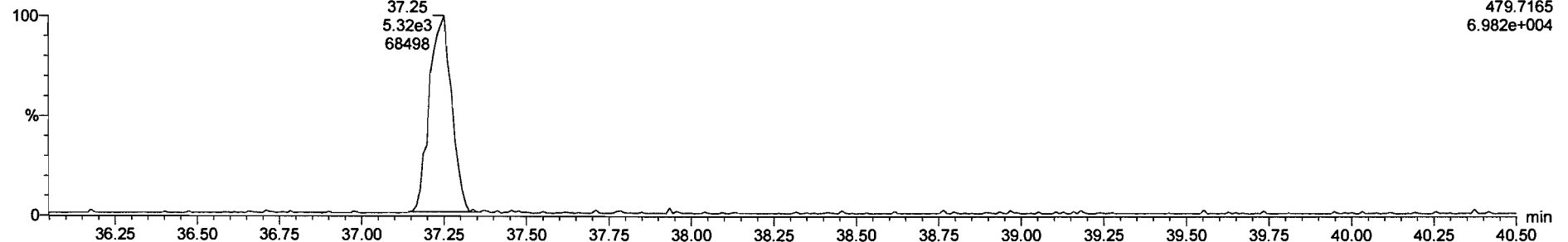
200930R2\_6



F4: Voltage SIR, EI+  
419.822  
6.000e+006

**DPE4**

200930R2\_6

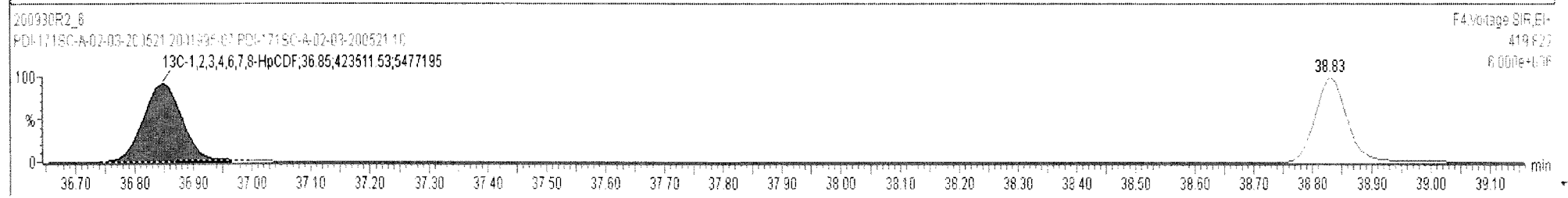
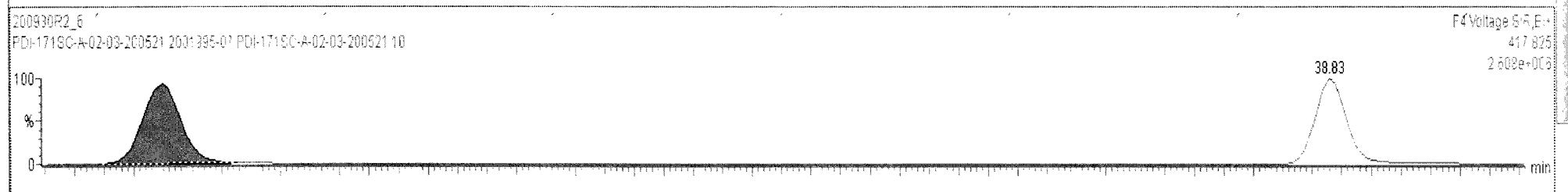
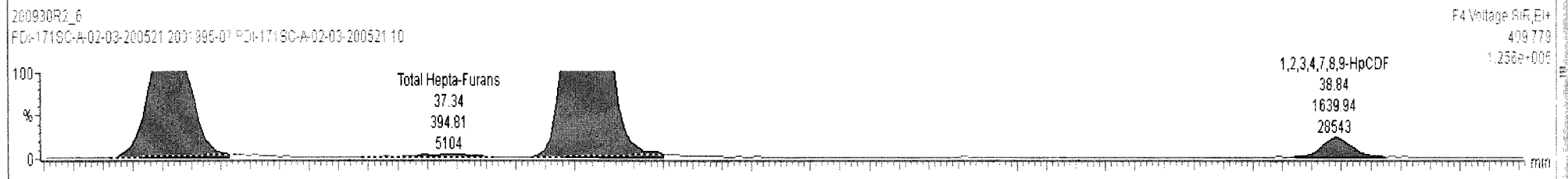
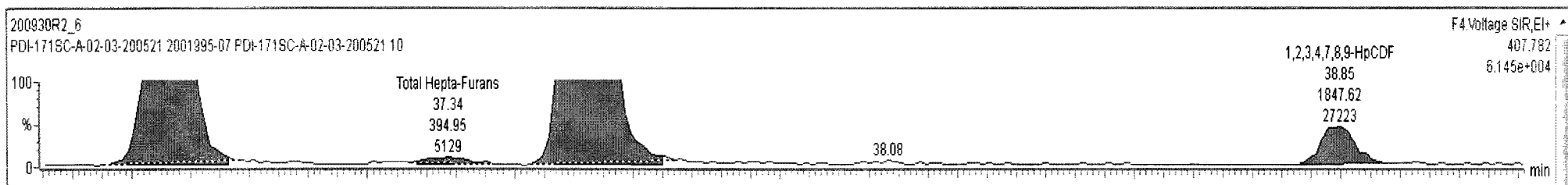


F4: Voltage SIR, EI+  
479.7165  
6.982e+004

200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.050			10.7		0.0985	11.1
46 Total Hexa-Furans				0.8699	10.050			25.7		0.0743	25.7
47 Total Hepta-Furans				0.8999	10.050			39.2		0.165	39.2

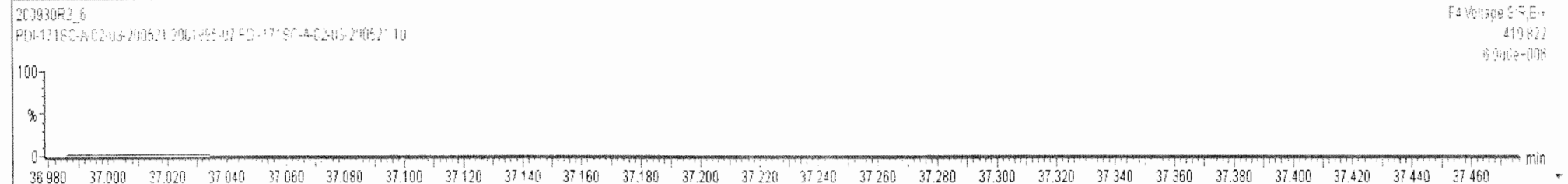
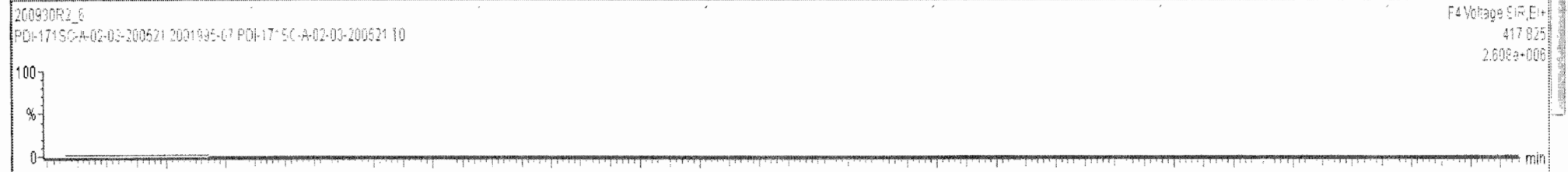
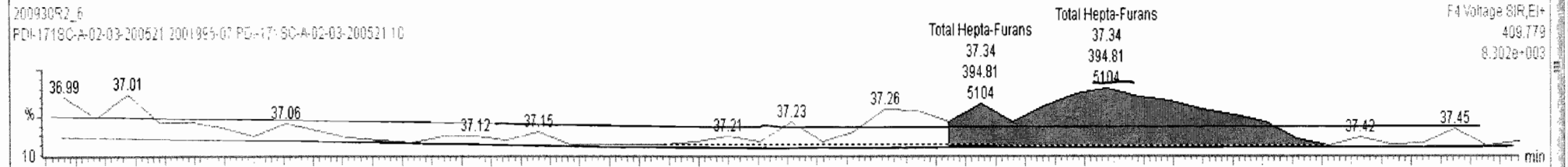
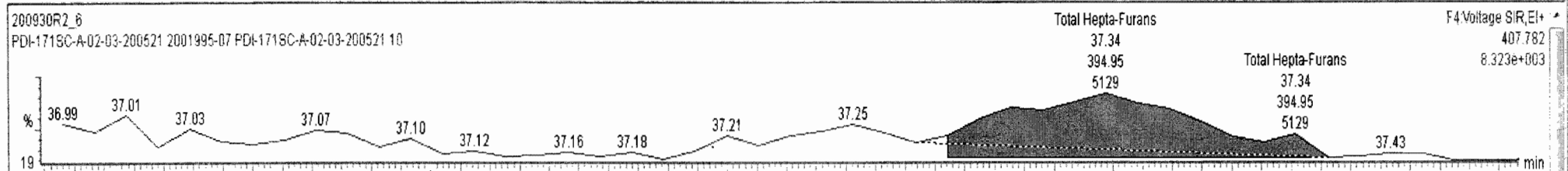
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.87	1.482e4	1.522e4	0.97	NO	11.058	11.058
2 Total Hepta-Furans	37.34	3.949e2	3.948e2	1.00	NO	0.31234	0.31234
3 Total Hepta-Furans	37.57	3.348e4	3.357e4	1.00	NO	26.519	26.519
4 1,2,3,4,7,8,9-HpCDF	38.85	1.848e3	1.640e3	1.13	NO	1.3274	1.3274



200930R2\_6 - 2001995-07 PDI-171SC-A-02-03-200521 10 - PDI-171SC-A-02-03-200521

Name	Resp	RA	nAy	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.050			10.7		0.0985	11.1
46 Total Hexa-Furans				0.8699	10.050			25.7		0.0743	25.7
47 Total Hepta-Furans				0.8908	10.050			39.2		0.165	39.2

Name	RT	m1 Resp	m2 Resp	RA	nAy	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.87	1.482e4	1.522e4	0.97	NO	11.058	11.058
2 Total Hepta-Furans	37.34	3.949e2	3.948e2	1.00	NO	0.31234	0.31234
3 Total Hepta-Furans	37.57	3.348e4	3.357e4	1.00	NO	26.519	26.519
4 1,2,3,4,7,8,9-HpCDF	38.85	1.848e3	1.640e3	1.13	NO	1.3274	1.3274





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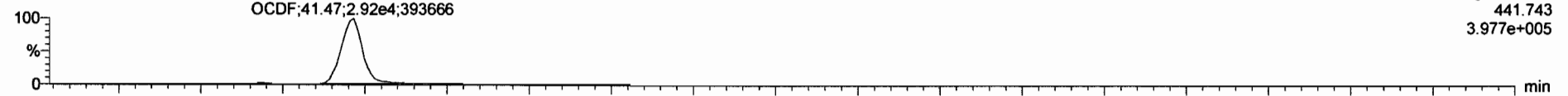
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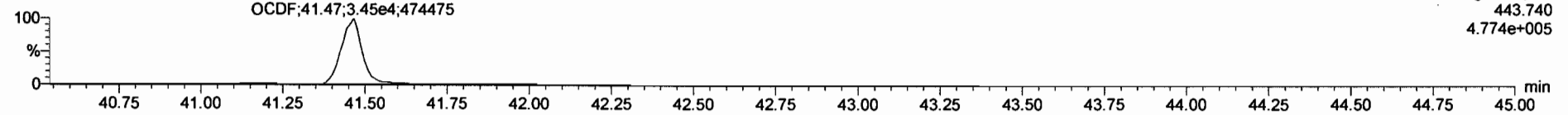
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**OCDF**

200930R2\_6

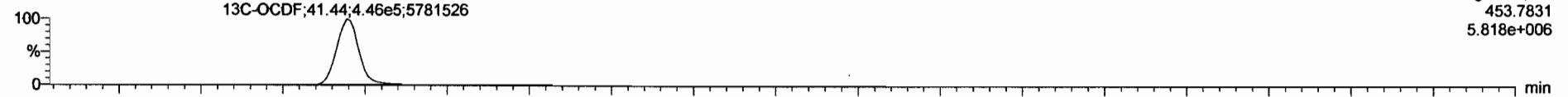


200930R2\_6

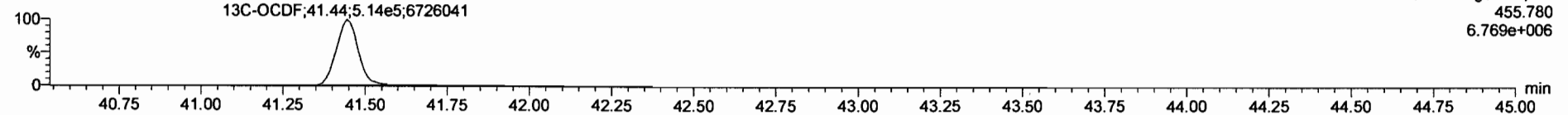


**13C-OCDF**

200930R2\_6

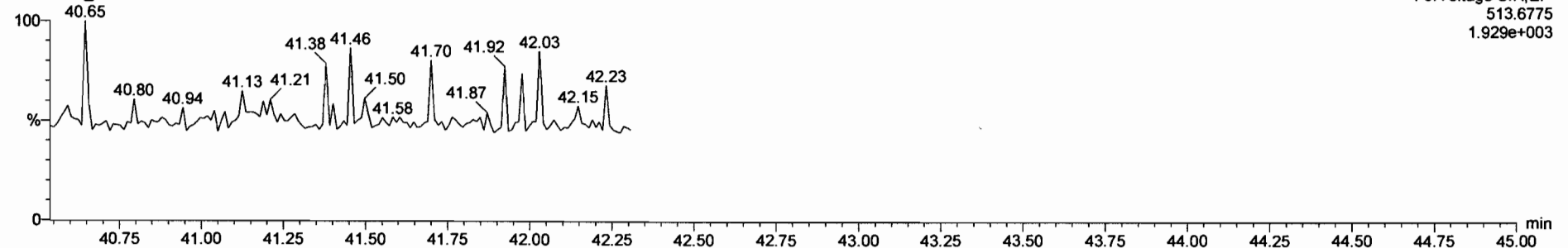


200930R2\_6



**DPE5**

200930R2\_6

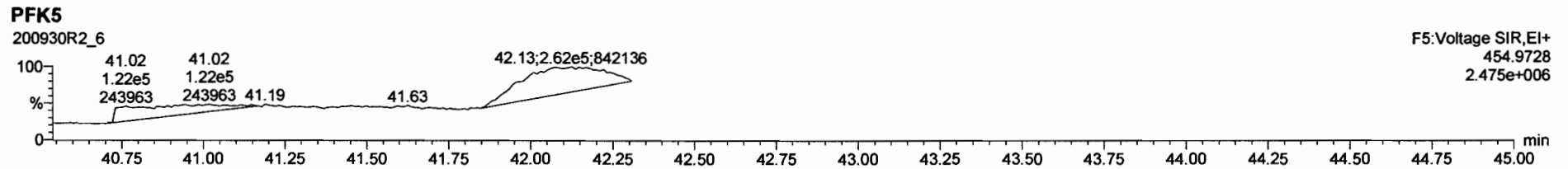
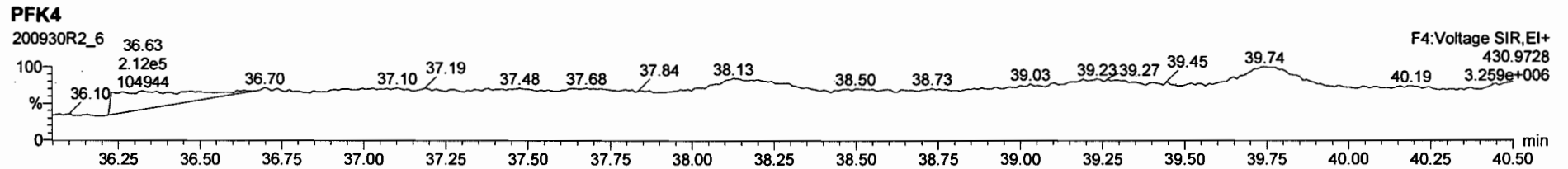
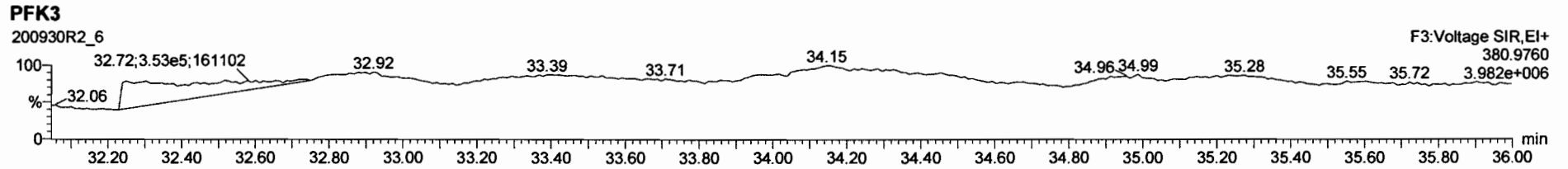
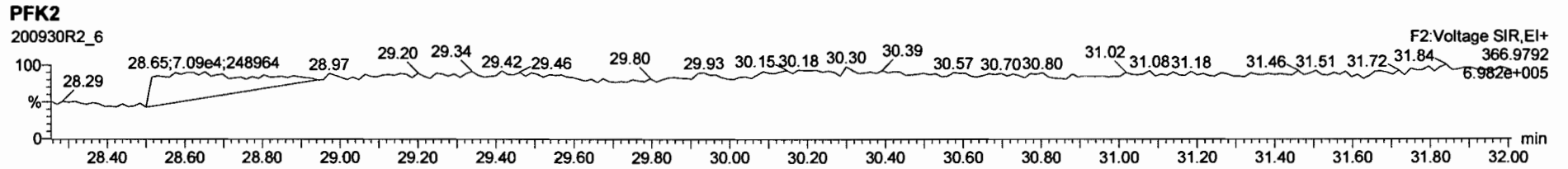
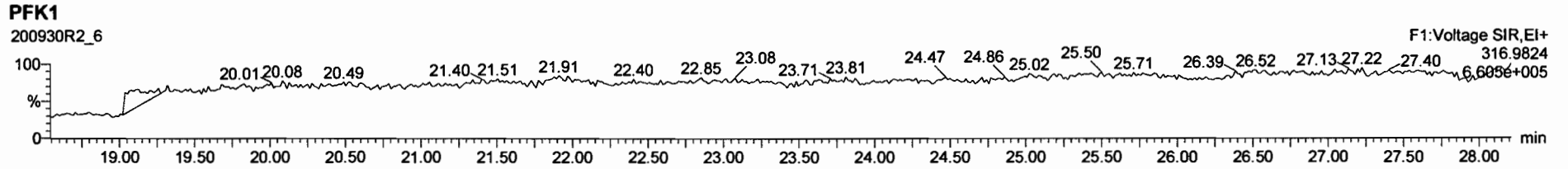


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Name: 200930R2\_6, Date: 01-Oct-2020, Time: 01:37:27, ID: 2001995-07 PDI-171SC-A-02-03-200521 10, Description: PDI-171SC-A-02-03-200521



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Printed: Thursday, October 22, 2020 12:44:32 Pacific Daylight Time

*dy 10-22-2020*

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

*ML 10/22/20*

Name: 200930R2\_7, Date: 01-Oct-2020, Time: 02:21:07, ID: 2001995-08 PDI-171SC-A-03-04-200521 10, Description: PDI-171SC-A-03-04-200521

#	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	1.68e3	0.34	YES	1.02	10.080	26.463	26.46	1.001	1.001	0.26222		0.0285	0.154
2	2 1,2,3,7,8-PeCDD	2.01e3	0.58	NO	0.956	10.080	31.085	31.08	1.001	1.000	0.37482		0.0511	0.375
3	3 1,2,3,4,7,8-HxCDD	2.05e3	1.36	NO	1.00	10.080	34.369	34.38	1.000	1.001	0.49666		0.103	0.497
4	4 1,2,3,6,7,8-HxCDD	8.62e3	1.27	NO	0.888	10.080	34.487	34.50	1.000	1.000	2.0728		0.107	2.07
5	5 1,2,3,7,8,9-HxCDD	4.63e3	1.26	NO	0.909	10.080	34.763	34.78	1.000	1.001	1.1058		0.108	1.11
6	6 1,2,3,4,6,7,8-HpCDD	1.37e5	1.00	NO	0.832	10.080	38.212	38.22	1.000	1.001	43.355		0.417	43.4
7	7 OCDD	1.73e6	0.87	NO	0.862	10.080	41.158	41.17	1.000	1.000	658.79		0.542	659
8	8 2,3,7,8-TCDF	6.38e3	0.73	NO	0.735	10.080	25.771	25.77	1.000	1.001	1.1249		0.0875	1.12
9	9 1,2,3,7,8-PeCDF	8.52e3	1.54	NO	0.939	10.080	29.833	29.83	1.001	1.001	1.2256		0.0465	1.23
10	10 2,3,4,7,8-PeCDF	7.05e3	1.39	NO	1.05	10.080	30.884	30.88	1.001	1.000	0.89150		0.0372	0.891
11	11 1,2,3,4,7,8-HxCDF	1.22e4	1.22	NO	0.842	10.080	33.454	33.47	1.000	1.000	2.8588		0.0705	2.86
12	12 1,2,3,6,7,8-HxCDF	4.44e3	1.21	NO	0.894	10.080	33.592	33.60	1.000	1.001	0.98245		0.0700	0.982
13	13 2,3,4,6,7,8-HxCDF	2.77e3	1.38	NO	0.870	10.080	34.274	34.27	1.001	1.001	0.64789		0.0751	0.648
14	14 1,2,3,7,8,9-HxCDF	1.76e3	1.23	NO	0.855	10.080	35.275	35.30	1.001	1.001	0.46402		0.0969	0.464
15	15 1,2,3,4,6,7,8-HpCDF	3.09e4	0.99	NO	0.891	10.080	36.874	36.86	1.001	1.001	9.2547		0.141	9.25
16	16 1,2,3,4,7,8,9-HpCDF	2.91e3	1.03	NO	1.00	10.080	38.829	38.84	1.000	1.000	0.96456		0.131	0.965
17	17 OCDF	6.53e4	0.87	NO	0.784	10.080	41.456	41.47	1.000	1.000	26.943		0.150	26.9
18	18 13C-2,3,7,8-TCDD	1.25e6	0.78	NO	1.15	10.080	26.420	26.43	1.029	1.029	177.97	89.7	0.138	
19	19 13C-1,2,3,7,8-PeCDD	1.11e6	0.63	NO	0.887	10.080	31.012	31.06	1.207	1.209	205.24	103	0.199	
20	20 13C-1,2,3,4,7,8-HxCDD	8.19e5	1.28	NO	0.801	10.080	34.372	34.36	1.014	1.014	193.23	97.4	0.382	
21	21 13C-1,2,3,6,7,8-HxCDD	9.30e5	1.26	NO	0.892	10.080	34.501	34.49	1.018	1.017	196.96	99.3	0.343	
22	22 13C-1,2,3,7,8,9-HxCDD	9.15e5	1.26	NO	0.882	10.080	34.762	34.75	1.025	1.025	195.86	98.7	0.347	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.53e5	1.05	NO	0.719	10.080	38.196	38.20	1.127	1.127	197.88	99.7	0.530	
24	24 13C-OCDD	1.21e6	0.88	NO	0.563	10.080	41.125	41.16	1.213	1.214	404.62	102	0.572	
25	25 13C-2,3,7,8-TCDF	1.53e6	0.77	NO	1.01	10.080	25.763	25.76	1.003	1.003	172.03	86.7	0.166	
26	26 13C-1,2,3,7,8-PeCDF	1.47e6	1.61	NO	0.814	10.080	29.772	29.81	1.159	1.161	204.68	103	0.322	
27	27 13C-2,3,4,7,8-PeCDF	1.50e6	1.57	NO	0.768	10.080	30.809	30.86	1.200	1.202	220.91	111	0.342	
28	28 13C-1,2,3,4,7,8-HxCDF	1.01e6	0.51	NO	0.993	10.080	33.450	33.45	0.987	0.987	191.71	96.6	0.355	
29	29 13C-1,2,3,6,7,8-HxCDF	1.00e6	0.51	NO	0.990	10.080	33.593	33.58	0.991	0.991	191.69	96.6	0.356	
30	30 13C-2,3,4,6,7,8-HxCDF	9.76e5	0.51	NO	0.944	10.080	34.260	34.25	1.011	1.010	195.36	98.5	0.373	

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-7a.qld

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	8.82e5	0.52	NO	0.842	10.080	35.277	35.25	1.041	1.040	198.13	99.9	0.419	
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.45e5	0.44	NO	0.687	10.080	36.867	36.84	1.087	1.087	204.95	103	0.468	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.99e5	0.44	NO	0.555	10.080	38.817	38.83	1.145	1.145	204.01	103	0.580	
34	34 13C-OCDF	1.23e6	0.87	NO	0.608	10.080	41.407	41.46	1.221	1.223	381.16	96.0	0.367	
35	35 37Cl-2,3,7,8-TCDD	4.62e5			1.18	10.080	26.451	26.45	1.030	1.030	64.027	80.7	0.0226	
36	36 13C-1,2,3,4-TCDD	1.21e6	0.79	NO	1.00	10.080	25.740	25.68	1.000	1.000	198.42	100	0.159	
37	37 13C-1,2,3,4-TCDF	1.75e6	0.78	NO	1.00	10.080	24.310	24.23	1.000	1.000	198.42	100	0.167	
38	38 13C-1,2,3,4,6,9-HxCDF	1.05e6	0.51	NO	1.00	10.080	33.920	33.90	1.000	1.000	198.42	100	0.353	
39	39 Total Tetra-Dioxins				1.02	10.080	24.620		0.000		2.1250		0.0285	2.57
40	40 Total Penta-Dioxins				0.956	10.080	29.960		0.000		2.4040		0.0511	3.37
41	41 Total Hexa-Dioxins				0.888	10.080	33.635		0.000		17.810		0.111	18.5
42	42 Total Hepta-Dioxins				0.832	10.080	37.640		0.000		98.118		0.417	98.1
43	43 Total Tetra-Furans				0.735	10.080	23.610		0.000		5.4430		0.0875	6.18
44	44 1st Func. Penta-Furans				0.939	10.080	27.230		0.000		3.0810		0.0178	3.08
45	45 Total Penta-Furans				0.939	10.080	29.275		0.000		5.3692		0.0440	5.37
46	46 Total Hexa-Furans				0.870	10.080	33.555		0.000		15.706		0.0771	15.9
47	47 Total Hepta-Furans				0.891	10.080	37.835		0.000		29.724		0.143	29.7

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Name: 200930R2\_7, Date: 01-Oct-2020, Time: 02:21:07, ID: 2001995-08 PDI-171SC-A-03-04-200521 10, Description: PDI-171SC-A-03-04-200521

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.73	1.477e4	1.780e4	1.240e3	1.569e3	0.79	NO	2.809e3	0.43726	0.43726	0.0285
2	Total Tetra-Dioxins	23.08	6.784e3	8.409e3	5.953e2	6.535e2	0.91	YES	0.000e0	0.00000	0.18003	0.0285
3	Total Tetra-Dioxins	23.60	3.981e3	5.257e3	3.241e2	3.842e2	0.84	NO	7.083e2	0.11025	0.11025	0.0285
4	Total Tetra-Dioxins	24.41	9.607e3	1.113e4	6.614e2	8.118e2	0.81	NO	1.473e3	0.22930	0.22930	0.0285
5	Total Tetra-Dioxins	24.60	5.340e3	5.699e3	3.271e2	4.296e2	0.76	NO	7.567e2	0.11778	0.11778	0.0285
6	Total Tetra-Dioxins	24.84	4.590e3	7.698e3	3.237e2	4.965e2	0.65	YES	0.000e0	0.00000	0.11581	0.0285
7	Total Tetra-Dioxins	26.18	5.442e4	6.737e4	3.566e3	4.339e3	0.82	NO	7.905e3	1.2304	1.2304	0.0285
8	2,3,7,8-TCDD	26.46	9.538e3	2.205e4	4.295e2	1.255e3	0.34	YES	1.685e3	0.00000	0.15366	0.0285

**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	3.303e4	4.820e4	2.234e3	3.720e3	0.60	NO	5.954e3	1.1096	1.1096	0.0511
2	Total Penta-Dioxins	29.31	1.377e4	2.123e4	5.659e2	9.454e2	0.60	NO	1.511e3	0.28163	0.28163	0.0511
3	Total Penta-Dioxins	29.83	2.046e4	3.039e4	8.718e2	1.182e3	0.74	YES	0.000e0	0.00000	0.35911	0.0511
4	Total Penta-Dioxins	30.01	1.551e4	2.258e4	1.313e3	1.794e3	0.73	YES	0.000e0	0.00000	0.54484	0.0511
5	Total Penta-Dioxins	30.28	1.411e4	2.383e4	9.612e2	1.717e3	0.56	NO	2.678e3	0.49903	0.49903	0.0511
6	1,2,3,7,8-PeCDD	31.08	1.511e4	2.280e4	7.362e2	1.275e3	0.58	NO	2.011e3	0.37482	0.37482	0.0511
7	Total Penta-Dioxins	31.17	7.211e3	5.498e3	1.994e2	2.048e2	0.97	YES	0.000e0	0.00000	0.062200	0.0511
8	Total Penta-Dioxins	31.43	5.619e3	8.862e3	2.795e2	4.660e2	0.60	NO	7.455e2	0.13892	0.13892	0.0511

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**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.73	2.691e5	2.083e5	1.342e4	1.034e4	1.30	NO	2.376e4	5.9799	5.9799	0.111
2	Total Hexa-Dioxins	33.34	4.529e4	3.605e4	2.451e3	1.956e3	1.25	NO	4.407e3	1.1091	1.1091	0.111
3	Total Hexa-Dioxins	33.62	2.187e5	1.809e5	1.564e4	1.235e4	1.27	NO	2.799e4	7.0455	7.0455	0.111
4	Total Hexa-Dioxins	33.72	2.074e4	1.447e4	1.043e3	7.294e2	1.43	YES	0.000e0	0.00000	0.41121	0.111
5	1,2,3,4,7,8-HxCDD	34.38	2.295e4	1.649e4	1.183e3	8.720e2	1.36	NO	2.055e3	0.49666	0.49666	0.103
6	1,2,3,6,7,8-HxCDD	34.50	8.077e4	6.716e4	4.816e3	3.807e3	1.27	NO	8.623e3	2.0728	2.0728	0.107
7	Total Hexa-Dioxins	34.67	1.394e4	9.454e3	7.627e2	5.197e2	1.47	YES	0.000e0	0.00000	0.29301	0.111
8	1,2,3,7,8,9-HxCDD	34.78	4.388e4	3.048e4	2.581e3	2.054e3	1.26	NO	4.635e3	1.1058	1.1058	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	37.24	1.188e6	1.127e6	8.694e4	8.587e4	1.01	NO	1.728e5	54.762	54.762	0.417
2	1,2,3,4,6,7,8-HpCDD	38.22	1.163e6	1.138e6	6.856e4	6.824e4	1.00	NO	1.368e5	43.355	43.355	0.417

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**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Furans	21.07	4.892e3	6.664e3	3.896e2	6.314e2	0.62	YES	0.000e0	0.00000	0.15786	0.0875
2	Total Tetra-Furans	21.90	2.894e4	3.510e4	2.615e3	3.393e3	0.77	NO	6.009e3	1.0592	1.0592	0.0875
3	Total Tetra-Furans	22.36	6.059e3	7.684e3	5.078e2	6.147e2	0.83	NO	1.122e3	0.19787	0.19787	0.0875
4	Total Tetra-Furans	22.82	1.563e4	2.300e4	1.608e3	2.186e3	0.74	NO	3.793e3	0.66869	0.66869	0.0875
5	Total Tetra-Furans	23.24	1.171e4	1.470e4	1.011e3	1.245e3	0.81	NO	2.256e3	0.39775	0.39775	0.0875
6	Total Tetra-Furans	23.38	6.257e3	7.407e3	4.193e2	5.468e2	0.77	NO	9.662e2	0.17032	0.17032	0.0875
7	Total Tetra-Furans	23.59	9.117e3	8.605e3	6.001e2	6.532e2	0.92	YES	0.000e0	0.00000	0.20382	0.0875
8	Total Tetra-Furans	24.10	5.026e3	6.342e3	2.457e2	5.041e2	0.49	YES	0.000e0	0.00000	0.099562	0.0875
9	Total Tetra-Furans	24.26	3.860e3	7.343e3	1.931e2	3.630e2	0.53	YES	0.000e0	0.00000	0.078261	0.0875
10	Total Tetra-Furans	24.37	1.375e4	2.019e4	1.415e3	1.765e3	0.80	NO	3.180e3	0.56050	0.56050	0.0875
11	Total Tetra-Furans	24.78	3.797e4	4.960e4	2.509e3	3.360e3	0.75	NO	5.869e3	1.0346	1.0346	0.0875
12	Total Tetra-Furans	25.65	1.122e4	1.180e4	6.005e2	6.996e2	0.86	NO	1.300e3	0.22918	0.22918	0.0875
13	2,3,7,8-TCDF	25.77	4.453e4	6.351e4	2.697e3	3.684e3	0.73	NO	6.381e3	1.1249	1.1249	0.0875
14	Total Tetra-Furans	27.27	4.586e3	6.610e3	3.011e2	3.299e2	0.91	YES	0.000e0	0.00000	0.10294	0.0875
15	Total Tetra-Furans	27.63	4.609e3	8.617e3	2.338e2	4.255e2	0.55	YES	0.000e0	0.00000	0.094743	0.0875

**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	27.24	2.302e5	1.382e5	1.325e4	8.348e3	1.59	NO	2.160e4	3.0810	3.0810	0.0178

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**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.68	1.832e4	1.060e4	1.225e3	7.960e2	1.54	NO	2.021e3	0.28826	0.28826	0.0440
2	Total Penta-Furans	28.85	9.780e4	6.147e4	7.125e3	4.518e3	1.58	NO	1.164e4	1.6607	1.6607	0.0440
3	Total Penta-Furans	29.46	2.897e4	2.434e4	1.955e3	1.326e3	1.47	NO	3.281e3	0.46801	0.46801	0.0440
4	Total Penta-Furans	29.63	1.319e4	1.040e4	7.257e2	5.057e2	1.44	NO	1.231e3	0.17565	0.17565	0.0440
5	1,2,3,7,8-PeCDF	29.83	1.021e5	7.427e4	5.158e3	3.359e3	1.54	NO	8.517e3	1.2256	1.2256	0.0465
6	Total Penta-Furans	30.09	4.028e4	2.609e4	2.470e3	1.521e3	1.62	NO	3.992e3	0.56934	0.56934	0.0440
7	Total Penta-Furans	30.68	9.299e3	6.294e3	3.810e2	2.506e2	1.52	NO	6.315e2	0.090080	0.090080	0.0440
8	2,3,4,7,8-PeCDF	30.88	7.678e4	5.882e4	4.099e3	2.952e3	1.39	NO	7.051e3	0.89150	0.89150	0.0372

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.20	6.236e4	5.008e4	2.940e3	2.341e3	1.26	NO	5.281e3	1.2450	1.2450	0.0771
2	Total Hexa-Furans	32.37	1.981e5	1.703e5	9.513e3	7.894e3	1.21	NO	1.741e4	4.1039	4.1039	0.0771
3	Total Hexa-Furans	32.77	6.277e3	4.643e3	2.850e2	2.442e2	1.17	NO	5.292e2	0.12477	0.12477	0.0771
4	Total Hexa-Furans	33.00	2.579e5	2.040e5	1.238e4	1.001e4	1.24	NO	2.239e4	5.2789	5.2789	0.0771
5	Total Hexa-Furans	33.34	6.494e3	6.521e3	3.099e2	3.111e2	1.00	YES	0.000e0	0.00000	0.13200	0.0771
6	1,2,3,4,7,8-HxCDF	33.47	1.373e5	1.067e5	6.702e3	5.512e3	1.22	NO	1.221e4	2.8588	2.8588	0.0705
7	1,2,3,6,7,8-HxCDF	33.60	4.281e4	3.564e4	2.429e3	2.016e3	1.21	NO	4.445e3	0.98245	0.98245	0.0700
8	2,3,4,6,7,8-HxCDF	34.27	2.639e4	1.780e4	1.607e3	1.165e3	1.38	NO	2.773e3	0.64789	0.64789	0.0751
9	1,2,3,7,8,9-HxCDF	35.30	1.811e4	1.267e4	9.723e2	7.924e2	1.23	NO	1.765e3	0.46402	0.46402	0.0969
10	Total Hexa-Furans	35.33	1.147e4	5.984e3	1.817e2	1.733e2	1.05	YES	0.000e0	0.00000	0.077385	0.0771

**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	36.86	2.125e5	1.978e5	1.536e4	1.558e4	0.99	NO	3.094e4	9.2547	9.2547	0.141
2	Total Hepta-Furans	37.57	4.488e5	4.420e5	2.947e4	2.935e4	1.00	NO	5.882e4	19.505	19.505	0.143
3	1,2,3,4,7,8,9-HpCDF	38.84	2.474e4	2.519e4	1.475e3	1.435e3	1.03	NO	2.910e3	0.96456	0.96456	0.131



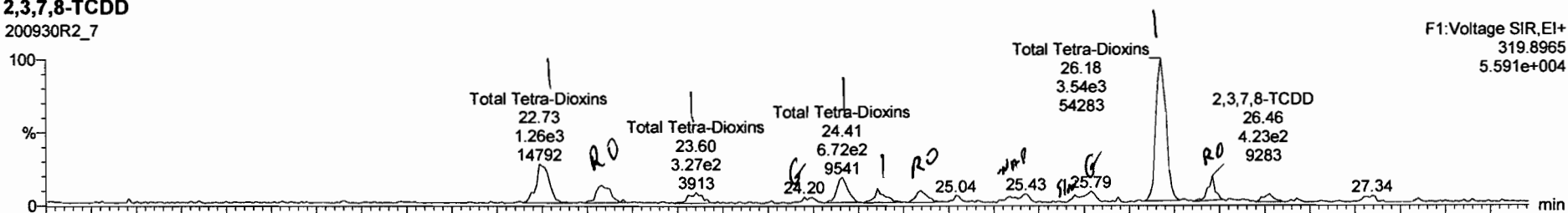
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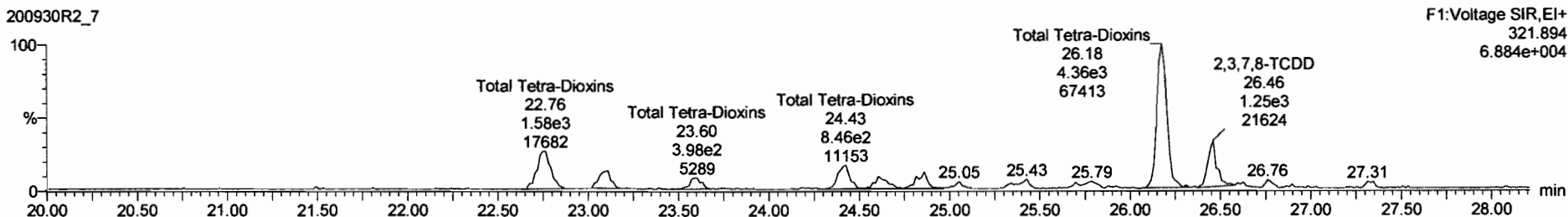
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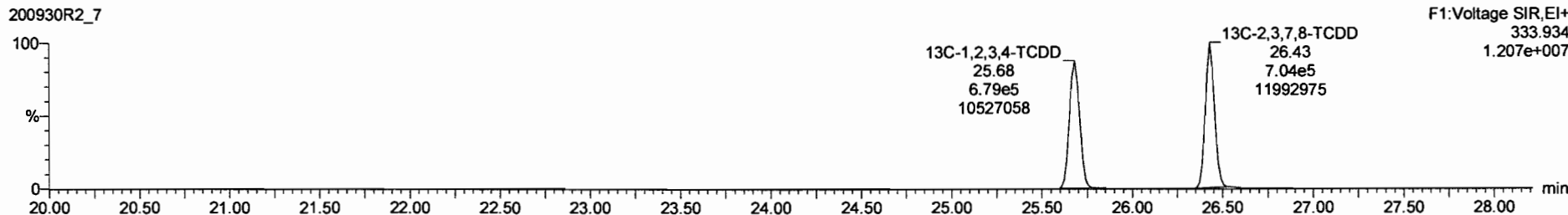


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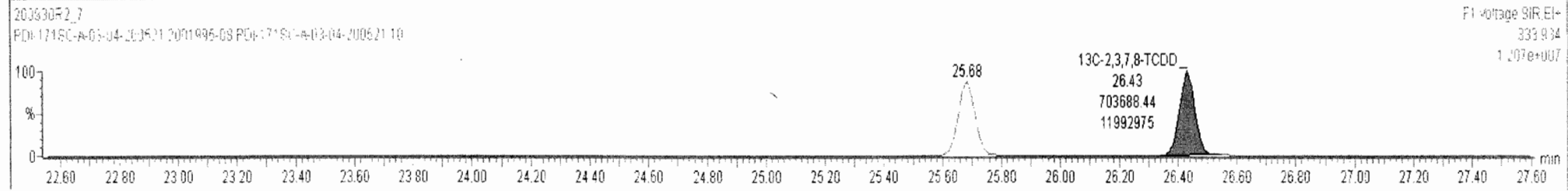
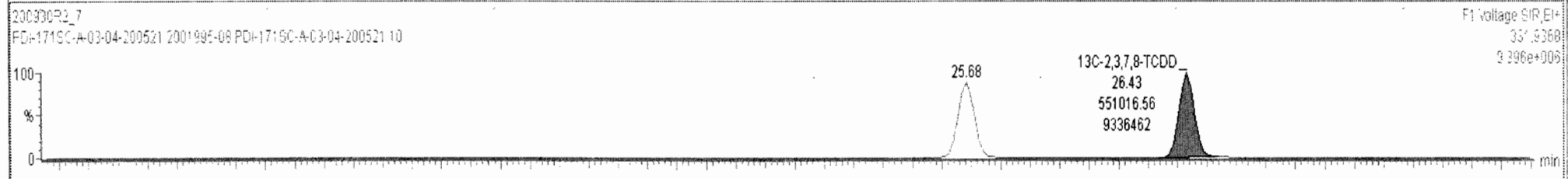
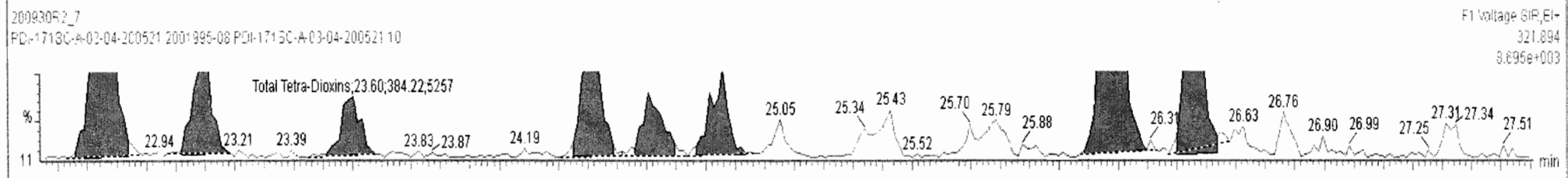
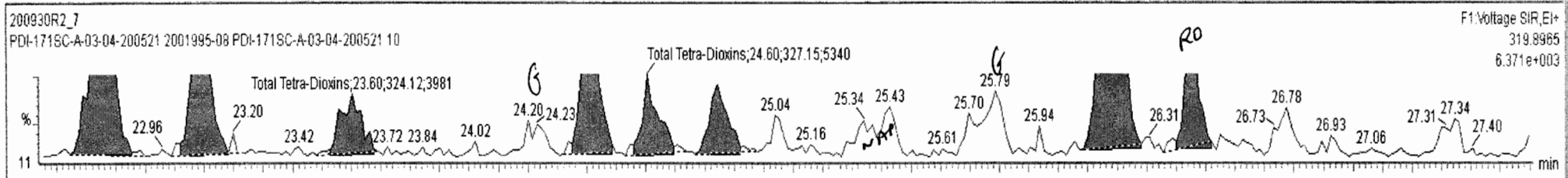
200930R2\_7



200930R2\_7 - 2001995-08 PDI-1715C-A-03-04-200521 10 - PDI-1715C-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.060			2.12		0.0285	2.57
40 Total Penta-Dioxins				0.9561	10.060			2.08		0.0511	3.44
41 Total Hexa-Dioxins				0.8879	10.060			17.8		0.1111	18.6

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	22.73	1.240e3	1.569e3	0.79	NO	0.43726	0.43726
2 Total Tetra-Dioxins	23.08	5.953e2	6.535e2	0.91	YES	0.18003	0.00000
3 Total Tetra-Dioxins	23.60	3.241e2	3.842e2	0.84	NO	0.11025	0.11025
4 Total Tetra-Dioxins	24.41	6.614e2	8.118e2	0.81	NO	0.22930	0.22930
5 Total Tetra-Dioxins	24.60	3.271e2	4.296e2	0.76	NO	0.11778	0.11778



Dataset: Untitled

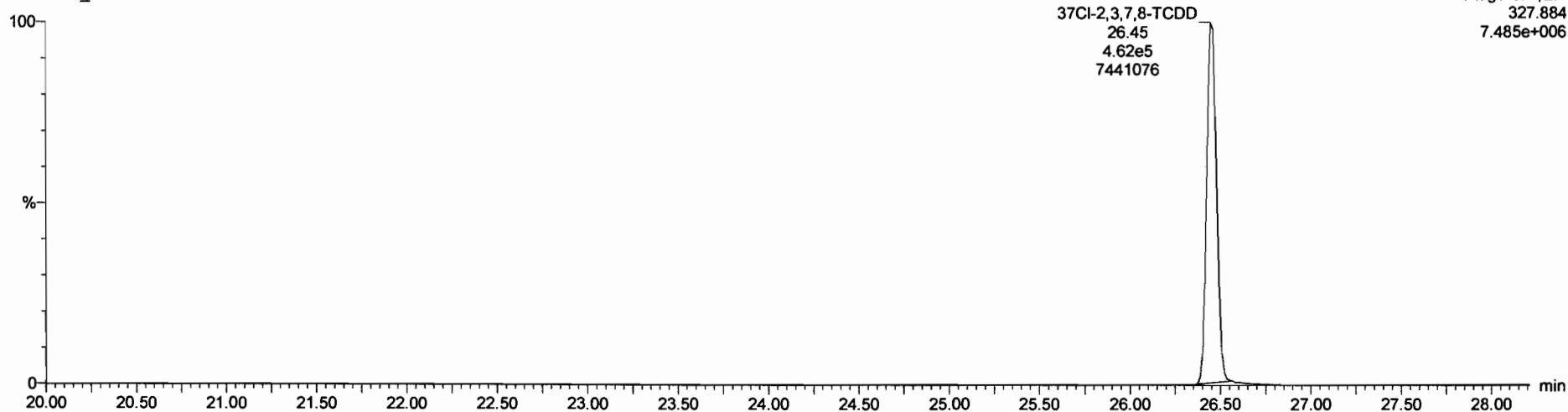
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Name: 200930R2\_7, Date: 01-Oct-2020, Time: 02:21:07, ID: 2001995-08 PDI-171SC-A-03-04-200521 10, Description: PDI-171SC-A-03-04-200521

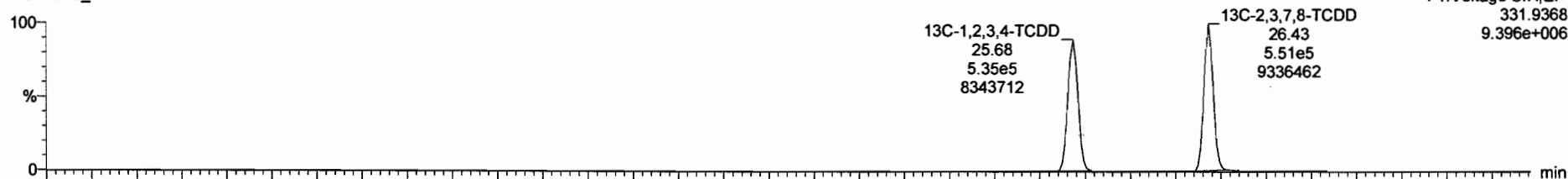
**37Cl-2,3,7,8-TCDD**

200930R2\_7

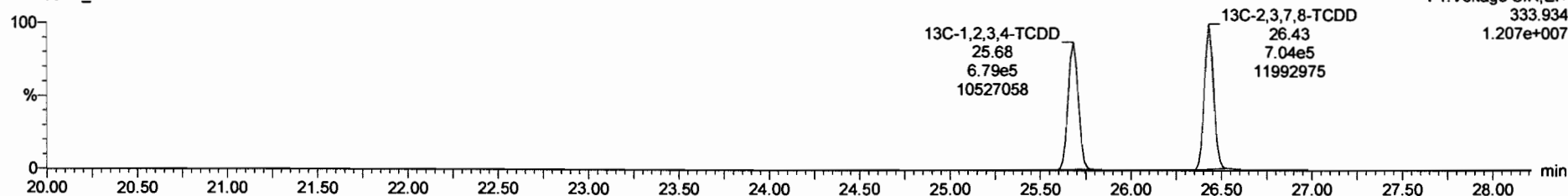


**13C-1,2,3,4-TCDD**

200930R2\_7



200930R2\_7



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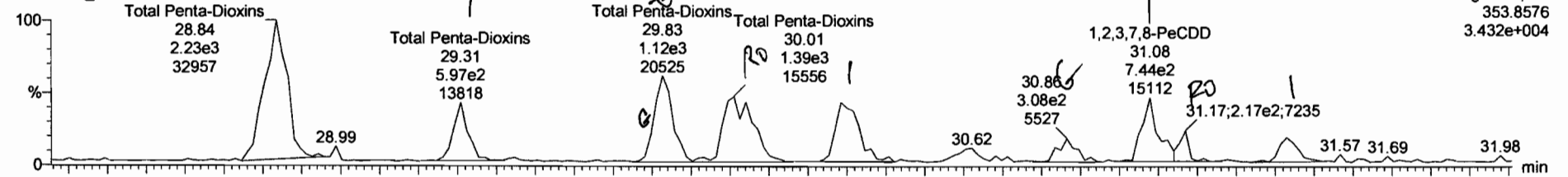
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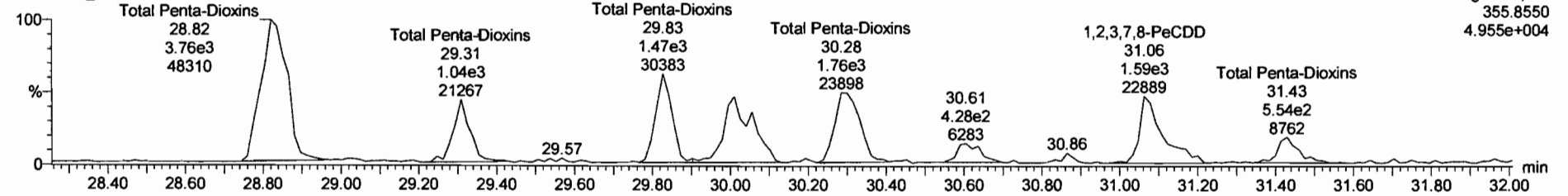
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**1,2,3,7,8-PeCDD**

200930R2\_7

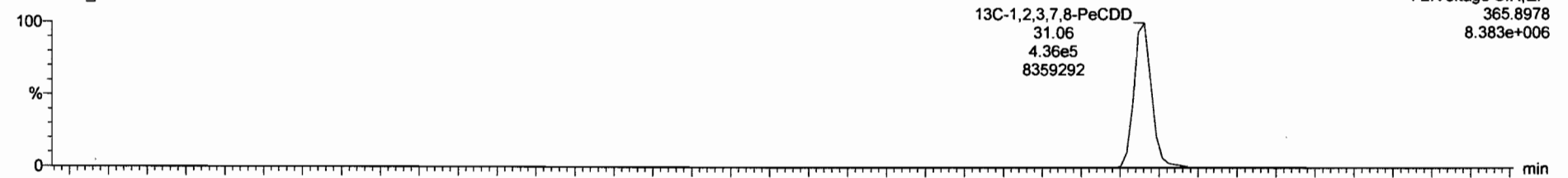


200930R2\_7

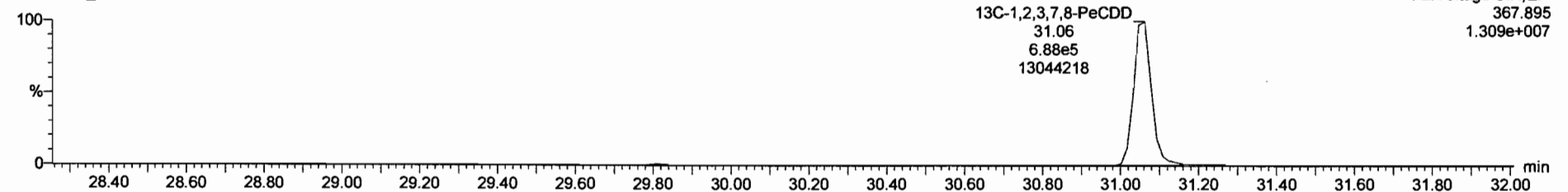


**13C-1,2,3,7,8-PeCDD**

200930R2\_7

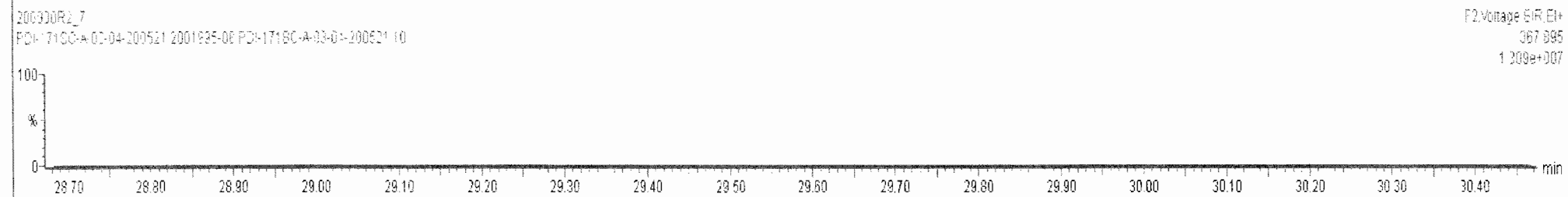
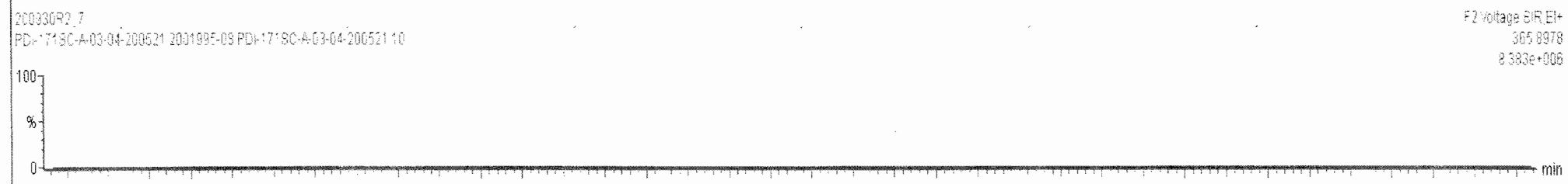
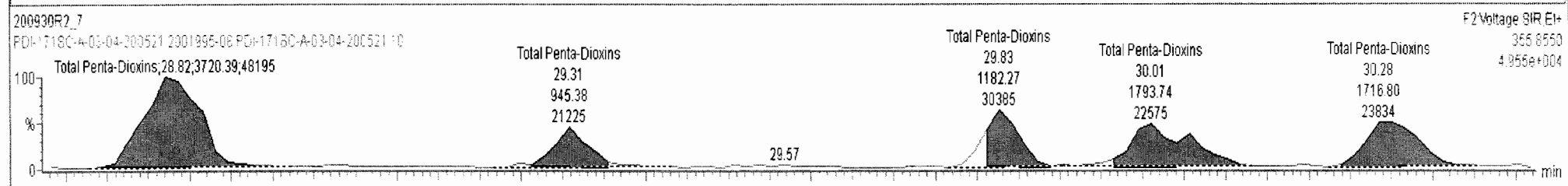
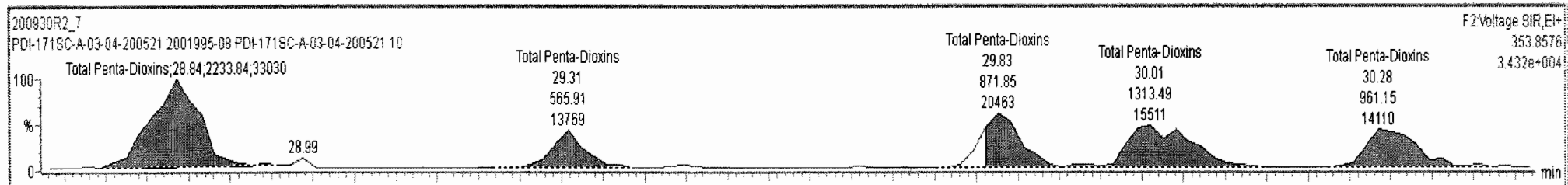


200930R2\_7



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9581	10.080			2.40		0.0511	3.37
41 Total Hexa-Dioxins				0.8879	10.080			17.8		0.111	18.6
42 Total Henta-Dioxins				0.8316	10.080			98.3		0.417	98.3

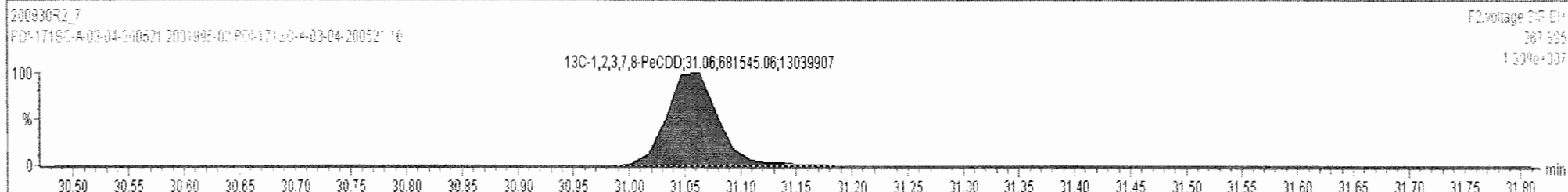
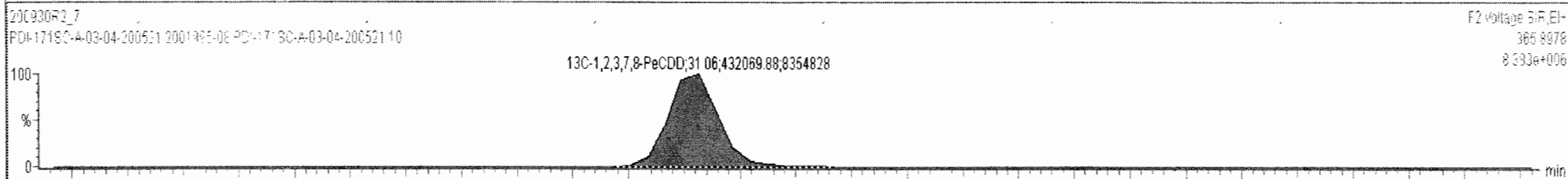
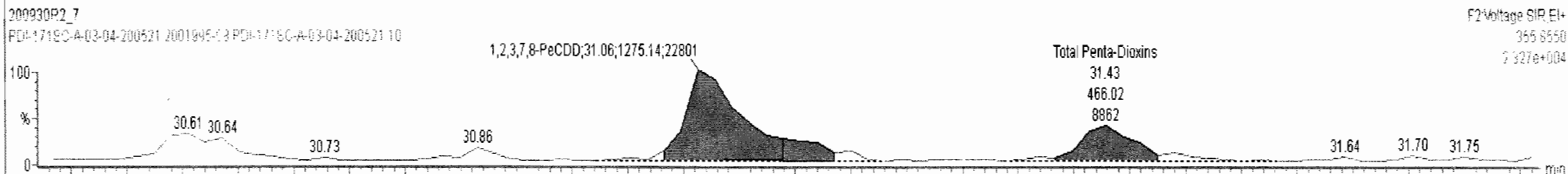
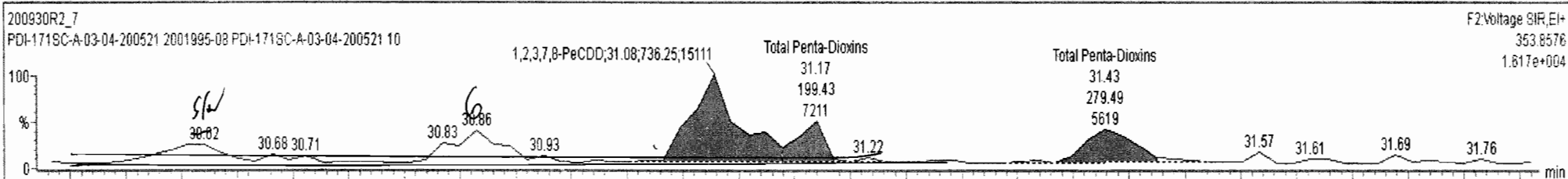
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.84	2.234e3	3.720e3	0.60	NO	1.1096	1.1096
2 Total Penta-Dioxins	29.31	5.659e2	9.454e2	0.60	NO	0.28163	0.28163
3 Total Penta-Dioxins	29.83	8.718e2	1.182e3	0.74	YES	0.35911	0.00000
4 Total Penta-Dioxins	30.01	1.313e3	1.794e3	0.73	YES	0.54484	0.00000



200930R2\_7 - 2001995-08 PDI-171SC-A-03-04-200521 10 - PDI-171SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9561	10.080			2.40		0.0511	3.37
41 Total Hexa-Dioxins				0.8879	10.080			17.8		0.111	18.6
42 Total Hepta-Dioxins				0.8316	10.080			98.3		0.417	98.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
5 Total Penta-Dioxins	30.28	9.612e2	1.717e3	0.56	NO	0.49903	0.49903
6 1,2,3,7,8-PeCDD	31.08	7.362e2	1.275e3	0.58	NO	0.37482	0.37482
7 Total Penta-Dioxins	31.17	1.994e2	2.048e2	0.97	YES	0.062200	0.00000
8 Total Penta-Dioxins	31.43	2.795e2	4.660e2	0.60	NO	0.13892	0.13892



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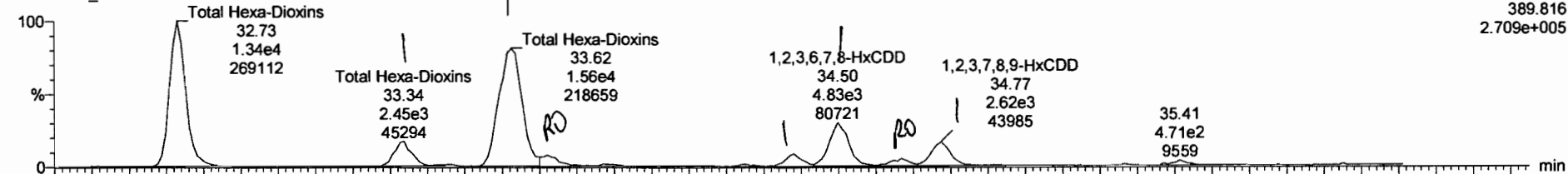
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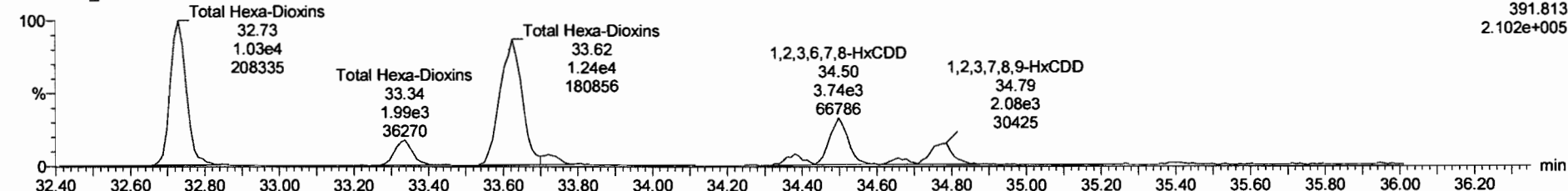
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1,2,3,4,7,8-HxCDD

200930R2\_7

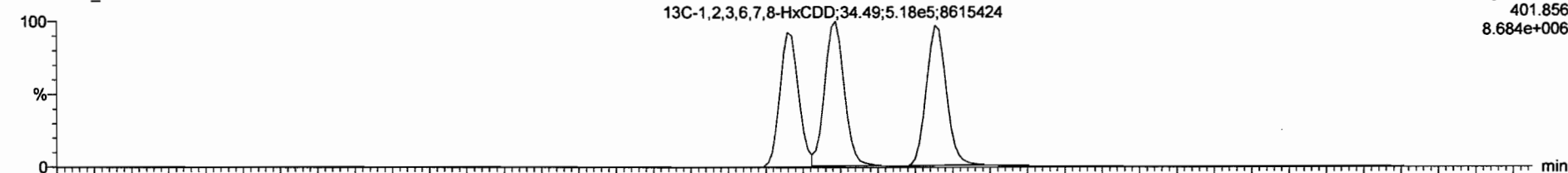


200930R2\_7

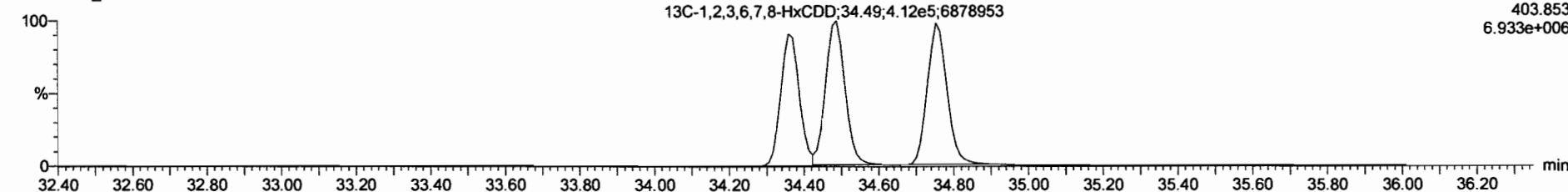


13C-1,2,3,4,7,8-HxCDD

200930R2\_7

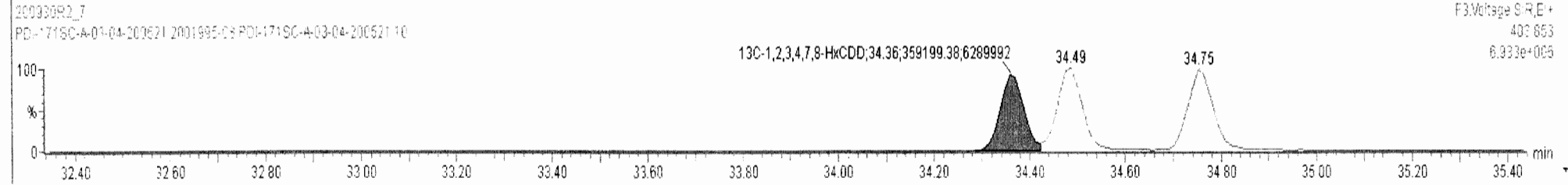
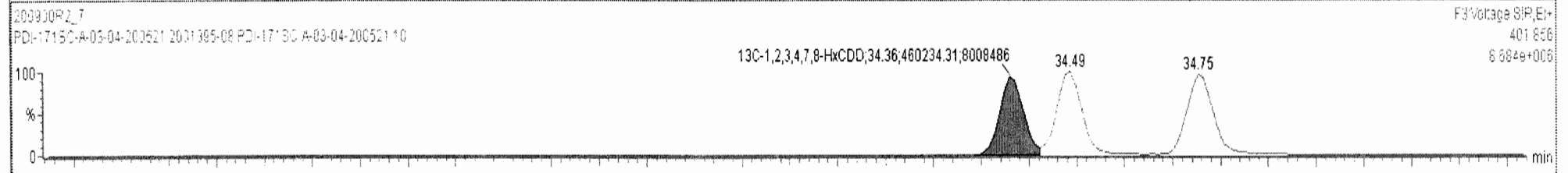
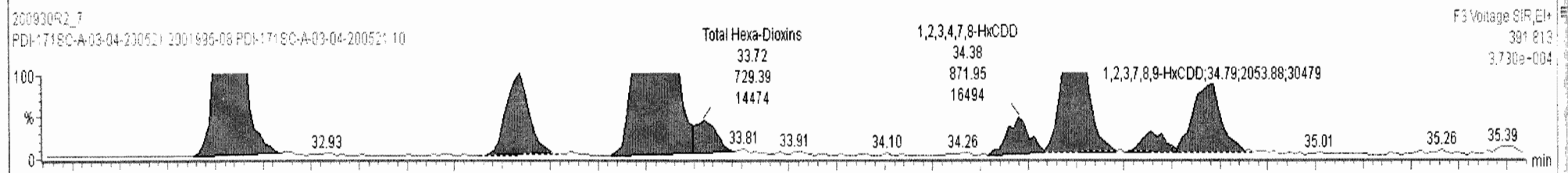
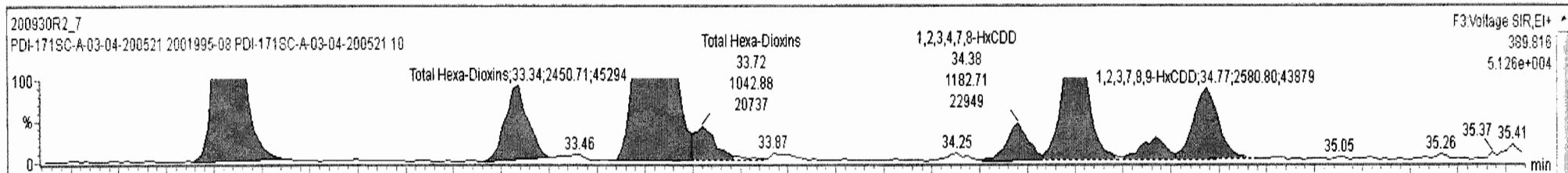


200930R2\_7



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins			0.9561	10.060			2.40		0.0511	3.37
41	Total Hexa-Dioxins			0.8879	10.060			17.8		0.111	18.5
42	Total Hepta-Dioxins			0.8316	10.060			98.3		0.417	98.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Hexa-Dioxins	32.73	1.342e4	1.034e4	1.30	NO	5.9799	5.9799
2	Total Hexa-Dioxins	33.34	2.451e3	1.956e3	1.25	NO	1.1091	1.1091
3	Total Hexa-Dioxins	33.62	1.564e4	1.235e4	1.27	NO	7.0455	7.0455
4	Total Hexa-Dioxins	33.72	1.043e3	7.294e2	1.43	YES	0.41121	0.00000
5	1,2,3,4,7,8-HxCDD	34.38	1.183e3	8.720e2	1.36	NO	0.49666	0.49666
6	1,2,3,6,7,8-HxCDD	34.50	4.816e3	3.807e3	1.27	NO	2.0728	2.0728





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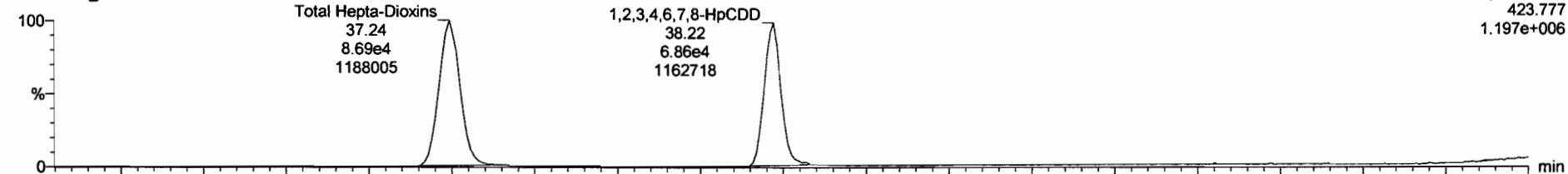
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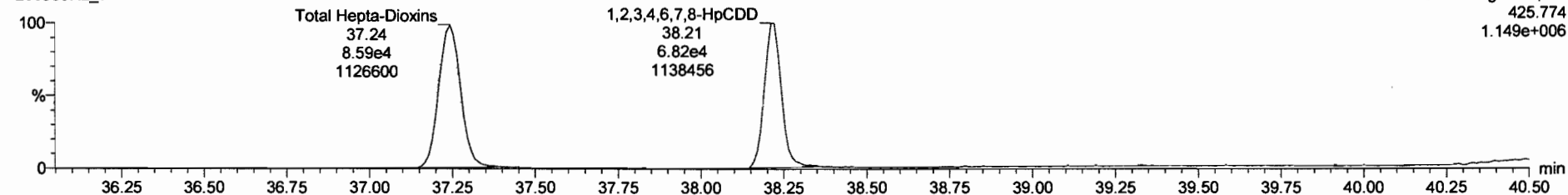
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**1,2,3,4,6,7,8-HpCDD**

200930R2\_7

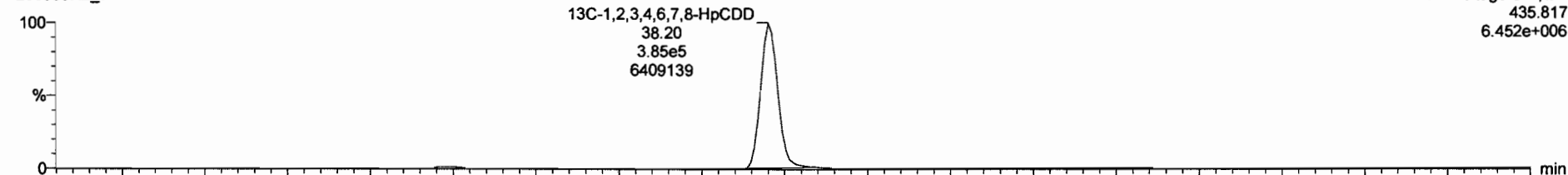


200930R2\_7

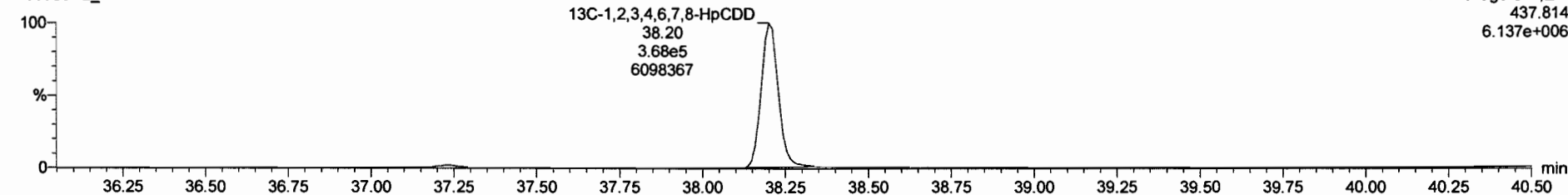


**13C-1,2,3,4,6,7,8-HpCDD**

200930R2\_7



200930R2\_7



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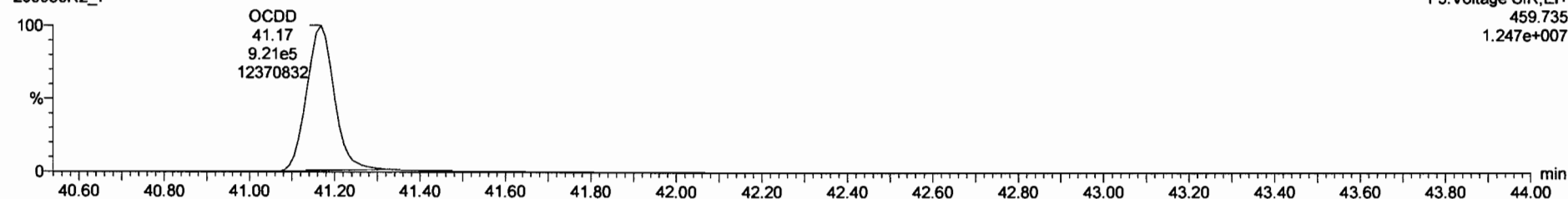
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**OCDD**

200930R2\_7



200930R2\_7

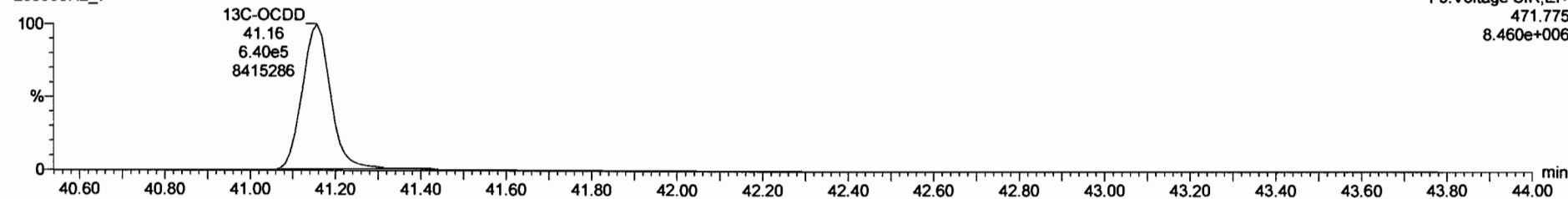


**13C-OCDD**

200930R2\_7



200930R2\_7



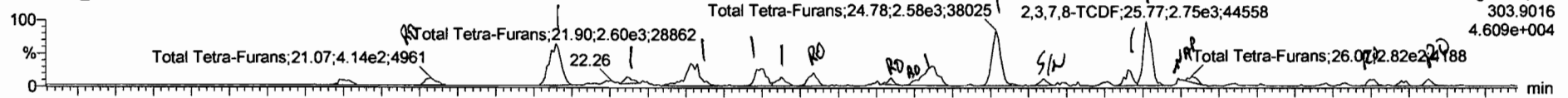
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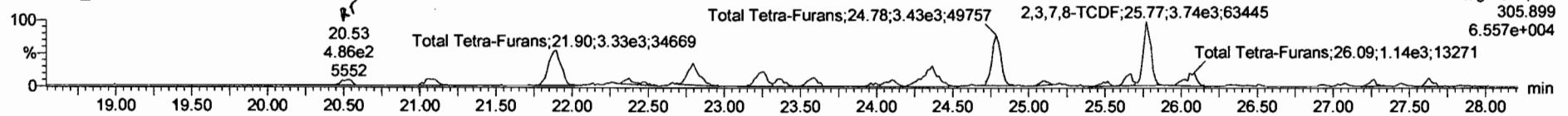
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**2,3,7,8-TCDF**

200930R2\_7

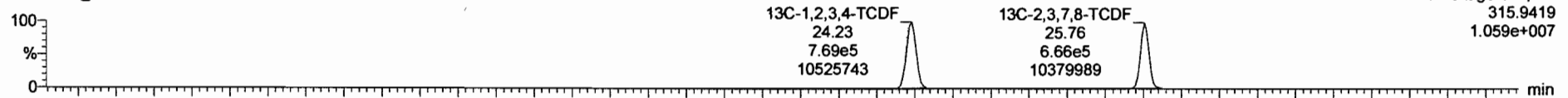


200930R2\_7

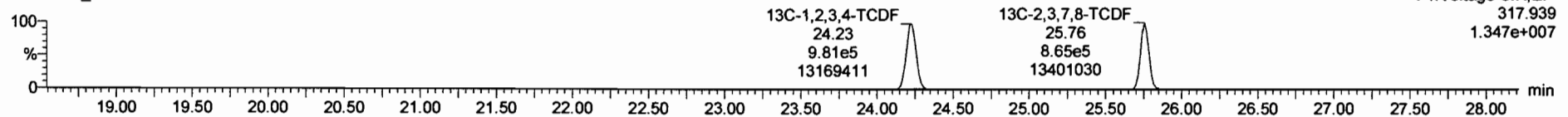


**13C-2,3,7,8-TCDF**

200930R2\_7

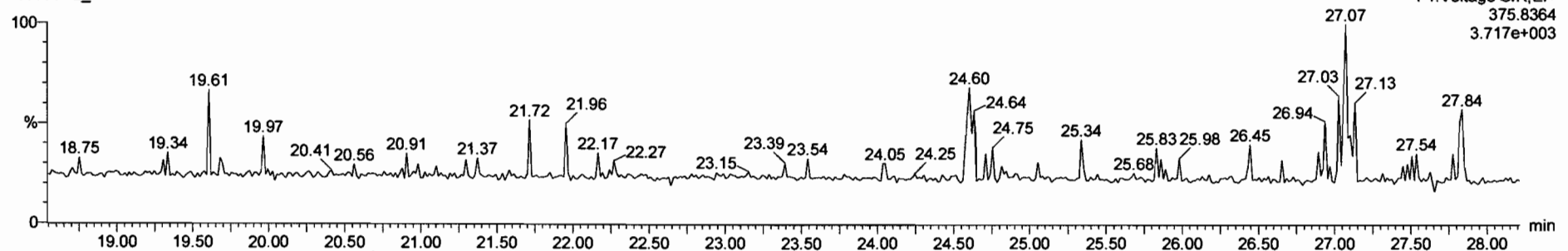


200930R2\_7



**DPE1**

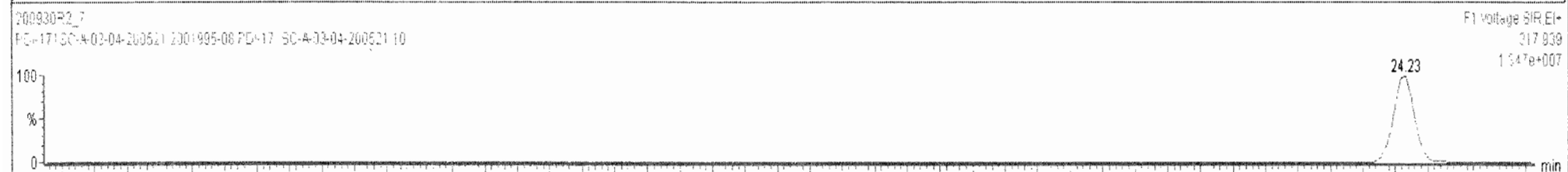
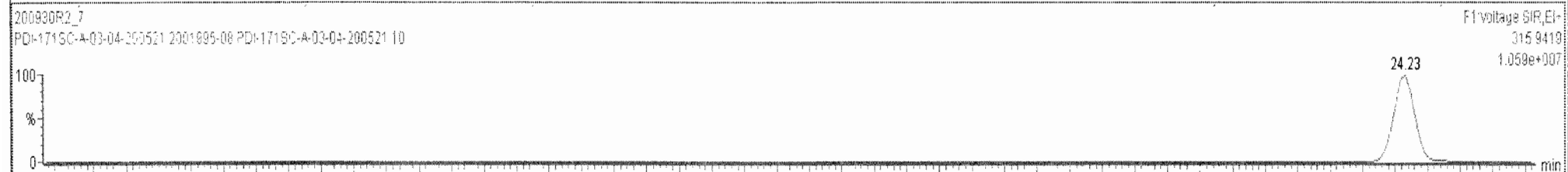
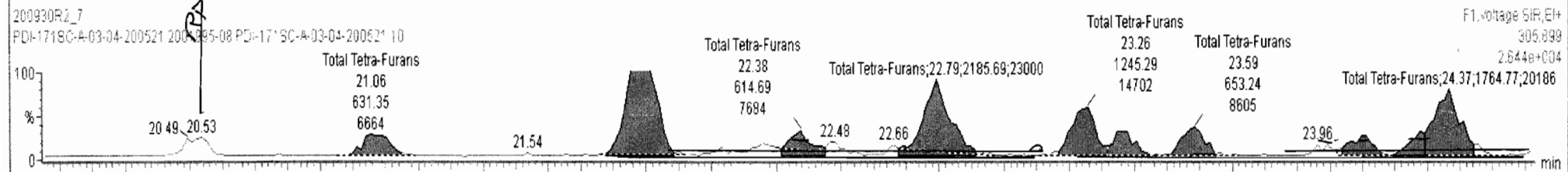
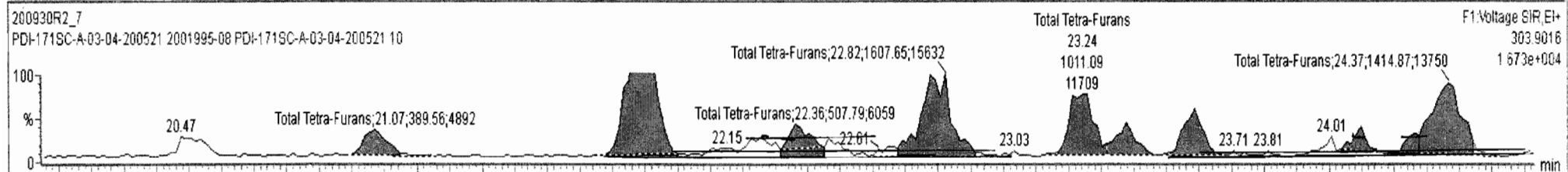
200930R2\_7



200930R2\_7 - 2001995-08 PDI-171SC-A-03-04-200521 10 - PDI-171SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.080			5.77		0.0875	6.50
44 1st Func. Penta-Furans				0.9386	10.080			3.08		0.0178	3.08
45 Total Penta-Furans				0.9386	10.080			5.41		0.0440	5.41

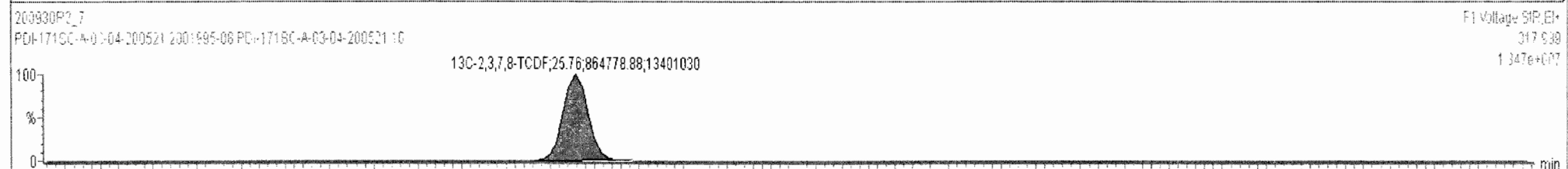
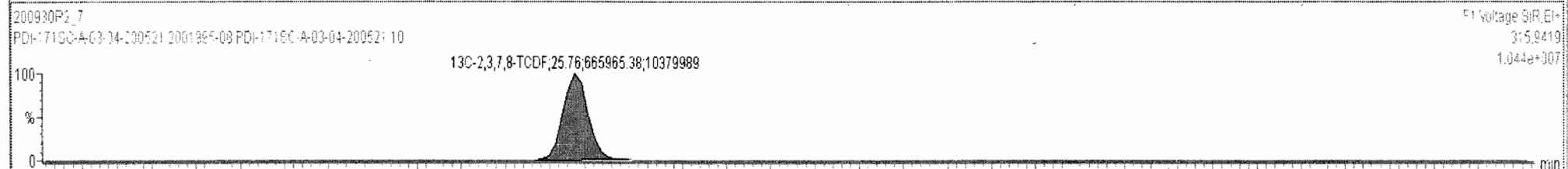
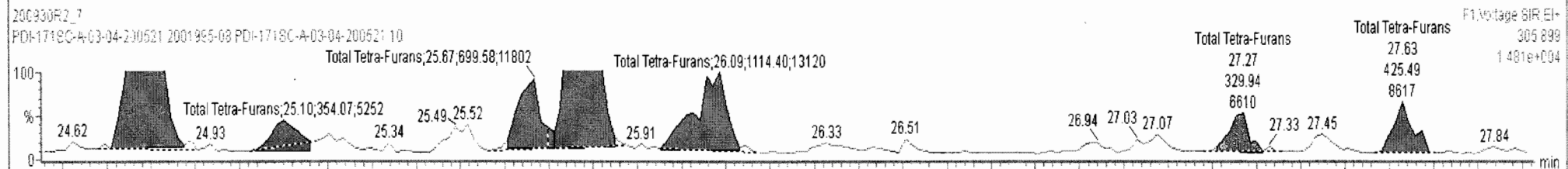
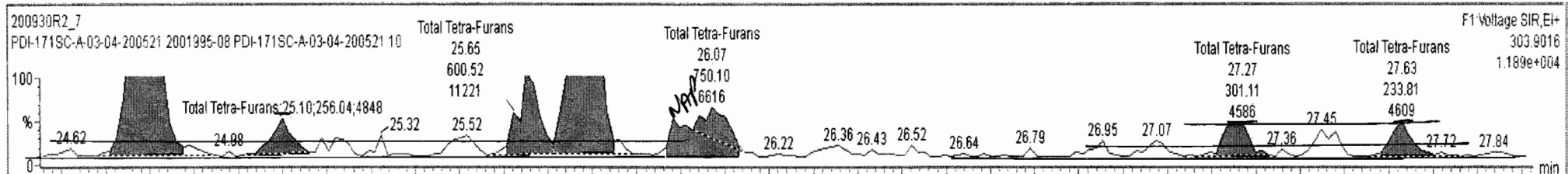
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.07	3.896e2	6.314e2	0.62	YES	0.15786	0.00000
2 Total Tetra-Furans	21.90	2.615e3	3.393e3	0.77	NO	1.0592	1.0592
3 Total Tetra-Furans	22.36	5.078e2	6.147e2	0.83	NO	0.19787	0.19787
4 Total Tetra-Furans	22.82	1.608e3	2.186e3	0.74	NO	0.66869	0.66869
5 Total Tetra-Furans	23.24	1.011e3	1.245e3	0.81	NO	0.39775	0.39775



200930R2\_7 - 2001995-08 PDI-171SC-A-03-04-200521 10 - PDI-171SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.080			5.88		0.0875	6.62
44 1st Func. Penta-Furans				0.9386	10.080			3.08		0.0178	3.08
45 Total Penta-Furans				0.9386	10.080			5.41		0.0440	5.41

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.07	3.896e2	6.314e2	0.62	YES	0.15786	0.00000
2 Total Tetra-Furans	21.90	2.615e3	3.393e3	0.77	NO	1.0592	1.0592
3 Total Tetra-Furans	22.36	5.078e2	6.147e2	0.83	NO	0.19787	0.19787
4 Total Tetra-Furans	22.82	1.608e3	2.186e3	0.74	NO	0.66869	0.66869
5 Total Tetra-Furans	23.24	1.011e3	1.245e3	0.81	NO	0.39775	0.39775



Dataset: Untitled

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Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

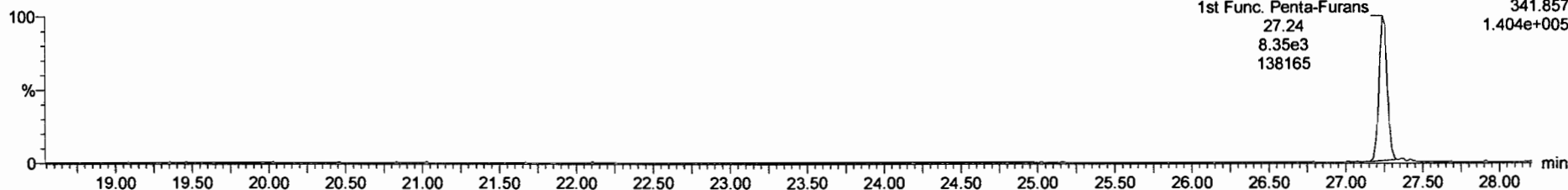
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1st Func. Penta-Furans

200930R2\_7

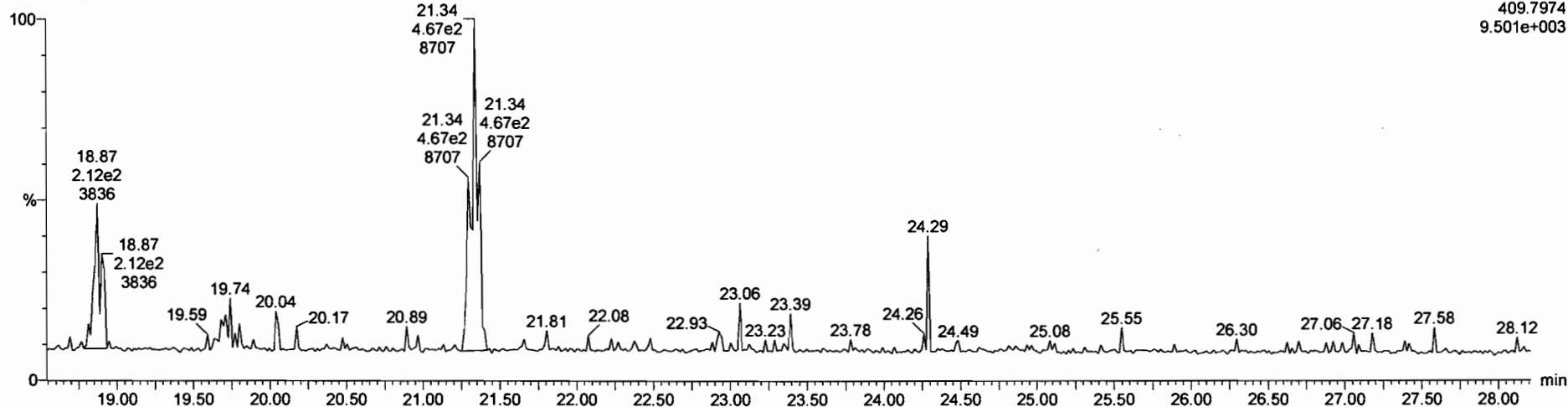


200930R2\_7



DPE6

200930R2\_7



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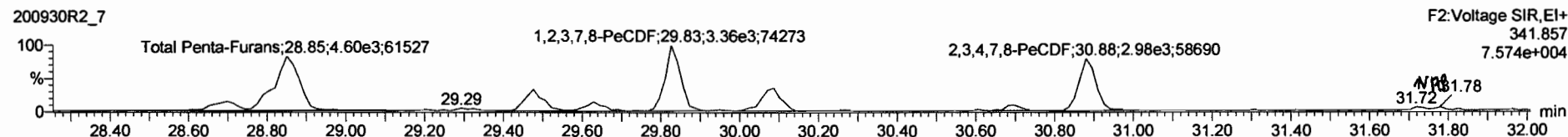
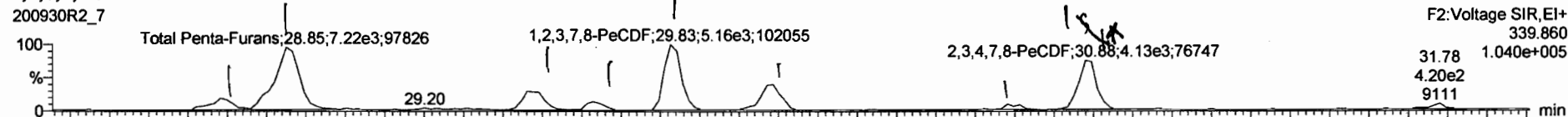
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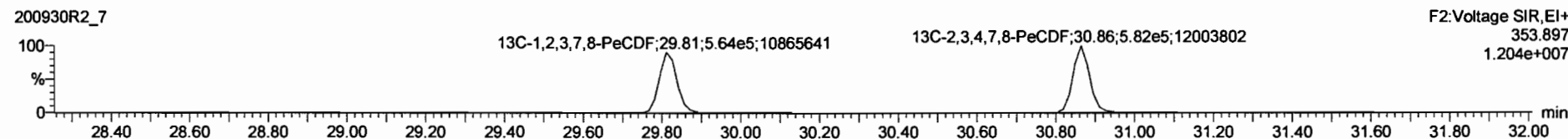
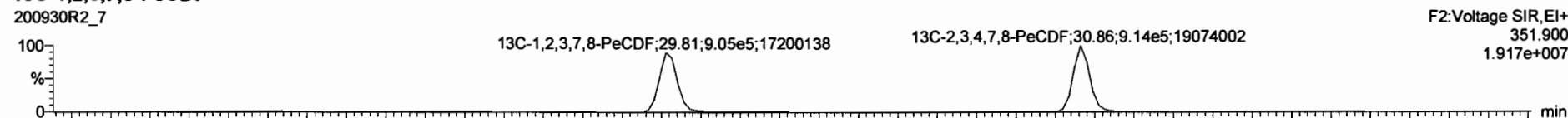
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Name: 200930R2\_7, Date: 01-Oct-2020, Time: 02:21:07, ID: 2001995-08 PDI-171SC-A-03-04-200521 10, Description: PDI-171SC-A-03-04-200521

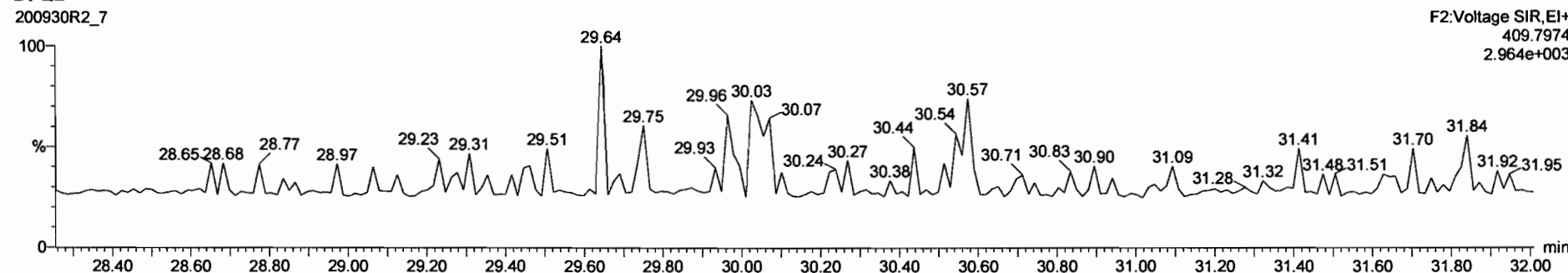
**1,2,3,7,8-PeCDF**



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



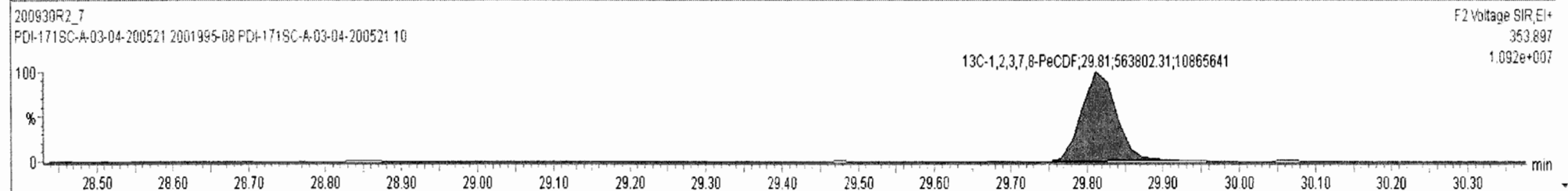
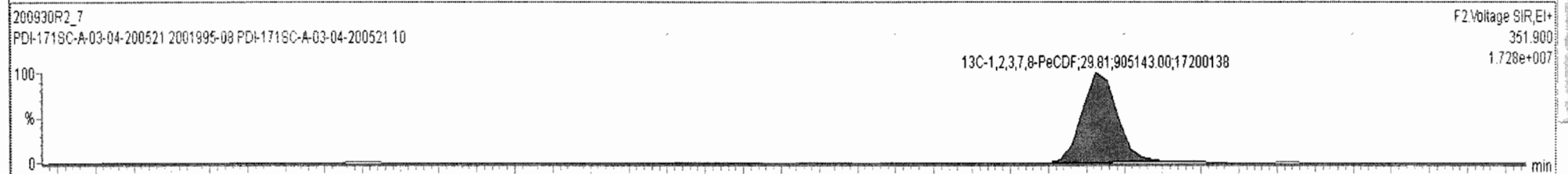
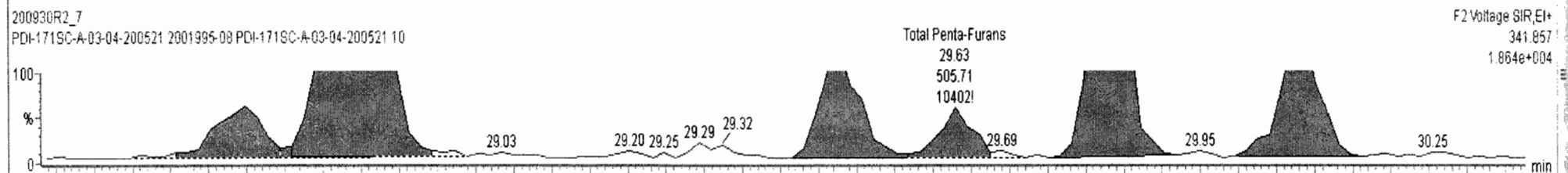
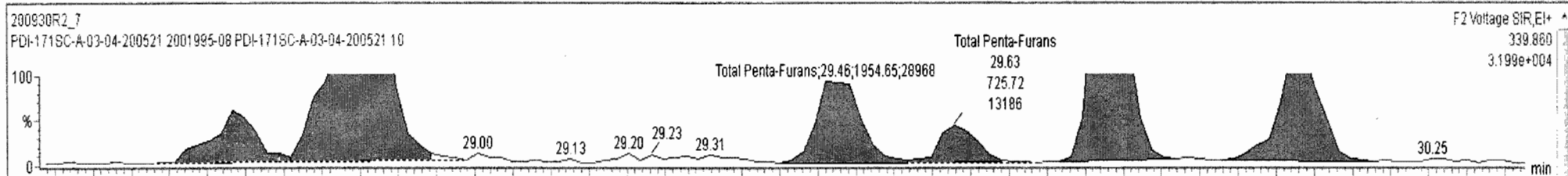
**DPE2**



200930R2\_7 - 2001995-08 PDI-171SC-A-03-04-200521 10 - PDI-171SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.8366	10.080			5.36		0.0440	5.38
46 Total Hexa-Furans				0.8699	10.080			15.6		0.0771	15.7
47 Total Hepta-Furans				0.8908	10.080			29.5		0.1431	29.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.68	1.225e3	7.960e2	1.54	NO	0.28826	0.28826
2 Total Penta-Furans	28.85	7.125e3	4.518e3	1.58	NO	1.6607	1.6607
3 Total Penta-Furans	29.46	1.955e3	1.326e3	1.47	NO	0.46801	0.46801
4 Total Penta-Furans	29.63	7.257e2	5.057e2	1.44	NO	0.17565	0.17565

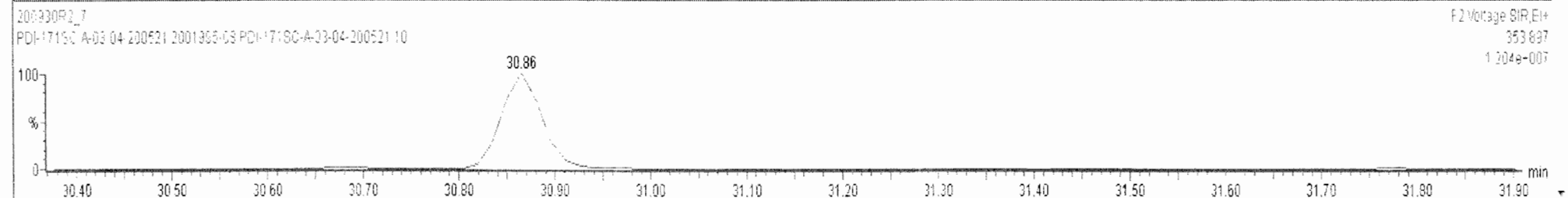
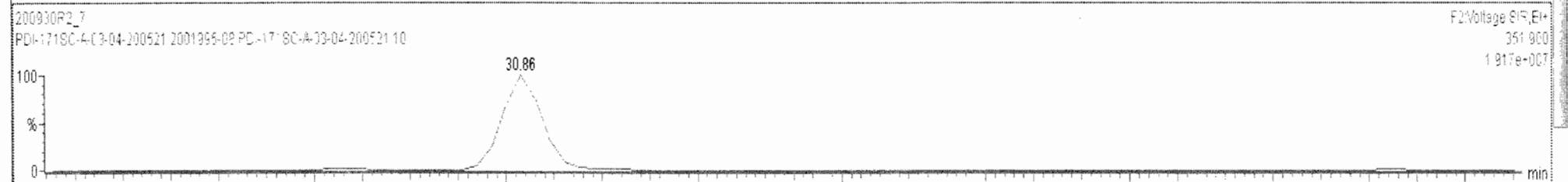
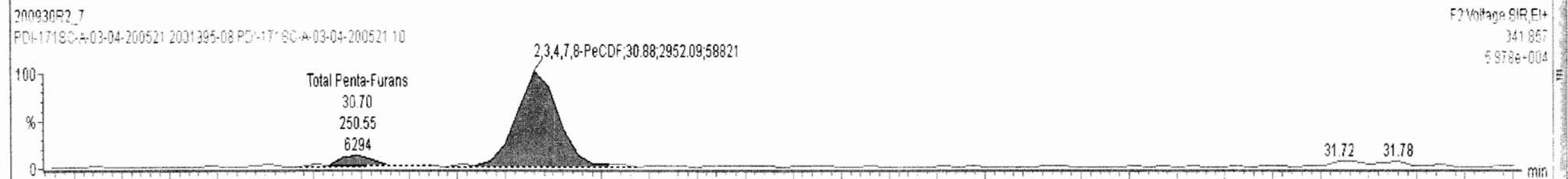
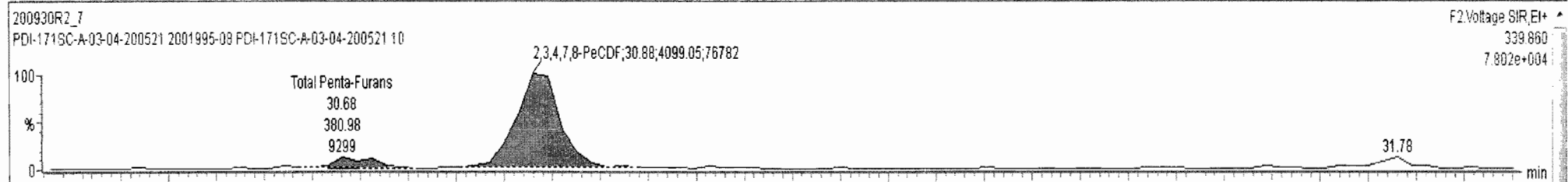




200930R2\_7 - 2001995-08 PDI-171SC-A-03-04-200521 10 - PDI-171SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.080			5.37		0.0440	5.37
46 Total Hexa-Furans				0.8699	10.080			15.7		0.0771	15.8
47 Total Hepta-Furans				0.8908	10.080			29.7		0.143	29.7

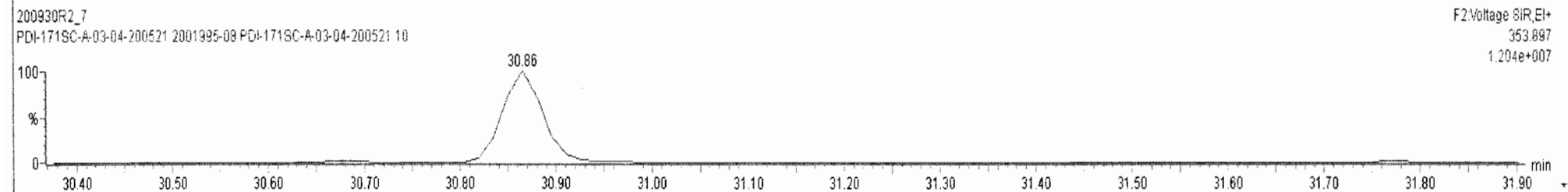
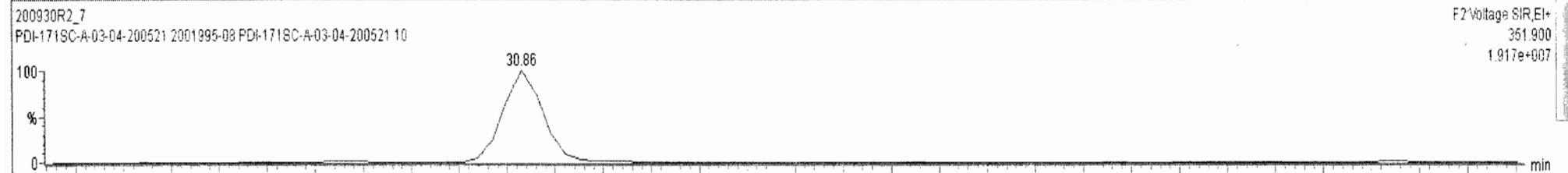
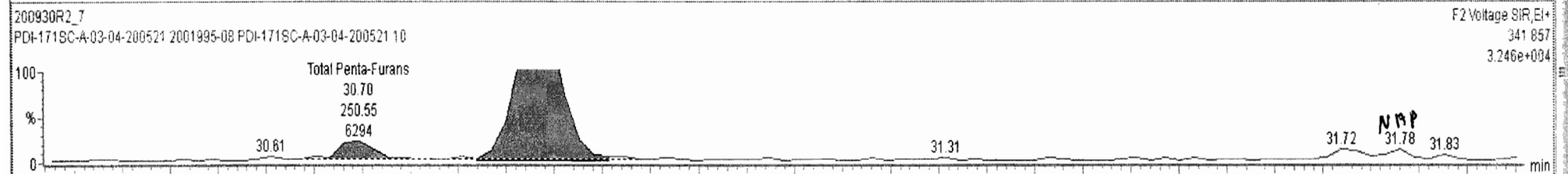
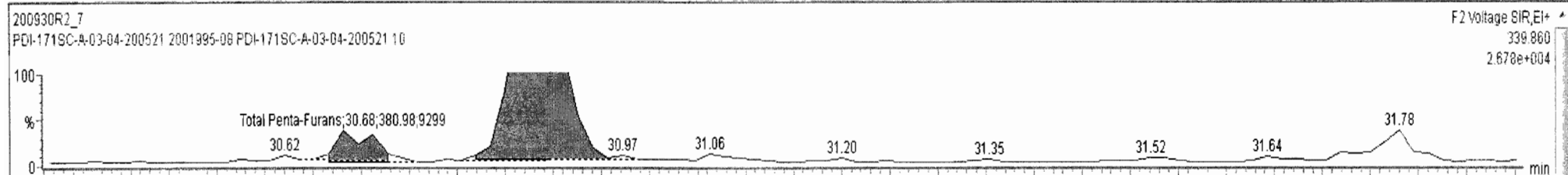
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.68	1.225e3	7.960e2	1.54	NO	0.28826	0.28826
2 Total Penta-Furans	28.85	7.125e3	4.518e3	1.58	NO	1.6607	1.6607
3 Total Penta-Furans	29.46	1.955e3	1.326e3	1.47	NO	0.46801	0.46801
4 Total Penta-Furans	30.63	7.257e3	5.067e3	1.44	NO	0.47666	0.47666



200930R2\_7 - 2001995-08 PDI-171SC-A-03-04-200521 10 - PDI-171SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9396	10.080			5.37		0.0440	5.37
46 Total Hexa-Furans				0.8699	10.080			15.7		0.0771	15.8
47 Total Hepta-Furans				0.8908	10.080			29.7		0.143	29.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.68	1.225e3	7.960e2	1.54	NO	0.28826	0.28826
2 Total Penta-Furans	28.85	7.125e3	4.518e3	1.58	NO	1.6607	1.6607
3 Total Penta-Furans	29.46	1.955e3	1.326e3	1.47	NO	0.46801	0.46801



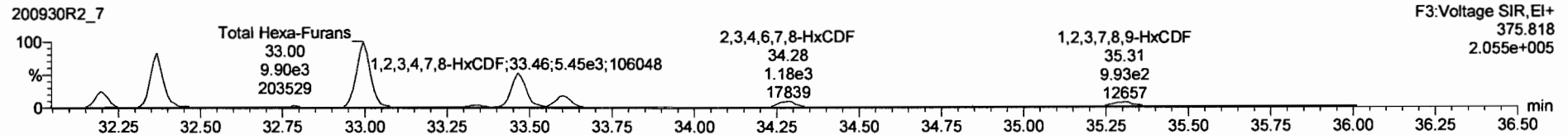
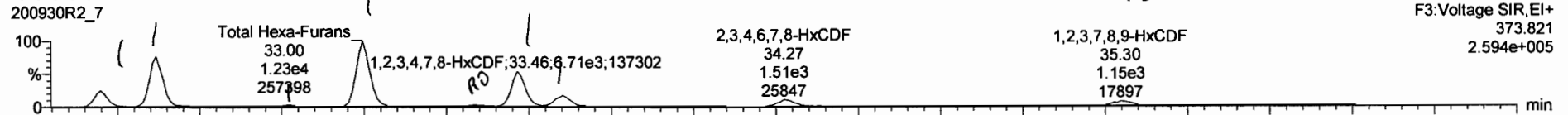
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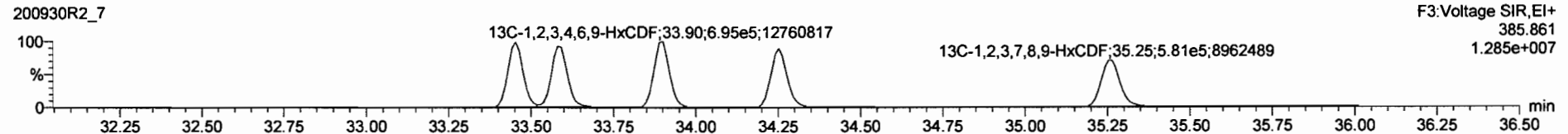
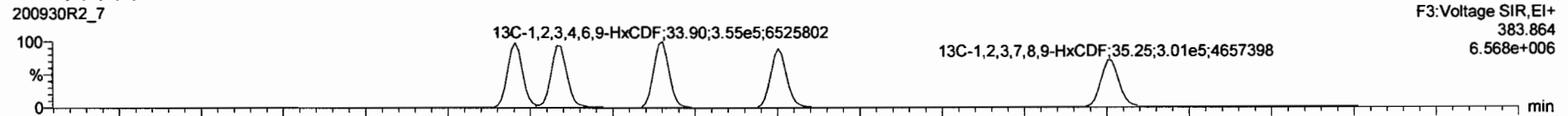
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Name: 200930R2\_7, Date: 01-Oct-2020, Time: 02:21:07, ID: 2001995-08 PDI-171SC-A-03-04-200521 10, Description: PDI-171SC-A-03-04-200521

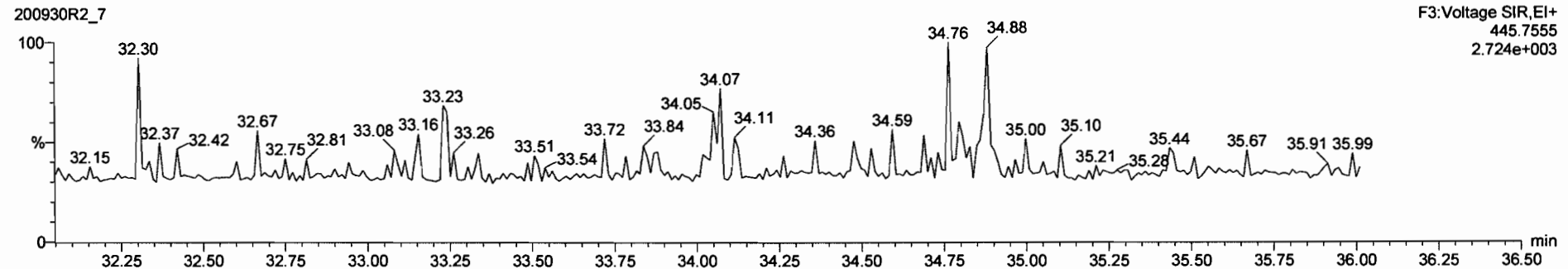
1,2,3,4,7,8-HxCDF



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



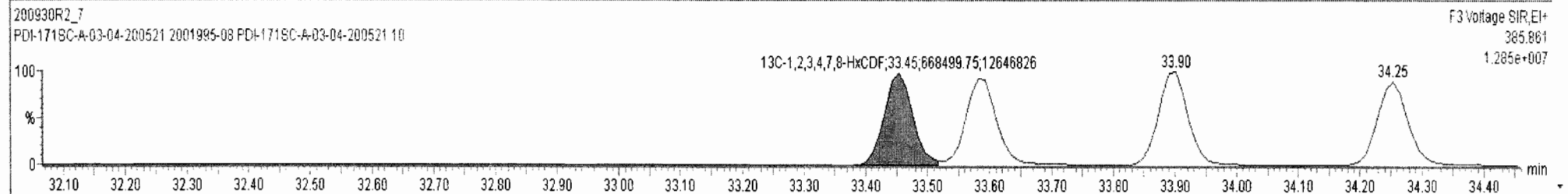
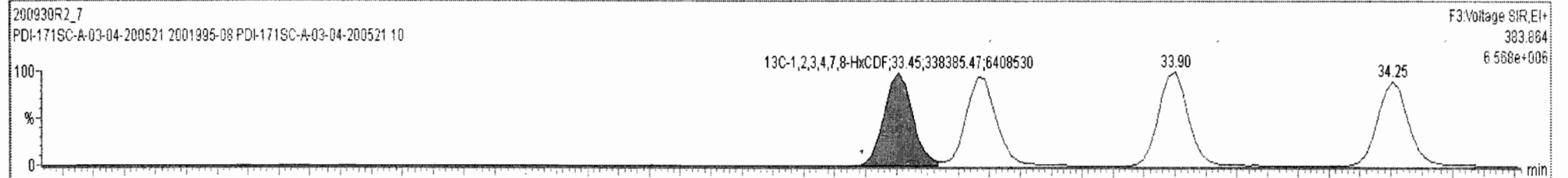
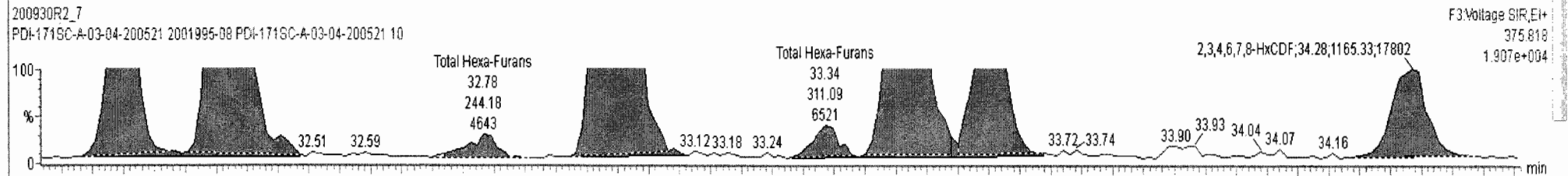
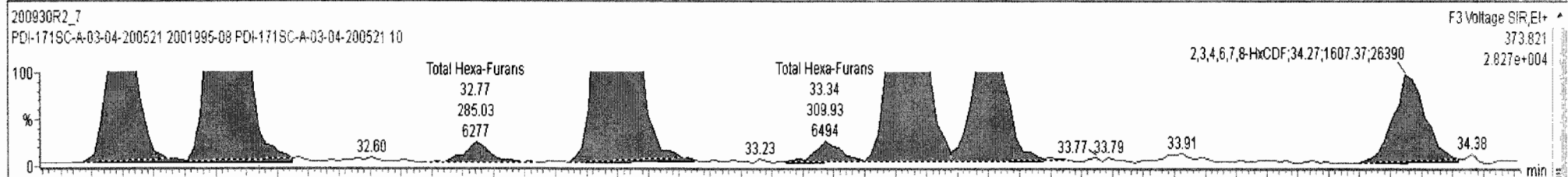
DPE3



200930R2\_7 - 2001995-08 PDI-171SC-A-03-04-200521 10 - PDI-171SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.080			5.36		0.0440	5.36
46 Total Hexa-Furans				0.8699	10.080			15.6		0.0771	15.9
47 Total Hepta-Furans				0.8908	10.080			29.5		0.143	29.5

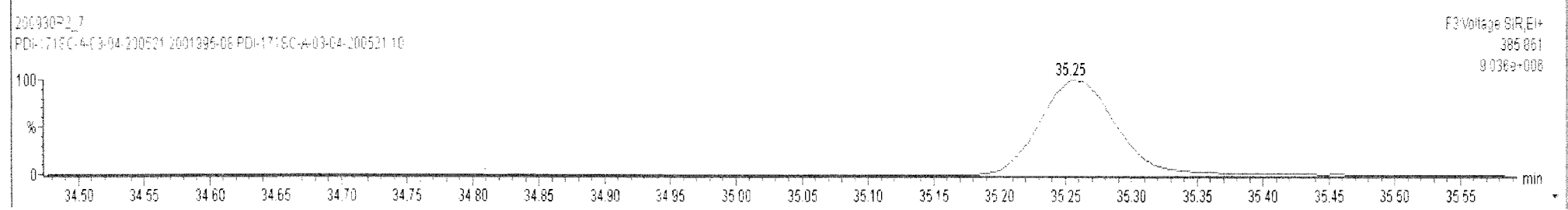
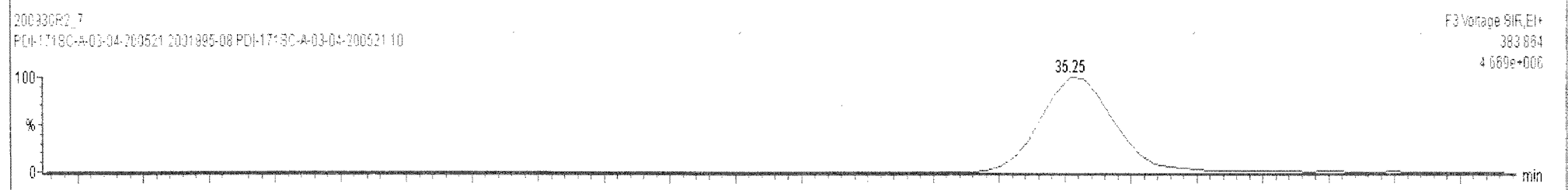
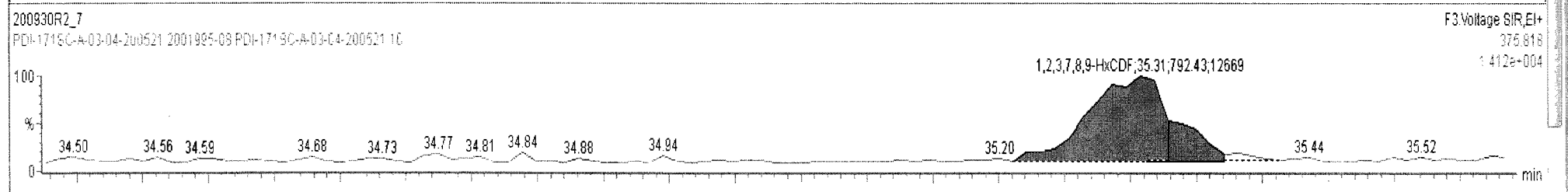
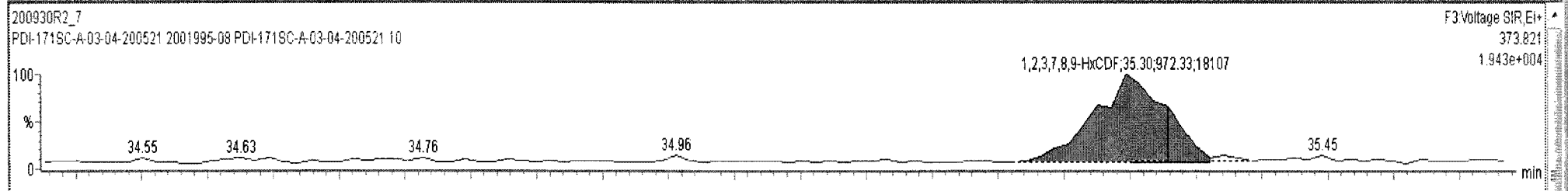
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	2.940e3	2.341e3	1.26	NO	1.2450	1.2450
2 Total Hexa-Furans	32.37	9.513e3	7.894e3	1.21	NO	4.1039	4.1039
3 Total Hexa-Furans	32.77	2.850e2	2.442e2	1.17	NO	0.12477	0.12477
4 Total Hexa-Furans	33.00	1.238e4	1.001e4	1.24	NO	5.2789	5.2789



200930R2\_7 - 2001995-08 PDI-171SC-A-03-04-200521 10 - PDI-171SC-A-03-04-200521

Name	Resp.	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.080			5.38		0.0440	5.38
46 Total Hexa-Furans				0.8699	10.080			15.6		0.0771	15.7
47 Total Henta-Furans				0.8908	10.080			29.51		0.1431	29.51

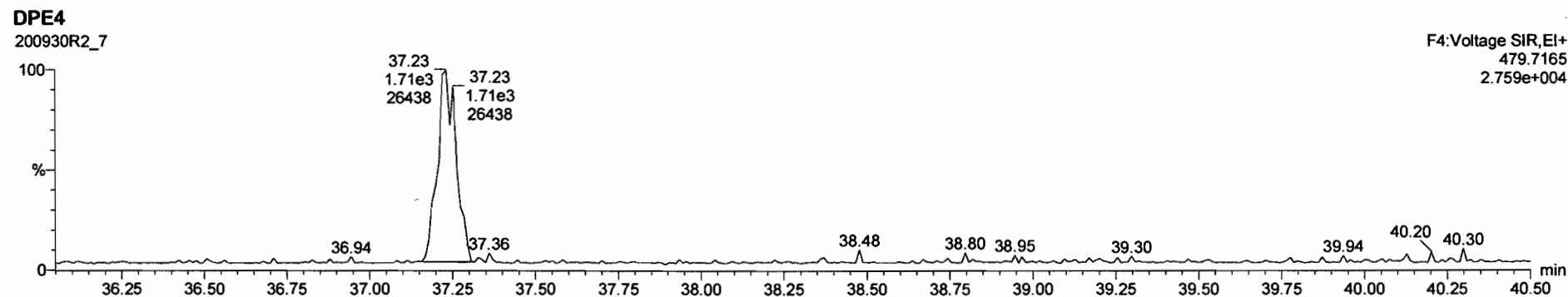
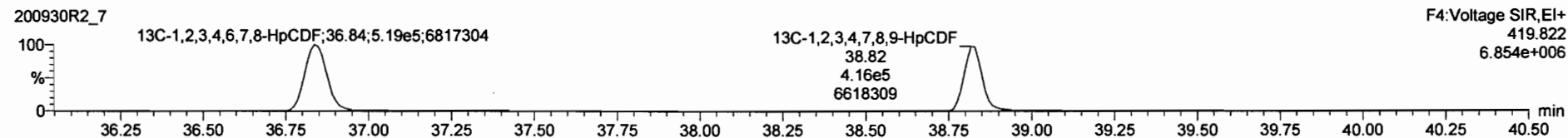
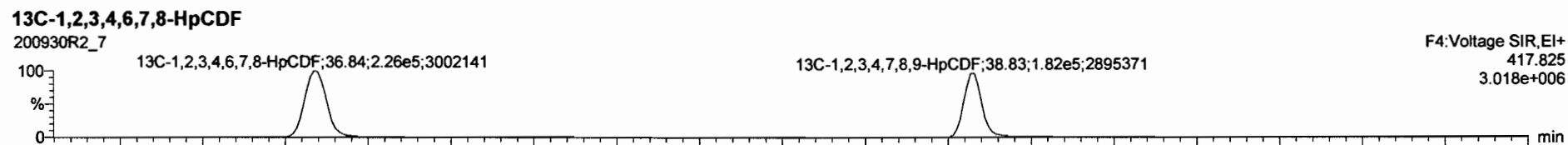
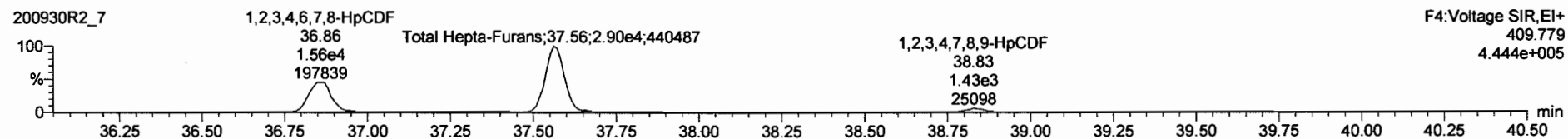
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	2.862e3	2.256e3	1.27	NO	1.2068	1.2068
2 Total Hexa-Furans	32.37	9.376e3	7.789e3	1.20	NO	4.0469	4.0469
3 Total Hexa-Furans	32.77	2.959e2	2.489e2	1.19	NO	0.12846	0.12846
4 Total Hexa-Furans	33.00	1.226e4	9.901e3	1.24	NO	5.2249	5.2249



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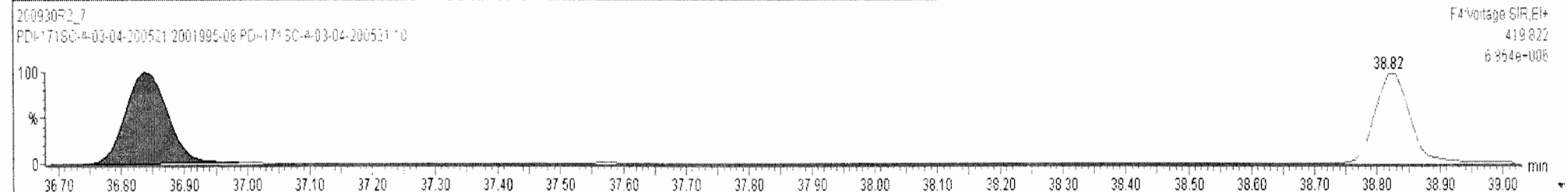
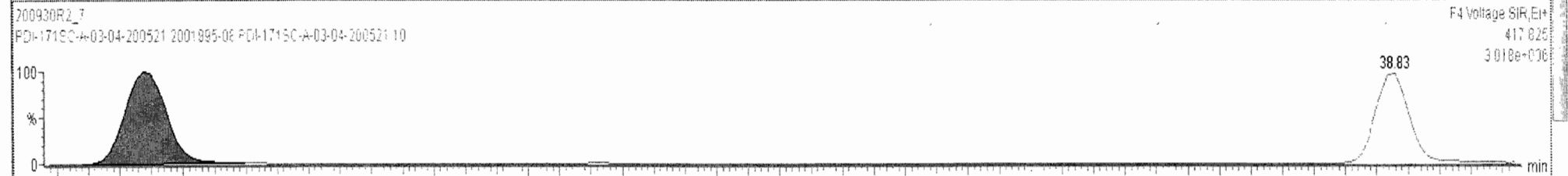
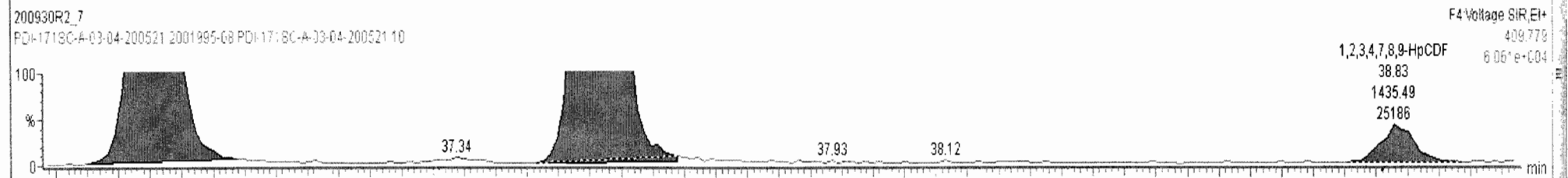
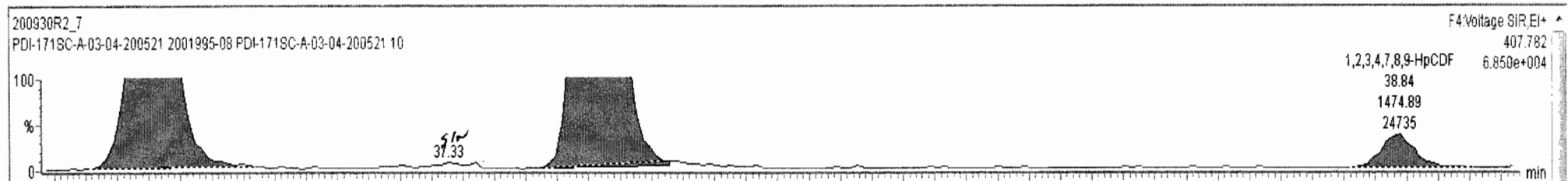
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200930R2\_7 - 2001995-08 PDI-1715C-A-03-04-200521 10 - PDI-1715C-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.080			5.38		0.0440	5.38
46 Total Hexa-Furans				0.8699	10.080			15.8		0.0771	15.9
47 Total Hepta-Furans				0.8998	10.080			28.7		0.143	28.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.86	1.536e4	1.558e4	0.99	NO	9.2547	9.2547
2 Total Hepta-Furans	37.57	2.947e4	2.935e4	1.00	NO	19.505	19.505
3 1,2,3,4,7,8,9-HpCDF	38.84	1.475e3	1.435e3	1.03	NO	0.96456	0.96456



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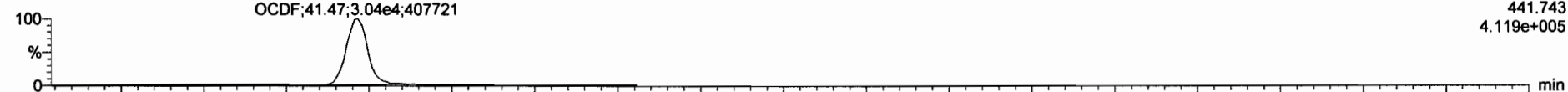
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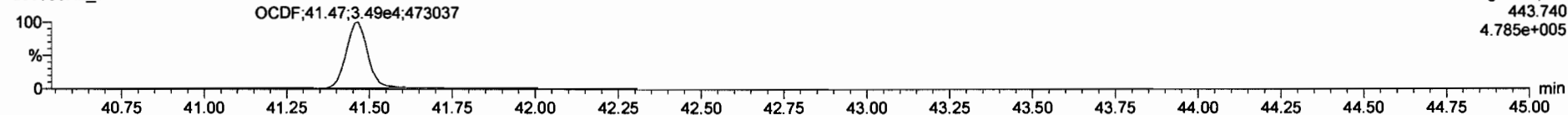
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**OCDF**

200930R2\_7

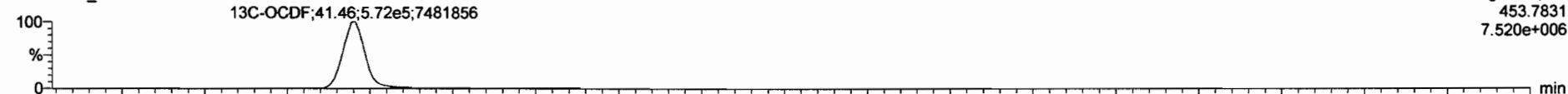


200930R2\_7

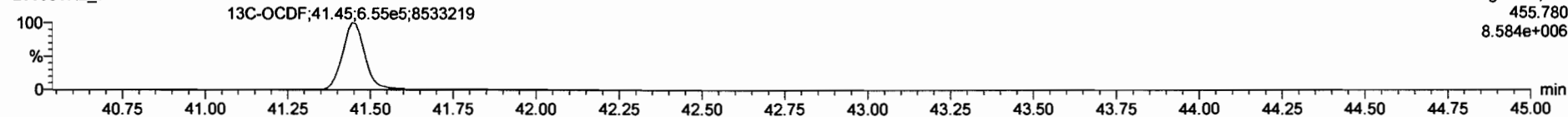


**13C-OCDF**

200930R2\_7

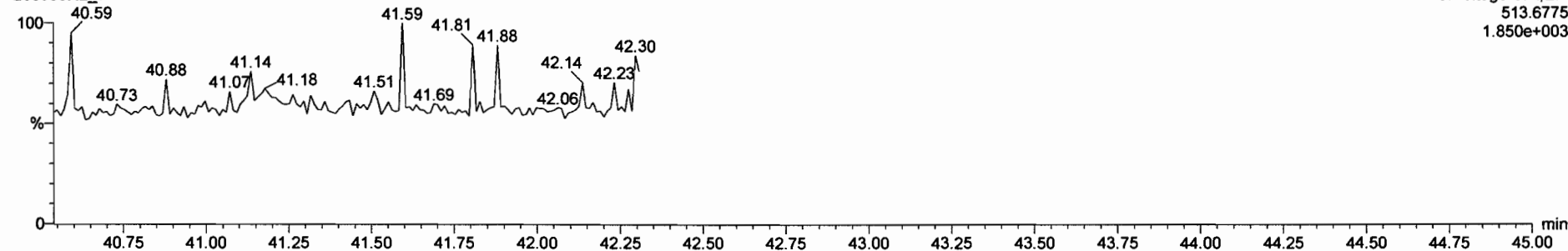


200930R2\_7



**DPE5**

200930R2\_7



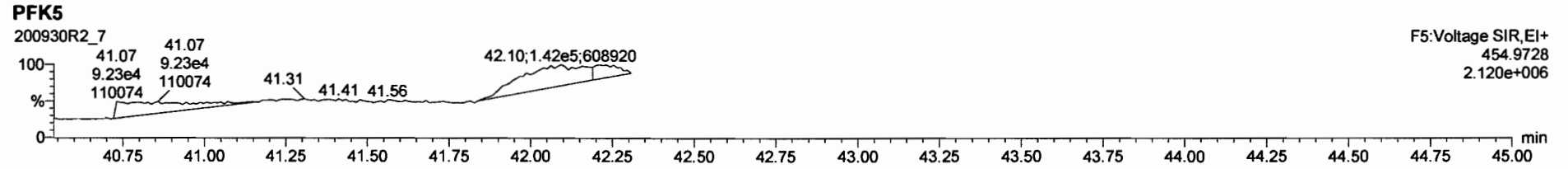
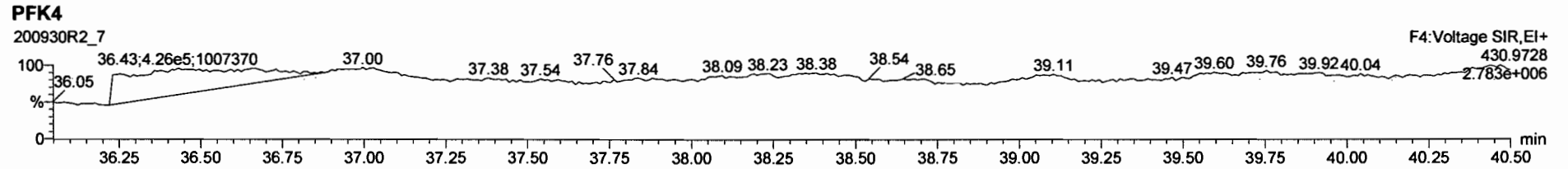
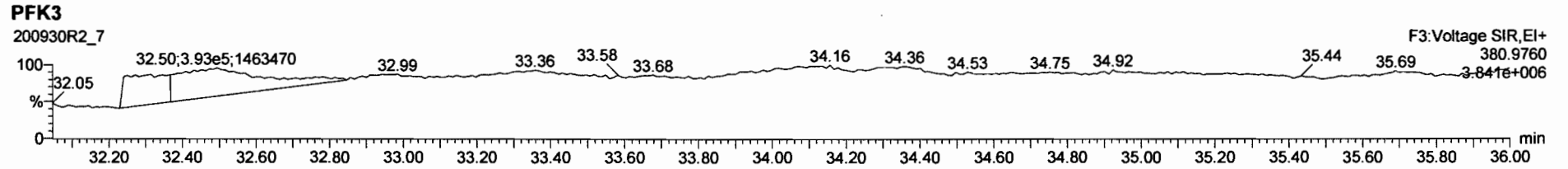
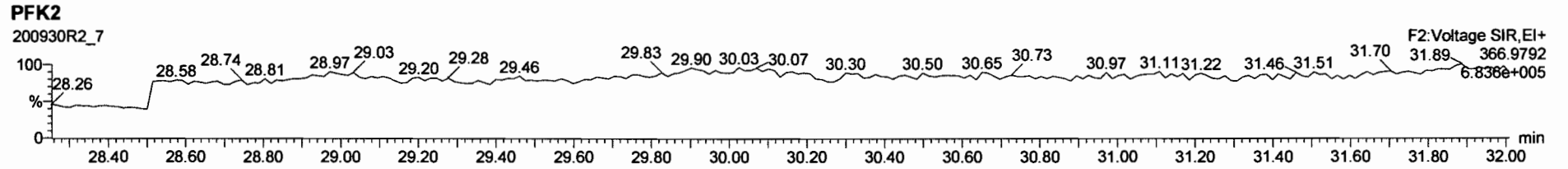
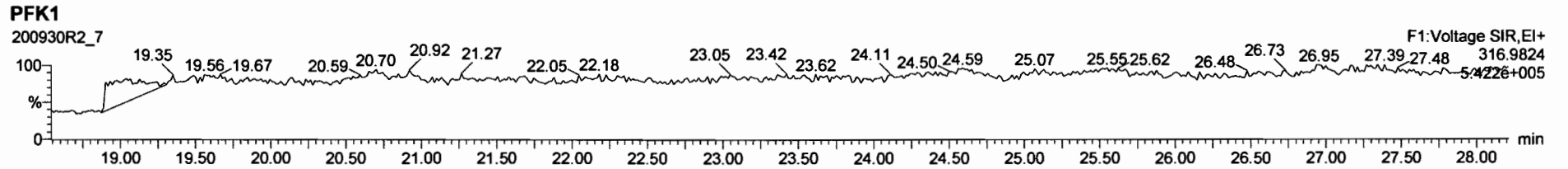


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*ML 10/22/20*

Name: 200930R2\_8, Date: 01-Oct-2020, Time: 03:04:51, ID: 2001995-09 PDI-171SC-A-04-05-200521 10, Description: PDI-171SC-A-04-05-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.53e3	0.33	YES	1.02	10.015	26.448	26.45	1.001	1.001	0.28780		0.0303	0.164
2	2 1,2,3,7,8-PeCDD	1.23e3	0.64	NO	0.956	10.015	31.070	31.08	1.001	1.001	0.18486		0.0484	0.185
3	3 1,2,3,4,7,8-HxCDD	1.08e3	1.14	NO	1.00	10.015	34.369	34.38	1.000	1.001	0.21284		0.0779	0.213
4	4 1,2,3,6,7,8-HxCDD	4.13e3	1.29	NO	0.888	10.015	34.487	34.50	1.000	1.000	0.82541		0.0804	0.825
5	5 1,2,3,7,8,9-HxCDD	2.43e3	1.27	NO	0.909	10.015	34.763	34.76	1.000	1.000	0.48564		0.0845	0.486
6	6 1,2,3,4,6,7,8-HpCDD	8.34e4	0.98	NO	0.832	10.015	38.211	38.22	1.000	1.001	21.948		0.232	21.9
7	7 OCDD	6.12e5	0.87	NO	0.862	10.015	41.125	41.15	1.000	1.001	199.44		0.438	199
8	8 2,3,7,8-TCDF	4.66e4	0.74	NO	0.735	10.015	25.756	25.77	1.000	1.001	5.6787		0.0359	5.68
9	9 1,2,3,7,8-PeCDF	2.09e4	1.59	NO	0.939	10.015	29.833	29.83	1.001	1.001	2.3118		0.0438	2.31
10	10 2,3,4,7,8-PeCDF	1.82e4	1.60	NO	1.05	10.015	30.884	30.88	1.001	1.000	1.8187		0.0399	1.82
11	11 1,2,3,4,7,8-HxCDF	1.19e4	1.21	NO	0.842	10.015	33.443	33.46	1.000	1.001	2.2728		0.0450	2.27
12	12 1,2,3,6,7,8-HxCDF	3.59e3	1.11	NO	0.894	10.015	33.592	33.60	1.000	1.001	0.64951		0.0438	0.650
13	13 2,3,4,6,7,8-HxCDF	2.15e3	1.11	NO	0.870	10.015	34.273	34.28	1.001	1.001	0.41715		0.0494	0.417
14	14 1,2,3,7,8,9-HxCDF	1.75e3	1.19	NO	0.855	10.015	35.285	35.31	1.001	1.001	0.37722		0.0609	0.377
15	15 1,2,3,4,6,7,8-HpCDF	1.53e4	1.03	NO	0.891	10.015	36.884	36.87	1.001	1.001	3.8904		0.0859	3.89
16	16 1,2,3,4,7,8,9-HpCDF	2.20e3	1.04	NO	1.00	10.015	38.818	38.84	1.000	1.001	0.59842		0.0763	0.598
17	17 OCDF	3.38e4	0.86	NO	0.784	10.015	41.423	41.43	1.000	1.000	11.459		0.0830	11.5
18	18 13C-2,3,7,8-TCDD	1.73e6	0.79	NO	1.15	10.015	26.405	26.42	1.029	1.029	239.72	120	0.148	
19	19 13C-1,2,3,7,8-PeCDD	1.39e6	0.62	NO	0.887	10.015	30.994	31.05	1.207	1.210	250.08	125	0.161	
20	20 13C-1,2,3,4,7,8-HxCDD	1.01e6	1.28	NO	0.801	10.015	34.361	34.36	1.014	1.014	230.22	115	0.328	
21	21 13C-1,2,3,6,7,8-HxCDD	1.12e6	1.28	NO	0.892	10.015	34.490	34.49	1.018	1.018	230.05	115	0.295	
22	22 13C-1,2,3,7,8,9-HxCDD	1.10e6	1.25	NO	0.882	10.015	34.751	34.75	1.025	1.025	226.88	114	0.298	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.12e5	1.05	NO	0.719	10.015	38.184	38.20	1.127	1.127	231.55	116	0.532	
24	24 13C-OCDD	1.42e6	0.89	NO	0.563	10.015	41.112	41.13	1.213	1.213	461.10	115	0.550	
25	25 13C-2,3,7,8-TCDF	2.23e6	0.78	NO	1.01	10.015	25.748	25.74	1.003	1.003	245.31	123	0.203	
26	26 13C-1,2,3,7,8-PeCDF	1.93e6	1.59	NO	0.814	10.015	29.754	29.81	1.159	1.161	262.79	132	0.405	
27	27 13C-2,3,4,7,8-PeCDF	1.91e6	1.60	NO	0.768	10.015	30.791	30.86	1.200	1.202	275.65	138	0.430	
28	28 13C-1,2,3,4,7,8-HxCDF	1.25e6	0.51	NO	0.993	10.015	33.439	33.44	0.987	0.987	229.18	115	0.377	
29	29 13C-1,2,3,6,7,8-HxCDF	1.24e6	0.51	NO	0.990	10.015	33.582	33.58	0.991	0.991	227.97	114	0.377	
30	30 13C-2,3,4,6,7,8-HxCDF	1.18e6	0.50	NO	0.944	10.015	34.249	34.25	1.011	1.011	228.88	115	0.396	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	1.08e6	0.50	NO	0.842	10.015	35.266	35.26	1.041	1.041	234.59	117	0.444	
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.84e5	0.43	NO	0.687	10.015	36.855	36.85	1.087	1.087	234.98	118	0.526	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.34e5	0.43	NO	0.555	10.015	38.804	38.82	1.145	1.145	241.52	121	0.651	
34	34 13C-OCDF	1.50e6	0.87	NO	0.608	10.015	41.393	41.42	1.221	1.222	450.78	113	0.357	
35	35 37Cl-2,3,7,8-TCDD	6.49e5			1.18	10.015	26.435	26.45	1.030	1.030	88.226	110	0.0356	
36	36 13C-1,2,3,4-TCDD	1.25e6	0.79	NO	1.00	10.015	25.740	25.67	1.000	1.000	199.69	100	0.170	
37	37 13C-1,2,3,4-TCDF	1.80e6	0.79	NO	1.00	10.015	24.310	24.22	1.000	1.000	199.69	100	0.204	
38	38 13C-1,2,3,4,6,9-HxCDF	1.09e6	0.51	NO	1.00	10.015	33.920	33.89	1.000	1.000	199.69	100	0.374	
39	39 Total Tetra-Dioxins				1.02	10.015	24.620		0.000		2.6299		0.0303	3.15
40	40 Total Penta-Dioxins				0.956	10.015	29.960		0.000		1.2480		0.0484	1.86
41	41 Total Hexa-Dioxins				0.888	10.015	33.635		0.000		9.1991		0.0848	9.20
42	42 Total Hepta-Dioxins				0.832	10.015	37.640		0.000		52.835		0.232	52.8
43	43 Total Tetra-Furans				0.735	10.015	23.610		0.000		19.323		0.0359	19.7
44	44 1st Func. Penta-Furans				0.939	10.015	27.230		0.000		1.9438		0.0113	1.94
45	45 Total Penta-Furans				0.939	10.015	29.275		0.000		8.2251		0.0442	8.23
46	46 Total Hexa-Furans				0.870	10.015	33.555		0.000		9.4818		0.0491	9.48
47	47 Total Hepta-Furans				0.891	10.015	37.835		0.000		12.388		0.0858	12.4

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R2\_8, Date: 01-Oct-2020, Time: 03:04:51, ID: 2001995-09 PDI-171SC-A-04-05-200521 10, Description: PDI-171SC-A-04-05-200521

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.73	2.126e4	2.665e4	1.548e3	2.218e3	0.70	NO	3.766e3	0.42899	0.42899	0.0303
2	Total Tetra-Dioxins	23.06	1.072e4	1.259e4	9.916e2	1.101e3	0.90	YES	0.000e0	0.00000	0.22204	0.0303
3	Total Tetra-Dioxins	23.57	5.654e3	6.758e3	4.230e2	5.904e2	0.72	NO	1.013e3	0.11544	0.11544	0.0303
4	Total Tetra-Dioxins	24.41	1.344e4	1.783e4	9.829e2	1.207e3	0.81	NO	2.190e3	0.24947	0.24947	0.0303
5	Total Tetra-Dioxins	24.60	6.895e3	9.460e3	5.453e2	7.530e2	0.72	NO	1.298e3	0.14789	0.14789	0.0303
6	Total Tetra-Dioxins	24.84	9.620e3	9.131e3	6.016e2	6.557e2	0.92	YES	0.000e0	0.00000	0.13219	0.0303
7	Total Tetra-Dioxins	25.40	4.628e3	7.856e3	2.798e2	4.178e2	0.67	NO	6.976e2	0.079465	0.079465	0.0303
8	Total Tetra-Dioxins	26.16	9.268e4	1.252e5	6.080e3	8.043e3	0.76	NO	1.412e4	1.6087	1.6087	0.0303
9	2,3,7,8-TCDD	26.45	1.104e4	2.635e4	6.276e2	1.899e3	0.33	YES	2.527e3	0.00000	0.16433	0.0303

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.83	2.279e4	2.950e4	1.646e3	2.541e3	0.65	NO	4.187e3	0.63116	0.63116	0.0484
2	Total Penta-Dioxins	29.31	8.529e3	2.004e4	5.588e2	1.107e3	0.50	YES	0.000e0	0.00000	0.21794	0.0484
3	Total Penta-Dioxins	29.83	1.650e4	1.711e4	2.400e2	2.956e2	0.81	YES	0.000e0	0.00000	0.072639	0.0484
4	Total Penta-Dioxins	30.01	1.089e4	1.419e4	6.696e2	1.314e3	0.51	YES	0.000e0	0.00000	0.26117	0.0484
5	Total Penta-Dioxins	30.28	1.541e4	1.957e4	9.450e2	1.409e3	0.67	NO	2.354e3	0.35488	0.35488	0.0484
6	Total Penta-Dioxins	30.62	3.736e3	5.259e3	2.014e2	3.098e2	0.65	NO	5.112e2	0.077060	0.077060	0.0484
7	1,2,3,7,8-PeCDD	31.08	8.887e3	1.435e4	4.774e2	7.489e2	0.64	NO	1.226e3	0.18486	0.18486	0.0484
8	Total Penta-Dioxins	31.41	6.267e3	5.983e3	1.596e2	4.463e2	0.36	YES	0.000e0	0.00000	0.062237	0.0484

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**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.73	1.874e5	1.537e5	9.342e3	7.541e3	1.24	NO	1.688e4	3.5253	3.5253	0.0848
2	Total Hexa-Dioxins	33.33	2.064e4	1.605e4	1.099e3	8.778e2	1.25	NO	1.977e3	0.41278	0.41278	0.0848
3	Total Hexa-Dioxins	33.61	1.158e5	9.440e4	8.450e3	6.969e3	1.21	NO	1.542e4	3.2195	3.2195	0.0848
4	Total Hexa-Dioxins	33.73	1.566e4	1.397e4	8.984e2	7.045e2	1.28	NO	1.603e3	0.33470	0.33470	0.0848
5	1,2,3,4,7,8-HxCDD	34.38	1.369e4	1.079e4	5.755e2	5.035e2	1.14	NO	1.079e3	0.21284	0.21284	0.0779
6	1,2,3,6,7,8-HxCDD	34.50	3.886e4	3.274e4	2.326e3	1.799e3	1.29	NO	4.125e3	0.82541	0.82541	0.0804
7	Total Hexa-Dioxins	34.66	9.222e3	6.812e3	5.032e2	3.734e2	1.35	NO	8.766e2	0.18303	0.18303	0.0848
8	1,2,3,7,8,9-HxCDD	34.76	2.270e4	1.536e4	1.359e3	1.066e3	1.27	NO	2.425e3	0.48564	0.48564	0.0845

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.24	8.445e5	7.940e5	5.877e4	5.854e4	1.00	NO	1.173e5	30.886	30.886	0.232
2	1,2,3,4,6,7,8-HpCDD	38.22	7.122e5	7.107e5	4.136e4	4.200e4	0.98	NO	8.336e4	21.948	21.948	0.232

Vista Analytical Laboratory

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**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.50	6.514e3	1.077e4	5.932e2	8.648e2	0.69	NO	1.458e3	0.17751	0.17751	0.0359
2	Total Tetra-Furans	21.06	9.702e3	1.120e4	7.981e2	1.012e3	0.79	NO	1.810e3	0.22038	0.22038	0.0359
3	Total Tetra-Furans	21.87	4.431e4	5.675e4	3.867e3	5.383e3	0.72	NO	9.250e3	1.1262	1.1262	0.0359
4	Total Tetra-Furans	22.24	8.346e3	8.372e3	6.095e2	7.209e2	0.85	NO	1.330e3	0.16198	0.16198	0.0359
5	Total Tetra-Furans	22.36	1.153e4	1.701e4	9.454e2	1.427e3	0.66	NO	0.000e0	0.00000	0.28881	0.0359
6	Total Tetra-Furans	22.45	9.805e3	1.221e4	8.850e2	1.064e3	0.83	NO	1.949e3	0.23730	0.23730	0.0359
7	Total Tetra-Furans	22.76	6.468e4	8.838e4	6.095e3	8.411e3	0.72	NO	1.451e4	1.7661	1.7661	0.0359
8	Total Tetra-Furans	23.21	3.252e4	4.902e4	2.791e3	4.023e3	0.69	NO	6.814e3	0.82967	0.82967	0.0359
9	Total Tetra-Furans	23.35	1.137e4	1.454e4	7.857e2	9.620e2	0.82	NO	1.748e3	0.21278	0.21278	0.0359
10	Total Tetra-Furans	23.57	1.956e4	2.629e4	1.623e3	2.255e3	0.72	NO	3.878e3	0.47210	0.47210	0.0359
11	Total Tetra-Furans	23.98	5.402e3	8.255e3	4.070e2	5.293e2	0.77	NO	9.363e2	0.11400	0.11400	0.0359
12	Total Tetra-Furans	24.07	6.134e3	9.678e3	4.808e2	6.618e2	0.73	NO	1.143e3	0.13912	0.13912	0.0359
13	Total Tetra-Furans	24.32	3.554e4	4.288e4	4.391e3	5.681e3	0.77	NO	1.007e4	1.2263	1.2263	0.0359
14	Total Tetra-Furans	24.77	2.761e5	3.431e5	1.799e4	2.332e4	0.77	NO	4.130e4	5.0289	5.0289	0.0359
15	Total Tetra-Furans	25.08	1.645e4	2.051e4	1.133e3	1.401e3	0.81	NO	2.534e3	0.30848	0.30848	0.0359
16	Total Tetra-Furans	25.64	4.292e4	6.132e4	2.870e3	3.845e3	0.75	NO	6.715e3	0.81751	0.81751	0.0359
17	2,3,7,8-TCDF	25.77	3.091e5	4.181e5	1.989e4	2.675e4	0.74	NO	4.664e4	5.6787	5.6787	0.0359
18	Total Tetra-Furans	26.07	2.090e4	2.551e4	1.359e3	1.697e3	0.80	NO	3.057e3	0.37218	0.37218	0.0359
19	Total Tetra-Furans	27.43	1.339e4	9.983e3	8.161e2	4.885e2	1.67	YES	0.000e0	0.00000	0.10528	0.0359
20	Total Tetra-Furans	27.63	2.716e4	3.827e4	1.508e3	2.056e3	0.73	NO	3.564e3	0.43390	0.43390	0.0359

**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	27.24	1.745e5	1.146e5	1.073e4	6.786e3	1.58	NO	1.751e4	1.9438	1.9438	0.0113

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**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.68	1.615e4	1.114e4	1.150e3	7.871e2	1.46	NO	1.937e3	0.21495	0.21495	0.0442
2	Total Penta-Furans	28.85	1.682e5	1.052e5	1.082e4	6.728e3	1.61	NO	1.755e4	1.9476	1.9476	0.0442
3	Total Penta-Furans	29.48	3.487e4	2.616e4	2.149e3	1.457e3	1.48	NO	3.606e3	0.40022	0.40022	0.0442
4	Total Penta-Furans	29.63	4.488e4	2.643e4	1.923e3	1.323e3	1.45	NO	3.246e3	0.36030	0.36030	0.0442
5	1,2,3,7,8-PeCDF	29.83	2.561e5	1.631e5	1.286e4	8.077e3	1.59	NO	2.094e4	2.3118	2.3118	0.0438
6	Total Penta-Furans	30.07	9.829e4	6.754e4	5.171e3	3.177e3	1.63	NO	8.347e3	0.92648	0.92648	0.0442
7	Total Penta-Furans	30.70	6.831e3	4.754e3	2.955e2	1.960e2	1.51	NO	4.915e2	0.054551	0.054551	0.0442
8	2,3,4,7,8-PeCDF	30.88	2.226e5	1.454e5	1.121e4	7.012e3	1.60	NO	1.822e4	1.8187	1.8187	0.0399
9	Total Penta-Furans	31.78	1.496e4	9.959e3	9.894e2	7.276e2	1.36	NO	1.717e3	0.19057	0.19057	0.0442

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.19	3.647e4	2.683e4	1.652e3	1.309e3	1.26	NO	2.961e3	0.57271	0.57271	0.0491
2	Total Hexa-Furans	32.36	1.105e5	9.005e4	5.245e3	4.379e3	1.20	NO	9.624e3	1.8612	1.8612	0.0491
3	Total Hexa-Furans	33.00	1.789e5	1.520e5	9.041e3	7.392e3	1.22	NO	1.643e4	3.1780	3.1780	0.0491
4	1,2,3,4,7,8-HxCDF	33.46	1.334e5	1.044e5	6.546e3	5.395e3	1.21	NO	1.194e4	2.2728	2.2728	0.0450
5	1,2,3,6,7,8-HxCDF	33.60	3.551e4	2.786e4	1.892e3	1.703e3	1.11	NO	3.594e3	0.64951	0.64951	0.0438
6	2,3,4,6,7,8-HxCDF	34.28	1.737e4	1.623e4	1.131e3	1.021e3	1.11	NO	2.151e3	0.41715	0.41715	0.0494
7	1,2,3,7,8,9-HxCDF	35.31	1.629e4	1.751e4	9.498e2	7.974e2	1.19	NO	1.747e3	0.37722	0.37722	0.0609
8	Total Hexa-Furans	35.32	1.586e4	1.180e4	4.502e2	3.420e2	1.32	NO	7.922e2	0.15321	0.15321	0.0491

**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	36.87	1.081e5	1.147e5	7.789e3	7.552e3	1.03	NO	1.534e4	3.8904	3.8904	0.0859
2	Total Hepta-Furans	37.56	2.292e5	2.235e5	1.410e4	1.440e4	0.98	NO	2.850e4	7.8992	7.8992	0.0858
3	1,2,3,4,7,8,9-HpCDF	38.84	1.946e4	2.073e4	1.122e3	1.076e3	1.04	NO	2.199e3	0.59842	0.59842	0.0763

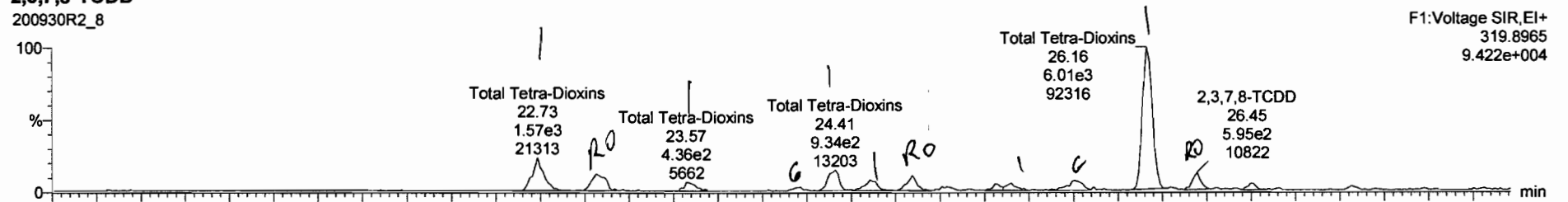
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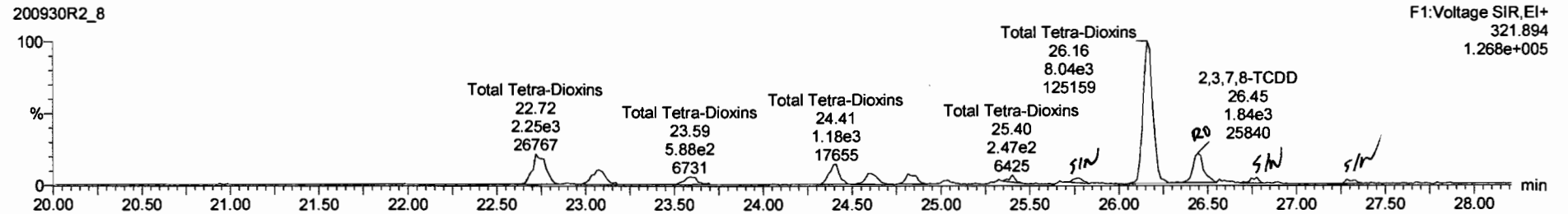
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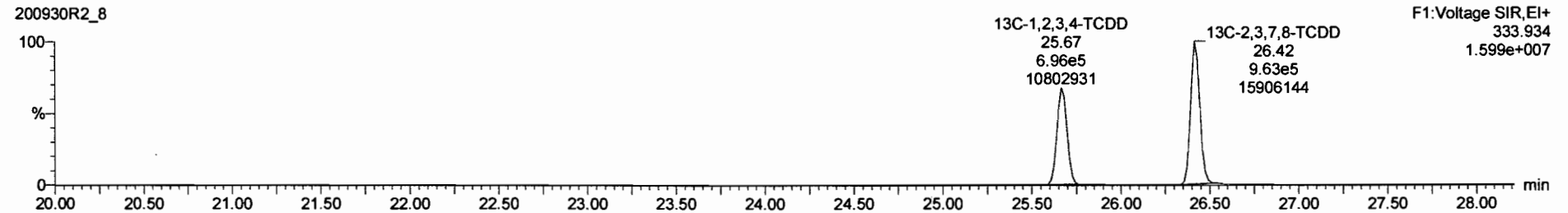


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200930R2\_8



200930R2\_8

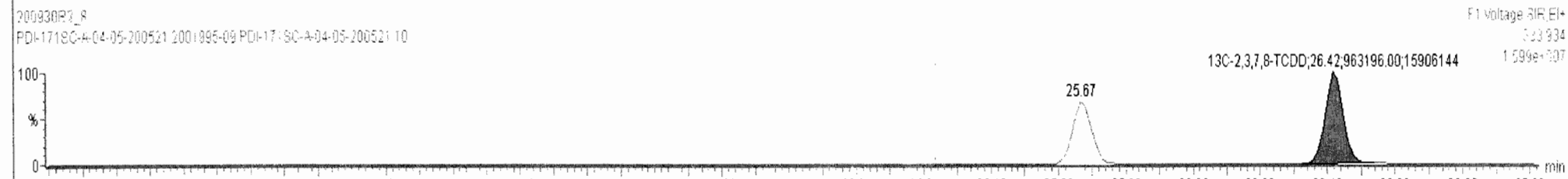
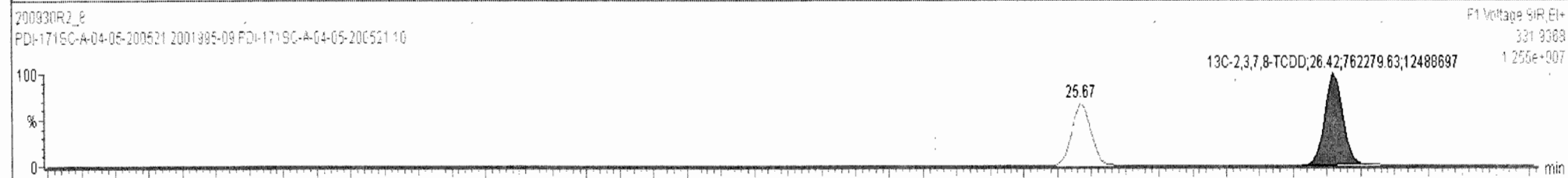
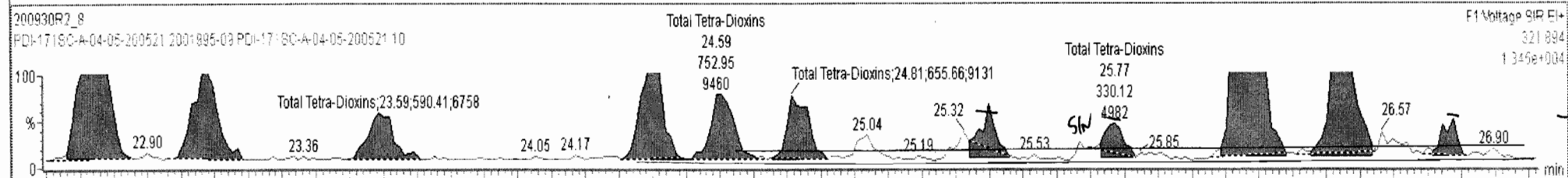
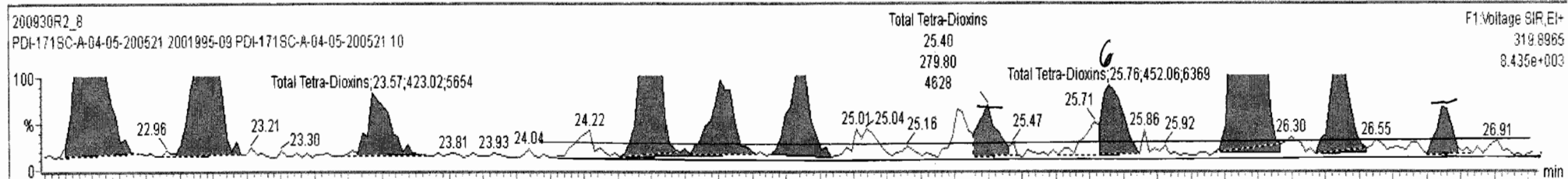




200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.015			2.68		0.0303	3.27
40 Total Penta-Dioxins				0.9561	10.015			1.23		0.0486	1.96
41 Total Hexa-Dioxins				0.8879	10.015			9.03		0.0648	9.40

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.73	1.548e3	2.218e3	0.70	NO	0.42899	0.42899
2 Total Tetra-Dioxins	23.06	9.916e2	1.101e3	0.90	YES	0.22204	0.00000
3 Total Tetra-Dioxins	23.57	4.230e2	5.904e2	0.72	NO	0.11544	0.11544
4 Total Tetra-Dioxins	24.41	9.829e2	1.207e3	0.81	NO	0.24947	0.24947



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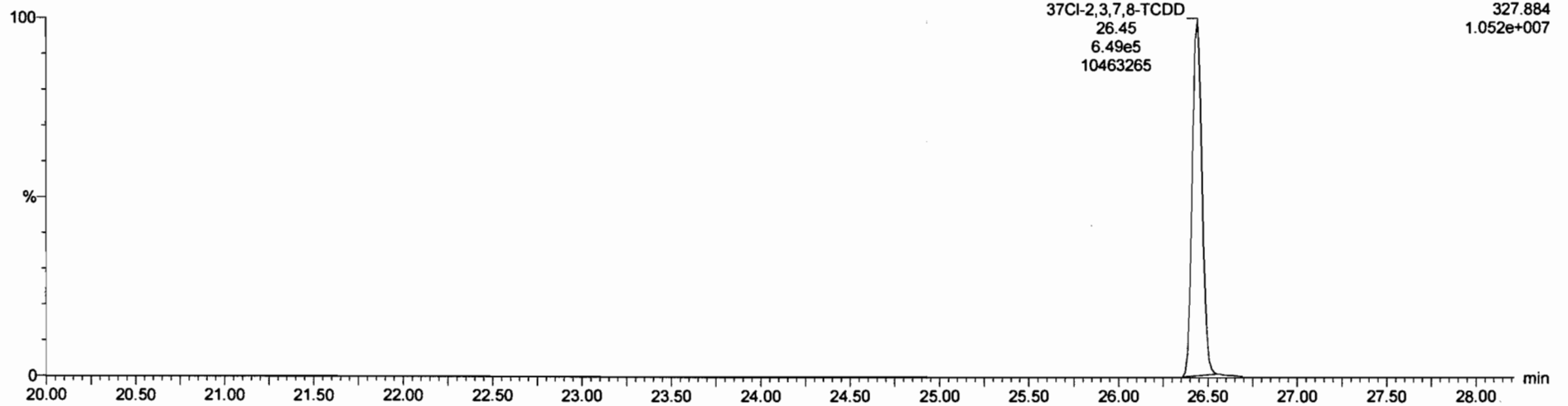
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Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

Name: 200930R2\_8, Date: 01-Oct-2020, Time: 03:04:51, ID: 2001995-09 PDI-171SC-A-04-05-200521 10, Description: PDI-171SC-A-04-05-200521

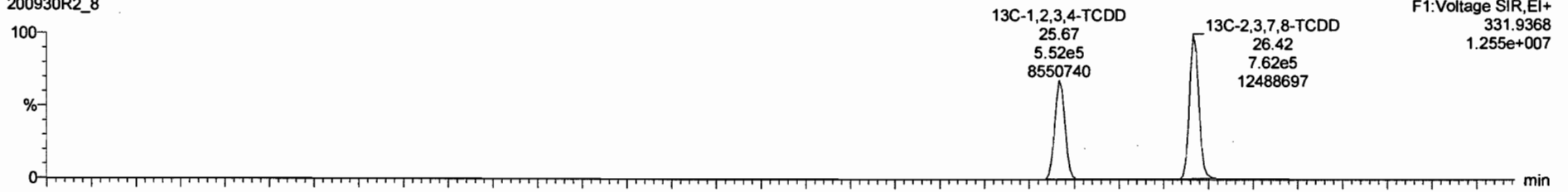
**37Cl-2,3,7,8-TCDD**

200930R2\_8

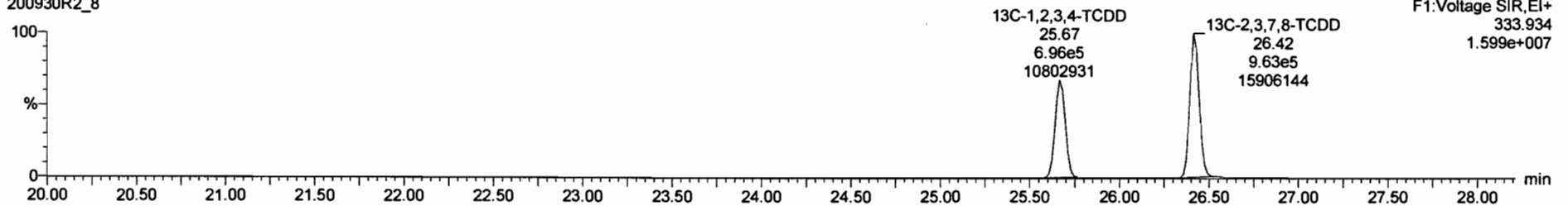


**13C-1,2,3,4-TCDD**

200930R2\_8



200930R2\_8



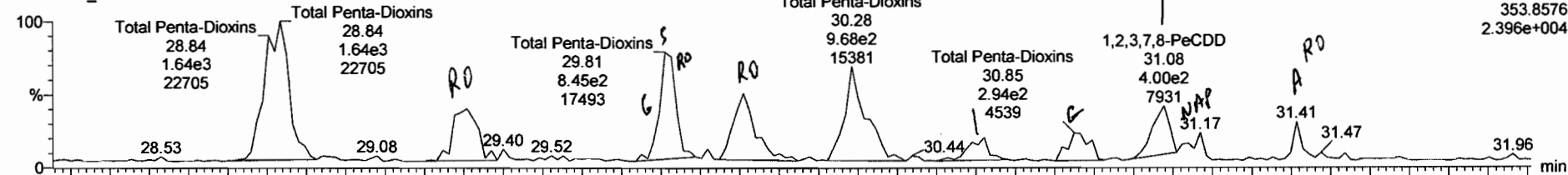
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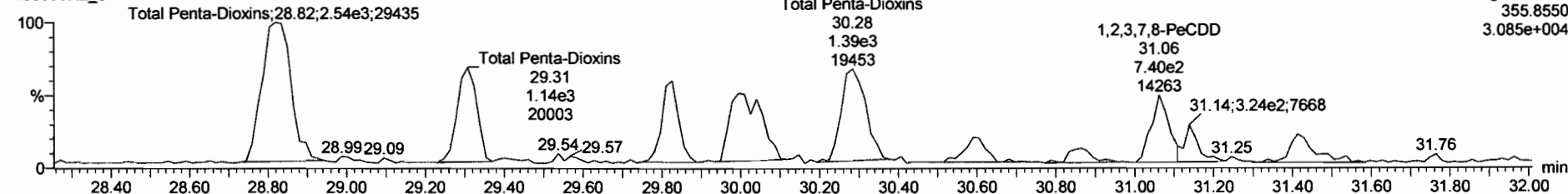
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1,2,3,7,8-PeCDD

200930R2\_8



200930R2\_8

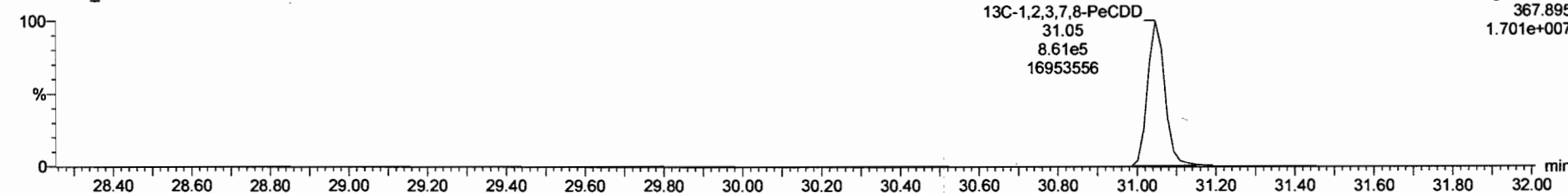


13C-1,2,3,7,8-PeCDD

200930R2\_8



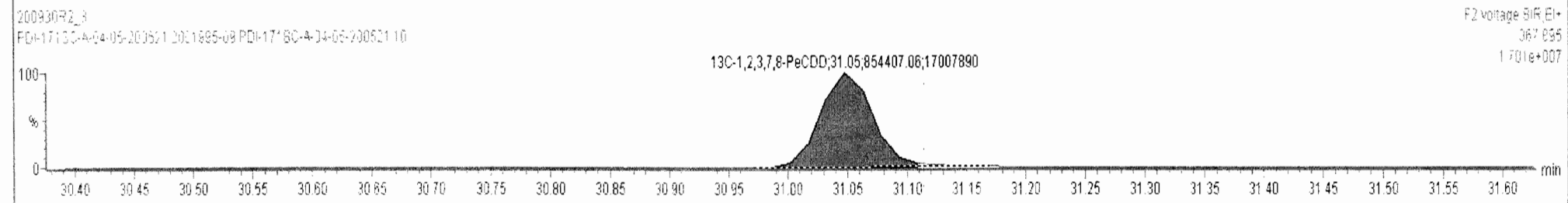
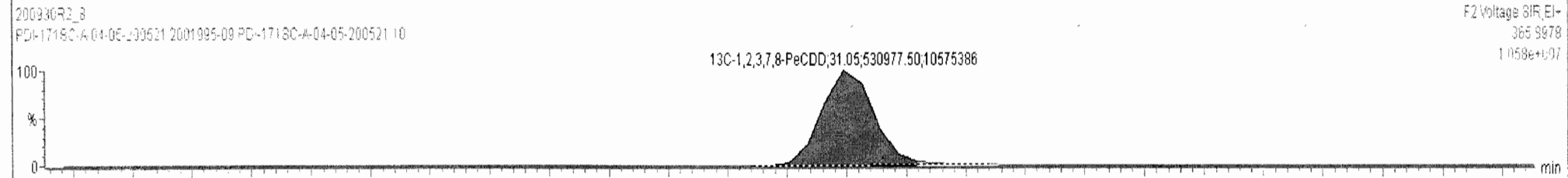
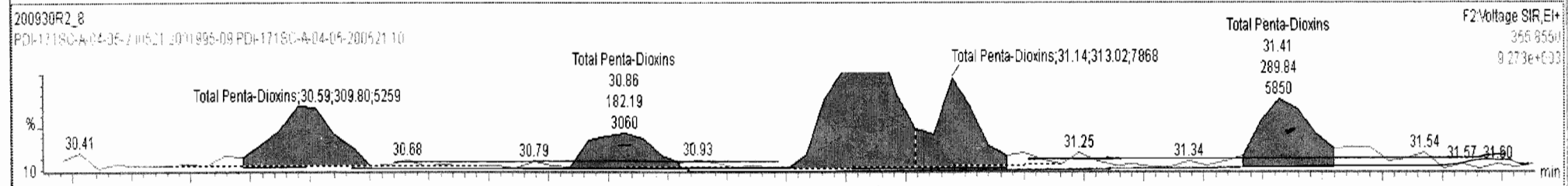
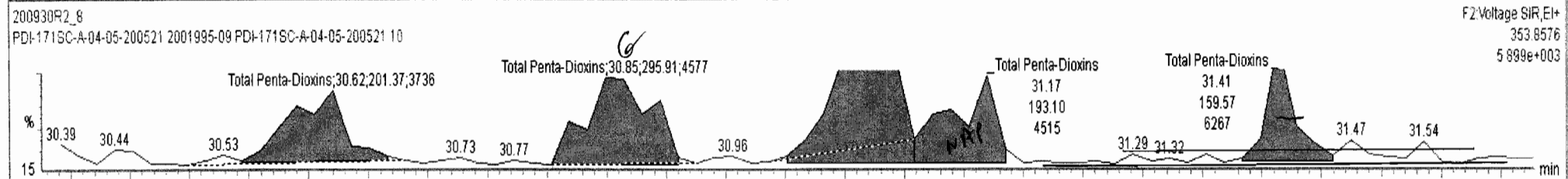
200930R2\_8



200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9581	10.015			1.32		0.0484	2.11
41 Total Hexa-Dioxins				0.8879	10.015			9.03		0.0848	9.40
42 Total Hepta-Dioxins				0.8316	10.015			52.81		0.2321	52.81

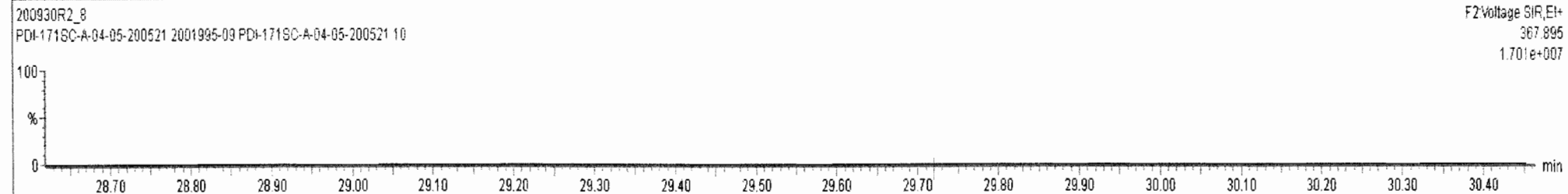
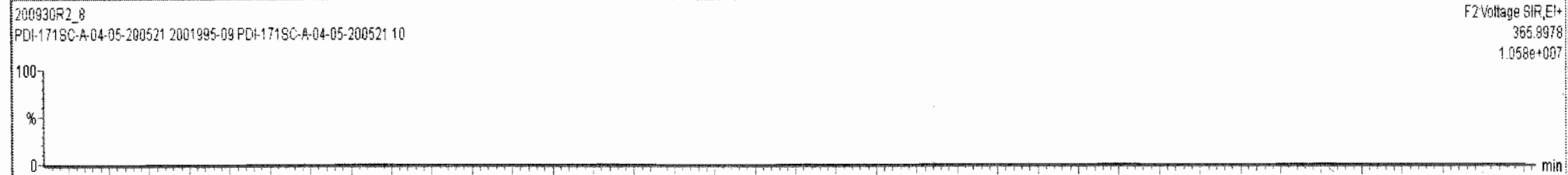
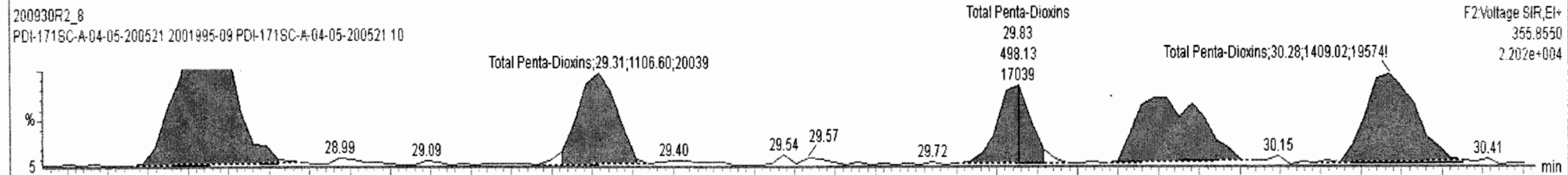
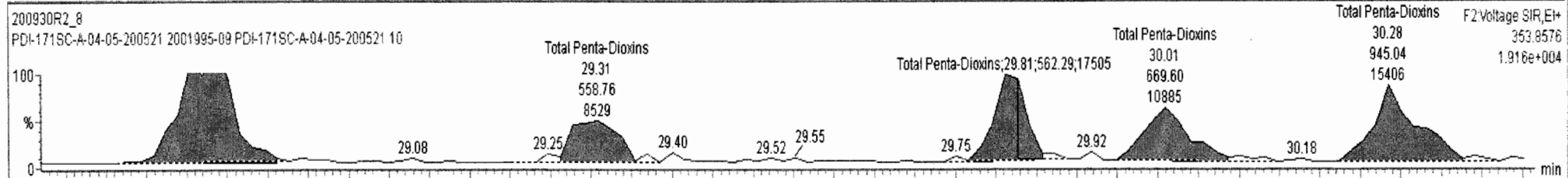
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.84	1.646e3	2.541e3	0.65	NO	0.63116	0.63116
2 Total Penta-Dioxins	29.31	5.588e2	1.107e3	0.50	YES	0.21794	0.00000
3 Total Penta-Dioxins	29.81	5.623e2	4.981e2	1.13	YES	0.12240	0.00000
4 Total Penta-Dioxins	30.82	2.400e2	2.055e2	0.84	YES	0.072620	0.00000



200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9561	10.015			1.23		0.0484	1.94
41 Total Hexa-Dioxins				0.8879	10.015			9.03		0.0848	9.40
42 Total Hepta-Dioxins				0.8318	10.015			52.8		0.232	52.8

Name	RT/	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.84	1.646e3	2.541e3	0.65	NO	0.62466	0.62466
2 Total Penta-Dioxins	29.31	5.588e2	1.107e3	0.50	YES	0.21570	0.00000
3 Total Penta-Dioxins	29.81	5.623e2	4.981e2	1.13	YES	0.12114	0.00000
4 Total Penta-Dioxins	30.28	2.400e3	2.055e3	0.84	YES	0.074984	0.00000



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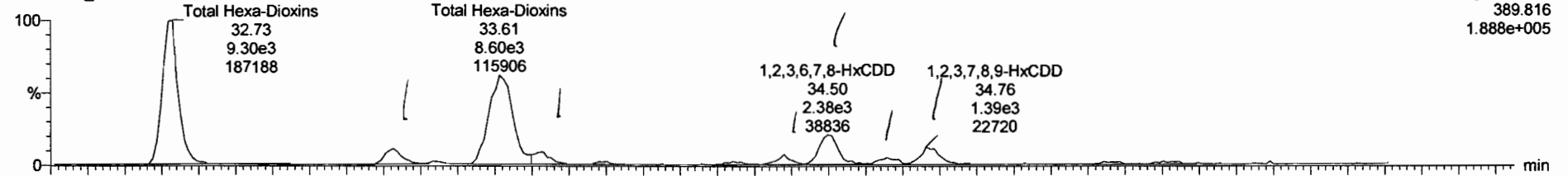
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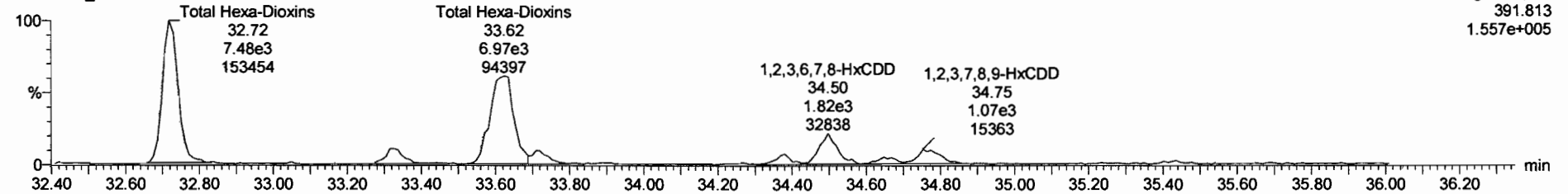
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1,2,3,4,7,8-HxCDD

200930R2\_8

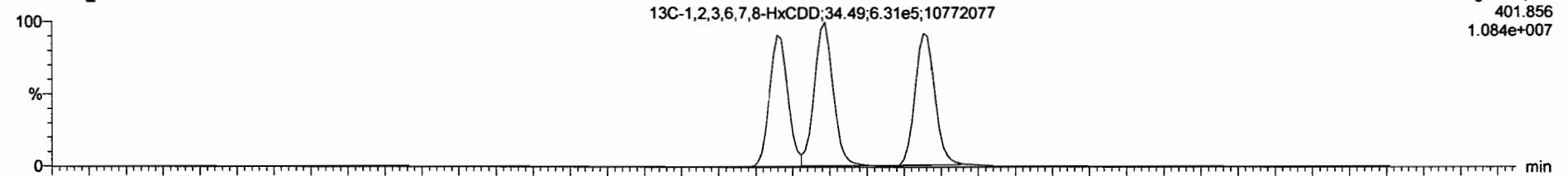


200930R2\_8

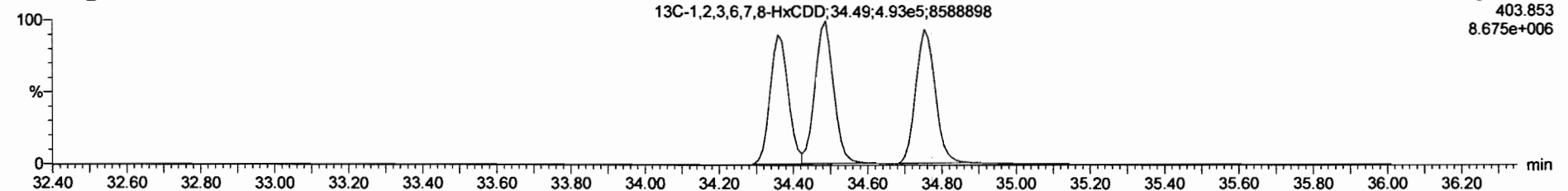


13C-1,2,3,4,7,8-HxCDD

200930R2\_8

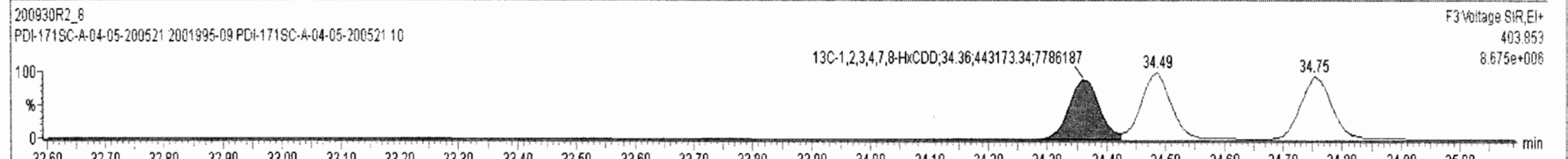
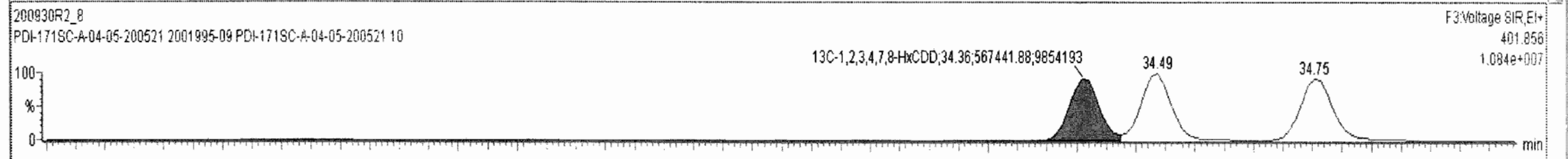
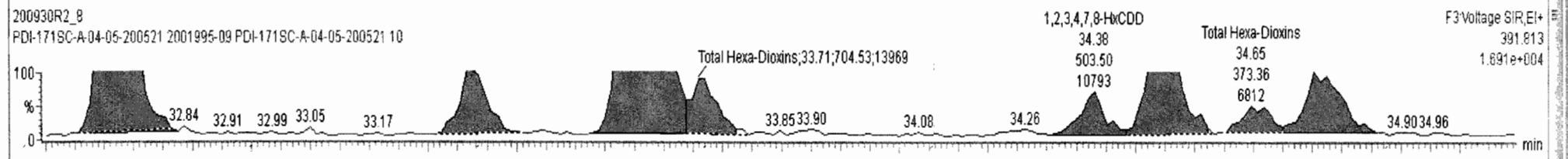
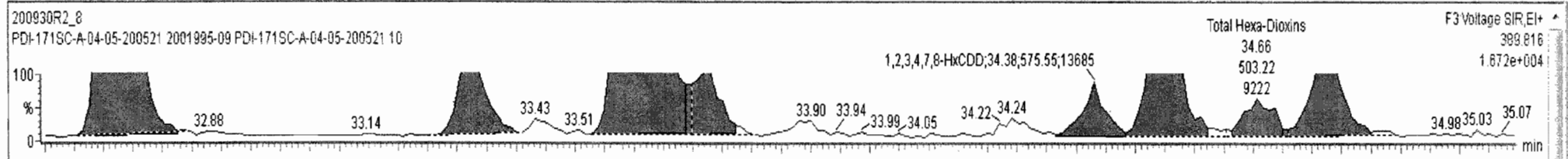


200930R2\_8



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9561	10.015			1.25		0.0484	1.87
41 Total Hexa-Dioxins				0.8879	10.015			9.20		0.0848	9.20
42 Total Hepta-Dioxins				0.8316	10.015			52.81		0.2321	52.81

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.73	9.342e3	7.541e3	1.24	NO	3.5253	3.5253
2 Total Hexa-Dioxins	33.33	1.099e3	8.778e2	1.25	NO	0.41278	0.41278
3 Total Hexa-Dioxins	33.61	8.450e3	6.969e3	1.21	NO	3.2195	3.2195
4 Total Hexa-Dioxins	33.73	8.984e2	7.045e2	1.28	NO	0.33470	0.33470
5 1,2,3,4,7,8-HxCDD	34.38	5.755e2	5.035e2	1.14	NO	0.21284	0.21284
6 1,2,3,6,7,8-HxCDD	34.50	2.326e3	1.799e3	1.29	NO	0.82541	0.82541
7 Total Hexa-Dioxins	34.66	5.032e2	3.734e2	1.35	NO	0.18303	0.18303
8 1,2,3,7,8,9-HxCDD	34.76	1.359e3	1.066e3	1.27	NO	0.48564	0.48564



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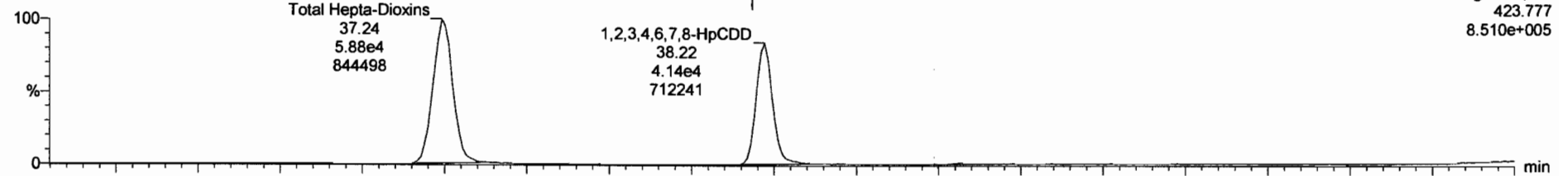
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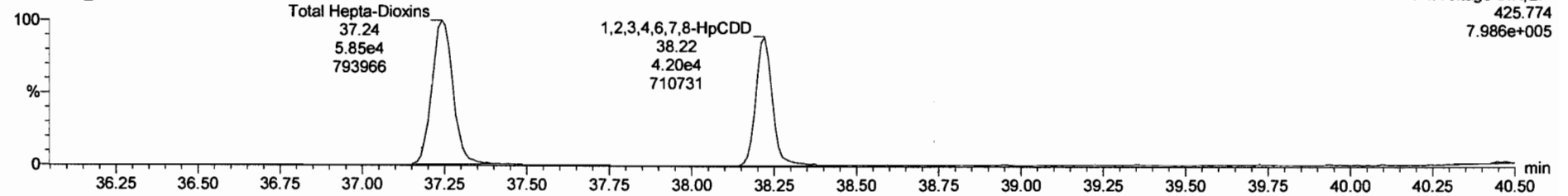
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1,2,3,4,6,7,8-HpCDD

200930R2\_8

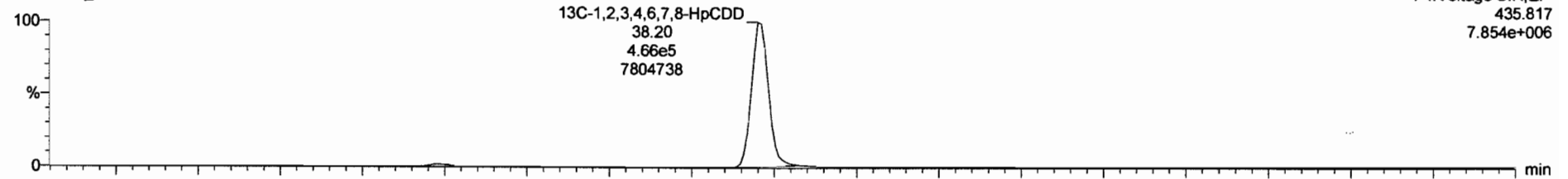


200930R2\_8

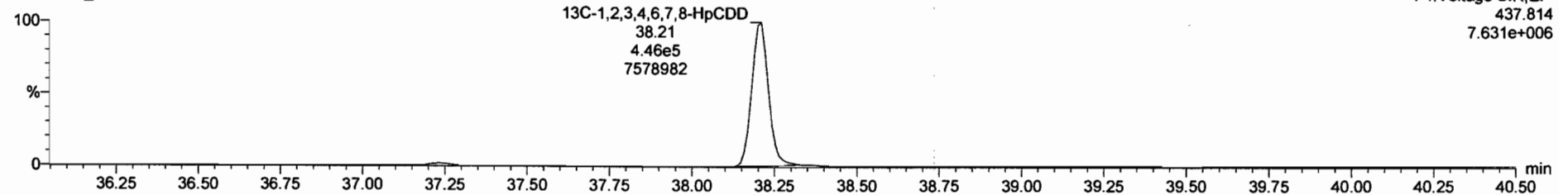


13C-1,2,3,4,6,7,8-HpCDD

200930R2\_8



200930R2\_8





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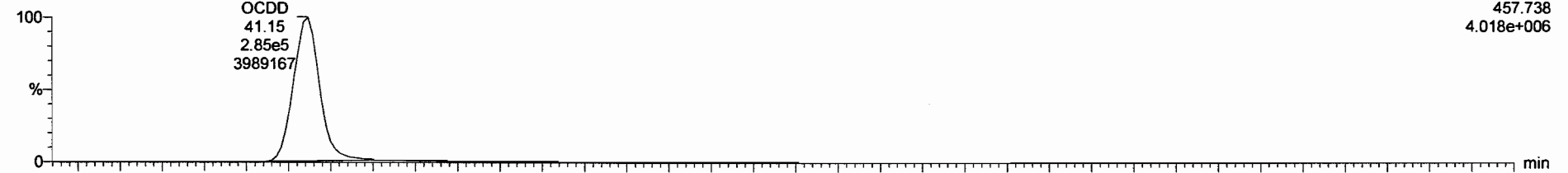
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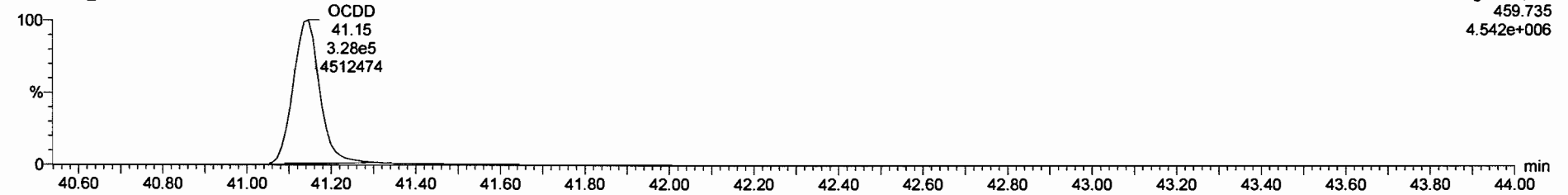
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OCDD

200930R2\_8

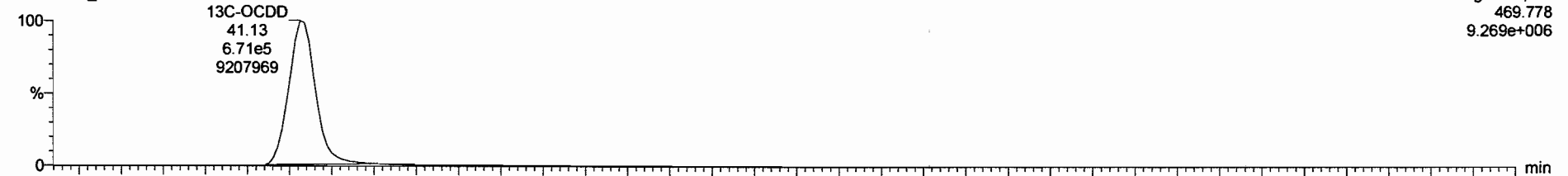


200930R2\_8

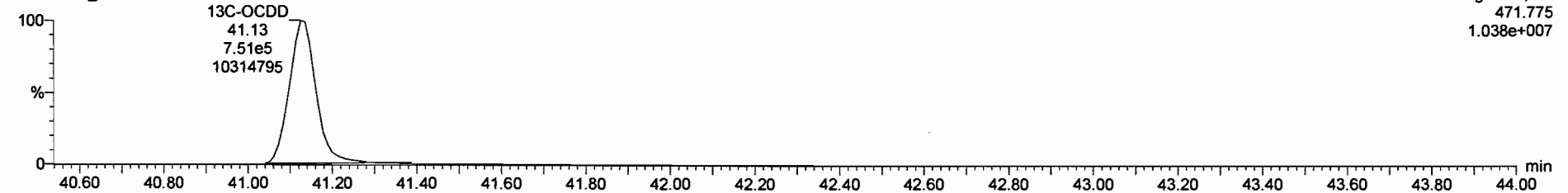


13C-OCDD

200930R2\_8



200930R2\_8



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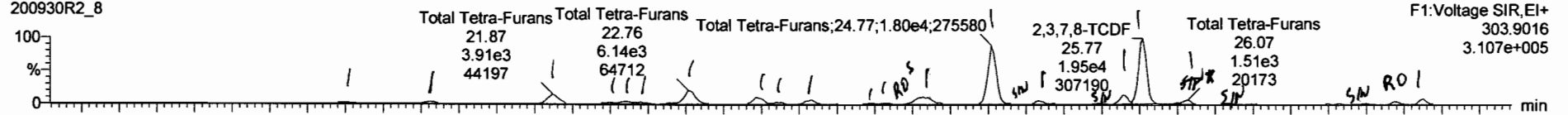
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\* 10-01-2020

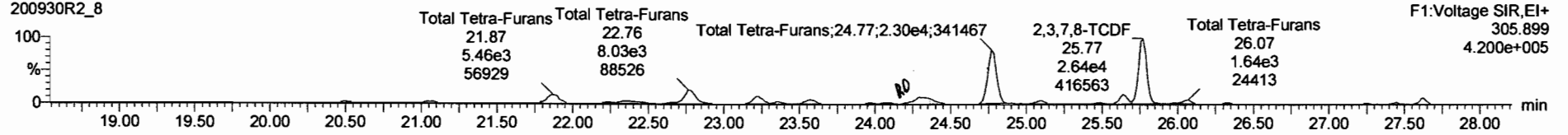
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2,3,7,8-TCDF

200930R2\_8

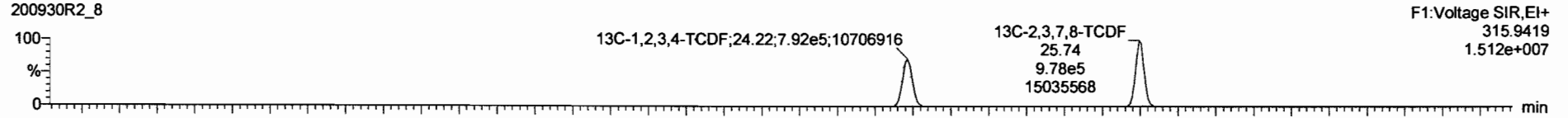


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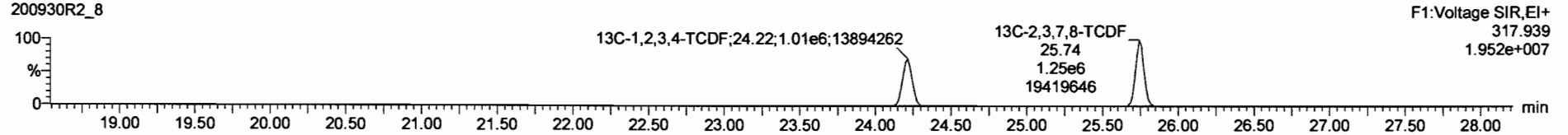


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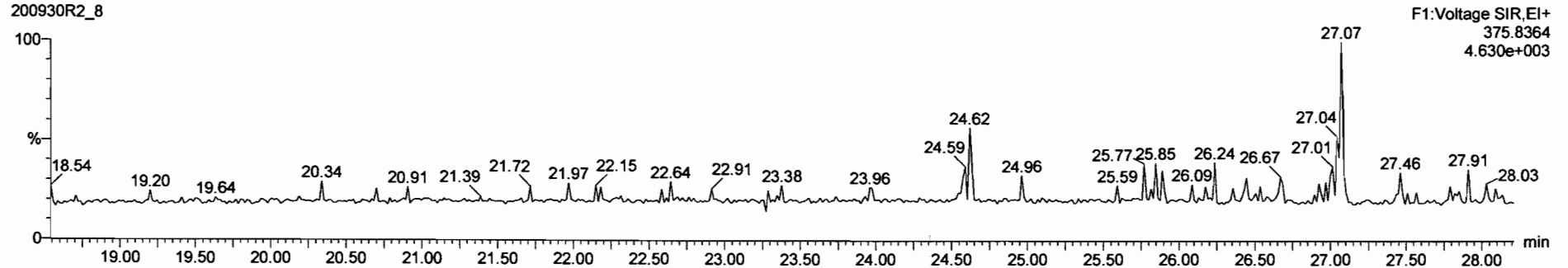


200930R2\_8



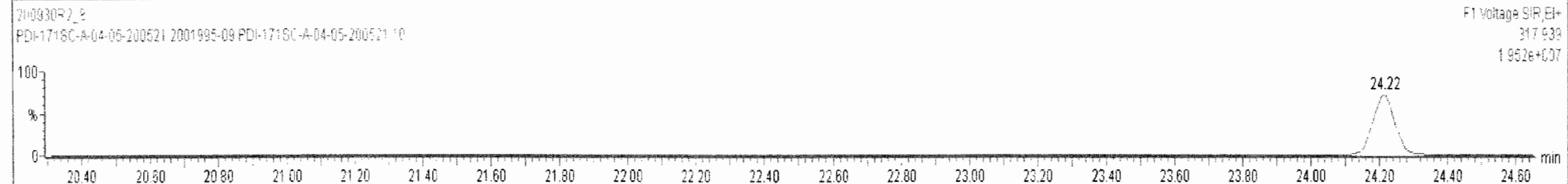
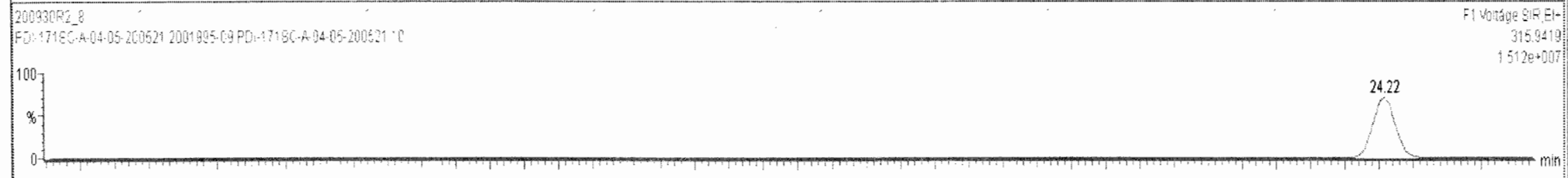
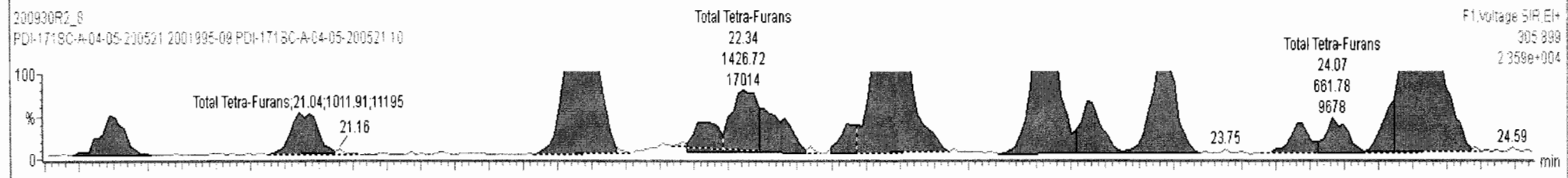
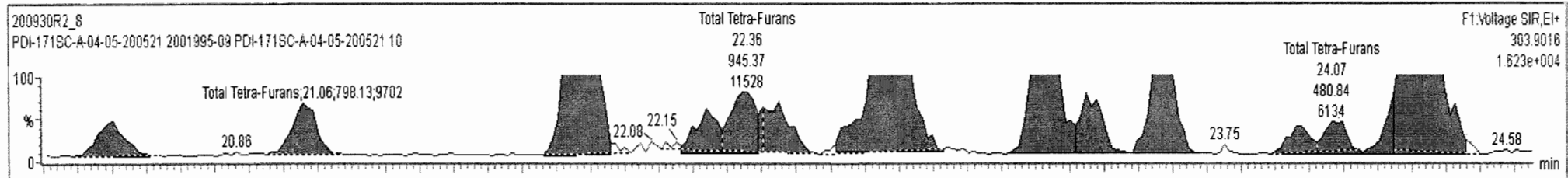
DPE1

200930R2\_8



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.015			19.3		0.0359	20.0
44 1st Func. Penta-Furans				0.9386	10.015			1.95		0.0113	1.95
45 Total Penta-Furans				0.9386	10.015			8.16		0.0442	8.21

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.50	5.932e2	8.648e2	0.69	NO	0.17751	0.17751
2 Total Tetra-Furans	21.06	7.981e2	1.012e3	0.79	NO	0.22038	0.22038
3 Total Tetra-Furans	21.87	3.867e3	5.383e3	0.72	NO	1.1262	1.1262
4 Total Tetra-Furans	22.24	6.095e2	7.209e2	0.85	NO	0.16198	0.16198
5 Total Tetra-Furans	22.36	9.454e2	1.427e3	0.66	NO	0.28861	0.00000

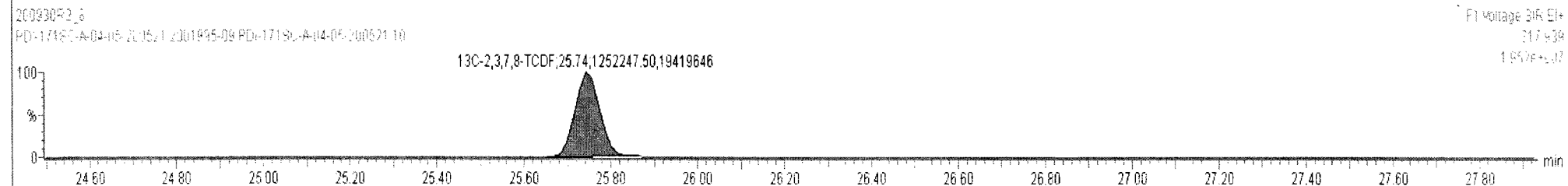
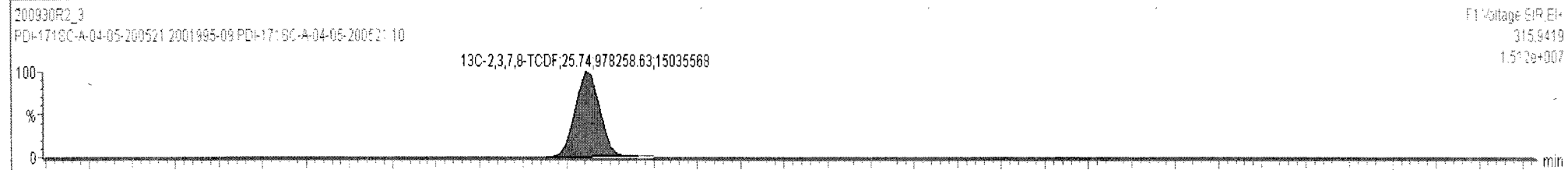
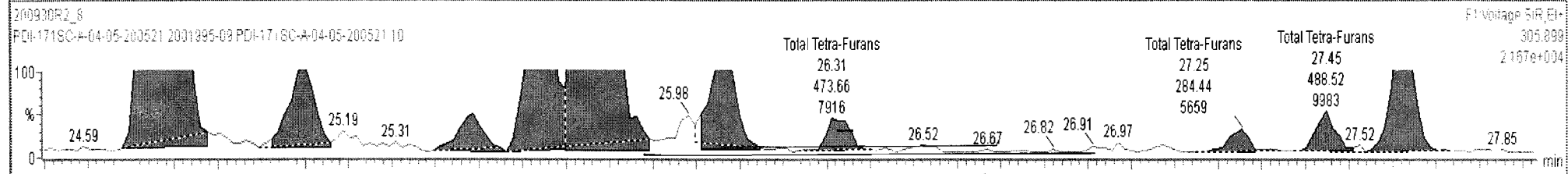
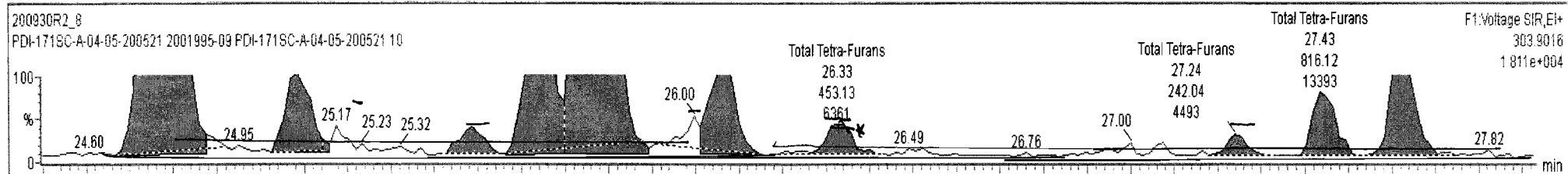


200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.015			18.4		0.0359	20.1
44 1st Func. Penta-Furans				0.9386	10.015			1.95		0.0113	1.95
45 Total Penta-Furans				0.9386	10.015			8.16		0.0442	8.21

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.50	5.932e2	8.648e2	0.69	NO	0.17751	0.17751
2 Total Tetra-Furans	21.06	7.981e2	1.012e3	0.79	NO	0.22038	0.22038
3 Total Tetra-Furans	21.87	3.867e3	5.383e3	0.72	NO	1.1262	1.1262
4 Total Tetra-Furans	22.24	6.095e2	7.209e2	0.85	NO	0.16198	0.16198
5 Total Tetra-Furans	22.36	9.454e2	1.427e3	0.66	NO	0.28881	0.00000

\*dm 10-26-2020



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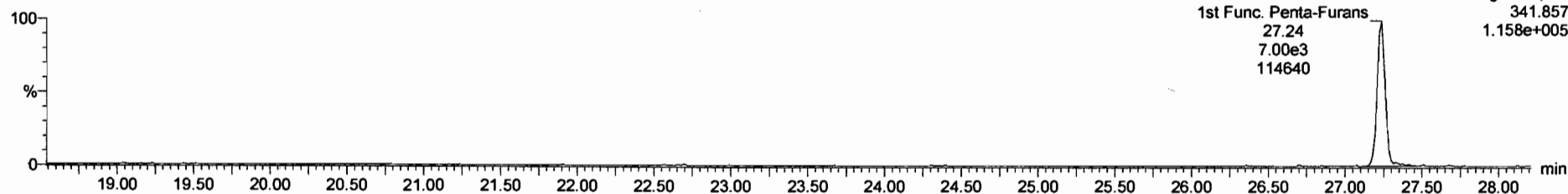
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1st Func. Penta-Furans

200930R2\_8

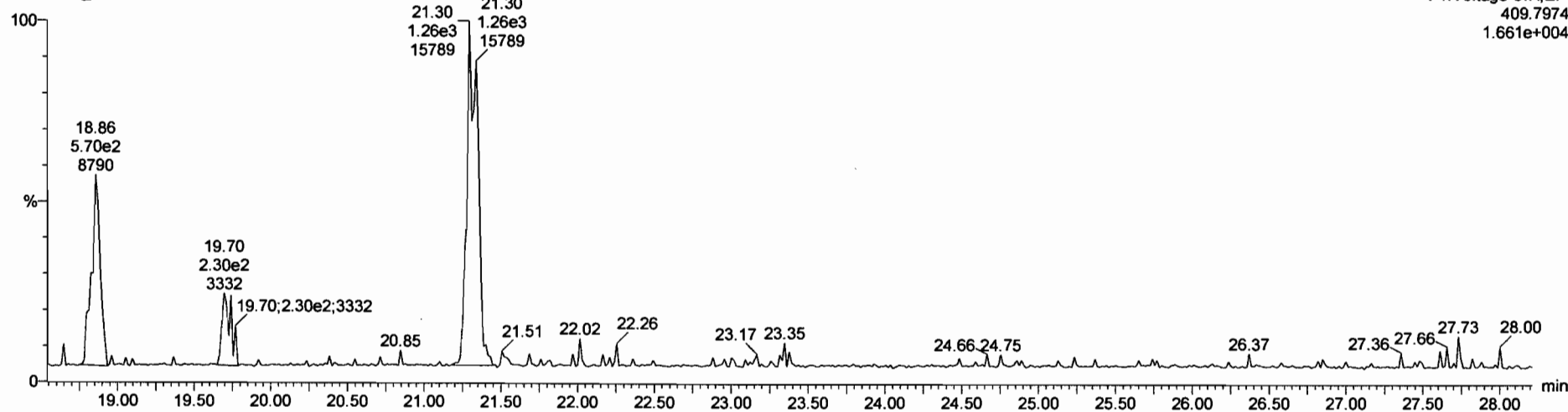


200930R2\_8



DPE6

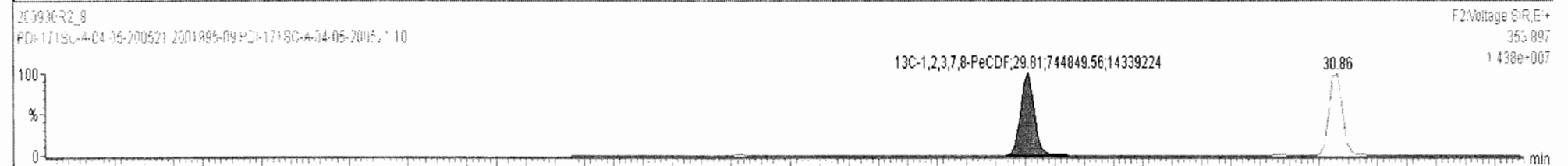
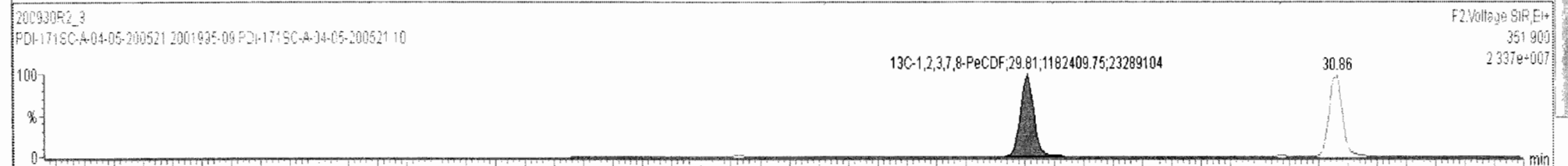
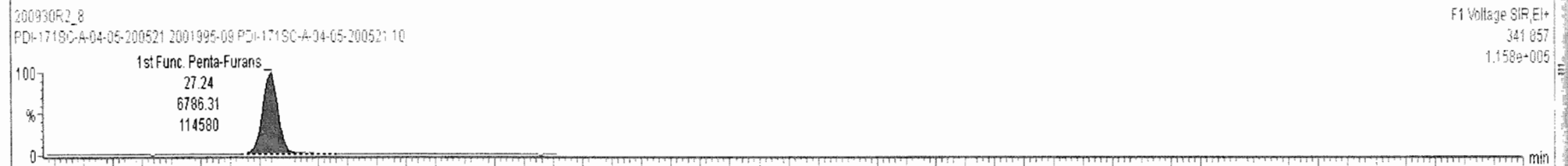
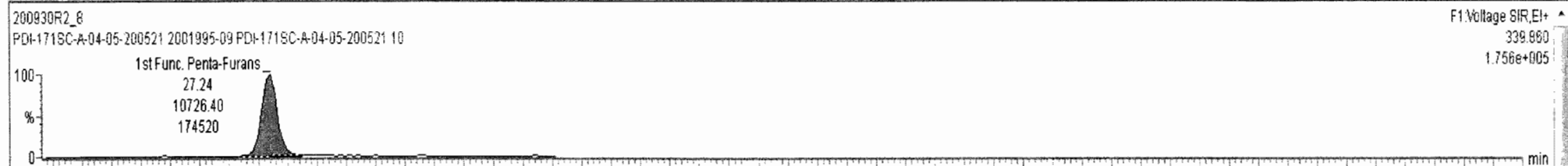
200930R2\_8



200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9386	10.015			1.94		0.0113	1.94
45 Total Penta-Furans				0.9386	10.015			8.16		0.0442	8.21
46 Total Hexa-Furans				0.8599	10.015			9.50		0.0491	9.58

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1st Func. Penta-Furans	27.24	1.073e4	6.786e3	1.58	NO	1.9438	1.9438



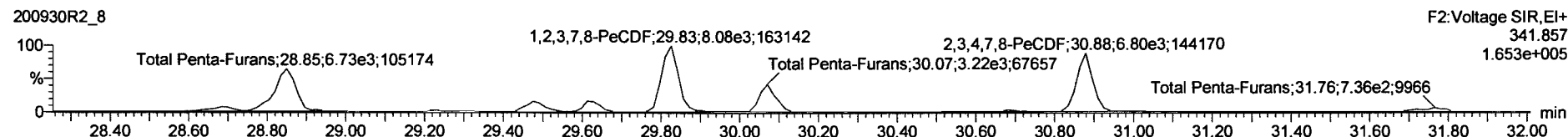
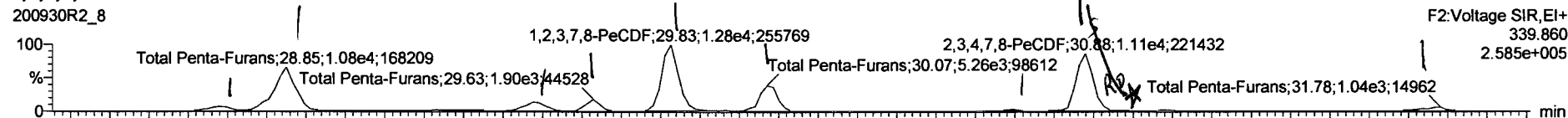
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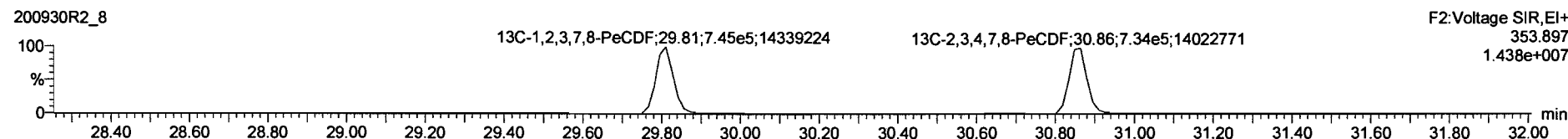
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Name: 200930R2\_8, Date: 01-Oct-2020, Time: 03:04:51, ID: 2001995-09 PDI-171SC-A-04-05-200521 10, Description: PDI-171SC-A-04-05-200521

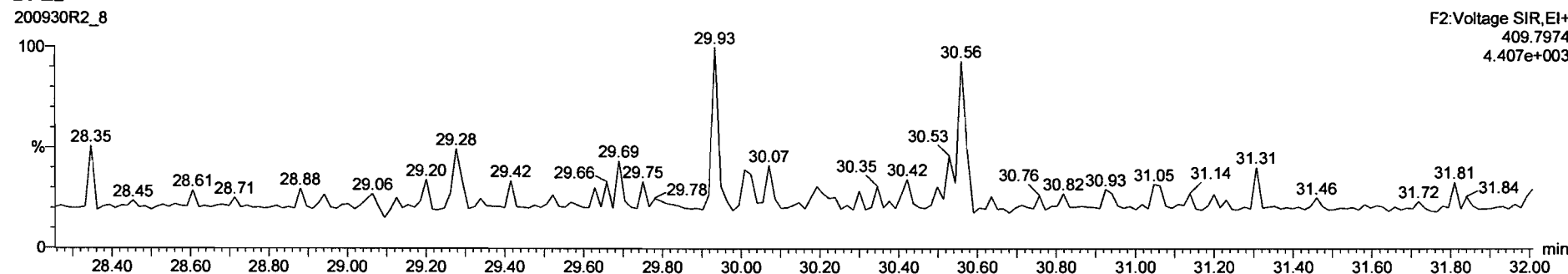
**1,2,3,7,8-PeCDF**



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



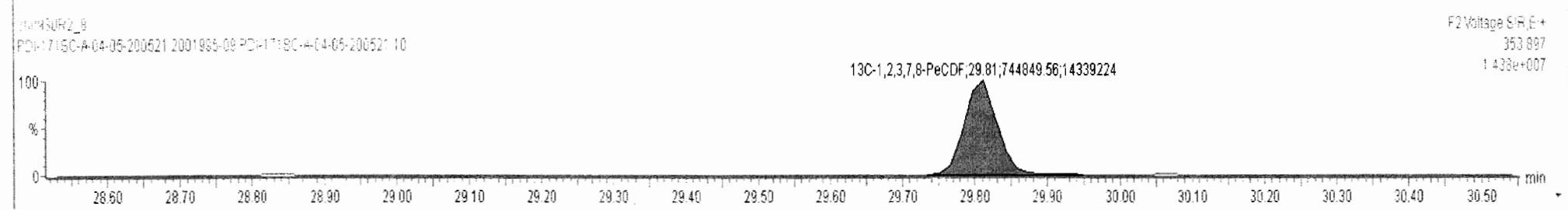
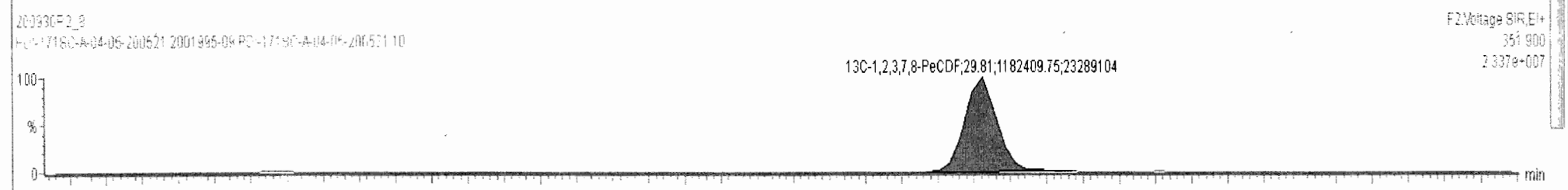
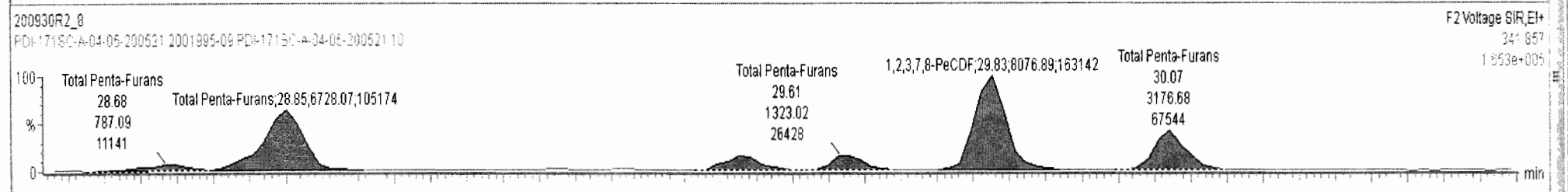
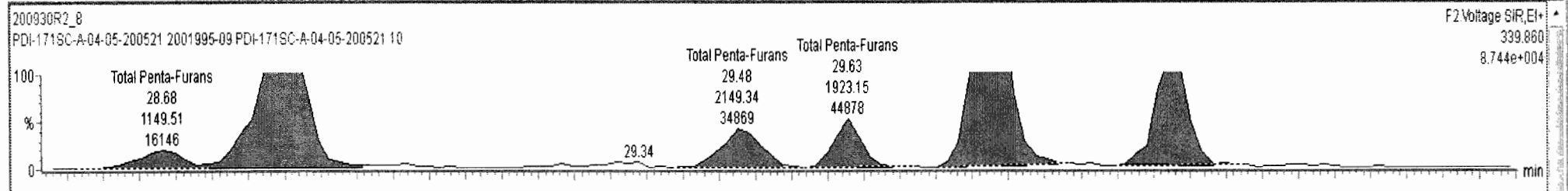
**DPE2**



200930R2\_8 - 2001995-09-PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans			0.9386	10.015			1.94		0.0113	1.94
45	Total Penta-Furans			0.9386	10.015			8.28		0.0442	8.39
46	Total Hexa-Furans			0.8639	10.015			9.50		0.0491	9.58

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
7	Total Penta-Furans	30.70	2.955e2	1.960e2	1.51	NO	0.054551
8	Total Penta-Furans	30.88	1.040e4	6.472e3	1.61	NO	1.8722
9	2,3,4,7,8-PeCDF	30.91	8.212e2	4.505e2	1.82	YES	0.11465
10	Total Penta-Furans	31.78	9.894e2	7.776e2	1.36	NO	0.19057

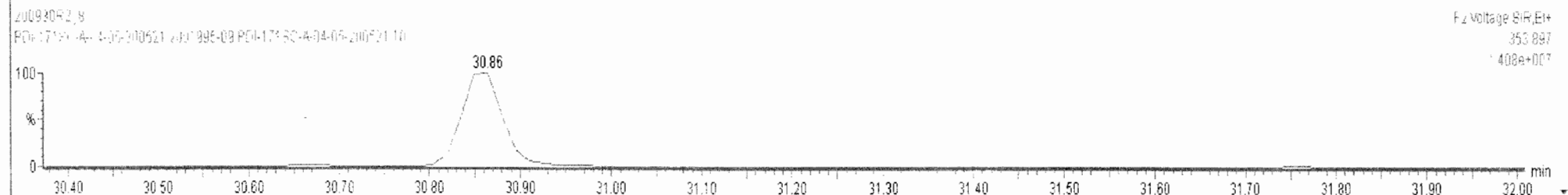
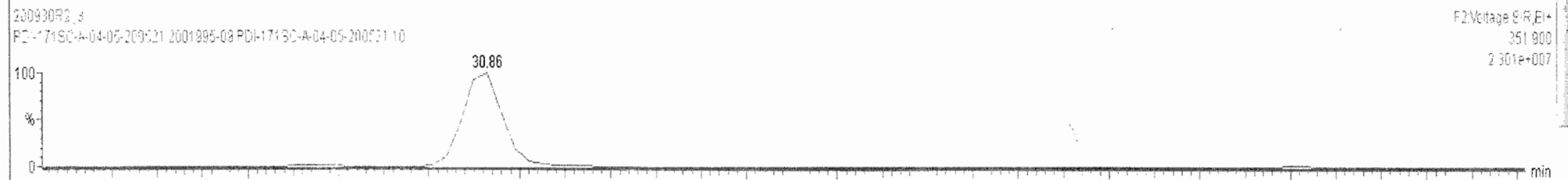
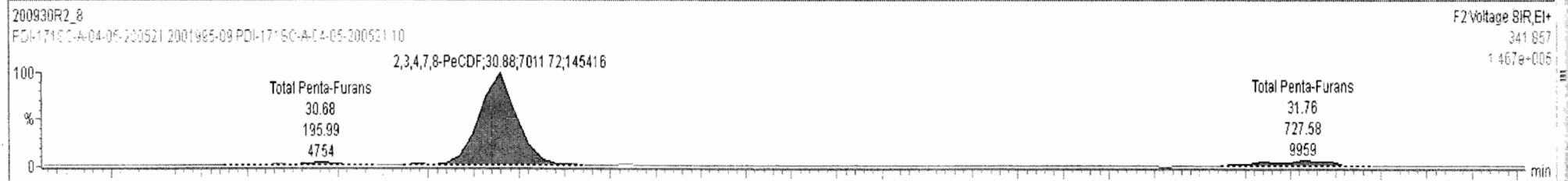
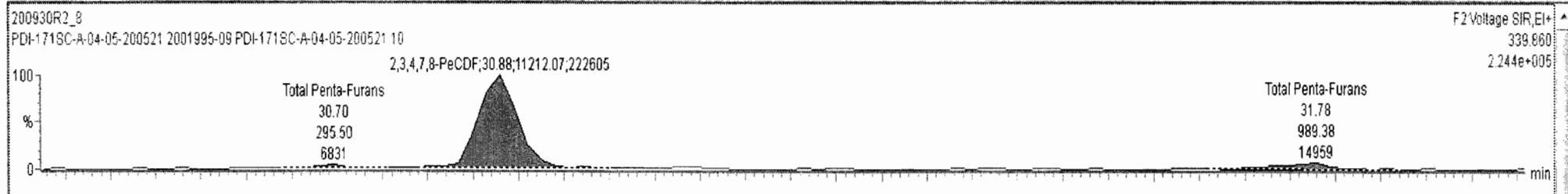




200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RFF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.015			8.23		0.0442	8.23
46 Total Hexa-Furans				0.8689	10.015			9.48		0.0491	9.48
47 Total Hepta-Furans				0.8908	10.015			12.4		0.0658	12.4

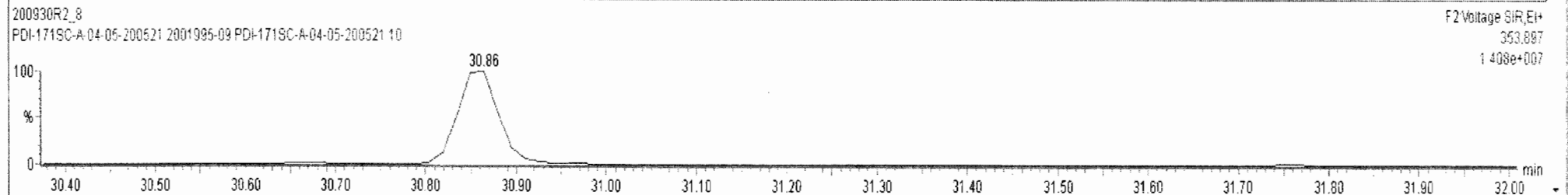
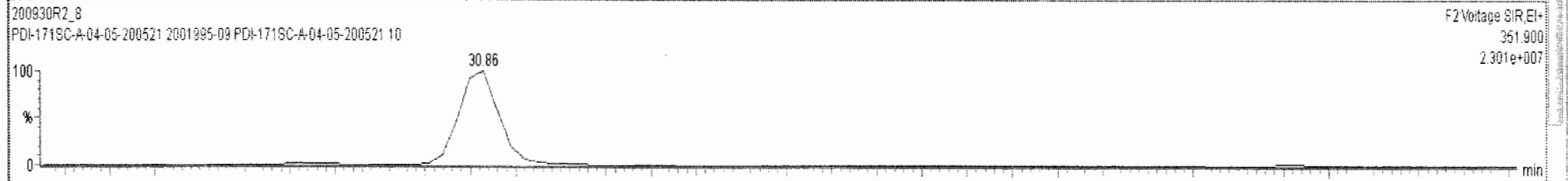
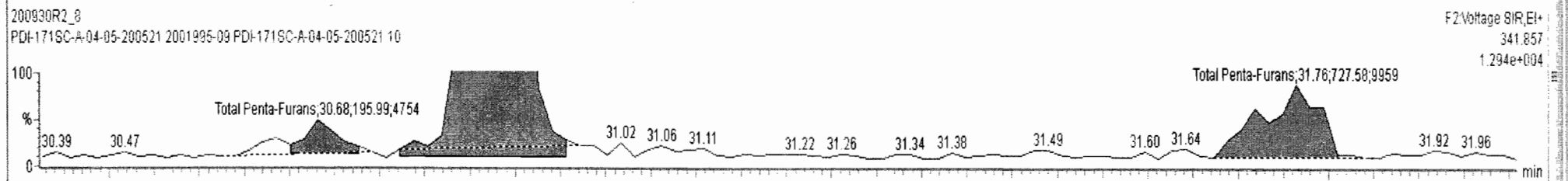
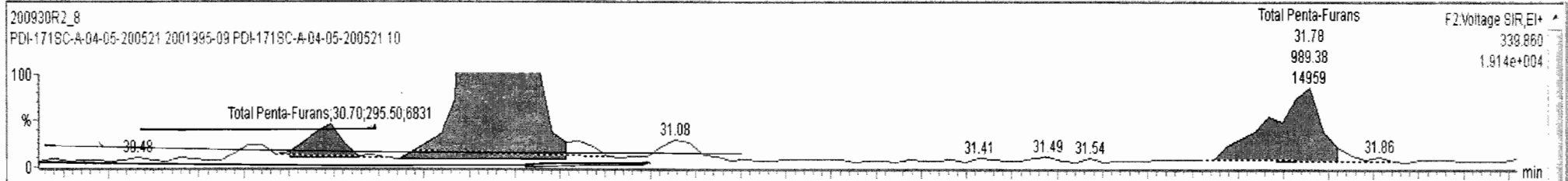
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.68	1.150e3	7.871e2	1.46	NO	0.21495	0.21495
2 Total Penta-Furans	28.85	1.082e4	6.728e3	1.61	NO	1.9476	1.9476
3 Total Penta-Furans	29.48	2.149e3	1.457e3	1.48	NO	0.40022	0.40022



200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	w/Aol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.015			8.23		0.0442	8.23
46 Total Hexa-Furans				0.8699	10.015			9.48		0.0491	9.48
47 Total Hepta-Furans				0.8908	10.015			12.4		0.0658	12.4

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.68	1.150e3	7.871e2	1.46	NO	0.21495	0.21495
2 Total Penta-Furans	28.85	1.082e4	6.726e3	1.61	NO	1.9476	1.9476
3 Total Penta-Furans	29.46	2.149e3	1.457e3	1.48	NO	0.40022	0.40022
4 Total Penta-Furans	30.86	4.032e2	4.232e2	1.45	NO	0.26020	0.26020



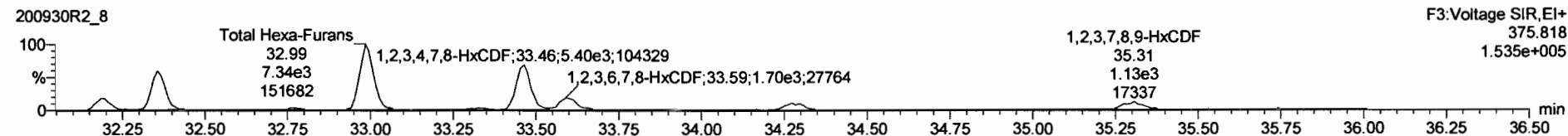
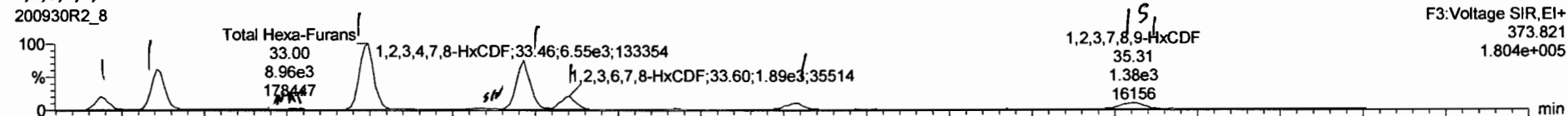
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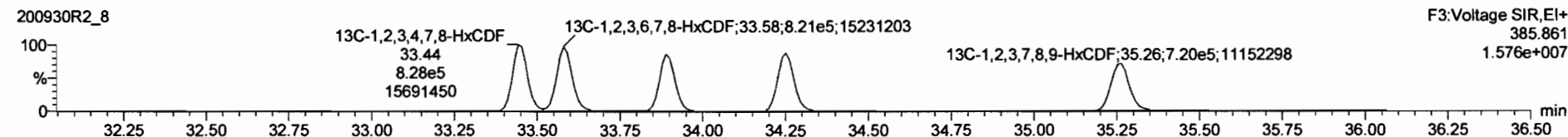
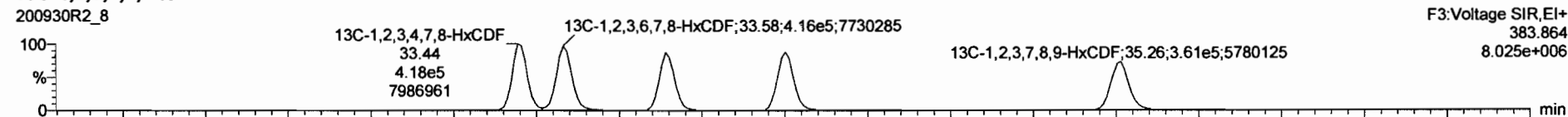
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Name: 200930R2\_8, Date: 01-Oct-2020, Time: 03:04:51, ID: 2001995-09 PDI-171SC-A-04-05-200521 10, Description: PDI-171SC-A-04-05-200521

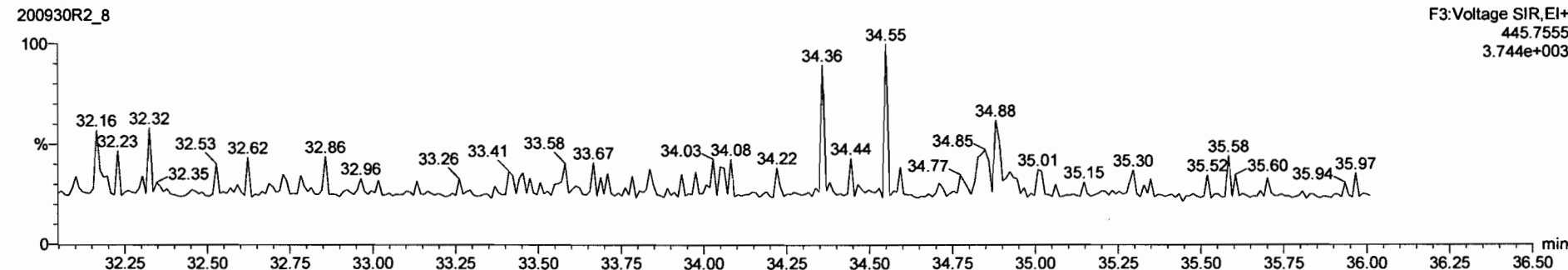
1,2,3,4,7,8-HxCDF

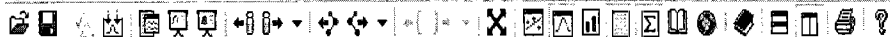


13C-1,2,3,4,7,8-HxCDF



DPE3

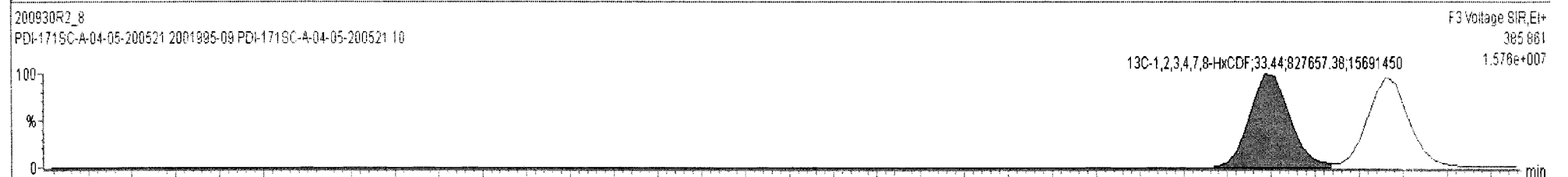
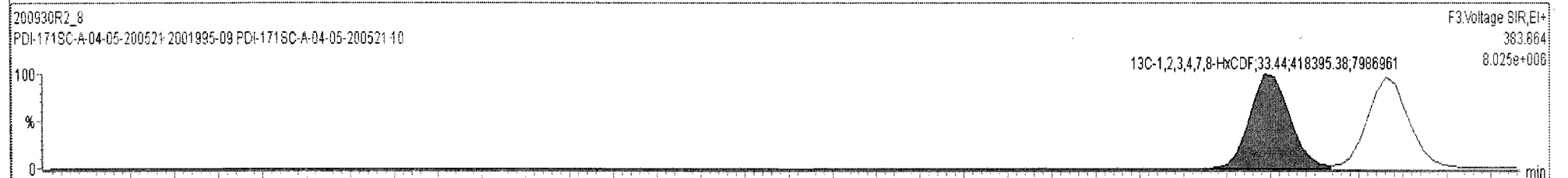
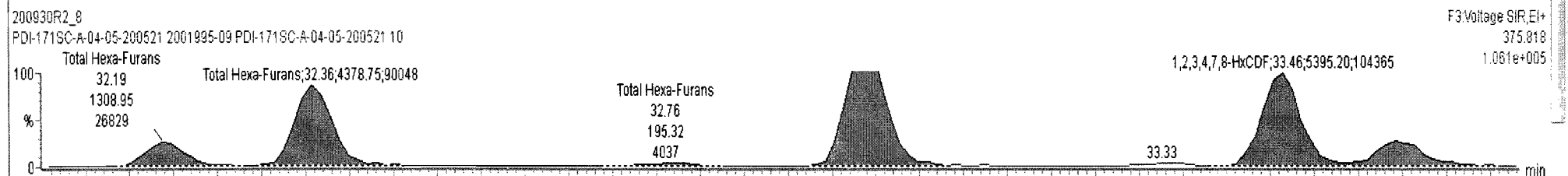
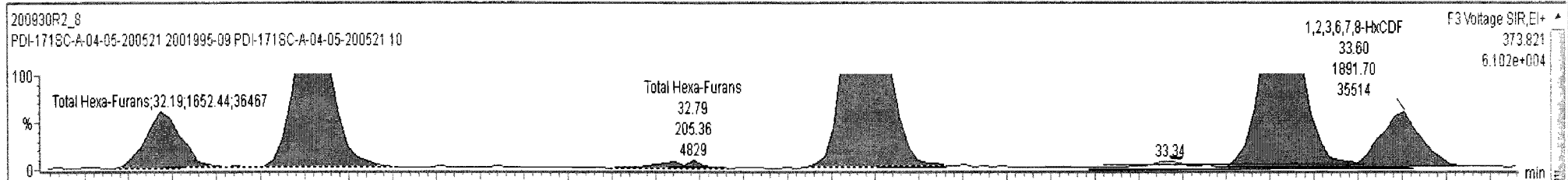




200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9386	10.015			1.94		0.0113	1.94
45 Total Penta-Furans				0.9386	10.015			8.28		0.0442	8.39
46 Total Hexa-Furans				0.8699	10.015			9.48		0.0481	8.55

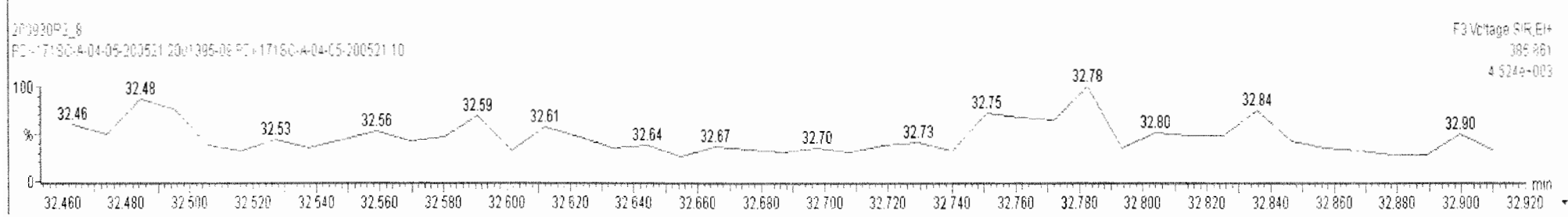
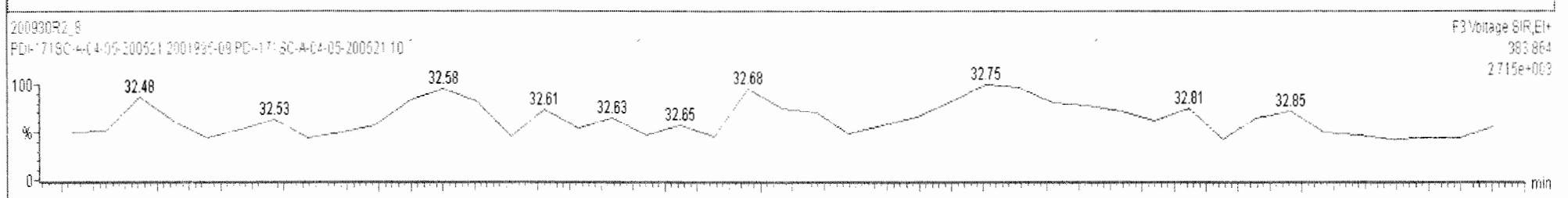
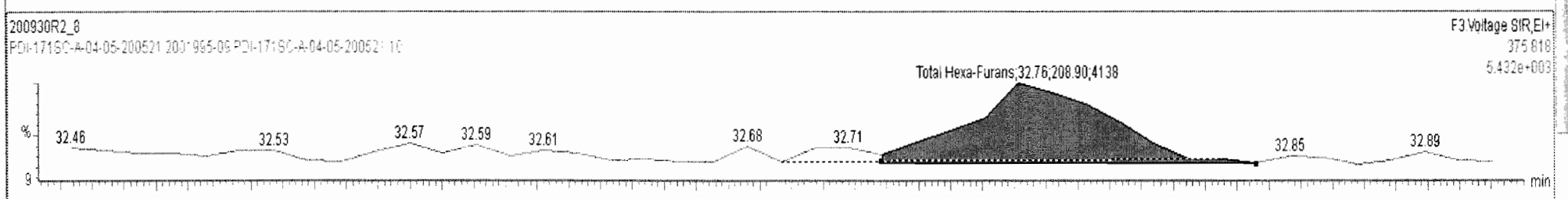
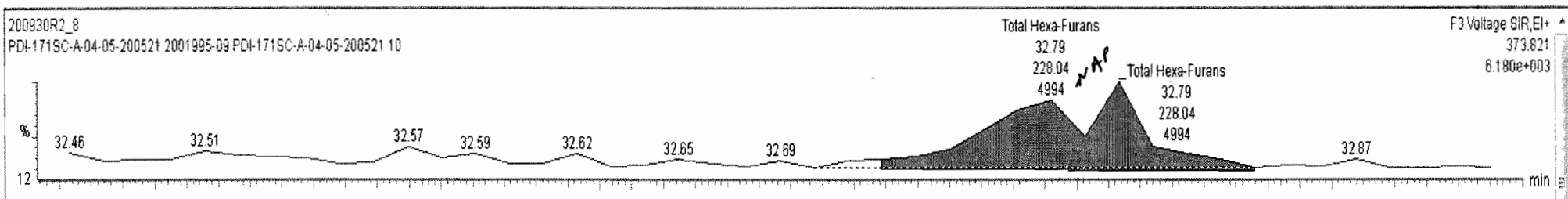
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	1.652e3	1.309e3	1.26	NO	0.57271	0.57271
2 Total Hexa-Furans	32.36	5.245e3	4.379e3	1.20	NO	1.8612	1.8612
3 Total Hexa-Furans	32.79	2.054e2	1.953e2	1.05	YES	0.071744	0.00000
4 Total Hexa-Furans	33.00	9.041e3	7.392e3	1.22	NO	3.1780	3.1780



200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans			0.9386	10.015			1.94		0.0113	1.94
45	Total Penta-Furans			0.9386	10.015			8.28		0.0442	8.39
46	Total Hexa-Furans			0.8699	10.015			9.57		0.0491	9.57

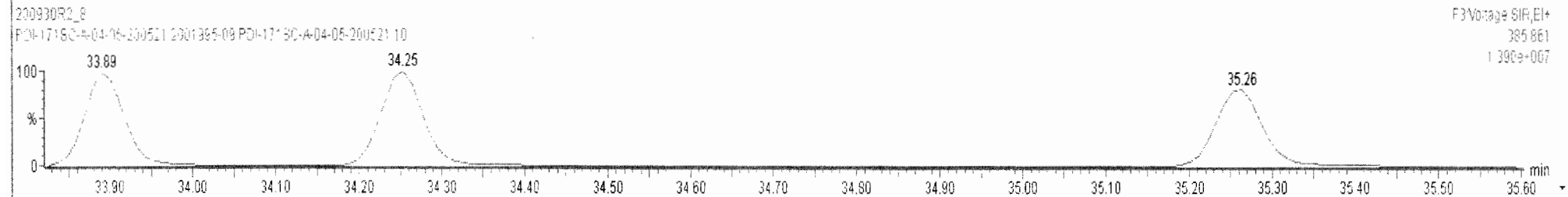
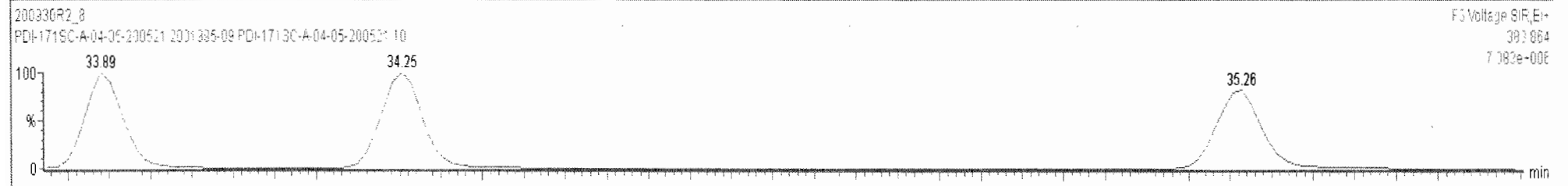
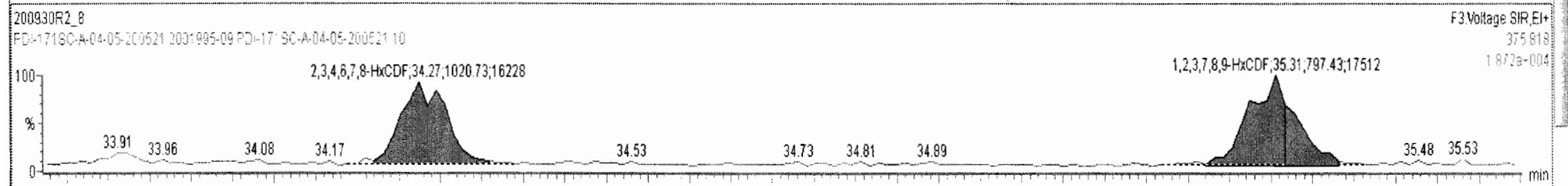
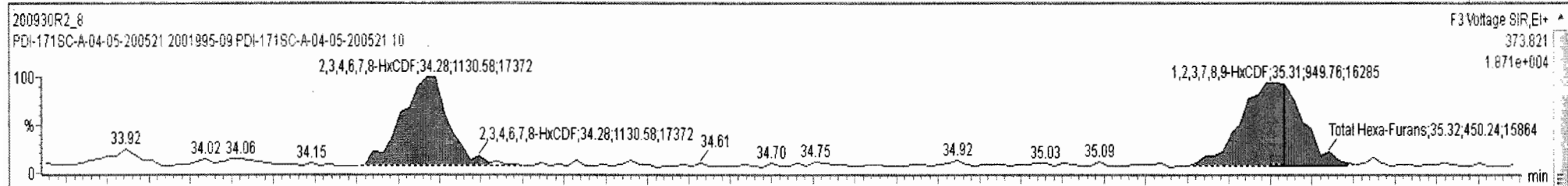
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Hexa-Furans	32.19	1.652e3	1.309e3	1.26	NO	0.57271	0.57271
2	Total Hexa-Furans	32.36	5.245e3	4.379e3	1.20	NO	1.8612	1.8612
3	Total Hexa-Furans	32.79	2.280e2	2.089e2	1.09	NO	0.084500	0.084500
4	Total Hexa-Furans	33.00	9.041e3	7.390e3	1.22	NO	3.1780	3.1780



200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9386	10.015			1.94		0.0113	1.94
45 Total Penta-Furans				0.9386	10.015			8.28		0.0442	8.39
46 Total Hexa-Furans				0.9386	10.015			9.48		0.0491	9.56

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.19	1.709e3	1.356e3	1.26	NO	0.59280	0.59280
2 Total Hexa-Furans	32.36	5.273e3	4.378e3	1.20	NO	1.8665	1.8665
3 Total Hexa-Furans	32.79	2.207e2	2.110e2	1.05	YES	0.077101	0.00000
4 Total Hexa-Furans	33.00	8.963e3	7.338e3	1.22	NO	3.1526	3.1526



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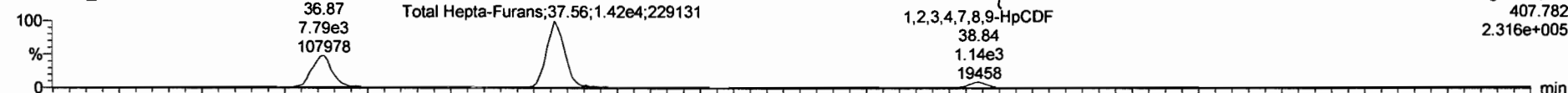
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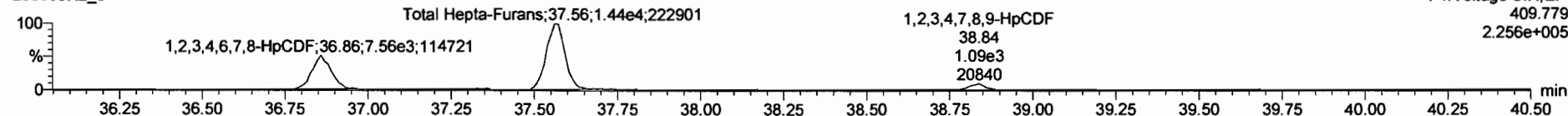
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**1,2,3,4,6,7,8-HpCDF**

200930R2\_8

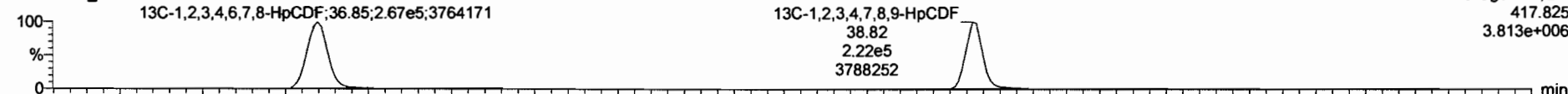


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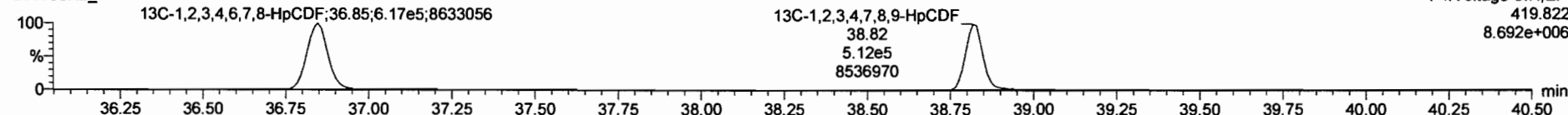


**13C-1,2,3,4,6,7,8-HpCDF**

200930R2\_8

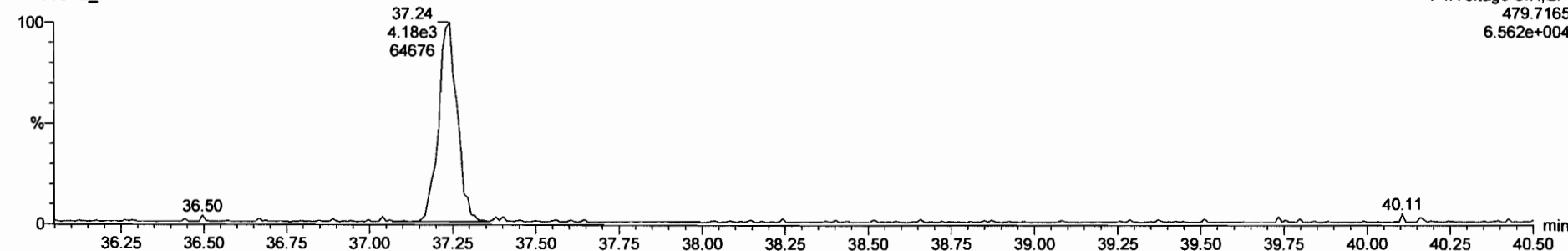


200930R2\_8



**DPE4**

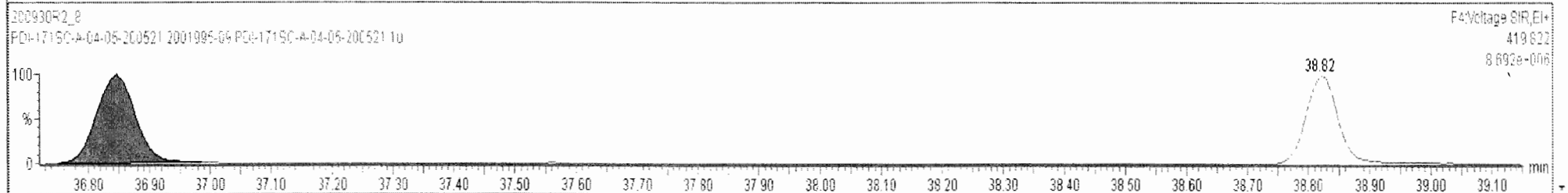
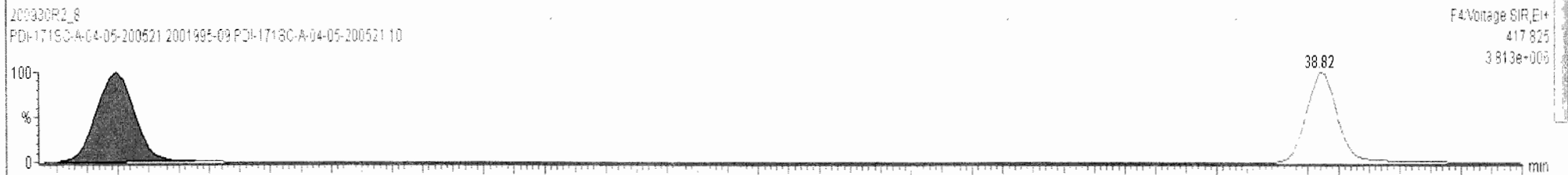
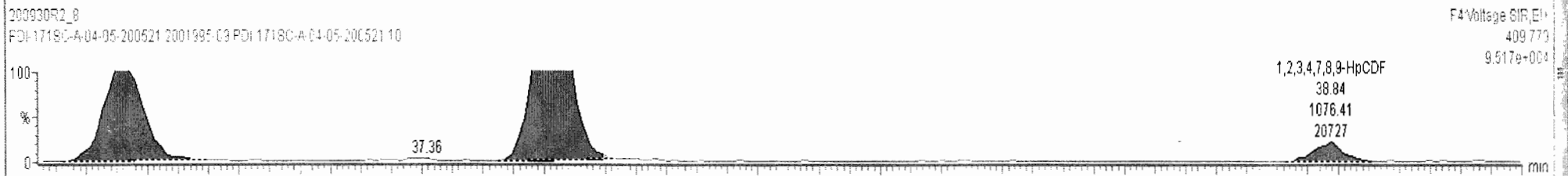
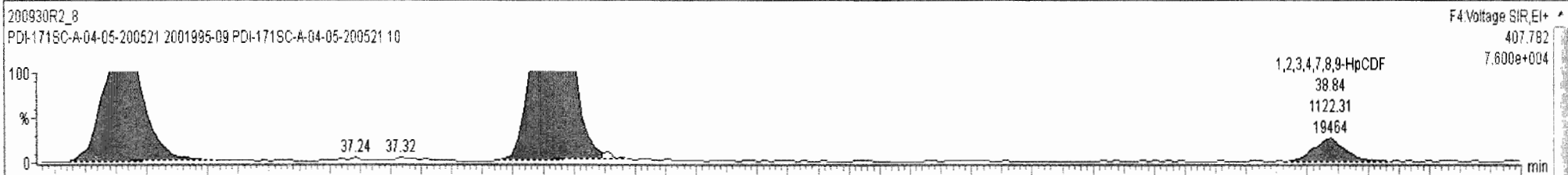
200930R2\_8



200930R2\_8 - 2001995-09 PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
46	Total Hexa-Furans			0.8699	10.015			9.48		0.0491	9.48
47	Total Hepta-Furans			0.8908	10.015			12.4		0.0858	12.4
48	IPFK1										

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	1,2,3,4,6,7,8-HpCDF	36.87	7.789e3	7.552e3	1.03	NO	3.8904	3.8904
2	Total Hepta-Furans	37.56	1.410e4	1.440e4	0.98	NO	7.8992	7.8992
3	1,2,3,4,7,8,9-HpCDF	38.84	1.122e3	1.076e3	1.04	NO	0.59842	0.59842





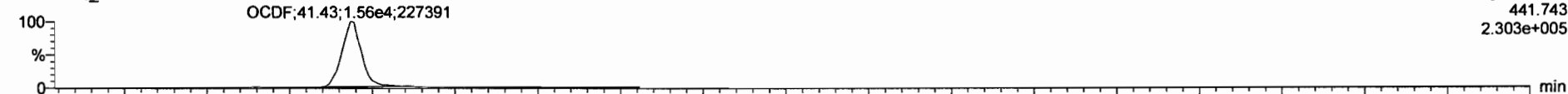
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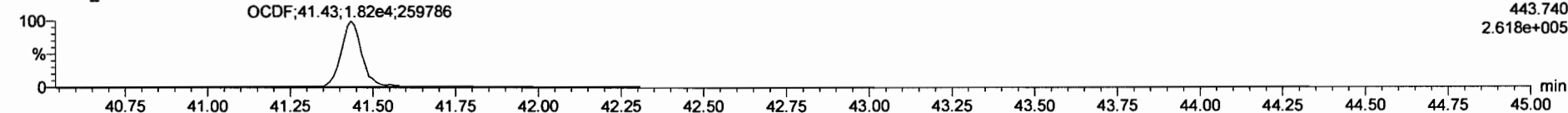
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**OCDF**

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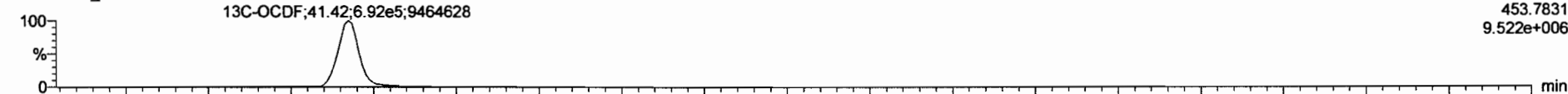


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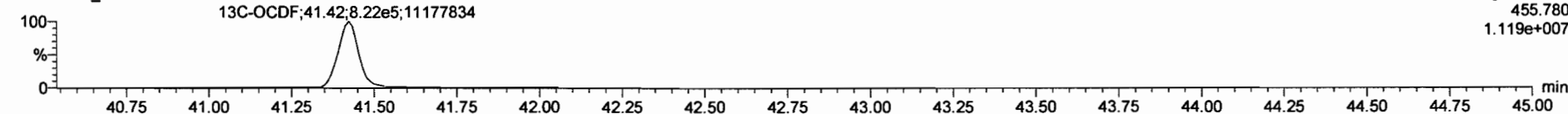


**13C-OCDF**

200930R2\_8

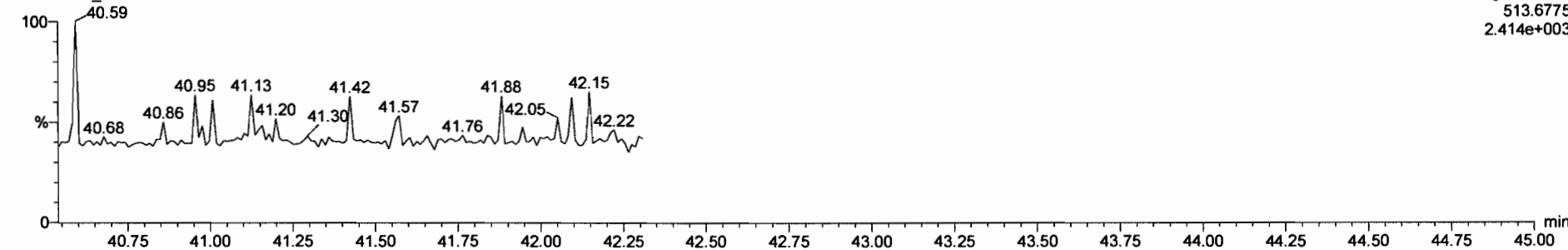


200930R2\_8



**DPE5**

200930R2\_8

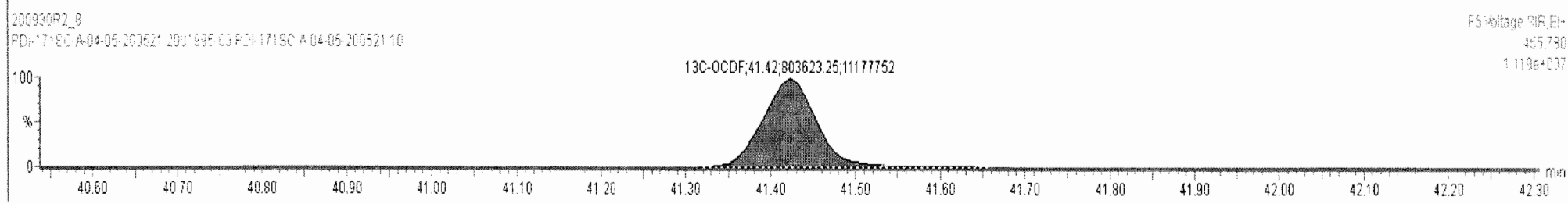
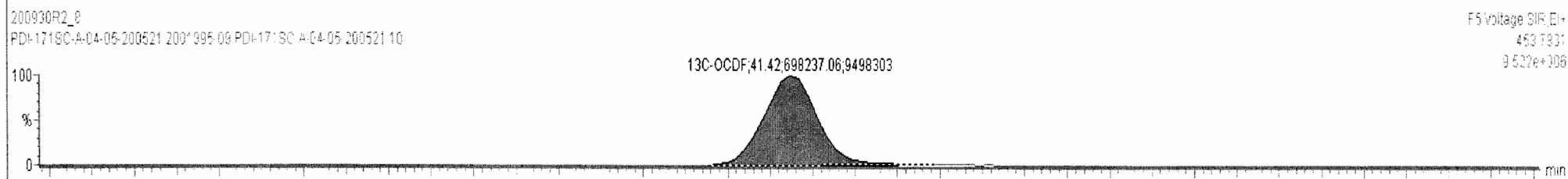
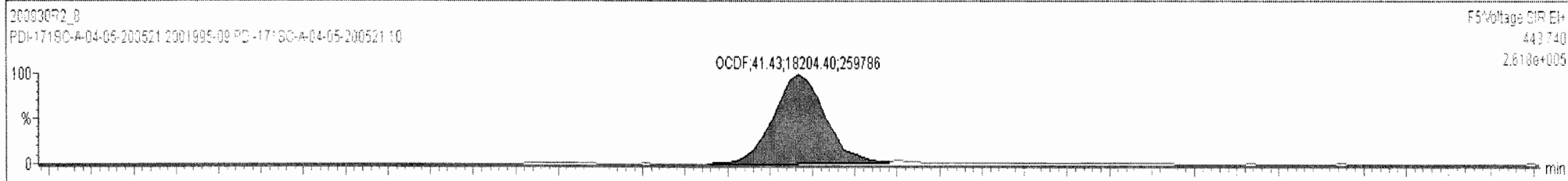
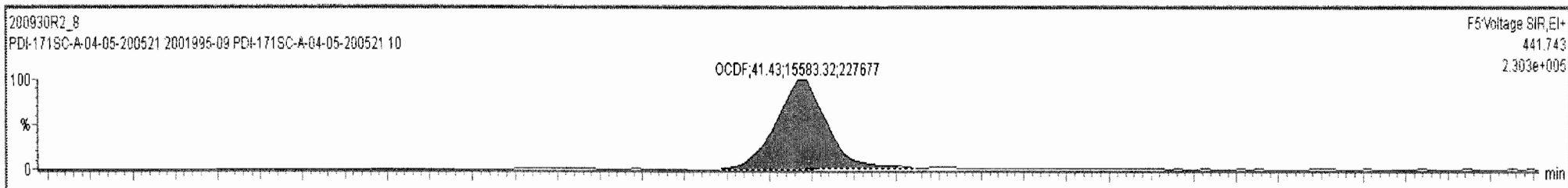




200930R2\_8 - 2001995-09-PDI-171SC-A-04-05-200521 10 - PDI-171SC-A-04-05-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDF	3.38e4	0.86	NO	0.7841	10.015	41.43	1.000	11.5	0.0830	11.5
18	13C-2,3,7,8-TCDD	1.73e6	0.79	NO	1.1521	10.015	26.42	1.029	240	120	0.148
19	13C-1,2,3,7,8-PeCDD	1.39e6	0.67	NO	0.8867	10.015	31.05	1.210	250	125	0.161

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

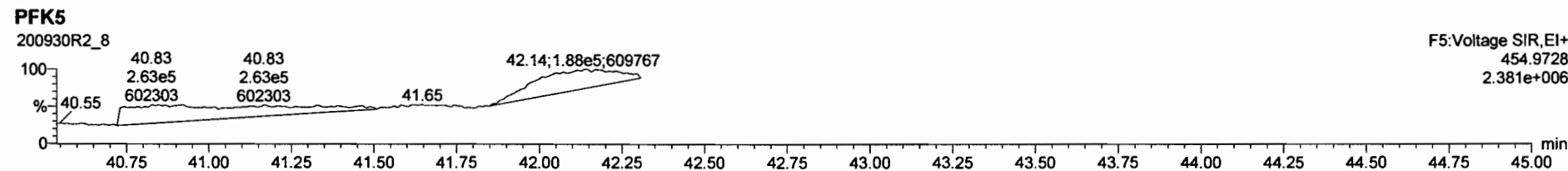
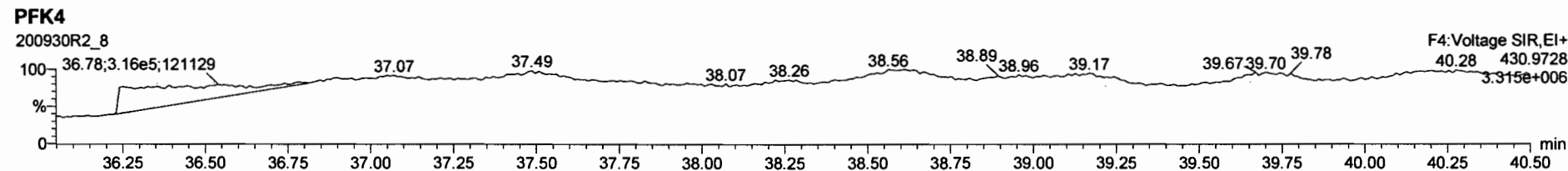
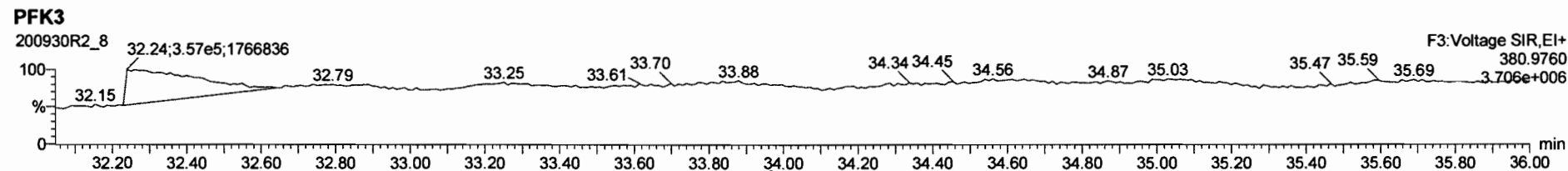
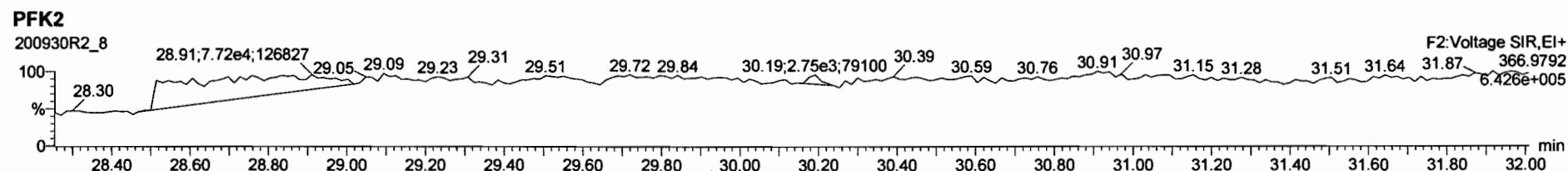
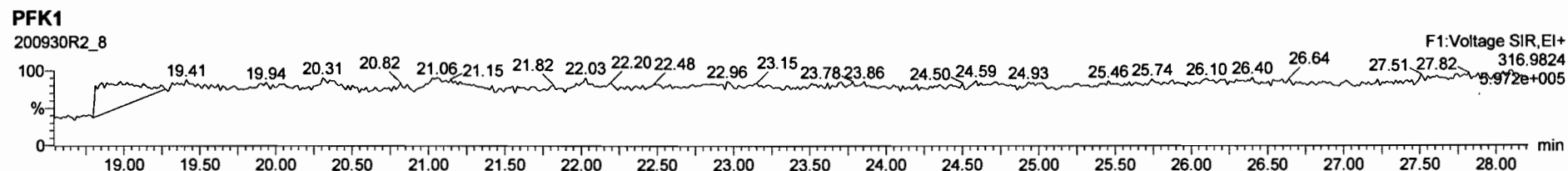


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Last Altered: Thursday, October 01, 2020 08:14:45 Pacific Daylight Time

Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

Name: 200930R2\_8, Date: 01-Oct-2020, Time: 03:04:51, ID: 2001995-09 PDI-171SC-A-04-05-200521-10, Description: PDI-171SC-A-04-05-200521



Dataset: U:\VG12.PRO\Results\200930R2\200930R2-9a.qld

Last Altered: Thursday, October 22, 2020 13:00:26 Pacific Daylight Time  
Printed: Thursday, October 22, 2020 13:06:11 Pacific Daylight Time

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Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

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Name: 200930R2\_9, Date: 01-Oct-2020, Time: 03:48:30, ID: 2001995-10 PDI-171SC-A-05-06-200521 10, Description: PDI-171SC-A-05-06-200521

#	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	1.47e3	0.37	YES	1.02	10.069	26.463	26.45	1.001	1.001	0.23675		0.0365	0.147
2	2 1,2,3,7,8-PeCDD	1.10e3	0.61	NO	0.956	10.069	31.085	31.08	1.001	1.000	0.23750		0.0672	0.237
3	3 1,2,3,4,7,8-HxCDD	9.48e2	1.26	NO	1.00	10.069	34.379	34.38	1.000	1.000	0.28292		0.0945	0.283
4	4 1,2,3,6,7,8-HxCDD	4.45e3	1.21	NO	0.888	10.069	34.497	34.50	1.000	1.000	1.3680		0.100	1.37
5	5 1,2,3,7,8,9-HxCDD	2.27e3	1.25	NO	0.909	10.069	34.774	34.78	1.000	1.001	0.70799		0.102	0.708
6	6 1,2,3,4,6,7,8-HpCDD	7.60e4	1.02	NO	0.832	10.069	38.222	38.22	1.000	1.000	36.403		0.369	36.4
7	7 OCDD	5.01e5	0.88	NO	0.862	10.069	41.147	41.16	1.000	1.000	328.68		0.630	329
8	8 2,3,7,8-TCDF	1.43e4	0.76	NO	0.735	10.069	25.770	25.77	1.000	1.001	2.4984		0.0486	2.50
9	9 1,2,3,7,8-PeCDF	2.65e4	1.52	NO	0.939	10.069	29.833	29.83	1.001	1.001	4.1236		0.0978	4.12
10	10 2,3,4,7,8-PeCDF	1.40e4	1.70	NO	1.05	10.069	30.884	30.88	1.001	1.000	1.9424		0.0799	1.94
11	11 1,2,3,4,7,8-HxCDF	2.77e4	1.20	NO	0.842	10.069	33.454	33.47	1.000	1.001	8.1758		0.0980	8.18
12	12 1,2,3,6,7,8-HxCDF	7.46e3	1.14	NO	0.894	10.069	33.602	33.60	1.000	1.000	2.1297		0.0972	2.13
13	13 2,3,4,6,7,8-HxCDF	2.85e3	1.35	NO	0.870	10.069	34.284	34.29	1.001	1.001	0.88192		0.109	0.882
14	14 1,2,3,7,8,9-HxCDF	2.13e3	0.95	YES	0.855	10.069	35.285	35.31	1.001	1.001	0.67426		0.119	0.594
15	15 1,2,3,4,6,7,8-HpCDF	1.49e4	0.97	NO	0.891	10.069	36.884	36.86	1.001	1.000	7.0667		0.165	7.07
16	16 1,2,3,4,7,8,9-HpCDF	3.46e3	1.01	NO	1.00	10.069	38.828	38.83	1.000	1.000	1.6241		0.131	1.62
17	17 OCDF	2.83e4	0.83	NO	0.784	10.069	41.434	41.46	1.000	1.001	19.365		0.234	19.4
18	18 13C-2,3,7,8-TCDD	1.21e6	0.77	NO	1.15	10.069	26.404	26.43	1.029	1.030	184.38	92.8	0.126	
19	19 13C-1,2,3,7,8-PeCDD	9.59e5	0.63	NO	0.887	10.069	30.993	31.06	1.207	1.210	189.39	95.3	0.219	
20	20 13C-1,2,3,4,7,8-HxCDD	6.65e5	1.27	NO	0.801	10.069	34.372	34.37	1.014	1.014	164.40	82.8	0.237	
21	21 13C-1,2,3,6,7,8-HxCDD	7.27e5	1.27	NO	0.892	10.069	34.501	34.50	1.018	1.018	161.54	81.3	0.213	
22	22 13C-1,2,3,7,8,9-HxCDD	7.00e5	1.27	NO	0.882	10.069	34.762	34.76	1.025	1.025	157.23	79.2	0.215	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.99e5	1.04	NO	0.719	10.069	38.196	38.21	1.127	1.127	137.49	69.2	0.381	
24	24 13C-OCDD	7.02e5	0.89	NO	0.563	10.069	41.125	41.15	1.213	1.214	247.20	62.2	0.622	
25	25 13C-2,3,7,8-TCDF	1.55e6	0.77	NO	1.01	10.069	25.747	25.76	1.003	1.004	187.60	94.4	0.165	
26	26 13C-1,2,3,7,8-PeCDF	1.36e6	1.59	NO	0.814	10.069	29.753	29.81	1.159	1.161	204.25	103	0.348	
27	27 13C-2,3,4,7,8-PeCDF	1.36e6	1.55	NO	0.768	10.069	30.790	30.86	1.200	1.203	216.69	109	0.369	
28	28 13C-1,2,3,4,7,8-HxCDF	8.00e5	0.50	NO	0.993	10.069	33.450	33.45	0.987	0.987	159.73	80.4	0.444	
29	29 13C-1,2,3,6,7,8-HxCDF	7.78e5	0.51	NO	0.990	10.069	33.593	33.59	0.991	0.991	155.75	78.4	0.445	
30	30 13C-2,3,4,6,7,8-HxCDF	7.39e5	0.51	NO	0.944	10.069	34.260	34.26	1.011	1.011	155.02	78.0	0.467	

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-9a.qld

Last Altered: Thursday, October 22, 2020 13:00:26 Pacific Daylight Time  
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Name: 200930R2\_9, Date: 01-Oct-2020, Time: 03:48:30, ID: 2001995-10 PDI-171SC-A-05-06-200521 10, Description: PDI-171SC-A-05-06-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPG
31	31 13C-1,2,3,7,8,9-HxCDF	7.34e5	0.50	NO	0.842	10.069	35.277	35.26	1.041	1.040	172.73	87.0	0.524	
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.70e5	0.44	NO	0.687	10.069	36.867	36.85	1.087	1.087	135.71	68.3	0.446	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.23e5	0.42	NO	0.555	10.069	38.817	38.83	1.145	1.145	151.19	76.1	0.552	
34	34 13C-OCDF	7.40e5	0.88	NO	0.608	10.069	41.407	41.43	1.221	1.222	241.02	60.7	0.376	
35	35 37Cl-2,3,7,8-TCDD	4.54e5			1.18	10.069	26.434	26.45	1.030	1.030	67.509	85.0	0.0414	
36	36 13C-1,2,3,4-TCDD	1.13e6	0.78	NO	1.00	10.069	25.740	25.67	1.000	1.000	198.64	100	0.146	
37	37 13C-1,2,3,4-TCDF	1.63e6	0.79	NO	1.00	10.069	24.310	24.22	1.000	1.000	198.64	100	0.167	
38	38 13C-1,2,3,4,6,9-HxCDF	1.00e6	0.51	NO	1.00	10.069	33.920	33.90	1.000	1.000	198.64	100	0.441	
39	39 Total Tetra-Dioxins				1.02	10.069	24.620		0.000		14.715		0.0365	14.9
40	40 Total Penta-Dioxins				0.956	10.069	29.960		0.000		1.6006		0.0672	2.20
41	41 Total Hexa-Dioxins				0.888	10.069	33.635		0.000		13.995		0.104	14.4
42	42 Total Hepta-Dioxins				0.832	10.069	37.640		0.000		93.116		0.369	93.1
43	43 Total Tetra-Furans				0.735	10.069	23.610		0.000		10.186		0.0486	10.5
44	44 1st Func. Penta-Furans				0.939	10.069	27.230		0.000		2.2633		0.0157	2.26
45	45 Total Penta-Furans				0.939	10.069	29.275		0.000		10.536		0.0936	10.7
46	46 Total Hexa-Furans				0.870	10.069	33.555		0.000		20.227		0.105	21.0
47	47 Total Hepta-Furans				0.891	10.069	37.835		0.000		23.048		0.157	23.0

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Dataset: U:\VG12.PRO\Results\200930R2\200930R2-9a.qld

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Method: Untitled 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\ddbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R2\_9, Date: 01-Oct-2020, Time: 03:48:30, ID: 2001995-10 PDI-171SC-A-05-06-200521 10, Description: PDI-171SC-A-05-06-200521

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.73	4.224e5	5.652e5	3.509e4	4.628e4	0.76	NO	8.137e4	13.118	13.118	0.0365
2	Total Tetra-Dioxins	23.08	2.106e4	2.548e4	1.694e3	2.215e3	0.77	NO	3.909e3	0.63018	0.63018	0.0365
3	Total Tetra-Dioxins	24.40	5.664e3	9.769e3	4.236e2	5.876e2	0.72	NO	1.011e3	0.16301	0.16301	0.0365
4	Total Tetra-Dioxins	24.62	5.638e3	8.454e3	4.759e2	6.207e2	0.77	NO	1.097e3	0.17677	0.17677	0.0365
5	Total Tetra-Dioxins	26.18	2.317e4	3.464e4	1.641e3	2.253e3	0.73	NO	3.894e3	0.62770	0.62770	0.0365
6	2,3,7,8-TCDD	26.45	8.696e3	1.696e4	3.959e2	1.073e3	0.37	YES	1.469e3	0.00000	0.14670	0.0365

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.83	2.648e4	3.726e4	1.882e3	2.811e3	0.67	NO	4.693e3	1.0169	1.0169	0.0672
2	Total Penta-Dioxins	29.31	7.495e3	1.145e4	3.352e2	7.171e2	0.47	YES	0.000e0	0.00000	0.18793	0.0672
3	Total Penta-Dioxins	29.83	1.431e4	1.746e4	3.940e2	4.796e2	0.82	YES	0.000e0	0.00000	0.16938	0.0672
4	Total Penta-Dioxins	30.00	6.939e3	1.279e4	2.692e2	1.292e3	0.21	YES	0.000e0	0.00000	0.15090	0.0672
5	Total Penta-Dioxins	30.32	7.430e3	1.302e4	5.770e2	1.021e3	0.57	NO	1.598e3	0.34623	0.34623	0.0672
6	Total Penta-Dioxins	30.60	5.156e3	4.552e3	2.062e2	2.584e2	0.80	YES	0.000e0	0.00000	0.091273	0.0672
7	1,2,3,7,8-PeCDD	31.08	9.615e3	1.637e4	4.159e2	6.802e2	0.61	NO	1.096e3	0.23750	0.23750	0.0672

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.73	1.832e5	1.651e5	9.317e3	7.696e3	1.21	NO	1.701e4	5.4582	5.4582	0.104
2	Total Hexa-Dioxins	33.35	2.312e4	1.868e4	1.349e3	1.086e3	1.24	NO	2.436e3	0.78141	0.78141	0.104
3	Total Hexa-Dioxins	33.63	1.331e5	9.667e4	8.908e3	7.095e3	1.26	NO	1.600e4	5.1341	5.1341	0.104
4	Total Hexa-Dioxins	33.73	1.673e4	1.058e4	7.819e2	5.004e2	1.56	YES	0.000e0	0.00000	0.35964	0.104
5	1,2,3,4,7,8-HxCDD	34.38	1.243e4	7.711e3	5.291e2	4.193e2	1.26	NO	9.485e2	0.28292	0.28292	0.0945
6	1,2,3,6,7,8-HxCDD	34.50	4.699e4	3.994e4	2.438e3	2.008e3	1.21	NO	4.446e3	1.3680	1.3680	0.100
7	Total Hexa-Dioxins	34.67	9.342e3	1.044e4	4.520e2	3.656e2	1.24	NO	8.176e2	0.26231	0.26231	0.104
8	1,2,3,7,8,9-HxCDD	34.78	2.062e4	1.731e4	1.259e3	1.010e3	1.25	NO	2.269e3	0.70799	0.70799	0.102

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Name: 200930R2\_9, Date: 01-Oct-2020, Time: 03:48:30, ID: 2001995-10 PDI-171SC-A-05-06-200521 10, Description: PDI-171SC-A-05-06-200521

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.25	8.493e5	8.458e5	5.959e4	5.885e4	1.01	NO	1.184e5	56.713	56.713	0.369
2	1,2,3,4,6,7,8-HpCDD	38.22	7.034e5	6.825e5	3.841e4	3.762e4	1.02	NO	7.602e4	36.403	36.403	0.369

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Furans	20.49	3.858e3	3.984e3	3.318e2	3.730e2	0.89	YES	0.000e0	0.00000	0.11508	0.0486
2	Total Tetra-Furans	21.06	4.305e3	6.098e3	3.342e2	4.923e2	0.68	NO	8.264e2	0.14405	0.14405	0.0486
3	Total Tetra-Furans	21.87	7.223e4	9.774e4	6.429e3	8.675e3	0.74	NO	1.510e4	2.6328	2.6328	0.0486
4	Total Tetra-Furans	22.76	2.074e4	2.853e4	1.866e3	2.657e3	0.70	NO	4.523e3	0.78845	0.78845	0.0486
5	Total Tetra-Furans	23.23	1.508e4	1.724e4	1.108e3	1.452e3	0.76	NO	2.559e3	0.44612	0.44612	0.0486
6	Total Tetra-Furans	23.57	9.356e3	7.462e3	5.702e2	6.239e2	0.91	YES	0.000e0	0.00000	0.19248	0.0486
7	Total Tetra-Furans	24.32	1.546e4	2.337e4	1.927e3	2.665e3	0.72	NO	4.592e3	0.80032	0.80032	0.0486
8	Total Tetra-Furans	24.78	7.499e4	1.050e5	5.104e3	7.031e3	0.73	NO	1.213e4	2.1151	2.1151	0.0486
9	Total Tetra-Furans	25.64	1.763e4	1.912e4	8.698e2	1.211e3	0.72	NO	2.081e3	0.36271	0.36271	0.0486
10	2,3,7,8-TCDF	25.77	9.782e4	1.235e5	6.175e3	8.158e3	0.76	NO	1.433e4	2.4984	2.4984	0.0486
11	Total Tetra-Furans	26.06	7.577e3	9.367e3	6.161e2	7.149e2	0.86	NO	1.331e3	0.23200	0.23200	0.0486
12	Total Tetra-Furans	27.61	6.202e3	1.139e4	3.933e2	5.579e2	0.70	NO	9.512e2	0.16580	0.16580	0.0486

**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	27.24	1.464e5	1.060e5	8.554e3	6.004e3	1.42	NO	1.456e4	2.2633	2.2633	0.0157

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Dataset: U:\VG12.PRO\Results\200930R2\200930R2-9a.qld

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Name: 200930R2\_9, Date: 01-Oct-2020, Time: 03:48:30, ID: 2001995-10 PDI-171SC-A-05-06-200521 10, Description: PDI-171SC-A-05-06-200521

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Furans	28.68	1.172e4	9.888e3	8.157e2	6.547e2	1.25	YES	0.000e0	0.00000	0.20863	0.0936
2	Total Penta-Furans	28.85	1.642e5	1.050e5	1.014e4	6.746e3	1.50	NO	1.688e4	2.6245	2.6245	0.0936
3	Total Penta-Furans	29.49	3.042e4	1.881e4	1.818e3	1.122e3	1.62	NO	2.939e3	0.45698	0.45698	0.0936
4	Total Penta-Furans	29.63	2.832e4	2.089e4	1.235e3	8.832e2	1.40	NO	2.118e3	0.32924	0.32924	0.0936
5	1,2,3,7,8-PeCDF	29.83	3.326e5	2.193e5	1.599e4	1.052e4	1.52	NO	2.652e4	4.1236	4.1236	0.0978
6	Total Penta-Furans	30.09	7.814e4	6.066e4	4.188e3	2.628e3	1.59	NO	6.816e3	1.0596	1.0596	0.0936
7	2,3,4,7,8-PeCDF	30.88	1.798e5	1.099e5	8.797e3	5.178e3	1.70	NO	1.398e4	1.9424	1.9424	0.0799

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.20	3.506e4	2.746e4	1.741e3	1.334e3	1.31	NO	3.075e3	0.92075	0.92075	0.105
2	Total Hexa-Furans	32.37	1.265e5	1.118e5	5.938e3	4.951e3	1.20	NO	1.089e4	3.2607	3.2607	0.105
3	Total Hexa-Furans	32.77	5.171e3	4.964e3	1.847e2	2.062e2	0.90	YES	0.000e0	0.00000	0.099889	0.105
4	Total Hexa-Furans	33.01	1.576e5	1.369e5	8.203e3	6.892e3	1.19	NO	1.509e4	4.5199	4.5199	0.105
5	Total Hexa-Furans	33.34	5.371e3	6.926e3	2.365e2	2.676e2	0.88	YES	0.000e0	0.00000	0.12792	0.105
6	1,2,3,4,7,8-HxCDF	33.47	3.017e5	2.548e5	1.510e4	1.262e4	1.20	NO	2.772e4	8.1758	8.1758	0.0980
7	1,2,3,6,7,8-HxCDF	33.60	6.788e4	6.167e4	3.977e3	3.479e3	1.14	NO	7.456e3	2.1297	2.1297	0.0972
8	2,3,4,6,7,8-HxCDF	34.29	2.395e4	1.944e4	1.640e3	1.213e3	1.35	NO	2.853e3	0.88192	0.88192	0.109
9	1,2,3,7,8,9-HxCDF	35.31	2.713e4	2.347e4	1.039e3	1.090e3	0.95	YES	2.129e3	0.00000	0.59445	0.119
10	Total Hexa-Furans	35.32	2.166e4	2.049e4	5.900e2	5.409e2	1.09	NO	1.131e3	0.33866	0.33866	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	36.86	1.045e5	1.028e5	7.348e3	7.556e3	0.97	NO	1.490e4	7.0667	7.0667	0.165
2	Total Hepta-Furans	37.57	2.362e5	2.302e5	1.435e4	1.441e4	1.00	NO	2.876e4	14.357	14.357	0.157
3	1,2,3,4,7,8,9-HpCDF	38.83	2.908e4	3.028e4	1.739e3	1.720e3	1.01	NO	3.459e3	1.6241	1.6241	0.131



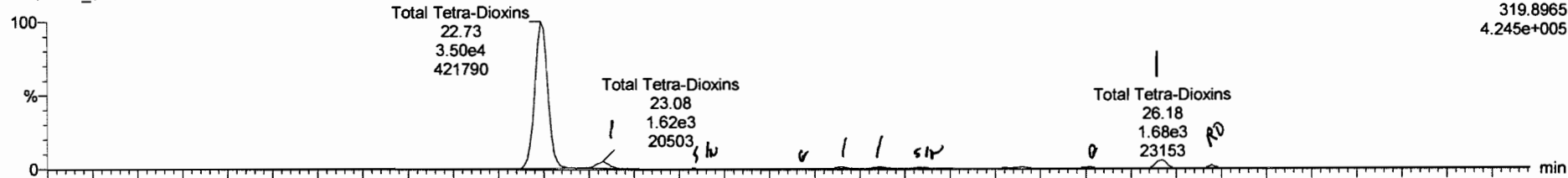
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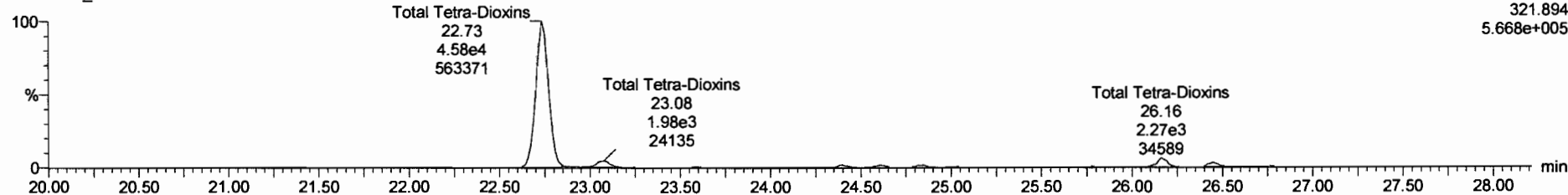
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**2,3,7,8-TCDD**

200930R2\_9



200930R2\_9

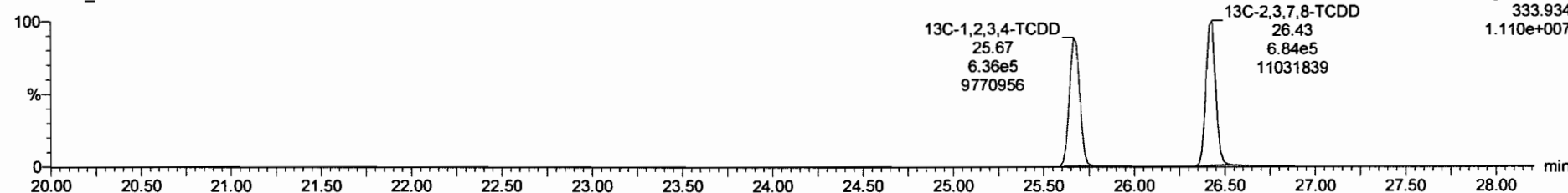


**13C-2,3,7,8-TCDD**

200930R2\_9



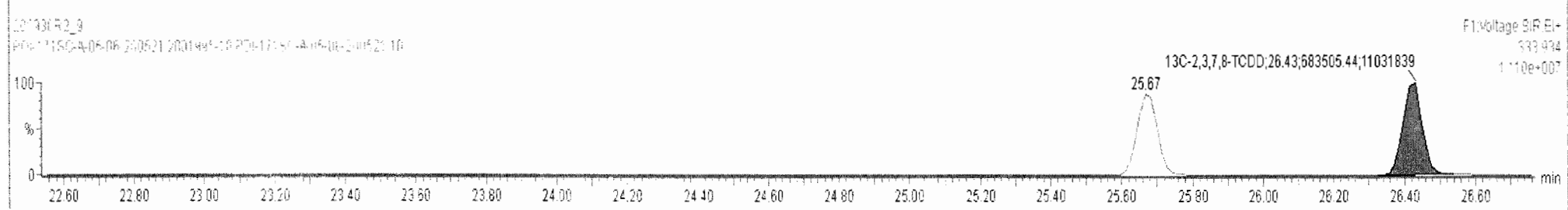
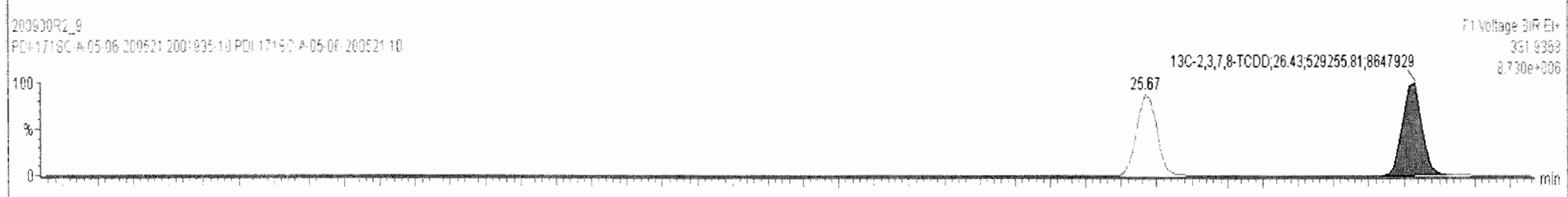
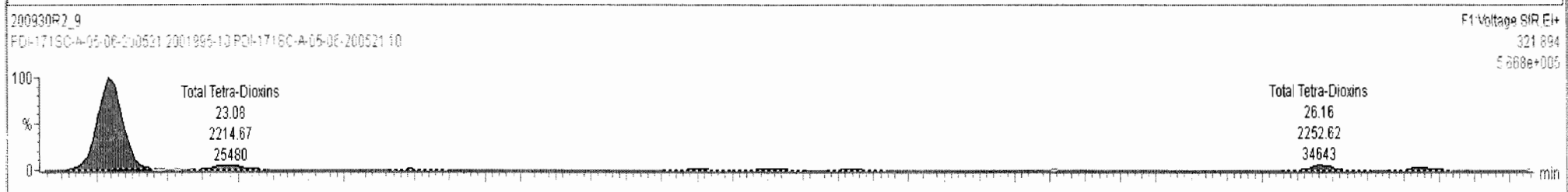
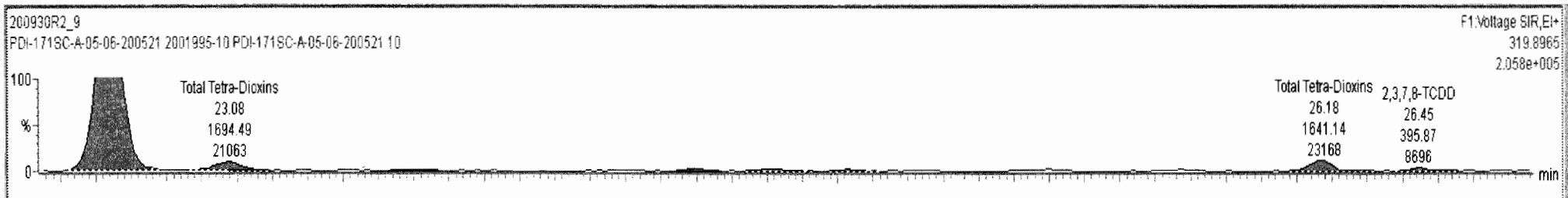
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200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.069			14.8		0.0365	15.0
40 Total Penta-Dioxins				0.9561	10.069			1.65		0.0671	2.50
41 Total Hexa-Dioxins				0.8879	10.069			13.8		0.104	14.4

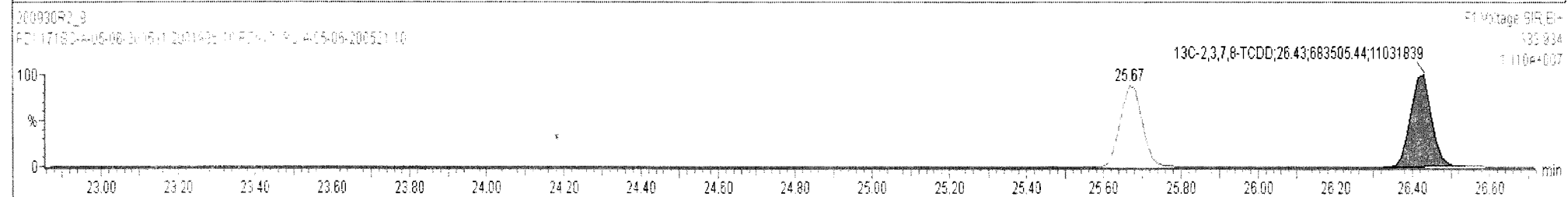
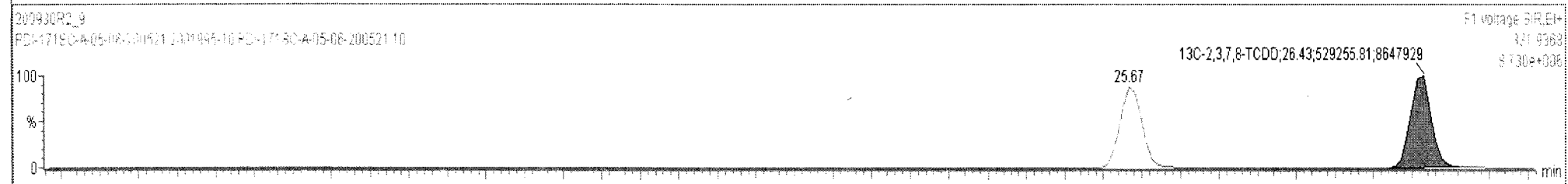
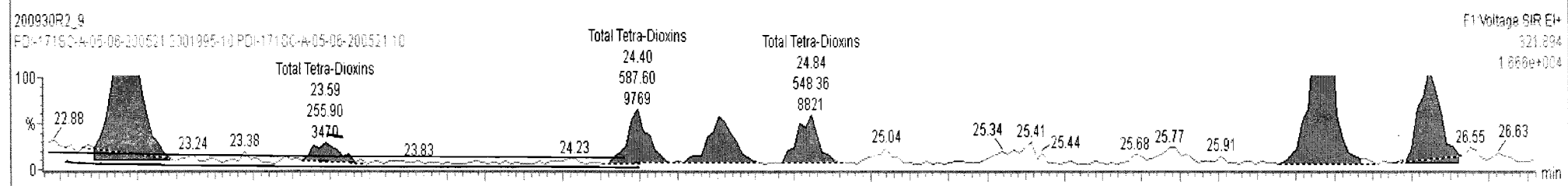
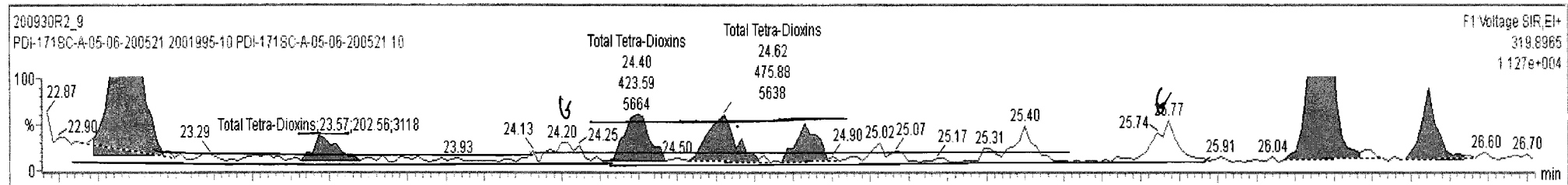
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.73	3.509e4	4.628e4	0.76	NO	13.118	13.118
2 Total Tetra-Dioxins	23.08	1.894e3	2.215e3	0.77	NO	0.63018	0.63018
3 Total Tetra-Dioxins	23.57	2.026e2	2.559e2	0.79	NO	0.073907	0.073907
4 Total Tetra-Dioxins	24.40	4.236e2	5.876e2	0.72	NO	0.16301	0.16301



200930R2\_9 - 2001995-10 PDI-1715C-A-05-06-200521 10 - PDI-1715C-A-05-06-200521

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.069			14.8		0.0365	15.0
40 Total Penta-Dioxins				0.9561	10.069			1.65		0.0671	2.50
41 Total Hexa-Dioxins				0.8879	10.069			13.8		0.104	14.4

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	22.73	3.509e4	4.626e4	0.76	NO	13.118	13.118
2 Total Tetra-Dioxins	23.08	1.694e3	2.215e3	0.77	NO	0.63018	0.63018
3 Total Tetra-Dioxins	23.57	2.026e2	2.559e2	0.79	NO	0.073907	0.073907
4 Total Tetra-Dioxins	24.40	4.236e2	5.876e2	0.72	NO	0.16301	0.16301



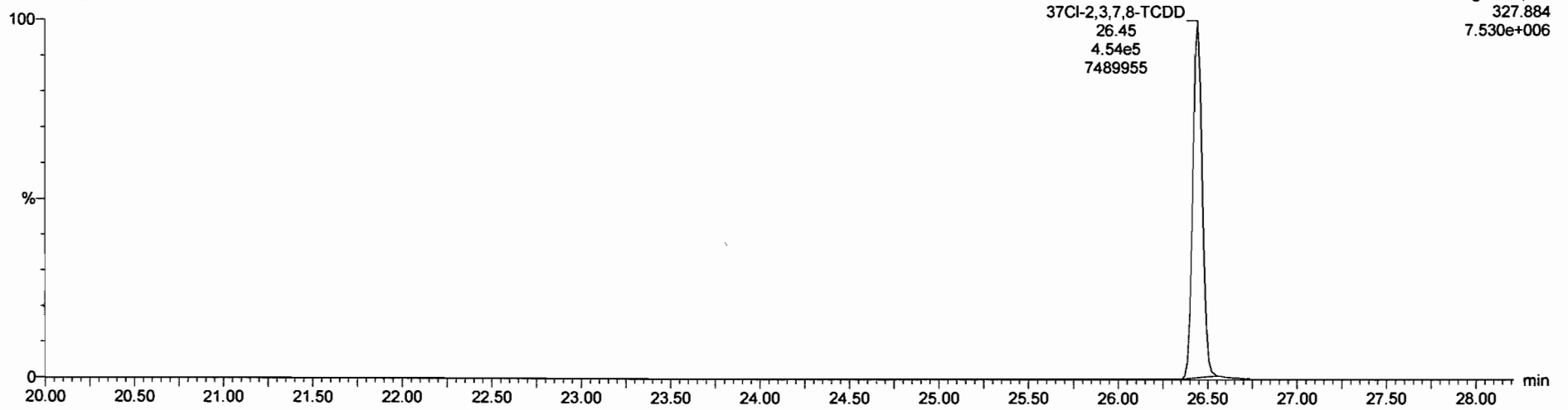
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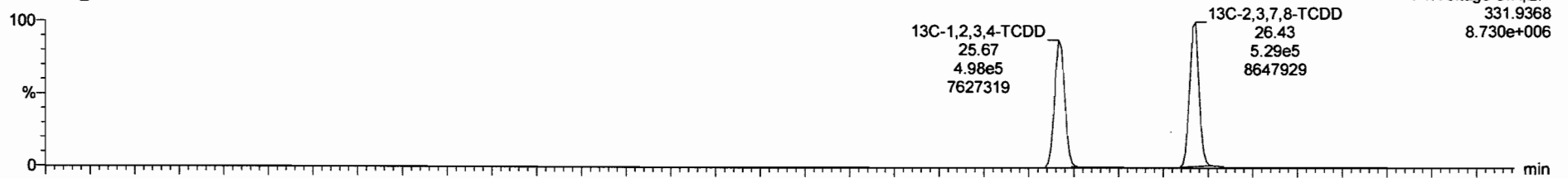
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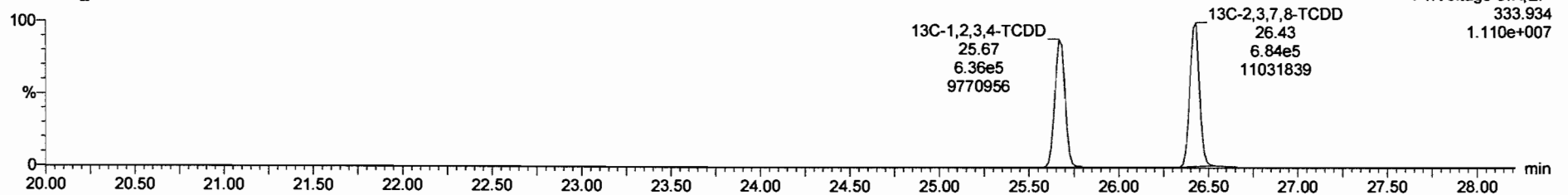


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200930R2\_9



200930R2\_9

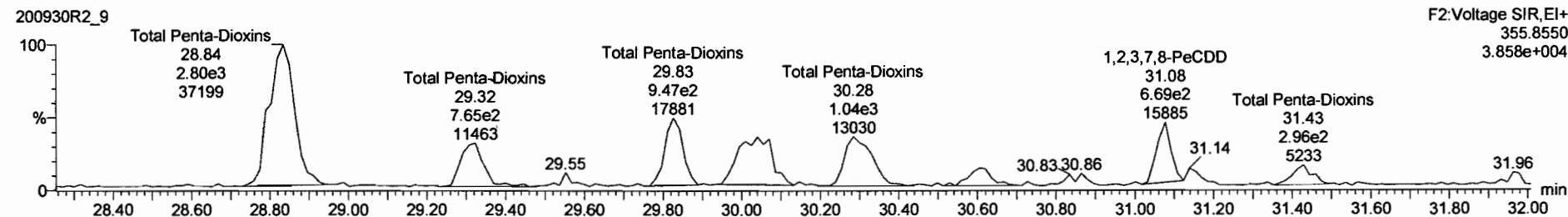
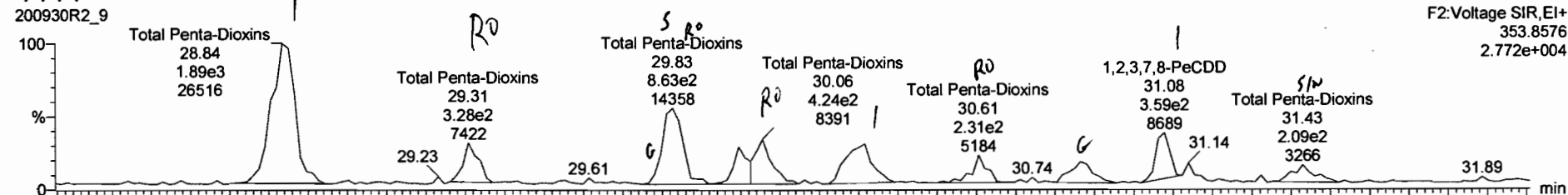


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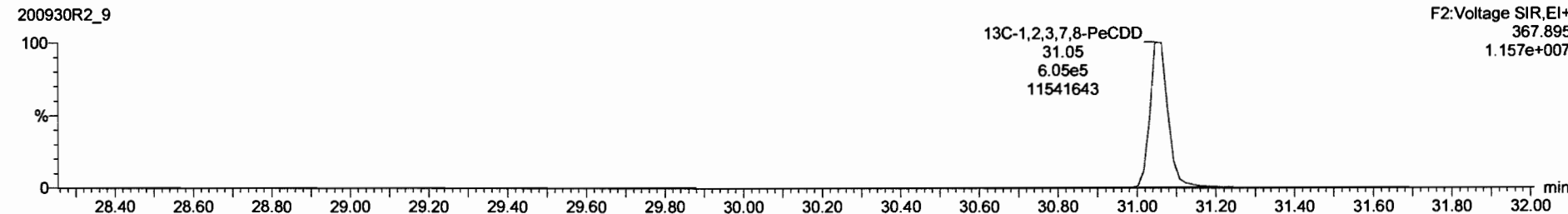
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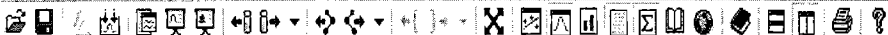
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### 1,2,3,7,8-PeCDD



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

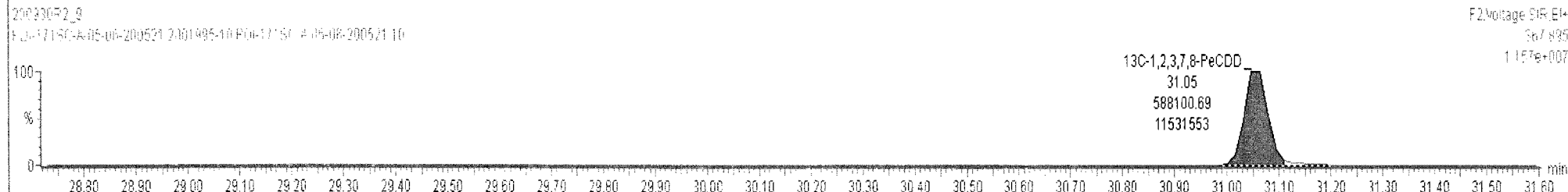
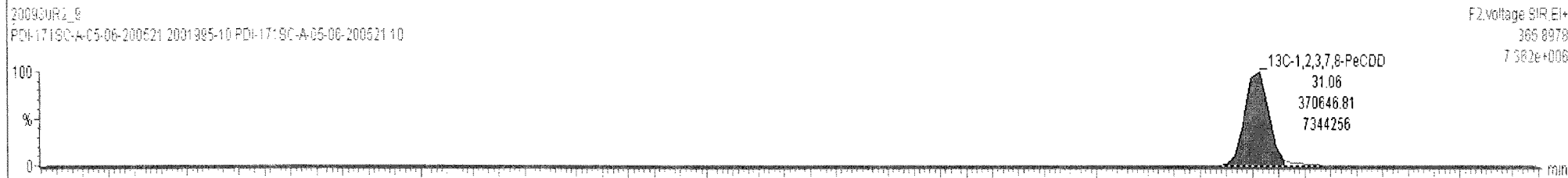
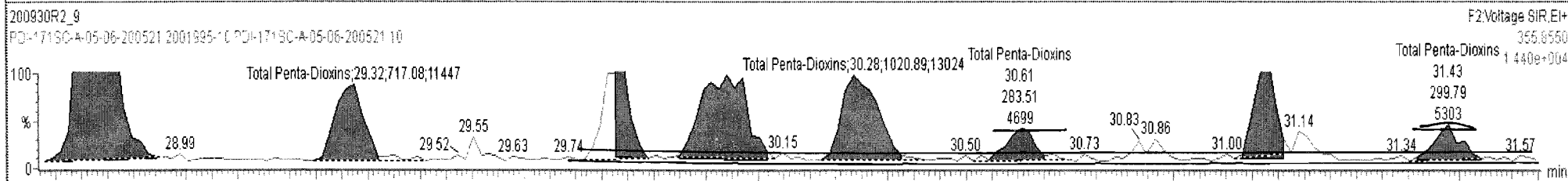
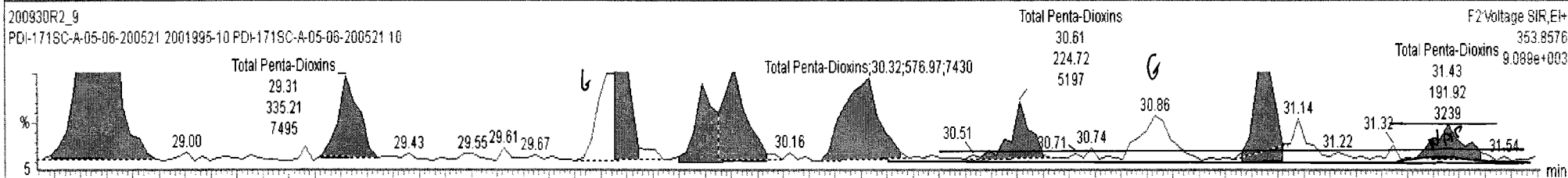




200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9561	10.069			2.14		0.0672	2.60
41 Total Hexa-Dioxins				0.8879	10.069			13.8		0.104	14.4
42 Total Henta-Dioxins				0.8316	10.069			93.1		0.369	93.1

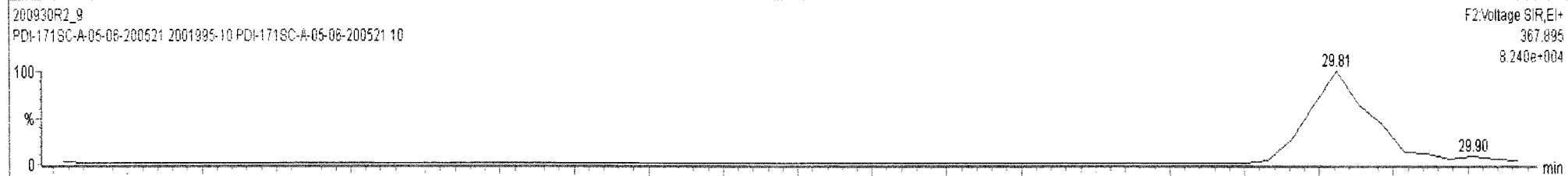
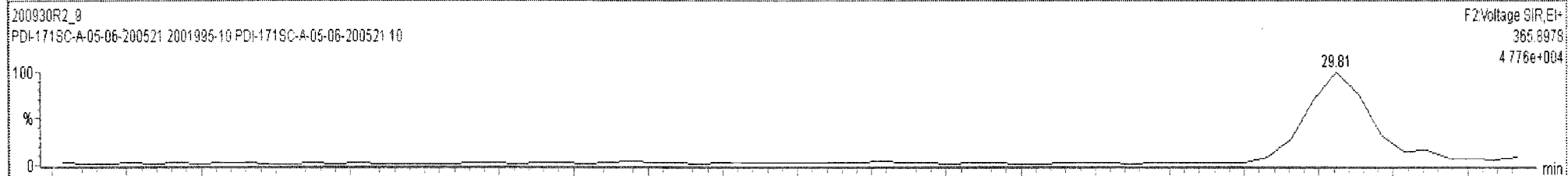
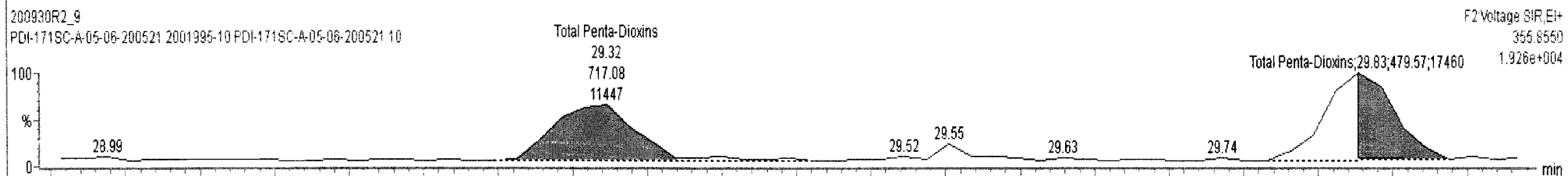
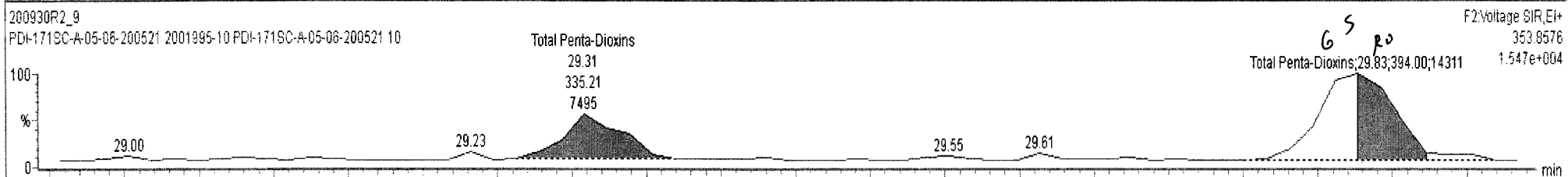
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.84	1.882e3	2.811e3	0.67	NO	1.0169	1.0169
2 Total Penta-Dioxins	29.31	3.352e2	7.171e2	0.47	YES	0.18793	0.00000
3 Total Penta-Dioxins	29.83	3.940e2	4.796e2	0.82	YES	0.16938	0.00000
4 Total Penta-Dioxins	30.06	7.053e2	1.292e3	0.55	NO	0.43278	0.43278



200930R2\_9 - 2001995-10-PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9581	10.069			2.14		0.0672	2.60
41 Total Hexa-Dioxins				0.8879	10.069			13.8		0.104	14.4
42 Total Hepta-Dioxins				0.8316	10.069			93.1		0.369	93.1

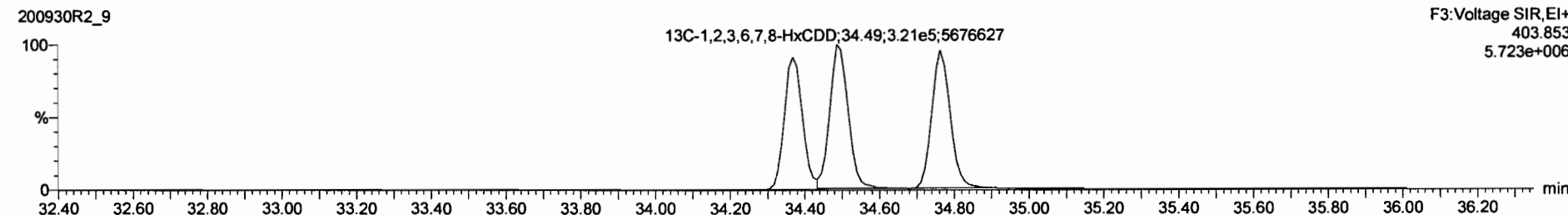
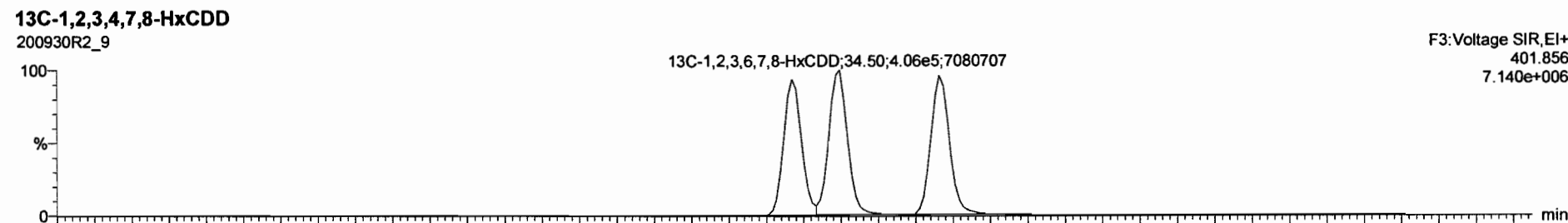
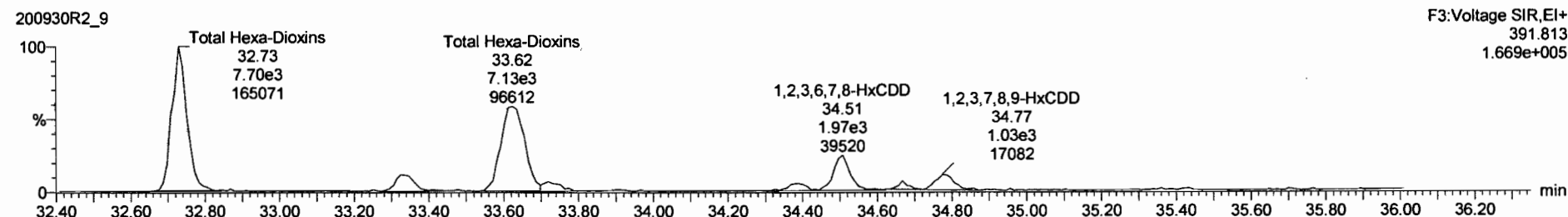
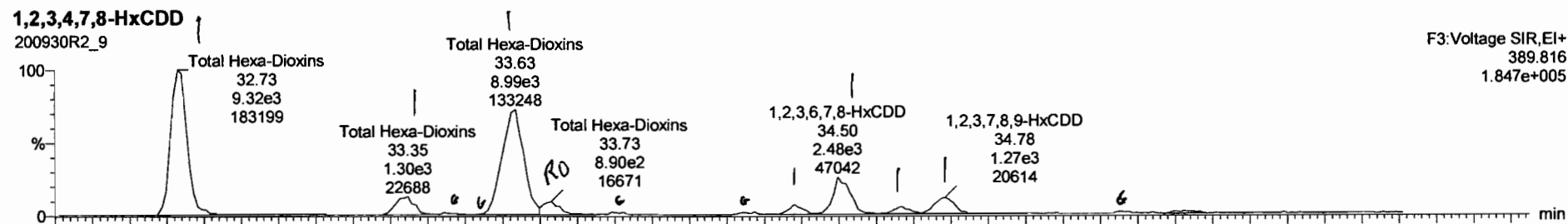
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.84	1.882e3	2.811e3	0.67	NO	1.0169	1.0169
2 Total Penta-Dioxins	29.31	3.352e2	7.171e2	0.47	YES	0.18793	0.00000
3 Total Penta-Dioxins	29.83	3.940e2	4.796e2	0.82	YES	0.16938	0.00000
4 Total Penta-Dioxins	30.06	7.053e2	1.292e3	0.55	NO	0.43278	0.43278



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Name: 200930R2\_9, Date: 01-Oct-2020, Time: 03:48:30, ID: 2001995-10 PDI-171SC-A-05-06-200521 10, Description: PDI-171SC-A-05-06-200521

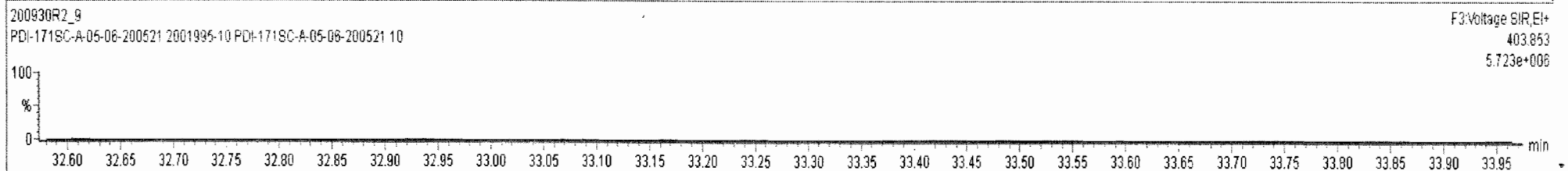
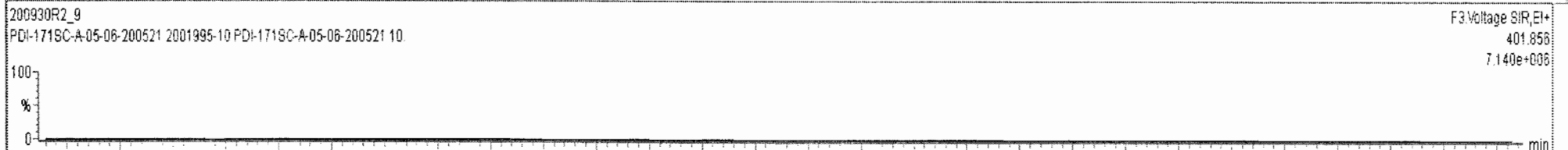
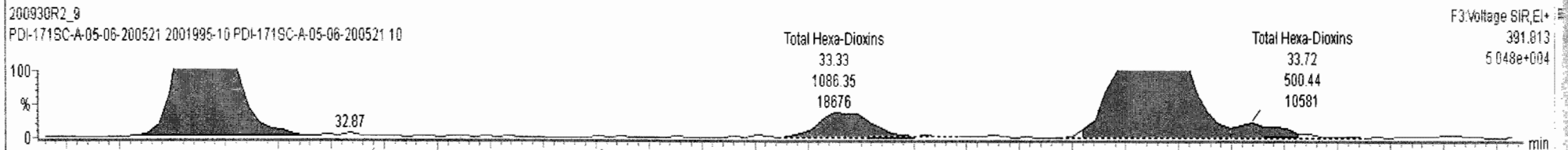
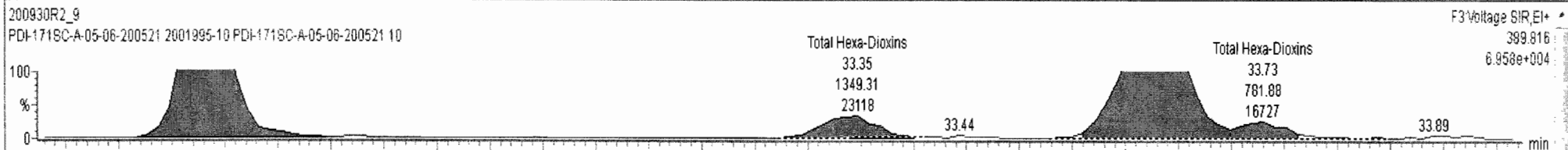




