

November 13, 2020

**Vista Work Order No. 2002171**

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 October 13, 2020 under your Project Name 'GascoSiltronic: US Moorings'.

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. 2002171**

### **Case Narrative**

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

Seven 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. The Chain of Custody (CoC) was received by email on October 14, 2020.

#### **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 the preparation batch. No analytes were detected in the Method Blank. The OPR recoveries were within the method acceptance criteria.

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

##### **EPA Method 1668A**

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668A using a ZB-1 GC column.

##### **Holding Times**

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

##### **Quality Control**

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

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

The labeled standard recoveries outside the method acceptance criteria are listed in the table below:

### QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2002171-01	USMPDI-041SG-201009	EPA Method 1668A	13C-PCB-209	H	154
2002171-02	USMPDI-042SG-201009	EPA Method 1668A	13C-PCB-209	H	186

H = Recovery was outside laboratory acceptance criteria.

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# Sample Inventory Report

<b>Vista Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled</b>	<b>Received</b>	<b>Components/Containers</b>
2002171-01	USMPDI-041SG-201009	09-Oct-20 00:00	13-Oct-20 12:04	Amber Glass, 120 mL
2002171-02	USMPDI-042SG-201009	09-Oct-20 13:43	13-Oct-20 12:04	Amber Glass, 120 mL
2002171-03	USMPDI-043SG-201009	09-Oct-20 09:03	13-Oct-20 12:04	Amber Glass, 120 mL
2002171-04	USMPDI-047SG-201009	09-Oct-20 15:56	13-Oct-20 12:04	Amber Glass, 120 mL
2002171-05	USMPDI-050SG-201009	09-Oct-20 09:52	13-Oct-20 12:04	Amber Glass, 120 mL
2002171-06	USMPDI-051SG-201009	09-Oct-20 10:58	13-Oct-20 12:04	Amber Glass, 120 mL
2002171-07	USMPDI-054SG-201009	09-Oct-20 14:50	13-Oct-20 12:04	Amber Glass, 120 mL

## **ANALYTICAL RESULTS**

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0J0169 Date Extracted: 19-Oct-2020 8:44		Lab Sample: B0J0169-BLK1 Date Analyzed: 05-Nov-20 18:29 Column: ZB-DIOXIN					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0312			IS 13C-2,3,7,8-TCDD	77.5	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0472			13C-1,2,3,7,8-PeCDD	78.9	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0640			13C-1,2,3,4,7,8-HxCDD	80.0	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0657			13C-1,2,3,6,7,8-HxCDD	84.1	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0751			13C-1,2,3,7,8,9-HxCDD	84.0	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.0834			13C-1,2,3,4,6,7,8-HpCDD	79.8	23 - 140		
OCDD	ND	0.176			13C-OCDD	73.2	17 - 157		
2,3,7,8-TCDF	ND	0.0229			13C-2,3,7,8-TCDF	79.7	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0240			13C-1,2,3,7,8-PeCDF	85.9	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0219			13C-2,3,4,7,8-PeCDF	84.6	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0350			13C-1,2,3,4,7,8-HxCDF	76.3	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0320			13C-1,2,3,6,7,8-HxCDF	78.3	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0360			13C-2,3,4,6,7,8-HxCDF	76.9	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0568			13C-1,2,3,7,8,9-HxCDF	75.6	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0581			13C-1,2,3,4,6,7,8-HpCDF	70.3	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0604			13C-1,2,3,4,7,8,9-HpCDF	68.1	26 - 138		
OCDF	ND	0.111			13C-OCDF	65.7	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	100	35 - 197		
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)</b>				
					TEQMinWHO2005Dioxin		0.00		
<b>TOTALS</b>									
Total TCDD	ND	0.0312							
Total PeCDD	ND	0.0472							
Total HxCDD	ND	0.0751							
Total HpCDD	ND	0.0834							
Total TCDF	ND	0.0229							
Total PeCDF	ND	0.0240							
Total HxCDF	ND	0.0568							
Total HpCDF	ND	0.0604							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0J0169 Date Extracted: 19-Oct-2020 8:44		Lab Sample: B0J0169-BS1 Date Analyzed: 05-Nov-20 16:14 Column: ZB-DIOXIN			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	19.7	20.0	98.5	67 - 158	IS 13C-2,3,7,8-TCDD	64.0	20 - 175
1,2,3,7,8-PeCDD	106	100	106	70 - 142	13C-1,2,3,7,8-PeCDD	67.1	21 - 227
1,2,3,4,7,8-HxCDD	104	100	104	70 - 164	13C-1,2,3,4,7,8-HxCDD	70.6	21 - 193
1,2,3,6,7,8-HxCDD	100	100	100	76 - 134	13C-1,2,3,6,7,8-HxCDD	72.7	25 - 163
1,2,3,7,8,9-HxCDD	100	100	100	64 - 162	13C-1,2,3,7,8,9-HxCDD	73.5	21 - 193
1,2,3,4,6,7,8-HpCDD	102	100	102	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	74.0	26 - 166
OCDD	198	200	99.0	78 - 144	13C-OCDD	63.6	13 - 199
2,3,7,8-TCDF	19.2	20.0	96.1	75 - 158	13C-2,3,7,8-TCDF	63.1	22 - 152
1,2,3,7,8-PeCDF	101	100	101	80 - 134	13C-1,2,3,7,8-PeCDF	69.8	21 - 192
2,3,4,7,8-PeCDF	101	100	101	68 - 160	13C-2,3,4,7,8-PeCDF	69.4	13 - 328
1,2,3,4,7,8-HxCDF	101	100	101	72 - 134	13C-1,2,3,4,7,8-HxCDF	65.8	19 - 202
1,2,3,6,7,8-HxCDF	99.3	100	99.3	84 - 130	13C-1,2,3,6,7,8-HxCDF	66.8	21 - 159
2,3,4,6,7,8-HxCDF	100	100	100	70 - 156	13C-2,3,4,6,7,8-HxCDF	66.2	22 - 176
1,2,3,7,8,9-HxCDF	101	100	101	78 - 130	13C-1,2,3,7,8,9-HxCDF	66.9	17 - 205
1,2,3,4,6,7,8-HpCDF	98.8	100	98.8	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	62.3	21 - 158
1,2,3,4,7,8,9-HpCDF	99.2	100	99.2	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	62.1	20 - 186
OCDF	197	200	98.3	63 - 170	13C-OCDF	60.1	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	97.1	31 - 191

LCL-UCL - Lower control limit - upper control limit



**Sample ID: USMPDI-041SG-201009** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002171-01      Date Received: 13-Oct-2020 12:04
Project: GascoSiltronic: US Moorings	Sample Size: 28.8 g	QC Batch: B0J0169      Date Extracted: 19-Oct-2020 8:44
Date Collected: 09-Oct-2020 0:00	% Solids: 35.0	Date Analyzed: 10-Nov-20 13:44      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.319		IS 13C-2,3,7,8-TCDD	102	25 - 164	
1,2,3,7,8-PeCDD	0.846			J	13C-1,2,3,7,8-PeCDD	98.4	25 - 181	
1,2,3,4,7,8-HxCDD	1.01			J	13C-1,2,3,4,7,8-HxCDD	93.8	32 - 141	
1,2,3,6,7,8-HxCDD	4.46				13C-1,2,3,6,7,8-HxCDD	89.1	28 - 130	
1,2,3,7,8,9-HxCDD	2.28			J	13C-1,2,3,7,8,9-HxCDD	93.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	112				13C-1,2,3,4,6,7,8-HpCDD	93.3	23 - 140	
OCDD	1070				13C-OCDD	84.9	17 - 157	
2,3,7,8-TCDF	5.32				13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	8.52				13C-1,2,3,7,8-PeCDF	99.3	24 - 185	
2,3,4,7,8-PeCDF	5.03				13C-2,3,4,7,8-PeCDF	94.0	21 - 178	
1,2,3,4,7,8-HxCDF	15.0				13C-1,2,3,4,7,8-HxCDF	98.8	26 - 152	
1,2,3,6,7,8-HxCDF	4.26				13C-1,2,3,6,7,8-HxCDF	95.6	26 - 123	
2,3,4,6,7,8-HxCDF	1.86			J	13C-2,3,4,6,7,8-HxCDF	96.3	28 - 136	
1,2,3,7,8,9-HxCDF	1.40			J	13C-1,2,3,7,8,9-HxCDF	96.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	20.6				13C-1,2,3,4,6,7,8-HpCDF	90.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.04				13C-1,2,3,4,7,8,9-HpCDF	88.6	26 - 138	
OCDF	63.0				13C-OCDF	84.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	120	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      7.87

<b>TOTALS</b>			
Total TCDD	4.16		4.48
Total PeCDD	5.69		7.32
Total HxCDD	41.4		
Total HpCDD	282		
Total TCDF	18.0		19.0
Total PeCDF	30.7		
Total HxCDF	48.7		
Total HpCDF	63.2		

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: USMPDI-042SG-201009** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002171-02      Date Received: 13-Oct-2020 12:04
Project: GascoSiltronic: US Moorings	Sample Size: 27.1 g	QC Batch: B0J0169      Date Extracted: 19-Oct-2020 8:44
Date Collected: 09-Oct-2020 13:43	% Solids: 37.3	Date Analyzed: 09-Nov-20 16:20      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0674		IS 13C-2,3,7,8-TCDD	102	25 - 164	
1,2,3,7,8-PeCDD	0.148			J	13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	0.184			J	13C-1,2,3,4,7,8-HxCDD	103	32 - 141	
1,2,3,6,7,8-HxCDD	0.739			J	13C-1,2,3,6,7,8-HxCDD	99.5	28 - 130	
1,2,3,7,8,9-HxCDD	0.380			J	13C-1,2,3,7,8,9-HxCDD	104	32 - 141	
1,2,3,4,6,7,8-HpCDD	17.9				13C-1,2,3,4,6,7,8-HpCDD	96.1	23 - 140	
OCDD	165				13C-OCDD	87.7	17 - 157	
2,3,7,8-TCDF	0.948				13C-2,3,7,8-TCDF	102	24 - 169	
1,2,3,7,8-PeCDF	1.01			J	13C-1,2,3,7,8-PeCDF	105	24 - 185	
2,3,4,7,8-PeCDF	0.655			J	13C-2,3,4,7,8-PeCDF	108	21 - 178	
1,2,3,4,7,8-HxCDF	1.30			J	13C-1,2,3,4,7,8-HxCDF	96.7	26 - 152	
1,2,3,6,7,8-HxCDF	0.354			J	13C-1,2,3,6,7,8-HxCDF	94.1	26 - 123	
2,3,4,6,7,8-HxCDF	0.258			J	13C-2,3,4,6,7,8-HxCDF	96.4	28 - 136	
1,2,3,7,8,9-HxCDF	0.164			J	13C-1,2,3,7,8,9-HxCDF	98.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.85				13C-1,2,3,4,6,7,8-HpCDF	87.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.362			J	13C-1,2,3,4,7,8,9-HpCDF	85.9	26 - 138	
OCDF	7.69				13C-OCDF	82.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	115	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      1.07

<b>TOTALS</b>			
Total TCDD	0.557		0.624
Total PeCDD	0.662		1.02
Total HxCDD	7.04		
Total HpCDD	54.8		
Total TCDF	3.00		3.08
Total PeCDF	4.18		
Total HxCDF	6.31		
Total HpCDF	9.22		

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: USMPDI-043SG-201009** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002171-03      Date Received: 13-Oct-2020 12:04
Project: GascoSiltronic: US Moorings	Sample Size: 28.5 g	QC Batch: B0J0169      Date Extracted: 19-Oct-2020 8:44
Date Collected: 09-Oct-2020 9:03	% Solids: 35.1	Date Analyzed: 09-Nov-20 17:04      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.140		IS 13C-2,3,7,8-TCDD	102	25 - 164	
1,2,3,7,8-PeCDD	0.441			J	13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	0.624			J	13C-1,2,3,4,7,8-HxCDD	102	32 - 141	
1,2,3,6,7,8-HxCDD	2.42			J	13C-1,2,3,6,7,8-HxCDD	99.2	28 - 130	
1,2,3,7,8,9-HxCDD	1.28			J	13C-1,2,3,7,8,9-HxCDD	104	32 - 141	
1,2,3,4,6,7,8-HpCDD	61.6				13C-1,2,3,4,6,7,8-HpCDD	101	23 - 140	
OCDD	600				13C-OCDD	94.2	17 - 157	
2,3,7,8-TCDF	2.99				13C-2,3,7,8-TCDF	102	24 - 169	
1,2,3,7,8-PeCDF	4.20				13C-1,2,3,7,8-PeCDF	106	24 - 185	
2,3,4,7,8-PeCDF	2.13			J	13C-2,3,4,7,8-PeCDF	109	21 - 178	
1,2,3,4,7,8-HxCDF	17.3				13C-1,2,3,4,7,8-HxCDF	95.5	26 - 152	
1,2,3,6,7,8-HxCDF	3.27				13C-1,2,3,6,7,8-HxCDF	93.0	26 - 123	
2,3,4,6,7,8-HxCDF	0.957			J	13C-2,3,4,6,7,8-HxCDF	95.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.421			J	13C-1,2,3,7,8,9-HxCDF	98.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	18.4				13C-1,2,3,4,6,7,8-HpCDF	89.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.27				13C-1,2,3,4,7,8,9-HpCDF	88.0	26 - 138	
OCDF	34.6				13C-OCDF	88.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	113	35 - 197	

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

TEQMinWHO2005Dioxin      5.16

<b>TOTALS</b>			
Total TCDD	2.44		2.59
Total PeCDD	3.54		3.82
Total HxCDD	23.1		
Total HpCDD	168		
Total TCDF	10.2		11.1
Total PeCDF	14.7		
Total HxCDF	36.9		
Total HpCDF	43.1		

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

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

**Sample ID: USMPDI-047SG-201009** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002171-04      Date Received: 13-Oct-2020 12:04
Project: GascoSiltronic: US Moorings	Sample Size: 26.9 g	QC Batch: B0J0169      Date Extracted: 19-Oct-2020 8:44
Date Collected: 09-Oct-2020 15:56	% Solids: 37.3	Date Analyzed: 09-Nov-20 17:49      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.392		IS 13C-2,3,7,8-TCDD	92.4	25 - 164	
1,2,3,7,8-PeCDD	0.756			J	13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	0.969			J	13C-1,2,3,4,7,8-HxCDD	97.3	32 - 141	
1,2,3,6,7,8-HxCDD	4.01				13C-1,2,3,6,7,8-HxCDD	95.2	28 - 130	
1,2,3,7,8,9-HxCDD	2.04			J	13C-1,2,3,7,8,9-HxCDD	100	32 - 141	
1,2,3,4,6,7,8-HpCDD	117				13C-1,2,3,4,6,7,8-HpCDD	96.8	23 - 140	
OCDD	1230				13C-OCDD	90.7	17 - 157	
2,3,7,8-TCDF	37.5				13C-2,3,7,8-TCDF	89.3	24 - 169	
1,2,3,7,8-PeCDF	50.8				13C-1,2,3,7,8-PeCDF	98.6	24 - 185	
2,3,4,7,8-PeCDF	28.6				13C-2,3,4,7,8-PeCDF	99.9	21 - 178	
1,2,3,4,7,8-HxCDF	51.4				13C-1,2,3,4,7,8-HxCDF	92.7	26 - 152	
1,2,3,6,7,8-HxCDF	13.1				13C-1,2,3,6,7,8-HxCDF	90.8	26 - 123	
2,3,4,6,7,8-HxCDF	4.82				13C-2,3,4,6,7,8-HxCDF	91.8	28 - 136	
1,2,3,7,8,9-HxCDF	2.59				13C-1,2,3,7,8,9-HxCDF	94.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	28.5				13C-1,2,3,4,6,7,8-HpCDF	84.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.11				13C-1,2,3,4,7,8,9-HpCDF	83.3	26 - 138	
OCDF	66.3				13C-OCDF	82.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	106	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      24.4

<b>TOTALS</b>			
Total TCDD	5.55		6.05
Total PeCDD	6.03		7.40
Total HxCDD	44.6		
Total HpCDD	338		
Total TCDF	90.3		94.7
Total PeCDF	138		
Total HxCDF	110		
Total HpCDF	78.1		

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

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

**Sample ID: USMPDI-050SG-201009** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002171-05      Date Received: 13-Oct-2020 12:04
Project: GascoSiltronic: US Moorings	Sample Size: 29.1 g	QC Batch: B0J0169      Date Extracted: 19-Oct-2020 8:44
Date Collected: 09-Oct-2020 9:52	% Solids: 34.6	Date Analyzed: 09-Nov-20 18:34      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.143		IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	0.458			J	13C-1,2,3,7,8-PeCDD	104	25 - 181	
1,2,3,4,7,8-HxCDD	0.791			J	13C-1,2,3,4,7,8-HxCDD	98.7	32 - 141	
1,2,3,6,7,8-HxCDD	2.45			J	13C-1,2,3,6,7,8-HxCDD	97.5	28 - 130	
1,2,3,7,8,9-HxCDD	1.36			J	13C-1,2,3,7,8,9-HxCDD	102	32 - 141	
1,2,3,4,6,7,8-HpCDD	74.8				13C-1,2,3,4,6,7,8-HpCDD	97.0	23 - 140	
OCDD	752				13C-OCDD	91.7	17 - 157	
2,3,7,8-TCDF	3.93				13C-2,3,7,8-TCDF	98.6	24 - 169	
1,2,3,7,8-PeCDF	3.09				13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	2.31			J	13C-2,3,4,7,8-PeCDF	105	21 - 178	
1,2,3,4,7,8-HxCDF	5.70				13C-1,2,3,4,7,8-HxCDF	94.9	26 - 152	
1,2,3,6,7,8-HxCDF	1.59			J	13C-1,2,3,6,7,8-HxCDF	91.2	26 - 123	
2,3,4,6,7,8-HxCDF	0.822			J	13C-2,3,4,6,7,8-HxCDF	94.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.431			J	13C-1,2,3,7,8,9-HxCDF	95.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	11.2				13C-1,2,3,4,6,7,8-HpCDF	86.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.29			J	13C-1,2,3,4,7,8,9-HpCDF	87.2	26 - 138	
OCDF	27.7				13C-OCDF	84.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	114	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      4.06

<b>TOTALS</b>		
Total TCDD	1.88	2.08
Total PeCDD	4.70	5.44
Total HxCDD	31.2	
Total HpCDD	222	
Total TCDF	12.8	
Total PeCDF	13.8	
Total HxCDF	25.2	
Total HpCDF	33.9	

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: USMPDI-051SG-201009** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002171-06      Date Received: 13-Oct-2020 12:04
Project: GascoSiltronic: US Moorings	Sample Size: 27.9 g	QC Batch: B0J0169      Date Extracted: 19-Oct-2020 8:44
Date Collected: 09-Oct-2020 10:58	% Solids: 36.0	Date Analyzed: 09-Nov-20 22:28      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.375		IS 13C-2,3,7,8-TCDD	99.2	25 - 164	
1,2,3,7,8-PeCDD	1.17			J	13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	2.06			J	13C-1,2,3,4,7,8-HxCDD	98.6	32 - 141	
1,2,3,6,7,8-HxCDD	13.1				13C-1,2,3,6,7,8-HxCDD	95.9	28 - 130	
1,2,3,7,8,9-HxCDD	4.43				13C-1,2,3,7,8,9-HxCDD	99.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	460				13C-1,2,3,4,6,7,8-HpCDD	97.9	23 - 140	
OCDD	4010				13C-OCDD	101	17 - 157	
2,3,7,8-TCDF	13.8				13C-2,3,7,8-TCDF	99.3	24 - 169	
1,2,3,7,8-PeCDF	11.0				13C-1,2,3,7,8-PeCDF	104	24 - 185	
2,3,4,7,8-PeCDF	11.0				13C-2,3,4,7,8-PeCDF	104	21 - 178	
1,2,3,4,7,8-HxCDF	18.6				13C-1,2,3,4,7,8-HxCDF	95.3	26 - 152	
1,2,3,6,7,8-HxCDF	5.24				13C-1,2,3,6,7,8-HxCDF	92.0	26 - 123	
2,3,4,6,7,8-HxCDF	4.00				13C-2,3,4,6,7,8-HxCDF	93.7	28 - 136	
1,2,3,7,8,9-HxCDF	1.18			J	13C-1,2,3,7,8,9-HxCDF	93.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	57.1				13C-1,2,3,4,6,7,8-HpCDF	86.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	5.18				13C-1,2,3,4,7,8,9-HpCDF	86.0	26 - 138	
OCDF	118				13C-OCDF	87.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	115	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      17.5

<b>TOTALS</b>				
Total TCDD	5.22		5.60	
Total PeCDD	9.37		11.4	
Total HxCDD	175			
Total HpCDD	1580			
Total TCDF	45.9		46.5	
Total PeCDF	63.5			
Total HxCDF	169			
Total HpCDF	218			

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: USMPDI-054SG-201009** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002171-07      Date Received: 13-Oct-2020 12:04
Project: GascoSiltronic: US Moorings	Sample Size: 26.2 g	QC Batch: B0J0169      Date Extracted: 19-Oct-2020 8:44
Date Collected: 09-Oct-2020 14:50	% Solids: 38.5	Date Analyzed : 09-Nov-20 23:13      Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.175		IS 13C-2,3,7,8-TCDD	99.9	25 - 164	
1,2,3,7,8-PeCDD	0.409			J	13C-1,2,3,7,8-PeCDD	99.0	25 - 181	
1,2,3,4,7,8-HxCDD	0.489			J	13C-1,2,3,4,7,8-HxCDD	94.7	32 - 141	
1,2,3,6,7,8-HxCDD	2.70				13C-1,2,3,6,7,8-HxCDD	90.9	28 - 130	
1,2,3,7,8,9-HxCDD	1.16			J	13C-1,2,3,7,8,9-HxCDD	96.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	85.8				13C-1,2,3,4,6,7,8-HpCDD	86.7	23 - 140	
OCDD	865				13C-OCDD	72.8	17 - 157	
2,3,7,8-TCDF	7.10				13C-2,3,7,8-TCDF	97.0	24 - 169	
1,2,3,7,8-PeCDF	6.25				13C-1,2,3,7,8-PeCDF	100	24 - 185	
2,3,4,7,8-PeCDF	3.77				13C-2,3,4,7,8-PeCDF	96.3	21 - 178	
1,2,3,4,7,8-HxCDF	8.03				13C-1,2,3,4,7,8-HxCDF	92.5	26 - 152	
1,2,3,6,7,8-HxCDF	2.26			J	13C-1,2,3,6,7,8-HxCDF	89.6	26 - 123	
2,3,4,6,7,8-HxCDF	1.02			J	13C-2,3,4,6,7,8-HxCDF	88.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.660			J	13C-1,2,3,7,8,9-HxCDF	90.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	11.0				13C-1,2,3,4,6,7,8-HpCDF	81.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.65			J	13C-1,2,3,4,7,8,9-HpCDF	78.7	26 - 138	
OCDF	28.2				13C-OCDF	68.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	111	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)**  
 TEQMinWHO2005Dioxin      5.32

<b>TOTALS</b>		
Total TCDD	3.01	3.18
Total PeCDD	3.50	4.27
Total HxCDD	29.6	
Total HpCDD	245	
Total TCDF	22.8	24.8
Total PeCDF	23.3	
Total HxCDF	27.9	
Total HpCDF	34.1	

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

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

**Sample ID: Method Blank**

**EPA Method 1668A**

Matrix: Solid	QC Batch: B0J0186	Lab Sample: B0J0186-BLK1
Sample Size: 5.00 g	Date Extracted: 20-Oct-2020 8:46	Date Analyzed: 26-Oct-20 12:33 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	ND	0.433			PCB-44	ND	0.617		
PCB-2	ND	0.411			PCB-45	ND	0.628		
PCB-3	ND	0.424			PCB-46	ND	0.649		
PCB-4/10	ND	2.00			PCB-47	ND	0.551		
PCB-5/8	ND	1.52			PCB-48/75	ND	0.454		
PCB-6	ND	1.47			PCB-50	ND	0.523		
PCB-7/9	ND	1.57			PCB-51	ND	0.506		
PCB-11	ND	1.35			PCB-52/69	ND	0.462		
PCB-12/13	ND	1.48			PCB-53	ND	0.541		
PCB-14	ND	1.49			PCB-54	ND	0.426		
PCB-15	ND	1.47			PCB-55	ND	0.389		
PCB-16/32	ND	0.785			PCB-56/60	ND	0.446		
PCB-17	ND	0.958			PCB-57	ND	0.376		
PCB-18	ND	0.888			PCB-58	ND	0.363		
PCB-19	ND	0.970			PCB-61/70	ND	0.415		
PCB-20/21/33	ND	0.658			PCB-62	ND	0.451		
PCB-22	ND	0.636			PCB-63	ND	0.408		
PCB-23	ND	0.701			PCB-65	ND	0.396		
PCB-24/27	ND	0.671			PCB-66/76	ND	0.376		
PCB-25	ND	0.652			PCB-67	ND	0.404		
PCB-26	ND	0.656			PCB-68	ND	0.398		
PCB-28	ND	0.604			PCB-73	ND	0.374		
PCB-29	ND	0.693			PCB-74	ND	0.369		
PCB-30	ND	0.598			PCB-77	ND	0.434		
PCB-31	ND	0.597			PCB-78	ND	0.418		
PCB-34	ND	0.655			PCB-79	ND	0.399		
PCB-35	ND	0.681			PCB-80	ND	0.383		
PCB-36	ND	0.661			PCB-81	ND	0.454		
PCB-37	ND	0.705			PCB-82	ND	0.720		
PCB-38	ND	0.676			PCB-83	ND	0.416		
PCB-39	ND	0.720			PCB-84/92	ND	0.657		
PCB-40	ND	0.844			PCB-85/116	ND	0.540		
PCB-41/64/71/72	ND	0.428			PCB-86	ND	0.681		
PCB-42/59	ND	0.484			PCB-87/117/125	ND	0.488		
PCB-43/49	ND	0.531			PCB-88/91	ND	0.640		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

See



**Sample ID: Method Blank**

**EPA Method 1668A**

Matrix: Solid	QC Batch: B0J0186	Lab Sample: B0J0186-BLK1
Sample Size: 5.00 g	Date Extracted: 20-Oct-2020 8:46	Date Analyzed: 26-Oct-20 12:33 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	ND	0.605			PCB-137	ND	0.387		
PCB-90/101	ND	0.596			PCB-138/163/164	ND	0.325		
PCB-93	ND	0.729			PCB-139/149	ND		0.731	
PCB-94	ND	0.718			PCB-140	ND	0.574		
PCB-95/98/102	ND	0.566			PCB-141	ND	0.419		
PCB-96	ND	0.454			PCB-142	ND	0.462		
PCB-97	ND	0.594			PCB-144	ND	0.577		
PCB-99	ND	0.506			PCB-145	ND	0.383		
PCB-100	ND	0.549			PCB-146/165	ND	0.343		
PCB-103	ND	0.559			PCB-147	ND	0.546		
PCB-104	ND	0.466			PCB-148	ND	0.541		
PCB-105	ND	0.402			PCB-150	ND	0.421		
PCB-106/118	ND	0.447			PCB-151	ND	0.579		
PCB-107/109	ND	0.419			PCB-152	ND	0.384		
PCB-108/112	ND	0.527			PCB-153	ND	0.325		
PCB-110	ND	0.437			PCB-154	ND	0.496		
PCB-111/115	ND	0.398			PCB-155	ND	0.437		
PCB-113	ND	0.442			PCB-156	ND	0.331		
PCB-114	ND	0.376			PCB-157	ND	0.355		
PCB-119	ND	0.422			PCB-158/160	ND	0.336		
PCB-120	ND	0.380			PCB-159	ND	0.280		
PCB-121	ND	0.399			PCB-166	ND	0.298		
PCB-122	ND	0.454			PCB-167	ND	0.312		
PCB-123	ND	0.469			PCB-168	ND	0.323		
PCB-124	ND	0.402			PCB-169	ND	0.353		
PCB-126	ND	0.398			PCB-170	ND	0.561		
PCB-127	ND	0.387			PCB-171	ND	0.524		
PCB-128/162	ND	0.375			PCB-172	ND	0.501		
PCB-129	ND	0.481			PCB-173	ND	0.579		
PCB-130	ND	0.486			PCB-174	ND	0.509		
PCB-131/133	ND	0.424			PCB-175	ND	0.479		
PCB-132/161	ND	0.340			PCB-176	ND	0.350		
PCB-134/143	ND	0.459			PCB-177	ND	0.540		
PCB-135	ND	0.494			PCB-178	ND	0.486		
PCB-136	ND	0.446			PCB-179	ND	0.353		

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

See

**Sample ID: Method Blank**

**EPA Method 1668A**

Matrix: Solid	QC Batch: B0J0186	Lab Sample: B0J0186-BLK1
Sample Size: 5.00 g	Date Extracted: 20-Oct-2020 8:46	Date Analyzed: 26-Oct-20 12:33 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	ND	0.488			Total octaCB	ND		0.673	
PCB-181	ND	0.468			Total nonaCB	ND		0.455	
PCB-182/187	ND	0.430			DecaCB	ND		0.606	
PCB-183	ND	0.448			Total PCB	ND			
PCB-184	ND	0.372							
PCB-185	ND	0.490							
PCB-186	ND	0.345							
PCB-188	ND	0.355							
PCB-189	ND	0.381							
PCB-190	ND	0.425							
PCB-191	ND	0.403							
PCB-192	ND	0.377							
PCB-193	ND	0.411							
PCB-194	ND		0.673						
PCB-195	ND	0.382							
PCB-196/203	ND	0.430							
PCB-197	ND	0.318							
PCB-198	ND	0.454							
PCB-199	ND	0.445							
PCB-200	ND	0.337							
PCB-201	ND	0.342							
PCB-202	ND	0.309							
PCB-204	ND	0.316							
PCB-205	ND	0.309							
PCB-206	ND	0.455							
PCB-207	ND	0.331							
PCB-208	ND	0.325							
PCB-209	ND	0.606							
Total monoCB	ND	0.433							
Total diCB	ND	2.00							
Total triCB	ND	0.970							
Total tetraCB	ND	0.844							
Total pentaCB	ND	0.729							
Total hexaCB	ND		0.731						
Total heptaCB	ND	0.579							

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

See

**Sample ID: Method Blank**

**EPA Method 1668A**

Matrix: Solid	QC Batch: B0J0186	Lab Sample: B0J0186-BLK1
Sample Size: 5.00 g	Date Extracted: 20-Oct-2020 8:46	Date Analyzed: 26-Oct-20 12:33 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	56.9	15 - 150		13C-PCB-157	86.2	25 - 150	
13C-PCB-3	59.8	15 - 150		13C-PCB-159	89.5	25 - 150	
13C-PCB-4	76.3	25 - 150		13C-PCB-167	87.2	25 - 150	
13C-PCB-11	80.6	25 - 150		13C-PCB-169	83.3	25 - 150	
13C-PCB-9	78.2	25 - 150		13C-PCB-170	88.1	25 - 150	
13C-PCB-19	67.7	25 - 150		13C-PCB-180	89.7	25 - 150	
13C-PCB-28	81.2	25 - 150		13C-PCB-188	90.6	25 - 150	
13C-PCB-32	68.6	25 - 150		13C-PCB-189	86.8	25 - 150	
13C-PCB-37	80.8	25 - 150		13C-PCB-194	88.3	25 - 150	
13C-PCB-47	88.1	25 - 150		13C-PCB-202	82.7	25 - 150	
13C-PCB-52	86.2	25 - 150		13C-PCB-206	91.0	25 - 150	
13C-PCB-54	82.7	25 - 150		13C-PCB-208	78.2	25 - 150	
13C-PCB-70	86.5	25 - 150		13C-PCB-209	121	25 - 150	
13C-PCB-77	82.9	25 - 150		CRS 13C-PCB-79	87.0	30 - 135	
13C-PCB-80	85.0	25 - 150		13C-PCB-178	82.2	30 - 135	
13C-PCB-81	85.5	25 - 150					
13C-PCB-95	88.4	25 - 150					
13C-PCB-97	89.1	25 - 150					
13C-PCB-101	87.5	25 - 150					
13C-PCB-104	87.4	25 - 150					
13C-PCB-105	102	25 - 150					
13C-PCB-114	102	25 - 150					
13C-PCB-118	85.6	25 - 150					
13C-PCB-123	89.2	25 - 150					
13C-PCB-126	93.8	25 - 150					
13C-PCB-127	102	25 - 150					
13C-PCB-138	91.6	25 - 150					
13C-PCB-141	90.7	25 - 150					
13C-PCB-153	92.4	25 - 150					
13C-PCB-155	75.2	25 - 150					
13C-PCB-156	86.4	25 - 150					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

See

**Sample ID: OPR**

**EPA Method 1668A**

Matrix: Solid  
Sample Size: 5.00 g

QC Batch: B0J0186  
Date Extracted: 20-Oct-2020 8:46

Lab Sample: B0J0186-BS1  
Date Analyzed: 26-Oct-20 10:33 Column: ZB-1

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
PCB-1	1160	1000	116	50 - 150	IS 13C-PCB-1	59.8	15 - 140
PCB-3	1160	1000	116	50 - 150	IS 13C-PCB-3	61.6	15 - 140
PCB-4/10	2480	2000	124	50 - 150	IS 13C-PCB-4	77.2	30 - 140
PCB-15	1240	1000	124	50 - 150	IS 13C-PCB-11	81.6	30 - 140
PCB-19	1090	1000	109	50 - 150	IS 13C-PCB-9	78.7	30 - 140
PCB-37	1280	1000	128	50 - 150	IS 13C-PCB-19	68.5	30 - 140
PCB-54	1160	1000	116	50 - 150	IS 13C-PCB-28	84.8	30 - 140
PCB-77	1110	1000	111	50 - 150	IS 13C-PCB-32	68.9	30 - 140
PCB-81	1100	1000	110	50 - 150	IS 13C-PCB-37	87.1	30 - 140
PCB-104	1120	1000	112	50 - 150	IS 13C-PCB-47	87.6	30 - 140
PCB-105	1180	1000	118	50 - 150	IS 13C-PCB-52	86.4	30 - 140
PCB-106/118	2260	2000	113	50 - 150	IS 13C-PCB-54	82.8	30 - 140
PCB-114	1190	1000	119	50 - 150	IS 13C-PCB-70	88.5	30 - 140
PCB-123	1110	1000	111	50 - 150	IS 13C-PCB-77	89.1	30 - 140
PCB-126	1210	1000	121	50 - 150	IS 13C-PCB-80	88.8	30 - 140
PCB-155	1120	1000	112	50 - 150	IS 13C-PCB-81	89.8	30 - 140
PCB-156	1120	1000	112	50 - 150	IS 13C-PCB-95	90.1	30 - 140
PCB-157	1120	1000	112	50 - 150	IS 13C-PCB-97	95.5	30 - 140
PCB-167	1150	1000	115	50 - 150	IS 13C-PCB-101	92.3	30 - 140
PCB-169	1130	1000	113	50 - 150	IS 13C-PCB-104	90.4	30 - 140
PCB-188	1090	1000	109	50 - 150	IS 13C-PCB-105	110	30 - 140
PCB-189	1100	1000	110	50 - 150	IS 13C-PCB-114	109	30 - 140
PCB-202	1040	1000	104	50 - 150	IS 13C-PCB-118	91.7	30 - 140
PCB-205	1150	1000	115	50 - 150	IS 13C-PCB-123	93.6	30 - 140
PCB-206	1120	1000	112	50 - 150	IS 13C-PCB-126	101	30 - 140
PCB-208	1130	1000	113	50 - 150	IS 13C-PCB-127	113	30 - 140
PCB-209	1080	1000	108	50 - 150	IS 13C-PCB-138	92.6	30 - 140
					IS 13C-PCB-141	91.1	30 - 140
					IS 13C-PCB-153	93.7	30 - 140
					IS 13C-PCB-155	79.3	30 - 140
					IS 13C-PCB-156	90.2	30 - 140
					IS 13C-PCB-157	88.4	30 - 140
					IS 13C-PCB-159	90.5	30 - 140
					IS 13C-PCB-167	88.8	30 - 140
					IS 13C-PCB-169	85.5	30 - 140
					IS 13C-PCB-170	92.4	30 - 140
					IS 13C-PCB-180	93.3	30 - 140
					IS 13C-PCB-188	97.2	30 - 140
					IS 13C-PCB-189	85.1	30 - 140
					IS 13C-PCB-194	95.3	30 - 140

**Sample ID: OPR**

**EPA Method 1668A**

Matrix: Solid  
Sample Size: 5.00 g

QC Batch: B0J0186  
Date Extracted: 20-Oct-2020 8:46

Lab Sample: B0J0186-BS1  
Date Analyzed: 26-Oct-20 10:33 Column: ZB-1

Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
					IS 13C-PCB-202	89.7	30 - 140
					IS 13C-PCB-206	96.3	30 - 140
					IS 13C-PCB-208	81.4	30 - 140
					IS 13C-PCB-209	125	30 - 140
					CRS 13C-PCB-79	94.9	25 - 125
					CRS 13C-PCB-178	86.6	25 - 125

LCL-UCL - Lower control limit - upper control limit

**Sample ID: USMPDI-041SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-01	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	14.3 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 0:00	% Solids:	35.0	Date Analyzed :	27-Oct-20 16:58	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	5.10				PCB-44	162			
PCB-2	15.1				PCB-45	20.1			
PCB-3	5.78				PCB-46	9.73			
PCB-4/10	19.2				PCB-47	102			
PCB-5/8	34.2				PCB-48/75	27.6			
PCB-6	8.88				PCB-50	ND		1.35	
PCB-7/9	3.48			J	PCB-51	18.9			
PCB-11	80.8				PCB-52/69	234			
PCB-12/13	7.54			J	PCB-53	34.5			
PCB-14	ND	0.678			PCB-54	ND		4.47	
PCB-15	41.9				PCB-55	3.90			J
PCB-16/32	39.2				PCB-56/60	120			
PCB-17	33.0				PCB-57	ND		1.27	
PCB-18	56.3				PCB-58	1.14			J
PCB-19	21.5				PCB-61/70	258			
PCB-20/21/33	52.9				PCB-62	ND	0.360		
PCB-22	34.8				PCB-63	8.54			
PCB-23	ND	0.577			PCB-65	ND	0.317		
PCB-24/27	6.76			J	PCB-66/76	204			
PCB-25	13.8				PCB-67	5.58			
PCB-26	23.5				PCB-68	3.70			J
PCB-28	120				PCB-73	1.40			J
PCB-29	ND	0.570			PCB-74	90.0			
PCB-30	ND	0.447			PCB-77	25.4			
PCB-31	94.5				PCB-78	1.17			J
PCB-34	ND		1.33		PCB-79	5.60			
PCB-35	ND		3.55		PCB-80	ND	0.264		
PCB-36	ND	0.536			PCB-81	ND		1.92	
PCB-37	48.5				PCB-82	ND		39.4	
PCB-38	3.24			J	PCB-83	ND	0.376		
PCB-39	ND	0.584			PCB-84/92	186			
PCB-40	30.2				PCB-85/116	69.8			
PCB-41/64/71/72	139				PCB-86	ND	0.617		
PCB-42/59	52.7				PCB-87/117/125	138			
PCB-43/49	172				PCB-88/91	69.1			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-041SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-01	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	14.3 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 0:00	% Solids:	35.0	Date Analyzed :	27-Oct-20 16:58	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	ND		3.16		PCB-137	22.2			
PCB-90/101	481				PCB-138/163/164	633			
PCB-93	ND	0.657			PCB-139/149	403			
PCB-94	4.51			J	PCB-140	ND		3.75	
PCB-95/98/102	301				PCB-141	113			
PCB-96	4.25			J	PCB-142	ND	0.698		
PCB-97	115				PCB-144	20.8			
PCB-99	196				PCB-145	ND	0.279		
PCB-100	8.26				PCB-146/165	102			
PCB-103	9.01				PCB-147	11.7			
PCB-104	ND		0.914		PCB-148	ND		1.57	
PCB-105	167				PCB-150	2.06			J
PCB-106/118	401				PCB-151	135			
PCB-107/109	32.0				PCB-152	ND	0.279		
PCB-108/112	17.9				PCB-153	582			
PCB-110	442				PCB-154	ND		11.0	
PCB-111/115	5.75			J	PCB-155	ND		0.467	
PCB-113	ND		1.50		PCB-156	56.6			
PCB-114	9.60				PCB-157	13.8			
PCB-119	14.1				PCB-158/160	63.1			
PCB-120	2.11			J	PCB-159	ND	0.449		
PCB-121	ND	0.359			PCB-166	ND		1.53	
PCB-122	5.36				PCB-167	24.2			
PCB-123	8.56				PCB-168	ND	0.489		
PCB-124	17.2				PCB-169	ND	0.571		
PCB-126	3.08			J	PCB-170	170			
PCB-127	ND	0.498			PCB-171	49.0			
PCB-128/162	93.5				PCB-172	29.9			
PCB-129	23.0				PCB-173	ND		2.99	
PCB-130	32.4				PCB-174	164			
PCB-131/133	19.6				PCB-175	6.60			
PCB-132/161	143				PCB-176	19.3			
PCB-134/143	31.8				PCB-177	110			
PCB-135	70.8				PCB-178	40.3			
PCB-136	75.8				PCB-179	76.7			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-041SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-01
Project:	GascoSiltronic: US Moorings	Sample Size:	14.3 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 0:00	% Solids:	35.0	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 16:58 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	393				Total octaCB	361		377	
PCB-181	3.00			J	Total nonaCB	93.6			
PCB-182/187	223				DecaCB	93.5			
PCB-183	91.6				Total PCB	9890			
PCB-184	1.12			J					
PCB-185	19.5								
PCB-186	ND		0.296						
PCB-188	ND		0.712						
PCB-189	7.18								
PCB-190	34.4								
PCB-191	6.62								
PCB-192	ND	0.499							
PCB-193	21.8								
PCB-194	86.0								
PCB-195	32.9								
PCB-196/203	104								
PCB-197	ND		3.30						
PCB-198	6.17								
PCB-199	97.1								
PCB-200	10.8								
PCB-201	ND		12.5						
PCB-202	20.6								
PCB-204	ND	0.631							
PCB-205	3.31			J					
PCB-206	63.7								
PCB-207	8.48								
PCB-208	21.4								
PCB-209	93.5								
Total monoCB	26.0								
Total diCB	196								
Total triCB	547		552						
Total tetraCB	1730		1740						
Total pentaCB	2710		2750						
Total hexaCB	2670		2690						
Total heptaCB	1470								

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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



**Sample ID: USMPDI-041SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-01
Project:	GascoSiltronic: US Moorings	Sample Size:	14.3 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 0:00	% Solids:	35.0	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 16:58 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	56.1	15 -150		13C-PCB-170	89.8	25 -150	
13C-PCB-3	57.5	15 -150		13C-PCB-180	90.3	25 -150	
13C-PCB-4	81.7	25 -150		13C-PCB-188	89.6	25 -150	
13C-PCB-11	83.3	25 -150		13C-PCB-189	84.4	25 -150	
13C-PCB-9	83.1	25 -150		13C-PCB-194	121	25 -150	
13C-PCB-19	64.8	25 -150		13C-PCB-202	86.8	25 -150	
13C-PCB-28	91.5	25 -150		13C-PCB-206	115	25 -150	
13C-PCB-32	64.4	25 -150		13C-PCB-208	97.7	25 -150	
13C-PCB-37	89.8	25 -150		13C-PCB-209	154	25 -150	H
13C-PCB-47	87.9	25 -150		CRS 13C-PCB-79	97.7	30 -135	
13C-PCB-52	87.0	25 -150		13C-PCB-178	82.9	30 -135	
13C-PCB-54	80.8	25 -150					
13C-PCB-70	89.0	25 -150					
13C-PCB-77	89.0	25 -150					
13C-PCB-80	90.4	25 -150					
13C-PCB-81	91.2	25 -150					
13C-PCB-95	89.0	25 -150					
13C-PCB-97	94.0	25 -150					
13C-PCB-101	91.3	25 -150					
13C-PCB-104	88.8	25 -150					
13C-PCB-105	115	25 -150					
13C-PCB-114	118	25 -150					
13C-PCB-118	89.5	25 -150					
13C-PCB-123	91.1	25 -150					
13C-PCB-126	104	25 -150					
13C-PCB-127	117	25 -150					
13C-PCB-138	86.7	25 -150					
13C-PCB-141	88.9	25 -150					
13C-PCB-153	92.0	25 -150					
13C-PCB-155	88.7	25 -150					
13C-PCB-156	86.5	25 -150					
13C-PCB-157	86.8	25 -150					
13C-PCB-159	88.3	25 -150					
13C-PCB-167	88.6	25 -150					
13C-PCB-169	79.8	25 -150					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-042SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-02	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	13.5 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 13:43	% Solids:	37.3	Date Analyzed :	27-Oct-20 17:59	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	5.06				PCB-44	138			
PCB-2	17.6				PCB-45	18.6			
PCB-3	5.75				PCB-46	8.37			
PCB-4/10	19.3				PCB-47	91.6			
PCB-5/8	37.5				PCB-48/75	24.8			
PCB-6	9.46				PCB-50	1.34			J
PCB-7/9	4.22			J	PCB-51	16.6			
PCB-11	70.6				PCB-52/69	187			
PCB-12/13	7.01			J	PCB-53	28.6			
PCB-14	ND	0.545			PCB-54	4.52			J
PCB-15	48.6				PCB-55	2.74			J
PCB-16/32	41.1				PCB-56/60	98.0			
PCB-17	29.5				PCB-57	1.11			J
PCB-18	52.2				PCB-58	1.30			J
PCB-19	20.8				PCB-61/70	212			
PCB-20/21/33	63.5				PCB-62	ND	0.278		
PCB-22	38.9				PCB-63	ND		6.31	
PCB-23	ND	0.470			PCB-65	ND	0.244		
PCB-24/27	ND		6.64		PCB-66/76	173			
PCB-25	13.8				PCB-67	5.19			
PCB-26	22.2				PCB-68	3.33			J
PCB-28	126				PCB-73	ND	0.219		
PCB-29	0.698			J	PCB-74	76.6			
PCB-30	ND	0.341			PCB-77	ND		20.2	
PCB-31	102				PCB-78	ND		0.758	
PCB-34	ND		1.30		PCB-79	4.46			J
PCB-35	2.95			J	PCB-80	ND	0.194		
PCB-36	ND	0.402			PCB-81	1.60			J
PCB-37	49.1				PCB-82	36.2			
PCB-38	2.79			J	PCB-83	ND	0.347		
PCB-39	ND	0.437			PCB-84/92	139			
PCB-40	28.2				PCB-85/116	50.4			
PCB-41/64/71/72	121				PCB-86	ND	0.569		
PCB-42/59	48.4				PCB-87/117/125	97.3			
PCB-43/49	150				PCB-88/91	ND		49.4	

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-042SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-02
Project:	GascoSiltronic: US Moorings	Sample Size:	13.5 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 13:43	% Solids:	37.3	QC Batch:	B0J0186
				Date Analyzed:	27-Oct-20 17:59
				Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	ND		3.10		PCB-137	16.7			
PCB-90/101	364				PCB-138/163/164	487			
PCB-93	ND	0.581			PCB-139/149	311			
PCB-94	3.07			J	PCB-140	ND		2.11	
PCB-95/98/102	220				PCB-141	87.0			
PCB-96	ND		3.77		PCB-142	ND	0.591		
PCB-97	83.8				PCB-144	ND		17.1	
PCB-99	151				PCB-145	ND	0.246		
PCB-100	7.88				PCB-146/165	86.1			
PCB-103	8.09				PCB-147	11.3			
PCB-104	ND		0.588		PCB-148	ND		1.16	
PCB-105	119				PCB-150	ND		1.42	
PCB-106/118	301				PCB-151	113			
PCB-107/109	23.9				PCB-152	0.782			J
PCB-108/112	12.3				PCB-153	472			
PCB-110	324				PCB-154	10.4			
PCB-111/115	3.86			J	PCB-155	0.493			J
PCB-113	0.954			J	PCB-156	43.3			
PCB-114	5.31				PCB-157	ND		9.51	
PCB-119	12.0				PCB-158/160	46.2			
PCB-120	ND	0.317			PCB-159	ND	0.412		
PCB-121	ND	0.318			PCB-166	1.54			J
PCB-122	ND		3.64		PCB-167	18.5			
PCB-123	5.88				PCB-168	ND		0.923	
PCB-124	12.4				PCB-169	ND	0.473		
PCB-126	2.30			J	PCB-170	149			
PCB-127	ND	0.550			PCB-171	38.4			
PCB-128/162	73.9				PCB-172	23.2			
PCB-129	15.3				PCB-173	ND		2.56	
PCB-130	25.2				PCB-174	138			
PCB-131/133	15.1				PCB-175	4.89			J
PCB-132/161	110				PCB-176	17.0			
PCB-134/143	23.2				PCB-177	89.3			
PCB-135	52.6				PCB-178	31.3			
PCB-136	61.3				PCB-179	67.2			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

See individual congeners for qualifiers.

**Sample ID: USMPDI-042SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-02
Project:	GascoSiltronic: US Moorings	Sample Size:	13.5 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 13:43	% Solids:	37.3	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 17:59 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	347				Total octaCB	301		336	
PCB-181	2.03			J	Total nonaCB	92.8			
PCB-182/187	193				DecaCB	75.6			
PCB-183	79.6				Total PCB	8020			
PCB-184	0.826			J					
PCB-185	18.0								
PCB-186	ND	0.327							
PCB-188	ND		0.869						
PCB-189	ND		4.31						
PCB-190	29.3								
PCB-191	5.77								
PCB-192	ND	0.355							
PCB-193	18.9								
PCB-194	75.0								
PCB-195	21.6								
PCB-196/203	95.7								
PCB-197	3.37			J					
PCB-198	ND		4.59						
PCB-199	92.7								
PCB-200	ND		9.42						
PCB-201	12.4								
PCB-202	ND		18.4						
PCB-204	ND		0.551						
PCB-205	ND		2.53						
PCB-206	59.5								
PCB-207	9.73								
PCB-208	23.6								
PCB-209	75.6								
Total monoCB	28.4								
Total diCB	197								
Total triCB	566		574						
Total tetraCB	1450		1470						
Total pentaCB	1980		2040						
Total hexaCB	2080		2110						
Total heptaCB	1250		1260						

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-042SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-02	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	13.5 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 13:43	% Solids:	37.3	Date Analyzed :	27-Oct-20 17:59	Column:	ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	69.0	15 -150		13C-PCB-170	106	25 -150	
13C-PCB-3	71.2	15 -150		13C-PCB-180	110	25 -150	
13C-PCB-4	97.6	25 -150		13C-PCB-188	112	25 -150	
13C-PCB-11	84.0	25 -150		13C-PCB-189	98.2	25 -150	
13C-PCB-9	97.4	25 -150		13C-PCB-194	137	25 -150	
13C-PCB-19	69.2	25 -150		13C-PCB-202	100	25 -150	
13C-PCB-28	97.6	25 -150		13C-PCB-206	140	25 -150	
13C-PCB-32	78.7	25 -150		13C-PCB-208	86.2	25 -150	
13C-PCB-37	100	25 -150		13C-PCB-209	186	25 -150	H
13C-PCB-47	102	25 -150		CRS 13C-PCB-79	92.8	30 -135	
13C-PCB-52	100	25 -150		13C-PCB-178	78.5	30 -135	
13C-PCB-54	89.5	25 -150					
13C-PCB-70	107	25 -150					
13C-PCB-77	106	25 -150					
13C-PCB-80	109	25 -150					
13C-PCB-81	108	25 -150					
13C-PCB-95	104	25 -150					
13C-PCB-97	108	25 -150					
13C-PCB-101	105	25 -150					
13C-PCB-104	97.9	25 -150					
13C-PCB-105	138	25 -150					
13C-PCB-114	144	25 -150					
13C-PCB-118	102	25 -150					
13C-PCB-123	103	25 -150					
13C-PCB-126	128	25 -150					
13C-PCB-127	143	25 -150					
13C-PCB-138	108	25 -150					
13C-PCB-141	109	25 -150					
13C-PCB-153	112	25 -150					
13C-PCB-155	102	25 -150					
13C-PCB-156	100	25 -150					
13C-PCB-157	101	25 -150					
13C-PCB-159	101	25 -150					
13C-PCB-167	103	25 -150					
13C-PCB-169	97.1	25 -150					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-043SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-03
Project:	GascoSiltronic: US Moorings	Sample Size:	14.3 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 9:03	% Solids:	35.1	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 18:59 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	4.55			J	PCB-44	148			
PCB-2	10.3				PCB-45	19.6			
PCB-3	5.17				PCB-46	8.84			
PCB-4/10	17.5				PCB-47	95.1			
PCB-5/8	28.9				PCB-48/75	26.0			
PCB-6	7.12				PCB-50	1.20			J
PCB-7/9	3.15			J	PCB-51	17.2			
PCB-11	69.8				PCB-52/69	203			
PCB-12/13	8.02			J	PCB-53	31.1			
PCB-14	ND	0.578			PCB-54	4.25			J
PCB-15	40.2				PCB-55	ND		2.93	
PCB-16/32	36.9				PCB-56/60	107			
PCB-17	27.5				PCB-57	1.24			J
PCB-18	49.3				PCB-58	1.10			J
PCB-19	19.9				PCB-61/70	222			
PCB-20/21/33	51.4				PCB-62	ND	0.357		
PCB-22	31.3				PCB-63	7.98			
PCB-23	ND	0.461			PCB-65	ND	0.314		
PCB-24/27	6.66			J	PCB-66/76	182			
PCB-25	13.0				PCB-67	4.12			J
PCB-26	21.6				PCB-68	ND		1.94	
PCB-28	112				PCB-73	ND		1.10	
PCB-29	ND	0.456			PCB-74	81.6			
PCB-30	ND	0.487			PCB-77	21.9			
PCB-31	89.3				PCB-78	ND		0.776	
PCB-34	ND	0.430			PCB-79	4.78			J
PCB-35	ND		2.72		PCB-80	ND	0.261		
PCB-36	ND	0.401			PCB-81	1.28			J
PCB-37	43.3				PCB-82	39.2			
PCB-38	ND		2.17		PCB-83	ND	0.558		
PCB-39	ND	0.437			PCB-84/92	160			
PCB-40	27.2				PCB-85/116	54.1			
PCB-41/64/71/72	128				PCB-86	ND	0.915		
PCB-42/59	44.1				PCB-87/117/125	112			
PCB-43/49	158				PCB-88/91	60.8			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-043SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-03	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	14.3 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 9:03	% Solids:	35.1	Date Analyzed:	27-Oct-20 18:59	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	ND	0.829			PCB-137	19.2			
PCB-90/101	403				PCB-138/163/164	516			
PCB-93	ND	0.978			PCB-139/149	354			
PCB-94	ND		2.62		PCB-140	ND		1.86	
PCB-95/98/102	246				PCB-141	94.1			
PCB-96	3.78			J	PCB-142	ND	0.579		
PCB-97	90.3				PCB-144	21.0			
PCB-99	163				PCB-145	ND	0.343		
PCB-100	7.35				PCB-146/165	90.3			
PCB-103	ND		6.55		PCB-147	ND		11.1	
PCB-104	ND		0.838		PCB-148	ND		1.28	
PCB-105	128				PCB-150	ND		1.47	
PCB-106/118	328				PCB-151	123			
PCB-107/109	27.9				PCB-152	ND		0.646	
PCB-108/112	14.5				PCB-153	502			
PCB-110	363				PCB-154	9.32			
PCB-111/115	ND		3.94		PCB-155	ND		0.699	
PCB-113	ND	0.605			PCB-156	46.0			
PCB-114	6.80				PCB-157	10.9			
PCB-119	12.8				PCB-158/160	49.7			
PCB-120	ND	0.510			PCB-159	ND	0.379		
PCB-121	ND	0.535			PCB-166	ND		1.11	
PCB-122	4.01			J	PCB-167	19.9			
PCB-123	ND		5.72		PCB-168	ND	0.405		
PCB-124	ND		13.1		PCB-169	ND	0.440		
PCB-126	2.46			J	PCB-170	148			
PCB-127	ND	0.448			PCB-171	40.8			
PCB-128/162	77.1				PCB-172	23.5			
PCB-129	18.5				PCB-173	ND		3.77	
PCB-130	30.1				PCB-174	152			
PCB-131/133	16.5				PCB-175	6.20			
PCB-132/161	119				PCB-176	18.0			
PCB-134/143	25.5				PCB-177	93.8			
PCB-135	54.9				PCB-178	33.6			
PCB-136	72.6				PCB-179	68.5			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-043SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-03
Project:	GascoSiltronic: US Moorings	Sample Size:	14.3 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 9:03	% Solids:	35.1	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 18:59 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	352				Total octaCB	318		347	
PCB-181	2.30			J	Total nonaCB	82.7			
PCB-182/187	188				DecaCB	87.9			
PCB-183	81.8				Total PCB	8510			
PCB-184	ND		0.647						
PCB-185	18.8								
PCB-186	ND	0.363							
PCB-188	ND		0.630						
PCB-189	6.34								
PCB-190	29.4								
PCB-191	ND		5.26						
PCB-192	ND	0.409							
PCB-193	18.9								
PCB-194	76.6								
PCB-195	20.0								
PCB-196/203	99.6								
PCB-197	ND		2.98						
PCB-198	5.25								
PCB-199	96.6								
PCB-200	ND		11.0						
PCB-201	ND		11.8						
PCB-202	19.6								
PCB-204	ND	0.601							
PCB-205	ND		3.20						
PCB-206	54.8								
PCB-207	8.49								
PCB-208	19.4								
PCB-209	87.9								
Total monoCB	20.0								
Total diCB	175								
Total triCB	501		506						
Total tetraCB	1550								
Total pentaCB	2230		2260						
Total hexaCB	2270		2290						
Total heptaCB	1280		1290						

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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



**Sample ID: USMPDI-043SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-03
Project:	GascoSiltronic: US Moorings	Sample Size:	14.3 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 9:03	% Solids:	35.1	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 18:59 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	56.3	15 -150		13C-PCB-170	92.2	25 -150	
13C-PCB-3	57.5	15 -150		13C-PCB-180	91.8	25 -150	
13C-PCB-4	78.4	25 -150		13C-PCB-188	92.8	25 -150	
13C-PCB-11	71.9	25 -150		13C-PCB-189	83.8	25 -150	
13C-PCB-9	79.3	25 -150		13C-PCB-194	110	25 -150	
13C-PCB-19	56.8	25 -150		13C-PCB-202	82.1	25 -150	
13C-PCB-28	88.3	25 -150		13C-PCB-206	105	25 -150	
13C-PCB-32	64.1	25 -150		13C-PCB-208	78.7	25 -150	
13C-PCB-37	87.7	25 -150		13C-PCB-209	140	25 -150	
13C-PCB-47	84.2	25 -150		CRS 13C-PCB-79	94.9	30 -135	
13C-PCB-52	83.8	25 -150		13C-PCB-178	78.3	30 -135	
13C-PCB-54	79.0	25 -150					
13C-PCB-70	85.8	25 -150					
13C-PCB-77	89.3	25 -150					
13C-PCB-80	86.8	25 -150					
13C-PCB-81	90.0	25 -150					
13C-PCB-95	81.1	25 -150					
13C-PCB-97	87.9	25 -150					
13C-PCB-101	83.2	25 -150					
13C-PCB-104	79.6	25 -150					
13C-PCB-105	117	25 -150					
13C-PCB-114	120	25 -150					
13C-PCB-118	82.7	25 -150					
13C-PCB-123	84.0	25 -150					
13C-PCB-126	106	25 -150					
13C-PCB-127	118	25 -150					
13C-PCB-138	91.1	25 -150					
13C-PCB-141	91.8	25 -150					
13C-PCB-153	92.7	25 -150					
13C-PCB-155	79.8	25 -150					
13C-PCB-156	87.3	25 -150					
13C-PCB-157	85.7	25 -150					
13C-PCB-159	85.0	25 -150					
13C-PCB-167	87.6	25 -150					
13C-PCB-169	85.2	25 -150					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-047SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-04
Project:	GascoSiltronic: US Moorings	Sample Size:	13.6 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 15:56	% Solids:	37.3	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 20:00 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	8.42				PCB-44	240			
PCB-2	12.9				PCB-45	31.7			
PCB-3	8.92				PCB-46	ND		13.4	
PCB-4/10	23.9				PCB-47	171			
PCB-5/8	50.5				PCB-48/75	45.6			
PCB-6	11.5				PCB-50	1.49			J
PCB-7/9	5.06			J	PCB-51	35.8			
PCB-11	69.7				PCB-52/69	339			
PCB-12/13	10.5				PCB-53	48.8			
PCB-14	ND	0.510			PCB-54	5.89			
PCB-15	59.7				PCB-55	3.74			J
PCB-16/32	60.6				PCB-56/60	186			
PCB-17	46.0				PCB-57	2.24			J
PCB-18	82.4				PCB-58	2.01			J
PCB-19	25.4				PCB-61/70	397			
PCB-20/21/33	92.5				PCB-62	ND	0.339		
PCB-22	55.8				PCB-63	14.9			
PCB-23	ND	0.610			PCB-65	ND	0.298		
PCB-24/27	9.23			J	PCB-66/76	318			
PCB-25	21.3				PCB-67	8.70			
PCB-26	34.1				PCB-68	2.82			J
PCB-28	191				PCB-73	ND		3.18	
PCB-29	ND	0.603			PCB-74	139			
PCB-30	ND	0.441			PCB-77	35.9			
PCB-31	154				PCB-78	ND		1.18	
PCB-34	ND		1.85		PCB-79	7.47			
PCB-35	ND		3.66		PCB-80	ND	0.232		
PCB-36	ND	0.518			PCB-81	2.26			J
PCB-37	70.7				PCB-82	56.5			
PCB-38	ND		4.00		PCB-83	ND	0.240		
PCB-39	ND	0.564			PCB-84/92	242			
PCB-40	47.5				PCB-85/116	78.3			
PCB-41/64/71/72	205				PCB-86	ND		1.82	
PCB-42/59	81.2				PCB-87/117/125	159			
PCB-43/49	281				PCB-88/91	91.7			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-047SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-04	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	13.6 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 15:56	% Solids:	37.3	Date Analyzed :	27-Oct-20 20:00	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	ND		4.86		PCB-137	21.3			
PCB-90/101	628				PCB-138/163/164	728			
PCB-93	ND	0.407			PCB-139/149	529			
PCB-94	5.84				PCB-140	ND		6.52	
PCB-95/98/102	395				PCB-141	143			
PCB-96	ND		4.10		PCB-142	ND		0.594	
PCB-97	144				PCB-144	29.8			
PCB-99	258				PCB-145	ND	0.278		
PCB-100	14.7				PCB-146/165	136			
PCB-103	15.4				PCB-147	17.2			
PCB-104	ND	0.333			PCB-148	ND		2.89	
PCB-105	181				PCB-150	3.60			J
PCB-106/118	488				PCB-151	185			
PCB-107/109	39.4				PCB-152	ND		0.643	
PCB-108/112	23.8				PCB-153	742			
PCB-110	549				PCB-154	18.2			
PCB-111/115	6.68			J	PCB-155	ND		0.762	
PCB-113	ND		2.53		PCB-156	62.5			
PCB-114	ND		9.09		PCB-157	ND		11.7	
PCB-119	21.1				PCB-158/160	68.4			
PCB-120	ND		2.43		PCB-159	ND	0.351		
PCB-121	ND	0.223			PCB-166	ND		1.82	
PCB-122	5.44				PCB-167	23.6			
PCB-123	7.40				PCB-168	ND	0.380		
PCB-124	17.3				PCB-169	ND	0.427		
PCB-126	2.83			J	PCB-170	218			
PCB-127	ND	0.432			PCB-171	60.1			
PCB-128/162	98.3				PCB-172	34.6			
PCB-129	21.9				PCB-173	4.72			J
PCB-130	48.4				PCB-174	237			
PCB-131/133	24.5				PCB-175	7.93			
PCB-132/161	179				PCB-176	29.4			
PCB-134/143	ND		34.7		PCB-177	148			
PCB-135	91.9				PCB-178	52.2			
PCB-136	103				PCB-179	108			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-047SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-04
Project:	GascoSiltronic: US Moorings	Sample Size:	13.6 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 15:56	% Solids:	37.3	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 20:00 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	526				Total octaCB	505		509	
PCB-181	3.93			J	Total nonaCB	161			
PCB-182/187	296				DecaCB	161			
PCB-183	126				Total PCB	13300			
PCB-184	ND	0.378							
PCB-185	25.7								
PCB-186	ND	0.350							
PCB-188	ND		0.859						
PCB-189	ND		7.15						
PCB-190	46.3								
PCB-191	7.96								
PCB-192	ND	0.385							
PCB-193	28.6								
PCB-194	110								
PCB-195	39.3								
PCB-196/203	145								
PCB-197	ND		4.02						
PCB-198	6.95								
PCB-199	138								
PCB-200	16.8								
PCB-201	17.1								
PCB-202	26.0								
PCB-204	ND	0.437							
PCB-205	4.90			J					
PCB-206	113								
PCB-207	13.0								
PCB-208	35.3								
PCB-209	161								
Total monoCB	30.2								
Total diCB	231								
Total triCB	843		853						
Total tetraCB	2650		2670						
Total pentaCB	3430		3460						
Total hexaCB	3270		3330						
Total heptaCB	1960		1970						

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-047SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-04
Project:	GascoSiltronic: US Moorings	Sample Size:	13.6 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 15:56	% Solids:	37.3	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 20:00 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	58.0	15 -150		13C-PCB-170	92.9	25 -150	
13C-PCB-3	60.4	15 -150		13C-PCB-180	92.5	25 -150	
13C-PCB-4	80.6	25 -150		13C-PCB-188	90.3	25 -150	
13C-PCB-11	77.4	25 -150		13C-PCB-189	88.0	25 -150	
13C-PCB-9	82.0	25 -150		13C-PCB-194	103	25 -150	
13C-PCB-19	58.1	25 -150		13C-PCB-202	84.2	25 -150	
13C-PCB-28	89.0	25 -150		13C-PCB-206	103	25 -150	
13C-PCB-32	66.1	25 -150		13C-PCB-208	80.7	25 -150	
13C-PCB-37	90.1	25 -150		13C-PCB-209	133	25 -150	
13C-PCB-47	84.1	25 -150		CRS 13C-PCB-79	90.5	30 -135	
13C-PCB-52	82.9	25 -150		13C-PCB-178	73.4	30 -135	
13C-PCB-54	78.5	25 -150					
13C-PCB-70	87.3	25 -150					
13C-PCB-77	87.6	25 -150					
13C-PCB-80	89.7	25 -150					
13C-PCB-81	88.2	25 -150					
13C-PCB-95	88.4	25 -150					
13C-PCB-97	90.2	25 -150					
13C-PCB-101	92.0	25 -150					
13C-PCB-104	81.4	25 -150					
13C-PCB-105	114	25 -150					
13C-PCB-114	118	25 -150					
13C-PCB-118	88.2	25 -150					
13C-PCB-123	90.0	25 -150					
13C-PCB-126	106	25 -150					
13C-PCB-127	117	25 -150					
13C-PCB-138	88.5	25 -150					
13C-PCB-141	89.5	25 -150					
13C-PCB-153	91.6	25 -150					
13C-PCB-155	87.1	25 -150					
13C-PCB-156	86.1	25 -150					
13C-PCB-157	85.6	25 -150					
13C-PCB-159	85.7	25 -150					
13C-PCB-167	88.5	25 -150					
13C-PCB-169	86.0	25 -150					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-050SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-05	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	14.8 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 9:52	% Solids:	34.6	Date Analyzed :	28-Oct-20 09:17 Column: ZB-1		

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	ND		2.70		PCB-44	187			
PCB-2	8.37				PCB-45	23.8			
PCB-3	4.50			J	PCB-46	11.2			
PCB-4/10	13.8				PCB-47	91.2			
PCB-5/8	26.2				PCB-48/75	43.0			
PCB-6	6.39				PCB-50	ND		1.08	
PCB-7/9	ND		2.64		PCB-51	14.6			
PCB-11	64.9				PCB-52/69	226			
PCB-12/13	5.66			J	PCB-53	31.8			
PCB-14	ND	0.611			PCB-54	3.04			J
PCB-15	35.7				PCB-55	3.44			J
PCB-16/32	40.4				PCB-56/60	158			
PCB-17	31.7				PCB-57	1.51			J
PCB-18	60.8				PCB-58	ND		1.30	
PCB-19	15.8				PCB-61/70	299			
PCB-20/21/33	66.8				PCB-62	ND	0.354		
PCB-22	46.5				PCB-63	11.6			
PCB-23	ND	0.584			PCB-65	ND	0.311		
PCB-24/27	6.42			J	PCB-66/76	247			
PCB-25	13.0				PCB-67	ND		7.11	
PCB-26	27.7				PCB-68	1.87			J
PCB-28	152				PCB-73	ND	0.275		
PCB-29	ND	0.577			PCB-74	118			
PCB-30	ND	0.396			PCB-77	32.6			
PCB-31	145				PCB-78	ND	0.274		
PCB-34	ND	0.545			PCB-79	4.34			J
PCB-35	ND		3.39		PCB-80	ND	0.255		
PCB-36	ND	0.485			PCB-81	ND		0.943	
PCB-37	61.0				PCB-82	32.5			
PCB-38	ND	0.496			PCB-83	ND	0.263		
PCB-39	ND	0.528			PCB-84/92	134			
PCB-40	37.0				PCB-85/116	46.8			
PCB-41/64/71/72	167				PCB-86	ND	0.430		
PCB-42/59	65.2				PCB-87/117/125	92.8			
PCB-43/49	187				PCB-88/91	50.7			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-050SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-05	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	14.8 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 9:52	% Solids:	34.6	Date Analyzed :	28-Oct-20 09:17 Column: ZB-1		

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	3.42			J	PCB-137	11.3			
PCB-90/101	341				PCB-138/163/164	374			
PCB-93	5.83				PCB-139/149	286			
PCB-94	3.38			J	PCB-140	3.42			J
PCB-95/98/102	206				PCB-141	71.1			
PCB-96	2.59			J	PCB-142	ND	0.541		
PCB-97	85.4				PCB-144	ND		16.2	
PCB-99	139				PCB-145	ND	0.182		
PCB-100	6.13				PCB-146/165	66.5			
PCB-103	6.03				PCB-147	ND		6.65	
PCB-104	ND	0.335			PCB-148	ND		1.38	
PCB-105	104				PCB-150	ND	0.200		
PCB-106/118	273				PCB-151	92.3			
PCB-107/109	22.9				PCB-152	ND	0.183		
PCB-108/112	14.3				PCB-153	370			
PCB-110	313				PCB-154	9.66			
PCB-111/115	3.95			J	PCB-155	ND	0.208		
PCB-113	1.38			J	PCB-156	32.3			
PCB-114	6.26				PCB-157	7.79			
PCB-119	9.56				PCB-158/160	38.0			
PCB-120	ND	0.240			PCB-159	5.23			
PCB-121	0.259			J	PCB-166	ND		0.827	
PCB-122	3.31			J	PCB-167	13.2			
PCB-123	4.99				PCB-168	ND	0.379		
PCB-124	10.5				PCB-169	ND	0.396		
PCB-126	1.92			J	PCB-170	113			
PCB-127	ND	0.419			PCB-171	31.4			
PCB-128/162	53.4				PCB-172	19.7			
PCB-129	13.7				PCB-173	ND		1.84	
PCB-130	22.8				PCB-174	119			
PCB-131/133	11.2				PCB-175	4.87			J
PCB-132/161	94.5				PCB-176	14.9			
PCB-134/143	18.7				PCB-177	73.4			
PCB-135	44.0				PCB-178	26.0			
PCB-136	50.6				PCB-179	52.6			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-050SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-05
Project:	GascoSiltronic: US Moorings	Sample Size:	14.8 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 9:52	% Solids:	34.6	QC Batch:	B0J0186
				Date Analyzed :	28-Oct-20 09:17 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	274				Total octaCB	255		275	
PCB-181	ND		1.93		Total nonaCB	65.4			
PCB-182/187	154				DecaCB	65.1			
PCB-183	63.9				Total PCB	7810			
PCB-184	0.351			J					
PCB-185	13.3								
PCB-186	ND	0.234							
PCB-188	ND	0.241							
PCB-189	4.95								
PCB-190	23.8								
PCB-191	4.31			J					
PCB-192	ND	0.263							
PCB-193	15.8								
PCB-194	60.5								
PCB-195	25.0								
PCB-196/203	79.9								
PCB-197	ND		2.77						
PCB-198	3.10			J					
PCB-199	70.2								
PCB-200	ND		8.21						
PCB-201	ND		8.25						
PCB-202	14.1								
PCB-204	ND	0.231							
PCB-205	2.67			J					
PCB-206	45.3								
PCB-207	5.91								
PCB-208	14.2								
PCB-209	65.1								
Total monoCB	12.9		15.6						
Total diCB	153		155						
Total triCB	668		671						
Total tetraCB	1970		1980						
Total pentaCB	1920								
Total hexaCB	1690		1710						
Total heptaCB	1010								

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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



**Sample ID: USMPDI-050SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-05
Project:	GascoSiltronic: US Moorings	Sample Size:	14.8 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 9:52	% Solids:	34.6	QC Batch:	B0J0186
				Date Analyzed :	28-Oct-20 09:17 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	62.9	15 -150		13C-PCB-170	92.3	25 -150	
13C-PCB-3	65.9	15 -150		13C-PCB-180	92.1	25 -150	
13C-PCB-4	85.2	25 -150		13C-PCB-188	89.9	25 -150	
13C-PCB-11	82.2	25 -150		13C-PCB-189	91.5	25 -150	
13C-PCB-9	87.2	25 -150		13C-PCB-194	101	25 -150	
13C-PCB-19	67.2	25 -150		13C-PCB-202	89.2	25 -150	
13C-PCB-28	88.7	25 -150		13C-PCB-206	102	25 -150	
13C-PCB-32	72.6	25 -150		13C-PCB-208	88.8	25 -150	
13C-PCB-37	93.6	25 -150		13C-PCB-209	136	25 -150	
13C-PCB-47	88.4	25 -150		CRS 13C-PCB-79	92.9	30 -135	
13C-PCB-52	87.9	25 -150		13C-PCB-178	80.1	30 -135	
13C-PCB-54	82.7	25 -150					
13C-PCB-70	92.3	25 -150					
13C-PCB-77	95.5	25 -150					
13C-PCB-80	91.7	25 -150					
13C-PCB-81	94.6	25 -150					
13C-PCB-95	92.0	25 -150					
13C-PCB-97	94.0	25 -150					
13C-PCB-101	90.3	25 -150					
13C-PCB-104	87.4	25 -150					
13C-PCB-105	111	25 -150					
13C-PCB-114	110	25 -150					
13C-PCB-118	94.2	25 -150					
13C-PCB-123	98.1	25 -150					
13C-PCB-126	104	25 -150					
13C-PCB-127	113	25 -150					
13C-PCB-138	90.4	25 -150					
13C-PCB-141	90.6	25 -150					
13C-PCB-153	91.6	25 -150					
13C-PCB-155	91.3	25 -150					
13C-PCB-156	89.3	25 -150					
13C-PCB-157	89.7	25 -150					
13C-PCB-159	91.3	25 -150					
13C-PCB-167	90.3	25 -150					
13C-PCB-169	86.1	25 -150					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-051SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-06	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	14.0 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 10:58	% Solids:	36.0	Date Analyzed :	27-Oct-20 22:00	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	1.74			J	PCB-44	21.0			
PCB-2	3.33			J	PCB-45	ND		2.96	
PCB-3	2.26			J	PCB-46	ND		1.49	
PCB-4/10	5.31			J	PCB-47	9.32			
PCB-5/8	10.8				PCB-48/75	ND		3.90	
PCB-6	ND	0.483			PCB-50	ND	0.278		
PCB-7/9	ND	0.515			PCB-51	2.04			J
PCB-11	10.1				PCB-52/69	24.7			
PCB-12/13	ND	0.479			PCB-53	4.18			J
PCB-14	ND	0.483			PCB-54	ND		0.560	
PCB-15	8.87				PCB-55	ND		0.432	
PCB-16/32	9.31			J	PCB-56/60	14.7			
PCB-17	5.68				PCB-57	0.385			J
PCB-18	10.6				PCB-58	ND	0.170		
PCB-19	3.42			J	PCB-61/70	24.8			
PCB-20/21/33	10.8			J	PCB-62	ND	0.234		
PCB-22	6.49				PCB-63	ND		0.898	
PCB-23	ND	0.465			PCB-65	ND	0.206		
PCB-24/27	ND		1.40		PCB-66/76	20.0			
PCB-25	2.22			J	PCB-67	ND		0.661	
PCB-26	3.86			J	PCB-68	0.482			J
PCB-28	18.6				PCB-73	ND	0.187		
PCB-29	ND	0.460			PCB-74	9.24			
PCB-30	ND	0.337			PCB-77	2.14			J
PCB-31	14.2				PCB-78	ND	0.181		
PCB-34	ND	0.434			PCB-79	0.827			J
PCB-35	ND	0.411			PCB-80	ND	0.162		
PCB-36	ND	0.399			PCB-81	ND		0.172	
PCB-37	7.19				PCB-82	5.75			
PCB-38	ND	0.408			PCB-83	ND	0.309		
PCB-39	ND	0.434			PCB-84/92	23.8			
PCB-40	ND		4.37		PCB-85/116	8.42			J
PCB-41/64/71/72	18.6			J	PCB-86	ND	0.506		
PCB-42/59	7.22			J	PCB-87/117/125	18.4			
PCB-43/49	17.7				PCB-88/91	7.60			J

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-051SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-06
Project:	GascoSiltronic: US Moorings	Sample Size:	14.0 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 10:58	% Solids:	36.0	QC Batch:	B0J0186
				Date Analyzed:	27-Oct-20 22:00 Column: ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	0.590			J	PCB-137	ND		3.77	
PCB-90/101	56.0				PCB-138/163/164	74.1			
PCB-93	ND		1.46		PCB-139/149	50.6			
PCB-94	ND	0.540			PCB-140	ND	0.431		
PCB-95/98/102	37.9				PCB-141	14.5			
PCB-96	ND	0.356			PCB-142	ND	0.338		
PCB-97	13.6				PCB-144	ND		2.21	
PCB-99	20.3				PCB-145	ND	0.288		
PCB-100	ND	0.431			PCB-146/165	10.8			
PCB-103	1.10			J	PCB-147	1.58			J
PCB-104	ND	0.366			PCB-148	ND	0.406		
PCB-105	16.4				PCB-150	ND	0.315		
PCB-106/118	40.4				PCB-151	ND		13.9	
PCB-107/109	3.39			J	PCB-152	ND	0.288		
PCB-108/112	ND		2.27		PCB-153	63.1			
PCB-110	59.6				PCB-154	ND		0.838	
PCB-111/115	0.488			J	PCB-155	ND	0.327		
PCB-113	ND	0.335			PCB-156	6.18			
PCB-114	0.777			J	PCB-157	2.11			J
PCB-119	ND		1.05		PCB-158/160	9.27			J
PCB-120	ND	0.282			PCB-159	ND	0.216		
PCB-121	ND	0.300			PCB-166	ND	0.230		
PCB-122	0.615			J	PCB-167	ND		2.57	
PCB-123	ND		0.654		PCB-168	ND	0.237		
PCB-124	1.81			J	PCB-169	ND	0.229		
PCB-126	0.472			J	PCB-170	17.2			
PCB-127	ND	0.283			PCB-171	ND		3.79	
PCB-128/162	14.5				PCB-172	3.24			J
PCB-129	4.09			J	PCB-173	0.497			J
PCB-130	5.94				PCB-174	18.7			
PCB-131/133	2.65			J	PCB-175	ND		0.769	
PCB-132/161	21.2				PCB-176	2.31			J
PCB-134/143	4.67			J	PCB-177	10.0			
PCB-135	9.19				PCB-178	3.79			J
PCB-136	8.99				PCB-179	ND		6.84	

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

See individual congeners for qualifiers.

**Sample ID: USMPDI-051SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-06
Project:	GascoSiltronic: US Moorings	Sample Size:	14.0 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 10:58	% Solids:	36.0	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 22:00 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	39.6				Total octaCB	35.5		38.4	
PCB-181	ND		0.334		Total nonaCB	8.93			
PCB-182/187	18.9				DecaCB	4.99			
PCB-183	ND		8.06		Total PCB	1100			
PCB-184	ND	0.267							
PCB-185	2.10			J					
PCB-186	ND	0.247							
PCB-188	ND	0.255							
PCB-189	ND	0.252							
PCB-190	3.76			J					
PCB-191	ND		0.349						
PCB-192	ND	0.257							
PCB-193	1.98			J					
PCB-194	9.59								
PCB-195	3.16			J					
PCB-196/203	10.8								
PCB-197	ND	0.383							
PCB-198	ND	0.546							
PCB-199	10.3								
PCB-200	ND		0.763						
PCB-201	1.03			J					
PCB-202	ND		2.21						
PCB-204	ND	0.380							
PCB-205	0.564			J					
PCB-206	6.08								
PCB-207	1.05			J					
PCB-208	1.81			J					
PCB-209	4.99								
Total monoCB	7.33								
Total diCB	35.1								
Total triCB	92.3		93.7						
Total tetraCB	177		193						
Total pentaCB	317		323						
Total hexaCB	303		327						
Total heptaCB	122		142						

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-051SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-06
Project:	GascoSiltronic: US Moorings	Sample Size:	14.0 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 10:58	% Solids:	36.0	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 22:00 Column: ZB-1

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	46.6	15 -150		13C-PCB-170	98.7	25 -150	
13C-PCB-3	50.4	15 -150		13C-PCB-180	99.1	25 -150	
13C-PCB-4	69.2	25 -150		13C-PCB-188	91.5	25 -150	
13C-PCB-11	76.9	25 -150		13C-PCB-189	98.3	25 -150	
13C-PCB-9	73.0	25 -150		13C-PCB-194	90.1	25 -150	
13C-PCB-19	57.7	25 -150		13C-PCB-202	90.5	25 -150	
13C-PCB-28	88.6	25 -150		13C-PCB-206	92.5	25 -150	
13C-PCB-32	60.6	25 -150		13C-PCB-208	71.8	25 -150	
13C-PCB-37	90.0	25 -150		13C-PCB-209	123	25 -150	
13C-PCB-47	81.3	25 -150		CRS 13C-PCB-79	94.7	30 -135	
13C-PCB-52	82.0	25 -150		13C-PCB-178	76.6	30 -135	
13C-PCB-54	74.2	25 -150					
13C-PCB-70	86.5	25 -150					
13C-PCB-77	90.9	25 -150					
13C-PCB-80	87.1	25 -150					
13C-PCB-81	91.2	25 -150					
13C-PCB-95	85.4	25 -150					
13C-PCB-97	89.0	25 -150					
13C-PCB-101	87.6	25 -150					
13C-PCB-104	80.0	25 -150					
13C-PCB-105	112	25 -150					
13C-PCB-114	111	25 -150					
13C-PCB-118	90.7	25 -150					
13C-PCB-123	92.3	25 -150					
13C-PCB-126	105	25 -150					
13C-PCB-127	112	25 -150					
13C-PCB-138	88.4	25 -150					
13C-PCB-141	87.4	25 -150					
13C-PCB-153	87.9	25 -150					
13C-PCB-155	88.1	25 -150					
13C-PCB-156	90.7	25 -150					
13C-PCB-157	89.0	25 -150					
13C-PCB-159	84.4	25 -150					
13C-PCB-167	88.6	25 -150					
13C-PCB-169	92.6	25 -150					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-054SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-07
Project:	GascoSiltronic: US Moorings	Sample Size:	13.4 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 14:50	% Solids:	38.5	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 23:01 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-1	8.95				PCB-44	282			
PCB-2	9.93				PCB-45	30.6			
PCB-3	9.79				PCB-46	15.1			
PCB-4/10	21.0				PCB-47	118			
PCB-5/8	41.5				PCB-48/75	42.7			
PCB-6	9.85				PCB-50	ND		1.22	
PCB-7/9	4.47			J	PCB-51	21.6			
PCB-11	46.3				PCB-52/69	449			
PCB-12/13	ND	0.540			PCB-53	43.4			
PCB-14	ND	0.545			PCB-54	4.42			J
PCB-15	43.9				PCB-55	4.60			J
PCB-16/32	54.5				PCB-56/60	182			
PCB-17	40.8				PCB-57	ND		1.60	
PCB-18	59.1				PCB-58	1.69			J
PCB-19	20.1				PCB-61/70	440			
PCB-20/21/33	80.7				PCB-62	ND	0.405		
PCB-22	48.5				PCB-63	12.3			
PCB-23	ND	0.479			PCB-65	ND	0.356		
PCB-24/27	7.45			J	PCB-66/76	299			
PCB-25	18.2				PCB-67	7.41			
PCB-26	32.4				PCB-68	2.08			J
PCB-28	176				PCB-73	1.73			J
PCB-29	ND	0.474			PCB-74	125			
PCB-30	ND	0.435			PCB-77	34.3			
PCB-31	131				PCB-78	1.29			J
PCB-34	1.71			J	PCB-79	8.03			
PCB-35	ND		3.40		PCB-80	ND	0.285		
PCB-36	ND	0.427			PCB-81	4.55			J
PCB-37	54.8				PCB-82	76.8			
PCB-38	2.89			J	PCB-83	ND	0.343		
PCB-39	ND		1.34		PCB-84/92	322			
PCB-40	48.8				PCB-85/116	98.6			
PCB-41/64/71/72	204				PCB-86	ND	0.563		
PCB-42/59	73.7				PCB-87/117/125	240			
PCB-43/49	270				PCB-88/91	99.8			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-054SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data			
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-07	Date Received:	13-Oct-2020 12:04
Project:	GascoSiltronic: US Moorings	Sample Size:	13.4 g	QC Batch:	B0J0186	Date Extracted:	20-Oct-2020 8:46
Date Collected:	09-Oct-2020 14:50	% Solids:	38.5	Date Analyzed :	27-Oct-20 23:01	Column:	ZB-1

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-89	6.12				PCB-137	24.3			
PCB-90/101	800				PCB-138/163/164	794			
PCB-93	ND	0.572			PCB-139/149	580			
PCB-94	4.38			J	PCB-140	6.73			
PCB-95/98/102	517				PCB-141	151			
PCB-96	3.78			J	PCB-142	ND		0.991	
PCB-97	197				PCB-144	37.8			
PCB-99	292				PCB-145	ND	0.194		
PCB-100	ND		8.38		PCB-146/165	134			
PCB-103	ND		11.7		PCB-147	17.6			
PCB-104	ND	0.447			PCB-148	ND		3.19	
PCB-105	238				PCB-150	ND		2.14	
PCB-106/118	577				PCB-151	202			
PCB-107/109	44.1				PCB-152	1.46			J
PCB-108/112	29.9				PCB-153	757			
PCB-110	710				PCB-154	18.0			
PCB-111/115	ND		8.38		PCB-155	ND		0.357	
PCB-113	ND	0.366			PCB-156	68.9			
PCB-114	12.2				PCB-157	14.3			
PCB-119	21.2				PCB-158/160	76.0			
PCB-120	ND	0.314			PCB-159	ND	0.431		
PCB-121	ND	0.313			PCB-166	ND		2.19	
PCB-122	6.68				PCB-167	27.4			
PCB-123	ND		8.92		PCB-168	ND		1.02	
PCB-124	22.9				PCB-169	ND	0.484		
PCB-126	3.53			J	PCB-170	217			
PCB-127	ND	0.476			PCB-171	61.7			
PCB-128/162	108				PCB-172	36.1			
PCB-129	28.8				PCB-173	ND		4.99	
PCB-130	49.7				PCB-174	237			
PCB-131/133	26.5				PCB-175	10.0			
PCB-132/161	213				PCB-176	31.1			
PCB-134/143	42.3				PCB-177	143			
PCB-135	98.4				PCB-178	50.8			
PCB-136	115				PCB-179	110			

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

**Sample ID: USMPDI-054SG-201009**

**EPA Method 1668A**

Client Data		Sample Data		Laboratory Data	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-07
Project:	GascoSiltronic: US Moorings	Sample Size:	13.4 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 14:50	% Solids:	38.5	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 23:01 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers
PCB-180	530				Total octaCB	505		518	
PCB-181	ND	0.389			Total nonaCB	95.7			
PCB-182/187	290				DecaCB	83.5			
PCB-183	132				Total PCB	14200			
PCB-184	0.489			J					
PCB-185	26.9								
PCB-186	ND	0.311							
PCB-188	ND		0.615						
PCB-189	7.82								
PCB-190	46.6								
PCB-191	8.45								
PCB-192	ND	0.314							
PCB-193	ND		24.9						
PCB-194	117								
PCB-195	48.6								
PCB-196/203	145								
PCB-197	ND		5.24						
PCB-198	ND		2.89						
PCB-199	133								
PCB-200	18.0								
PCB-201	19.0								
PCB-202	25.1								
PCB-204	ND	0.303							
PCB-205	ND		4.42						
PCB-206	66.4								
PCB-207	9.20								
PCB-208	20.1								
PCB-209	83.5								
Total monoCB	28.7								
Total diCB	167								
Total triCB	728		733						
Total tetraCB	2730								
Total pentaCB	4320		4360						
Total hexaCB	3590		3600						
Total heptaCB	1940		1970						

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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



**Sample ID: USMPDI-054SG-201009**

**EPA Method 1668A**

<b>Client Data</b>		<b>Sample Data</b>		<b>Laboratory Data</b>	
Name:	Anchor QEA, LLC	Matrix:	Sediment	Lab Sample:	2002171-07
Project:	GascoSiltronic: US Moorings	Sample Size:	13.4 g	Date Received:	13-Oct-2020 12:04
Date Collected:	09-Oct-2020 14:50	% Solids:	38.5	QC Batch:	B0J0186
				Date Analyzed :	27-Oct-20 23:01 Column: ZB-1
				Date Extracted:	20-Oct-2020 8:46

Labeled Standard	%R	LCL-UCL	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
IS 13C-PCB-1	48.4	15 -150		13C-PCB-170	79.0	25 -150	
13C-PCB-3	52.8	15 -150		13C-PCB-180	81.0	25 -150	
13C-PCB-4	68.5	25 -150		13C-PCB-188	76.4	25 -150	
13C-PCB-11	66.6	25 -150		13C-PCB-189	79.7	25 -150	
13C-PCB-9	71.5	25 -150		13C-PCB-194	84.8	25 -150	
13C-PCB-19	52.9	25 -150		13C-PCB-202	73.7	25 -150	
13C-PCB-28	71.8	25 -150		13C-PCB-206	82.0	25 -150	
13C-PCB-32	56.7	25 -150		13C-PCB-208	71.8	25 -150	
13C-PCB-37	76.2	25 -150		13C-PCB-209	108	25 -150	
13C-PCB-47	69.5	25 -150		CRS 13C-PCB-79	77.7	30 -135	
13C-PCB-52	68.5	25 -150		13C-PCB-178	60.2	30 -135	
13C-PCB-54	63.9	25 -150					
13C-PCB-70	71.4	25 -150					
13C-PCB-77	74.6	25 -150					
13C-PCB-80	73.6	25 -150					
13C-PCB-81	75.6	25 -150					
13C-PCB-95	71.6	25 -150					
13C-PCB-97	73.6	25 -150					
13C-PCB-101	73.0	25 -150					
13C-PCB-104	67.5	25 -150					
13C-PCB-105	94.9	25 -150					
13C-PCB-114	97.5	25 -150					
13C-PCB-118	72.7	25 -150					
13C-PCB-123	74.4	25 -150					
13C-PCB-126	86.3	25 -150					
13C-PCB-127	98.7	25 -150					
13C-PCB-138	75.2	25 -150					
13C-PCB-141	79.2	25 -150					
13C-PCB-153	78.5	25 -150					
13C-PCB-155	70.6	25 -150					
13C-PCB-156	76.3	25 -150					
13C-PCB-157	75.9	25 -150					
13C-PCB-159	73.6	25 -150					
13C-PCB-167	75.3	25 -150					
13C-PCB-169	75.6	25 -150					

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

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

## DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2002171  
 4.1°C

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

Project: GascoSiltronic: US Moorings  
 Client: NW Natural

COC ID: VISTA-20201009-155951  
 Sample Custodian: dep  
 Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-041SG-201009	N	SE	10/09/2020	0:00	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	USMPDI-042SG-201009	N	SE	10/09/2020	13:43	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	USMPDI-043SG-201009	N	SE	10/09/2020	9:03	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	USMPDI-047SG-201009	N	SE	10/09/2020	15:56	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
005	USMPDI-050SG-201009	N	SE	10/09/2020	9:52	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								PCB Congeners	E1668A	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
006	USMPDI-051SG-201009	N	SE	10/09/2020	10:58	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C

Comment:  
 — received via email on 10/14/20 @ 1758 —  
 &S 10/15/20

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature Delaney Peterson	Signature rec'd via email	Signature	Signature	Signature	Signature
Print Name Delaney Peterson	Print Name	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company VAL	Company	Company	Company	Company
Date/Time 10.12.20 0733	Date/Time 10/14/20 1758	Date/Time	Date/Time	Date/Time	Date/Time

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2002171  
4.1°C

COC ID: VISTA-20201009-155951  
Sample Custodian: dep  
Lab: VISTA

POC: \* Delaney Peterson (360-715-2707)  
1605 Cornwall Avenue, Bellingham, WA 98225  
Project: GascoSiltronic: US Moorings  
Client: NW Natural

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative	
006	USMPDI-051SG-201009	N	SE	10/09/2020	10:58	1	<input type="checkbox"/>					
									PCB Congeners	E1668A	30	4°C
									Total solids (VISTA)	SM2540G	30	4°C
007	USMPDI-054SG-201009	N	SE	10/09/2020	14:50	1	<input type="checkbox"/>					
									Dioxin/Furans	E1613B	30	4°C
									PCB Congeners	E1668A	30	4°C
									Total solids (VISTA)	SM2540G	30	4°C

Comment:  
— received via email on 10/14/20 @ 1758 —

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Delaney Peterson	Signature: rec'd via email	Signature:	Signature:	Signature:	Signature:
Print Name: Delaney Peterson	Print Name:	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company:	Company:	Company:	Company:	Company:
Date/Time: 10.12.20 0733	Date/Time: 10/14/20 1758	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

# Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: <sup>130B 10/15/20</sup> 2002159 2002171

 TAT Std

<b>Samples Arrival:</b>	<b>Date/Time:</b> 10/13/20 12:04	<b>Initials:</b> WRW	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> NA
<b>Delivered By:</b>	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> GLS	<input type="checkbox"/> DHL
		<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
<b>Preservation:</b>	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Techni Ice
		<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None
<b>Temp °C:</b> 4.1 (uncorrected)	<b>Probe used:</b> Y / <input checked="" type="checkbox"/> N		<b>Thermometer ID:</b> IR-4
<b>Temp °C:</b> 4.1 (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>30f3</u> Trk # <u>7717 7432 7111</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input type="checkbox"/> Retain
		<input type="checkbox"/> Return	<input type="checkbox"/> Dispose
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> 10/15/20 0803 10/14/20 <sup>130B</sup> 0719 <sub>10/15/20</sub>	<b>Initials:</b> KS	<b>Location:</b> WR-2 <b>Shelf/Rack:</b> H-4
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

**EXACT COPY OF THE ORIGINAL**  
**INIT** KS 10/14/20



# CoC/Label Reconciliation Report WO# 2002171

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2002171-01	A USMPDI-041SG-201009	<input checked="" type="checkbox"/>	09-Oct-20 00:00	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2002171-02	A USMPDI-042SG-201009	<input checked="" type="checkbox"/>	09-Oct-20 13:43	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2002171-03	A USMPDI-043SG-201009	<input checked="" type="checkbox"/>	09-Oct-20 09:03	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2002171-04	A USMPDI-047SG-201009	<input checked="" type="checkbox"/>	09-Oct-20 15:56	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2002171-05	A USMPDI-050SG-201009	<input checked="" type="checkbox"/>	09-Oct-20 09:52	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2002171-06	A USMPDI-051SG-201009	<input checked="" type="checkbox"/>	09-Oct-20 10:58	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2002171-07	A USMPDI-054SG-201009	<input checked="" type="checkbox"/>	09-Oct-20 14:50	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid

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

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

Comments:

Verified by/Date: MA 10/15/20

## **EXTRACTION INFORMATION**

Process Sheet  
**Workorder: 2002171**

Prep Expiration: 2021-10-09  
 Client: Anchor QEA, LLC

**Workorder Due: 10-Nov-20 00:00**

TAT: 28

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

Prep Batch: BOJ0169

Prep Data Entered: IM 10/25/20  
Date and Initials

Initial Sequence: Sokouly

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002171-01	<input checked="" type="checkbox"/>	USMPDI-041SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-02	<input checked="" type="checkbox"/>	USMPDI-042SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-03	<input checked="" type="checkbox"/>	USMPDI-043SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-04	<input checked="" type="checkbox"/>	USMPDI-047SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-05	<input checked="" type="checkbox"/>	USMPDI-050SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-06	<input checked="" type="checkbox"/>	USMPDI-051SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-07	<input checked="" type="checkbox"/>	USMPDI-054SG-201009	13-Oct-20 12:04	WR-2 H-4	

**WO Comments: 1613: 10g dw**  
**1668A: 5g dw**

Pre-Prep Check Out: DG 10/16/20  
 Pre-Prep Check In: DG 10/16/20

Prep Check Out: DG 10/19/20  
 Prep Check In: DG 10/19/20

Prep Reconciled Initials/Date: DG 10/16/20  
 Spike Reconciled Initials/Date: IM 10/19/20  
 VialBoxID: BOO!