200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9561	10.069			2.03		0.0672	2.48
41 Total Hexa-Dioxins				0.8879	10.069			13.7		0.104	14.4
42 Total Henta-Dioxins				0.8316	10.069			93.1		0.3681	93.1

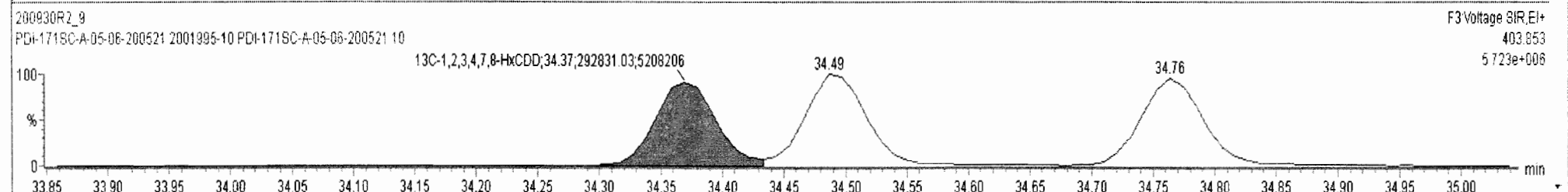
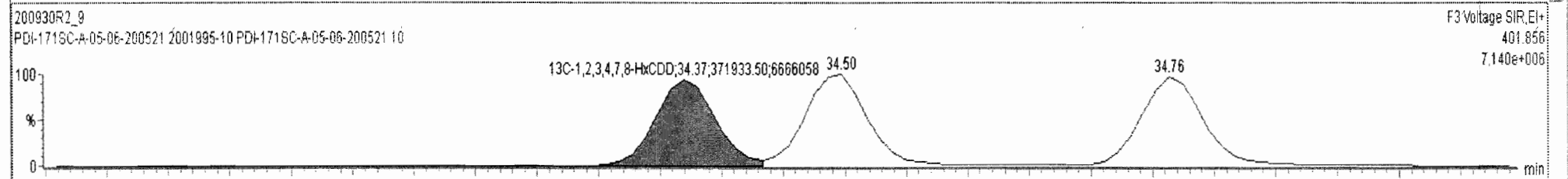
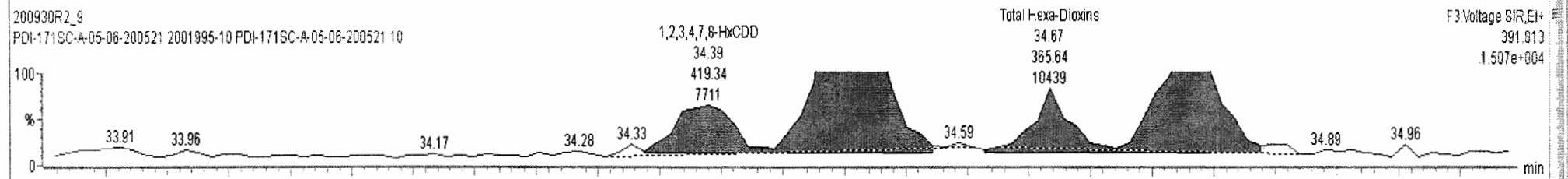
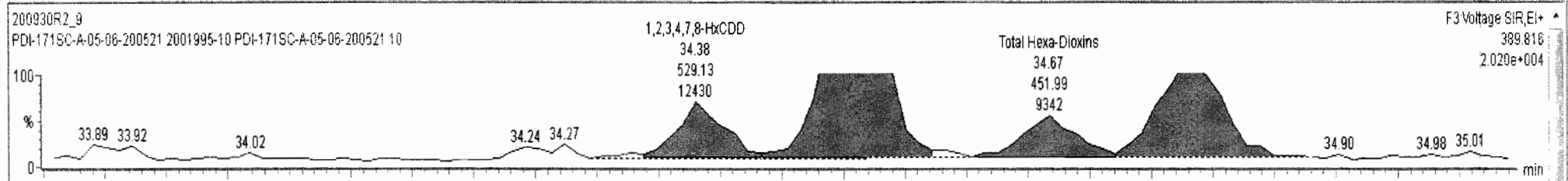
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.73	9.317e3	7.696e3	1.21	NO	5.4582	5.4582
2 Total Hexa-Dioxins	33.35	1.349e3	1.086e3	1.24	NO	0.78141	0.78141
3 Total Hexa-Dioxins	33.63	8.908e3	7.095e3	1.26	NO	5.1341	5.1341
4 Total Hexa-Dioxins	33.73	7.819e2	5.004e2	1.56	YES	0.35964	0.00000
5 1,2,3,4,7,8-HxCDD	34.38	5.291e2	4.193e2	1.26	NO	0.28292	0.28292
6 1,2,3,6,7,8-HxCDD	34.50	2.438e3	2.008e3	1.21	NO	1.3680	1.3680
7 Total Hexa-Dioxins	34.67	4.520e2	3.656e2	1.24	NO	0.26231	0.00000
8 1,2,3,7,8,9-HxCDD	34.78	1.259e3	1.010e3	1.25	NO	0.70799	0.70799



200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9561	10.069			2.03		0.0672	2.48
41 Total Hexa-Dioxins				0.8879	10.069			13.7		0.104	14.4
42 Total Hepta-Dioxins				0.8316	10.069			931		0.369	931

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.73	9.317e3	7.696e3	1.21	NO	5.4582	5.4582
2 Total Hexa-Dioxins	33.35	1.349e3	1.086e3	1.24	NO	0.78141	0.78141
3 Total Hexa-Dioxins	33.63	8.908e3	7.085e3	1.26	NO	5.1341	5.1341
4 Total Hexa-Dioxins	33.73	7.819e2	5.004e2	1.56	YES	0.35964	0.00000



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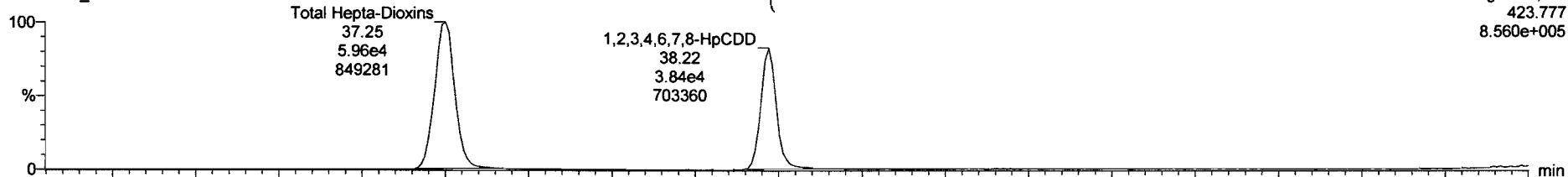
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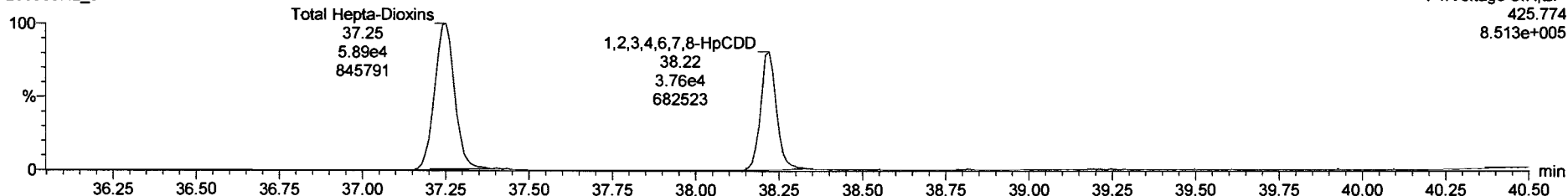
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**1,2,3,4,6,7,8-HpCDD**

200930R2\_9

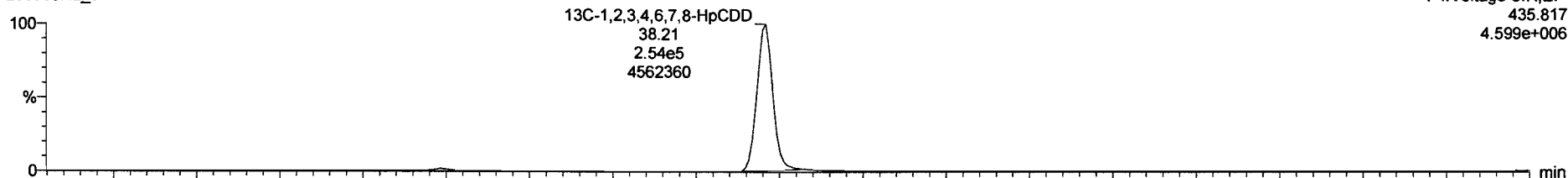


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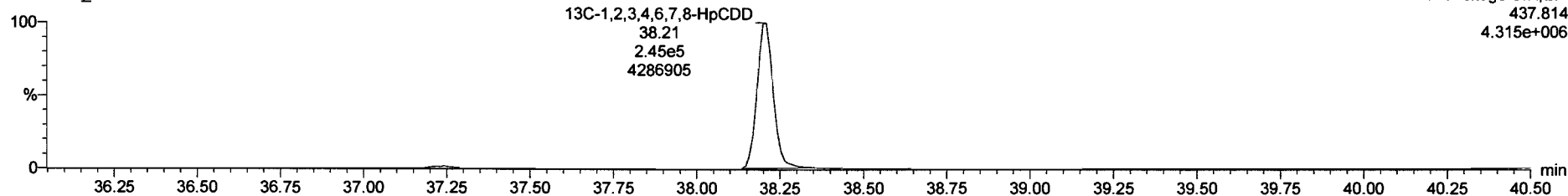


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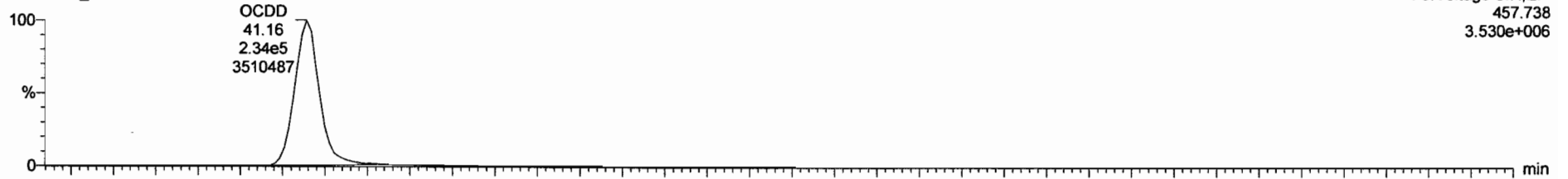
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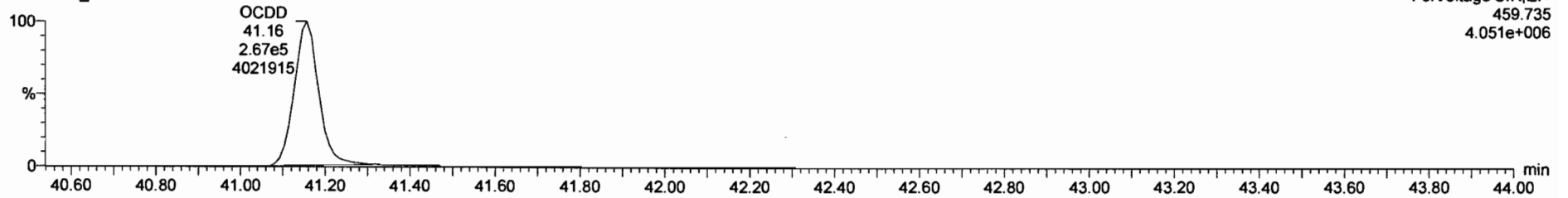
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**OCDD**

200930R2\_9

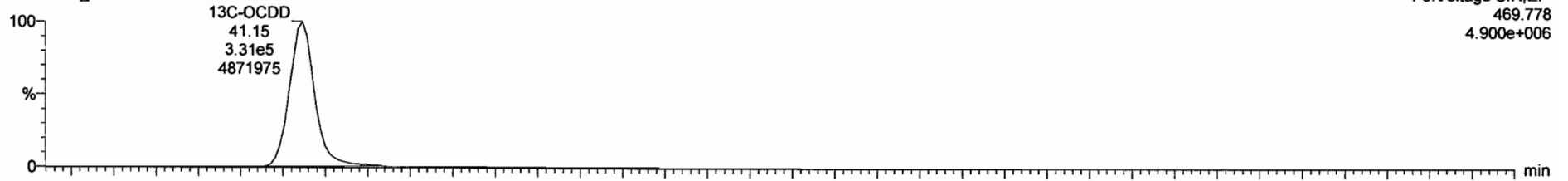


200930R2\_9

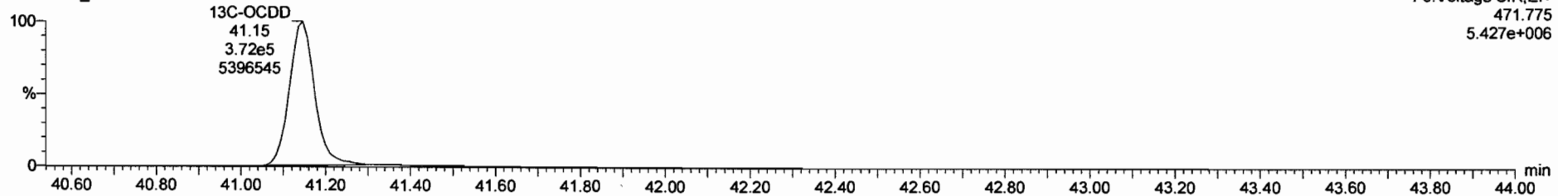


**13C-OCDD**

200930R2\_9



200930R2\_9



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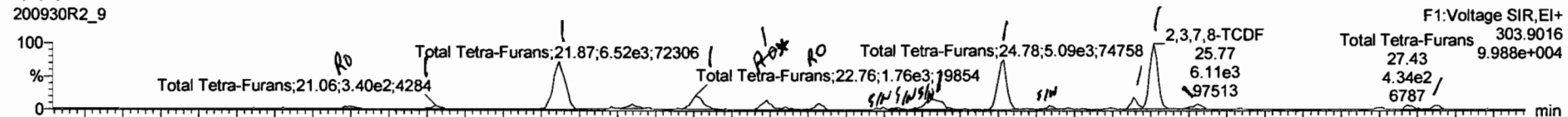
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\*by 10-01-2020

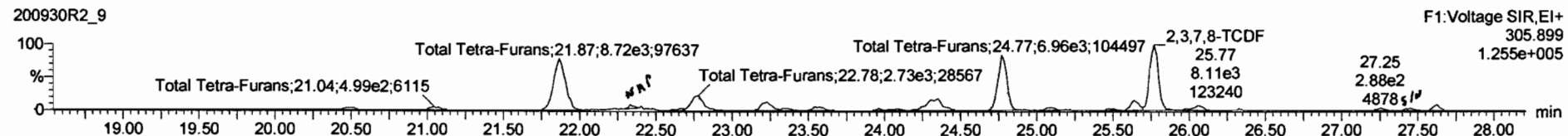
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**2,3,7,8-TCDF**

200930R2\_9

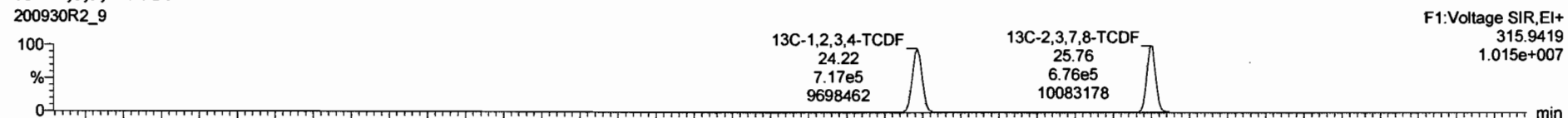


200930R2\_9

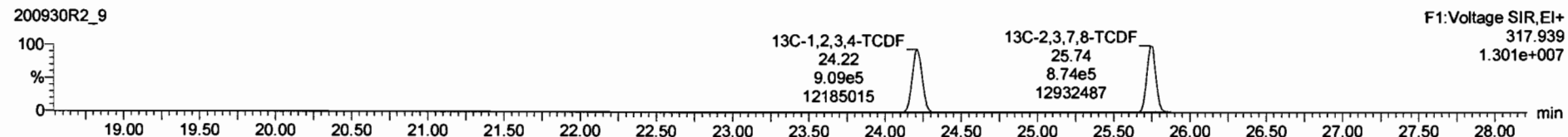


**13C-2,3,7,8-TCDF**

200930R2\_9

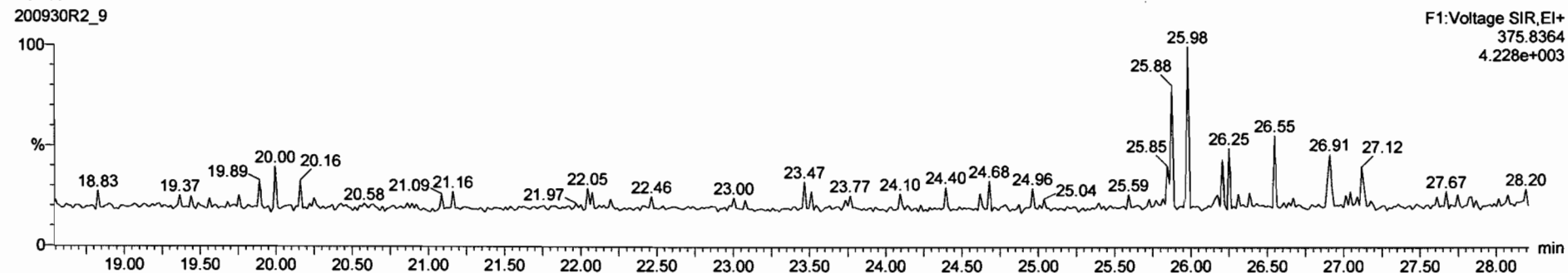


200930R2\_9



**DPE1**

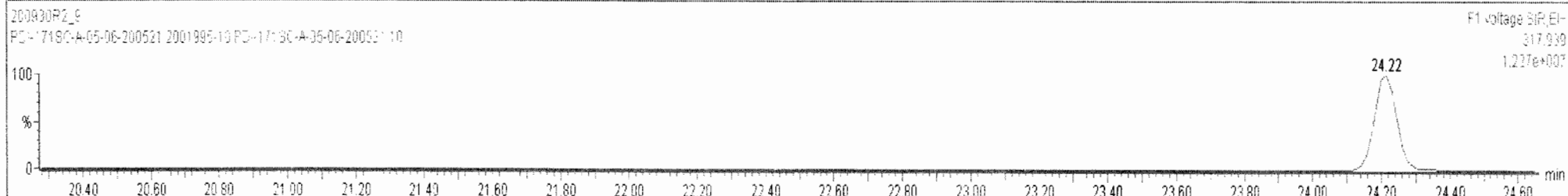
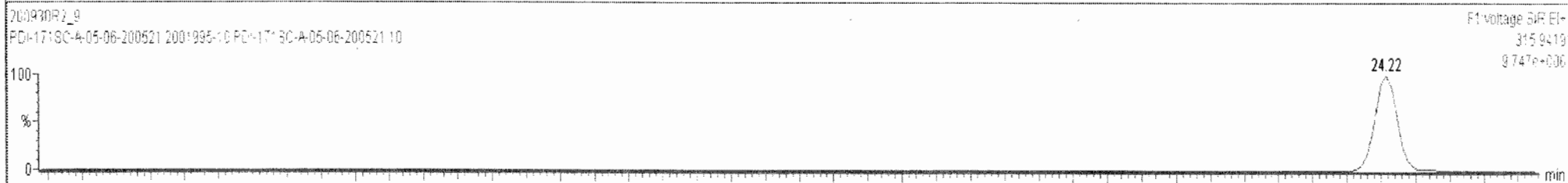
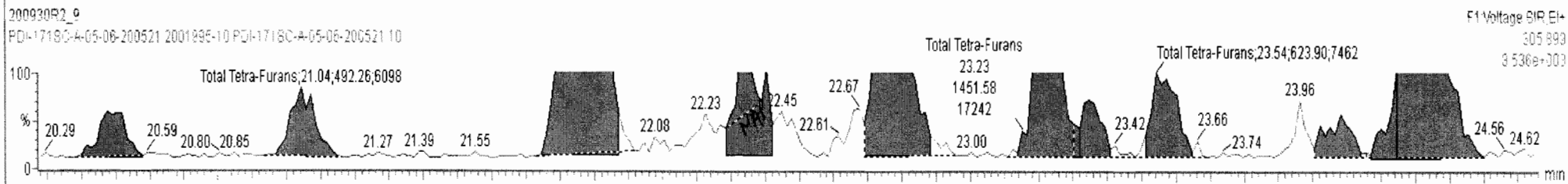
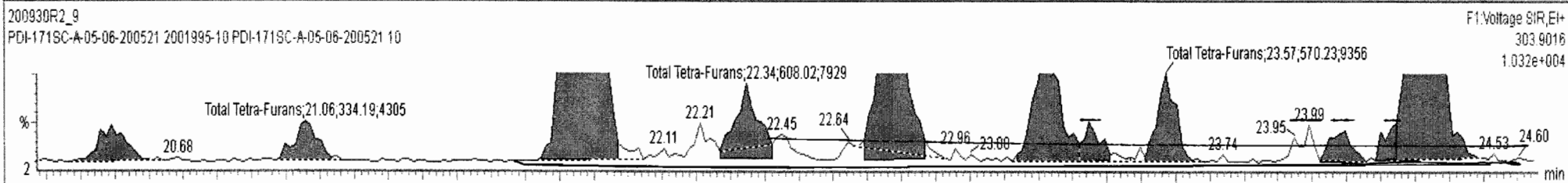
200930R2\_9



200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.069			10.8		0.0486	11.2
44 1st Func. Penta-Furans				0.9386	10.069			2.26		0.0157	2.26
45 Total Penta-Furans				0.9386	10.069			10.5		0.0936	10.7

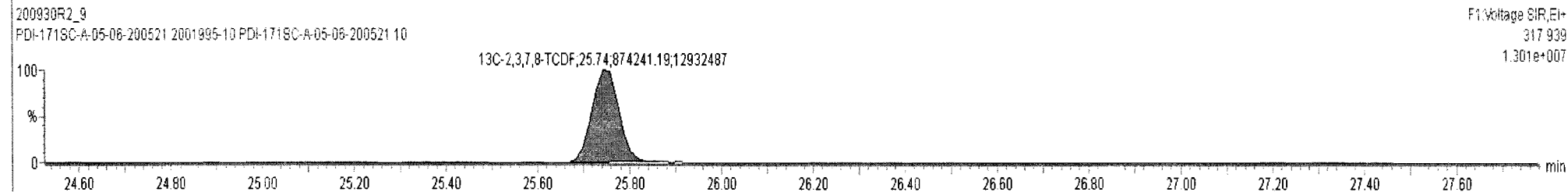
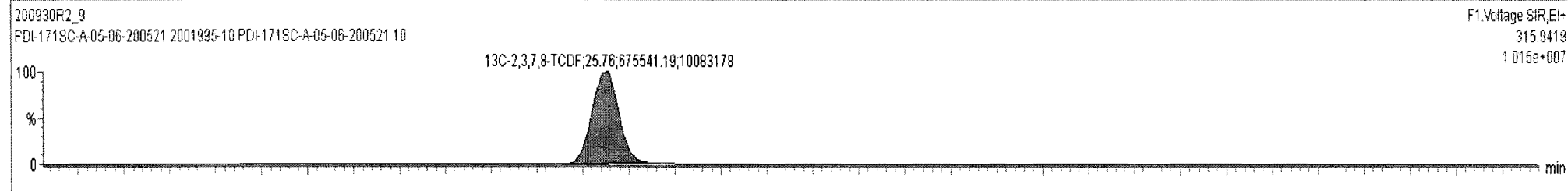
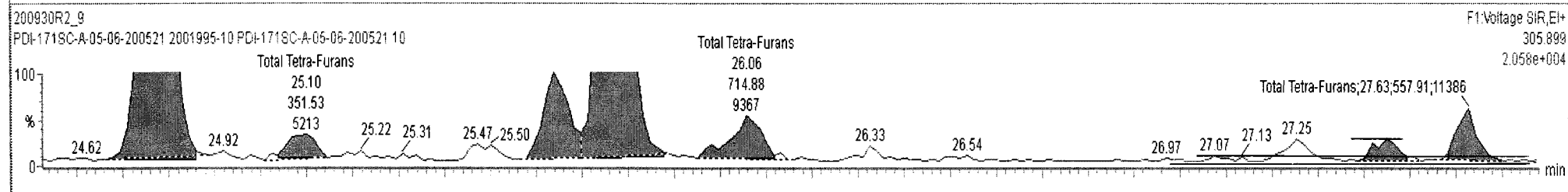
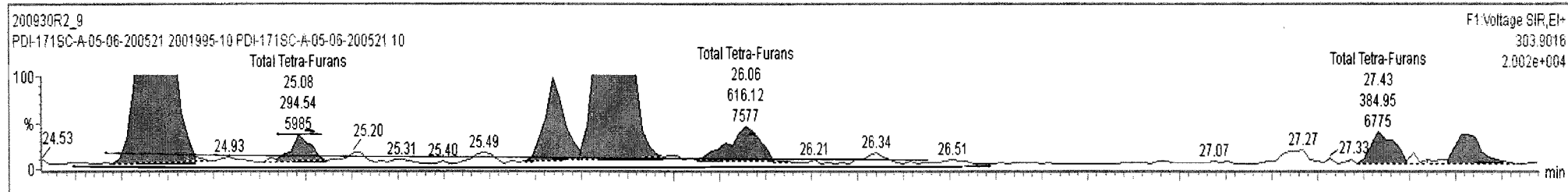
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.49	3.318e2	3.730e2	0.89	YES	0.11508	0.00000
2 Total Tetra-Furans	21.06	3.342e2	4.923e2	0.68	NO	0.14405	0.14405
3 Total Tetra-Furans	21.87	6.429e3	8.675e3	0.74	NO	2.6328	2.6328
4 Total Tetra-Furans	22.34	6.080e2	8.301e2	0.73	NO	0.25068	0.25068



200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.069			10.3		0.0486	10.7
44 1st Func. Penta-Furans				0.9386	10.069			2.26		0.0157	2.26
45 Total Penta-Furans				0.9386	10.069			10.5		0.0936	10.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.49	3.316e2	3.730e2	0.89	YES	0.11508	0.00000
2 Total Tetra-Furans	21.06	3.342e2	4.923e2	0.68	NO	0.14405	0.14405
3 Total Tetra-Furans	21.87	6.429e3	8.675e3	0.74	NO	2.6328	2.6328
4 Total Tetra-Furans	22.76	1.866e3	2.657e3	0.70	NO	0.78845	0.78845



Dataset: Untitled

Last Altered: Thursday, October 01, 2020 08:14:45 Pacific Daylight Time

Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

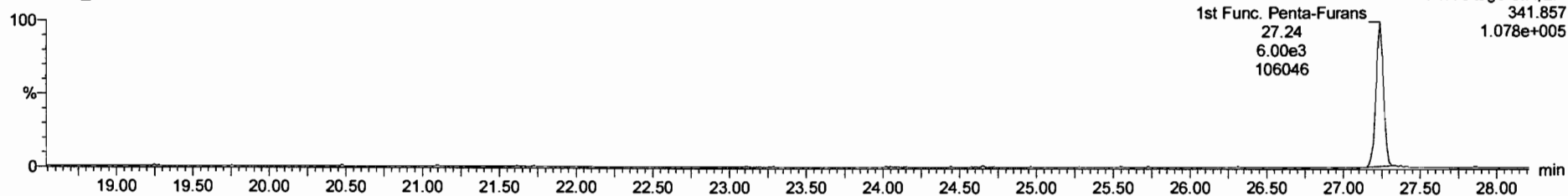
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1st Func. Penta-Furans

200930R2\_9

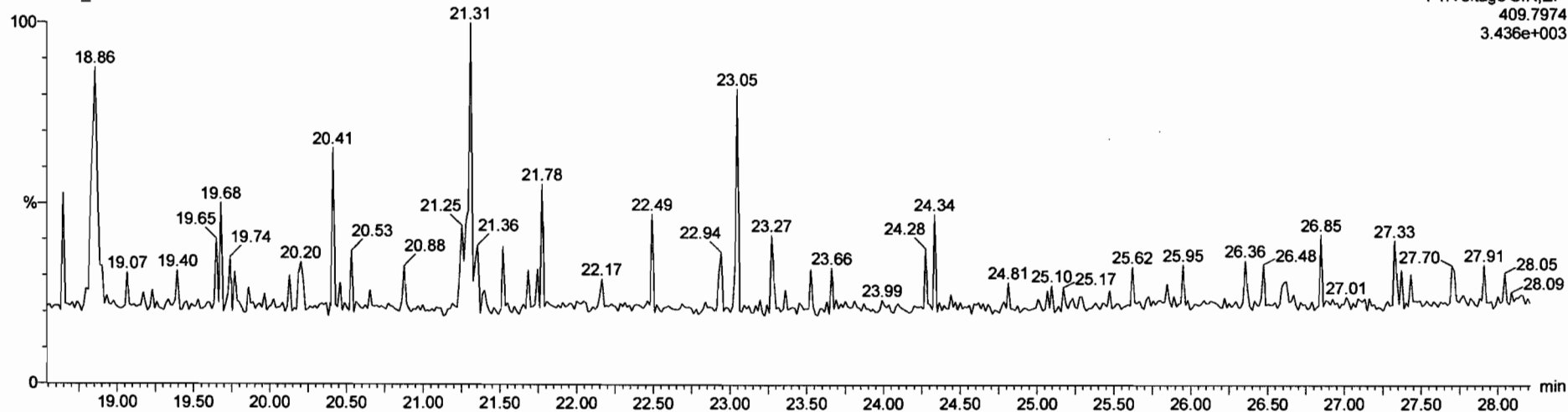


200930R2\_9



DPE6

200930R2\_9





Dataset: Untitled

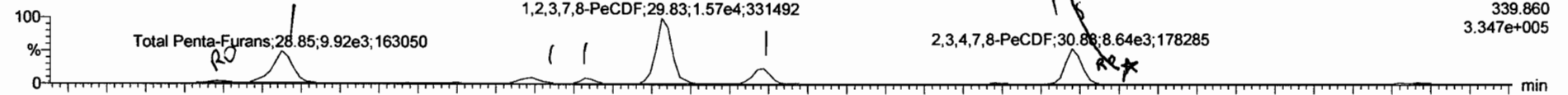
Last Altered: Thursday, October 01, 2020 08:14:45 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

\* Aug 10-22-2020

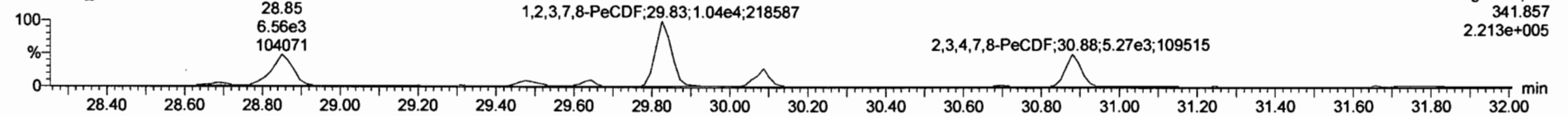
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1,2,3,7,8-PeCDF

200930R2\_9

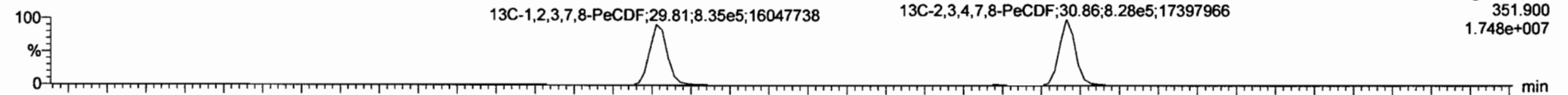


200930R2\_9

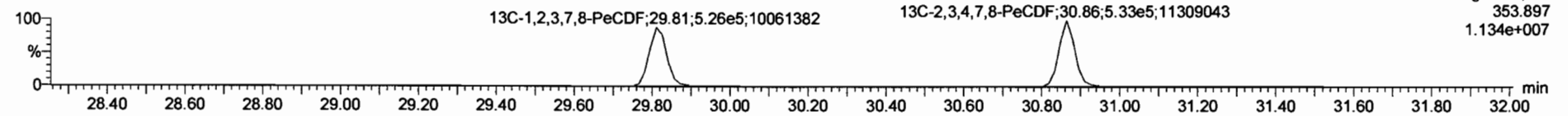


13C-1,2,3,7,8-PeCDF

200930R2\_9

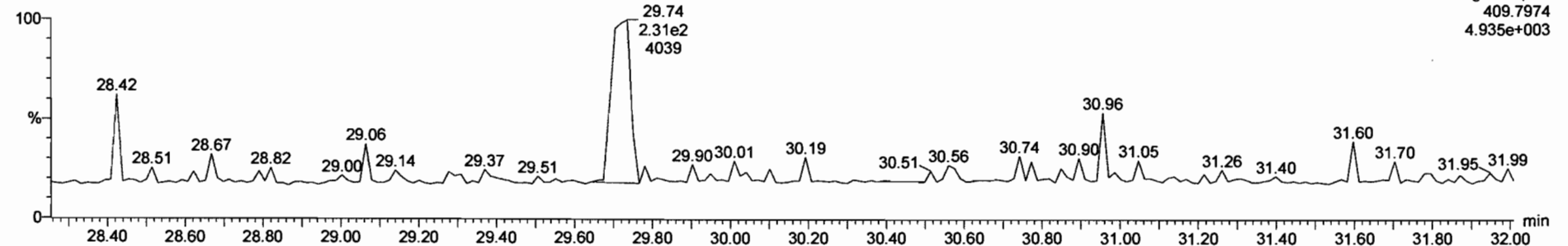


200930R2\_9



DPE2

200930R2\_9

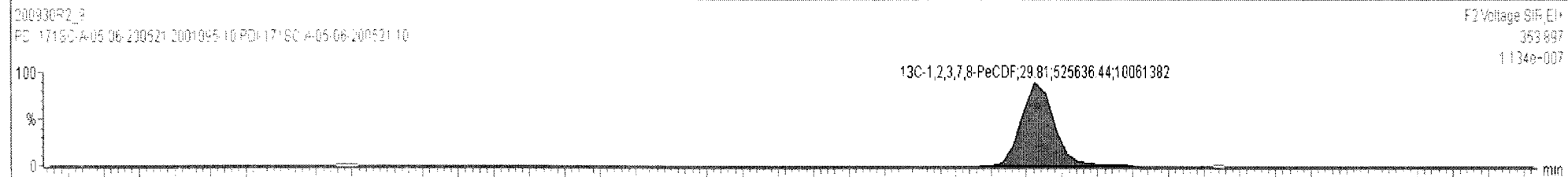
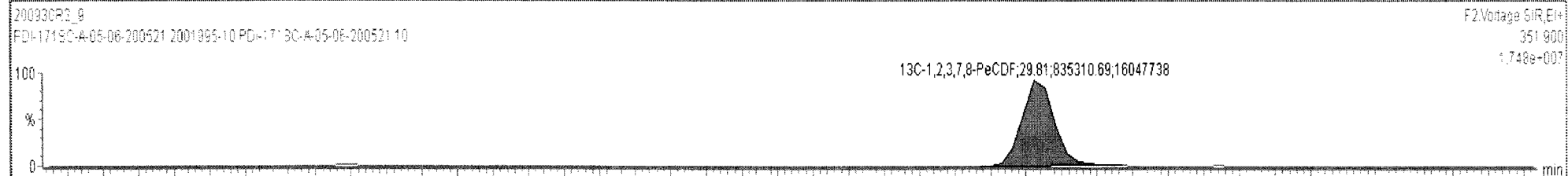
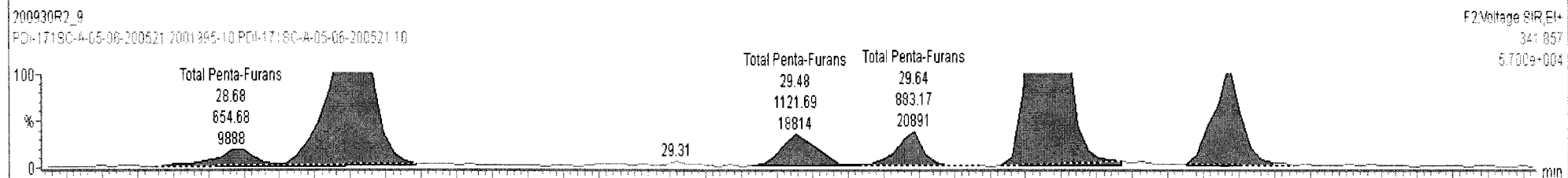
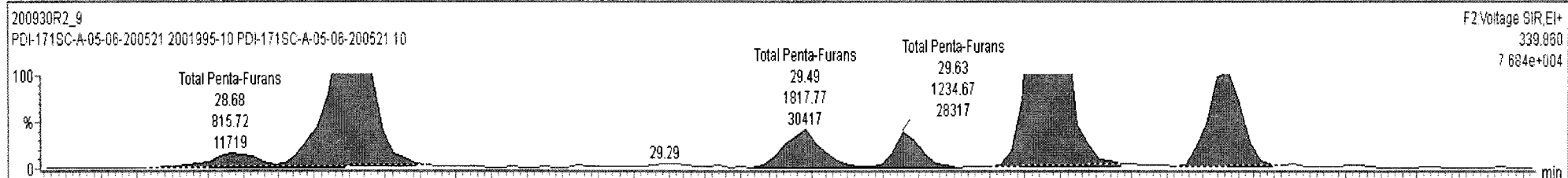




200930R2\_9 - 2001995-10 PDI-1715C-A-05-06-200521 10 - PDI-1715C-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.069			10.2		0.0466	10.5
44 1st Func. Penta-Furans				0.9386	10.069			2.26		0.0157	2.26
45 Total Penta-Furans				0.9386	10.069			10.5		0.0936	10.9

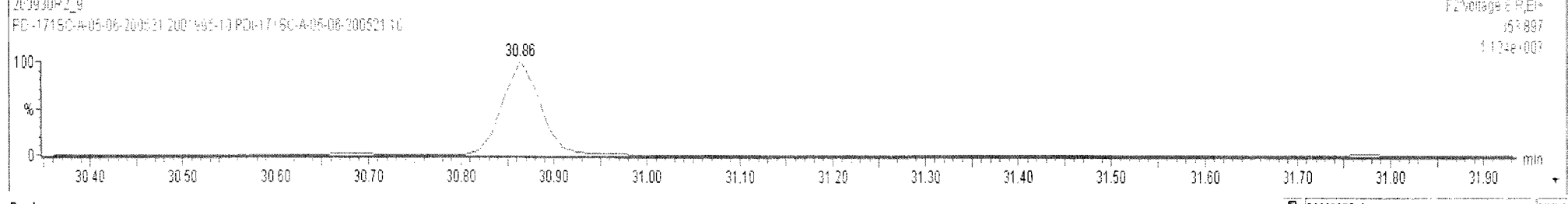
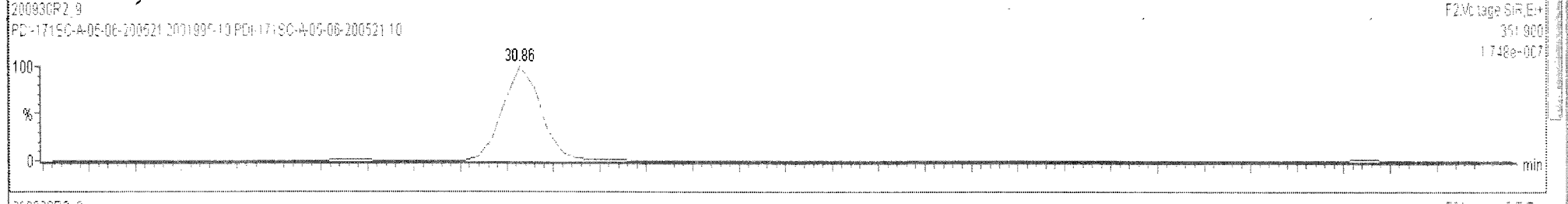
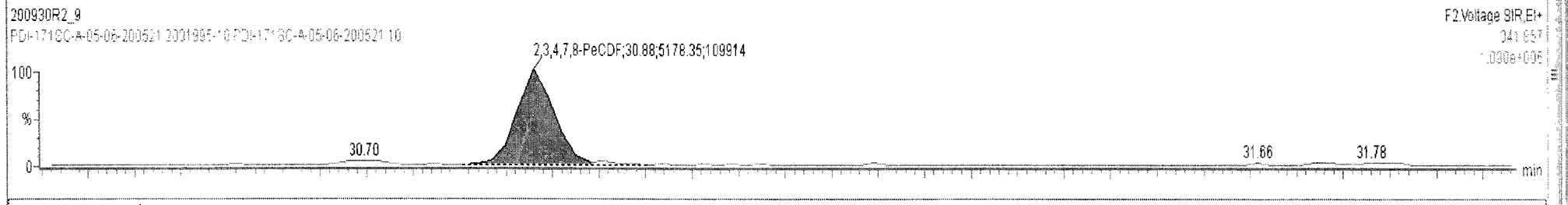
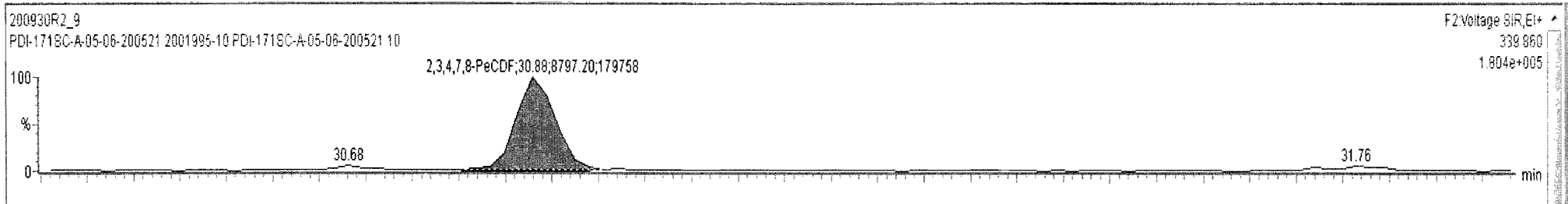
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.68	8.157e2	6.547e2	1.25	YES	0.20863	0.00000
2 Total Penta-Furans	28.85	1.014e4	6.746e3	1.50	NO	2.6245	2.6245
3 Total Penta-Furans	29.49	1.818e3	1.122e3	1.62	NO	0.45698	0.45698
4 Total Penta-Furans	29.63	1.235e3	8.832e2	1.40	NO	0.32924	0.32924



200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.069			10.5		0.0936	10.7
46 Total Hexa-Furans				0.8699	10.069			20.2		0.105	21.0
47 Total Hepta-Furans				0.8908	10.069			23.0		0.157	23.0

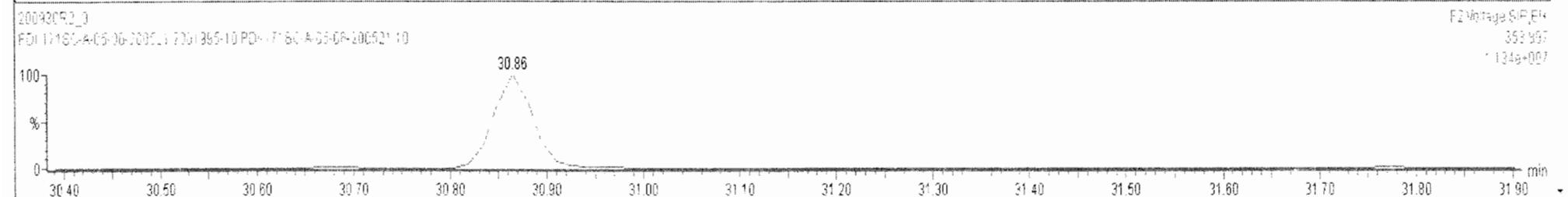
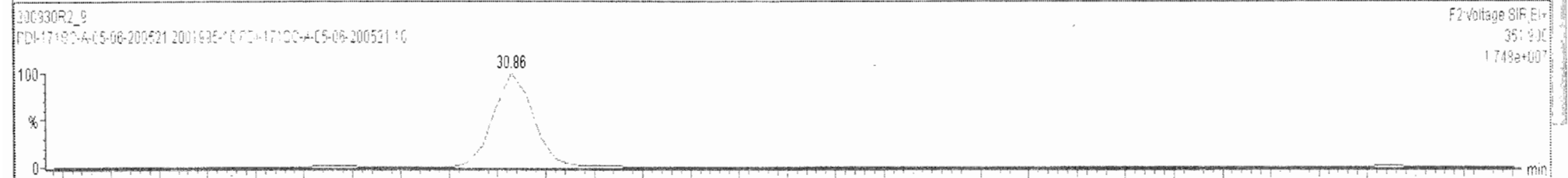
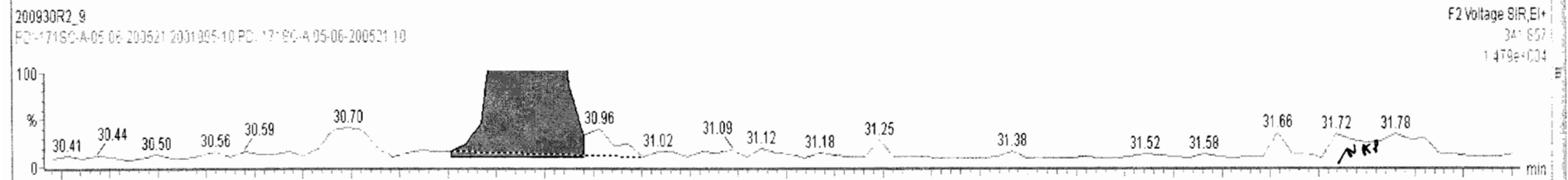
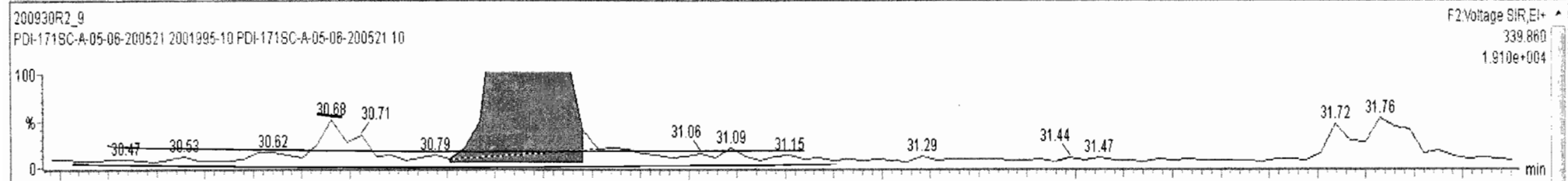
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.68	8.157e2	6.547e2	1.25	YES	0.20863	0.00000
2 Total Penta-Furans	28.85	1.014e4	6.746e3	1.50	NO	2.6245	2.6245
3 Total Penta-Furans	29.49	1.818e3	1.122e3	1.62	NO	0.45698	0.45698
4 Total Penta-Furans	30.62	1.726e2	8.922e1	1.40	NO	0.22034	0.22034



200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.069			10.5		0.0936	10.7
46 Total Hexa-Furans				0.8699	10.069			20.2		0.105	21.0
47 Total Hepta-Furans				0.8908	10.069			23.0		0.157	23.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.68	8.157e2	6.547e2	1.25	YES	0.20863	0.00000
2 Total Penta-Furans	28.85	1.014e4	6.746e3	1.50	NO	2.6245	2.6245
3 Total Penta-Furans	29.49	1.818e3	1.122e3	1.62	NO	0.45698	0.45698



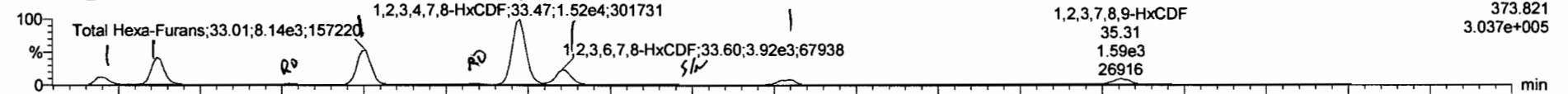
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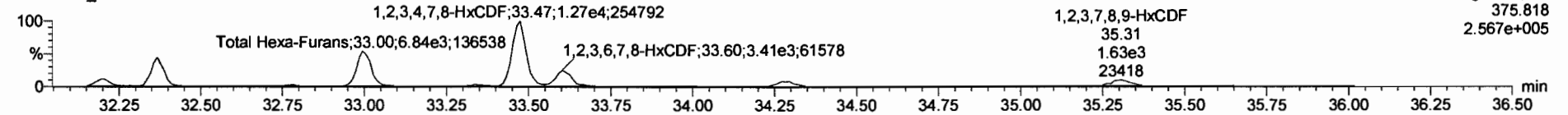
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**1,2,3,4,7,8-HxCDF**

200930R2\_9

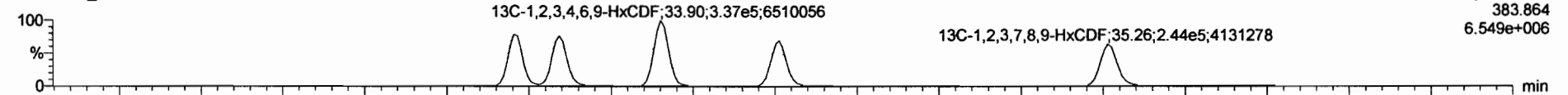


200930R2\_9

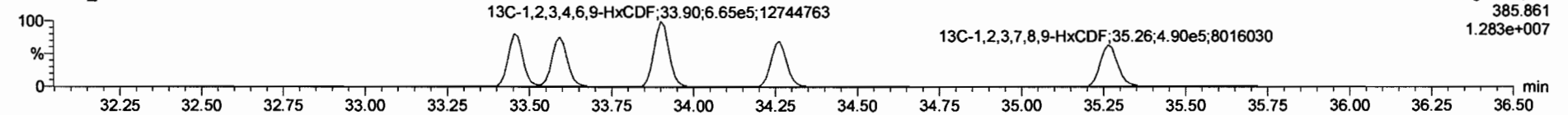


**13C-1,2,3,4,7,8-HxCDF**

200930R2\_9

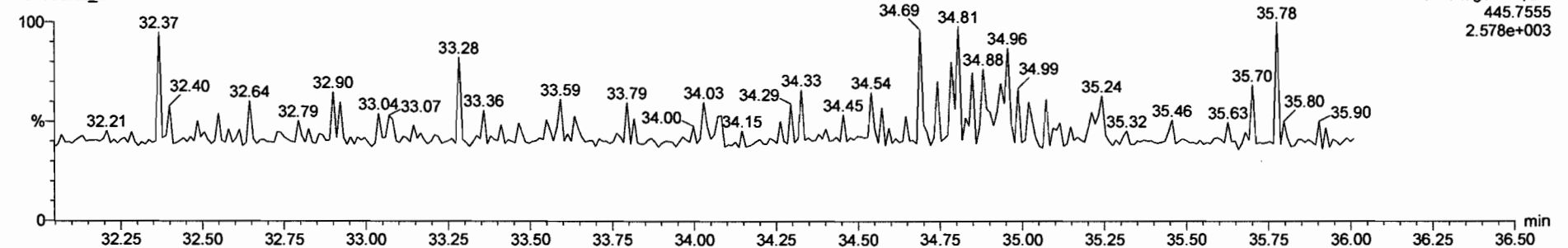


200930R2\_9



**DPE3**

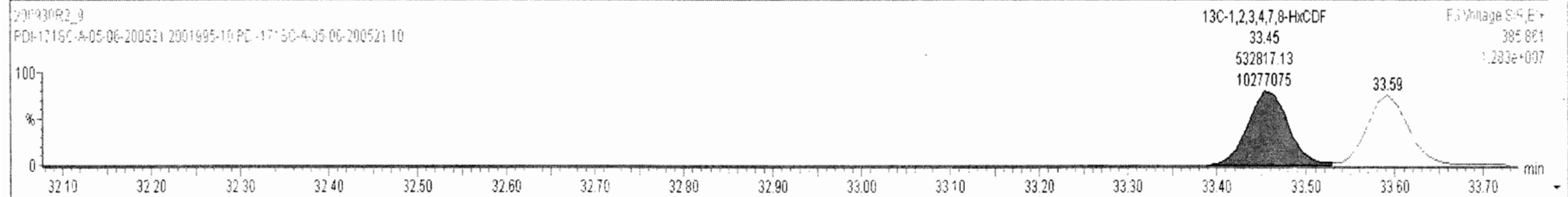
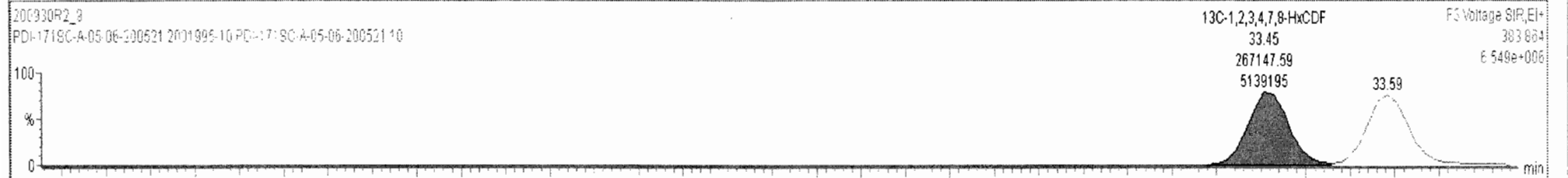
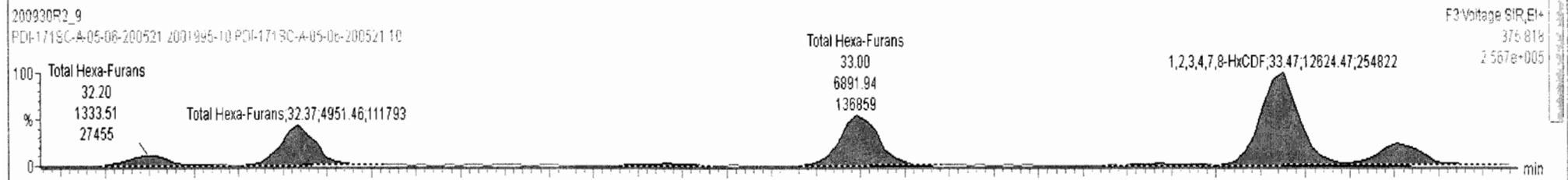
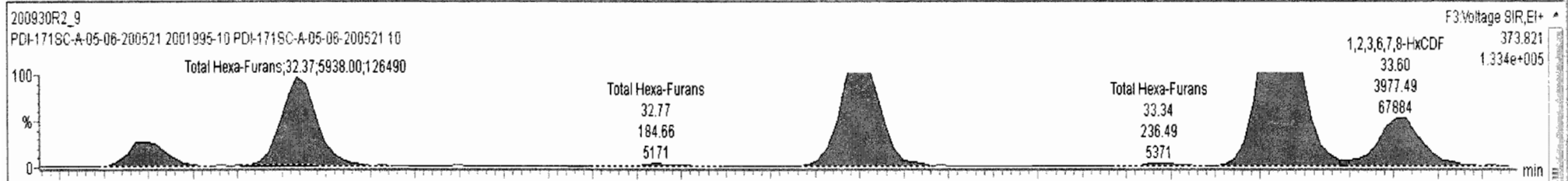
200930R2\_9



200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.069			10.3		0.0936	10.7
46 Total Hexa-Furans				0.8699	10.069			20.2		0.105	21.0
47 Total Henta-Furans				0.8908	10.069			23.1		0.157	23.1

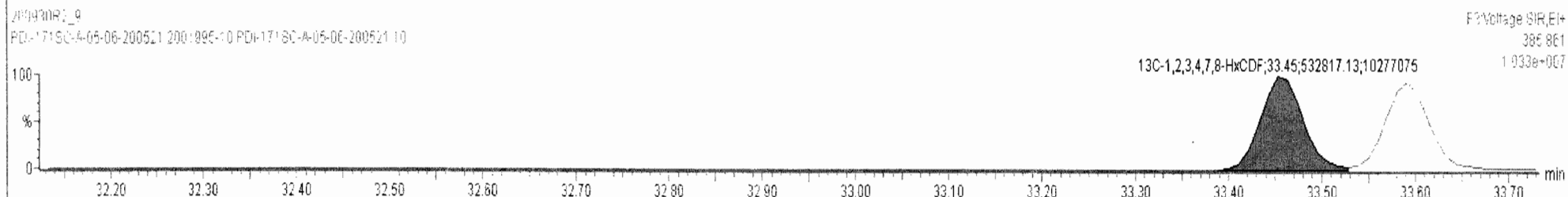
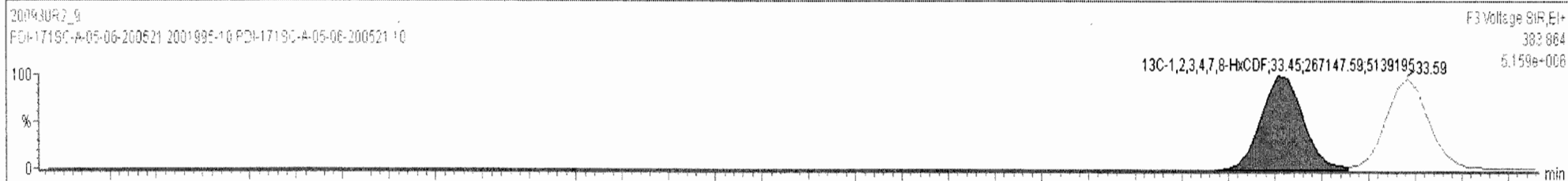
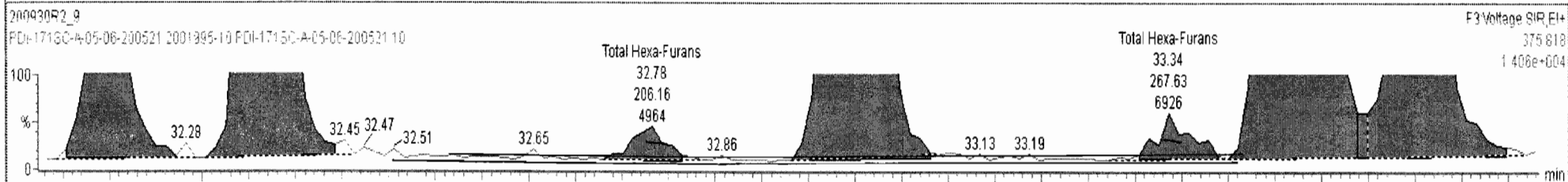
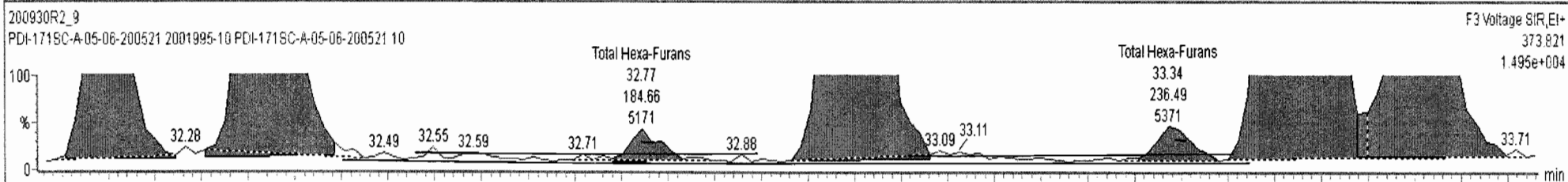
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	1.741e3	1.334e3	1.31	NO	0.92075	0.92075
2 Total Hexa-Furans	32.37	5.938e3	4.951e3	1.20	NO	3.2607	3.2607
3 Total Hexa-Furans	32.77	1.847e2	2.062e2	0.90	YES	0.099889	0.00000
4 Total Hexa-Furans	33.01	8.203e3	6.892e3	1.19	NO	4.5199	4.5199



200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.069			10.3		0.0936	10.7
46 Total Hexa-Furans				0.8699	10.069			20.2		0.105	21.8
47 Total Hepta-Furans				0.8908	10.069			23.1		0.157	23.1

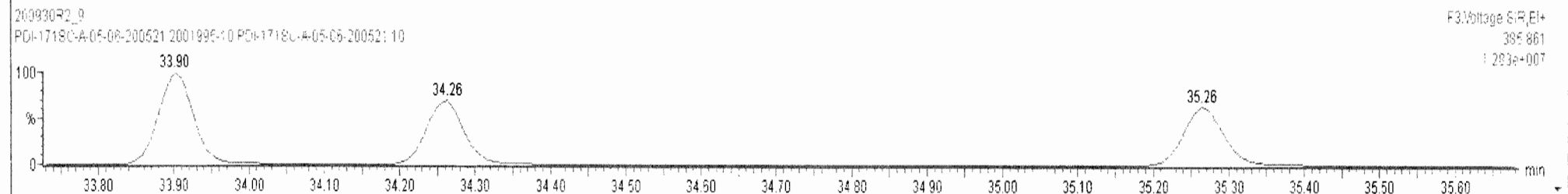
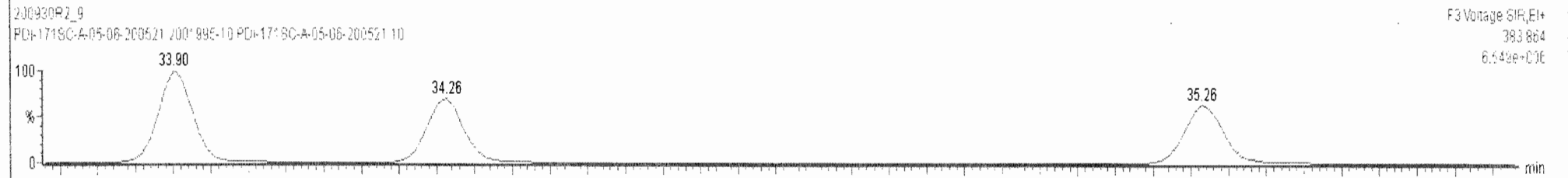
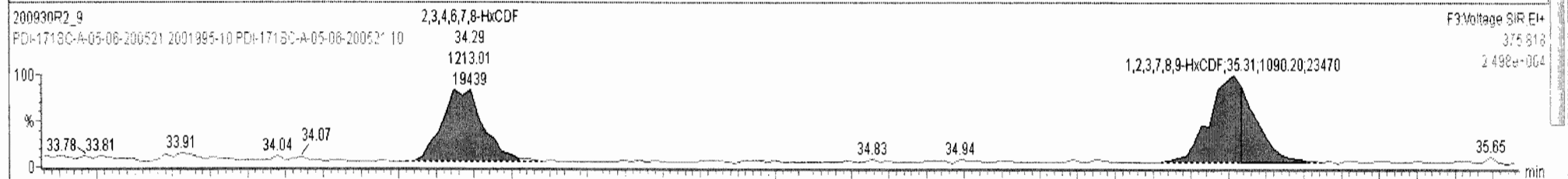
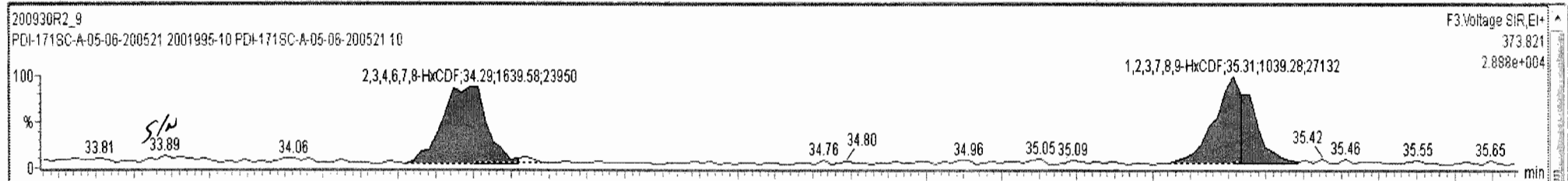
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	1.741e3	1.334e3	1.31	NO	0.92075	0.92075
2 Total Hexa-Furans	32.37	5.938e3	4.951e3	1.20	NO	3.2607	3.2607
3 Total Hexa-Furans	32.77	1.847e2	2.062e2	0.90	YES	0.099869	0.00000
4 Total Hexa-Furans	33.01	8.203e3	6.892e3	1.19	NO	4.5199	4.5199



200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9366	10.069			10.3		0.0936	10.7
46 Total Hexa-Furans				0.8699	10.069			20.2		0.105	21.1
47 Total Hepta-Furans				0.8908	10.069			23.1		0.157	23.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
7 1,2,3,6,7,8-HxCDF	33.60	3.920e3	3.412e3	1.15	NO	2.0942	2.0942
8 2,3,4,6,7,8-HxCDF	34.29	1.640e3	1.213e3	1.35	NO	0.88192	0.88192
9 1,2,3,7,8,9-HxCDF	35.31	1.039e3	1.090e3	0.95	YES	0.59445	0.00000
10 Total Hexa-Furans	35.32	5.900e2	5.409e2	1.09	NO	0.33866	0.33866



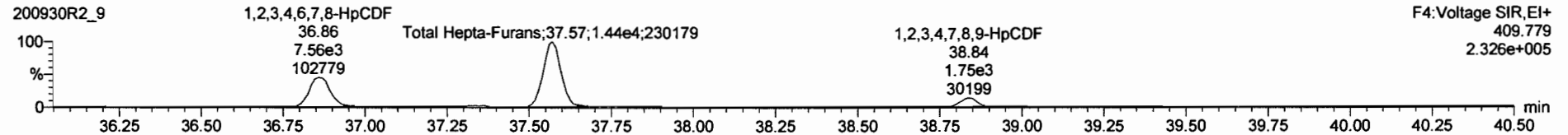
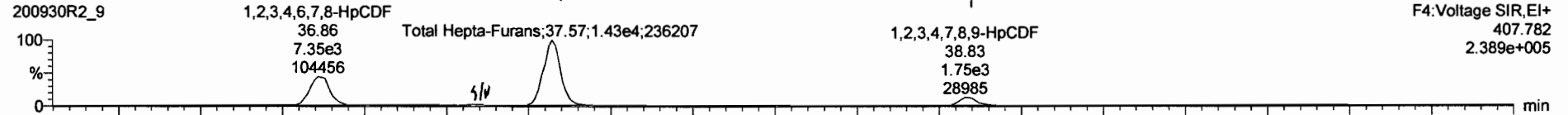


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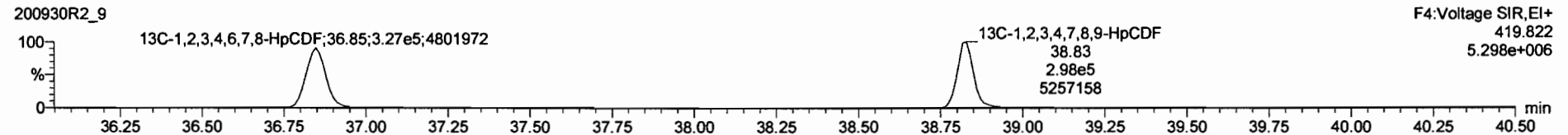
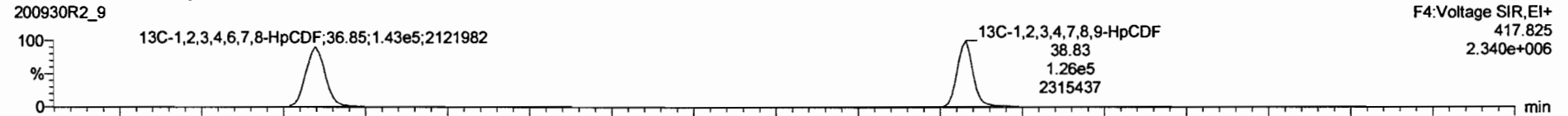
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Name: 200930R2\_9, Date: 01-Oct-2020, Time: 03:48:30, ID: 2001995-10 PDI-171SC-A-05-06-200521 10, Description: PDI-171SC-A-05-06-200521

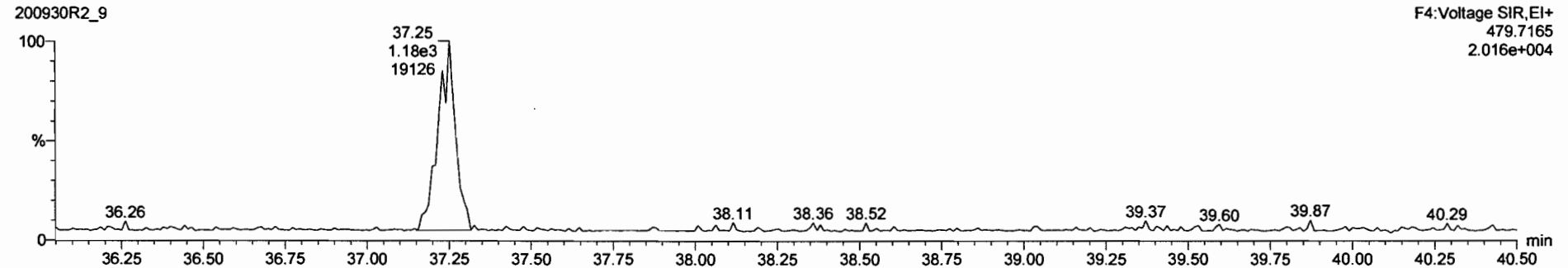
**1,2,3,4,6,7,8-HpCDF**



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



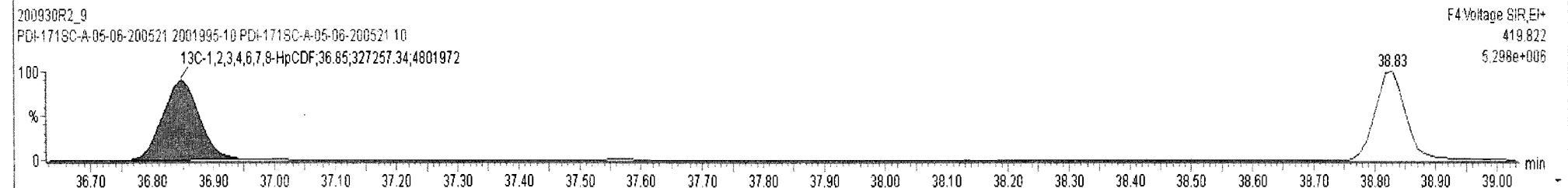
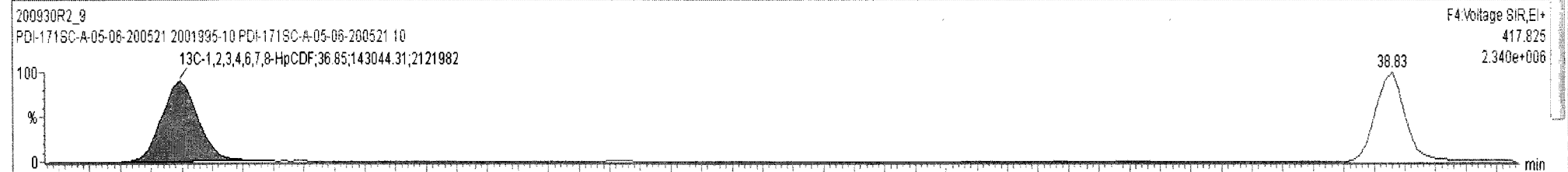
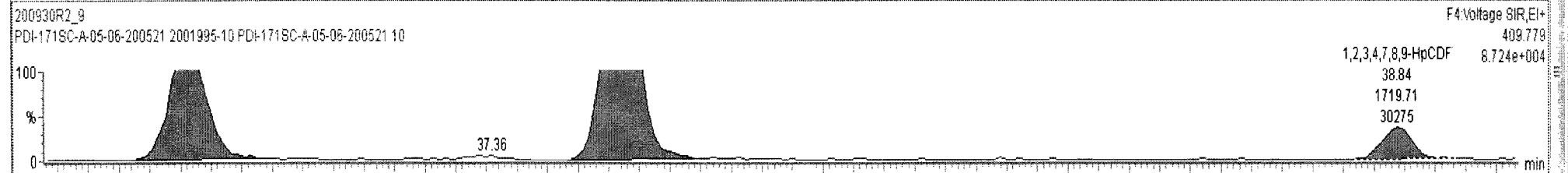
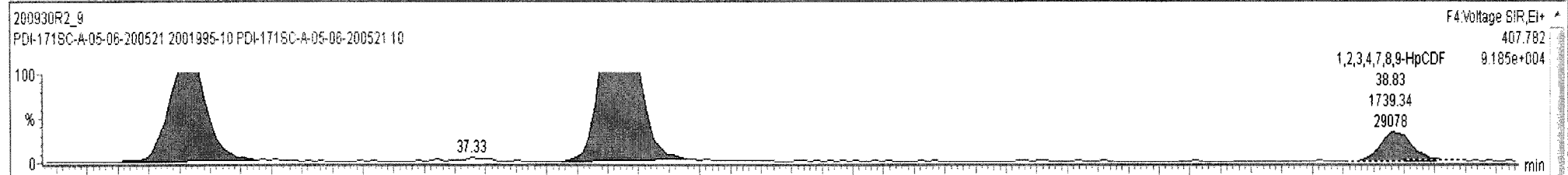
**DPE4**



200930R2\_9 - 2001995-10 PDI-171SC-A-05-06-200521 10 - PDI-171SC-A-05-06-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec.	DL	EMPC
45 Total Penta-Furans				0.9366	10.069			10.3		0.0936	10.7
46 Total Hexa-Furans				0.8699	10.069			20.2		0.105	21.0
47 Total Hepta-Furans				0.8908	10.069			23.0		0.157	23.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.86	7.348e3	7.556e3	0.97	NO	7.0667	7.0667
2 Total Hepta-Furans	37.57	1.435e4	1.441e4	1.00	NO	14.357	14.357
3 1,2,3,4,7,8,9-HpCDF	38.83	1.739e3	1.720e3	1.01	NO	1.6241	1.6241



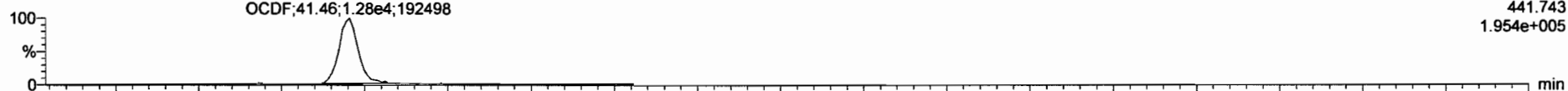
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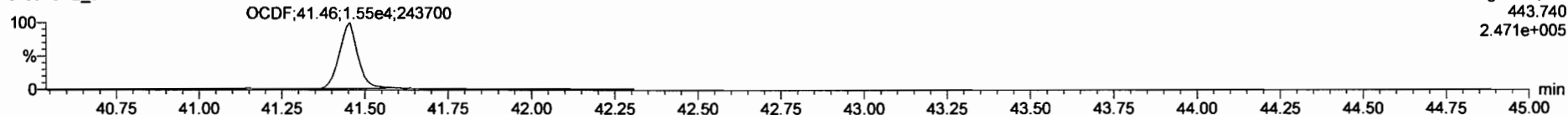
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**OCDF**

200930R2\_9

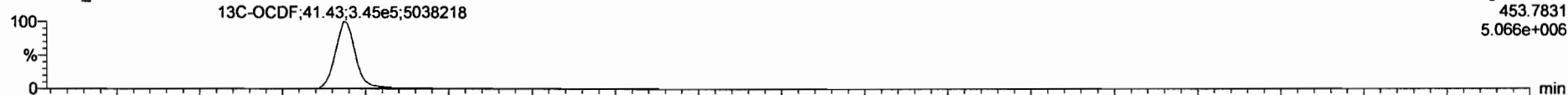


200930R2\_9

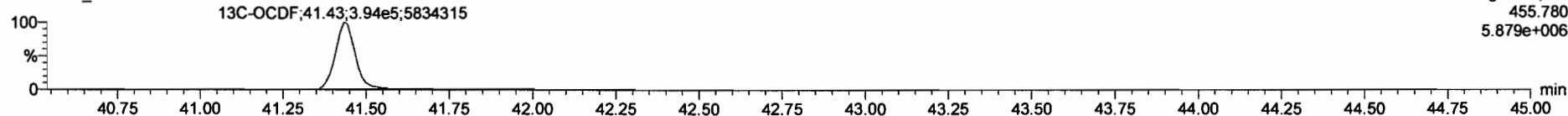


**13C-OCDF**

200930R2\_9

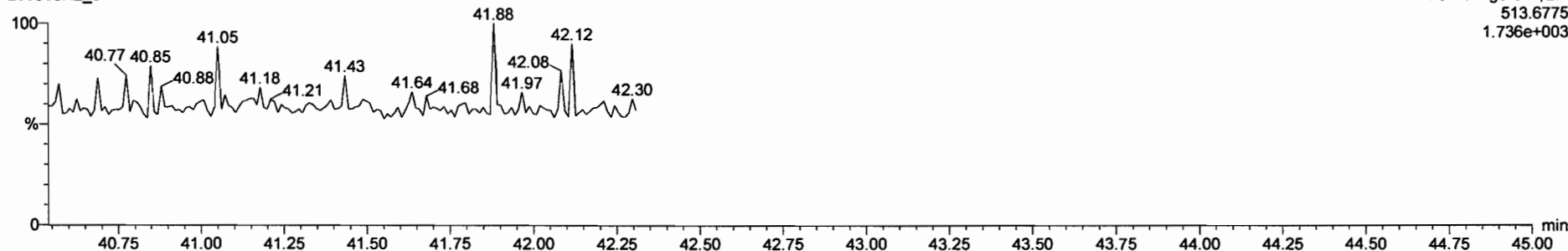


200930R2\_9



**DPE5**

200930R2\_9

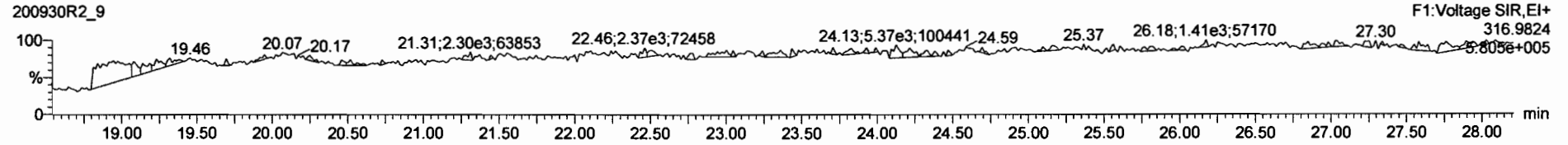


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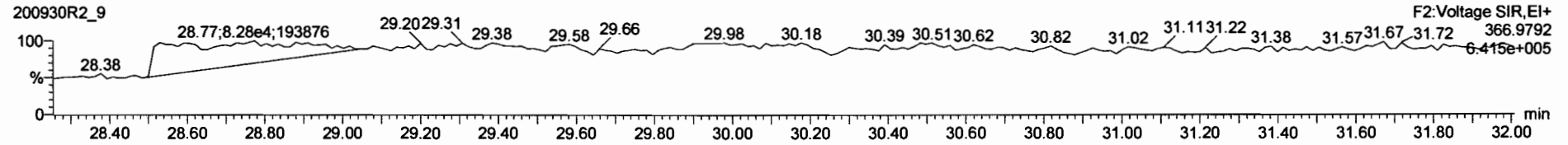
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Name: 200930R2\_9, Date: 01-Oct-2020, Time: 03:48:30, ID: 2001995-10 PDI-171SC-A-05-06-200521 10, Description: PDI-171SC-A-05-06-200521

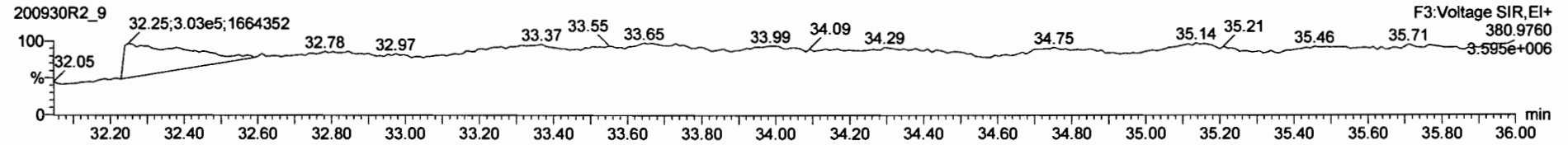
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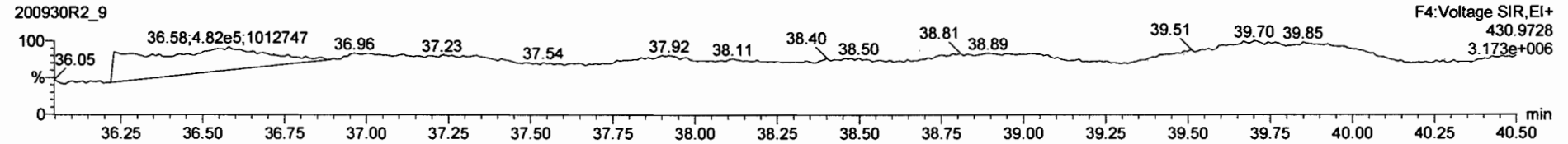
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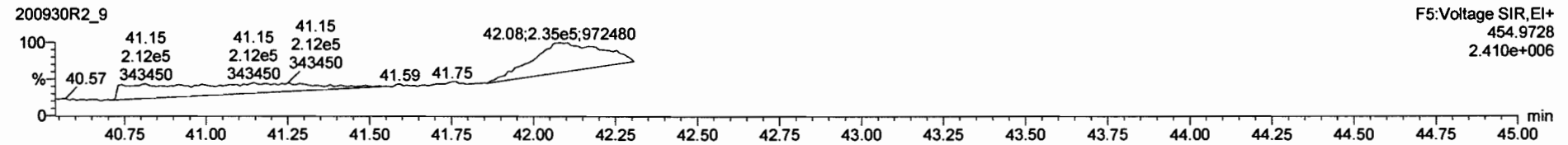
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200930R2\200930R2-10.qld

Last Altered: Thursday, October 22, 2020 13:16:36 Pacific Daylight Time  
Printed: Thursday, October 22, 2020 13:20:38 Pacific Daylight Time

*by 10-22-2020*

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
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*mm  
10/22/20*

Name: 200930R2\_10, Date: 01-Oct-2020, Time: 04:32:09, ID: 2001995-11 PDI-171SC-A-06-07-200521 10, Description: PDI-171SC-A-06-07-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.32e3	0.50	YES	1.02	10.047	26.463	26.45	1.001	1.001	0.43678		0.0478	0.336
2	2 1,2,3,7,8-PeCDD	1.97e3	0.58	NO	0.956	10.047	31.085	31.08	1.001	1.000	0.45231		0.0657	0.452
3	3 1,2,3,4,7,8-HxCDD	2.48e3	1.37	NO	1.00	10.047	34.380	34.38	1.000	1.000	0.65163		0.177	0.652
4	4 1,2,3,6,7,8-HxCDD	1.24e4	1.23	NO	0.888	10.047	34.487	34.51	1.000	1.001	3.1839		0.186	3.18
5	5 1,2,3,7,8,9-HxCDD	5.73e3	1.26	NO	0.909	10.047	34.774	34.78	1.000	1.000	1.4700		0.189	1.47
6	6 1,2,3,4,6,7,8-HpCDD	3.67e5	1.01	NO	0.832	10.047	38.222	38.23	1.000	1.001	144.41		0.770	144
7	7 OCDD	2.86e6	0.87	NO	0.862	10.047	41.168	41.18	1.000	1.000	1439.8		1.04	1440
8	8 2,3,7,8-TCDF	1.94e4	0.75	NO	0.735	10.047	25.770	25.77	1.000	1.001	4.1865		0.0656	4.19
9	9 1,2,3,7,8-PeCDF	1.58e4	1.67	NO	0.939	10.047	29.848	29.84	1.001	1.001	2.7316		0.0756	2.73
10	10 2,3,4,7,8-PeCDF	1.39e4	1.51	NO	1.05	10.047	30.896	30.90	1.001	1.001	2.2046		0.0634	2.20
11	11 1,2,3,4,7,8-HxCDF	1.48e4	1.20	NO	0.842	10.047	33.454	33.47	1.000	1.001	4.1842		0.0925	4.18
12	12 1,2,3,6,7,8-HxCDF	5.51e3	1.20	NO	0.894	10.047	33.602	33.60	1.000	1.000	1.4693		0.0904	1.47
13	13 2,3,4,6,7,8-HxCDF	3.31e3	1.31	NO	0.870	10.047	34.274	34.28	1.001	1.001	0.86972		0.0914	0.870
14	14 1,2,3,7,8,9-HxCDF	2.07e3	1.21	NO	0.855	10.047	35.285	35.31	1.001	1.001	0.63435		0.114	0.634
15	15 1,2,3,4,6,7,8-HpCDF	3.50e4	1.00	NO	0.891	10.047	36.885	36.87	1.001	1.001	12.803		0.231	12.8
16	16 1,2,3,4,7,8,9-HpCDF	3.83e3	1.02	NO	1.00	10.047	38.829	38.85	1.000	1.001	1.5701		0.219	1.57
17	17 OCDF	9.68e4	0.85	NO	0.784	10.047	41.456	41.48	1.000	1.001	51.951		0.374	52.0
18	18 13C-2,3,7,8-TCDD	1.04e6	0.77	NO	1.15	10.047	26.420	26.43	1.029	1.029	151.92	76.3	0.162	
19	19 13C-1,2,3,7,8-PeCDD	9.09e5	0.63	NO	0.887	10.047	31.012	31.06	1.207	1.209	172.13	86.5	0.171	
20	20 13C-1,2,3,4,7,8-HxCDD	7.55e5	1.28	NO	0.801	10.047	34.372	34.37	1.014	1.014	172.99	86.9	0.261	
21	21 13C-1,2,3,6,7,8-HxCDD	8.70e5	1.27	NO	0.892	10.047	34.501	34.49	1.018	1.017	179.01	89.9	0.234	
22	22 13C-1,2,3,7,8,9-HxCDD	8.53e5	1.24	NO	0.882	10.047	34.762	34.76	1.025	1.025	177.39	89.1	0.237	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.09e5	1.05	NO	0.719	10.047	38.196	38.21	1.127	1.127	155.45	78.1	0.435	
24	24 13C-OCDD	9.18e5	0.89	NO	0.563	10.047	41.125	41.17	1.213	1.214	299.41	75.2	0.387	
25	25 13C-2,3,7,8-TCDF	1.26e6	0.77	NO	1.01	10.047	25.763	25.76	1.003	1.003	144.78	72.7	0.204	
26	26 13C-1,2,3,7,8-PeCDF	1.23e6	1.59	NO	0.814	10.047	29.772	29.83	1.159	1.161	175.29	88.1	0.395	
27	27 13C-2,3,4,7,8-PeCDF	1.20e6	1.59	NO	0.768	10.047	30.809	30.86	1.200	1.202	181.66	91.3	0.419	
28	28 13C-1,2,3,4,7,8-HxCDF	8.38e5	0.50	NO	0.993	10.047	33.450	33.45	0.987	0.987	155.03	77.9	0.341	
29	29 13C-1,2,3,6,7,8-HxCDF	8.35e5	0.51	NO	0.990	10.047	33.593	33.59	0.991	0.991	154.86	77.8	0.341	
30	30 13C-2,3,4,6,7,8-HxCDF	8.70e5	0.50	NO	0.944	10.047	34.260	34.25	1.011	1.010	169.17	85.0	0.358	

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-10.qld

Last Altered: Thursday, October 22, 2020 13:16:36 Pacific Daylight Time

Printed: Thursday, October 22, 2020 13:20:38 Pacific Daylight Time

Name: 200930R2\_10, Date: 01-Oct-2020, Time: 04:32:09, ID: 2001995-11 PDI-171SC-A-06-07-200521 10, Description: PDI-171SC-A-06-07-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	7.61e5	0.50	NO	0.842	10.047	35.277	35.26	1.041	1.040	165.90	83.3	0.402	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.10e5	0.43	NO	0.687	10.047	36.867	36.85	1.087	1.087	163.16	82.0	0.405	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.85e5	0.44	NO	0.555	10.047	38.817	38.83	1.145	1.145	160.55	80.7	0.501	
34	34 13C-OCDF	9.46e5	0.88	NO	0.608	10.047	41.407	41.46	1.221	1.223	285.55	71.7	0.395	
35	35 37Cl-2,3,7,8-TCDD	3.63e5			1.18	10.047	26.451	26.45	1.030	1.030	51.821	65.1	0.0290	
36	36 13C-1,2,3,4-TCDD	1.18e6	0.78	NO	1.00	10.047	25.740	25.68	1.000	1.000	199.06	100	0.186	
37	37 13C-1,2,3,4-TCDF	1.71e6	0.78	NO	1.00	10.047	24.310	24.23	1.000	1.000	199.06	100	0.206	
38	38 13C-1,2,3,4,6,9-HxCDF	1.08e6	0.50	NO	1.00	10.047	33.920	33.90	1.000	1.000	199.06	100	0.338	
39	39 Total Tetra-Dioxins				1.02	10.047	24.620		0.000		6.5657		0.0478	6.90
40	40 Total Penta-Dioxins				0.956	10.047	29.960		0.000		4.3727		0.0657	5.61
41	41 Total Hexa-Dioxins				0.888	10.047	33.635		0.000		45.901		0.193	45.9
42	42 Total Hepta-Dioxins				0.832	10.047	37.640		0.000		632.52		0.770	633
43	43 Total Tetra-Furans				0.735	10.047	23.610		0.000		19.540		0.0656	20.6
44	44 1st Func. Penta-Furans				0.939	10.047	27.230		0.000		4.9308		0.0204	4.93
45	45 Total Penta-Furans				0.939	10.047	29.275		0.000		11.269		0.0733	11.7
46	46 Total Hexa-Furans				0.870	10.047	33.555		0.000		22.005		0.0961	22.0
47	47 Total Hepta-Furans				0.891	10.047	37.835		0.000		48.499		0.238	48.5

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-10.qld

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Printed: Thursday, October 22, 2020 13:20:38 Pacific Daylight Time

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Name: 200930R2\_10, Date: 01-Oct-2020, Time: 04:32:09, ID: 2001995-11 PDI-171SC-A-06-07-200521 10, Description: PDI-171SC-A-06-07-200521

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.75	9.988e4	1.223e5	8.773e3	1.115e4	0.79	NO	1.992e4	3.7456	3.7456	0.0478
2	Total Tetra-Dioxins	23.09	1.982e4	2.222e4	1.353e3	1.599e3	0.85	NO	2.952e3	0.55512	0.55512	0.0478
3	Total Tetra-Dioxins	23.60	6.240e3	1.124e4	4.693e2	6.445e2	0.73	NO	1.114e3	0.20944	0.20944	0.0478
4	Total Tetra-Dioxins	24.41	1.702e4	2.243e4	1.185e3	1.589e3	0.75	NO	2.775e3	0.52179	0.52179	0.0478
5	Total Tetra-Dioxins	24.62	6.615e3	1.043e4	5.334e2	7.544e2	0.71	NO	1.288e3	0.24217	0.24217	0.0478
6	Total Tetra-Dioxins	24.84	1.074e4	1.137e4	5.843e2	7.738e2	0.76	NO	1.358e3	0.25538	0.25538	0.0478
7	Total Tetra-Dioxins	25.41	5.493e3	8.850e3	3.635e2	5.332e2	0.68	NO	8.967e2	0.16863	0.16863	0.0478
8	Total Tetra-Dioxins	25.80	6.606e3	9.667e3	2.332e2	2.796e2	0.83	NO	5.128e2	0.096429	0.096429	0.0478
9	Total Tetra-Dioxins	26.18	1.735e4	2.975e4	1.169e3	1.716e3	0.68	NO	2.884e3	0.54238	0.54238	0.0478
10	2,3,7,8-TCDD	26.45	1.297e4	2.206e4	7.781e2	1.545e3	0.50	YES	2.323e3	0.00000	0.33635	0.0478
11	Total Tetra-Dioxins	26.77	5.057e3	5.980e3	2.979e2	3.532e2	0.84	NO	6.511e2	0.12244	0.12244	0.0478
12	Total Tetra-Dioxins	27.31	4.343e3	5.502e3	2.322e2	3.333e2	0.70	NO	5.655e2	0.10633	0.10633	0.0478

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.83	3.492e4	4.853e4	2.681e3	4.094e3	0.65	NO	6.775e3	1.5525	1.5525	0.0657
2	Total Penta-Dioxins	29.32	1.686e4	3.424e4	9.386e2	1.716e3	0.55	NO	2.654e3	0.60821	0.60821	0.0657
3	Total Penta-Dioxins	29.84	2.366e4	2.416e4	7.351e2	8.930e2	0.82	YES	0.000e0	0.00000	0.33355	0.0657
4	Total Penta-Dioxins	30.06	1.544e4	2.747e4	1.449e3	2.294e3	0.63	NO	3.743e3	0.85764	0.85764	0.0657
5	Total Penta-Dioxins	30.28	2.292e4	3.632e4	1.528e3	2.408e3	0.63	NO	3.936e3	0.90203	0.90203	0.0657
6	Total Penta-Dioxins	30.60	2.802e4	2.610e4	1.221e3	1.552e3	0.79	YES	0.000e0	0.00000	0.57972	0.0657
7	1,2,3,7,8-PeCDD	31.08	1.389e4	2.809e4	7.263e2	1.248e3	0.58	NO	1.974e3	0.45231	0.45231	0.0657
8	Total Penta-Dioxins	31.17	6.725e3	1.028e4	3.556e2	4.405e2	0.81	YES	0.000e0	0.00000	0.16453	0.0657
9	Total Penta-Dioxins	31.44	5.648e3	8.448e3	3.365e2	4.271e2	0.79	YES	0.000e0	0.00000	0.15953	0.0657

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-10.qld

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Name: 200930R2\_10, Date: 01-Oct-2020, Time: 04:32:09, ID: 2001995-11 PDI-171SC-A-06-07-200521 10, Description: PDI-171SC-A-06-07-200521

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.73	7.778e5	6.346e5	3.798e4	3.108e4	1.22	NO	6.906e4	18.743	18.743	0.193
2	Total Hexa-Dioxins	33.34	1.214e5	9.397e4	6.461e3	5.222e3	1.24	NO	1.168e4	3.1710	3.1710	0.193
3	Total Hexa-Dioxins	33.62	4.055e5	3.125e5	2.829e4	2.261e4	1.25	NO	5.090e4	13.814	13.814	0.193
4	Total Hexa-Dioxins	33.73	1.395e5	1.081e5	7.609e3	6.395e3	1.19	NO	1.400e4	3.8011	3.8011	0.193
5	1,2,3,4,7,8-HxCDD	34.38	2.500e4	1.747e4	1.433e3	1.043e3	1.37	NO	2.477e3	0.65163	0.65163	0.177
6	1,2,3,6,7,8-HxCDD	34.51	1.082e5	9.460e4	6.808e3	5.547e3	1.23	NO	1.235e4	3.1839	3.1839	0.186
7	Total Hexa-Dioxins	34.66	3.626e4	3.106e4	2.238e3	1.690e3	1.32	NO	3.928e3	1.0660	1.0660	0.193
8	1,2,3,7,8,9-HxCDD	34.78	5.411e4	3.969e4	3.194e3	2.532e3	1.26	NO	5.727e3	1.4700	1.4700	0.189

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.25	8.643e6	8.535e6	6.256e5	6.161e5	1.02	NO	1.242e6	488.11	488.11	0.770
2	1,2,3,4,6,7,8-HpCDD	38.23	3.240e6	3.154e6	1.845e5	1.829e5	1.01	NO	3.674e5	144.41	144.41	0.770



Dataset: U:\VG12.PRO\Results\200930R2\200930R2-10.qld

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Name: 200930R2\_10, Date: 01-Oct-2020, Time: 04:32:09, ID: 2001995-11 PDI-171SC-A-06-07-200521 10, Description: PDI-171SC-A-06-07-200521

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.49	7.882e3	8.544e3	5.750e2	6.958e2	0.83	NO	1.271e3	0.27391	0.27391	0.0656
2	Total Tetra-Furans	21.07	8.571e3	1.064e4	7.324e2	8.693e2	0.84	NO	1.602e3	0.34524	0.34524	0.0656
3	Total Tetra-Furans	21.88	6.961e4	9.448e4	6.581e3	8.899e3	0.74	NO	1.548e4	3.3367	3.3367	0.0656
4	Total Tetra-Furans	22.36	8.181e3	9.073e3	6.890e2	9.355e2	0.74	NO	1.624e3	0.35014	0.35014	0.0656
5	Total Tetra-Furans	22.79	3.464e4	4.652e4	3.157e3	4.355e3	0.72	NO	7.513e3	1.6193	1.6193	0.0656
6	Total Tetra-Furans	23.24	2.008e4	2.841e4	1.686e3	2.163e3	0.78	NO	3.849e3	0.82964	0.82964	0.0656
7	Total Tetra-Furans	23.36	4.726e3	9.143e3	3.617e2	7.062e2	0.51	YES	0.000e0	0.00000	0.17923	0.0656
8	Total Tetra-Furans	23.59	1.033e4	1.952e4	7.753e2	1.290e3	0.60	YES	0.000e0	0.00000	0.38414	0.0656
9	Total Tetra-Furans	23.98	4.427e3	2.953e3	2.320e2	2.197e2	1.06	YES	0.000e0	0.00000	0.083811	0.0656
10	Total Tetra-Furans	24.10	5.370e3	6.574e3	3.803e2	4.718e2	0.81	NO	8.522e2	0.18368	0.18368	0.0656
11	Total Tetra-Furans	24.26	1.345e4	1.905e4	4.279e2	5.991e2	0.71	NO	1.027e3	0.22136	0.22136	0.0656
12	Total Tetra-Furans	24.32	3.578e4	4.895e4	4.284e3	5.838e3	0.73	NO	1.012e4	2.1819	2.1819	0.0656
13	Total Tetra-Furans	24.78	9.928e4	1.347e5	7.121e3	9.517e3	0.75	NO	1.664e4	3.5861	3.5861	0.0656
14	Total Tetra-Furans	25.10	7.490e3	9.338e3	4.929e2	6.578e2	0.75	NO	1.151e3	0.24802	0.24802	0.0656
15	Total Tetra-Furans	25.50	5.096e3	4.500e3	2.182e2	2.950e2	0.74	NO	5.132e2	0.11061	0.11061	0.0656
16	Total Tetra-Furans	25.65	3.891e4	4.943e4	2.401e3	3.151e3	0.76	NO	5.552e3	1.1968	1.1968	0.0656
17	2,3,7,8-TCDF	25.77	1.317e5	1.654e5	8.326e3	1.110e4	0.75	NO	1.942e4	4.1865	4.1865	0.0656
18	Total Tetra-Furans	26.00	6.454e3	7.027e3	3.919e2	3.564e2	1.10	YES	0.000e0	0.00000	0.13596	0.0656
19	Total Tetra-Furans	26.07	1.608e4	1.926e4	9.182e2	1.294e3	0.71	NO	2.213e3	0.47689	0.47689	0.0656
20	Total Tetra-Furans	27.27	6.797e3	9.338e3	4.162e2	4.497e2	0.93	YES	0.000e0	0.00000	0.17156	0.0656
21	Total Tetra-Furans	27.45	9.619e3	6.567e3	6.112e2	3.247e2	1.88	YES	0.000e0	0.00000	0.12387	0.0656
22	Total Tetra-Furans	27.63	1.549e4	1.661e4	8.544e2	9.722e2	0.88	NO	1.827e3	0.39370	0.39370	0.0656

**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	27.24	2.944e5	1.851e5	1.706e4	1.113e4	1.53	NO	2.819e4	4.9308	4.9308	0.0204

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Name: 200930R2\_10, Date: 01-Oct-2020, Time: 04:32:09, ID: 2001995-11 PDI-171SC-A-06-07-200521 10, Description: PDI-171SC-A-06-07-200521

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.70	1.701e4	1.033e4	1.210e3	7.309e2	1.66	NO	1.941e3	0.33950	0.33950	0.0733
2	Total Penta-Furans	28.85	1.576e5	1.019e5	1.183e4	7.592e3	1.56	NO	1.942e4	3.3973	3.3973	0.0733
3	Total Penta-Furans	29.48	6.474e4	3.810e4	3.825e3	2.631e3	1.45	NO	6.456e3	1.1291	1.1291	0.0733
4	Total Penta-Furans	29.64	3.977e4	2.948e4	1.628e3	1.321e3	1.23	YES	0.000e0	0.00000	0.46849	0.0733
5	1,2,3,7,8-PeCDF	29.84	1.817e5	1.130e5	9.885e3	5.912e3	1.67	NO	1.580e4	2.7316	2.7316	0.0756
6	Total Penta-Furans	30.09	7.735e4	5.103e4	4.024e3	2.651e3	1.52	NO	6.675e3	1.1675	1.1675	0.0733
7	Total Penta-Furans	30.71	9.200e3	6.443e3	3.562e2	2.657e2	1.34	NO	6.219e2	0.10877	0.10877	0.0733
8	2,3,4,7,8-PeCDF	30.90	1.624e5	1.067e5	8.372e3	5.562e3	1.51	NO	1.393e4	2.2046	2.2046	0.0634
9	Total Penta-Furans	31.80	8.800e3	5.901e3	6.817e2	4.068e2	1.68	NO	1.089e3	0.19038	0.19038	0.0733

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.20	6.393e4	5.623e4	3.158e3	2.611e3	1.21	NO	5.769e3	1.5980	1.5980	0.0961
2	Total Hexa-Furans	32.37	2.198e5	1.846e5	1.004e4	8.272e3	1.21	NO	1.831e4	5.0726	5.0726	0.0961
3	Total Hexa-Furans	33.00	3.320e5	2.793e5	1.590e4	1.308e4	1.22	NO	2.898e4	8.0273	8.0273	0.0961
4	1,2,3,4,7,8-HxCDF	33.47	1.581e5	1.270e5	8.083e3	6.754e3	1.20	NO	1.484e4	4.1842	4.1842	0.0925
5	1,2,3,6,7,8-HxCDF	33.60	5.357e4	4.519e4	3.003e3	2.507e3	1.20	NO	5.510e3	1.4693	1.4693	0.0904
6	2,3,4,6,7,8-HxCDF	34.28	3.078e4	2.271e4	1.879e3	1.429e3	1.31	NO	3.308e3	0.86972	0.86972	0.0914
7	1,2,3,7,8,9-HxCDF	35.31	2.206e4	1.604e4	1.135e3	9.385e2	1.21	NO	2.073e3	0.63435	0.63435	0.114
8	Total Hexa-Furans	35.33	1.274e4	1.197e4	2.956e2	2.463e2	1.20	NO	5.419e2	0.15010	0.15010	0.0961

**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	36.87	2.540e5	2.394e5	1.751e4	1.746e4	1.00	NO	3.497e4	12.803	12.803	0.231
2	Total Hepta-Furans	37.57	6.513e5	6.567e5	4.197e4	4.168e4	1.01	NO	8.364e4	34.126	34.126	0.238
3	1,2,3,4,7,8,9-HpCDF	38.85	3.396e4	3.359e4	1.933e3	1.893e3	1.02	NO	3.826e3	1.5701	1.5701	0.219

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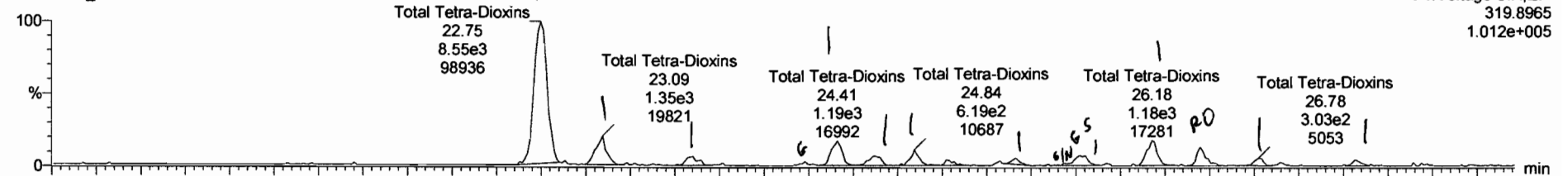
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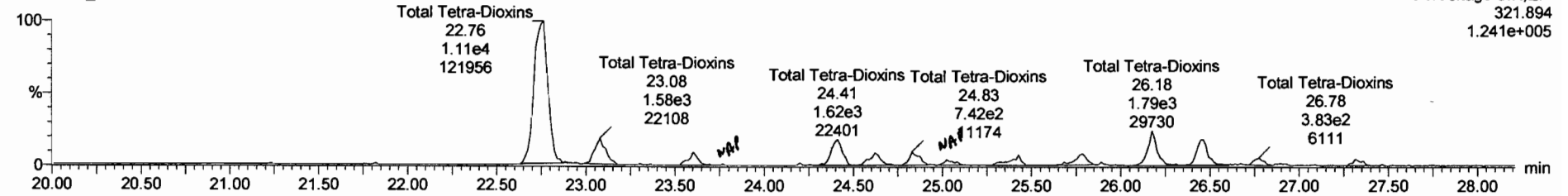
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**2,3,7,8-TCDD**

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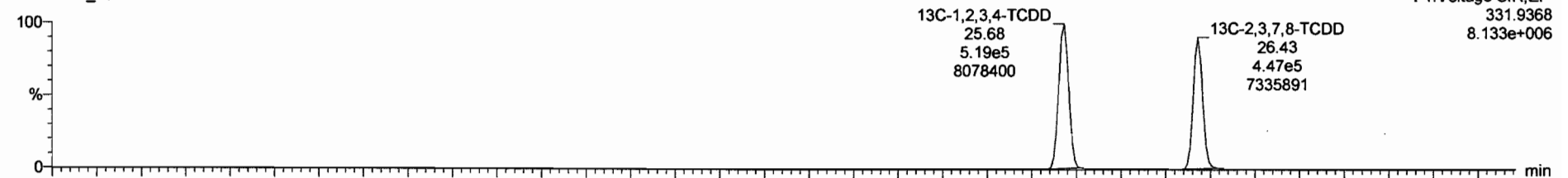


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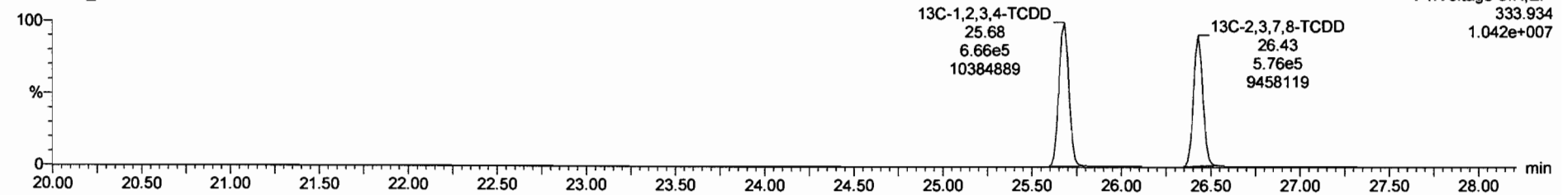


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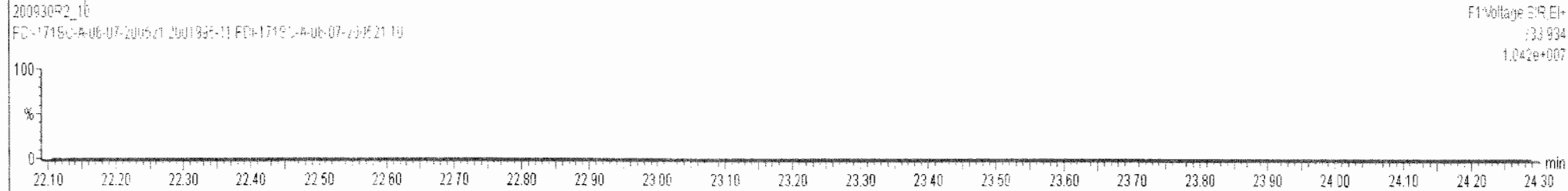
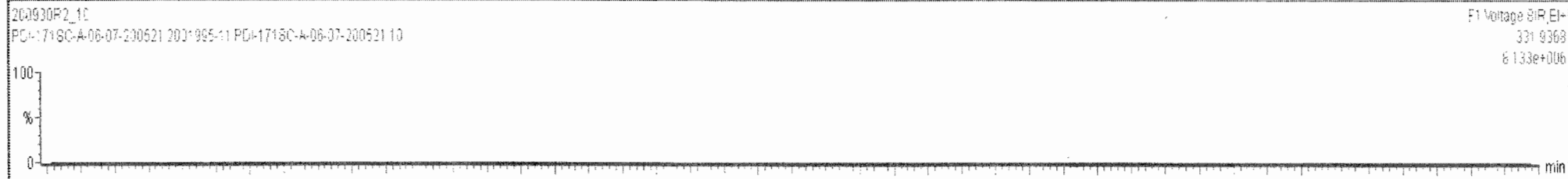
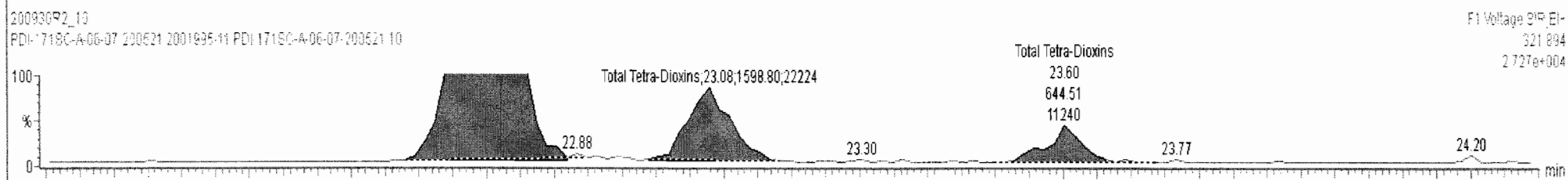
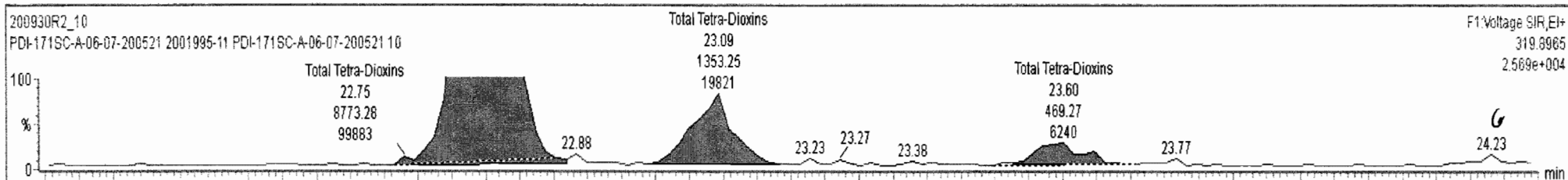




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Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			1.0160	10.047			6.78		0.0481	7.12
40	Total Penta-Dioxins			0.9561	10.047			2.87		0.0658	5.40
41	Total Hexa-Dioxins			0.8879	10.047			45.6		0.193	45.7

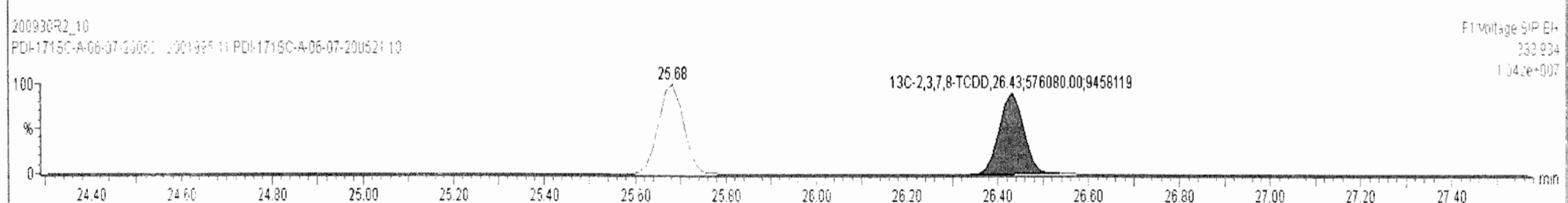
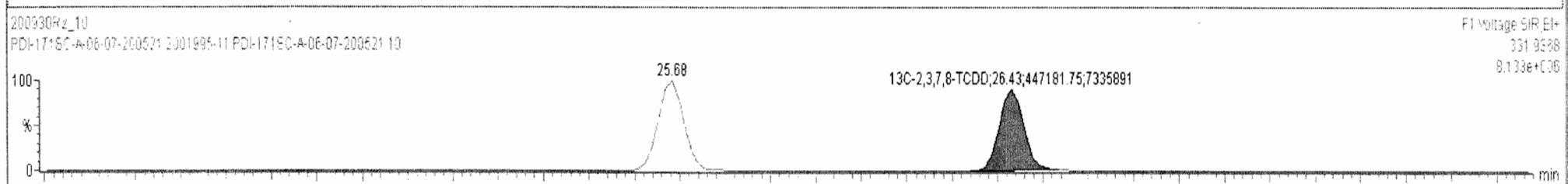
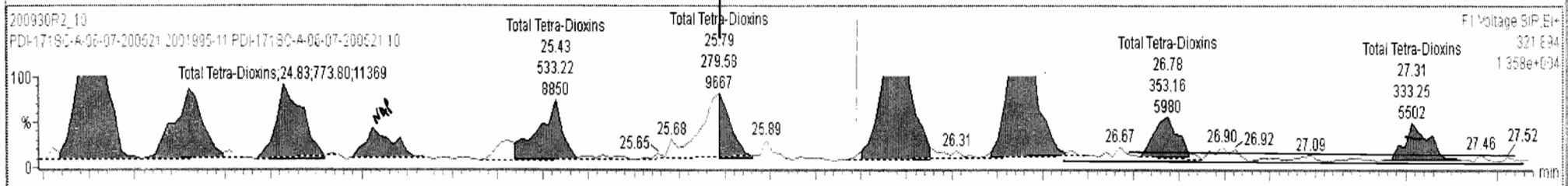
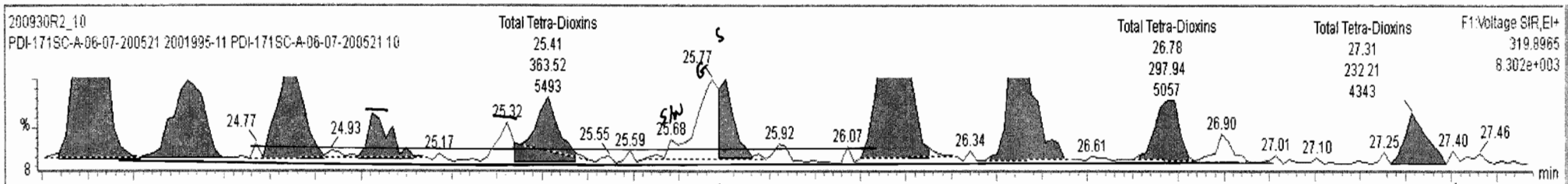
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Tetra-Dioxins	22.75	8.773e3	1.115e4	0.79	NO	3.8137
2	Total Tetra-Dioxins	23.09	1.353e3	1.599e3	0.85	NO	0.56522
3	Total Tetra-Dioxins	23.60	4.693e2	6.445e2	0.73	NO	0.21325
4	Total Tetra-Dioxins	24.41	1.185e3	1.589e3	0.75	NO	0.53128



200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.047			6.78		0.0461	7.12
40 Total Penta-Dioxins				0.9561	10.047			2.87		0.0658	5.40
41 Total Hexa-Dioxins				0.8879	10.047			45.6		0.193	45.7

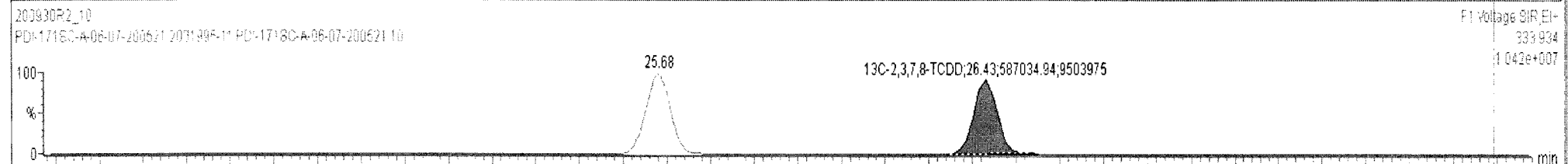
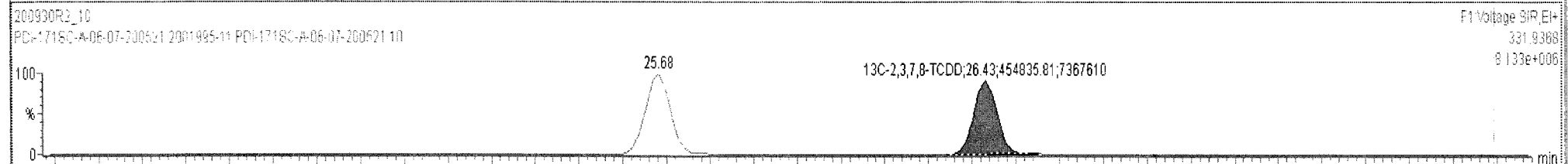
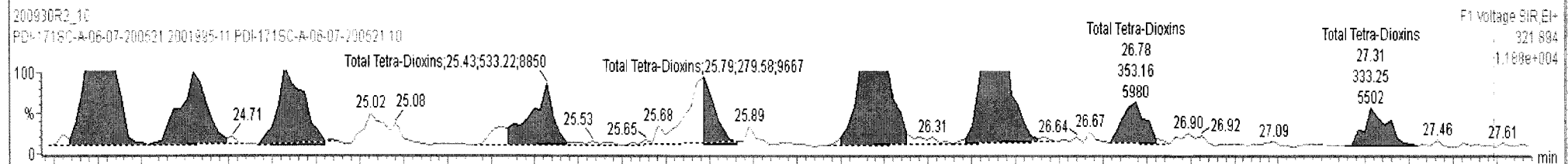
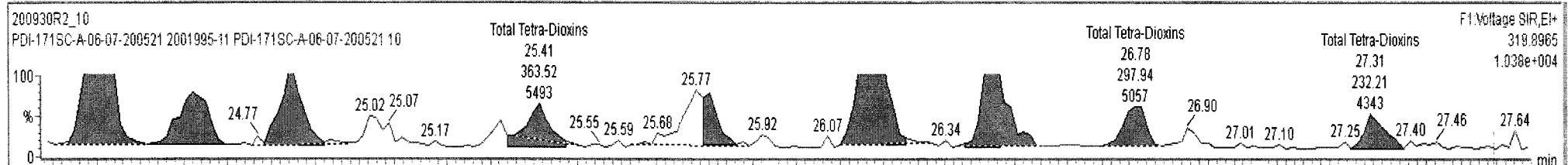
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	22.75	8.773e3	1.115e4	0.79	NO	3.8137	3.8137
2 Total Tetra-Dioxins	23.09	1.353e3	1.599e3	0.85	NO	0.56522	0.56522
3 Total Tetra-Dioxins	23.60	4.693e2	6.445e2	0.73	NO	0.21325	0.21325
4 Total Tetra-Dioxins	24.41	1.185e3	1.589e3	0.75	NO	0.53128	0.53128



200930R2\_10 - 2001995.11 PDI-171SC-A-06-07-200521 10 - FDI-171SC-A-06-07-200521

Name	Resp	RA	nly	RRF	wtAvcl	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0180	10.047			6.57		0.0478	6.90
40 Total Penta-Dioxins				0.9561	10.047			2.87		0.0658	5.40
41 Total Hexa-Dioxins				0.8879	10.047			45.6		0.1931	45.7

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Dioxins	22.75	8.773e3	1.115e4	0.79	NO	3.7456	3.7456
2 Total Tetra-Dioxins	23.09	1.353e3	1.589e3	0.85	NO	0.55512	0.55512
3 Total Tetra-Dioxins	23.60	4.693e2	6.445e2	0.73	NO	0.20944	0.20944
4 Total Tetra-Dioxins	24.41	1.185e3	1.589e3	0.75	NO	0.52179	0.52179
5 Total Tetra-Dioxins	24.62	5.334e2	7.544e2	0.71	NO	0.24217	0.24217
6 Total Tetra-Dioxins	24.84	5.843e2	7.738e2	0.76	NO	0.25538	0.25538

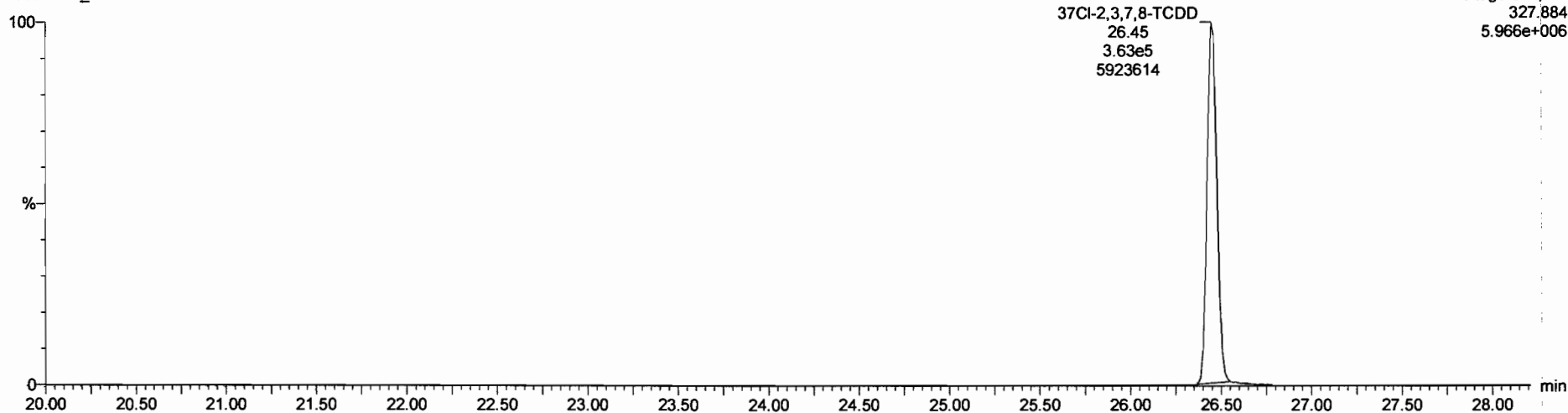


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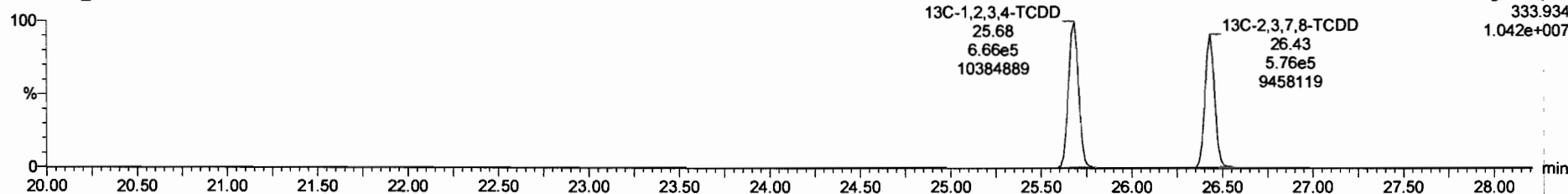
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**13C-1,2,3,4-TCDD**  
200930R2\_10



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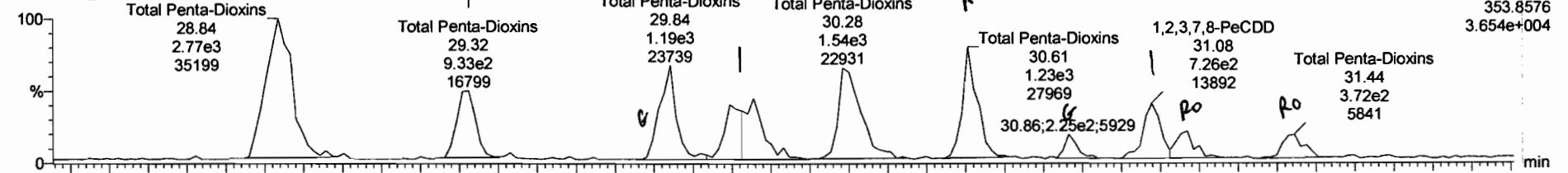
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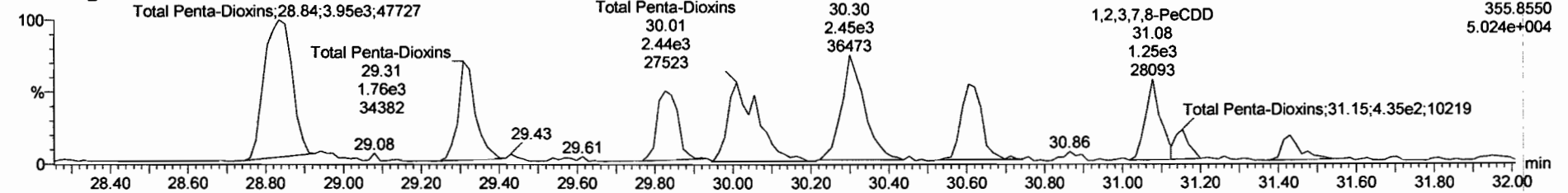
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1,2,3,7,8-PeCDD

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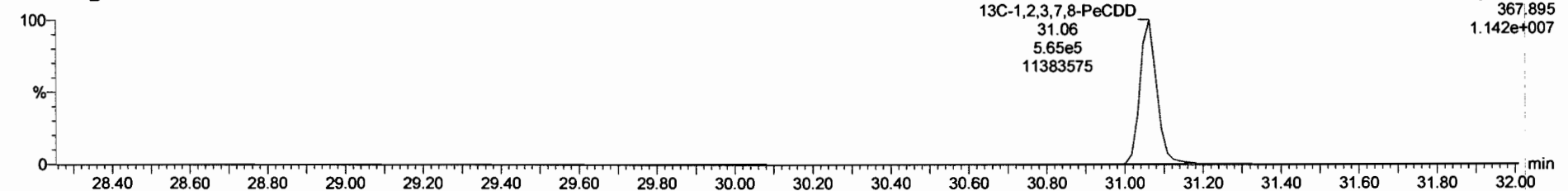


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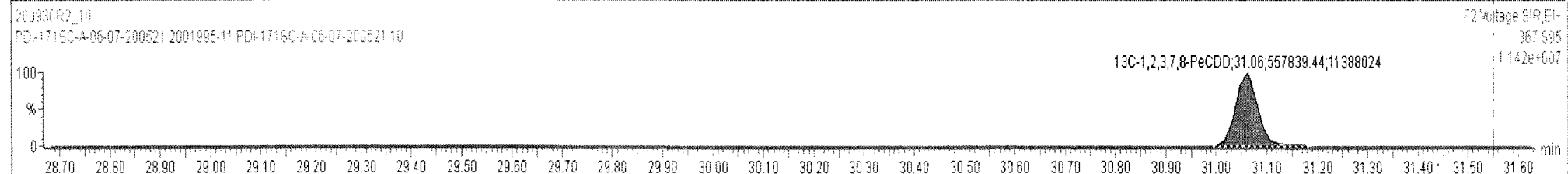
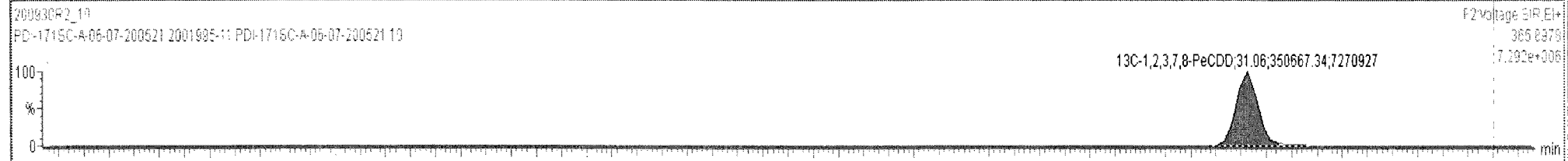
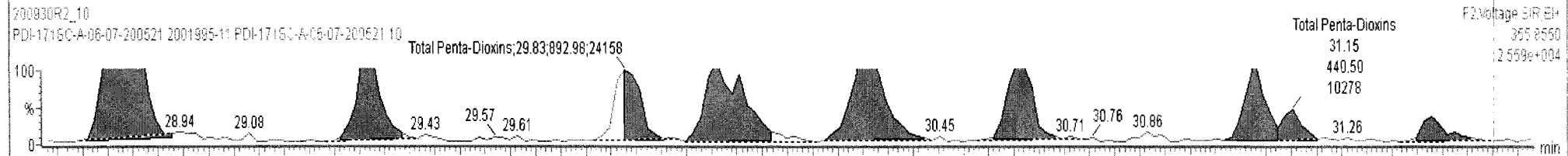
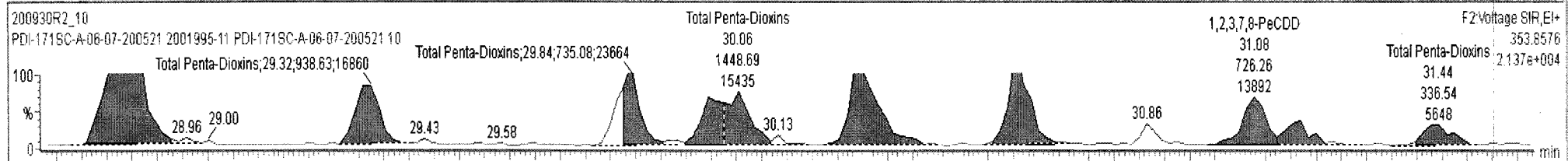




200930R2\_10 - 2001995-11 PDI-1715C-A-06-07-200521 10 - PDI-1715C-A-06-07-200521

Name	Resp	RA	n/y	RRF	wt/yol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.047			6.57		0.0478	6.90
40 Total Penta-Dioxins				0.9561	10.047			4.37		0.0657	5.61
41 Total Hexa-Dioxins				0.8879	10.047			45.61		0.1931	45.71

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.84	2.681e3	4.094e3	0.65	NO	1.5525	1.5525
2 Total Penta-Dioxins	29.32	9.386e2	1.716e3	0.55	NO	0.60821	0.60821
3 Total Penta-Dioxins	29.84	7.351e2	8.930e2	0.82	YES	0.33355	0.00000
4 Total Penta-Dioxins	30.06	1.449e3	2.294e3	0.63	NO	0.85764	0.85764
5 Total Penta-Dioxins	30.28	1.528e3	2.408e3	0.63	NO	0.90203	0.90203
6 Total Penta-Dioxins	30.61	1.221e3	1.552e3	0.79	YES	0.57972	0.00000
7 1,2,3,7,8-PeCDD	31.08	7.263e2	1.248e3	0.58	NO	0.45231	0.45231

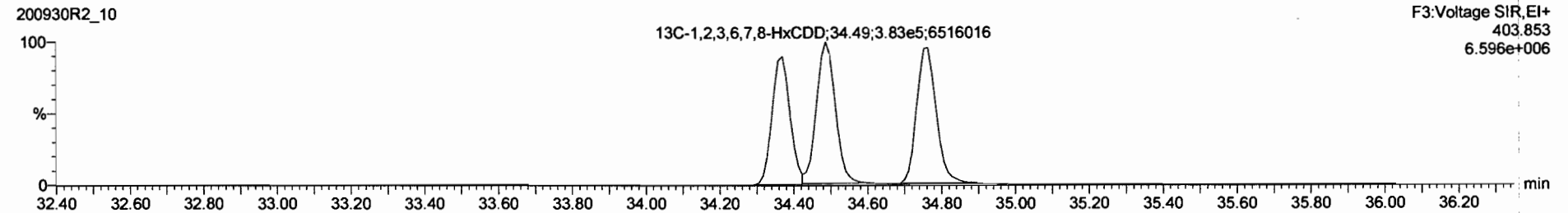
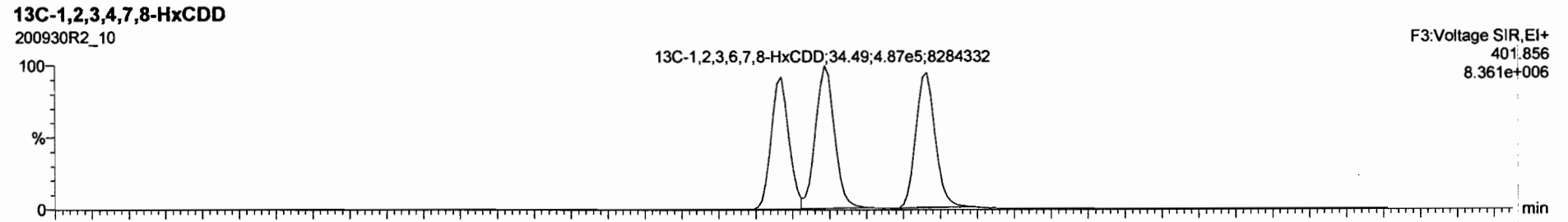
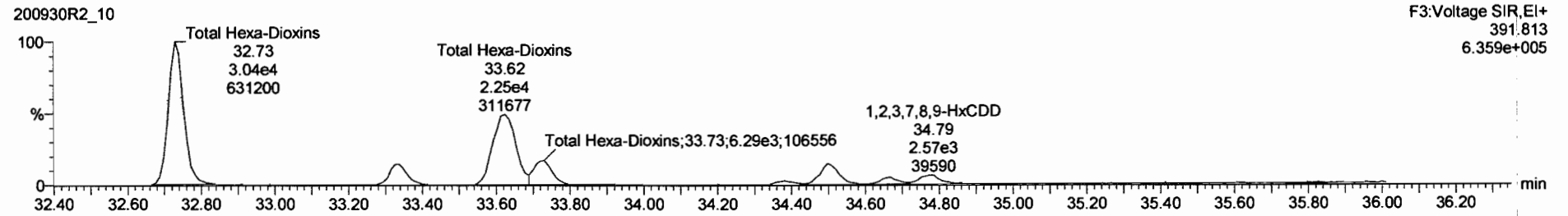
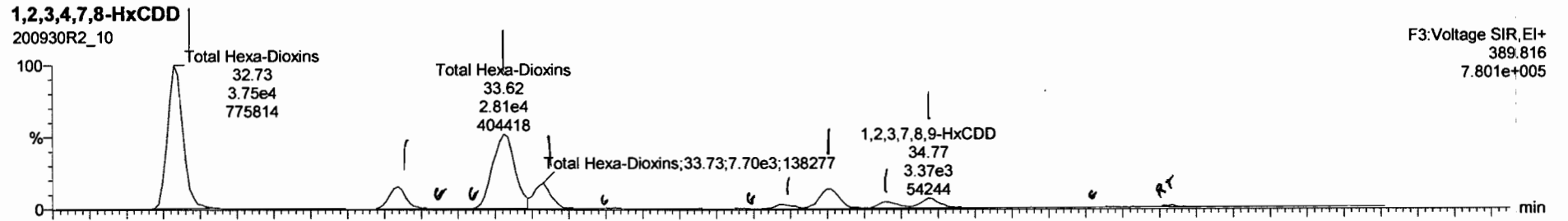


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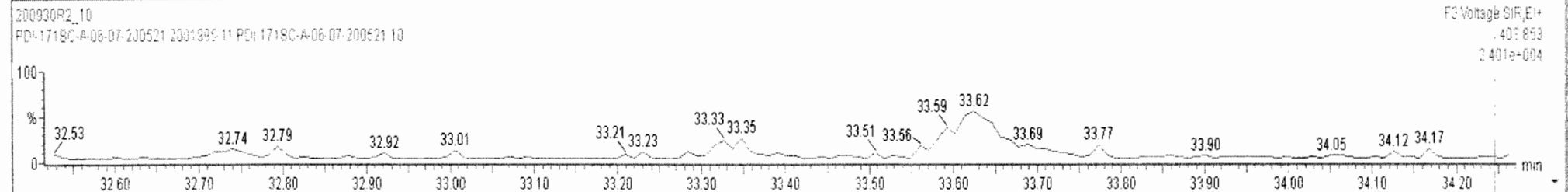
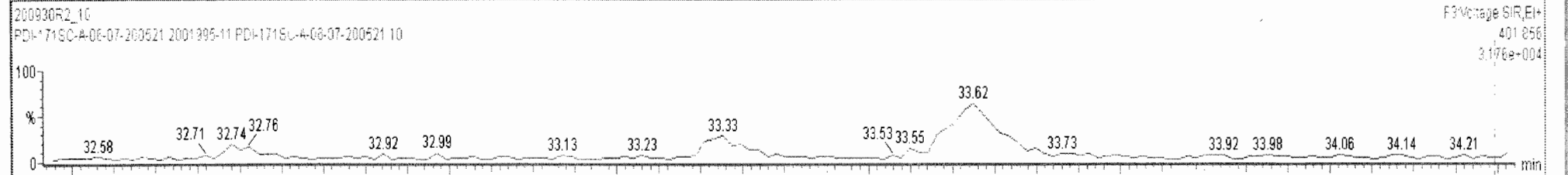
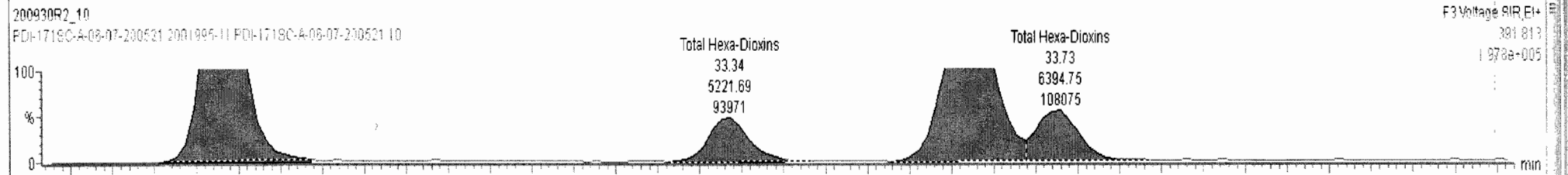
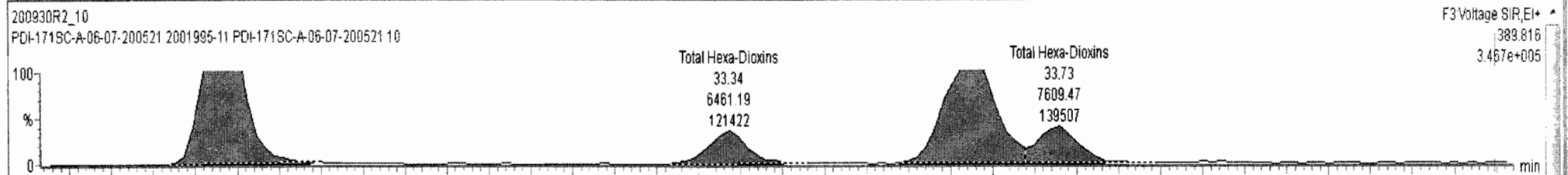
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200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rep	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.047			6.57		0.0478	6.90
40 Total Penta-Dioxins				0.9561	10.047			4.37		0.0657	5.61
41 Total Hexa-Dioxins				0.8879	10.047			46.0		0.193	46.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.73	3.798e4	3.108e4	1.22	NO	18.743	18.743
2 Total Hexa-Dioxins	33.34	6.461e3	5.222e3	1.24	NO	3.1710	3.1710
3 Total Hexa-Dioxins	33.62	2.829e4	2.261e4	1.25	NO	13.814	13.814
4 Total Hexa-Dioxins	33.73	7.609e3	6.395e3	1.19	NO	3.8011	3.8011



Ready

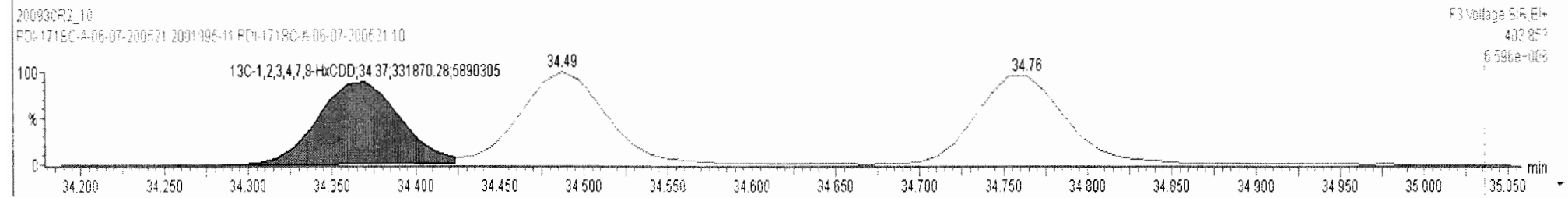
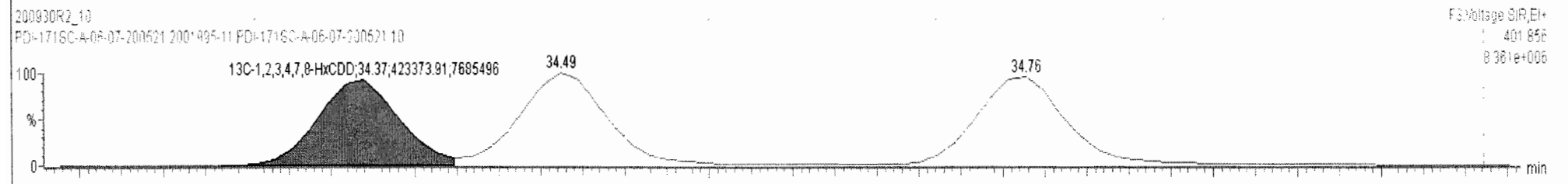
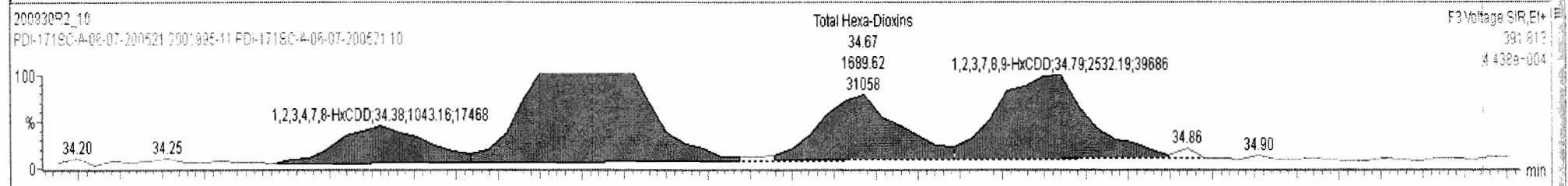
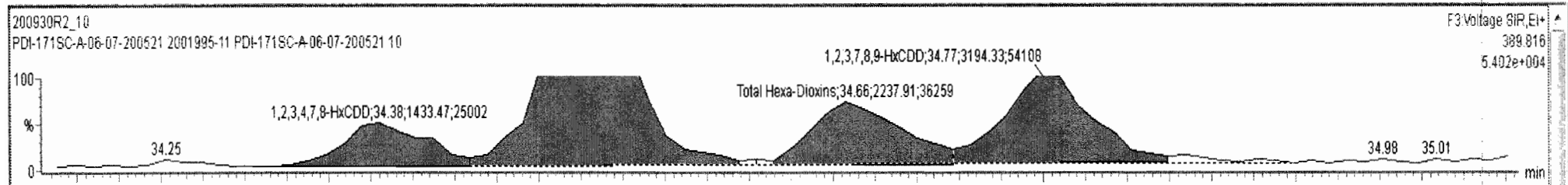
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200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins			1.0160	10.047			6.57		0.0478	6.90
40	Total Penta-Dioxins			0.9561	10.047			4.37		0.0657	5.61
41	Total Hexa-Dioxins			0.8879	10.047			45.9		0.1931	45.9

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Hexa-Dioxins	32.73	3.798e4	3.108e4	1.22	NO	18.743	18.743
2	Total Hexa-Dioxins	33.34	6.461e3	5.222e3	1.24	NO	3.1710	3.1710
3	Total Hexa-Dioxins	33.62	2.829e4	2.261e4	1.25	NO	13.814	13.814
4	Total Hexa-Dioxins	33.73	7.609e3	6.395e3	1.19	NO	3.8011	3.8011



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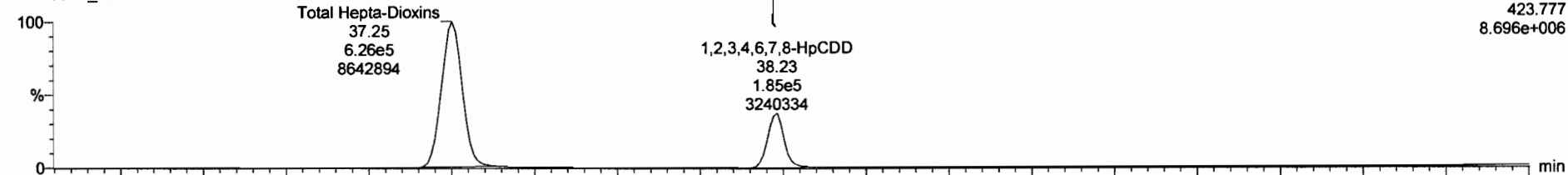
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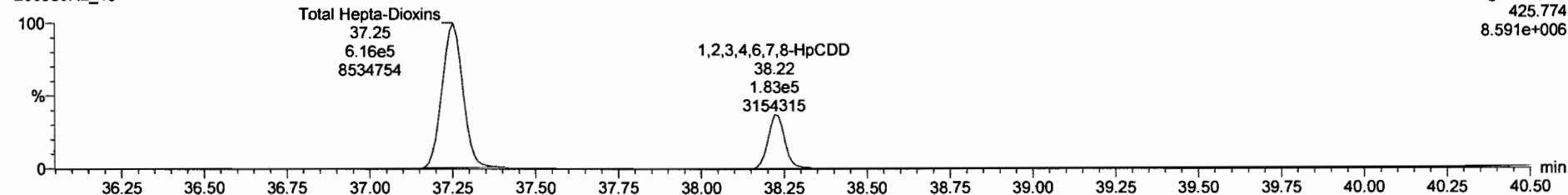
**1,2,3,4,6,7,8-HpCDD**

200930R2\_10



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8.696e+006

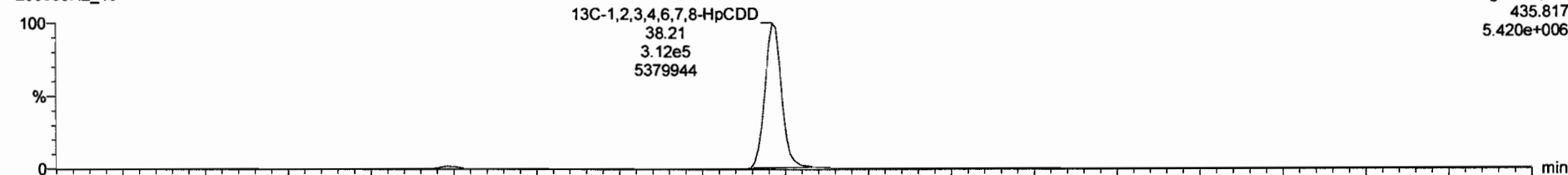
200930R2\_10



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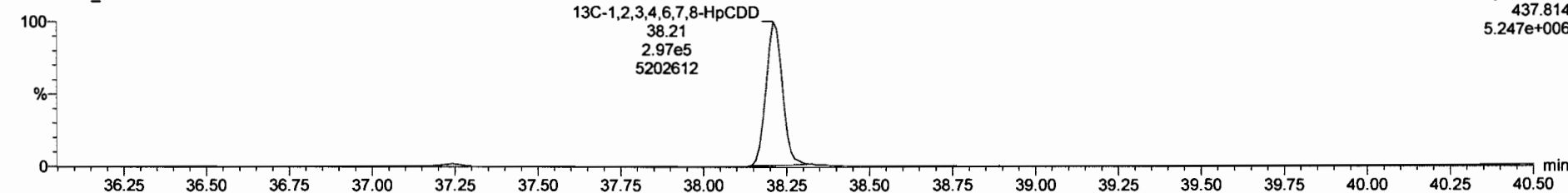
**13C-1,2,3,4,6,7,8-HpCDD**

200930R2\_10



F4:Voltage SIR,El+  
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200930R2\_10



F4:Voltage SIR,El+  
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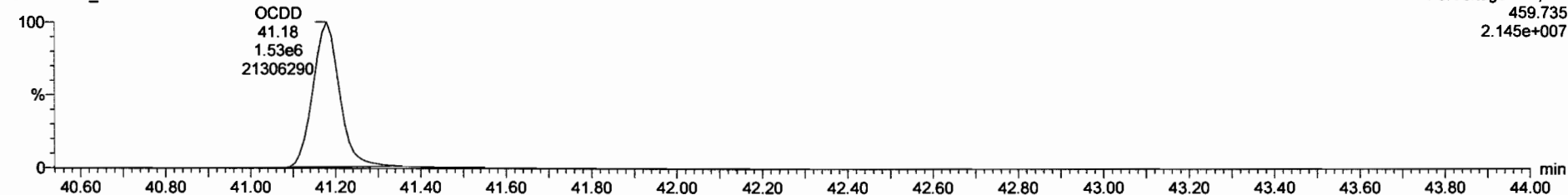
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**OCDD**

200930R2\_10



200930R2\_10

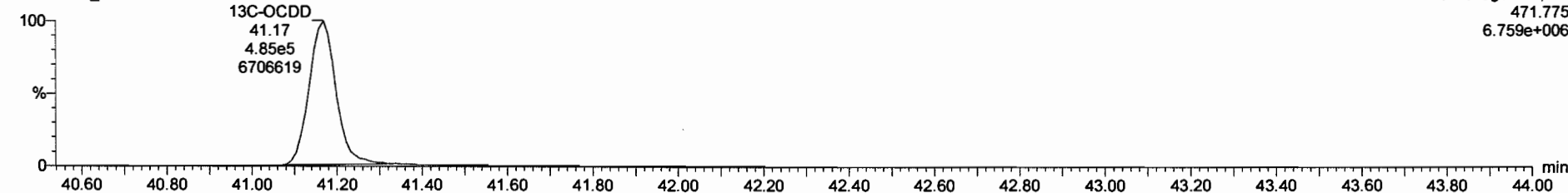


**13C-OCDD**

200930R2\_10



200930R2\_10



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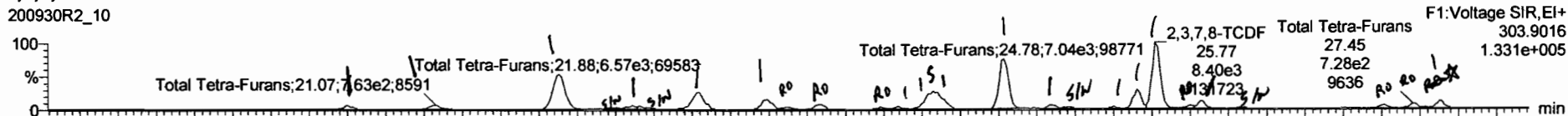
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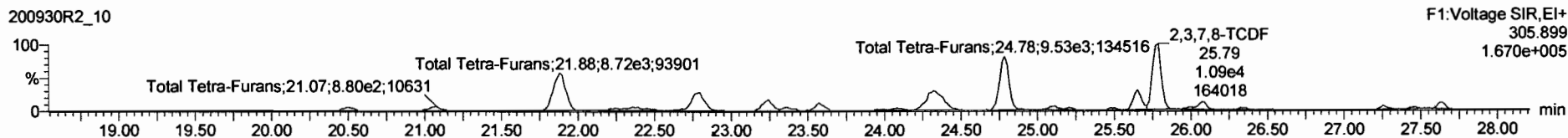
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**2,3,7,8-TCDF**

200930R2\_10

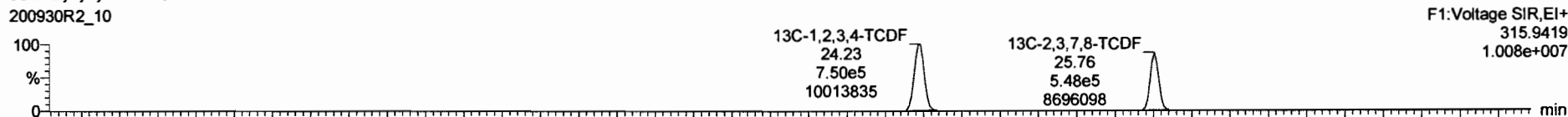


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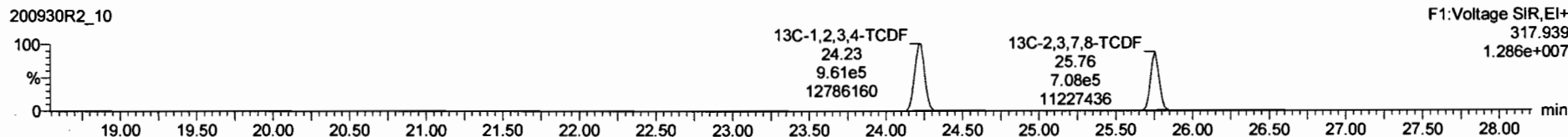


**13C-2,3,7,8-TCDF**

200930R2\_10

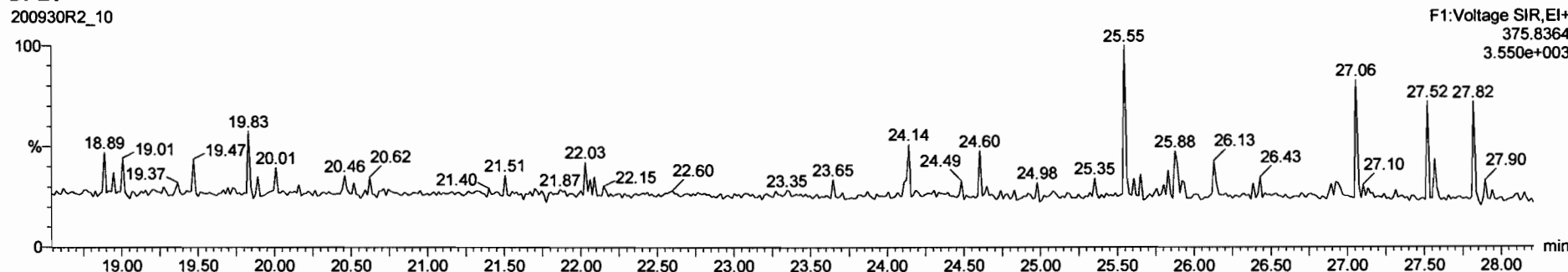


200930R2\_10



**DPE1**

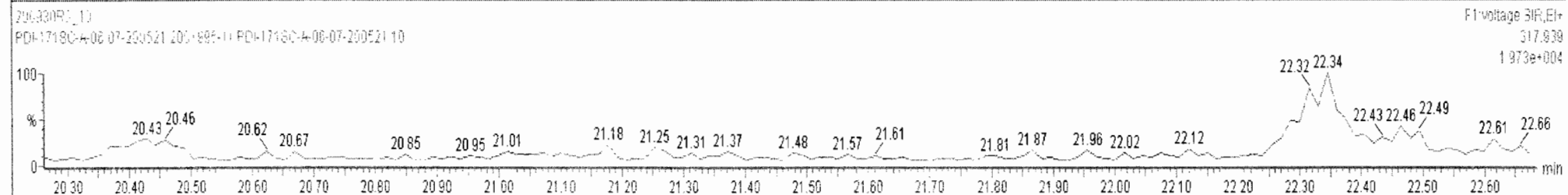
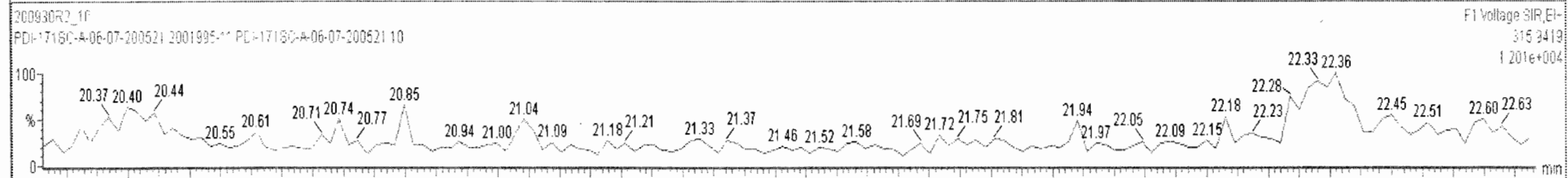
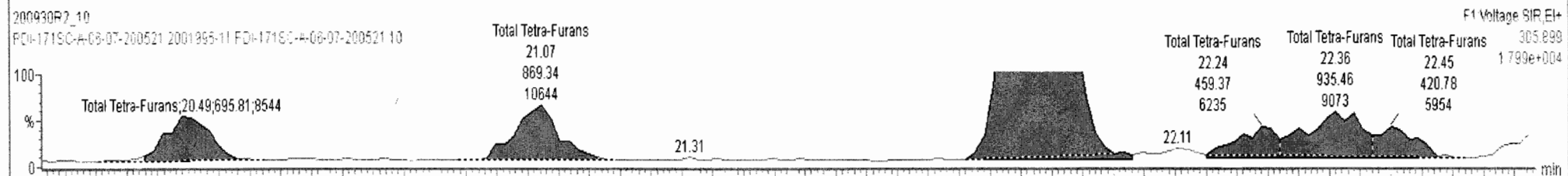
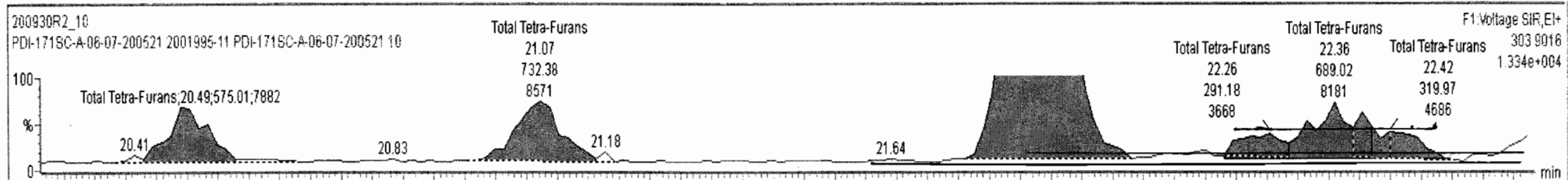
200930R2\_10



200930R2\_10 - 2001995-11 FDI-171SC-A-06-07-200521 10 - FDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.047			19.9		0.0658	21.1
44 1st Func. Penta-Furans				0.9386	10.047			4.93		0.0204	4.93
45 Total Penta-Furans				0.9386	10.047			11.0		0.0733	11.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.49	5.750e2	6.958e2	0.83	NO	0.27391	0.27391
2 Total Tetra-Furans	21.07	7.324e2	8.693e2	0.84	NO	0.34524	0.34524
3 Total Tetra-Furans	21.68	6.581e3	8.899e3	0.74	NO	3.3367	3.3367
4 Total Tetra-Furans	22.26	2.912e2	4.594e2	0.63	YES	0.14427	0.00000

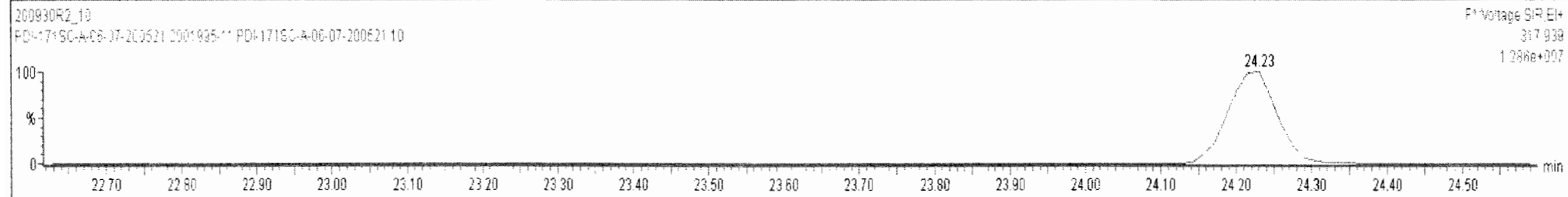
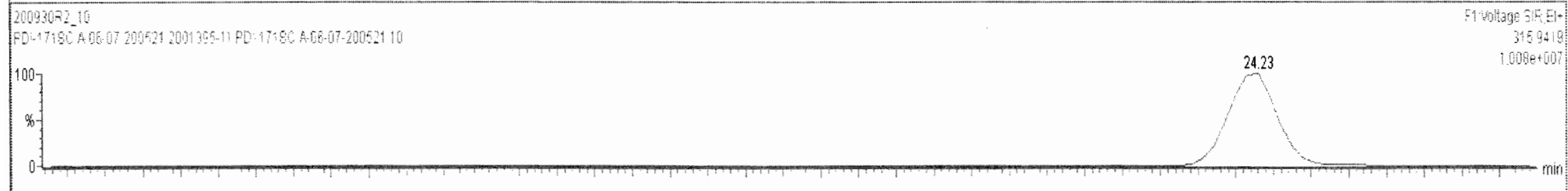
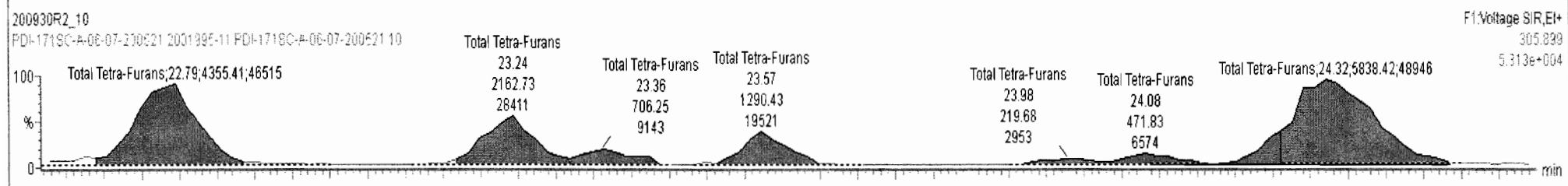
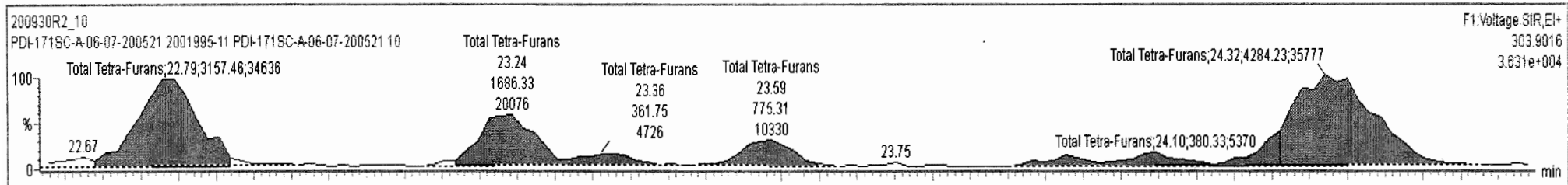




200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.047			19.7		0.0656	20.8
44 1st Func. Penta-Furans				0.9386	10.047			4.93		0.0204	4.93
45 Total Penta-Furans				0.9386	10.047			11.0		0.0733	11.7

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.49	5.750e2	6.958e2	0.83	NO	0.27391	0.27391
2 Total Tetra-Furans	21.07	7.324e2	8.693e2	0.84	NO	0.34524	0.34524
3 Total Tetra-Furans	21.88	6.581e3	8.899e3	0.74	NO	3.3367	3.3367
4 Total Tetra-Furans	22.36	6.890e2	9.355e2	0.74	NO	0.35014	0.35014

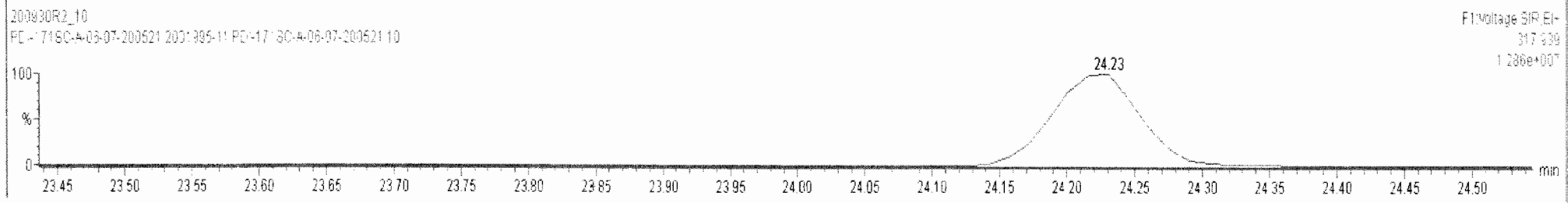
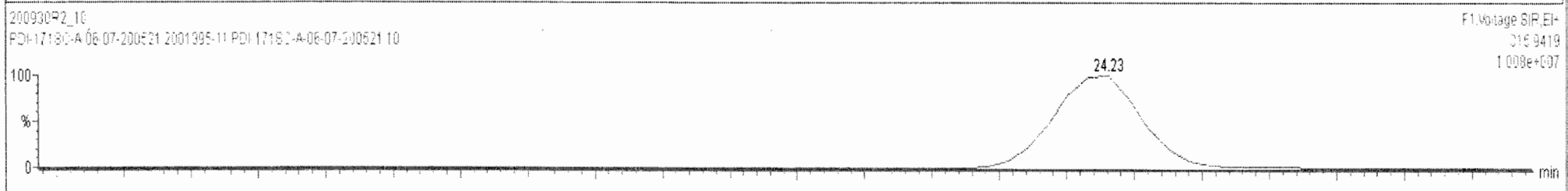
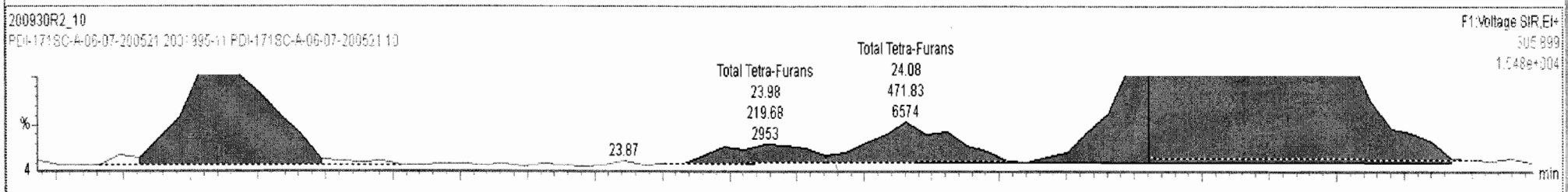
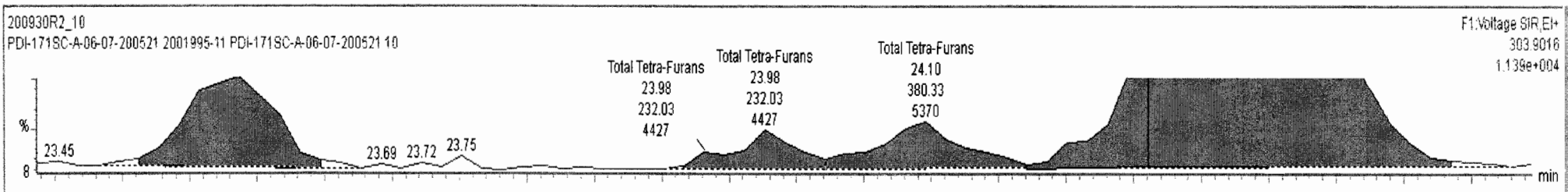




200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.047			19.7		0.0656	20.8
44 1st Func. Penta-Furans				0.9386	10.047			4.93		0.0204	4.93
45 Total Penta-Furans				0.9386	10.047			11.01		0.0733	11.71

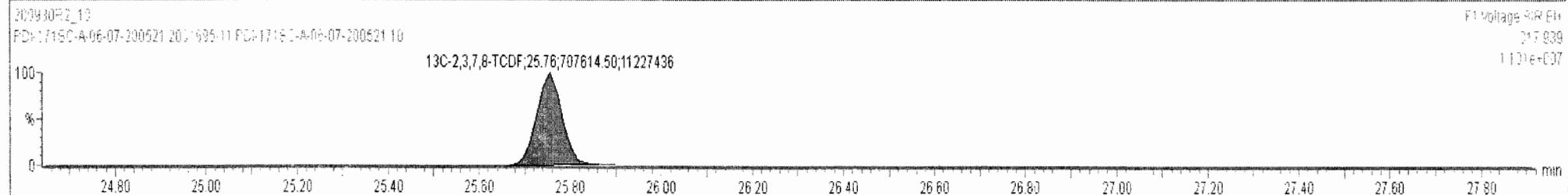
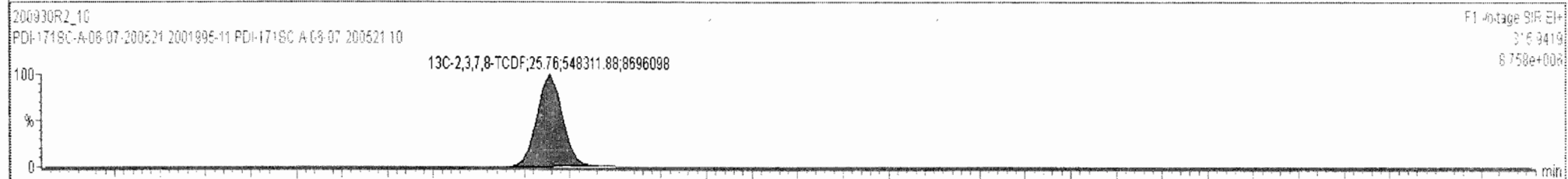
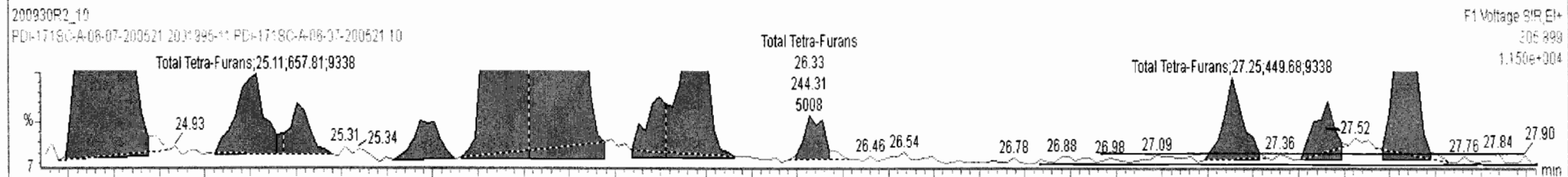
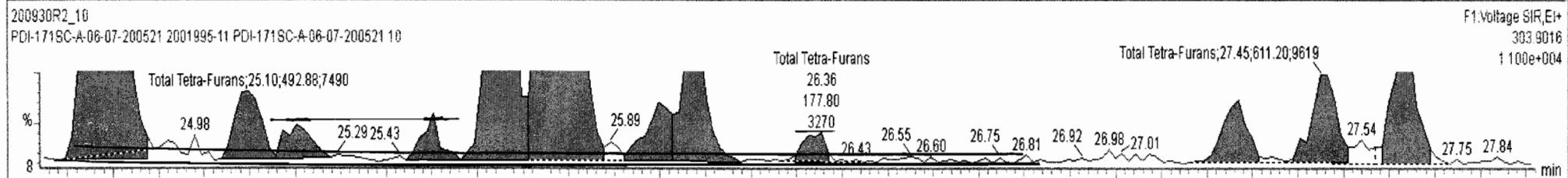
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.49	5.750e2	6.958e2	0.83	NO	0.27391	0.27391
2 Total Tetra-Furans	21.07	7.324e2	8.693e2	0.84	NO	0.34524	0.34524
3 Total Tetra-Furans	21.88	6.581e3	8.899e3	0.74	NO	3.3367	3.3367
4 Total Tetra-Furans	22.36	6.890e2	9.355e2	0.74	NO	0.35014	0.35014



200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.047			19.6		0.0636	20.8
44 1st Func. Penta-Furans				0.9386	10.047			4.93		0.0204	4.93
45 Total Penta-Furans				0.9386	10.047			11.0		0.0733	11.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.49	5.750e2	6.958e2	0.83	NO	0.27391	0.27391
2 Total Tetra-Furans	21.07	7.324e2	8.693e2	0.84	NO	0.34524	0.34524
3 Total Tetra-Furans	21.88	6.581e3	8.899e3	0.74	NO	3.3367	3.3367
4 Total Tetra-Furans	22.36	6.890e2	9.355e2	0.74	NO	0.35014	0.35014



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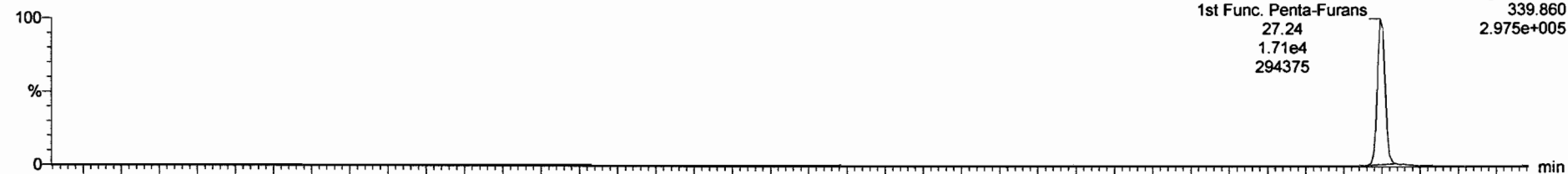
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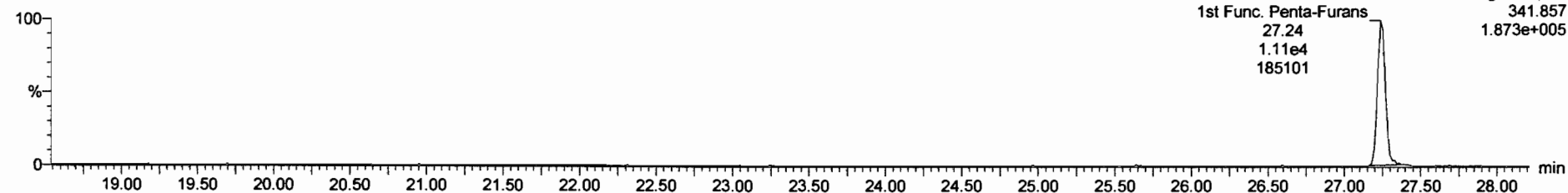
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1st Func. Penta-Furans

200930R2\_10

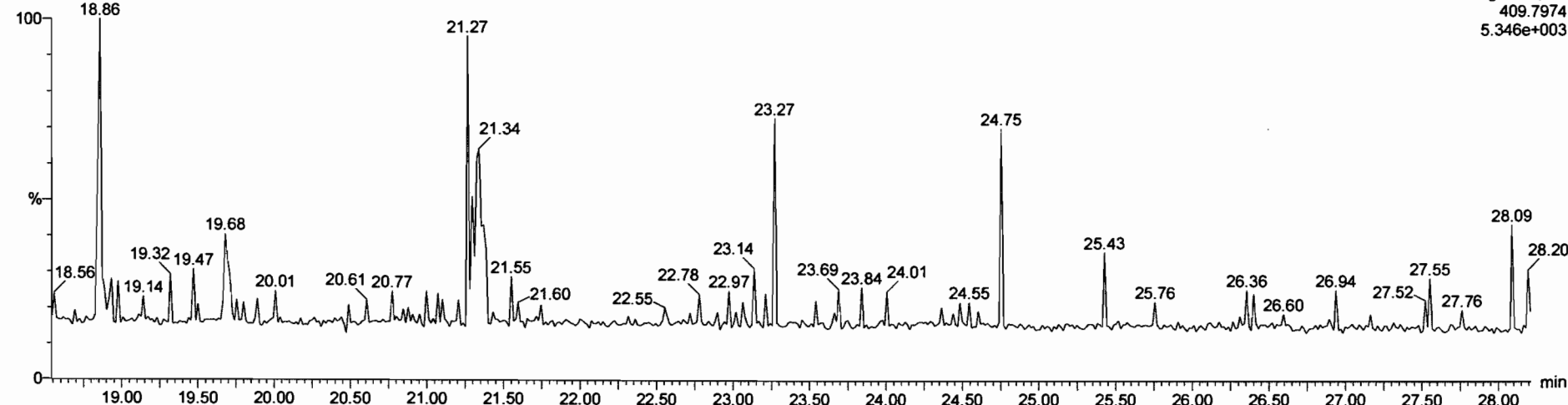


200930R2\_10



DPE6

200930R2\_10



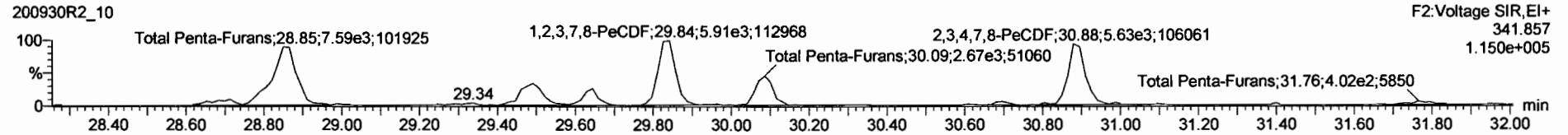
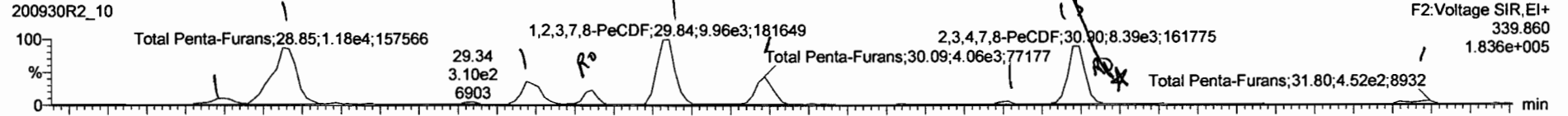
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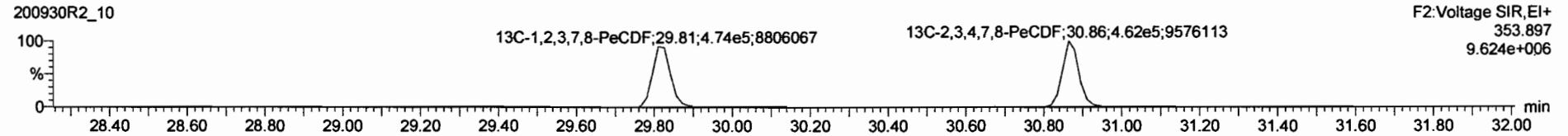
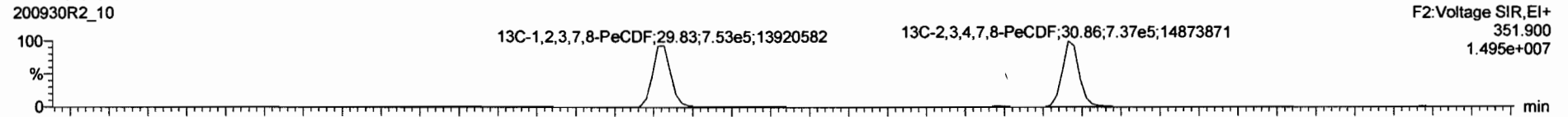
*July 10-22-2020*

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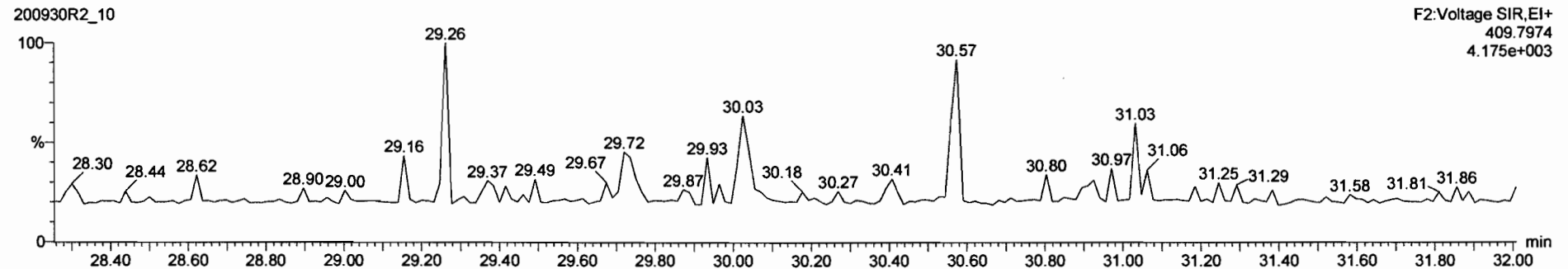
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**13C-1,2,3,7,8-PeCDF**



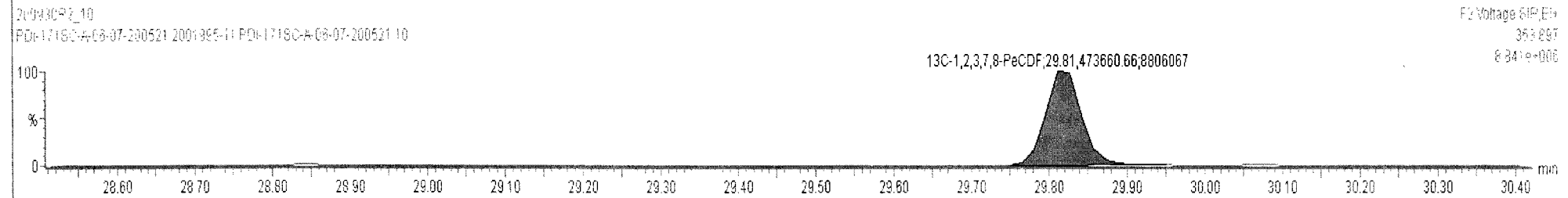
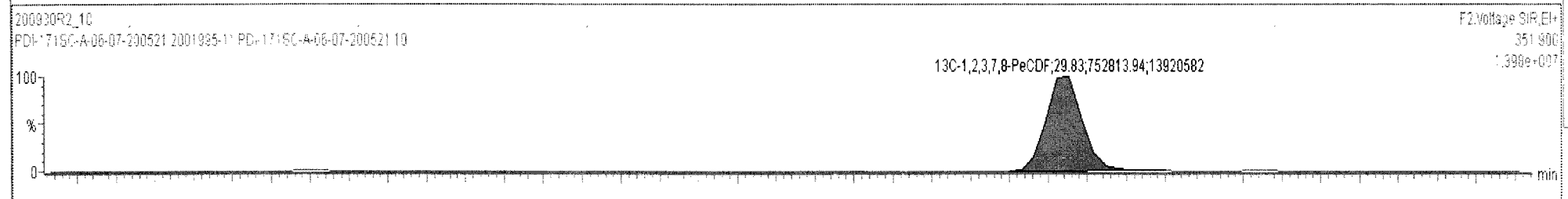
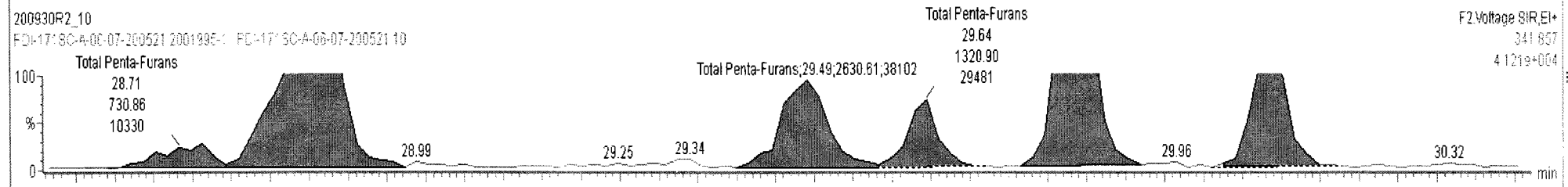
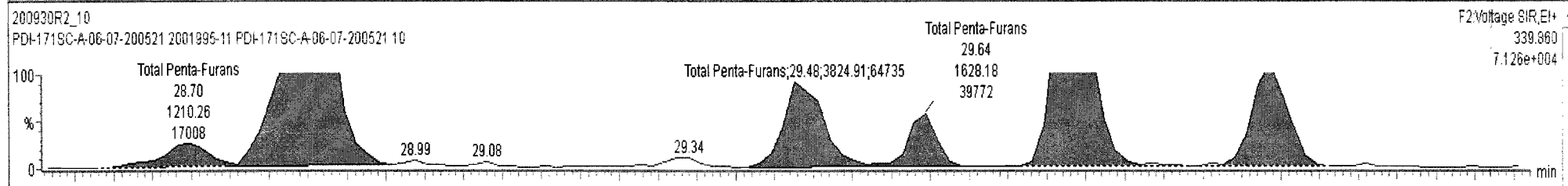
**DPE2**



200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.047			19.5		0.0656	20.6
44 1st Func. Penta-Furans				0.9386	10.047			4.93		0.0204	4.93
45 Total Penta-Furans				0.9386	10.047			11.1		0.0733	11.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.70	1.210e3	7.309e2	1.66	NO	0.33950	0.33950
2 Total Penta-Furans	28.85	1.183e4	7.592e3	1.56	NO	3.3973	3.3973
3 Total Penta-Furans	29.48	3.825e3	2.631e3	1.45	NO	1.1291	1.1291
4 Total Penta-Furans	29.64	1.628e3	1.321e3	1.23	YES	0.46849	0.00000

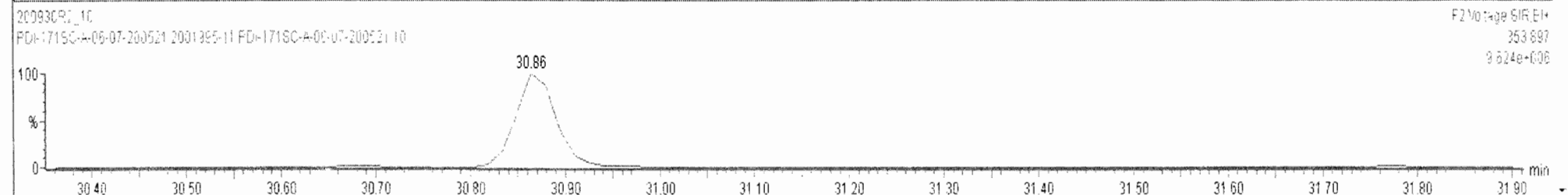
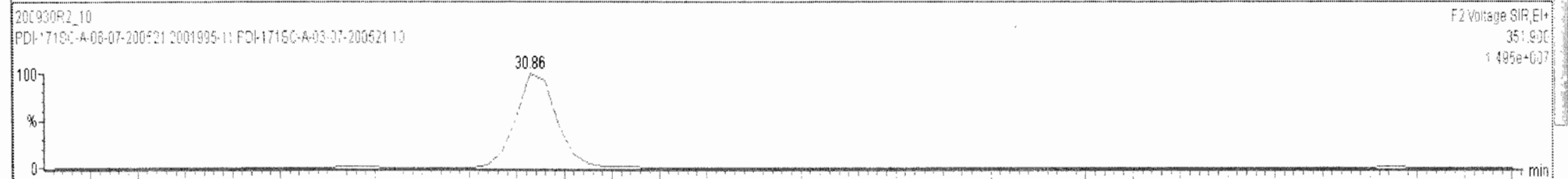
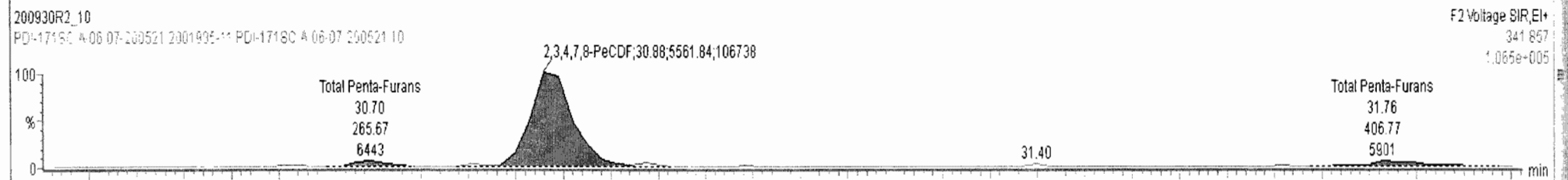
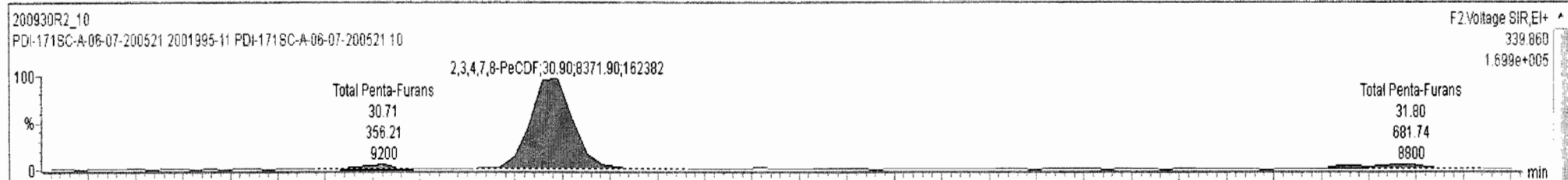


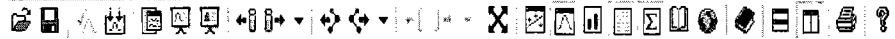


200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.047			11.3		0.0733	11.7
46 Total Hexa-Furans				0.8699	10.047			21.9		0.0961	21.9
47 Total Hepta-Furans				0.8908	10.047			48.5		0.238	48.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
7 Total Penta-Furans	29.48	3.825e3	2.631e3	1.45	NO	1.1291	1.1291
8 Total Penta-Furans	28.85	1.183e4	7.592e3	1.56	NO	3.3973	3.3973
9 Total Penta-Furans	28.70	1.210e3	7.309e2	1.66	NO	0.33950	0.33950

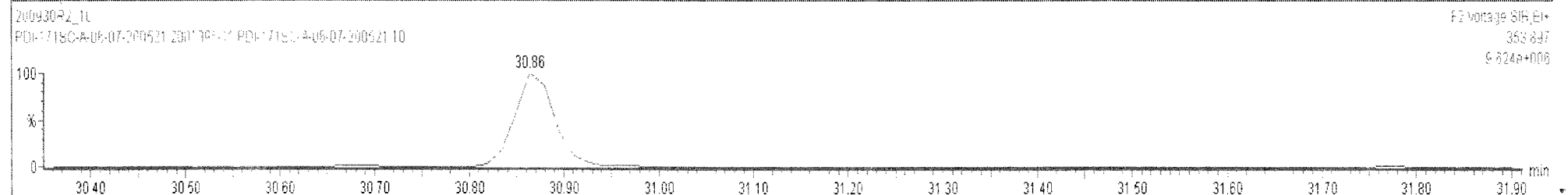
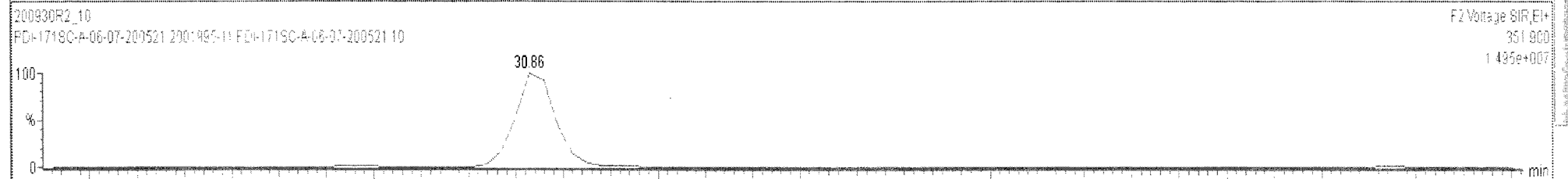
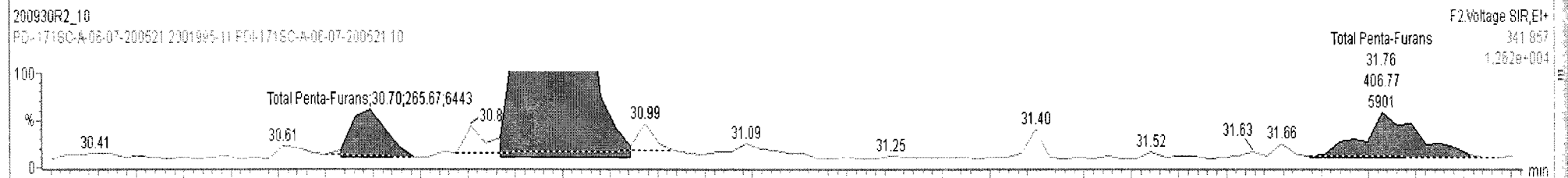
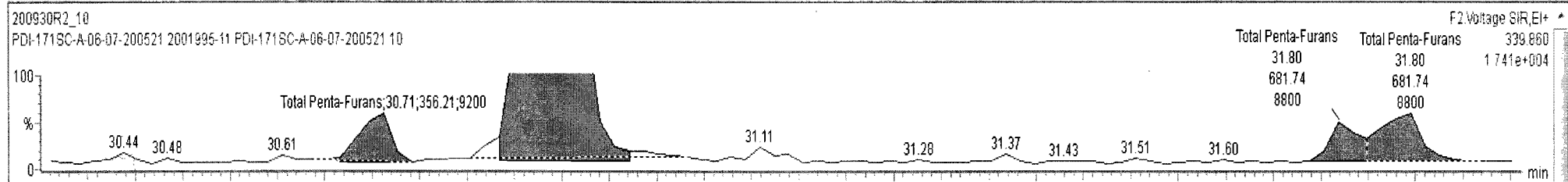




200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.047			11.3		0.0733	11.7
46 Total Hexa-Furans				0.8699	10.047			21.9		0.0961	21.9
47 Total Hepta-Furans				0.8908	10.047			48.5		0.238	48.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
7 Total Penta-Furans	29.48	3.825e3	2.631e3	1.45	NO	1.1291	1.1291
8 Total Penta-Furans	26.85	1.183e4	7.592e3	1.56	NO	3.3973	3.3973
9 Total Penta-Furans	26.70	1.210e3	7.309e2	1.66	NO	0.33950	0.33950





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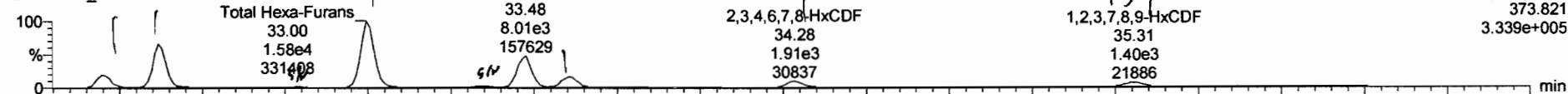
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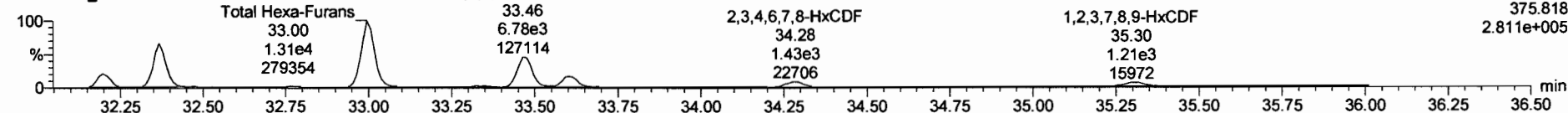
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**1,2,3,4,7,8-HxCDF**

200930R2\_10

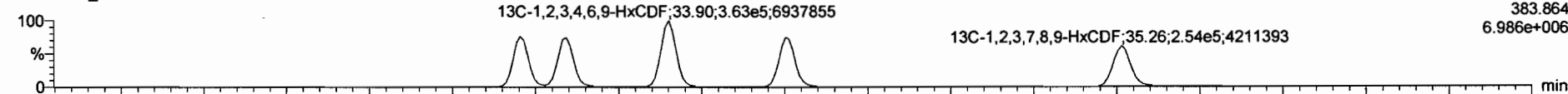


200930R2\_10

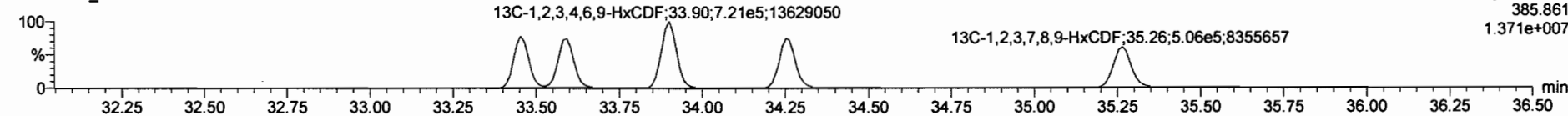


**13C-1,2,3,4,7,8-HxCDF**

200930R2\_10

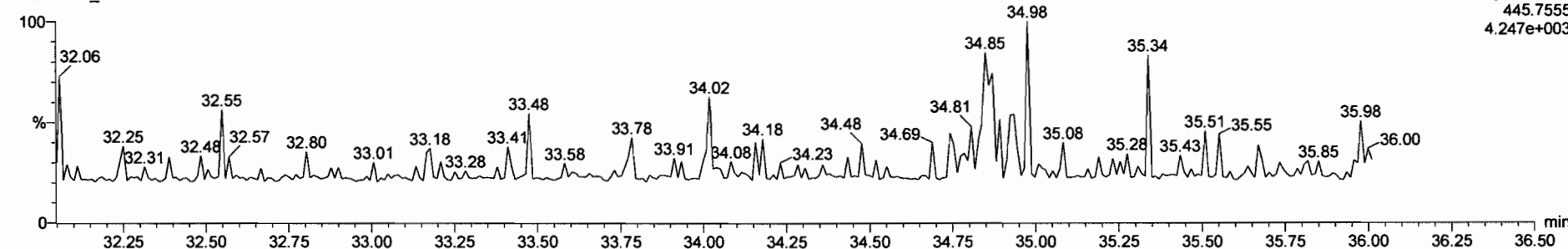


200930R2\_10



**DPE3**

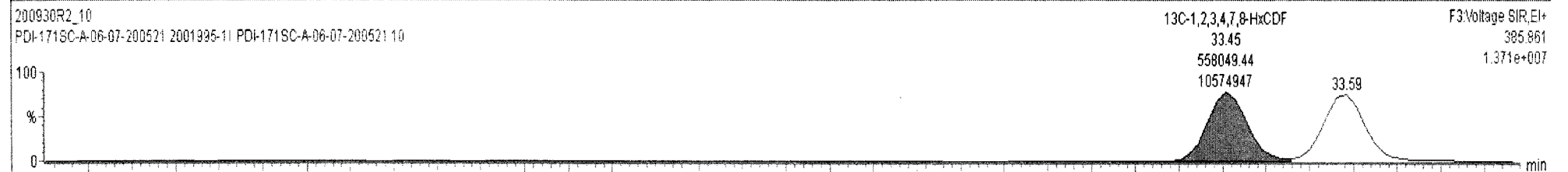
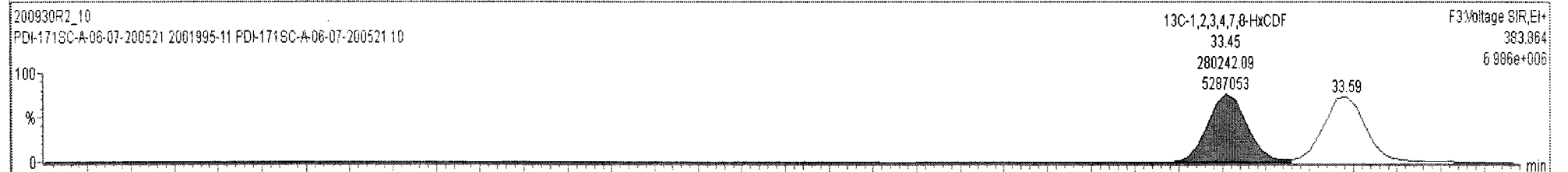
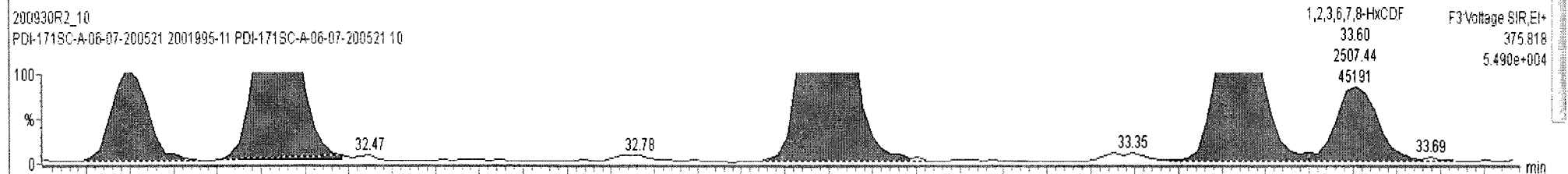
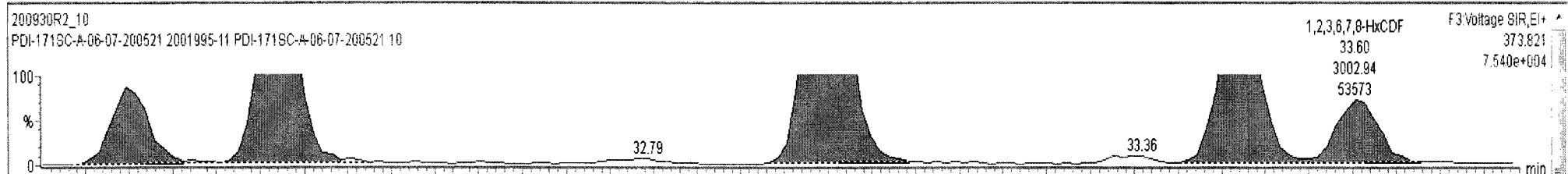
200930R2\_10



200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	n/y	RRF	wtAvt	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.047			22.0		0.0861	22.0
47 Total Hepta-Furans				0.8908	10.047			48.4		0.238	48.4
48 PFK1											

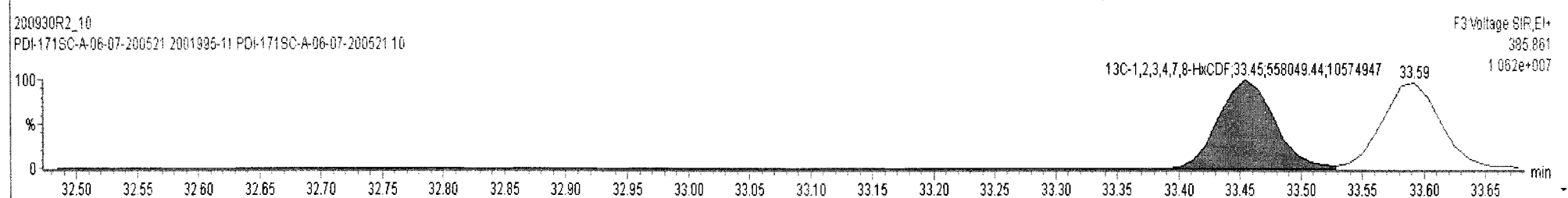
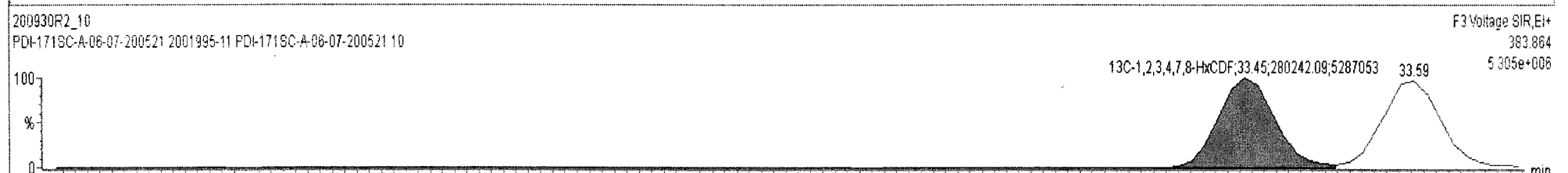
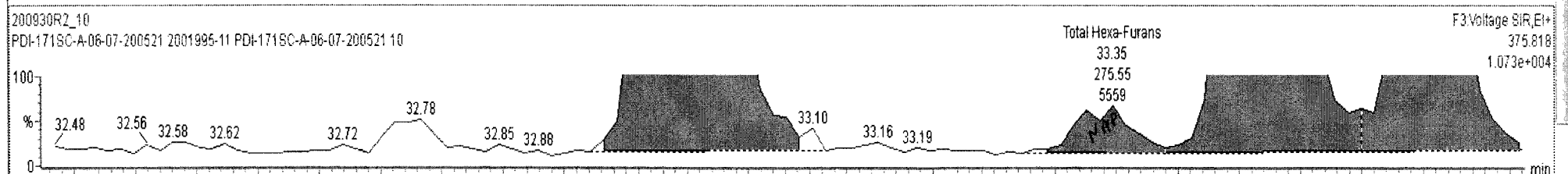
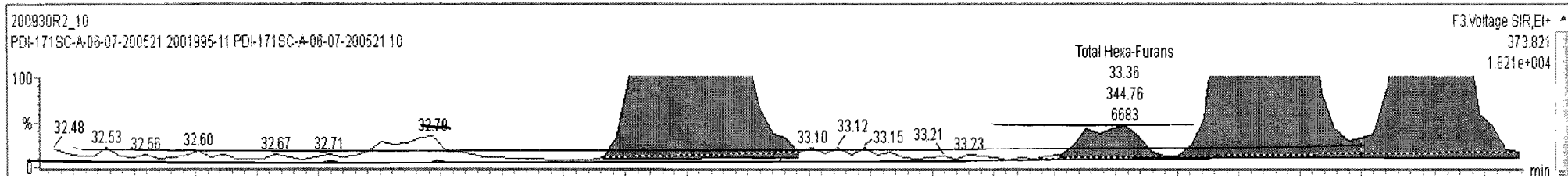
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	3.158e3	2.611e3	1.21	NO	1.5980	1.5980
2 Total Hexa-Furans	32.37	1.004e4	8.272e3	1.21	NO	5.0726	5.0726
3 Total Hexa-Furans	33.00	1.590e4	1.308e4	1.22	NO	8.0273	8.0273
4 1,2,3,4,7,8-HxCDF	33.48	8.083e3	6.754e3	1.20	NO	4.1842	4.1842
5 1,2,3,6,7,8-HxCDF	33.60	3.003e3	2.507e3	1.20	NO	1.4603	1.4603



200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

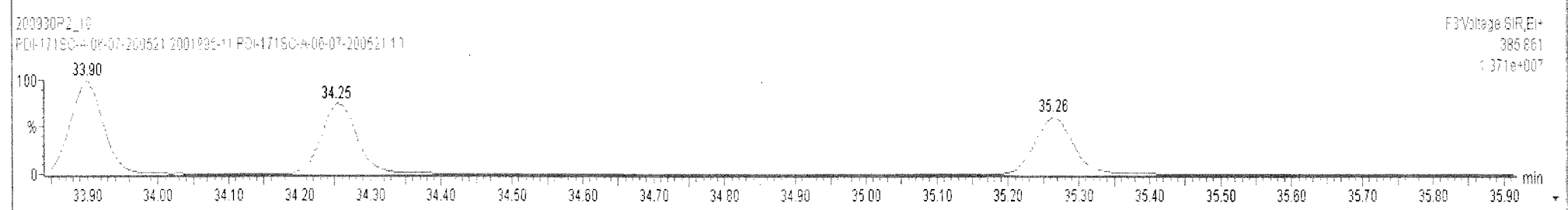
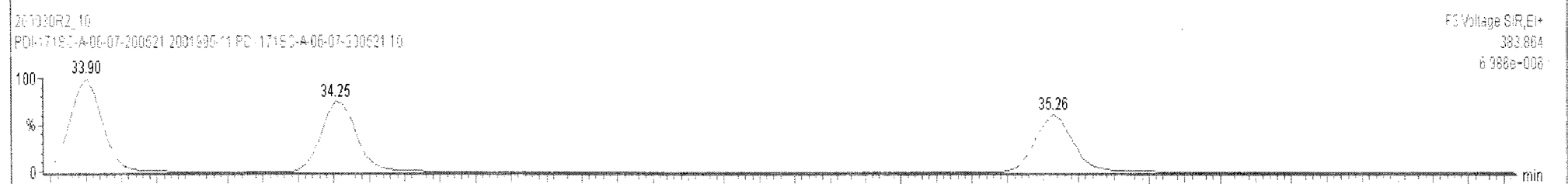
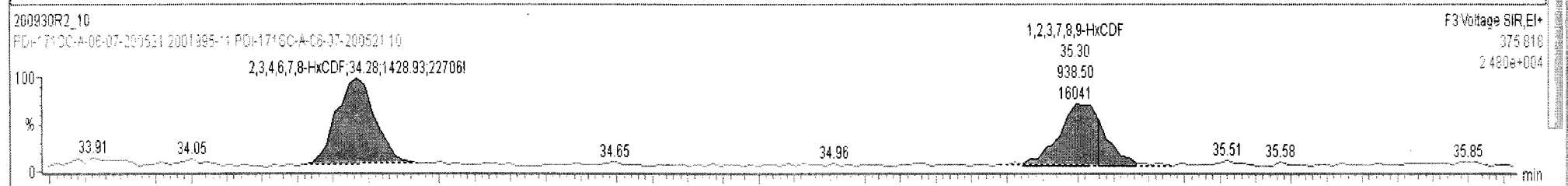
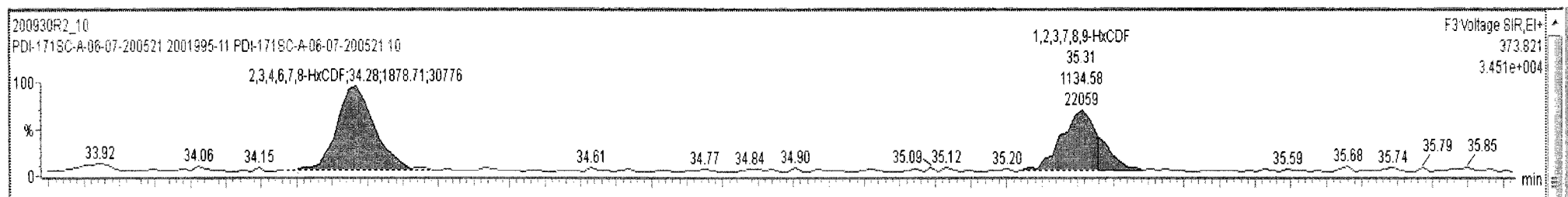
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.047			222		0.0961	22.2
47 Total Hepta-Furans				0.8908	10.047			48.4		0.238	48.4
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	3.158e3	2.611e3	1.21	NO	1.5980	1.5980
2 Total Hexa-Furans	32.37	1.004e4	8.272e3	1.21	NO	5.0726	5.0726
3 Total Hexa-Furans	33.00	1.590e4	1.308e4	1.22	NO	8.0273	8.0273
4 Total Hexa-Furans	33.36	3.448e2	2.756e2	1.25	NO	0.17182	0.17182



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9366	10.047			11.3		0.0733	11.7
46 Total Hexa-Furans				0.8699	10.047			22.0		0.0961	22.0
47 Total Hepta-Furans				0.8908	10.047			48.5		0.238	48.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
6 2,3,4,6,7,8-HxCDF	34.28	1.879e3	1.429e3	1.31	NO	0.86972	0.86972
7 1,2,3,7,8,9-HxCDF	35.31	1.135e3	9.385e2	1.21	NO	0.63435	0.63435
8 Total Hexa-Furans	35.33	2.956e2	2.463e2	1.20	NO	0.15010	0.15010



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Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

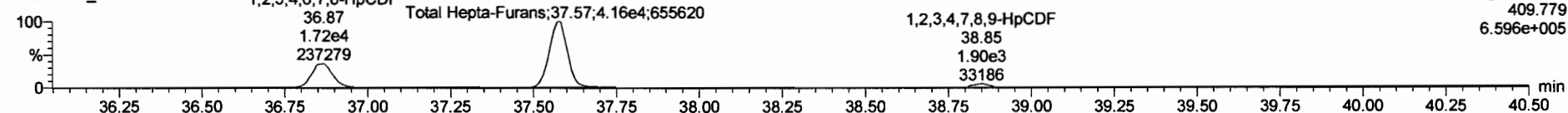
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**1,2,3,4,6,7,8-HpCDF**

200930R2\_10

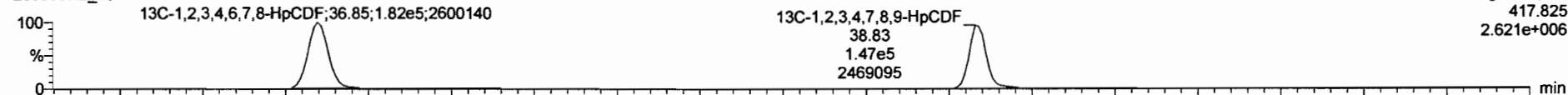


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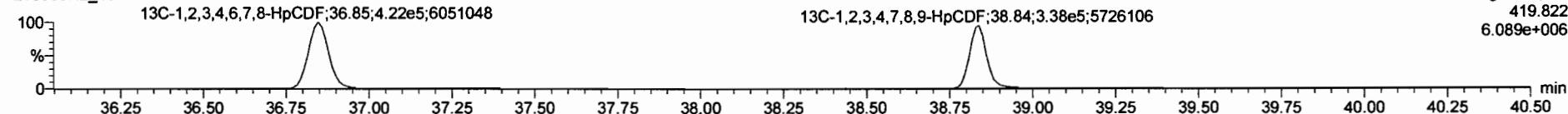


**13C-1,2,3,4,6,7,8-HpCDF**

200930R2\_10

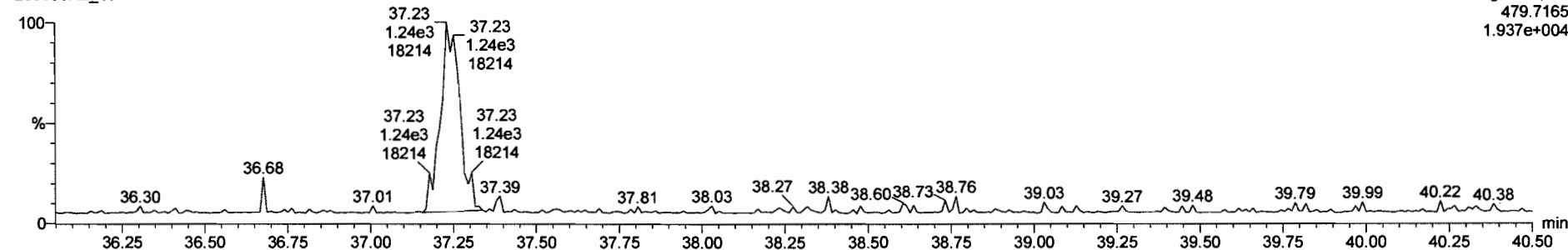


200930R2\_10



**DPE4**

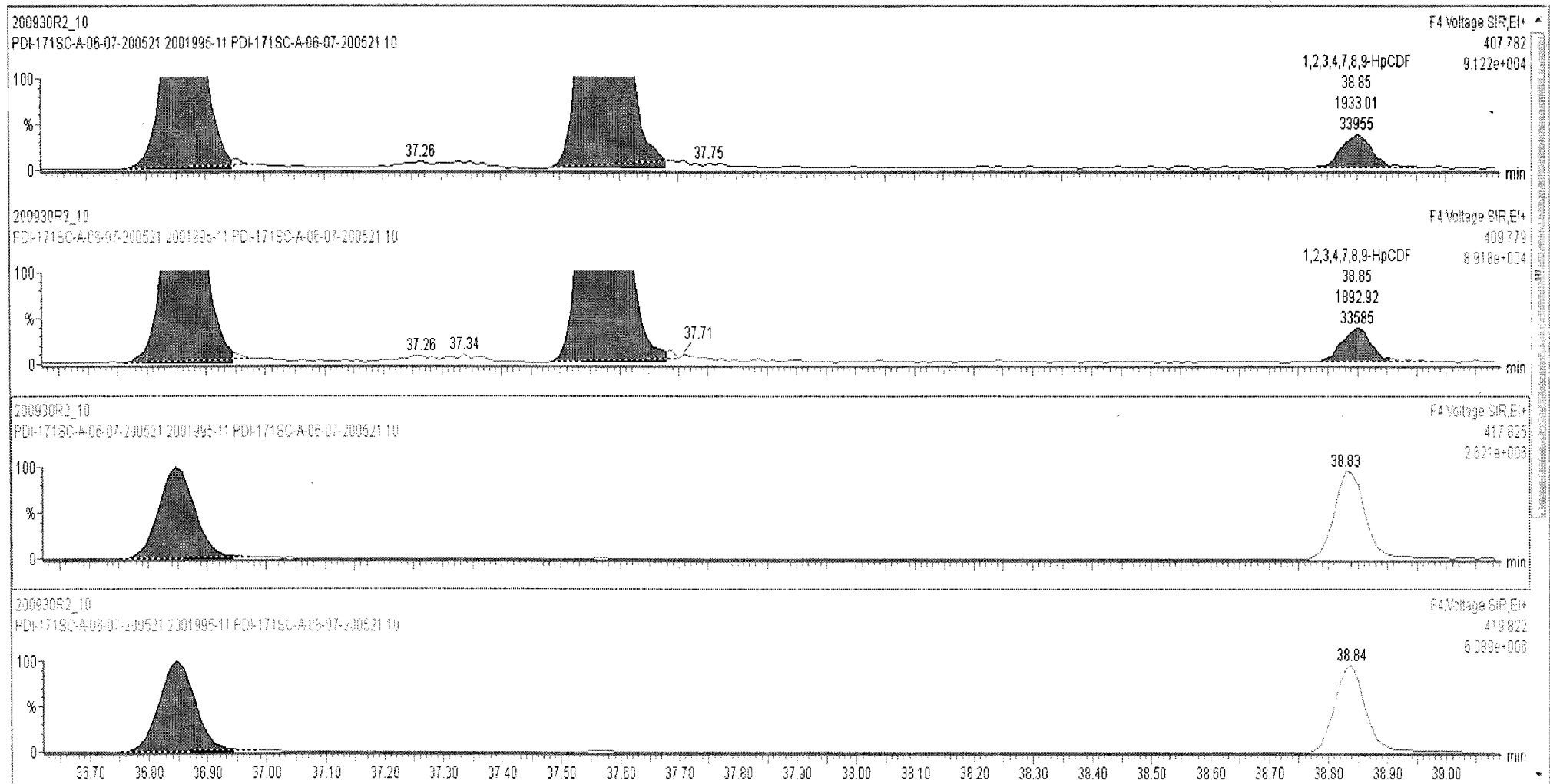
200930R2\_10



200930R2\_10 - 2001995-11 PDI-171SC-A-06-07-200521 10 - PDI-171SC-A-06-07-200521

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.047			22.0		0.0961	22.0
47 Total Hepta-Furans				0.8908	10.047			48.5		0.238	48.5
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.87	1.751e4	1.746e4	1.00	NO	12.803	12.803
2 Total Hepta-Furans	37.57	4.197e4	4.168e4	1.01	NO	34.126	34.126
3 1,2,3,4,7,8,9-HpCDF	38.85	1.933e3	1.893e3	1.02	NO	1.5701	1.5701



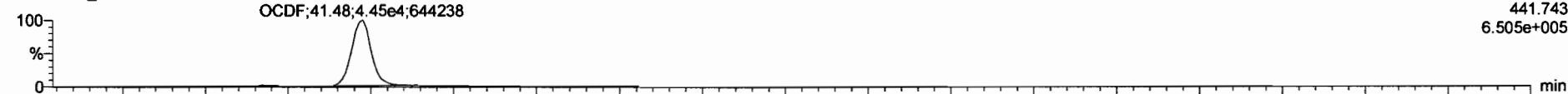
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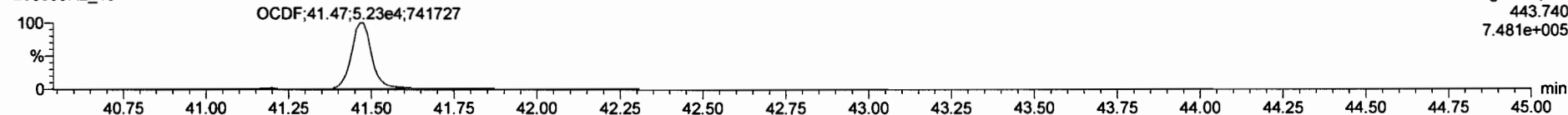
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**OCDF**

200930R2\_10



200930R2\_10

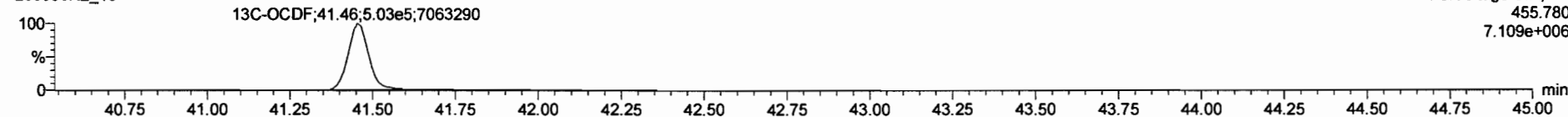


**13C-OCDF**

200930R2\_10

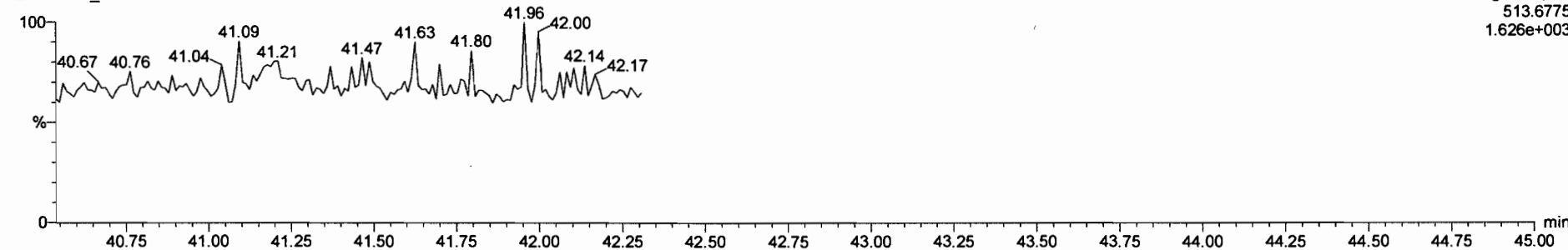


200930R2\_10



**DPE5**

200930R2\_10

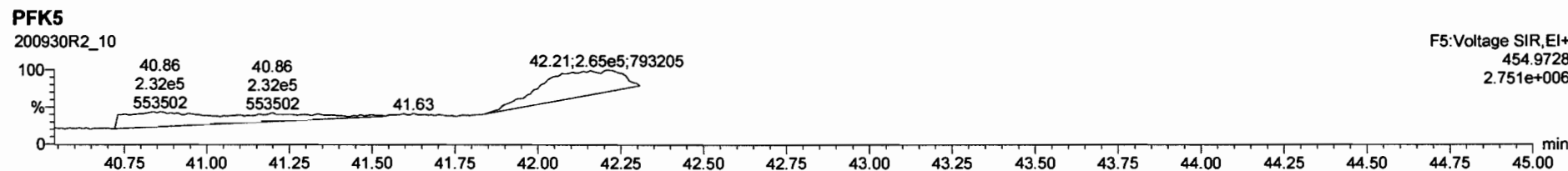
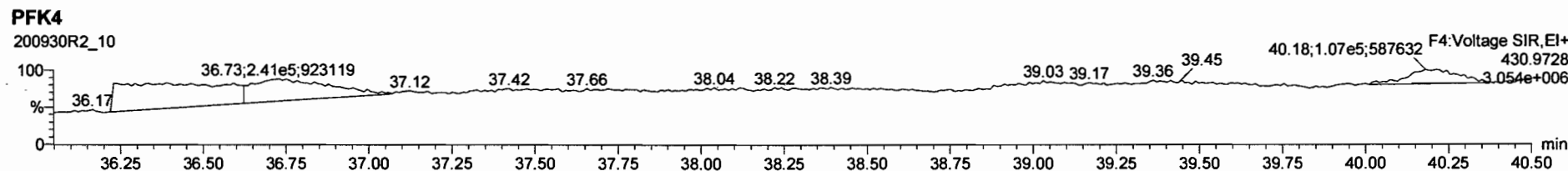
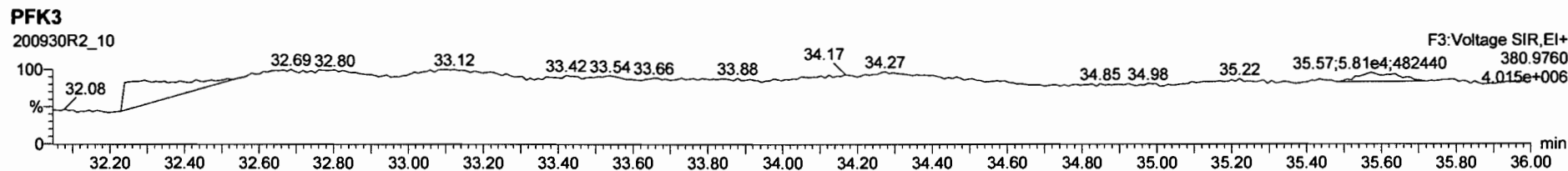
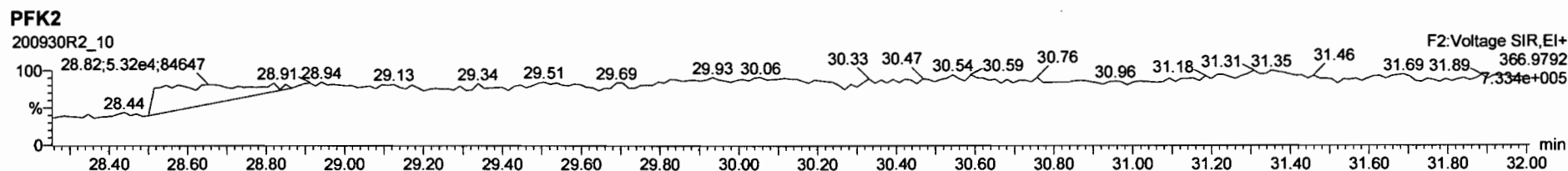
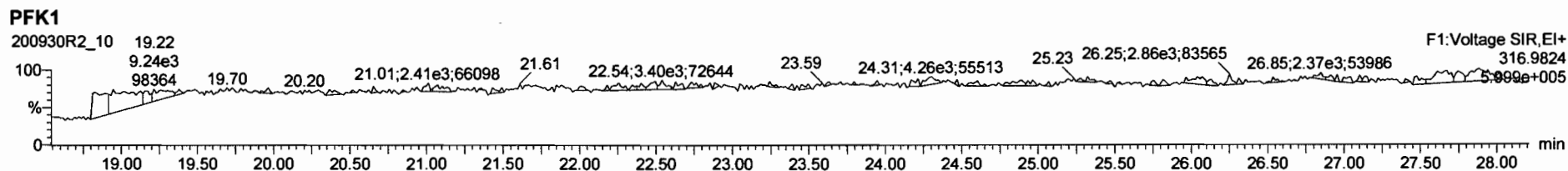


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10/22/20*

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	1.02	10.074	26.448		1.001				0.0306	
2	2 1,2,3,7,8-PeCDD			NO	0.956	10.074	31.070		1.001				0.0530	
3	3 1,2,3,4,7,8-HxCDD	5.03e2	1.38	NO	1.00	10.074	34.369	34.39	1.000	1.001	0.12592		0.0911	0.126
4	4 1,2,3,6,7,8-HxCDD	2.35e3	1.24	NO	0.888	10.074	34.476	34.51	1.000	1.001	0.60201		0.0956	0.602
5	5 1,2,3,7,8,9-HxCDD	1.42e3	1.33	NO	0.909	10.074	34.763	34.77	1.000	1.001	0.36142		0.0980	0.361
6	6 1,2,3,4,6,7,8-HpCDD	9.86e4	1.02	NO	0.832	10.074	38.211	38.21	1.000	1.000	33.466		0.301	33.5
7	7 OCDD	5.75e5	0.87	NO	0.862	10.074	41.136	41.15	1.000	1.000	239.28		0.726	239
8	8 2,3,7,8-TCDF	1.91e3	0.89	YES	0.735	10.074	25.770	25.77	1.000	1.001	0.29922		0.0334	0.281
9	9 1,2,3,7,8-PeCDF	1.80e3	1.42	NO	0.939	10.074	29.833	29.83	1.001	1.001	0.25654		0.0283	0.257
10	10 2,3,4,7,8-PeCDF	1.68e3	1.60	NO	1.05	10.074	30.880	30.88	1.001	1.001	0.21769		0.0258	0.218
11	11 1,2,3,4,7,8-HxCDF	2.31e3	1.25	NO	0.842	10.074	33.443	33.46	1.000	1.001	0.55767		0.0433	0.558
12	12 1,2,3,6,7,8-HxCDF	6.51e2	1.40	NO	0.894	10.074	33.592	33.60	1.000	1.001	0.15045		0.0415	0.150
13	13 2,3,4,6,7,8-HxCDF	4.94e2	1.43	YES	0.870	10.074	34.273	34.27	1.001	1.001	0.12223		0.0494	0.113
14	14 1,2,3,7,8,9-HxCDF	4.36e2	1.04	YES	0.855	10.074	35.275	35.28	1.001	1.001	0.12395		0.0599	0.114
15	15 1,2,3,4,6,7,8-HpCDF	8.68e3	1.02	NO	0.891	10.074	36.874	36.85	1.001	1.000	2.7695		0.0910	2.77
16	16 1,2,3,4,7,8,9-HpCDF	5.84e2	0.91	NO	1.00	10.074	38.818	38.83	1.000	1.000	0.21522		0.0847	0.215
17	17 OCDF	1.63e4	0.80	NO	0.784	10.074	41.424	41.43	1.000	1.000	7.4307		0.149	7.43
18	18 13C-2,3,7,8-TCDD	1.33e6	0.78	NO	1.15	10.074	26.405	26.42	1.029	1.029	199.39	100	0.177	
19	19 13C-1,2,3,7,8-PeCDD	1.11e6	0.63	NO	0.887	10.074	30.994	31.05	1.207	1.210	215.57	109	0.123	
20	20 13C-1,2,3,4,7,8-HxCDD	7.91e5	1.28	NO	0.801	10.074	34.361	34.36	1.014	1.014	200.50	101	0.357	
21	21 13C-1,2,3,6,7,8-HxCDD	8.74e5	1.25	NO	0.892	10.074	34.490	34.48	1.018	1.017	198.87	100	0.321	
22	22 13C-1,2,3,7,8,9-HxCDD	8.57e5	1.26	NO	0.882	10.074	34.751	34.75	1.025	1.025	197.11	99.3	0.324	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.04e5	1.03	NO	0.719	10.074	38.184	38.20	1.127	1.127	198.71	100	0.489	
24	24 13C-OCDD	1.11e6	0.91	NO	0.563	10.074	41.112	41.14	1.213	1.214	399.06	101	0.719	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.01	10.074	25.748	25.76	1.003	1.003	206.82	104	0.179	
26	26 13C-1,2,3,7,8-PeCDF	1.48e6	1.60	NO	0.814	10.074	29.754	29.81	1.159	1.161	219.93	111	0.403	
27	27 13C-2,3,4,7,8-PeCDF	1.46e6	1.57	NO	0.768	10.074	30.791	30.85	1.200	1.202	230.69	116	0.427	
28	28 13C-1,2,3,4,7,8-HxCDF	9.77e5	0.50	NO	0.993	10.074	33.439	33.44	0.987	0.987	199.80	101	0.366	
29	29 13C-1,2,3,6,7,8-HxCDF	9.61e5	0.52	NO	0.990	10.074	33.582	33.58	0.991	0.991	197.00	99.2	0.367	
30	30 13C-2,3,4,6,7,8-HxCDF	9.22e5	0.51	NO	0.944	10.074	34.249	34.25	1.011	1.011	198.30	99.9	0.385	

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-11.qld

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Name: 200930R2\_11, Date: 01-Oct-2020, Time: 05:15:54, ID: 2001995-12 PDI-173SC-A-01-02-200521 10, Description: PDI-173SC-A-01-02-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	8.17e5	0.51	NO	0.842	10.074	35.266	35.25	1.041	1.040	197.06	99.3	0.432	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.99e5	0.44	NO	0.687	10.074	36.855	36.84	1.087	1.087	206.61	104	0.475	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.39e5	0.43	NO	0.555	10.074	38.804	38.82	1.145	1.145	197.22	99.3	0.588	
34	34 13C-OCDF	1.11e6	0.88	NO	0.608	10.074	41.393	41.42	1.221	1.222	369.83	93.1	0.571	
35	35 37Cl-2,3,7,8-TCDD	4.87e5			1.18	10.074	26.435	26.45	1.030	1.030	71.317	89.8	0.0319	
36	36 13C-1,2,3,4-TCDD	1.15e6	0.78	NO	1.00	10.074	25.740	25.67	1.000	1.000	198.52	100	0.204	
37	37 13C-1,2,3,4-TCDF	1.64e6	0.78	NO	1.00	10.074	24.310	24.22	1.000	1.000	198.52	100	0.180	
38	38 13C-1,2,3,4,6,9-HxCDF	9.78e5	0.51	NO	1.00	10.074	33.920	33.89	1.000	1.000	198.52	100	0.364	
39	39 Total Tetra-Dioxins				1.02	10.074	24.620		0.000		0.13086		0.0306	0.131
40	40 Total Penta-Dioxins				0.956	10.074	29.960		0.000		0.59232		0.0530	0.592
41	41 Total Hexa-Dioxins				0.888	10.074	33.635		0.000		8.4152		0.0994	8.56
42	42 Total Hepta-Dioxins				0.832	10.074	37.640		0.000		76.637		0.301	76.6
43	43 Total Tetra-Furans				0.735	10.074	23.610		0.000		0.48307		0.0334	0.871
44	44 1st Func. Penta-Furans				0.939	10.074	27.230		0.000		0.49949		0.0131	0.499
45	45 Total Penta-Furans				0.939	10.074	29.275		0.000		0.79724		0.0286	0.903
46	46 Total Hexa-Furans				0.870	10.074	33.555		0.000		2.9373		0.0478	3.16
47	47 Total Hepta-Furans				0.891	10.074	37.835		0.000		8.1804		0.0928	8.18

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-11.qld

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Name: 200930R2\_11, Date: 01-Oct-2020, Time: 05:15:54, ID: 2001995-12 PDI-173SC-A-01-02-200521 10, Description: PDI-173SC-A-01-02-200521

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	26.16	4.766e3	7.410e3	3.622e2	5.293e2	0.68	NO	8.915e2	0.13086	0.13086	0.0306

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	28.81	7.647e3	1.115e4	6.131e2	8.957e2	0.68	NO	1.509e3	0.28284	0.28284	0.0530
2	Total Penta-Dioxins	29.31	5.650e3	6.926e3	2.362e2	3.904e2	0.61	NO	6.265e2	0.11745	0.11745	0.0530
3	Total Penta-Dioxins	30.28	5.317e3	1.022e4	3.638e2	6.605e2	0.55	NO	1.024e3	0.19202	0.19202	0.0530

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.72	1.625e5	1.321e5	7.820e3	6.508e3	1.20	NO	1.433e4	3.8116	3.8116	0.0994
2	Total Hexa-Dioxins	33.33	1.660e4	1.065e4	8.393e2	6.692e2	1.25	NO	1.509e3	0.40129	0.40129	0.0994
3	Total Hexa-Dioxins	33.61	8.585e4	6.481e4	5.968e3	4.793e3	1.25	NO	1.076e4	2.8625	2.8625	0.0994
4	Total Hexa-Dioxins	33.71	1.196e4	9.236e3	5.279e2	4.139e2	1.28	NO	9.418e2	0.25055	0.25055	0.0994
5	1,2,3,4,7,8-HxCDD	34.39	5.016e3	4.060e3	2.919e2	2.108e2	1.38	NO	5.028e2	0.12592	0.12592	0.0911
6	1,2,3,6,7,8-HxCDD	34.51	2.168e4	1.820e4	1.302e3	1.050e3	1.24	NO	2.352e3	0.60201	0.60201	0.0956
7	Total Hexa-Dioxins	34.65	5.604e3	8.060e3	3.088e2	3.316e2	0.93	YES	0.000e0	0.00000	0.14838	0.0994
8	1,2,3,7,8,9-HxCDD	34.77	1.322e4	1.059e4	8.083e2	6.098e2	1.33	NO	1.418e3	0.36142	0.36142	0.0980

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.24	8.396e5	8.080e5	6.433e4	6.291e4	1.02	NO	1.272e5	43.171	43.171	0.301
2	1,2,3,4,6,7,8-HpCDD	38.21	8.412e5	8.291e5	4.991e4	4.873e4	1.02	NO	9.864e4	33.466	33.466	0.301

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**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.90	5.679e3	6.714e3	3.958e2	5.228e2	0.76	NO	9.186e2	0.14372	0.14372	0.0334
2	Total Tetra-Furans	22.78	4.228e3	5.919e3	2.980e2	5.073e2	0.59	YES	0.000e0	0.00000	0.10719	0.0334
3	Total Tetra-Furans	23.26	2.633e3	3.434e3	2.410e2	2.959e2	0.81	NO	5.369e2	0.084003	0.084003	0.0334
4	Total Tetra-Furans	24.75	8.788e3	1.447e4	7.443e2	8.877e2	0.84	NO	1.632e3	0.25534	0.25534	0.0334
5	2,3,7,8-TCDF	25.77	1.436e4	1.616e4	8.990e2	1.013e3	0.89	YES	1.912e3	0.00000	0.28067	0.0334

**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	27.24	3.732e4	2.332e4	2.118e3	1.359e3	1.56	NO	3.476e3	0.49949	0.49949	0.0131

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.83	2.094e4	1.243e4	1.372e3	8.762e2	1.57	NO	2.248e3	0.32301	0.32301	0.0286
2	1,2,3,7,8-PeCDF	29.83	2.134e4	1.607e4	1.052e3	7.430e2	1.42	NO	1.795e3	0.25654	0.25654	0.0283
3	Total Penta-Furans	30.07	1.172e4	8.404e3	4.468e2	3.458e2	1.29	YES	0.000e0	0.00000	0.10562	0.0286
4	2,3,4,7,8-PeCDF	30.88	2.112e4	1.518e4	1.037e3	6.483e2	1.60	NO	1.685e3	0.21769	0.21769	0.0258

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.20	1.160e4	8.920e3	5.507e2	4.837e2	1.14	NO	1.034e3	0.25685	0.25685	0.0478
2	Total Hexa-Furans	32.36	3.065e4	2.774e4	1.490e3	1.401e3	1.06	NO	2.891e3	0.71790	0.71790	0.0478
3	Total Hexa-Furans	32.99	5.620e4	4.507e4	2.713e3	2.239e3	1.21	NO	4.952e3	1.2297	1.2297	0.0478
4	1,2,3,4,7,8-HxCDF	33.46	2.503e4	2.000e4	1.282e3	1.028e3	1.25	NO	2.310e3	0.55767	0.55767	0.0433
5	1,2,3,6,7,8-HxCDF	33.60	8.779e3	5.955e3	3.792e2	2.714e2	1.40	NO	6.506e2	0.15045	0.15045	0.0415
6	2,3,4,6,7,8-HxCDF	34.27	4.897e3	3.833e3	2.906e2	2.032e2	1.43	YES	4.939e2	0.00000	0.11267	0.0494
7	1,2,3,7,8,9-HxCDF	35.28	4.202e3	4.902e3	2.223e2	2.138e2	1.04	YES	4.361e2	0.00000	0.11416	0.0599
8	Total Hexa-Furans	35.33	2.070e3	1.550e3	5.615e1	4.363e1	1.29	NO	9.978e1	0.024778	0.024778	0.0478

Vista Analytical Laboratory

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.85	5.923e4	5.877e4	4.387e3	4.297e3	1.02	NO	8.684e3	2.7695	2.7695	0.0910
2	Total Hepta-Furans	37.56	1.116e5	1.042e5	7.318e3	7.105e3	1.03	NO	1.442e4	5.1956	5.1956	0.0928
3	1,2,3,4,7,8,9-HpCDF	38.83	5.456e3	5.658e3	2.775e2	3.064e2	0.91	NO	5.839e2	0.21522	0.21522	0.0847

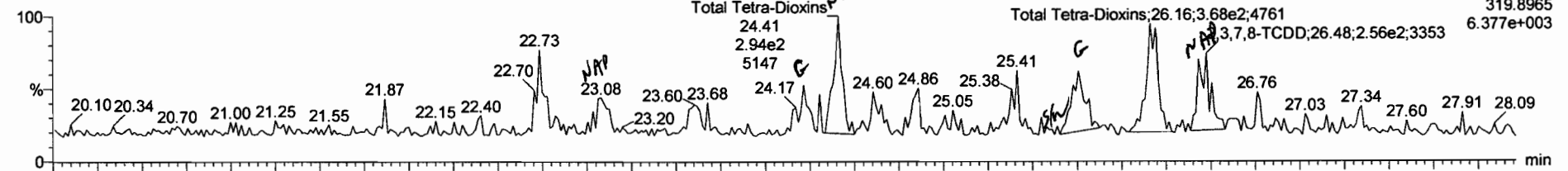
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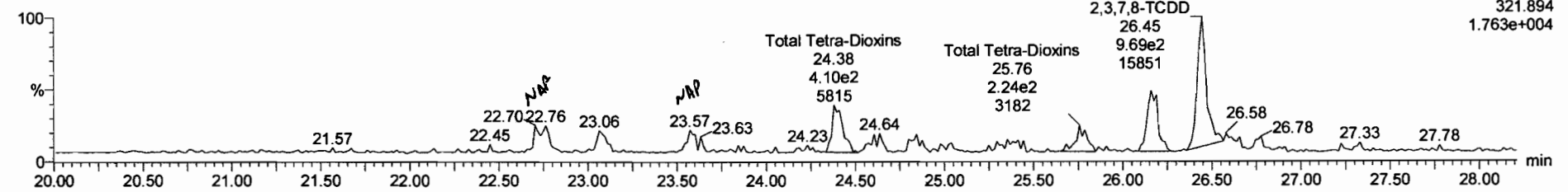
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**2,3,7,8-TCDD**

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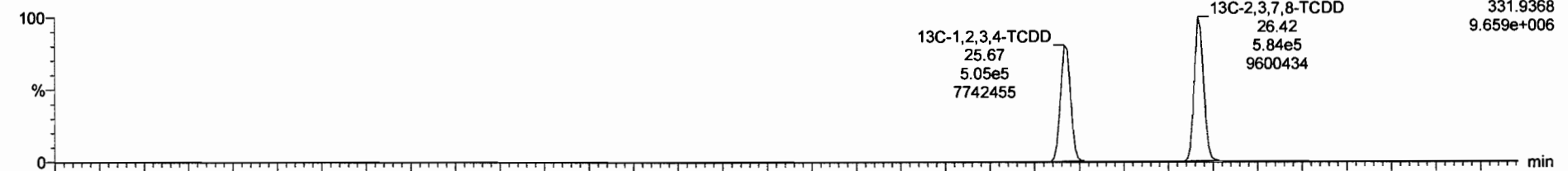


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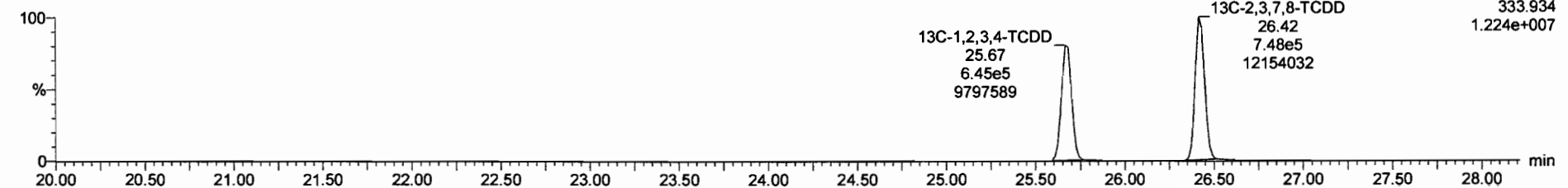


**13C-2,3,7,8-TCDD**

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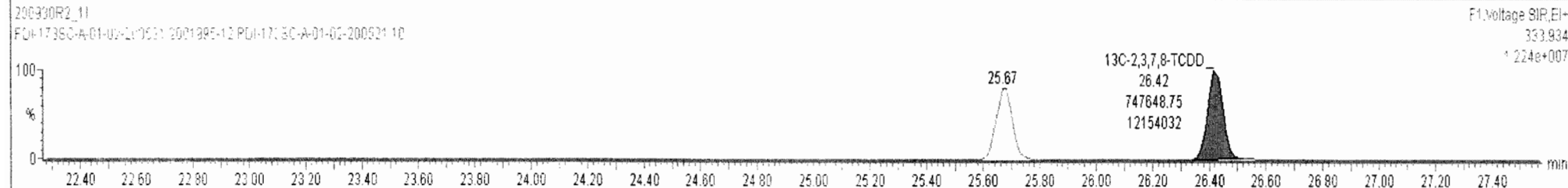
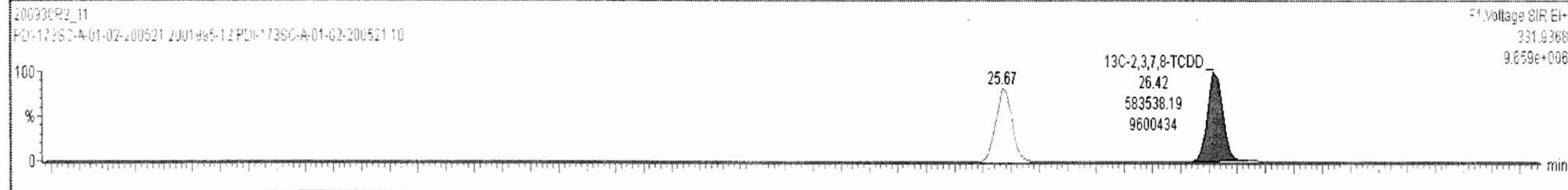
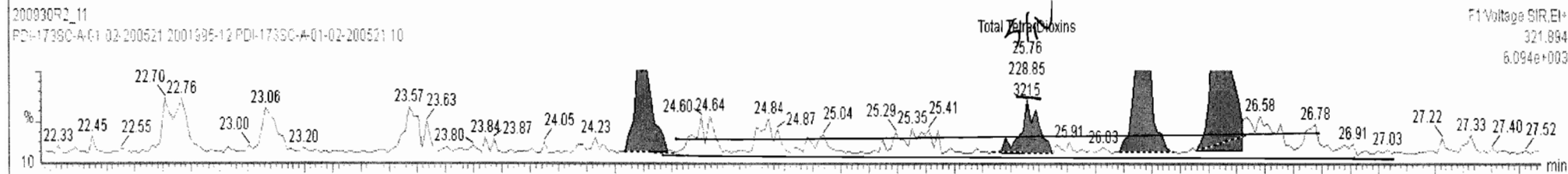
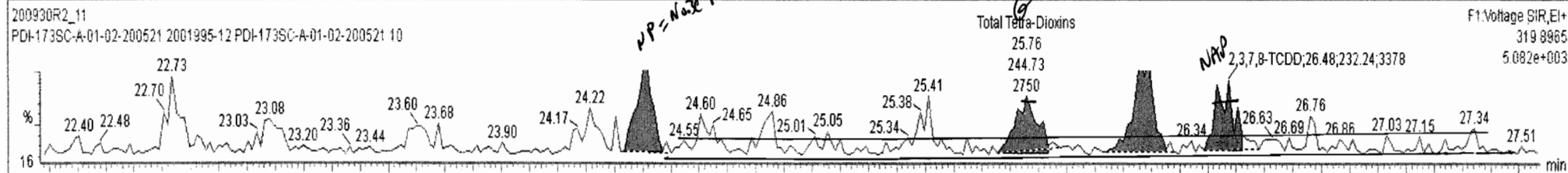
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Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.074			0.231		0.0306	0.368
40 Total Penta-Dioxins				0.9561	10.074			0.613		0.0530	0.722
41 Total Hexa-Dioxins				0.8879	10.074			0.45		0.0894	0.601

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	24.41	2.843e2	3.953e2	0.72	NO	0.099749	0.099749
2 Total Tetra-Dioxins	25.76	2.447e2	2.289e2	1.07	YES	0.059457	0.00000
3 Total Tetra-Dioxins	26.16	3.622e2	5.293e2	0.68	NO	0.13086	0.13086
4 2,3,7,8-TCDD	26.48	2.322e2	1.010e3	0.23	YES	0.078360	0.00000



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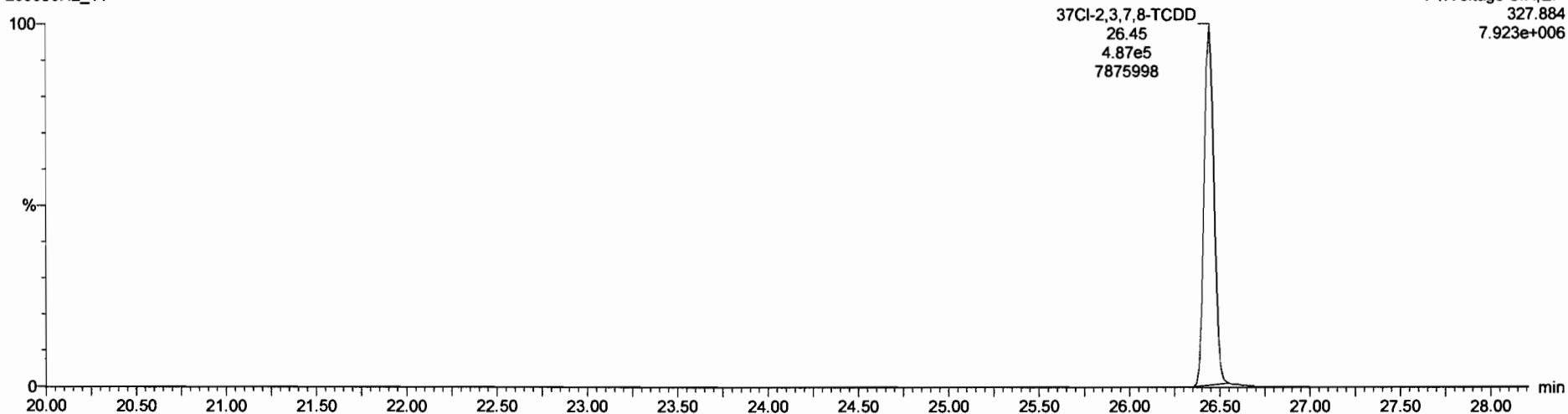
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**37Cl-2,3,7,8-TCDD**

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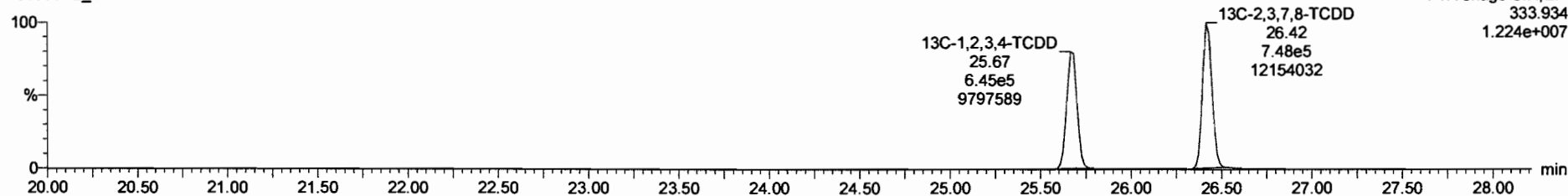


**13C-1,2,3,4-TCDD**

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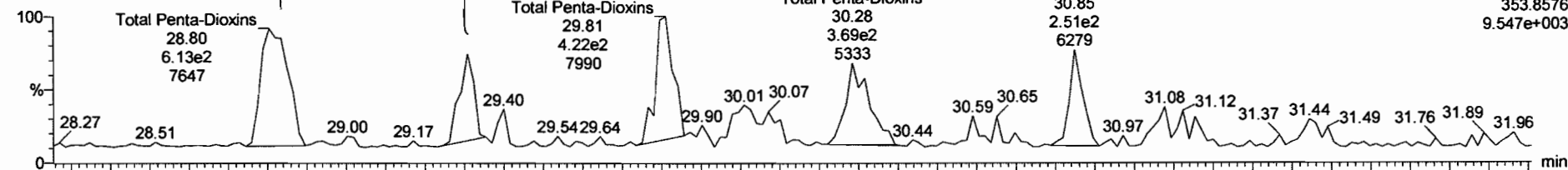
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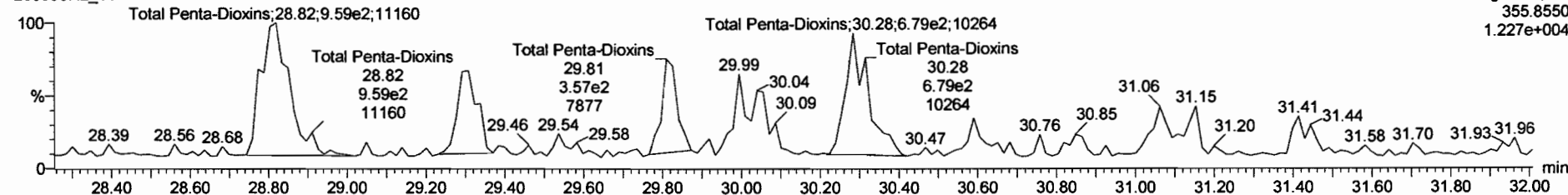
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1,2,3,7,8-PeCDD

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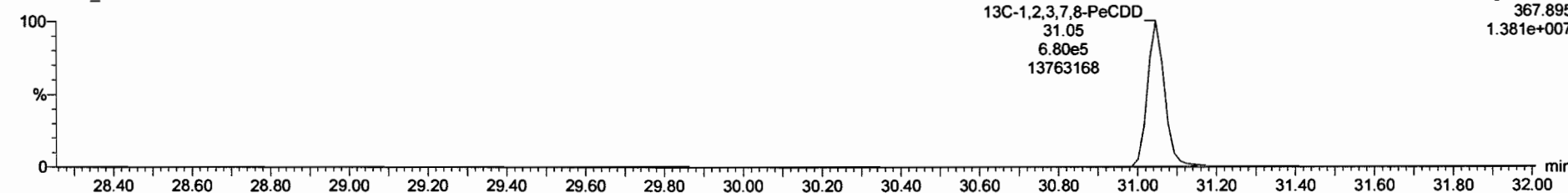


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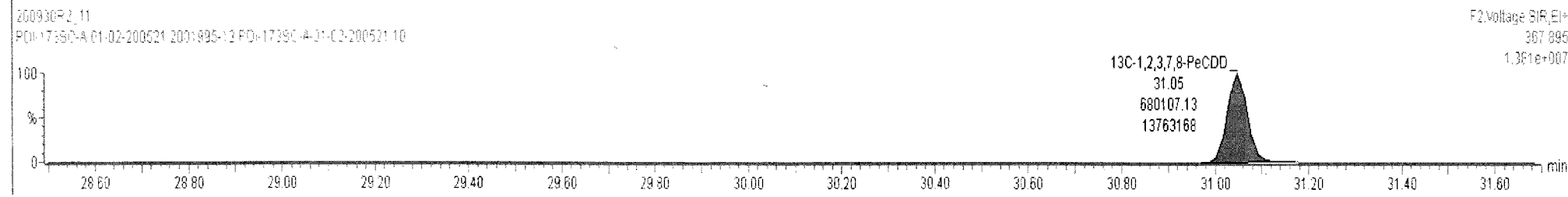
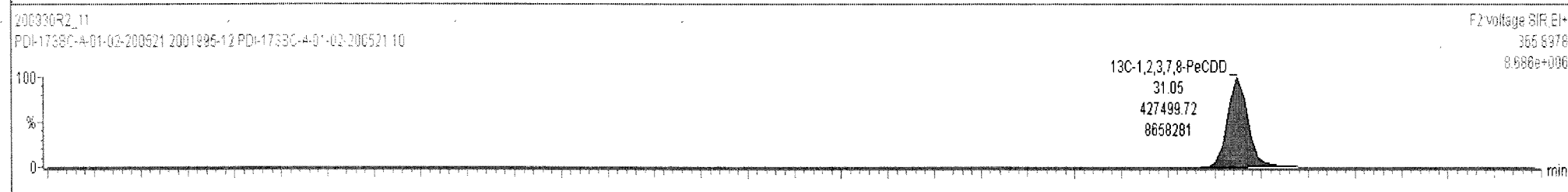
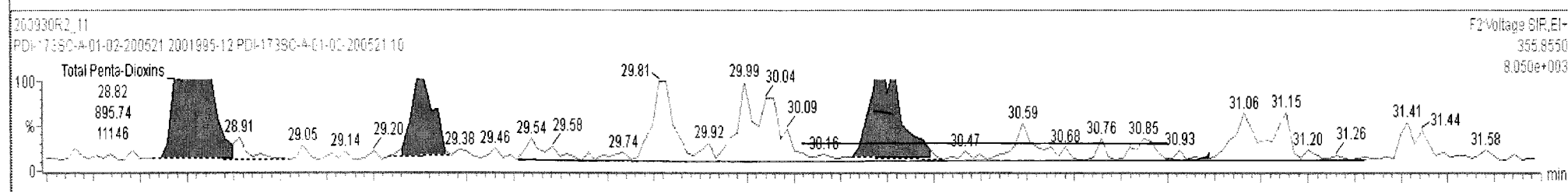
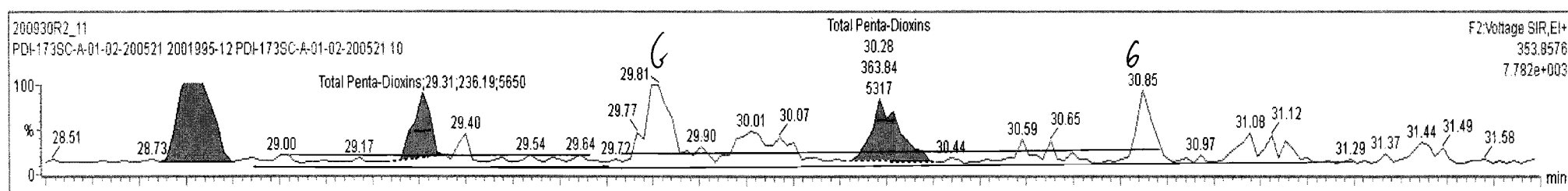
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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.074			0.131		0.0306	0.131
40 Total Penta-Dioxins				0.9561	10.074			0.592		0.0530	0.592
41 Total Hexa-Dioxins				0.8879	10.074			8.45		0.0994	8.60

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	26.81	6.131e2	8.957e2	0.68	NO	0.26264	0.26264
2 Total Penta-Dioxins	29.31	2.362e2	3.904e2	0.61	NO	0.11745	0.11745
3 Total Penta-Dioxins	30.28	3.638e2	6.605e2	0.55	NO	0.19202	0.19202



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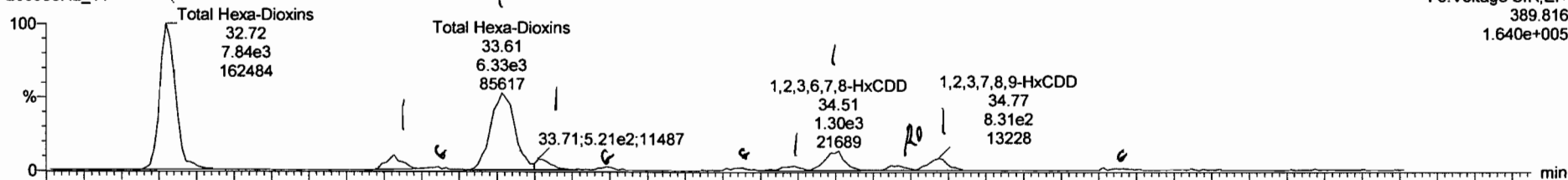
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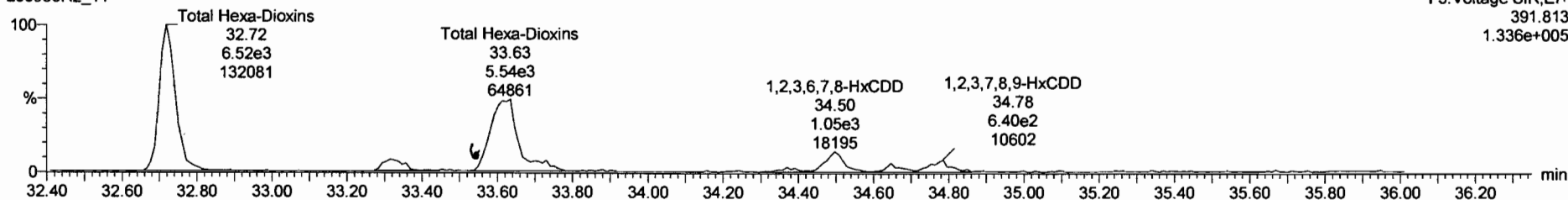
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**1,2,3,4,7,8-HxCDD**

200930R2\_11

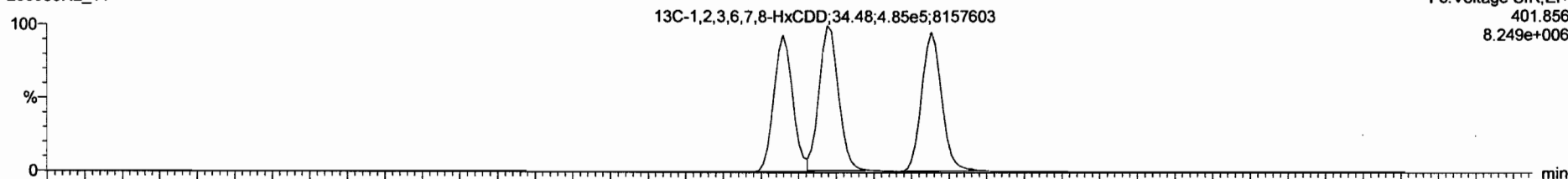


200930R2\_11

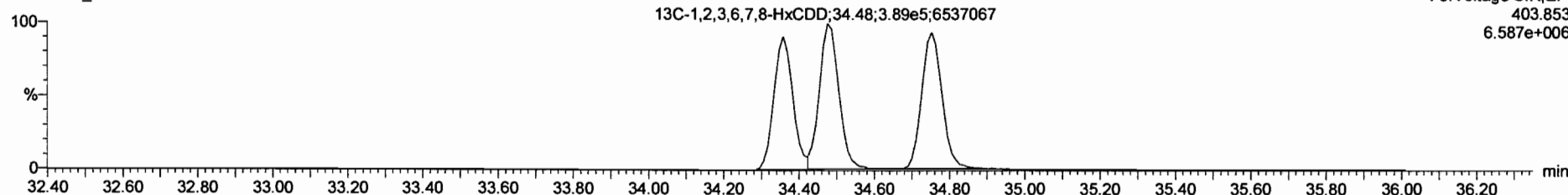


**13C-1,2,3,4,7,8-HxCDD**

200930R2\_11



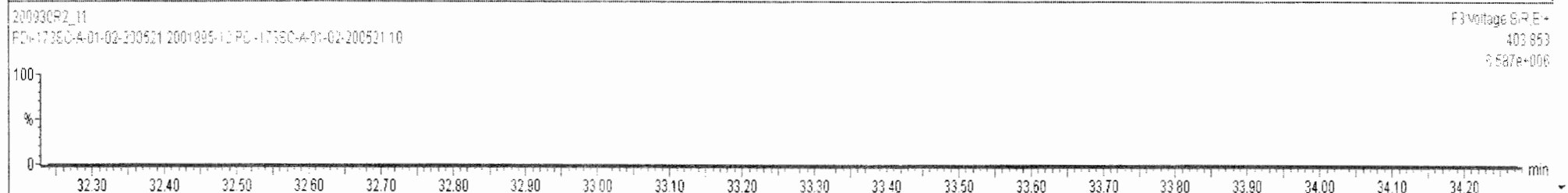
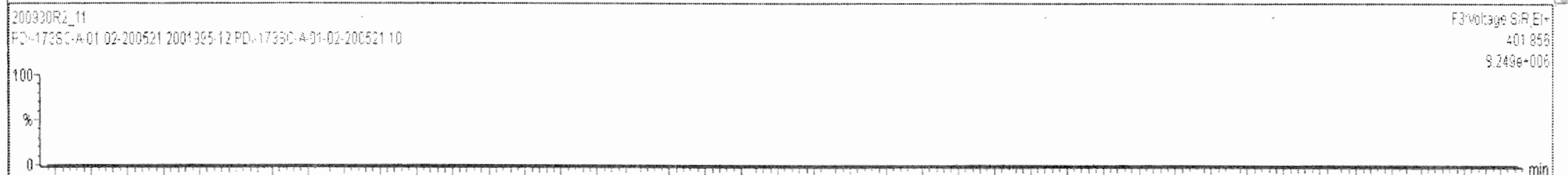
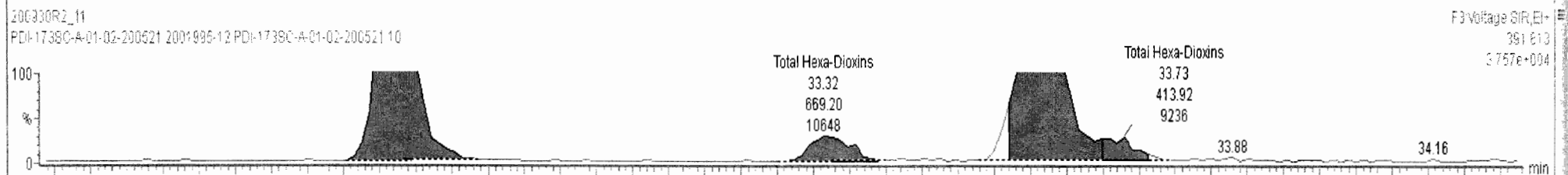
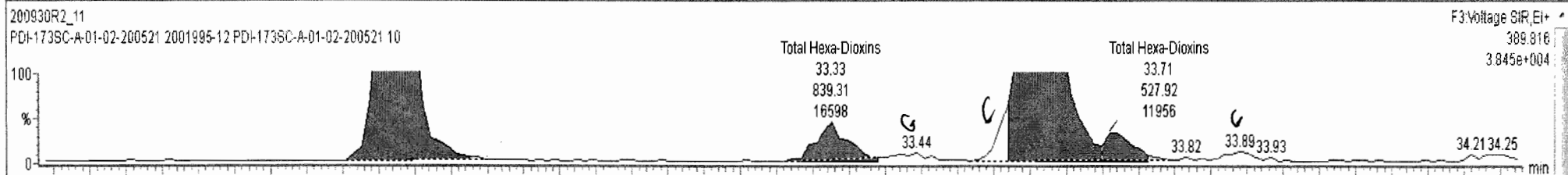
200930R2\_11



200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.074			0.131		0.0306	0.131
40 Total Penta-Dioxins				0.9561	10.074			0.592		0.0530	0.592
41 Total Hexa-Dioxins				0.8879	10.074			0.291		0.0994	0.291

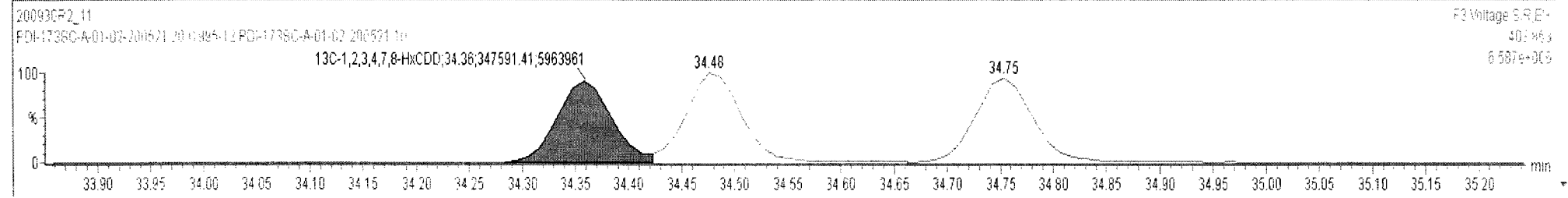
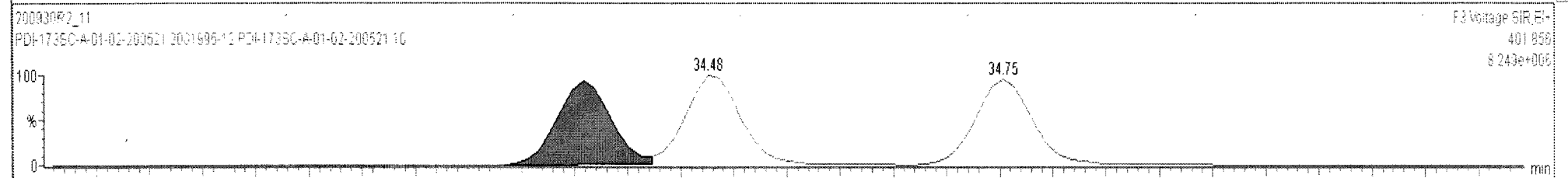
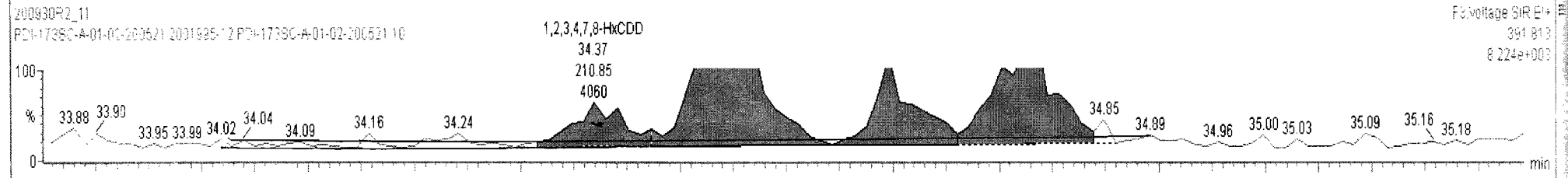
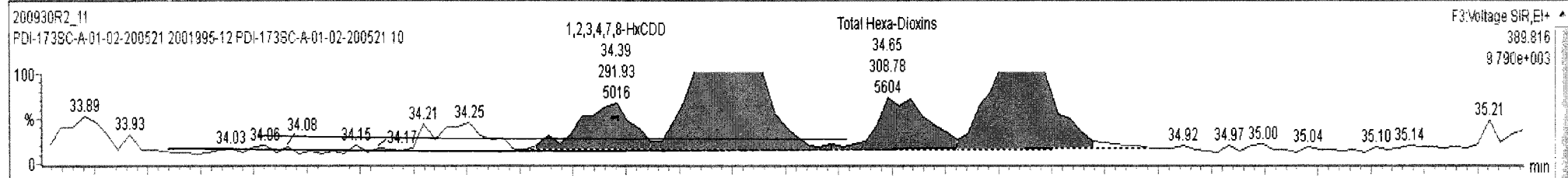
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.72	7.820e3	6.508e3	1.20	NO	3.8116	3.8116
2 Total Hexa-Dioxins	33.33	8.393e2	6.692e2	1.25	NO	0.40129	0.40129
3 Total Hexa-Dioxins	33.61	5.968e3	4.793e3	1.25	NO	2.8625	2.8625
4 Total Hexa-Dioxins	33.71	5.279e2	4.139e2	1.28	NO	0.25055	0.25055



200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/wd	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.074			0.131		0.0306	0.131
40 Total Penta-Dioxins				0.9561	10.074			0.592		0.0530	0.592
41 Total Hexa-Dioxins				0.8879	10.074			8.42		0.0894	8.56

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.72	7.820e3	6.508e3	1.20	NO	3.8116	3.8116
2 Total Hexa-Dioxins	33.33	8.393e2	6.692e2	1.25	NO	0.40129	0.40129
3 Total Hexa-Dioxins	33.61	5.968e3	4.793e3	1.25	NO	2.8625	2.8625
4 Total Hexa-Dioxins	33.71	5.279e2	4.139e2	1.28	NO	0.25055	0.25055



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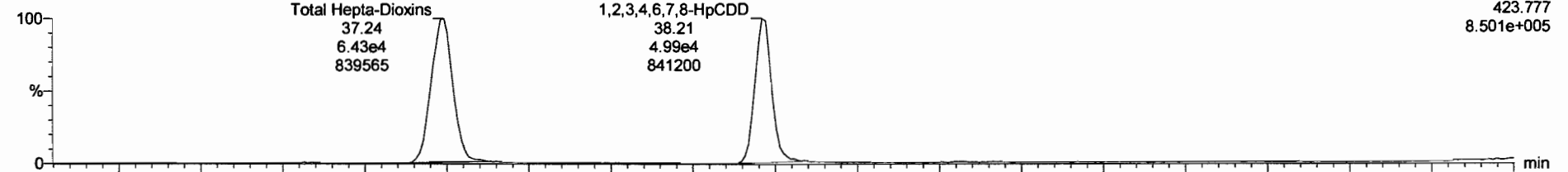
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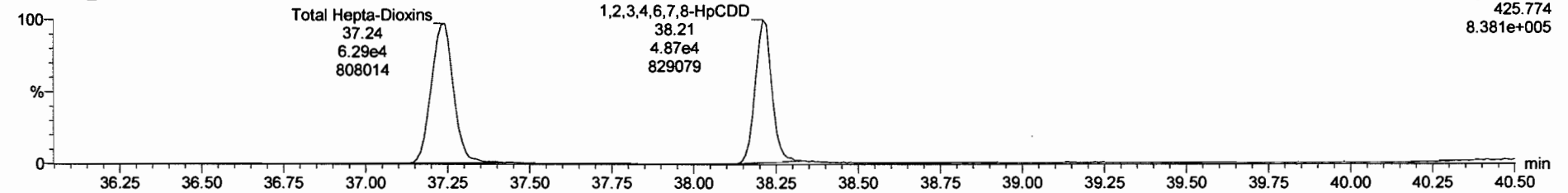
1,2,3,4,6,7,8-HpCDD

200930R2\_11



F4: Voltage SIR, EI+  
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8.501e+005

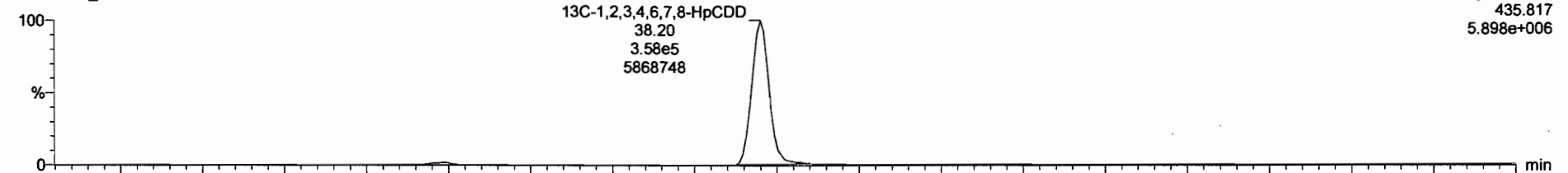
200930R2\_11



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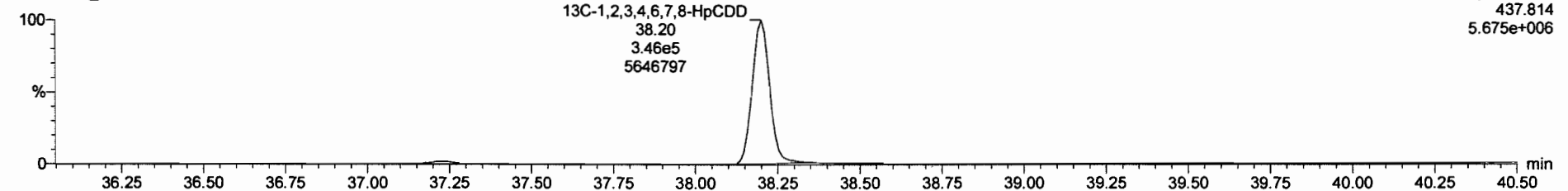
13C-1,2,3,4,6,7,8-HpCDD

200930R2\_11



F4: Voltage SIR, EI+  
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200930R2\_11



F4: Voltage SIR, EI+  
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5.675e+006

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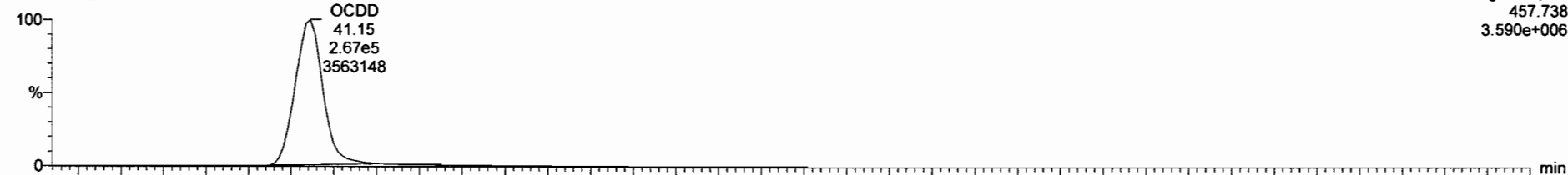
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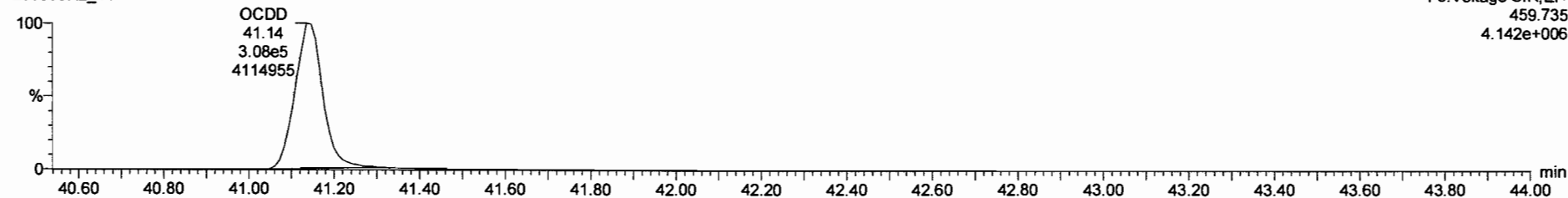
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**OCDD**

200930R2\_11



200930R2\_11

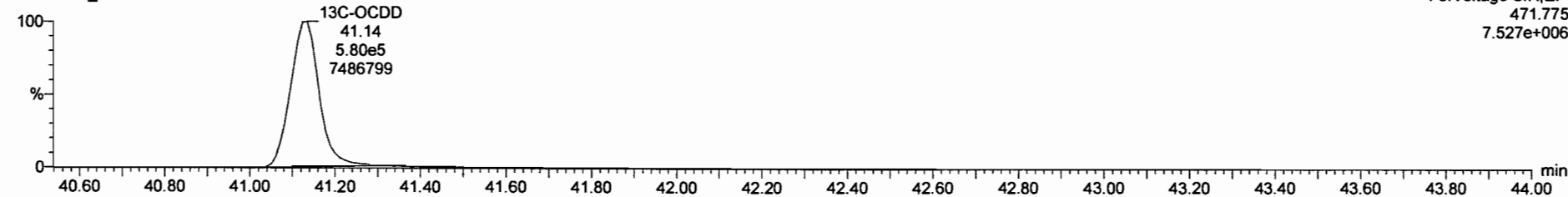


**13C-OCDD**

200930R2\_11



200930R2\_11



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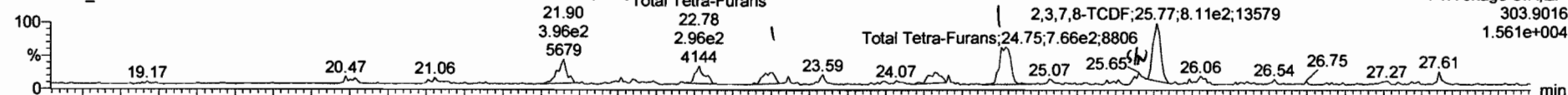
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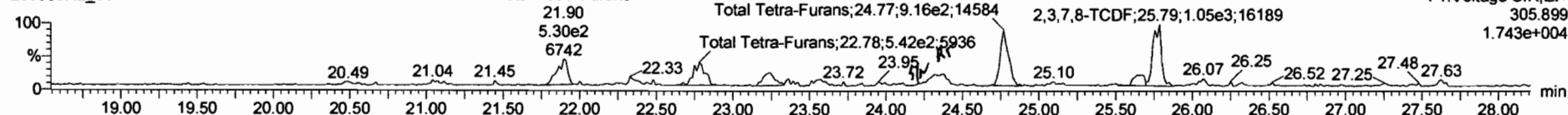
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**2,3,7,8-TCDF**

200930R2\_11

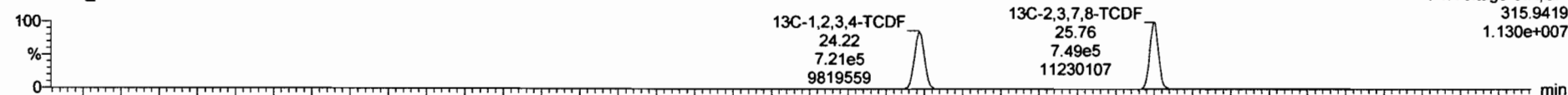


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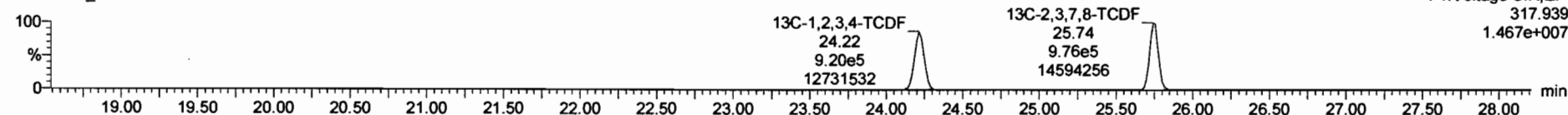


**13C-2,3,7,8-TCDF**

200930R2\_11

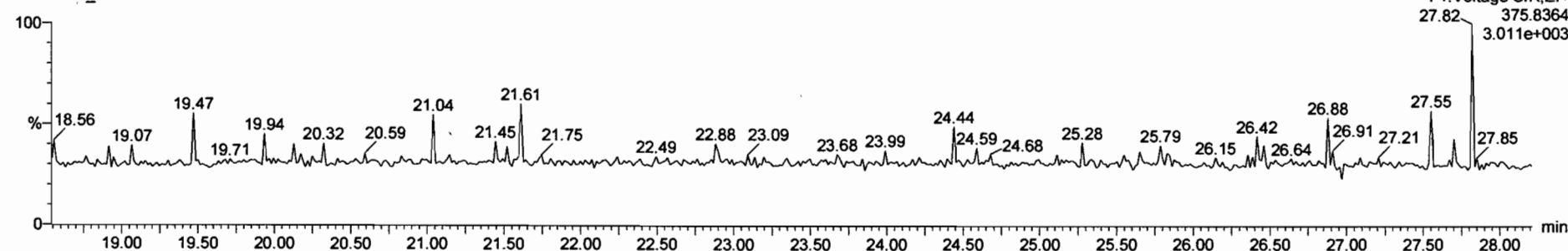


200930R2\_11



**DPE1**

200930R2\_11

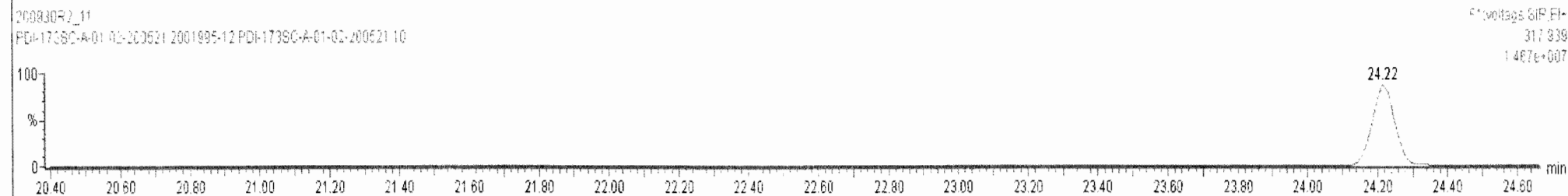
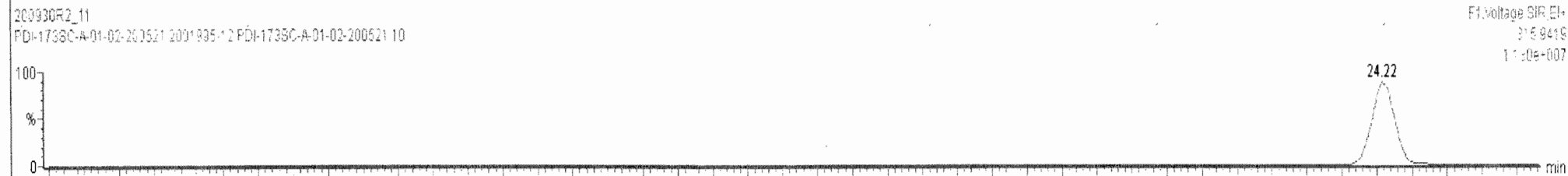
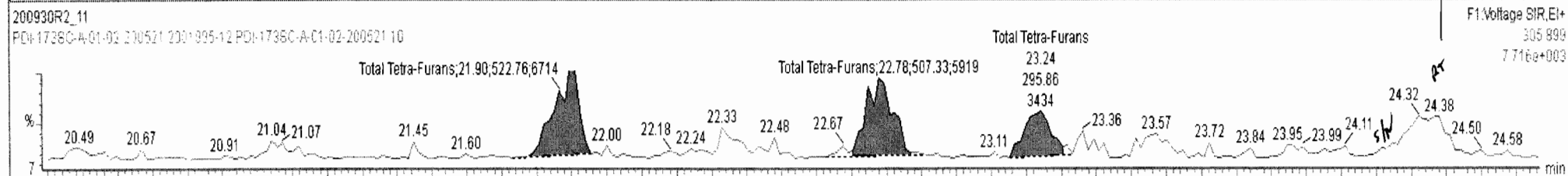
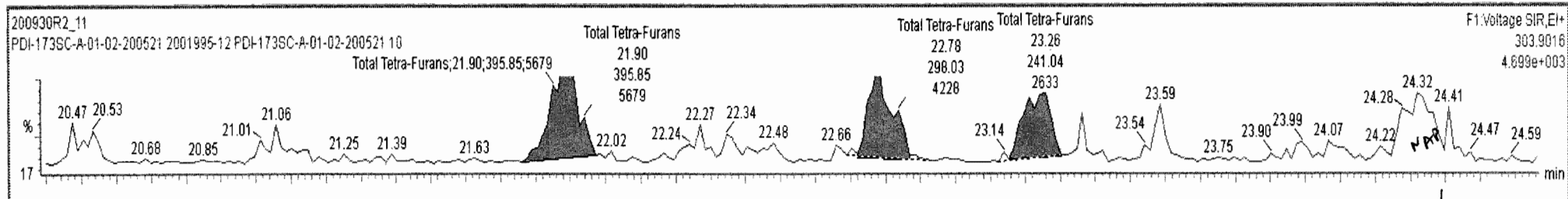


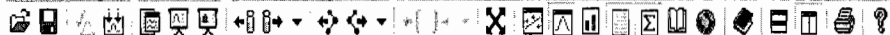


200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans			0.7353	10.074			0.551		0.0334	0.839
44	1st Func. Penta-Furans			0.9386	10.074			0.499		0.0131	0.499
45	Total Penta-Furans			0.9386	10.074			0.810		0.0286	0.929

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Tetra-Furans	21.90	3.958e2	5.228e2	0.76	NO	0.14372	0.14372
2	Total Tetra-Furans	22.78	2.960e2	5.073e2	0.59	YES	0.10719	0.00000
3	Total Tetra-Furans	23.26	2.410e2	2.959e2	0.81	NO	0.084003	0.064003
4	Total Tetra-Furans	24.75	7.443e2	8.877e2	0.84	NO	0.25534	0.25534

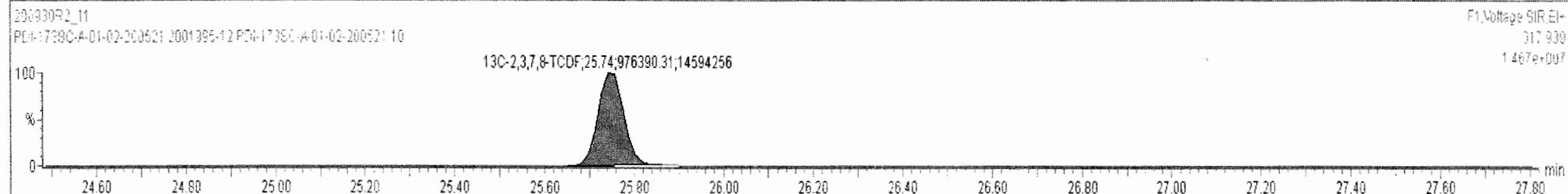
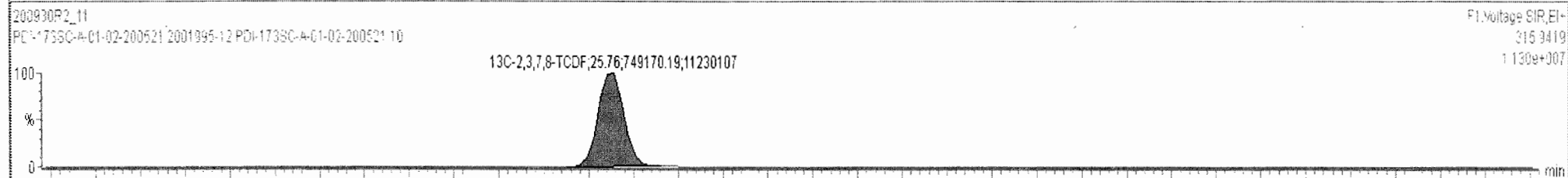
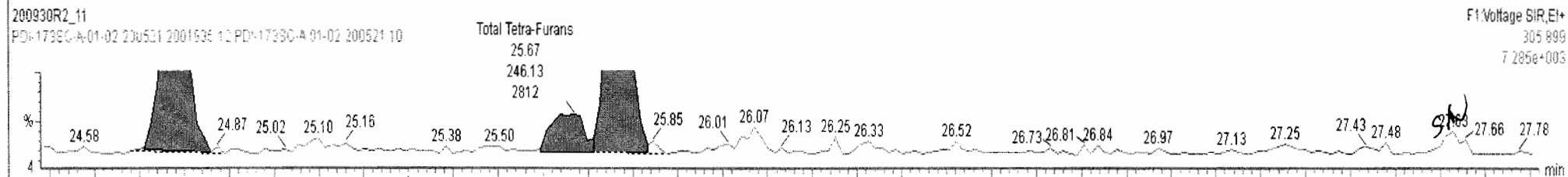
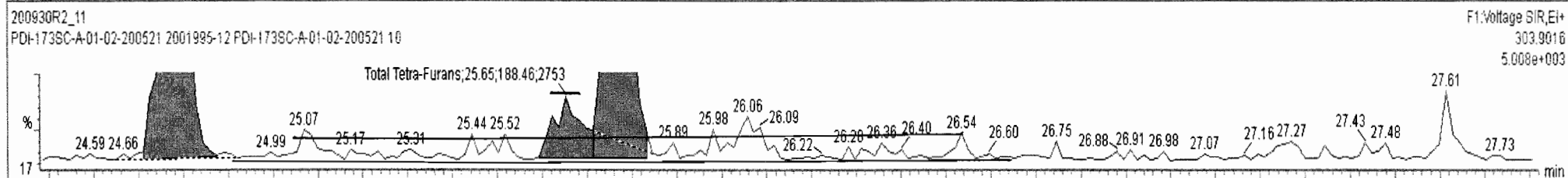




200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	nV	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.074			0.551		0.0334	0.939
44 1st Func. Penta-Furans				0.9386	10.074			0.499		0.0131	0.499
45 Total Penta-Furans				0.9386	10.074			0.810		0.0286	0.929

Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc.
1 Total Tetra-Furans	21.90	3.958e2	5.228e2	0.76	NO	0.14372	0.14372
2 Total Tetra-Furans	22.78	2.980e2	5.073e2	0.59	YES	0.10719	0.00000
3 Total Tetra-Furans	23.26	2.410e2	2.959e2	0.81	NO	0.084003	0.084003
4 Total Tetra-Furans	24.75	7.443e2	8.877e2	0.84	NO	0.25534	0.25534



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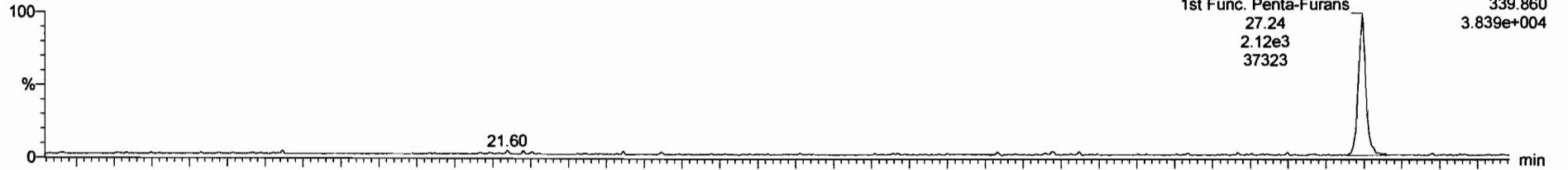
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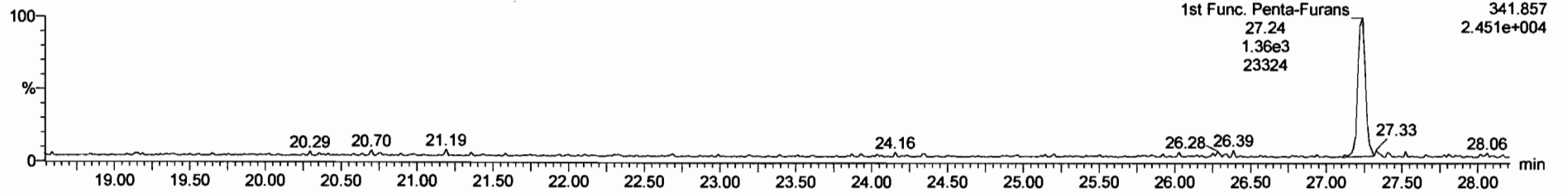
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1st Func. Penta-Furans

200930R2\_11

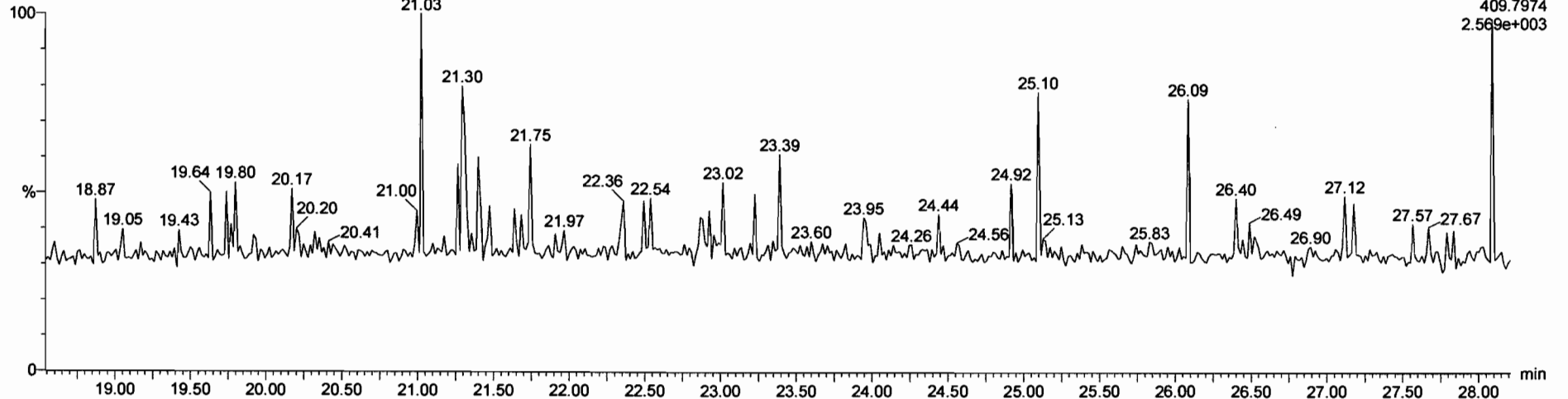


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DPE6

200930R2\_11



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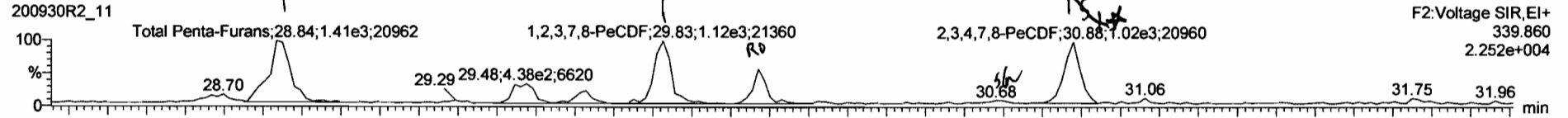
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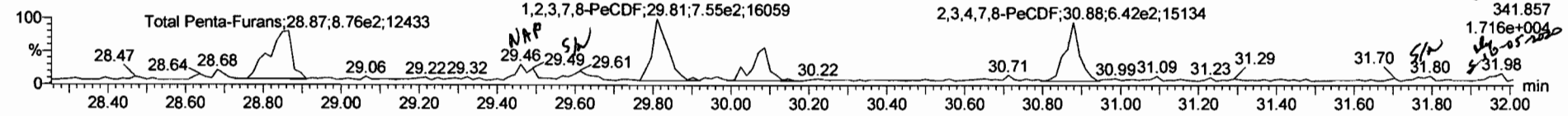
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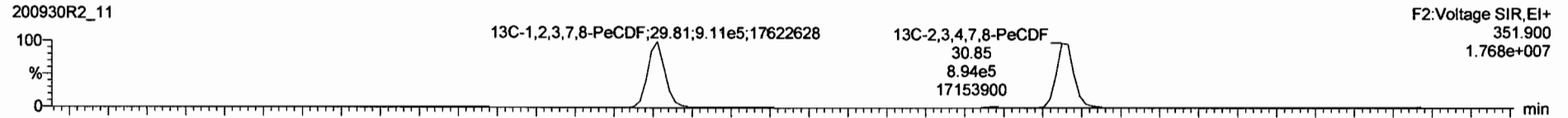
**1,2,3,7,8-PeCDF**



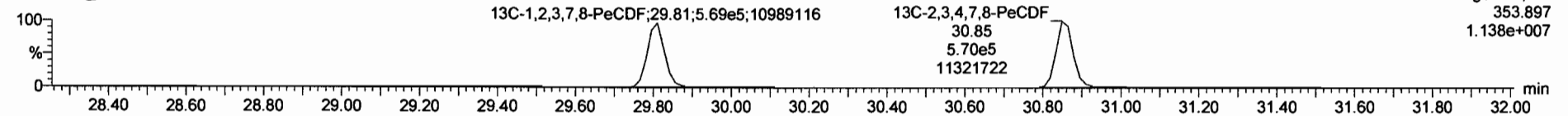
200930R2\_11



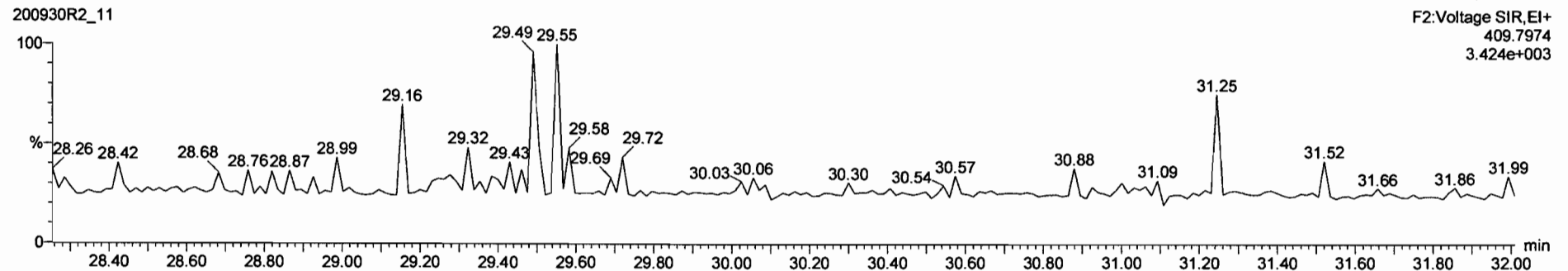
**13C-1,2,3,7,8-PeCDF**



200930R2\_11



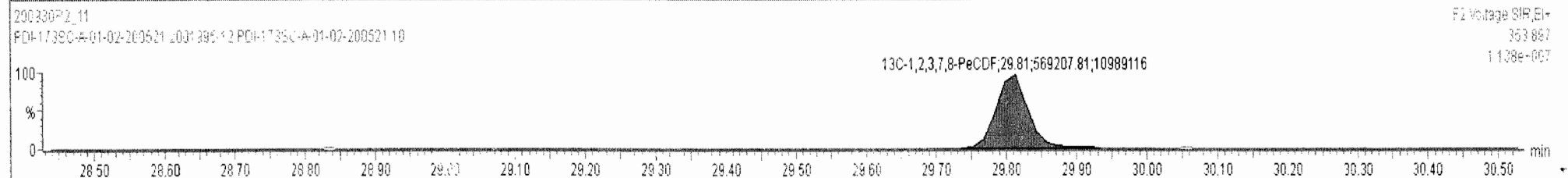
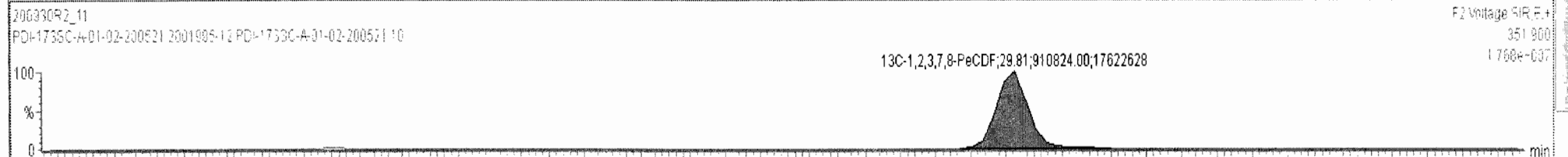
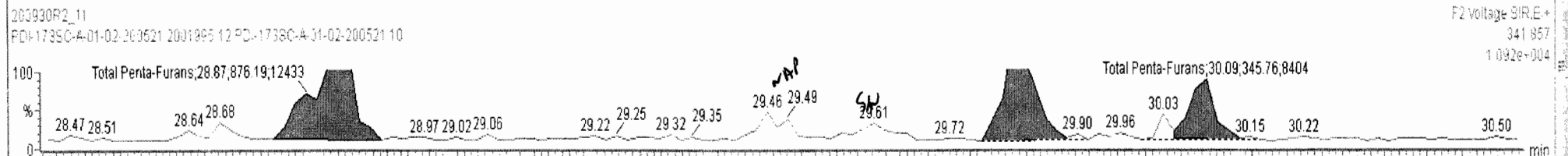
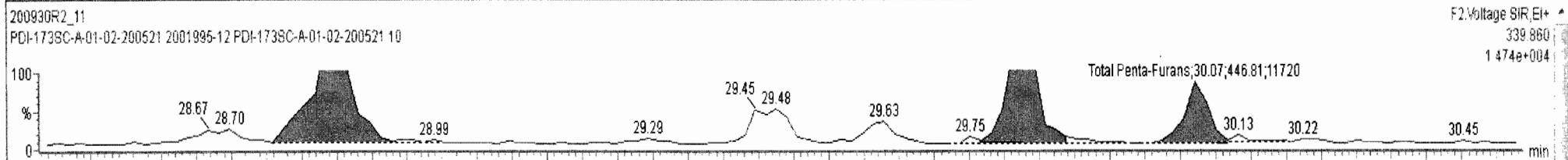
**DPE2**



200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.074			0.483		0.0334	0.871
44 1st Func. Penta-Furans				0.9386	10.074			0.499		0.0131	0.499
45 Total Penta-Furans				0.9396	10.074			0.794		0.0296	0.699

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.84	1.372e3	8.762e2	1.57	NO	0.32301	0.32301
2 1,2,3,7,8-PeCDF	29.83	1.052e3	7.430e2	1.42	NO	0.25654	0.25654
3 Total Penta-Furans	30.07	4.468e2	3.458e2	1.29	YES	0.10562	0.00000
4 2,3,4,7,8-PeCDF	30.88	1.017e3	6.423e2	1.58	NO	0.21431	0.21431

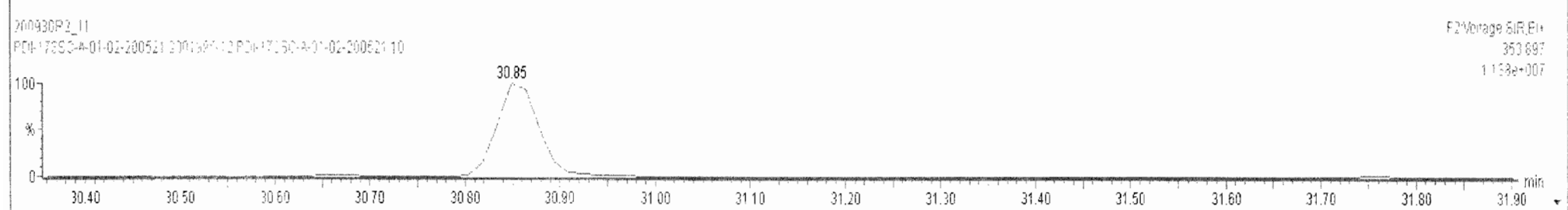
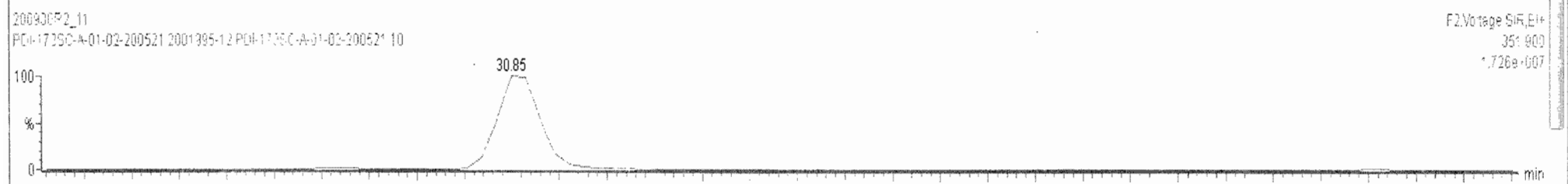
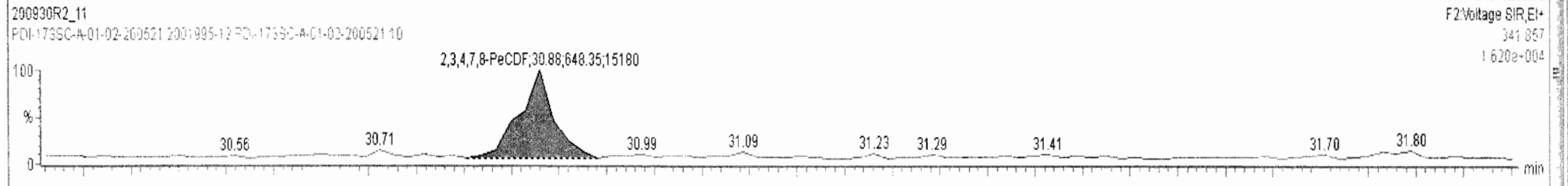
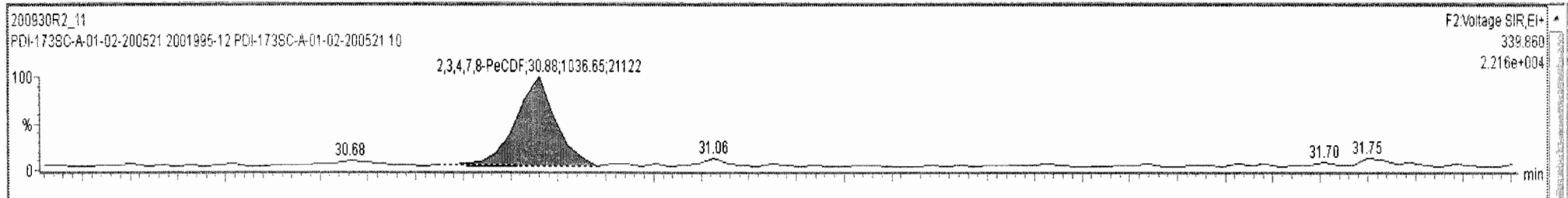


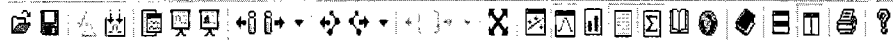


200930R2\_11 - 2001995-12-PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.074			0.797		0.0286	0.903
46 Total Hexa-Furans				0.8699	10.074			2.91		0.0478	3.14
47 Total Hepta-Furans				0.8908	10.074			8.18		0.0928	8.18

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	26.83	1.372e3	8.762e2	1.57	NO	0.32301	0.32301
2 1,2,3,7,8-PeCDF	29.83	1.052e3	7.430e2	1.42	NO	0.25654	0.25654
3 Total Penta-Furans	30.07	4.468e2	3.458e2	1.29	YES	0.10562	0.00000

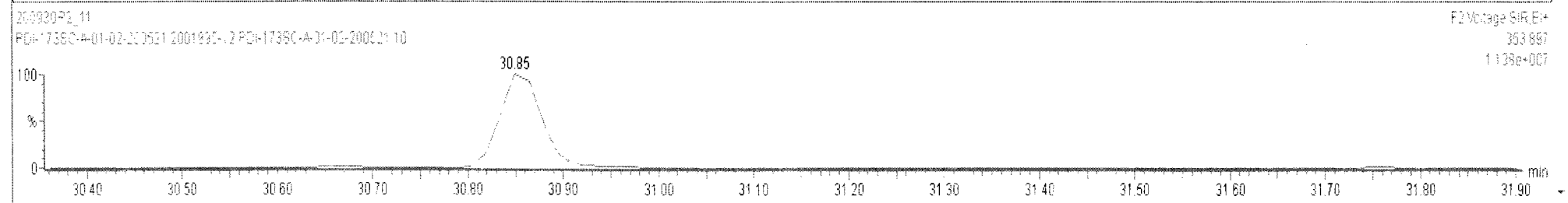
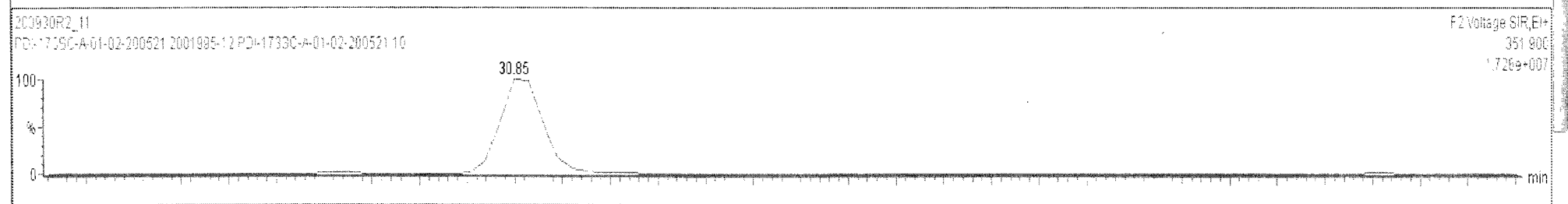
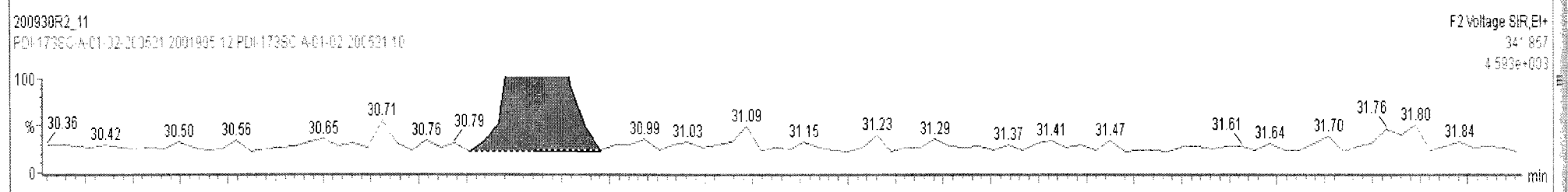
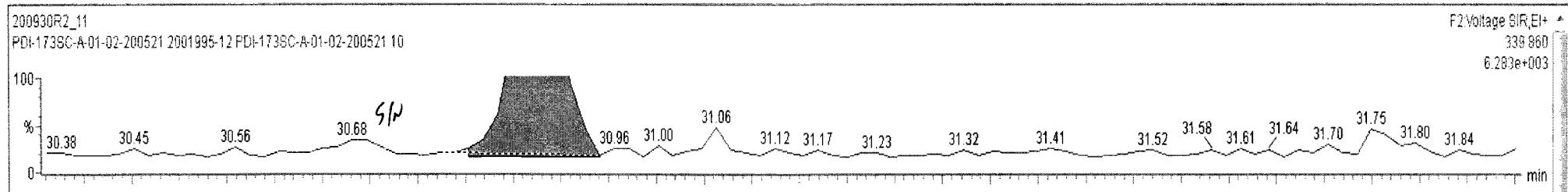




200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.074			0.797		0.0286	0.903
46 Total Hexa-Furans				0.8699	10.074			2.91		0.0478	3.14
47 Total Hepta-Furans				0.8908	10.074			6.18		0.0928	6.18

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.83	1.372e3	8.762e2	1.57	NO	0.32301	0.32301
2 1,2,3,7,8-PeCDF	29.83	1.052e3	7.430e2	1.42	NO	0.25654	0.25654
3 Total Penta-Furans	30.07	4.468e2	3.458e2	1.29	YES	0.10562	0.00000



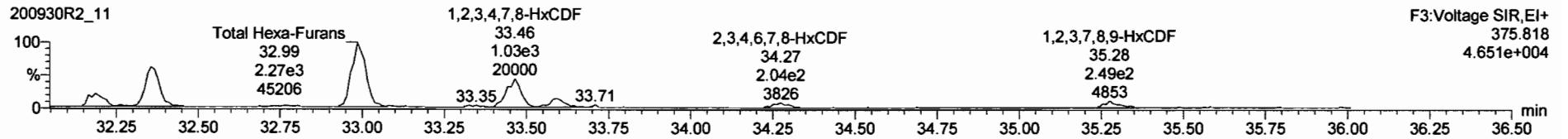
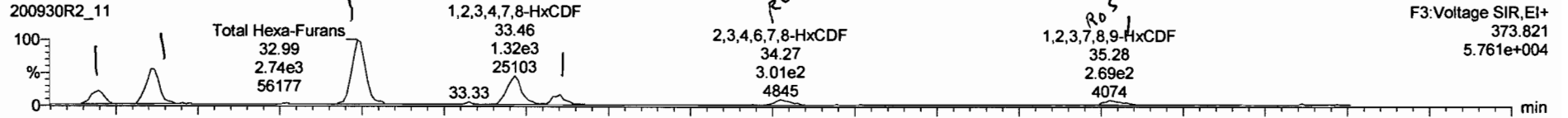
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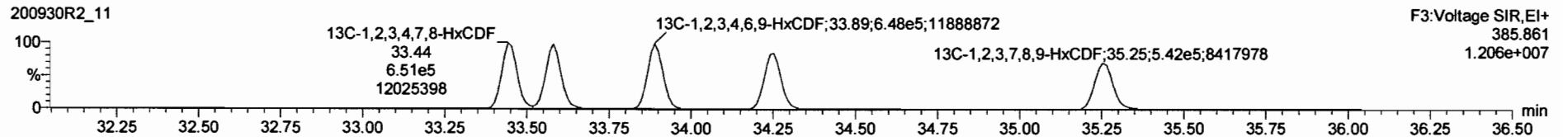
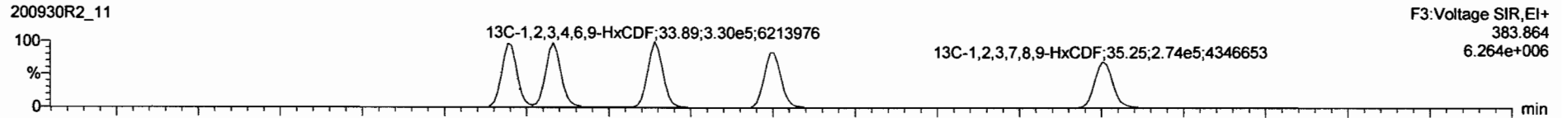
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Name: 200930R2\_11, Date: 01-Oct-2020, Time: 05:15:54, ID: 2001995-12 PDI-173SC-A-01-02-200521 10, Description: PDI-173SC-A-01-02-200521

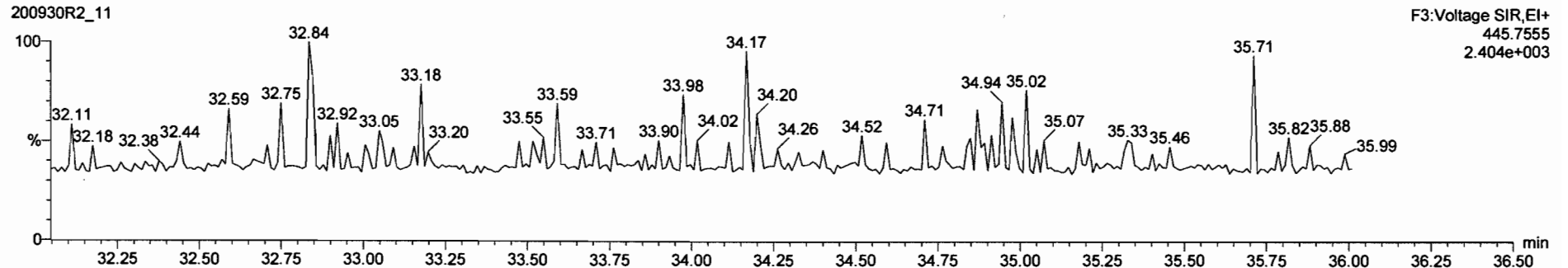
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



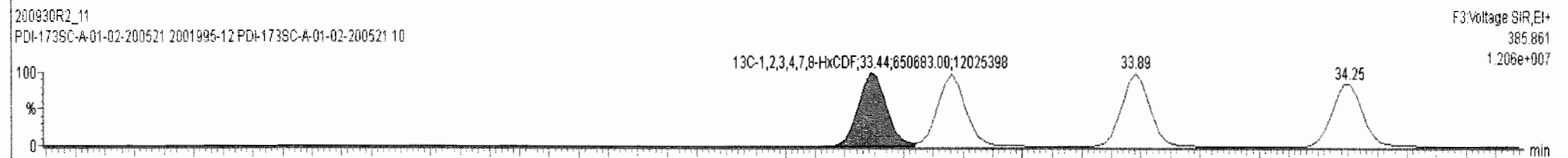
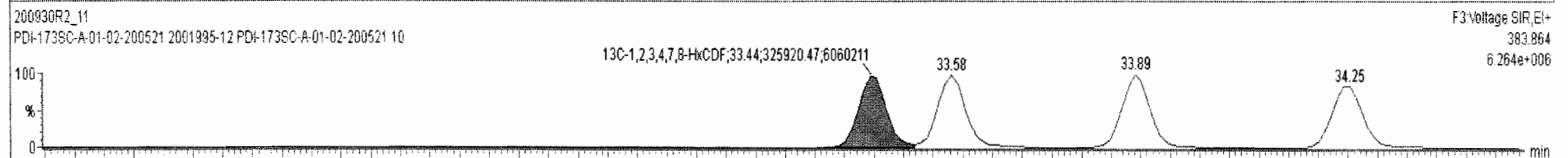
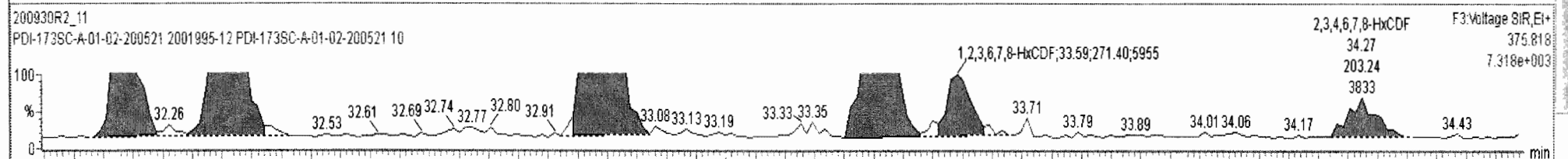
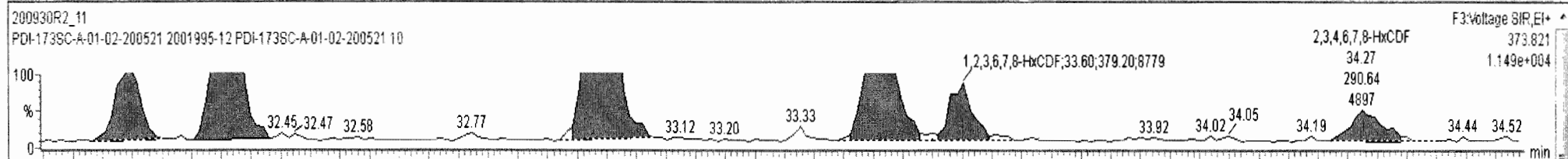


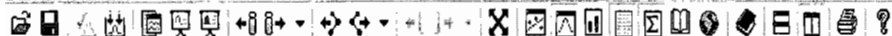


200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8698	10.074			3.06		0.0478	3.18
47 Total Hepta-Furans				0.8908	10.074			8.24		0.0928	8.24
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	5.507e2	4.837e2	1.14	NO	0.25685	0.25685
2 Total Hexa-Furans	32.36	1.490e3	1.401e3	1.06	NO	0.71790	0.71790
3 Total Hexa-Furans	32.99	2.713e3	2.239e3	1.21	NO	1.2297	1.2297
4 1,2,3,4,7,8-HxCDF	33.46	1.282e3	1.028e3	1.25	NO	0.55767	0.55767
5 1,2,3,6,7,8-HxCDF	33.60	3.792e2	2.714e2	1.40	NO	0.15045	0.15045
6 2,3,4,6,7,8-HxCDF	34.27	2.906e2	2.032e2	1.43	YES	0.11267	0.00000
7 1,2,3,7,8,9-HxCDF	35.28	2.792e2	2.511e2	1.11	NO	0.15071	0.15071

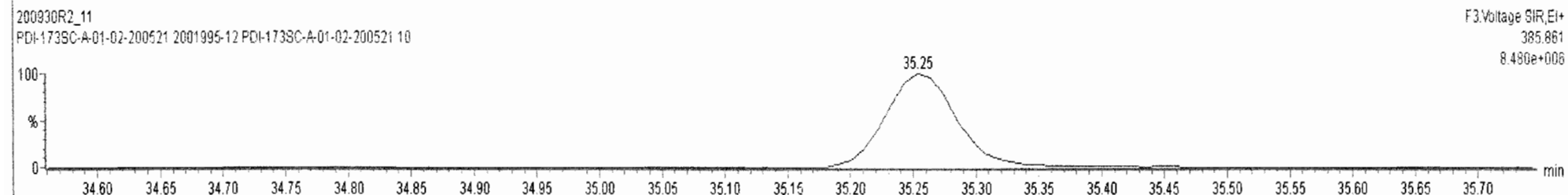
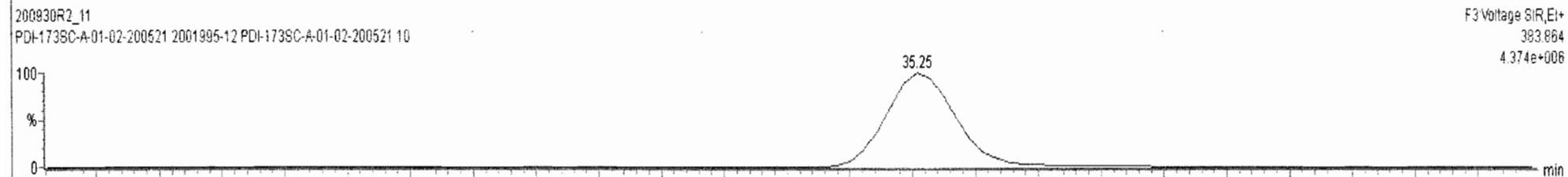
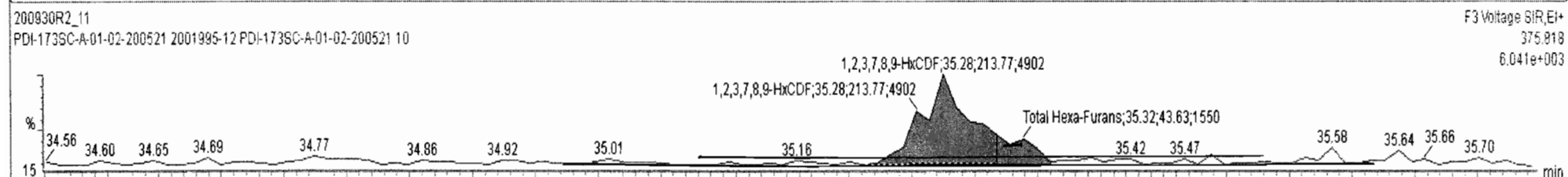
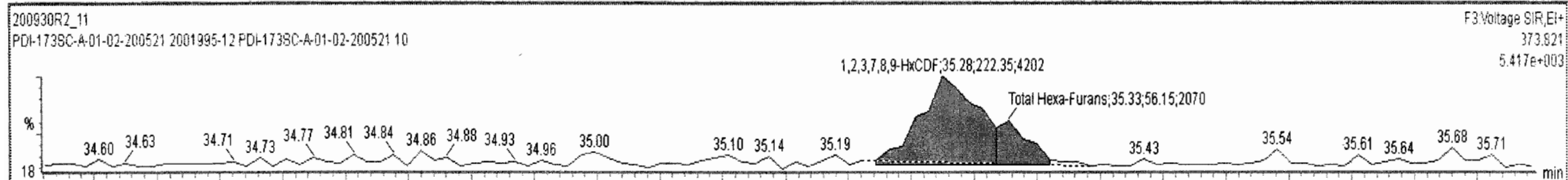




200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9366	10.074			0.797		0.0266	0.903
46 Total Hexa-Furans				0.8699	10.074			2.94		0.0478	3.16
47 Total Hepta-Furans				0.8908	10.074			8.18		0.0928	8.18

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
6 2,3,4,6,7,8-HxCDF	34.27	2.906e2	2.032e2	1.43	YES	0.11267	0.00000
7 1,2,3,7,8,9-HxCDF	35.28	2.223e2	2.138e2	1.04	YES	0.11416	0.00000
8 Total Hexa-Furans	35.33	5.615e1	4.363e1	1.29	NO	0.024778	0.024778



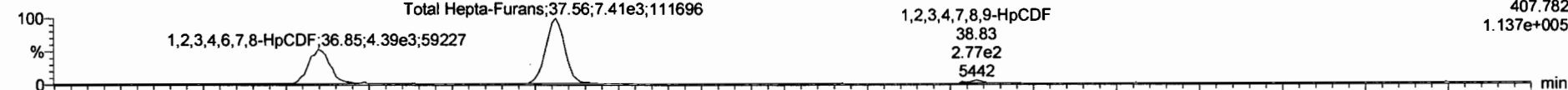
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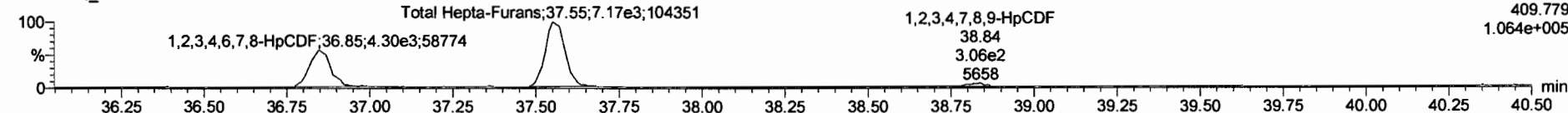
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**1,2,3,4,6,7,8-HpCDF**

200930R2\_11

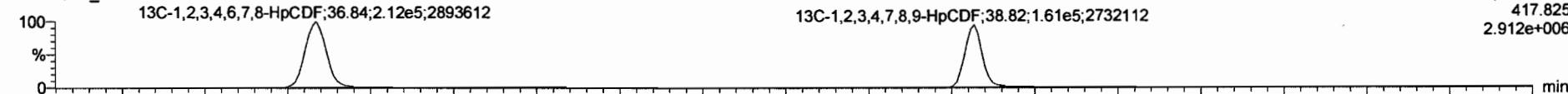


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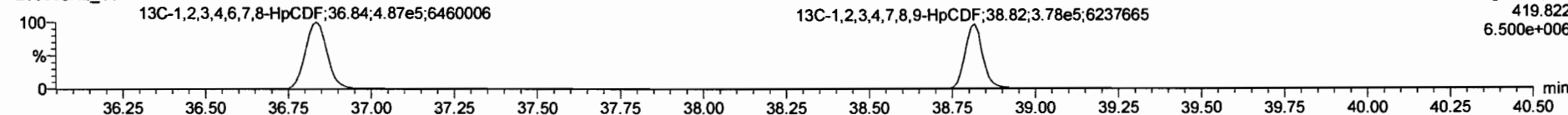