PREPARATION BENCH SHEET

Matrix: Solid

B0J0169

Chemist: DG

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Oct-20 08:44

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
					IM 10/21/20						
A1	B0J0169-BLK1	NA	(10.00)	EM IM 10/19/20	IM EM 10/21/20	IM 10/21/20	EM 10/25/20	EM 10/25/20	EM 10/25/20	EM 10/25/20	EM IM 10/25/20
A2	B0J0169-BS1	↓	(10.00)				↓				
A3	2002132-01	27.33	27.70				N/A	Brown/yellow/black			
A4	2002157-01	23.23	23.37					Brown/yellow			
A5	2002157-02	25.55	25.63								
A6	2002157-03	27.27	27.57								
A7	2002157-04	27.05	27.28								
A8	2002157-05	27.57	27.68								
A9	2002157-06	26.33	26.46				↓	Brown/yellow/black			
A10	2002157-07	21.00	21.07				IM 10/21/20				
A11	2002171-01	28.55	28.84				N/A	Brown/yellow			
A12	2002171-02	26.85	27.07								
B1	2002171-03	28.49	28.52								
B2	2002171-04	26.77	26.90								
B3	2002171-05	28.94	29.13								

IS: 20F1101, 10ML (V4)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: DG 10/19/20	Soxhlet Siphoned Chemist/Date: EM 10/19/20	Notes: A has unable to remove all of residue from sides of roundbottom for ABSG EM 10/25/20
NS: 20F0107, 10ML (V4)	Start Date/Time: 10/19/20 0402	SOLV: TDI	Check In: DG 10/19/20	IM 10/19/20	
PS/CRS: 20E0701, 10ML (V2)	Stop Date/Time: 10/20/20	Other: N/A	Balance ID: HRMS-8	Vial Transfer Chemist/Date: EM 10/25/20	
RS: 20E0702, 10ML (V1)		Final Volume(s): 20ML CH			

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

B0J0169

Chemist: DG

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Oct-20 08:44

Column Packer: <sup>IM 10/21/20</sup> ~~IM 10/19/20~~ N/A <sup>QUM 10/25/20</sup> ~~QUM 10/25/20~~ <sup>QUM 10/25/20</sup> ~~QUM 10/25/20~~

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
B4	2002171-06	27.79	27.94	QUM IM 10/19/20	IM QUM 10/21/20	N/A	QUM 10/25/20 B	QUM 10/25/20	QUM 10/25/20	QUM IM 10/25/20
B5	2002171-07	26.00	26.20	↓	↓	↓	↓ BROWN YELLOW BLACK	↓	↓	↓

IS: 20F1101, 10 mL (V1)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: DG 10/19/20	Soxhlet Siphoned Chemist/Date: IM 10/19/20	Notes: A) was unable to remove residue from sides of roundbottom for ABSG QUM 10/25/20 B) Brown, yellow QUM 10/25/20
NS: 20F0107, 10 mL (V1)	Start Date/Time	SOLV: TOL	Check In: DG 10/19/20	Vial Transfer Chemist/Date: QUM 10/25/20	
PS/CRS: 20E0701, 10 mL (V2)	10/19/20 0402	Other: N/A	Balance ID: HRMS-8		
RS: 20E0702, 10 mL (V1)	Stop Date/Time 10/20/20	Final Volume(s) 20 mL C14			
Diox/F/PCB PAH PEST PBDE HCB					

- Comments:
- 1 = Sample approached dryness on rotovap
  - 2 = Sample humped 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

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0J0157

Analyst: DG  Analyte: Dried at 110°C±5°C Oven ID: 01 02	Test Code: %Moist/%Solids  Units: %	Data Entry Verified by: (Initial and Date) <i>DG 10/17/20</i>
---	---	--

Inst: HRMS-8      Date/Time IN: 10/16/20 1411      Date/Time OUT: 10/17/20 1230

B		C	D	E		F	G	H	I	K	L	M	N	O	P
Particle Size	SampID	SampType	Intial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	DG 10/16/20		NA		Acid Added	Sample Homogenized*	
			Pan Tare Wt. (gms)	AO 10/17/20					Visual Inspection	CI-	pH Before	pH After			
	2002171-01	Sample	1.2800	10/16/20	6.0200	2.9400	1.6600	35.02	SLUDGE	NA	NA	NA	NA	X	
	2002171-02	Sample	1.2800	10/16/20	5.7900	2.9600	1.6800	37.25	SLUDGE	NA	NA	NA	NA	X	
	2002171-03	Sample	1.2900	10/16/20	6.1900	3.0100	1.7200	35.10	SLUDGE	NA	NA	NA	NA	X	
	2002171-04	Sample	1.2800	10/16/20	5.4300	2.8300	1.5500	37.35	SLUDGE	NA	NA	NA	NA	X	
	2002171-05	Sample	1.2800	10/16/20	6.7200	3.1600	1.8800	34.56	SLUDGE	NA	NA	NA	NA	X	
	2002171-06	Sample	1.2900	10/16/20	6.8200	3.2800	1.9900	35.99	SLUDGE	NA	NA	NA	NA	X	
	2002171-07	Sample	1.2800	10/16/20	6.6100	3.3300	2.0500	38.46	SLUDGE	NA	NA	NA	NA	X	

\*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0J0157

Analyst: <u>DG</u>	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) _____
Analyste:	Units: %	
Oven ID: <u>01</u> 02	Done at 110°C +/- 5°C	

Inst HRMS-8

Date/Time IN 10/16/20 1411      Date/Time OUT 10/17/20 1230

Particle Size	SampID	SampType	Initial and Date: <u>DG 10/16/20</u> <u>D.D 10/17/20</u>		Dry Sample Weight (g)	%Solids RawVal	Visual Inspection				Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)			Dry Pan and Sample Weight (g)	Cl.	pH Before	pH After	
	2002171-01	A	1.28	6.02	2.94						X
	2002171-02		1.28	5.79	2.96						X
	2002171-03		1.29	6.19	3.01						X
	2002171-04		1.28	5.43	2.83						X
	2002171-05		1.28	6.72	3.16						X
	2002171-06		1.29	6.82	3.28						X
	2002171-07	V	1.28	6.61	3.33						X

SLUDGE

NA

\*Sample homogenized in sample container unless otherwise noted

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2002132-01	27.7 ✓	36.59491	10.1368	20 ✓	19-Oct-20 08:44 ✓	EMM ✓			Sediment	1613 Full List
2002157-01	23.37 ✓	43.04348	10.0593	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002157-02	25.63 ✓	39.14082	10.0318	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002157-03	27.57 ✓	36.67426	10.1111	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002157-04	27.28 ✓	36.97271	10.0862	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002157-05	27.68 ✓	36.26834	10.0391	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002157-06	26.46 ✓	37.9845	10.0507	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002157-07	21.07 ✓	47.61905	10.0333	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002171-01	28.84 ✓	35.0211	10.1001	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002171-02	27.07 ✓	37.25056	10.0837	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002171-03	28.52 ✓	35.10204	10.0111	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002171-04	26.9 ✓	37.3494	10.0470	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002171-05	29.13 ✓	34.55883	10.0670	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002171-06	27.94 ✓	35.98553	10.0544	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
2002171-07	26.2 ✓	38.46154	10.0769	20	19-Oct-20 08:44	EMM			Sediment	1613 Full List
<b>B0J0169-BLK1</b>	10 ✓			20 ✓	19-Oct-20 08:44	EMM				QC
<b>B0J0169-BS1</b>	10 ✓			20 ✓	19-Oct-20 08:44 ✓	EMM ✓	20F0107 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) IM 10/25/20



Process Sheet

Workorder: **2002171**

Prep Expiration: 2021-10-09  
Client: Anchor QEA, LLC

Workorder Due: 10-Nov-20 00:00

TAT: 28

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

Prep Batch: B050186

Prep Data Entered: DF 10/23/20  
Date and Initials

Initial Sequence: S050083

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002171-01	<input checked="" type="checkbox"/>	USMPDI-041SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-02	<input checked="" type="checkbox"/>	USMPDI-042SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-03	<input checked="" type="checkbox"/>	USMPDI-043SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-04	<input checked="" type="checkbox"/>	USMPDI-047SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-05	<input checked="" type="checkbox"/>	USMPDI-050SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-06	<input checked="" type="checkbox"/>	USMPDI-051SG-201009	13-Oct-20 12:04	WR-2 H-4	
2002171-07	<input checked="" type="checkbox"/>	USMPDI-054SG-201009	13-Oct-20 12:04	WR-2 H-4	

WO Comments: **1613: 10g dw**  
**1668A: 5g dw**

Pre-Prep Check Out: DG 10/16/20  
Pre-Prep Check In: DG 10/16/20

Prep Check Out: DG 10/20/20  
Prep Check In: DG 10/20/20

Prep Reconciled Initials/Date: DG 10/16/20  
Spike Reconciled Initials/Date: DF 10/20/20  
VialBoxID: HAMBKE

PREPARATION BENCH SHEET

Matrix: Solid

B0J0186

Chemist: DG

Method: 1668A Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 20-Oct-20 08:46

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
A1	B0J0186-BLK1	NA	(5.00)	DF DG 10/21/20	DF DG 10/21/20	NA	DF 10/22/20	NA	NA	DF RP 10/22/20
A2	B0J0186-BS1	NA	(5.00)							
A3	2002114-01	8.93	9.00							
A4	2002114-02	9.31	9.62							
A5	2002114-03	8.26	8.40							
A6	2002129-01	6.94	6.99							
A7	2002129-02	11.91	12.09							
A8	2002132-01	13.66	13.76							
A9	2002157-01	11.62	12.03							
A10	2002157-02	12.77	12.84							
A11	2002157-03	13.63	13.93							
A12	2002157-04	13.52	13.66							
B1	2002157-05	13.79	13.91							
B2	2002157-06	13.16	13.38							
B3	2002157-07 (B)	10.50	10.54	↓	↓	↓	↓	↓	↓	↓

IS: 19B2601, 10mL (V1)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: DG 10/20/20	Soxhlet Siphoned Chemist/Date: DF 10/21/20	Notes:
NS: 19B2602, 10mL (V2)	Start Date/Time	SOLV: Toluene	Check In: DG 10/20/20	Vial Transfer Chemist/Date: DF 10/22/20	
PS/CRS: 19B2603, 10mL (V1)	10/20/20	Other: NA	Balance ID: HRMS-8		
RS: 19B2604, 10mL (V2)	14:40	Final Volume(s) 100mL			
Diox/F PCB PAH PEST PBDE HCB	10/21/20	Cg			

Comments: 07:00  
 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

(B) Sample crystallized during final volume. 1:10 dilution performed. DG 10/22/20

PREPARATION BENCH SHEET

Matrix: Solid

B0J0186

Chemist: DG

Method: 1668A Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 20-Oct-20 08.46

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	
B4	2002171-01	14.28	14.31	DF DG 10/21/20	DF DG 10/21/20	NA	DF 10/22/20	NA	NA	DF RD 10/22/20
B5	2002171-02	13.42	13.49							
B6	2002171-03	14.24	14.32							
B7	2002171-04	13.39	13.60							
B8	2002171-05	14.47	14.75							
B9	2002171-06	13.89	13.98							
B10	2002171-07	13.00	13.37							

⊕ Small amount (~15% of sample) bump out during rotovap. DF 10/21/20

\* DF 10/21/20

IS: 19B2601, 10mL (V1)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: DG 10/20/20	Soxhlet Siphoned Chemist/Date:	Notes:
NS: 19B2602, 10mL (V2)	Start Date/Time: 10/20/20	SOLV: Toluene	Chemist/Date: DG 10/20/20	DF 10/20/20	
PS/CRS: 19B2603, 10mL (V1)	1440	Other: NA	Check In: DG 10/20/20	DF 10/20/20	
RS: 19B2604, 10mL (V2)	Stop Date/Time: 10/21/20 0700	Final Volume(s): 100mL	Balance ID: HRMS-8	Vial Transfer Chemist/Date: DF 10/21/20	
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

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2002114-01	9 ✓	55.97826	5.0380	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002114-02	9.62 ✓	53.71329	5.1672	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002114-03	8.4 ✓	60.53098	5.0846	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002129-01	6.99 ✓	72.01426	5.0338	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002129-02	12.09 ✓	41.98312	5.0758	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002132-01	13.76 ✓	36.59491	5.0355	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002157-01	12.03 ✓	43.04348	5.1781	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002157-02	12.84 ✓	39.14082	5.0257	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002157-03	13.93 ✓	36.67426	5.1087	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002157-04	13.66 ✓	36.97271	5.0505	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002157-05	13.91 ✓	36.26834	5.0449	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002157-06	13.38 ✓	37.9845	5.0823	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002157-07	10.54 ✓	47.61905	5.0190	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002171-01	14.31	35.0211	5.0115	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002171-02	13.49 ✓	37.25056	5.0251	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002171-03	14.32 ✓	35.10204	5.0266	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002171-04	13.6 ✓	37.3494	5.0795	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002171-05	14.75 ✓	34.55883	5.0974	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002171-06	13.98	35.98553	5.0308	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
2002171-07	13.37 ✓	38.46154	5.1423	100	20-Oct-20 08:46	DG			Sediment	1668A Full List
<b>B0J0186-BLK1</b>	<b>5 ✓</b>			<b>100</b>	<b>20-Oct-20 08:46</b>	<b>DG</b>				<b>QC</b>
<b>B0J0186-BS1</b>	<b>5 ✓</b>			<b>100</b>	<b>20-Oct-20 08:46</b>	<b>DG</b>	<b>19B2602 ✓</b>	<b>10 ✓</b>		<b>QC</b>

All bolded data on report verified against written benchsheet by (initial/date) DF 10/23/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_10.qld

Last Altered: Friday, November 06, 2020 12:36:01 Pacific Standard Time

Printed: Friday, November 06, 2020 12:38:25 Pacific Standard Time

*HN 11/06/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

*CT 11/09/2020*

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	10.000	26.230		1.001				0.0312	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.000	30.906		1.000				0.0472	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.000	34.252		1.001				0.0640	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.355		1.000				0.0657	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.000	34.630		1.000				0.0751	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.870	10.000	38.093		1.000				0.0834	
7	7 OCDD			NO	0.872	10.000	41.073		1.000				0.176	
8	8 2,3,7,8-TCDF			NO	0.824	10.000	25.529		1.000				0.0229	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.000	29.658		1.000				0.0240	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.000	30.715		1.000				0.0219	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.000	33.313		1.000				0.0350	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.000	33.445		1.000				0.0320	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.000	34.118		1.000				0.0360	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.000	35.113		1.000				0.0568	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.999	10.000	36.692		1.000				0.0581	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.000	38.718		1.000				0.0604	
17	17 OCDF			NO	0.868	10.000	41.366		1.000				0.111	
18	18 13C-2,3,7,8-TCDD	1.05e6	0.80	NO	1.11	10.000	26.177	26.20	1.029	1.030	154.97	77.5	0.155	
19	19 13C-1,2,3,7,8-PeCDD	8.32e5	0.64	NO	0.859	10.000	30.799	30.90	1.211	1.215	157.89	78.9	0.294	
20	20 13C-1,2,3,4,7,8-HxCDD	5.82e5	1.28	NO	0.700	10.000	34.201	34.22	1.013	1.014	160.08	80.0	0.484	
21	21 13C-1,2,3,6,7,8-HxCDD	7.27e5	1.29	NO	0.833	10.000	34.329	34.34	1.017	1.018	168.22	84.1	0.407	
22	22 13C-1,2,3,7,8,9-HxCDD	6.64e5	1.31	NO	0.762	10.000	34.600	34.62	1.025	1.026	167.96	84.0	0.445	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.38e5	1.10	NO	0.650	10.000	38.039	38.09	1.127	1.129	159.58	79.8	0.627	
24	24 13C-OCDD	8.20e5	0.89	NO	0.539	10.000	40.972	41.07	1.214	1.217	292.90	73.2	0.738	
25	25 13C-2,3,7,8-TCDF	1.42e6	0.76	NO	0.981	10.000	25.511	25.52	1.003	1.003	159.31	79.7	0.192	
26	26 13C-1,2,3,7,8-PeCDF	1.24e6	1.55	NO	0.792	10.000	29.557	29.65	1.162	1.166	171.78	85.9	0.600	
27	27 13C-2,3,4,7,8-PeCDF	1.20e6	1.60	NO	0.778	10.000	30.610	30.72	1.204	1.208	169.16	84.6	0.611	
28	28 13C-1,2,3,4,7,8-HxCDF	7.56e5	0.51	NO	0.954	10.000	33.303	33.31	0.987	0.987	152.64	76.3	0.563	
29	29 13C-1,2,3,6,7,8-HxCDF	8.18e5	0.50	NO	1.01	10.000	33.442	33.45	0.991	0.991	156.60	78.3	0.534	
30	30 13C-2,3,4,6,7,8-HxCDF	7.36e5	0.50	NO	0.921	10.000	34.100	34.11	1.010	1.011	153.86	76.9	0.583	
31	31 13C-1,2,3,7,8,9-HxCDF	6.31e5	0.52	NO	0.803	10.000	35.099	35.11	1.040	1.040	151.19	75.6	0.669	

Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_10.qld

Last Altered: Friday, November 06, 2020 12:36:01 Pacific Standard Time

Printed: Friday, November 06, 2020 12:38:25 Pacific Standard Time

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.37e5	0.43	NO	0.735	10.000	36.665	36.69	1.086	1.087	140.68	70.3	0.504	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.01e5	0.43	NO	0.568	10.000	38.650	38.72	1.145	1.147	136.20	68.1	0.653	
34	34 13C-OCDF	8.59e5	0.84	NO	0.629	10.000	41.262	41.36	1.222	1.225	262.99	65.7	0.505	
35	35 37Cl-2,3,7,8-TCDD	5.34e5			1.09	10.000	26.195	26.22	1.030	1.031	79.999	100	0.0404	
36	36 13C-1,2,3,4-TCDD	1.23e6	0.80	NO	1.00	10.000	25.430	25.43	1.000	1.000	200.00	100	0.172	
37	37 13C-1,2,3,4-TCDF	1.82e6	0.78	NO	1.00	10.000	24.130	23.95	1.000	1.000	200.00	100	0.188	
38	38 13C-1,2,3,4,6,9-HxCDF	1.04e6	0.51	NO	1.00	10.000	33.840	33.75	1.000	1.000	200.00	100	0.537	
39	39 Total Tetra-Dioxins				0.950	10.000	24.620		0.000				0.0166	
40	40 Total Penta-Dioxins				0.885	10.000	29.960		0.000				0.0190	
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0419	
42	42 Total Hepta-Dioxins				0.870	10.000	37.640		0.000				0.0490	
43	43 Total Tetra-Furans				0.824	10.000	23.610		0.000				0.0100	
44	44 1st Func. Penta-Furans				0.963	10.000	27.230		0.000				0.00655	
45	45 Total Penta-Furans				0.963	10.000	29.275		0.000				0.0113	
46	46 Total Hexa-Furans				0.991	10.000	33.555		0.000				0.0200	
47	47 Total Hepta-Furans				0.999	10.000	37.835		0.000				0.0338	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_10.qld

Last Altered: Friday, November 06, 2020 12:36:01 Pacific Standard Time

Printed: Friday, November 06, 2020 12:38:25 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-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\201105R1\201105R1\_10.qld

Last Altered: Friday, November 06, 2020 12:36:01 Pacific Standard Time

Printed: Friday, November 06, 2020 12:38:25 Pacific Standard Time

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-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												

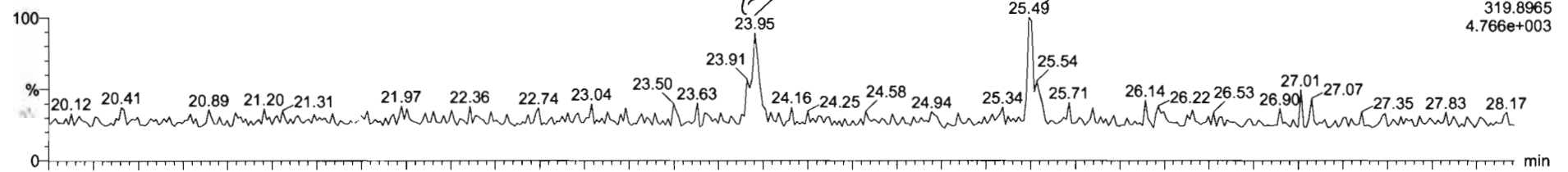
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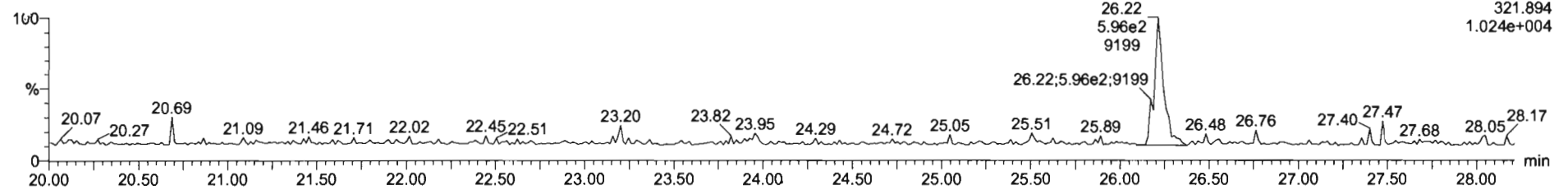
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2,3,7,8-TCDD

201105R1\_10

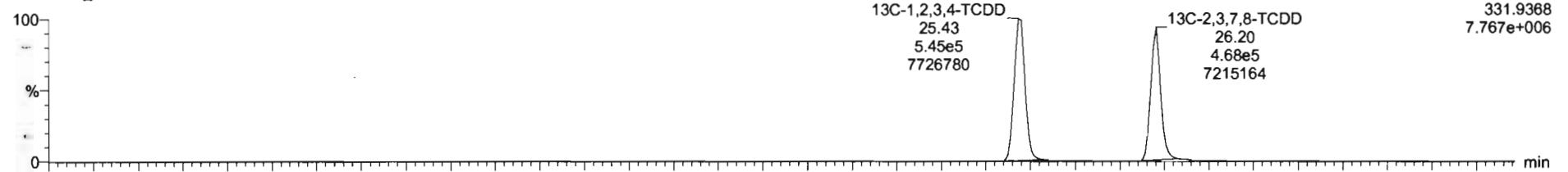


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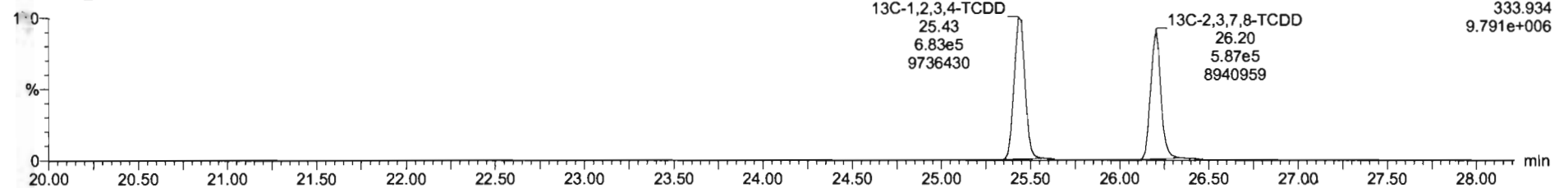


13C-2,3,7,8-TCDD

201105R1\_10



201105R1\_10



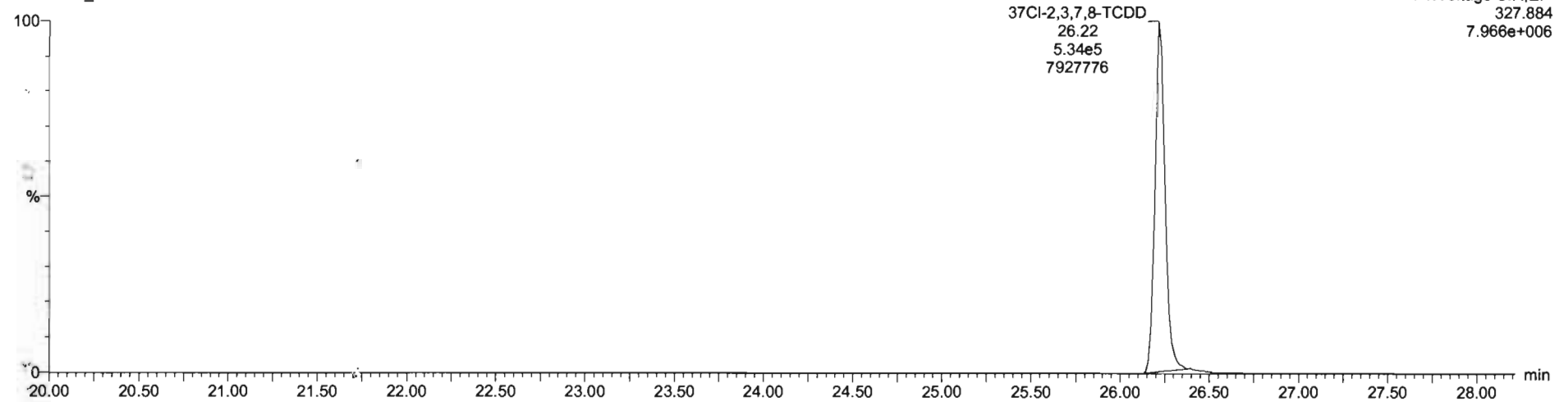
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Printed: Friday, November 06, 2020 08:14:32 Pacific Standard Time

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank

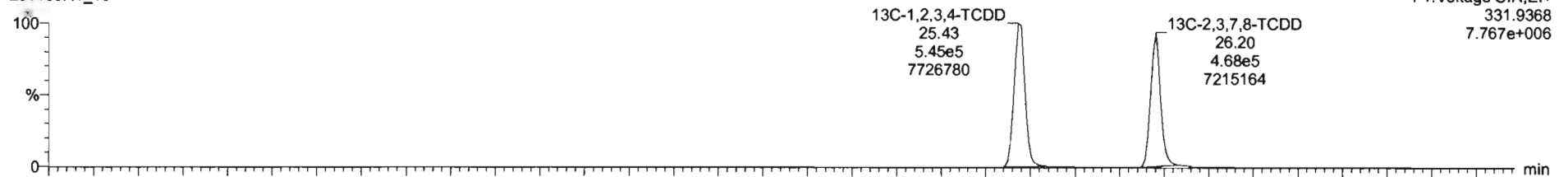
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201105R1\_10

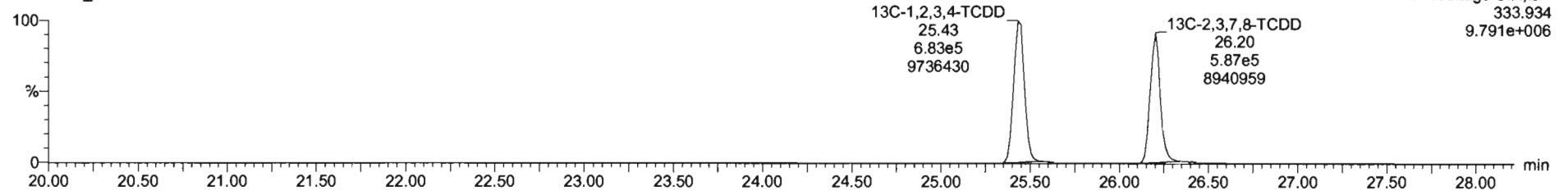


**13C-1,2,3,4-TCDD**

201105R1\_10



201105R1\_10



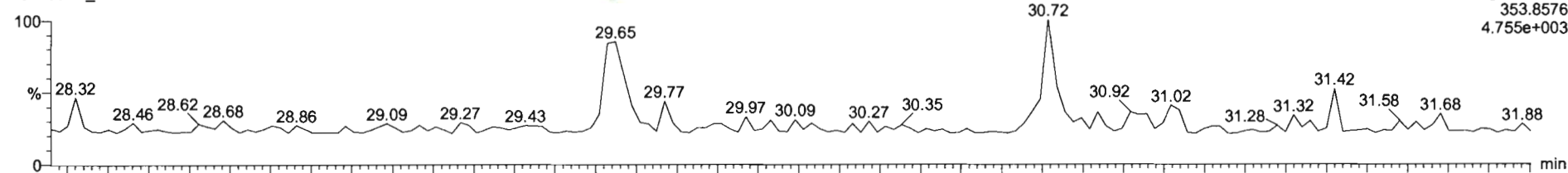
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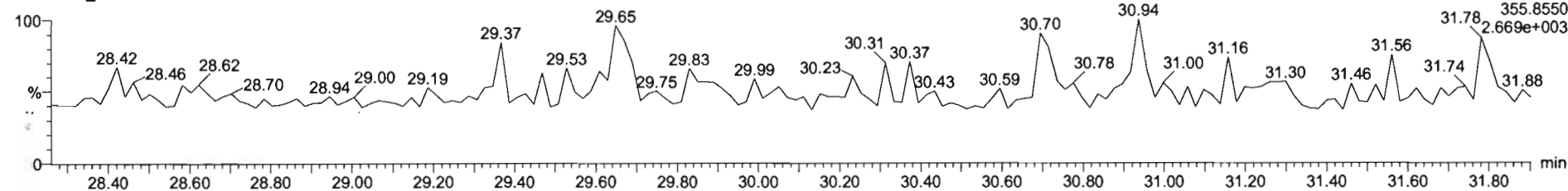
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**1,2,3,7,8-PeCDD**

201105R1\_10

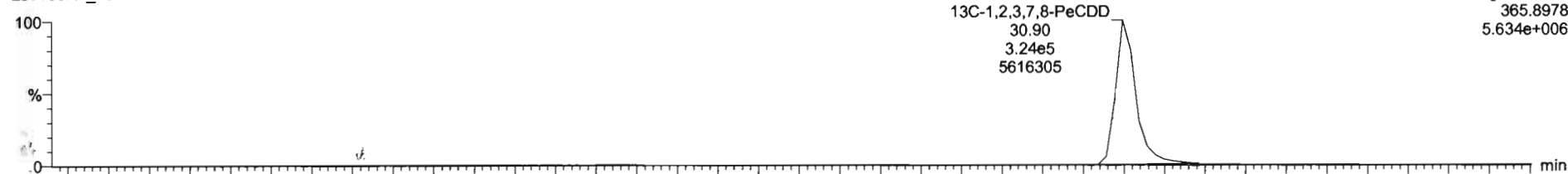


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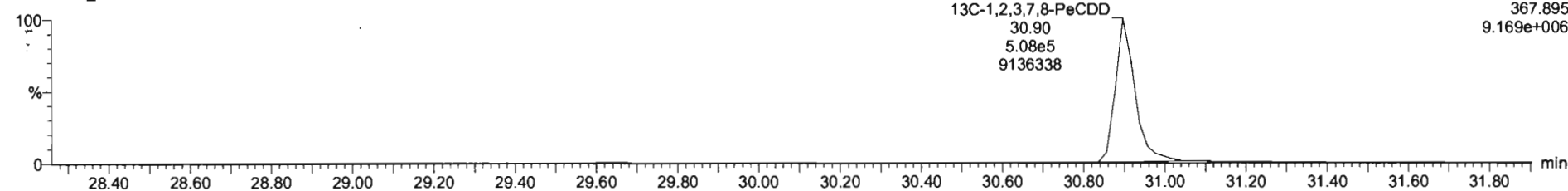


**13C-1,2,3,7,8-PeCDD**

201105R1\_10



201105R1\_10



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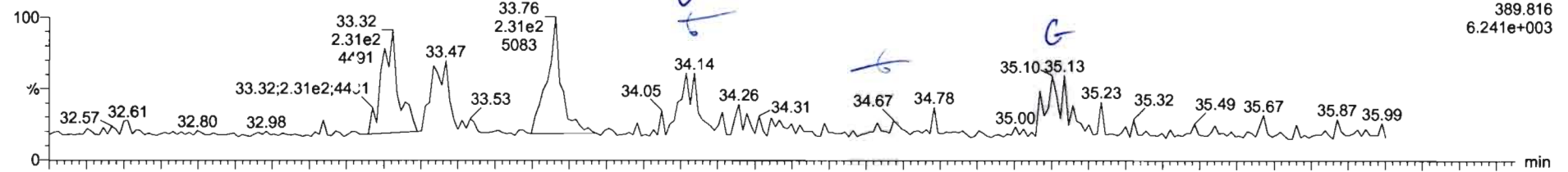
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HN 11/06/2020

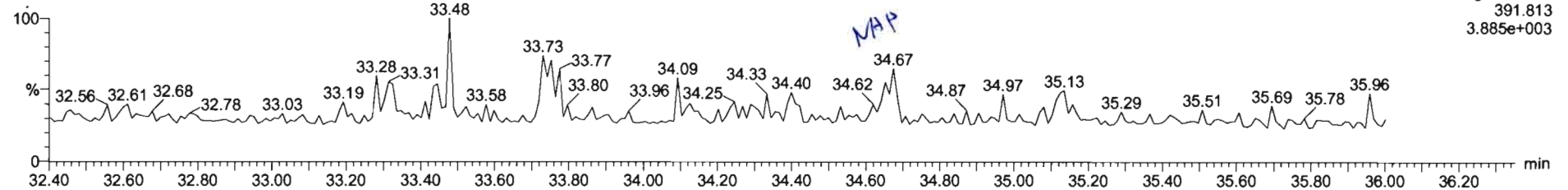
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1,2,3,4,7,8-HxCDD

201105R1\_10

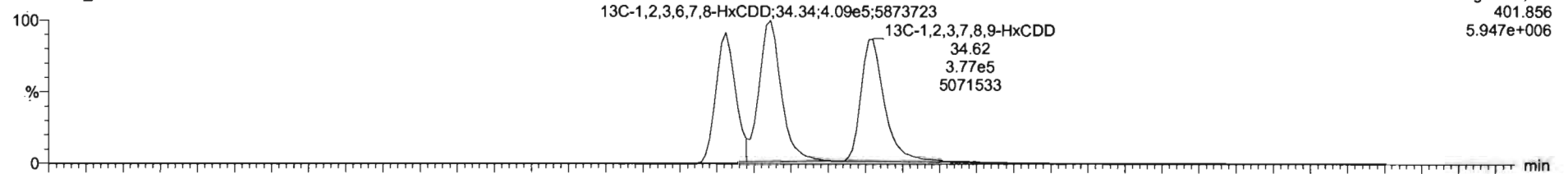


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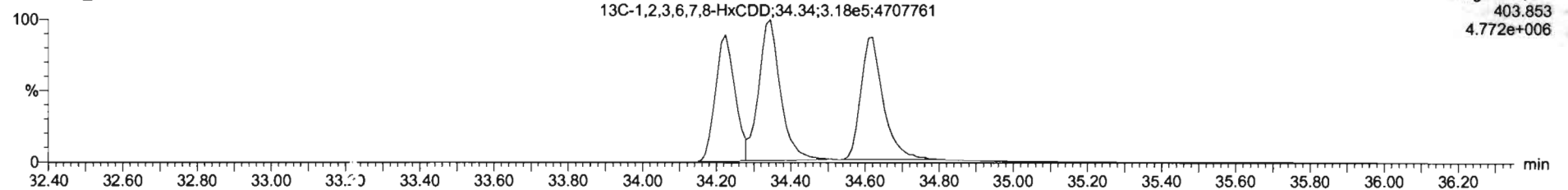


13C-1,2,3,4,7,8-HxCDD

201105R1\_10



201105R1\_10



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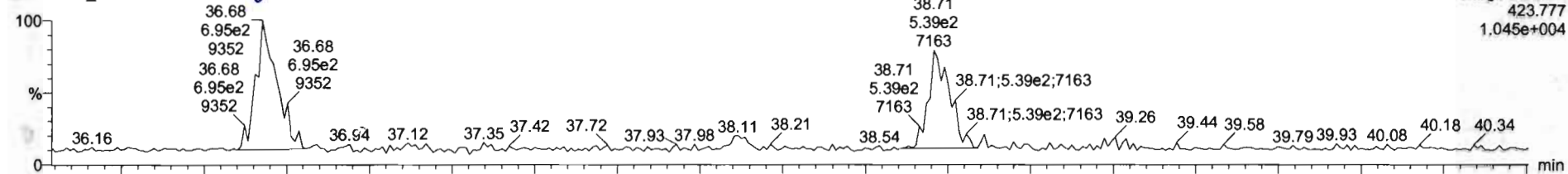
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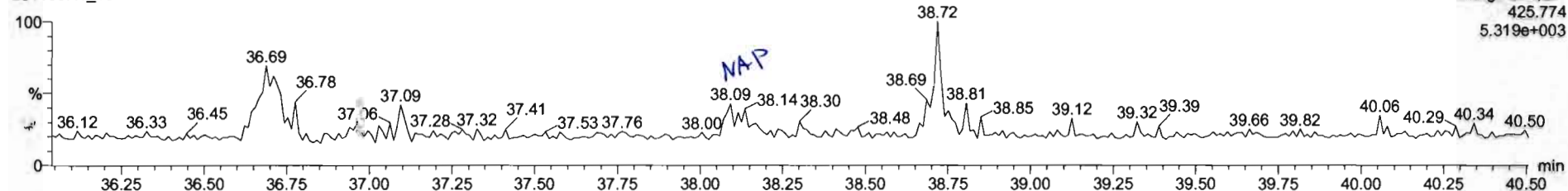
1,2,3,4,6,7,8-HpCDD

201105R1\_10



F4:Voltage SIR,EI+  
423.777  
1.045e+004

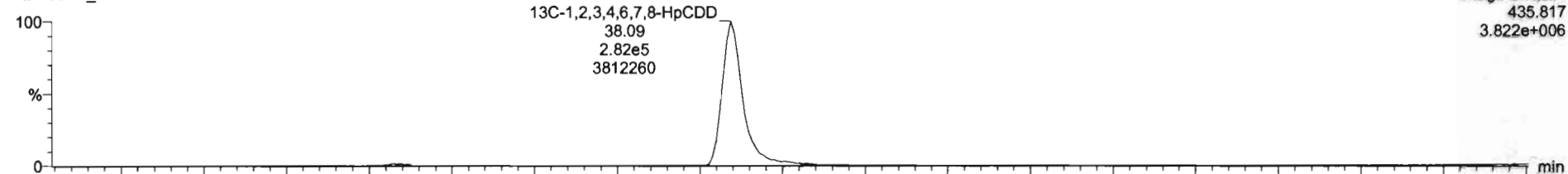
201105R1\_10



F4:Voltage SIR,EI+  
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5.319e+003

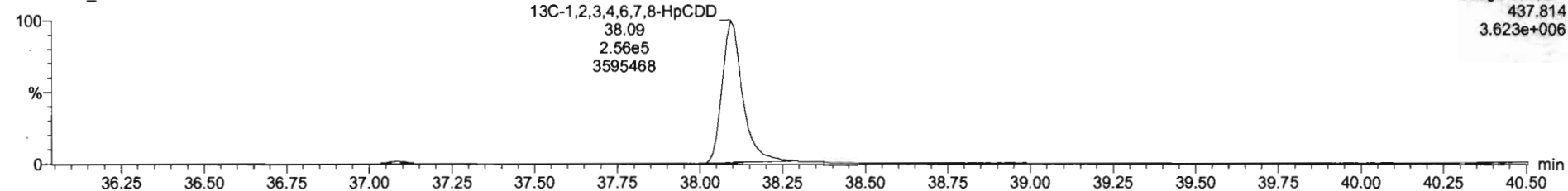
13C-1,2,3,4,6,7,8-HpCDD

201105R1\_10



F4:Voltage SIR,EI+  
435.817  
3.822e+006

201105R1\_10

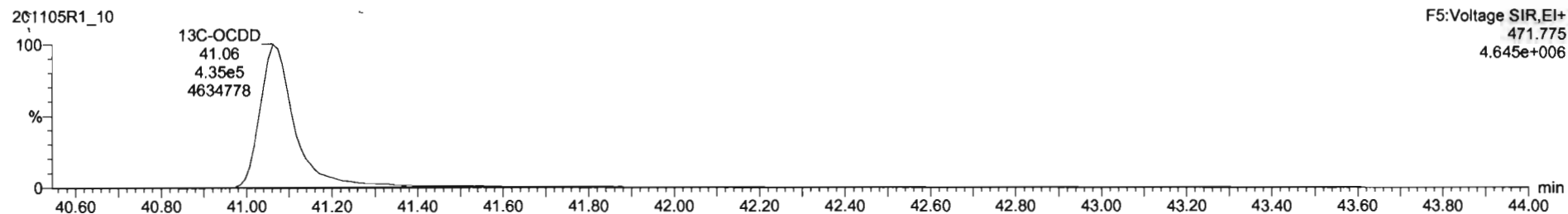
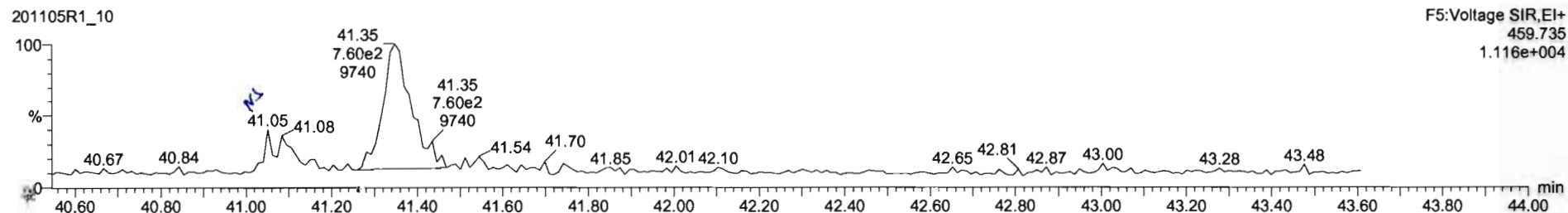
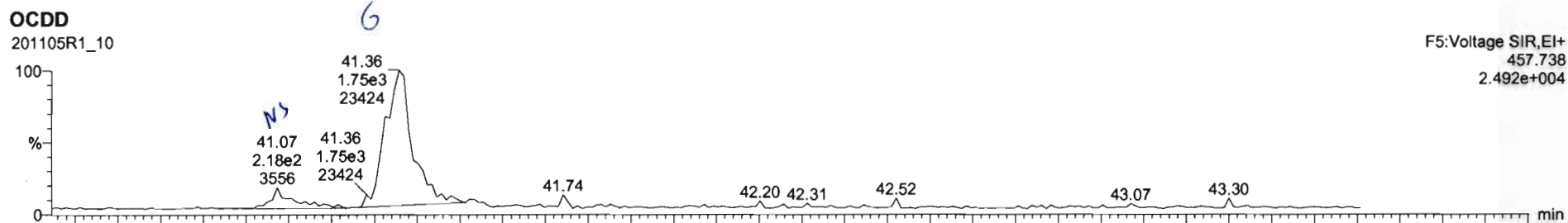


F4:Voltage SIR,EI+  
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3.623e+006

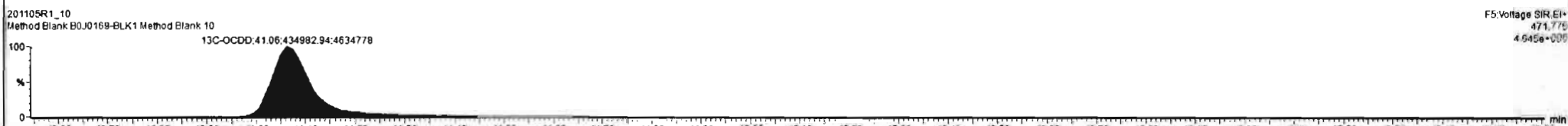
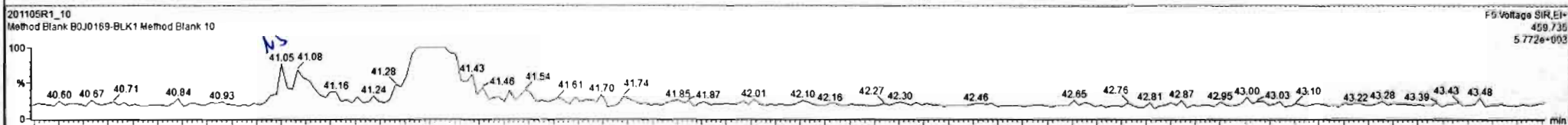
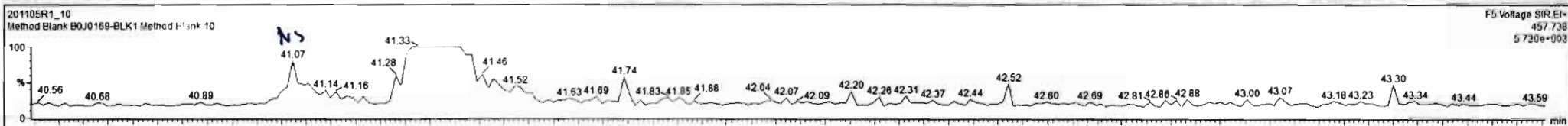
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Last Altered: Friday, November 06, 2020 08:14:00 Pacific Standard Time  
Printed: Friday, November 06, 2020 08:14:32 Pacific Standard Time

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
7	OCDD		8.20e5	0.89		NO	0.8717	41.07		NO	1.000				NO
8	2,3,7,8-TCDF		1.42e6	0.77		NO	0.8243	25.53		NO	1.000				NO
9	1,2,3,7,8-PeCDF		1.24e6	1.55		NO	0.9828	29.66		NO	1.000				NO
10	2,3,4,7,8-PeCDF		1.20e6	1.55		NO	1.0684	30.72		NO	1.000				NO
11	1,2,3,4,7,8-HxCDF		7.56e5	1.24		NO	0.9535	33.31		NO	1.000				NO
12	1,2,3,6,7,8-HxCDF		8.18e5												
13	2,3,4,6,7,8-HxCDF		7.36e5	1.24		NO	0.9907	34.12		NO	1.000				NO
14	1,2,3,7,8,9-HxCDF		6.31e5	1.24		NO	0.9506	35.11		NO	1.000				NO
15	1,2,3,4,6,7,8-HpCDF		5.37e5	1.04		NO	0.9986	36.69		NO	1.000				NO
16	1,2,3,4,7,8,9-HpCDF		4.01e5	1.04		NO	1.1238	38.72		NO	1.000				NO
17	OCDF		8.59e5	0.89		NO	0.8682	41.37		NO	1.000				NO
18	13C-2,3,7,8-TCDD	1.05e6	1.23e6	0.77	0.80	NO	1.1039	26.18	26.20	HO	1.029	1.030	155	77.5	YES
19	13C-1,2,3,7,8-PeCDD	8.32e5	1.23e6	0.63	0.64	NO	0.8585	30.80	30.90	HO	1.211	1.215	158	78.9	NO
20	13C-1,2,3,4,7,8-HxCDD	5.82e5	1.04e6	1.24	1.28	NO	0.6997	34.20	34.22	NO	1.013	1.014	160	80.0	YES
21	13C-1,2,3,6,7,8-HxCDD	7.27e5	1.04e6	1.24	1.29	NO	0.8327	34.33	34.35	NO	1.617	1.618	168	84.1	YES





Dataset: Untitled

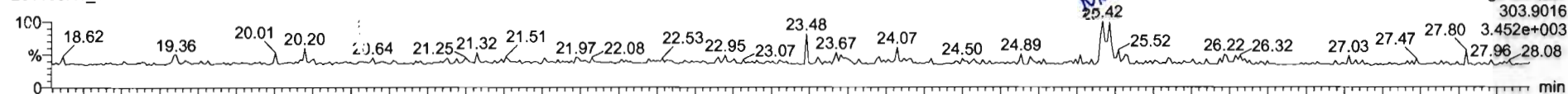
Last Altered: Friday, November 06, 2020 08:14:00 Pacific Standard Time

Printed: Friday, November 06, 2020 08:14:32 Pacific Standard Time

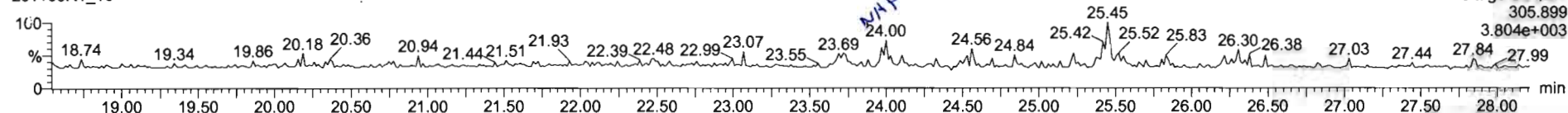
Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDF

201105R1\_10

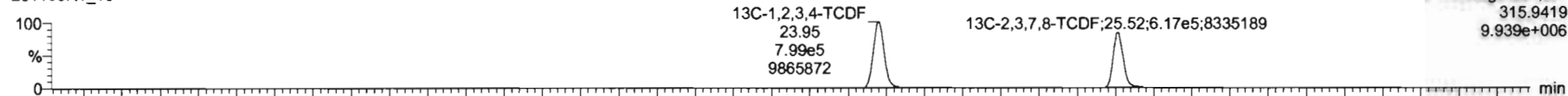


201105R1\_10

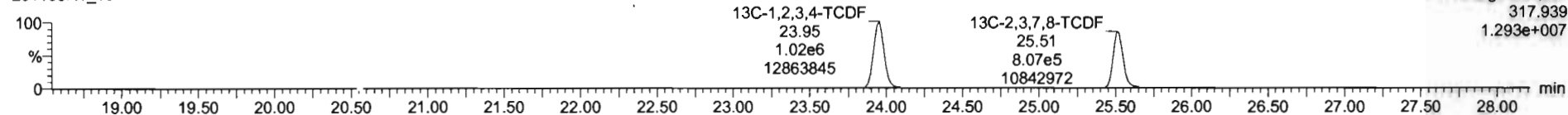


13C-2,3,7,8-TCDF

201105R1\_10

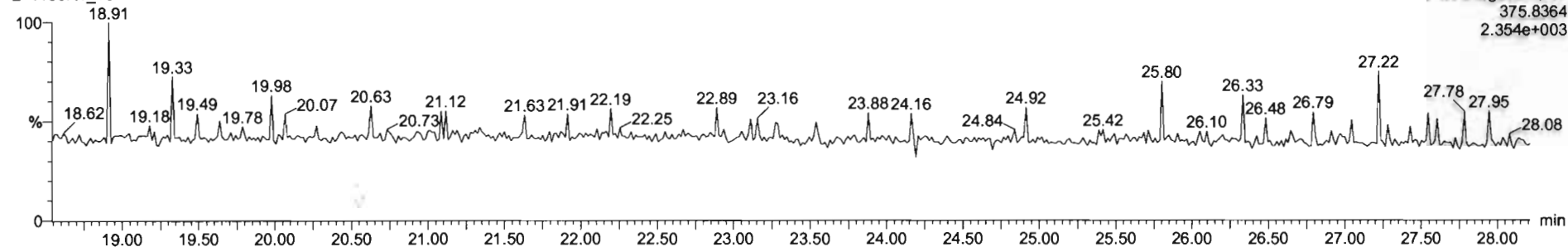


201105R1\_10

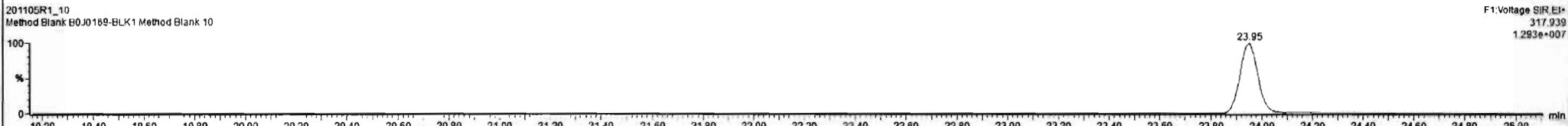
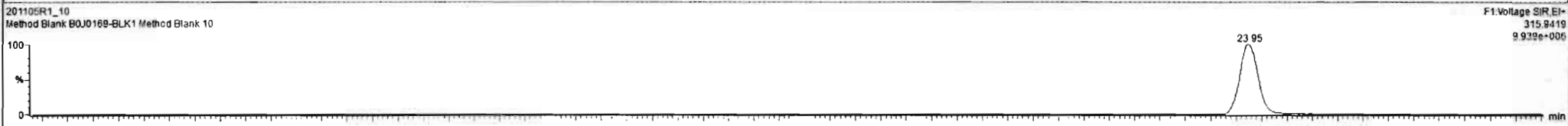
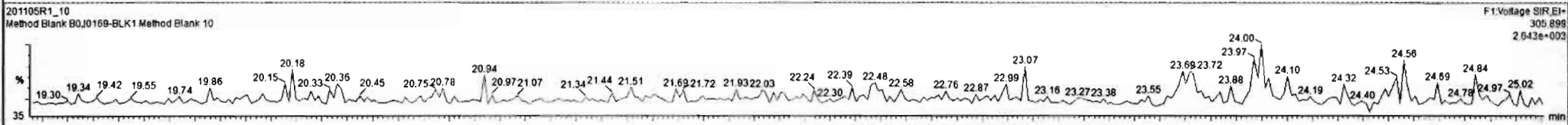
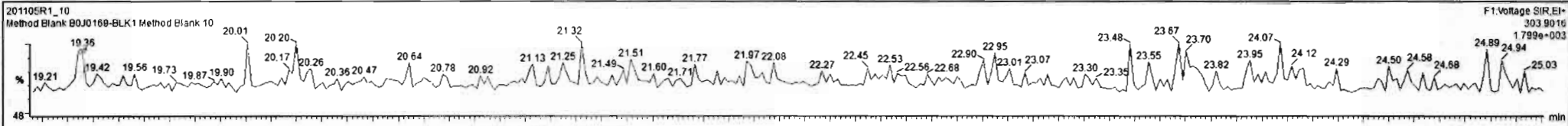


DPE1

201105R1\_10



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
43	Total Tetra-Furans		1.42e8				0.8243	23.61		NO	0.000				NO
44	1st Func. Penta-Furans		0.00e0				0.9626	27.23		NO	0.000				NO
45	Total Penta-Furans		0.00e0				0.9826	29.27		NO	0.000				NO
46	Total Hexa-Furans		0.00e0				0.9907	33.56		NO	0.000				NO
47	Total Hepta-Furans		0.00e0				0.9956	37.83		NO	0.000				NO
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														
53	DPE1														
54	DPE2														
55	DPE3														
56	DPE4														
57	DPE5														



Dataset: Untitled

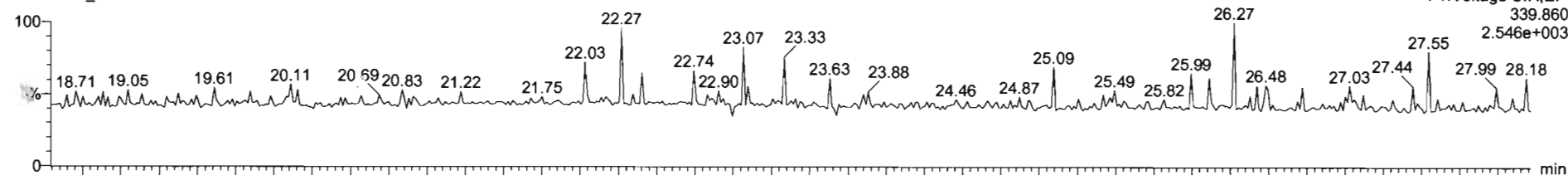
Last Altered: Friday, November 06, 2020 08:14:00 Pacific Standard Time

Printed: Friday, November 06, 2020 08:14:32 Pacific Standard Time

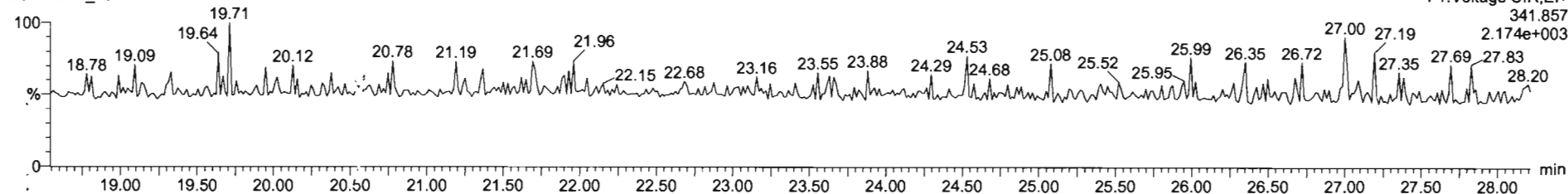
Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

201105R1\_10

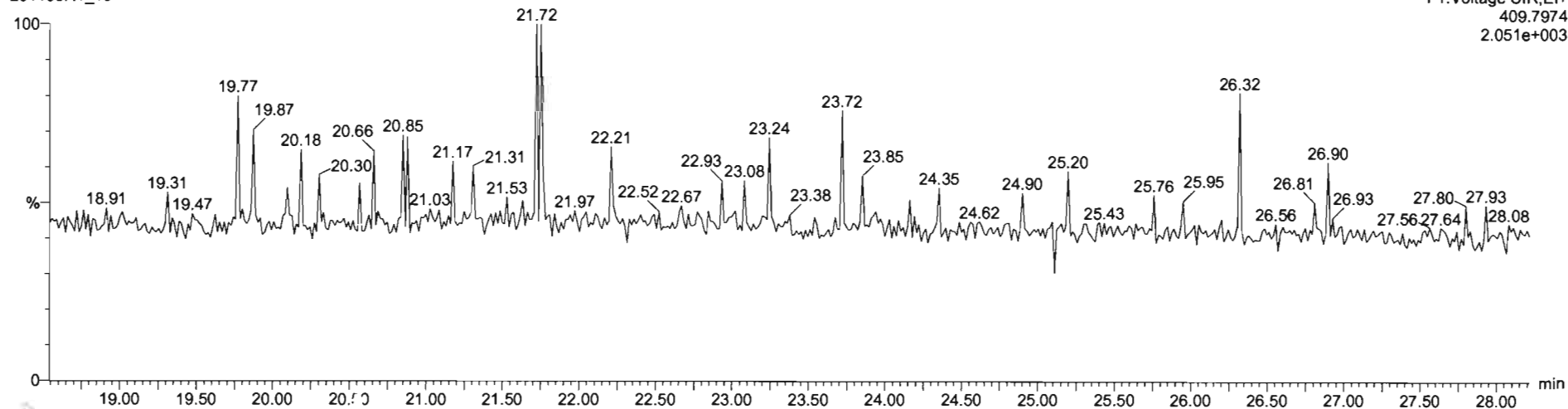


201105R1\_10



DPE6

201105R1\_10

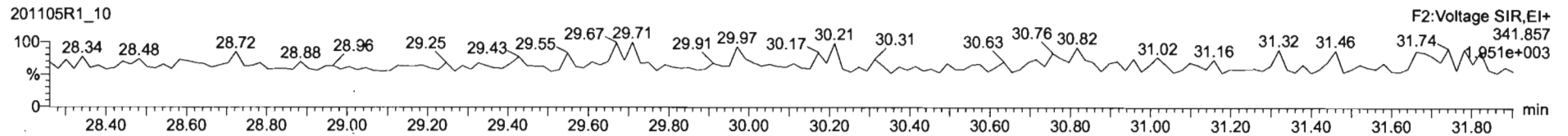
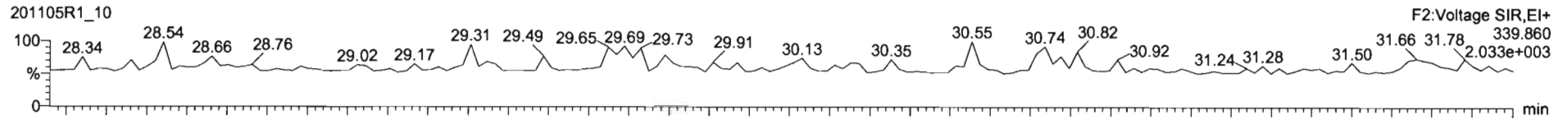


Dataset: Untitled

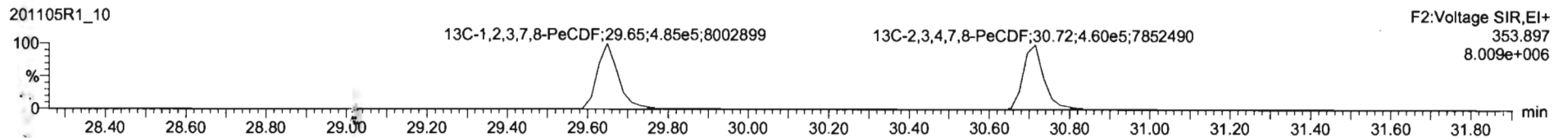
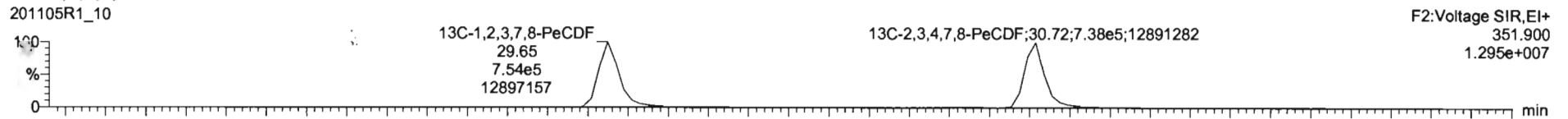
Last Altered: Friday, November 06, 2020 08:14:00 Pacific Standard Time  
Printed: Friday, November 06, 2020 08:14:32 Pacific Standard Time

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank

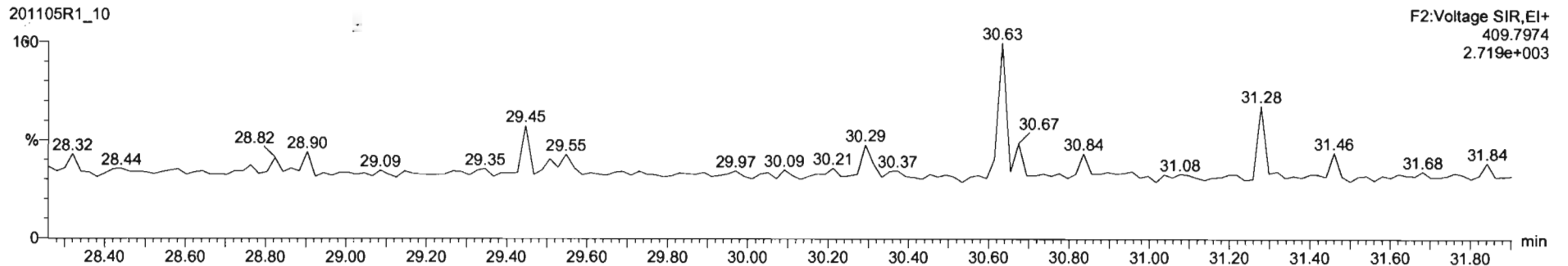
**1,2,3,7,8-PeCDF**



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



**DPE2**



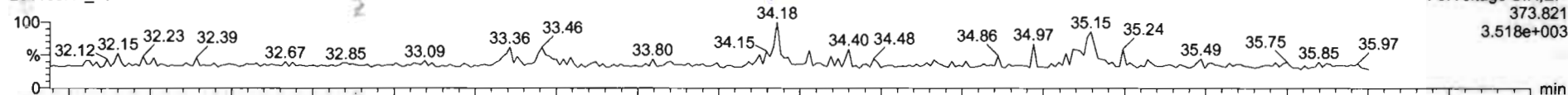
Dataset: Untitled

Last Altered: Friday, November 06, 2020 08:14:00 Pacific Standard Time  
Printed: Friday, November 06, 2020 08:14:32 Pacific Standard Time

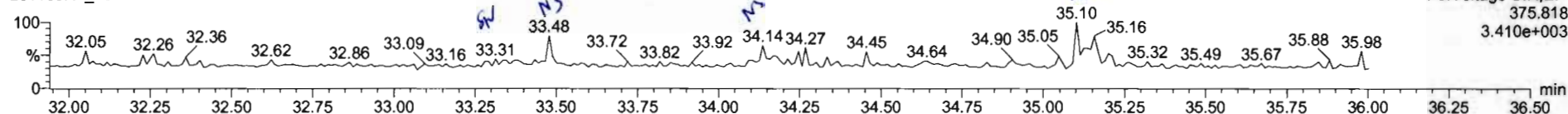
Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank

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

201105R1\_10

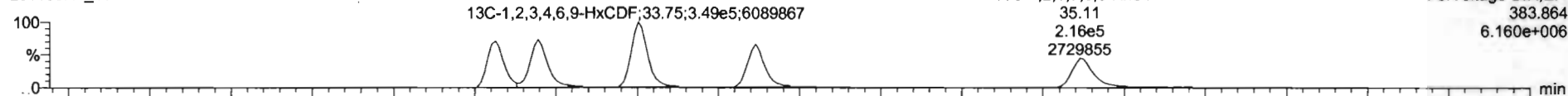


201105R1\_10

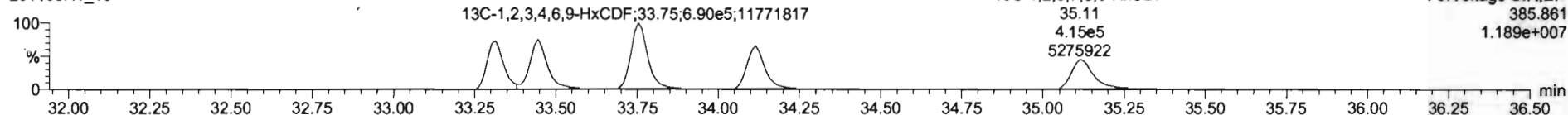


13C-1,2,3,4,7,8-HxCDF

201105R1\_10

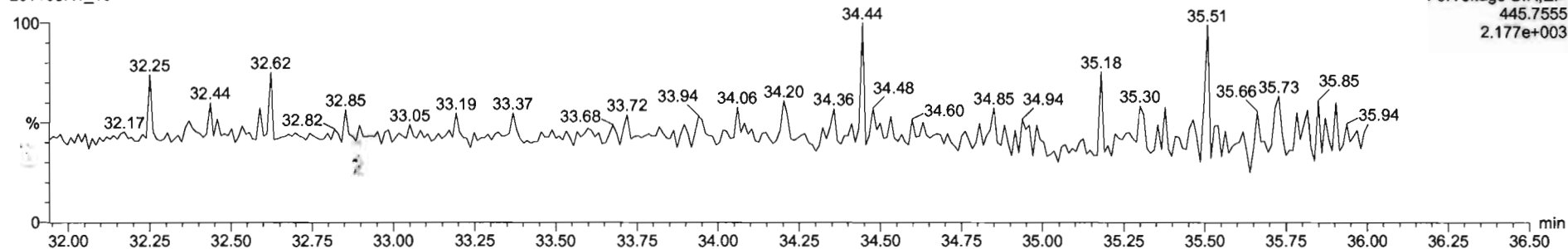


201105R1\_10

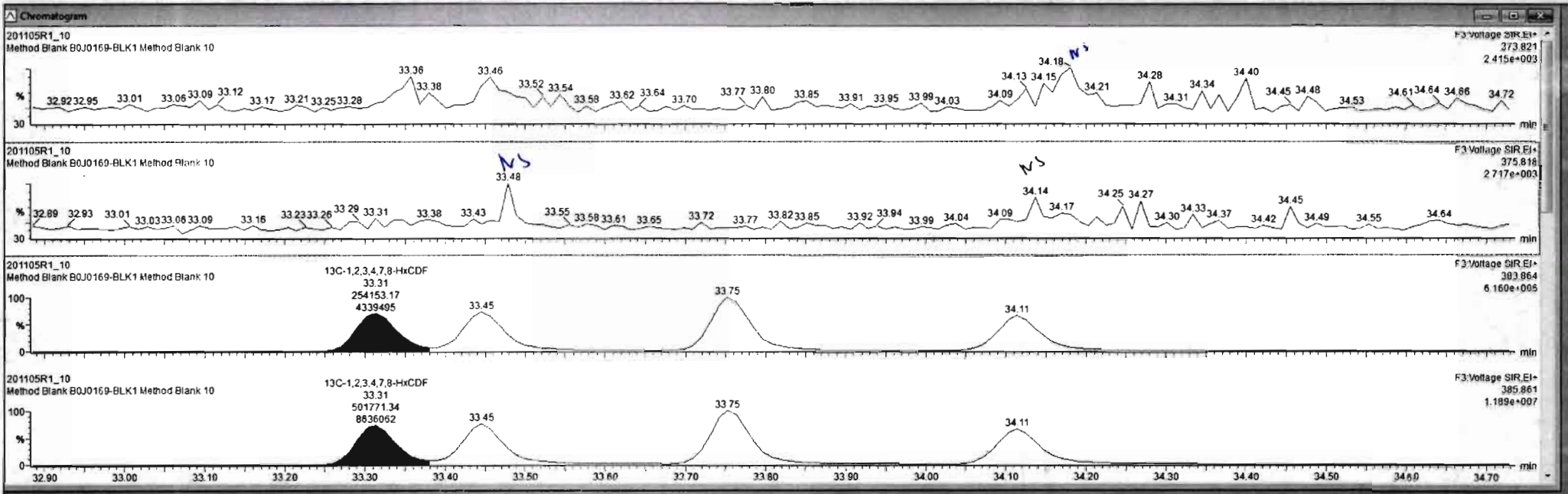


D1E3

201105R1\_10



#	Name	Resp	IS Resp	Pred RA	RA	nLy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
43	Total Tetra-Furans		1.42e6				0.8243	23.61		NO	0.000				NO
44	1st Func. Penta-Furans		0.00e0				0.9626	27.23		NO	0.000				NO
45	Total Penta-Furans		0.00e0				0.9626	29.27		NO	0.000				NO
46	Total Hexa-Furans		0.00e0				0.9907	33.56		NO	0.000				NO
47	Total Hepta-Furans		0.00e0				0.9986	37.63		NO	0.000				NO
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														
52	PFK5														
53	DPE1														
54	DPE2														
55	DPE3														
56	DPE4														
57	DPE5														

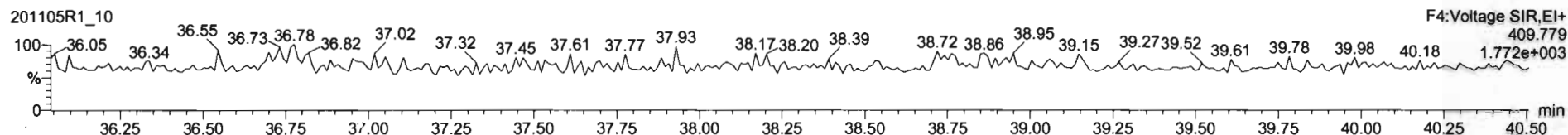
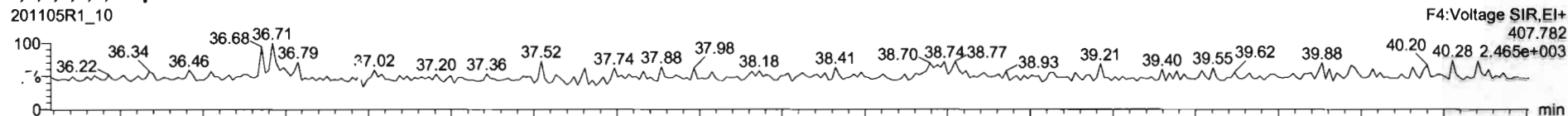


Dataset: Untitled

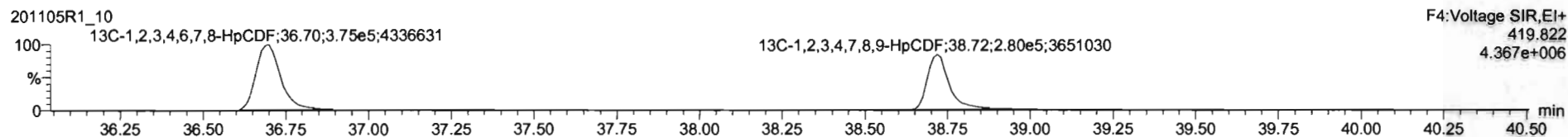
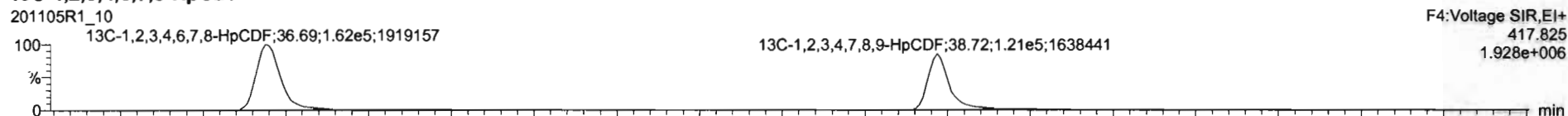
Last Altered: Friday, November 06, 2020 08:14:00 Pacific Standard Time  
Printed: Friday, November 06, 2020 08:14:32 Pacific Standard Time

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank

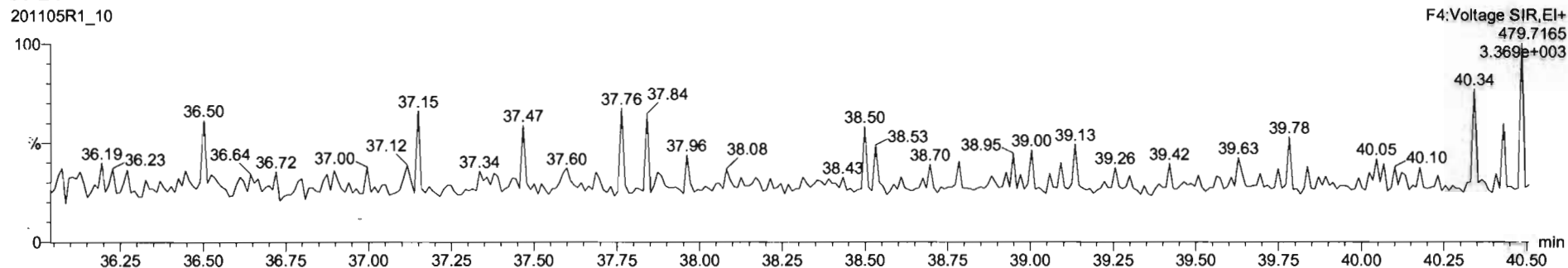
1,2,3,4,6,7,8-HpCDF



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



DPE4

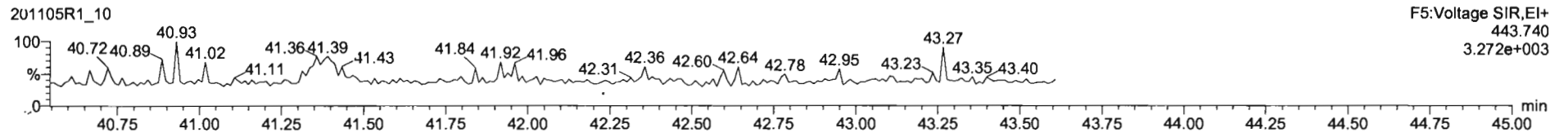
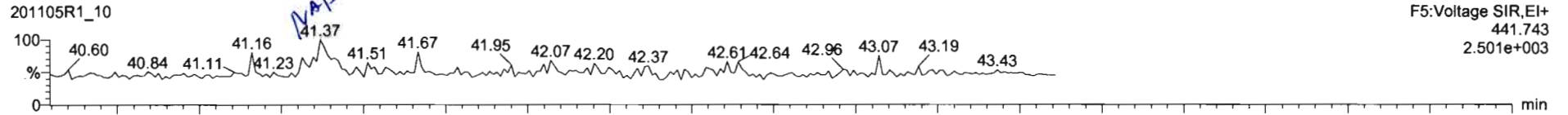


Dataset: Untitled

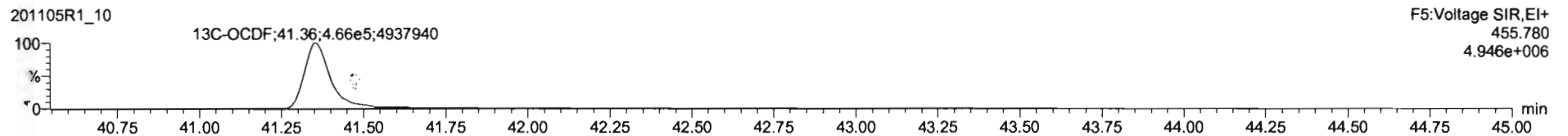
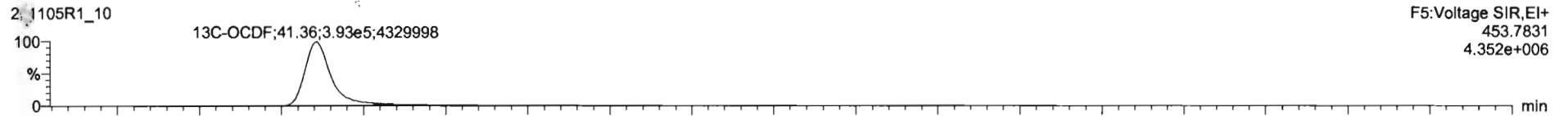
Last Altered: Friday, November 06, 2020 08:14:00 Pacific Standard Time  
Printed: Friday, November 06, 2020 08:14:32 Pacific Standard Time