**13C-1,2,3,4,6,7,8-HpCDF**

200930R2\_11

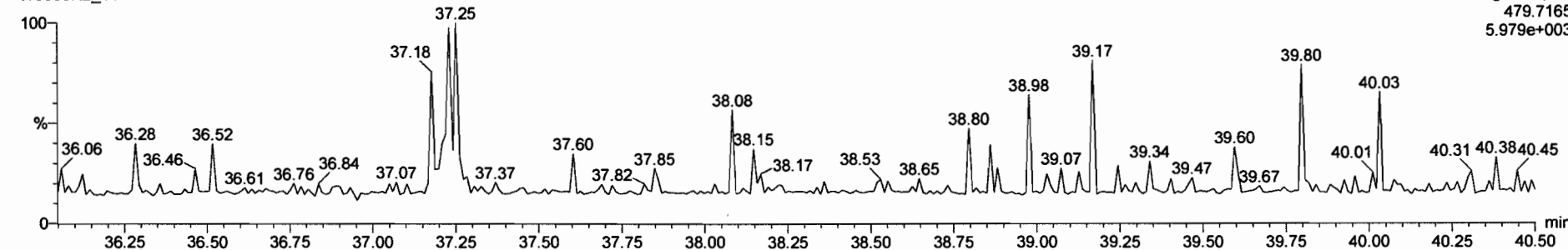


200930R2\_11



**DPE4**

200930R2\_11

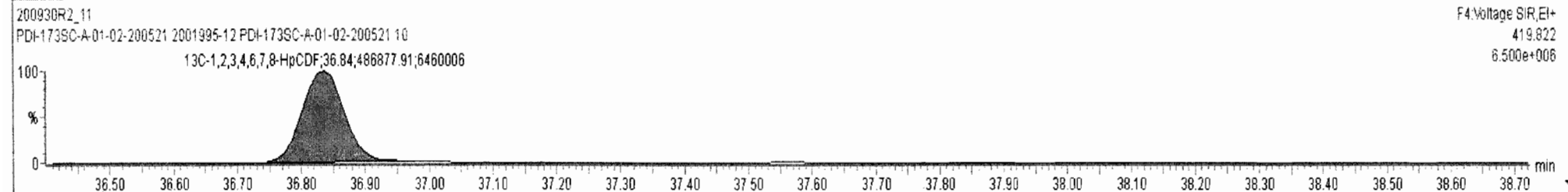
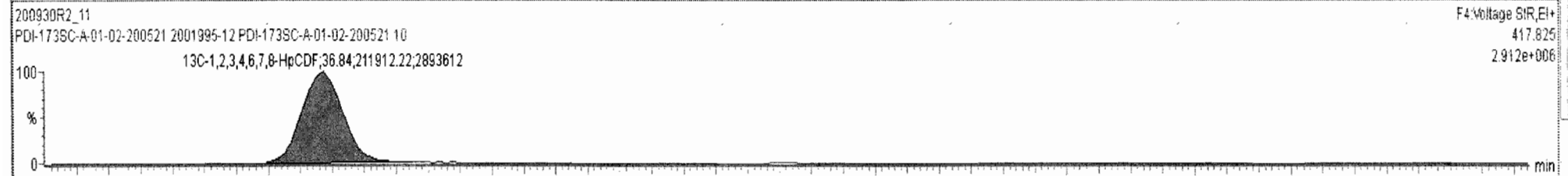
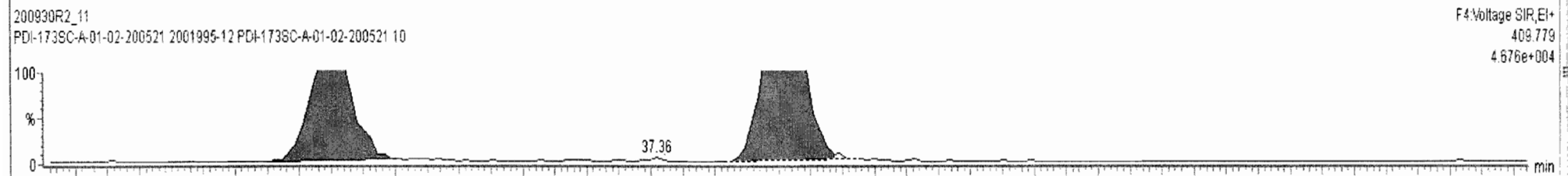
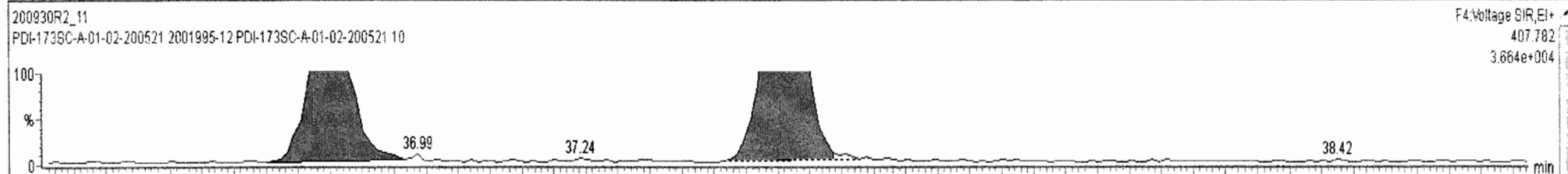




200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.074			2.94		0.0478	3.16
47 Total Hepta-Furans				0.8908	10.074			8.18		0.0928	8.18
48 PFK1											

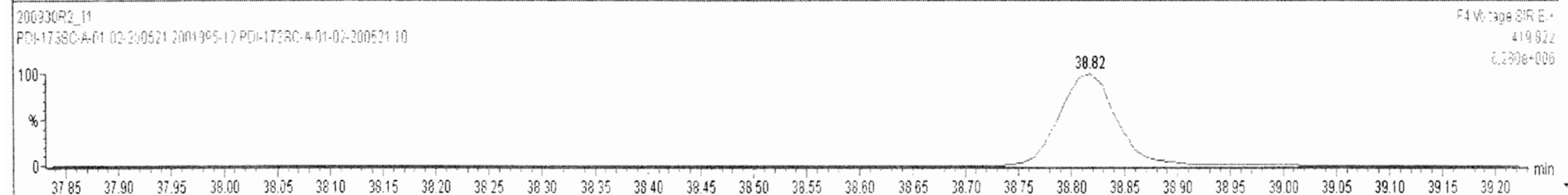
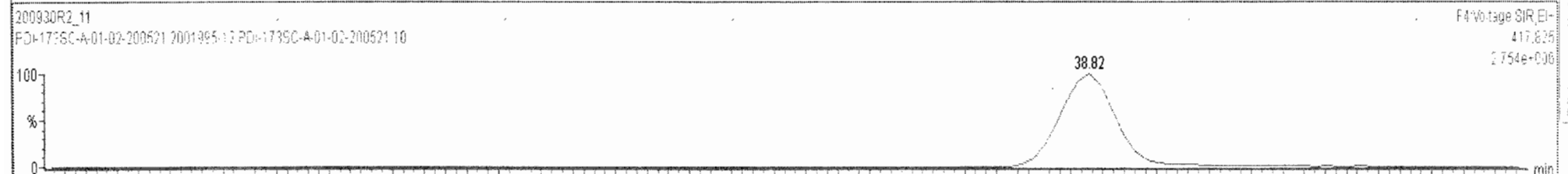
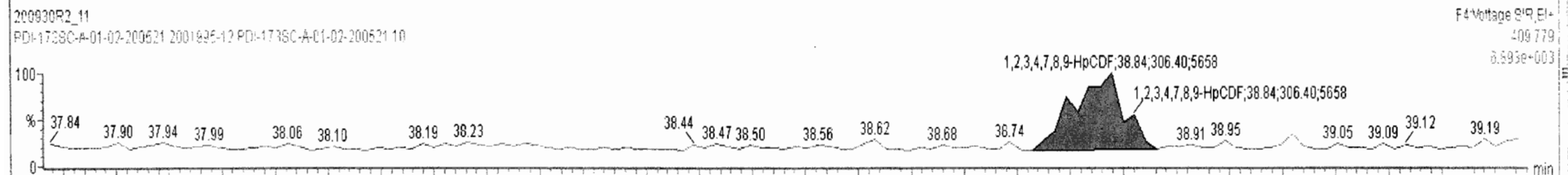
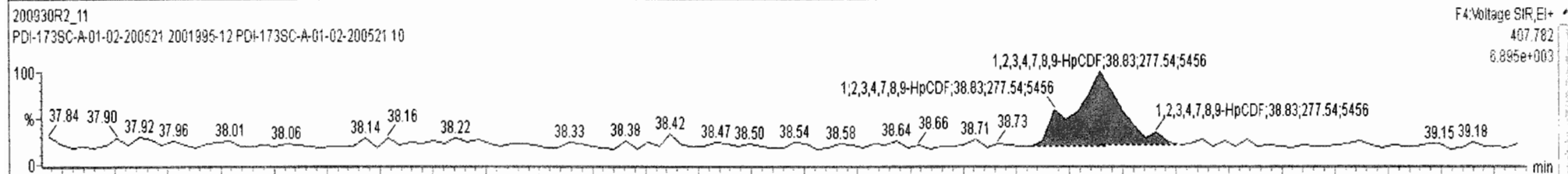
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.85	4.387e3	4.297e3	1.02	NO	2.7695	2.7695
2 Total Hepta-Furans	37.56	7.318e3	7.105e3	1.03	NO	5.1956	5.1956
3 1,2,3,4,7,8,9-HpCDF	38.83	2.768e2	3.064e2	0.90	NO	0.21496	0.21496



200930R2\_11 - 2001995-12 PDI-173SC-A-01-02-200521 10 - PDI-173SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec.	DL	EMPC
46 Total Hexa-Furans				0.8699	10.074			2.94		0.0478	3.16
47 Total Hepta-Furans				0.8908	10.074			8.16		0.0928	8.18
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.85	4.387e3	4.297e3	1.02	NO	2.7695	2.7695
2 Total Hepta-Furans	37.56	7.318e3	7.105e3	1.03	NO	5.1956	5.1956
3 1,2,3,4,7,8,9-HpCDF	38.83	2.775e2	3.064e2	0.91	NO	0.21522	0.21522



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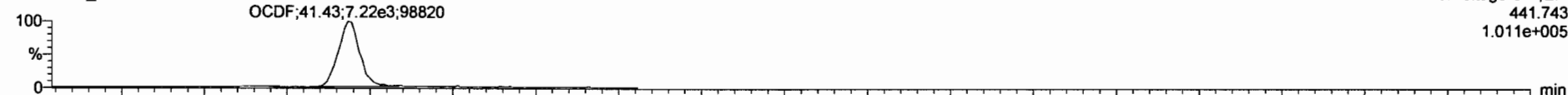
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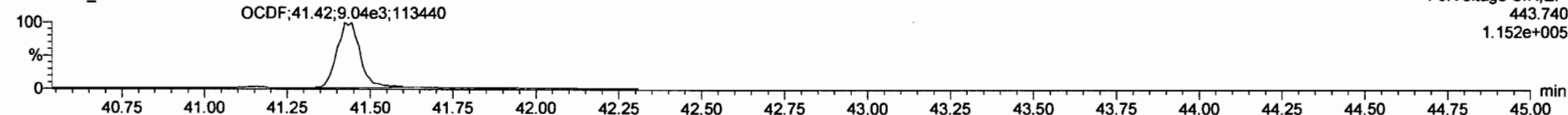
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**OCDF**

200930R2\_11

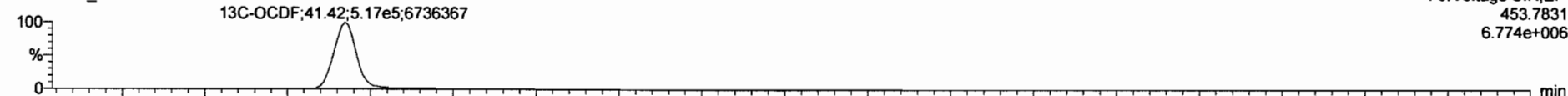


200930R2\_11

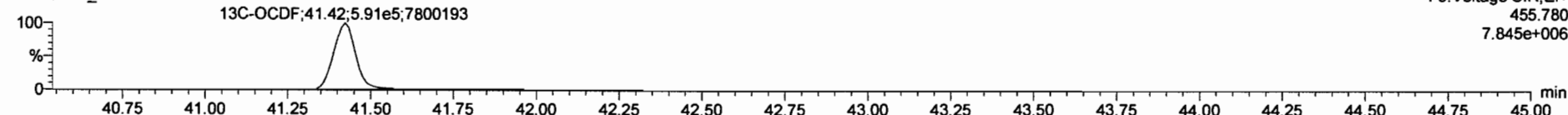


**13C-OCDF**

200930R2\_11

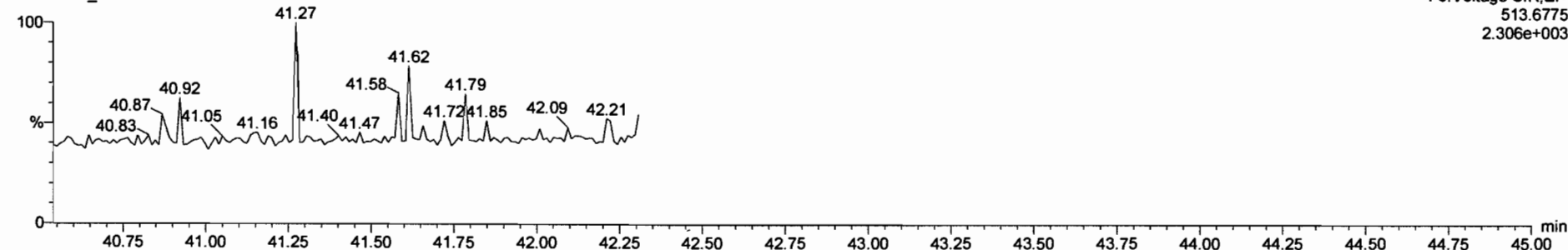


200930R2\_11



**DPE5**

200930R2\_11

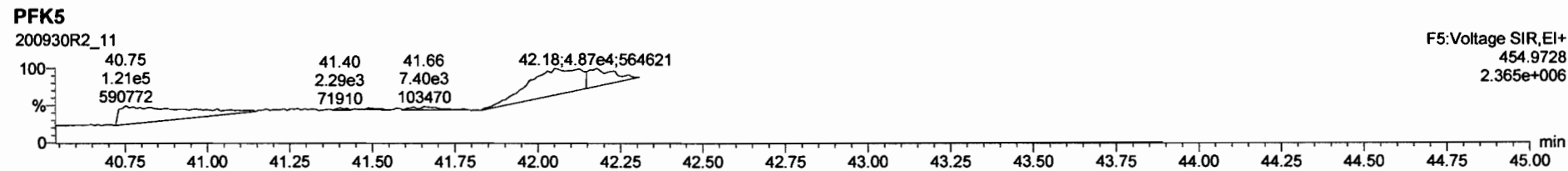
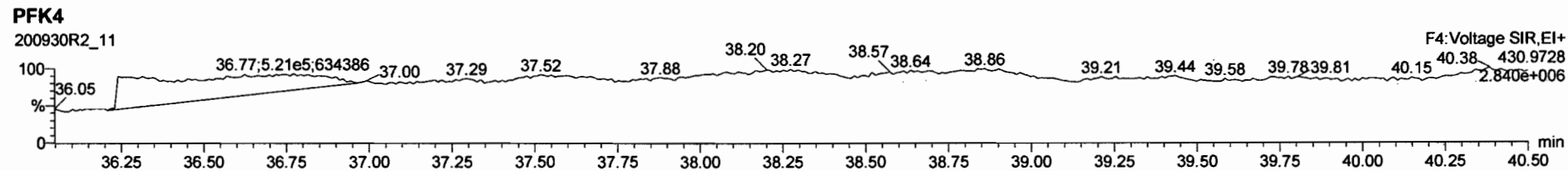
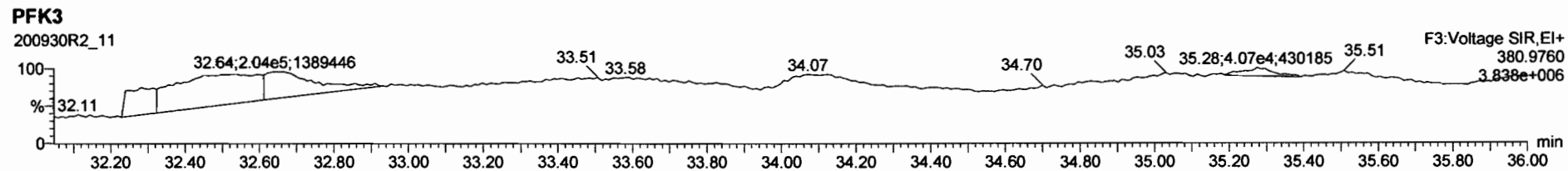
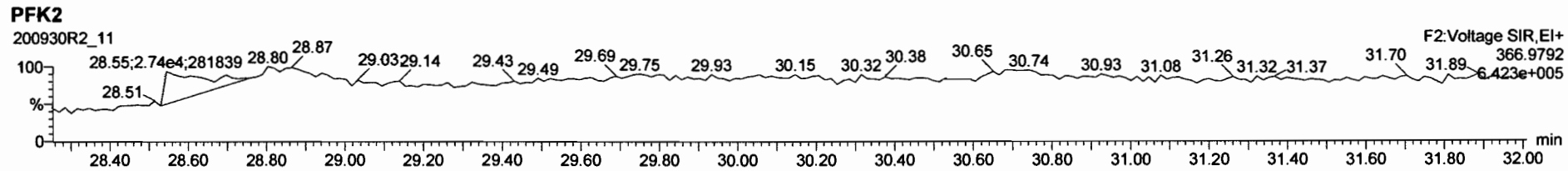
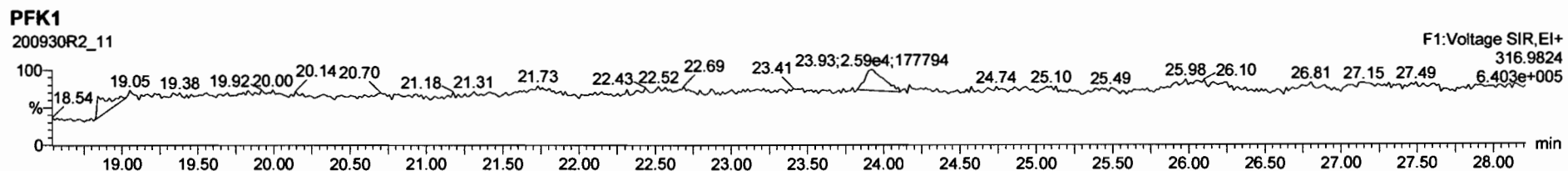


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*dy 10-22-2020*

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*W- 10/22/20*

Name: 200930R2\_12, Date: 01-Oct-2020, Time: 05:59:34, ID: 2001995-13 PDI-173SC-A-02-03-200521 10, Description: PDI-173SC-A-02-03-200521

#	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	1.02	10.041	26.478		1.001				0.0459	
2	2 1,2,3,7,8-PeCDD			NO	0.956	10.041	31.085		1.001				0.0705	
3	3 1,2,3,4,7,8-HxCDD			NO	1.00	10.041	34.390		1.000				0.0839	
4	4 1,2,3,6,7,8-HxCDD	6.76e2	1.47	YES	0.888	10.041	34.498	34.50	1.000	1.000	0.20862		0.0846	0.189
5	5 1,2,3,7,8,9-HxCDD			NO	0.909	10.041	34.774		1.000				0.0750	
6	6 1,2,3,4,6,7,8-HpCDD	1.40e4	0.99	NO	0.832	10.041	38.222	38.22	1.000	1.000	5.3245		0.165	5.32
7	7 OCDD	1.01e5	0.86	NO	0.862	10.041	41.125	41.14	1.000	1.000	47.779		0.372	47.8
8	8 2,3,7,8-TCDF			NO	0.735	10.041	25.785		1.000				0.0561	
9	9 1,2,3,7,8-PeCDF	4.72e2	0.99	YES	0.939	10.041	29.848	29.84	1.001	1.001	0.11012		0.0564	0.0903
10	10 2,3,4,7,8-PeCDF			NO	1.05	10.041	30.911		1.001				0.0523	
11	11 1,2,3,4,7,8-HxCDF	5.39e2	0.97	YES	0.842	10.041	33.465	33.48	1.000	1.000	0.18211		0.0527	0.162
12	12 1,2,3,6,7,8-HxCDF			NO	0.894	10.041	33.602		1.000				0.0495	
13	13 2,3,4,6,7,8-HxCDF			NO	0.870	10.041	34.284		1.001				0.0487	
14	14 1,2,3,7,8,9-HxCDF			NO	0.855	10.041	35.296		1.001				0.0639	
15	15 1,2,3,4,6,7,8-HpCDF	1.71e3	0.94	NO	0.891	10.041	36.895	36.88	1.001	1.001	0.61306		0.0661	0.613
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.00	10.041	38.818		1.000				0.0642	
17	17 OCDF	2.94e3	0.95	NO	0.784	10.041	41.424	41.44	1.000	1.001	1.5095		0.100	1.51
18	18 13C-2,3,7,8-TCDD	6.81e5	0.78	NO	1.15	10.041	26.420	26.45	1.029	1.030	112.64	56.5	0.142	
19	19 13C-1,2,3,7,8-PeCDD	6.99e5	0.63	NO	0.887	10.041	31.012	31.06	1.207	1.209	150.10	75.4	0.158	
20	20 13C-1,2,3,4,7,8-HxCDD	6.24e5	1.29	NO	0.801	10.041	34.383	34.38 ✓	1.014	1.014	165.95	83.3	0.307	
21	21 13C-1,2,3,6,7,8-HxCDD	7.27e5	1.25	NO	0.892	10.041	34.512	34.50 ✓	1.018	1.017	173.55	87.1	0.276	
22	22 13C-1,2,3,7,8,9-HxCDD	8.16e5	1.24	NO	0.882	10.041	34.773	34.76 ✓	1.025	1.025	197.04	98.9	0.278	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.29e5	1.05	NO	0.719	10.041	38.209	38.21	1.127	1.127	186.33	93.5	0.603	
24	24 13C-OCDD	9.75e5	0.89	NO	0.563	10.041	41.139	41.13	1.213	1.213	368.85	92.6	0.812	
25	25 13C-2,3,7,8-TCDF	8.28e5	0.77	NO	1.01	10.041	25.763	25.77	1.003	1.003	111.99	56.2	0.181	
26	26 13C-1,2,3,7,8-PeCDF	9.09e5	1.61	NO	0.814	10.041	29.772	29.83	1.159	1.161	152.44	76.5	0.364	
27	27 13C-2,3,4,7,8-PeCDF	8.53e5	1.58	NO	0.768	10.041	30.809	30.88	1.200	1.202	151.70	76.2	0.386	
28	28 13C-1,2,3,4,7,8-HxCDF	7.01e5	0.50	NO	0.993	10.041	33.461	33.47 ✓	0.987	0.987	150.43	75.5	0.425	
29	29 13C-1,2,3,6,7,8-HxCDF	7.25e5	0.50	NO	0.990	10.041	33.603	33.59 ✓	0.991	0.991	156.02	78.3	0.426	
30	30 13C-2,3,4,6,7,8-HxCDF	7.78e5	0.51	NO	0.944	10.041	34.271	34.26	1.011	1.010	175.58	88.1	0.447	



Dataset: U:\VG12.PRO\Results\200930R2\200930R2-12.qld

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Printed: Monday, October 05, 2020 15:41:31 Pacific Daylight Time

Name: 200930R2\_12, Date: 01-Oct-2020, Time: 05:59:34, ID: 2001995-13 PDI-173SC-A-02-03-200521 10, Description: PDI-173SC-A-02-03-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	6.64e5	0.51	NO	0.842	10.041	35.289	35.28	1.041	1.040	168.07	84.4	0.501	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.23e5	0.44	NO	0.687	10.041	36.879	36.86	1.087	1.087	193.25	97.0	0.460	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.53e5	0.43	NO	0.555	10.041	38.829	38.82	1.145	1.145	173.99	87.3	0.569	
34	34 13C-OCDF	9.90e5	0.87	NO	0.608	10.041	41.420	41.42	1.221	1.222	346.97	87.1	0.509	
35	35 37Cl-2,3,7,8-TCDD	2.54e5			1.18	10.041	26.451	26.46	1.030	1.030	41.029	51.5	0.0386	
36	36 13C-1,2,3,4-TCDD	1.05e6	0.79	NO	1.00	10.041	25.740	25.68	1.000	1.000	199.19	100	0.163	
37	37 13C-1,2,3,4-TCDF	1.46e6	0.78	NO	1.00	10.041	24.310	24.23	1.000	1.000	199.19	100	0.183	
38	38 13C-1,2,3,4,6,9-HxCDF	9.35e5	0.51	NO	1.00	10.041	33.920	33.91	1.000	1.000	199.19	100	0.422	
39	39 Total Tetra-Dioxins				1.02	10.041	24.620		0.000				0.0255	
40	40 Total Penta-Dioxins				0.956	10.041	29.960		0.000		0.14967		0.0705	0.150
41	41 Total Hexa-Dioxins				0.888	10.041	33.635		0.000		1.7168		0.0846	1.91
42	42 Total Hepta-Dioxins				0.832	10.041	37.640		0.000		12.431		0.165	12.4
43	43 Total Tetra-Furans				0.735	10.041	23.610		0.000				0.0274	
44	44 1st Func. Penta-Furans				0.939	10.041	27.230		0.000		0.29560		0.0277	0.296
45	45 Total Penta-Furans				0.939	10.041	29.275		0.000		0.00000		0.0279	0.244
46	46 Total Hexa-Furans				0.870	10.041	33.555		0.000		0.35446		0.0531	0.860
47	47 Total Hepta-Furans				0.891	10.041	37.835		0.000		1.8045		0.0686	1.80

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-12.qld

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Name: 200930R2\_12, Date: 01-Oct-2020, Time: 05:59:34, ID: 2001995-13 PDI-173SC-A-02-03-200521 10, Description: PDI-173SC-A-02-03-200521

**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	Total Penta-Dioxins	28.85	3.224e3	4.973e3	1.958e2	3.061e2	0.64	NO	5.019e2	0.14967	0.14967	0.0705

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.74	3.637e4	2.967e4	1.752e3	1.414e3	1.24	NO	3.165e3	0.98312	0.98312	0.0846
2	Total Hexa-Dioxins	33.65	2.150e4	1.665e4	1.374e3	9.883e2	1.39	NO	2.362e3	0.73365	0.73365	0.0846
3	1,2,3,6,7,8-HxCDD	34.50	7.343e3	5.400e3	4.021e2	2.735e2	1.47	YES	6.757e2	0.00000	0.18918	0.0846

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.25	1.423e5	1.347e5	9.361e3	9.295e3	1.01	NO	1.866e4	7.1064	7.1064	0.165
2	1,2,3,4,6,7,8-HpCDD	38.22	1.234e5	1.387e5	6.941e3	7.037e3	0.99	NO	1.398e4	5.3245	5.3245	0.165

**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	27.27	1.125e4	6.175e3	7.854e2	4.415e2	1.78	NO	1.227e3	0.29560	0.29560	0.0277

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-12.qld

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Name: 200930R2\_12, Date: 01-Oct-2020, Time: 05:59:34, ID: 2001995-13 PDI-173SC-A-02-03-200521 10, Description: PDI-173SC-A-02-03-200521

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.87	6.162e3	8.417e3	3.865e2	3.330e2	1.16	YES	0.000e0	0.00000	0.15318	0.0574
2	1,2,3,7,8-PeCDF	29.84	4.945e3	4.752e3	2.352e2	2.364e2	0.99	YES	4.716e2	0.00000	0.090341	0.0564

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.38	1.300e4	1.271e4	5.806e2	5.293e2	1.10	NO	1.110e3	0.35446	0.35446	0.0531
2	Total Hexa-Furans	33.01	1.406e4	1.107e4	7.184e2	4.802e2	1.50	YES	0.000e0	0.00000	0.34350	0.0531
3	1,2,3,4,7,8-HxCDF	33.48	5.407e3	5.181e3	2.657e2	2.737e2	0.97	YES	5.394e2	0.00000	0.16206	0.0527

**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	36.88	1.228e4	1.352e4	8.278e2	8.800e2	0.94	NO	1.708e3	0.61306	0.61306	0.0661
2	Total Hepta-Furans	37.58	2.426e4	2.392e4	1.486e3	1.380e3	1.08	NO	2.866e3	1.1914	1.1914	0.0686

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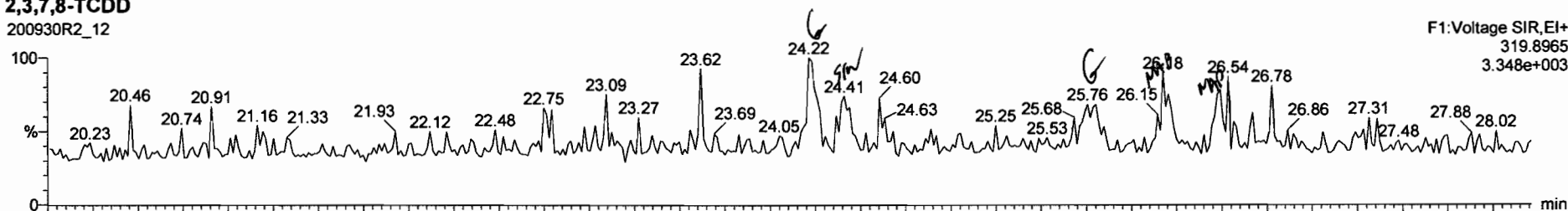
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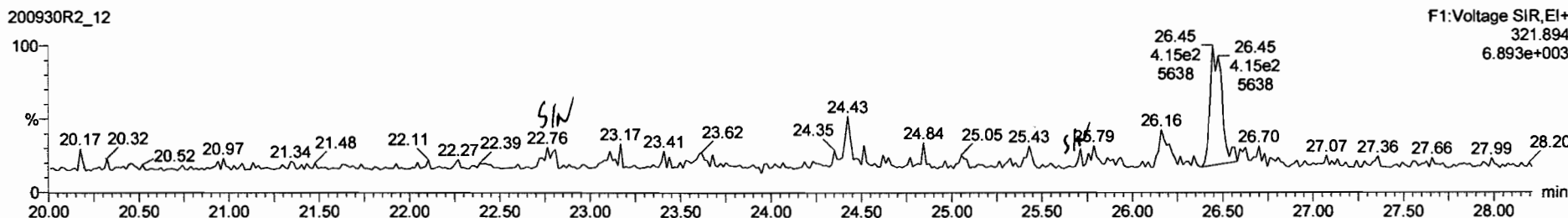
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**2,3,7,8-TCDD**

200930R2\_12



200930R2\_12

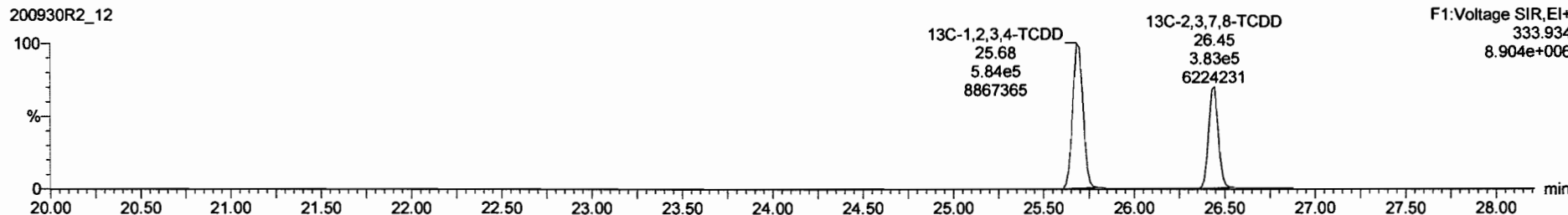


**13C-2,3,7,8-TCDD**

200930R2\_12



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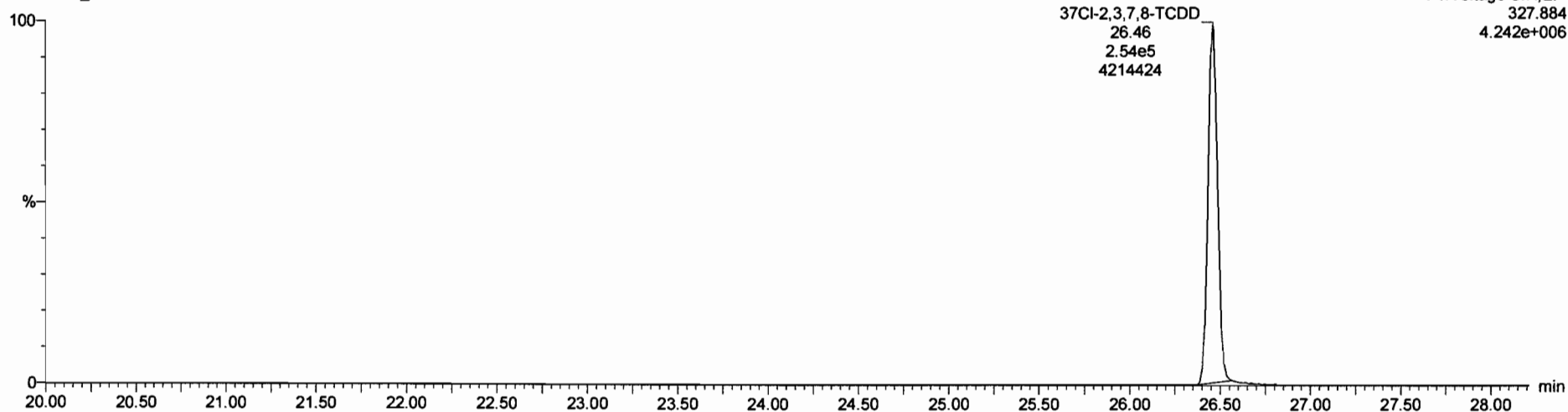
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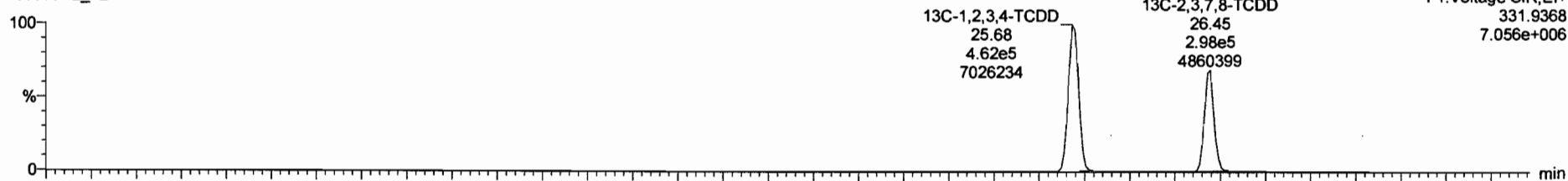
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200930R2\_12

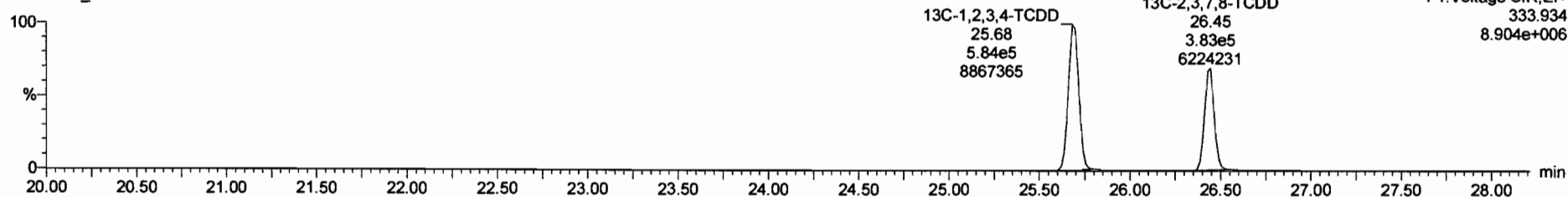


**13C-1,2,3,4-TCDD**

200930R2\_12



200930R2\_12

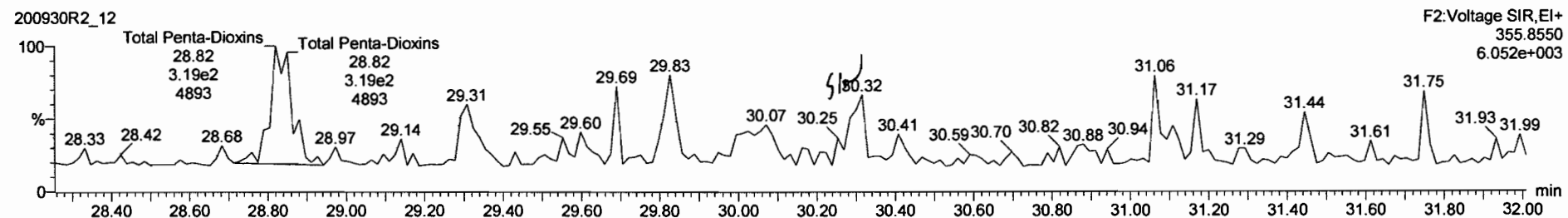
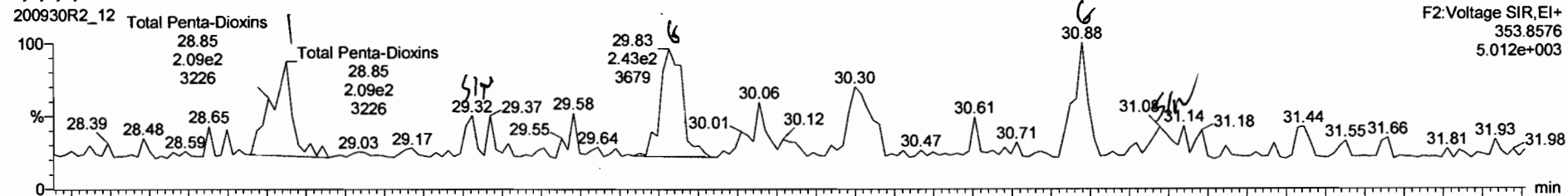


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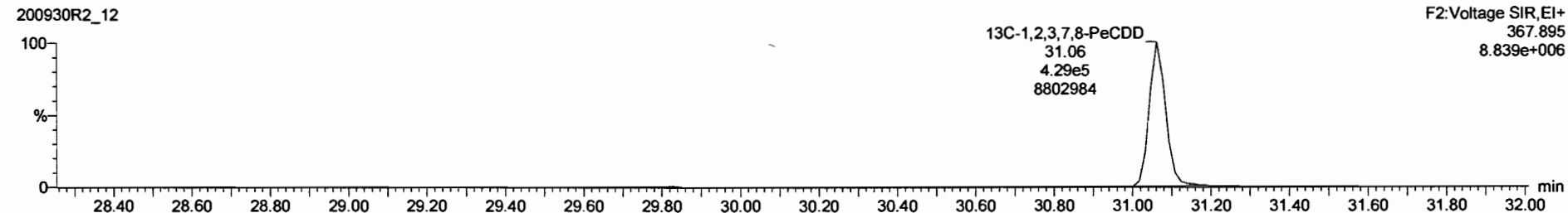
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1,2,3,7,8-PeCDD



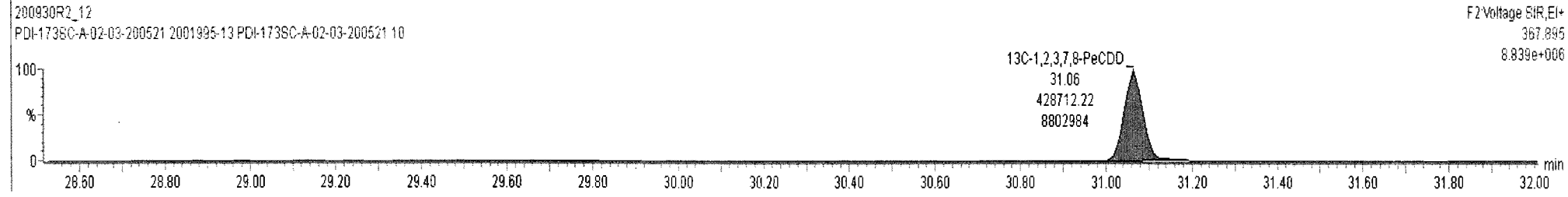
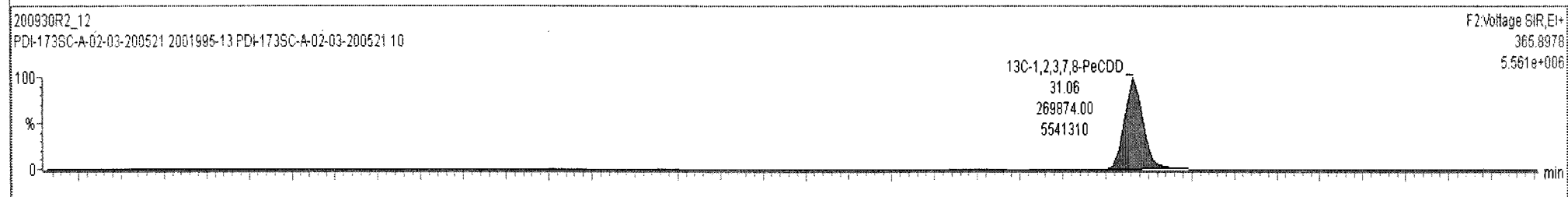
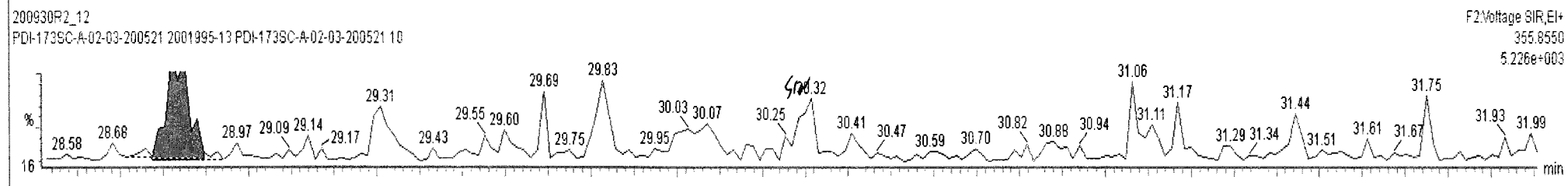
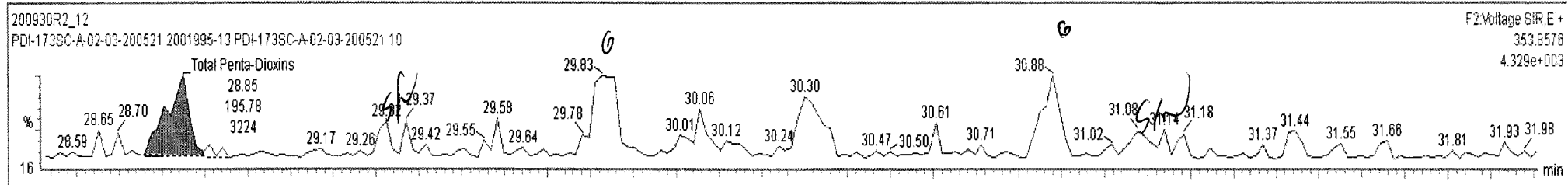
13C-1,2,3,7,8-PeCDD



200930R2\_12 - 2001995-13 PDI-173SC-A-02-03-200521 10 - FDI-173SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtAval	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.041					0.0255	
40 Total Penta-Dioxins				0.9561	10.041			0.150		0.0705	0.150
41 Total Hexa-Dioxins				0.8879	10.041			2.01		0.0946	2.12

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.85	1.958e2	3.061e2	0.64	NO	0.14967	0.14967



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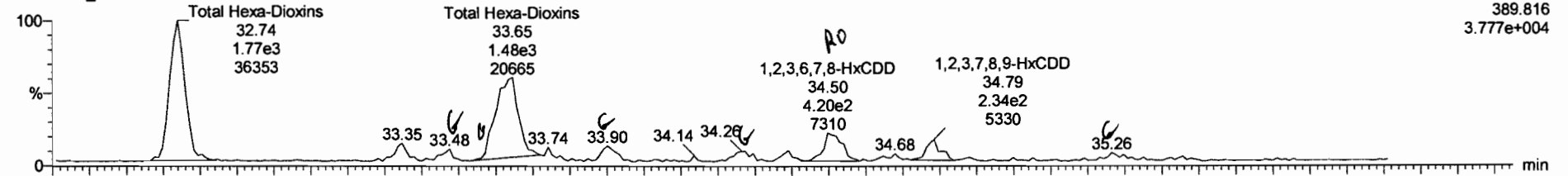
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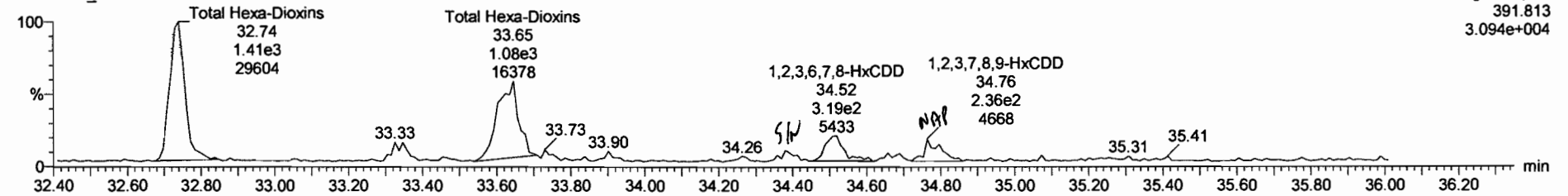
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**1,2,3,4,7,8-HxCDD**

200930R2\_12

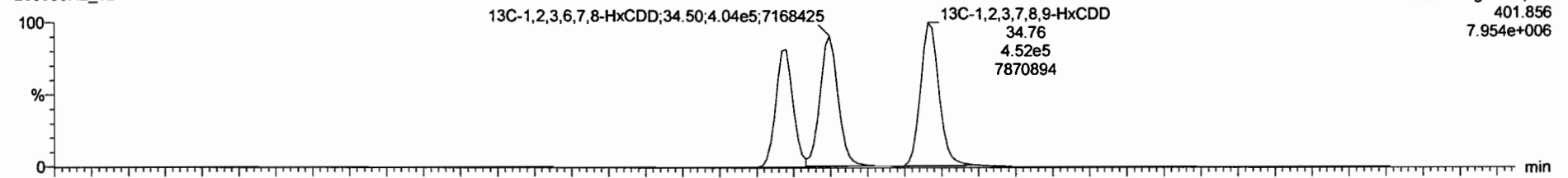


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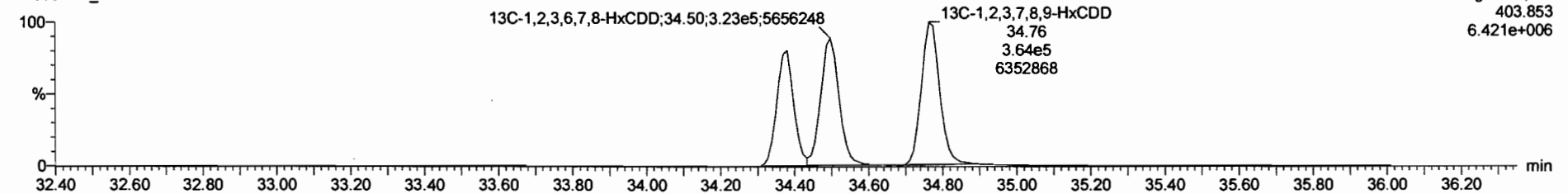


**13C-1,2,3,4,7,8-HxCDD**

200930R2\_12



200930R2\_12

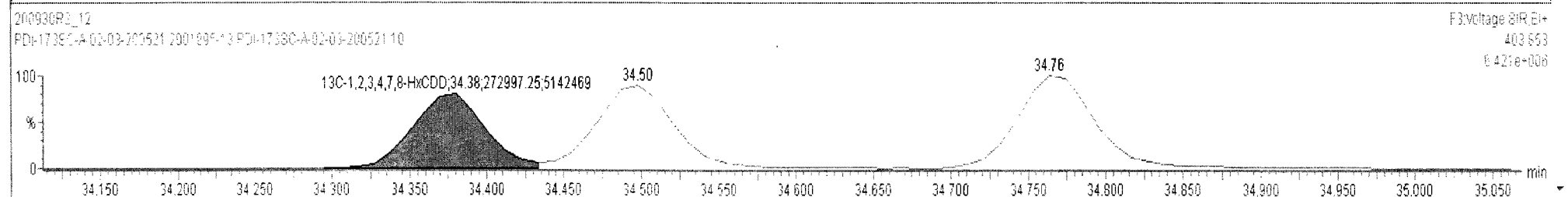
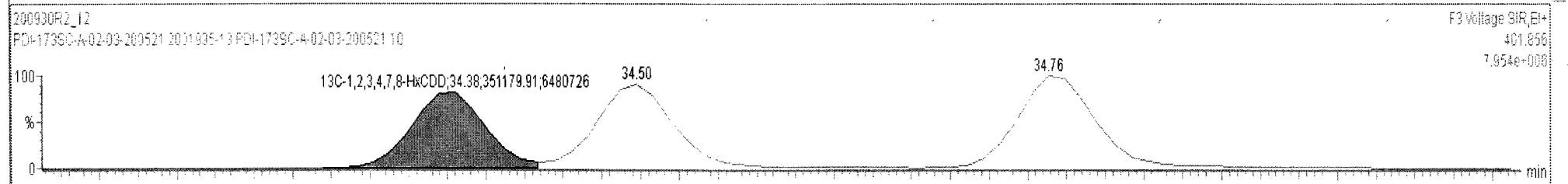
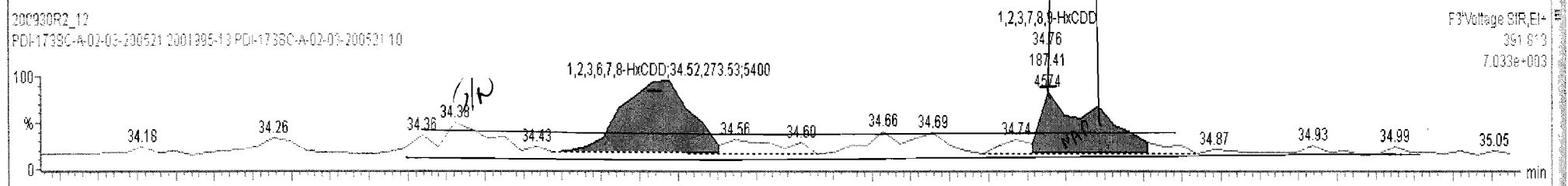
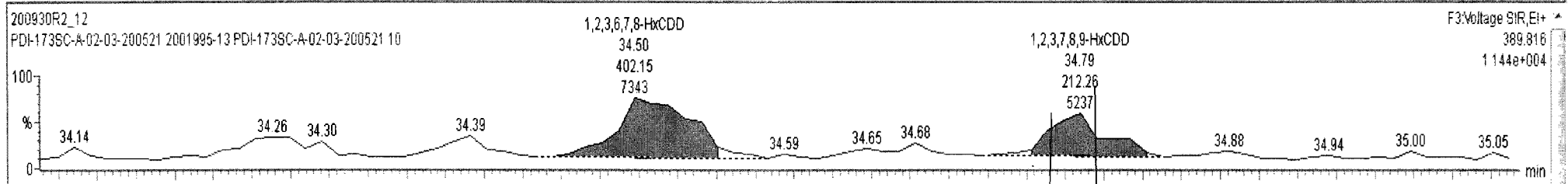


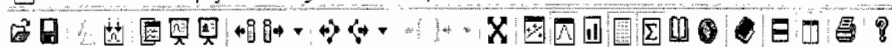


200930R2\_12 - 2001995-13 PDI-173SC-A-02-03-200521 10 - PDI-173SC-A-02-03-200521

Name	Resp	RA	rvy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.041					0.0255	
40 Total Penta-Dioxins				0.9561	10.041			0.150		0.0705	0.150
41 Total Hexa-Dioxins				0.8879	10.041			1.82		0.0846	2.01

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1 Total Hexa-Dioxins	32.74	1.752e3	1.414e3	1.24	NO	0.96312	0.96312
2 Total Hexa-Dioxins	33.65	1.374e3	9.883e2	1.39	NO	0.73365	0.73365
3 1,2,3,6,7,8-HxCDD	34.50	4.021e2	2.735e2	1.47	YES	0.18918	0.00000
4 1,2,3,7,8,9-HxCDD	34.79	2.123e2	1.874e2	1.13	NO	0.10728	0.10728

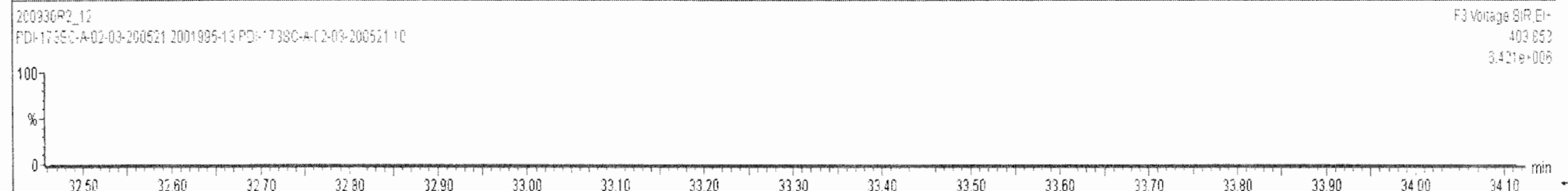
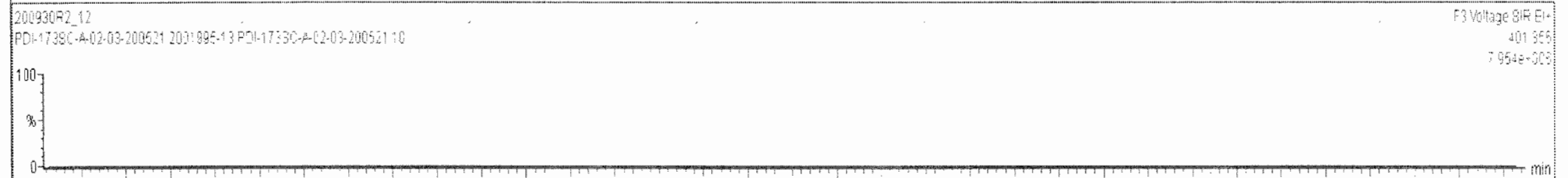
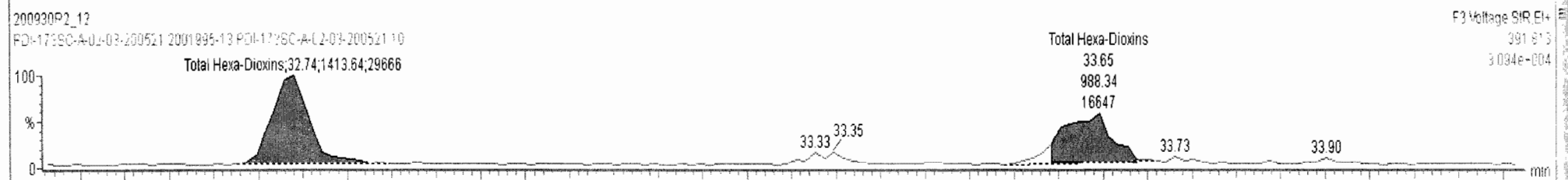
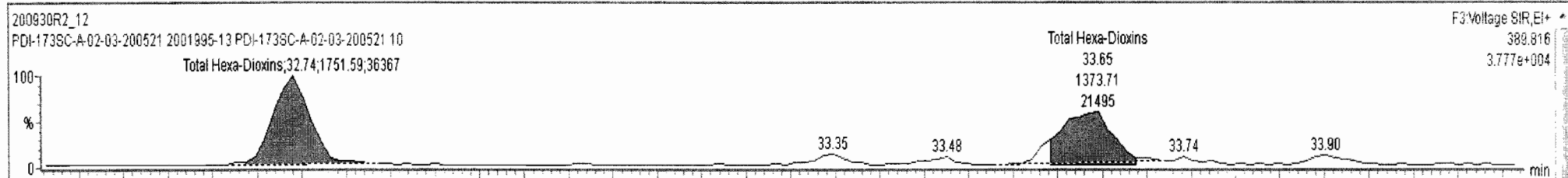




200930R2\_12 - 2001995-13 PDI-173SC-A-02-03-200521 10 - PDI-173SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.041					0.0255	
40 Total Penta-Dioxins				0.9561	10.041			0.150		0.0705	0.150
41 Total Hexa-Dioxins				0.8879	10.041			1.02		0.0846	2.01

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.74	1.752e3	1.414e3	1.24	NO	0.98312	0.98312
2 Total Hexa-Dioxins	33.65	1.374e3	9.883e2	1.39	NO	0.73365	0.73365
3 1,2,3,6,7,8-HxCDD	34.50	4.021e2	2.735e2	1.47	YES	0.18918	0.00000
4 1,2,3,7,8,9-HxCDD	34.79	2.123e2	1.874e2	1.13	NO	0.10728	0.10728



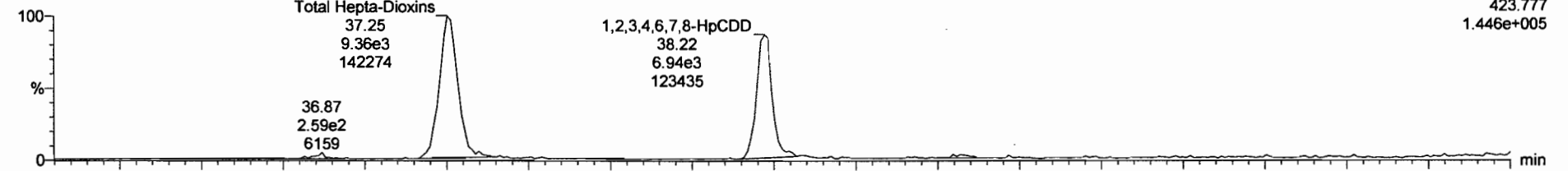
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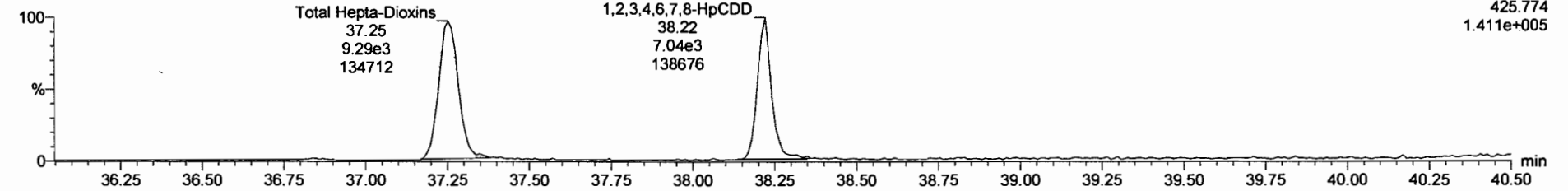
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1,2,3,4,6,7,8-HpCDD

200930R2\_12

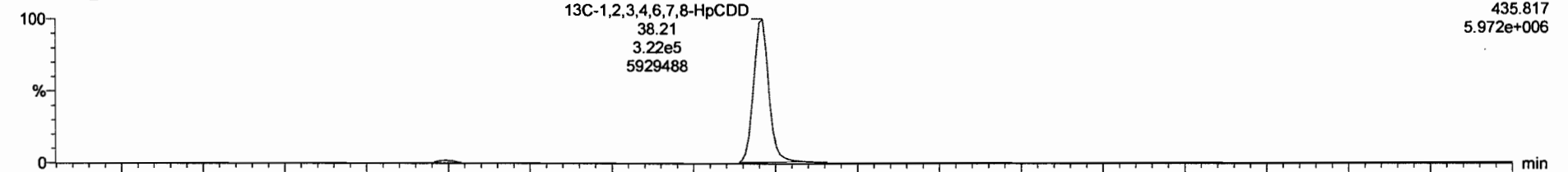


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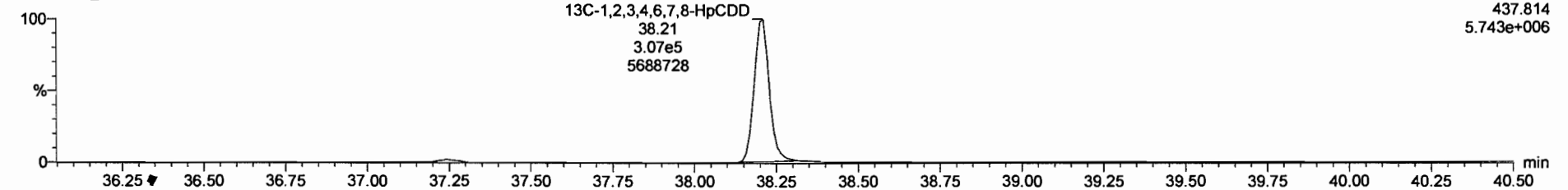


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200930R2\_12



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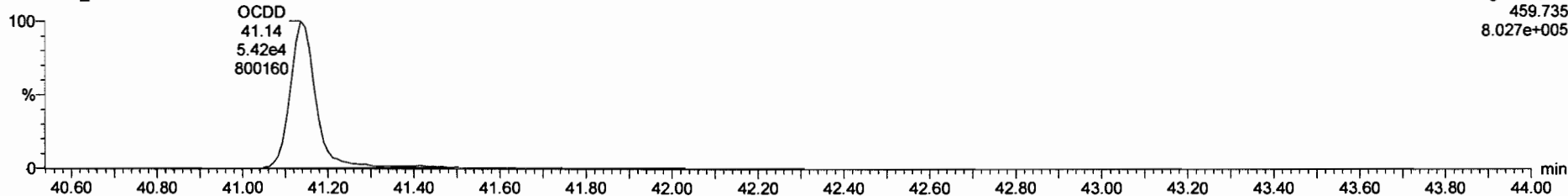
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**OCDD**

200930R2\_12



200930R2\_12

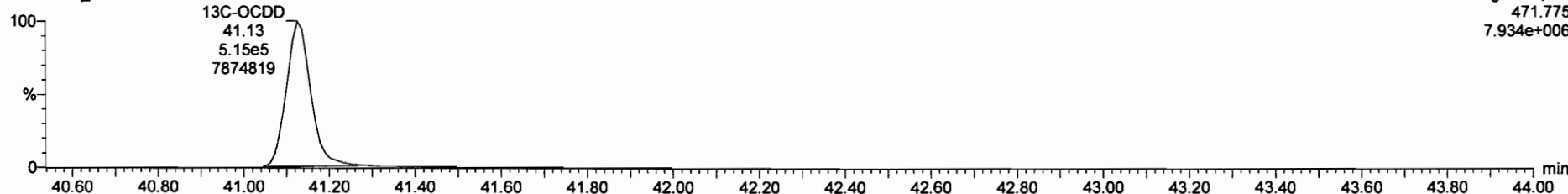


**13C-OCDD**

200930R2\_12



200930R2\_12



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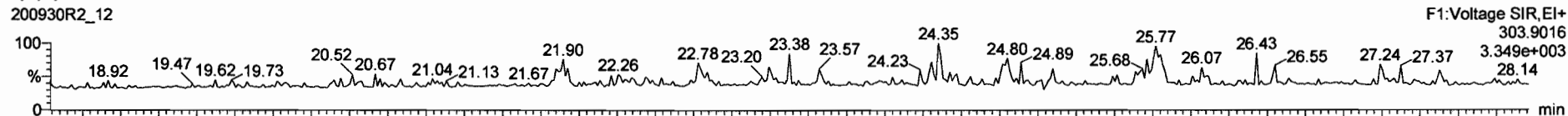
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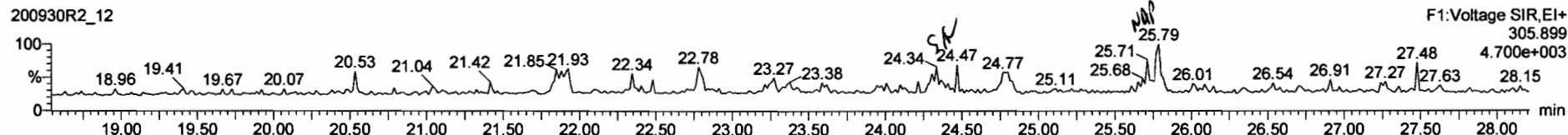
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**2,3,7,8-TCDF**

200930R2\_12

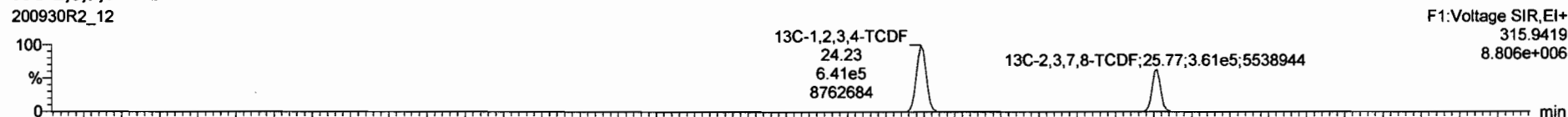


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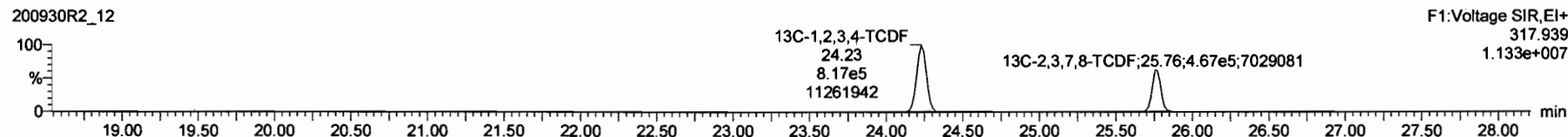


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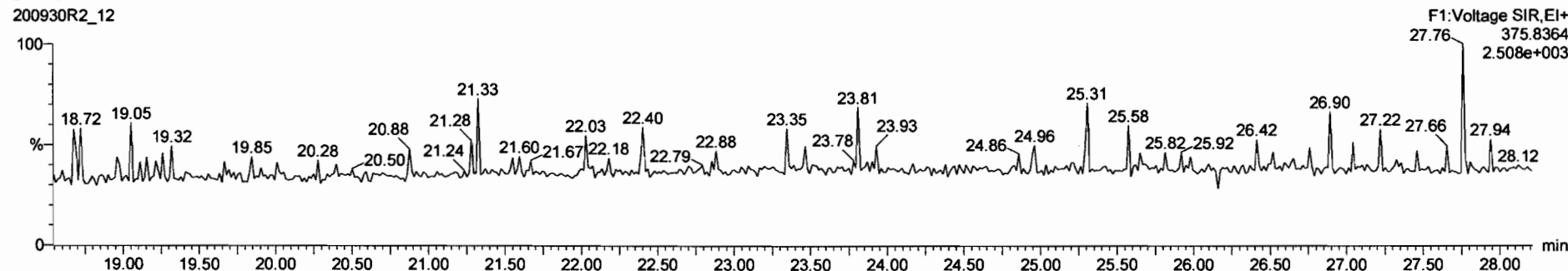


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**DPE1**

200930R2\_12



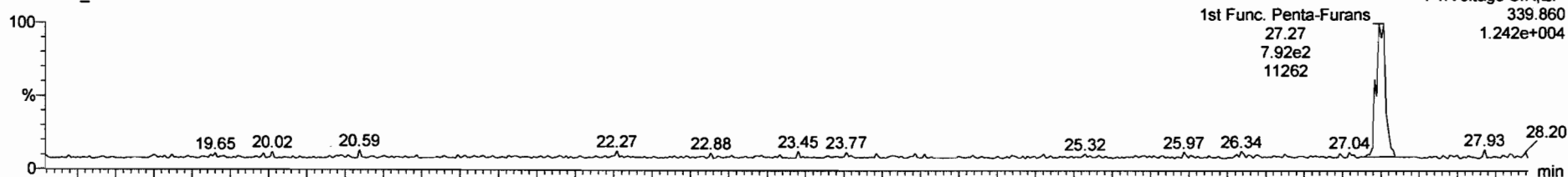
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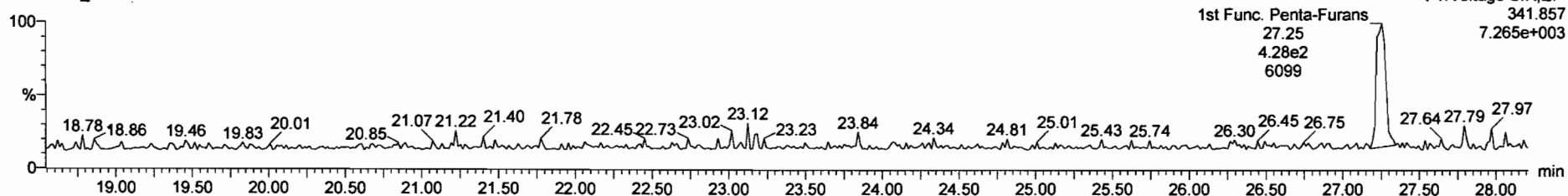
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1st Func. Penta-Furans

200930R2\_12

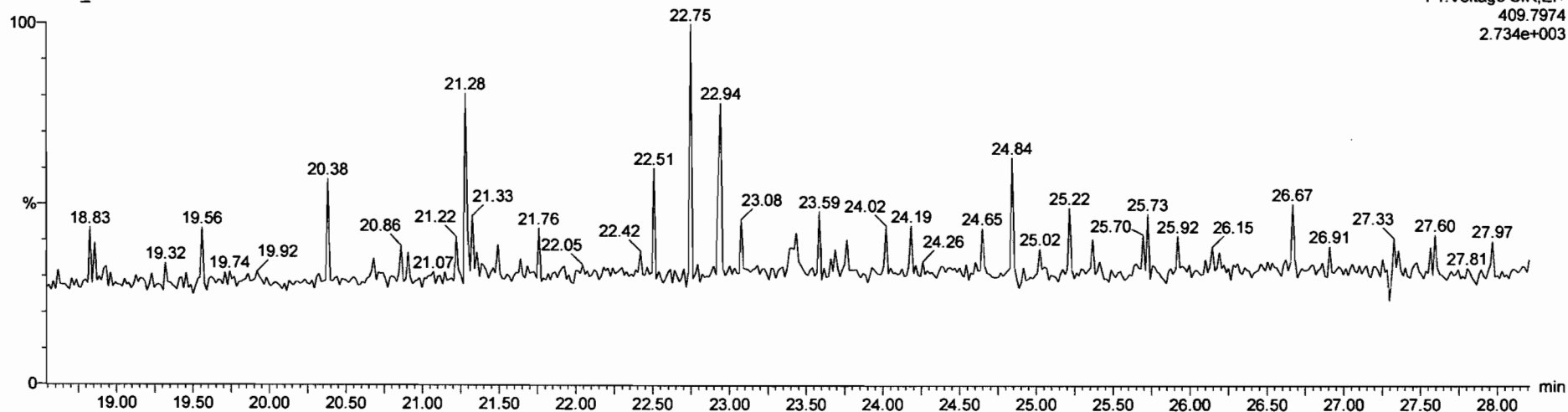


200930R2\_12



DPE6

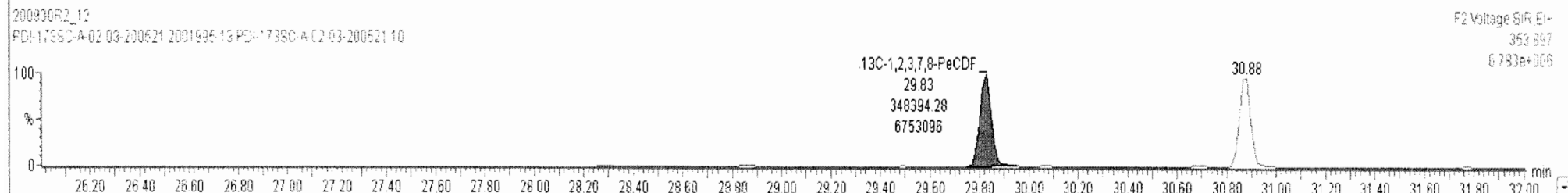
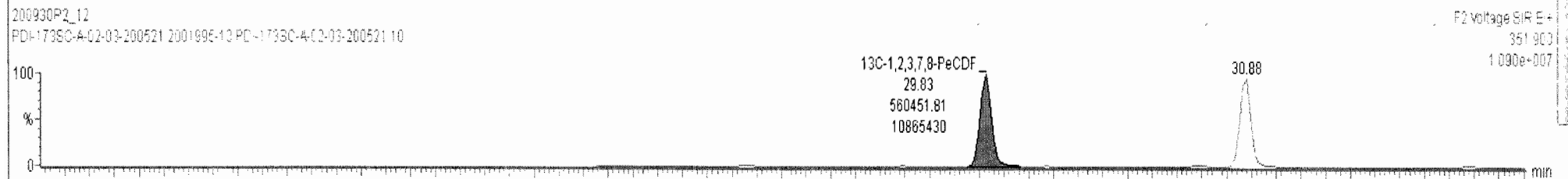
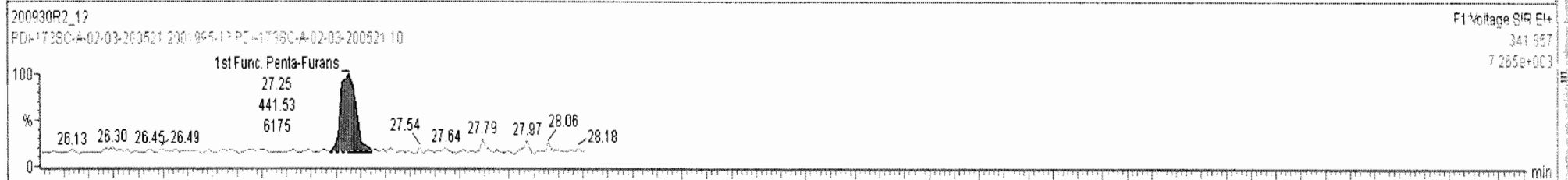
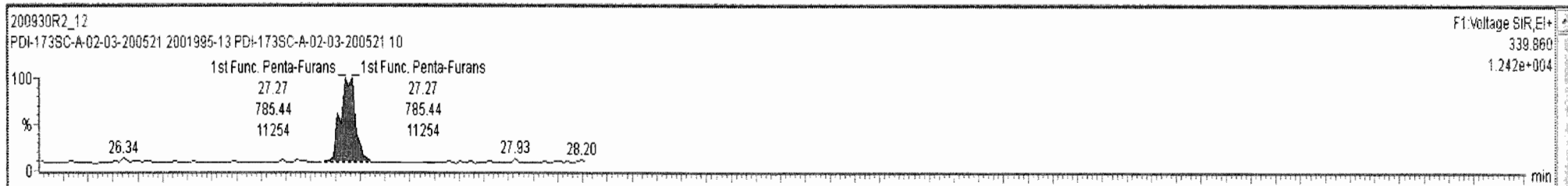
200930R2\_12



200930R2\_12 - 2001995-13 PDI-173SC-A-02-03-200521 10 - PDI-173SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.041					0.0274	
44 1st Func. Penta-Furans				0.9386	10.041			0.296		0.0277	0.296
45 Total Penta-Furans				0.9386	10.041			0.000		0.0279	0.242

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1st Func. Penta-Furans	27.27	7.854e2	4.415e2	1.78	NO	0.29560	0.29560



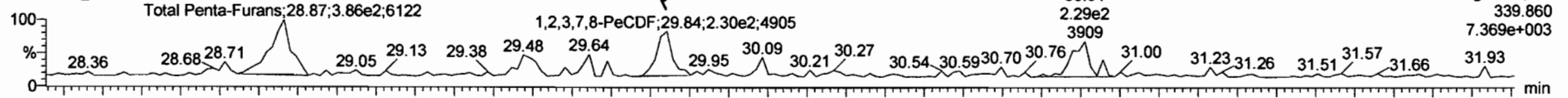
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Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

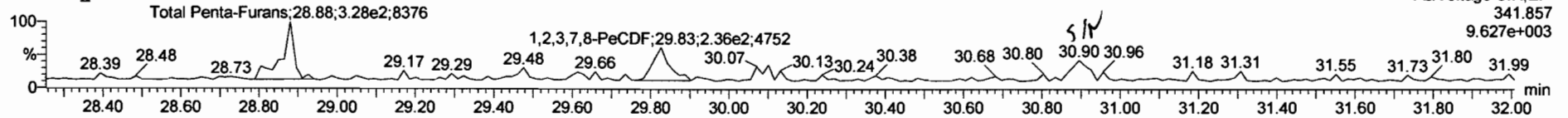
Name: 200930R2\_12, Date: 01-Oct-2020, Time: 05:59:34, ID: 2001995-13 PDI-173SC-A-02-03-200521 10, Description: PDI-173SC-A-02-03-200521

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

200930R2\_12

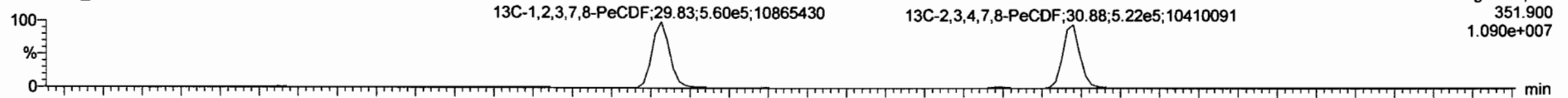


200930R2\_12

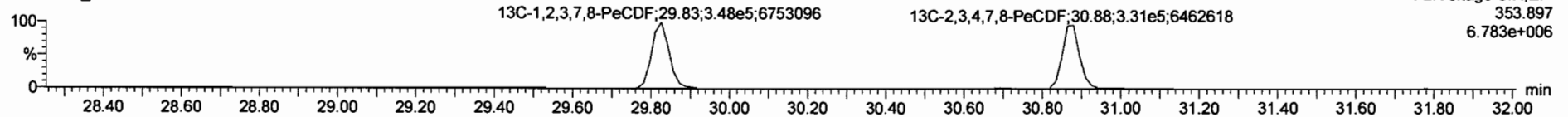


**13C-1,2,3,7,8-PeCDF**

200930R2\_12

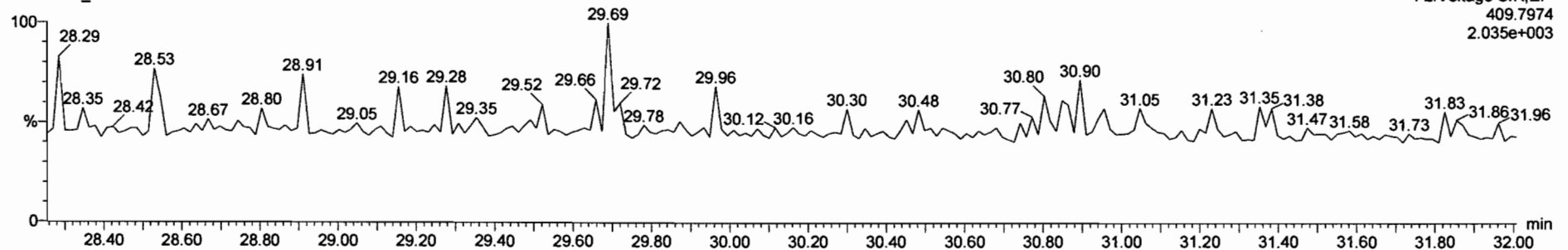


200930R2\_12



**DPE2**

200930R2\_12

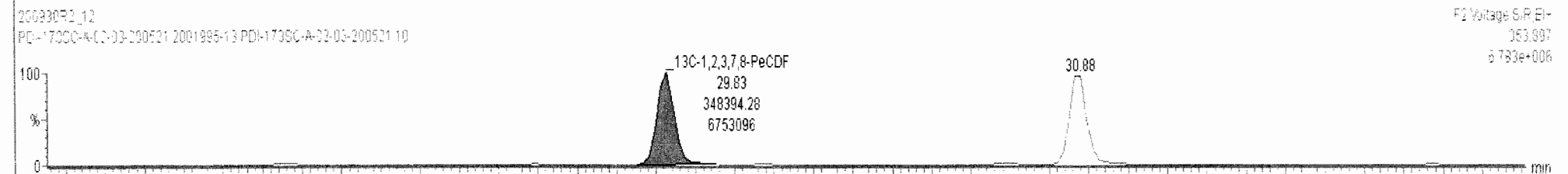
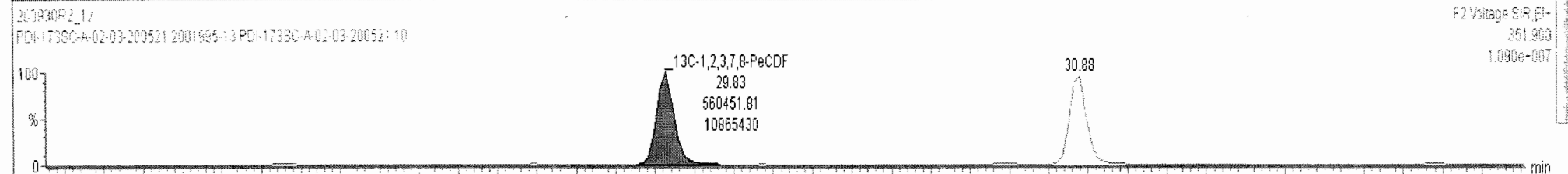
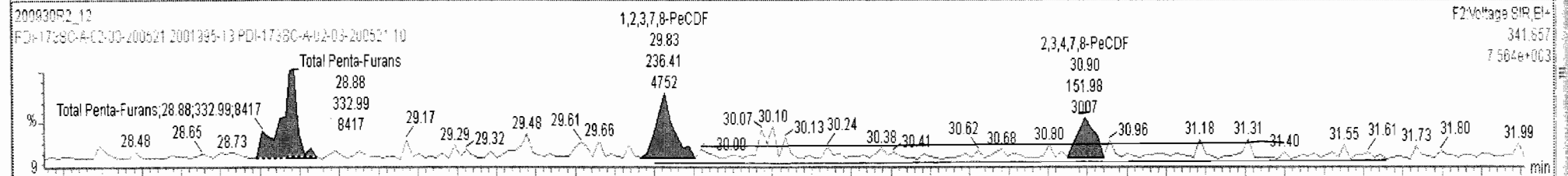
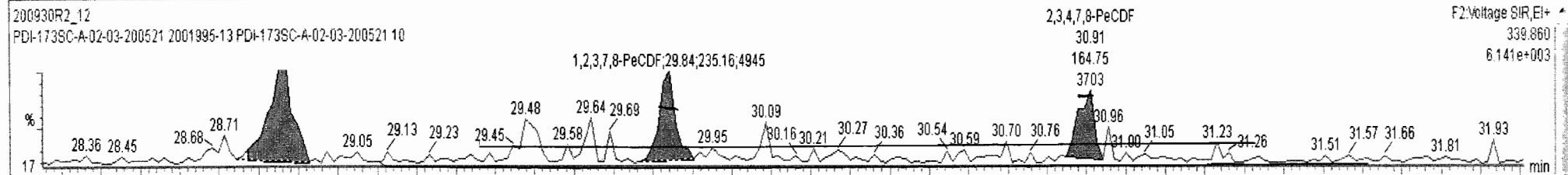




200930R2\_12 - 2001995-13 PDI-173SC-A-02-03-200521 10 - PDI-173SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.041					0.0274	
44 1st Func. Penta-Furans				0.9386	10.041			0.296		0.0277	0.296
45 Total Penta-Furans				0.9386	10.041			0.000		0.0279	0.304

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.87	3.865e2	3.330e2	1.16	YES	0.15318	0.00000
2 1,2,3,7,8-PeCDF	29.84	2.352e2	2.364e2	0.99	YES	0.090341	0.00000
3 2,3,4,7,8-PeCDF	30.91	1.648e2	1.520e2	1.08	YES	0.060308	0.00000



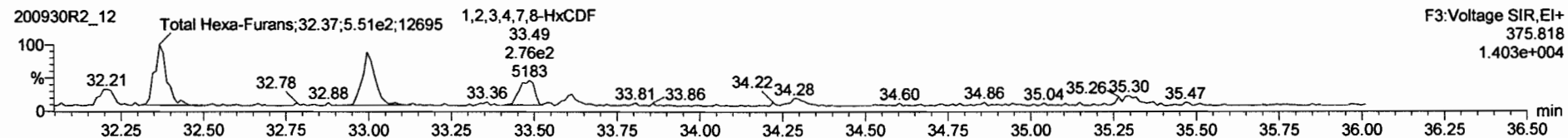
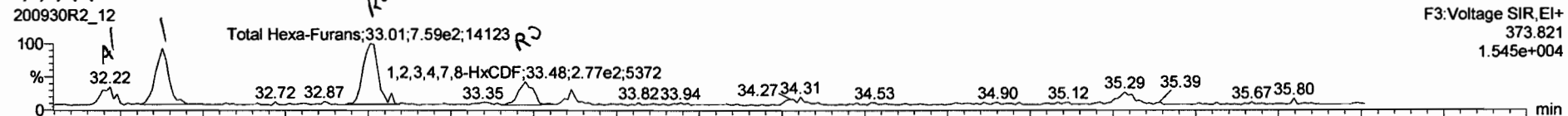
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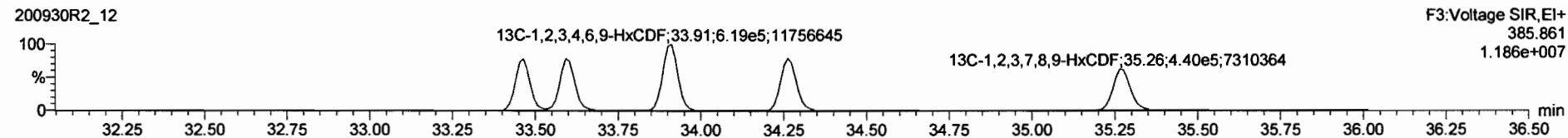
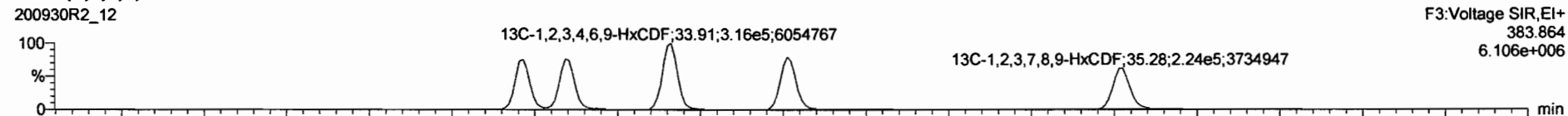
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Name: 200930R2\_12, Date: 01-Oct-2020, Time: 05:59:34, ID: 2001995-13 PDI-173SC-A-02-03-200521 10, Description: PDI-173SC-A-02-03-200521

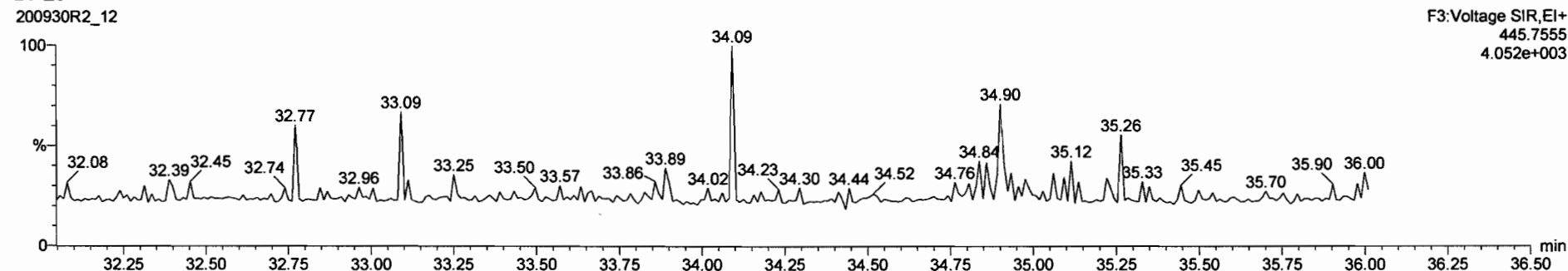
**1,2,3,4,7,8-HxCDF**



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



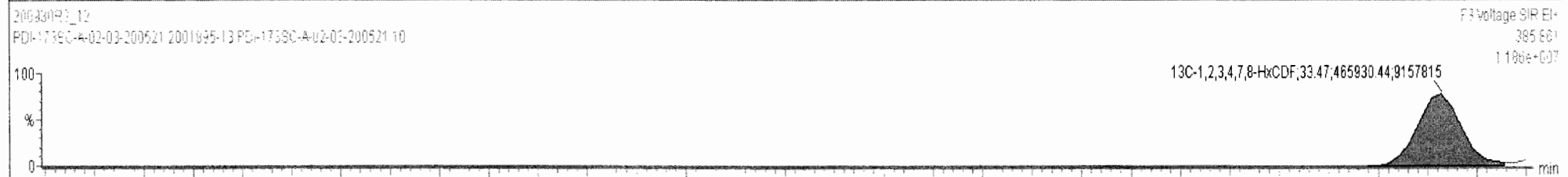
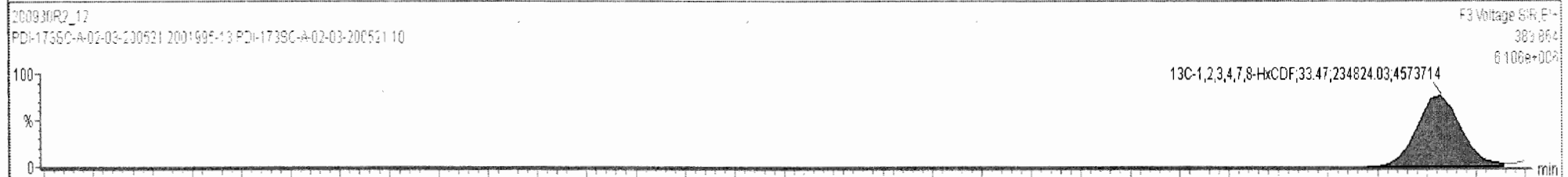
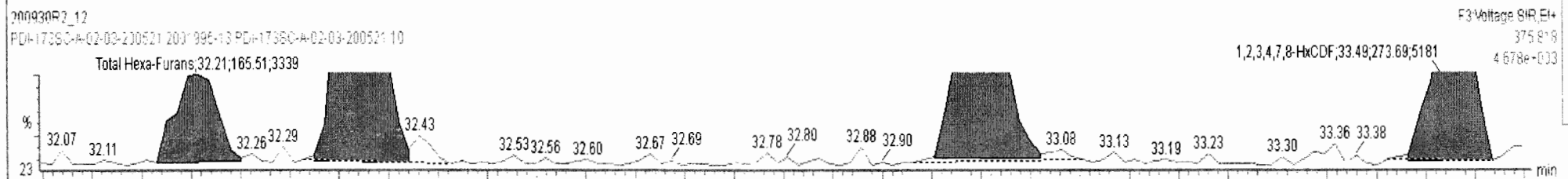
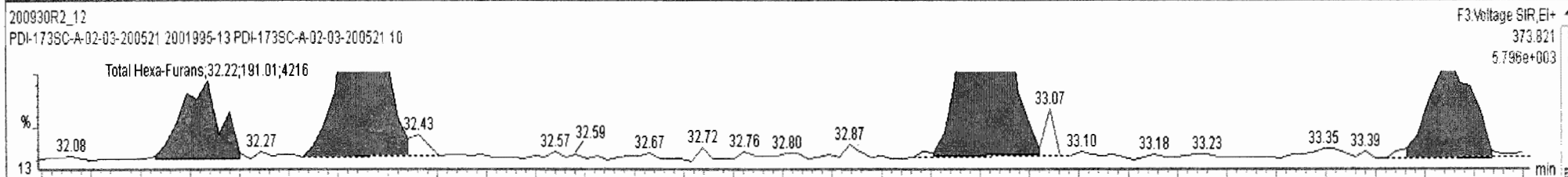
**DPE3**



200930R2\_12 - 2001995-13 PDI-1735C-A-02-03-200521 10 - PDI-1735C-A-02-03-200521

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.041			0.468		0.0531	0.974
47 Total Hepta-Furans				0.8908	10.041			1.89		0.0667	1.89
48 PFK1											

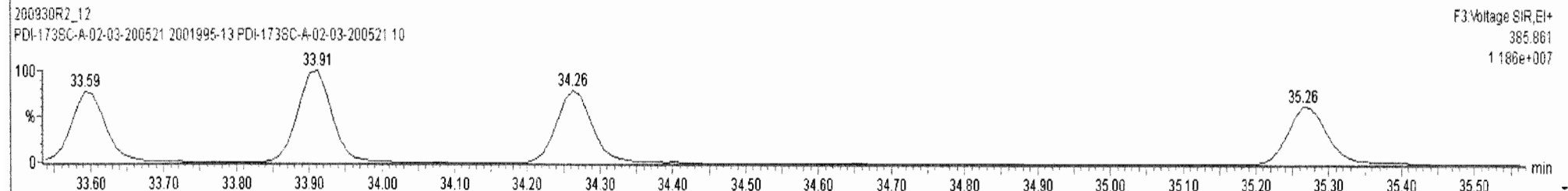
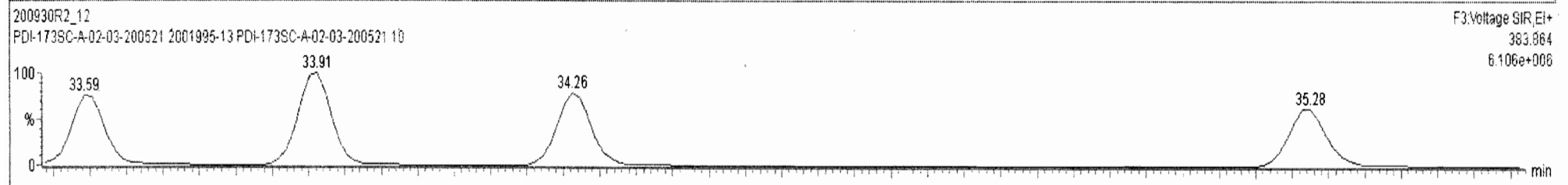
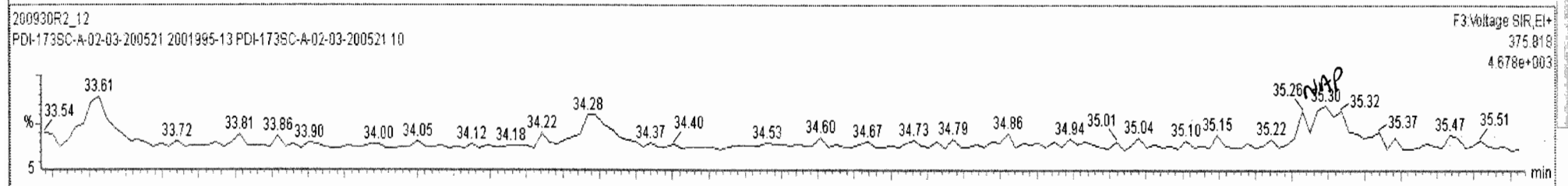
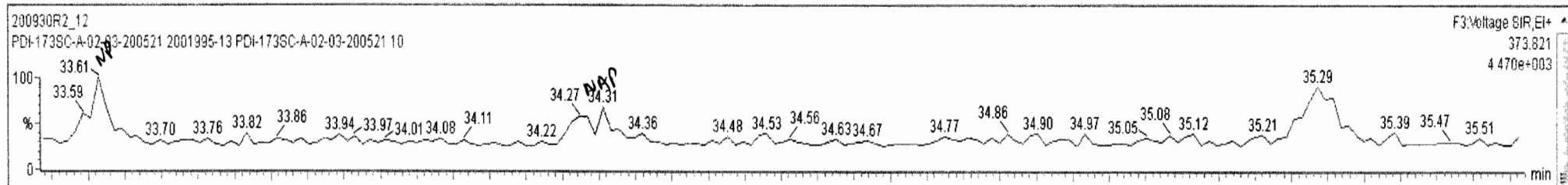
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.22	1.910e2	1.655e2	1.15	NO	0.11386	0.11386
2 Total Hexa-Furans	32.38	5.806e2	5.293e2	1.10	NO	0.35446	0.35446
3 Total Hexa-Furans	33.01	7.184e2	4.802e2	1.50	YES	0.34350	0.00000
4 1,2,3,4,7,8-HxCDF	33.48	2.657e2	2.737e2	0.97	YES	0.16206	0.00000



200930R2\_12 - 2001995-13 PDI-173SC-A-02-03-200521 10 - PDI-173SC-A-02-03-200521

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.041			0.468		0.0631	0.974
47 Total Hepta-Furans				0.8908	10.041			1.89		0.0687	1.89
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.22	1.910e2	1.655e2	1.15	NO	0.11386	0.11386
2 Total Hexa-Furans	32.38	5.806e2	5.293e2	1.10	NO	0.35446	0.35446
3 Total Hexa-Furans	33.01	7.184e2	4.802e2	1.50	YES	0.34350	0.00000
4 1,2,3,4,7,8-HxCDF	33.48	2.657e2	2.737e2	0.97	YES	0.16206	0.00000



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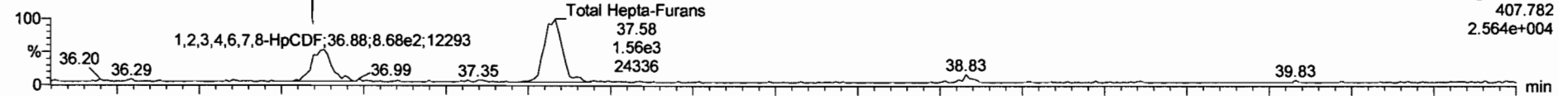
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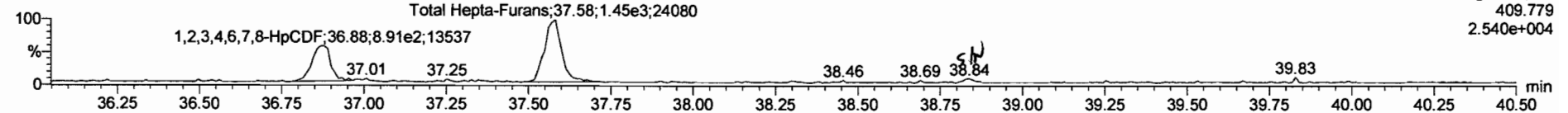
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**1,2,3,4,6,7,8-HpCDF**

200930R2\_12

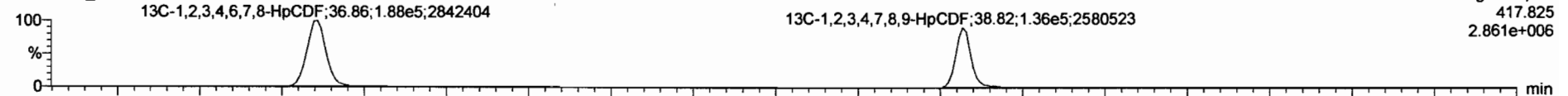


200930R2\_12

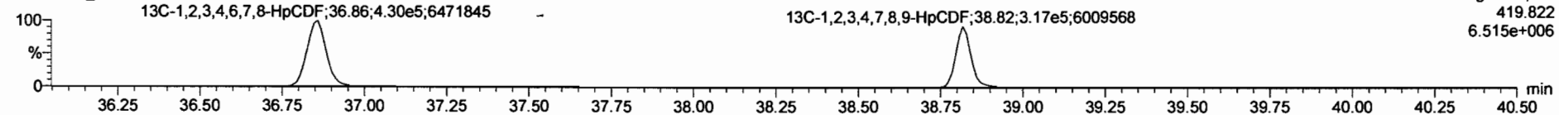


**13C-1,2,3,4,6,7,8-HpCDF**

200930R2\_12

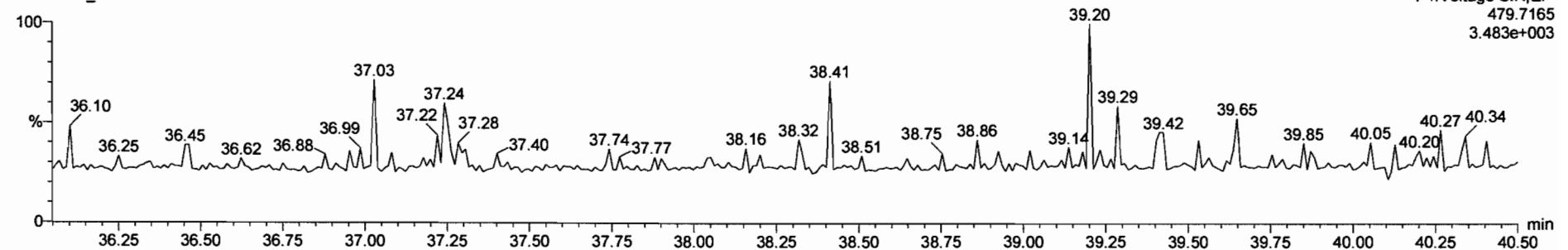


200930R2\_12



**DPE4**

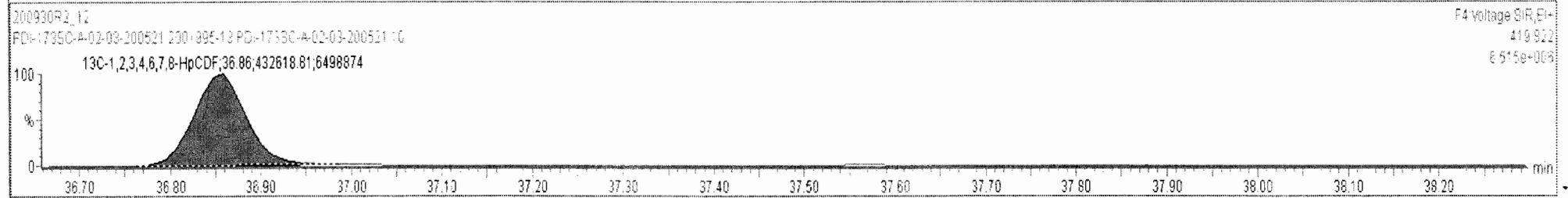
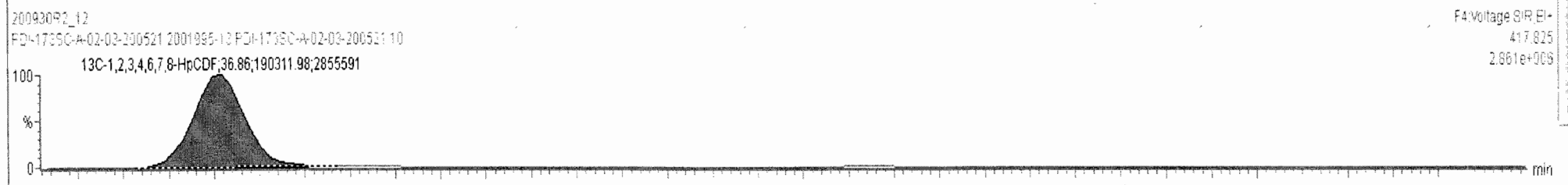
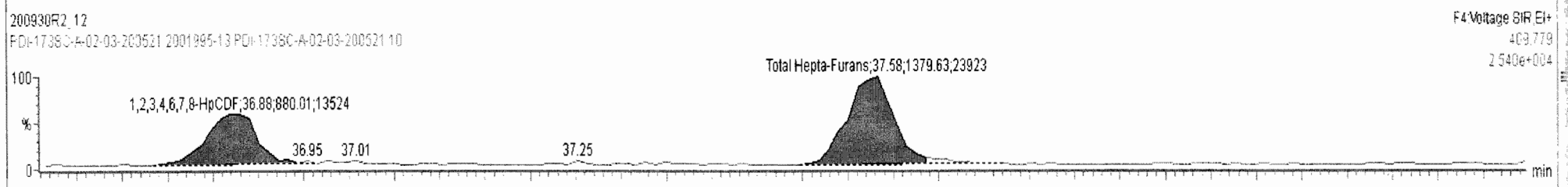
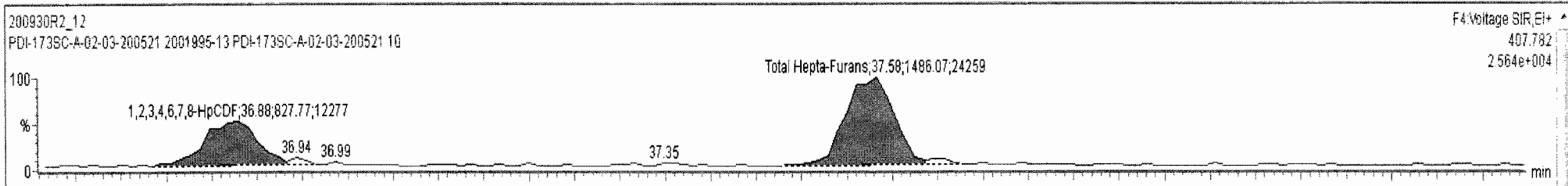
200930R2\_12



200930R2\_12 - 2001995-13 PDI-173SC-A-02-03-200521 10 - PDI-173SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.041			0.468		0.0531	0.974
47 Total Hepta-Furans				0.8908	10.041			1.80		0.0686	1.80
48 PFK1											

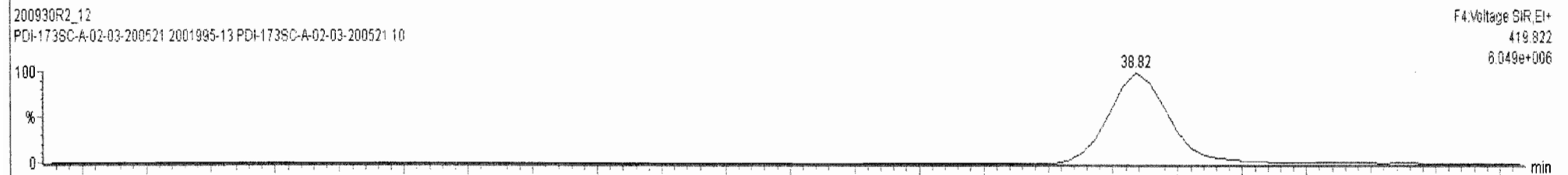
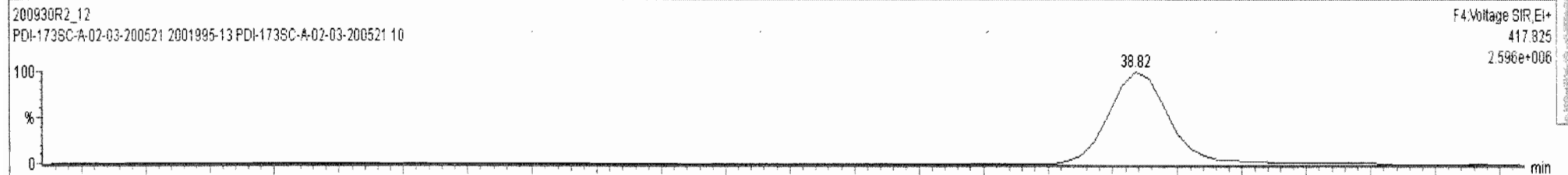
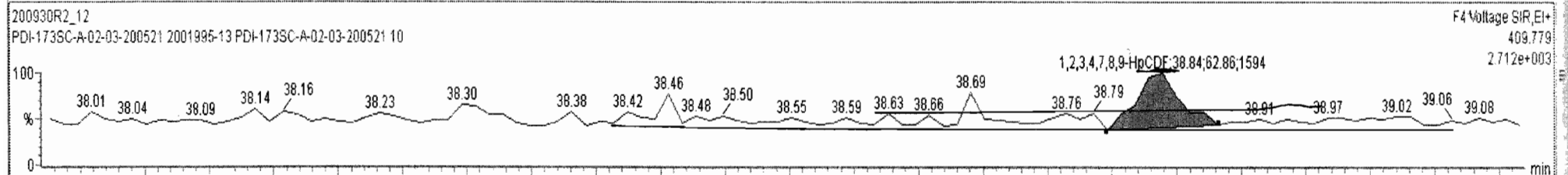
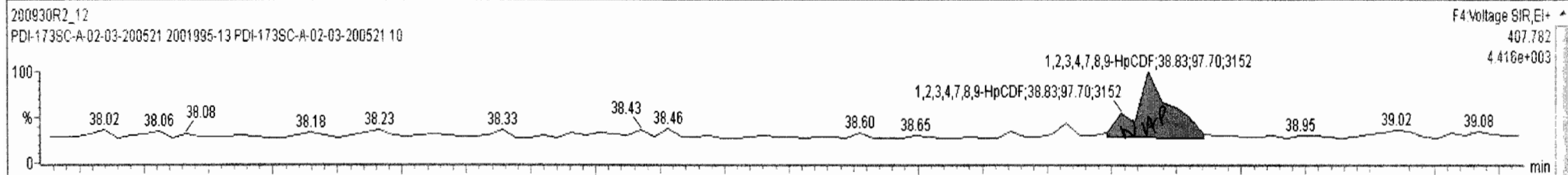
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.68	8.278e2	8.800e2	0.94	NO	0.61306	0.61306
2 Total Hepta-Furans	37.58	1.486e3	1.380e3	1.08	NO	1.1914	1.1914



200930R2\_12 - 2001995-13 PDI-173SC-A-02-03-200521 10 - PDI-173SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.041			0.468		0.0531	0.974
47 Total Hepta-Furans				0.8908	10.041			1.80		0.0666	1.86
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.88	8.278e2	8.600e2	0.94	NO	0.61306	0.61306
2 Total Hepta-Furans	37.58	1.486e3	1.380e3	1.08	NO	1.1914	1.1914
3 1,2,3,4,7,8,9-HpCDF	38.83	9.770e1	6.286e1	1.55	YES	0.056402	0.00000



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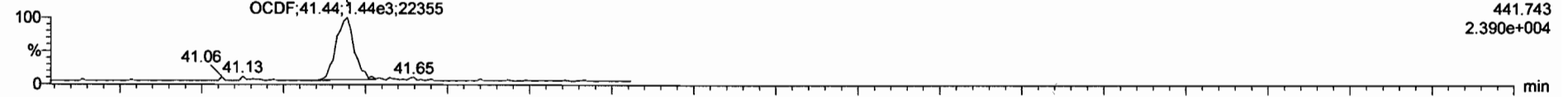
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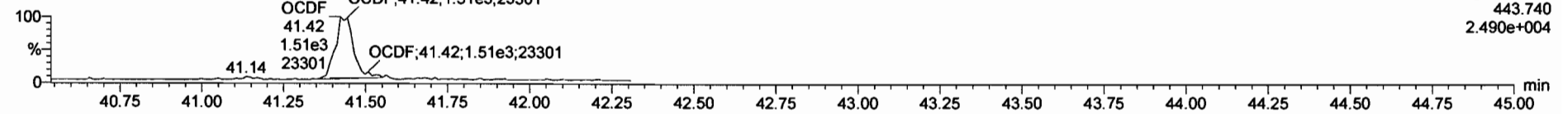
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**OCDF**

200930R2\_12

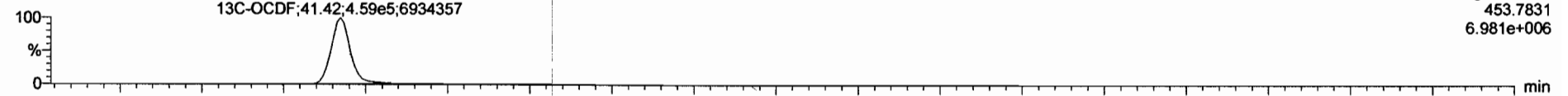


200930R2\_12

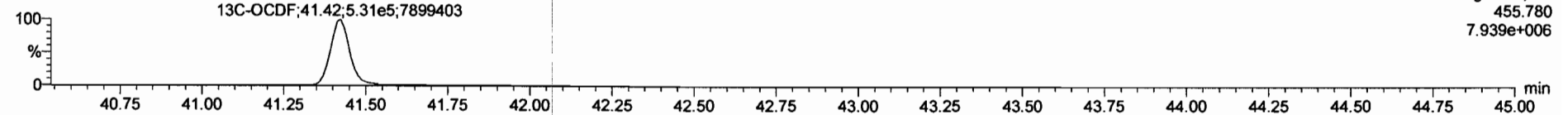


**13C-OCDF**

200930R2\_12

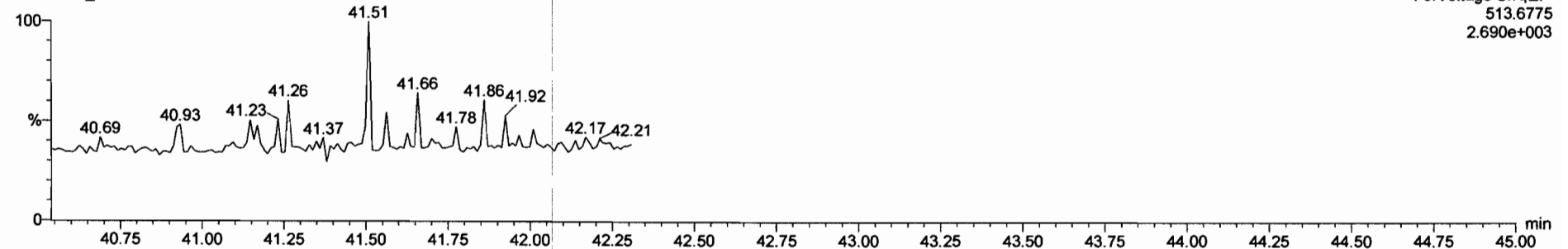


200930R2\_12



**DPE5**

200930R2\_12

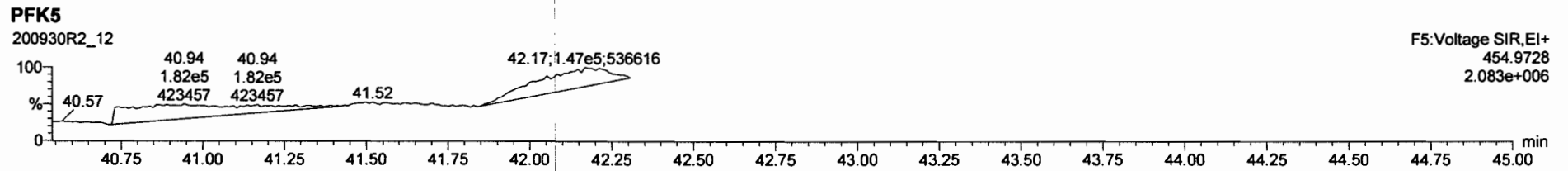
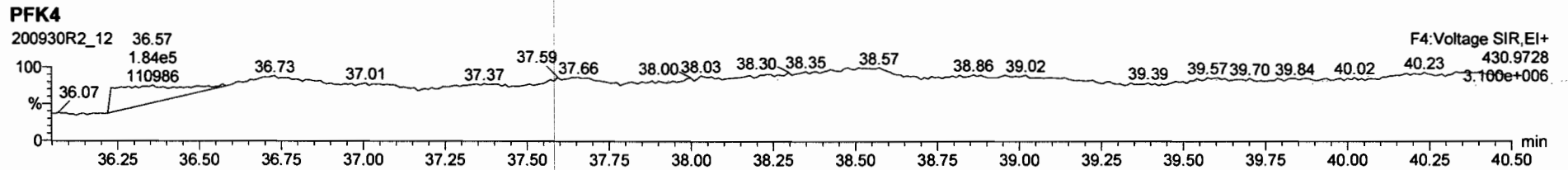
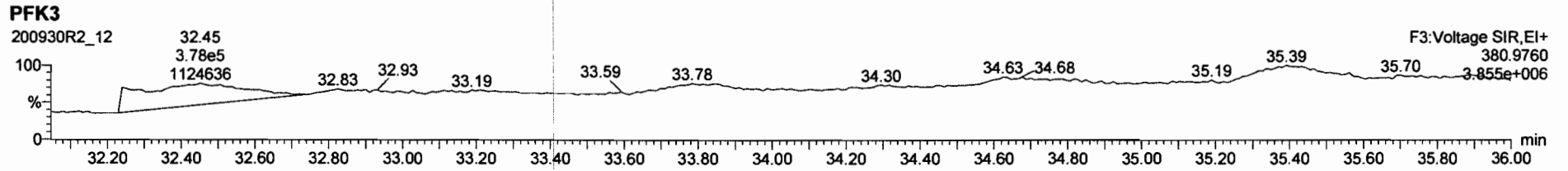
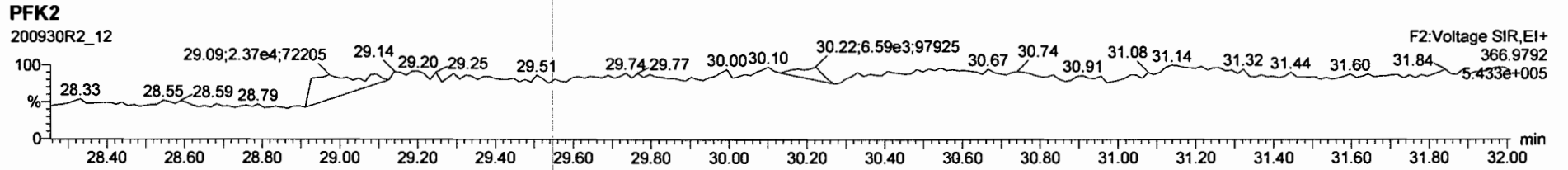
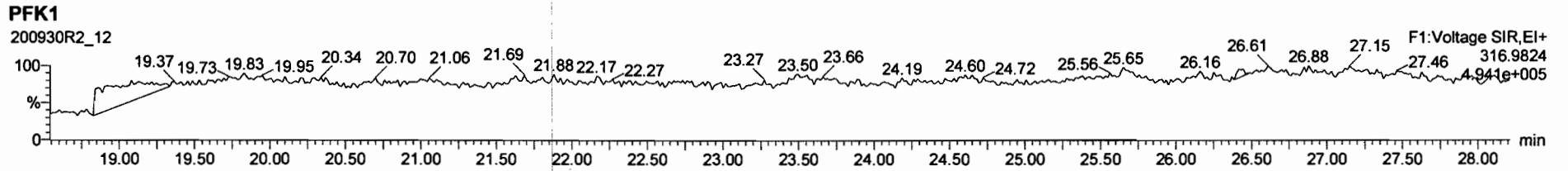




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*MW  
10/27/20*

Name: 200930R2\_13, Date: 01-Oct-2020, Time: 06:43:13, ID: 2001995-14 PDI-173SC-A-03-04-200521 10, Description: PDI-173SC-A-03-04-200521

#	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	1.19e3	0.28	YES	1.02	10.061	26.455	26.44	1.001	1.001	0.16891		0.0271	0.0840
2	2 1,2,3,7,8-PeCDD			NO	0.956	10.061	31.068		1.001				0.0487	
3	3 1,2,3,4,7,8-HxCDD			NO	1.00	10.061	34.367		1.000				0.0734	
4	4 1,2,3,6,7,8-HxCDD	2.29e3	1.30	NO	0.888	10.061	34.475	34.49	1.000	1.000	0.54993		0.0782	0.550
5	5 1,2,3,7,8,9-HxCDD			NO	0.909	10.061	34.762		1.000				0.0764	
6	6 1,2,3,4,6,7,8-HpCDD	3.79e4	1.03	NO	0.832	10.061	38.199	38.21	1.000	1.001	12.283		0.222	12.3
7	7 OCDD	2.59e5	0.86	NO	0.862	10.061	41.146	41.16	1.000	1.000	108.32		0.496	108
8	8 2,3,7,8-TCDF	1.29e3	0.76	NO	0.735	10.061	25.762	25.76	1.000	1.001	0.20131		0.0391	0.201
9	9 1,2,3,7,8-PeCDF	8.41e2	1.49	NO	0.939	10.061	29.831	29.83	1.001	1.001	0.11484		0.0411	0.115
10	10 2,3,4,7,8-PeCDF	1.44e3	1.71	NO	1.05	10.061	30.882	30.88	1.001	1.000	0.17545		0.0366	0.175
11	11 1,2,3,4,7,8-HxCDF	1.05e3	1.18	NO	0.842	10.061	33.442	33.46	1.000	1.001	0.23898		0.0420	0.239
12	12 1,2,3,6,7,8-HxCDF	8.73e2	1.21	NO	0.894	10.061	33.590	33.59	1.000	1.000	0.18928		0.0406	0.189
13	13 2,3,4,6,7,8-HxCDF	8.29e2	1.25	NO	0.870	10.061	34.272	34.28	1.001	1.001	0.18955		0.0468	0.190
14	14 1,2,3,7,8,9-HxCDF	2.23e2	0.85	YES	0.855	10.061	35.273	35.27	1.001	1.001	0.059057		0.0591	0.0491
15	15 1,2,3,4,6,7,8-HpCDF	5.01e3	0.97	NO	0.891	10.061	36.873	36.85	1.001	1.000	1.5447		0.0683	1.54
16	16 1,2,3,4,7,8,9-HpCDF	3.28e2	0.89	NO	1.00	10.061	38.817	38.81	1.000	1.000	0.11276		0.0641	0.113
17	17 OCDF	9.81e3	0.85	NO	0.784	10.061	41.433	41.47	1.000	1.001	4.2936		0.118	4.29
18	18 13C-2,3,7,8-TCDD	1.37e6	0.79	NO	1.15	10.061	26.411	26.42	1.029	1.029	188.04	94.6	0.123	
19	19 13C-1,2,3,7,8-PeCDD	1.15e6	0.63	NO	0.887	10.061	31.001	31.05	1.207	1.209	203.95	103	0.140	
20	20 13C-1,2,3,4,7,8-HxCDD	8.43e5	1.26	NO	0.801	10.061	34.360	34.36 ✓	1.014	1.014	188.76	95.0	0.265	
21	21 13C-1,2,3,6,7,8-HxCDD	9.33e5	1.26	NO	0.892	10.061	34.489	34.47 ✓	1.018	1.017	187.49	94.3	0.238	
22	22 13C-1,2,3,7,8,9-HxCDD	9.09e5	1.25	NO	0.882	10.061	34.750	34.75 ✓	1.025	1.025	184.70	92.9	0.240	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.38e5	1.04	NO	0.719	10.061	38.183	38.19	1.127	1.127	184.04	92.6	0.461	
24	24 13C-OCDD	1.10e6	0.88	NO	0.563	10.061	41.111	41.15	1.213	1.214	351.14	88.3	0.630	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.01	10.061	25.754	25.75	1.003	1.003	188.52	94.8	0.149	
26	26 13C-1,2,3,7,8-PeCDF	1.55e6	1.58	NO	0.814	10.061	29.761	29.81	1.159	1.161	208.98	105	0.379	
27	27 13C-2,3,4,7,8-PeCDF	1.56e6	1.60	NO	0.768	10.061	30.799	30.86	1.200	1.202	222.60	112	0.402	
28	28 13C-1,2,3,4,7,8-HxCDF	1.03e6	0.50	NO	0.993	10.061	33.438	33.44 ✓	0.987	0.987	186.93	94.0	0.377	
29	29 13C-1,2,3,6,7,8-HxCDF	1.03e6	0.51	NO	0.990	10.061	33.581	33.58 ✓	0.991	0.991	185.72	93.4	0.378	
30	30 13C-2,3,4,6,7,8-HxCDF	9.99e5	0.49	NO	0.944	10.061	34.248	34.25 ✓	1.011	1.011	189.84	95.5	0.396	

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-13a.qld

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Name: 200930R2\_13, Date: 01-Oct-2020, Time: 06:43:13, ID: 2001995-14 PDI-173SC-A-03-04-200521 10, Description: PDI-173SC-A-03-04-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	8.76e5	0.51	NO	0.842	10.061	35.265	35.25	1.041	1.040	186.69	93.9	0.445	
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.23e5	0.43	NO	0.687	10.061	36.854	36.84	1.087	1.087	188.84	95.0	0.504	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.78e5	0.43	NO	0.555	10.061	38.803	38.82	1.145	1.145	186.94	94.0	0.624	
34	34 13C-OCDF	1.16e6	0.87	NO	0.608	10.061	41.392	41.43	1.221	1.223	341.77	86.0	0.513	
35	35 37Cl-2,3,7,8-TCDD	4.92e5			1.18	10.061	26.442	26.44	1.030	1.030	65.862	82.8	0.0583	
36	36 13C-1,2,3,4-TCDD	1.26e6	0.79	NO	1.00	10.061	25.740	25.67	1.000	1.000	198.79	100	0.141	
37	37 13C-1,2,3,4-TCDF	1.81e6	0.78	NO	1.00	10.061	24.310	24.22	1.000	1.000	198.79	100	0.150	
38	38 13C-1,2,3,4,6,9-HxCDF	1.11e6	0.51	NO	1.00	10.061	33.920	33.89	1.000	1.000	198.79	100	0.374	
39	39 Total Tetra-Dioxins				1.02	10.061	24.620		0.000		0.41174		0.0271	0.552
40	40 Total Penta-Dioxins				0.956	10.061	29.960		0.000		0.67365		0.0487	0.674
41	41 Total Hexa-Dioxins				0.888	10.061	33.635		0.000		4.9573		0.0797	5.05
42	42 Total Hepta-Dioxins				0.832	10.061	37.640		0.000		27.385		0.222	27.4
43	43 Total Tetra-Furans				0.735	10.061	23.610		0.000		1.0173		0.0391	1.17
44	44 1st Func. Penta-Furans				0.939	10.061	27.230		0.000		1.3292		0.0124	1.33
45	45 Total Penta-Furans				0.939	10.061	29.275		0.000		0.96700		0.0410	1.22
46	46 Total Hexa-Furans				0.870	10.061	33.555		0.000		3.7291		0.0464	3.78
47	47 Total Hepta-Furans				0.891	10.061	37.835		0.000		5.4873		0.0700	5.49

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Name: 200930R2\_13, Date: 01-Oct-2020, Time: 06:43:13, ID: 2001995-14 PDI-173SC-A-03-04-200521 10, Description: PDI-173SC-A-03-04-200521

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.77	6.862e3	8.131e3	4.851e2	6.309e2	0.77	NO	1.116e3	0.15890	0.15890	0.0271
2	Total Tetra-Dioxins	23.07	3.832e3	3.448e3	2.207e2	2.217e2	1.00	YES	0.000e0	0.00000	0.055871	0.0271
3	Total Tetra-Dioxins	24.42	7.488e3	8.938e3	5.050e2	5.976e2	0.85	NO	1.103e3	0.15699	0.15699	0.0271
4	Total Tetra-Dioxins	26.17	4.119e3	6.329e3	2.778e2	3.954e2	0.70	NO	6.732e2	0.095851	0.095851	0.0271
5	2,3,7,8-TCDD	26.44	3.992e3	1.328e4	2.566e2	9.298e2	0.28	YES	1.186e3	0.00000	0.083969	0.0271

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.80	1.201e4	1.696e4	9.152e2	1.271e3	0.72	NO	2.186e3	0.39624	0.39624	0.0487
2	Total Penta-Dioxins	29.29	4.288e3	7.222e3	2.009e2	3.335e2	0.60	NO	5.343e2	0.096844	0.096844	0.0487
3	Total Penta-Dioxins	30.28	5.997e3	7.692e3	3.806e2	6.156e2	0.62	NO	9.962e2	0.18057	0.18057	0.0487

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	8.504e4	7.888e4	4.475e3	3.703e3	1.21	NO	8.178e3	2.0459	2.0459	0.0797
2	Total Hexa-Dioxins	33.32	8.774e3	7.145e3	4.421e2	3.876e2	1.14	NO	8.297e2	0.20757	0.20757	0.0797
3	Total Hexa-Dioxins	33.62	6.663e4	5.550e4	4.649e3	3.960e3	1.17	NO	8.610e3	2.1540	2.1540	0.0797
4	Total Hexa-Dioxins	33.72	5.564e3	5.434e3	2.136e2	2.089e2	1.02	YES	0.000e0	0.00000	0.096513	0.0797
5	1,2,3,6,7,8-HxCDD	34.49	1.950e4	1.696e4	1.296e3	9.944e2	1.30	NO	2.291e3	0.54993	0.54993	0.0782

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.23	2.887e5	2.833e5	2.368e4	2.294e4	1.03	NO	4.662e4	15.103	15.103	0.222
2	1,2,3,4,6,7,8-HpCDD	38.21	2.876e5	2.794e5	1.919e4	1.872e4	1.03	NO	3.791e4	12.283	12.283	0.222

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Name: 200930R2\_13, Date: 01-Oct-2020, Time: 06:43:13, ID: 2001995-14 PDI-173SC-A-03-04-200521 10, Description: PDI-173SC-A-03-04-200521

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.09	3.100e3	4.096e3	2.754e2	3.459e2	0.80	NO	6.213e2	0.096838	0.096838	0.0391
2	Total Tetra-Furans	21.90	1.009e4	1.644e4	1.023e3	1.446e3	0.71	NO	2.469e3	0.38489	0.38489	0.0391
3	Total Tetra-Furans	22.80	6.291e3	7.662e3	5.889e2	7.200e2	0.82	NO	1.309e3	0.20401	0.20401	0.0391
4	Total Tetra-Furans	23.58	4.791e3	7.793e3	3.381e2	4.976e2	0.68	NO	8.356e2	0.13025	0.13025	0.0391
5	Total Tetra-Furans	24.79	7.432e3	8.320e3	5.050e2	5.631e2	0.90	YES	0.000e0	0.00000	0.15537	0.0391
6	2,3,7,8-TCDF	25.76	1.006e4	1.386e4	5.593e2	7.323e2	0.76	NO	1.292e3	0.20131	0.20131	0.0391

**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	27.23	1.007e5	5.926e4	6.113e3	3.641e3	1.68	NO	9.754e3	1.3292	1.3292	0.0124

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.68	8.641e3	5.446e3	5.060e2	3.475e2	1.46	NO	8.534e2	0.11630	0.11630	0.0410
2	Total Penta-Furans	28.83	3.199e4	2.385e4	2.397e3	1.716e3	1.40	NO	4.112e3	0.56041	0.56041	0.0410
3	Total Penta-Furans	29.47	1.094e4	9.862e3	7.317e2	5.809e2	1.26	YES	0.000e0	0.00000	0.16403	0.0410
4	1,2,3,7,8-PeCDF	29.83	8.750e3	7.245e3	5.033e2	3.375e2	1.49	NO	8.408e2	0.11484	0.11484	0.0411
5	Total Penta-Furans	30.08	8.110e3	7.224e3	4.007e2	3.183e2	1.26	YES	0.000e0	0.00000	0.089834	0.0410
6	2,3,4,7,8-PeCDF	30.88	2.147e4	9.797e3	9.112e2	5.319e2	1.71	NO	1.443e3	0.17545	0.17545	0.0366

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**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.20	1.633e4	1.391e4	7.998e2	6.092e2	1.31	NO	1.409e3	0.32727	0.32727	0.0464
2	Total Hexa-Furans	32.36	4.696e4	3.798e4	2.555e3	2.166e3	1.18	NO	4.721e3	1.0967	1.0967	0.0464
3	Total Hexa-Furans	32.98	7.106e4	6.865e4	3.801e3	3.244e3	1.17	NO	7.044e3	1.6362	1.6362	0.0464
4	1,2,3,4,7,8-HxCDF	33.46	1.169e4	9.846e3	5.667e2	4.804e2	1.18	NO	1.047e3	0.23898	0.23898	0.0420
5	1,2,3,6,7,8-HxCDF	33.59	8.626e3	5.801e3	4.783e2	3.942e2	1.21	NO	8.725e2	0.18928	0.18928	0.0406
6	2,3,4,6,7,8-HxCDF	34.28	8.808e3	6.994e3	4.602e2	3.689e2	1.25	NO	8.291e2	0.18955	0.18955	0.0468
7	1,2,3,7,8,9-HxCDF	35.27	2.549e3	3.141e3	1.024e2	1.202e2	0.85	YES	2.226e2	0.00000	0.049088	0.0591
8	Total Hexa-Furans	35.31	3.232e3	3.141e3	1.204e2	9.989e1	1.21	NO	2.203e2	0.051165	0.051165	0.0464

**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	36.85	3.301e4	3.147e4	2.460e3	2.546e3	0.97	NO	5.005e3	1.5447	1.5447	0.0683
2	Total Hepta-Furans	37.56	7.968e4	8.093e4	5.643e3	5.521e3	1.02	NO	1.116e4	3.8298	3.8298	0.0700
3	1,2,3,4,7,8,9-HpCDF	38.81	2.500e3	3.862e3	1.542e2	1.736e2	0.89	NO	3.279e2	0.11276	0.11276	0.0641

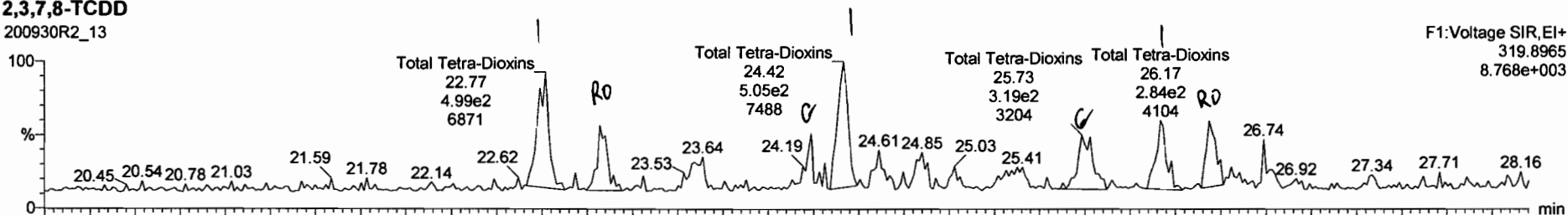
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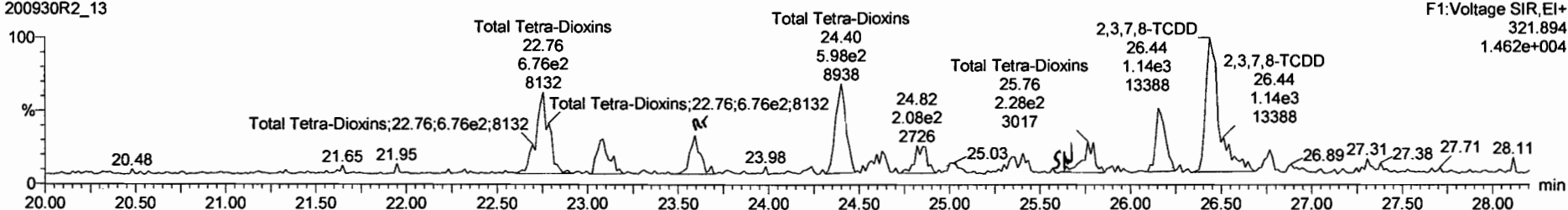
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### 2,3,7,8-TCDD

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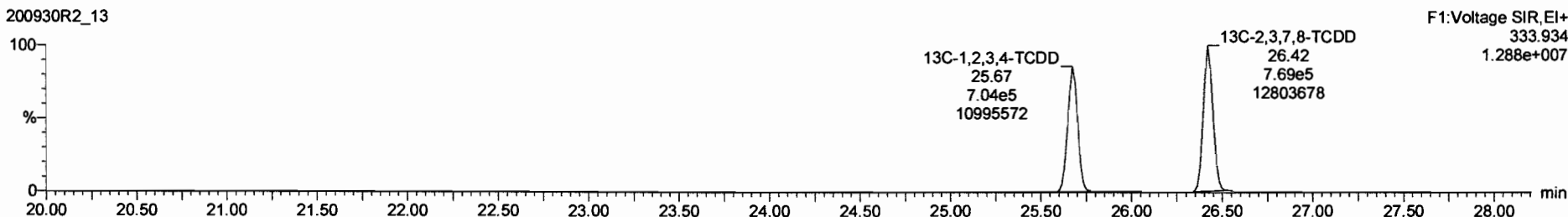


### 13C-2,3,7,8-TCDD

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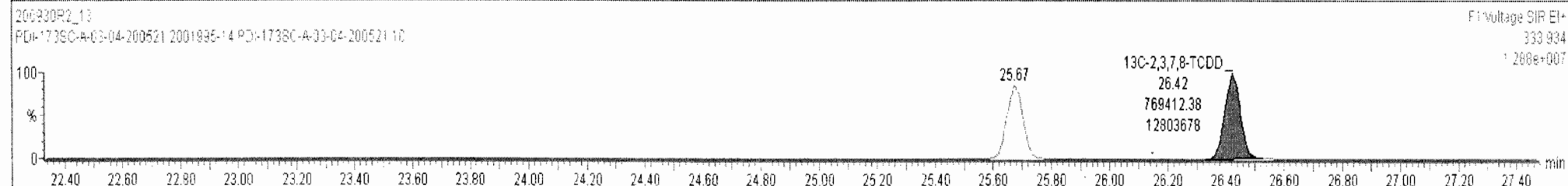
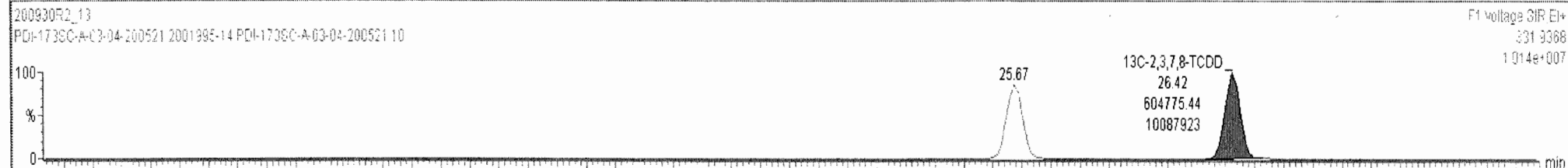
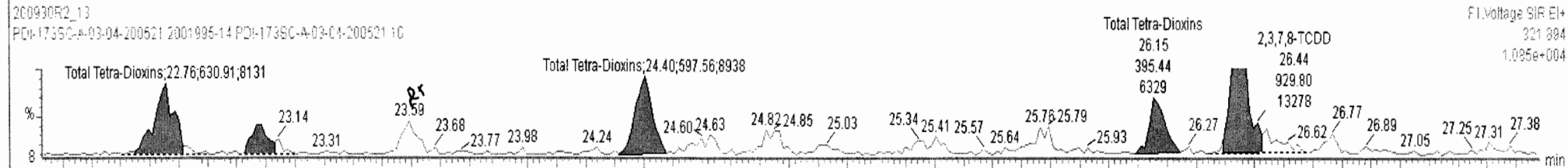
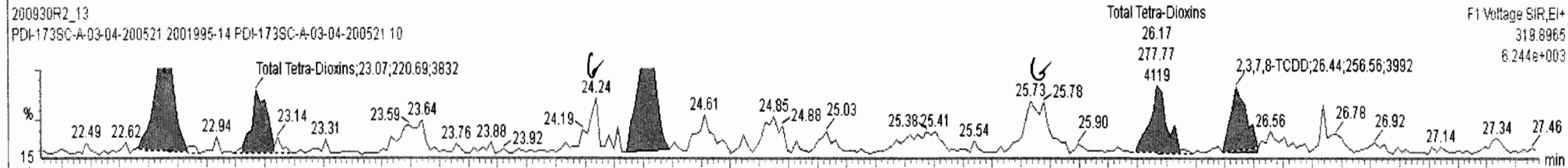
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200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.061			0.412		0.0271	0.552
40 Total Penta-Dioxins				0.9561	10.061			0.263		0.0487	0.896
41 Total Hexa-Dioxins				0.8879	10.061			5.02		0.0797	5.42

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.77	4.851e2	6.309e2	0.77	NO	0.15890	0.15890
2 Total Tetra-Dioxins	23.07	2.207e2	2.217e2	1.00	YES	0.055871	0.00000
3 Total Tetra-Dioxins	24.42	5.050e2	5.976e2	0.85	NO	0.15699	0.15699
4 Total Tetra-Dioxins	26.17	2.778e2	3.954e2	0.70	NO	0.095851	0.095851
5 2,3,7,8-TCDD	26.44	2.566e2	9.298e2	0.28	YES	0.083969	0.00000





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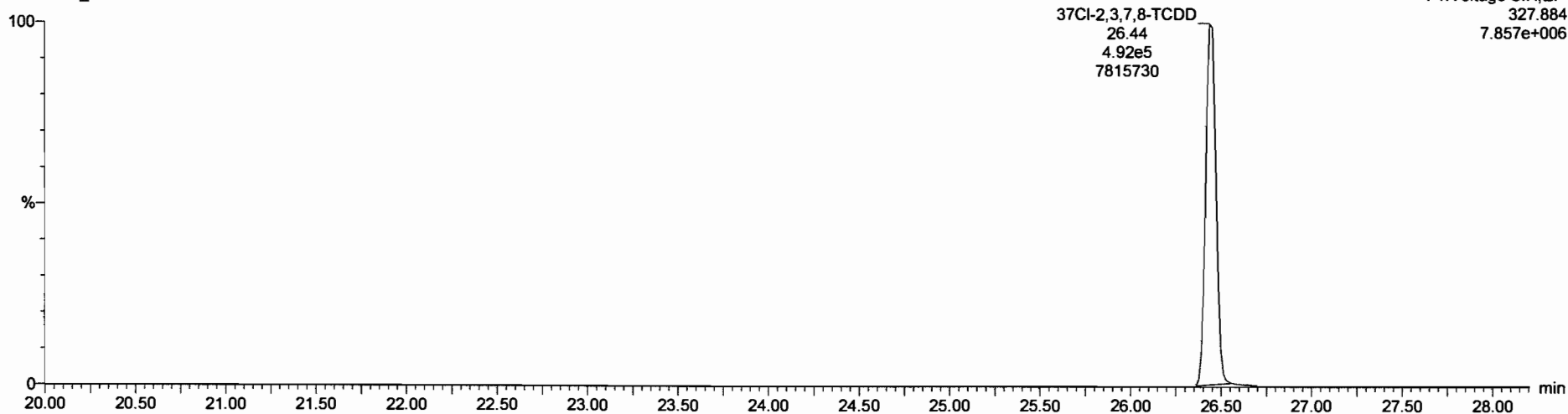
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Name: 200930R2\_13, Date: 01-Oct-2020, Time: 06:43:13, ID: 2001995-14 PDI-173SC-A-03-04-200521 10, Description: PDI-173SC-A-03-04-200521

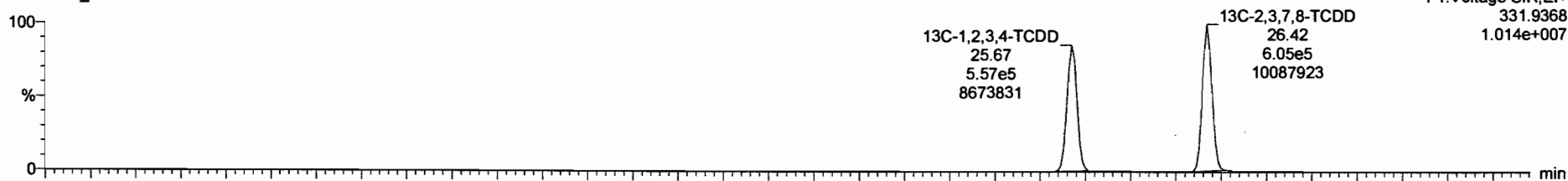
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200930R2\_13

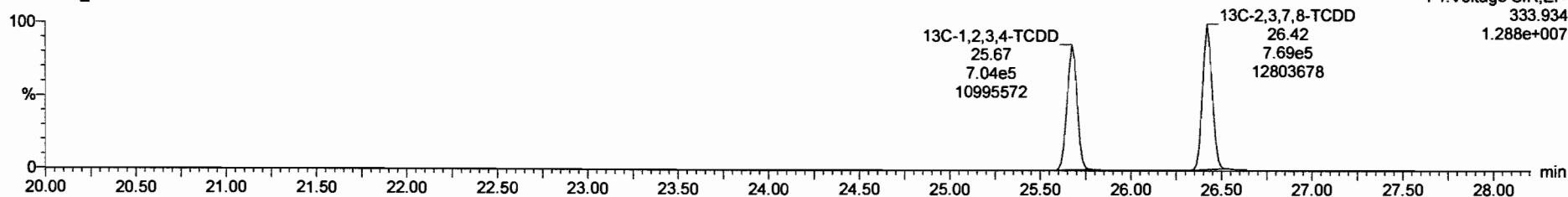


**13C-1,2,3,4-TCDD**

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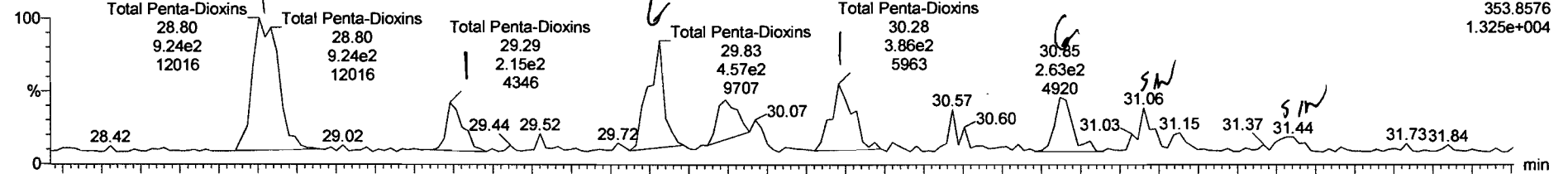
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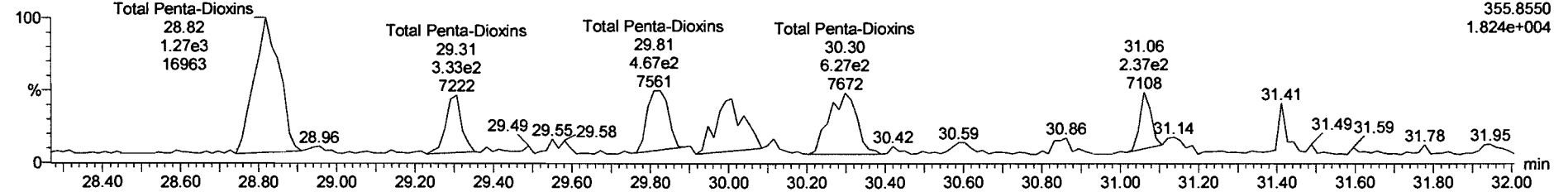
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1,2,3,7,8-PeCDD

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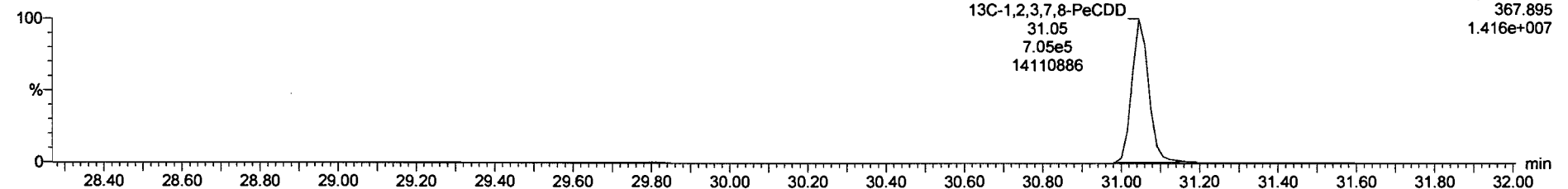


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200930R2\_13



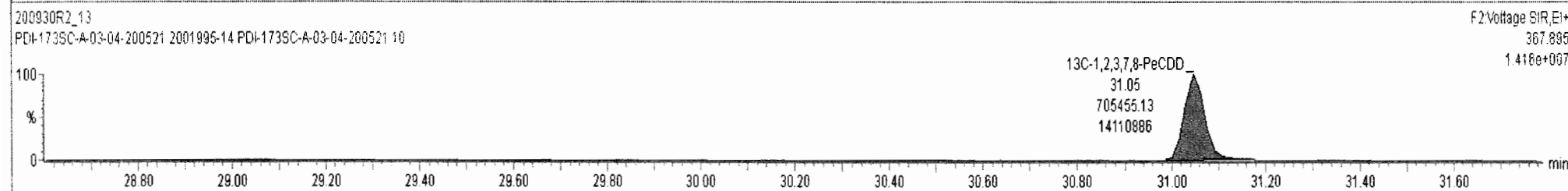
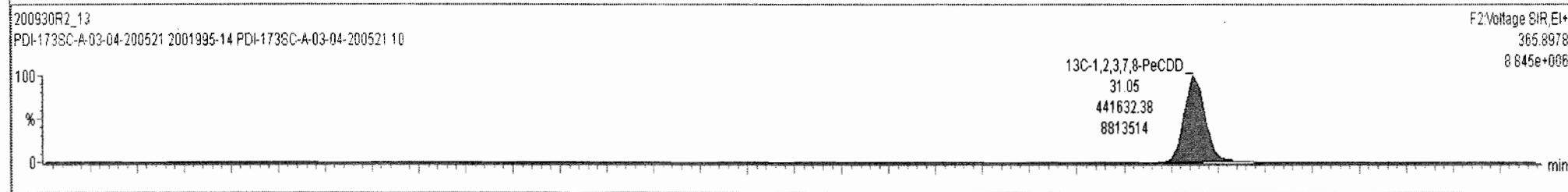
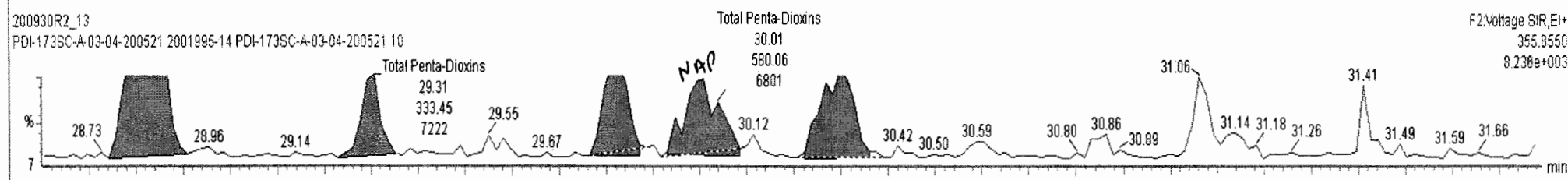
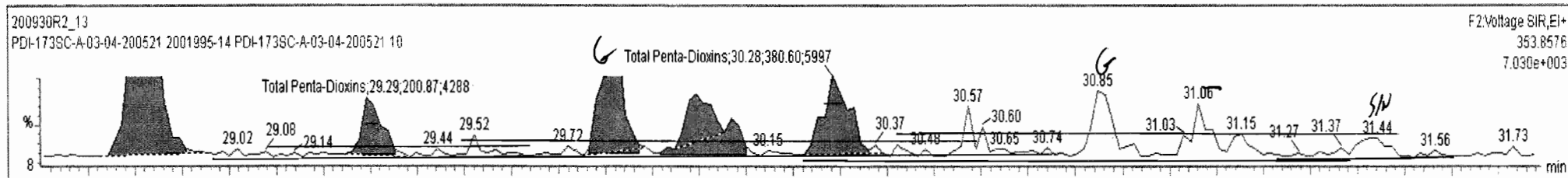
200930R2\_13



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wtAvd	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.061			0.412		0.0271	0.552
40 Total Penta-Dioxins				0.9561	10.061			0.674		0.0487	0.993
41 Total Hexa-Dioxins				0.8879	10.061			5.02		0.0797	5.42

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.80	9.152e2	1.271e3	0.72	NO	0.39624	0.39624
2 Total Penta-Dioxins	29.29	2.009e2	3.335e2	0.60	NO	0.096844	0.096844
3 Total Penta-Dioxins	29.83	4.647e2	5.011e2	0.93	YES	0.14805	0.00000
4 Total Penta-Dioxins	29.99	4.259e2	5.801e2	0.73	YES	0.17137	0.00000
5 Total Penta-Dioxins	30.28	3.806e2	6.156e2	0.62	NO	0.18057	0.18057



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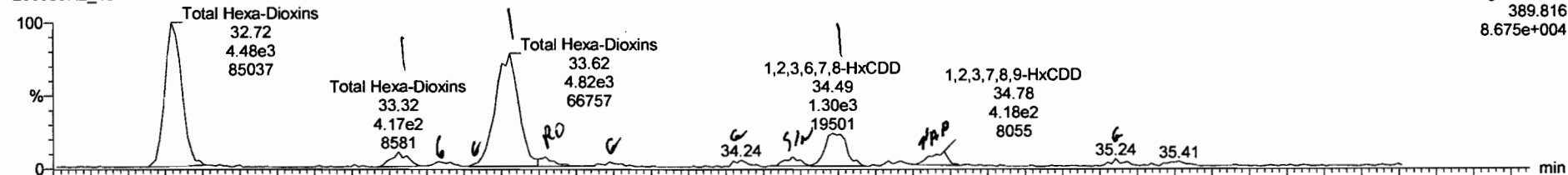
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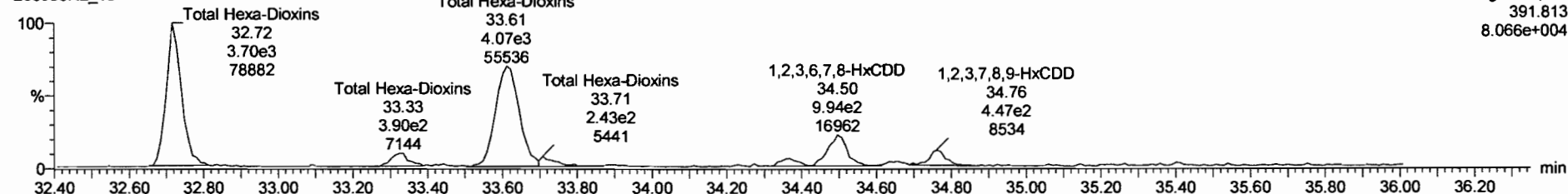
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**1,2,3,4,7,8-HxCDD**

200930R2\_13

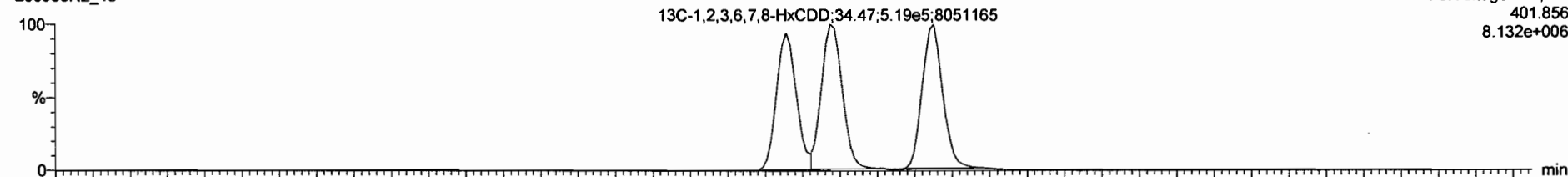


200930R2\_13

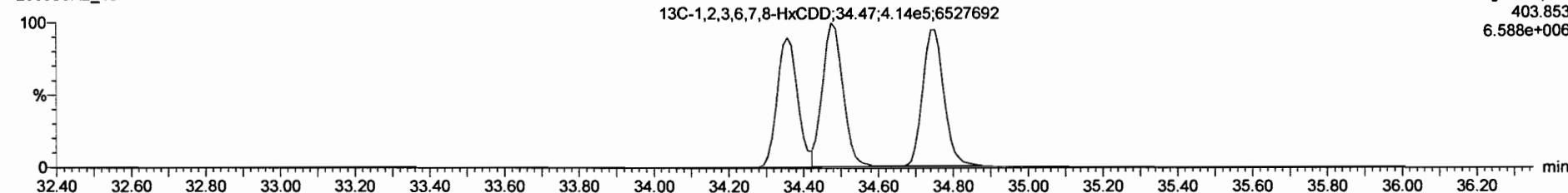


**13C-1,2,3,4,7,8-HxCDD**

200930R2\_13



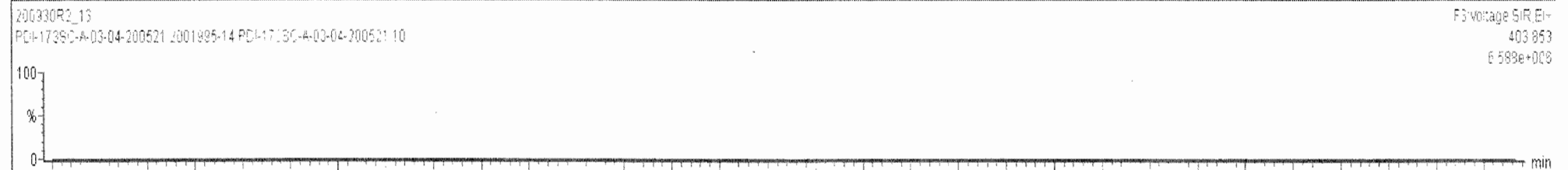
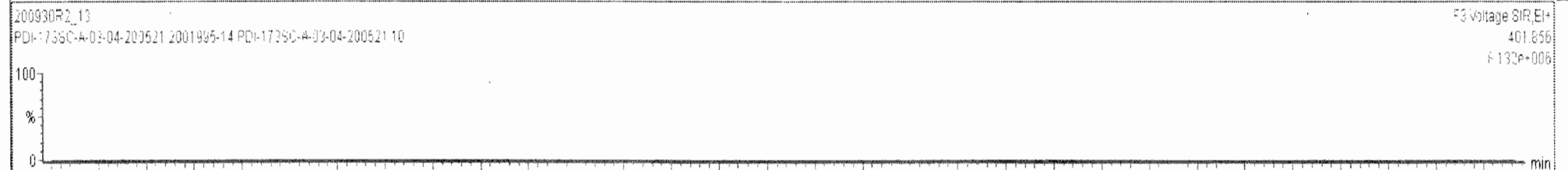
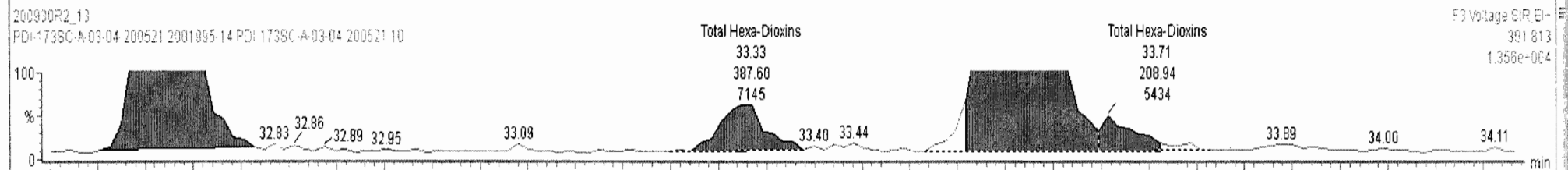
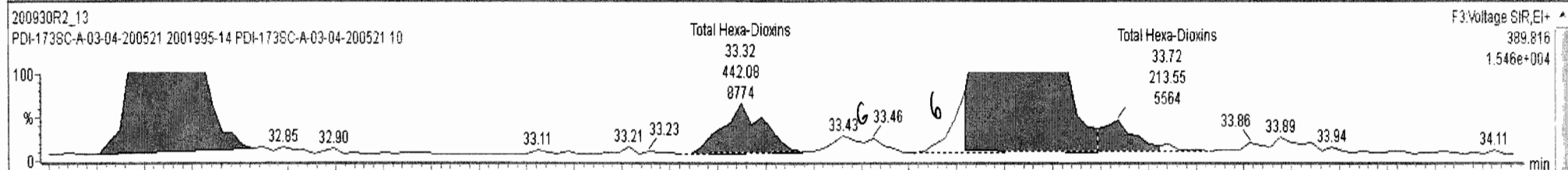
200930R2\_13



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.061			0.412		0.0271	0.552
40 Total Penta-Dioxins				0.9561	10.061			0.674		0.0487	0.674
41 Total Hexa-Dioxins				0.8879	10.061			4.96		0.0797	5.35

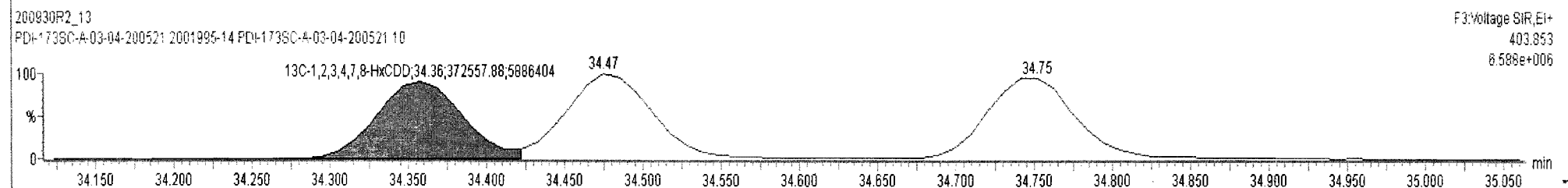
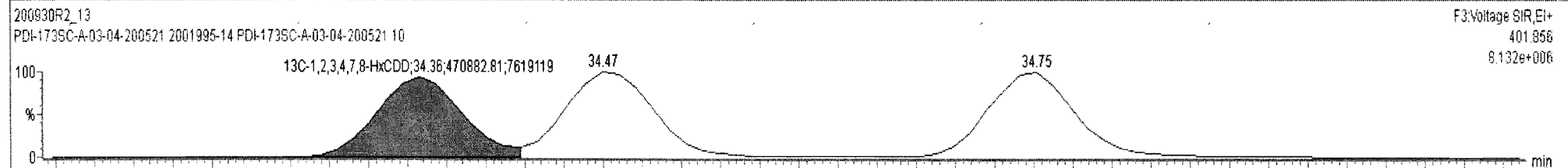
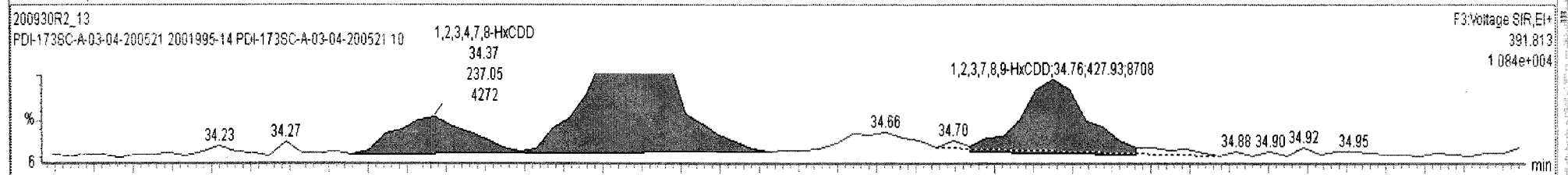
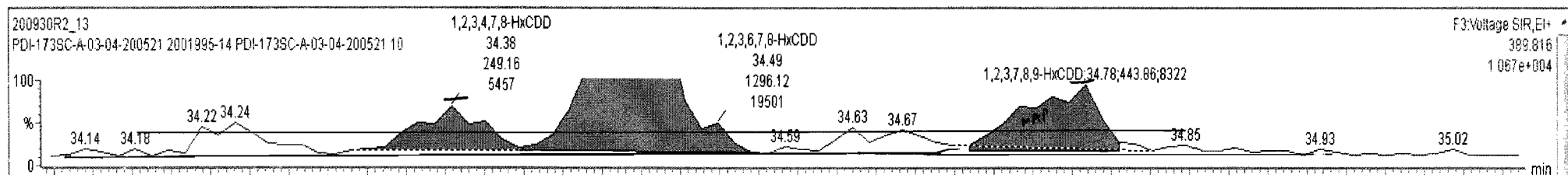
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.72	4.475e3	3.703e3	1.21	NO	2.0459	2.0459
2 Total Hexa-Dioxins	33.32	4.421e2	3.876e2	1.14	NO	0.20757	0.20757
3 Total Hexa-Dioxins	33.62	4.649e3	3.960e3	1.17	NO	2.1540	2.1540
4 Total Hexa-Dioxins	33.72	2.136e2	2.089e2	1.02	YES	0.096513	0.00000
5 1,2,3,4,7,8-HxCDD	34.38	2.446e2	2.370e2	1.03	YES	0.10396	0.00000



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.061			0.412		0.0271	0.552
40 Total Penta-Dioxins				0.9561	10.061			0.674		0.0487	0.674
41 Total Hexa-Dioxins				0.8879	10.061			4.96		0.0797	5.36

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.72	4.475e3	3.703e3	1.21	NO	2.0459	2.0459
2 Total Hexa-Dioxins	33.32	4.421e2	3.876e2	1.14	NO	0.20757	0.20757
3 Total Hexa-Dioxins	33.62	4.649e3	3.960e3	1.17	NO	2.1540	2.1540
4 Total Hexa-Dioxins	33.72	2.136e2	2.089e2	1.02	YES	0.096513	0.00000
5 1,2,3,4,7,8-HxCDD	34.38	2.492e2	2.370e2	1.05	YES	0.10590	0.00000



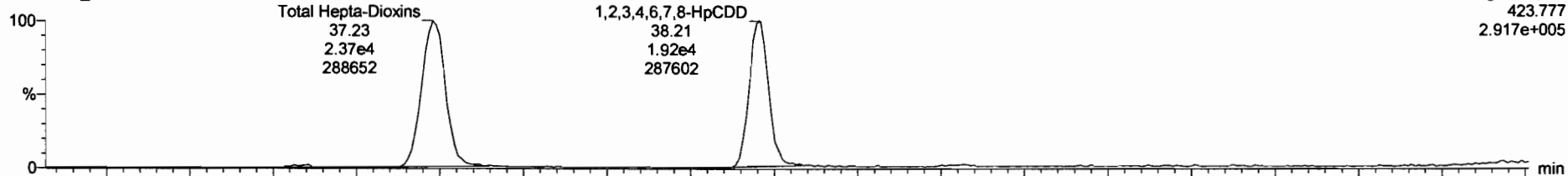
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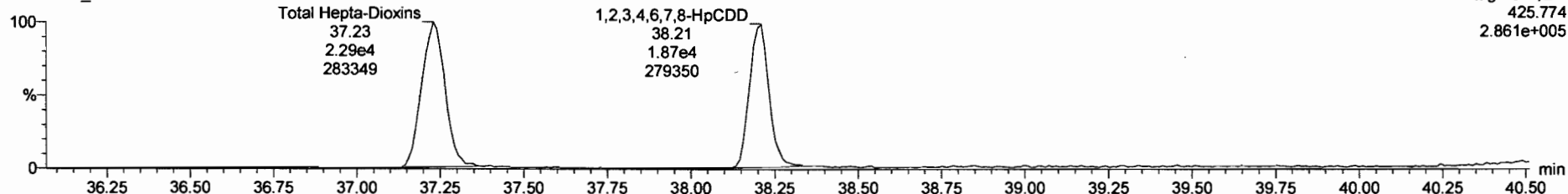
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**1,2,3,4,6,7,8-HpCDD**

200930R2\_13

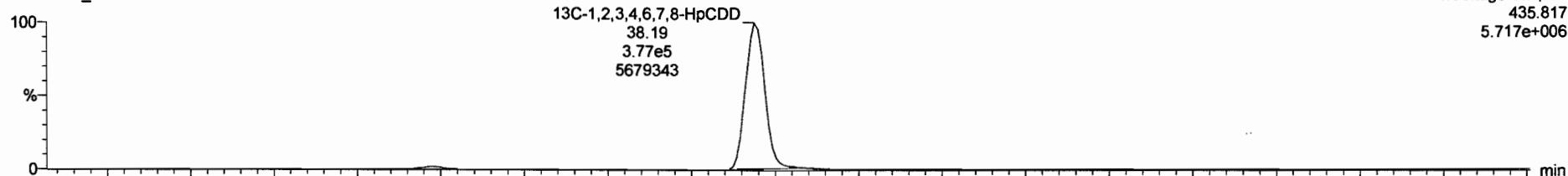


200930R2\_13

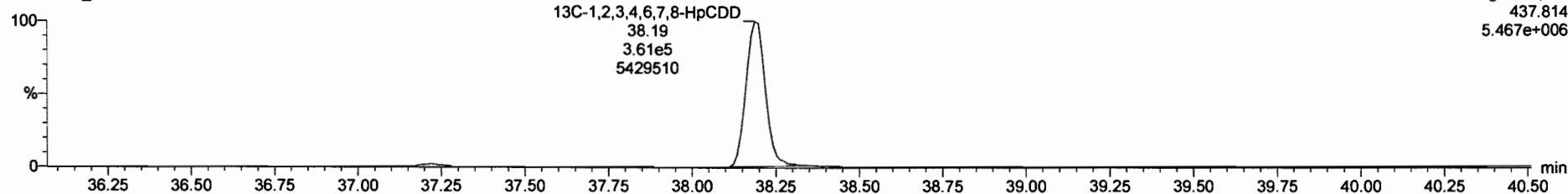


**13C-1,2,3,4,6,7,8-HpCDD**

200930R2\_13



200930R2\_13



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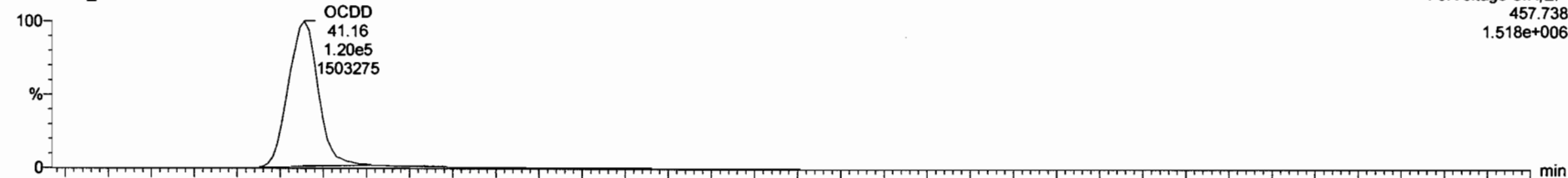
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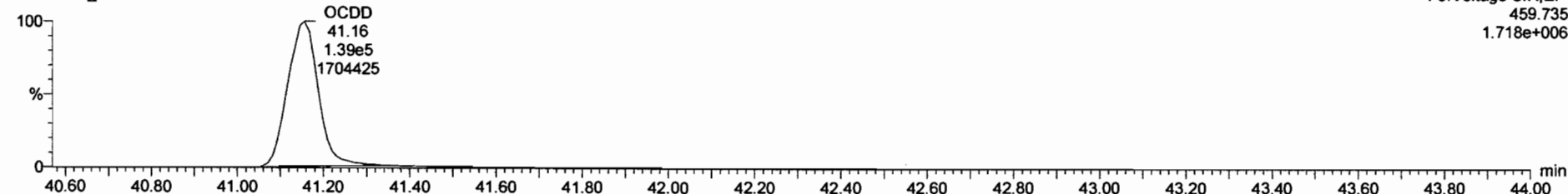
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**OCDD**

200930R2\_13



200930R2\_13

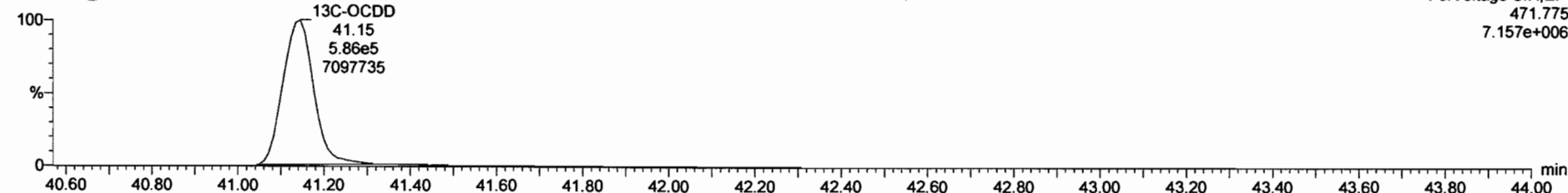


**13C-OCDD**

200930R2\_13



200930R2\_13



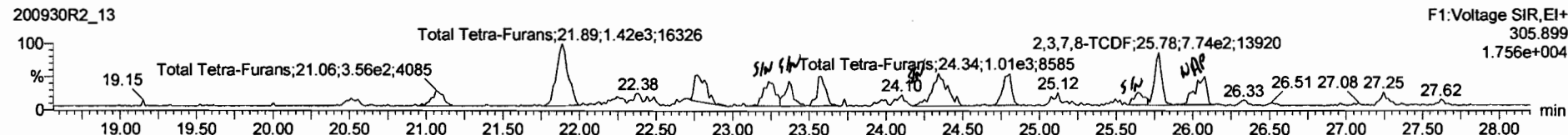
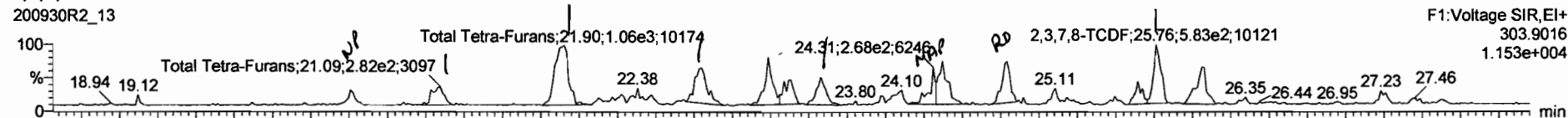


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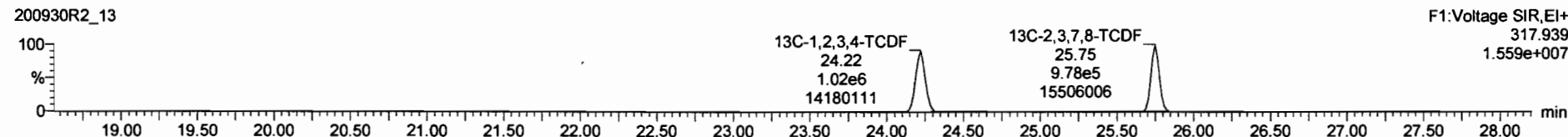
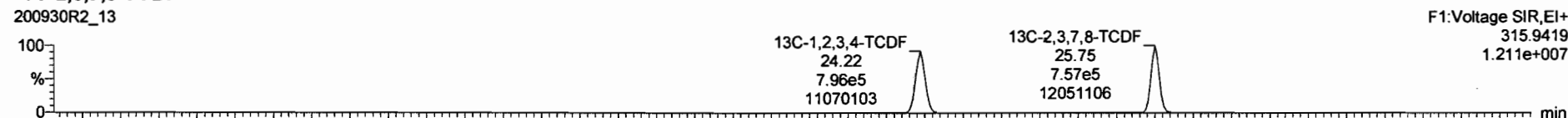
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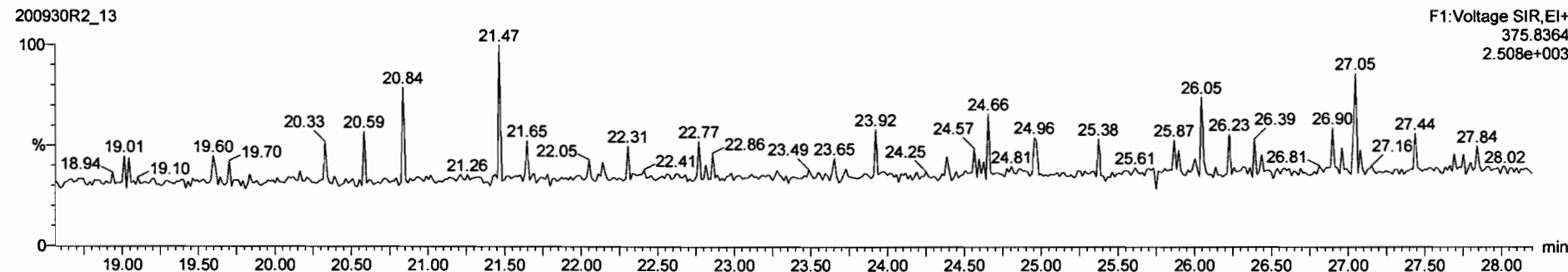
**2,3,7,8-TCDF**



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



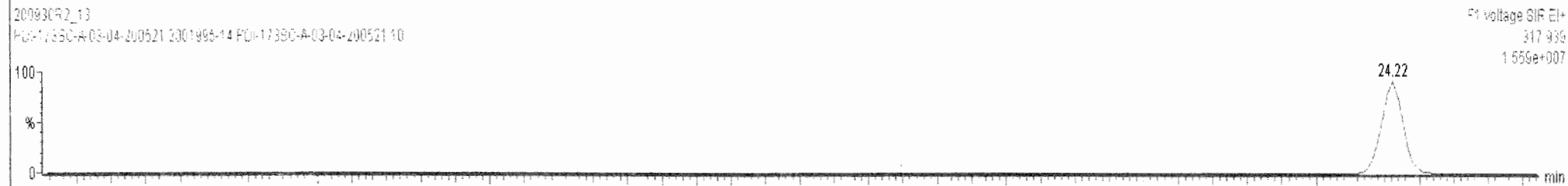
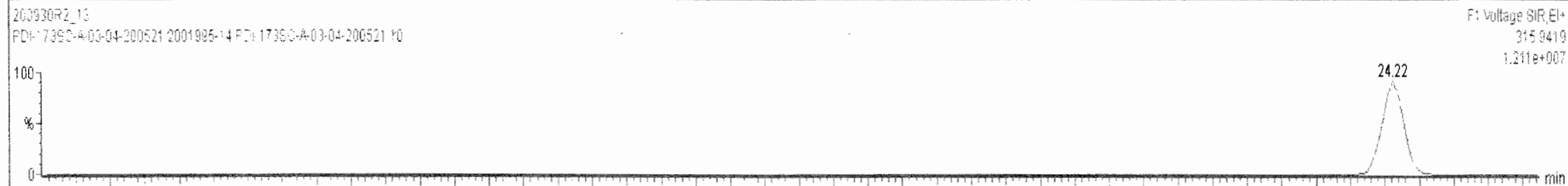
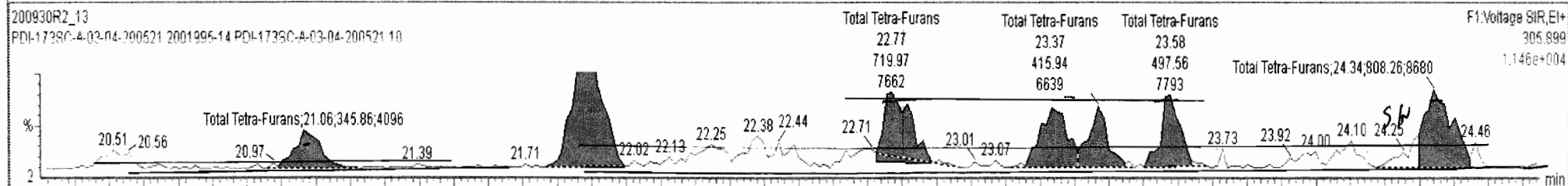
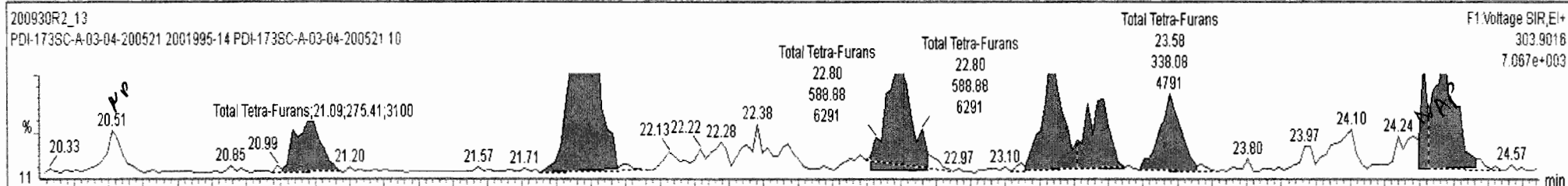
**DPE1**



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/avl	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.061			1.95		0.0391	1.95
44 1st Func. Penta-Furans				0.9386	10.061			1.33		0.0124	1.33
45 Total Penta-Furans				0.9386	10.061			1.00		0.0410	1.26

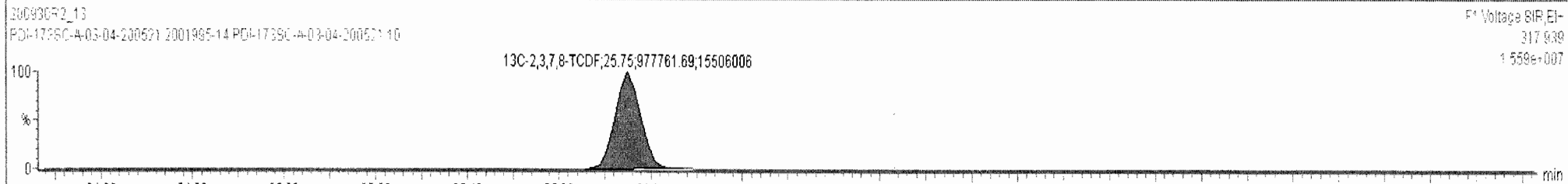
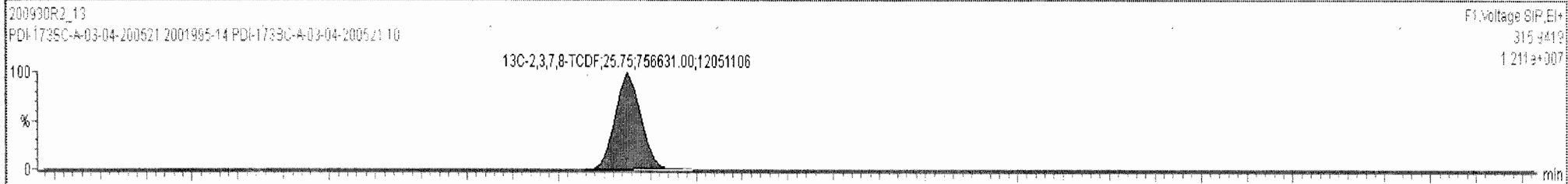
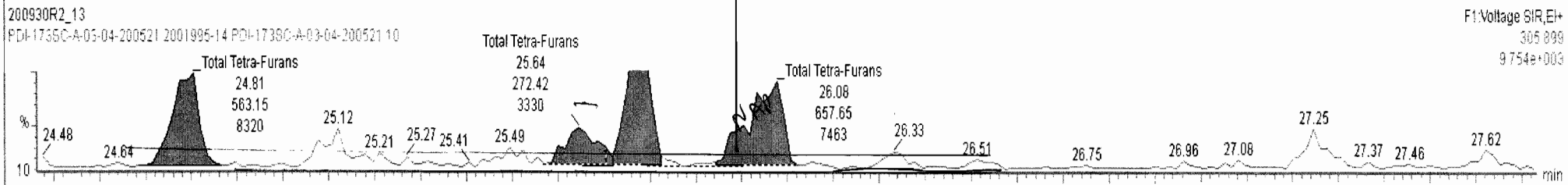
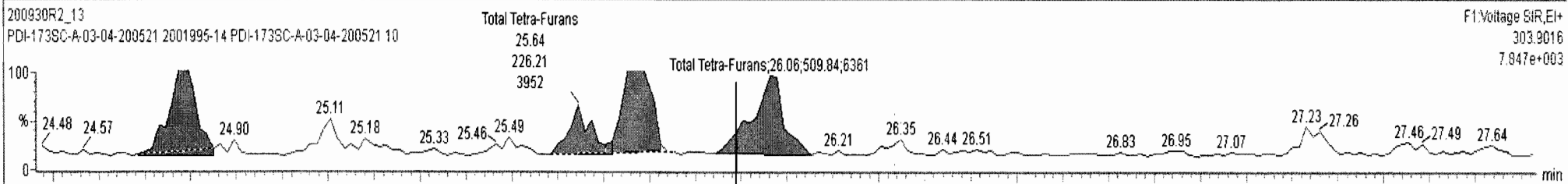
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.09	2.754e2	3.459e2	0.80	NO	0.096838	0.096838
2 Total Tetra-Furans	21.90	1.023e3	1.446e3	0.71	NO	0.38489	0.38489
3 Total Tetra-Furans	22.80	5.889e2	7.200e2	0.82	NO	0.20401	0.20401



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans			0.7353	10.061			1.26		0.0391	1.43
44	1st Func. Penta-Furans			0.9386	10.061			1.33		0.0124	1.33
45	Total Penta-Furans			0.9386	10.061			1.00		0.0410	1.26

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
6	Total Tetra-Furans	25.64	2.262e2	2.724e2	0.83	NO	0.077722
7	2,3,7,8-TCDF	25.76	5.593e2	7.323e2	0.76	NO	0.20131
8	Total Tetra-Furans	26.06	5.096e2	6.577e2	0.78	NO	0.18198



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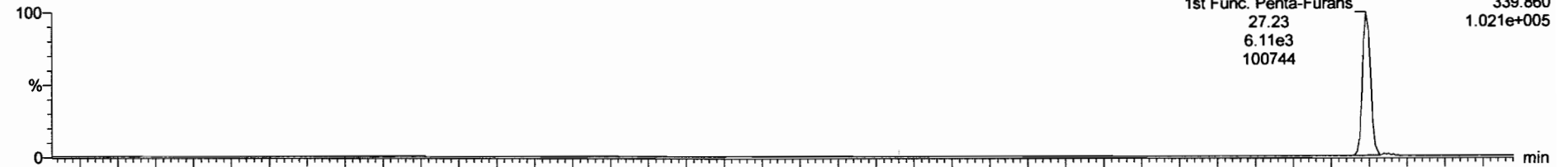
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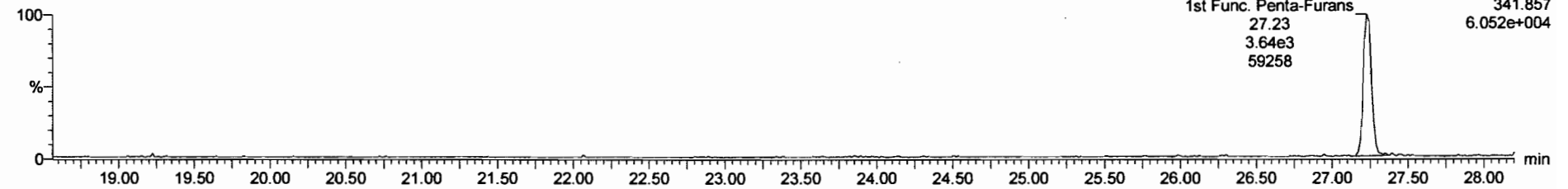
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1st Func. Penta-Furans

200930R2\_13

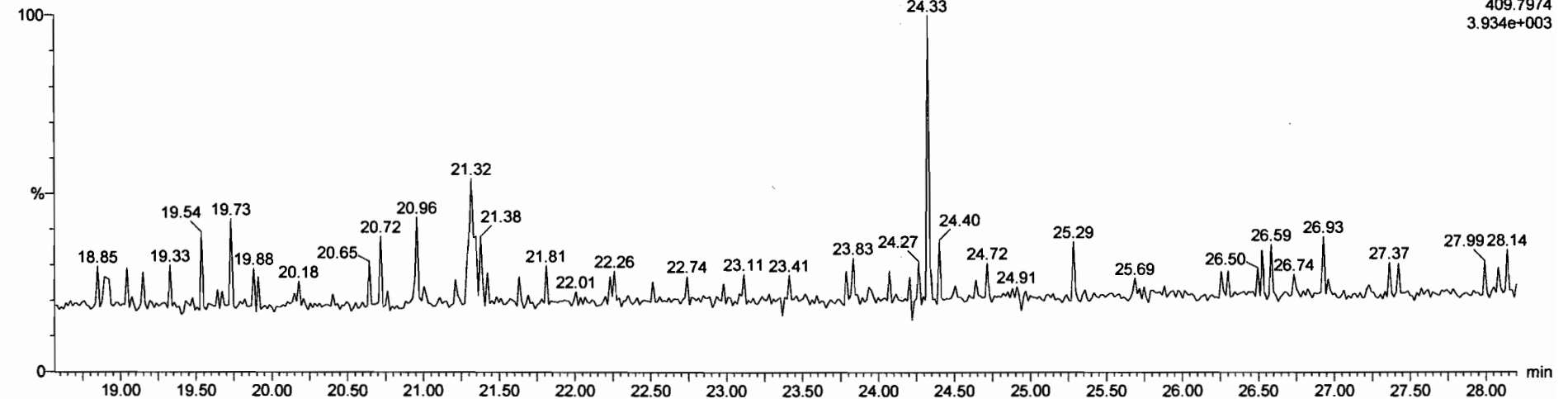


200930R2\_13



DPE6

200930R2\_13

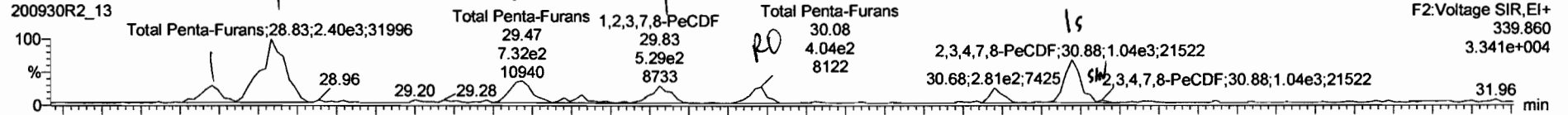


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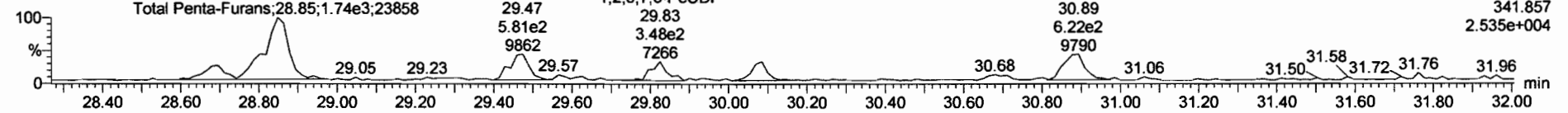
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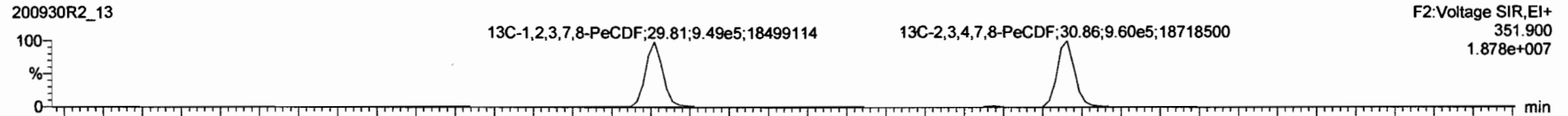
**1,2,3,7,8-PeCDF**



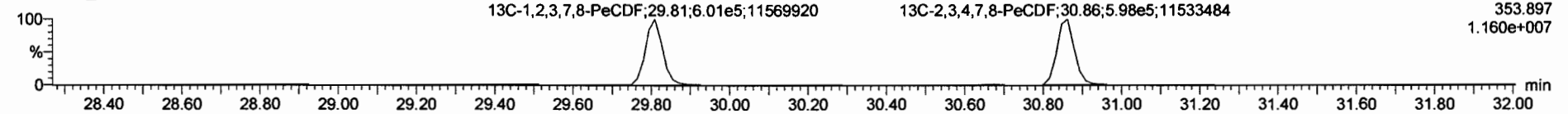
200930R2\_13



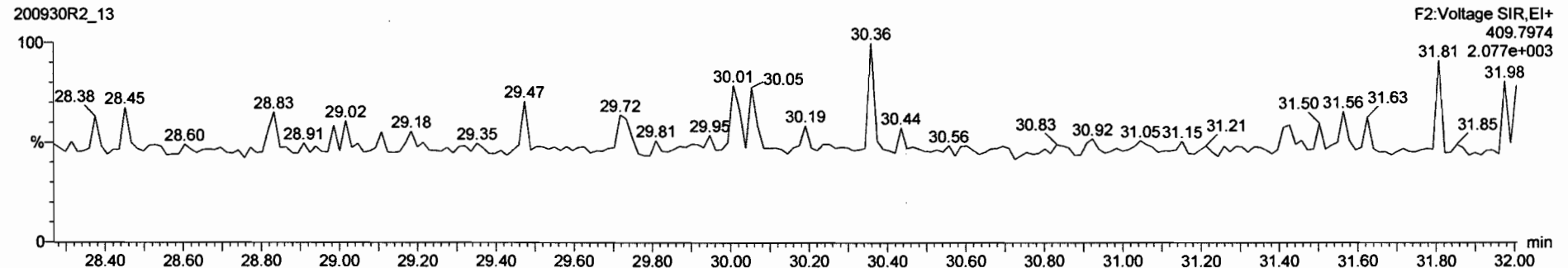
**13C-1,2,3,7,8-PeCDF**



200930R2\_13



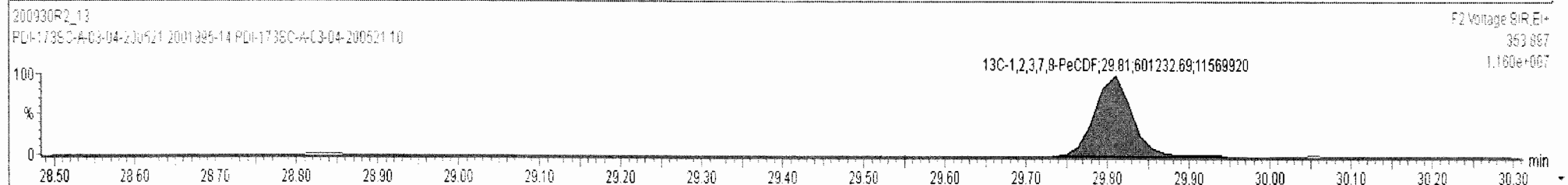
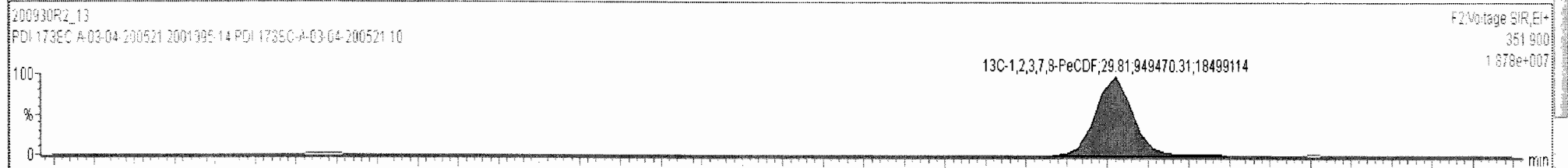
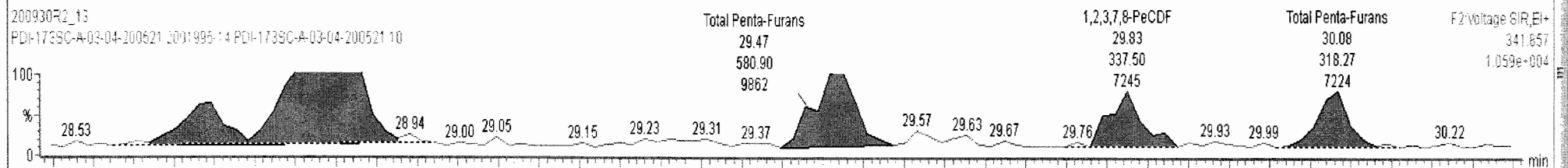
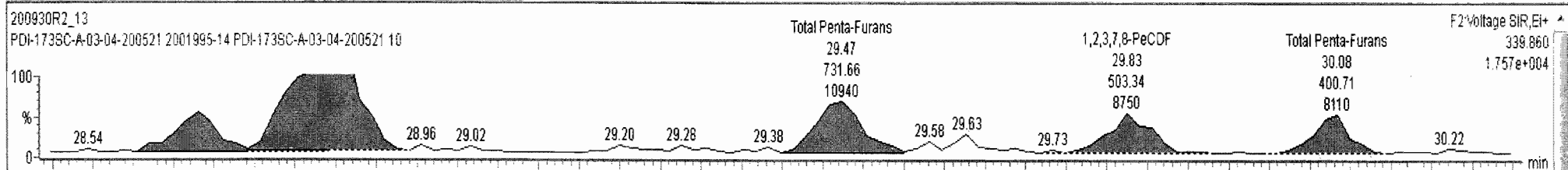
**DPE2**



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.061			1.02		0.0391	1.17
44 1st Func. Penta-Furans				0.9386	10.061			1.33		0.0124	1.33
45 Total Penta-Furans				0.9386	10.061			0.996		0.0410	1.24

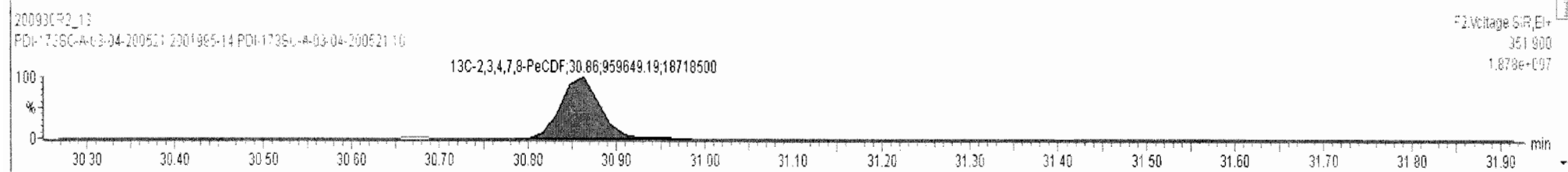
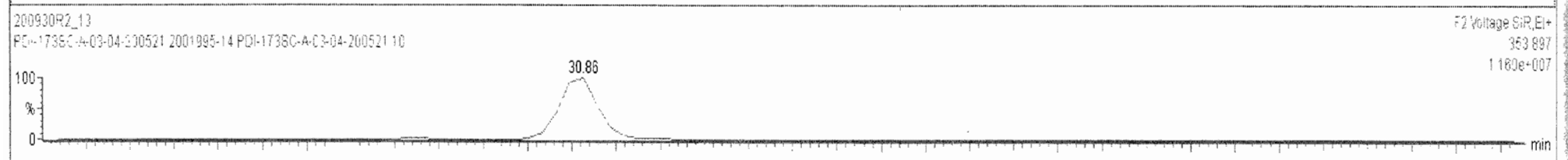
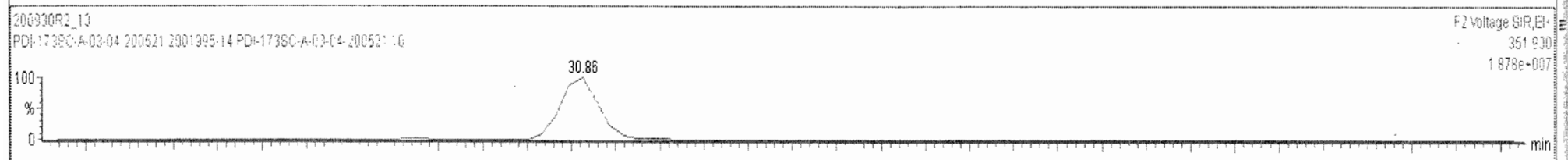
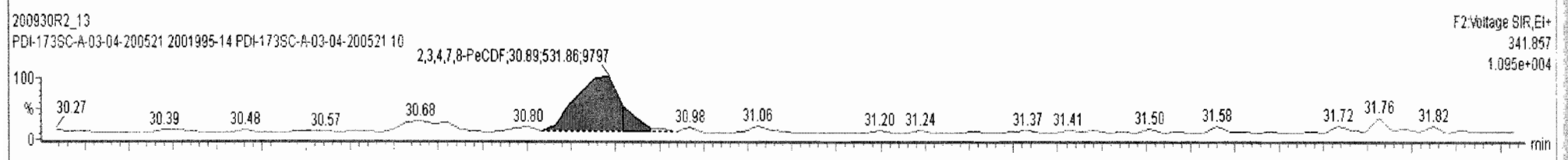
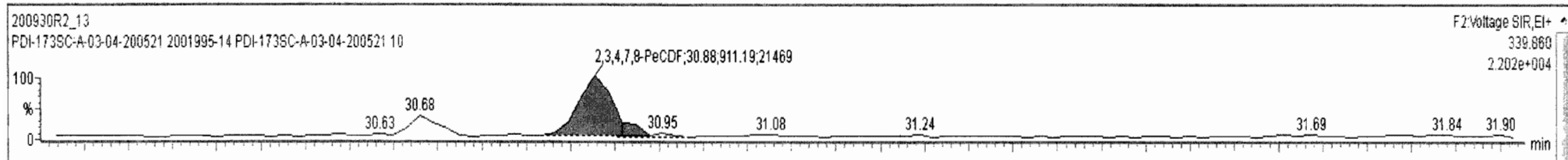
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.68	5.060e2	3.475e2	1.46	NO	0.11630	0.11630
2 Total Penta-Furans	28.83	2.397e3	1.716e3	1.40	NO	0.56041	0.56041
3 Total Penta-Furans	29.47	7.317e2	5.609e2	1.26	YES	0.16403	0.00000
4 1,2,3,7,8-PeCDF	29.83	5.033e2	3.375e2	1.49	NO	0.11484	0.11484
5 Total Penta-Furans	30.08	4.007e2	3.183e2	1.26	YES	0.069834	0.00000
6 2,3,4,7,8-PeCDF	30.88	9.975e2	6.047e2	1.65	NO	0.19480	0.19480



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9306	10.061			0.967		0.0410	1.24
46 Total Hexa-Furans				0.8699	10.061			3.72		0.0464	3.84
47 Total Hepta-Furans				0.8908	10.061			5.43		0.0701	5.43

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
6 2,3,4,7,8-PeCDF	30.88	9.112e2	5.319e2	1.71	NO	0.17545	0.17545
7 Total Penta-Furans	30.91	9.495e1	7.657e1	1.24	YES	0.021287	0.00000

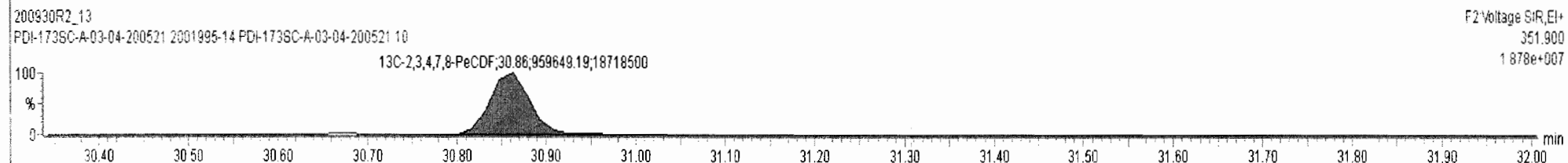
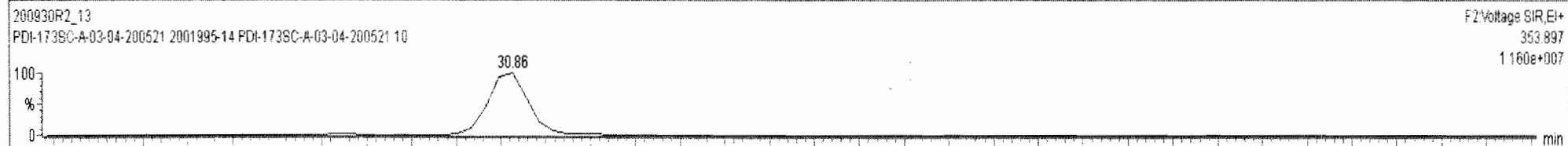
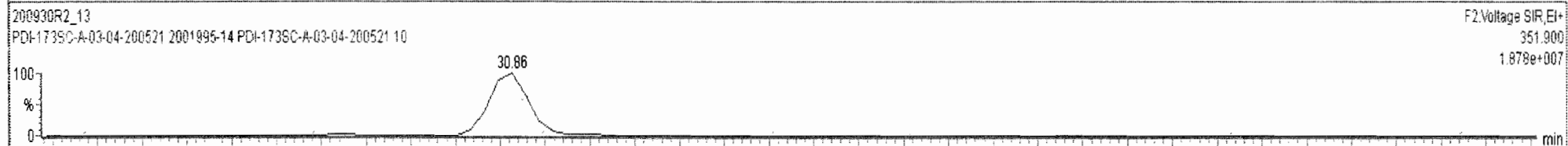
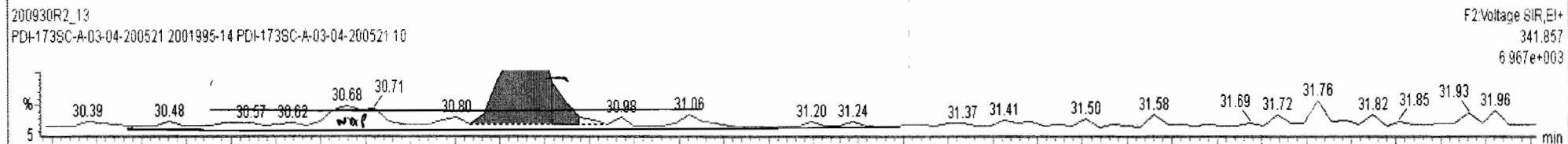
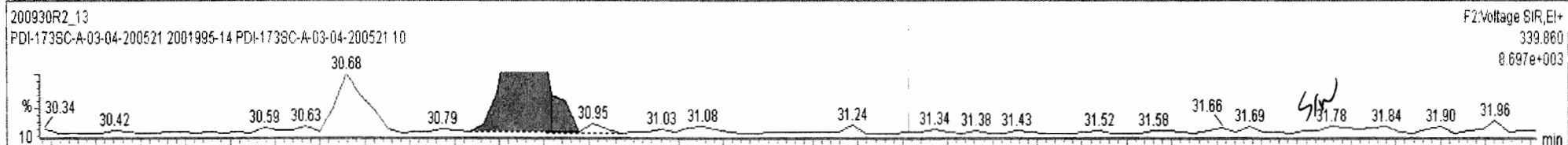




200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9366	10.061			0.967		0.0410	1.24
46 Total Hexa-Furans				0.6699	10.061			3.72		0.0464	3.84
47 Total Hepta-Furans				0.8908	10.061			5.43		0.0701	5.43

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
6 2,3,4,7,8-PeCDF	30.88	9.112e2	5.319e2	1.71	NO	0.17545	0.17545
7 Total Penta-Furans	30.91	9.495e1	7.657e1	1.24	YES	0.021287	0.00000



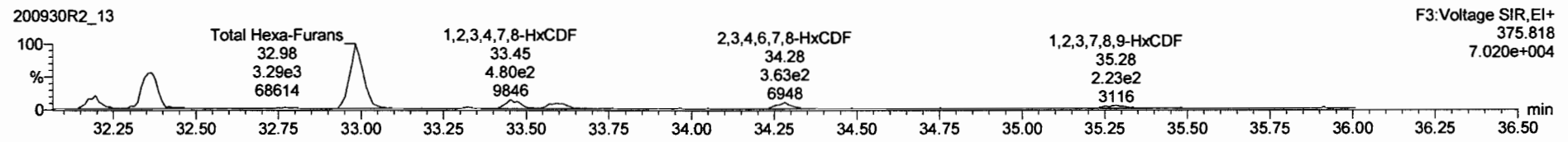
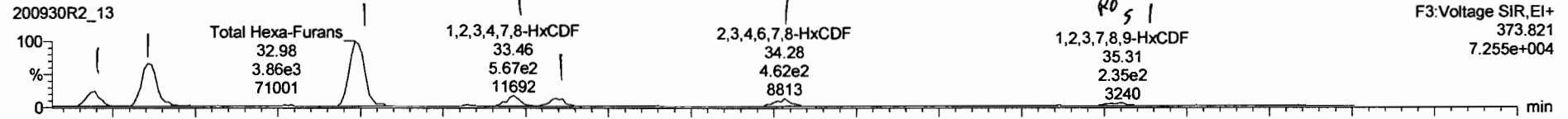


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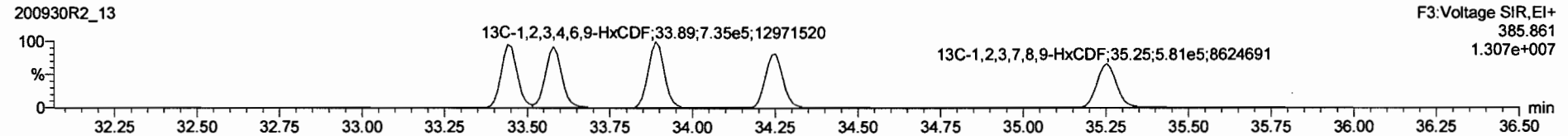
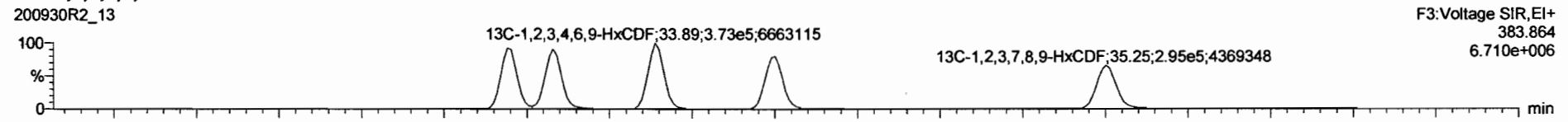
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Name: 200930R2\_13, Date: 01-Oct-2020, Time: 06:43:13, ID: 2001995-14 PDI-173SC-A-03-04-200521 10, Description: PDI-173SC-A-03-04-200521

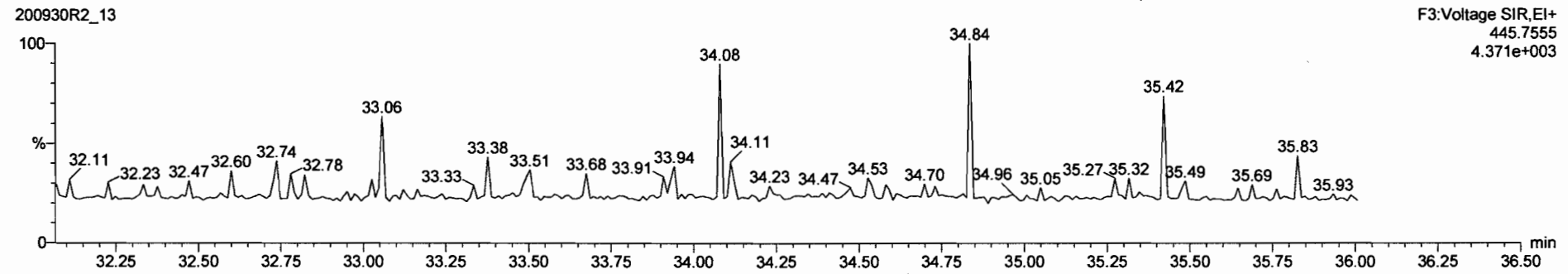
**1,2,3,4,7,8-HxCDF**



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



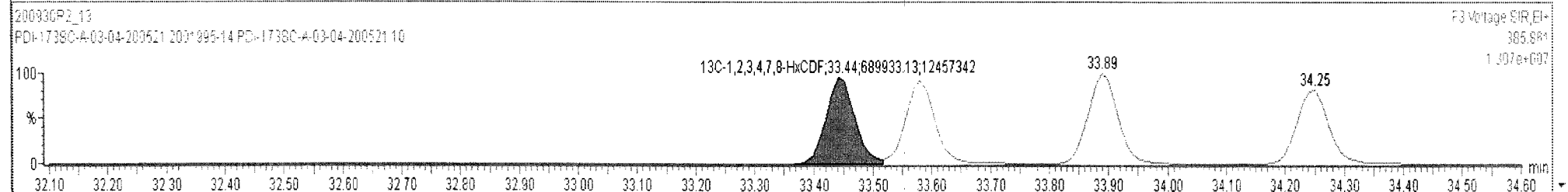
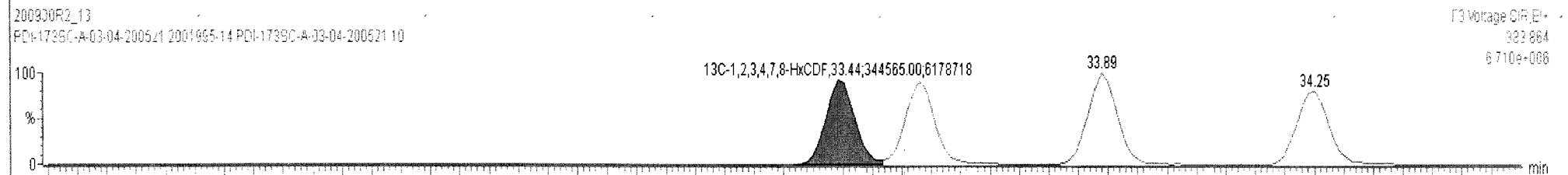
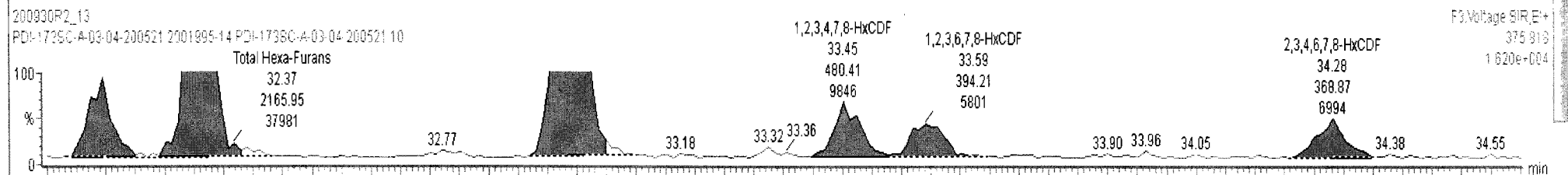
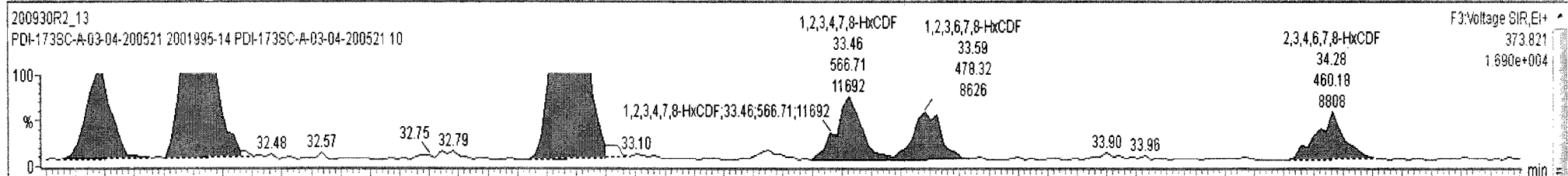
**DPE3**



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.061			0.967		0.0410	1.22
46 Total Hexa-Furans				0.8699	10.061			3.68		0.0464	3.79
47 Total Hepta-Furans				0.8908	10.061			5.43		0.0701	5.43

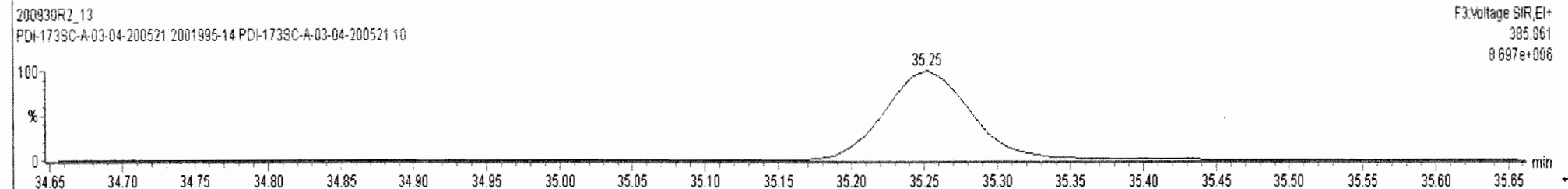
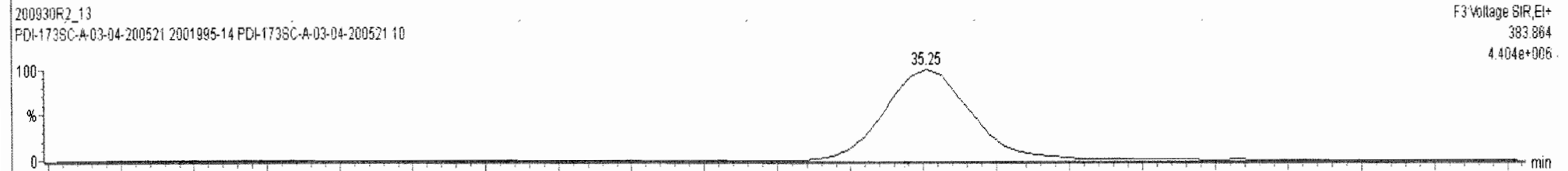
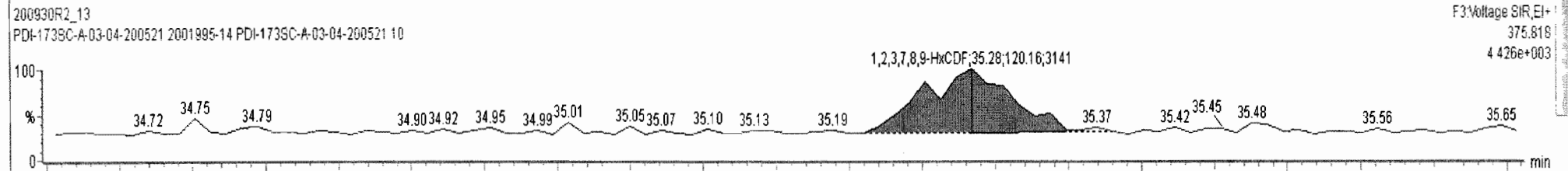
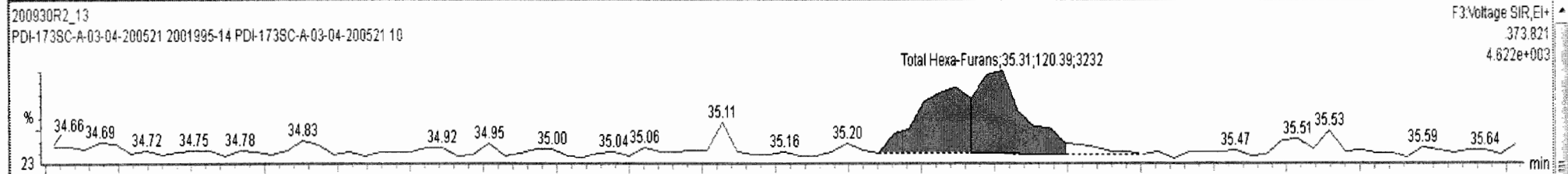
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	7.998e2	6.092e2	1.31	NO	0.32727	0.32727
2 Total Hexa-Furans	32.36	2.555e3	2.166e3	1.18	NO	1.0967	1.0967
3 Total Hexa-Furans	32.98	3.801e3	3.244e3	1.17	NO	1.6362	1.6362
4 1,2,3,4,7,8-HxCDF	33.46	5.667e2	4.804e2	1.18	NO	0.23898	0.23898



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.061			0.967		0.0410	1.22
46 Total Hexa-Furans				0.8699	10.061			3.73		0.0464	3.78
47 Total Hepta-Furans				0.8908	10.061			5.43		0.0701	5.43

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
5 1,2,3,6,7,8-HxCDF	33.59	4.783e2	3.942e2	1.21	NO	0.18928	0.18928
6 2,3,4,6,7,8-HxCDF	34.28	4.602e2	3.689e2	1.25	NO	0.18955	0.18955
7 1,2,3,7,8,9-HxCDF	35.27	1.024e2	1.202e2	0.85	YES	0.049088	0.00000
8 Total Hexa-Furans	35.31	1.204e2	9.989e1	1.21	NO	0.051165	0.051165



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Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

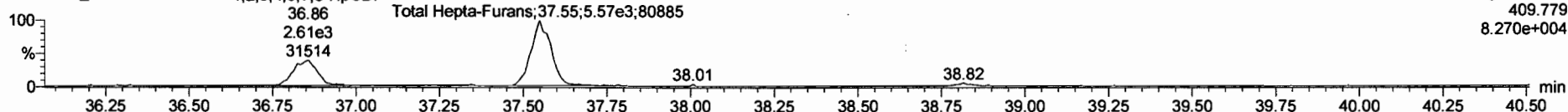
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**1,2,3,4,6,7,8-HpCDF**

200930R2\_13

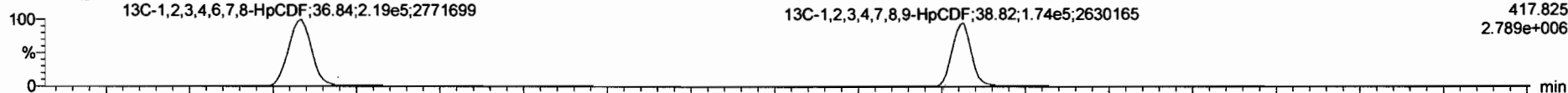


200930R2\_13

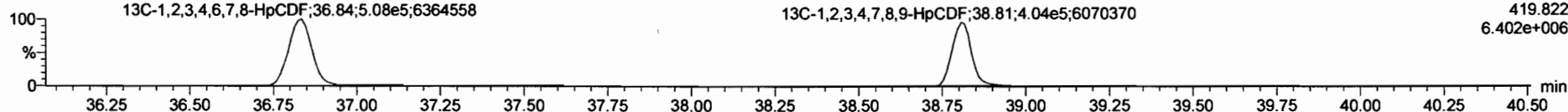


**13C-1,2,3,4,6,7,8-HpCDF**

200930R2\_13

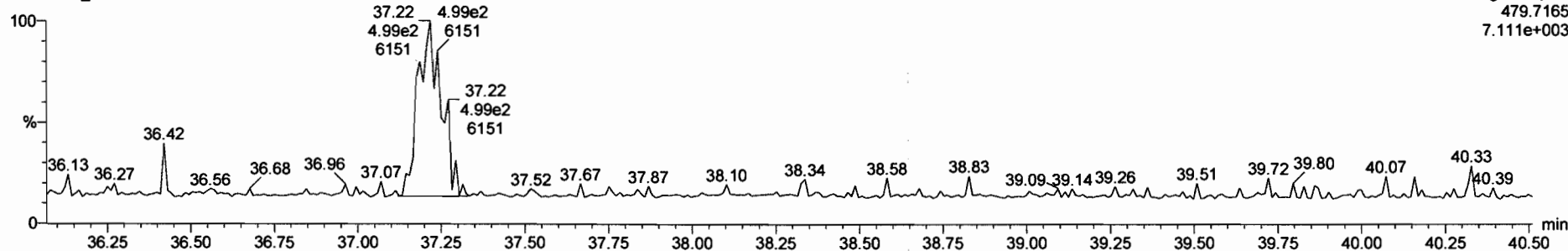


200930R2\_13



**DPE4**

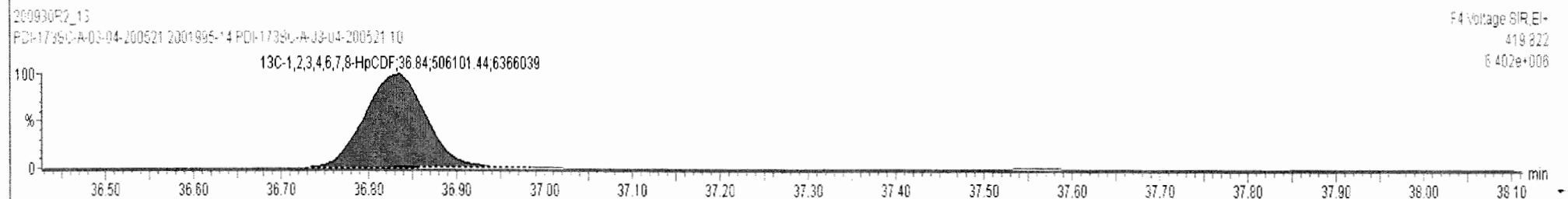
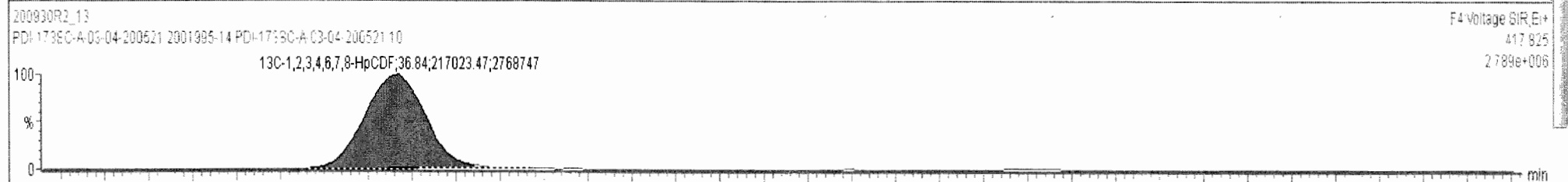
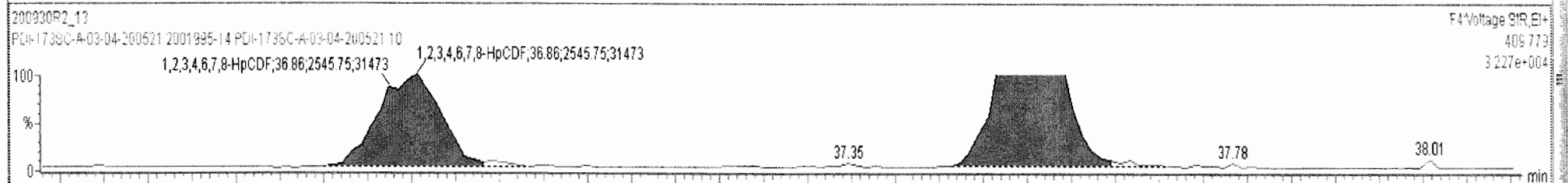
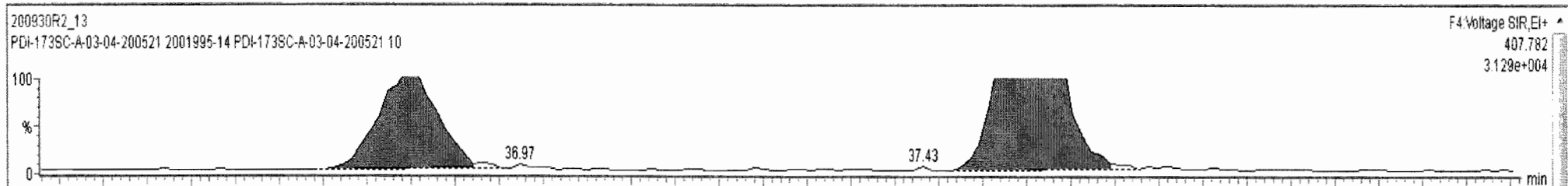
200930R2\_13



200930R2\_13 - 2001995-14 PDI-173SC-A-03-04-200521 10 - PDI-173SC-A-03-04-200521

Name	Resp	RA	n/y	RF	wAol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.061			0.967	0.0410	1.22	
46 Total Hexa-Furans				0.8699	10.061			3.73	0.0464	3.78	
47 Total Hepta-Furans				0.8908	10.061			5.37	0.0700	5.37	

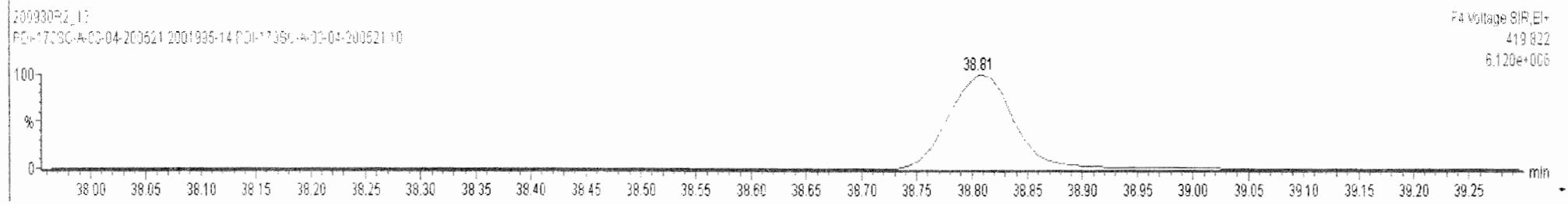
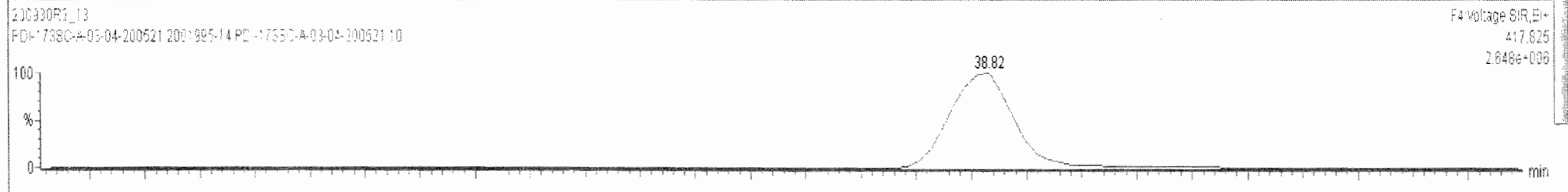
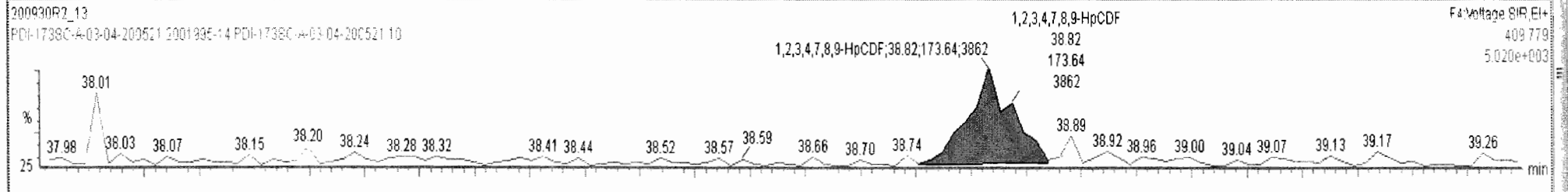
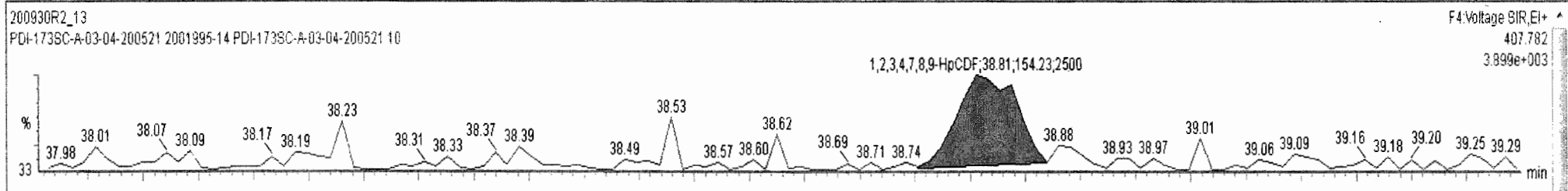
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.85	2.460e3	2.546e3	0.97	NO	1.5447	1.5447
2 Total Hepta-Furans	37.56	5.643e3	5.521e3	1.02	NO	3.8298	3.8298



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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.061			0.967		0.0410	1.22
46 Total Hexa-Furans				0.8699	10.061			3.73		0.0464	3.78
47 Total Hepta-Furans				0.8926	10.061			5.49		0.0700	5.48

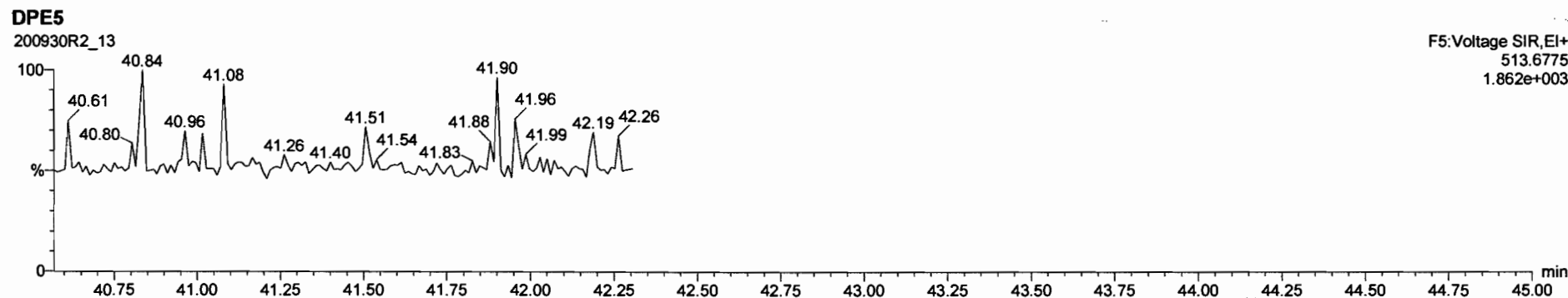
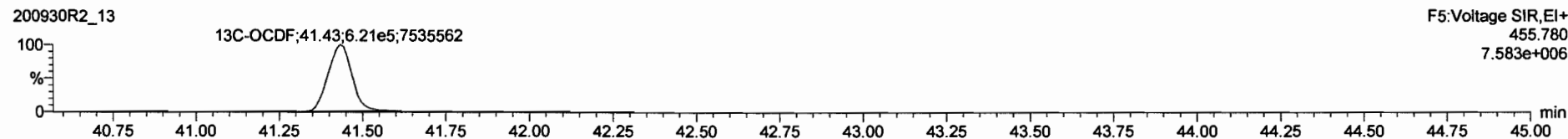
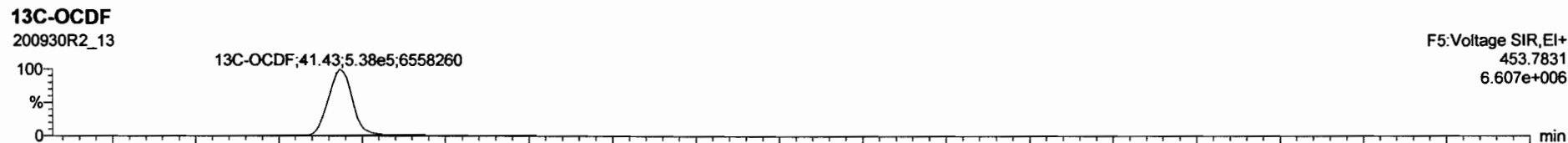
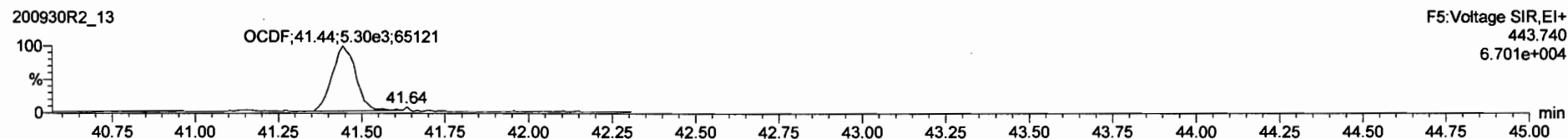
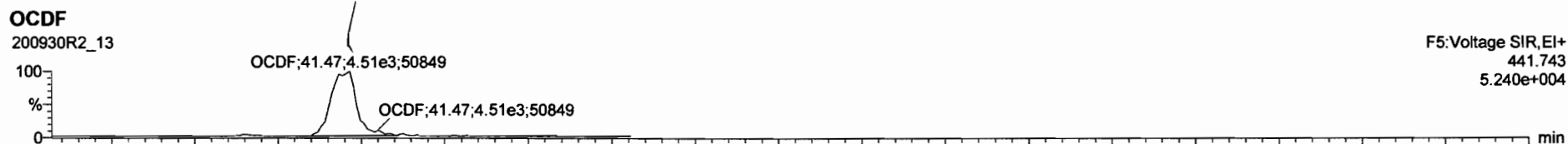
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.85	2.460e3	2.546e3	0.97	NO	1.5447	1.5447
2 Total Hepta-Furans	37.56	5.643e3	5.521e3	1.02	NO	3.8298	3.8298
3 1,2,3,4,7,8,9-HpCDF	38.81	1.542e2	1.736e2	0.89	NO	0.11276	0.11276



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Last Altered: Thursday, October 01, 2020 08:14:45 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

Name: 200930R2\_13, Date: 01-Oct-2020, Time: 06:43:13, ID: 2001995-14 PDI-173SC-A-03-04-200521 10, Description: PDI-173SC-A-03-04-200521

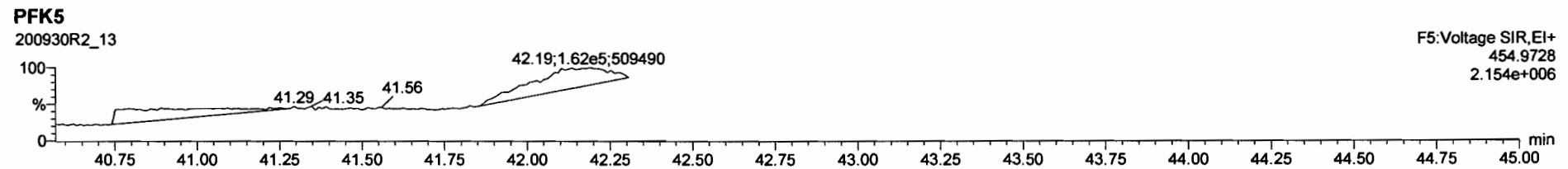
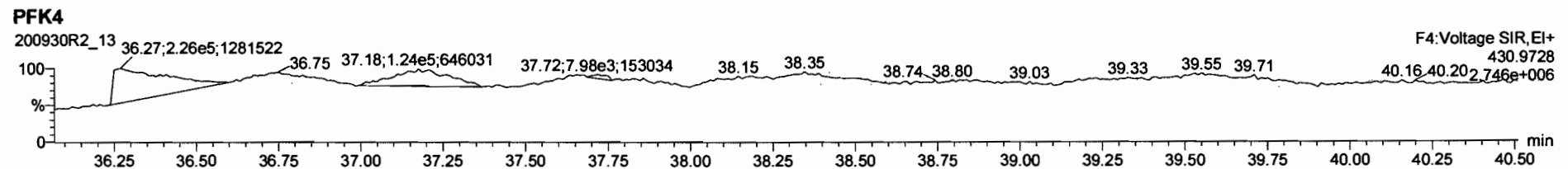
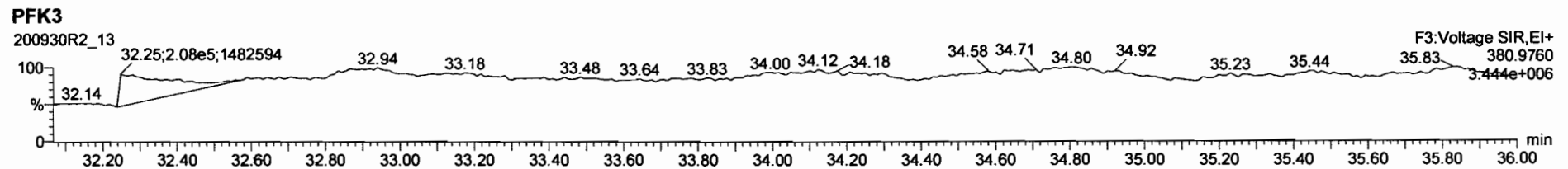
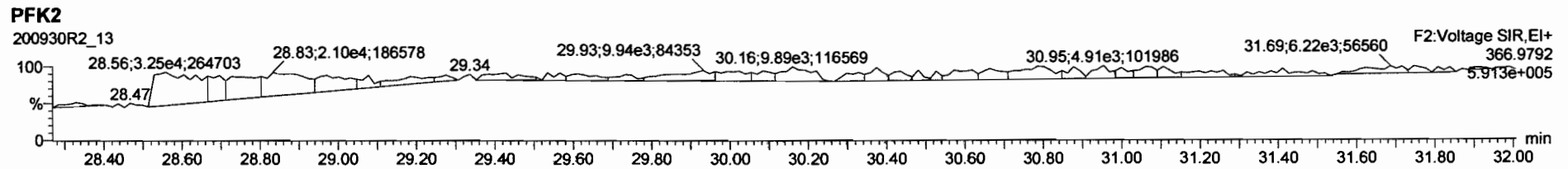
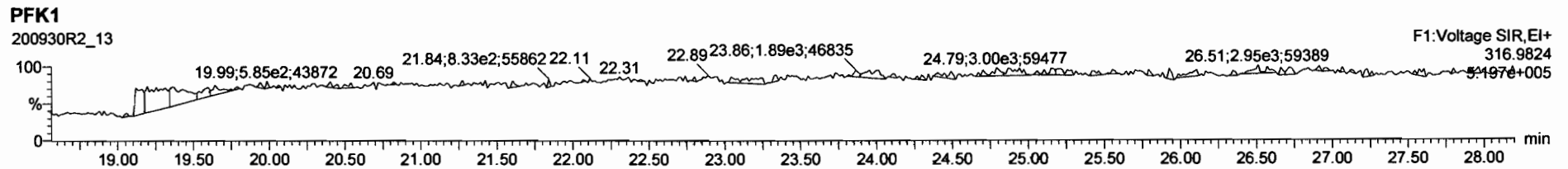


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Dataset: U:\VG12.PRO\Results\200930R2\200930R2-14.qld

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*dy 10-22-2020*

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*Mike  
10/22/20*

Name: 200930R2\_14, Date: 01-Oct-2020, Time: 07:26:57, ID: 2001995-15 PDI-174SC-A-01-02-200521 10, Description: PDI-174SC-A-01-02-200521

#	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	1.02	10.061	26.448		1.001				0.0443	
2	2 1,2,3,7,8-PeCDD			NO	0.956	10.061	31.070		1.001				0.0797	
3	3 1,2,3,4,7,8-HxCDD	5.94e2	1.25	NO	1.00	10.061	34.358	34.37	1.000	1.001	0.17153		0.0997	0.172
4	4 1,2,3,6,7,8-HxCDD	3.61e3	1.22	NO	0.888	10.061	34.476	34.50	1.000	1.001	1.0234		0.104	1.02
5	5 1,2,3,7,8,9-HxCDD	1.81e3	1.23	NO	0.909	10.061	34.753	34.76	1.000	1.001	0.47109		0.0995	0.471
6	6 1,2,3,4,6,7,8-HpCDD	7.95e4	1.04	NO	0.832	10.061	38.201	38.20	1.000	1.000	28.089		0.290	28.1
7	7 OCDD	4.68e5	0.88	NO	0.862	10.061	41.115	41.14	1.000	1.001	222.10		0.702	222
8	8 2,3,7,8-TCDF	1.51e3	0.62	YES	0.735	10.061	25.756	25.76	1.000	1.001	0.47845		0.0572	0.421
9	9 1,2,3,7,8-PeCDF	2.81e3	1.61	NO	0.939	10.061	29.818	29.83	1.001	1.001	0.55548		0.0448	0.555
10	10 2,3,4,7,8-PeCDF	1.80e3	1.44	NO	1.05	10.061	30.880	30.86	1.001	1.001	0.33808		0.0404	0.338
11	11 1,2,3,4,7,8-HxCDF	4.39e3	1.18	NO	0.842	10.061	33.443	33.45	1.000	1.000	1.2407		0.0949	1.24
12	12 1,2,3,6,7,8-HxCDF	1.35e3	1.15	NO	0.894	10.061	33.592	33.60	1.000	1.001	0.34699		0.0919	0.347
13	13 2,3,4,6,7,8-HxCDF			NO	0.870	10.061	34.263		1.001				0.0955	
14	14 1,2,3,7,8,9-HxCDF			NO	0.855	10.061	35.264		1.001				0.128	
15	15 1,2,3,4,6,7,8-HpCDF	7.39e3	1.03	NO	0.891	10.061	36.874	36.84	1.001	1.000	2.5028		0.0926	2.50
16	16 1,2,3,4,7,8,9-HpCDF	6.35e2	1.17	NO	1.00	10.061	38.807	38.84	1.000	1.001	0.25498		0.0851	0.255
17	17 OCDF	1.47e4	0.88	NO	0.784	10.061	41.413	41.42	1.000	1.000	7.8765		0.132	7.88
18	18 13C-2,3,7,8-TCDD	7.45e5	0.78	NO	1.15	10.061	26.405	26.42	1.029	1.029	103.80	52.2	0.119	
19	19 13C-1,2,3,7,8-PeCDD	8.41e5	0.62	NO	0.887	10.061	30.994	31.05	1.207	1.210	152.17	76.5	0.124	
20	20 13C-1,2,3,4,7,8-HxCDD	6.87e5	1.27	NO	0.801	10.061	34.351	34.35	1.014	1.014	159.96	80.5	0.294	
21	21 13C-1,2,3,6,7,8-HxCDD	7.90e5	1.25	NO	0.892	10.061	34.480	34.48	1.018	1.018	165.26	83.1	0.264	
22	22 13C-1,2,3,7,8,9-HxCDD	8.42e5	1.29	NO	0.882	10.061	34.741	34.74	1.025	1.025	178.09	89.6	0.267	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.77e5	1.04	NO	0.719	10.061	38.173	38.19	1.127	1.127	175.67	88.4	0.425	
24	24 13C-OCDD	9.72e5	0.89	NO	0.563	10.061	41.100	41.12	1.213	1.214	322.23	81.0	0.548	
25	25 13C-2,3,7,8-TCDF	8.54e5	0.77	NO	1.01	10.061	25.748	25.74	1.003	1.003	94.775	47.7	0.164	
26	26 13C-1,2,3,7,8-PeCDF	1.07e6	1.57	NO	0.814	10.061	29.754	29.80	1.159	1.161	147.42	74.2	0.278	
27	27 13C-2,3,4,7,8-PeCDF	1.01e6	1.58	NO	0.768	10.061	30.791	30.85	1.200	1.202	147.09	74.0	0.295	
28	28 13C-1,2,3,4,7,8-HxCDF	8.36e5	0.51	NO	0.993	10.061	33.429	33.44	0.987	0.987	157.21	79.1	0.400	
29	29 13C-1,2,3,6,7,8-HxCDF	8.62e5	0.50	NO	0.990	10.061	33.572	33.58	0.991	0.991	162.57	81.8	0.401	
30	30 13C-2,3,4,6,7,8-HxCDF	8.52e5	0.52	NO	0.944	10.061	34.239	34.24	1.011	1.011	168.42	84.7	0.420	

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Last Altered: Thursday, October 22, 2020 13:42:41 Pacific Daylight Time  
Printed: Thursday, October 22, 2020 13:46:02 Pacific Daylight Time

Name: 200930R2\_14, Date: 01-Oct-2020, Time: 07:26:57, ID: 2001995-15 PDI-174SC-A-01-02-200521 10, Description: PDI-174SC-A-01-02-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	7.42e5	0.51	NO	0.842	10.061	35.256	35.24	1.041	1.040	164.66	82.8	0.471	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.59e5	0.45	NO	0.687	10.061	36.845	36.84	1.087	1.087	179.22	90.2	0.430	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.95e5	0.42	NO	0.555	10.061	38.793	38.81	1.145	1.145	166.58	83.8	0.533	
34	34 13C-OCDF	9.47e5	0.88	NO	0.608	10.061	41.381	41.41	1.221	1.222	290.60	73.1	0.510	
35	35 37Cl-2,3,7,8-TCDD	2.74e5			1.18	10.061	26.435	26.43	1.030	1.030	37.308	46.9	0.0351	
36	36 13C-1,2,3,4-TCDD	1.24e6	0.78	NO	1.00	10.061	25.740	25.67	1.000	1.000	198.79	100	0.137	
37	37 13C-1,2,3,4-TCDF	1.77e6	0.79	NO	1.00	10.061	24.310	24.20	1.000	1.000	198.79	100	0.166	
38	38 13C-1,2,3,4,6,9-HxCDF	1.06e6	0.51	NO	1.00	10.061	33.920	33.88	1.000	1.000	198.79	100	0.397	
39	39 Total Tetra-Dioxins				1.02	10.061	24.620		0.000		0.00000		0.0255	0.130
40	40 Total Penta-Dioxins				0.956	10.061	29.960		0.000		0.71120		0.0797	0.922
41	41 Total Hexa-Dioxins				0.888	10.061	33.635		0.000		10.790		0.106	10.8
42	42 Total Hepta-Dioxins				0.832	10.061	37.640		0.000		67.195		0.290	67.2
43	43 Total Tetra-Furans				0.735	10.061	23.610		0.000		0.62410		0.0572	1.05
44	44 1st Func. Penta-Furans				0.939	10.061	27.230		0.000		1.0001		0.0165	1.00
45	45 Total Penta-Furans				0.939	10.061	29.275		0.000		1.5971		0.0450	1.60
46	46 Total Hexa-Furans				0.870	10.061	33.555		0.000		4.8015		0.101	4.80
47	47 Total Hepta-Furans				0.891	10.061	37.835		0.000		8.4011		0.0939	8.40

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-14.qld

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Name: 200930R2\_14, Date: 01-Oct-2020, Time: 07:26:57, ID: 2001995-15 PDI-174SC-A-01-02-200521 10, Description: PDI-174SC-A-01-02-200521

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	26.16	4.493e3	4.118e3	2.714e2	2.790e2	0.97	YES	0.000e0	0.00000	0.12964	0.0443

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.81	9.585e3	1.085e4	6.092e2	8.785e2	0.69	NO	1.488e3	0.36787	0.36787	0.0797
2	Total Penta-Dioxins	29.29	3.737e3	6.196e3	2.027e2	2.994e2	0.68	NO	5.021e2	0.12415	0.12415	0.0797
3	Total Penta-Dioxins	30.01	6.224e3	6.202e3	3.900e2	5.231e2	0.75	YES	0.000e0	0.00000	0.21083	0.0797
4	Total Penta-Dioxins	30.33	5.926e3	8.216e3	3.342e2	5.522e2	0.61	NO	8.864e2	0.21918	0.21918	0.0797

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	1.499e5	1.192e5	7.223e3	5.906e3	1.22	NO	1.313e4	3.8038	3.8038	0.106
2	Total Hexa-Dioxins	33.33	1.560e4	1.123e4	8.500e2	6.551e2	1.30	NO	1.505e3	0.43606	0.43606	0.106
3	Total Hexa-Dioxins	33.61	1.259e5	9.705e4	8.477e3	6.652e3	1.27	NO	1.513e4	4.3832	4.3832	0.106
4	Total Hexa-Dioxins	33.69	1.138e4	8.633e3	6.138e2	4.663e2	1.32	NO	1.080e3	0.31294	0.31294	0.106
5	1,2,3,4,7,8-HxCDD	34.37	7.482e3	6.109e3	3.297e2	2.638e2	1.25	NO	5.936e2	0.17153	0.17153	0.0997
6	1,2,3,6,7,8-HxCDD	34.50	3.219e4	2.812e4	1.983e3	1.627e3	1.22	NO	3.610e3	1.0234	1.0234	0.104
7	Total Hexa-Dioxins	34.65	4.985e3	4.408e3	3.488e2	2.990e2	1.17	NO	6.478e2	0.18768	0.18768	0.106
8	1,2,3,7,8,9-HxCDD	34.76	1.899e4	1.569e4	1.001e3	8.130e2	1.23	NO	1.814e3	0.47109	0.47109	0.0995

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.23	7.890e5	7.673e5	5.523e4	5.547e4	1.00	NO	1.107e5	39.106	39.106	0.290
2	1,2,3,4,6,7,8-HpCDD	38.20	7.250e5	7.044e5	4.045e4	3.906e4	1.04	NO	7.951e4	28.089	28.089	0.290

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Name: 200930R2\_14, Date: 01-Oct-2020, Time: 07:26:57, ID: 2001995-15 PDI-174SC-A-01-02-200521 10, Description: PDI-174SC-A-01-02-200521

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.88	4.657e3	6.037e3	3.613e2	4.103e2	0.88	NO	7.716e2	0.24439	0.24439	0.0572
2	Total Tetra-Furans	24.77	1.047e4	8.956e3	5.510e2	6.479e2	0.85	NO	1.199e3	0.37972	0.37972	0.0572
3	2,3,7,8-TCDF	25.76	9.905e3	1.508e4	5.788e2	9.318e2	0.62	YES	1.511e3	0.00000	0.42139	0.0572

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.22	4.897e4	2.907e4	3.132e3	1.776e3	1.76	NO	4.908e3	1.0001	1.0001	0.0165

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.83	2.321e4	1.944e4	1.464e3	1.052e3	1.39	NO	2.516e3	0.51270	0.51270	0.0450
2	1,2,3,7,8-PeCDF	29.83	3.179e4	1.810e4	1.733e3	1.076e3	1.61	NO	2.809e3	0.55548	0.55548	0.0448
3	Total Penta-Furans	30.06	1.476e4	5.674e3	5.949e2	3.414e2	1.74	NO	9.362e2	0.19079	0.19079	0.0450
4	2,3,4,7,8-PeCDF	30.86	2.207e4	1.415e4	1.060e3	7.387e2	1.44	NO	1.799e3	0.33808	0.33808	0.0404

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.19	1.494e4	1.403e4	7.764e2	7.120e2	1.09	NO	1.488e3	0.41323	0.41323	0.101
2	Total Hexa-Furans	32.35	5.080e4	3.999e4	2.386e3	1.874e3	1.27	NO	4.260e3	1.1827	1.1827	0.101
3	Total Hexa-Furans	32.99	6.272e4	4.766e4	3.250e3	2.578e3	1.26	NO	5.828e3	1.6180	1.6180	0.101
4	1,2,3,4,7,8-HxCDF	33.45	4.630e4	4.057e4	2.377e3	2.015e3	1.18	NO	4.393e3	1.2407	1.2407	0.0949
5	1,2,3,6,7,8-HxCDF	33.60	1.293e4	1.318e4	7.194e2	6.258e2	1.15	NO	1.345e3	0.34699	0.34699	0.0919

**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	36.84	5.134e4	5.743e4	3.748e3	3.647e3	1.03	NO	7.395e3	2.5028	2.5028	0.0926
2	Total Hepta-Furans	37.55	1.100e5	1.140e5	7.273e3	7.320e3	0.99	NO	1.459e4	5.6433	5.6433	0.0939
3	1,2,3,4,7,8,9-HpCDF	38.84	5.712e3	5.444e3	3.418e2	2.930e2	1.17	NO	6.348e2	0.25498	0.25498	0.0851

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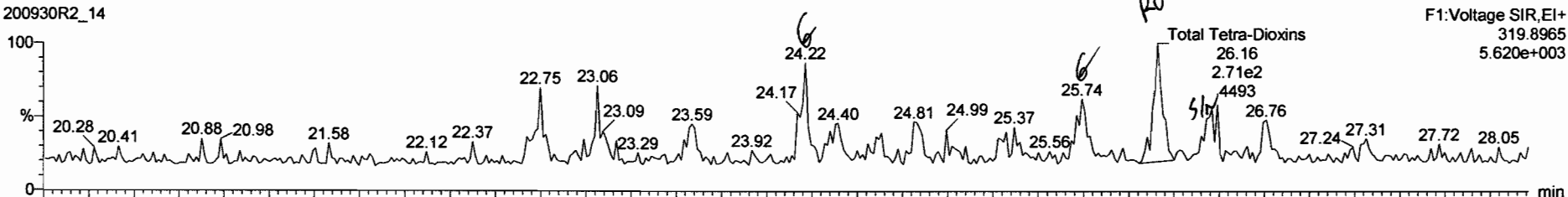
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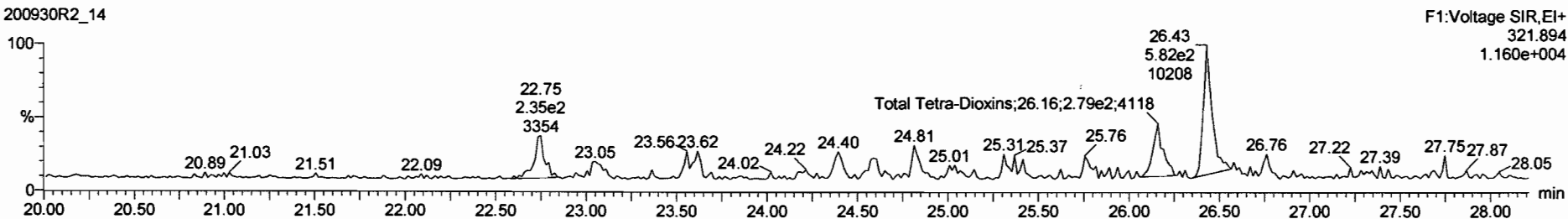
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**2,3,7,8-TCDD**

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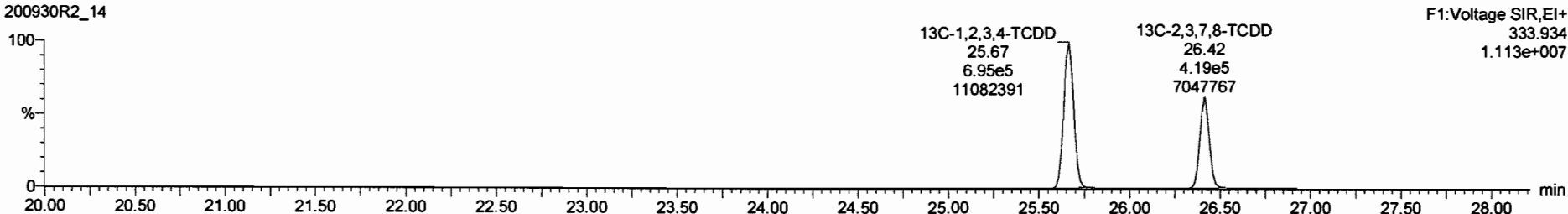


**13C-2,3,7,8-TCDD**

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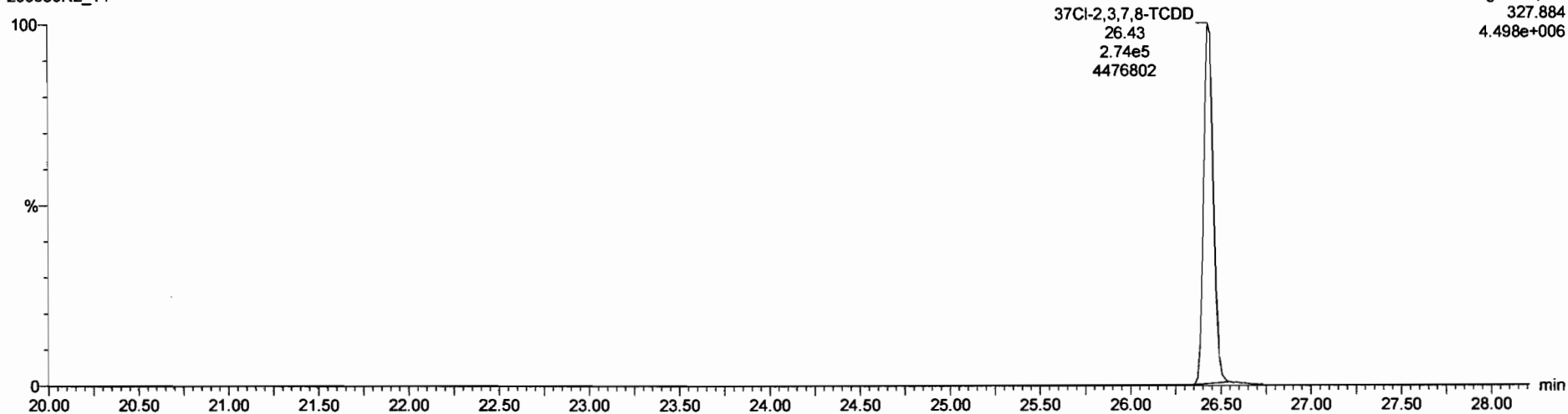
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**37Cl-2,3,7,8-TCDD**

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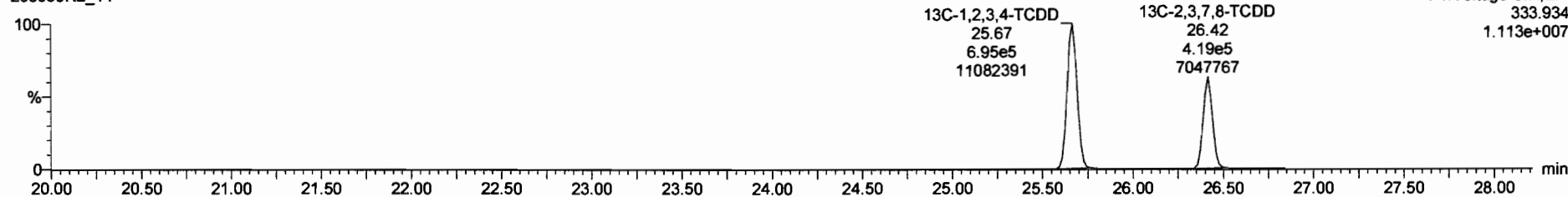


**13C-1,2,3,4-TCDD**

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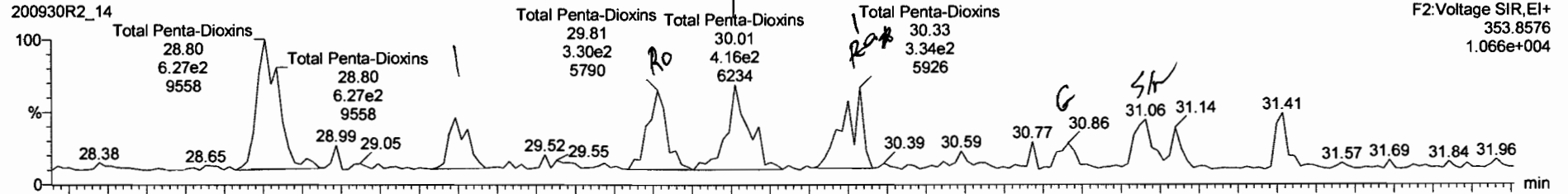
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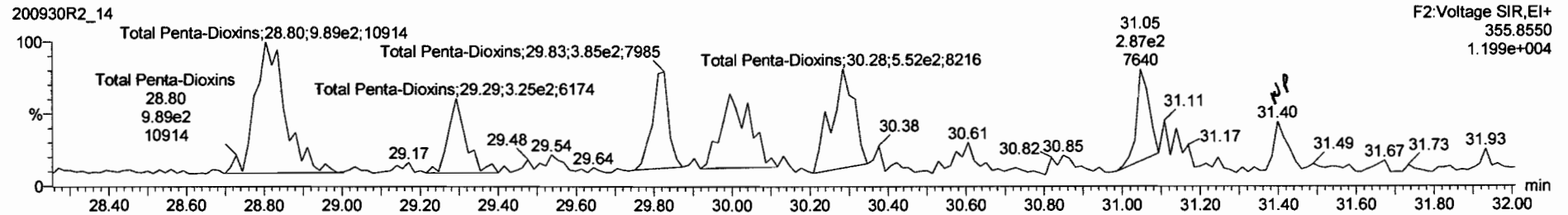
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**1,2,3,7,8-PeCDD**

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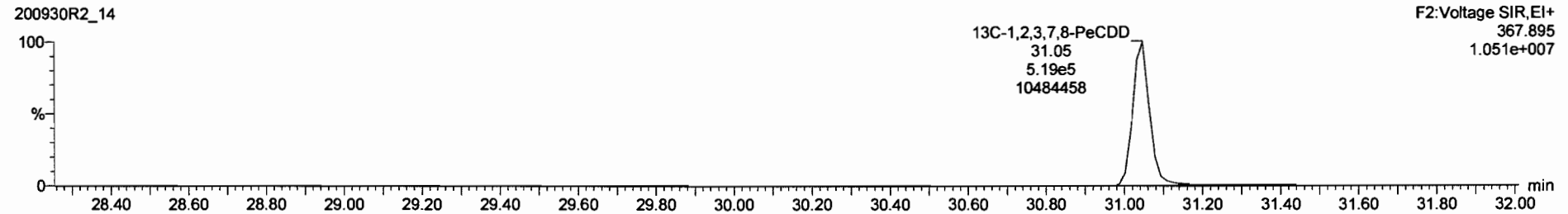


**13C-1,2,3,7,8-PeCDD**

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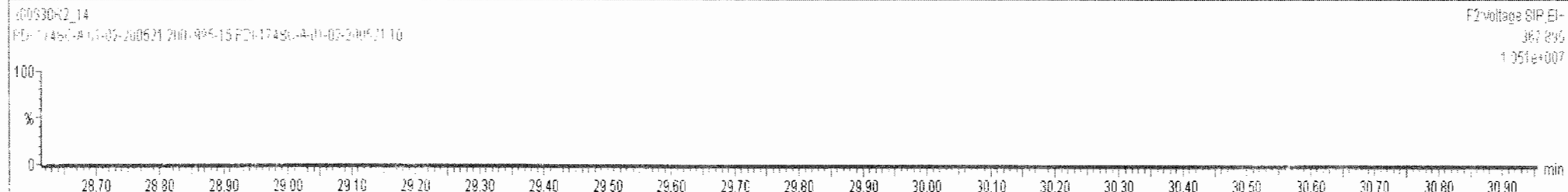
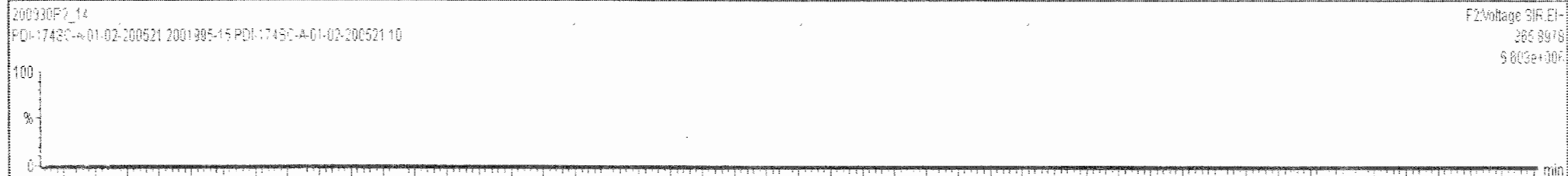
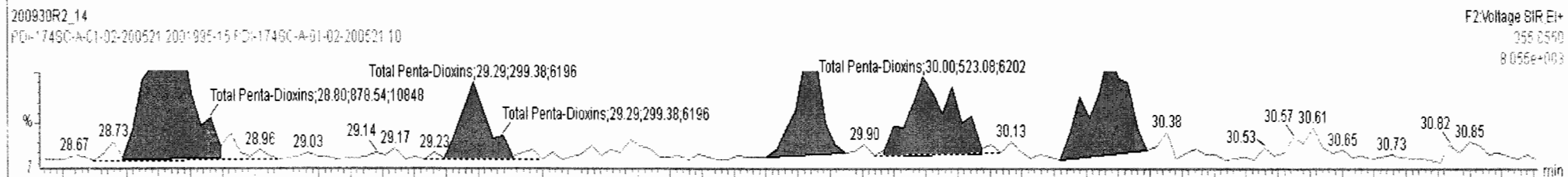
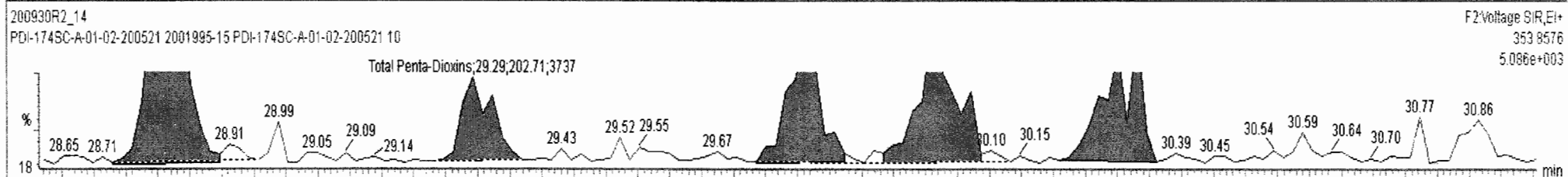
200930R2\_14



200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.061			0.000		0.0255	0.130
40 Total Penta-Dioxins				0.9961	10.061			0.711		0.0797	1.08
41 Total Hexa-Dioxins				0.8879	10.061			10.81		0.1061	10.81

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.80	6.092e2	6.785e2	0.69	NO	0.36767	0.36767
2 Total Penta-Dioxins	29.29	2.027e2	2.994e2	0.68	NO	0.12415	0.12415
3 Total Penta-Dioxins	29.81	3.245e2	3.847e2	0.84	YES	0.15504	0.00000
4 Total Penta-Dioxins	30.01	3.900e2	5.231e2	0.75	YES	0.21083	0.00000

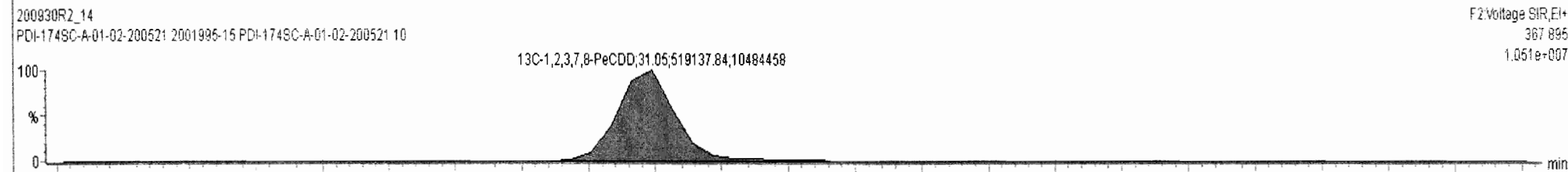
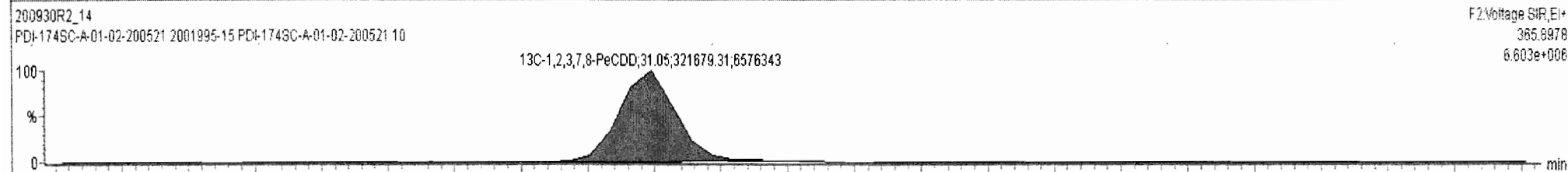
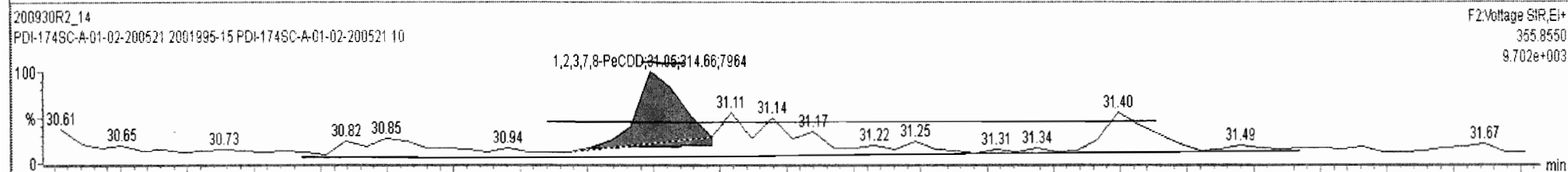
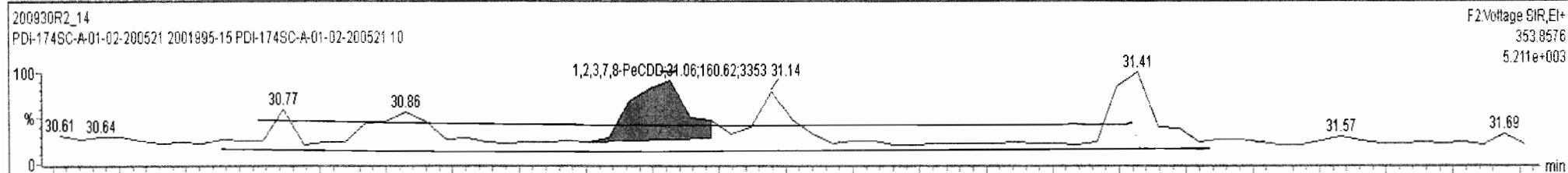




200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.061			0.000		0.0255	0.130
40 Total Penta-Dioxins				0.9561	10.061			0.711		0.0797	1.18
41 Total Hexa-Dioxins				0.8879	10.061			10.8		0.106	10.8

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
4 Total Penta-Dioxins	30.01	3.900e2	5.231e2	0.75	YES	0.21083	0.00000
5 Total Penta-Dioxins	30.33	3.342e2	5.522e2	0.61	NO	0.21918	0.21918
6 1,2,3,7,8-PeCDD	31.06	1.606e2	3.147e2	0.51	YES	0.10276	0.00000

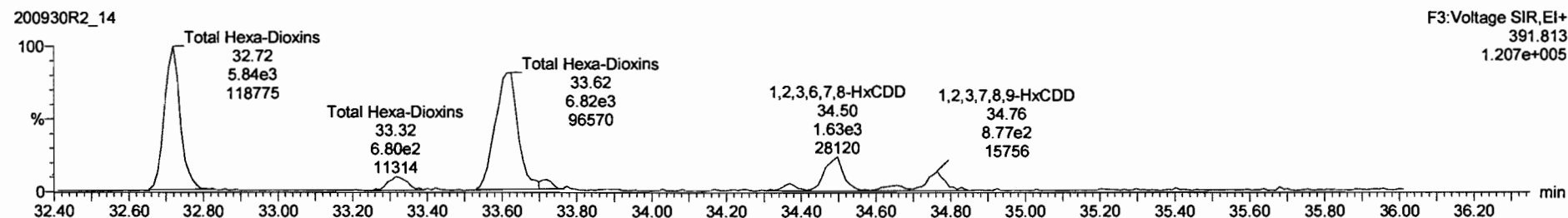
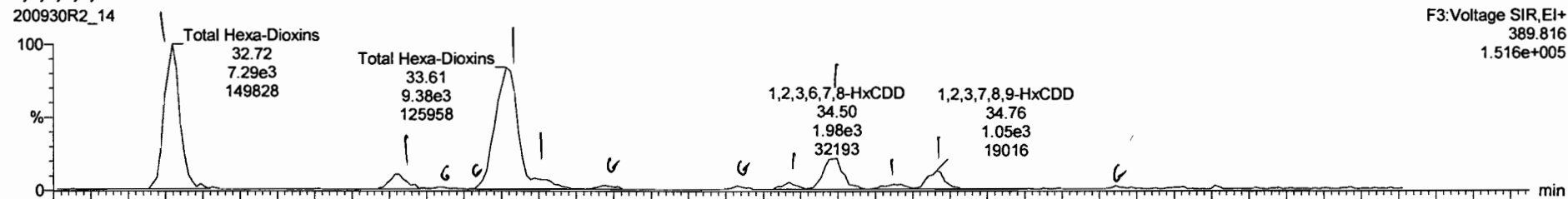


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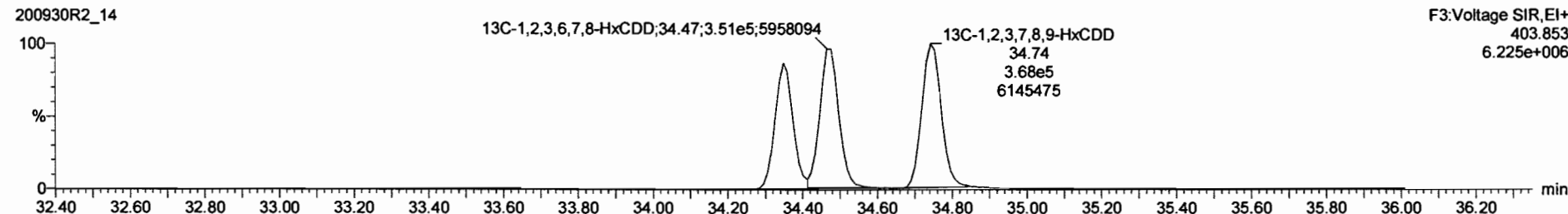
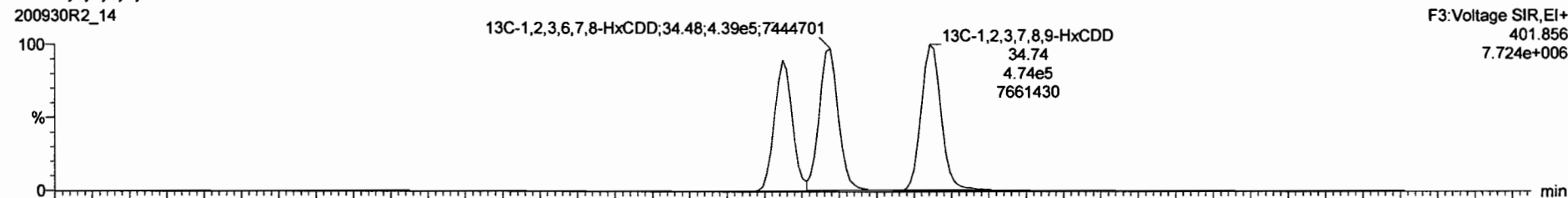
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1,2,3,4,7,8-HxCDD



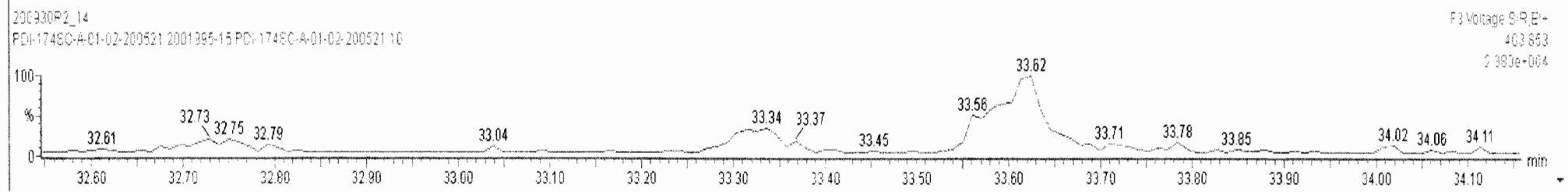
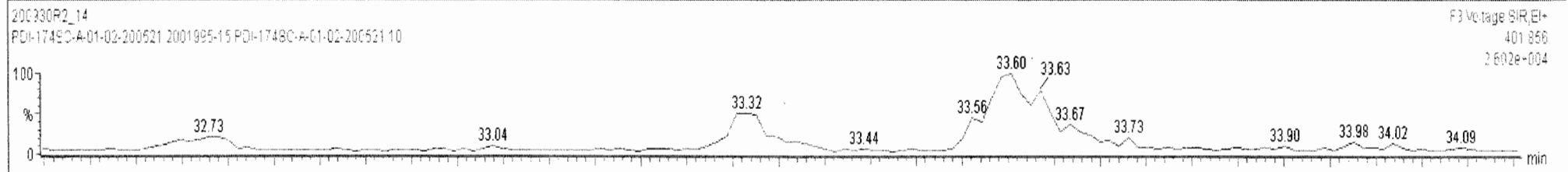
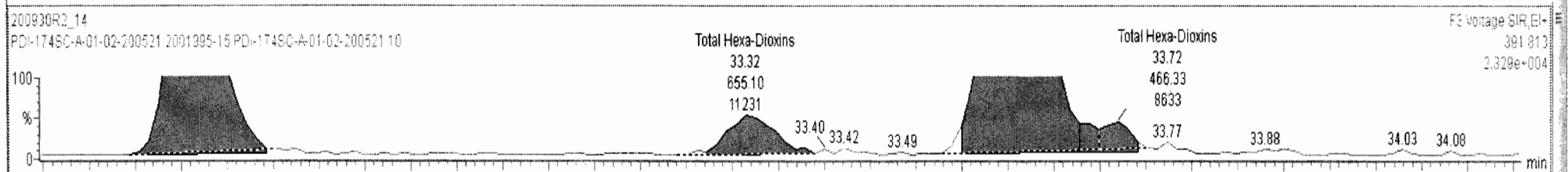
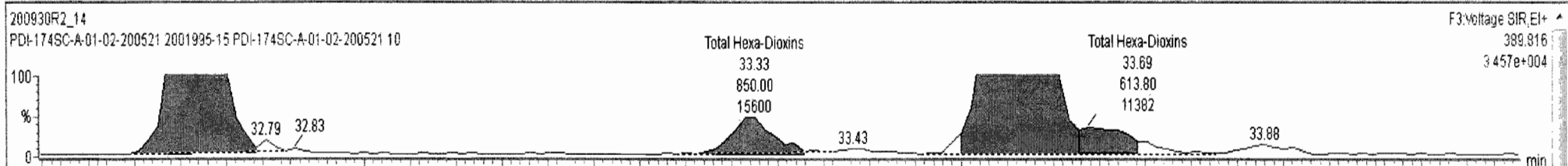
13C-1,2,3,4,7,8-HxCDD



200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.061			0.000		0.0255	0.130
40 Total Penta-Dioxins				0.9561	10.061			0.711		0.0797	0.922
41 Total Hexa-Dioxins				0.8829	10.061			10.8		0.106	10.8

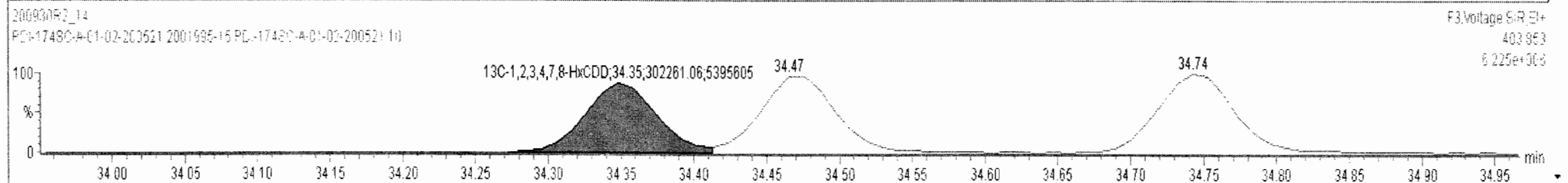
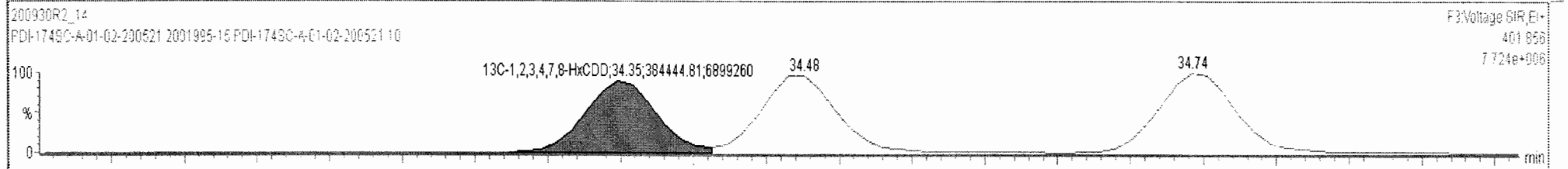
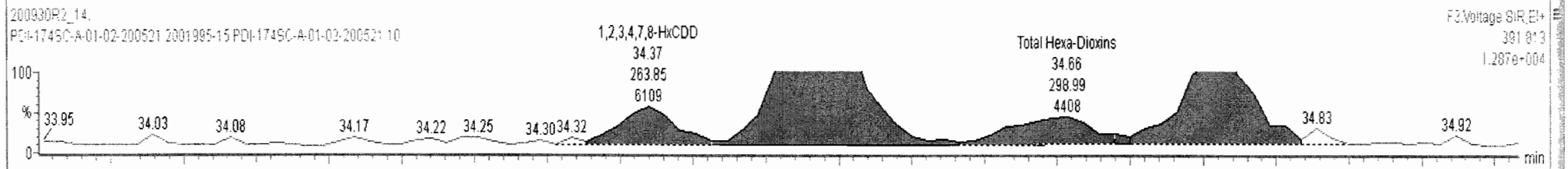
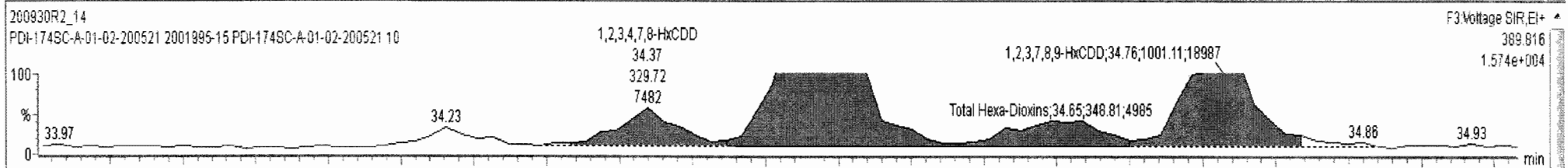
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.72	7.223e3	5.906e3	1.22	NO	3.8038	3.8038
2 Total Hexa-Dioxins	33.33	8.500e2	6.551e2	1.30	NO	0.43606	0.43606
3 Total Hexa-Dioxins	33.61	8.477e3	6.652e3	1.27	NO	4.3832	4.3832
4 Total Hexa-Dioxins	33.69	6.138e2	4.663e2	1.32	NO	0.31294	0.31294
5 1,2,3,4,7,8-HxCDD	34.37	3.297e2	2.638e2	1.25	NO	0.17153	0.17153
6 1,2,3,6,7,8-HxCDD	34.50	1.983e3	1.627e3	1.22	NO	1.0234	1.0234



200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.061			0.000		0.0255	0.130
40 Total Penta-Dioxins				0.9561	10.061			0.711		0.0797	0.922
41 Total Hexa-Dioxins				0.8879	10.061			10.8		0.106	10.8

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.72	7.223e3	5.906e3	1.22	NO	3.8038	3.8038
2 Total Hexa-Dioxins	33.33	8.500e2	6.551e2	1.30	NO	0.43606	0.43606
3 Total Hexa-Dioxins	33.61	8.477e3	6.652e3	1.27	NO	4.3832	4.3832
4 Total Hexa-Dioxins	33.69	6.138e2	4.663e2	1.32	NO	0.31294	0.31294
5 1,2,3,4,7,8-HxCDD	34.37	3.297e2	2.638e2	1.25	NO	0.17153	0.17153
6 1,2,3,6,7,8-HxCDD	34.50	1.983e3	1.627e3	1.22	NO	1.0234	1.0234



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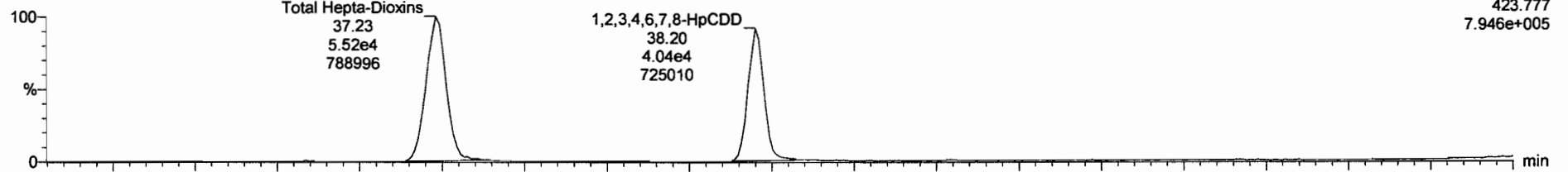
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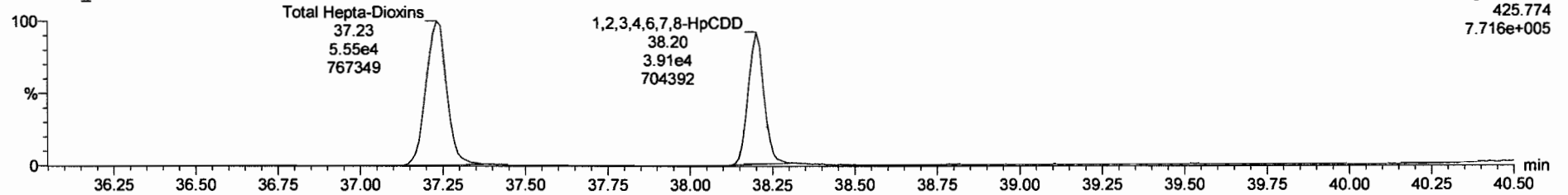
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1,2,3,4,6,7,8-HpCDD

200930R2\_14

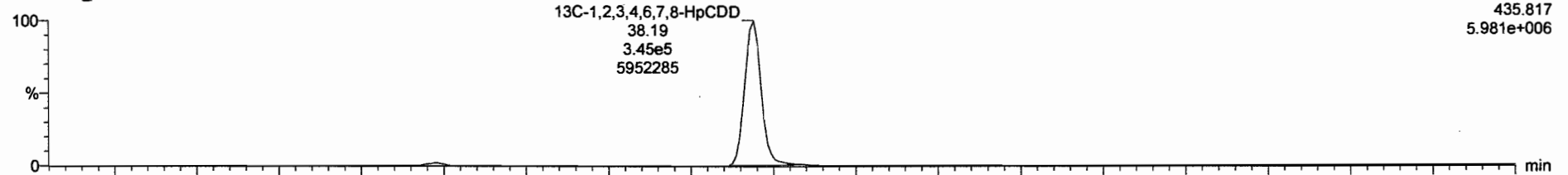


200930R2\_14

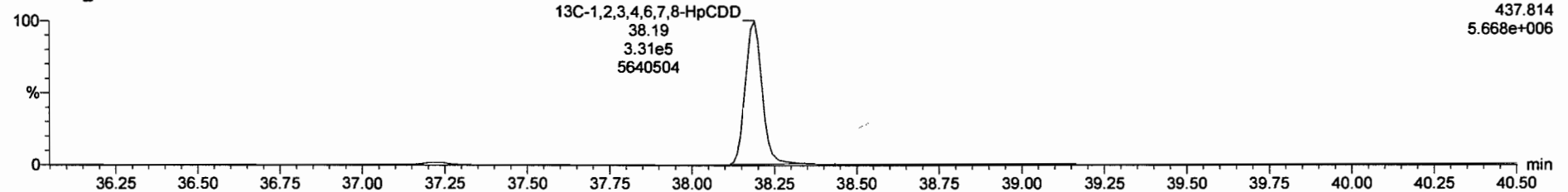


13C-1,2,3,4,6,7,8-HpCDD

200930R2\_14



200930R2\_14



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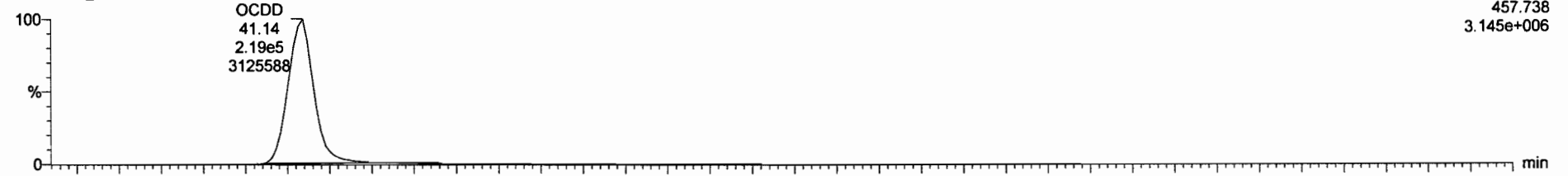
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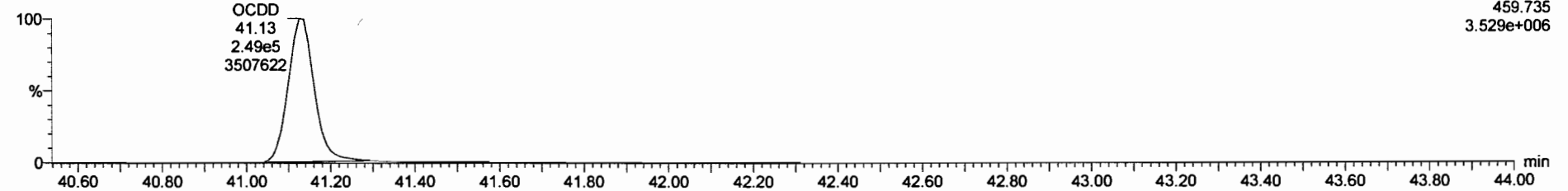
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OCDD

200930R2\_14

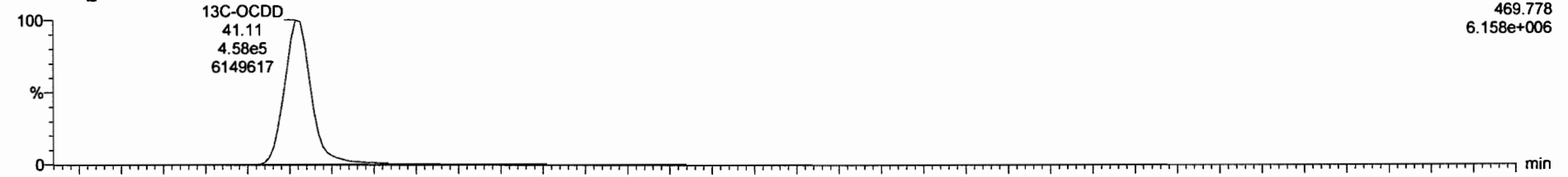


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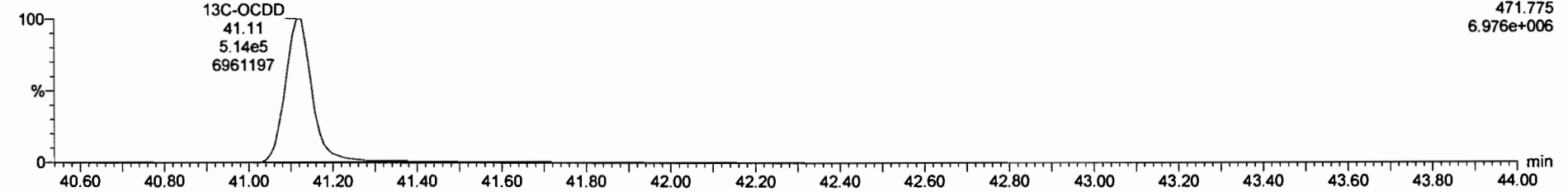


13C-OCDD

200930R2\_14



200930R2\_14



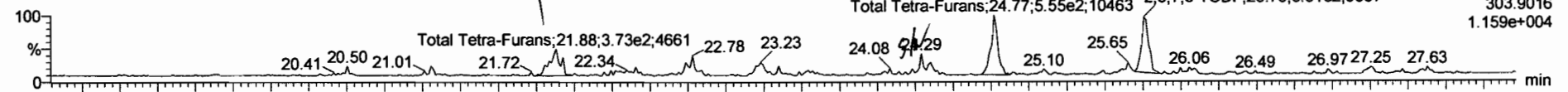
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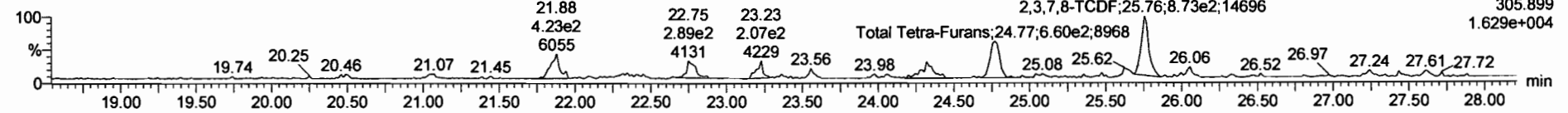
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**2,3,7,8-TCDF**

200930R2\_14

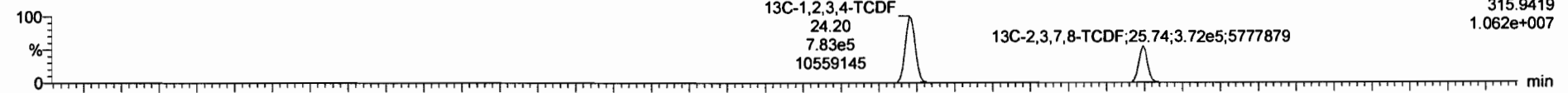


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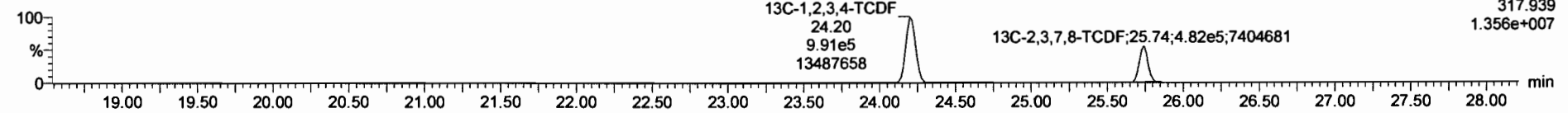


**13C-2,3,7,8-TCDF**

200930R2\_14

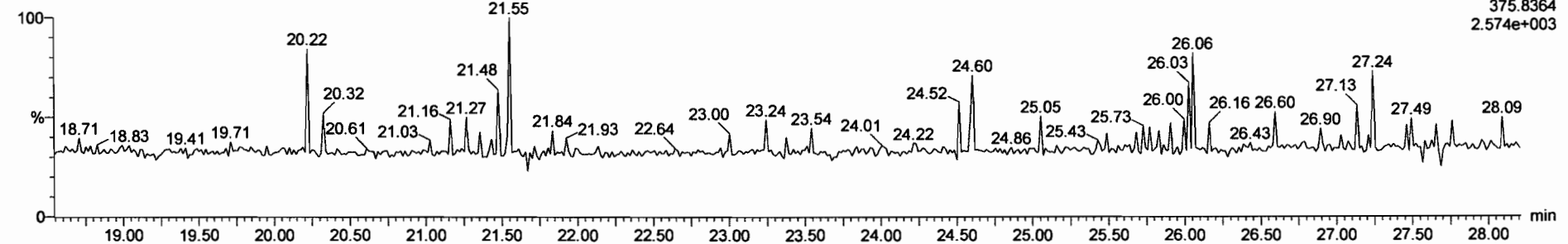


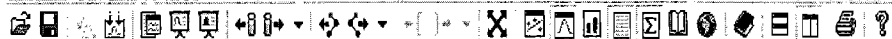
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**DPE1**

200930R2\_14

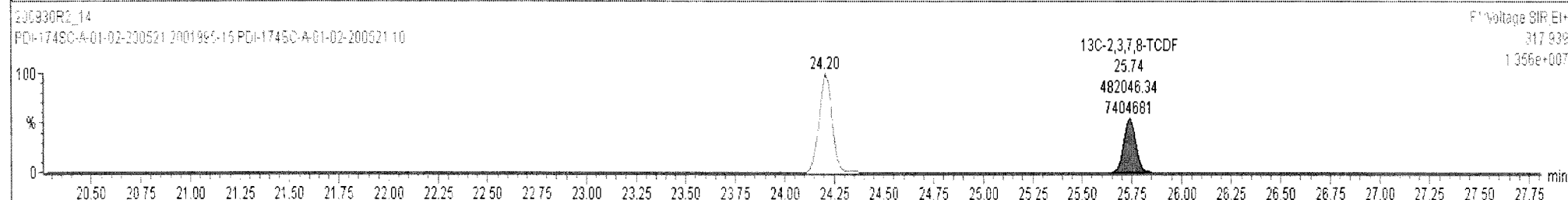
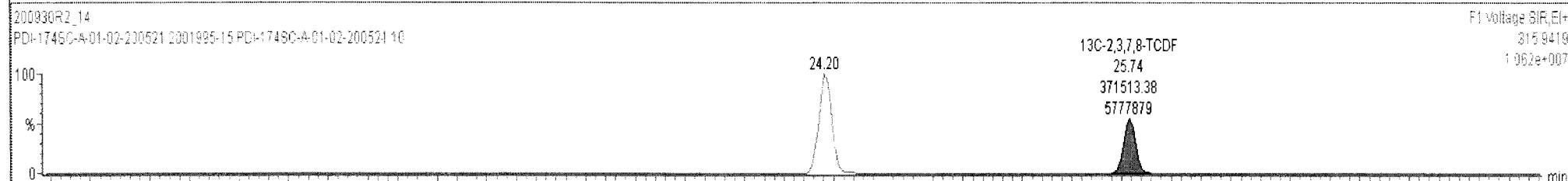
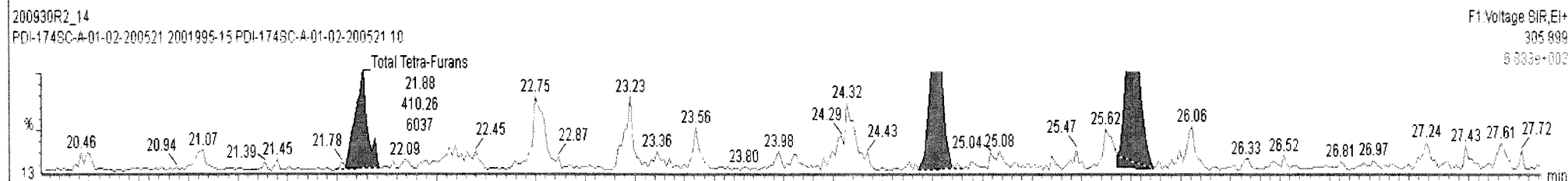
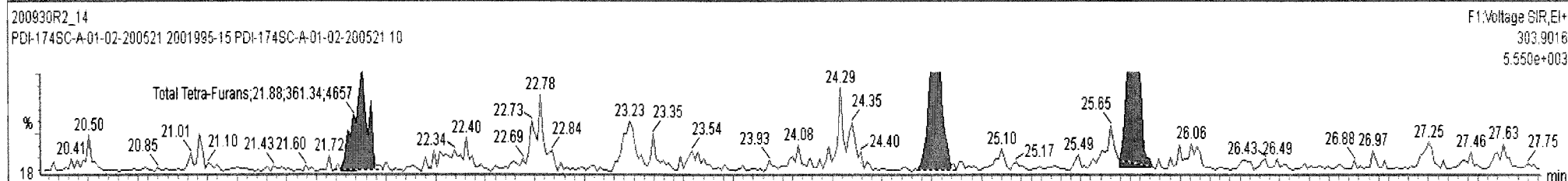




200930R2\_14 - 2001995-15 PDI-1745C-A-01-02-200521 10 - PDI-1745C-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans			0.7353	10.061			0.624		0.0572	1.05
44	1st Func. Penta-Furans			0.9386	10.061			1.00		0.0165	1.00
45	Total Penta-Furans			0.9386	10.061			1.62		0.0450	1.62

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	21.88	3.613e2	4.103e2	0.88	NO	0.24439
2	Total Tetra-Furans	24.77	5.510e2	6.479e2	0.85	NO	0.37972
3	2,3,7,8-TCDF	25.76	5.786e2	9.318e2	0.62	YES	0.42139





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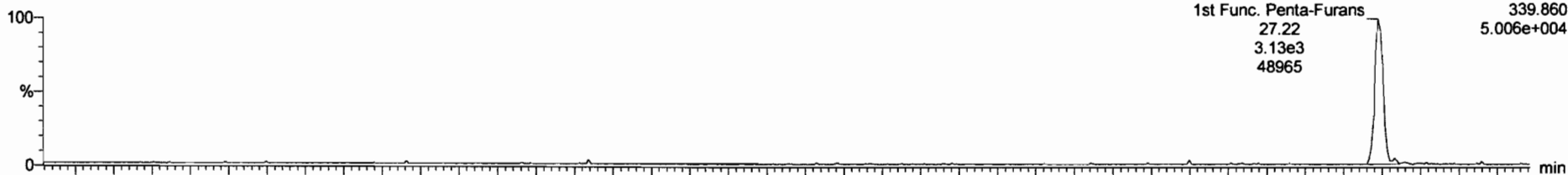
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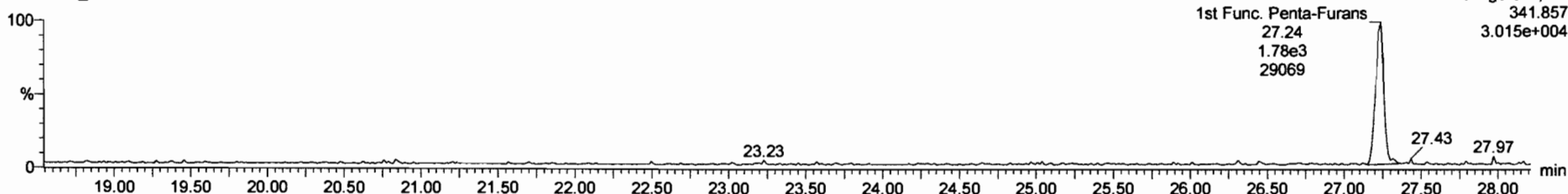
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1st Func. Penta-Furans

200930R2\_14

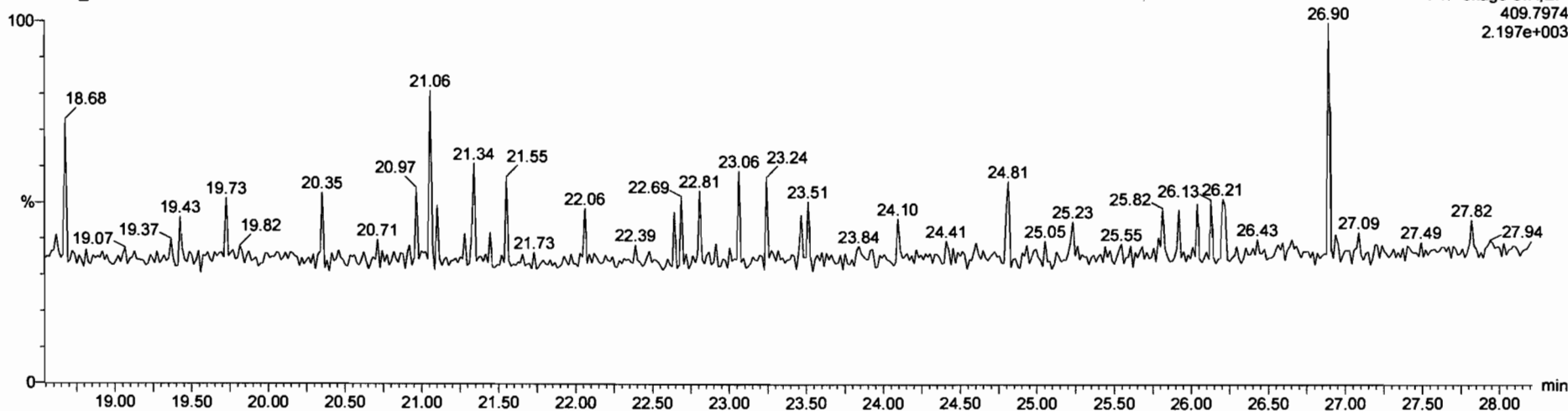


200930R2\_14



DPE6

200930R2\_14



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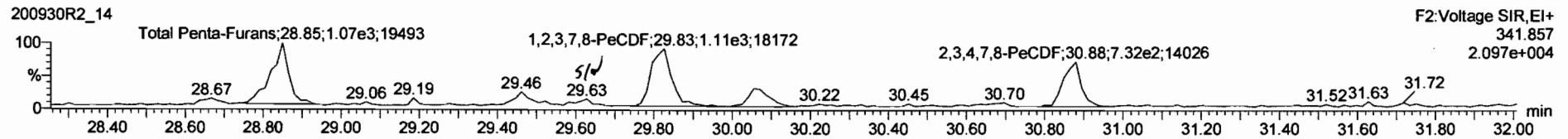
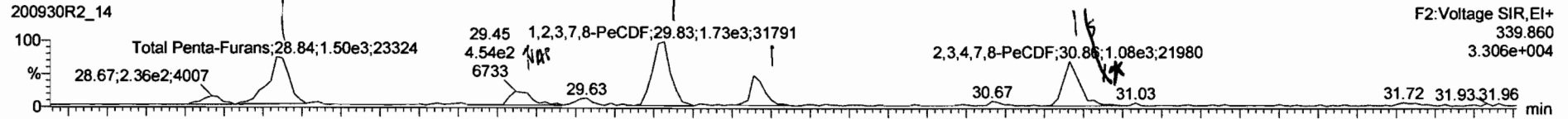
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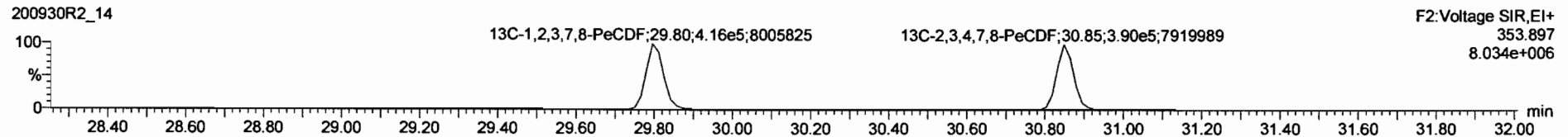
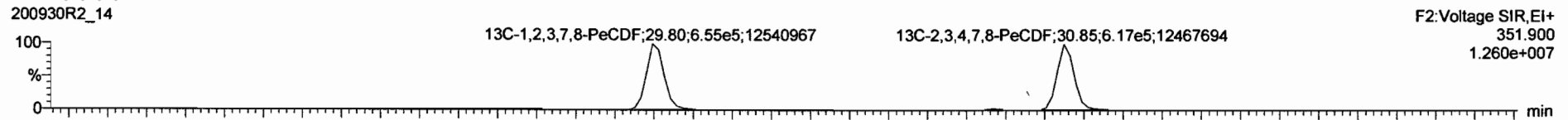
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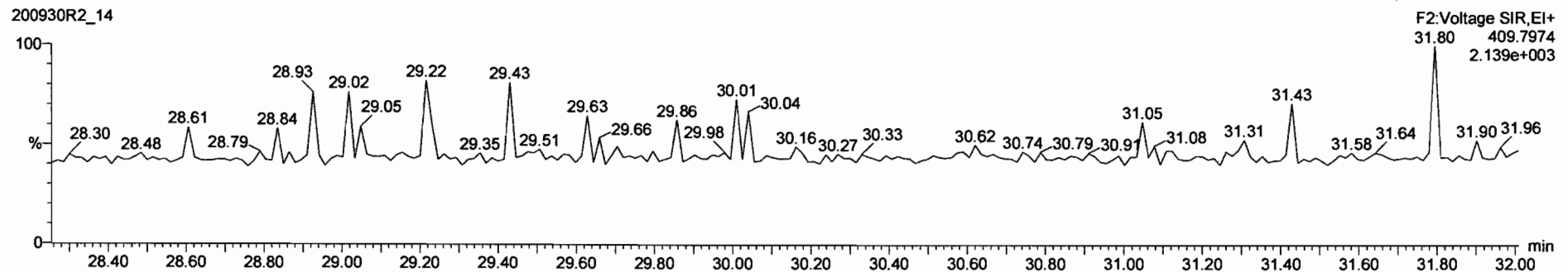
**1,2,3,7,8-PeCDF**



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



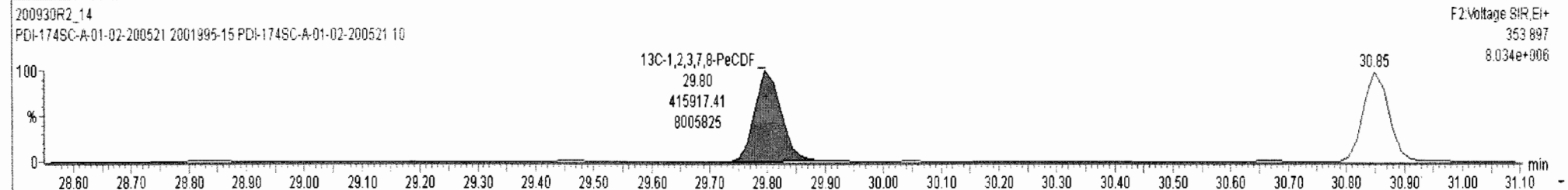
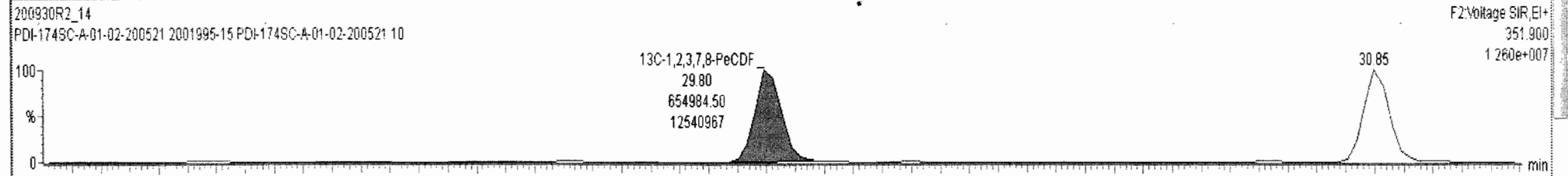
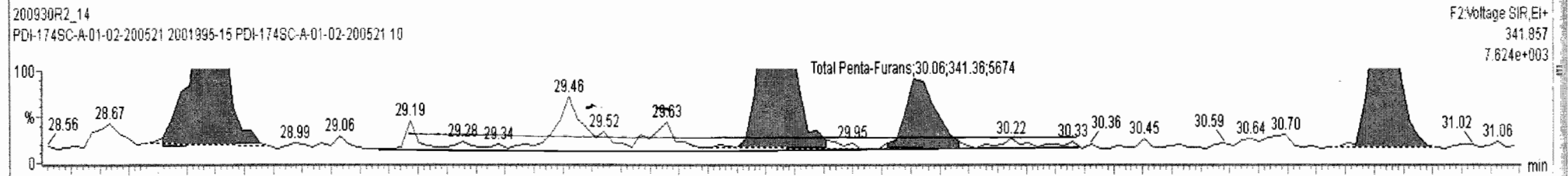
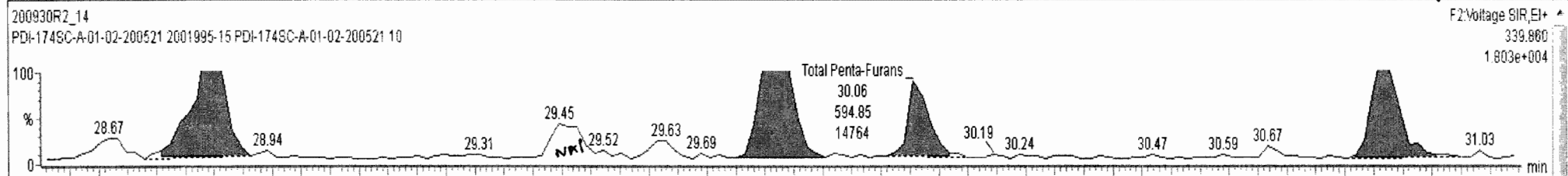
**DPE2**



200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.061			0.624		0.0572	1.05
44 1st Func. Penta-Furans				0.9386	10.061			1.00		0.0165	1.00
45 Total Penta-Furans				0.9386	10.061			1.69		0.0450	1.59

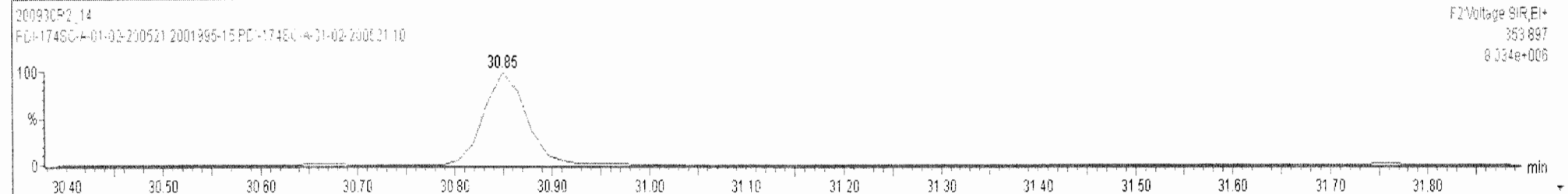
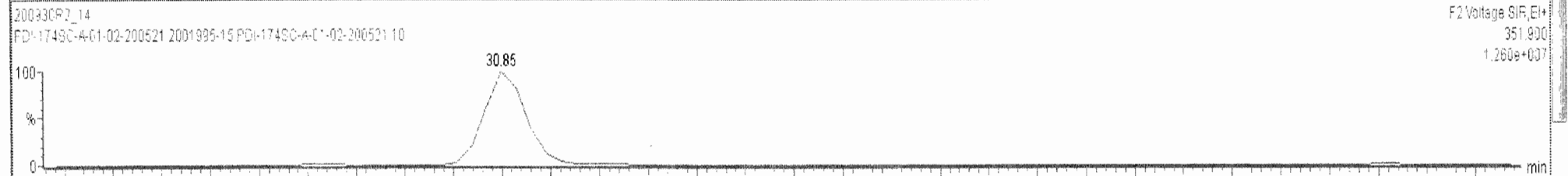
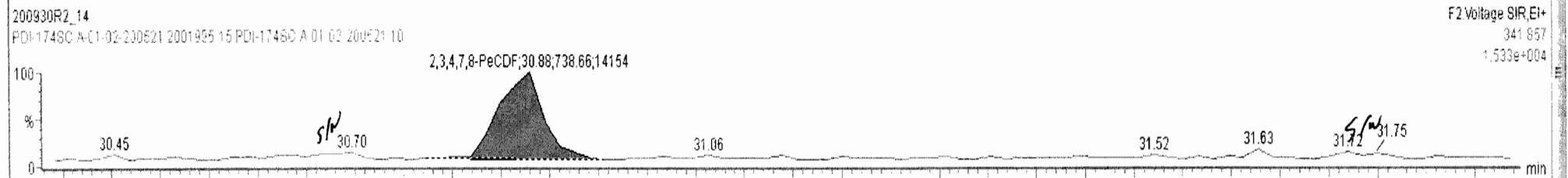
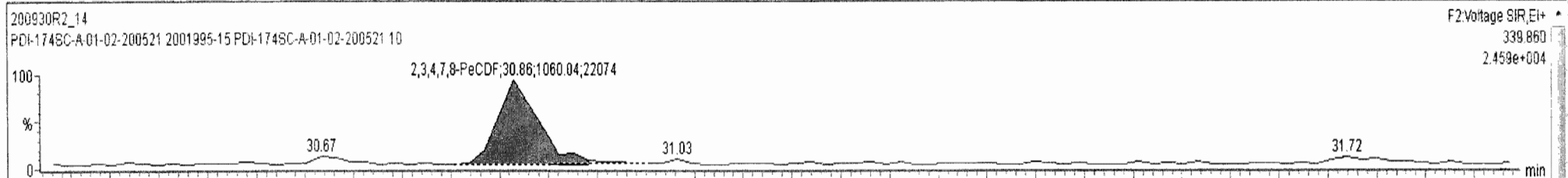
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.84	1.464e3	1.052e3	1.39	NO	0.51270	0.51270
2 1,2,3,7,8-PeCDF	29.83	1.733e3	1.076e3	1.61	NO	0.55548	0.55548
3 Total Penta-Furans	30.06	5.949e2	3.414e2	1.74	NO	0.19079	0.19079
4 2,3,4,7,8-PeCDF	30.86	1.058e3	7.227e2	1.46	NO	0.33472	0.33472



200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9386	10.061			1.60		0.0450	1.60
46 Total Hexa-Furans				0.8699	10.061			4.80		0.101	4.80
47 Total Hepta-Furans				0.8908	10.061			8.40		0.0939	8.40

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.83	1.464e3	1.052e3	1.39	NO	0.51270	0.51270
2 1,2,3,7,8-PeCDF	29.83	1.733e3	1.076e3	1.61	NO	0.55548	0.55548
3 Total Penta-Furans	30.06	5.949e2	3.414e2	1.74	NO	0.19079	0.19079

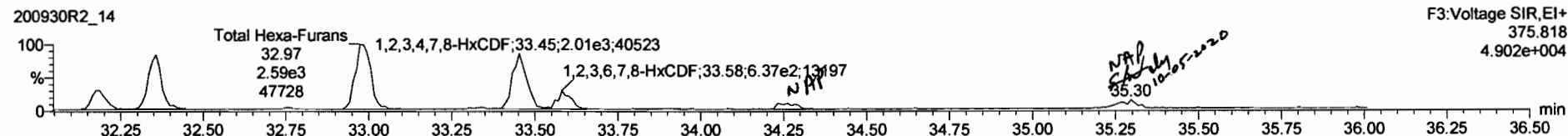
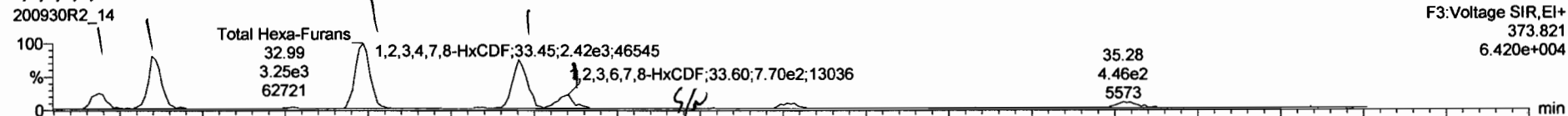


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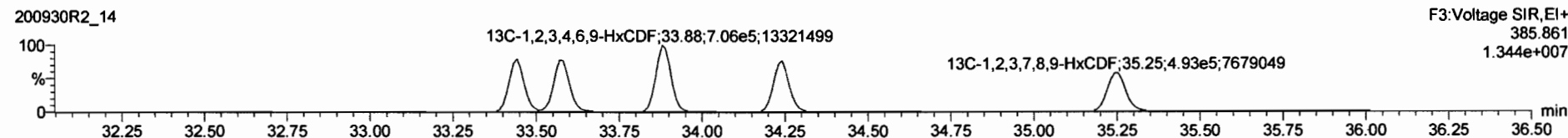
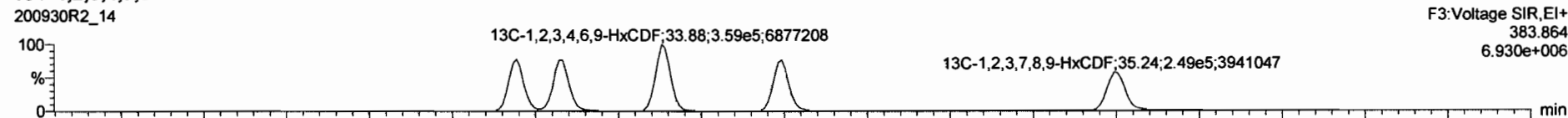
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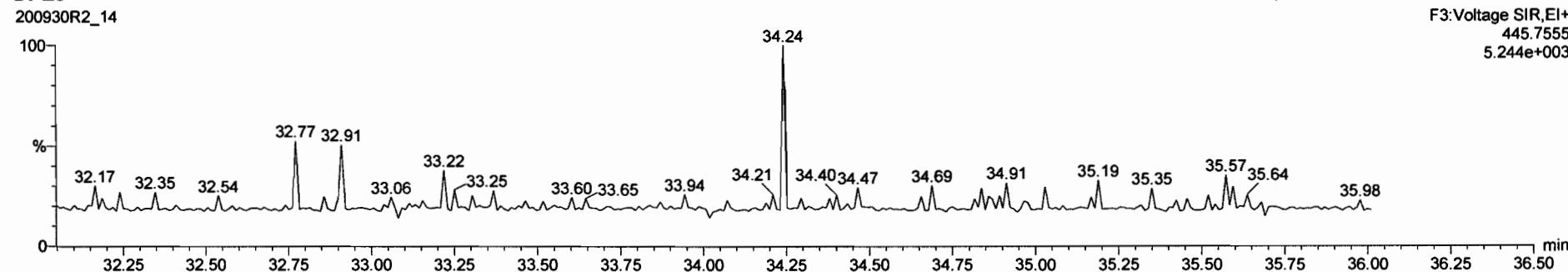
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**13C-1,2,3,4,7,8-HxCDF**



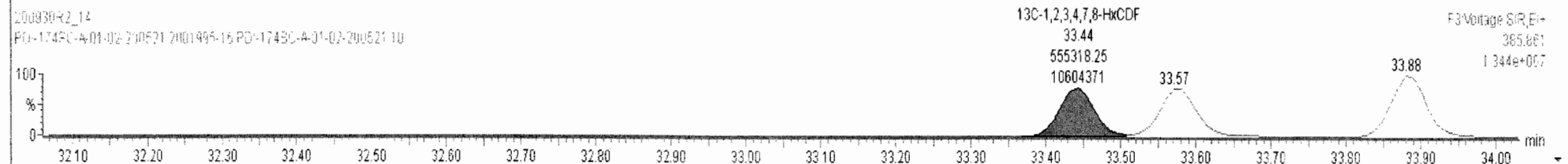
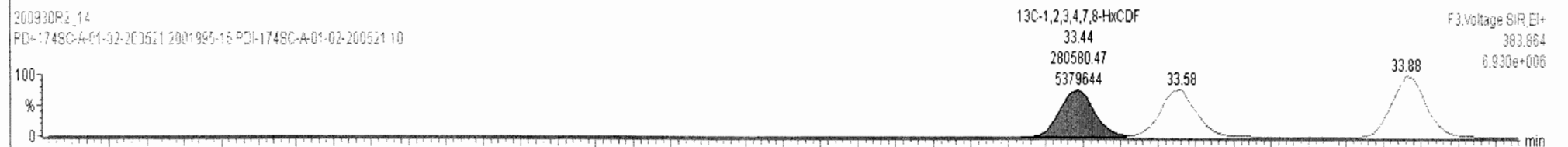
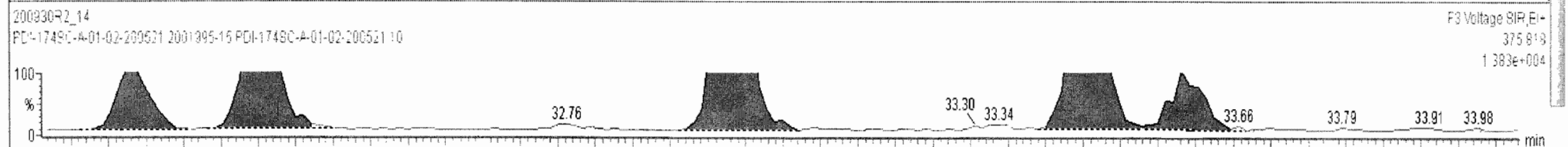
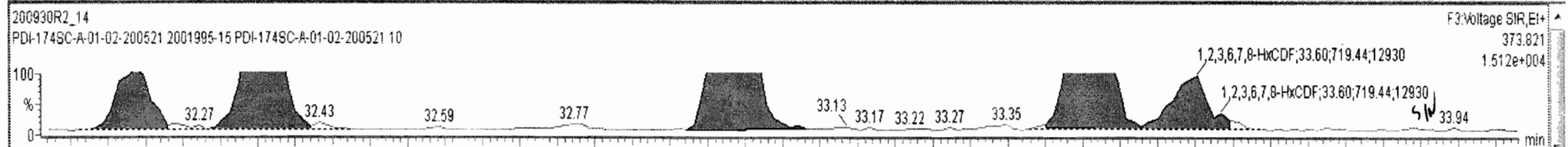
**DPE3**



200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.061			4.96		0.101	4.98
47 Total Hepta-Furans				0.8908	10.061			8.42		0.0939	8.42
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	7.764e2	7.120e2	1.09	NO	0.41323	0.41323
2 Total Hexa-Furans	32.35	2.386e3	1.874e3	1.27	NO	1.1827	1.1827
3 Total Hexa-Furans	32.99	3.250e3	2.578e3	1.26	NO	1.6180	1.6180
4 1,2,3,4,7,8-HxCDF	33.45	2.377e3	2.015e3	1.18	NO	1.2407	1.2407
5 1,2,3,6,7,8-HxCDF	33.60	7.194e2	6.258e2	1.15	NO	0.34699	0.34699
6 2,3,4,6,7,8-HxCDF	34.28	3.349e2	3.159e2	1.06	NO	0.17457	0.17457

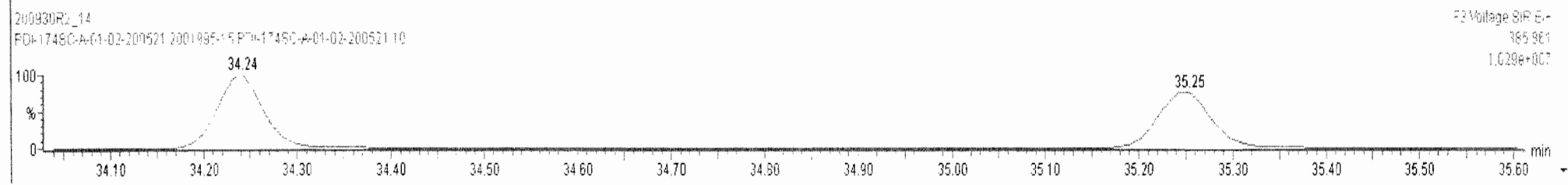
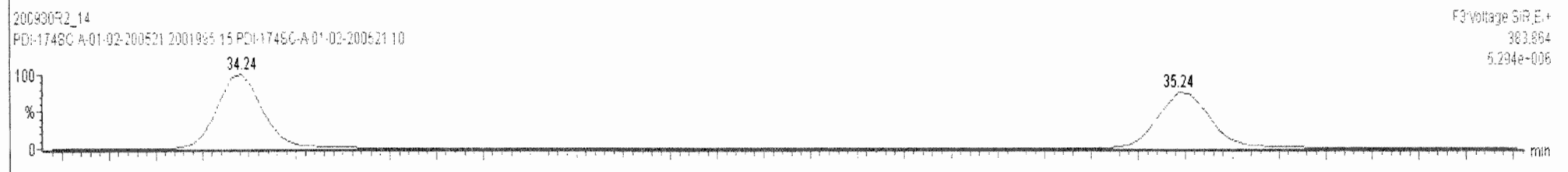
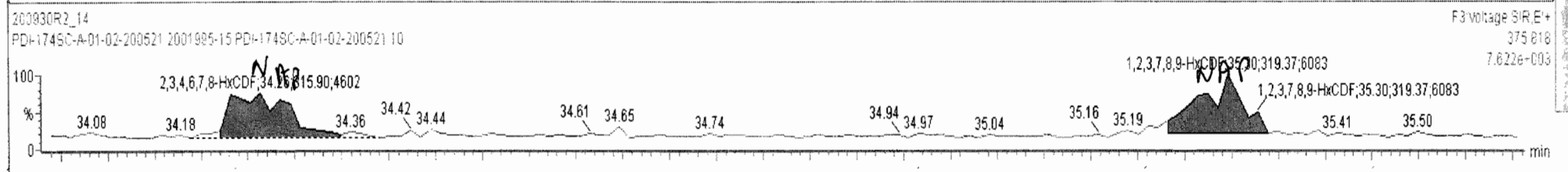
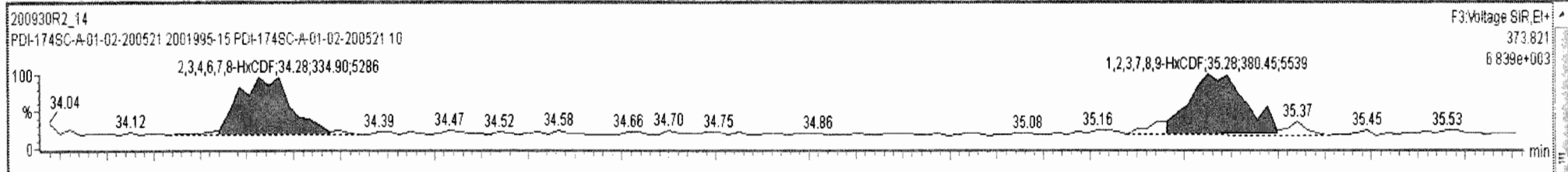


Ready

200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.061			5.20		0.101	5.20
47 Total Hepta-Furans				0.8908	10.061			8.42		0.0939	8.42
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	7.764e2	7.120e2	1.09	NO	0.41323	0.41323
2 Total Hexa-Furans	32.35	2.386e3	1.874e3	1.27	NO	1.1827	1.1827
3 Total Hexa-Furans	32.99	3.250e3	2.578e3	1.26	NO	1.6180	1.6180
4 1,2,3,4,7,8-HxCDF	33.45	2.377e3	2.015e3	1.18	NO	1.2407	1.2407
5 1,2,3,6,7,8-HxCDF	33.60	7.194e2	6.258e2	1.15	NO	0.34699	0.34699
6 2,3,4,6,7,8-HxCDF	34.28	3.349e2	3.159e2	1.06	NO	0.17457	0.17457
7 1,2,3,7,8,9-HxCDF	35.28	3.804e2	3.194e2	1.19	NO	0.21912	0.21912

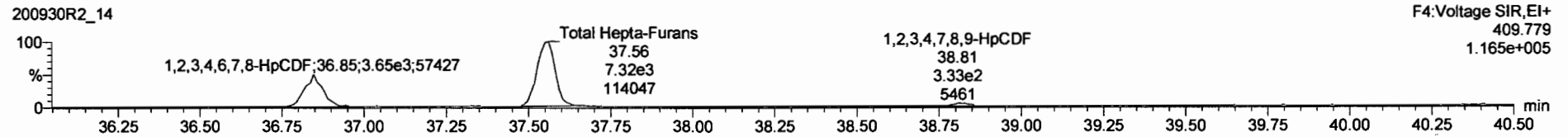
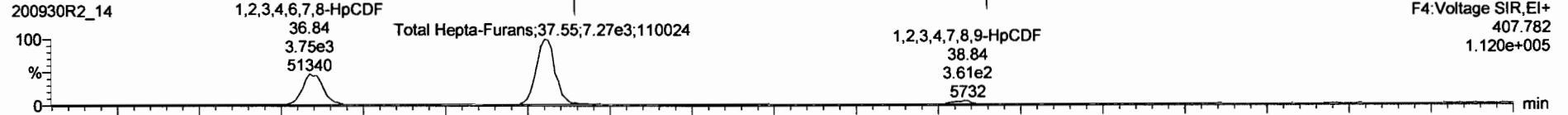


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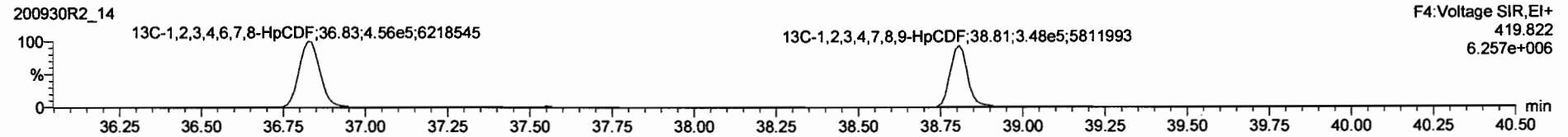
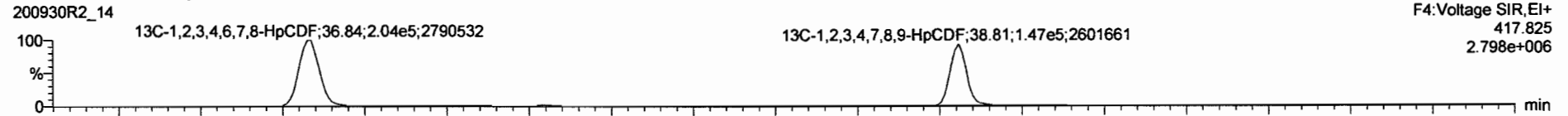
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Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

Name: 200930R2\_14, Date: 01-Oct-2020, Time: 07:26:57, ID: 2001995-15 PDI-174SC-A-01-02-200521 10, Description: PDI-174SC-A-01-02-200521

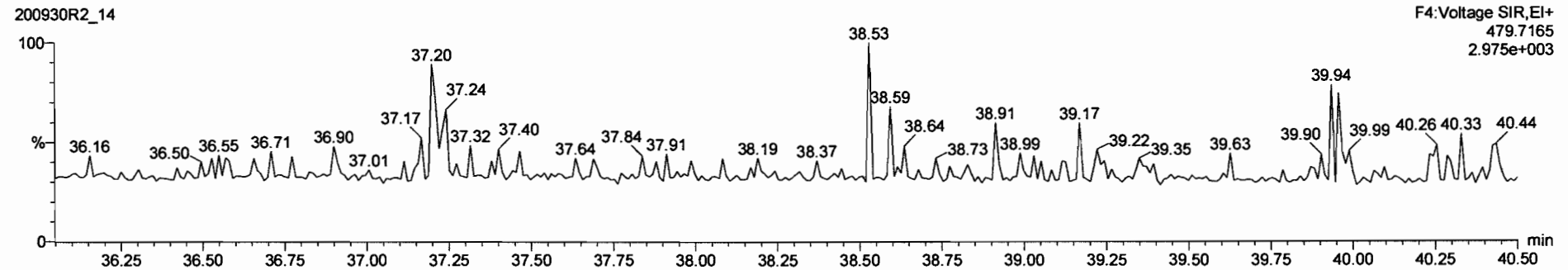
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**

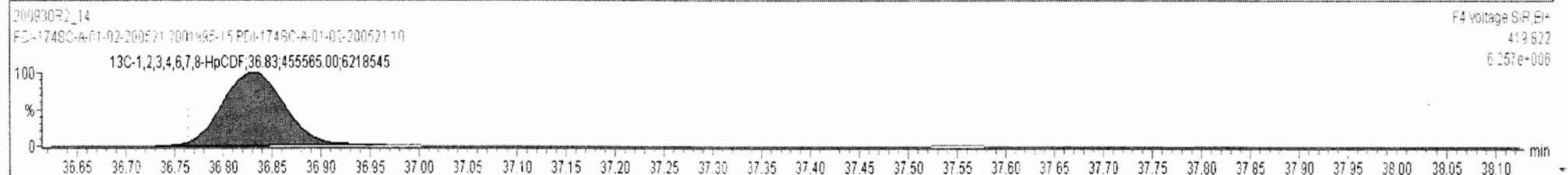
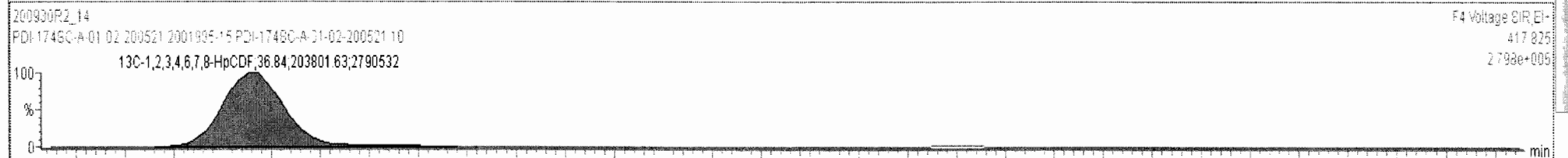
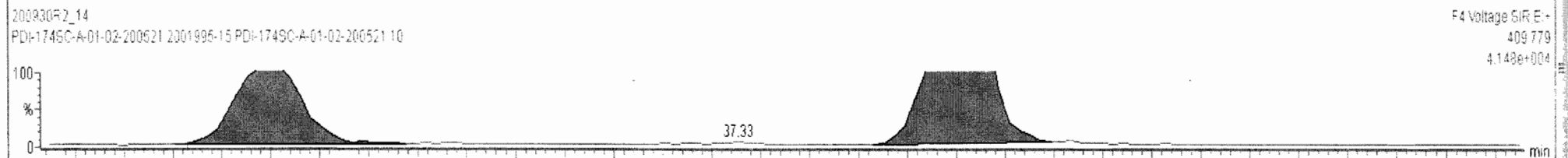
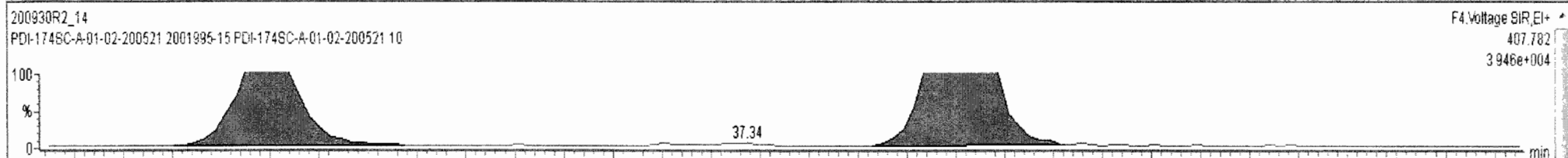




200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8699	10.061			4.80		0.101	4.80
47 Total Hepta-Furans				0.8908	10.061			8.42		0.0939	6.42
48 PFK1											

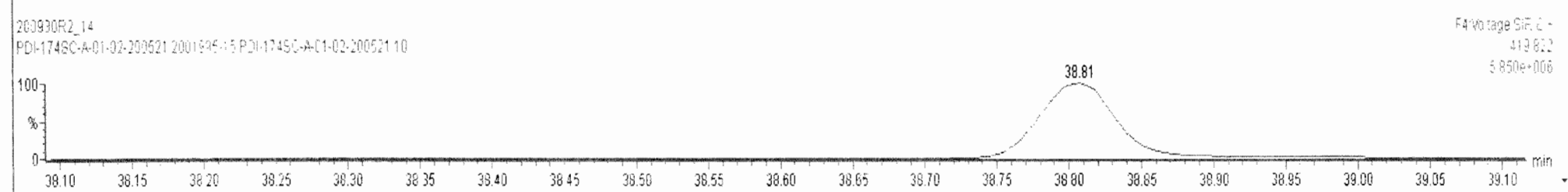
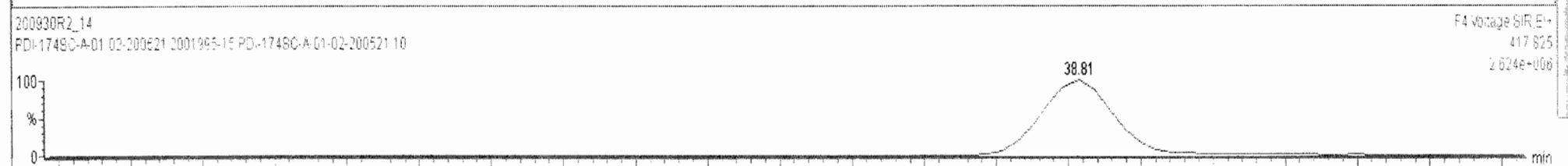
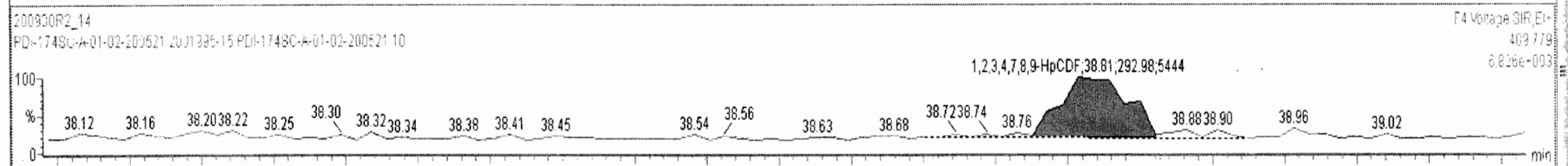
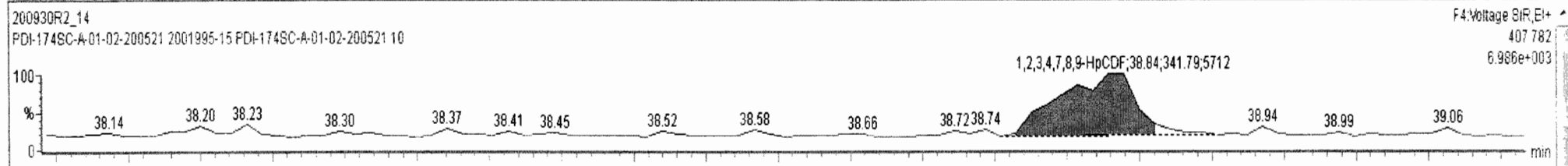
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.84	3.748e3	3.647e3	1.03	NO	2.5028	2.5028
2 Total Hepta-Furans	37.55	7.273e3	7.320e3	0.99	NO	5.6433	5.6433
3 1,2,3,4,7,8,9-HpCDF	38.84	3.613e2	3.325e2	1.09	NO	0.27869	0.27869



200930R2\_14 - 2001995-15 PDI-174SC-A-01-02-200521 10 - PDI-174SC-A-01-02-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8689	10.061			4.80		0.101	4.80
47 Total Hepta-Furans				0.8908	10.061			8.40		0.0339	8.40
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	38.84	3.748e3	3.647e3	1.03	NO	2.5028	2.5028
2 Total Hepta-Furans	37.55	7.273e3	7.320e3	0.99	NO	5.6433	5.6433
3 1,2,3,4,7,8,9-HpCDF	38.84	3.418e2	2.930e2	1.17	NO	0.25498	0.25498

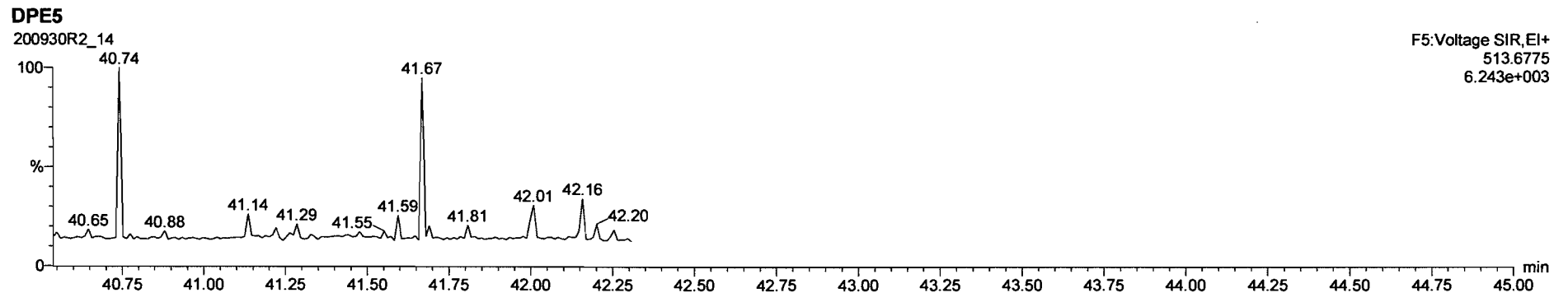
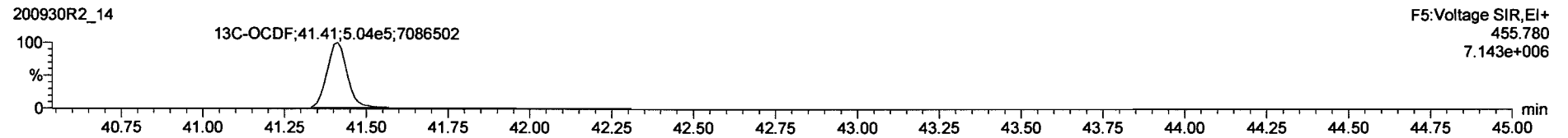
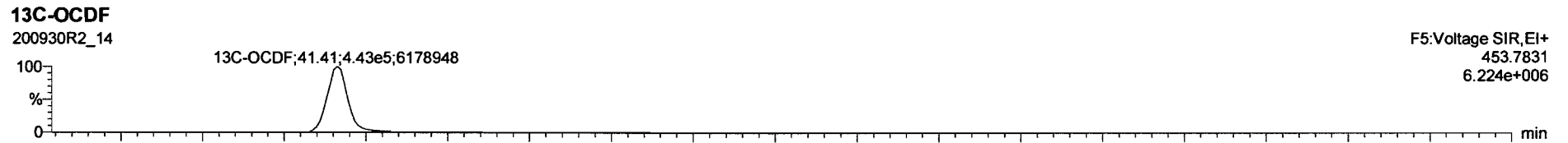
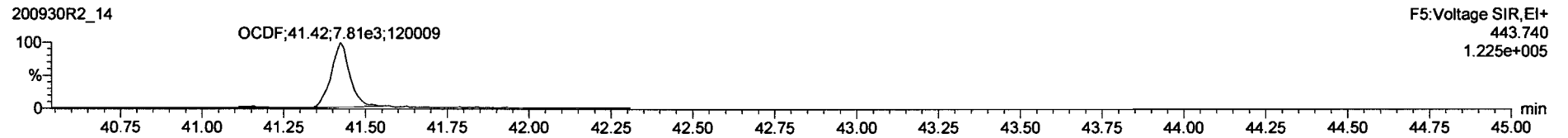
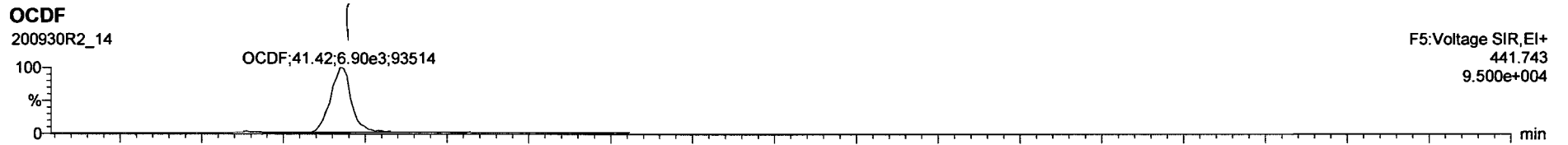


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Last Altered: Thursday, October 01, 2020 08:14:45 Pacific Daylight Time

Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

Name: 200930R2\_14, Date: 01-Oct-2020, Time: 07:26:57, ID: 2001995-15 PDI-174SC-A-01-02-200521 10, Description: PDI-174SC-A-01-02-200521



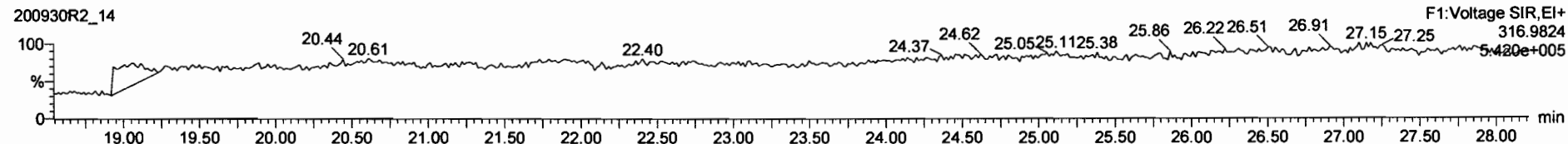
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Last Altered: Thursday, October 01, 2020 08:14:45 Pacific Daylight Time

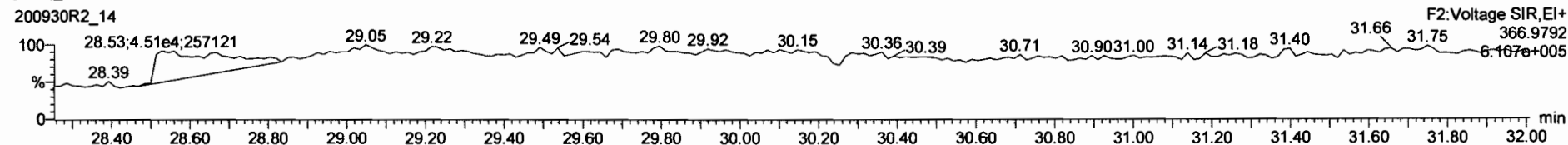
Printed: Thursday, October 01, 2020 08:21:11 Pacific Daylight Time

Name: 200930R2\_14, Date: 01-Oct-2020, Time: 07:26:57, ID: 2001995-15 PDI-174SC-A-01-02-200521 10, Description: PDI-174SC-A-01-02-200521

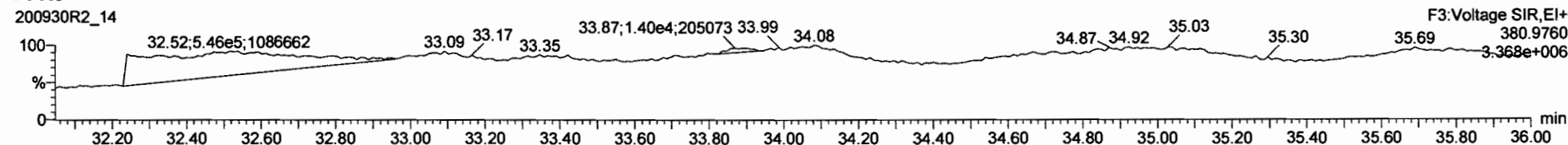
**PFK1**



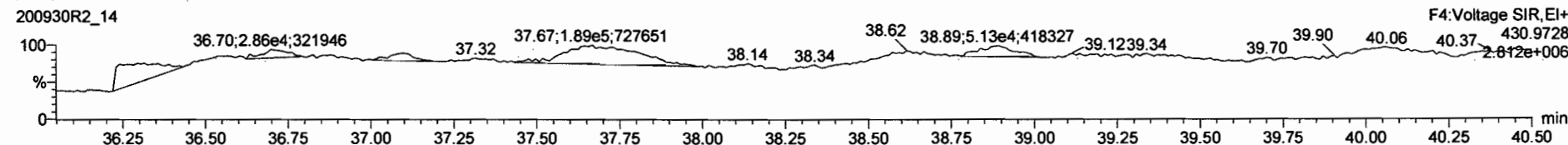
**PFK2**



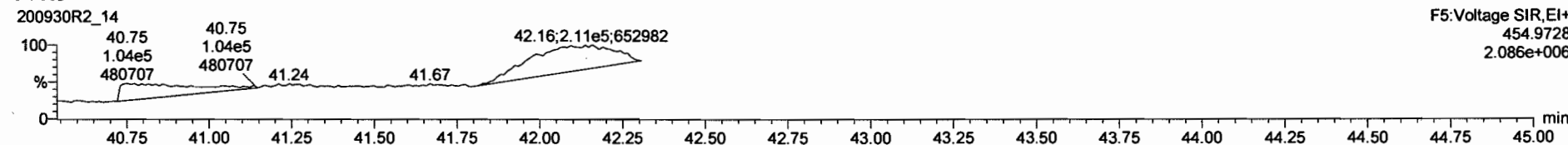
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200930R2\200930R2-15.qld

Last Altered: Friday, October 23, 2020 09:10:39 Pacific Daylight Time  
Printed: Friday, October 23, 2020 09:14:42 Pacific Daylight Time

*dy* 10-23-2020

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

*m*  
10/23/20

Name: 200930R2\_15, Date: 01-Oct-2020, Time: 08:10:36, ID: 2001995-16 PDI-174SC-A-02-03-200521 10, Description: PDI-174SC-A-02-03-200521

#	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	1.02	10.056	26.448		1.001				0.0289	
2	2 1,2,3,7,8-PeCDD			NO	0.956	10.056	31.070		1.001				0.0511	
3	3 1,2,3,4,7,8-HxCDD			NO	1.00	10.056	34.369		1.000				0.0676	
4	4 1,2,3,6,7,8-HxCDD	1.67e3	1.12	NO	0.888	10.056	34.476	34.48	1.000	1.000	0.41327		0.0693	0.413
5	5 1,2,3,7,8,9-HxCDD	7.63e2	1.07	NO	0.909	10.056	34.753	34.76	1.000	1.001	0.18962		0.0696	0.190
6	6 1,2,3,4,6,7,8-HpCDD	2.02e4	1.03	NO	0.832	10.056	38.201	38.20	1.000	1.000	6.6511		0.144	6.65
7	7 OCDD	1.39e5	0.88	NO	0.862	10.056	41.136	41.15	1.000	1.000	57.903		0.255	57.9
8	8 2,3,7,8-TCDF	7.61e2	0.88	NO	0.735	10.056	25.756	25.79	1.000	1.002	0.13040		0.0322	0.130
9	9 1,2,3,7,8-PeCDF	5.77e2	1.52	NO	0.939	10.056	29.818	29.83	1.001	1.001	0.081271		0.0303	0.0813
10	10 2,3,4,7,8-PeCDF	7.33e2	1.34	NO	1.05	10.056	30.880	30.86	1.001	1.001	0.093450		0.0251	0.0934
11	11 1,2,3,4,7,8-HxCDF	7.83e2	1.26	NO	0.842	10.056	33.443	33.45	1.000	1.000	0.18551		0.0459	0.186
12	12 1,2,3,6,7,8-HxCDF			NO	0.894	10.056	33.581		1.000				0.0445	
13	13 2,3,4,6,7,8-HxCDF			NO	0.870	10.056	34.263		1.001				0.0510	
14	14 1,2,3,7,8,9-HxCDF			NO	0.855	10.056	35.275		1.001				0.0614	
15	15 1,2,3,4,6,7,8-HpCDF	2.69e3	0.94	NO	0.891	10.056	36.874	36.84	1.001	1.000	0.84395		0.0615	0.844
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.00	10.056	38.807		1.000				0.0562	
17	17 OCDF	4.28e3	0.81	NO	0.784	10.056	41.424	41.43	1.000	1.000	1.9448		0.105	1.94
18	18 13C-2,3,7,8-TCDD	1.28e6	0.78	NO	1.15	10.056	26.405	26.42	1.029	1.029	191.58	96.3	0.142	
19	19 13C-1,2,3,7,8-PeCDD	1.12e6	0.62	NO	0.887	10.056	30.994	31.05	1.207	1.210	217.69	109	0.216	
20	20 13C-1,2,3,4,7,8-HxCDD	8.02e5	1.28	NO	0.801	10.056	34.361	34.36	1.014	1.014	199.48	100	0.432	
21	21 13C-1,2,3,6,7,8-HxCDD	9.04e5	1.26	NO	0.892	10.056	34.490	34.48	1.018	1.017	201.91	102	0.388	
22	22 13C-1,2,3,7,8,9-HxCDD	8.81e5	1.25	NO	0.882	10.056	34.751	34.74	1.025	1.025	198.83	100	0.392	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.25e5	1.04	NO	0.719	10.056	38.184	38.19	1.127	1.127	200.98	101	0.655	
24	24 13C-OCDD	1.11e6	0.89	NO	0.563	10.056	41.112	41.14	1.213	1.214	392.49	98.7	0.574	
25	25 13C-2,3,7,8-TCDF	1.58e6	0.77	NO	1.01	10.056	25.748	25.74	1.003	1.003	189.21	95.1	0.224	
26	26 13C-1,2,3,7,8-PeCDF	1.51e6	1.62	NO	0.814	10.056	29.754	29.80	1.159	1.161	223.69	112	0.493	
27	27 13C-2,3,4,7,8-PeCDF	1.49e6	1.55	NO	0.768	10.056	30.791	30.85	1.200	1.202	234.28	118	0.522	
28	28 13C-1,2,3,4,7,8-HxCDF	9.98e5	0.51	NO	0.993	10.056	33.439	33.44	0.987	0.987	200.24	101	0.469	
29	29 13C-1,2,3,6,7,8-HxCDF	9.92e5	0.51	NO	0.990	10.056	33.582	33.57	0.991	0.991	199.69	100	0.470	
30	30 13C-2,3,4,6,7,8-HxCDF	9.50e5	0.51	NO	0.944	10.056	34.249	34.24	1.011	1.010	200.52	101	0.493	

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-15.qld

Last Altered: Friday, October 23, 2020 09:10:39 Pacific Daylight Time

Printed: Friday, October 23, 2020 09:14:42 Pacific Daylight Time

Name: 200930R2\_15, Date: 01-Oct-2020, Time: 08:10:36, ID: 2001995-16 PDI-174SC-A-02-03-200521 10, Description: PDI-174SC-A-02-03-200521

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	8.56e5	0.50	NO	0.842	10.056	35.266	35.25	1.041	1.040	202.69	102	0.553	
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.11e5	0.43	NO	0.687	10.056	36.855	36.84	1.087	1.087	206.39	104	0.531	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.66e5	0.43	NO	0.555	10.056	38.804	38.81	1.145	1.145	203.51	102	0.657	
34	34 13C-OCDF	1.12e6	0.87	NO	0.608	10.056	41.393	41.42	1.221	1.222	365.47	91.9	0.687	
35	35 37Cl-2,3,7,8-TCDD	4.68e5			1.18	10.056	26.435	26.43	1.030	1.030	68.621	86.3	0.0386	
36	36 13C-1,2,3,4-TCDD	1.15e6	0.79	NO	1.00	10.056	25.740	25.67	1.000	1.000	198.88	100	0.164	
37	37 13C-1,2,3,4-TCDF	1.64e6	0.78	NO	1.00	10.056	24.310	24.20	1.000	1.000	198.88	100	0.226	
38	38 13C-1,2,3,4,6,9-HxCDF	9.98e5	0.51	NO	1.00	10.056	33.920	33.89	1.000	1.000	198.88	100	0.466	
39	39 Total Tetra-Dioxins				1.02	10.056	24.620		0.000				0.0149	
40	40 Total Penta-Dioxins				0.956	10.056	29.960		0.000		0.15840		0.0511	0.263
41	41 Total Hexa-Dioxins				0.888	10.056	33.635		0.000		3.5836		0.0721	3.58
42	42 Total Hepta-Dioxins				0.832	10.056	37.640		0.000		17.395		0.144	17.4
43	43 Total Tetra-Furans				0.735	10.056	23.610		0.000		0.23032		0.0322	0.230
44	44 1st Func. Penta-Furans				0.939	10.056	27.230		0.000		0.57431		0.0121	0.574
45	45 Total Penta-Furans				0.939	10.056	29.275		0.000		0.22942		0.0292	0.419
46	46 Total Hexa-Furans				0.870	10.056	33.555		0.000		1.6168		0.0500	1.62
47	47 Total Hepta-Furans				0.891	10.056	37.835		0.000		2.3867		0.0622	2.39

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Dataset: U:\VG12.PRO\Results\200930R2\200930R2-15.qld

Last Altered: Friday, October 23, 2020 09:10:39 Pacific Daylight Time

Printed: Friday, October 23, 2020 09:14:42 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R2\_15, Date: 01-Oct-2020, Time: 08:10:36, ID: 2001995-16 PDI-174SC-A-02-03-200521 10, Description: PDI-174SC-A-02-03-200521

**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	Total Penta-Dioxins	28.81	5.771e3	8.526e3	3.409e2	3.445e2	0.99	YES	0.000e0	0.00000	0.10459	0.0511
2	Total Penta-Dioxins	29.29	3.574e3	4.514e3	1.407e2	2.195e2	0.64	NO	3.602e2	0.067086	0.067086	0.0511
3	Total Penta-Dioxins	30.27	3.505e3	6.337e3	1.814e2	3.089e2	0.59	NO	4.903e2	0.091312	0.091312	0.0175

**Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	5.386e4	4.515e4	2.706e3	2.237e3	1.21	NO	4.944e3	1.2841	1.2841	0.0721
2	Total Hexa-Dioxins	33.33	7.308e3	5.467e3	2.881e2	2.721e2	1.06	NO	5.601e2	0.14548	0.14548	0.0721
3	Total Hexa-Dioxins	33.61	4.920e4	4.524e4	3.177e3	2.795e3	1.14	NO	5.972e3	1.5511	1.5511	0.0721
4	1,2,3,6,7,8-HxCDD	34.48	1.512e4	1.251e4	8.827e2	7.853e2	1.12	NO	1.668e3	0.41327	0.41327	0.0693
5	1,2,3,7,8,9-HxCDD	34.76	8.844e3	5.948e3	3.944e2	3.691e2	1.07	NO	7.635e2	0.18962	0.18962	0.0696

**Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.23	2.160e5	2.083e5	1.648e4	1.611e4	1.02	NO	3.259e4	10.744	10.744	0.144
2	1,2,3,4,6,7,8-HpCDD	38.20	1.702e5	1.655e5	1.025e4	9.927e3	1.03	NO	2.017e4	6.6511	6.6511	0.144

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	24.77	3.515e3	4.826e3	2.472e2	3.361e2	0.74	NO	5.833e2	0.099918	0.099918	0.0322
2	2,3,7,8-TCDF	25.79	5.056e3	5.992e3	3.559e2	4.054e2	0.88	NO	7.613e2	0.13040	0.13040	0.0322

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Dataset: U:\WG12.PRO\Results\200930R2\200930R2-15.qld

Last Altered: Friday, October 23, 2020 09:10:39 Pacific Daylight Time

Printed: Friday, October 23, 2020 09:14:42 Pacific Daylight Time

Name: 200930R2\_15, Date: 01-Oct-2020, Time: 08:10:36, ID: 2001995-16 PDI-174SC-A-02-03-200521 10, Description: PDI-174SC-A-02-03-200521

**Penta-Furans function 1**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.22	4.568e4	2.496e4	2.496e3	1.560e3	1.60	NO	4.056e3	0.57431	0.57431	0.0121

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.82	1.129e4	9.630e3	8.140e2	6.331e2	1.29	YES	0.000e0	0.00000	0.18964	0.0292
2	1,2,3,7,8-PeCDF	29.83	7.173e3	4.516e3	3.486e2	2.289e2	1.52	NO	5.775e2	0.081271	0.081271	0.0303
3	Total Penta-Furans	30.06	6.210e3	3.269e3	2.228e2	1.635e2	1.36	NO	3.863e2	0.054699	0.054699	0.0292
4	2,3,4,7,8-PeCDF	30.86	8.227e3	6.335e3	4.206e2	3.128e2	1.34	NO	7.334e2	0.093450	0.093450	0.0251

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.19	8.432e3	7.359e3	4.490e2	3.750e2	1.20	NO	8.239e2	0.19846	0.19846	0.0500
2	Total Hexa-Furans	32.36	2.776e4	2.328e4	1.285e3	1.114e3	1.15	NO	2.400e3	0.57801	0.57801	0.0500
3	Total Hexa-Furans	32.99	3.302e4	2.496e4	1.415e3	1.304e3	1.08	NO	2.719e3	0.65486	0.65486	0.0500
4	1,2,3,4,7,8-HxCDF	33.45	1.022e4	8.021e3	4.363e2	3.471e2	1.26	NO	7.835e2	0.18551	0.18551	0.0459

**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	36.84	1.794e4	2.120e4	1.306e3	1.383e3	0.94	NO	2.689e3	0.84395	0.84395	0.0615
2	Total Hepta-Furans	37.56	3.521e4	3.476e4	2.255e3	2.160e3	1.04	NO	4.415e3	1.5428	1.5428	0.0622



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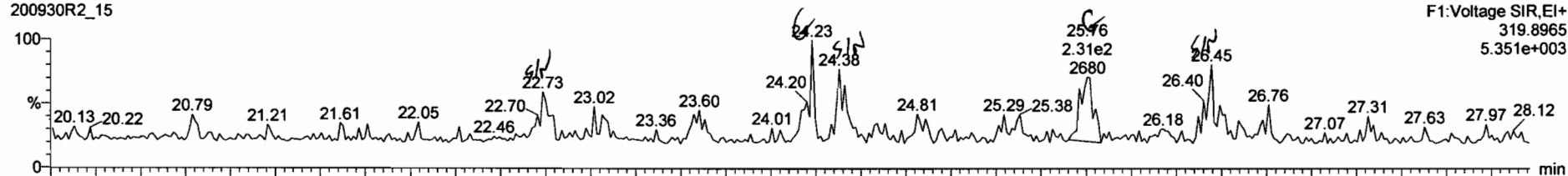
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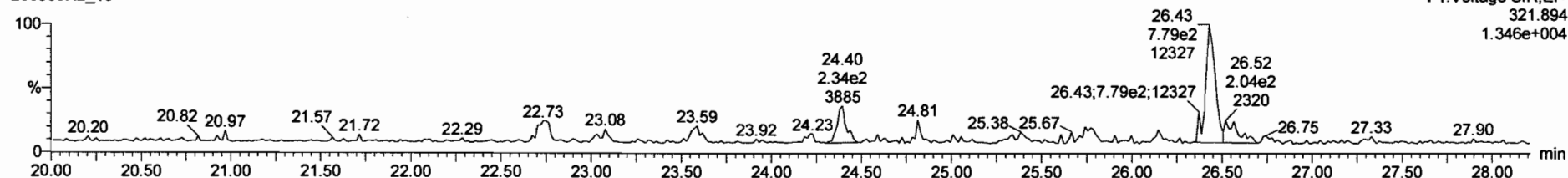
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**2,3,7,8-TCDD**

200930R2\_15

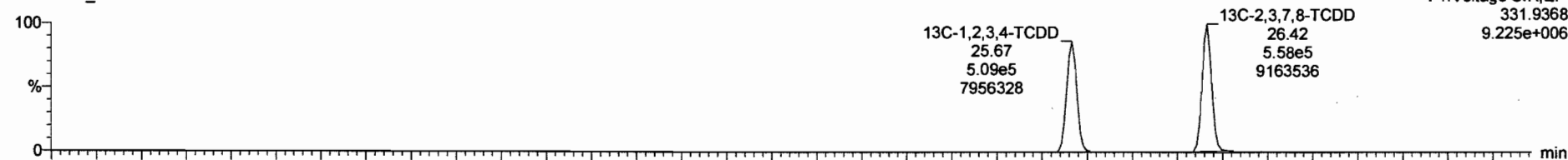


200930R2\_15

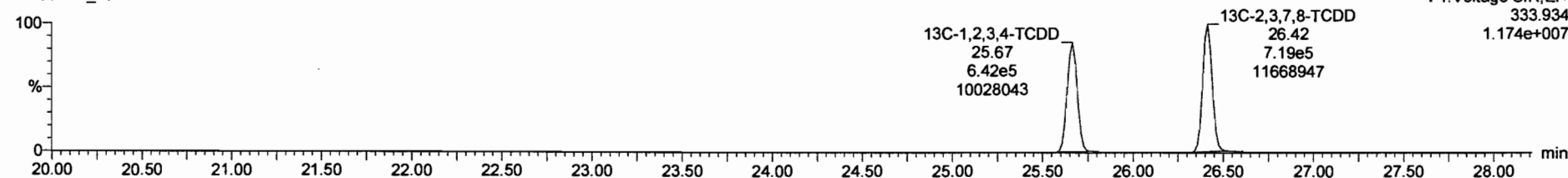


**13C-2,3,7,8-TCDD**

200930R2\_15



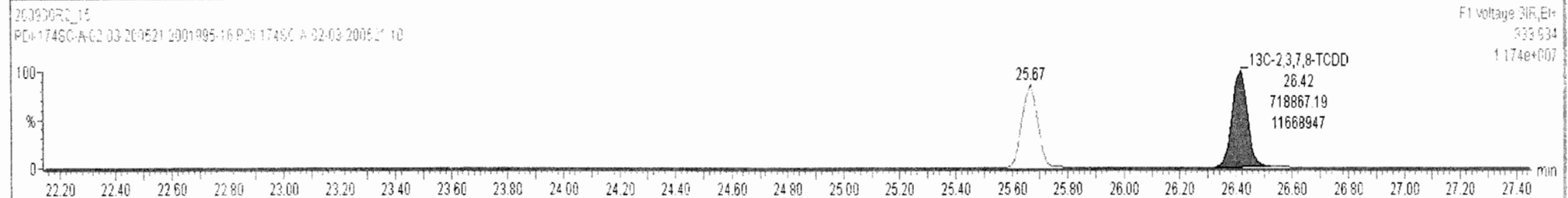
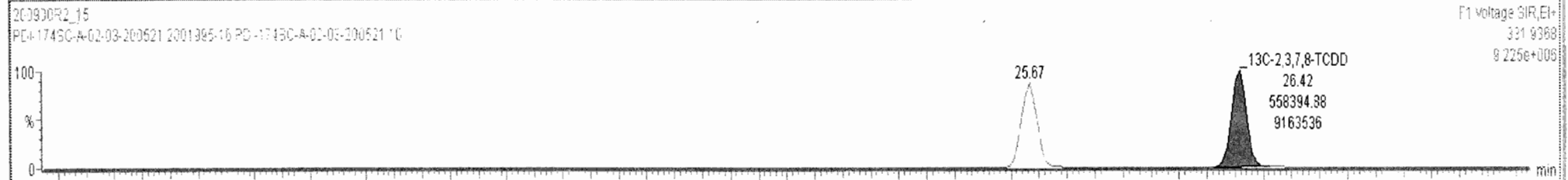
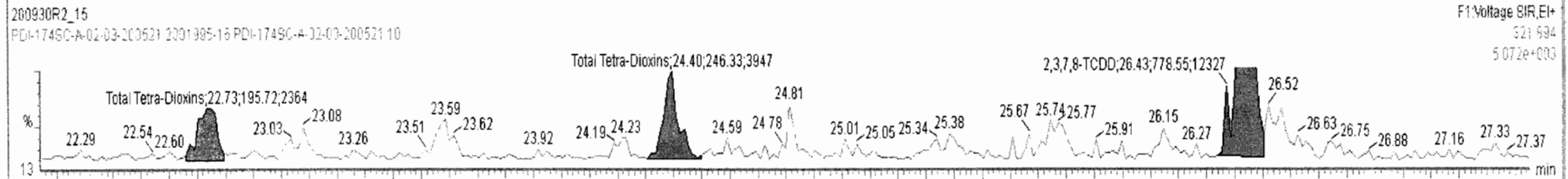
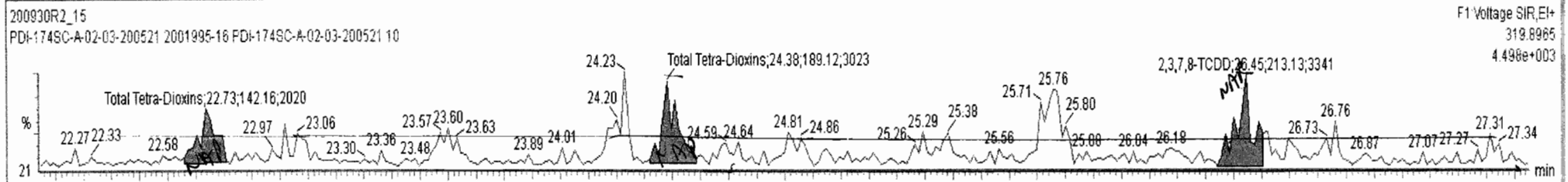
200930R2\_15



200930R2\_15 - 2001995-16 PDI-1745C-A-02-03-200521 10 - PDI-1745C-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.0160	10.056			0.119		0.0269	0.194
40 Total Penta-Dioxins				0.9561	10.056			0.000		0.0175	0.232
41 Total Hexa-Dioxins				0.8879	10.056			3.60		0.0721	3.74

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.73	1.422e2	1.957e2	0.73	NO	0.051782	0.051782
2 Total Tetra-Dioxins	24.38	1.891e2	2.463e2	0.77	NO	0.066736	0.066736
3 2,3,7,8-TCDD	26.45	2.131e2	7.785e2	0.27	YES	0.075083	0.00000



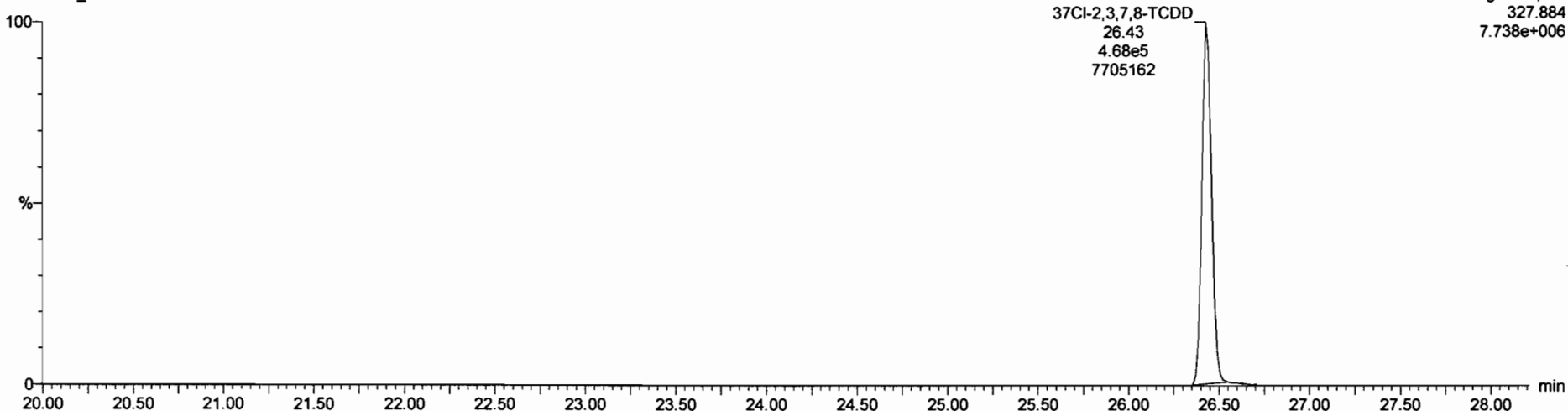
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**37Cl-2,3,7,8-TCDD**

200930R2\_15

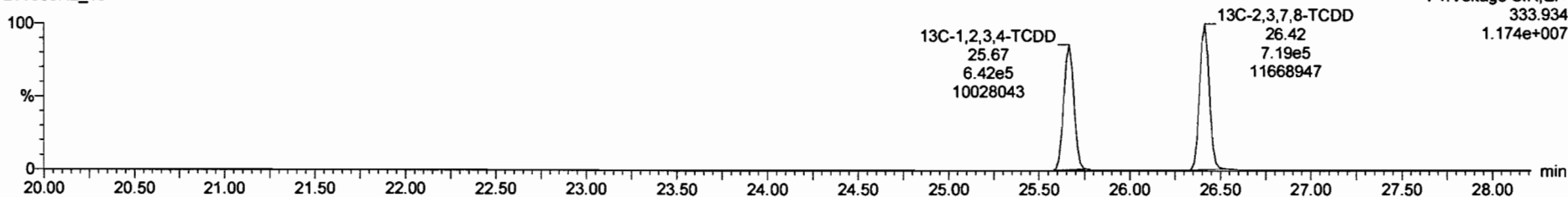


**13C-1,2,3,4-TCDD**

200930R2\_15



200930R2\_15



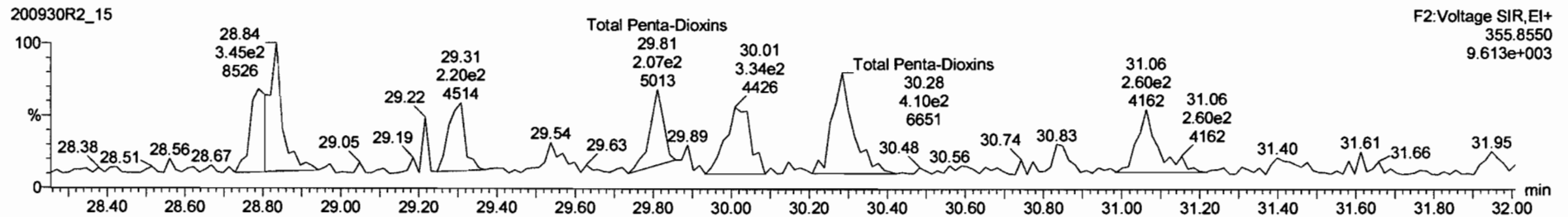
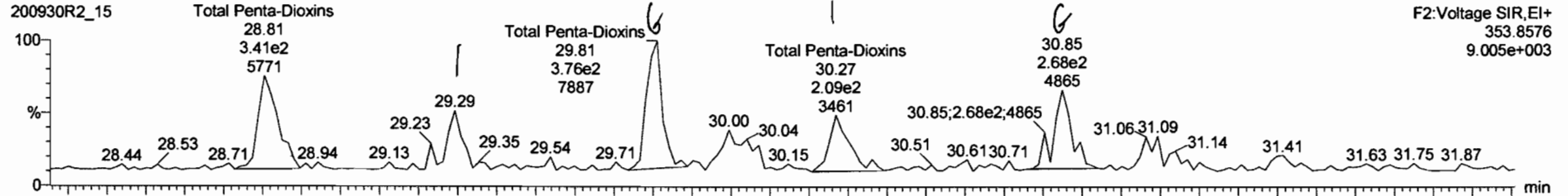
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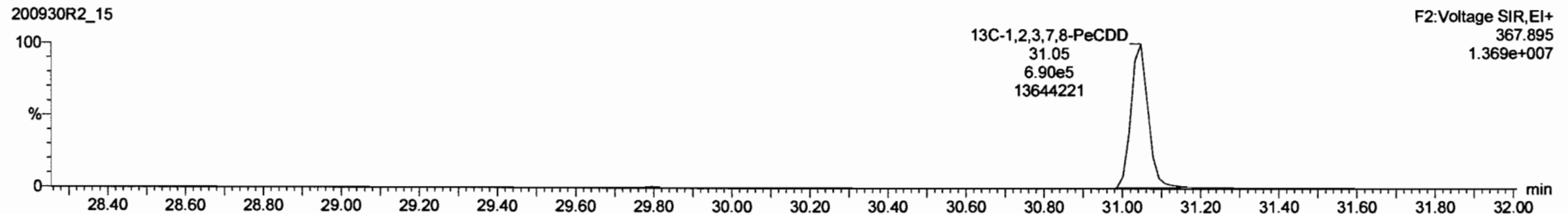
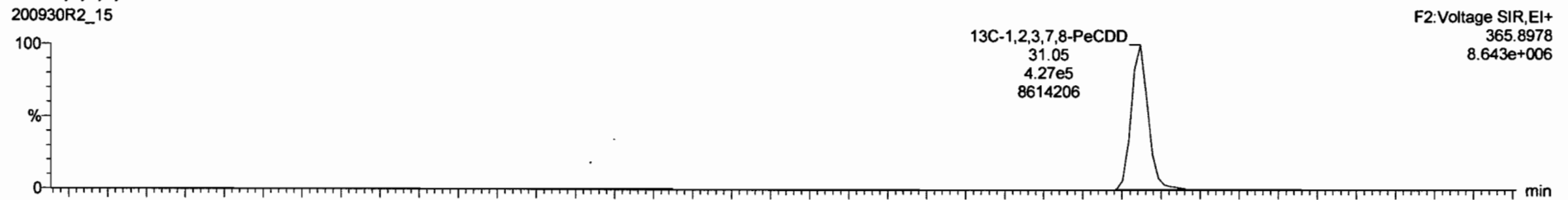
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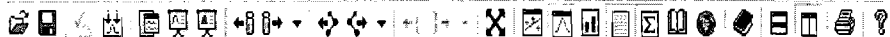
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**1,2,3,7,8-PeCDD**



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

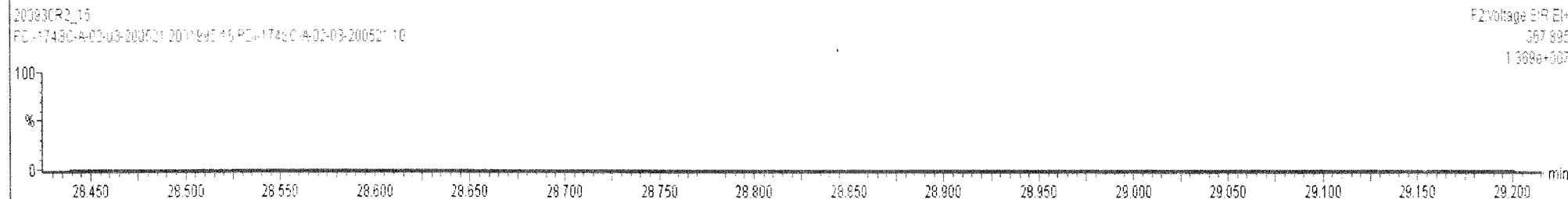
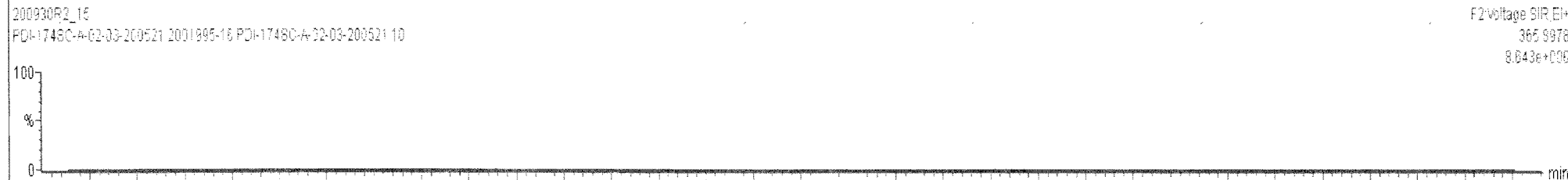
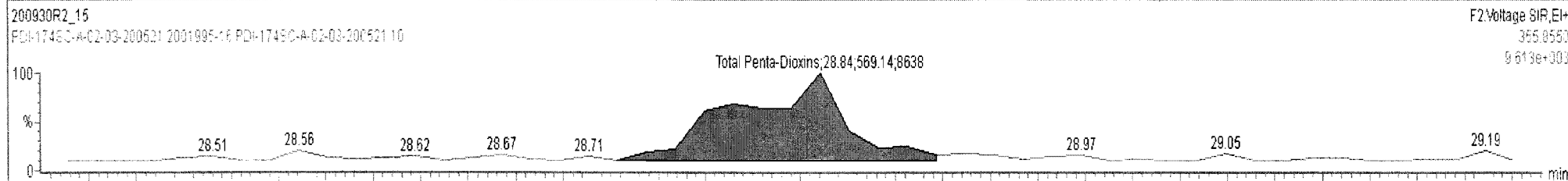
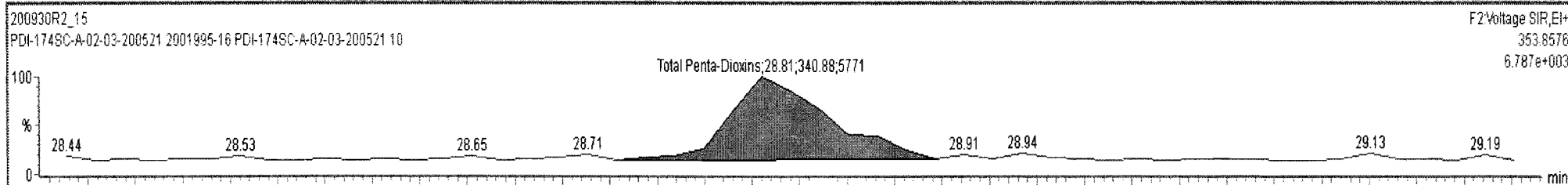




200930R2\_15 - 2001995-16 PDI-174SC-A-02-03-200521 10 - FDI-174SC-A-02-03-200521

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	9.98e5	0.51	NO	1.0000	10.056	33.89	1.000	199	100	0.466	
39 Total Tetra-Dioxins				1.0160	10.056					0.0149	
40 Total Penta-Dioxins				0.9561	10.056			0.0815		0.0175	0.314

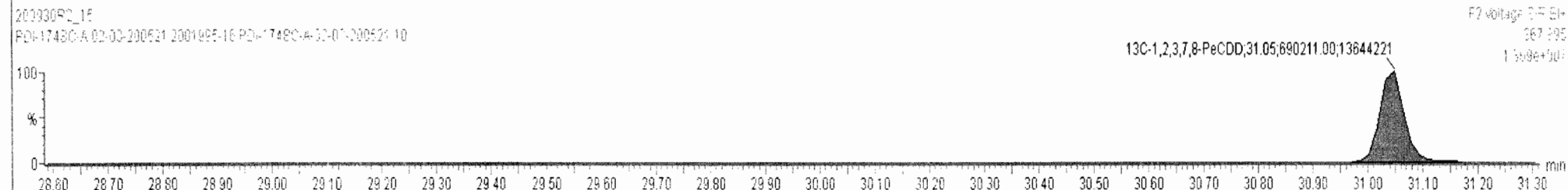
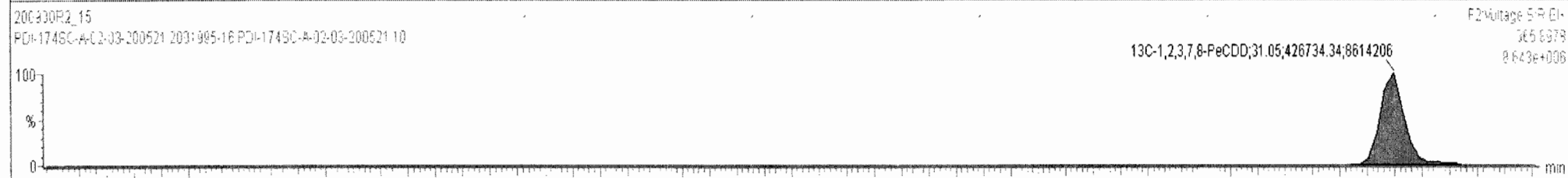
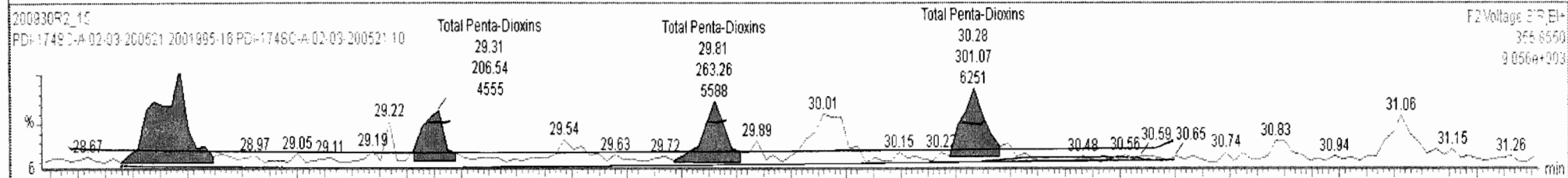
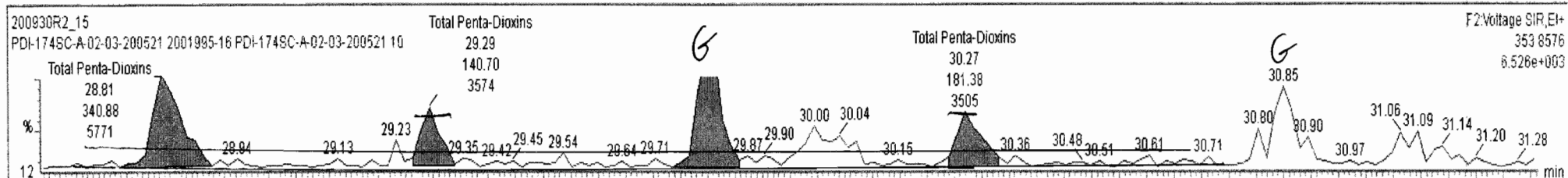
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Dioxins	28.81	3.409e2	5.691e2	0.60	NO	0.16947	0.00000
2 Total Penta-Dioxins	29.81	3.548e2	2.067e2	1.72	YES	0.062755	0.00000
3 Total Penta-Dioxins	30.27	1.802e2	2.576e2	0.70	NO	0.081531	0.081531



200930R2\_15 - 2001995-16 PDI-1745C-A-02-03-200521 10 - PDI-1745C-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	9.98e5	0.51	NO	1.0000	10.056	33.89	1.000	199	100	0.466
39	Total Tetra-Dioxins				1.0160	10.056					0.0149
40	Total Penta-Dioxins				0.9561	10.056			0.455		0.0175

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	28.81	3.409e2	5.681e2	0.60	NO	0.16947
2	Total Penta-Dioxins	29.29	1.407e2	2.065e2	0.68	NO	0.064665
3	Total Penta-Dioxins	29.81	3.802e2	2.633e2	1.44	YES	0.079914
4	Total Penta-Dioxins	30.27	1.814e2	3.011e2	0.60	NO	0.089845



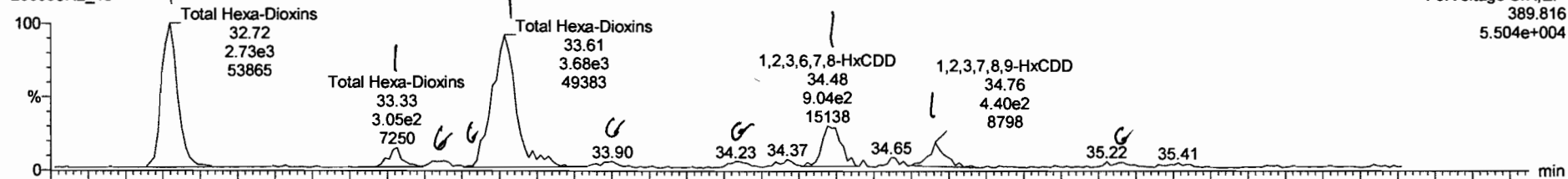
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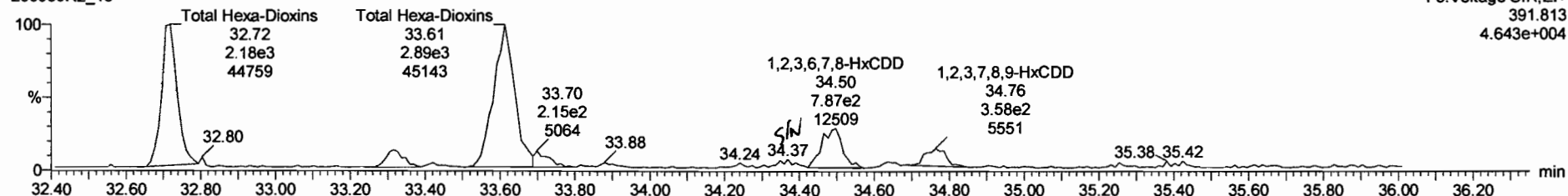
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1,2,3,4,7,8-HxCDD

200930R2\_15

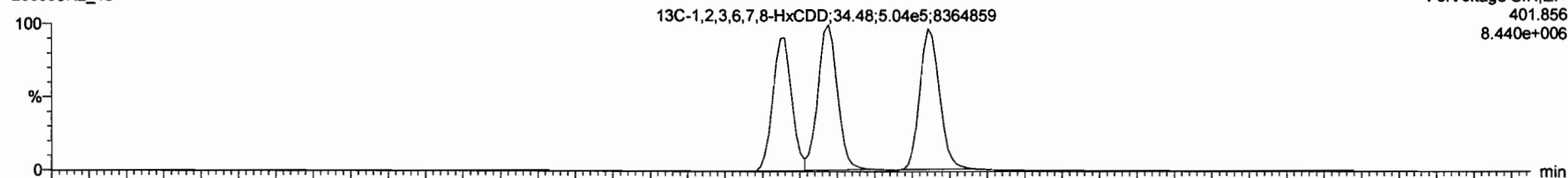


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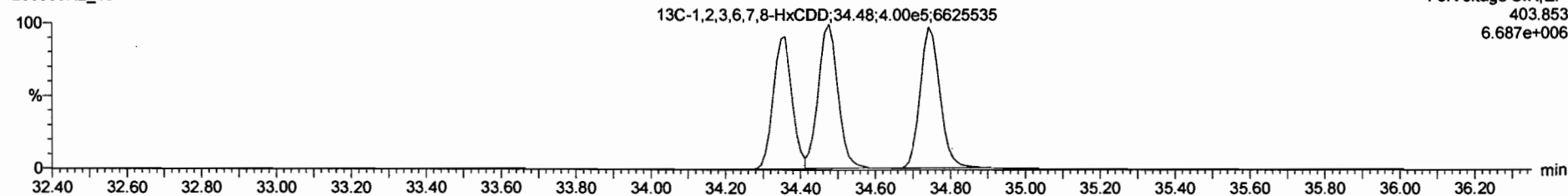


13C-1,2,3,4,7,8-HxCDD

200930R2\_15



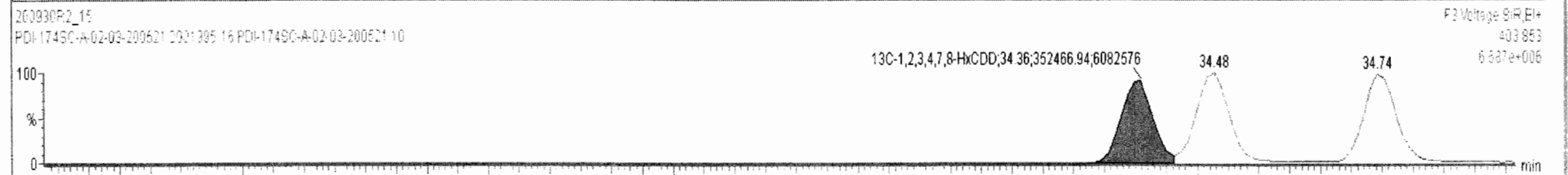
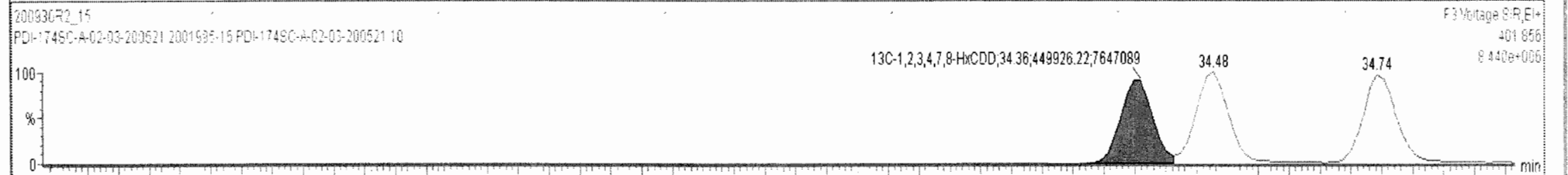
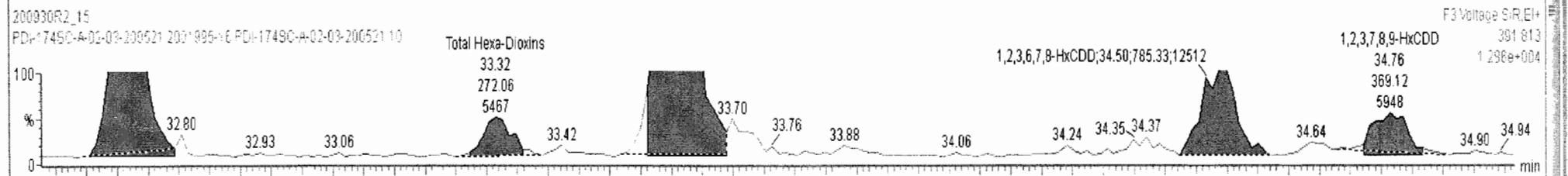
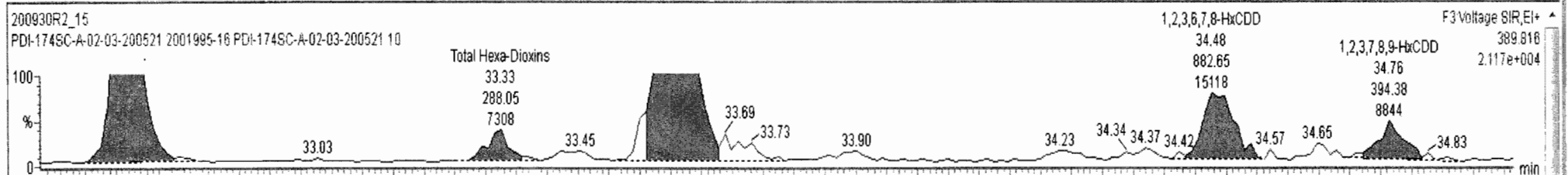
200930R2\_15



200930R2\_15 - 2001995-16 PDI-1745C-A-02-03-200521 10 - PDI-1745C-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9561	10.056			0.156		0.0175	0.325
41 Total Hexa-Dioxins				0.8879	10.056			3.58		0.0721	3.58
42 Total Hepta-Dioxins				0.8316	10.056			17.4		0.144	17.4

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.72	2.706e3	2.237e3	1.21	NO	1.2841	1.2841
2 Total Hexa-Dioxins	33.33	2.881e2	2.721e2	1.06	NO	0.14548	0.14548
3 Total Hexa-Dioxins	33.61	3.177e3	2.795e3	1.14	NO	1.5511	1.5511
4 1,2,3,6,7,8-HxCDD	34.48	8.827e2	7.853e2	1.12	NO	0.41327	0.41327





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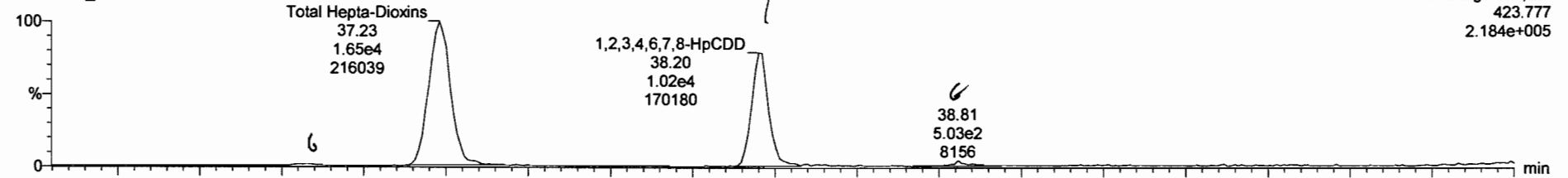
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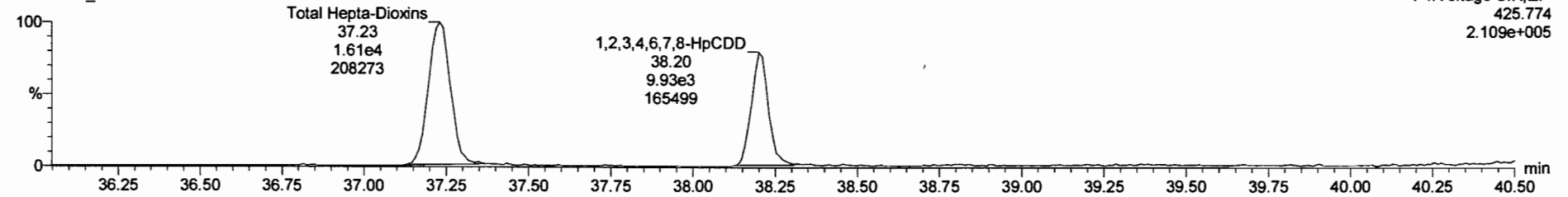
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**1,2,3,4,6,7,8-HpCDD**

200930R2\_15

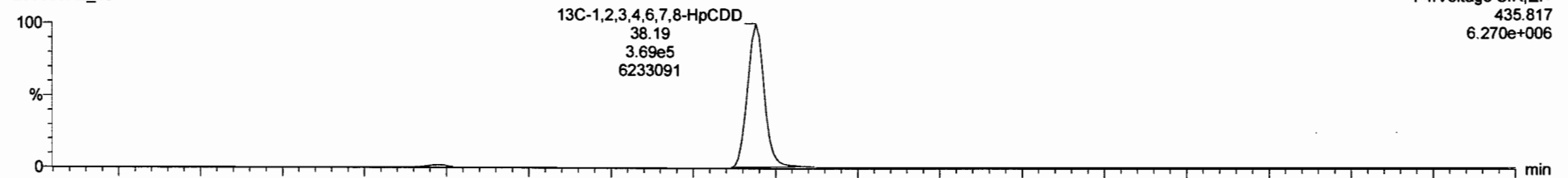


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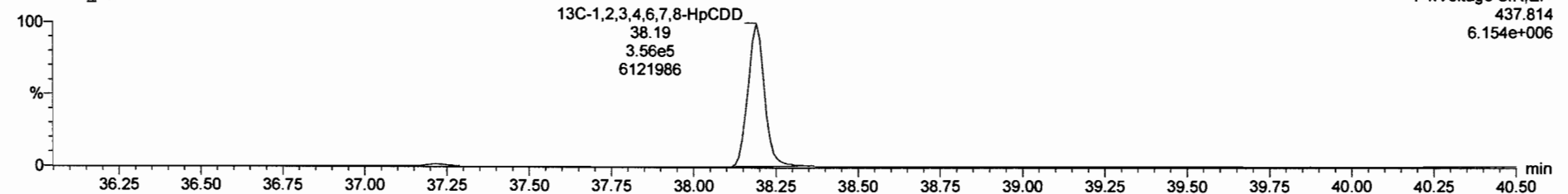


**13C-1,2,3,4,6,7,8-HpCDD**

200930R2\_15



200930R2\_15

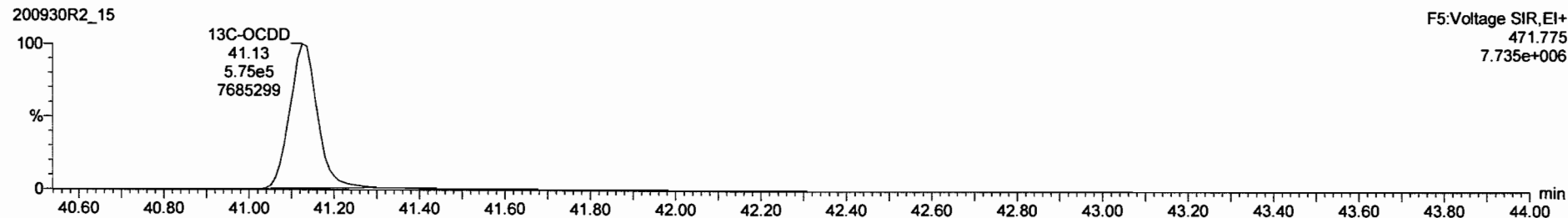
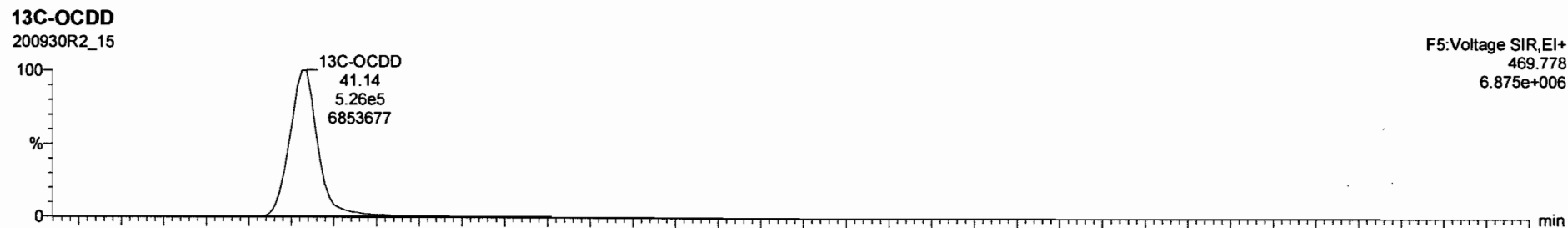
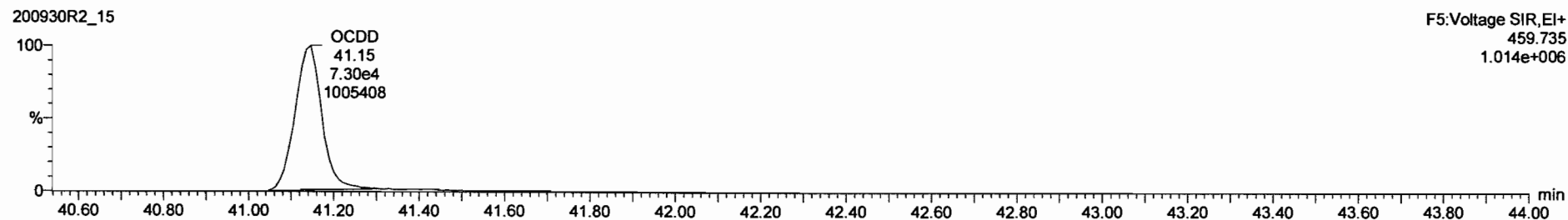
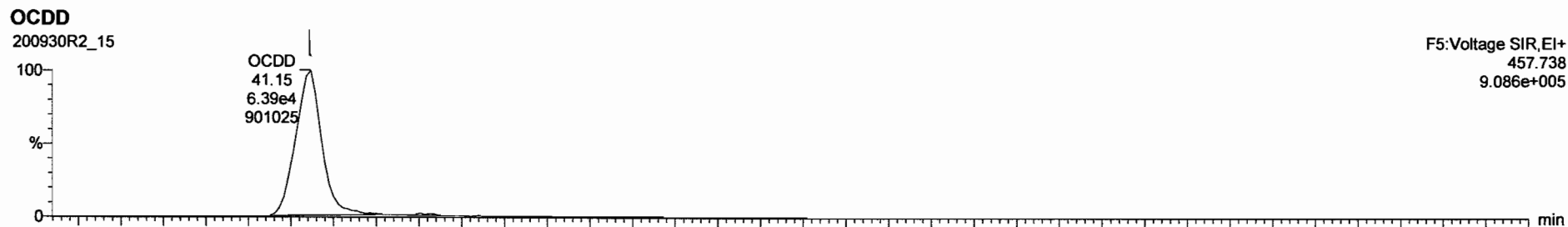


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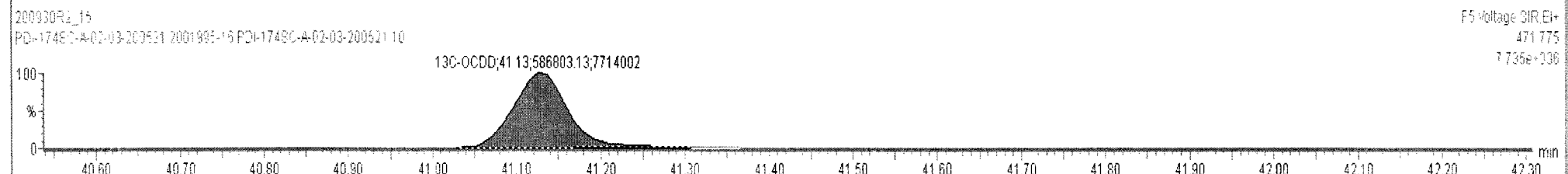
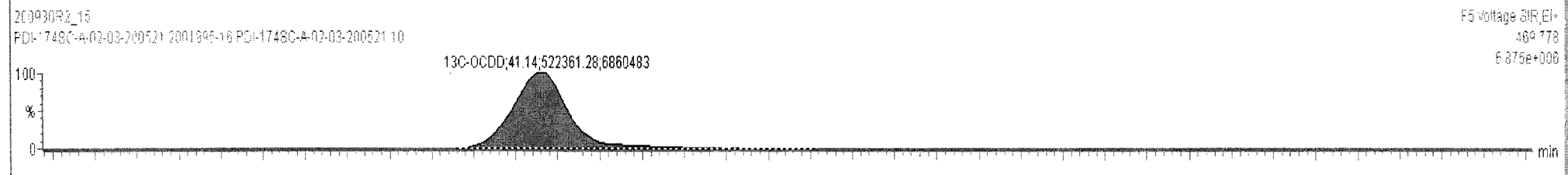
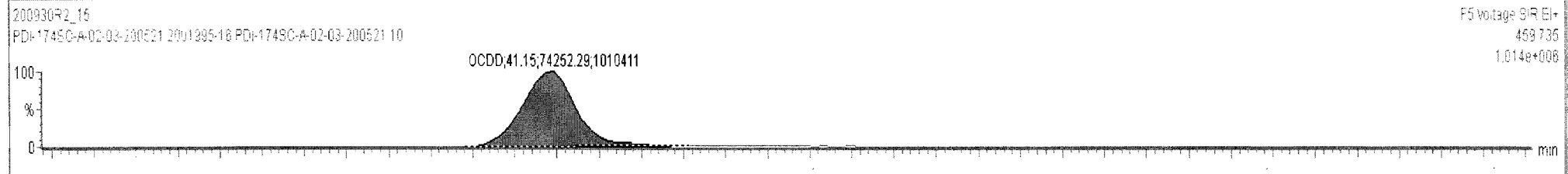
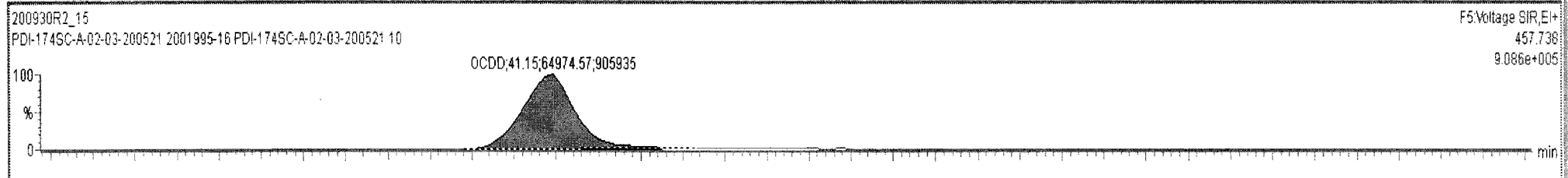
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200930R2\_15 - 2001995-16 PDI-174SC-A-02-03-200521 10 - PDI-174SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	1.39e5	0.88	NO	0.8623	10.056	41.15	1.000	57.9		0.255	57.9
8 2,3,7,8-TCDF	7.15e2	0.80	NO	0.7353	10.056	25.79	1.002	0.123		0.0322	0.123
9 1,2,3,7,8-PeCDF	5.24e2	1.30	YES	0.9386	10.056	29.83	1.001	0.0737		0.0303	0.0686

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

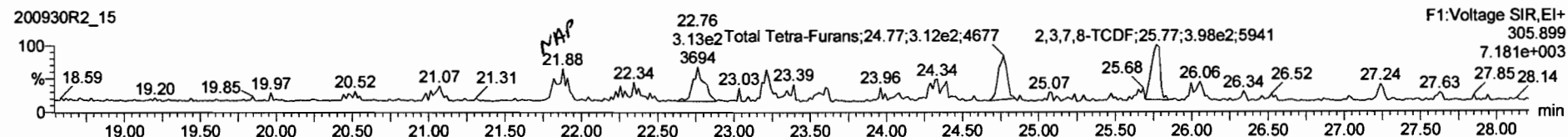
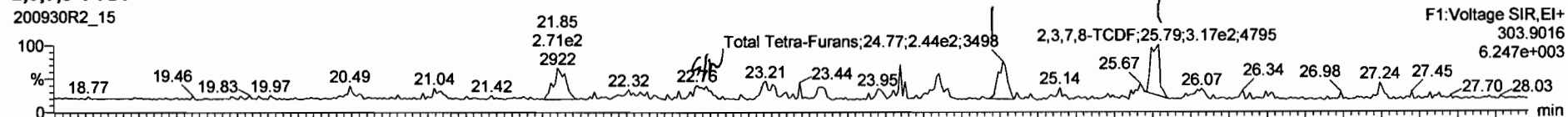


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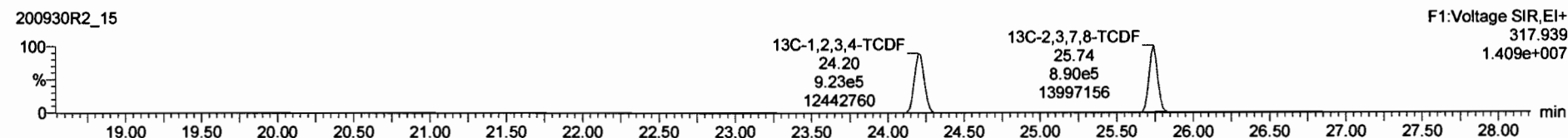
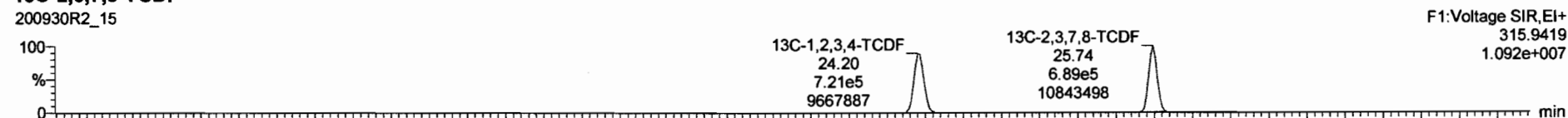
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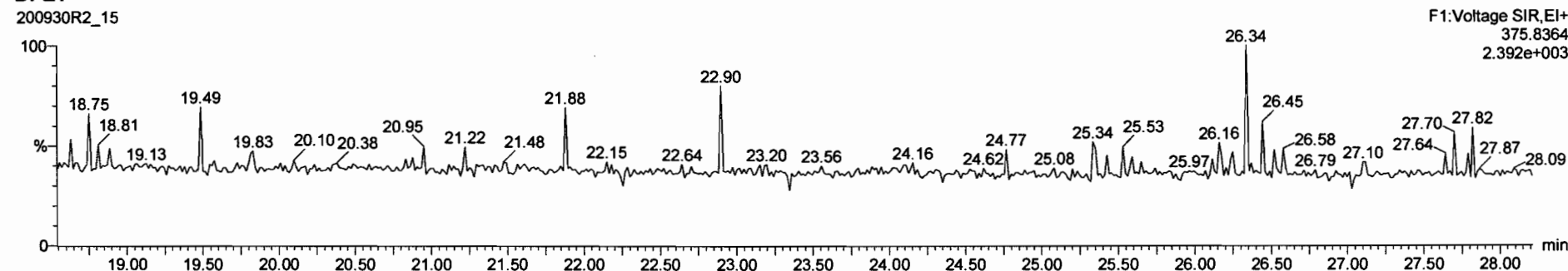
### 2,3,7,8-TCDF



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



### DPE1

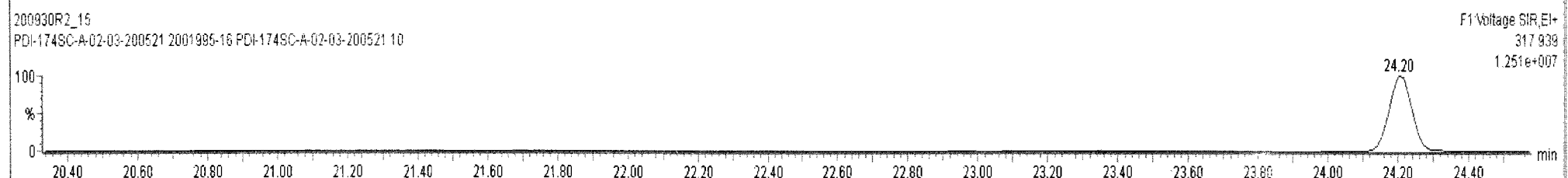
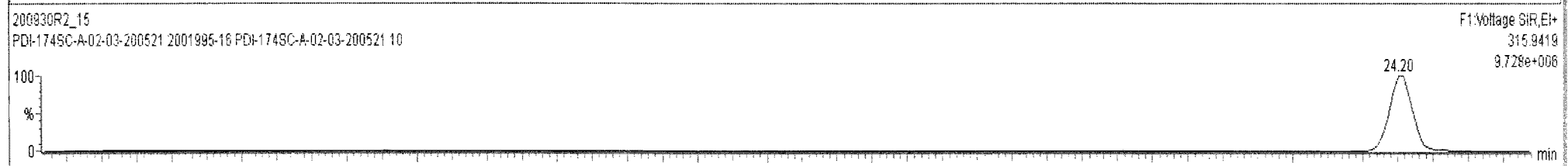
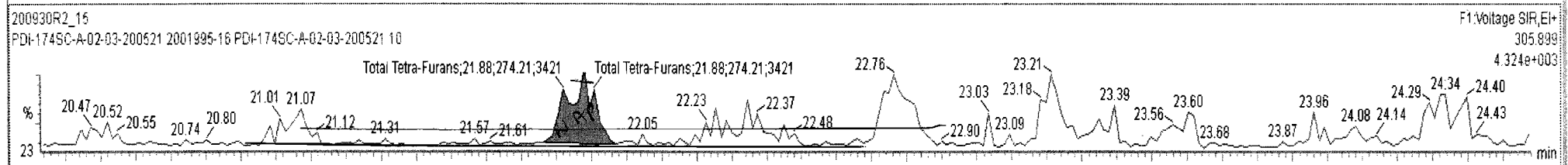
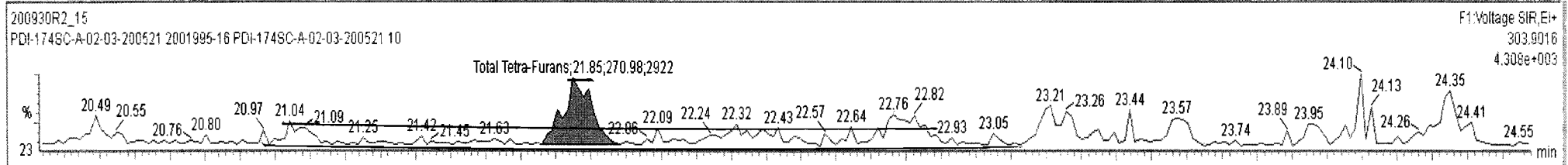




200930R2\_15 - 2001995-16 PDI-174SC-A-02-03-200521 10 - PDI-174SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans			0.7353	10.056			0.218		0.0322	0.301
44	1st Func. Penta-Furans			0.9386	10.056			0.574		0.0121	0.574
45	Total Penta-Furans			0.9386	10.056			0.000		0.0109	0.356

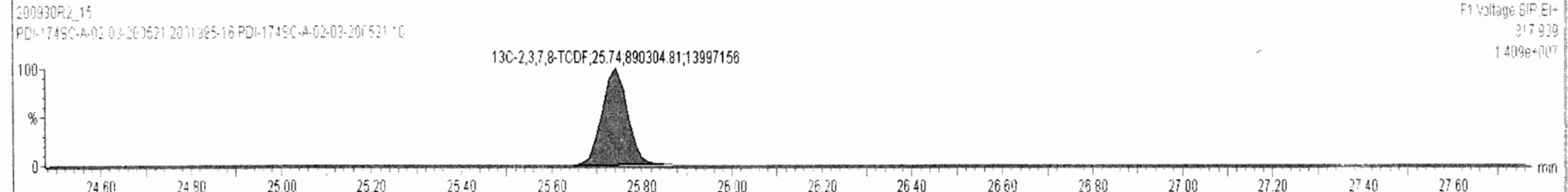
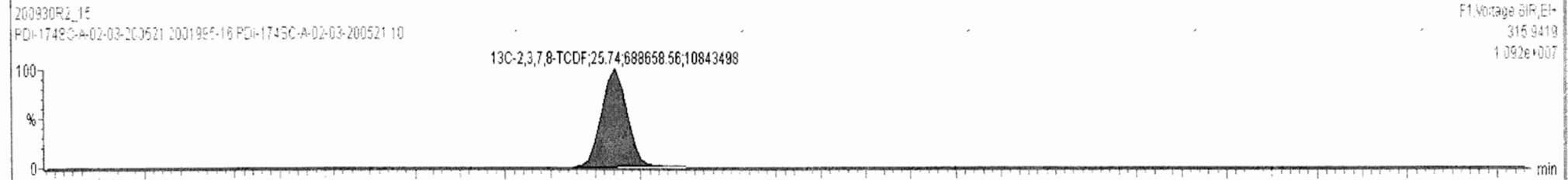
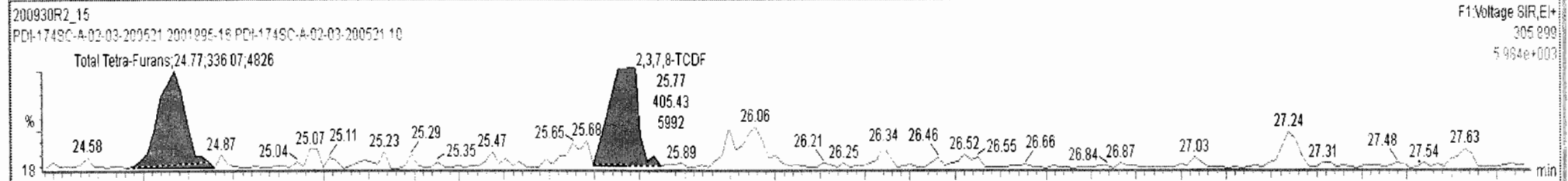
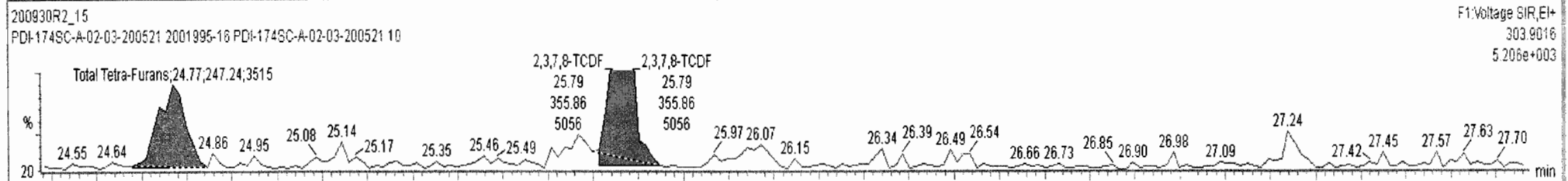
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Tetra-Furans	21.85	2.710e2	2.742e2	0.99	YES	0.083138	0.00000
2	Total Tetra-Furans	24.77	2.442e2	3.116e2	0.78	NO	0.095193	0.095193
3	2,3,7,8-TCDF	25.79	3.174e2	3.978e2	0.80	NO	0.12251	0.12251



200930R2\_15 - 2001995-16 PDI-1745C-A-02-03-200521 10 - PDI-1745C-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7353	10.056			0.230		0.0322	0.313
44 1st Func. Penta-Furans				0.9386	10.056			0.574		0.0121	0.574
45 Total Penta-Furans				0.9386	10.056			0.000		0.0109	0.356

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.85	2.710e2	2.742e2	0.99	YES	0.063138	0.00000
2 Total Tetra-Furans	24.77	2.472e2	3.361e2	0.74	NO	0.099918	0.099918
3 2,3,7,8-TCDF	25.79	3.559e2	4.054e2	0.88	NO	0.13040	0.13040



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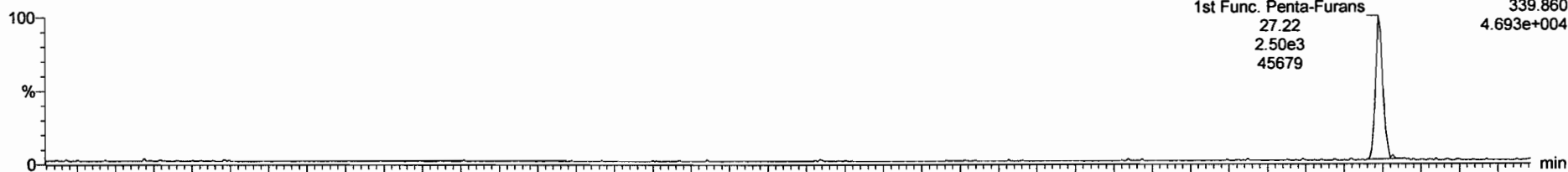
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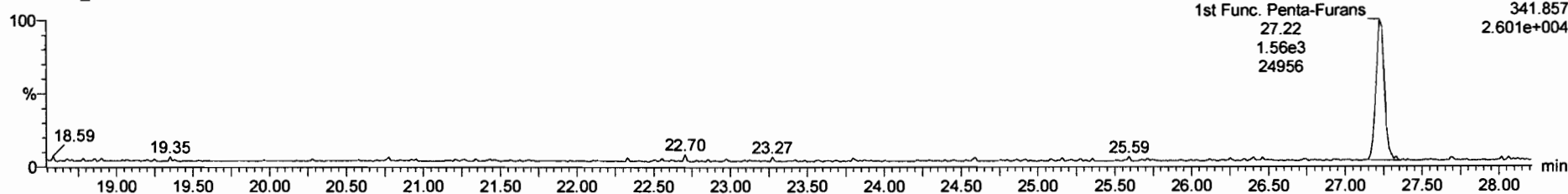
Name: 200930R2\_15, Date: 01-Oct-2020, Time: 08:10:36, ID: 2001995-16 PDI-174SC-A-02-03-200521 10, Description: PDI-174SC-A-02-03-200521

1st Func. Penta-Furans

200930R2\_15

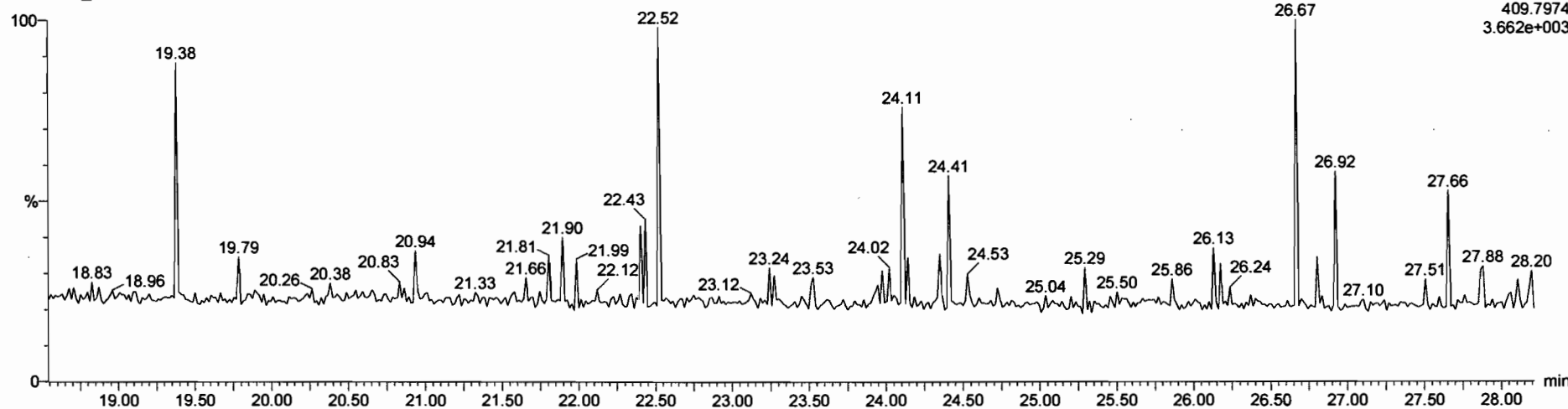


200930R2\_15



DPE6

200930R2\_15

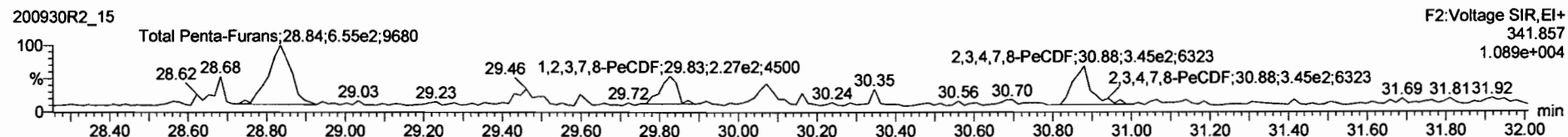
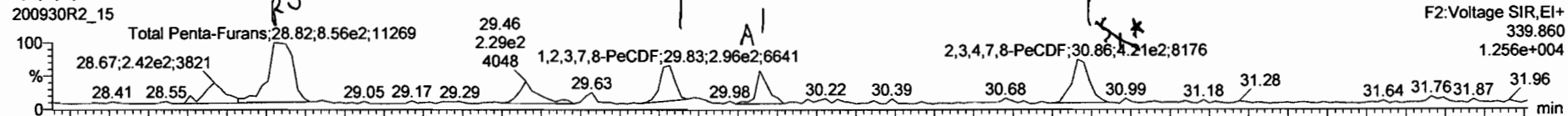


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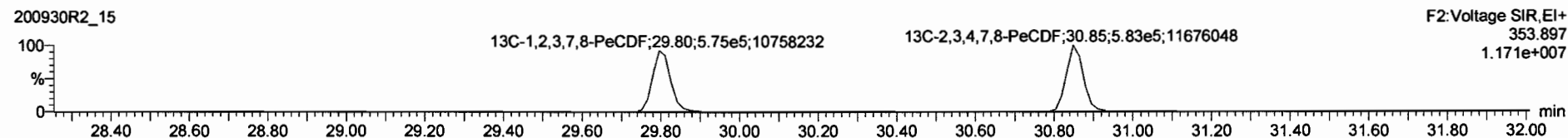
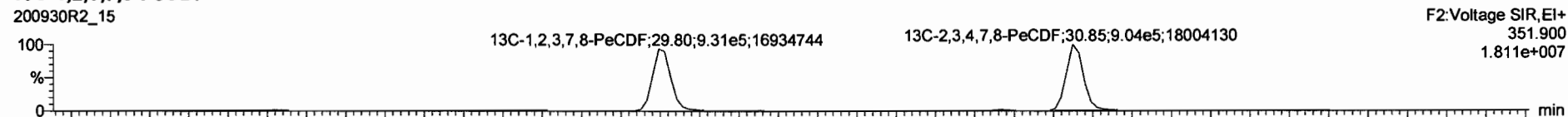
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Name: 200930R2\_15, Date: 01-Oct-2020, Time: 08:10:36, ID: 2001995-16 PDI-174SC-A-02-03-200521 10, Description: PDI-174SC-A-02-03-200521

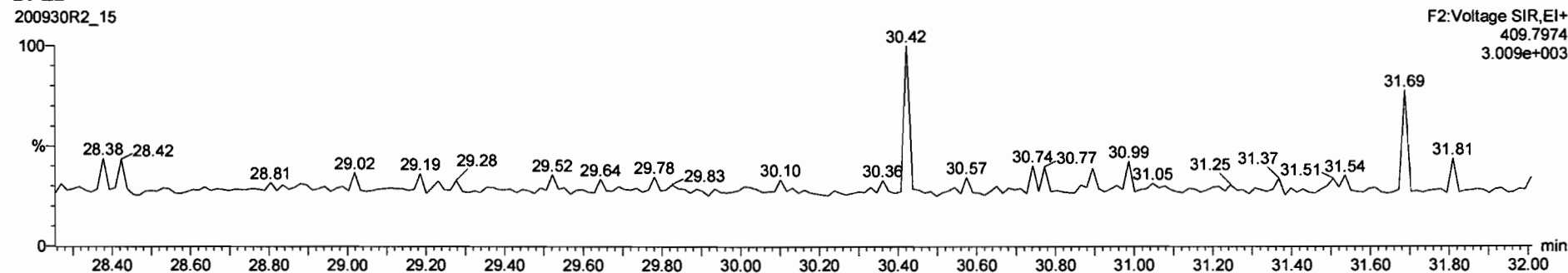
*10-23-2020*  
**1,2,3,7,8-PeCDF**



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



**DPE2**

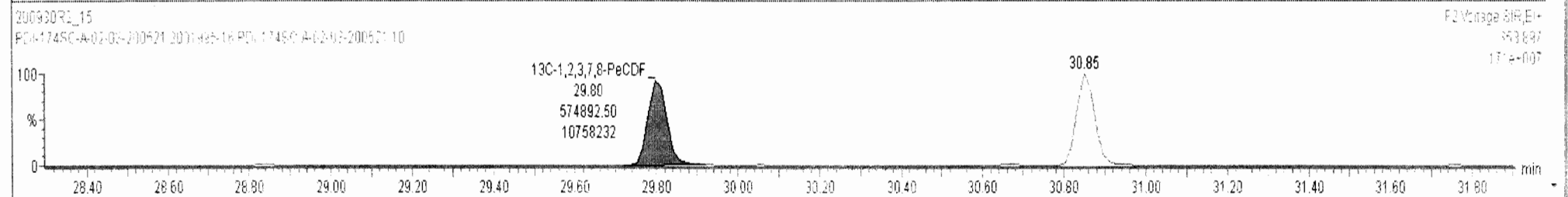
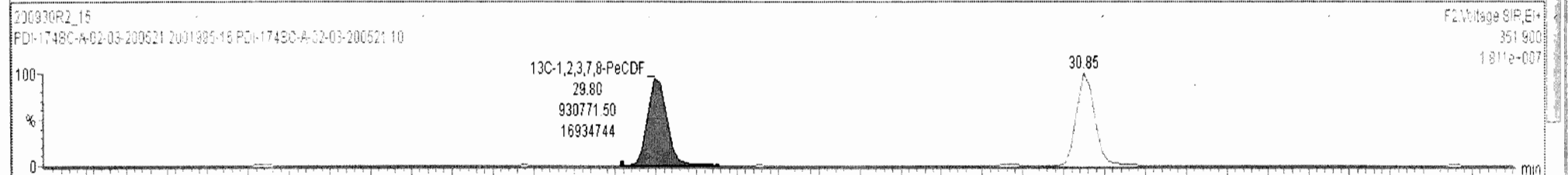
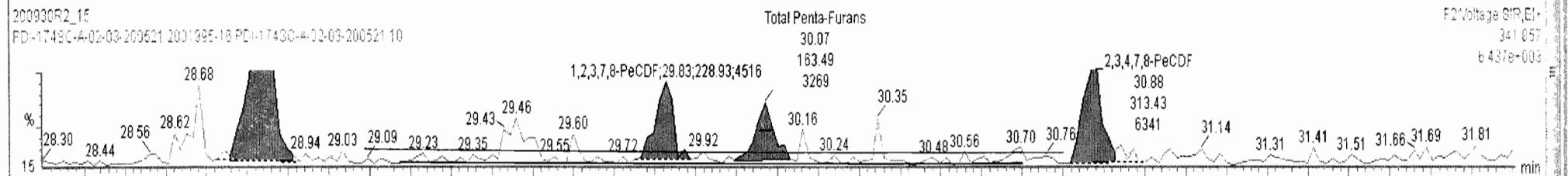
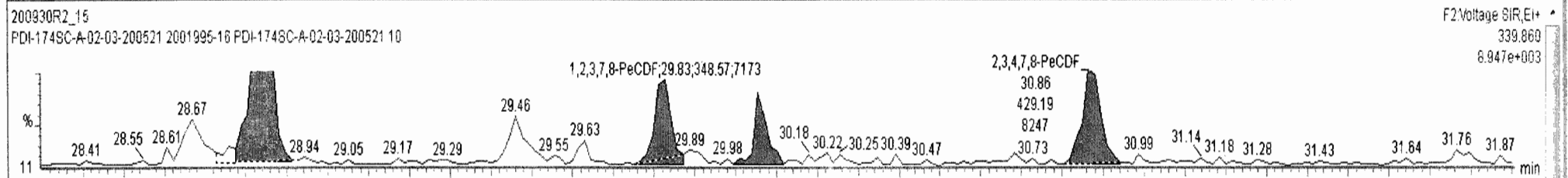


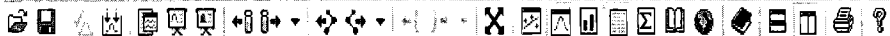


200930R2\_15 - 2001995-16 PDI-174SC-A-02-03-200521 10 - PDI-174SC-A-02-03-200521

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans			0.9386	10.056			0.574		0.0121	0.574
45	Total Penta-Furans			0.9386	10.056			0.231		0.0292	0.420
46	Total Hexa-Furans			0.8699	10.056			1.65		0.0500	1.65

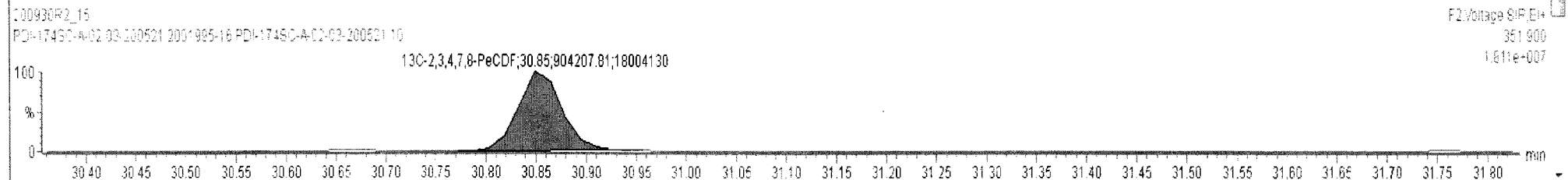
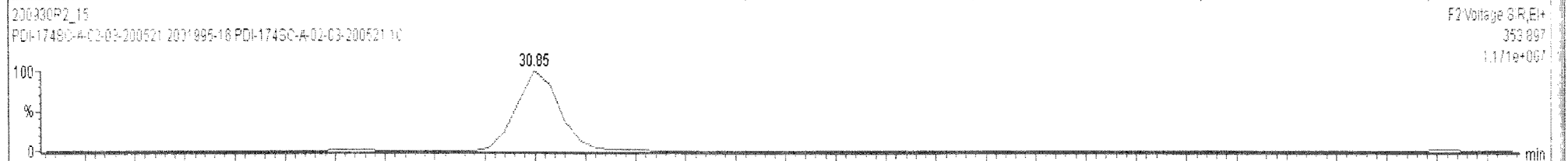
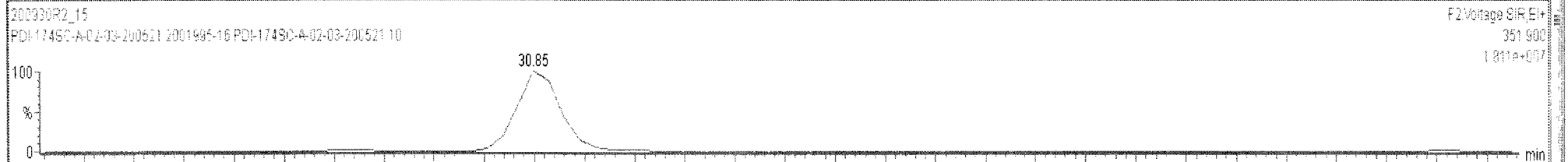
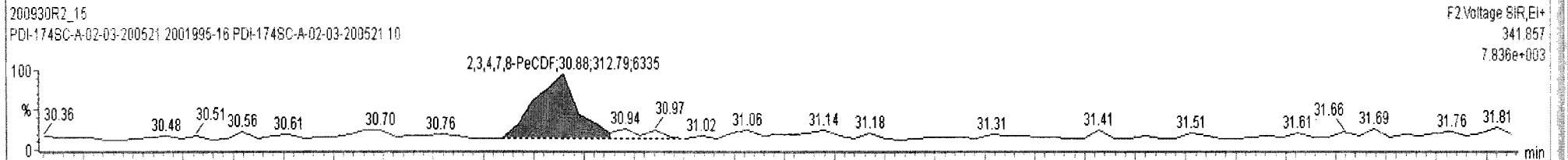
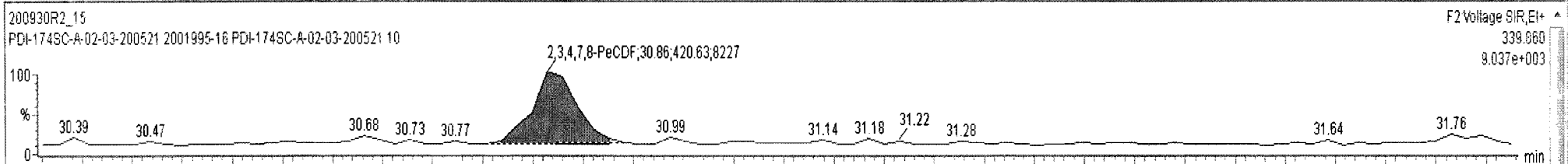
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc	
1	Total Penta-Furans	28.62	8.140e2	6.331e2	1.29	YES	0.18964	0.00000
2	1,2,3,7,8-PeCDF	29.83	3.486e2	2.289e2	1.52	NO	0.081271	0.081271
3	Total Penta-Furans	30.06	2.228e2	1.635e2	1.36	NO	0.054699	0.054699
4	2,3,4,7,8-PeCDF	30.86	4.292e2	3.134e2	1.37	NO	0.094622	0.094622





200930R2\_15 - 2001995-16 PDI-174SC-A-02-03-200521 10 - PDI-174SC-A-02-03-200521

Name	Resp	RA	n/y	RFI	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD		NO	1.0160	10.056					0.0289	
2	1,2,3,7,8-PeCDD		NO	0.9561	10.056					0.0511	
3	1,2,3,4,7,8-HxCDD		NO	1.0017	10.056					0.0676	

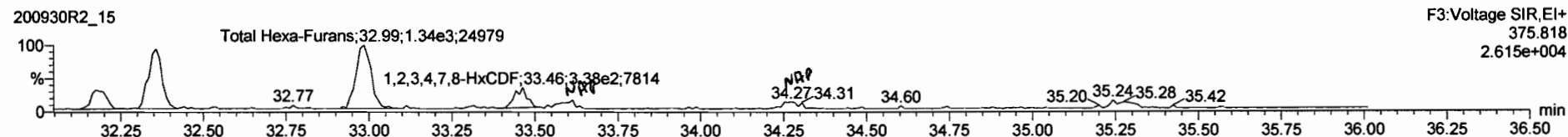
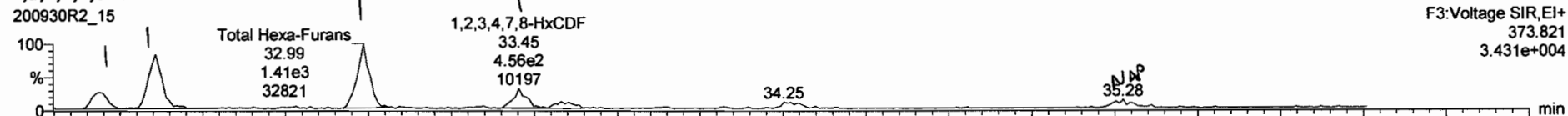


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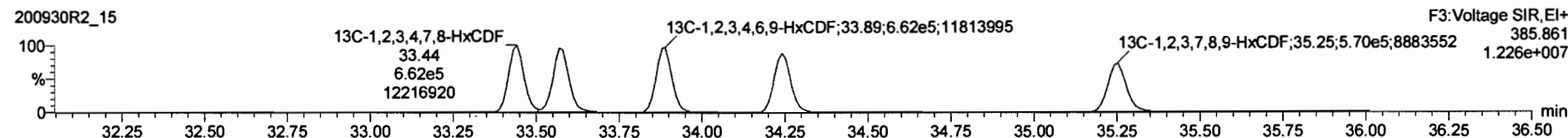
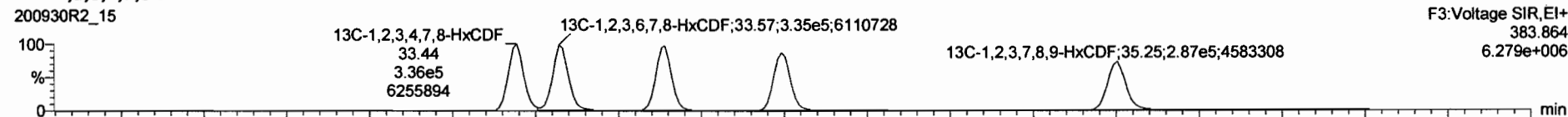
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Name: 200930R2\_15, Date: 01-Oct-2020, Time: 08:10:36, ID: 2001995-16 PDI-174SC-A-02-03-200521 10, Description: PDI-174SC-A-02-03-200521

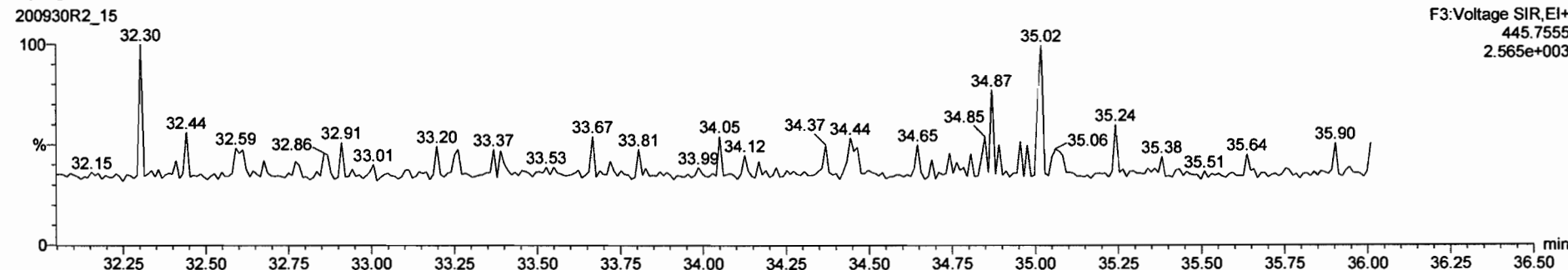
**1,2,3,4,7,8-HxCDF**



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



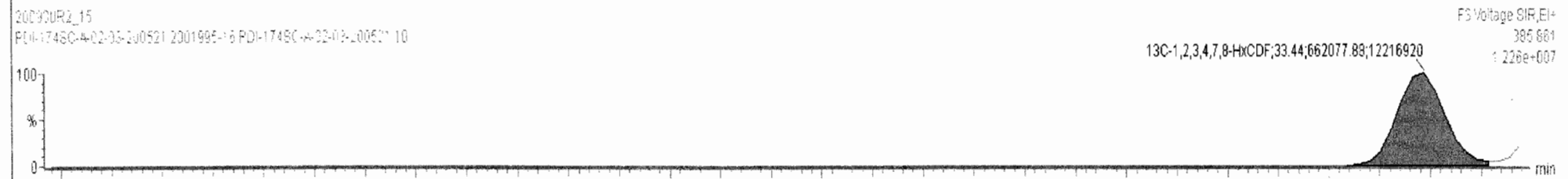
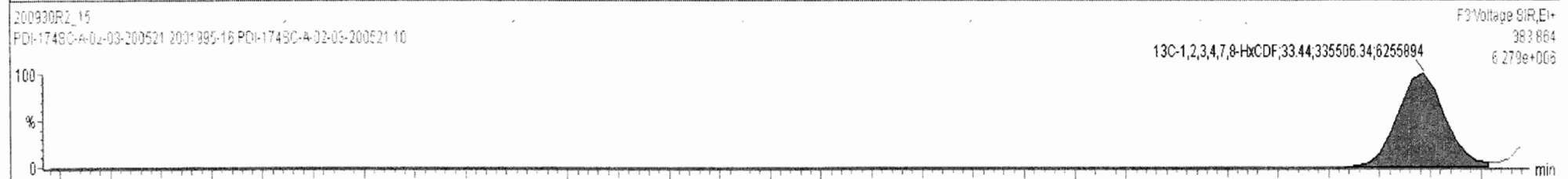
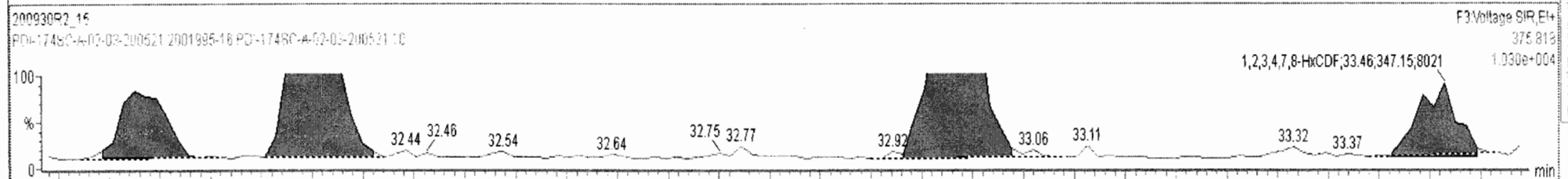
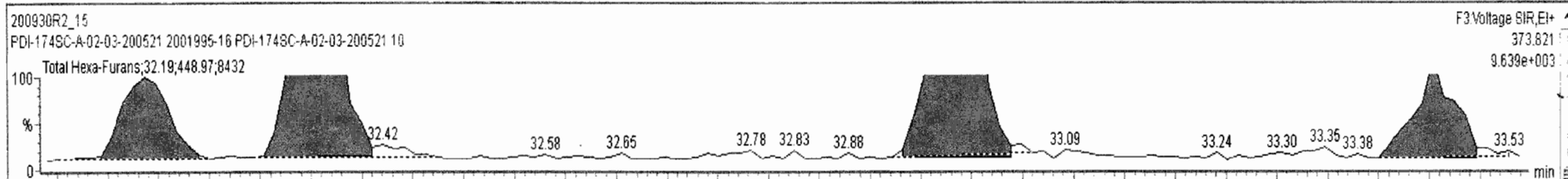
**DPE3**



200930R2\_15 - 2001995-16 PDI-174SC-A-02-03-200521 10 - PDI-174SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44	1st Func. Penta-Furans			0.9386	10.056			0.574		0.0121	0.574
45	Total Penta-Furans			0.9386	10.056			0.231		0.0292	0.420
46	Total Hexa-Furans			0.8688	10.056			1.67		0.0500	1.67

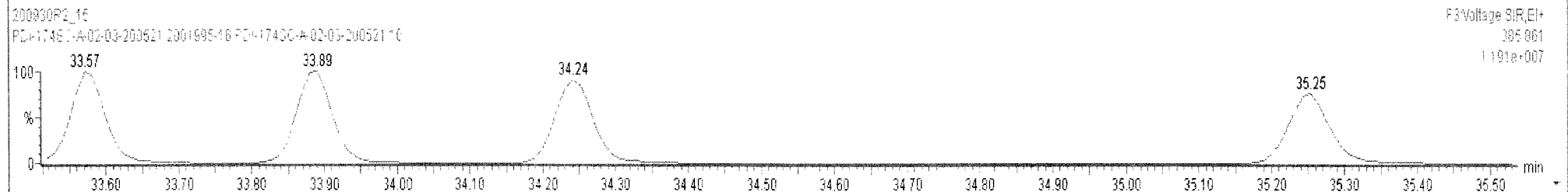
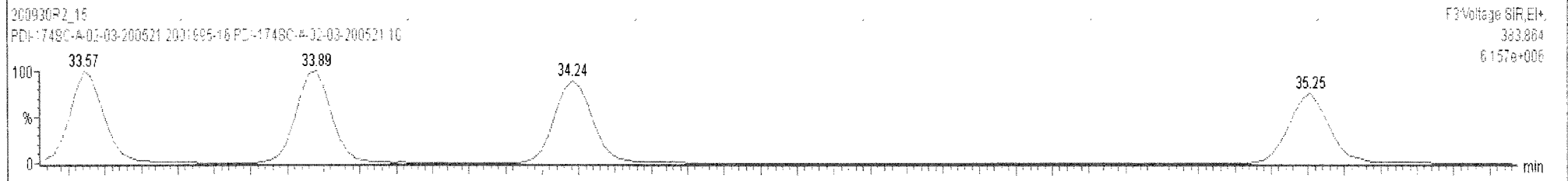
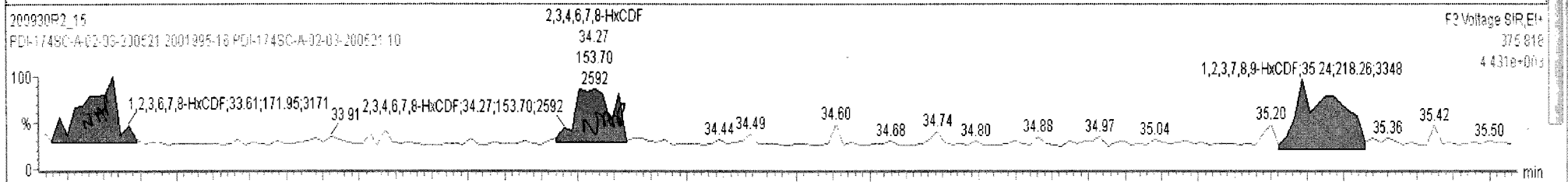
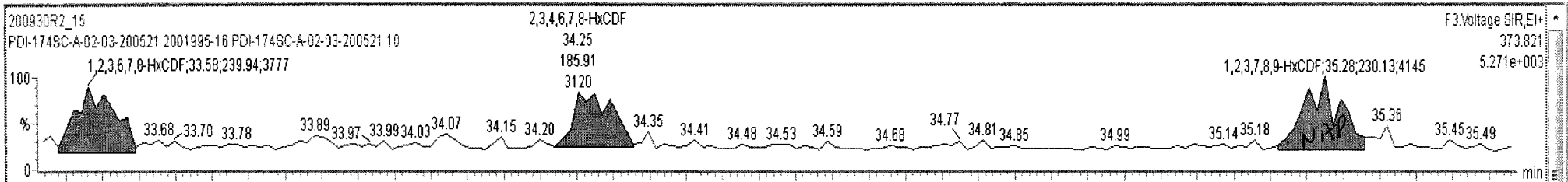
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	32.19	4.490e2	3.750e2	1.20	NO	0.19846
2	Total Hexa-Furans	32.36	1.285e3	1.114e3	1.15	NO	0.57801
3	Total Hexa-Furans	32.99	1.415e3	1.304e3	1.08	NO	0.65486
4	1,2,3,4,7,8-HxCDF	33.45	4.363e2	3.471e2	1.26	NO	0.18551



200930R2\_15 - 2001995-16 PDI-1745C-A-02-03-200521 10 - PDI-1745C-A-02-03-200521

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9386	10.056			0.574		0.0121	0.574
45 Total Penta-Furans				0.9386	10.056			0.231		0.0292	0.420
46 Total Hexa-Furans				0.8699	10.056			1.91		0.0500	1.91

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
4 1,2,3,4,7,8-HxCDF	33.45	4.363e2	3.471e2	1.26	NO	0.18551	0.18551
5 1,2,3,6,7,8-HxCDF	33.58	2.399e2	1.720e2	1.40	NO	0.092355	0.092355
6 2,3,4,6,7,8-HxCDF	34.25	1.859e2	1.537e2	1.21	NO	0.081700	0.081700
7 1,2,3,7,8,9-HxCDF	35.28	2.301e2	2.183e2	1.05	NO	0.12178	0.12178



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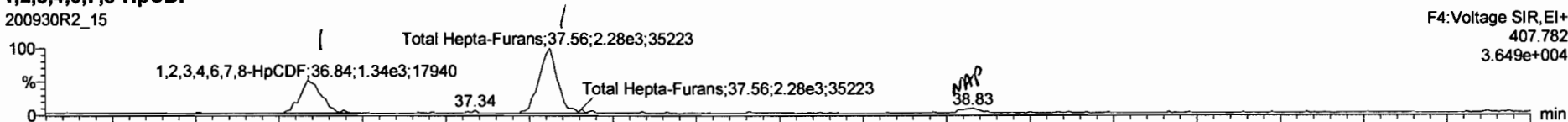
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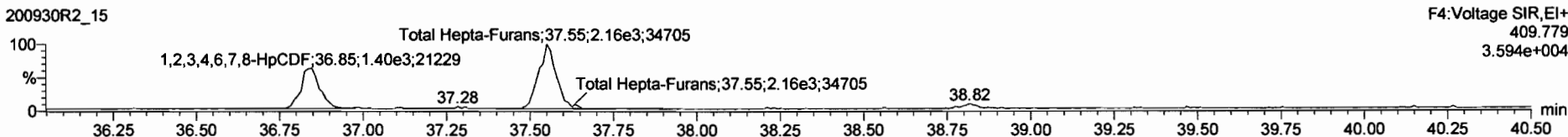
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**1,2,3,4,6,7,8-HpCDF**

200930R2\_15

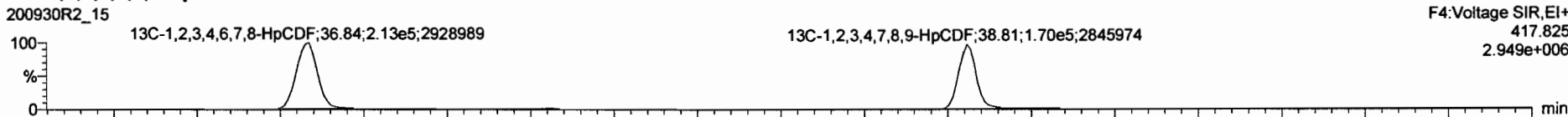


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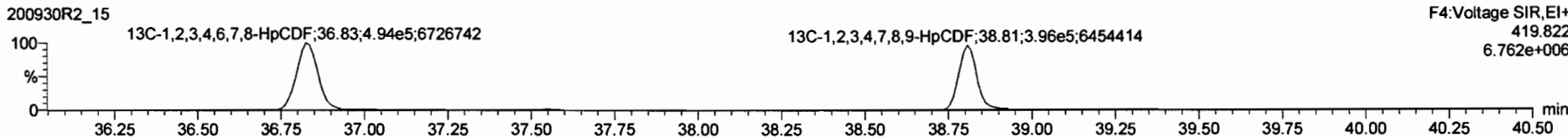


**13C-1,2,3,4,6,7,8-HpCDF**

200930R2\_15

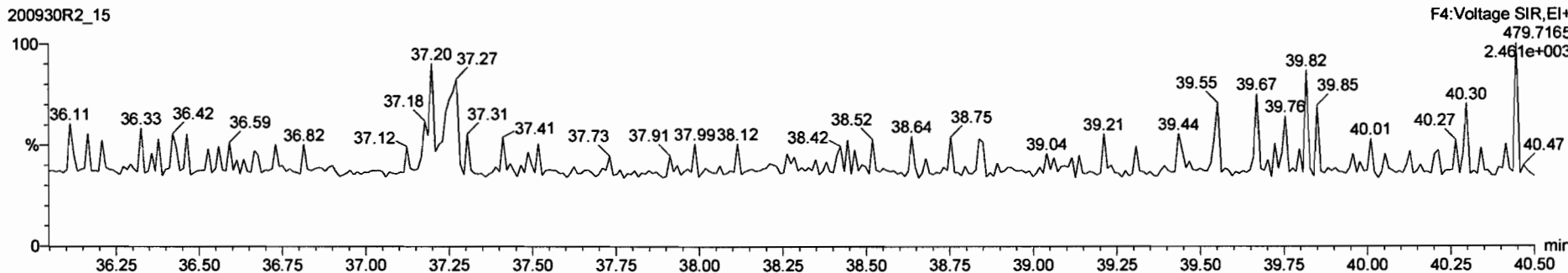


200930R2\_15



**DPE4**

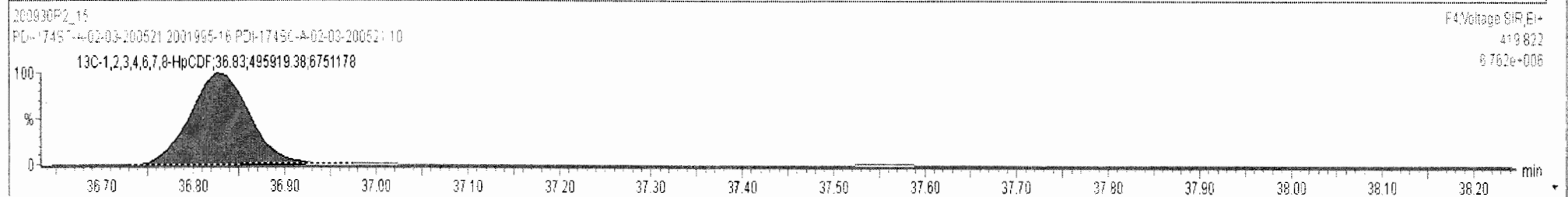
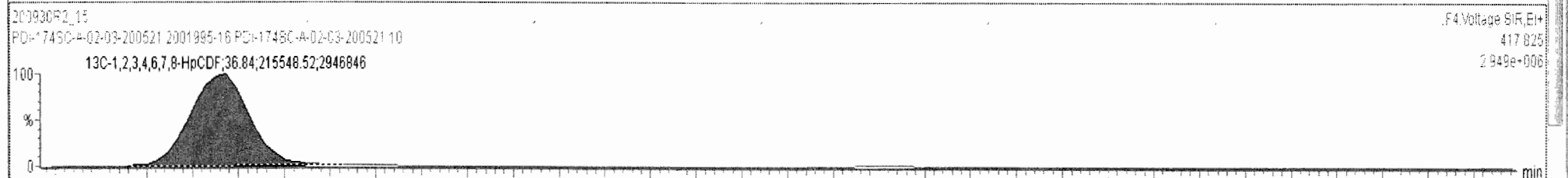
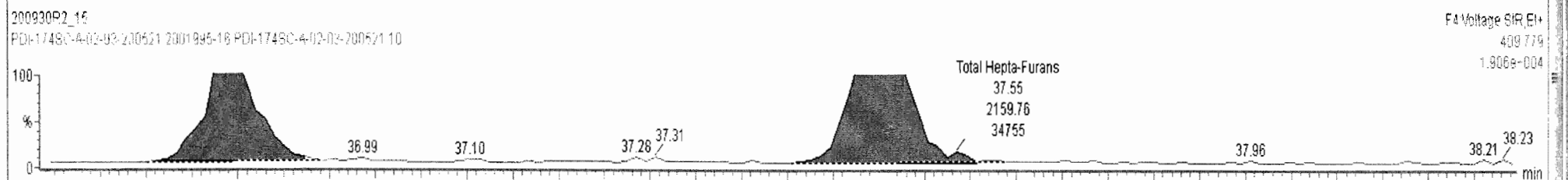
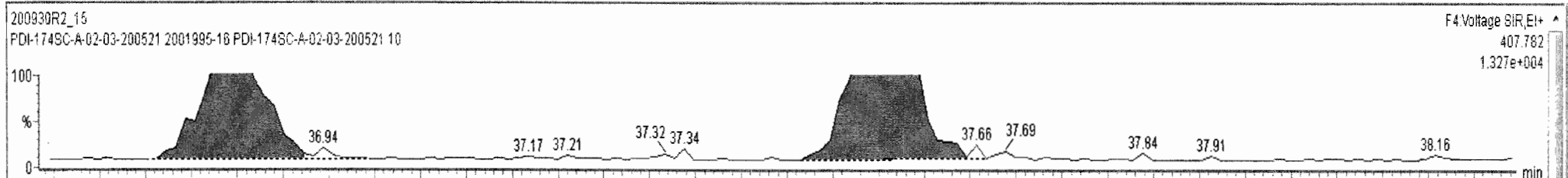
200930R2\_15



200930R2\_15 - 2001995-16 PDI-174SC-A-02-03-200521 10 - FDI-174SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
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48 PFK1											
49 PFK2											

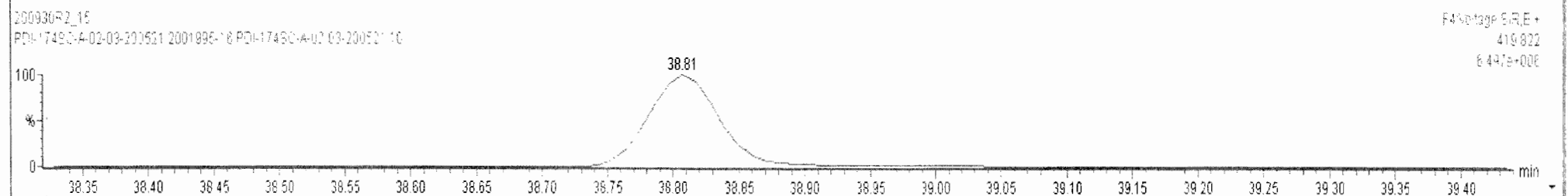
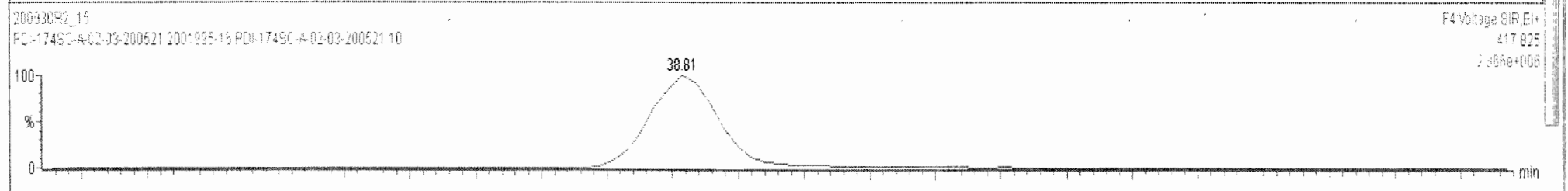
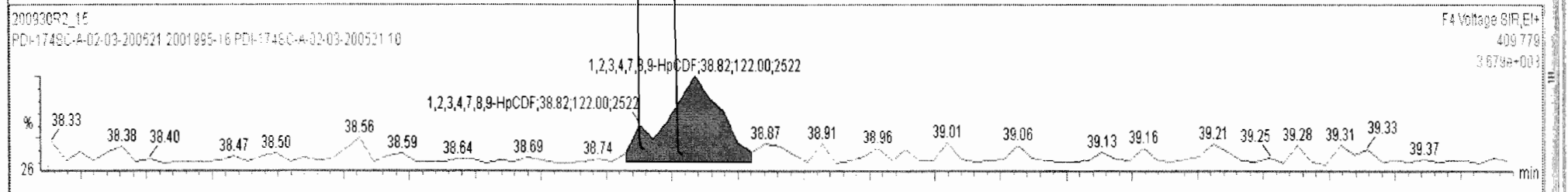
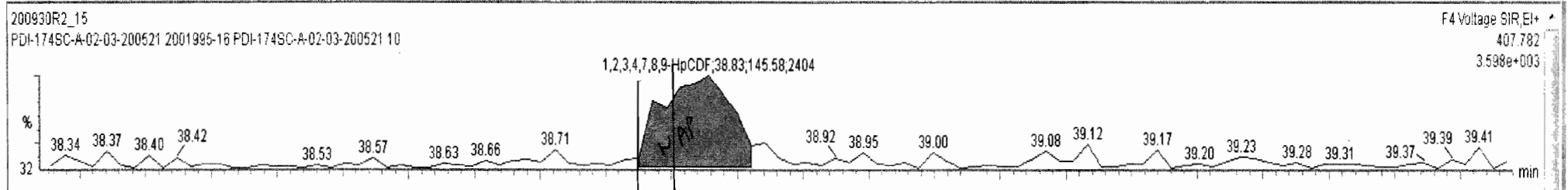
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.84	1.306e3	1.363e3	0.94	NO	0.84395	0.84395
2 Total Hepta-Furans	37.56	2.255e3	2.160e3	1.04	NO	1.5428	1.5428



200930R2\_15 - 2001995-16 PDI-174SC-A-02-03-200521 10 - PDI-174SC-A-02-03-200521

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
47	Total Hepta-Furans			0.8908	10.056			2.48		0.0622	2.48
48	PFK1										
49	PFK2										

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.64	1.306e3	1.383e3	0.94	NO	0.84395
2	Total Hepta-Furans	37.56	2.255e3	2.160e3	1.04	NO	1.5428
3	1,2,3,4,7,8,9-HpCDF	38.83	1.456e2	1.220e2	1.19	NO	0.093943

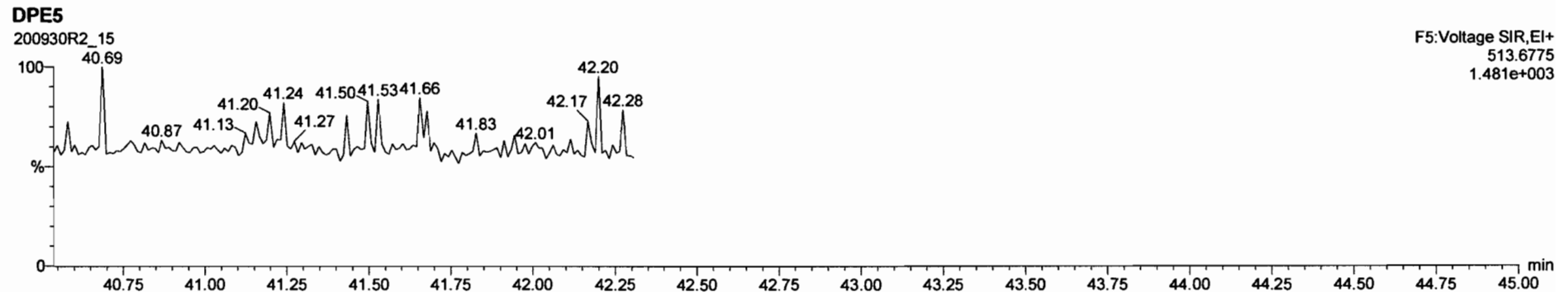
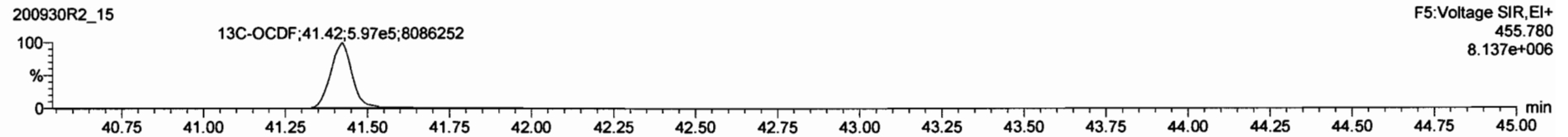
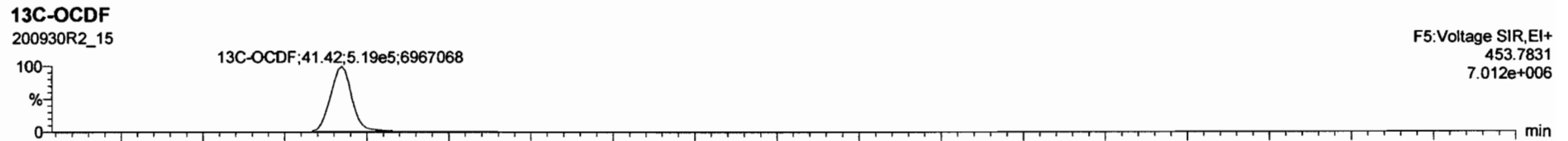
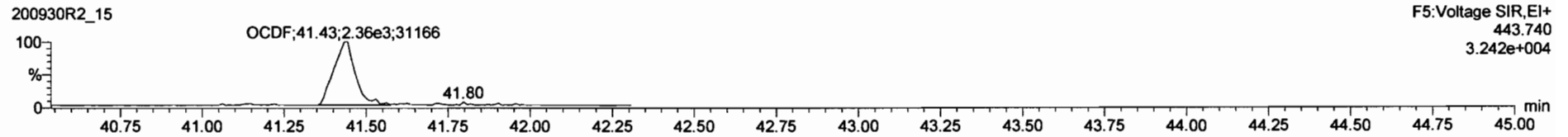
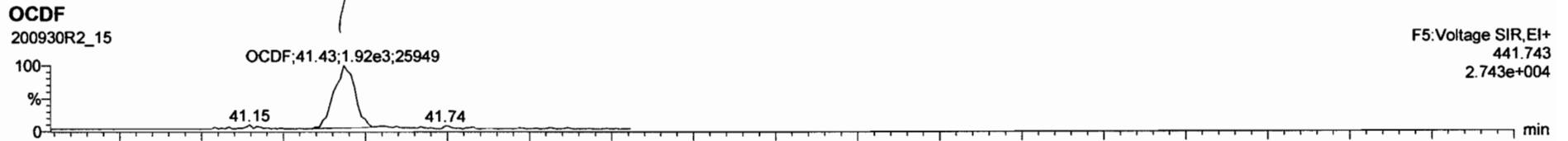




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Printed: Thursday, October 01, 2020 09:04:09 Pacific Daylight Time

Name: 200930R2\_15, Date: 01-Oct-2020, Time: 08:10:36, ID: 2001995-16 PDI-174SC-A-02-03-200521 10, Description: PDI-174SC-A-02-03-200521

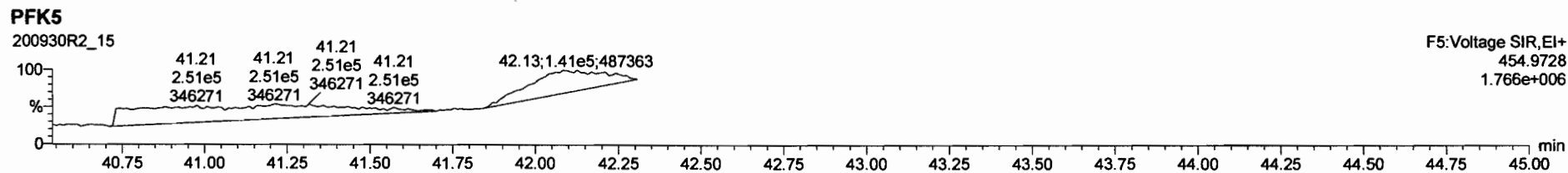
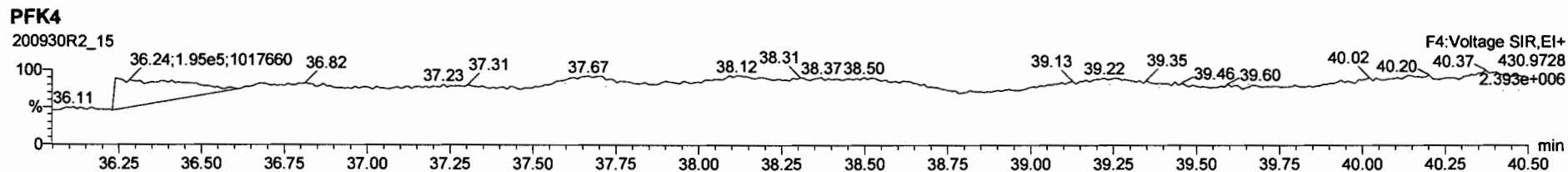
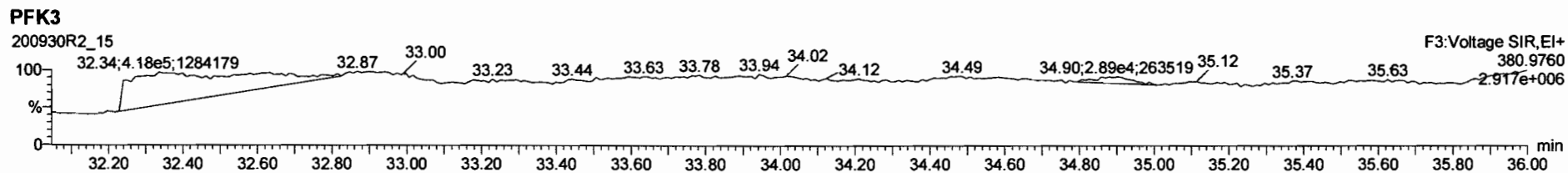
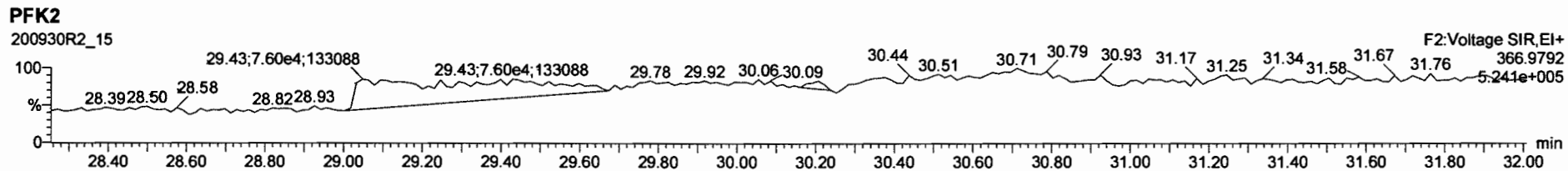
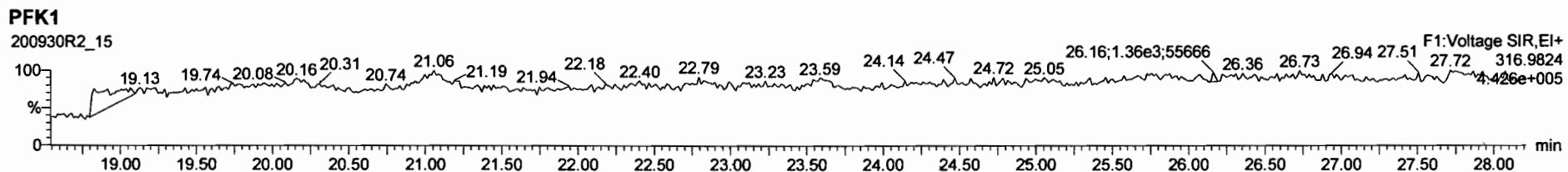


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Name: 200930R2\_15, Date: 01-Oct-2020, Time: 08:10:36, ID: 2001995-16 PDI-174SC-A-02-03-200521 10, Description: PDI-174SC-A-02-03-200521



## **CONTINUING CALIBRATION**

**HRMS CALIBRATION STANDARDS REVIEW CHECKLIST**

**Beg. Calibration ID:** ST200930R1-1

**Reviewed By:** CT/10/01/2020  
*Initials & Date*

**End Calibration ID:** NA

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

**Mass resolution ≥**

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**   NA

**GC Break <20%**  NA

**8280 CS1 End Standard:**

- **Ratios within limits, S/N <2.5:1, CS1 within 12 hours**  NA

**Comments:**

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-1.qld

Last Altered: Wednesday, September 30, 2020 10:50:40 AM Pacific Daylight Time  
Printed: Wednesday, September 30, 2020 10:51:54 AM Pacific Daylight Time

*GRB 09/30/2020*

*CT 10/01/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_1, Date: 30-Sep-2020, Time: 09:59:37, ID: ST200930R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# 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	1.07e5	1.04e6	0.78	NO	1.02	26.45	26.45	NO	1.001	1.001	10.183	102	NO
2	2 1,2,3,7,8-PeCDD	3.39e5	7.43e5	0.62	NO	0.956	31.07	31.06	NO	1.001	1.000	47.737	95.5	NO
3	3 1,2,3,4,7,8-HxCDD	2.82e5	5.45e5	1.24	NO	1.00	34.37	34.37	NO	1.000	1.000	51.667	103	NO
4	4 1,2,3,6,7,8-HxCDD	2.98e5	6.60e5	1.23	NO	0.888	34.48	34.50	NO	1.000	1.001	50.890	102	NO
5	5 1,2,3,7,8,9-HxCDD	2.89e5	6.35e5	1.22	NO	0.909	34.76	34.76	NO	1.000	1.000	50.019	100	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.17e5	5.05e5	1.00	NO	0.832	38.21	38.21	NO	1.000	1.000	51.575	103	NO
7	7 OCDD	3.58e5	8.13e5	0.88	NO	0.862	41.14	41.15	NO	1.000	1.000	102.11	102	NO
8	8 2,3,7,8-TCDF	1.04e5	1.34e6	0.76	NO	0.735	25.76	25.77	NO	1.000	1.001	10.556	106	NO
9	9 1,2,3,7,8-PeCDF	5.17e5	1.08e6	1.54	NO	0.939	29.83	29.83	NO	1.001	1.001	50.832	102	NO
10	10 2,3,4,7,8-PeCDF	5.21e5	9.96e5	1.53	NO	1.05	30.88	30.86	NO	1.001	1.001	49.897	99.8	NO
11	11 1,2,3,4,7,8-HxCDF	3.26e5	6.97e5	1.21	NO	0.842	33.44	33.47	NO	1.000	1.001	55.485	111	NO
12	12 1,2,3,6,7,8-HxCDF	3.51e5	7.08e5	1.22	NO	0.894	33.59	33.59	NO	1.000	1.000	55.453	111	NO
13	13 2,3,4,6,7,8-HxCDF	3.17e5	6.42e5	1.21	NO	0.870	34.26	34.26	NO	1.001	1.001	56.827	114	NO
14	14 1,2,3,7,8,9-HxCDF	2.66e5	5.71e5	1.22	NO	0.855	35.28	35.28	NO	1.001	1.001	54.380	109	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.52e5	5.17e5	1.00	NO	0.891	36.87	36.85	NO	1.001	1.000	54.723	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.18e5	3.93e5	1.00	NO	1.00	38.82	38.83	NO	1.000	1.000	55.492	111	NO
17	17 OCDF	3.71e5	8.63e5	0.87	NO	0.784	41.42	41.44	NO	1.000	1.001	109.74	110	NO
18	18 13C-2,3,7,8-TCDD	1.04e6	9.16e5	0.75	NO	1.15	26.40	26.42	NO	1.029	1.029	98.431	98.4	NO
19	19 13C-1,2,3,7,8-PeCDD	7.43e5	9.16e5	0.62	NO	0.887	30.99	31.05	NO	1.207	1.210	91.462	91.5	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.45e5	7.13e5	1.27	NO	0.801	34.36	34.36	NO	1.014	1.014	95.427	95.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.60e5	7.13e5	1.28	NO	0.892	34.49	34.48	NO	1.018	1.017	103.86	104	NO
22	22 13C-1,2,3,7,8,9-HxCDD	6.35e5	7.13e5	1.25	NO	0.882	34.75	34.75	NO	1.025	1.025	101.06	101	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.05e5	7.13e5	1.05	NO	0.719	38.18	38.20	NO	1.127	1.127	98.561	98.6	NO
24	24 13C-OCDD	8.13e5	7.13e5	0.90	NO	0.563	41.11	41.14	NO	1.213	1.214	202.76	101	NO
25	25 13C-2,3,7,8-TCDF	1.34e6	1.37e6	0.78	NO	1.01	25.75	25.74	NO	1.003	1.003	96.736	96.7	NO
26	26 13C-1,2,3,7,8-PeCDF	1.08e6	1.37e6	1.57	NO	0.814	29.75	29.81	NO	1.159	1.161	97.216	97.2	NO
27	27 13C-2,3,4,7,8-PeCDF	9.96e5	1.37e6	1.59	NO	0.768	30.79	30.85	NO	1.200	1.202	94.645	94.6	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.97e5	7.13e5	0.50	NO	0.993	33.44	33.44	NO	0.987	0.987	98.563	98.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.08e5	7.13e5	0.50	NO	0.990	33.58	33.58	NO	0.991	0.991	100.31	100	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.42e5	7.13e5	0.50	NO	0.944	34.25	34.24	NO	1.011	1.010	95.435	95.4	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.71e5	7.13e5	0.50	NO	0.842	35.27	35.25	NO	1.041	1.040	95.267	95.3	NO

Dataset: U:\VG12.PRO\Results\200930R1\200930R1-1.qld

Last Altered: Wednesday, September 30, 2020 10:50:40 AM Pacific Daylight Time

Printed: Wednesday, September 30, 2020 10:51:54 AM Pacific Daylight Time

Name: 200930R1\_1, Date: 30-Sep-2020, Time: 09:59:37, ID: ST200930R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.17e5	7.13e5	0.43	NO	0.687	36.86	36.84	NO	1.087	1.087	105.59	106	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.93e5	7.13e5	0.43	NO	0.555	38.80	38.82	NO	1.145	1.145	99.505	99.5	NO
34	34 13C-OCDF	8.63e5	7.13e5	0.83	NO	0.608	41.39	41.42	NO	1.221	1.222	199.11	99.6	NO
35	35 37Cl-2,3,7,8-TCDD	1.03e5	9.16e5			1.18	26.44	26.45	NO	1.030	1.030	9.5122	95.1	NO
36	36 13C-1,2,3,4-TCDD	9.16e5	9.16e5	0.78	NO	1.00	25.74	25.67	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.37e6	1.37e6	0.80	NO	1.00	24.31	24.22	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.13e5	7.13e5	0.50	NO	1.00	33.92	33.89	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Thursday, October 01, 2020 07:08:16 Pacific Daylight Time

Printed: Thursday, October 01, 2020 07:10:15 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

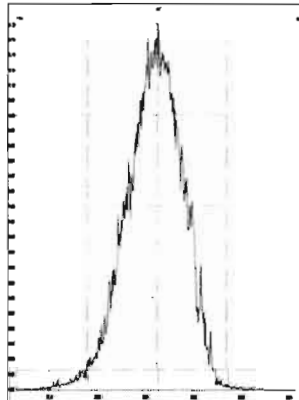
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200930R1_1	ST200930R1_1 1613 CS3 20F1105	30-Sep-20	09:59:37
2	200930R1_2	TCDF CPSM	30-Sep-20	10:45:27
3	200930R1_3	B0I0216-BS1 OPR 10	30-Sep-20	11:29:00
4	200930R1_4	SOLVENT BLANK	30-Sep-20	12:13:31
5	200930R1_5	SOLVENT BLANK	30-Sep-20	13:02:25
6	200930R1_6	B0I0216-BLK1 Method Blank 10	30-Sep-20	13:46:31
7	200930R1_7	2002027-01 NCPDI-012SG-200925 10	30-Sep-20	14:31:40
8	200930R1_8	2002027-02 NCPDI-013SG-200925 10	30-Sep-20	15:16:19
9	200930R1_9	2001995-01 PDI-048SC-A-08-11-200506 10	30-Sep-20	16:01:05
10	200930R1_10	2001995-02 PDI-068SC-A-07-08-200430 10	30-Sep-20	16:44:34
11	200930R1_11	B0I0216-DUP1 Duplicate 10	30-Sep-20	17:28:14
12	200930R1_12	2001995-03 PDI-068SC-A-08-09-200430 10	30-Sep-20	18:11:56
13	200930R1_13	2001995-04 PDI-068SC-A-09-10-200430 10	30-Sep-20	18:55:38
14	200930R1_14	2001995-05 PDI-078SC-A-07-08-200505 10	30-Sep-20	19:39:18
15	200930R1_15	2001949-01@10X LS 23 Cells 17-19-2020091...	30-Sep-20	20:23:00
16	200930R1_16	2001969-03@15X LS 7 Cells 9-10-20200915 ...	30-Sep-20	21:06:43

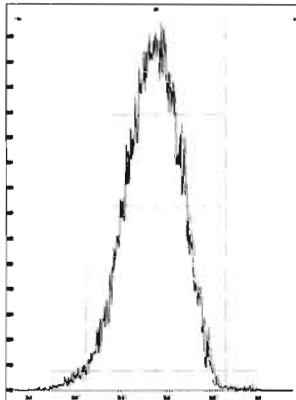
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, September 30, 2020 09:56:43 Pacific Daylight Time

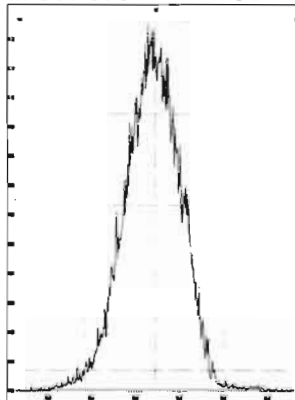
M 292.9824 R 11013



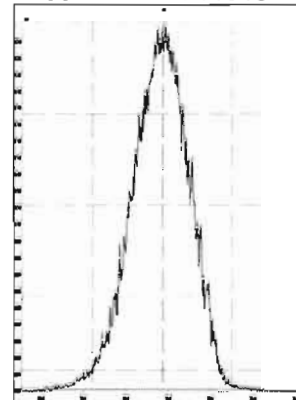
M 304.9824 R 11108



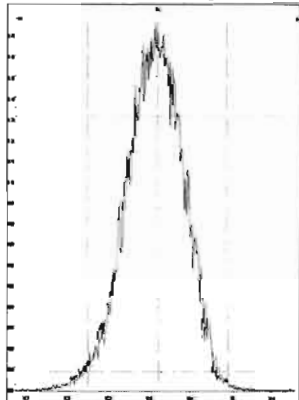
M 318.9792 R 11261



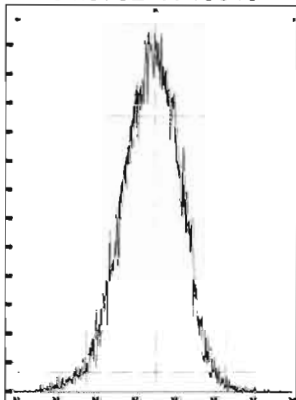
M 330.9792 R 11015



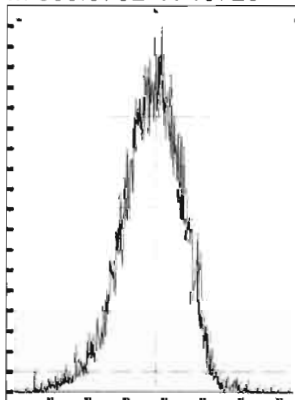
M 342.9792 R 10729



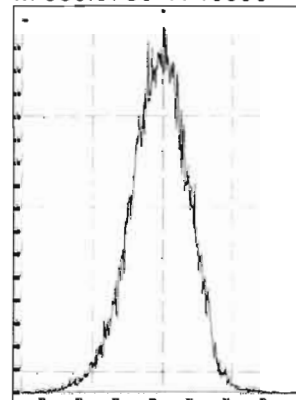
M 354.9792 R 10819



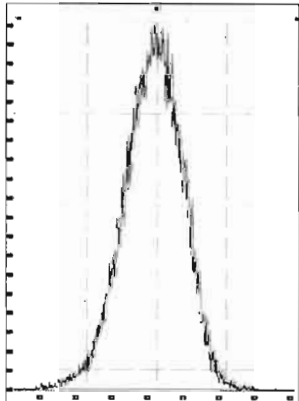
M 366.9792 R 10729



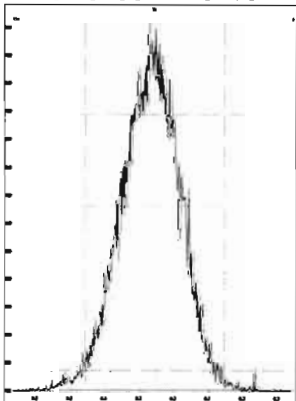
M 380.9760 R 10590



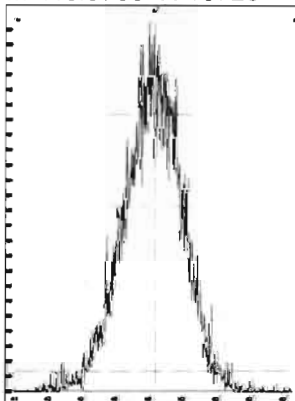
M 392.9760 R 10547



M 404.9760 R 10680



M 416.9760 R 10728

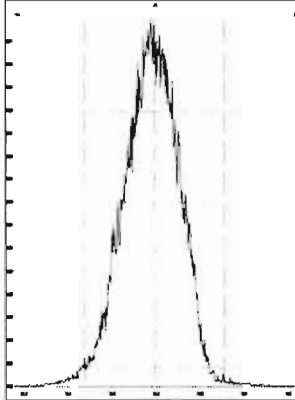




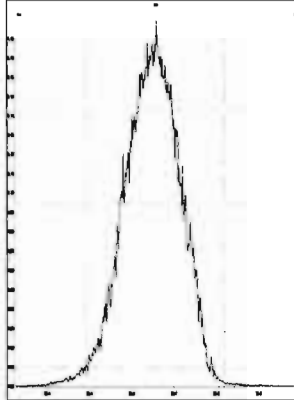
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, September 30, 2020 09:57:09 Pacific Daylight Time

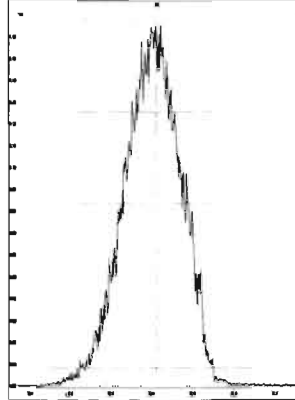
M 318.9792 R 10823



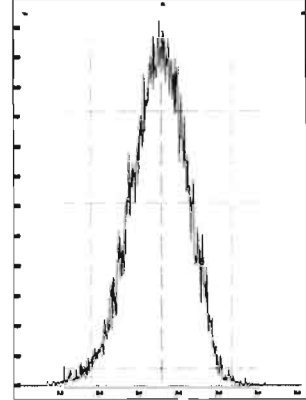
M 330.9792 R 11519



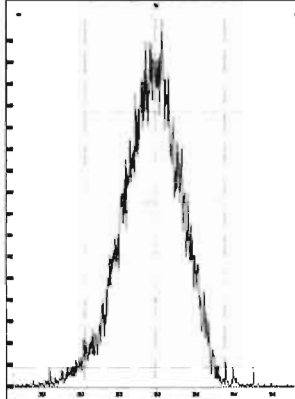
M 342.9792 R 11058



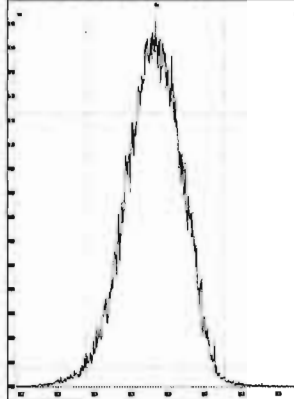
M 354.9792 R 10868



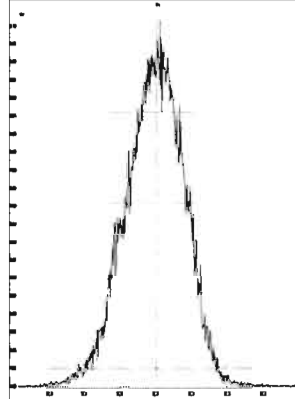
M 366.9792 R 10870



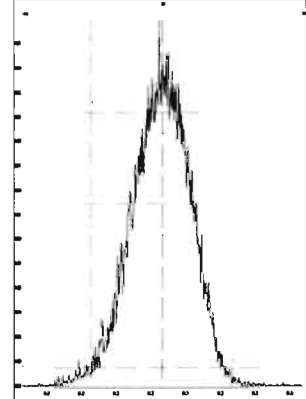
M 380.9760 R 10591



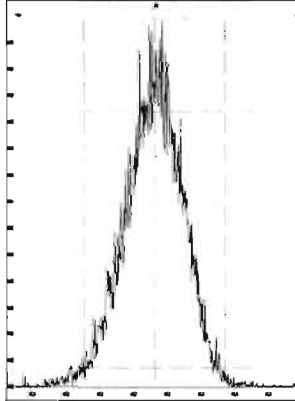
M 392.9760 R 10684



M 404.9760 R 10640



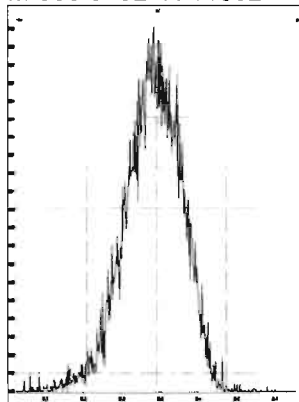
M 416.9760 R 10917



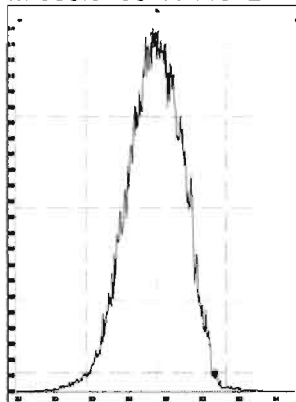
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Printed: Wednesday, September 30, 2020 09:57:49 Pacific Daylight Time

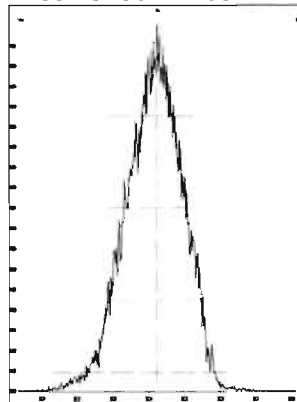
M 366.9792 R 11062



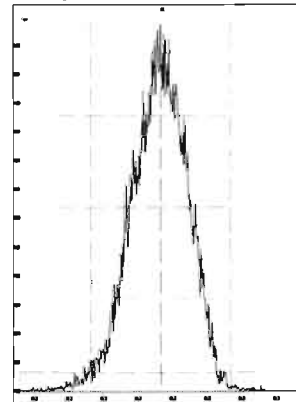
M 380.9760 R 11572



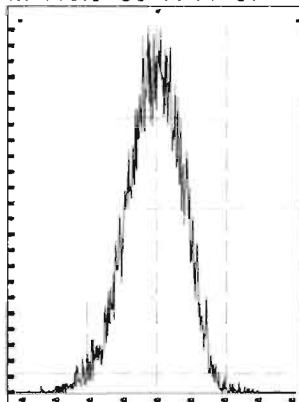
M 392.9760 R 10918



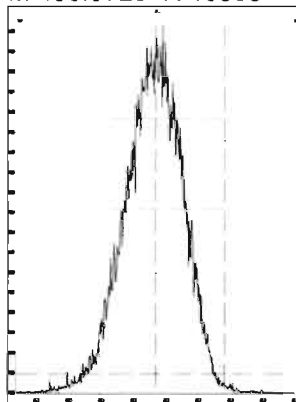
M 404.9760 R 11414



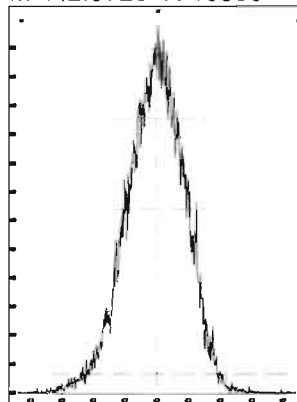
M 416.9760 R 11737



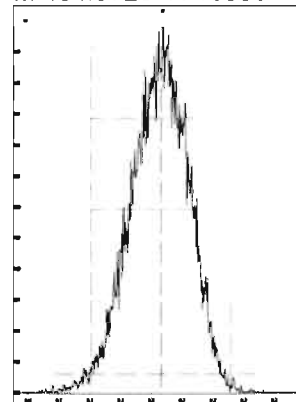
M 430.9728 R 10686



M 442.9728 R 10680



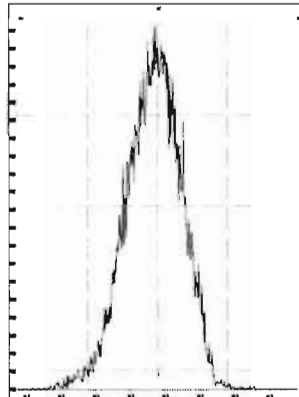
M 454.9728 R 10550



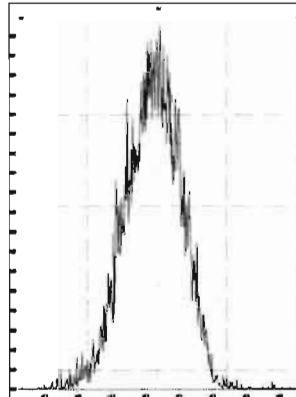
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, September 30, 2020 09:58:10 Pacific Daylight Time

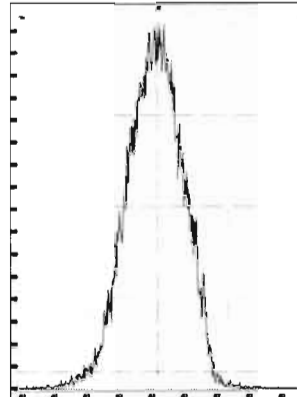
M 404.9760 R 11312



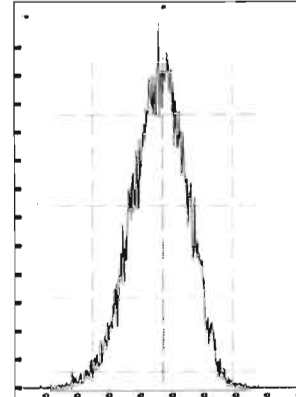
M 416.9760 R 12021



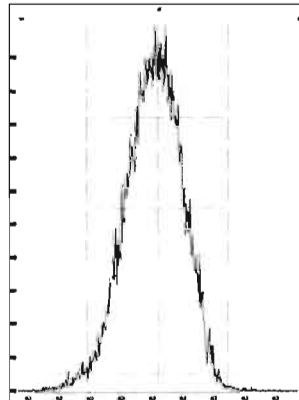
M 430.9728 R 11570



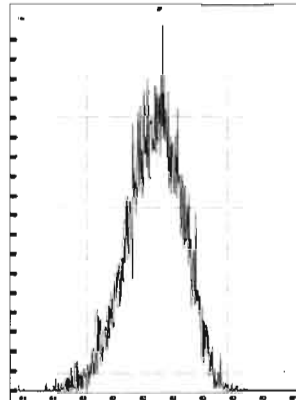
M 442.9728 R 11314



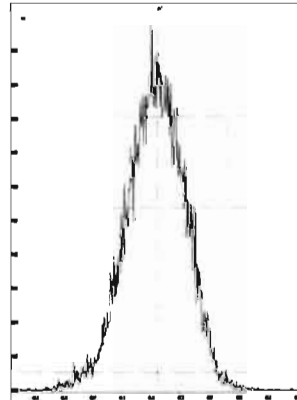
M 454.9728 R 11111



M 466.9728 R 11310



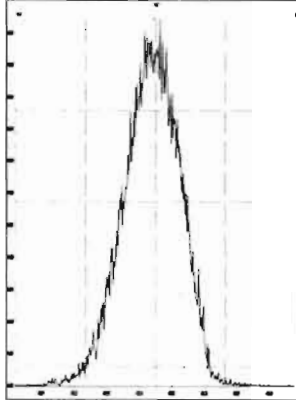
M 480.9696 R 11210



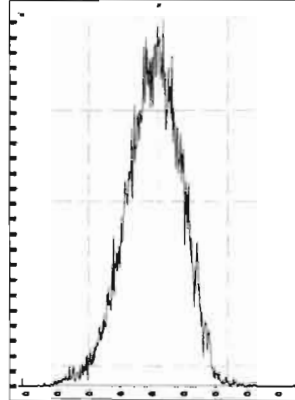
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Printed: Wednesday, September 30, 2020 09:58:32 Pacific Daylight Time

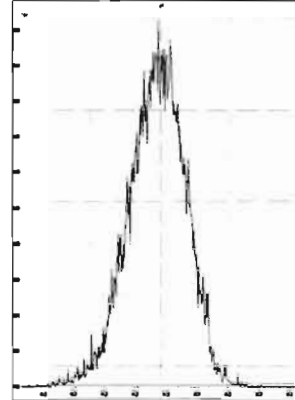
M 430.9728 R 11211



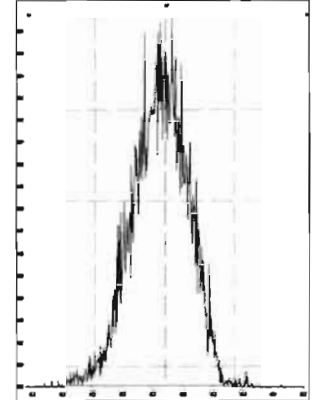
M 442.9728 R 11260



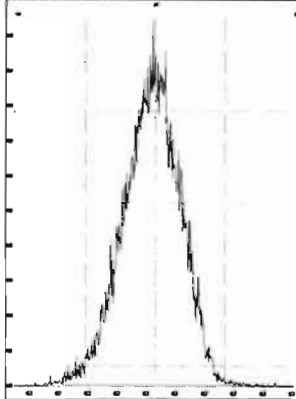
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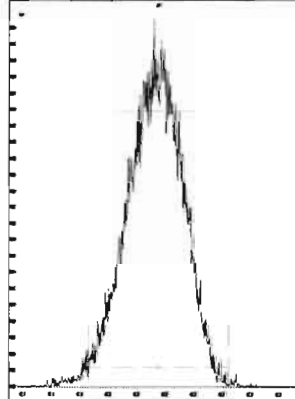
M 466.9728 R 11907



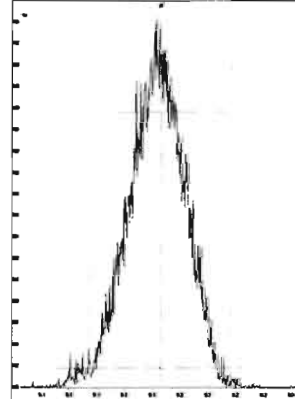
M 480.9696 R 10870



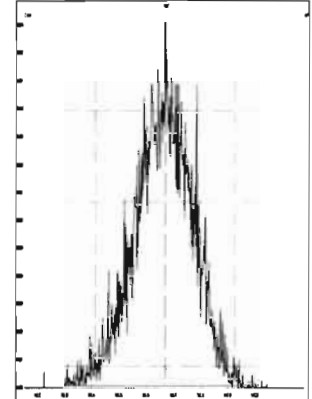
M 492.9696 R 11110



M 504.9696 R 11211



M 516.9697 R 11359



Dataset: Untitled

Last Altered: Wednesday, September 30, 2020 10:46:18 AM Pacific Daylight Time

Printed: Wednesday, September 30, 2020 10:46:45 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R1\_1, Date: 30-Sep-2020, Time: 09:59:37, ID: ST200930R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.73
2	2 1,2,8,9-TCDD (Last)	27.31
3	3 1,2,4,7,9-PeCDD (First)	28.84
4	4 1,2,3,8,9-PeCDD (Last)	31.41
5	5 1,2,4,6,7,9-HxCDD (First)	32.72
6	6 1,2,3,7,8,9-HxCDD (Last)	34.76
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.23
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.21
9	9 1,3,6,8-TCDF (First)	20.50
10	10 1,2,8,9-TCDF (Last)	27.63
11	11 1,3,4,6,8-PeCDF (First)	27.19
12	12 1,2,3,8,9-PeCDF (Last)	31.78
13	13 1,2,3,4,6,8-HxCDF (First)	32.19
14	14 1,2,3,7,8,9-HxCDF (Last)	35.28
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.85
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.83

Dataset: Untitled

Last Altered: Wednesday, September 30, 2020 10:46:18 AM Pacific Daylight Time  
Printed: Wednesday, September 30, 2020 10:46:45 AM Pacific Daylight Time

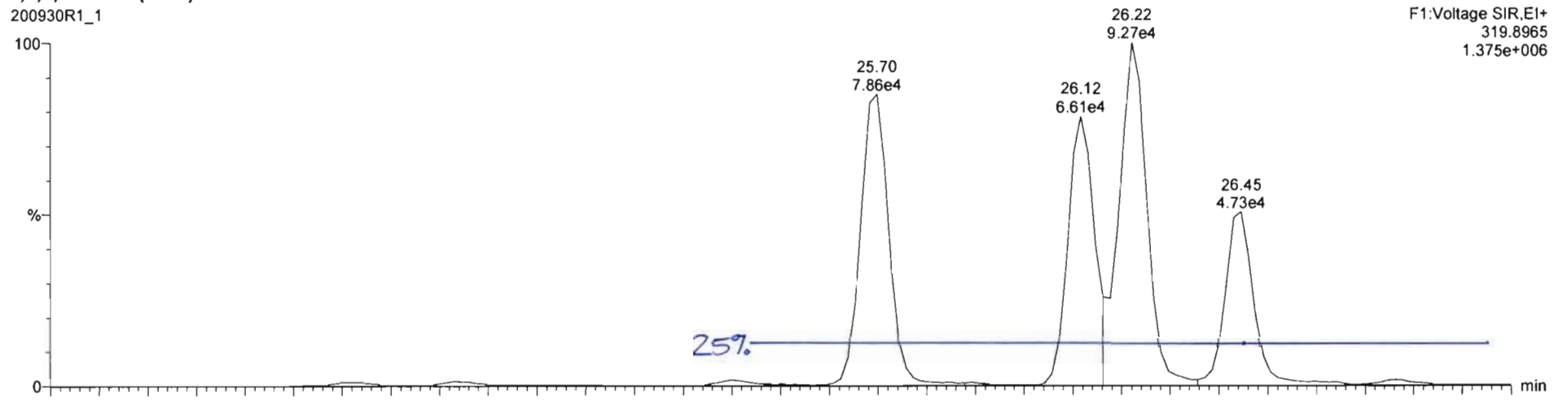
GPB 09/30/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

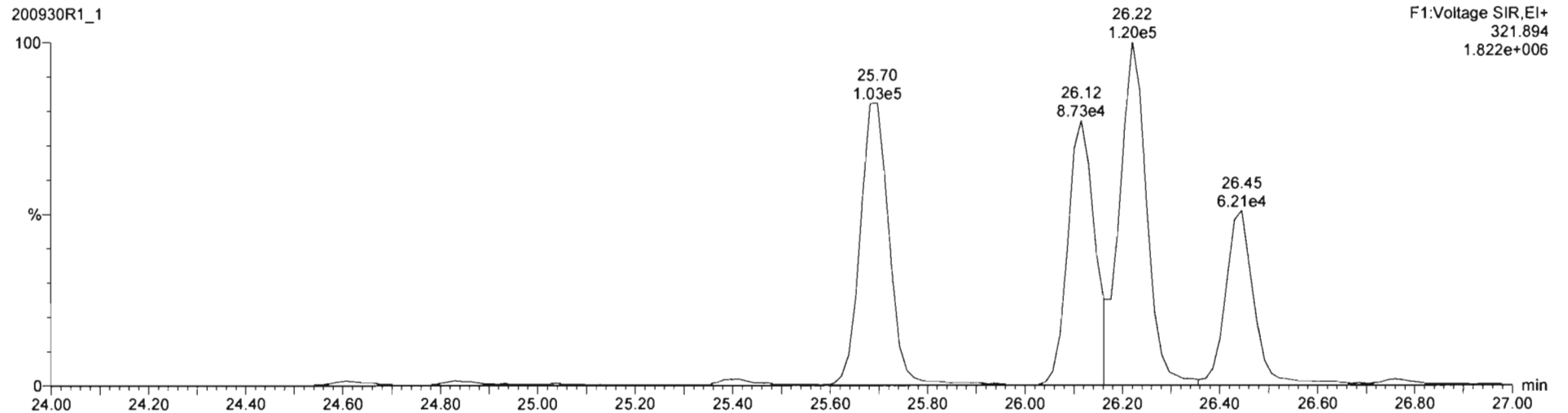
Name: 200930R1\_1, Date: 30-Sep-2020, Time: 09:59:37, ID: ST200930R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

200930R1\_1

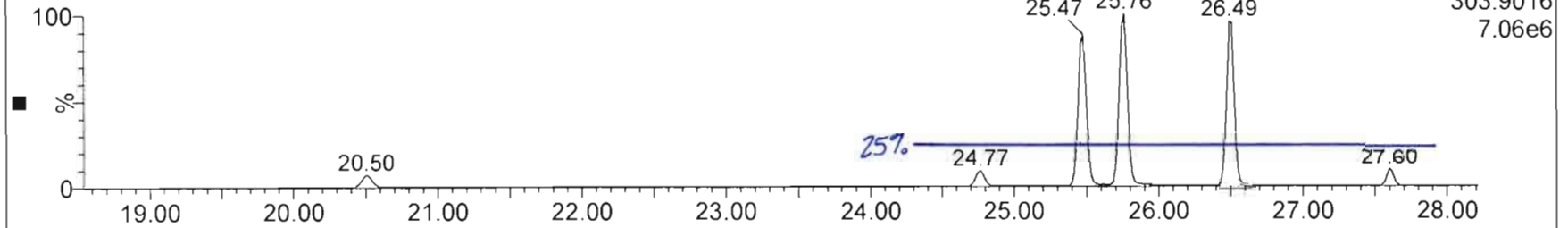


200930R1\_1

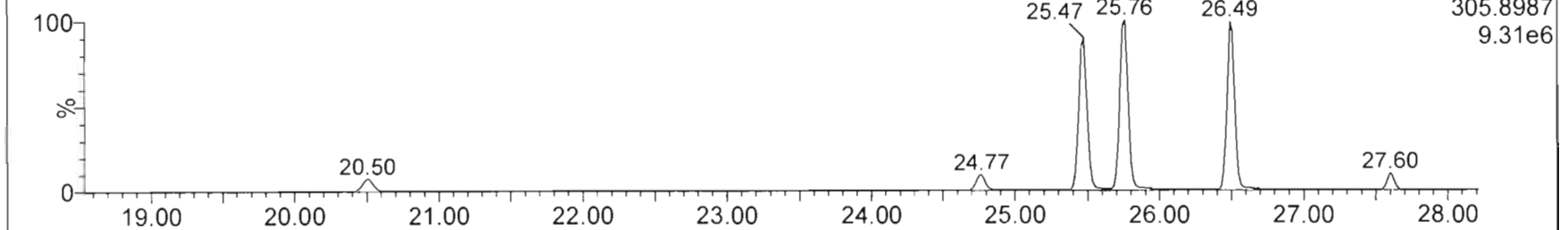


### TCDF CPSM QC

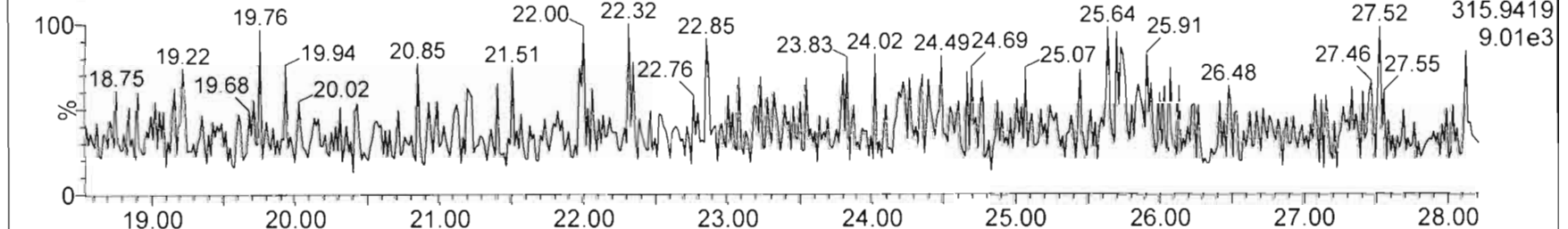
200930R1\_2



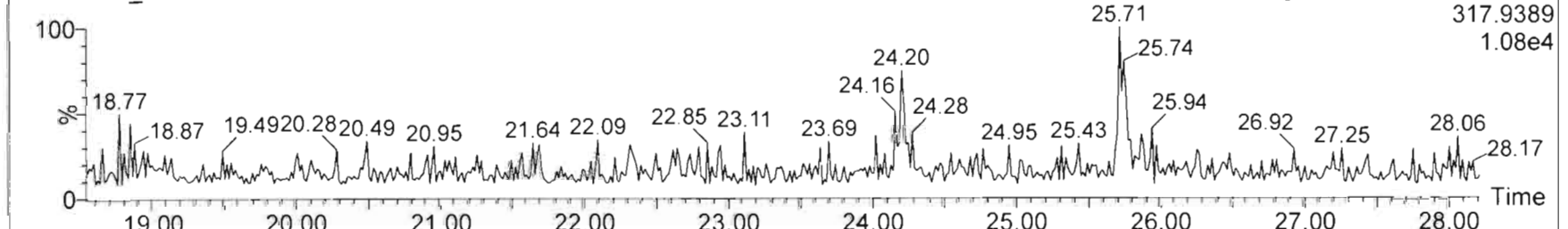
200930R1\_2



200930R1\_2



200930R1\_2



Dataset: Untitled

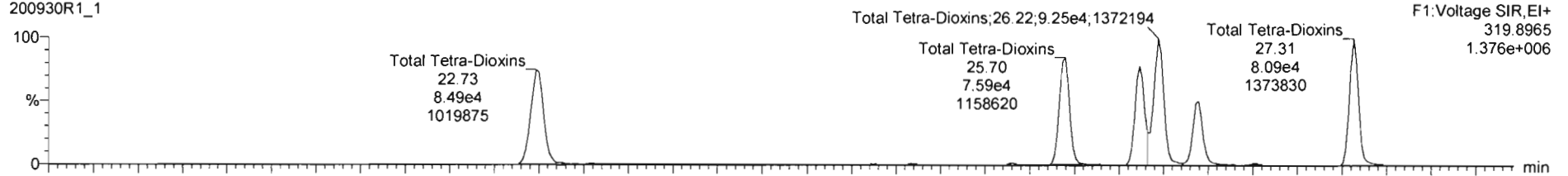
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Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

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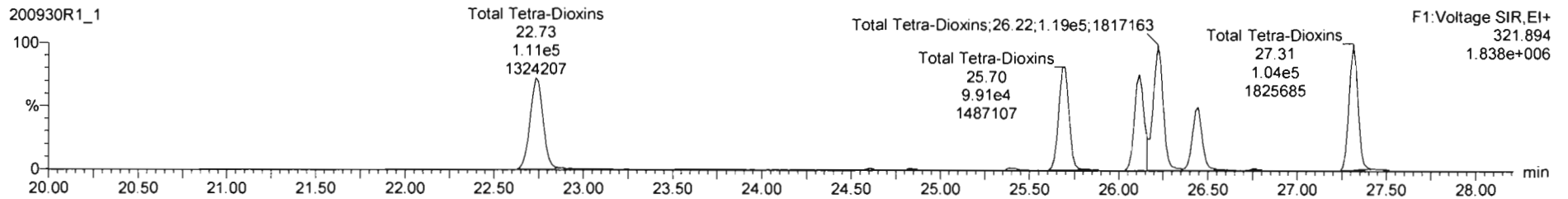
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2,3,7,8-TCDD

200930R1\_1

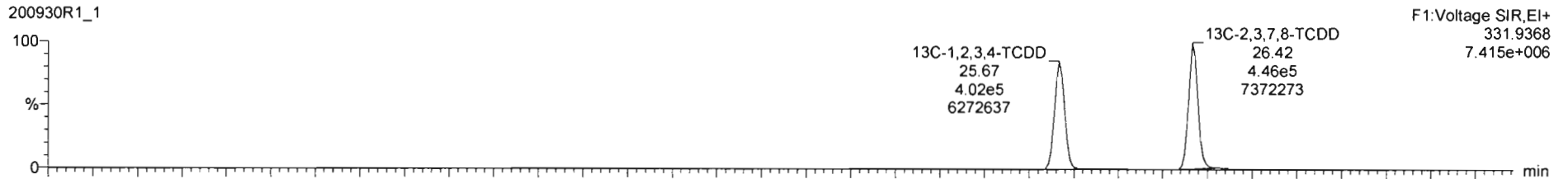


200930R1\_1

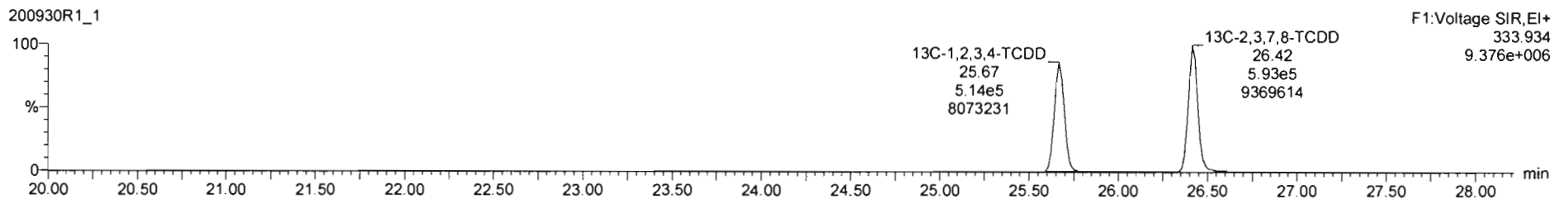


13C-2,3,7,8-TCDD

200930R1\_1



200930R1\_1





Dataset: Untitled

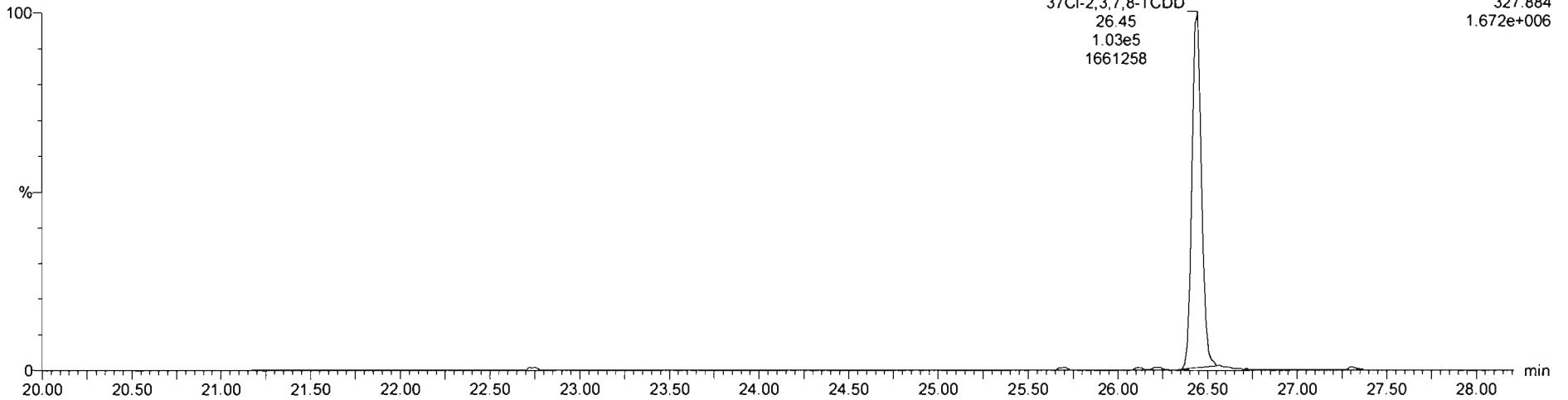
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Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

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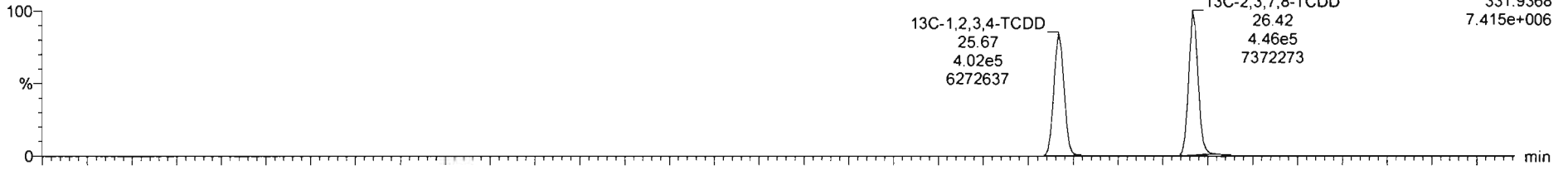
**37Cl-2,3,7,8-TCDD**

200930R1\_1

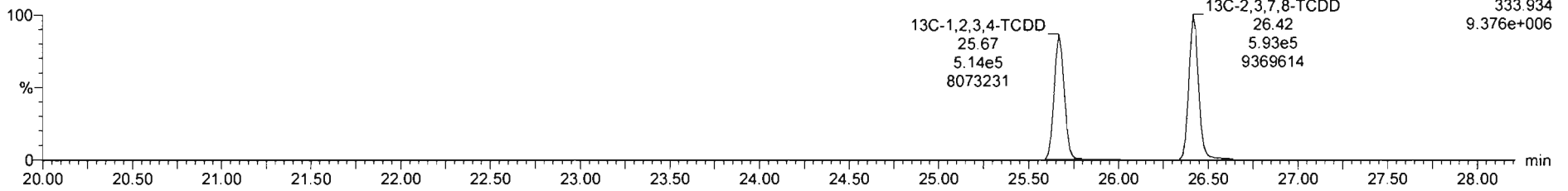


**13C-1,2,3,4-TCDD**

200930R1\_1



200930R1\_1



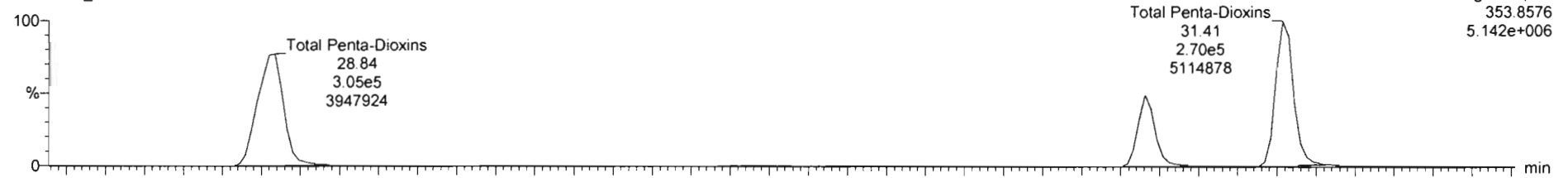
Dataset: Untitled

Last Altered: Wednesday, September 30, 2020 10:49:09 AM Pacific Daylight Time  
Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

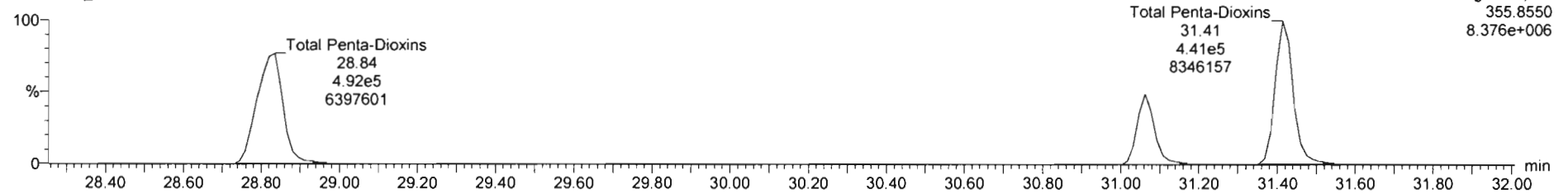
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**1,2,3,7,8-PeCDD**

200930R1\_1

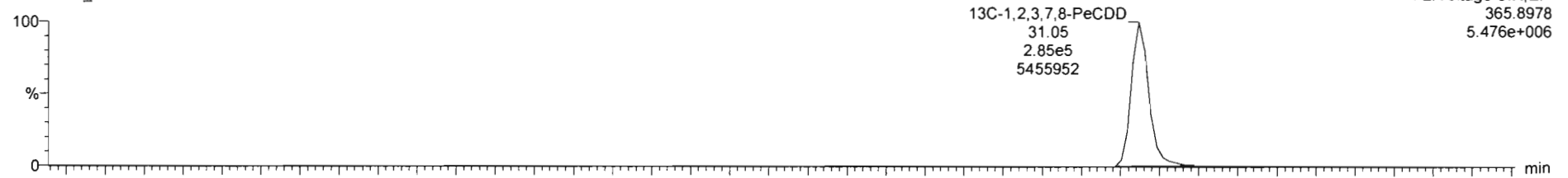


200930R1\_1

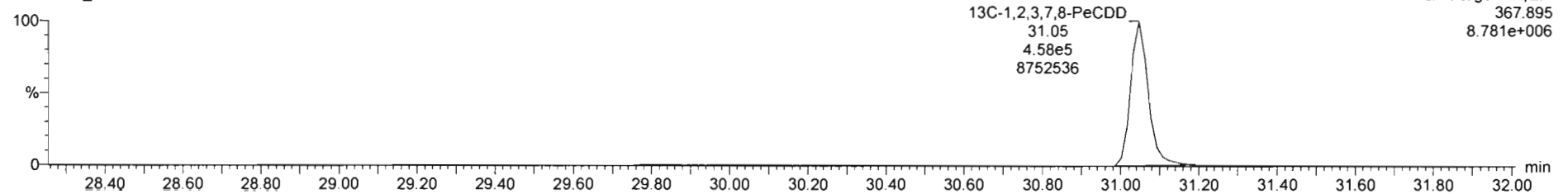


**13C-1,2,3,7,8-PeCDD**

200930R1\_1



200930R1\_1



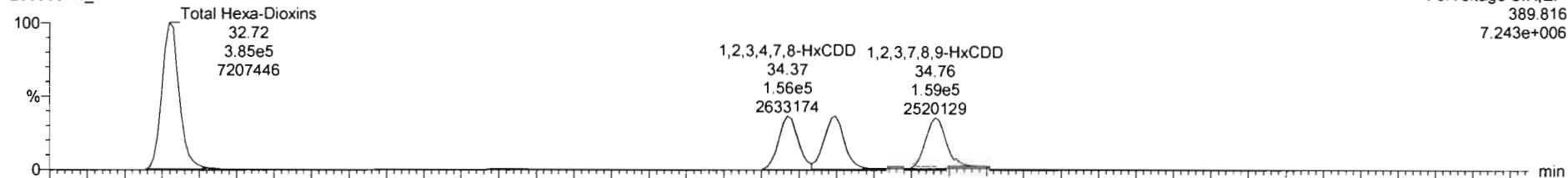
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Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

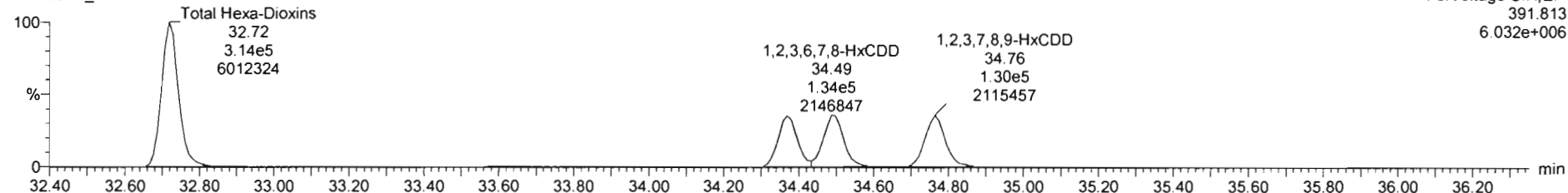
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1,2,3,4,7,8-HxCDD

200930R1\_1

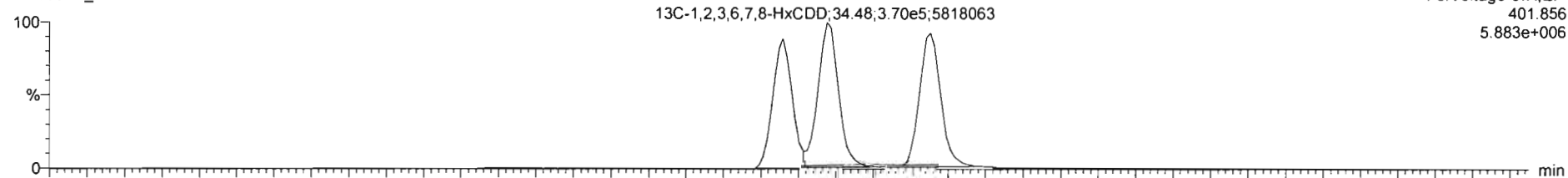


200930R1\_1

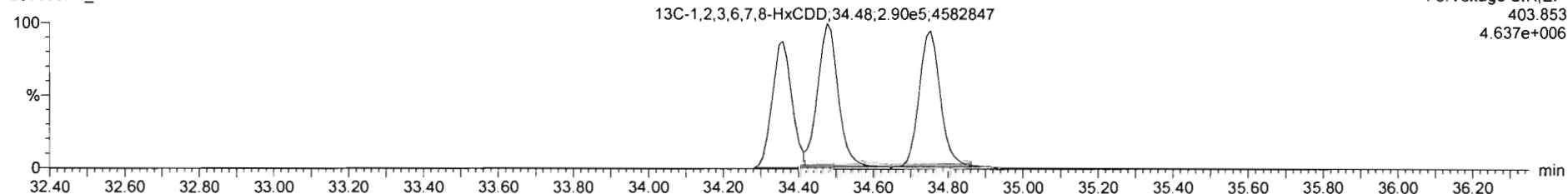


13C-1,2,3,4,7,8-HxCDD

200930R1\_1



200930R1\_1



Dataset: Untitled

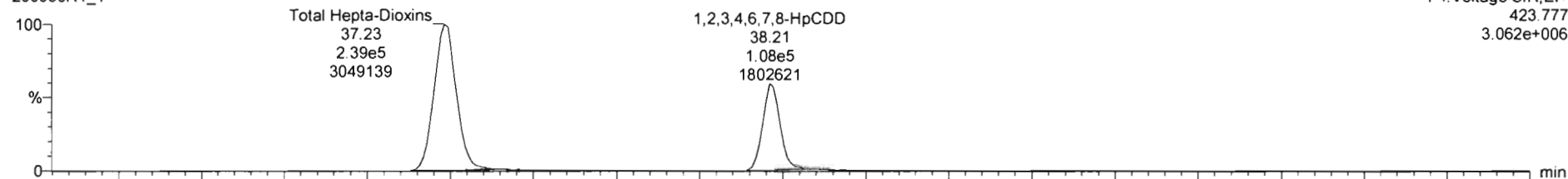
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Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

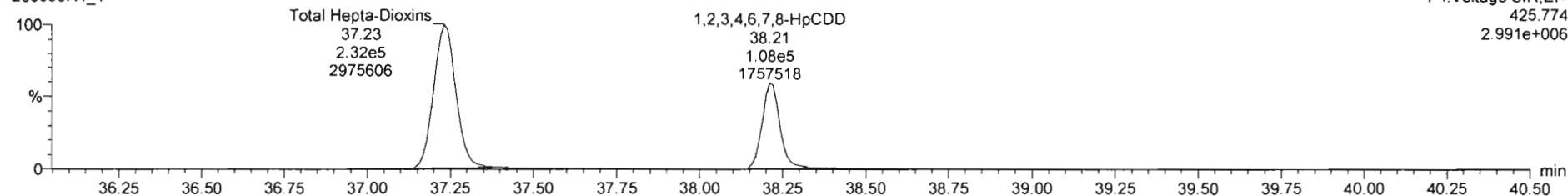
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1,2,3,4,6,7,8-HpCDD

200930R1\_1

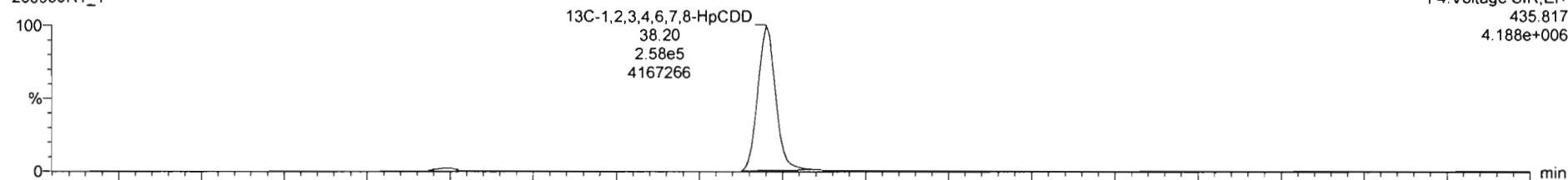


200930R1\_1

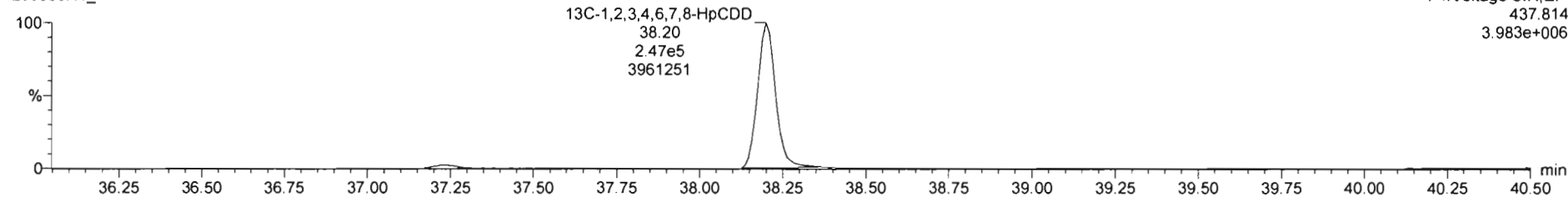


13C-1,2,3,4,6,7,8-HpCDD

200930R1\_1



200930R1\_1

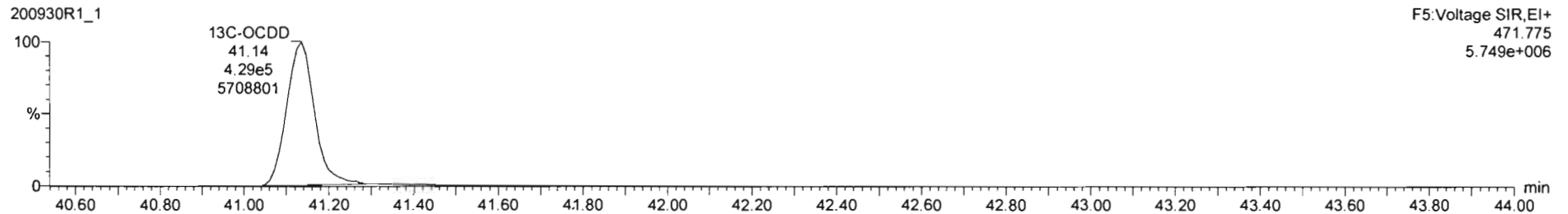
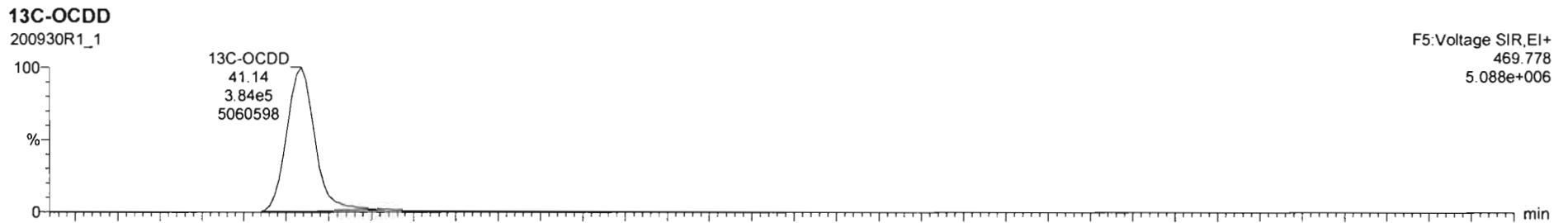
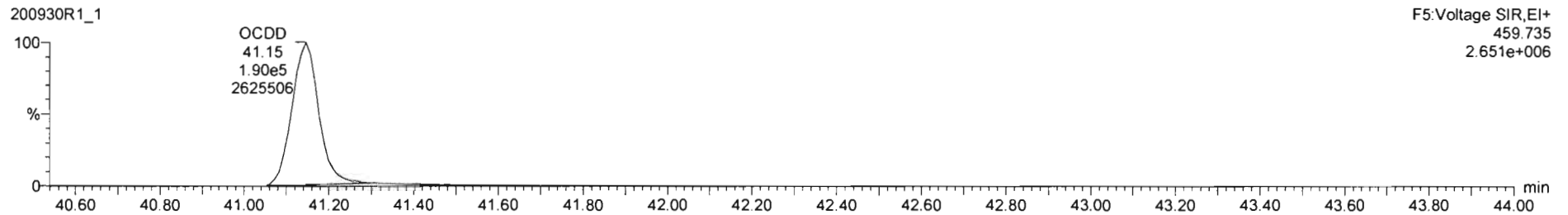
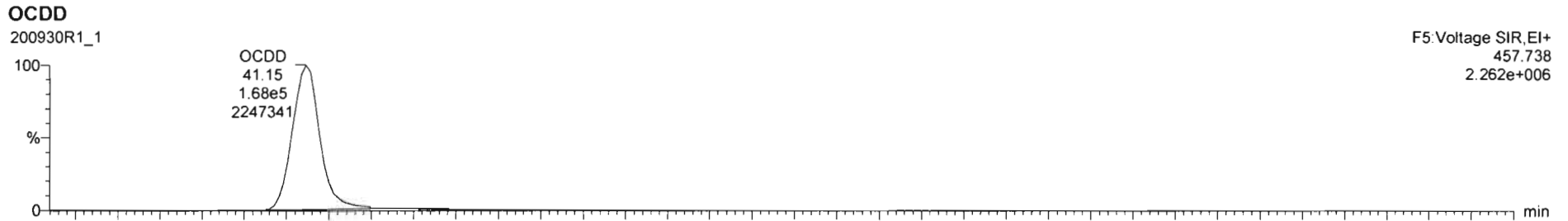


Dataset: Untitled

Last Altered: Wednesday, September 30, 2020 10:49:09 AM Pacific Daylight Time

Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

Name: 200930R1\_1, Date: 30-Sep-2020, Time: 09:59:37, ID: ST200930R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105



Dataset: Untitled

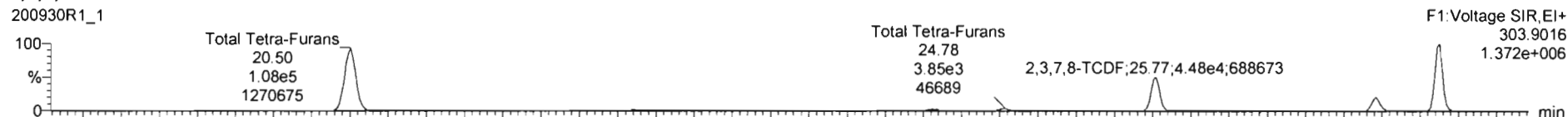
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Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

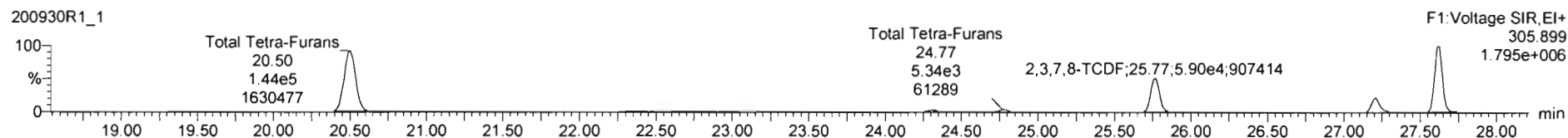
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### 2,3,7,8-TCDF

200930R1\_1

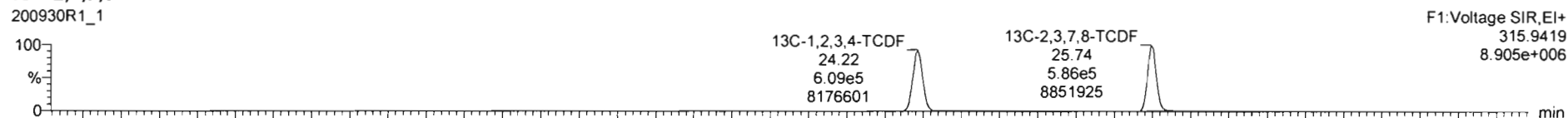


200930R1\_1

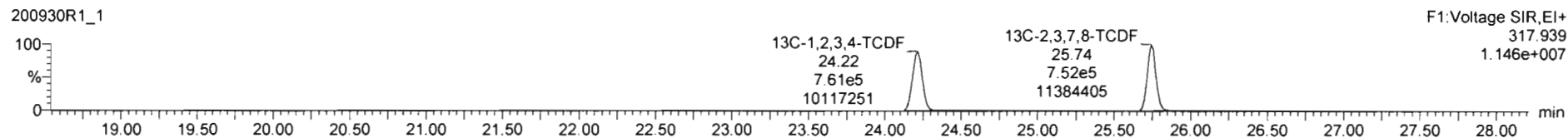


### 13C-2,3,7,8-TCDF

200930R1\_1

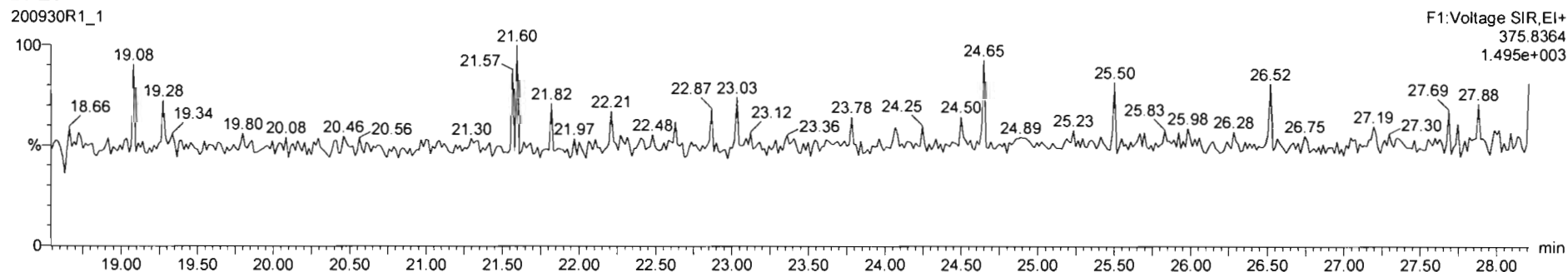


200930R1\_1



### DPE1

200930R1\_1



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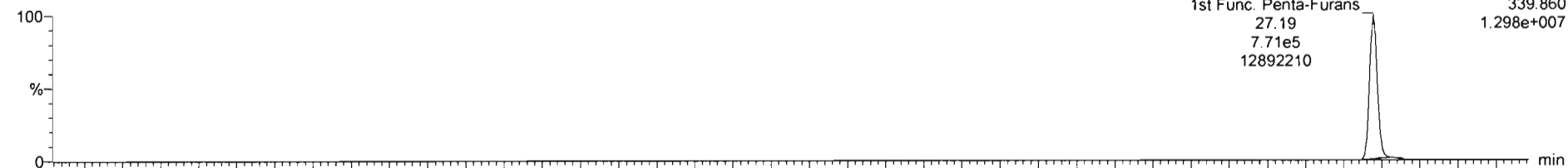
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Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

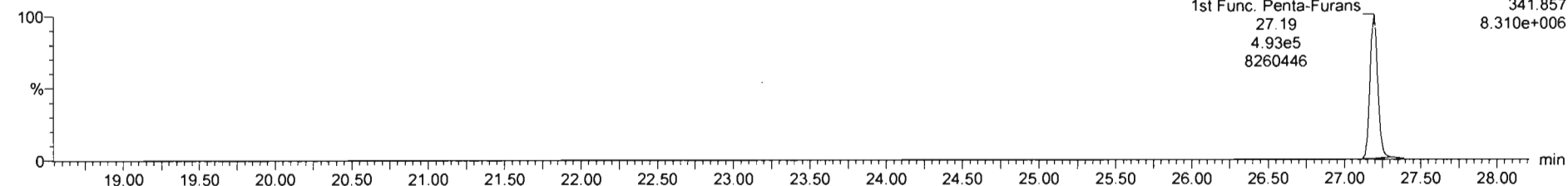
Name: 200930R1\_1, Date: 30-Sep-2020, Time: 09:59:37, ID: ST200930R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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200930R1\_1

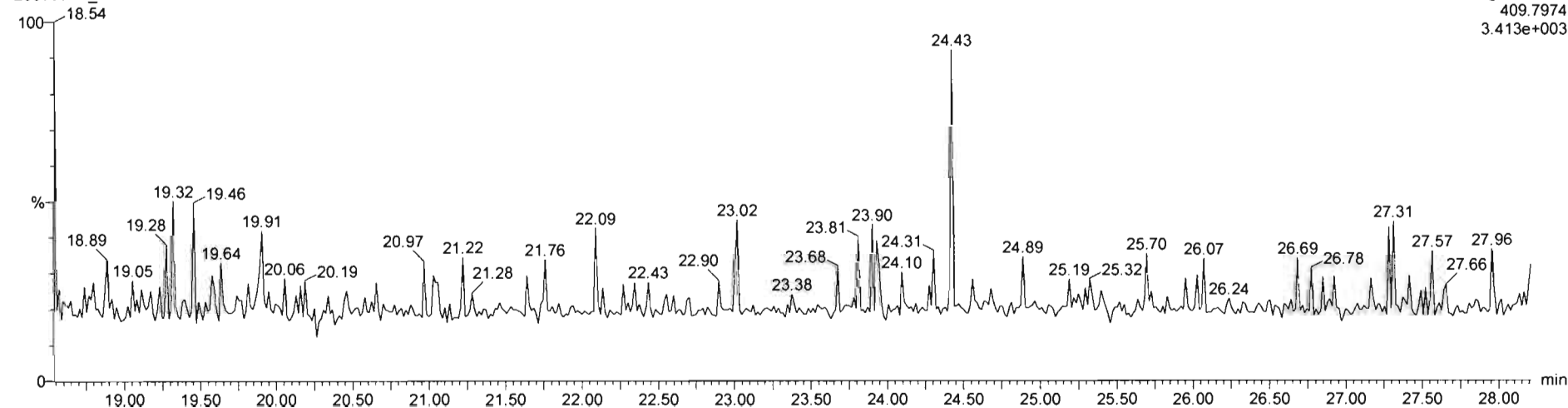


200930R1\_1



DPE6

200930R1\_1



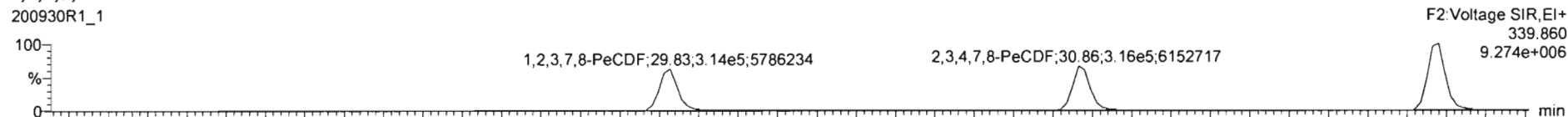
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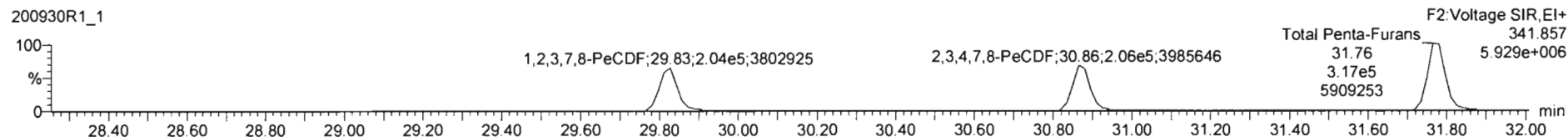
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**1,2,3,7,8-PeCDF**

200930R1\_1

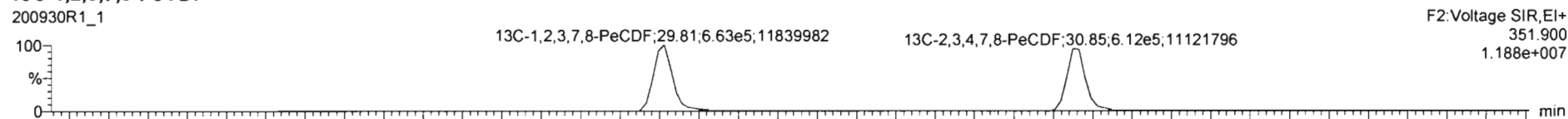


200930R1\_1

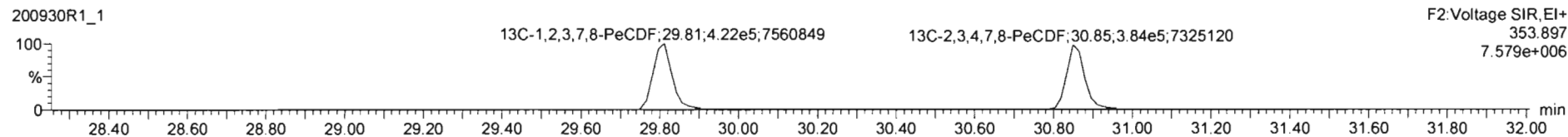


**13C-1,2,3,7,8-PeCDF**

200930R1\_1

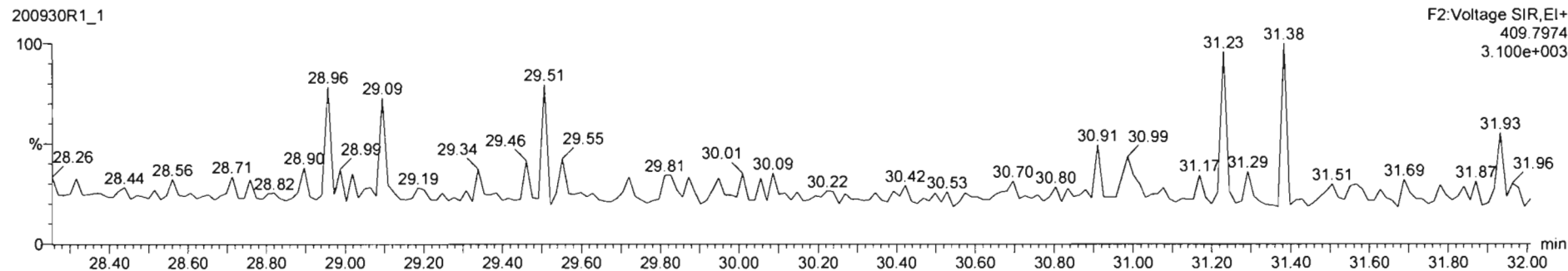


200930R1\_1



**DPE2**

200930R1\_1



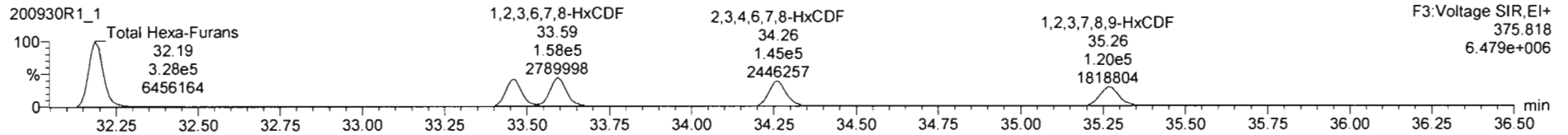
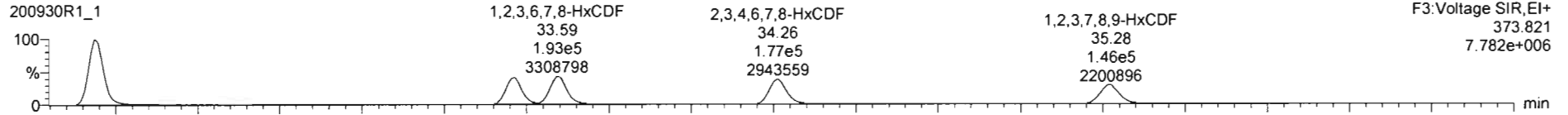


Dataset: Untitled

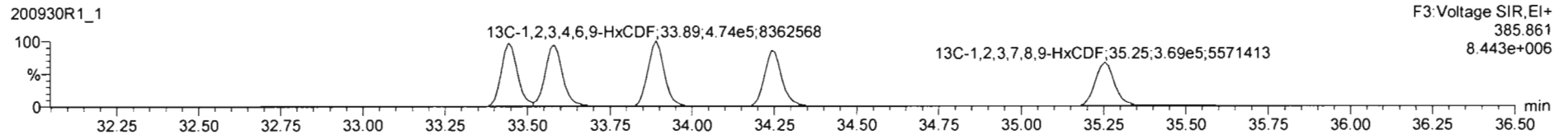
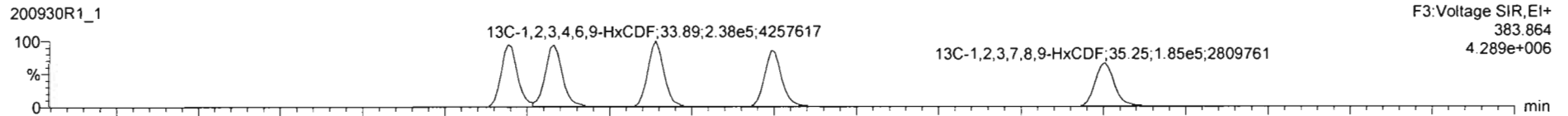
Last Altered: Wednesday, September 30, 2020 10:49:09 AM Pacific Daylight Time  
Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

Name: 200930R1\_1, Date: 30-Sep-2020, Time: 09:59:37, ID: ST200930R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

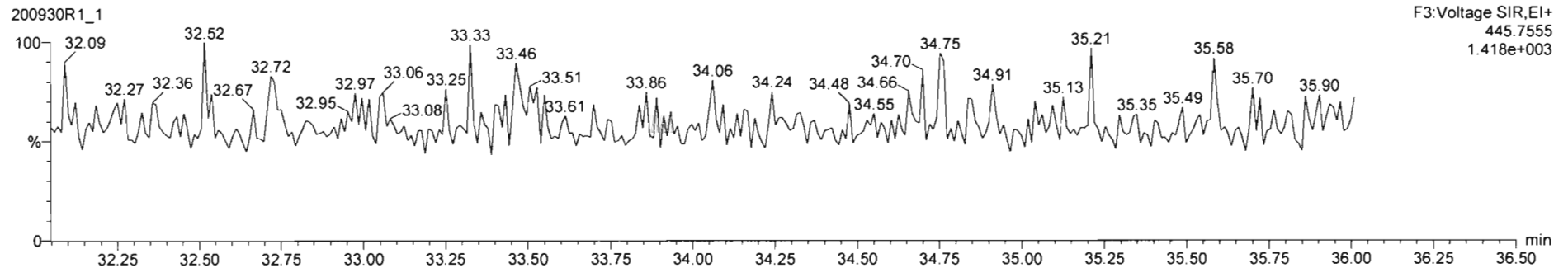
**1,2,3,4,7,8-HxCDF**

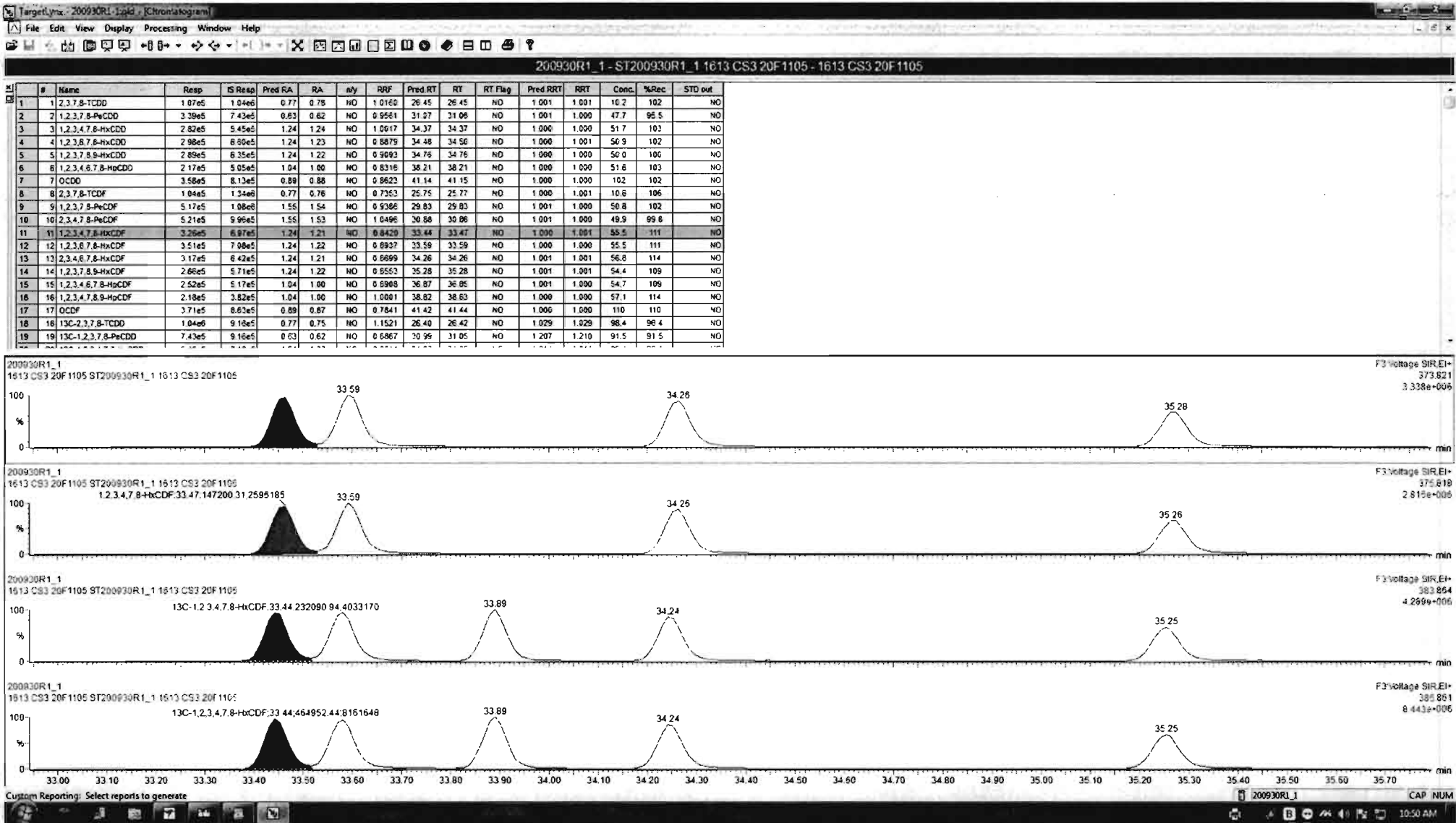


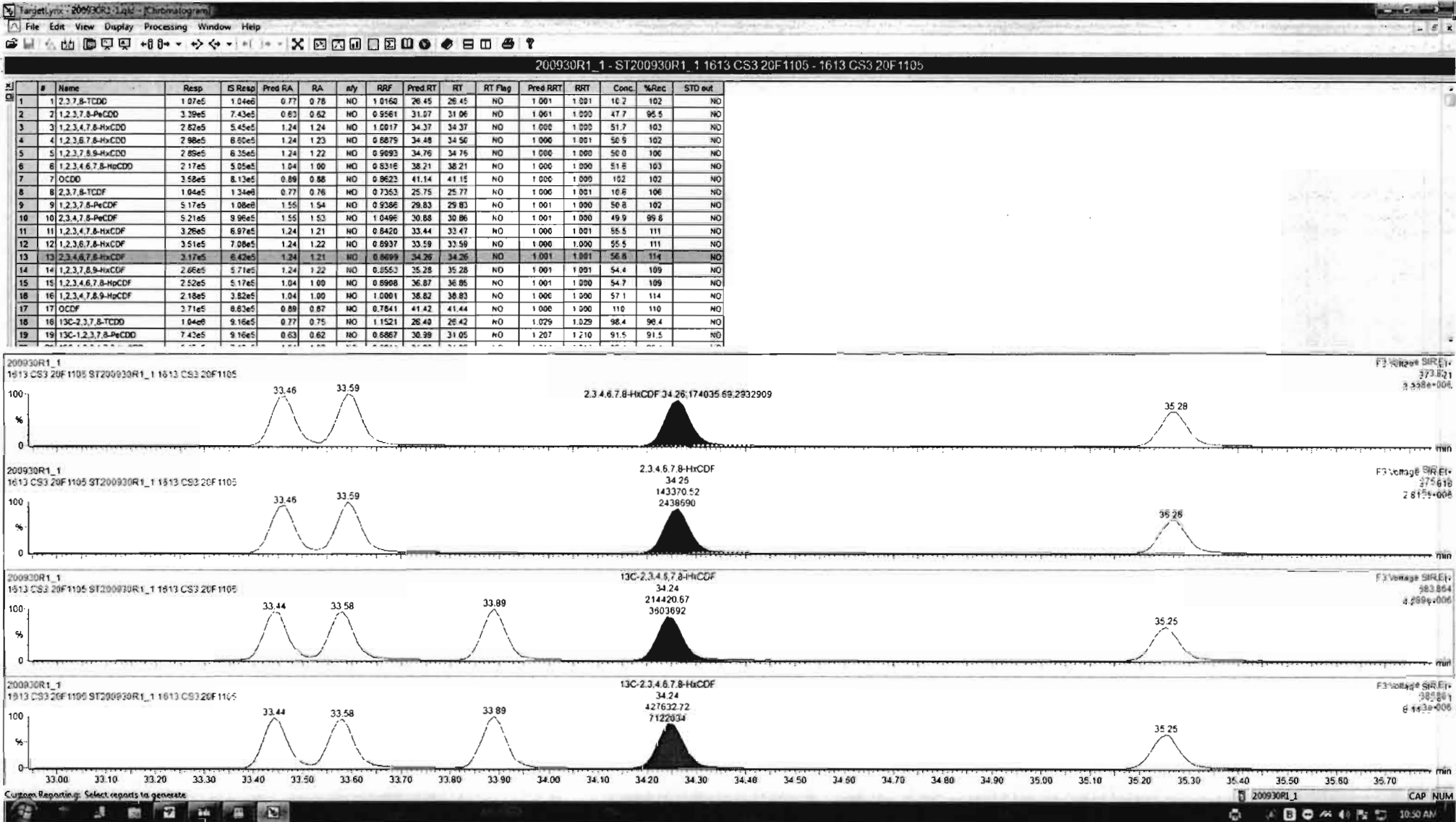
**13C-1,2,3,4,7,8-HxCDF**

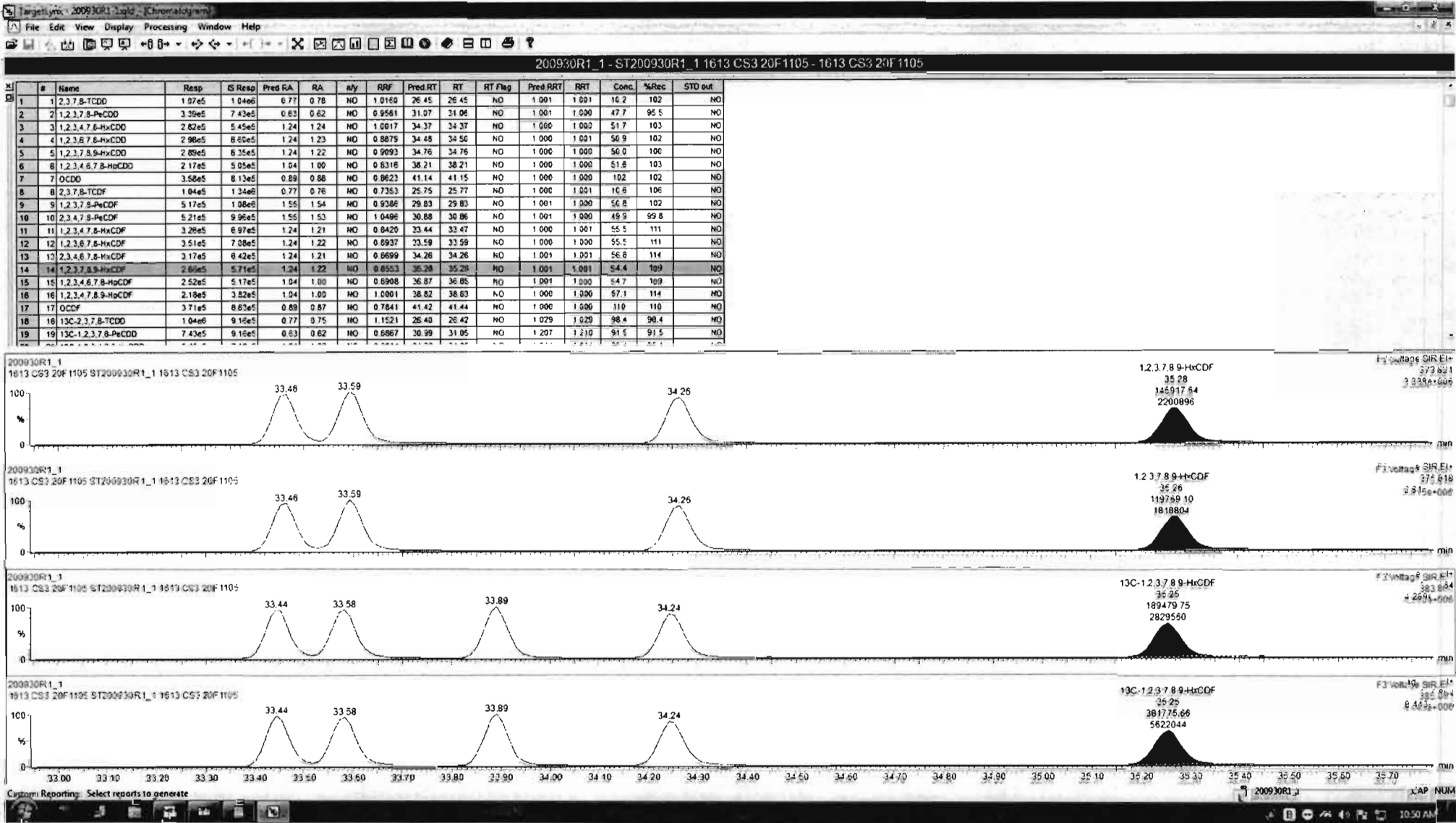


**DPE3**







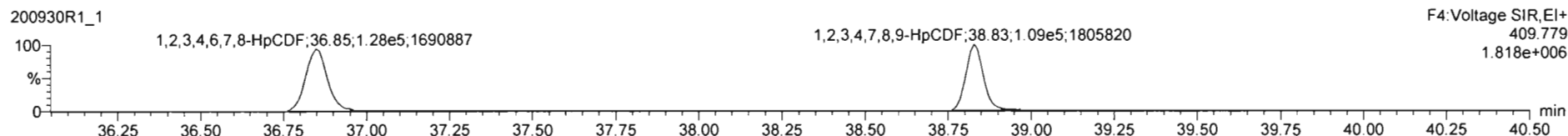
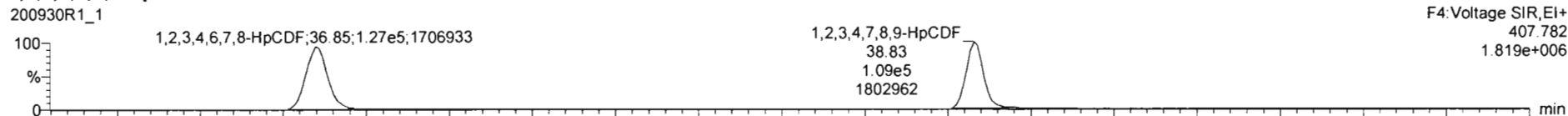


Dataset: Untitled

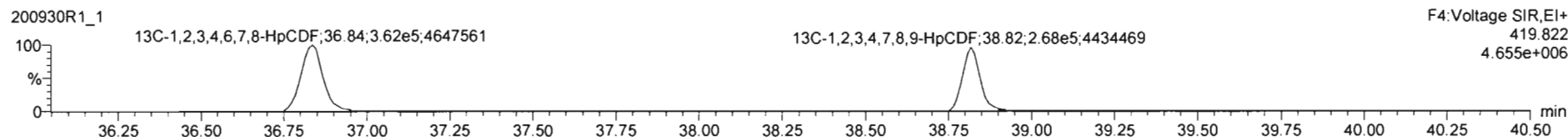
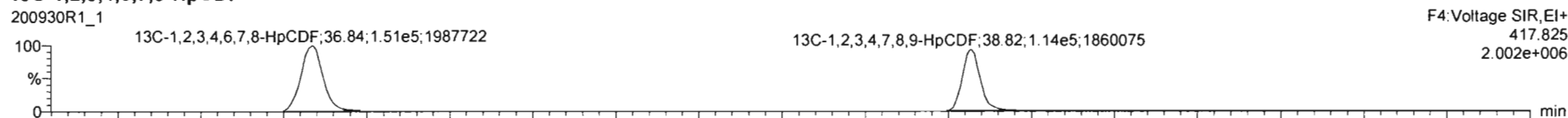
Last Altered: Wednesday, September 30, 2020 10:49:09 AM Pacific Daylight Time  
Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

Name: 200930R1\_1, Date: 30-Sep-2020, Time: 09:59:37, ID: ST200930R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

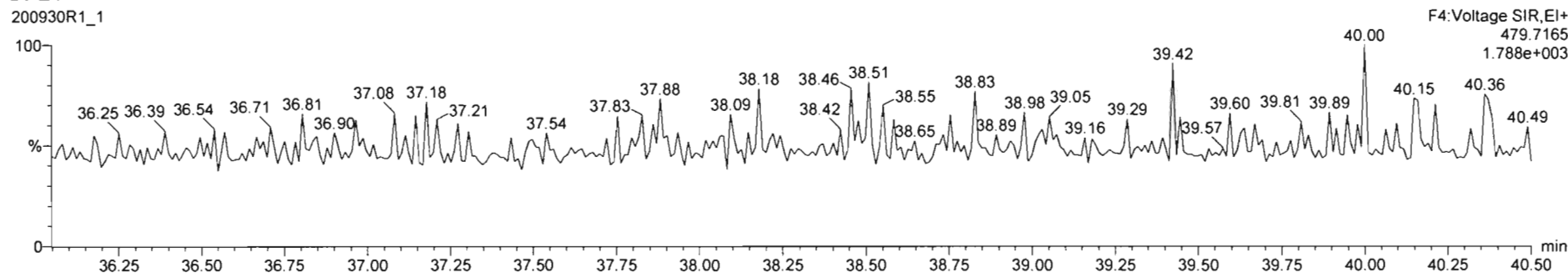
**1,2,3,4,6,7,8-HpCDF**

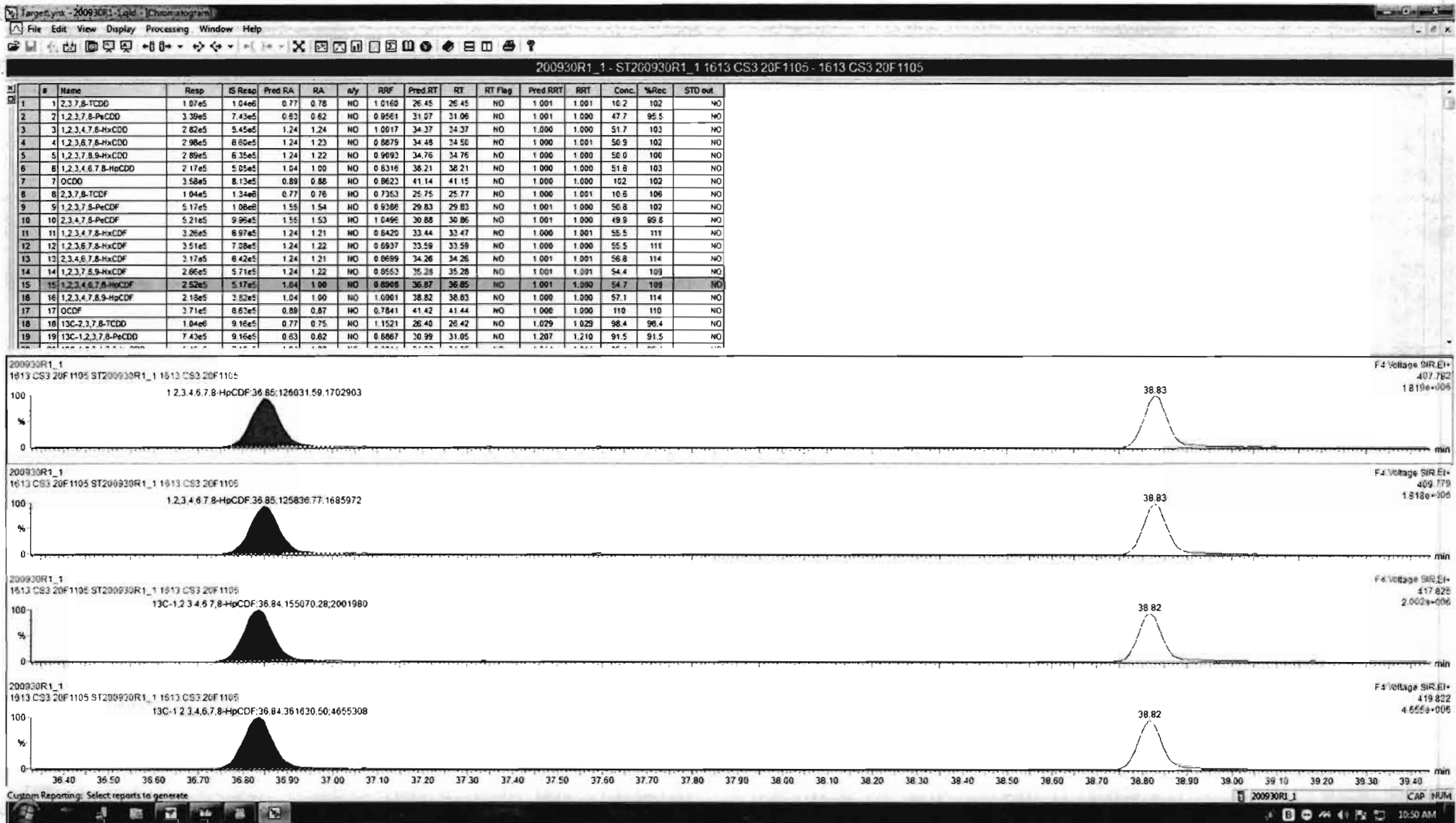


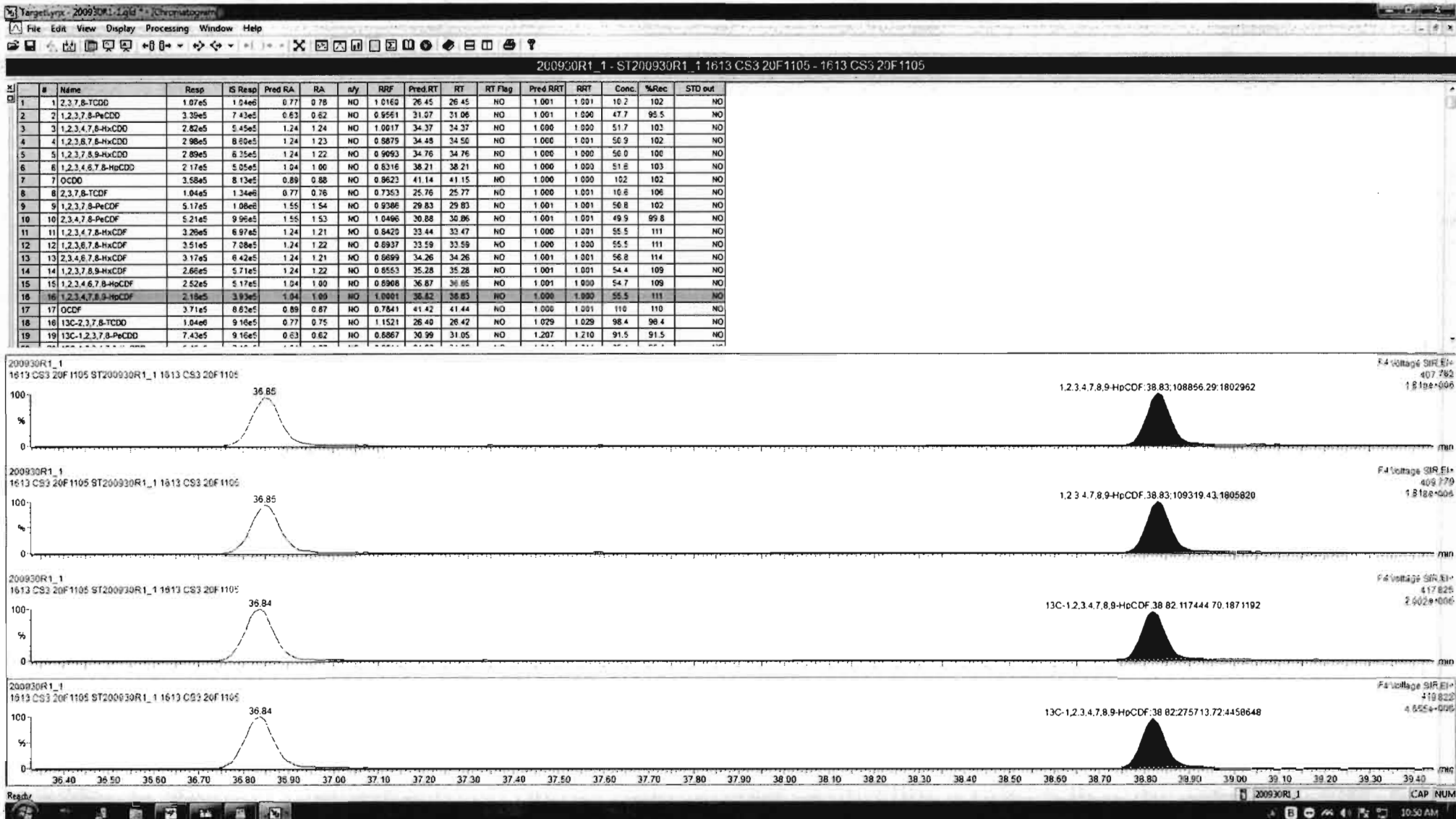
**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**



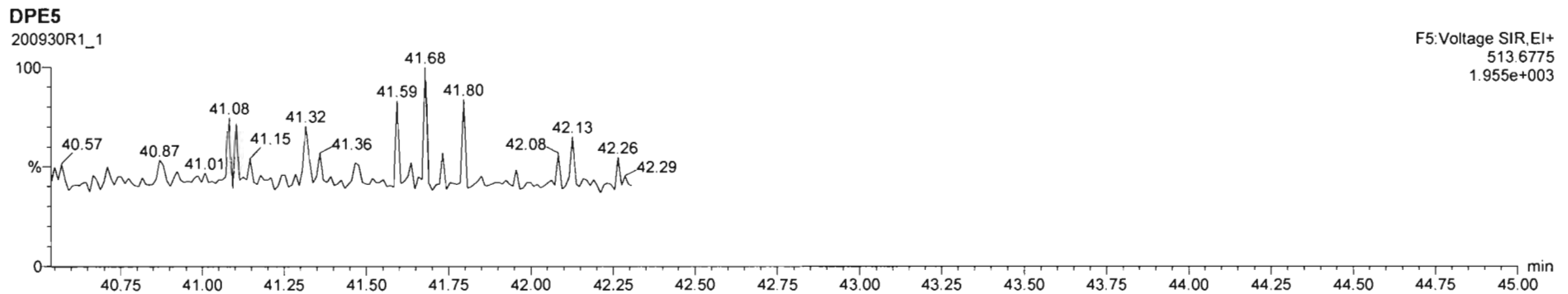
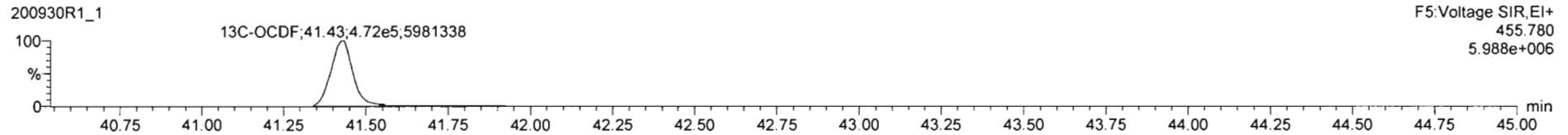
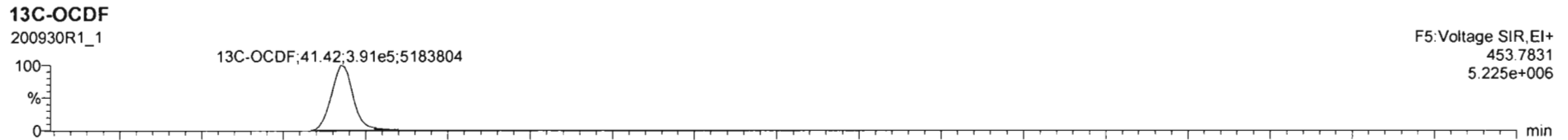
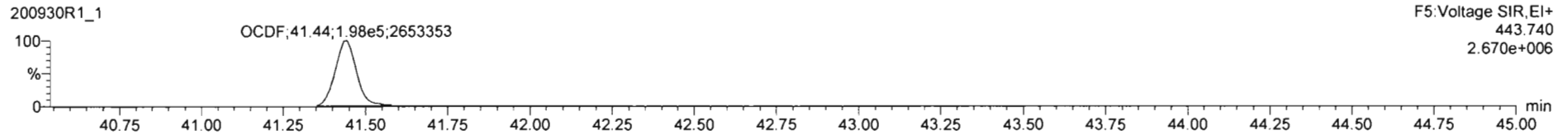
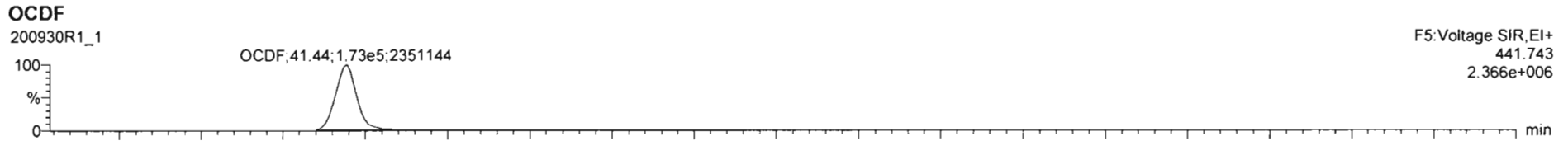




Dataset: Untitled

Last Altered: Wednesday, September 30, 2020 10:49:09 AM Pacific Daylight Time  
Printed: Wednesday, September 30, 2020 10:49:16 AM Pacific Daylight Time

Name: 200930R1\_1, Date: 30-Sep-2020, Time: 09:59:37, ID: ST200930R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105



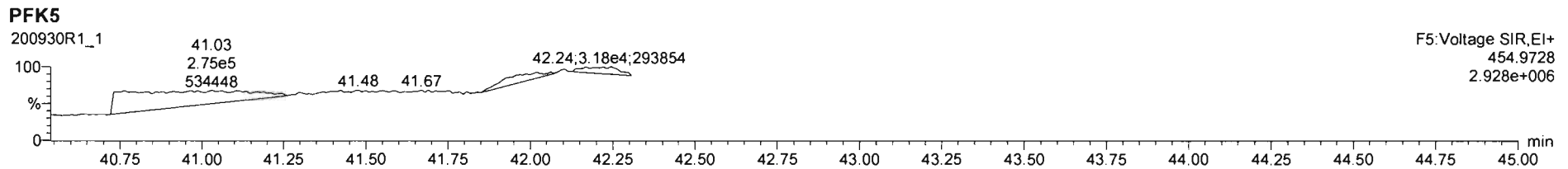
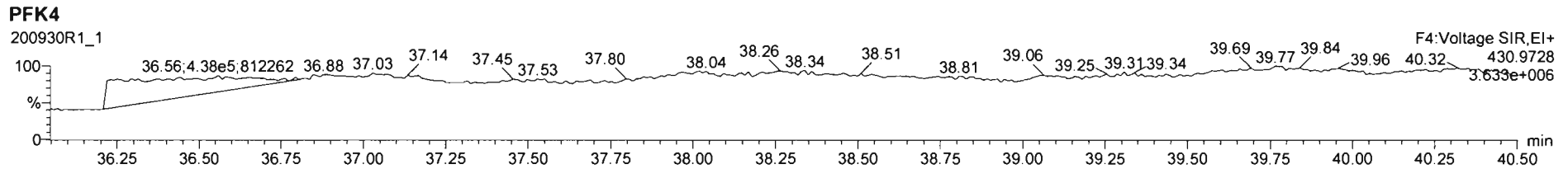
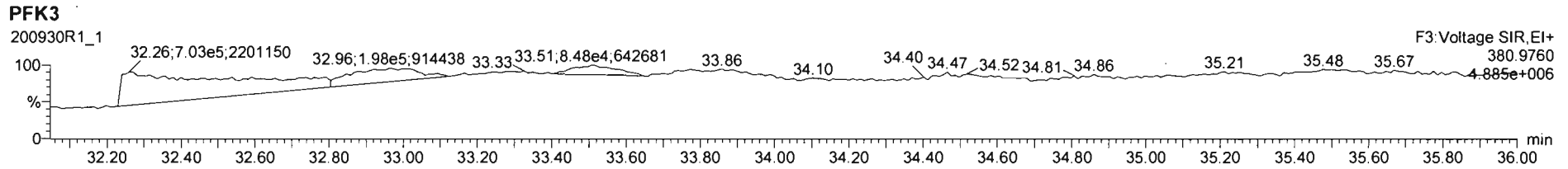
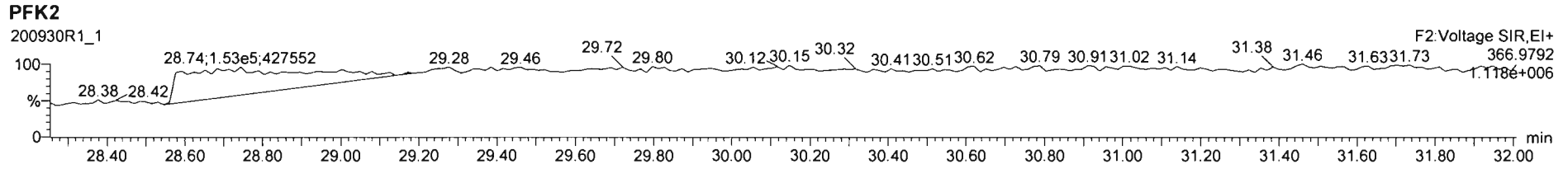
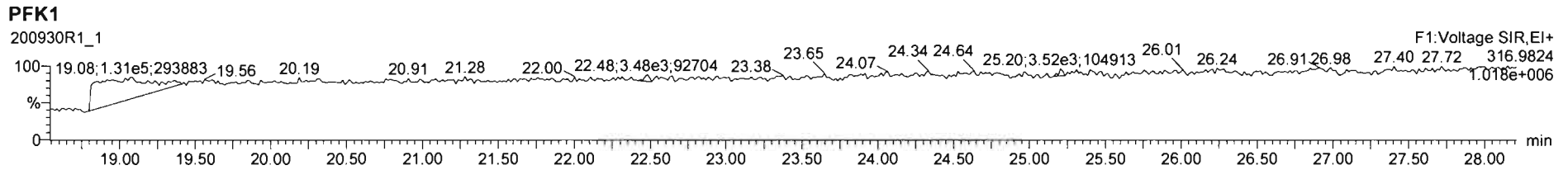


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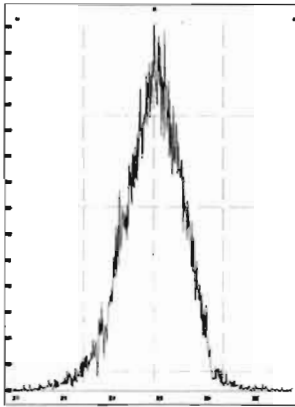
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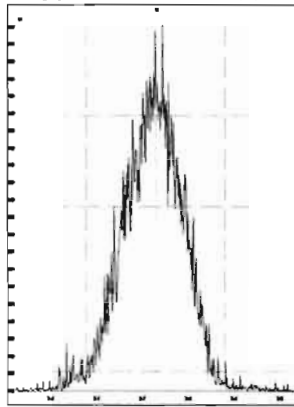
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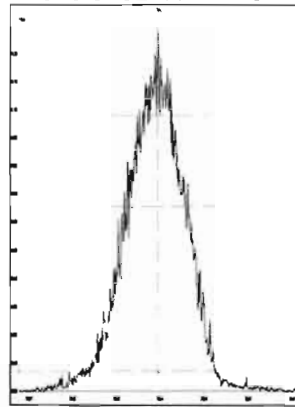
M 292.9824 R 11628



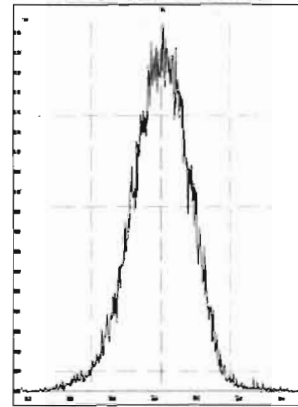
M 304.9824 R 11711



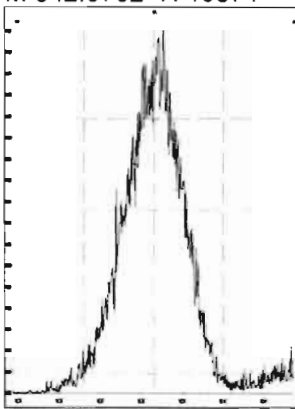
M 318.9792 R 11240



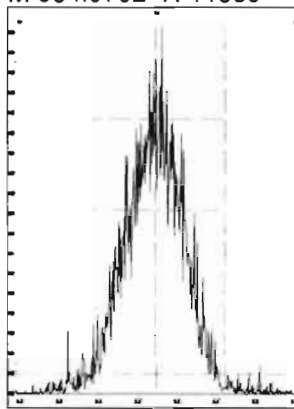
M 330.9792 R 10570



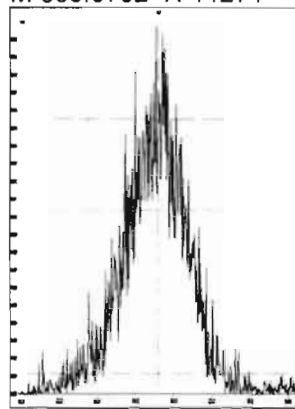
M 342.9792 R 10571



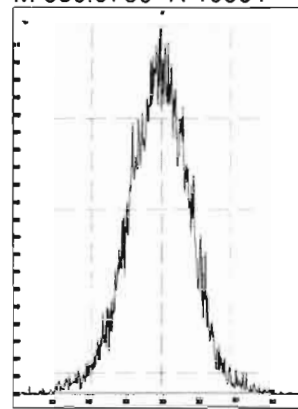
M 354.9792 R 11389



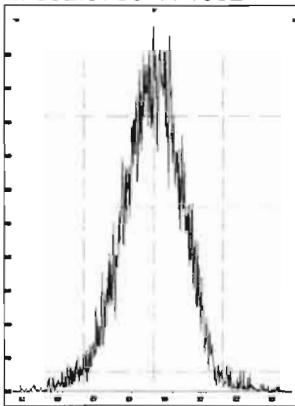
M 366.9792 R 11271



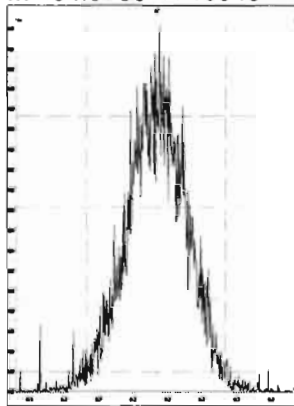
M 380.9760 R 10351



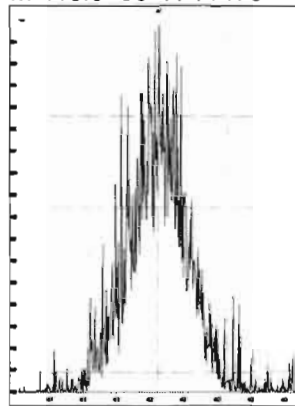
M 392.9760 R 10827



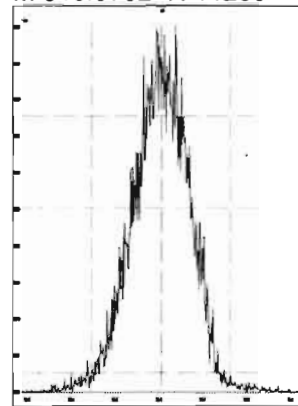
M 404.9760 R 10845



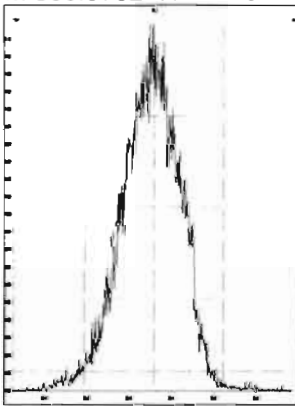
M 416.9760 R 11473



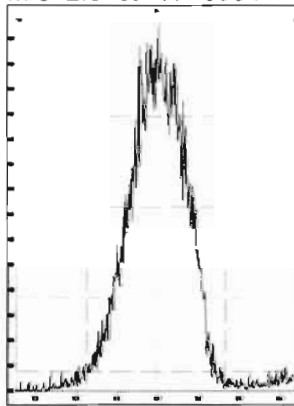
M 318.9792 R 11289



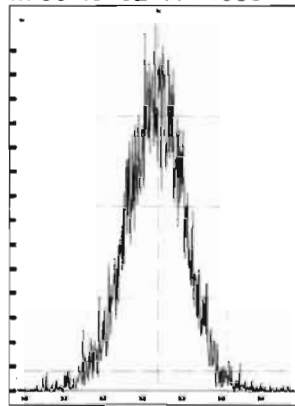
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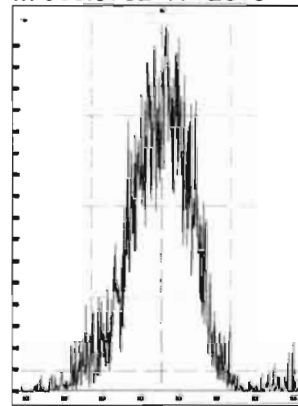
M 342.9792 R 10964



M 354.9792 R 11358

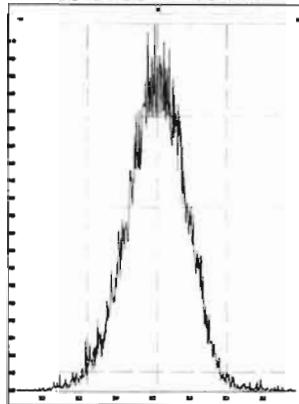


M 366.9792 R 12078

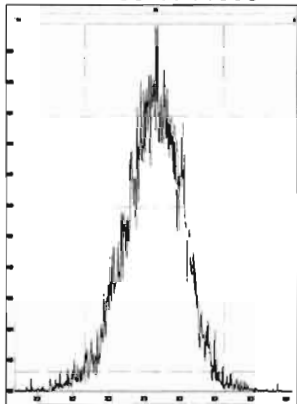


Printed: Wednesday, September 30, 2020 21:59:15 Pacific Daylight Time

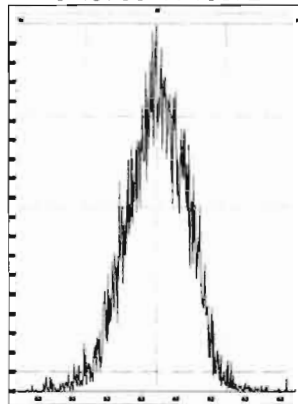
M 380.9760 R 10441



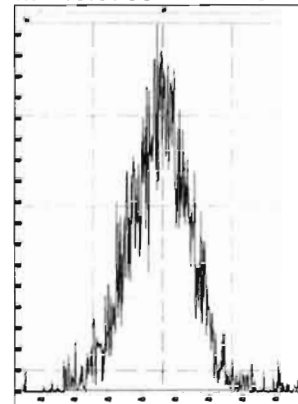
M 392.9760 R 11569



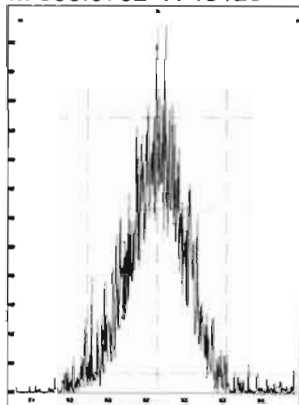
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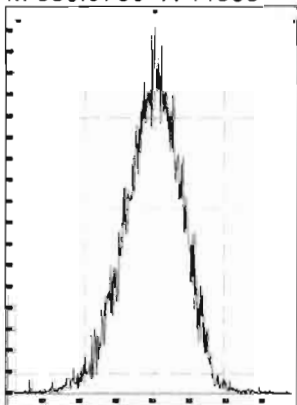
M 416.9760 R 12470



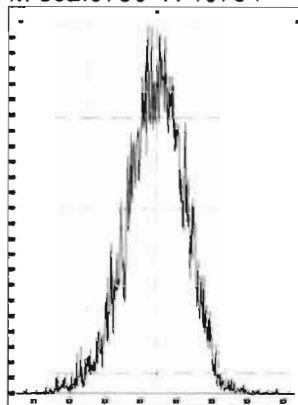
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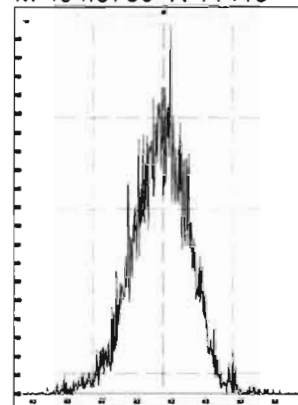
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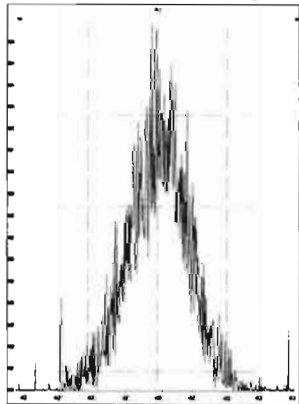
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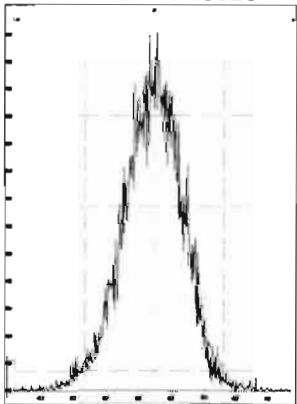
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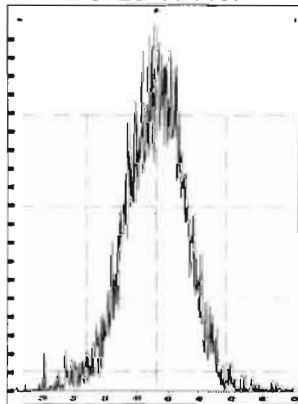
M 416.9760 R 12380



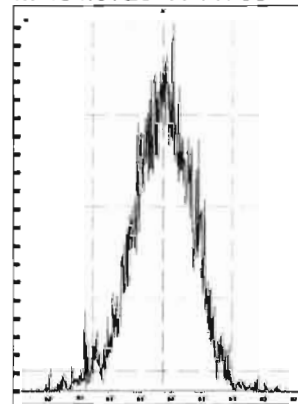
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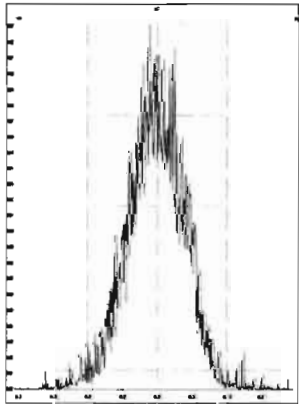
M 442.9728 R 11628



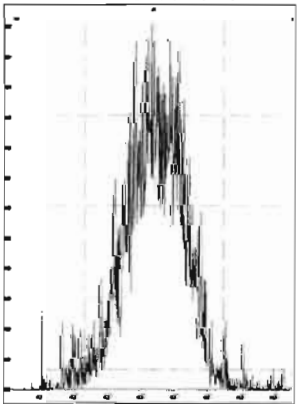
M 454.9728 R 11753



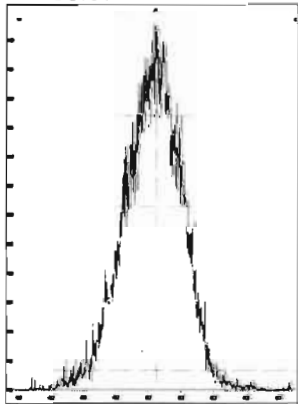
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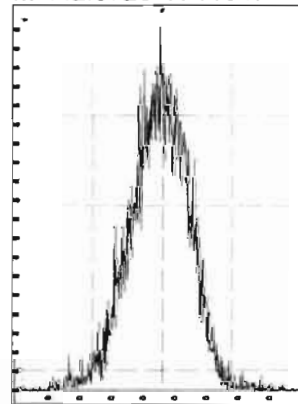
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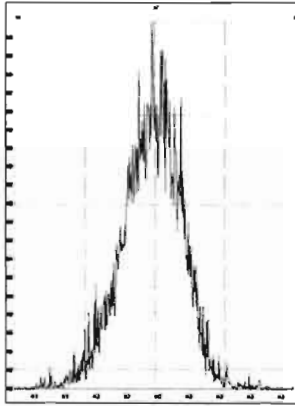
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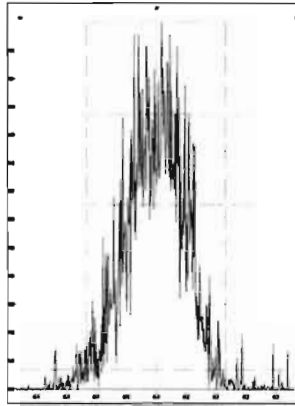
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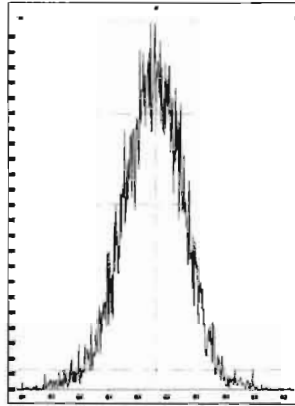
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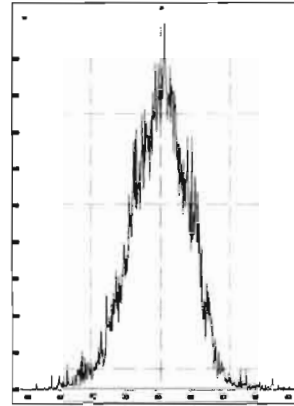
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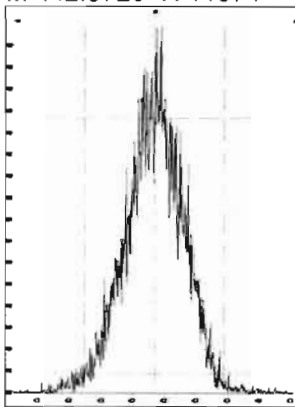
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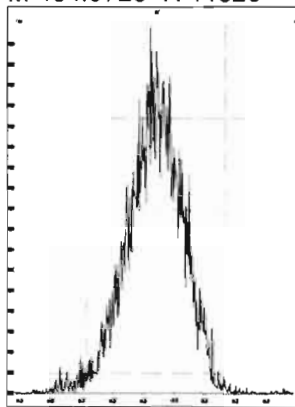
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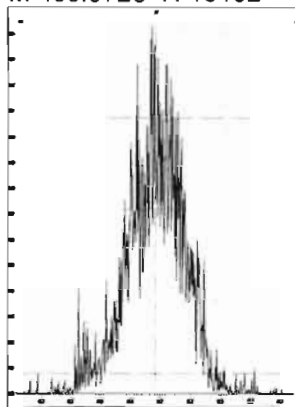
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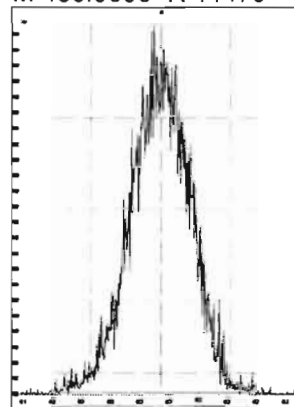
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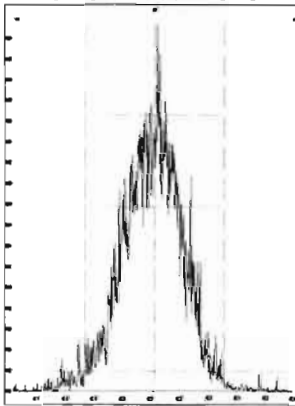
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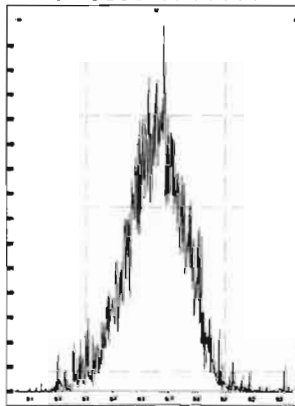
M 480.9696 R 11479



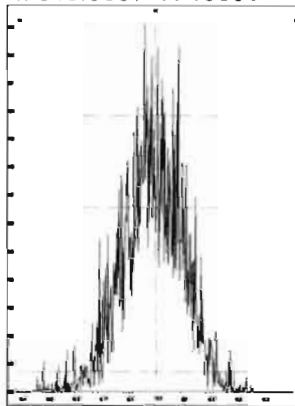
M 492.9696 R 11315



M 504.9696 R 11111



M 516.9697 R 13590



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST200930R2-1

**Reviewed By:** HZ 10-1-2020

*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"/>	<input type="checkbox"/>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Verification Std. named correctly?</b> (ST-Year-Month-Day-VG ID)	<input 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>V</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- 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%**

NA

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

**Comments:**

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-2.qld

Last Altered: Thursday, October 01, 2020 07:23:39 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:24:29 Pacific Daylight Time

*GRB* *10/01/2020*  
*H2 10-1-2020*

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R2\_2, Date: 30-Sep-2020, Time: 22:42:53, ID: ST200930R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	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	1.11e5	1.15e6	0.76	NO	1.02	26.45	26.43	NO	1.001	1.001	9.5125	95.1	NO
2	2 1,2,3,7,8-PeCDD	4.18e5	9.06e5	0.61	NO	0.956	31.07	31.06	NO	1.001	1.000	48.311	96.6	NO
3	3 1,2,3,4,7,8-HxCDD	3.74e5	7.09e5	1.25	NO	1.00	34.36	34.37	NO	1.000	1.001	52.626	105	NO
4	4 1,2,3,6,7,8-HxCDD	3.77e5	8.02e5	1.26	NO	0.888	34.48	34.49	NO	1.000	1.000	52.886	106	NO
5	5 1,2,3,7,8,9-HxCDD	3.73e5	7.68e5	1.25	NO	0.909	34.75	34.76	NO	1.000	1.001	53.382	107	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.96e5	6.62e5	1.02	NO	0.832	38.21	38.21	NO	1.000	1.000	53.650	107	NO
7	7 OCDD	5.01e5	1.10e6	0.87	NO	0.862	41.14	41.15	NO	1.000	1.000	105.61	106	NO
8	8 2,3,7,8-TCDF	1.18e5	1.48e6	0.73	NO	0.735	25.76	25.76	NO	1.000	1.001	10.831	108	NO
9	9 1,2,3,7,8-PeCDF	6.22e5	1.25e6	1.55	NO	0.939	29.82	29.81	NO	1.001	1.001	53.024	106	NO
10	10 2,3,4,7,8-PeCDF	6.56e5	1.20e6	1.56	NO	1.05	30.88	30.86	NO	1.001	1.000	52.244	104	NO
11	11 1,2,3,4,7,8-HxCDF	4.22e5	8.97e5	1.19	NO	0.842	33.44	33.45	NO	1.000	1.000	55.941	112	NO
12	12 1,2,3,6,7,8-HxCDF	4.56e5	8.96e5	1.21	NO	0.894	33.58	33.59	NO	1.000	1.001	56.888	114	NO
13	13 2,3,4,6,7,8-HxCDF	4.26e5	8.66e5	1.21	NO	0.870	34.26	34.25	NO	1.001	1.000	56.579	113	NO
14	14 1,2,3,7,8,9-HxCDF	3.62e5	7.58e5	1.24	NO	0.855	35.27	35.26	NO	1.001	1.000	55.885	112	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.34e5	6.84e5	1.00	NO	0.891	36.86	36.85	NO	1.001	1.001	54.754	110	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.09e5	5.40e5	0.99	NO	1.00	38.82	38.83	NO	1.000	1.000	57.328	115	NO
17	17 OCDF	5.25e5	1.17e6	0.87	NO	0.784	41.43	41.44	NO	1.000	1.000	114.04	114	NO
18	18 13C-2,3,7,8-TCDD	1.15e6	1.01e6	0.78	NO	1.15	26.40	26.42	NO	1.029	1.029	98.676	98.7	NO
19	19 13C-1,2,3,7,8-PeCDD	9.06e5	1.01e6	0.63	NO	0.887	30.99	31.05	NO	1.207	1.210	100.86	101	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.09e5	9.20e5	1.27	NO	0.801	34.35	34.35	NO	1.014	1.014	96.152	96.2	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.02e5	9.20e5	1.27	NO	0.892	34.48	34.48	NO	1.018	1.018	97.803	97.8	NO
22	22 13C-1,2,3,7,8,9-HxCDD	7.68e5	9.20e5	1.25	NO	0.882	34.74	34.74	NO	1.025	1.025	94.669	94.7	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.62e5	9.20e5	1.06	NO	0.719	38.17	38.20	NO	1.127	1.128	100.17	100	NO
24	24 13C-OCDD	1.10e6	9.20e5	0.90	NO	0.563	41.10	41.14	NO	1.213	1.214	212.35	106	NO
25	25 13C-2,3,7,8-TCDF	1.48e6	1.44e6	0.77	NO	1.01	25.75	25.74	NO	1.003	1.003	101.90	102	NO
26	26 13C-1,2,3,7,8-PeCDF	1.25e6	1.44e6	1.57	NO	0.814	29.75	29.80	NO	1.159	1.161	106.27	106	NO
27	27 13C-2,3,4,7,8-PeCDF	1.20e6	1.44e6	1.60	NO	0.768	30.79	30.85	NO	1.200	1.202	107.91	108	NO
28	28 13C-1,2,3,4,7,8-HxCDF	8.97e5	9.20e5	0.50	NO	0.993	33.43	33.44	NO	0.987	0.987	98.223	98.2	NO
29	29 13C-1,2,3,6,7,8-HxCDF	8.96e5	9.20e5	0.51	NO	0.990	33.57	33.57	NO	0.991	0.991	98.385	98.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	8.66e5	9.20e5	0.50	NO	0.944	34.24	34.24	NO	1.011	1.011	99.742	99.7	NO
31	31 13C-1,2,3,7,8,9-HxCDF	7.58e5	9.20e5	0.51	NO	0.842	35.26	35.25	NO	1.041	1.041	97.976	98.0	NO

Dataset: U:\VG12.PRO\Results\200930R2\200930R2-2.qld

Last Altered: Thursday, October 01, 2020 07:23:39 Pacific Daylight Time

Printed: Thursday, October 01, 2020 07:24:29 Pacific Daylight Time

Name: 200930R2\_2, Date: 30-Sep-2020, Time: 22:42:53, ID: ST200930R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# 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	6.84e5	9.20e5	0.44	NO	0.687	36.84	36.83	NO	1.087	1.087	108.25	108	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.40e5	9.20e5	0.44	NO	0.555	38.79	38.82	NO	1.145	1.146	105.81	106	NO
34	34 13C-OCDF	1.17e6	9.20e5	0.88	NO	0.608	41.38	41.43	NO	1.221	1.223	209.86	105	NO
35	35 37Cl-2,3,7,8-TCDD	1.22e5	1.01e6			1.18	26.44	26.43	NO	1.030	1.030	10.205	102	NO
36	36 13C-1,2,3,4-TCDD	1.01e6	1.01e6	0.77	NO	1.00	25.74	25.67	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.44e6	1.44e6	0.79	NO	1.00	24.31	24.20	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	9.20e5	9.20e5	0.51	NO	1.00	33.92	33.88	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Thursday, October 01, 2020 09:07:12 Pacific Daylight Time

Printed: Thursday, October 01, 2020 09:07:46 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

Calibration: U:\VG12.PRO\CurveDB\1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

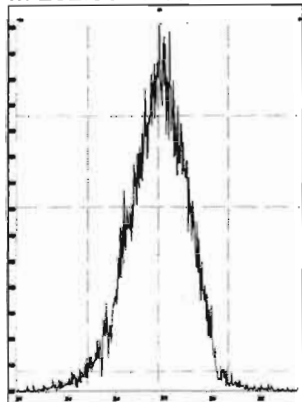
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200930R2_1	SOLVENT BLANK	30-Sep-20	21:59:20
2	200930R2_2	ST200930R2_1 1613 CS3 20F1105	30-Sep-20	22:42:53
3	200930R2_3	TCDF CPSM	30-Sep-20	23:26:32
4	200930R2_4	SOLVENT BLANK	01-Oct-20	00:10:11
5	200930R2_5	2001995-06 PDI-171SC-A-01-02-200521 10	01-Oct-20	00:53:50
6	200930R2_6	2001995-07 PDI-171SC-A-02-03-200521 10	01-Oct-20	01:37:27
7	200930R2_7	2001995-08 PDI-171SC-A-03-04-200521 10	01-Oct-20	02:21:07
8	200930R2_8	2001995-09 PDI-171SC-A-04-05-200521 10	01-Oct-20	03:04:51
9	200930R2_9	2001995-10 PDI-171SC-A-05-06-200521 10	01-Oct-20	03:48:30
10	200930R2_10	2001995-11 PDI-171SC-A-06-07-200521 10	01-Oct-20	04:32:09
11	200930R2_11	2001995-12 PDI-173SC-A-01-02-200521 10	01-Oct-20	05:15:54
12	200930R2_12	2001995-13 PDI-173SC-A-02-03-200521 10	01-Oct-20	05:59:34
13	200930R2_13	2001995-14 PDI-173SC-A-03-04-200521 10	01-Oct-20	06:43:13
14	200930R2_14	2001995-15 PDI-174SC-A-01-02-200521 10	01-Oct-20	07:26:57
15	200930R2_15	2001995-16 PDI-174SC-A-02-03-200521 10	01-Oct-20	08:10:36

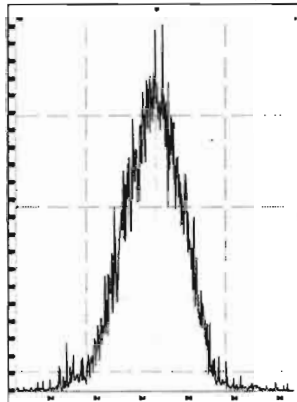


Printed: Wednesday, September 30, 2020 21:59:15 Pacific Daylight Time

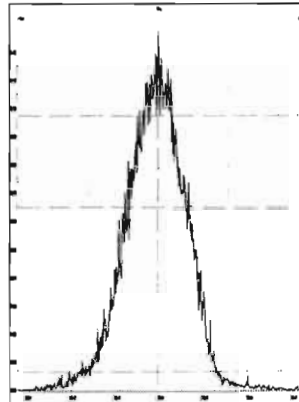
M 292.9824 R 11628



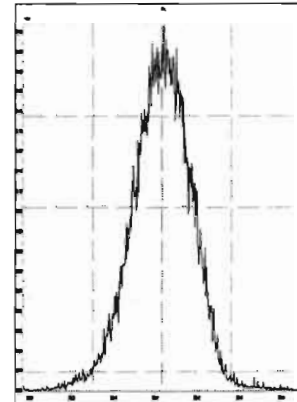
M 304.9824 R 11711



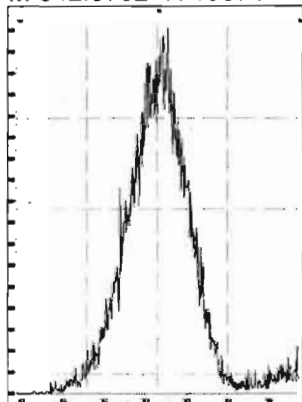
M 318.9792 R 11240



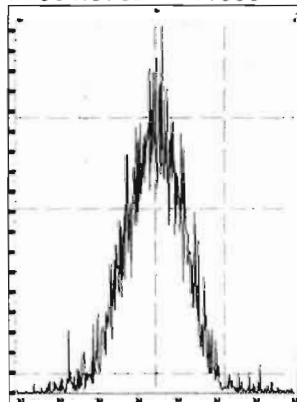
M 330.9792 R 10570



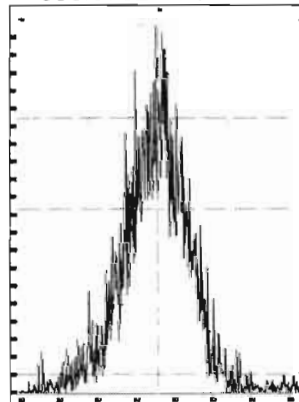
M 342.9792 R 10571



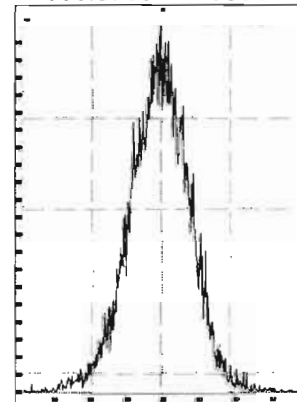
M 354.9792 R 11389



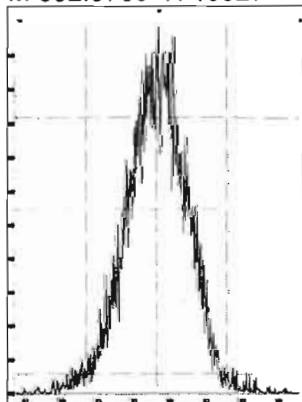
M 366.9792 R 11271



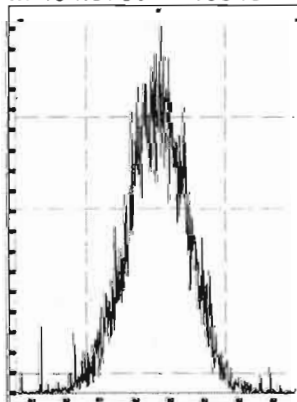
M 380.9760 R 10351



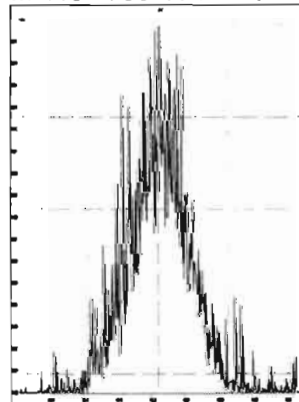
M 392.9760 R 10827



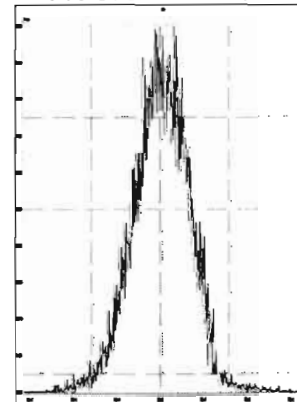
M 404.9760 R 10845



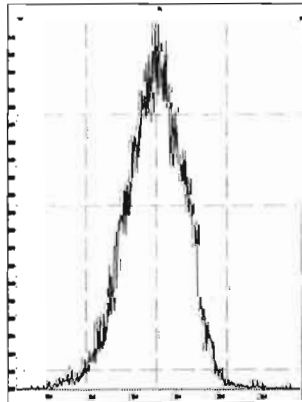
M 416.9760 R 11473



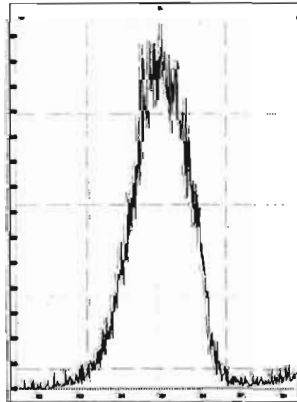
M 318.9792 R 11289



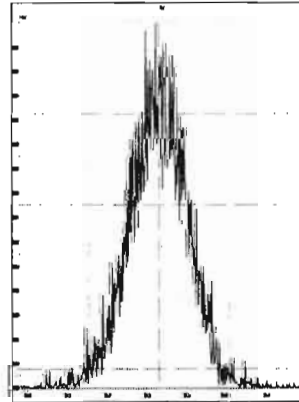
M 330.9792 R 11418



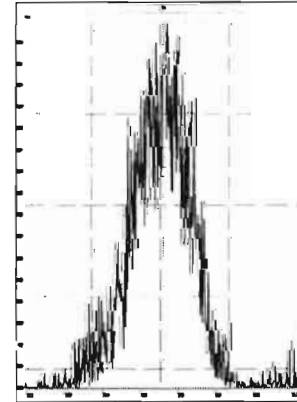
M 342.9792 R 10964



M 354.9792 R 11358

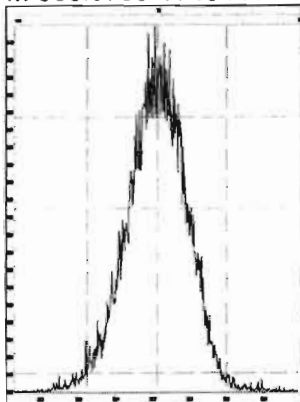


M 366.9792 R 12078

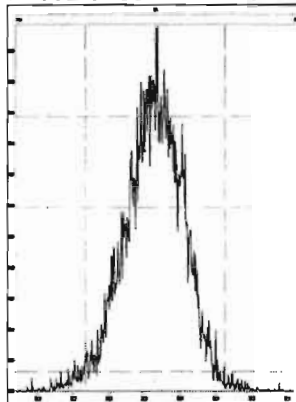


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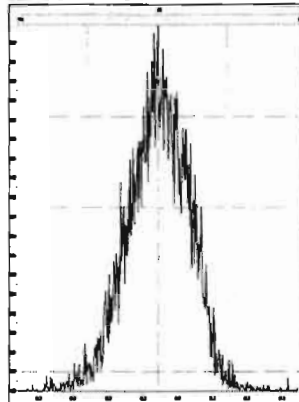
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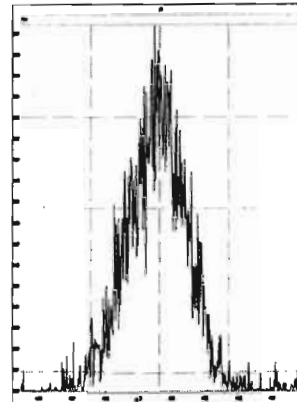
M 392.9760 R 11569



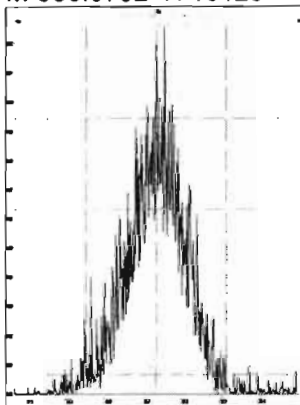
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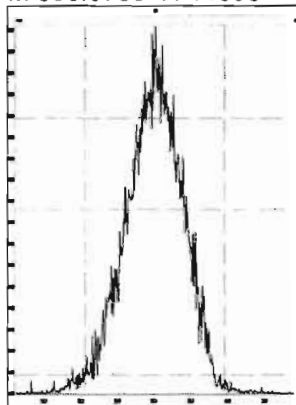
M 416.9760 R 12470



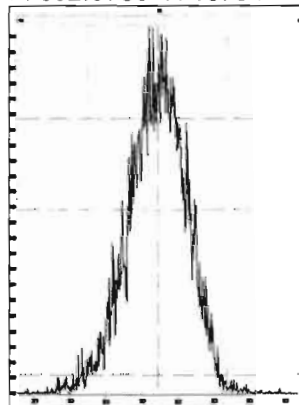
M 366.9792 R 13123



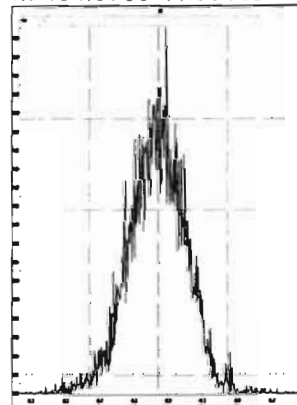
M 380.9760 R 11393



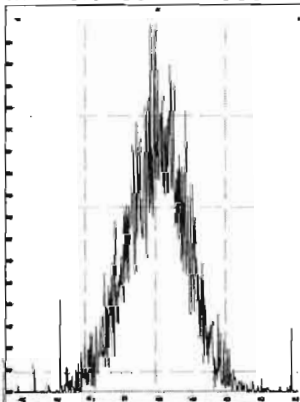
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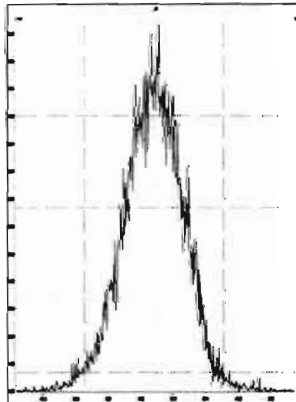
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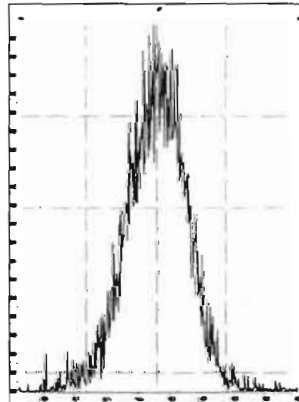
M 416.9760 R 12380



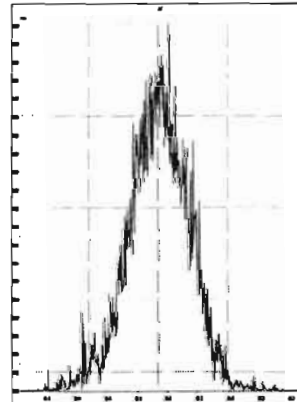
M 430.9728 R 10829



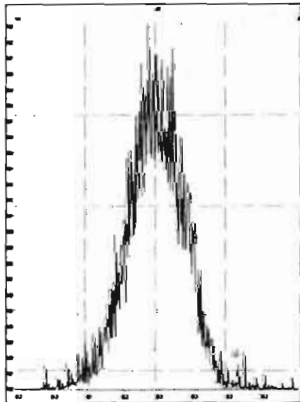
M 442.9728 R 11628



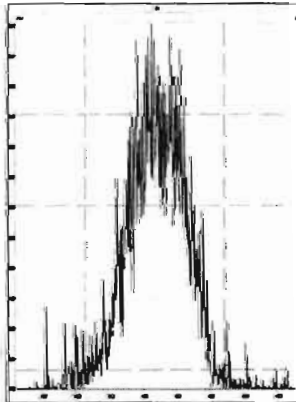
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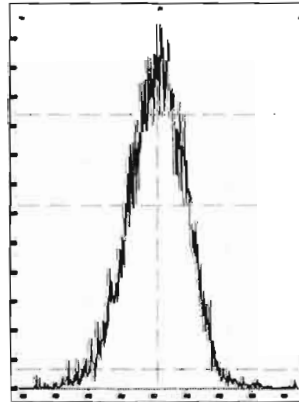
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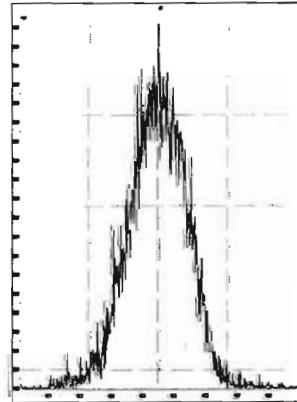
M 416.9760 R 12828



M 430.9728 R 11852

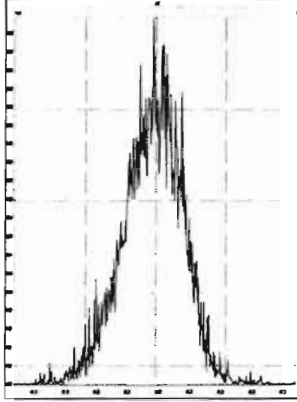


M 442.9728 R 11647

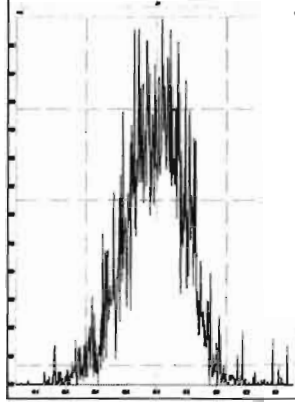


Printed: Wednesday, September 30, 2020 21:59:15 Pacific Daylight Time

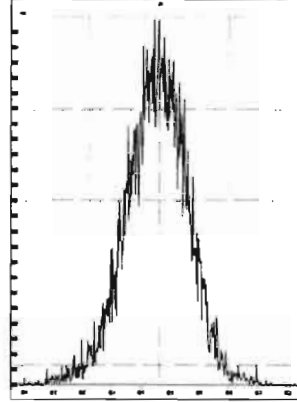
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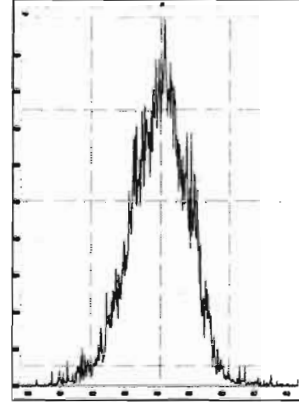
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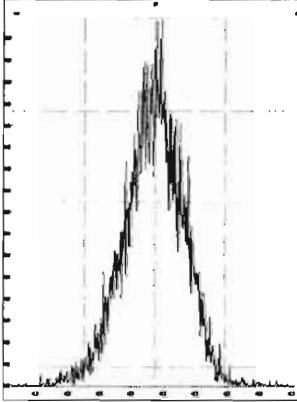
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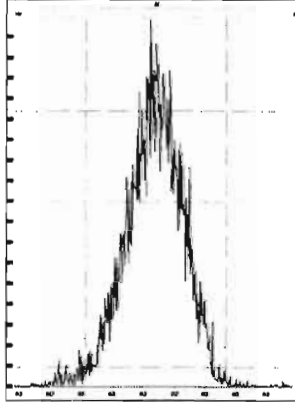
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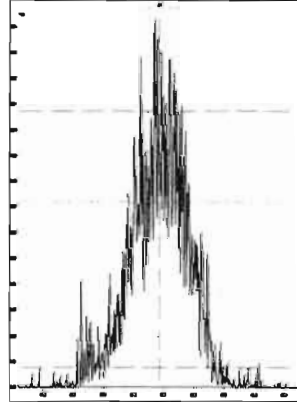
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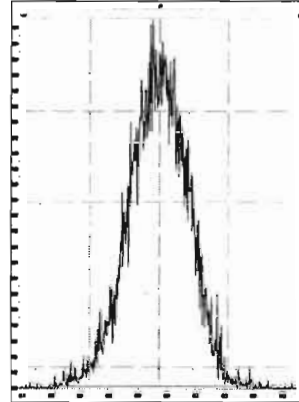
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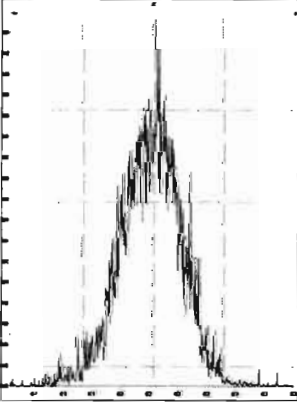
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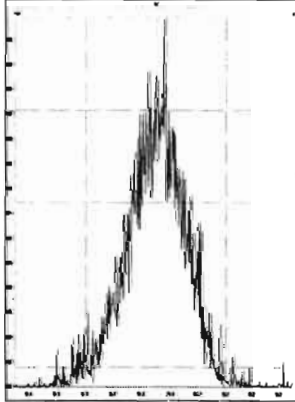
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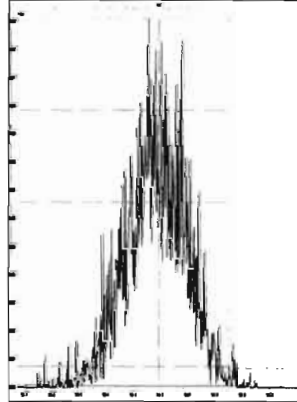
M 492.9696 R 11315



M 504.9696 R 11111



M 516.9697 R 13590



Dataset: Untitled

Last Altered: Thursday, October 01, 2020 07:24:55 Pacific Daylight Time

Printed: Thursday, October 01, 2020 07:25:06 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 200930R2\_2, Date: 30-Sep-2020, Time: 22:42:53, ID: ST200930R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	RT
1	1,3,6,8-TCDD (First)	22.73
2	1,2,8,9-TCDD (Last)	27.31
3	1,2,4,7,9-PeCDD (First)	28.82
4	1,2,3,8,9-PeCDD (Last)	31.41
5	1,2,4,6,7,9-HxCDD (First)	32.71
6	1,2,3,7,8,9-HxCDD (Last)	34.76
7	1,2,3,4,6,7,9-HpCDD (First)	37.23
8	1,2,3,4,6,7,8-HpCDD (Last)	38.21
9	1,3,6,8-TCDF (First)	20.49
10	1,2,8,9-TCDF (Last)	27.61
11	1,3,4,6,8-PeCDF (First)	27.19
12	1,2,3,8,9-PeCDF (Last)	31.76
13	1,2,3,4,6,8-HxCDF (First)	32.19
14	1,2,3,7,8,9-HxCDF (Last)	35.26
15	1,2,3,4,6,7,8-HpCDF (First)	36.85
16	1,2,3,4,7,8,9-HpCDF (Last)	38.83

Dataset: Untitled

Last Altered: Thursday, October 01, 2020 07:24:55 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:25:06 Pacific Daylight Time

GPB 10/01/2020

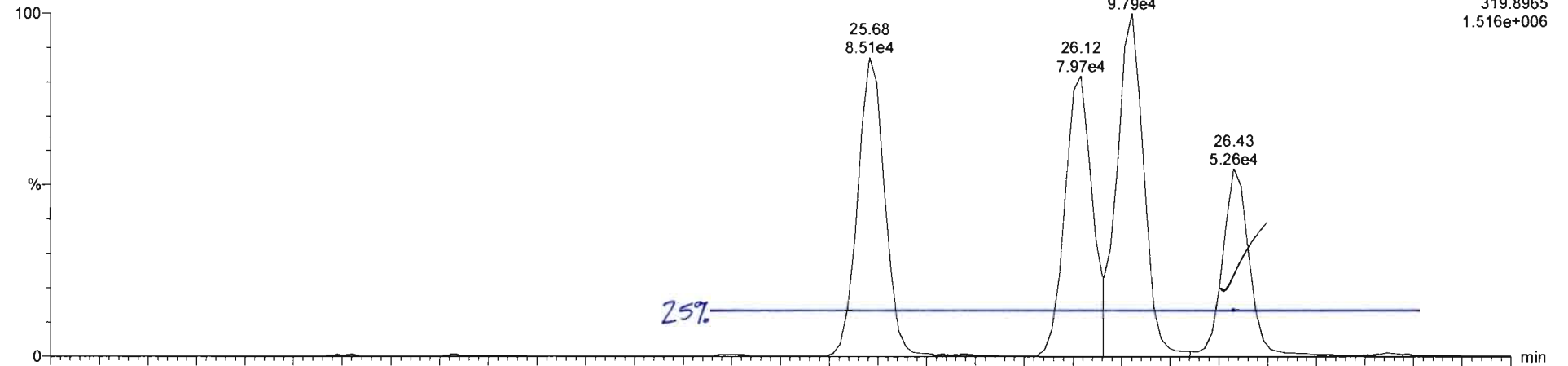
W 10-1-20

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28  
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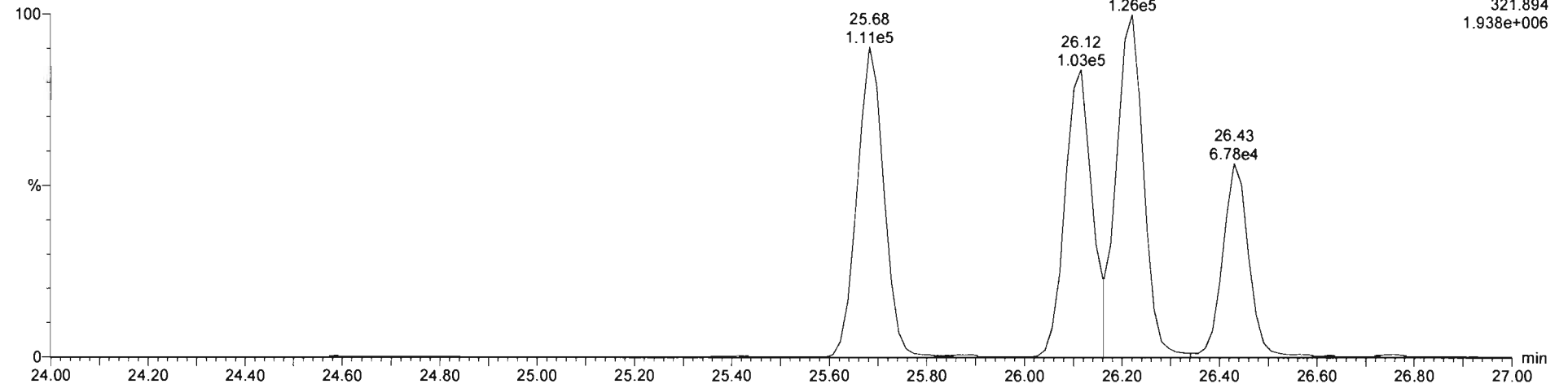
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1,3,6,8-TCDD (First)

200930R2\_2



200930R2\_2

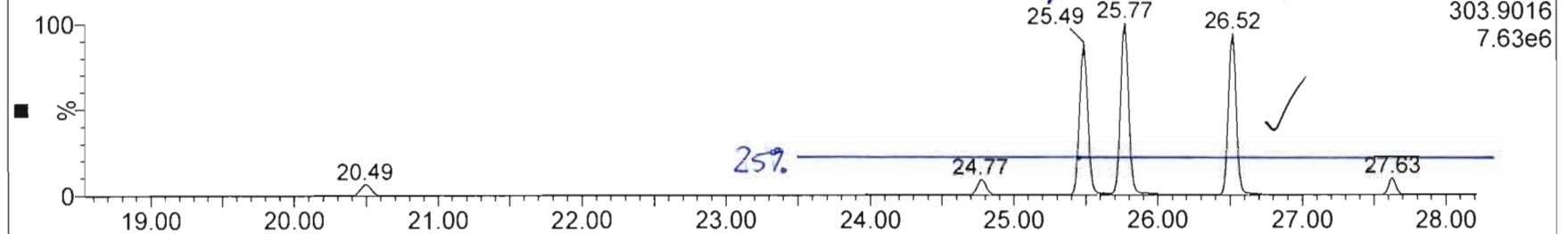


GRB 10/01/2020

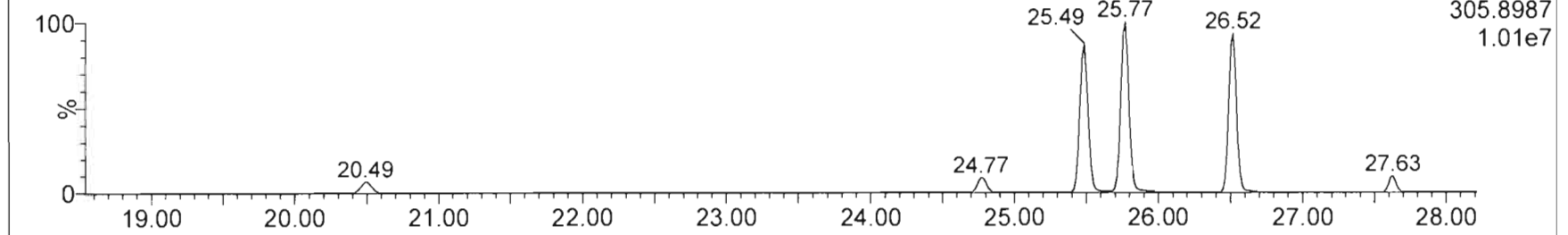
Hz 10.1.2020

### TCDF CPSM QC

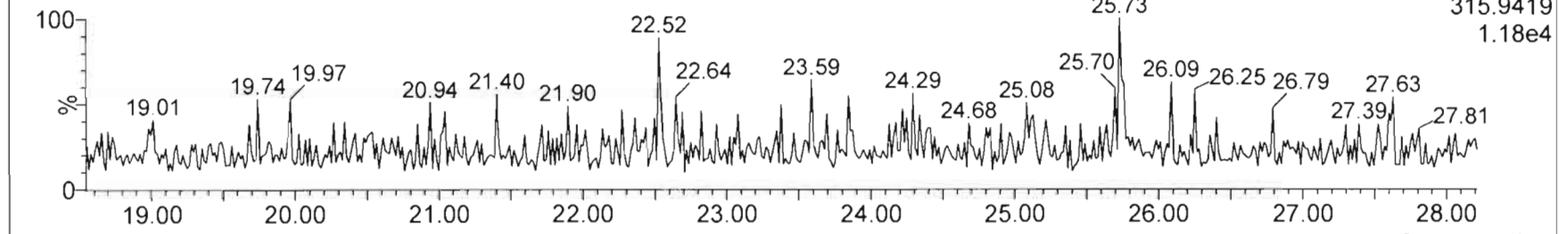
200930R2\_3



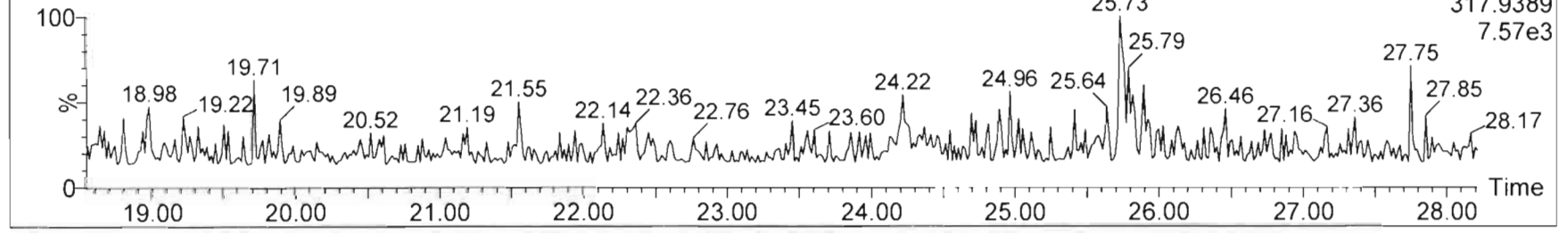
200930R2\_3



200930R2\_3



200930R2\_3



Dataset: Untitled

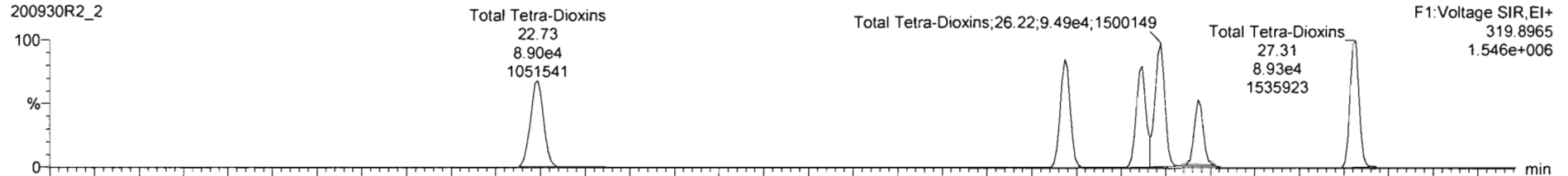
Last Altered: Thursday, October 01, 2020 07:26:15 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:26:18 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

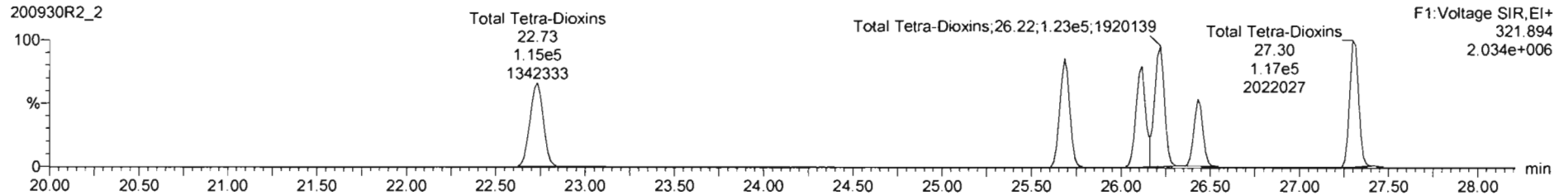
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2,3,7,8-TCDD

200930R2\_2

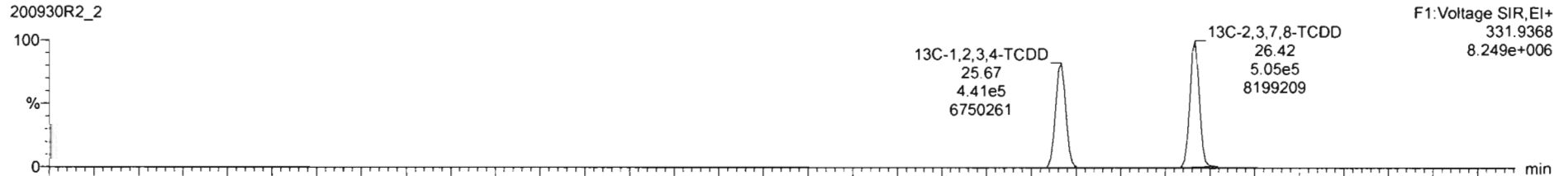


200930R2\_2

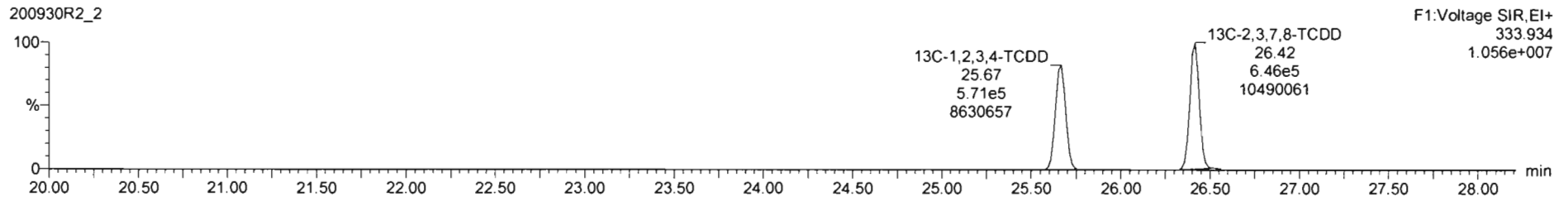


13C-2,3,7,8-TCDD

200930R2\_2



200930R2\_2



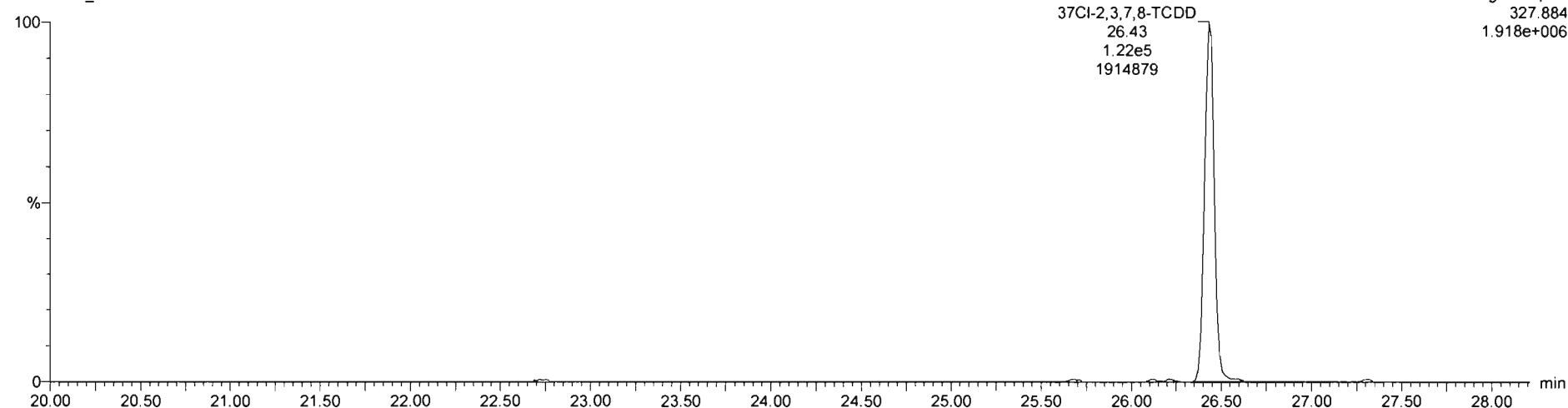
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Last Altered: Thursday, October 01, 2020 07:26:15 Pacific Daylight Time  
Printed: Thursday, October 01, 2020 07:26:18 Pacific Daylight Time

Name: 200930R2\_2, Date: 30-Sep-2020, Time: 22:42:53, ID: ST200930R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

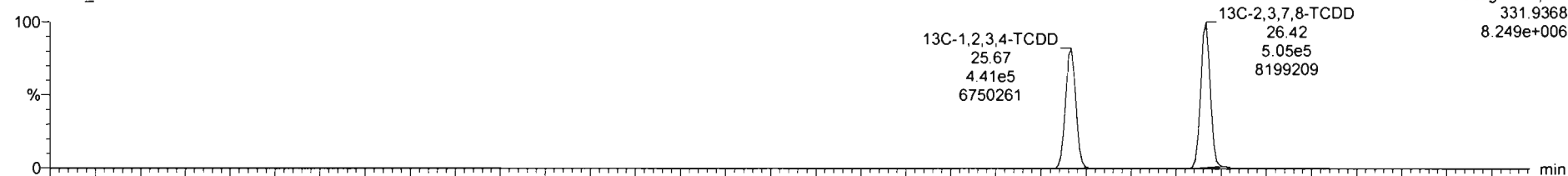
**37Cl-2,3,7,8-TCDD**

200930R2\_2

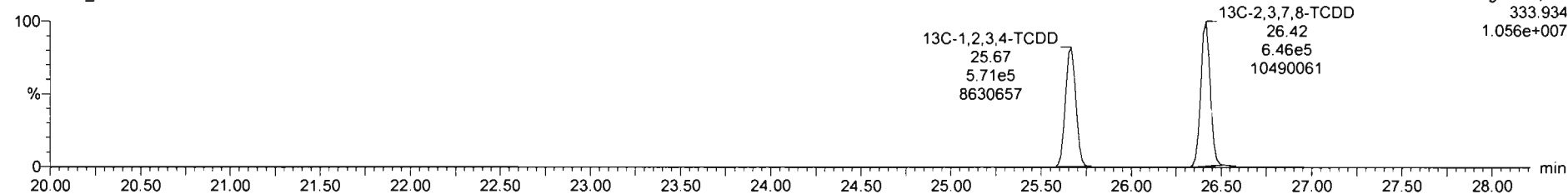


**13C-1,2,3,4-TCDD**

200930R2\_2



200930R2\_2





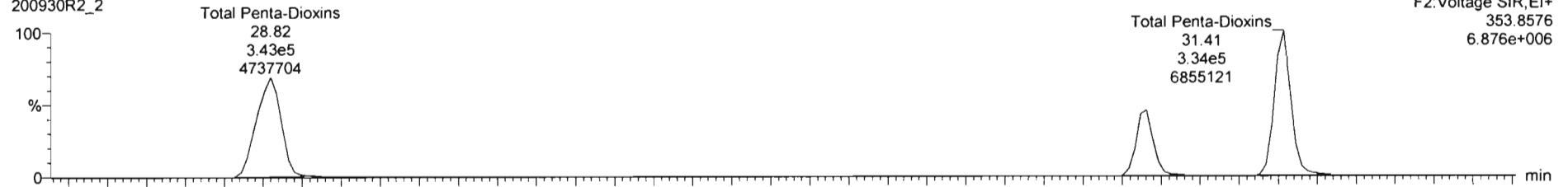
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Printed: Thursday, October 01, 2020 07:26:18 Pacific Daylight Time

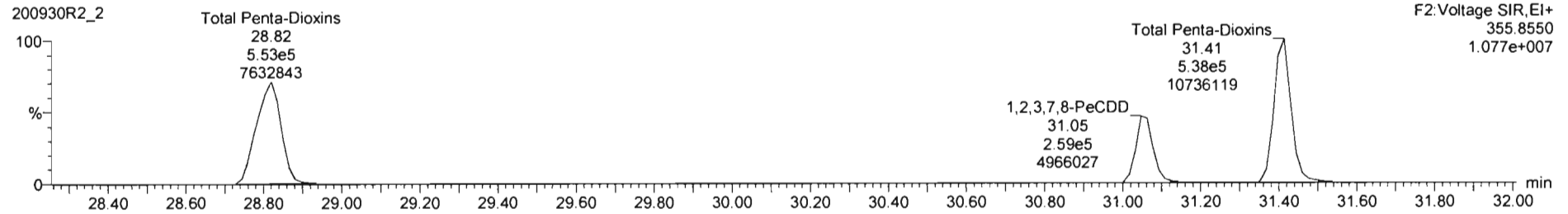
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1,2,3,7,8-PeCDD

200930R2\_2

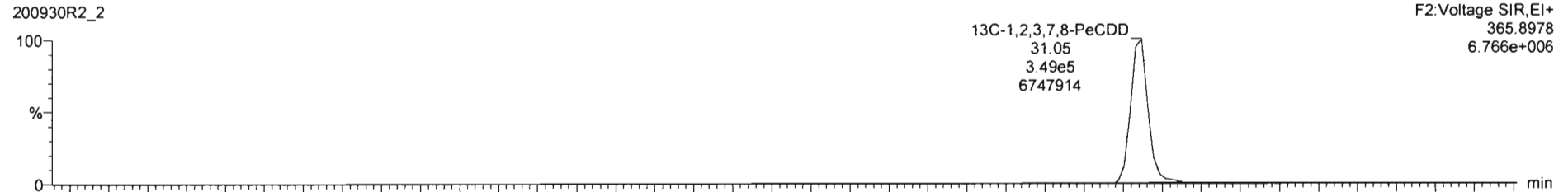


200930R2\_2

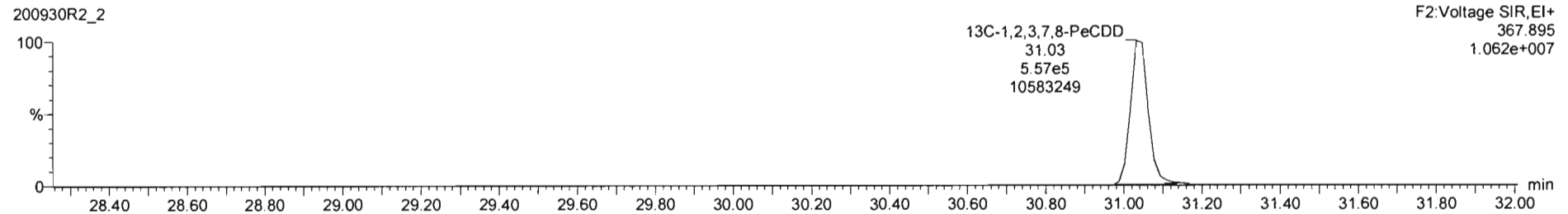


13C-1,2,3,7,8-PeCDD

200930R2\_2



200930R2\_2



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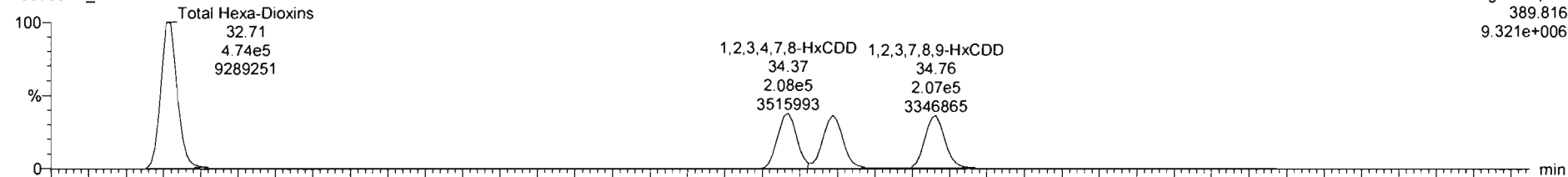
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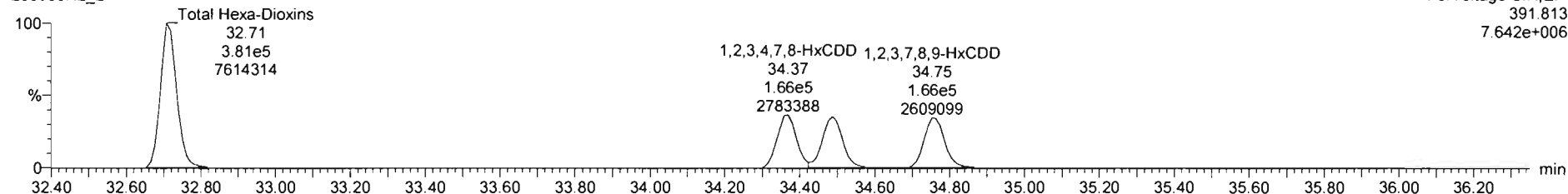
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1,2,3,4,7,8-HxCDD

200930R2\_2

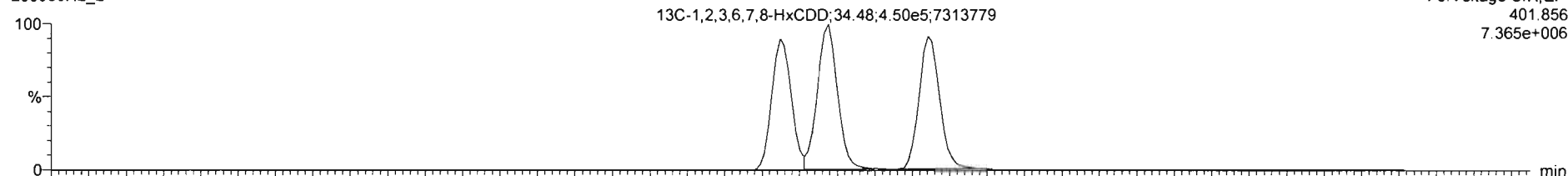


200930R2\_2

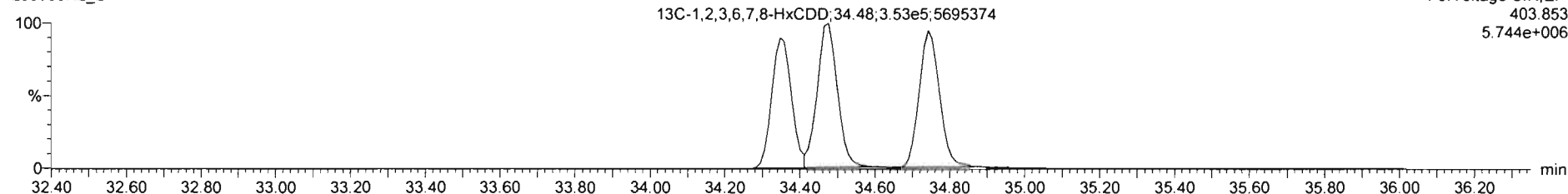


13C-1,2,3,4,7,8-HxCDD

200930R2\_2



200930R2\_2



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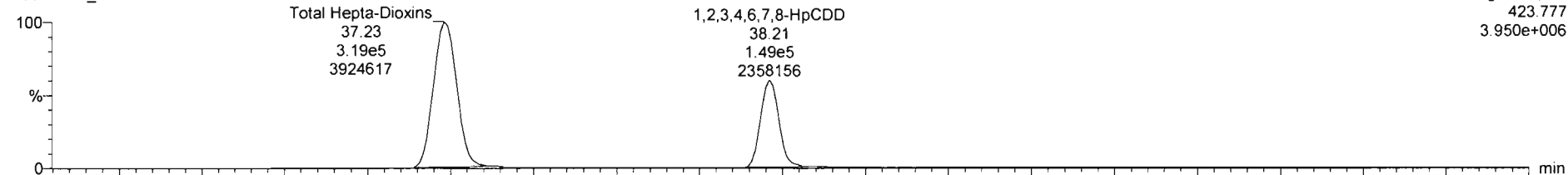
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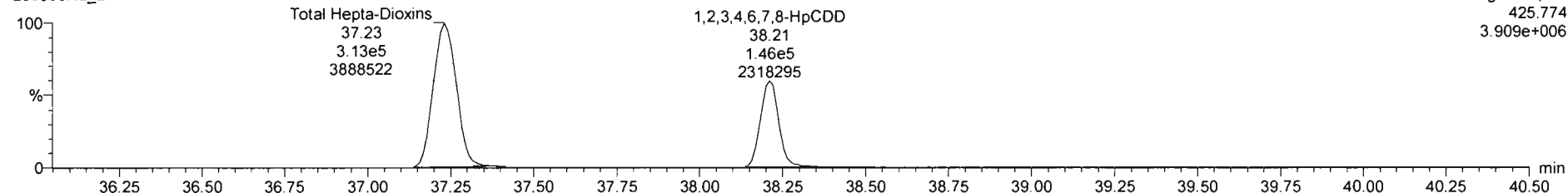
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1,2,3,4,6,7,8-HpCDD