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank

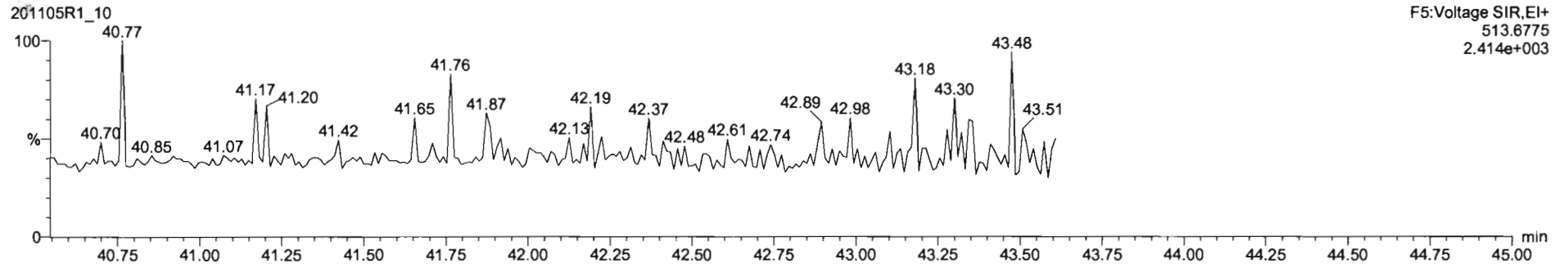
OCDF



13C-OCDF

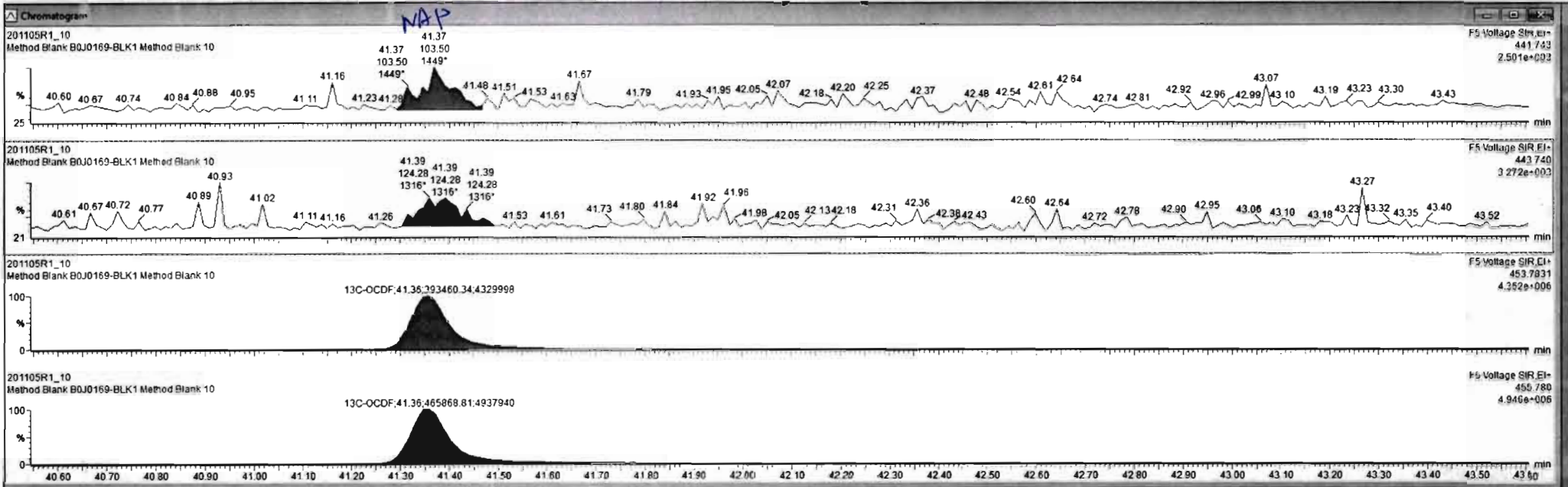


DPE5





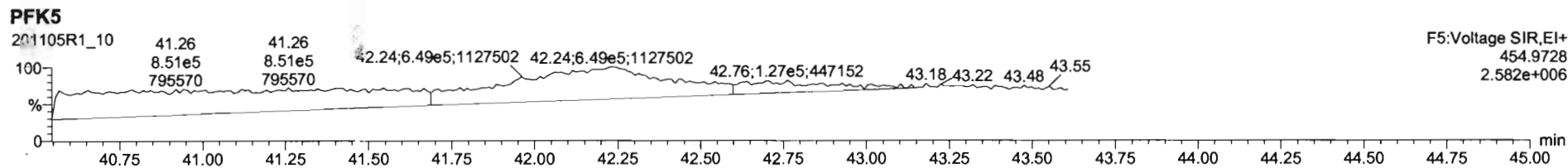
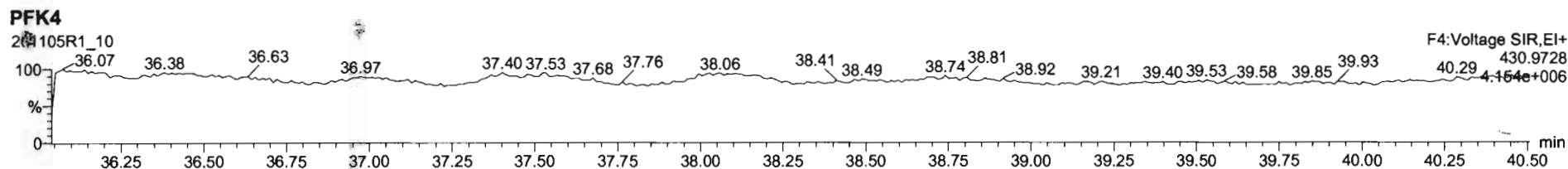
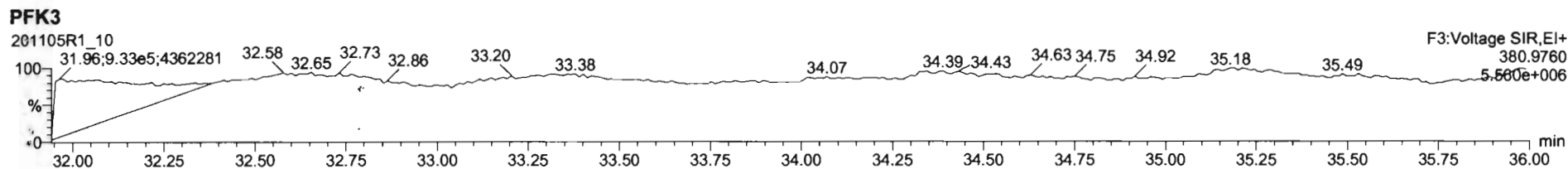
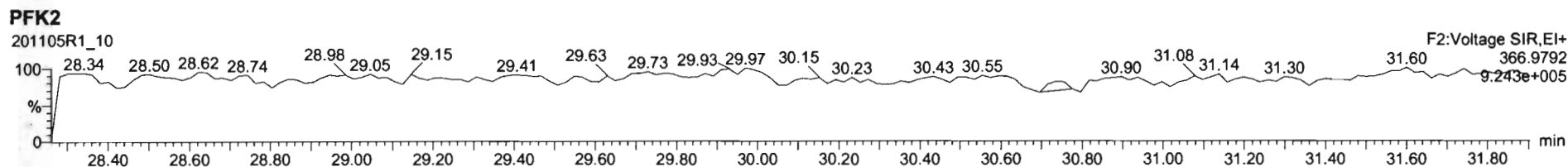
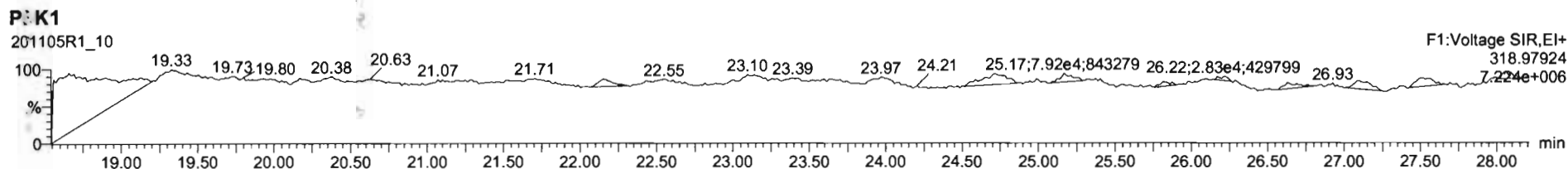
#	Name	Resp	IS Resp	Pred RA	RA	n/y	RBF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
17	OCDF		8.59e5	0.89		NO	0.8682	41.37		NO	1.000				NO
18	13C-2,3,7,8-TCDD	1.05e6	1.23e6	0.77	0.80	NO	1.1089	26.18	26.20	NO	1.029	1.030	155	77.5	YES
19	13C-1,2,3,7,8-PeCDD	8.32e5	1.23e6	0.63	0.64	NO	0.8585	30.80	30.90	NO	1.211	1.215	158	78.9	NO
20	13C-1,2,3,4,7,8-HxCDD	5.82e5	1.04e6	1.24	1.26	NO	0.6997	34.20	34.22	NO	1.013	1.014	160	80.0	YES
21	13C-1,2,3,6,7,8-HxCDD	7.27e5	1.04e6	1.24	1.29	NO	0.8327	34.33	34.35	NO	1.017	1.018	168	84.1	YES
22	13C-1,2,3,7,8-HxCDD	8.64e5	1.04e6	1.24	1.31	NO	0.7818	34.80	34.82	NO	1.025	1.026	168	84.0	YES
23	13C-1,2,3,4,6,7,8-HpCDD	5.38e5	1.04e6	1.04	1.10	NO	0.6496	38.04	38.09	NO	1.127	1.129	160	79.8	NO
24	13C-OCDD	8.20e5	1.04e6	0.89	0.89	NO	0.5394	40.97	41.07	NO	1.214	1.217	293	73.2	NO
25	13C-2,3,7,8-TCDF	1.42e6	1.82e6	0.77	0.76	NO	0.9814	25.51	25.52	NO	1.003	1.003	159	79.7	NO
26	13C-1,2,3,7,8-PeCDF	1.24e6	1.82e6	1.55	1.55	NO	0.7917	29.56	29.65	NO	1.162	1.168	172	85.9	NO
27	13C-2,3,4,7,8-PeCDF	1.20e6	1.82e6	1.55	1.60	NO	0.7777	30.61	30.72	NO	1.204	1.208	169	84.6	NO
28	13C-1,2,3,4,7,8-HxCDF	7.58e5	1.04e6	0.51	0.51	NO	0.9537	33.30	33.31	NO	0.987	0.987	153	76.3	NO
29	13C-1,2,3,6,7,8-HxCDF	8.18e5	1.04e6	0.51	0.50	NO	1.0059	33.44	33.44	NO	0.991	0.991	157	78.3	NO
30	13C-2,3,4,6,7,8-HxCDF	7.36e5	1.04e6	0.51	0.50	NO	0.9210	34.10	34.11	NO	1.010	1.011	154	76.9	NO
31	13C-1,2,3,7,8,9-HxCDF	6.31e5	1.04e6	0.51	0.52	NO	0.8034	35.10	35.11	NO	1.040	1.040	151	75.6	NO



Dataset: Untitled

Last Altered: Friday, November 06, 2020 08:14:00 Pacific Standard Time  
Printed: Friday, November 06, 2020 08:14:32 Pacific Standard Time

Name: 201105R1\_10, Date: 05-Nov-2020, Time: 18:29:35, ID: B0J0169-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_7.qld

Last Altered: Friday, November 06, 2020 10:34:27 Pacific Standard Time

Printed: Friday, November 06, 2020 10:37:39 Pacific Standard Time

*DF1105/20*

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

*CT 11/09/2020*

Name: 201105R1\_7, Date: 05-Nov-2020, Time: 16:14:16, ID: B0J0169-BS1 OPR 10, Description: OPR, Task: ST201105R1\_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.51e4	0.76	NO	0.950	10.000	26.22	1.001	19.709		0.0460	19.7
2	1,2,3,7,8-PeCDD	3.47e5	0.61	NO	0.885	10.000	30.92	1.001	106.37		0.132	106
3	1,2,3,4,7,8-HxCDD	2.82e5	1.26	NO	1.02	10.000	34.22	1.000	104.21		0.277	104
4	1,2,3,6,7,8-HxCDD	2.98e5	1.25	NO	0.915	10.000	34.35	1.000	99.958		0.282	100
5	1,2,3,7,8,9-HxCDD	2.82e5	1.24	NO	0.934	10.000	34.62	1.000	100.20		0.303	100
6	1,2,3,4,6,7,8-HpCDD	2.29e5	1.03	NO	0.870	10.000	38.10	1.000	101.78		0.528	102
7	OCDD	3.18e5	0.89	NO	0.872	10.000	41.06	1.000	198.03		0.888	198
8	2,3,7,8-TCDF	9.30e4	0.72	NO	0.824	10.000	25.54	1.001	19.219		0.0487	19.2
9	1,2,3,7,8-PeCDF	5.10e5	1.57	NO	0.963	10.000	29.65	1.001	101.18		0.201	101
10	2,3,4,7,8-PeCDF	5.53e5	1.57	NO	1.07	10.000	30.72	1.001	101.18		0.182	101
11	1,2,3,4,7,8-HxCDF	3.26e5	1.23	NO	0.953	10.000	33.31	1.000	101.23		0.372	101
12	1,2,3,6,7,8-HxCDF	3.62e5	1.27	NO	1.01	10.000	33.46	1.001	99.316		0.359	99.3
13	2,3,4,6,7,8-HxCDF	3.26e5	1.23	NO	0.991	10.000	34.13	1.001	100.28		0.408	100
14	1,2,3,7,8,9-HxCDF	2.77e5	1.28	NO	0.951	10.000	35.12	1.000	100.66		0.621	101
15	1,2,3,4,6,7,8-HpCDF	2.43e5	1.00	NO	0.999	10.000	36.71	1.001	98.767		0.526	98.8
16	1,2,3,4,7,8,9-HpCDF	2.11e5	1.02	NO	1.12	10.000	38.73	1.000	99.192		0.524	99.2
17	OCDF	3.47e5	0.88	NO	0.868	10.000	41.36	1.000	196.57		0.482	197
18	13C-2,3,7,8-TCDD	9.09e5	0.77	NO	1.11	10.000	26.19	1.030	128.02	64.0	0.124	
19	13C-1,2,3,7,8-PeCDD	7.37e5	0.64	NO	0.859	10.000	30.90	1.215	134.19	67.1	0.156	
20	13C-1,2,3,4,7,8-HxCDD	5.31e5	1.28	NO	0.700	10.000	34.21	1.014	141.16	70.6	0.578	
21	13C-1,2,3,6,7,8-HxCDD	6.51e5	1.28	NO	0.833	10.000	34.33	1.018	145.46	72.7	0.486	
22	13C-1,2,3,7,8,9-HxCDD	6.02e5	1.26	NO	0.762	10.000	34.61	1.026	146.94	73.5	0.531	
23	13C-1,2,3,4,6,7,8-HpCDD	5.17e5	1.07	NO	0.650	10.000	38.09	1.129	147.97	74.0	0.740	
24	13C-OCDD	7.38e5	0.89	NO	0.539	10.000	41.05	1.217	254.40	63.6	0.671	
25	13C-2,3,7,8-TCDF	1.17e6	0.77	NO	0.981	10.000	25.51	1.003	126.21	63.1	0.201	
26	13C-1,2,3,7,8-PeCDF	1.05e6	1.59	NO	0.792	10.000	29.63	1.165	139.61	69.8	0.292	
27	13C-2,3,4,7,8-PeCDF	1.02e6	1.60	NO	0.778	10.000	30.69	1.207	138.80	69.4	0.298	
28	13C-1,2,3,4,7,8-HxCDF	6.75e5	0.50	NO	0.954	10.000	33.30	0.987	131.63	65.8	0.532	
29	13C-1,2,3,6,7,8-HxCDF	7.23e5	0.50	NO	1.01	10.000	33.43	0.991	133.67	66.8	0.504	
30	13C-2,3,4,6,7,8-HxCDF	6.56e5	0.51	NO	0.921	10.000	34.10	1.011	132.41	66.2	0.551	
31	13C-1,2,3,7,8,9-HxCDF	5.78e5	0.52	NO	0.803	10.000	35.11	1.041	133.80	66.9	0.631	

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Printed: Friday, November 06, 2020 10:37:39 Pacific Standard Time

Name: 201105R1\_7, Date: 05-Nov-2020, Time: 16:14:16, ID: B0J0169-BS1 OPR 10, Description: OPR, Task: ST201105R1\_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	4.93e5	0.43	NO	0.735	10.000	36.69	1.087	124.53	62.3	0.620	
33	13C-1,2,3,4,7,8,9-HpCDF	3.79e5	0.42	NO	0.568	10.000	38.72	1.148	124.25	62.1	0.804	
34	13C-OCDF	8.13e5	0.91	NO	0.629	10.000	41.35	1.225	240.38	60.1	0.478	
35	37Cl-2,3,7,8-TCDD	5.41e5			1.09	10.000	26.22	1.031	77.682	97.1	0.0464	
36	13C-1,2,3,4-TCDD	1.28e6	0.80	NO	1.00	10.000	25.43	1.000	200.00	100	0.137	
37	13C-1,2,3,4-TCDF	1.90e6	0.78	NO	1.00	10.000	23.95	1.000	200.00	100	0.198	
38	13C-1,2,3,4,6,9-HxCDF	1.08e6	0.51	NO	1.00	10.000	33.74	1.000	200.00	100	0.507	

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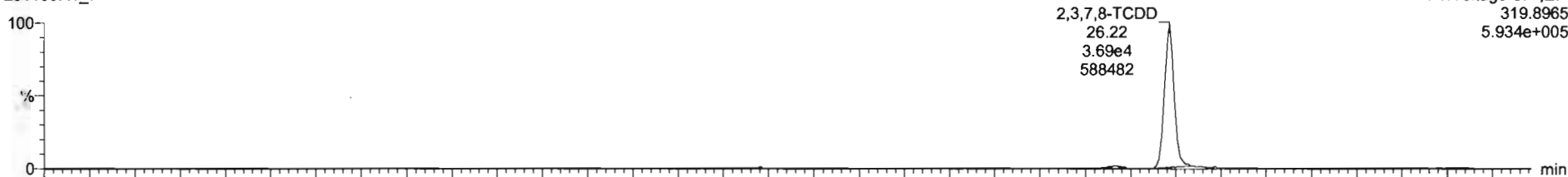
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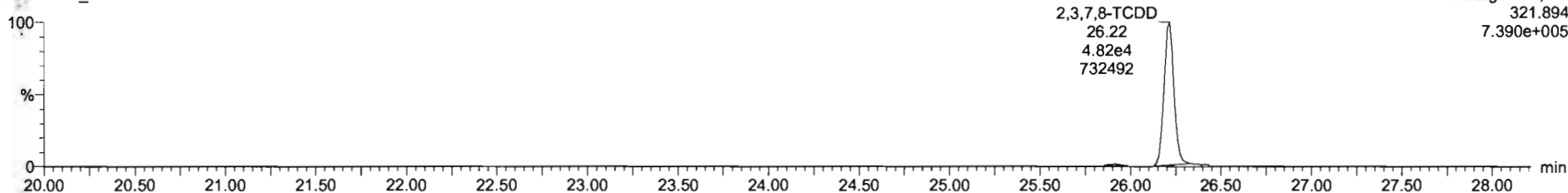
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**2,3,7,8-TCDD**

201105R1\_7

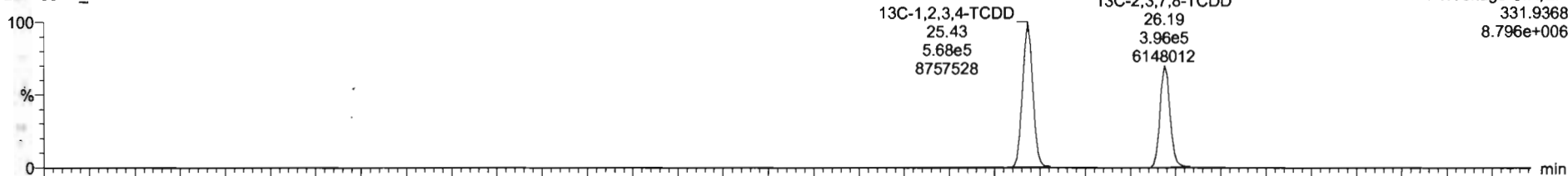


201105R1\_7

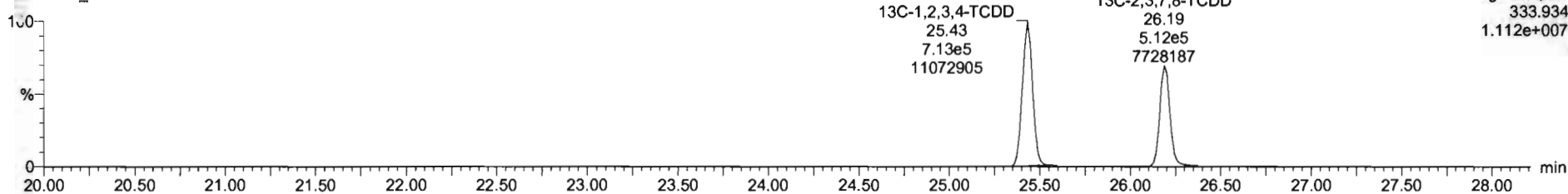


**13C-2,3,7,8-TCDD**

201105R1\_7



201105R1\_7



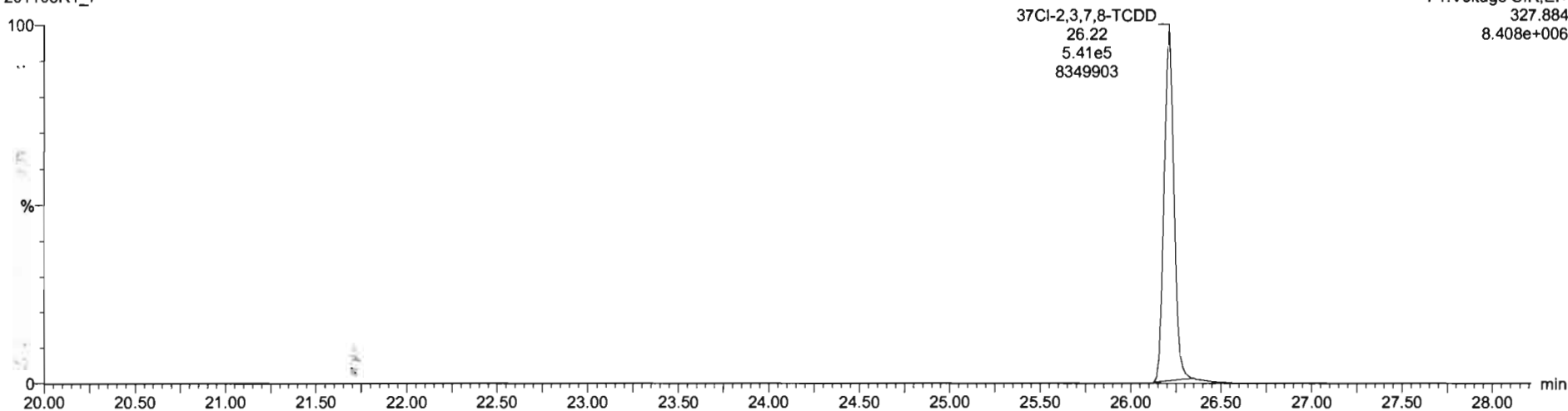
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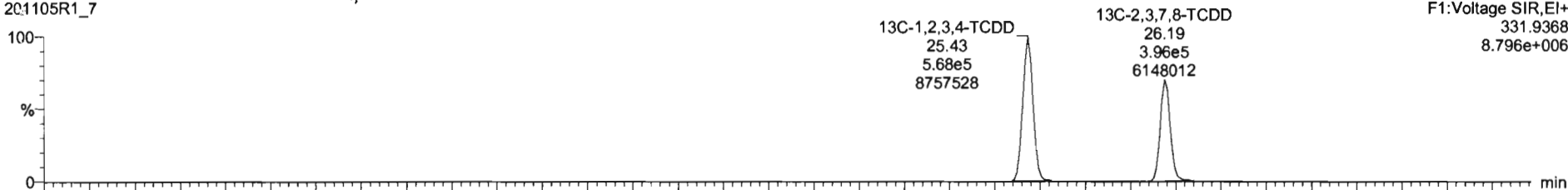
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201105R1\_7

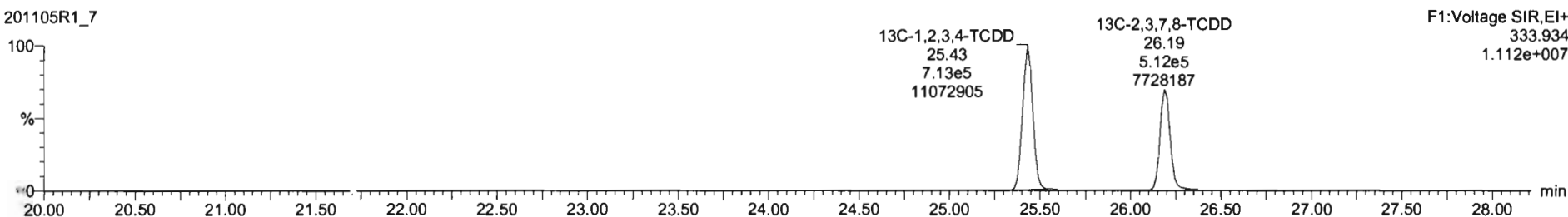


**13C-1,2,3,4-TCDD**

201105R1\_7



201105R1\_7



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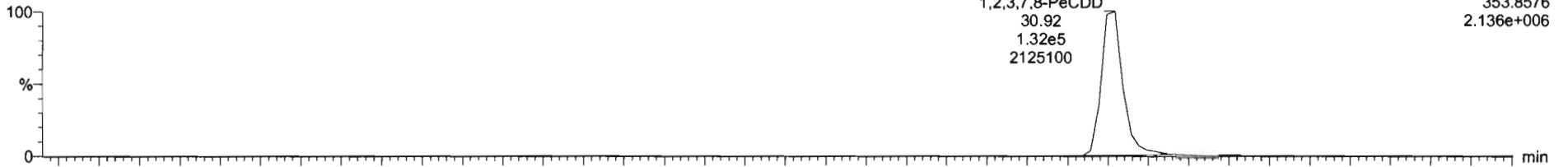
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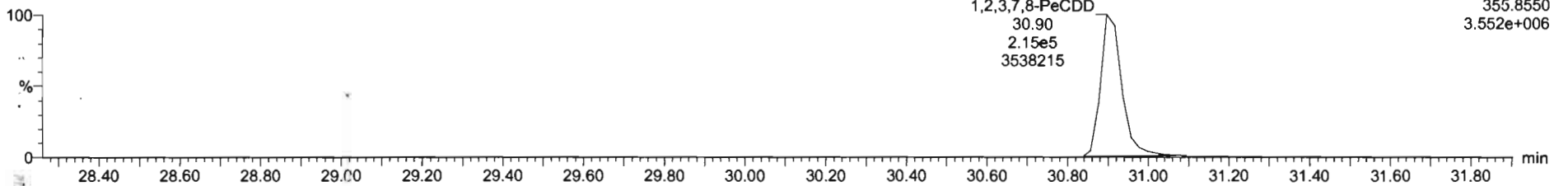
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**1,2,3,7,8-PeCDD**

201105R1\_7

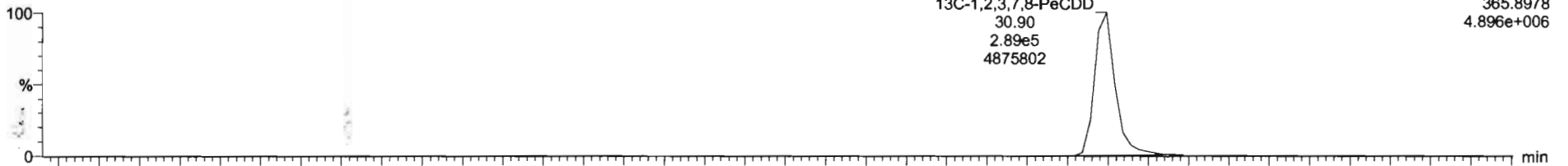


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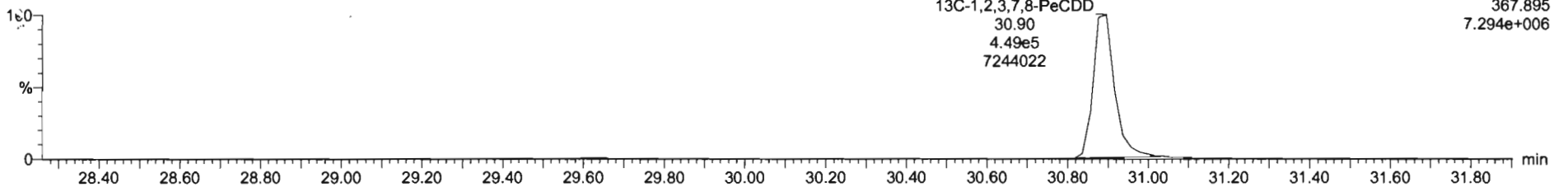


**<sup>13</sup>C-1,2,3,7,8-PeCDD**

201105R1\_7



201105R1\_7



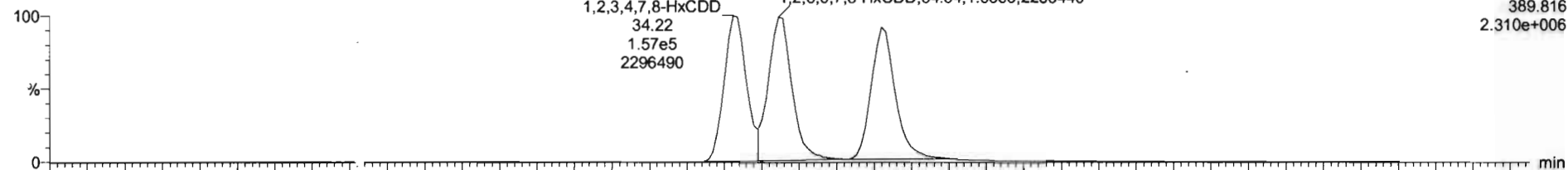
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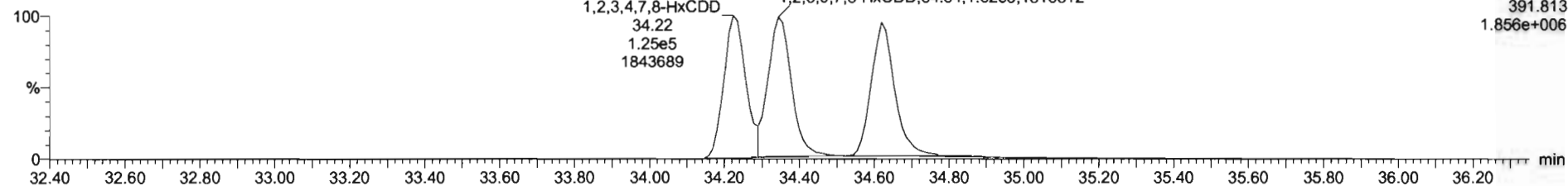
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**1,2,3,4,7,8-HxCDD**

201105R1\_7

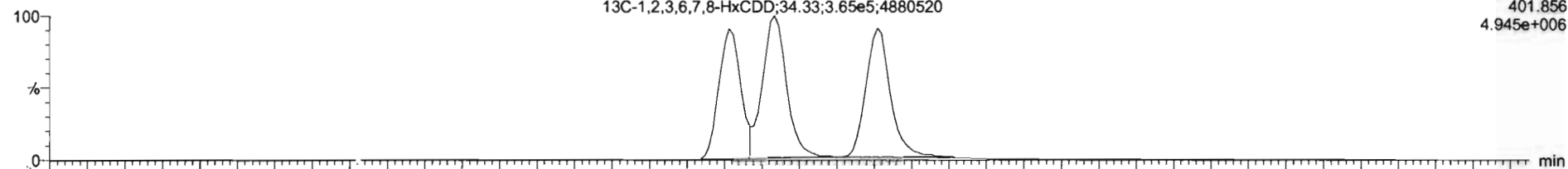


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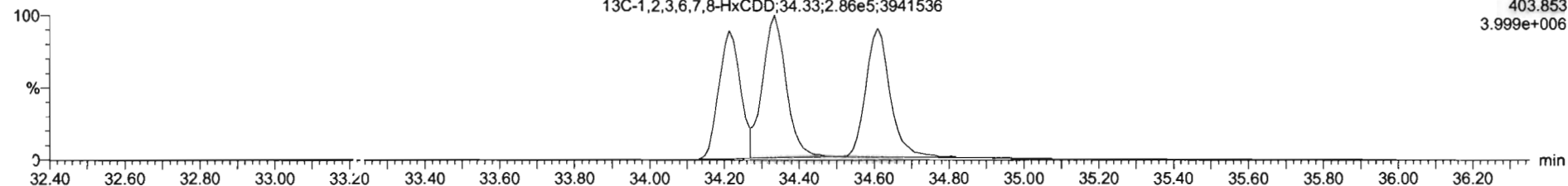


**13C-1,2,3,4,7,8-HxCDD**

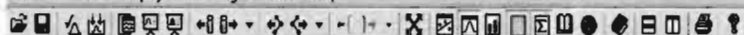
201105R1\_7



201105R1\_7

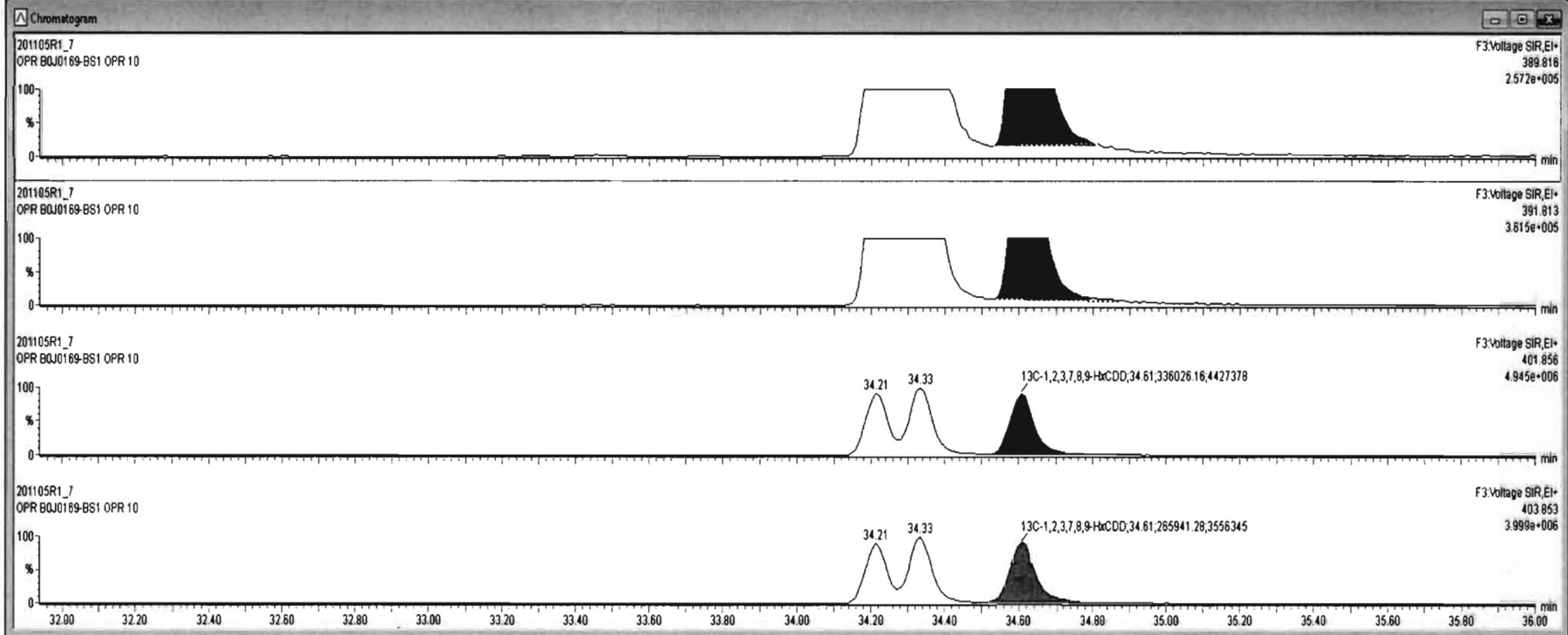






#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	PRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.51e4	0.76	NO	0.95	10.000	26.22	1.001	19.7		0.0460	19.7
2	1,2,3,7,8-PeCDD	3.47e5	0.61	NO	0.89	10.000	30.92	1.001	106		0.132	106
3	1,2,3,4,7,8-HxCDD	2.82e5	1.26	NO	1.02	10.000	34.22	1.000	104		0.277	104
4	1,2,3,6,7,8-HxCDD	2.98e5	1.25	NO	0.91	10.000	34.35	1.000	100		0.282	100
5	1,2,3,7,8,9-HxCDD	2.82e5	1.24	NO	0.93	10.000	34.62	1.000	100		0.303	100
6	1,2,3,4,6,7,8-HpCDD	2.29e5	1.03	NO	0.87	10.000	38.10	1.000	102		0.528	102
7	OCDD	3.42e5	0.86	NO	0.87	10.000	41.06	1.000	204		0.875	204

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



Dataset: Untitled

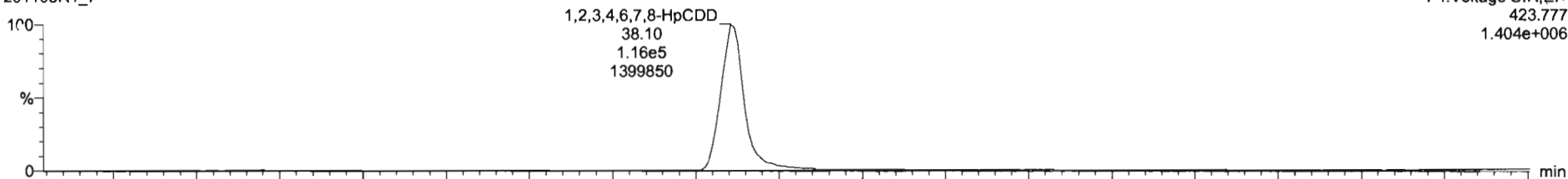
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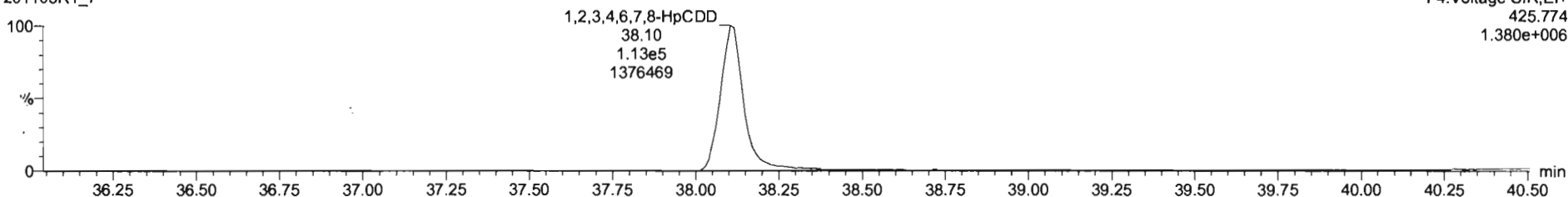
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**1,2,3,4,6,7,8-HpCDD**

201105R1\_7

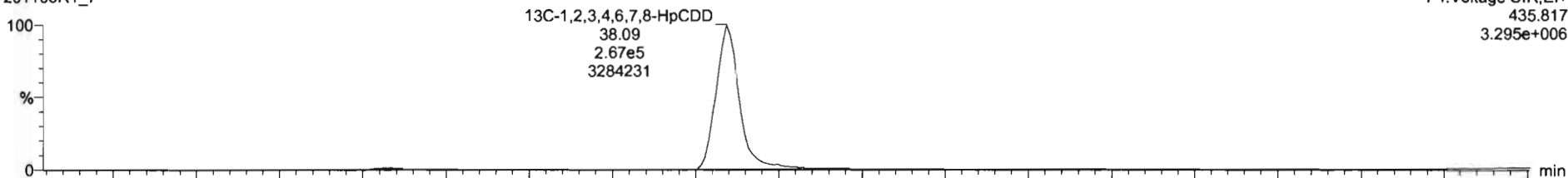


201105R1\_7

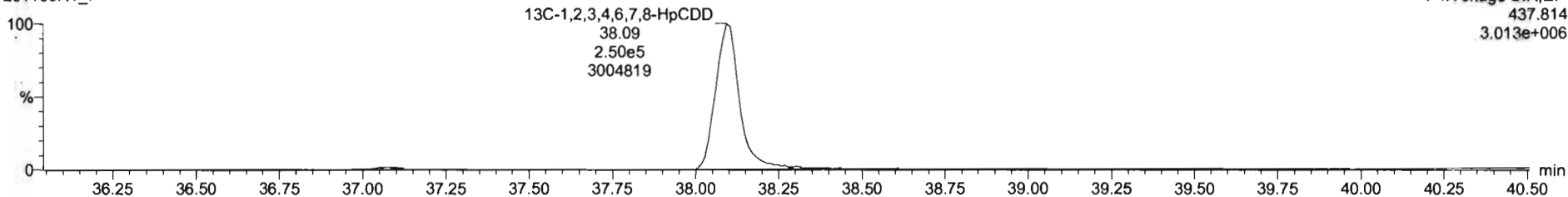


**13C-1,2,3,4,6,7,8-HpCDD**

201105R1\_7



201105R1\_7



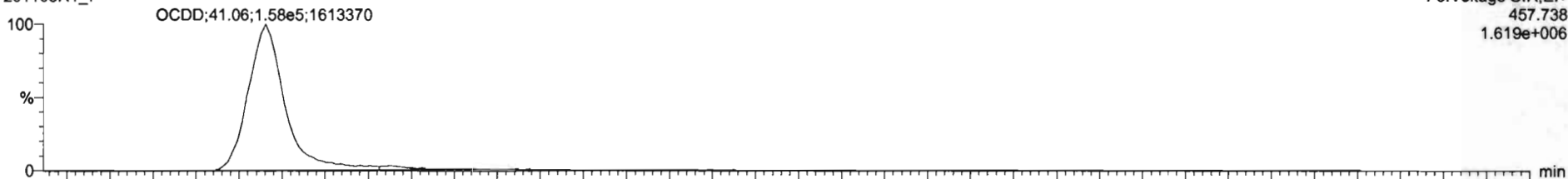
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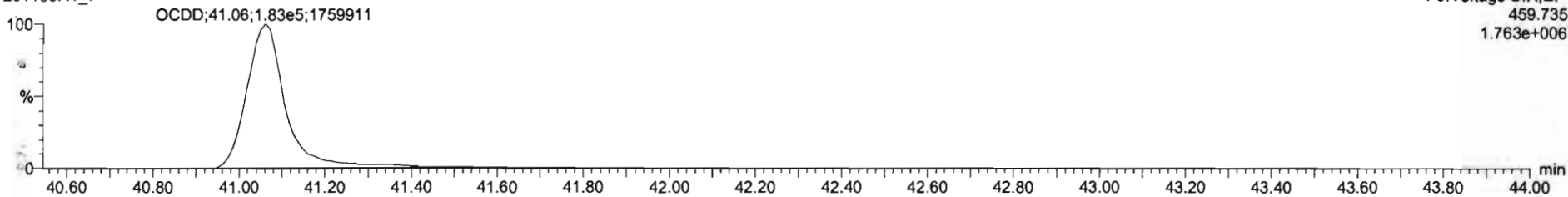
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**OCDD**

201105R1\_7

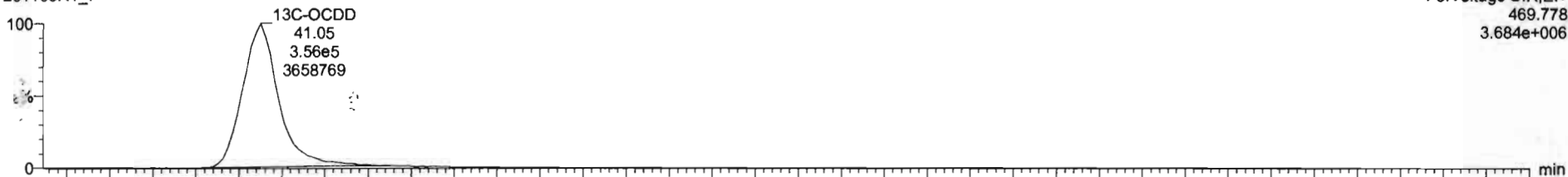


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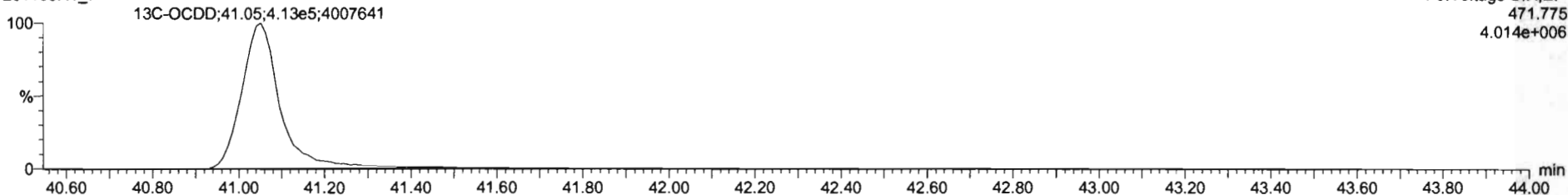


**13C-OCDD**

201105R1\_7



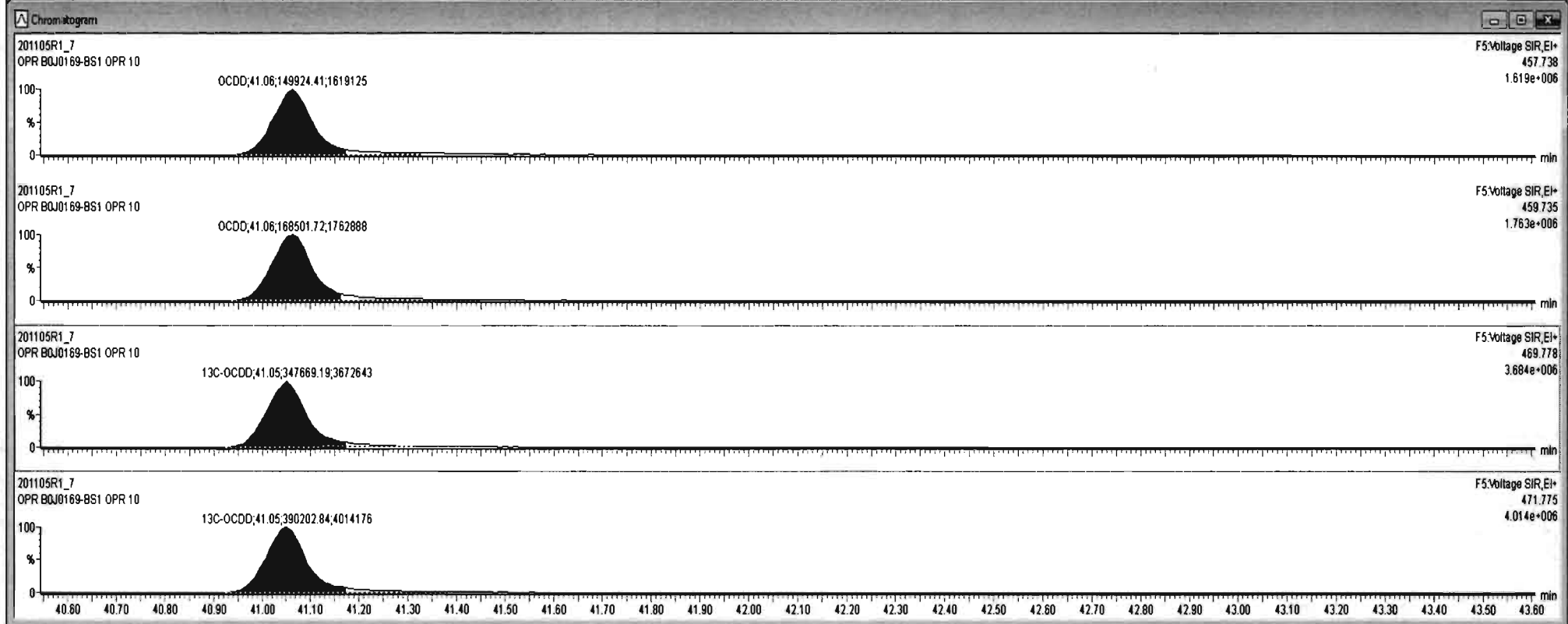
201105R1\_7





#	Name	Resp	RA	n/y	RRF	wt/rd	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.51e4	0.76	NO	0.95	10.000	26.22	1.001	19.7		0.0460	19.7
2	1,2,3,7,8-PeCDD	3.47e5	0.61	NO	0.89	10.000	30.92	1.001	106		0.132	106
3	1,2,3,4,7,8-HxCDD	2.82e5	1.26	NO	1.02	10.000	34.22	1.000	104		0.277	104
4	1,2,3,6,7,8-HxCDD	2.98e5	1.25	NO	0.91	10.000	34.35	1.000	100		0.282	100
5	1,2,3,7,8,9-HxCDD	2.82e5	1.24	NO	0.93	10.000	34.62	1.000	100		0.303	100
6	1,2,3,4,6,7,8-HpCDD	2.28e5	1.03	NO	0.87	10.000	38.10	1.000	102		0.528	102
7	OCDD	3.18e5	0.89	NO	0.87	10.000	41.06	1.000	198		0.596	198

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



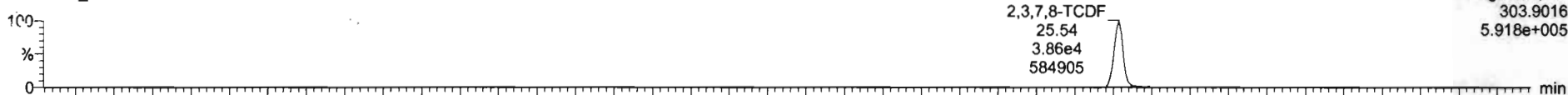
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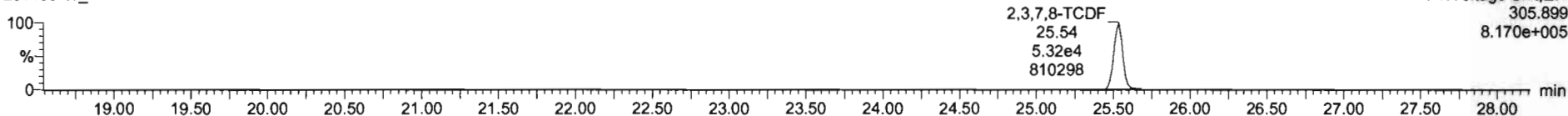
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**2,3,7,8-TCDF**

201105R1\_7

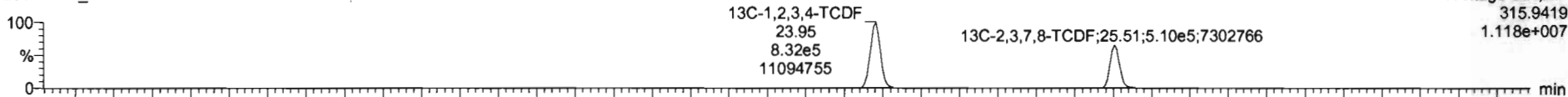


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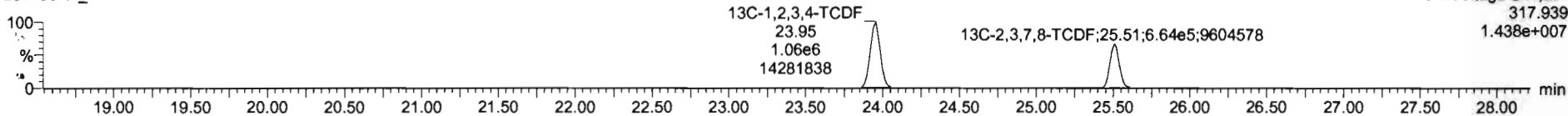


**13C-2,3,7,8-TCDF**

201105R1\_7

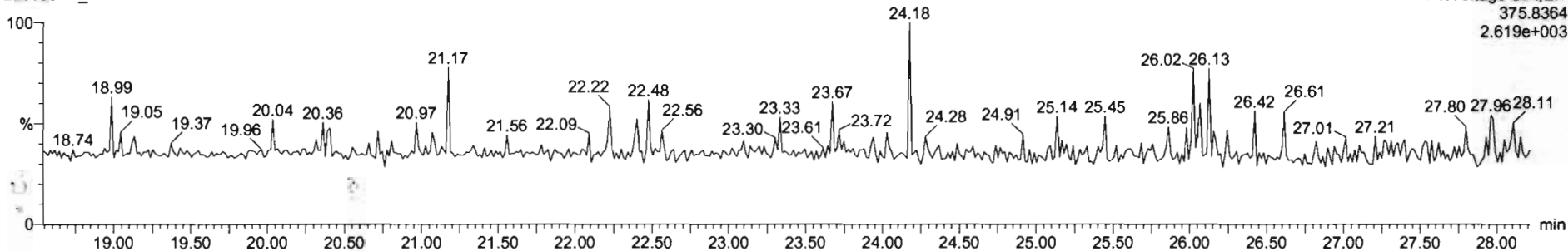


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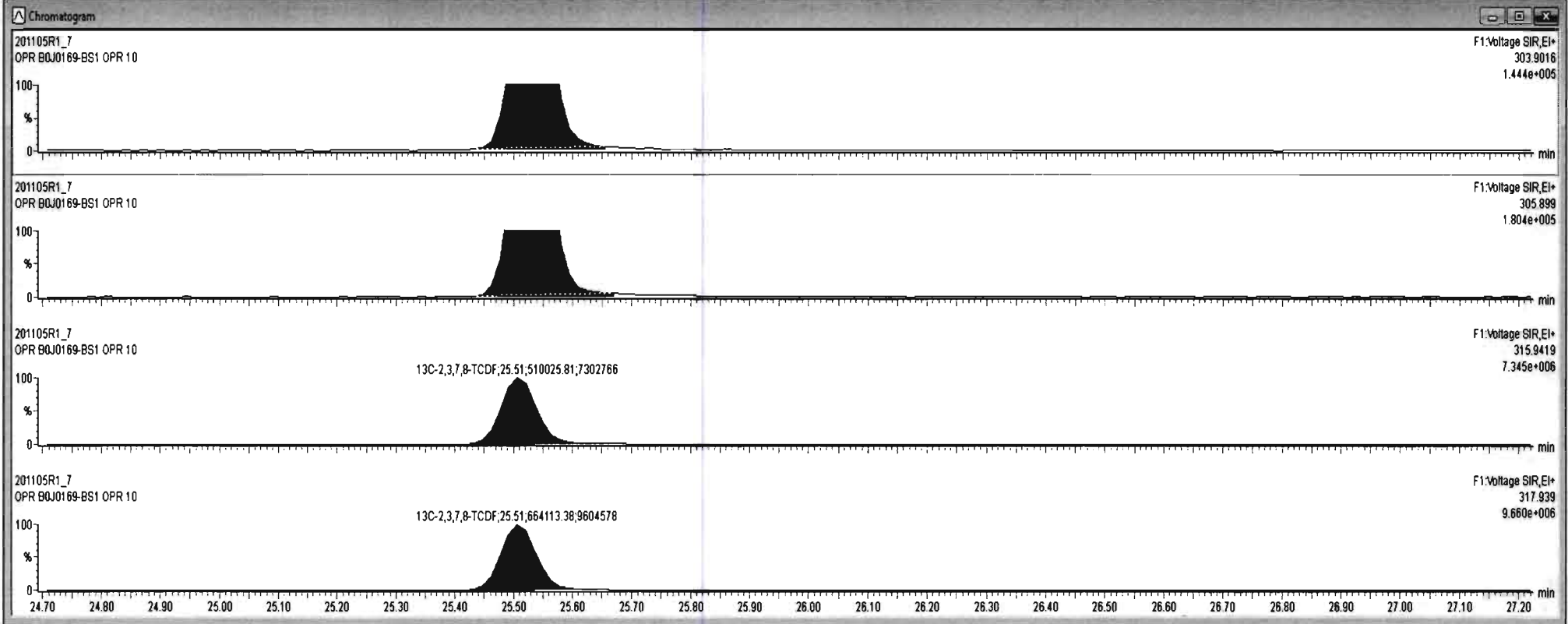
**DPE1**

201105R1\_7



Name	Resp	RA	n/y	RRF	wtAval	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	8.51e4	0.76	NO	0.95	10.000	26.22	1.001	19.7		0.0460	19.7
2 1,2,3,7,8-PeCDD	3.47e5	0.61	NO	0.89	10.000	30.92	1.001	106		0.132	106
3 1,2,3,4,7,8-HxCDD	2.82e5	1.26	NO	1.02	10.000	34.22	1.000	104		0.277	104
4 1,2,3,6,7,8-HxCDD	2.98e5	1.25	NO	0.91	10.000	34.35	1.000	100		0.282	100
5 1,2,3,7,8,9-HxCDD	2.82e5	1.24	NO	0.93	10.000	34.62	1.000	100		0.303	100
6 1,2,3,4,6,7,8-HpCDD	2.29e5	1.03	NO	0.87	10.000	38.10	1.000	102		0.528	102
7 OCDD	3.40e5	0.88	NO	0.87	10.000	41.06	1.000	203		0.875	203

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



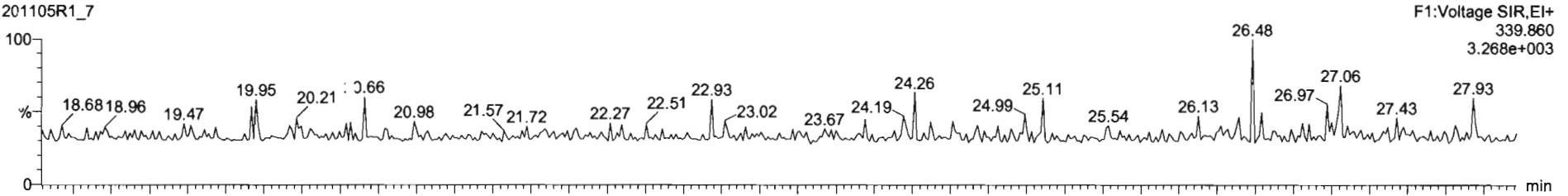
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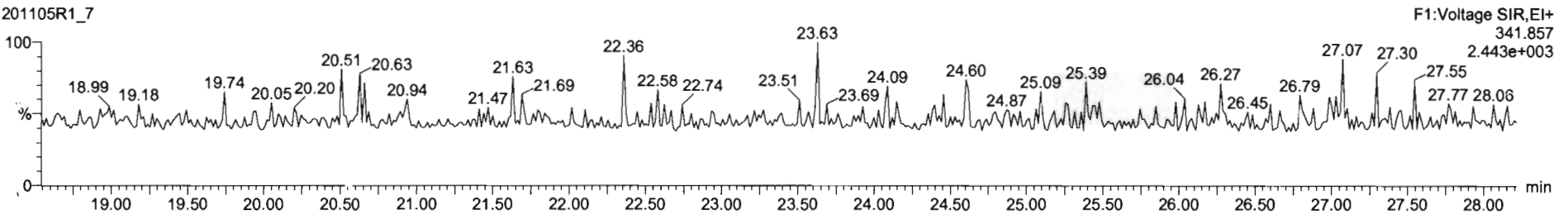
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201105R1\_7

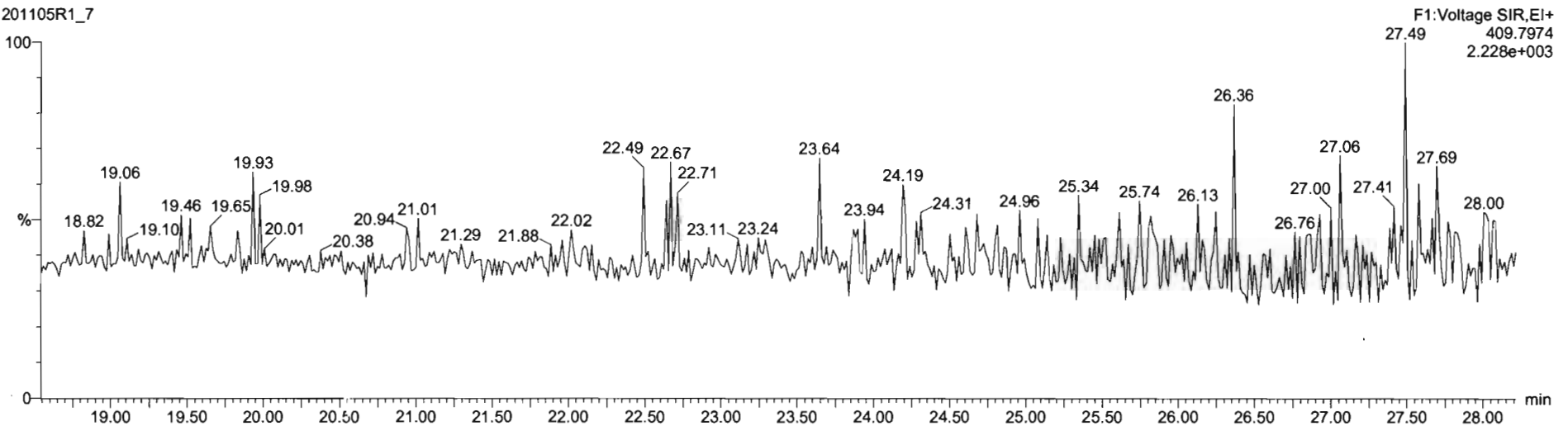


201105R1\_7



DPE6

201105R1\_7



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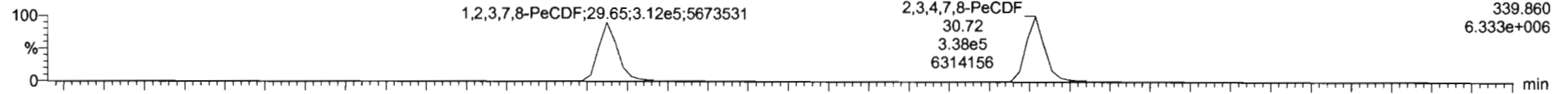
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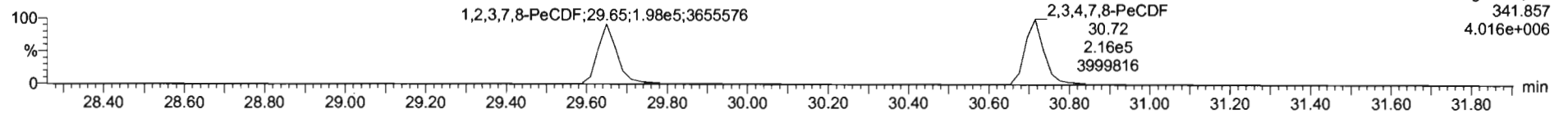
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**1,2,3,7,8-PeCDF**

201105R1\_7

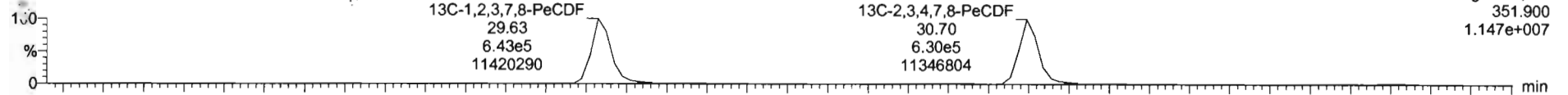


201105R1\_7

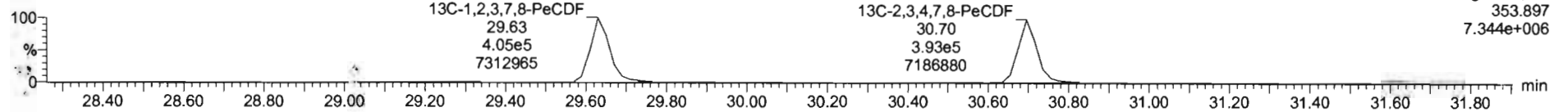


**13C-1,2,3,7,8-PeCDF**

201105R1\_7

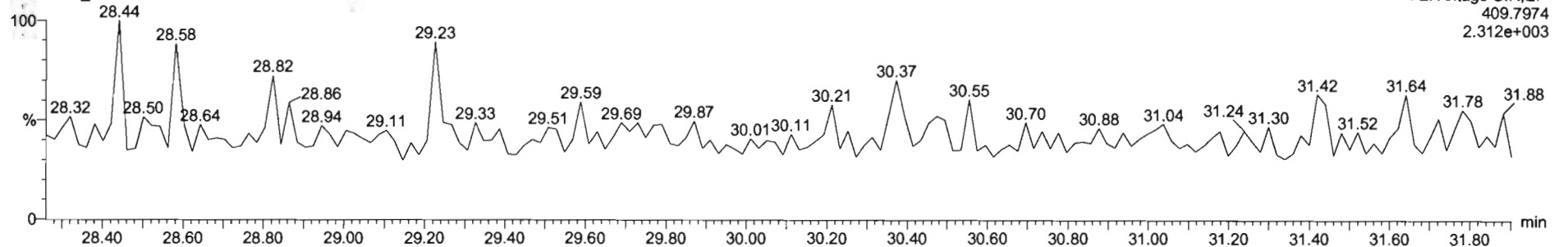


201105R1\_7



**DPE2**

201105R1\_7



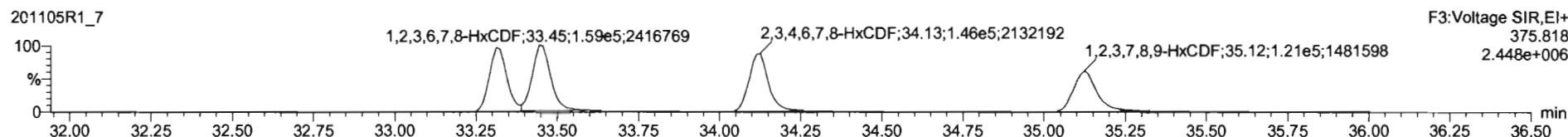
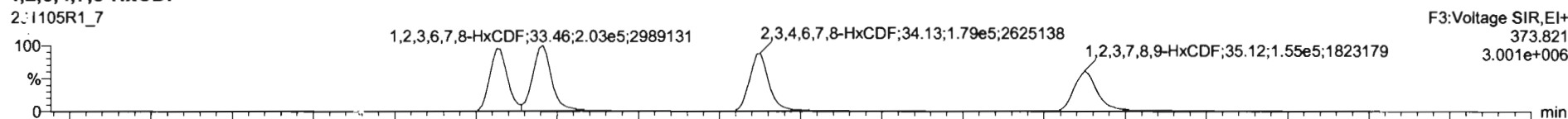


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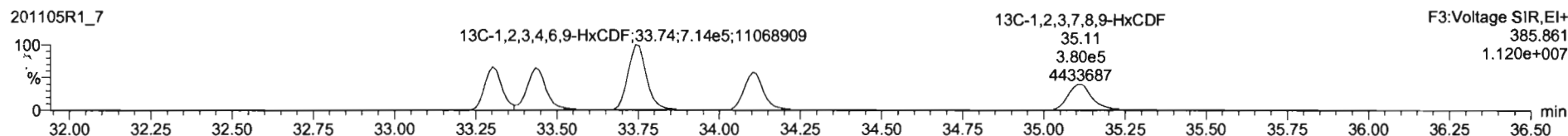
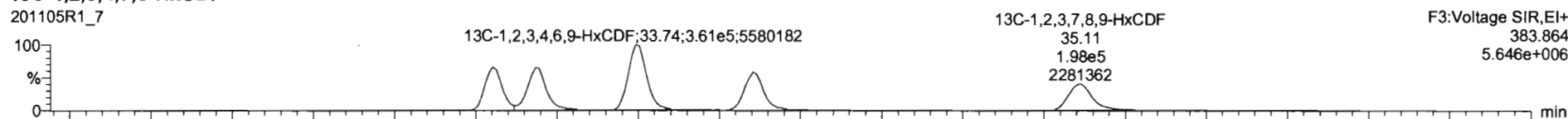
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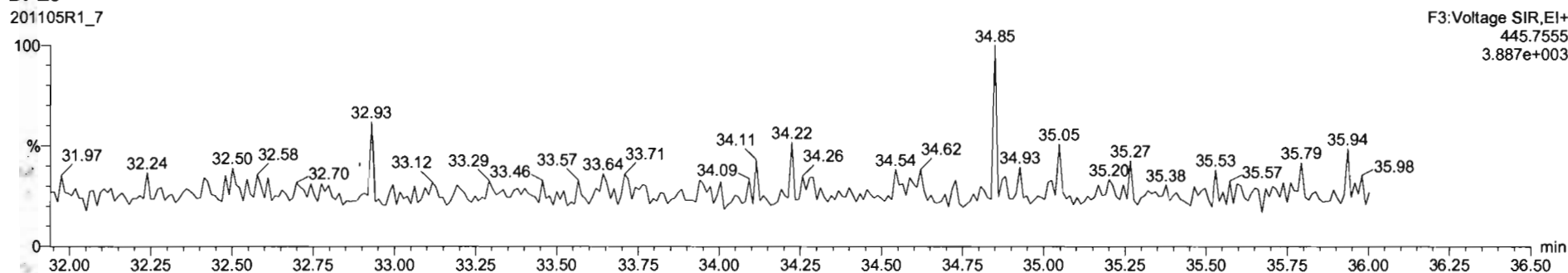
1,2,3,4,7,8-HxCDF



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



DPE3

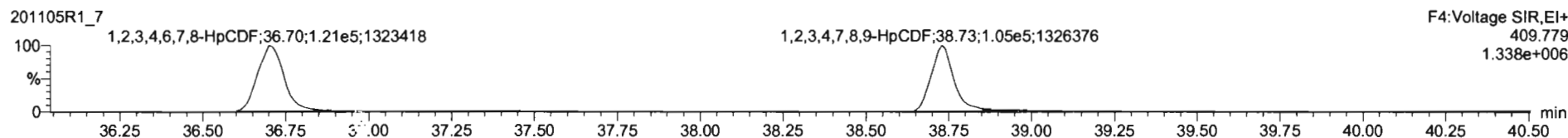
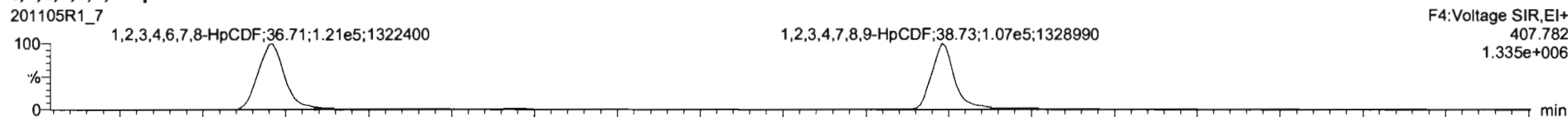


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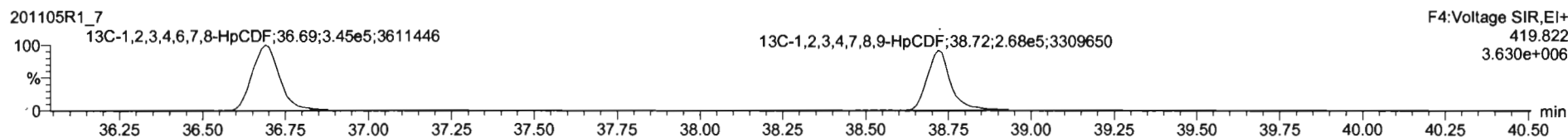
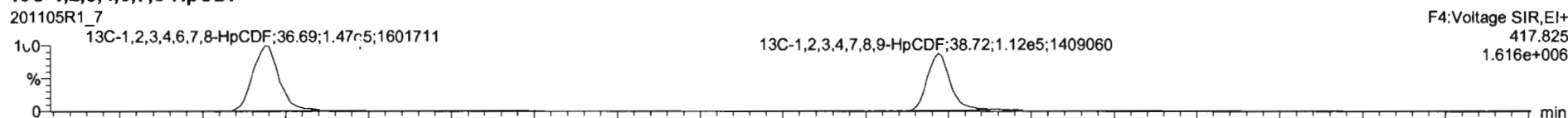
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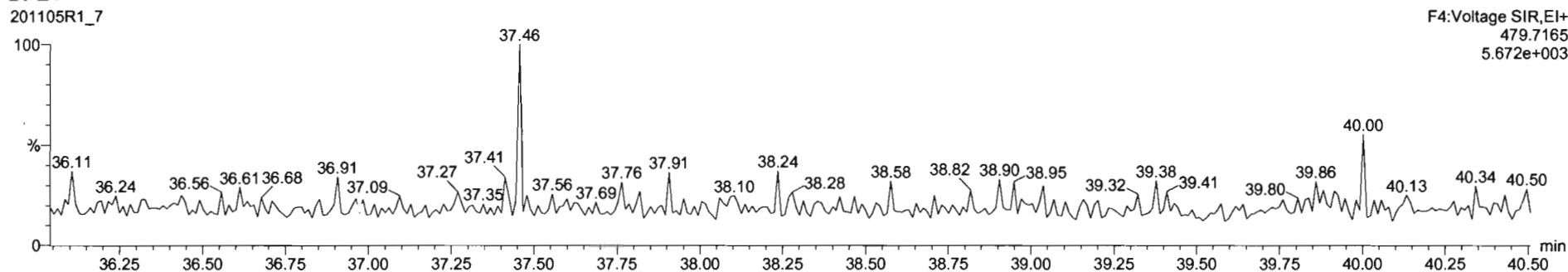
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**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**



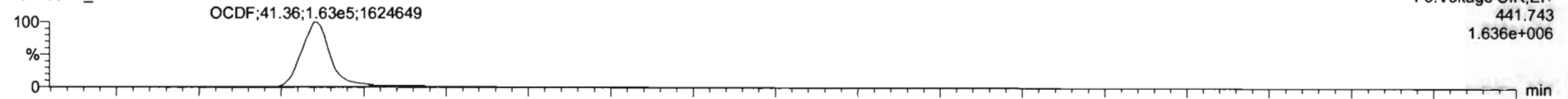
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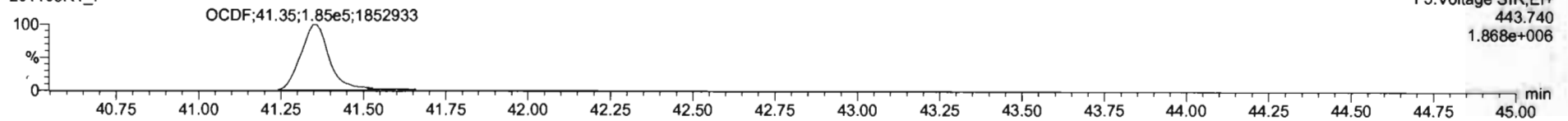
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**OCDF**

201105R1\_7

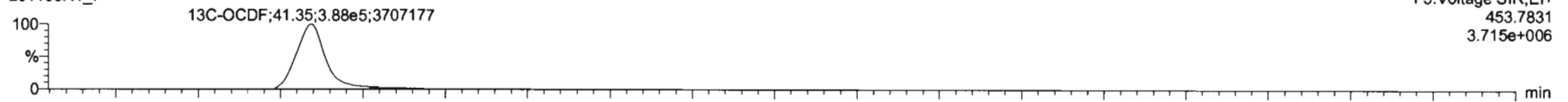


201105R1\_7

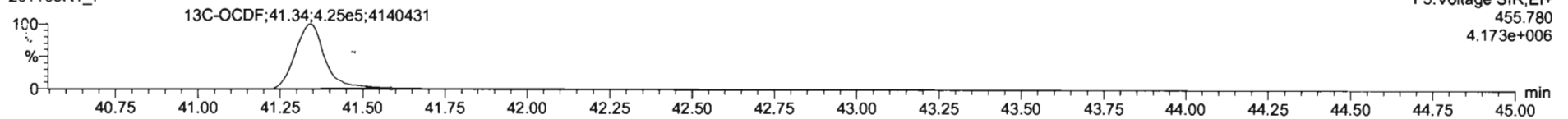


**13C-OCDF**

201105R1\_7

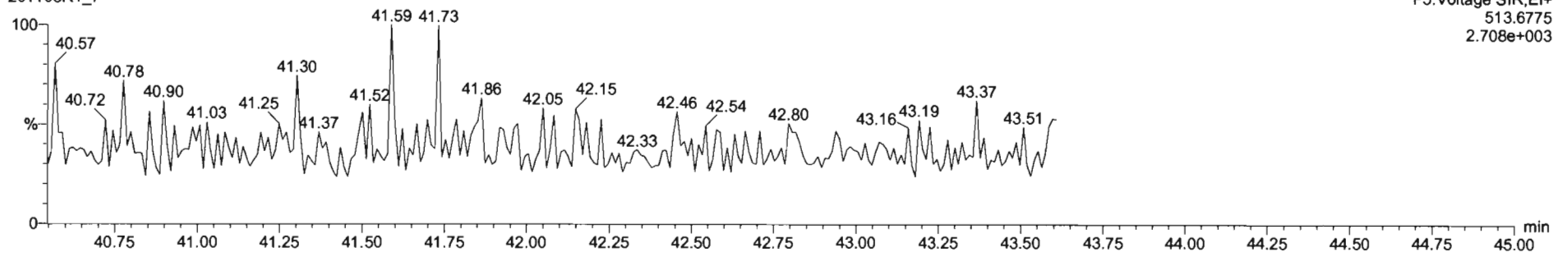


201105R1\_7



**DPE5**

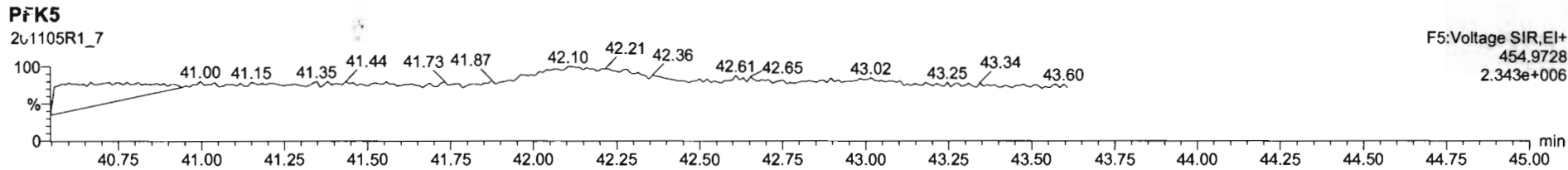
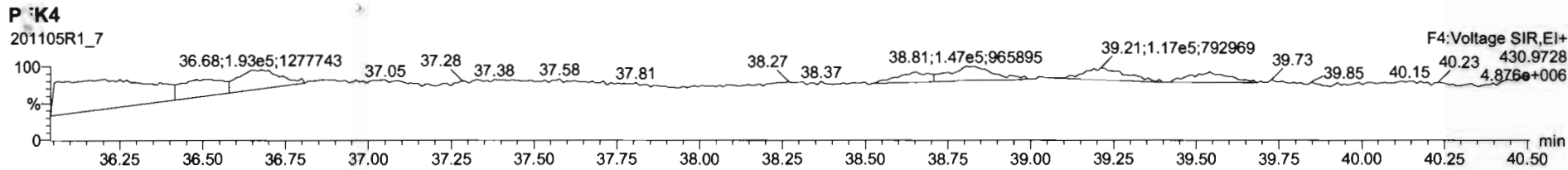
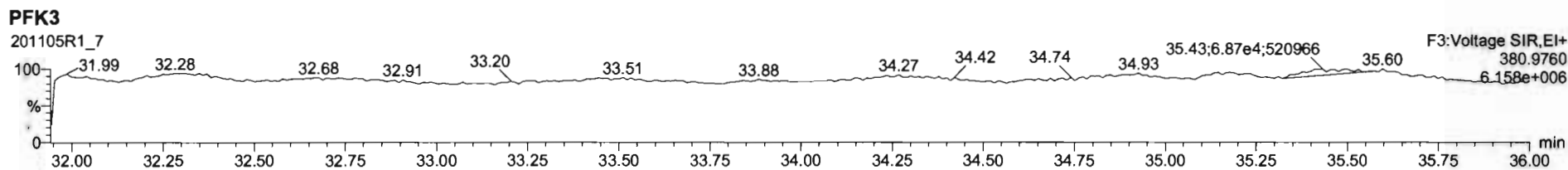
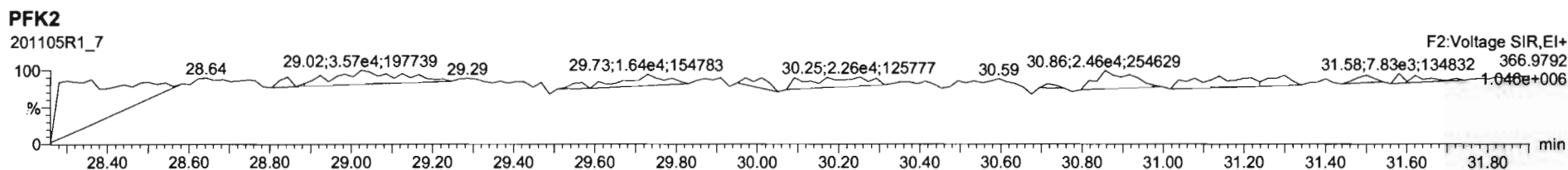
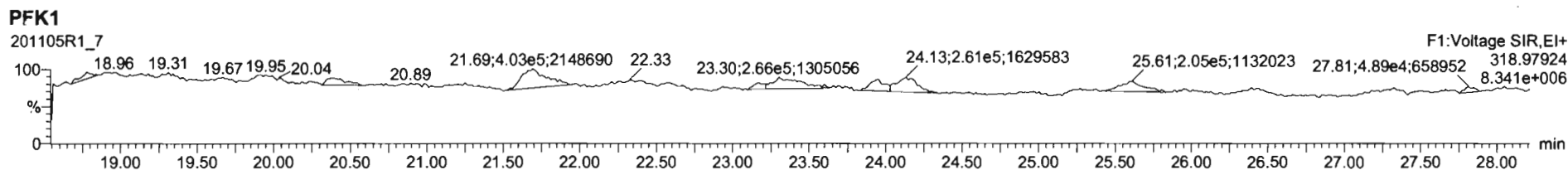
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Dataset: U:\VG12.PRO\Results\201110R1\201110R1-8.qld

Last Altered: Wednesday, November 11, 2020 08:28:25 Pacific Standard Time  
Printed: Wednesday, November 11, 2020 08:28:44 Pacific Standard Time

GRB 11/11/2020  
CT 11/12/2020

Method: Untitled 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

#	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	1.37e3	0.54	YES	0.950	10.100	26.186	26.17	1.001	1.001	0.39339		0.0870	0.319
2	2 1,2,3,7,8-PeCDD	2.06e3	0.72	NO	0.885	10.100	30.885	30.88	1.000	1.000	0.84553		0.109	0.846
3	3 1,2,3,4,7,8-HxCDD	2.47e3	1.27	NO	1.02	10.100	34.216	34.20	1.001	1.000	1.0124		0.331	1.01
4	4 1,2,3,6,7,8-HxCDD	1.11e4	1.23	NO	0.915	10.100	34.309	34.32	1.000	1.001	4.4633		0.330	4.46
5	5 1,2,3,7,8,9-HxCDD	5.51e3	1.17	NO	0.934	10.100	34.583	34.57	1.000	1.000	2.2772		0.354	2.28
6	6 1,2,3,4,6,7,8-HpCDD	2.16e5	1.03	NO	0.870	10.100	38.058	38.08	1.000	1.001	111.99		1.26	112
7	7 OCDD	1.57e6	0.89	NO	0.872	10.100	41.016	41.03	1.000	1.000	1074.9		1.13	1070
8	8 2,3,7,8-TCDF	2.42e4	0.77	NO	0.824	10.100	25.484	25.49	1.000	1.001	5.3153		0.0950	5.32
9	9 1,2,3,7,8-PeCDF	3.59e4	1.58	NO	0.963	10.100	29.617	29.63	1.000	1.001	8.5212		0.124	8.52
10	10 2,3,4,7,8-PeCDF	2.19e4	1.48	NO	1.07	10.100	30.675	30.69	1.000	1.001	5.0298		0.118	5.03
11	11 1,2,3,4,7,8-HxCDF	4.91e4	1.19	NO	0.953	10.100	33.278	33.29	1.000	1.000	14.967		0.186	15.0
12	12 1,2,3,6,7,8-HxCDF	1.51e4	1.24	NO	1.01	10.100	33.410	33.42	1.000	1.000	4.2625		0.180	4.26
13	13 2,3,4,6,7,8-HxCDF	5.99e3	1.31	NO	0.991	10.100	34.082	34.09	1.000	1.000	1.8649		0.204	1.86
14	14 1,2,3,7,8,9-HxCDF	3.78e3	1.25	NO	0.951	10.100	35.078	35.11	1.000	1.001	1.4009		0.305	1.40
15	15 1,2,3,4,6,7,8-HpCDF	4.99e4	0.99	NO	0.999	10.100	36.657	36.67	1.000	1.001	20.588		0.355	20.6
16	16 1,2,3,4,7,8,9-HpCDF	6.28e3	1.02	NO	1.12	10.100	38.683	38.71	1.000	1.001	3.0384		0.365	3.04
17	17 OCDF	1.06e5	0.82	NO	0.868	10.100	41.320	41.32	1.000	1.000	63.049		0.387	63.0
18	18 13C-2,3,7,8-TCDD	7.28e5	0.80	NO	1.11	10.100	26.132	26.16	1.029	1.030	201.85	102	0.273	
19	19 13C-1,2,3,7,8-PeCDD	5.44e5	0.64	NO	0.859	10.100	30.745	30.88	1.211	1.216	194.87	98.4	0.442	
20	20 13C-1,2,3,4,7,8-HxCDD	4.75e5	1.29	NO	0.700	10.100	34.165	34.19	1.013	1.014	185.73	93.8	0.559	
21	21 13C-1,2,3,6,7,8-HxCDD	5.37e5	1.29	NO	0.833	10.100	34.294	34.30	1.017	1.017	176.47	89.1	0.470	
22	22 13C-1,2,3,7,8,9-HxCDD	5.13e5	1.24	NO	0.762	10.100	34.563	34.57	1.025	1.025	184.35	93.1	0.514	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.38e5	1.05	NO	0.650	10.100	37.999	38.06	1.127	1.129	184.71	93.3	0.945	
24	24 13C-OCDD	6.62e5	0.93	NO	0.539	10.100	40.929	41.02	1.214	1.216	336.15	84.9	0.777	
25	25 13C-2,3,7,8-TCDF	1.10e6	0.78	NO	0.981	10.100	25.467	25.48	1.003	1.003	200.49	101	0.358	
26	26 13C-1,2,3,7,8-PeCDF	8.67e5	1.63	NO	0.792	10.100	29.506	29.61	1.162	1.166	196.71	99.3	0.851	
27	27 13C-2,3,4,7,8-PeCDF	8.07e5	1.59	NO	0.778	10.100	30.557	30.67	1.204	1.208	186.23	94.0	0.866	
28	28 13C-1,2,3,4,7,8-HxCDF	6.82e5	0.51	NO	0.954	10.100	33.269	33.28	0.987	0.987	195.63	98.8	0.622	
29	29 13C-1,2,3,6,7,8-HxCDF	6.95e5	0.51	NO	1.01	10.100	33.407	33.41	0.991	0.991	189.22	95.6	0.590	
30	30 13C-2,3,4,6,7,8-HxCDF	6.42e5	0.50	NO	0.921	10.100	34.064	34.08	1.010	1.011	190.67	96.3	0.644	
31	31 13C-1,2,3,7,8,9-HxCDF	5.61e5	0.51	NO	0.803	10.100	35.062	35.08	1.040	1.040	191.23	96.6	0.738	

Dataset: U:\VG12.PRO\Results\201110R1\201110R1-8.qld

Last Altered: Wednesday, November 11, 2020 08:28:25 Pacific Standard Time

Printed: Wednesday, November 11, 2020 08:28:44 Pacific Standard Time

Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

#	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	4.81e5	0.43	NO	0.735	10.100	36.627	36.65	1.086	1.087	178.87	90.3	0.748	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.64e5	0.42	NO	0.568	10.100	38.609	38.68	1.145	1.147	175.47	88.6	0.970	
34	34 13C-OCDF	7.64e5	0.88	NO	0.629	10.100	41.219	41.31	1.222	1.225	332.52	84.0	0.526	
35	35 37Cl-2,3,7,8-TCDD	3.35e5			1.09	10.100	26.150	26.17	1.030	1.031	94.758	120	0.102	
36	36 13C-1,2,3,4-TCDD	6.44e5	0.81	NO	1.00	10.100	25.430	25.39	1.000	1.000	198.02	100	0.303	
37	37 13C-1,2,3,4-TCDF	1.10e6	0.80	NO	1.00	10.100	24.130	23.91	1.000	1.000	198.02	100	0.351	
38	38 13C-1,2,3,4,6,9-HxCDF	7.24e5	0.51	NO	1.00	10.100	33.840	33.72	1.000	1.000	198.02	100	0.593	
39	39 Total Tetra-Dioxins				0.950	10.100	24.620		0.000		4.1586		0.0870	4.48
40	40 Total Penta-Dioxins				0.885	10.100	29.960		0.000		5.6944		0.109	7.32
41	41 Total Hexa-Dioxins				0.915	10.100	33.635		0.000		41.436		0.353	41.4
42	42 Total Hepta-Dioxins				0.870	10.100	37.640		0.000		281.86		1.26	282
43	43 Total Tetra-Furans				0.824	10.100	23.610		0.000		17.963		0.0950	19.0
44	44 1st Func. Penta-Furans				0.963	10.100	27.230		0.000		4.6466		0.0259	4.65
45	45 Total Penta-Furans				0.963	10.100	29.275		0.000		26.086		0.128	26.1
46	46 Total Hexa-Furans				0.991	10.100	33.555		0.000		48.672		0.211	48.7
47	47 Total Hepta-Furans				0.999	10.100	37.835		0.000		63.205		0.379	63.2

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Dataset: U:\VG12.PRO\Results\201110R1\201110R1-8.qld

Last Altered: Wednesday, November 11, 2020 08:28:25 Pacific Standard Time

Printed: Wednesday, November 11, 2020 08:28:44 Pacific Standard Time

Method: Untitled 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\ddbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.37	1.673e4	1.936e4	1.536e3	1.819e3	0.84	NO	3.354e3	0.96004	0.96004	0.0870
2	Total Tetra-Dioxins	22.73	8.697e3	1.245e4	6.826e2	9.104e2	0.75	NO	1.593e3	0.45594	0.45594	0.0870
3	Total Tetra-Dioxins	23.29	4.222e3	6.155e3	2.972e2	3.434e2	0.87	NO	6.406e2	0.18336	0.18336	0.0870
4	Total Tetra-Dioxins	24.09	5.921e3	8.503e3	4.965e2	6.318e2	0.79	NO	1.128e3	0.32296	0.32296	0.0870
5	Total Tetra-Dioxins	24.28	3.801e3	6.209e3	4.294e2	5.685e2	0.76	NO	9.979e2	0.28561	0.28561	0.0870
6	Total Tetra-Dioxins	24.55	6.414e3	5.648e3	4.244e2	4.958e2	0.86	NO	9.202e2	0.26338	0.26338	0.0870
7	Total Tetra-Dioxins	25.91	3.581e4	4.725e4	2.587e3	3.308e3	0.78	NO	5.895e3	1.6873	1.6873	0.0870
8	2,3,7,8-TCDD	26.17	7.166e3	1.558e4	4.847e2	8.897e2	0.54	YES	1.374e3	0.00000	0.31891	0.0870

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.62	2.297e4	3.047e4	1.875e3	2.753e3	0.68	NO	4.628e3	1.9017	1.9017	0.109
2	Total Penta-Dioxins	29.11	1.561e4	1.797e4	7.262e2	1.013e3	0.72	NO	1.739e3	0.71444	0.71444	0.109
3	Total Penta-Dioxins	29.63	1.287e4	1.799e4	7.493e2	1.041e3	0.72	NO	1.790e3	0.73554	0.73554	0.109
4	Total Penta-Dioxins	29.81	1.821e4	2.498e4	8.806e2	1.232e3	0.72	NO	0.000e0	0.00000	0.86782	0.109
5	Total Penta-Dioxins	29.83	1.266e4	1.490e4	5.718e2	8.120e2	0.70	NO	0.000e0	0.00000	0.56858	0.109
6	Total Penta-Dioxins	30.11	1.110e4	1.851e4	8.747e2	1.595e3	0.55	NO	2.470e3	1.0149	1.0149	0.109
7	Total Penta-Dioxins	30.41	3.127e3	7.165e3	2.509e2	3.557e2	0.71	NO	6.066e2	0.24923	0.24923	0.109
8	1,2,3,7,8-PeCDD	30.88	1.632e4	2.186e4	8.625e2	1.195e3	0.72	NO	2.058e3	0.84553	0.84553	0.109
9	Total Penta-Dioxins	30.96	5.124e3	5.013e3	2.565e2	2.787e2	0.92	YES	0.000e0	0.00000	0.18663	0.109
10	Total Penta-Dioxins	31.24	4.337e3	7.341e3	2.164e2	3.511e2	0.62	NO	5.674e2	0.23313	0.23313	0.109

Dataset: U:\VG12.PRO\Results\201110R1\201110R1-8.qld

Last Altered: Wednesday, November 11, 2020 08:28:25 Pacific Standard Time

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Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.55	3.326e5	2.756e5	1.822e4	1.443e4	1.26	NO	3.265e4	13.908	13.908	0.353
2	Total Hexa-Dioxins	33.16	4.302e4	3.777e4	2.477e3	2.144e3	1.16	NO	4.621e3	1.9686	1.9686	0.353
3	Total Hexa-Dioxins	33.44	2.657e5	1.999e5	2.014e4	1.623e4	1.24	NO	3.638e4	15.495	15.495	0.353
4	Total Hexa-Dioxins	33.55	3.917e4	2.762e4	1.984e3	1.576e3	1.26	NO	3.560e3	1.5166	1.5166	0.353
5	1,2,3,4,7,8-HxCDD	34.20	2.186e4	1.842e4	1.381e3	1.089e3	1.27	NO	2.470e3	1.0124	1.0124	0.331
6	1,2,3,6,7,8-HxCDD	34.32	8.778e4	6.814e4	6.103e3	4.965e3	1.23	NO	1.107e4	4.4633	4.4633	0.330
7	Total Hexa-Dioxins	34.49	1.408e4	1.102e4	1.010e3	8.573e2	1.18	NO	1.867e3	0.79538	0.79538	0.353
8	1,2,3,7,8,9-HxCDD	34.57	3.831e4	3.466e4	2.972e3	2.542e3	1.17	NO	5.514e3	2.2772	2.2772	0.354

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.05	1.764e6	1.711e6	1.651e5	1.620e5	1.02	NO	3.271e5	169.87	169.87	1.26
2	1,2,3,4,6,7,8-HpCDD	38.08	1.371e6	1.353e6	1.092e5	1.065e5	1.03	NO	2.156e5	111.99	111.99	1.26



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Dataset: U:\VG12.PRO\Results\201110R1\201110R1-8.qld

Last Altered: Wednesday, November 11, 2020 08:28:25 Pacific Standard Time

Printed: Wednesday, November 11, 2020 08:28:44 Pacific Standard Time

Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc. .	EMPC	DL
1	Total Tetra-Furans	20.18	5.848e3	9.866e3	5.858e2	7.429e2	0.79	NO	1.329e3	0.29127	0.29127	0.0950
2	Total Tetra-Furans	20.72	7.531e3	7.640e3	4.844e2	5.837e2	0.83	NO	1.068e3	0.23415	0.23415	0.0950
3	Total Tetra-Furans	21.50	4.234e4	5.233e4	3.638e3	4.847e3	0.75	NO	8.485e3	1.8601	1.8601	0.0950
4	Total Tetra-Furans	22.43	3.267e4	4.303e4	3.752e3	4.896e3	0.77	NO	8.649e3	1.8959	1.8959	0.0950
5	Total Tetra-Furans	22.89	1.848e4	1.844e4	1.315e3	1.698e3	0.77	NO	3.013e3	0.66050	0.66050	0.0950
6	Total Tetra-Furans	23.02	6.620e3	8.286e3	5.422e2	8.226e2	0.66	NO	1.365e3	0.29920	0.29920	0.0950
7	Total Tetra-Furans	23.24	1.310e4	1.730e4	1.023e3	1.155e3	0.89	NO	2.178e3	0.47735	0.47735	0.0950
8	Total Tetra-Furans	23.66	3.376e3	4.966e3	2.410e2	3.497e2	0.69	NO	5.907e2	0.12949	0.12949	0.0950
9	Total Tetra-Furans	23.75	5.755e3	6.890e3	4.232e2	4.856e2	0.87	NO	9.088e2	0.19922	0.19922	0.0950
10	Total Tetra-Furans	23.98	1.743e4	2.509e4	1.104e3	1.381e3	0.80	NO	2.485e3	0.54478	0.54478	0.0950
11	Total Tetra-Furans	24.03	2.354e4	3.296e4	1.889e3	2.658e3	0.71	NO	0.000e0	0.00000	0.99668	0.0950
12	Total Tetra-Furans	24.49	1.073e5	1.333e5	8.101e3	1.007e4	0.80	NO	1.817e4	3.9839	3.9839	0.0950
13	Total Tetra-Furans	24.81	8.056e3	1.115e4	4.637e2	6.615e2	0.70	NO	1.125e3	0.24667	0.24667	0.0950
14	Total Tetra-Furans	25.23	4.482e3	7.711e3	3.513e2	4.514e2	0.78	NO	8.027e2	0.17596	0.17596	0.0950
15	Total Tetra-Furans	25.37	1.797e4	2.531e4	1.207e3	1.622e3	0.74	NO	2.829e3	0.62024	0.62024	0.0950
16	2,3,7,8-TCDF	25.49	1.621e5	1.910e5	1.054e4	1.371e4	0.77	NO	2.425e4	5.3153	5.3153	0.0950
17	Total Tetra-Furans	25.82	1.328e4	2.072e4	1.090e3	1.472e3	0.74	NO	2.562e3	0.56166	0.56166	0.0950
18	Total Tetra-Furans	27.03	5.187e3	6.839e3	3.161e2	3.666e2	0.86	NO	6.826e2	0.14964	0.14964	0.0950
19	Total Tetra-Furans	27.37	9.658e3	1.272e4	6.173e2	8.320e2	0.74	NO	1.449e3	0.31771	0.31771	0.0950

**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	27.00	1.931e5	1.213e5	1.173e4	7.180e3	1.63	NO	1.891e4	4.6466	4.6466	0.0259

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Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.46	2.365e4	1.155e4	1.598e3	8.970e2	1.78	NO	2.495e3	0.61319	0.61319	0.128
2	Total Penta-Furans	28.64	2.089e5	1.262e5	1.497e4	9.149e3	1.64	NO	2.412e4	5.9288	5.9288	0.128
3	Total Penta-Furans	29.27	4.136e4	2.866e4	2.759e3	1.791e3	1.54	NO	4.550e3	1.1183	1.1183	0.128
4	Total Penta-Furans	29.43	5.942e4	3.562e4	3.214e3	1.869e3	1.72	NO	5.083e3	1.2493	1.2493	0.128
5	1,2,3,7,8-PeCDF	29.63	4.130e5	2.594e5	2.202e4	1.391e4	1.58	NO	3.593e4	8.5212	8.5212	0.124
6	Total Penta-Furans	29.87	1.369e5	9.087e4	7.773e3	4.884e3	1.59	NO	1.266e4	3.1108	3.1108	0.128
7	Total Penta-Furans	30.49	1.032e4	7.378e3	5.319e2	3.838e2	1.39	NO	9.158e2	0.22507	0.22507	0.128
8	2,3,4,7,8-PeCDF	30.69	2.657e5	1.760e5	1.307e4	8.818e3	1.48	NO	2.189e4	5.0298	5.0298	0.118
9	Total Penta-Furans	31.60	1.175e4	9.577e3	7.034e2	4.736e2	1.49	NO	1.177e3	0.28929	0.28929	0.128

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.03	9.481e4	7.881e4	5.219e3	4.427e3	1.18	NO	9.646e3	2.9890	2.9890	0.211
2	Total Hexa-Furans	32.20	3.295e5	2.661e5	1.793e4	1.444e4	1.24	NO	3.237e4	10.032	10.032	0.211
3	Total Hexa-Furans	32.83	3.697e5	3.014e5	2.086e4	1.744e4	1.20	NO	3.830e4	11.869	11.869	0.211
4	Total Hexa-Furans	33.17	1.266e4	1.461e4	7.272e2	6.736e2	1.08	NO	1.401e3	0.43406	0.43406	0.211
5	1,2,3,4,7,8-HxCDF	33.29	4.559e5	3.805e5	2.666e4	2.247e4	1.19	NO	4.913e4	14.967	14.967	0.186
6	1,2,3,6,7,8-HxCDF	33.42	1.277e5	1.007e5	8.351e3	6.739e3	1.24	NO	1.509e4	4.2625	4.2625	0.180
7	2,3,4,6,7,8-HxCDF	34.09	4.595e4	3.549e4	3.400e3	2.587e3	1.31	NO	5.987e3	1.8649	1.8649	0.204
8	1,2,3,7,8,9-HxCDF	35.11	4.308e4	3.316e4	2.097e3	1.678e3	1.25	NO	3.775e3	1.4009	1.4009	0.305
9	Total Hexa-Furans	35.13	3.810e4	3.316e4	1.499e3	1.254e3	1.20	NO	2.754e3	0.85324	0.85324	0.211

**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	36.67	2.705e5	2.706e5	2.488e4	2.502e4	0.99	NO	4.990e4	20.588	20.588	0.355
2	Total Hepta-Furans	37.40	4.640e5	4.602e5	4.202e4	4.226e4	0.99	NO	8.428e4	39.579	39.579	0.379
3	1,2,3,4,7,8,9-HpCDF	38.71	4.205e4	4.351e4	3.165e3	3.111e3	1.02	NO	6.276e3	3.0384	3.0384	0.365

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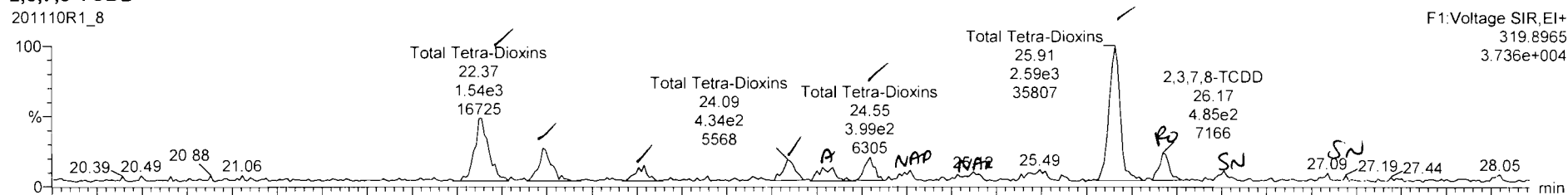
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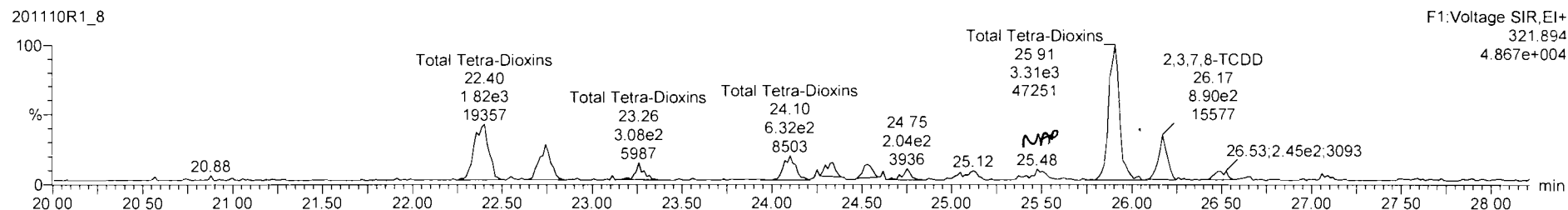
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### 2,3,7,8-TCDD

201110R1\_8

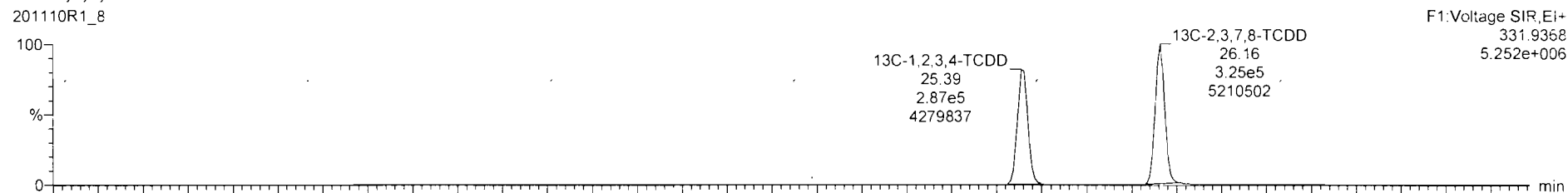


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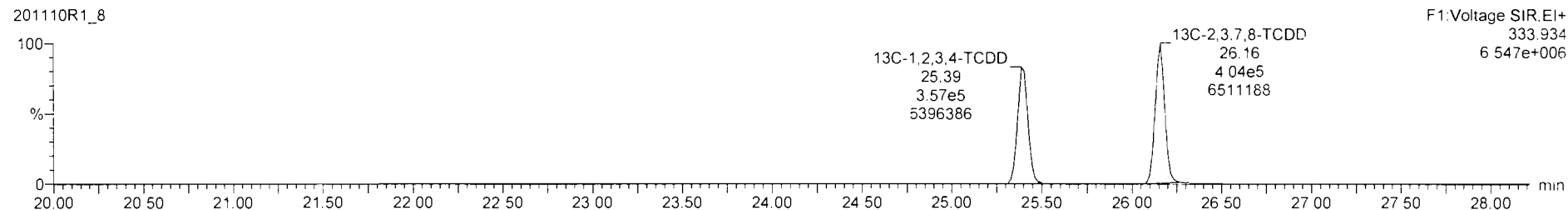


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201110R1\_8



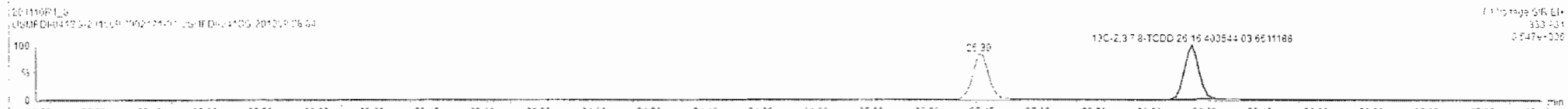
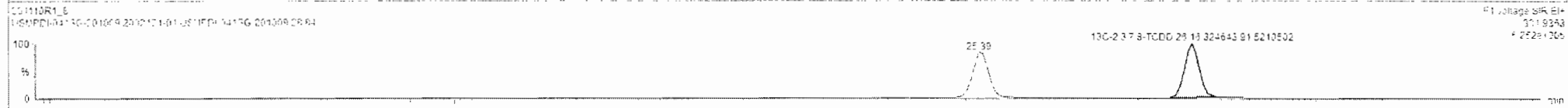
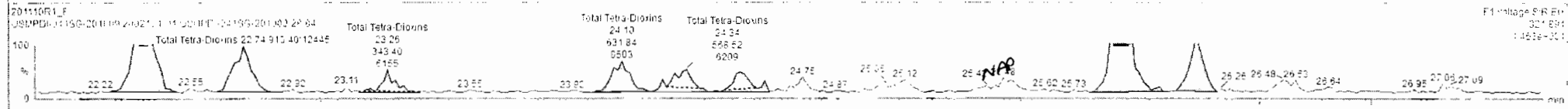
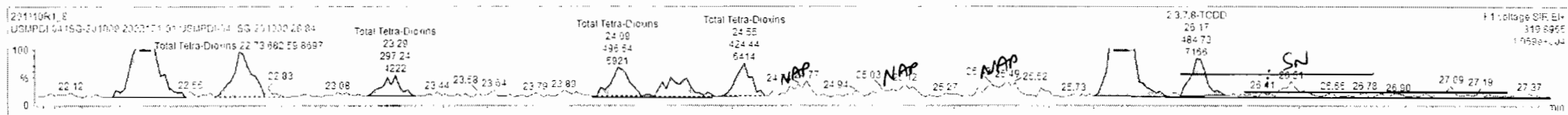
201110R1\_8



201110R1\_8 - 2002171-01 USMPDI-041SG-201009 28.84 : USMPDI-041SG-201009

Name	Resp	RA	n/y	RF	w/wd	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.6501	10.100			4.16		0.0870	4.48
40 Total Penta-Dioxins				0.8855	16.100			5.28		0.138	7.28
41 Total Hexa-Dioxins				0.9145	16.100			41.5		0.350	42.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.37	1.526e3	1.819e3	0.84	NO	0.96004	0.96004
2 Total Tetra-Dioxins	22.73	8.826e2	5.104e2	0.75	NO	0.45594	0.45594
3 Total Tetra-Dioxins	23.29	2.572e2	3.434e2	0.87	NO	0.18338	0.18338
4 Total Tetra-Dioxins	24.09	4.965e2	8.316e2	0.79	NO	0.32258	0.32258
5 Total Tetra-Dioxins	24.76	4.294e2	8.855e2	0.78	NO	0.28561	0.28561
6 Total Tetra-Dioxins	24.55	4.244e2	8.959e2	0.58	NO	0.26328	0.26328
7 Total Tetra-Dioxins	25.91	2.587e2	0.308e2	0.78	NO	1.8872	1.8872
8 2,3,7,8-TCDD	26.17	4.847e2	8.857e2	0.54	ES	0.31851	0.00000



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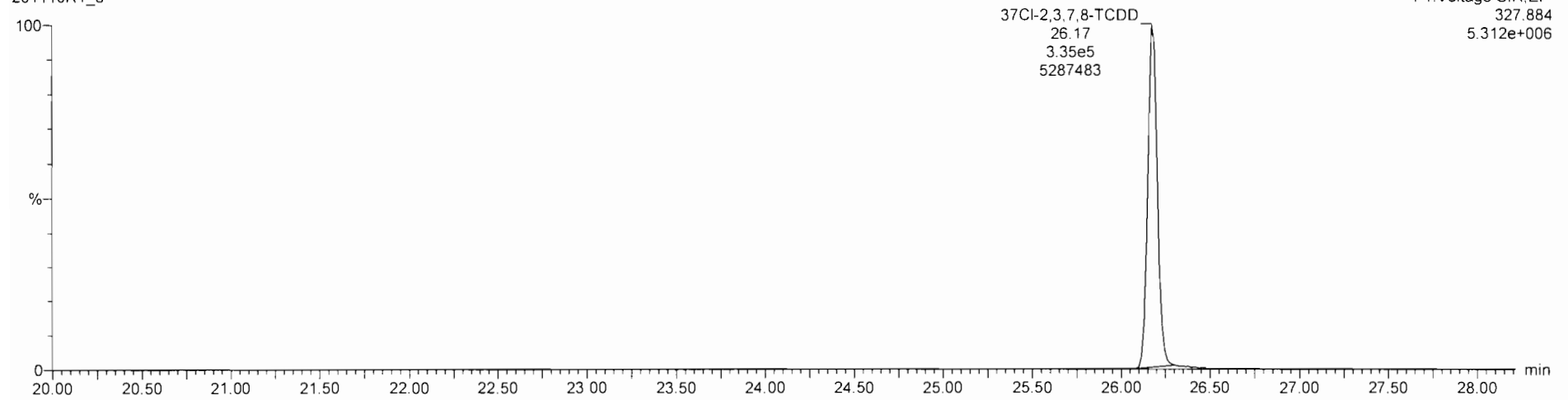
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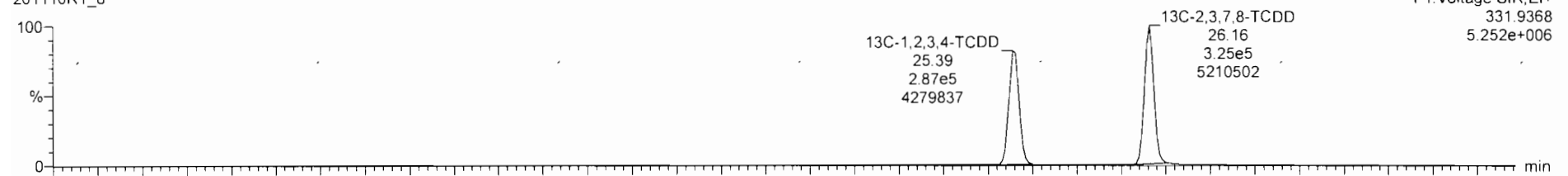
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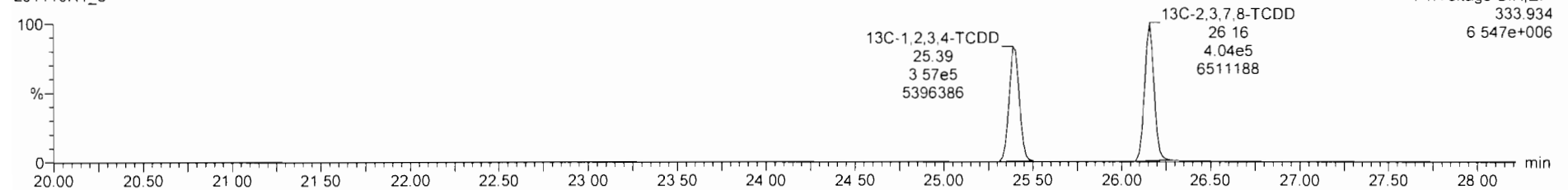


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201110R1\_8



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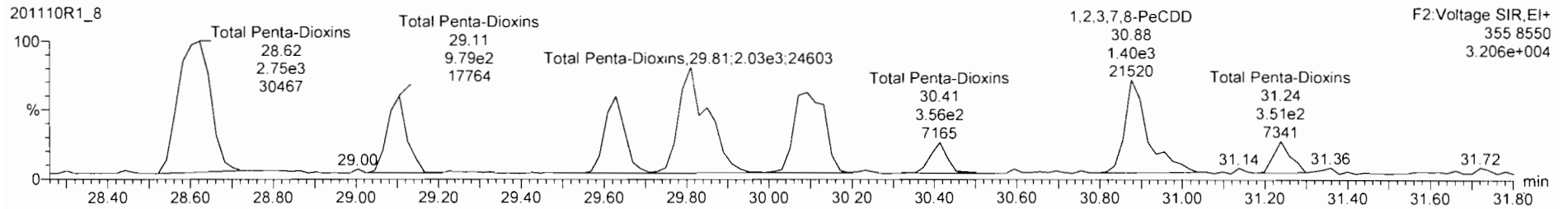
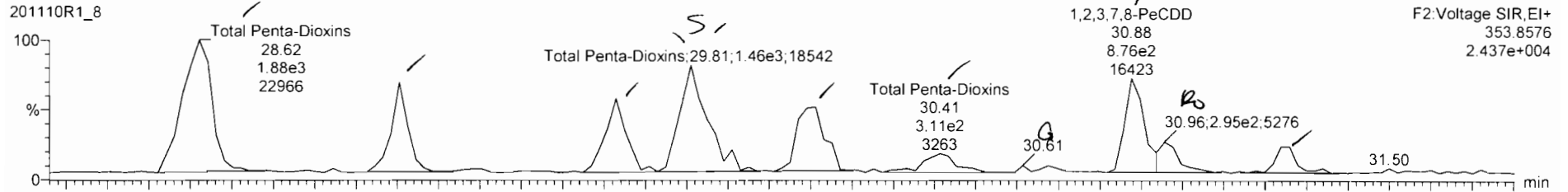


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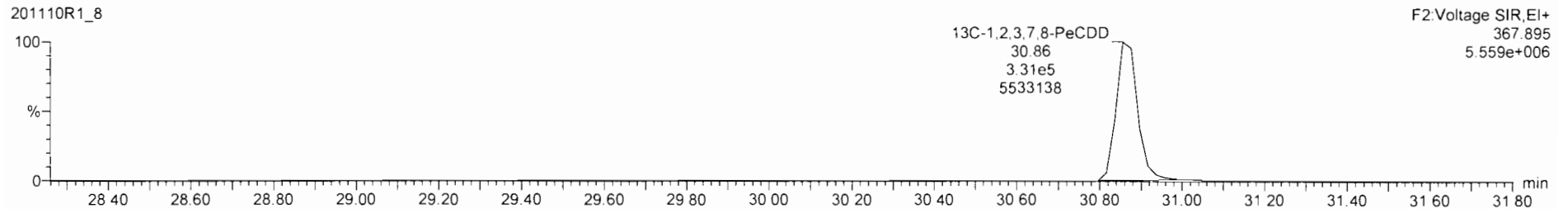
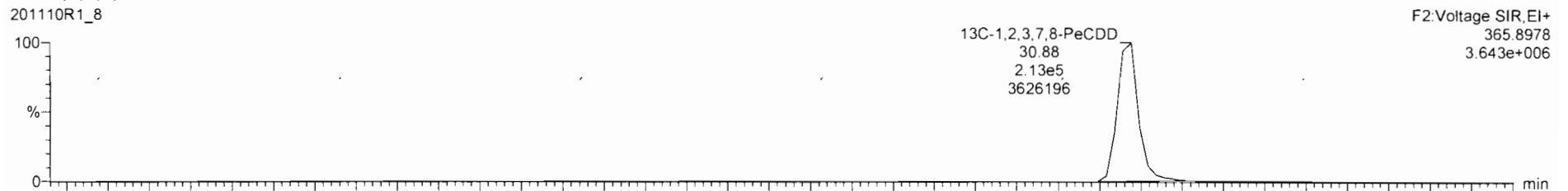
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1,2,3,7,8-PeCDD

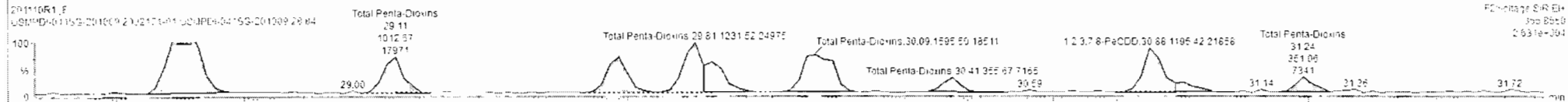
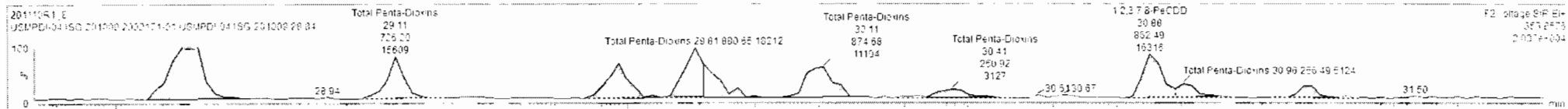


13C-1,2,3,7,8-PeCDD



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
35 Total Tetra-Dioxins				0.9501	10.100			4.18	0.0870	4.48	
40 Total Penta-Dioxins				0.6855	10.100			5.69	0.109	7.32	
41 Total Hexa-Dioxins				0.9145	10.100			41.5	0.353	42.1	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	26.62	1.875e3	2.753e3	0.68	nD	1.9017	1.9017
2 Total Penta-Dioxins	26.11	7.262e2	1.013e3	0.72	nD	0.71444	0.71444
3 Total Penta-Dioxins	29.62	7.493e2	1.041e3	0.72	nD	0.73554	0.73554
4 Total Penta-Dioxins	29.21	8.609e2	1.232e3	0.72	nD	0.86782	0.86782
5 Total Penta-Dioxins	29.83	5.719e2	8.170e2	0.70	nD	0.58568	0.58568
6 Total Penta-Dioxins	30.11	9.747e2	1.595e3	0.55	nD	1.0149	1.0149
7 Total Penta-Dioxins	30.41	2.509e2	3.557e2	0.71	nD	0.24920	0.24920
8 1,2,3,7,8-PeCDD	30.88	8.625e2	1.195e3	0.72	nD	0.84550	0.84550
9 Total Penta-Dioxins	30.96	2.565e2	2.787e2	0.52	YES	0.18663	0.18663
10 Total Penta-Dioxins	31.24	2.154e2	3.611e2	0.62	nD	0.23313	0.23313



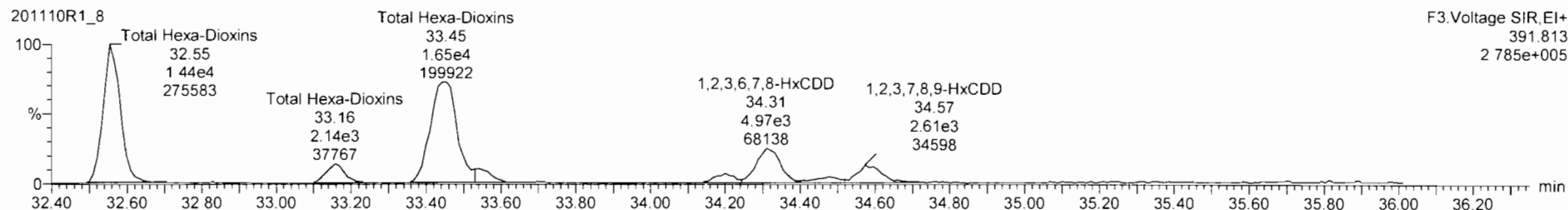
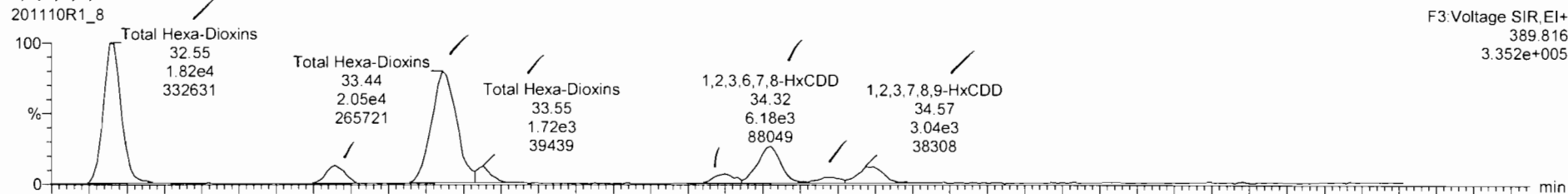
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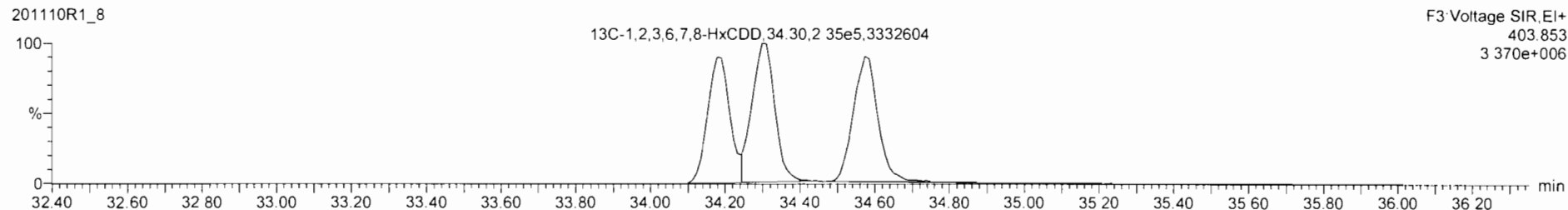
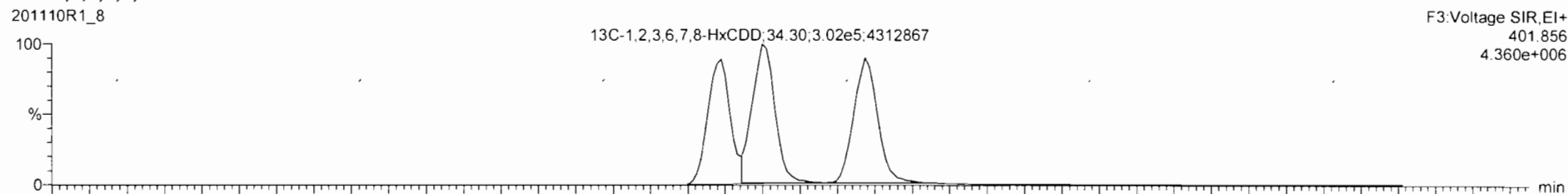
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1,2,3,4,7,8-HxCDD



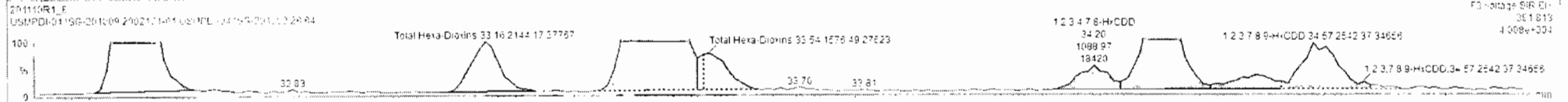
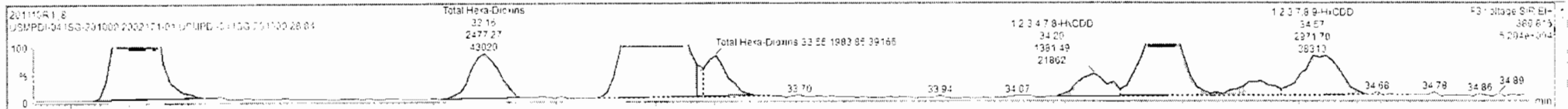
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ID	Name	Resp	SA	n/y	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.100			4.18		0.0870	4.42
40	Total Penta-Dioxins				0.6855	10.100			5.69		0.106	7.32
41	Total Hexa-Dioxins				0.9145	10.100			41.4		0.353	41.4

ID	Name	RT	m1 Resp	n2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	32.56	1.622e4	1.442e4	1.28	NO	13.908	12.608
2	Total Hexa-Dioxins	33.16	2.477e3	2.144e3	1.16	NO	1.9686	1.9686
3	Total Hexa-Dioxins	33.44	2.014e4	1.612e4	1.24	NO	15.495	15.495
4	Total Hexa-Dioxins	33.56	1.954e3	1.576e3	1.26	NO	1.5166	1.5166
5	1,2,3,4,7,8-HxCDD	34.20	1.251e3	1.058e3	1.27	NO	1.0124	1.0124
6	1,2,3,6,7,8-HxCDD	34.32	3.103e3	4.625e3	1.23	NO	4.4632	4.4632
7	Total Hexa-Dioxins	34.48	1.012e3	8.573e2	1.18	NO	0.75538	0.75538
8	1,2,2,7,8,9-HxCDD	34.57	2.912e3	2.642e3	1.17	NO	2.2772	2.2772



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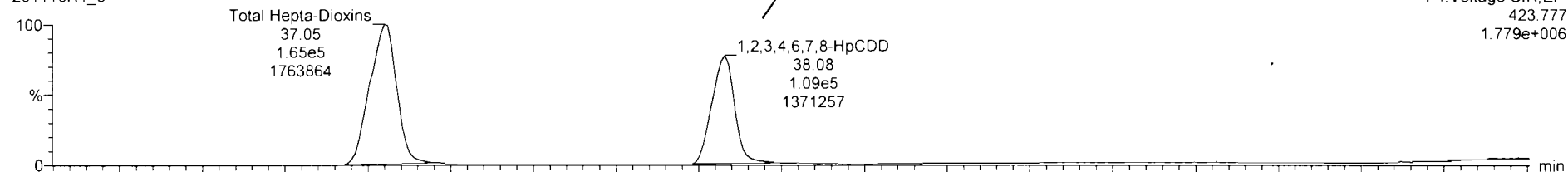
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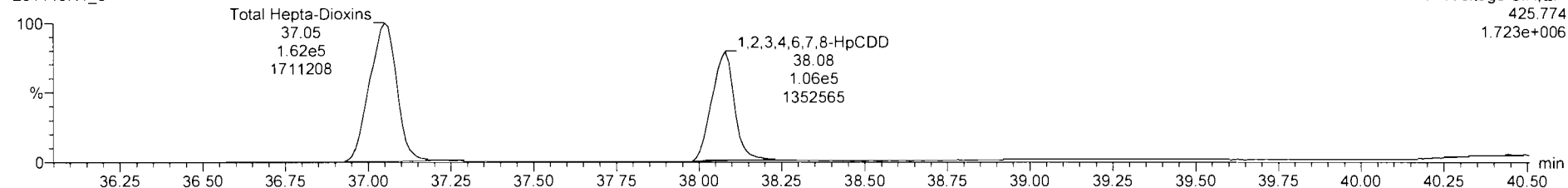
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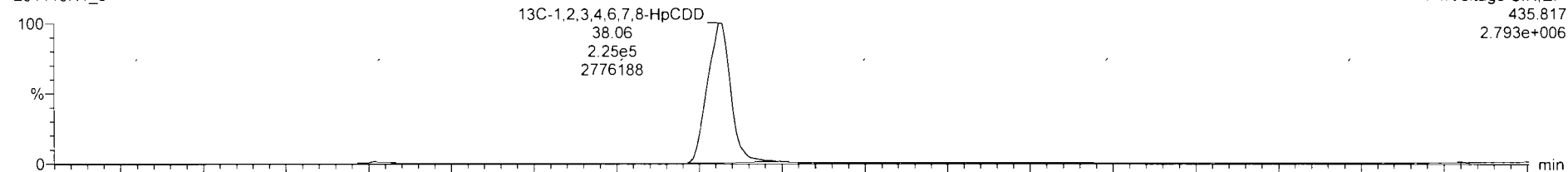


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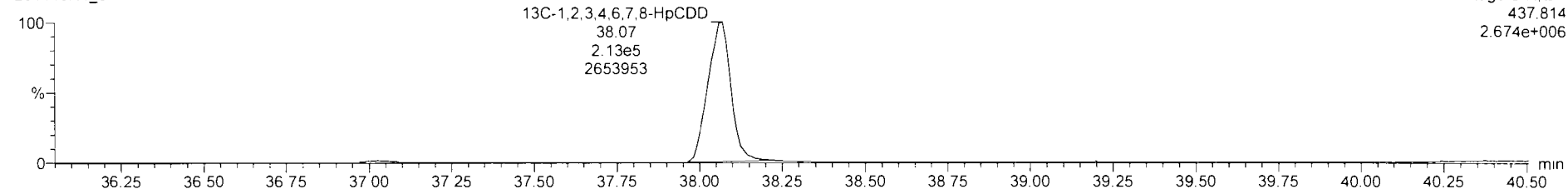


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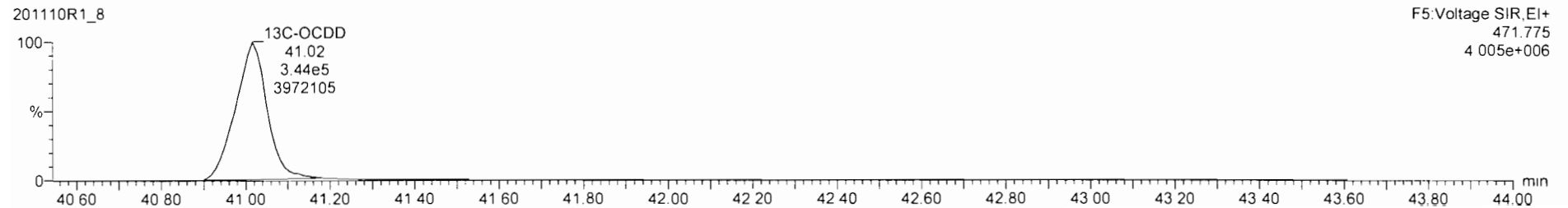
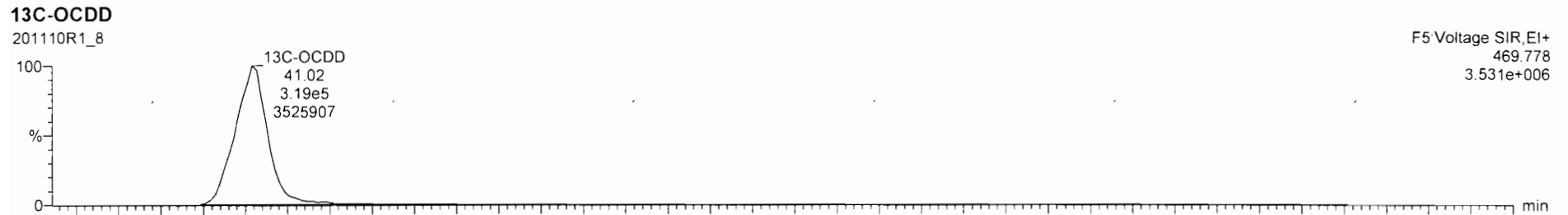
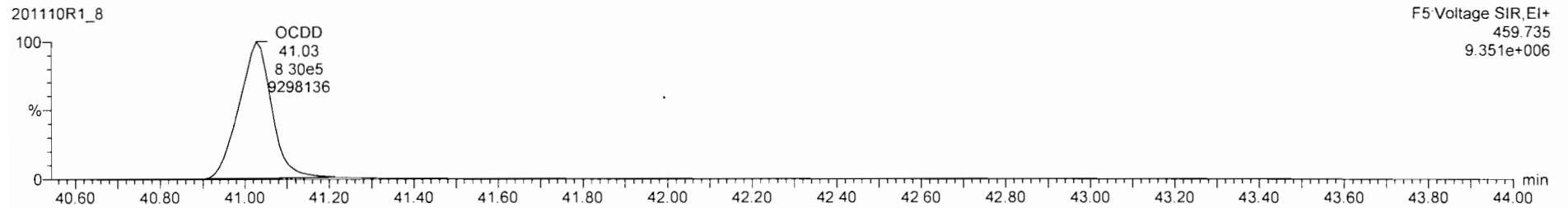
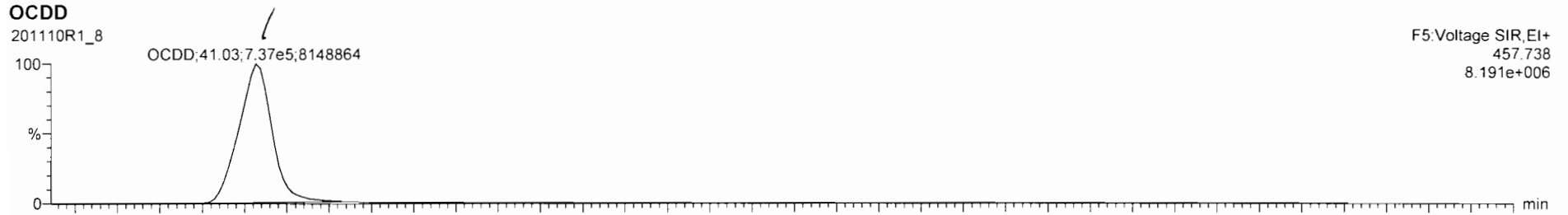
201110R1\_8



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Last Altered: Tuesday, November 10, 2020 2:40:26 PM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 2:40:41 PM Pacific Standard Time

Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

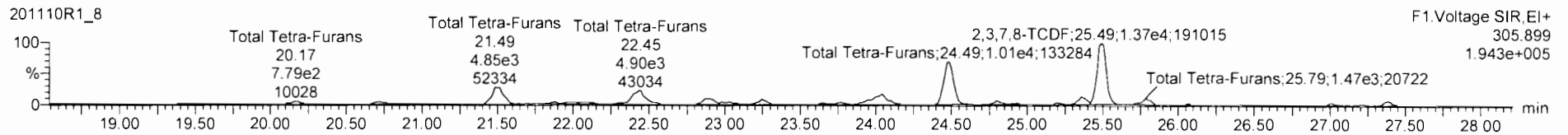
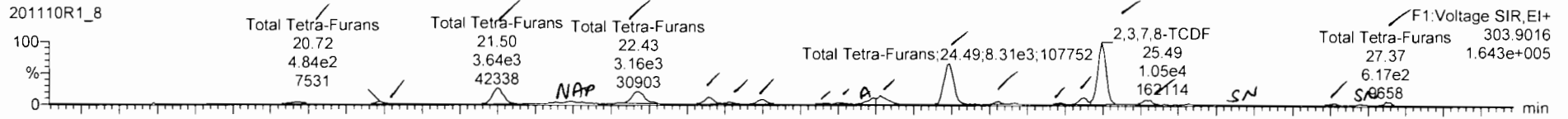


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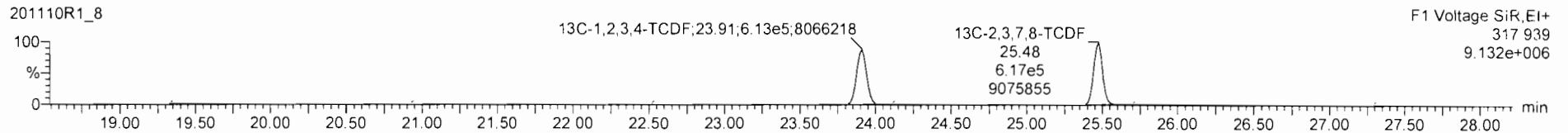
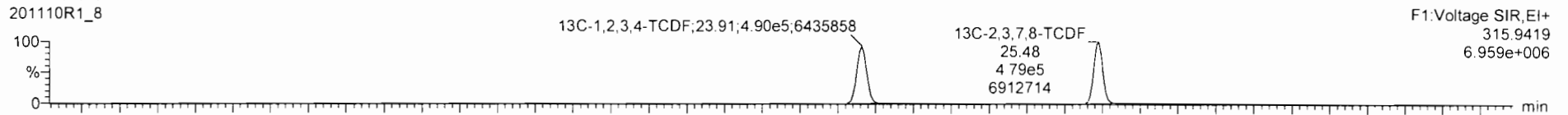
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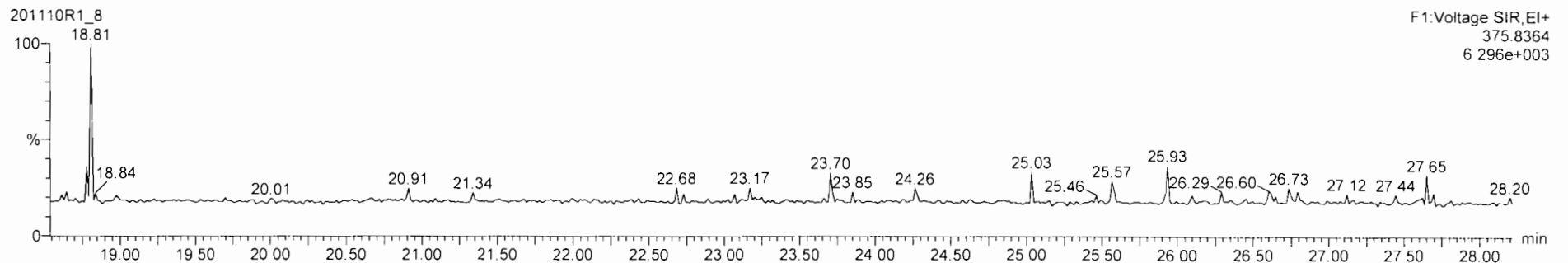
2,3,7,8-TCDF



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



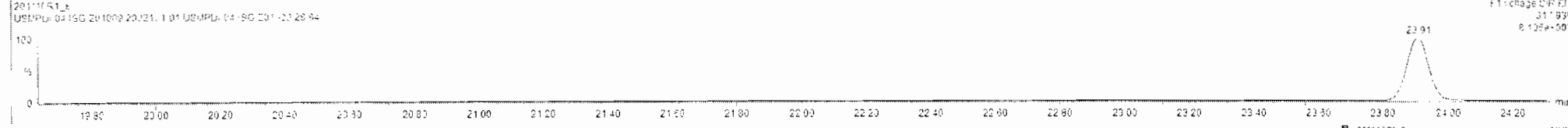
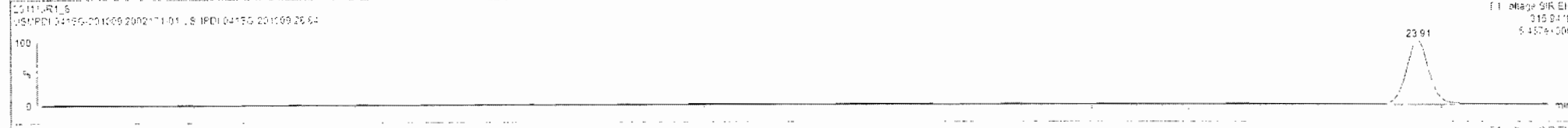
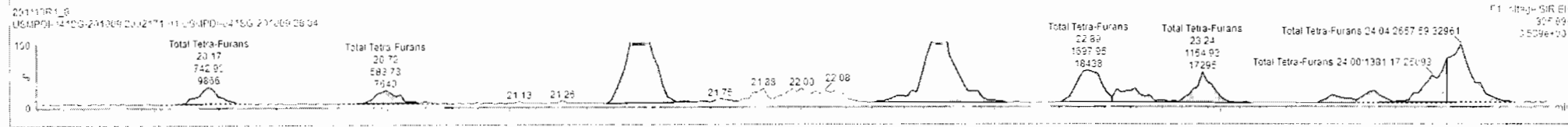
DPE1



201110R1\_8 - 2002171-01 USMPDI-041SG-201009 28.84 - USMPDI-041SG-201009

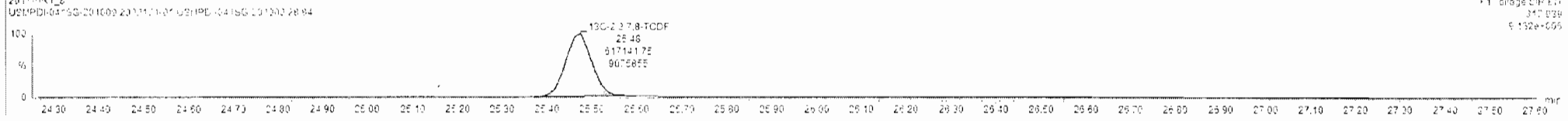
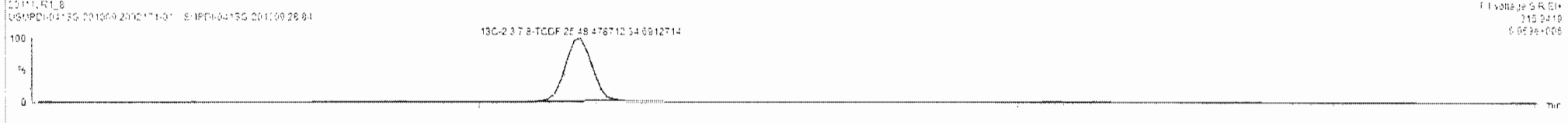
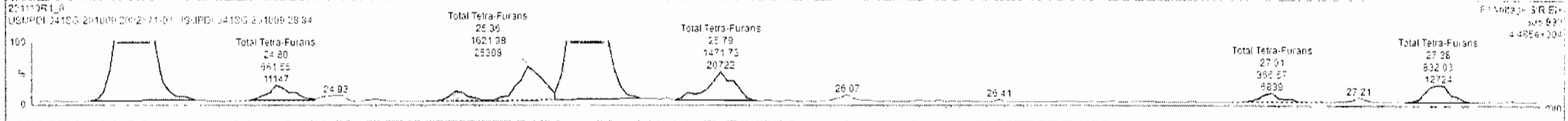
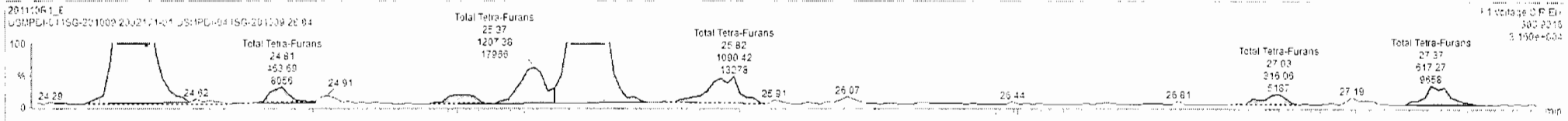
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.100			17.8	0.0950	19.0	
44 1st Func. Penta-Furans				0.9628	10.100			4.65	0.0256	4.65	
45 Total Penta-Furans				0.9628	10.100			26.4	0.128	26.0	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.18	5.859e2	7.429e2	0.79	NO	0.29127	0.29127
2 Total Tetra-Furans	20.72	4.844e2	5.637e2	0.87	NO	0.23415	0.23415
3 Total Tetra-Furans	21.56	3.678e2	4.847e2	0.75	NO	1.8601	1.8601
4 Total Tetra-Furans	22.43	3.752e2	4.696e2	0.77	NO	1.2969	1.2969
5 Total Tetra-Furans	22.89	1.315e2	1.695e2	0.77	NO	0.66050	0.66050
6 Total Tetra-Furans	23.52	5.422e2	8.209e2	0.66	NO	0.29920	0.29920
7 Total Tetra-Furans	23.74	1.027e2	1.155e2	0.89	NO	0.47736	0.47736
8 Total Tetra-Furans	23.86	2.410e2	3.497e2	0.69	NO	0.12949	0.12949
9 Total Tetra-Furans	23.75	4.232e2	4.856e2	0.87	NO	0.15922	0.15922
10 Total Tetra-Furans	23.96	1.107e2	1.321e2	0.80	NO	0.54478	0.54478
11 Total Tetra-Furans	24.03	1.859e2	2.658e2	0.71	NO	0.99668	0.99668



Name	Resp	RA	n/y	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.100			18.0	0.0950	19.0	
44 1st Func. Penta-Furans				0.9626	10.100			4.65	0.0259	4.65	
45 Total Penta-Furans				0.9626	10.100			25.4	0.128	26.0	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
9 Total Tetra-Furans	22.75	4.232e2	4.856e2	0.87	NO	0.19922	0.19922
10 Total Tetra-Furans	22.96	1.104e3	1.381e3	0.80	NO	0.54478	0.54478
11 Total Tetra-Furans	24.03	1.859e3	2.656e3	0.71	NO	0.93608	0.00000
12 Total Tetra-Furans	24.49	8.151e3	1.007e4	0.80	NO	3.9639	3.9639
13 Total Tetra-Furans	24.81	4.837e2	6.415e2	0.70	NO	0.24867	0.24867
14 Total Tetra-Furans	25.21	3.513e2	4.514e2	0.78	NO	0.17596	0.17596
15 Total Tetra-Furans	25.27	1.207e2	1.602e2	0.74	NO	0.62024	0.62024
16 2,3,7,8-TCDF	25.46	1.054e4	1.371e4	0.77	NO	5.2153	5.2153
17 Total Tetra-Furans	25.82	1.080e3	1.472e3	0.74	NO	0.58166	0.58166
18 Total Tetra-Furans	27.03	3.161e2	3.888e2	0.36	NO	0.14984	0.14984
19 Total Tetra-Furans	27.37	8.173e2	8.320e2	0.74	NO	0.31771	0.31771



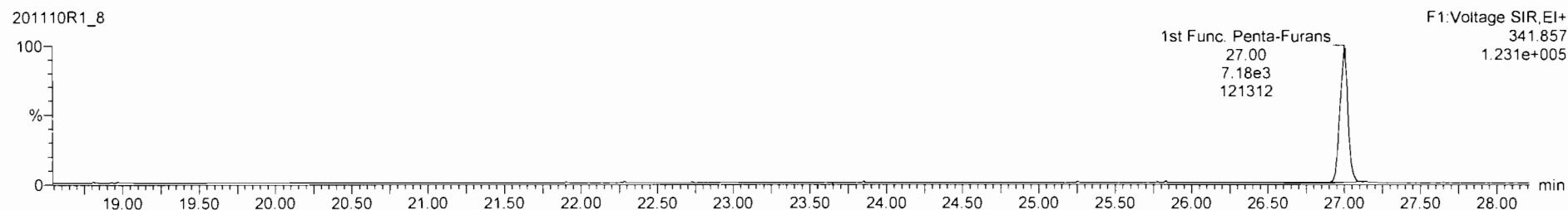
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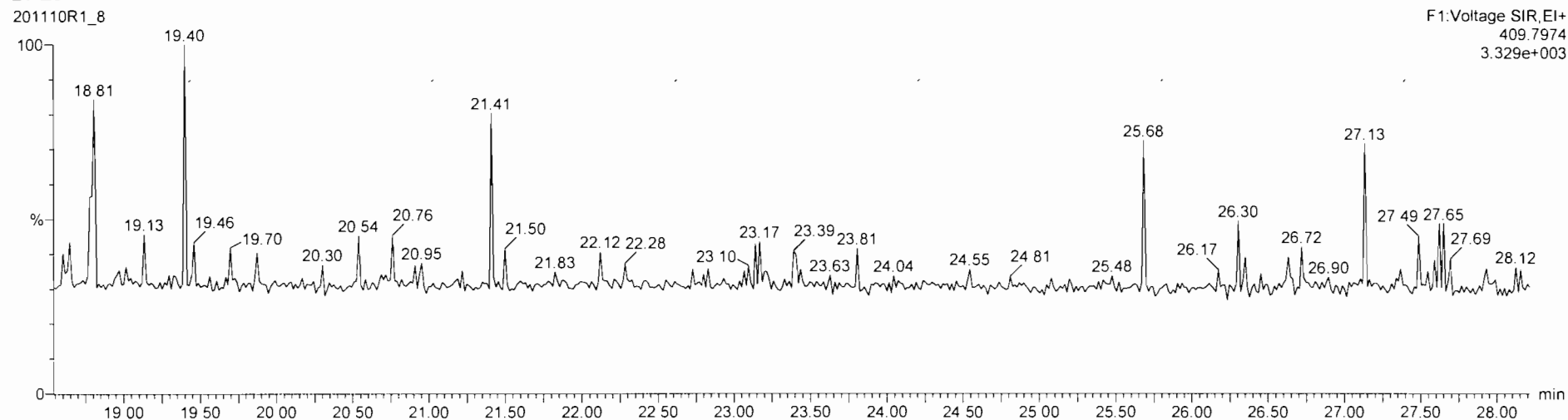
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Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

1st Func. Penta-Furans



DPE6

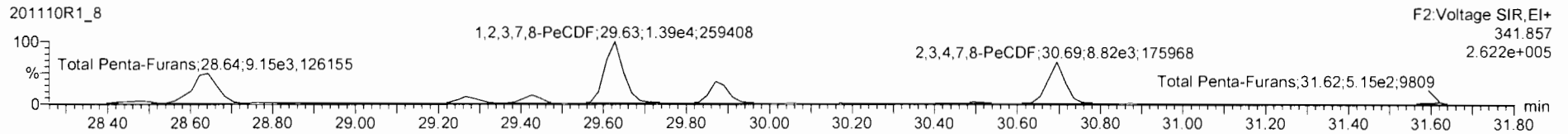
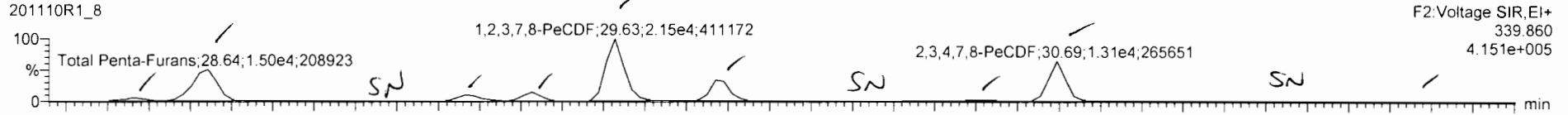


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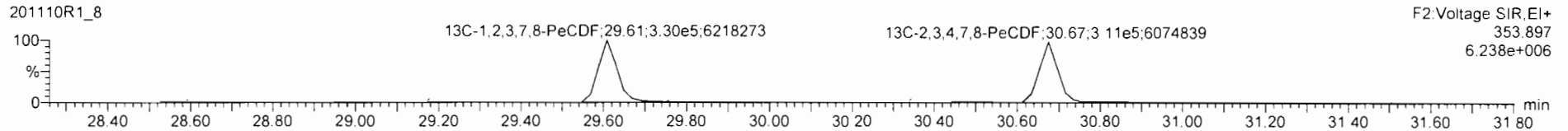
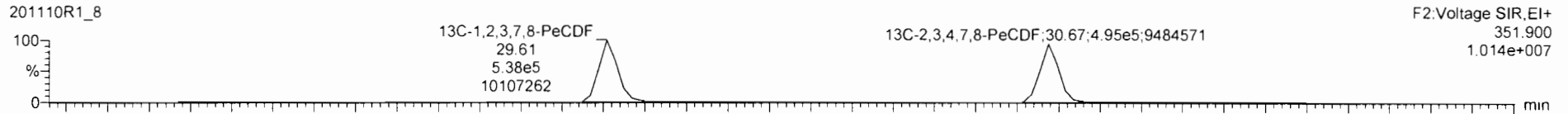
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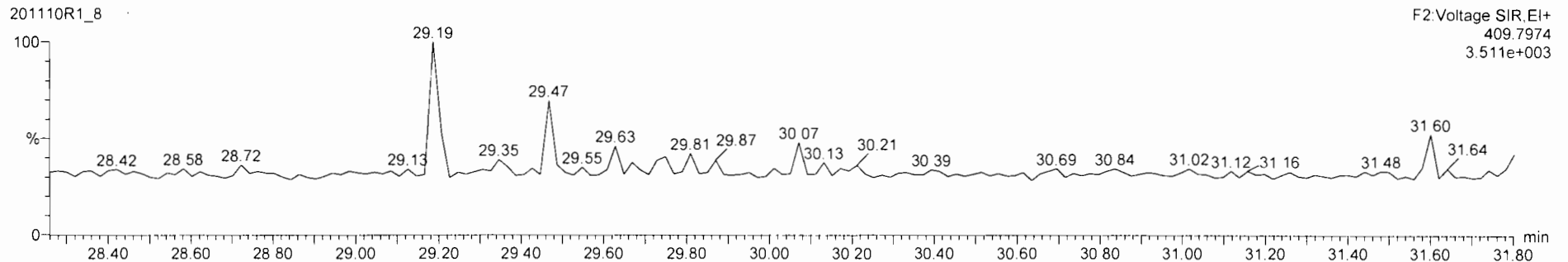
**1,2,3,7,8-PeCDF**



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



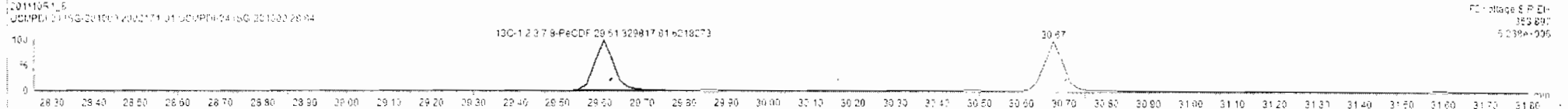
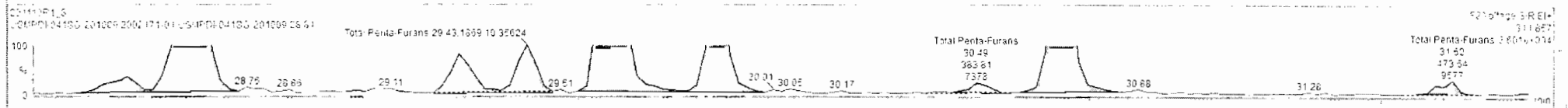
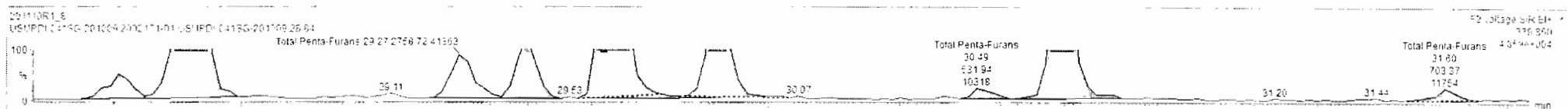
**DPE2**





Name	Resp	RA	n/y	RF	w/w	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8242	10.100			18.0	0.0950	19.0	
44 1st Func. Penta-Furans				0.9628	10.100			4.65	0.0258	4.85	
45 Total Penta-Furans				0.9626	10.100			26.1	0.128	26.1	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	26.46	1.598e3	8.970e2	1.76	NO	0.61319	0.61319
2 Total Penta-Furans	26.64	1.497e4	6.149e2	1.64	NO	5.5238	5.5238
3 Total Penta-Furans	29.27	2.759e3	1.791e2	1.54	NO	1.1182	1.1182
4 Total Penta-Furans	29.43	3.214e3	1.669e2	1.72	NO	1.2462	1.2462
5 1,2,3,7,8-PeCDF	29.63	2.202e4	1.391e4	1.58	NO	8.5212	8.5212
6 Total Penta-Furans	29.87	7.773e2	4.684e2	1.59	NO	2.1108	2.1108
7 Total Penta-Furans	30.49	5.219e2	3.839e2	1.39	NO	0.22607	0.22607
8 2,1,2',7,8-PeCDF	30.69	1.207e4	8.818e2	1.48	NO	5.5295	5.5295
9 Total Penta-Furans	31.60	7.034e2	4.736e2	1.49	NO	0.28929	0.28929



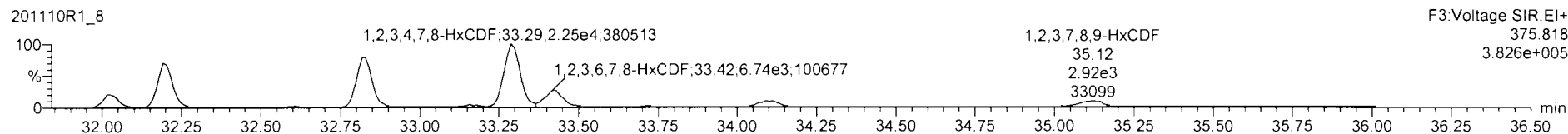
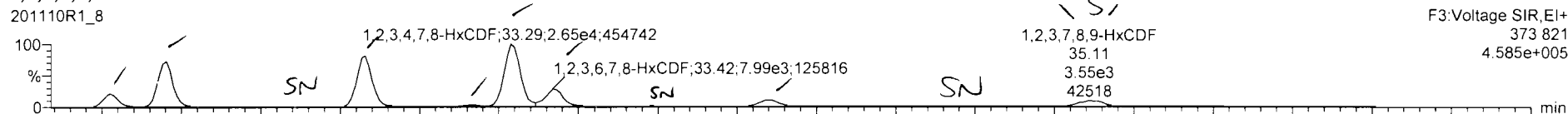
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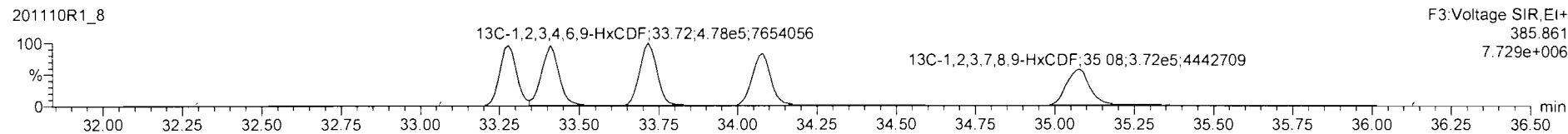
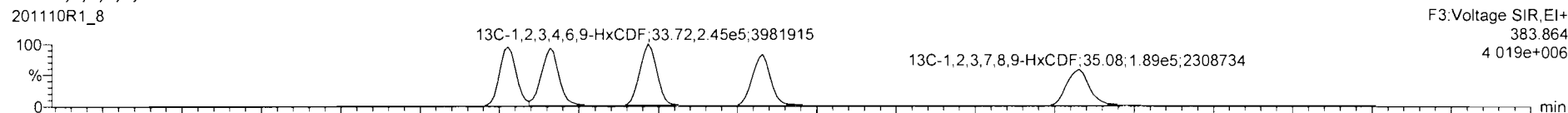
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Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

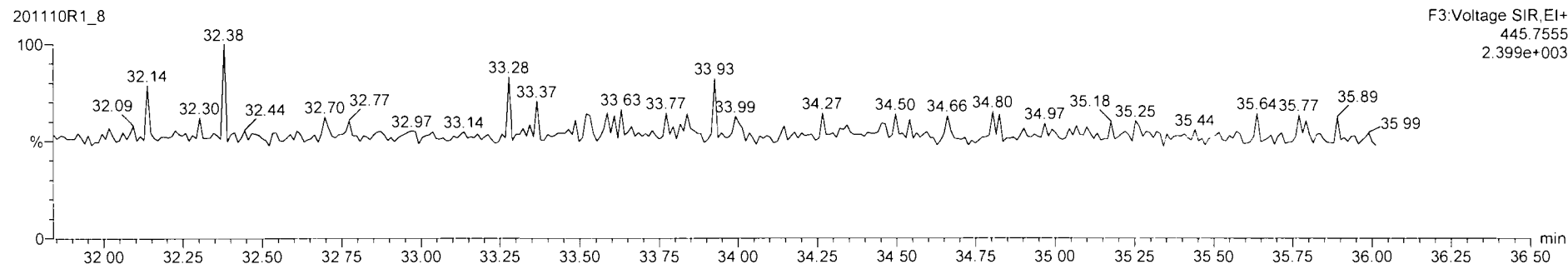
**1,2,3,4,7,8-HxCDF**



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

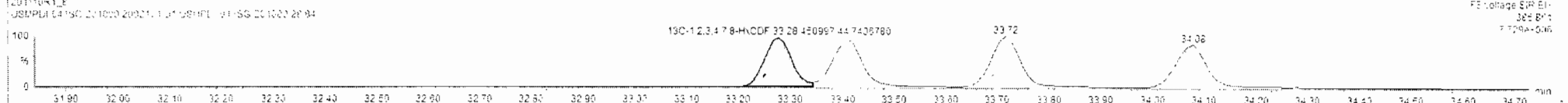
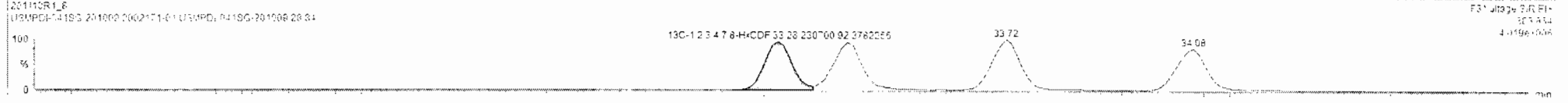
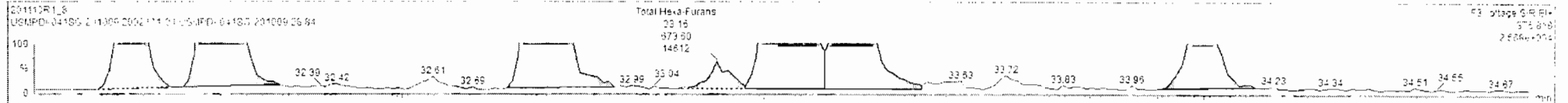
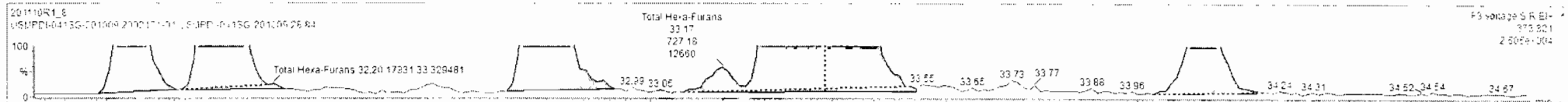


**DPE3**



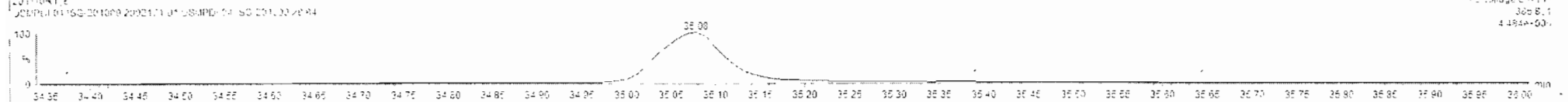
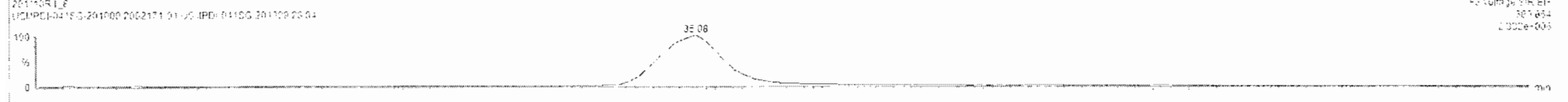
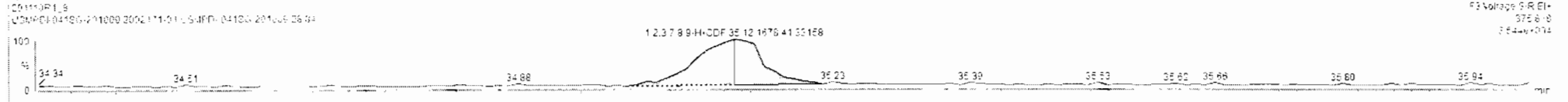
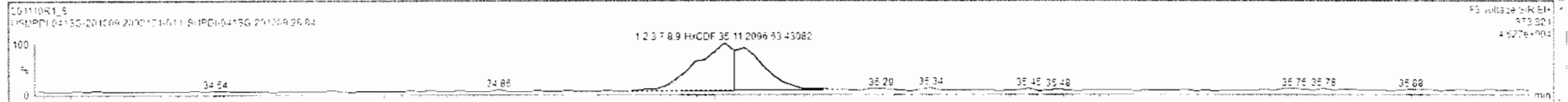
Name	Resp	RA	n/y	RRF	wt/vol	RT	RAY	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.100			10.0		0.0550	19.0
44 1st Func. Penta-Furans				0.9626	10.100			4.65		0.0259	4.65
45 Total Penta-Furans				0.9626	10.100			26.1		0.128	26.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.03	6.215e3	4.427e3	1.16	NO	2.9690	2.9890
2 Total Hexa-Furans	32.20	1.793e4	1.444e4	1.24	NO	10.032	10.032
3 Total Hexa-Furans	32.83	2.086e4	1.744e4	1.20	NO	11.669	11.669
4 Total Hexa-Furans	33.17	7.272e2	6.738e2	1.06	NO	0.43408	0.43408
1,2,3,4,7,8-HxCDF	33.29	2.666e4	2.247e4	1.19	NO	14.967	14.967
1,2,3,6,7,8-HxCDF	33.52	8.351e3	6.735e3	1.24	NO	4.2625	4.2625
2,3,4,6,7,8-HxCDF	34.39	7.400e2	2.567e2	1.31	NO	1.8649	1.8649
1,2,3,7,8-HxCDF	35.11	7.553e3	2.921e3	1.22	NO	2.4023	2.4023



#	Name	Resp	RA	n/y	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8242	10.100			18.0	0.0590	19.0	
44	1st Func. Penta-Furans				0.9928	10.100			4.65	0.0259	4.65	
45	Total Penta-Furans				0.9625	10.100			26.1	0.128	26.1	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	32.03	5.219e3	4.427e3	1.18	N/D	2.9890	2.9890
2	Total Hexa-Furans	32.20	1.793e4	1.444e4	1.24	N/D	10.032	10.032
3	Total Hexa-Furans	32.83	2.050e4	1.744e4	1.20	N/D	11.869	11.869
4	Total Hexa-Furans	33.17	7.212e3	6.736e3	1.08	N/D	0.42408	0.42408
5	1,2,3,4,7,8-HxCDF	33.29	2.682e4	2.247e4	1.19	N/D	14.967	14.967
6	1,2,3,6,7,8-HxCDF	33.42	8.351e3	6.736e3	1.24	N/D	4.2625	4.2625
7	2,3,4,6,7,8-HxCDF	34.09	3.402e3	2.597e3	1.31	N/D	1.8649	1.8649
8	1,2,3,7,8,9-HxCDF	35.11	2.057e3	1.678e3	1.25	N/D	1.4009	1.4009
9	Total Hexa-Furans	35.13	1.499e2	1.254e2	1.20	N/D	0.87024	0.87024

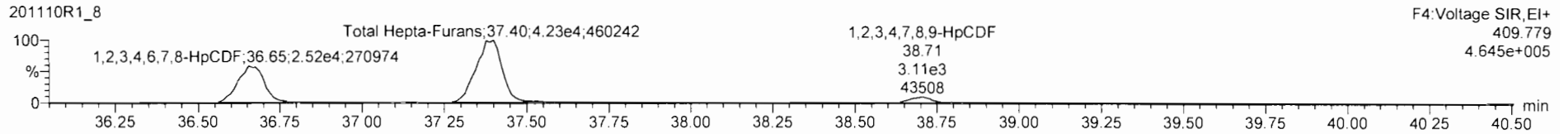
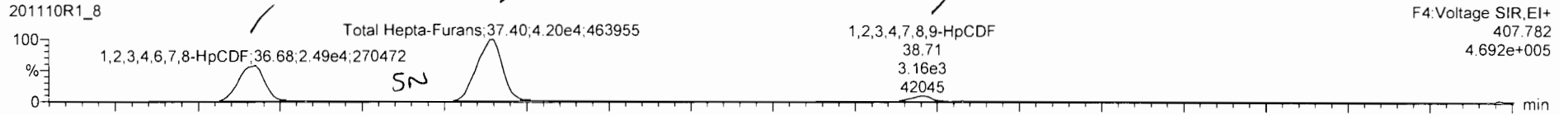


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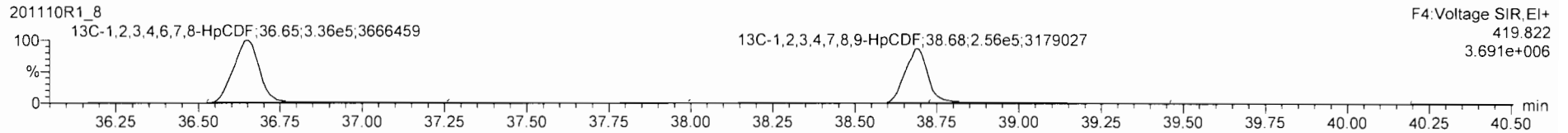
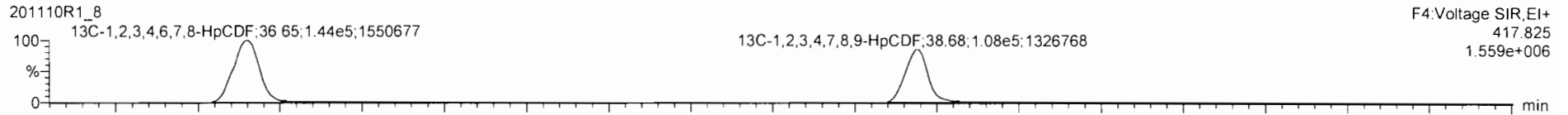
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Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

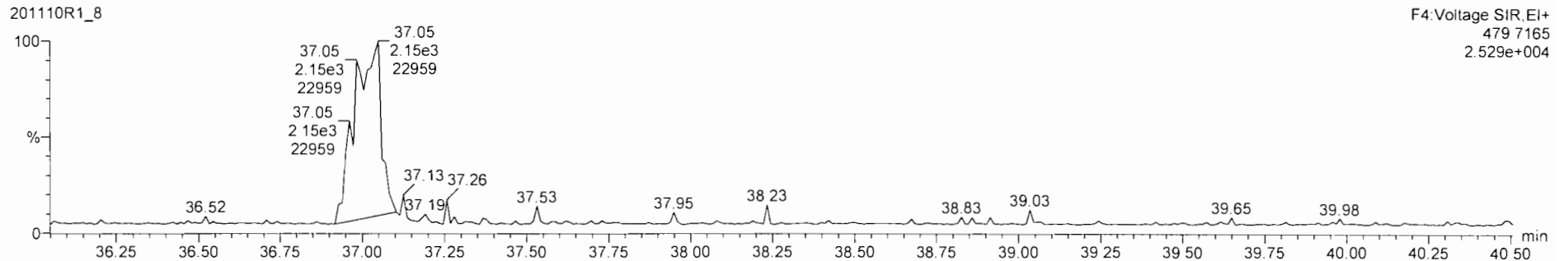
**1,2,3,4,6,7,8-HpCDF**



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

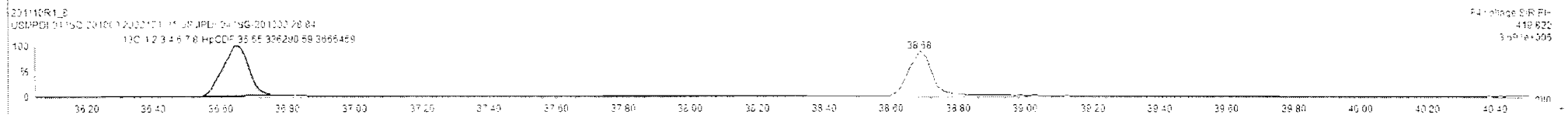
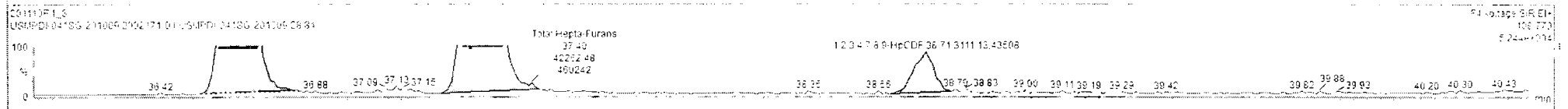
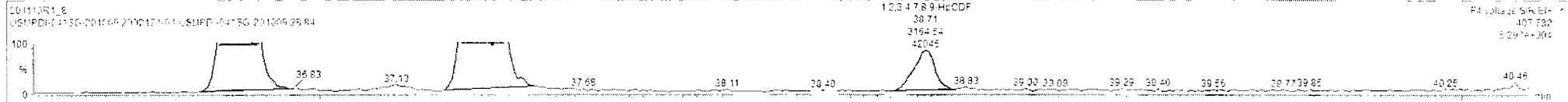


**DPE4**



Name	Resp	RA	n/y	RRF	wt/dl	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				0.9986	10.100			63.2		0.379	63.2
48 PFK1											
49 PFK2											

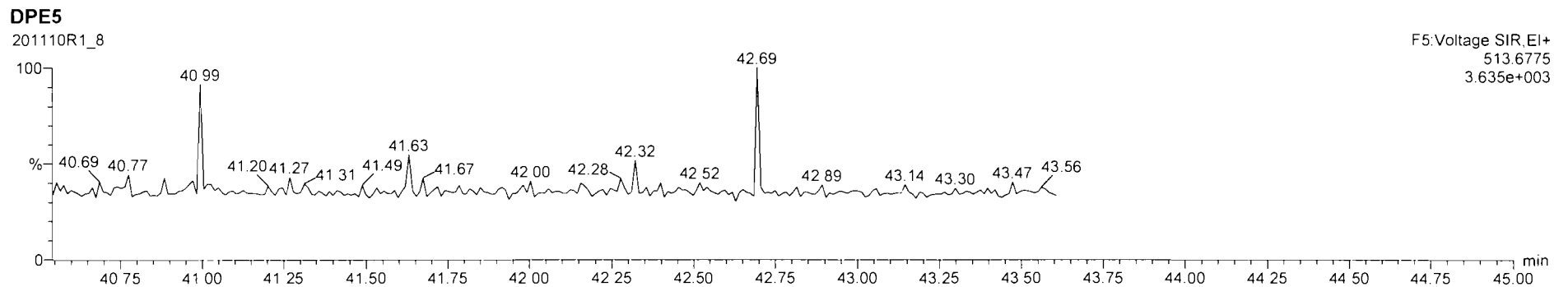
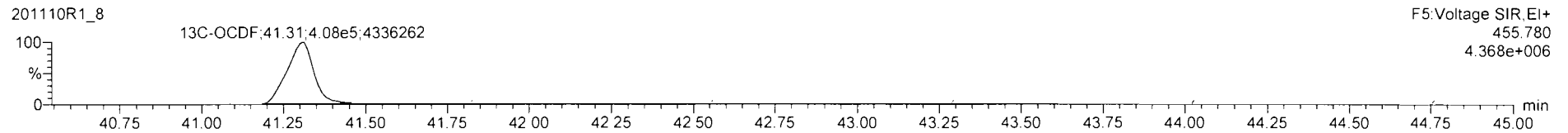
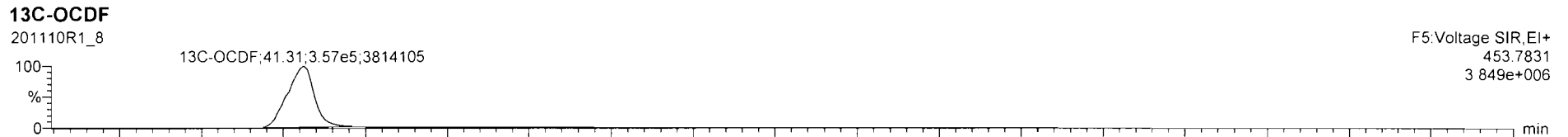
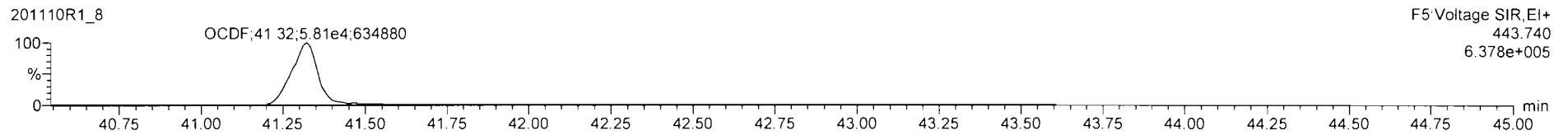
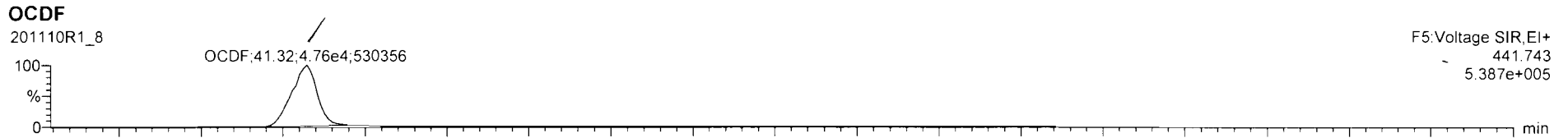
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.67	2.458e4	2.502e4	0.99	NO	20.588	20.588
2 Total Hepta-Furans	37.40	4.202e4	4.226e4	0.99	NO	36.676	36.676
3 1,2,3,4,7,8-HpCDF	38.71	2.165e3	3.111e3	1.02	NO	2.0384	2.0384



Dataset: Untitled

Last Altered: Tuesday, November 10, 2020 2:40:26 PM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 2:40:41 PM Pacific Standard Time

Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009

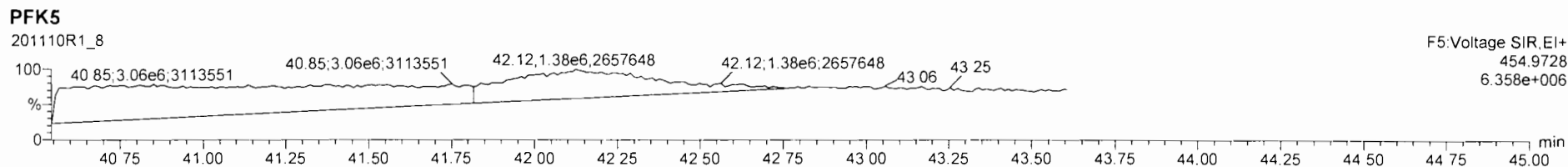
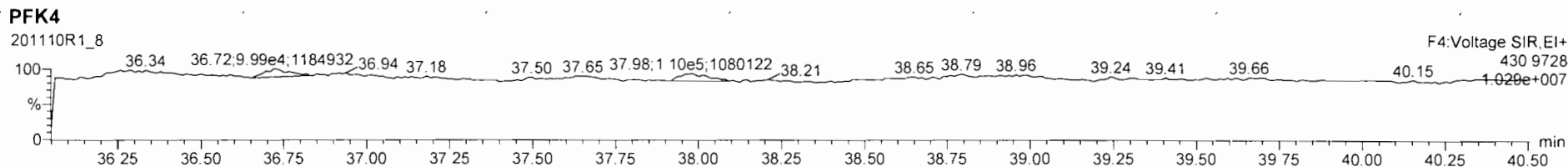
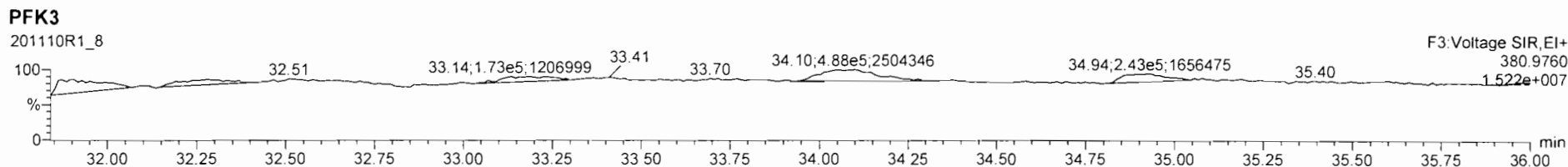
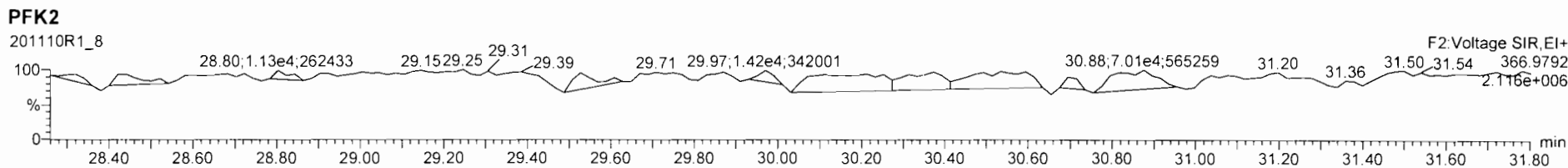
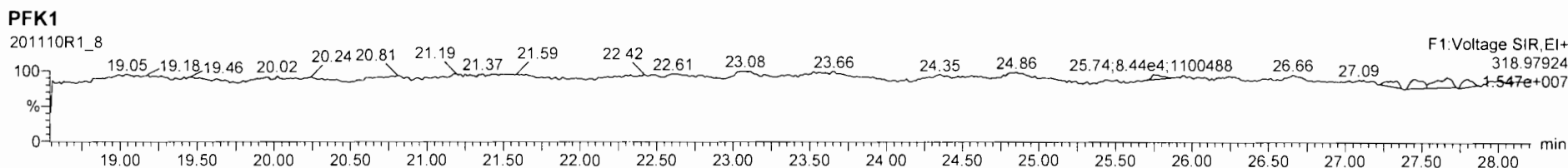