200930R2\_2

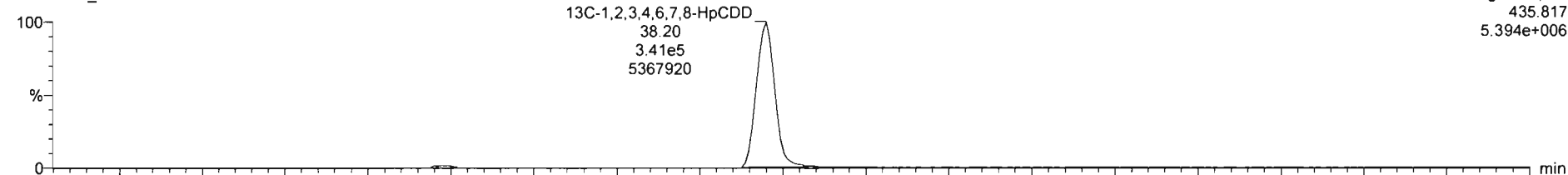


200930R2\_2

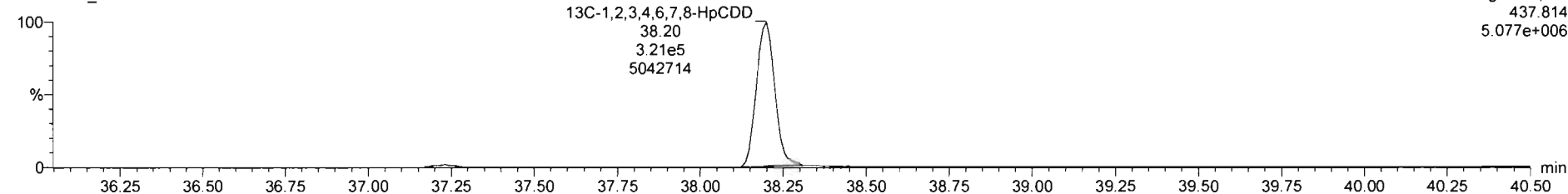


13C-1,2,3,4,6,7,8-HpCDD

200930R2\_2



200930R2\_2

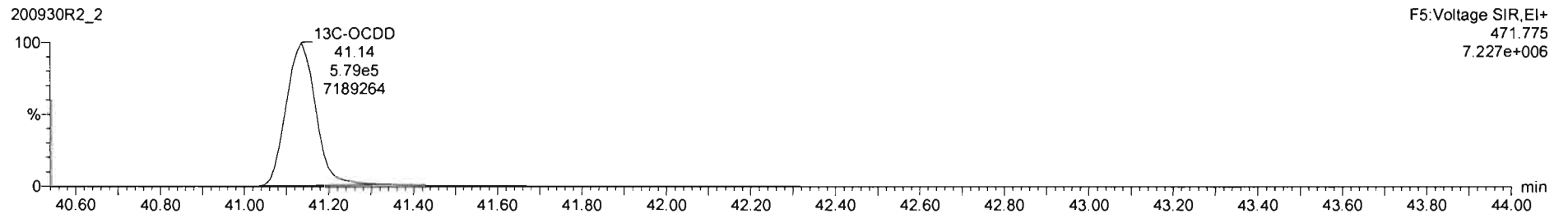
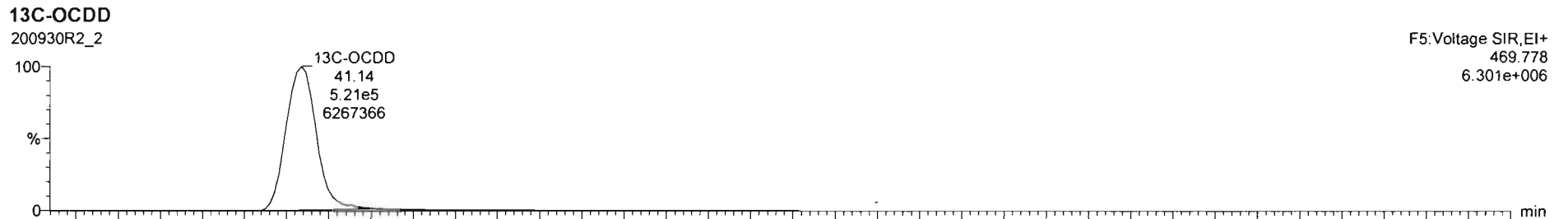
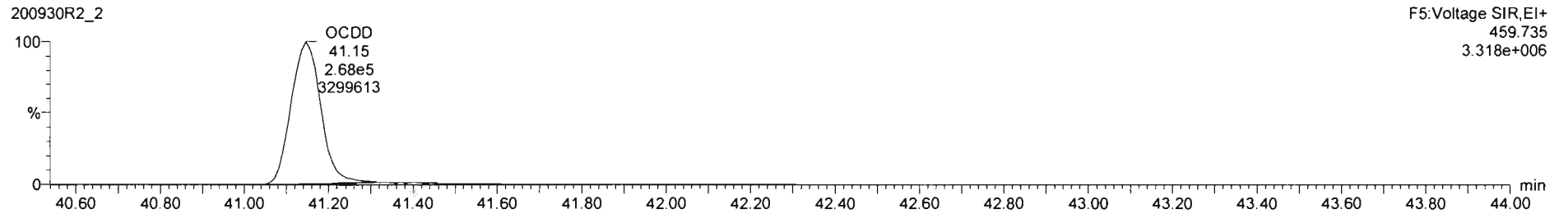
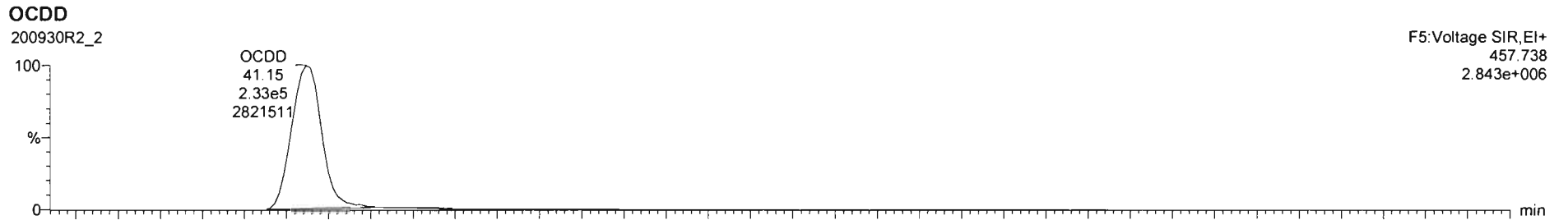


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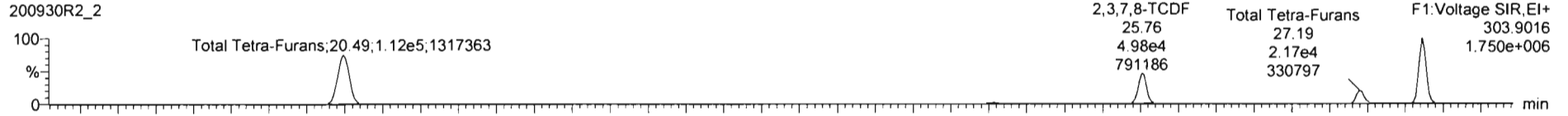
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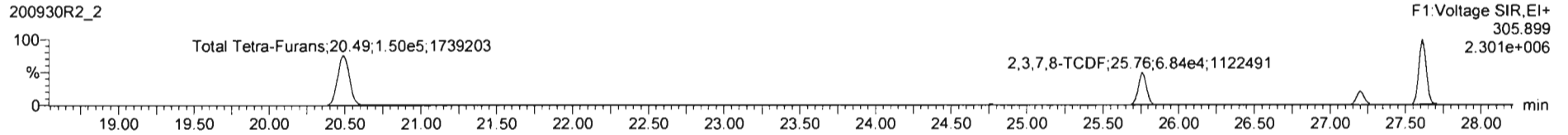
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**2,3,7,8-TCDF**

200930R2\_2

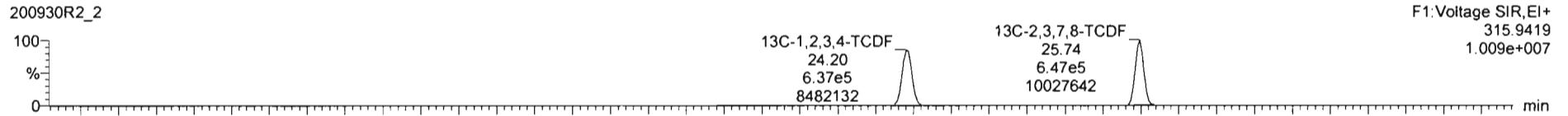


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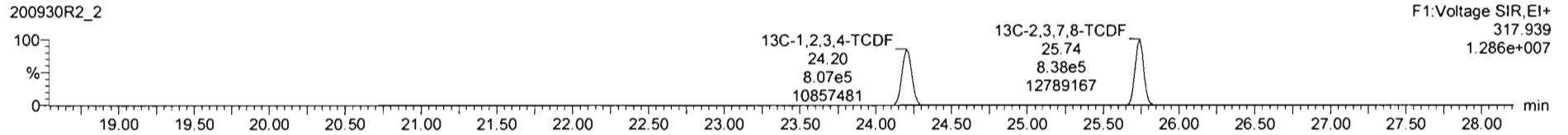


**13C-2,3,7,8-TCDF**

200930R2\_2

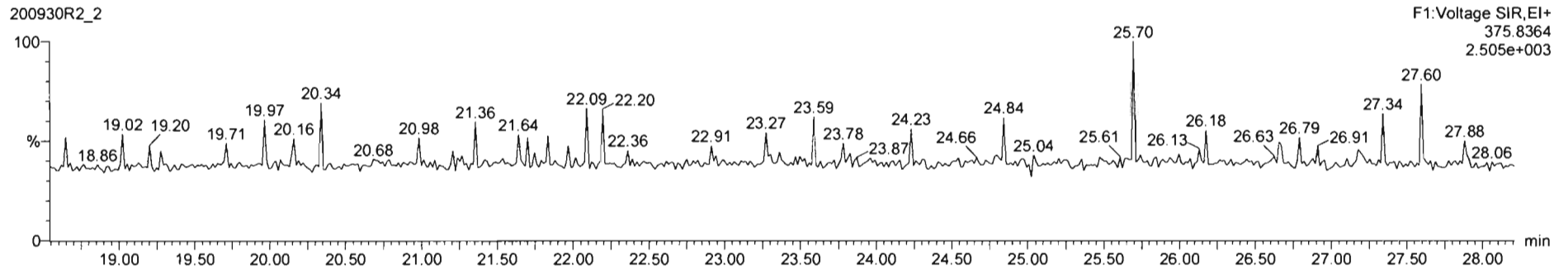


200930R2\_2



**DPE1**

200930R2\_2



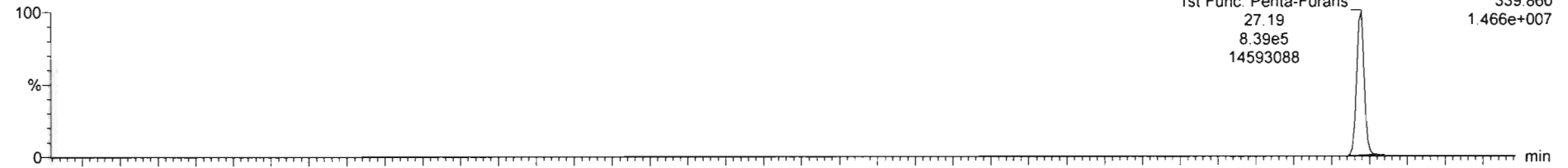
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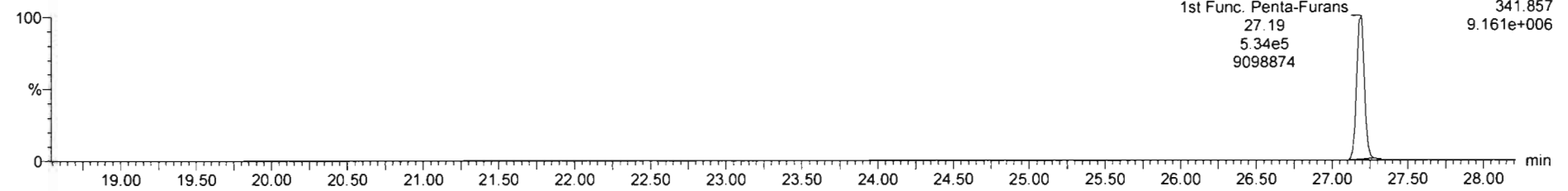
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1st Func. Penta-Furans

200930R2\_2

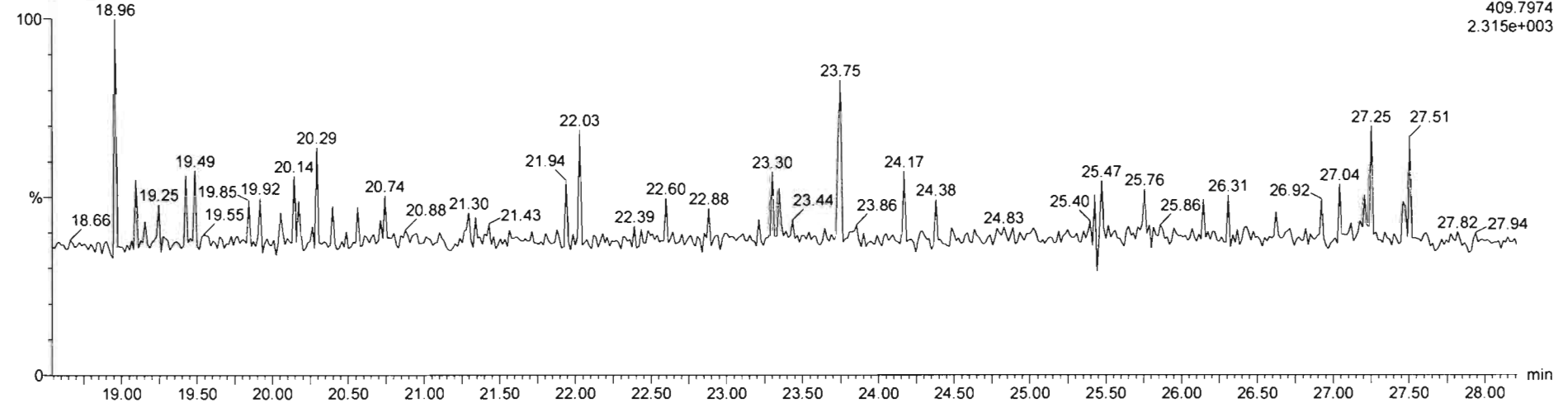


200930R2\_2



DPE6

200930R2\_2



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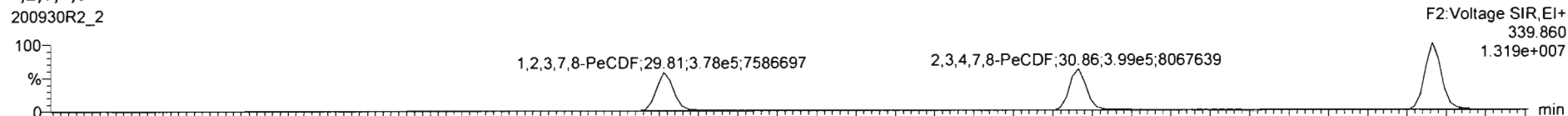
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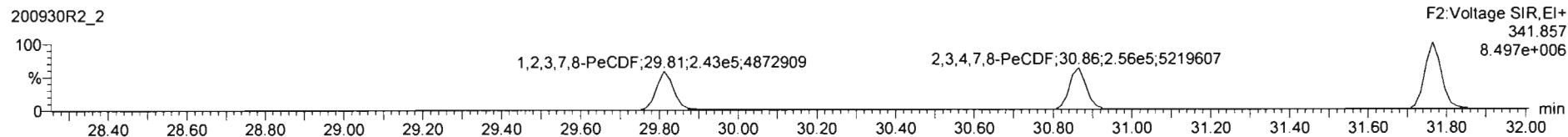
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**1,2,3,7,8-PeCDF**

200930R2\_2

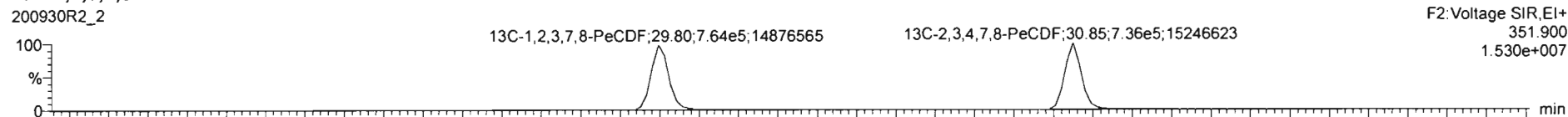


200930R2\_2

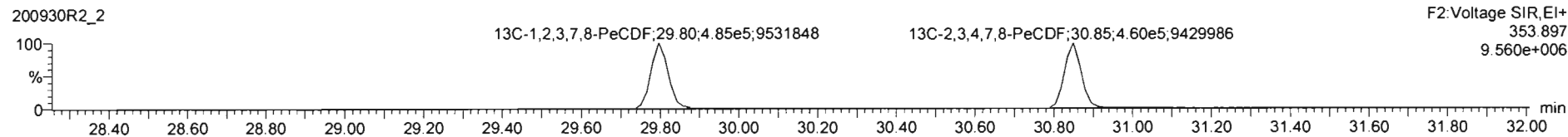


**13C-1,2,3,7,8-PeCDF**

200930R2\_2

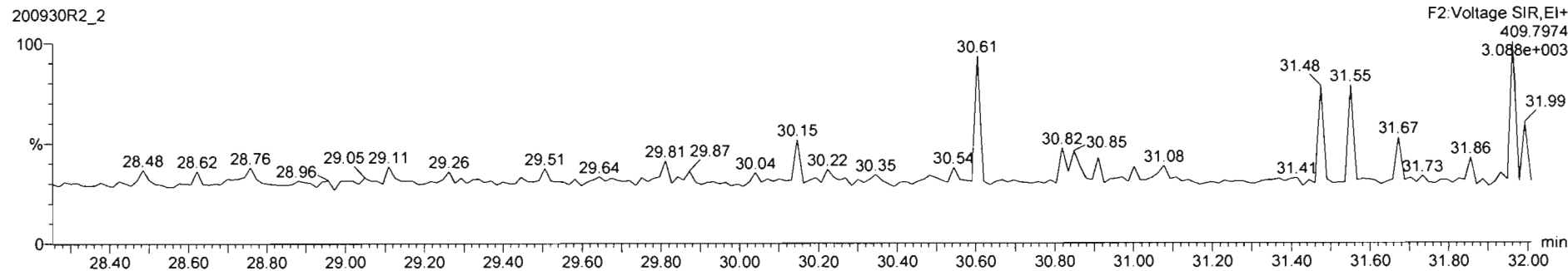


200930R2\_2



**DPE2**

200930R2\_2



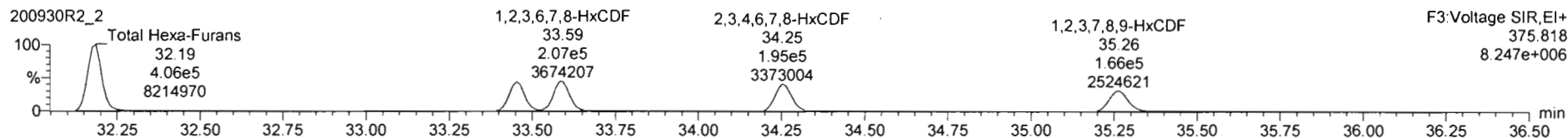
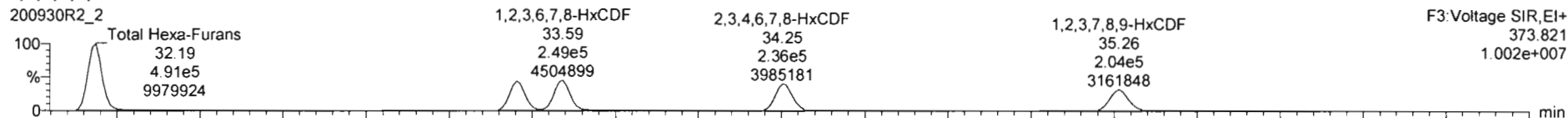
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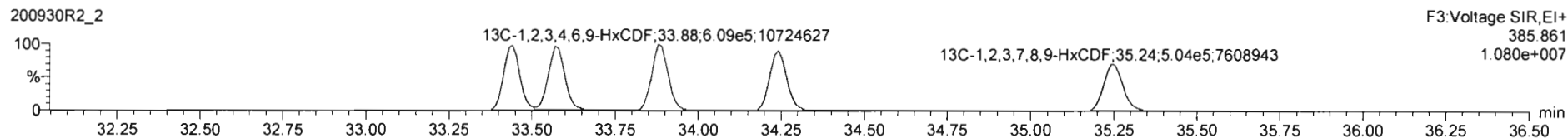
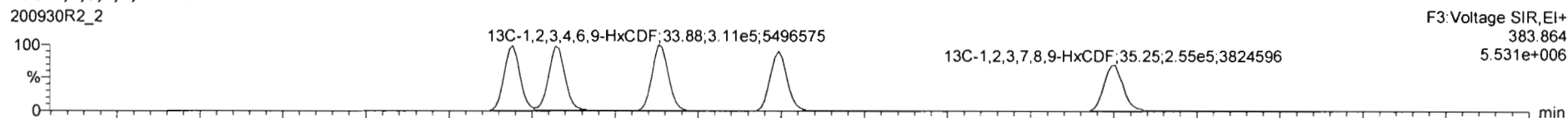
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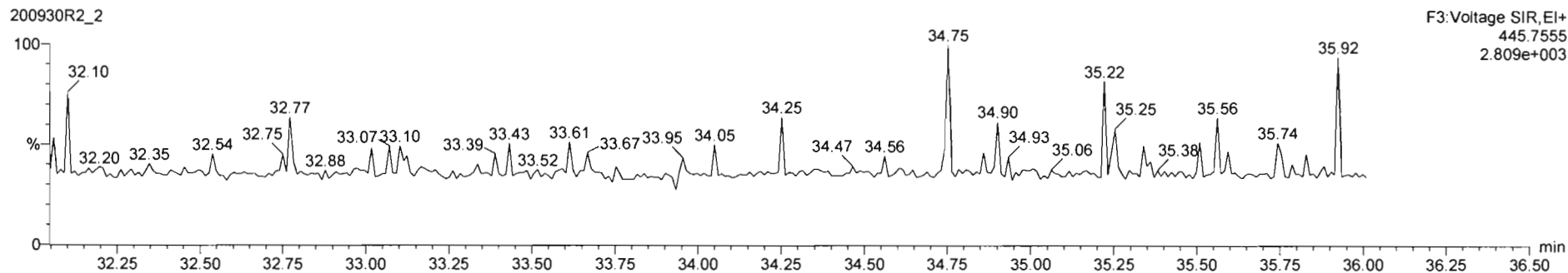
**1,2,3,4,7,8-HxCDF**



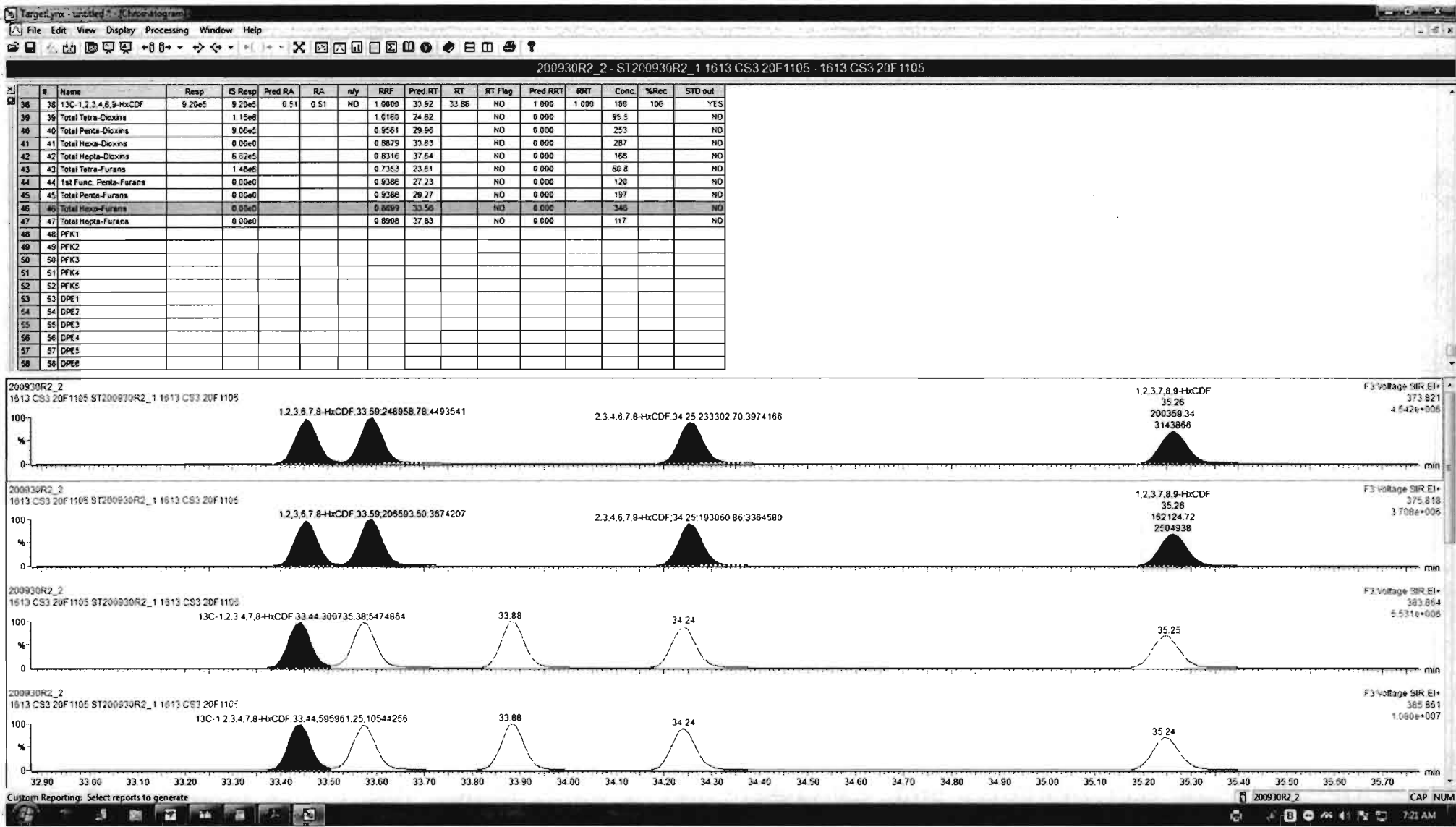
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**







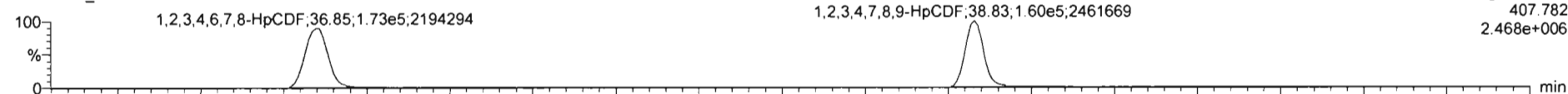
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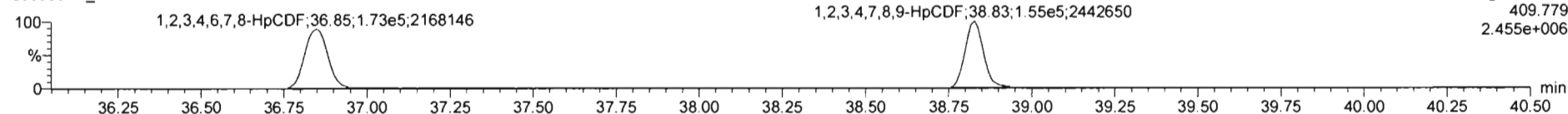
**1,2,3,4,6,7,8-HpCDF**

200930R2\_2



F4:Voltage SIR,El+  
407.782  
2.468e+006

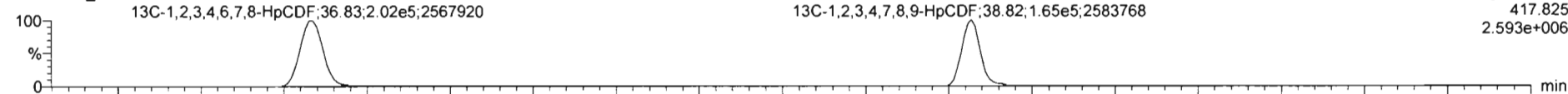
200930R2\_2



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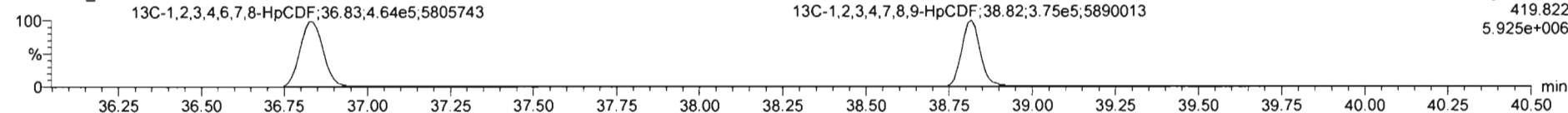
**13C-1,2,3,4,6,7,8-HpCDF**

200930R2\_2



F4:Voltage SIR,El+  
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2.593e+006

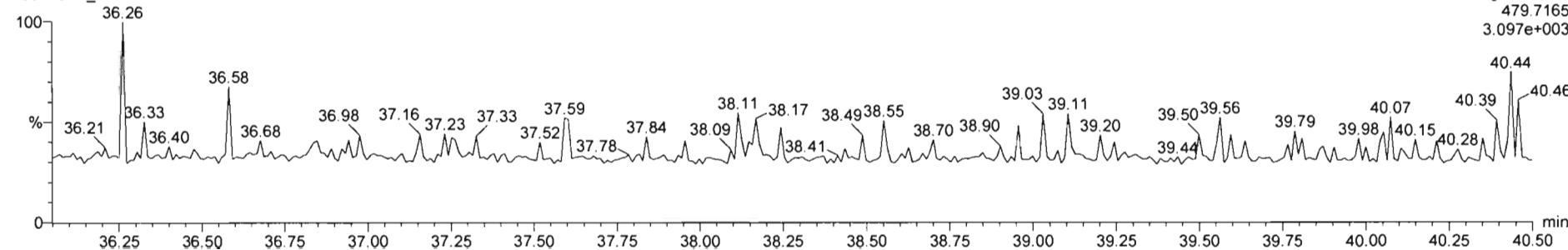
200930R2\_2



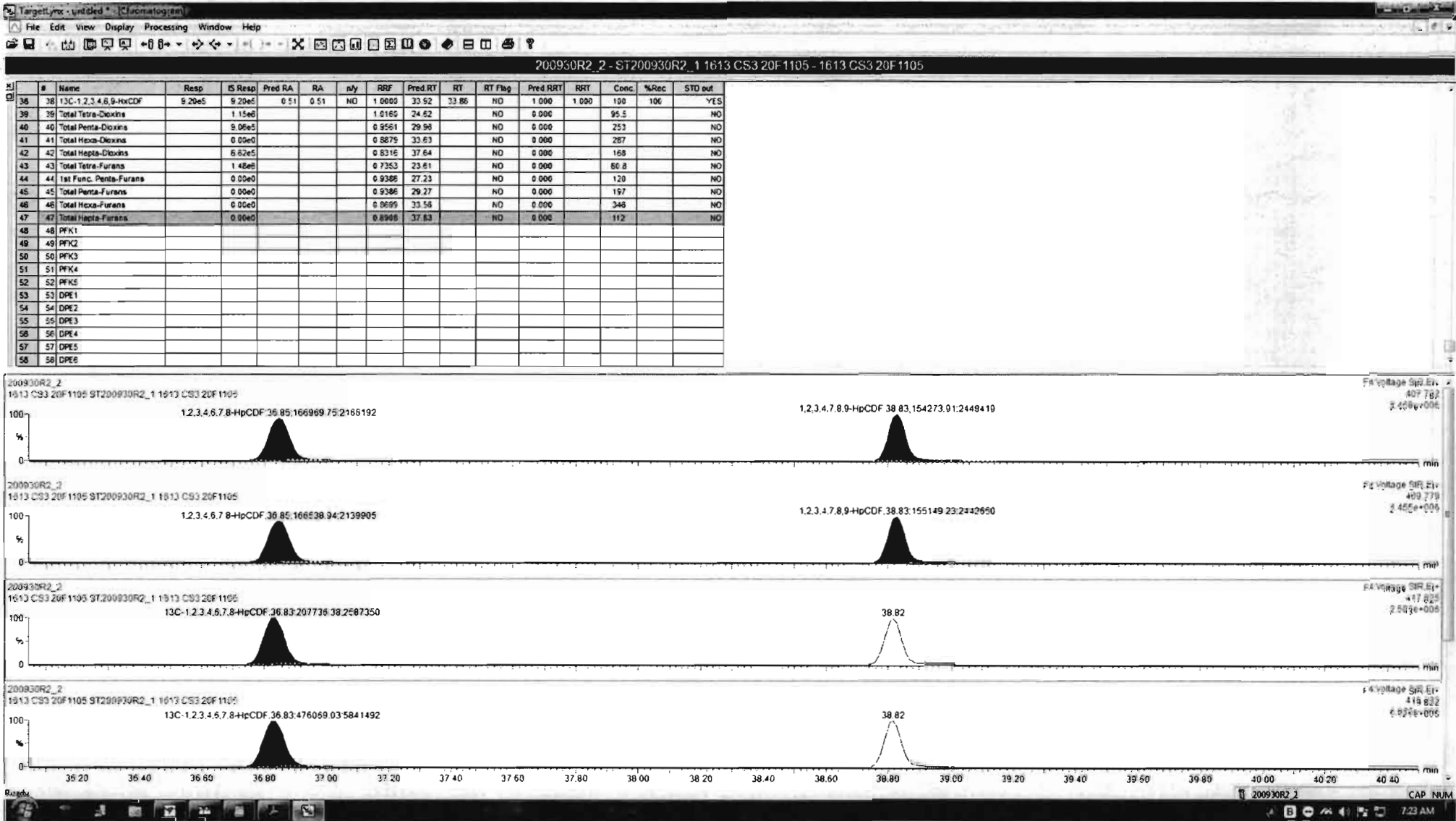
F4:Voltage SIR,El+  
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5.925e+006

**DPE4**

200930R2\_2



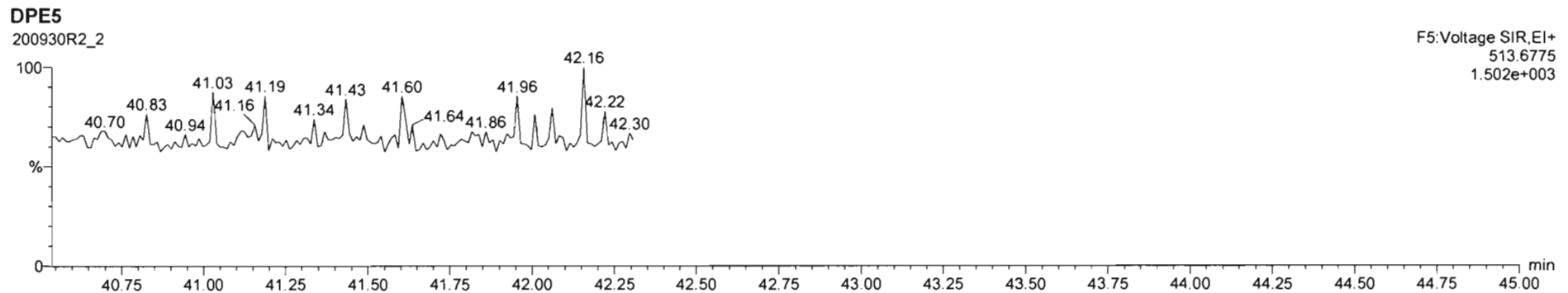
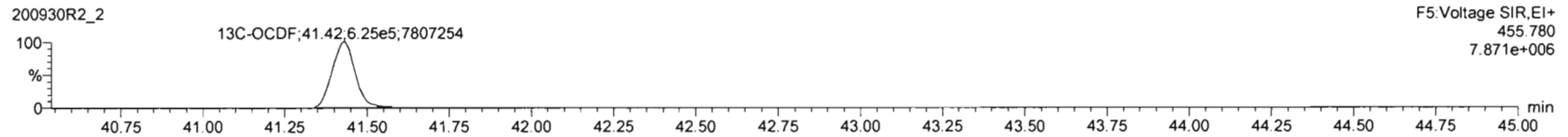
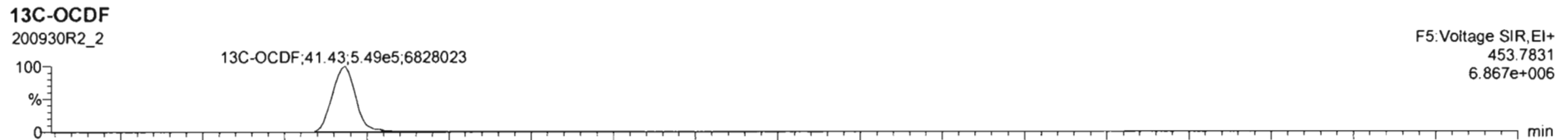
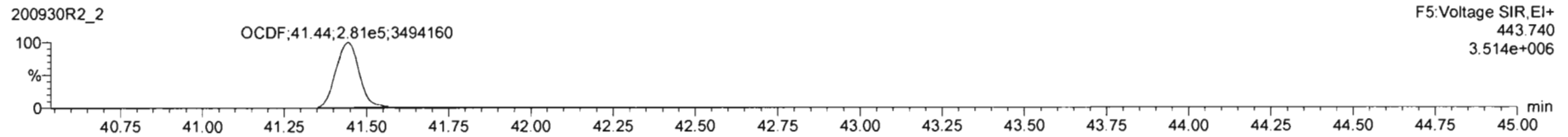
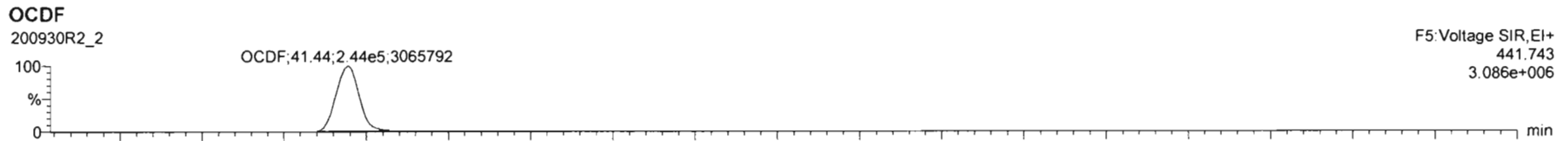
F4:Voltage SIR,El+  
479.7165  
3.097e+003



Dataset: Untitled

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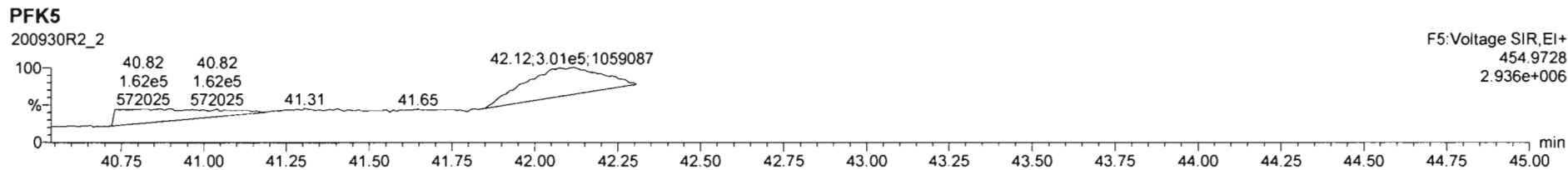
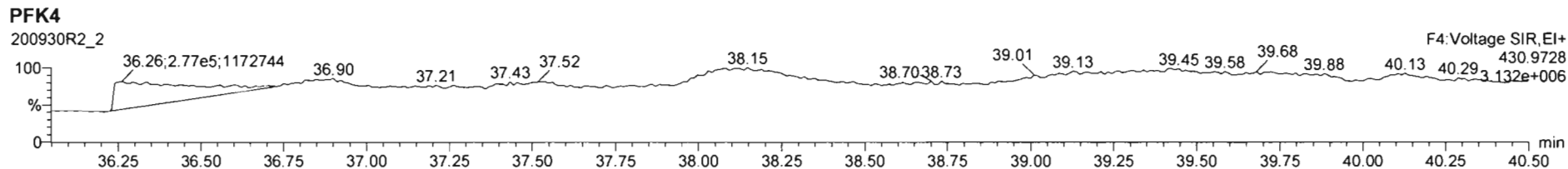
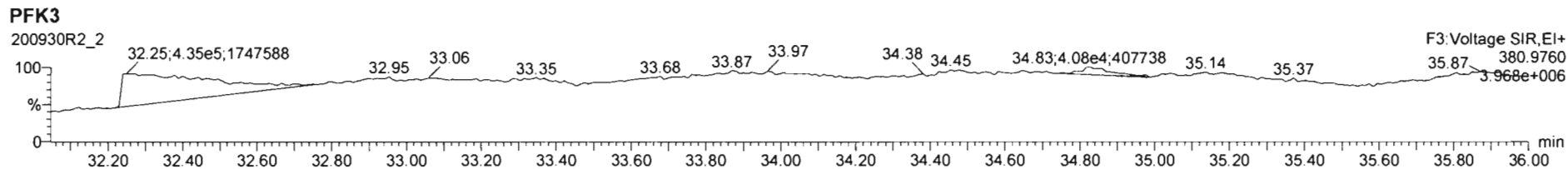
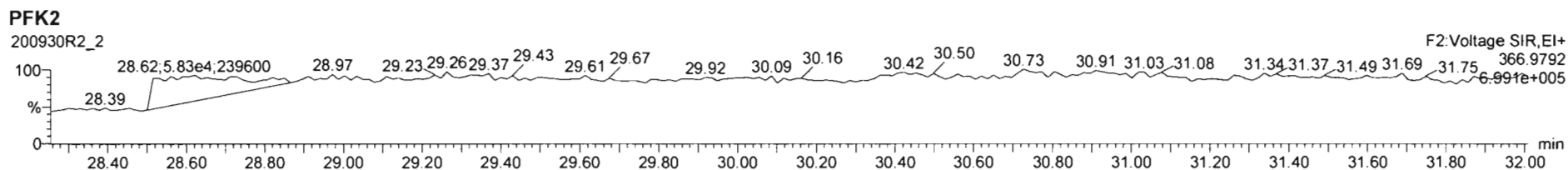
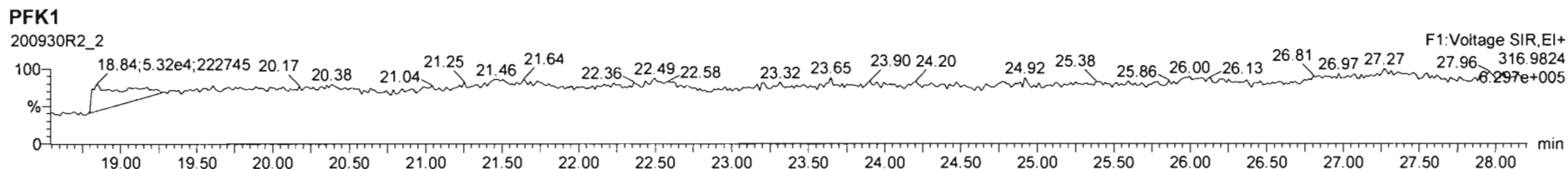
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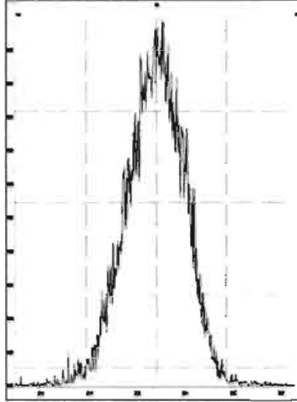
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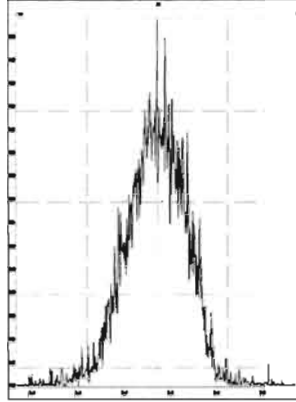


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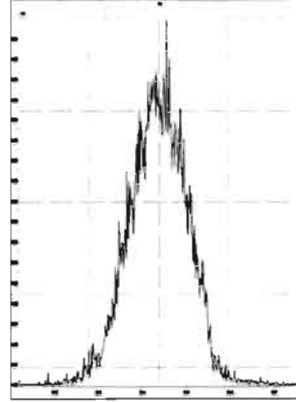
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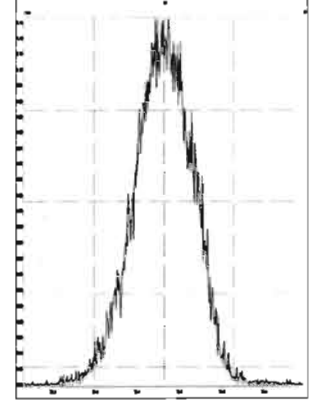
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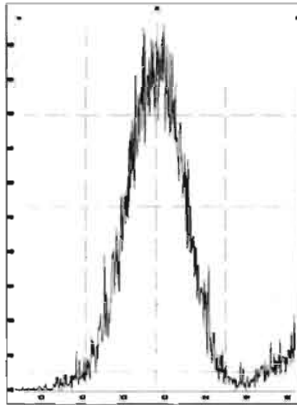
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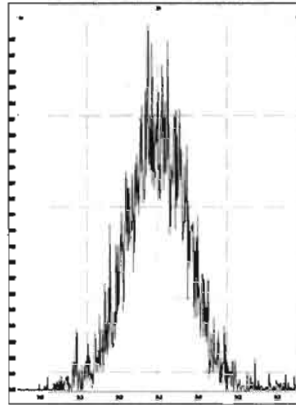
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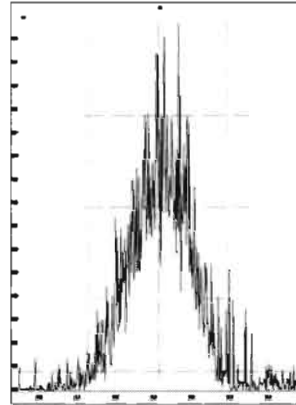
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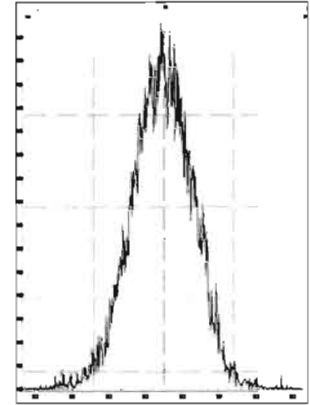
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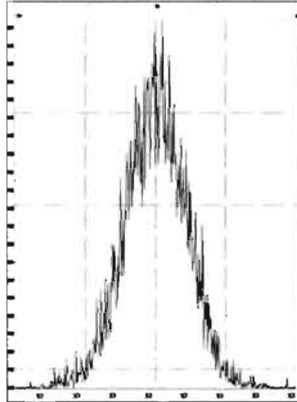
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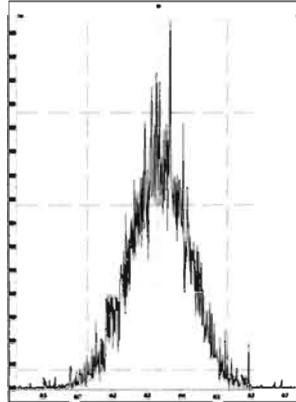
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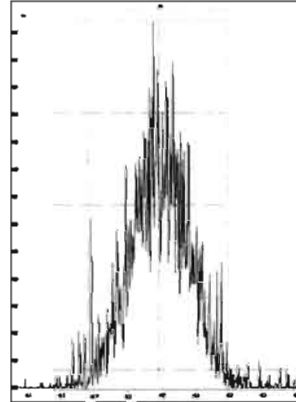
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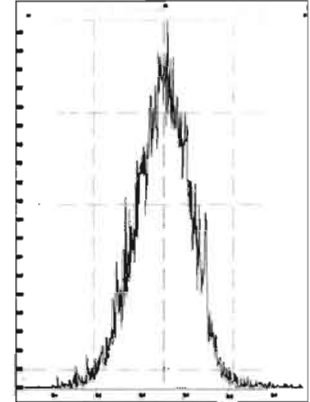
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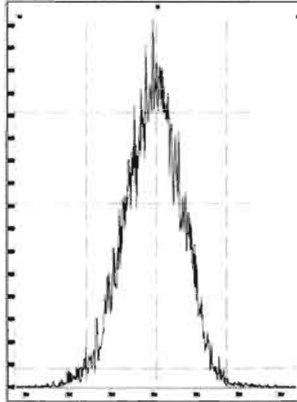
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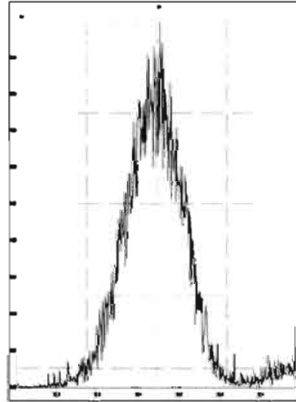
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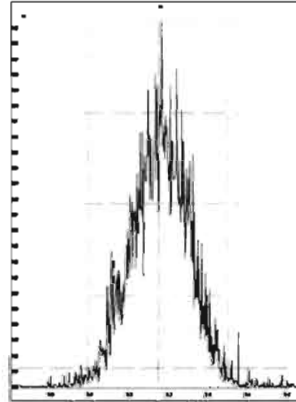
M 330.9792 R 11299



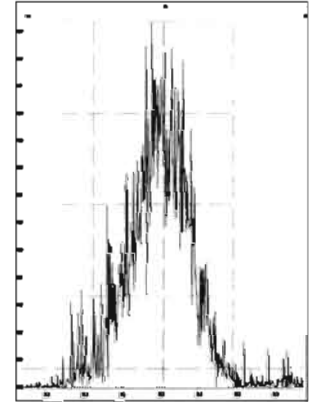
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M 354.9792 R 11805

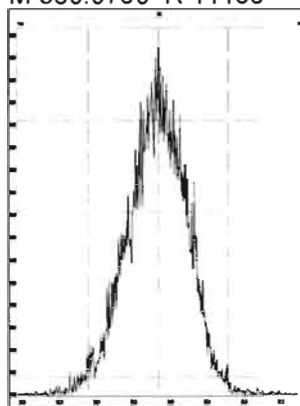


M 366.9792 R 12986

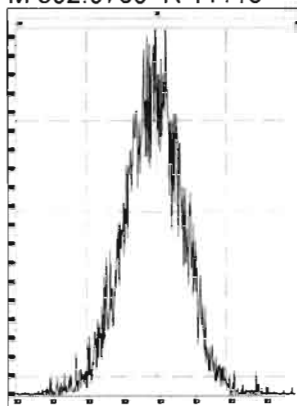


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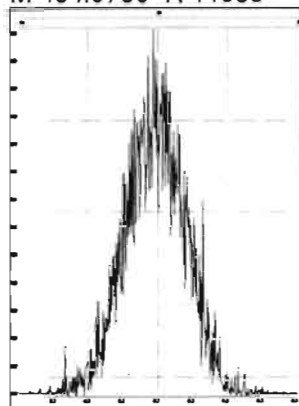
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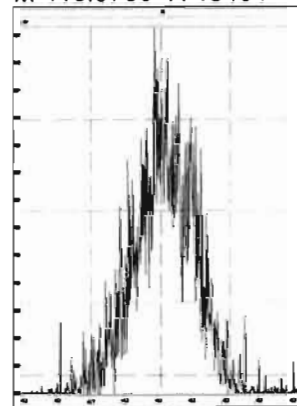
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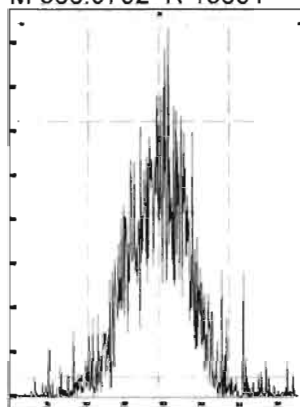
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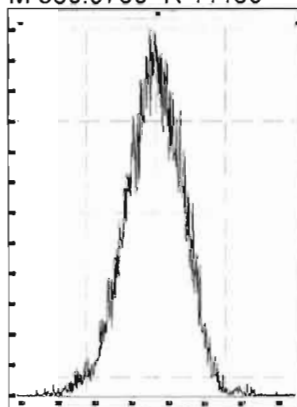
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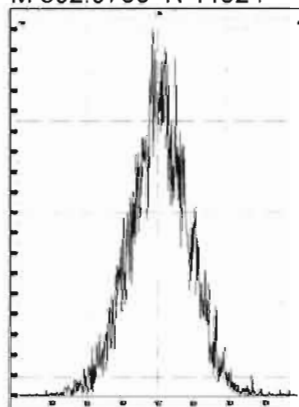
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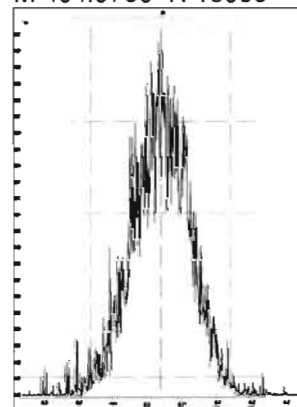
M 380.9760 R 11160



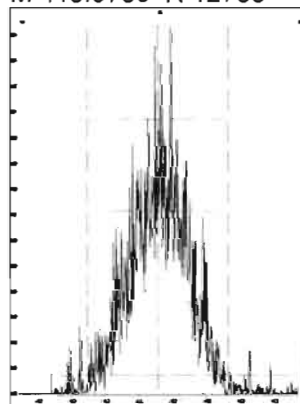
M 392.9760 R 11524



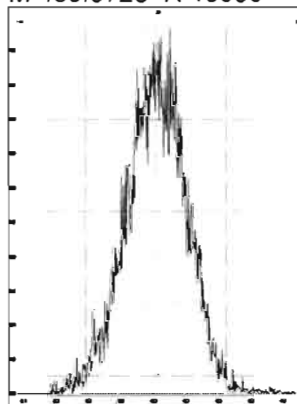
M 404.9760 R 13056



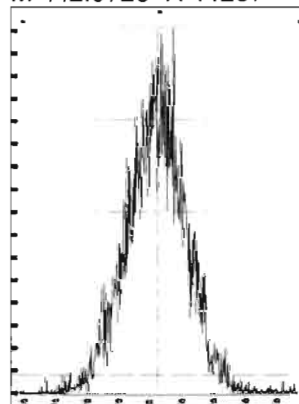
M 416.9760 R 12788



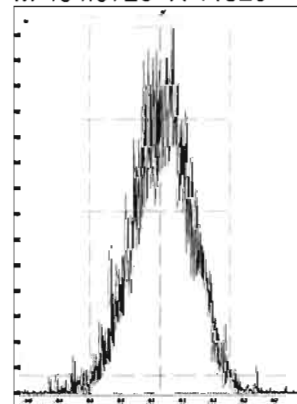
M 430.9728 R 10595



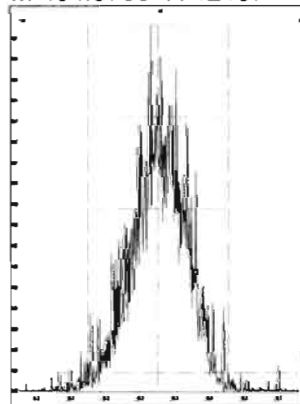
M 442.9728 R 11237



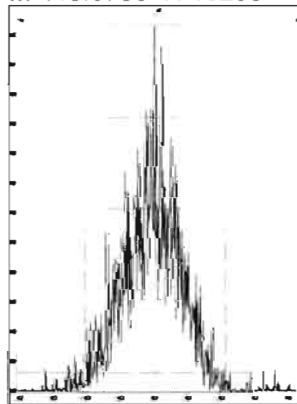
M 454.9728 R 11520



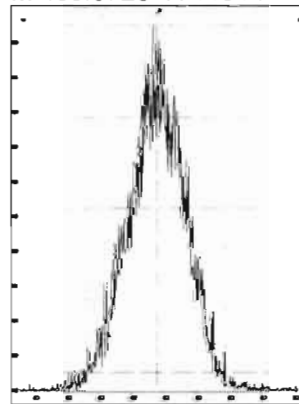
M 404.9760 R 12107



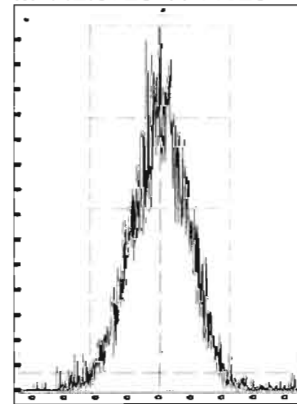
M 416.9760 R 13298



M 430.9728 R 11014

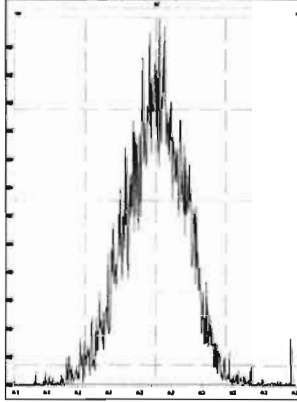


M 442.9728 R 11320

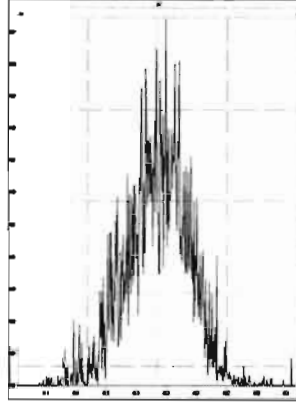


Printed: Thursday, October 01, 2020 09:03:04 Pacific Daylight Time

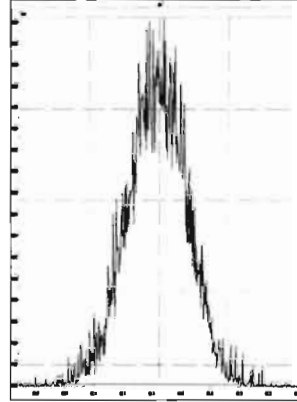
M 454.9728 R 11389



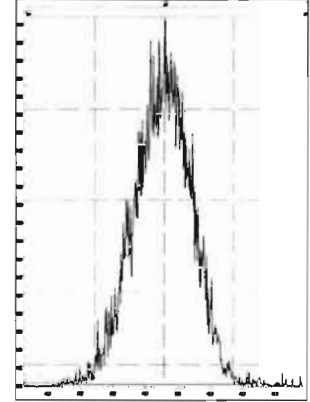
M 466.9728 R 13029



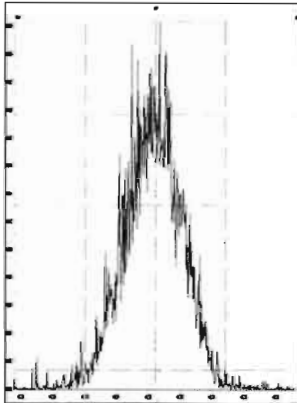
M 480.9696 R 10920



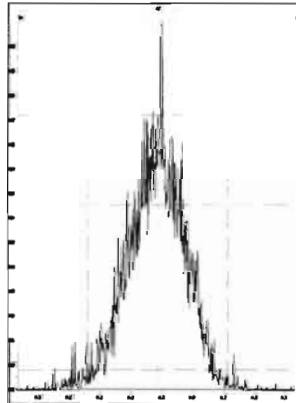
M 430.9728 R 11198



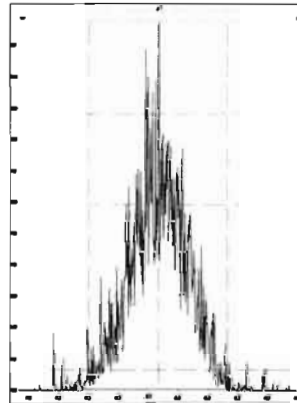
M 442.9728 R 11792



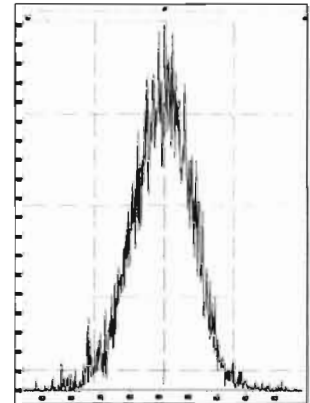
M 454.9728 R 12887



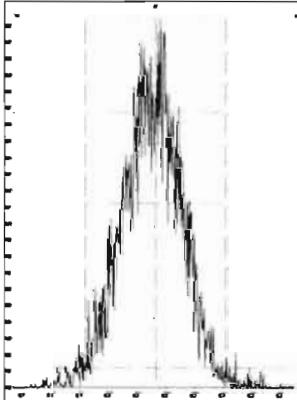
M 466.9728 R 13080



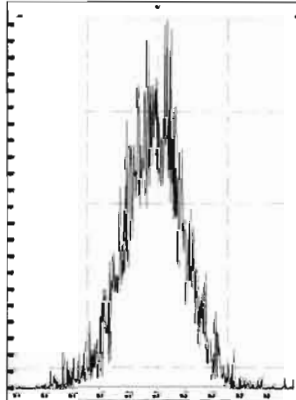
M 480.9696 R 11426



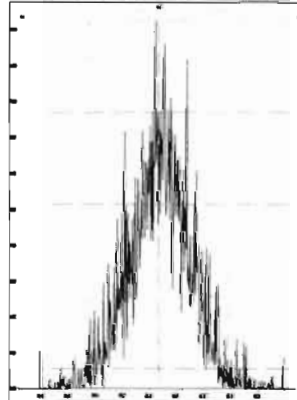
M 492.9696 R 11683



M 504.9696 R 12040



M 516.9697 R 12255





# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST201002R2-1

**Reviewed By:** HIN 10/05/2020

*Initials & Date*

**End Calibration ID:** NA

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

**Mass resolution ≥**

5k     6-8K     8K     10K  
 1614    1699    429    1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

NA

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

**Comments:**

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
-------------------------------------	------------------------------------

NA

Dataset: U:\VG12.PRO\Results\201002R2\201002R2-2.qld

Last Altered: Saturday, October 03, 2020 10:27:35 AM Pacific Daylight Time  
Printed: Saturday, October 03, 2020 10:27:46 AM Pacific Daylight Time

GRB 10/03/2020  
HN 10/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 201002R2\_2, Date: 02-Oct-2020, Time: 21:59:18, ID: ST201002R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	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	7.71e4	8.08e5	0.79	NO	1.02	26.45	26.43	NO	1.001	1.001	9.3945	93.9	NO
2	2 1,2,3,7,8-PeCDD	3.04e5	6.52e5	0.61	NO	0.956	31.07	31.06	NO	1.001	1.000	48.814	97.6	NO
3	3 1,2,3,4,7,8-HxCDD	2.62e5	5.05e5	1.23	NO	1.00	34.38	34.38	NO	1.000	1.000	51.839	104	NO
4	4 1,2,3,6,7,8-HxCDD	2.56e5	5.63e5	1.23	NO	0.888	34.49	34.51	NO	1.000	1.001	51.256	103	NO
5	5 1,2,3,7,8,9-HxCDD	2.61e5	5.51e5	1.23	NO	0.909	34.77	34.77	NO	1.000	1.000	52.072	104	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.03e5	4.66e5	1.02	NO	0.832	38.22	38.23	NO	1.000	1.001	52.402	105	NO
7	7 OCDD	3.33e5	7.54e5	0.86	NO	0.862	41.17	41.18	NO	1.000	1.000	102.35	102	NO
8	8 2,3,7,8-TCDF	8.10e4	1.05e6	0.74	NO	0.735	25.76	25.76	NO	1.000	1.001	10.528	105	NO
9	9 1,2,3,7,8-PeCDF	4.37e5	9.04e5	1.56	NO	0.939	29.83	29.83	NO	1.001	1.001	51.457	103	NO
10	10 2,3,4,7,8-PeCDF	4.66e5	8.63e5	1.56	NO	1.05	30.90	30.86	NO	1.001	1.000	51.463	103	NO
11	11 1,2,3,4,7,8-HxCDF	2.90e5	6.31e5	1.23	NO	0.842	33.45	33.46	NO	1.000	1.000	54.624	109	NO
12	12 1,2,3,6,7,8-HxCDF	3.08e5	6.11e5	1.22	NO	0.894	33.60	33.60	NO	1.000	1.000	56.346	113	NO
13	13 2,3,4,6,7,8-HxCDF	2.92e5	5.92e5	1.22	NO	0.870	34.27	34.27	NO	1.001	1.001	56.709	113	NO
14	14 1,2,3,7,8,9-HxCDF	2.51e5	5.25e5	1.23	NO	0.855	35.29	35.29	NO	1.001	1.001	55.890	112	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.23e5	4.60e5	1.00	NO	0.891	36.90	36.87	NO	1.001	1.000	54.317	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.96e5	3.55e5	1.04	NO	1.00	38.84	38.85	NO	1.000	1.000	55.149	110	NO
17	17 OCDF	3.46e5	7.90e5	0.87	NO	0.784	41.47	41.48	NO	1.000	1.000	111.87	112	NO
18	18 13C-2,3,7,8-TCDD	8.08e5	6.95e5	0.78	NO	1.15	26.40	26.42	NO	1.029	1.029	100.88	101	NO
19	19 13C-1,2,3,7,8-PeCDD	6.52e5	6.95e5	0.63	NO	0.887	30.99	31.05	NO	1.207	1.210	105.81	106	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.05e5	6.27e5	1.26	NO	0.801	34.37	34.37	NO	1.014	1.014	100.51	101	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.63e5	6.27e5	1.25	NO	0.892	34.50	34.49	NO	1.018	1.017	100.60	101	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.51e5	6.27e5	1.25	NO	0.882	34.76	34.76	NO	1.025	1.025	99.640	99.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.66e5	6.27e5	1.04	NO	0.719	38.20	38.21	NO	1.127	1.127	103.28	103	NO
24	24 13C-OCDD	7.54e5	6.27e5	0.88	NO	0.563	41.13	41.17	NO	1.213	1.214	213.64	107	NO
25	25 13C-2,3,7,8-TCDF	1.05e6	9.93e5	0.77	NO	1.01	25.75	25.74	NO	1.003	1.003	104.36	104	NO
26	26 13C-1,2,3,7,8-PeCDF	9.04e5	9.93e5	1.59	NO	0.814	29.75	29.81	NO	1.159	1.161	111.89	112	NO
27	27 13C-2,3,4,7,8-PeCDF	8.63e5	9.93e5	1.59	NO	0.768	30.79	30.86	NO	1.200	1.202	113.29	113	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.31e5	6.27e5	0.50	NO	0.993	33.45	33.45	NO	0.987	0.987	101.36	101	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.11e5	6.27e5	0.50	NO	0.990	33.59	33.59	NO	0.991	0.991	98.409	98.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.92e5	6.27e5	0.50	NO	0.944	34.26	34.25	NO	1.011	1.010	99.915	99.9	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.25e5	6.27e5	0.52	NO	0.842	35.28	35.26	NO	1.041	1.040	99.444	99.4	NO

Dataset: U:\VG12.PRO\Results\201002R2\201002R2-2.qld

Last Altered: Saturday, October 03, 2020 10:27:35 AM Pacific Daylight Time

Printed: Saturday, October 03, 2020 10:27:46 AM Pacific Daylight Time

Name: 201002R2\_2, Date: 02-Oct-2020, Time: 21:59:18, ID: ST201002R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# 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	4.60e5	6.27e5	0.44	NO	0.687	36.87	36.86	NO	1.087	1.087	106.80	107	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.55e5	6.27e5	0.42	NO	0.555	38.82	38.84	NO	1.145	1.146	101.95	102	NO
34	34 13C-OCDF	7.90e5	6.27e5	0.87	NO	0.608	41.41	41.47	NO	1.221	1.223	207.13	104	NO
35	35 37Cl-2,3,7,8-TCDD	8.31e4	6.95e5			1.18	26.44	26.43	NO	1.030	1.030	10.146	101	NO
36	36 13C-1,2,3,4-TCDD	6.95e5	6.95e5	0.78	NO	1.00	25.74	25.67	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	9.93e5	9.93e5	0.78	NO	1.00	24.31	24.20	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	6.27e5	6.27e5	0.51	NO	1.00	33.92	33.90	NO	1.000	1.000	100.00	100	YES <i>sk</i>

Dataset: Untitled

Last Altered: Saturday, October 03, 2020 10:30:59 AM Pacific Daylight Time

Printed: Saturday, October 03, 2020 10:31:03 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

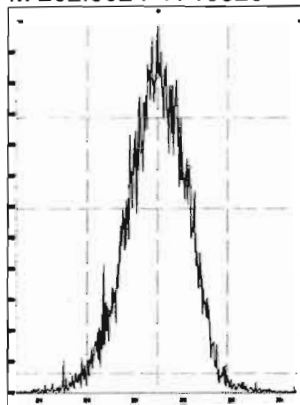
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

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

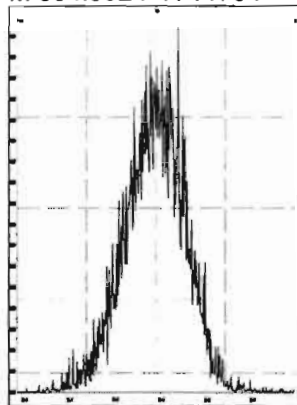
	Name	ID	Acq.Date	Acq.Time
1	201002R2_1	SOLVENT BLANK	02-Oct-20	21:15:45
2	201002R2_2	ST201002R2_1 1613 CS3 20F1105	02-Oct-20	21:59:18
3	201002R2_3	TCDF CPSM	02-Oct-20	22:42:58
4	201002R2_4	SOLVENT BLANK	02-Oct-20	23:26:36
5	201002R2_5	2002031-01 NCPDI-011SG-200926 10	03-Oct-20	00:10:15
6	201002R2_6	2002031-02 NCPDI-014SG-200926 10	03-Oct-20	00:53:59
7	201002R2_7	2002031-03 NCPDI-1014SG-200926 10	03-Oct-20	01:37:39
8	201002R2_8	2002031-04 NCPDI-018SG-200926 10	03-Oct-20	02:21:17
9	201002R2_9	2002031-05 NCPDI-070SG-200926 10	03-Oct-20	03:04:55
10	201002R2_10	2001995-01@10X PDI-048SC-A-08-11-20050...	03-Oct-20	03:48:39
11	201002R2_11	SOLVENT BLANK	03-Oct-20	04:41:10
12	201002R2_12	SOLVENT BLANK	03-Oct-20	05:24:41
13	201002R2_13	HRMS-201001-01 Toluene QC DY575-US	03-Oct-20	06:08:19
14	201002R2_14	HRMS-201001-03 DARBY QC	03-Oct-20	06:52:02
15	201002R2_15	HRMS-201001-04 DARBY QC	03-Oct-20	07:35:45
16	201002R2_16	SOLVENT BLANK	03-Oct-20	08:28:20

Printed: Friday, October 02, 2020 21:15:40 Pacific Daylight Time

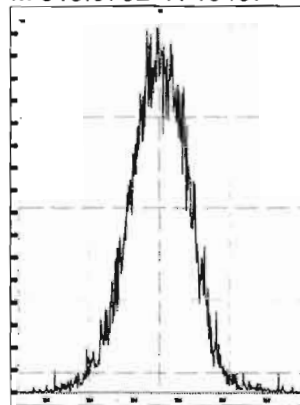
M 292.9824 R 10823



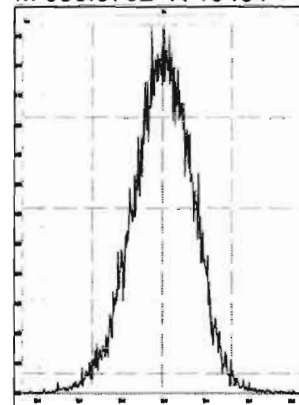
M 304.9824 R 11764



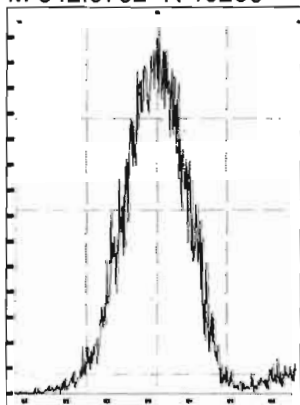
M 318.9792 R 10487



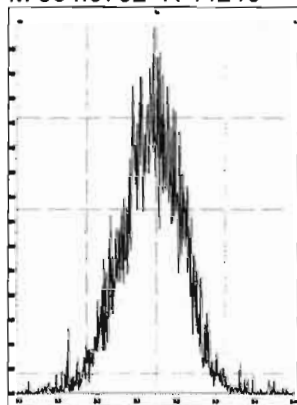
M 330.9792 R 10461



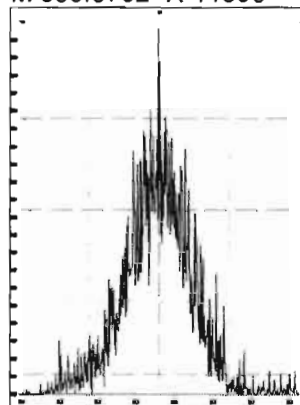
M 342.9792 R 10250



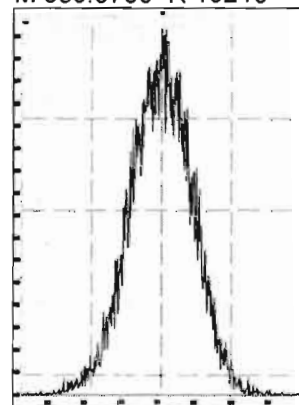
M 354.9792 R 11210



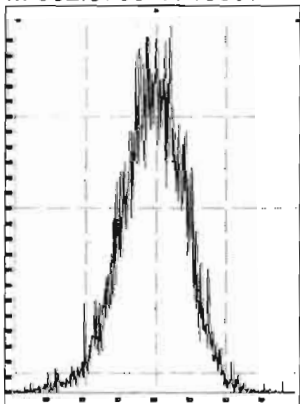
M 366.9792 R 11390



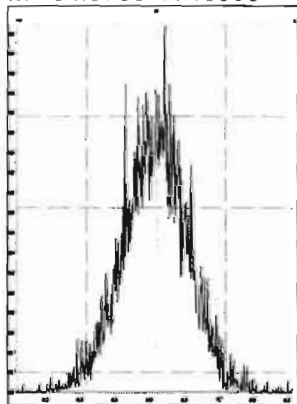
M 380.9760 R 10210



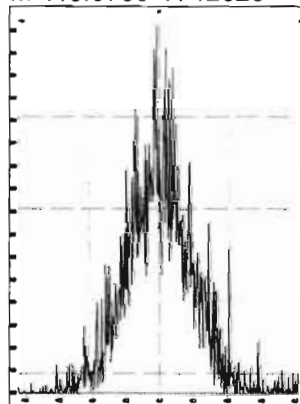
M 392.9760 R 10357



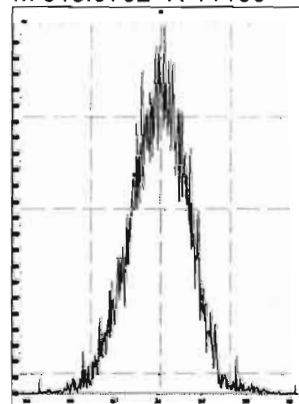
M 404.9760 R 10666



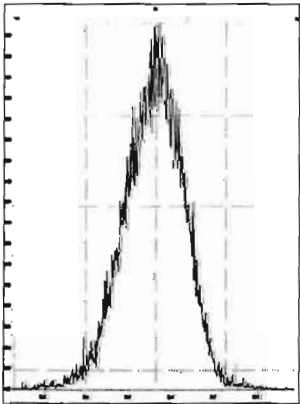
M 416.9760 R 12023



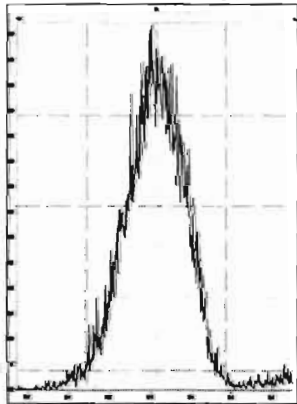
M 318.9792 R 11160



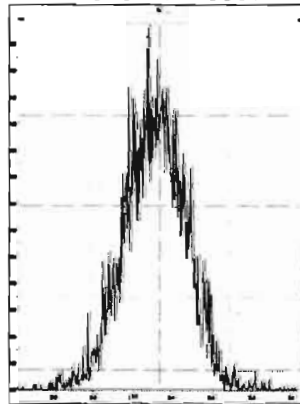
M 330.9792 R 10943



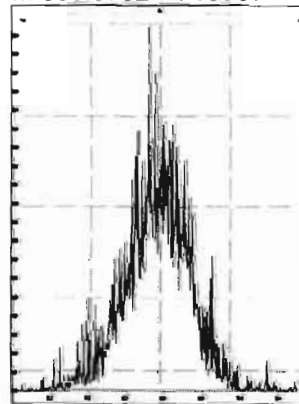
M 342.9792 R 10688



M 354.9792 R 10997

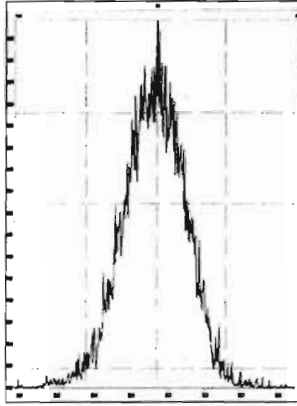


M 366.9792 R 10967

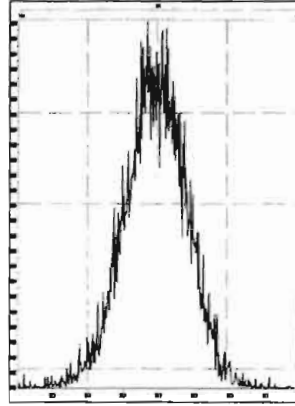


Printed: Friday, October 02, 2020 21:15:40 Pacific Daylight Time

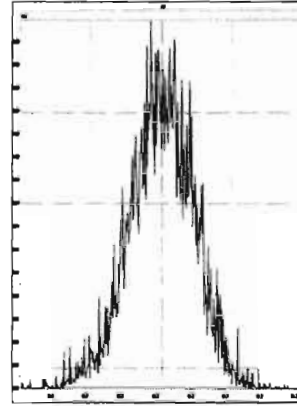
M 380.9760 R 10186



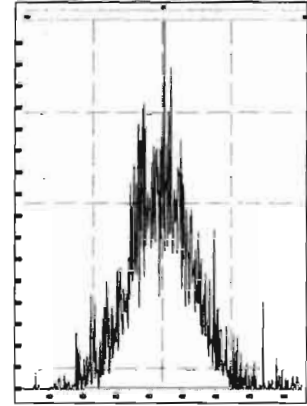
M 392.9760 R 10316



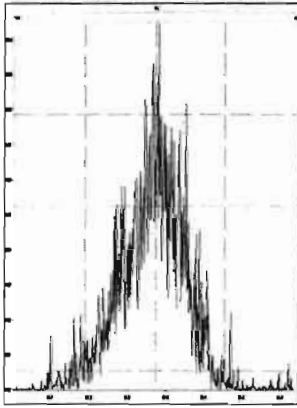
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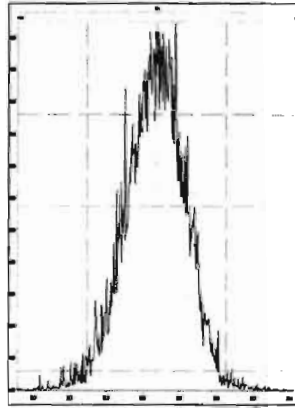
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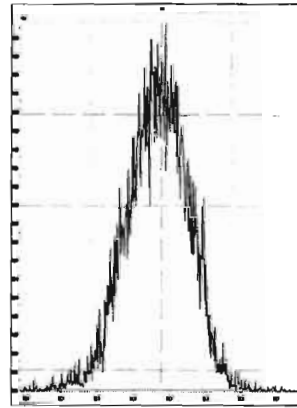
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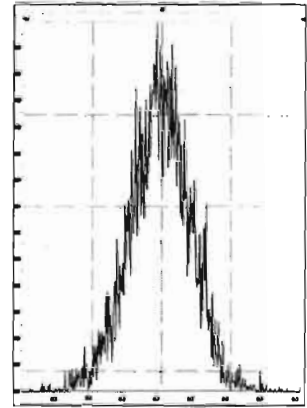
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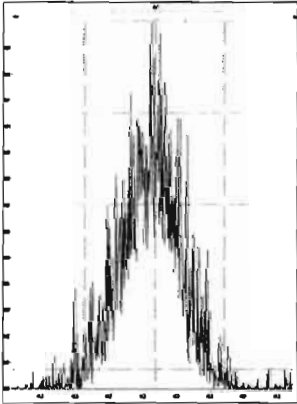
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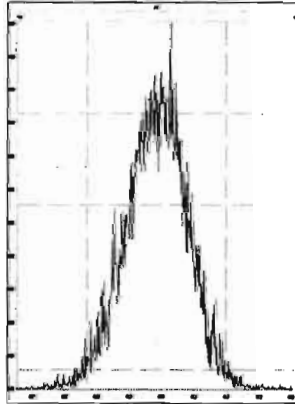
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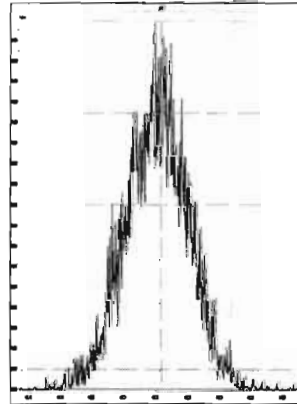
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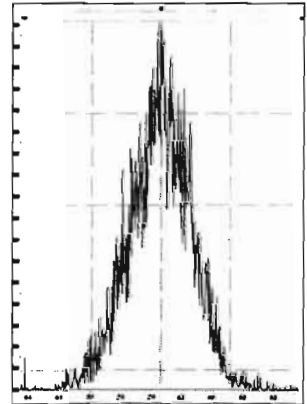
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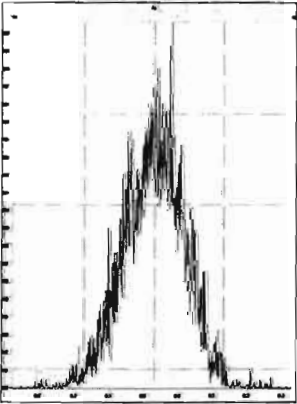
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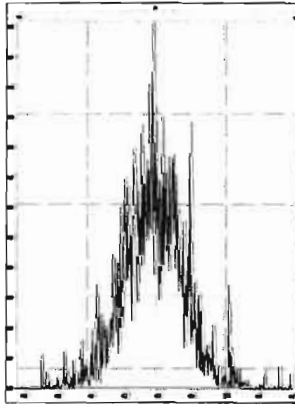
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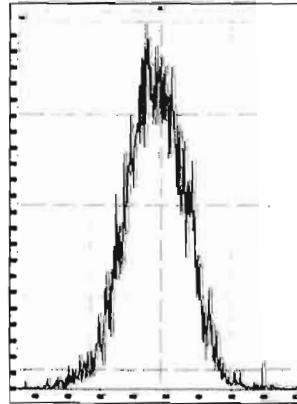
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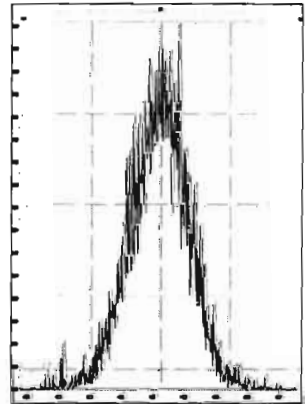
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M 430.9728 R 11037

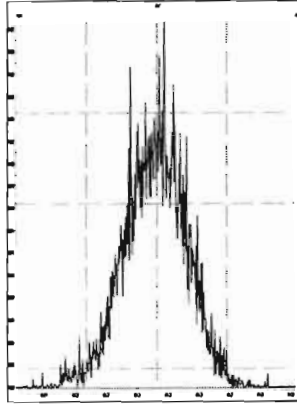


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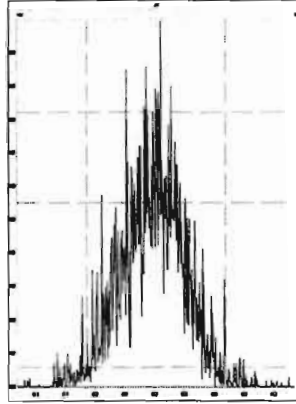


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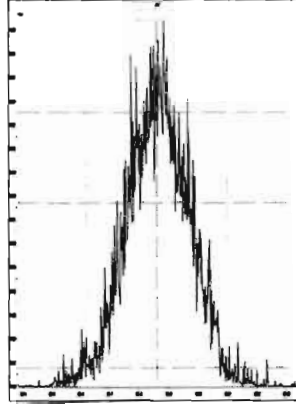
M 454.9728 R 11365



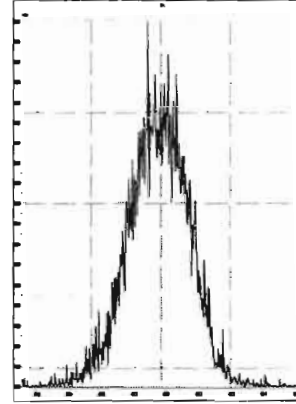
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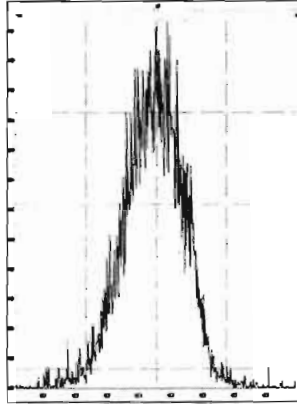
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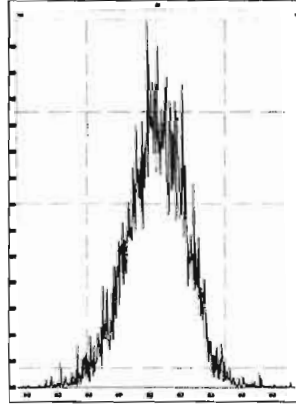
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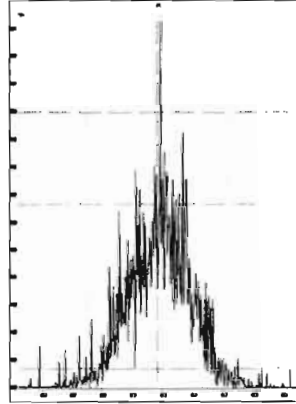
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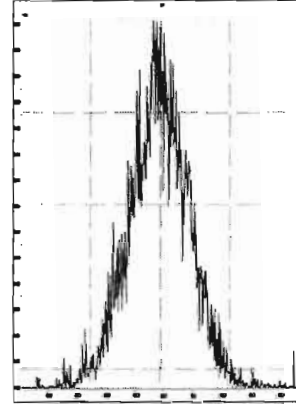
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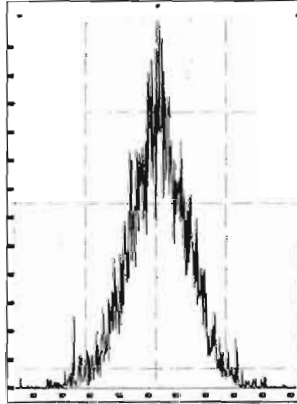
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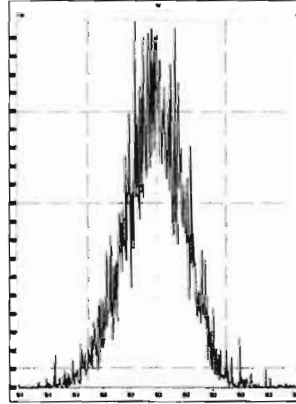
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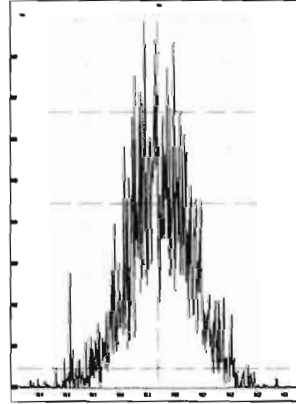
M 492.9696 R 12087



M 504.9696 R 11368



M 516.9697 R 12026



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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

Name: 201002R2\_2, Date: 02-Oct-2020, Time: 21:59:18, ID: ST201002R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.72
2	2 1,2,8,9-TCDD (Last)	27.31
3	3 1,2,4,7,9-PeCDD (First)	28.82
4	4 1,2,3,8,9-PeCDD (Last)	31.41
5	5 1,2,4,6,7,9-HxCDD (First)	32.73
6	6 1,2,3,7,8,9-HxCDD (Last)	34.77
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.26
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.23
9	9 1,3,6,8-TCDF (First)	20.47
10	10 1,2,8,9-TCDF (Last)	27.61
11	11 1,3,4,6,8-PeCDF (First)	27.19
12	12 1,2,3,8,9-PeCDF (Last)	31.78
13	13 1,2,3,4,6,8-HxCDF (First)	32.20
14	14 1,2,3,7,8,9-HxCDF (Last)	35.29
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.87
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.85



Dataset: Untitled

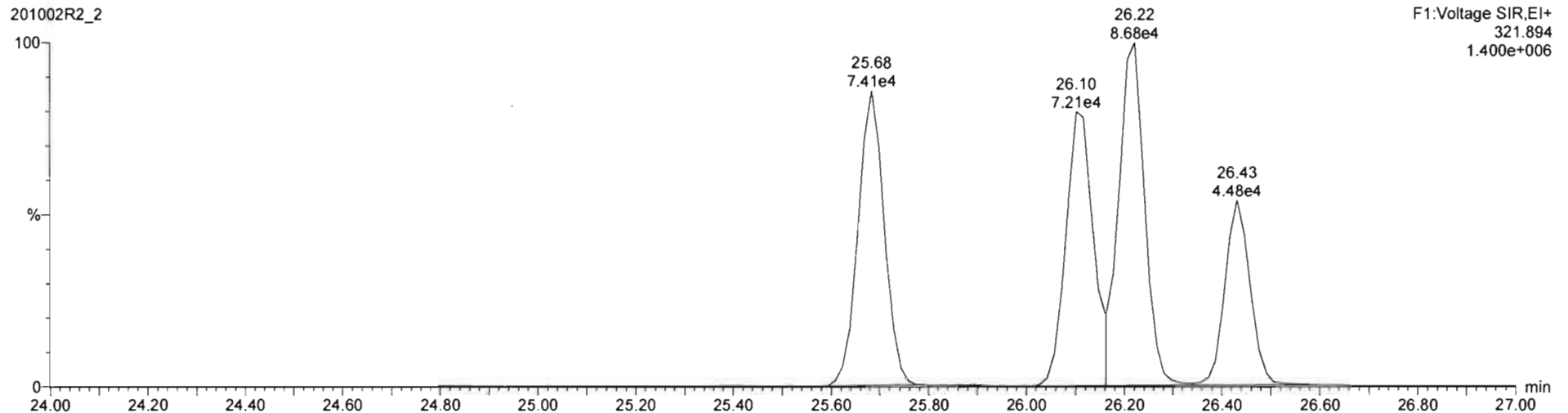
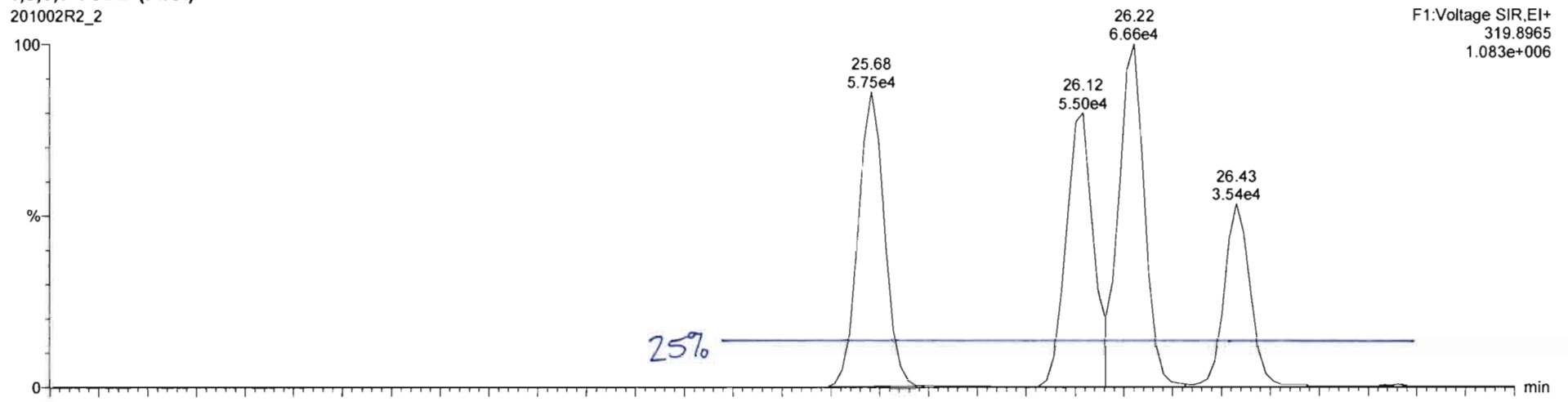
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*GRB 10/03/2020*

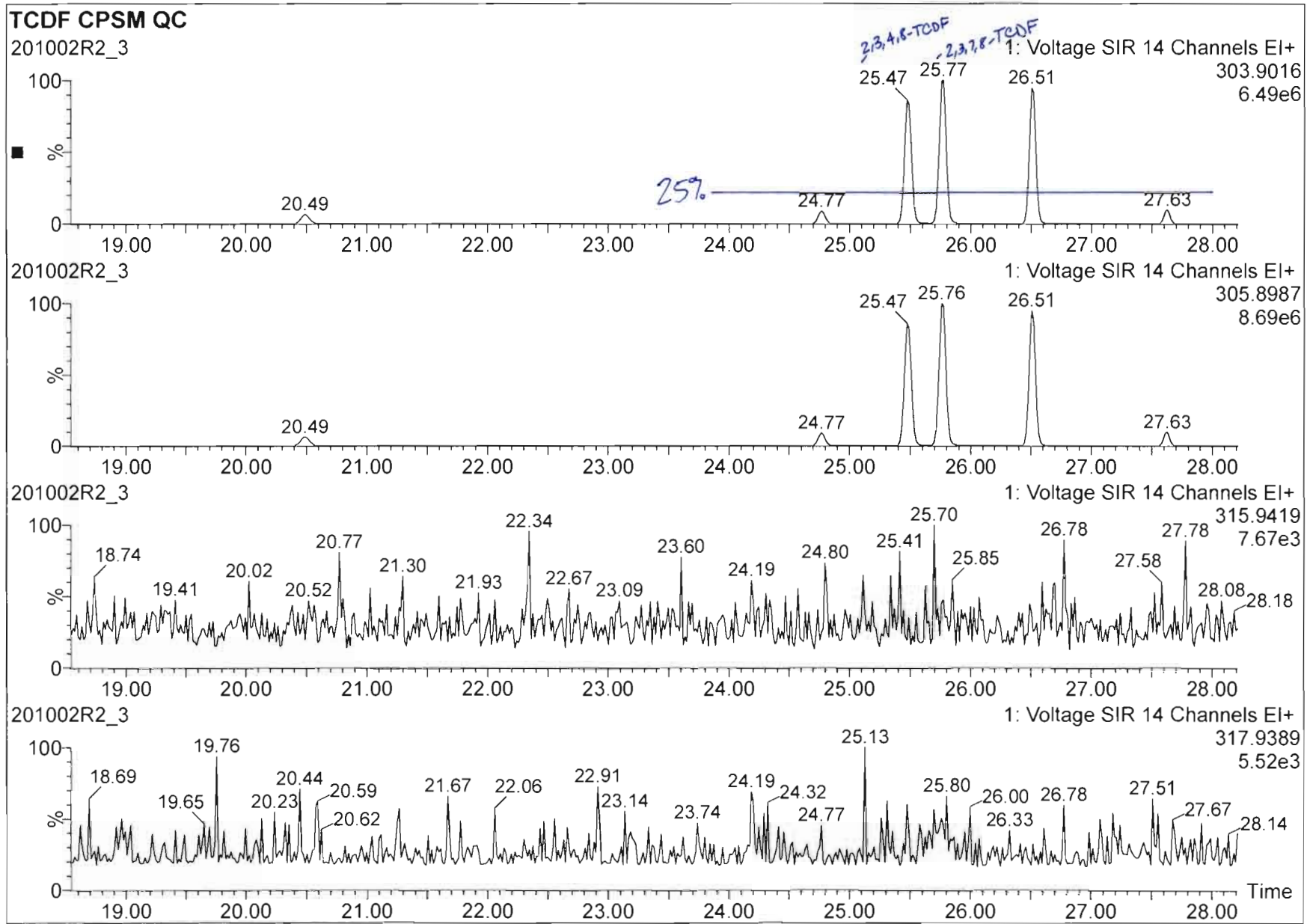
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Name: 201002R2\_2, Date: 02-Oct-2020, Time: 21:59:18, ID: ST201002R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

1,3,6,8-TCDD (First)  
201002R2\_2



GRB 10/03/2020



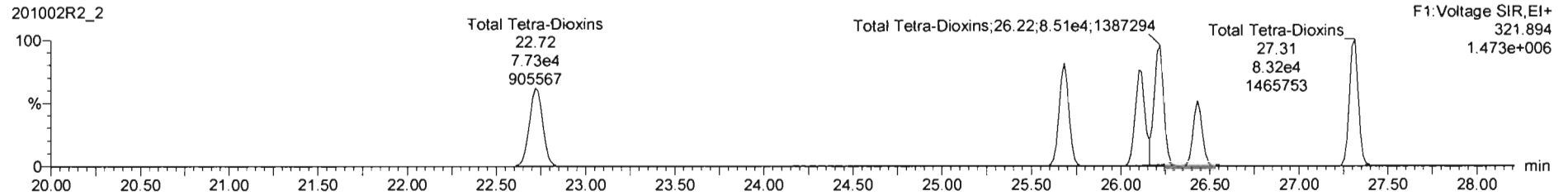
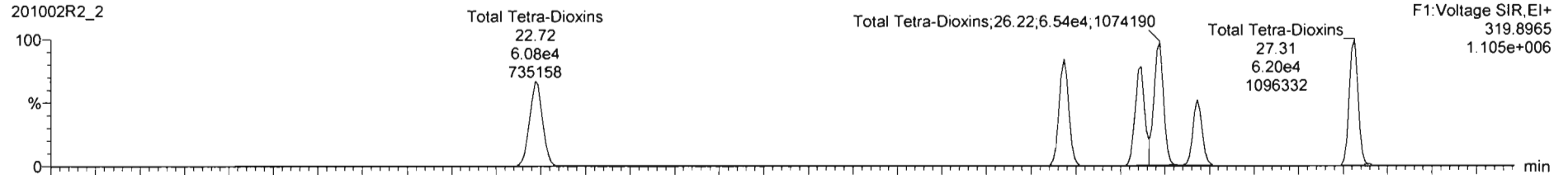
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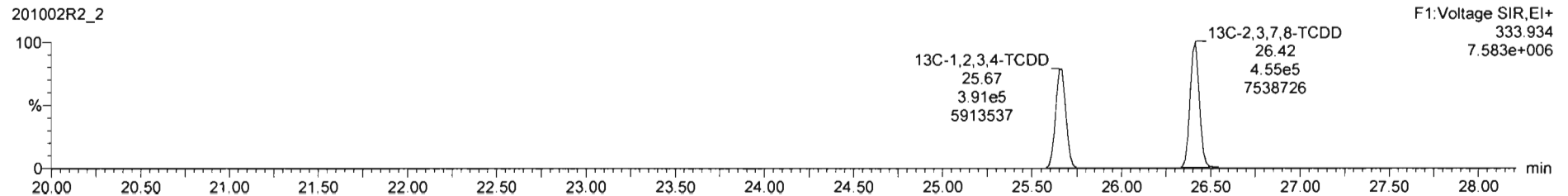
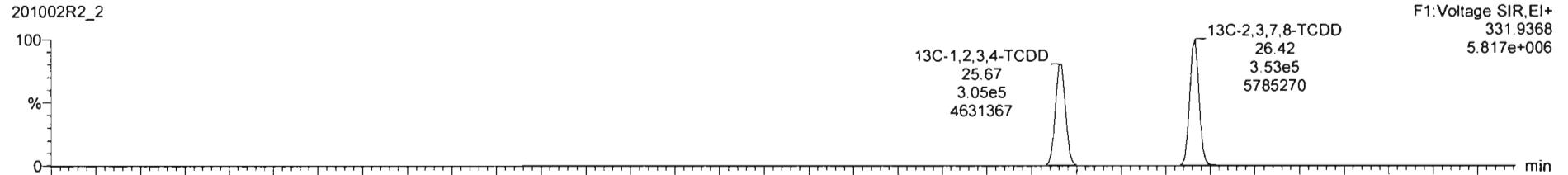
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2,3,7,8-TCDD



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



Dataset: Untitled

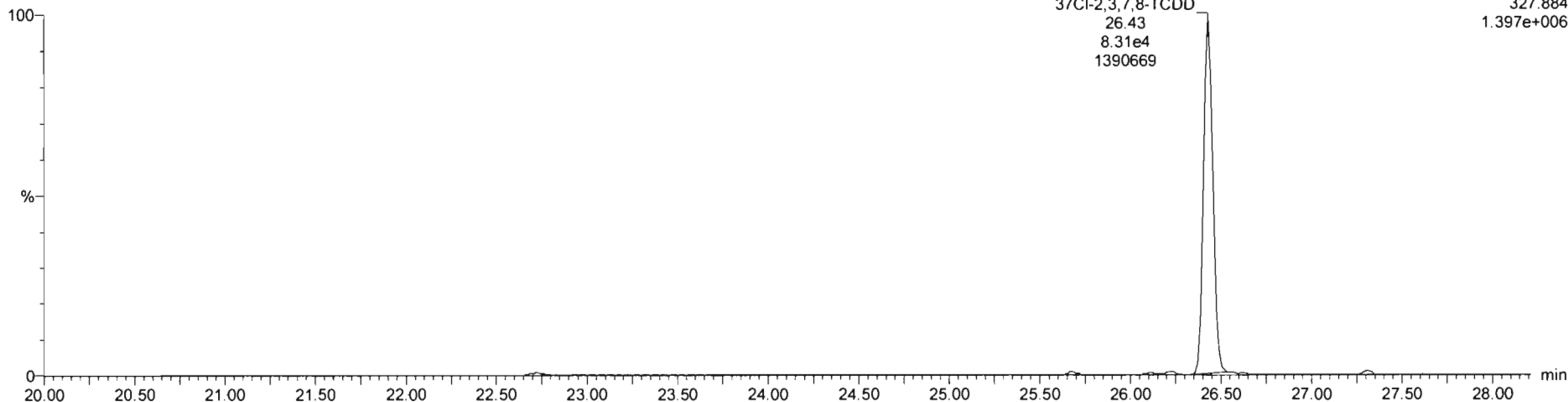
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**37Cl-2,3,7,8-TCDD**

201002R2\_2

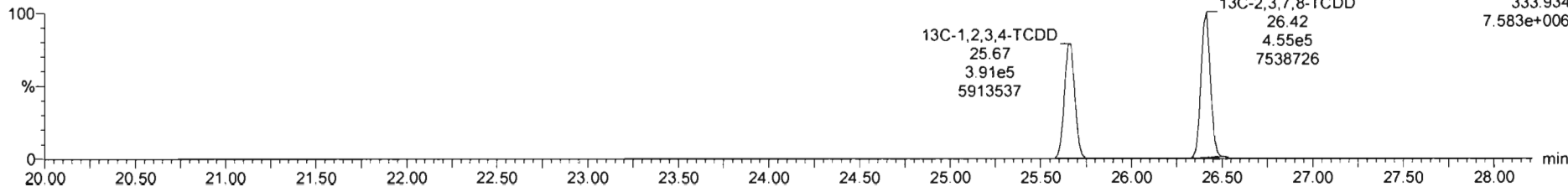


**13C-1,2,3,4-TCDD**

201002R2\_2



201002R2\_2



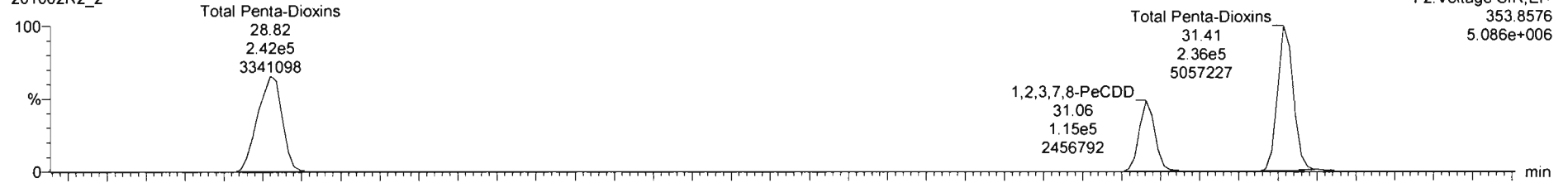
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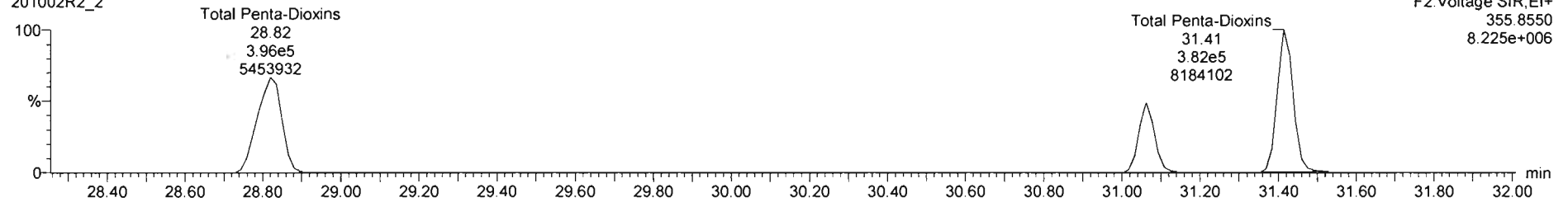
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1,2,3,7,8-PeCDD

201002R2\_2

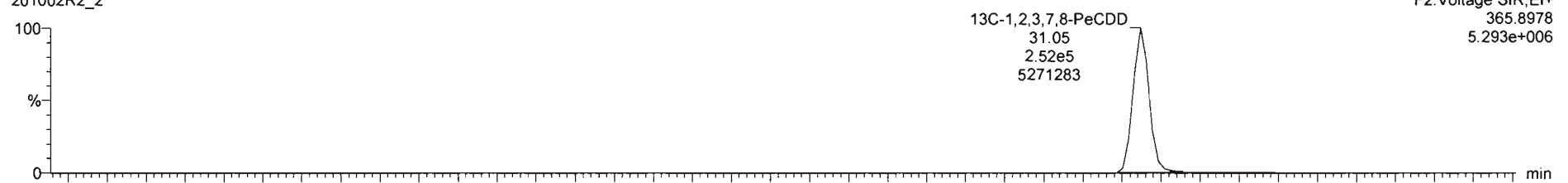


201002R2\_2

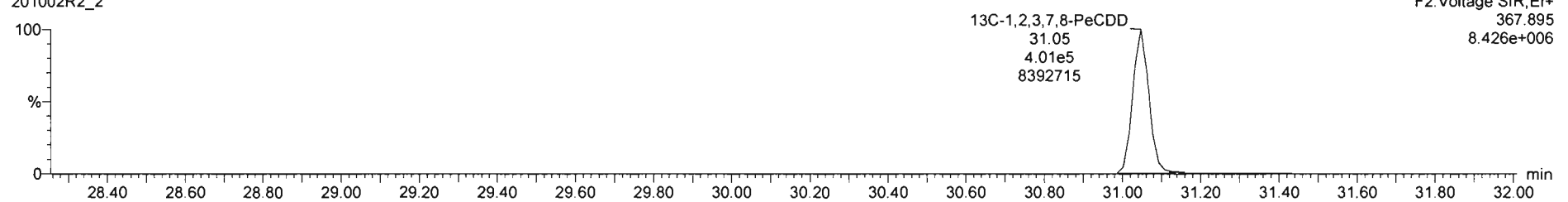


13C-1,2,3,7,8-PeCDD

201002R2\_2



201002R2\_2



Dataset: Untitled

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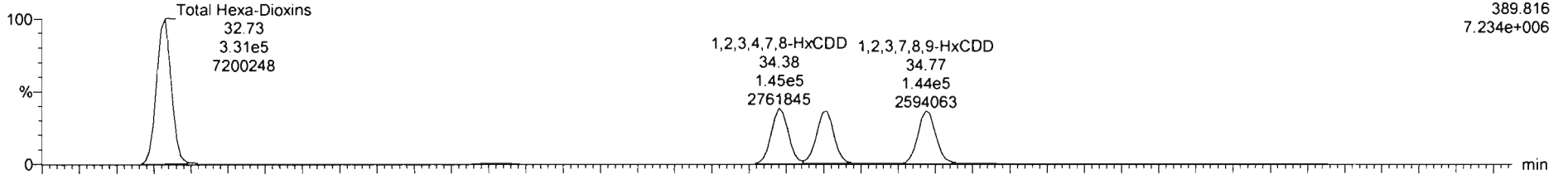
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1,2,3,4,7,8-HxCDD

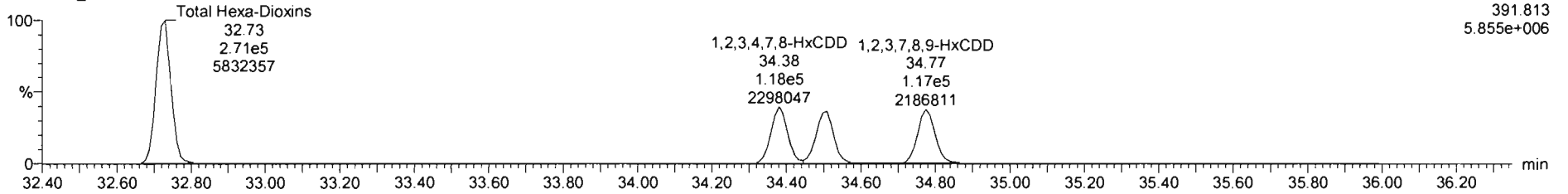
201002R2\_2

F3:Voltage SIR,EI+



201002R2\_2

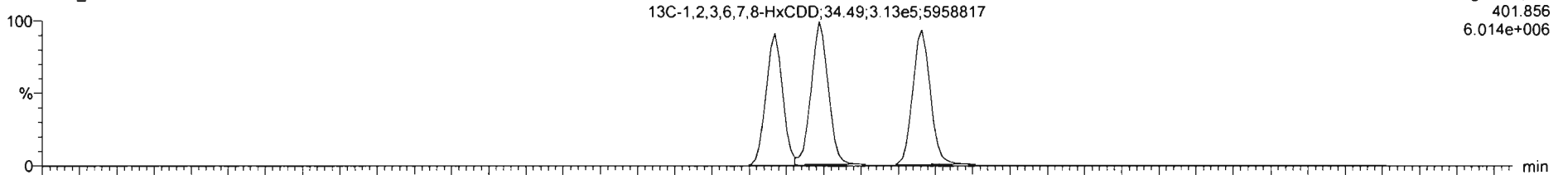
F3:Voltage SIR,EI+



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

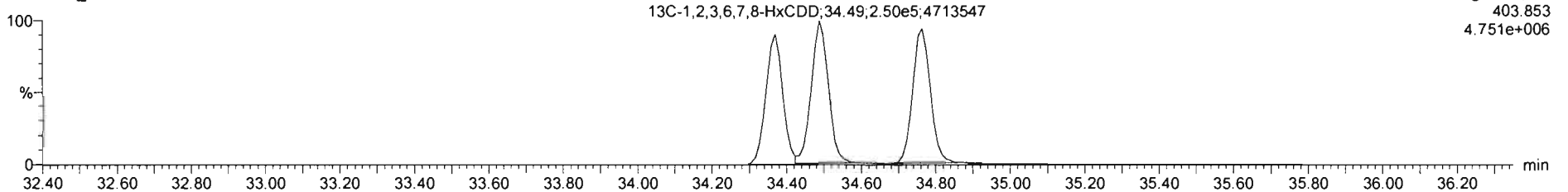
201002R2\_2

F3:Voltage SIR,EI+



201002R2\_2

F3:Voltage SIR,EI+



Dataset: Untitled

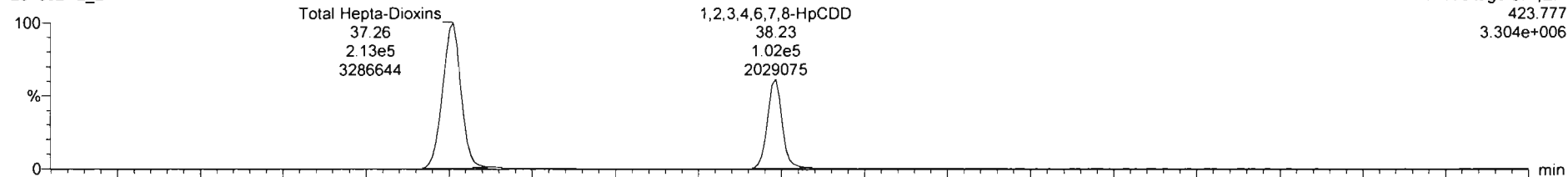
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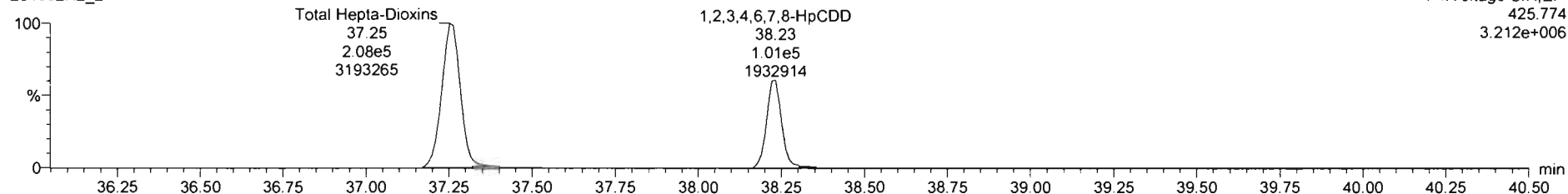
**1,2,3,4,6,7,8-HpCDD**

201002R2\_2



F4: Voltage SIR, EI+  
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3.304e+006

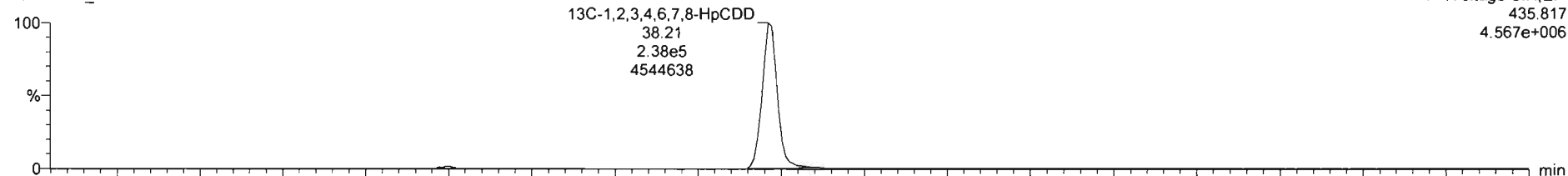
201002R2\_2



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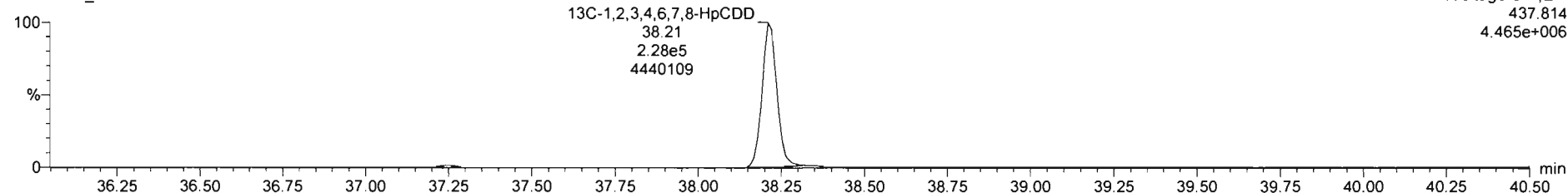
**13C-1,2,3,4,6,7,8-HpCDD**

201002R2\_2



F4: Voltage SIR, EI+  
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4.567e+006

201002R2\_2



F4: Voltage SIR, EI+  
437.814  
4.465e+006

Dataset: Untitled

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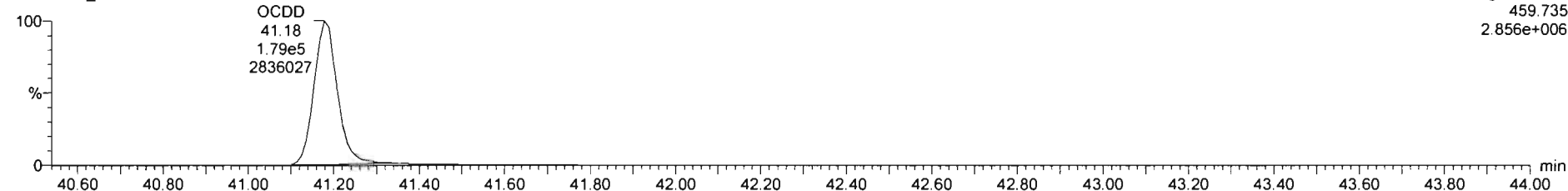
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OCDD

201002R2\_2

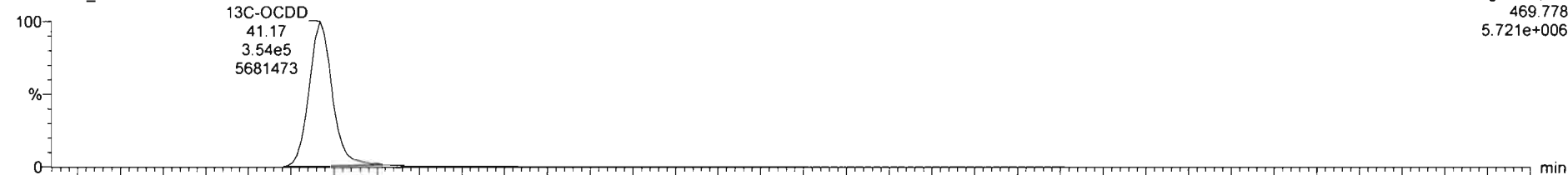


201002R2\_2

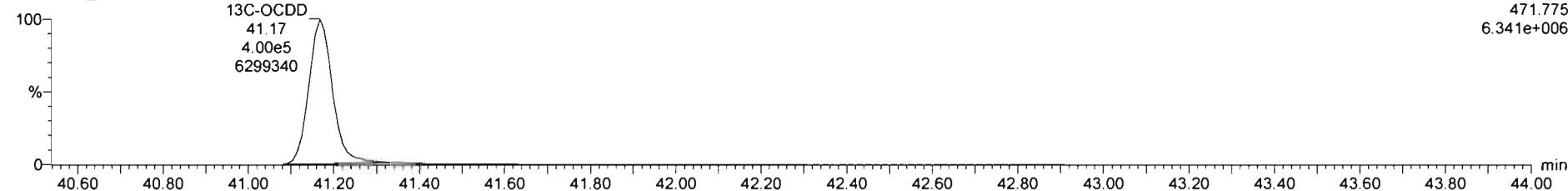


13C-OCDD

201002R2\_2



201002R2\_2





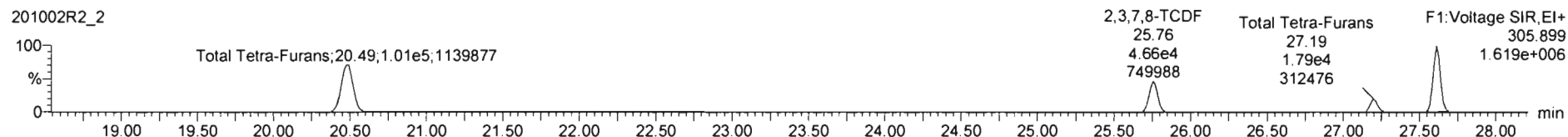
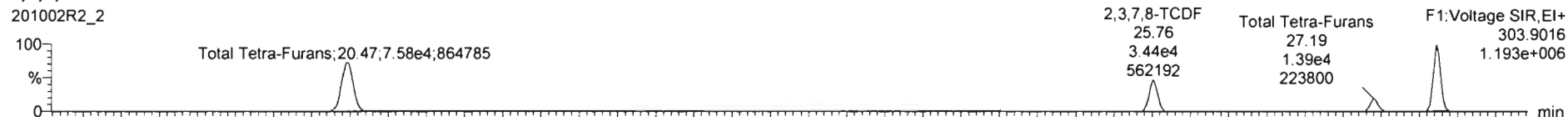
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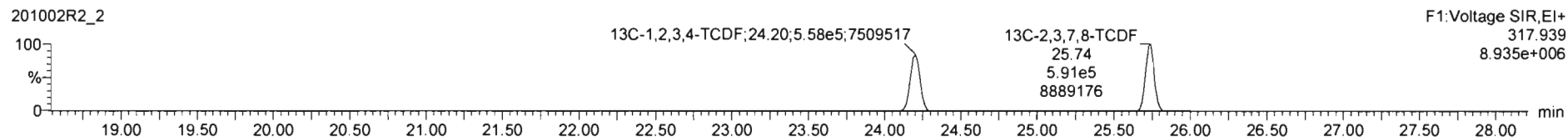
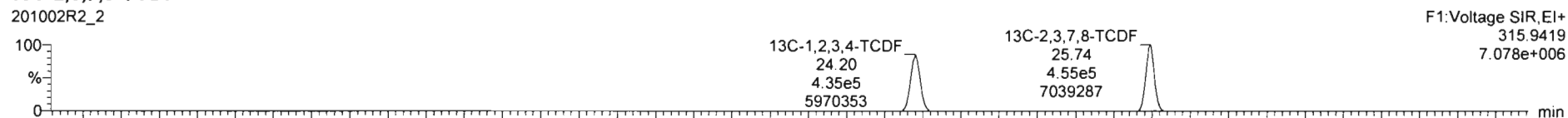
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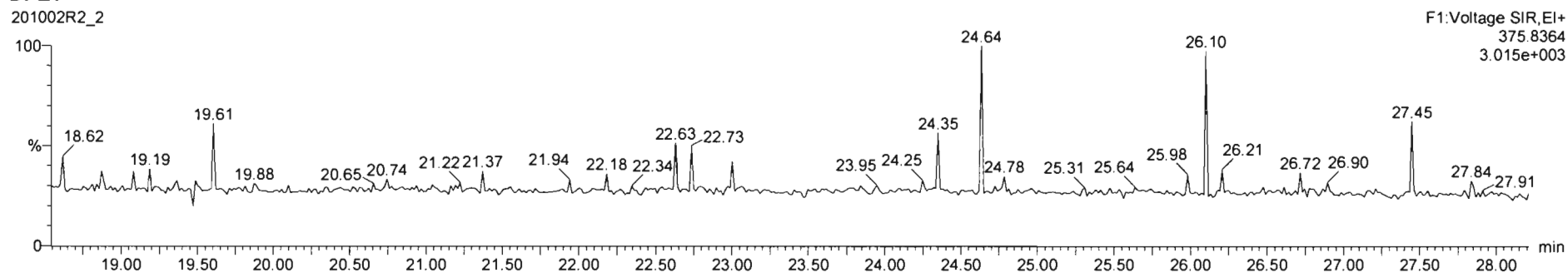
### 2,3,7,8-TCDF



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



### DPE1



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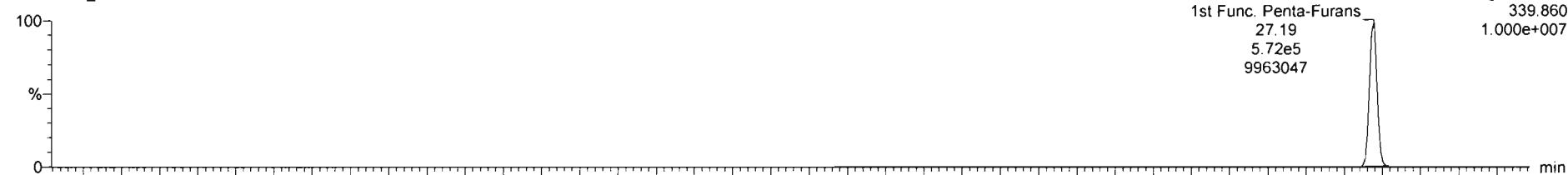
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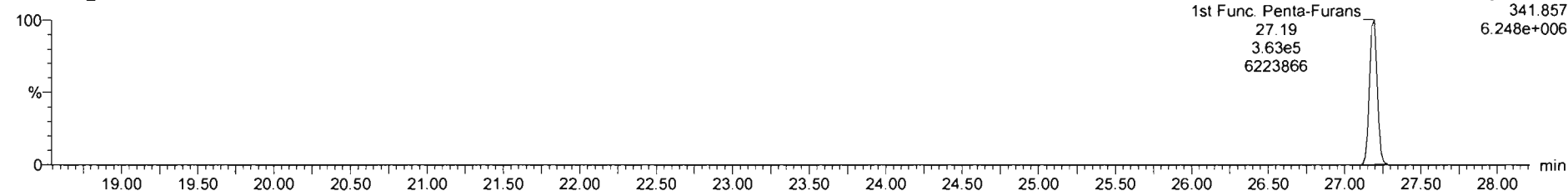
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201002R2\_2

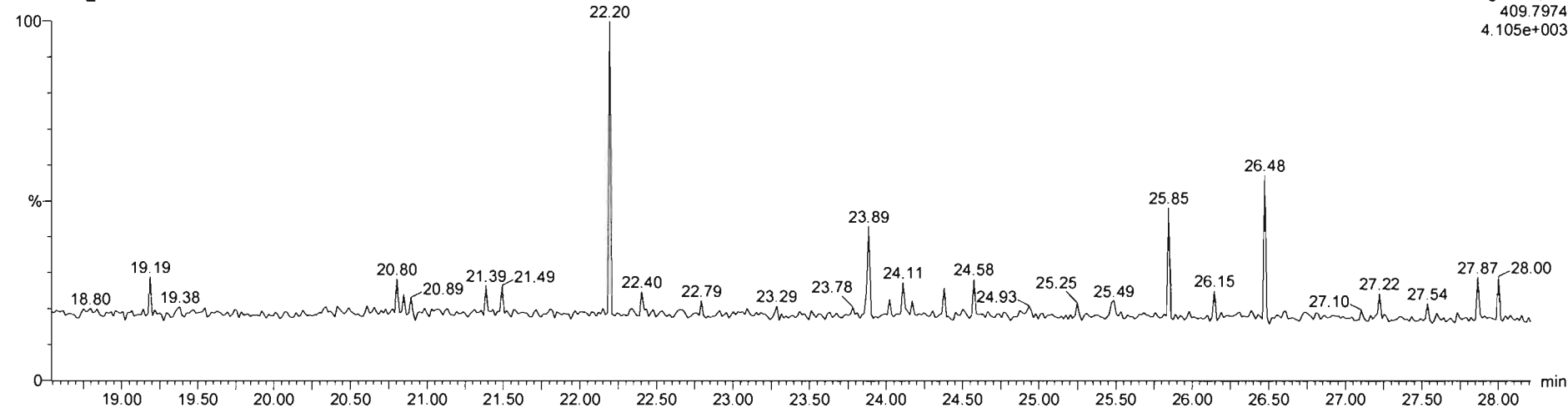


201002R2\_2



DPE6

201002R2\_2



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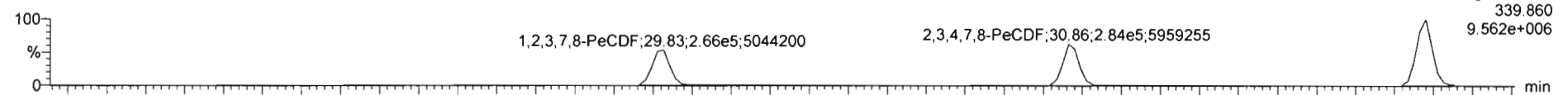
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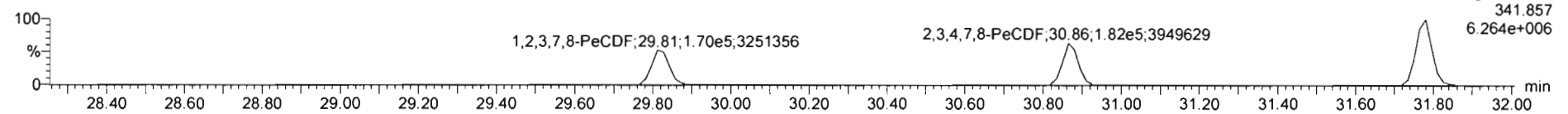
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**1,2,3,7,8-PeCDF**

201002R2\_2

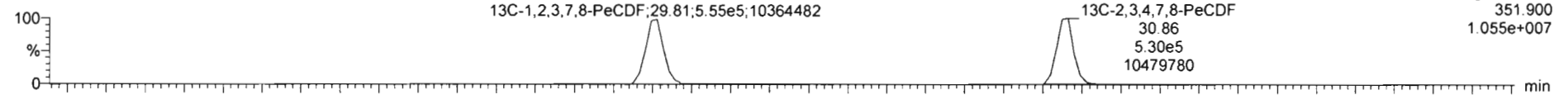


201002R2\_2

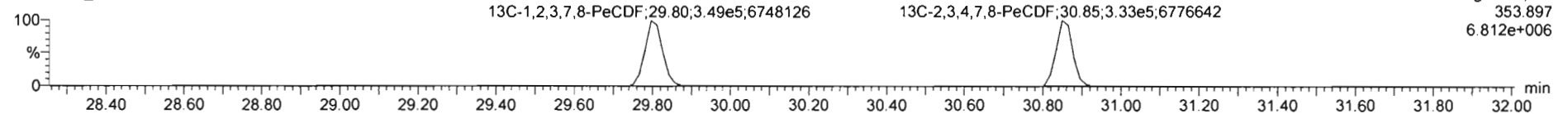


**13C-1,2,3,7,8-PeCDF**

201002R2\_2

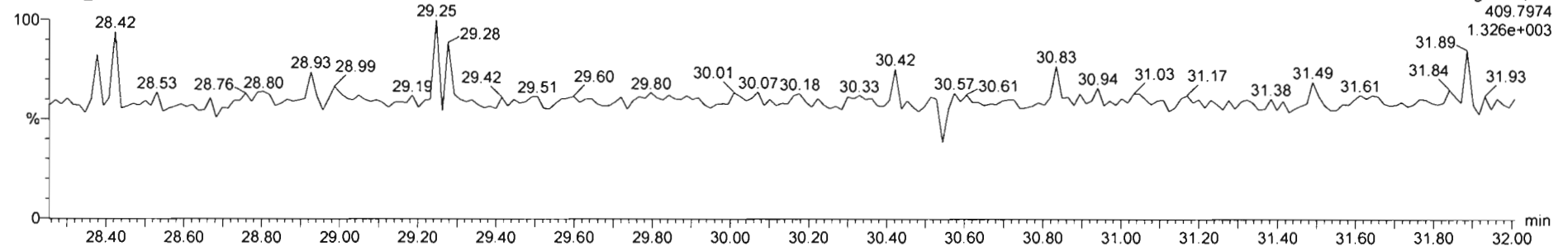


201002R2\_2



**DPE2**

201002R2\_2



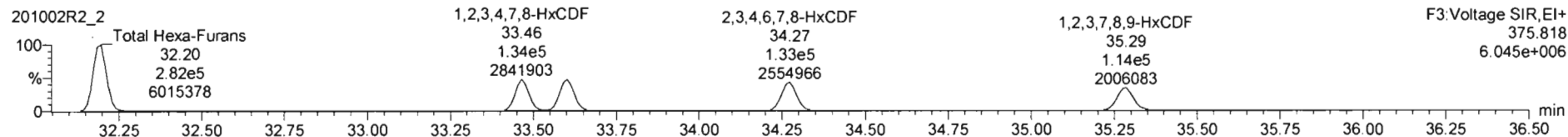
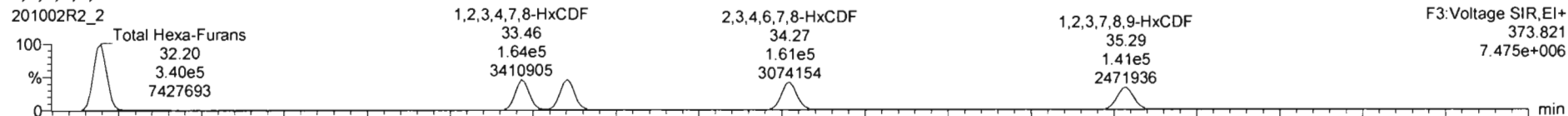
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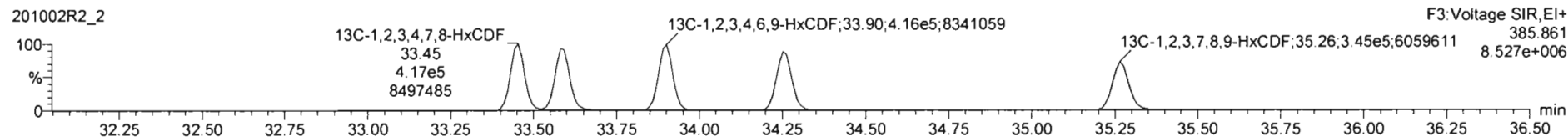
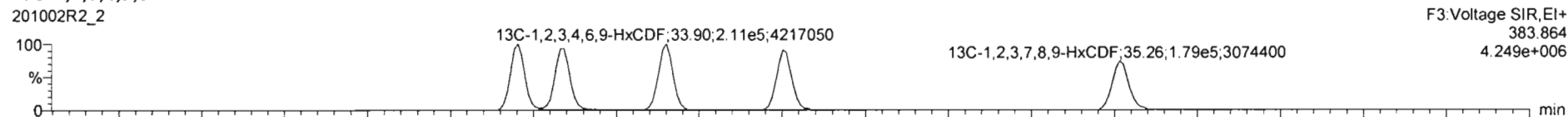
Printed: Saturday, October 03, 2020 10:29:04 AM Pacific Daylight Time

Name: 201002R2\_2, Date: 02-Oct-2020, Time: 21:59:18, ID: ST201002R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

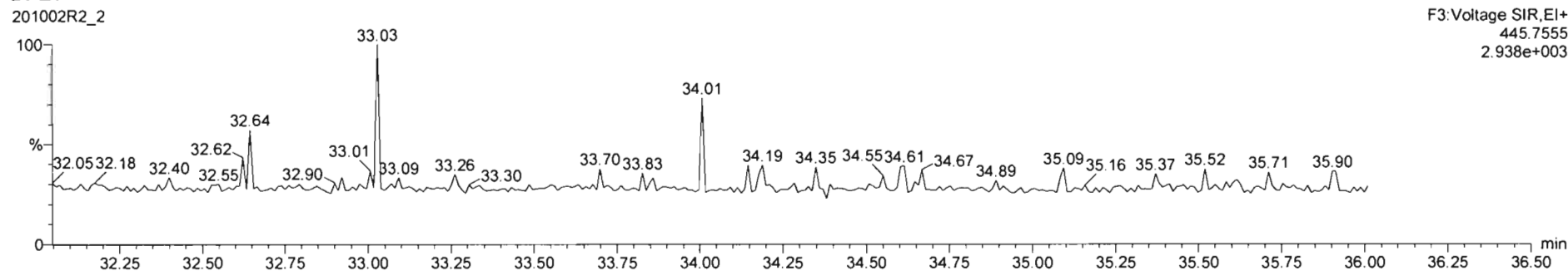
1,2,3,4,7,8-HxCDF



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

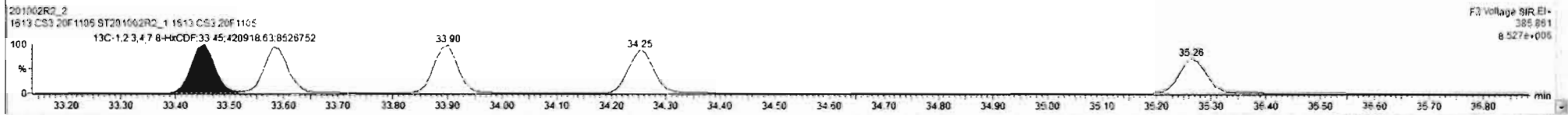
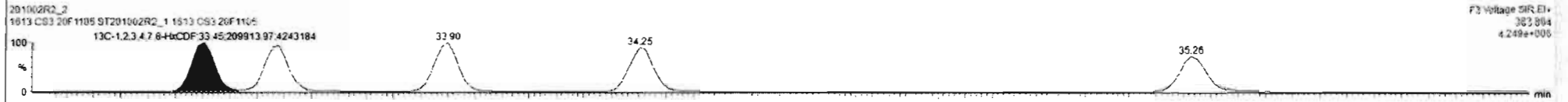
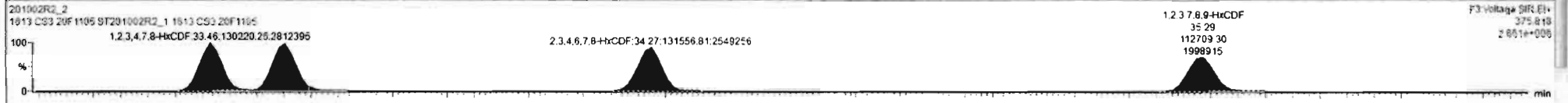
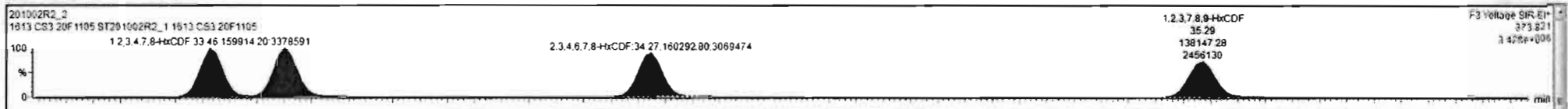


DPE3



201002R2\_2 - ST201002R2\_1 1613 CS3 20F1105 - 1613 CS3 20F1105

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
38	13C-1,2,3,4,6,9-HxCDF	6.27e5	6.27e5	0.51	0.51	NO	1.0000	33.52	33.96	NO	1.000	1.000	100	100	YES
39	Total Tetra-Dioxins		8.08e5				1.0100	24.62		NO	0.000		93.7		NO
40	Total Penta-Dioxins		6.52e5				0.5561	29.96		NO	0.000		250		NO
41	Total Hexa-Dioxins		0.00e0				0.5875	35.83		NO	0.000		283		NO
42	Total Hepta-Dioxins		4.66e5				0.8316	37.64		NO	0.000		161		NO
43	Total Tetra-Furans		1.05e0				0.7353	23.61		NO	0.000		57.8		NO
44	1st Func. Penta-Furans		0.00e0				0.9386	27.23		NO	0.000		113		NO
45	Total Penta-Furans		0.00e0				0.9386	29.27		NO	0.000		194		NO
46	Total Hexa-Furans		0.00e0				0.6699	33.56		NO	0.000		345		NO
47	Total Hepta-Furans		0.00e0				0.5908	37.83		NO	0.000		109		NO
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														
53	DPE1														
54	DPE2														
55	DPE3														
56	DPE4														
57	DPE5														
58	DPE6														



Dataset: Untitled

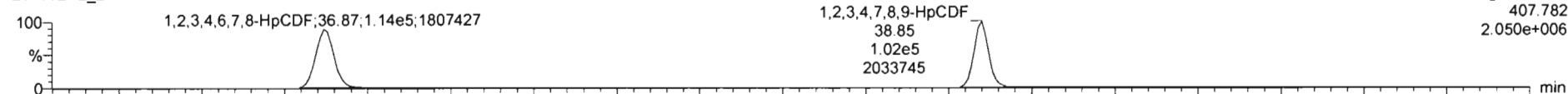
Last Altered: Saturday, October 03, 2020 10:28:56 AM Pacific Daylight Time

Printed: Saturday, October 03, 2020 10:29:04 AM Pacific Daylight Time

Name: 201002R2\_2, Date: 02-Oct-2020, Time: 21:59:18, ID: ST201002R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

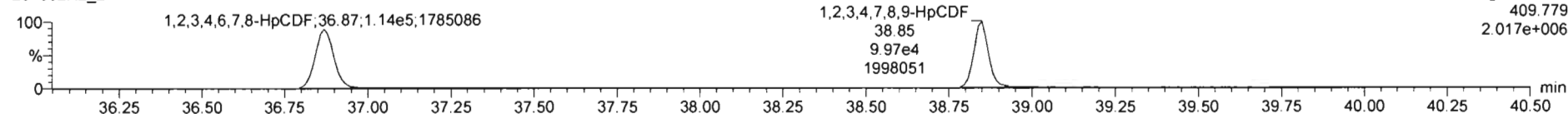
**1,2,3,4,6,7,8-HpCDF**

201002R2\_2



F4: Voltage SIR, EI+  
407.782  
2.050e+006

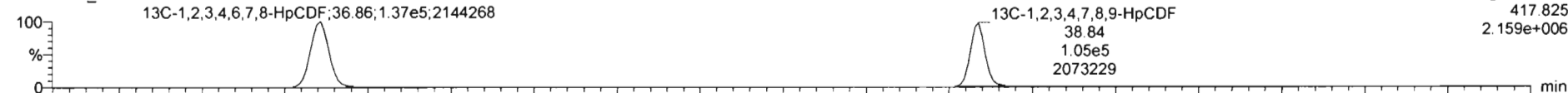
201002R2\_2



F4: Voltage SIR, EI+  
409.779  
2.017e+006

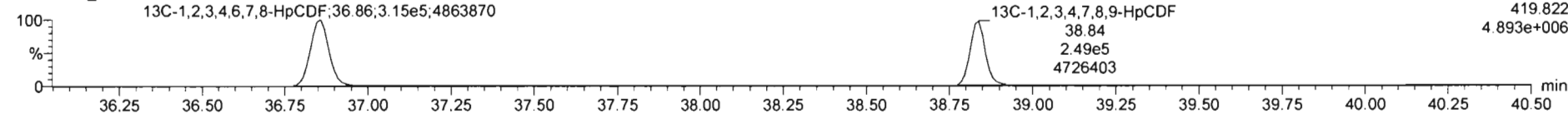
**13C-1,2,3,4,6,7,8-HpCDF**

201002R2\_2



F4: Voltage SIR, EI+  
417.825  
2.159e+006

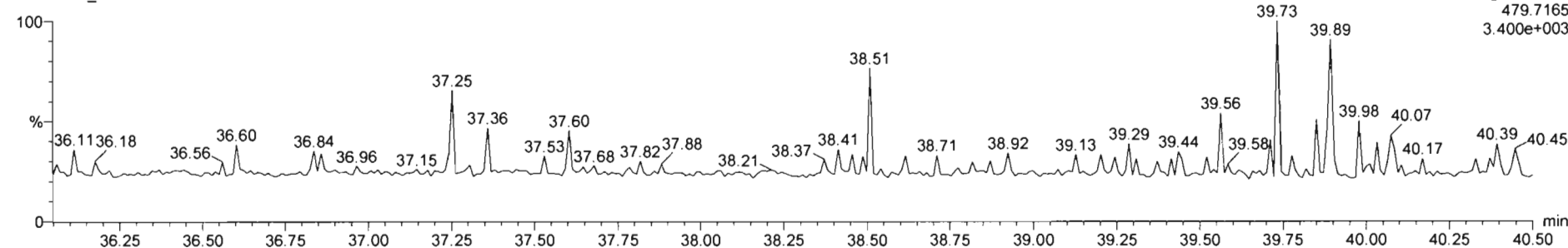
201002R2\_2



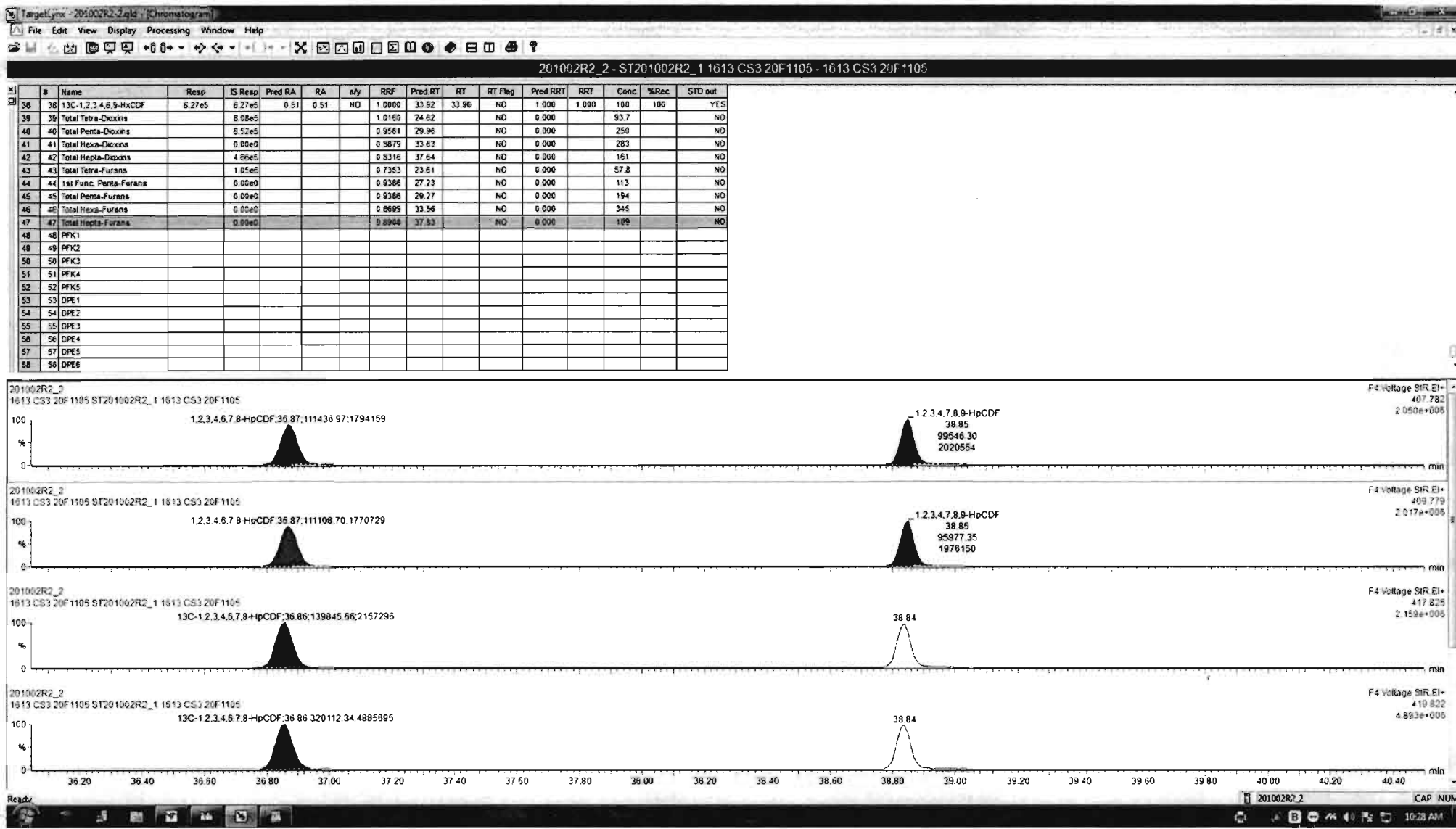
F4: Voltage SIR, EI+  
419.822  
4.893e+006

**DPE4**

201002R2\_2



F4: Voltage SIR, EI+  
479.7165  
3.400e+003



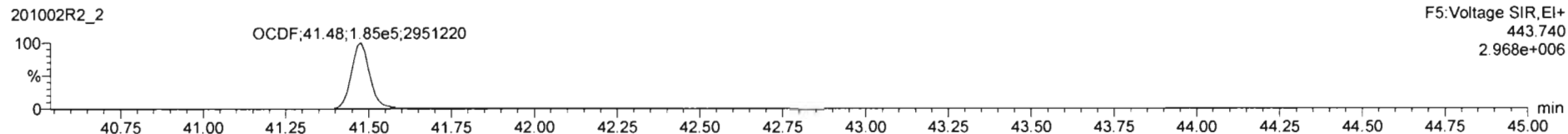
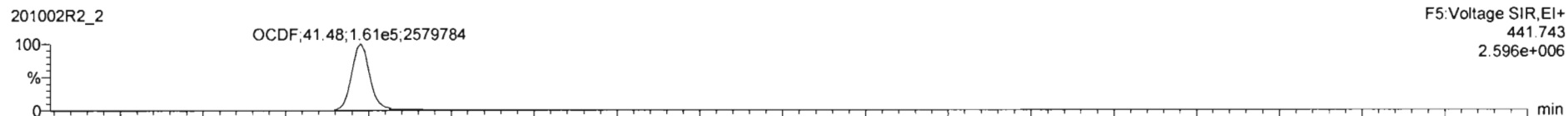
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Last Altered: Saturday, October 03, 2020 10:28:56 AM Pacific Daylight Time

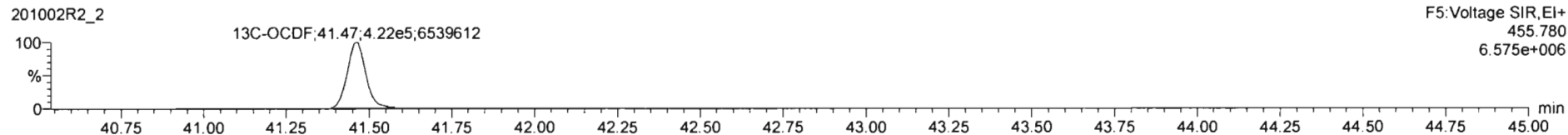
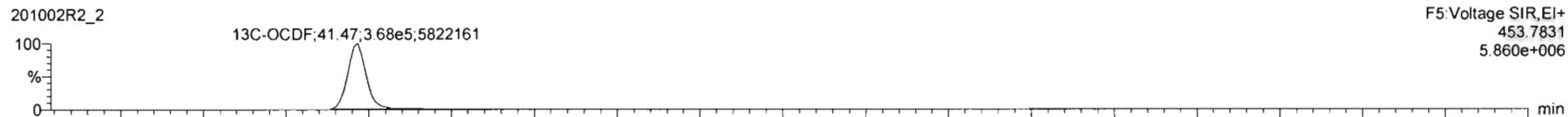
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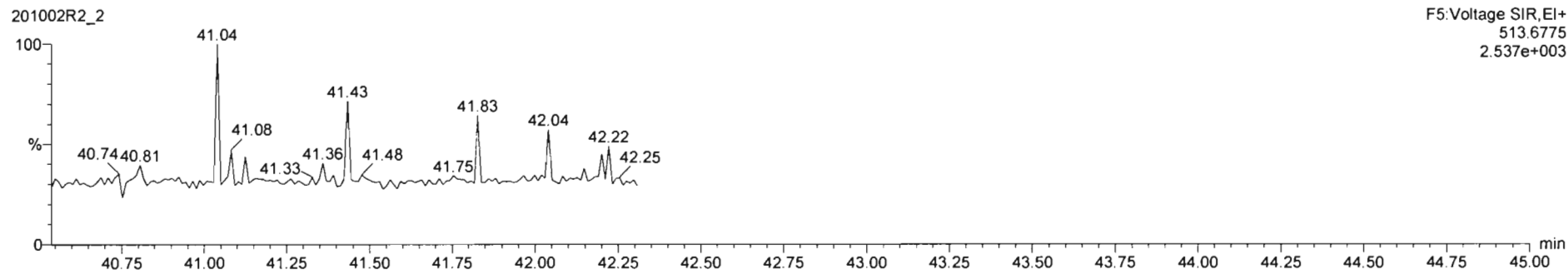
OCDF



13C-OCDF



DPE5



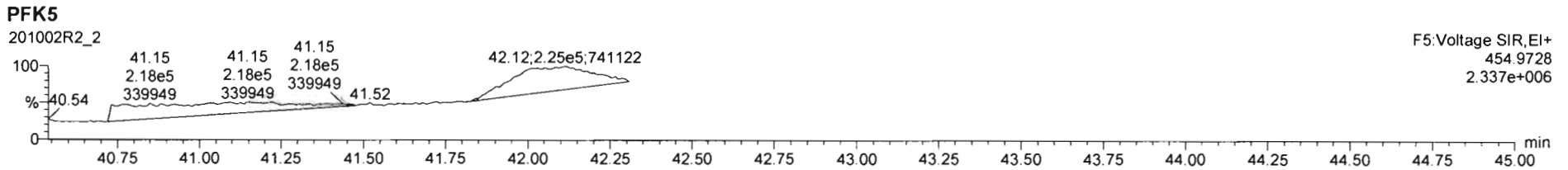
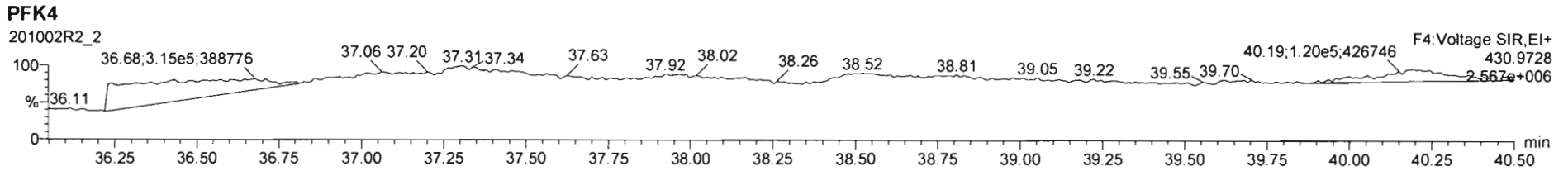
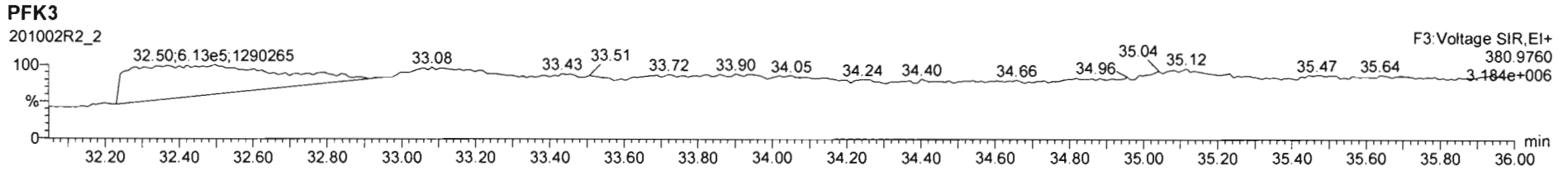
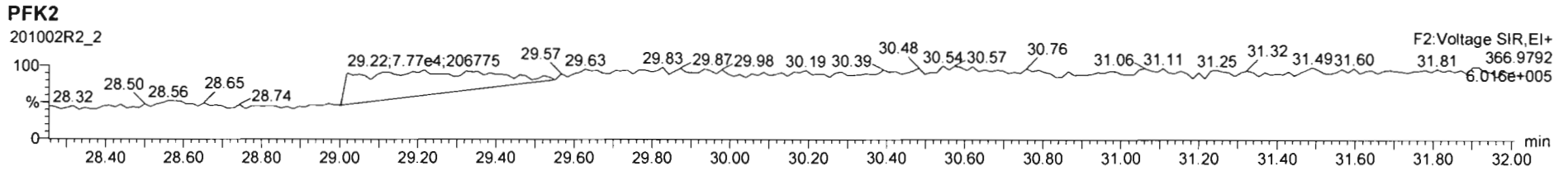
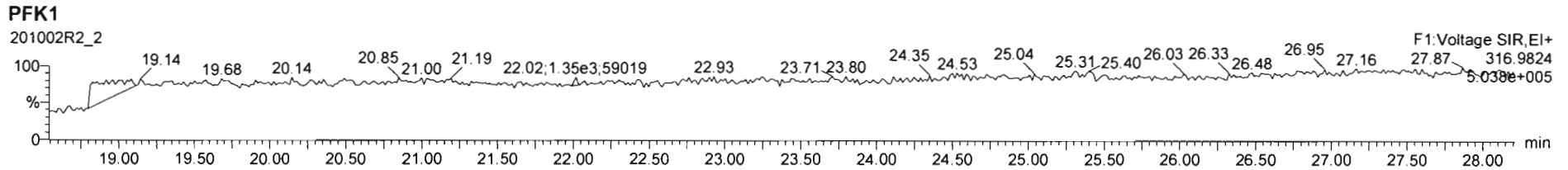


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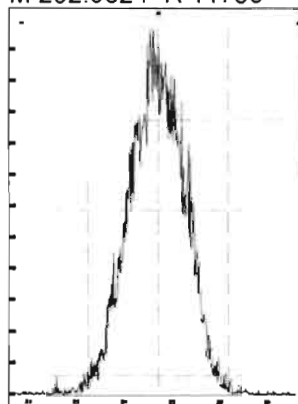
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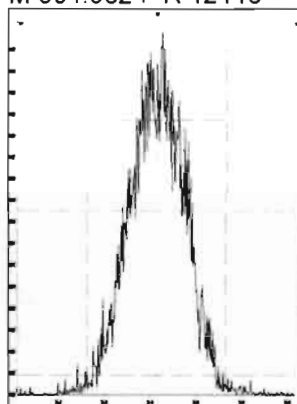


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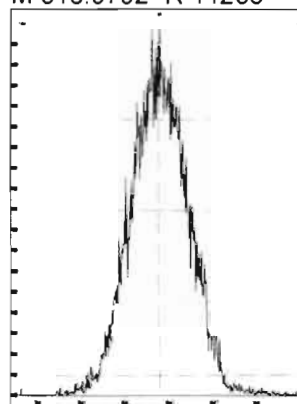
M 292.9824 R 11765



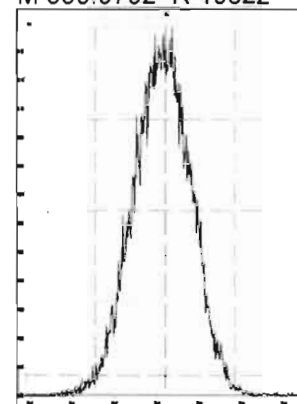
M 304.9824 R 12118



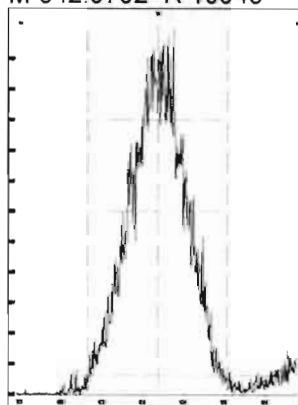
M 318.9792 R 11236



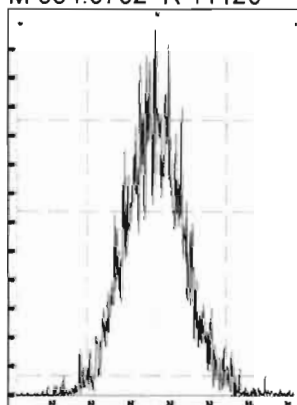
M 330.9792 R 10822



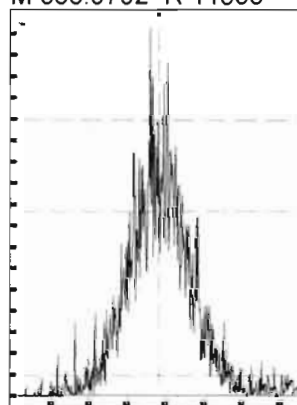
M 342.9792 R 10943



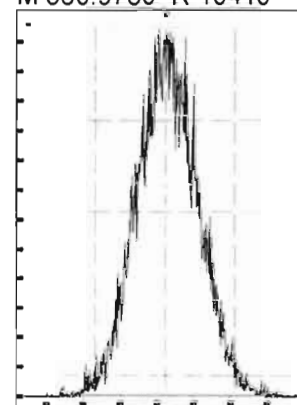
M 354.9792 R 11120



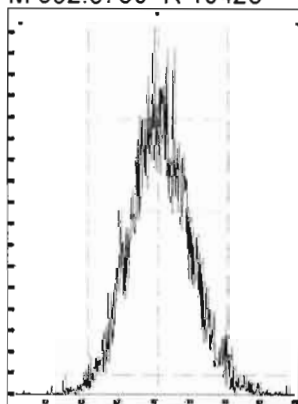
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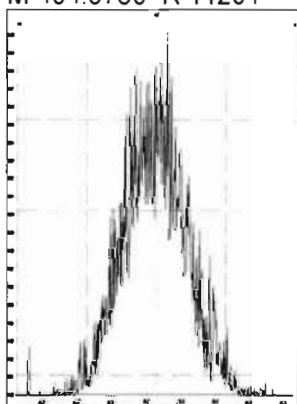
M 380.9760 R 10410



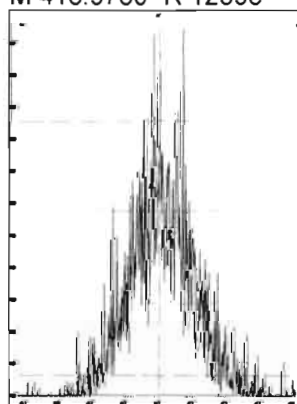
M 392.9760 R 10425



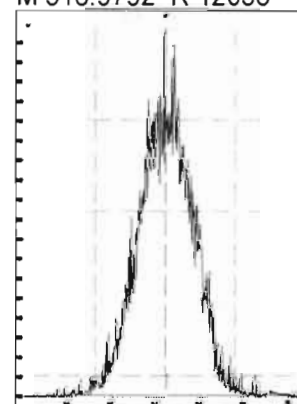
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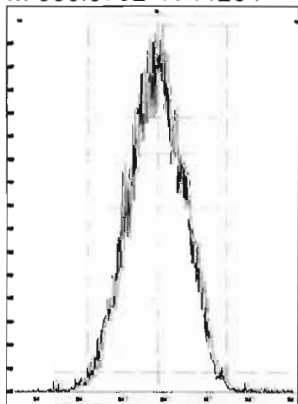
M 416.9760 R 12596



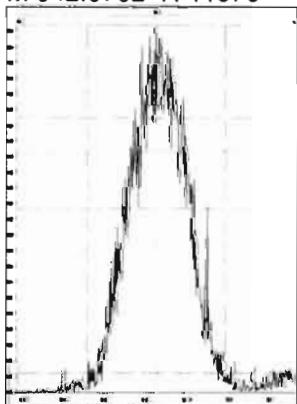
M 318.9792 R 12056



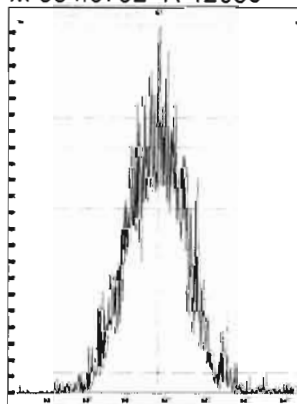
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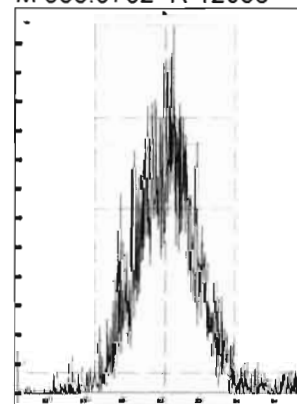
M 342.9792 R 11573



M 354.9792 R 12066

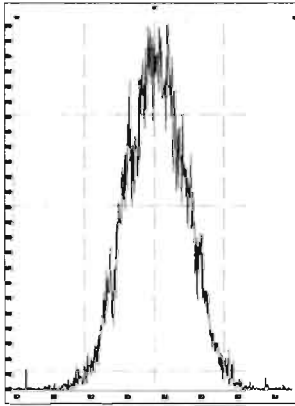


M 366.9792 R 12068

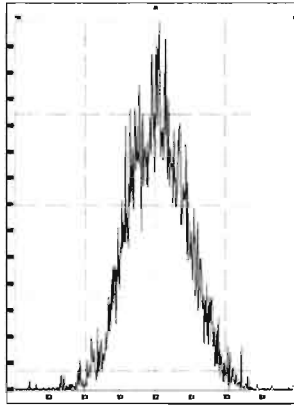


Printed: Saturday, October 03, 2020 08:28:14 Pacific Daylight Time

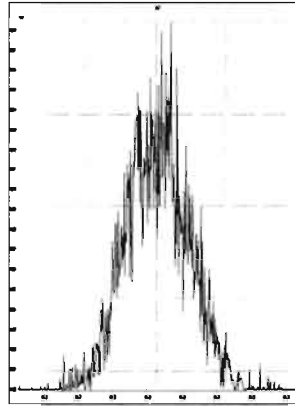
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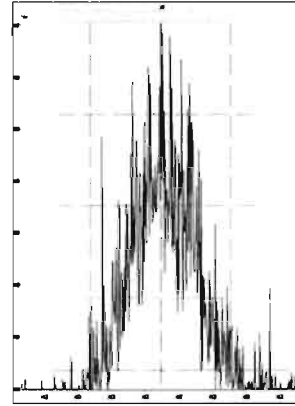
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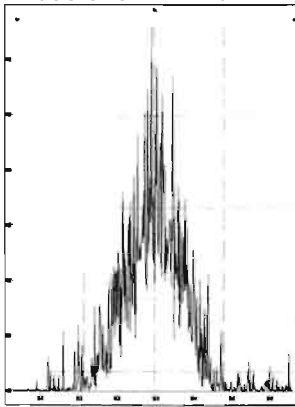
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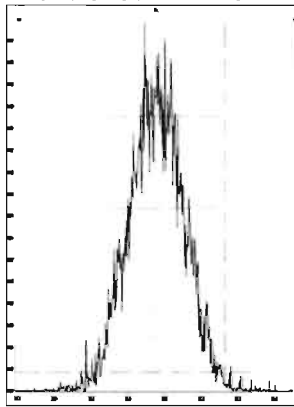
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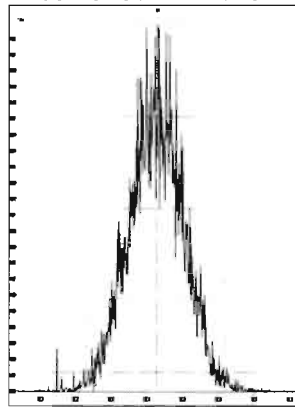
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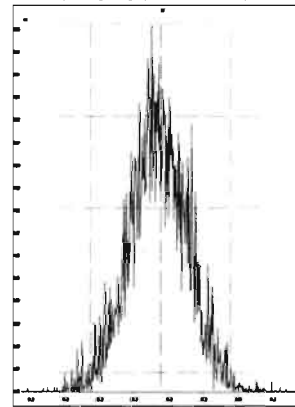
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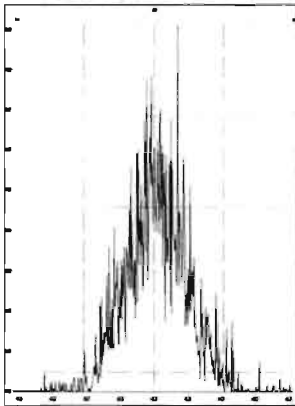
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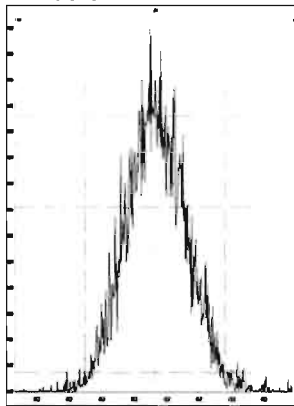
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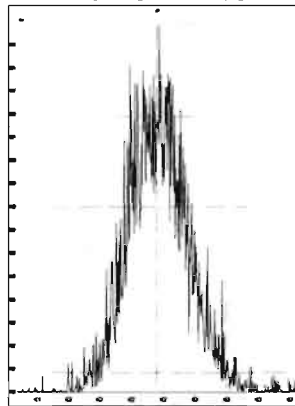
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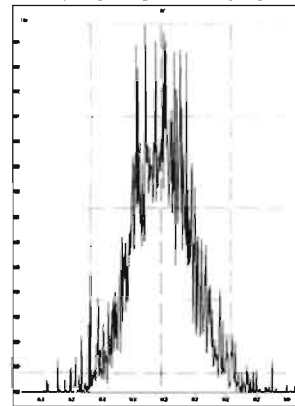
M 430.9728 R 11114



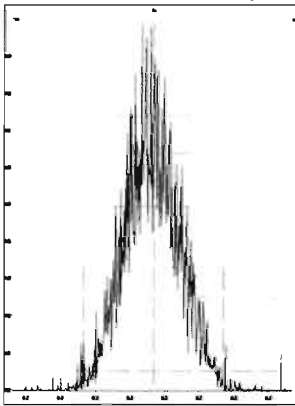
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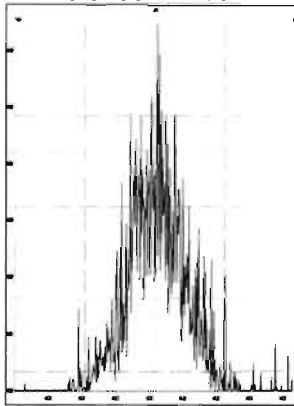
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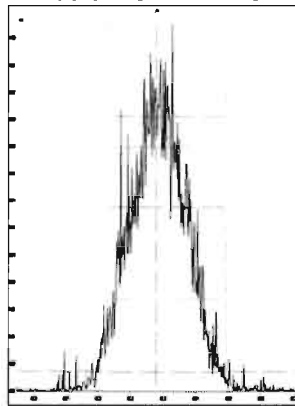
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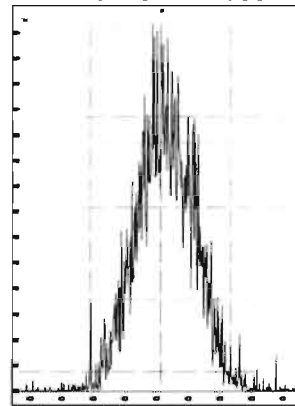
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M 430.9728 R 11448

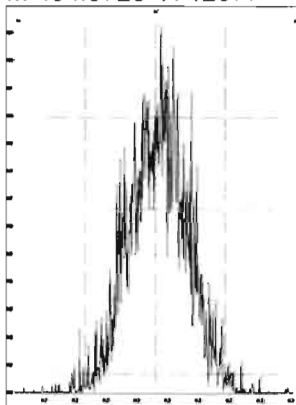


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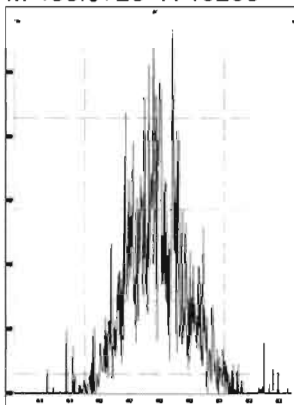


Printed: Saturday, October 03, 2020 08:28:14 Pacific Daylight Time

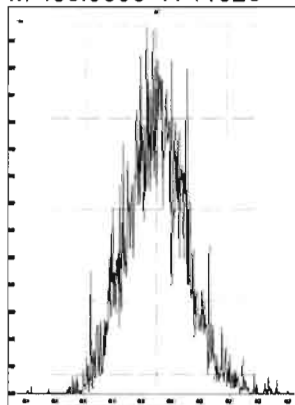
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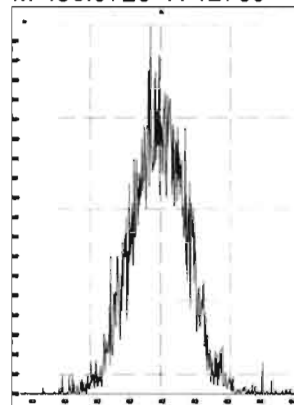
M 466.9728 R 13236



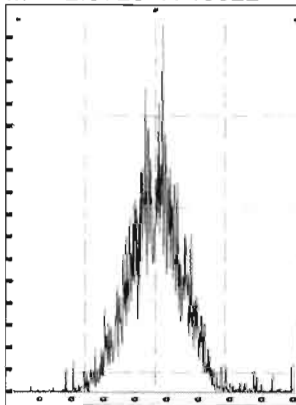
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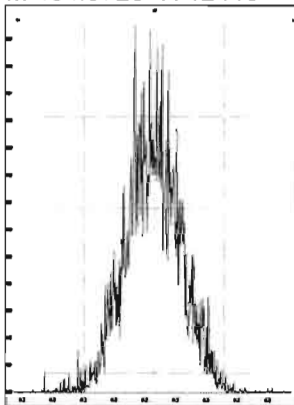
M 430.9728 R 12789



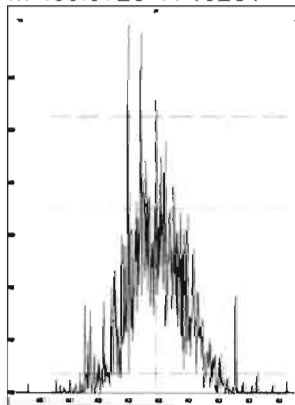
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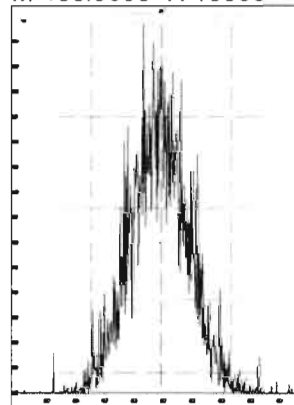
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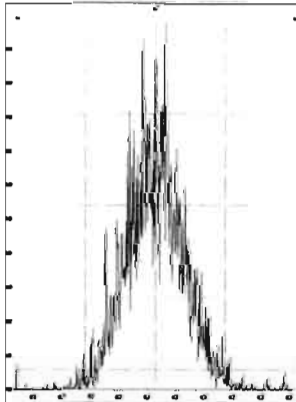
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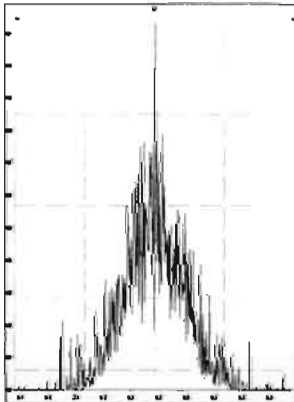
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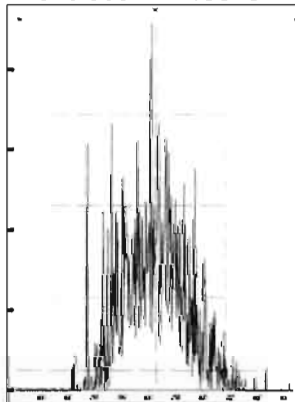
M 492.9696 R 12544



M 504.9696 R 11116



M 516.9697 R 18046



## **INITIAL CALIBRATION**

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Monday, September 21, 2020 11:11:58 Pacific Daylight Time  
Printed: Tuesday, September 22, 2020 11:05:19 Pacific Daylight Time

HN 09/22/2020

DB 9/22/20

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 21 Sep 2020 11:11:58

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

Response Factor: 1.01601

RRF SD: 0.0848141, Relative SD: 8.34778

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	200919R2_1	0.250	0.82	NO	26.52	1.001	2.85e3	1.17e6	0.239	-4.3	0.972	MM
2	200919R2_2	0.500	0.79	NO	26.51	1.001	5.80e3	1.26e6	0.454	-9.1	0.923	MM
3	200919R2_3	2.00	0.77	NO	26.51	1.001	2.66e4	1.40e6	1.87	-6.3	0.952	bb
4	200919R2_4	40.0	0.78	NO	26.51	1.001	5.99e5	1.37e6	42.9	7.3	1.09	MM
5	200919R2_5	300	0.78	NO	26.51	1.001	4.74e6	1.38e6	337	12.4	1.14	bb
6	200919R2_6	10.0	0.75	NO	26.51	1.001	1.25e5	1.23e6	10.0	0.1	1.02	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.956142

RRF SD: 0.0586082, Relative SD: 6.12965

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	200919R2_1	1.25	0.57	NO	31.12	1.000	8.98e3	8.00e5	1.17	-6.1	0.898	MM
2	200919R2_2	2.50	0.66	NO	31.11	1.000	2.05e4	9.18e5	2.33	-6.6	0.893	MM
3	200919R2_3	10.0	0.62	NO	31.11	1.001	1.00e5	1.08e6	9.69	-3.1	0.926	bb
4	200919R2_4	200	0.63	NO	31.11	1.000	2.20e6	1.09e6	210	5.1	1.00	bb
5	200919R2_5	1500	0.63	NO	31.11	1.000	1.76e7	1.14e6	1620	7.8	1.03	bb
6	200919R2_6	50.0	0.62	NO	31.09	1.000	4.93e5	1.00e6	51.5	3.0	0.985	bb

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.00173

RRF SD: 0.0774134, Relative SD: 7.72795

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	200919R2_1	1.25	1.30	NO	34.42	1.000	7.06e3	6.09e5	1.16	-7.4	0.928	MM
2	200919R2_2	2.50	1.22	NO	34.41	1.000	1.51e4	6.58e5	2.29	-8.6	0.916	MM
3	200919R2_3	10.0	1.24	NO	34.41	1.001	7.46e4	7.71e5	9.65	-3.5	0.967	MM
4	200919R2_4	200	1.23	NO	34.41	1.000	1.71e6	7.86e5	217	8.5	1.09	MM
5	200919R2_5	1500	1.22	NO	34.42	1.000	1.43e7	8.69e5	1640	9.1	1.09	bd
6	200919R2_6	50.0	1.20	NO	34.41	1.001	3.63e5	7.12e5	50.9	1.8	1.02	MM

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 0.887868

RRF SD: 0.0718083, Relative SD: 8.08772

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	200919R2_1	1.25	1.23	NO	34.55	1.001	6.98e3	6.99e5	1.12	-10.1	0.799	MM
2	200919R2_2	2.50	1.20	NO	34.53	1.000	1.51e4	7.38e5	2.31	-7.5	0.821	MM
3	200919R2_3	10.0	1.24	NO	34.54	1.001	7.26e4	8.39e5	9.74	-2.6	0.865	MM
4	200919R2_4	200	1.24	NO	34.54	1.000	1.67e6	8.86e5	212	5.9	0.940	MM
5	200919R2_5	1500	1.22	NO	34.54	1.000	1.40e7	9.51e5	1660	10.7	0.983	db
6	200919R2_6	50.0	1.22	NO	34.53	1.000	3.61e5	7.85e5	51.8	3.6	0.920	MM

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 0.909266

RRF SD: 0.0899473, Relative SD: 9.8923

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	200919R2_1	1.25	1.16	NO	34.81	1.000	6.87e3	6.85e5	1.10	-11.7	0.802	MM
2	200919R2_2	2.50	1.27	NO	34.81	1.000	1.47e4	7.24e5	2.24	-10.4	0.815	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	200919R2_3	10.0	1.25	NO	34.81	1.001	7.47e4	8.44e5	9.74	-2.6	0.885	MM
4	200919R2_4	200	1.22	NO	34.82	1.001	1.71e6	8.72e5	216	8.1	0.983	bb
5	200919R2_5	1500	1.22	NO	34.82	1.001	1.45e7	9.46e5	1690	12.4	1.02	bb
6	200919R2_6	50.0	1.23	NO	34.81	1.001	3.68e5	7.77e5	52.1	4.3	0.948	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.831613

RRF SD: 0.0828426, Relative SD: 9.96168

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	200919R2_1	1.25	1.03	NO	38.22	1.000	5.00e3	5.54e5	1.09	-13.2	0.722	MM
2	200919R2_2	2.50	0.99	NO	38.22	1.000	1.12e4	5.93e5	2.27	-9.1	0.756	MM
3	200919R2_3	10.0	1.00	NO	38.23	1.000	5.49e4	6.81e5	9.71	-2.9	0.807	MM
4	200919R2_4	200	1.01	NO	38.23	1.000	1.30e6	7.23e5	216	8.0	0.898	MM
5	200919R2_5	1500	1.01	NO	38.23	1.000	1.08e7	7.74e5	1680	11.8	0.930	bb
6	200919R2_6	50.0	1.02	NO	38.23	1.000	2.74e5	6.26e5	52.7	5.4	0.876	bb

Compound name: OCDD

Response Factor: 0.86229

RRF SD: 0.0670906, Relative SD: 7.78051

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	200919R2_1	2.50	0.82	NO	41.16	1.000	7.96e3	8.02e5	2.30	-7.9	0.794	MM
2	200919R2_2	5.00	0.87	NO	41.16	1.000	1.84e4	9.20e5	4.63	-7.3	0.799	MM
3	200919R2_3	20.0	0.86	NO	41.16	1.000	8.71e4	1.07e6	18.9	-5.5	0.815	MM
4	200919R2_4	400	0.88	NO	41.16	1.000	2.09e6	1.14e6	426	6.5	0.918	MM
5	200919R2_5	3000	0.87	NO	41.17	1.000	1.79e7	1.26e6	3290	9.5	0.945	bb
6	200919R2_6	100	0.88	NO	41.16	1.000	4.54e5	1.01e6	105	4.7	0.903	MM



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

Response Factor: 0.735324

RRF SD: 0.083232, Relative SD: 11.3191

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	200919R2_1	0.250	0.88	NO	25.86	1.001	2.64e3	1.65e6	0.218	-12.8	0.641	MM
2	200919R2_2	0.500	0.73	NO	25.83	1.001	5.86e3	1.77e6	0.450	-10.0	0.662	MM
3	200919R2_3	2.00	0.71	NO	25.83	1.001	2.73e4	1.96e6	1.89	-5.6	0.694	MM
4	200919R2_4	40.0	0.73	NO	25.85	1.001	6.07e5	1.89e6	43.8	9.5	0.805	MM
5	200919R2_5	300	0.74	NO	25.85	1.001	4.84e6	1.90e6	347	15.7	0.851	bb
6	200919R2_6	10.0	0.72	NO	25.83	1.001	1.29e5	1.70e6	10.3	3.2	0.759	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 0.938595

RRF SD: 0.075629, Relative SD: 8.05768

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	200919R2_1	1.25	1.57	NO	29.87	1.000	1.32e4	1.27e6	1.11	-11.4	0.832	MM
2	200919R2_2	2.50	1.53	NO	29.87	1.000	2.92e4	1.35e6	2.31	-7.6	0.868	MM
3	200919R2_3	10.0	1.57	NO	29.86	1.000	1.42e5	1.53e6	9.94	-0.6	0.933	MM
4	200919R2_4	200	1.54	NO	29.87	1.000	3.12e6	1.58e6	211	5.4	0.989	MM
5	200919R2_5	1500	1.54	NO	29.87	1.000	2.52e7	1.64e6	1640	9.1	1.02	bb
6	200919R2_6	50.0	1.54	NO	29.86	1.000	6.99e5	1.42e6	52.6	5.2	0.987	bb

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 1.04959

RRF SD: 0.0817405, Relative SD: 7.78783

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	200919R2_1	1.25	1.62	NO	30.93	1.000	1.37e4	1.17e6	1.11	-10.9	0.935	MM
2	200919R2_2	2.50	1.52	NO	30.91	1.000	3.08e4	1.26e6	2.32	-7.0	0.976	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	200919R2_3	10.0	1.55	NO	30.91	1.000	1.52e5	1.47e6	9.87	-1.3	1.04	MM
4	200919R2_4	200	1.53	NO	30.91	1.000	3.29e6	1.48e6	212	6.1	1.11	MM
5	200919R2_5	1500	1.53	NO	30.93	1.000	2.69e7	1.57e6	1630	8.6	1.14	bb
6	200919R2_6	50.0	1.53	NO	30.90	1.000	7.29e5	1.33e6	52.3	4.6	1.10	bb

**Compound name: 1,2,3,4,7,8-HxCDF**

Response Factor: 0.841977  
 RRF SD: 0.0865816, Relative SD: 10.2831  
 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	200919R2_1	1.25	1.18	NO	33.51	1.000	7.10e3	7.69e5	1.10	-12.3	0.738	MM
2	200919R2_2	2.50	1.22	NO	33.50	1.000	1.55e4	8.25e5	2.23	-10.6	0.753	MM
3	200919R2_3	10.0	1.19	NO	33.50	1.001	7.87e4	9.64e5	9.70	-3.0	0.817	MM
4	200919R2_4	200	1.20	NO	33.51	1.001	1.79e6	9.75e5	218	9.1	0.919	MM
5	200919R2_5	1500	1.20	NO	33.51	1.000	1.48e7	1.04e6	1680	12.3	0.946	MM
6	200919R2_6	50.0	1.19	NO	33.50	1.001	3.86e5	8.76e5	52.3	4.5	0.880	MM

**Compound name: 1,2,3,6,7,8-HxCDF**

Response Factor: 0.893737  
 RRF SD: 0.0843335, Relative SD: 9.43604  
 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	200919R2_1	1.25	1.27	NO	33.65	1.001	7.54e3	7.68e5	1.10	-12.1	0.786	MM
2	200919R2_2	2.50	1.23	NO	33.63	1.000	1.67e4	8.22e5	2.27	-9.1	0.812	MM
3	200919R2_3	10.0	1.19	NO	33.63	1.001	8.21e4	9.49e5	9.67	-3.3	0.865	MM
4	200919R2_4	200	1.18	NO	33.63	1.000	1.88e6	9.78e5	215	7.5	0.960	MM
5	200919R2_5	1500	1.18	NO	33.65	1.001	1.55e7	1.05e6	1650	10.0	0.983	MM
6	200919R2_6	50.0	1.21	NO	33.62	1.000	4.15e5	8.68e5	53.5	7.0	0.956	MM

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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 0.869941

RRF SD: 0.0937907, Relative SD: 10.7813

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	200919R2_1	1.25	1.18	NO	34.32	1.001	6.88e3	7.26e5	1.09	-12.9	0.757	MM
2	200919R2_2	2.50	1.21	NO	34.31	1.001	1.53e4	7.92e5	2.21	-11.4	0.771	MM
3	200919R2_3	10.0	1.18	NO	34.31	1.001	7.69e4	9.14e5	9.67	-3.3	0.842	bb
4	200919R2_4	200	1.18	NO	34.31	1.000	1.77e6	9.25e5	219	9.7	0.954	MM
5	200919R2_5	1500	1.18	NO	34.32	1.001	1.45e7	9.90e5	1680	11.9	0.974	bb
6	200919R2_6	50.0	1.20	NO	34.29	1.000	3.86e5	8.37e5	53.0	6.0	0.922	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 0.855261

RRF SD: 0.0818421, Relative SD: 9.56926

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	200919R2_1	1.25	1.14	NO	35.32	1.000	6.19e3	6.42e5	1.13	-9.8	0.772	MM
2	200919R2_2	2.50	1.11	NO	35.31	1.000	1.36e4	7.08e5	2.24	-10.3	0.767	MM
3	200919R2_3	10.0	1.19	NO	35.32	1.001	6.59e4	8.11e5	9.51	-4.9	0.813	MM
4	200919R2_4	200	1.19	NO	35.32	1.000	1.54e6	8.33e5	217	8.3	0.926	MM
5	200919R2_5	1500	1.19	NO	35.32	1.000	1.27e7	8.89e5	1680	11.7	0.955	bb
6	200919R2_6	50.0	1.20	NO	35.32	1.001	3.33e5	7.41e5	52.5	5.1	0.899	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.890763

RRF SD: 0.10316, Relative SD: 11.581

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	200919R2_1	1.25	1.00	NO	36.91	1.000	5.01e3	5.14e5	1.09	-12.4	0.780	MM
2	200919R2_2	2.50	1.00	NO	36.90	1.001	1.11e4	5.74e5	2.17	-13.0	0.775	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	200919R2_3	10.0	0.98	NO	36.90	1.000	5.68e4	6.65e5	9.59	-4.1	0.854	bb
4	200919R2_4	200	0.98	NO	36.91	1.001	1.33e6	6.72e5	222	11.2	0.990	MM
5	200919R2_5	1500	0.99	NO	36.91	1.001	1.11e7	7.33e5	1700	13.5	1.01	bb
6	200919R2_6	50.0	0.99	NO	36.90	1.000	2.88e5	6.16e5	52.5	4.9	0.934	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.00007

RRF SD: 0.0986175, Relative SD: 9.86102

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	200919R2_1	1.25	0.97	NO	38.85	1.000	4.69e3	4.12e5	1.14	-8.8	0.912	MM
2	200919R2_2	2.50	0.97	NO	38.84	1.000	1.03e4	4.62e5	2.22	-11.1	0.890	MM
3	200919R2_3	10.0	0.99	NO	38.85	1.000	5.09e4	5.39e5	9.43	-5.7	0.943	MM
4	200919R2_4	200	0.98	NO	38.85	1.000	1.23e6	5.64e5	218	8.9	1.09	bb
5	200919R2_5	1500	0.98	NO	38.85	1.000	9.96e6	5.89e5	1690	12.6	1.13	bb
6	200919R2_6	50.0	1.00	NO	38.85	1.000	2.52e5	4.84e5	52.0	4.1	1.04	bb

**Compound name: OCDF**

Response Factor: 0.784097

RRF SD: 0.089724, Relative SD: 11.443

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	200919R2_1	2.50	0.86	NO	41.46	1.000	7.27e3	8.92e5	2.08	-16.8	0.652	MM
2	200919R2_2	5.00	0.86	NO	41.46	1.000	1.77e4	9.95e5	4.53	-9.4	0.711	MM
3	200919R2_3	20.0	0.85	NO	41.46	1.000	8.95e4	1.17e6	19.6	-2.0	0.768	MM
4	200919R2_4	400	0.86	NO	41.46	1.000	2.08e6	1.22e6	435	8.7	0.852	bb
5	200919R2_5	3000	0.87	NO	41.47	1.000	1.80e7	1.36e6	3370	12.4	0.881	bb
6	200919R2_6	100	0.86	NO	41.44	1.000	4.45e5	1.06e6	107	7.1	0.840	bb

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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.15211  
 RRF SD: 0.0143702, Relative SD: 1.24729  
 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	200919R2_1	100	0.79	NO	26.51	1.029	1.17e6	1.03e6	98.4	-1.6	1.13	bb
2	200919R2_2	100	0.79	NO	26.48	1.029	1.26e6	1.09e6	100	0.0	1.15	bb
3	200919R2_3	100	0.79	NO	26.48	1.028	1.40e6	1.22e6	99.8	-0.2	1.15	bb
4	200919R2_4	100	0.79	NO	26.49	1.029	1.37e6	1.20e6	99.4	-0.6	1.15	bb
5	200919R2_5	100	0.79	NO	26.49	1.029	1.38e6	1.18e6	102	2.2	1.18	bb
6	200919R2_6	100	0.79	NO	26.48	1.028	1.23e6	1.07e6	100	0.1	1.15	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.88669  
 RRF SD: 0.069724, Relative SD: 7.8634  
 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	200919R2_1	100	0.65	NO	31.11	1.208	8.00e5	1.03e6	87.4	-12.6	0.775	bb
2	200919R2_2	100	0.64	NO	31.09	1.209	9.18e5	1.09e6	95.0	-5.0	0.842	bb
3	200919R2_3	100	0.63	NO	31.08	1.207	1.08e6	1.22e6	100	0.1	0.888	bb
4	200919R2_4	100	0.65	NO	31.09	1.208	1.09e6	1.20e6	103	2.7	0.911	bb
5	200919R2_5	100	0.64	NO	31.09	1.208	1.14e6	1.18e6	109	9.2	0.968	bb
6	200919R2_6	100	0.64	NO	31.08	1.207	1.00e6	1.07e6	106	5.7	0.937	bb

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

Response Factor: 0.801397  
 RRF SD: 0.0450697, Relative SD: 5.62389  
 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	200919R2_1	100	1.29	NO	34.41	1.014	6.09e5	7.95e5	95.5	-4.5	0.765	bd
2	200919R2_2	100	1.29	NO	34.40	1.014	6.58e5	8.55e5	96.1	-3.9	0.770	bd

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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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	200919R2_3	100	1.27	NO	34.39	1.014	7.71e5	9.88e5	97.3	-2.7	0.780	bd
4	200919R2_4	100	1.27	NO	34.40	1.014	7.86e5	9.81e5	99.9	-0.1	0.801	bd
5	200919R2_5	100	1.27	NO	34.41	1.014	8.69e5	9.79e5	111	10.7	0.887	bd
6	200919R2_6	100	1.27	NO	34.39	1.014	7.12e5	8.84e5	100	0.5	0.805	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 0.892065  
 RRF SD: 0.0429617, Relative SD: 4.81598  
 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	200919R2_1	100	1.29	NO	34.53	1.017	6.99e5	7.95e5	98.6	-1.4	0.879	db
2	200919R2_2	100	1.27	NO	34.52	1.017	7.38e5	8.55e5	96.8	-3.2	0.863	db
3	200919R2_3	100	1.27	NO	34.52	1.018	8.39e5	9.88e5	95.2	-4.8	0.849	db
4	200919R2_4	100	1.27	NO	34.53	1.018	8.86e5	9.81e5	101	1.2	0.902	db
5	200919R2_5	100	1.27	NO	34.53	1.018	9.51e5	9.79e5	109	8.9	0.971	db
6	200919R2_6	100	1.28	NO	34.52	1.018	7.85e5	8.84e5	99.4	-0.6	0.887	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.882493  
 RRF SD: 0.0438693, Relative SD: 4.97107  
 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	200919R2_1	100	1.26	NO	34.80	1.025	6.85e5	7.95e5	97.6	-2.4	0.861	bb
2	200919R2_2	100	1.26	NO	34.80	1.025	7.24e5	8.55e5	95.9	-4.1	0.847	bb
3	200919R2_3	100	1.25	NO	34.78	1.025	8.44e5	9.88e5	96.8	-3.2	0.854	bb
4	200919R2_4	100	1.27	NO	34.80	1.025	8.72e5	9.81e5	101	0.7	0.888	bb
5	200919R2_5	100	1.24	NO	34.80	1.025	9.46e5	9.79e5	109	9.5	0.966	bb
6	200919R2_6	100	1.26	NO	34.78	1.025	7.77e5	8.84e5	99.5	-0.5	0.878	bb

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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

Response Factor: 0.719032

RRF SD: 0.0388051, Relative SD: 5.39685

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	200919R2_1	100	1.04	NO	38.22	1.126	5.54e5	7.95e5	97.0	-3.0	0.697	MM
2	200919R2_2	100	1.03	NO	38.21	1.126	5.93e5	8.55e5	96.4	-3.6	0.693	bb
3	200919R2_3	100	1.03	NO	38.22	1.127	6.81e5	9.88e5	95.8	-4.2	0.689	bb
4	200919R2_4	100	1.05	NO	38.22	1.126	7.23e5	9.81e5	102	2.5	0.737	MM
5	200919R2_5	100	1.04	NO	38.22	1.126	7.74e5	9.79e5	110	9.9	0.790	bb
6	200919R2_6	100	1.04	NO	38.22	1.127	6.26e5	8.84e5	98.5	-1.5	0.708	bb

**Compound name: 13C-OCDD**

Response Factor: 0.563022

RRF SD: 0.0484292, Relative SD: 8.60165

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	200919R2_1	200	0.88	NO	41.15	1.212	8.02e5	7.95e5	179	-10.5	0.504	bb
2	200919R2_2	200	0.89	NO	41.15	1.213	9.20e5	8.55e5	191	-4.5	0.538	bb
3	200919R2_3	200	0.92	NO	41.15	1.213	1.07e6	9.88e5	192	-3.9	0.541	MM
4	200919R2_4	200	0.92	NO	41.15	1.213	1.14e6	9.81e5	206	3.2	0.581	MM
5	200919R2_5	200	0.89	NO	41.16	1.213	1.26e6	9.79e5	229	14.6	0.645	bb
6	200919R2_6	200	0.92	NO	41.15	1.213	1.01e6	8.84e5	202	1.0	0.569	MM

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.00931

RRF SD: 0.0129776, Relative SD: 1.28579

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	200919R2_1	100	0.77	NO	25.83	1.003	1.65e6	1.67e6	97.8	-2.2	0.987	bb
2	200919R2_2	100	0.77	NO	25.82	1.003	1.77e6	1.75e6	100	0.2	1.01	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	200919R2_3	100	0.77	NO	25.82	1.003	1.96e6	1.93e6	101	1.0	1.02	bb
4	200919R2_4	100	0.78	NO	25.82	1.003	1.89e6	1.89e6	99.1	-0.9	1.00	bb
5	200919R2_5	100	0.77	NO	25.82	1.003	1.90e6	1.86e6	101	0.9	1.02	bb
6	200919R2_6	100	0.77	NO	25.82	1.003	1.70e6	1.67e6	101	1.0	1.02	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.814084

RRF SD: 0.0481644, Relative SD: 5.9164

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	200919R2_1	100	1.61	NO	29.87	1.160	1.27e6	1.67e6	93.2	-6.8	0.758	bb
2	200919R2_2	100	1.60	NO	29.86	1.161	1.35e6	1.75e6	94.5	-5.5	0.769	bb
3	200919R2_3	100	1.59	NO	29.84	1.159	1.53e6	1.93e6	97.4	-2.6	0.793	bb
4	200919R2_4	100	1.57	NO	29.86	1.160	1.58e6	1.89e6	103	2.7	0.836	bb
5	200919R2_5	100	1.59	NO	29.86	1.160	1.64e6	1.86e6	108	8.2	0.881	bb
6	200919R2_6	100	1.57	NO	29.84	1.159	1.42e6	1.67e6	104	4.1	0.847	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.76773

RRF SD: 0.0510173, Relative SD: 6.64521

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	200919R2_1	100	1.59	NO	30.91	1.200	1.17e6	1.67e6	91.5	-8.5	0.703	bb
2	200919R2_2	100	1.59	NO	30.90	1.201	1.26e6	1.75e6	94.1	-5.9	0.723	bb
3	200919R2_3	100	1.58	NO	30.90	1.200	1.47e6	1.93e6	99.1	-0.9	0.761	bb
4	200919R2_4	100	1.59	NO	30.90	1.200	1.48e6	1.89e6	102	2.0	0.783	bb
5	200919R2_5	100	1.59	NO	30.91	1.201	1.57e6	1.86e6	110	9.9	0.844	bb
6	200919R2_6	100	1.61	NO	30.88	1.199	1.33e6	1.67e6	103	3.4	0.794	bb



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

Response Factor: 0.992549  
 RRF SD: 0.0365828, Relative SD: 3.68575  
 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	200919R2_1	100	0.50	NO	33.50	0.987	7.69e5	7.95e5	97.4	-2.6	0.967	bd
2	200919R2_2	100	0.50	NO	33.49	0.987	8.25e5	8.55e5	97.3	-2.7	0.966	bd
3	200919R2_3	100	0.50	NO	33.47	0.987	9.64e5	9.88e5	98.3	-1.7	0.976	bd
4	200919R2_4	100	0.50	NO	33.49	0.987	9.75e5	9.81e5	100	0.1	0.993	bd
5	200919R2_5	100	0.50	NO	33.50	0.987	1.04e6	9.79e5	107	7.1	1.06	bd
6	200919R2_6	100	0.50	NO	33.47	0.987	8.76e5	8.84e5	99.8	-0.2	0.991	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 0.990148  
 RRF SD: 0.0439694, Relative SD: 4.44069  
 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	200919R2_1	100	0.50	NO	33.62	0.991	7.68e5	7.95e5	97.5	-2.5	0.966	db
2	200919R2_2	100	0.50	NO	33.62	0.991	8.22e5	8.55e5	97.1	-2.9	0.961	db
3	200919R2_3	100	0.50	NO	33.61	0.991	9.49e5	9.88e5	97.0	-3.0	0.960	db
4	200919R2_4	100	0.50	NO	33.62	0.991	9.78e5	9.81e5	101	0.7	0.997	db
5	200919R2_5	100	0.51	NO	33.62	0.991	1.05e6	9.79e5	109	8.6	1.08	db
6	200919R2_6	100	0.50	NO	33.61	0.991	8.68e5	8.84e5	99.2	-0.8	0.982	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 0.944213  
 RRF SD: 0.034891, Relative SD: 3.69524  
 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	200919R2_1	100	0.50	NO	34.29	1.010	7.26e5	7.95e5	96.7	-3.3	0.913	bb
2	200919R2_2	100	0.50	NO	34.28	1.010	7.92e5	8.55e5	98.2	-1.8	0.927	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	200919R2_3	100	0.51	NO	34.28	1.011	9.14e5	9.88e5	98.0	-2.0	0.925	bb
4	200919R2_4	100	0.50	NO	34.29	1.011	9.25e5	9.81e5	99.8	-0.2	0.942	bb
5	200919R2_5	100	0.51	NO	34.29	1.011	9.90e5	9.79e5	107	7.1	1.01	bb
6	200919R2_6	100	0.50	NO	34.28	1.011	8.37e5	8.84e5	100	0.2	0.947	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.841584

RRF SD: 0.0356443, Relative SD: 4.23538

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	200919R2_1	100	0.50	NO	35.31	1.040	6.42e5	7.95e5	95.8	-4.2	0.807	bb
2	200919R2_2	100	0.50	NO	35.30	1.040	7.08e5	8.55e5	98.4	-1.6	0.828	bb
3	200919R2_3	100	0.50	NO	35.30	1.041	8.11e5	9.88e5	97.5	-2.5	0.820	bb
4	200919R2_4	100	0.50	NO	35.31	1.041	8.33e5	9.81e5	101	0.9	0.849	bb
5	200919R2_5	100	0.50	NO	35.31	1.041	8.89e5	9.79e5	108	7.9	0.908	bb
6	200919R2_6	100	0.50	NO	35.30	1.041	7.41e5	8.84e5	99.5	-0.5	0.837	bb

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

Response Factor: 0.686784

RRF SD: 0.0345844, Relative SD: 5.0357

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	200919R2_1	100	0.41	NO	36.90	1.087	5.14e5	7.95e5	94.1	-5.9	0.646	bb
2	200919R2_2	100	0.42	NO	36.88	1.087	5.74e5	8.55e5	97.8	-2.2	0.672	bb
3	200919R2_3	100	0.42	NO	36.89	1.087	6.65e5	9.88e5	97.9	-2.1	0.673	bb
4	200919R2_4	100	0.43	NO	36.89	1.087	6.72e5	9.81e5	99.7	-0.3	0.685	bb
5	200919R2_5	100	0.43	NO	36.89	1.087	7.33e5	9.79e5	109	9.0	0.748	bb
6	200919R2_6	100	0.43	NO	36.89	1.087	6.16e5	8.84e5	101	1.5	0.697	bd

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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.554535  
 RRF SD: 0.029426, Relative SD: 5.30642  
 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	200919R2_1	100	0.42	NO	38.84	1.144	4.12e5	7.95e5	93.3	-6.7	0.518	bb
2	200919R2_2	100	0.42	NO	38.83	1.144	4.62e5	8.55e5	97.4	-2.6	0.540	bb
3	200919R2_3	100	0.42	NO	38.84	1.145	5.39e5	9.88e5	98.4	-1.6	0.546	bb
4	200919R2_4	100	0.42	NO	38.84	1.145	5.64e5	9.81e5	104	3.6	0.574	bb
5	200919R2_5	100	0.42	NO	38.84	1.145	5.89e5	9.79e5	109	8.5	0.602	bb
6	200919R2_6	100	0.41	NO	38.84	1.145	4.84e5	8.84e5	98.7	-1.3	0.547	bb

**Compound name: 13C-OCDF**

Response Factor: 0.60822  
 RRF SD: 0.0471699, Relative SD: 7.7554  
 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	200919R2_1	200	0.86	NO	41.44	1.221	8.92e5	7.95e5	184	-7.8	0.561	MM
2	200919R2_2	200	0.88	NO	41.43	1.221	9.95e5	8.55e5	191	-4.3	0.582	MM
3	200919R2_3	200	0.84	NO	41.44	1.222	1.17e6	9.88e5	194	-3.1	0.590	bb
4	200919R2_4	200	0.86	NO	41.44	1.221	1.22e6	9.81e5	205	2.4	0.623	bb
5	200919R2_5	200	0.87	NO	41.46	1.222	1.36e6	9.79e5	229	14.3	0.695	bb
6	200919R2_6	200	0.87	NO	41.43	1.221	1.06e6	8.84e5	197	-1.6	0.598	bb

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.17824  
 RRF SD: 0.162145, Relative SD: 13.7617  
 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	200919R2_1	0.250			26.54	1.030	2.62e3	1.03e6	0.215	-14.0	1.01	bb
2	200919R2_2	0.500			26.51	1.030	5.19e3	1.09e6	0.404	-19.2	0.952	bb

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**Compound name: 37Cl-2,3,7,8-TCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200919R2_3	2.00			26.51	1.030	2.96e4	1.22e6	2.06	3.2	1.22	bb
4	200919R2_4	40.0			26.51	1.030	6.20e5	1.20e6	43.9	9.7	1.29	bb
5	200919R2_5	200			26.51	1.030	3.22e6	1.18e6	232	16.2	1.37	bb
6	200919R2_6	10.0			26.51	1.030	1.31e5	1.07e6	10.4	4.1	1.23	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	200919R2_1	100	0.81	NO	25.76	1.000	1.03e6	1.03e6	100	0.0	1.00	bb
2	200919R2_2	100	0.80	NO	25.73	1.000	1.09e6	1.09e6	100	0.0	1.00	bb
3	200919R2_3	100	0.80	NO	25.74	1.000	1.22e6	1.22e6	100	0.0	1.00	bb
4	200919R2_4	100	0.79	NO	25.74	1.000	1.20e6	1.20e6	100	0.0	1.00	bb
5	200919R2_5	100	0.79	NO	25.74	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
6	200919R2_6	100	0.80	NO	25.74	1.000	1.07e6	1.07e6	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	200919R2_1	100	0.79	NO	24.32	1.000	1.67e6	1.67e6	100	0.0	1.00	bb
2	200919R2_2	100	0.79	NO	24.29	1.000	1.75e6	1.75e6	100	0.0	1.00	bb
3	200919R2_3	100	0.79	NO	24.31	1.000	1.93e6	1.93e6	100	0.0	1.00	bb
4	200919R2_4	100	0.79	NO	24.31	1.000	1.89e6	1.89e6	100	0.0	1.00	bb
5	200919R2_5	100	0.78	NO	24.29	1.000	1.86e6	1.86e6	100	0.0	1.00	bb
6	200919R2_6	100	0.79	NO	24.31	1.000	1.67e6	1.67e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Monday, September 21, 2020 11:11:58 Pacific Daylight Time

Printed: Tuesday, September 22, 2020 11:05:19 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	200919R2_1	100	0.50	NO	33.94	1.000	7.95e5	7.95e5	100	0.0	1.00	bb
2	200919R2_2	100	0.50	NO	33.93	1.000	8.55e5	8.55e5	100	0.0	1.00	bb
3	200919R2_3	100	0.50	NO	33.92	1.000	9.88e5	9.88e5	100	0.0	1.00	bb
4	200919R2_4	100	0.50	NO	33.93	1.000	9.81e5	9.81e5	100	0.0	1.00	bb
5	200919R2_5	100	0.50	NO	33.93	1.000	9.79e5	9.79e5	100	0.0	1.00	bb
6	200919R2_6	100	0.50	NO	33.92	1.000	8.84e5	8.84e5	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Monday, September 21, 2020 12:06:23 Pacific Daylight Time  
Printed: Monday, September 21, 2020 12:06:40 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 20 Sep 2020 09:13:58

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

	Name	ID	Acq.Date	Acq.Time
1	200919R2_1	ST200919R2_1 1613 CS0 20F1102	19-Sep-20	13:41:21
2	200919R2_2	ST200919R2_2 1613 CS1 20F1103	19-Sep-20	14:26:28
3	200919R2_3	ST200919R2_3 1613 CS2 20F1104	19-Sep-20	15:10:05
4	200919R2_4	ST200919R2_4 1613 CS4 20F1106	19-Sep-20	15:53:51
5	200919R2_5	ST200919R2_5 1613 CS5 20F1107	19-Sep-20	16:37:31
6	200919R2_6	ST200919R2_6 1613 CS3 20F1105	19-Sep-20	17:21:13
7	200919R2_7	SS200919R2_1 1613 SSS 20F1108	19-Sep-20	18:04:53
8	200919R2_8	B0I0049-BS1 OPR 1	19-Sep-20	18:48:34
9	200919R2_9	B0I0104-BS1 OPR 1	19-Sep-20	19:32:17
10	200919R2_10	B0I0107-BS1 OPR 1	19-Sep-20	20:15:57
11	200919R2_11	B0I0026-BS1 OPR 1	19-Sep-20	20:59:39
12	200919R2_12	SOLVENT BLANK	19-Sep-20	21:43:21
13	200919R2_13	B0I0049-BLK1 Method Blank 1	19-Sep-20	22:27:01
14	200919R2_14	B0I0104-BLK1 Method Blank 1	19-Sep-20	23:10:37
15	200919R2_15	B0I0107-BLK1 Method Blank 1	19-Sep-20	23:54:18
16	200919R2_16	B0I0026-BLK1 Method Blank 1	20-Sep-20	00:38:06
17	200919R2_17	2001838-01 Williams Rd 11 1.0358	20-Sep-20	01:21:49
18	200919R2_18	2001838-02 Williams Rd 12 1.03531	20-Sep-20	02:05:30
19	200919R2_19	2001843-01 Plant Effluent 0.97183	20-Sep-20	02:49:11
20	200919R2_20	2001853-01 GW-1211 1.0384	20-Sep-20	03:32:53
21	200919R2_21	2001903-01 Forebay Composite (24hr) 1.07089	20-Sep-20	04:16:34
22	200919R3_1	SOLVENT BLANK	20-Sep-20	05:09:15
23	200919R3_2	ST200919R3_1 1613 CS3 20F1105	20-Sep-20	05:52:47

(A) File text not updated, sample ID has correct standard ID's, Description ID's are incorrect. HW 09/21/2020

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CPSM.qld

Last Altered: Sunday, September 20, 2020 10:23:42 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:24:44 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 20 Sep 2020 09:13:58

Name: 200919R2\_6, Date: 19-Sep-2020, Time: 17:21:13, ID: ST200919R2\_6 1613 CS3

20F1105  
~~19L2305~~  
HN 09/21/2020

#	Name	RT
1	1,3,6,8-TCDD (First)	22.85
2	1,2,8,9-TCDD (Last)	27.36
3	1,2,4,7,9-PeCDD (First)	28.87
4	1,2,3,8,9-PeCDD (Last)	31.44
5	1,2,4,6,7,9-HxCDD (First)	32.75
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)	38.23
9	1,3,6,8-TCDF (First)	20.64
10	1,2,8,9-TCDF (Last)	27.67
11	1,3,4,6,8-PeCDF (First)	27.24
12	1,2,3,8,9-PeCDF (Last)	31.80
13	1,2,3,4,6,8-HxCDF (First)	32.22
14	1,2,3,7,8,9-HxCDF (Last)	35.32
15	1,2,3,4,6,7,8-HpCDF (First)	36.90
16	1,2,3,4,7,8,9-HpCDF (Last)	38.85

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CPSM.qld

Last Altered: Sunday, September 20, 2020 10:23:42 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:24:44 Pacific Daylight Time

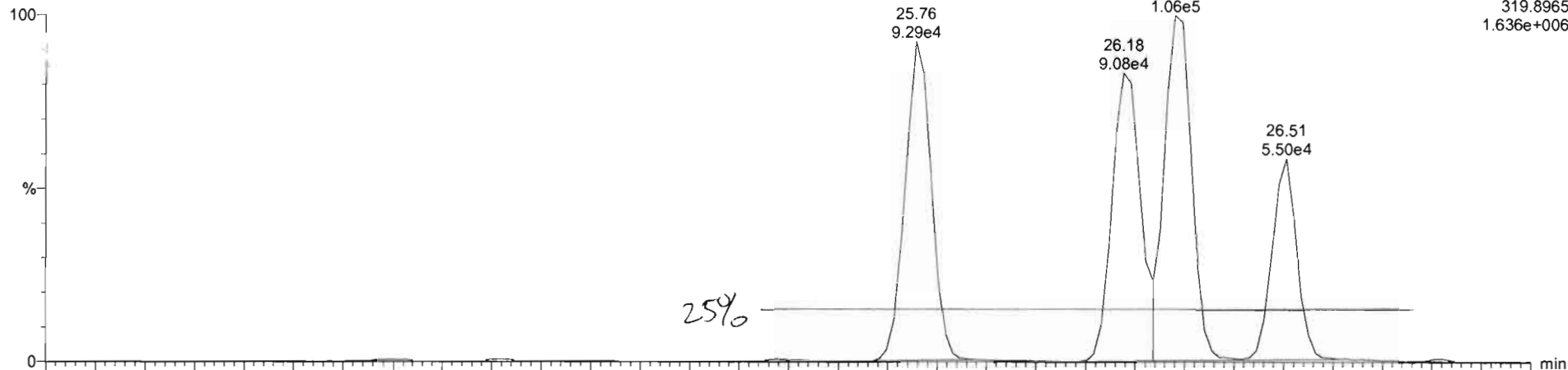
Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 20 Sep 2020 09:13:58

Name: 200919R2\_6, Date: 19-Sep-2020, Time: 17:21:13, ID: ST200919R2\_6 1613 CS3 20F1105, Description: 1613 CS3 ~~19L2305~~

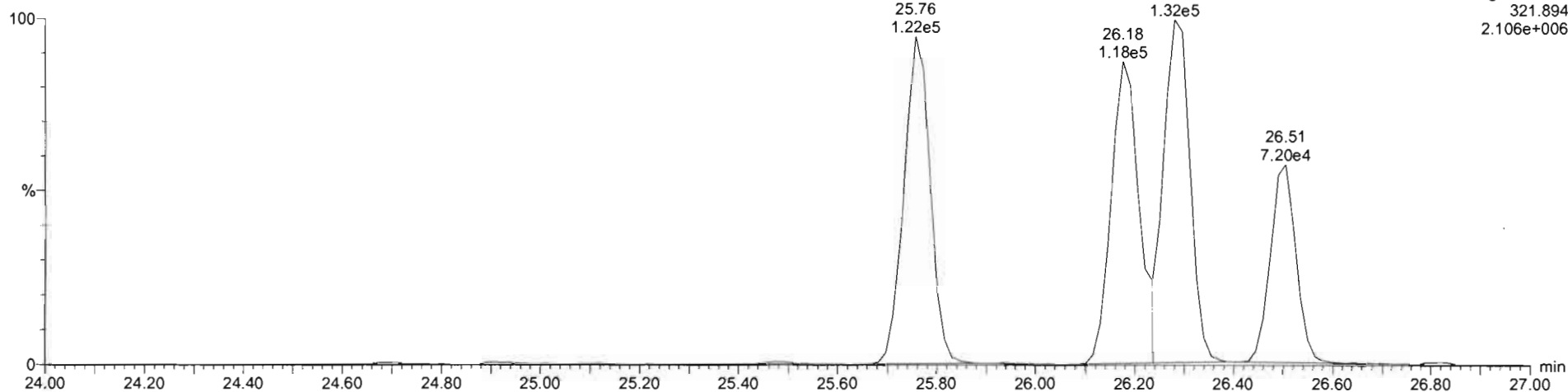
*HN 09/20/2020*

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

200919R2\_6



200919R2\_6

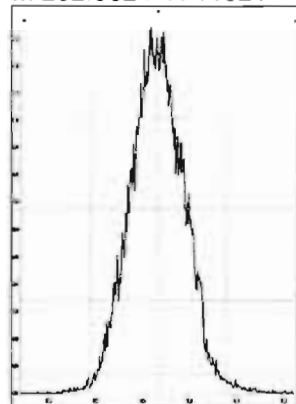




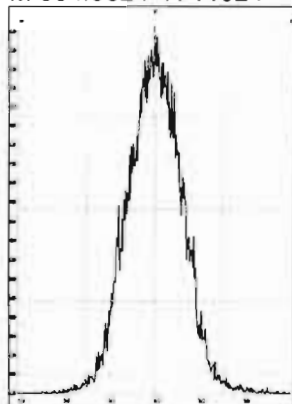
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, September 19, 2020 13:36:52 Pacific Daylight Time

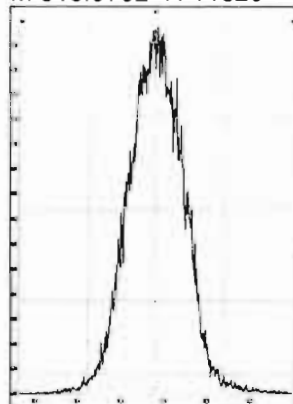
M 292.9824 R 11521



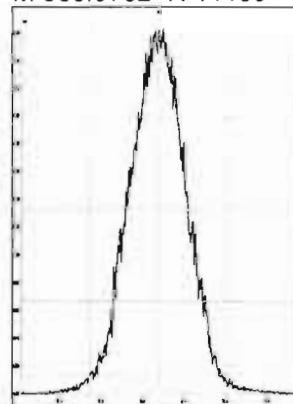
M 304.9824 R 11524



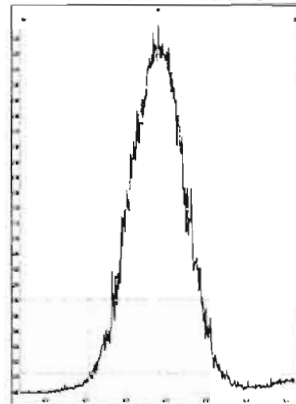
M 318.9792 R 11629



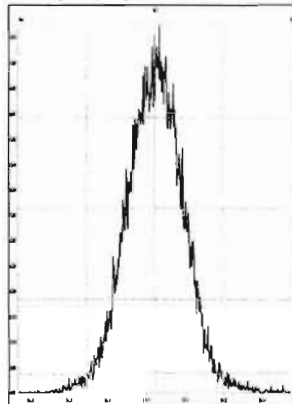
M 330.9792 R 11109



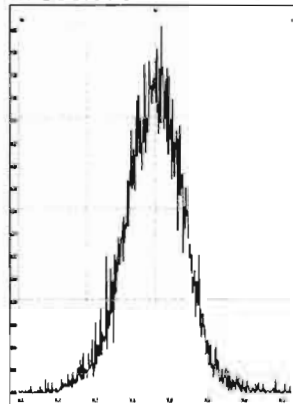
M 342.9792 R 10918



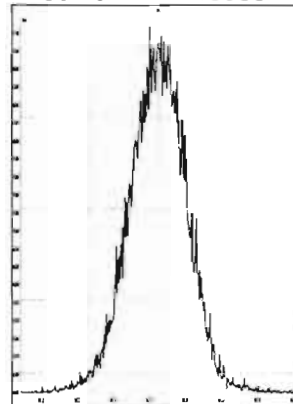
M 354.9792 R 10963



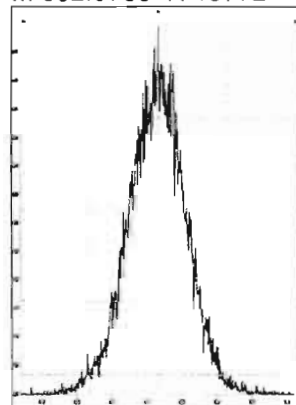
M 366.9792 R 11416



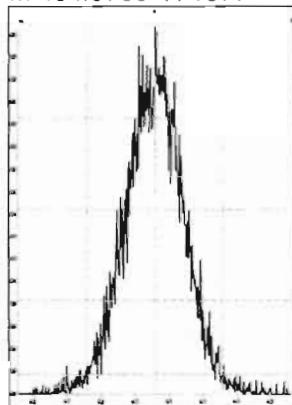
M 380.9760 R 10963



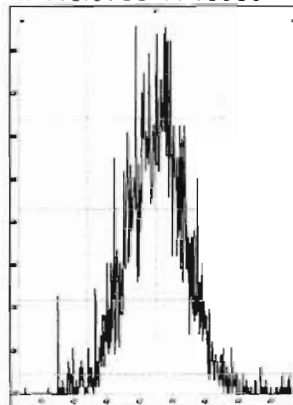
M 392.9760 R 10772



M 404.9760 R 10774



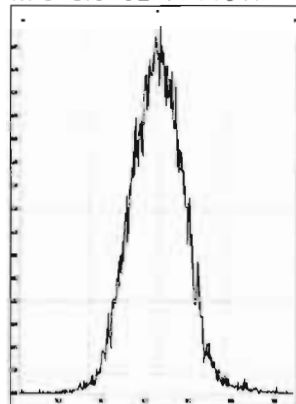
M 416.9760 R 10965



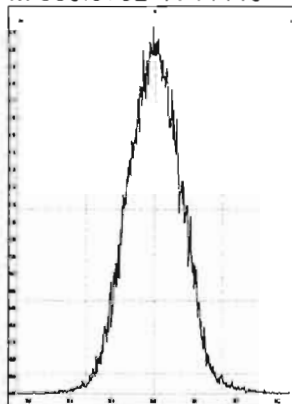
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, September 19, 2020 13:38:01 Pacific Daylight Time

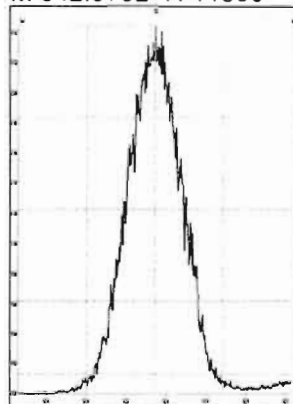
M 318.9792 R 11517



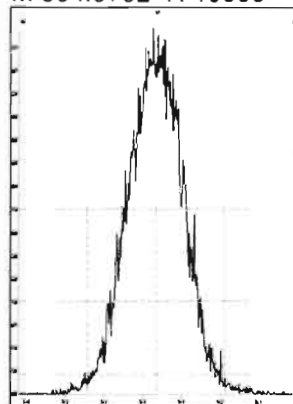
M 330.9792 R 11110



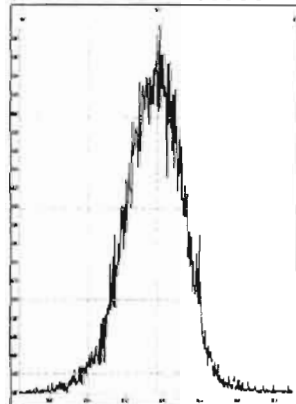
M 342.9792 R 11360



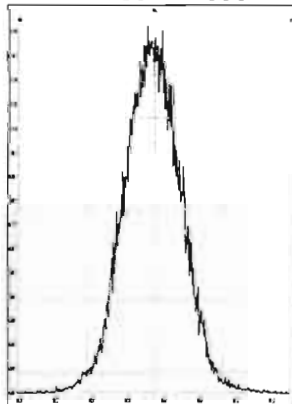
M 354.9792 R 10683



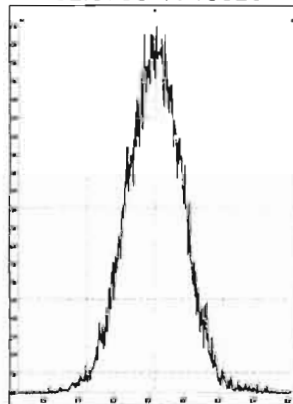
M 366.9792 R 10550



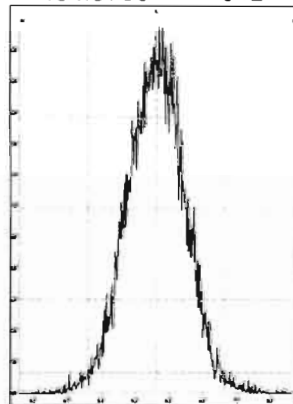
M 380.9760 R 10504



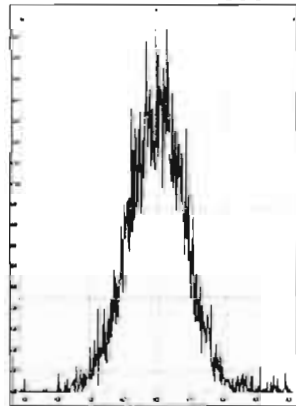
M 392.9760 R 10820



M 404.9760 R 11012



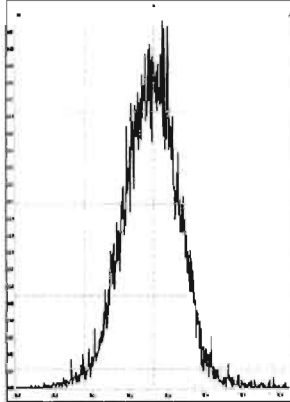
M 416.9760 R 11850



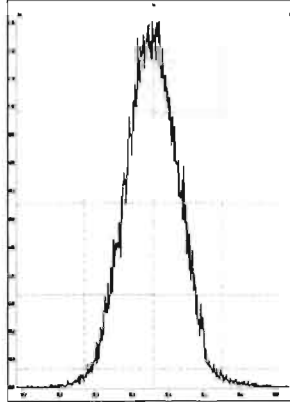
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, September 19, 2020 13:39:19 Pacific Daylight Time

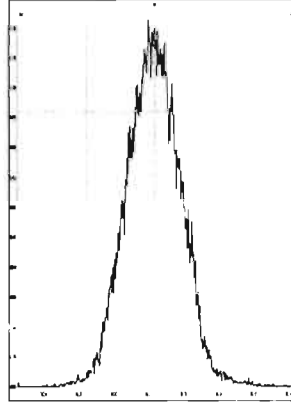
M 366.9792 R 11684



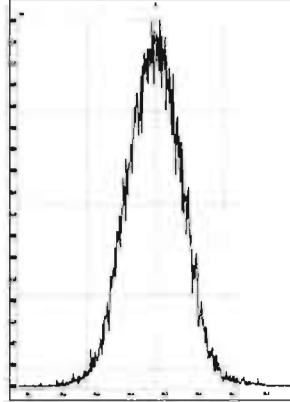
M 380.9760 R 11520



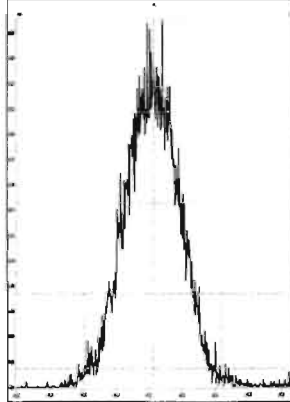
M 392.9760 R 11576



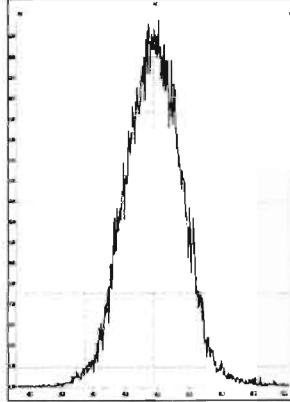
M 404.9760 R 11311



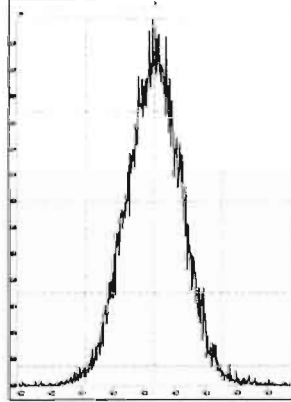
M 416.9760 R 11902



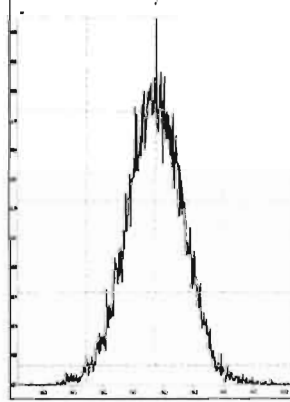
M 430.9728 R 11261



M 442.9728 R 10962



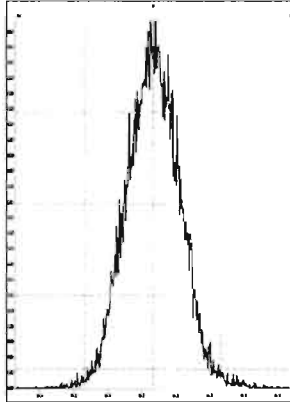
M 454.9728 R 11160



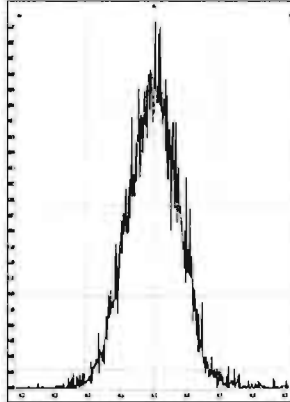
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, September 19, 2020 13:40:21 Pacific Daylight Time

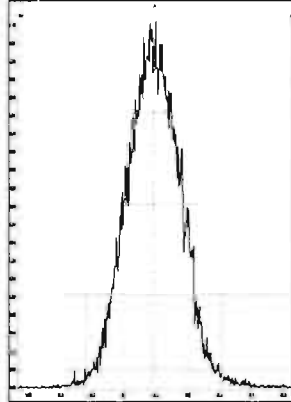
M 404.9760 R 11678



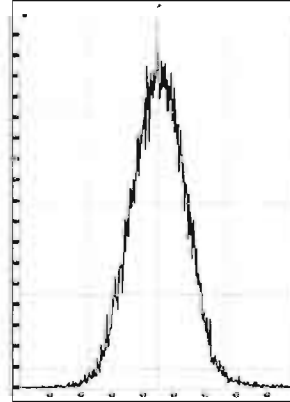
M 416.9760 R 11794



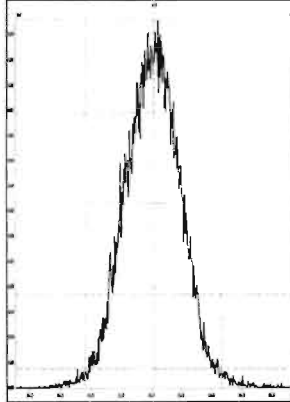
M 430.9728 R 11793



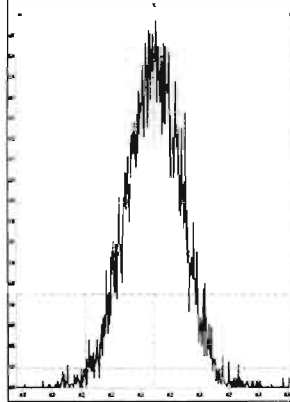
M 442.9728 R 11314



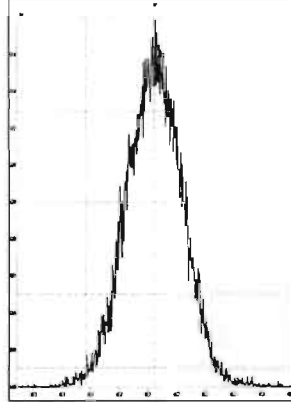
M 454.9728 R 11062



M 466.9728 R 11794



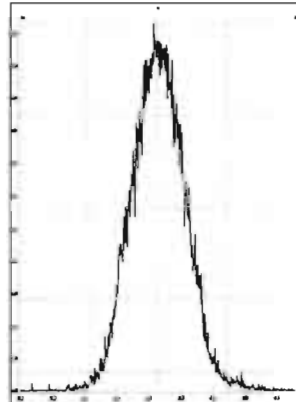
M 480.9696 R 11261



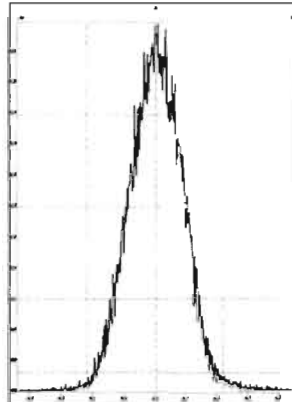
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, September 19, 2020 13:41:07 Pacific Daylight Time

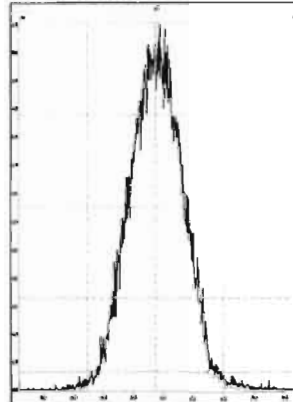
M 430.9728 R 11522



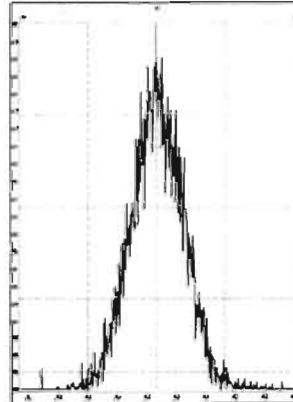
M 442.9728 R 11736



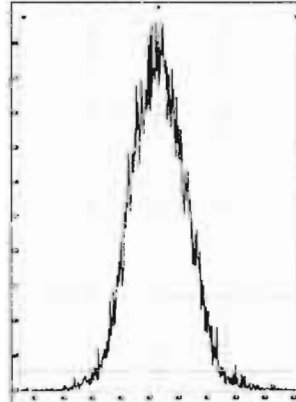
M 454.9728 R 11849



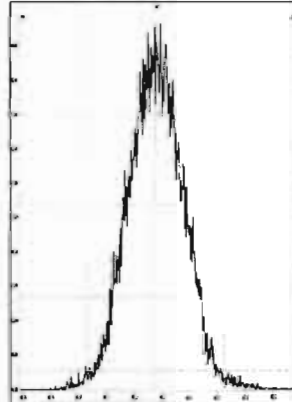
M 466.9728 R 12885



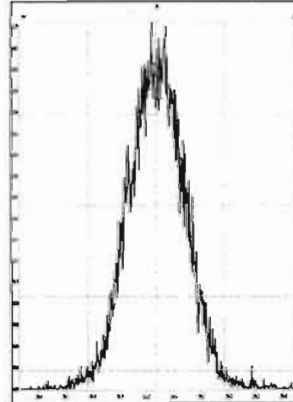
M 480.9696 R 11365



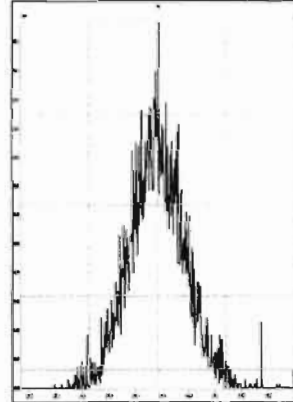
M 492.9696 R 11311



M 504.9696 R 10966



M 516.9697 R 12190



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

HN 09/21/2020

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36

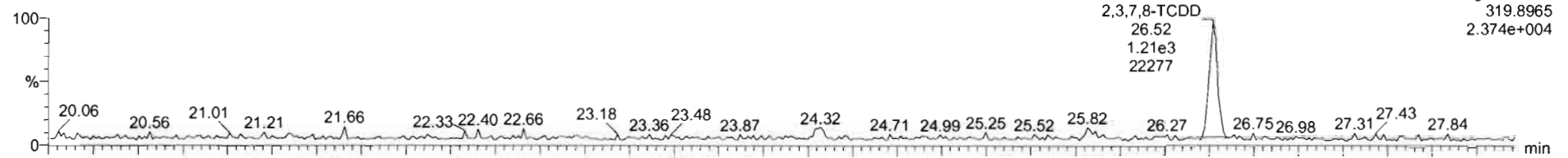
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 20 Sep 2020 09:13:58

20F1102

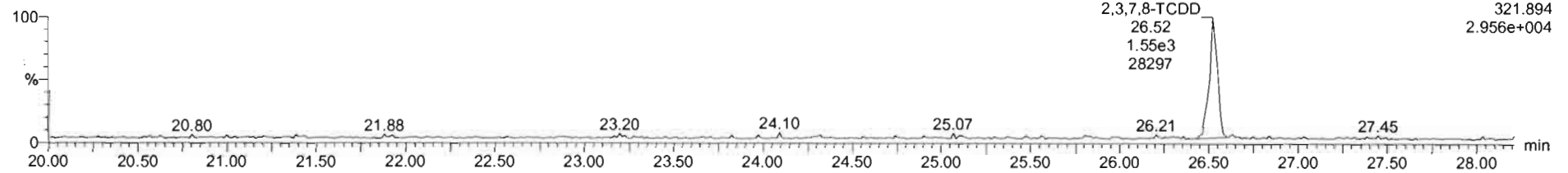
Name: 200919R2\_1, Date: 19-Sep-2020, Time: 13:41:21, ID: ST200919R2\_1 1613 CS0 20F1102, Description: 1613 CS0 ~~19L2302~~

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

200919R2\_1

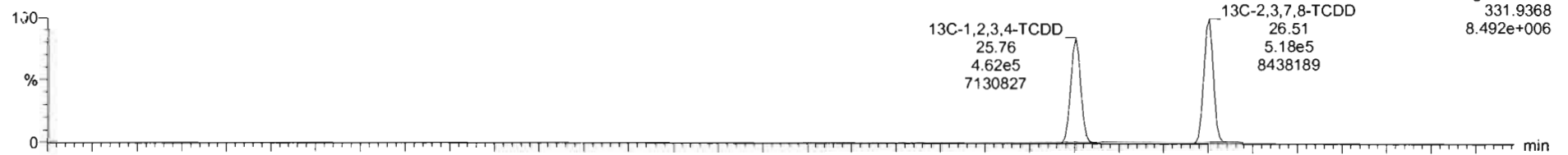


200919R2\_1

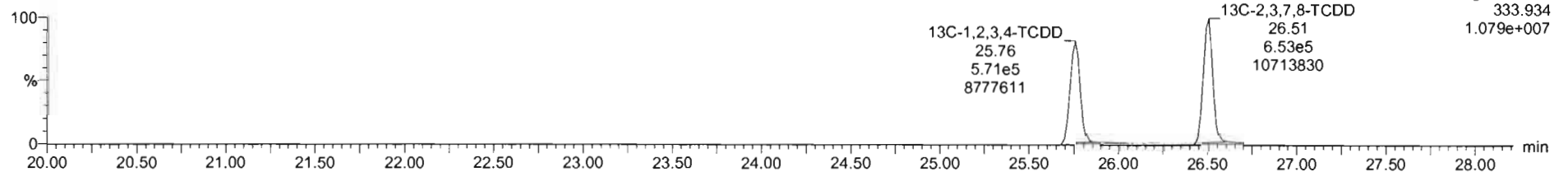


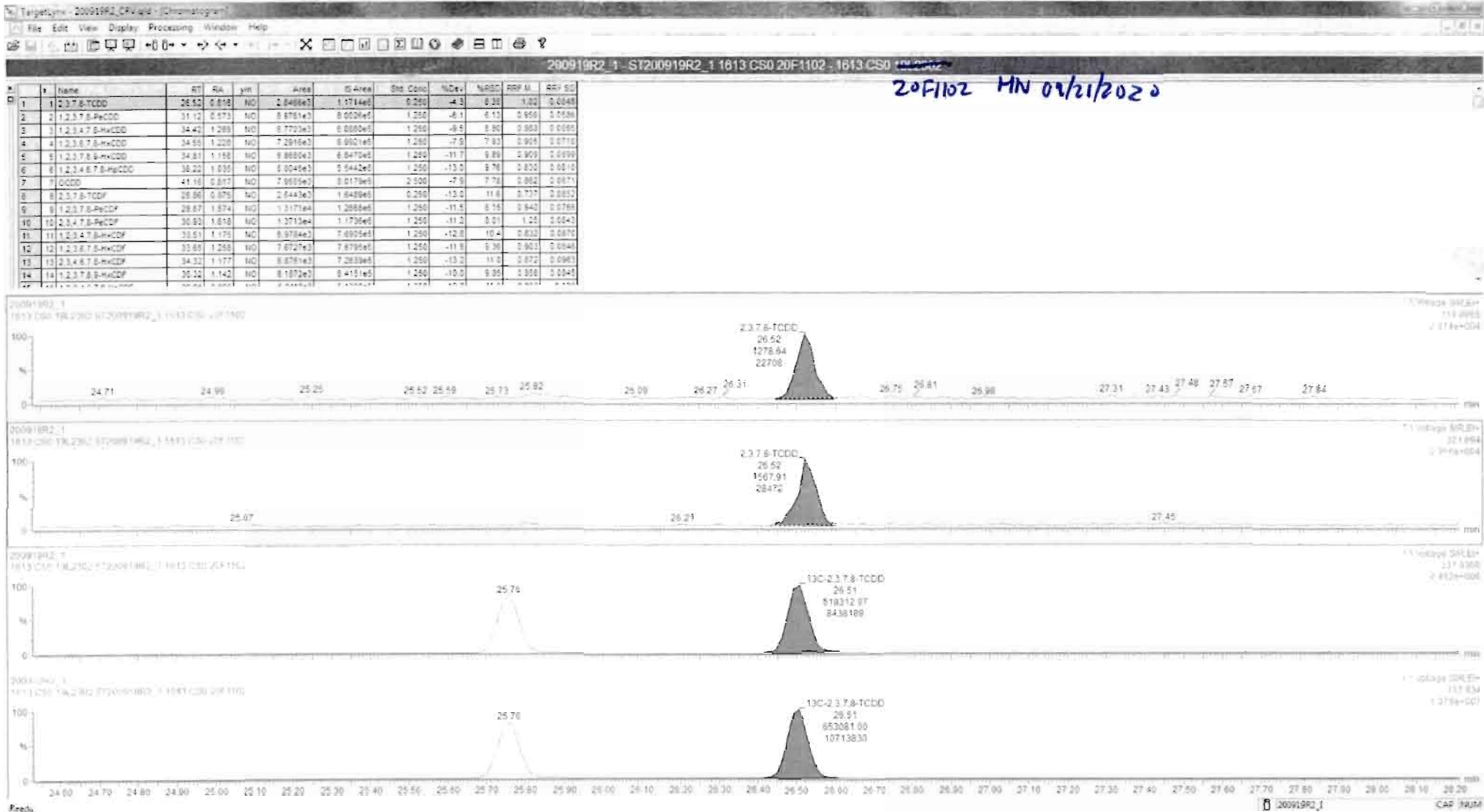
**13C-2,3,7,8-TCDD**

200919R2\_1



200919R2\_1





Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

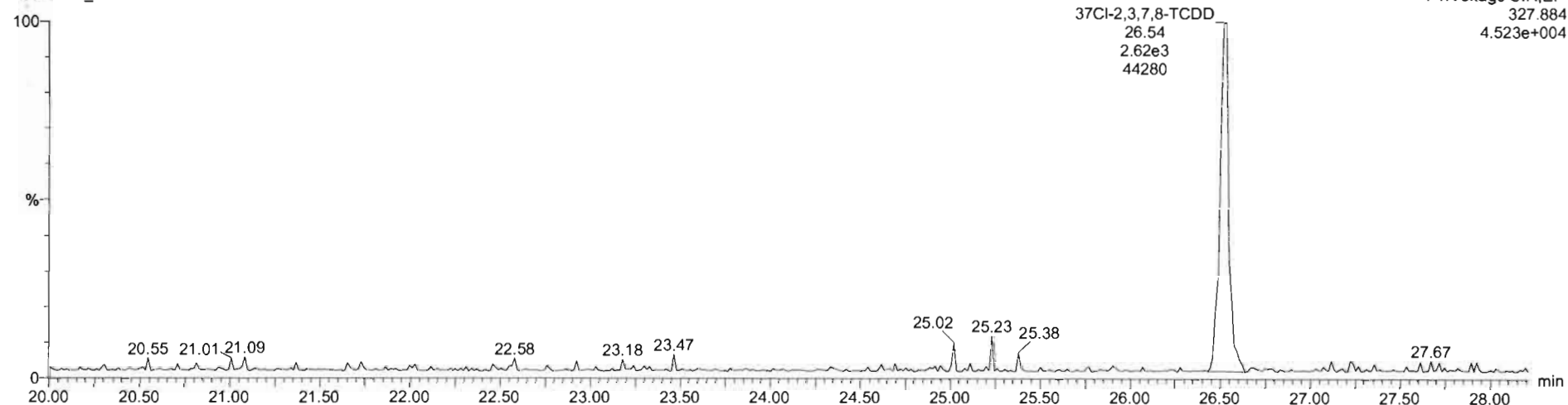
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_1, Date: 19-Sep-2020, Time: 13:41:21, ID: ST200919R2\_1 1613 CS0 20F1102, Description: 1613 CS0 ~~40L2302~~

20F1102 HM 09/21/2020

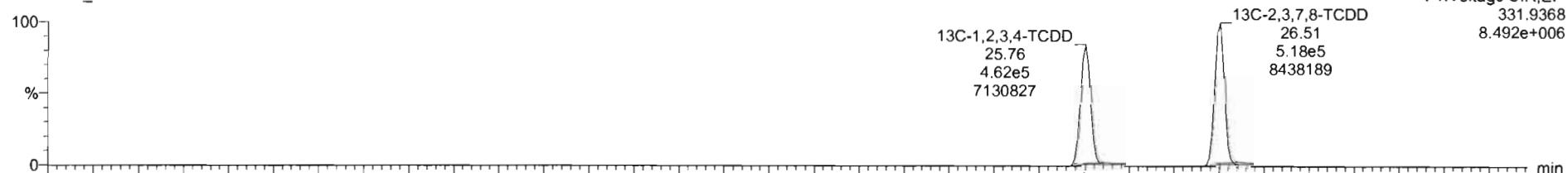
37Cl-2,3,7,8-TCDD

200919R2\_1

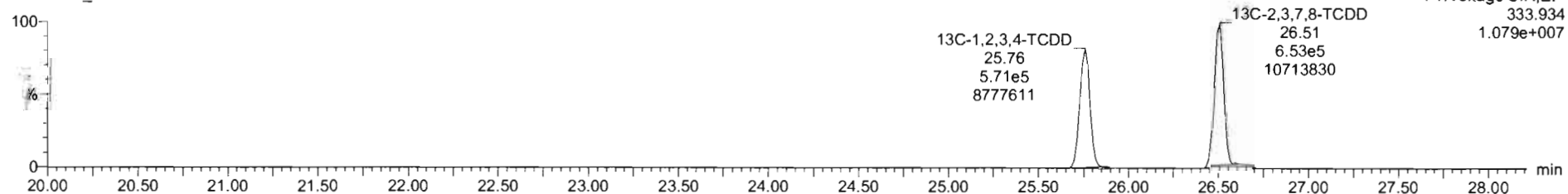


13C-1,2,3,4-TCDD

200919R2\_1



200919R2\_1





Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

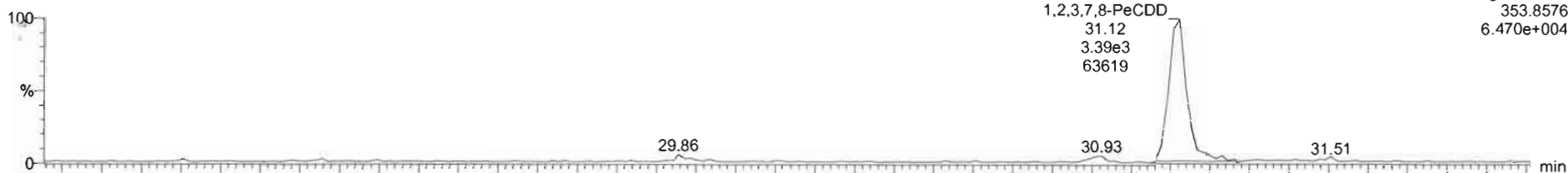
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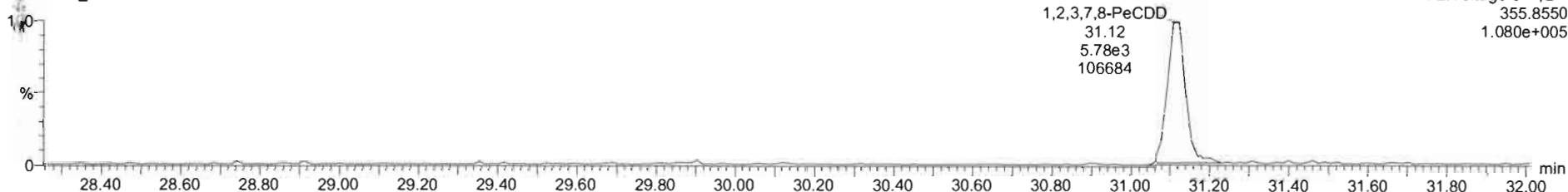
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**1,2,3,7,8-PeCDD**

200919R2\_1

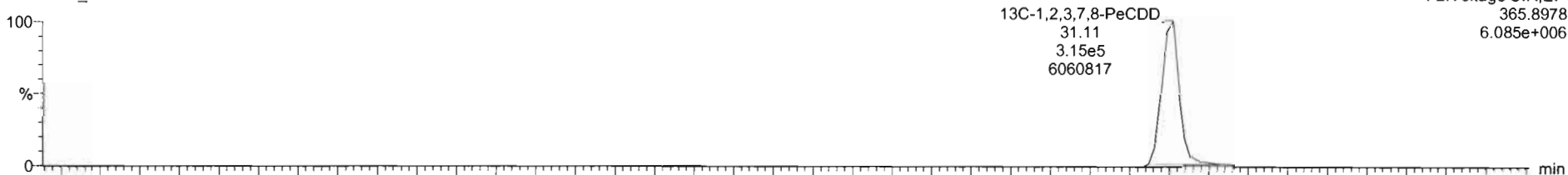


200919R2\_1

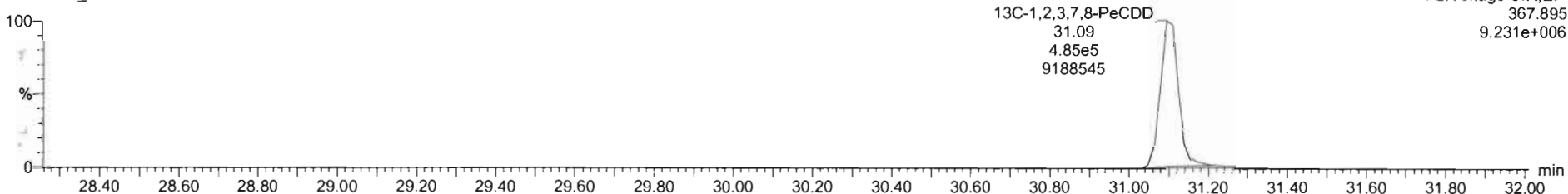


**13C-1,2,3,7,8-PeCDD**

200919R2\_1

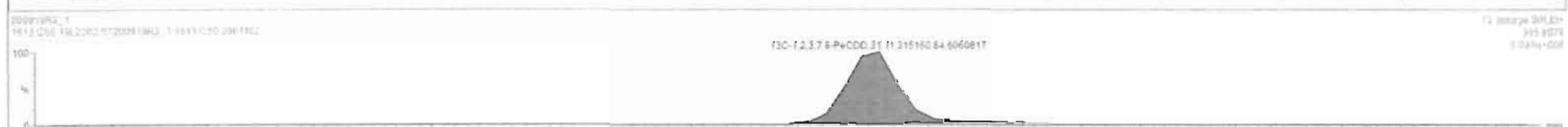


200919R2\_1



#	RT	RA	YH	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD	
1	12.378-TCDD	26.92	0.816	ND	2.0486e3	1.171e0	0.250	-4.3	8.35	1.02	0.0545
2	12.378-PeCDD	31.12	0.573	ND	6.9701e3	6.0020e5	1.250	-6.1	8.13	0.958	0.0586
3	12.378-HxCDD	34.42	1.289	ND	6.7703e3	6.0080e5	1.250	-9.5	8.52	0.951	0.0565
4	12.378-HxCDD	34.95	1.220	ND	7.2919e3	6.0021e5	1.250	-7.9	7.93	0.950	0.0712
5	12.378-HxCDD	34.81	1.155	ND	6.8800e3	6.0470e5	1.250	-11.7	8.88	0.929	0.0899
6	12.378-HxCDD	38.22	1.925	ND	5.0045e3	1.5442e5	1.250	-13.0	9.78	0.830	0.0010
7	OCDD	41.58	0.817	ND	7.9555e3	8.0175e5	2.500	-7.8	7.78	0.862	0.0071
8	12.378-TCDF	25.86	0.875	ND	2.6443e3	1.6489e5	0.250	-13.0	11.8	0.737	0.0352
9	12.378-PeCDF	29.37	1.574	ND	1.3171e4	1.2885e5	1.250	-11.5	6.15	0.940	0.0789
10	12.378-PeCDF	30.92	1.618	ND	1.3715e4	1.1736e5	1.250	-11.2	8.01	1.05	0.0843
11	12.378-HxCDF	33.51	1.175	ND	6.9794e3	7.0905e5	1.250	-12.8	10.4	0.830	0.0670
12	12.378-HxCDF	33.65	1.258	ND	7.0727e3	7.0795e5	1.250	-11.5	9.38	0.903	0.0848
13	12.378-HxCDF	34.32	1.177	ND	6.8791e3	7.2839e5	1.250	-11.2	11.0	0.872	0.0963
14	12.378-HxCDF	35.32	1.142	ND	6.1672e3	6.4151e5	1.250	-10.0	8.95	0.888	0.0045

20F1102 HN 09/21/2002



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

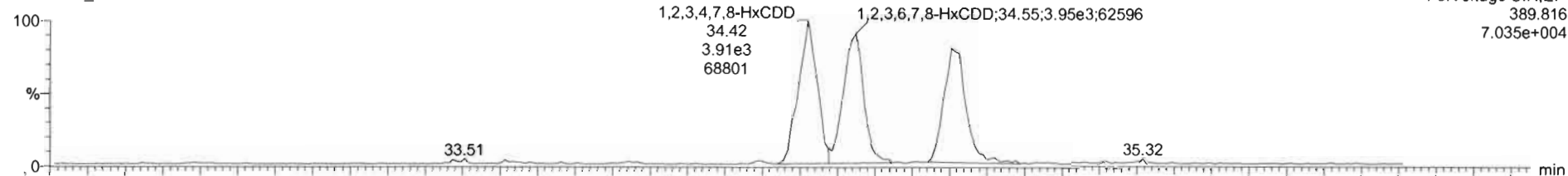
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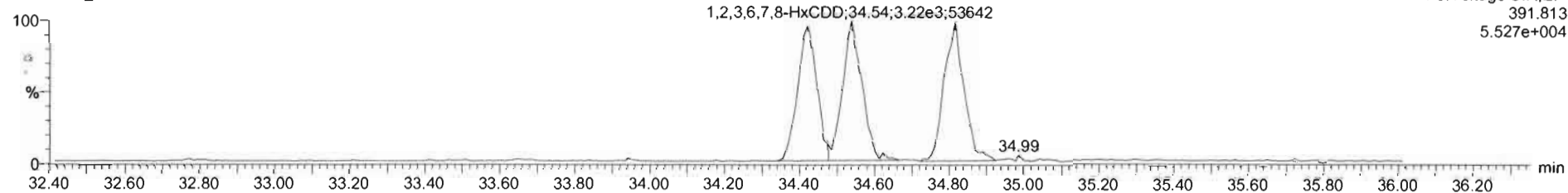
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**1,2,3,4,7,8-HxCDD**

200919R2\_1

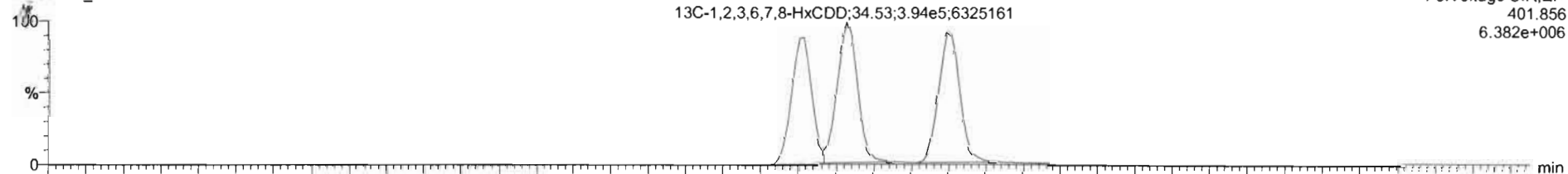


200919R2\_1

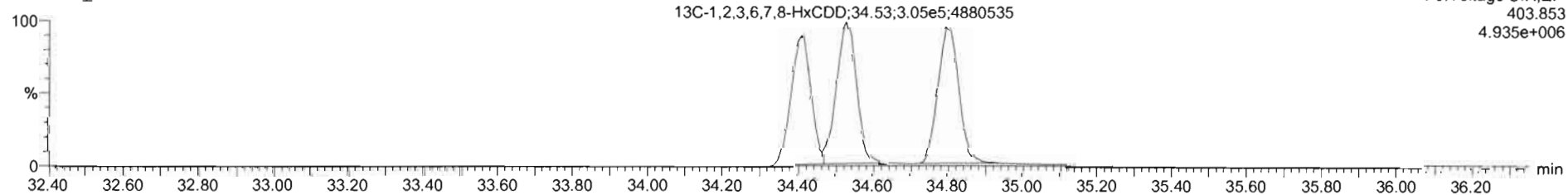


**13C-1,2,3,4,7,8-HxCDD**

200919R2\_1

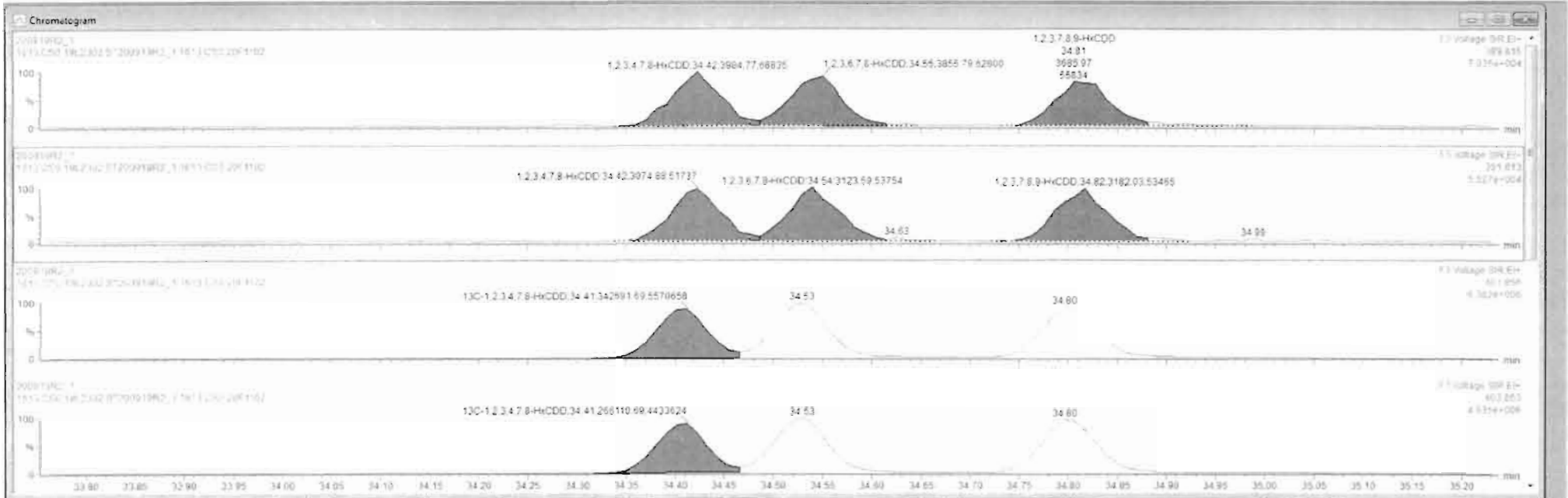


200919R2\_1



#	Name	RT	RA	Yn	Area	S Area	Std Conc	%Dev	NRSD	RRF M	RRF SD
41	Total Hexa-Dioxins				0.0000e0	1.250	0.00	0.000	0.0716		
42	Total Hepta-Dioxins				5.542e5	1.250	9.99	0.832	0.0528		
43	Total Tetra-Furans				1.0400e6	2.250	11.3	0.734	0.0512		
44	1st Func. Penta-Furans				0.0000e0	1.250	0.00	0.930	0.0790		
45	Total Penta-Furans				0.0000e0	1.250	0.00	0.930	0.0796		
46	Total Hexa-Furans				0.0000e0	1.250	10.8	0.970	0.0950		
47	Total Hepta-Furans				0.0000e0	1.250	11.6	0.881	0.103		
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	PFK6					1.000					

20F1102 H1109/21/2020



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

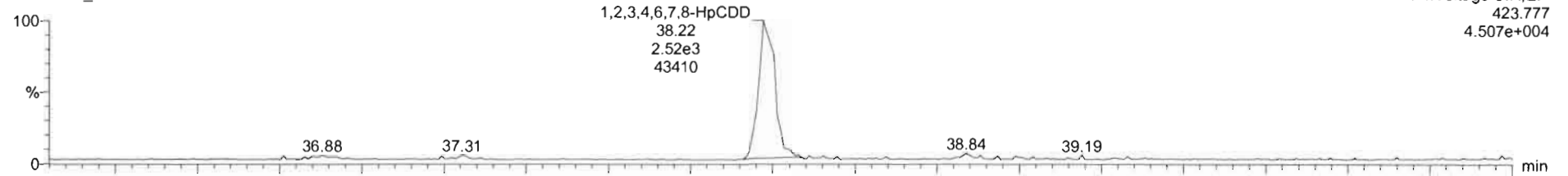
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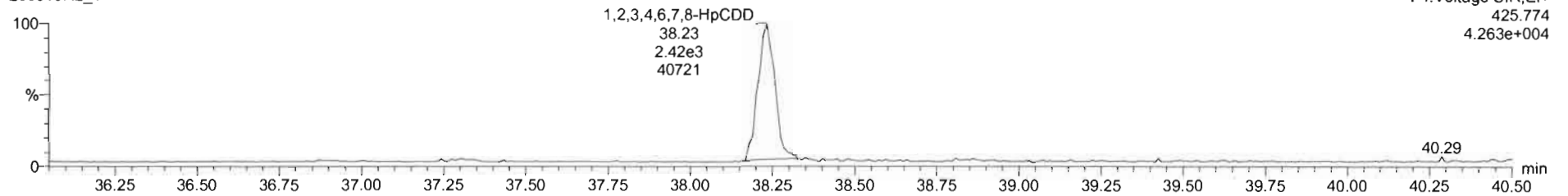
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**1,2,3,4,6,7,8-HpCDD**

200919R2\_1

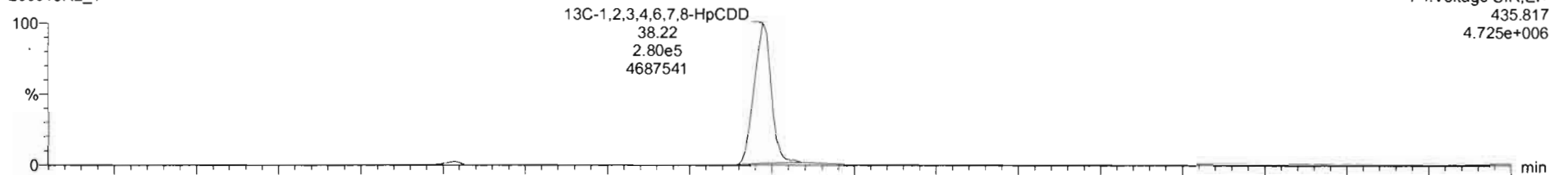


200919R2\_1

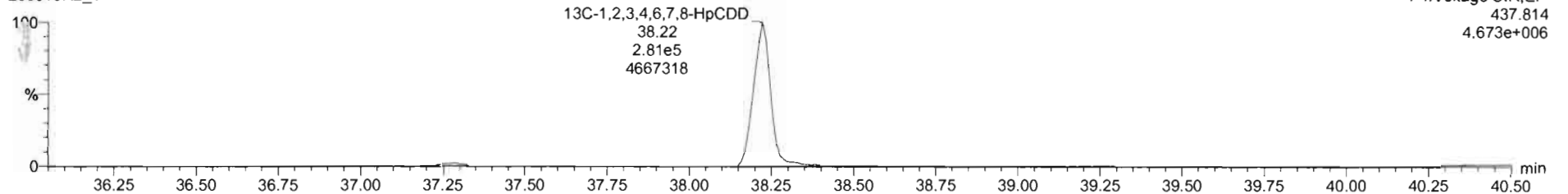


**<sup>13</sup>C-1,2,3,4,6,7,8-HpCDD**

200919R2\_1

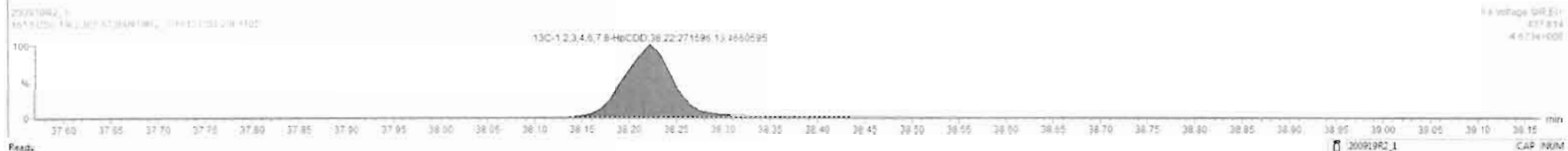


200919R2\_1



200919R2\_1 - ST200919R2\_1 1613 CS0 20F1102 - 1613 CS0 40L 230Z  
 20F1102

#	Name	RT	RA	ym	Area	IS Area	Std Conc	NDev	%RSD	RRF M	RRF SD
1	1,2,3,6,7-CDD	26.52	0.818	NO	2.8486e3	1.1714e8	0.250	-4.3	8.38	1.02	0.0548
2	1,2,3,7,8-PeCDD	31.12	0.873	NO	8.8781e3	2.0026e4	1.250	-8.1	8.13	0.956	0.0586
3	1,2,3,4,7,8-HxCDD	34.42	1.209	NO	6.7703e3	6.0880e4	1.250	-10.4	9.82	0.993	0.0627
4	1,2,3,6,7,8-HxCDD	34.55	1.228	NO	7.2918e3	6.9921e4	1.250	-8.3	8.61	0.996	0.0592
5	1,2,3,7,8,9-HxCDD	34.81	1.193	NO	8.9820e3	8.9470e4	1.250	-11.7	9.89	0.909	0.0690
6	1,2,3,4,6,7,8-PeCDD	36.22	1.035	NO	5.9045e3	5.5442e4	1.250	-12.0	8.78	0.830	0.0810
7	OCDD	41.18	0.517	NO	7.9556e3	8.0173e4	2.500	-7.9	7.70	0.862	0.0671
8	1,2,3,7,8-TCDF	25.86	0.879	NO	2.8443e3	1.8489e8	0.250	-13.0	11.6	0.737	0.0852
9	1,2,3,7,8-PeCDF	26.87	1.574	NO	1.3171e4	1.2666e8	1.250	-11.9	8.12	0.840	0.0786
10	1,2,3,4,7,8-PeCDF	30.92	1.618	NO	1.3713e4	1.1738e8	1.250	-11.2	8.01	1.05	0.0843
11	1,2,3,4,7,8-HxCDF	33.51	1.175	NO	8.9794e3	7.8905e4	1.250	-12.8	10.4	0.832	0.0870
12	1,2,3,6,7,8-HxCDF	33.65	1.258	NO	7.8727e3	7.8795e4	1.250	-11.9	9.38	0.903	0.0848
13	1,2,3,4,6,7,8-HxCDF	34.32	1.177	NO	8.8791e3	7.2839e4	1.250	-13.2	11.0	0.872	0.0963
14	1,2,3,7,8,9-HxCDF	35.32	1.142	NO	8.1872e3	8.4191e4	1.250	-10.0	9.92	0.858	0.0845



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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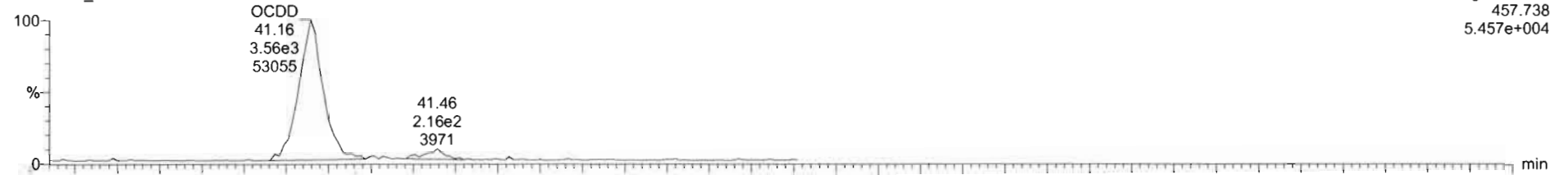
HN 09/21/2020

20F102

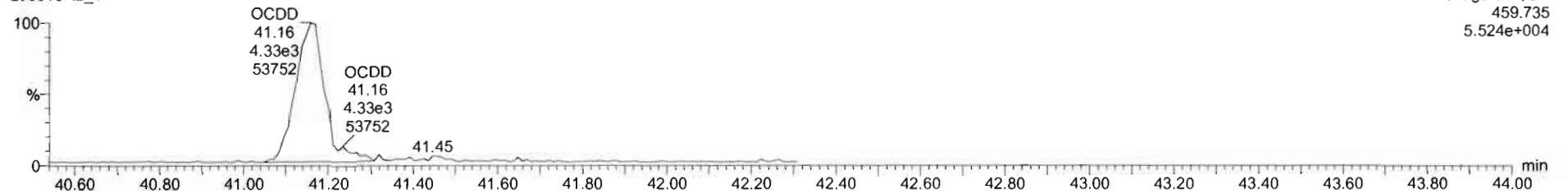
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OCDD

200919R2\_1

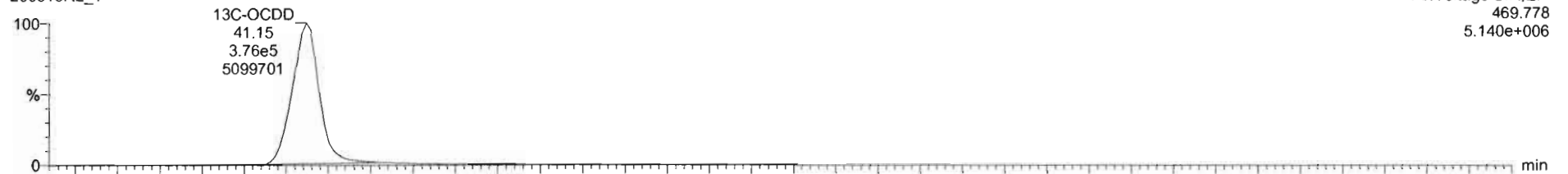


200919R2\_1

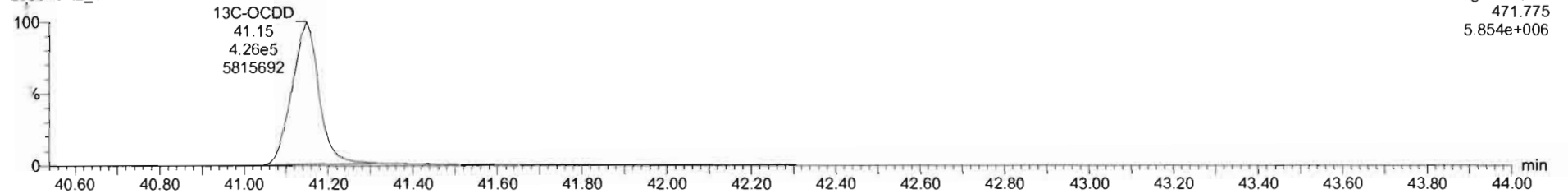


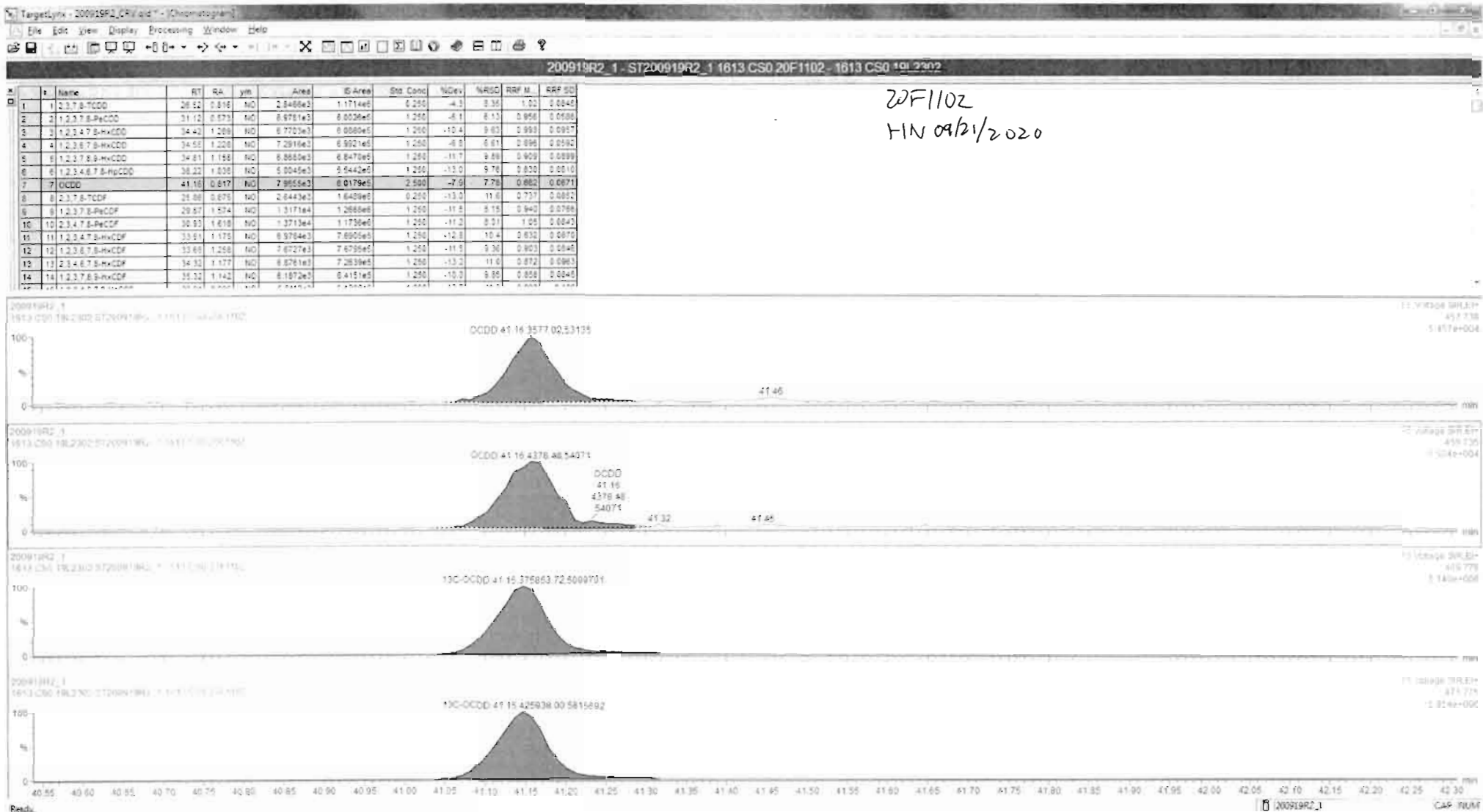
13C-OCDD

200919R2\_1



200919R2\_1







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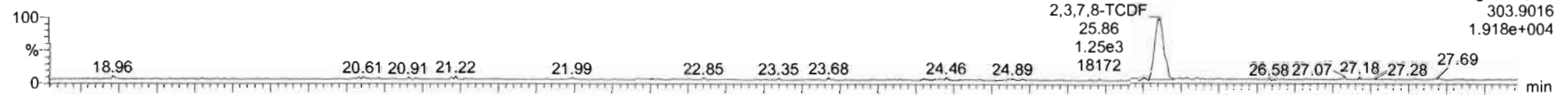
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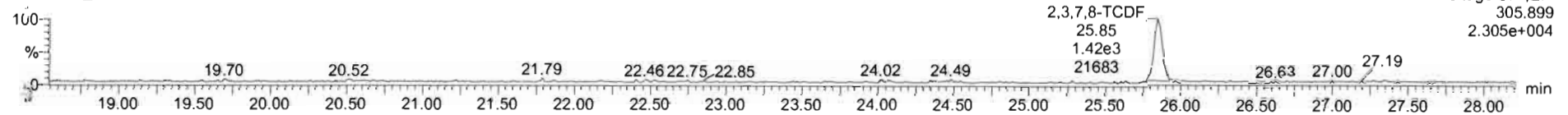
**2,3,7,8-TCDF**

200919R2\_1



F1:Voltage SIR,EI+  
303.9016  
1.918e+004

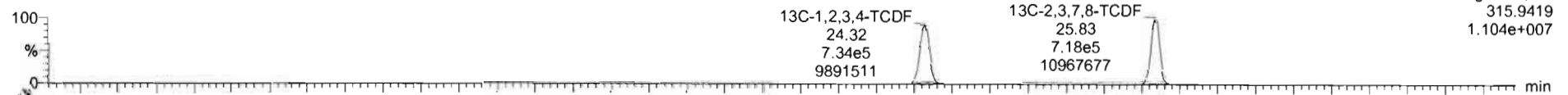
200919R2\_1



F1:Voltage SIR,EI+  
305.899  
2.305e+004

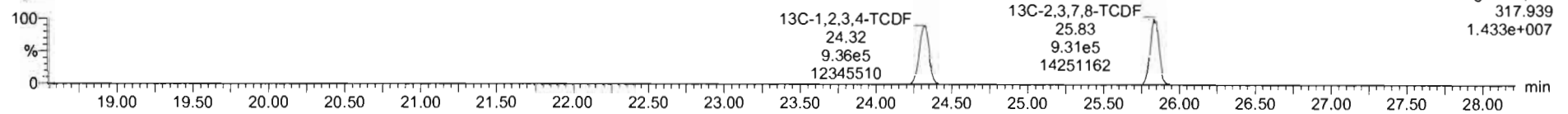
**13C-2,3,7,8-TCDF**

200919R2\_1



F1:Voltage SIR,EI+  
315.9419  
1.104e+007

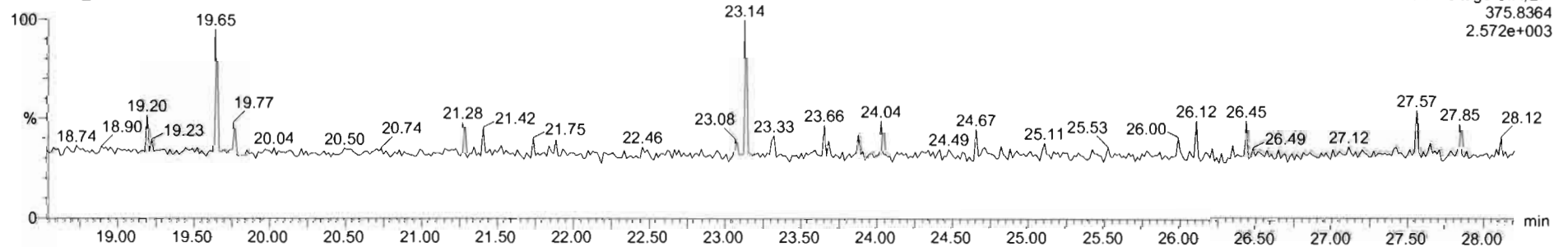
200919R2\_1



F1:Voltage SIR,EI+  
317.939  
1.433e+007

**DPE1**

200919R2\_1

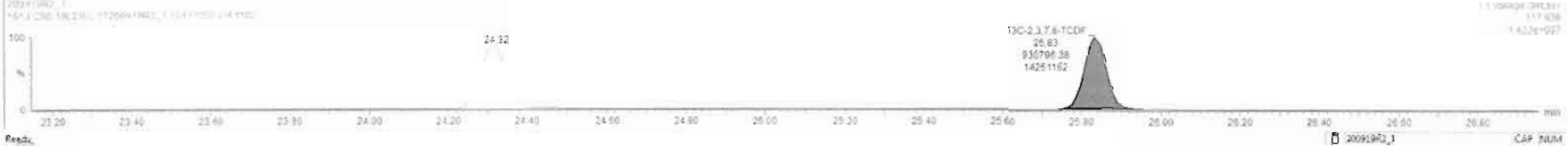
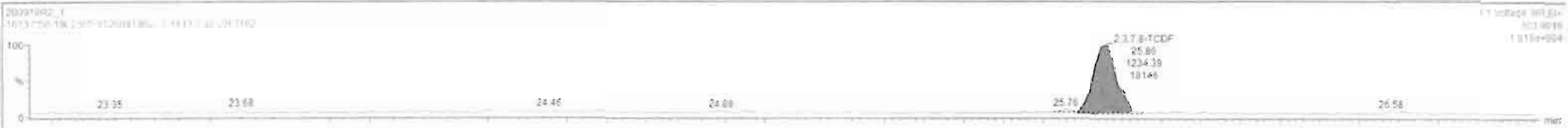


F1:Voltage SIR,EI+  
375.8364  
2.572e+003

200919R2\_1 - ST200919R2\_1 1613 CS0 20F1102 - 1613 CS0 401 2202

20F1102 HN09/21/2020

#	Name	RT	RA	Yn	Area	IS Area	Std. Conc	%Dev	NMRD	RRF M	RRF SD
1	2,3,7,8-TCDF	26.62	0.816	NO	2848640	1171448	0.260	-4.3	8.30	1.00	0.0940
2	1,2,3,7,8-PeCDF	31.12	0.573	NO	8978143	8002645	1.250	-8.1	6.13	0.996	0.0596
3	1,2,3,4,7,8-HxCDF	34.42	1.289	NO	6770363	6088045	1.250	-10.4	9.93	0.993	0.0967
4	1,2,3,6,7,8-HxCDF	34.55	1.226	NO	7291663	6992145	1.250	-6.0	6.61	0.996	0.0582
5	1,2,3,7,8,9-HxCDF	34.81	1.198	NO	6868363	6847045	1.250	-11.7	9.89	0.909	0.0899
6	1,2,3,4,6,7,8-HpCDF	39.22	1.036	NO	6084563	5544245	1.250	-13.0	6.76	0.830	0.0610
7	OCDF	41.18	0.817	NO	7955563	3017945	2.000	-7.9	7.76	0.802	0.0671
8	2,3,7,8-TCDF	26.66	0.876	NO	2644363	1640945	0.260	-15.0	11.6	0.737	0.0662
9	1,2,3,7,8-PeCDF	29.87	1.574	NO	1317144	1288645	1.250	-11.8	6.15	0.940	0.0786
10	1,2,3,4,7,8-PeCDF	30.93	1.618	NO	1371364	1170645	1.250	-11.3	8.01	1.05	0.0843
11	1,2,3,4,7,8-HxCDF	33.51	1.170	NO	8978463	7809545	1.250	-12.8	10.4	0.832	0.0870
12	1,2,3,6,7,8-HxCDF	33.66	1.258	NO	7872163	7679545	1.250	-11.0	9.36	0.903	0.0848
13	1,2,3,4,6,7,8-HpCDF	34.32	1.177	NO	8078163	7263945	1.250	-15.2	11.0	0.872	0.0963
14	1,2,3,7,8,9-HxCDF	35.32	1.142	NO	8187263	6415145	1.250	-10.0	9.95	0.858	0.0645



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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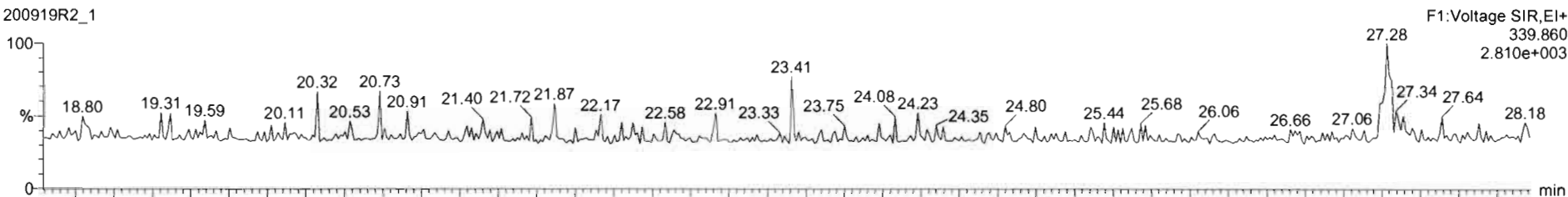
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

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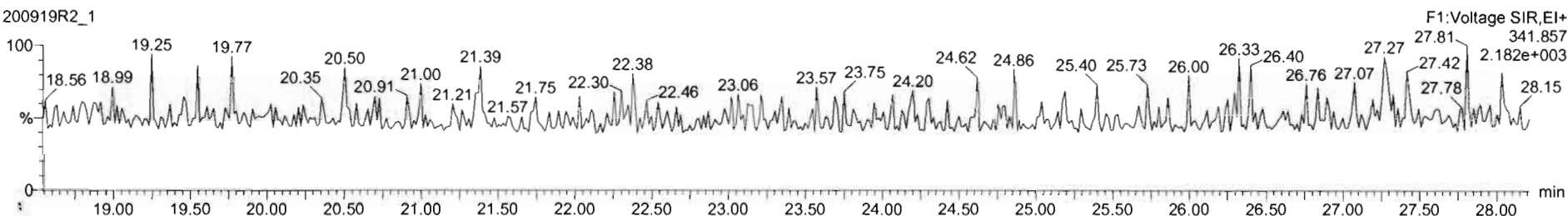
20F1102  
LIN 09/21/2020

1st Func. Penta-Furans

200919R2\_1

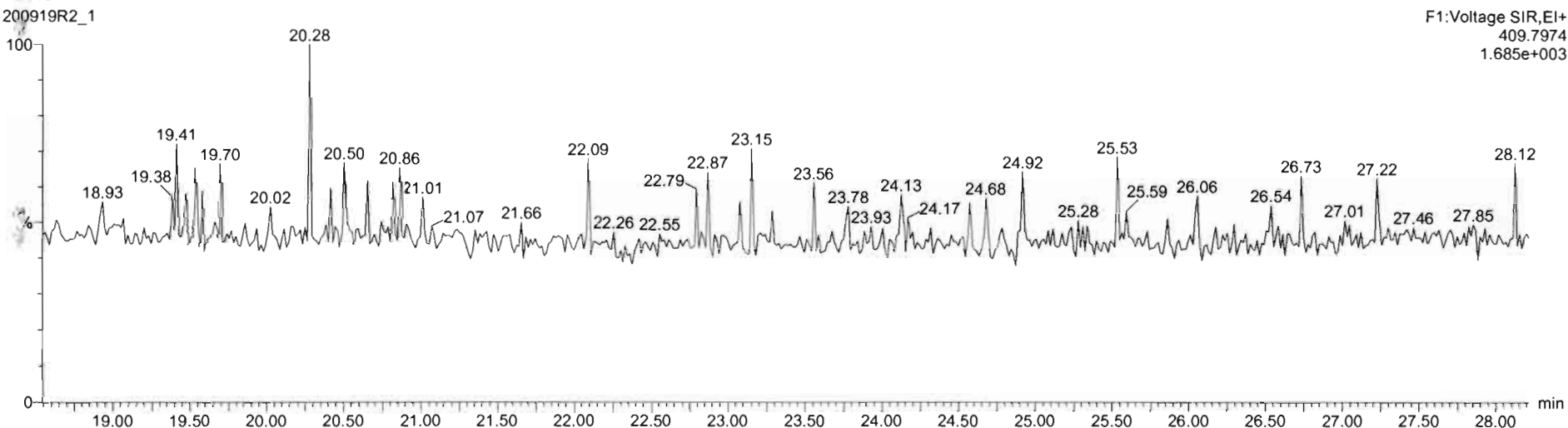


200919R2\_1



DPE6

200919R2\_1



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

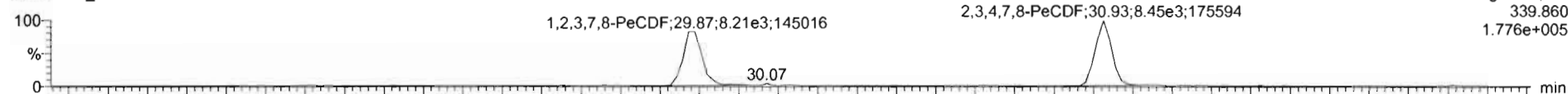
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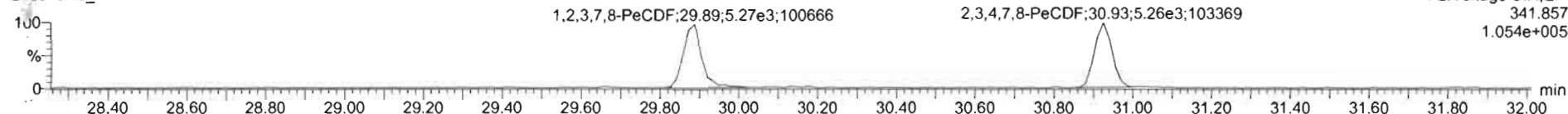
20F1102  
HW 09/21/2020

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

200919R2\_1

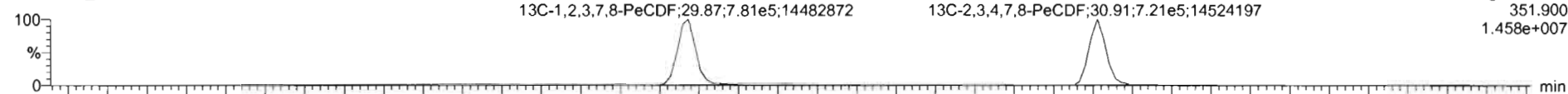


200919R2\_1

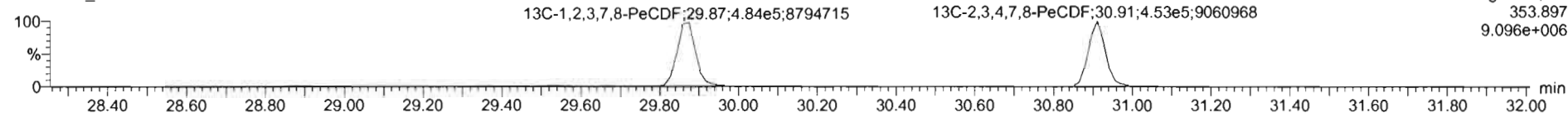


**13C-1,2,3,7,8-PeCDF**

200919R2\_1

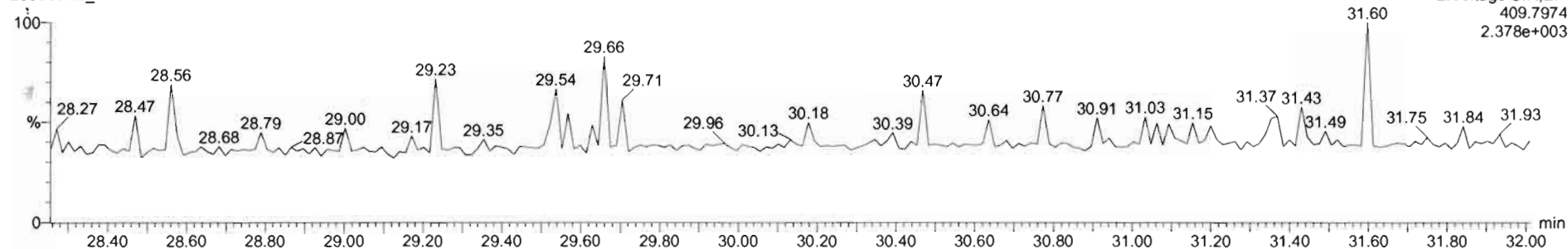


200919R2\_1



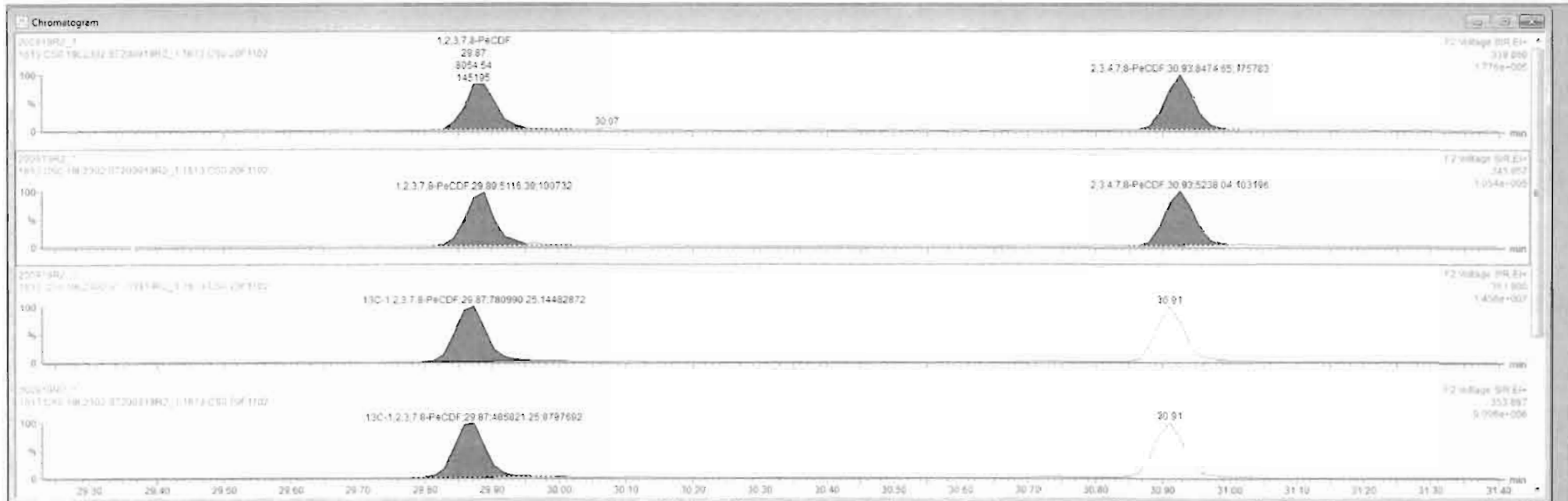
**DPE2**

200919R2\_1



#	Name	RT	RA	Yth	Area	%Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
41	Total Hexa-Dioxins				0.0000e0	1.250		8.39	0.588	0.0716	
42	Total Hepta-Dioxins				8.5442e1	1.250		9.94	0.632	0.0528	
43	Total Tetra-Furans				1.9489e1	0.250		11.3	0.735	0.0532	
44	1st Func. Penta-Furans				0.0000e0	1.250		9.35	0.939	0.0758	
45	Total Penta-Furans				0.0000e0	1.250		8.96	0.939	0.0758	
46	Total Hexa-Furans				0.0000e0	1.250		10.5	0.870	0.0930	
47	Total Hepta-Furans				0.0000e0	1.250		11.6	0.891	0.103	
48	PK1				1.000						
49	PK2				1.000						
50	PK3				1.000						
51	PK4				1.000						
52	PK5				1.000						
53	PK6				1.000						

20F1102  
HN09/21/200



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

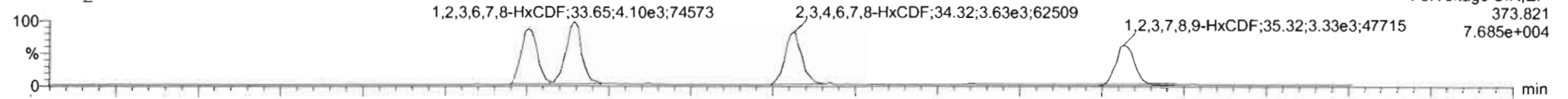
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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_1, Date: 19-Sep-2020, Time: 13:41:21, ID: ST200919R2\_1 1613 CS0 20F1102, Description: 1613 CS0 ~~10L2302~~

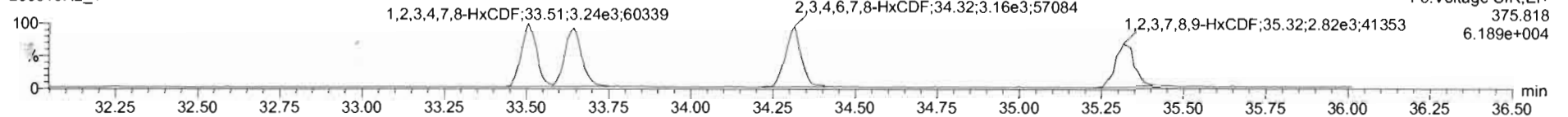
~~70~~  
20F1102  
HN 09/21/2020

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

200919R2\_1

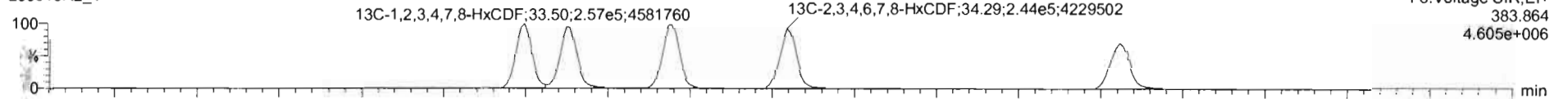


200919R2\_1

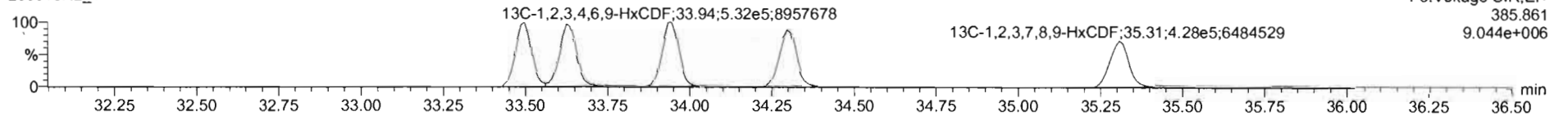


13C-1,2,3,4,7,8-HxCDF

200919R2\_1

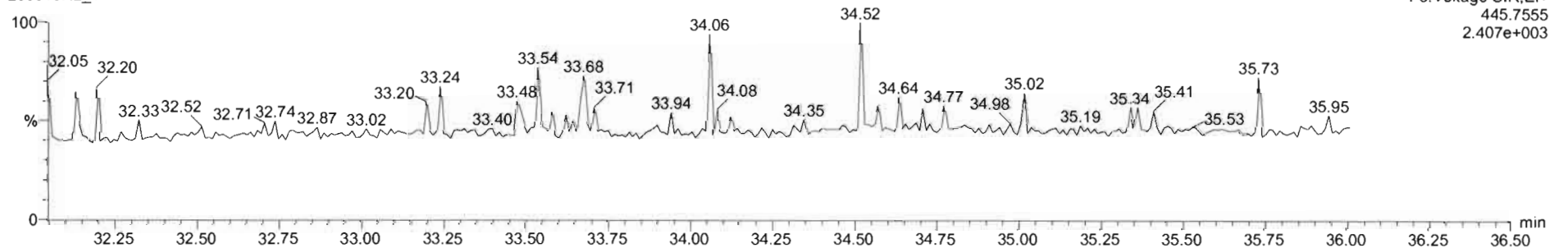


200919R2\_1



DPE3

200919R2\_1



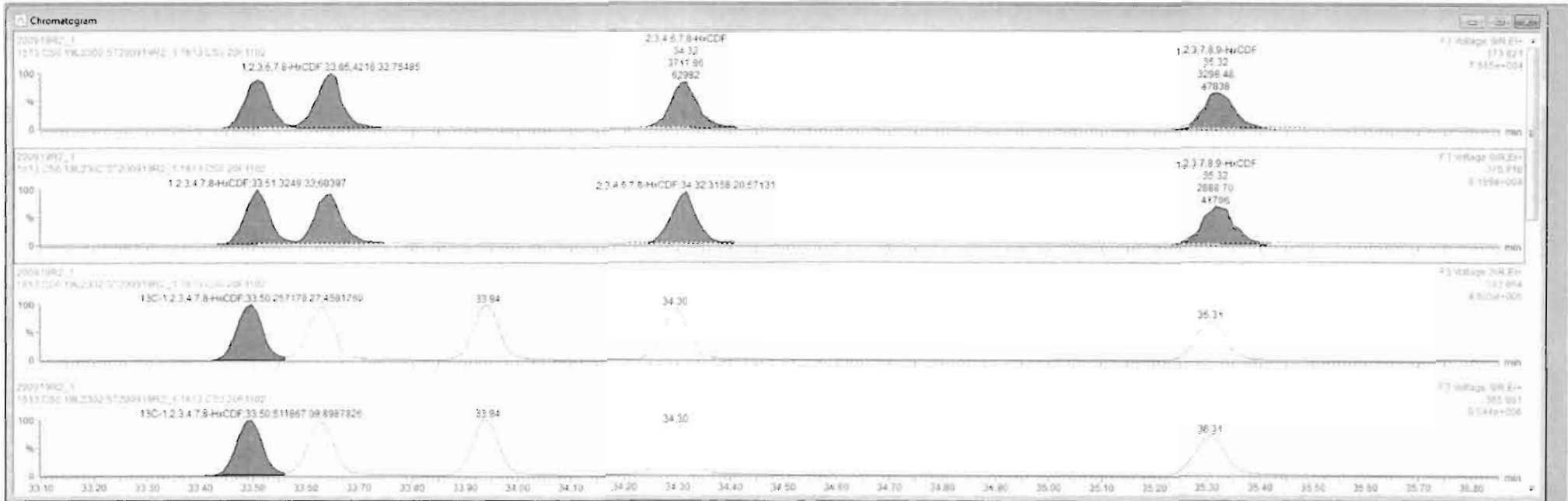
TargetLynx - 200919R2\_CIV.eid

File Edit View Display Processing Window Help

200919R2\_1 - ST200919R2\_1 1613 CS0 20F1102 - 1613 CS0

20F1102  
HN09/21/2020

ID	Name	RT	RA	Yn	Area	IS Area	Std. Conc.	NDev	NRSD	RRF M	RRF SD
41	41 Total Hexa-Dioxins				0.0000e0	1.250			8.30	0.888	1.0716
42	42 Total Hepta-Dioxins				9.5442e5	1.250			9.96	0.832	0.0028
43	43 Total Tetra-Furans				1.0400e0	0.250			11.3	0.735	0.0032
44	44 Tet Func. Penta-Furans				0.0000e0	1.250			3.36	0.928	0.0756
45	45 Total Penta-Furans				0.0000e0	1.250			6.36	0.928	0.0756
46	46 Total Hexa-Furans				0.0000e0	1.250			10.8	0.870	0.0030
47	47 Total Hepta-Furans				0.0000e0	1.250			11.6	0.891	0.103
48	48 PFK1					1.000					
49	49 PFK2					1.000					
50	50 PFK3					1.000					
51	51 PFK4					1.000					
52	52 PFK5					1.000					
63	63 PFK6					1.000					



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

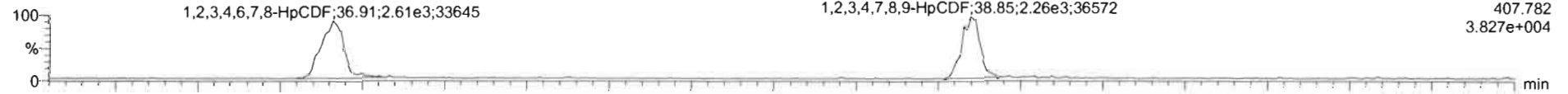
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HN 09/21/2020  
20F1102

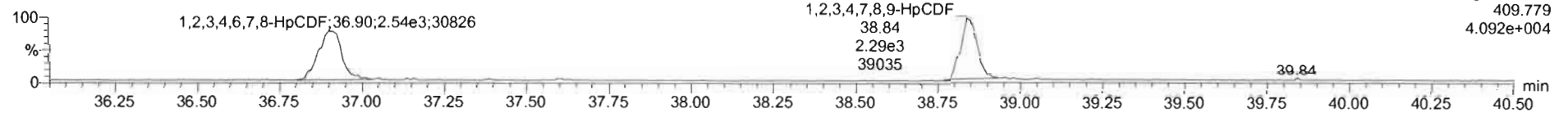
Name: 200919R2\_1, Date: 19-Sep-2020, Time: 13:41:21, ID: ST200919R2\_1 1613 CS0 20F1102, Description: 1613 CS0 ~~19L2302~~

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

200919R2\_1

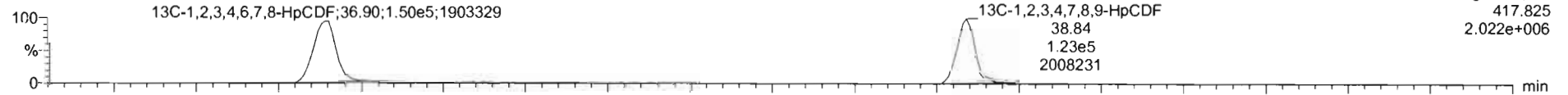


200919R2\_1

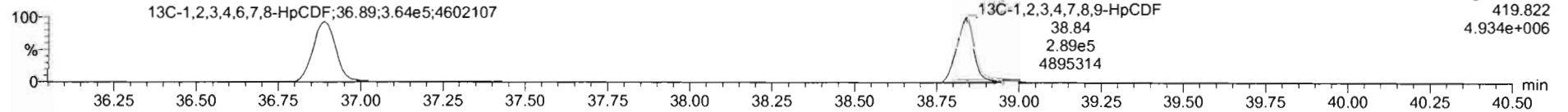


13C-1,2,3,4,6,7,8-HpCDF

200919R2\_1

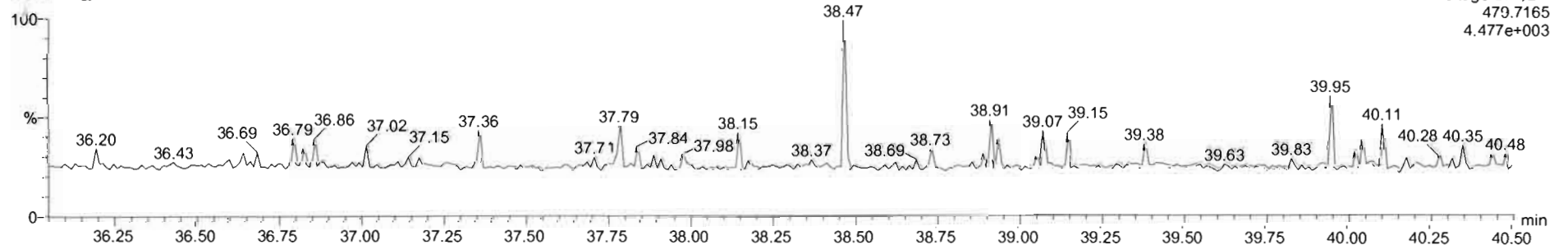


200919R2\_1



DPE4

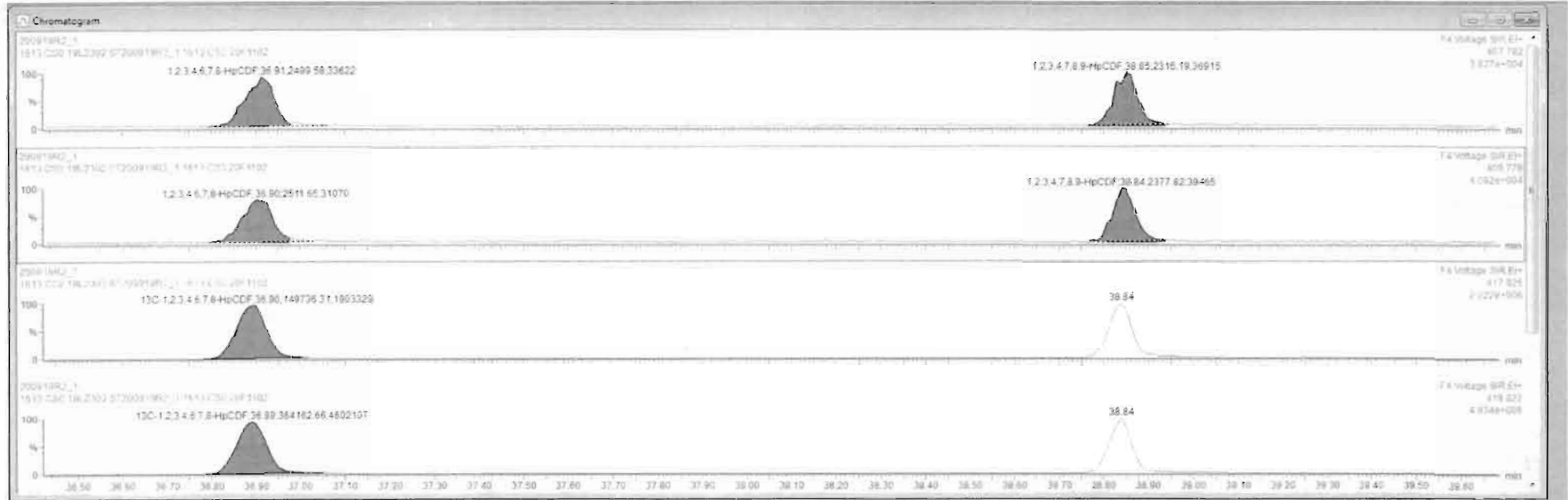
200919R2\_1





#	Name	RT	RA	YR	Area	IS Area	Std. Conc.	%Dev.	NRSD	RRF M	RRF SD
41	Total Hexa-Dioxins				0.0000e0	1.250	0.00	0.888	0.0718		
42	Total Hepta-Dioxins				8.5426e1	1.250	8.90	0.832	0.0028		
43	Total Tetra-Furans				1.8489e1	0.250	11.3	0.751	0.0032		
44	1st Func. Penta-Furans				0.0000e0	1.250	0.00	0.938	0.0756		
45	Total Penta-Furans				0.0000e0	1.250	0.00	0.939	0.0756		
46	Total Hexa-Furans				0.0000e0	1.250	10.0	0.870	0.0930		
47	Total Hepta-Furans				0.0000e0	1.250	11.8	0.891	0.103		
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	PFK6					1.000					

20F1102  
 HN 09/21/2020



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_1, Date: 19-Sep-2020, Time: 13:41:21, ID: ST200919R2\_1 1613 CS0 20F1102, Description: 1613 CS0 ~~19L2302~~

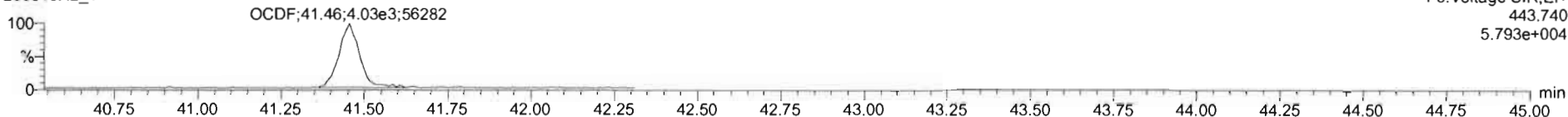
*HN 09/21/2020*  
*20F1102*

**OCDF**

200919R2\_1

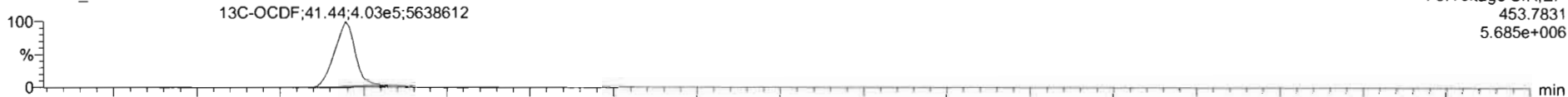


200919R2\_1

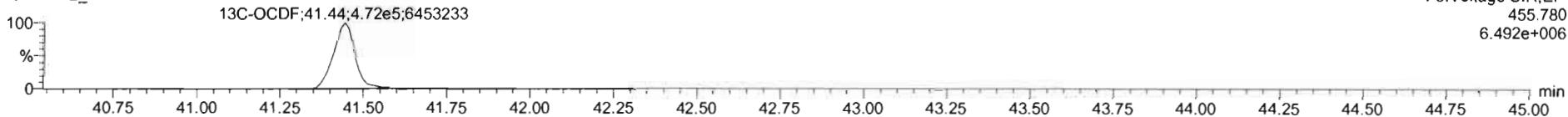


**13C-OCDF**

200919R2\_1

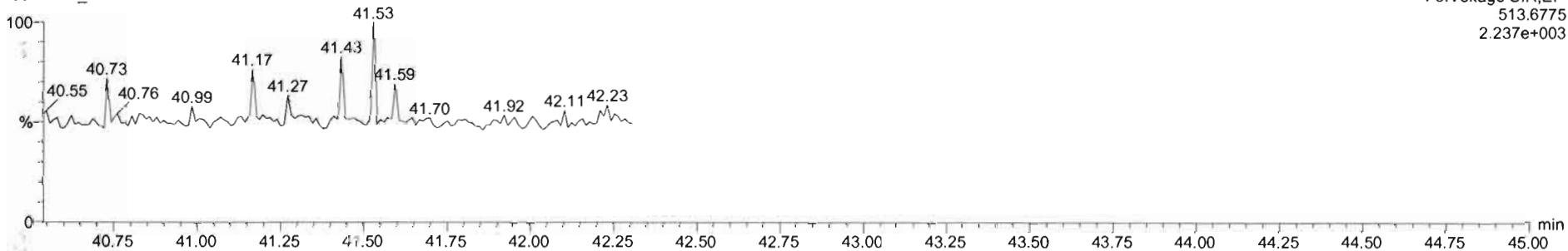


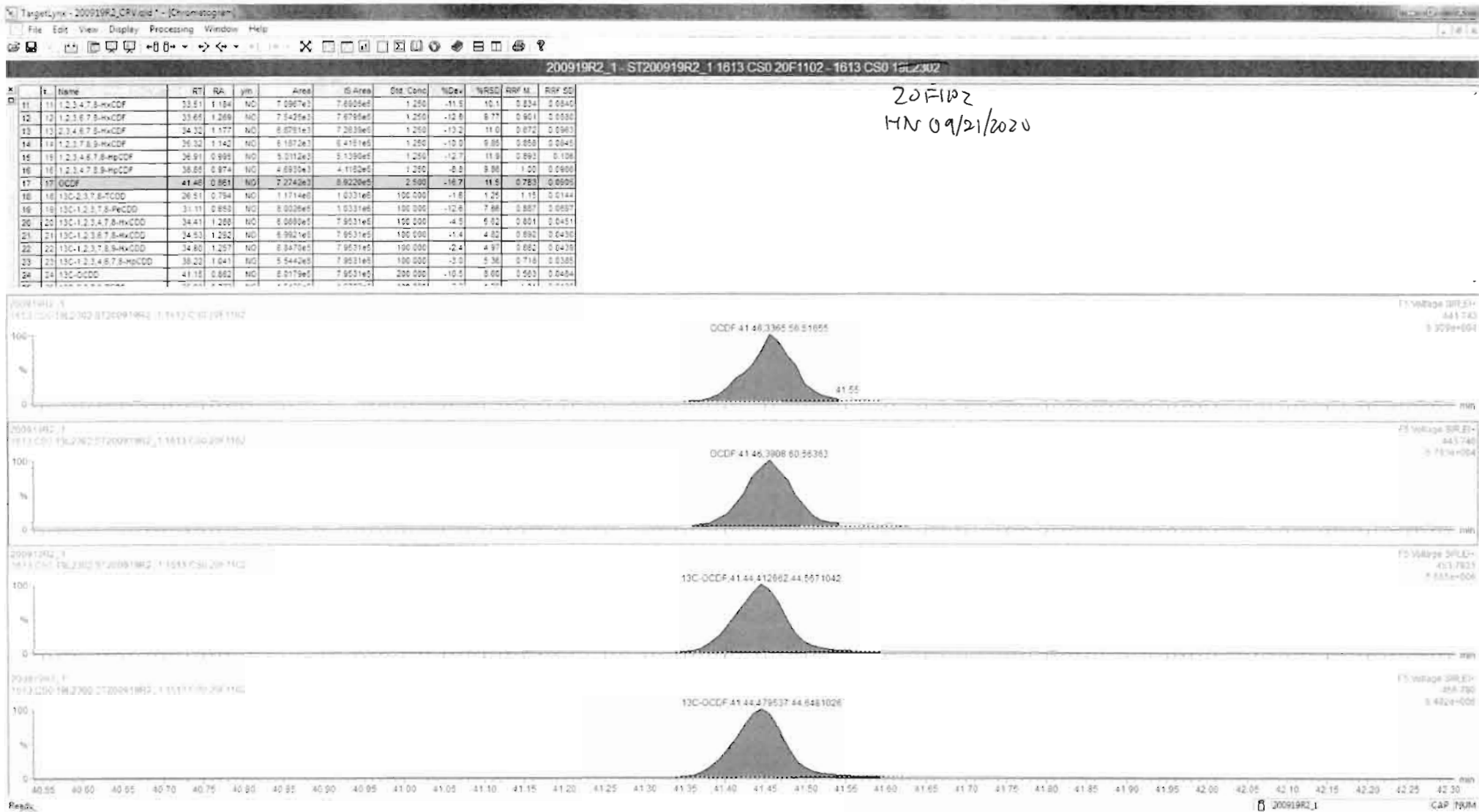
200919R2\_1



**D1-E5**

200919R2\_1





Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

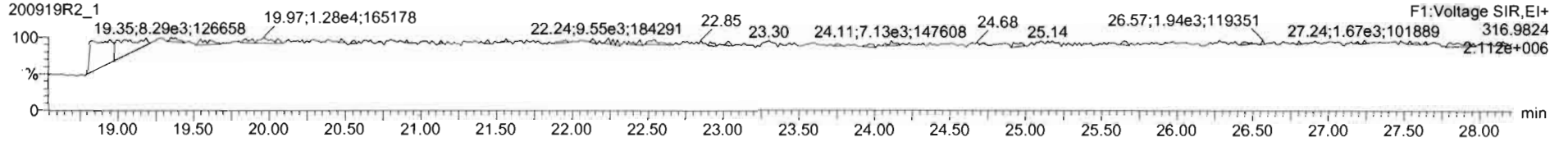
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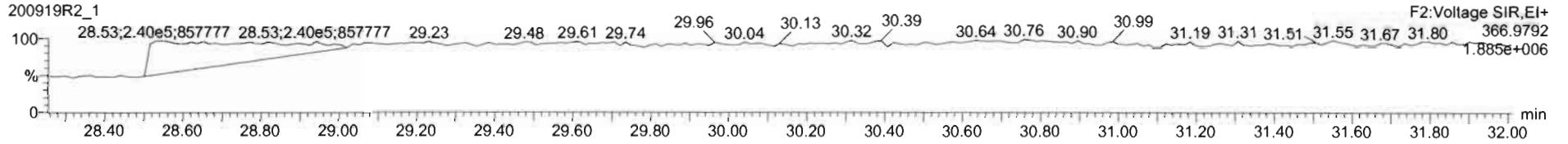
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20F1102  
HN 09/21/2020

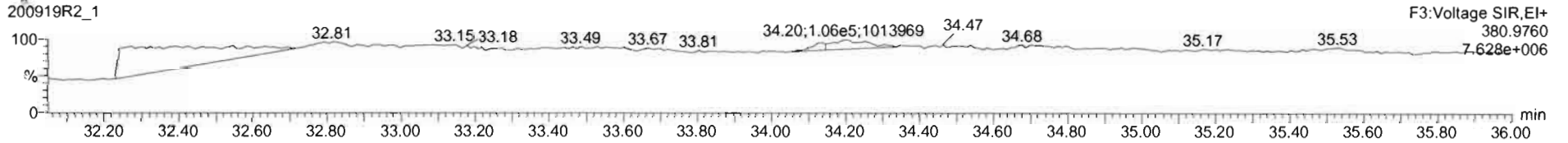
**PFK1**



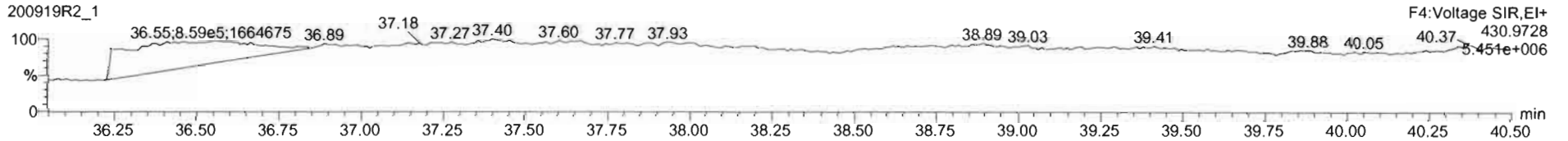
**PFK2**



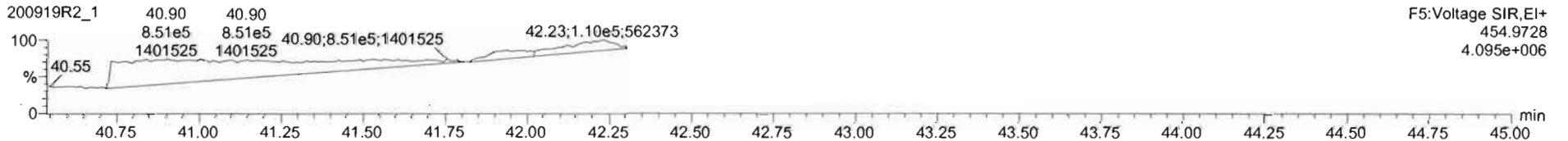
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

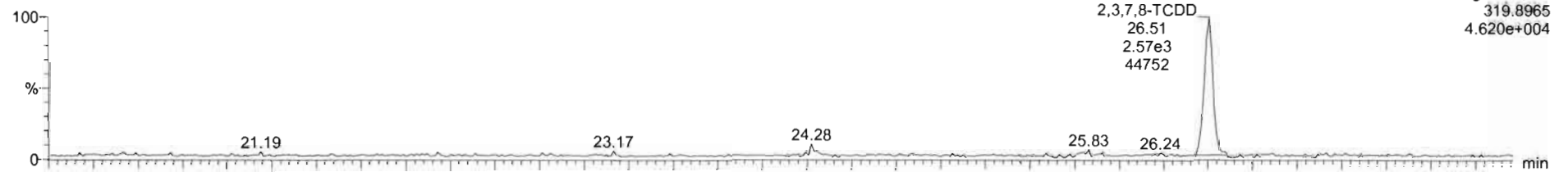
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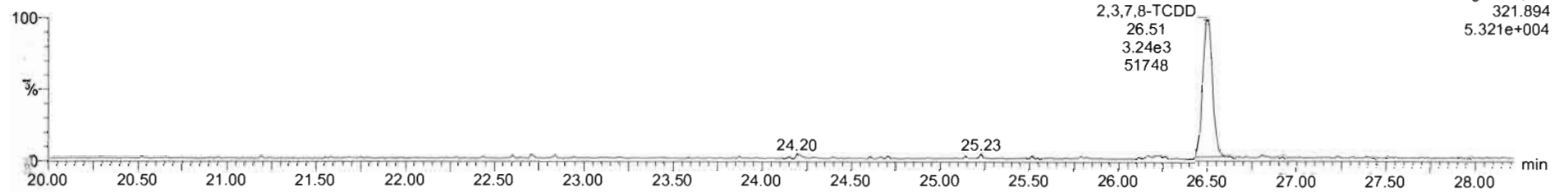
20F1103  
~~20F1102~~  
HN09/21/2020

2,3,7,8-TCDD

200919R2\_2

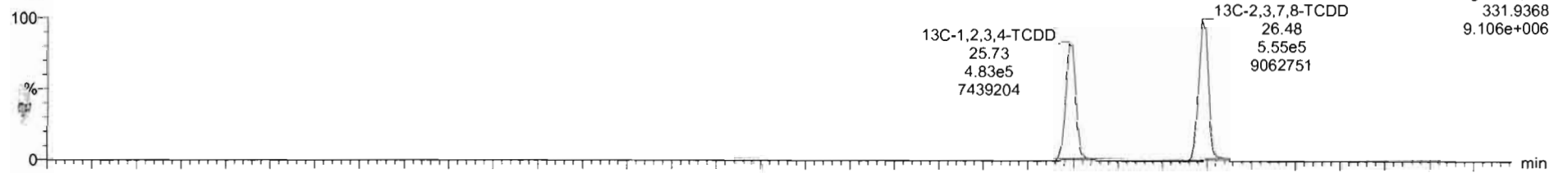


200919R2\_2

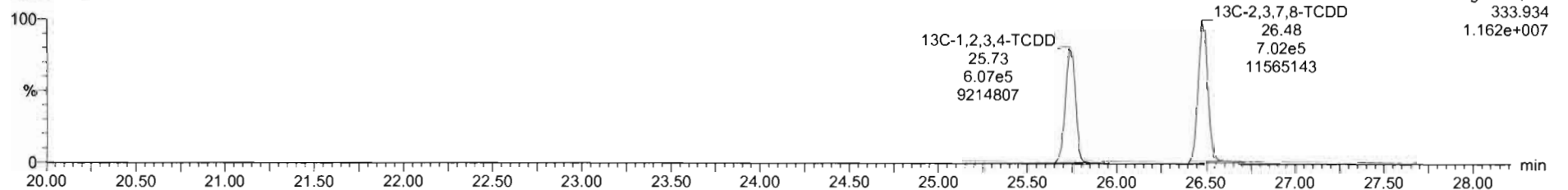


13C-2,3,7,8-TCDD

200919R2\_2



200919R2\_2





Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

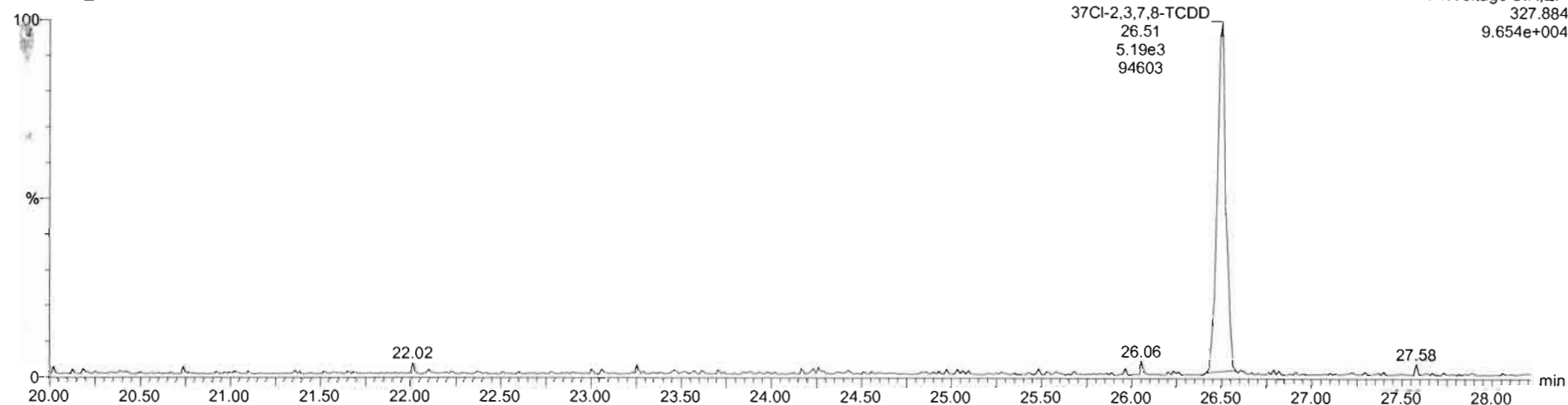
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

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20F1103  
19L2303  
HN 09/21/2020

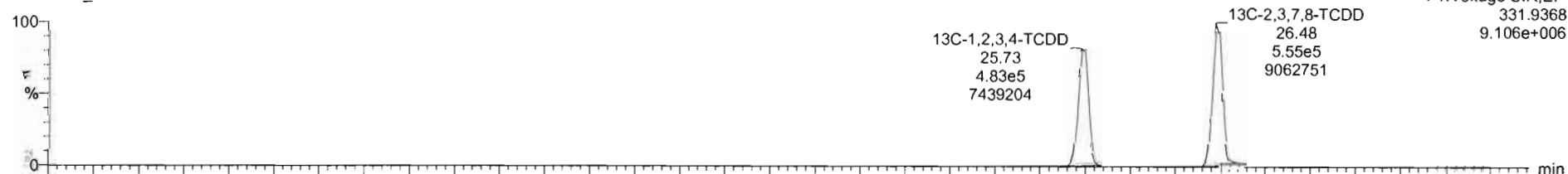
37Cl-2,3,7,8-TCDD

200919R2\_2

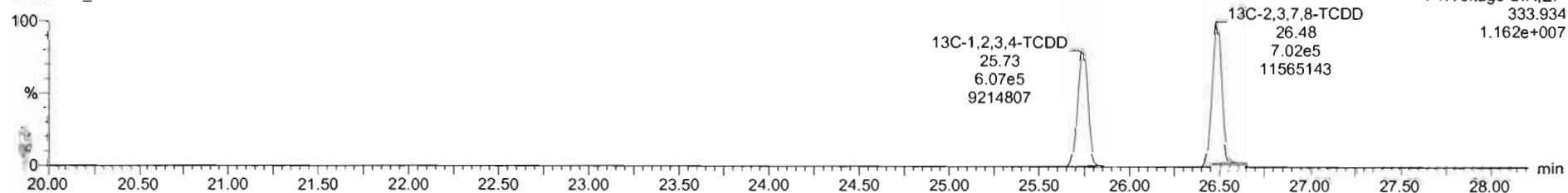


13C-1,2,3,4-TCDD

200919R2\_2



200919R2\_2



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

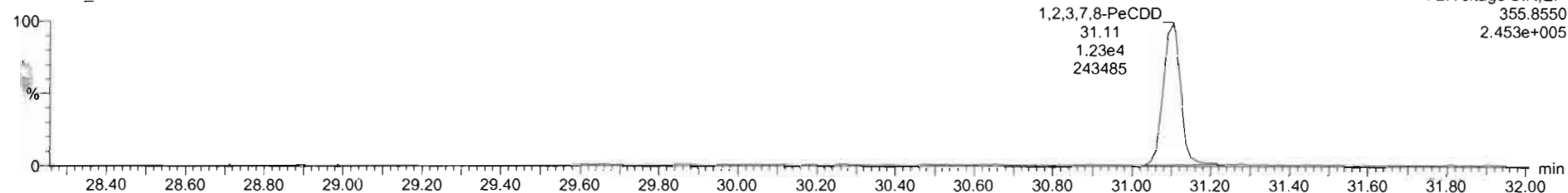
Name: 200919R2\_2, Date: 19-Sep-2020, Time: 14:26:28, ID: ST200919R2\_2 1613 CS1 20F1103, Description: 1613 CS1 ~~19L2303~~  
20F1103  
HN 09/21/2020