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Last Altered: Tuesday, November 10, 2020 2:40:26 PM Pacific Standard Time

Printed: Tuesday, November 10, 2020 2:40:41 PM Pacific Standard Time

Name: 201110R1\_8, Date: 10-Nov-2020, Time: 13:44:38, ID: 2002171-01 USMPDI-041SG-201009 28.84, Description: USMPDI-041SG-201009





Dataset: U:\VG12.PRO\Results\201109R1\201109R1-12.qld

Last Altered: Tuesday, November 10, 2020 12:32:20 Pacific Standard Time  
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*GRB 11/6/2020*

*CT 11/12/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50  
Calibration: U:\VG12.PRO\CurveDB\1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201109R1\_12, Date: 09-Nov-2020, Time: 16:20:05, ID: 2002171-02 USMPDI-042SG-201009 27.07, Description: USMPDI-042SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	8.14e2	0.24	YES	0.950	10.084	26.171	26.17	1.001	1.001	0.14800		0.0430	0.0674
2	2 1,2,3,7,8-PeCDD	6.04e2	0.66	NO	0.885	10.084	30.865	30.88	1.000	1.001	0.14800		0.0510	0.148
3	3 1,2,3,4,7,8-HxCDD	6.87e2	1.27	NO	1.02	10.084	34.207	34.20	1.001	1.001	0.18355		0.153	0.184
4	4 1,2,3,6,7,8-HxCDD	2.86e3	1.24	NO	0.915	10.084	34.300	34.32	1.000	1.001	0.73855		0.147	0.739
5	5 1,2,3,7,8,9-HxCDD	1.44e3	1.24	NO	0.934	10.084	34.574	34.56	1.000	1.000	0.38010		0.165	0.380
6	6 1,2,3,4,6,7,8-HpCDD	4.95e4	1.03	NO	0.870	10.084	38.060	38.08	1.000	1.001	17.864		0.524	17.9
7	7 OCDD	3.47e5	0.89	NO	0.872	10.084	41.029	41.04	1.000	1.000	164.82		0.623	165
8	8 2,3,7,8-TCDF	6.14e3	0.76	NO	0.824	10.084	25.470	25.48	1.000	1.001	0.94802		0.0487	0.948
9	9 1,2,3,7,8-PeCDF	6.37e3	1.58	NO	0.963	10.084	29.617	29.61	1.000	1.000	1.0111		0.0460	1.01
10	10 2,3,4,7,8-PeCDF	4.64e3	1.49	NO	1.07	10.084	30.675	30.67	1.000	1.000	0.65467		0.0402	0.655
11	11 1,2,3,4,7,8-HxCDF	5.82e3	1.29	NO	0.953	10.084	33.269	33.29	1.000	1.001	1.2960		0.0722	1.30
12	12 1,2,3,6,7,8-HxCDF	1.73e3	1.10	NO	1.01	10.084	33.401	33.41	1.000	1.000	0.35436		0.0707	0.354
13	13 2,3,4,6,7,8-HxCDF	1.16e3	1.16	NO	0.991	10.084	34.073	34.09	1.000	1.001	0.25844		0.0809	0.258
14	14 1,2,3,7,8,9-HxCDF	6.25e2	1.10	NO	0.951	10.084	35.069	35.10	1.000	1.001	0.16363		0.114	0.164
15	15 1,2,3,4,6,7,8-HpCDF	9.39e3	1.04	NO	0.999	10.084	36.648	36.67	1.000	1.001	2.8539		0.134	2.85
16	16 1,2,3,4,7,8,9-HpCDF	1.01e3	1.12	NO	1.12	10.084	38.696	38.69	1.000	1.000	0.36197		0.136	0.362
17	17 OCDF	1.76e4	0.88	NO	0.868	10.084	41.322	41.34	1.000	1.001	7.6900		0.126	7.69
18	18 13C-2,3,7,8-TCDD	1.14e6	0.79	NO	1.11	10.084	26.132	26.14	1.029	1.030	202.28	102	0.197	
19	19 13C-1,2,3,7,8-PeCDD	9.14e5	0.64	NO	0.859	10.084	30.745	30.86	1.211	1.215	209.48	106	0.213	
20	20 13C-1,2,3,4,7,8-HxCDD	7.30e5	1.30	NO	0.700	10.084	34.156	34.18	1.013	1.014	204.25	103	0.444	
21	21 13C-1,2,3,6,7,8-HxCDD	8.39e5	1.26	NO	0.833	10.084	34.284	34.29	1.017	1.017	197.32	99.5	0.373	
22	22 13C-1,2,3,7,8,9-HxCDD	8.02e5	1.25	NO	0.762	10.084	34.554	34.56	1.025	1.025	206.25	104	0.408	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.32e5	1.05	NO	0.650	10.084	37.989	38.06	1.127	1.129	190.54	96.1	0.848	
24	24 13C-OCDD	9.58e5	0.90	NO	0.539	10.084	40.918	41.03	1.214	1.217	347.97	87.7	0.597	
25	25 13C-2,3,7,8-TCDF	1.56e6	0.77	NO	0.981	10.084	25.467	25.46	1.003	1.003	201.82	102	0.196	
26	26 13C-1,2,3,7,8-PeCDF	1.30e6	1.59	NO	0.792	10.084	29.506	29.61	1.162	1.166	208.38	105	0.748	
27	27 13C-2,3,4,7,8-PeCDF	1.31e6	1.59	NO	0.778	10.084	30.557	30.67	1.204	1.208	214.99	108	0.761	
28	28 13C-1,2,3,4,7,8-HxCDF	9.34e5	0.51	NO	0.954	10.084	33.260	33.27	0.987	0.987	191.74	96.7	0.550	
29	29 13C-1,2,3,6,7,8-HxCDF	9.59e5	0.51	NO	1.01	10.084	33.398	33.40	0.991	0.991	186.73	94.1	0.521	
30	30 13C-2,3,4,6,7,8-HxCDF	8.99e5	0.50	NO	0.921	10.084	34.055	34.07	1.010	1.011	191.14	96.4	0.569	
31	31 13C-1,2,3,7,8,9-HxCDF	7.97e5	0.51	NO	0.803	10.084	35.053	35.07	1.040	1.040	194.44	98.0	0.652	

Dataset: U:\VG12.PRO\Results\201109R1\201109R1-12.qld

Last Altered: Tuesday, November 10, 2020 12:32:20 Pacific Standard Time

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Name: 201109R1\_12, Date: 09-Nov-2020, Time: 16:20:05, ID: 2002171-02 USMPDI-042SG-201009 27.07, Description: USMPDI-042SG-201009

#	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	6.54e5	0.44	NO	0.735	10.084	36.617	36.64	1.086	1.087	174.12	87.8	0.630	
33	13C-1,2,3,4,7,8,9-HpCDF	4.94e5	0.42	NO	0.568	10.084	38.599	38.70	1.145	1.148	170.36	85.9	0.816	
34	13C-OCDF	1.04e6	0.87	NO	0.629	10.084	41.208	41.31	1.222	1.226	325.14	82.0	0.400	
35	37Cl-2,3,7,8-TCDD	5.03e5			1.09	10.084	26.150	26.17	1.030	1.031	90.933	115	0.0738	
36	13C-1,2,3,4-TCDD	1.01e6	0.81	NO	1.00	10.084	25.430	25.39	1.000	1.000	198.34	100	0.219	
37	13C-1,2,3,4-TCDF	1.56e6	0.78	NO	1.00	10.084	24.130	23.90	1.000	1.000	198.34	100	0.193	
38	13C-1,2,3,4,6,9-HxCDF	1.01e6	0.51	NO	1.00	10.084	33.840	33.71	1.000	1.000	198.34	100	0.524	
39	Total Tetra-Dioxins				0.950	10.084	24.620		0.000		0.55673		0.0430	0.624
40	Total Penta-Dioxins				0.885	10.084	29.960		0.000		0.66191		0.0510	1.02
41	Total Hexa-Dioxins				0.915	10.084	33.635		0.000		7.0381		0.161	7.04
42	Total Hepta-Dioxins				0.870	10.084	37.640		0.000		54.810		0.524	54.8
43	Total Tetra-Furans				0.824	10.084	23.610		0.000		2.9958		0.0487	3.08
44	1st Func Penta-Furans				0.963	10.084	27.230		0.000		0.87429		0.0153	0.874
45	Total Penta-Furans				0.963	10.084	29.275		0.000		3.3032		0.0453	3.30
46	Total Hexa-Furans				0.991	10.084	33.555		0.000		6.3143		0.0818	6.31
47	Total Hepta-Furans				0.999	10.084	37.835		0.000		9.2180		0.142	9.22

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Dataset: U:\VG12.PRO\Results\201109R1\201109R1-12.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201109R1\_12, Date: 09-Nov-2020, Time: 16:20:05, ID: 2002171-02 USMPDI-042SG-201009 27.07, Description: USMPDI-042SG-201009

**Tetra-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Dioxins	22.37	5.318e3	5.668e3	3.763e2	4.476e2	0.84	NO	8.240e2	0.15086	0.15086	0.0430
2 Total Tetra-Dioxins	22.74	1.984e3	3.371e3	1.690e2	2.458e2	0.69	NO	4.148e2	0.075946	0.075946	0.0430
3 Total Tetra-Dioxins	25.89	1.088e4	1.371e4	7.953e2	1.007e3	0.79	NO	1.802e3	0.32993	0.32993	0.0430
4 2,3,7,8-TCDD	26.17	2.488e3	9.674e3	1.600e2	6.535e2	0.24	YES	8.135e2	0.00000	0.067354	0.0430

**Penta-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Dioxins	28.58	5.193e3	1.036e4	4.459e2	6.854e2	0.65	NO	1.131e3	0.27717	0.27717	0.0510
2 Total Penta-Dioxins	29.08	3.481e3	5.804e3	1.383e2	2.754e2	0.50	YES	0.000e0	0.00000	0.087636	0.0510
3 Total Penta-Dioxins	29.61	6.550e3	4.956e3	4.075e2	2.909e2	1.40	YES	0.000e0	0.00000	0.11618	0.0510
4 Total Penta-Dioxins	29.79	4.280e3	6.811e3	3.981e2	5.681e2	0.70	NO	9.663e2	0.23674	0.23674	0.0510
5 Total Penta-Dioxins	30.09	4.974e3	5.083e3	3.553e2	3.897e2	0.91	YES	0.000e0	0.00000	0.15564	0.0510
6 1,2,3,7,8-PeCDD	30.88	4.030e3	5.774e3	2.406e2	3.635e2	0.66	NO	6.041e2	0.14800	0.14800	0.0510

**Hexa-Dioxins**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	32.56	8.480e4	6.928e4	4.940e3	4.129e3	1.20	NO	9.069e3	2.4889	2.4889	0.161
2 Total Hexa-Dioxins	33.16	1.093e4	1.098e4	6.951e2	6.038e2	1.15	NO	1.299e3	0.35647	0.35647	0.161
3 Total Hexa-Dioxins	33.44	6.599e4	5.731e4	4.944e3	4.085e3	1.21	NO	9.029e3	2.4779	2.4779	0.161
4 Total Hexa-Dioxins	33.56	1.473e4	1.056e4	8.578e2	6.454e2	1.33	NO	1.503e3	0.41252	0.41252	0.161
5 1,2,3,4,7,8-HxCDD	34.20	7.414e3	4.837e3	3.849e2	3.023e2	1.27	NO	6.871e2	0.18355	0.18355	0.153
6 1,2,3,6,7,8-HxCDD	34.32	2.273e4	1.658e4	1.580e3	1.277e3	1.24	NO	2.857e3	0.73855	0.73855	0.147
7 1,2,3,7,8,9-HxCDD	34.56	1.197e4	8.748e3	7.947e2	6.419e2	1.24	NO	1.437e3	0.38010	0.38010	0.165

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Dataset: U:\VG12.PRO\Results\201109R1\201109R1-12.qld

Last Altered: Tuesday, November 10, 2020 12:32:20 Pacific Standard Time

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Name: 201109R1\_12, Date: 09-Nov-2020, Time: 16:20:05, ID: 2002171-02 USMPDI-042SG-201009 27.07, Description: USMPDI-042SG-201009

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.05	5.426e5	5.250e5	5.231e4	5.006e4	1.04	NO	1.024e5	36.946	36.946	0.524
2	1,2,3,4,6,7,8-HpCDD	38.08	3.045e5	2.964e5	2.510e4	2.440e4	1.03	NO	4.950e4	17.864	17.864	0.524

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.49	1.254e4	1.336e4	9.730e2	1.148e3	0.85	NO	2.121e3	0.32770	0.32770	0.0487
2	Total Tetra-Furans	22.42	9.512e3	1.173e4	8.386e2	1.169e3	0.72	NO	2.008e3	0.31020	0.31020	0.0487
3	Total Tetra-Furans	22.89	3.622e3	6.094e3	3.691e2	4.657e2	0.79	NO	8.347e2	0.12896	0.12896	0.0487
4	Total Tetra-Furans	23.02	3.126e3	4.071e3	1.801e2	2.467e2	0.73	NO	4.267e2	0.065929	0.065929	0.0487
5	Total Tetra-Furans	23.23	4.438e3	3.799e3	2.495e2	2.927e2	0.85	NO	5.422e2	0.083758	0.083758	0.0487
6	Total Tetra-Furans	23.98	4.024e3	6.006e3	2.341e2	3.323e2	0.70	NO	0.000e0	0.00000	0.087513	0.0487
7	Total Tetra-Furans	24.04	8.396e3	8.478e3	5.278e2	6.415e2	0.82	NO	1.169e3	0.18064	0.18064	0.0487
8	Total Tetra-Furans	24.47	2.193e4	3.340e4	1.782e3	2.329e3	0.77	NO	4.111e3	0.63517	0.63517	0.0487
9	Total Tetra-Furans	25.36	4.818e3	8.401e3	4.040e2	5.387e2	0.75	NO	9.427e2	0.14564	0.14564	0.0487
10	2,3,7,8-TCDF	25.48	4.059e4	5.410e4	2.654e3	3.482e3	0.76	NO	6.136e3	0.94802	0.94802	0.0487
11	Total Tetra-Furans	25.79	5.897e3	6.347e3	3.547e2	4.246e2	0.84	NO	7.793e2	0.12040	0.12040	0.0487
12	Total Tetra-Furans	27.40	1.961e3	3.176e3	1.370e2	1.827e2	0.75	NO	3.197e2	0.049398	0.049398	0.0487

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	26.99	5.269e4	3.628e4	3.374e3	2.168e3	1.56	NO	5.542e3	0.87429	0.87429	0.0153

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Dataset: U:\VG12.PRO\Results\201109R1\201109R1-12.qld

Last Altered: Tuesday, November 10, 2020 12:32:20 Pacific Standard Time

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Name: 201109R1\_12, Date: 09-Nov-2020, Time: 16:20:05, ID: 2002171-02 USMPDI-042SG-201009 27.07, Description: USMPDI-042SG-201009

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Furans	28.46	4.614e3	3.329e3	3.656e2	2.577e2	1.42	NO	6.233e2	0.098333	0.098333	0.0453
2	Total Penta-Furans	28.62	3.946e4	3.006e4	3.016e3	2.168e3	1.39	NO	5.184e3	0.81784	0.81784	0.0453
3	Total Penta-Furans	29.25	1.090e4	1.021e4	7.751e2	5.829e2	1.33	NO	1.358e3	0.21424	0.21424	0.0453
4	Total Penta-Furans	29.43	8.137e3	4.358e3	4.778e2	2.910e2	1.64	NO	7.688e2	0.12129	0.12129	0.0453
5	1,2,3,7,8-PeCDF	29.61	7.621e4	4.126e4	3.899e3	2.467e3	1.58	NO	6.366e3	1.0111	1.0111	0.0460
6	Total Penta-Furans	29.87	2.947e4	1.954e4	1.521e3	9.237e2	1.65	NO	2.445e3	0.38573	0.38573	0.0453
7	2,3,4,7,8-PeCDF	30.67	4.788e4	3.329e4	2.777e3	1.860e3	1.49	NO	4.637e3	0.65467	0.65467	0.0402

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.02	2.245e4	1.602e4	1.138e3	8.469e2	1.34	NO	1.985e3	0.44285	0.44285	0.0818
2	Total Hexa-Furans	32.19	7.205e4	5.560e4	3.587e3	2.957e3	1.21	NO	6.544e3	1.4601	1.4601	0.0818
3	Total Hexa-Furans	32.82	1.028e5	7.384e4	5.674e3	4.407e3	1.29	NO	1.008e4	2.2495	2.2495	0.0818
4	1,2,3,4,7,8-HxCDF	33.29	5.186e4	4.263e4	3.277e3	2.540e3	1.29	NO	5.817e3	1.2960	1.2960	0.0722
5	1,2,3,6,7,8-HxCDF	33.41	1.362e4	1.648e4	9.044e2	8.227e2	1.10	NO	1.727e3	0.35436	0.35436	0.0707
6	2,3,4,6,7,8-HxCDF	34.09	7.788e3	7.843e3	6.231e2	5.372e2	1.16	NO	1.160e3	0.25844	0.25844	0.0809
7	1,2,3,7,8,9-HxCDF	35.10	7.571e3	5.621e3	3.271e2	2.983e2	1.10	NO	6.254e2	0.16363	0.16363	0.114
8	Total Hexa-Furans	35.11	4.920e3	5.265e3	2.101e2	1.907e2	1.10	NO	4.007e2	0.089412	0.089412	0.0818

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	36.67	5.175e4	4.976e4	4.797e3	4.597e3	1.04	NO	9.394e3	2.8539	2.8539	0.134
2	Total Hepta-Furans	37.40	9.403e4	9.341e4	8.472e3	8.866e3	0.96	NO	1.734e4	6.0021	6.0021	0.142
3	1,2,3,4,7,8,9-HpCDF	38.69	8.364e3	6.003e3	5.339e2	4.787e2	1.12	NO	1.013e3	0.36197	0.36197	0.136

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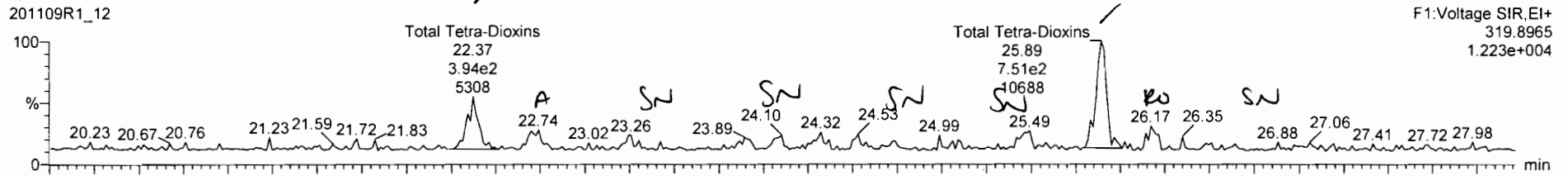
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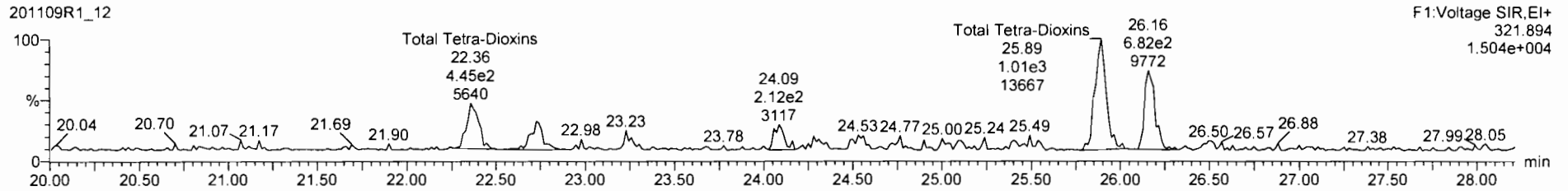
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### 2,3,7,8-TCDD

201109R1\_12

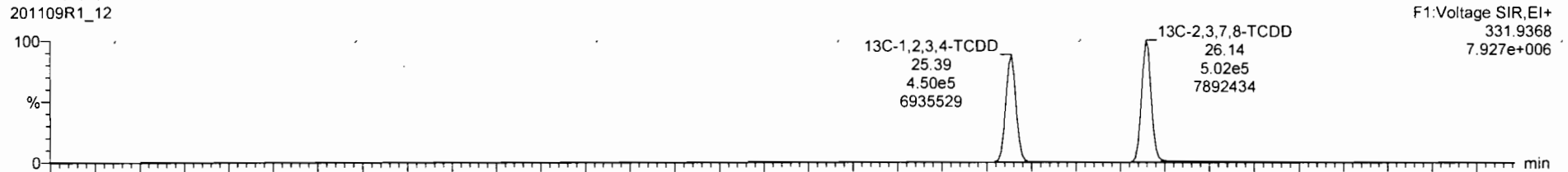


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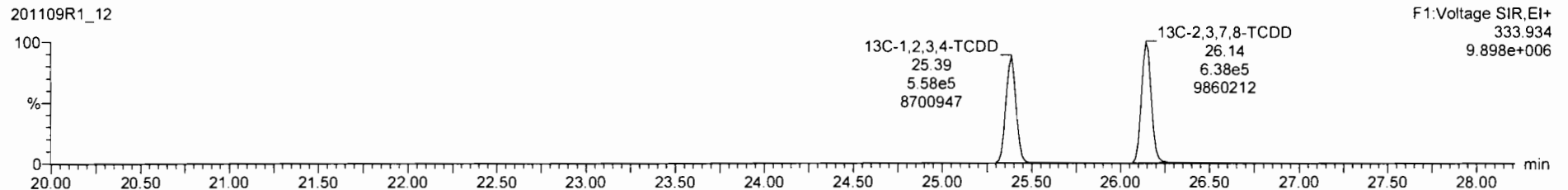


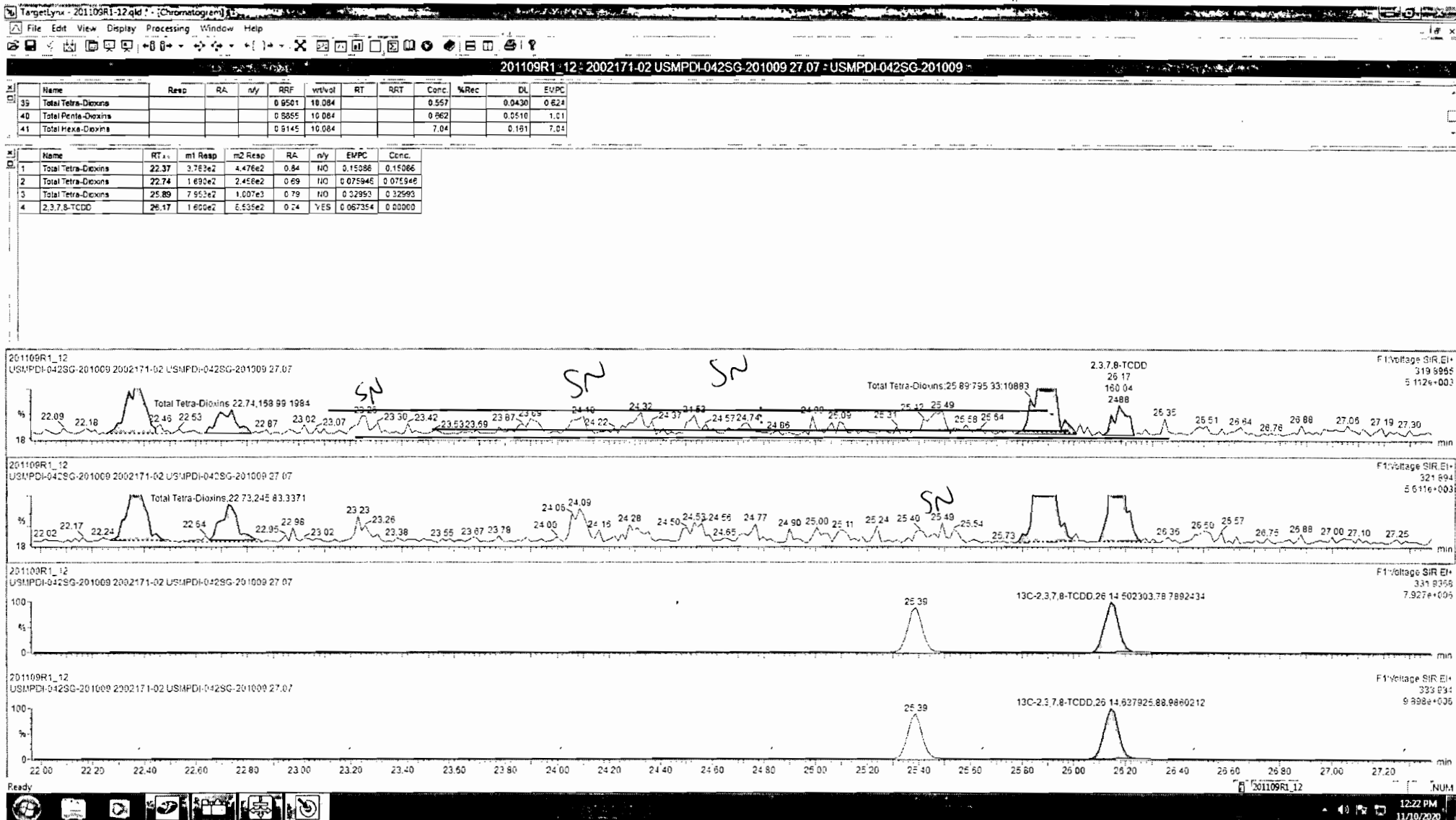
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201109R1\_12



201109R1\_12





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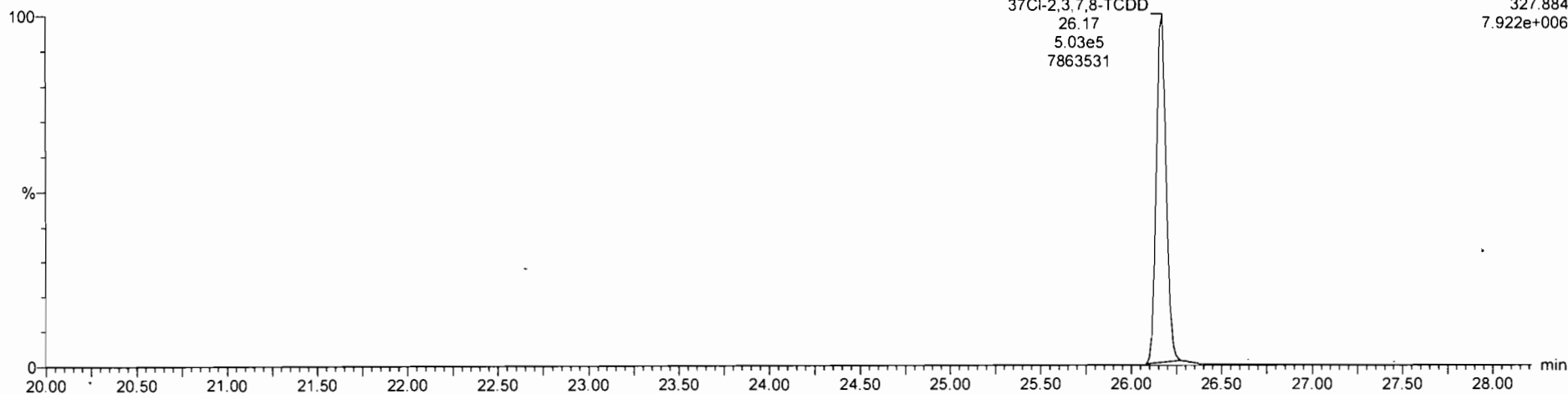
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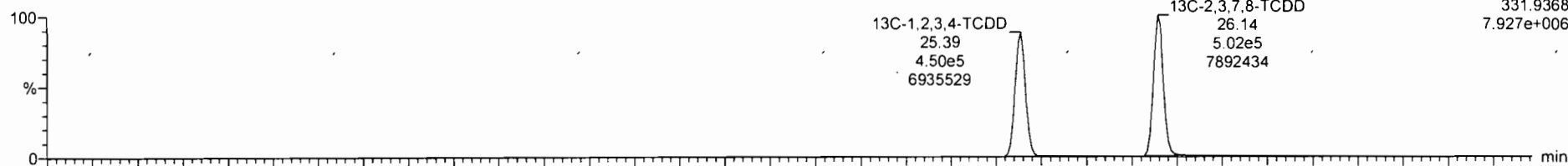
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201109R1\_12

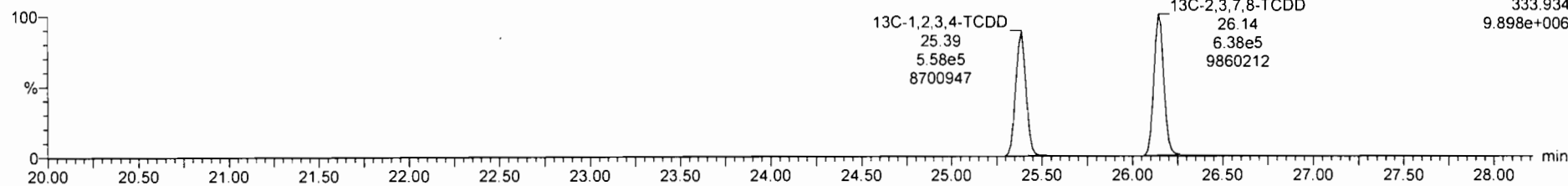


**13C-1,2,3,4-TCDD**

201109R1\_12



201109R1\_12





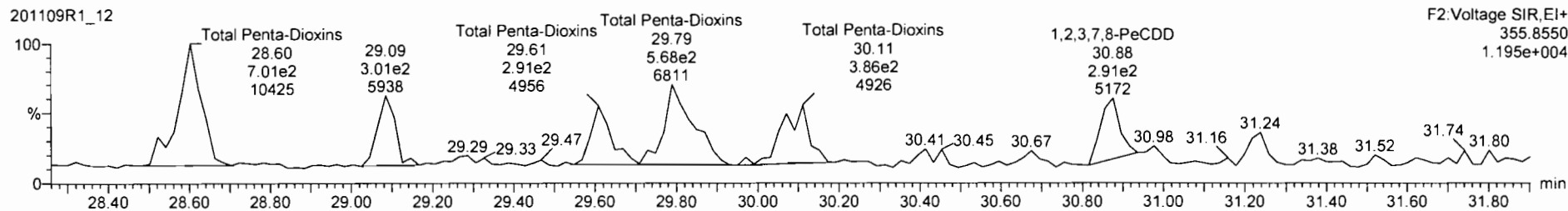
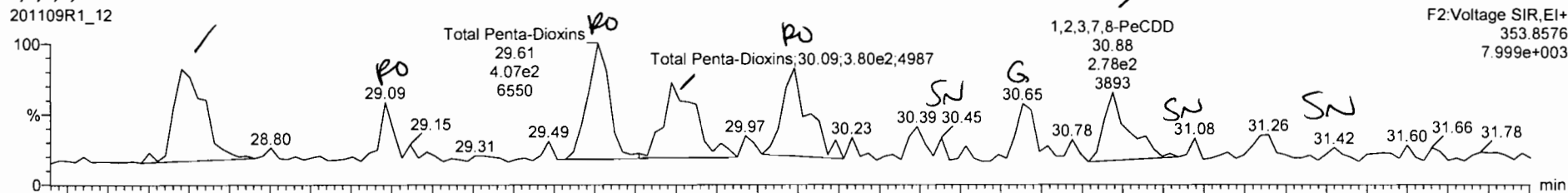
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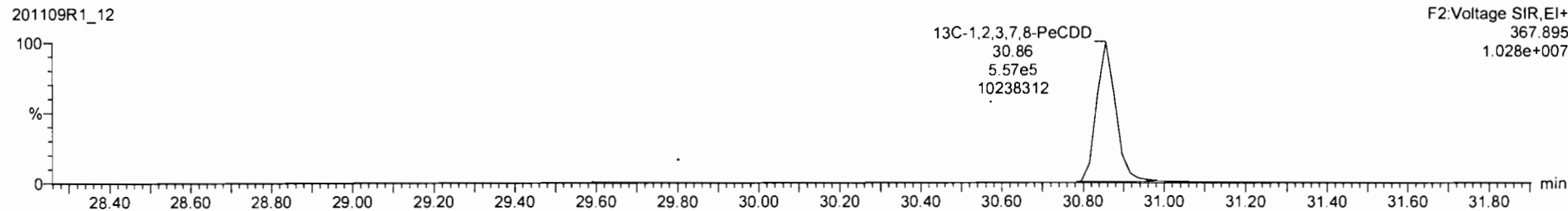
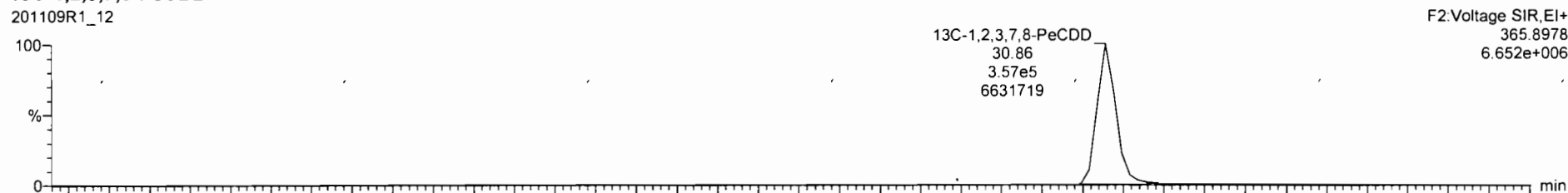
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1,2,3,7,8-PeCDD

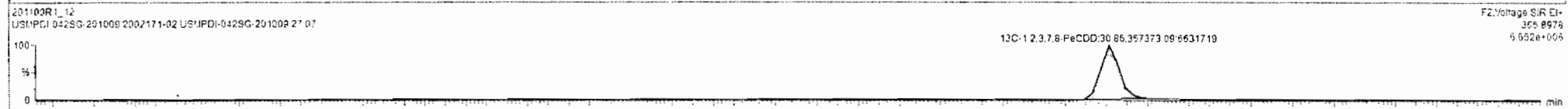
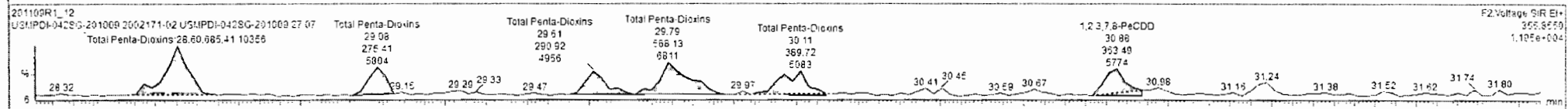
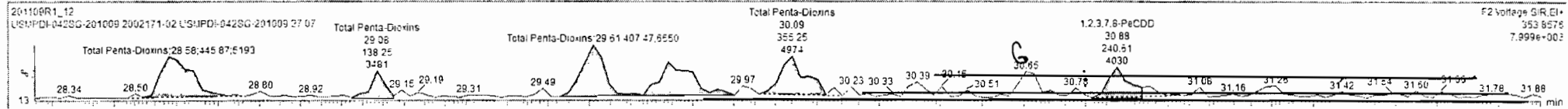


13C-1,2,3,7,8-PeCDD



Name	Resp	RA	ny	RF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
33 Total Tetra-Dioxins				0.5501	10.084			0.557		0.0430	0.624
40 Total Penta-Dioxins				0.8855	10.084			0.862		0.0510	1.02
41 Total Hexa-Dioxins				0.9145	10.084			7.04		0.181	7.04

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
1 Total Penta-Dioxins	26.56	4.459e2	5.654e2	0.65	NO	0.27717	0.27717
2 Total Penta-Dioxins	29.06	1.383e2	2.754e2	0.50	YES	0.087536	0.00000
3 Total Penta-Dioxins	29.61	4.075e2	2.909e2	1.40	YES	0.11818	0.00000
4 Total Penta-Dioxins	29.79	3.581e2	5.881e2	0.70	NO	0.23674	0.23674
5 Total Penta-Dioxins	30.09	3.533e2	3.867e2	0.91	YES	0.15584	0.00000
6 1,2,3,7,8-PeCDD	30.86	2.406e2	3.615e2	0.66	NO	0.14800	0.14800



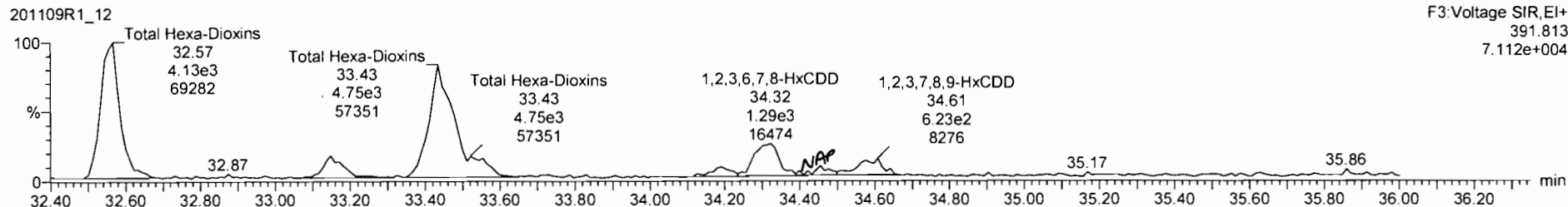
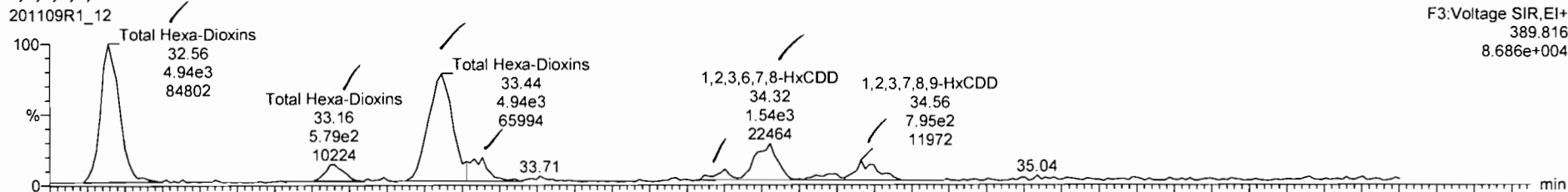
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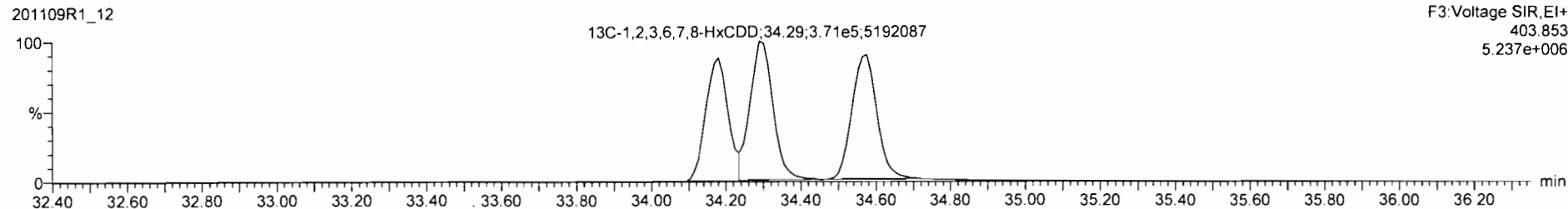
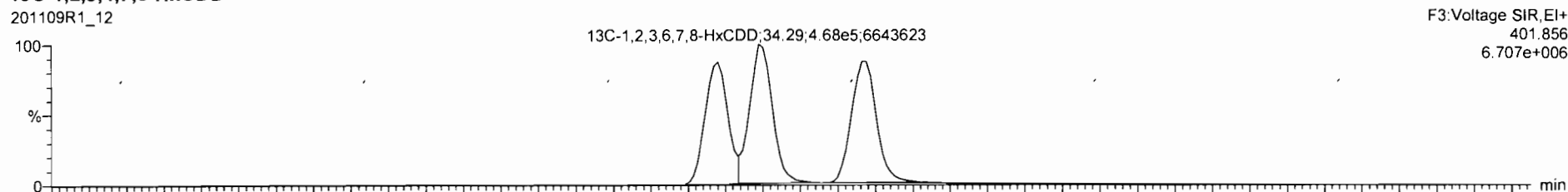
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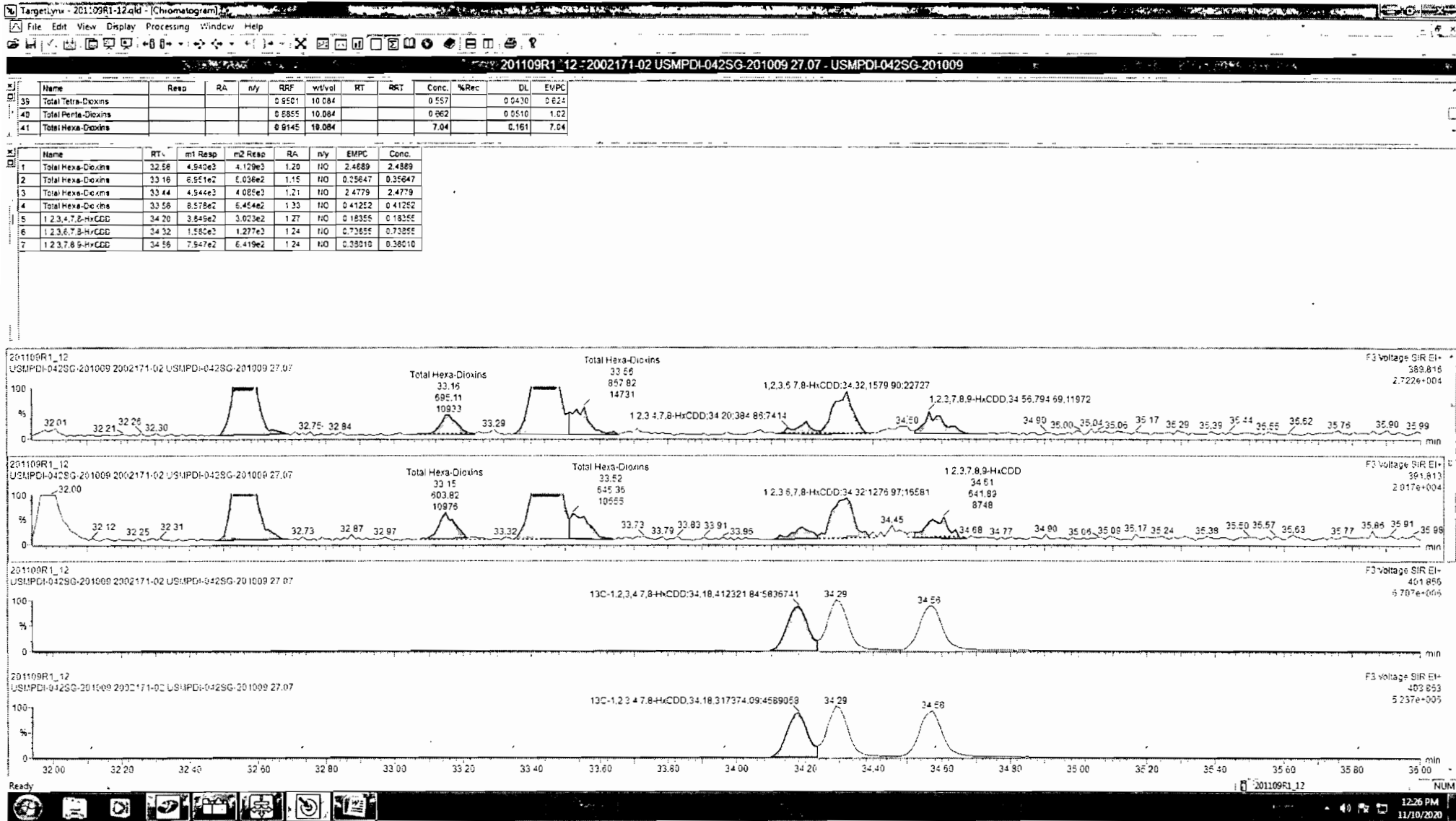
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**1,2,3,4,7,8-HxCDD**



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



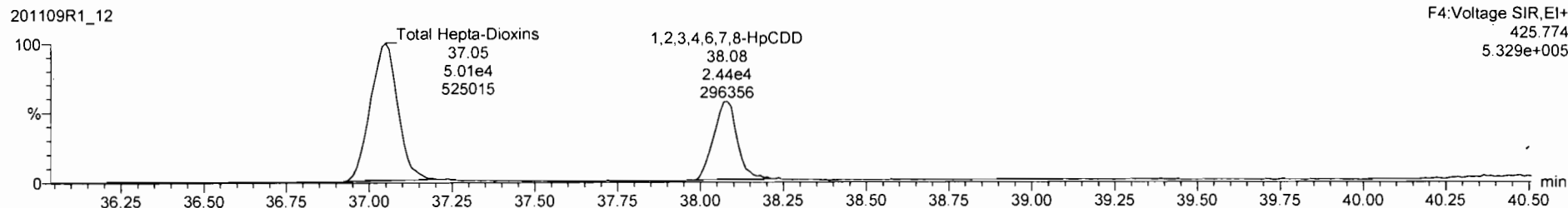
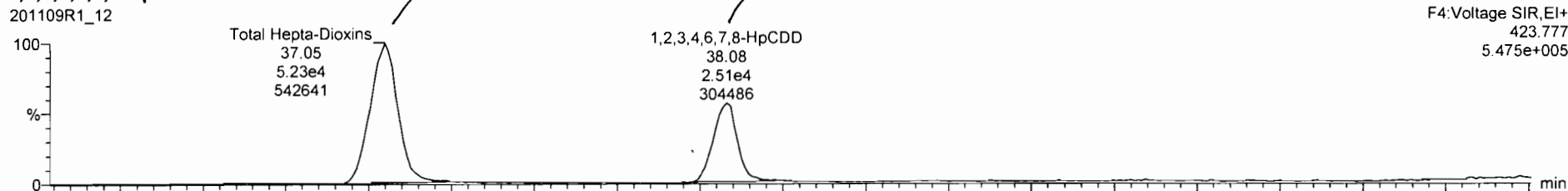


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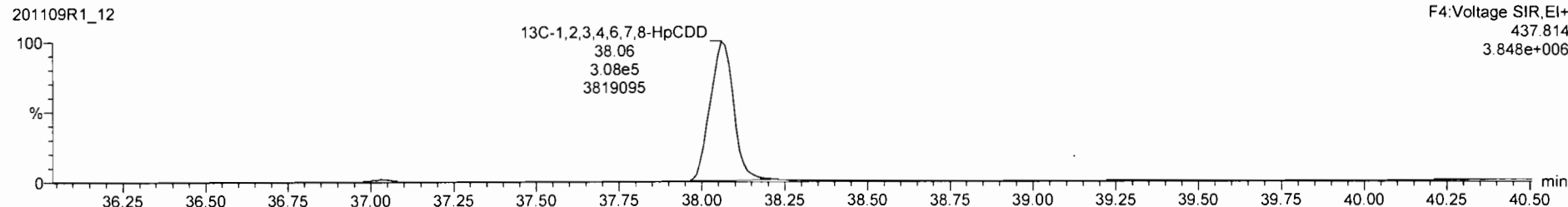
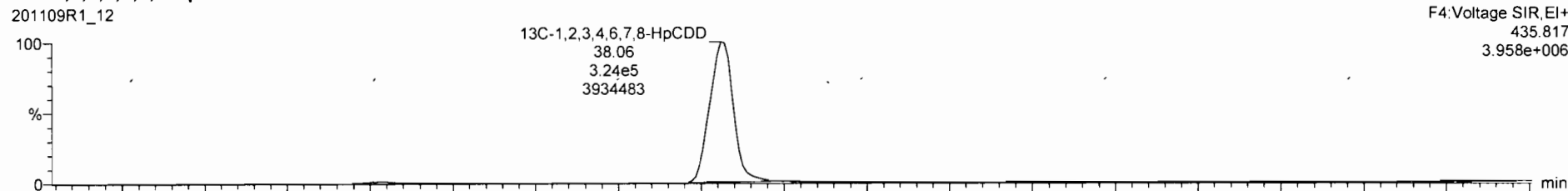
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1,2,3,4,6,7,8-HpCDD



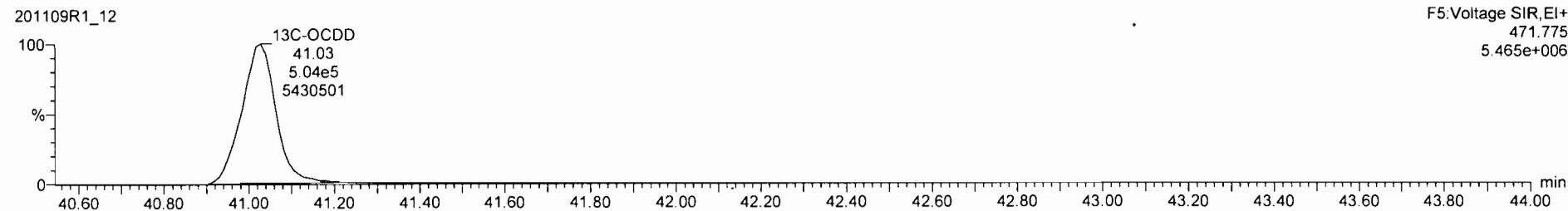
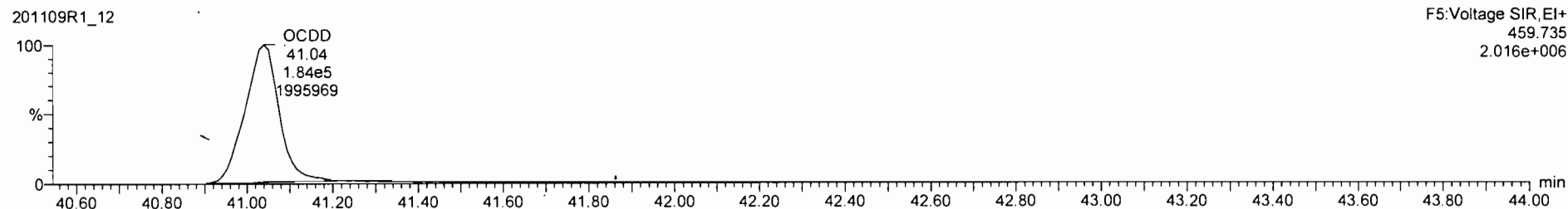
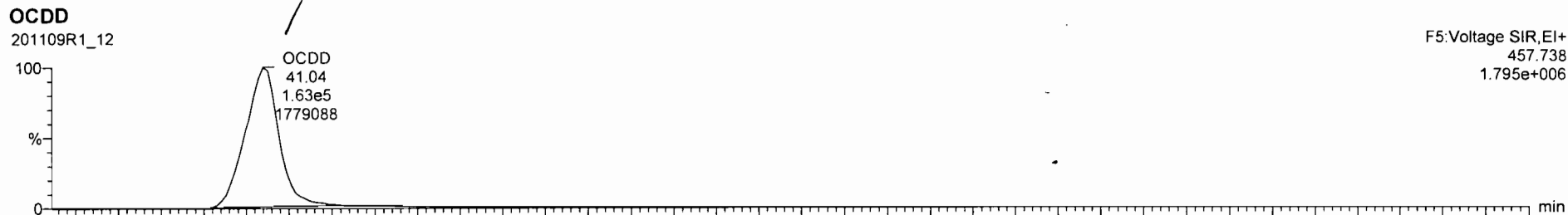
13C-1,2,3,4,6,7,8-HpCDD



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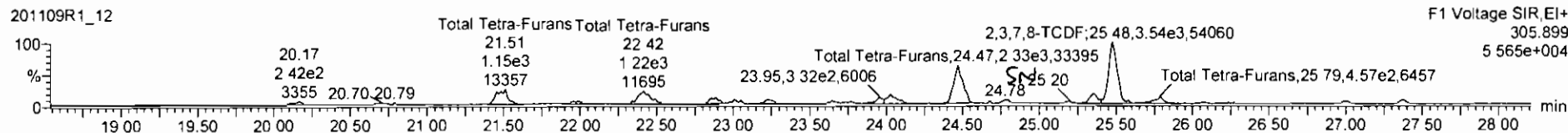
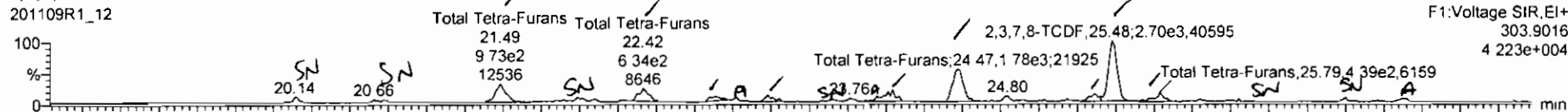
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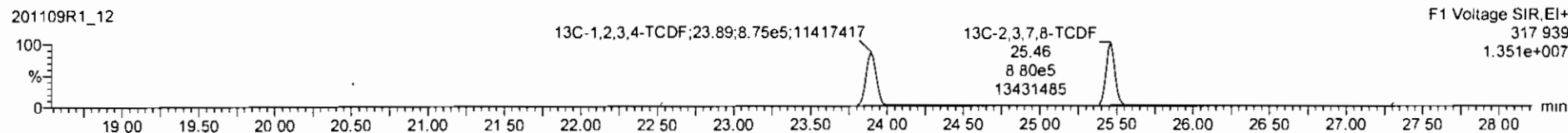
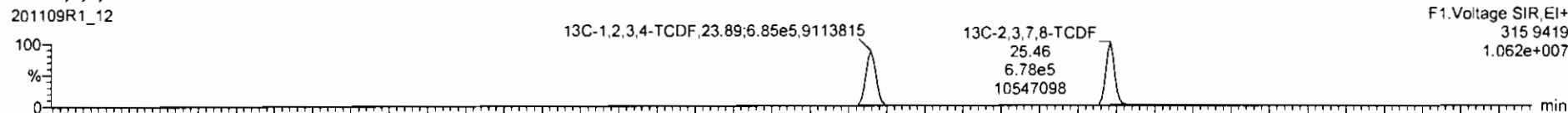
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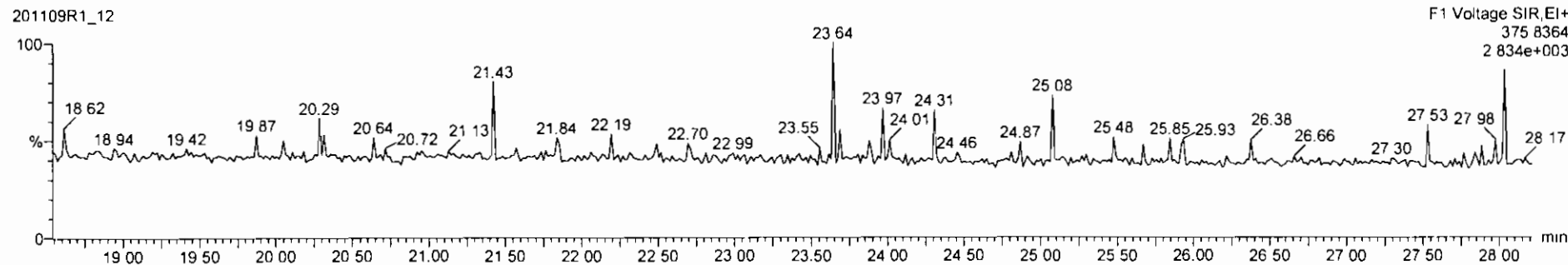
2,3,7,8-TCDF



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

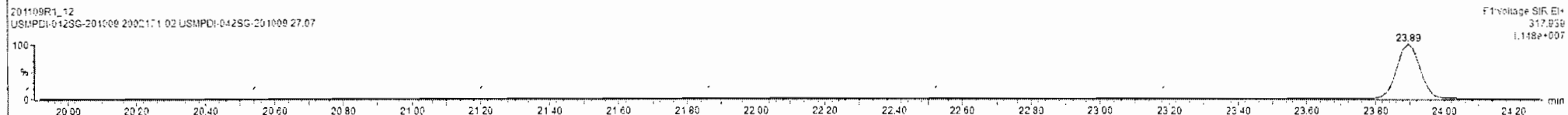
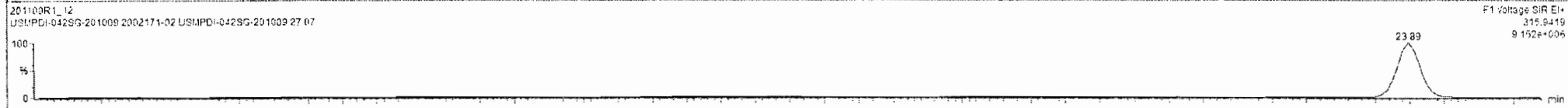
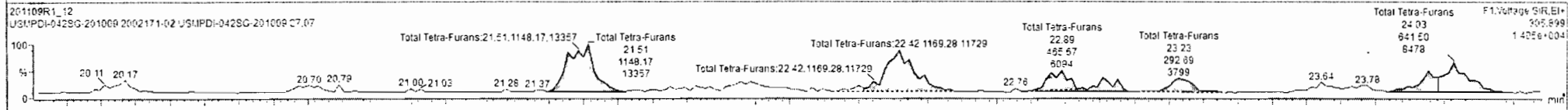
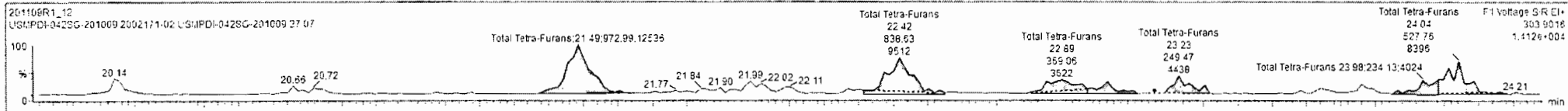


DPE1



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.084			2.70		0.0487	3.03
44 1st Func Penta-Furans				0.9628	10.084			0.874		0.0153	0.874
45 Total Penta-Furans				0.9628	10.084			3.17		0.0453	3.27

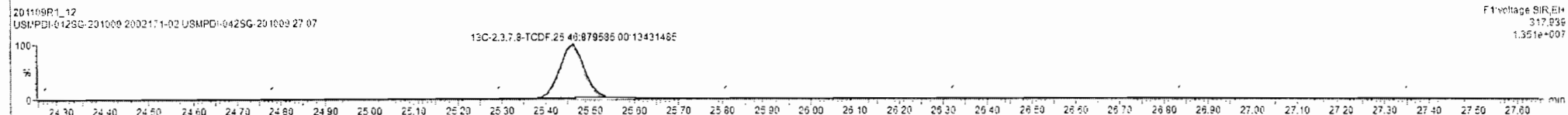
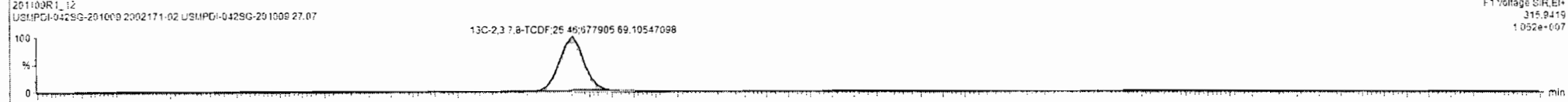
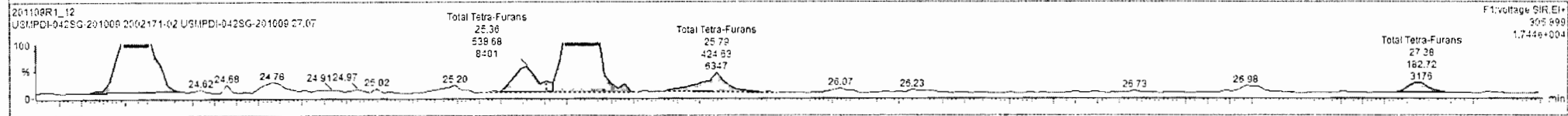
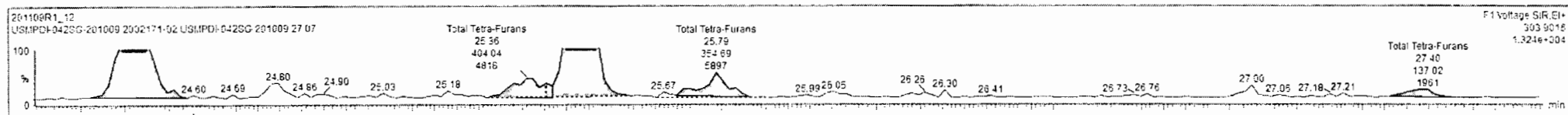
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.49	9.730e2	1.146e3	0.85	NO	0.32770	0.32770
2 Total Tetra-Furans	22.42	8.386e2	1.169e3	0.72	NO	0.31020	0.31020
3 Total Tetra-Furans	22.89	3.691e2	4.657e2	0.79	NO	0.12856	0.12856
4 Total Tetra-Furans	23.02	1.801e2	2.467e2	0.73	NO	0.065929	0.065929
5 Total Tetra-Furans	23.73	2.495e2	2.927e2	0.85	NO	0.083758	0.083758
6 Total Tetra-Furans	23.98	2.341e2	3.323e2	0.70	NO	0.087513	0.087513
7 Total Tetra-Furans	24.04	5.278e2	5.415e2	0.82	NO	0.18054	0.18054
8 Total Tetra-Furans	24.47	1.782e3	2.329e3	0.77	NO	0.63517	0.63517
9 Total Tetra-Furans	25.36	3.412e2	5.291e2	0.64	YES	0.12118	0.00000
10 2,3,7,8-TCDF	25.48	2.702e3	3.636e3	0.76	NO	0.99376	0.96376
11 Total Tetra-Furans	25.79	4.393e2	4.572e2	0.96	YES	0.12562	0.00000





Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.084			3.00	0.0487	3.08	
44 1st Func. Penta-Furans				0.9628	10.084			0.874	0.0153	0.874	
45 Total Penta-Furans				0.9628	10.084			3.17	0.0453	3.27	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.49	9.730e2	1.146e3	0.85	NO	0.32770	0.32770
2 Total Tetra-Furans	22.42	8.396e2	1.169e3	0.72	NO	0.31020	0.31020
3 Total Tetra-Furans	22.89	3.691e2	4.657e2	0.79	NO	0.12596	0.12896
4 Total Tetra-Furans	23.02	1.801e2	2.467e2	0.73	NO	0.065928	0.065928
5 Total Tetra-Furans	23.23	2.491e2	2.927e2	0.85	NO	0.093758	0.093758
6 Total Tetra-Furans	23.96	2.341e2	3.325e2	0.70	NO	0.087513	0.087513
7 Total Tetra-Furans	24.04	5.278e2	6.415e2	0.82	NO	0.13064	0.13064
8 Total Tetra-Furans	24.47	1.782e3	2.329e3	0.77	NO	0.63517	0.63517
9 Total Tetra-Furans	25.36	4.040e2	5.387e2	0.75	NO	0.14664	0.14664
10 2,3,7,8-TCDF	25.48	2.851e3	3.482e3	0.76	NO	0.94802	0.94802
11 Total Tetra-Furans	25.79	3.547e2	4.246e2	0.84	NO	0.12040	0.12040
12 Total Tetra-Furans	27.40	1.370e2	1.827e2	0.75	NO	0.049396	0.049396



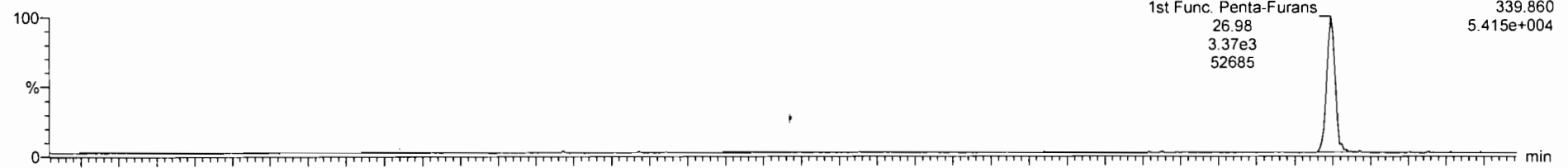
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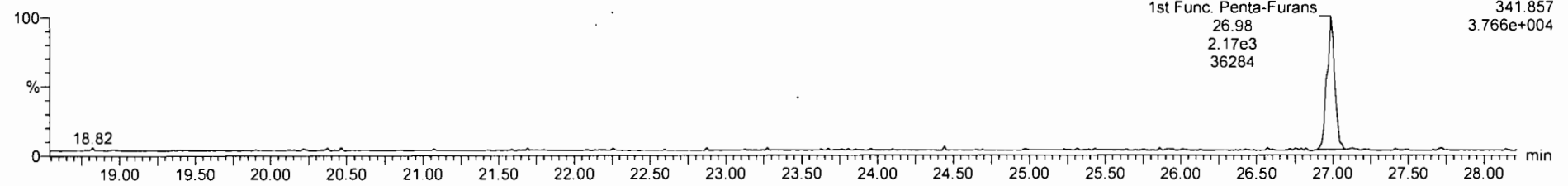
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1st Func. Penta-Furans

201109R1\_12

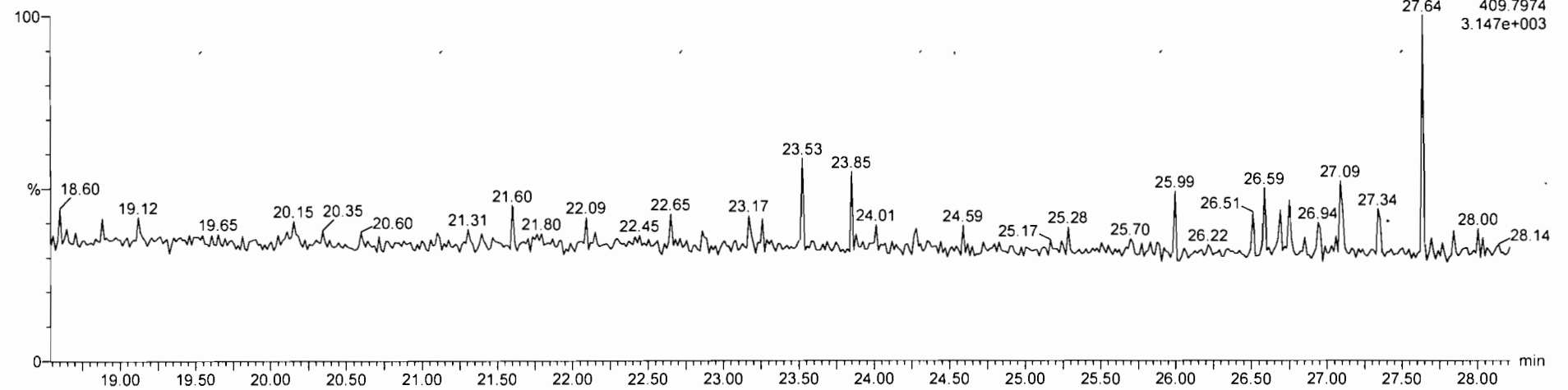


201109R1\_12



DPE6

201109R1\_12

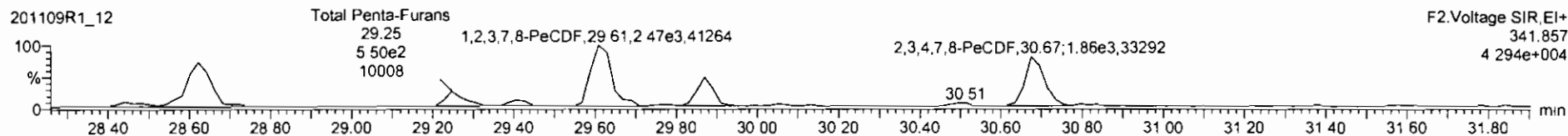
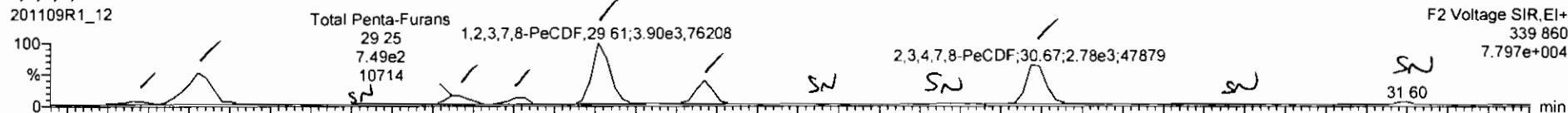


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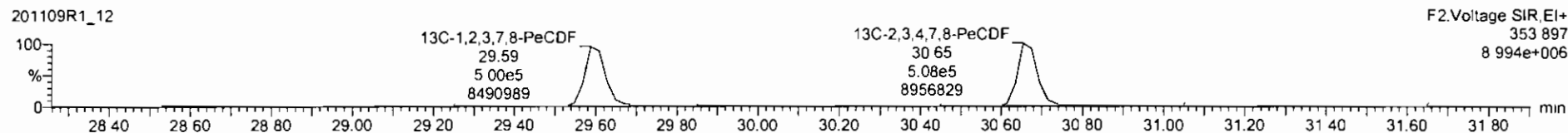
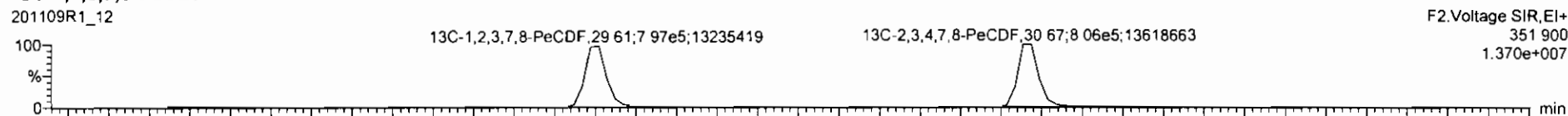
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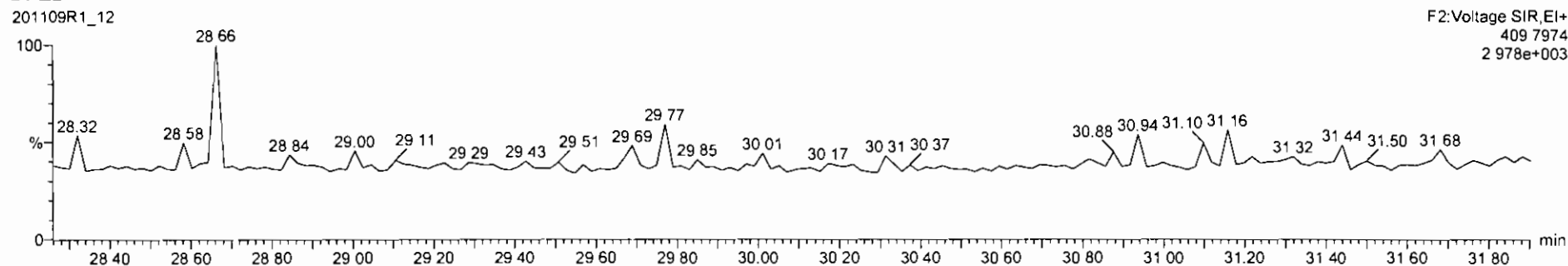
**1,2,3,7,8-PeCDF**

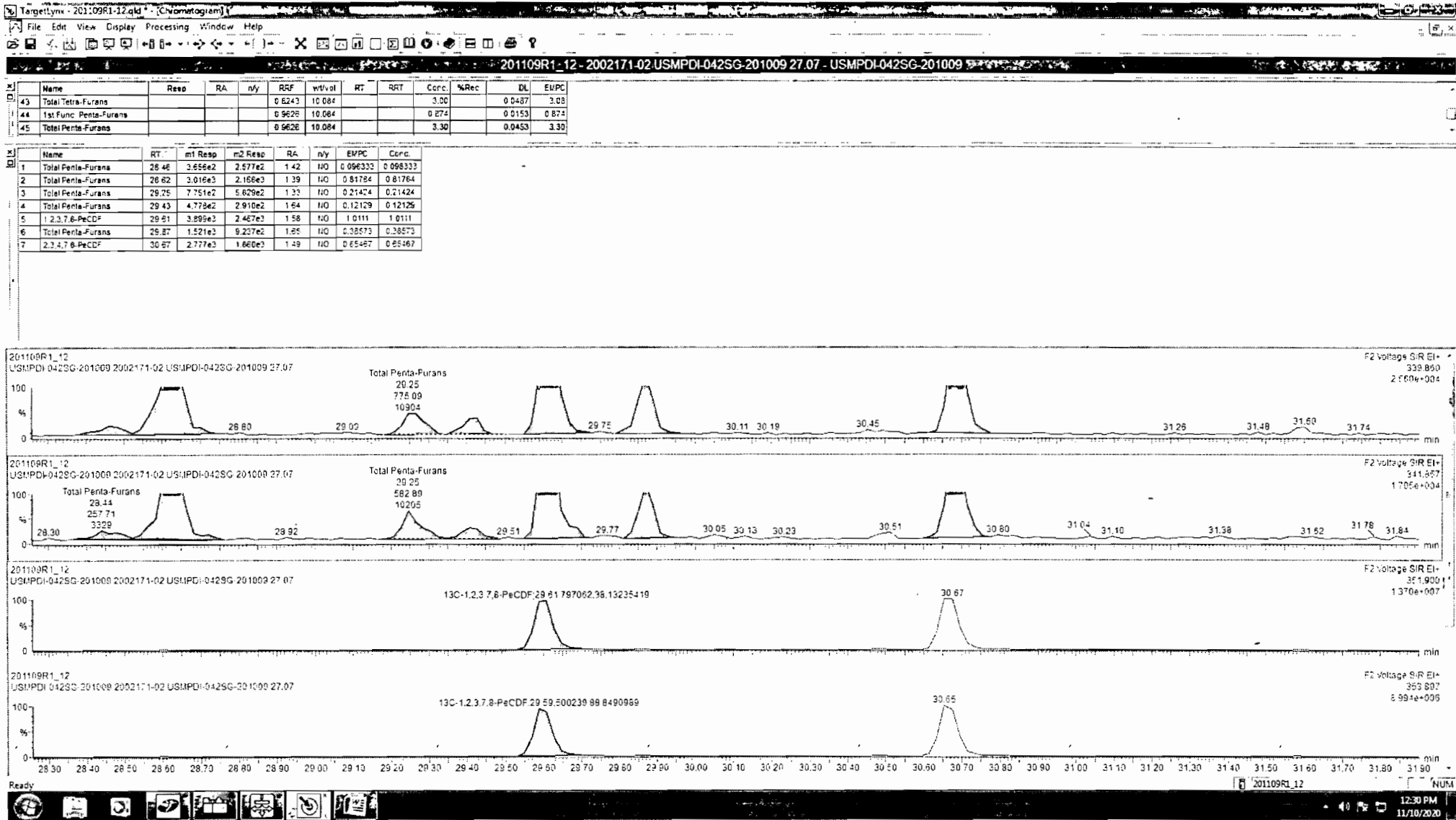


**13C-1,2,3,7,8-PeCDF**



**DPE2**



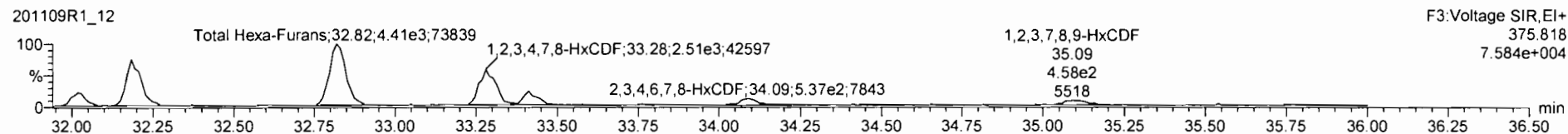
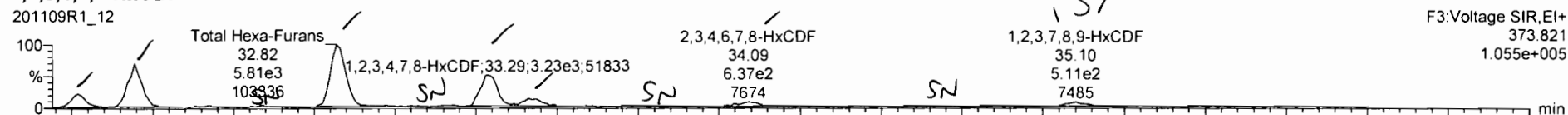


Dataset: Untitled

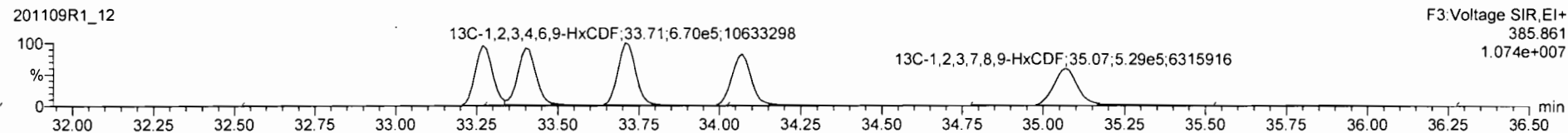
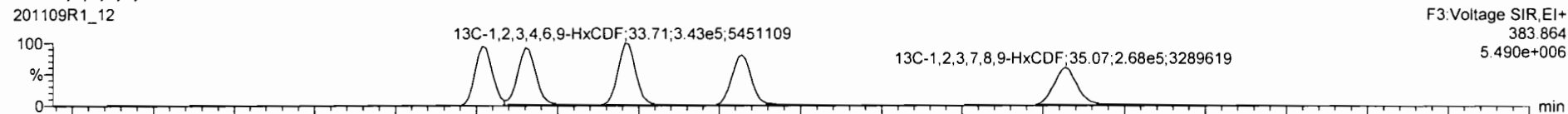
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Printed: Tuesday, November 10, 2020 7:12:18 AM Pacific Standard Time

Name: 201109R1\_12, Date: 09-Nov-2020, Time: 16:20:05, ID: 2002171-02 USMPDI-042SG-201009 27.07, Description: USMPDI-042SG-201009

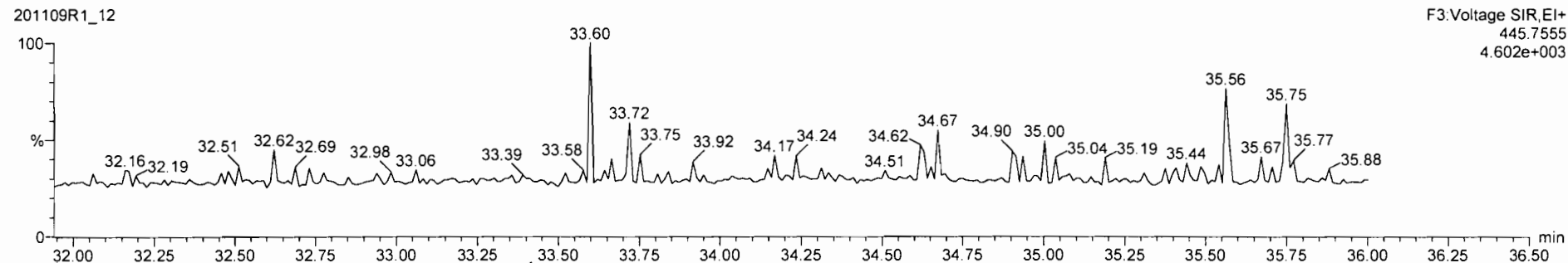
### 1,2,3,4,7,8-HxCDF



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

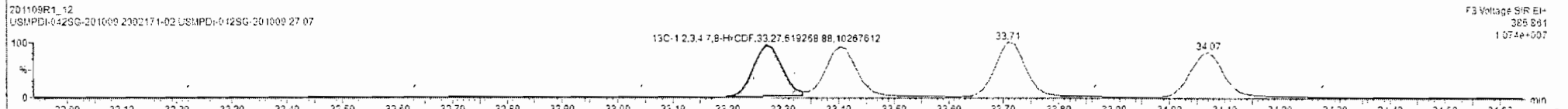
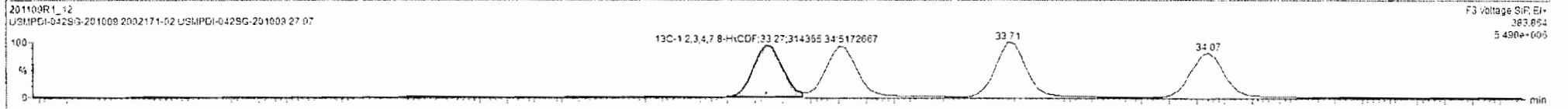
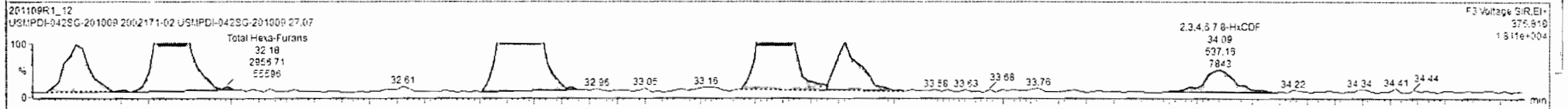
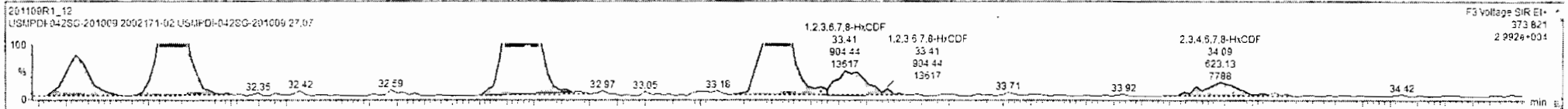


### DPE3



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.084			3.00		0.0487	3.08
44 1st Func Penta-Furans				0.9628	10.084			0.874		0.0153	0.874
45 Total Penta-Furans				0.9626	10.084			3.30		0.0453	3.30

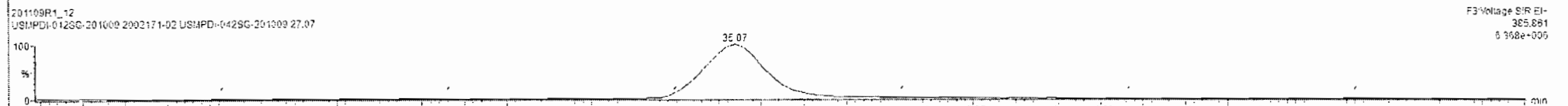
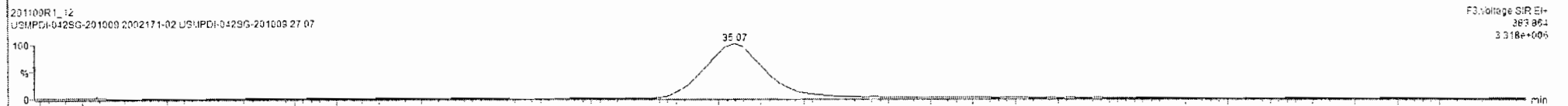
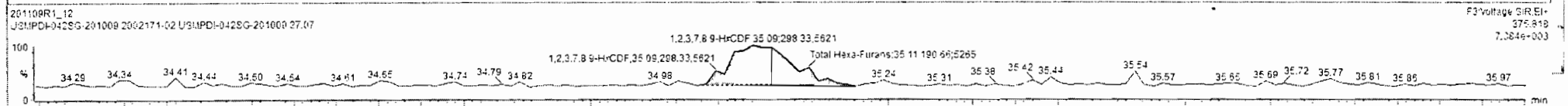
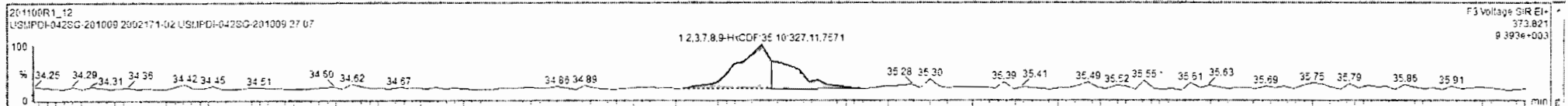
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total hexa-Furans	32.02	1.139e3	5.469e2	1.34	NO	0.44285	0.44285
2 Total Hexa-Furans	32.19	3.587e3	2.957e3	1.21	NO	1.4601	1.4601
3 Total Hexa-Furans	32.82	5.674e3	4.407e3	1.29	NO	2.2495	2.2495
4 1,2,3,4,7,8-HxCDF	33.29	3.277e3	2.540e3	1.29	NO	1.2960	1.2960
5 1,2,3,6,7,8-HxCDF	33.41	9.044e2	5.227e2	1.10	NO	0.35438	0.35438
6 2,3,4,6,7,8-HxCDF	34.09	6.231e2	5.372e2	1.16	NO	0.25844	0.25844
7 1,2,3,7,8,9-HxCDF	35.10	5.105e2	4.583e2	1.11	NO	0.25345	0.25345



201109R1\_12 - 2002171-02 USMPDI-042SG-201009 27.07 - USMPDI-042SG-201009

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.084			3.00		0.0487	3.02
44 1st Func. Penta-Furans				0.9628	10.084			0.874		0.0153	0.874
45 Total Penta-Furans				0.9628	10.084			3.30		0.0453	3.35

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.02	1.138e3	8.469e2	1.34	NO	0.44285	0.44285
2 Total Hexa-Furans	32.19	3.587e3	2.957e3	1.21	NO	1.4601	1.4601
3 Total Hexa-Furans	32.82	5.874e3	4.407e3	1.29	NO	2.2495	2.2495
4 1,2,3,4,7,8-HxCDF	33.29	3.277e3	2.540e3	1.29	NO	1.2960	1.2960
5 1,2,3,6,7,8-HxCDF	33.41	9.044e2	8.272e2	1.10	NO	0.35436	0.35436
6 2,3,4,6,7,8-HxCDF	34.09	6.231e2	5.372e2	1.16	NO	0.25844	0.25844
7 1,2,3,7,8,9-HxCDF	35.10	3.271e2	2.983e2	1.10	NO	0.18363	0.18363
8 Total Hexa-Furans	35.11	2.101e2	1.967e2	1.10	NO	0.089412	0.089412

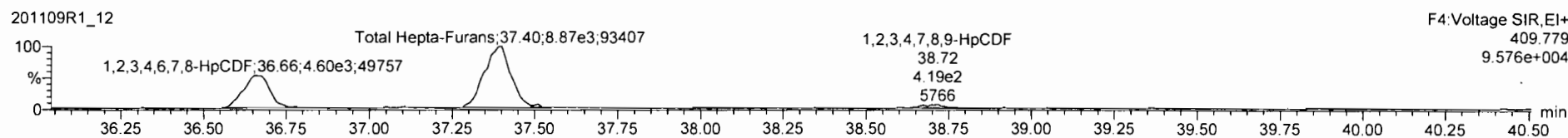


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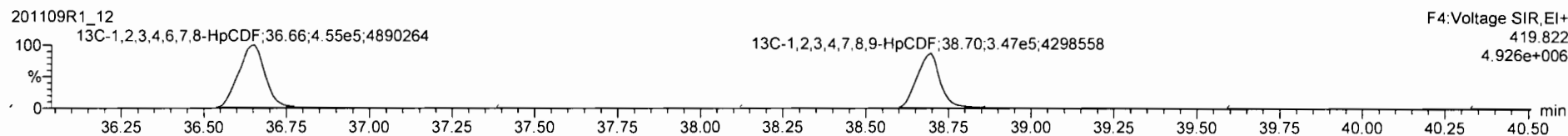
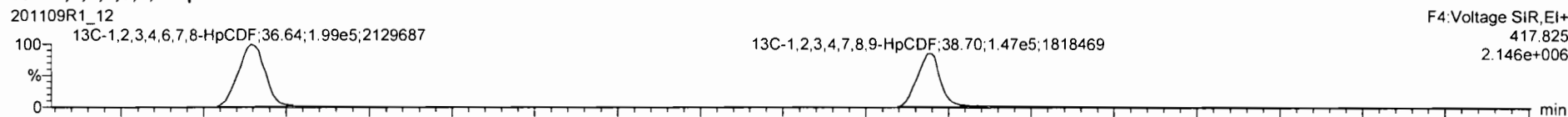
Last Altered: Tuesday, November 10, 2020 7:12:11 AM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 7:12:18 AM Pacific Standard Time

Name: 201109R1\_12, Date: 09-Nov-2020, Time: 16:20:05, ID: 2002171-02 USMPDI-042SG-201009 27.07, Description: USMPDI-042SG-201009

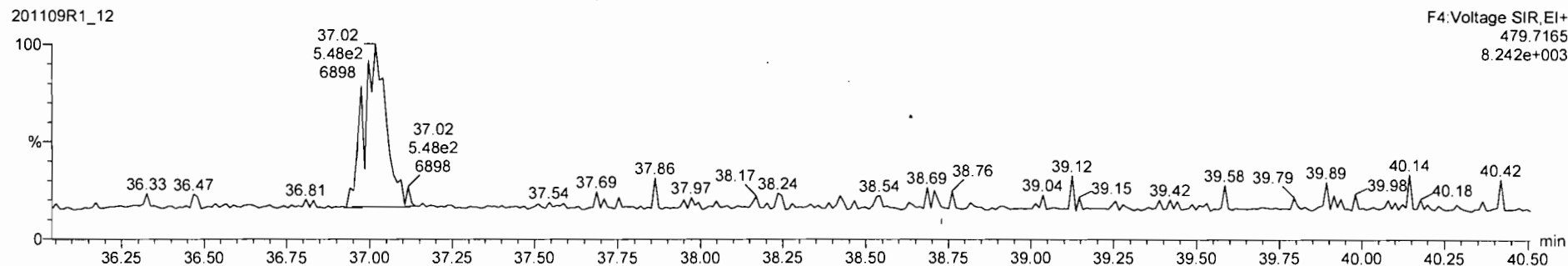
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**

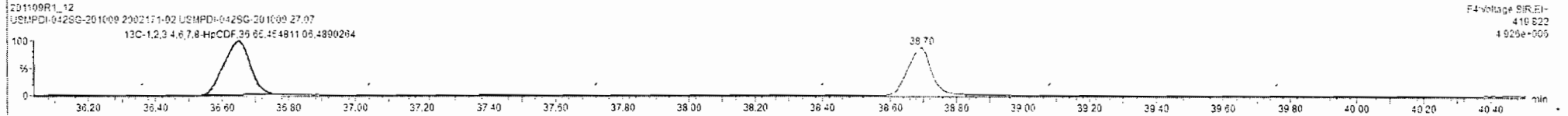
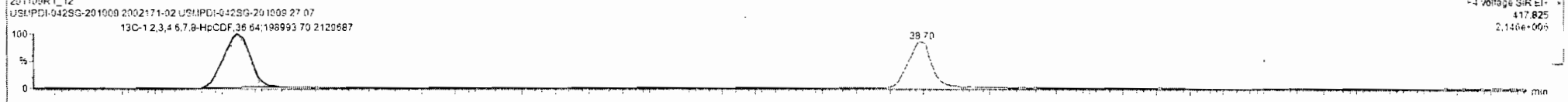
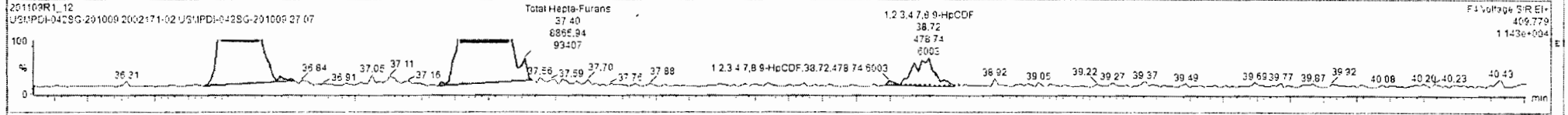
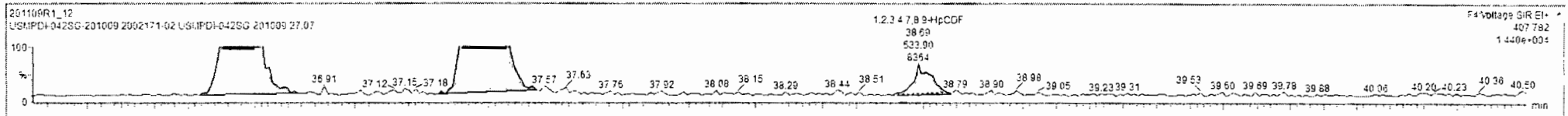




201109R1-12 - 2002171-02 USMPDI-042SG-201009 27.07 - USMPDI-042SG-201009

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EU/PC
47 Total Hepta-Furans				0.9986	10.084			9.22		0.142	9.22
48 PFK1											
49 PFK2											

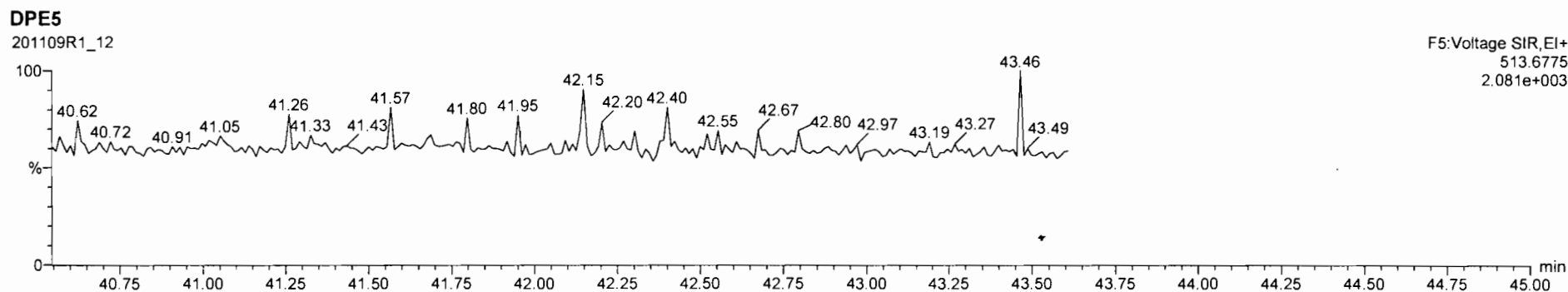
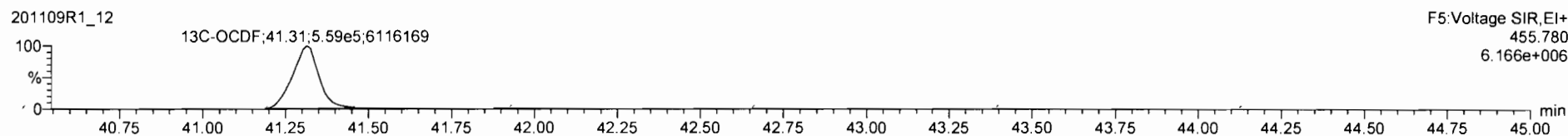
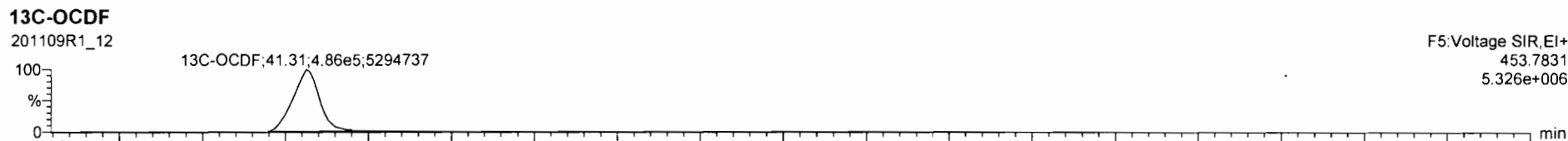
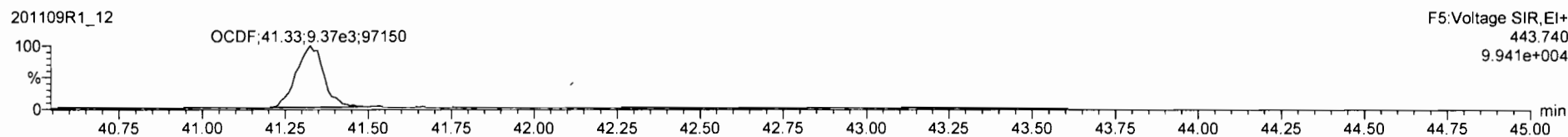
Name	RT.1	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.67	4.797e3	4.597e3	1.04	NO	2.8539	2.6539
2 Total Hepta-Furans	37.40	8.472e3	8.666e3	0.96	NO	6.0021	6.0021
3 1,2,3,4,7,8,9-HpCDF	36.69	5.335e2	4.787e2	1.12	NO	0.36197	0.36197



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Last Altered: Tuesday, November 10, 2020 7:12:11 AM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 7:12:18 AM Pacific Standard Time

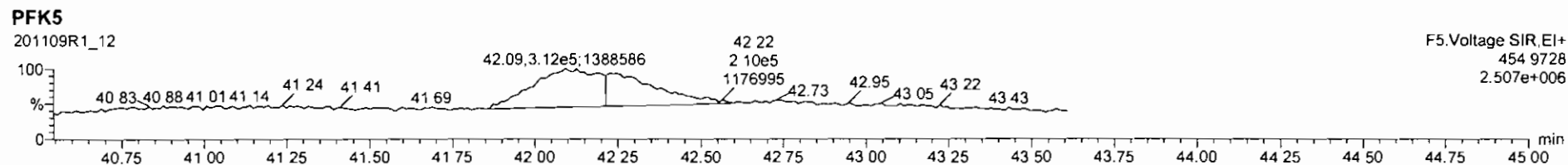
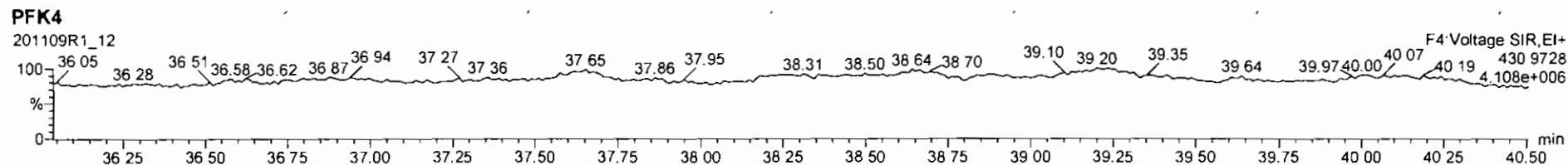
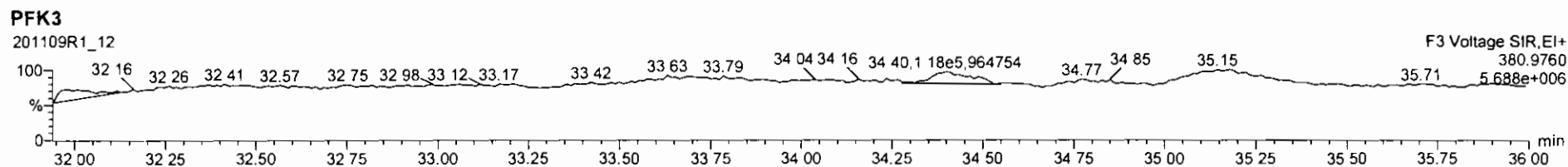
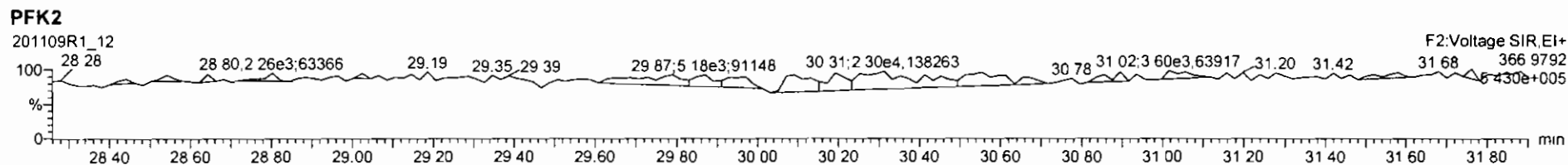
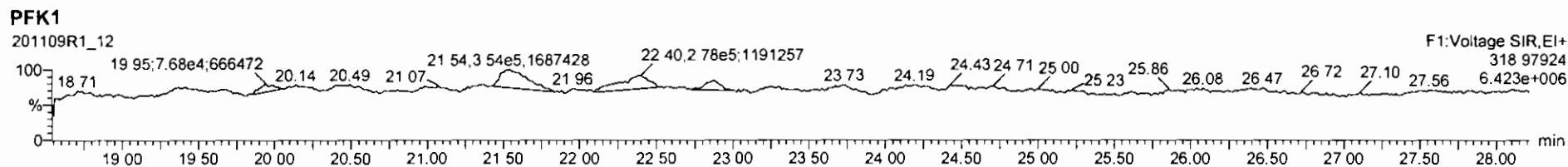
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Last Altered: Tuesday, November 10, 2020 7:12:11 AM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 7:12:18 AM Pacific Standard Time

Name: 201109R1\_12, Date: 09-Nov-2020, Time: 16:20:05, ID: 2002171-02 USMPDI-042SG-201009 27.07, Description: USMPDI-042SG-201009



Dataset: U:\VG12.PRO\Results\201109R1\201109R1-13.qld

Last Altered: Tuesday, November 10, 2020 12:50:36 Pacific Standard Time

Printed: Tuesday, November 10, 2020 12:51:10 Pacific Standard Time

*GRB 11/10/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

*CT 11/12/2020*

Name: 201109R1\_13, Date: 09-Nov-2020, Time: 17:04:54, ID: 2002171-03 USMPDI-043SG-201009 28.52, Description: USMPDI-043SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.33e3	0.34	YES	0.950	10.011	26.171	26.16	1.001	1.001	0.22667		0.400	0.140
2	2 1,2,3,7,8-PeCDD	1.84e3	0.66	NO	0.885	10.011	30.845	30.86	1.000	1.001	0.44068		0.0874	0.441
3	3 1,2,3,4,7,8-HxCDD	2.32e3	1.28	NO	1.02	10.011	34.196	34.17	1.001	1.000	0.62426		0.215	0.624
4	4 1,2,3,6,7,8-HxCDD	9.33e3	1.34	NO	0.915	10.011	34.300	34.30	1.000	1.000	2.4234		0.218	2.42
5	5 1,2,3,7,8,9-HxCDD	4.84e3	1.18	NO	0.934	10.011	34.574	34.56	1.000	1.000	1.2825		0.232	1.28
6	6 1,2,3,4,6,7,8-HpCDD	1.79e5	1.03	NO	0.870	10.011	38.049	38.06	1.000	1.000	61.646		0.648	61.6
7	7 OCDD	1.35e6	0.88	NO	0.872	10.011	41.018	41.03	1.000	1.000	599.72		0.767	600
8	8 2,3,7,8-TCDF	1.99e4	0.77	NO	0.824	10.011	25.455	25.48	1.000	1.001	2.9906		0.0669	2.99
9	9 1,2,3,7,8-PeCDF	2.73e4	1.59	NO	0.963	10.011	29.597	29.61	1.000	1.001	4.1966		0.0592	4.20
10	10 2,3,4,7,8-PeCDF	1.55e4	1.56	NO	1.07	10.011	30.655	30.67	1.000	1.001	2.1306		0.0487	2.13
11	11 1,2,3,4,7,8-HxCDF	7.67e4	1.22	NO	0.953	10.011	33.269	33.28	1.000	1.000	17.346		0.166	17.3
12	12 1,2,3,6,7,8-HxCDF	1.57e4	1.22	NO	1.01	10.011	33.390	33.41	1.000	1.001	3.2698		0.164	3.27
13	13 2,3,4,6,7,8-HxCDF	4.26e3	1.15	NO	0.991	10.011	34.062	34.09	1.000	1.001	0.95651		0.183	0.957
14	14 1,2,3,7,8,9-HxCDF	1.61e3	1.09	NO	0.951	10.011	35.069	35.09	1.000	1.001	0.42071		0.275	0.421
15	15 1,2,3,4,6,7,8-HpCDF	6.15e4	1.01	NO	0.999	10.011	36.659	36.67	1.000	1.000	18.371		0.244	18.4
16	16 1,2,3,4,7,8,9-HpCDF	9.35e3	0.91	NO	1.12	10.011	38.674	38.70	1.000	1.001	3.2672		0.244	3.27
17	17 OCDF	8.54e4	0.83	NO	0.868	10.011	41.311	41.33	1.000	1.001	34.622		0.181	34.6
18	18 13C-2,3,7,8-TCDD	1.17e6	0.80	NO	1.11	10.011	26.116	26.14	1.029	1.030	202.87	102	0.153	
19	19 13C-1,2,3,7,8-PeCDD	9.44e5	0.63	NO	0.859	10.011	30.727	30.84	1.211	1.215	211.05	106	0.326	
20	20 13C-1,2,3,4,7,8-HxCDD	7.29e5	1.29	NO	0.700	10.011	34.156	34.17	1.013	1.014	204.62	102	0.479	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.27	NO	0.833	10.011	34.284	34.29	1.017	1.017	198.18	99.2	0.402	
22	22 13C-1,2,3,7,8,9-HxCDD	8.07e5	1.26	NO	0.762	10.011	34.554	34.56	1.025	1.025	207.93	104	0.440	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.68e5	1.01	NO	0.650	10.011	37.989	38.05	1.127	1.129	201.75	101	0.895	
24	24 13C-OCDD	1.03e6	0.89	NO	0.539	10.011	40.918	41.02	1.214	1.217	376.38	94.2	0.520	
25	25 13C-2,3,7,8-TCDF	1.61e6	0.78	NO	0.981	10.011	25.452	25.45	1.003	1.003	203.40	102	0.193	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.60	NO	0.792	10.011	29.488	29.59	1.162	1.166	211.26	106	0.394	
27	27 13C-2,3,4,7,8-PeCDF	1.36e6	1.59	NO	0.778	10.011	30.539	30.66	1.204	1.208	216.85	109	0.401	
28	28 13C-1,2,3,4,7,8-HxCDF	9.27e5	0.50	NO	0.954	10.011	33.260	33.27	0.987	0.987	190.75	95.5	0.676	
29	29 13C-1,2,3,6,7,8-HxCDF	9.53e5	0.51	NO	1.01	10.011	33.398	33.39	0.991	0.991	185.87	93.0	0.641	
30	30 13C-2,3,4,6,7,8-HxCDF	8.99e5	0.50	NO	0.921	10.011	34.055	34.06	1.010	1.010	191.61	95.9	0.700	
31	31 13C-1,2,3,7,8,9-HxCDF	8.05e5	0.52	NO	0.803	10.011	35.053	35.07	1.040	1.040	196.57	98.4	0.802	

Dataset: U:\VG12.PRO\Results\201109R1\201109R1-13.qld

Last Altered: Tuesday, November 10, 2020 12:50:36 Pacific Standard Time

Printed: Tuesday, November 10, 2020 12:51:10 Pacific Standard Time

Name: 201109R1\_13, Date: 09-Nov-2020, Time: 17:04:54, ID: 2002171-03 USMPDI-043SG-201009 28.52, Description: USMPDI-043SG-201009

#	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	6.70e5	0.43	NO	0.735	10.011	36.617	36.65	1.086	1.087	178.88	89.5	0.618	
33	13C-1,2,3,4,7,8,9-HpCDF	5.09e5	0.42	NO	0.568	10.011	38.599	38.67	1.145	1.147	175.87	88.0	0.801	
34	13C-OCDF	1.14e6	0.85	NO	0.629	10.011	41.208	41.30	1.222	1.225	354.25	88.7	0.485	
35	37Cl-2,3,7,8-TCDD	5.14e5			1.09	10.011	26.134	26.16	1.030	1.031	90.650	113	0.0512	
36	13C-1,2,3,4-TCDD	1.04e6	0.81	NO	1.00	10.011	25.430	25.37	1.000	1.000	199.78	100	0.170	
37	13C-1,2,3,4-TCDF	1.61e6	0.79	NO	1.00	10.011	24.130	23.88	1.000	1.000	199.78	100	0.190	
38	13C-1,2,3,4,6,9-HxCDF	1.02e6	0.51	NO	1.00	10.011	33.840	33.71	1.000	1.000	199.78	100	0.645	
39	Total Tetra-Dioxins				0.950	10.011	24.620		0.000		2.4446		0.0400	2.59
40	Total Penta-Dioxins				0.885	10.011	29.960		0.000		3.5416		0.0874	3.82
41	Total Hexa-Dioxins				0.915	10.011	33.635		0.000		23.051		0.231	23.1
42	Total Hepta-Dioxins				0.870	10.011	37.640		0.000		168.43		0.648	168
43	Total Tetra-Furans				0.824	10.011	23.610		0.000		10.159		0.0669	11.1
44	1st Func. Penta-Furans				0.963	10.011	27.230		0.000		2.9902		0.0135	2.99
45	Total Penta-Furans				0.963	10.011	29.275		0.000		11.747		0.0566	11.7
46	Total Hexa-Furans				0.991	10.011	33.555		0.000		36.899		0.191	36.9
47	Total Hepta-Furans				0.999	10.011	37.835		0.000		43.131		0.257	43.1

Dataset: U:\VG12.PRO\Results\201109R1\201109R1-13.qld

Last Altered: Tuesday, November 10, 2020 12:50:36 Pacific Standard Time

Printed: Tuesday, November 10, 2020 12:51:10 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201109R1\_13, Date: 09-Nov-2020, Time: 17:04:54, ID: 2002171-03 USMPDI-043SG-201009 28.52, Description: USMPDI-043SG-201009

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	22.37	1.489e4	2.072e4	1.329e3	1.693e3	0.79	NO	3.022e3	0.54202	0.54202	0.0400
2	Total Tetra-Dioxins	22.71	8.480e3	9.221e3	6.200e2	7.245e2	0.86	NO	1.345e3	0.24113	0.24113	0.0400
3	Total Tetra-Dioxins	23.24	3.625e3	4.526e3	2.809e2	3.187e2	0.88	NO	5.996e2	0.10754	0.10754	0.0400
4	Total Tetra-Dioxins	24.09	6.145e3	6.028e3	4.548e2	5.407e2	0.84	NO	9.955e2	0.17854	0.17854	0.0400
5	Total Tetra-Dioxins	24.28	3.575e3	5.404e3	3.279e2	5.008e2	0.65	NO	8.287e2	0.14861	0.14861	0.0400
6	Total Tetra-Dioxins	24.52	5.576e3	6.065e3	3.336e2	3.958e2	0.84	NO	7.294e2	0.13080	0.13080	0.0400
7	Total Tetra-Dioxins	24.71	2.113e3	2.141e3	1.344e2	1.737e2	0.77	NO	3.081e2	0.055258	0.055258	0.0400
8	Total Tetra-Dioxins	25.02	3.144e3	2.278e3	1.083e2	1.298e2	0.83	NO	2.381e2	0.042691	0.042691	0.0400
9	Total Tetra-Dioxins	25.09	3.901e3	3.801e3	1.688e2	2.158e2	0.78	NO	3.846e2	0.068972	0.068972	0.0400
10	Total Tetra-Dioxins	25.88	3.670e4	3.741e4	2.234e3	2.602e3	0.86	NO	4.836e3	0.86735	0.86735	0.0400
11	2,3,7,8-TCDD	26.16	5.650e3	1.666e4	3.407e2	9.901e2	0.34	YES	1.331e3	0.00000	0.14047	0.0400
12	Total Tetra-Dioxins	26.47	2.784e3	3.367e3	1.543e2	1.896e2	0.81	NO	3.439e2	0.061676	0.061676	0.0400

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	28.60	2.141e4	2.859e4	1.641e3	2.403e3	0.68	NO	4.043e3	0.96602	0.96602	0.0874
2	Total Penta-Dioxins	29.07	1.169e4	1.636e4	5.823e2	9.192e2	0.63	NO	1.502e3	0.35873	0.35873	0.0874
3	Total Penta-Dioxins	29.61	1.105e4	1.819e4	7.632e2	1.075e3	0.71	NO	1.839e3	0.43926	0.43926	0.0874
4	Total Penta-Dioxins	29.77	1.327e4	1.771e4	7.121e2	1.052e3	0.68	NO	1.764e3	0.42150	0.42150	0.0874
5	Total Penta-Dioxins	29.81	1.153e4	1.504e4	4.895e2	6.843e2	0.72	NO	0.000e0	0.00000	0.28045	0.0874
6	Total Penta-Dioxins	30.07	9.852e3	1.948e4	7.775e2	1.398e3	0.56	NO	2.176e3	0.51986	0.51986	0.0874
7	Total Penta-Dioxins	30.37	3.357e3	3.977e3	1.853e2	2.745e2	0.68	NO	4.598e2	0.10986	0.10986	0.0874
8	1,2,3,7,8-PeCDD	30.86	1.369e4	2.242e4	7.300e2	1.115e3	0.66	NO	1.845e3	0.44068	0.44068	0.0874
9	Total Penta-Dioxins	30.94	4.455e3	6.544e3	2.478e2	3.514e2	0.71	NO	5.992e2	0.14315	0.14315	0.0874
10	Total Penta-Dioxins	31.20	2.793e3	5.599e3	2.506e2	3.462e2	0.72	NO	5.968e2	0.14257	0.14257	0.0874

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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	32.54	2.781e5	2.371e5	1.544e4	1.255e4	1.23	NO	2.799e4	7.7175	7.7175	0.231
2	Total Hexa-Dioxins	33.16	2.910e4	2.797e4	1.898e3	1.750e3	1.08	NO	3.648e3	1.0057	1.0057	0.231
3	Total Hexa-Dioxins	33.43	2.161e5	1.715e5	1.656e4	1.361e4	1.22	NO	3.017e4	8.3186	8.3186	0.231
4	Total Hexa-Dioxins	33.53	3.913e4	2.954e4	2.276e3	1.854e3	1.23	NO	4.130e3	1.1385	1.1385	0.231
5	1,2,3,4,7,8-HxCDD	34.17	1.869e4	1.838e4	1.304e3	1.015e3	1.28	NO	2.319e3	0.62426	0.62426	0.215
6	1,2,3,6,7,8-HxCDD	34.30	7.603e4	5.543e4	5.337e3	3.990e3	1.34	NO	9.327e3	2.4234	2.4234	0.218
7	Total Hexa-Dioxins	34.45	1.490e4	1.173e4	1.058e3	9.020e2	1.17	NO	1.960e3	0.54040	0.54040	0.231
8	1,2,3,7,8,9-HxCDD	34.56	3.257e4	2.857e4	2.615e3	2.226e3	1.18	NO	4.841e3	1.2825	1.2825	0.232

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.04	1.669e6	1.671e6	1.573e5	1.531e5	1.03	NO	3.104e5	106.79	106.79	0.648
2	1,2,3,4,6,7,8-HpCDD	38.06	1.167e6	1.102e6	9.093e4	8.824e4	1.03	NO	1.792e5	61.646	61.646	0.648

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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	20.12	6.841e3	9.125e3	6.052e2	7.382e2	0.82	NO	1.343e3	0.20225	0.20225	0.0669
2 Total Tetra-Furans	20.67	4.783e3	7.762e3	4.361e2	6.078e2	0.72	NO	1.044e3	0.15715	0.15715	0.0669
3 Total Tetra-Furans	21.47	3.037e4	5.001e4	3.107e3	4.636e3	0.67	NO	7.743e3	1.1658	1.1658	0.0669
4 Total Tetra-Furans	22.40	3.211e4	3.883e4	3.266e3	4.003e3	0.82	NO	7.270e3	1.0944	1.0944	0.0669
5 Total Tetra-Furans	22.88	1.655e4	1.818e4	1.252e3	1.529e3	0.82	NO	2.781e3	0.41867	0.41867	0.0669
6 Total Tetra-Furans	23.01	4.629e3	1.006e4	4.210e2	6.216e2	0.68	NO	1.043e3	0.15696	0.15696	0.0669
7 Total Tetra-Furans	23.22	1.272e4	1.396e4	8.751e2	1.061e3	0.82	NO	1.937e3	0.29154	0.29154	0.0669
8 Total Tetra-Furans	23.63	4.384e3	5.961e3	2.633e2	4.004e2	0.66	NO	6.637e2	0.099915	0.099915	0.0669
9 Total Tetra-Furans	23.75	4.828e3	7.550e3	4.142e2	5.705e2	0.73	NO	9.847e2	0.14825	0.14825	0.0669
10 Total Tetra-Furans	23.97	1.532e4	1.650e4	9.291e2	1.054e3	0.88	NO	0.000e0	0.00000	0.29856	0.0669
11 Total Tetra-Furans	24.00	1.987e4	2.420e4	1.899e3	2.400e3	0.79	NO	0.000e0	0.00000	0.64732	0.0669
12 Total Tetra-Furans	24.46	7.958e4	1.139e5	6.010e3	8.283e3	0.73	NO	1.429e4	2.1517	2.1517	0.0669
13 Total Tetra-Furans	24.78	7.300e3	1.053e4	5.739e2	6.867e2	0.84	NO	1.261e3	0.18978	0.18978	0.0669
14 Total Tetra-Furans	25.18	3.924e3	6.407e3	2.708e2	3.142e2	0.86	NO	5.850e2	0.088073	0.088073	0.0669
15 Total Tetra-Furans	25.34	1.624e4	2.017e4	9.613e2	1.241e3	0.77	NO	2.202e3	0.33153	0.33153	0.0669
16 2,3,7,8-TCDF	25.48	1.226e5	1.779e5	8.647e3	1.122e4	0.77	NO	1.986e4	2.9906	2.9906	0.0669
17 Total Tetra-Furans	25.70	4.372e3	5.364e3	1.814e2	2.424e2	0.75	NO	4.238e2	0.063805	0.063805	0.0669
18 Total Tetra-Furans	25.77	1.365e4	1.911e4	8.810e2	1.121e3	0.79	NO	2.002e3	0.30138	0.30138	0.0669
19 Total Tetra-Furans	26.97	5.982e3	6.332e3	3.803e2	4.599e2	0.83	NO	8.402e2	0.12649	0.12649	0.0669
20 Total Tetra-Furans	27.35	9.515e3	1.237e4	5.429e2	6.598e2	0.82	NO	1.203e3	0.18107	0.18107	0.0669

**Penta-Furans function 1**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1st Func. Penta-Furans	26.99	1.846e5	1.209e5	1.210e4	7.417e3	1.63	NO	1.951e4	2.9902	2.9902	0.0135



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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	28.44	1.717e4	9.297e3	1.377e3	8.698e2	1.58	NO	2.246e3	0.34423	0.34423	0.0566
2 Total Penta-Furans	28.62	1.565e5	9.492e4	1.051e4	6.941e3	1.51	NO	1.745e4	2.6746	2.6746	0.0566
3 Total Penta-Furans	29.25	3.903e4	2.242e4	2.189e3	1.483e3	1.48	NO	3.673e3	0.56277	0.56277	0.0566
4 Total Penta-Furans	29.41	2.934e4	1.862e4	1.471e3	9.473e2	1.55	NO	2.419e3	0.37059	0.37059	0.0566
5 1,2,3,7,8-PeCDF	29.61	2.970e5	1.754e5	1.675e4	1.053e4	1.59	NO	2.727e4	4.1966	4.1966	0.0592
6 Total Penta-Furans	29.85	8.457e4	5.984e4	4.963e3	3.155e3	1.57	NO	8.118e3	1.2439	1.2439	0.0566
7 Total Penta-Furans	30.47	7.841e3	5.765e3	4.055e2	3.011e2	1.35	NO	7.065e2	0.10826	0.10826	0.0566
8 2,3,4,7,8-PeCDF	30.67	1.752e5	1.142e5	9.452e3	6.045e3	1.56	NO	1.550e4	2.1306	2.1306	0.0487
9 Total Penta-Furans	31.58	6.753e3	5.130e3	4.691e2	2.823e2	1.66	NO	7.514e2	0.11513	0.11513	0.0566

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Furans	32.01	7.898e4	6.025e4	4.120e3	3.140e3	1.31	NO	7.260e3	1.6344	1.6344	0.191
2 Total Hexa-Furans	32.18	2.479e5	2.157e5	1.353e4	1.136e4	1.19	NO	2.490e4	5.6057	5.6057	0.191
3 Total Hexa-Furans	32.59	6.484e3	3.869e3	2.863e2	2.171e2	1.32	NO	5.034e2	0.11333	0.11333	0.191
4 Total Hexa-Furans	32.82	2.737e5	2.355e5	1.642e4	1.339e4	1.23	NO	2.981e4	6.7102	6.7102	0.191
5 Total Hexa-Furans	33.16	7.400e3	5.965e3	3.621e2	2.568e2	1.41	NO	6.189e2	0.13933	0.13933	0.191
6 1,2,3,4,7,8-HxCDF	33.28	7.084e5	5.776e5	4.213e4	3.459e4	1.22	NO	7.673e4	17.346	17.346	0.166
7 1,2,3,6,7,8-HxCDF	33.41	1.391e5	1.021e5	8.649e3	7.065e3	1.22	NO	1.571e4	3.2698	3.2698	0.164
8 2,3,4,6,7,8-HxCDF	34.09	3.106e4	2.858e4	2.277e3	1.987e3	1.15	NO	4.265e3	0.95651	0.95651	0.183
9 1,2,3,7,8,9-HxCDF	35.09	2.007e4	1.897e4	8.404e2	7.701e2	1.09	NO	1.611e3	0.42071	0.42071	0.275
10 Total Hexa-Furans	35.12	2.714e4	2.726e4	1.615e3	1.508e3	1.07	NO	3.124e3	0.70323	0.70323	0.191

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	36.67	3.363e5	3.392e5	3.099e4	3.056e4	1.01	NO	6.154e4	18.371	18.371	0.244
2 Total Hepta-Furans	37.38	3.403e5	3.482e5	3.153e4	3.179e4	0.99	NO	6.332e4	21.493	21.493	0.257
3 1,2,3,4,7,8,9-HpCDF	38.70	5.939e4	6.298e4	4.455e3	4.893e3	0.91	NO	9.348e3	3.2672	3.2672	0.244

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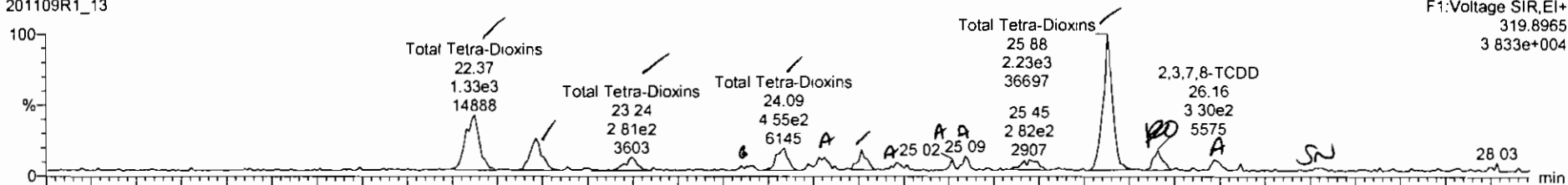
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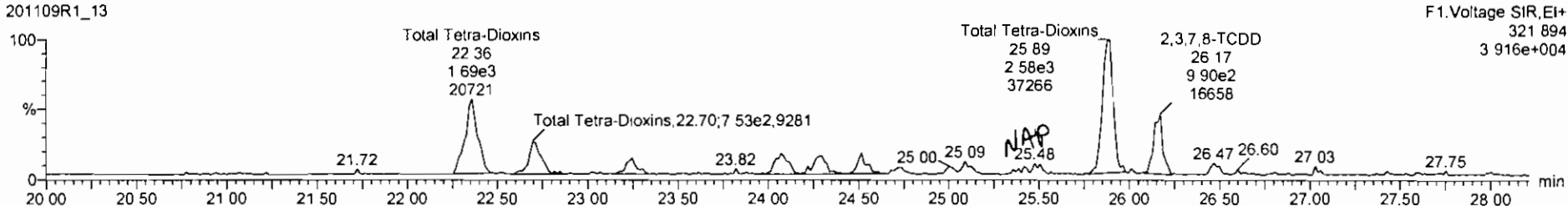
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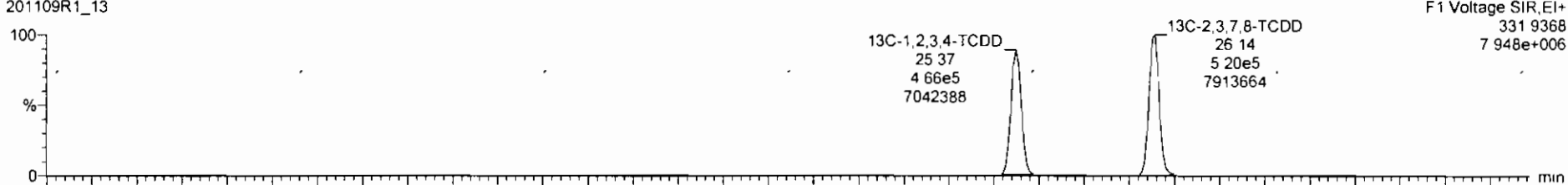


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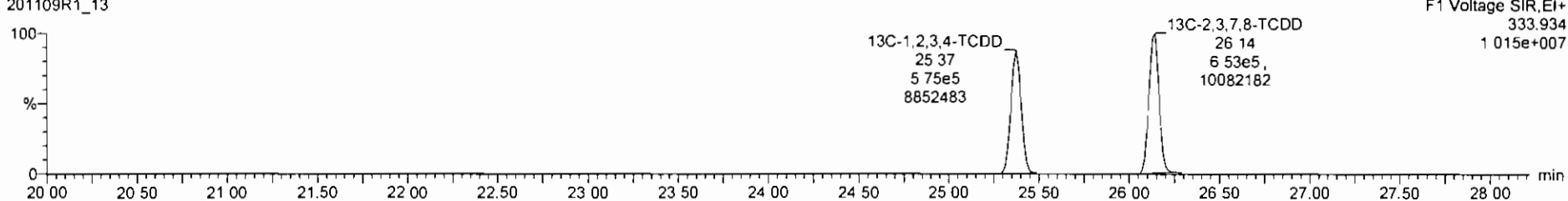


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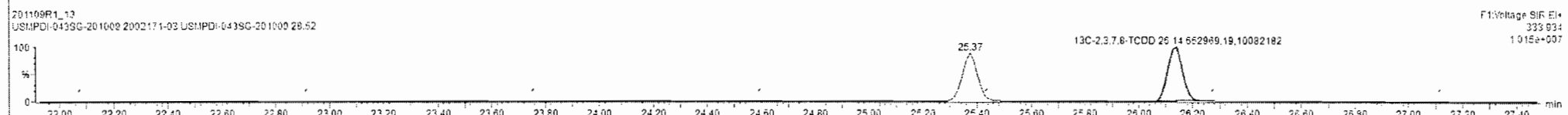
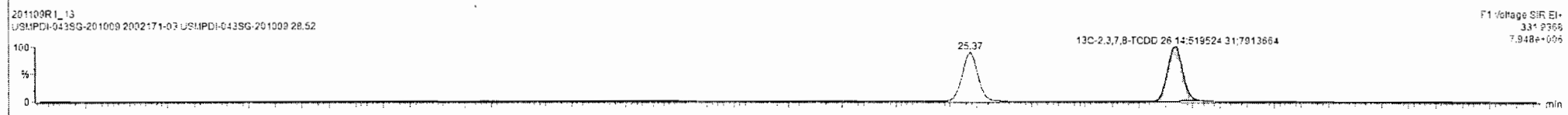
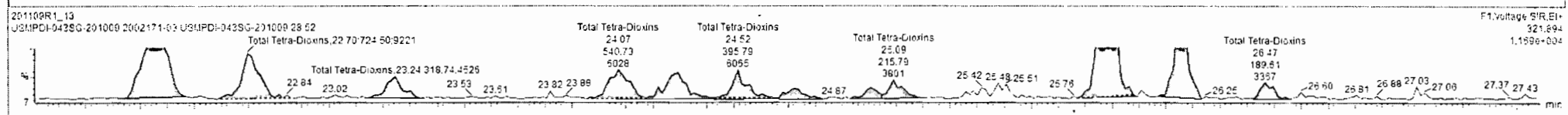
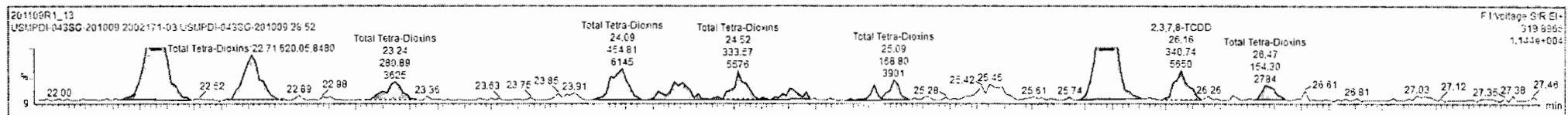


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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.011			2.44	0.0430	2.59	
40 Total Penta-Dioxins				0.9855	10.011			2.04	0.0874	2.54	
41 Total Hexa-Dioxins				0.8145	10.011			23.0	0.231	23.2	

Name	RT1	m1 Reso	m2 Reso	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.37	1.322e3	1.693e3	0.79	NO	0.54202	0.54202
2 Total Tetra-Dioxins	22.71	6.200e2	7.245e2	0.86	NO	0.74113	0.74113
3 Total Tetra-Dioxins	23.24	2.809e2	3.187e2	0.96	NO	0.10754	0.10754
4 Total Tetra-Dioxins	24.09	4.548e2	5.407e2	0.84	NO	0.17854	0.17854
5 Total Tetra-Dioxins	24.28	3.275e2	5.008e2	0.65	NO	0.14861	0.14861
6 Total Tetra-Dioxins	24.52	3.335e2	3.958e2	0.84	NO	0.13080	0.13080
7 Total Tetra-Dioxins	24.71	1.344e2	1.737e2	0.77	NO	0.05258	0.05258
8 Total Tetra-Dioxins	25.02	1.082e2	1.299e2	0.83	NO	0.042691	0.042691
9 Total Tetra-Dioxins	25.09	1.688e2	2.158e2	0.78	NO	0.068972	0.068972
10 Total Tetra-Dioxins	25.28	2.234e2	2.602e2	0.86	NO	0.08735	0.08735
11 2,3,7,8-TCDD	26.16	3.407e2	9.901e2	0.74	YES	0.11047	0.00000
12 Total Tetra-Dioxins	26.47	1.443e2	1.696e2	0.81	NO	0.081575	0.081575



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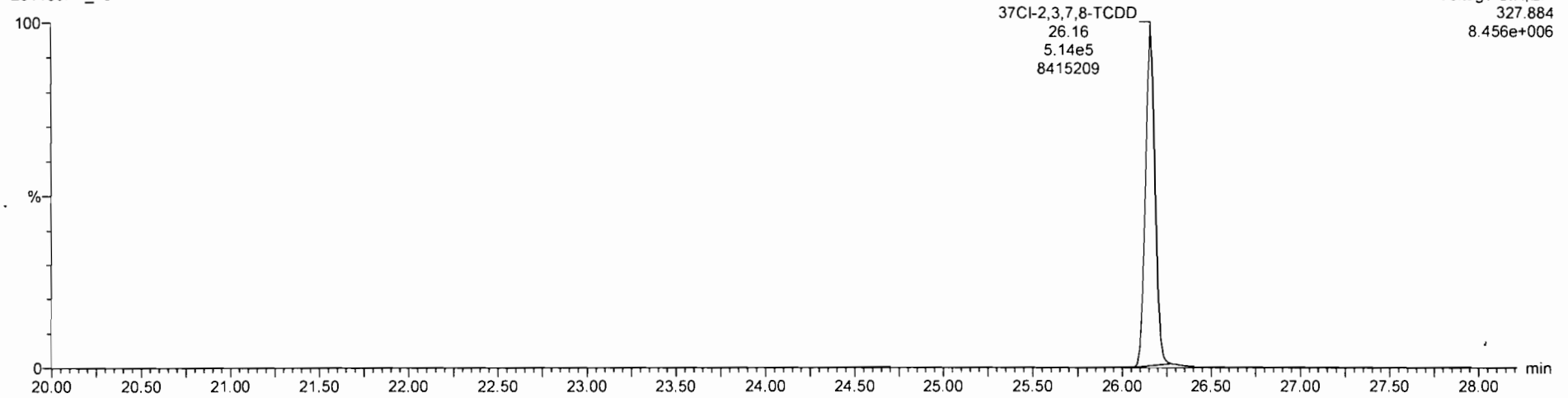
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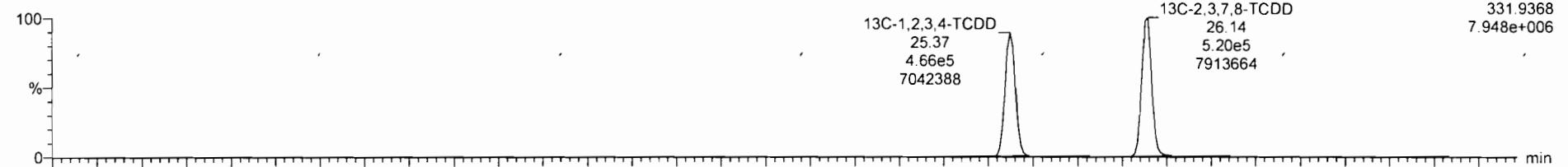
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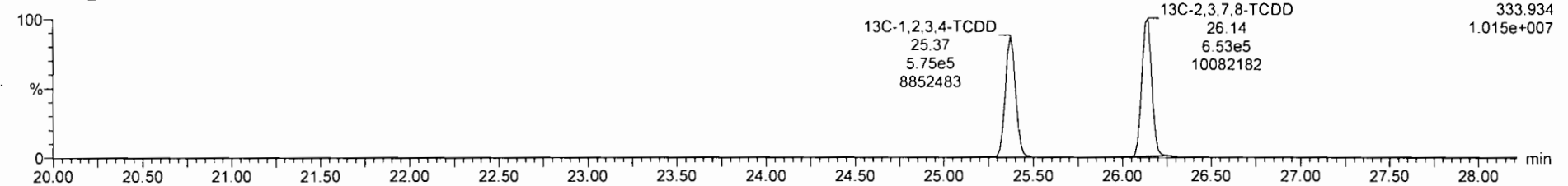


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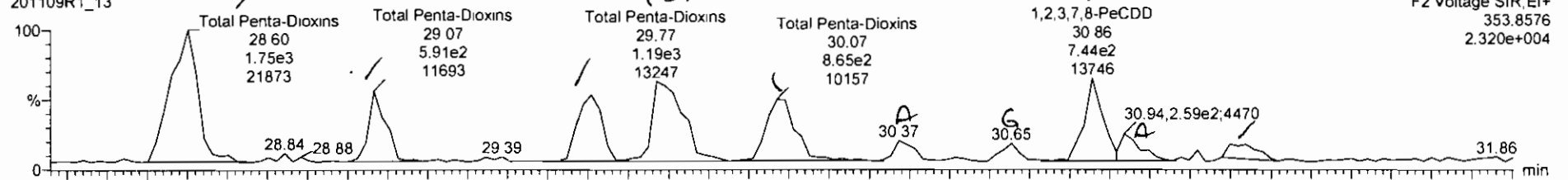
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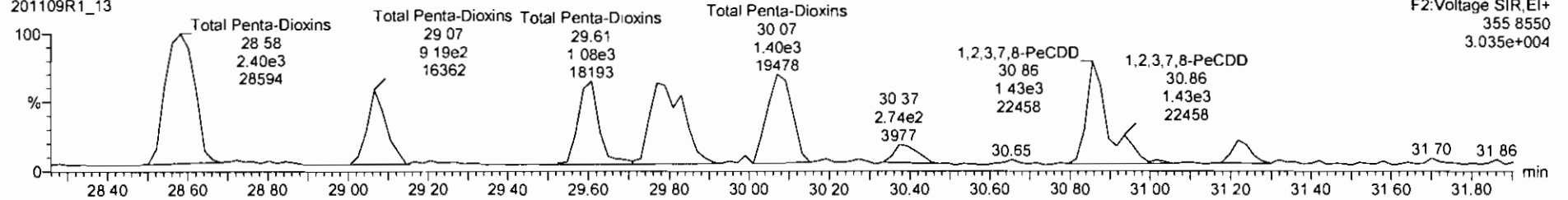
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353.8576  
2.320e+004

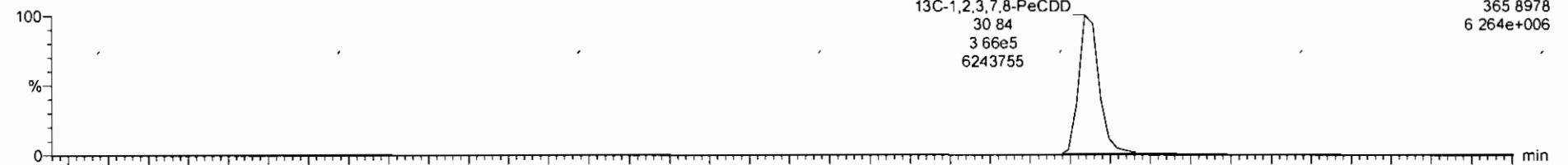
201109R1\_13



F2: Voltage SIR, EI+  
355.8550  
3.035e+004

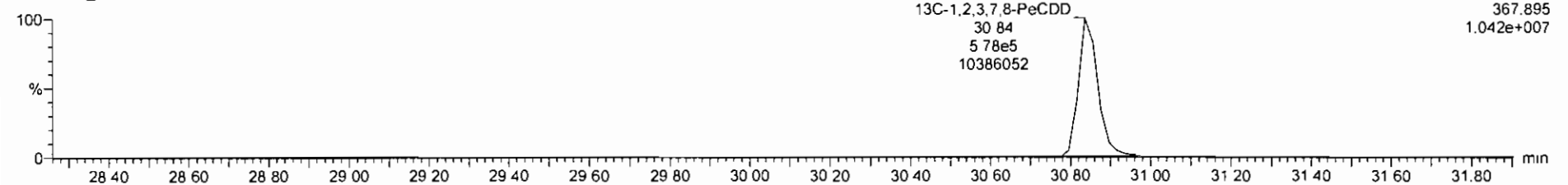
13C-1,2,3,7,8-PeCDD

201109R1\_13

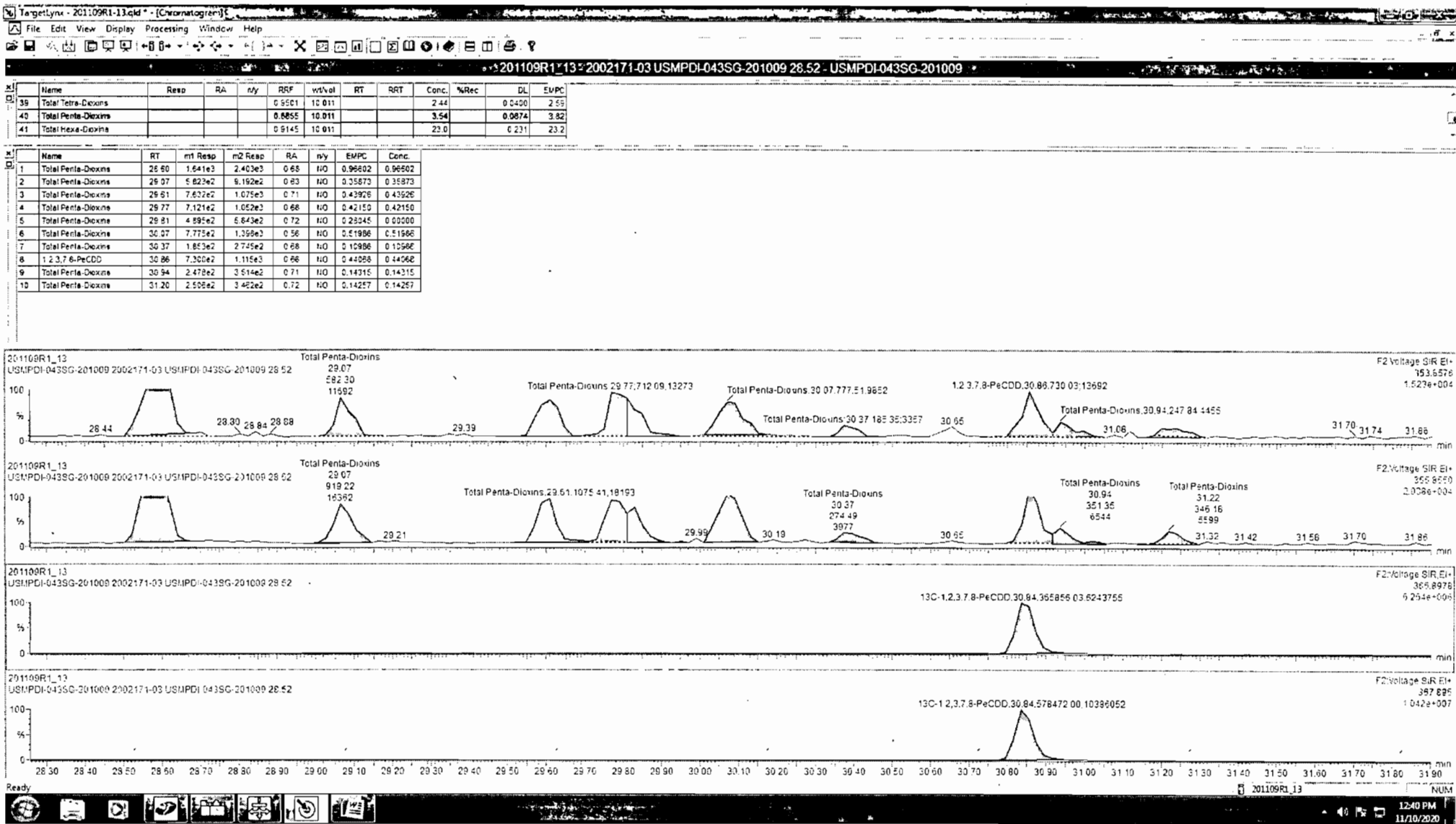


F2 Voltage SIR, EI+  
365.8978  
6.264e+006

201109R1\_13



F2: Voltage SIR, EI+  
367.895  
1.042e+007



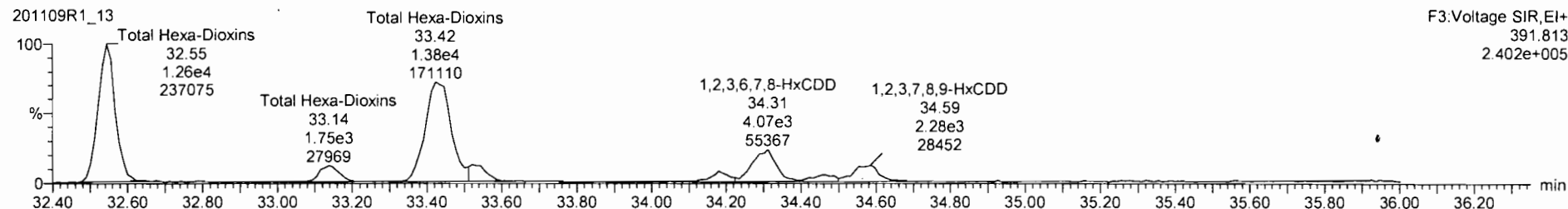
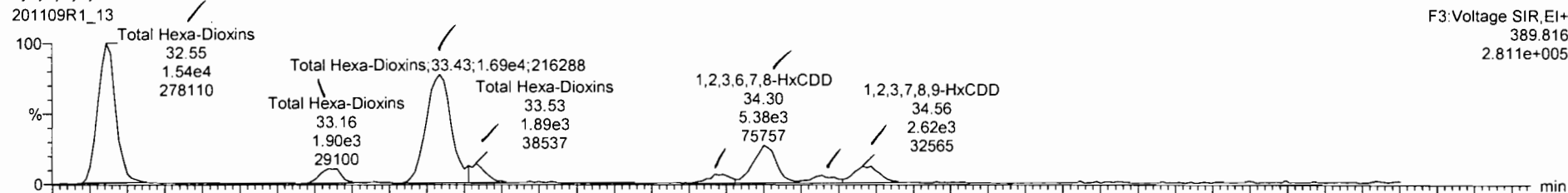
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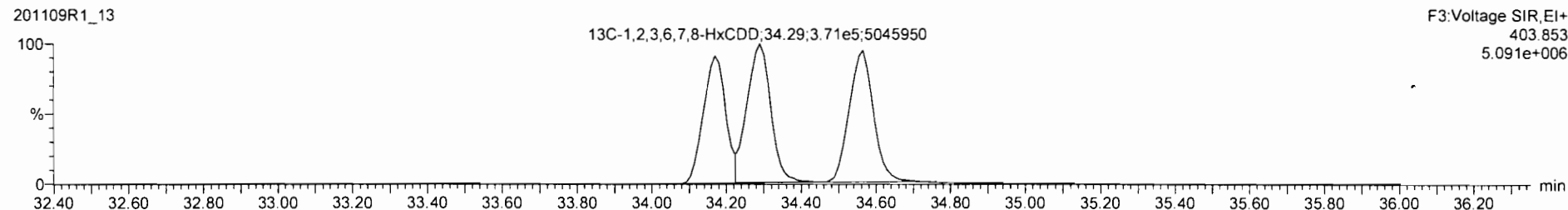
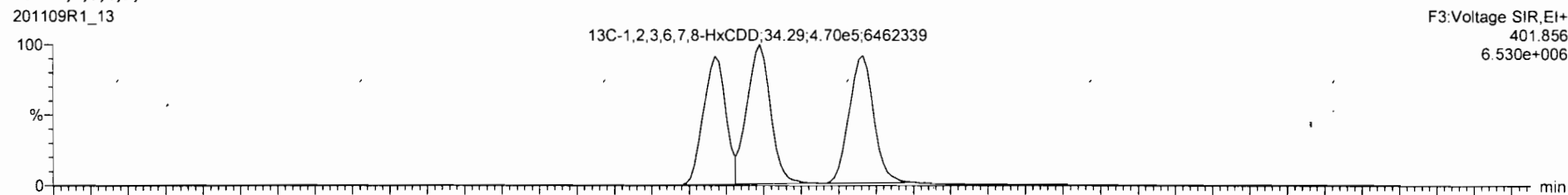
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Name: 201109R1\_13, Date: 09-Nov-2020, Time: 17:04:54, ID: 2002171-03 USMPDI-043SG-201009 28.52, Description: USMPDI-043SG-201009

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

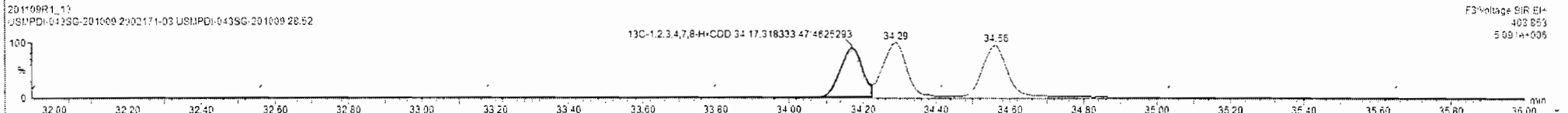
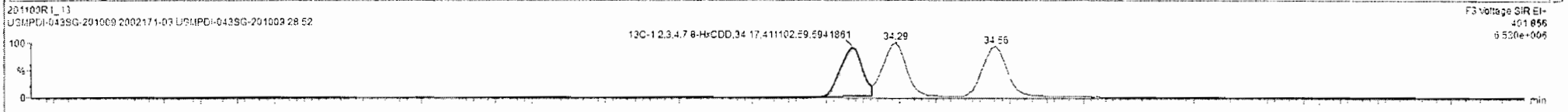
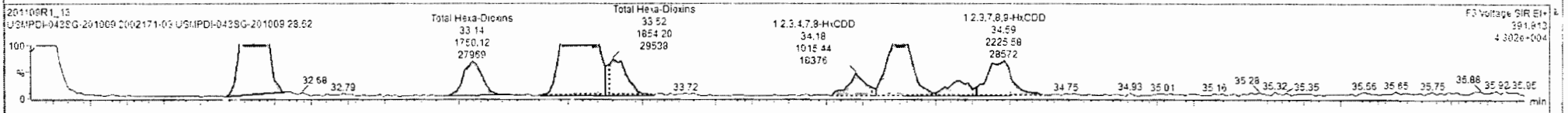
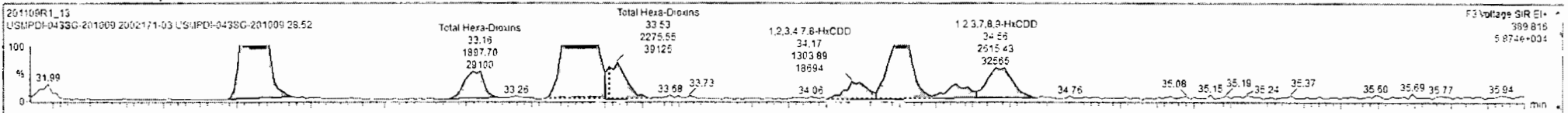


**13C-1,2,3,4,7,8-HxCDD**



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9551	10.011			2.44		0.0400	2.53
40 Total Penta-Dioxins				0.6855	10.011			3.54		0.0874	3.82
41 Total Hexa-Dioxins				0.6145	10.011			23.1		0.231	23.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.54	1.5444	1.255e4	1.22	NO	7.7175	7.7175
2 Total Hexa-Dioxins	33.16	1.899e3	1.750e3	1.06	NO	1.0057	1.0057
3 Total Hexa-Dioxins	33.43	1.659e4	1.361e4	1.22	NO	8.3186	8.3186
4 Total Hexa-Dioxins	33.53	2.276e3	1.654e2	1.23	NO	1.1385	1.1385
5 1,2,3,4,7,8-HxCDD	34.17	1.354e3	1.019e2	1.26	NO	0.82426	0.82426
6 1,2,3,6,7,8-HxCDD	34.30	5.337e3	3.990e2	1.34	NO	2.4234	2.4234
7 Total Hexa-Dioxins	34.45	1.059e3	9.020e2	1.17	NO	0.54040	0.54040
8 1,2,3,7,8,9-HxCDD	34.56	2.615e3	2.225e3	1.18	NO	1.2825	1.2825





Dataset: Untitled

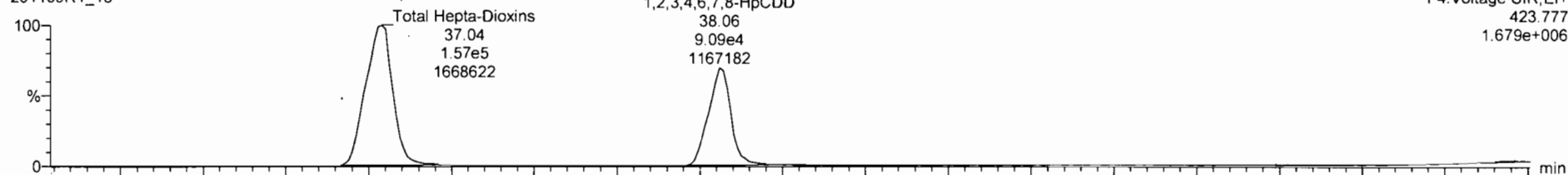
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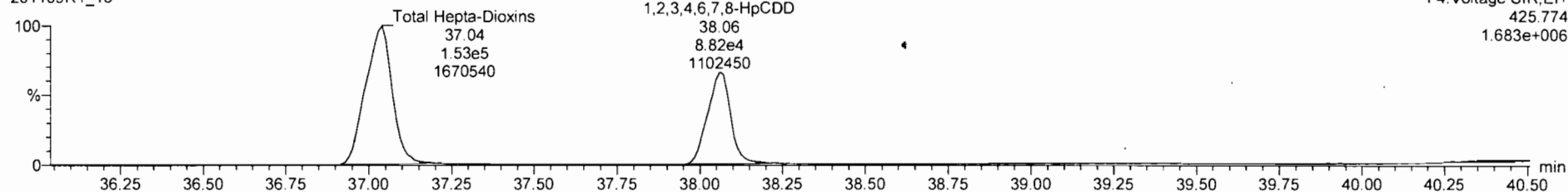
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**1,2,3,4,6,7,8-HpCDD**

201109R1\_13

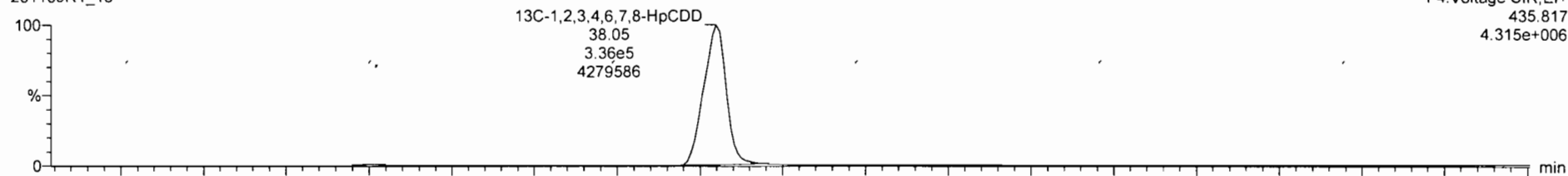


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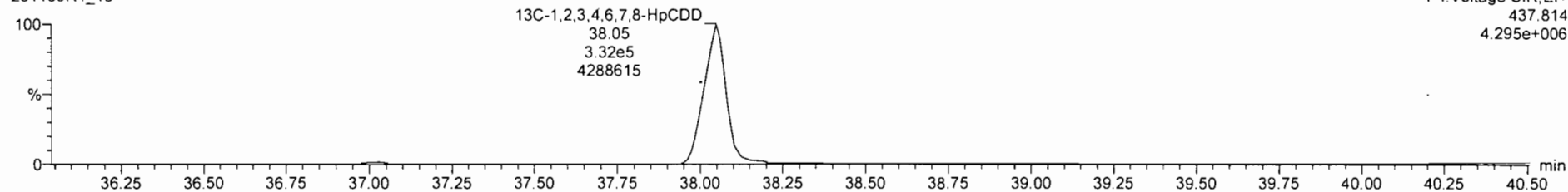


**13C-1,2,3,4,6,7,8-HpCDD**

201109R1\_13



201109R1\_13



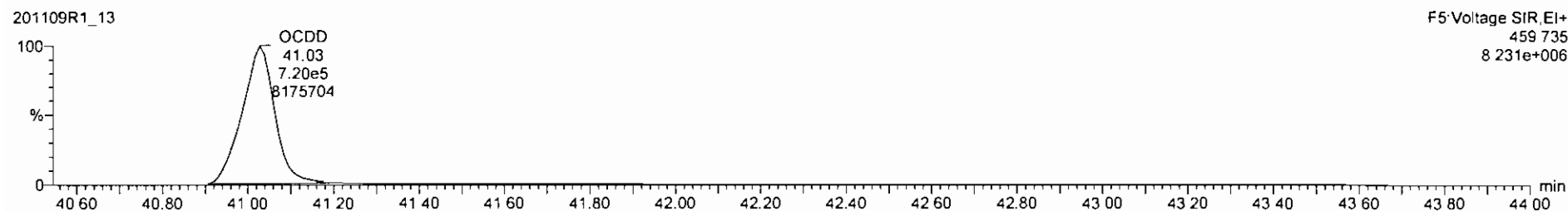
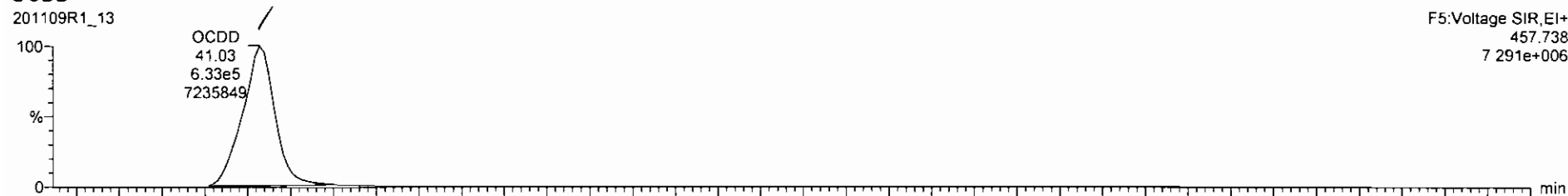
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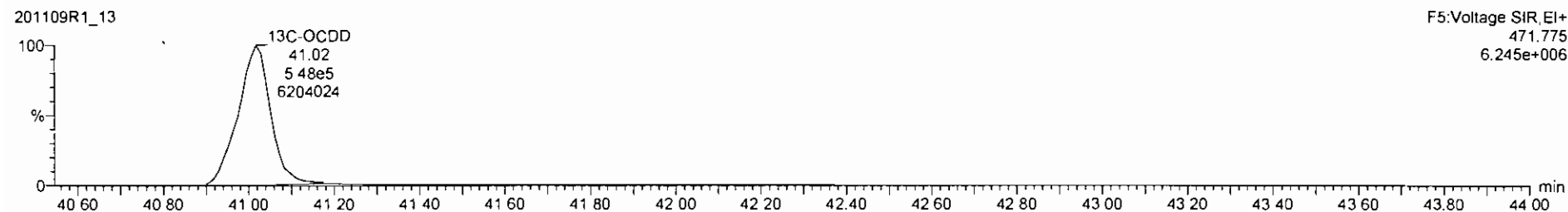
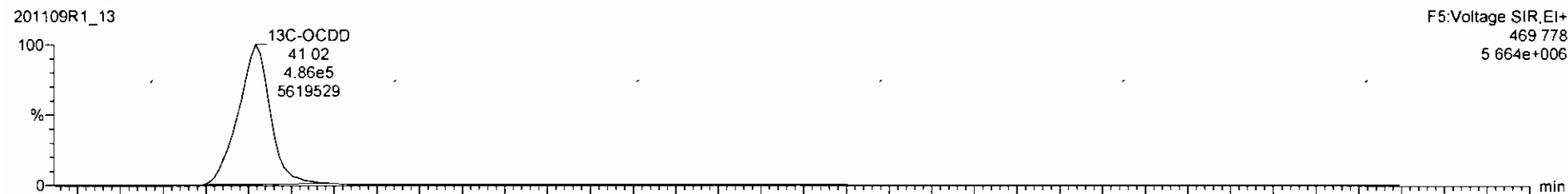
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Name: 201109R1\_13, Date: 09-Nov-2020, Time: 17:04:54, ID: 2002171-03 USMPDI-043SG-201009 28.52, Description: USMPDI-043SG-201009

**OCDD**



**13C-OCDD**



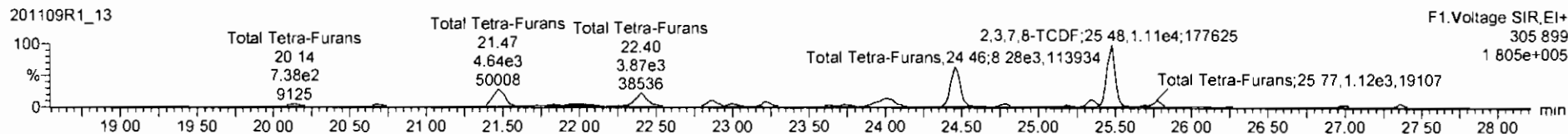
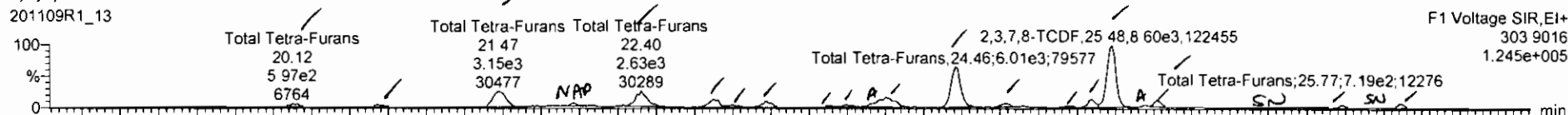
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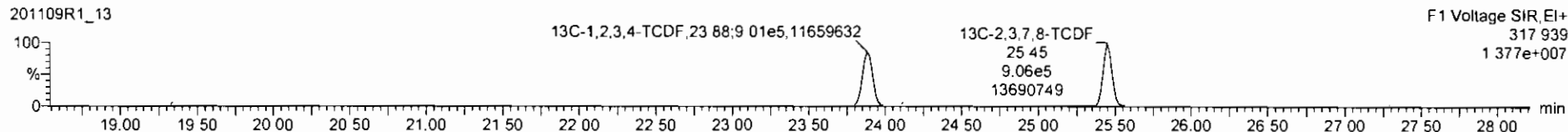
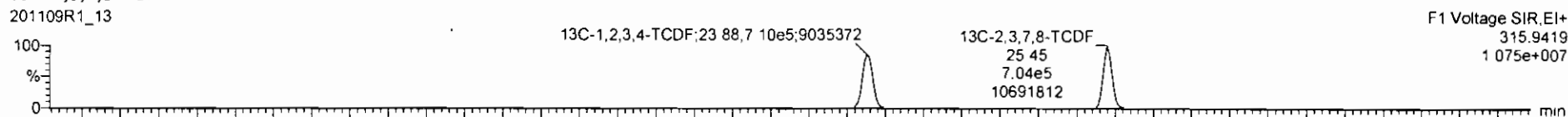
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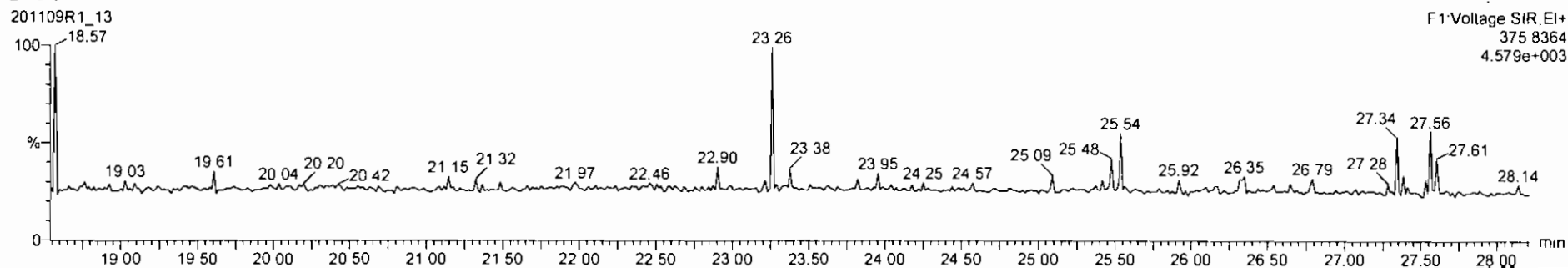
2,3,7,8-TCDF



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

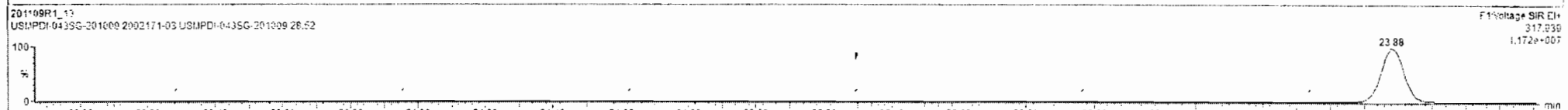
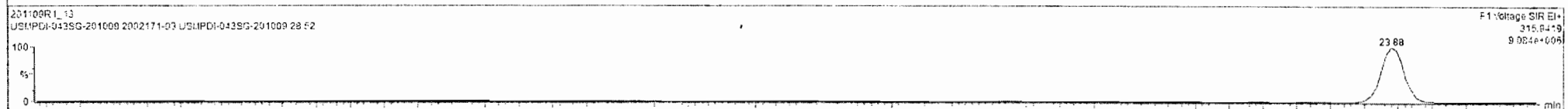
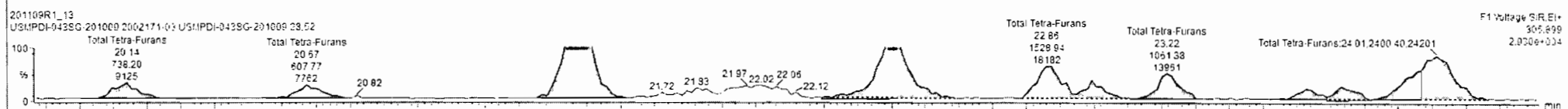
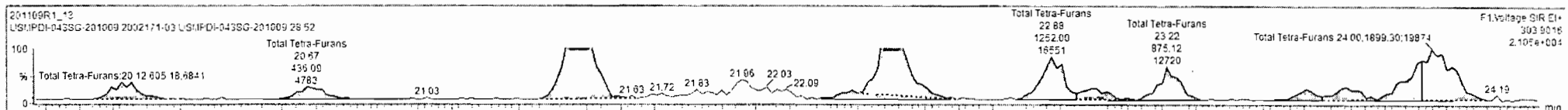


DPE1



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.011			6.57		0.0669	10.9
44 1st Func Penta-Furans				0.9626	10.011			2.99		0.0135	2.63
45 Total Penta-Furans				0.9626	10.011			11.6		0.0566	11.8

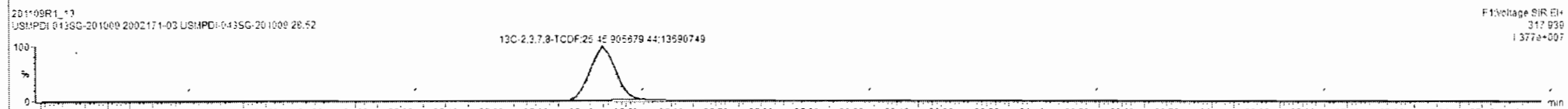
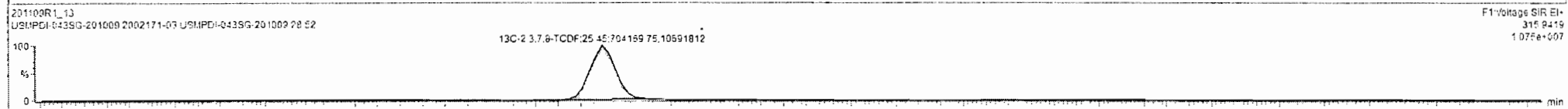
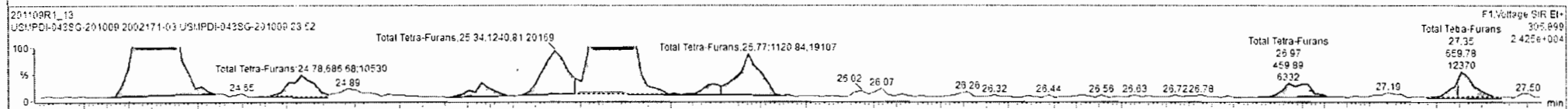
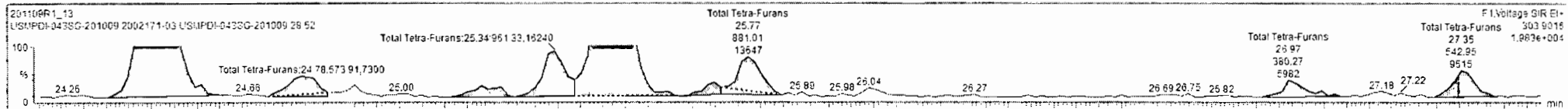
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.12	6.052e2	7.382e2	0.82	HO	0.20225	0.20225
2 Total Tetra-Furans	20.67	4.361e2	6.076e2	0.72	HO	0.15715	0.15715
3 Total Tetra-Furans	21.47	3.107e3	4.836e3	0.67	HO	1.1658	1.1658
4 Total Tetra-Furans	22.40	3.266e3	4.003e3	0.82	HO	1.0944	1.0944
5 Total Tetra-Furans	22.86	1.252e2	1.529e3	0.82	HO	0.41867	0.41867
6 Total Tetra-Furans	23.01	4.210e2	6.216e2	0.88	HO	0.15696	0.15696
7 Total Tetra-Furans	23.22	8.751e2	1.051e3	0.82	HO	0.29154	0.29154
8 Total Tetra-Furans	23.63	2.833e2	4.004e2	0.66	HO	0.099915	0.099915
9 Total Tetra-Furans	23.75	4.142e2	5.705e2	0.73	HO	0.14825	0.14825
10 Total Tetra-Furans	23.97	9.291e2	1.054e3	0.88	HO	0.29566	0.29566
11 Total Tetra-Furans	24.00	1.899e3	2.400e3	0.79	HO	0.64732	0.64732
12 Total Tetra-Furans	24.46	6.010e3	8.283e3	0.73	HO	2.1517	2.1517
13 Total Tetra-Furans	24.78	4.912e2	6.052e2	0.81	HO	0.16513	0.16513
14 Total Tetra-Furans	25.18	2.708e2	3.142e2	0.86	HO	0.068073	0.068073



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Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EVPC
43 Total Tetra-Furans	0.8243	10.011						10.2	0.0969	0.0969	11.1
44 1st Func. Penta-Furans	0.9628	10.011						2.99	0.0135	2.99	
45 Total Penta-Furans	0.9628	10.011						11.6	0.0686	0.0686	11.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EVPC	Conc.
8 Total Tetra-Furans	23.62	2.633e2	4.004e2	0.86	NO	0.099915	0.099915
9 Total Tetra-Furans	23.75	4.142e2	5.705e2	0.73	NO	0.14525	0.14825
10 Total Tetra-Furans	23.97	9.291e2	1.054e3	0.86	NO	0.25856	0.05000
11 Total Tetra-Furans	24.00	1.895e3	2.400e3	0.79	NO	0.64732	0.05000
12 Total Tetra-Furans	24.46	6.010e3	8.283e2	0.73	NO	2.1517	2.1517
13 Total Tetra-Furans	24.78	5.739e2	5.667e2	0.84	NO	0.18978	0.18978
14 Total Tetra-Furans	25.18	2.728e2	3.142e2	0.86	NO	0.088073	0.088073
15 Total Tetra-Furans	25.34	9.613e2	1.241e3	0.77	NO	0.33153	0.33153
16 2,3,7,8-TCDF	25.48	8.647e3	1.122e4	0.77	NO	2.9506	2.9506
17 Total Tetra-Furans	25.70	1.811e2	2.424e2	0.75	NO	0.023805	0.063805
18 Total Tetra-Furans	25.77	8.810e2	1.121e3	0.79	NO	0.30138	0.30138
19 Total Tetra-Furans	26.97	3.803e2	4.596e2	0.83	NO	0.12649	0.12649
20 Total Tetra-Furans	27.35	5.429e2	5.596e2	0.82	NO	0.18107	0.18107



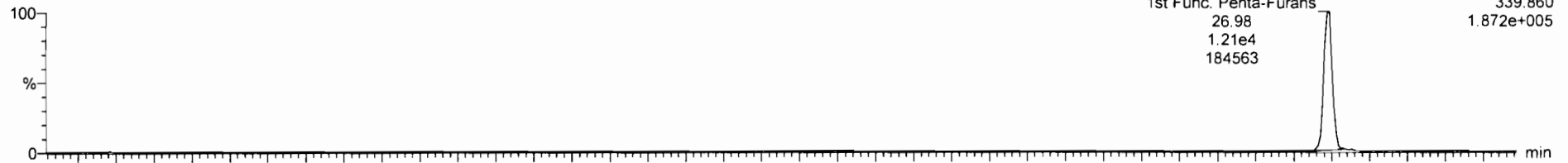
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Printed: Tuesday, November 10, 2020 7:12:18 AM Pacific Standard Time

Name: 201109R1\_13, Date: 09-Nov-2020, Time: 17:04:54, ID: 2002171-03 USMPDI-043SG-201009 28.52, Description: USMPDI-043SG-201009

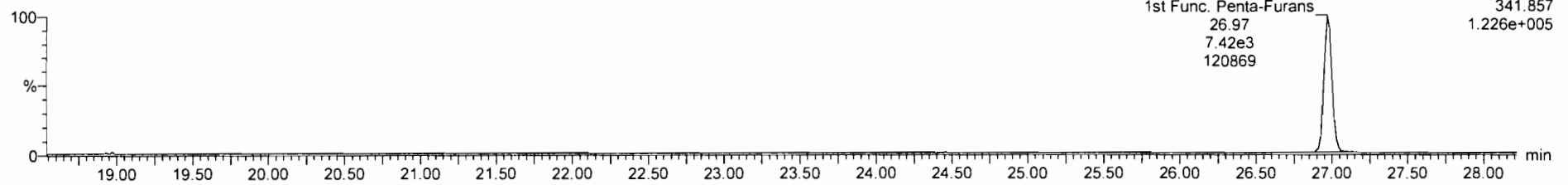
1st Func. Penta-Furans

201109R1\_13



1st Func. Penta-Furans	F1:Voltage SIR,EI+
26.98	339.860
1.21e4	1.872e+005
184563	

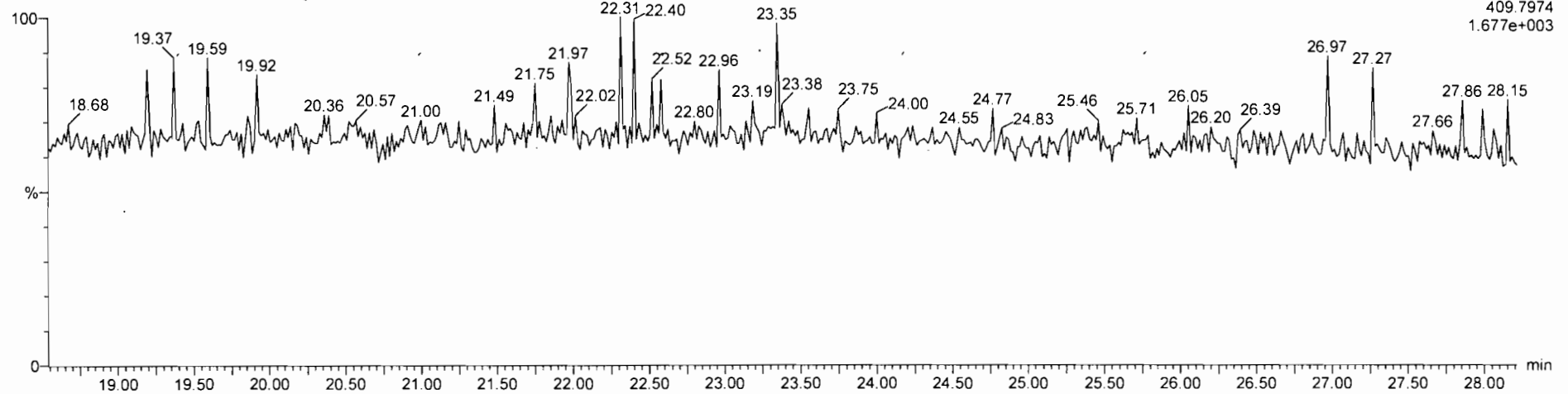
201109R1\_13



1st Func. Penta-Furans	F1:Voltage SIR,EI+
26.97	341.857
7.42e3	1.226e+005
120869	

DPE6

201109R1\_13



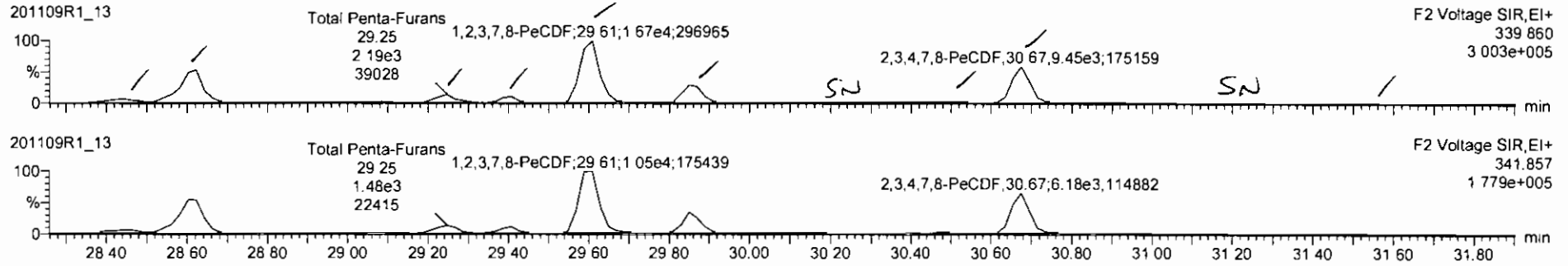
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Dataset: Untitled