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

200919R2\_2

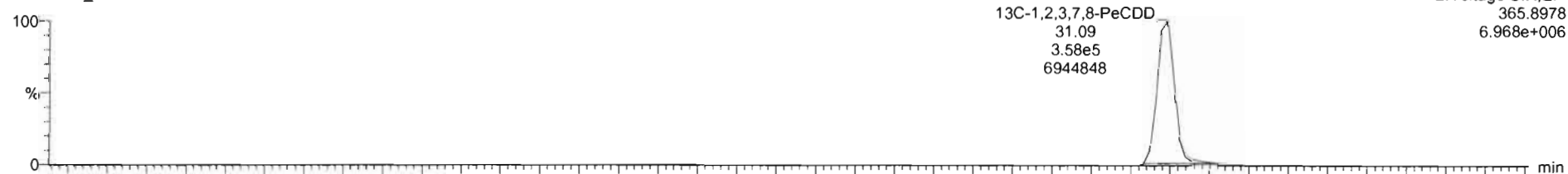


200919R2\_2

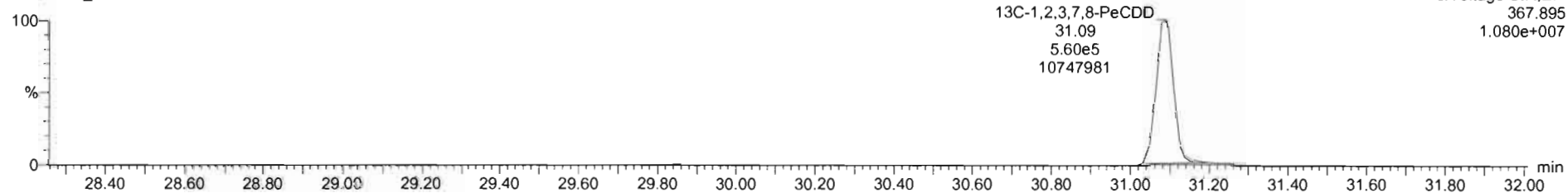


**13C-1,2,3,7,8-PeCDD**

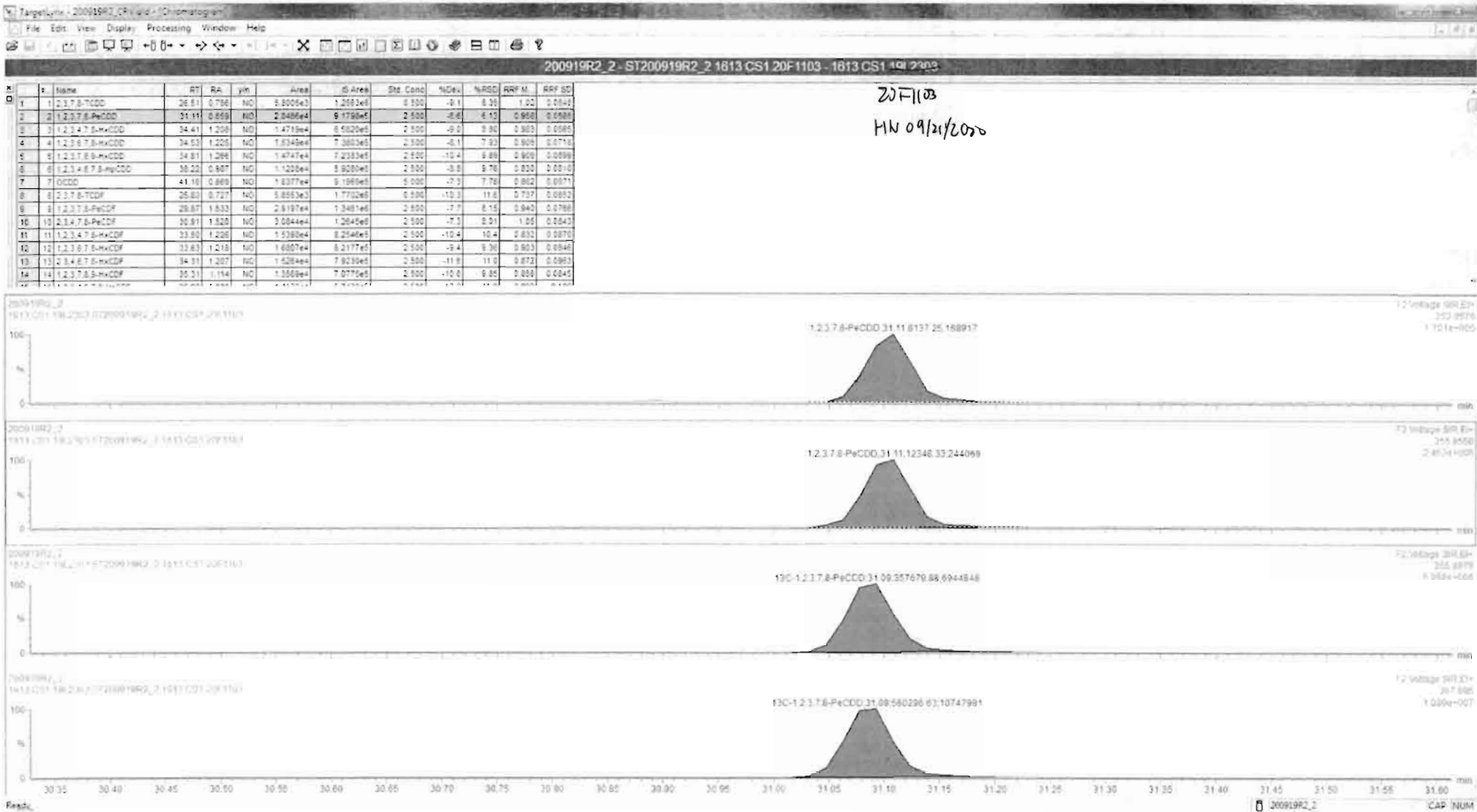
200919R2\_2



200919R2\_2







Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

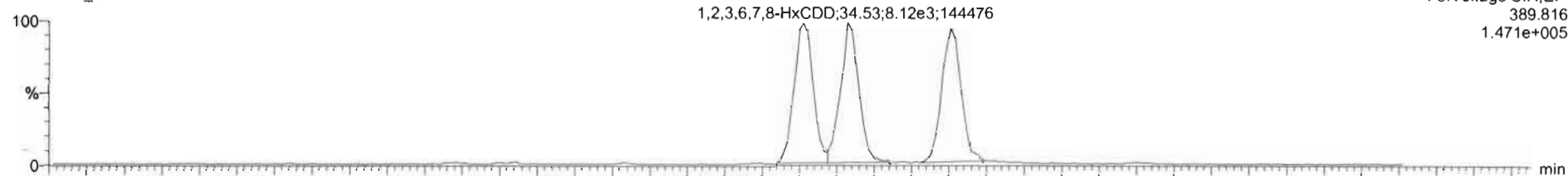
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_2, Date: 19-Sep-2020, Time: 14:26:28, ID: ST200919R2\_2 1613 CS1 20F1103, Description: 1613 CS1 ~~40L2303~~

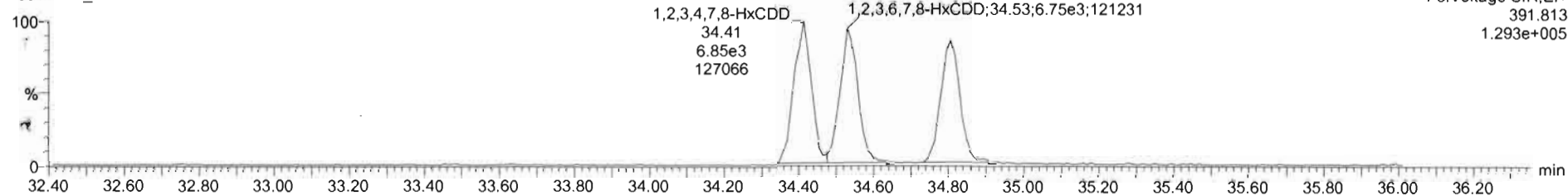
20F1103  
AN 09/21/2020

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

200919R2\_2

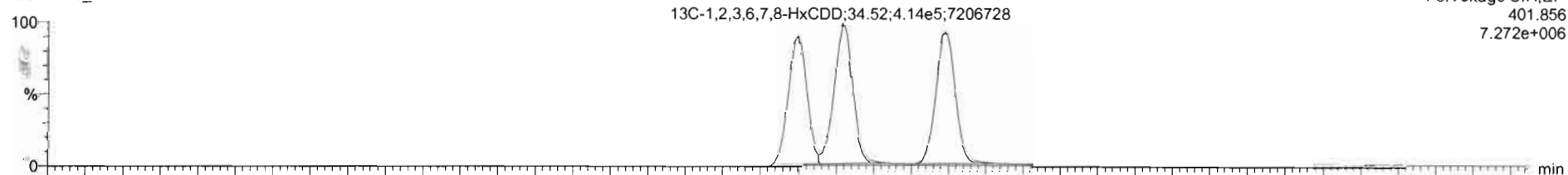


200919R2\_2

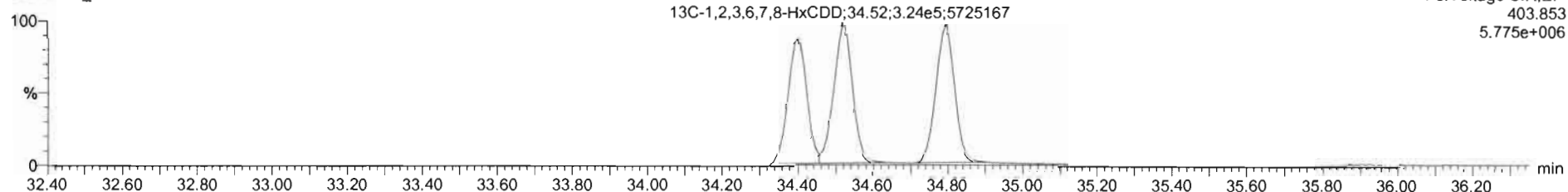


13C-1,2,3,4,7,8-HxCDD

200919R2\_2

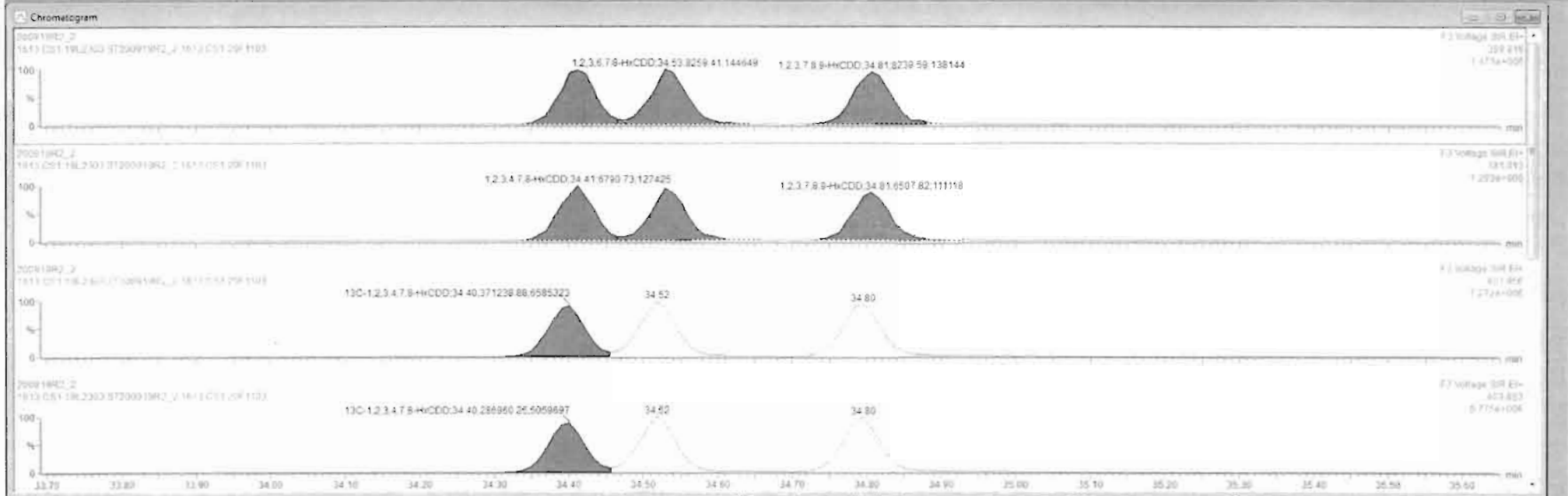


200919R2\_2



#	Name	RT	RA	Yin	Area	IS Area	Std. Conc.	%Dev.	%RSD	RRF II	RRF SD
41	41 Total Hexa-Dioxins				0.0000e0	2.500	8.00	0.888	0.0718		
42	42 Total Hepta-Dioxins				5.9200e4	2.500	9.98	0.852	0.0020		
43	43 Total Tetra-Furans				1.7700e0	0.500	11.3	0.730	0.0032		
44	44 1st Func. Penta-Furans				0.0000e0	2.500	0.38	0.939	0.0758		
45	45 Total Penta-Furans				0.0000e0	2.500	0.96	0.939	0.0758		
46	46 Total Hexa-Furans				0.0000e0	2.500	10.0	0.870	0.0930		
47	47 Total Hepta-Furans				0.0000e0	2.500	11.6	0.891	0.103		
48	48 PFK1					1.000					
49	49 PFK2					1.000					
50	50 PFK3					1.000					
51	51 PFK4					1.000					
52	52 PFK5					1.000					
53	53 DPF1					1.000					

20 F1103  
HN 09/21/2000



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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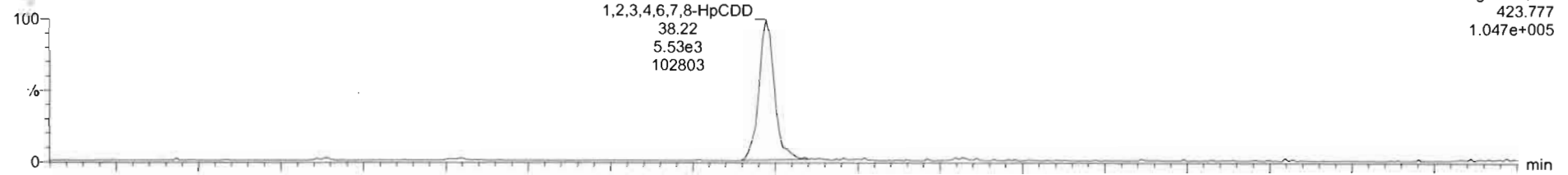
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

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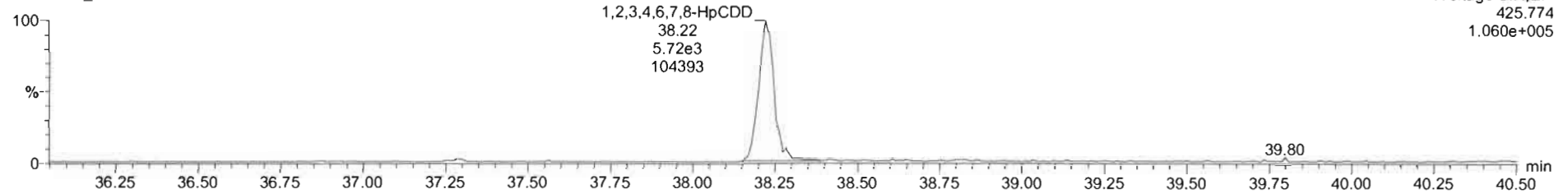
20F1103  
FIN 09/21/2020

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

200919R2\_2

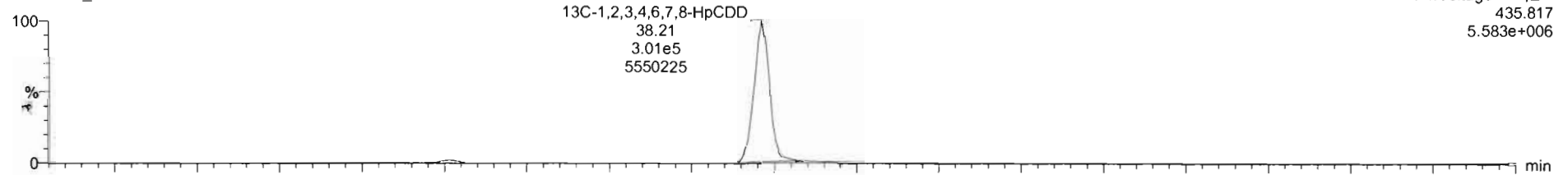


200919R2\_2

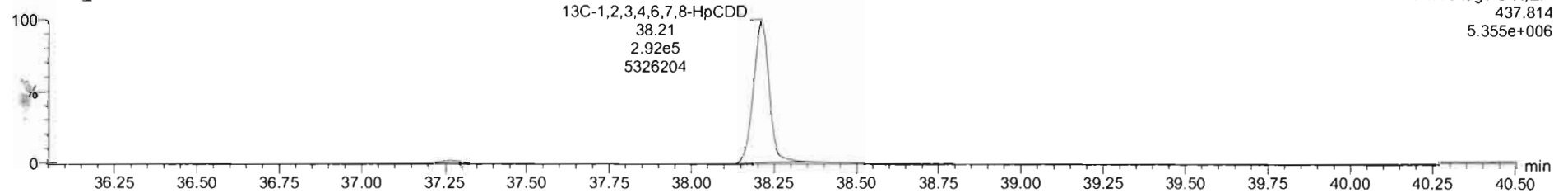


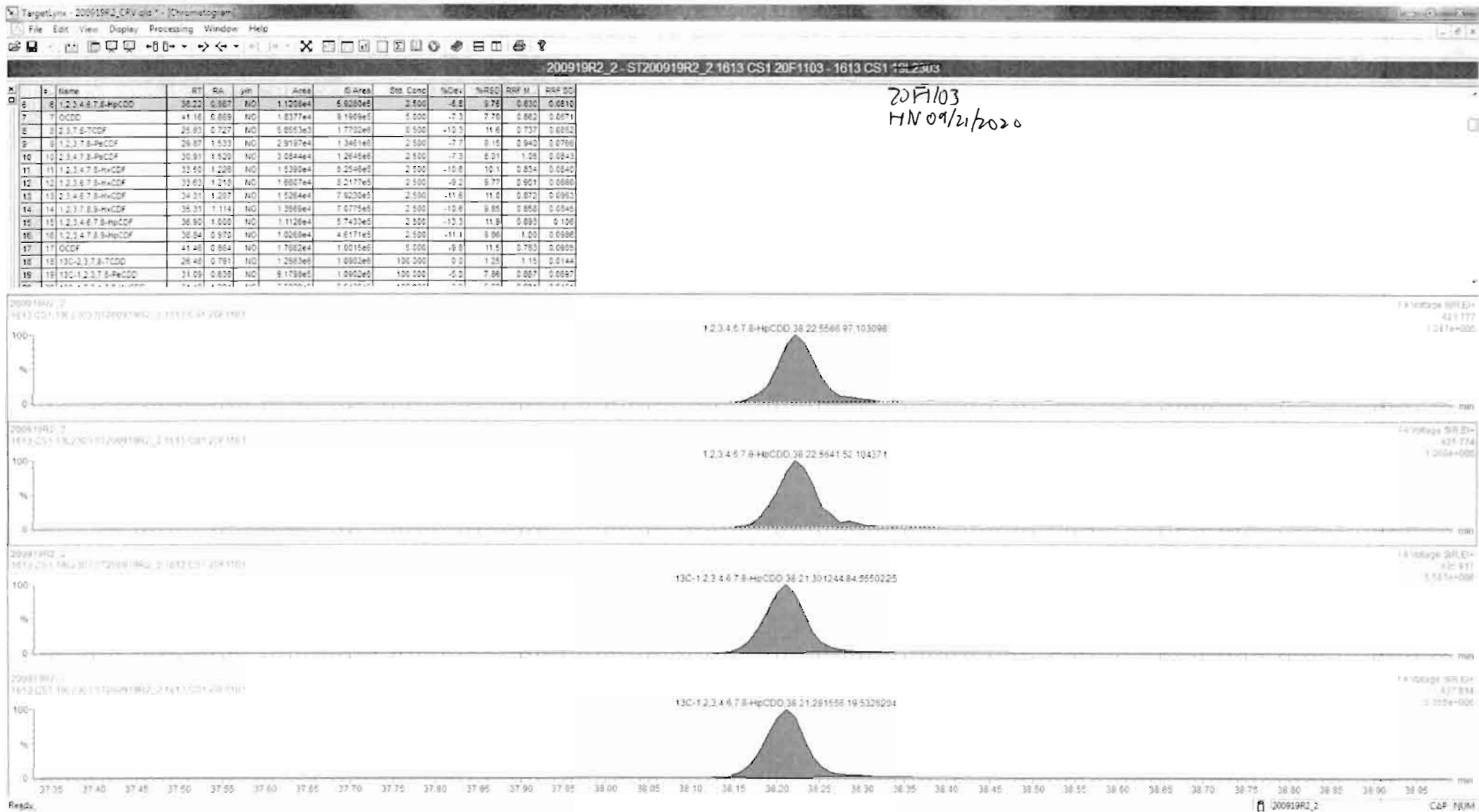
13C-1,2,3,4,6,7,8-HpCDD

200919R2\_2



200919R2\_2





Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

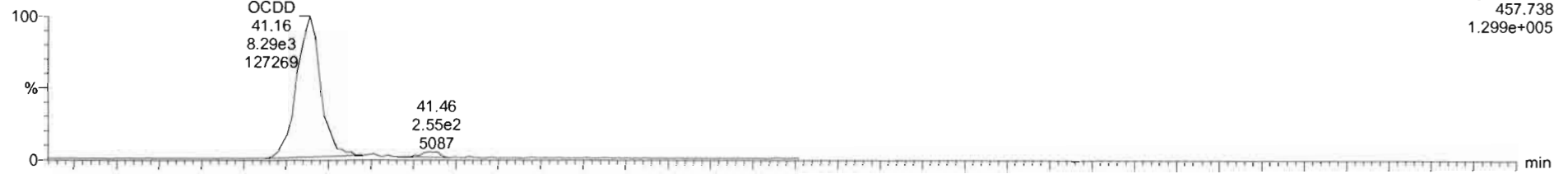
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_2, Date: 19-Sep-2020, Time: 14:26:28, ID: ST200919R2\_2 1613 CS1 20F1103, Description: 1613 CS1 ~~16L2303~~

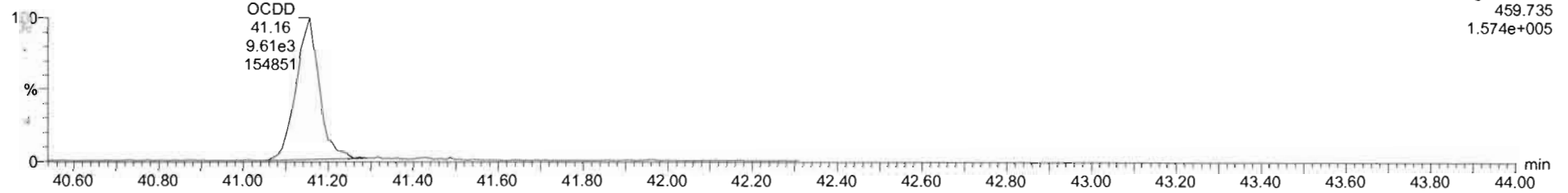
20F1103  
FIN 09/21/2020

**OCDD**

200919R2\_2

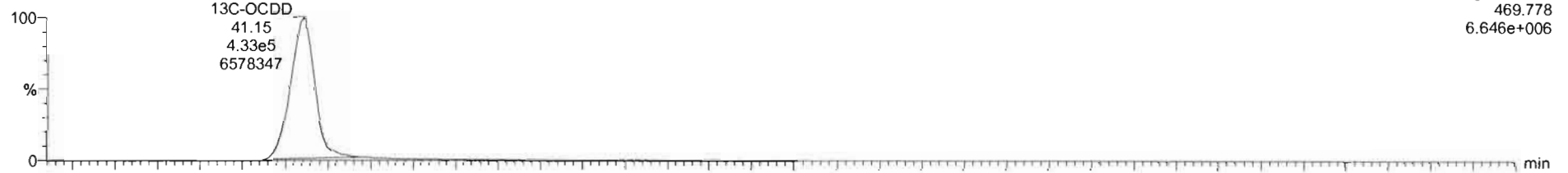


200919R2\_2

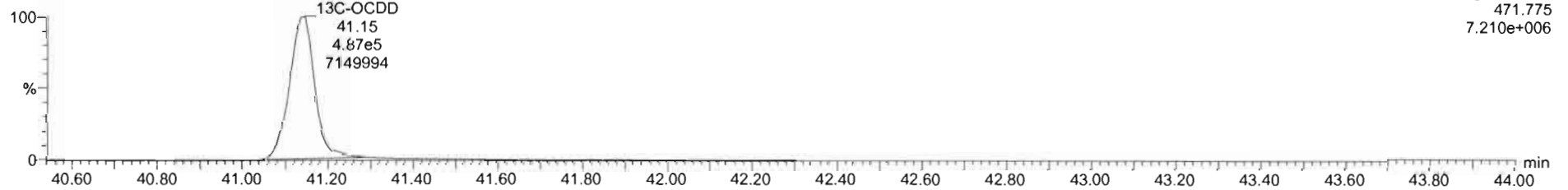


**13C-OCDD**

200919R2\_2



200919R2\_2



#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc.	%Dev.	%RSD	RRF M	RRF SD
3	1,2,3,4,7,8-HxCDD	34.41	1.219	NO	1.5069e4	6.9820e3	2.500	-6.1	9.10	0.997	0.0016
4	1,2,3,6,7,8-HxCDD	34.53	3.199	NO	1.5147e4	7.3803e3	2.500	-6.1	6.90	0.894	0.0016
5	1,2,3,7,8-HxCDD	34.81	1.268	NO	1.4747e4	7.2385e3	2.500	-10.4	9.99	0.909	0.0099
6	1,2,3,4,6,7,8-HxCDD	36.22	0.907	NO	1.1209e4	5.9205e3	2.500	-8.8	9.70	0.937	0.0010
7	OCDD	41.16	0.869	NO	1.8377e4	9.1999e3	5.000	-7.3	7.72	0.892	0.0071
8	1,2,3,7,8-TCDF	25.83	0.727	NO	5.6553e3	1.7702e3	0.500	-10.3	11.6	0.737	0.0032
9	1,2,3,7,8-PeCDF	29.87	1.523	NO	2.9197e4	1.3461e4	2.500	-7.7	8.15	0.940	0.0760
10	1,2,3,4,7,8-PeCDF	30.91	1.520	NO	3.0944e4	1.2648e4	2.500	-7.3	8.31	1.35	0.0643
11	1,2,3,4,7,8-HxCDF	33.50	1.226	NO	1.8380e4	8.2548e3	2.500	-10.6	10.1	0.834	0.0640
12	1,2,3,6,7,8-HxCDF	33.63	1.218	NO	1.6007e4	8.2177e3	2.500	-9.2	9.77	0.901	0.0880
13	1,2,3,4,6,7,8-HxCDF	34.31	1.207	NO	1.5269e4	7.9230e3	2.500	-11.8	11.0	0.872	0.0903
14	1,2,3,7,8-HxCDF	35.31	1.114	NO	1.3589e4	7.0775e3	2.500	-10.8	9.85	0.858	0.0645
15	1,2,3,4,6,7,8-PeCDF	36.90	1.020	NO	1.1126e4	5.7493e3	2.500	-13.3	11.8	0.893	0.138
16	1,2,3,4,7,8-HxCDF	38.84	0.970	NO	1.0209e4	4.8171e3	2.500	-11.1	9.98	1.00	0.0906

29F103  
HN 09/21/2000



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

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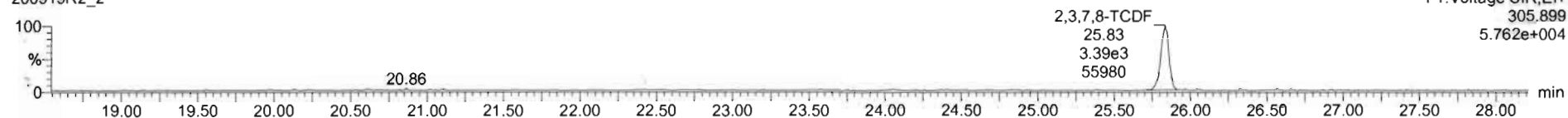
20F1103  
HN 09/21/2020

2,3,7,8-TCDF

200919R2\_2

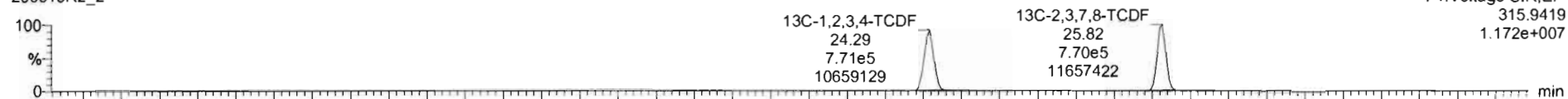


200919R2\_2

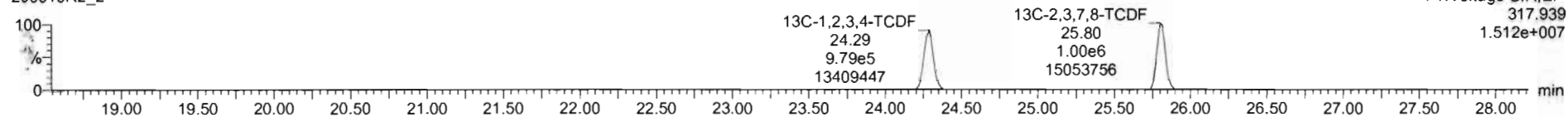


13C-2,3,7,8-TCDF

200919R2\_2

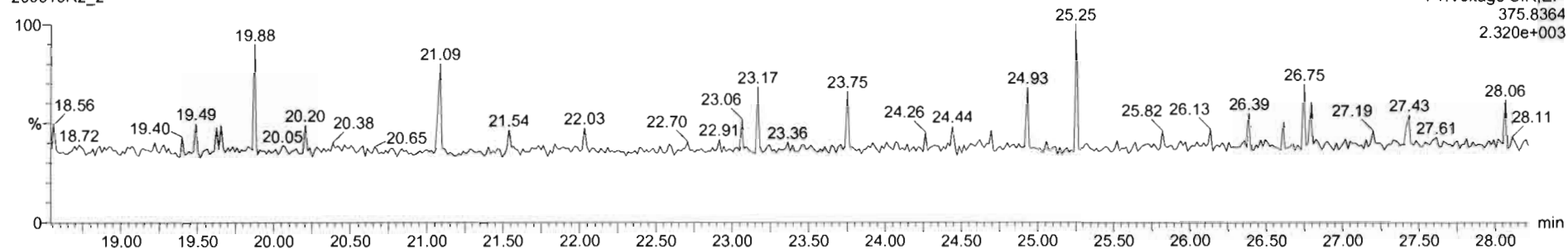


200919R2\_2

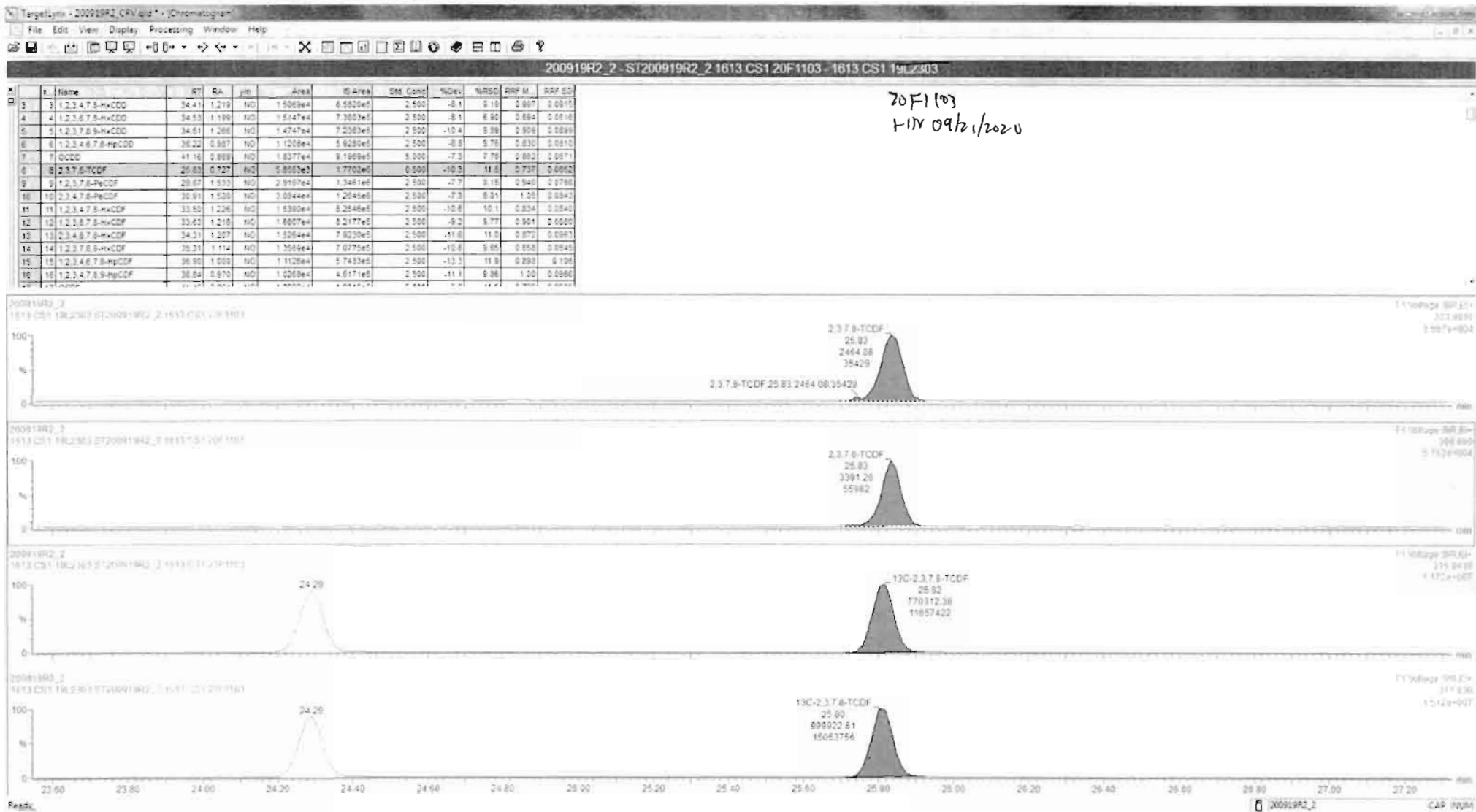


DPE1

200919R2\_2







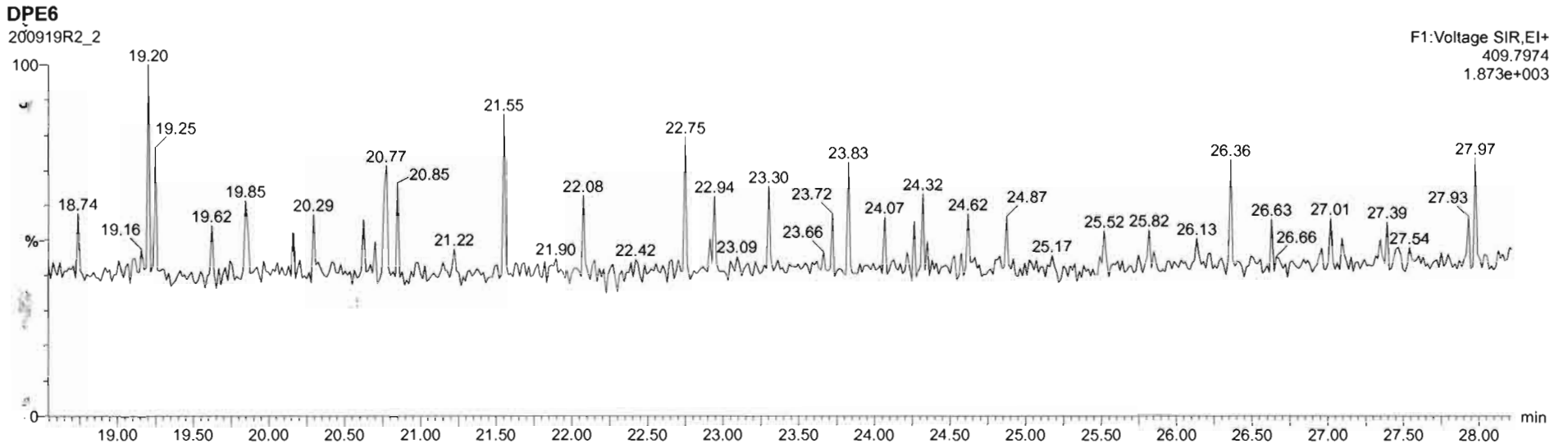
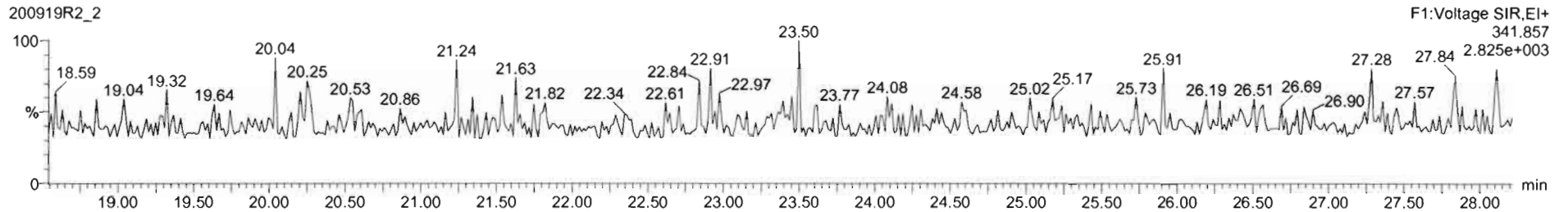
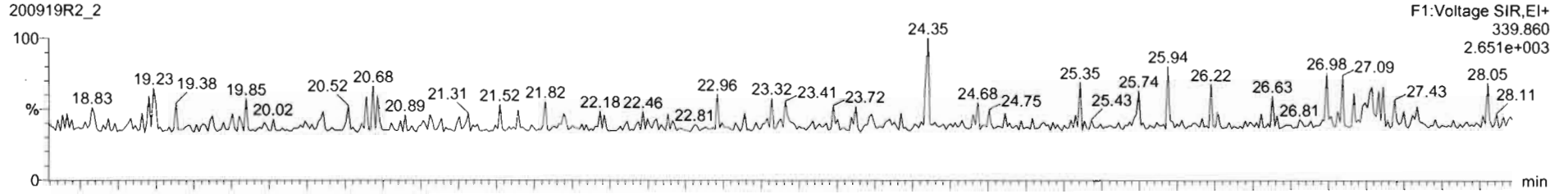
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Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_2, Date: 19-Sep-2020, Time: 14:26:28, ID: ST200919R2\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103  
*20F1103*  
*HN 09/21/2020*

**1st Func. Penta-Furans**



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

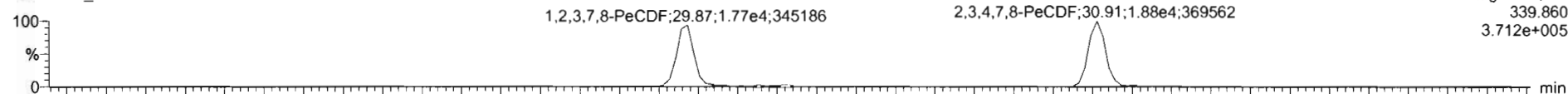
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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

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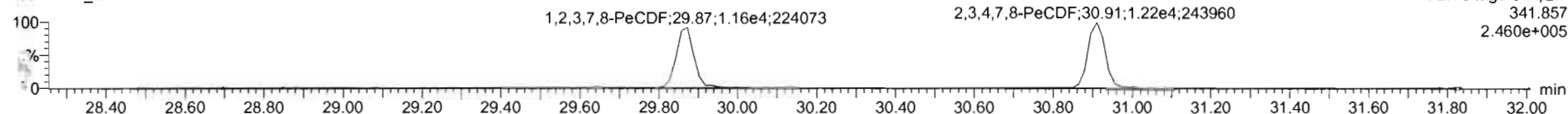
20F1103  
HW 09/21/2020

1,2,3,7,8-PeCDF

200919R2\_2

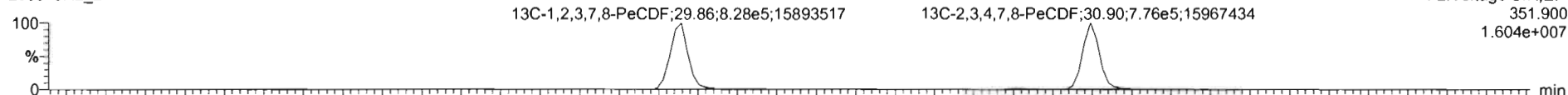


200919R2\_2

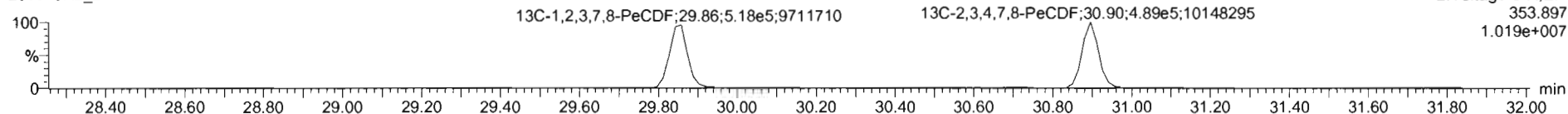


13C-1,2,3,7,8-PeCDF

200919R2\_2

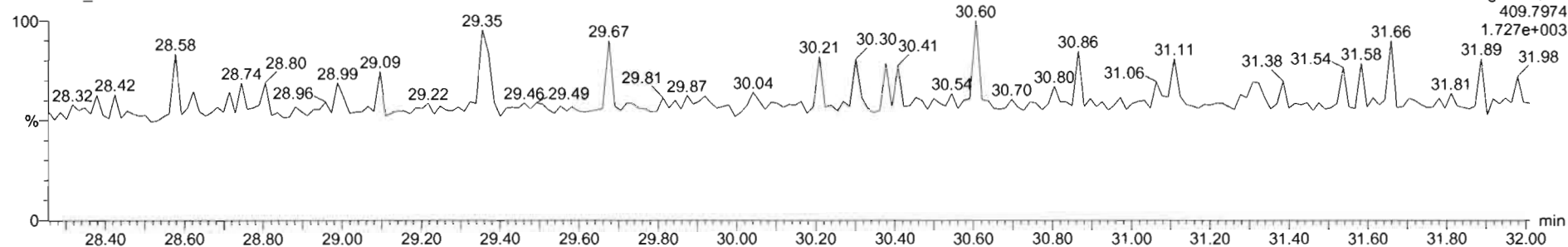


200919R2\_2



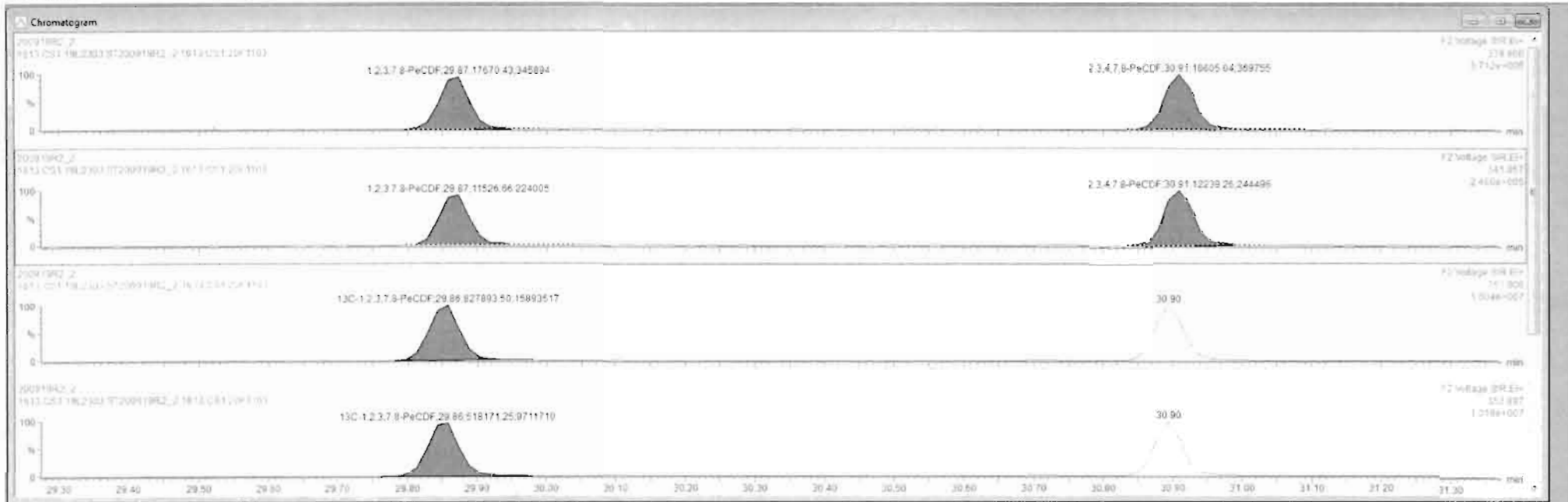
DPE2

200919R2\_2



#	Name	RT	RA	Yin	Area	ID Area	Std Conc	%Dev	%RSD	RRP M	RRP SD
41	Total Hexa-Dioxins				0.0000e0	2.500	0.00	0.888	0.0710		
42	Total Hepta-Dioxins				5.9280e0	2.500	9.99	0.610	0.0020		
43	Total Tetra-Furans				1.7702e8	0.500	11.0	0.730	0.0010		
44	1st Func. Penta-Furans				0.0000e0	2.500	0.38	0.539	0.0750		
45	Total Penta-Furans				0.0000e0	2.500	0.00	0.909	0.0756		
46	Total Hexa-Furans				0.0000e0	2.500	10.8	0.870	0.0838		
47	Total Hepta-Furans				0.0000e0	2.500	11.8	0.891	0.103		
48	PFK1				1.000						
49	PFK2				1.000						
50	PFK3				1.000						
51	PFK4				1.000						
52	PFK5				1.000						
53	PFK6				1.000						

20F1103  
HM09/21/2020



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

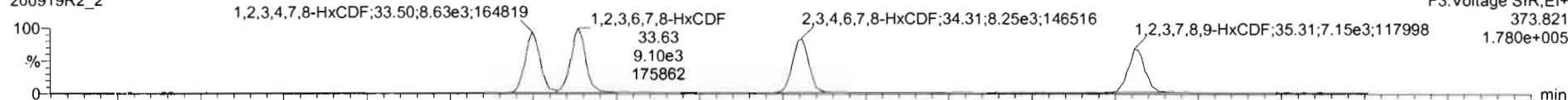
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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_2, Date: 19-Sep-2020, Time: 14:26:28, ID: ST200919R2\_2 1613 CS1 20F1103, Description: 1613 CS1 19L2303

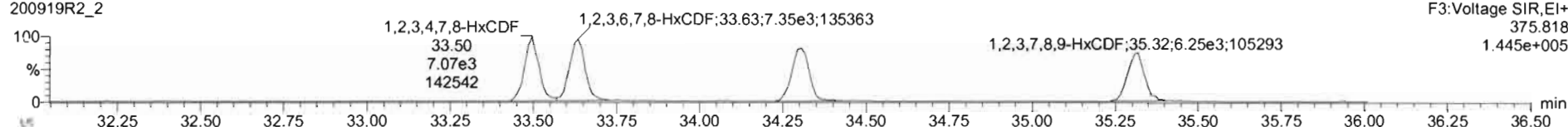
20F1103  
17N09/21/2020

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

200919R2\_2

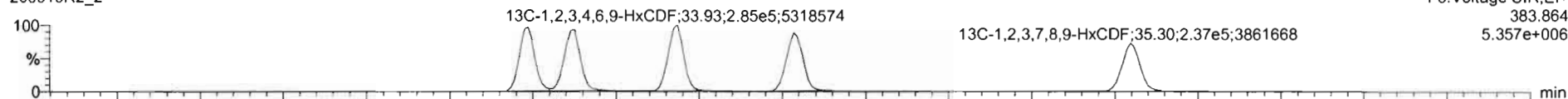


200919R2\_2

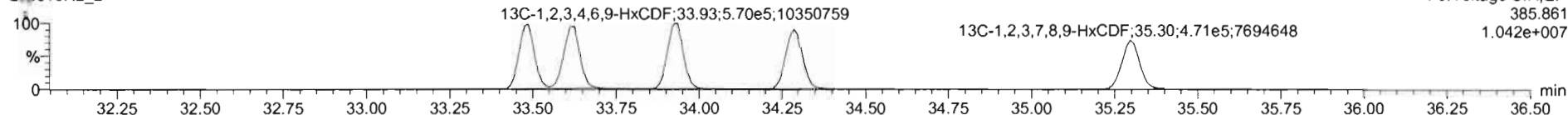


13C-1,2,3,4,7,8-HxCDF

200919R2\_2

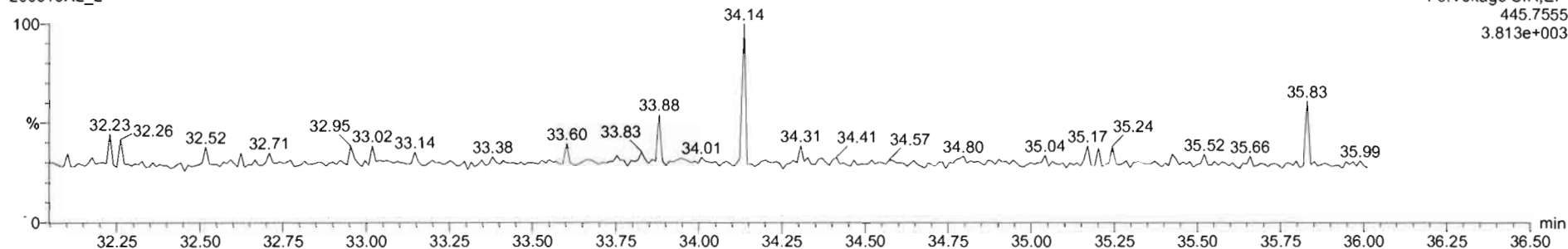


200919R2\_2



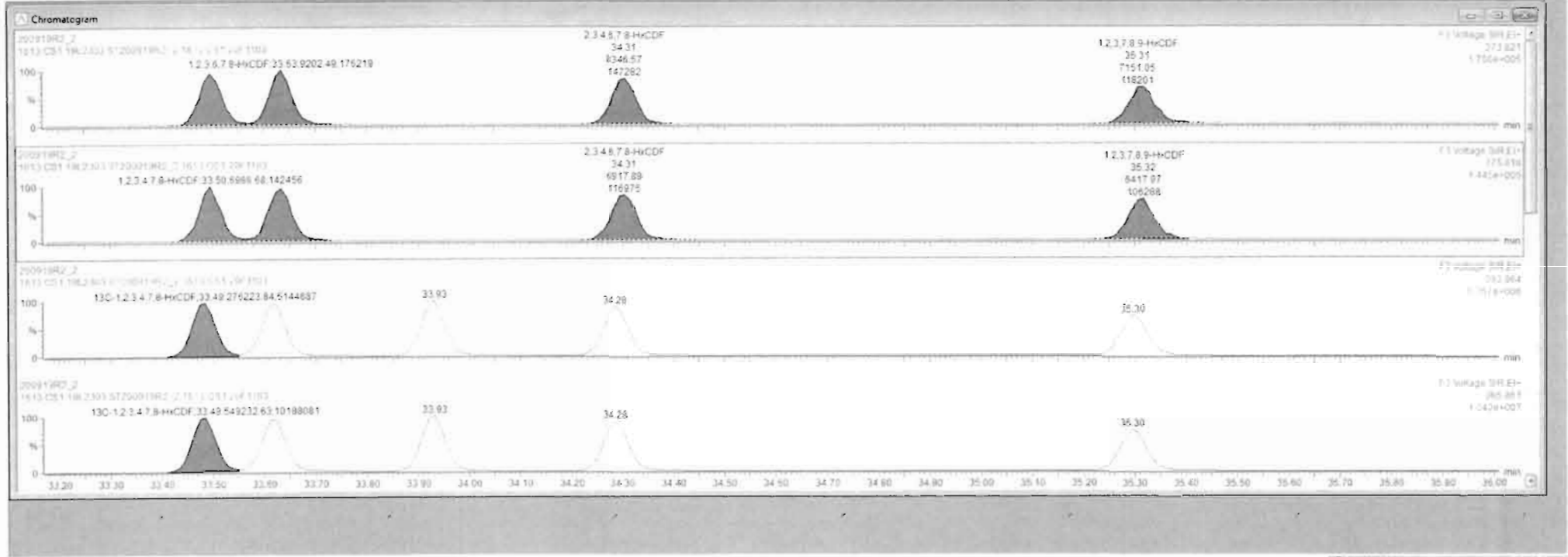
DPE3

200919R2\_2



#	Name	RT	RA	Yn	Area	IS Area	Std. Conc	%Dev	%RSD	RPF M	RPF SD
41	Total Hexa-Dioxins				0.0000e0	2.500		0.00	0.880	0.0716	
42	Total Hepta-Dioxins				5.9289e0	2.500		5.98	0.652	0.0828	
43	Total Tetra-Furans				1.7702e0	0.500		11.3	0.736	0.0832	
44	1st Func. Penta-Furans				0.0000e0	2.500		0.00	0.939	0.0758	
45	Total Penta-Furans				0.0000e0	2.500		0.00	0.920	0.0756	
46	Total Hexa-Furans				0.0000e0	2.500		10.8	0.870	0.0896	
47	Total Hepta-Furans				0.0000e0	2.500		11.6	0.951	0.103	
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	PFK6					1.000					

20F1103  
HW 09/21/2020



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

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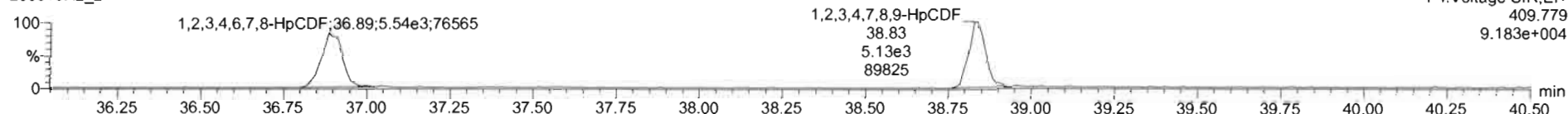
20F1103  
19/09/2020

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

200919R2\_2

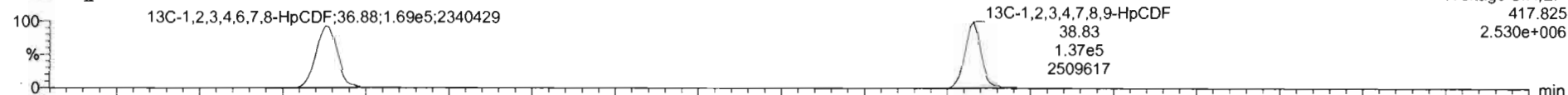


200919R2\_2

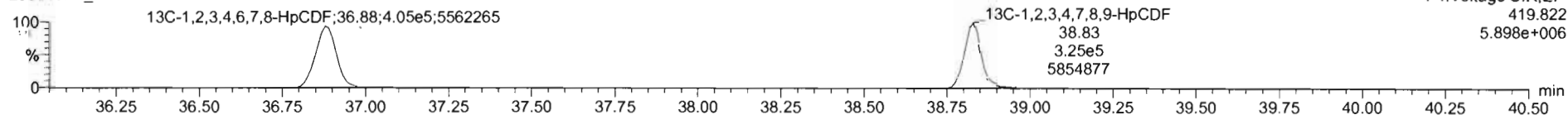


13C-1,2,3,4,6,7,8-HpCDF

200919R2\_2

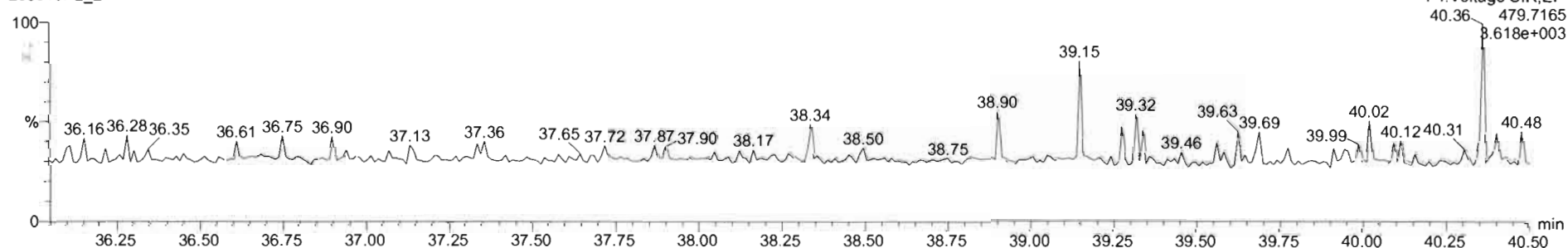


200919R2\_2



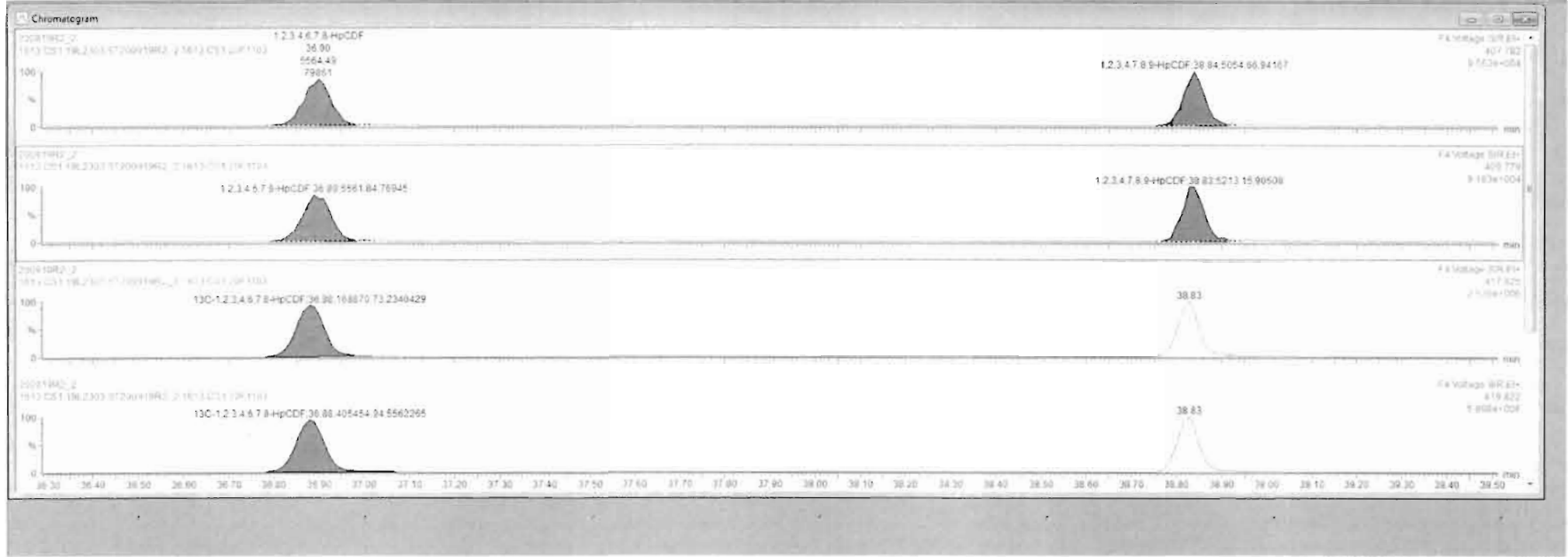
DPE4

200919R2\_2



ID	Name	RT	RA	yrs	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M	RRF SD
41	Total Hexa-Dioxins				0.0000e0	2.500		0.00	0.000	0.0712	
42	Total Hepta-Dioxins				1.9200e0	2.500		9.99	0.000	0.0000	
43	Total Tetra-Furans				1.7700e0	0.500		11.3	0.700	0.0000	
44	1st Func. Penta-Furans				0.0000e0	2.500		0.00	0.000	0.0756	
45	Total Penta-Furans				0.0000e0	2.500		0.00	0.000	0.0756	
46	Total Hexa-Furans				0.0000e0	2.500		10.0	0.070	0.0930	
47	Total Hepta-Furans				0.0000e0	2.500		11.0	0.001	0.100	
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	PFK6					1.000					

20F1103  
 HN 09/21/2020





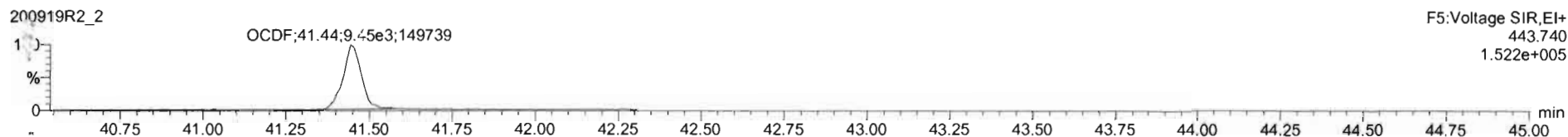
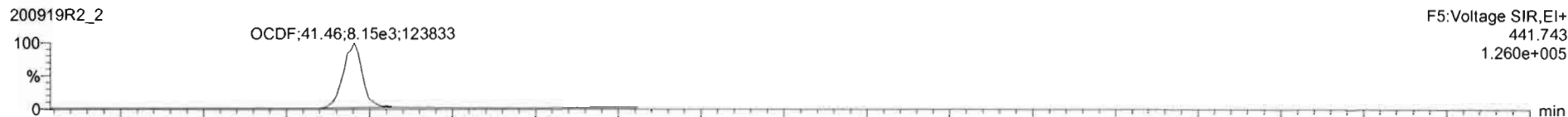
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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

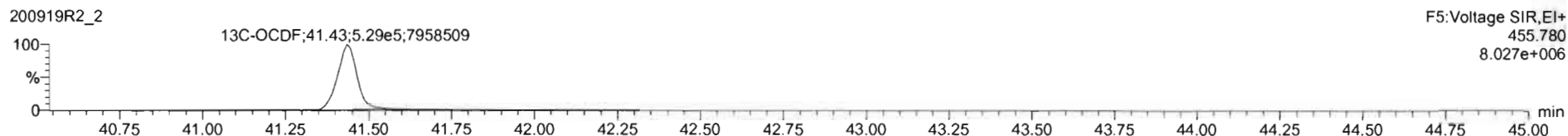
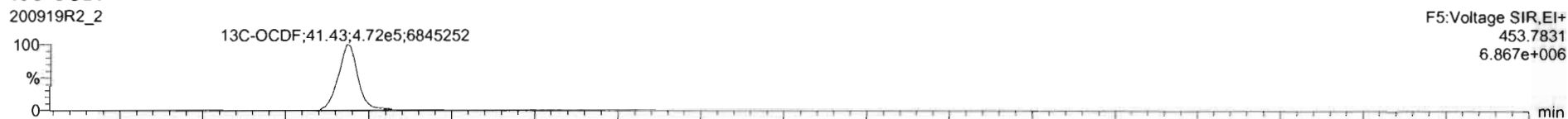
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20F1103  
FIN 09/21/2020

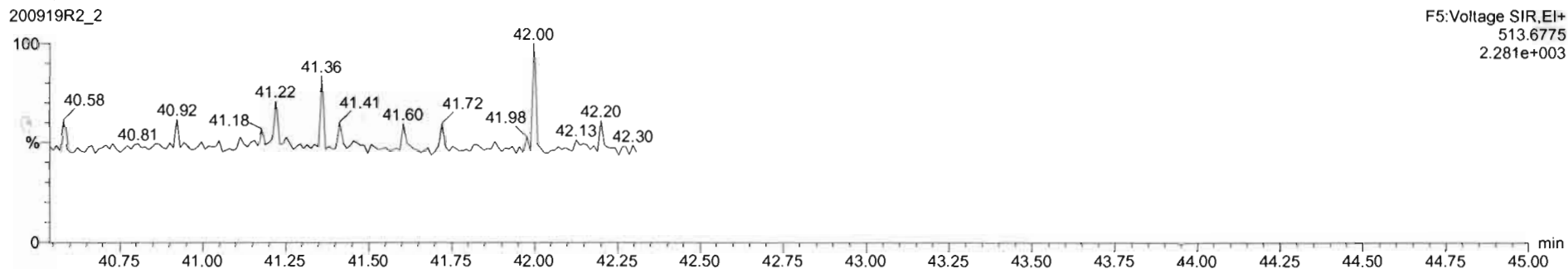
OCDF



13C-OCDF



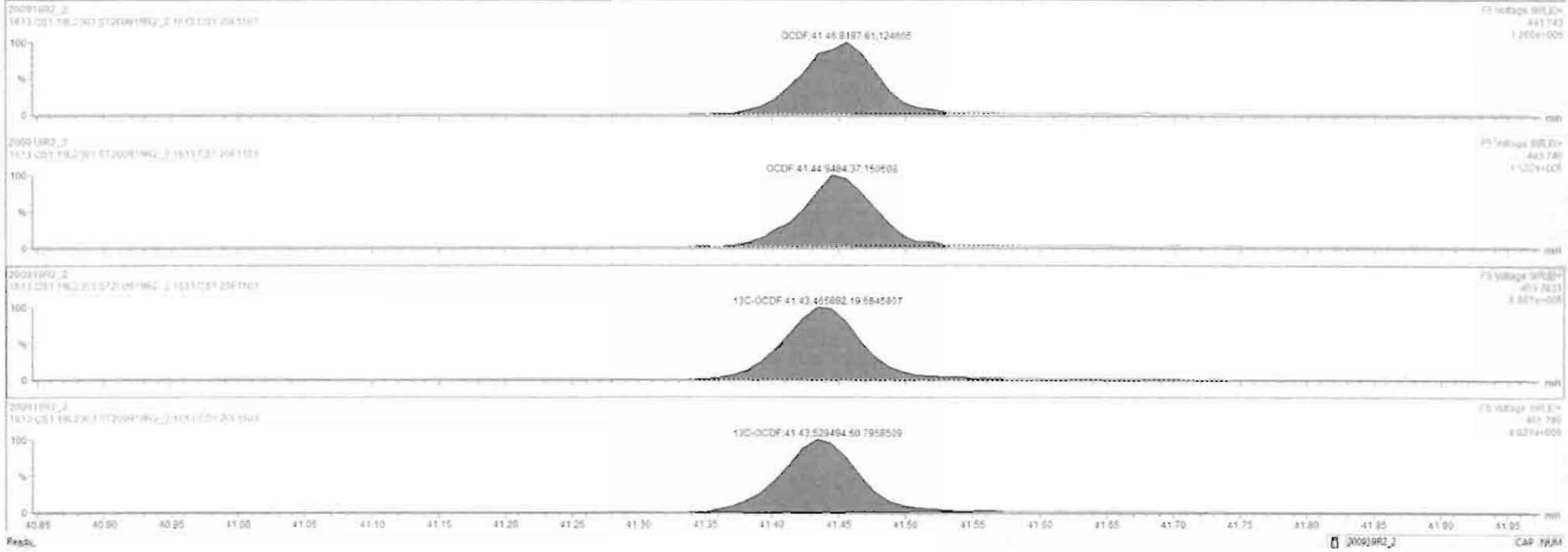
DPE5



200919R2\_2 - ST200919R2\_2 1613 CS1 20F1103 - 1613 CS1 19L2303

#	Name	RT	Su	Yrs	Area	IS Area	Std. Conc.	%Dev	NBSD	RPF M	RPF SD
3	1,2,3,4,7,8-HxCDD	34.41	1.218	NO	1.5089e4	6.6820e5	2.500	-8.1	9.19	0.997	0.0014
4	1,2,3,6,7,8-HxCDD	34.93	1.169	NO	1.5147e4	7.9035e5	2.500	-8.1	8.90	0.994	0.0016
5	1,2,3,7,8-HxCDD	34.81	1.260	NO	1.4747e4	7.2382e5	2.500	-10.4	9.89	0.909	0.0039
6	1,2,3,4,6,7,8-HpCDD	36.22	0.987	NO	1.1209e4	5.6209e5	2.500	-8.0	9.76	0.830	0.0010
7	OCDF	41.16	0.899	NO	1.8377e4	9.1999e5	5.000	-7.0	7.79	0.862	0.0071
8	2,3,7,8-TCDF	26.83	0.727	NO	5.8003e3	1.7702e5	0.500	-10.0	11.8	0.737	0.0032
9	1,2,3,7,8-PeCDF	26.87	1.631	NO	2.9197e4	1.3461e5	2.500	-7.7	8.10	0.940	0.0099
10	2,3,4,7,8-PeCDF	30.91	1.520	NO	3.9844e4	1.2645e5	2.500	-7.0	8.01	1.05	0.0043
11	1,2,3,4,7,8-HxCDF	33.60	1.223	NO	1.5530e4	8.2649e5	2.500	-8.9	9.88	0.839	0.0026
12	1,2,3,6,7,8-HxCDF	33.63	1.200	NO	1.6884e4	8.2177e5	2.500	-9.0	9.91	0.900	0.0032
13	2,3,4,6,7,8-HxCDF	34.31	1.007	NO	1.9264e4	7.9292e5	2.500	-11.8	11.0	0.872	0.0033
14	1,2,3,7,8,9-HxCDF	36.31	1.114	NO	1.3089e4	7.0775e5	2.500	-10.8	9.05	0.803	0.0041
15	1,2,3,4,6,7,8-HpCDF	36.90	1.000	NO	1.1129e4	5.7433e5	2.500	-10.0	10.9	0.893	0.106
16	1,2,3,4,7,8,9-HpCDF	38.84	0.970	NO	1.0209e4	4.6171e5	2.500	-11.1	9.98	1.00	0.0096

20F1103  
 HM 09/21/2020



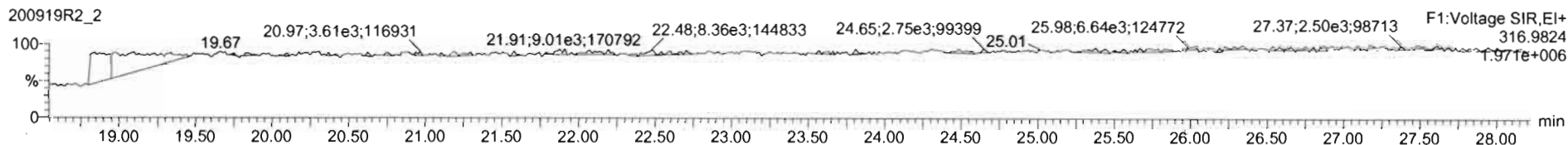
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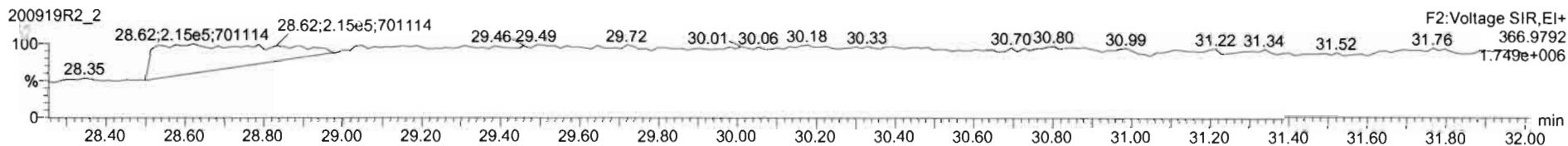
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20F1103  
HN 09/21/2020

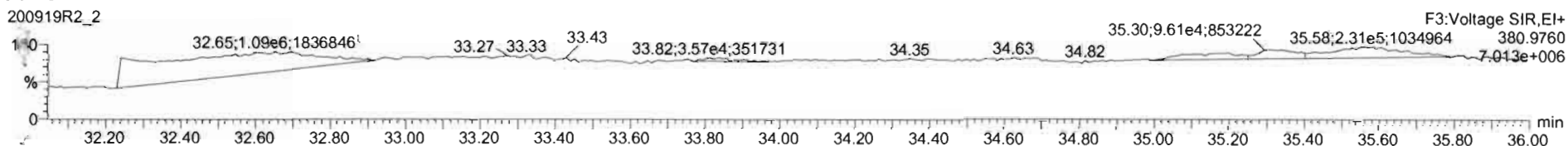
PFK1



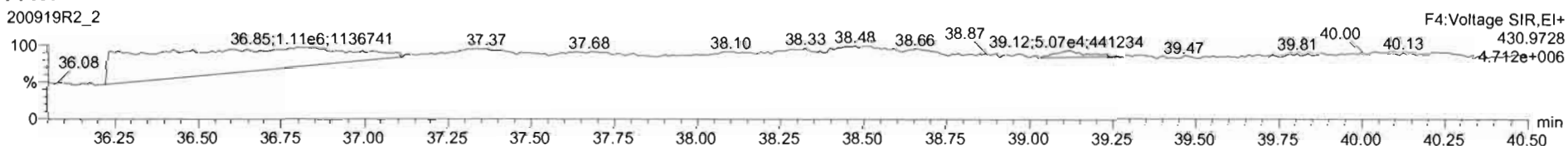
PFK2



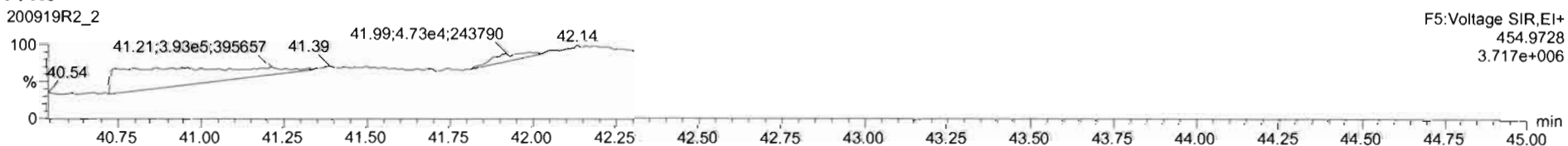
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

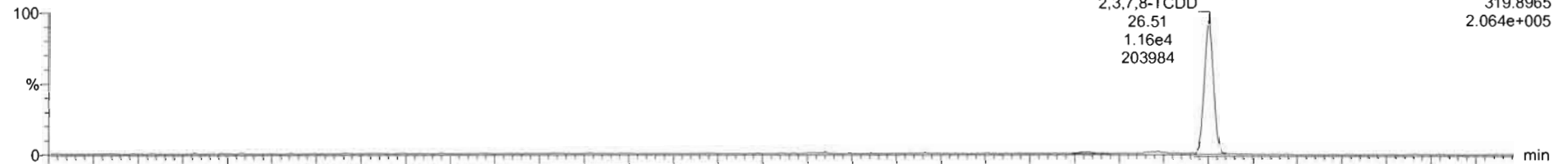
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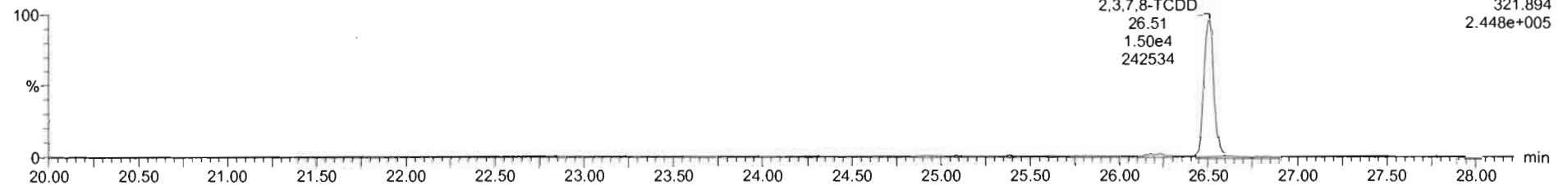
20F1104  
HN 09/21/2020

2,3,7,8-TCDD

200919R2\_3

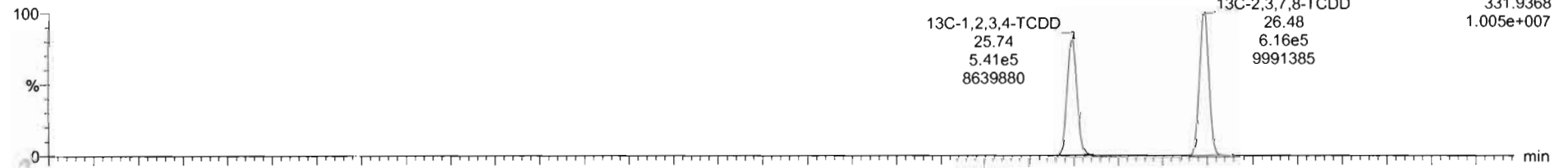


200919R2\_3

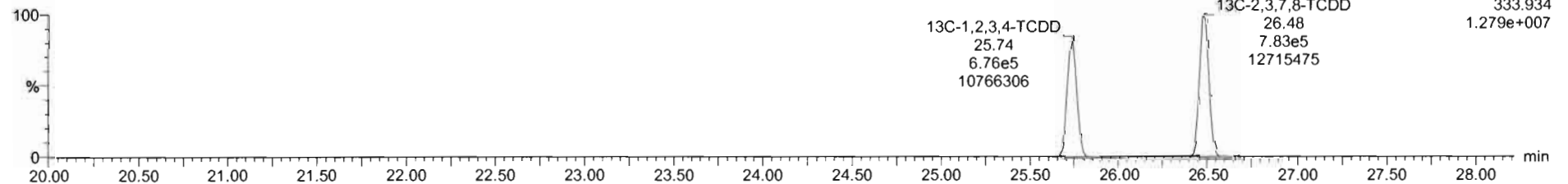


13C-2,3,7,8-TCDD

200919R2\_3



200919R2\_3



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

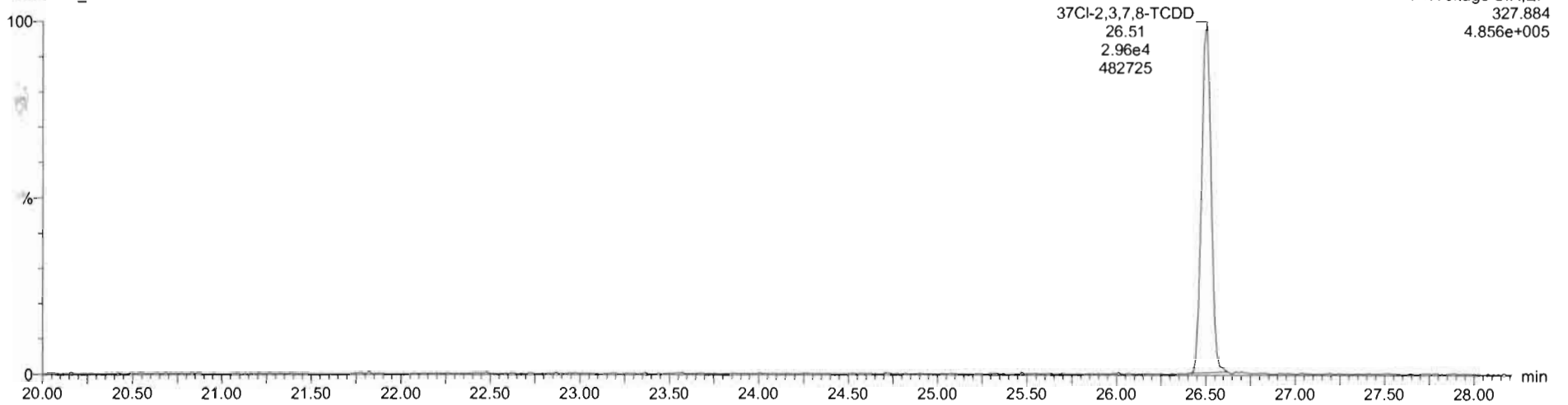
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 ~~19L2304~~

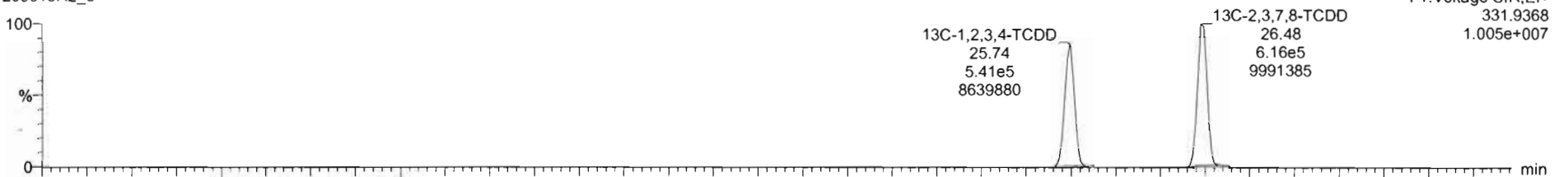
**37Cl-2,3,7,8-TCDD**

200919R2\_3

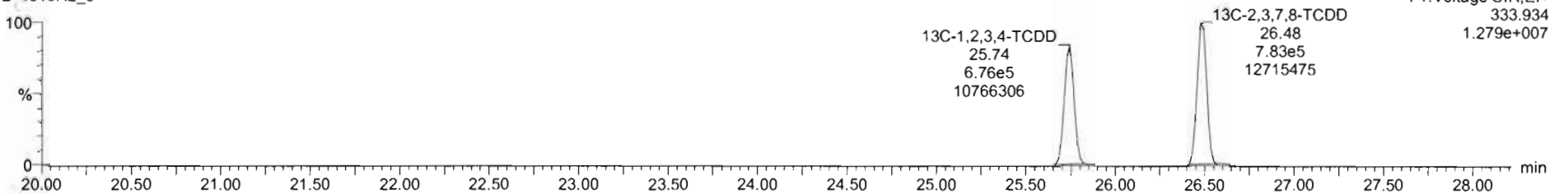


**13C-1,2,3,4-TCDD**

200919R2\_3



200919R2\_3



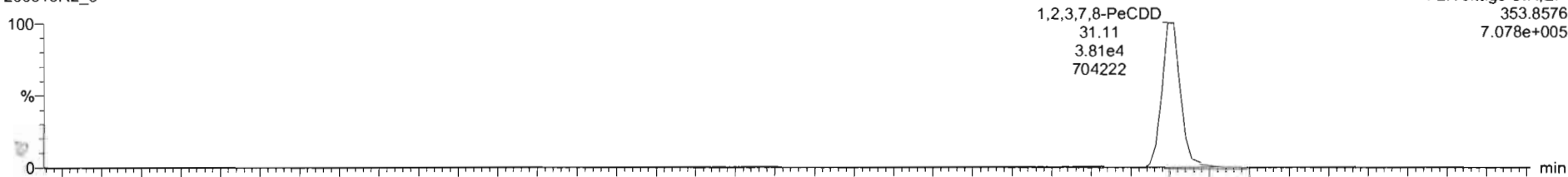
Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

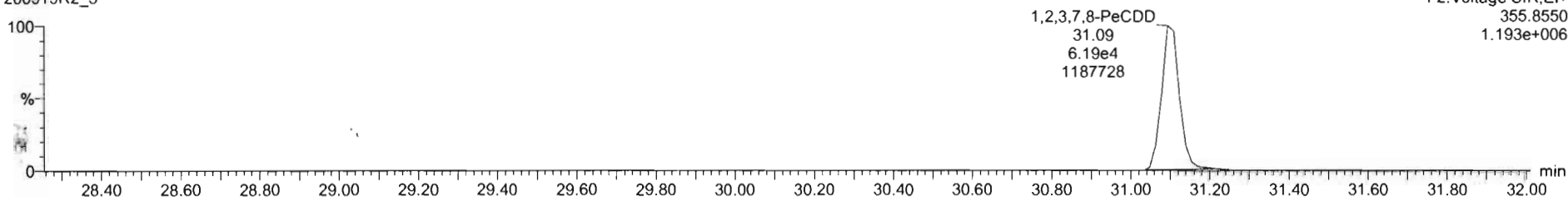
Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 ~~10L2304~~

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

200919R2\_3

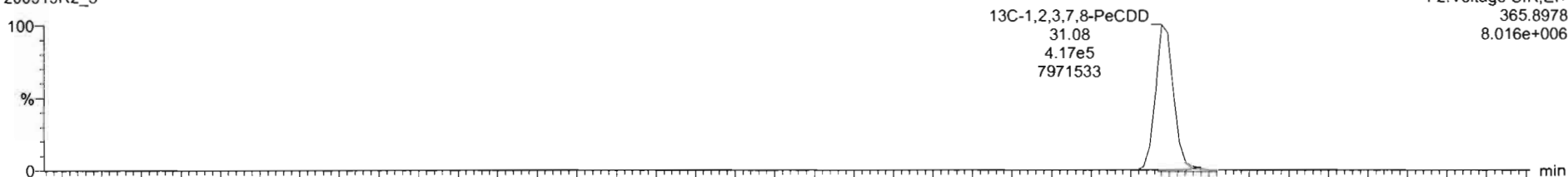


200919R2\_3

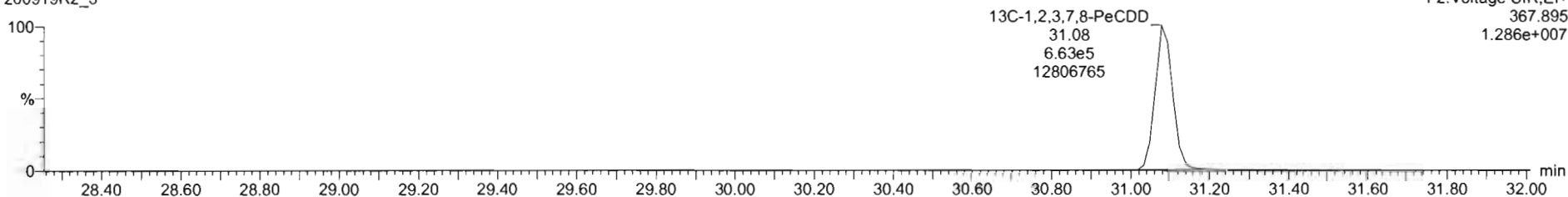


**<sup>13</sup>C-1,2,3,7,8-PeCDD**

200919R2\_3



200919R2\_3



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

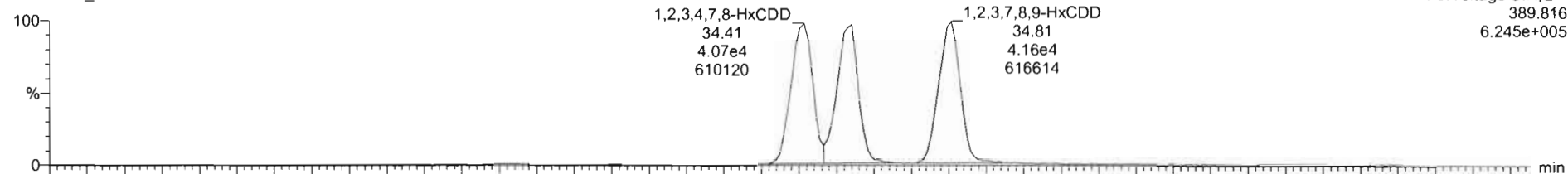
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

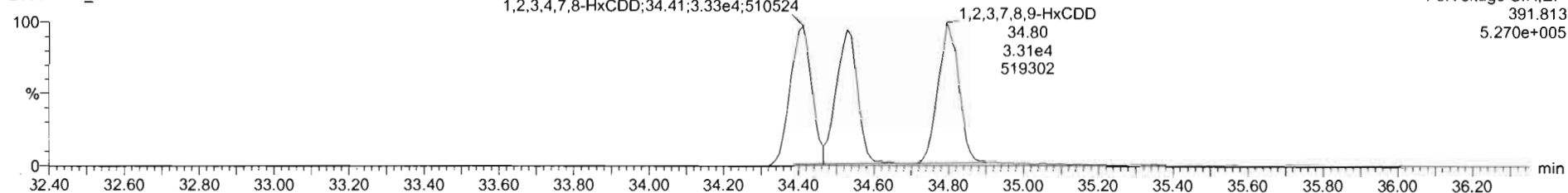
Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 ~~49L2304~~

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

200919R2\_3

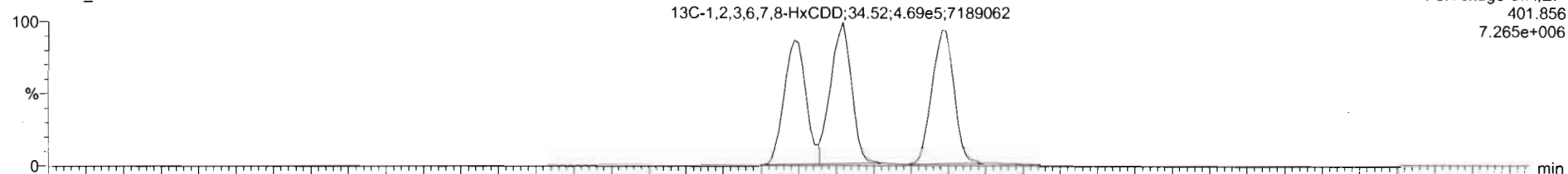


200919R2\_3

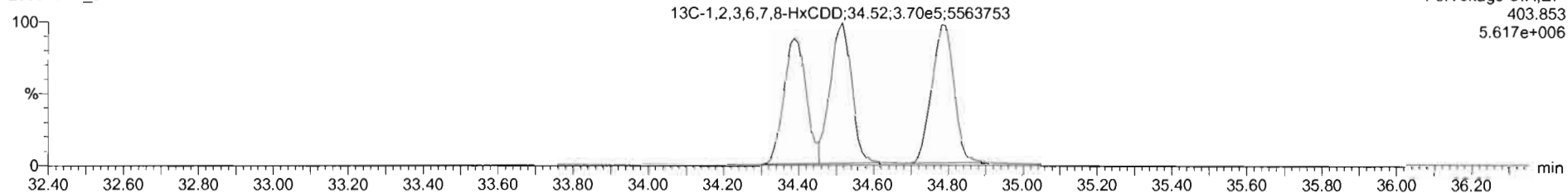


13C-1,2,3,4,7,8-HxCDD

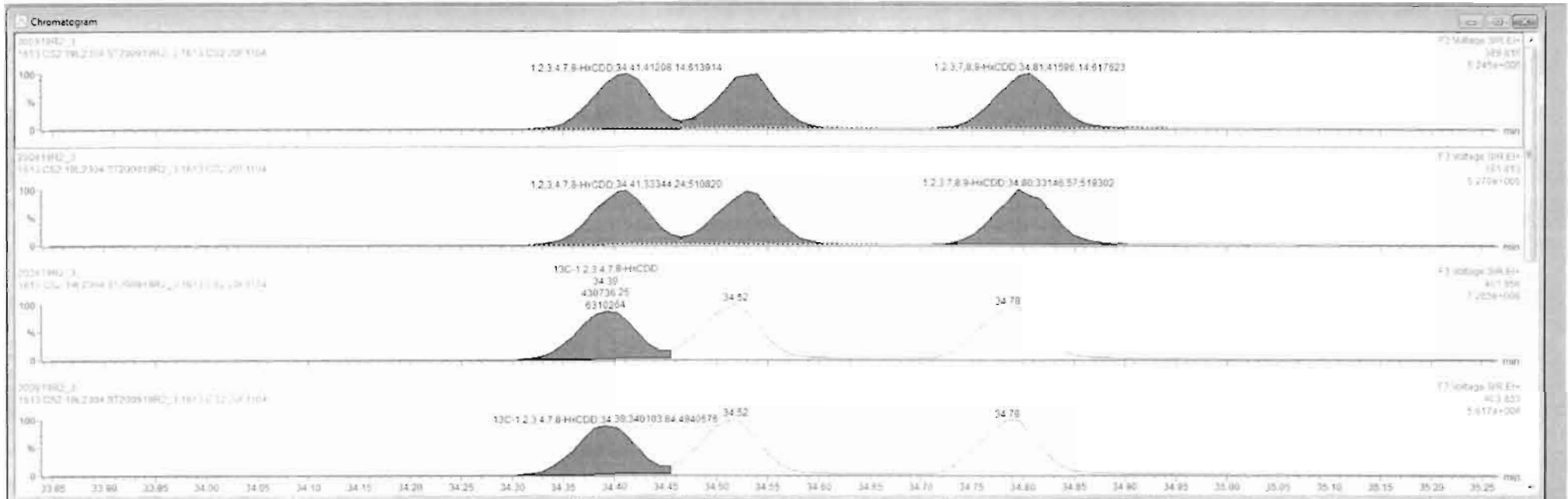
200919R2\_3



200919R2\_3



#	Name	RT	RA	Y/N	Area	Q Area	Std. Cond.	%Dev	%RSD	RRF M	RRF SD
36	13C-1,2,3,4-TCDD	26.74	0.851	NO	1.2159e8	1.2159e8	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	24.31	0.107	NO	1.6282e8	1.6282e8	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,6,8-HxCDF	33.92	0.499	NO	9.8827e5	9.8827e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.3888e8	1.3888e8	2.000		0.38	1.00	0.0040
40	Total Penta-Dioxins				1.8800e8	1.8800e8	10.000		6.17	0.955	0.0536
41	Total Hexa-Dioxins				0.0000e0	0.0000e0	10.000		0.99	0.890	0.0716
42	Total Hepta-Dioxins				0.0044e5	0.0044e5	10.000		9.96	0.932	0.0820
43	Total Tetra-Furans				1.9632e8	1.9632e8	2.000		11.3	0.736	0.0812
44	1st Func. Penta-Furans				0.0000e0	0.0000e0	10.000		0.06	0.938	0.0758
45	Total Penta-Furans				0.0000e0	0.0000e0	10.000		0.06	0.938	0.0758
46	Total Hexa-Furans				0.0000e0	0.0000e0	10.000		10.8	0.870	0.0930
47	Total Hepta-Furans				0.0000e0	0.0000e0	10.000		11.6	0.891	0.103
48	Internal PK1						1.000				





Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

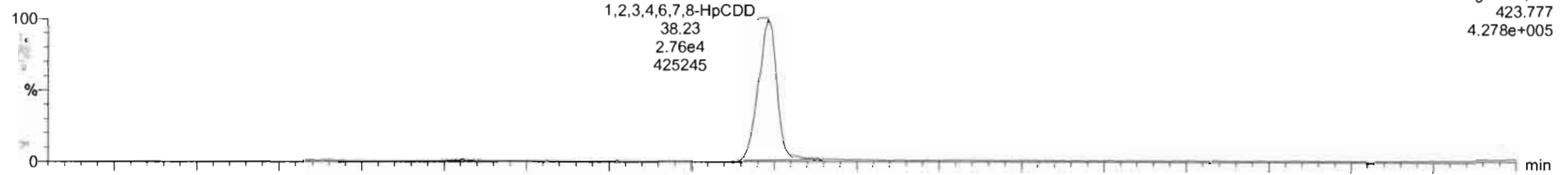
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

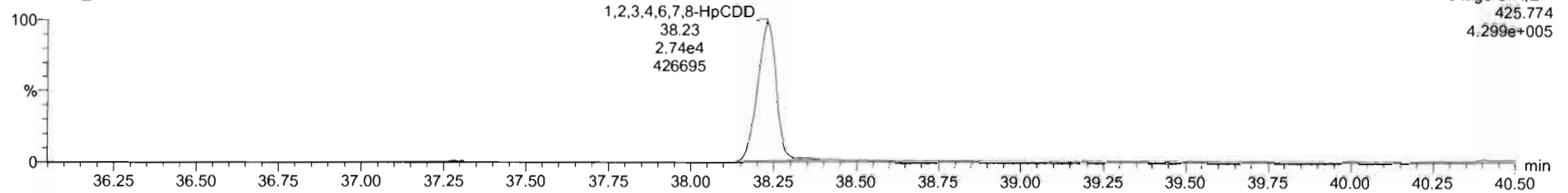
Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 ~~19L2304~~

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

200919R2\_3

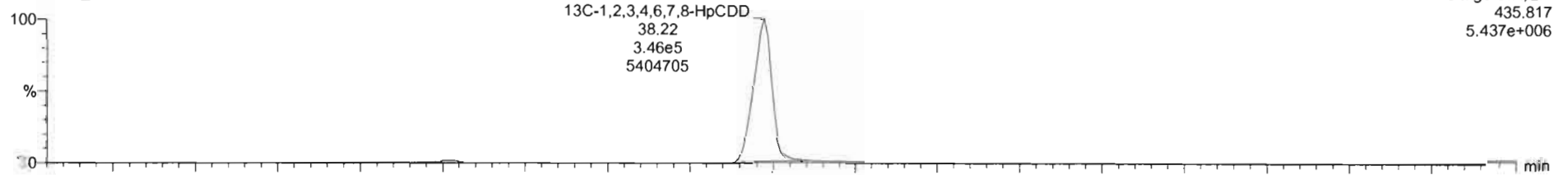


200919R2\_3

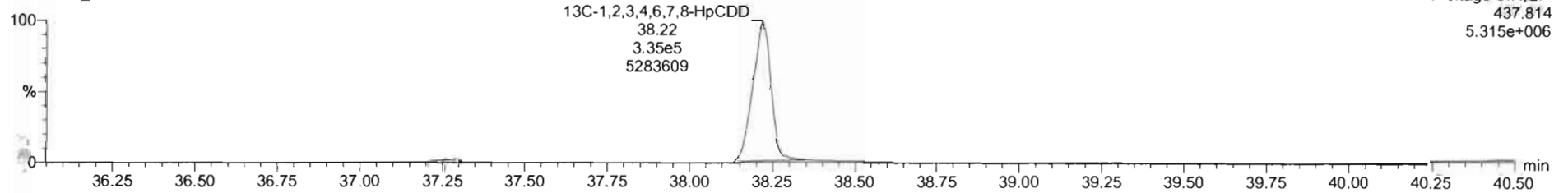


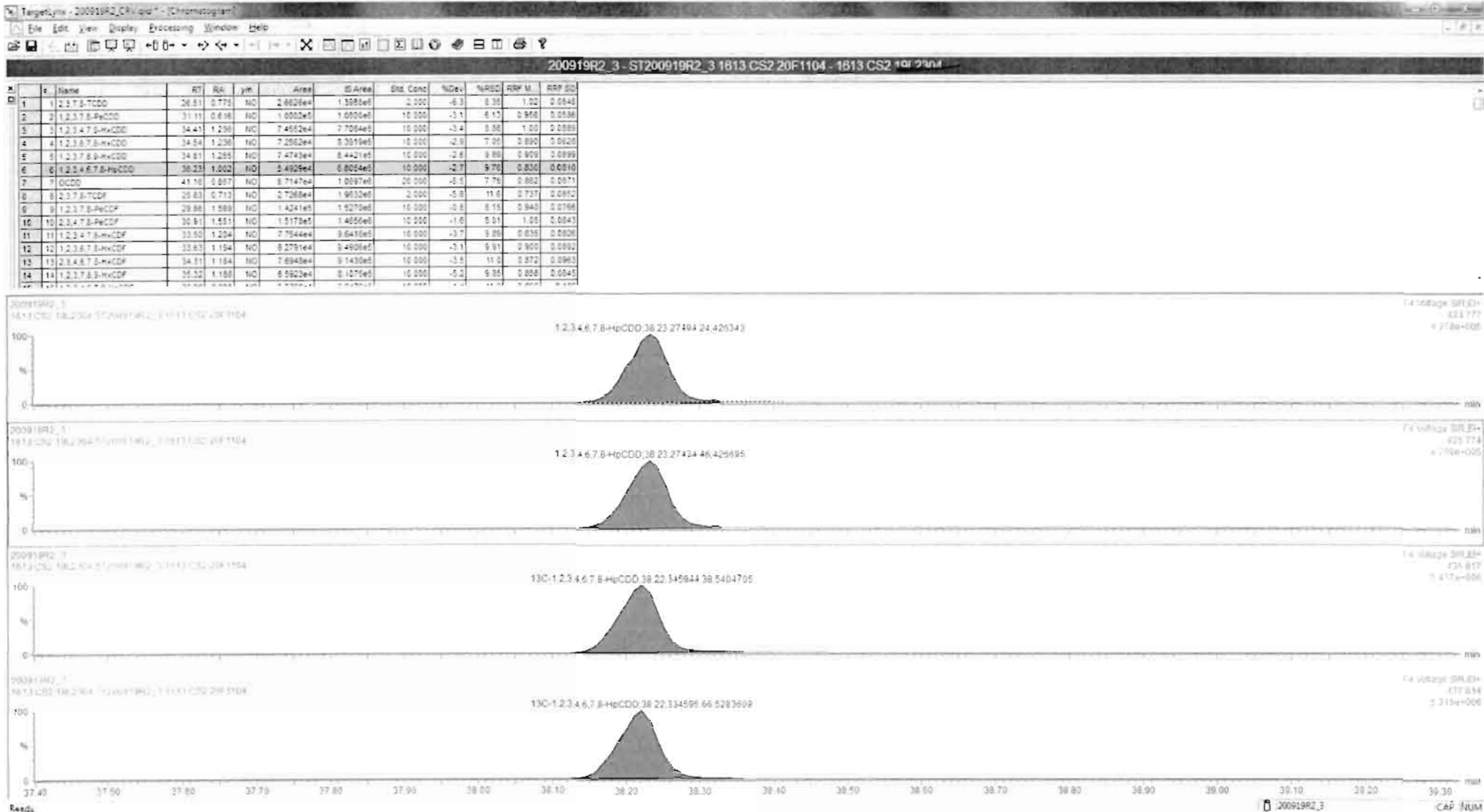
**13C-1,2,3,4,6,7,8-HpCDD**

200919R2\_3



200919R2\_3





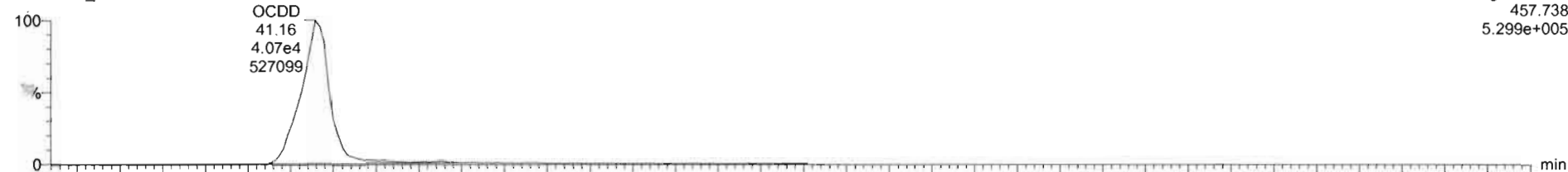
Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 ~~19L2304~~

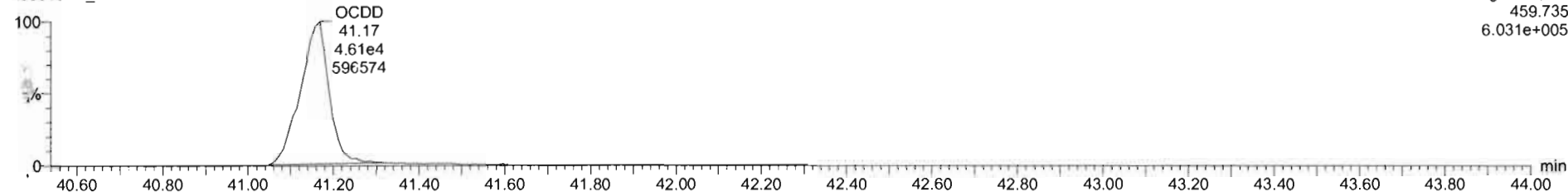
**OCDD**

200919R2\_3



F5:Voltage SIR,EI+  
457.738  
5.299e+005

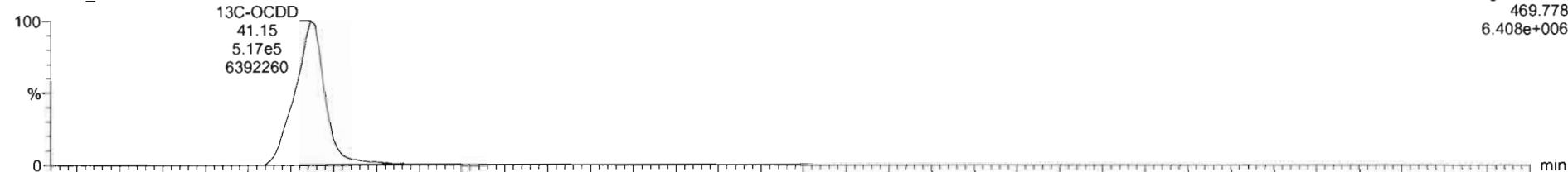
200919R2\_3



F5:Voltage SIR,EI+  
459.735  
6.031e+005

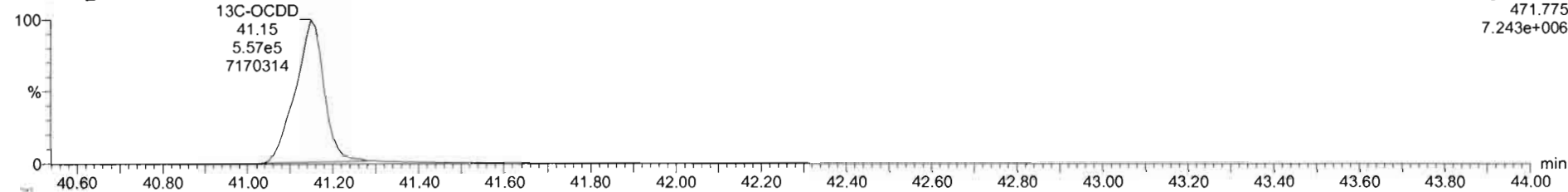
**13C-OCDD**

200919R2\_3

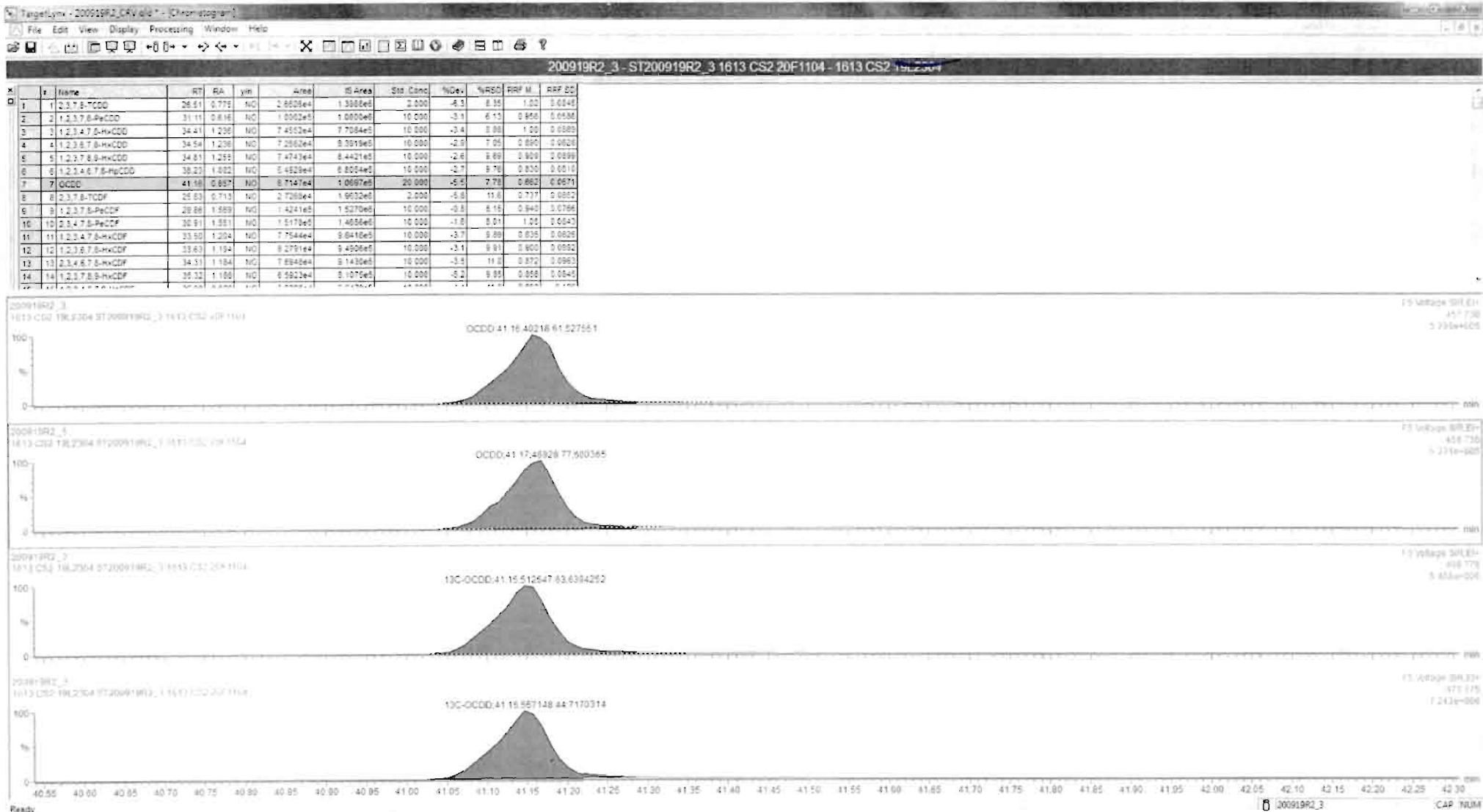


F5:Voltage SIR,EI+  
469.778  
6.408e+006

200919R2\_3



F5:Voltage SIR,EI+  
471.775  
7.243e+006

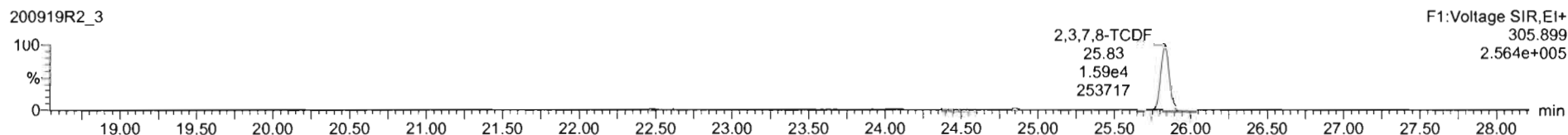
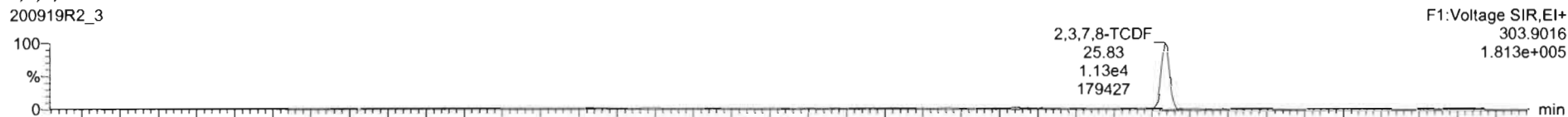


Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

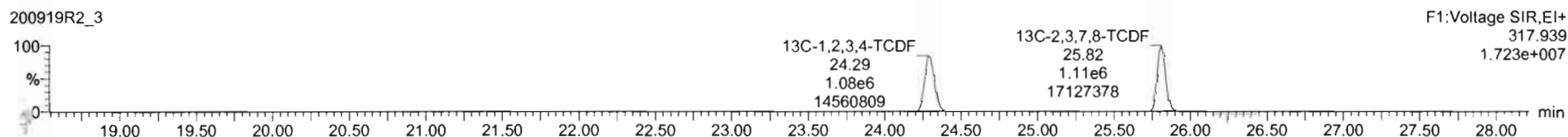
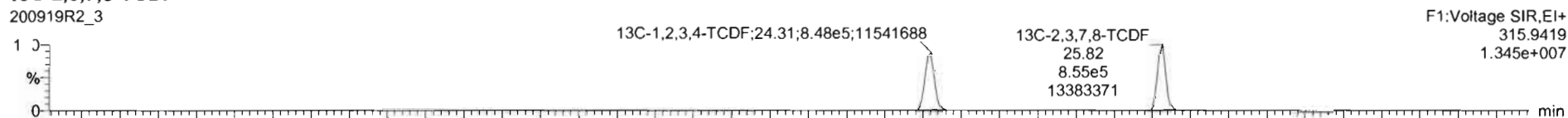
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 ~~40L2304~~

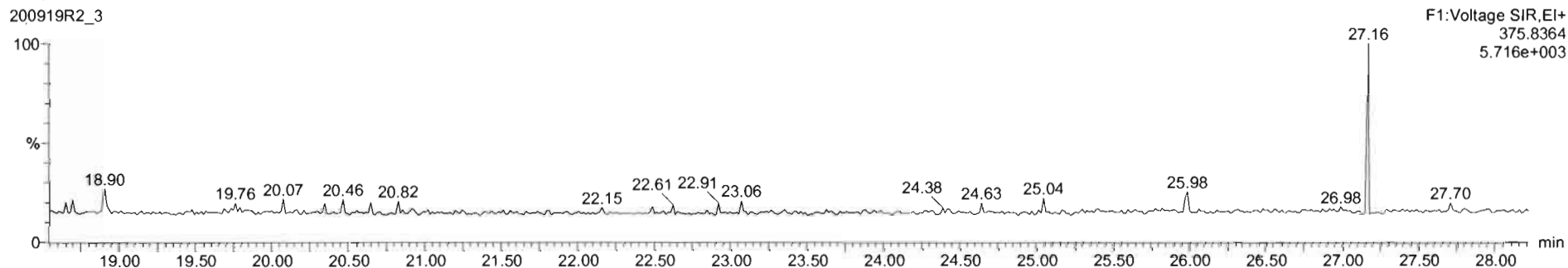
**2,3,7,8-TCDF**

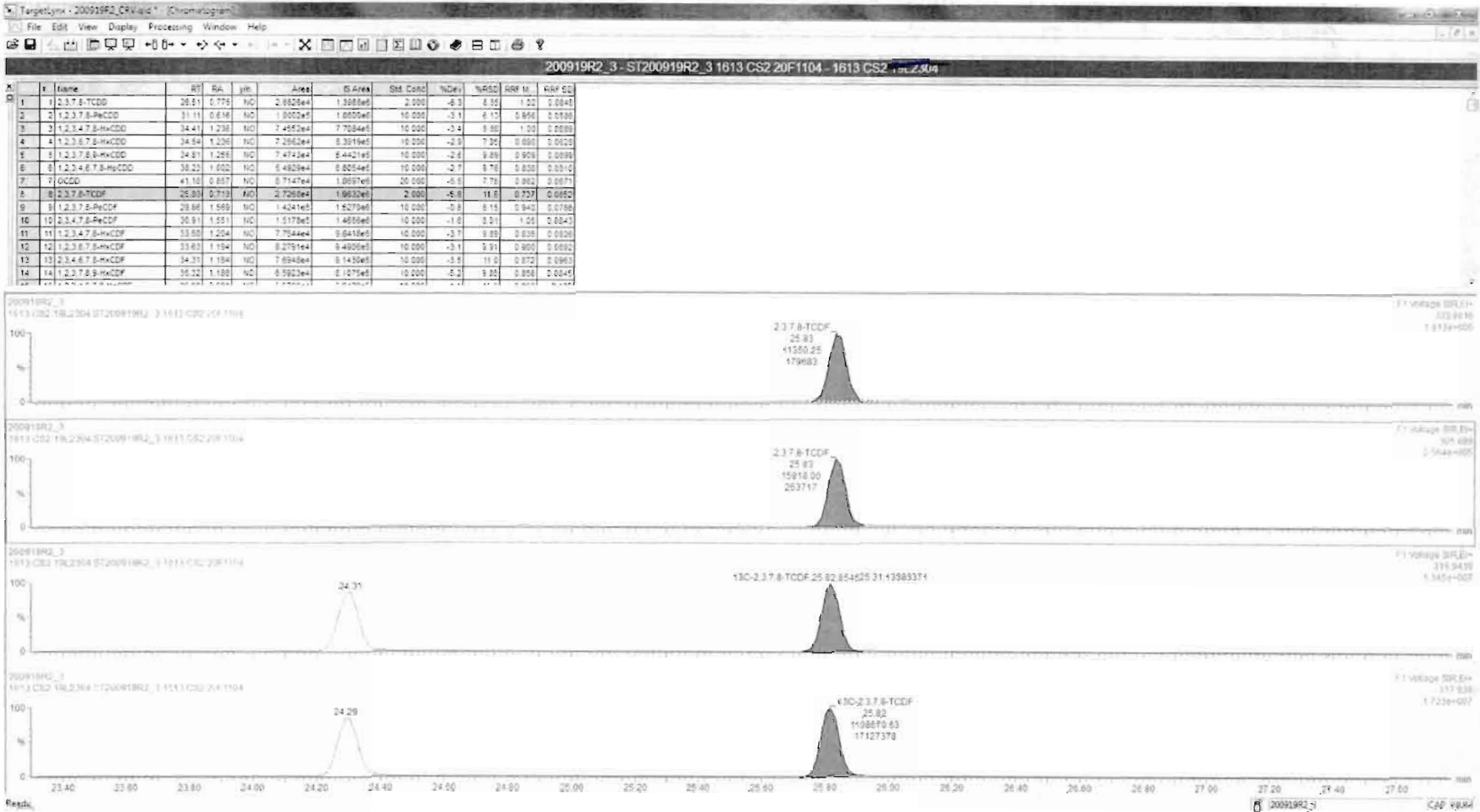


**13C-2,3,7,8-TCDF**



**DPE1**





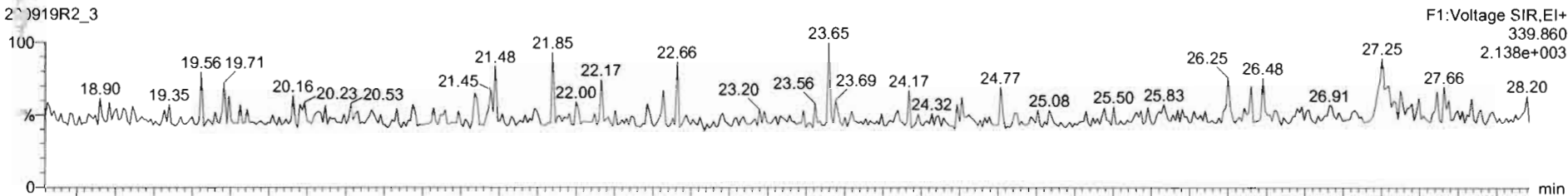
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Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

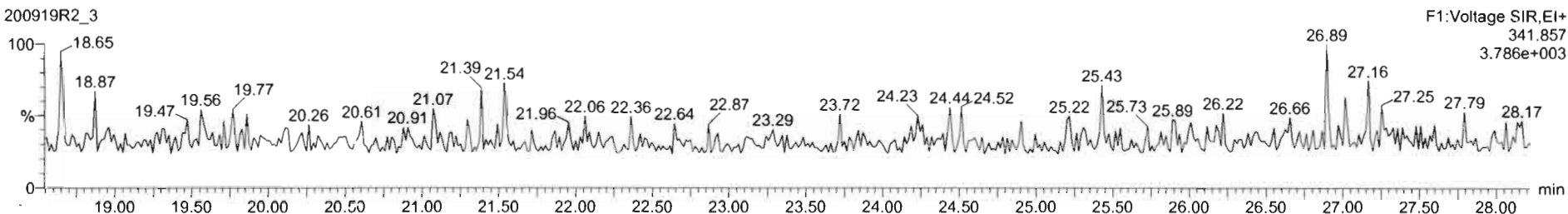
Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 ~~19L2304~~

1st Func. Penta-Furans

200919R2\_3

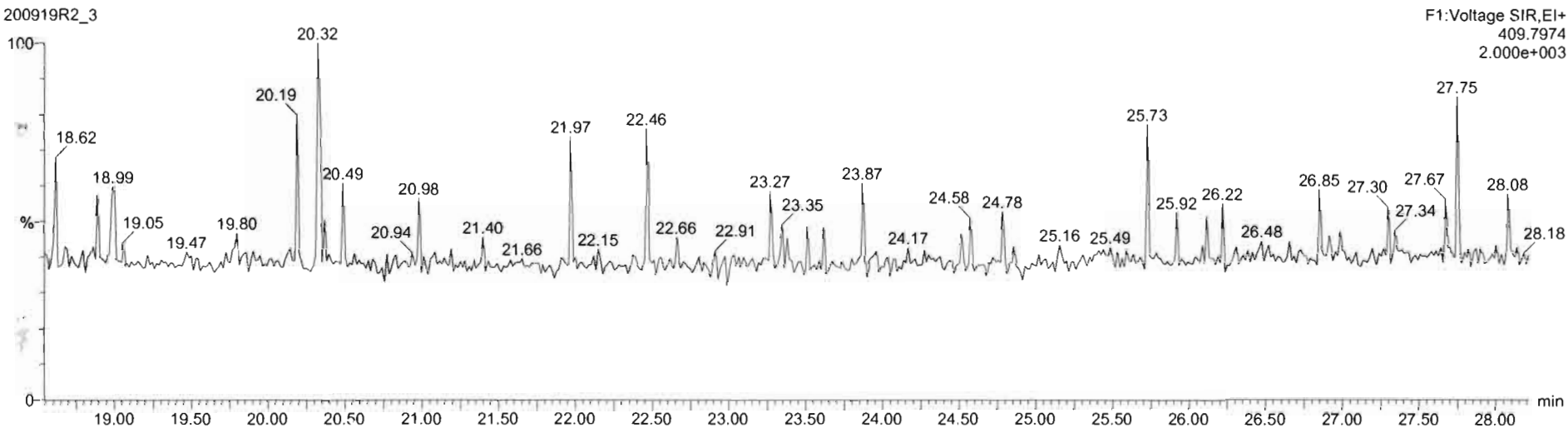


200919R2\_3



DPE6

200919R2\_3



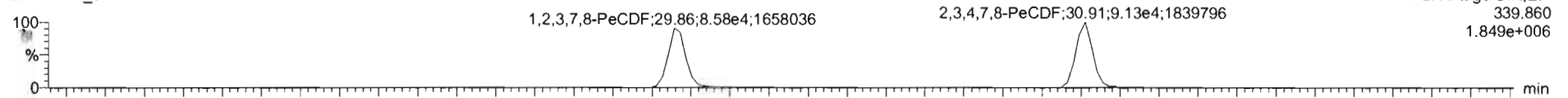
Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 ~~10L-2304~~

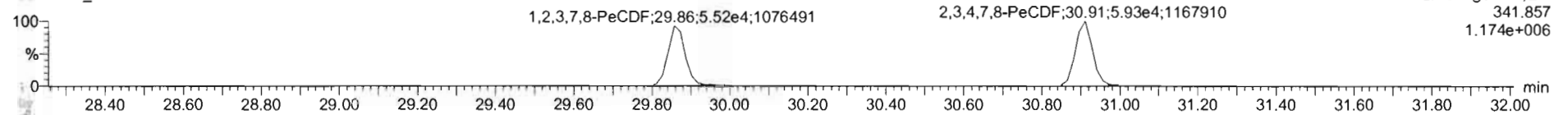
**1,2,3,7,8-PeCDF**

200919R2\_3



F2:Voltage SIR,EI+  
339.860  
1.849e+006

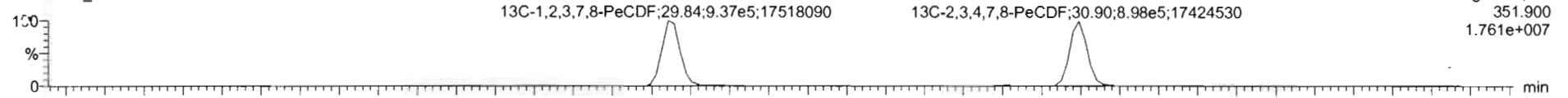
200919R2\_3



F2:Voltage SIR,EI+  
341.857  
1.174e+006

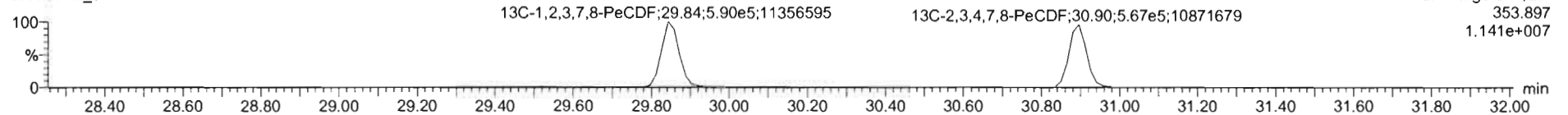
**13C-1,2,3,7,8-PeCDF**

200919R2\_3



F2:Voltage SIR,EI+  
351.900  
1.761e+007

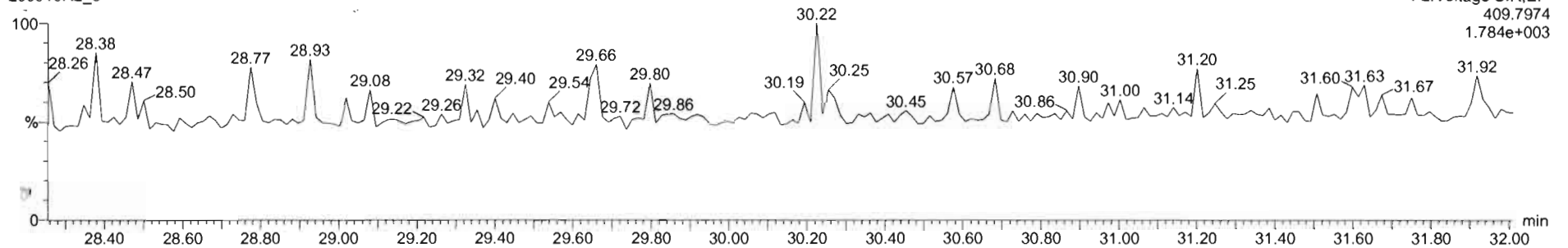
200919R2\_3



F2:Voltage SIR,EI+  
353.897  
1.141e+007

**DPE2**

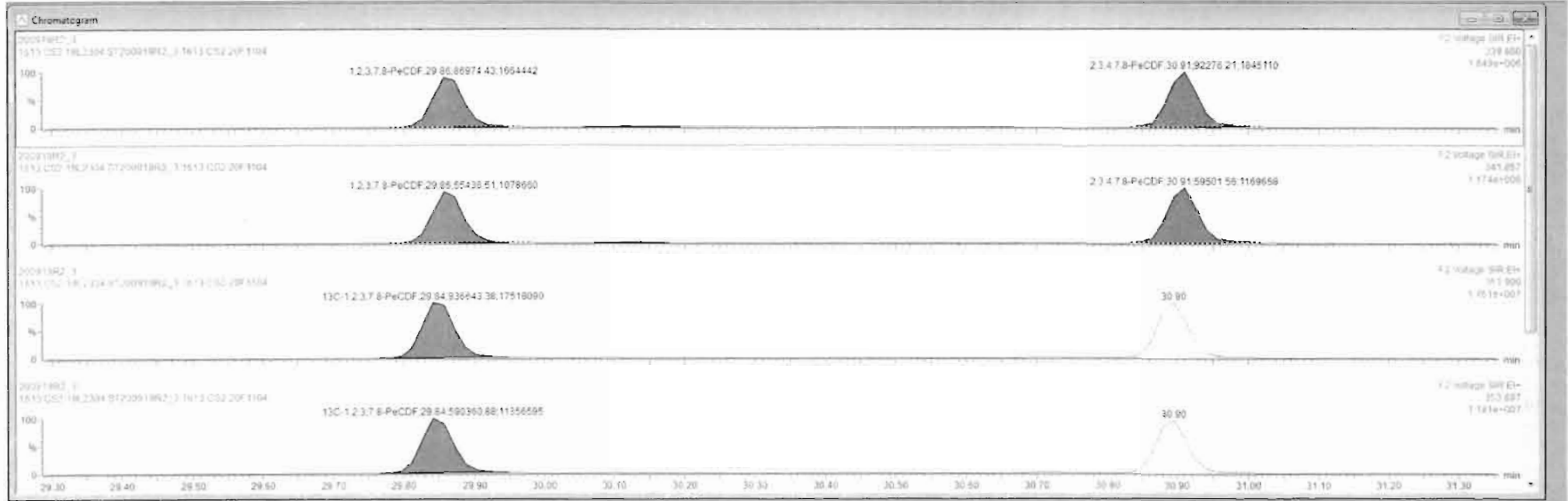
200919R2\_3



F2:Voltage SIR,EI+  
409.7974  
1.784e+003



#	Name	RT	RA	Ym	Area	IS Area	Std. Conc.	%Dev.	%RSD	RRF M.	RRF SD
36	13C-1,2,3,4-TCDF	29.74	0.801	NO	1.2189e6	1.2189e6	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	24.31	0.787	NO	1.9262e6	1.9262e6	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,5-PeCDF	32.80	0.499	NO	8.8827e5	8.8827e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.3908e6		2.000		0.35	1.02	0.0040
40	Total Penta-Dioxins				1.0000e6		10.000		6.17	2.995	0.0596
41	Total Hexa-Dioxins				0.0000e0		10.000		0.39	0.880	0.0718
42	Total Hepta-Dioxins				0.0000e0		10.000		0.96	0.032	0.0028
43	Total Tetra-Furans				1.9032e6		2.000		11.3	0.735	0.0032
44	1st Func. Penta-Furans				0.0000e0		10.000		0.38	0.938	0.0758
45	Total Penta-Furans				0.0000e0		10.000		0.88	0.939	0.0758
46	Total Hexa-Furans				0.0000e0		10.000		10.8	0.070	0.0030
47	Total Hepta-Furans				0.0000e0		10.000		11.6	0.051	0.103
48	ax1 peak						1.000				



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

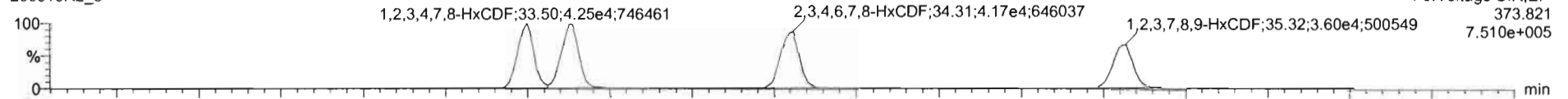
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

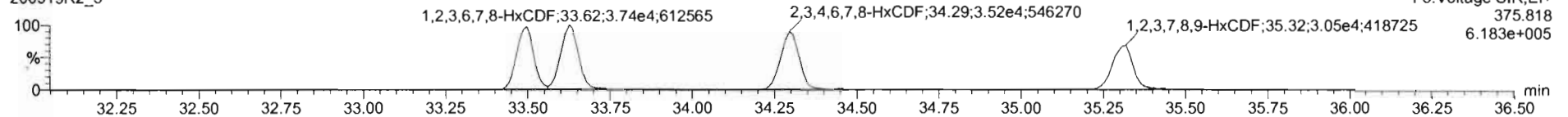
Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 ~~19L2304~~

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

200919R2\_3

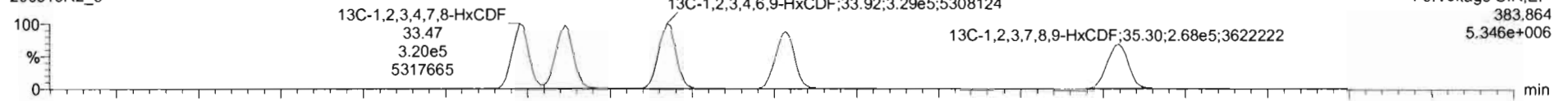


200919R2\_3

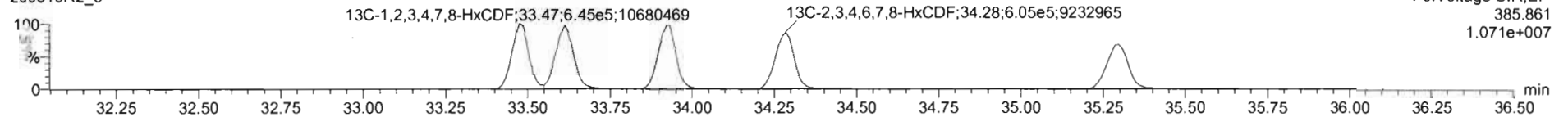


13C-1,2,3,4,7,8-HxCDF

200919R2\_3

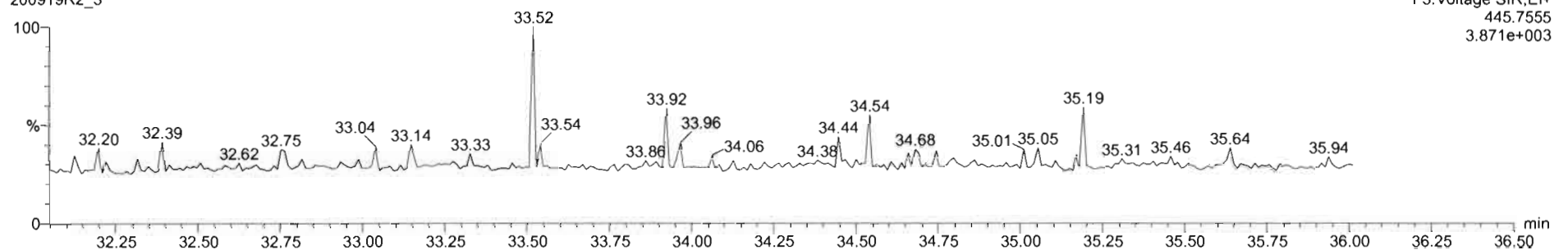


200919R2\_3



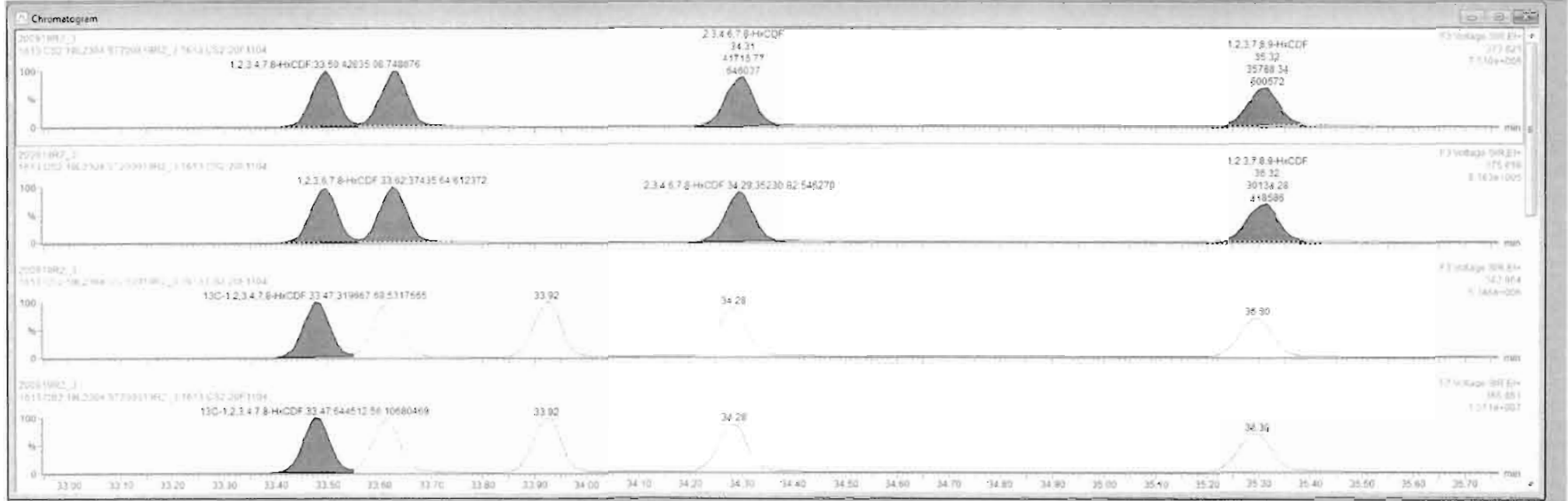
DPE3

200919R2\_3



200919R2\_3 - ST200919R2\_3 1813 CS2 20F1104 - 1613 CS2

#	Name	RT	Rt	Yth	Area	ID#	Std. Conc.	%Det.	%RSD	RRF M	RRF SD
36	13C-1,2,3,4-TCDD	26.74	0.801	NO	1.2189e8	1.2189e8	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	34.31	0.787	NO	1.9282e8	1.9282e8	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,8,9-HxCDF	33.92	0.499	NO	9.8827e5	9.8827e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.3088e8		2.000		0.35	1.02	0.0040
40	Total Penta-Dioxins				1.0800e8		10.000		6.13	0.966	0.0186
41	Total Hexa-Dioxins				0.0000e0		10.000		0.59	0.888	0.0718
42	Total Hepta-Dioxins				8.8094e5		10.000		0.96	0.832	0.0620
43	Total Tetra-Furans				1.9632e6		2.000		11.3	0.735	0.0832
44	1st Func. Penta-Furans				0.0000e0		10.000		0.88	0.938	0.0758
45	Total Penta-Furans				0.0000e0		10.000		0.86	0.939	0.0758
46	Total Hexa-Furans				0.0000e0		10.000		10.8	0.870	0.0938
47	Total Hepta-Furans				0.0000e0		10.000		11.8	0.891	0.103
48	1st FOC				1.000						

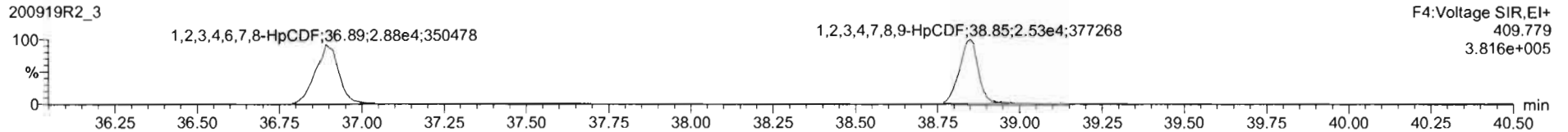
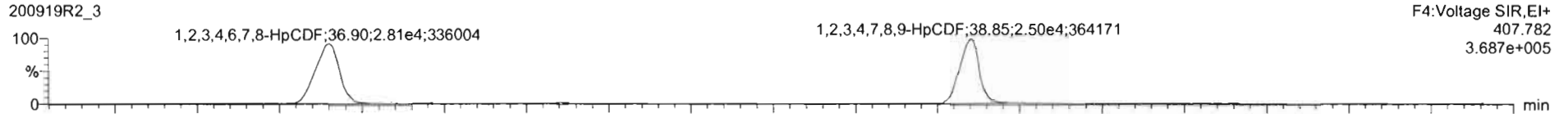


Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

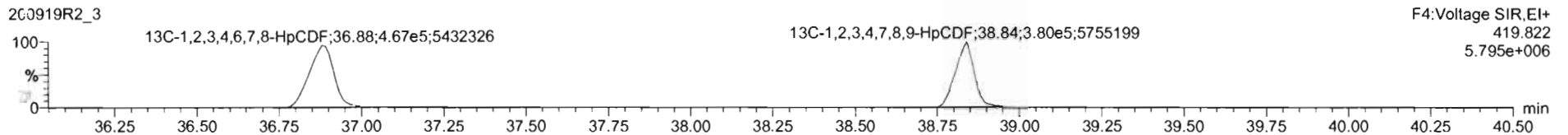
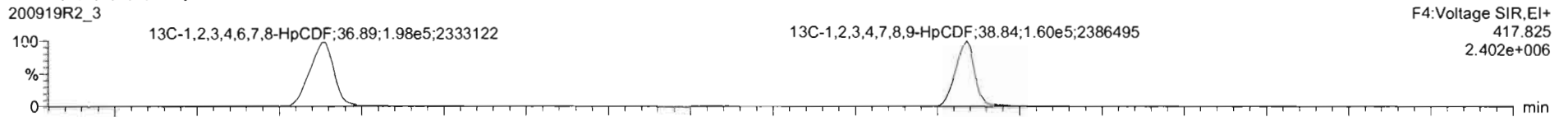
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 10L-2304

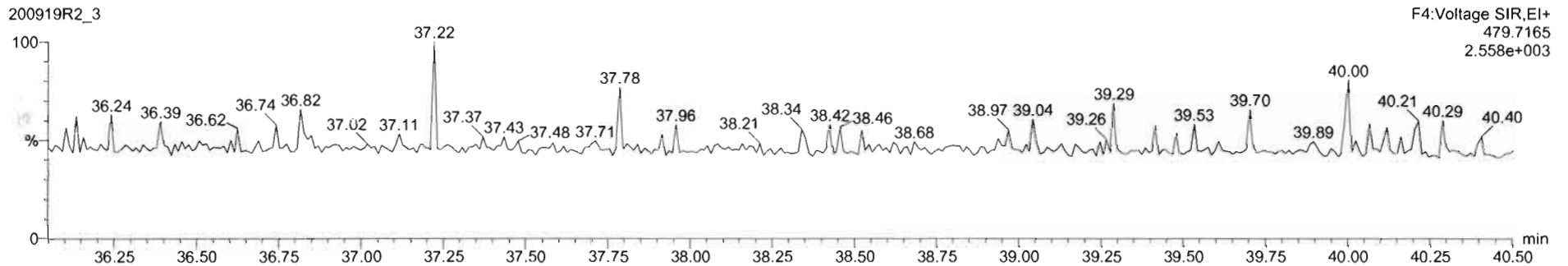
1,2,3,4,6,7,8-HpCDF



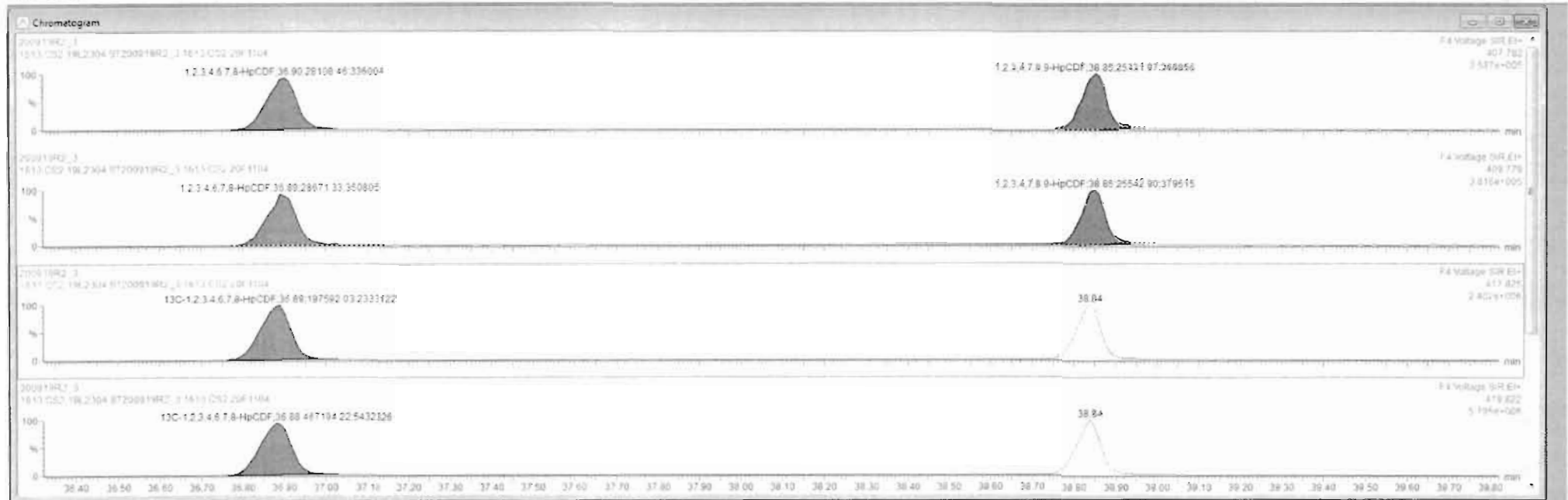
13C-1,2,3,4,6,7,8-HpCDF



DPE4



#	Name	RT	RA	ym	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M	RRF SD
36	13C-1,2,3,4-TCDD	25.74	0.801	NO	1.2189e5	1.2189e5	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	24.31	0.787	NO	1.9282e5	1.9282e5	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,6,8-HxCDF	33.82	0.499	NO	9.8827e5	9.8827e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.3988e5		2.000		8.35	1.02	0.0845
40	Total Penta-Dioxins				1.0500e5		10.000		6.13	0.966	0.0486
41	Total Hexa-Dioxins				0.0000e0		10.000		8.09	0.858	0.0718
42	Total Hepta-Dioxins				0.0000e0		10.000		9.96	0.932	0.0229
43	Total Tetra-Furans				1.9632e5		2.000		11.3	0.735	0.0332
44	1st Func. Penta-Furans				0.0000e0		10.000		8.36	1.826	0.0766
45	Total Penta-Furans				0.0000e0		10.000		3.05	0.926	0.0750
46	Total Hexa-Furans				0.0000e0		10.000		10.9	0.870	0.0930
47	Total Hepta-Furans				0.0000e0		10.000		11.6	0.891	0.103
48	Blank						1.000				

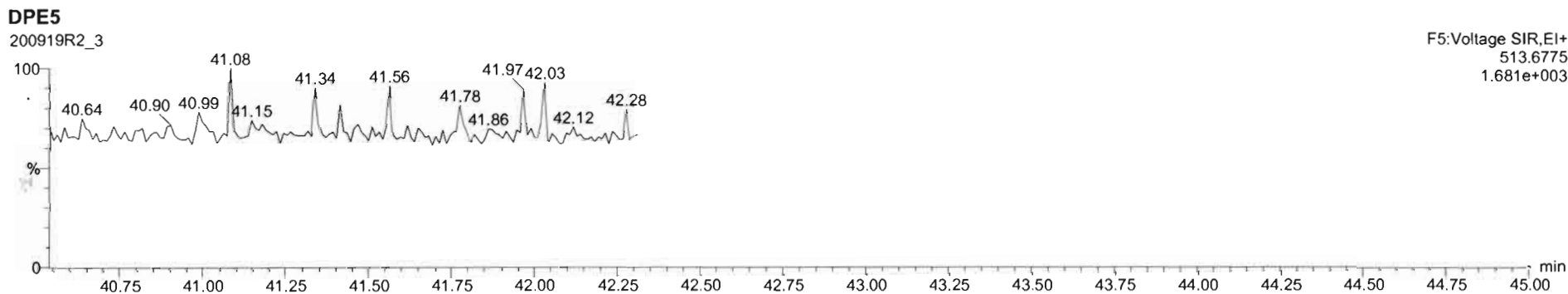
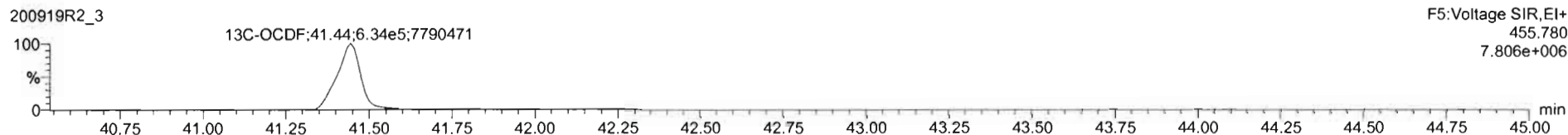
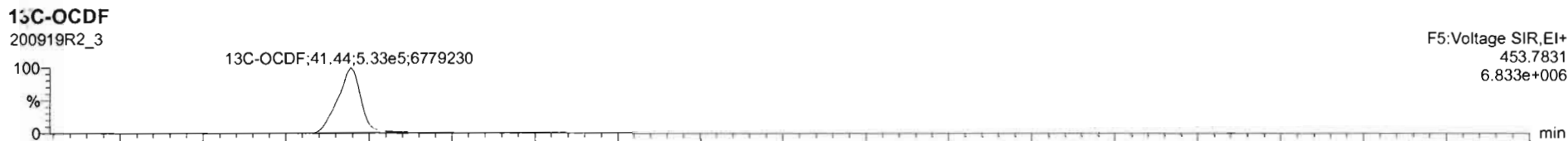
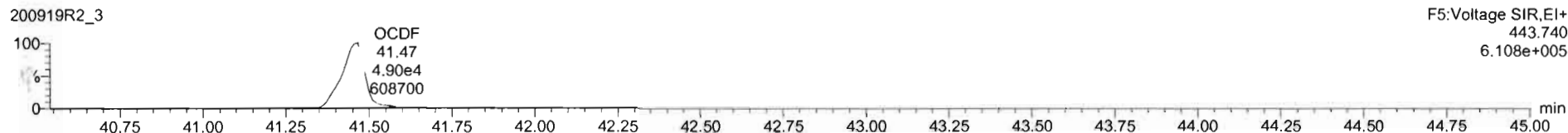
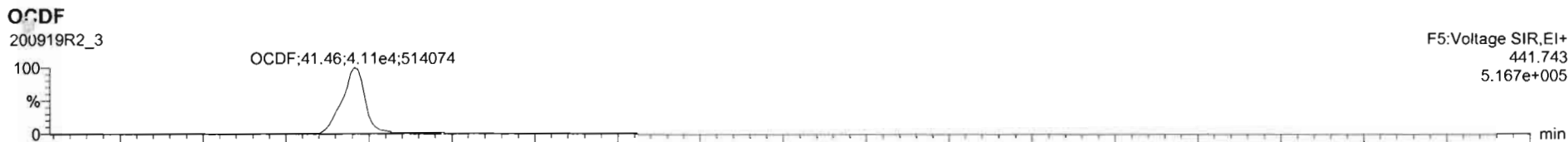


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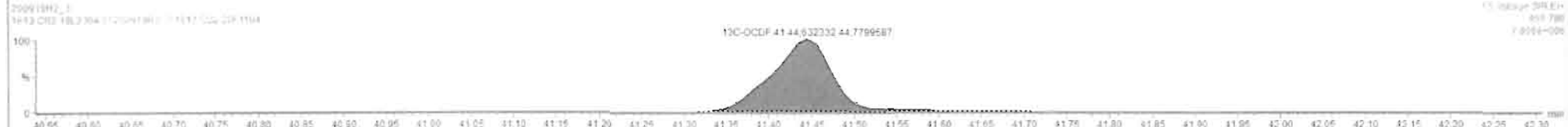
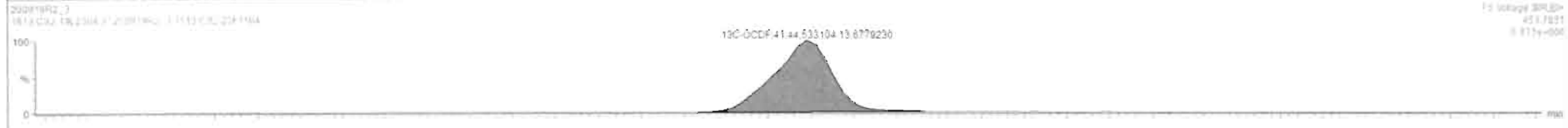
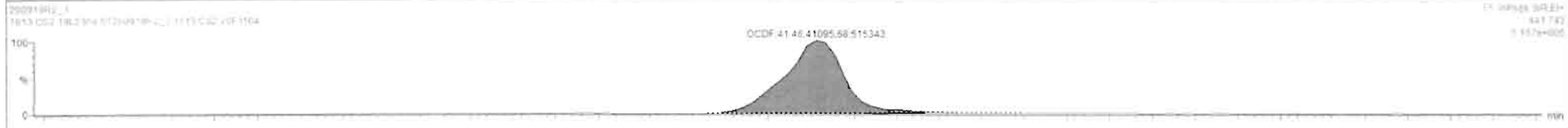
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Name: 200919R2\_3, Date: 19-Sep-2020, Time: 15:10:05, ID: ST200919R2\_3 1613 CS2 20F1104, Description: 1613 CS2 10L2304



#	Name	RT	RA	ym	Area	IS Area	Std. Conc.	%Dev.	%RSD	RRF M	RRF SD
15	1,2,3,4,6,7,8-HpCDF	26.00	0.880	NO	5.8780e4	8.6479e5	10.000	-4.4	11.0	0.693	0.108
16	1,2,3,4,7,8,9-HpCDF	36.85	0.992	NO	5.0075e4	5.3944e5	10.000	-5.7	9.80	1.00	0.0686
17	OCDF	41.46	0.840	NO	8.9546e4	1.1854e5	20.000	-2.0	11.4	0.794	0.0687
18	13C-2,3,7,8-TCDF	26.45	0.780	NO	1.3909e5	1.2199e6	100.000	-0.2	1.20	1.10	0.0144
19	13C-1,2,3,7,8-PeCDF	21.08	0.629	NO	1.9509e5	1.2199e6	100.000	0.1	7.86	0.887	0.0697
20	13C-1,2,3,4,7,8-HxCDD	34.39	1.268	NO	7.7084e5	9.8027e5	100.000	-2.7	9.82	0.801	0.0451
21	13C-1,2,3,6,7,8-HxCDD	34.52	1.268	NO	8.3919e5	9.8027e5	100.000	-4.0	4.32	0.892	0.0430
22	13C-1,2,3,7,8,9-HxCDD	34.78	1.280	NO	8.4421e5	9.8027e5	100.000	-3.2	4.97	0.882	0.0438
23	13C-1,2,3,4,6,7,8-HpCDD	36.22	1.034	NO	8.8054e5	9.8027e5	100.000	-4.1	8.36	0.718	0.0388
24	13C-OCDD	41.15	0.820	NO	1.0687e6	9.8027e5	200.000	-3.9	8.80	0.580	0.0484
25	13C-2,3,7,8-TCDF	25.82	0.771	NO	1.9832e6	1.9282e6	100.000	1.0	1.20	1.01	0.0130
26	13C-1,2,3,7,8-PeCDF	28.84	1.537	NO	1.5270e6	1.9282e6	100.000	-2.8	9.32	0.814	0.0482
27	13C-2,3,4,7,8-PeCDF	30.90	1.584	NO	1.4688e6	1.9282e6	100.000	-0.9	8.85	0.780	0.0510
28	13C-1,2,3,4,7,8-HxCDF	33.47	0.496	NO	9.6418e5	9.8027e5	100.000	-1.7	3.85	0.990	0.0298



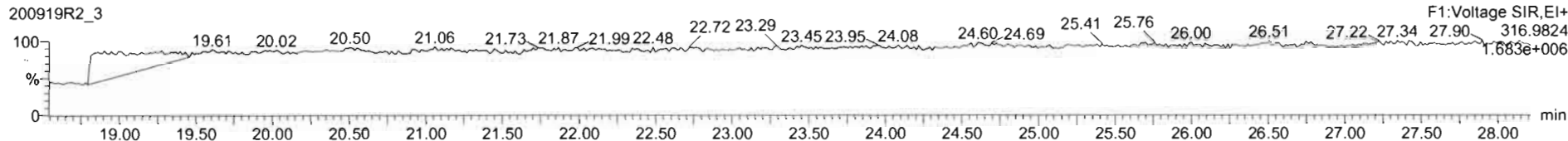
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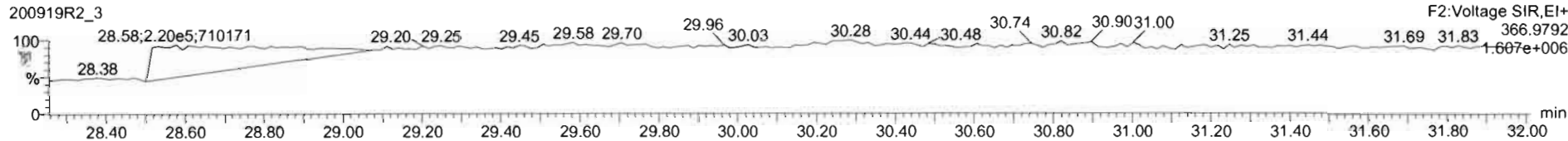
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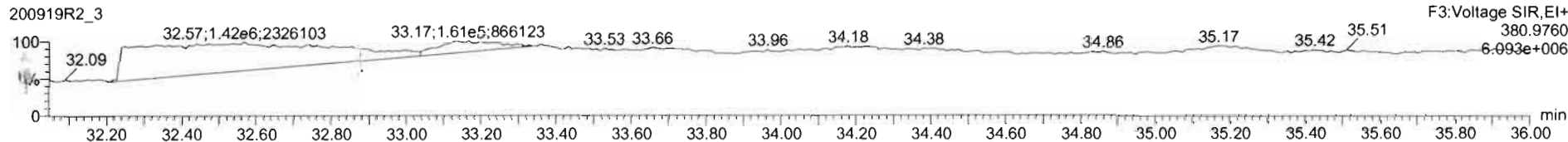
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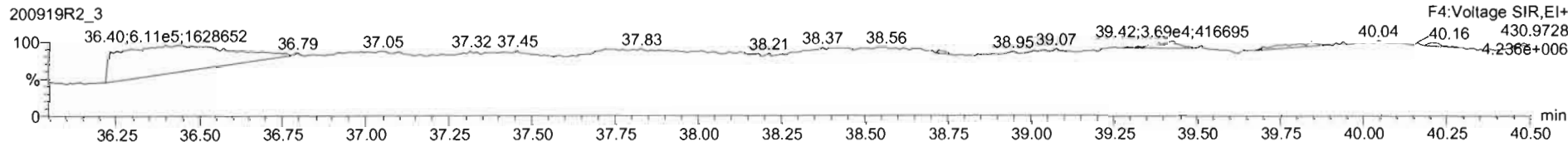
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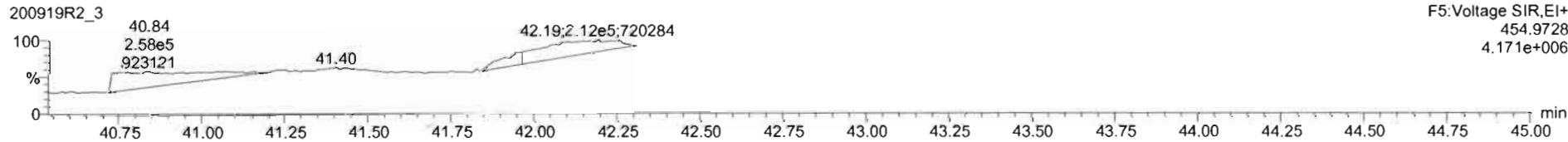
PFK3



PFK4



PFK5



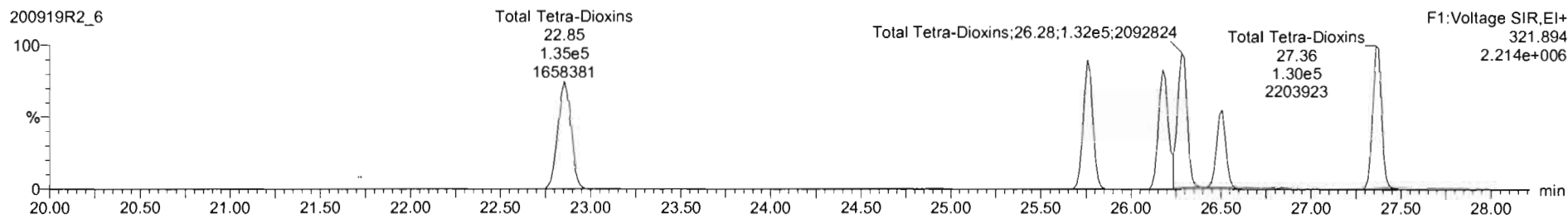
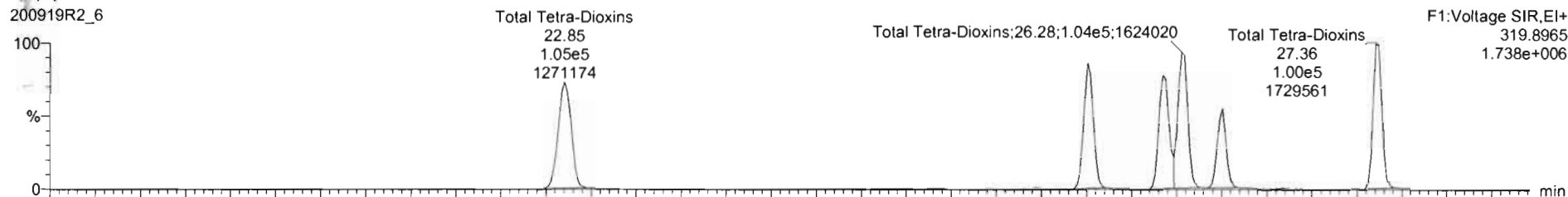


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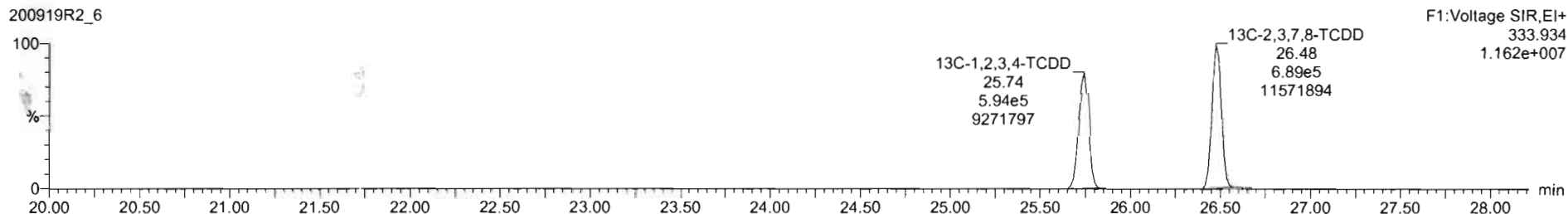
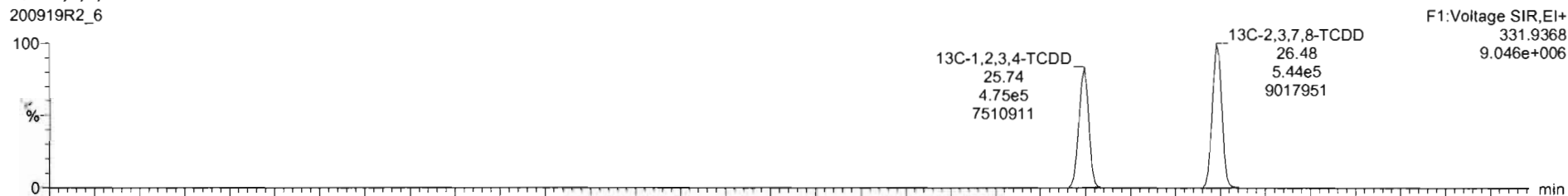
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2,3,7,8-TCDD



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



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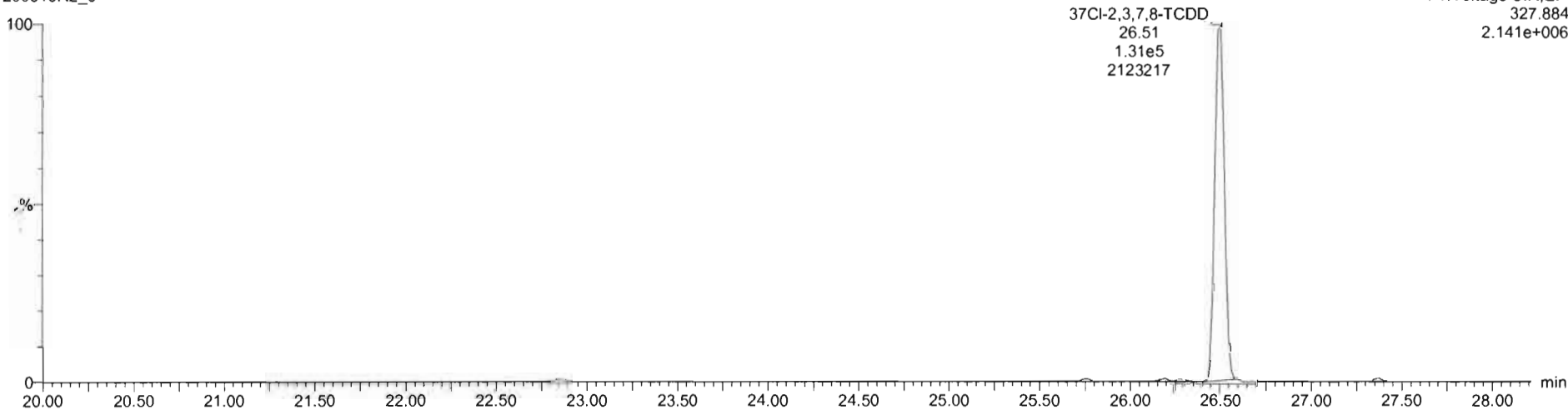
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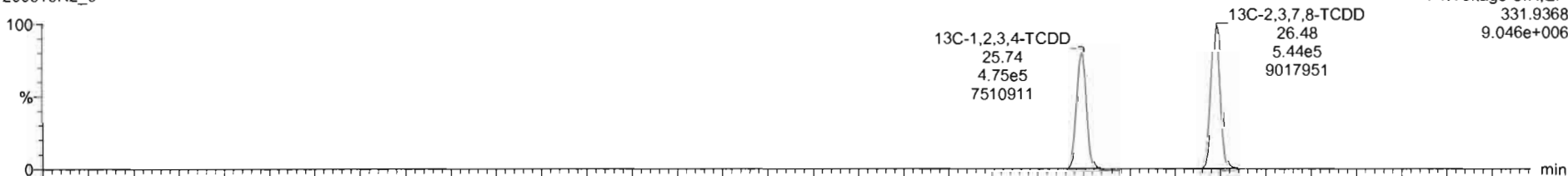
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200919R2\_6

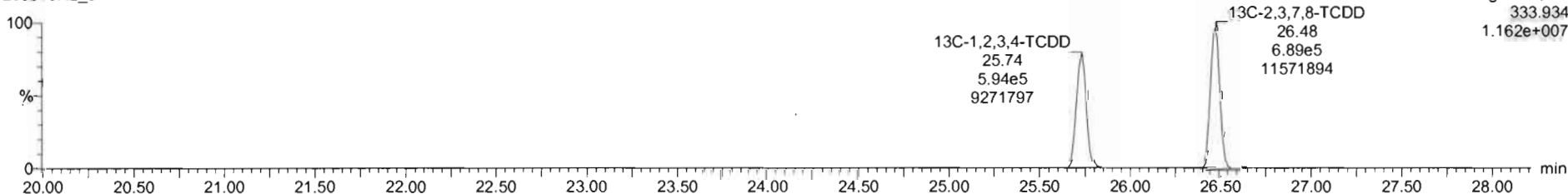


13C-1,2,3,4-TCDD

200919R2\_6



200919R2\_6



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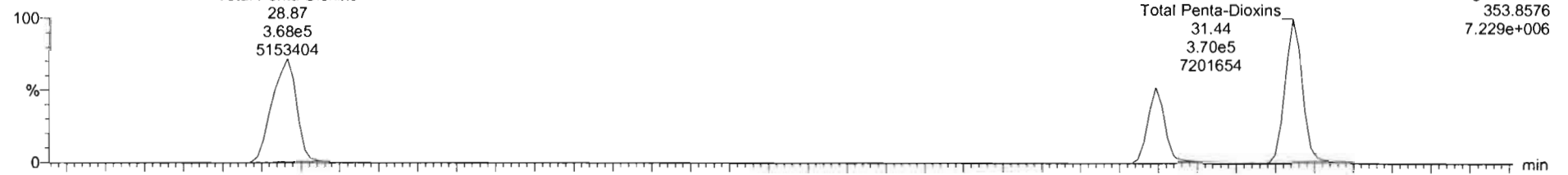
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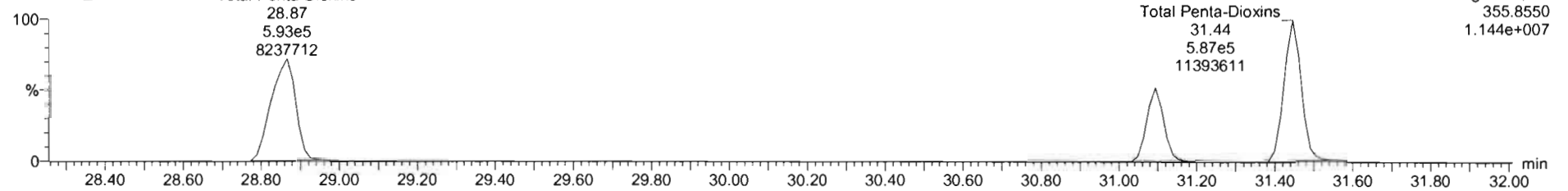
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**1,2,3,7,8-PeCDD**

200919R2\_6

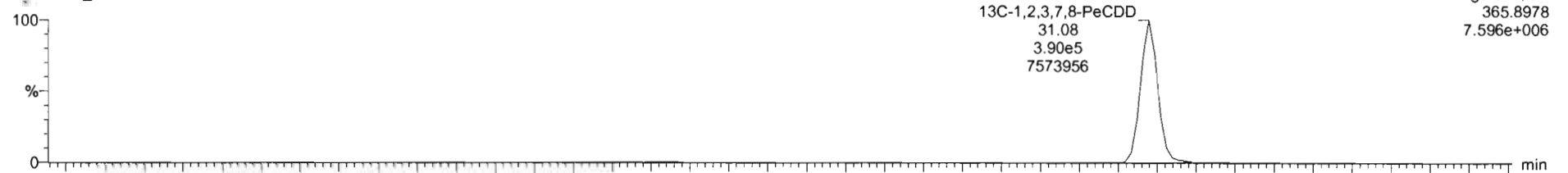


200919R2\_6

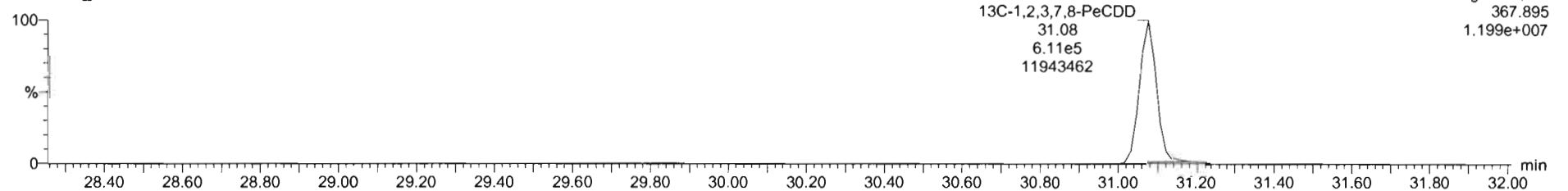


**13C-1,2,3,7,8-PeCDD**

200919R2\_6



200919R2\_6



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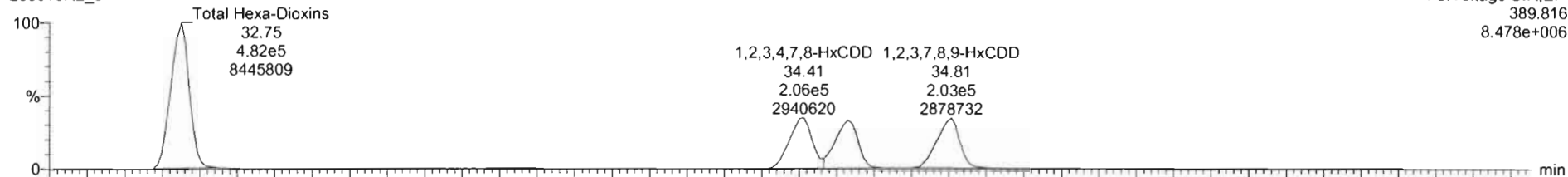
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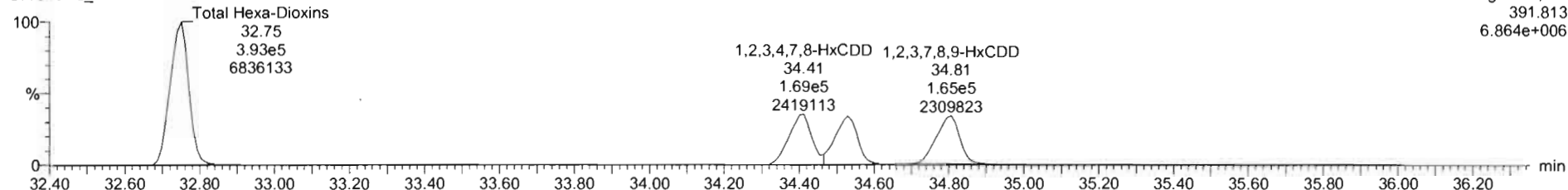
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1,2,3,4,7,8-HxCDD

200919R2\_6

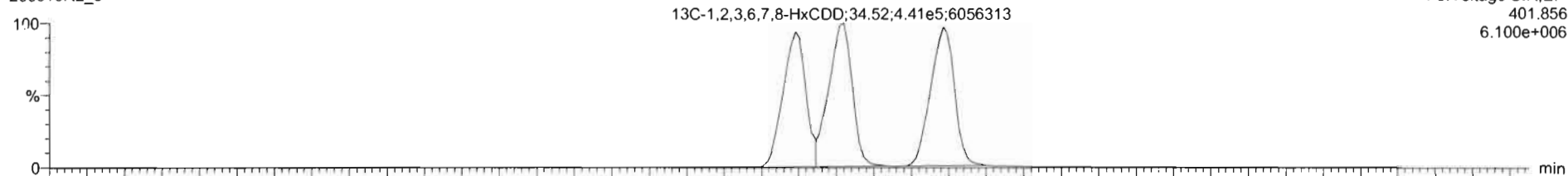


200919R2\_6

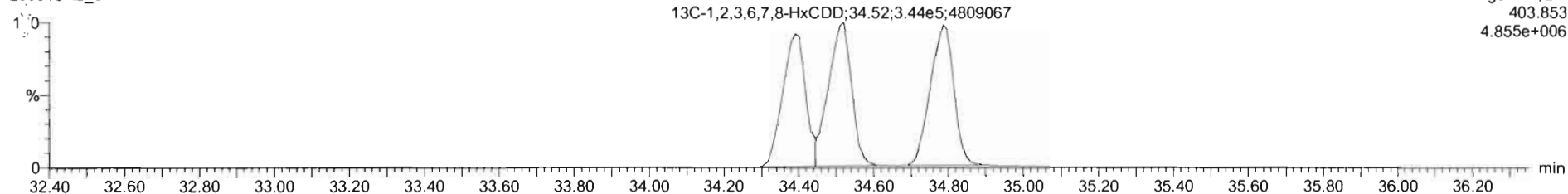


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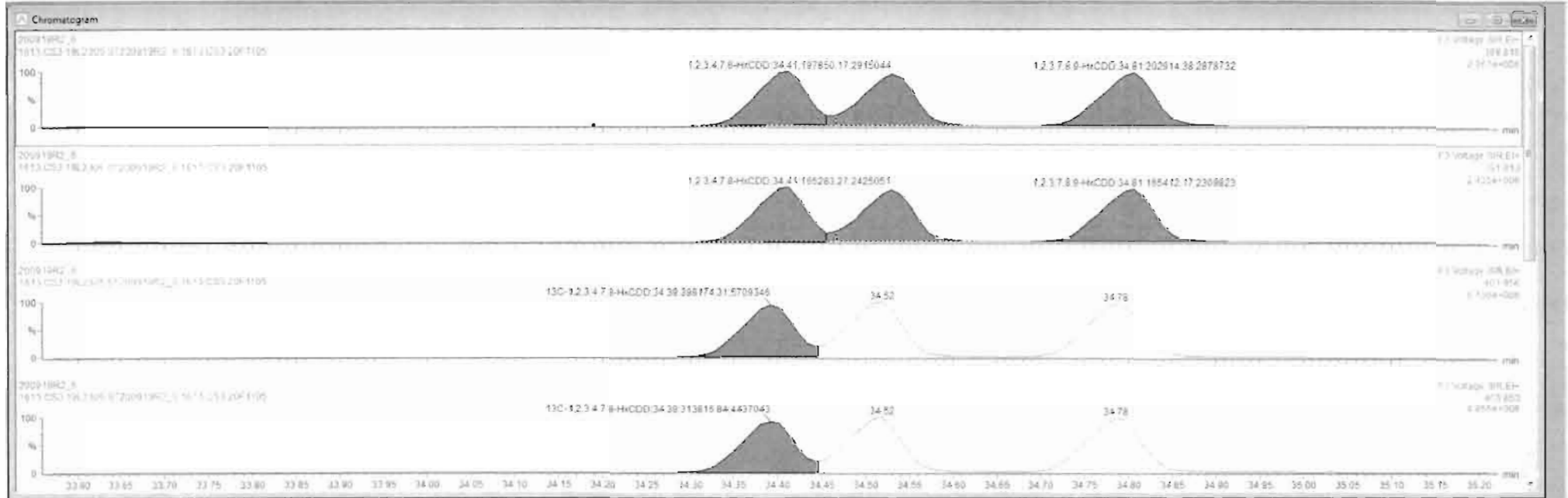
200919R2\_6



200919R2\_6



#	Name	RT	RA	Yin	Area	ID Area	Std. Conc.	%Dev.	%RSD	RRF M.	RRF SD
36	13C-1,2,3,4-TCDD	28.74	0.800	NO	1.0690e5	1.0690e5	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	24.31	0.788	NO	1.6717e8	1.6717e8	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,6,8-HxCDF	33.62	0.500	NO	8.8448e5	8.8448e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.2333e6		10.000		0.30	1.22	0.0048
40	Total Penta-Dioxins				1.0016e6		50.000		6.13	2.958	0.0586
41	Total Hexa-Dioxins				0.0000e0		50.000		0.08	0.800	0.0718
42	Total Hepta-Dioxins				8.2633e6		50.000		9.96	2.632	0.0020
43	Total Tetra-Furans				1.7041e6		10.000		11.0	0.735	0.0032
44	1st Func. Penta-Furans				0.0000e0		50.000		0.26	0.939	0.0758
45	Total Penta-Furans				0.0000e0		50.000		0.36	0.929	0.0766
46	Total Hexa-Furans				0.0000e0		50.000		10.8	0.870	0.0938
47	Total Hepta-Furans				0.0000e0		50.000		11.8	0.891	0.103
48	std 89x1						1.000				



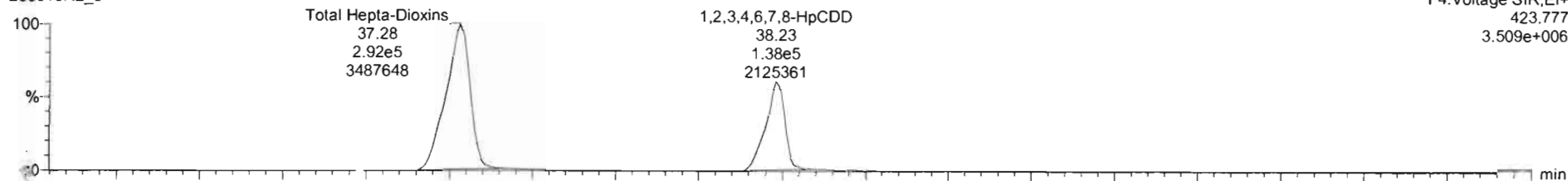
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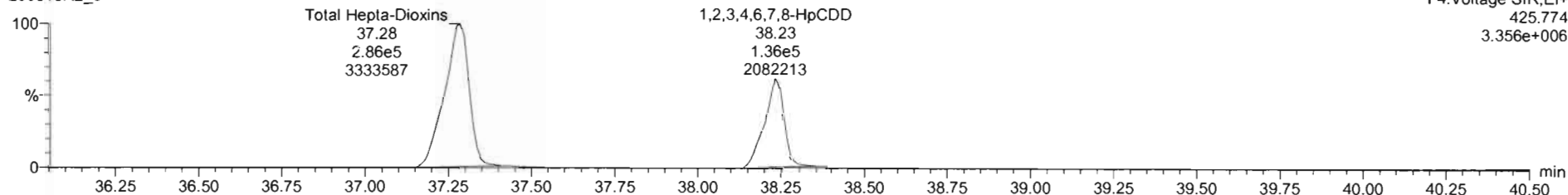
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1,2,3,4,6,7,8-HpCDD

200919R2\_6

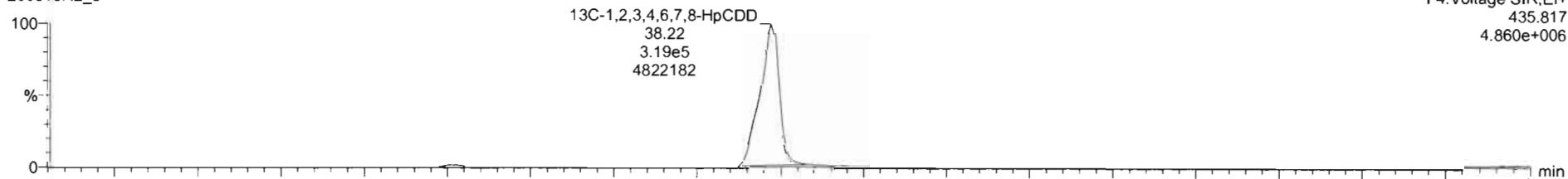


200919R2\_6

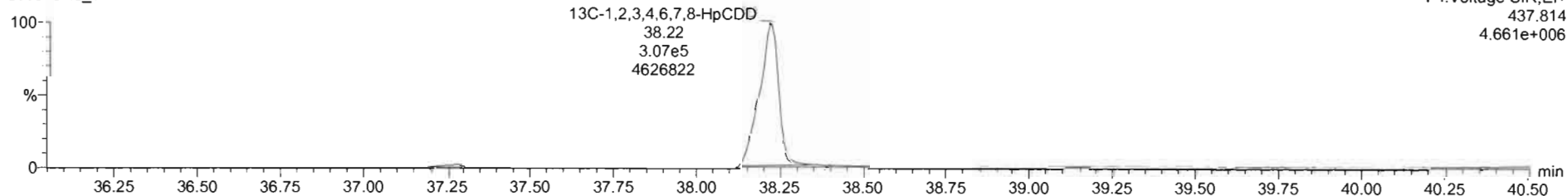


13C-1,2,3,4,6,7,8-HpCDD

200919R2\_6



200919R2\_6



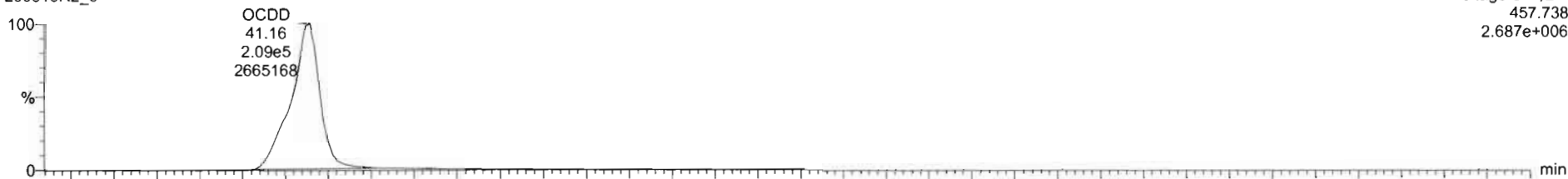
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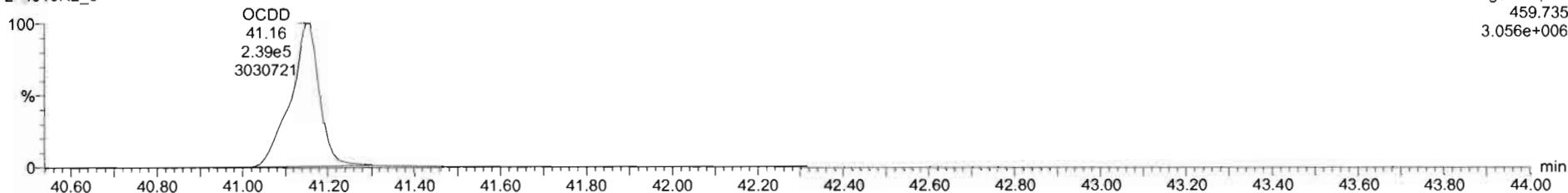
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**OCDD**

200919R2\_6

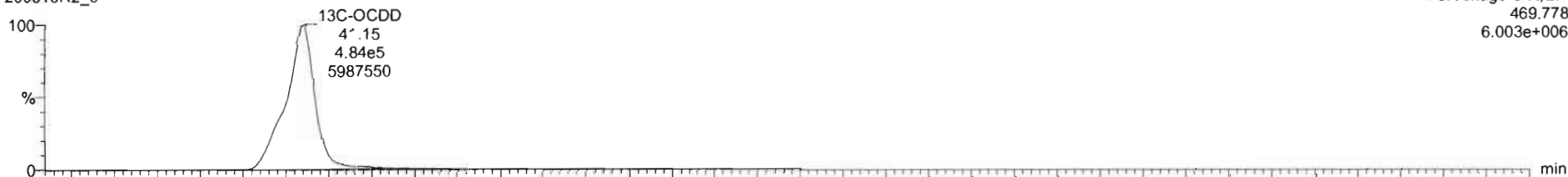


200919R2\_6

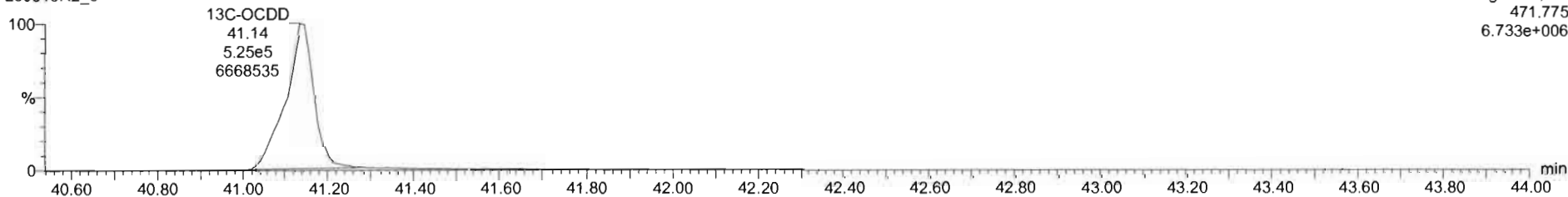


**13C-OCDD**

200919R2\_6



200919R2\_6



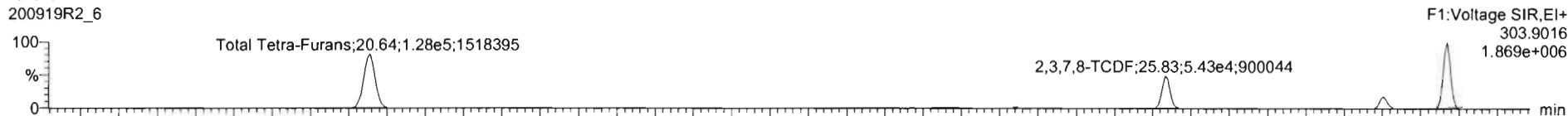
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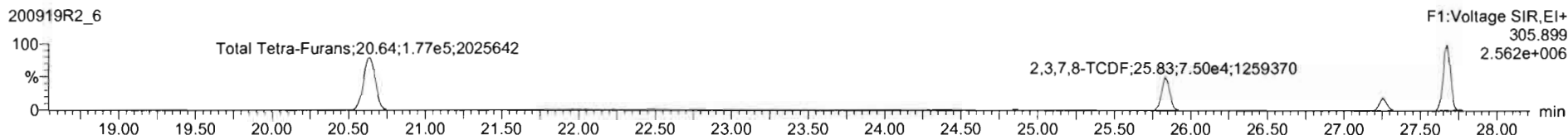
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**2,3,7,8-TCDF**

200919R2\_6

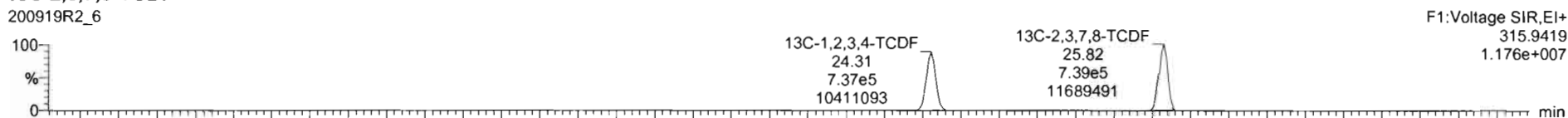


200919R2\_6

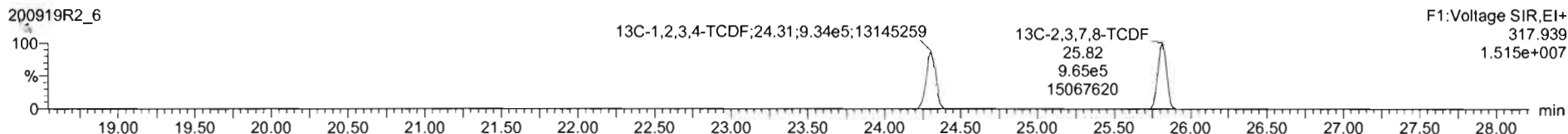


**13C-2,3,7,8-TCDF**

200919R2\_6

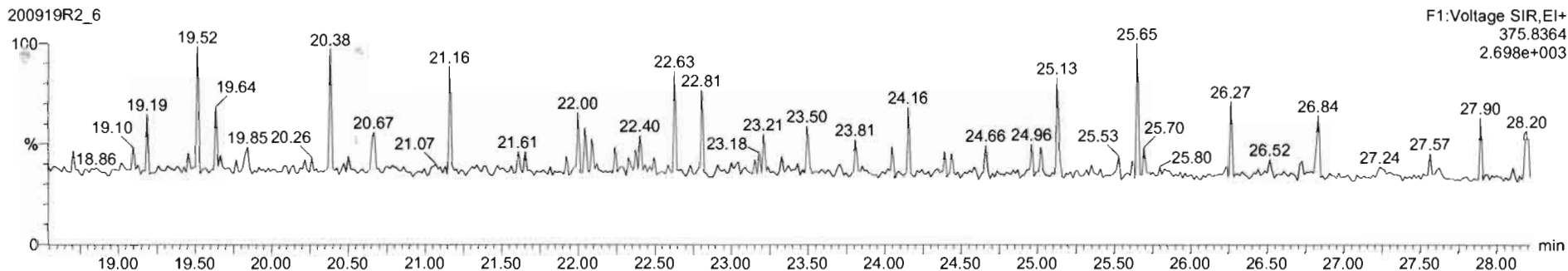


200919R2\_6



**DPE1**

200919R2\_6





Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

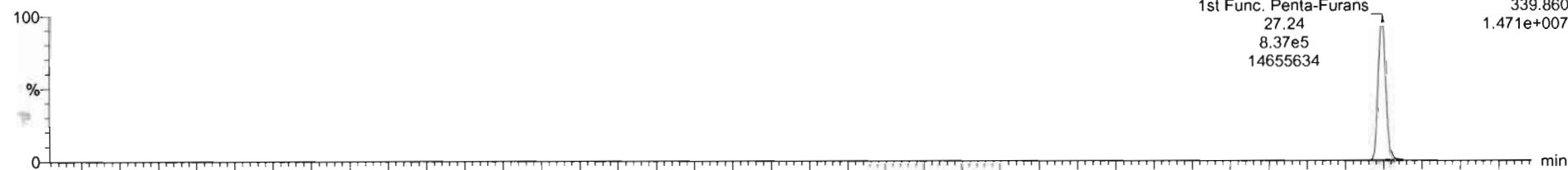
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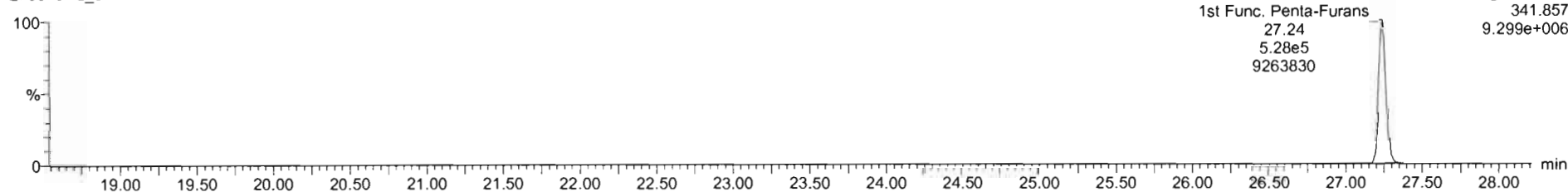
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1st Func. Penta-Furans

200919R2\_6

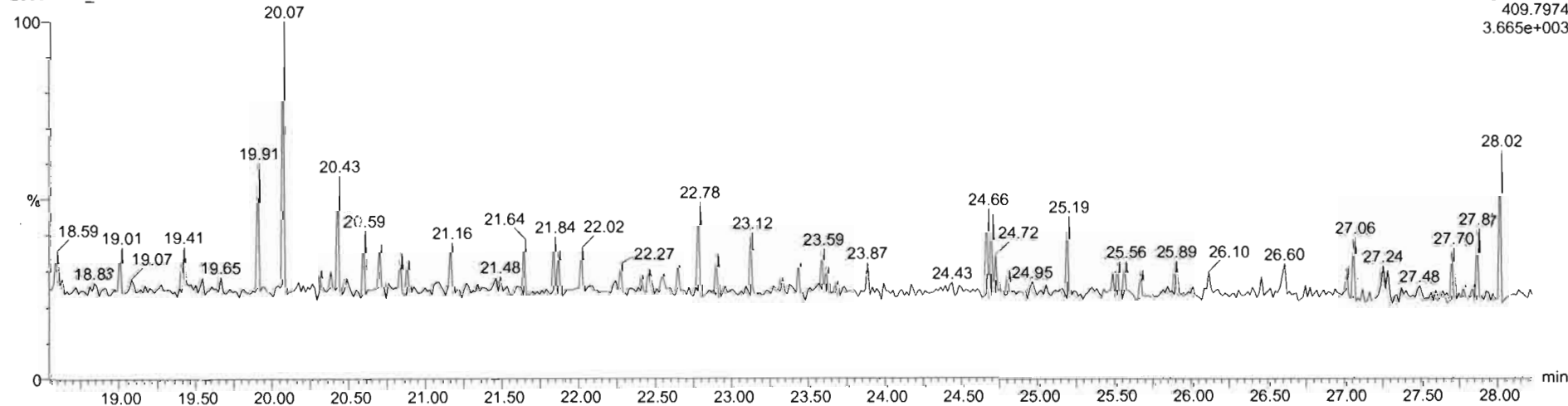


200919R2\_6



DPE6

200919R2\_6

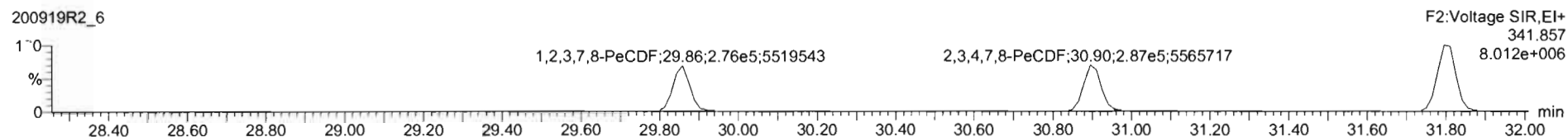
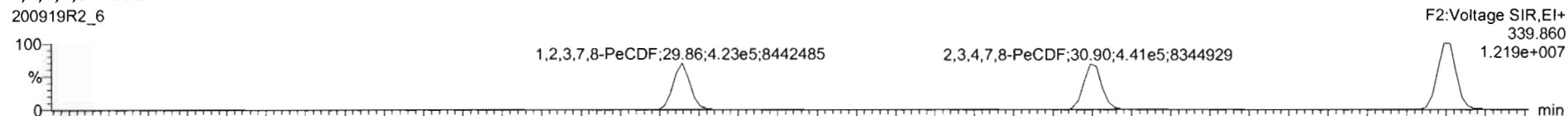


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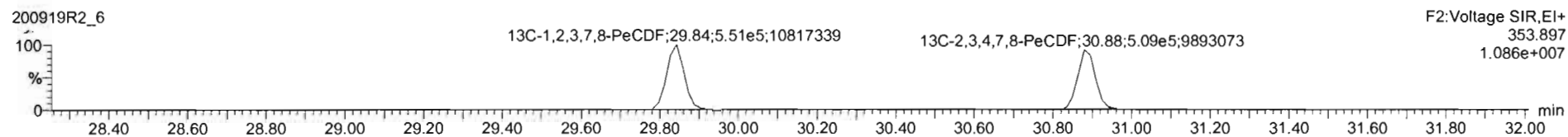
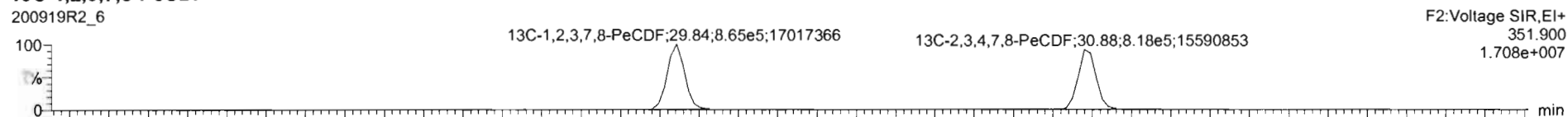
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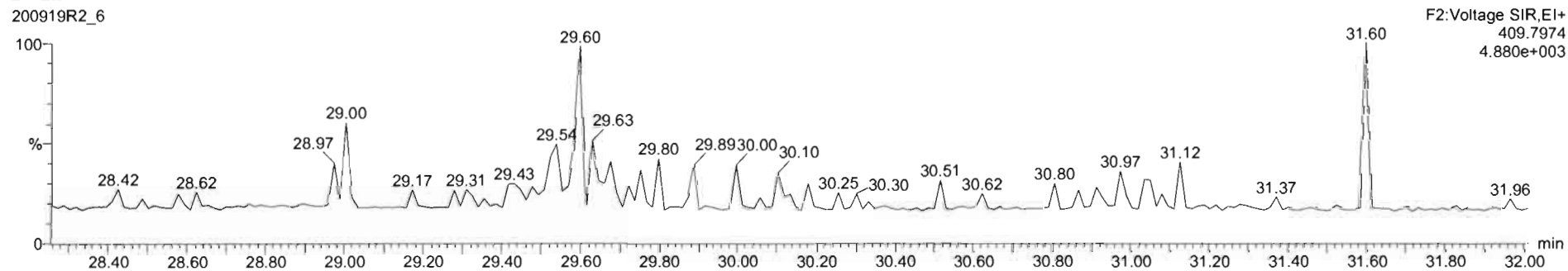
**1,2,3,7,8-PeCDF**



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



**DPE2**

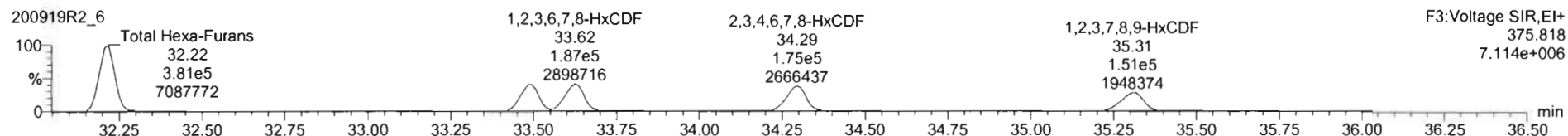
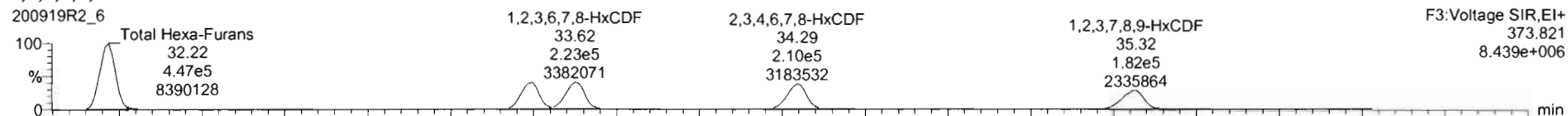


Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

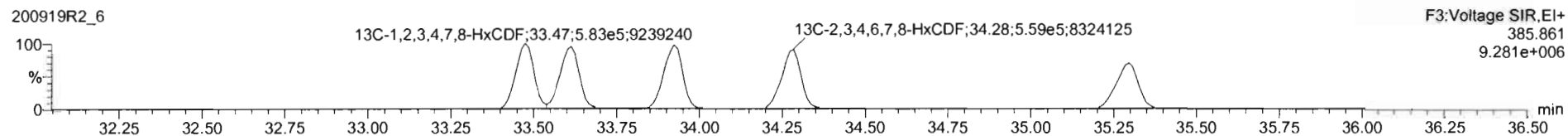
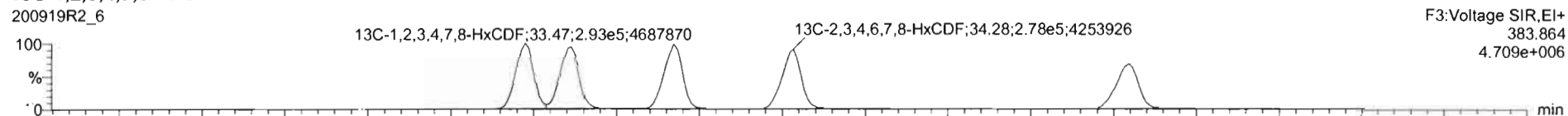
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_6, Date: 19-Sep-2020, Time: 17:21:13, ID: ST200919R2\_6 1613 CS3 20F1105, Description: 1613 CS3 19L2305

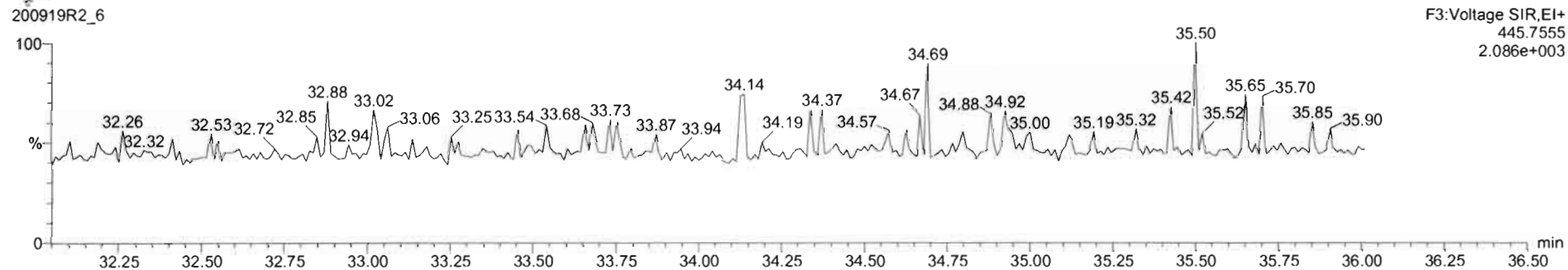
1,2,3,4,7,8-HxCDF



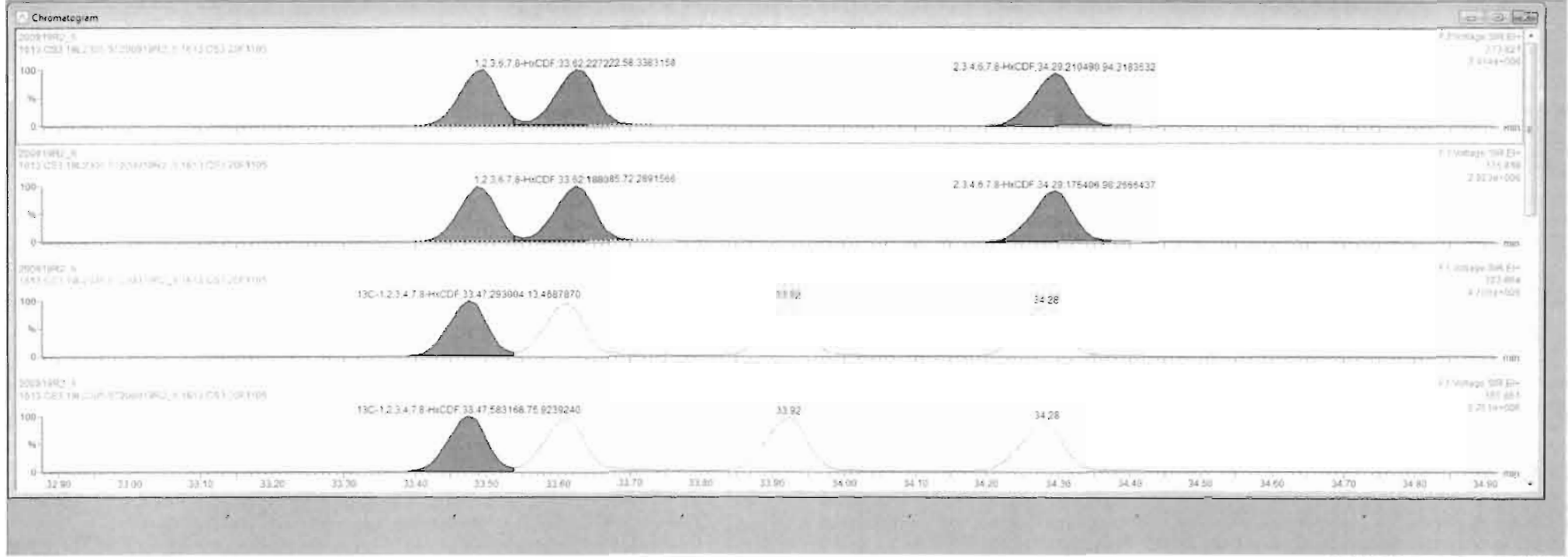
13C-1,2,3,4,7,8-HxCDF



DPE3



#	F	Name	RT	Rel	ym	Area	IS Area	Std. Conc.	%Dev.	%RSD	RDF M.	RDF SD
36	36	13C-1,2,3,4-TCDD	26.74	0.800	NO	1.0690e6	1.0690e6	100.000	0.0	0.000	1.00	0.000
37	37	13C-1,2,3,4-TCDF	24.31	0.789	NO	1.6717e6	1.6717e6	100.000	0.0	0.000	1.00	0.000
38	38	13C-1,2,3,4,8-HxCDF	33.92	0.500	NO	6.9446e5	6.9446e5	100.000	0.0	0.000	1.00	0.000
39	39	Total Tetra-Dioxins				1.2333e6		10.000		8.35	1.02	0.0640
40	40	Total Penta-Dioxins				1.9018e6		50.000		6.12	0.656	0.0596
41	41	Total Hexa-Dioxins				0.0000e0		30.000		0.09	0.808	0.0710
42	42	Total Hepta-Dioxins				6.2833e5		50.000		9.96	2.832	0.0600
43	43	Total Tetra-Furans				1.7041e6		10.000		11.0	0.735	0.0832
44	44	1st Func. Penta-Furans				0.0000e0		50.000		8.98	0.939	0.0756
45	45	Total Penta-Furans				0.0000e0		50.000		0.06	0.939	0.0756
46	46	Total Hexa-Furans				0.0000e0		50.000		10.8	0.870	0.0930
47	47	Total Hepta-Furans				0.0000e0		50.000		11.8	0.891	0.1031
48	48	401 PPK1						x 100				



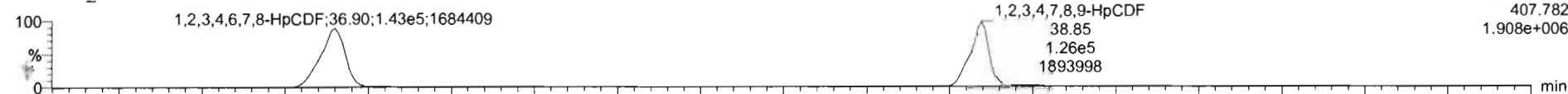
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Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_6, Date: 19-Sep-2020, Time: 17:21:13, ID: ST200919R2\_6 1613 CS3 20F1105, Description: 1613 CS3 19-2305

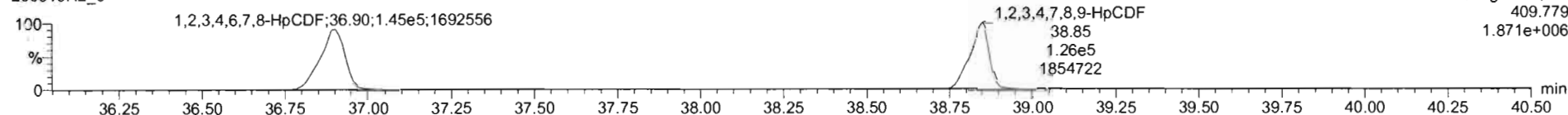
**1,2,3,4,6,7,8-HpCDF**

200919R2\_6



F4:Voltage SIR,EI+  
407.782  
1.908e+006

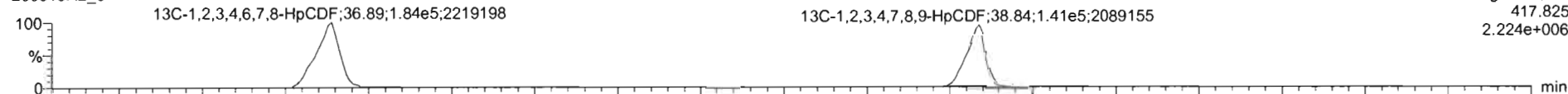
200919R2\_6



F4:Voltage SIR,EI+  
409.779  
1.871e+006

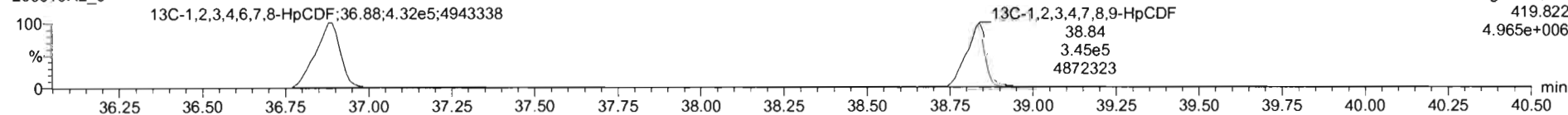
**13C-1,2,3,4,6,7,8-HpCDF**

200919R2\_6



F4:Voltage SIR,EI+  
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2.224e+006

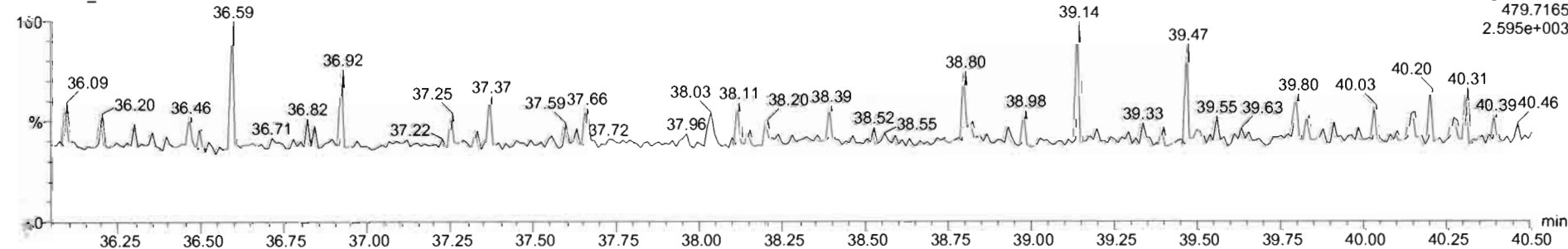
200919R2\_6



F4:Voltage SIR,EI+  
419.822  
4.965e+006

**DPE4**

200919R2\_6



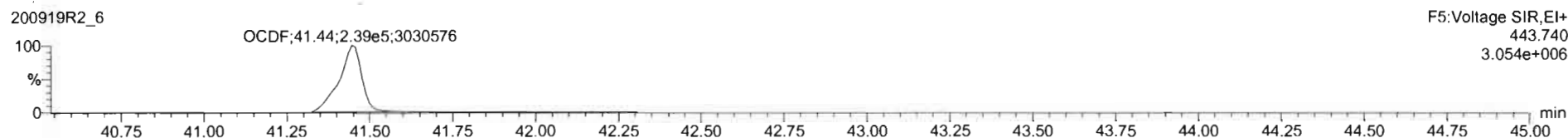
F4:Voltage SIR,EI+  
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2.595e+003

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

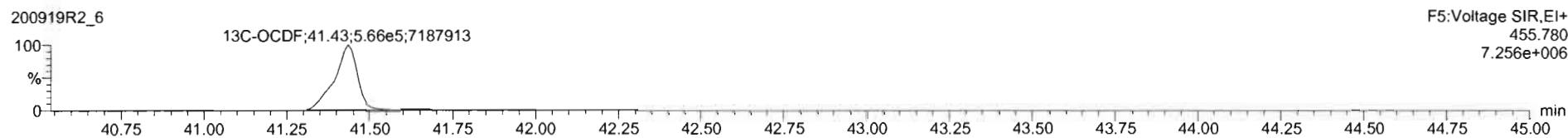
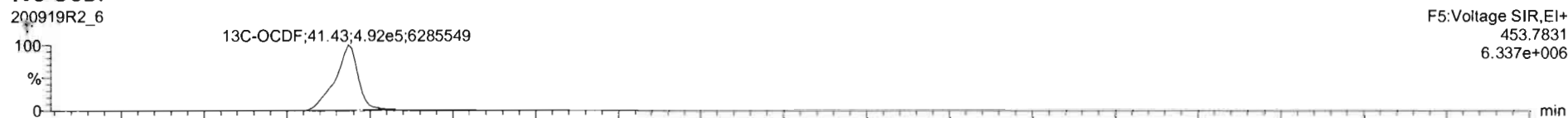
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_6, Date: 19-Sep-2020, Time: 17:21:13, ID: ST200919R2\_6 1613 CS3 20F1105, Description: 1613 CS3 49L2305

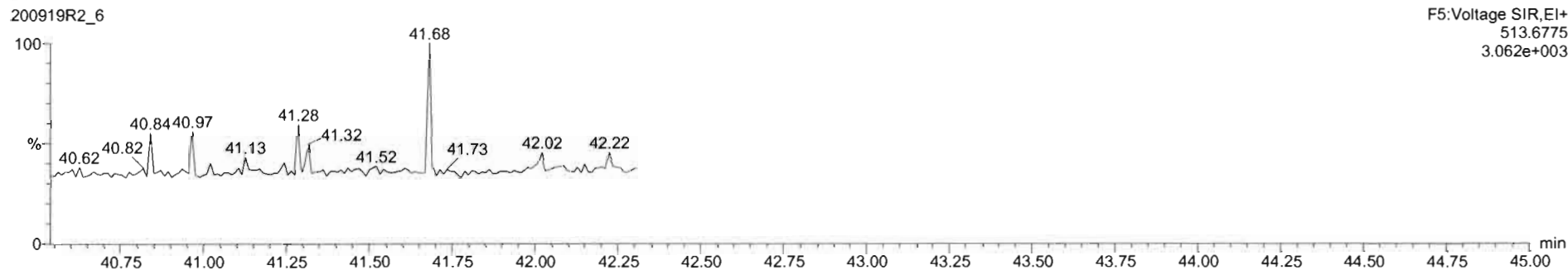
**OCDF**



**13C-OCDF**



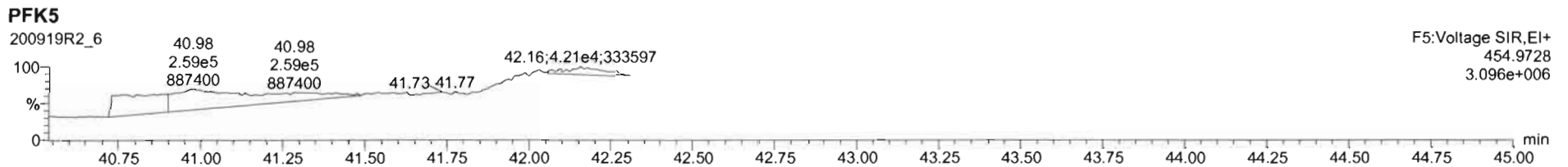
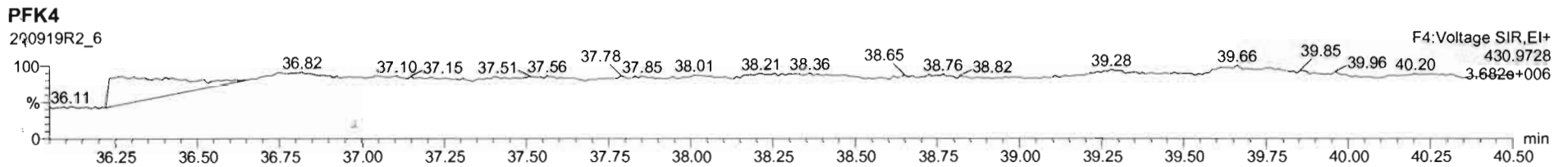
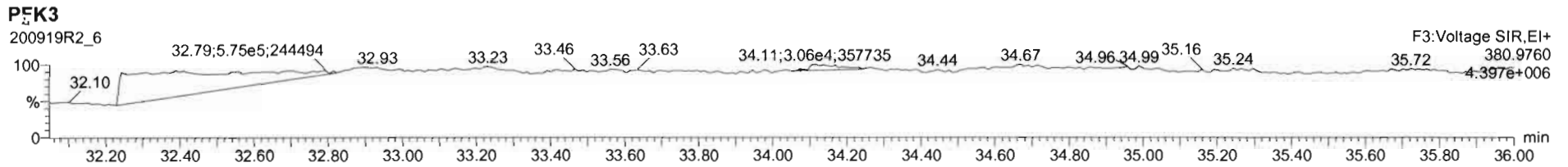
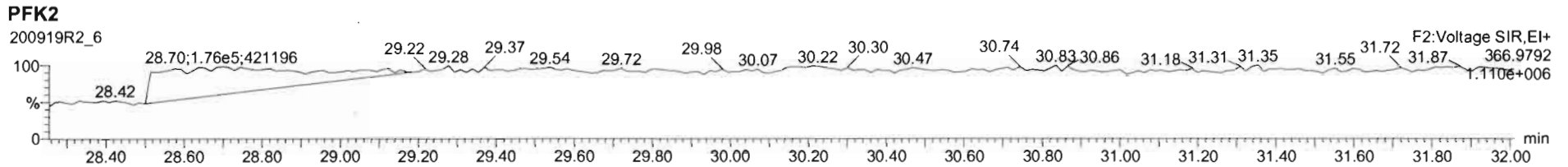
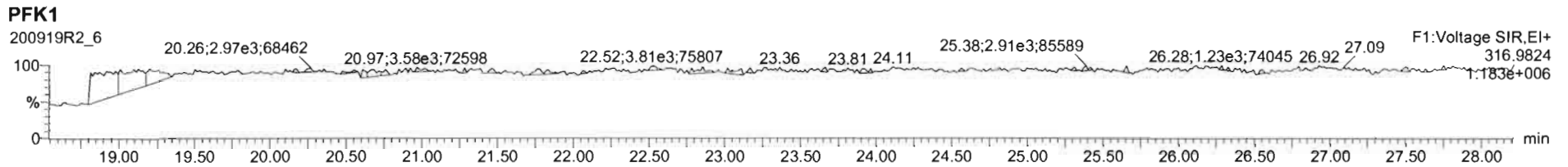
**DPE5**



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_6, Date: 19-Sep-2020, Time: 17:21:13, ID: ST200919R2\_6 1613 CS3 20F1105, Description: 1613 CS3 19L2305



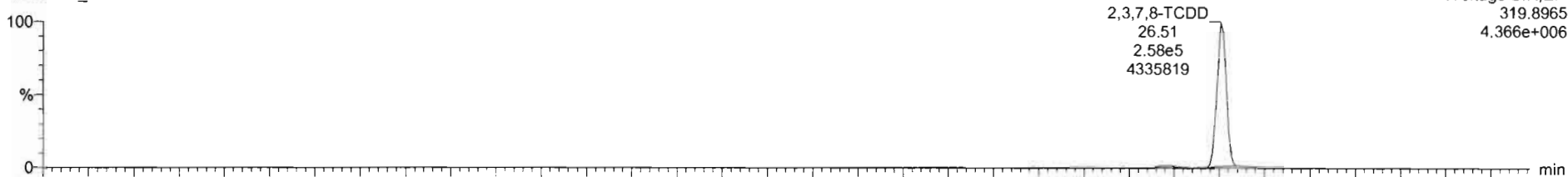
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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

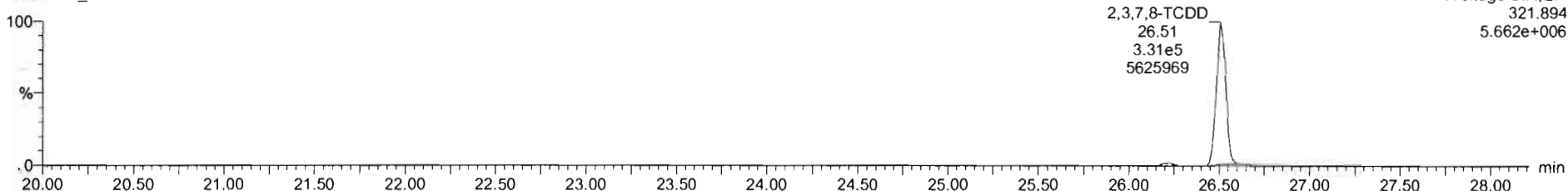
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**2,3,7,8-TCDD**

200919R2\_4



200919R2\_4

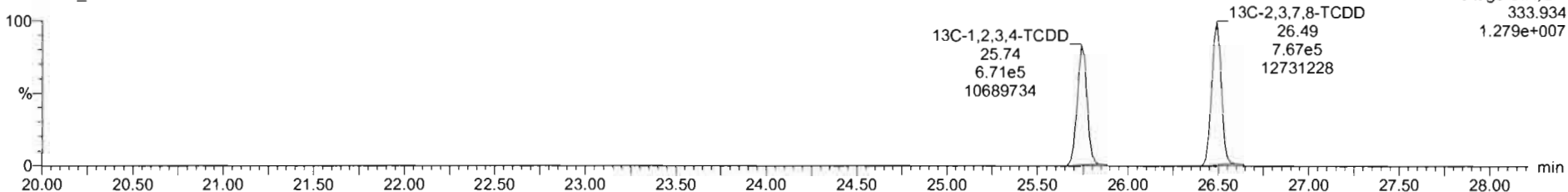


**13C-2,3,7,8-TCDD**

200919R2\_4

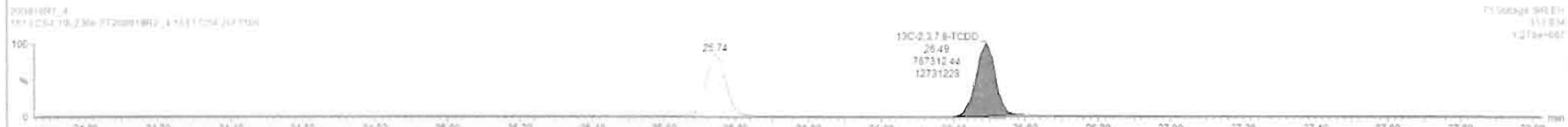


200919R2\_4





#	Name	RT	Ra	Yth	Area	IS Area	Std Conc	%Dev	NRSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.51	0.776	NO	5.9925e5	1.0749e5	40.000	7.3	8.30	1.00	0.0643
2	1,2,3,7,8-PeCDD	31.11	0.626	NO	2.1972e5	1.0932e5	200.000	3.1	6.15	0.860	0.0594
3	1,2,3,4,7,8-HxCDD	34.41	1.221	NO	1.8199e5	7.8596e5	200.000	4.3	8.50	0.593	0.0585
4	1,2,3,6,7,8-HxCDD	34.54	1.236	NO	1.7715e5	8.8556e5	200.000	12.4	7.93	0.865	0.0710
5	1,2,3,7,8,9-HxCDD	34.82	1.217	NO	1.7195e5	8.7199e5	200.000	8.1	8.29	0.908	0.0499
6	1,2,3,4,6,7,8-HpCDD	35.23	1.059	NO	1.2745e5	7.1937e5	200.000	6.9	9.78	0.630	0.0510
7	OCDD	41.16	0.875	NO	2.8943e5	1.1403e5	400.000	9.5	7.78	0.860	0.0571
8	2,3,7,8-TCDF	25.85	0.734	NO	8.1595e5	1.8802e5	40.000	10.7	11.8	0.737	0.0303
9	1,2,3,7,8-PeCDF	29.87	1.548	NO	3.1395e5	1.5758e5	200.000	6.0	6.15	0.840	0.0786
10	1,2,3,4,7,8-PeCDF	30.91	1.533	NO	3.3289e5	1.4795e5	200.000	7.2	3.01	1.05	0.0543
11	1,2,3,4,7,8-HxCDF	33.51	1.188	NO	1.7487e5	5.7452e5	200.000	7.7	10.4	0.632	0.0570
12	1,2,3,6,7,8-HxCDF	33.83	1.187	NO	1.9296e5	3.7799e5	200.000	9.9	9.36	0.903	0.0548
13	1,2,3,4,6,7,8-HpCDF	34.31	1.188	NO	1.7889e5	3.2482e5	200.000	11.0	11.0	0.872	0.0563
14	1,2,3,7,8,9-HxCDF	35.32	1.188	NO	1.5079e5	3.3340e5	200.000	9.7	9.35	0.898	0.0540



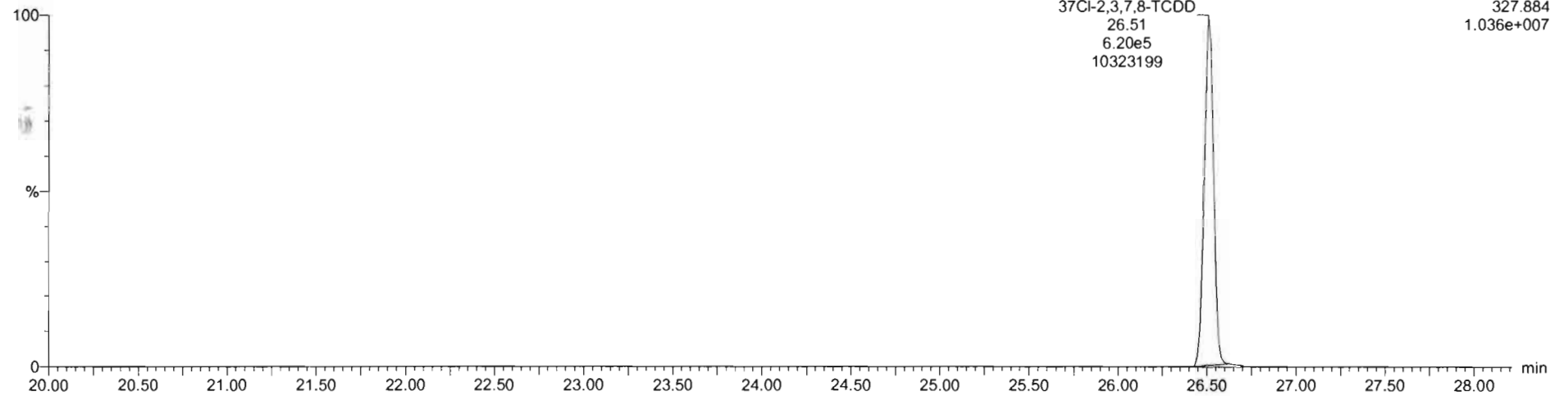
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Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_4, Date: 19-Sep-2020, Time: 15:53:51, ID: ST200919R2\_4 1613 CS4 20F1106, Description: 1613 CS4 ~~101-2900~~

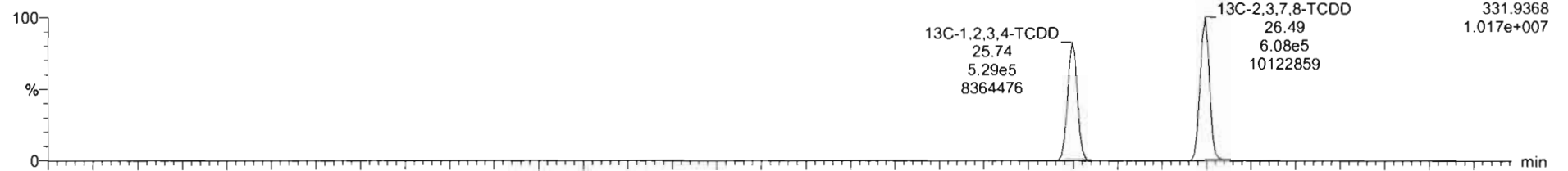
**37Cl-2,3,7,8-TCDD**

200919R2\_4

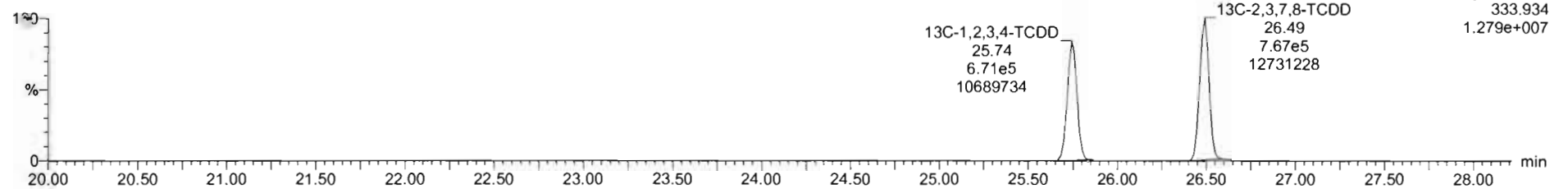


**13C-1,2,3,4-TCDD**

200919R2\_4



200919R2\_4



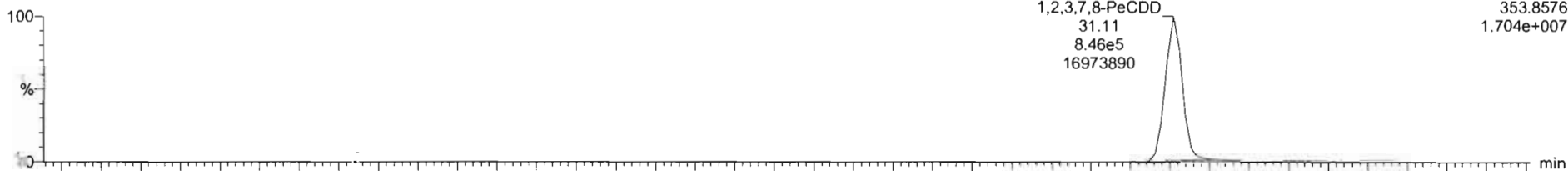
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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

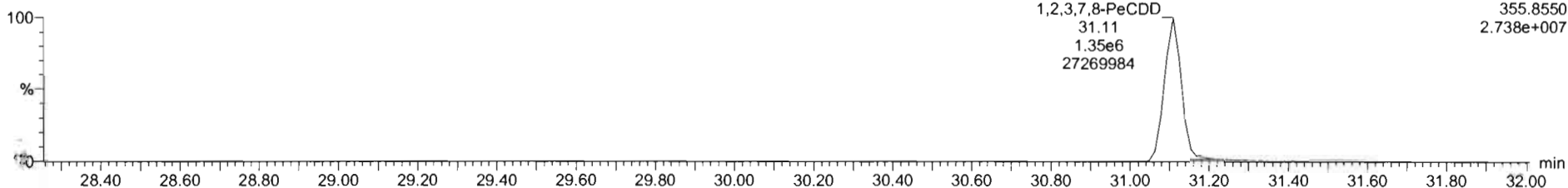
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**1,2,3,7,8-PeCDD**

200919R2\_4

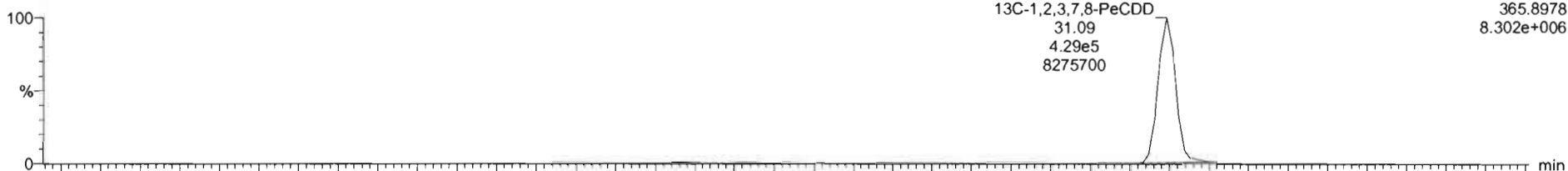


200919R2\_4

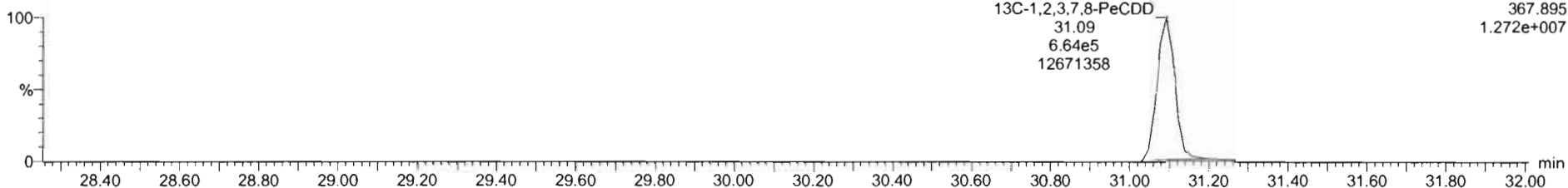


**13C-1,2,3,7,8-PeCDD**

200919R2\_4



200919R2\_4



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

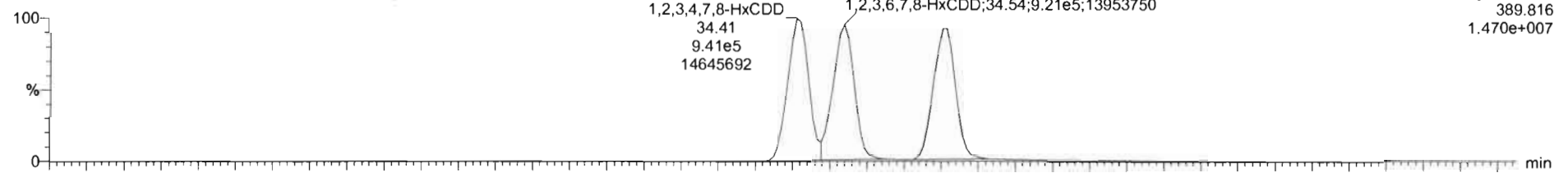
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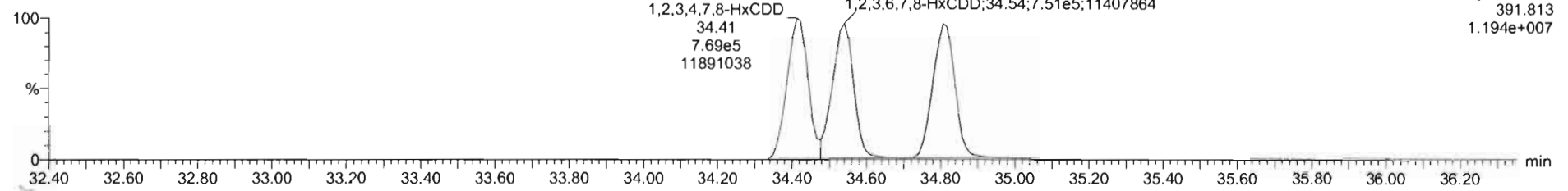
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**1,2,3,4,7,8-HxCDD**

200919R2\_4

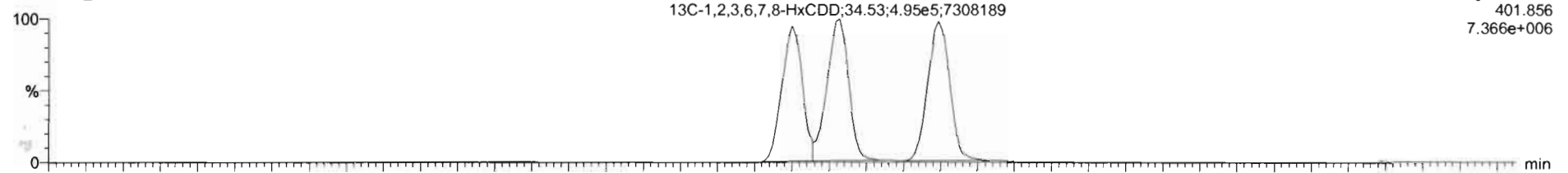


200919R2\_4

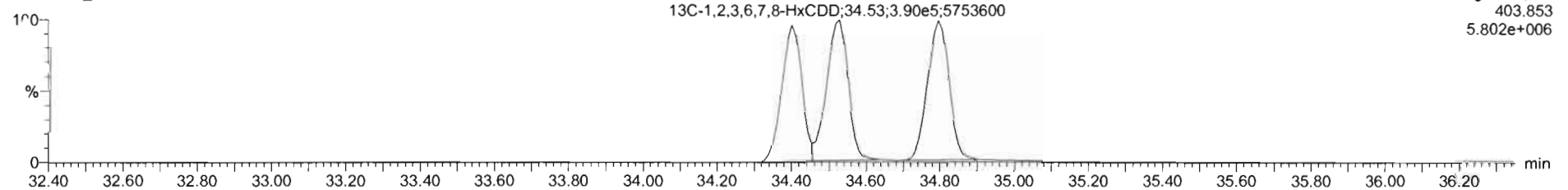


**13C-1,2,3,4,7,8-HxCDD**

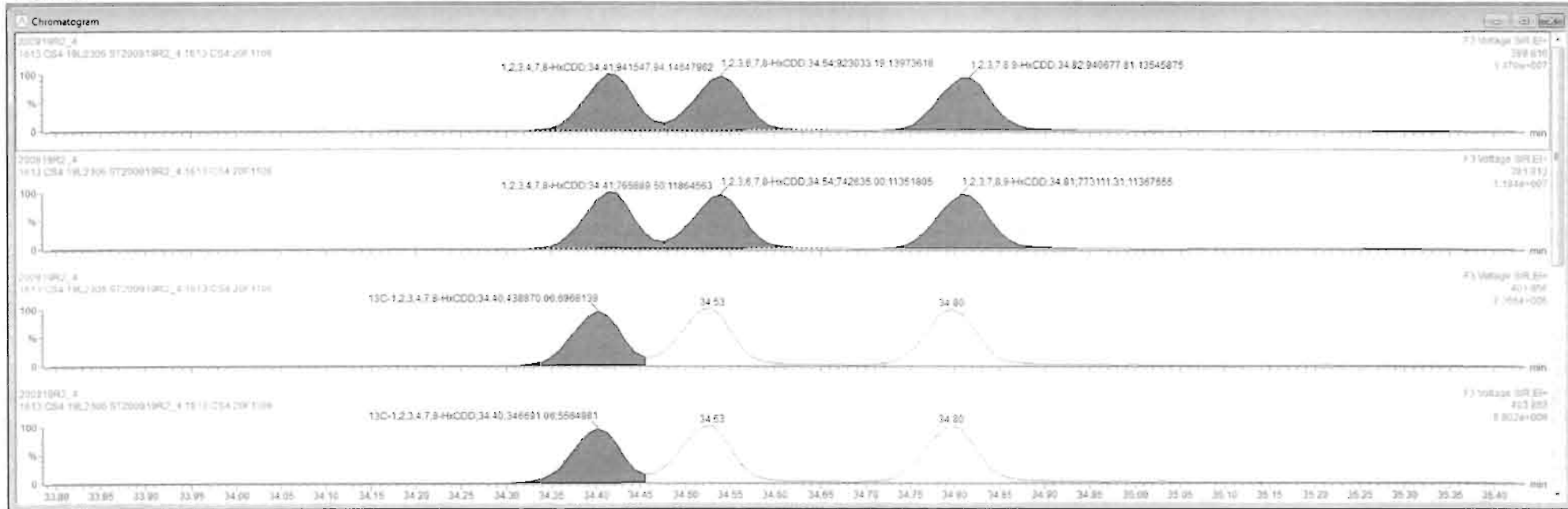
200919R2\_4



200919R2\_4



#	Name	RT	RA	Yn	Area	IS Area	Std. Cond.	%Dev.	%RSD	RRF M	RRF SD
36	13C-1,2,3,4-TCDD	26.74	0.789	NO	1.2000e8	1.2000e8	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	24.31	0.786	NO	1.8851e8	1.8851e8	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,6,8-HxCDF	33.93	0.604	NO	9.8133e5	9.8133e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.3749e8	1.3749e8	46.000		3.35	1.52	0.0048
40	Total Penta-Dioxins				1.9932e8	1.9932e8	200.000		6.13	0.956	0.0686
41	Total Hexa-Dioxins				0.0000e0	0.0000e0	200.000		8.09	0.806	0.0718
42	Total Hepta-Dioxins				7.2316e5	7.2316e5	200.000		9.96	0.820	0.0020
43	Total Tetra-Furans				1.6802e8	1.6802e8	40.000		11.3	0.730	0.0030
44	1st Func. Penta-Furans				0.0000e0	0.0000e0	200.000		8.06	0.938	0.0756
45	Total Penta-Furans				0.0000e0	0.0000e0	200.000		3.06	0.929	0.0756
46	Total Hexa-Furans				0.0000e0	0.0000e0	200.000		10.8	0.870	0.0930
47	Total Hepta-Furans				0.0000e0	0.0000e0	200.000		11.6	0.691	0.103
48	Blank						1.000				



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

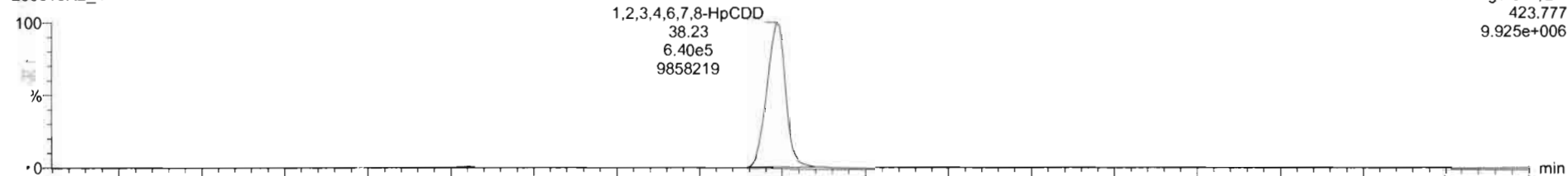
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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

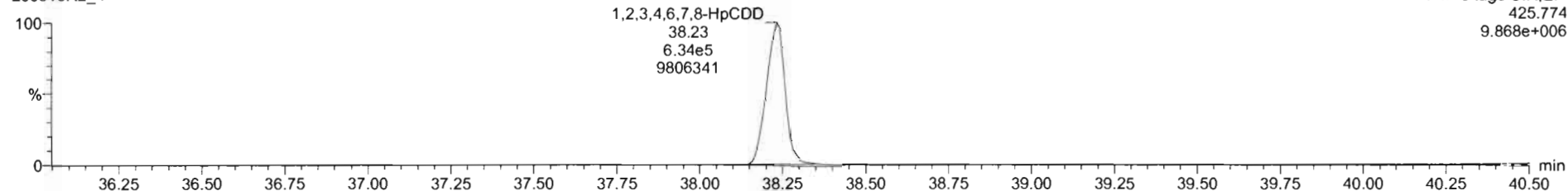
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**1,2,3,4,6,7,8-HpCDD**

200919R2\_4

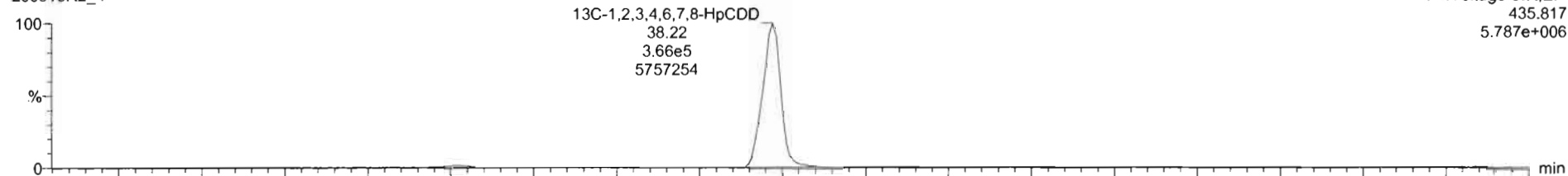


200919R2\_4

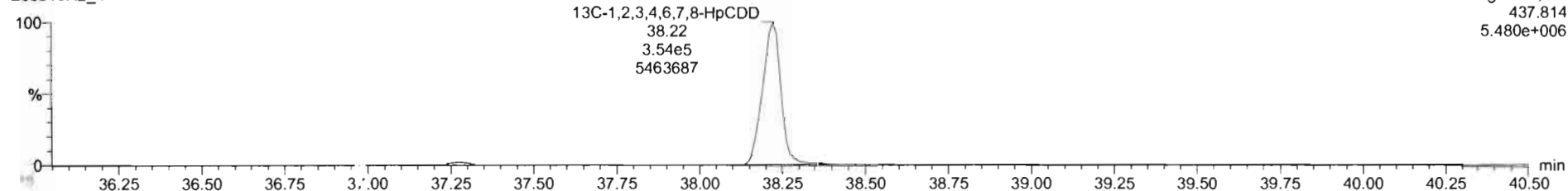


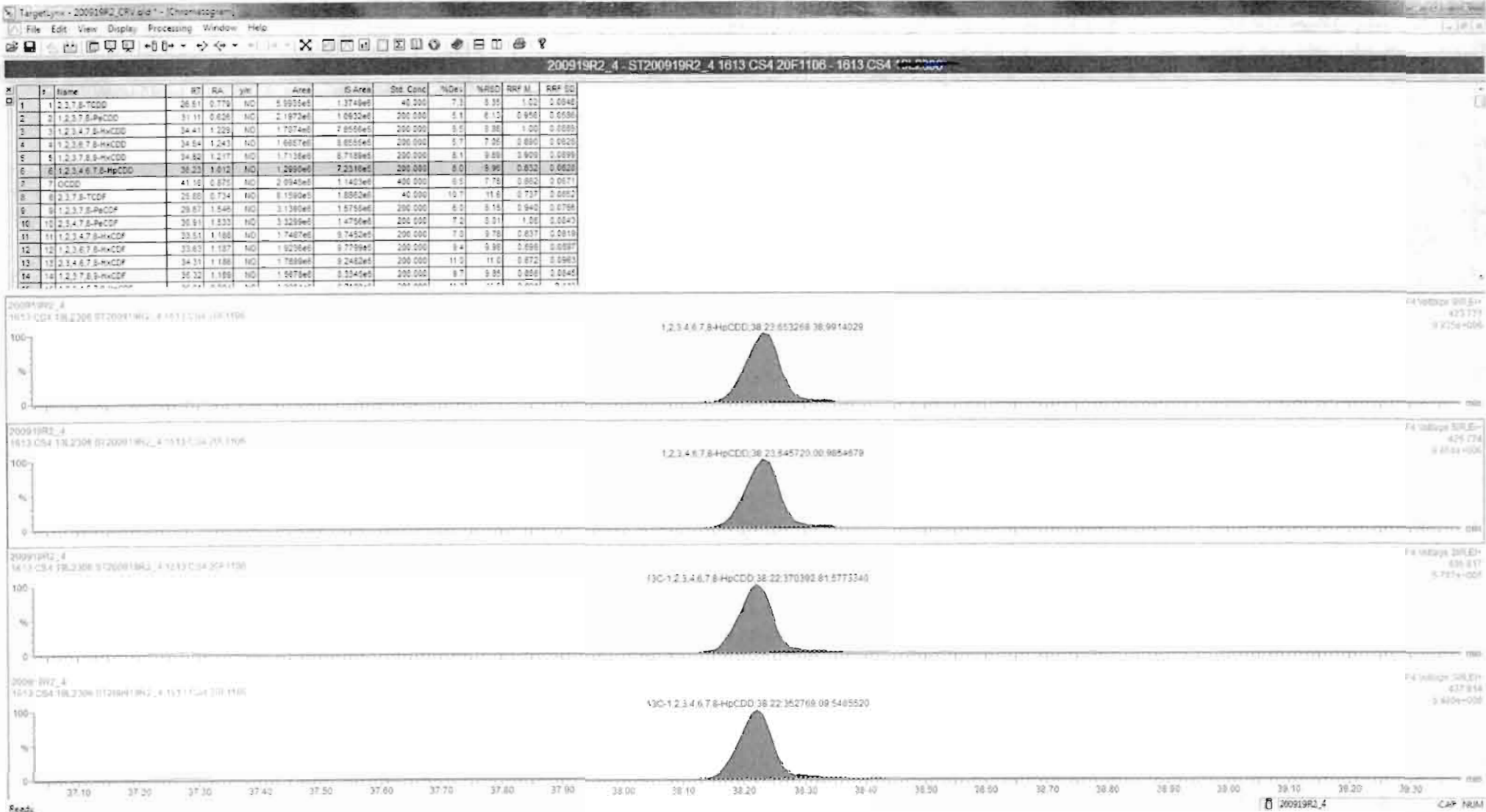
**13C-1,2,3,4,6,7,8-HpCDD**

200919R2\_4



200919R2\_4





Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

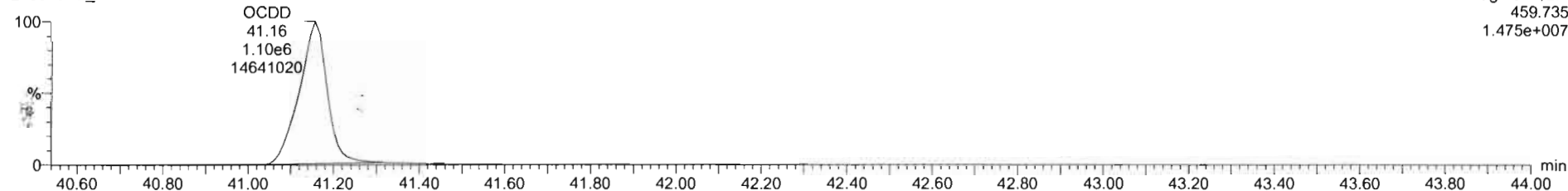
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**OCDD**

200919R2\_4

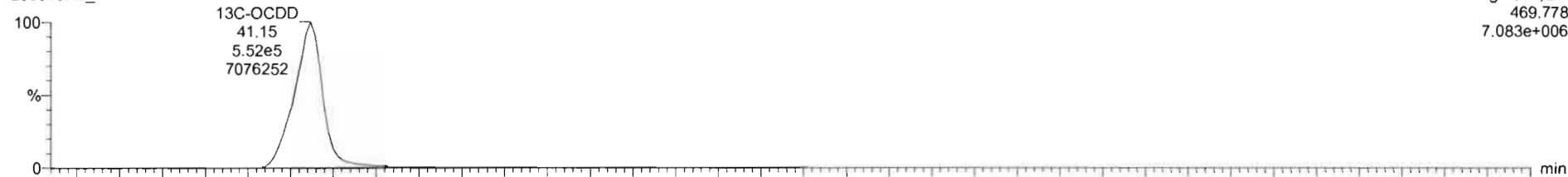


200919R2\_4

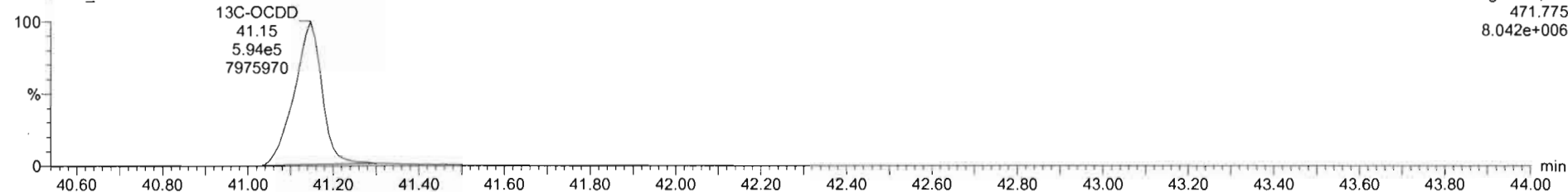


**13C-OCDD**

200919R2\_4



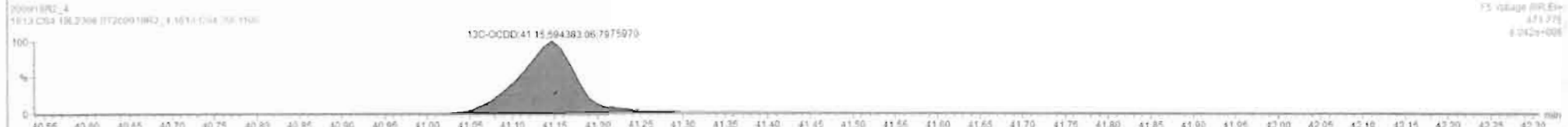
200919R2\_4





200919R2\_4 - ST200919R2\_4 1613 CS4 20F1106 - 1613 CS4 10I.D.MVA

#	Name	RT	RA	Yin	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.81	0.779	NO	5.9938e5	1.3749e6	40.000	7.3	8.35	1.02	0.0546
2	1,2,3,7,8-PeCDD	31.11	0.626	NO	2.1973e6	1.0852e6	200.000	8.1	6.13	0.959	0.0586
3	1,2,3,4,7,8-HxCDD	34.41	1.229	NO	1.7074e6	7.0556e6	200.000	8.9	9.88	1.00	0.0589
4	1,2,3,6,7,8-HxCDD	34.64	1.243	NO	1.6657e6	8.8058e6	200.000	5.7	7.06	0.893	0.0620
5	1,2,3,7,8,9-HxCDD	34.82	1.217	NO	1.7135e6	8.7139e6	200.000	8.1	9.88	0.909	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.23	1.012	NO	1.2995e6	7.2216e6	200.000	8.0	9.90	0.832	0.0626
7	OCDD	41.18	0.678	NO	2.0845e6	1.1403e6	400.000	6.5	7.78	0.862	0.0671
8	1,2,3,7,8-TCDF	26.85	0.734	NO	6.1890e5	1.8862e6	40.000	10.7	11.6	0.737	0.0552
9	1,2,3,7,8-PeCDF	29.87	1.548	NO	3.1399e6	1.8758e6	200.000	6.0	8.10	0.940	0.0798
10	1,2,3,4,7,8-PeCDF	30.81	1.633	NO	3.3289e6	1.4756e6	200.000	7.2	9.21	1.08	0.0843
11	1,2,3,4,7,8-HxCDF	33.51	1.188	NO	1.7467e6	8.7452e6	200.000	7.0	9.78	0.837	0.0818
12	1,2,3,6,7,8-HxCDF	33.63	1.187	NO	1.9239e6	8.7739e6	200.000	9.4	9.98	0.889	0.0837
13	1,2,3,4,6,7,8-HpCDF	34.21	1.186	NO	1.7699e6	9.2482e6	200.000	11.0	11.0	0.872	0.0963
14	1,2,3,7,8,9-HxCDF	35.32	1.189	NO	1.5879e6	8.3342e6	200.000	9.7	9.85	0.858	0.0845



Reax: 200919R2\_4 CAP NUM

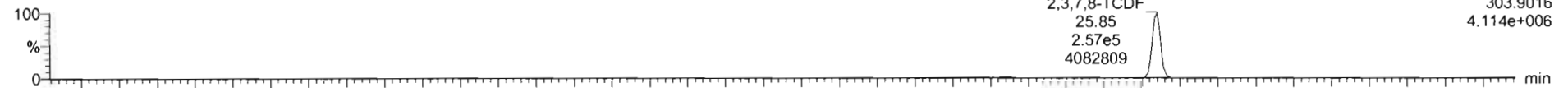
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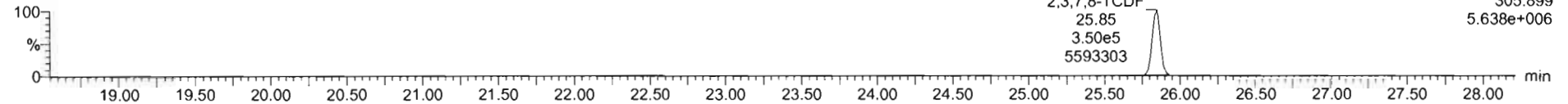
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**2,3,7,8-TCDF**

200919R2\_4

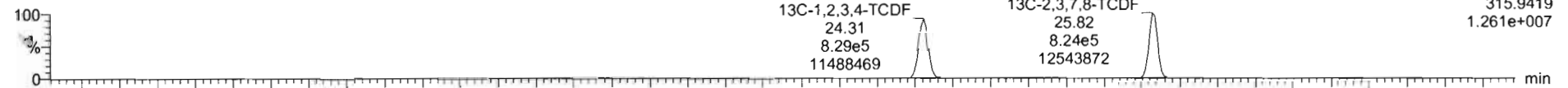


200919R2\_4

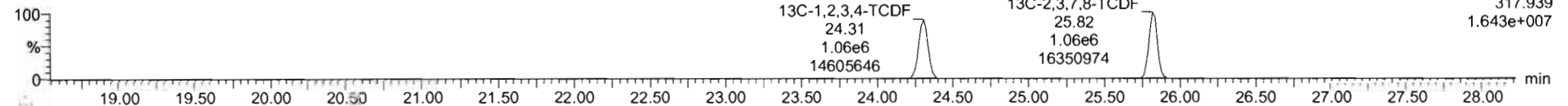


**13C-2,3,7,8-TCDF**

200919R2\_4

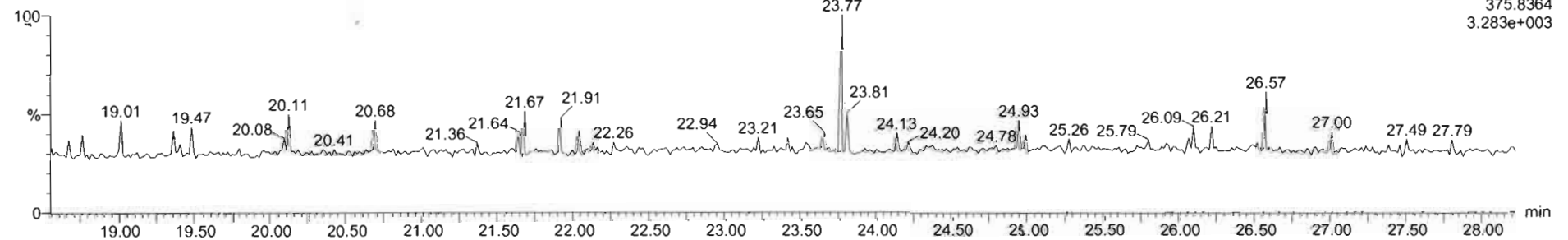


200919R2\_4

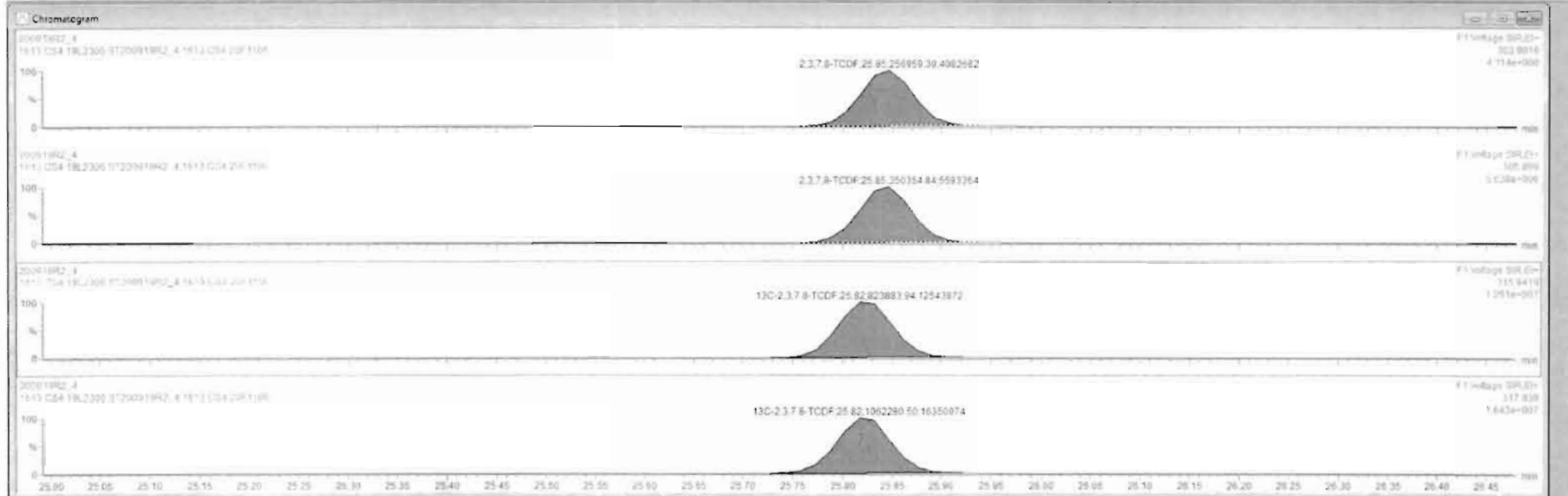


**DPE1**

200919R2\_4



#	Name	RT	RA	Y/N	Area	ID Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
36	13C-1,2,3,4-TCDF	24.74	0.759	NO	1.2000e8	1.2000e8	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	24.31	0.755	NO	1.6051e8	1.6051e8	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,6,8-HxCDF	33.93	0.504	NO	9.6133e5	9.6133e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.3749e6		40.000		0.35	1.02	0.00e0
40	Total Penta-Dioxins				1.6932e6		200.000		6.12	0.956	0.0596
41	Total Hexa-Dioxins				0.0000e0		200.000		0.00	0.000	0.0718
42	Total Hepta-Dioxins				7.2316e5		200.000		0.96	0.832	0.0020
43	Total Tetra-Furans				1.8662e6		40.000		11.3	0.735	0.0630
44	1st Func. Penta-Furans				0.0000e0		200.000		0.00	0.939	0.0796
45	Total Penta-Furans				0.0000e0		200.000		0.00	0.929	0.0759
46	Total Hexa-Furans				0.0000e0		200.000		10.8	0.870	0.0538
47	Total Hepta-Furans				0.0000e0		200.000		11.8	0.891	0.103
48	47 PFK1						1.000				



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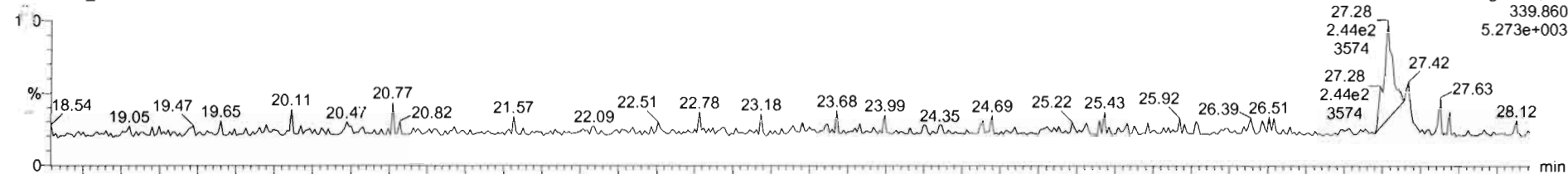
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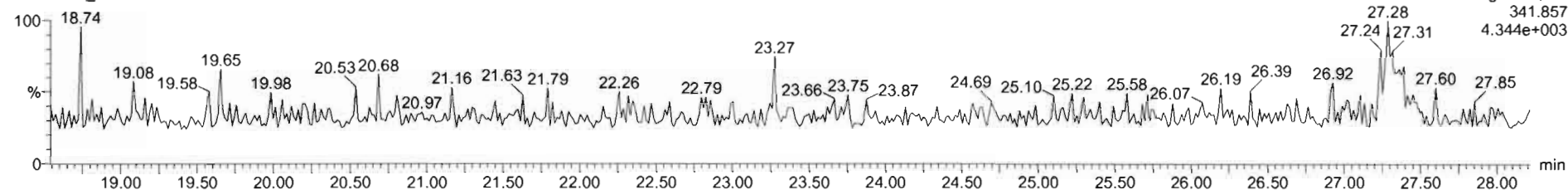
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1st Func. Penta-Furans

200919R2\_4

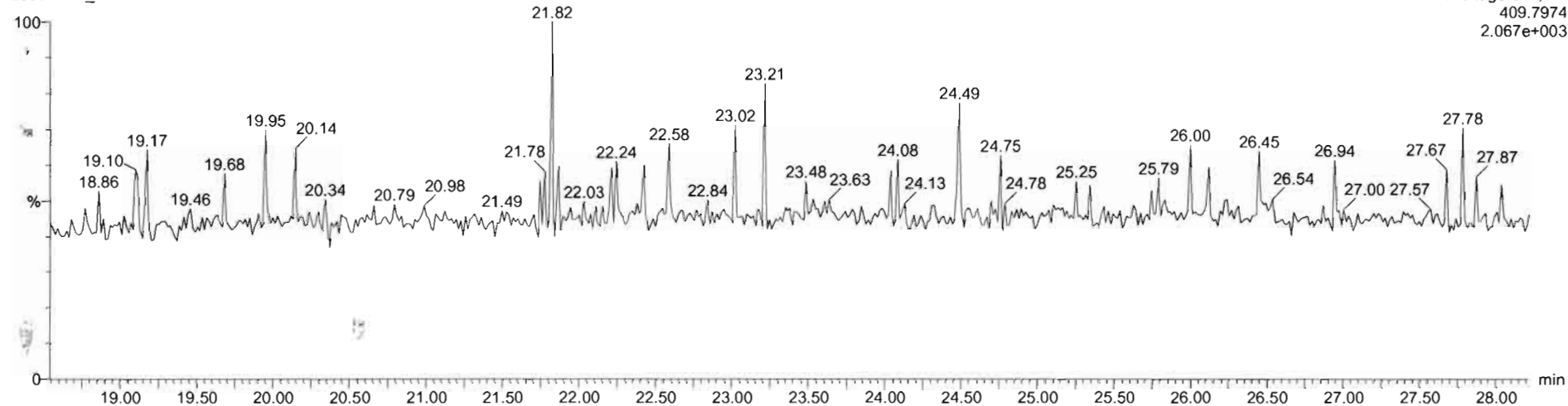


200919R2\_4



DPE6

200919R2\_4

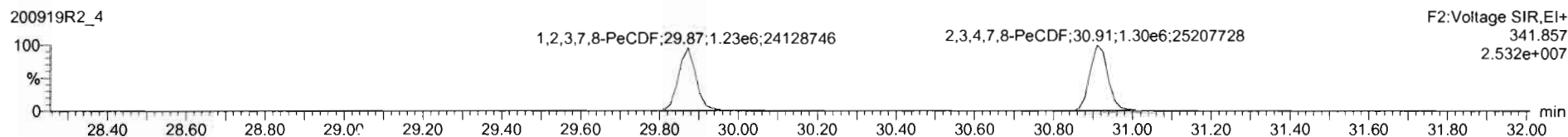
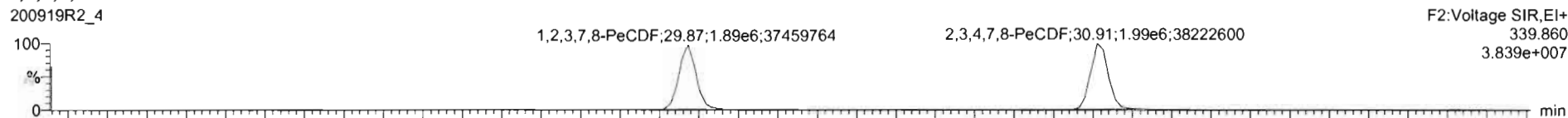


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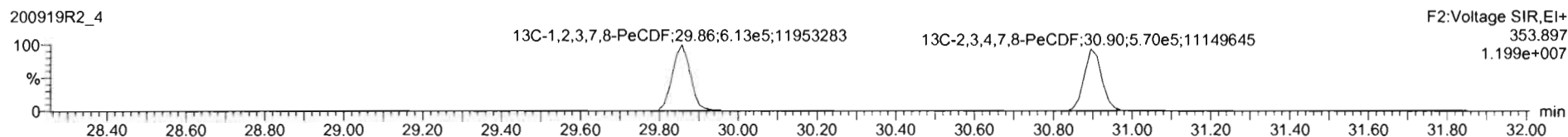
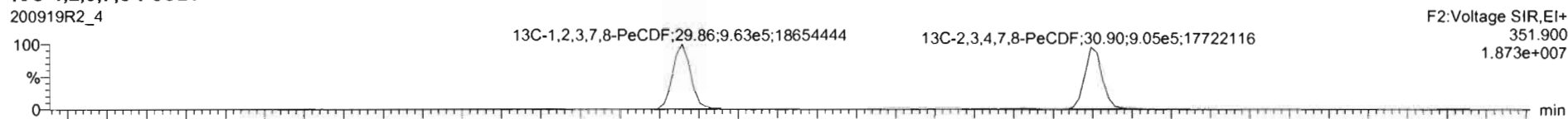
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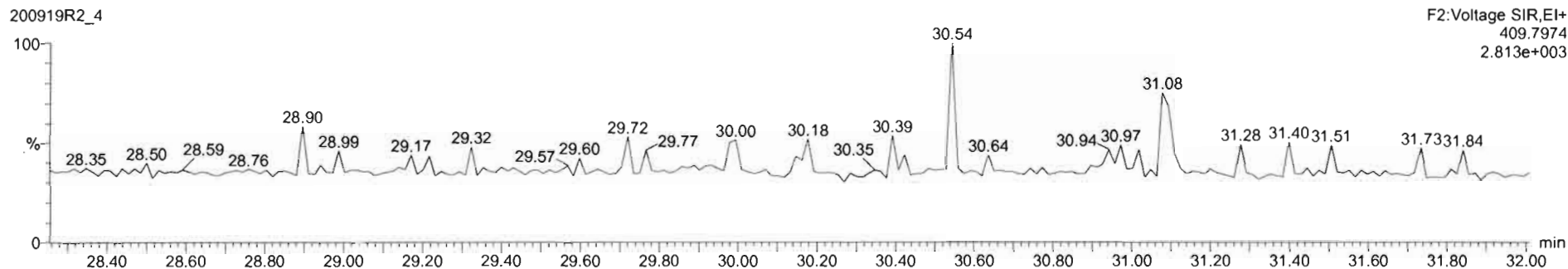
**1,2,3,7,8-PeCDF**



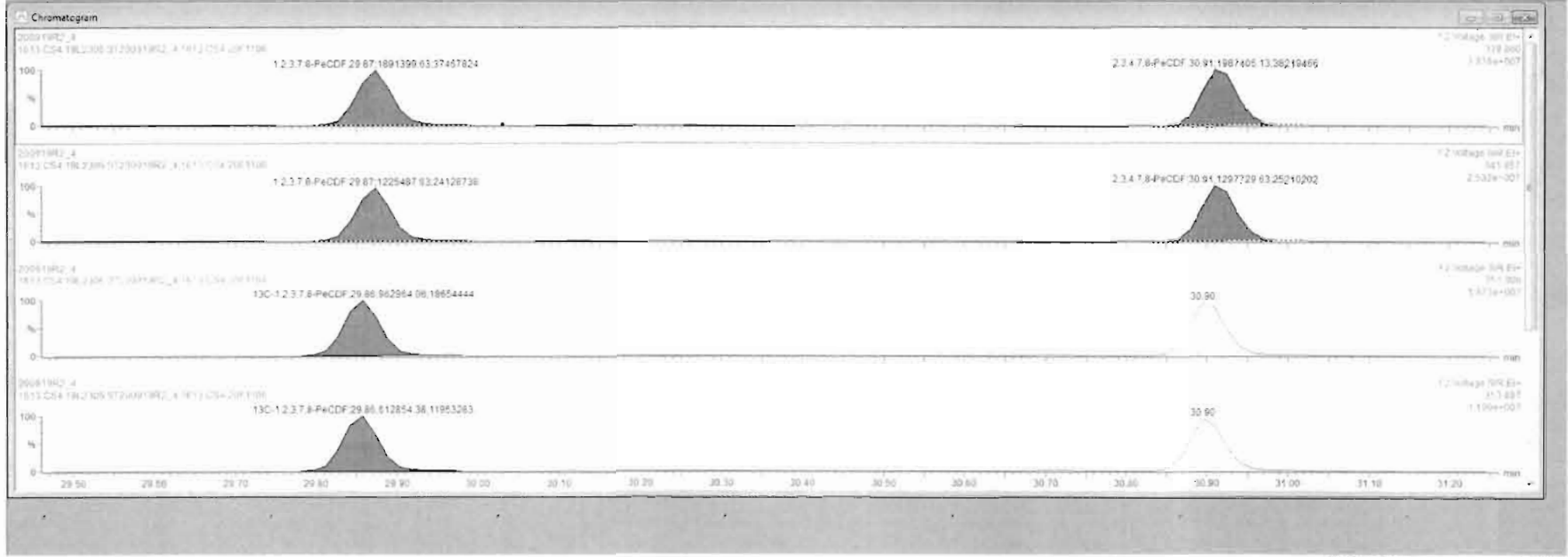
**13C-1,2,3,7,8-PeCDF**



**DPE2**



#	Name	RT	RA	y/n	Area	IS Area	Std. Conc.	%Dev	NRSD	RRF M	RRF SD
36	13C-1,2,3,4-TCDF	29.74	0.799	ND	1.2000e8	1.2000e8	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	29.31	0.795	ND	1.6951e8	1.6951e8	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,6-BzCDF	30.93	0.804	ND	9.8133e5	9.8133e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.3749e8	1.3749e8	40.000		0.36	1.02	0.0040
40	Total Penta-Dioxins				1.6932e8	1.6932e8	200.000		6.13	0.99	0.0698
41	Total Hexa-Dioxins				0.0030e0	0.0030e0	200.000		0.09	0.88	0.0718
42	Total Hepta-Dioxins				7.2316e5	7.2316e5	200.000		0.96	0.83	0.0029
43	Total Tetra-Furans				1.8862e6	1.8862e6	40.000		11.7	0.73	0.0812
44	1st Func. Penta-Furans				0.0030e0	0.0030e0	200.000		0.38	0.93	0.0756
45	Total Penta-Furans				0.0030e0	0.0030e0	200.000		0.00	0.93	0.0790
46	Total Hexa-Furans				0.0030e0	0.0030e0	200.000		10.8	0.87	0.0938
47	Total Hepta-Furans				0.0030e0	0.0030e0	200.000		11.8	0.81	0.103
48	2nd Func.						1.000				

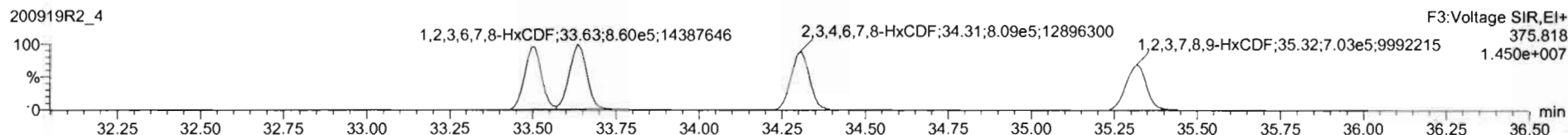
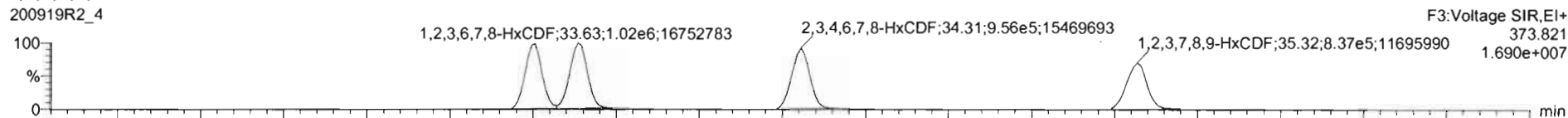


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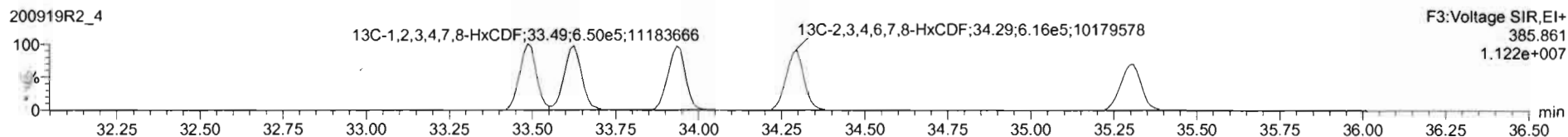
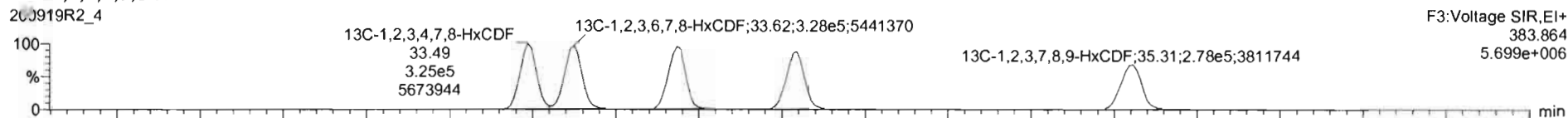
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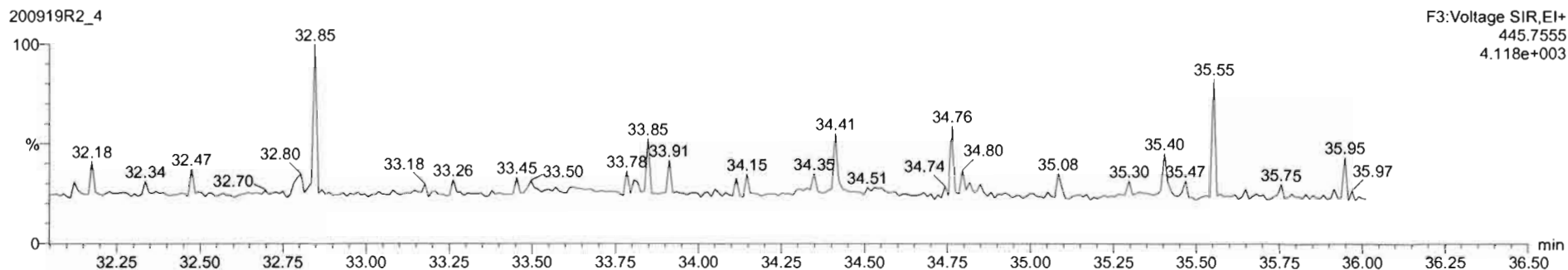
1,2,3,4,7,8-HxCDF



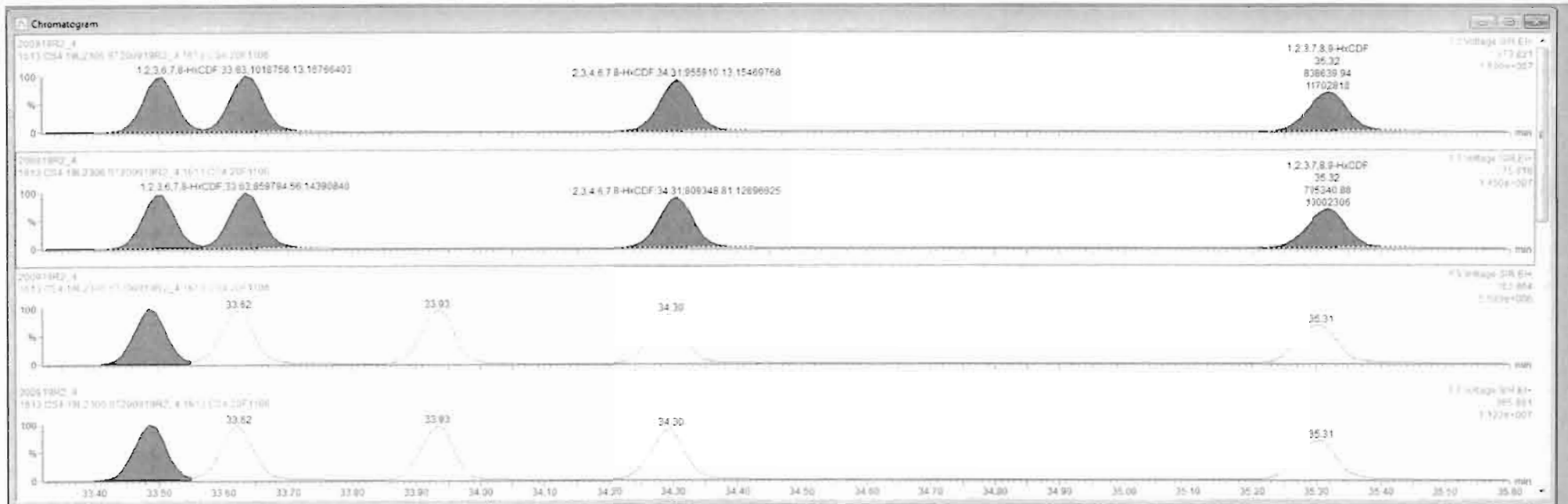
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	RT	RA	YR	Area	IS Area	Exc Conc	%Dev	%RSD	RRF M	RRF SD
36	13C-1,2,3,4-TCDD	26.74	0.789	NO	1.200e6	1.200e6	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	24.31	0.780	NO	1.881e6	1.881e6	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,6-HxCDF	33.93	0.504	NO	9.813e5	9.813e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.374e6		40.000		0.35	1.02	0.0648
40	Total Penta-Dioxins				1.093e6		200.000		0.13	0.959	0.0596
41	Total Hexa-Dioxins				5.000e0		200.000		0.09	0.800	0.0718
42	Total Hepta-Dioxins				7.231e5		200.000		9.99	0.832	0.0320
43	Total Tetra-Furans				1.880e6		40.000		11.0	0.730	0.0312
44	1st Func. Penta-Furans				0.000e0		200.000		0.06	0.939	0.0756
45	Total Penta-Furans				0.000e0		200.000		0.06	0.939	0.0756
46	Total Hexa-Furans				0.000e0		200.000		10.8	0.870	0.0930
47	Total Hepta-Furans				0.000e0		200.000		11.6	0.891	0.103
48	41 PPK1						1.000				





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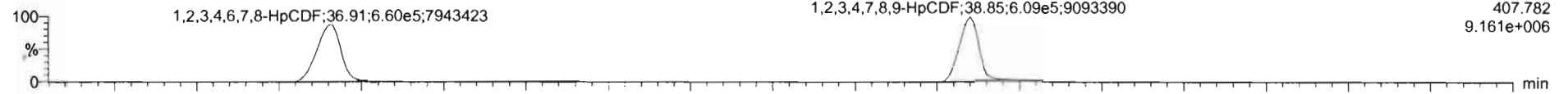
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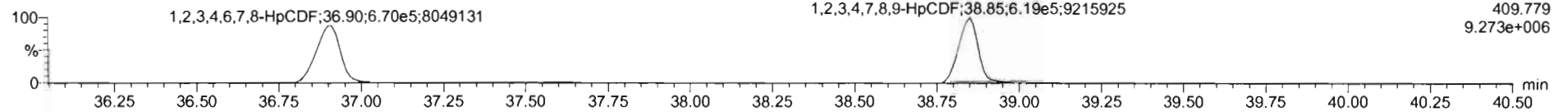
**1,2,3,4,6,7,8-HpCDF**

200919R2\_4



F4: Voltage SIR, EI+  
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9.161e+006

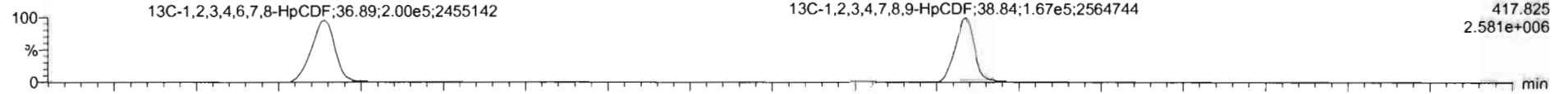
200919R2\_4



F4: Voltage SIR, EI+  
409.779  
9.273e+006

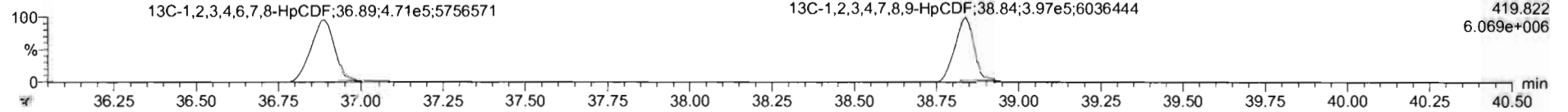
**13C-1,2,3,4,6,7,8-HpCDF**

200919R2\_4



F4: Voltage SIR, EI+  
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2.581e+006

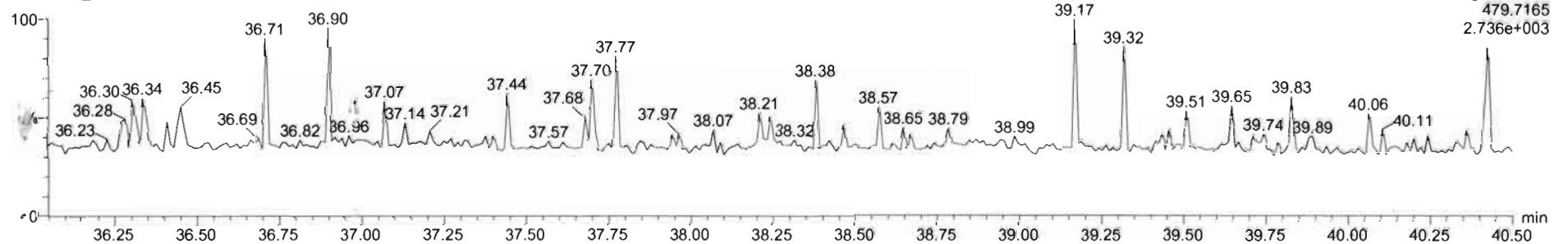
200919R2\_4



F4: Voltage SIR, EI+  
419.822  
6.069e+006

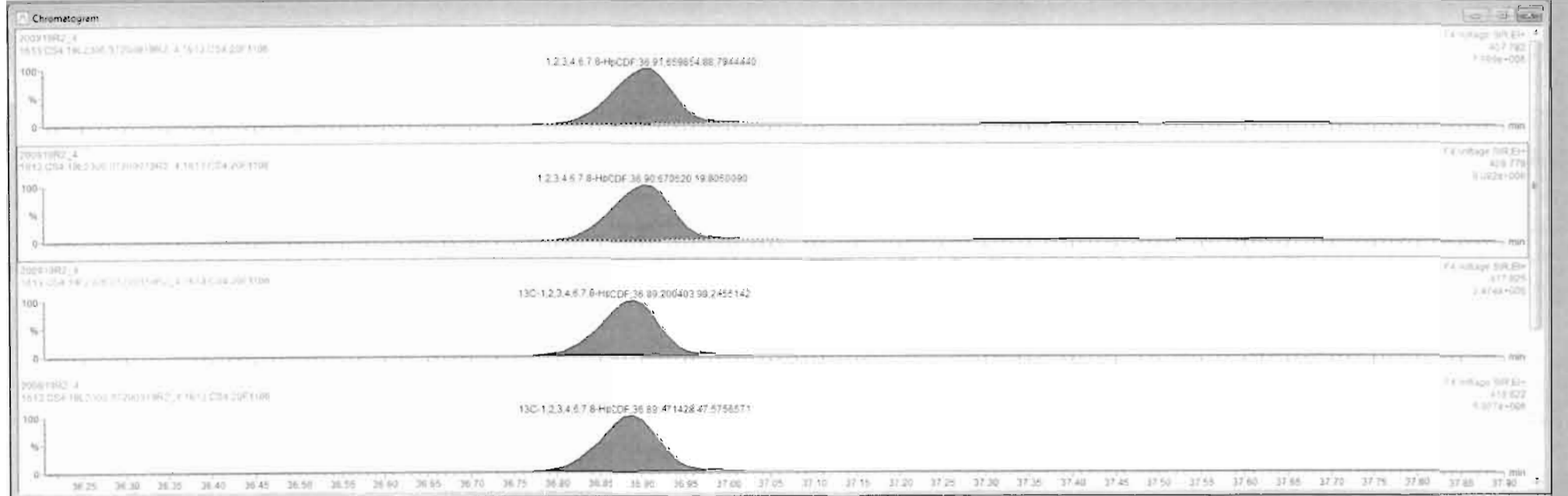
**DPE4**

200919R2\_4



F4: Voltage SIR, EI+  
479.7165  
2.736e+003

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
36	13C-1,2,3,4-TCDD	26.74	0.759	ND	1.2000e6	1.2000e6	100.000	0.0	0.000	1.00	0.000
37	13C-1,2,3,4-TCDF	24.31	0.785	ND	1.8851e6	1.8851e6	100.000	0.0	0.000	1.00	0.000
38	13C-1,2,3,4,6,8-HxCDF	33.93	0.504	ND	9.8133e5	9.8133e5	100.000	0.0	0.000	1.00	0.000
39	Total Tetra-Dioxins				1.3749e6		40.000		0.35	1.00	0.0040
40	Total Penta-Dioxins				1.0032e6		200.000		0.13	0.956	0.0036
41	Total Hexa-Dioxins				0.0000e0		200.000		0.29	0.856	0.0718
42	Total Hepta-Dioxins				7.2316e5		200.000		9.96	0.932	0.0020
43	Total Tetra-Furans				1.6862e6		40.000		11.0	0.735	0.0010
44	1st Func. Penta-Furans				0.0000e0		200.000		6.36	0.936	0.0756
45	Total Penta-Furans				0.0000e0		200.000		0.56	0.939	0.0750
46	Total Hexa-Furans				0.0000e0		200.000		10.8	0.870	0.0930
47	Total Hepta-Furans				0.0000e0		200.000		11.6	0.851	0.102
48	1st Fxnt						1.000				



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

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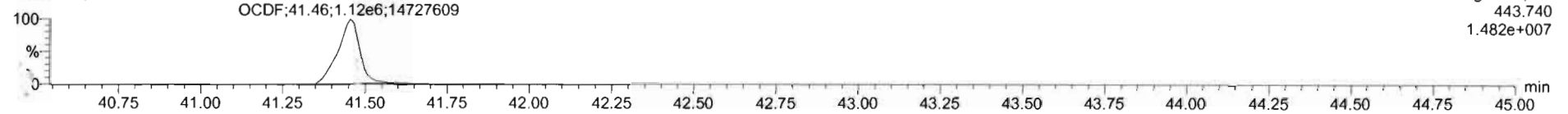
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**OCDF**

200919R2\_4



200919R2\_4

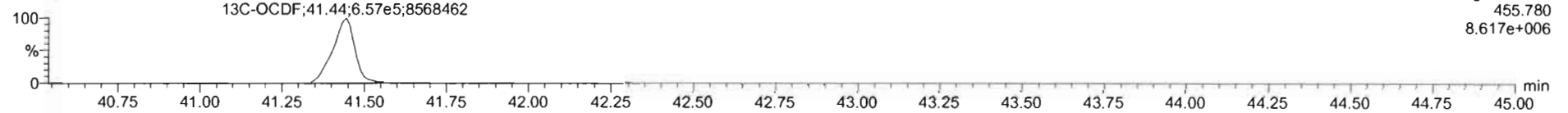


**13C-OCDF**

200919R2\_4

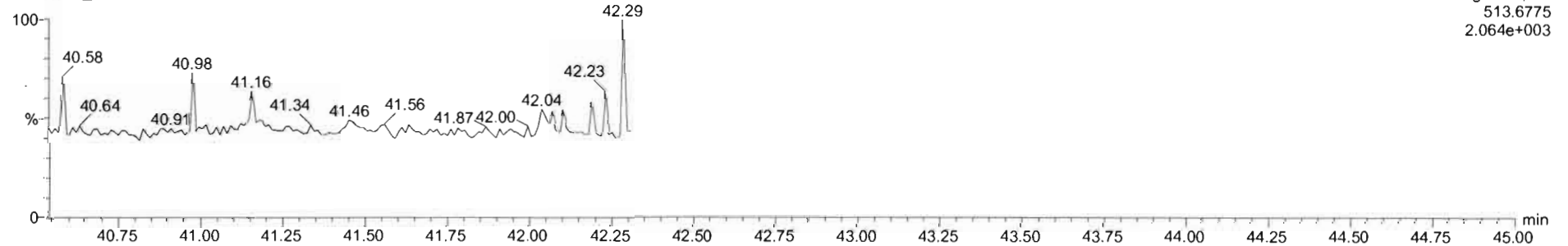


200919R2\_4



**DPE5**

200919R2\_4

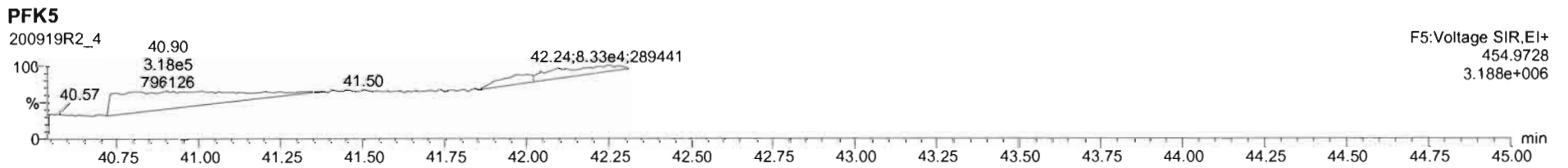
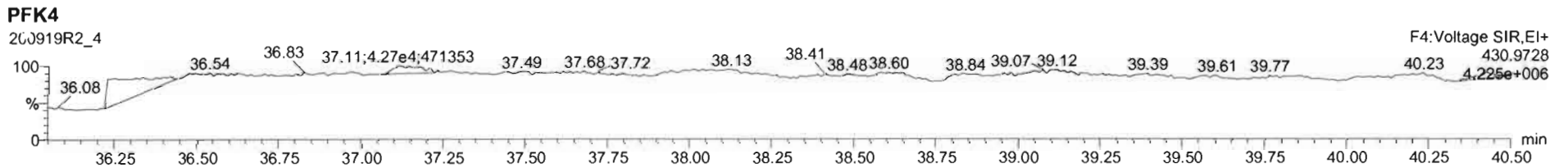
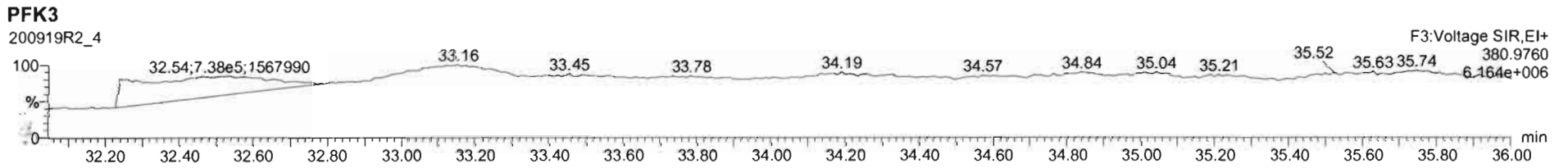
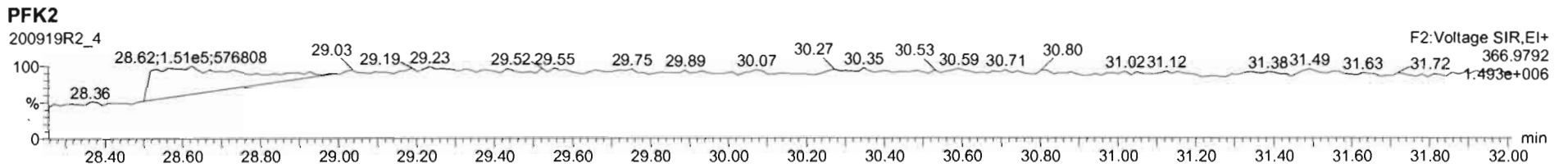
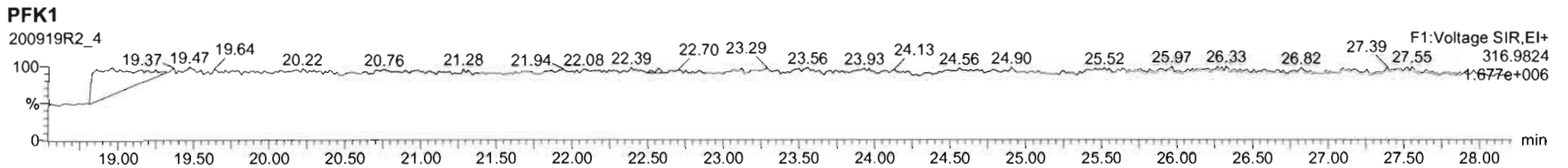


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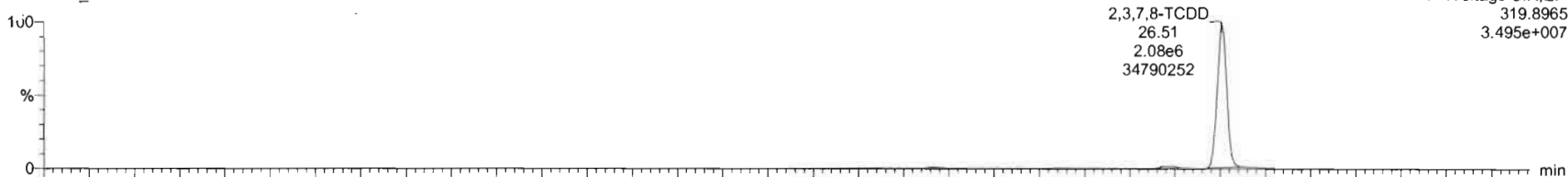
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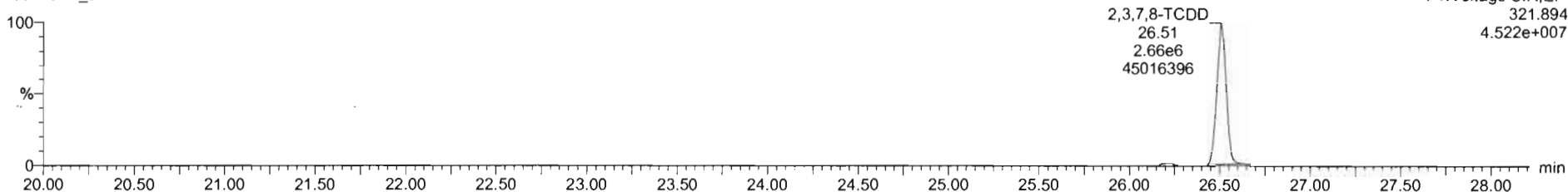
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**2,3,7,8-TCDD**

200919R2\_5

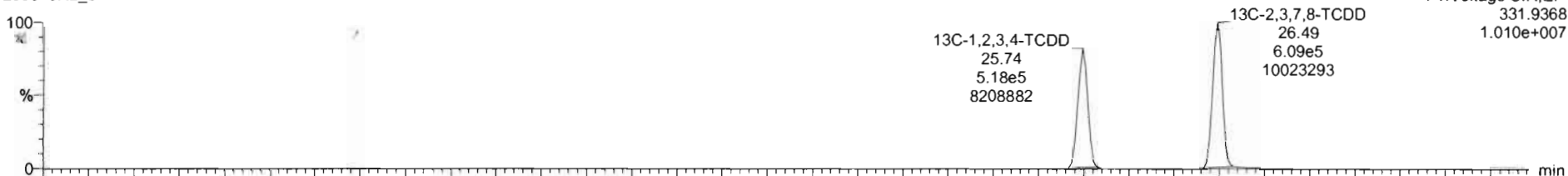


200919R2\_5

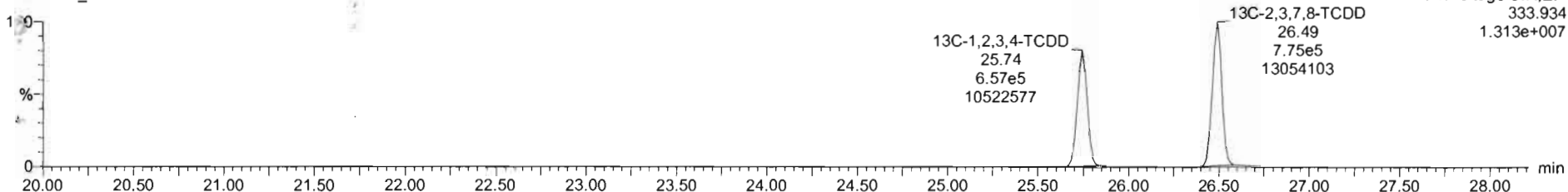


**13C-2,3,7,8-TCDD**

200919R2\_5



200919R2\_5



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

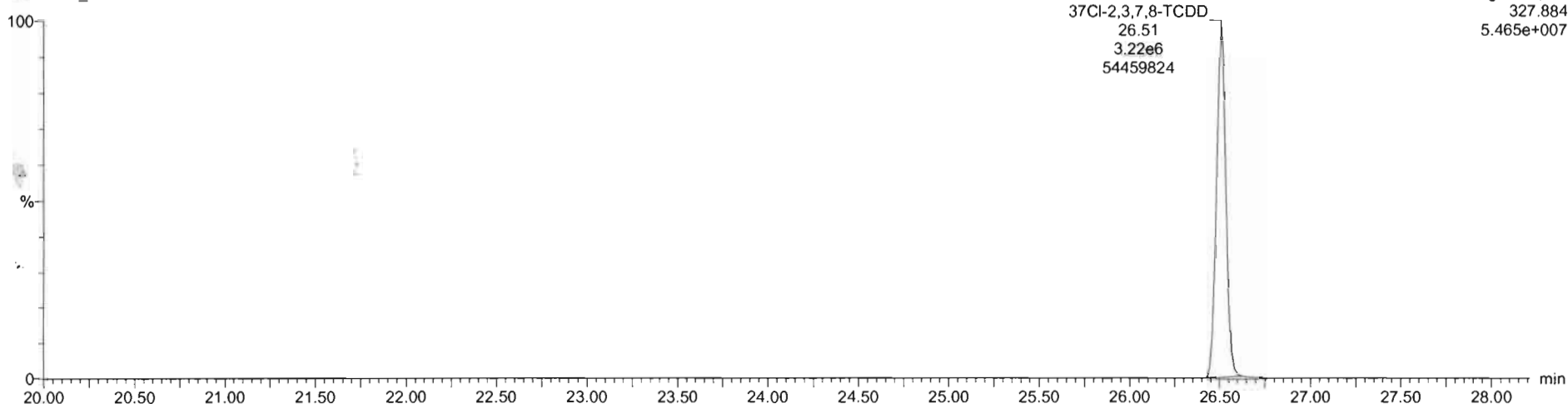
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 49L2307

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

200919R2\_5

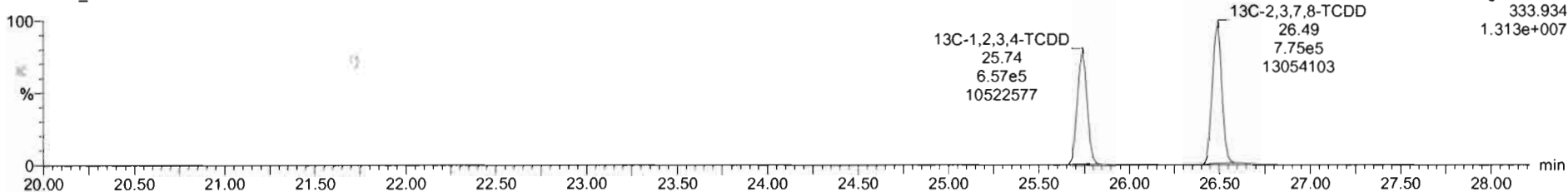


13C-1,2,3,4-TCDD

200919R2\_5



200919R2\_5



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

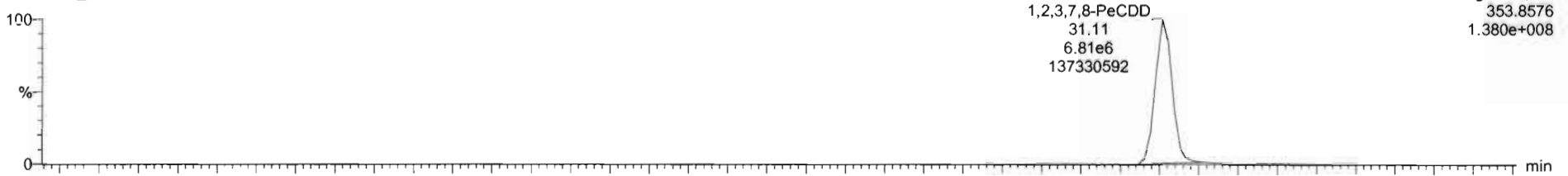
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

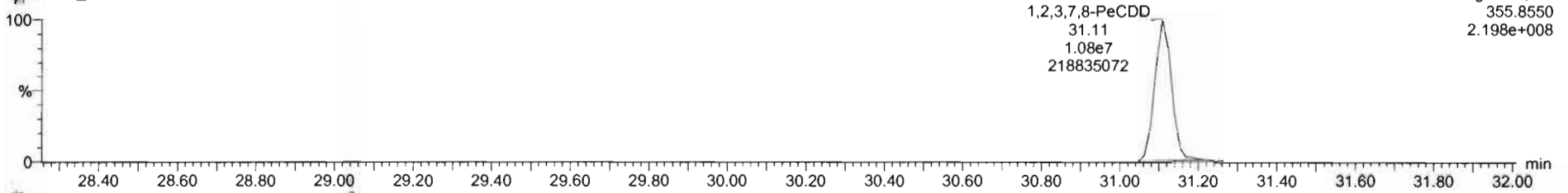
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**1,2,3,7,8-PeCDD**

200919R2\_5

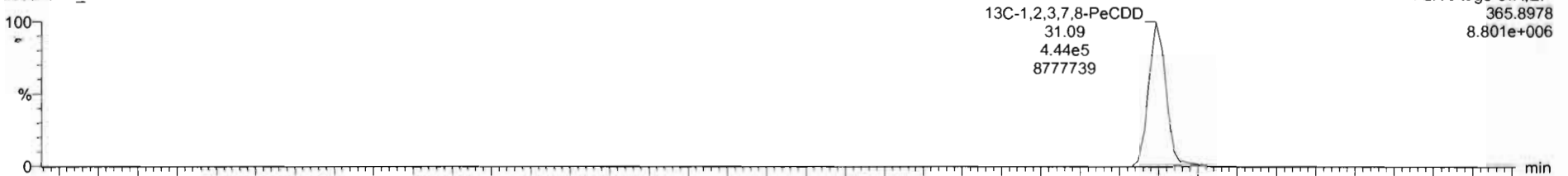


200919R2\_5

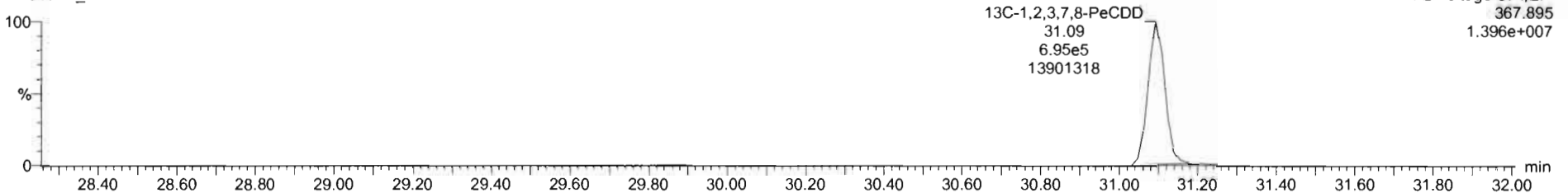


**13C-1,2,3,7,8-PeCDD**

200919R2\_5



200919R2\_5



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

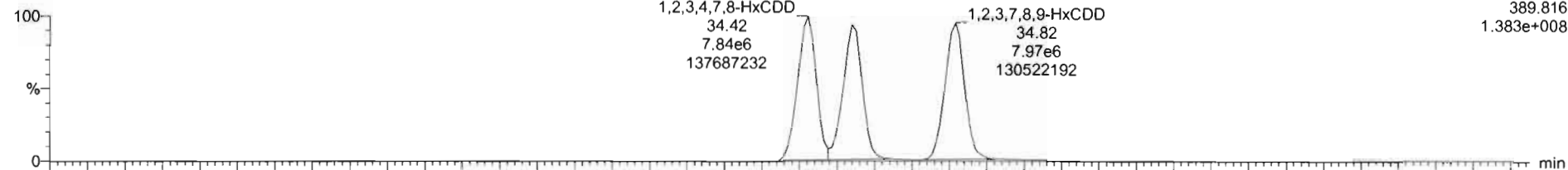
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 19L2307

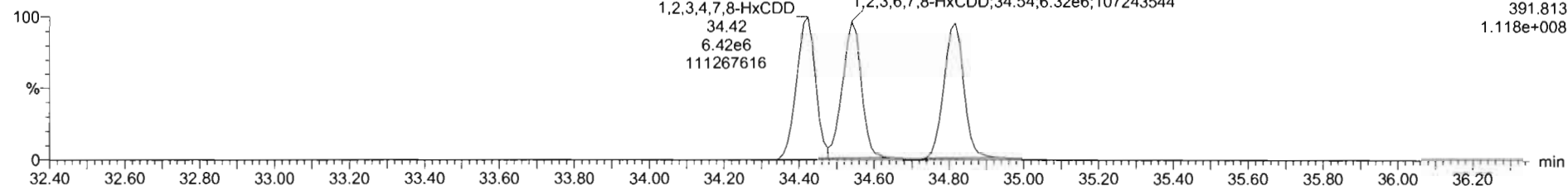
**1,2,3,4,7,8-HxCDD**

200919R2\_5



F3:Voltage SIR,EI+  
389.816  
1.383e+008

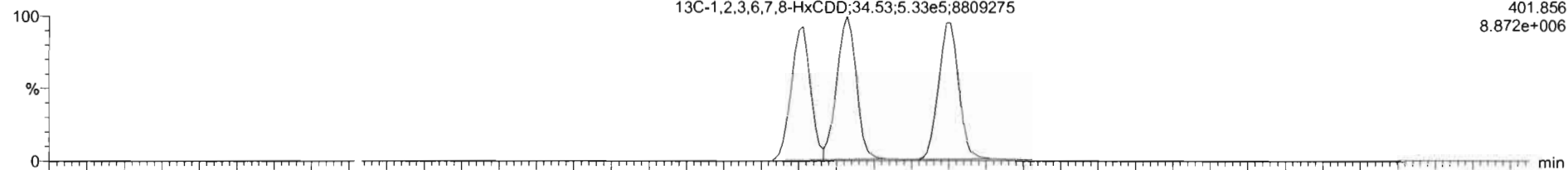
200919R2\_5



F3:Voltage SIR,EI+  
391.813  
1.118e+008

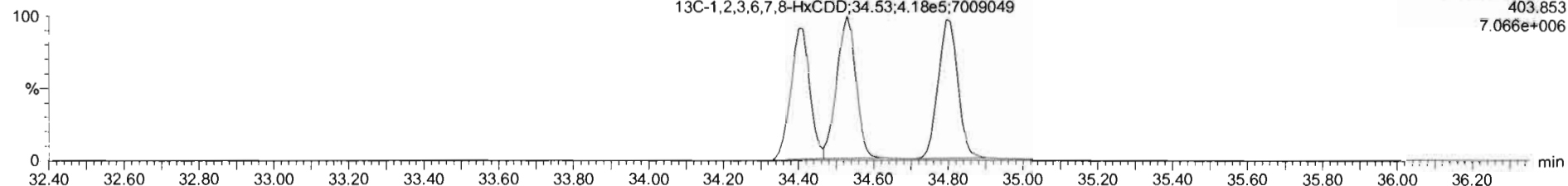
**13C-1,2,3,4,7,8-HxCDD**

200919R2\_5



F3:Voltage SIR,EI+  
401.856  
8.872e+006

200919R2\_5



F3:Voltage SIR,EI+  
403.853  
7.066e+006



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

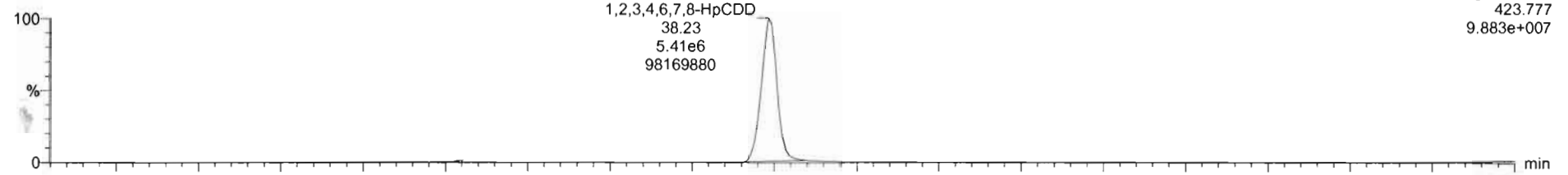
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Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

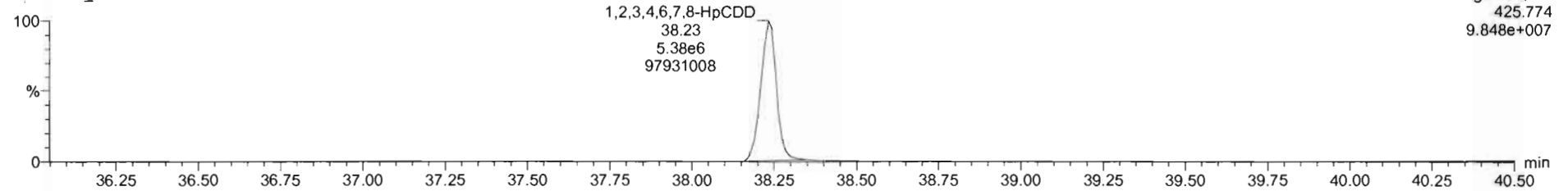
Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 ~~19L2307~~

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

200919R2\_5

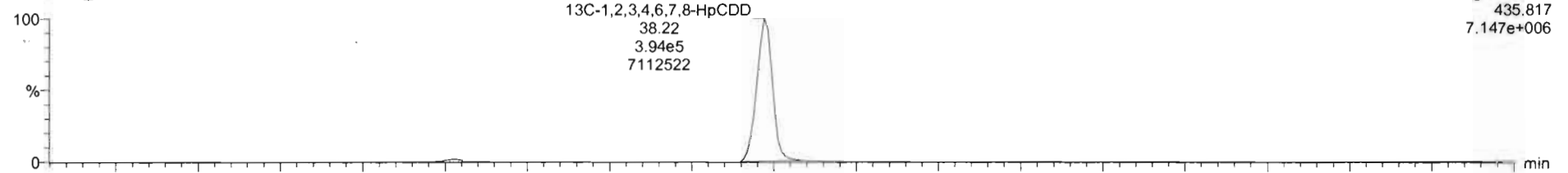


200919R2\_5

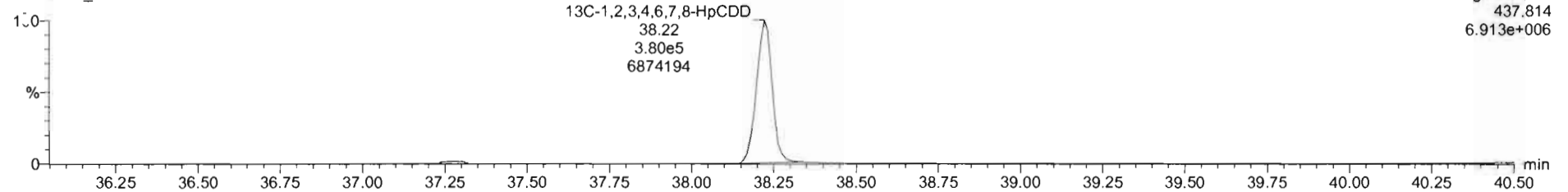


**13C-1,2,3,4,6,7,8-HpCDD**

200919R2\_5



200919R2\_5



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

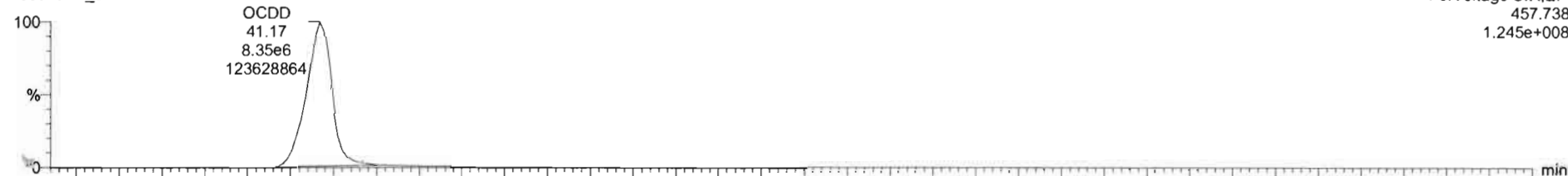
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

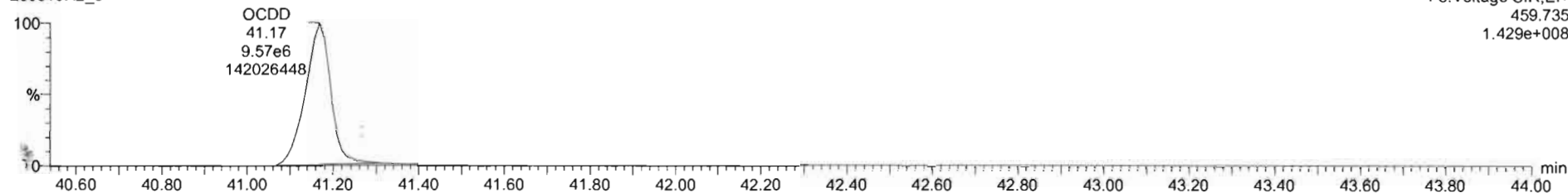
Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 ~~10L2307~~

**OCDD**

200919R2\_5



200919R2\_5

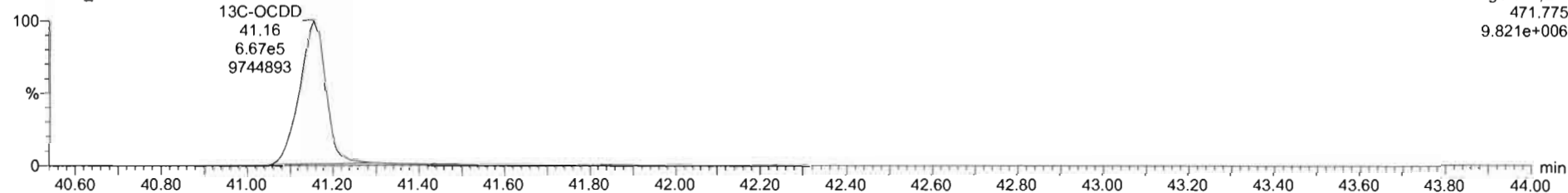


**13C-OCDD**

200919R2\_5



200919R2\_5



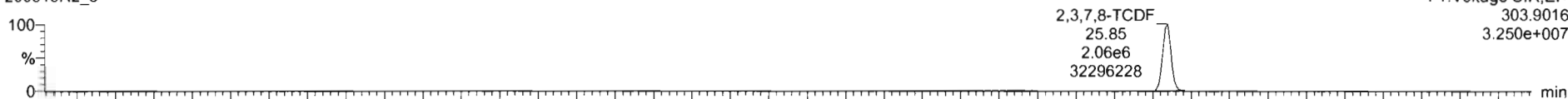
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Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

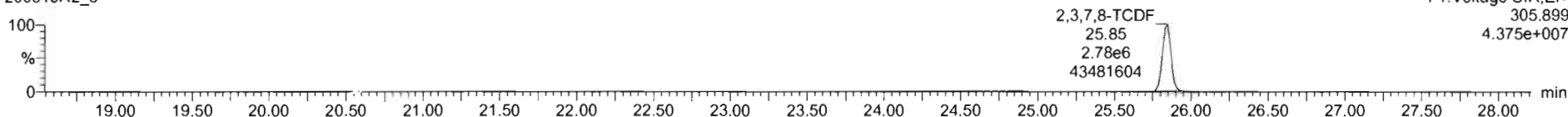
Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 19L2307

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

200919R2\_5

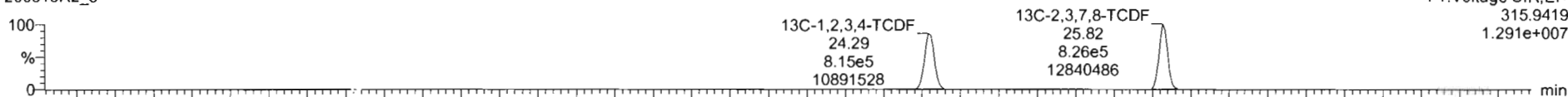


200919R2\_5

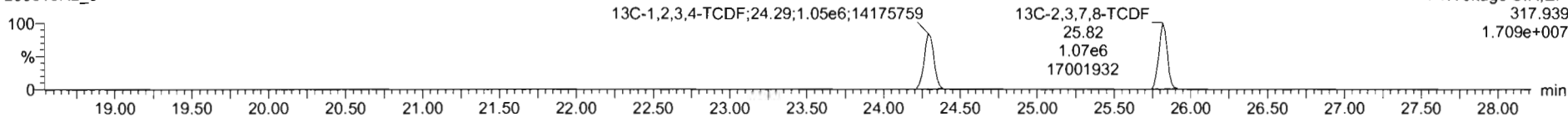


**13C-2,3,7,8-TCDF**

200919R2\_5

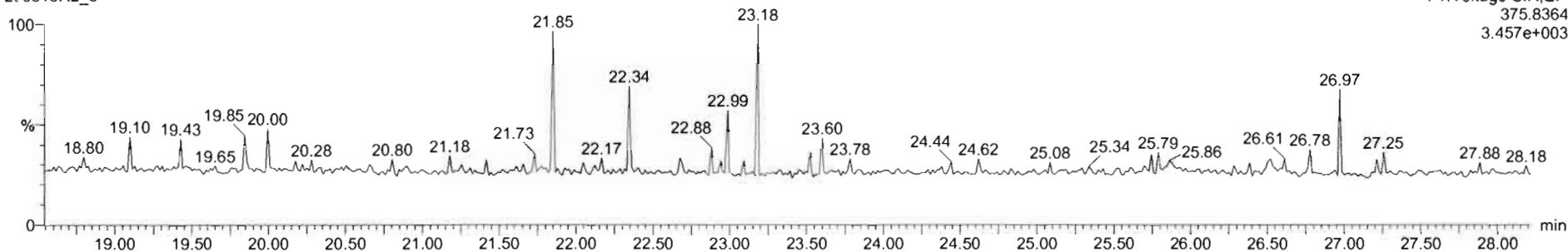


200919R2\_5



**DPE1**

200919R2\_5



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

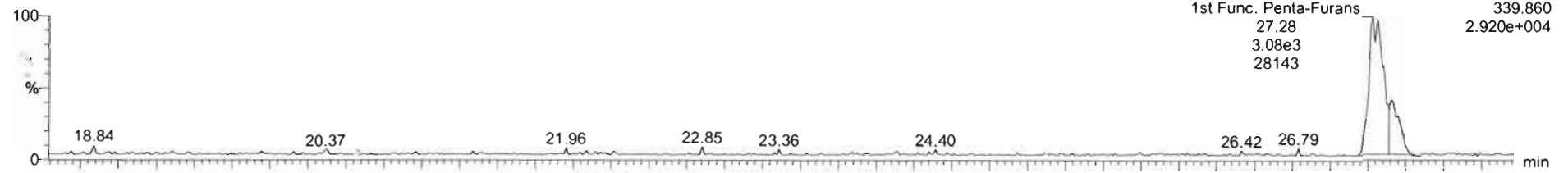
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

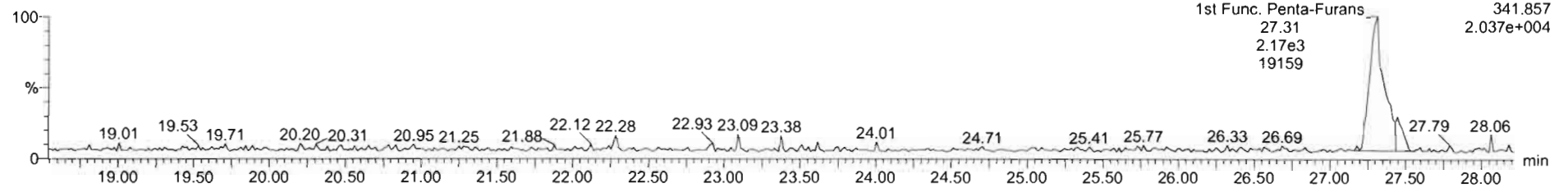
Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 ~~1912307~~

1st Func. Penta-Furans

200919R2\_5

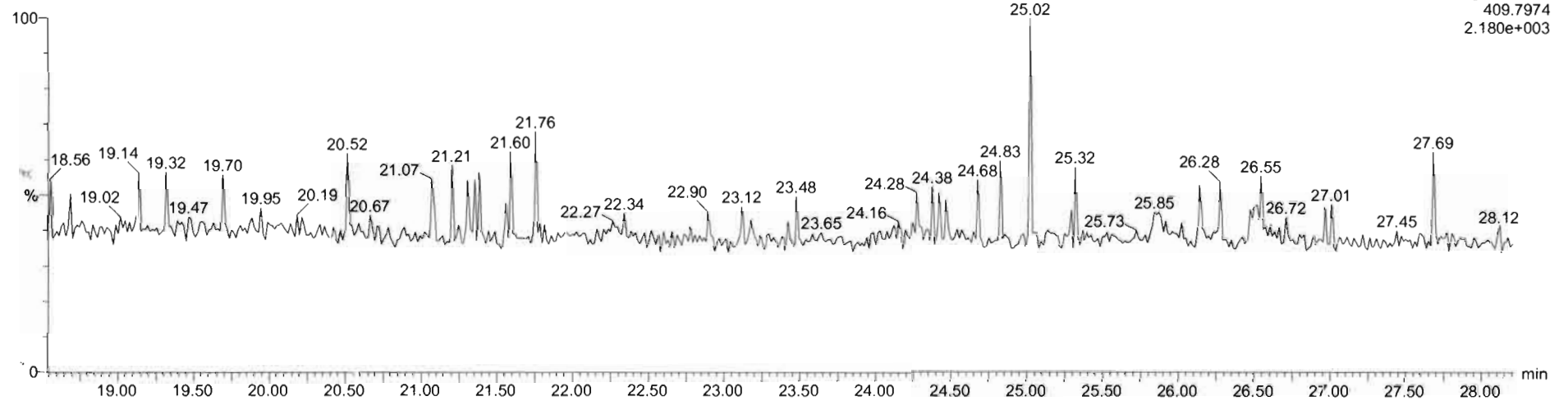


200919R2\_5



DPE6

200919R2\_5



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

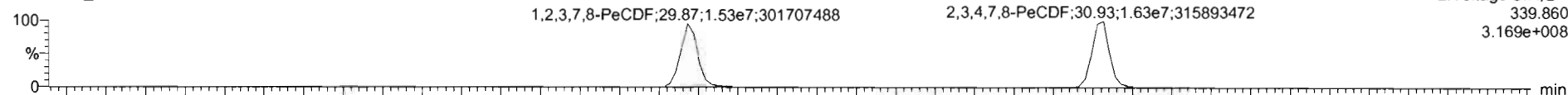
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time

Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 49L 2307

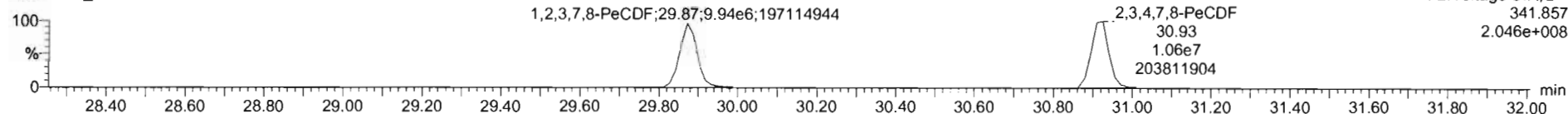
**1,2,3,7,8-PeCDF**

200919R2\_5



F2: Voltage SIR, EI+  
339.860  
3.169e+008

200919R2\_5



F2: Voltage SIR, EI+  
341.857  
2.046e+008

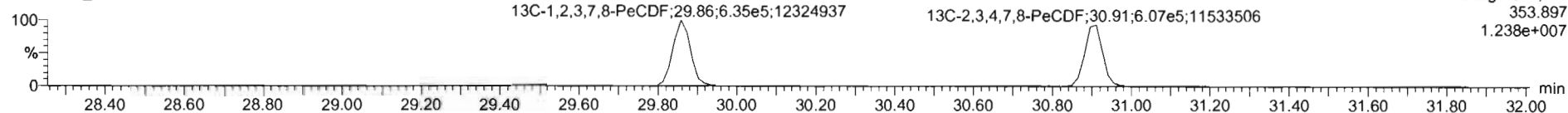
**13C-1,2,3,7,8-PeCDF**

200919R2\_5



F2: Voltage SIR, EI+  
351.900  
1.943e+007

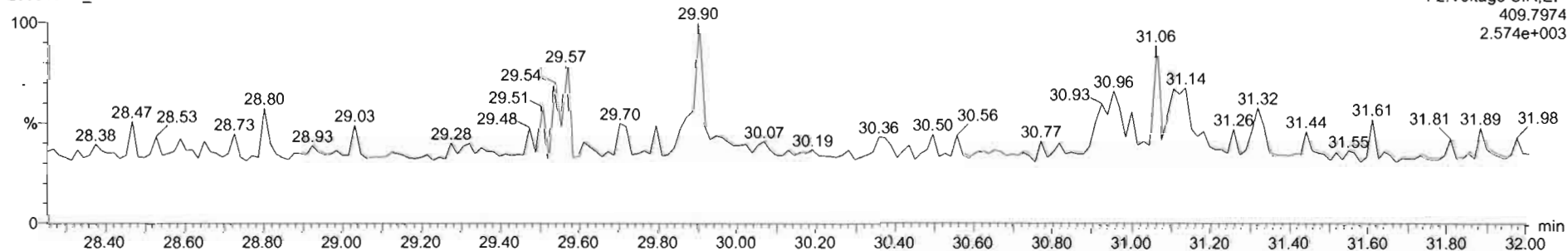
200919R2\_5



F2: Voltage SIR, EI+  
353.897  
1.238e+007

**DPE2**

200919R2\_5



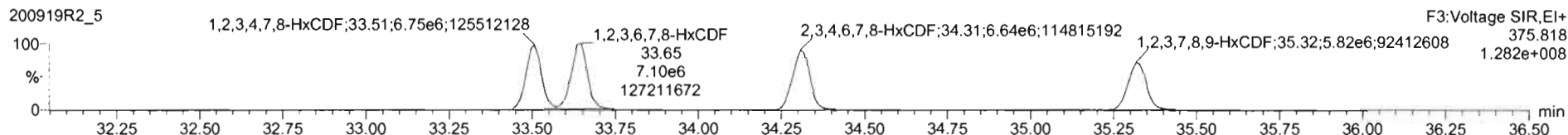
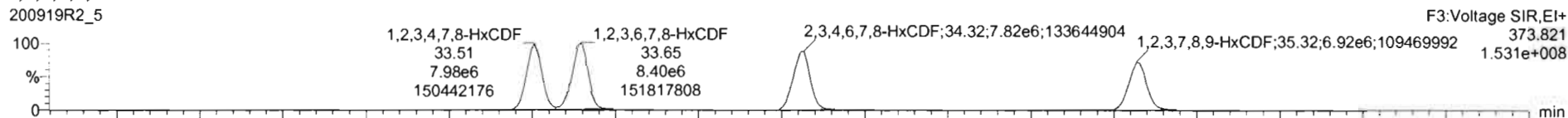
F2: Voltage SIR, EI+  
409.7974  
2.574e+003

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

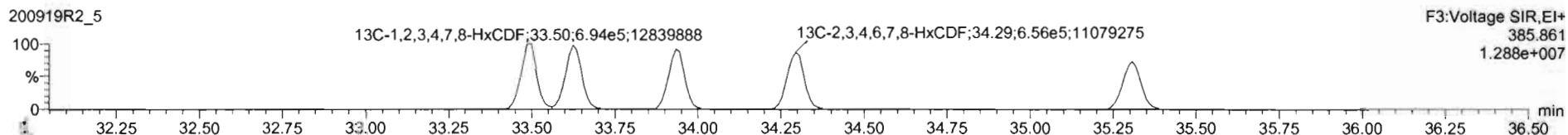
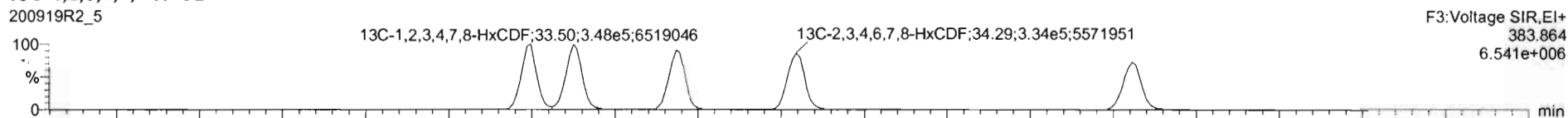
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 ~~49L2307~~