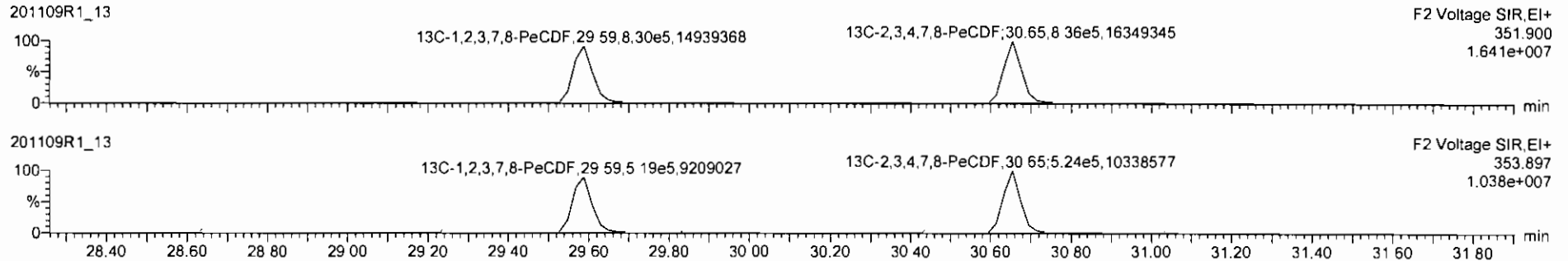
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Name: 201109R1\_13, Date: 09-Nov-2020, Time: 17:04:54, ID: 2002171-03 USMPDI-043SG-201009 28.52, Description: USMPDI-043SG-201009

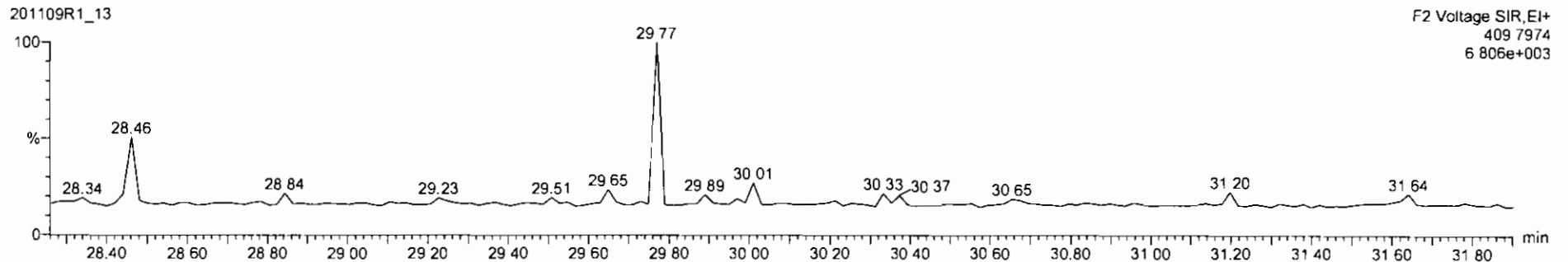
**1,2,3,7,8-PeCDF**

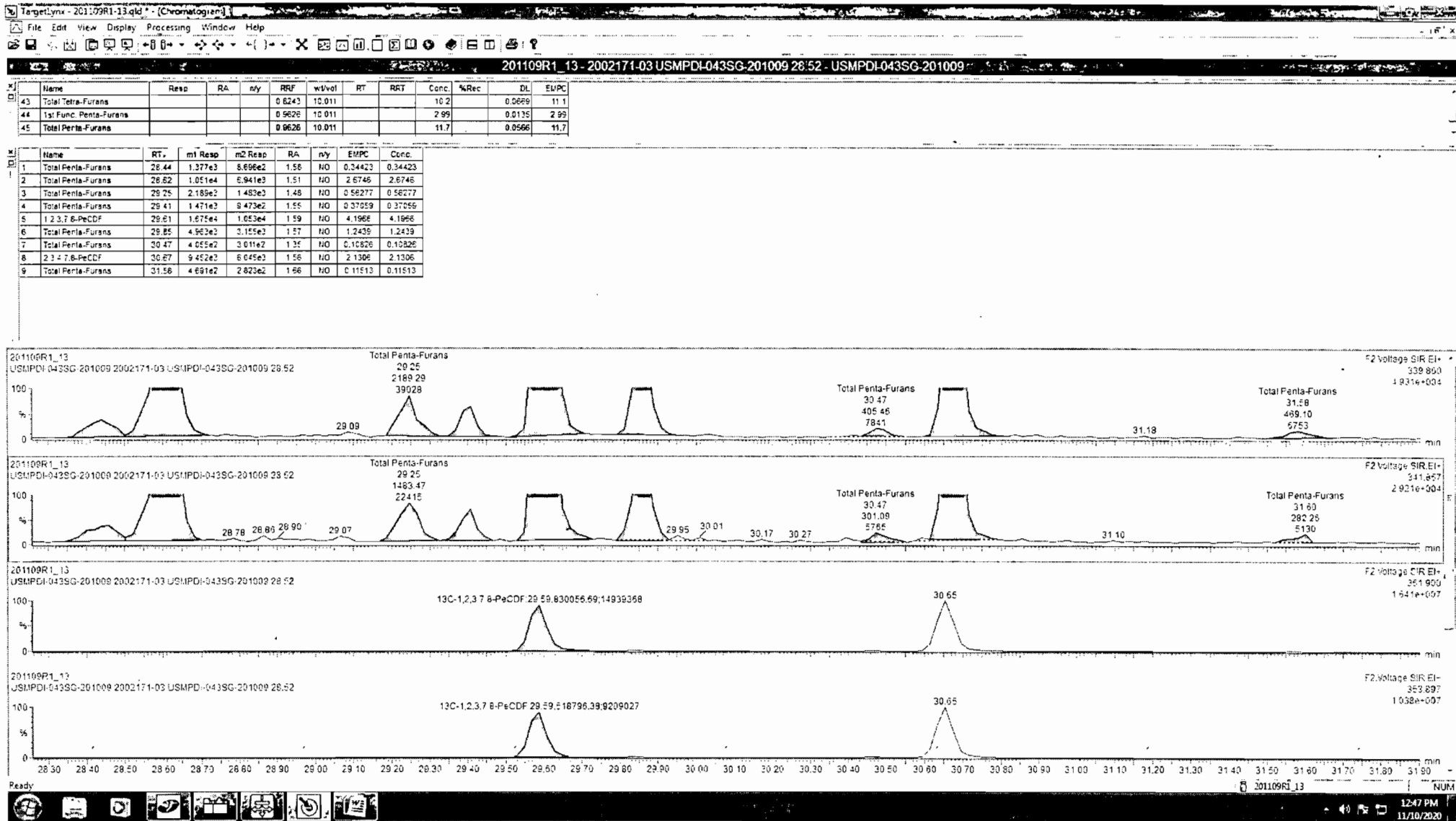


**13C-1,2,3,7,8-PeCDF**



**DPE2**







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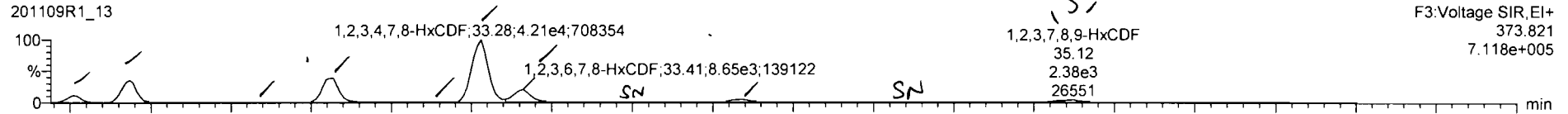
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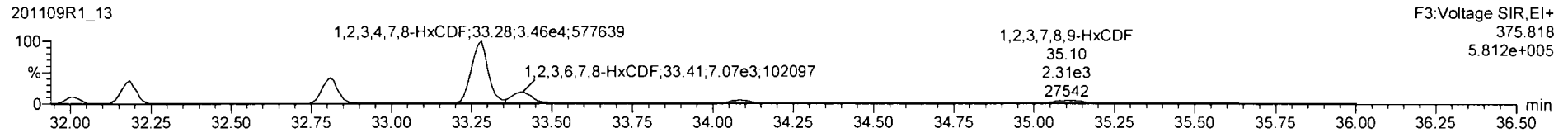
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**1,2,3,4,7,8-HxCDF**

201109R1\_13

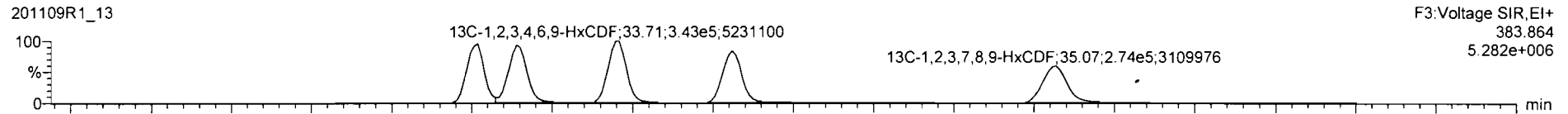


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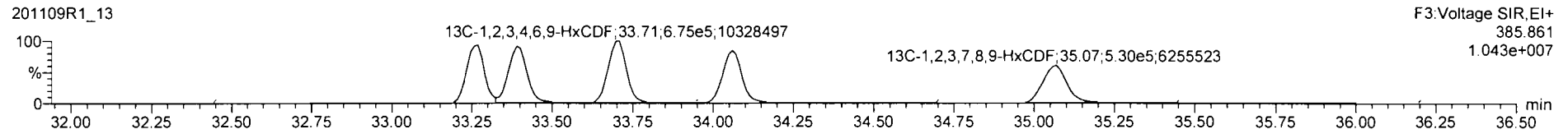


**13C-1,2,3,4,7,8-HxCDF**

201109R1\_13

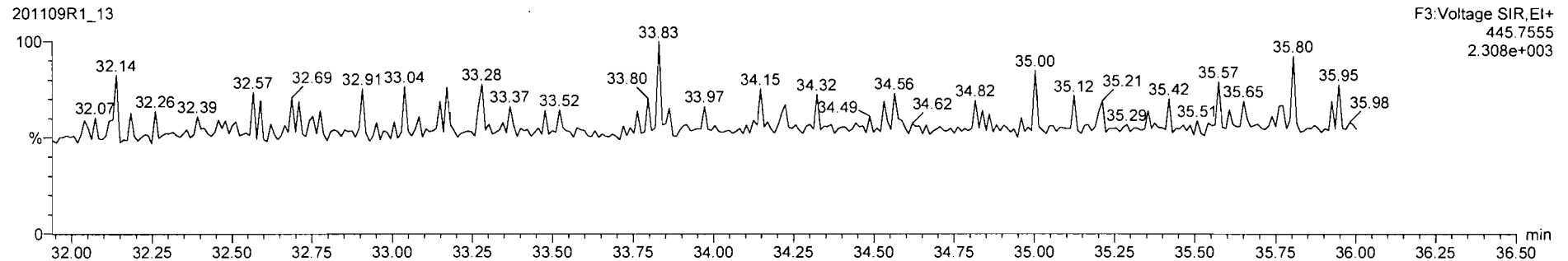


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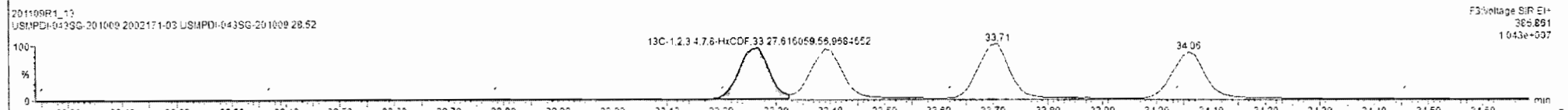
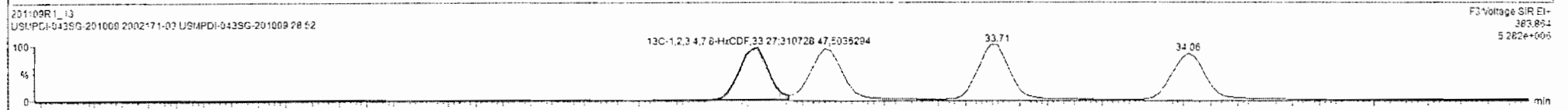
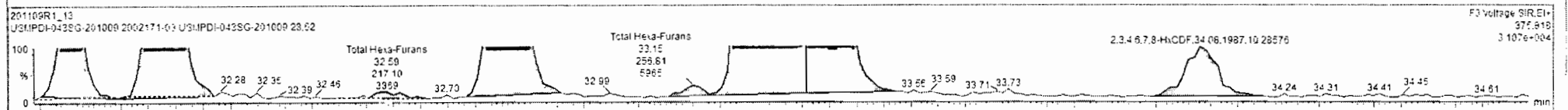
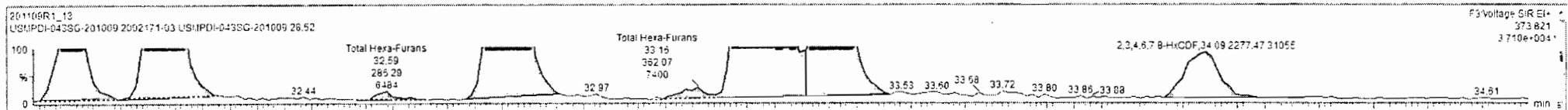
**DPE3**

201109R1\_13



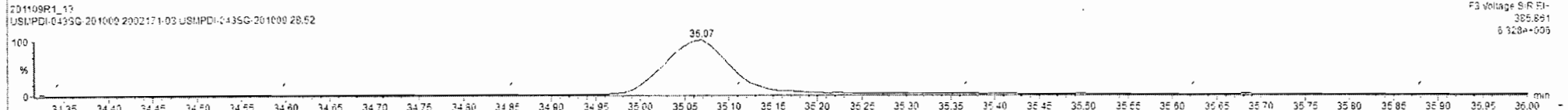
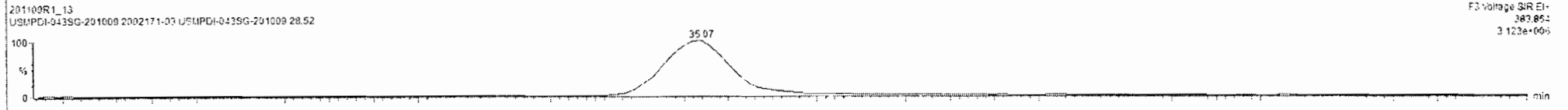
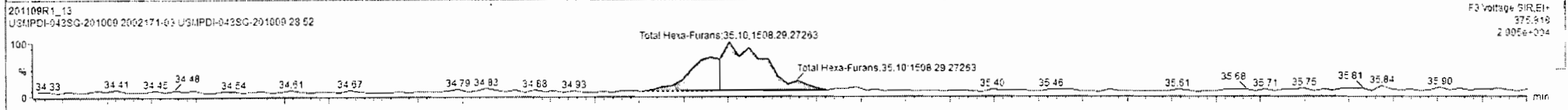
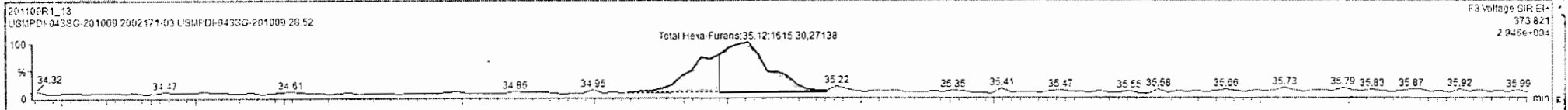
Name	Resp	RA	dy	RFP	wtVol	RT	RAT	Conc	%Rec	DL	EVPC
43 Total Tetra-Furans				0.8243	10.011			10.2		0.0699	11.1
44 1st Func. Penta-Furans				0.9626	10.011			2.99		0.0135	2.99
45 Total Penta-Furans				0.9626	10.011			11.7		0.0566	11.7

Name	RT...	m1 Resp	m2 Resp	RA	dy	EVPC	Conc
1 Total Hexa-Furans	32.01	4.120e3	3.140e3	1.31	NQ	1.6344	1.6344
2 Total Hexa-Furans	32.16	1.353e4	1.126e4	1.19	NQ	5.6057	5.6057
3 Total Hexa-Furans	32.59	2.863e2	2.171e2	1.32	NQ	0.11333	0.11333
4 Total Hexa-Furans	32.82	1.642e4	1.339e4	1.23	NQ	6.7102	6.7102
5 Total Hexa-Furans	33.16	3.621e2	2.568e2	1.41	NQ	0.13933	0.13933
6 1,2,3,4,7,8-HxCDF	33.26	4.213e4	3.459e4	1.22	NQ	17.346	17.346
7 1,2,3,6,7,8-HxCDF	33.41	8.649e3	7.085e3	1.22	NQ	3.2696	3.2696
8 2,3,4,6,7,8-HxCDF	34.09	2.277e2	1.987e2	1.15	NQ	0.95651	0.95651
9 1,2,3,7,8-HxCDF	35.12	2.376e3	2.313e3	1.03	YES	1.1210	0.03000



Name	Resp	RA	n/y	RAF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.011			10.2		0.0669	11.1
44 1st Func. Penta-Furans				0.9626	10.011			2.99		0.0135	2.99
45 Total Penta-Furans				0.9626	10.011			11.7		0.0596	11.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.01	4.120e3	3.140e3	1.31	HO	1.6344	1.6244
2 Total Hexa-Furans	32.16	1.353e4	1.136e4	1.19	HO	5.6057	5.6057
3 Total Hexa-Furans	32.59	2.863e2	2.171e2	1.32	HO	0.11333	0.11333
4 Total Hexa-Furans	32.82	1.642e4	1.339e4	1.23	HO	6.7102	6.7102
5 Total Hexa-Furans	33.16	3.621e2	2.566e2	1.41	HO	0.13933	0.13933
6 1,2,3,4,7,8-HxCDF	33.26	4.213e4	3.459e4	1.22	HO	17.346	17.346
7 1,2,3,6,7,8-HxCDF	33.41	8.649e3	7.085e3	1.22	HO	3.2696	3.2696
8 2,3,4,6,7,8-HxCDF	34.09	2.277e3	1.887e3	1.15	HO	0.95651	0.95651
9 1,2,3,7,8,9-HxCDF	35.09	8.404e2	7.701e2	1.09	HO	0.42071	0.42071
10 Total Hexa-Furans	35.12	1.615e2	1.508e3	1.07	HO	0.76323	0.76323

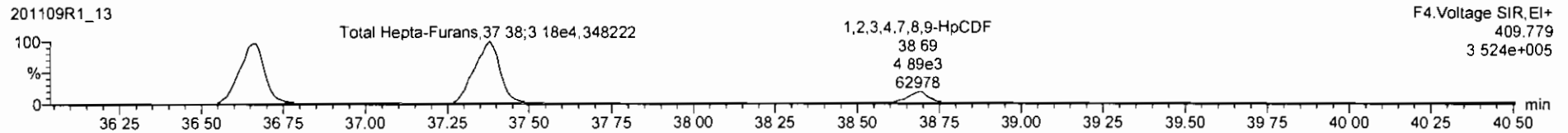
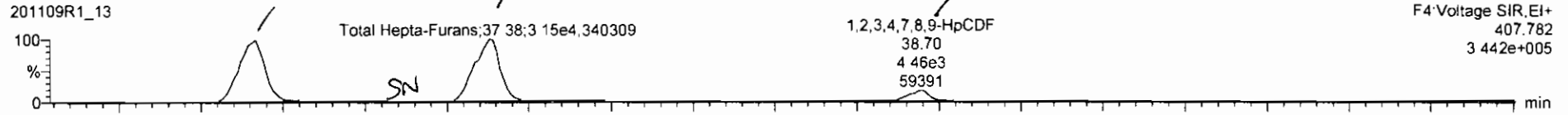


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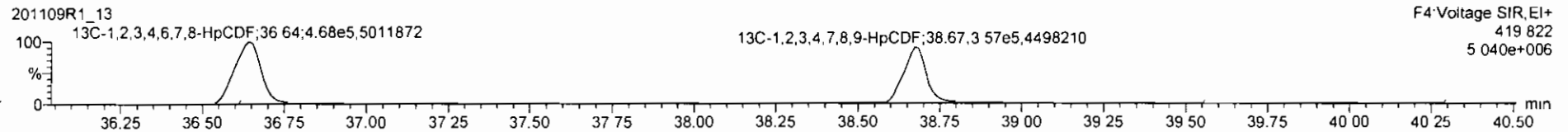
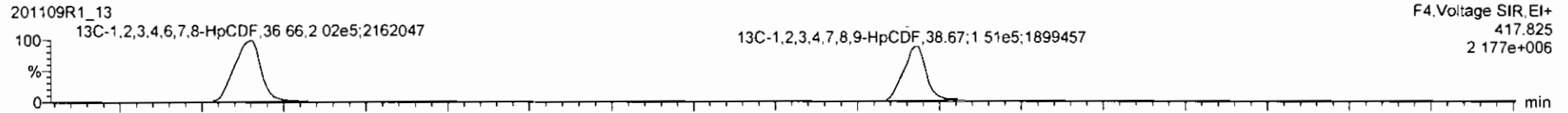
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Name: 201109R1\_13, Date: 09-Nov-2020, Time: 17:04:54, ID: 2002171-03 USMPDI-043SG-201009 28.52, Description: USMPDI-043SG-201009

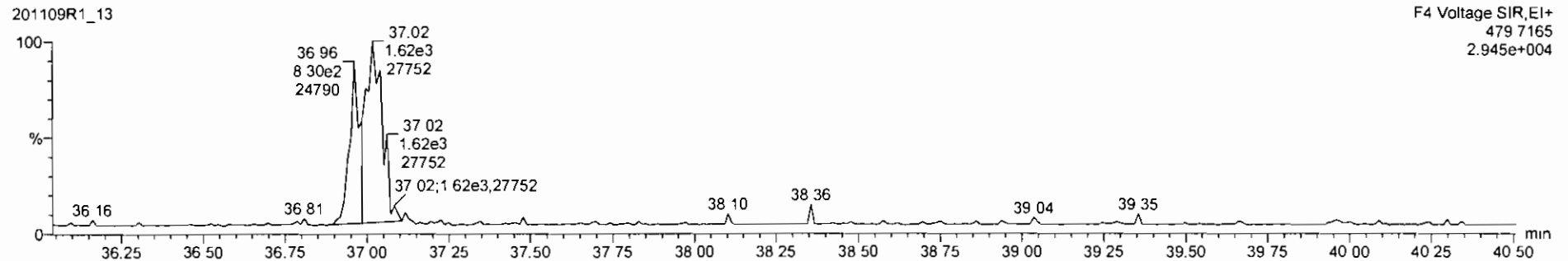
**1,2,3,4,6,7,8-HpCDF**



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

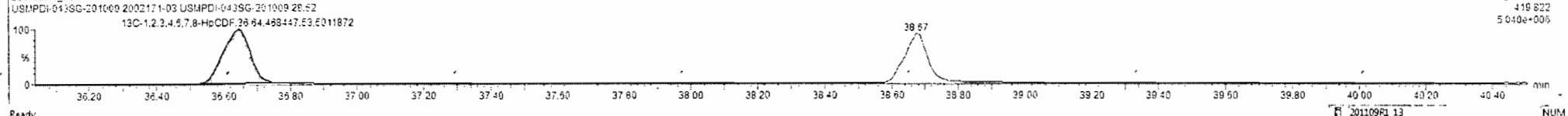
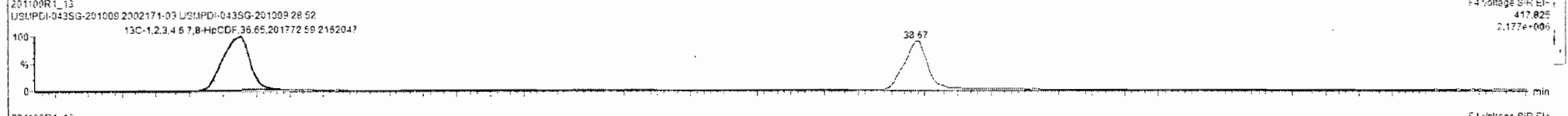
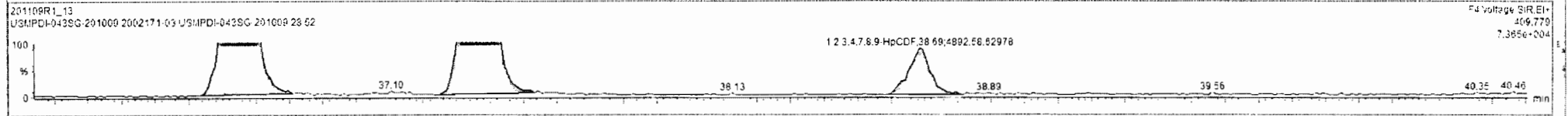
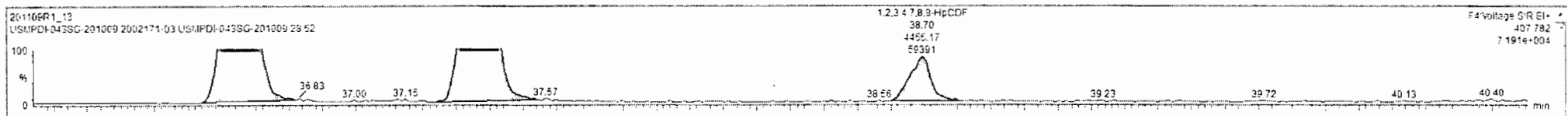


**DPE4**



Name	Resp	RA	n/y	RF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
47	Total Hepta-Furans			0.9966	10.011			43.1		0.257	43.1
48	PFK1										
49	PFK2										

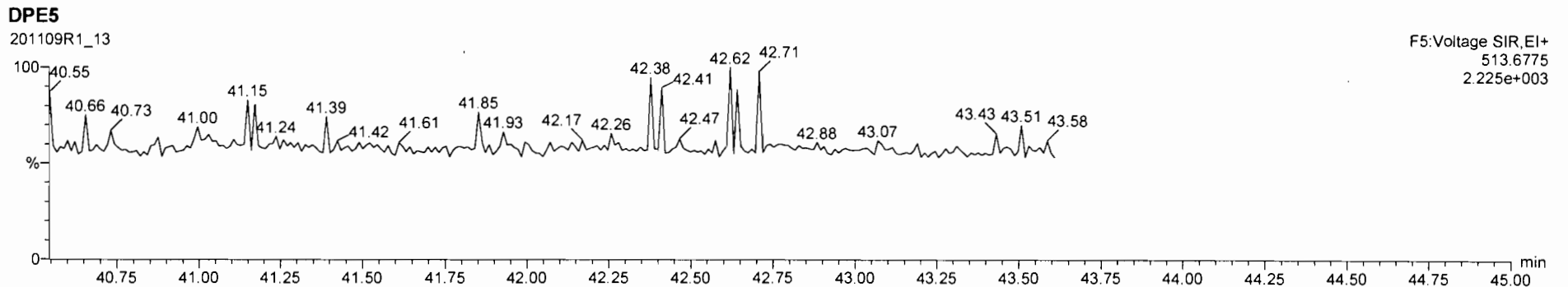
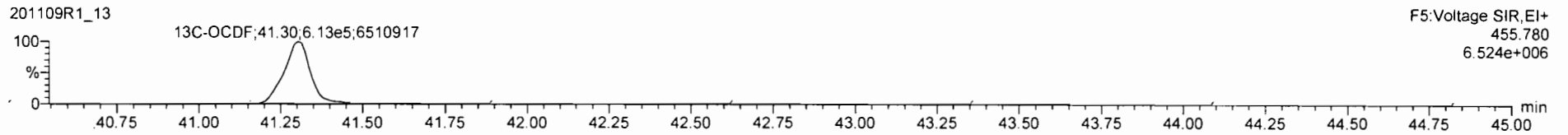
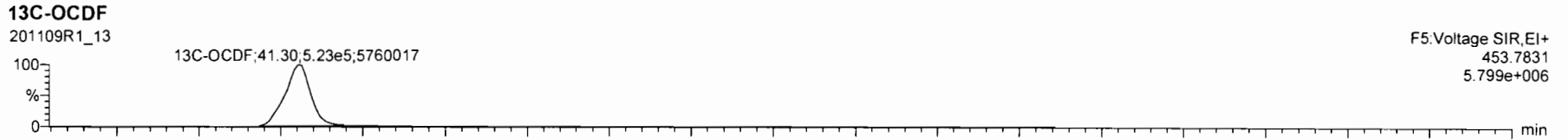
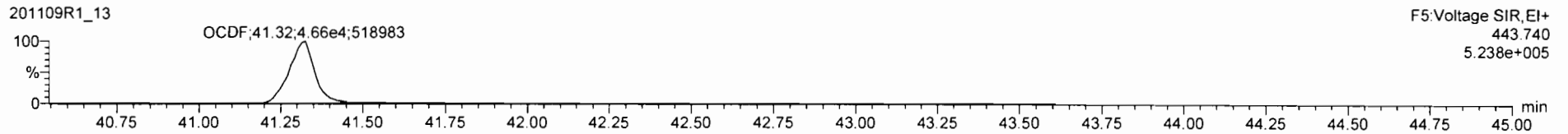
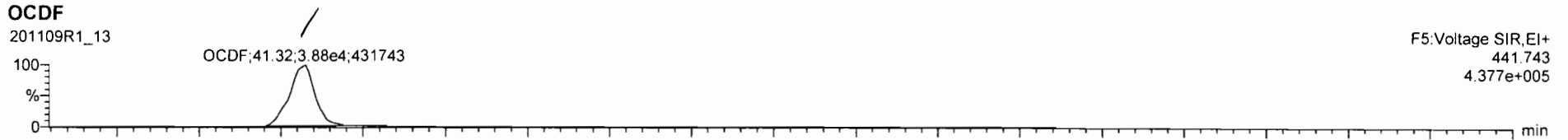
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.67	3.039e4	3.656e4	1.01	NO	18.371
2	Total Hepta-Furans	37.36	3.153e4	3.179e4	0.99	NO	21.493
3	1,2,3,4,7,8,9-HpCDF	38.70	4.415e3	4.692e3	0.91	NO	3.2672



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Printed: Tuesday, November 10, 2020 7:12:18 AM Pacific Standard Time

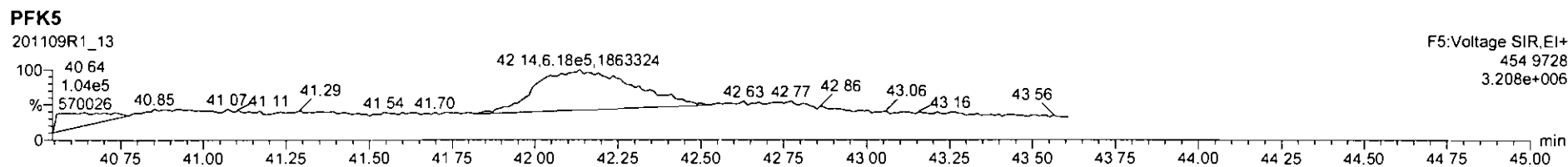
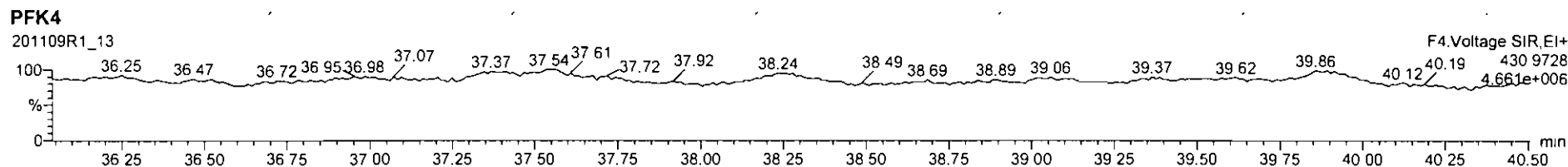
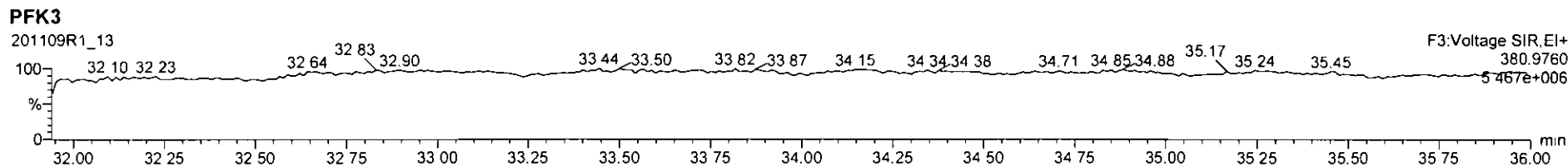
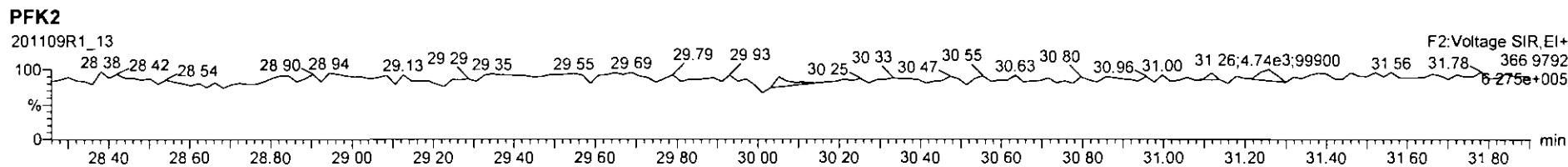
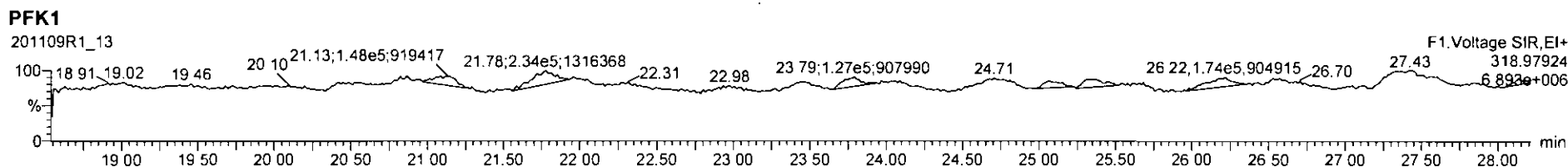
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Dataset: U:\VG12.PRO\Results\201109R1\201109R1-14.qld

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Printed: Tuesday, November 10, 2020 13:51:52 Pacific Standard Time

GRB 11/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50  
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CT 11/12/2020

Name: 201109R1\_14, Date: 09-Nov-2020, Time: 17:49:45, ID: 2002171-04 USMPDI-047SG-201009 26.9, Description: USMPDI-047SG-201009

#	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	2.13e3	0.59	YES	0.950	10.047	26.186	26.17	1.001	1.001	0.45867		0.0790	0.392
2	2 1,2,3,7,8-PeCDD	2.76e3	0.59	NO	0.885	10.047	30.885	30.88	1.000	1.000	0.75572		0.103	0.756
3	3 1,2,3,4,7,8-HxCDD	3.17e3	1.12	NO	1.02	10.047	34.218	34.21	1.001	1.001	0.96937		0.225	0.969
4	4 1,2,3,6,7,8-HxCDD	1.37e4	1.22	NO	0.915	10.047	34.322	34.32	1.000	1.000	4.0077		0.225	4.01
5	5 1,2,3,7,8,9-HxCDD	6.83e3	1.23	NO	0.934	10.047	34.585	34.60	1.000	1.001	2.0362		0.243	2.04
6	6 1,2,3,4,6,7,8-HpCDD	3.01e5	1.01	NO	0.870	10.047	38.071	38.08	1.000	1.000	116.57		0.969	117
7	7 OCDD	2.48e6	0.88	NO	0.872	10.047	41.029	41.04	1.000	1.000	1233.6		0.570	1230
8	8 2,3,7,8-TCDF	2.03e5	0.76	NO	0.824	10.047	25.470	25.49	1.000	1.001	37.519		0.104	37.5
9	9 1,2,3,7,8-PeCDF	2.86e5	1.57	NO	0.963	10.047	29.617	29.63	1.000	1.001	50.828		0.124	50.8
10	10 2,3,4,7,8-PeCDF	1.78e5	1.59	NO	1.07	10.047	30.675	30.69	1.000	1.001	28.631		0.101	28.6
11	11 1,2,3,4,7,8-HxCDF	2.04e5	1.21	NO	0.953	10.047	33.280	33.29	1.000	1.000	51.364		0.148	51.4
12	12 1,2,3,6,7,8-HxCDF	5.68e4	1.18	NO	1.01	10.047	33.412	33.42	1.000	1.000	13.081		0.141	13.1
13	13 2,3,4,6,7,8-HxCDF	1.91e4	1.21	NO	0.991	10.047	34.084	34.10	1.000	1.001	4.8241		0.162	4.82
14	14 1,2,3,7,8,9-HxCDF	8.80e3	1.10	NO	0.951	10.047	35.080	35.11	1.000	1.001	2.5906		0.226	2.59
15	15 1,2,3,4,6,7,8-HpCDF	8.31e4	0.97	NO	0.999	10.047	36.659	36.67	1.000	1.000	28.478		0.252	28.5
16	16 1,2,3,4,7,8,9-HpCDF	1.53e4	0.99	NO	1.12	10.047	38.696	38.71	1.000	1.000	6.1126		0.248	6.11
17	17 OCDF	1.40e5	0.85	NO	0.868	10.047	41.322	41.34	1.000	1.001	66.320		0.218	66.3
18	18 13C-2,3,7,8-TCDD	9.73e5	0.80	NO	1.11	10.047	26.132	26.16	1.029	1.030	184.03	92.4	0.178	
19	19 13C-1,2,3,7,8-PeCDD	8.20e5	0.63	NO	0.859	10.047	30.745	30.88	1.211	1.216	200.26	101	0.306	
20	20 13C-1,2,3,4,7,8-HxCDD	6.39e5	1.27	NO	0.700	10.047	34.167	34.19	1.013	1.014	193.67	97.3	0.463	
21	21 13C-1,2,3,6,7,8-HxCDD	7.44e5	1.28	NO	0.833	10.047	34.296	34.31	1.017	1.018	189.47	95.2	0.389	
22	22 13C-1,2,3,7,8,9-HxCDD	7.15e5	1.25	NO	0.762	10.047	34.565	34.58	1.025	1.025	198.97	100	0.425	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.90e5	1.08	NO	0.650	10.047	38.001	38.07	1.127	1.129	192.70	96.8	0.628	
24	24 13C-OCDD	9.18e5	0.89	NO	0.539	10.047	40.931	41.03	1.214	1.217	360.96	90.7	0.407	
25	25 13C-2,3,7,8-TCDF	1.31e6	0.79	NO	0.981	10.047	25.467	25.46	1.003	1.003	177.77	89.3	0.215	
26	26 13C-1,2,3,7,8-PeCDF	1.16e6	1.57	NO	0.792	10.047	29.506	29.61	1.162	1.166	196.32	98.6	0.445	
27	27 13C-2,3,4,7,8-PeCDF	1.16e6	1.62	NO	0.778	10.047	30.557	30.67	1.204	1.208	198.80	99.9	0.453	
28	28 13C-1,2,3,4,7,8-HxCDF	8.30e5	0.51	NO	0.954	10.047	33.271	33.28	0.987	0.987	184.60	92.7	0.540	
29	29 13C-1,2,3,6,7,8-HxCDF	8.57e5	0.51	NO	1.01	10.047	33.409	33.41	0.991	0.991	180.68	90.8	0.512	
30	30 13C-2,3,4,6,7,8-HxCDF	7.94e5	0.51	NO	0.921	10.047	34.066	34.08	1.010	1.011	182.80	91.8	0.559	
31	31 13C-1,2,3,7,8,9-HxCDF	7.11e5	0.52	NO	0.803	10.047	35.064	35.08	1.040	1.040	187.83	94.4	0.641	



Dataset:            U:\VG12.PRO\Results\201109R1\201109R1-14.qld

Last Altered:    Tuesday, November 10, 2020 13:51:31 Pacific Standard Time

Printed:           Tuesday, November 10, 2020 13:51:52 Pacific Standard Time

Name: 201109R1\_14, Date: 09-Nov-2020, Time: 17:49:45, ID: 2002171-04 USMPDI-047SG-201009 26.9, Description: USMPDI-047SG-201009

#	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	5.82e5	0.43	NO	0.735	10.047	36.629	36.65	1.086	1.087	167.83	84.3	0.510	
33	13C-1,2,3,4,7,8,9-HpCDF	4.44e5	0.43	NO	0.568	10.047	38.612	38.70	1.145	1.148	165.91	83.3	0.661	
34	13C-OCDF	9.68e5	0.88	NO	0.629	10.047	41.221	41.31	1.222	1.225	326.43	82.0	0.432	
35	37Cl-2,3,7,8-TCDD	4.36e5			1.09	10.047	26.150	26.17	1.030	1.031	84.073	106	0.0413	
36	13C-1,2,3,4-TCDD	9.49e5	0.80	NO	1.00	10.047	25.430	25.39	1.000	1.000	199.06	100	0.197	
37	13C-1,2,3,4-TCDF	1.49e6	0.78	NO	1.00	10.047	24.130	23.90	1.000	1.000	199.06	100	0.211	
38	13C-1,2,3,4,6,9-HxCDF	9.38e5	0.51	NO	1.00	10.047	33.840	33.72	1.000	1.000	199.06	100	0.515	
39	Total Tetra-Dioxins				0.950	10.047	24.620		0.000		5.5523		0.0790	6.05
40	Total Penta-Dioxins				0.885	10.047	29.960		0.000		6.0339		0.103	7.40
41	Total Hexa-Dioxins				0.915	10.047	33.635		0.000		44.551		0.241	44.6
42	Total Hepta-Dioxins				0.870	10.047	37.640		0.000		338.29		0.969	338
43	Total Tetra-Furans				0.824	10.047	23.610		0.000		90.344		0.104	94.7
44	1st Func. Penta-Furans				0.963	10.047	27.230		0.000		6.9615		0.0203	6.96
45	Total Penta-Furans				0.963	10.047	29.275		0.000		130.60		0.118	131
46	Total Hexa-Furans				0.991	10.047	33.555		0.000		109.93		0.164	110
47	Total Hepta-Furans				0.999	10.047	37.835		0.000		78.091		0.264	78.1

Dataset: U:\VG12.PRO\Results\201109R1\201109R1-14.qld

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Name: 201109R1\_14, Date: 09-Nov-2020, Time: 17:49:45, ID: 2002171-04 USMPDI-047SG-201009 26.9, Description: USMPDI-047SG-201009

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	22.37	5.439e4	6.267e4	4.281e3	5.367e3	0.80	NO	9.648e3	2.0772	2.0772	0.0790
2	Total Tetra-Dioxins	22.73	1.471e4	1.841e4	1.219e3	1.413e3	0.86	NO	2.632e3	0.56661	0.56661	0.0790
3	Total Tetra-Dioxins	23.27	5.581e3	4.819e3	3.149e2	3.680e2	0.86	NO	6.829e2	0.14702	0.14702	0.0790
4	Total Tetra-Dioxins	24.09	8.748e3	8.535e3	5.594e2	6.646e2	0.84	NO	1.224e3	0.26351	0.26351	0.0790
5	Total Tetra-Dioxins	24.31	6.549e3	7.745e3	5.130e2	6.615e2	0.78	NO	1.174e3	0.25285	0.25285	0.0790
6	Total Tetra-Dioxins	24.55	6.827e3	1.089e4	5.381e2	7.193e2	0.75	NO	1.257e3	0.27071	0.27071	0.0790
7	Total Tetra-Dioxins	24.72	2.216e3	3.853e3	2.026e2	2.703e2	0.75	NO	4.729e2	0.10181	0.10181	0.0790
8	Total Tetra-Dioxins	25.02	2.827e3	2.938e3	1.460e2	1.684e2	0.87	NO	3.144e2	0.067679	0.067679	0.0790
9	Total Tetra-Dioxins	25.11	5.379e3	3.497e3	2.982e2	2.652e2	1.12	YES	0.000e0	0.00000	0.10105	0.0790
10	Total Tetra-Dioxins	25.89	5.030e4	5.987e4	3.511e3	4.371e3	0.80	NO	7.882e3	1.6969	1.6969	0.0790
11	2,3,7,8-TCDD	26.17	1.089e4	2.209e4	7.921e2	1.339e3	0.59	YES	2.131e3	0.00000	0.39201	0.0790
12	Total Tetra-Dioxins	26.51	3.777e3	4.625e3	2.089e2	2.929e2	0.71	NO	5.018e2	0.10804	0.10804	0.0790

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	28.62	3.373e4	5.576e4	2.879e3	4.665e3	0.62	NO	7.544e3	2.0684	2.0684	0.103
2	Total Penta-Dioxins	29.10	2.155e4	2.946e4	1.003e3	1.627e3	0.62	NO	2.630e3	0.72113	0.72113	0.103
3	Total Penta-Dioxins	29.63	2.285e4	2.864e4	1.217e3	1.728e3	0.70	NO	2.945e3	0.80750	0.80750	0.103
4	Total Penta-Dioxins	29.81	2.289e4	3.607e4	1.044e3	1.695e3	0.62	NO	0.000e0	0.00000	0.75097	0.103
5	Total Penta-Dioxins	29.83	1.641e4	2.572e4	8.828e2	1.371e3	0.64	NO	0.000e0	0.00000	0.61790	0.103
6	Total Penta-Dioxins	30.11	1.976e4	2.588e4	1.348e3	1.937e3	0.70	NO	3.286e3	0.90089	0.90089	0.103
7	Total Penta-Dioxins	30.39	4.676e3	9.738e3	3.133e2	5.510e2	0.57	NO	8.643e2	0.23698	0.23698	0.103
8	1,2,3,7,8-PeCDD	30.88	1.889e4	2.903e4	1.024e3	1.732e3	0.59	NO	2.756e3	0.75572	0.75572	0.103
9	Total Penta-Dioxins	30.96	8.809e3	1.096e4	3.898e2	5.547e2	0.70	NO	9.444e2	0.25895	0.25895	0.103
10	Total Penta-Dioxins	31.24	7.769e3	1.041e4	3.852e2	6.520e2	0.59	NO	1.037e3	0.28438	0.28438	0.103

Dataset: U:\VG12.PRO\Results\201109R1\201109R1-14.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	32.57	6.387e5	4.988e5	3.003e4	2.420e4	1.24	NO	5.423e4	16.886	16.886	0.241
2	Total Hexa-Dioxins	33.16	6.997e4	6.567e4	3.808e3	3.164e3	1.20	NO	6.972e3	2.1707	2.1707	0.241
3	Total Hexa-Dioxins	33.46	3.964e5	3.270e5	2.744e4	2.276e4	1.21	NO	5.019e4	15.628	15.628	0.241
4	Total Hexa-Dioxins	33.54	7.250e4	5.242e4	3.657e3	2.936e3	1.25	NO	6.593e3	2.0528	2.0528	0.241
5	1,2,3,4,7,8-HxCDD	34.21	2.893e4	2.723e4	1.674e3	1.492e3	1.12	NO	3.166e3	0.96937	0.96937	0.225
6	1,2,3,6,7,8-HxCDD	34.32	1.274e5	1.032e5	7.537e3	6.158e3	1.22	NO	1.369e4	4.0077	4.0077	0.225
7	Total Hexa-Dioxins	34.48	2.252e4	2.067e4	1.372e3	1.202e3	1.14	NO	2.574e3	0.80134	0.80134	0.241
8	1,2,3,7,8,9-HxCDD	34.60	5.479e4	4.810e4	3.763e3	3.067e3	1.23	NO	6.830e3	2.0362	2.0362	0.243

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.06	3.782e6	3.726e6	2.866e5	2.850e5	1.01	NO	5.716e5	221.71	221.71	0.969
2	1,2,3,4,6,7,8-HpCDD	38.08	2.526e6	2.488e6	1.513e5	1.492e5	1.01	NO	3.005e5	116.57	116.57	0.969

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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	20.14	1.116e4	1.428e4	9.159e2	1.283e3	0.71	NO	2.199e3	0.40690	0.40690	0.104
2	Total Tetra-Furans	20.67	1.191e4	1.416e4	9.661e2	1.267e3	0.76	NO	2.233e3	0.41311	0.41311	0.104
3	Total Tetra-Furans	21.47	6.775e4	9.459e4	6.510e3	8.685e3	0.75	NO	1.520e4	2.8114	2.8114	0.104
4	Total Tetra-Furans	21.83	6.163e3	1.050e4	4.729e2	6.240e2	0.76	NO	1.097e3	0.20295	0.20295	0.104
5	Total Tetra-Furans	21.97	1.260e4	1.673e4	1.254e3	1.605e3	0.78	NO	2.859e3	0.52895	0.52895	0.104
6	Total Tetra-Furans	22.09	9.313e3	1.259e4	7.301e2	1.113e3	0.66	NO	1.843e3	0.34094	0.34094	0.104
7	Total Tetra-Furans	22.40	1.771e5	2.347e5	1.689e4	2.336e4	0.72	NO	4.025e4	7.4462	7.4462	0.104
8	Total Tetra-Furans	22.88	5.456e4	7.072e4	4.757e3	6.297e3	0.76	NO	1.105e4	2.0453	2.0453	0.104
9	Total Tetra-Furans	23.01	1.165e4	1.569e4	7.290e2	1.045e3	0.70	NO	1.774e3	0.32830	0.32830	0.104
10	Total Tetra-Furans	23.24	3.120e4	4.308e4	2.615e3	3.824e3	0.68	NO	6.439e3	1.1914	1.1914	0.104
11	Total Tetra-Furans	23.66	6.427e3	8.609e3	5.317e2	7.122e2	0.75	NO	1.244e3	0.23014	0.23014	0.104
12	Total Tetra-Furans	23.78	6.991e3	1.375e4	6.167e2	8.923e2	0.69	NO	1.509e3	0.27921	0.27921	0.104
13	Total Tetra-Furans	23.98	7.589e4	9.845e4	3.379e3	4.807e3	0.70	NO	0.000e0	0.00000	1.5146	0.104
14	Total Tetra-Furans	24.00	8.105e4	1.130e5	6.576e3	8.974e3	0.73	NO	0.000e0	0.00000	2.8771	0.104
15	Total Tetra-Furans	24.47	9.118e5	1.214e6	6.860e4	9.177e4	0.75	NO	1.604e5	29.672	29.672	0.104
16	Total Tetra-Furans	24.80	2.577e4	3.381e4	1.595e3	2.204e3	0.72	NO	3.799e3	0.70289	0.70289	0.104
17	Total Tetra-Furans	25.21	1.182e4	1.486e4	6.365e2	7.563e2	0.84	NO	1.393e3	0.25771	0.25771	0.104
18	Total Tetra-Furans	25.36	9.458e4	1.206e5	5.615e3	7.400e3	0.76	NO	1.302e4	2.4082	2.4082	0.104
19	2,3,7,8-TCDF	25.49	1.225e6	1.659e6	8.735e4	1.154e5	0.76	NO	2.028e5	37.519	37.519	0.104
20	Total Tetra-Furans	25.79	3.843e4	5.037e4	3.095e3	4.123e3	0.75	NO	7.218e3	1.3355	1.3355	0.104
21	Total Tetra-Furans	26.07	8.736e3	1.352e4	6.716e2	8.582e2	0.78	NO	1.530e3	0.28304	0.28304	0.104
22	Total Tetra-Furans	27.03	1.017e4	1.440e4	6.678e2	7.740e2	0.86	NO	1.442e3	0.26677	0.26677	0.104
23	Total Tetra-Furans	27.40	5.988e4	7.891e4	3.862e3	5.188e3	0.74	NO	9.050e3	1.6744	1.6744	0.104

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1st Func. Penta-Furans	27.00	3.931e5	2.459e5	2.409e4	1.495e4	1.61	NO	3.904e4	6.9615	6.9615	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	28.48	4.009e4	2.749e4	3.027e3	2.091e3	1.45	NO	5.118e3	0.91256	0.91256	0.118
2	Total Penta-Furans	28.64	1.317e6	8.045e5	8.158e4	5.131e4	1.59	NO	1.329e5	23.696	23.696	0.118
3	Total Penta-Furans	29.10	9.272e3	7.061e3	5.183e2	3.585e2	1.45	NO	8.767e2	0.15633	0.15633	0.118
4	Total Penta-Furans	29.27	8.894e4	6.316e4	5.851e3	3.874e3	1.51	NO	9.725e3	1.7341	1.7341	0.118
5	Total Penta-Furans	29.43	3.192e5	1.999e5	1.721e4	1.068e4	1.61	NO	2.789e4	4.9735	4.9735	0.118
6	1,2,3,7,8-PeCDF	29.63	3.090e6	1.975e6	1.746e5	1.112e5	1.57	NO	2.858e5	50.828	50.828	0.124
7	Total Penta-Furans	29.89	1.160e6	7.067e5	6.252e4	3.946e4	1.58	NO	1.020e5	18.184	18.184	0.118
8	Total Penta-Furans	30.51	2.176e4	1.478e4	1.207e3	8.486e2	1.42	NO	2.056e3	0.36654	0.36654	0.118
9	2,3,4,7,8-PeCDF	30.69	2.084e6	1.304e6	1.092e5	6.857e4	1.59	NO	1.778e5	28.631	28.631	0.101
10	Total Penta-Furans	31.60	7.005e4	4.121e4	3.792e3	2.447e3	1.55	NO	6.238e3	1.1124	1.1124	0.118

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.03	1.614e5	1.364e5	8.155e3	6.878e3	1.19	NO	1.503e4	3.7854	3.7854	0.164
2	Total Hexa-Furans	32.21	6.143e5	4.994e5	3.060e4	2.511e4	1.22	NO	5.571e4	14.029	14.029	0.164
3	Total Hexa-Furans	32.61	1.279e4	1.202e4	7.332e2	6.115e2	1.20	NO	1.345e3	0.33859	0.33859	0.164
4	Total Hexa-Furans	32.83	6.287e5	5.213e5	3.134e4	2.558e4	1.22	NO	5.692e4	14.333	14.333	0.164
5	Total Hexa-Furans	33.17	3.447e4	2.827e4	1.710e3	1.280e3	1.34	NO	2.990e3	0.75288	0.75288	0.164
6	1,2,3,4,7,8-HxCDF	33.29	2.068e6	1.764e6	1.116e5	9.259e4	1.21	NO	2.042e5	51.364	51.364	0.148
7	1,2,3,6,7,8-HxCDF	33.42	5.426e5	4.423e5	3.076e4	2.600e4	1.18	NO	5.676e4	13.081	13.081	0.141
8	Total Hexa-Furans	33.73	1.760e4	1.182e4	8.569e2	7.629e2	1.12	NO	1.620e3	0.40785	0.40785	0.164
9	2,3,4,6,7,8-HxCDF	34.10	1.677e5	1.389e5	1.042e4	8.633e3	1.21	NO	1.906e4	4.8241	4.8241	0.162
10	1,2,3,7,8,9-HxCDF	35.11	1.965e5	1.595e5	4.613e3	4.188e3	1.10	NO	8.801e3	2.5906	2.5906	0.226
11	Total Hexa-Furans	35.12	2.126e5	1.794e5	9.793e3	7.790e3	1.26	NO	1.758e4	4.4275	4.4275	0.164

**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	36.67	5.696e5	6.048e5	4.099e4	4.214e4	0.97	NO	8.313e4	28.478	28.478	0.252
2	Total Hepta-Furans	37.39	7.811e5	7.754e5	5.572e4	5.621e4	0.99	NO	1.119e5	43.500	43.500	0.264
3	1,2,3,4,7,8,9-HpCDF	38.71	1.266e5	1.373e5	7.629e3	7.693e3	0.99	NO	1.532e4	6.1126	6.1126	0.248

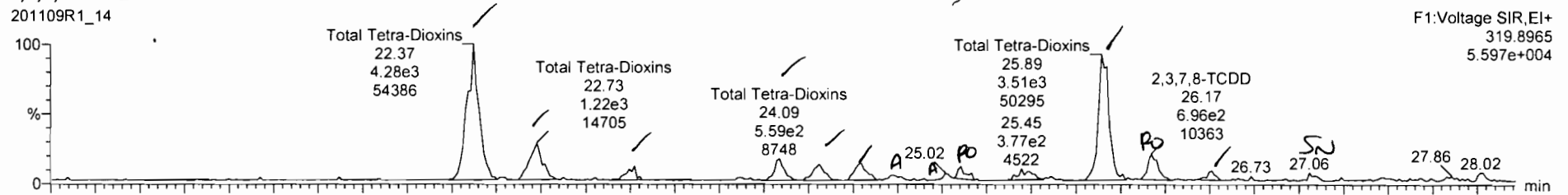
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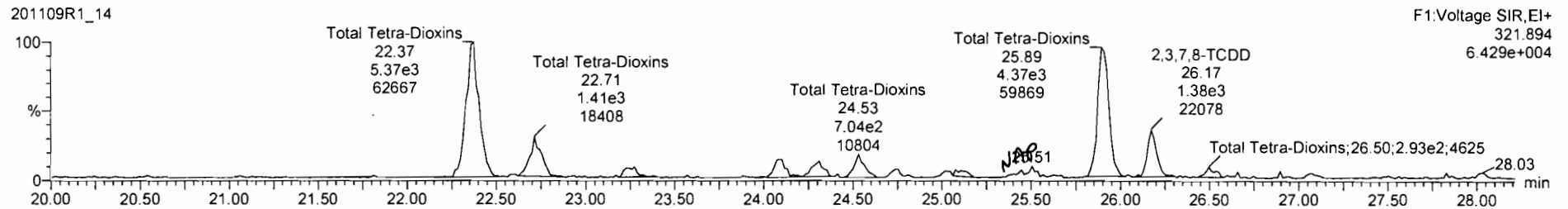
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**2,3,7,8-TCDD**

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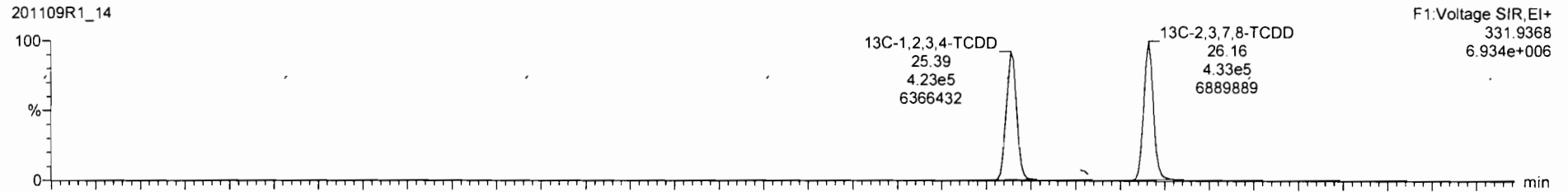


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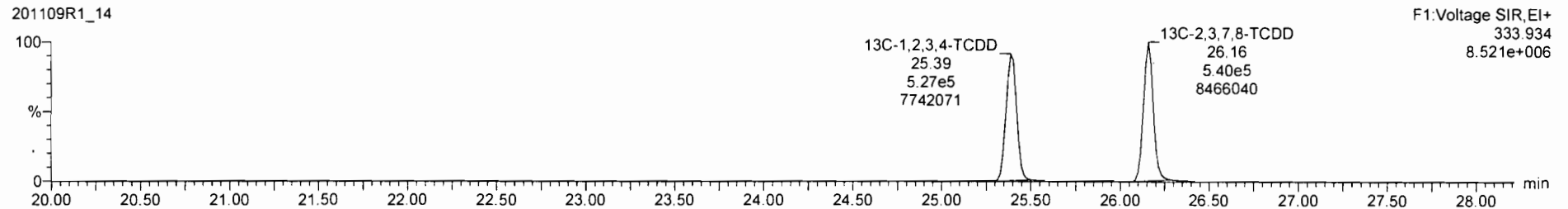


**13C-2,3,7,8-TCDD**

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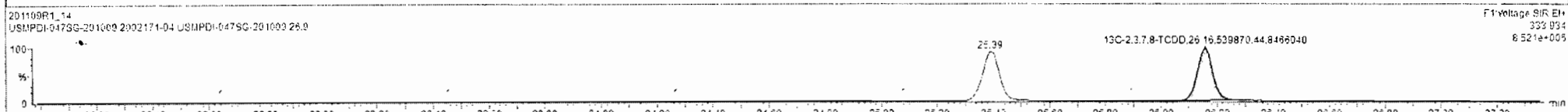
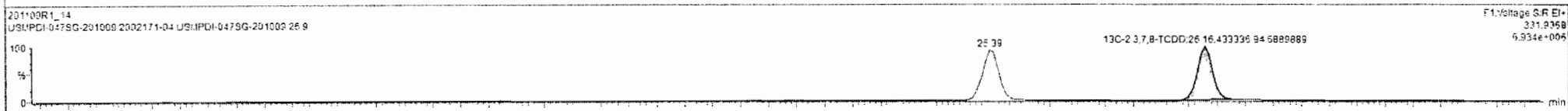
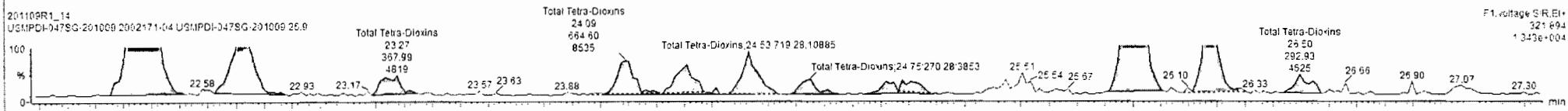
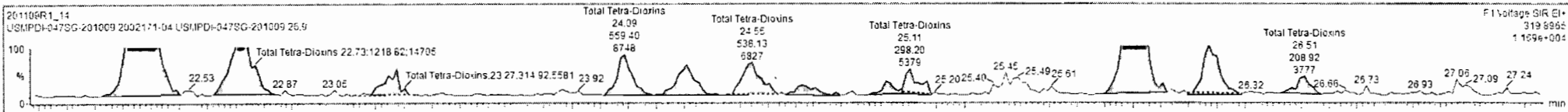


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Name	Resp	RA	n/y	RRF	wt/wt	RT	ART	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.6501	10.047			5.55		0.0790	6.05
40 Total Penta-Dioxins				0.6855	10.047			6.15		0.103	7.17
41 Total Hexa-Dioxins				0.2145	10.047			44.6		0.241	45.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.37	4.251e3	5.367e2	0.80	HO	2.0772	2.6772
2 Total Tetra-Dioxins	22.73	1.219e3	1.413e3	0.96	HO	0.56661	0.56661
3 Total Tetra-Dioxins	23.27	3.149e2	3.680e2	0.96	HO	0.14702	0.14702
4 Total Tetra-Dioxins	24.09	5.594e2	6.646e2	0.94	HO	0.26311	0.26311
5 Total Tetra-Dioxins	24.31	5.130e2	6.615e2	0.78	HO	0.25265	0.25265
6 Total Tetra-Dioxins	24.55	5.381e2	7.193e2	0.75	HO	0.27071	0.27071
7 Total Tetra-Dioxins	24.72	2.026e2	2.703e2	0.75	HO	0.10181	0.10181
8 Total Tetra-Dioxins	25.02	1.460e2	1.684e2	0.87	HO	0.067679	0.067679
9 Total Tetra-Dioxins	25.11	2.982e2	2.652e2	1.12	YES	0.10105	0.00000
10 Total Tetra-Dioxins	25.29	3.511e3	4.371e3	0.80	HO	1.8969	1.8969
11 2,3,7,8-TCDD	26.17	7.521e2	1.339e3	0.59	YES	0.39201	0.00000
12 Total Tetra-Dioxins	26.51	2.089e2	2.929e2	0.71	HO	0.10804	0.10804



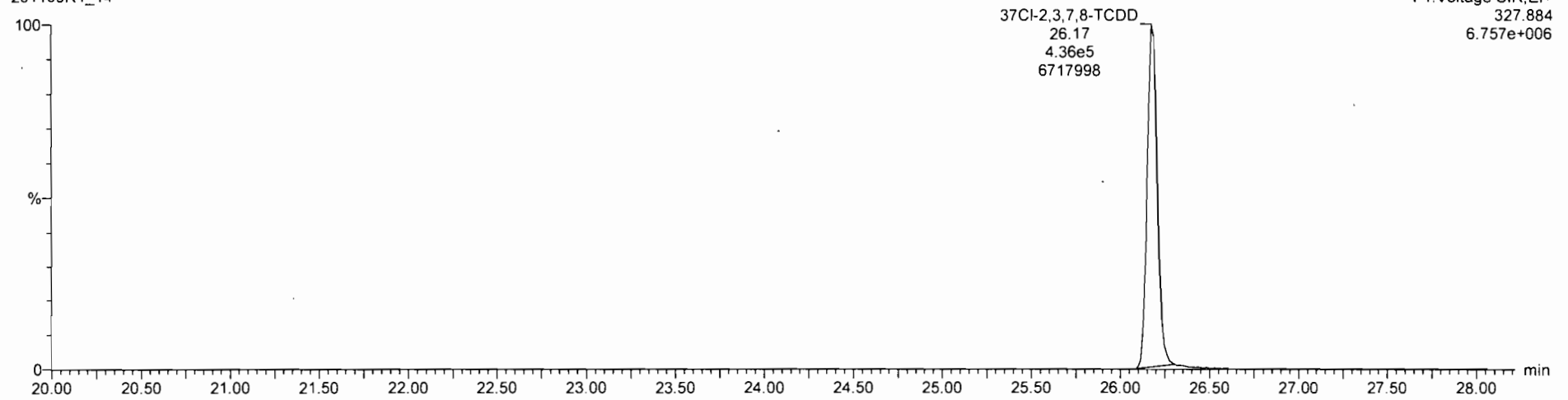
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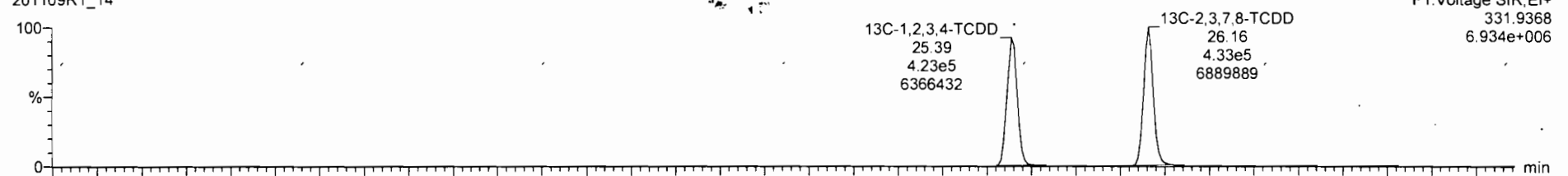
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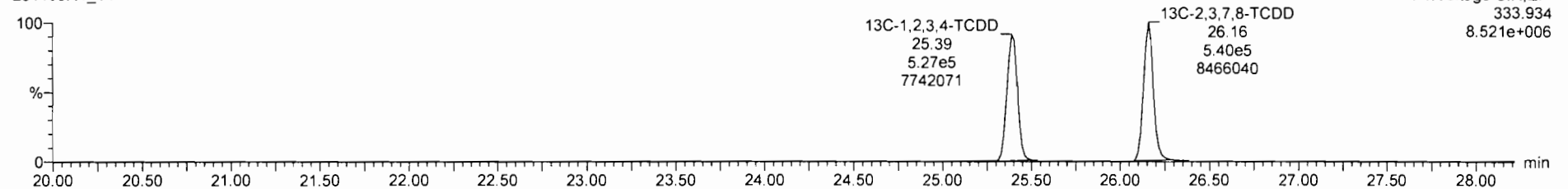


**13C-1,2,3,4-TCDD**

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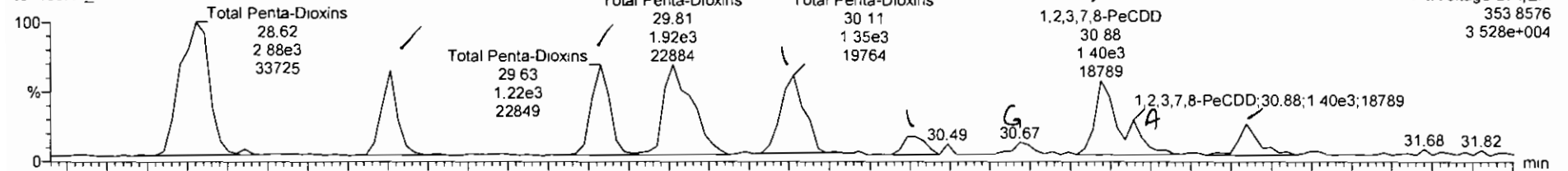
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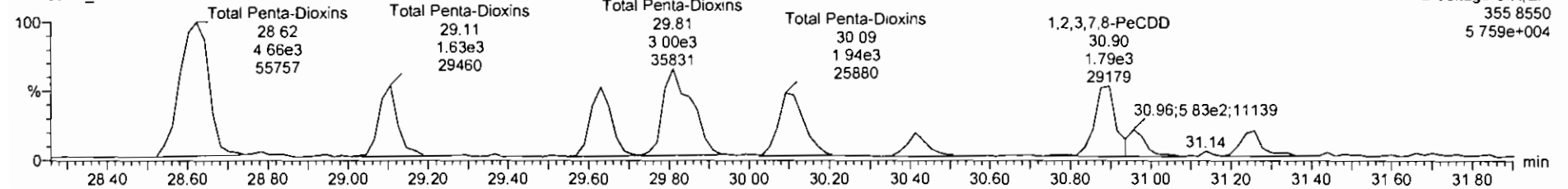
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1,2,3,7,8-PeCDD

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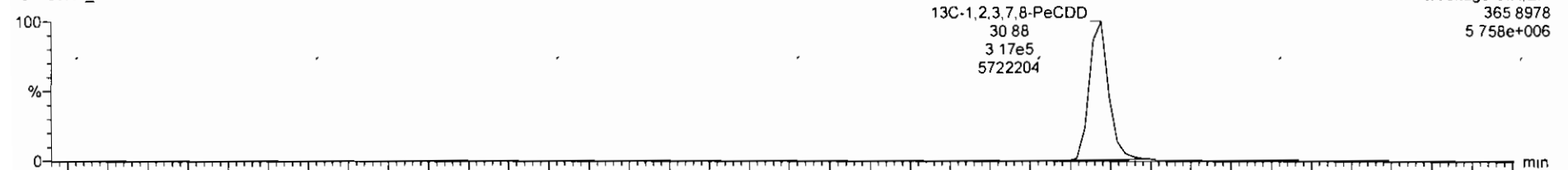


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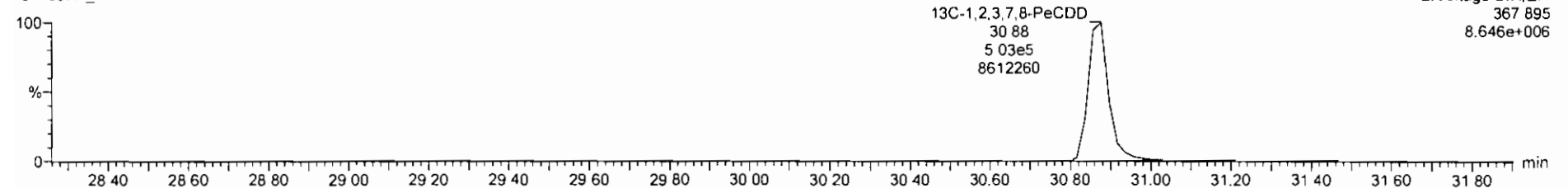


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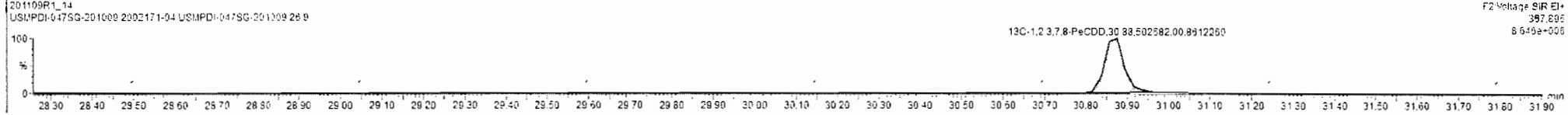
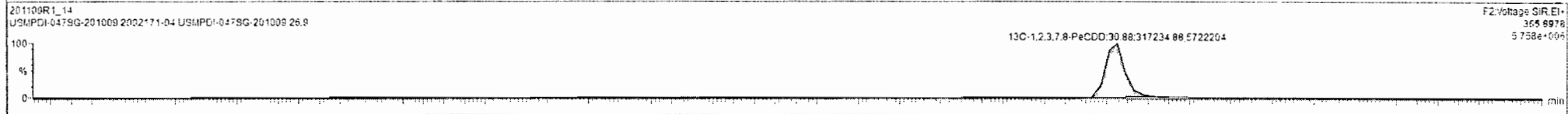
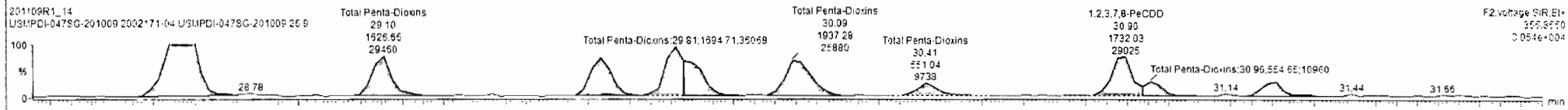
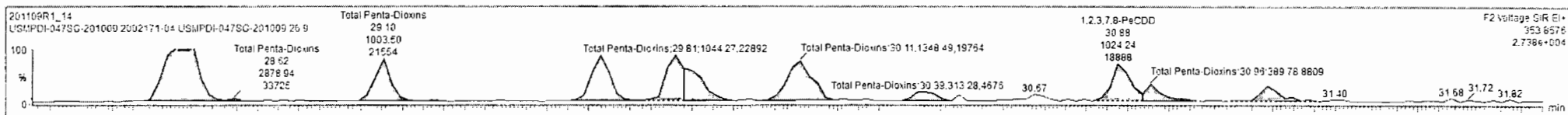


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Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.047			5.55	0.0790	8.05	
40 Total Penta-Dioxins				0.6855	10.047			6.03	0.103	7.40	
41 Total Hexa-Dioxins				0.9145	10.047			44.6	0.241	45.0	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	26.62	2.879e3	4.665e3	0.62	NO	2.0684	2.0684
2 Total Penta-Dioxins	26.10	1.002e3	1.627e3	0.62	NO	0.72113	0.72113
3 Total Penta-Dioxins	29.63	1.217e3	1.726e3	0.70	NO	0.60750	0.60750
4 Total Penta-Dioxins	29.81	1.044e3	1.655e3	0.62	NO	0.75097	0.00000
5 Total Penta-Dioxins	29.83	8.829e2	1.371e3	0.64	NO	0.61750	0.00000
6 Total Penta-Dioxins	30.11	1.348e3	1.937e3	0.70	NO	0.90089	0.50089
7 Total Penta-Dioxins	30.39	3.132e2	5.510e2	0.57	NO	0.23698	0.23698
8 1,2,3,7,8-PeCDD	30.88	1.024e3	1.732e3	0.59	NO	0.75572	0.75572
9 Total Penta-Dioxins	30.96	3.868e2	5.547e2	0.70	NO	0.25895	0.25895
10 Total Penta-Dioxins	31.24	3.652e2	5.520e2	0.59	NO	0.28438	0.28438



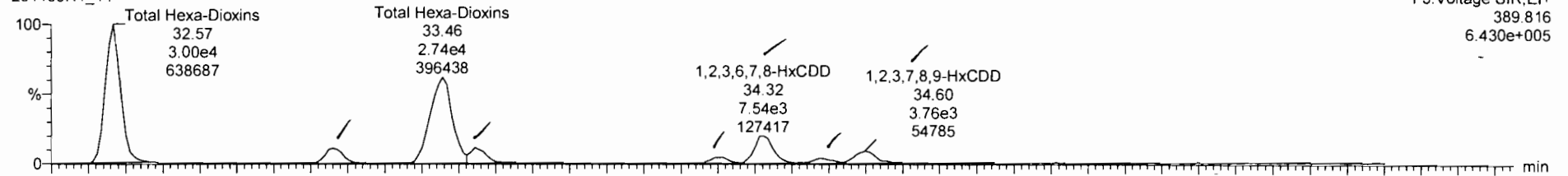
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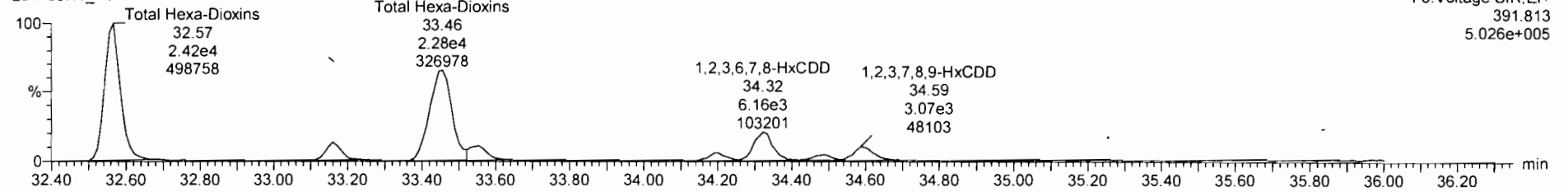
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**1,2,3,4,7,8-HxCDD**

201109R1\_14

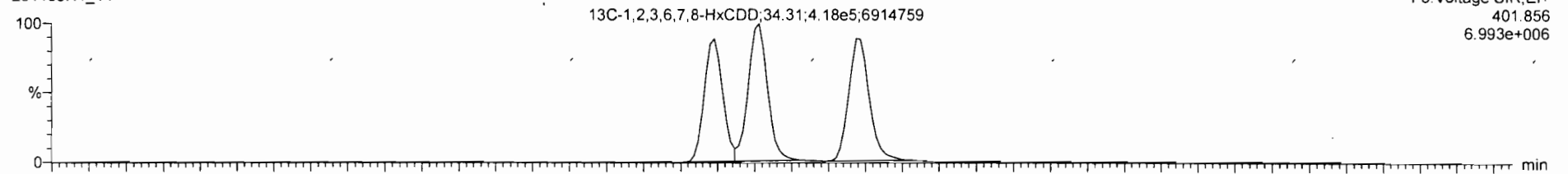


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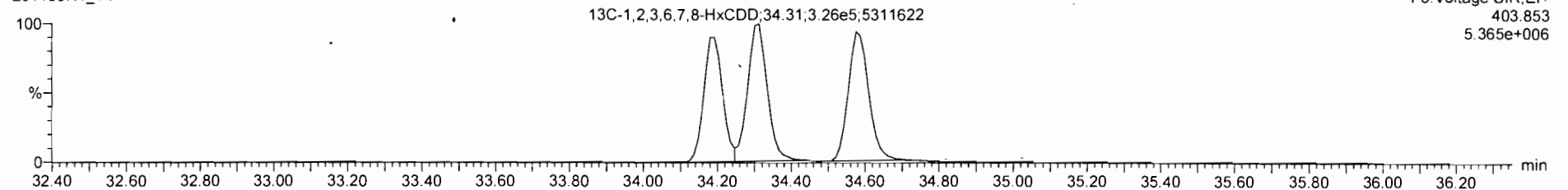


**13C-1,2,3,4,7,8-HxCDD**

201109R1\_14



201109R1\_14



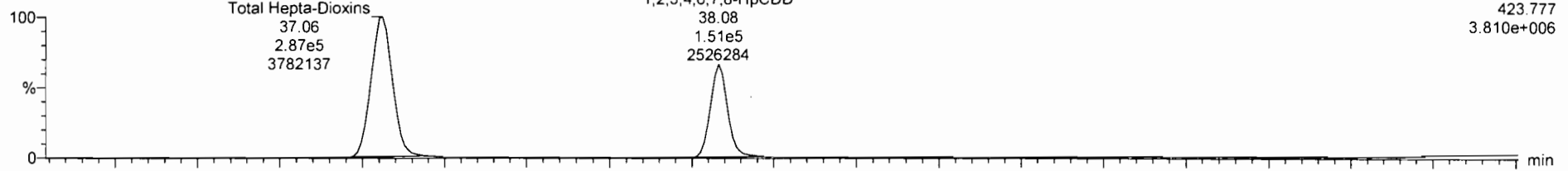
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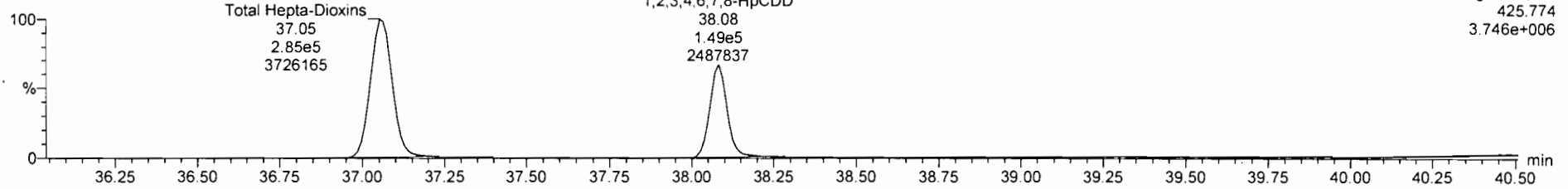
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**1,2,3,4,6,7,8-HpCDD**

201109R1\_14

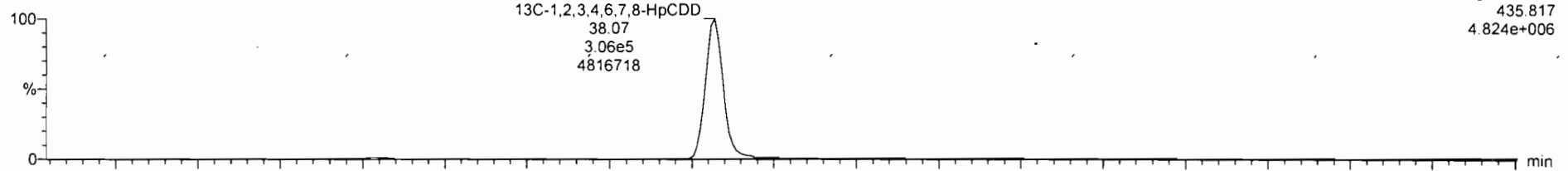


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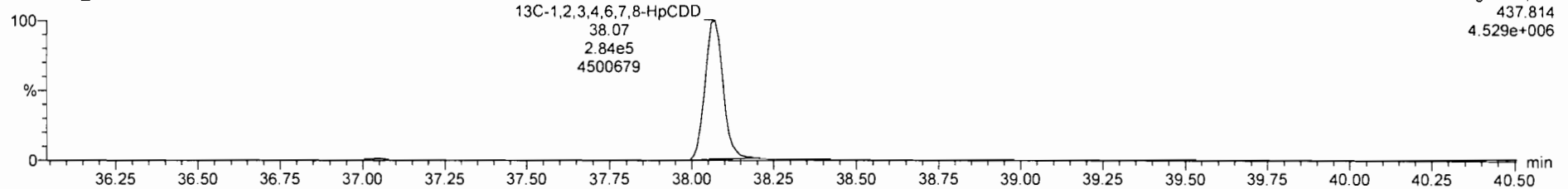


**13C-1,2,3,4,6,7,8-HpCDD**

201109R1\_14



201109R1\_14

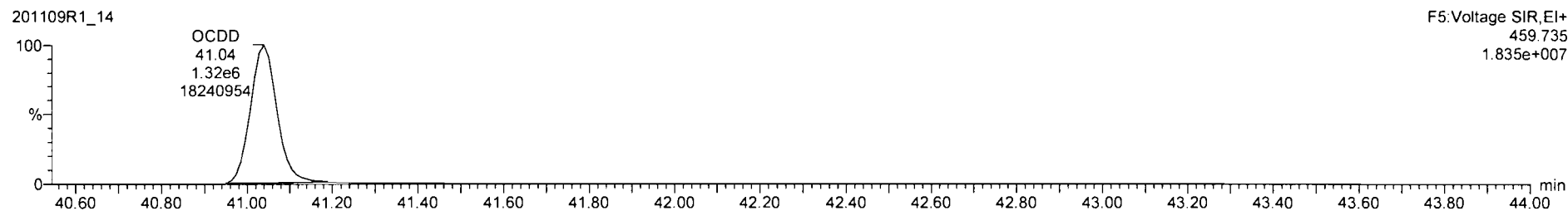
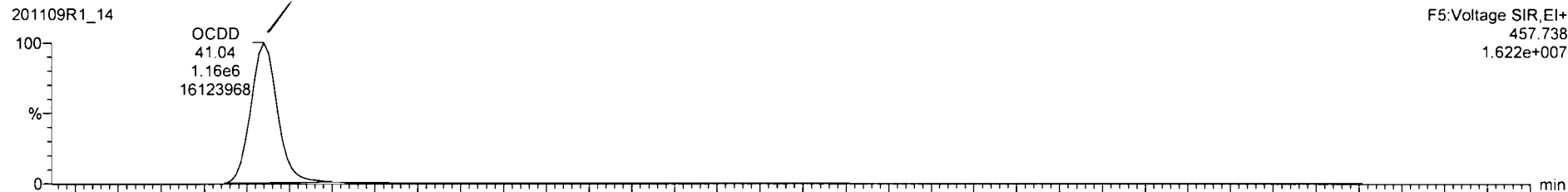


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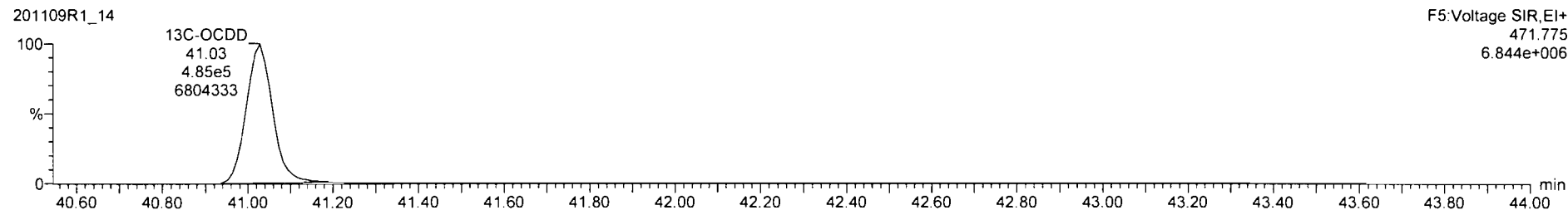
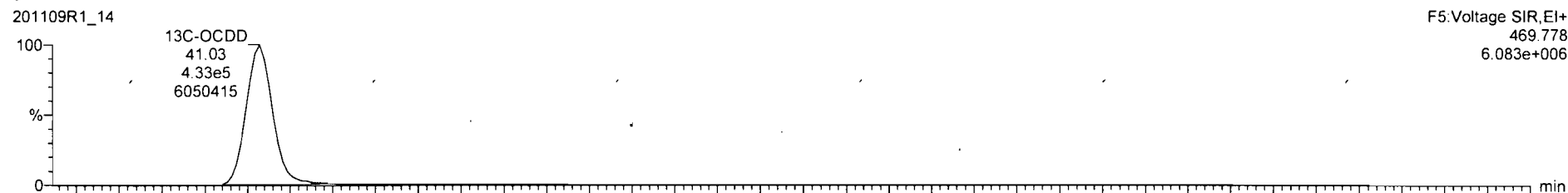
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OCDD



13C-OCDD

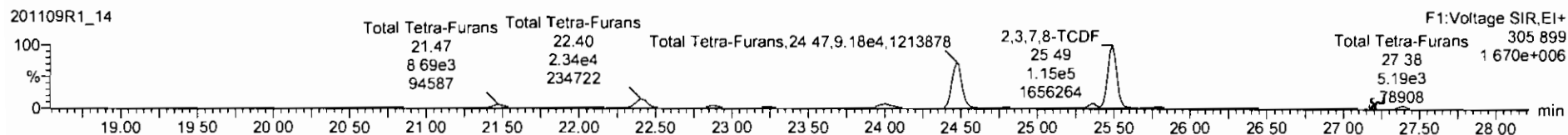
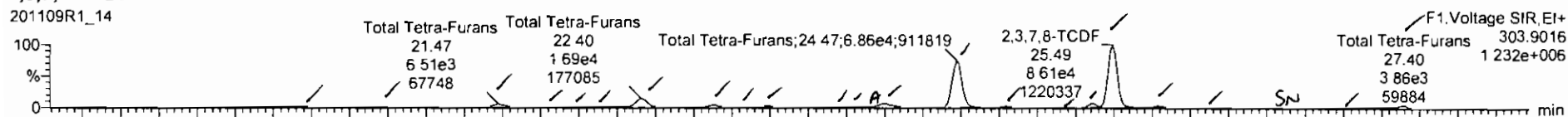