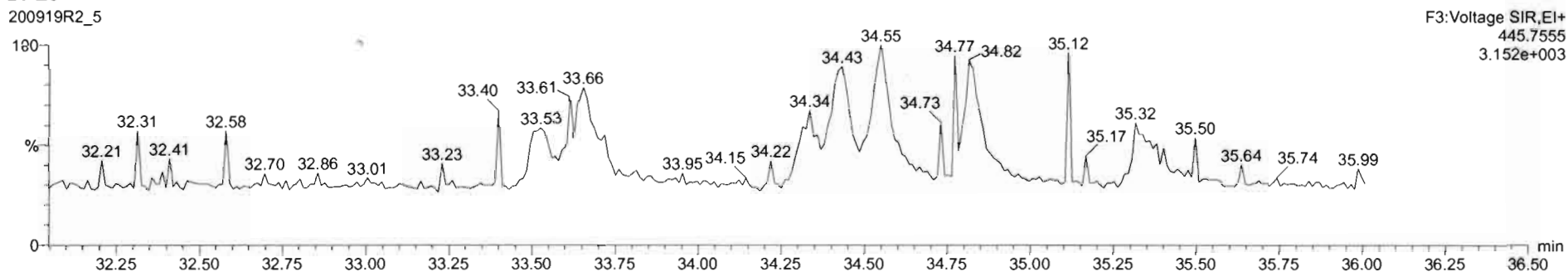
**1,2,3,4,7,8-HxCDF**



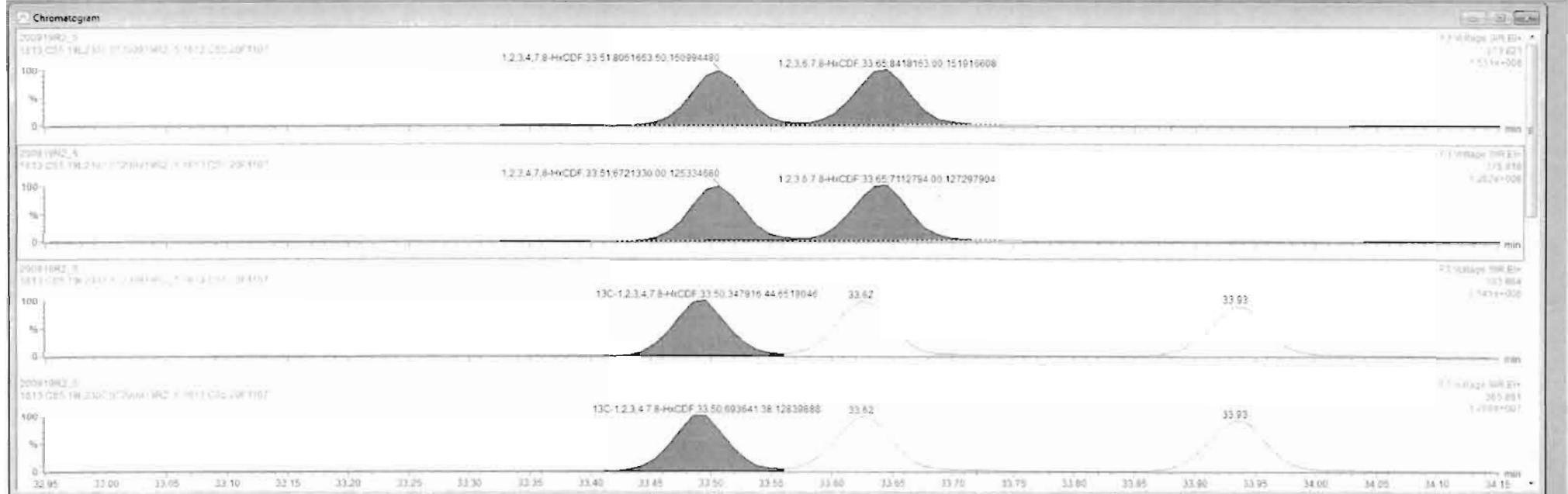
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



#	Name	RT	RA	yib	Area	IS Area	Std. Conc	%Dev	NROD	RRF M	RRF SD
38	Total Tetra-Dioxins				1.3844e8	300.000		8.35	1.22	0.0845	
40	Total Penta-Dioxins				1.1382e8	1500.000		8.13	0.866	0.0586	
41	Total Hexa-Dioxins				0.0000e0	1500.000		8.26	0.888	0.0718	
42	Total Hepta-Dioxins				7.7373e5	1500.000		9.36	0.832	0.0528	
43	Total Tetra-Furans				1.8974e8	300.000		11.3	0.738	0.0532	
44	1st Func. Penta-Furans				0.0000e0	1500.000		8.08	0.938	0.0756	
45	Total Penta-Furans				0.0000e0	1500.000		8.08	0.938	0.0756	
46	Total Hexa-Furans				0.0000e0	1500.000		10.8	0.870	0.0838	
47	Total Hepta-Furans				0.0000e0	1500.000		11.8	0.891	0.1103	
48	PK1					1.000					
49	PK2					1.000					
50	PK3					1.000					
51	PK4					1.000					



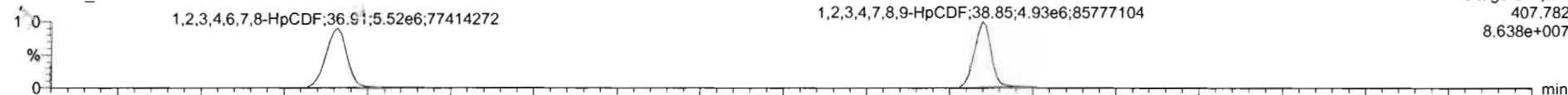
Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

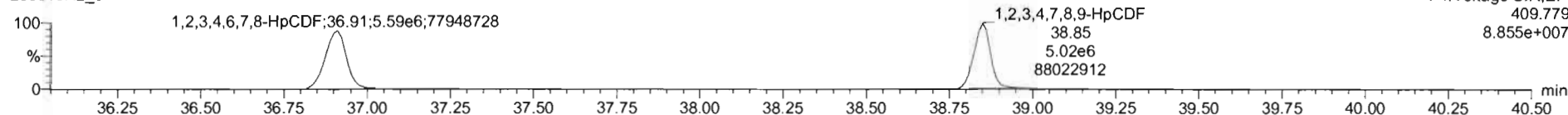
Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 ~~49L2307~~

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

200919R2\_5



200919R2\_5

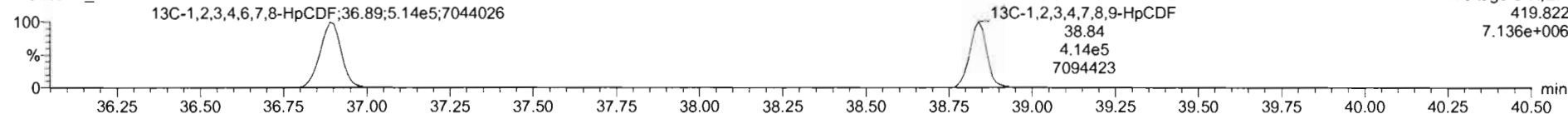


13C-1,2,3,4,6,7,8-HpCDF

200919R2\_5

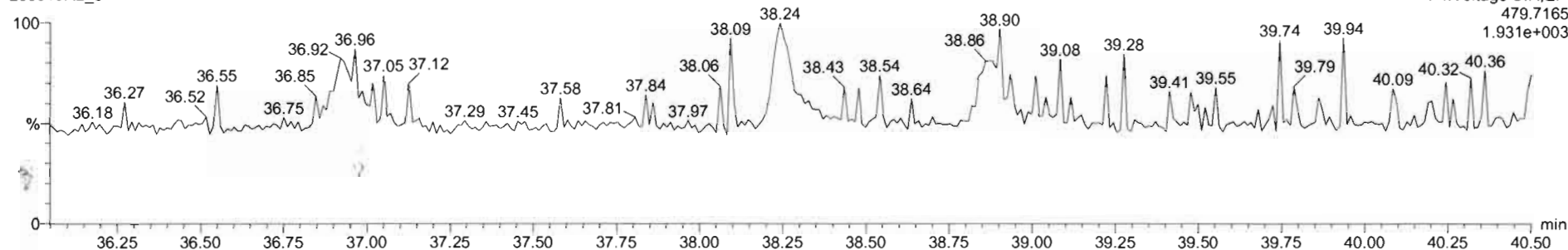


200919R2\_5



DPE4

200919R2\_5



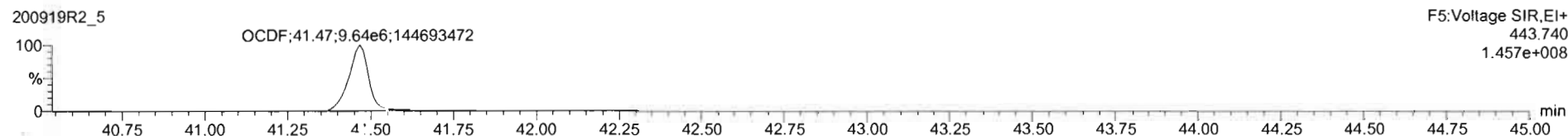


Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_CRV.qld

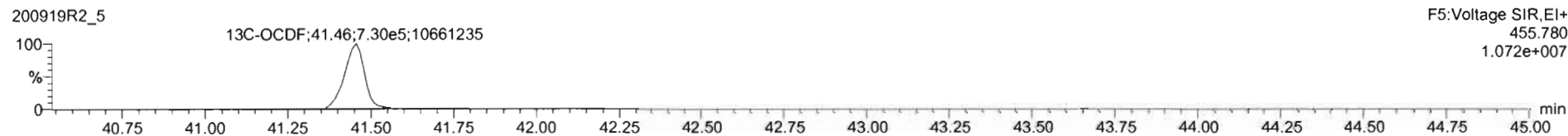
Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

Name: 200919R2\_5, Date: 19-Sep-2020, Time: 16:37:31, ID: ST200919R2\_5 1613 CS5 20F1107, Description: 1613 CS5 ~~10L2307~~

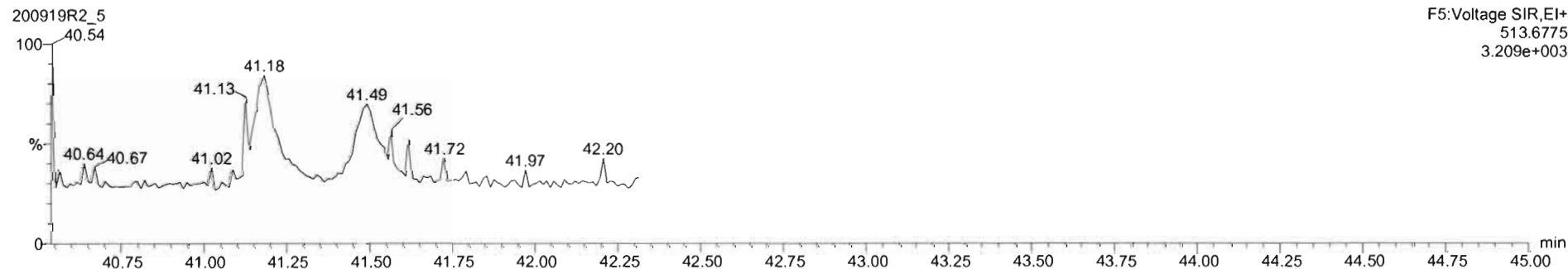
**OCDF**



**13C-OCDF**



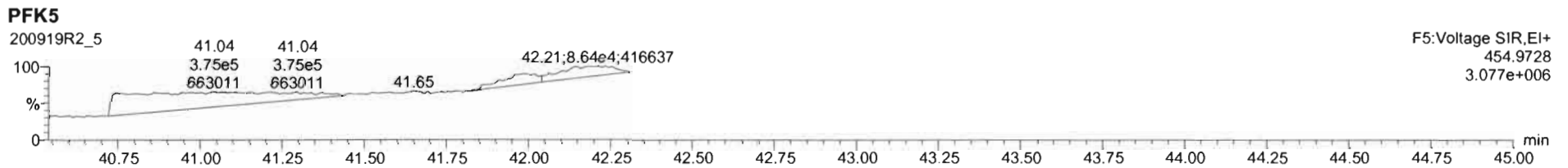
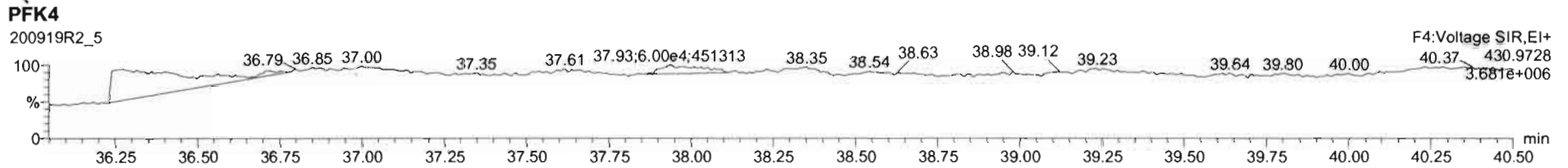
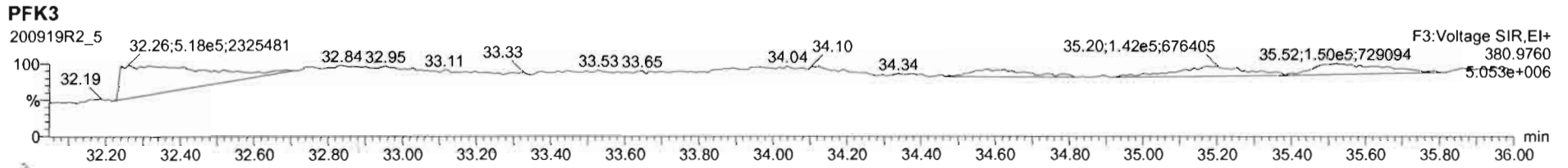
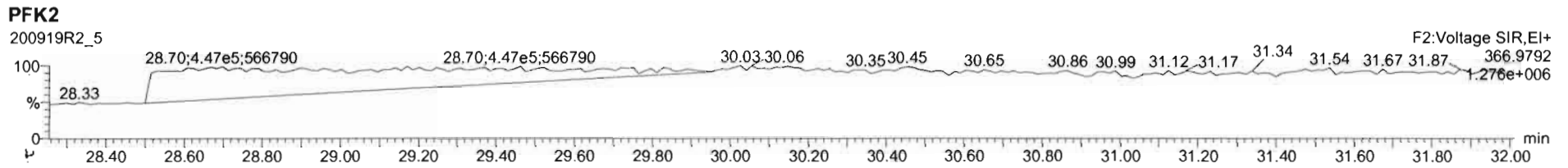
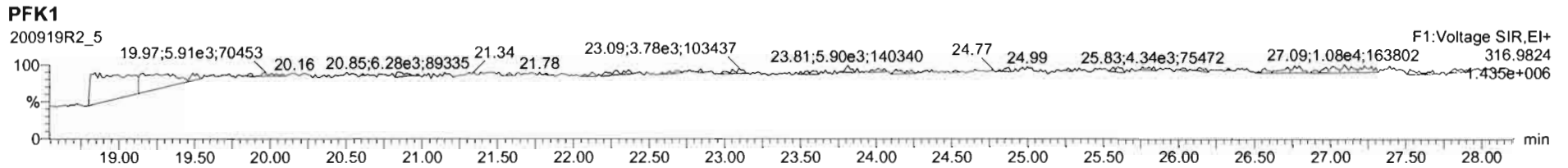
**DPE5**



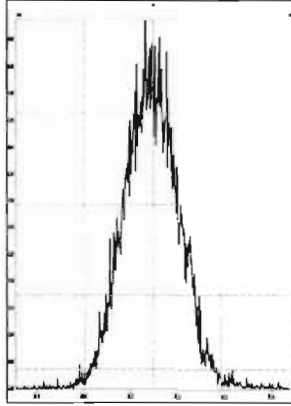
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Last Altered: Sunday, September 20, 2020 09:13:58 Pacific Daylight Time  
Printed: Sunday, September 20, 2020 10:26:38 Pacific Daylight Time

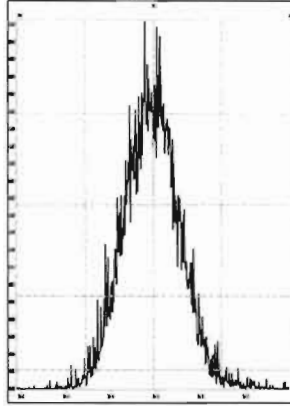
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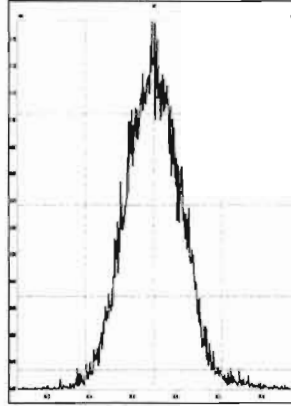
M 292.9824 R 11137



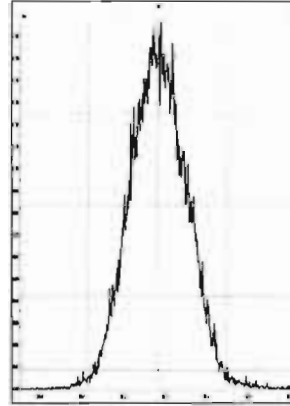
M 304.9824 R 11792



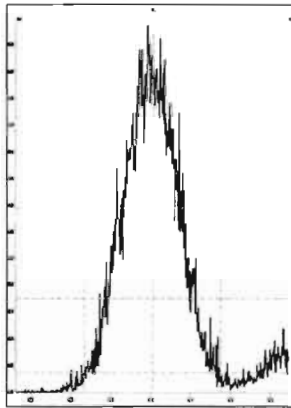
M 318.9792 R 11312



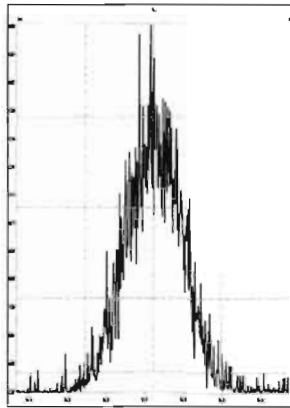
M 330.9792 R 10908



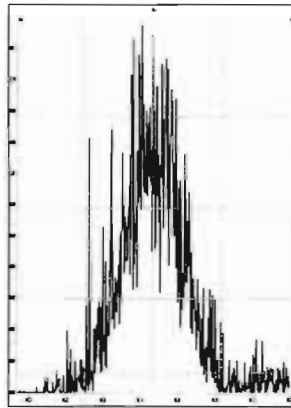
M 342.9792 R 10911



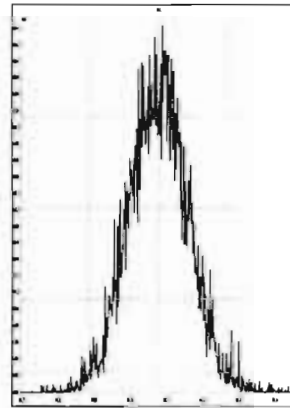
M 354.9792 R 11659



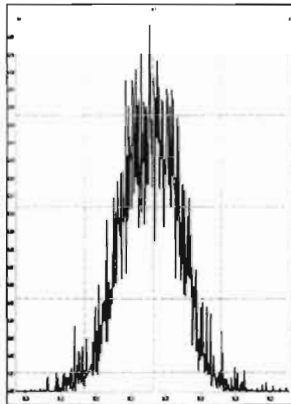
M 366.9792 R 12165



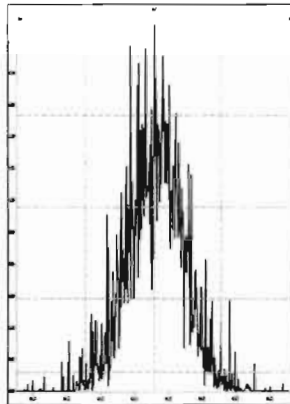
M 380.9760 R 11271



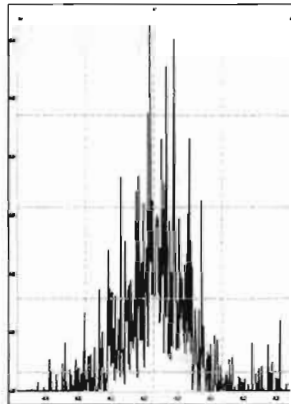
M 392.9760 R 10988



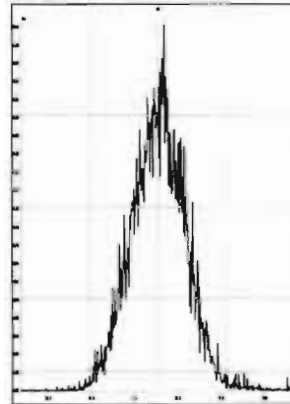
M 404.9760 R 13402



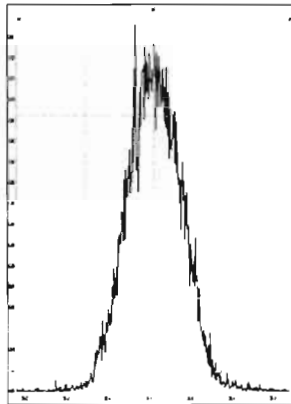
M 416.9760 R 17627



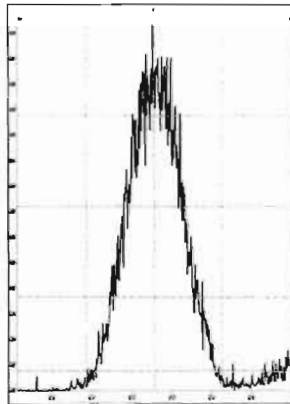
M 318.9792 R 11493



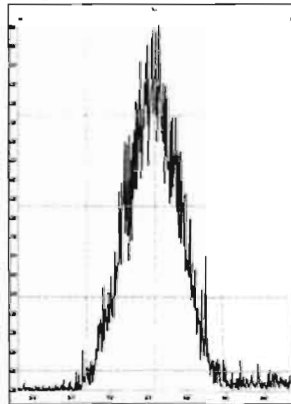
M 330.9792 R 11469



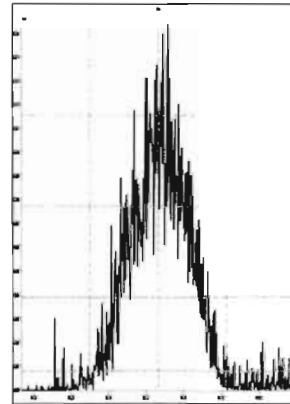
M 342.9792 R 11520



M 354.9792 R 11685

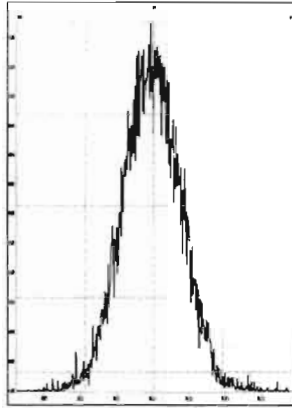


M 366.9792 R 11224

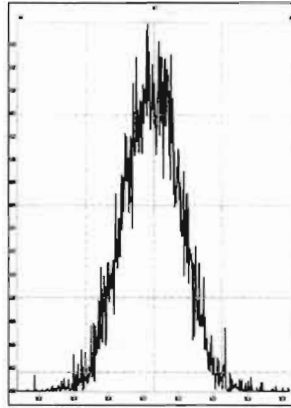


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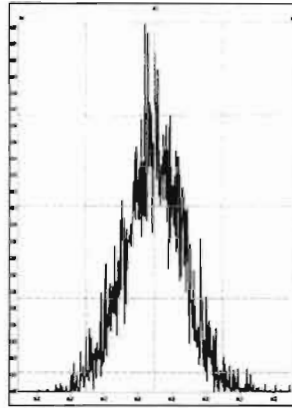
M 380.9760 R 11236



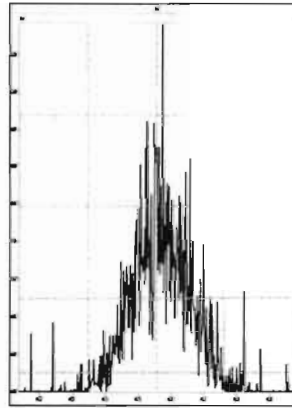
M 392.9760 R 11577



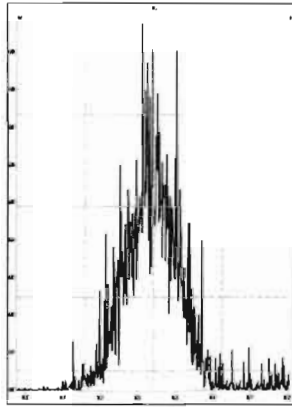
M 404.9760 R 11772



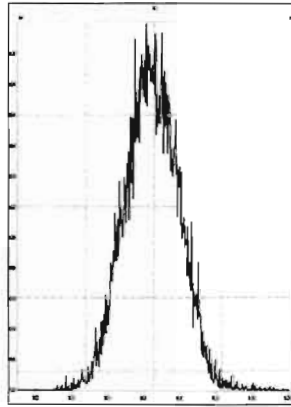
M 416.9760 R 13930



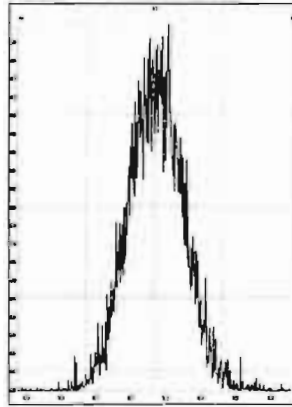
M 366.9792 R 14226



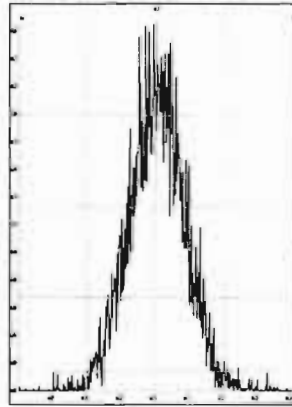
M 380.9760 R 11655



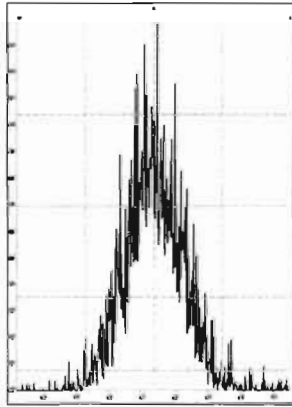
M 392.9760 R 11600



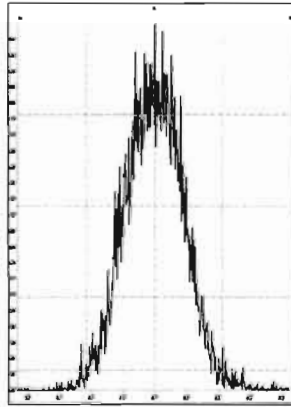
M 404.9760 R 12107



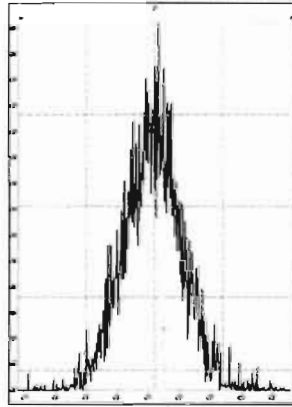
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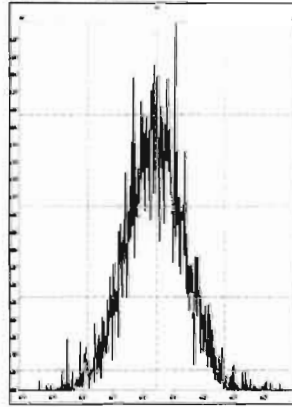
M 430.9728 R 11046



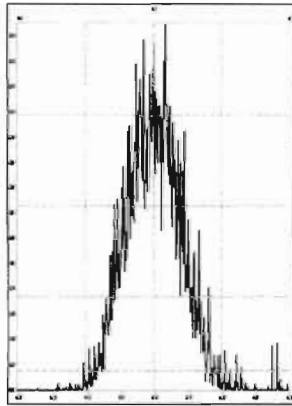
M 442.9728 R 11823



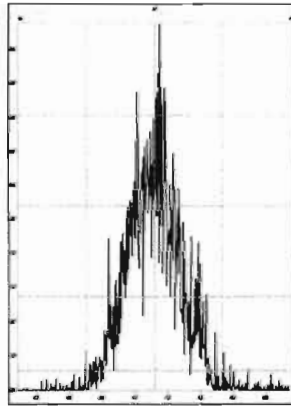
M 454.9728 R 12048



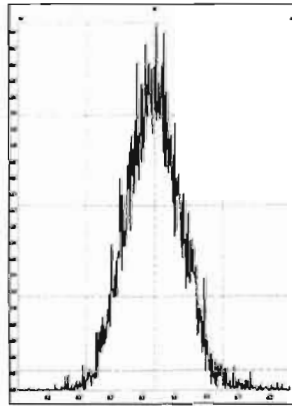
M 404.9760 R 12594



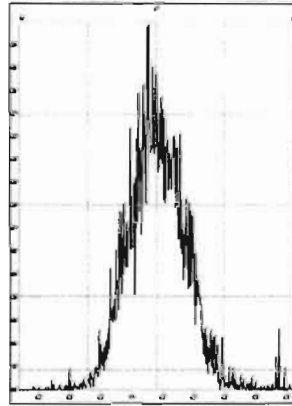
M 416.9760 R 13791



M 430.9728 R 11793

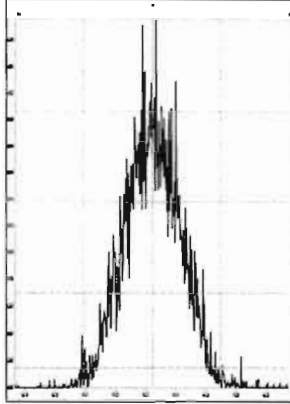


M 442.9728 R 11342

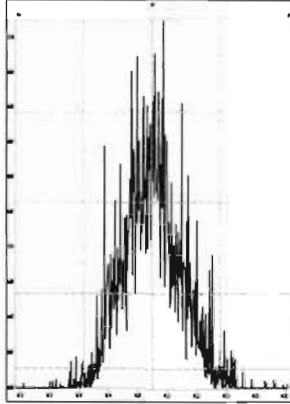


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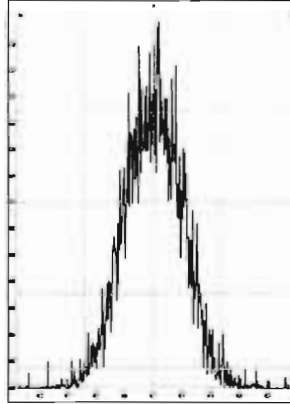
M 454.9728 R 11998



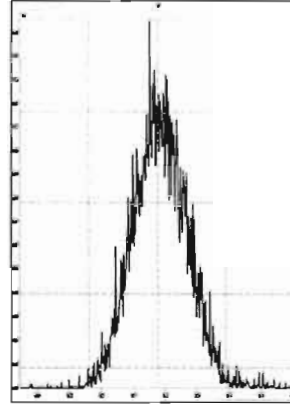
M 466.9728 R 13278



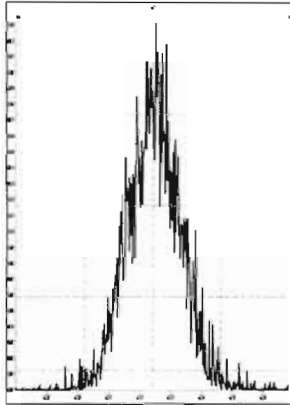
M 480.9696 R 11417



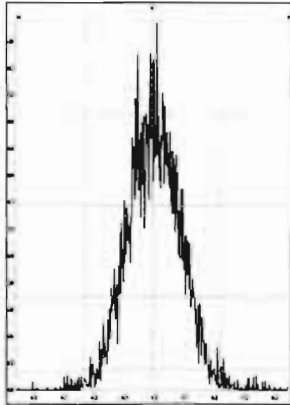
M 430.9728 R 11684



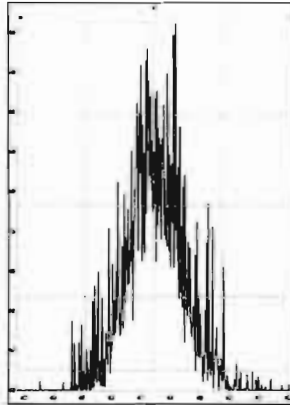
M 442.9728 R 12510



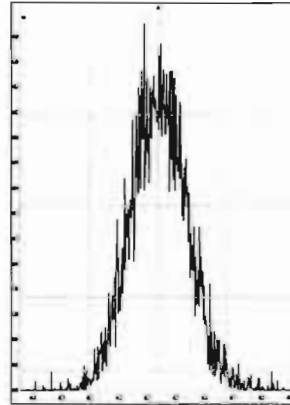
M 454.9728 R 12658



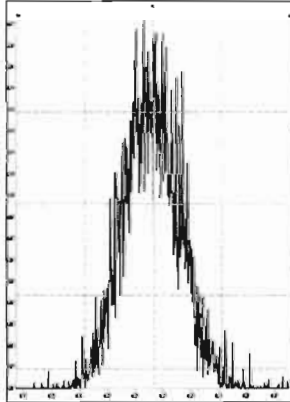
M 466.9728 R 13606



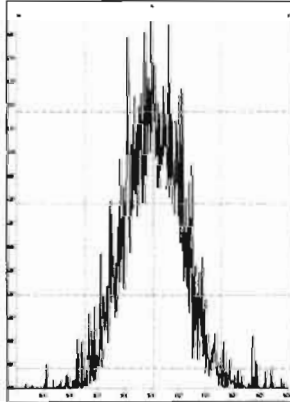
M 480.9696 R 11691



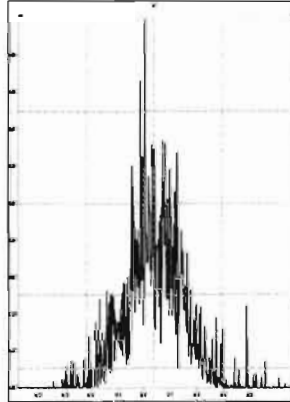
M 492.9696 R 12588



M 504.9696 R 11908



M 516.9697 R 13670



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

Last Altered: Monday, September 21, 2020 12:00:33 Pacific Daylight Time  
Printed: Monday, September 21, 2020 12:02:58 Pacific Daylight Time

HLN 09/21/2020

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-9-19-20.cdb 20 Sep 2020 09:13:58

Name: 200919R2\_7, Date: 19-Sep-2020, Time: 18:04:53, ID: SS200919R2\_1 1613 SSS 20F1108, Description: 1613 SSS 19-2008

#	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	1.50e5	1.43e6	0.77	NO	1.01	26.52	26.51	NO	1.001	1.001	10.448	104	NO
2	2 1,2,3,7,8-PeCDD	5.22e5	1.05e6	0.62	NO	0.960	31.12	31.11	NO	1.001	1.000	51.833	104	NO
3	3 1,2,3,4,7,8-HxCDD	4.11e5	7.72e5	1.23	NO	1.01	34.42	34.42	NO	1.000	1.000	52.921	106	NO
4	4 1,2,3,6,7,8-HxCDD	4.31e5	8.62e5	1.24	NO	0.887	34.53	34.54	NO	1.000	1.000	56.368	113	NO
5	5 1,2,3,7,8,9-HxCDD	4.12e5	8.58e5	1.23	NO	0.913	34.82	34.82	NO	1.000	1.000	52.669	105	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.00e5	6.88e5	1.01	NO	0.828	38.24	38.24	NO	1.000	1.000	52.740	105	NO
7	7 OCDD	5.02e5	1.07e6	0.87	NO	0.851	41.16	41.17	NO	1.000	1.000	110.60	111	NO
8	8 2,3,7,8-TCDF	1.56e5	1.98e6	0.74	NO	0.736	25.83	25.85	NO	1.000	1.001	10.725	107	NO
9	9 1,2,3,7,8-PeCDF	7.66e5	1.58e6	1.54	NO	0.941	29.88	29.87	NO	1.001	1.001	51.503	103	NO
10	10 2,3,4,7,8-PeCDF	8.53e5	1.49e6	1.53	NO	1.05	30.94	30.93	NO	1.001	1.000	54.624	109	NO
11	11 1,2,3,4,7,8-HxCDF	4.61e5	9.88e5	1.19	NO	0.843	33.50	33.51	NO	1.000	1.000	55.333	111	NO
12	12 1,2,3,6,7,8-HxCDF	4.72e5	9.75e5	1.19	NO	0.887	33.63	33.65	NO	1.000	1.001	54.649	109	NO
13	13 2,3,4,6,7,8-HxCDF	4.49e5	9.32e5	1.20	NO	0.868	34.32	34.32	NO	1.001	1.001	55.485	111	NO
14	14 1,2,3,7,8,9-HxCDF	3.76e5	8.25e5	1.20	NO	0.854	35.33	35.33	NO	1.001	1.001	53.406	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.25e5	6.63e5	1.01	NO	0.894	36.93	36.91	NO	1.001	1.001	54.877	110	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.82e5	5.30e5	1.00	NO	0.991	38.85	38.86	NO	1.000	1.000	53.723	107	NO
17	17 OCDF	4.87e5	1.16e6	0.87	NO	0.788	41.44	41.46	NO	1.000	1.000	106.87	107	NO
18	18 13C-2,3,7,8-TCDD	1.43e6	1.26e6	0.79	NO	1.15	26.48	26.49	NO	1.029	1.029	98.256	98.3	NO
19	19 13C-1,2,3,7,8-PeCDD	1.05e6	1.26e6	0.63	NO	0.887	31.08	31.09	NO	1.207	1.208	93.912	93.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.72e5	1.01e6	1.27	NO	0.801	34.42	34.41	NO	1.014	1.014	95.685	95.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.62e5	1.01e6	1.28	NO	0.892	34.54	34.53	NO	1.018	1.017	95.980	96.0	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.58e5	1.01e6	1.25	NO	0.882	34.81	34.81	NO	1.025	1.025	96.571	96.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.88e5	1.01e6	1.04	NO	0.720	38.24	38.23	NO	1.127	1.126	94.951	95.0	NO
24	24 13C-OCDD	1.07e6	1.01e6	0.89	NO	0.564	41.18	41.16	NO	1.213	1.213	187.84	93.9	NO
25	25 13C-2,3,7,8-TCDF	1.98e6	1.97e6	0.77	NO	1.01	25.82	25.82	NO	1.003	1.003	99.460	99.5	NO
26	26 13C-1,2,3,7,8-PeCDF	1.58e6	1.97e6	1.59	NO	0.814	29.84	29.86	NO	1.159	1.160	98.317	98.3	NO
27	27 13C-2,3,4,7,8-PeCDF	1.49e6	1.97e6	1.59	NO	0.768	30.88	30.91	NO	1.200	1.201	98.126	98.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	9.88e5	1.01e6	0.50	NO	0.993	33.49	33.50	NO	0.987	0.987	98.905	98.9	NO
29	29 13C-1,2,3,6,7,8-HxCDF	9.75e5	1.01e6	0.50	NO	0.990	33.63	33.62	NO	0.991	0.991	97.799	97.8	NO
30	30 13C-2,3,4,6,7,8-HxCDF	9.32e5	1.01e6	0.50	NO	0.944	34.30	34.30	NO	1.011	1.010	98.089	98.1	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.25e5	1.01e6	0.50	NO	0.842	35.32	35.31	NO	1.041	1.040	97.437	97.4	NO

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

Last Altered: Monday, September 21, 2020 12:00:33 Pacific Daylight Time

Printed: Monday, September 21, 2020 12:02:58 Pacific Daylight Time

Name: 200919R2\_7, Date: 19-Sep-2020, Time: 18:04:53, ID: SS200919R2\_1 1613 SSS 20F1108, Description: 1613 SSS ~~10L2300~~

#	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	6.63e5	1.01e6	0.43	NO	0.687	36.91	36.89	NO	1.087	1.087	95.877	95.9	NO
33	13C-1,2,3,4,7,8,9-HpCDF	5.30e5	1.01e6	0.43	NO	0.555	38.87	38.85	NO	1.145	1.145	94.895	94.9	NO
34	13C-OCDF	1.16e6	1.01e6	0.87	NO	0.607	41.46	41.44	NO	1.221	1.221	189.06	94.5	NO
35	37Cl-2,3,7,8-TCDD	1.54e5	1.26e6			1.18	26.51	26.51	NO	1.030	1.030	10.412	104	NO
36	13C-1,2,3,4-TCDD	1.26e6	1.26e6	0.80	NO	1.00	25.74	25.74	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.97e6	1.97e6	0.79	NO	1.00	24.31	24.31	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.01e6	1.01e6	0.50	NO	1.00	33.92	33.94	NO	1.000	1.000	100.00	100	YES

OK

Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

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Printed: Monday, September 21, 2020 11:54:27 Pacific Daylight Time

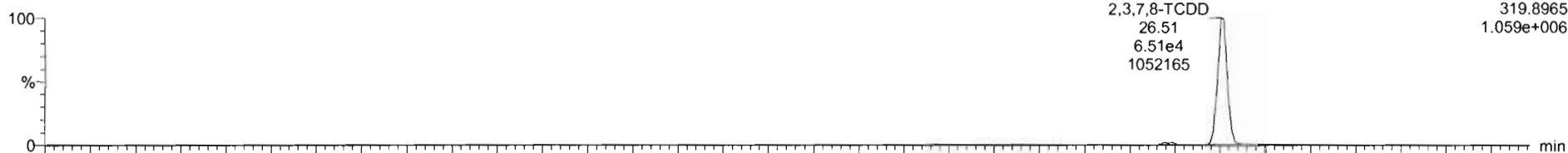
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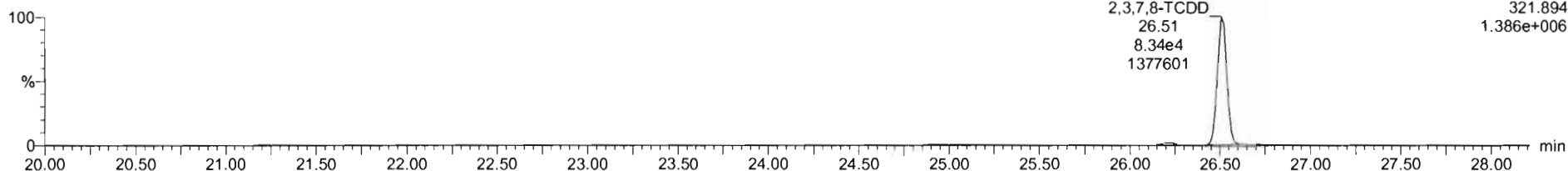
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**2,3,7,8-TCDD**

200919R2\_7

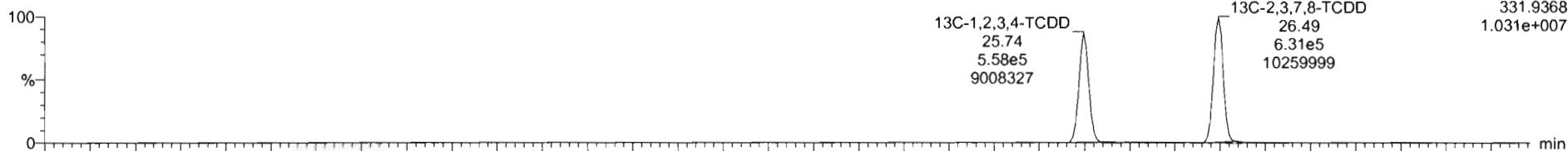


200919R2\_7

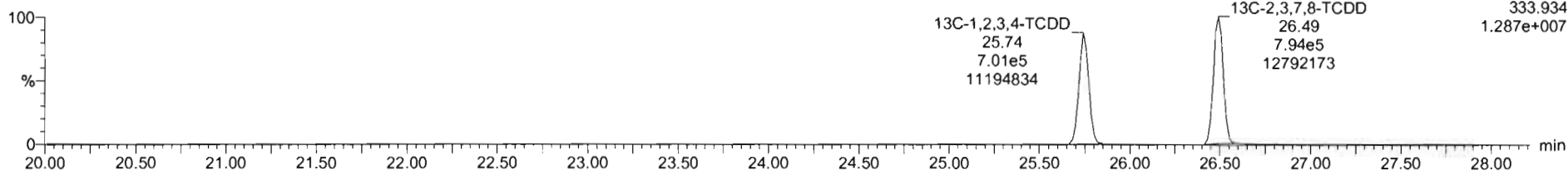


**13C-2,3,7,8-TCDD**

200919R2\_7

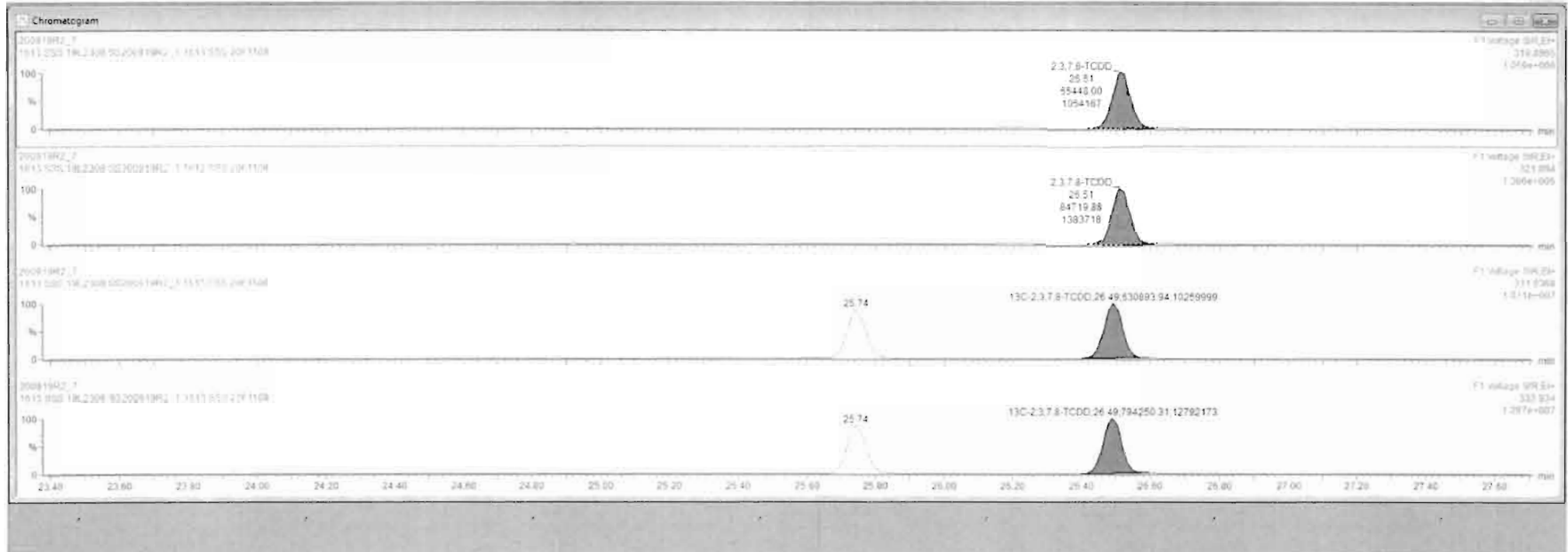


200919R2\_7





ID	Name	Resc	Rk	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.50e5	0.77	ND	1.01	1.000	26.51	1.001	10.4	104	0.0176	10.4
2	1,2,3,7,8-PeCDD	5.22e5	0.62	ND	0.98	1.000	31.11	1.000	51.8	104	0.8650	51.8
3	1,2,3,4,7,8-HxCDD	4.11e5	1.23	ND	1.01	1.000	34.42	1.000	52.9	108	0.0750	52.9
4	1,2,3,6,7,8-HxCDD	4.31e5	1.24	ND	0.99	1.000	34.94	1.000	56.4	112	0.0750	56.4
5	1,2,3,7,8,9-HxCDD	4.12e5	1.23	ND	0.91	1.000	34.82	1.000	52.7	105	0.0780	52.7
6	1,2,3,4,6,7,8-HpCDD	3.00e5	1.01	ND	0.93	1.000	36.24	1.000	62.7	105	0.137	62.7
7	OCDD	5.22e5	0.87	ND	0.88	1.000	41.17	1.000	111	111	0.245	111
8	2,3,7,8-TCDF	1.50e5	0.74	ND	0.74	1.000	26.88	1.001	10.7	107	0.0270	10.7
9	1,2,3,7,8-PeCDF	7.86e5	1.54	ND	0.94	1.000	29.97	1.001	51.5	103	0.0620	51.5
10	1,2,3,4,7,8-HxCDF	8.53e5	1.63	ND	1.02	1.000	30.93	1.000	54.6	109	0.0960	54.6
11	1,2,3,4,7,8,9-HxCDF	4.91e5	1.19	ND	0.94	1.000	33.91	1.000	55.3	111	0.0960	55.3
12	1,2,3,6,7,8-HpCDF	4.72e5	1.19	ND	0.99	1.000	33.65	1.001	54.0	105	0.0907	54.0
13	2,3,4,6,7,8-HxCDF	4.48e5	1.20	ND	0.97	1.000	34.57	1.001	64.5	111	0.194	64.5



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

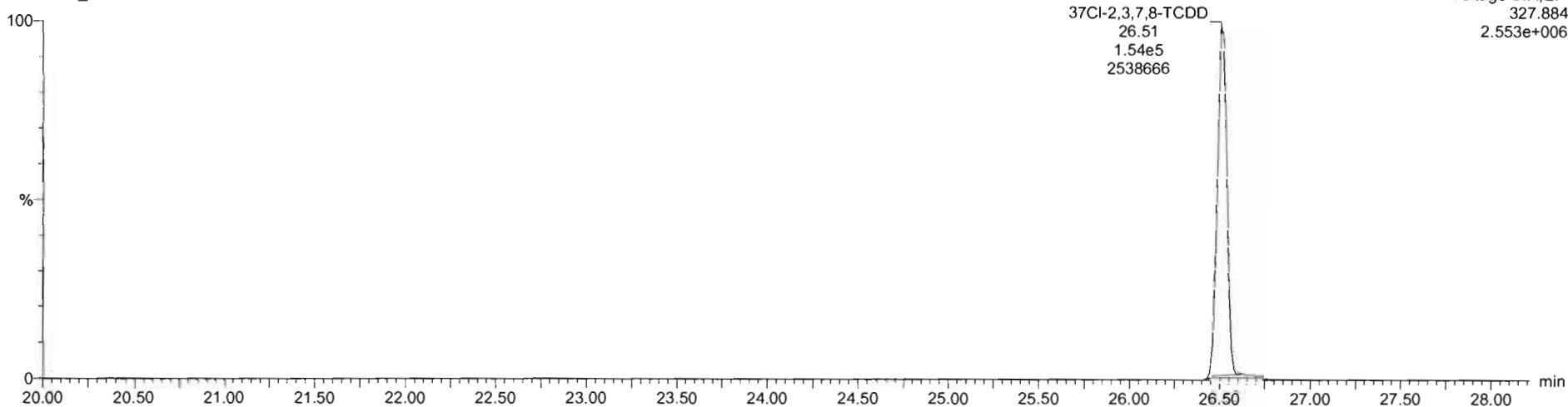
Last Altered: Monday, September 21, 2020 11:51:44 Pacific Daylight Time

Printed: Monday, September 21, 2020 11:54:27 Pacific Daylight Time

Name: 200919R2\_7, Date: 19-Sep-2020, Time: 18:04:53, ID: SS200919R2\_1 1613 SSS 20F1108, Description: 1613 SSS ~~19L 2498~~

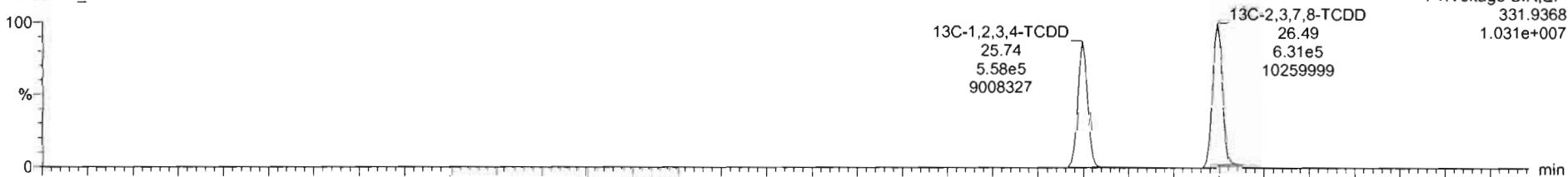
**37Cl-2,3,7,8-TCDD**

200919R2\_7

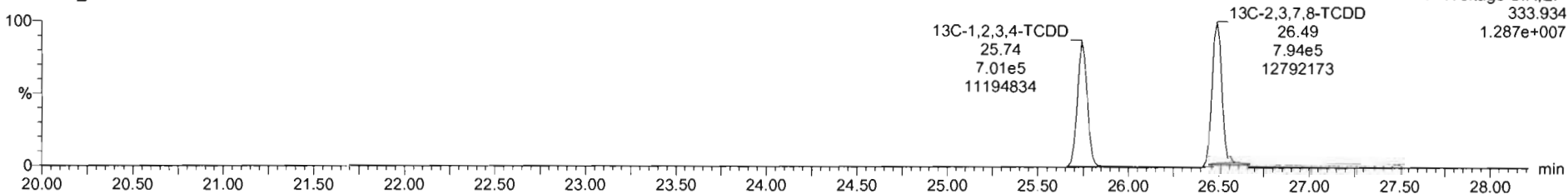


**13C-1,2,3,4-TCDD**

200919R2\_7



200919R2\_7



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

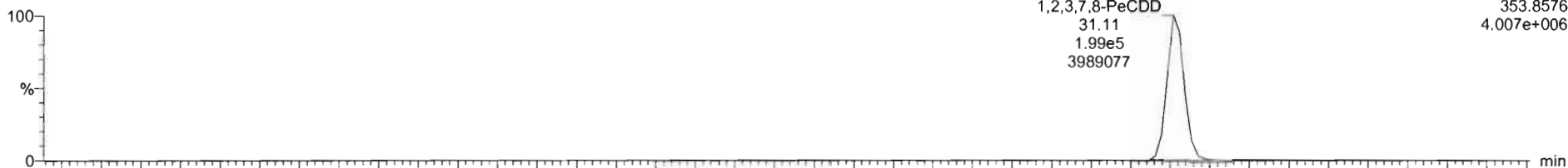
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Printed: Monday, September 21, 2020 11:54:27 Pacific Daylight Time

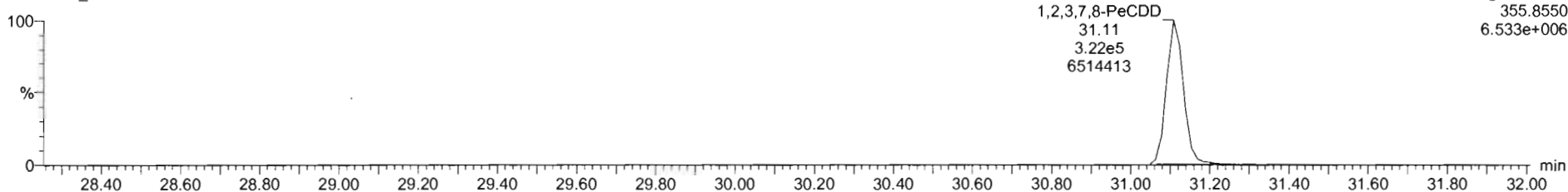
Name: 200919R2\_7, Date: 19-Sep-2020, Time: 18:04:53, ID: SS200919R2\_1 1613 SSS 20F1108, Description: 1613 SSS ~~19L2308~~

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

200919R2\_7

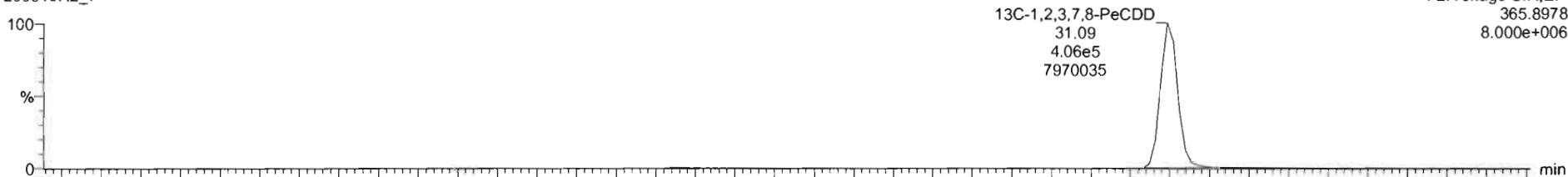


200919R2\_7

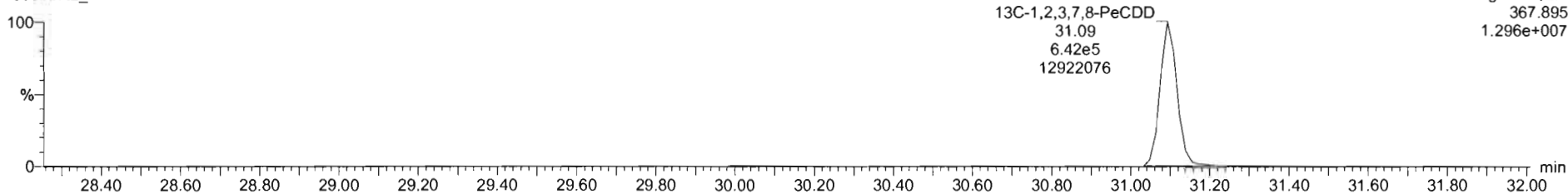


**13C-1,2,3,7,8-PeCDD**

200919R2\_7



200919R2\_7



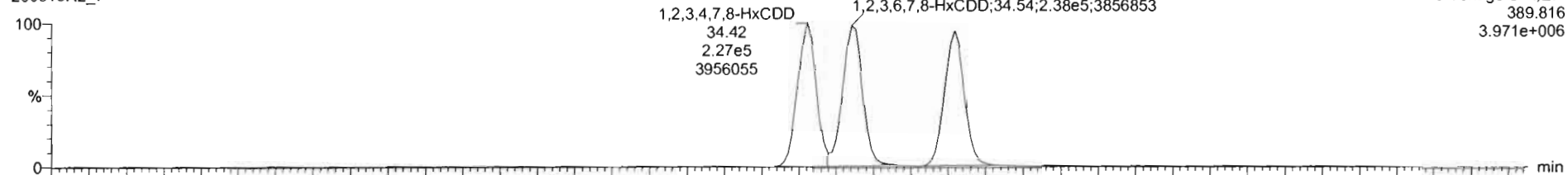
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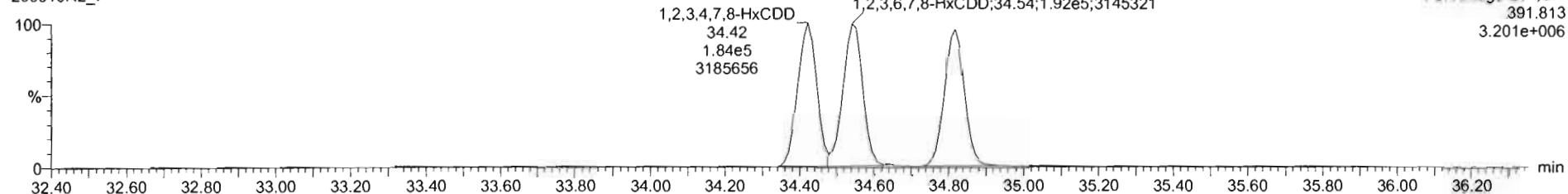
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**1,2,3,4,7,8-HxCDD**

200919R2\_7

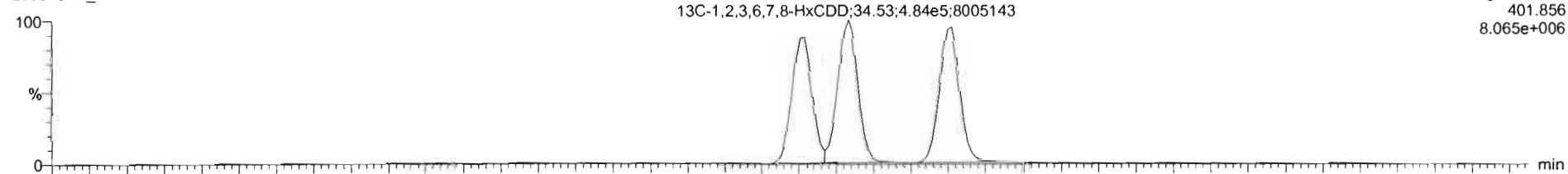


200919R2\_7

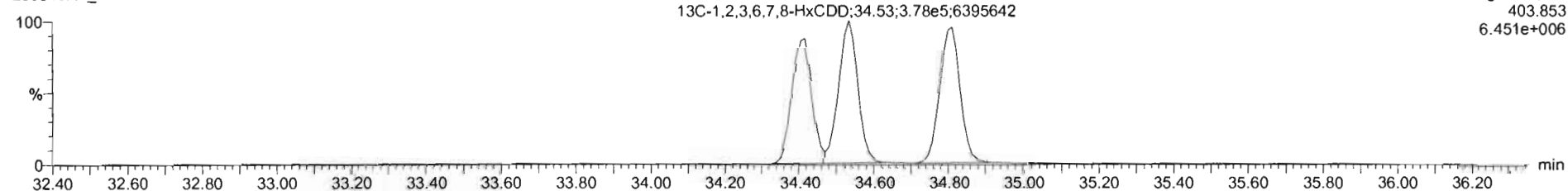


**13C-1,2,3,4,7,8-HxCDD**

200919R2\_7



200919R2\_7



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

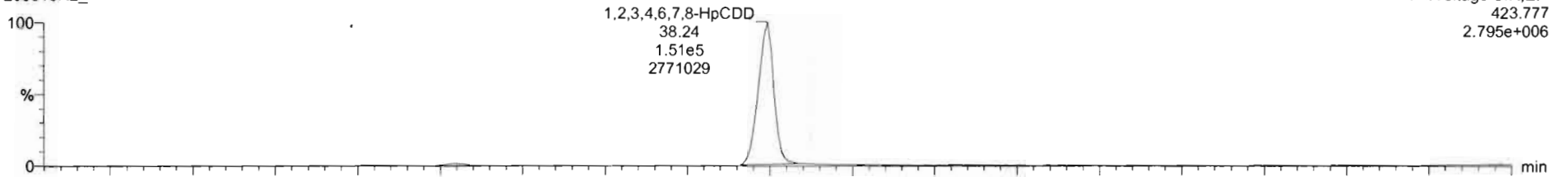
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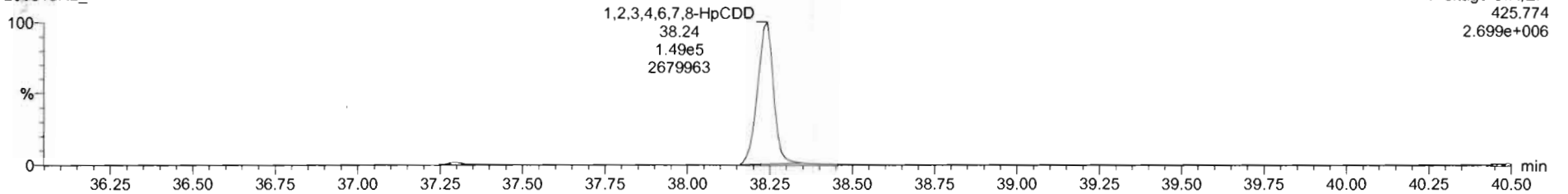
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**1,2,3,4,6,7,8-HpCDD**

200919R2\_7

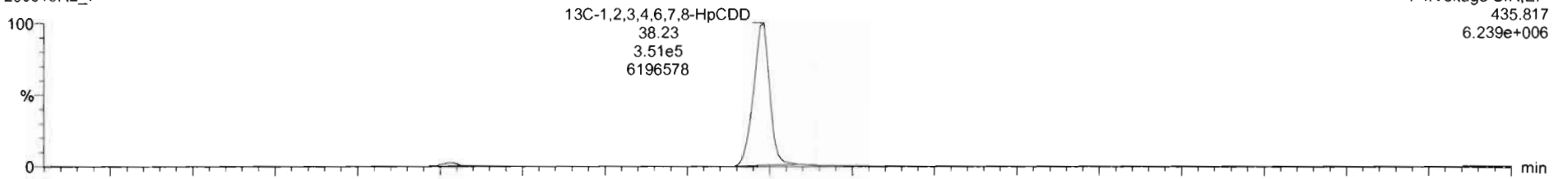


200919R2\_7

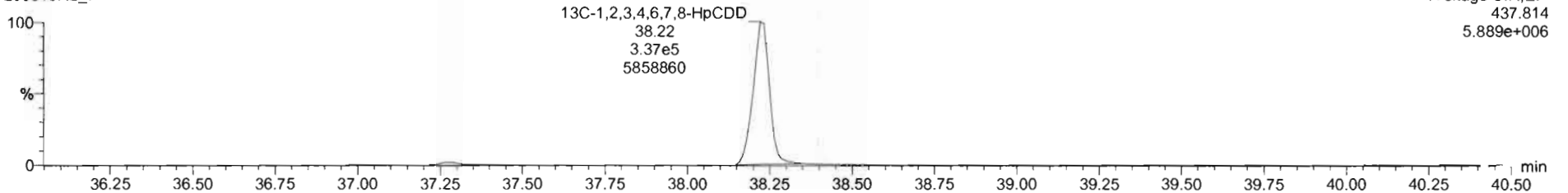


**13C-1,2,3,4,6,7,8-HpCDD**

200919R2\_7



200919R2\_7



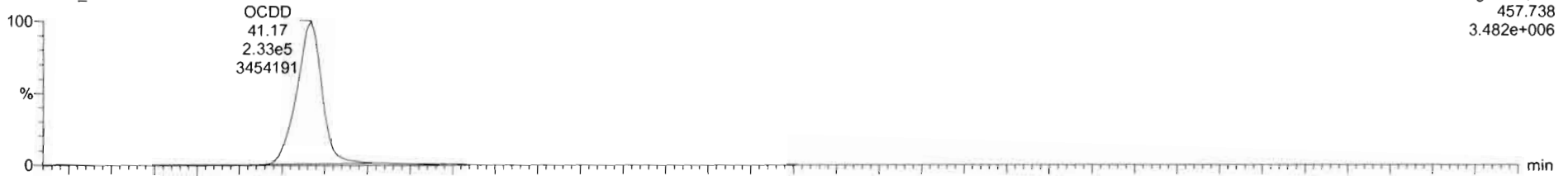
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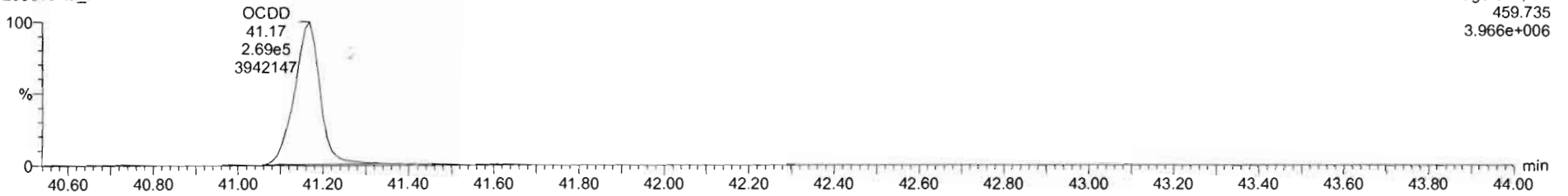
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**OCDD**

200919R2\_7

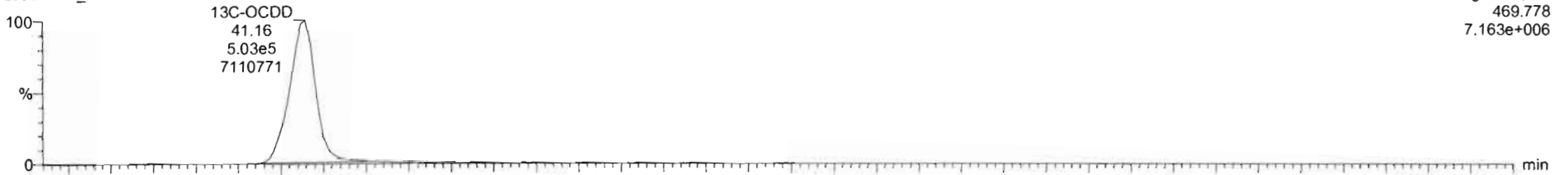


200919R2\_7

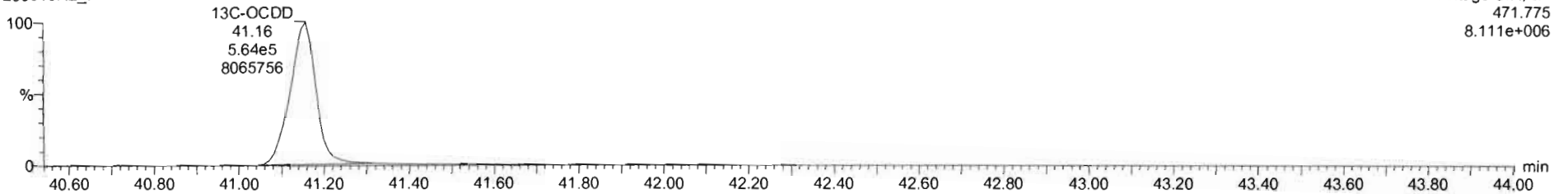


**13C-OCDD**

200919R2\_7



200919R2\_7



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

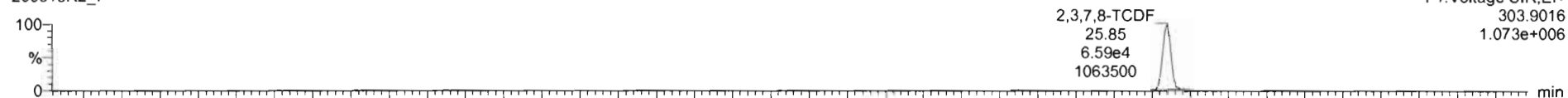
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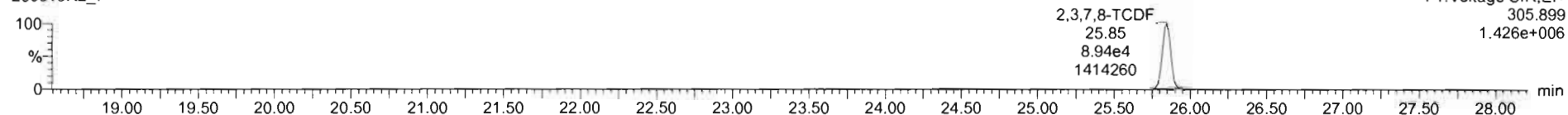
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### 2,3,7,8-TCDF

200919R2\_7

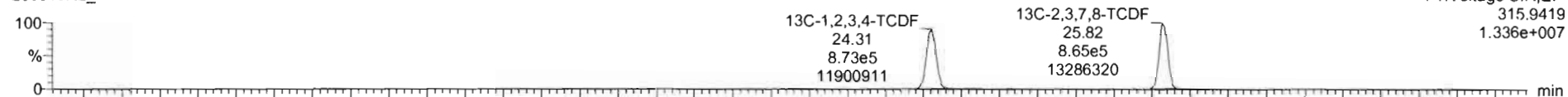


200919R2\_7

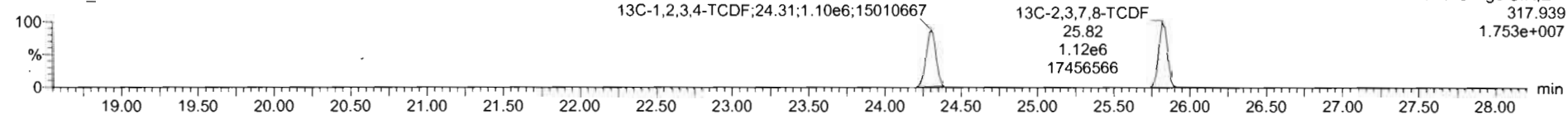


### 13C-2,3,7,8-TCDF

200919R2\_7

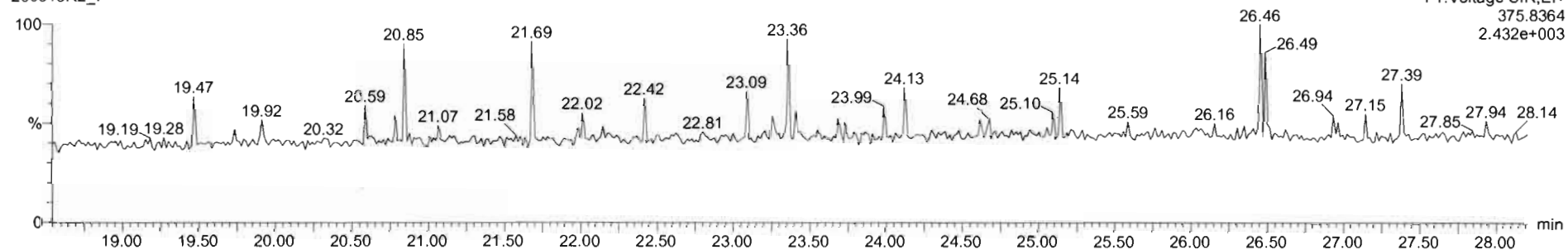


200919R2\_7

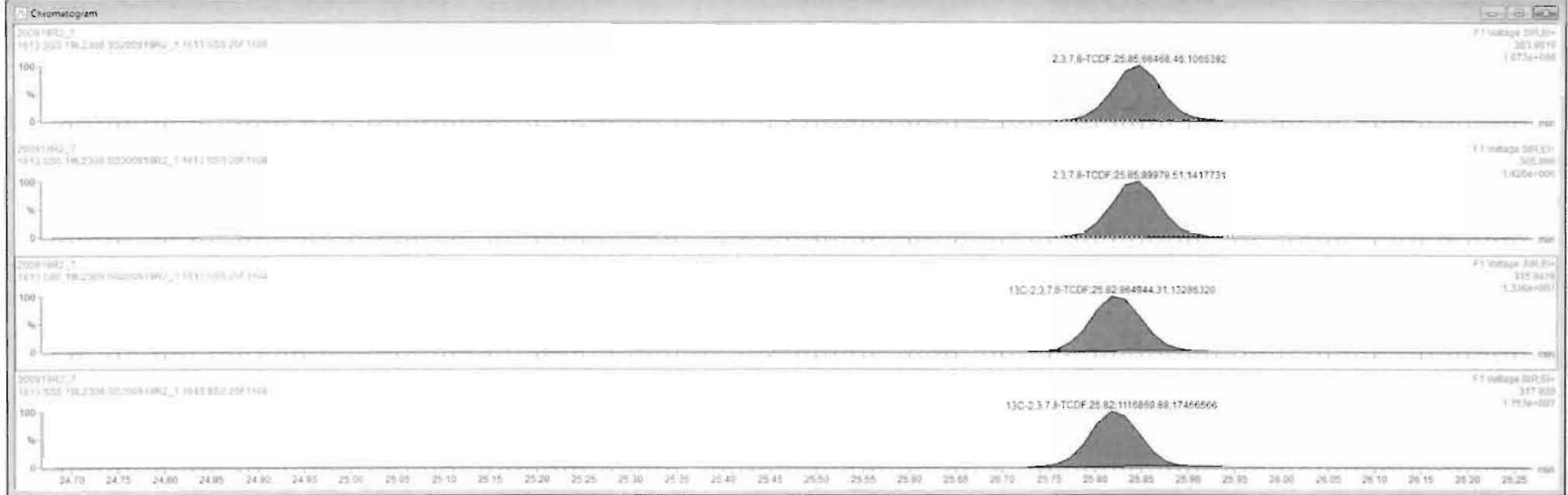


### DPE1

200919R2\_7



ID	Name	Resp	Rn	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDF	1.50e5	0.77	ND	1.01	1.000	28.81	1.001	10.4	104	0.0176	13.4
2	1,2,3,7,8-PeCDD	5.22e5	0.82	ND	0.88	1.000	31.11	1.000	81.0	104	0.2658	81.8
3	1,2,3,4,7,8-HxCDD	4.11e5	1.23	ND	1.01	1.000	34.42	1.000	52.9	108	0.0750	52.9
4	1,2,3,6,7,8-HxCDD	4.31e5	1.24	ND	0.89	1.000	34.94	1.000	58.4	112	0.0750	58.4
5	1,2,3,7,8,9-HxCDD	4.12e5	1.23	ND	0.91	1.000	34.82	1.000	52.7	108	0.0750	52.7
6	1,2,3,4,6,7,8-HpCDD	3.58e5	1.01	ND	0.83	1.000	36.24	1.000	52.7	105	0.137	52.7
7	OCDD	5.22e5	0.87	ND	0.88	1.000	41.17	1.000	111	111	0.246	111
8	2,3,7,8-TCDF	1.56e5	0.74	ND	0.74	1.000	28.88	1.001	10.7	107	0.0278	10.7
9	1,2,3,7,8-PeCDF	7.86e5	1.54	ND	0.94	1.000	29.87	1.001	51.5	103	0.0620	51.5
10	1,2,3,4,7,8-HxCDF	8.53e5	1.53	ND	1.08	1.000	30.93	1.000	54.0	108	0.0569	54.0
11	1,2,3,4,7,8,9-HxCDF	4.81e5	1.19	ND	0.84	1.000	33.51	1.000	55.3	111	0.0860	55.3
12	1,2,3,6,7,8-HpCDF	4.72e5	1.19	ND	0.89	1.000	33.88	1.001	54.0	109	0.0867	54.0
13	1,2,3,4,6,7,8-HpCDF	4.48e5	1.20	ND	0.97	1.000	34.57	1.001	54.4	111	0.104	54.4





Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

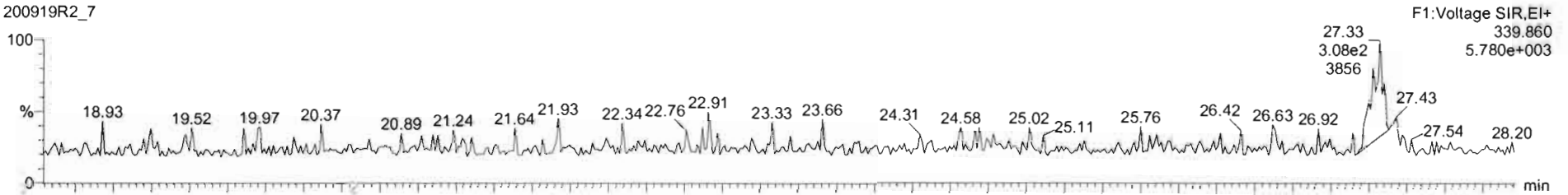
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Printed: Monday, September 21, 2020 11:54:27 Pacific Daylight Time

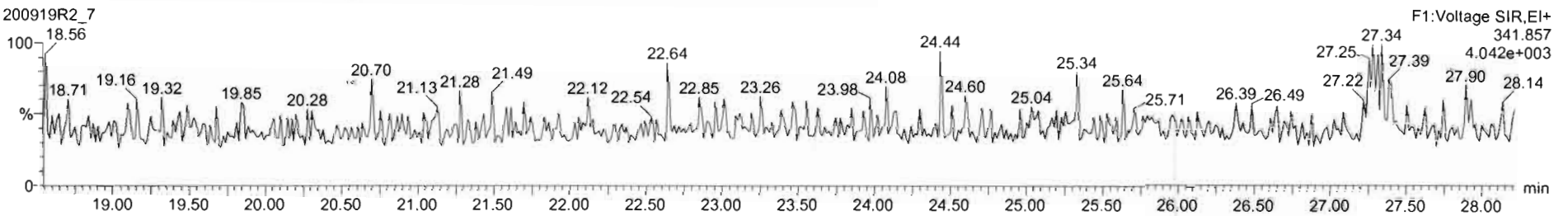
Name: 200919R2\_7, Date: 19-Sep-2020, Time: 18:04:53, ID: SS200919R2\_1 1613 SSS 20F1108, Description: 1613 SSS ~~19L230a~~

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200919R2\_7

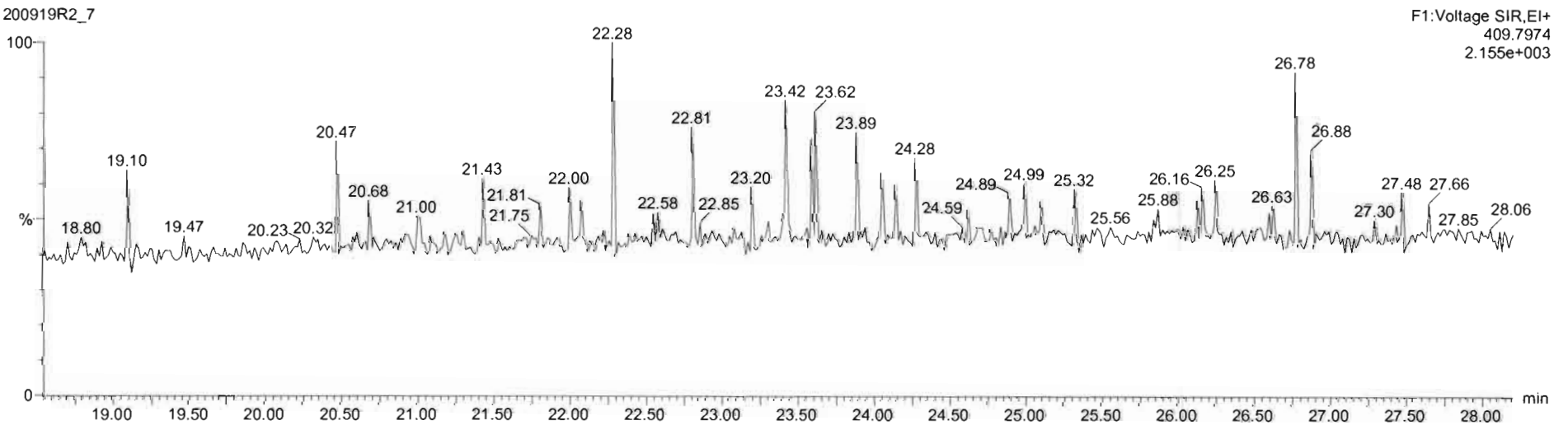


200919R2\_7



DPE6

200919R2\_7



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

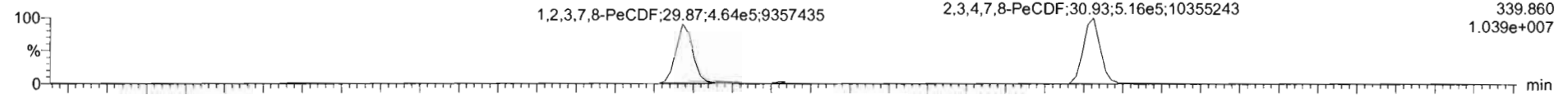
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Printed: Monday, September 21, 2020 11:54:27 Pacific Daylight Time

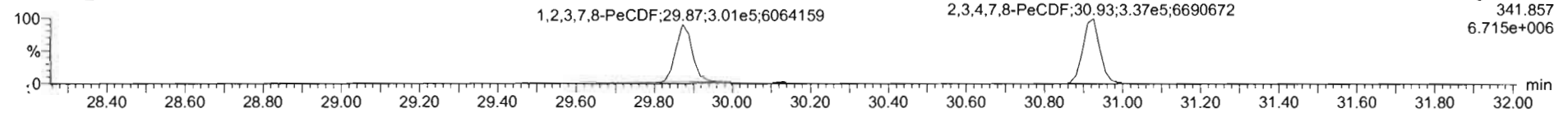
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**1,2,3,7,8-PeCDF**

200919R2\_7

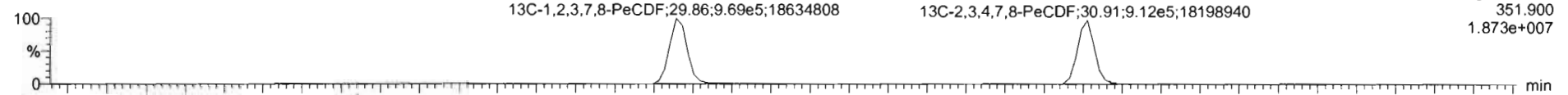


200919R2\_7

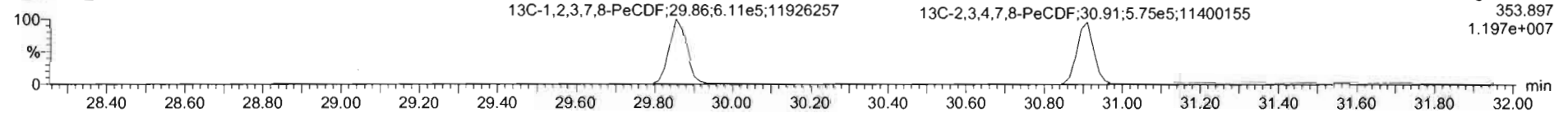


**13C-1,2,3,7,8-PeCDF**

200919R2\_7

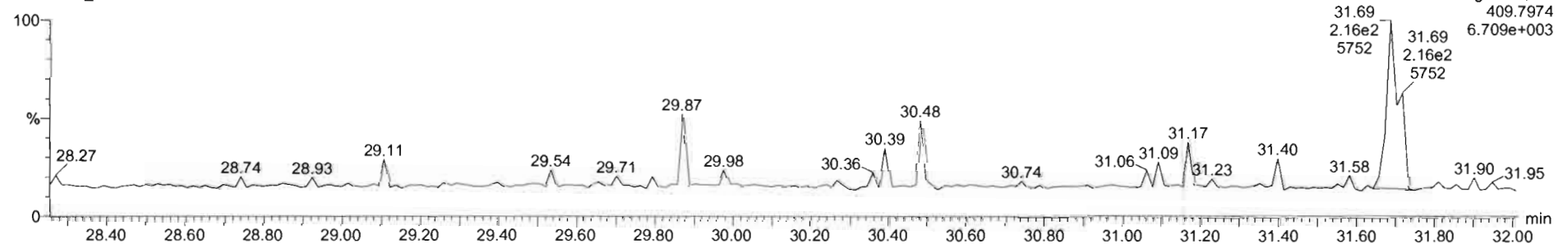


200919R2\_7



**DPE2**

200919R2\_7



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

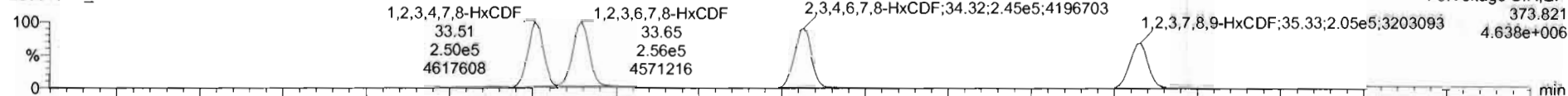
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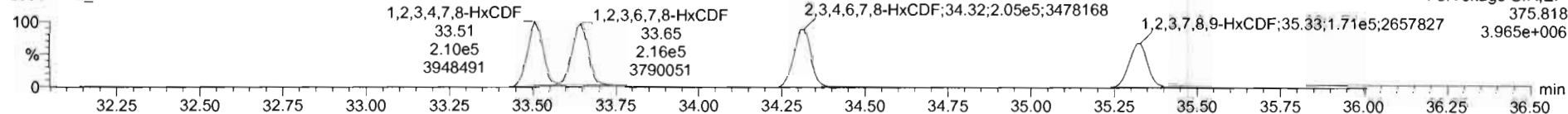
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1,2,3,4,7,8-HxCDF

200919R2\_7

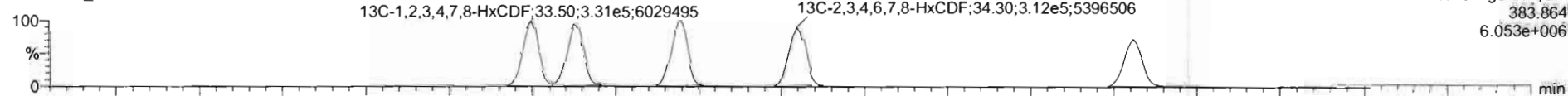


200919R2\_7

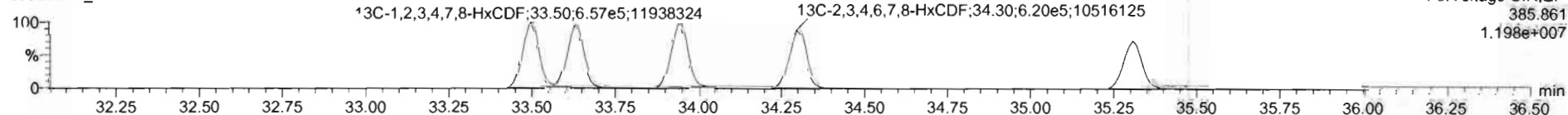


13C-1,2,3,4,7,8-HxCDF

200919R2\_7

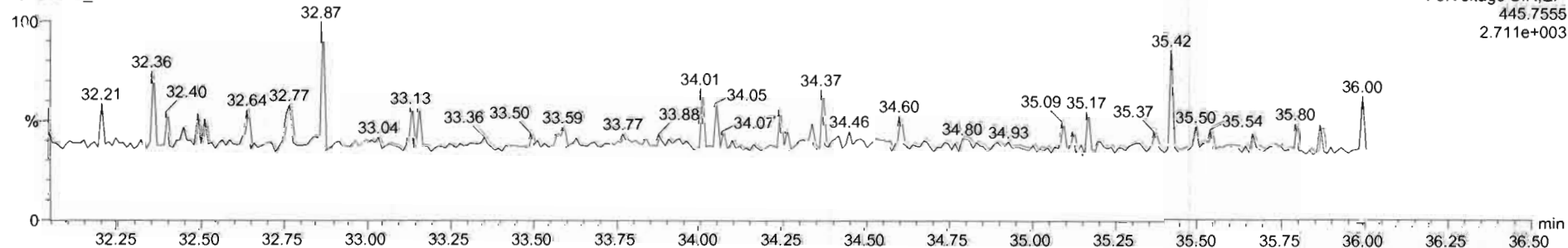


200919R2\_7



DPE3

200919R2\_7



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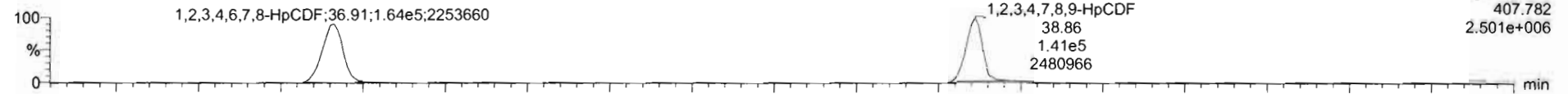
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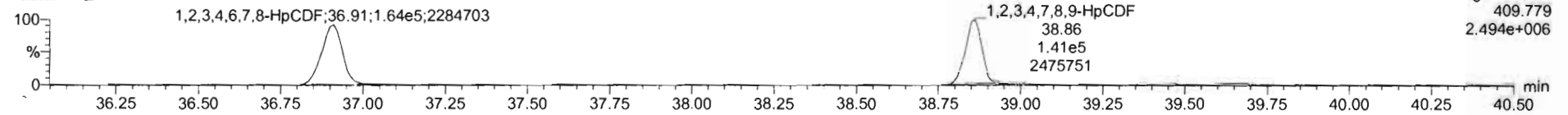
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1,2,3,4,6,7,8-HpCDF

200919R2\_7

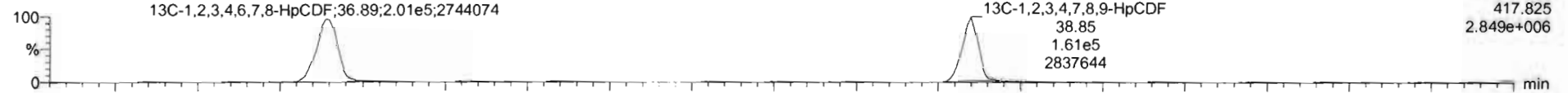


200919R2\_7

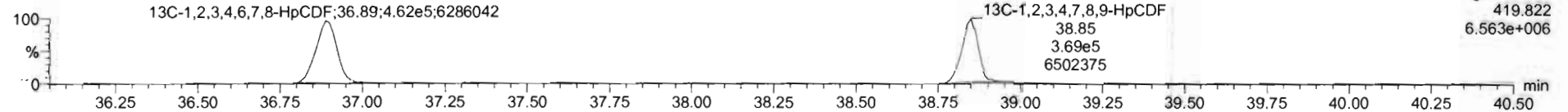


13C-1,2,3,4,6,7,8-HpCDF

200919R2\_7

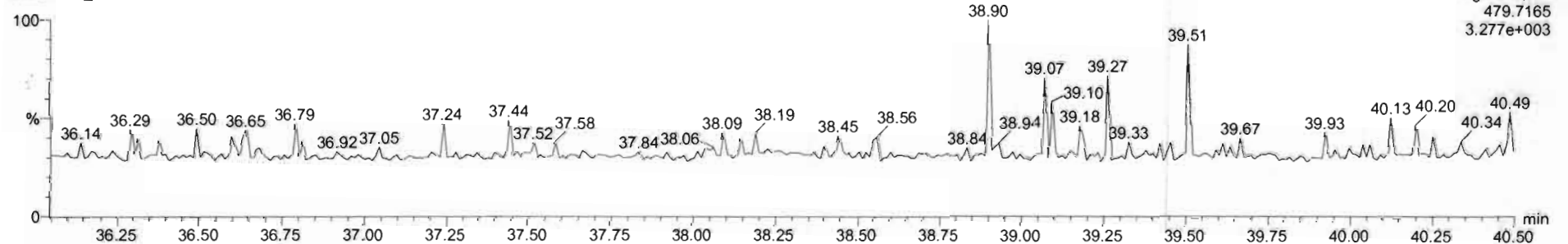


200919R2\_7

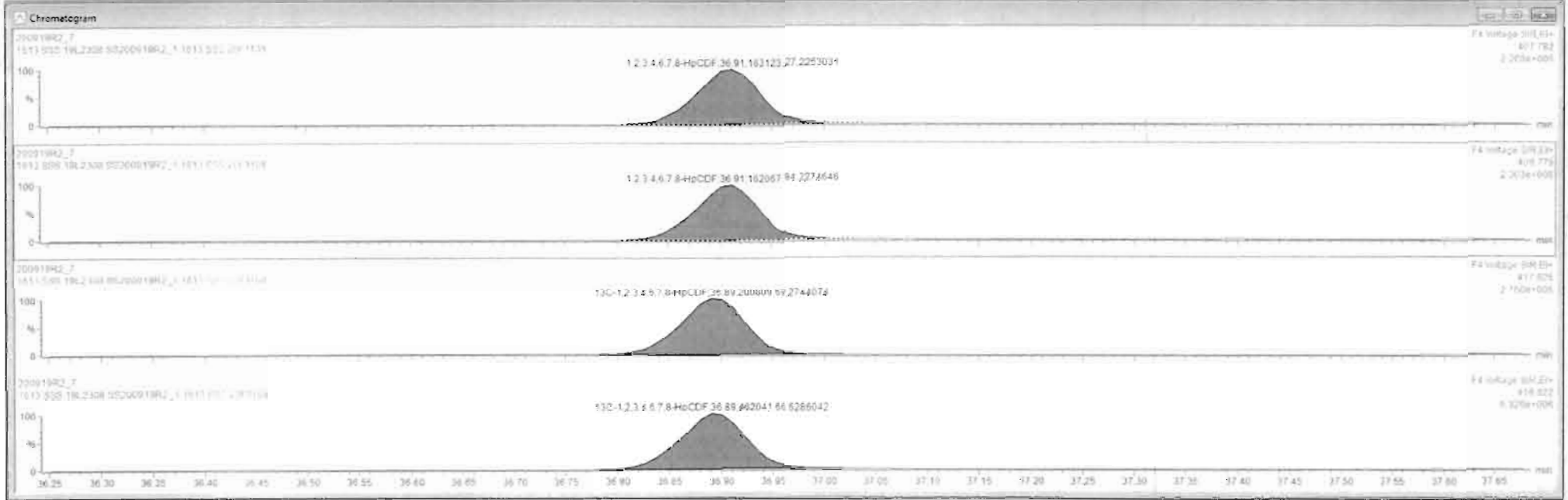


DPE4

200919R2\_7



#	Name	Resp	IS Resp	Prod RA	RA	ny	RRF	Pre RT	RT	RT Flag	Pre RRT	RRT	Conc	SyRec	STD out
10	12-1,2,4,7,8-PeCDF	8.53e5	1.49e5	1.55	1.53	NO	1.0495	33.94	33.93	NO	1.001	1.000	54.5	109	NO
11	12-1,2,3,4,7,8-HxCDF	4.61e5	8.89e5	1.24	1.19	NO	0.8428	33.50	33.51	NO	1.000	1.000	55.3	111	NO
12	12-1,2,3,6,7,8-HxCDF	4.72e5	9.75e5	1.24	1.19	NO	0.5880	33.83	33.85	NO	1.000	1.001	54.4	109	NO
13	12-1,2,3,4,6,7,8-HxCDF	4.49e5	9.32e5	1.24	1.20	NO	0.9080	34.32	34.32	NO	1.001	1.001	55.5	111	NO
14	12-1,2,3,7,8,9-HxCDF	3.76e5	9.25e5	1.24	1.20	NO	0.8537	35.33	35.33	NO	1.001	1.001	53.4	107	NO
15	12-1,2,3,4,6,7,8-HpCDF	5.25e5	6.63e5	1.04	1.01	NO	0.5840	36.90	36.91	NO	1.001	1.001	54.9	110	NO
16	12-1,2,3,4,7,8,9-HpCDF	2.62e5	3.30e5	1.04	1.00	NO	0.8908	36.85	36.86	NO	1.000	1.000	53.7	107	NO
17	OCDF	4.87e5	1.16e5	0.89	0.87	NO	0.7380	41.44	41.48	NO	1.000	1.000	107	107	NO
18	13C-2,3,7,8-TCDD	1.43e6	1.26e6	0.77	0.79	NO	1.1521	26.48	26.49	NO	1.029	1.029	98.3	98.3	NO
19	13C-1,2,3,7,8-PeCDD	1.05e6	1.26e6	0.83	0.83	NO	0.5067	31.58	31.59	NO	1.207	1.208	93.9	93.9	NO
20	13C-1,2,3,4,7,8-HxCDD	7.72e5	1.01e6	1.24	1.27	NO	0.8014	34.42	34.41	NO	1.014	1.014	95.7	95.7	NO
21	13C-1,2,3,6,7,8-HxCDD	6.02e5	1.01e6	1.24	1.26	NO	0.8921	34.54	34.53	NO	1.018	1.017	96.0	96.0	NO
22	13C-1,2,3,7,8,9-HxCDD	8.89e5	1.51e6	1.24	1.26	NO	0.8674	34.61	34.61	NO	1.024	1.024	96.4	96.4	NO



Dataset: U:\VG12.PRO\Results\200919R2\200919R2\_7.qld

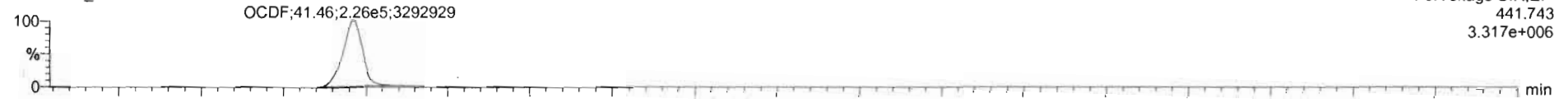
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Printed: Monday, September 21, 2020 11:54:27 Pacific Daylight Time

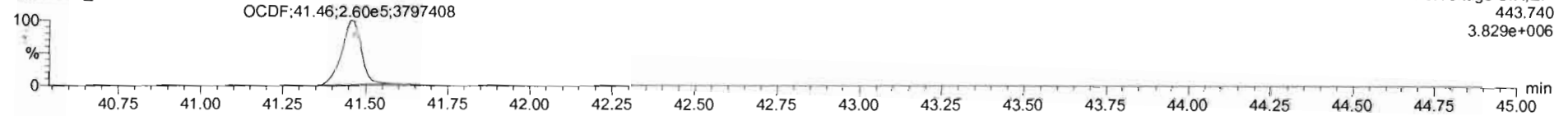
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**OCDF**

200919R2\_7

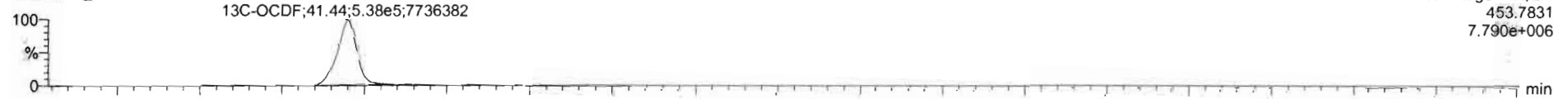


200919R2\_7

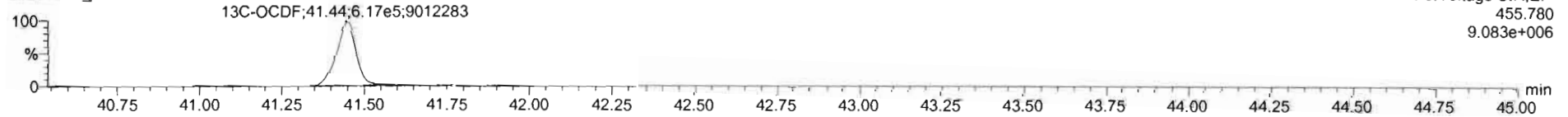


**13C-OCDF**

200919R2\_7

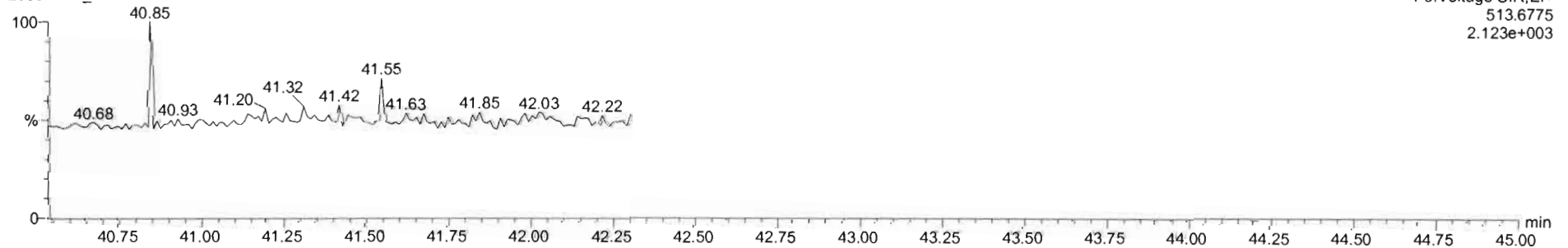


200919R2\_7



**DPE5**

200919R2\_7

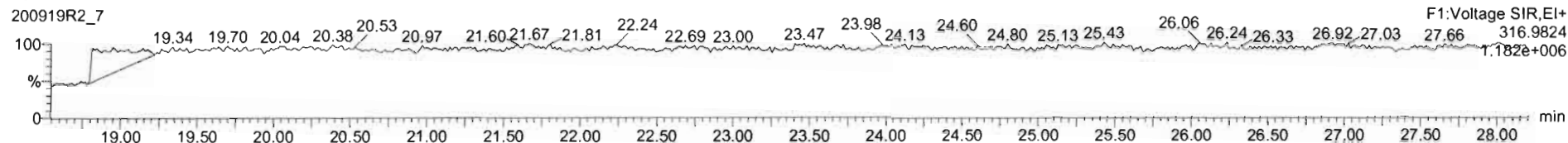


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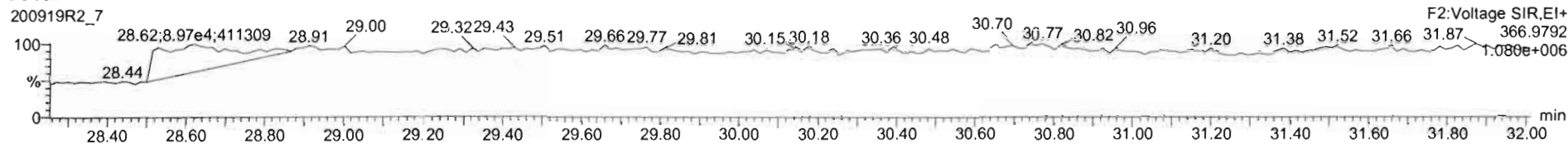
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Printed: Monday, September 21, 2020 11:54:27 Pacific Daylight Time

Name: 200919R2\_7, Date: 19-Sep-2020, Time: 18:04:53, ID: SS200919R2\_1 1613 SSS 20F1108, Description: 1613 SSS ~~491 2308~~

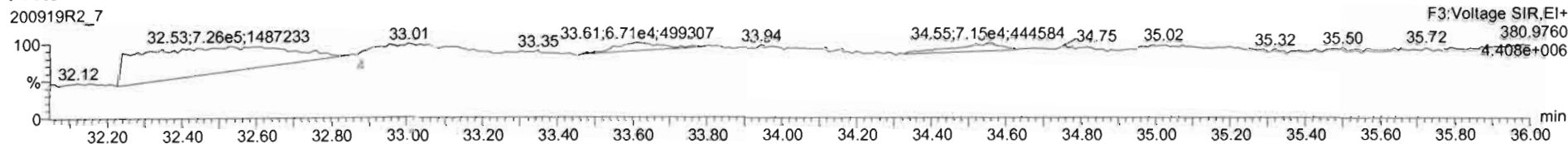
PFK1



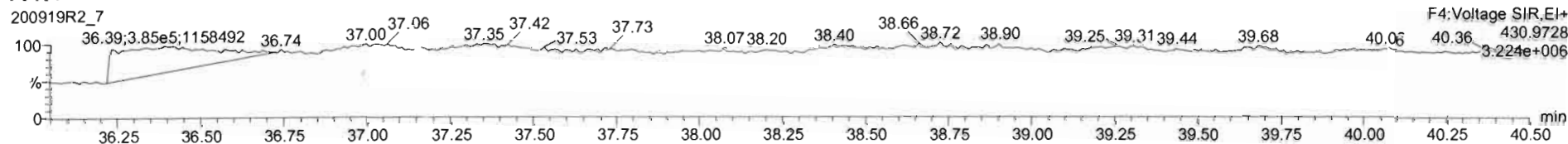
PFK2



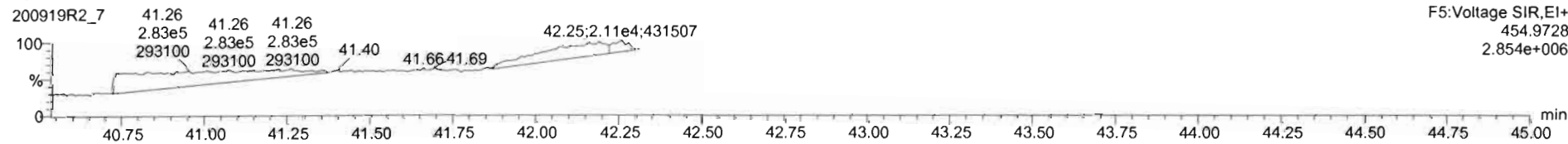
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

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*HIN 10/12/2020*  
 End resolution check has 3 masses  
 less than 10K, ok HIN 10/12/2020

Method: U:\VG12.PRO\MethDB\1613rrt-09-19-20.mdb 20 Sep 2020 09:11:36  
 Calibration: U:\VG12.PRO\CurveDB\ddbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

Compound name: 2,3,7,8-TCDD  
 Response Factor: 1.02629  
 RRF SD: 0.0856569, Relative SD: 8.34626  
 Response type: Internal Std ( Ref 18 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

*GRB 10/13/2020*

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	201009R5_1	0.250	0.81	NO	26.39	1.001	1.69e3	6.20e5	0.265	6.1	1.09	MM
2	201009R5_2	0.500	0.81	NO	26.37	1.001	3.06e3	6.50e5	0.459	-8.2	0.942	bb
3	201009R5_3	2.00	0.75	NO	26.34	1.001	1.18e4	6.39e5	1.80	-10.1	0.922	bb
4	201009R5_4	40.0	0.76	NO	26.36	1.001	2.77e5	6.46e5	41.7	4.4	1.07	bb
5	201009R5_5	300	0.78	NO	26.37	1.001	2.26e6	6.62e5	332	10.7	1.14	bb
6	201009R5_6	10.0	0.77	NO	26.37	1.001	6.29e4	6.30e5	9.72	-2.8	0.997	bb

Compound name: 1,2,3,7,8-PeCDD  
 Response Factor: 0.929269  
 RRF SD: 0.07876, Relative SD: 8.47548  
 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	201009R5_1	1.25	0.64	NO	31.00	1.000	4.42e3	3.99e5	1.19	-4.6	0.886	MM
2	201009R5_2	2.50	0.61	NO	31.00	1.000	9.06e3	4.34e5	2.25	-10.1	0.835	MM
3	201009R5_3	10.0	0.62	NO	30.99	1.000	3.60e4	4.18e5	9.26	-7.4	0.860	bb
4	201009R5_4	200	0.62	NO	31.00	1.000	9.14e5	4.62e5	213	6.5	0.990	bb
5	201009R5_5	1500	0.63	NO	31.00	1.000	8.13e6	5.28e5	1660	10.6	1.03	bb
6	201009R5_6	50.0	0.60	NO	31.00	1.000	2.14e5	4.39e5	52.5	5.1	0.976	bb



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

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**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.07746

RRF SD: 0.0875633, Relative SD: 8.12684

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	201009R5_1	1.25	1.19	NO	34.31	1.000	4.07e3	3.11e5	1.21	-2.8	1.05	bd
2	201009R5_2	2.50	1.20	NO	34.32	1.001	7.83e3	3.27e5	2.22	-11.3	0.956	bd
3	201009R5_3	10.0	1.27	NO	34.29	1.000	3.07e4	3.02e5	9.41	-5.9	1.01	bd
4	201009R5_4	200	1.25	NO	34.31	1.001	8.01e5	3.45e5	215	7.7	1.16	bd
5	201009R5_5	1500	1.24	NO	34.32	1.000	7.39e6	4.16e5	1650	9.8	1.18	bd
6	201009R5_6	50.0	1.26	NO	34.32	1.001	1.82e5	3.29e5	51.3	2.5	1.10	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 0.966954

RRF SD: 0.0700798, Relative SD: 7.24748

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	201009R5_1	1.25	1.37	NO	34.44	1.001	4.07e3	3.40e5	1.24	-1.0	0.957	MM
2	201009R5_2	2.50	1.35	NO	34.42	1.000	8.00e3	3.64e5	2.28	-9.0	0.880	db
3	201009R5_3	10.0	1.26	NO	34.42	1.001	3.05e4	3.42e5	9.25	-7.5	0.894	MM
4	201009R5_4	200	1.26	NO	34.42	1.000	7.88e5	3.91e5	208	4.1	1.01	db
5	201009R5_5	1500	1.24	NO	34.43	1.000	7.31e6	4.60e5	1640	9.6	1.06	db
6	201009R5_6	50.0	1.26	NO	34.43	1.000	1.84e5	3.67e5	51.9	3.8	1.00	dd

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 0.996159

RRF SD: 0.0826071, Relative SD: 8.29256

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	201009R5_1	1.25	1.20	NO	34.71	1.001	3.83e3	3.29e5	1.17	-6.3	0.933	MM
2	201009R5_2	2.50	1.28	NO	34.70	1.000	8.05e3	3.54e5	2.28	-8.7	0.910	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	201009R5_3	10.0	1.28	NO	34.70	1.001	3.08e4	3.30e5	9.36	-6.4	0.933	bb
4	201009R5_4	200	1.25	NO	34.70	1.000	7.94e5	3.75e5	213	6.3	1.06	bb
5	201009R5_5	1500	1.25	NO	34.70	1.000	7.40e6	4.43e5	1680	11.7	1.11	bb
6	201009R5_6	50.0	1.26	NO	34.70	1.000	1.82e5	3.54e5	51.7	3.5	1.03	db

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.946352

RRF SD: 0.0730675, Relative SD: 7.72097

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	201009R5_1	1.25	1.02	NO	38.17	1.001	3.11e3	2.61e5	1.26	0.7	0.953	bb
2	201009R5_2	2.50	1.01	NO	38.16	1.000	5.99e3	2.79e5	2.26	-9.4	0.857	MM
3	201009R5_3	10.0	1.03	NO	38.14	1.000	2.24e4	2.57e5	9.19	-8.1	0.870	MM
4	201009R5_4	200	1.03	NO	38.15	1.000	5.96e5	2.98e5	211	5.6	0.999	bb
5	201009R5_5	1500	1.04	NO	38.16	1.000	5.71e6	3.64e5	1660	10.6	1.05	bb
6	201009R5_6	50.0	1.01	NO	38.15	1.000	1.35e5	2.84e5	50.3	0.6	0.952	bb

**Compound name: OCDD**

Response Factor: 0.924676

RRF SD: 0.0721308, Relative SD: 7.80066

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	201009R5_1	2.50	0.90	NO	41.09	1.000	4.93e3	4.23e5	2.52	1.0	0.934	MM
2	201009R5_2	5.00	0.89	NO	41.08	1.000	9.47e3	4.55e5	4.50	-9.9	0.833	MM
3	201009R5_3	20.0	0.90	NO	41.07	1.000	3.64e4	4.29e5	18.3	-8.3	0.848	bb
4	201009R5_4	400	0.89	NO	41.08	1.000	9.98e5	5.06e5	427	6.8	0.987	bb
5	201009R5_5	3000	0.89	NO	41.09	1.000	1.00e7	6.59e5	3280	9.5	1.01	bb
6	201009R5_6	100	0.88	NO	41.08	1.000	2.16e5	4.62e5	101	0.9	0.933	bb

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

Response Factor: 0.869067

RRF SD: 0.0855229, Relative SD: 9.84078

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	201009R5_1	0.250	0.75	NO	25.70	1.001	1.83e3	9.04e5	0.232	-7.1	0.808	MM
2	201009R5_2	0.500	0.74	NO	25.68	1.001	3.61e3	9.31e5	0.447	-10.7	0.776	MM
3	201009R5_3	2.00	0.75	NO	25.67	1.001	1.48e4	9.19e5	1.86	-7.2	0.807	MM
4	201009R5_4	40.0	0.76	NO	25.68	1.001	3.47e5	9.28e5	43.1	7.7	0.936	bb
5	201009R5_5	300	0.77	NO	25.68	1.001	2.75e6	9.23e5	342	14.2	0.992	bb
6	201009R5_6	10.0	0.75	NO	25.68	1.001	8.09e4	9.03e5	10.3	3.1	0.896	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 0.988687

RRF SD: 0.0924861, Relative SD: 9.35444

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	201009R5_1	1.25	1.74	NO	29.77	1.000	7.31e3	6.63e5	1.12	-10.8	0.882	MM
2	201009R5_2	2.50	1.60	NO	29.75	1.001	1.48e4	6.55e5	2.28	-8.8	0.902	MM
3	201009R5_3	10.0	1.59	NO	29.75	1.000	6.04e4	6.43e5	9.50	-5.0	0.939	MM
4	201009R5_4	200	1.56	NO	29.75	1.000	1.49e6	7.06e5	213	6.6	1.05	bb
5	201009R5_5	1500	1.57	NO	29.77	1.000	1.28e7	7.71e5	1670	11.7	1.10	bb
6	201009R5_6	50.0	1.59	NO	29.75	1.000	3.56e5	6.77e5	53.2	6.3	1.05	bb

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 1.09704

RRF SD: 0.0870613, Relative SD: 7.93604

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	201009R5_1	1.25	1.63	NO	30.80	1.000	7.65e3	6.00e5	1.16	-7.1	1.02	MM
2	201009R5_2	2.50	1.67	NO	30.80	1.001	1.64e4	6.58e5	2.27	-9.1	0.997	bb

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**Compound name: 2,3,4,7,8-PeCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201009R5_3	10.0	1.52	NO	30.79	1.000	6.58e4	6.31e5	9.50	-5.0	1.04	bb
4	201009R5_4	200	1.55	NO	30.80	1.000	1.62e6	6.89e5	215	7.4	1.18	bb
5	201009R5_5	1500	1.55	NO	30.82	1.000	1.40e7	7.86e5	1630	8.7	1.19	bb
6	201009R5_6	50.0	1.58	NO	30.80	1.000	3.79e5	6.57e5	52.6	5.2	1.15	bb

**Compound name: 1,2,3,4,7,8-HxCDF**

Response Factor: 0.996211

RRF SD: 0.0961152, Relative SD: 9.64807

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	201009R5_1	1.25	1.29	NO	33.41	1.001	5.01e3	4.30e5	1.17	-6.4	0.933	MM
2	201009R5_2	2.50	1.17	NO	33.39	1.000	1.02e4	4.65e5	2.21	-11.7	0.880	bd
3	201009R5_3	10.0	1.22	NO	33.39	1.001	4.04e4	4.37e5	9.28	-7.2	0.925	bd
4	201009R5_4	200	1.23	NO	33.40	1.001	1.04e6	4.90e5	213	6.6	1.06	bd
5	201009R5_5	1500	1.22	NO	33.40	1.000	9.44e6	5.62e5	1690	12.4	1.12	bd
6	201009R5_6	50.0	1.23	NO	33.40	1.000	2.45e5	4.62e5	53.1	6.2	1.06	bd

**Compound name: 1,2,3,6,7,8-HxCDF**

Response Factor: 1.03744

RRF SD: 0.0988703, Relative SD: 9.53023

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	201009R5_1	1.25	1.23	NO	33.54	1.001	5.51e3	4.44e5	1.20	-4.3	0.992	MM
2	201009R5_2	2.50	1.08	NO	33.54	1.001	1.05e4	4.69e5	2.16	-13.6	0.896	db
3	201009R5_3	10.0	1.25	NO	33.53	1.001	4.27e4	4.39e5	9.36	-6.4	0.972	db
4	201009R5_4	200	1.23	NO	33.54	1.001	1.11e6	4.96e5	216	8.1	1.12	db
5	201009R5_5	1500	1.21	NO	33.54	1.000	1.00e7	5.83e5	1660	10.5	1.15	db
6	201009R5_6	50.0	1.23	NO	33.54	1.000	2.58e5	4.71e5	52.8	5.7	1.10	db

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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 1.03961

RRF SD: 0.0889153, Relative SD: 8.55274

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	201009R5_1	1.25	1.19	NO	34.20	1.000	5.11e3	4.15e5	1.18	-5.2	0.985	MM
2	201009R5_2	2.50	1.31	NO	34.20	1.001	1.07e4	4.54e5	2.27	-9.1	0.945	MM
3	201009R5_3	10.0	1.24	NO	34.19	1.000	4.06e4	4.24e5	9.22	-7.8	0.958	bb
4	201009R5_4	200	1.22	NO	34.20	1.001	1.03e6	4.65e5	214	6.9	1.11	bb
5	201009R5_5	1500	1.21	NO	34.20	1.000	9.45e6	5.44e5	1670	11.5	1.16	bb
6	201009R5_6	50.0	1.22	NO	34.21	1.001	2.41e5	4.47e5	51.9	3.9	1.08	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 1.00813

RRF SD: 0.0918286, Relative SD: 9.10879

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	201009R5_1	1.25	1.23	NO	35.21	1.001	4.08e3	3.49e5	1.16	-7.2	0.935	MM
2	201009R5_2	2.50	1.22	NO	35.21	1.001	8.60e3	3.75e5	2.28	-9.0	0.918	MM
3	201009R5_3	10.0	1.26	NO	35.19	1.000	3.21e4	3.45e5	9.24	-7.6	0.931	MM
4	201009R5_4	200	1.23	NO	35.20	1.000	8.66e5	3.99e5	215	7.7	1.09	bb
5	201009R5_5	1500	1.22	NO	35.20	1.000	8.09e6	4.77e5	1680	12.2	1.13	bb
6	201009R5_6	50.0	1.23	NO	35.20	1.000	1.99e5	3.79e5	52.0	3.9	1.05	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 1.05549

RRF SD: 0.0949083, Relative SD: 8.99187

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	201009R5_1	1.25	0.99	NO	36.78	1.000	4.04e3	3.24e5	1.18	-5.5	0.998	MM
2	201009R5_2	2.50	1.00	NO	36.79	1.001	8.06e3	3.38e5	2.26	-9.6	0.954	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	201009R5_3	10.0	1.03	NO	36.76	1.000	3.06e4	3.15e5	9.20	-8.0	0.971	MM
4	201009R5_4	200	1.01	NO	36.78	1.001	8.13e5	3.58e5	215	7.6	1.14	bb
5	201009R5_5	1500	1.01	NO	36.78	1.000	7.58e6	4.27e5	1680	12.2	1.18	bb
6	201009R5_6	50.0	1.01	NO	36.78	1.001	1.84e5	3.38e5	51.6	3.2	1.09	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.1774

RRF SD: 0.113767, Relative SD: 9.66255

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	201009R5_1	1.25	1.01	NO	38.76	1.000	3.69e3	2.54e5	1.24	-1.1	1.16	MM
2	201009R5_2	2.50	1.04	NO	38.78	1.000	6.92e3	2.69e5	2.19	-12.5	1.03	MM
3	201009R5_3	10.0	1.01	NO	38.76	1.000	2.54e4	2.38e5	9.05	-9.5	1.07	bb
4	201009R5_4	200	1.02	NO	38.76	1.000	7.25e5	2.84e5	217	8.3	1.28	bb
5	201009R5_5	1500	1.01	NO	38.79	1.000	6.83e6	3.46e5	1680	11.9	1.32	bb
6	201009R5_6	50.0	1.03	NO	38.76	1.000	1.55e5	2.55e5	51.5	2.9	1.21	bb

**Compound name: OCDF**

Response Factor: 0.928607

RRF SD: 0.0733669, Relative SD: 7.90075

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	201009R5_1	2.50	0.87	NO	41.38	1.000	6.21e3	5.16e5	2.59	3.6	0.962	MM
2	201009R5_2	5.00	0.87	NO	41.37	1.000	1.13e4	5.45e5	4.47	-10.6	0.830	MM
3	201009R5_3	20.0	0.87	NO	41.36	1.000	4.33e4	5.12e5	18.2	-8.9	0.846	MM
4	201009R5_4	400	0.88	NO	41.37	1.000	1.21e6	6.24e5	418	4.6	0.972	bb
5	201009R5_5	3000	0.89	NO	41.38	1.000	1.21e7	7.96e5	3270	9.1	1.01	bb
6	201009R5_6	100	0.89	NO	41.38	1.000	2.58e5	5.45e5	102	2.1	0.948	bb

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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.13997

RRF SD: 0.0273636, Relative SD: 2.40037

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	201009R5_1	100	0.78	NO	26.36	1.030	6.20e5	5.60e5	97.1	-2.9	1.11	bb
2	201009R5_2	100	0.79	NO	26.34	1.029	6.50e5	5.73e5	99.5	-0.5	1.13	bb
3	201009R5_3	100	0.77	NO	26.33	1.029	6.39e5	5.63e5	99.5	-0.5	1.13	bb
4	201009R5_4	100	0.77	NO	26.34	1.029	6.46e5	5.68e5	99.7	-0.3	1.14	bb
5	201009R5_5	100	0.79	NO	26.34	1.029	6.62e5	5.56e5	104	4.4	1.19	bb
6	201009R5_6	100	0.79	NO	26.34	1.029	6.30e5	5.54e5	99.8	-0.2	1.14	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.794165

RRF SD: 0.0834591, Relative SD: 10.509

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	201009R5_1	100	0.62	NO	30.99	1.211	3.99e5	5.60e5	89.8	-10.2	0.713	bb
2	201009R5_2	100	0.62	NO	30.99	1.211	4.34e5	5.73e5	95.4	-4.6	0.758	bb
3	201009R5_3	100	0.64	NO	30.97	1.211	4.18e5	5.63e5	93.4	-6.6	0.742	bb
4	201009R5_4	100	0.63	NO	30.99	1.211	4.62e5	5.68e5	102	2.3	0.813	bb
5	201009R5_5	100	0.63	NO	30.99	1.211	5.28e5	5.56e5	119	19.4	0.949	bb
6	201009R5_6	100	0.63	NO	30.99	1.211	4.39e5	5.54e5	99.6	-0.4	0.791	bb

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

Response Factor: 0.698275

RRF SD: 0.0564673, Relative SD: 8.08668

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	201009R5_1	100	1.29	NO	34.29	1.013	3.11e5	4.73e5	94.3	-5.7	0.658	bd
2	201009R5_2	100	1.29	NO	34.29	1.014	3.27e5	4.82e5	97.2	-2.8	0.679	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	201009R5_3	100	1.32	NO	34.28	1.014	3.02e5	4.54e5	95.5	-4.5	0.667	bd
4	201009R5_4	100	1.29	NO	34.28	1.013	3.45e5	4.99e5	99.0	-1.0	0.692	bd
5	201009R5_5	100	1.29	NO	34.31	1.014	4.16e5	5.13e5	116	16.1	0.811	bd
6	201009R5_6	100	1.30	NO	34.29	1.013	3.29e5	4.81e5	97.9	-2.1	0.684	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 0.778107  
 RRF SD: 0.0608593, Relative SD: 7.82145  
 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	201009R5_1	100	1.28	NO	34.42	1.017	3.40e5	4.73e5	92.5	-7.5	0.720	db
2	201009R5_2	100	1.27	NO	34.41	1.017	3.64e5	4.82e5	96.9	-3.1	0.754	db
3	201009R5_3	100	1.28	NO	34.40	1.017	3.42e5	4.54e5	96.8	-3.2	0.753	db
4	201009R5_4	100	1.25	NO	34.41	1.017	3.91e5	4.99e5	101	0.7	0.784	db
5	201009R5_5	100	1.27	NO	34.42	1.018	4.60e5	5.13e5	115	15.0	0.895	db
6	201009R5_6	100	1.27	NO	34.42	1.017	3.67e5	4.81e5	98.1	-1.9	0.763	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.750961  
 RRF SD: 0.0581302, Relative SD: 7.74079  
 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	201009R5_1	100	1.26	NO	34.69	1.025	3.29e5	4.73e5	92.6	-7.4	0.695	bb
2	201009R5_2	100	1.25	NO	34.69	1.025	3.54e5	4.82e5	97.7	-2.3	0.733	bb
3	201009R5_3	100	1.27	NO	34.68	1.026	3.30e5	4.54e5	96.8	-3.2	0.727	bd
4	201009R5_4	100	1.24	NO	34.69	1.026	3.75e5	4.99e5	100	0.0	0.751	bb
5	201009R5_5	100	1.27	NO	34.69	1.026	4.43e5	5.13e5	115	15.0	0.864	bb
6	201009R5_6	100	1.26	NO	34.69	1.025	3.54e5	4.81e5	97.9	-2.1	0.735	bb



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

Response Factor: 0.599236  
 RRF SD: 0.0558219, Relative SD: 9.31551  
 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	201009R5_1	100	1.07	NO	38.15	1.127	2.61e5	4.73e5	92.2	-7.8	0.553	bb
2	201009R5_2	100	1.05	NO	38.15	1.128	2.79e5	4.82e5	96.6	-3.4	0.579	bb
3	201009R5_3	100	1.04	NO	38.13	1.127	2.57e5	4.54e5	94.6	-5.4	0.567	bb
4	201009R5_4	100	1.05	NO	38.14	1.127	2.98e5	4.99e5	99.7	-0.3	0.598	bb
5	201009R5_5	100	1.03	NO	38.15	1.128	3.64e5	5.13e5	118	18.2	0.708	bb
6	201009R5_6	100	1.05	NO	38.14	1.127	2.84e5	4.81e5	98.6	-1.4	0.591	bb

**Compound name: 13C-OCDD**

Response Factor: 0.503182  
 RRF SD: 0.0705128, Relative SD: 14.0134  
 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	201009R5_1	200	0.88	NO	41.07	1.214	4.23e5	4.73e5	178	-11.1	0.447	bb
2	201009R5_2	200	0.90	NO	41.07	1.214	4.55e5	4.82e5	187	-6.4	0.471	bb
3	201009R5_3	200	0.91	NO	41.06	1.214	4.29e5	4.54e5	188	-6.1	0.472	bd
4	201009R5_4	200	0.89	NO	41.06	1.214	5.06e5	4.99e5	201	0.6	0.506	bb
5	201009R5_5	200	0.90	NO	41.09	1.215	6.59e5	5.13e5	255	27.5	0.642	bb
6	201009R5_6	200	0.89	NO	41.08	1.214	4.62e5	4.81e5	191	-4.6	0.480	bb

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 0.994269  
 RRF SD: 0.014754, Relative SD: 1.48391  
 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	201009R5_1	100	0.79	NO	25.68	1.003	9.04e5	9.30e5	97.7	-2.3	0.971	bb
2	201009R5_2	100	0.78	NO	25.67	1.003	9.31e5	9.43e5	99.3	-0.7	0.987	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	201009R5_3	100	0.78	NO	25.65	1.003	9.19e5	9.26e5	99.9	-0.1	0.993	bb
4	201009R5_4	100	0.78	NO	25.67	1.003	9.28e5	9.32e5	100	0.1	0.995	bb
5	201009R5_5	100	0.78	NO	25.67	1.003	9.23e5	9.20e5	101	1.0	1.00	bb
6	201009R5_6	100	0.79	NO	25.67	1.003	9.03e5	8.90e5	102	2.1	1.01	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.743157

RRF SD: 0.0550849, Relative SD: 7.41228

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	201009R5_1	100	1.60	NO	29.75	1.163	6.63e5	9.30e5	95.9	-4.1	0.713	bb
2	201009R5_2	100	1.56	NO	29.74	1.162	6.55e5	9.43e5	93.5	-6.5	0.695	bb
3	201009R5_3	100	1.58	NO	29.74	1.163	6.43e5	9.26e5	93.5	-6.5	0.695	bb
4	201009R5_4	100	1.56	NO	29.74	1.162	7.06e5	9.32e5	102	1.9	0.758	bb
5	201009R5_5	100	1.58	NO	29.75	1.163	7.71e5	9.20e5	113	12.8	0.838	bb
6	201009R5_6	100	1.59	NO	29.74	1.162	6.77e5	8.90e5	102	2.3	0.760	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.726197

RRF SD: 0.0720685, Relative SD: 9.9241

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	201009R5_1	100	1.62	NO	30.80	1.204	6.00e5	9.30e5	88.9	-11.1	0.645	bb
2	201009R5_2	100	1.57	NO	30.79	1.203	6.58e5	9.43e5	96.2	-3.8	0.698	bb
3	201009R5_3	100	1.62	NO	30.79	1.204	6.31e5	9.26e5	93.9	-6.1	0.682	bb
4	201009R5_4	100	1.59	NO	30.79	1.203	6.89e5	9.32e5	102	1.8	0.739	bb
5	201009R5_5	100	1.59	NO	30.80	1.204	7.86e5	9.20e5	118	17.6	0.854	bb
6	201009R5_6	100	1.62	NO	30.80	1.204	6.57e5	8.90e5	102	1.6	0.738	bb

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

Response Factor: 0.97879

RRF SD: 0.0616512, Relative SD: 6.29871

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	201009R5_1	100	0.51	NO	33.39	0.987	4.30e5	4.73e5	92.9	-7.1	0.910	bd
2	201009R5_2	100	0.51	NO	33.39	0.987	4.65e5	4.82e5	98.5	-1.5	0.964	bd
3	201009R5_3	100	0.51	NO	33.37	0.987	4.37e5	4.54e5	98.4	-1.6	0.963	bd
4	201009R5_4	100	0.52	NO	33.38	0.987	4.90e5	4.99e5	100	0.2	0.981	bd
5	201009R5_5	100	0.50	NO	33.39	0.987	5.62e5	5.13e5	112	11.8	1.09	bd
6	201009R5_6	100	0.52	NO	33.39	0.987	4.62e5	4.81e5	98.1	-1.9	0.960	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 0.998023

RRF SD: 0.0696945, Relative SD: 6.98326

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	201009R5_1	100	0.50	NO	33.52	0.991	4.44e5	4.73e5	94.2	-5.8	0.940	db
2	201009R5_2	100	0.51	NO	33.52	0.991	4.69e5	4.82e5	97.5	-2.5	0.973	db
3	201009R5_3	100	0.51	NO	33.51	0.991	4.39e5	4.54e5	97.0	-3.0	0.968	db
4	201009R5_4	100	0.52	NO	33.52	0.991	4.96e5	4.99e5	99.5	-0.5	0.993	db
5	201009R5_5	100	0.51	NO	33.53	0.991	5.83e5	5.13e5	114	13.8	1.14	db
6	201009R5_6	100	0.51	NO	33.53	0.991	4.71e5	4.81e5	98.0	-2.0	0.978	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 0.945479

RRF SD: 0.0603309, Relative SD: 6.38099

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	201009R5_1	100	0.52	NO	34.19	1.010	4.15e5	4.73e5	92.8	-7.2	0.877	bb
2	201009R5_2	100	0.52	NO	34.18	1.010	4.54e5	4.82e5	99.5	-0.5	0.941	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	201009R5_3	100	0.51	NO	34.18	1.011	4.24e5	4.54e5	98.8	-1.2	0.934	bb
4	201009R5_4	100	0.51	NO	34.18	1.010	4.65e5	4.99e5	98.6	-1.4	0.932	bb
5	201009R5_5	100	0.51	NO	34.19	1.011	5.44e5	5.13e5	112	12.0	1.06	bb
6	201009R5_6	100	0.50	NO	34.19	1.010	4.47e5	4.81e5	98.3	-1.7	0.929	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.798627  
 RRF SD: 0.0671094, Relative SD: 8.4031  
 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	201009R5_1	100	0.50	NO	35.19	1.040	3.49e5	4.73e5	92.5	-7.5	0.738	bb
2	201009R5_2	100	0.50	NO	35.19	1.040	3.75e5	4.82e5	97.4	-2.6	0.778	bb
3	201009R5_3	100	0.52	NO	35.18	1.040	3.45e5	4.54e5	95.2	-4.8	0.760	MM
4	201009R5_4	100	0.51	NO	35.19	1.040	3.99e5	4.99e5	100	0.1	0.799	bb
5	201009R5_5	100	0.52	NO	35.19	1.040	4.77e5	5.13e5	116	16.3	0.928	bb
6	201009R5_6	100	0.51	NO	35.19	1.040	3.79e5	4.81e5	98.7	-1.3	0.788	bb

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

Response Factor: 0.72156  
 RRF SD: 0.0544927, Relative SD: 7.55206  
 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	201009R5_1	100	0.43	NO	36.77	1.087	3.24e5	4.73e5	95.0	-5.0	0.685	bb
2	201009R5_2	100	0.44	NO	36.77	1.087	3.38e5	4.82e5	97.1	-2.9	0.701	bb
3	201009R5_3	100	0.43	NO	36.76	1.087	3.15e5	4.54e5	96.2	-3.8	0.694	MM
4	201009R5_4	100	0.44	NO	36.75	1.087	3.58e5	4.99e5	99.3	-0.7	0.716	bb
5	201009R5_5	100	0.44	NO	36.77	1.087	4.27e5	5.13e5	115	15.1	0.831	bb
6	201009R5_6	100	0.43	NO	36.76	1.087	3.38e5	4.81e5	97.3	-2.7	0.702	bb

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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.565311  
 RRF SD: 0.055561, Relative SD: 9.82838  
 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	201009R5_1	100	0.43	NO	38.76	1.146	2.54e5	4.73e5	95.0	-5.0	0.537	bb
2	201009R5_2	100	0.42	NO	38.76	1.146	2.69e5	4.82e5	98.6	-1.4	0.557	bb
3	201009R5_3	100	0.42	NO	38.75	1.146	2.38e5	4.54e5	92.7	-7.3	0.524	bb
4	201009R5_4	100	0.43	NO	38.75	1.146	2.84e5	4.99e5	101	0.7	0.570	bb
5	201009R5_5	100	0.43	NO	38.78	1.146	3.46e5	5.13e5	119	19.1	0.673	bb
6	201009R5_6	100	0.43	NO	38.75	1.145	2.55e5	4.81e5	93.9	-6.1	0.531	bb

**Compound name: 13C-OCDF**

Response Factor: 0.606987  
 RRF SD: 0.0867291, Relative SD: 14.2885  
 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	201009R5_1	200	0.87	NO	41.37	1.223	5.16e5	4.73e5	180	-10.0	0.546	bb
2	201009R5_2	200	0.89	NO	41.36	1.223	5.45e5	4.82e5	186	-6.9	0.565	bb
3	201009R5_3	200	0.89	NO	41.35	1.223	5.12e5	4.54e5	186	-7.1	0.564	MM
4	201009R5_4	200	0.91	NO	41.36	1.223	6.24e5	4.99e5	206	3.0	0.625	bd
5	201009R5_5	200	0.88	NO	41.38	1.223	7.96e5	5.13e5	255	27.7	0.775	bb
6	201009R5_6	200	0.88	NO	41.37	1.223	5.45e5	4.81e5	187	-6.7	0.566	bb

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.18328  
 RRF SD: 0.131987, Relative SD: 11.1543  
 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	201009R5_1	0.250			26.39	1.031	1.56e3	5.60e5	0.236	-5.7	1.12	bb
2	201009R5_2	0.500			26.36	1.030	2.81e3	5.73e5	0.415	-17.1	0.981	bb

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 2:50:48 PM Pacific Daylight Time  
 Printed: Monday, October 12, 2020 2:57:26 PM Pacific Daylight Time

**Compound name: 37Cl-2,3,7,8-TCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201009R5_3	2.00			26.34	1.030	1.32e4	5.63e5	1.98	-0.8	1.17	bb
4	201009R5_4	40.0			26.36	1.030	2.88e5	5.68e5	42.8	7.0	1.27	bb
5	201009R5_5	200			26.36	1.030	1.52e6	5.56e5	231	15.7	1.37	bb
6	201009R5_6	10.0			26.37	1.030	6.62e4	5.54e5	10.1	0.9	1.19	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	201009R5_1	100	0.78	NO	25.59	1.000	5.60e5	5.60e5	100	0.0	1.00	bb
2	201009R5_2	100	0.79	NO	25.59	1.000	5.73e5	5.73e5	100	0.0	1.00	bb
3	201009R5_3	100	0.79	NO	25.58	1.000	5.63e5	5.63e5	100	0.0	1.00	bb
4	201009R5_4	100	0.80	NO	25.59	1.000	5.68e5	5.68e5	100	0.0	1.00	bb
5	201009R5_5	100	0.79	NO	25.59	1.000	5.56e5	5.56e5	100	0.0	1.00	bb
6	201009R5_6	100	0.79	NO	25.59	1.000	5.54e5	5.54e5	100	0.0	1.00	bb

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 9.93014e-017, Relative SD: 9.93014e-015

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	201009R5_1	100	0.79	NO	24.14	1.000	9.30e5	9.30e5	100	0.0	1.00	bb
2	201009R5_2	100	0.80	NO	24.13	1.000	9.43e5	9.43e5	100	0.0	1.00	bb
3	201009R5_3	100	0.79	NO	24.11	1.000	9.26e5	9.26e5	100	0.0	1.00	bb
4	201009R5_4	100	0.80	NO	24.13	1.000	9.32e5	9.32e5	100	0.0	1.00	bb
5	201009R5_5	100	0.80	NO	24.13	1.000	9.20e5	9.20e5	100	0.0	1.00	bb
6	201009R5_6	100	0.80	NO	24.13	1.000	8.90e5	8.90e5	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 2:50:48 PM Pacific Daylight Time  
Printed: Monday, October 12, 2020 2:57:26 PM 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	201009R5_1	100	0.51	NO	33.84	1.000	4.73e5	4.73e5	100	0.0	1.00	bb
2	201009R5_2	100	0.51	NO	33.83	1.000	4.82e5	4.82e5	100	0.0	1.00	bb
3	201009R5_3	100	0.51	NO	33.82	1.000	4.54e5	4.54e5	100	0.0	1.00	bb
4	201009R5_4	100	0.50	NO	33.83	1.000	4.99e5	4.99e5	100	0.0	1.00	bb
5	201009R5_5	100	0.51	NO	33.83	1.000	5.13e5	5.13e5	100	0.0	1.00	bb
6	201009R5_6	100	0.51	NO	33.84	1.000	4.81e5	4.81e5	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Monday, October 12, 2020 15:04:46 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:05:05 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

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

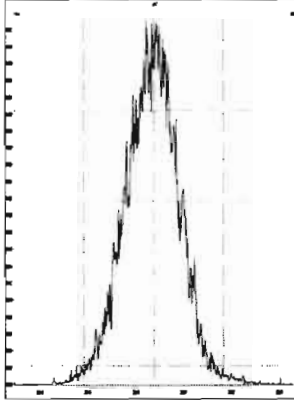
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2	201009R5_2	ST201009R5_2 1613 CS1 20F1103	09-Oct-20	17:06:24
3	201009R5_3	ST201009R5_3 1613 CS2 20F1104	09-Oct-20	17:49:56
4	201009R5_4	ST201009R5_4 1613 CS4 20F1106	09-Oct-20	18:33:40
5	201009R5_5	ST201009R5_5 1613 CS5 20F1107	09-Oct-20	19:17:24
6	201009R5_6	ST201009R5_6 1613 CS3 20F1105	09-Oct-20	20:01:08
7	201009R5_7	SS201009R5_1 1613 SSS 20F1108	09-Oct-20	20:44:53
8	201009R5_8	SOLVENT BLANK	09-Oct-20	21:28:38
9	201009R5_9	TCDF CPSM	09-Oct-20	22:12:23
10	201009R5_10	B0J0073-BS1 OPR 10	09-Oct-20	22:56:11
11	201009R5_11	B0J0072-BS1 OPR 0.4	09-Oct-20	23:39:51
12	201009R5_12	SOLVENT BLANK	10-Oct-20	00:23:36
13	201009R5_13	B0J0073-BLK1 Method Blank 10	10-Oct-20	01:07:20
14	201009R5_14	B0J0072-BLK1 Method Blank 0.4	10-Oct-20	01:51:06
15	201009R5_15	2001995-03RE2 PDI-068SC-A-08-09-200430 ...	10-Oct-20	02:34:51
16	201009R5_16	2002024-06 LS-121-20200923 0.40157	10-Oct-20	03:18:37
17	201009R5_17	2002024-05 PW-4-20200923 0.40154	10-Oct-20	04:02:22
18	201009R5_18	2002024-04 PW-3-20200923 0.40123	10-Oct-20	04:46:06
19	201009R5_19	2002024-03 PW-2-20200923 0.40056	10-Oct-20	05:29:50
20	201009R5_20	2002024-02 PW-1-20200923-FD 0.40012	10-Oct-20	06:13:35
21	201009R5_21	2002024-01 PW-1-20200923 0.401	10-Oct-20	06:57:19
22	201009R6_1	SOLVENT BLANK	10-Oct-20	07:50:01



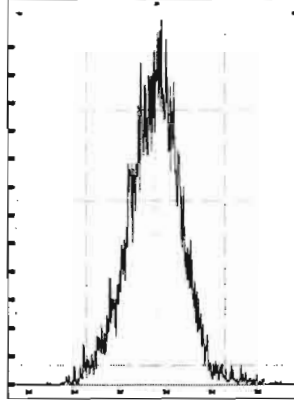
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, October 09, 2020 16:15:09 Pacific Daylight Time

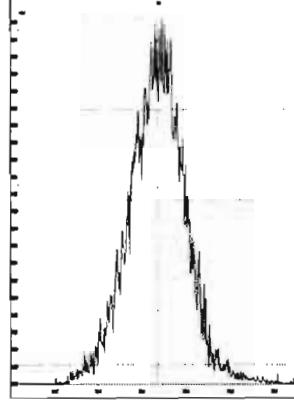
M 292.9824 R 11961



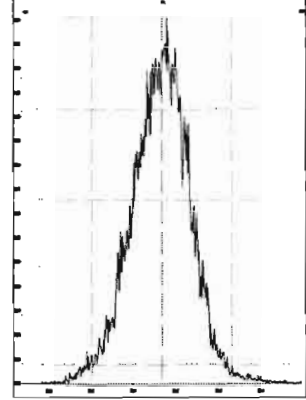
M 304.9824 R 12440



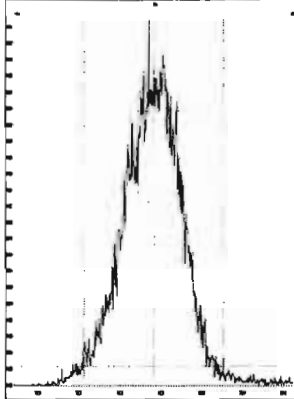
M 318.9792 R 11681



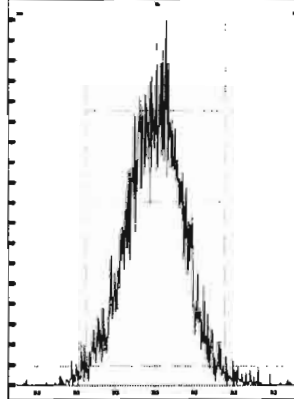
M 330.9792 R 10332



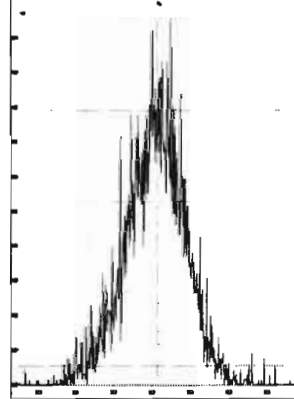
M 342.9792 R 10637



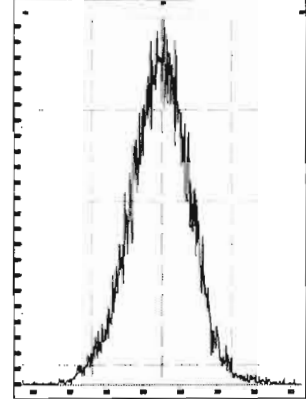
M 354.9792 R 11157



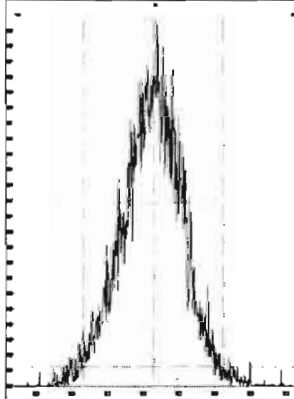
M 366.9792 R 11791



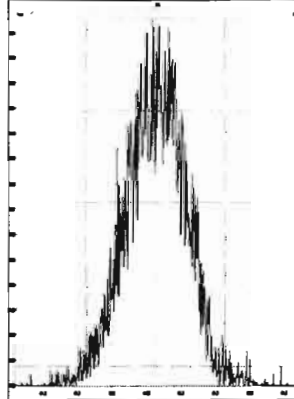
M 380.9760 R 10461



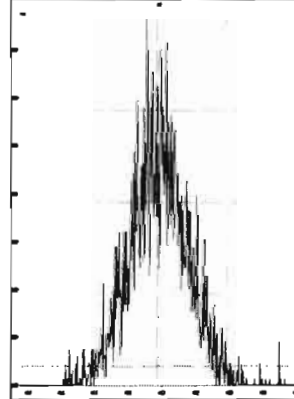
M 392.9760 R 10547



M 404.9760 R 11062



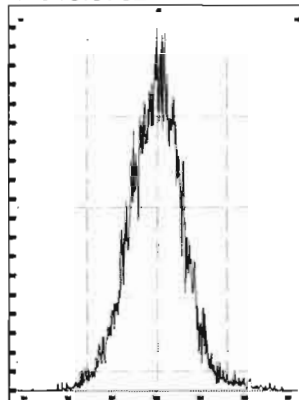
M 416.9760 R 12823



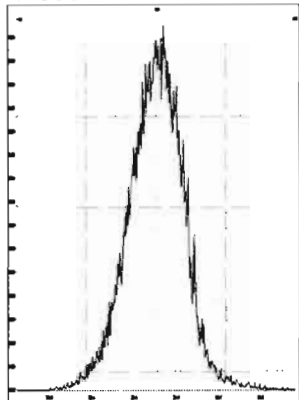
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, October 09, 2020 16:16:17 Pacific Daylight Time

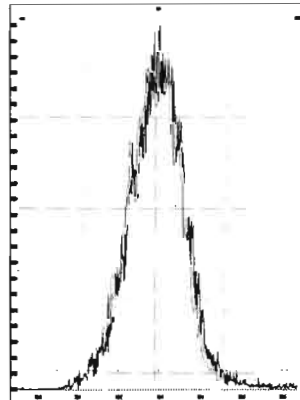
M 318.9792 R 11849



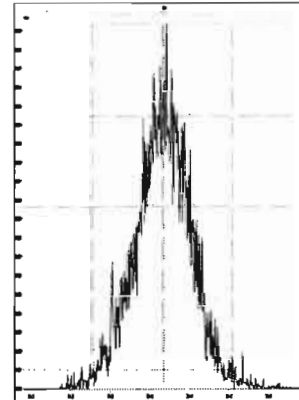
M 330.9792 R 10915



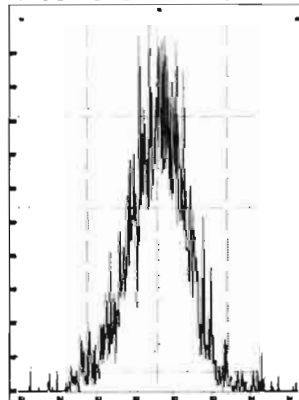
M 342.9792 R 11364



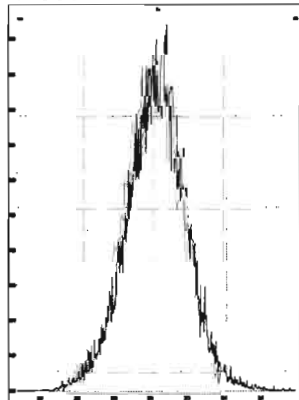
M 354.9792 R 12252



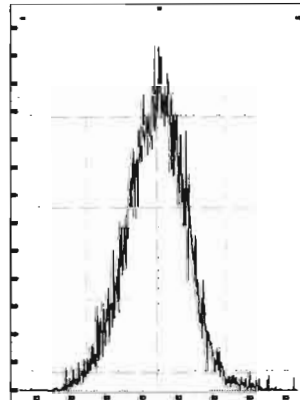
M 366.9792 R 12077



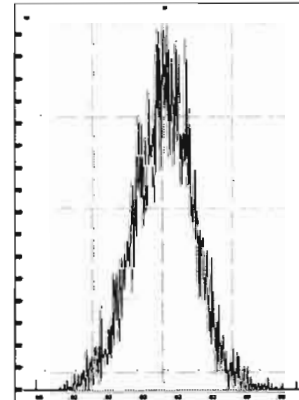
M 380.9760 R 10458



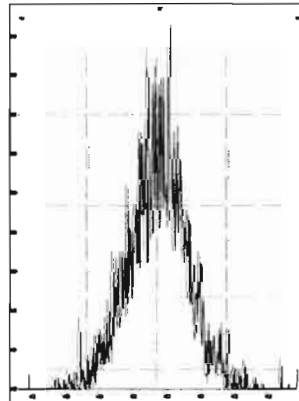
M 392.9760 R 10204



M 404.9760 R 11059



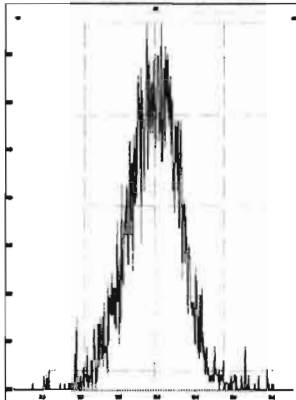
M 416.9760 R 10822



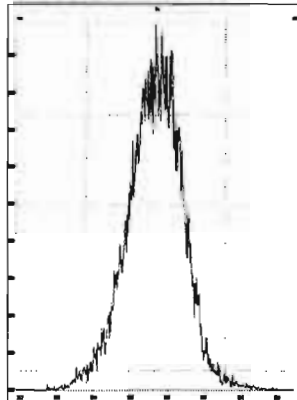
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, October 09, 2020 16:17:25 Pacific Daylight Time

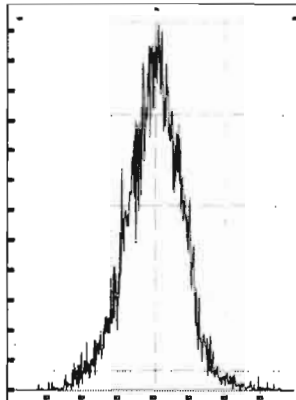
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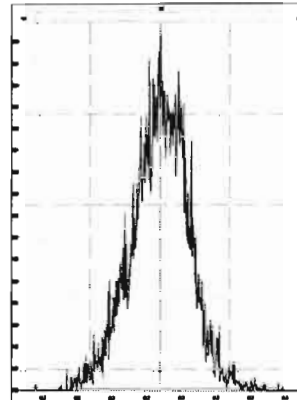
M 380.9760 R 11060



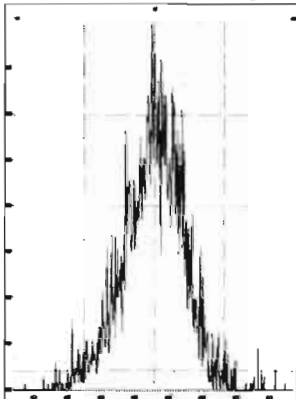
M 392.9760 R 12500



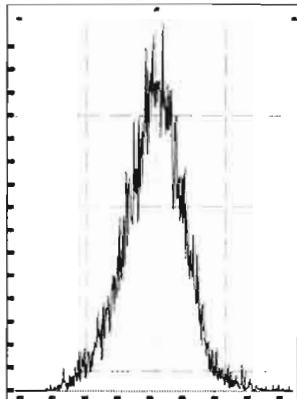
M 404.9760 R 12498



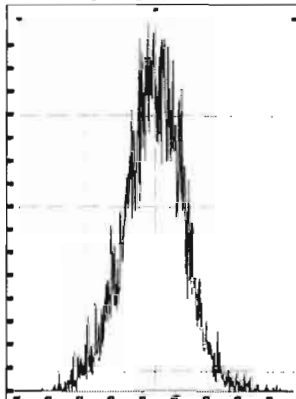
M 416.9760 R 11415



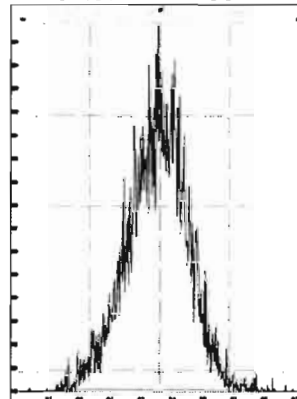
M 430.9728 R 10915



M 442.9728 R 11062



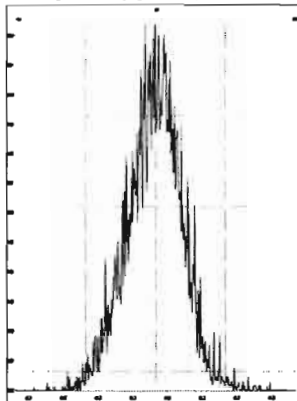
M 454.9728 R 10041



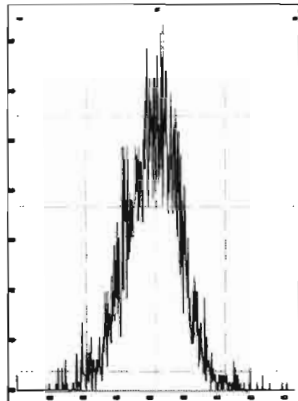
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Printed: Friday, October 09, 2020 16:18:20 Pacific Daylight Time

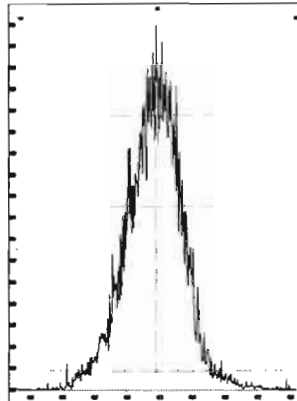
M 404.9760 R 11467



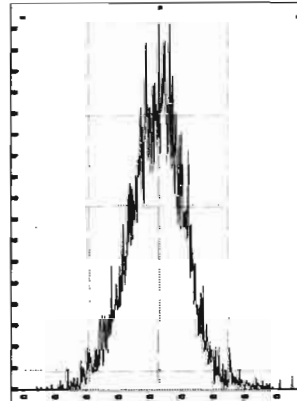
M 416.9760 R 13437



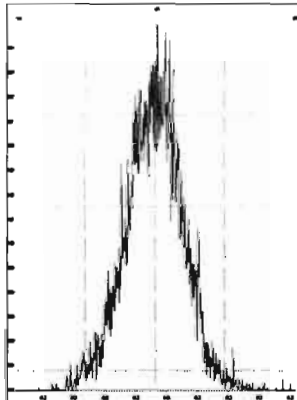
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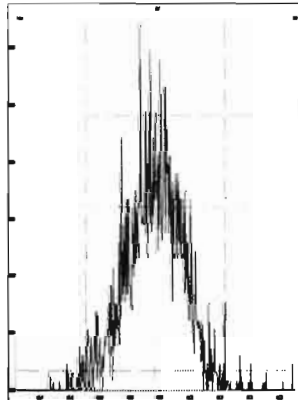
M 442.9728 R 11014



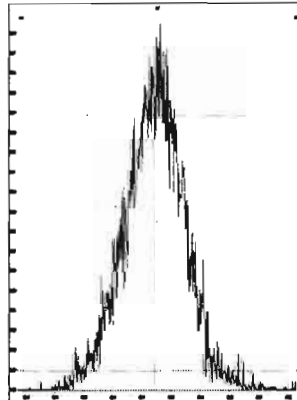
M 454.9728 R 12318



M 466.9728 R 15433



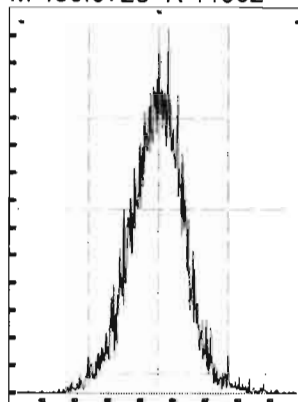
M 480.9696 R 11685



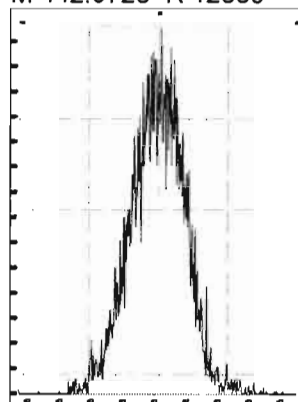
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Printed: Friday, October 09, 2020 16:19:22 Pacific Daylight Time

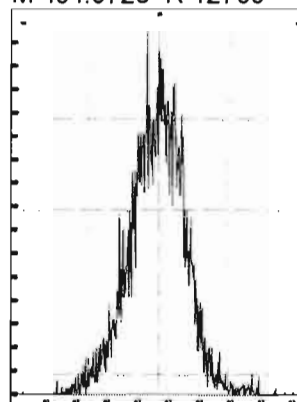
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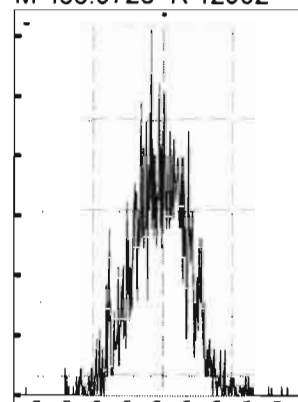
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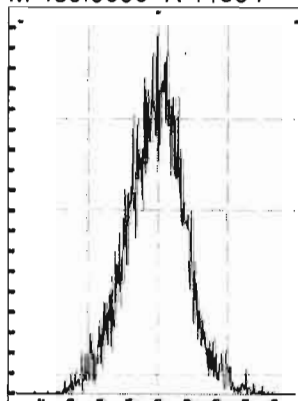
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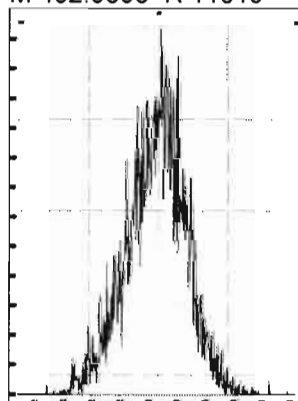
M 466.9728 R 12952



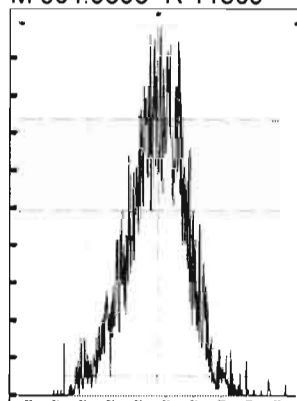
M 480.9696 R 11364



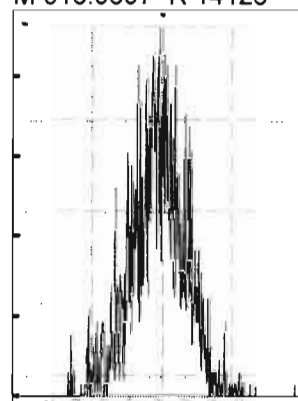
M 492.9696 R 11015



M 504.9696 R 11309



M 516.9697 R 14126



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CPSM.qld

Last Altered: Monday, October 12, 2020 15:07:44 Pacific Daylight Time

Printed: Monday, October 12, 2020 15:08:22 Pacific Daylight Time

Method: Untitled 20 Sep 2020 10:23:28

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

Name: 201009R5\_6, Date: 09-Oct-2020, Time: 20:01:08, ID: ST201009R5\_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.64
2	2 1,2,8,9-TCDD (Last)	27.24
3	3 1,2,4,7,9-PeCDD (First)	28.76
4	4 1,2,3,8,9-PeCDD (Last)	31.35
5	5 1,2,4,6,7,9-HxCDD (First)	32.67
6	6 1,2,3,7,8,9-HxCDD (Last)	34.70
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.15
9	9 1,3,6,8-TCDF (First)	20.41
10	10 1,2,8,9-TCDF (Last)	27.55
11	11 1,3,4,6,8-PeCDF (First)	27.12
12	12 1,2,3,8,9-PeCDF (Last)	31.72
13	13 1,2,3,4,6,8-HxCDF (First)	32.13
14	14 1,2,3,7,8,9-HxCDF (Last)	35.20
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.78
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.76

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CPSM.qld  
Last Altered: Monday, October 12, 2020 15:07:44 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:08:22 Pacific Daylight Time

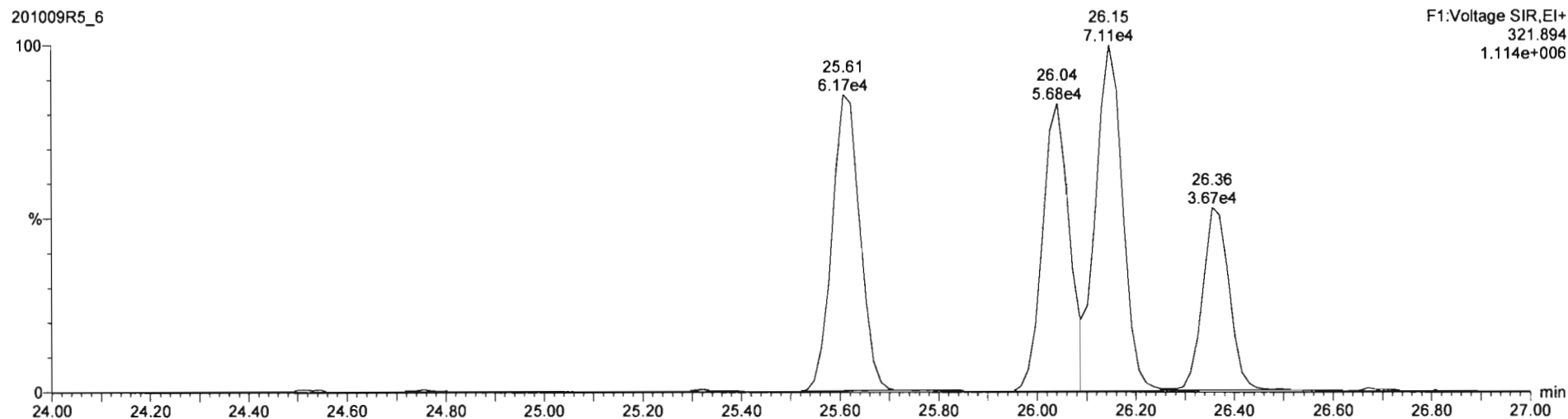
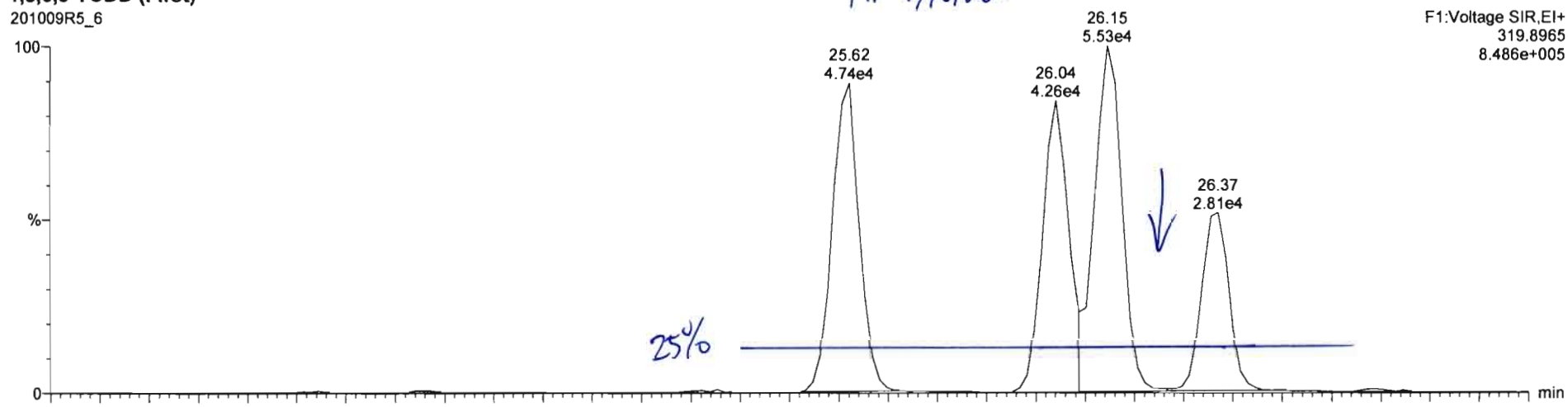
*GRB 10/13/2020*

Method: Untitled 20 Sep 2020 10:23:28  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

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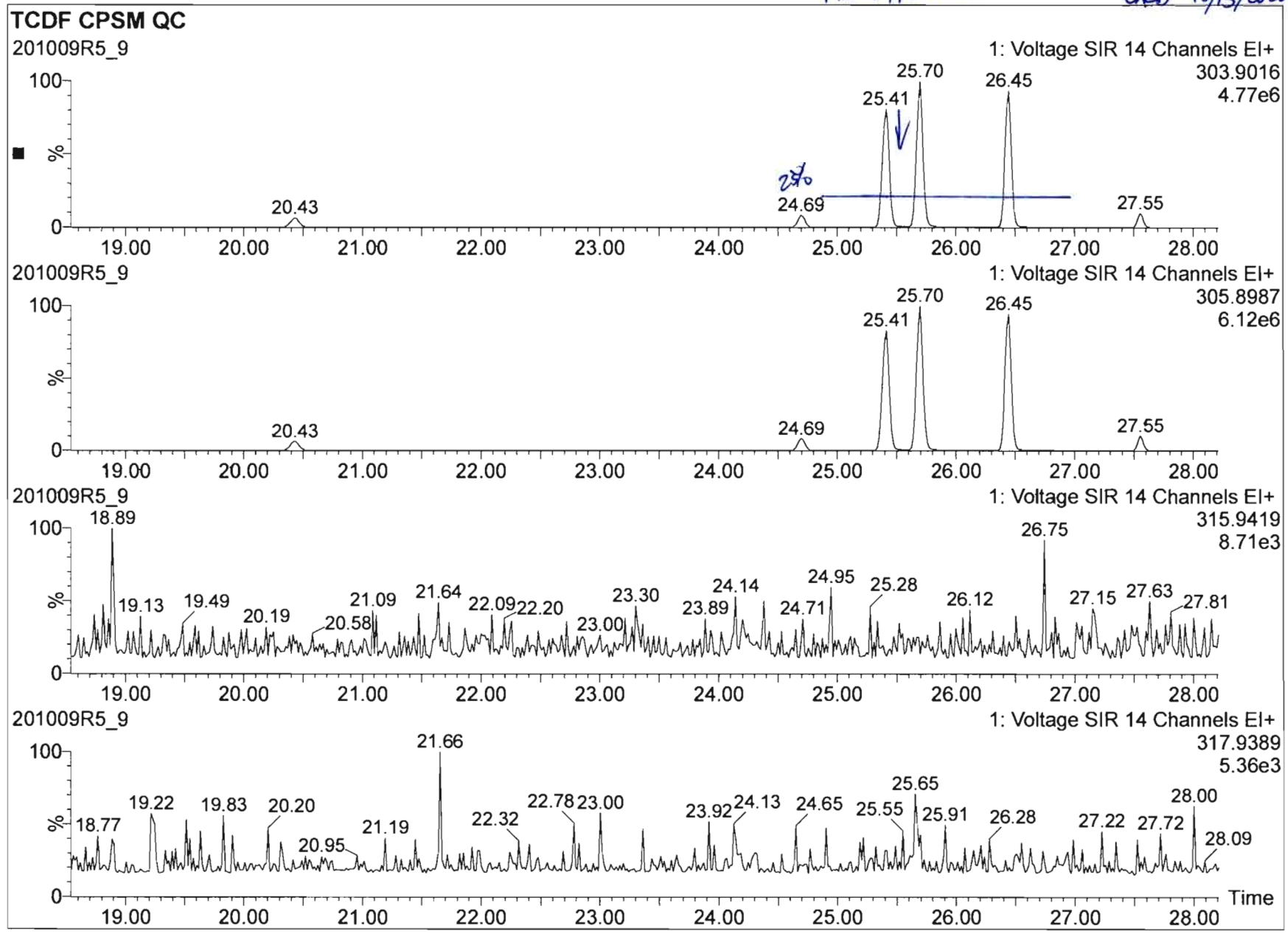
1,3,6,8-TCDD (First)  
201009R5\_6

*HN 10/12/2020*



HW 10/12/2020

GRB 10/13/2020





Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time

Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

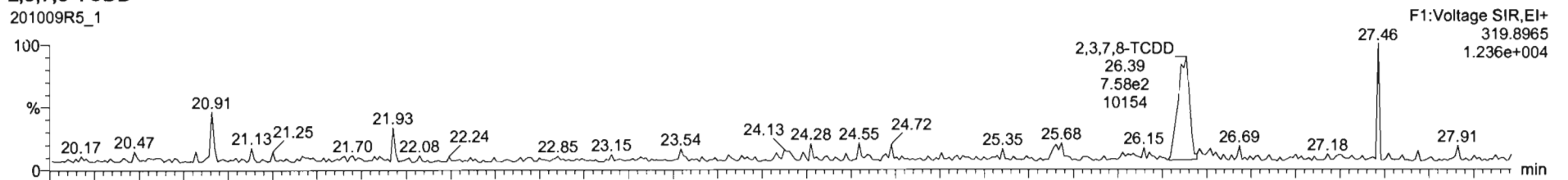
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Calibration: 12 Oct 2020 11:36:18

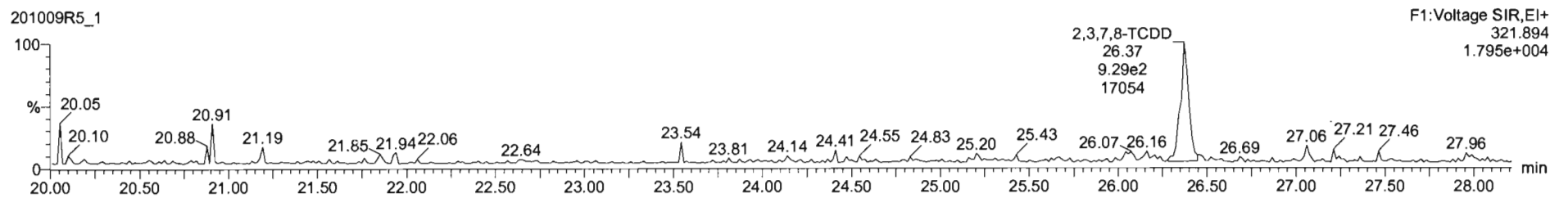
Name: 201009R5\_1, Date: 09-Oct-2020, Time: 16:21:58, ID: ST201009R5\_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

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

201009R5\_1

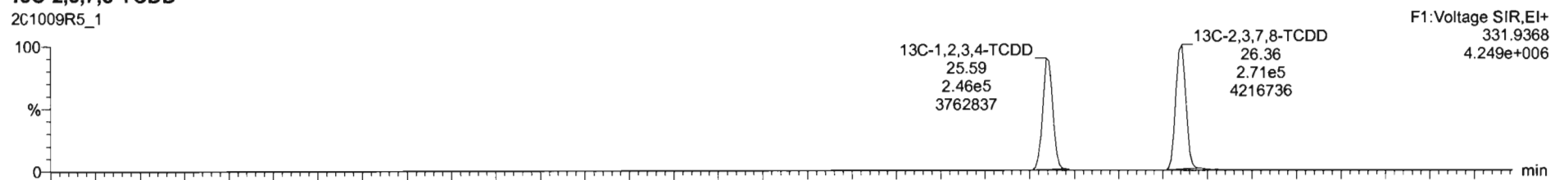


201009R5\_1

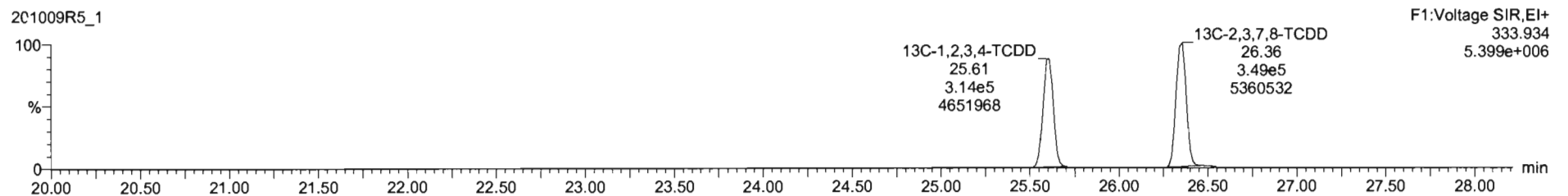


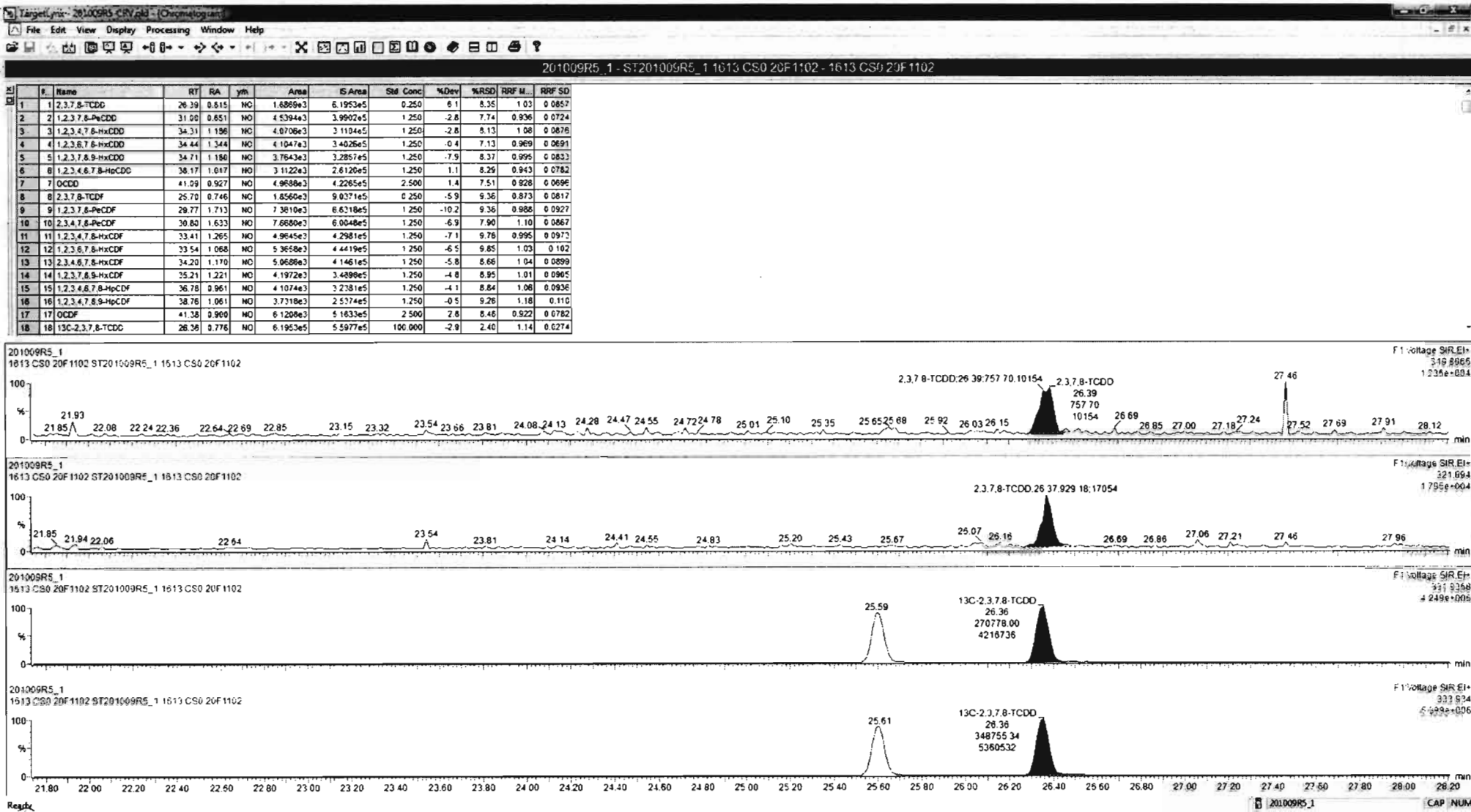
**13C-2,3,7,8-TCDD**

201009R5\_1



201009R5\_1





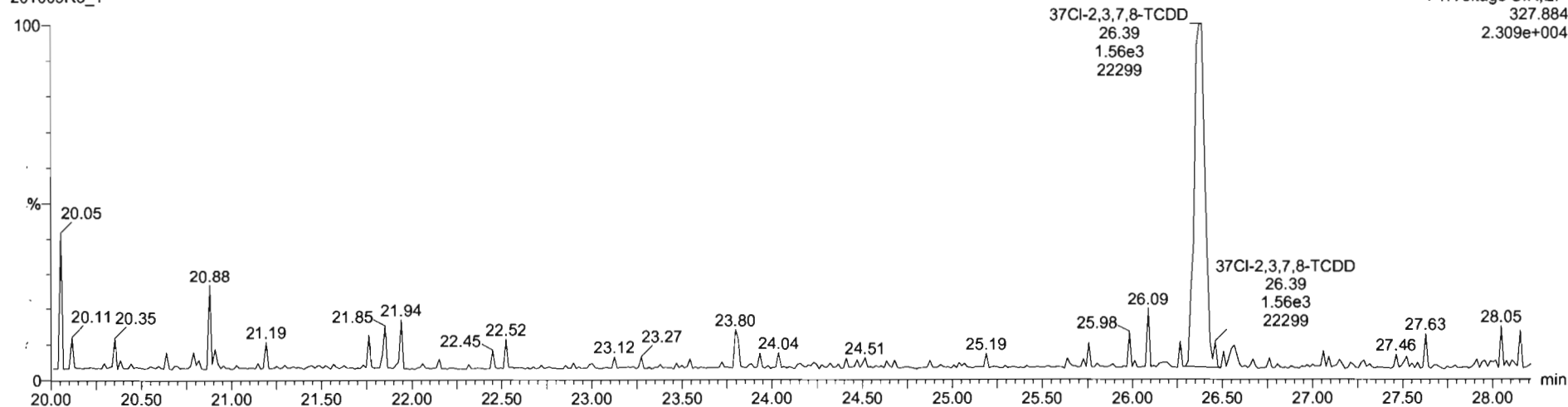
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_1, Date: 09-Oct-2020, Time: 16:21:58, ID: ST201009R5\_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

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

201009R5\_1

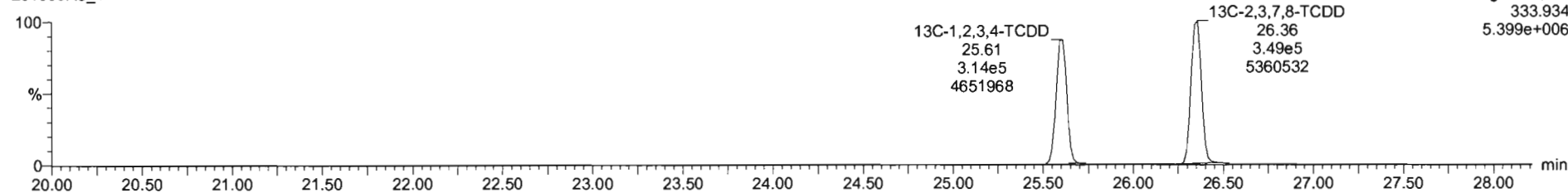


**<sup>13</sup>C-1,2,3,4-TCDD**

201009R5\_1



201009R5\_1



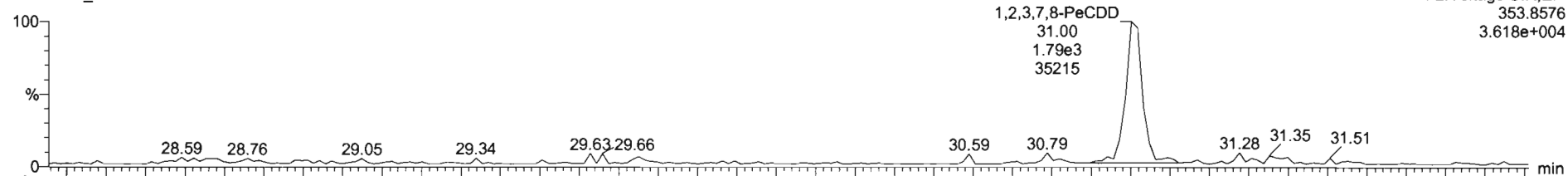
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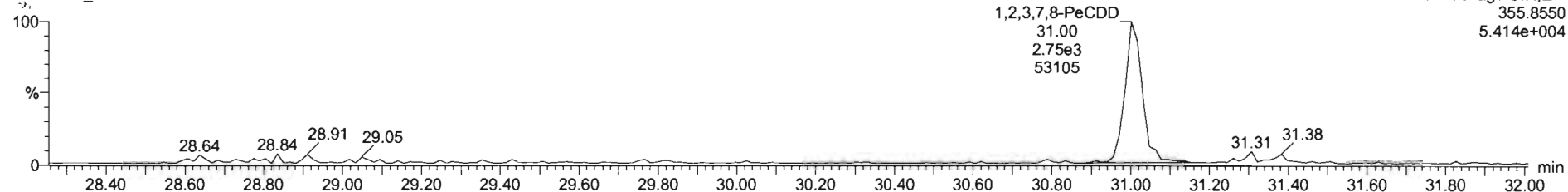
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**1,2,3,7,8-PeCDD**

201009R5\_1

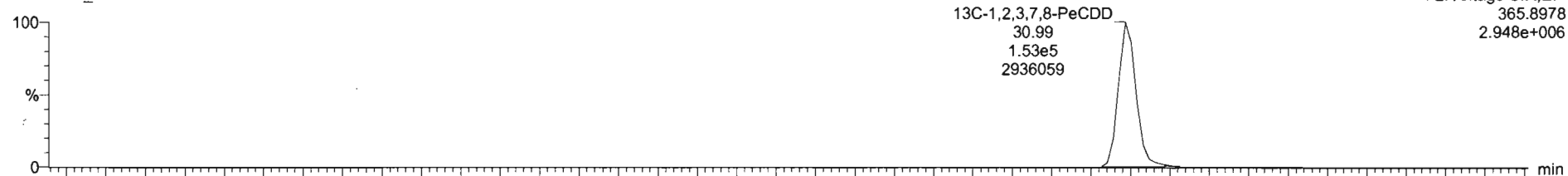


201009R5\_1

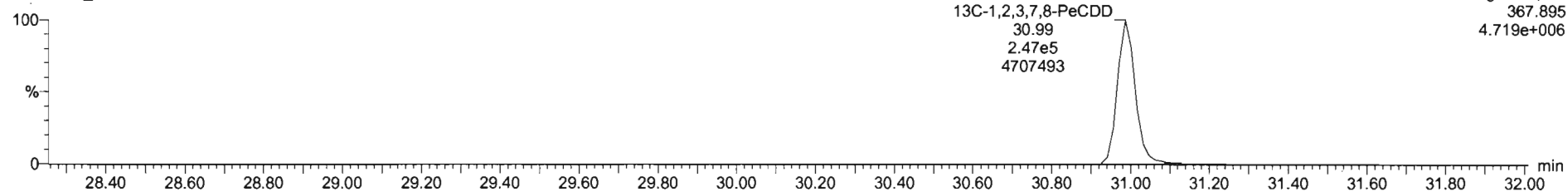


**13C-1,2,3,7,8-PeCDD**

201009R5\_1

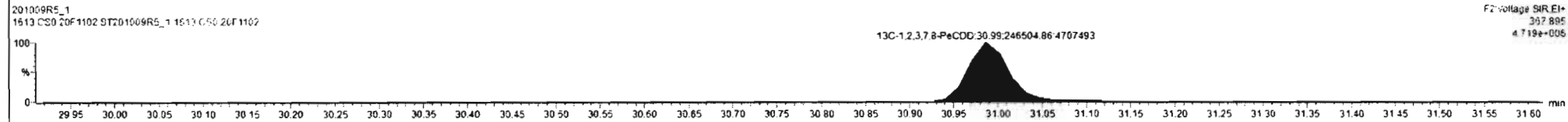
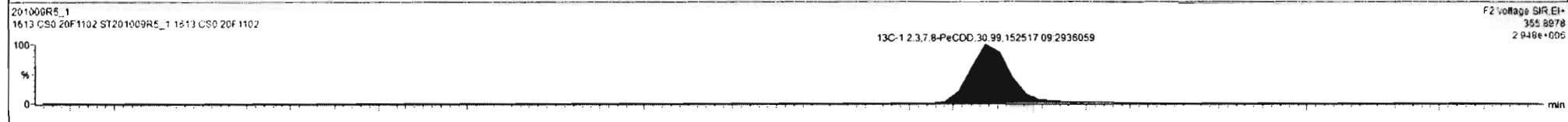
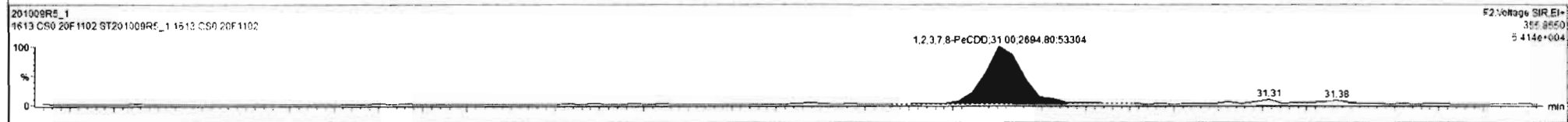
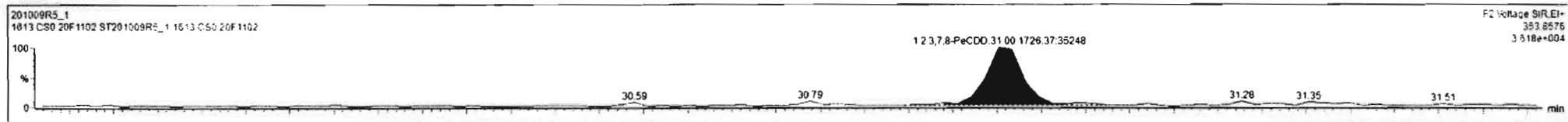


201009R5\_1



201009R5\_1 - ST201009R5\_1 1613 CS0 20F1102 - 1613 CS0 20F1102

#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.39	0.615	NO	1.6809e3	6.1953e5	0.250	6.1	8.35	1.03	0.0857
2	1,2,3,7,8-PeCDD	31.00	0.641	NO	4.4212e3	3.9902e5	1.250	-4.9	6.02	0.932	0.0748
3	1,2,3,4,7,8-HxCDD	34.31	1.196	NO	4.0708e3	3.1104e5	1.250	-2.8	8.13	1.08	0.0878
4	1,2,3,6,7,8-HxCDD	34.44	1.344	NO	4.1047e3	3.4026e5	1.250	-0.4	7.13	0.989	0.0691
5	1,2,3,7,8,9-HxCDD	34.71	1.186	NO	3.7843e3	3.2857e5	1.250	-7.9	8.37	0.995	0.0833
6	1,2,3,4,6,7,8-HpCDD	38.17	1.017	NO	3.1121e3	2.6120e5	1.250	1.1	8.29	0.943	0.0782
7	OCDD	41.08	0.927	NO	4.9688e3	4.2265e5	2.500	1.4	7.51	0.928	0.0696
8	1,2,3,7,8-TCDF	25.70	0.746	NO	1.8560e3	9.0371e5	0.250	-5.9	9.36	0.873	0.0817
9	1,2,3,7,8-PeCDF	29.77	1.713	NO	7.3610e3	6.6318e5	1.250	-10.2	9.38	0.988	0.0927
10	2,3,4,7,8-PeCDF	30.80	1.633	NO	7.6680e3	6.0048e5	1.250	-6.9	7.90	1.10	0.0867
11	1,2,3,4,7,8-HxCDF	33.41	1.265	NO	4.9645e3	4.2981e5	1.250	-7.1	9.78	0.995	0.0973
12	1,2,3,6,7,8-HxCDF	33.54	1.068	NO	5.3586e3	4.4419e5	1.250	-6.5	9.85	1.03	0.102
13	2,3,4,6,7,8-HxCDF	34.20	1.170	NO	5.0686e3	4.1461e5	1.250	-5.8	8.66	1.04	0.0899
14	1,2,3,7,8,9-HxCDF	35.21	1.221	NO	4.1972e3	3.4896e5	1.250	-4.8	8.95	1.01	0.0905
15	1,2,3,4,6,7,8-HpCDF	36.78	0.961	NO	4.1074e3	3.2381e5	1.250	-4.1	8.84	1.06	0.0936
16	1,2,3,4,7,8,9-HpCDF	38.76	1.061	NO	3.7318e3	2.5374e5	1.250	-0.5	9.26	1.18	0.110
17	OCDF	41.38	0.900	NO	6.1208e3	5.1633e5	2.500	2.8	6.46	0.922	0.0782
18	13C-2,3,7,8-TCDD	26.38	0.776	NO	6.1953e5	5.5977e5	100.000	-2.9	2.40	1.14	0.0274



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

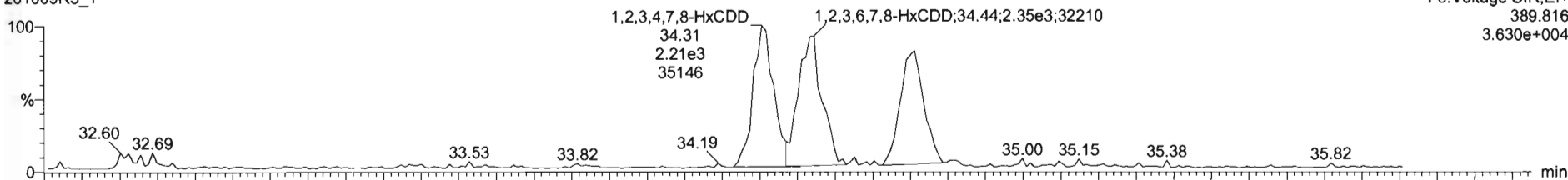
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

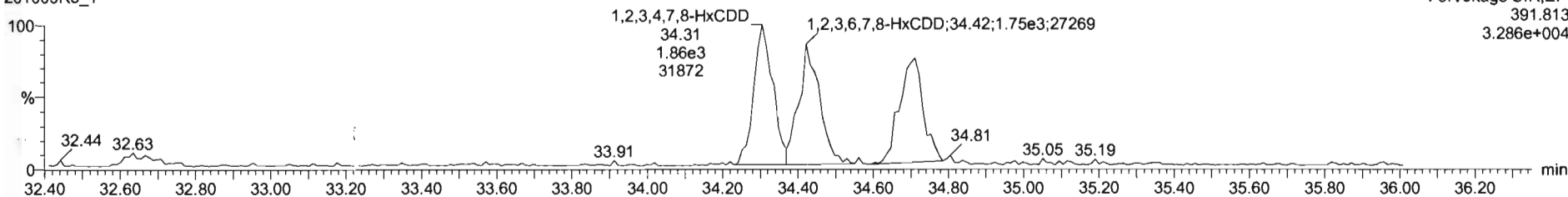
Name: 201009R5\_1, Date: 09-Oct-2020, Time: 16:21:58, ID: ST201009R5\_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

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

201009R5\_1

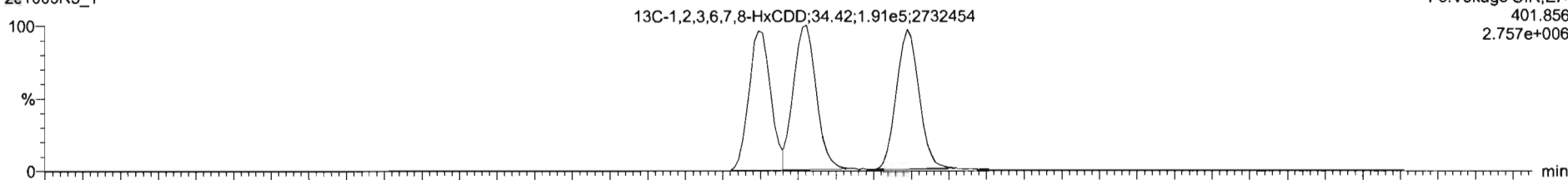


201009R5\_1

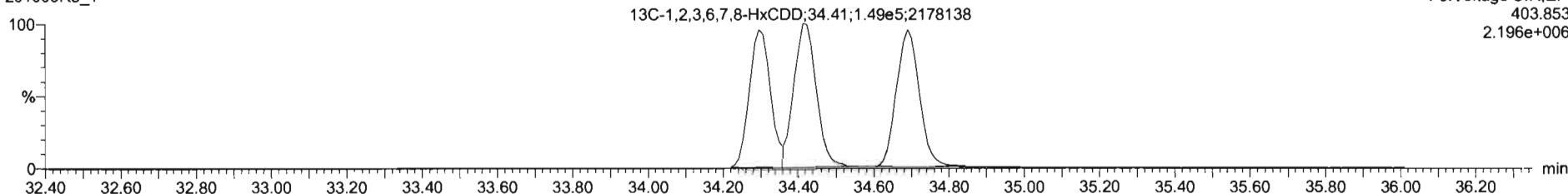


13C-1,2,3,4,7,8-HxCDD

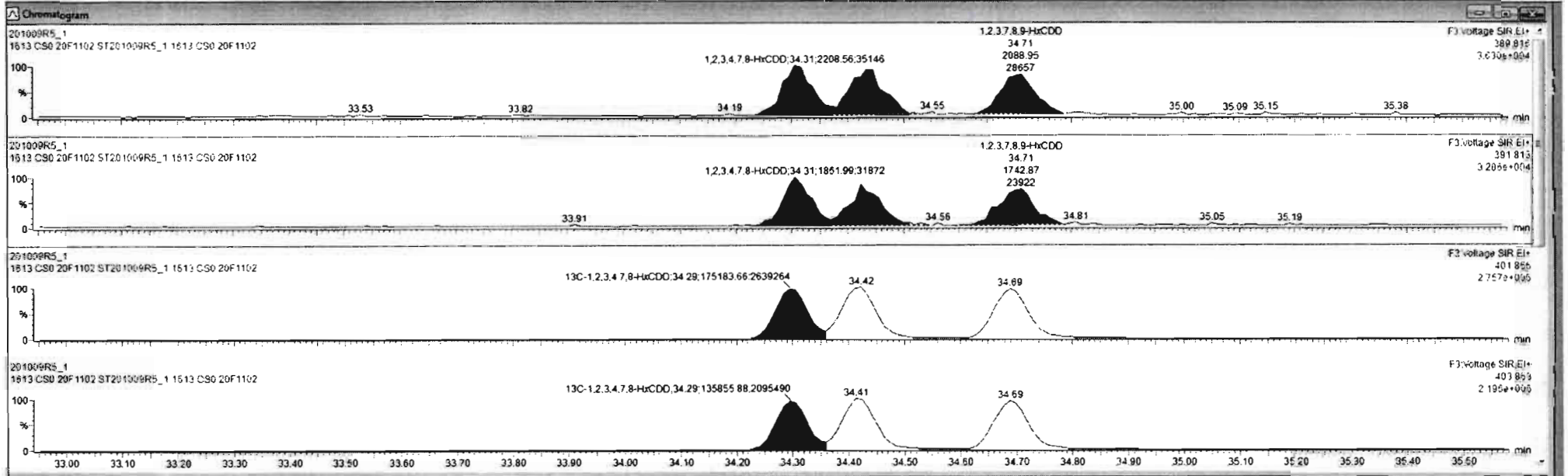
201009R5\_1



201009R5\_1



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
41	41 Total Hexa-Chlorids				0.0000e0	1.250			7.15	0.968	0.0892
42	42 Total Hepta-Dioxins				2.6120e5	1.250			8.29	0.943	0.0782
43	43 Total Tetra-Furans				9.0371e5	0.250			9.60	0.971	0.0836
44	44 1st Func. Penta-Furans				0.0000e0	1.250			9.52	0.987	0.0940
45	45 Total Penta-Furans				0.0000e0	1.250			9.52	0.987	0.0940
46	46 Total Hexa-Furans				0.0000e0	1.250			8.56	1.04	0.0890
47	47 Total Hepta-Furans				0.0000e0	1.250			9.04	1.06	0.0954
48	48 PFK1					1.000					
49	49 PFK2					1.000					
50	50 PFK3					1.000					
51	51 PFK4					1.000					
52	52 PFK5					1.000					
53	53 DPE1					1.000					
54	54 DPE2					1.000					
55	55 DPE3					1.000					
56	56 DPE4					1.000					
57	57 DPE5					1.000					
58	58 DPE6					1.000					



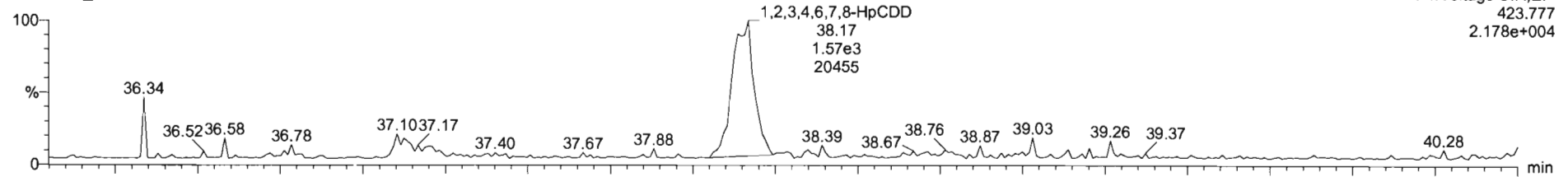
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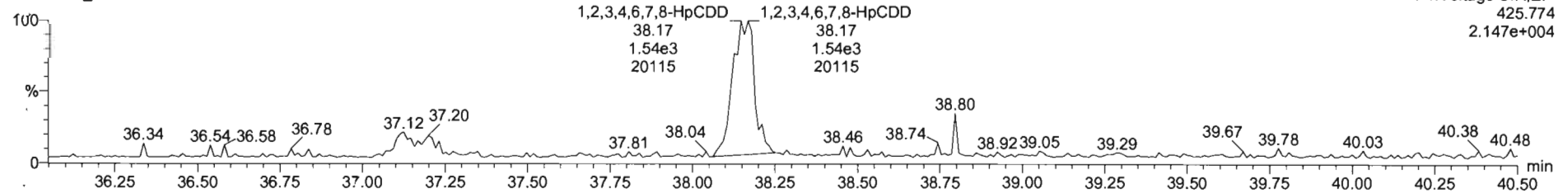
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1,2,3,4,6,7,8-HpCDD

201009R5\_1

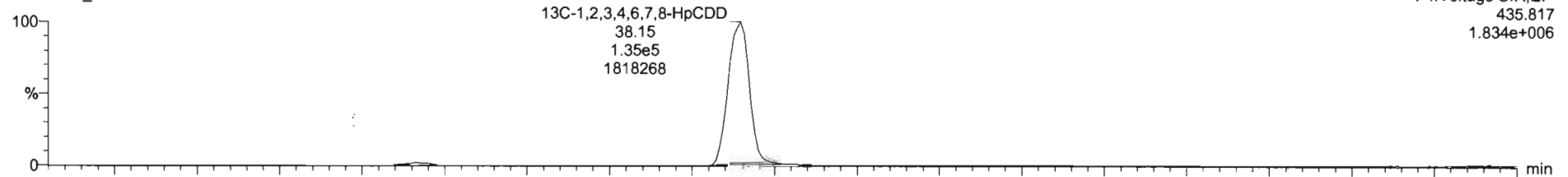


201009R5\_1

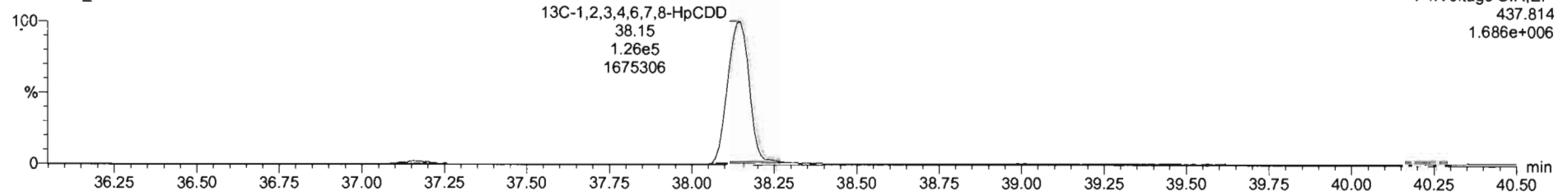


13C-1,2,3,4,6,7,8-HpCDD

201009R5\_1



201009R5\_1

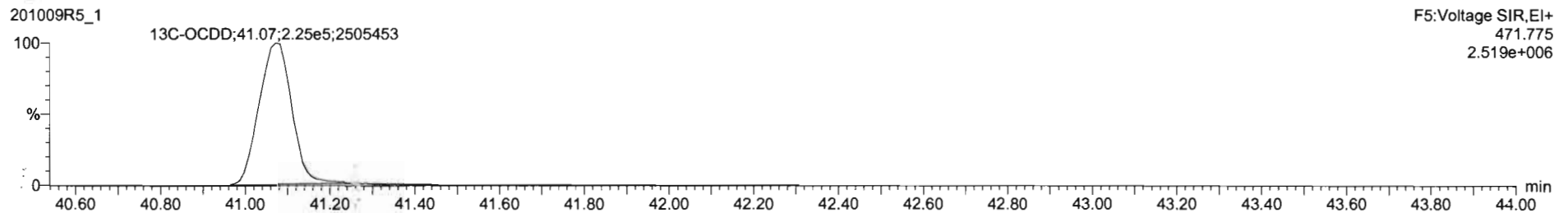
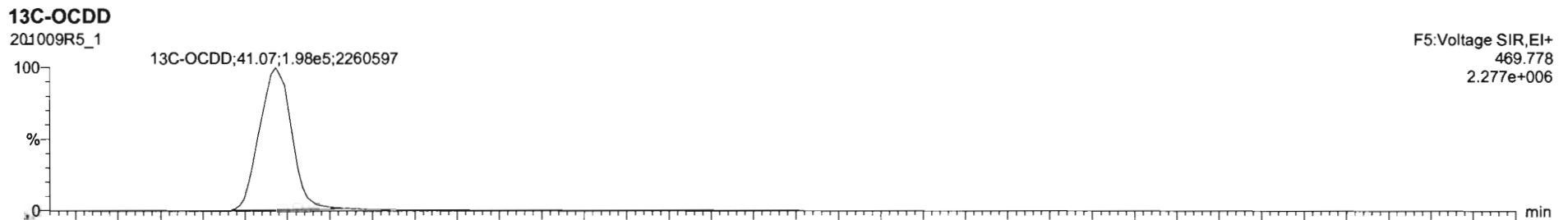
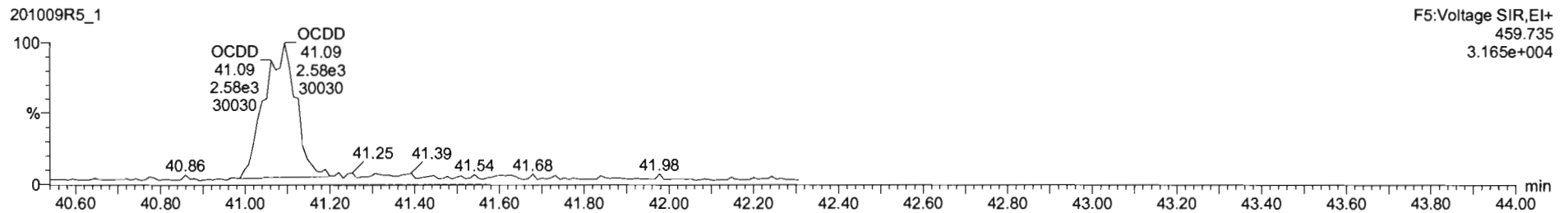
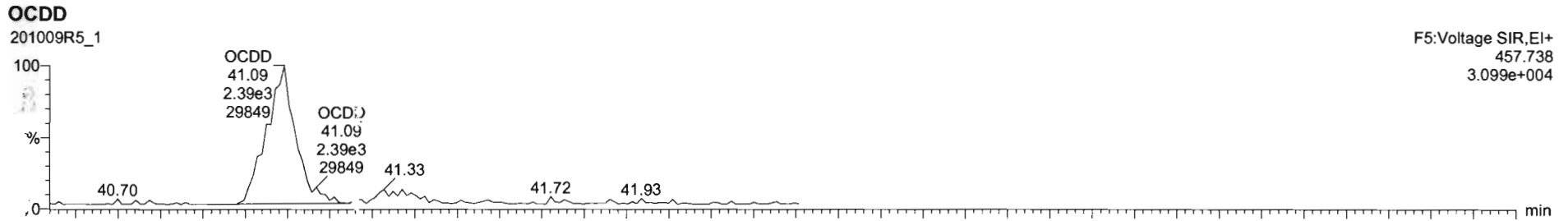


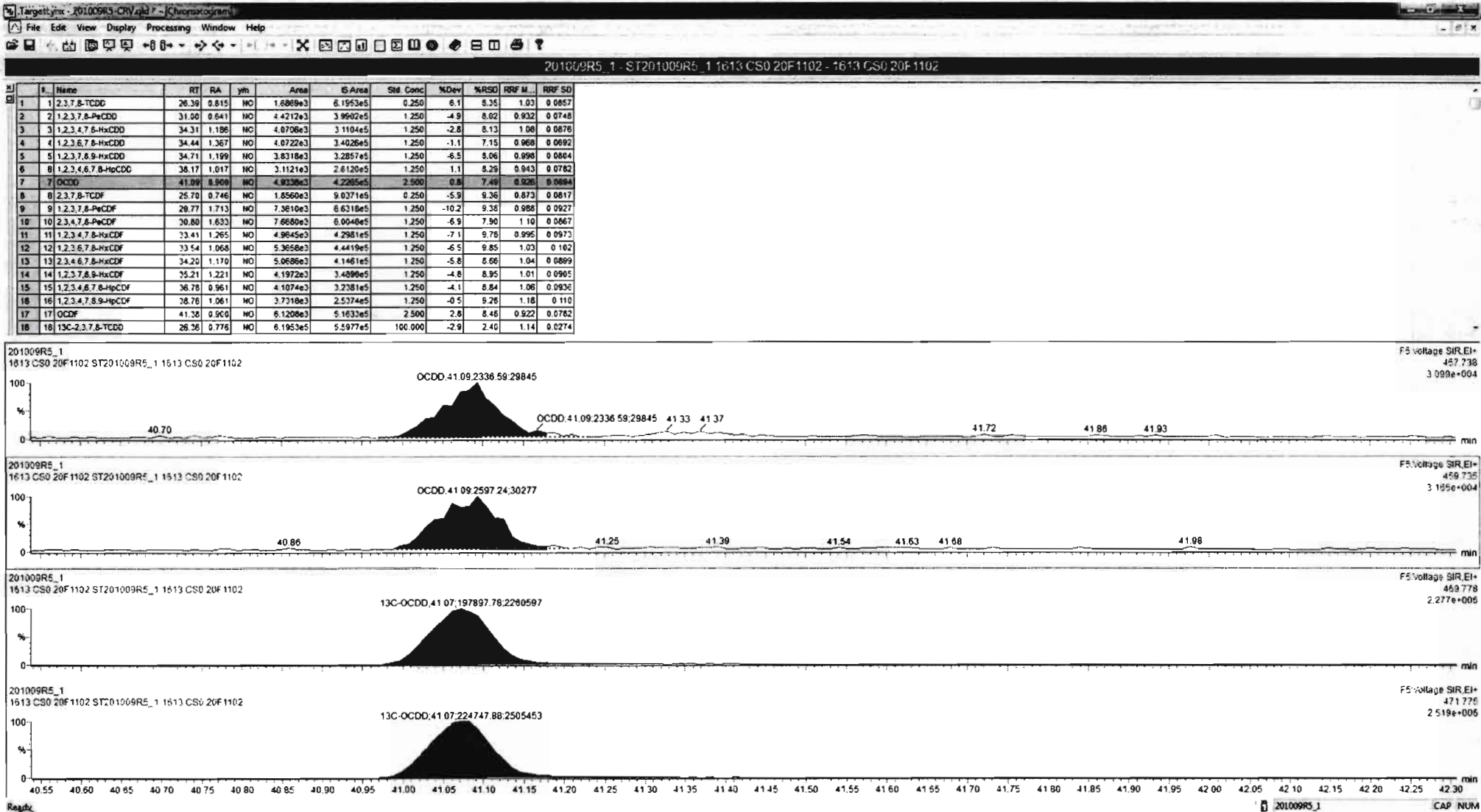


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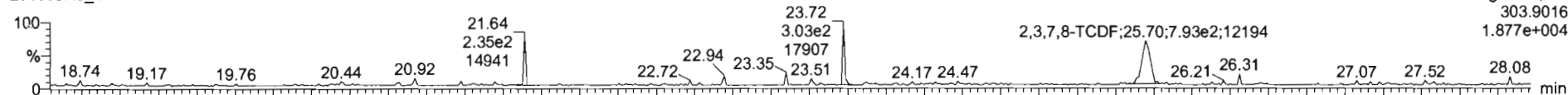
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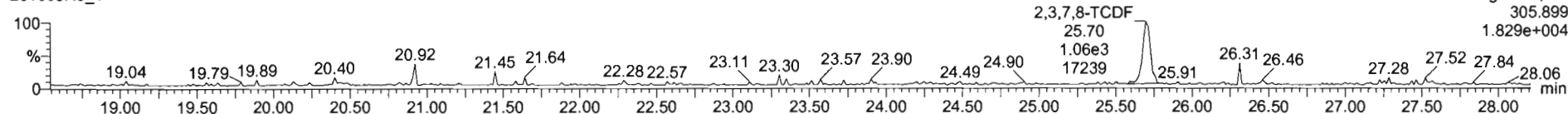
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**2,3,7,8-TCDF**

201009R5\_1

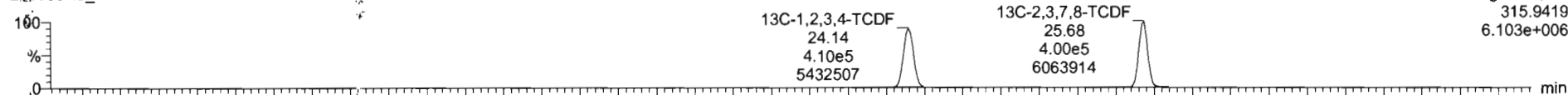


201009R5\_1

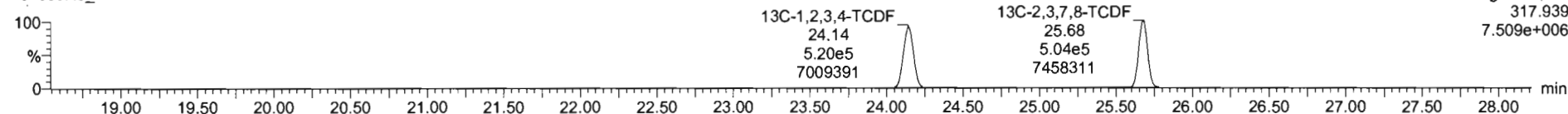


**13C-2,3,7,8-TCDF**

201009R5\_1

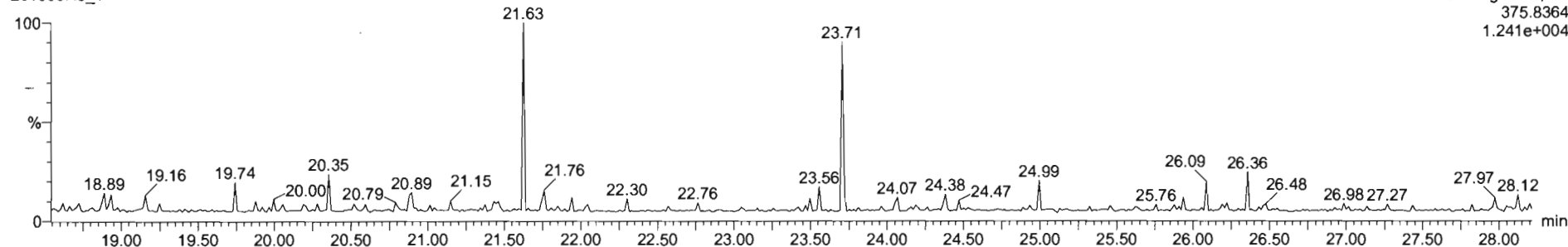


201009R5\_1



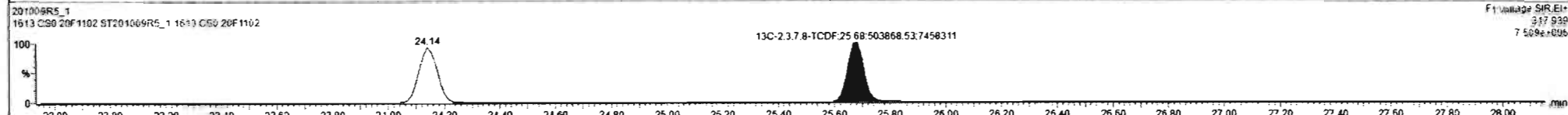
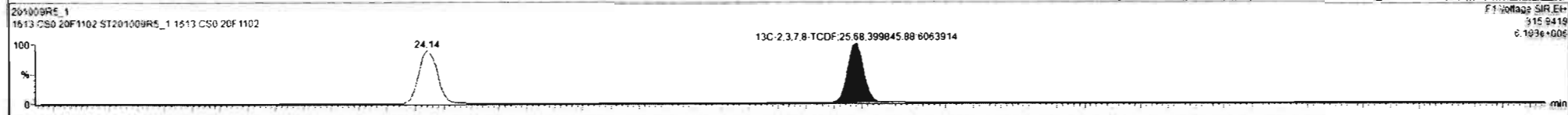
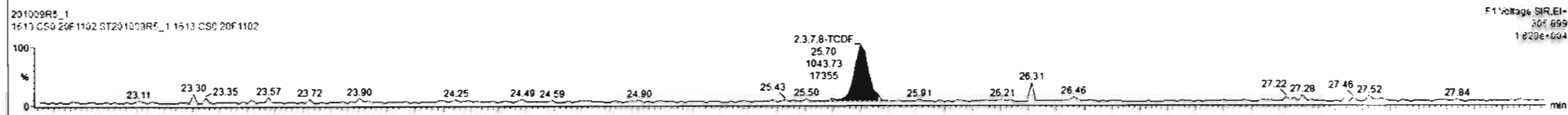
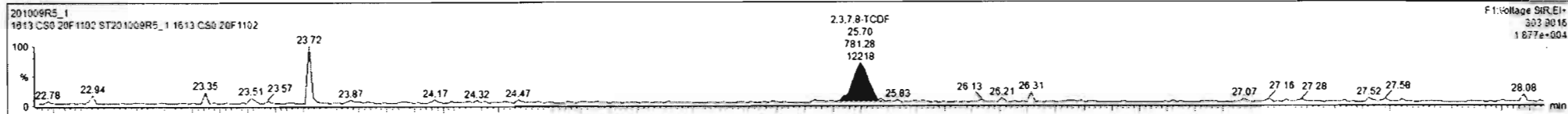
**DPE1**

201009R5\_1



201009R5\_1 - ST201009R5\_1 1613 CS0 20F1102 - 1613 CS0 20F1102

#	Name	RT	RA	ym	Area	ISArea	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.39	0.615	NO	1.6889e3	5.1953e5	0.250	6.1	8.35	1.03	0.0857
2	1,2,3,7,8-PeCDD	31.80	0.641	NO	4.4212e3	3.9992e5	1.250	-4.9	8.02	0.932	0.0748
3	1,2,3,4,7,8-HxCDD	34.31	1.196	NO	4.0798e3	3.1104e5	1.250	-2.8	5.13	1.08	0.0876
4	1,2,3,6,7,8-HxCDD	34.44	1.367	NO	4.0722e3	3.4026e5	1.250	-1.1	7.15	0.968	0.0692
5	1,2,3,7,8,9-HxCDD	34.71	1.199	NO	3.8318e3	3.2857e5	1.250	-6.5	8.66	0.990	0.0804
6	1,2,3,4,6,7,8-HpCDD	38.17	1.017	NO	3.1121e3	2.6120e5	1.250	1.1	5.29	0.943	0.0782
7	OCDD	41.09	0.900	NO	4.9338e3	4.2265e5	2.500	0.8	7.49	0.926	0.0694
8	2,3,7,8-TCDF	25.70	0.749	NO	1.8250e3	8.0371e5	0.250	-7.2	9.60	0.871	0.0836
9	1,2,3,7,8-PeCDF	29.77	1.713	NO	7.3610e3	6.6318e5	1.250	-10.2	9.38	0.988	0.0927
10	2,3,4,7,8-PeCDF	30.80	1.633	NO	7.6680e3	6.0048e5	1.250	-6.9	7.90	1.10	0.0667
11	1,2,3,4,7,8-HxCDF	33.41	1.265	NO	4.9645e3	4.2981e5	1.250	-7.1	9.76	0.995	0.0973
12	1,2,3,6,7,8-HxCDF	33.54	1.068	NO	5.3658e3	4.4419e5	1.250	-6.5	9.85	1.03	0.102
13	2,3,4,6,7,8-HxCDF	34.20	1.170	NO	5.0686e3	4.1461e5	1.250	-5.8	8.66	1.04	0.0899
14	1,2,3,7,8,9-HxCDF	35.21	1.221	NO	4.1972e3	3.4890e5	1.250	-4.8	8.95	1.01	0.0905
15	1,2,3,4,6,7,8-HpCDF	36.78	0.961	NO	4.1074e3	3.2381e5	1.250	-4.1	8.84	1.06	0.0936
16	1,2,3,4,7,8,9-HpCDF	38.76	1.061	NO	3.7318e3	2.5374e5	1.250	-0.5	9.26	1.18	0.110
17	OCDF	41.38	0.900	NO	6.1208e3	5.1833e5	2.500	2.8	8.48	0.922	0.0782
18	13C-2,3,7,8-TCDC	26.36	0.776	NO	6.1953e5	5.5977e5	100.000	-2.9	2.40	1.14	0.0274



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

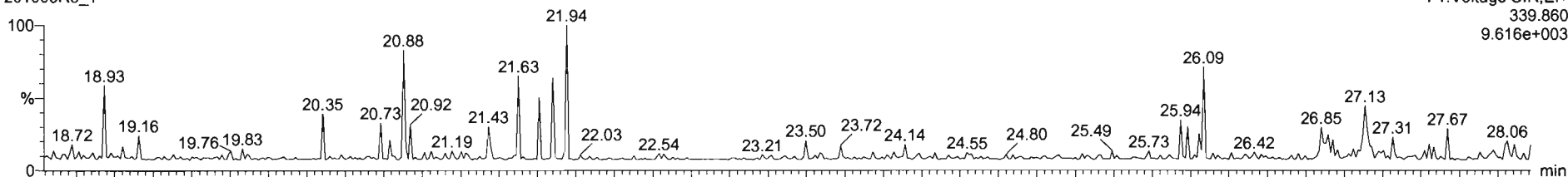
Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time

Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

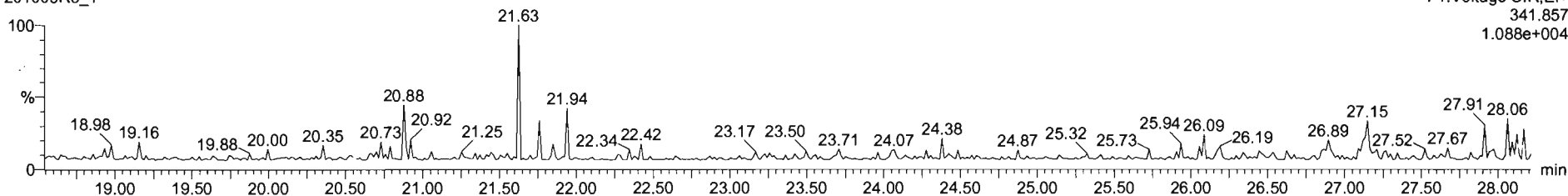
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1st Func. Penta-Furans

201009R5\_1

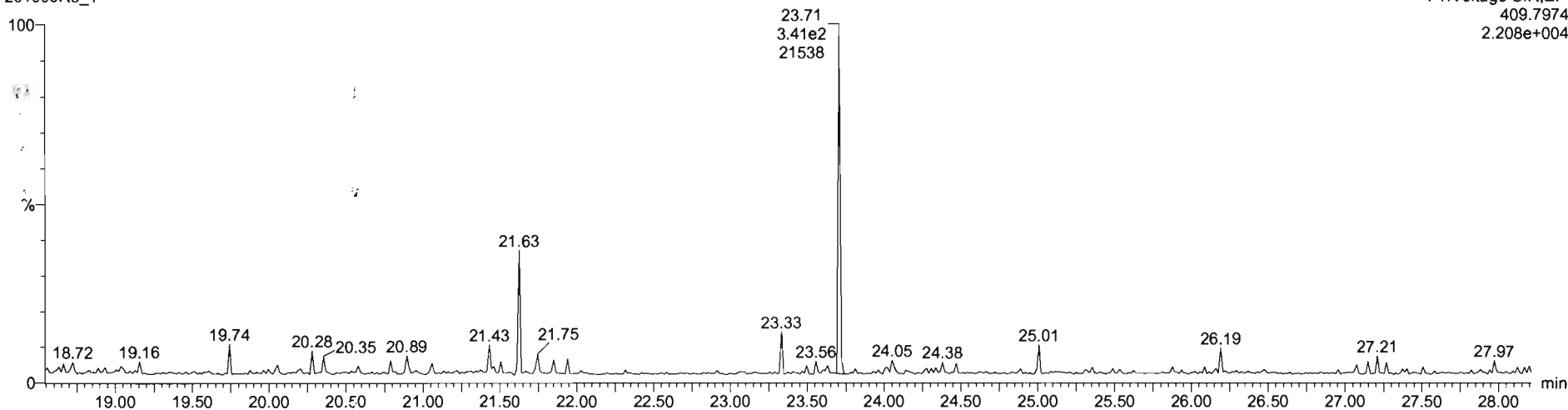


201009R5\_1



DPE6

201009R5\_1



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

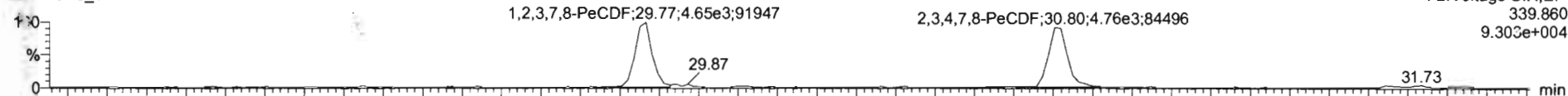
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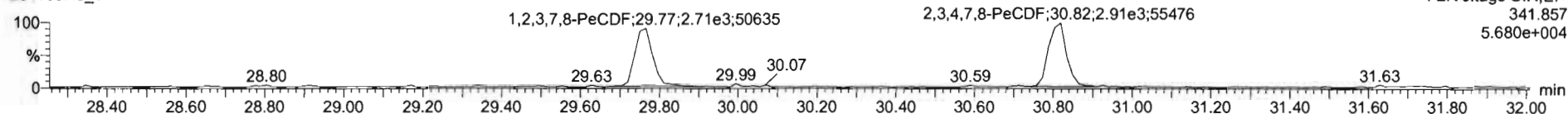
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**1,2,3,7,8-PeCDF**

201009R5\_1

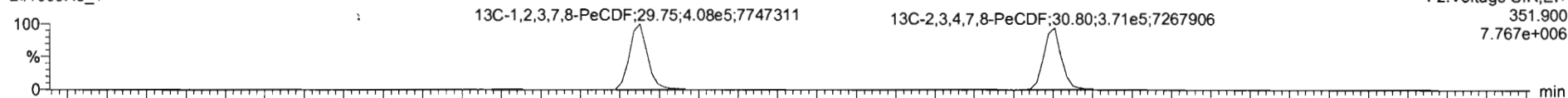


201009R5\_1

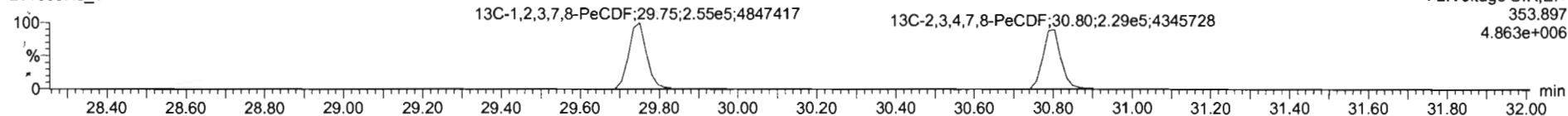


**13C-1,2,3,7,8-PeCDF**

201009R5\_1

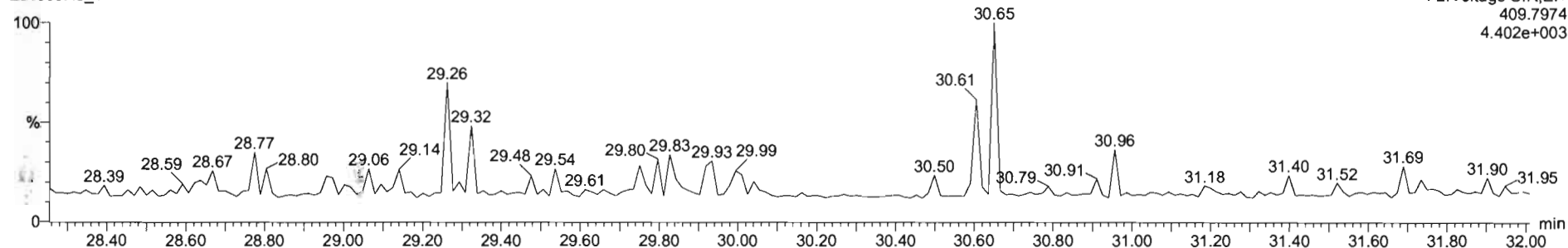


201009R5\_1

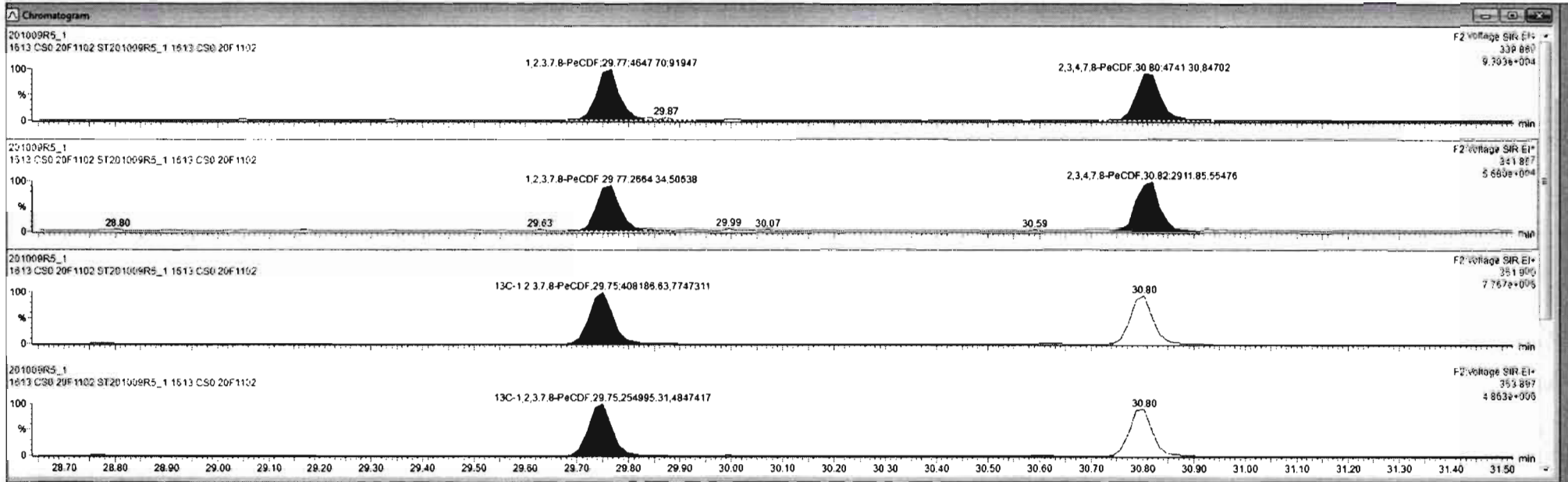


**DPE2**

201009R5\_1



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
41	41 Total Hexa-Dioxins				0.0000e0	1.250		7.15	0.968	0.0692	
42	42 Total Hepta-Dioxins				2.6120e5	1.250		8.29	0.943	0.0782	
43	43 Total Tetra-Furans				9.0371e5	0.250		9.60	0.871	0.0836	
44	44 1st Func. Penta-Furans				0.0000e0	1.250		9.52	0.987	0.0940	
45	45 Total Penta-Furans				0.0000e0	1.250		9.52	0.987	0.0940	
46	46 Total Hexa-Furans				0.0000e0	1.250		8.56	1.04	0.0880	
47	47 Total Hepta-Furans				0.0000e0	1.250		9.04	1.06	0.0954	
48	48 PFK1					1.000					
49	49 PFK2					1.000					
50	50 PFK3					1.000					
51	51 PFK4					1.000					
52	52 PFK5					1.000					
53	53 DPE1					1.000					
54	54 DPE2					1.000					
55	55 DPE3					1.000					
56	56 DPE4					1.000					
57	57 DPE5					1.000					
58	58 DPE6					1.000					

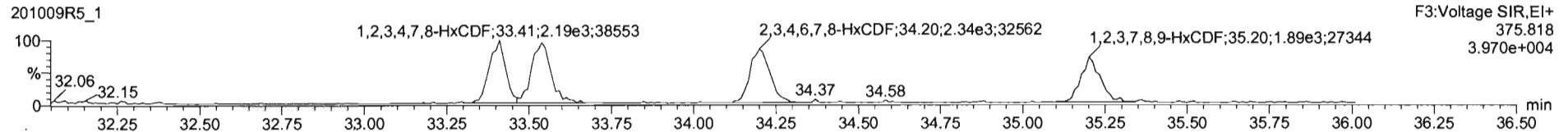
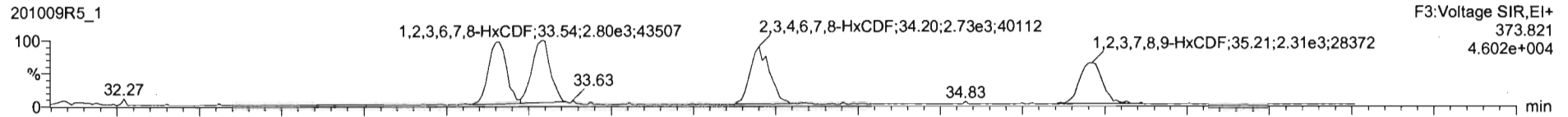


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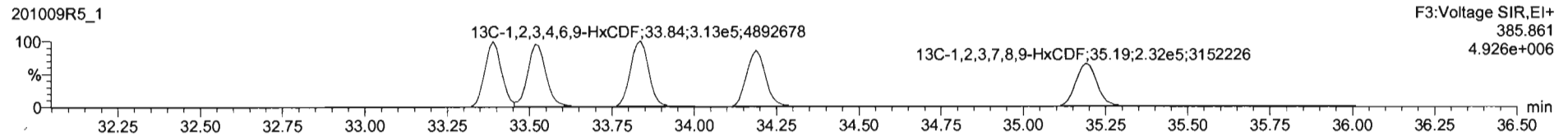
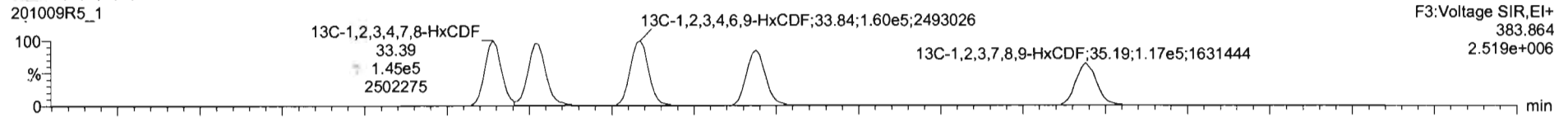
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_1, Date: 09-Oct-2020, Time: 16:21:58, ID: ST201009R5\_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

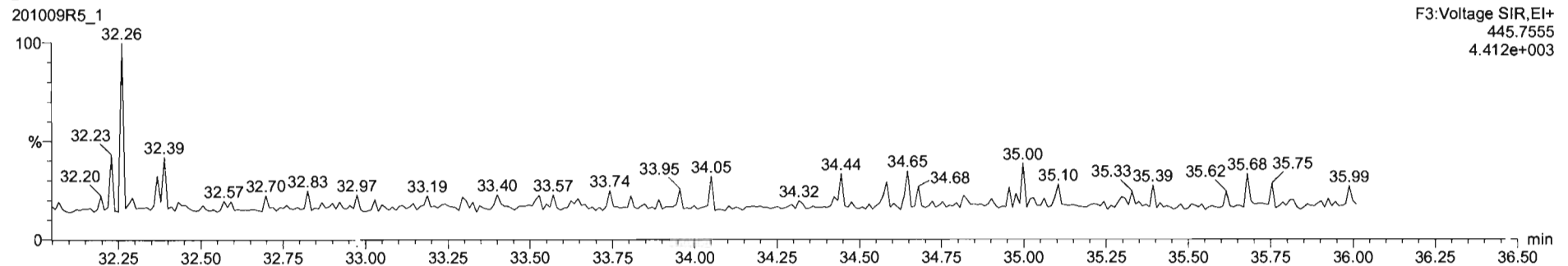
**1,2,3,4,7,8-HxCDF**



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

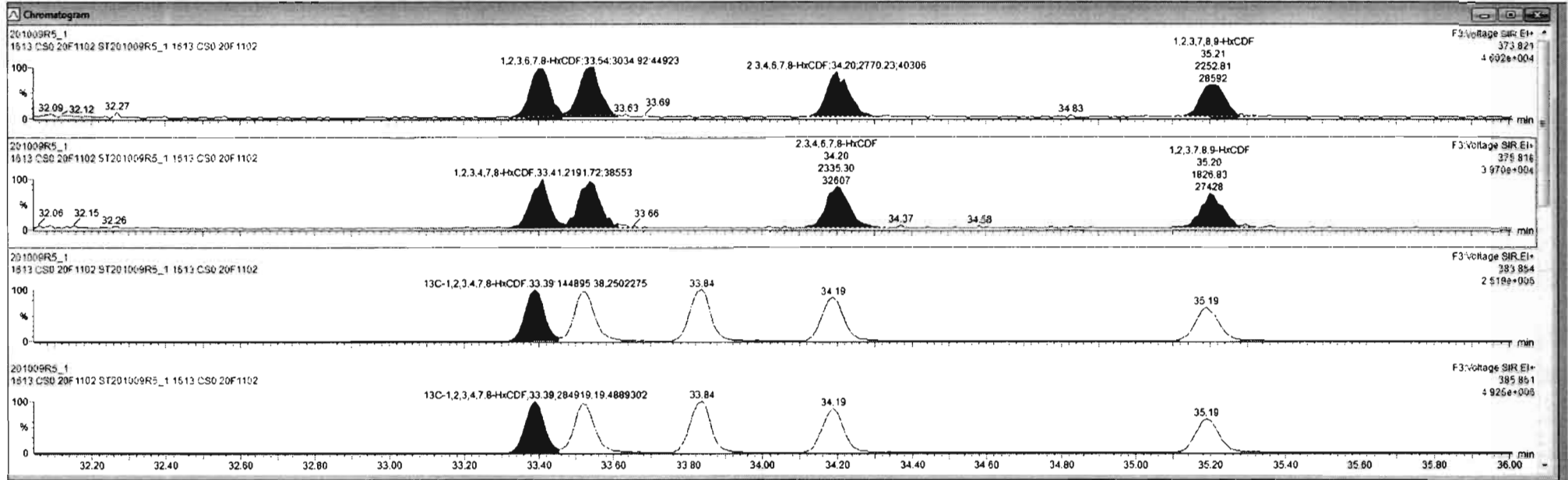


**DPE3**





#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
41	Total Hexa-Dioxins				0.0000e0	1.250		7.15	0.988	0.0692	
42	Total Hepta-Dioxins				2.6120e5	1.250		8.29	0.943	0.0782	
43	Total Tetra-Furans				5.0371e5	0.250		9.60	0.871	0.0636	
44	1st Func. Penta-Furans				0.0000e0	1.250		9.52	0.987	0.0940	
45	Total Penta-Furans				0.0000e0	1.250		9.52	0.987	0.0940	
46	Total Hexa-Furans				0.0000e0	1.250		8.56	1.04	0.0889	
47	Total Hepta-Furans				0.0000e0	1.250		9.04	1.06	0.0954	
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	DPE1					1.000					
54	DPE2					1.000					
55	DPE3					1.000					
56	DPE4					1.000					
57	DPE5					1.000					
58	DPE6					1.000					

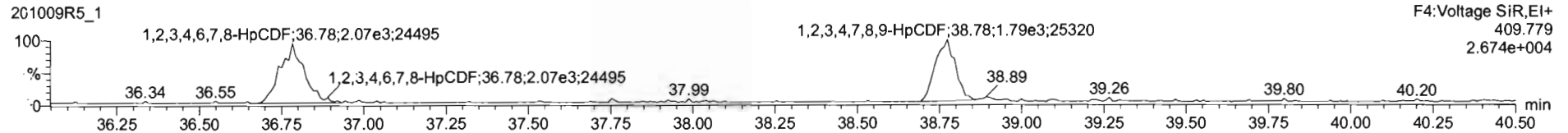
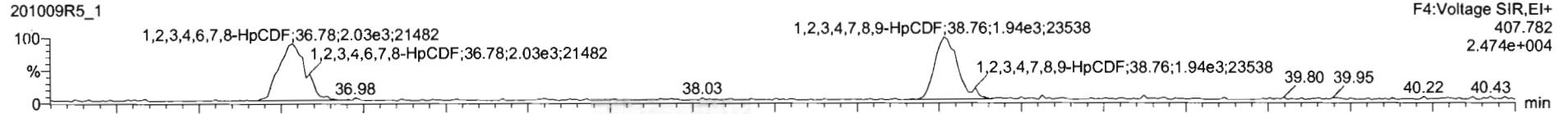


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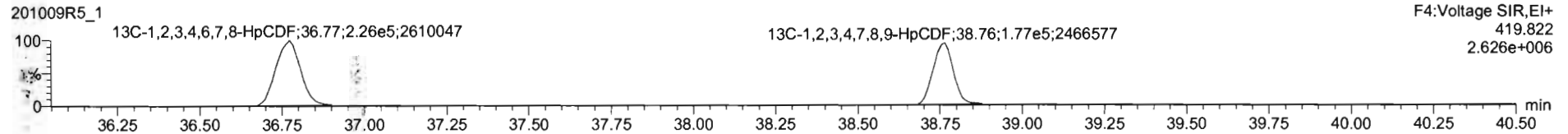
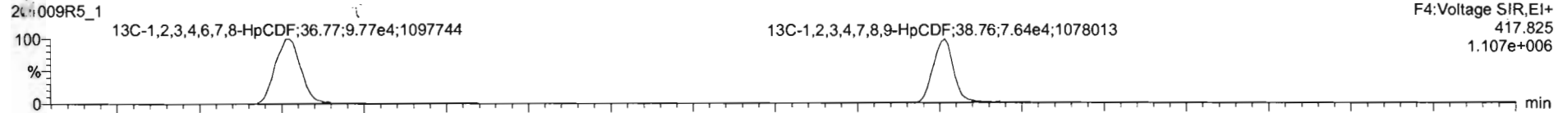
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

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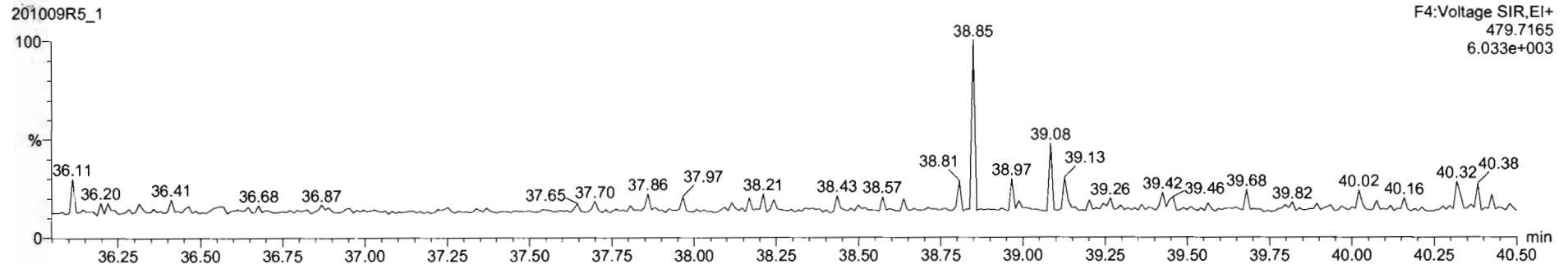
**1,2,3,4,6,7,8-HpCDF**



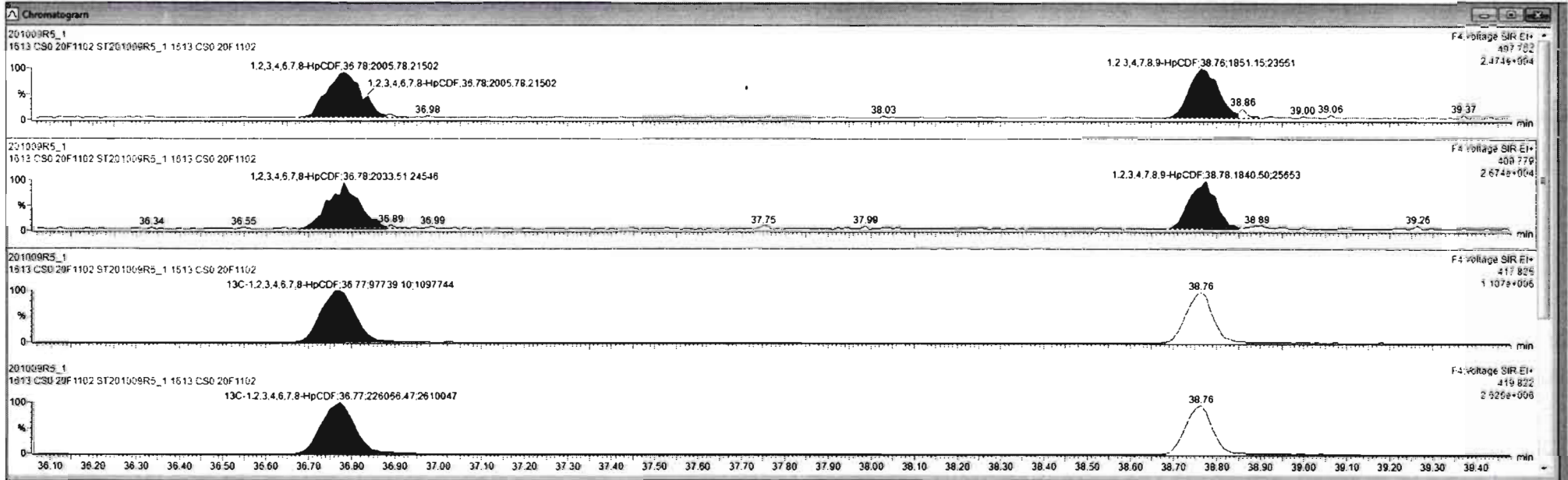
**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**



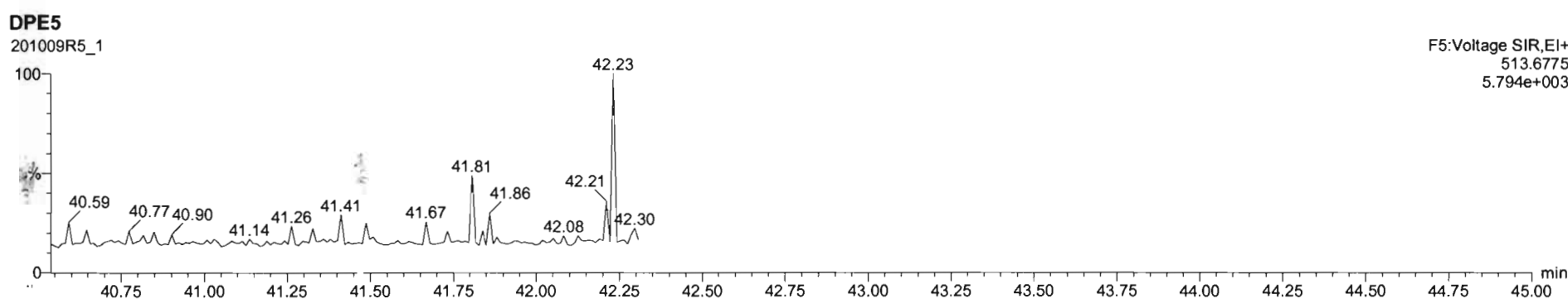
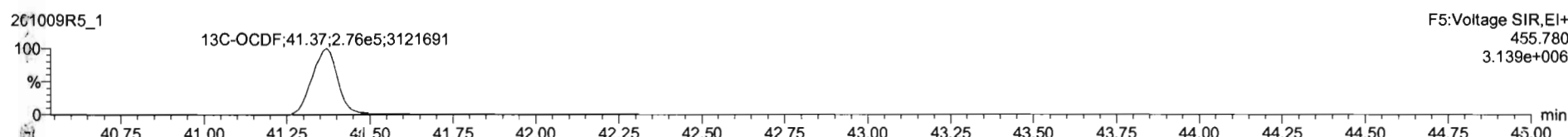
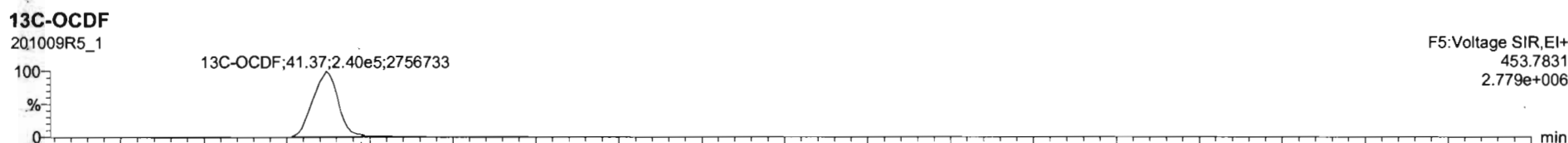
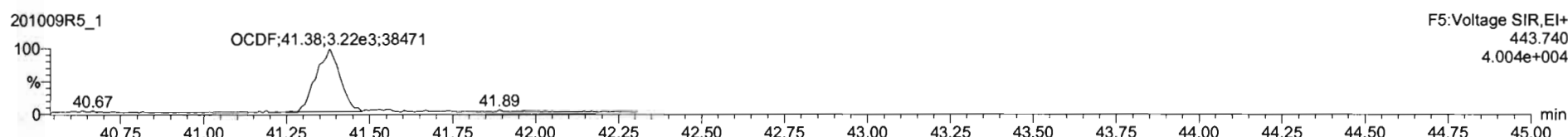
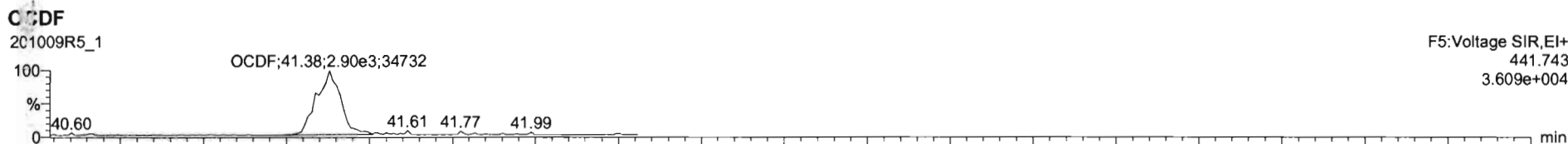
#	Name	RT	RA	yh	Area	S Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
41	Total Hexa-Dioxins				0.0000e0	1.250		7.15	0.968	0.0692	
42	Total Hepta-Dioxins				7.8120e5	1.250		8.29	0.943	0.0782	
43	Total Tetra-Furans				9.0371e5	0.250		9.60	0.871	0.0836	
44	1st Func. Penta-Furans				0.0000e0	1.250		9.52	0.987	0.0940	
45	Total Penta-Furans				0.0000e0	1.250		9.52	0.987	0.0940	
46	Total Hexa-Furans				0.0000e0	1.250		5.56	1.04	0.0890	
47	Total Hepta-Furans				0.0000e0	1.250		9.04	1.00	0.0954	
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	DPE1					1.000					
54	DPE2					1.000					
55	DPE3					1.000					
56	DPE4					1.000					
57	DPE5					1.000					
58	DPE6					1.000					



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

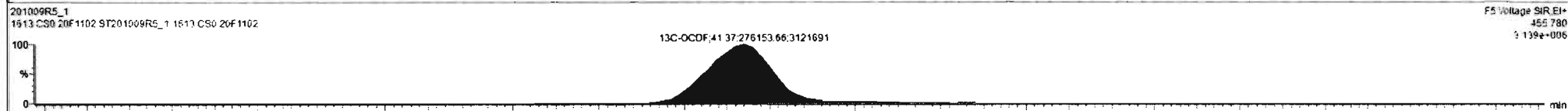
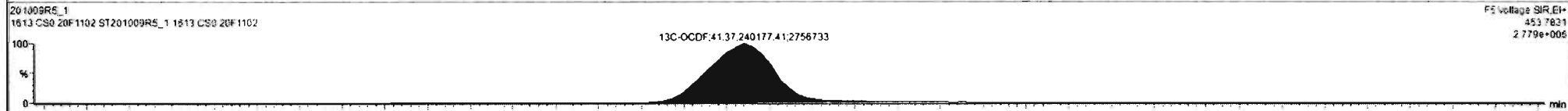
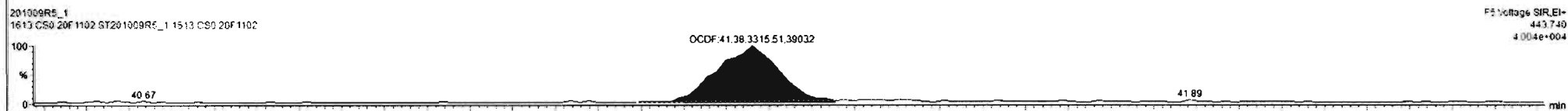
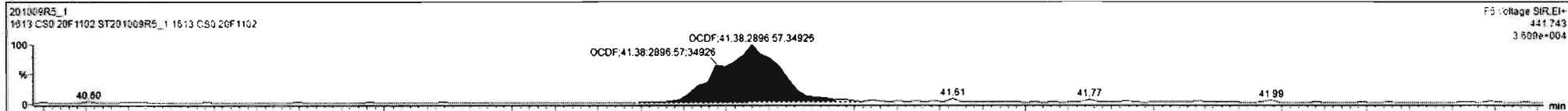
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_1, Date: 09-Oct-2020, Time: 16:21:58, ID: ST201009R5\_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102



201009R5\_1 - ST201009R5\_1 1613 CS0 20F1102 - 1613 CS0 20F1102

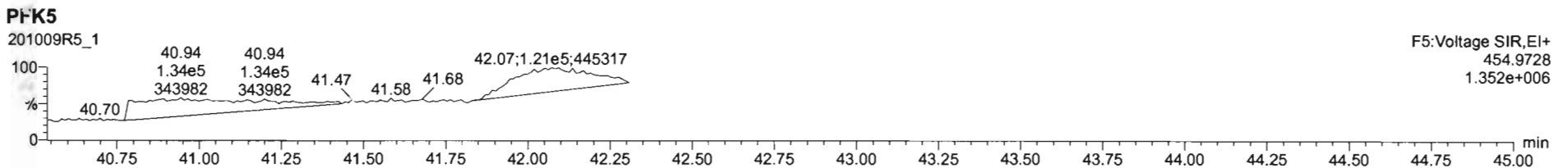
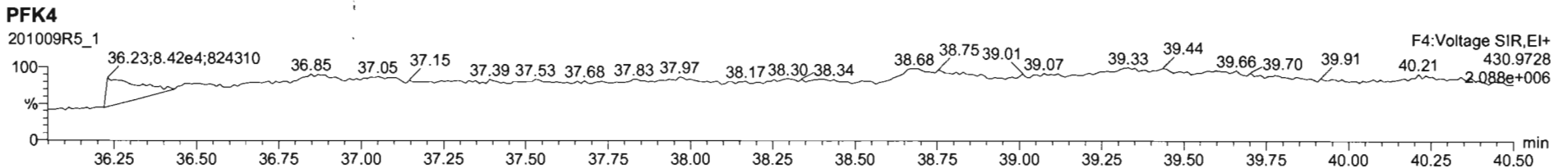
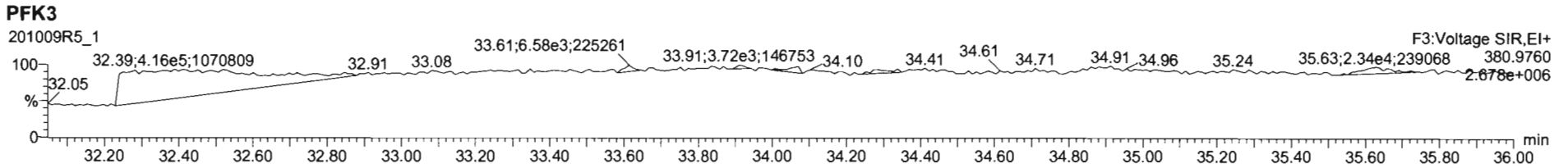
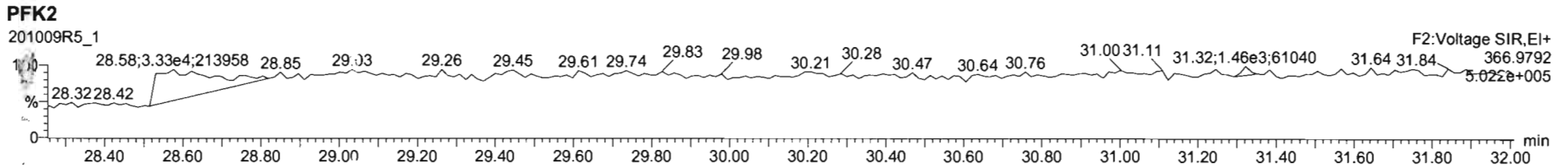
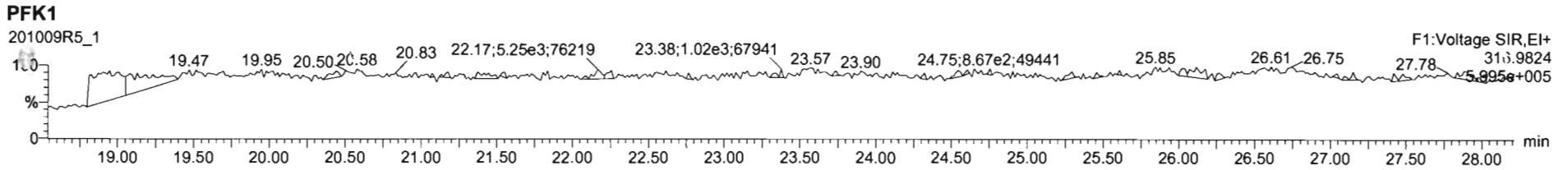
#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
17	OCDF	41.38	0.874	NO	6.2121e3	5.1833e5	2.500	4.1	8.58	0.925	0.0793
18	13C-2,3,7,8-TCDD	28.36	0.776	NO	6.1953e5	5.5977e5	100.000	-2.9	2.40	1.14	0.0274
19	13C-1,2,3,7,8-PeCDD	30.99	0.619	NO	3.9902e5	5.5977e5	100.000	-10.2	10.5	0.794	0.0635
20	13C-1,2,3,4,7,8-HxCDD	34.29	1.289	NO	3.1104e5	4.7257e5	100.000	-5.7	8.06	0.698	0.0565
21	13C-1,2,3,6,7,8-HxCDD	34.42	1.276	NO	3.4026e5	4.7257e5	100.000	7.5	7.82	0.778	0.0609
22	13C-1,2,3,7,8,9-HxCDD	34.69	1.257	NO	3.2857e5	4.7257e5	100.000	-7.4	7.74	0.751	0.0581
23	13C-1,2,3,4,6,7,8-HpCDD	38.15	1.070	NO	2.6120e5	4.7257e5	100.000	-7.8	9.32	0.599	0.0558
24	13C-OCDF	41.07	0.861	NO	4.2265e5	4.7257e5	200.000	-11.1	14.0	0.503	0.0705
25	13C-2,3,7,8-TCDF	25.88	0.794	NO	9.0371e5	9.3037e5	100.000	-2.3	1.46	0.994	0.0148
26	13C-1,2,3,7,8-PeCDF	29.75	1.601	NO	6.6310e5	9.3037e5	100.000	-4.1	7.41	0.743	0.0551
27	13C-2,3,4,7,8-PeCDF	30.80	1.617	NO	6.0048e5	9.3037e5	100.000	-11.1	9.92	0.726	0.0721
28	13C-1,2,3,4,7,8-HxCDF	33.38	0.509	NO	4.2981e5	4.7257e5	100.000	-7.1	6.30	0.979	0.0617
29	13C-1,2,3,6,7,8-HxCDF	33.52	0.505	NO	4.4419e5	4.7257e5	100.000	-5.8	6.96	0.998	0.0697
30	13C-2,3,4,6,7,8-HxCDF	34.19	0.518	NO	4.1461e5	4.7257e5	100.000	-7.2	6.36	0.945	0.0603
31	13C-1,2,3,7,8,9-HxCDF	35.19	0.503	NO	3.4890e5	4.7257e5	100.000	-7.6	8.36	0.799	0.0669
32	13C-1,2,3,4,6,7,8-HpCDF	36.77	0.432	NO	3.2381e5	4.7257e5	100.000	-5.0	7.56	0.721	0.0547
33	13C-1,2,3,4,7,8,9-HpCDF	38.76	0.430	NO	2.5374e5	4.7257e5	100.000	-5.0	9.83	0.565	0.0558
34	13C-OCDF	41.37	0.870	NO	5.1633e5	4.7257e5	200.000	-9.9	14.3	0.807	0.0870



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

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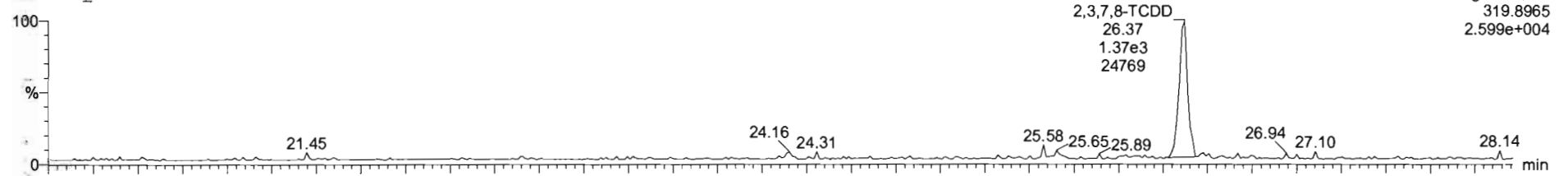
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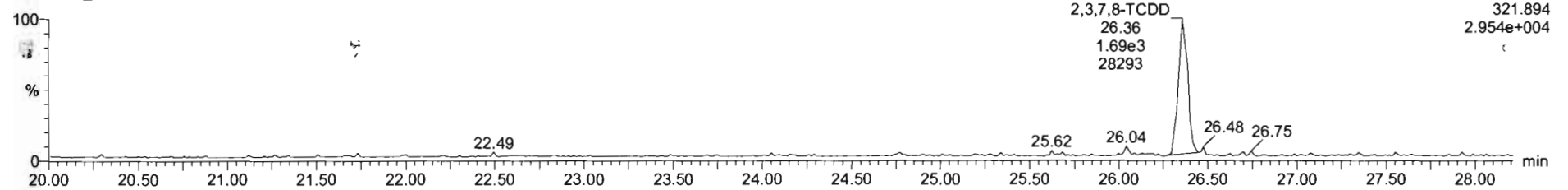
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**2,3,7,8-TCDD**

201009R5\_2

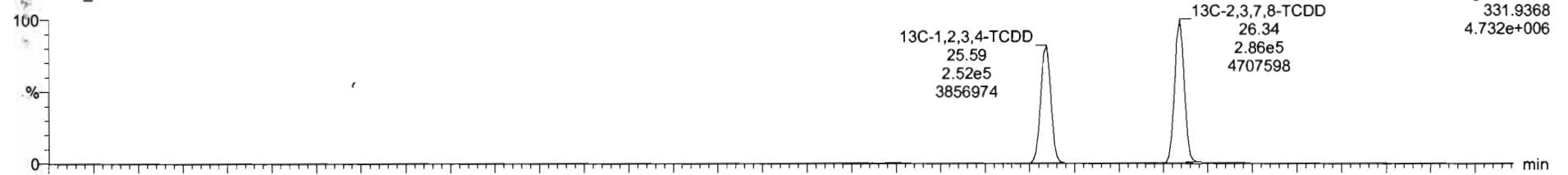


201009R5\_2

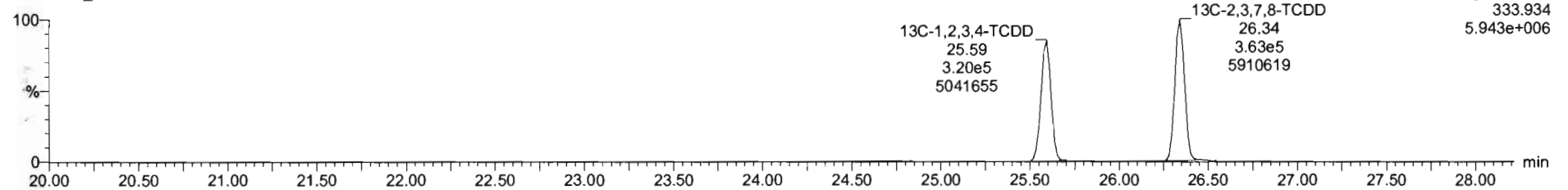


**13C-2,3,7,8-TCDD**

201009R5\_2



201009R5\_2



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

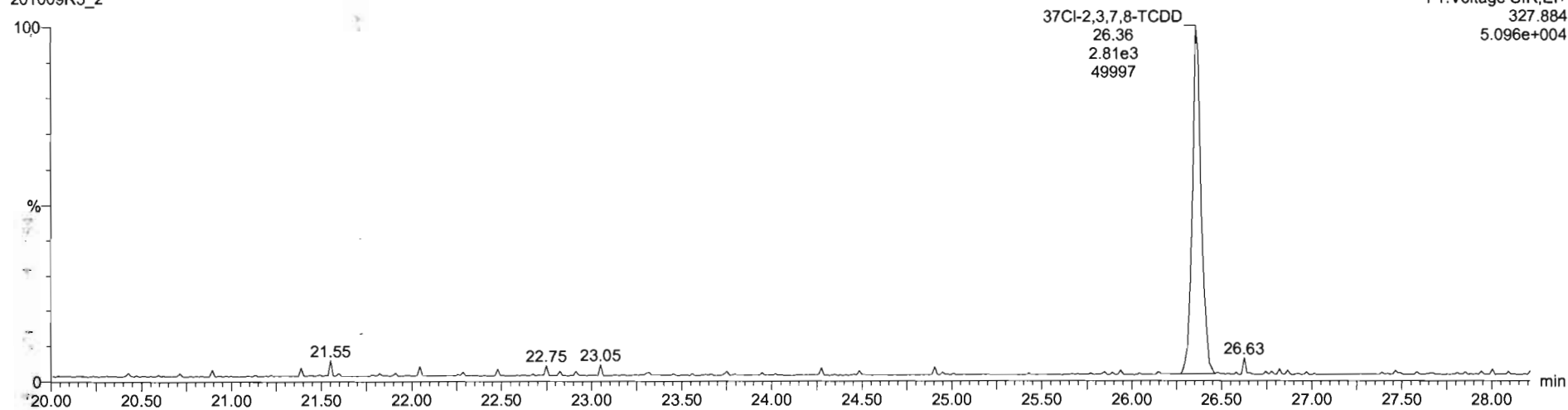
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

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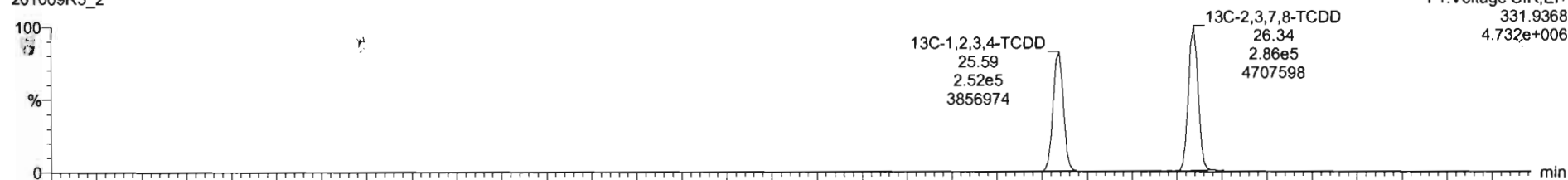
37Cl-2,3,7,8-TCDD

201009R5\_2

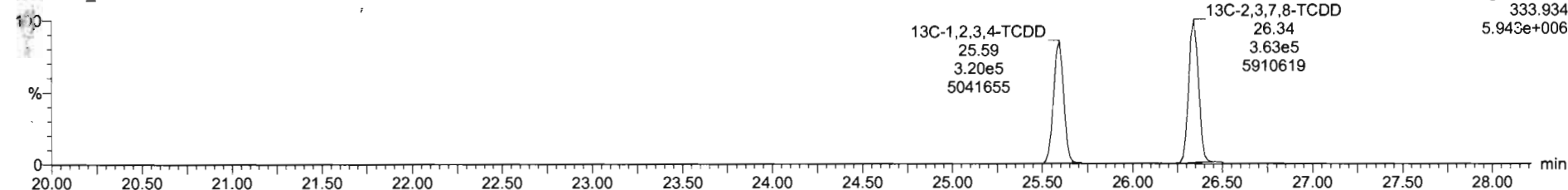


13C-1,2,3,4-TCDD

201009R5\_2



201009R5\_2





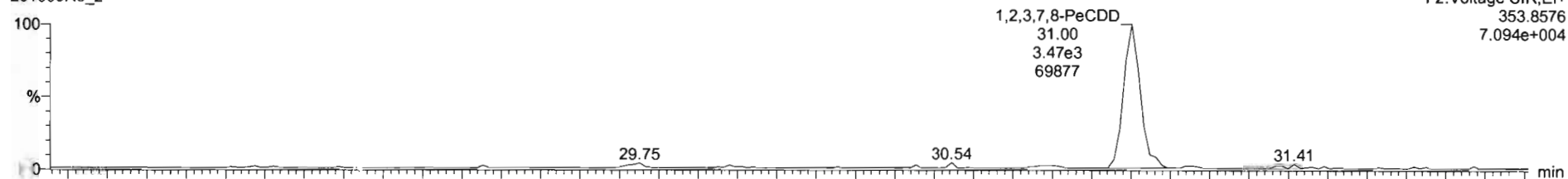
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

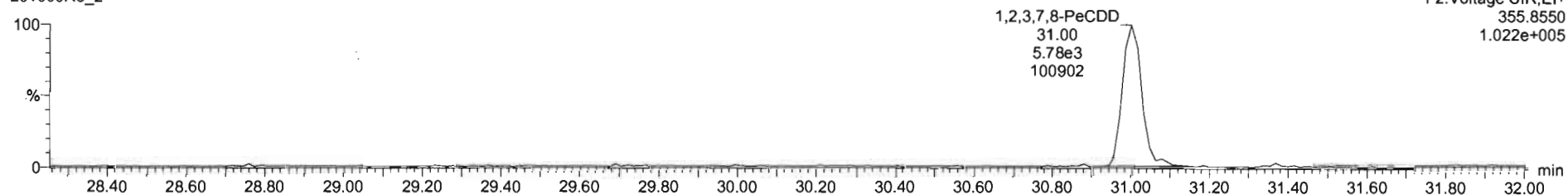
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1,2,3,7,8-PeCDD

201009R5\_2

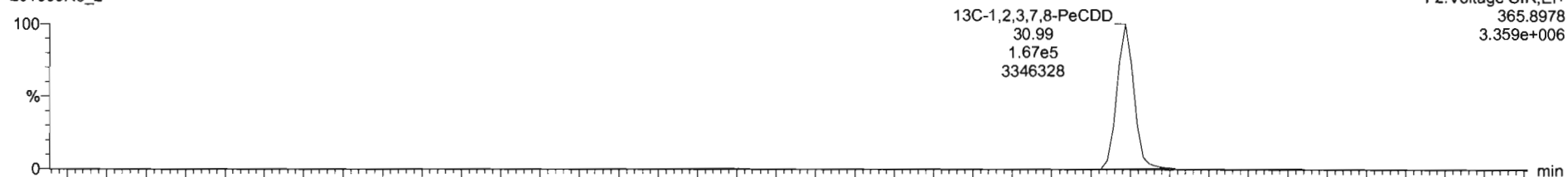


201009R5\_2

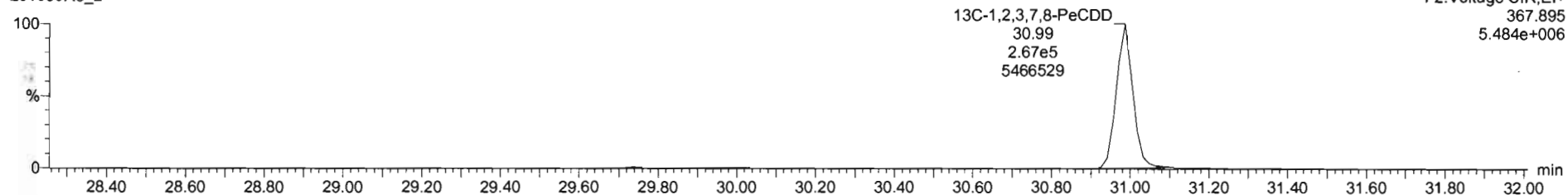


13C-1,2,3,7,8-PeCDD

201009R5\_2

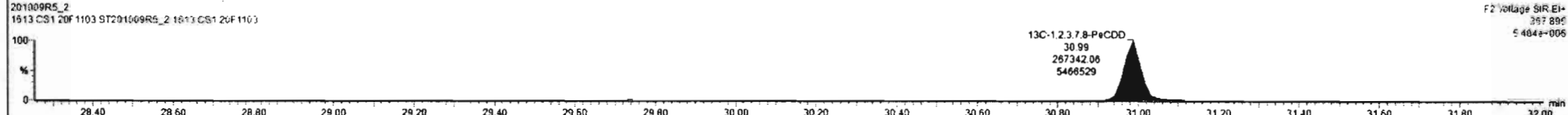
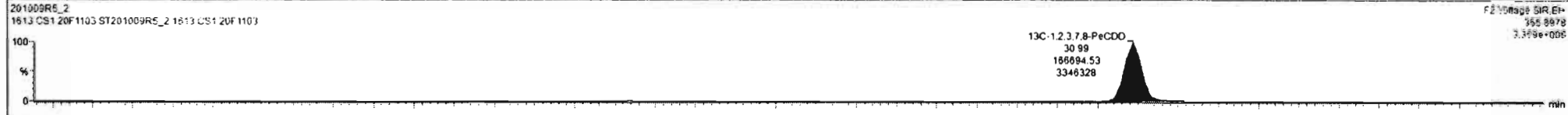
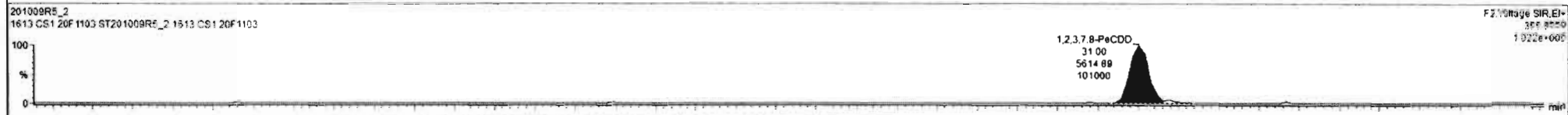
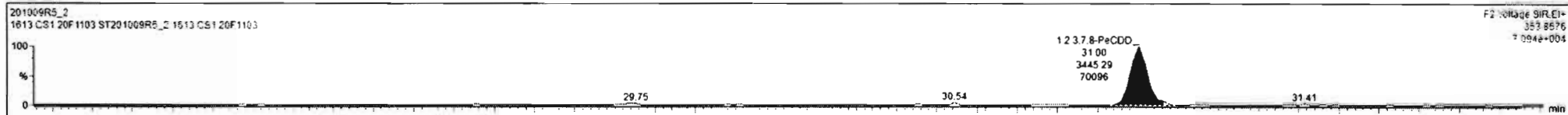


201009R5\_2



201009R5\_2 ST201009R5\_2 1613 CS1 20F1103 - 1613 CS1 20F1103

#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
39	Total Tetra-Dioxins				6.4955e5	0.500		8.35	1.03	0.0857	
40	Total Penta-Dioxins				4.5404e5	2.500		8.48	0.929	0.0788	
41	Total Hexa-Dioxins				0.0000e0	2.500		7.15	0.988	0.0492	
42	Total Hepta-Dioxins				2.7524e5	2.500		8.28	0.943	0.0782	
43	Total Tetra-Furans				9.3194e5	0.500		8.60	0.871	0.0836	
44	1st Func. Penta-Furans				0.0000e0	2.500		9.52	0.987	0.0940	
45	Total Penta-Furans				0.0000e0	2.500		9.52	0.987	0.0940	
46	Total Hexa-Furans				0.0000e0	2.500		8.56	1.04	0.0890	
47	Total Hepta-Furans				0.0000e0	2.500		9.04	1.06	0.0954	
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	DPE1					1.000					
54	DPE2					1.000					
55	DPE3					1.000					
56	DPE4					1.000					



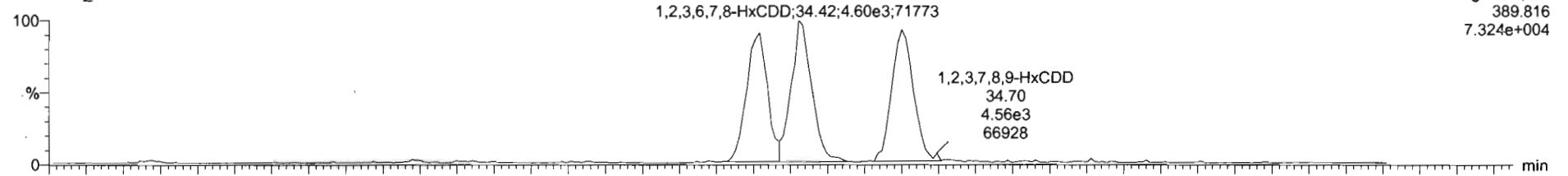
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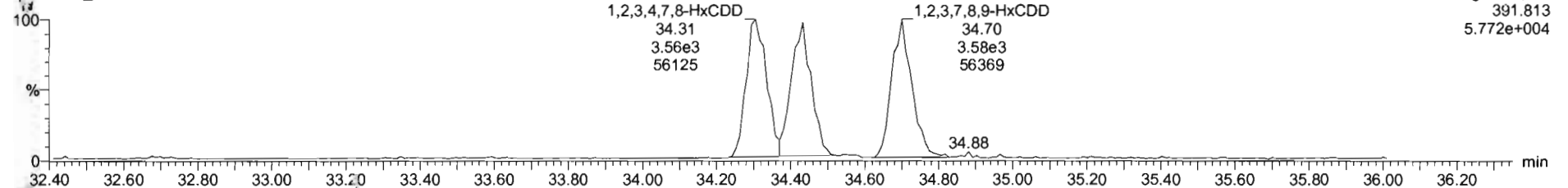
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1,2,3,4,7,8-HxCDD

201009R5\_2

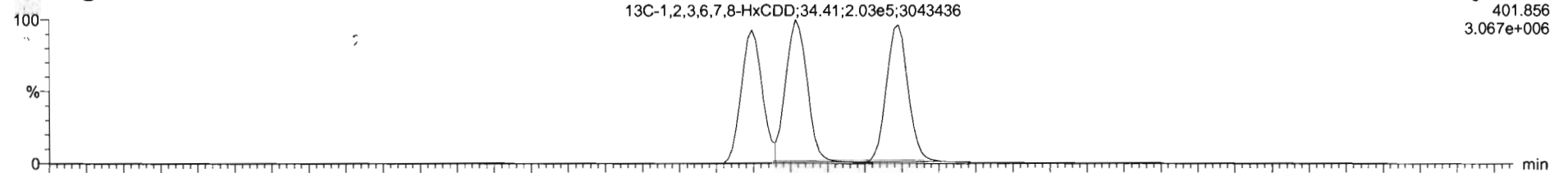


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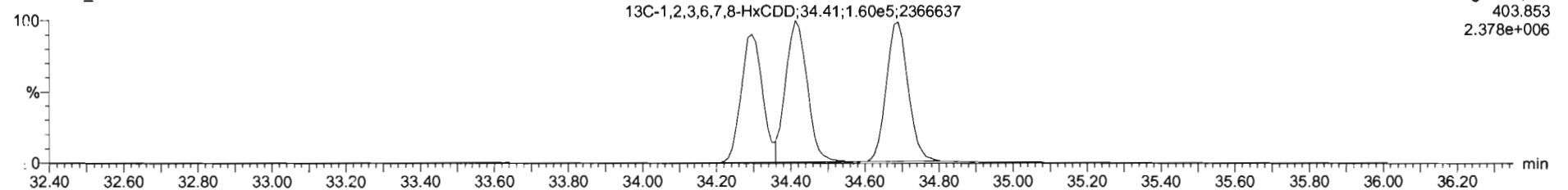


13C-1,2,3,4,7,8-HxCDD

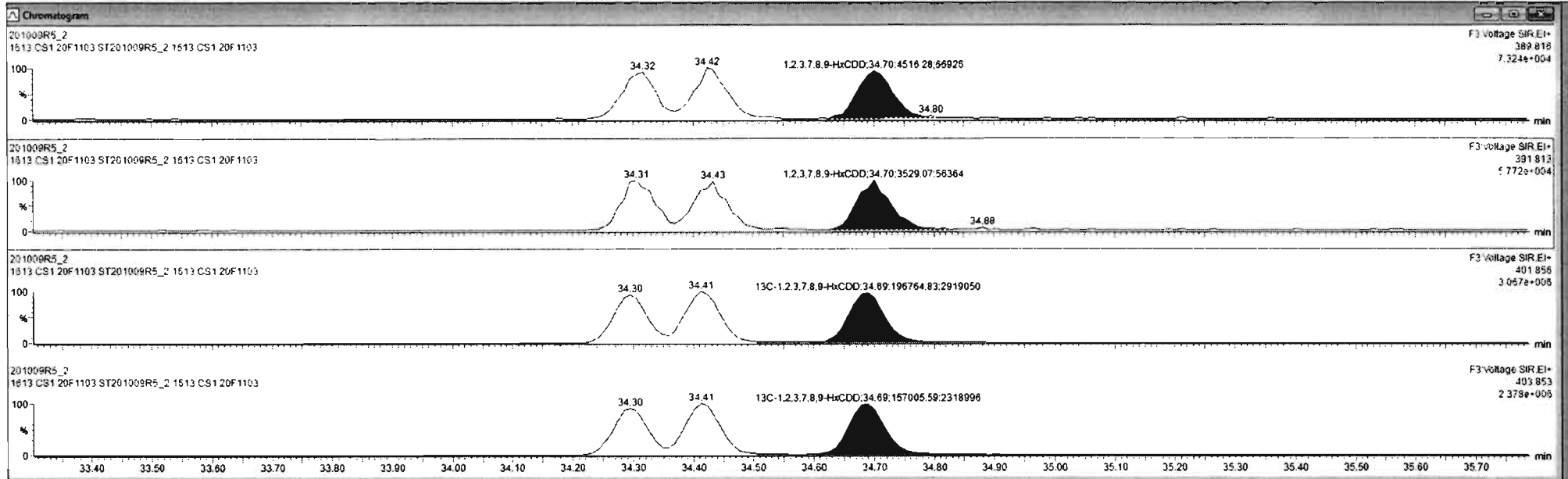
201009R5\_2



201009R5\_2



#	Name	RT	RA	ym	Area	S Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
3	1,2,3,4,7,8-HxCDD	34.32	1.197	NO	7.8260e3	3.2737e5	2.500	-11.3	8.13	1.08	0.0878
4	1,2,3,6,7,8-HxCDD	34.42	1.351	NO	7.9983e3	3.6356e5	2.500	-9.1	7.15	0.988	0.0692
5	1,2,3,7,8,9-HxCDD	34.78	1.280	NO	8.0454e3	3.5377e5	2.500	-8.7	8.29	0.996	0.0526
6	1,2,3,4,6,7,8-HxCDC	38.16	1.628	NO	5.8602e3	2.7934e5	2.500	-11.0	8.29	0.943	0.0782
7	OCDD	41.08	0.876	NO	9.5912e3	4.5457e5	5.000	-8.9	7.49	0.926	0.0694
8	2,3,7,8-TCDF	25.68	0.751	NO	3.6419e3	9.3104e5	0.500	-10.2	9.60	0.871	0.0836
9	1,2,3,7,8-PeCDF	29.75	1.572	NO	1.4638e4	6.5512e5	2.500	-9.5	9.52	0.987	0.0940
10	2,3,4,7,8-PeCDF	30.80	1.667	NO	1.6409e4	6.5849e5	2.500	-8.1	7.94	1.10	0.0871
11	1,2,3,4,7,8-HxCDF	33.38	1.174	NO	1.0230e4	4.6512e5	2.500	-11.7	8.65	0.996	0.0961
12	1,2,3,6,7,8-HxCDF	33.54	1.078	NO	1.0516e4	4.6945e5	2.500	-13.6	9.53	1.04	0.0989
13	2,3,4,6,7,8-HxCDF	34.20	1.309	NO	1.0718e4	4.5394e5	2.500	-9.1	8.56	1.04	0.0890
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	8.6054e3	3.7506e5	2.500	-8.8	9.34	1.01	0.0940
15	1,2,3,4,6,7,8-HxCDF	36.79	1.002	NO	8.0073e3	3.3790e5	2.500	-10.2	9.04	1.06	0.0954
16	1,2,3,4,7,8,9-HpCDF	38.78	1.033	NO	7.0218e3	2.6876e5	2.500	-11.4	9.32	1.18	0.110
17	OCDF	41.37	0.902	NO	1.1136e4	5.4517e5	5.000	-11.6	8.58	0.925	0.0792
18	13C-2,3,7,8-TCDD	26.34	0.768	NO	6.4955e5	5.7262e5	100.000	-0.5	2.40	1.14	0.0274
19	13C-1,2,3,7,8-PeCDD	30.99	0.624	NO	4.3404e5	5.7262e5	100.000	-4.6	10.5	0.794	0.0835
20	13C-1,2,3,4,7,8-HxCDD	34.29	1.293	NO	3.2737e5	4.8234e5	100.000	-2.8	8.09	0.898	0.0565



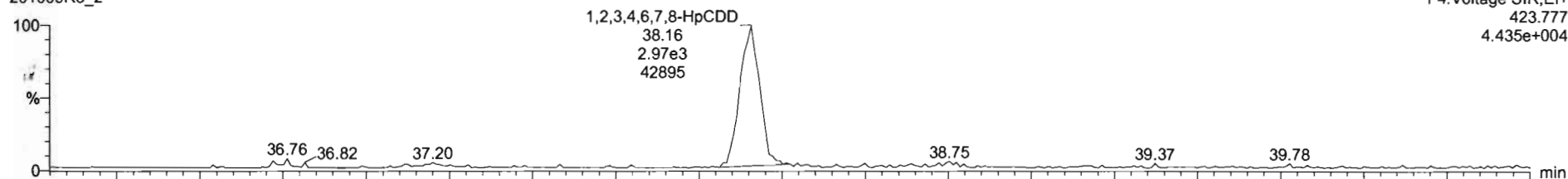
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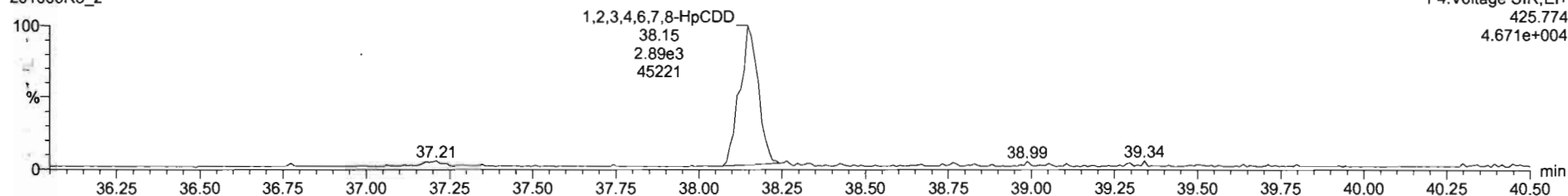
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1,2,3,4,6,7,8-HpCDD

201009R5\_2

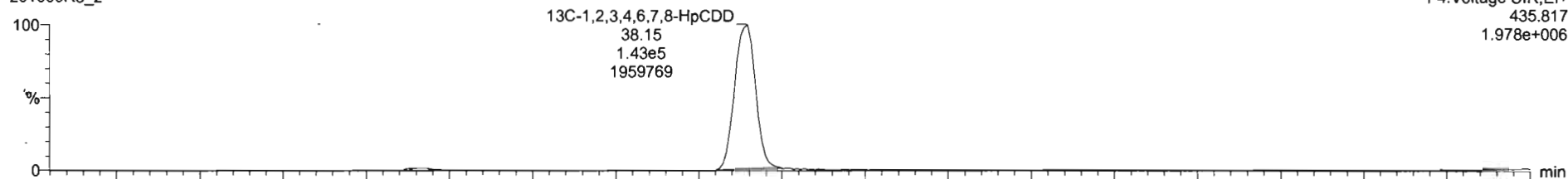


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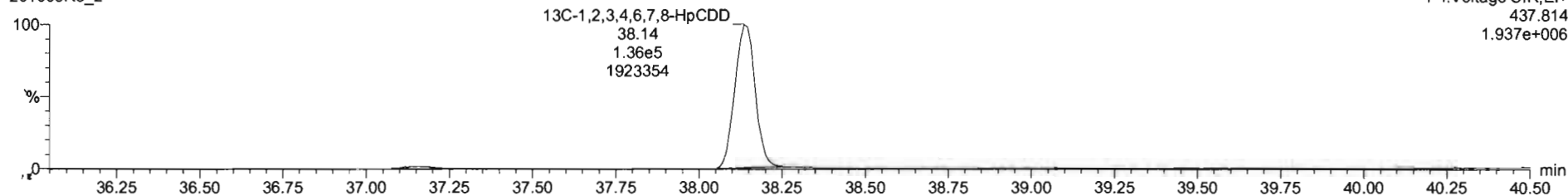


13C-1,2,3,4,6,7,8-HpCDD

201009R5\_2

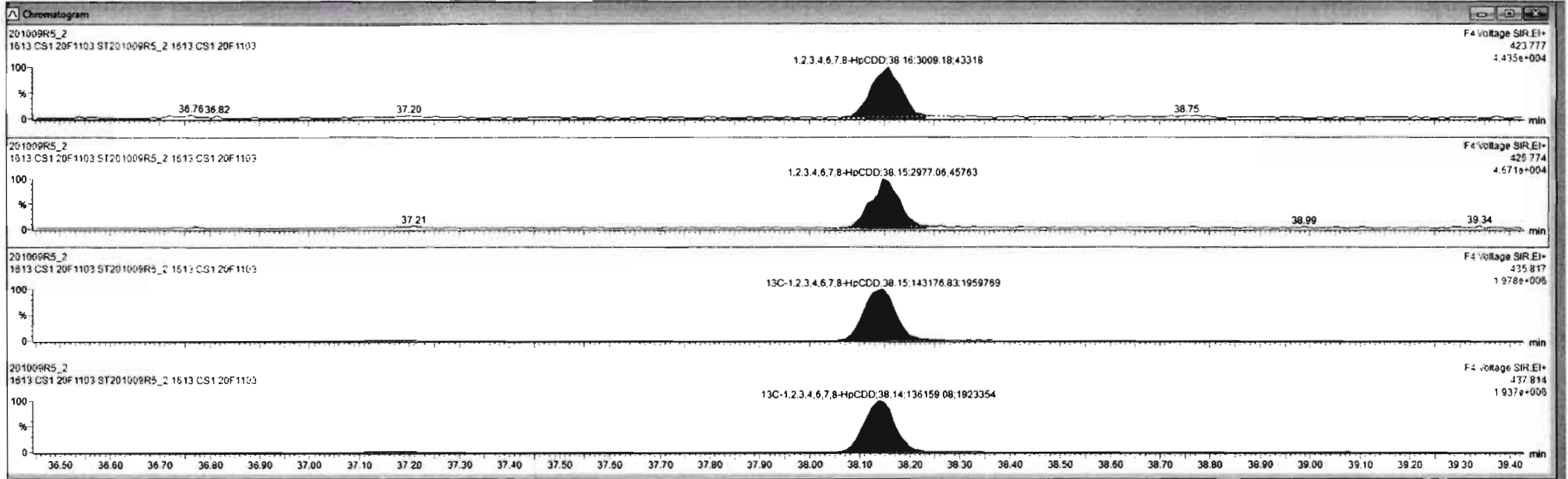


201009R5\_2



201009R5\_2 - ST201009R5\_2 1613 CS1 20F1103 - 1613 CS1 20F1103

#	S	Name	RT	RA	yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
3	3	1,2,3,4,7,8-HxCDD	34.32	1.197	NO	7.8260e3	3.2737e5	2.500	-11.3	8.13	1.08	0.0678
4	4	1,2,3,6,7,8-HxCDD	34.42	1.351	NO	7.9983e3	3.6356e5	2.500	-9.1	7.15	0.968	0.0692
5	5	1,2,3,7,8,9-HxCDD	34.70	1.280	NO	8.0454e3	3.5377e5	2.500	-8.7	8.29	0.996	0.0826
6	6	1,2,3,4,6,7,8-HpCDD	38.18	1.811	NO	5.9862e3	2.7934e5	2.500	-9.4	7.78	0.946	0.0738
7	7	OCDD	41.08	0.878	NO	9.5912e3	4.5457e5	5.000	-8.9	7.49	0.926	0.0694
8	8	2,3,7,8-TCDF	25.68	0.751	NO	3.6419e3	9.3104e5	0.500	-10.2	9.60	0.871	0.0838
9	9	1,2,3,7,8-PeCDF	29.75	1.572	NO	1.4638e4	6.5513e5	2.500	-9.5	9.52	0.987	0.0940
10	10	2,3,4,7,8-PeCDF	30.88	1.667	NO	1.6409e4	6.5849e5	2.500	-9.1	7.94	1.10	0.0871
11	11	1,2,3,4,7,8-HxCDF	33.38	1.174	NO	1.0230e4	4.6512e5	2.500	-11.7	9.65	0.896	0.0961
12	12	1,2,3,6,7,8-HxCDF	33.54	1.078	NO	1.0516e4	4.6945e5	2.500	-13.6	9.53	1.04	0.0989
13	13	2,3,4,6,7,8-HxCDF	34.20	1.309	NO	1.0718e4	4.5794e5	2.500	-9.1	8.56	1.04	0.0860
14	14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	8.6054e3	3.7506e5	2.500	-8.8	9.34	1.01	0.0940
15	15	1,2,3,4,6,7,8-HpCDF	36.79	1.802	NO	8.0073e3	3.3790e5	2.500	-10.2	9.04	1.06	0.0954
16	16	1,2,3,4,7,8,9-HpCDF	38.78	1.833	NO	7.6218e3	2.6878e5	2.500	-11.4	9.32	1.18	0.110
17	17	OCDF	41.37	0.902	NO	1.1136e4	5.4517e5	5.000	-11.6	8.56	0.925	0.0793
18	18	13C-2,3,7,8-TCDD	26.34	0.768	NO	6.4955e5	5.7262e5	100.000	-0.5	2.40	1.14	0.0274
19	19	13C-1,2,3,7,8-PeCDD	30.99	0.624	NO	4.3404e5	5.7262e5	100.000	-4.6	10.5	0.794	0.0835
20	20	13C-1,2,3,4,7,8-HxCDD	34.29	1.293	NO	3.2737e5	4.8234e5	100.000	-2.6	8.09	0.898	0.0565



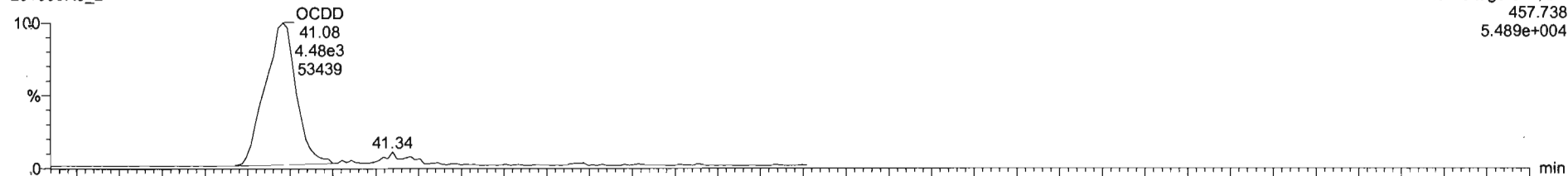
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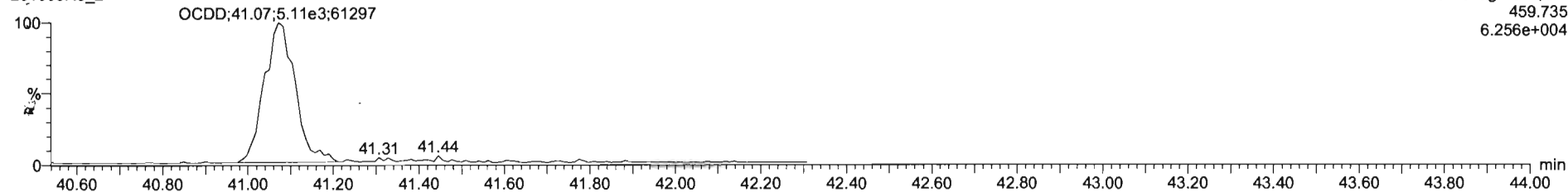
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OCDD

201009R5\_2

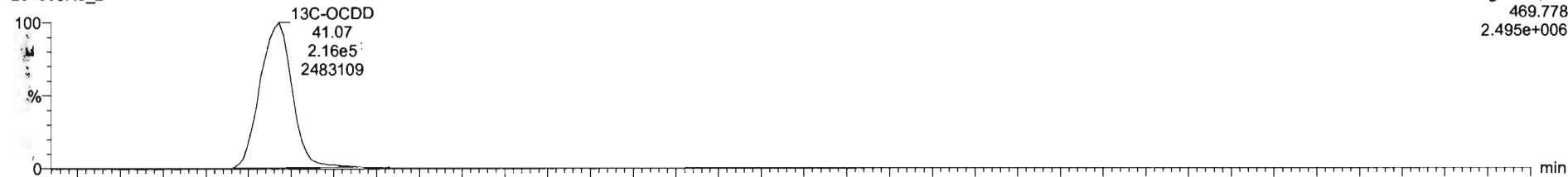


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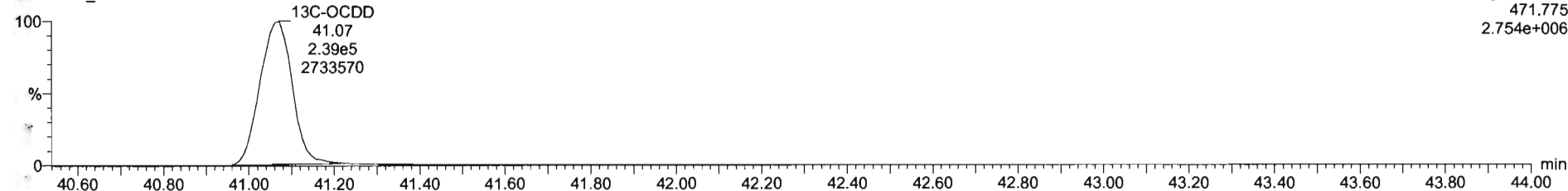


13C-OCDD

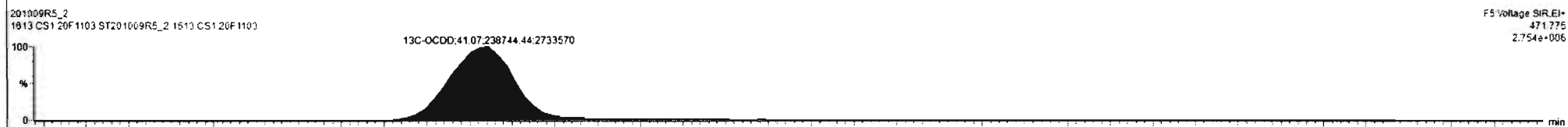
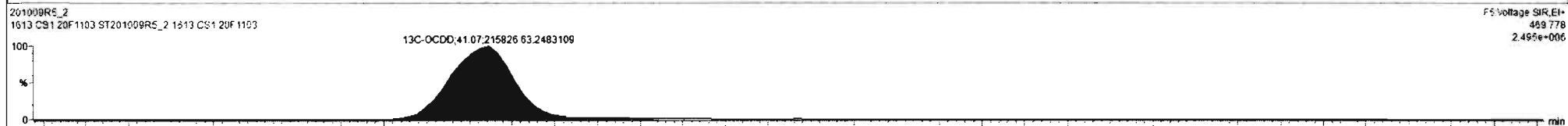
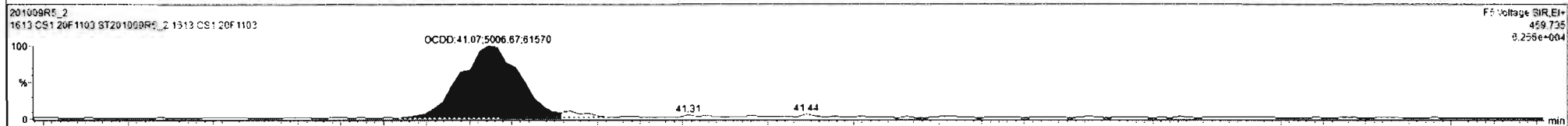
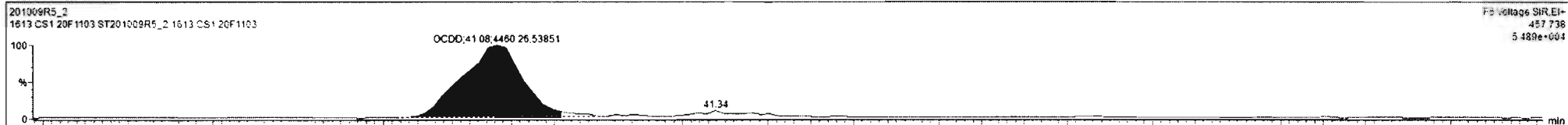
201009R5\_2



201009R5\_2



#	Name	RT	RA	Yth	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M.	RRF SD
3	1,2,3,4,7,8-HxCDD	34.32	1.197	NO	7.8290e3	3.2737e5	2.500	-11.3	8.13	1.08	0.0876
4	1,2,3,6,7,8-HxCDD	34.42	1.351	NO	7.9983e3	3.6356e5	2.500	-9.1	7.15	0.968	0.0692
5	1,2,3,7,8,9-HxCDD	34.70	1.286	NO	8.0454e3	3.5377e5	2.500	-8.7	8.29	0.996	0.0826
6	1,2,3,4,6,7,8-HpCDD	38.16	1.011	NO	5.9867e3	2.7934e5	2.500	-9.4	7.78	0.946	0.0736
7	OCDD	41.08	0.891	NO	9.4909e3	4.5457e5	2.500	-9.9	7.80	0.925	0.0721
8	2,3,7,8-TCDF	25.68	0.751	NO	3.6419e3	9.3184e5	0.660	-10.2	9.60	0.871	0.0836
9	1,2,3,7,8-PeCDF	29.75	1.572	NO	1.4838e4	6.5513e5	2.500	-9.5	9.52	0.987	0.0940
10	2,3,4,7,8-PeCDF	30.80	1.667	NO	1.8409e4	6.5849e5	2.500	-9.1	7.94	1.10	0.0871
11	1,2,3,4,7,8-HxCDF	33.38	1.174	NO	1.0230e4	4.6512e5	2.500	-11.7	9.65	0.996	0.0961
12	1,2,3,6,7,8-HxCDF	33.54	1.078	NO	1.0516e4	4.6945e5	2.500	-13.8	9.53	1.04	0.0989
13	2,3,4,6,7,8-HxCDF	34.20	1.309	NO	1.0718e4	4.5394e5	2.500	-9.1	8.56	1.04	0.0890
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	8.6054e3	3.7506e5	2.500	-8.8	9.34	1.01	0.0940
15	1,2,3,4,6,7,8-HpCDF	36.79	1.062	NO	6.0073e3	3.3790e5	2.500	-10.2	9.04	1.06	0.0954
16	1,2,3,4,7,8,9-HpCDF	38.78	1.033	NO	7.0218e3	2.6878e5	2.500	-11.4	9.32	1.18	0.110





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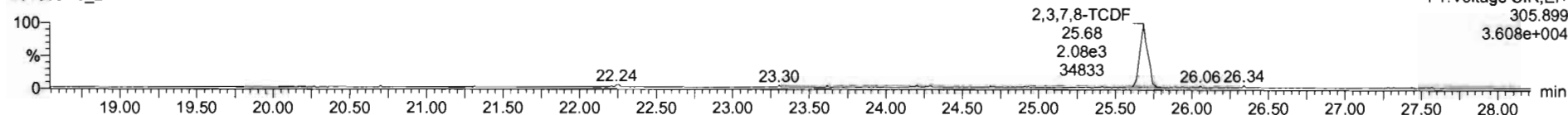
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**2,3,7,8-TCDF**

201009R5\_2

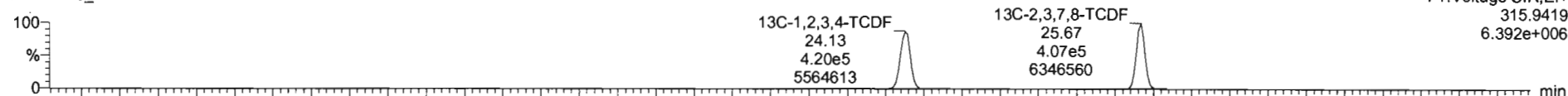


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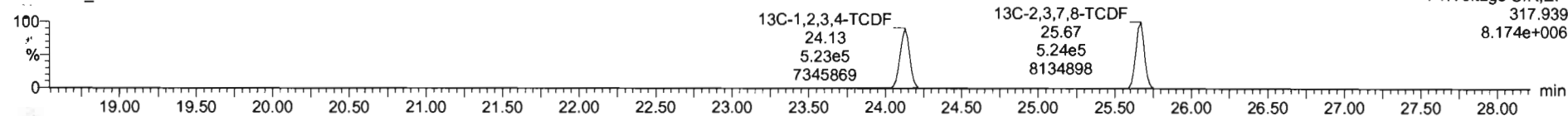


**13C-2,3,7,8-TCDF**

201009R5\_2

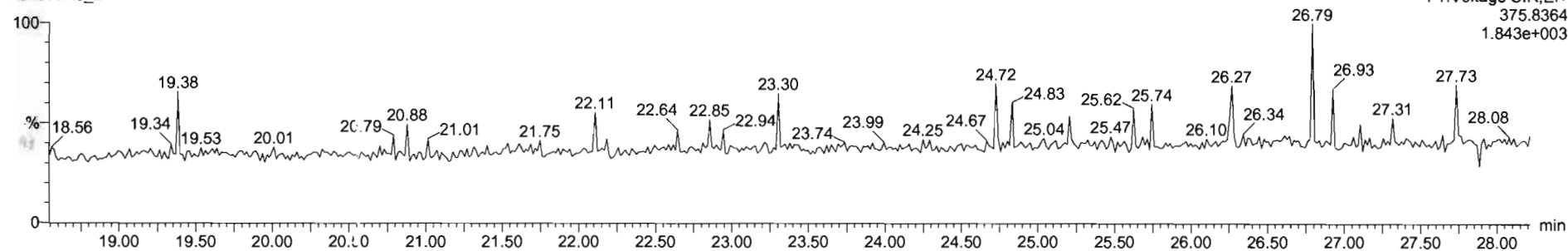


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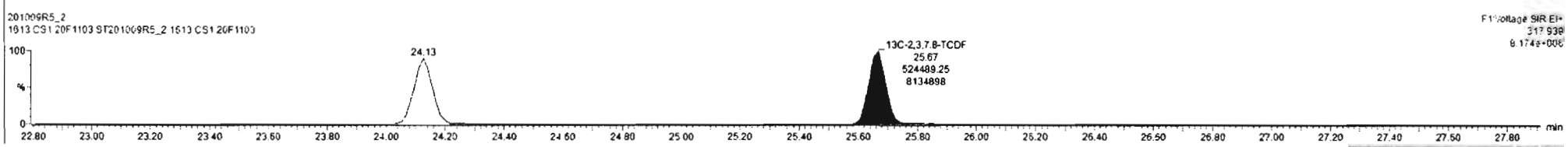
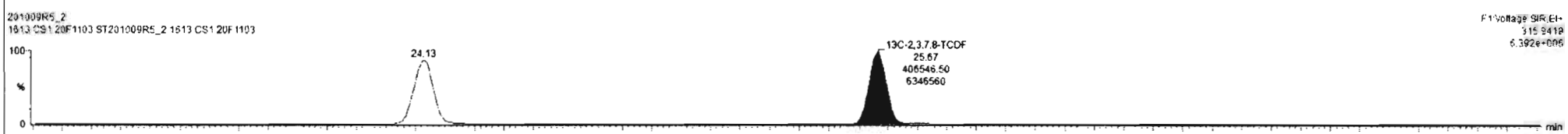
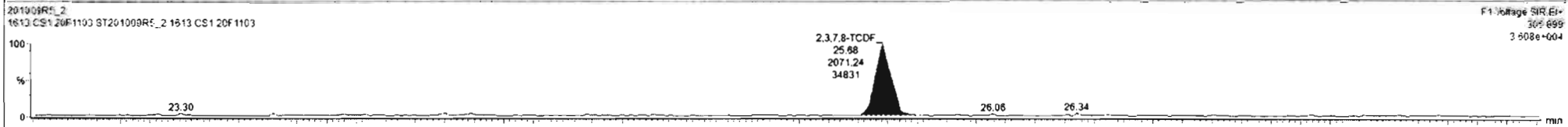
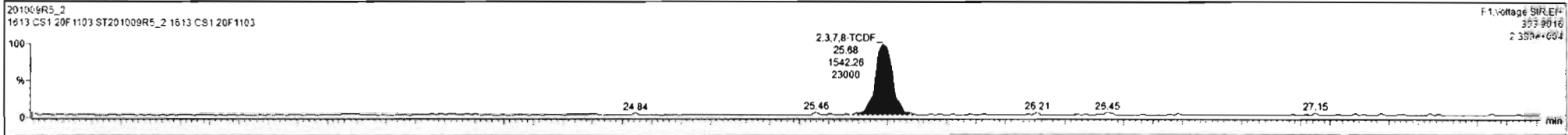
**DPE1**

201009R5\_2



201009R5\_2 - ST201009R5\_2 1613 CS1 20F1103 - 1613 CS1 20F1103

#	Name	RT	RA	yth	Area	ISArea	Std Conc	%Dev	%RSD	RRF M.	RRF SD
3	1,2,3,4,7,8-HxCDD	34.32	1.197	NO	7.6260e3	3.2777e5	2.500	-11.3	8.13	1.08	0.0678
4	1,2,3,6,7,8-HxCDD	34.42	1.351	NO	7.9983e3	3.8356e5	2.500	-9.1	7.15	0.958	0.0692
5	1,2,3,7,8,9-HxCDD	34.70	1.290	NO	8.0454e3	3.5377e5	2.500	-6.7	8.29	0.996	0.0826
6	1,2,3,6,7,8-HpCDD	38.16	1.011	NO	5.9862e3	2.7934e5	2.500	-9.4	7.78	0.946	0.0736
7	OCDD	41.08	0.891	NO	9.4689e3	4.5457e5	5.900	-9.9	7.80	0.925	0.0721
8	2,3,7,8-TCDF	25.88	0.745	NO	3.6135e3	8.3194e5	8.900	-10.8	9.77	0.870	0.0849
9	1,2,3,7,8-PeCDF	29.75	1.572	NO	1.4838e4	8.5513e5	2.500	-9.5	9.52	0.987	0.0940
10	2,3,4,7,8-PeCDF	30.80	1.667	NO	1.6409e4	6.5848e5	2.500	-9.1	7.94	1.10	0.0871
11	1,2,3,4,7,8-HxCDF	33.39	1.174	NO	1.0230e4	4.6512e5	2.500	-11.7	9.65	0.996	0.0961
12	1,2,3,6,7,8-HxCDF	33.54	1.078	NO	1.0516e4	4.6945e5	2.500	-13.6	9.53	1.04	0.0989
13	2,3,4,6,7,8-HxCDF	34.20	1.309	NO	1.0718e4	4.5794e5	2.500	-9.1	8.56	1.04	0.0890
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	8.6054e3	3.7596e5	2.500	-8.8	9.34	1.01	0.0940
15	1,2,3,4,6,7,8-HpCDF	36.79	1.002	NO	8.9073e3	3.3790e5	2.500	-10.2	8.04	1.06	0.0954
16	1,2,3,4,7,8,9-HpCDF	38.78	1.033	NO	7.0218e3	2.6878e5	2.500	-11.4	9.32	1.18	0.110



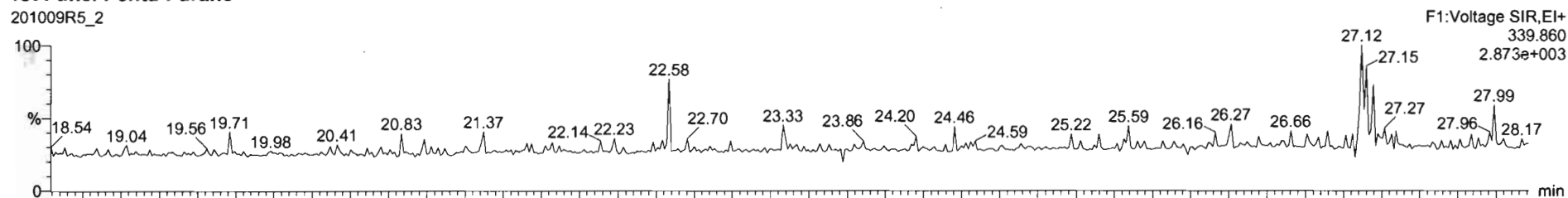
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

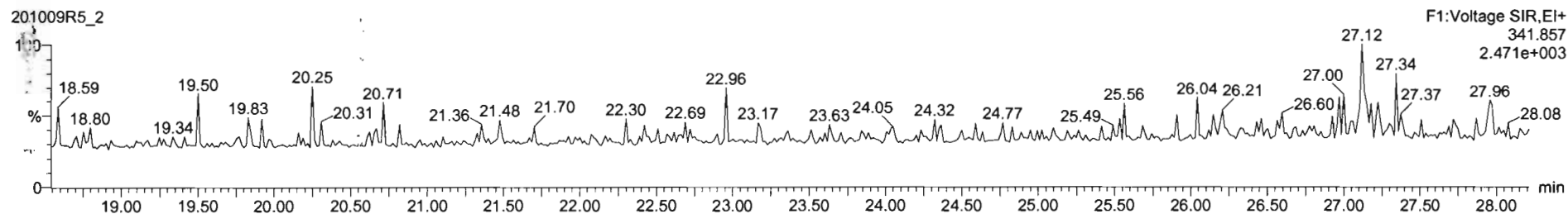
Name: 201009R5\_2, Date: 09-Oct-2020, Time: 17:06:24, ID: ST201009R5\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

1st Func. Penta-Furans

201009R5\_2

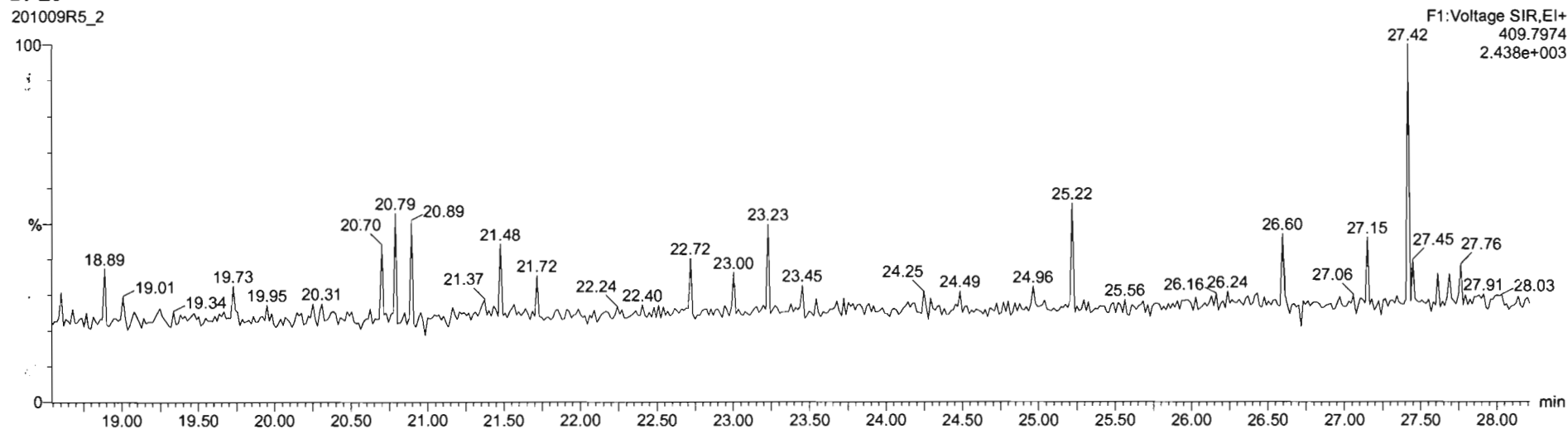


201009R5\_2



DPE6

201009R5\_2



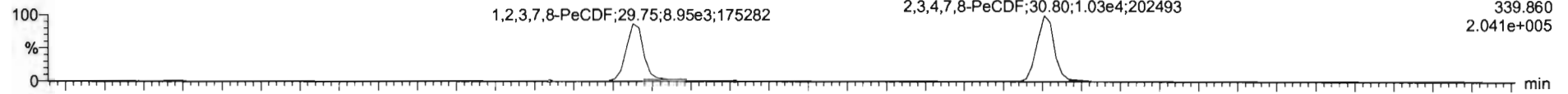
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_2, Date: 09-Oct-2020, Time: 17:06:24, ID: ST201009R5\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

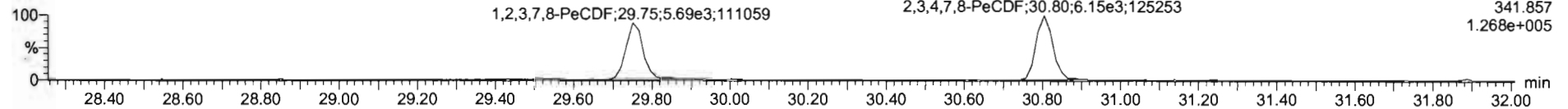
**1,2,3,7,8-PeCDF**

201009R5\_2



F2:Voltage SIR,EI+  
339.860  
2.041e+005

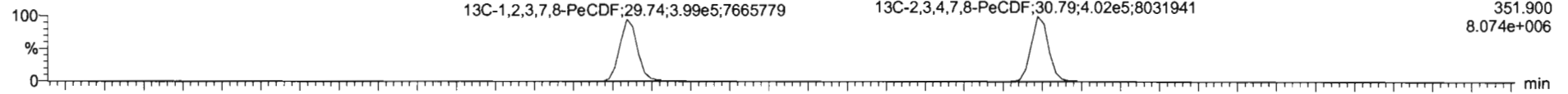
201009R5\_2



F2:Voltage SIR,EI+  
341.857  
1.268e+005

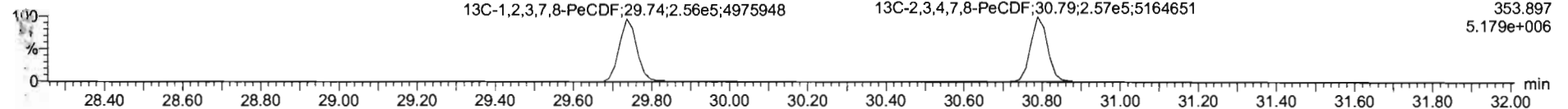
**13C-1,2,3,7,8-PeCDF**

201009R5\_2



F2:Voltage SIR,EI+  
351.900  
8.074e+006

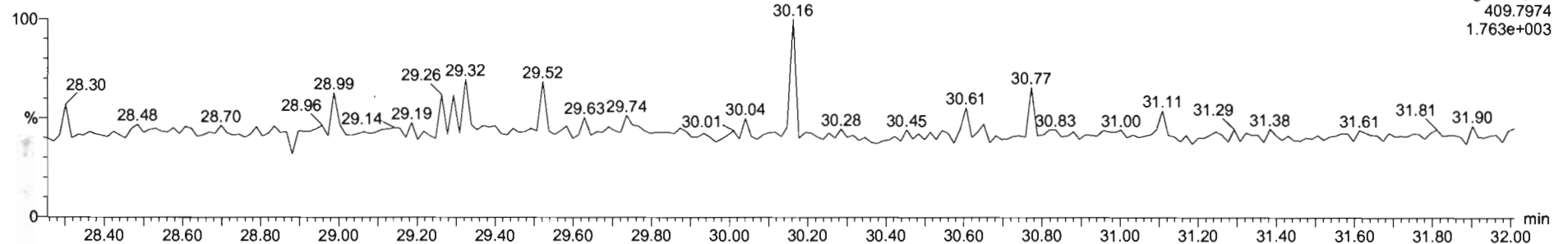
201009R5\_2



F2:Voltage SIR,EI+  
353.897  
5.179e+006

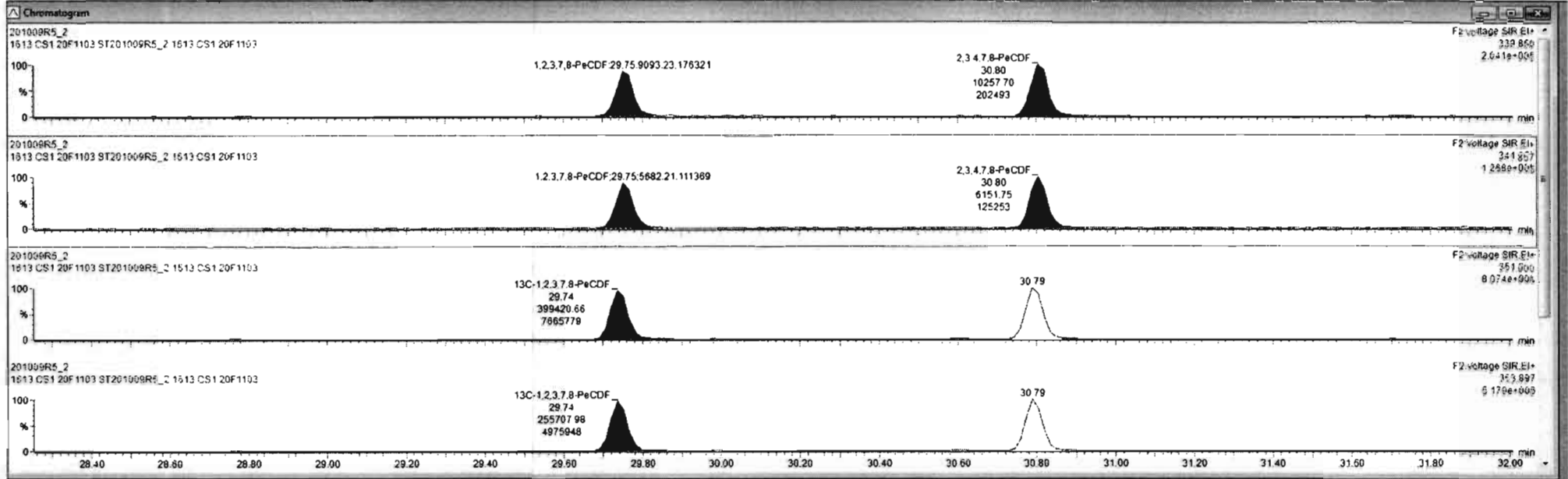
**DPE2**

201009R5\_2



F2:Voltage SIR,EI+  
409.7974  
1.763e+003

#	Name	RT	RA	ym	Area	S Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
45	Total Penta-Furans				0.0000e0	2.500		9.34	0.989	0.0924	
46	Total Hexa-Furans				0.0000e0	2.500		8.55	1.04	0.0885	
47	Total Hepta-Furans				0.0000e0	2.500		8.91	1.06	0.0941	
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	DPE1					1.000					
54	DPE2					1.000					
55	DPE3					1.000					
56	DPE4					1.000					
57	DPE5					1.000					
58	DPE6					1.000					

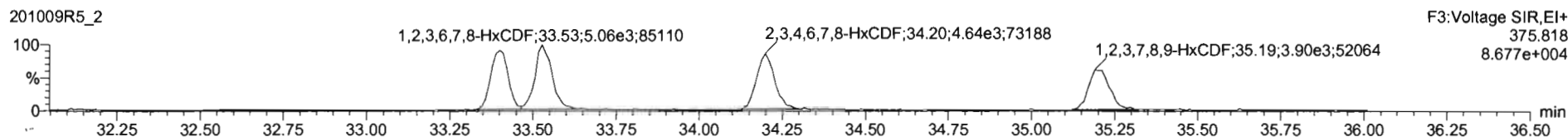
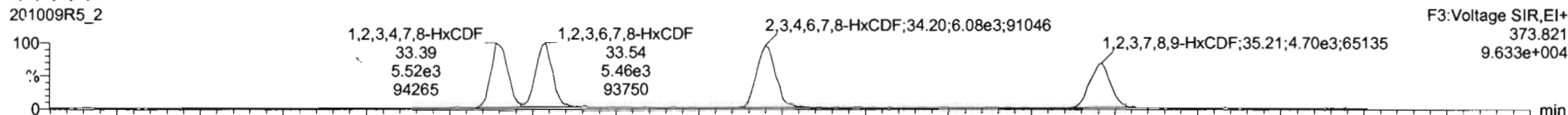


Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

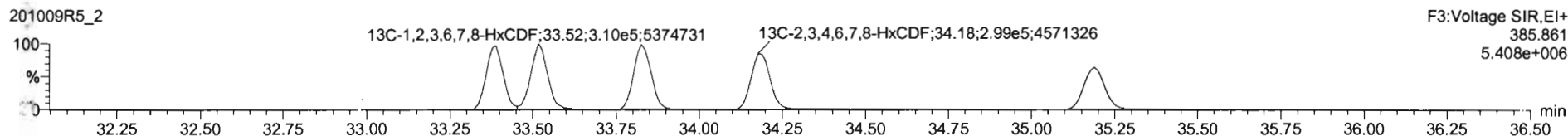
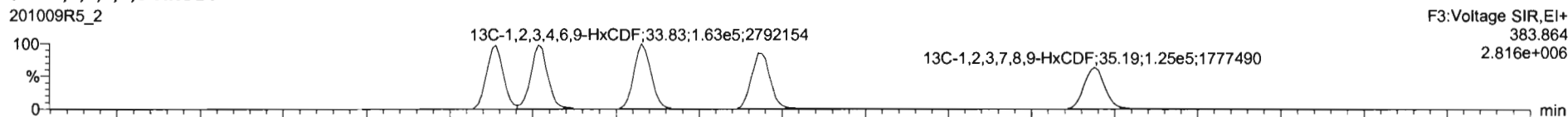
Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_2, Date: 09-Oct-2020, Time: 17:06:24, ID: ST201009R5\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

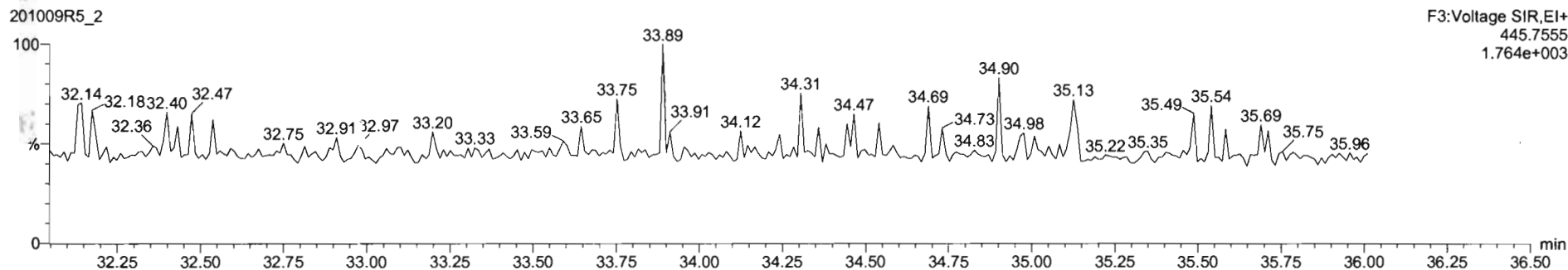
**1,2,3,4,7,8-HxCDF**



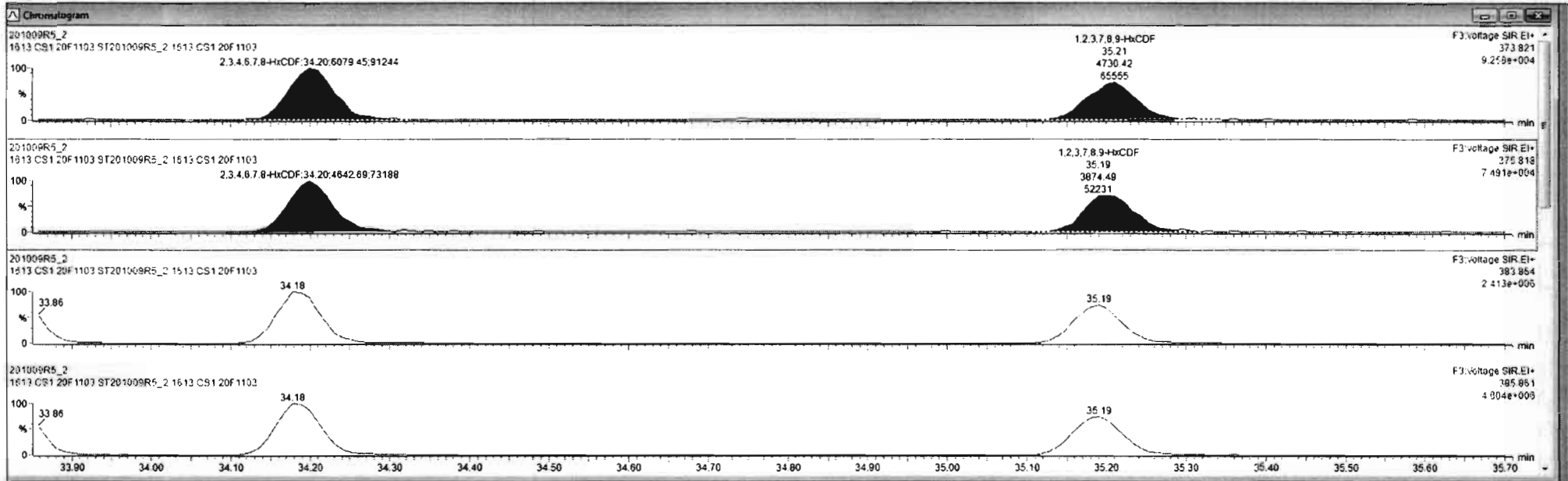
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



#	P. Name	RT	RA	ym	Area	S Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
45	45 Total Penta-Furans					0.0000e0	2.500	9.34	0.989	0.0924	
46	46 Total Hexa-Furans					0.0000e0	2.500	8.55	1.04	0.0889	
47	47 Total Hepta-Furans					0.0000e0	2.500	8.91	1.06	0.0941	
48	48 PFK1						1.000				
49	49 PFK2						1.000				
50	50 PFK3						1.000				
51	51 PFK4						1.000				
52	52 PFK5						1.000				
53	53 DPE1						1.000				
54	54 DPE2						1.000				
55	55 DPE3						1.000				
56	56 DPE4						1.000				
57	57 DPE5						1.000				
58	58 DPE6						1.000				

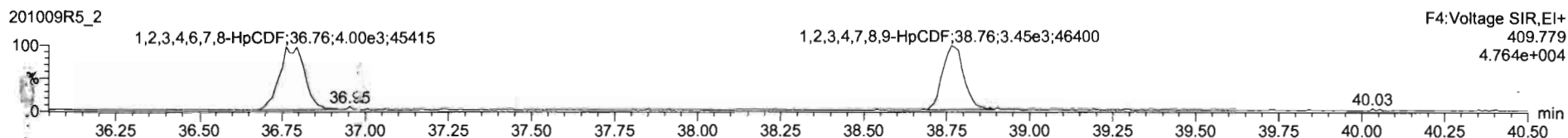
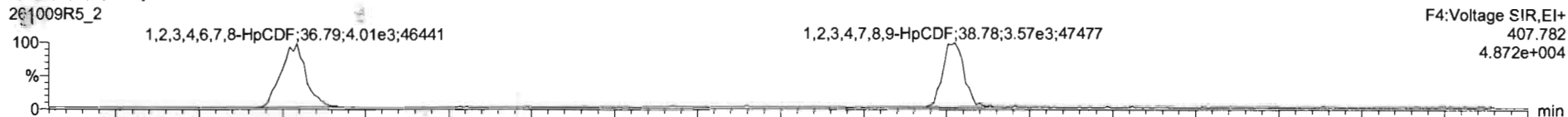


Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

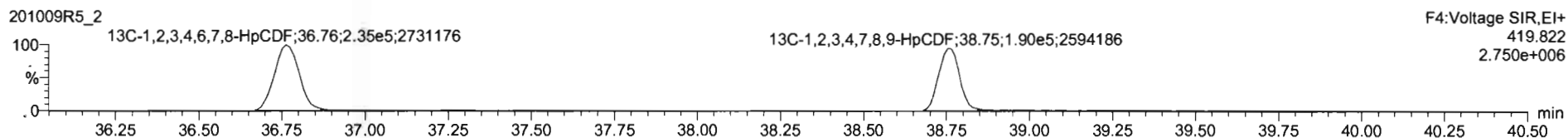
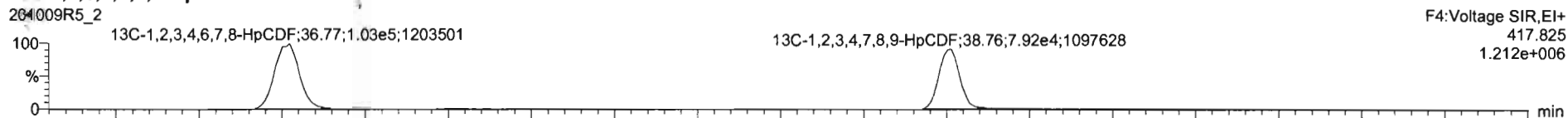
Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_2, Date: 09-Oct-2020, Time: 17:06:24, ID: ST201009R5\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

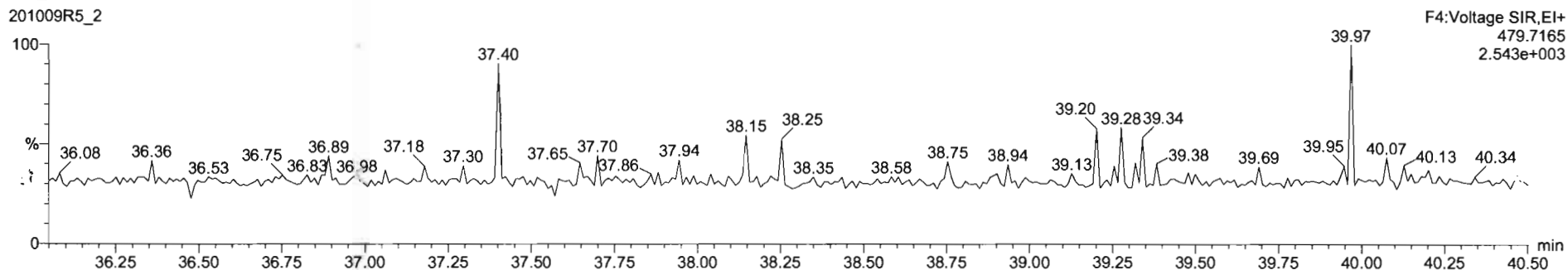
**1,2,3,4,6,7,8-HpCDF**



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

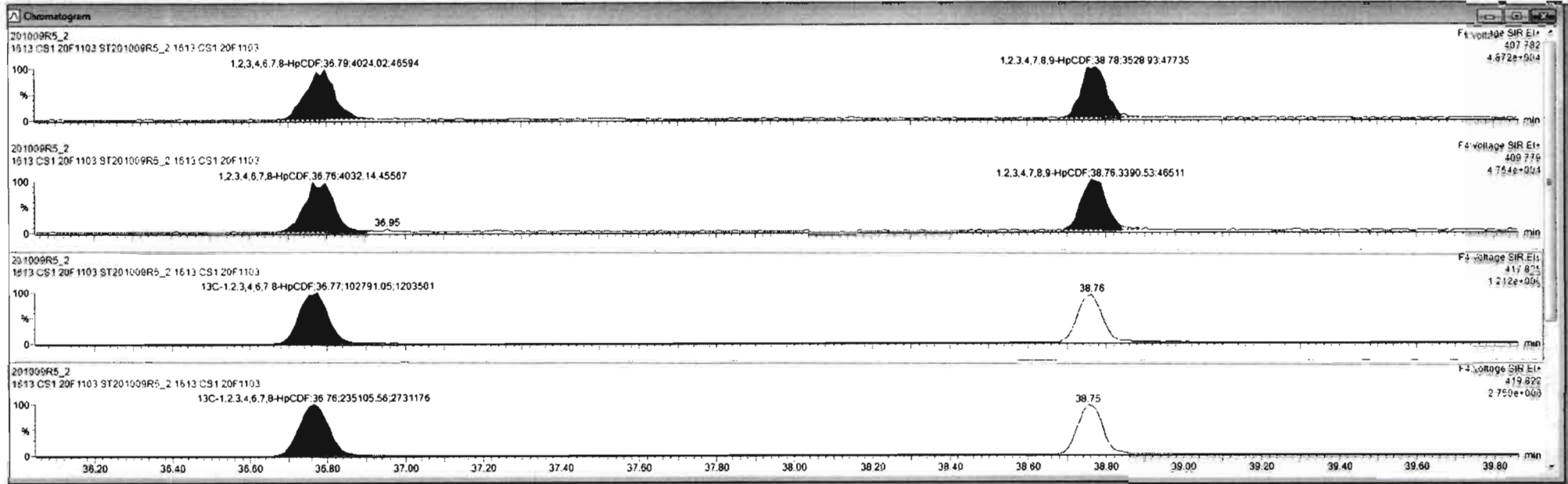


**DPE4**





#	Name	RT	RA	ym	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M...	RRF SD
45	Total Penta-Furans				0.0000e0	2.500		9.34	0.989	0.0924	
46	Total Hexa-Furans				0.0000e0	2.500		8.55	1.04	0.0889	
47	Total Hepta-Furans				0.0000e0	2.500		8.91	1.06	0.0941	
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	DPE1					1.000					
54	DPE2					1.000					
55	DPE3					1.000					
56	DPE4					1.000					
57	DPE5					1.000					
58	DPE6					1.000					



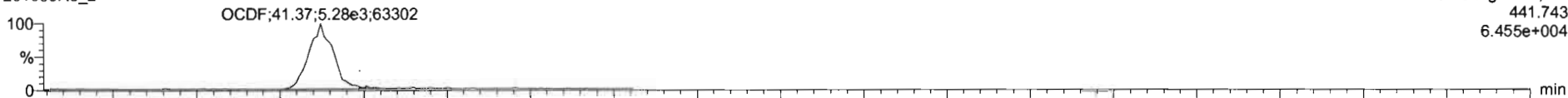
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

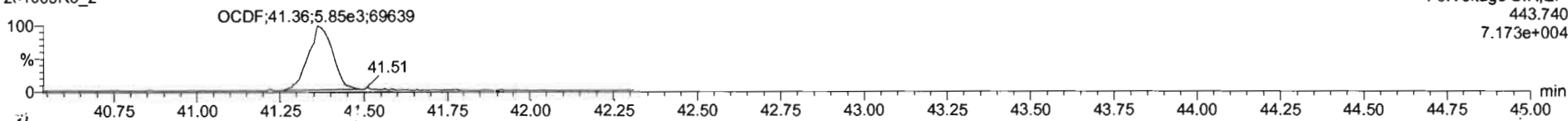
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**OCDF**

201009R5\_2

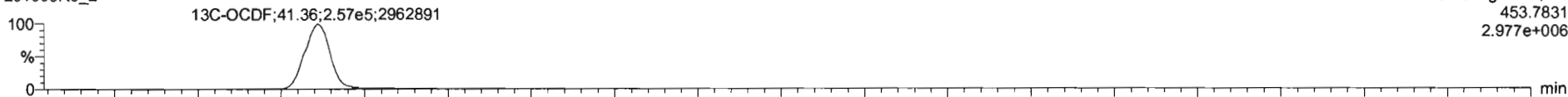


201009R5\_2

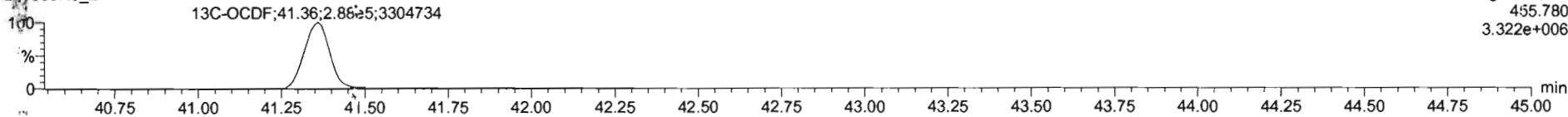


**13C-OCDF**

201009R5\_2

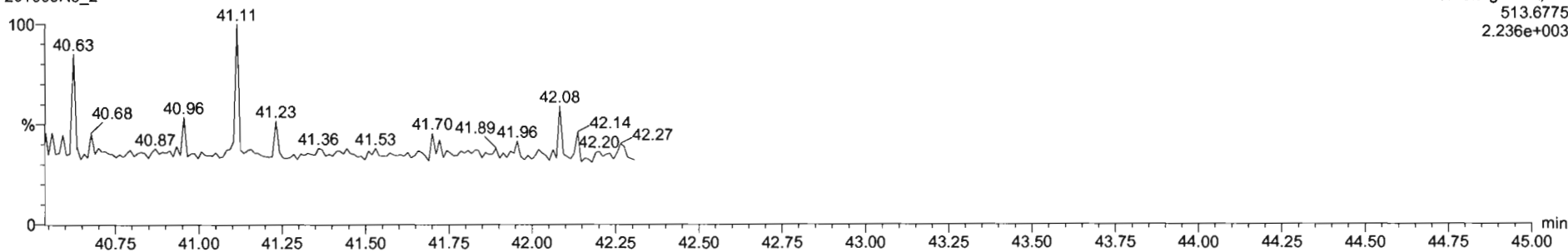


201009R5\_2



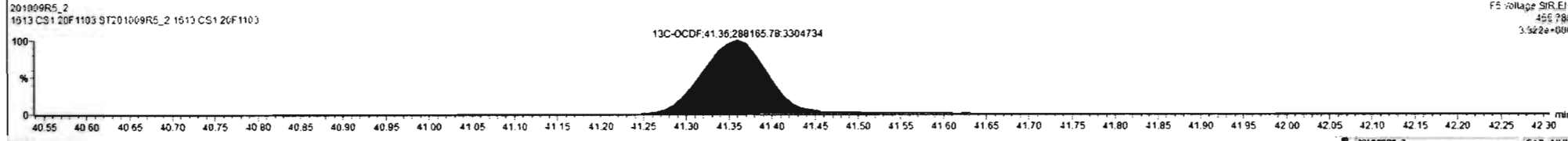
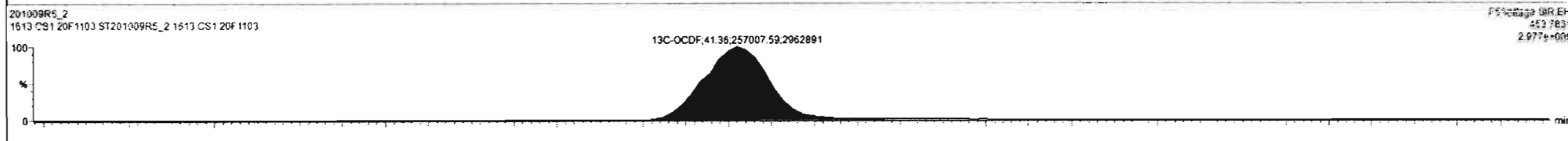
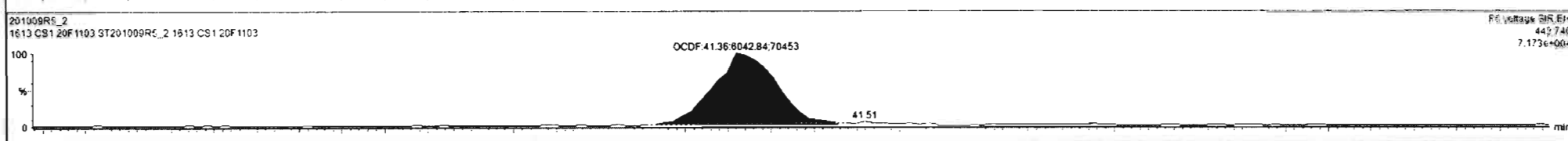
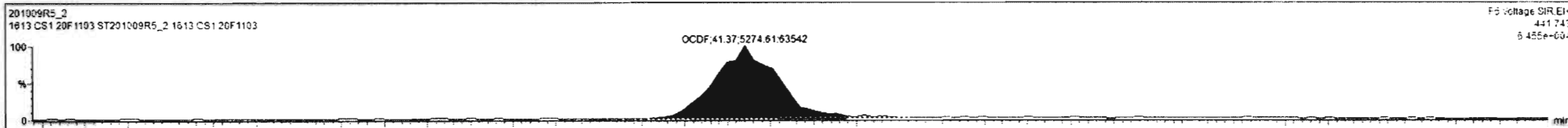
**DPE5**

201009R5\_2



201009R5\_2 - ST201009R5\_2 1613 CS1 20F1103 - 1613 CS1 20F1103

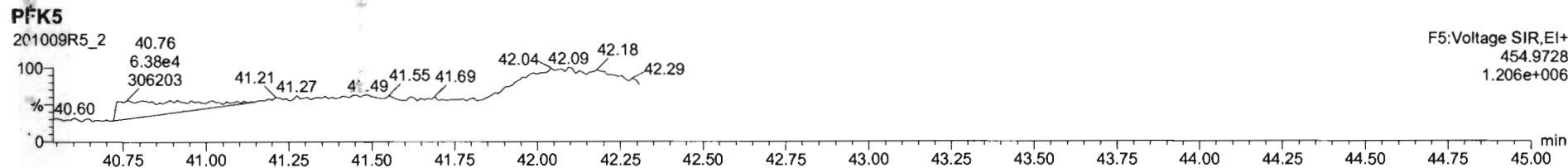
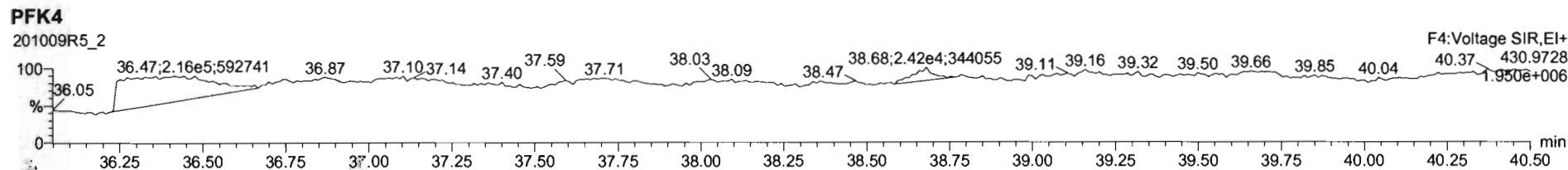
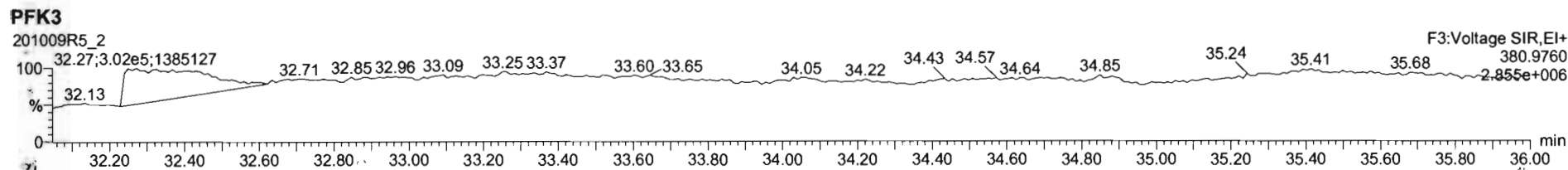
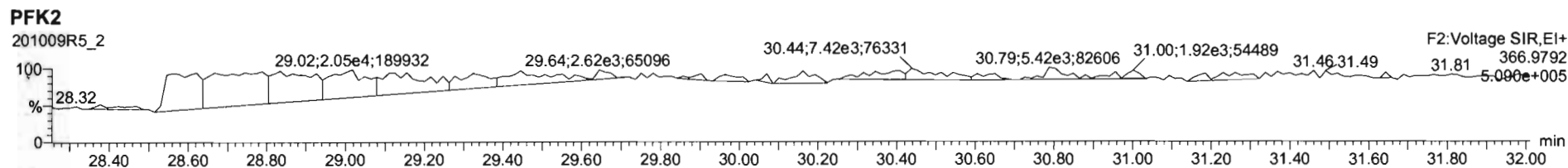
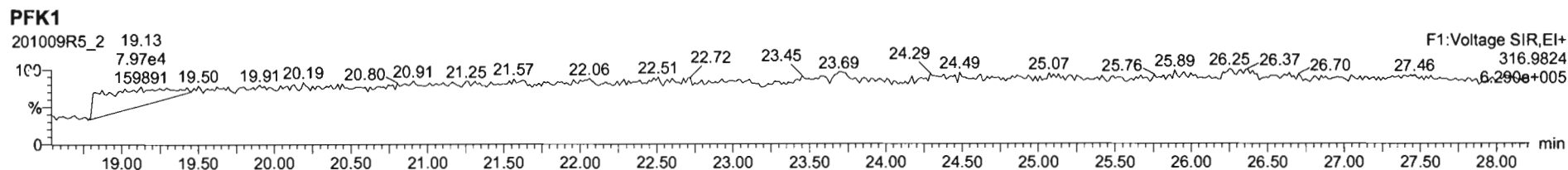
RT	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
15	1,2,3,4,6,7,8-HpCDF	36.79	0.998	NO	8.0562e3	3.3790e5	2.500	-9.7	8.91	1.06	0.0941
16	1,2,3,4,7,8-HpCDF	38.78	1.041	NO	6.9195e3	2.6878e5	2.500	-12.5	9.86	1.18	0.114
17	OCDF	41.37	0.873	NO	1.1317e4	5.4517e5	5.000	-10.4	8.18	0.927	0.0758
18	13C-2,3,7,8-TCDD	26.34	0.788	NO	6.4955e5	5.7262e5	100.000	-0.5	2.40	1.14	0.0274
19	13C-1,2,3,7,8-PeCDD	39.99	0.624	NO	4.3404e5	5.7262e5	100.000	-4.6	10.5	0.794	0.0835
20	13C-1,2,3,4,7,8-HxCDD	34.29	1.293	NO	3.2737e5	4.8234e5	100.000	-2.8	8.09	0.698	0.0565
21	13C-1,2,3,6,7,8-HxCDD	34.41	1.270	NO	3.6258e5	4.8234e5	100.000	-3.1	7.82	0.778	0.0609
22	13C-1,2,3,7,8,9-HxCDD	34.68	1.253	NO	3.5377e5	4.8234e5	100.000	-2.3	7.74	0.751	0.0581
23	13C-1,2,3,4,6,7,8-HpCDD	38.15	1.052	NO	2.7934e5	4.8234e5	100.000	-3.4	9.32	0.599	0.0568
24	13C-OCDD	41.07	0.904	NO	4.5457e5	4.8234e5	200.000	-6.4	14.0	0.503	0.0705
25	13C-2,3,7,8-TCDF	25.67	0.775	NO	9.3104e5	9.4300e5	100.000	-0.7	1.48	0.994	0.0148
26	13C-1,2,3,7,8-PeCDF	29.74	1.562	NO	6.5513e5	9.4300e5	100.000	-6.5	7.41	0.743	0.0551
27	13C-2,3,4,7,8-PeCDF	30.79	1.567	NO	6.5849e5	9.4300e5	100.000	-3.8	9.92	0.726	0.0721
28	13C-1,2,3,4,7,8-HxCDF	33.39	0.514	NO	4.8512e5	4.8234e5	100.000	-1.5	6.36	0.979	0.0617



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_2, Date: 09-Oct-2020, Time: 17:06:24, ID: ST201009R5\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

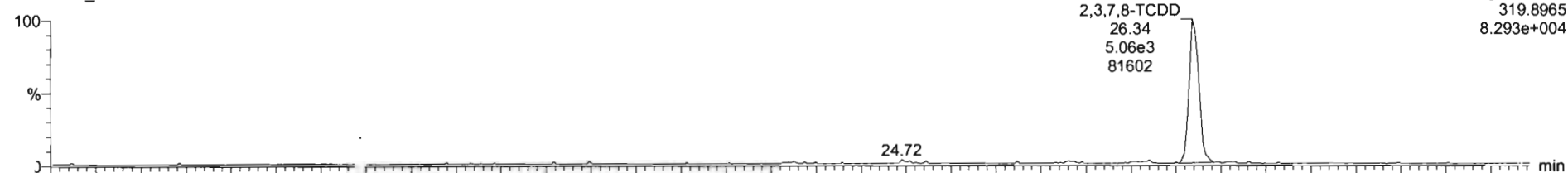
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

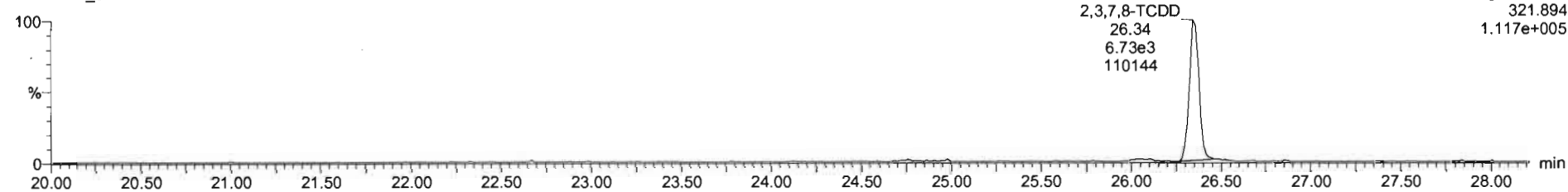
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**2,3,7,8-TCDD**

201009R5\_3

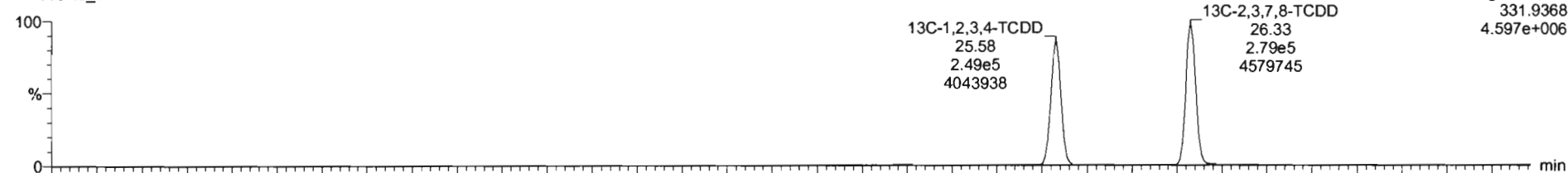


201009R5\_3

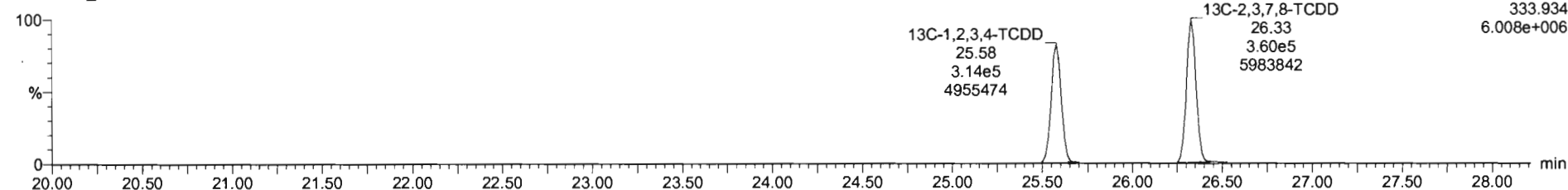


**13C-2,3,7,8-TCDD**

201009R5\_3



201009R5\_3



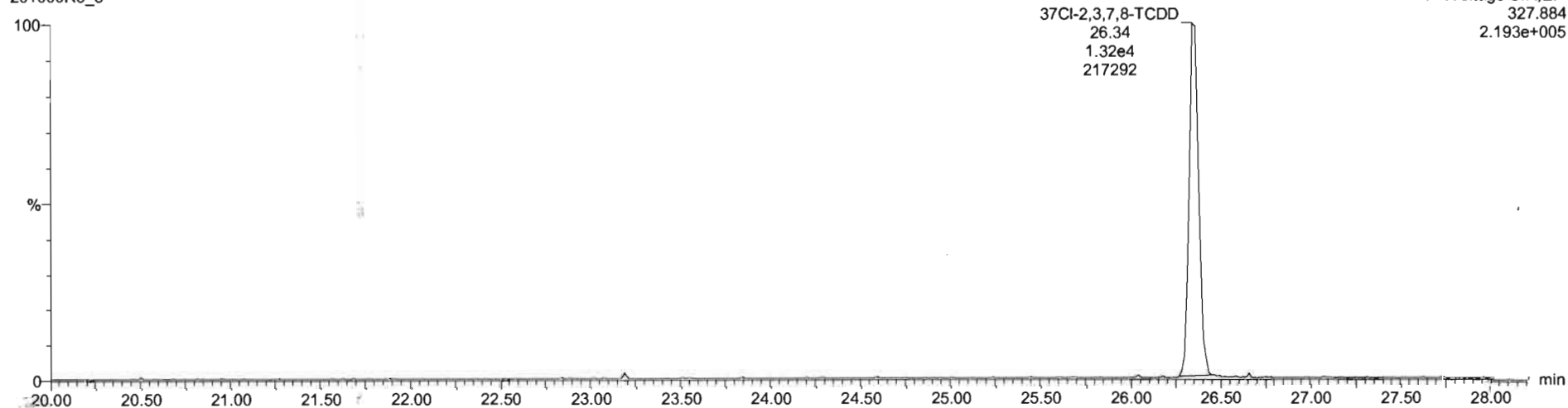
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_3, Date: 09-Oct-2020, Time: 17:49:56, ID: ST201009R5\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

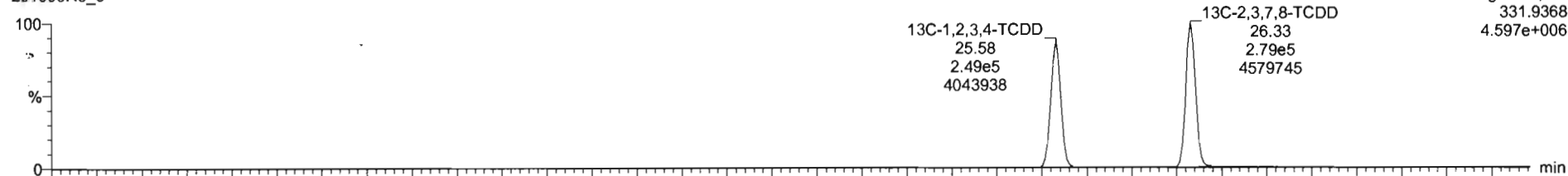
**37Cl-2,3,7,8-TCDD**

201009R5\_3

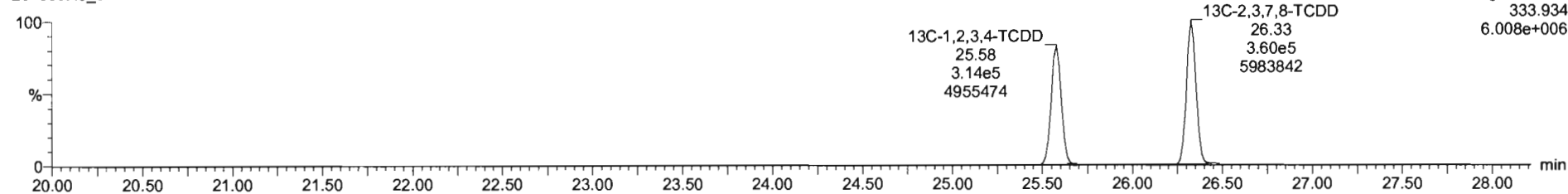


**13C-1,2,3,4-TCDD**

201009R5\_3



201009R5\_3



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

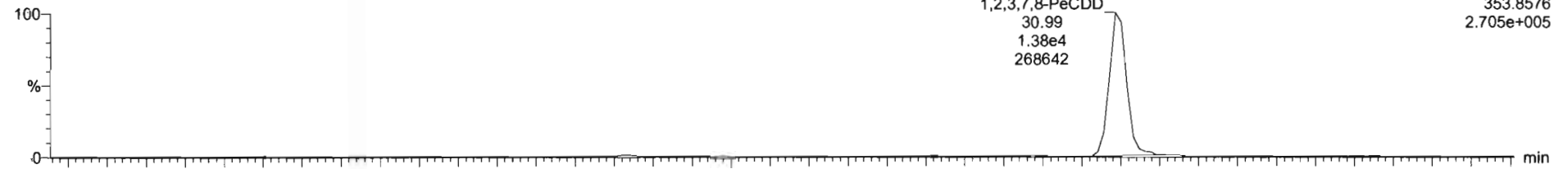
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

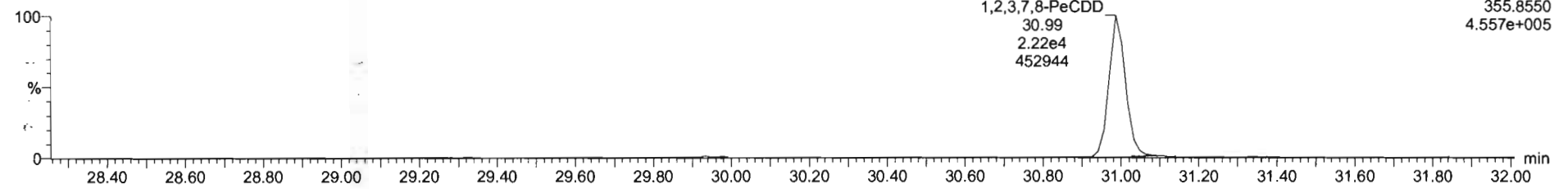
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**1,2,3,7,8-PeCDD**

201009R5\_3

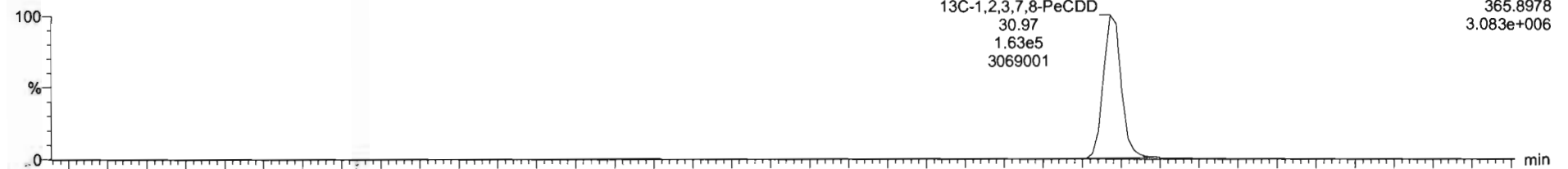


201009R5\_3

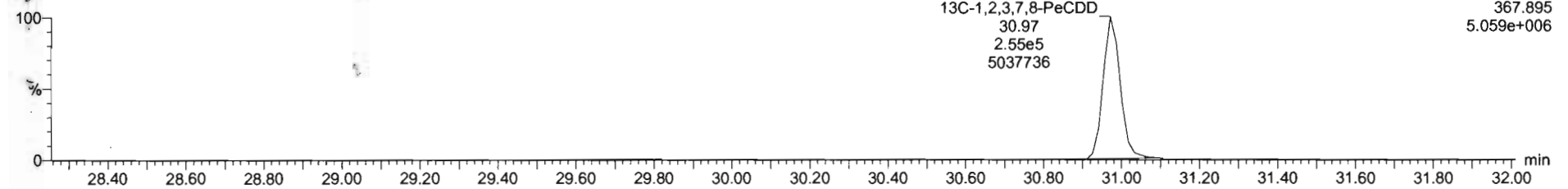


**13C-1,2,3,7,8-PeCDD**

201009R5\_3



201009R5\_3



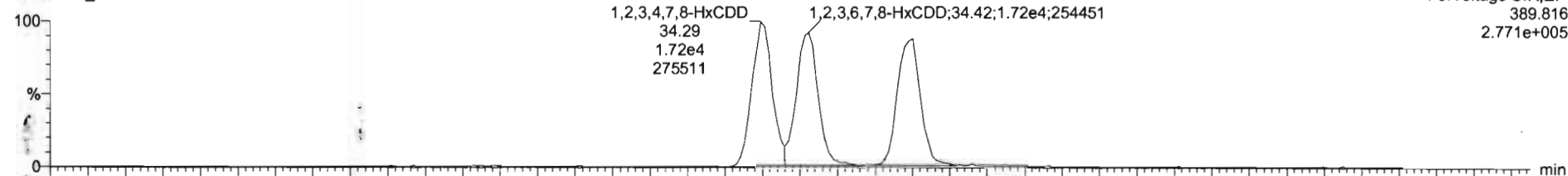
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

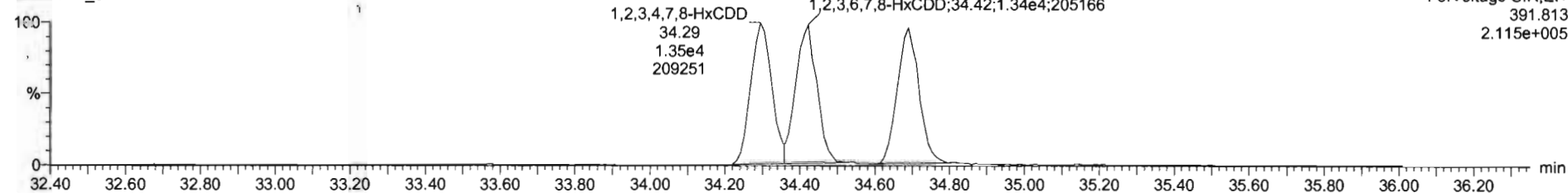
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**1,2,3,4,7,8-HxCDD**

201009R5\_3

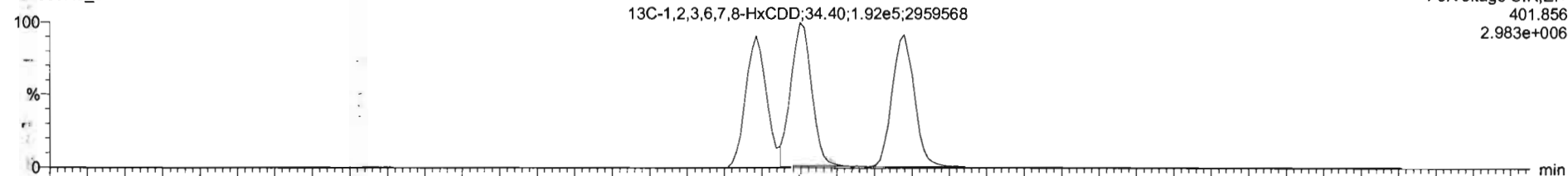


201009R5\_3

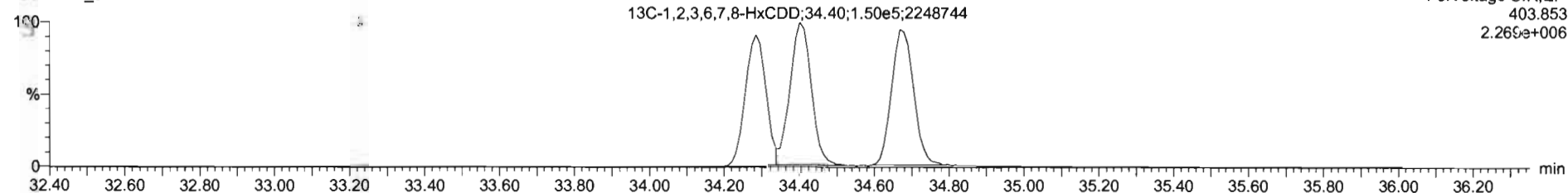


**<sup>13</sup>C-1,2,3,4,7,8-HxCDD**

201009R5\_3



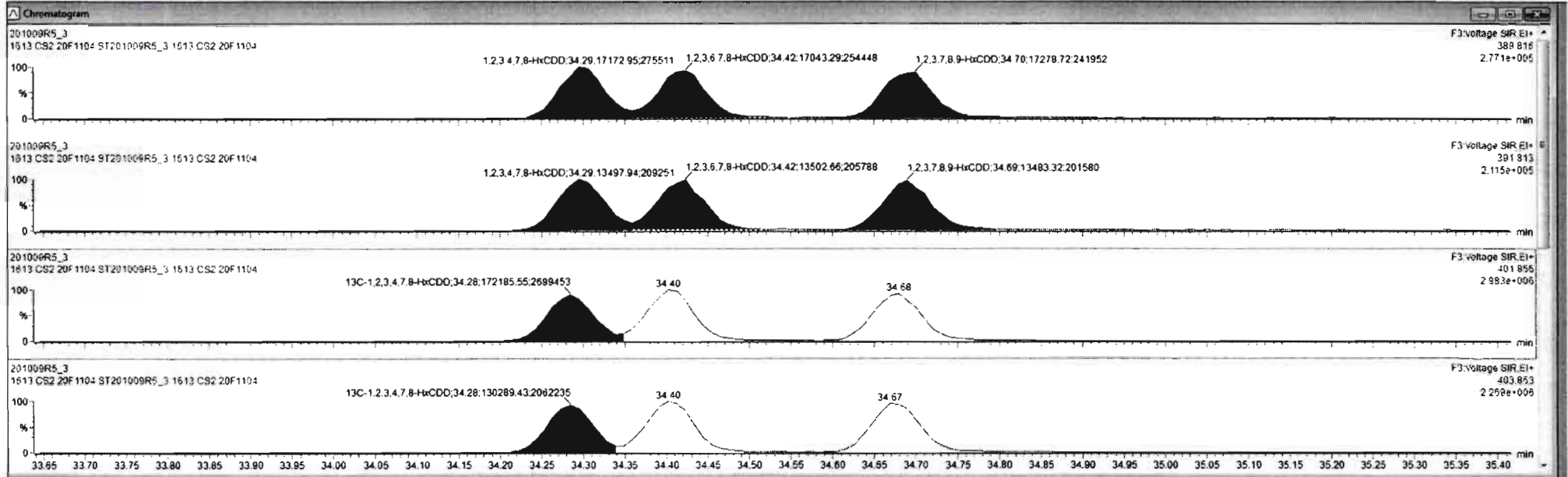
201009R5\_3





201009R5\_3 - ST201009R5\_3 1613 CS2 20F1104 - 1613 CS2 20F1104

#	Name	RT	RA	Yin	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
39	Total Tetra-Dioxins				6.3896e5	2.000		8.35	1.03	0.0857	
40	Total Penta-Dioxins				4.1790e5	10.000		8.48	0.929	0.0788	
41	Total Hexa-Dioxins				8.8000e0	10.000		7.25	0.987	0.0781	
42	Total Hepta-Dioxins				2.5718e5	10.000		7.72	0.946	0.0731	
43	Total Tetra-Furans				9.1905e5	2.000		9.84	0.869	0.0855	
44	1st Func. Penta-Furans				0.0000e0	10.000		9.35	0.989	0.0925	
45	Total Penta-Furans				0.0000e0	10.000		9.35	0.989	0.0925	
46	Total Hexa-Furans				0.0000e0	10.000		8.58	1.04	0.0689	
47	Total Hepta-Furans				0.0000e0	10.000		8.96	1.06	0.0949	
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

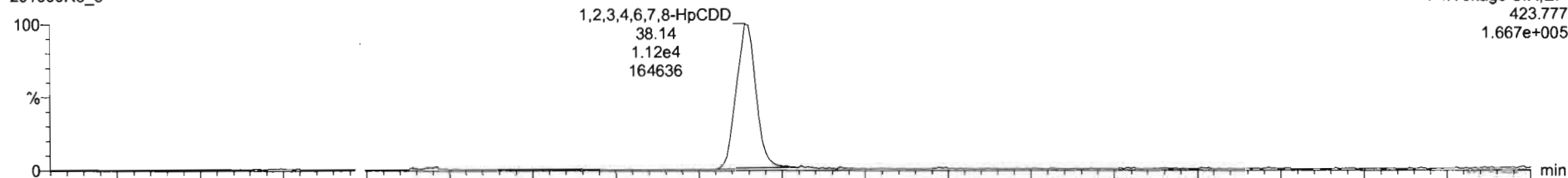
Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time

Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

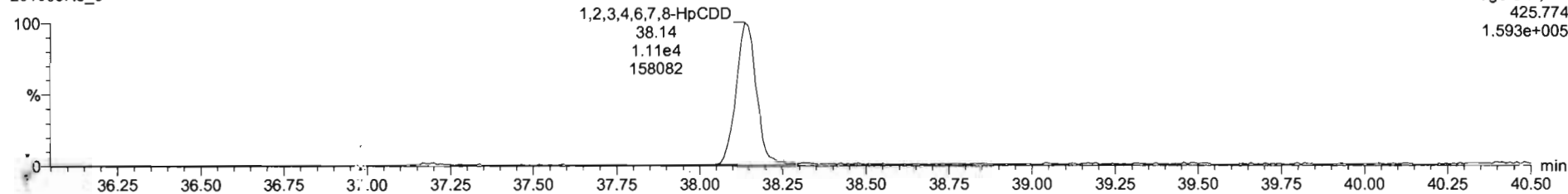
Name: 201009R5\_3, Date: 09-Oct-2020, Time: 17:49:56, ID: ST201009R5\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

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

201009R5\_3

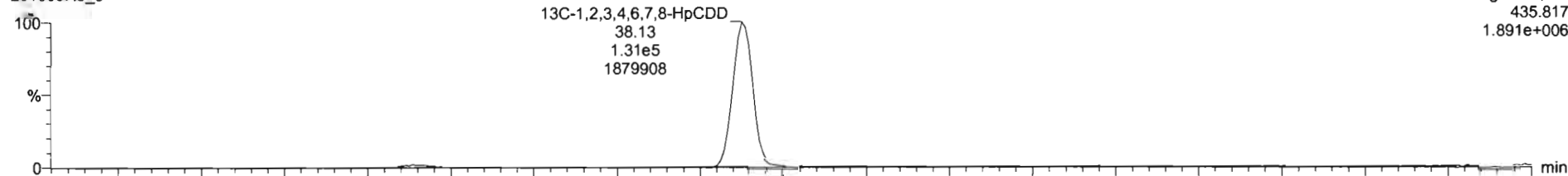


201009R5\_3

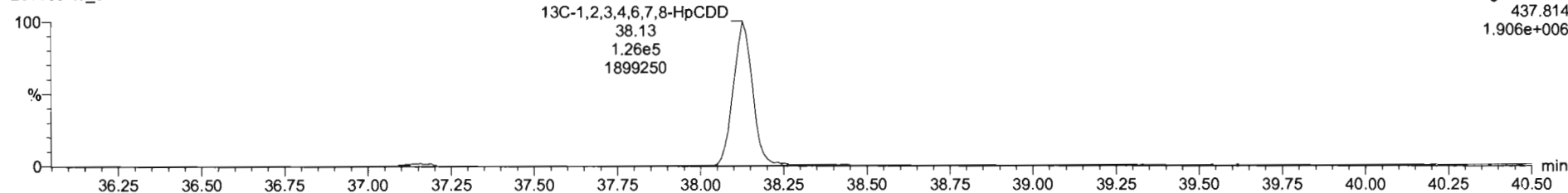


13C-1,2,3,4,6,7,8-HpCDD

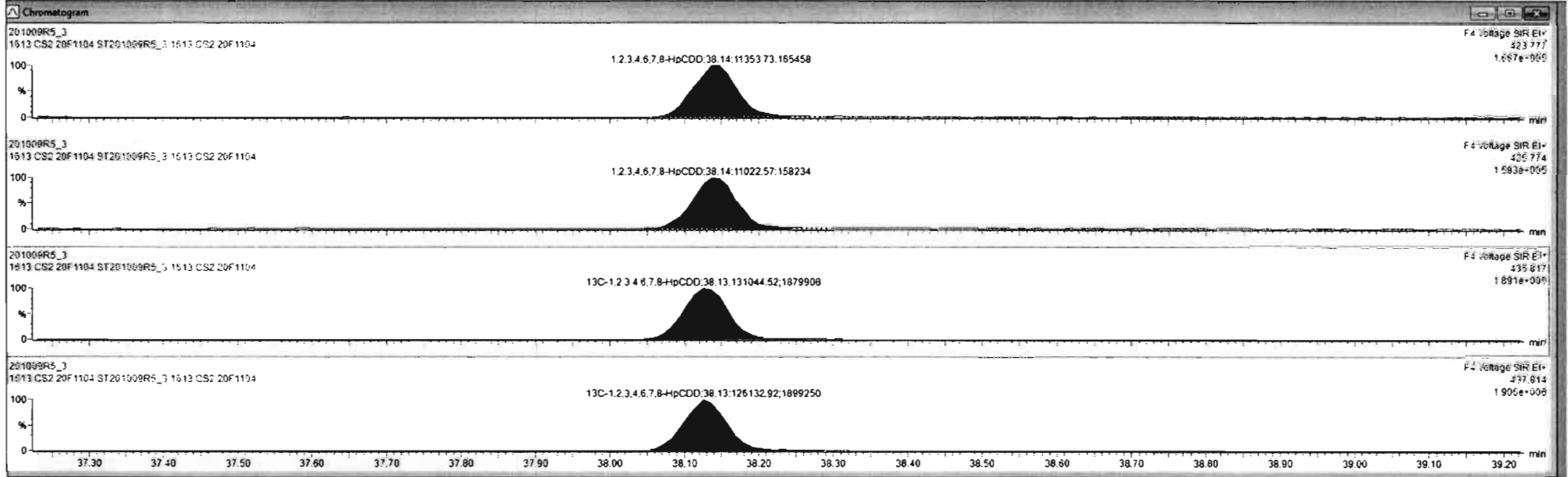
201009R5\_3



201009R5\_3



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RPF SD
39	Total Tetra-Dioxins				6.3895e5		2.000	8.35	1.03		0.0857
40	Total Penta-Dioxins				4.1790e5		10.000	8.48	0.929		0.0788
41	Total Hexa-Dioxins				0.0000e0		10.000	7.25	0.987		0.0761
42	Total Hepta-Dioxins				2.5716e5		10.000	7.72	0.846		0.0731
43	Total Tetra-Furans				9.1909e5		2.000	9.84	0.989		0.0855
44	1st Func. Penta-Furans				0.0000e0		10.000	9.35	0.989		0.0925
45	Total Penta-Furans				0.0000e0		10.000	9.35	0.989		0.0925
46	Total Hexa-Furans				0.0000e0		10.000	8.55	1.04		0.0869
47	Total Hepta-Furans				0.0000e0		10.000	8.99	1.06		0.0949
48	PFK1						1.000				
49	PFK2						1.000				
50	PFK3						1.000				
51	PFK4						1.000				
52	PFK5						1.000				



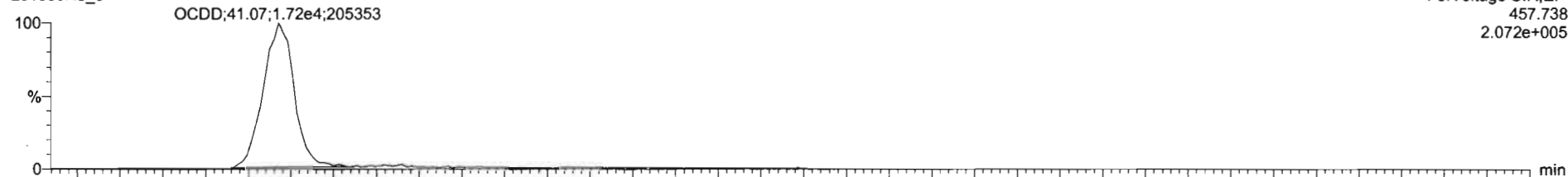
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

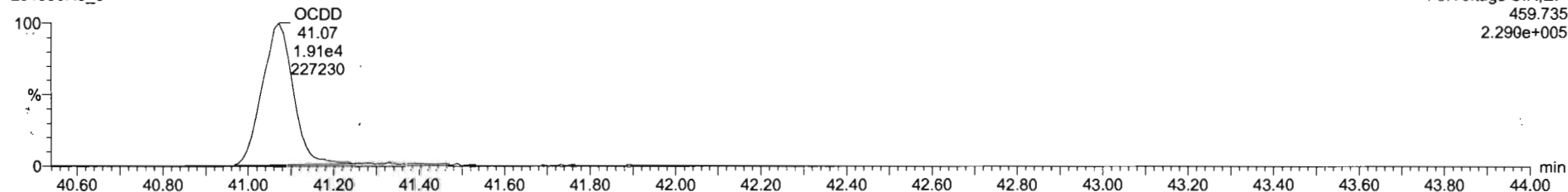
Name: 201009R5\_3, Date: 09-Oct-2020, Time: 17:49:56, ID: ST201009R5\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

OCDD

201009R5\_3



201009R5\_3

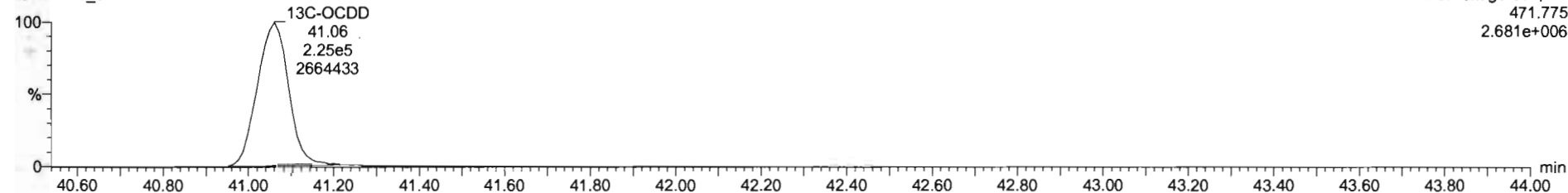


13C-OCDD

201009R5\_3



201009R5\_3



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

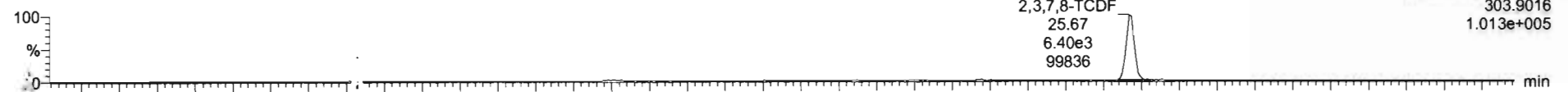
Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time

Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_3, Date: 09-Oct-2020, Time: 17:49:56, ID: ST201009R5\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

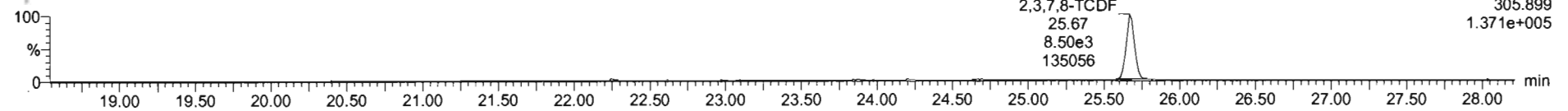
**2,3,7,8-TCDF**

201009R5\_3



F1: Voltage SIR, EI+  
303.9016  
1.013e+005

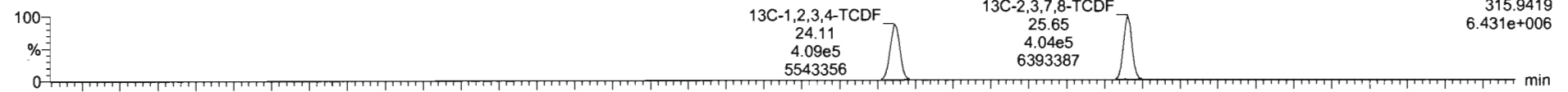
201009R5\_3



F1: Voltage SIR, EI+  
305.899  
1.371e+005

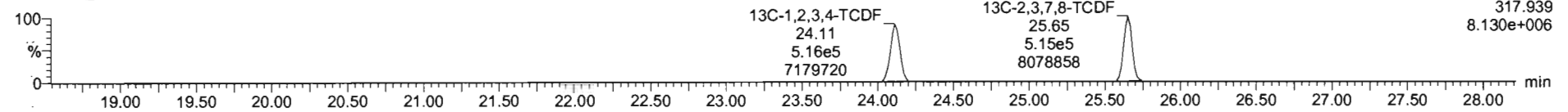
**13C-2,3,7,8-TCDF**

201009R5\_3



F1: Voltage SIR, EI+  
315.9419  
6.431e+006

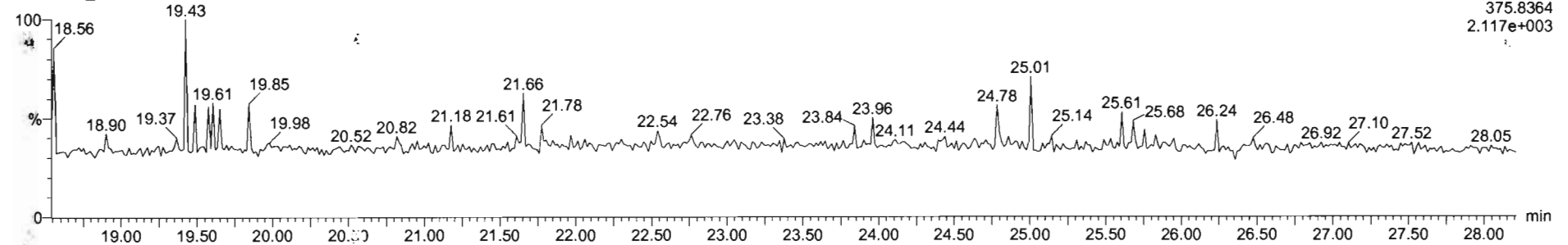
201009R5\_3



F1: Voltage SIR, EI+  
317.939  
8.130e+006

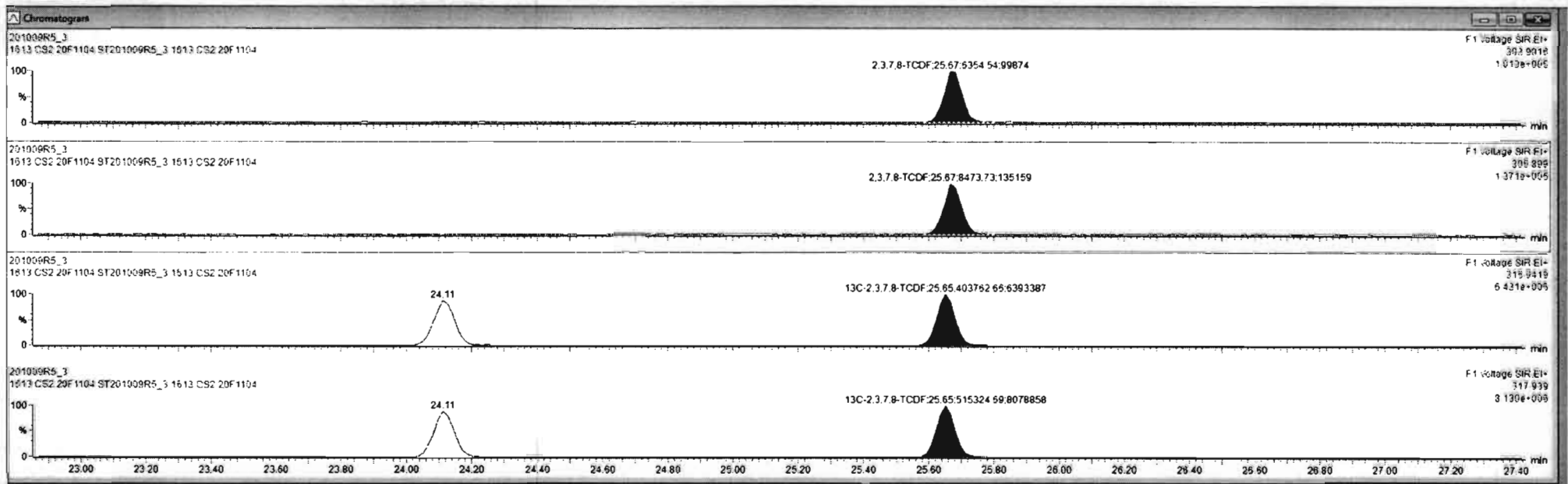
**DPE1**

201009R5\_3



F1: Voltage SIR, EI+  
375.8364  
2.117e+003

#	Name	RT	RA	ym	Area	IS Area	Std. Conc.	%Dev.	%RSD	RRF M.	RRF SD
43	Total Tetra-Furans				9.1909e5	2.000			9.84	0.889	0.0855
44	1st Func. Penta-Furans				0.0000e0	10.000			9.35	0.989	0.0925
45	Total Penta-Furans				0.0000e0	10.000			9.35	0.989	0.0925
46	Total Hexa-Furans				0.0000e0	10.000			8.55	1.04	0.0885
47	Total Hepta-furans				0.0000e0	10.000			8.99	1.06	0.0945
48	PFK1					1.000					
49	PFK2					1.000					
50	PFK3					1.000					
51	PFK4					1.000					
52	PFK5					1.000					
53	DPE1					1.000					
54	DPE2					1.000					
55	DPE3					1.000					
56	DPE4					1.000					



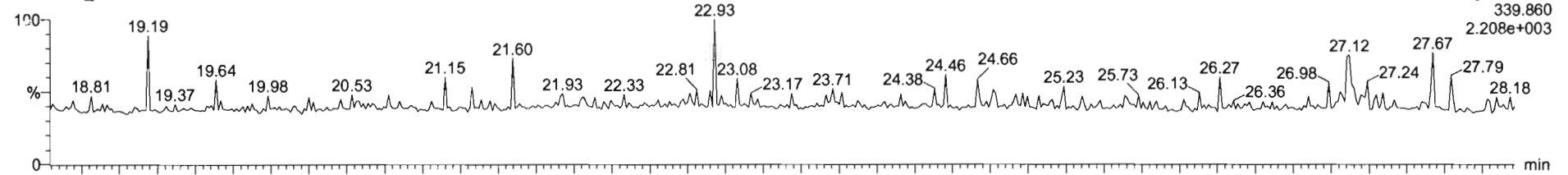
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

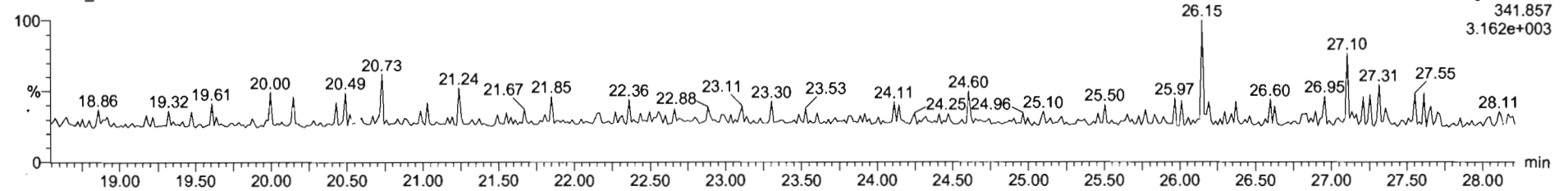
Name: 201009R5\_3, Date: 09-Oct-2020, Time: 17:49:56, ID: ST201009R5\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

1st Func. Penta-Furans

201009R5\_3

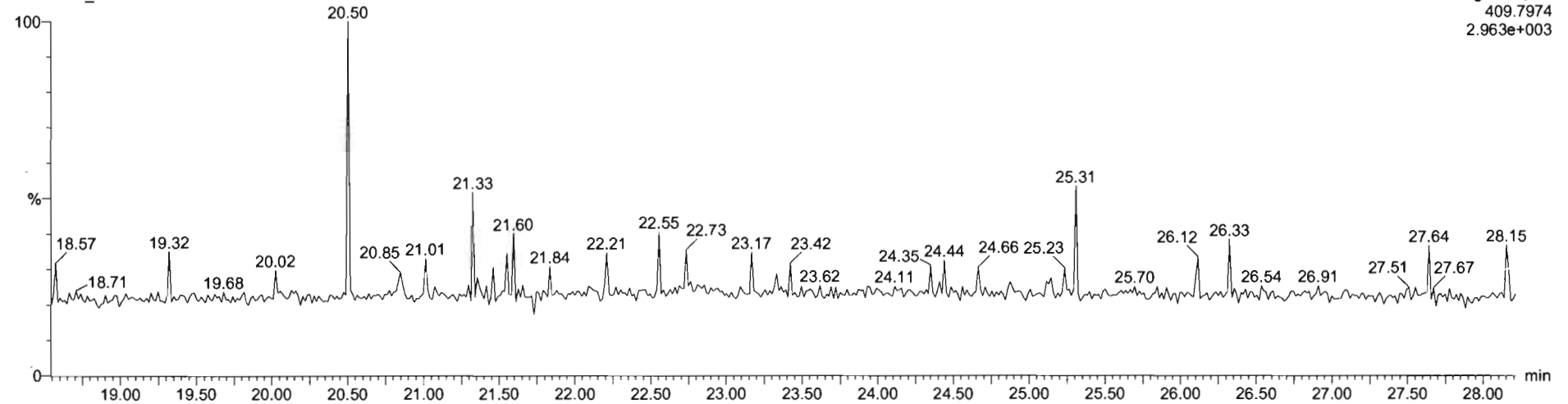


201009R5\_3



DPE6

201009R5\_3



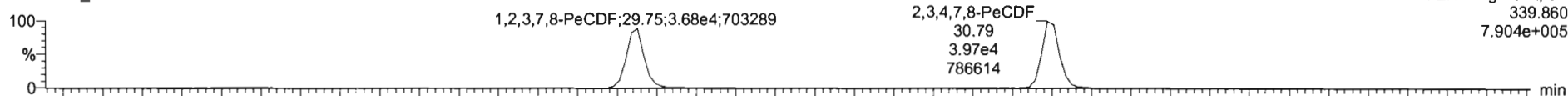
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

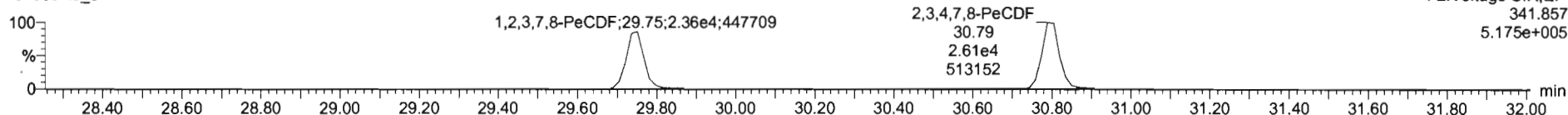
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**1,2,3,7,8-PeCDF**

201009R5\_3

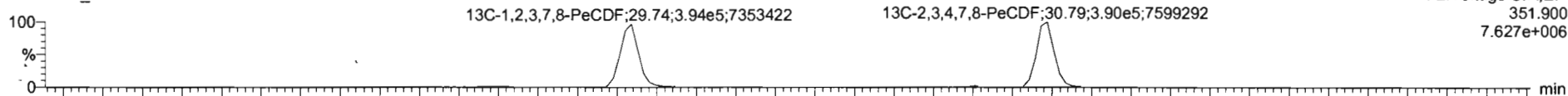


201009R5\_3

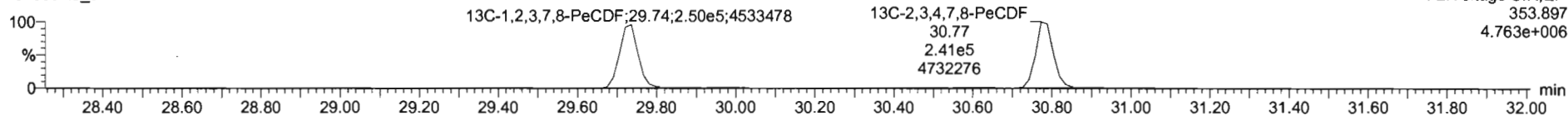


**13C-1,2,3,7,8-PeCDF**

201009R5\_3

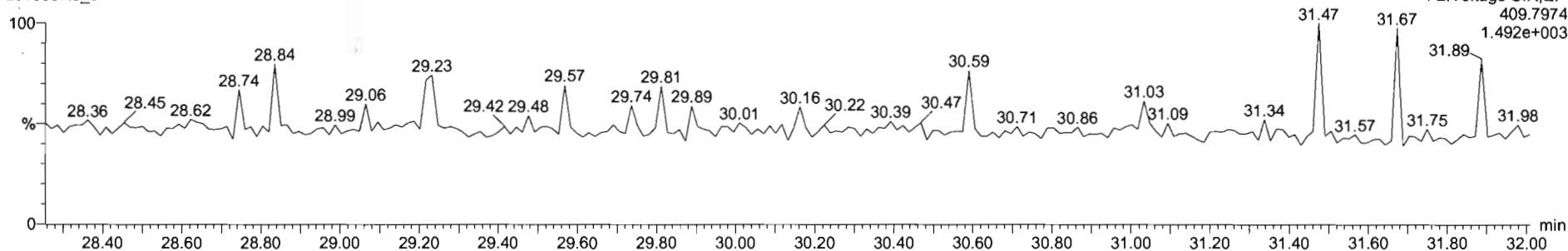


201009R5\_3



**D E2**

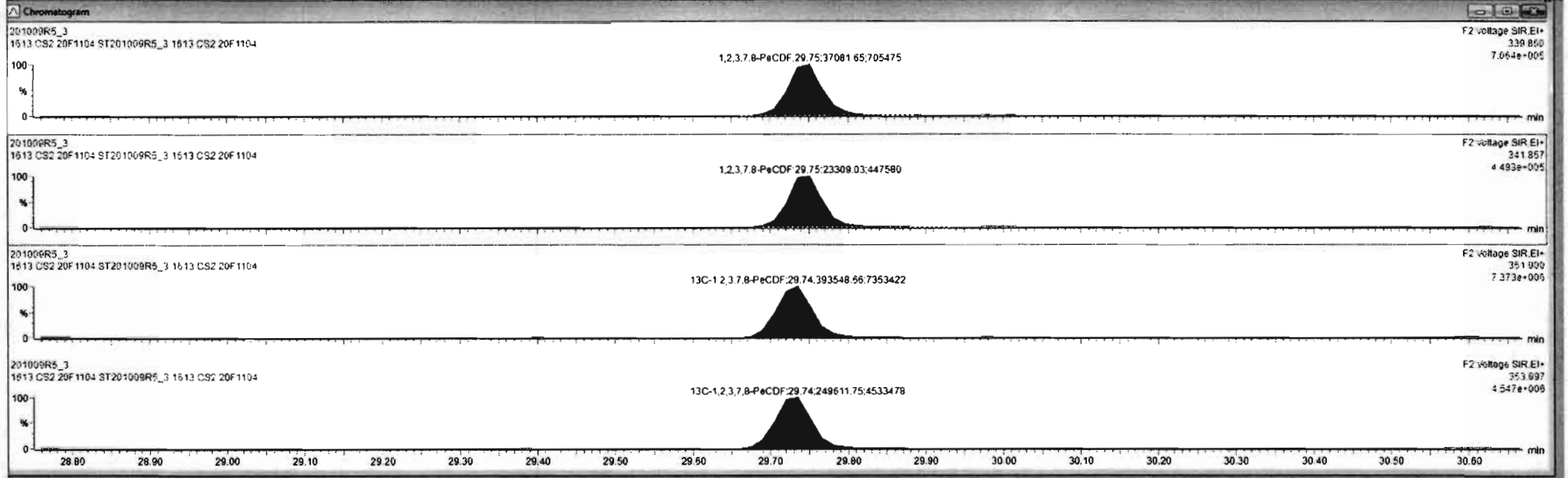
201009R5\_3





201009R5\_3 - ST201009R5\_3 1613 CS2 20F1104 - 1613 CS2 20F1104

#	Name	RT	RA	Yn	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
9	1,2,3,7,8-PeCDF	29.75	1.591	NO	6.0391e4	6.4316e5	10.000	-5.0	9.35	0.989	0.0925
10	2,3,4,7,8-PeCDF	30.79	1.524	NO	6.5756e4	6.3116e5	10.000	-5.0	7.94	1.10	0.0671
11	1,2,3,4,7,8-HxCDF	33.39	1.224	NO	4.0427e4	4.3715e5	10.000	-7.2	9.65	0.996	0.0961
12	1,2,3,6,7,8-HxCDF	33.53	1.254	NO	4.2658e4	4.3908e5	10.000	-6.4	9.53	1.04	0.0989
13	2,3,4,6,7,8-HxCDF	34.19	1.241	NO	4.0601e4	4.2378e5	10.000	-7.8	8.55	1.04	0.0889
14	1,2,3,7,8,9-HxCDF	35.19	1.260	NO	3.2113e4	3.4482e5	10.000	-7.6	9.11	1.01	0.0918
15	1,2,3,4,6,7,8-HpCDF	36.76	1.025	NO	3.0598e4	3.1504e5	10.000	-8.0	8.99	1.06	0.0949
16	1,2,3,4,7,8,9-HpCDF	38.76	1.012	NO	2.5355e4	2.3784e5	10.000	-9.5	8.66	1.18	0.114
17	OCDF	41.36	0.866	NO	4.3309e4	5.1183e5	20.000	-8.9	7.90	0.929	0.0734
18	13C-2,3,7,8-TCDD	26.33	0.774	NO	6.3899e5	5.6323e5	100.000	-0.5	2.40	1.14	0.0274
19	13C-1,2,3,7,8-PeCDD	30.97	0.637	NO	4.1790e5	5.6323e5	100.000	-6.6	10.5	0.794	0.0835
20	13C-1,2,3,4,7,8-HxCDD	34.28	1.322	NO	3.0247e5	4.5374e5	100.000	-4.5	8.09	0.698	0.0565
21	13C-1,2,3,6,7,8-HxCDD	34.40	1.260	NO	3.4167e5	4.5374e5	100.000	-3.2	7.82	0.778	0.0609
22	13C-1,2,3,7,8,9-HxCDD	34.68	1.275	NO	3.2983e5	4.5374e5	100.000	-3.2	7.74	0.751	0.0581



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

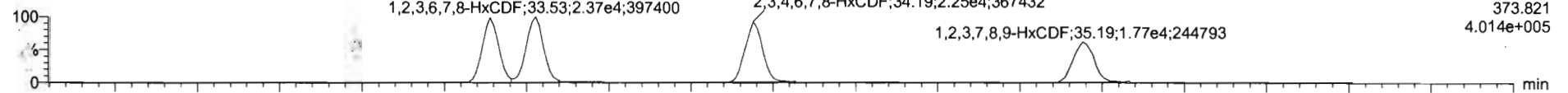
Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time

Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

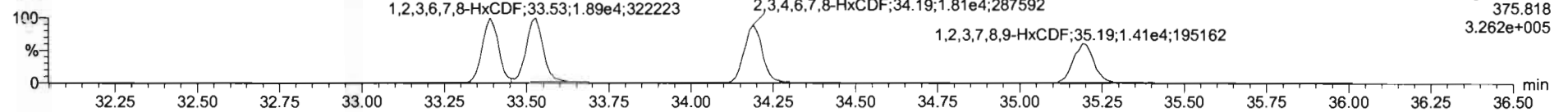
Name: 201009R5\_3, Date: 09-Oct-2020, Time: 17:49:56, ID: ST201009R5\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

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

201009R5\_3

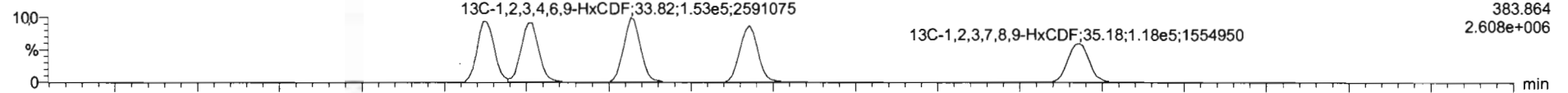


201009R5\_3

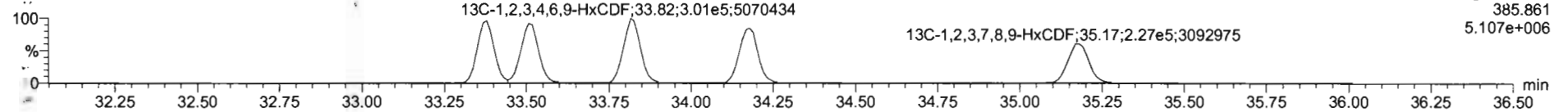


**13C-1,2,3,4,7,8-HxCDF**

201009R5\_3

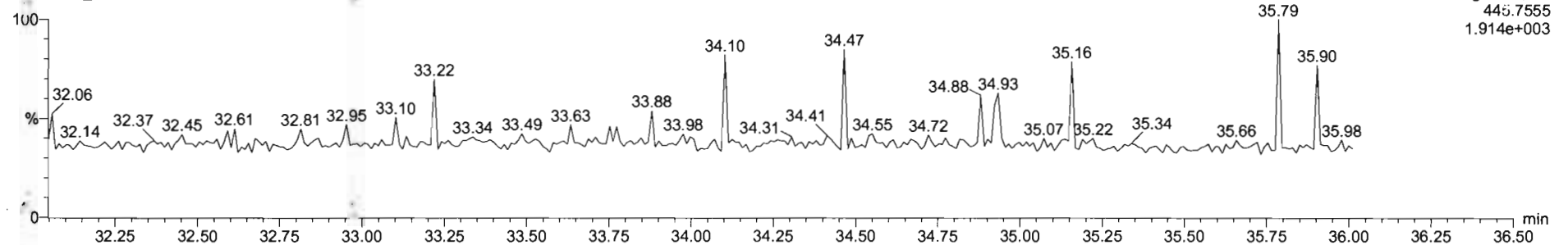


201009R5\_3

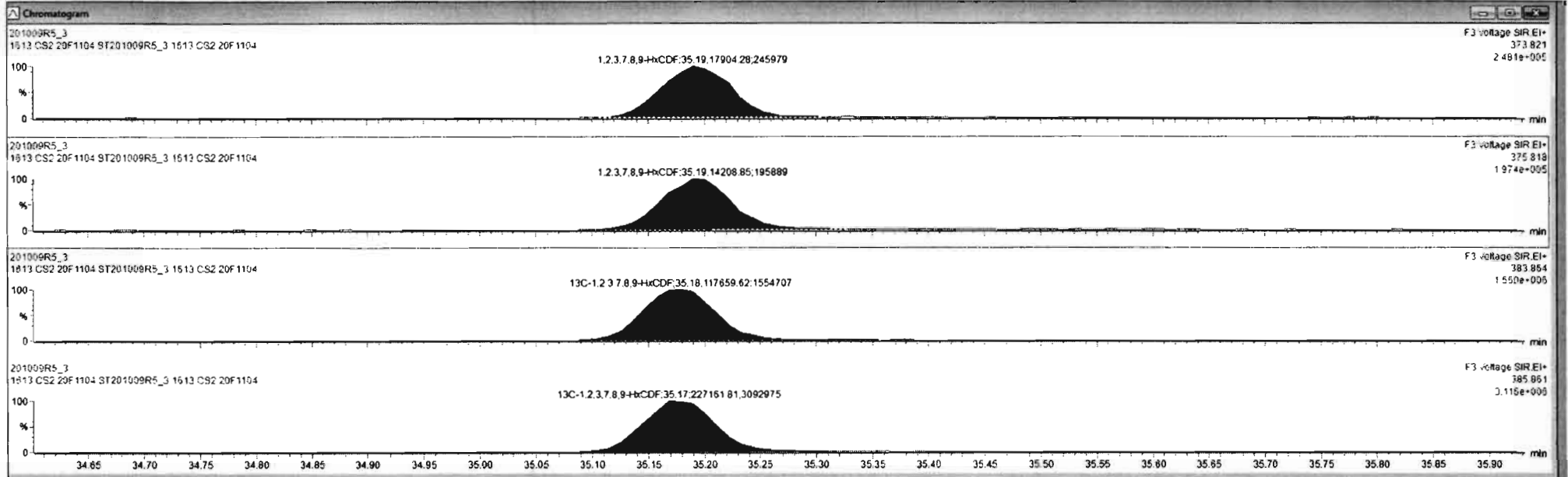


**DPE3**

201009R5\_3



#	Name	RT	RA	yth	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
9	1,2,3,7,8-PeCDF	29.75	1.591	NO	6.0391e4	6.4316e5	10.000	-5.0	9.35	0.989	0.0925
10	2,3,4,7,8-PeCDF	30.79	1.524	NO	6.5756e4	6.3116e5	10.000	-5.0	7.94	1.10	0.0871
11	1,2,3,4,7,8-HxCDF	33.39	1.224	NO	4.0427e4	4.3715e5	10.000	-7.2	9.65	0.996	0.0961
12	1,2,3,6,7,8-HxCDF	33.53	1.254	NO	4.2658e4	4.3908e5	10.000	-6.4	9.53	1.04	0.0989
13	2,3,4,6,7,8-HxCDF	34.19	1.241	NO	4.0601e4	4.2778e5	10.000	-7.8	8.55	1.04	0.0889
14	1,2,3,7,8,9-HxCDF	35.19	1.269	NO	3.2113e4	3.4482e5	10.000	-7.8	9.11	1.01	0.0918
15	1,2,3,4,6,7,8-HpCDF	36.76	1.025	NO	3.0596e4	3.1504e5	10.000	-8.0	8.99	1.06	0.0949
16	1,2,3,4,7,8,9-HpCDF	38.76	1.012	NO	2.5355e4	2.3784e5	10.000	-9.5	9.66	1.18	0.114
17	OCDF	41.38	0.866	NO	4.3309e4	5.1183e5	20.000	-8.9	7.90	0.929	0.0734
18	13C-2,3,7,8-TCDD	26.33	0.774	NO	8.3899e5	5.6323e5	100.000	-0.5	2.40	1.14	0.0274
19	13C-1,2,3,7,8-PeCDD	30.97	0.637	NO	4.1790e5	5.6323e5	100.000	-6.6	10.5	0.794	0.0835
20	13C-1,2,3,4,7,8-HxCDD	34.28	1.322	NO	3.0247e5	4.5374e5	100.000	-4.5	8.09	0.698	0.0565
21	13C-1,2,3,6,7,8-HxCDD	34.40	1.260	NO	3.4167e5	4.5374e5	100.000	-3.2	7.62	0.776	0.0609
22	13C-1,2,3,7,8,9-HxCDD	34.68	1.275	NO	3.2983e5	4.5374e5	100.000	-3.2	7.74	0.751	0.0581



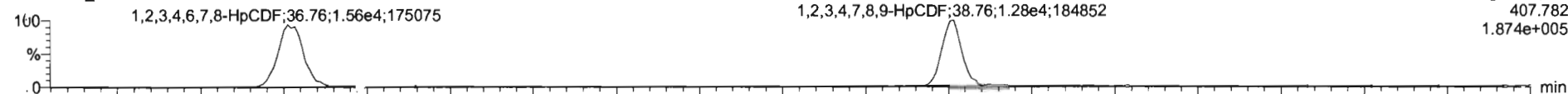
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

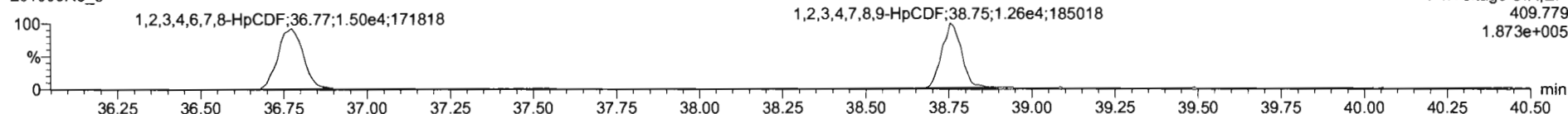
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**1,2,3,4,6,7,8-HpCDF**

201009R5\_3

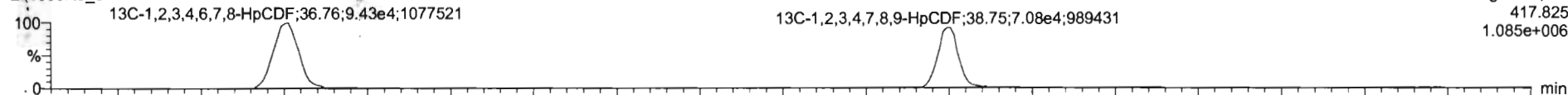


201009R5\_3

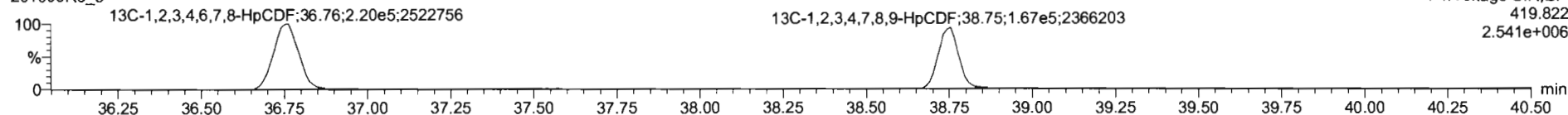


**<sup>13</sup>C-1,2,3,4,6,7,8-HpCDF**

201009R5\_3

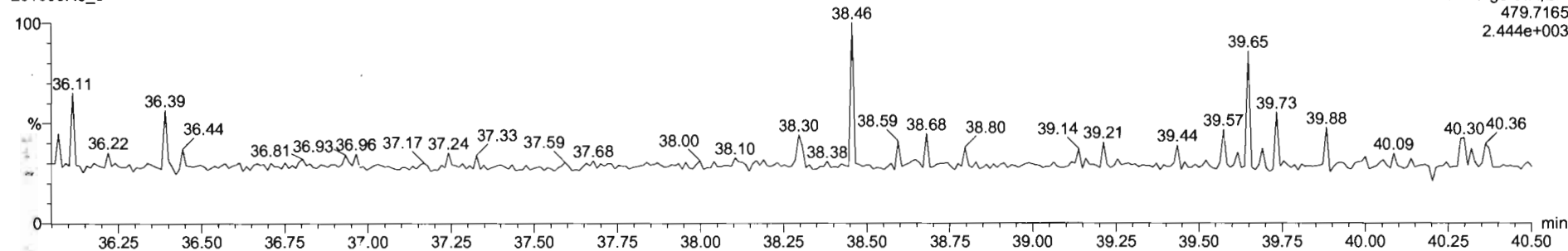


201009R5\_3



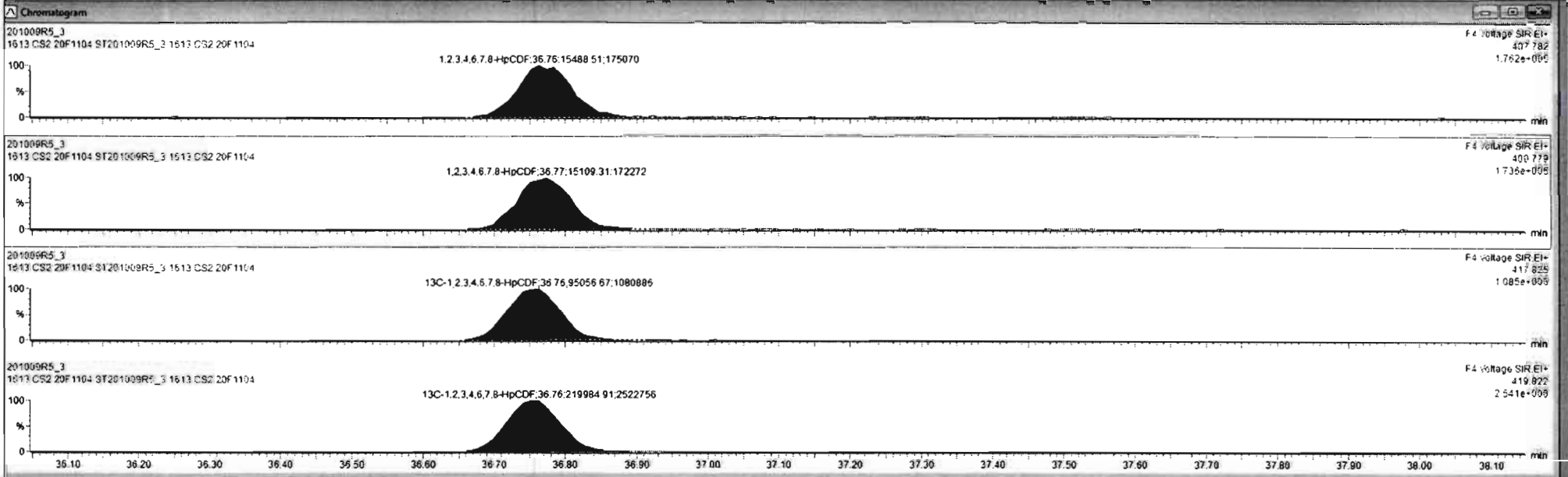
**DPE4**

201009R5\_3



201009R5\_3 - ST201009R5\_3 1613 CS2 20F1104 - 1613 CS2 20F1104

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
9	1,2,3,7,8-PeCDF	29.75	1.591	NO	6.0391e4	6.4316e5	10.000	-5.0	9.35	0.989	0.0925
10	2,3,4,7,8-PeCDF	30.73	1.524	NO	6.5756e4	6.3116e5	10.000	-5.0	7.94	1.10	0.0671
11	1,2,3,4,7,8-HxCDF	33.39	1.224	NO	4.0427e4	4.3715e5	10.000	-7.2	9.65	0.996	0.0961
12	1,2,3,6,7,8-HxCDF	33.52	1.254	NO	4.2658e4	4.3998e5	10.000	-6.4	9.53	1.04	0.0989
13	2,3,4,6,7,8-HxCDF	34.19	1.241	NO	4.0601e4	4.2378e5	10.000	-7.6	8.55	1.04	0.0889
14	1,2,3,7,8,9-HxCDF	35.19	1.260	NO	3.2113e4	3.4482e5	10.000	-7.6	9.11	1.01	0.0918
15	1,2,3,4,6,7,8-HpCDF	36.76	1.025	NO	3.0598e4	3.1594e5	10.000	-8.0	8.99	1.00	0.0949
16	1,2,3,4,7,8,9-HpCDF	36.76	1.012	NO	2.6355e4	2.3784e5	10.000	-9.5	9.66	1.18	0.114
17	OCDF	41.36	0.866	NO	4.3309e4	5.1183e5	20.000	-8.9	7.90	0.929	0.0734
18	13C-2,3,7,8-TCDD	26.33	0.774	NO	6.3899e5	5.6323e5	100.000	-0.5	2.40	1.14	0.0274
19	13C-1,2,3,7,8-PeCDD	30.97	0.637	NO	4.1790e5	5.6323e5	100.000	-6.6	10.5	0.794	0.0835
20	13C-1,2,3,4,7,8-HxCDD	34.29	1.322	NO	3.0247e5	4.5374e5	100.000	-4.5	8.09	0.698	0.0565
21	13C-1,2,3,6,7,8-HxCDD	34.40	1.260	NO	3.4167e5	4.5374e5	100.000	-3.2	7.62	0.776	0.0609
22	13C-1,2,3,7,8,9-HxCDD	34.68	1.275	NO	3.2983e5	4.5374e5	100.000	-3.2	7.74	0.751	0.0581

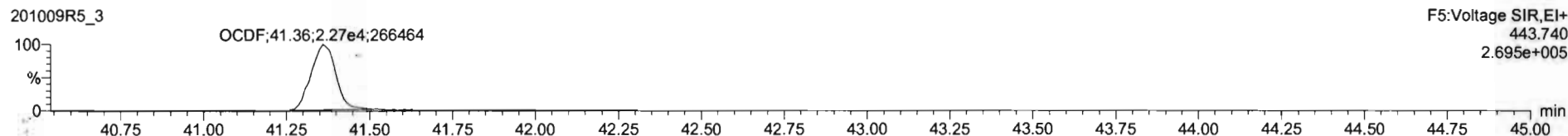
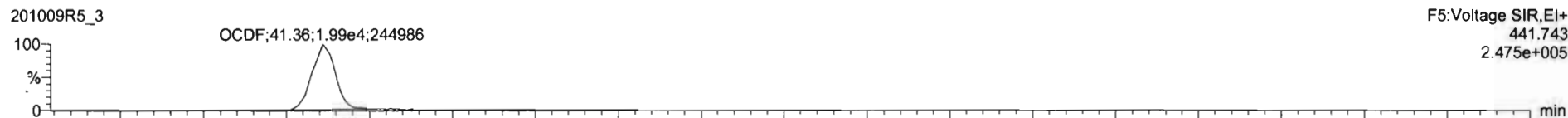


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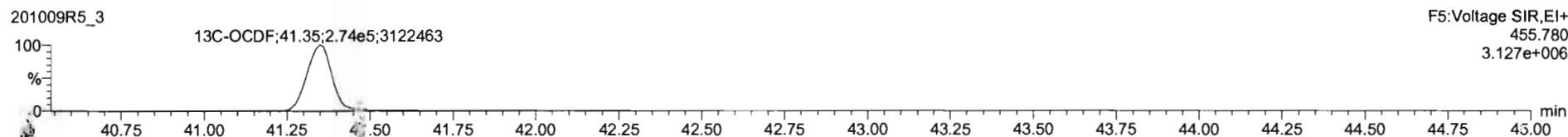
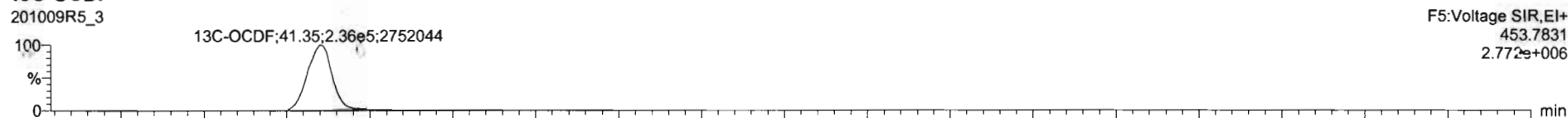
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

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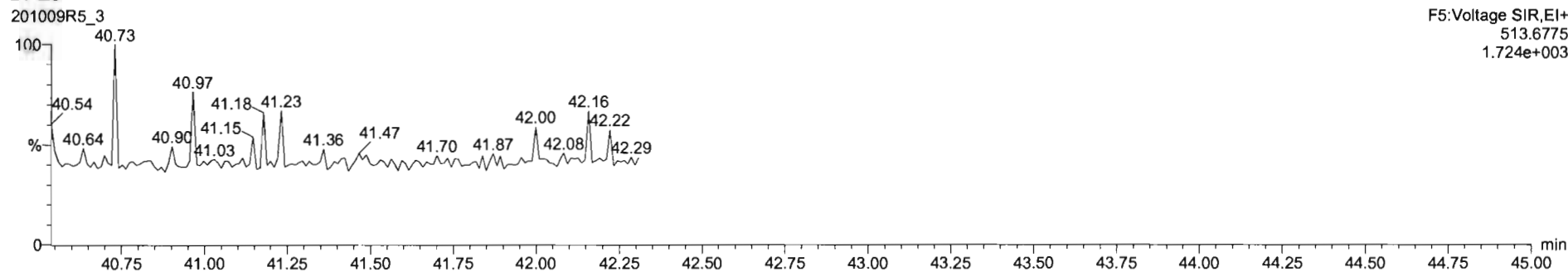
**OCDF**



**13C-OCDF**

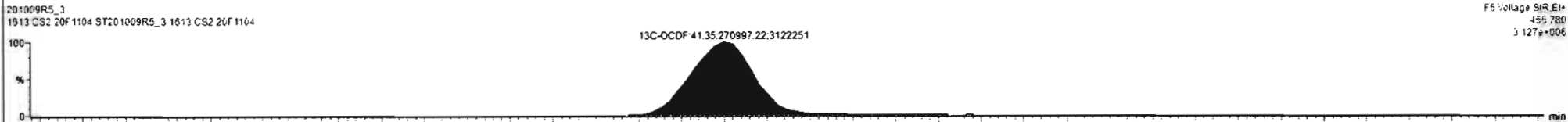
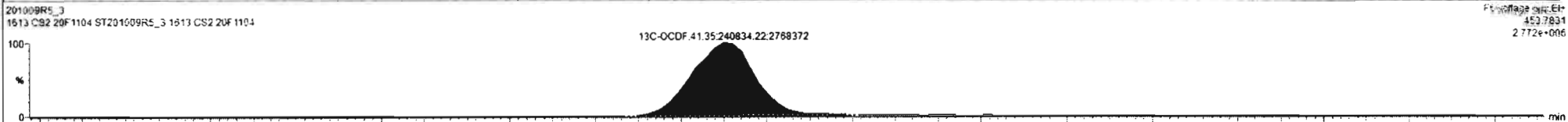
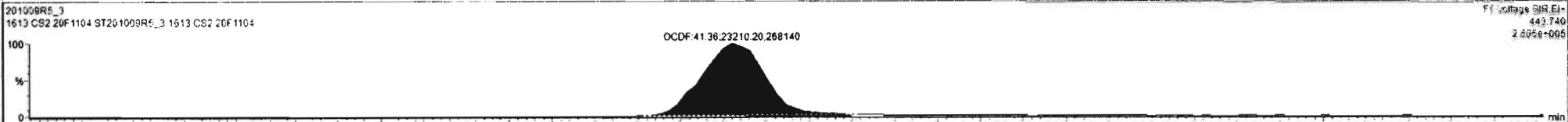
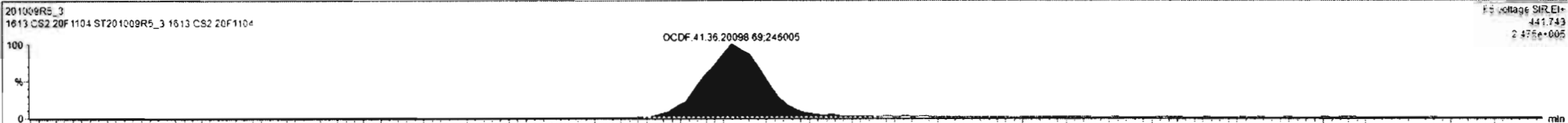


**DPE5**



201009R5\_3 - ST201009R5\_3 1613 CS2 20F1104 - 1613 CS2 20F1104

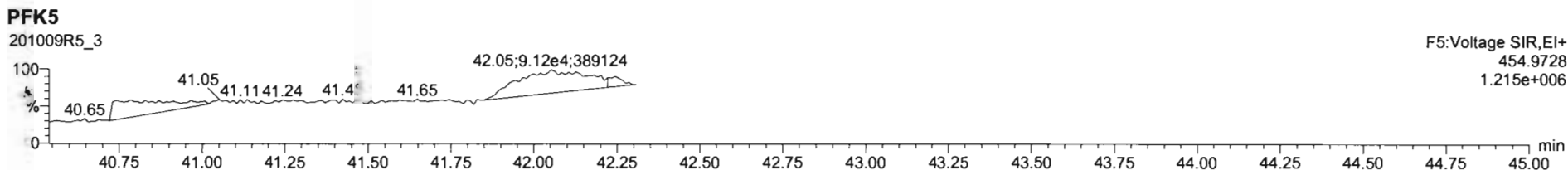
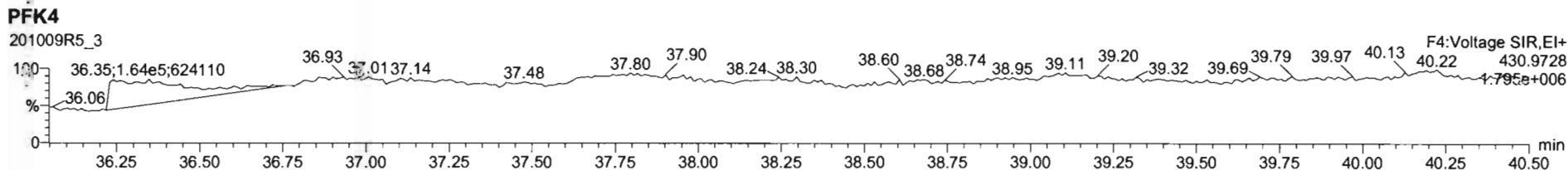
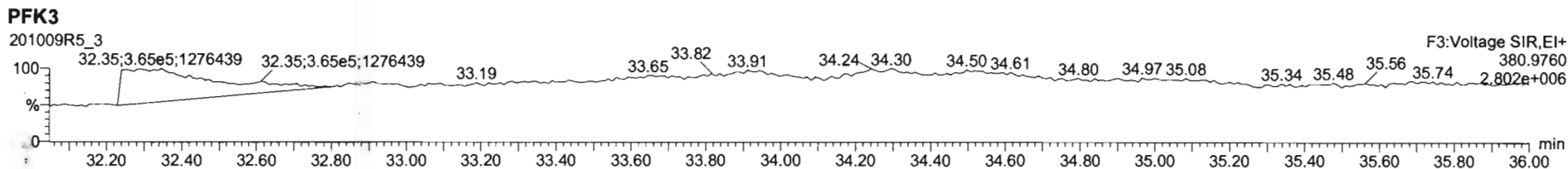
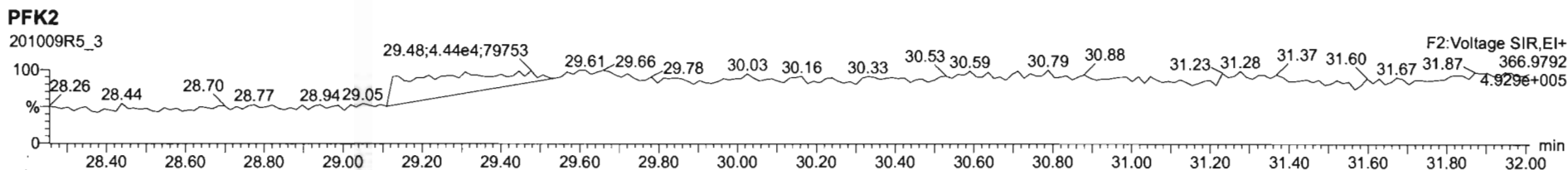
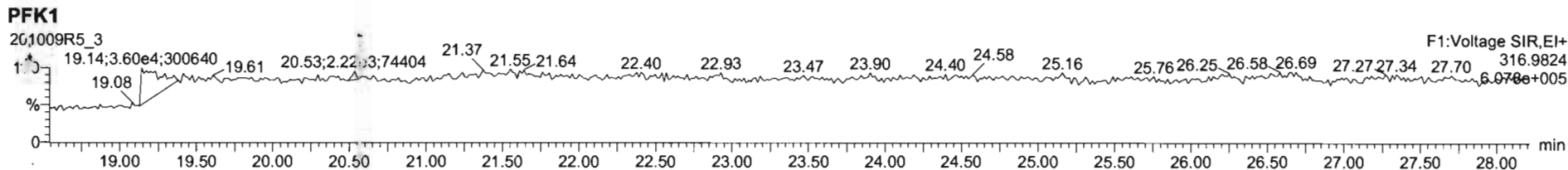
#	Name	RT	RA	Yth	Area	S Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
9	1,2,3,7,8-PeCDF	29.75	1.591	NO	6.0391e4	6.4316e5	10.000	-5.0	9.35	0.989	0.0925
10	2,3,4,7,8-PeCDF	30.79	1.524	NO	6.5756e4	6.3116e5	10.000	-5.0	7.94	1.10	0.0671
11	1,2,3,4,7,8-HxCDF	33.39	1.224	NO	4.0427e4	4.3715e5	10.000	-7.2	9.85	0.996	0.0961
12	1,2,3,6,7,8-HxCDF	33.53	1.254	NO	4.2658e4	4.3908e5	10.000	-6.4	9.53	1.04	0.0969
13	2,3,4,6,7,8-HxCDF	34.19	1.241	NO	4.0601e4	4.2378e5	10.000	-7.8	8.55	1.04	0.0689
14	1,2,3,7,8,9-HxCDF	35.19	1.260	NO	3.2113e4	3.4482e5	10.000	-7.6	9.11	1.01	0.0918
15	1,2,3,4,6,7,8-HpCDF	36.76	1.025	NO	3.0596e4	3.1504e5	10.000	-8.0	5.96	1.06	0.0949
16	1,2,3,4,7,8,9-HpCDF	38.76	1.012	NO	2.5356e4	2.3784e5	10.000	-9.5	9.66	1.18	0.114
17	OCDF	41.36	0.966	NO	4.3309e4	5.1183e5	20.000	-8.9	7.90	0.929	0.0734
18	13C-2,3,7,8-TCDD	26.33	0.774	NO	6.3899e5	5.6323e5	100.000	-0.5	2.40	1.14	0.0274
19	13C-1,2,3,7,8-PeCDD	30.97	0.637	NO	4.1790e5	5.6323e5	100.000	-6.6	10.5	0.794	0.0635
20	13C-1,2,3,4,7,8-HxCDD	34.28	1.322	NO	3.0247e5	4.5374e5	100.000	-4.5	8.09	0.698	0.0565
21	13C-1,2,3,6,7,8-HxCDD	34.40	1.260	NO	3.4167e5	4.5374e5	100.000	-3.2	7.82	0.776	0.0669
22	13C-1,2,3,7,8,9-HxCDD	34.68	1.275	NO	3.2983e5	4.5374e5	100.000	-3.2	7.74	0.751	0.0581



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_3, Date: 09-Oct-2020, Time: 17:49:56, ID: ST201009R5\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104





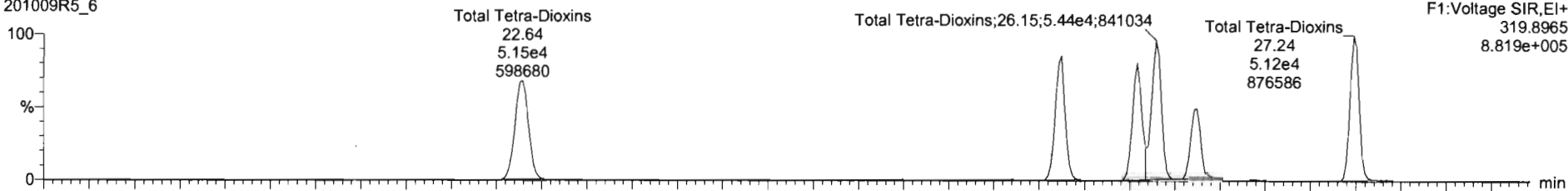
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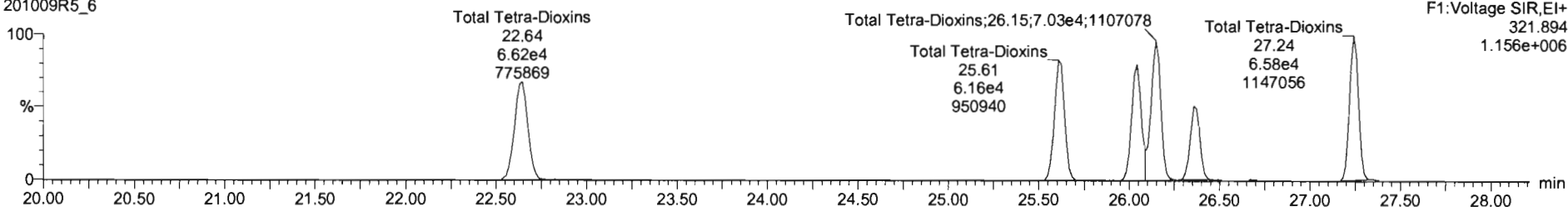
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2,3,7,8-TCDD

201009R5\_6

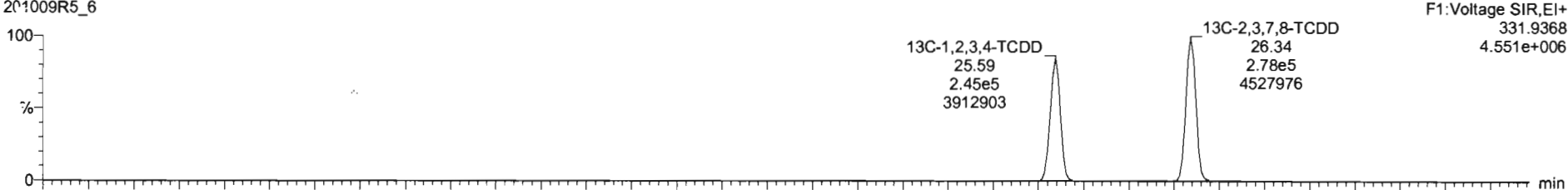


201009R5\_6

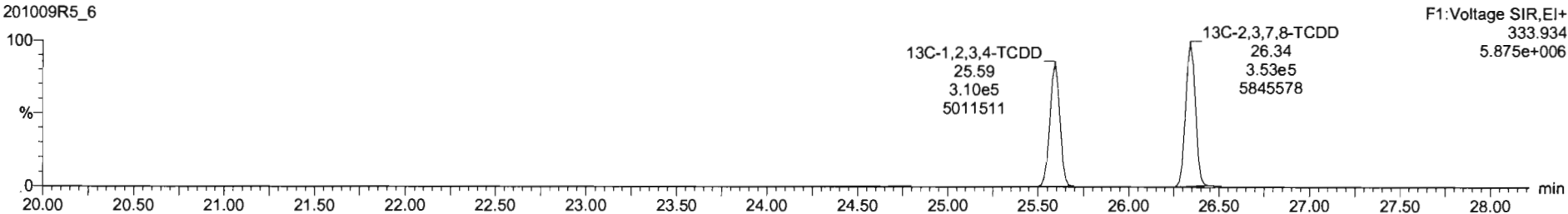


13C-2,3,7,8-TCDD

201009R5\_6



201009R5\_6



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

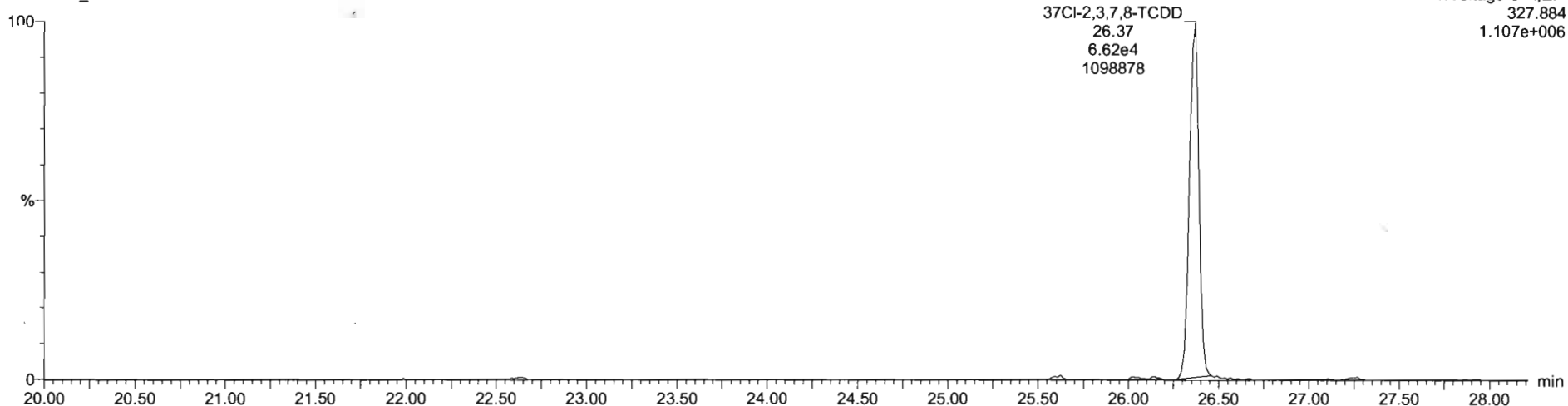
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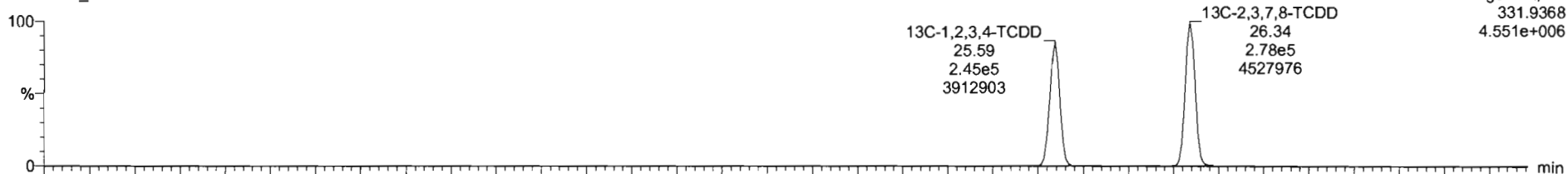
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201009R5\_6

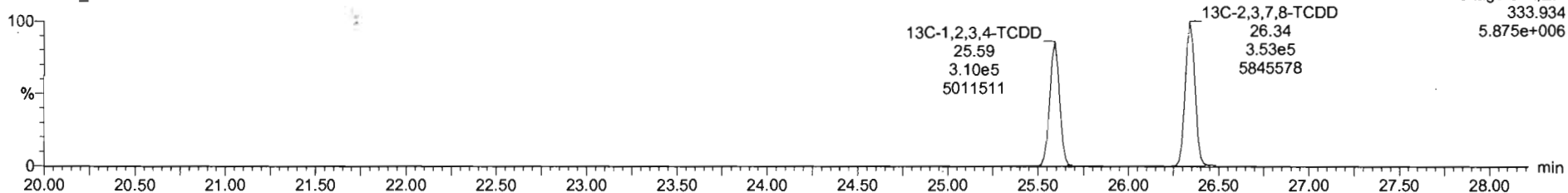


**13C-1,2,3,4-TCDD**

201009R5\_6



201009R5\_6



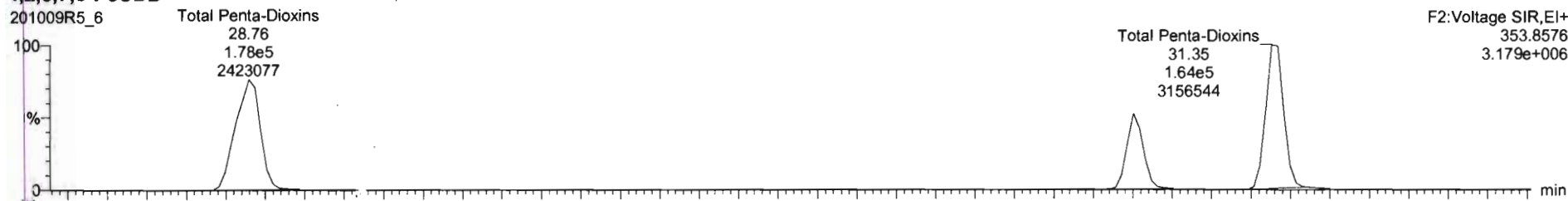
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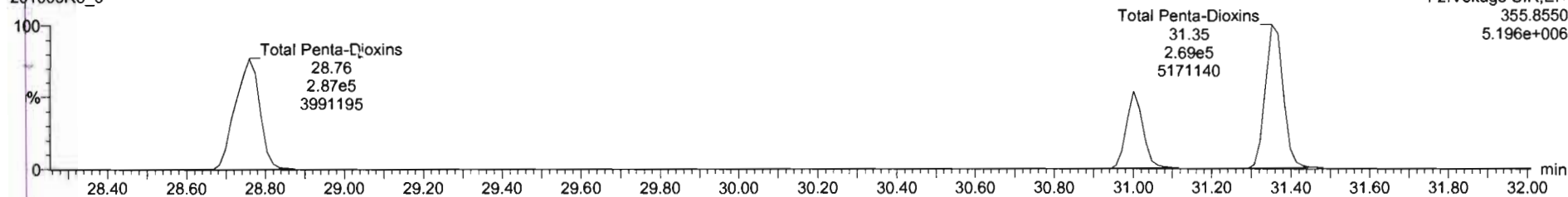
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**1,2,3,7,8-PeCDD**

201009R5\_6

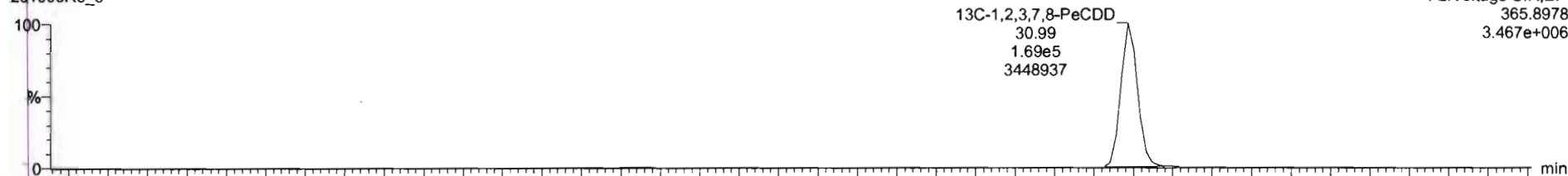


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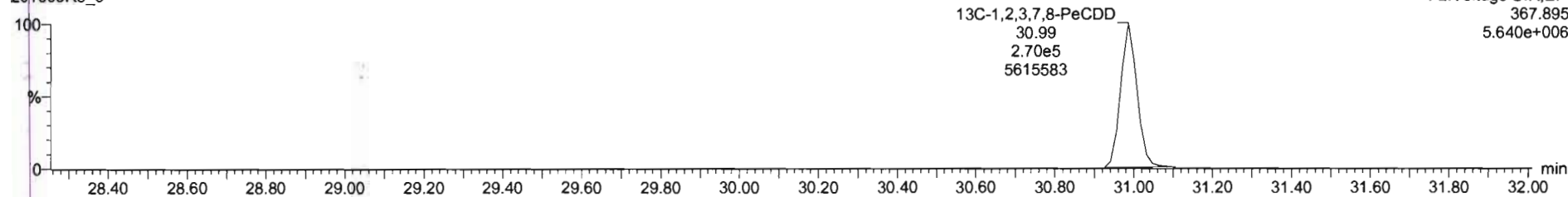


**13C-1,2,3,7,8-PeCDD**

201009R5\_6



201009R5\_6



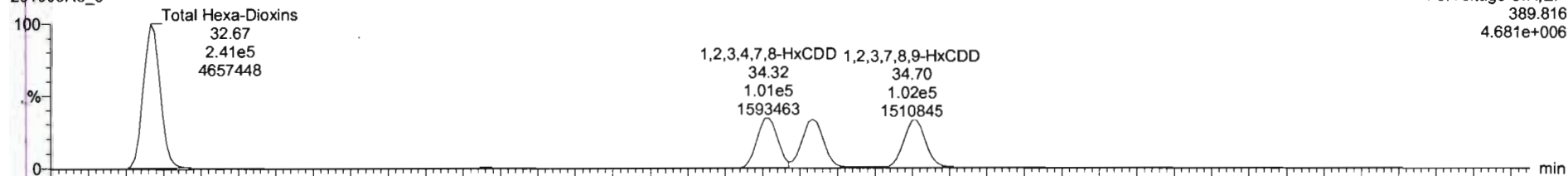
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

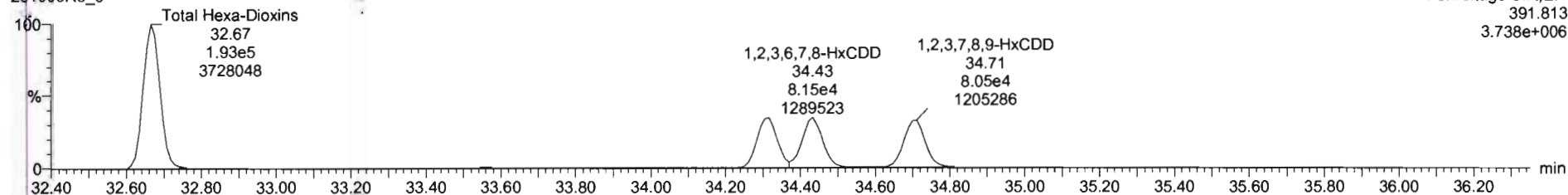
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1,2,3,4,7,8-HxCDD

201009R5\_6

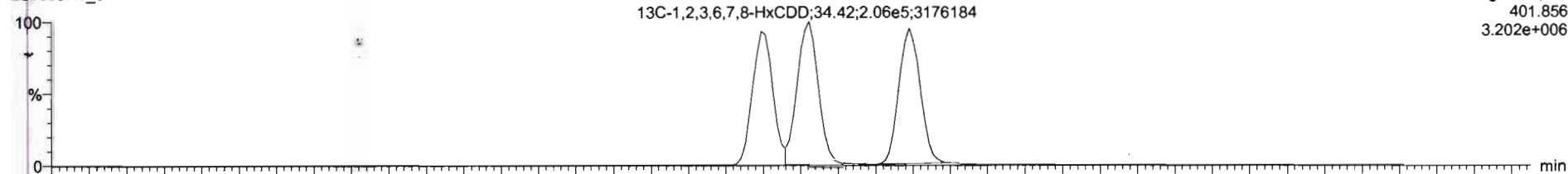


201009R5\_6

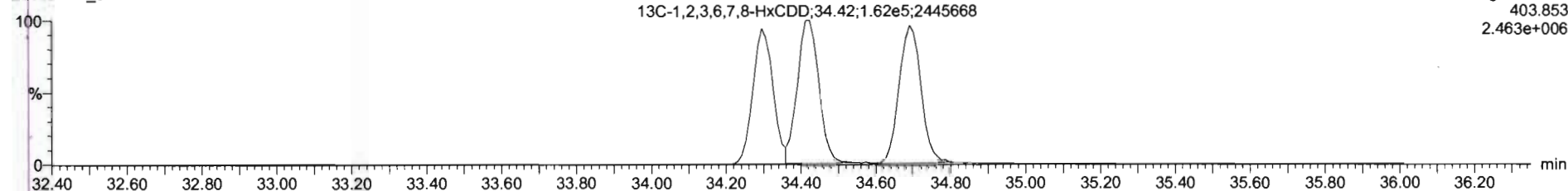


13C-1,2,3,4,7,8-HxCDD

201009R5\_6



201009R5\_6



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

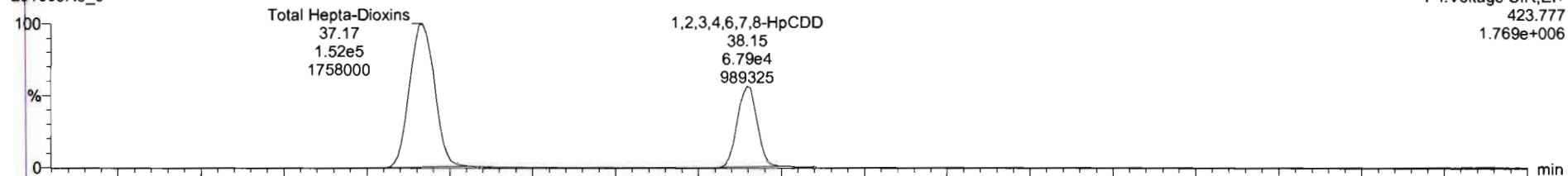
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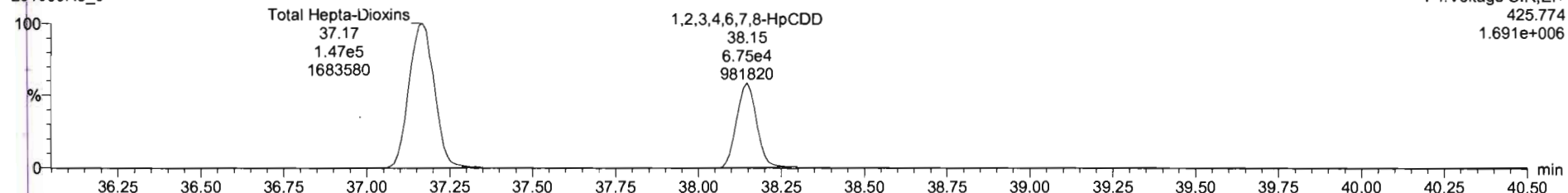
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**1,2,3,4,6,7,8-HpCDD**

201009R5\_6

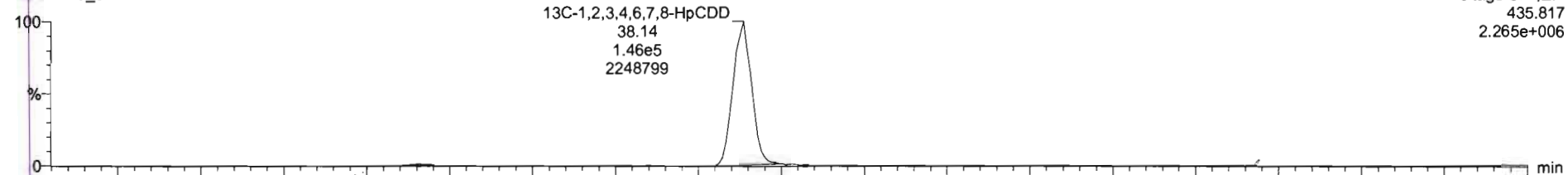


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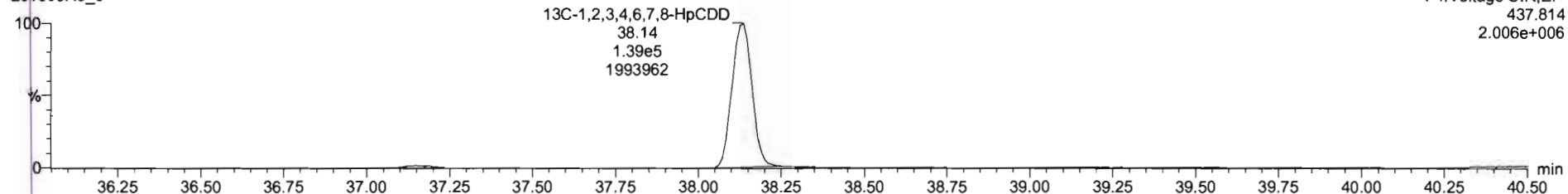


**13C-1,2,3,4,6,7,8-HpCDD**

201009R5\_6



201009R5\_6



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

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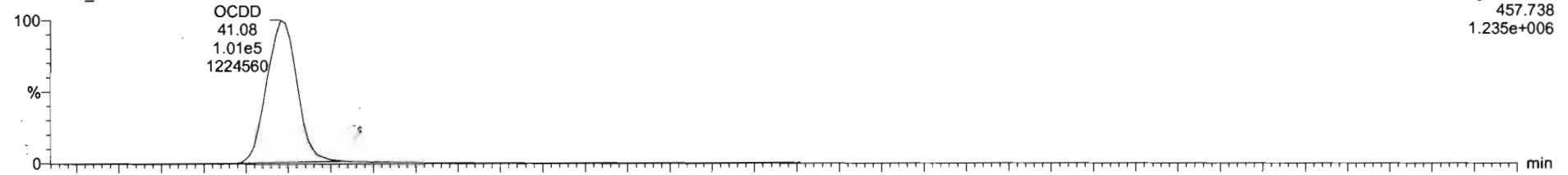
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OCDD

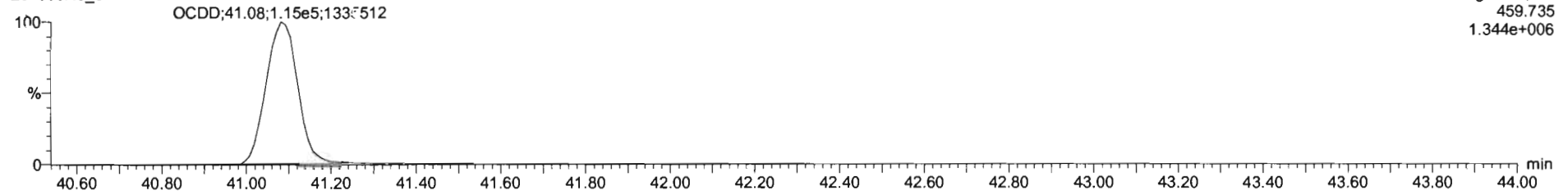
201009R5\_6

F5:Voltage SIR,EI+  
457.738  
1.235e+006



201009R5\_6

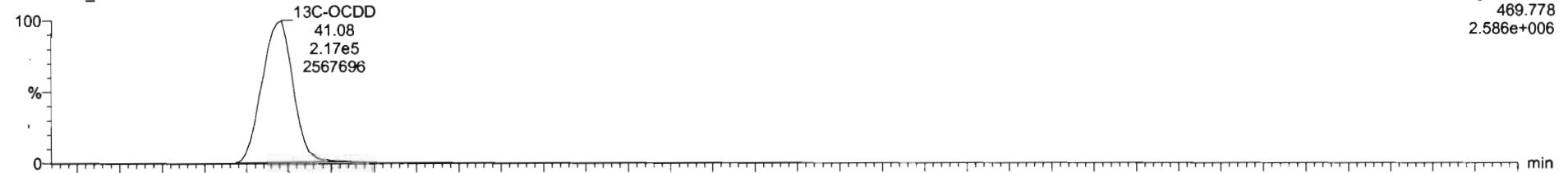
F5:Voltage SIR,EI+  
459.735  
1.344e+006



13C-OCDD

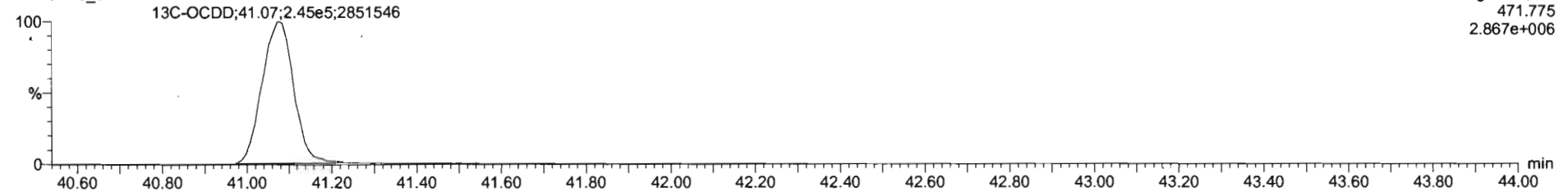
201009R5\_6

F5:Voltage SIR,EI+  
469.778  
2.586e+006



201009R5\_6

F5:Voltage SIR,EI+  
471.775  
2.867e+006



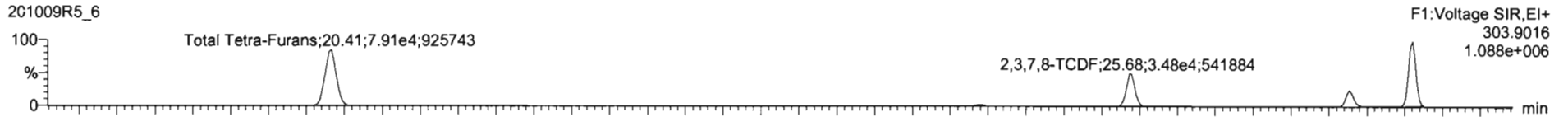
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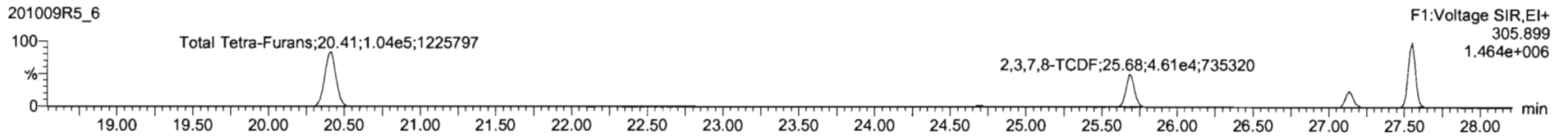
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**2,3,7,8-TCDF**

201009R5\_6

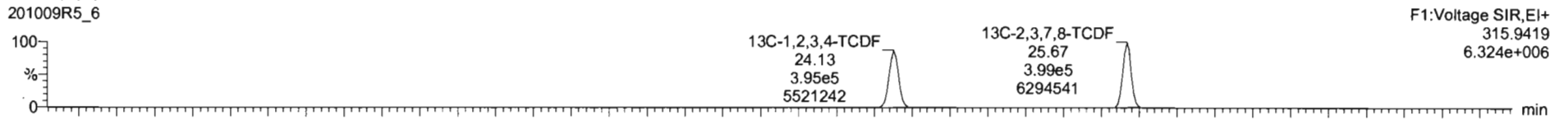


201009R5\_6

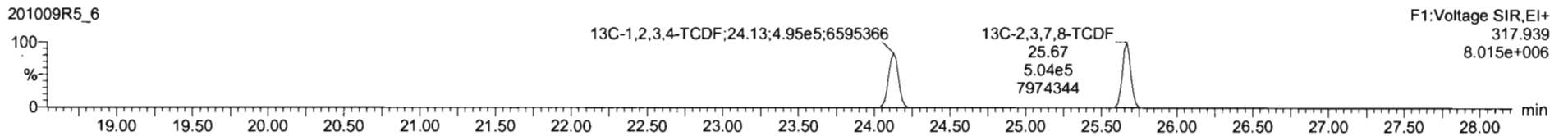


**13C-2,3,7,8-TCDF**

201009R5\_6

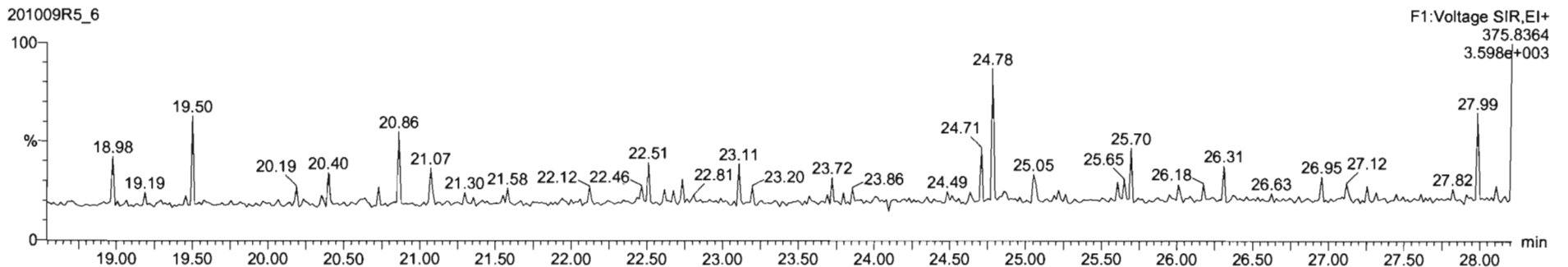


201009R5\_6



**DPE1**

201009R5\_6



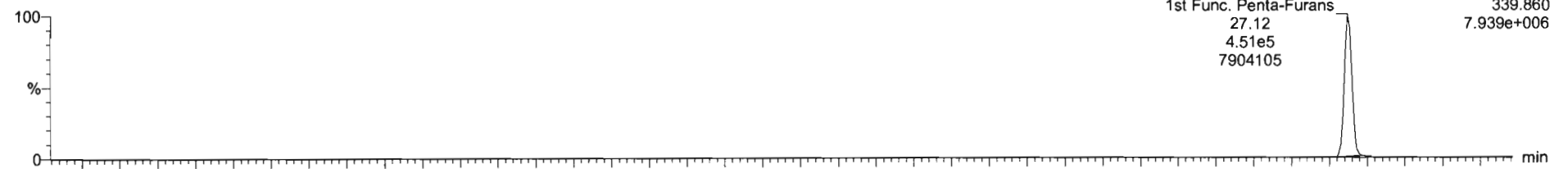
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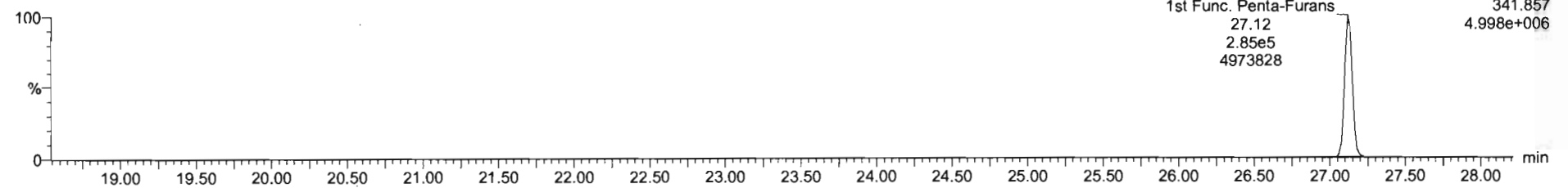
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201009R5\_6

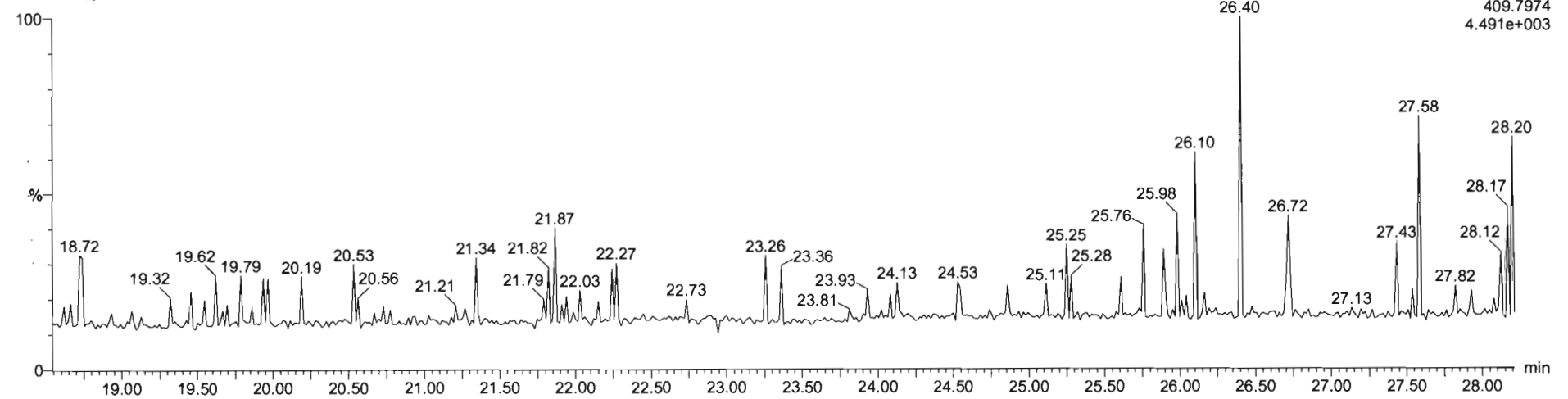


201009R5\_6



DPE6

201009R5\_6





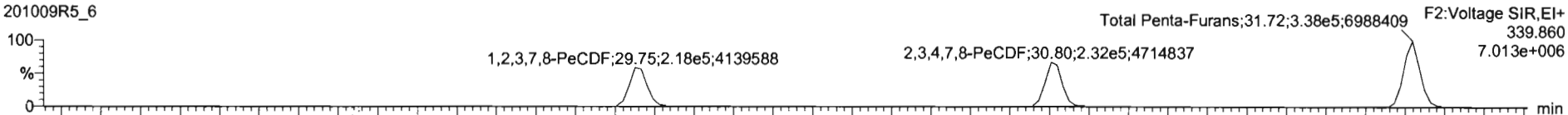
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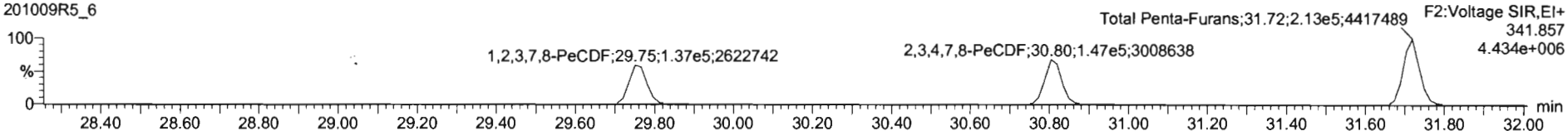
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**1,2,3,7,8-PeCDF**

201009R5\_6



201009R5\_6

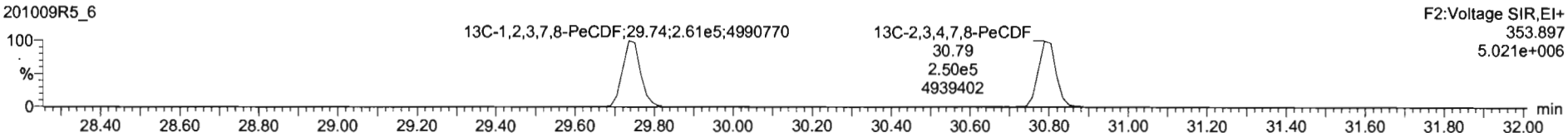


**13C-1,2,3,7,8-PeCDF**

201009R5\_6

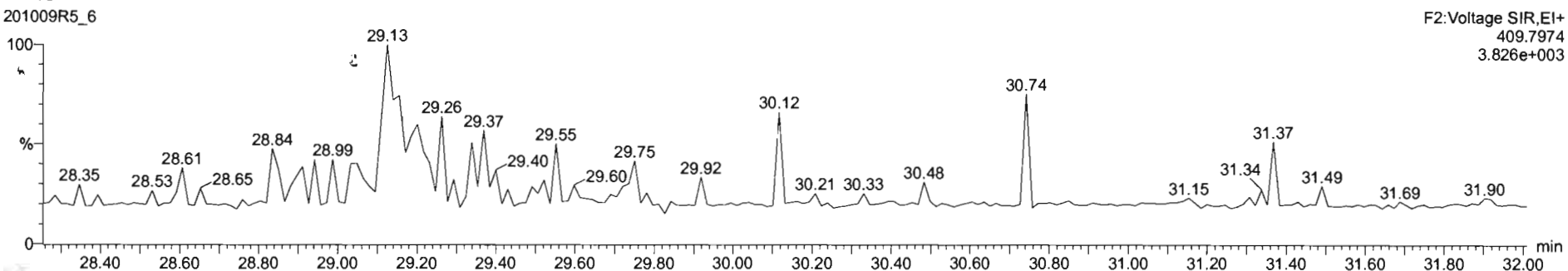


201009R5\_6



**DPE2**

201009R5\_6



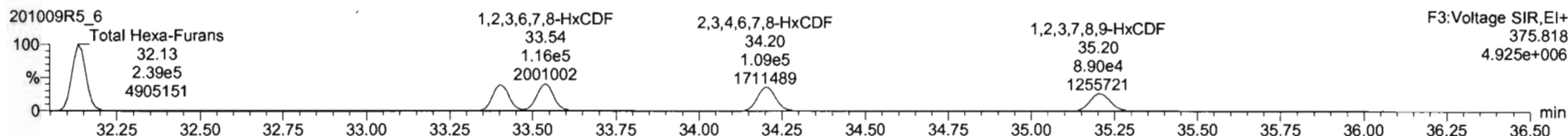
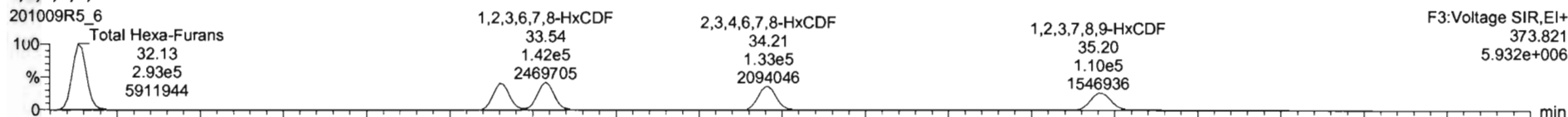
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time

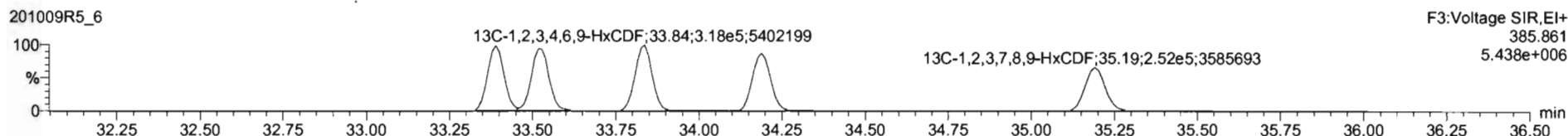
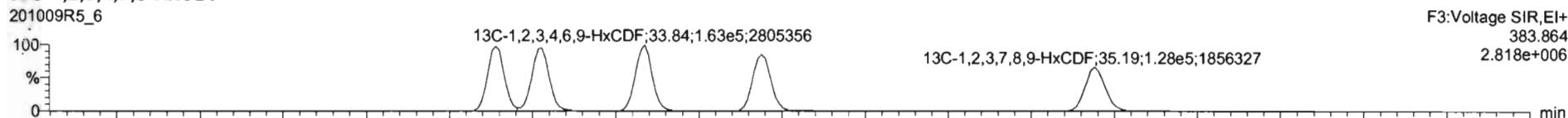
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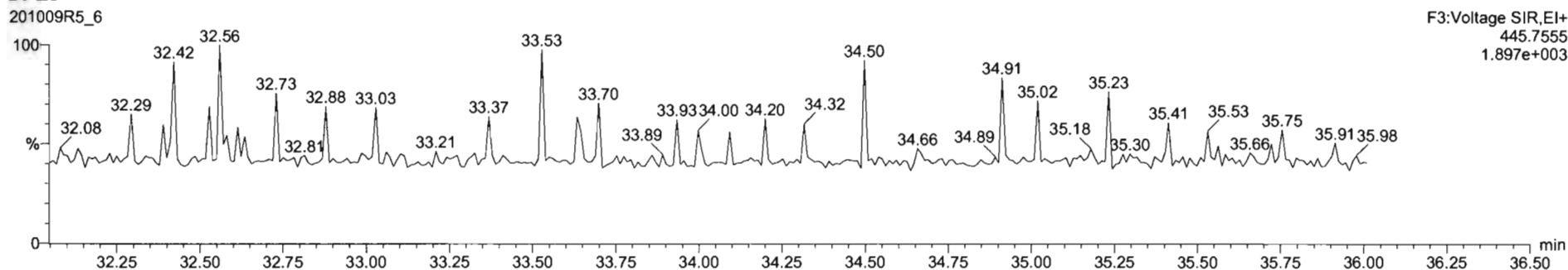
**1,2,3,4,7,8-HxCDF**



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



**DPE3**

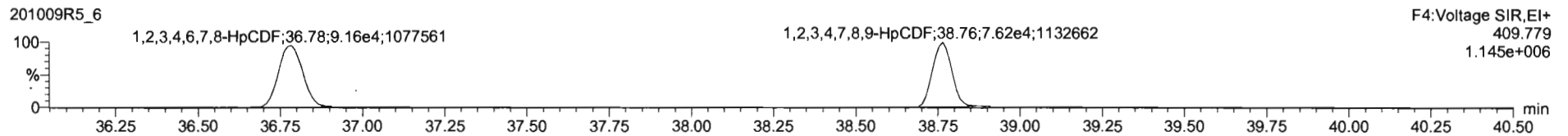
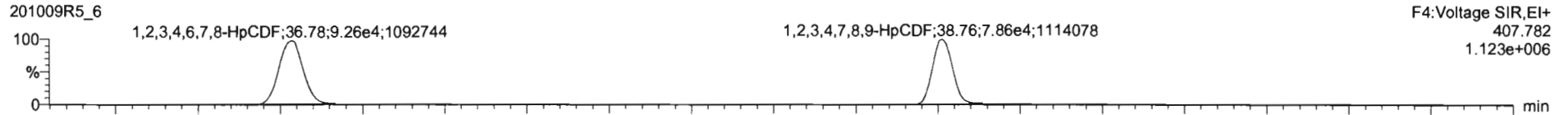


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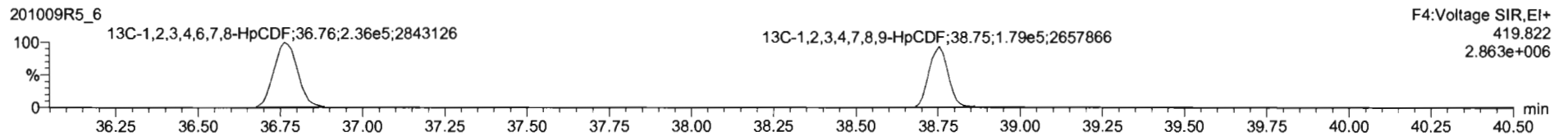
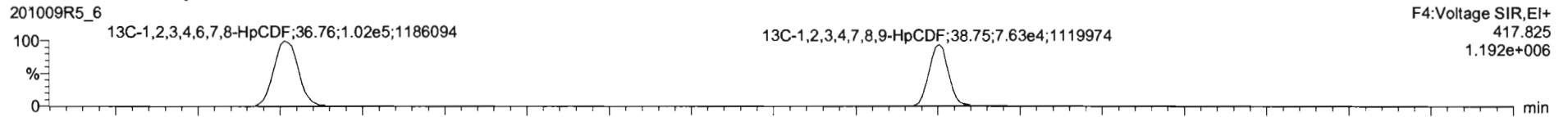
Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_6, Date: 09-Oct-2020, Time: 20:01:08, ID: ST201009R5\_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

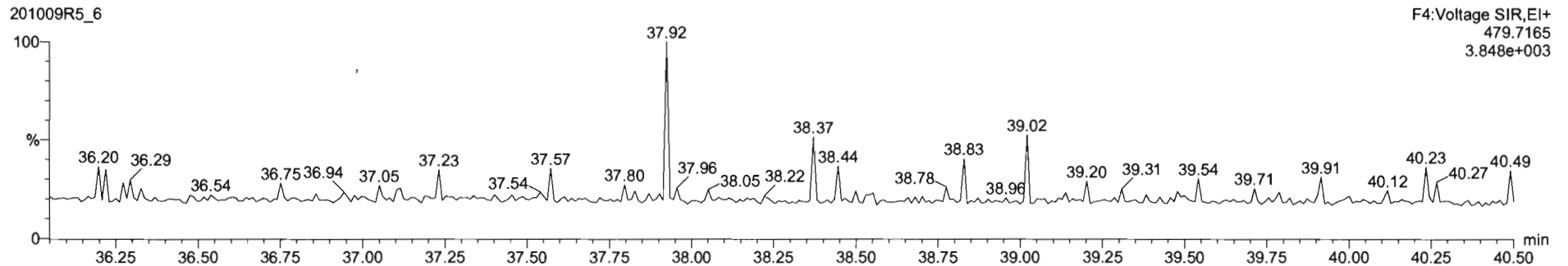
1,2,3,4,6,7,8-HpCDF



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



DPE4

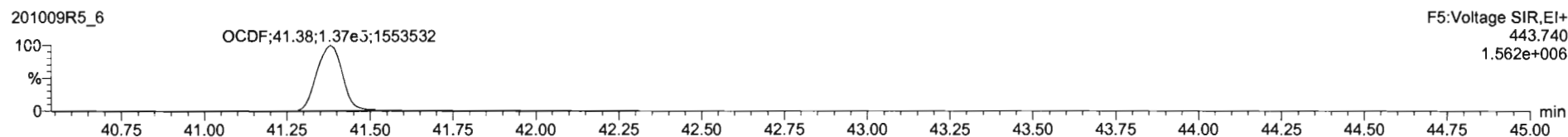
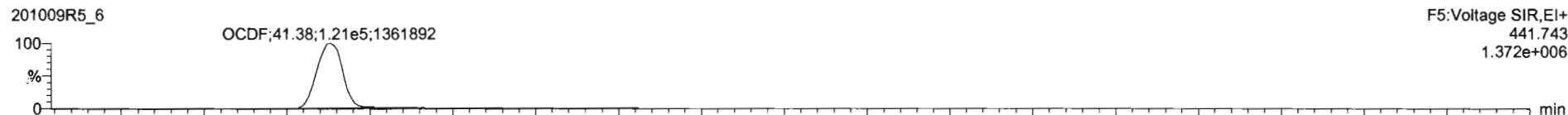


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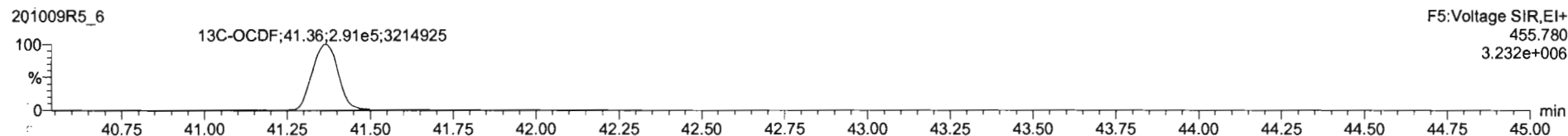
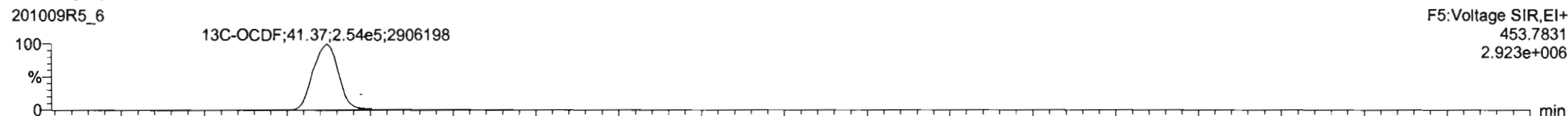
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

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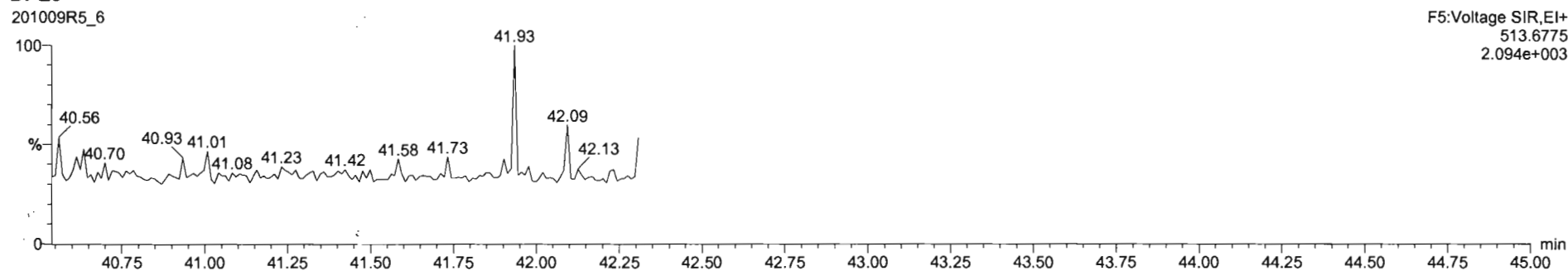
**OCDF**



**13C-OCDF**



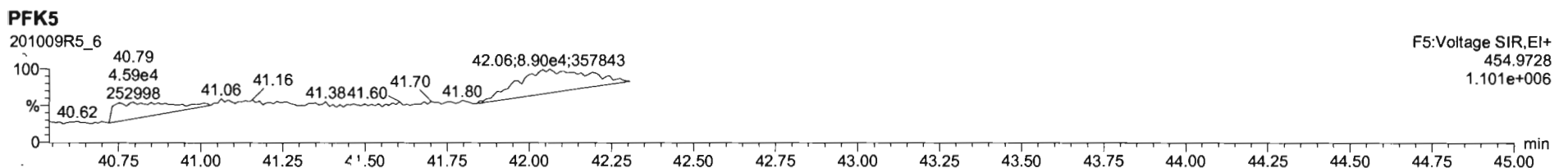
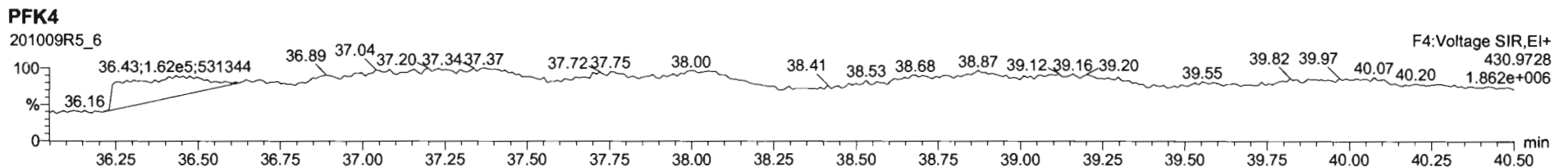
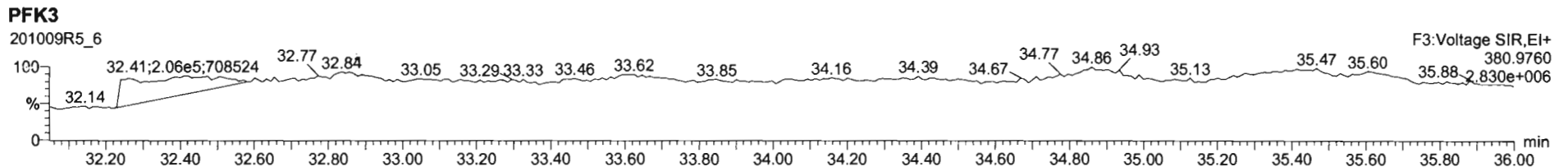
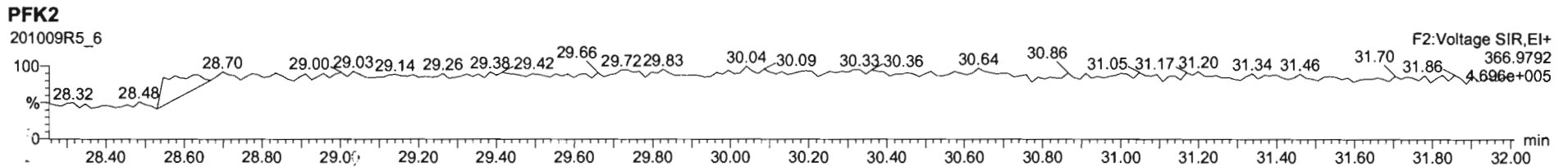
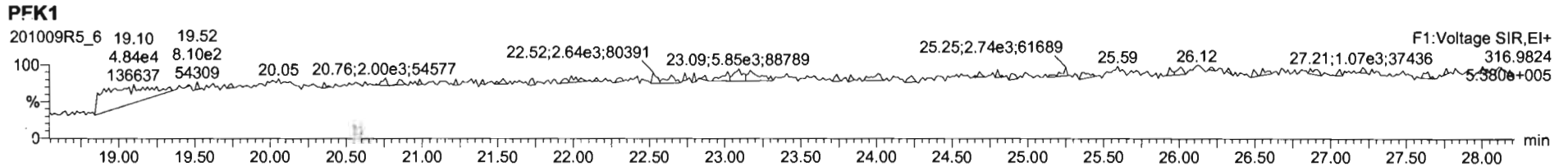
**DPE5**



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_6, Date: 09-Oct-2020, Time: 20:01:08, ID: ST201009R5\_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105



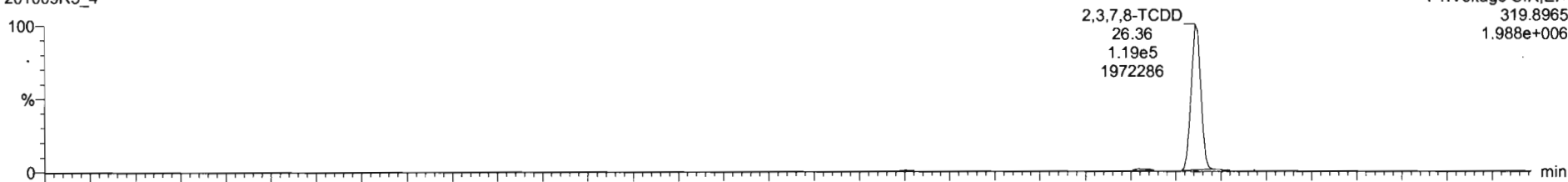
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

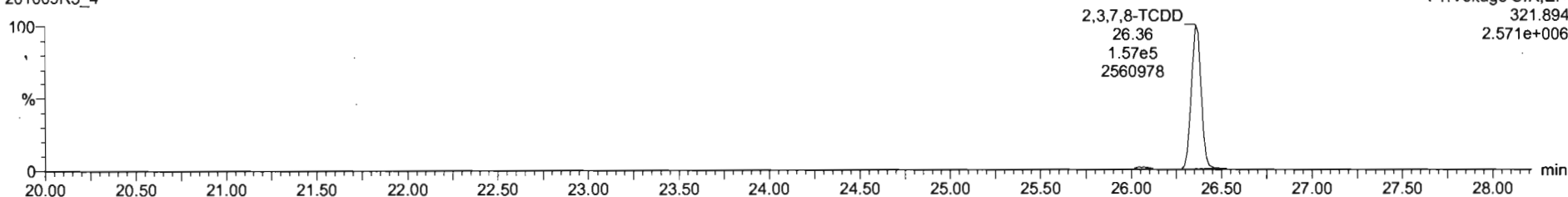
Name: 201009R5\_4, Date: 09-Oct-2020, Time: 18:33:40, ID: ST201009R5\_4 1613 CS4 20F1106, Description: 1613 CS4 20F1106

2,3,7,8-TCDD

201009R5\_4

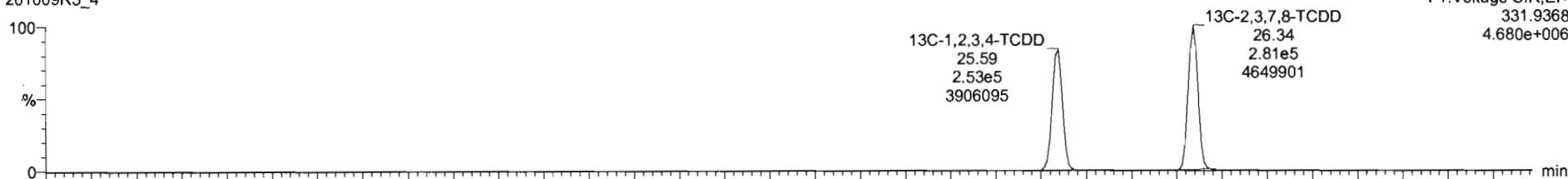


201009R5\_4

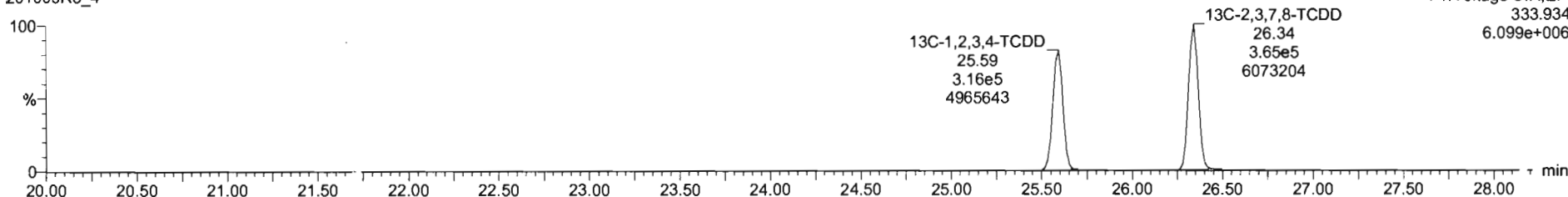


13C-2,3,7,8-TCDD

201009R5\_4



201009R5\_4



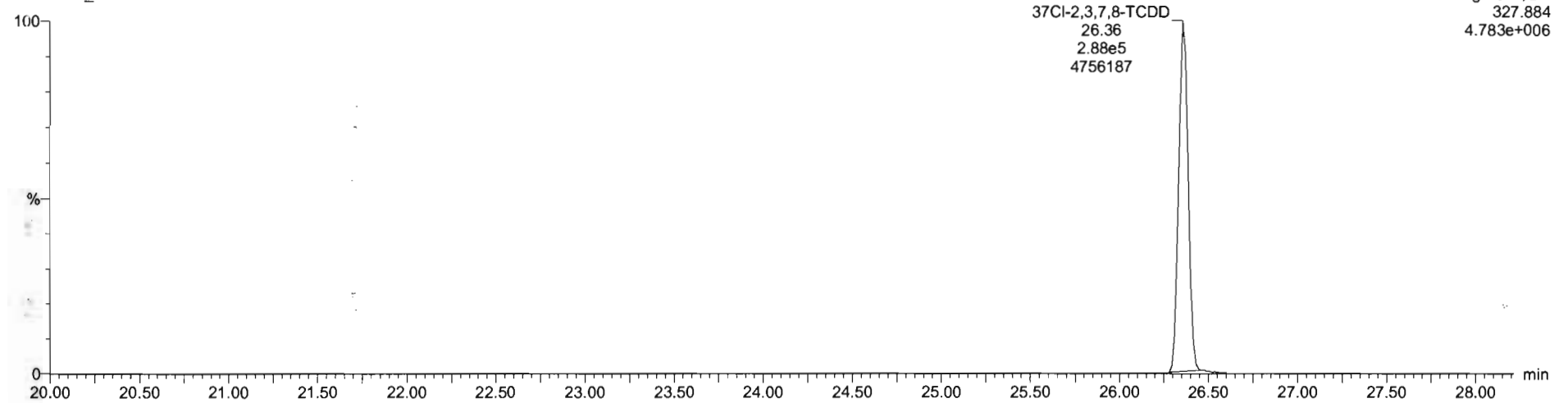
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

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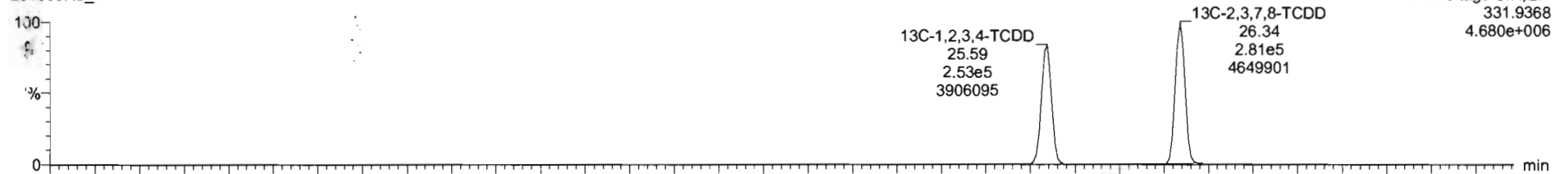
**37Cl-2,3,7,8-TCDD**

201009R5\_4

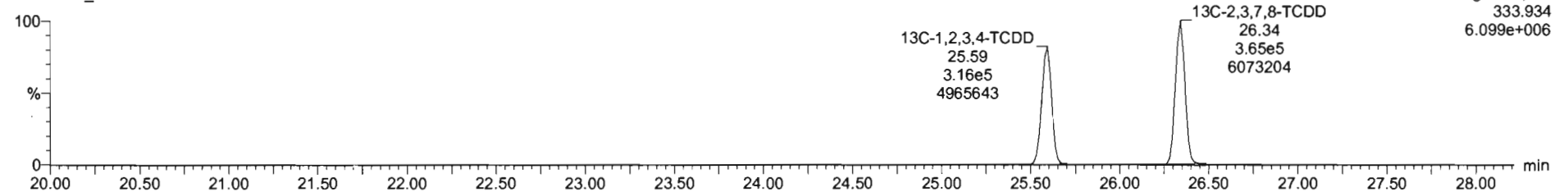


**13C-1,2,3,4-TCDD**

201009R5\_4



201009R5\_4



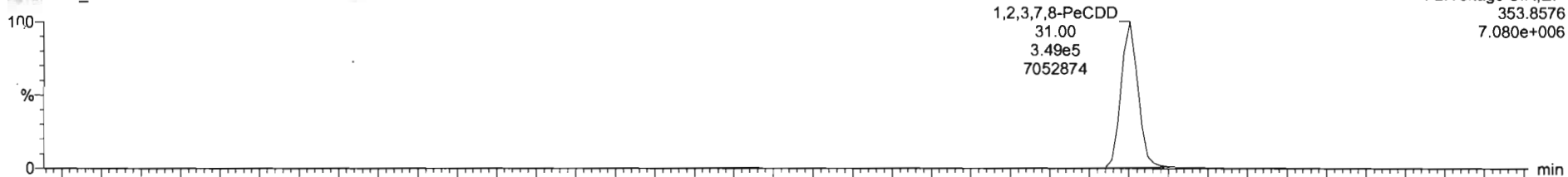
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

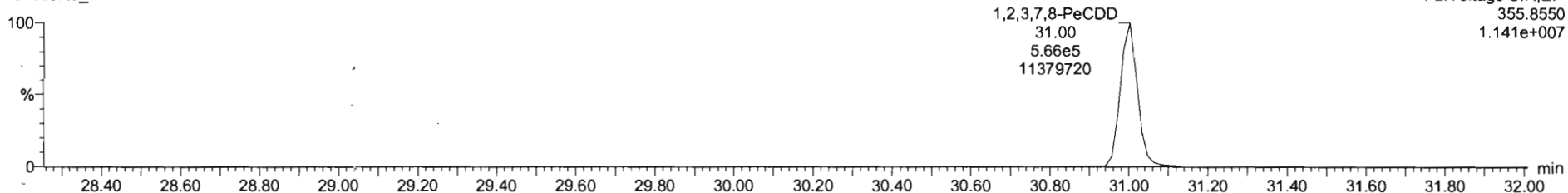
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**1,2,3,7,8-PeCDD**

201009R5\_4

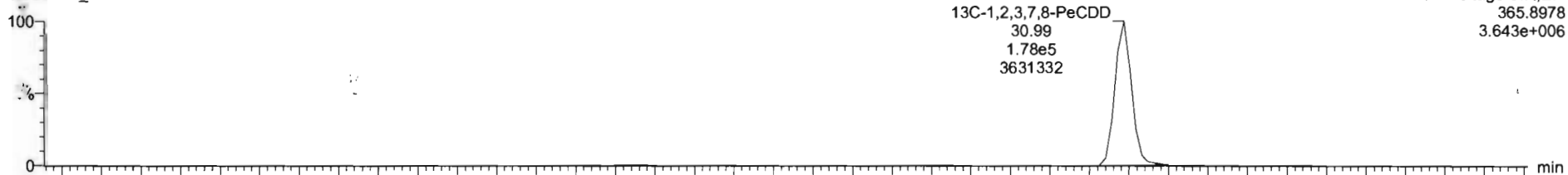


201009R5\_4

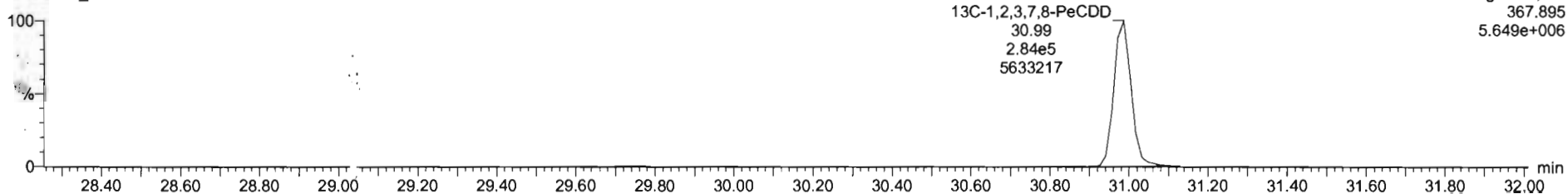


**13C-1,2,3,7,8-PeCDD**

201009R5\_4



201009R5\_4





Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

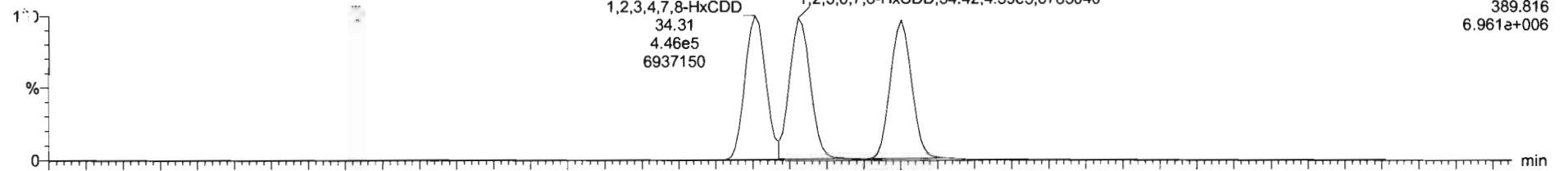
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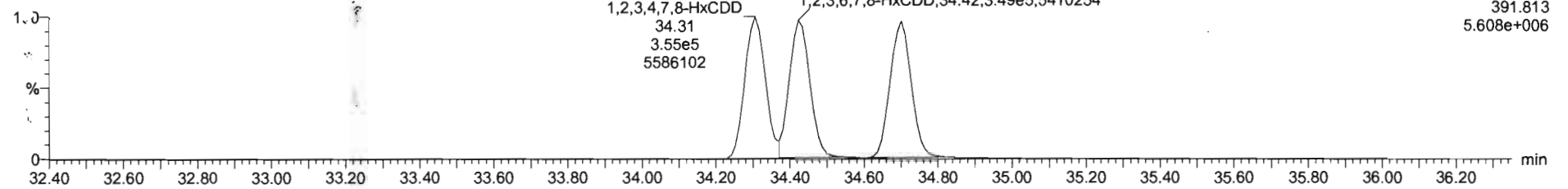
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**1,2,3,4,7,8-HxCDD**

201009R5\_4

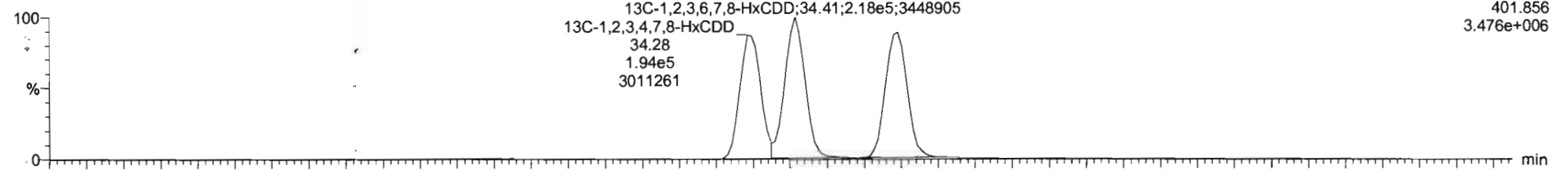


201009R5\_4

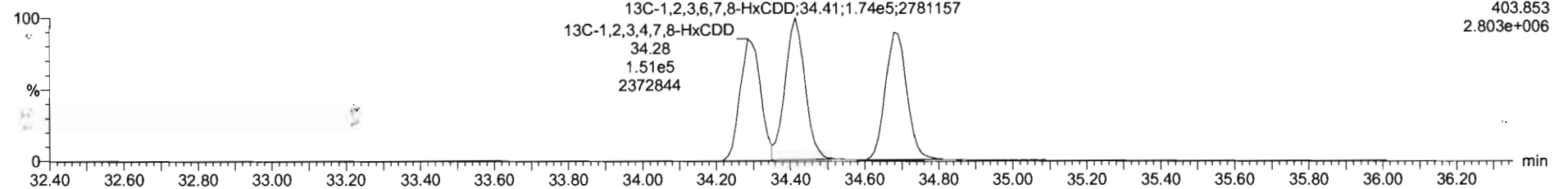


**13C-1,2,3,4,7,8-HxCDD**

201009R5\_4



201009R5\_4



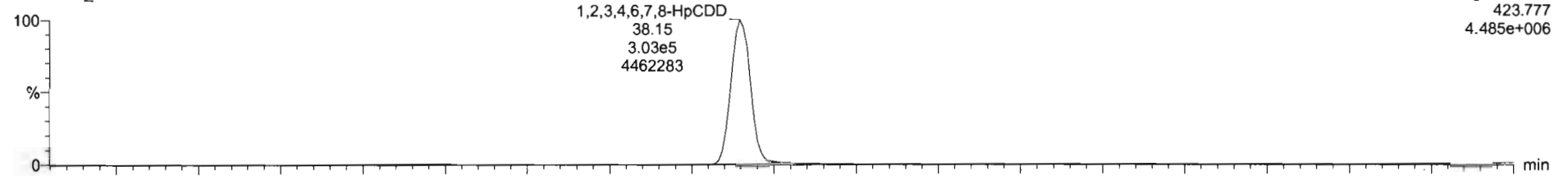
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

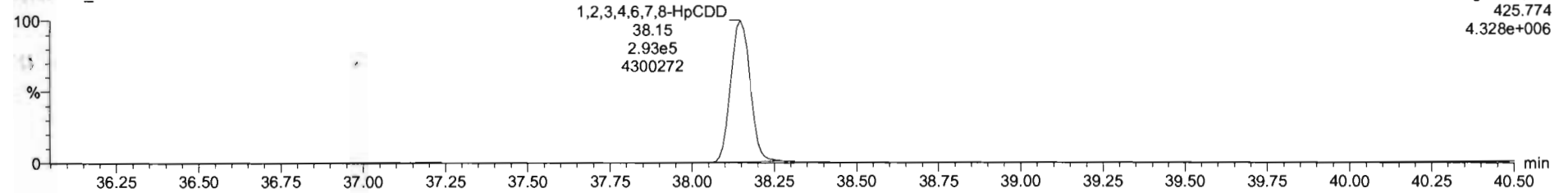
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**1,2,3,4,6,7,8-HpCDD**

2C1009R5\_4

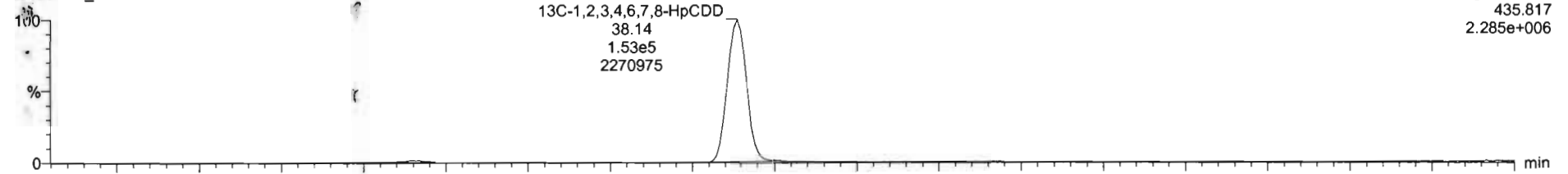


201009R5\_4

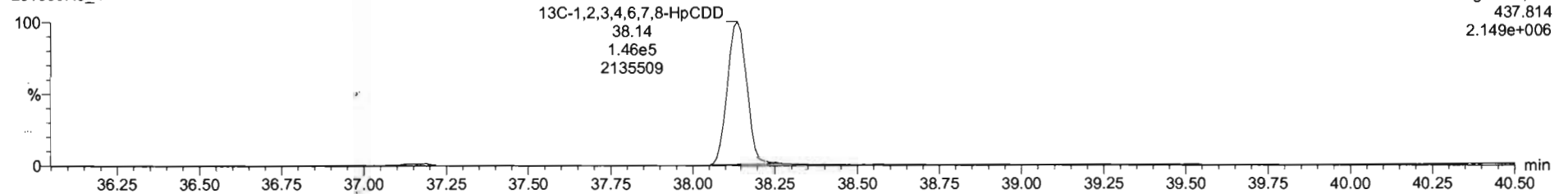


**13C-1,2,3,4,6,7,8-HpCDD**

201009R5\_4



201009R5\_4



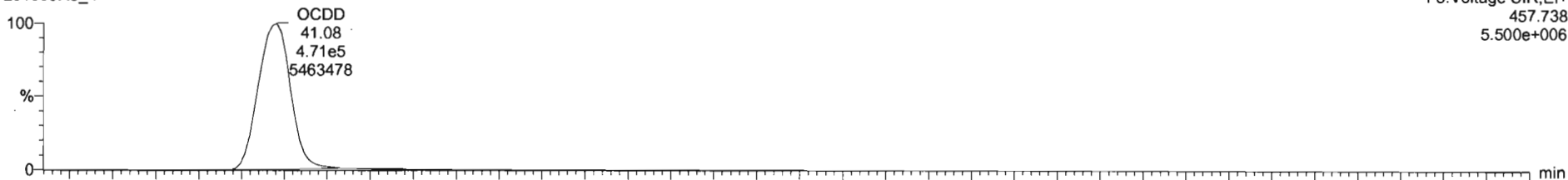
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
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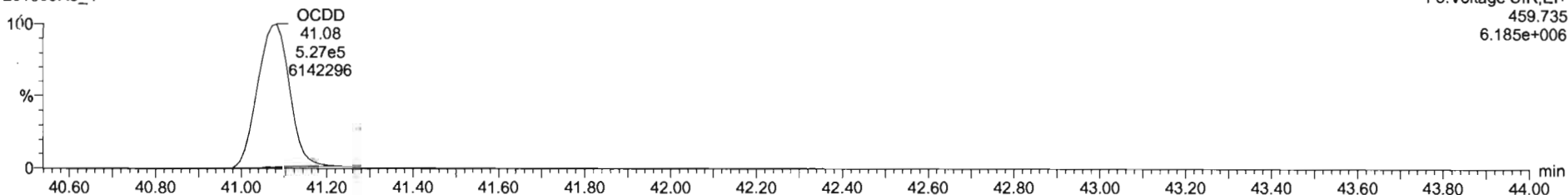
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OCDD

201009R5\_4

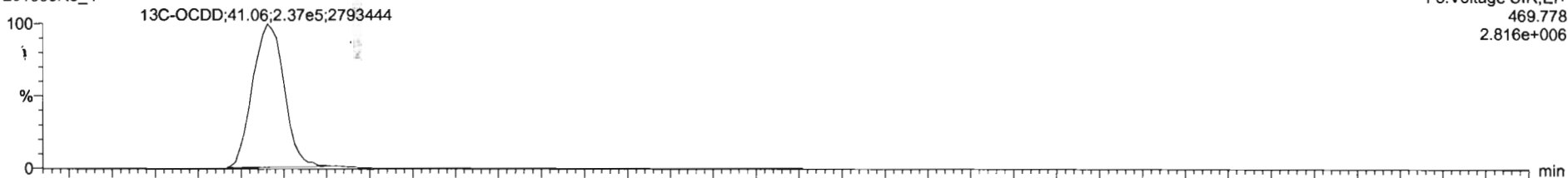


201009R5\_4

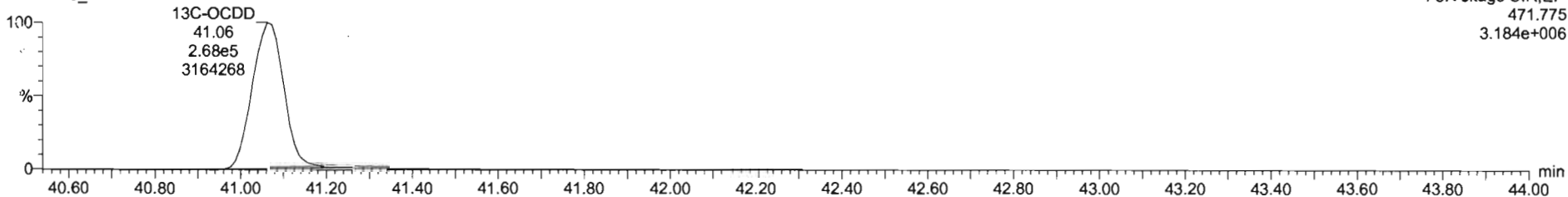


13C-OCDD

201009R5\_4



201009R5\_4



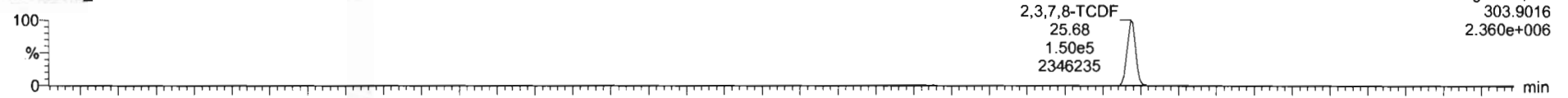
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

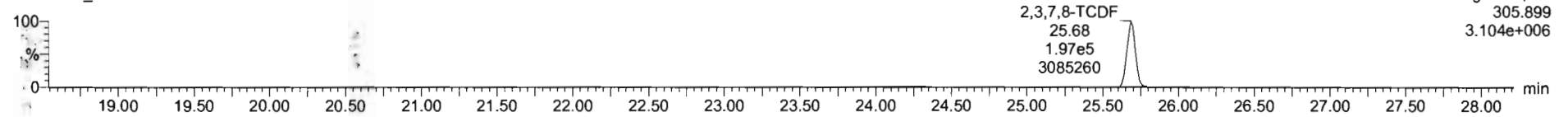
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**2,3,7,8-TCDF**

201009R5\_4

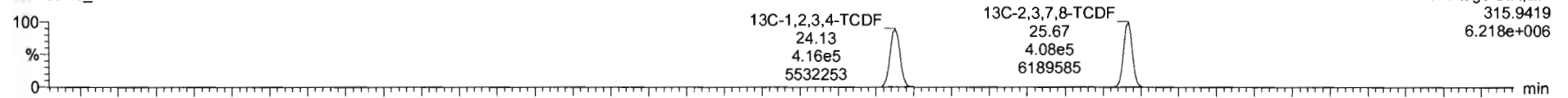


201009R5\_4

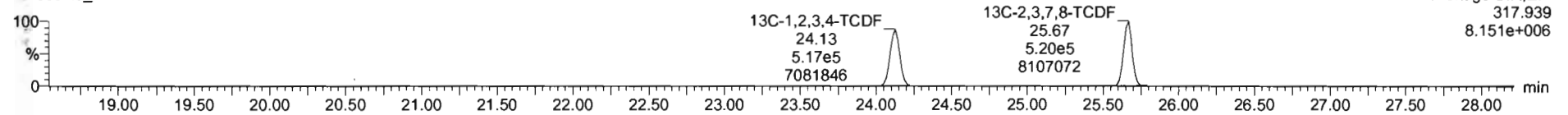


**13C-2,3,7,8-TCDF**

201009R5\_4

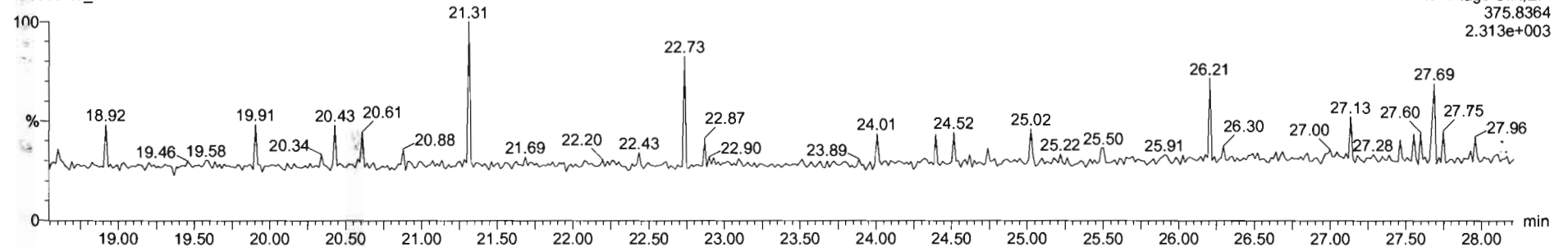


201009R5\_4



**DPE1**

201009R5\_4



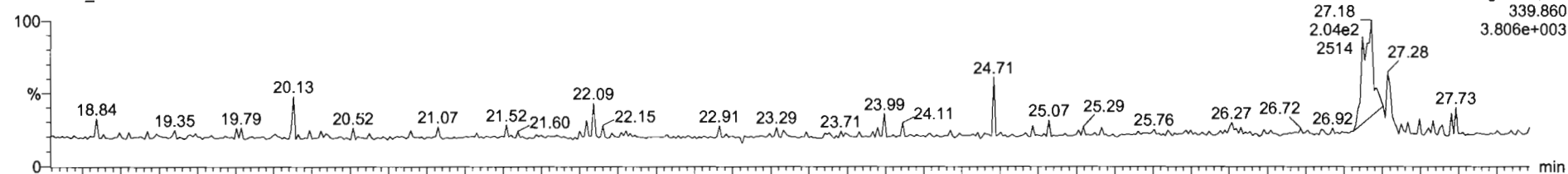
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

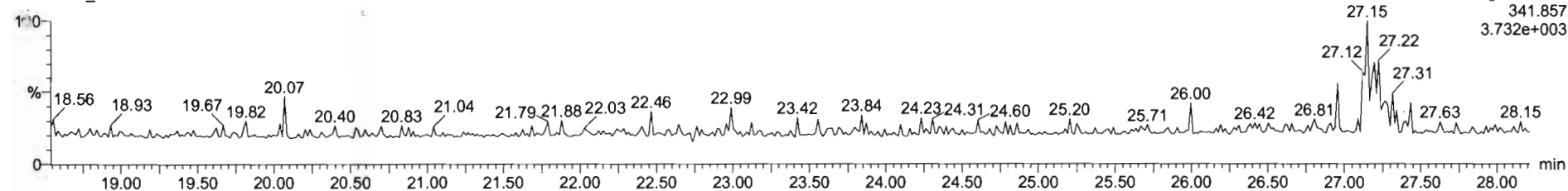
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201009R5\_4

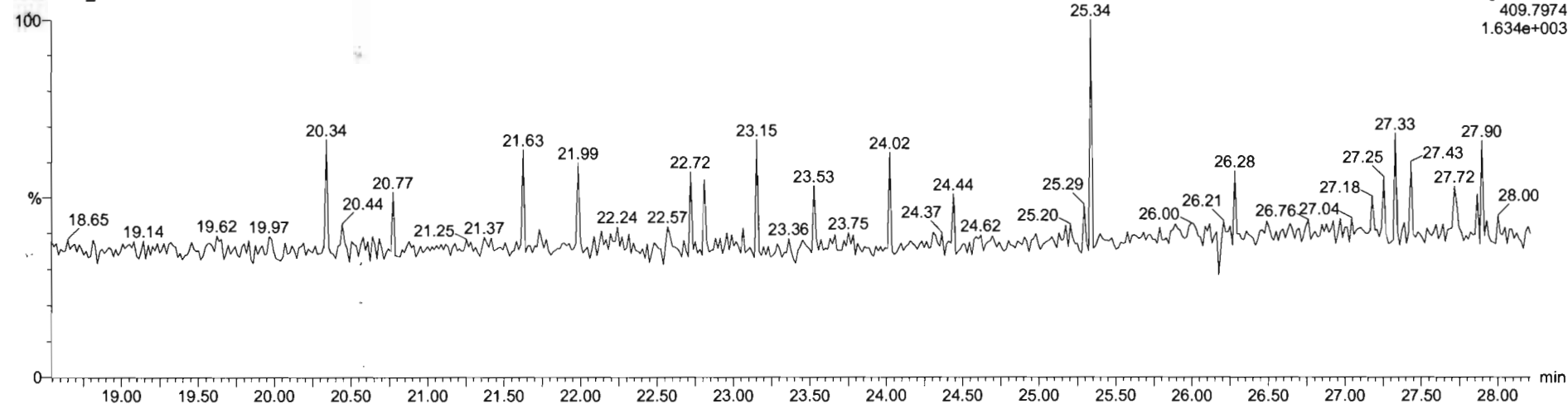


201009R5\_4



DPE6

201009R5\_4



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

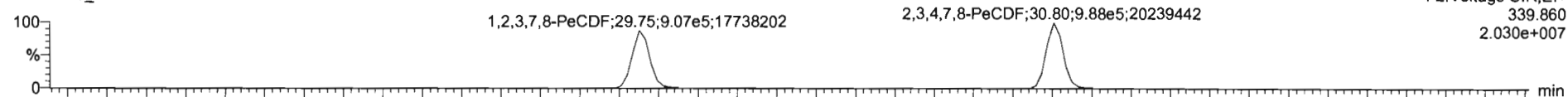
Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time

Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

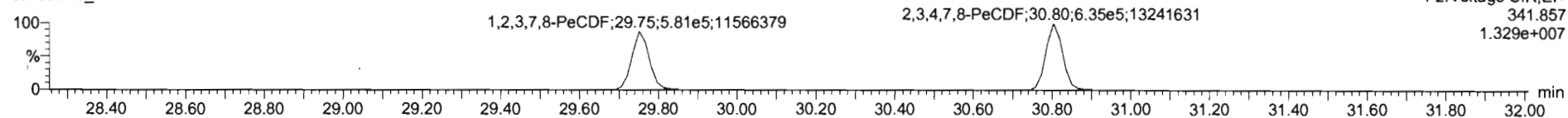
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**1,2,3,7,8-PeCDF**

201009R5\_4



201009R5\_4

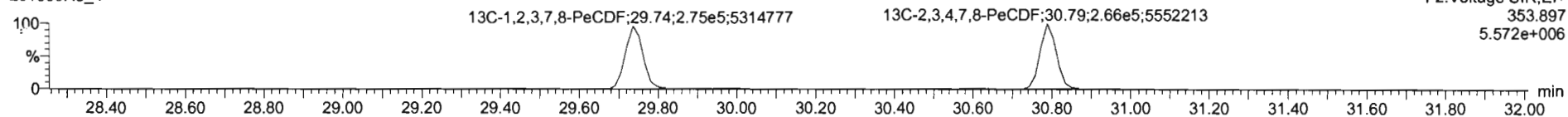


**13C-1,2,3,7,8-PeCDF**

201009R5\_4

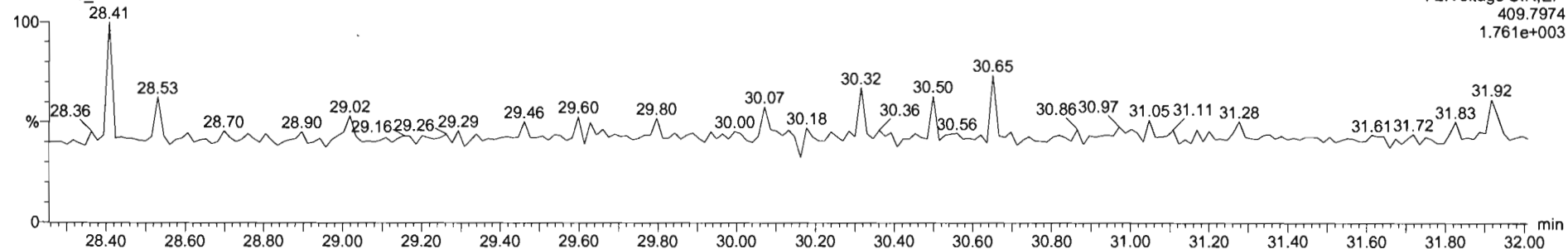


201009R5\_4



**DPE2**

201009R5\_4

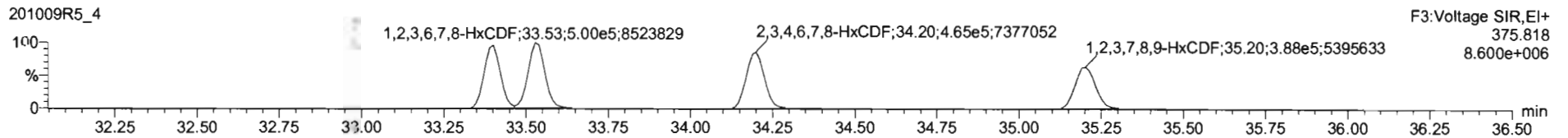
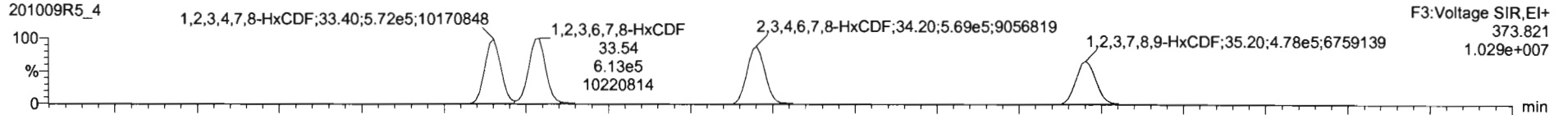


Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

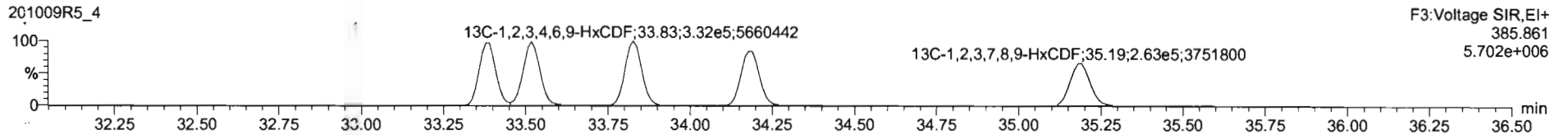
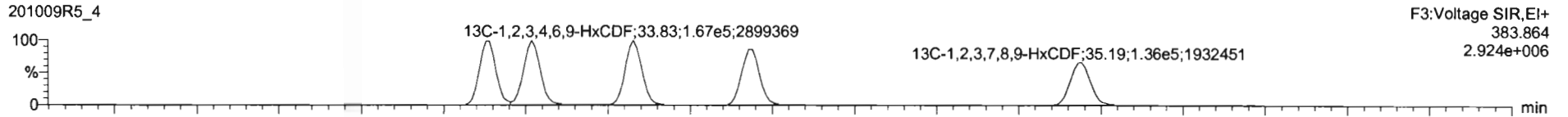
Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_4, Date: 09-Oct-2020, Time: 18:33:40, ID: ST201009R5\_4 1613 CS4 20F1106, Description: 1613 CS4 20F1106

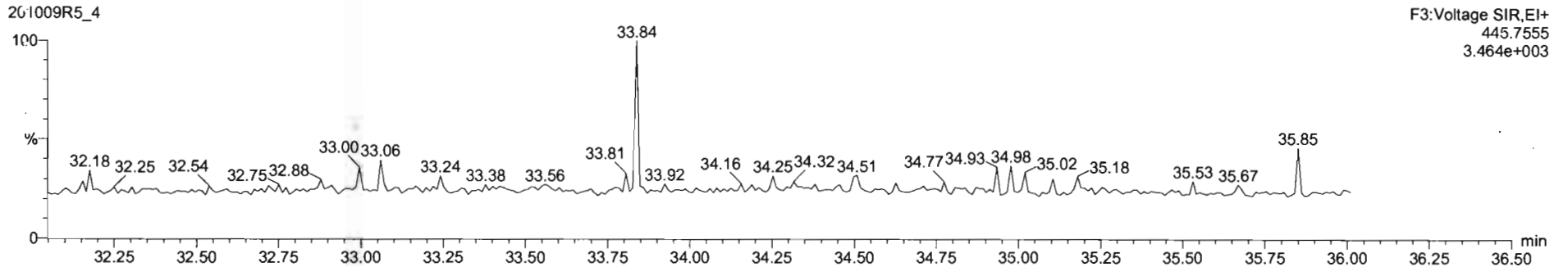
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



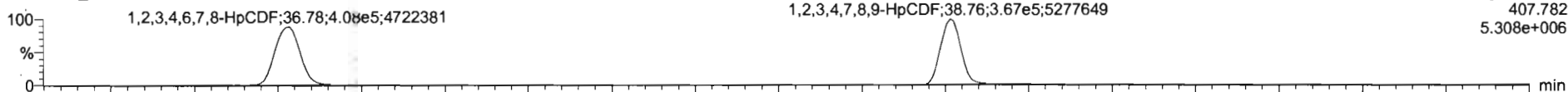
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

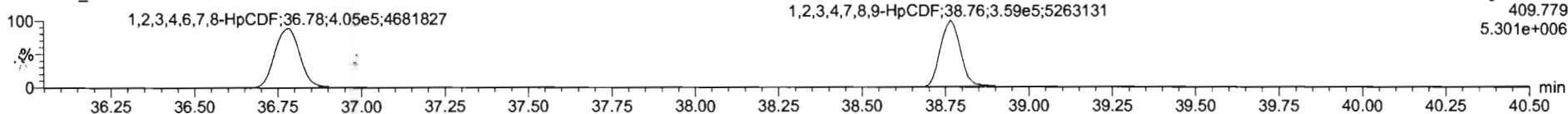
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**1,2,3,4,6,7,8-HpCDF**

201009R5\_4

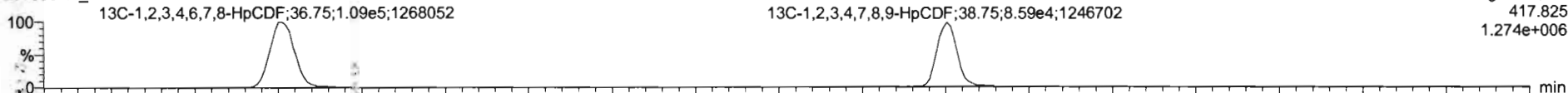


201009R5\_4

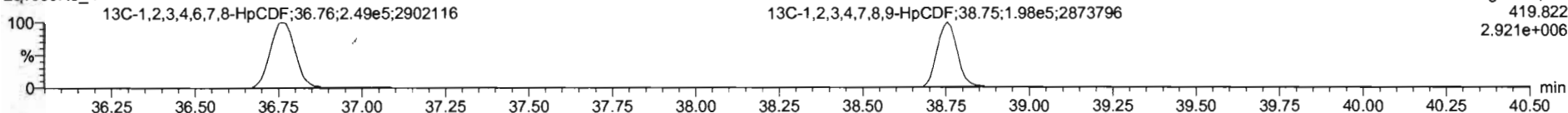


**13C-1,2,3,4,6,7,8-HpCDF**

201009R5\_4

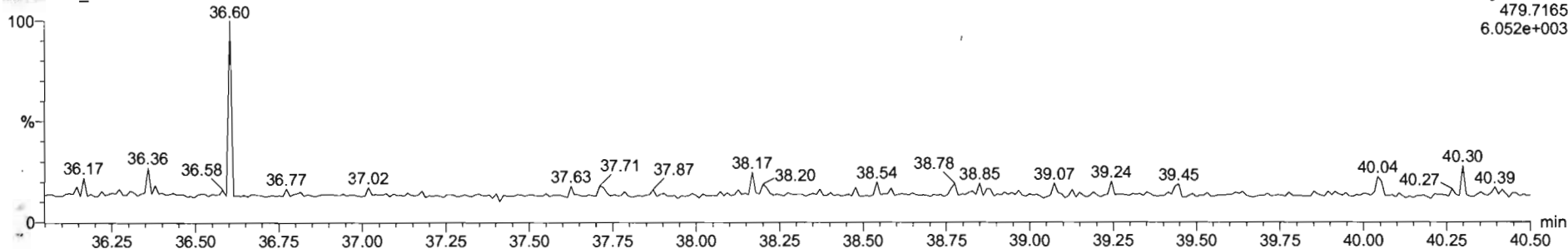


201009R5\_4



**DPE4**

201009R5\_4



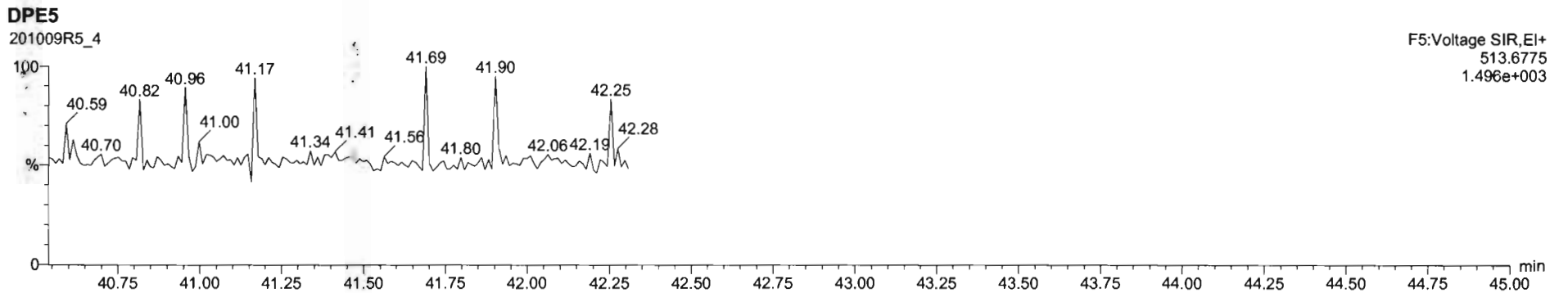
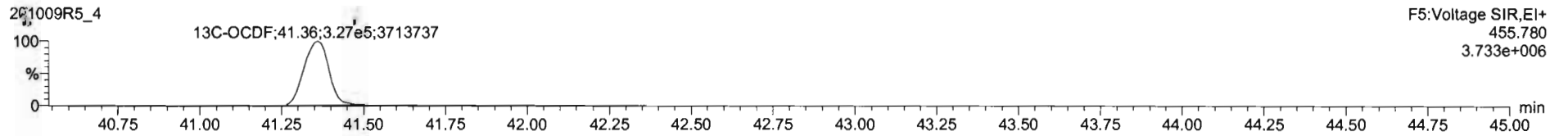
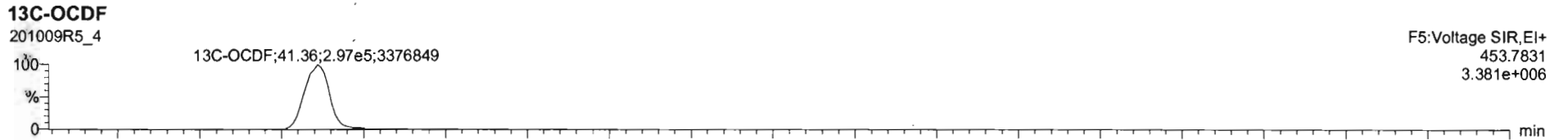
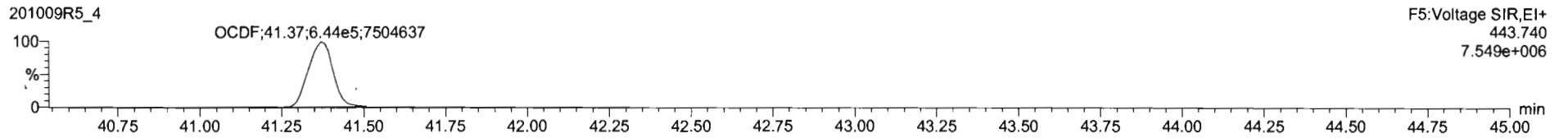
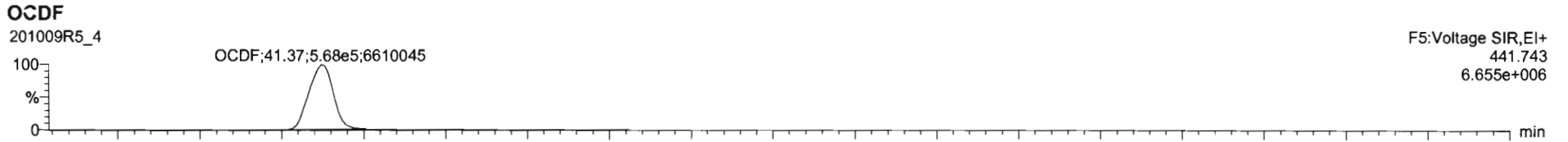


Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time

Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

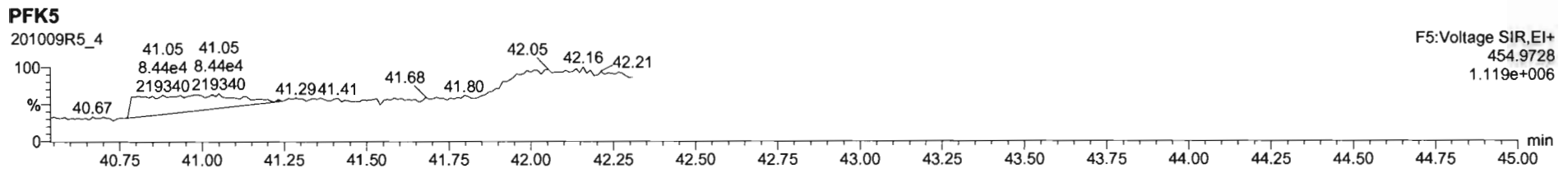
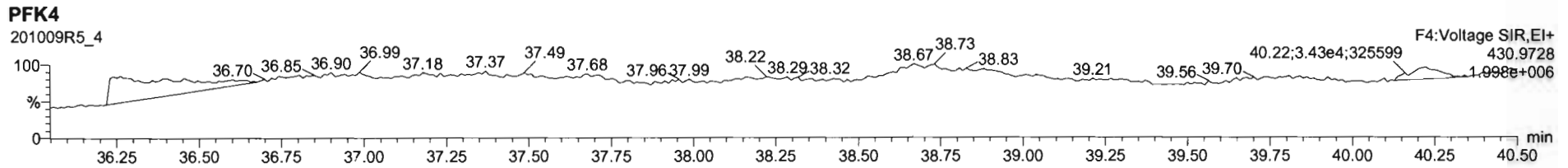
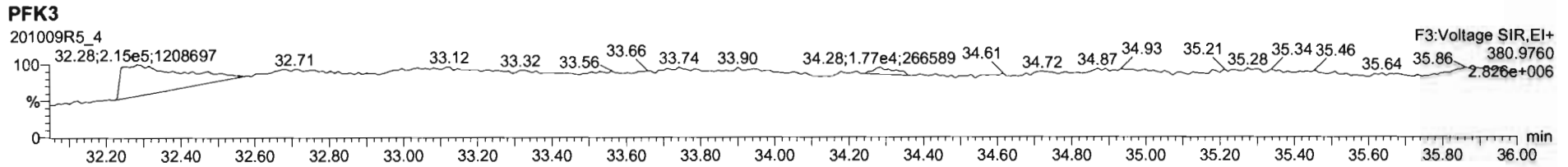
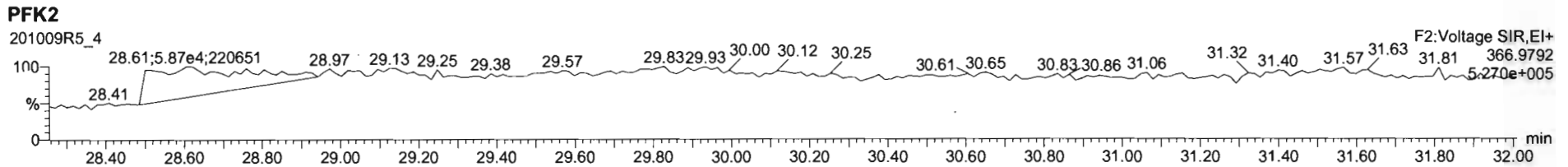
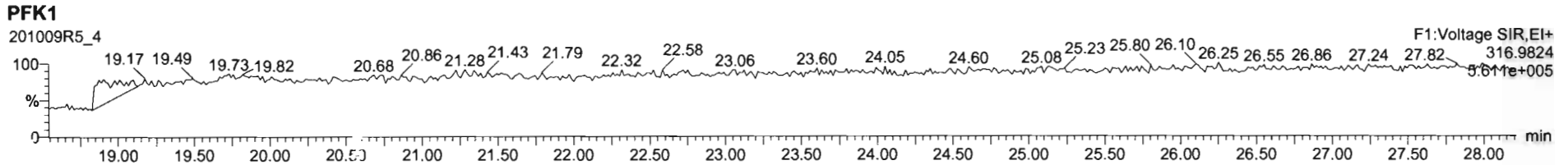
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Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

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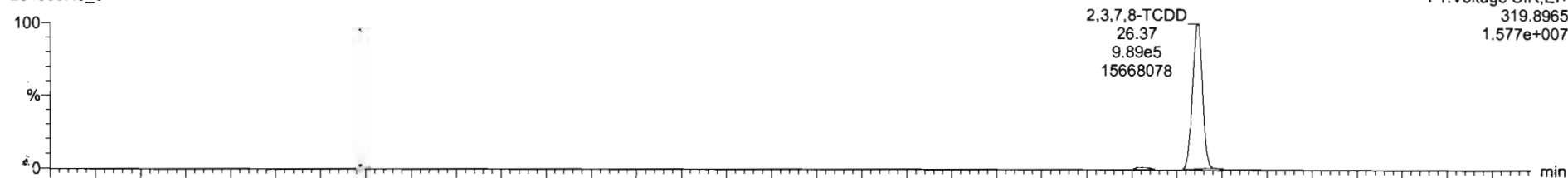
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

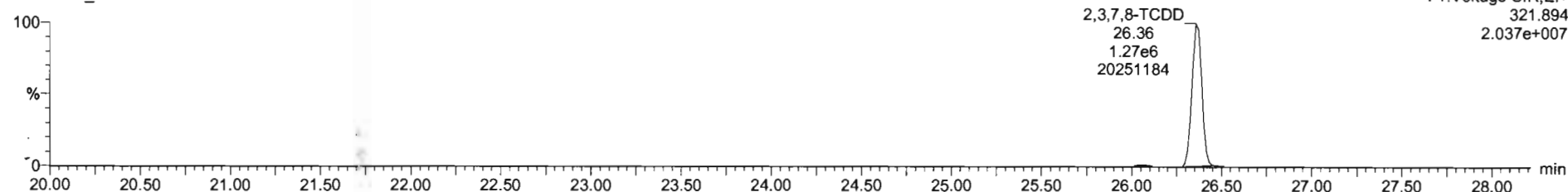
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**2,3,7,8-TCDD**

201009R5\_5

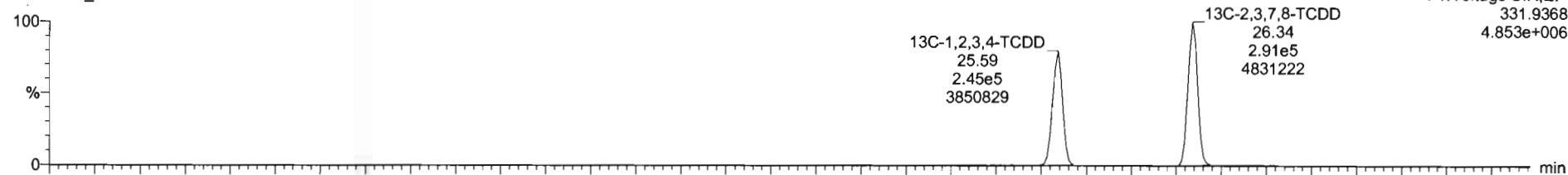


201009R5\_5

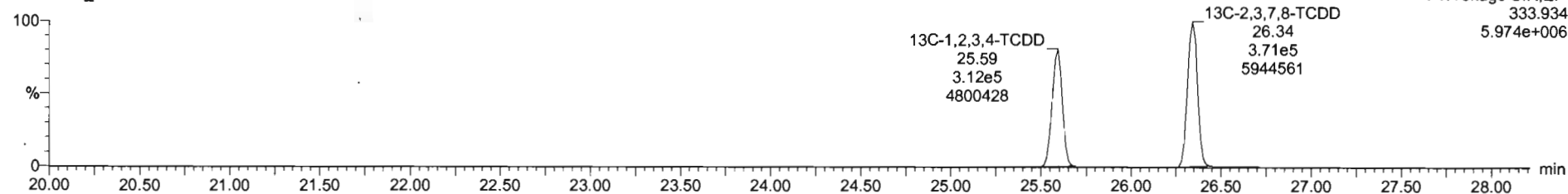


**13C-2,3,7,8-TCDD**

201009R5\_5



201009R5\_5



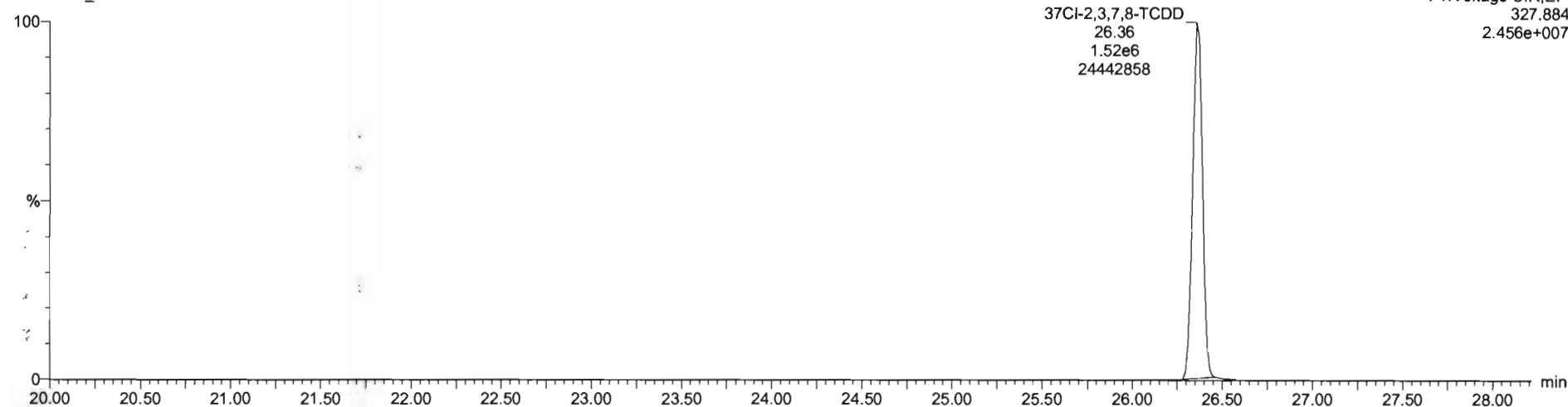
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_5, Date: 09-Oct-2020, Time: 19:17:24, ID: ST201009R5\_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107

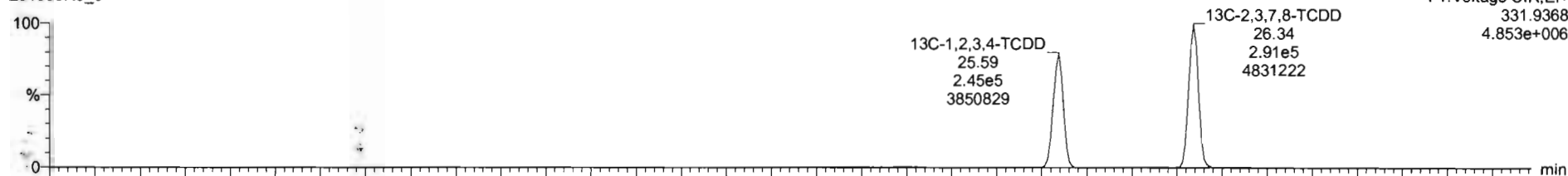
37Cl-2,3,7,8-TCDD

201009R5\_5

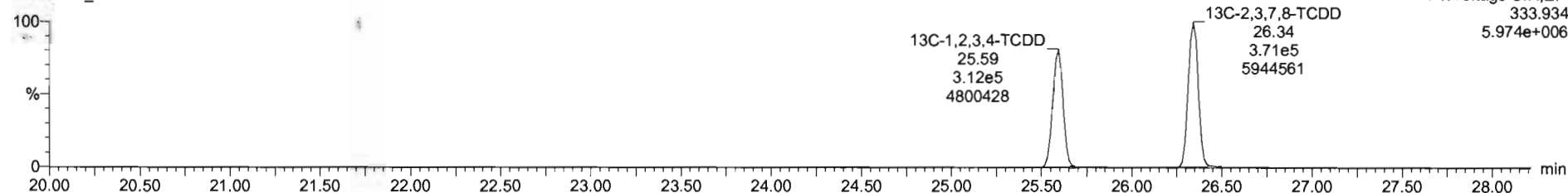


13C-1,2,3,4-TCDD

201009R5\_5



201009R5\_5



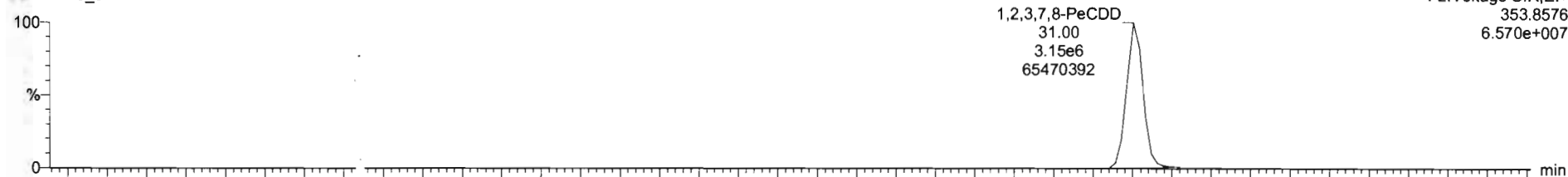
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_5, Date: 09-Oct-2020, Time: 19:17:24, ID: ST201009R5\_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107

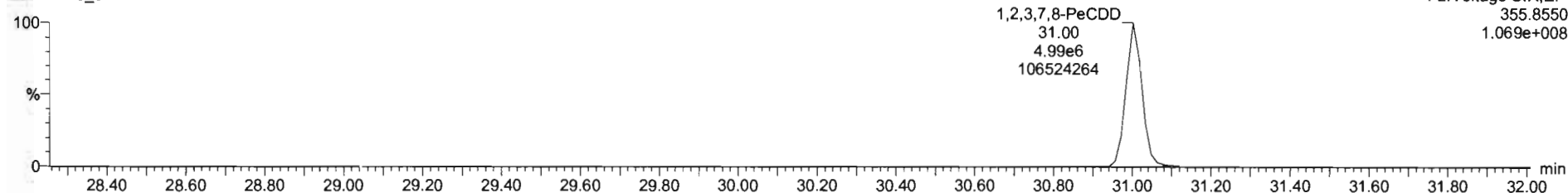
**1,2,3,7,8-PeCDD**

201009R5\_5



F2:Voltage SIR,EI+  
353.8576  
6.570e+007

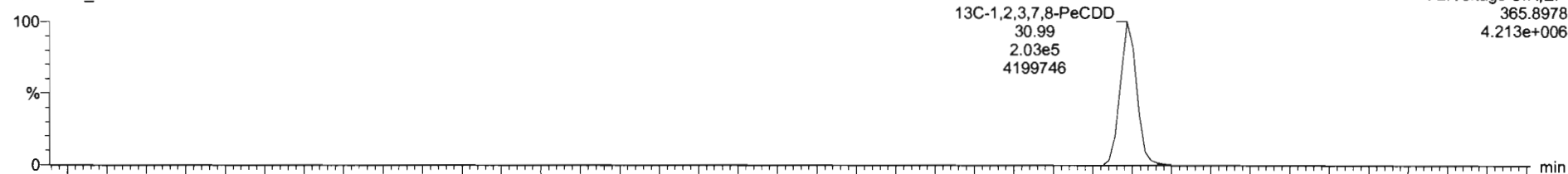
201009R5\_5



F2:Voltage SIR,EI+  
355.8550  
1.069e+008

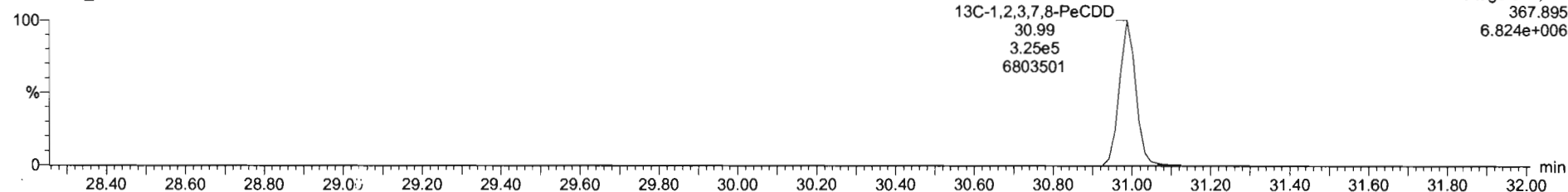
**13C-1,2,3,7,8-PeCDD**

201009R5\_5



F2:Voltage SIR,EI+  
365.8978  
4.213e+006

201009R5\_5



F2:Voltage SIR,EI+  
367.895  
6.824e+006

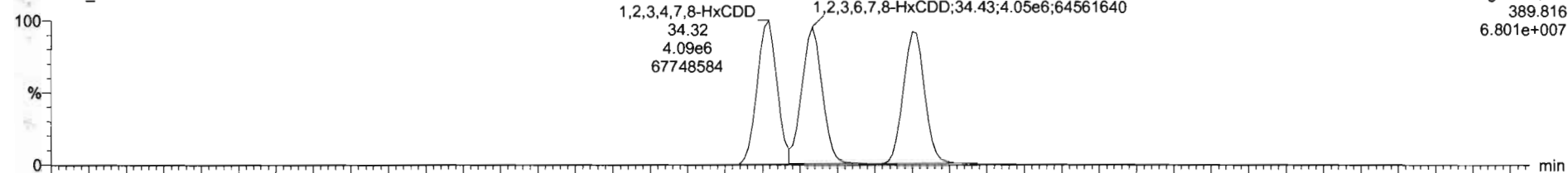
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

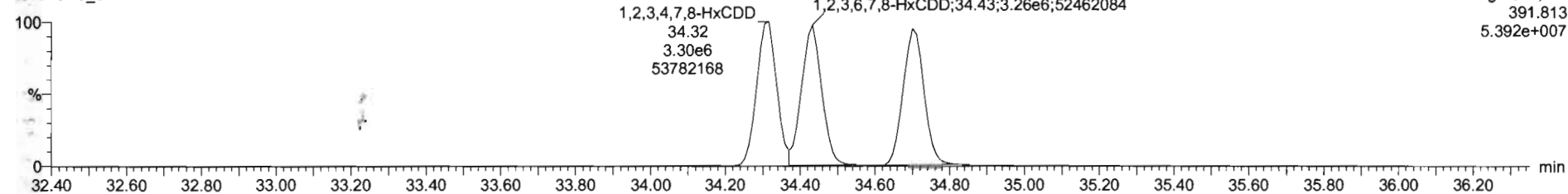
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1,2,3,4,7,8-HxCDD

201009R5\_5

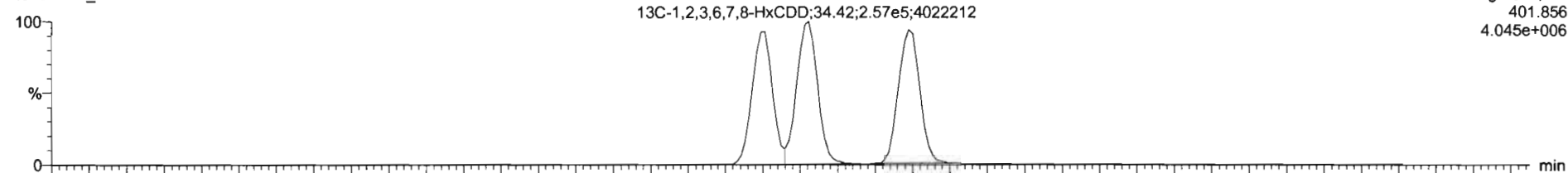


201009R5\_5

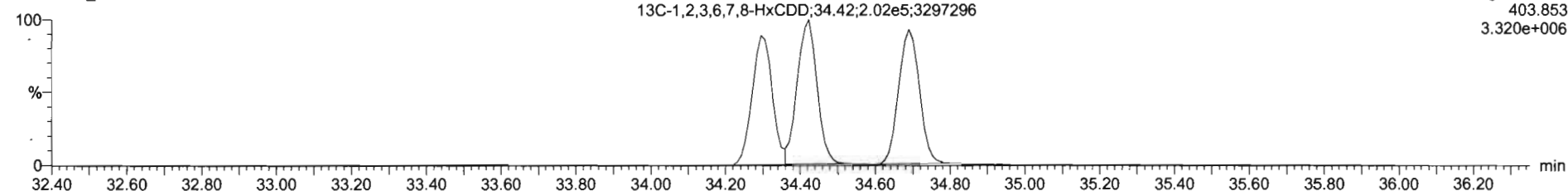


13C-1,2,3,4,7,8-HxCDD

201009R5\_5



201009R5\_5



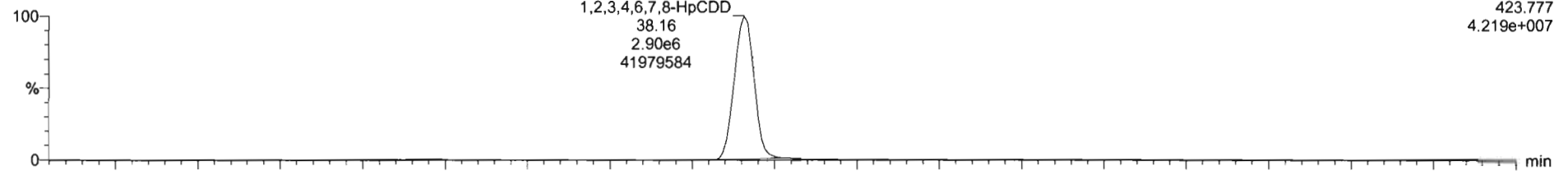
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

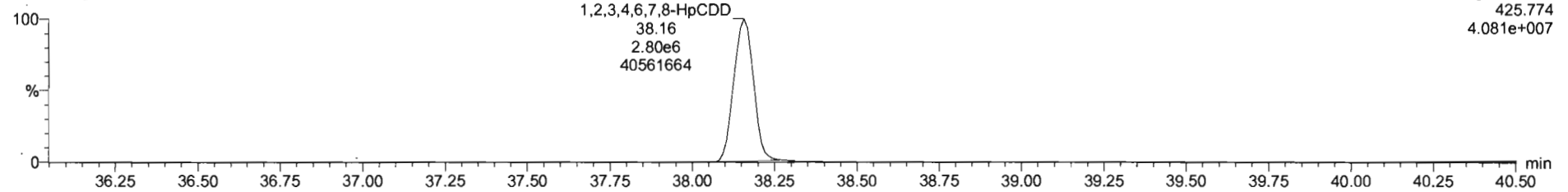
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1,2,3,4,6,7,8-HpCDD

201009R5\_5

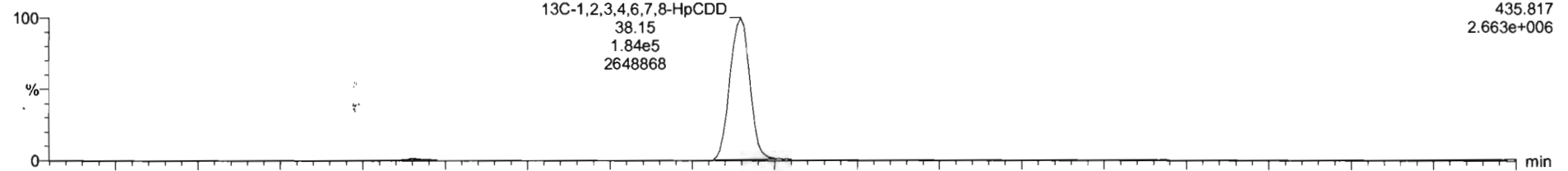


201009R5\_5

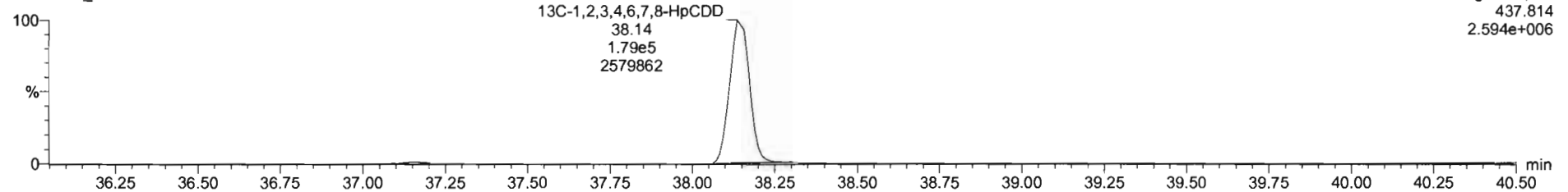


13C-1,2,3,4,6,7,8-HpCDD

201009R5\_5



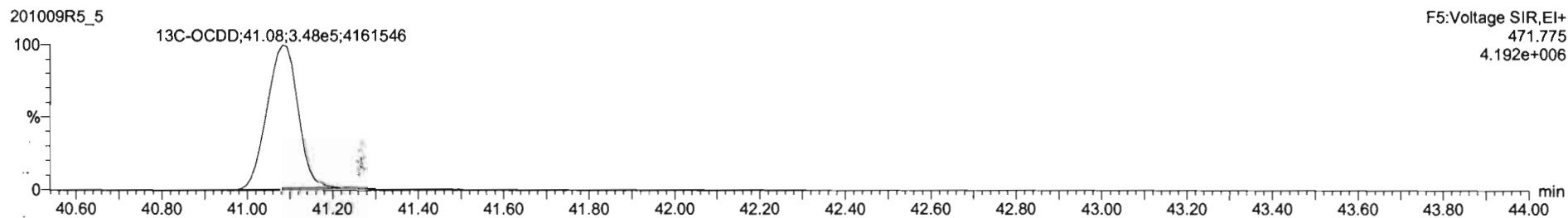
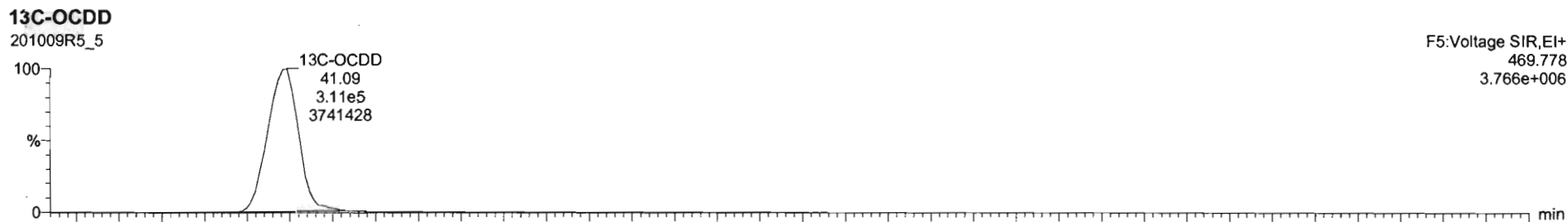
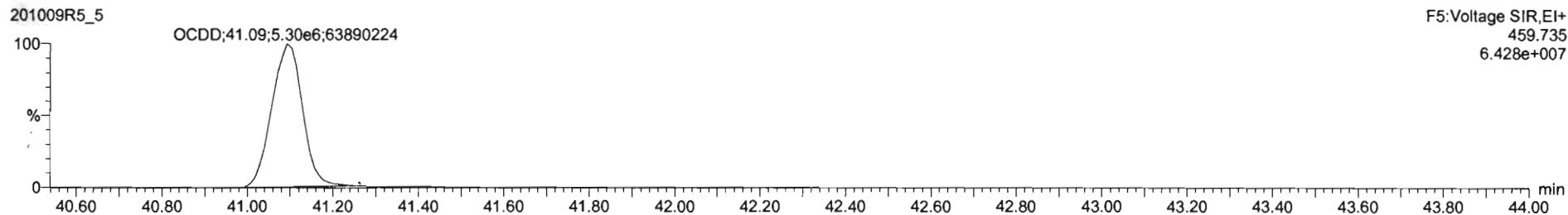
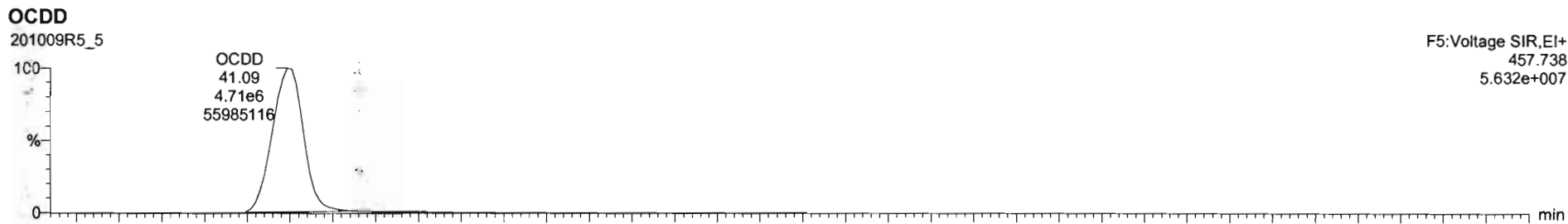
201009R5\_5



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

Name: 201009R5\_5, Date: 09-Oct-2020, Time: 19:17:24, ID: ST201009R5\_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107





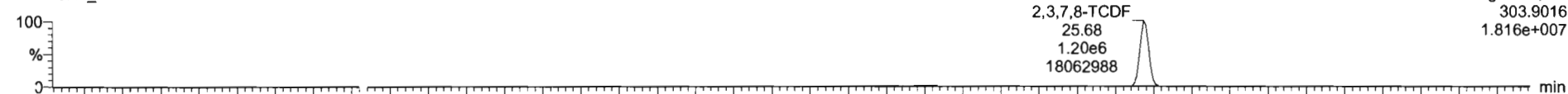
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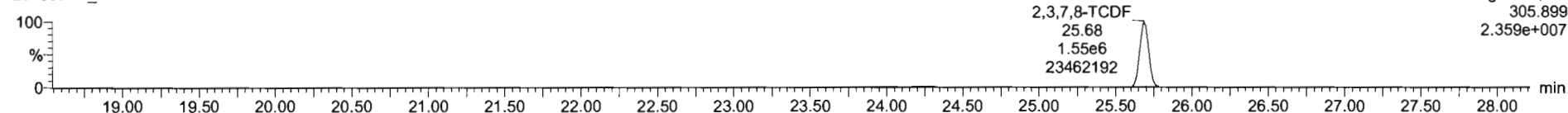
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### 2,3,7,8-TCDF

201009R5\_5

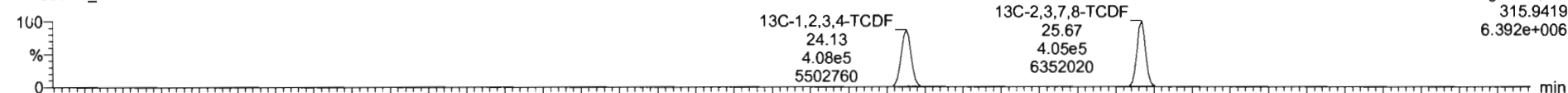


201009R5\_5

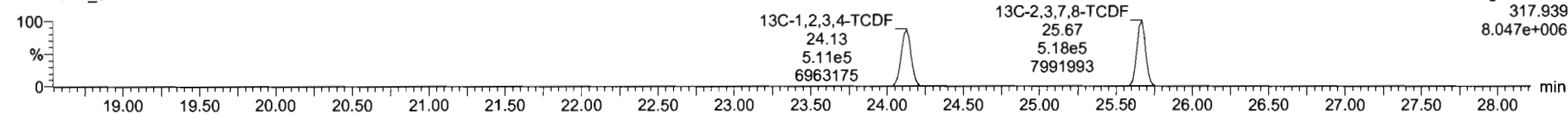


### <sup>13</sup>C-2,3,7,8-TCDF

201009R5\_5

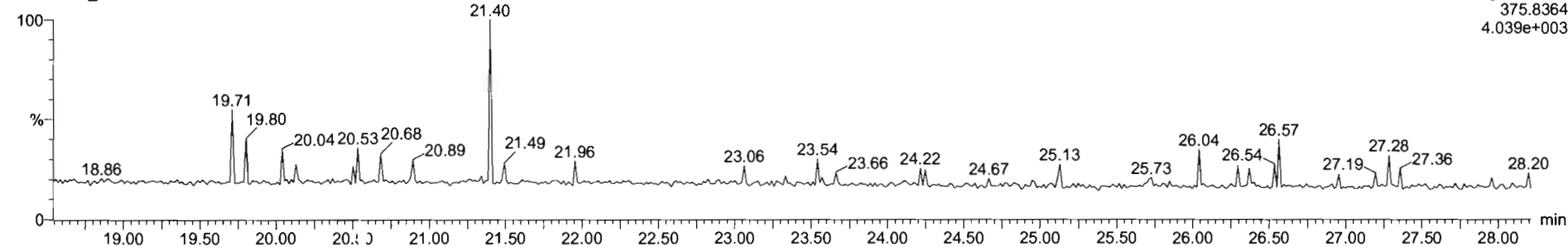


201009R5\_5



### DPE1

201009R5\_5



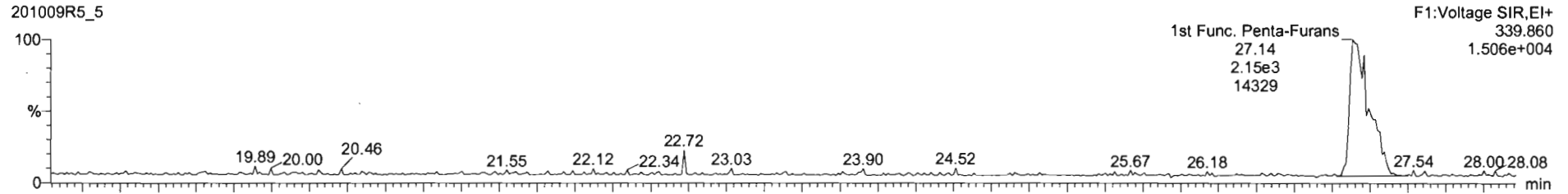
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

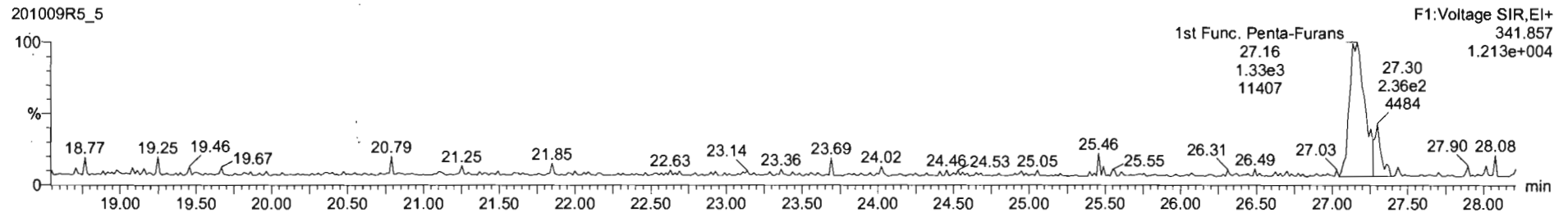
Name: 201009R5\_5, Date: 09-Oct-2020, Time: 19:17:24, ID: ST201009R5\_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107

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201009R5\_5

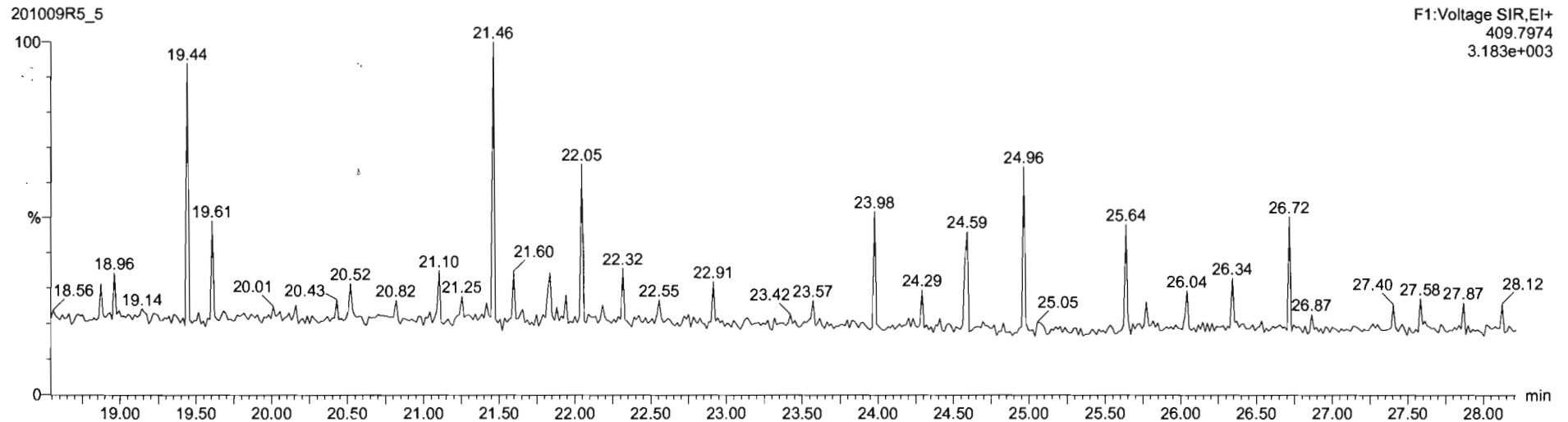


201009R5\_5



DPE6

201009R5\_5



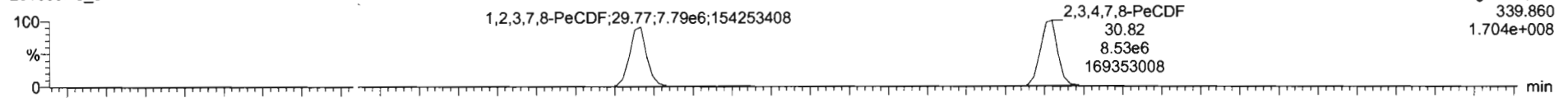
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

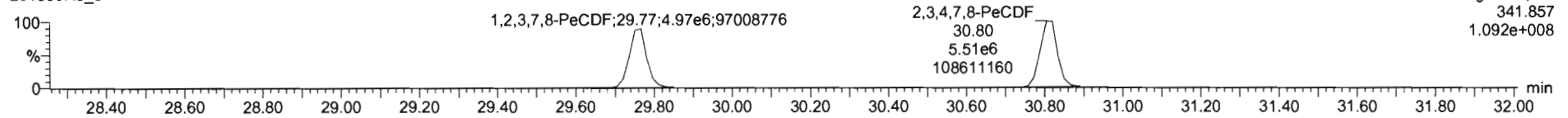
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**1,2,3,7,8-PeCDF**

201009R5\_5

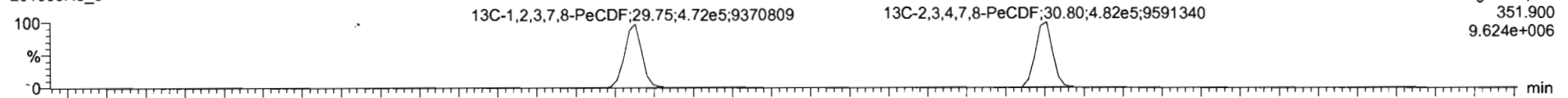


201009R5\_5

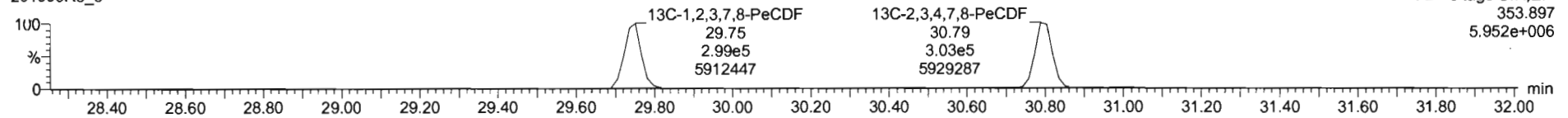


**13C-1,2,3,7,8-PeCDF**

201009R5\_5

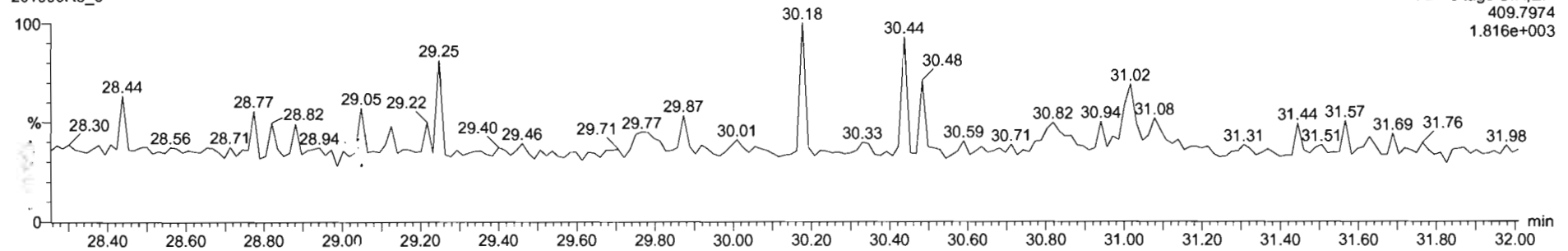


201009R5\_5



**DPE2**

201009R5\_5



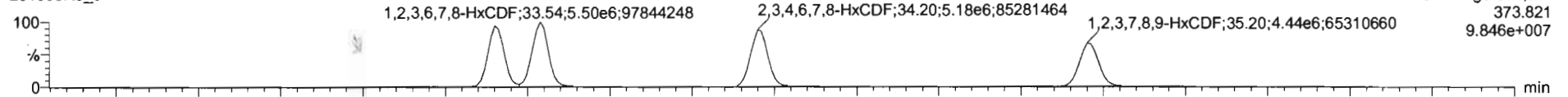
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

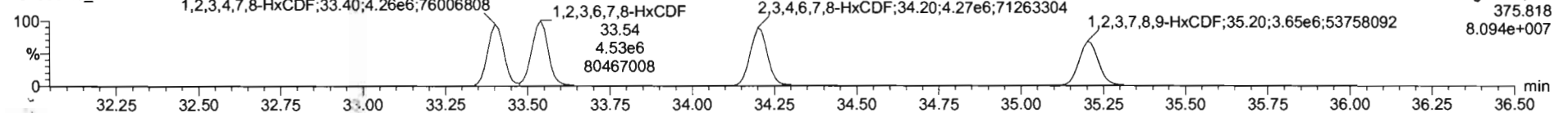
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1,2,3,4,7,8-HxCDF

201009R5\_5

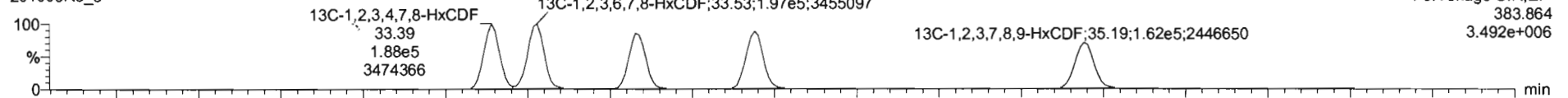


201009R5\_5

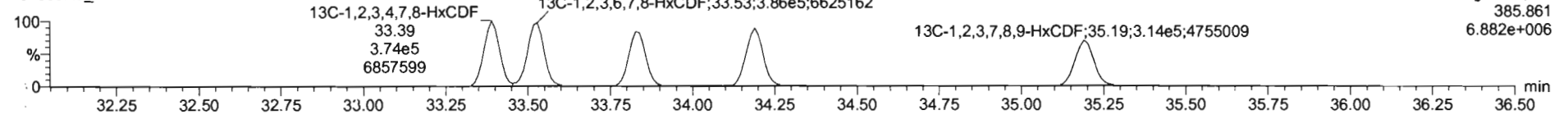


13C-1,2,3,4,7,8-HxCDF

201009R5\_5

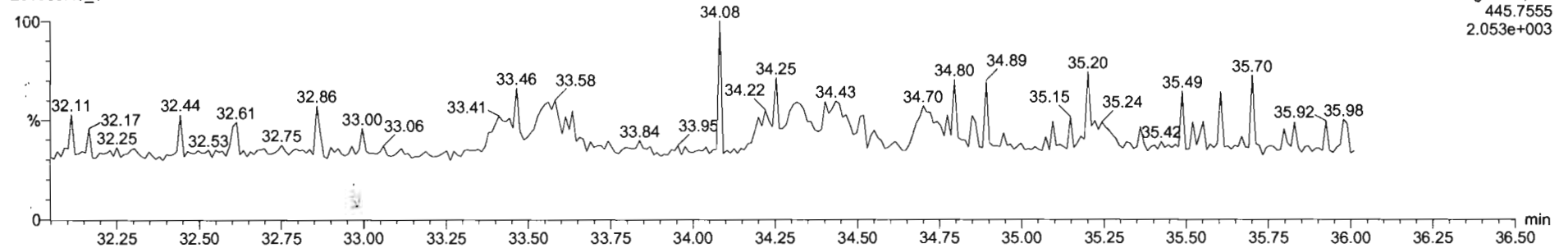


201009R5\_5



DPE3

201009R5\_5



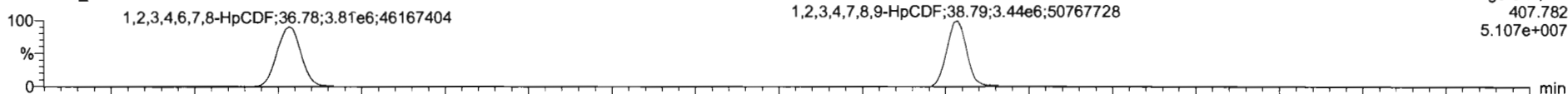
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Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
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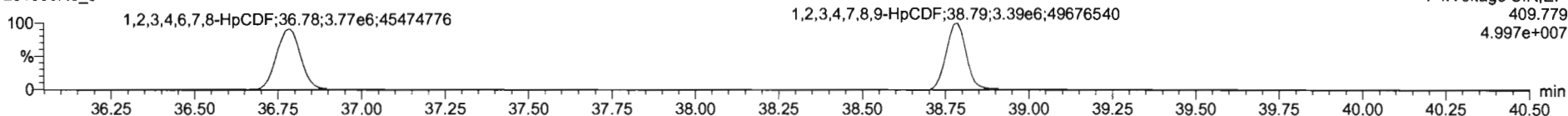
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1,2,3,4,6,7,8-HpCDF

201009R5\_5

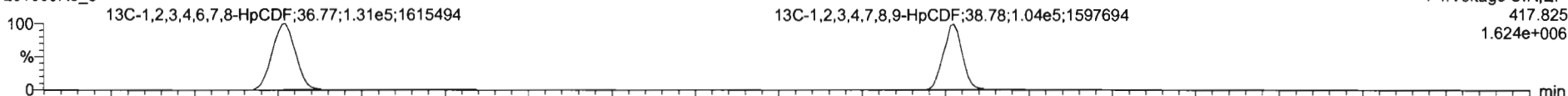


201009R5\_5

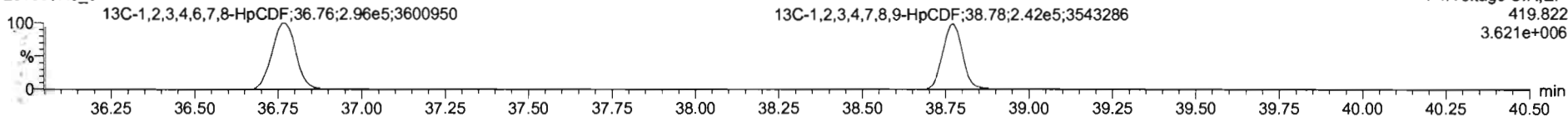


13C-1,2,3,4,6,7,8-HpCDF

201009R5\_5

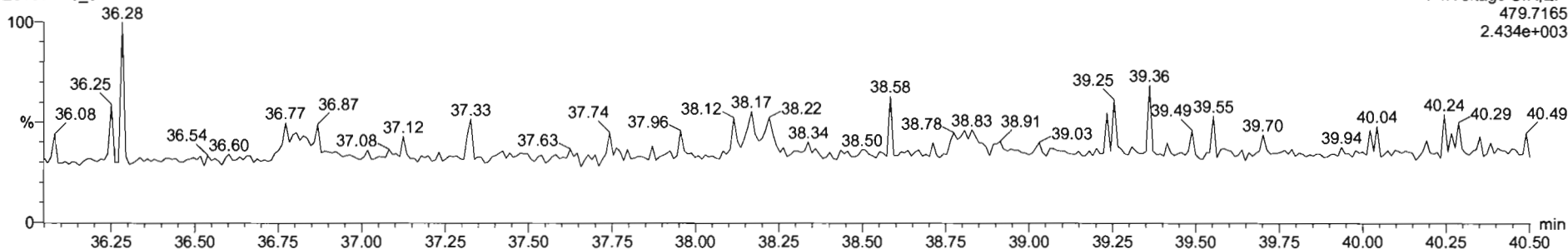


201009R5\_5



DPE4

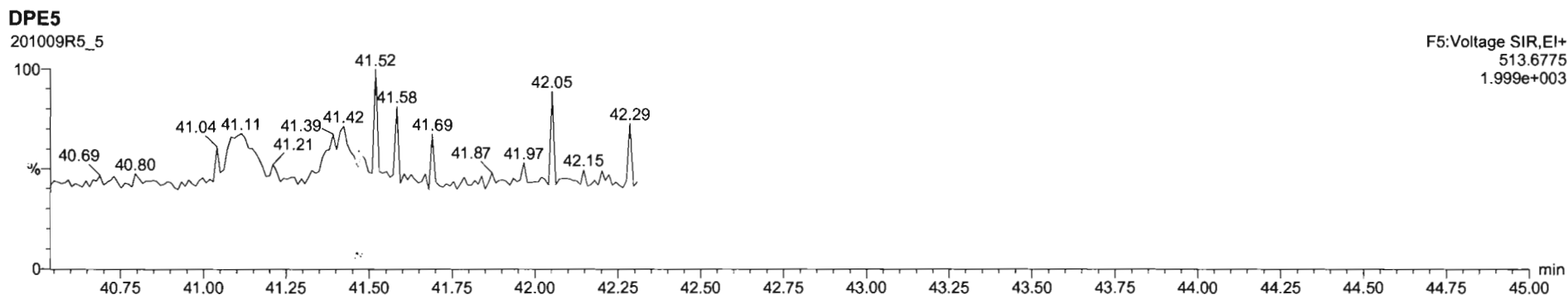
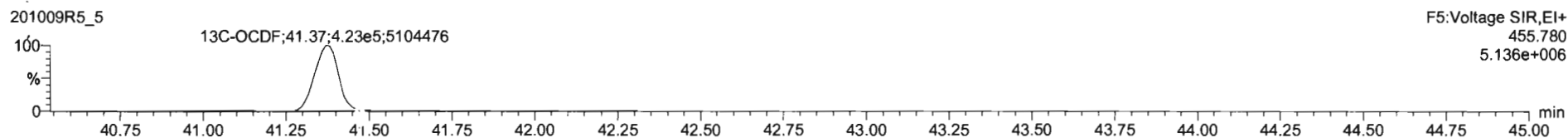
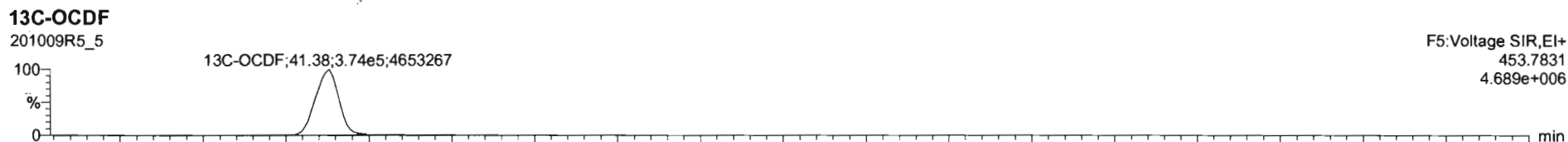
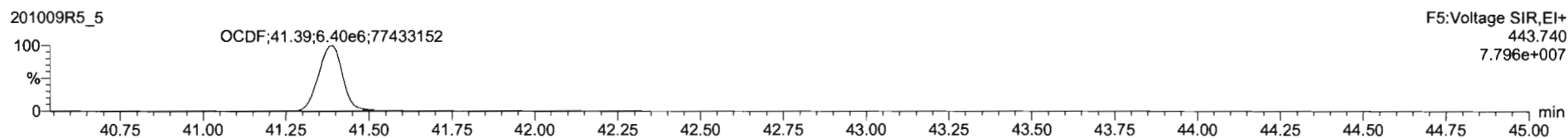
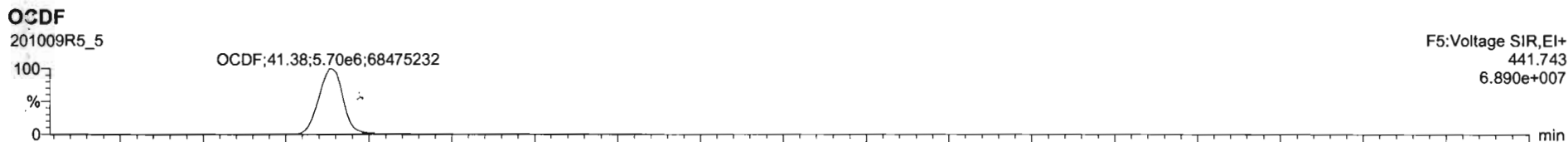
201009R5\_5



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-CRV.qld

Last Altered: Monday, October 12, 2020 11:36:18 Pacific Daylight Time  
Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

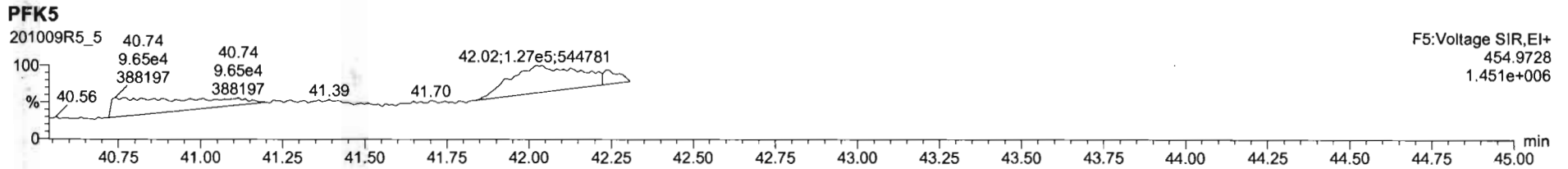
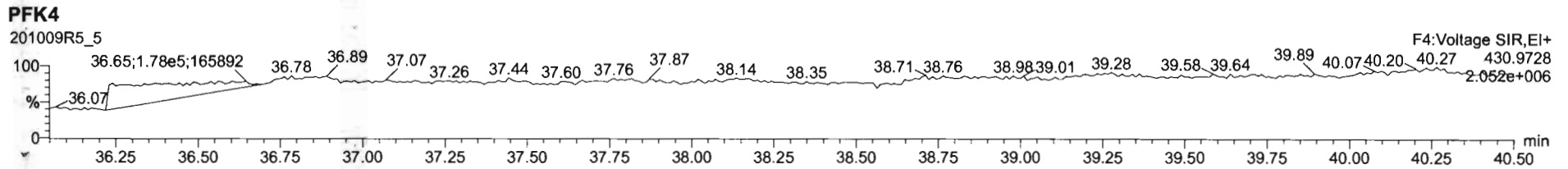
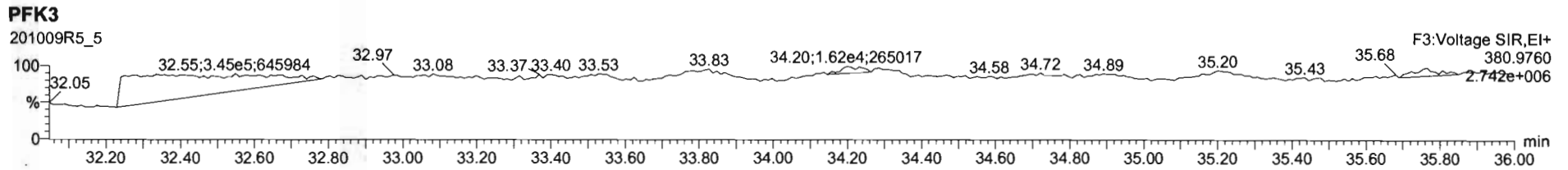
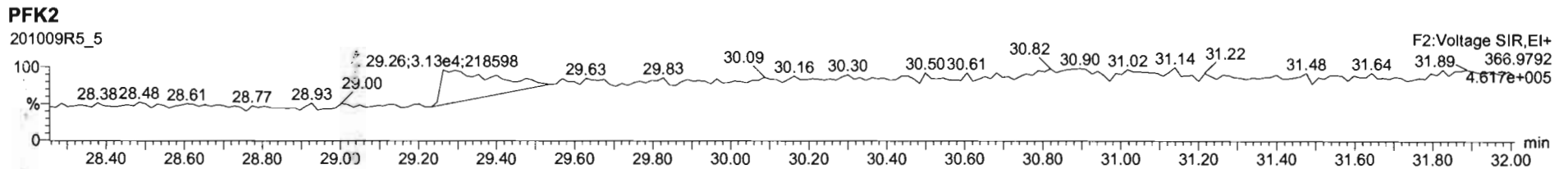
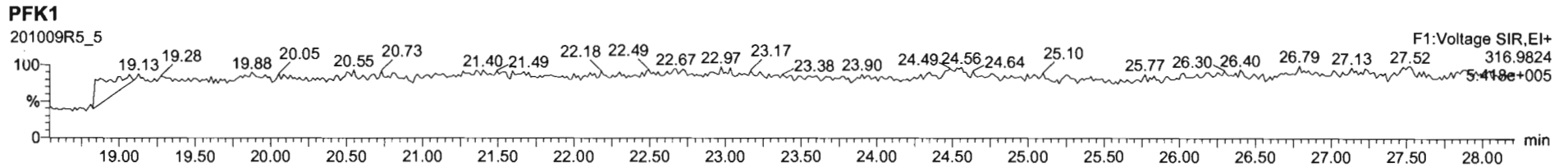
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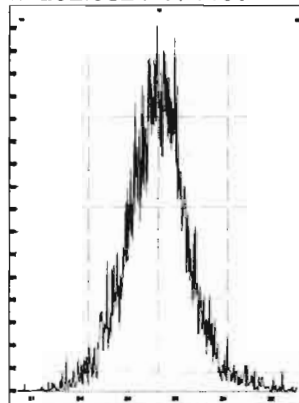
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Printed: Monday, October 12, 2020 11:54:43 Pacific Daylight Time

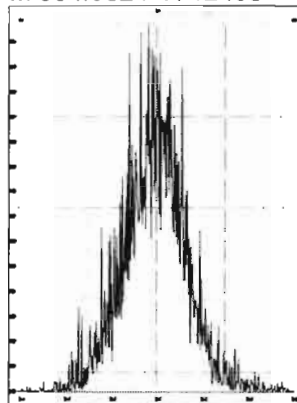
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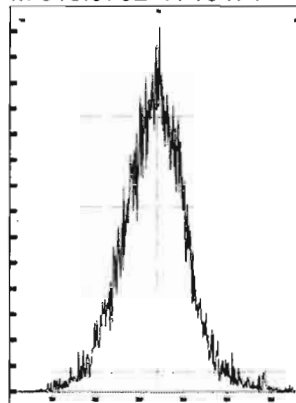
M 292.9824 R 11392



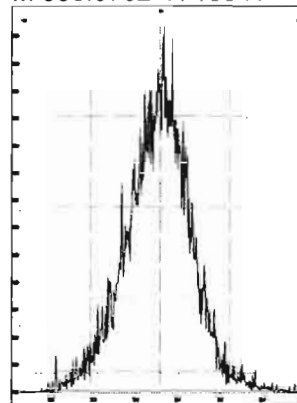
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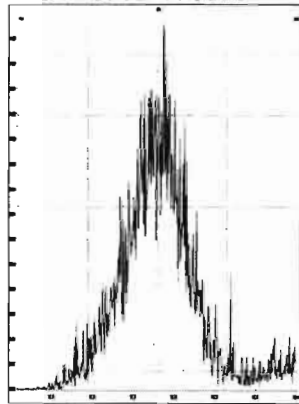
M 318.9792 R 10471



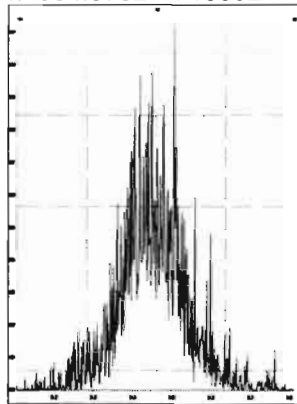
M 330.9792 R 10041



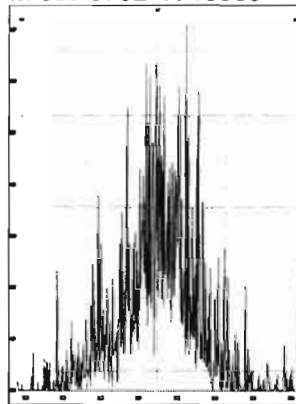
M 342.9792 R 9995 *ok*



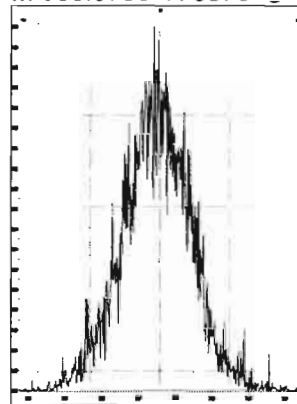
M 354.9792 R 13392



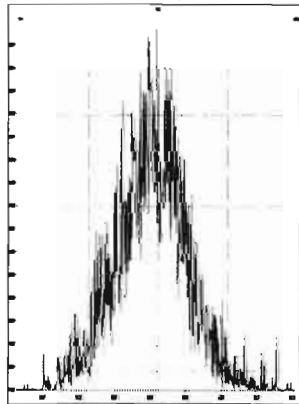
M 366.9792 R 15389



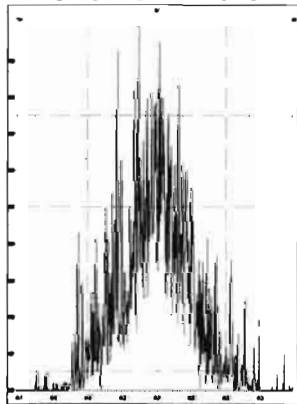
M 380.9760 R 9670 *ok*



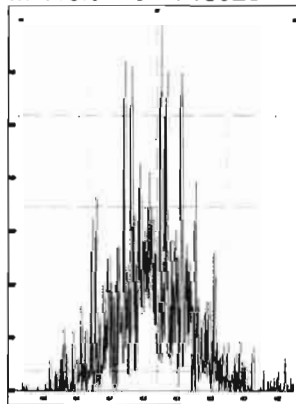
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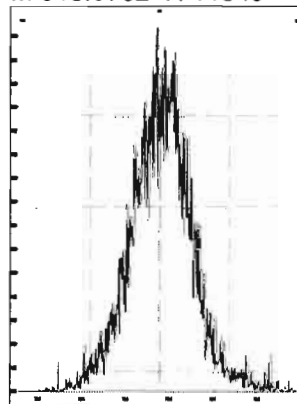
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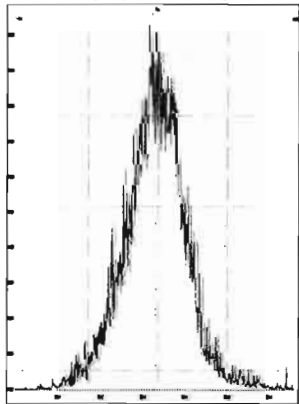
M 416.9760 R 18926



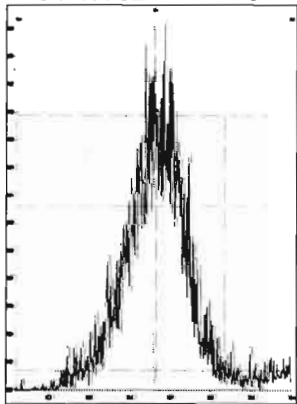
M 318.9792 R 11549



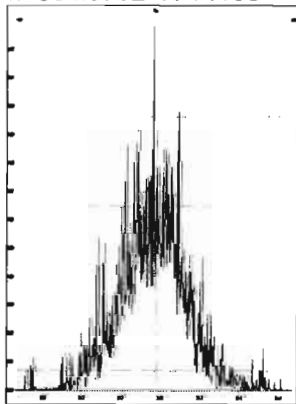
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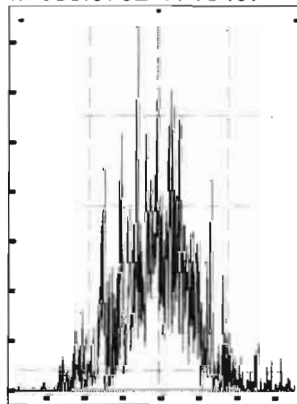
M 342.9792 R 11670



M 354.9792 R 14108

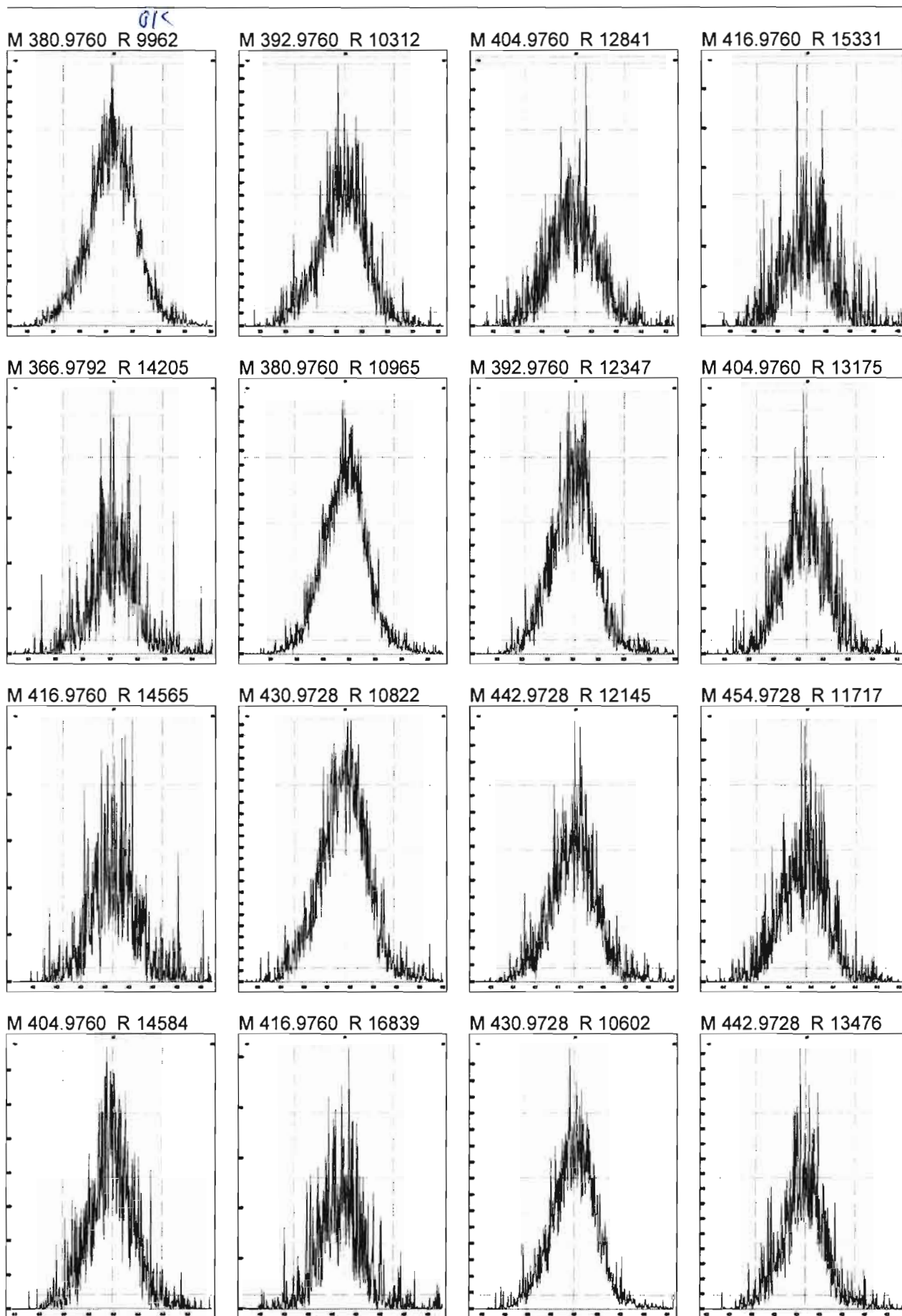


M 366.9792 R 15497



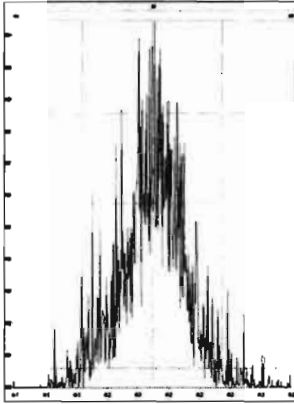


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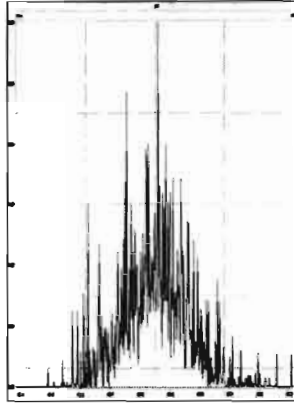


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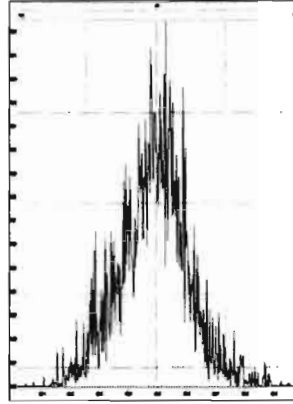
M 454.9728 R 13259



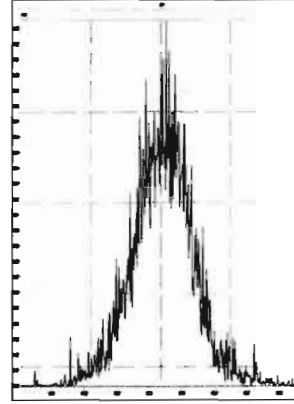
M 466.9728 R 15053



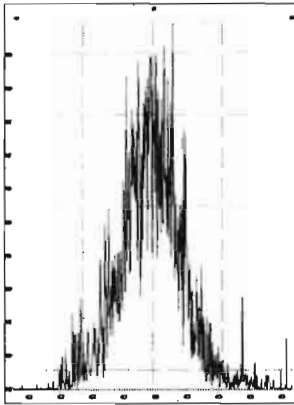
M 480.9696 R 12251



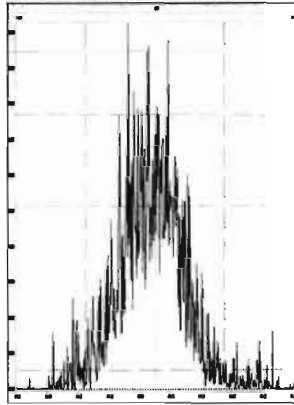
M 430.9728 R 11185



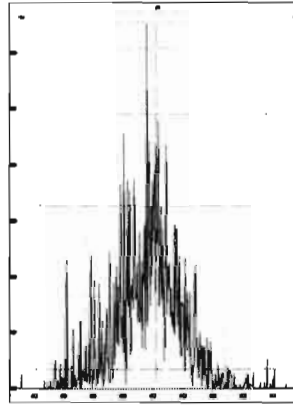
M 442.9728 R 13175



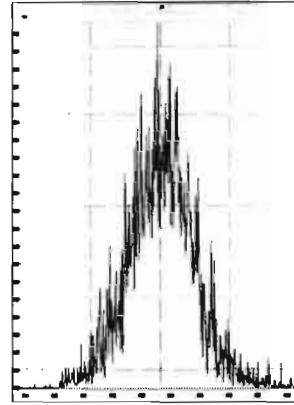
M 454.9728 R 12886



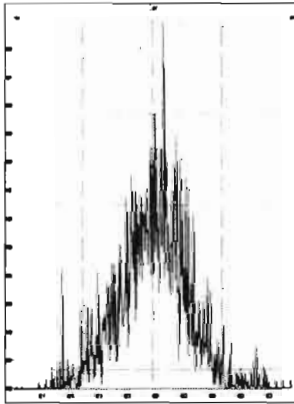
M 466.9728 R 18399



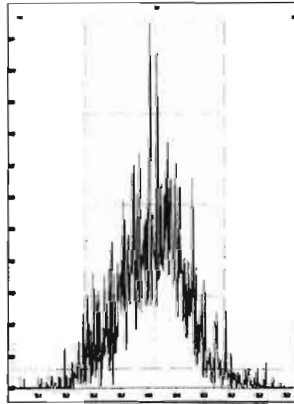
M 480.9696 R 11546



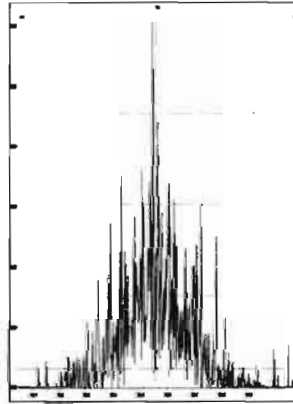
M 492.9696 R 12728



M 504.9696 R 13407



M 516.9697 R 17704



Dataset: U:\VG12.PRO\Results\201009R5\201009R5-7.qld

Last Altered: Monday, October 12, 2020 15:34:31 Pacific Daylight Time

Printed: Monday, October 12, 2020 15:36:32 Pacific Daylight Time

HN 10/12/2020

GPB 10/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

Name: 201009R5\_7, Date: 09-Oct-2020, Time: 20:44:53, ID: SS201009R5\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	7.01e4	0.78	NO	1.03	1.000	26.355	26.36	1.001	1.001	9.6869	96.9	0.0336	9.69
2	2 1,2,3,7,8-PeCDD	2.33e5	0.61	NO	0.929	1.000	30.996	31.00	1.000	1.000	52.400	105	0.102	52.4
3	3 1,2,3,4,7,8-HxCDD	2.02e5	1.25	NO	1.08	1.000	34.312	34.31	1.001	1.001	51.538	103	0.156	51.5
4	4 1,2,3,6,7,8-HxCDD	2.14e5	1.27	NO	0.967	1.000	34.412	34.42	1.000	1.001	53.558	107	0.166	53.6
5	5 1,2,3,7,8,9-HxCDD	2.00e5	1.27	NO	0.996	1.000	34.689	34.69	1.000	1.000	50.571	101	0.168	50.6
6	6 1,2,3,4,6,7,8-HpCDD	1.48e5	1.04	NO	0.946	1.000	38.136	38.15	1.000	1.000	49.843	99.7	0.354	49.8
7	7 OCDD	2.42e5	0.90	NO	0.925	1.000	41.072	41.07	1.000	1.000	106.39	106	0.536	106
8	8 2,3,7,8-TCDF	8.55e4	0.75	NO	0.869	1.000	25.660	25.68	1.000	1.001	10.020	100	0.0379	10.0
9	9 1,2,3,7,8-PeCDF	3.74e5	1.58	NO	0.989	1.000	29.745	29.75	1.000	1.001	51.450	103	0.0846	51.5
10	10 2,3,4,7,8-PeCDF	4.28e5	1.58	NO	1.10	1.000	30.788	30.80	1.000	1.000	54.225	108	0.0753	54.2
11	11 1,2,3,4,7,8-HxCDF	2.80e5	1.22	NO	0.996	1.000	33.379	33.39	1.000	1.000	54.310	109	0.151	54.3
12	12 1,2,3,6,7,8-HxCDF	2.94e5	1.22	NO	1.04	1.000	33.518	33.53	1.000	1.000	53.286	107	0.151	53.3
13	13 2,3,4,6,7,8-HxCDF	2.78e5	1.21	NO	1.04	1.000	34.181	34.19	1.000	1.000	53.784	108	0.169	53.8
14	14 1,2,3,7,8,9-HxCDF	2.14e5	1.21	NO	1.01	1.000	35.179	35.20	1.000	1.001	51.417	103	0.231	51.4
15	15 1,2,3,4,6,7,8-HpCDF	2.13e5	1.01	NO	1.06	1.000	36.755	36.77	1.000	1.001	53.617	107	0.302	53.6
16	16 1,2,3,4,7,8,9-HpCDF	1.64e5	1.00	NO	1.18	1.000	38.754	38.76	1.000	1.000	51.483	103	0.312	51.5
17	17 OCDF	2.75e5	0.87	NO	0.929	1.000	41.368	41.37	1.000	1.000	101.71	102	0.340	102
18	18 13C-2,3,7,8-TCDD	7.05e5	0.75	NO	1.14	1.000	26.327	26.33	1.029	1.029	100.96	101	0.125	
19	19 13C-1,2,3,7,8-PeCDD	4.79e5	0.64	NO	0.794	1.000	30.975	30.99	1.211	1.211	98.428	98.4	0.190	
20	20 13C-1,2,3,4,7,8-HxCDD	3.64e5	1.33	NO	0.698	1.000	34.276	34.28	1.013	1.014	97.331	97.3	0.249	
21	21 13C-1,2,3,6,7,8-HxCDD	4.13e5	1.24	NO	0.778	1.000	34.405	34.40	1.017	1.017	98.914	98.9	0.223	
22	22 13C-1,2,3,7,8,9-HxCDD	3.97e5	1.24	NO	0.751	1.000	34.676	34.68	1.025	1.025	98.606	98.6	0.231	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.14e5	1.03	NO	0.599	1.000	38.122	38.14	1.127	1.127	97.690	97.7	0.539	
24	24 13C-OCDD	4.92e5	0.87	NO	0.503	1.000	41.062	41.07	1.214	1.214	182.38	91.2	0.446	
25	25 13C-2,3,7,8-TCDF	9.82e5	0.79	NO	0.994	1.000	25.657	25.65	1.003	1.003	102.14	102	0.134	
26	26 13C-1,2,3,7,8-PeCDF	7.35e5	1.58	NO	0.743	1.000	29.727	29.74	1.162	1.163	102.35	102	0.270	
27	27 13C-2,3,4,7,8-PeCDF	7.19e5	1.60	NO	0.726	1.000	30.785	30.79	1.204	1.204	102.37	102	0.276	
28	28 13C-1,2,3,4,7,8-HxCDF	5.17e5	0.51	NO	0.979	1.000	33.377	33.38	0.987	0.987	98.588	98.6	0.371	
29	29 13C-1,2,3,6,7,8-HxCDF	5.32e5	0.51	NO	0.998	1.000	33.515	33.52	0.991	0.991	99.470	99.5	0.363	
30	30 13C-2,3,4,6,7,8-HxCDF	4.97e5	0.51	NO	0.945	1.000	34.175	34.18	1.010	1.010	98.019	98.0	0.384	
31	31 13C-1,2,3,7,8,9-HxCDF	4.14e5	0.50	NO	0.799	1.000	35.176	35.18	1.040	1.040	96.662	96.7	0.454	

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-7.qld

Last Altered: Monday, October 12, 2020 15:34:31 Pacific Daylight Time

Printed: Monday, October 12, 2020 15:36:32 Pacific Daylight Time

Name: 201009R5\_7, Date: 09-Oct-2020, Time: 20:44:53, ID: SS201009R5\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.76e5	0.44	NO	0.722	1.000	36.746	36.75	1.086	1.086	97.138	97.1	0.366	
33	13C-1,2,3,4,7,8,9-HpCDF	2.71e5	0.42	NO	0.565	1.000	38.735	38.75	1.145	1.146	89.366	89.4	0.467	
34	13C-OCDF	5.83e5	0.87	NO	0.607	1.000	41.353	41.36	1.222	1.223	179.05	89.5	0.478	
35	37Cl-2,3,7,8-TCDD	7.19e4			1.18	1.000	26.345	26.36	1.030	1.030	9.9189	99.2	0.0164	
36	13C-1,2,3,4-TCDD	6.13e5	0.79	NO	1.00	1.000	25.590	25.58	1.000	1.000	100.00	100	0.142	
37	13C-1,2,3,4-TCDF	9.67e5	0.81	NO	1.00	1.000	24.130	24.11	1.000	1.000	100.00	100	0.133	
38	13C-1,2,3,4,6,9-HxCDF	5.36e5	0.51	NO	1.00	1.000	33.840	33.83	1.000	1.000	100.00	100	0.363	

Dataset: U:\VG12.PRO\Results\201009R5\201009R5-7.qld

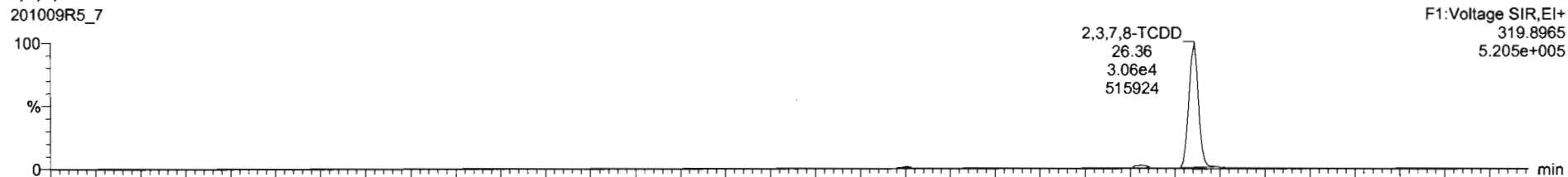
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Printed: Monday, October 12, 2020 15:36:00 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-10-20.mdb 12 Oct 2020 11:06:31  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

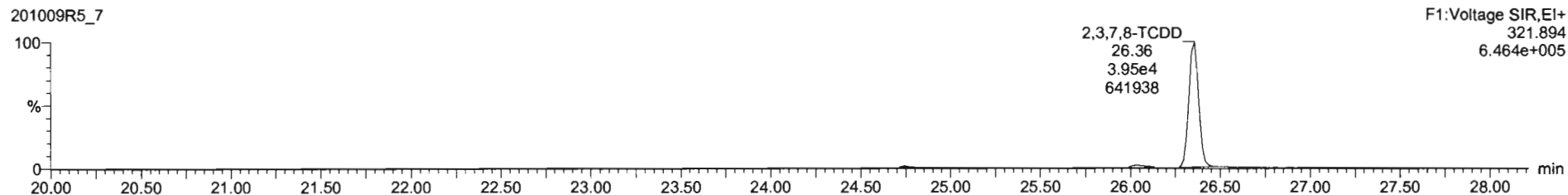
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**2,3,7,8-TCDD**

201009R5\_7

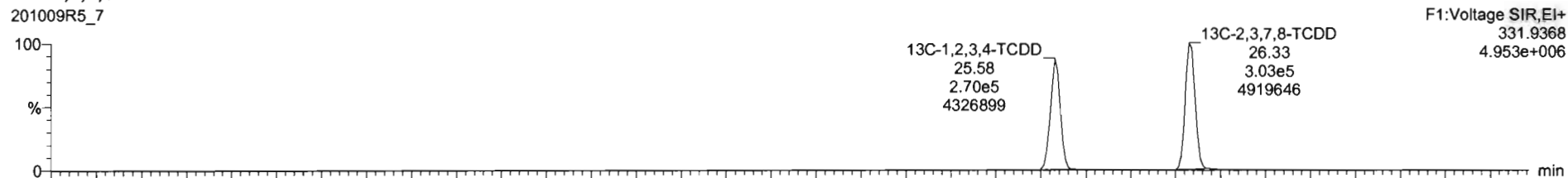


201009R5\_7

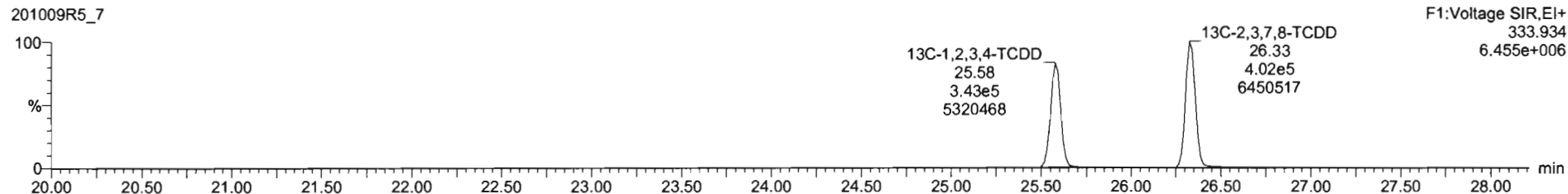


**13C-2,3,7,8-TCDD**

201009R5\_7



201009R5\_7



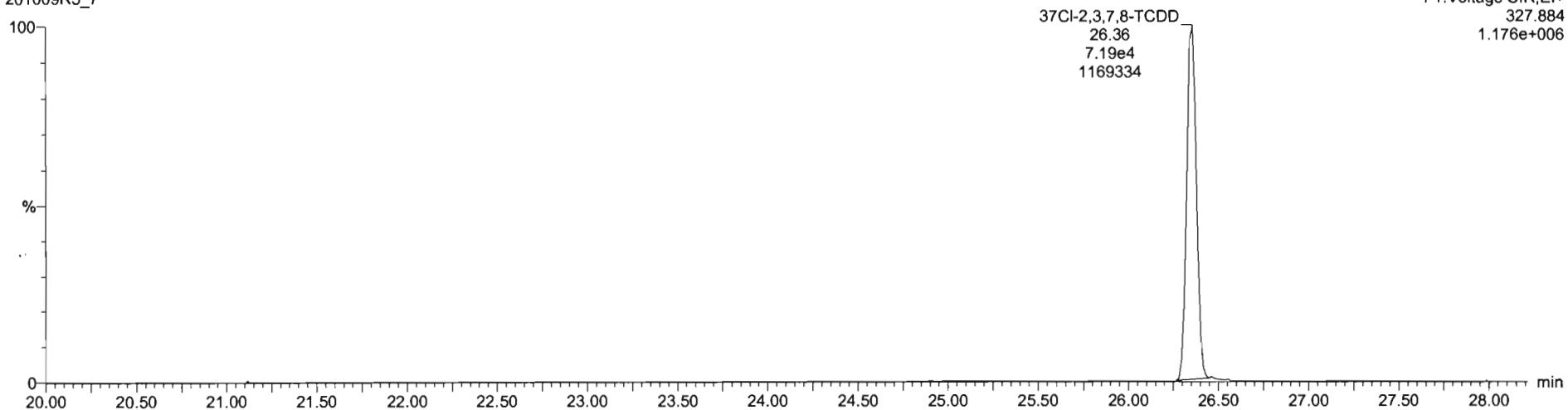
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Printed: Monday, October 12, 2020 15:36:00 Pacific Daylight Time

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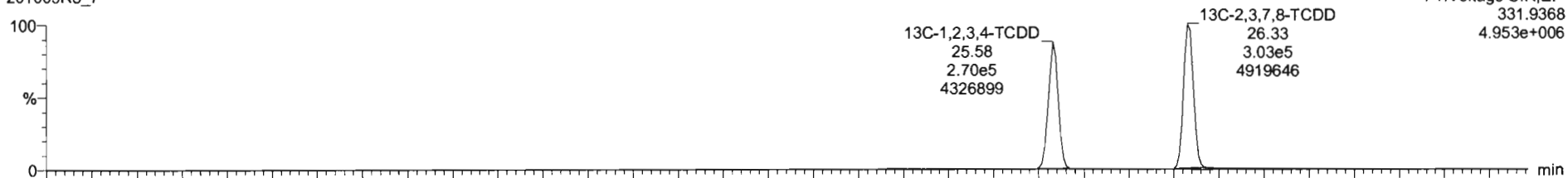
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201009R5\_7

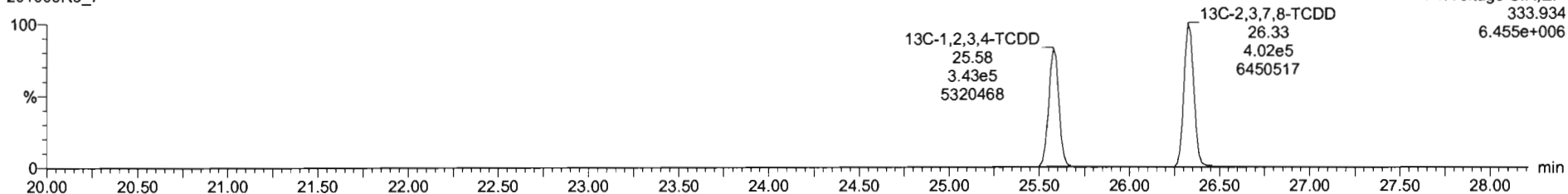


**13C-1,2,3,4-TCDD**

201009R5\_7



201009R5\_7



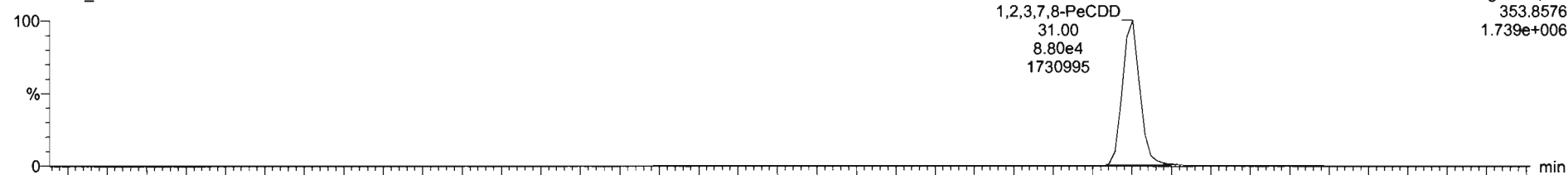
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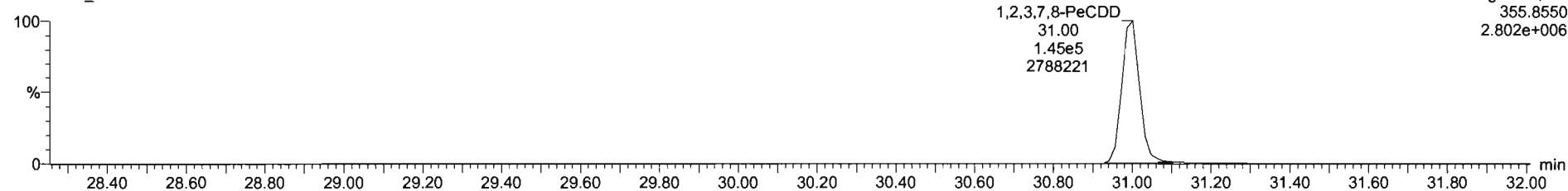
Name: 201009R5\_7, Date: 09-Oct-2020, Time: 20:44:53, ID: SS201009R5\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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

201009R5\_7

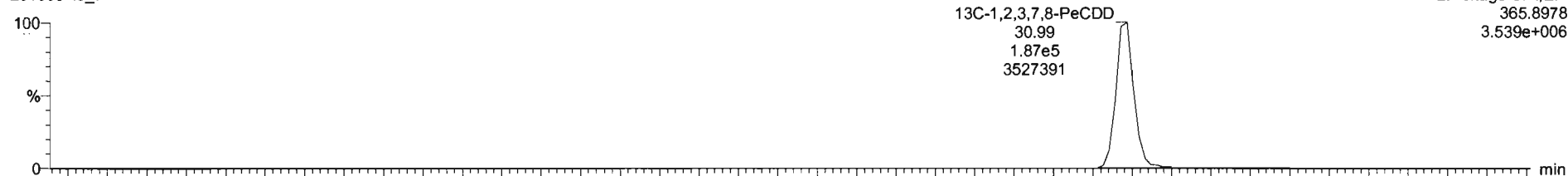


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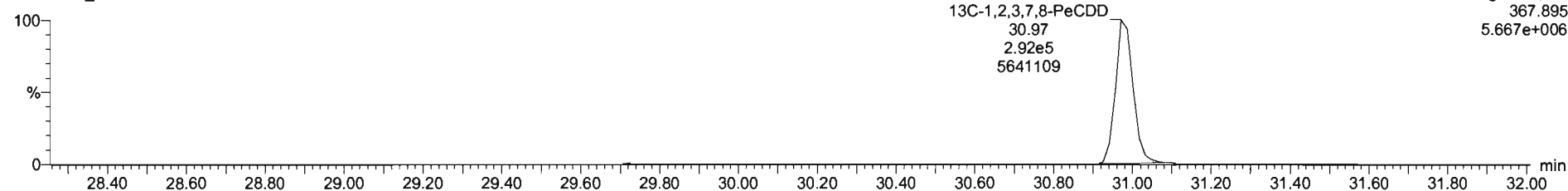


**13C-1,2,3,7,8-PeCDD**

201009R5\_7



201009R5\_7



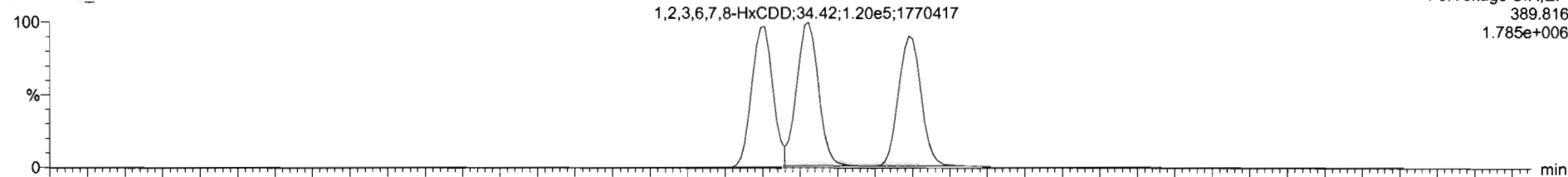
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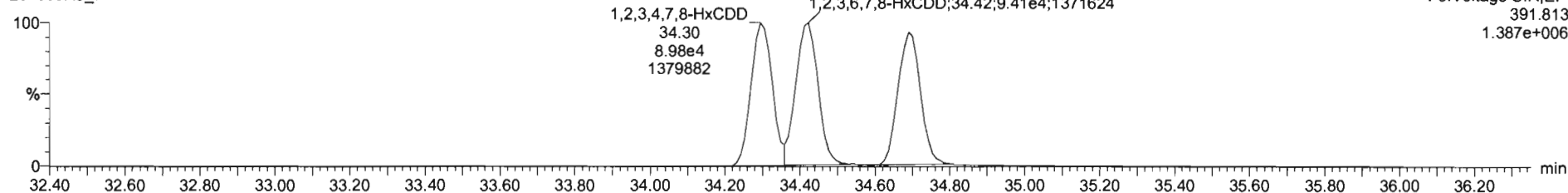
Name: 201009R5\_7, Date: 09-Oct-2020, Time: 20:44:53, ID: SS201009R5\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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

201009R5\_7

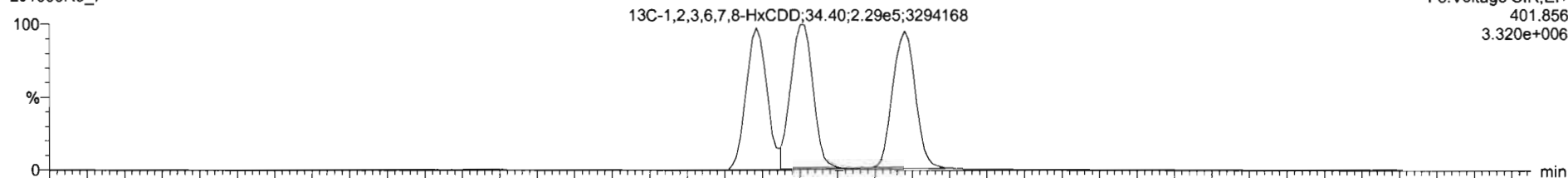


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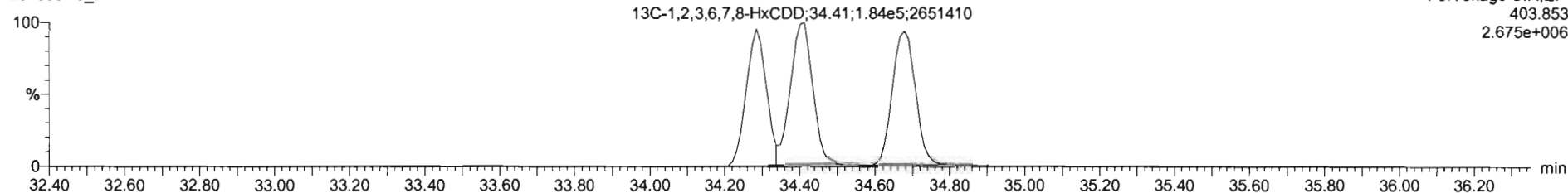


13C-1,2,3,4,7,8-HxCDD

201009R5\_7



201009R5\_7





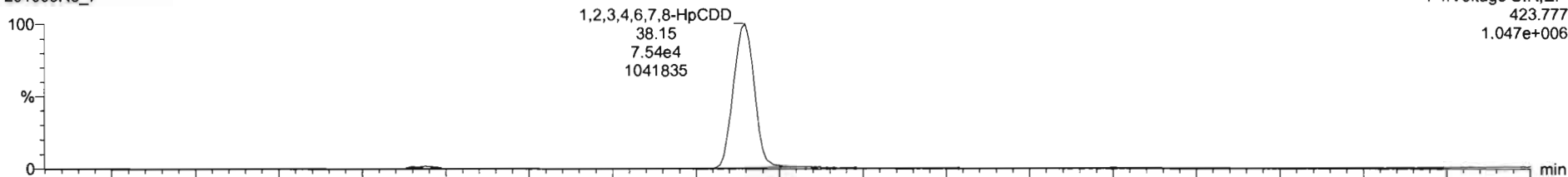
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Last Altered: Monday, October 12, 2020 15:34:31 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:36:00 Pacific Daylight Time

Name: 201009R5\_7, Date: 09-Oct-2020, Time: 20:44:53, ID: SS201009R5\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

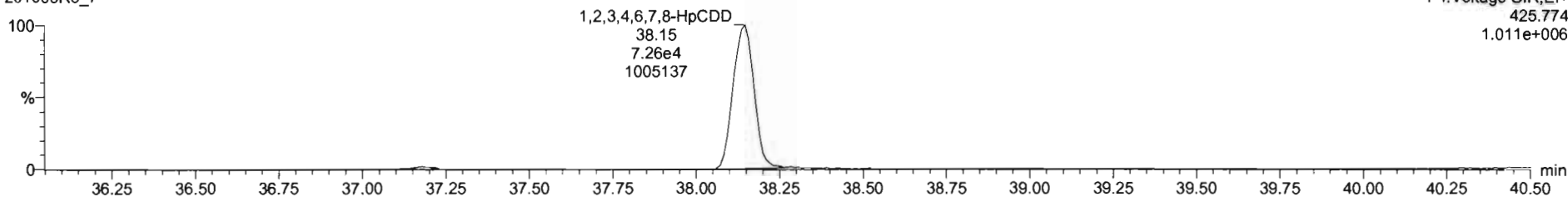
1,2,3,4,6,7,8-HpCDD

201009R5\_7



F4:Voltage SIR,EI+  
423.777  
1.047e+006

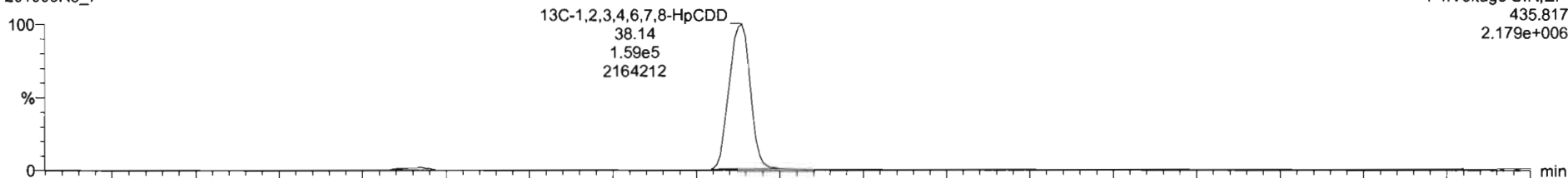
201009R5\_7



F4:Voltage SIR,EI+  
425.774  
1.011e+006

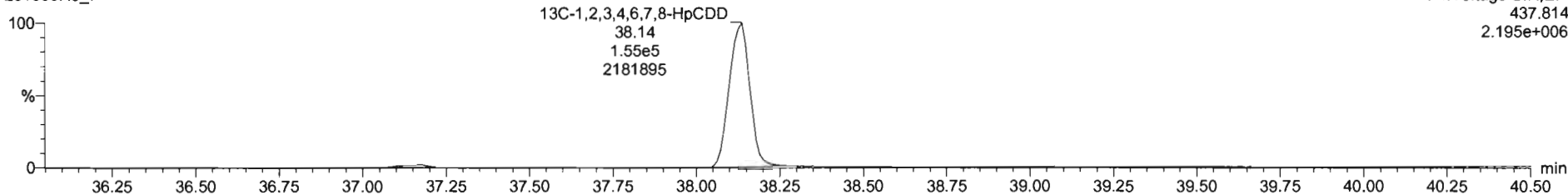
13C-1,2,3,4,6,7,8-HpCDD

201009R5\_7



F4:Voltage SIR,EI+  
435.817  
2.179e+006

201009R5\_7



F4:Voltage SIR,EI+  
437.814  
2.195e+006

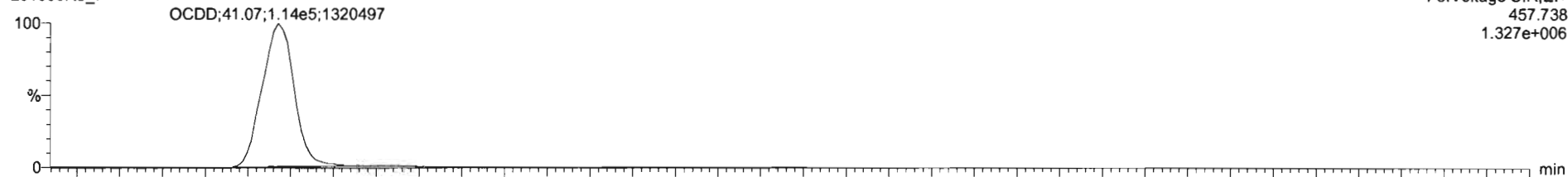
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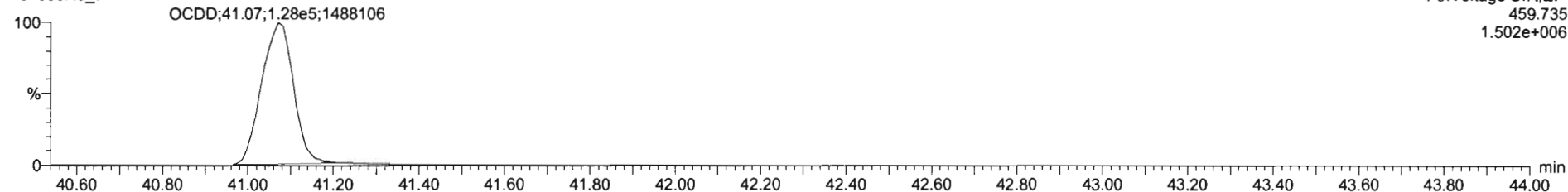
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**OCDD**

201009R5\_7

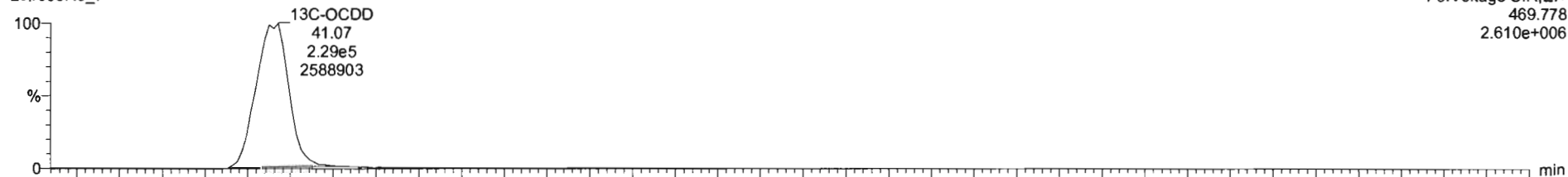


201009R5\_7

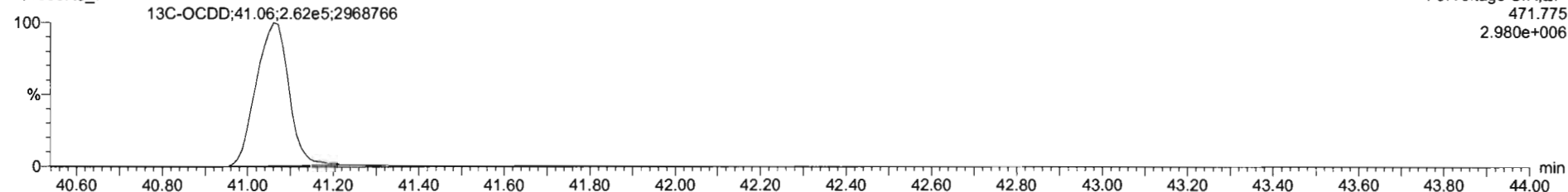


**13C-OCDD**

201009R5\_7



201009R5\_7



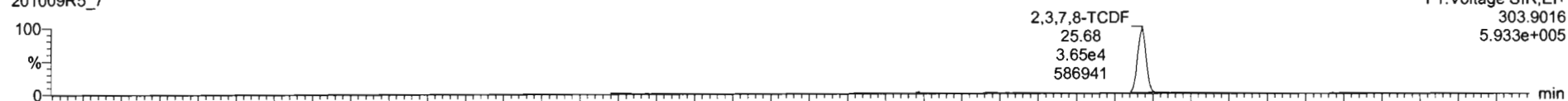
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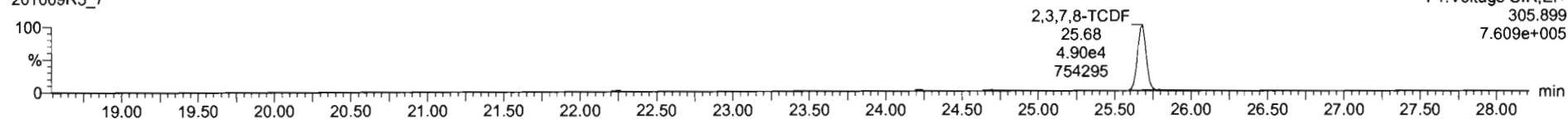
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**2,3,7,8-TCDF**

201009R5\_7

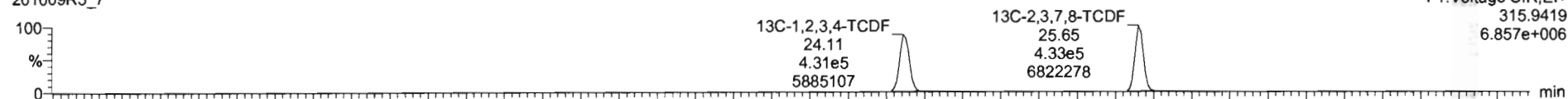


201009R5\_7

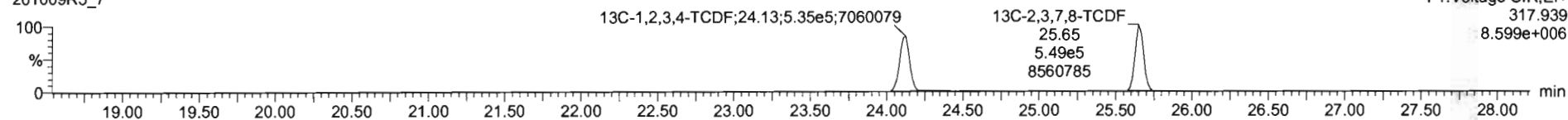


**13C-2,3,7,8-TCDF**

201009R5\_7

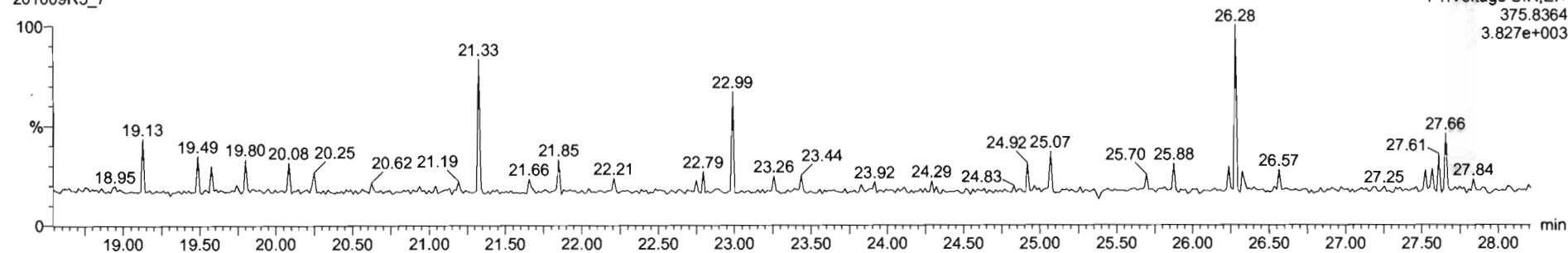


201009R5\_7



**DPE1**

201009R5\_7



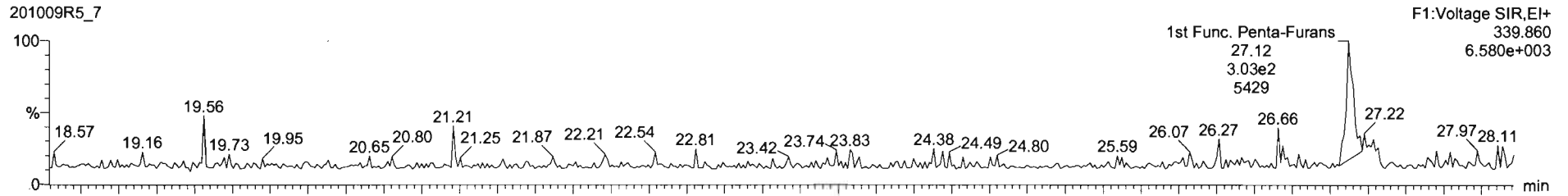
Dataset: U:\VG12.PRO\Results\201009R5\201009R5-7.qld

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Printed: Monday, October 12, 2020 15:36:00 Pacific Daylight Time

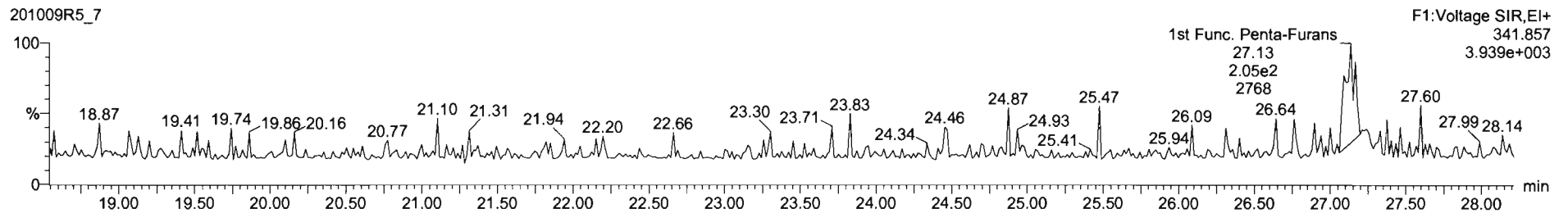
Name: 201009R5\_7, Date: 09-Oct-2020, Time: 20:44:53, ID: SS201009R5\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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201009R5\_7

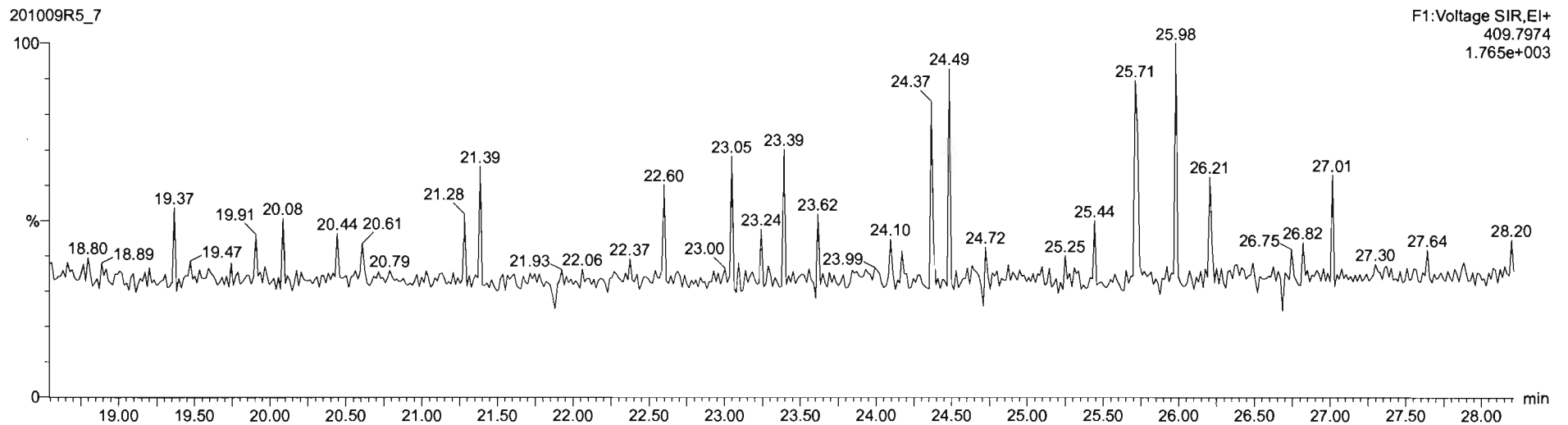


201009R5\_7



DPE6

201009R5\_7



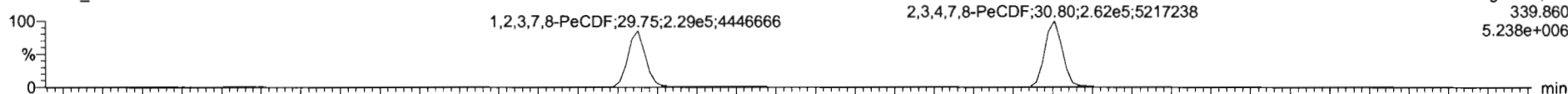
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Last Altered: Monday, October 12, 2020 15:34:31 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:36:00 Pacific Daylight Time

Name: 201009R5\_7, Date: 09-Oct-2020, Time: 20:44:53, ID: SS201009R5\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

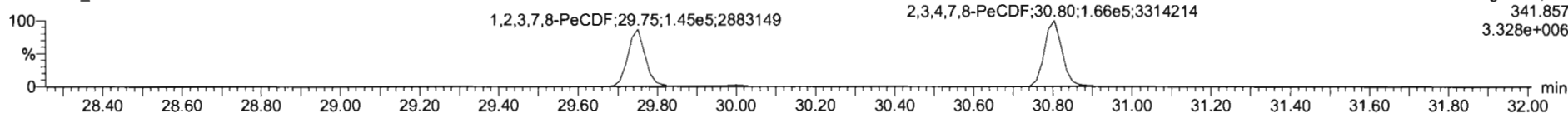
**1,2,3,7,8-PeCDF**

201009R5\_7



F2:Voltage SIR,EI+  
339.860  
5.238e+006

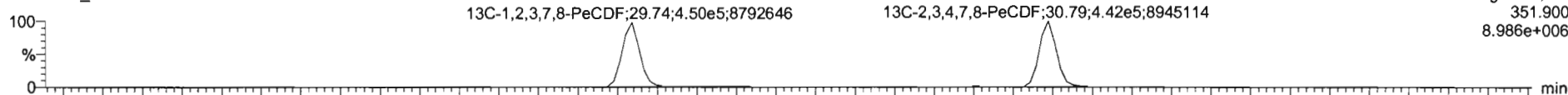
201009R5\_7



F2:Voltage SIR,EI+  
341.857  
3.328e+006

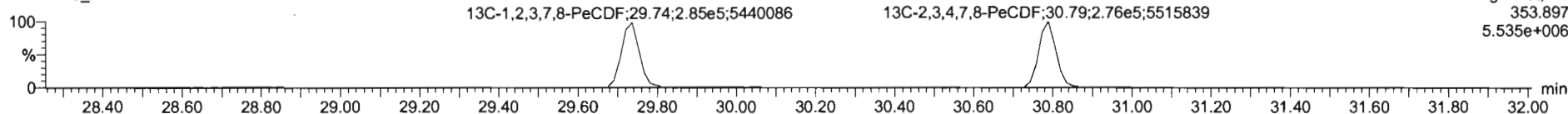
**13C-1,2,3,7,8-PeCDF**

201009R5\_7



F2:Voltage SIR,EI+  
351.900  
8.986e+006

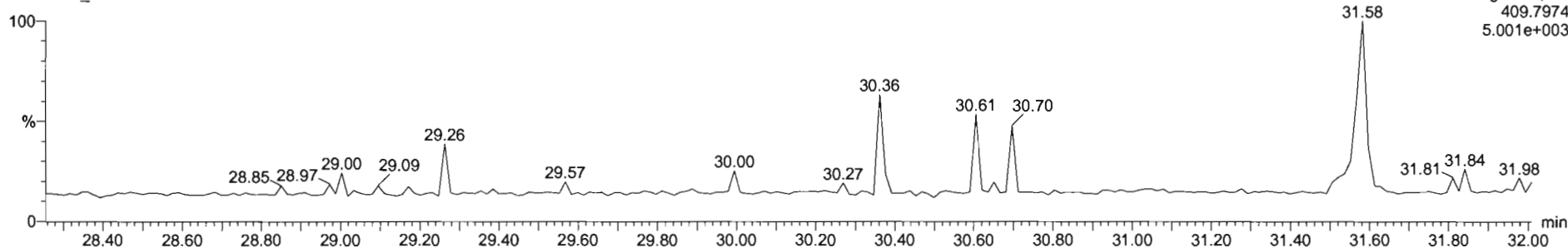
201009R5\_7



F2:Voltage SIR,EI+  
353.897  
5.535e+006

**DPE2**

201009R5\_7



F2:Voltage SIR,EI+  
409.7974  
5.001e+003

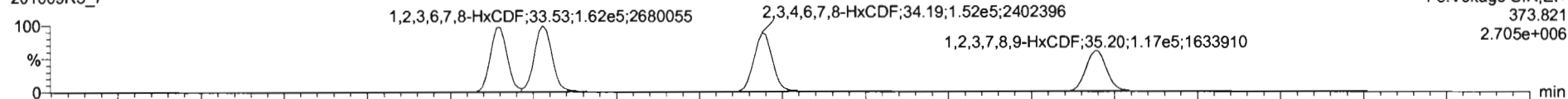
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Last Altered: Monday, October 12, 2020 15:34:31 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:36:00 Pacific Daylight Time

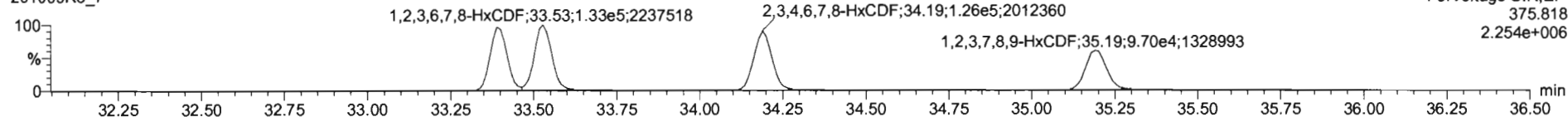
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**1,2,3,4,7,8-HxCDF**

201009R5\_7

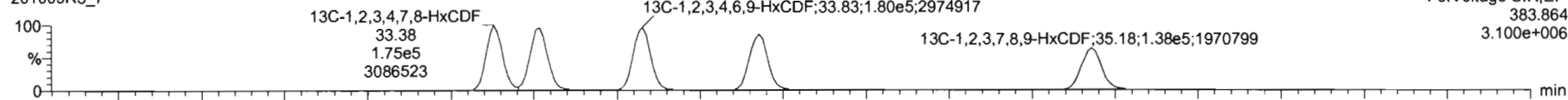


201009R5\_7

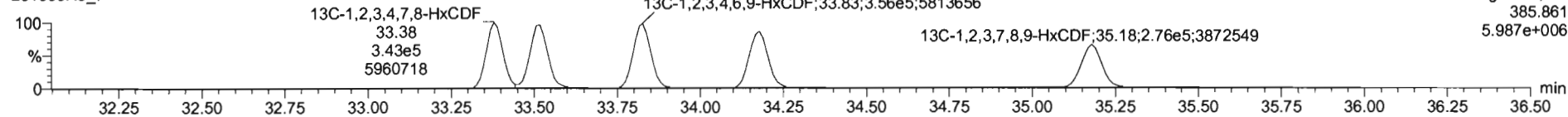


**13C-1,2,3,4,7,8-HxCDF**

201009R5\_7

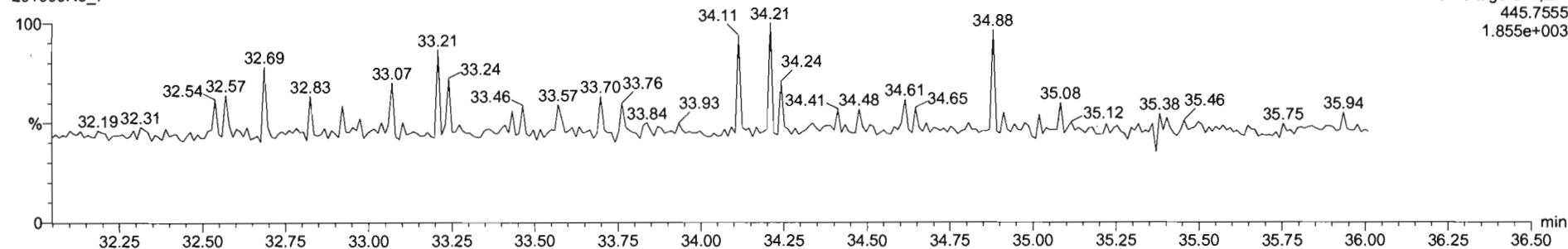


201009R5\_7



**DPE3**

201009R5\_7

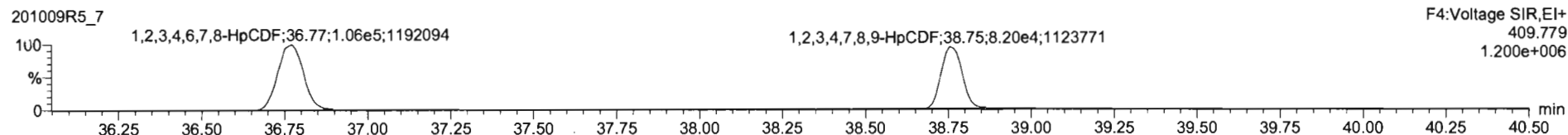
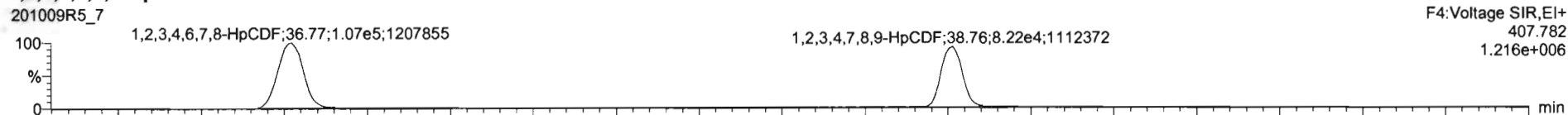


Dataset: U:\VG12.PRO\Results\201009R5\201009R5-7.qld

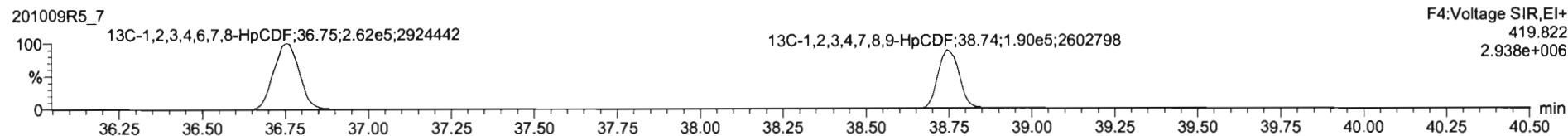
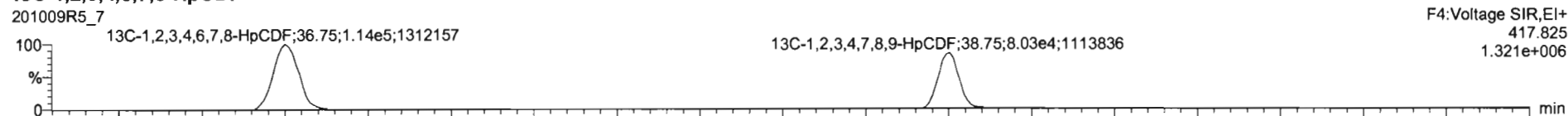
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Name: 201009R5\_7, Date: 09-Oct-2020, Time: 20:44:53, ID: SS201009R5\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

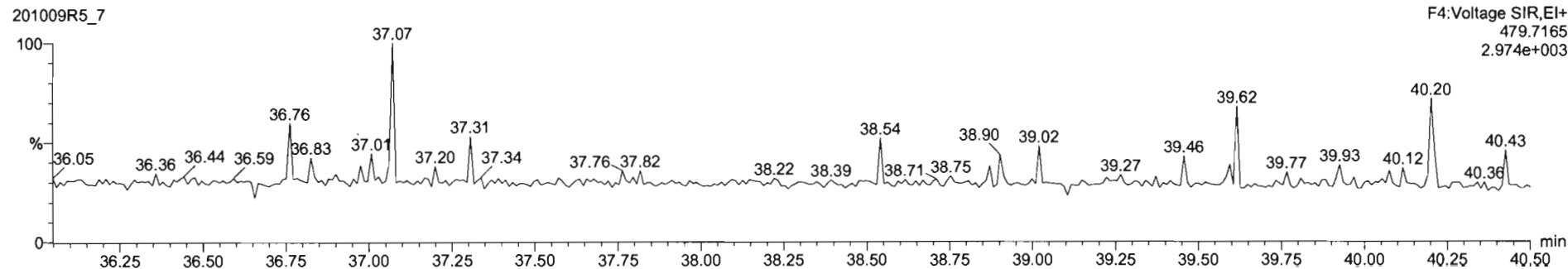
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**



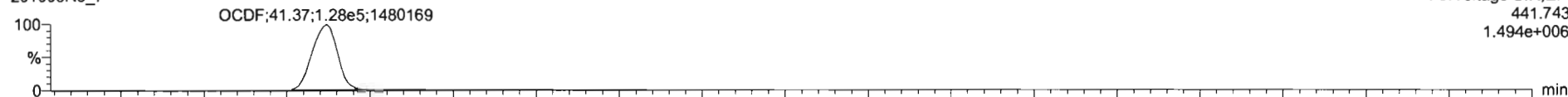
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Last Altered: Monday, October 12, 2020 15:34:31 Pacific Daylight Time  
Printed: Monday, October 12, 2020 15:36:00 Pacific Daylight Time

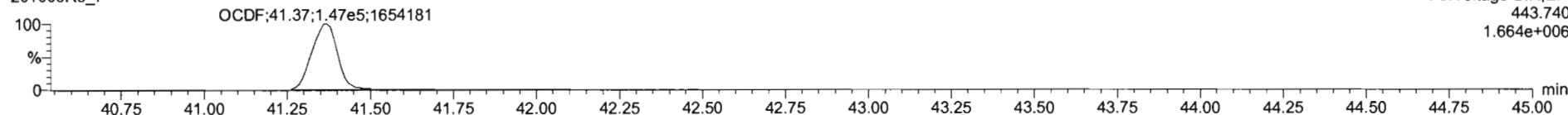
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**OCDF**

201009R5\_7

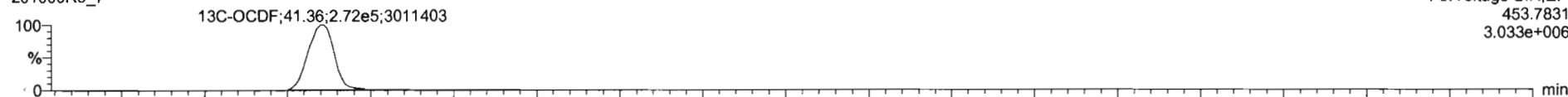


201009R5\_7

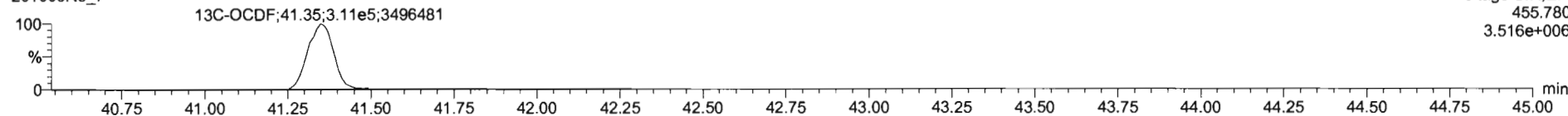


**13C-OCDF**

201009R5\_7

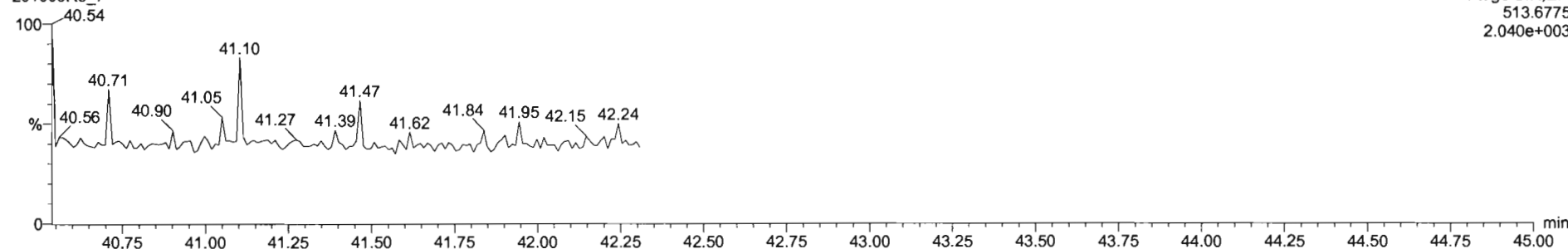


201009R5\_7



**DPE5**

201009R5\_7





Dataset: U:\VG12.PRO\Results\201009R5\201009R5-7.qld

Last Altered: Monday, October 12, 2020 15:34:31 Pacific Daylight Time  
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Name: 201009R5\_7, Date: 09-Oct-2020, Time: 20:44:53, ID: SS201009R5\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