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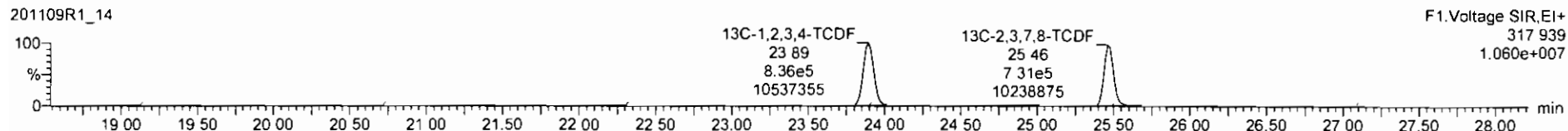
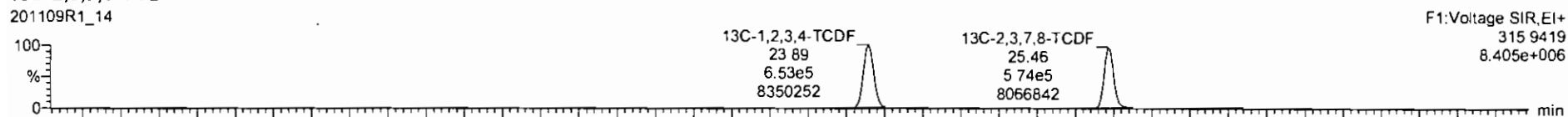
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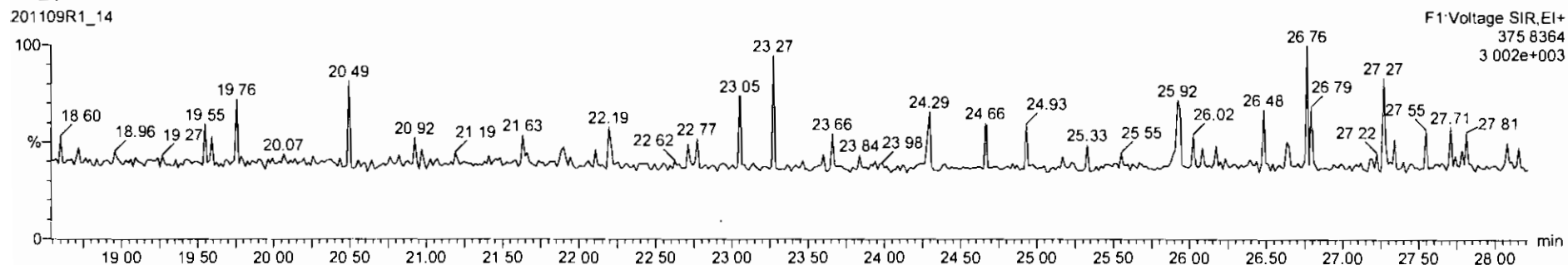
**2,3,7,8-TCDF**



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

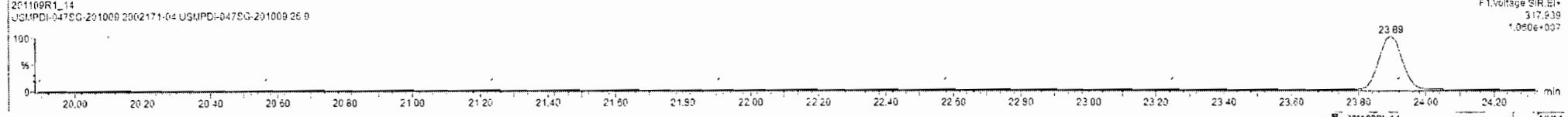
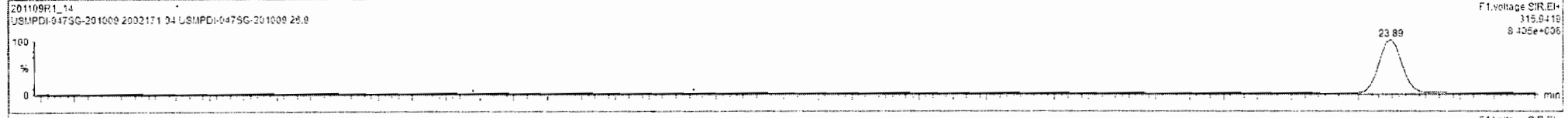
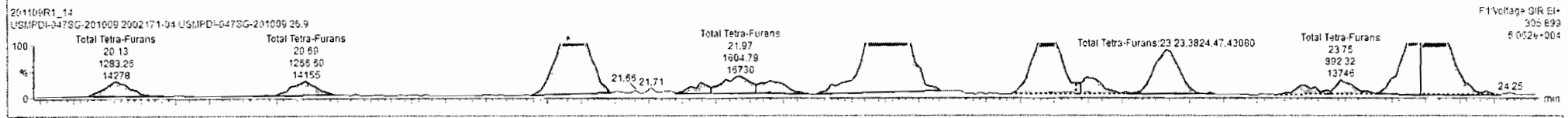
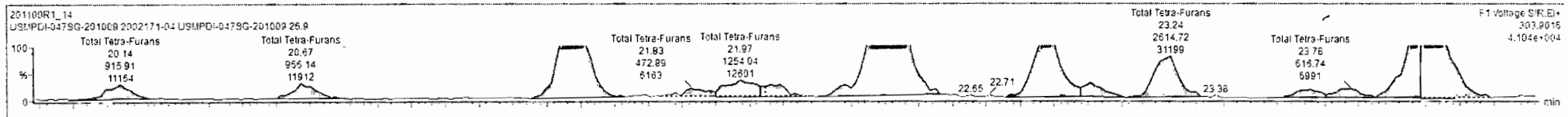


**DPE1**



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EUPC
43 Total Tetra-Furans				0.8243	10.047			88.8		0.104	94.3
44 1st Func. Penta-Furans				0.9628	10.047			6.95		0.0203	9.65
45 Total Penta-Furans				0.9628	10.047			129		0.116	129

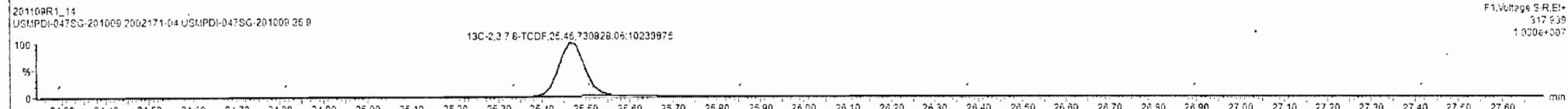
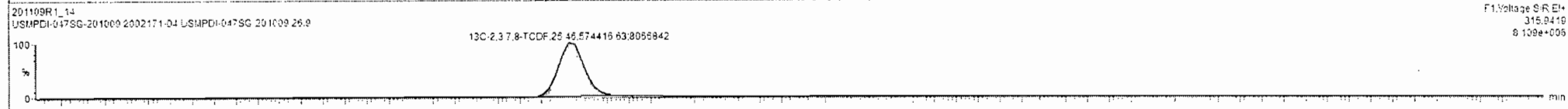
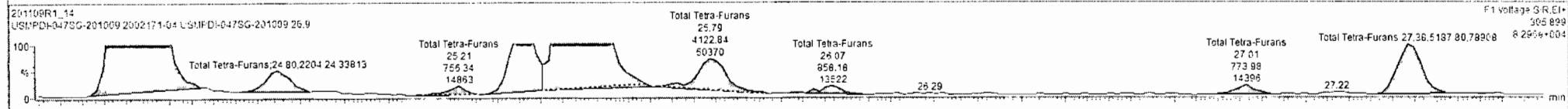
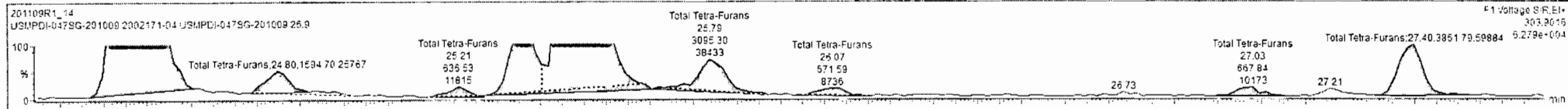
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.14	9.159e2	1.283e3	0.71	HO	0.40690	0.40690
2 Total Tetra-Furans	20.87	9.661e2	1.267e3	0.76	HO	0.41311	0.41311
3 Total Tetra-Furans	21.47	6.510e2	8.685e2	0.75	HO	2.6114	2.6114
4 Total Tetra-Furans	21.83	4.726e2	6.240e2	0.76	HO	0.20295	0.20295
5 Total Tetra-Furans	21.97	1.254e3	1.605e3	0.78	HO	0.52855	0.52855
6 Total Tetra-Furans	22.09	7.301e2	1.113e2	0.96	HO	0.34054	0.34054
7 Total Tetra-Furans	22.10	1.689e4	2.336e4	0.72	HO	7.4462	7.4462
8 Total Tetra-Furans	22.38	4.757e2	6.297e2	0.76	HO	2.0453	2.0453
9 Total Tetra-Furans	23.01	7.290e2	1.045e3	0.70	HO	0.32820	0.32820
10 Total Tetra-Furans	23.24	2.615e2	3.824e2	0.88	HO	1.1914	1.1914
11 Total Tetra-Furans	23.66	5.317e2	7.122e2	0.75	HO	0.23014	0.23014
12 Total Tetra-Furans	23.78	6.167e2	5.923e2	0.89	HO	0.27921	0.27921
13 Total Tetra-Furans	23.98	3.379e3	4.807e3	0.70	HO	1.5146	0.60200
14 Total Tetra-Furans	24.00	6.576e2	6.674e2	0.73	HO	2.6771	0.00000



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Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.047			90.3		0.134	94.7
44 1st Func. Penta-Furans				0.9626	10.047			5.95		0.0203	5.95
45 Total Penta-Furans				0.9626	10.047			129		0.116	129

Name	RT	m1 Reso	m2 Reso	RA	n/y	EMPC	Conc.
10 Total Tetra-Furans	23.24	2.615e3	3.624e3	0.65	NO	1.1914	1.1914
11 Total Tetra-Furans	23.66	5.317e2	7.122e2	0.75	NO	0.23014	0.23014
12 Total Tetra-Furans	23.76	6.167e2	8.923e2	0.69	NO	0.27921	0.27921
13 Total Tetra-Furans	23.56	3.375e3	4.607e3	0.70	NO	1.5146	0.05000
14 Total Tetra-Furans	24.00	6.576e3	8.974e3	0.73	NO	2.9771	0.05000
15 Total Tetra-Furans	24.47	6.860e4	9.177e4	0.75	NO	29.672	25.672
16 Total Tetra-Furans	24.80	1.595e2	2.204e3	0.72	NO	0.70289	0.70289
17 Total Tetra-Furans	25.21	6.365e2	7.563e2	0.84	NO	0.25771	0.25771
18 Total Tetra-Furans	25.36	5.615e3	7.400e3	0.76	NO	2.4082	2.4082
19 2,3,7,8-TCDF	25.49	8.735e4	1.154e5	0.76	NO	37.519	37.519
20 Total Tetra-Furans	25.79	3.095e3	4.123e3	0.75	NO	1.3355	1.3355
21 Total Tetra-Furans	26.07	6.719e2	8.582e2	0.78	NO	0.28304	0.28304
22 Total Tetra-Furans	27.03	6.673e2	7.740e2	0.86	NO	0.26677	0.26677
23 Total Tetra-Furans	27.40	3.862e3	5.188e3	0.74	NO	1.6744	1.6744





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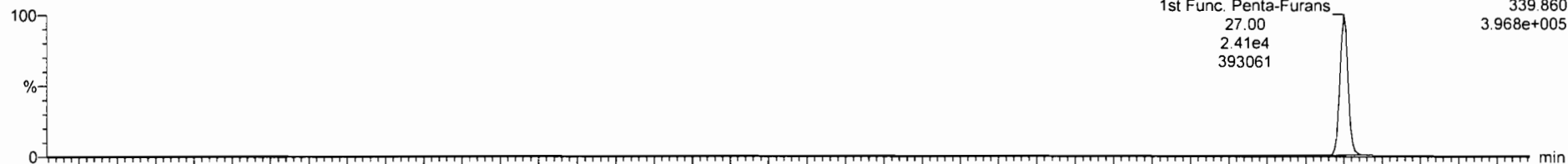
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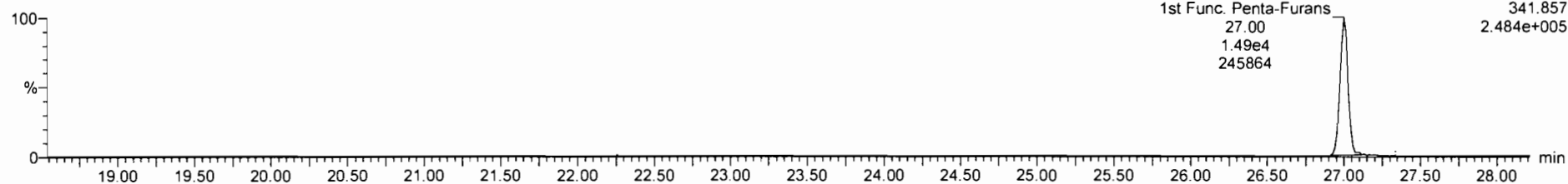
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1st Func. Penta-Furans

201109R1\_14

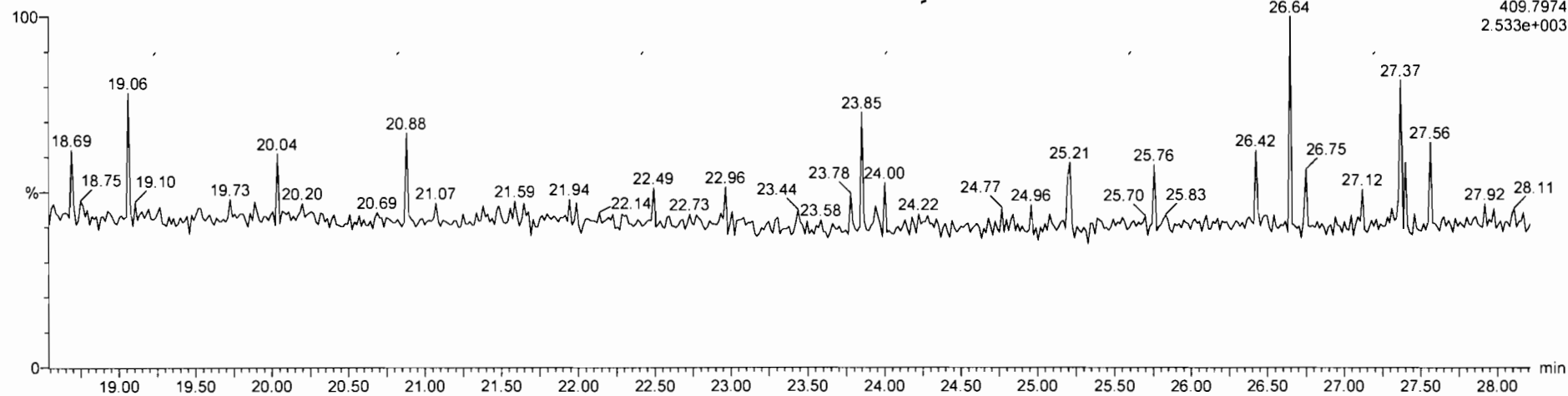


201109R1\_14



DPE6

201109R1\_14



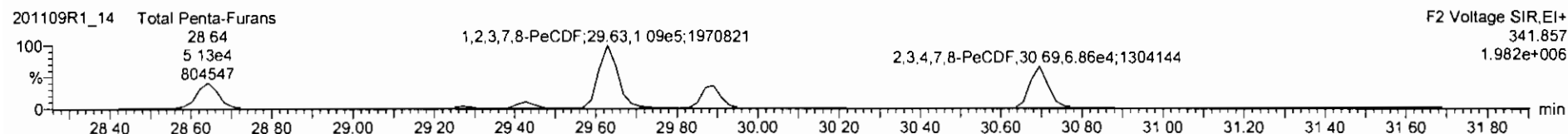
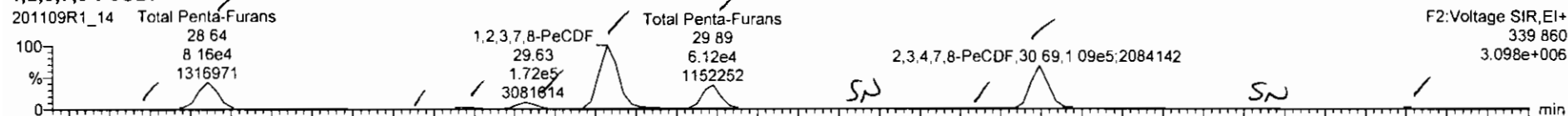
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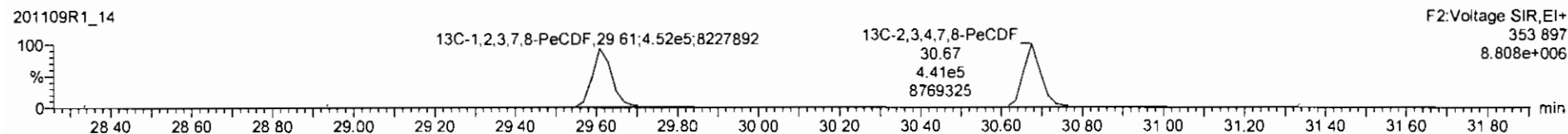
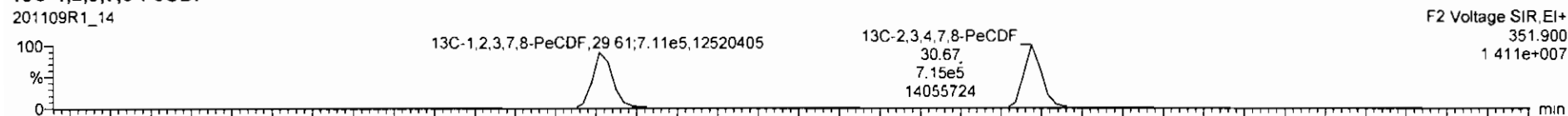
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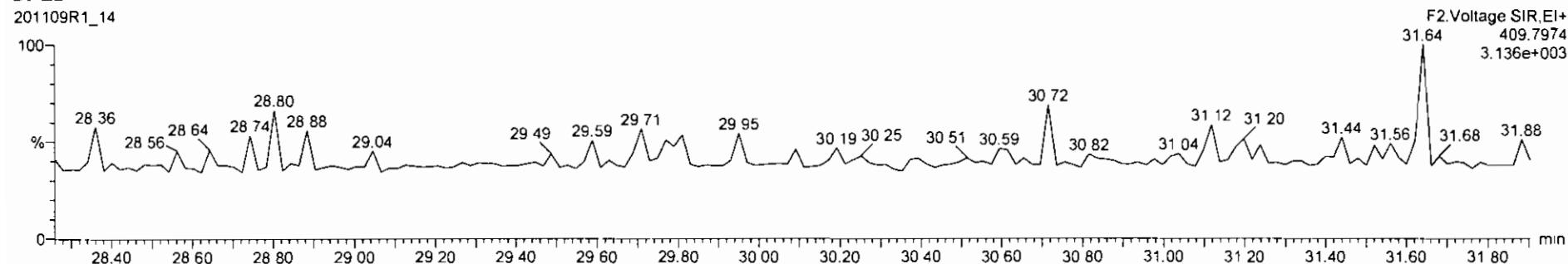
**1,2,3,7,8-PeCDF**



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



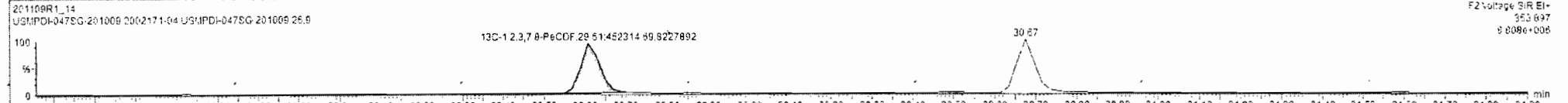
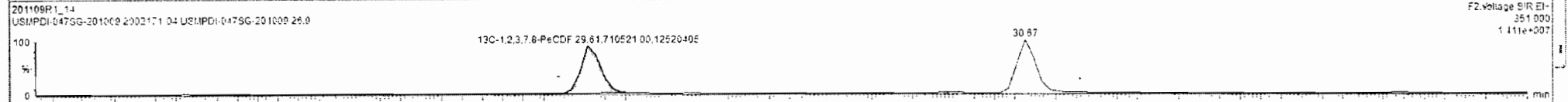
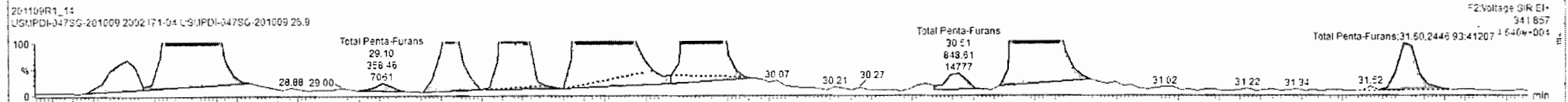
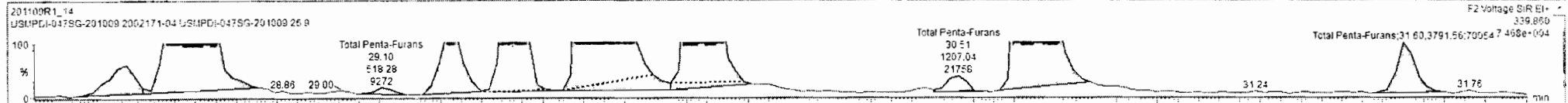
**DPE2**



201109R1\_14 - 2002171-04 USMPDI-047SG-201009 26.9 - USMPDI-047SG-201009

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.047			90.3	0.134	94.7	
44 1st Func. Penta-Furans				0.9626	10.047			5.96	0.0203	8.98	
4E Total Penta-Furans				0.9626	10.047			131	0.118	131	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.48	3.027e3	2.091e3	1.45	NO	0.91256	0.51256
2 Total Penta-Furans	28.84	8.152e4	5.131e4	1.59	NO	23.696	23.696
3 Total Penta-Furans	29.10	5.183e2	3.585e2	1.45	NO	0.15833	0.15833
4 Total Penta-Furans	29.27	5.851e2	3.674e2	1.51	NO	1.7341	1.7341
5 Total Penta-Furans	29.43	1.721e4	1.068e4	1.61	NO	4.9735	4.9735
6 1,2,3,7,8-PeCDF	29.63	1.748e5	1.112e5	1.57	NO	56.825	56.825
7 Total Penta-Furans	29.89	6.252e4	3.946e4	1.58	NO	18.184	18.184
8 Total Penta-Furans	30.51	1.207e3	8.486e2	1.42	NO	0.36654	0.36654
9 2,3,4,7,8-PeCDF	30.29	1.092e5	6.857e4	1.59	NO	28.631	28.631
10 Total Penta-Furans	31.20	3.792e3	2.447e3	1.55	NO	1.1124	1.1124



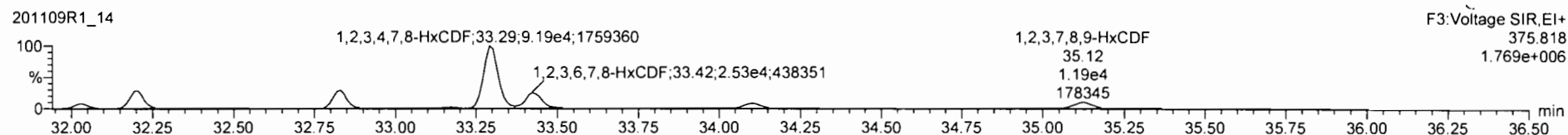
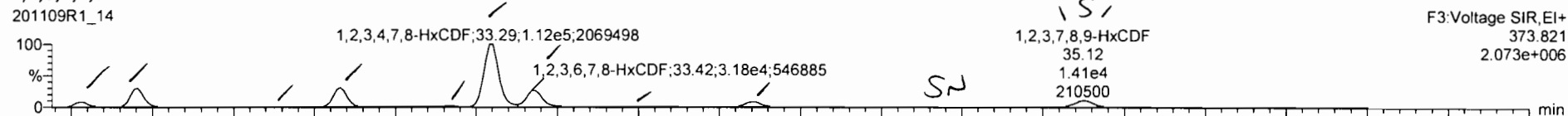
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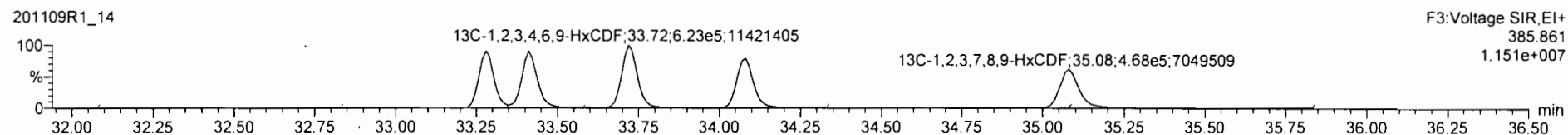
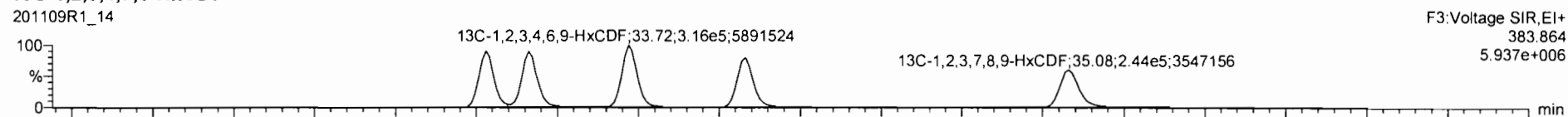
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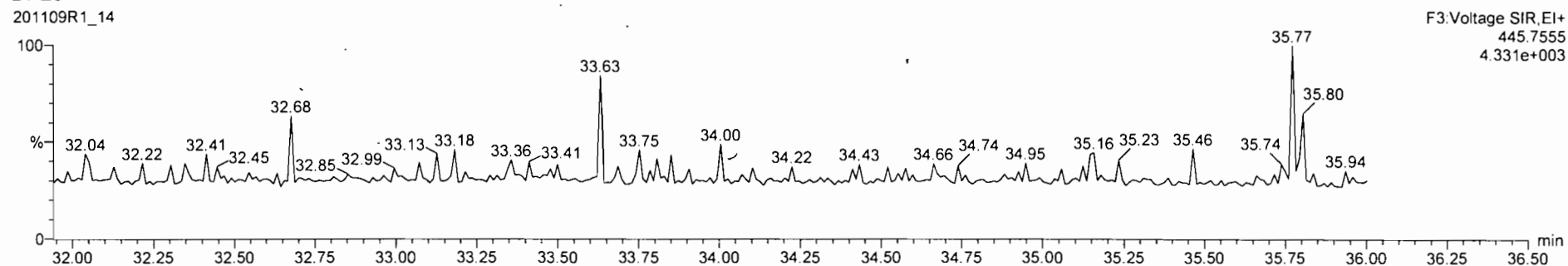
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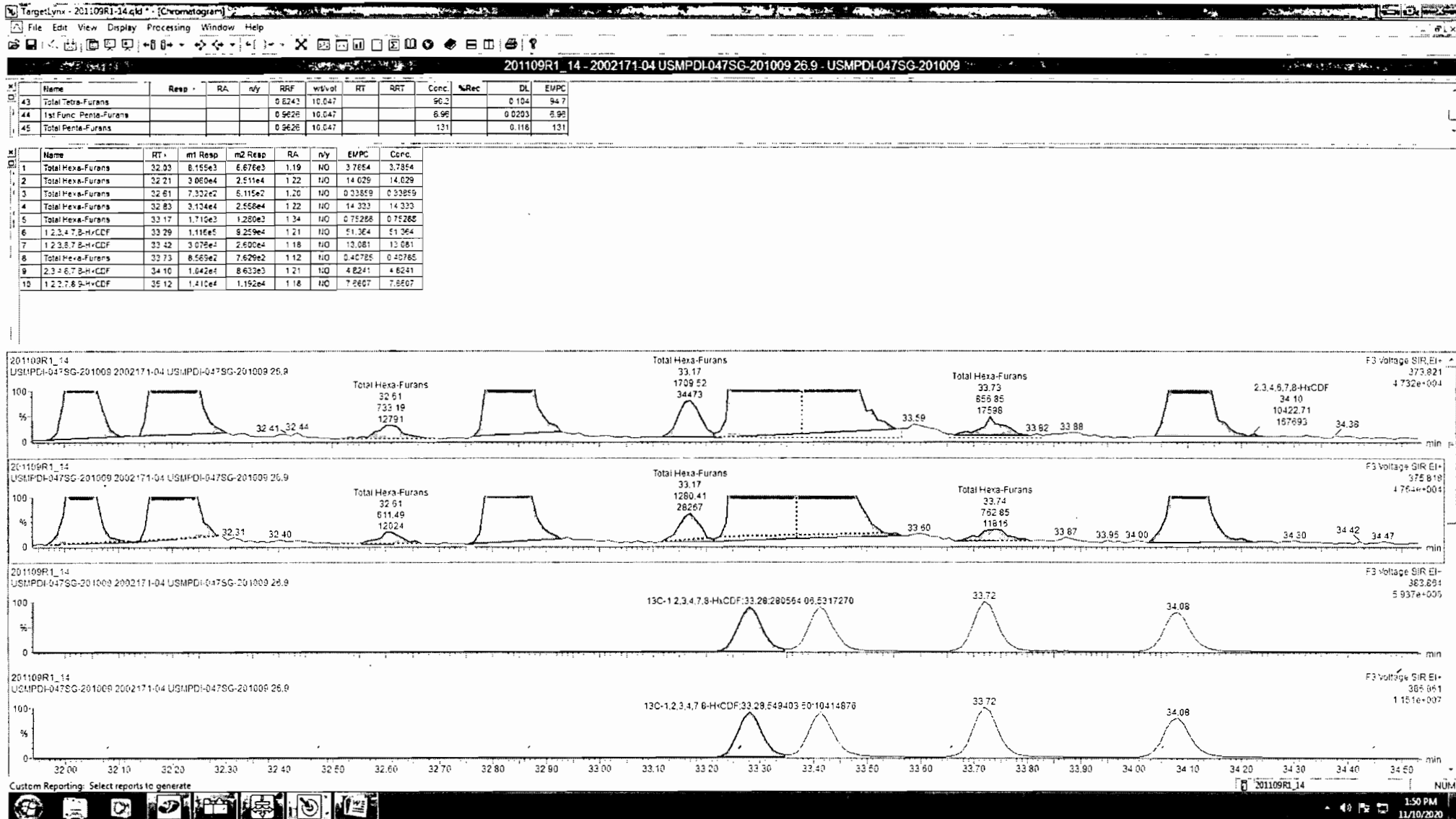


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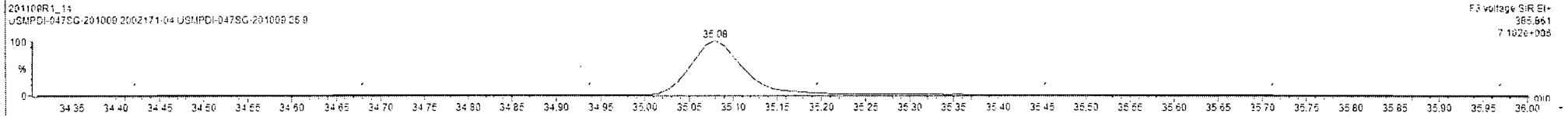
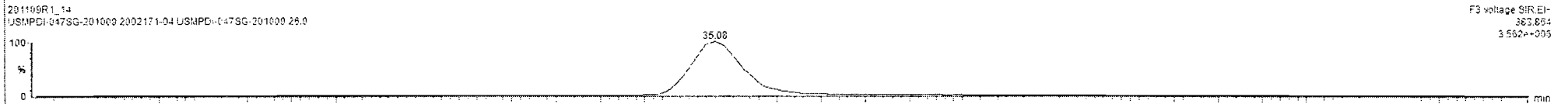
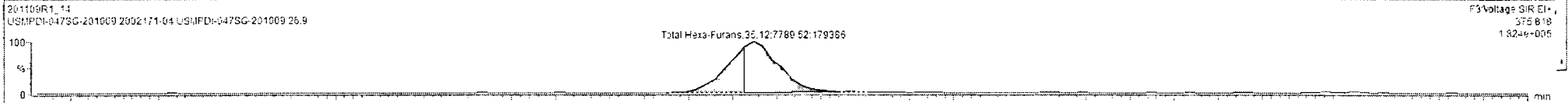
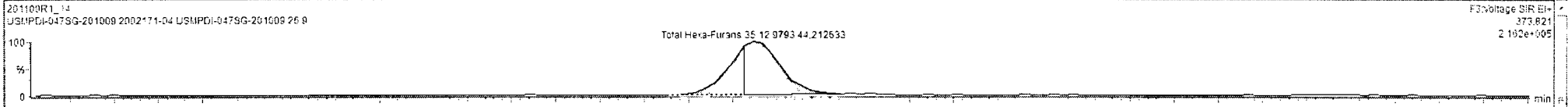
### DPE3





Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.047			90.3		0.104	94.7
44 1st Func. Penta-Furans				0.9626	10.047			6.96		0.3203	8.96
45 Total Penta-Furans				0.9626	10.047			131		0.118	131

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.03	6.155e3	6.878e3	1.19	HQ	3.7854	3.7854
2 Total Hexa-Furans	32.71	3.060e4	2.511e4	1.22	HQ	14.029	14.029
3 Total Hexa-Furans	32.81	7.332e2	6.115e2	1.20	HQ	0.33859	0.33859
4 Total Hexa-Furans	32.83	3.134e4	2.558e4	1.22	HQ	14.333	14.333
5 Total Hexa-Furans	33.17	1.710e3	1.280e3	1.34	HQ	0.75288	0.75288
6 1,2,3,4,7,8-HxCDF	33.29	1.116e5	9.259e4	1.21	HQ	51.364	51.364
7 1,2,3,6,7,8-HxCDF	33.42	3.076e4	2.600e4	1.16	HQ	12.081	12.081
8 Total Hexa-Furans	33.73	8.589e2	7.629e2	1.12	HQ	0.40785	0.40785
9 2,3,4,6,7,8-HxCDF	34.10	1.642e4	8.633e3	1.21	HQ	4.8241	4.8241
10 1,2,3,7,8,9-HxCDF	35.11	4.813e3	4.186e3	1.10	HQ	2.5906	2.5906
11 Total Hexa-Furans	35.12	9.792e3	7.790e3	1.26	HQ	4.4275	4.4275



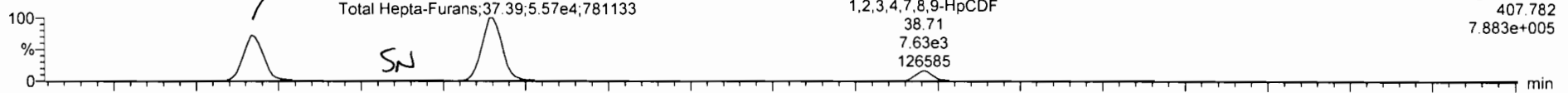
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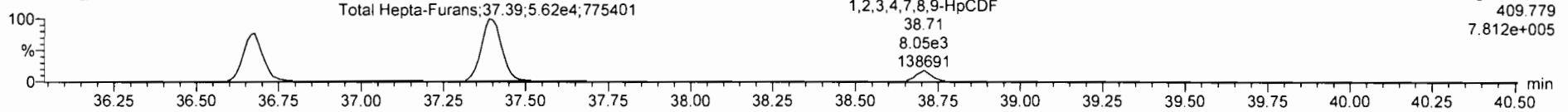
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**1,2,3,4,6,7,8-HpCDF**

201109R1\_14

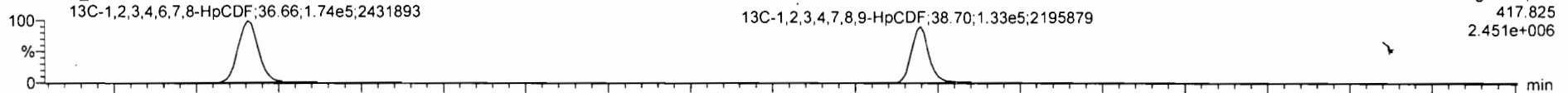


201109R1\_14

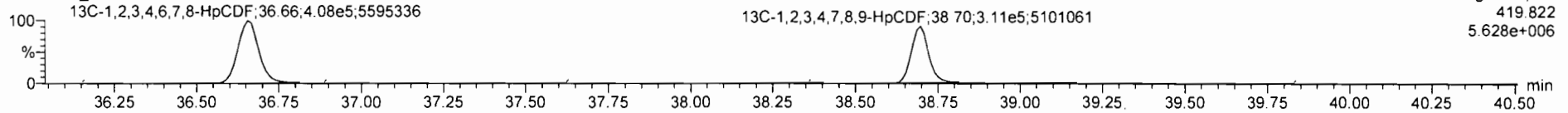


**13C-1,2,3,4,6,7,8-HpCDF**

201109R1\_14

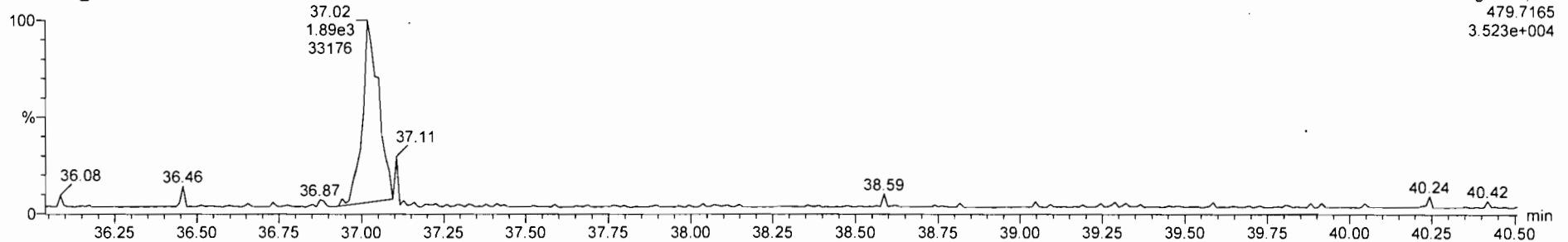


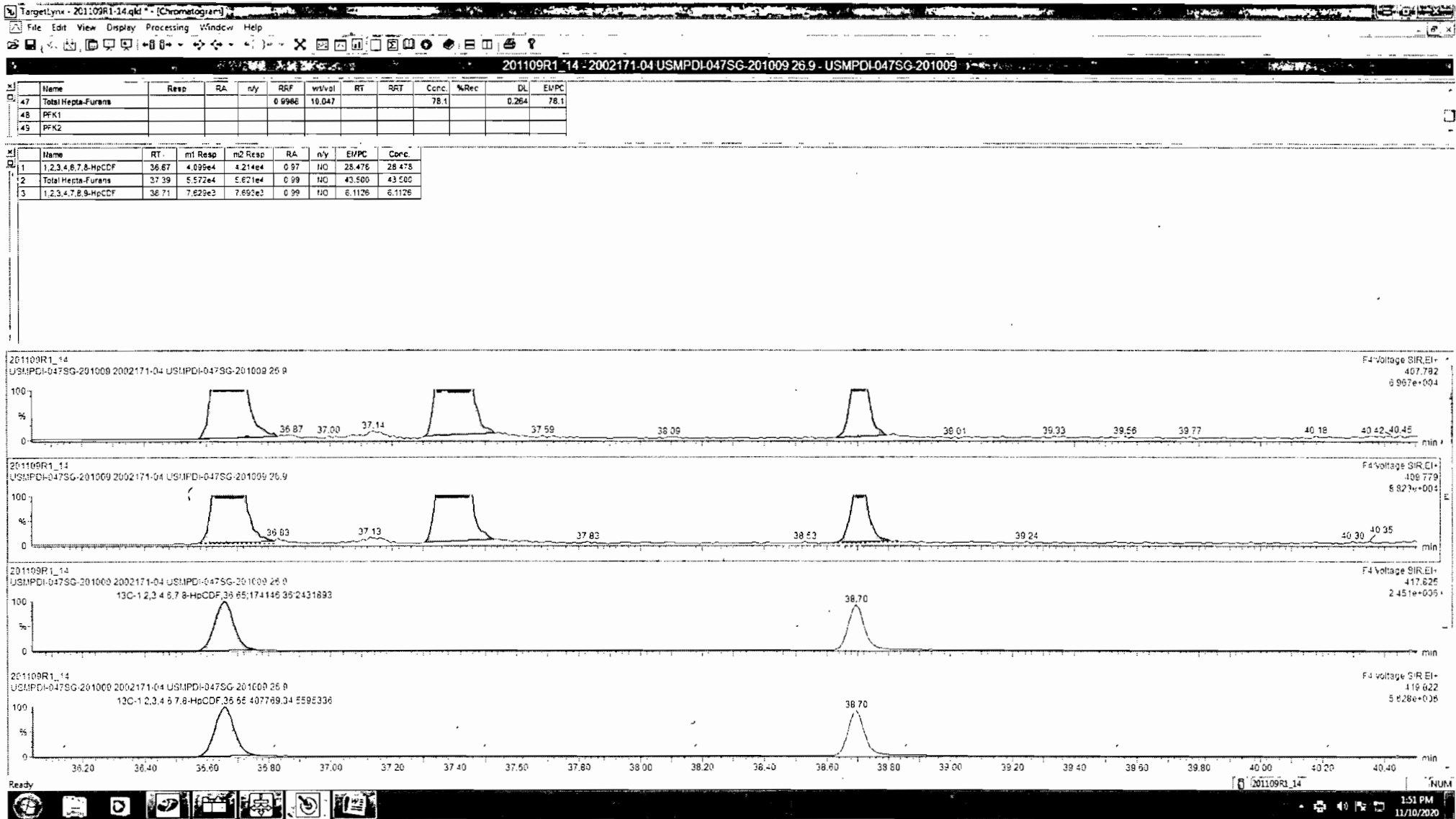
201109R1\_14



**DPE4**

201109R1\_14







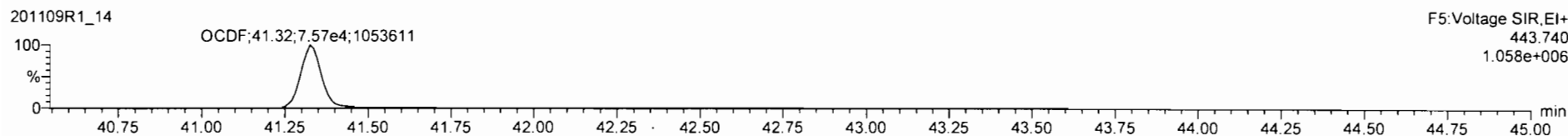
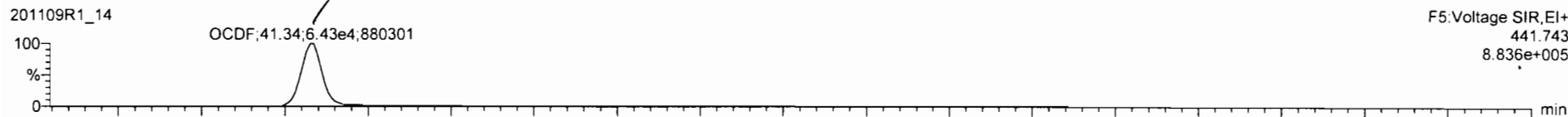
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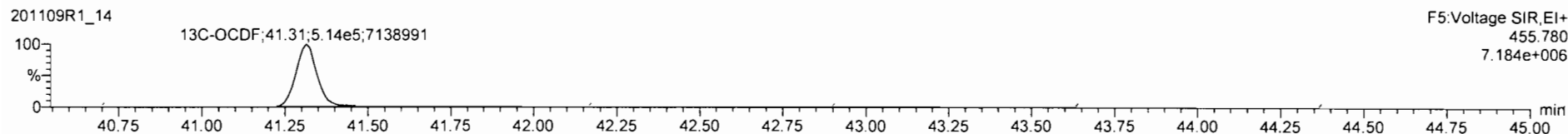
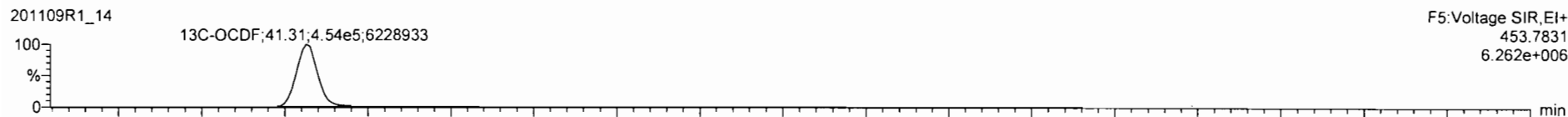
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Name: 201109R1\_14, Date: 09-Nov-2020, Time: 17:49:45, ID: 2002171-04 USMPDI-047SG-201009 26.9, Description: USMPDI-047SG-201009

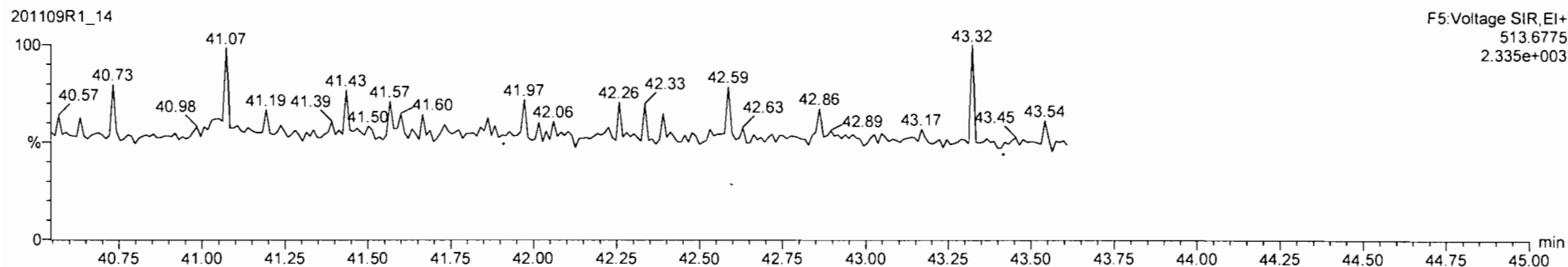
**OCDF**



**13C-OCDF**



**DPE5**

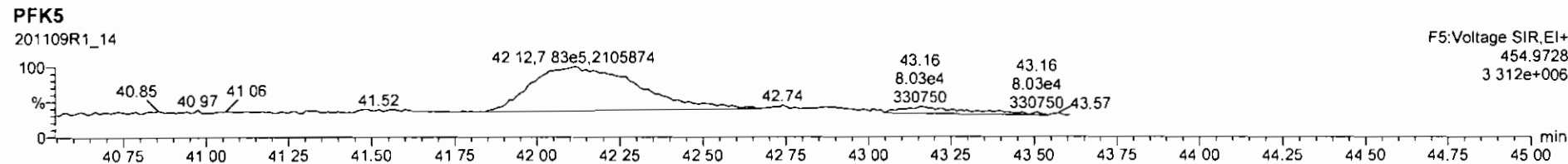
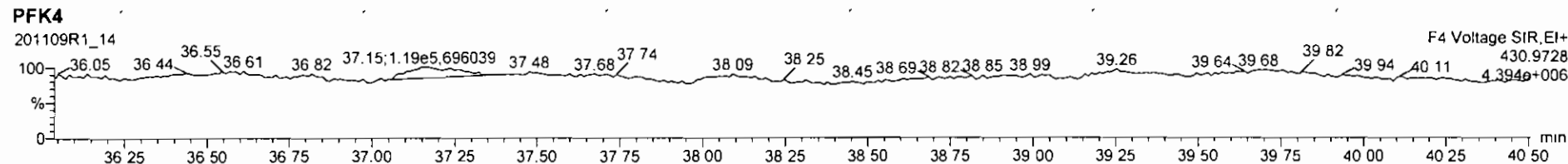
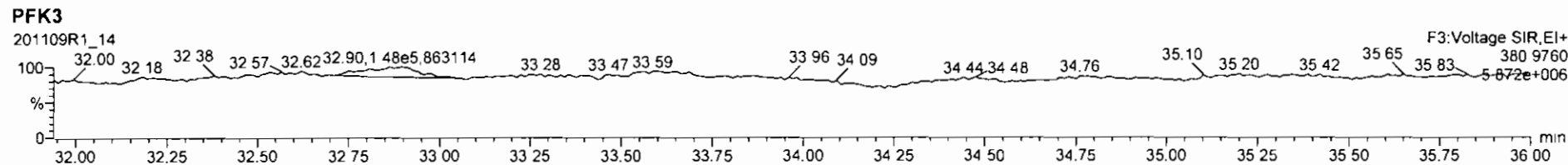
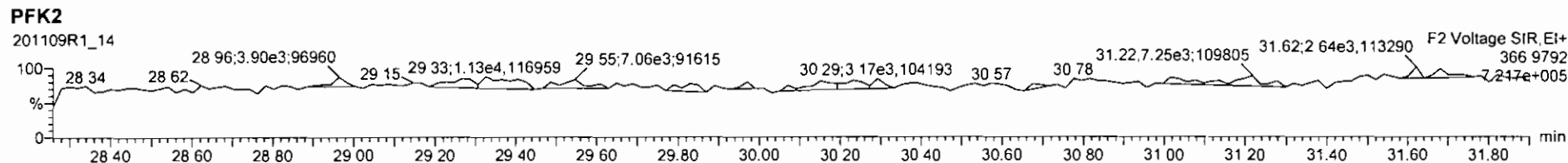
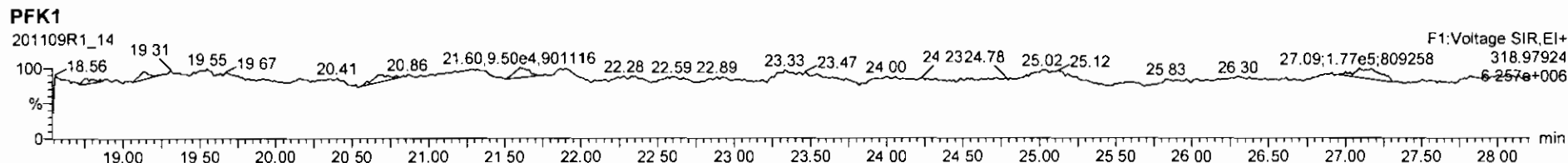


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Last Altered: Tuesday, November 10, 2020 7:12:11 AM Pacific Standard Time

Printed: Tuesday, November 10, 2020 7:12:18 AM Pacific Standard Time

Name: 201109R1\_14, Date: 09-Nov-2020, Time: 17:49:45, ID: 2002171-04 USMPDI-047SG-201009 26.9, Description: USMPDI-047SG-201009



Dataset: U:\VG12.PRO\Results\201109R1\201109R1-15.qld

Last Altered: Tuesday, November 10, 2020 14:15:42 Pacific Standard Time  
Printed: Tuesday, November 10, 2020 14:16:03 Pacific Standard Time

GPB 11/10/2020

CT 11/12/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201109R1\_15, Date: 09-Nov-2020, Time: 18:34:36, ID: 2002171-05 USMPDI-050SG-201009 29.13, Description: USMPDI-050SG-201009

#	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	1.26e3	0.36	YES	0.950	10.067	26.171	26.16	1.001	1.001	0.23785		0.0451	0.143
2	1,2,3,7,8-PeCDD	1.81e3	0.67	NO	0.885	10.067	30.865	30.88	1.000	1.001	0.45788		0.0741	0.458
3	1,2,3,4,7,8-HxCDD	2.79e3	1.09	NO	1.02	10.067	34.207	34.19	1.001	1.000	0.79099		0.180	0.791
4	1,2,3,6,7,8-HxCDD	9.13e3	1.19	NO	0.915	10.067	34.311	34.31	1.000	1.000	2.4531		0.174	2.45
5	1,2,3,7,8,9-HxCDD	4.97e3	1.15	NO	0.934	10.067	34.585	34.60	1.000	1.001	1.3611		0.188	1.36
6	1,2,3,4,6,7,8-HpCDD	2.05e5	1.03	NO	0.870	10.067	38.070	38.08	1.000	1.000	74.760		0.725	74.8
7	OCDD	1.63e6	0.88	NO	0.872	10.067	41.028	41.04	1.000	1.000	752.23		0.651	752
8	2,3,7,8-TCDF	2.45e4	0.75	NO	0.824	10.067	25.470	25.48	1.000	1.001	3.9275		0.0500	3.93
9	1,2,3,7,8-PeCDF	1.89e4	1.60	NO	0.963	10.067	29.597	29.61	1.000	1.001	3.0920		0.0859	3.09
10	1,2,3,4,7,8-PeCDF	1.57e4	1.69	NO	1.07	10.067	30.675	30.67	1.000	1.000	2.3069		0.0753	2.31
11	1,2,3,4,7,8-HxCDF	2.47e4	1.20	NO	0.953	10.067	33.280	33.29	1.000	1.000	5.6960		0.129	5.70
12	1,2,3,6,7,8-HxCDF	7.38e3	1.15	NO	1.01	10.067	33.412	33.42	1.000	1.000	1.5916		0.128	1.59
13	2,3,4,6,7,8-HxCDF	3.54e3	1.12	NO	0.991	10.067	34.073	34.10	1.000	1.001	0.82240		0.137	0.822
14	1,2,3,7,8,9-HxCDF	1.58e3	1.07	NO	0.951	10.067	35.080	35.11	1.000	1.001	0.43114		0.194	0.431
15	1,2,3,4,6,7,8-HpCDF	3.59e4	0.99	NO	0.999	10.067	36.670	36.68	1.000	1.000	11.221		0.186	11.2
16	1,2,3,4,7,8,9-HpCDF	3.59e3	1.11	NO	1.12	10.067	38.696	38.72	1.000	1.001	1.2852		0.183	1.29
17	OCDF	6.40e4	0.86	NO	0.868	10.067	41.322	41.33	1.000	1.000	27.685		0.160	27.7
18	13C-2,3,7,8-TCDD	1.11e6	0.82	NO	1.11	10.067	26.116	26.14	1.029	1.030	200.66	101	0.163	
19	13C-1,2,3,7,8-PeCDD	8.87e5	0.64	NO	0.859	10.067	30.727	30.86	1.211	1.216	207.22	104	0.301	
20	13C-1,2,3,4,7,8-HxCDD	6.88e5	1.28	NO	0.700	10.067	34.167	34.18	1.013	1.014	196.02	98.7	0.386	
21	13C-1,2,3,6,7,8-HxCDD	8.09e5	1.26	NO	0.833	10.067	34.296	34.30	1.017	1.017	193.67	97.5	0.324	
22	13C-1,2,3,7,8,9-HxCDD	7.77e5	1.23	NO	0.762	10.067	34.565	34.58	1.025	1.025	203.32	102	0.354	
23	13C-1,2,3,4,6,7,8-HpCDD	6.28e5	1.05	NO	0.650	10.067	38.001	38.07	1.127	1.129	192.72	97.0	0.743	
24	13C-OCDD	9.86e5	0.89	NO	0.539	10.067	40.931	41.03	1.214	1.217	364.55	91.7	0.771	
25	13C-2,3,7,8-TCDF	1.51e6	0.77	NO	0.981	10.067	25.452	25.46	1.003	1.004	195.84	98.6	0.196	
26	13C-1,2,3,7,8-PeCDF	1.26e6	1.60	NO	0.792	10.067	29.488	29.59	1.162	1.166	203.09	102	0.615	
27	13C-2,3,4,7,8-PeCDF	1.27e6	1.58	NO	0.778	10.067	30.539	30.67	1.204	1.209	207.97	105	0.626	
28	13C-1,2,3,4,7,8-HxCDF	9.02e5	0.51	NO	0.954	10.067	33.271	33.28	0.987	0.987	188.60	94.9	0.560	
29	13C-1,2,3,6,7,8-HxCDF	9.14e5	0.51	NO	1.01	10.067	33.409	33.41	0.991	0.991	181.23	91.2	0.531	
30	13C-2,3,4,6,7,8-HxCDF	8.63e5	0.51	NO	0.921	10.067	34.066	34.07	1.010	1.010	186.83	94.0	0.580	
31	13C-1,2,3,7,8,9-HxCDF	7.64e5	0.50	NO	0.803	10.067	35.064	35.08	1.040	1.040	189.75	95.5	0.665	

Dataset: U:\VG12.PRO\Results\201109R1\201109R1-15.qld

Last Altered: Tuesday, November 10, 2020 14:15:42 Pacific Standard Time

Printed: Tuesday, November 10, 2020 14:16:03 Pacific Standard Time

Name: 201109R1\_15, Date: 09-Nov-2020, Time: 18:34:36, ID: 2002171-05 USMPDI-050SG-201009 29.13, Description: USMPDI-050SG-201009

#	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	6.36e5	0.43	NO	0.735	10.067	36.629	36.67	1.086	1.087	172.53	86.8	0.572	
33	13C-1,2,3,4,7,8,9-HpCDF	4.93e5	0.44	NO	0.568	10.067	38.612	38.70	1.145	1.148	173.29	87.2	0.741	
34	13C-OCDF	1.06e6	0.87	NO	0.629	10.067	41.221	41.31	1.222	1.225	335.30	84.4	0.513	
35	37Cl-2,3,7,8-TCDD	4.93e5			1.09	10.067	26.134	26.16	1.030	1.031	90.826	114	0.0759	
36	13C-1,2,3,4-TCDD	9.91e5	0.80	NO	1.00	10.067	25.430	25.37	1.000	1.000	198.67	100	0.181	
37	13C-1,2,3,4-TCDF	1.56e6	0.80	NO	1.00	10.067	24.130	23.90	1.000	1.000	198.67	100	0.192	
38	13C-1,2,3,4,6,9-HxCDF	9.96e5	0.51	NO	1.00	10.067	33.840	33.72	1.000	1.000	198.67	100	0.534	
39	Total Tetra-Dioxins				0.950	10.067	24.620		0.000		1.8785		0.0451	2.08
40	Total Penta-Dioxins				0.885	10.067	29.960		0.000		4.6987		0.0741	5.44
41	Total Hexa-Dioxins				0.915	10.067	33.635		0.000		31.214		0.188	31.2
42	Total Hepta-Dioxins				0.870	10.067	37.640		0.000		222.10		0.725	222
43	Total Tetra-Furans				0.824	10.067	23.610		0.000		12.844		0.0500	12.8
44	1st Func. Penta-Furans				0.963	10.067	27.230		0.000		2.7033		0.0217	2.70
45	Total Penta-Furans				0.963	10.067	29.275		0.000		11.137		0.0847	11.1
46	Total Hexa-Furans				0.991	10.067	33.555		0.000		25.161		0.143	25.2
47	Total Hepta-Furans				0.999	10.067	37.835		0.000		33.905		0.195	33.9

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Dataset: U:\VG12.PRO\Results\201109R1\201109R1-15.qld

Last Altered: Tuesday, November 10, 2020 14:15:42 Pacific Standard Time

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Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\ddbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201109R1\_15, Date: 09-Nov-2020, Time: 18:34:36, ID: 2002171-05 USMPDI-050SG-201009 29.13, Description: USMPDI-050SG-201009

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	22.36	1.316e4	1.360e4	9.662e2	1.167e3	0.83	NO	2.133e3	0.40206	0.40206	0.0451
2	Total Tetra-Dioxins	22.73	4.836e3	6.225e3	4.304e2	5.577e2	0.77	NO	9.881e2	0.18621	0.18621	0.0451
3	Total Tetra-Dioxins	23.24	2.852e3	4.811e3	2.000e2	3.017e2	0.66	NO	5.017e2	0.094554	0.094554	0.0451
4	Total Tetra-Dioxins	24.07	4.698e3	4.852e3	3.000e2	4.090e2	0.73	NO	7.090e2	0.13361	0.13361	0.0451
5	Total Tetra-Dioxins	24.28	4.897e3	5.878e3	4.693e2	5.932e2	0.79	NO	1.062e3	0.20023	0.20023	0.0451
6	Total Tetra-Dioxins	24.55	4.223e3	4.991e3	2.498e2	3.497e2	0.71	NO	5.996e2	0.11299	0.11299	0.0451
7	Total Tetra-Dioxins	24.72	1.924e3	3.377e3	1.232e2	1.667e2	0.74	NO	2.899e2	0.054640	0.054640	0.0451
8	Total Tetra-Dioxins	25.91	2.062e4	2.783e4	1.638e3	2.045e3	0.80	NO	3.684e3	0.69422	0.69422	0.0451
9	2,3,7,8-TCDD	26.16	5.571e3	1.214e4	3.309e2	9.296e2	0.36	YES	1.261e3	0.00000	0.14337	0.0451
10	Total Tetra-Dioxins	26.50	3.179e3	4.878e3	1.362e2	2.581e2	0.53	YES	0.000e0	0.00000	0.059005	0.0451

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	28.60	1.853e4	3.094e4	1.594e3	2.712e3	0.59	NO	4.306e3	1.0891	1.0891	0.0741
2	Total Penta-Dioxins	29.08	1.973e4	3.349e4	1.036e3	1.752e3	0.59	NO	2.788e3	0.70510	0.70510	0.0741
3	Total Penta-Dioxins	29.61	1.353e4	1.574e4	7.414e2	1.058e3	0.70	NO	1.799e3	0.45507	0.45507	0.0741
4	Total Penta-Dioxins	29.81	1.390e4	1.856e4	1.213e3	1.708e3	0.71	NO	0.000e0	0.00000	0.73871	0.0741
5	Total Penta-Dioxins	30.09	2.339e4	3.397e4	1.800e3	2.575e3	0.70	NO	4.375e3	1.1064	1.1064	0.0741
6	Total Penta-Dioxins	30.39	9.725e3	1.740e4	5.903e2	1.052e3	0.56	NO	1.642e3	0.41539	0.41539	0.0741
7	1,2,3,7,8-PeCDD	30.88	1.226e4	1.960e4	7.255e2	1.085e3	0.67	NO	1.810e3	0.45788	0.45788	0.0741
8	Total Penta-Dioxins	30.96	5.831e3	9.578e3	3.390e2	5.947e2	0.57	NO	9.337e2	0.23613	0.23613	0.0741
9	Total Penta-Dioxins	31.24	6.719e3	9.594e3	3.610e2	5.629e2	0.64	NO	9.240e2	0.23368	0.23368	0.0741

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Dataset: U:\VG12.PRO\Results\201109R1\201109R1-15.qld

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Name: 201109R1\_15, Date: 09-Nov-2020, Time: 18:34:36, ID: 2002171-05 USMPDI-050SG-201009 29.13, Description: USMPDI-050SG-201009

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	32.56	3.903e5	3.142e5	2.067e4	1.682e4	1.23	NO	3.749e4	10.747	10.747	0.188
2 Total Hexa-Dioxins	33.16	6.886e4	5.617e4	3.872e3	3.189e3	1.21	NO	7.061e3	2.0241	2.0241	0.188
3 Total Hexa-Dioxins	33.46	2.503e5	2.079e5	1.918e4	1.547e4	1.24	NO	3.465e4	9.9318	9.9318	0.188
4 Total Hexa-Dioxins	33.54	8.365e4	7.251e4	4.707e3	3.890e3	1.21	NO	8.597e3	2.4643	2.4643	0.188
5 1,2,3,4,7,8-HxCDD	34.19	2.508e4	1.982e4	1.456e3	1.331e3	1.09	NO	2.787e3	0.79099	0.79099	0.180
6 1,2,3,6,7,8-HxCDD	34.31	7.896e4	6.530e4	4.957e3	4.176e3	1.19	NO	9.133e3	2.4531	2.4531	0.174
7 Total Hexa-Dioxins	34.49	4.340e4	3.093e4	2.752e3	2.280e3	1.21	NO	5.031e3	1.4423	1.4423	0.188
8 1,2,3,7,8,9-HxCDD	34.60	4.545e4	3.093e4	2.663e3	2.310e3	1.15	NO	4.973e3	1.3611	1.3611	0.188

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	37.06	2.522e6	2.421e6	2.039e5	2.010e5	1.01	NO	4.049e5	147.34	147.34	0.725
2 1,2,3,4,6,7,8-HpCDD	38.08	1.549e6	1.498e6	1.043e5	1.012e5	1.03	NO	2.055e5	74.760	74.760	0.725

Dataset: U:\VG12.PRO\Results\201109R1\201109R1-15.qld

Last Altered: Tuesday, November 10, 2020 14:15:42 Pacific Standard Time

Printed: Tuesday, November 10, 2020 14:16:03 Pacific Standard Time

Name: 201109R1\_15, Date: 09-Nov-2020, Time: 18:34:36, ID: 2002171-05 USMPDI-050SG-201009 29.13, Description: USMPDI-050SG-201009

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Furans	20.14	4.809e3	4.718e3	3.282e2	4.300e2	0.76	NO	7.581e2	0.12134	0.12134	0.0500
2	Total Tetra-Furans	20.70	5.060e3	5.520e3	4.208e2	4.911e2	0.86	NO	9.119e2	0.14595	0.14595	0.0500
3	Total Tetra-Furans	21.49	2.256e4	3.229e4	2.054e3	2.940e3	0.70	NO	4.994e3	0.79929	0.79929	0.0500
4	Total Tetra-Furans	22.40	3.305e4	4.094e4	3.147e3	4.218e3	0.75	NO	7.365e3	1.1788	1.1788	0.0500
5	Total Tetra-Furans	22.88	1.764e4	1.666e4	1.250e3	1.488e3	0.84	NO	2.737e3	0.43809	0.43809	0.0500
6	Total Tetra-Furans	23.01	4.677e3	6.179e3	4.212e2	5.708e2	0.74	NO	9.920e2	0.15877	0.15877	0.0500
7	Total Tetra-Furans	23.23	8.550e3	1.384e4	7.379e2	1.119e3	0.66	NO	1.857e3	0.29721	0.29721	0.0500
8	Total Tetra-Furans	23.66	3.768e3	4.909e3	2.791e2	3.846e2	0.73	NO	6.638e2	0.10623	0.10623	0.0500
9	Total Tetra-Furans	23.75	5.545e3	3.785e3	2.421e2	2.991e2	0.81	NO	5.411e2	0.086608	0.086608	0.0500
10	Total Tetra-Furans	23.97	1.837e4	2.482e4	1.464e3	2.029e3	0.72	NO	3.493e3	0.55903	0.55903	0.0500
11	Total Tetra-Furans	24.04	1.607e4	2.306e4	1.156e3	1.469e3	0.79	NO	2.625e3	0.42012	0.42012	0.0500
12	Total Tetra-Furans	24.47	1.108e5	1.459e5	8.258e3	1.064e4	0.78	NO	1.890e4	3.0242	3.0242	0.0500
13	Total Tetra-Furans	24.78	7.503e3	9.966e3	4.820e2	6.916e2	0.70	NO	1.174e3	0.18784	0.18784	0.0500
14	Total Tetra-Furans	25.18	3.929e3	5.445e3	2.287e2	2.985e2	0.77	NO	5.271e2	0.084369	0.084369	0.0500
15	Total Tetra-Furans	25.36	2.358e4	2.956e4	1.512e3	1.901e3	0.80	NO	3.413e3	0.54630	0.54630	0.0500
16	2,3,7,8-TCDF	25.48	1.648e5	2.211e5	1.050e4	1.404e4	0.75	NO	2.454e4	3.9275	3.9275	0.0500
17	Total Tetra-Furans	25.79	1.282e4	1.921e4	1.069e3	1.369e3	0.78	NO	2.438e3	0.39014	0.39014	0.0500
18	Total Tetra-Furans	27.01	4.422e3	5.771e3	3.460e2	3.922e2	0.88	NO	7.383e2	0.11816	0.11816	0.0500
19	Total Tetra-Furans	27.37	9.701e3	1.703e4	6.291e2	9.552e2	0.66	NO	1.584e3	0.25357	0.25357	0.0500

**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	26.99	1.654e5	1.107e5	1.015e4	6.401e3	1.59	NO	1.655e4	2.7033	2.7033	0.0217

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Name: 201109R1\_15, Date: 09-Nov-2020, Time: 18:34:36, ID: 2002171-05 USMPDI-050SG-201009 29.13, Description: USMPDI-050SG-201009

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Furans	28.46	1.466e4	1.016e4	1.102e3	6.621e2	1.66	NO	1.764e3	0.28821	0.28821	0.0847
2	Total Penta-Furans	28.62	1.440e5	9.350e4	9.772e3	5.918e3	1.65	NO	1.569e4	2.5628	2.5628	0.0847
3	Total Penta-Furans	29.25	3.115e4	2.098e4	2.034e3	1.330e3	1.53	NO	3.364e3	0.54952	0.54952	0.0847
4	Total Penta-Furans	29.41	4.091e4	3.207e4	2.330e3	1.532e3	1.52	NO	3.862e3	0.63086	0.63086	0.0847
5	1,2,3,7,8-PeCDF	29.61	2.160e5	1.305e5	1.163e4	7.247e3	1.60	NO	1.887e4	3.0920	3.0920	0.0859
6	Total Penta-Furans	29.87	9.991e4	6.340e4	5.205e3	3.483e3	1.49	NO	8.688e3	1.4192	1.4192	0.0847
7	Total Penta-Furans	30.49	9.401e3	6.471e3	5.488e2	3.875e2	1.42	NO	9.364e2	0.15295	0.15295	0.0847
8	2,3,4,7,8-PeCDF	30.67	1.607e5	9.854e4	9.882e3	5.840e3	1.69	NO	1.572e4	2.3069	2.3069	0.0753
9	Total Penta-Furans	31.58	9.210e3	5.546e3	4.918e2	3.340e2	1.47	NO	8.259e2	0.13490	0.13490	0.0847

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.02	1.060e5	8.655e4	5.076e3	4.126e3	1.23	NO	9.202e3	2.1434	2.1434	0.143
2	Total Hexa-Furans	32.19	2.489e5	2.107e5	1.301e4	1.094e4	1.19	NO	2.395e4	5.5786	5.5786	0.143
3	Total Hexa-Furans	32.82	3.520e5	3.017e5	1.933e4	1.610e4	1.20	NO	3.543e4	8.2526	8.2526	0.143
4	Total Hexa-Furans	33.16	9.116e3	6.100e3	4.201e2	3.770e2	1.11	NO	7.971e2	0.18566	0.18566	0.143
5	1,2,3,4,7,8-HxCDF	33.29	2.335e5	1.866e5	1.346e4	1.120e4	1.20	NO	2.466e4	5.6960	5.6960	0.129
6	1,2,3,6,7,8-HxCDF	33.42	6.748e4	5.475e4	3.957e3	3.426e3	1.15	NO	7.383e3	1.5916	1.5916	0.128
7	2,3,4,6,7,8-HxCDF	34.10	2.986e4	2.392e4	1.868e3	1.671e3	1.12	NO	3.539e3	0.82240	0.82240	0.137
8	1,2,3,7,8,9-HxCDF	35.11	2.196e4	1.805e4	8.148e2	7.622e2	1.07	NO	1.577e3	0.43114	0.43114	0.194
9	Total Hexa-Furans	35.12	2.324e4	1.951e4	1.063e3	9.098e2	1.17	NO	1.972e3	0.45945	0.45945	0.143

**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	36.68	2.298e5	2.332e5	1.782e4	1.807e4	0.99	NO	3.589e4	11.221	11.221	0.186
2	Total Hepta-Furans	37.39	3.884e5	3.768e5	3.079e4	2.997e4	1.03	NO	6.075e4	21.400	21.400	0.195
3	1,2,3,4,7,8,9-HpCDF	38.72	2.982e4	2.554e4	1.891e3	1.696e3	1.11	NO	3.587e3	1.2852	1.2852	0.183

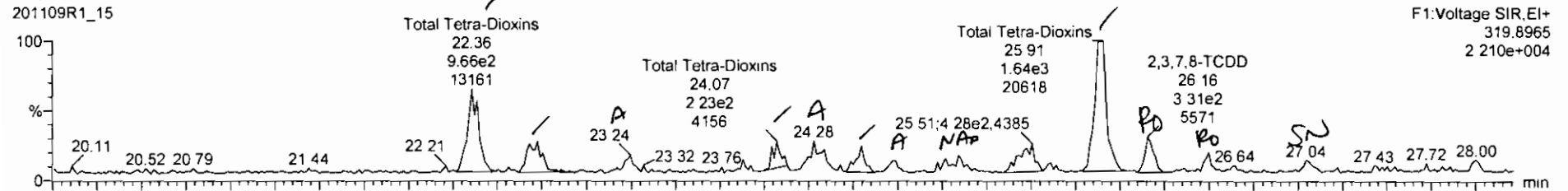


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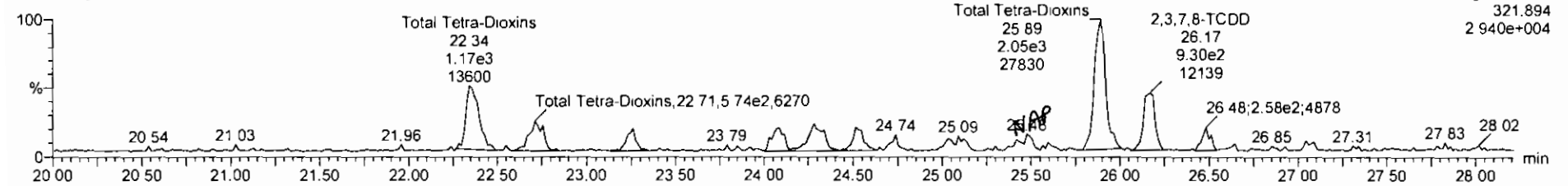
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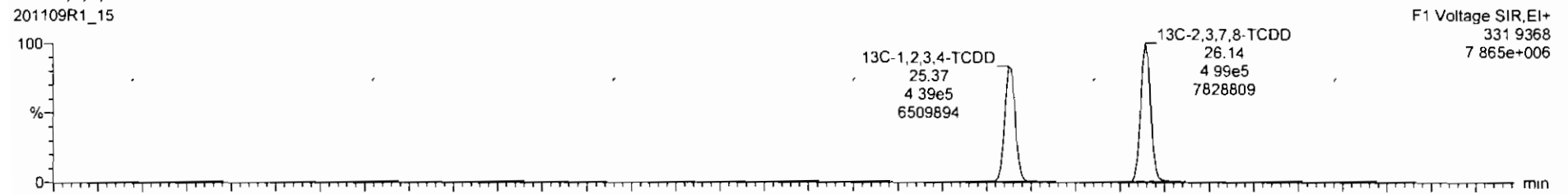
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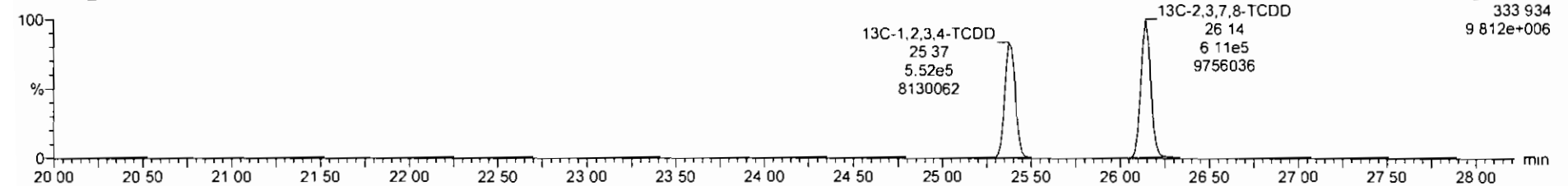
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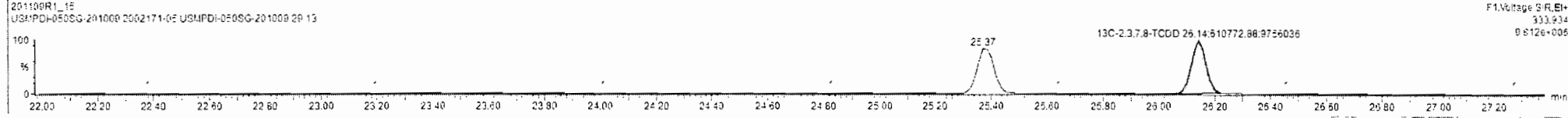
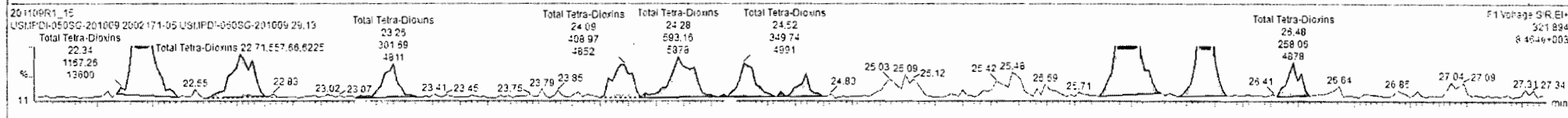
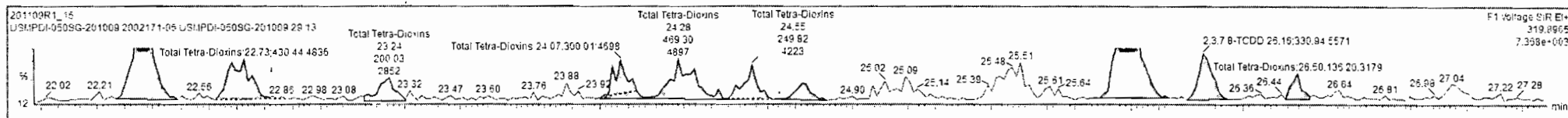


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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.067			1.88		0.0451	2.08
40 Total Penta-Dioxins				0.6855	10.067			4.25		0.0741	5.41
41 Total Hexa-Dioxins				0.9145	10.067			31.2		0.138	21.4

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.36	9.662e2	1.167e2	0.83	NO	0.40208	0.40208
2 Total Tetra-Dioxins	22.73	4.304e2	5.577e2	0.77	NO	0.18621	0.18621
3 Total Tetra-Dioxins	23.24	2.000e2	3.017e2	0.66	NO	0.094554	0.094554
4 Total Tetra-Dioxins	24.07	3.000e2	4.050e2	0.73	NO	0.13361	0.13361
5 Total Tetra-Dioxins	24.28	4.693e2	5.932e2	0.79	NO	0.20023	0.20023
6 Total Tetra-Dioxins	24.55	2.493e2	3.497e2	0.71	NO	0.11259	0.11259
7 Total Tetra-Dioxins	24.72	1.237e2	1.657e2	0.74	NO	0.054640	0.054640
8 Total Tetra-Dioxins	25.91	1.838e2	2.045e2	0.80	NO	0.69422	0.69422
9 2,3,7,8-TCDD	26.16	3.303e2	9.296e2	0.36	YES	0.14037	0.02000
10 Total Tetra-Dioxins	26.50	1.362e2	2.581e2	0.53	YES	0.059008	0.00000



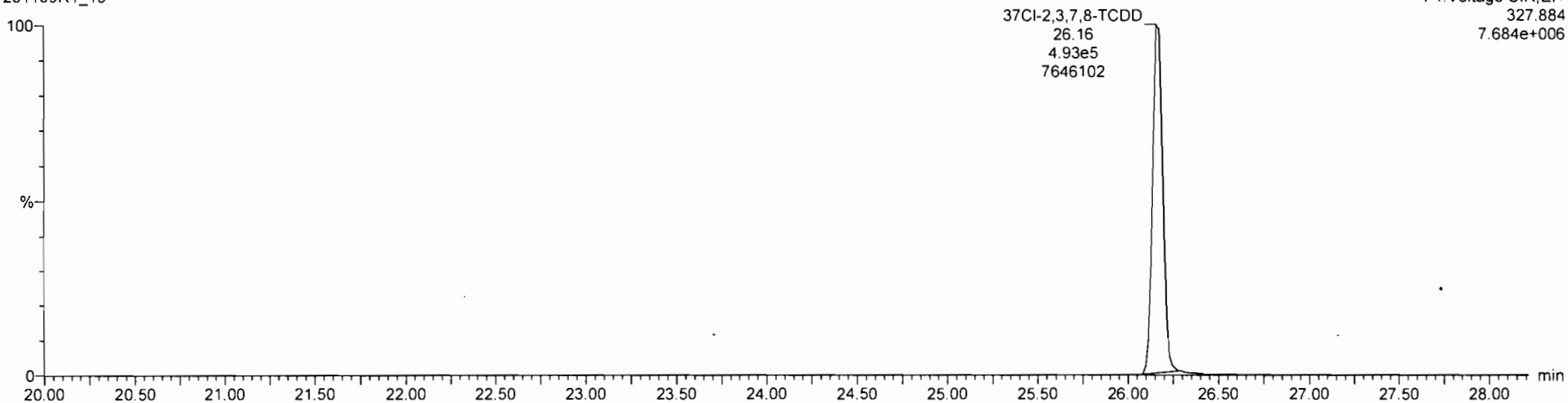
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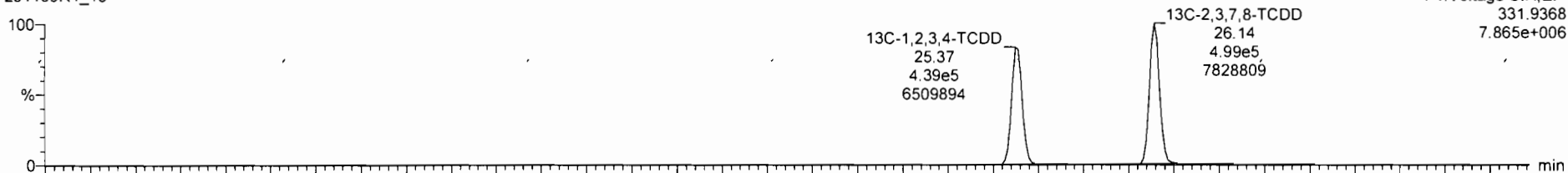
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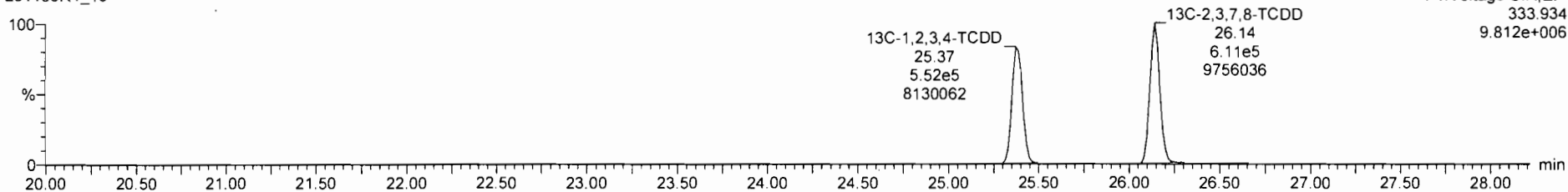


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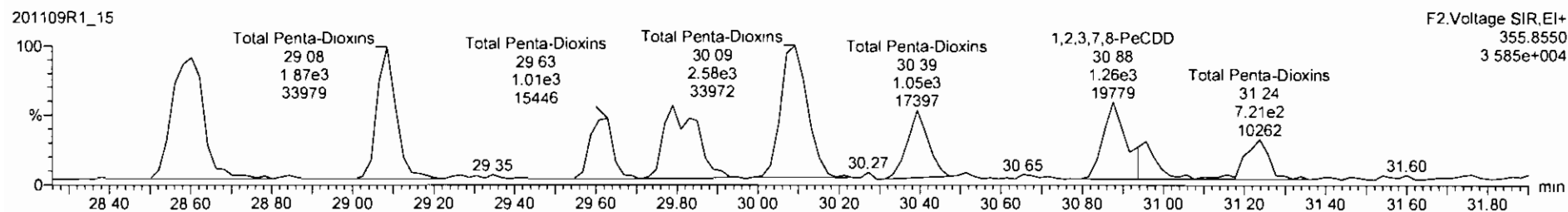
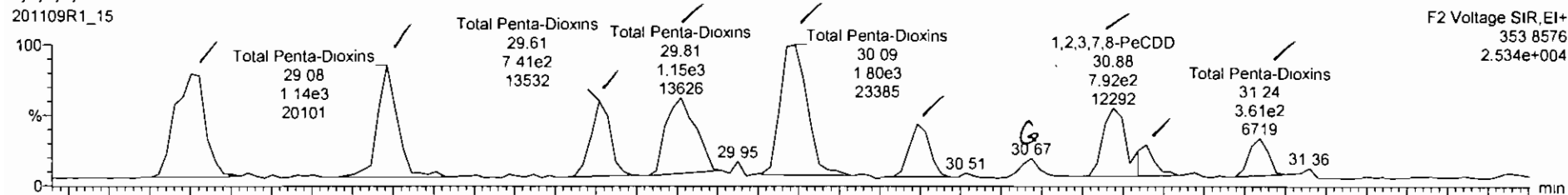
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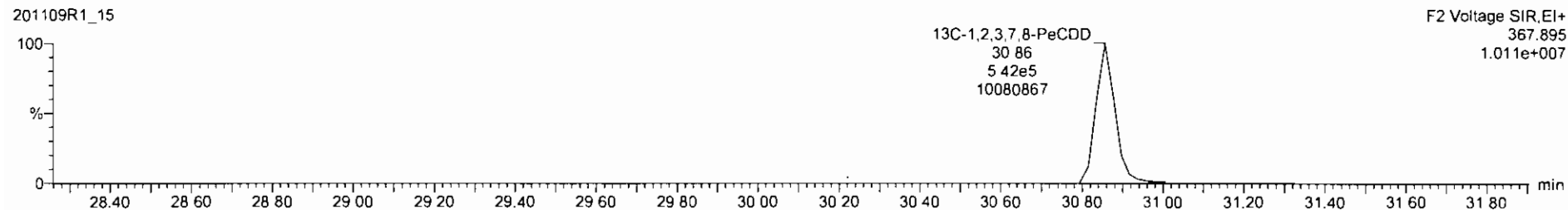
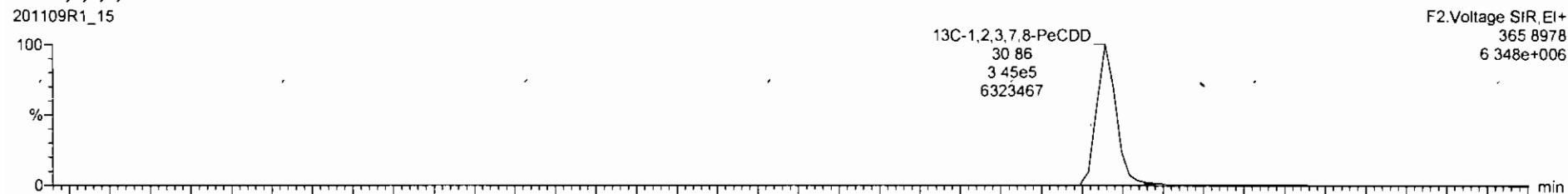
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**1,2,3,7,8-PeCDD**

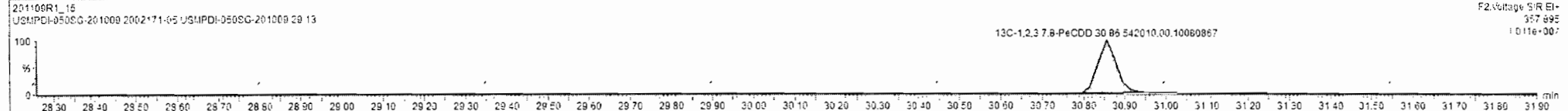
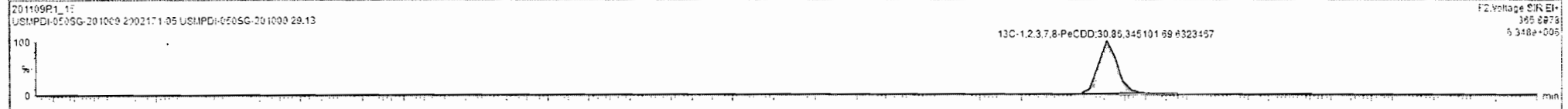
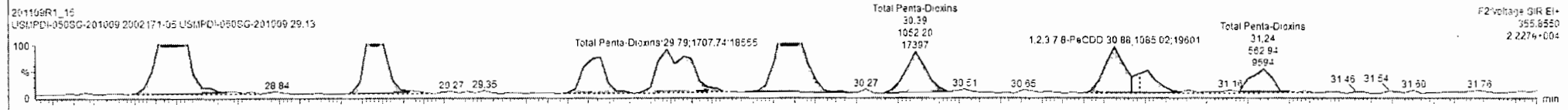
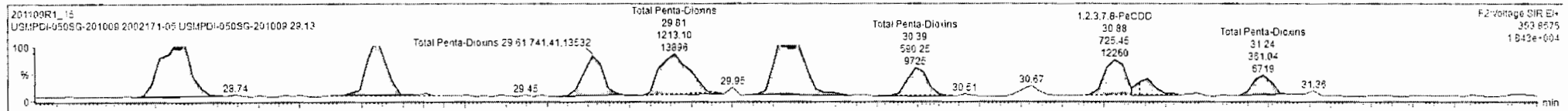


**13C-1,2,3,7,8-PeCDD**



Name	Resp	RA	n/y	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EVPC
35 Total Tetra-Dioxins				0.9501	10.067			1.80		0.0451	2.00
40 Total Penta-Dioxins				0.8855	10.067			4.70	0.0741	5.44	
41 Total Hexa-Dioxins				0.9145	10.067			31.2		0.188	31.4

Name	RT	mt Resp	nd Resp	RA	n/y	EVPC	Conc.
1 Total Penta-Dioxins	28.80	1.594e3	2.712e3	0.59	NO	1.0691	1.6391
2 Total Penta-Dioxins	29.08	1.036e3	1.752e3	0.59	NO	0.70510	0.70510
3 Total Penta-Dioxins	29.61	7.414e2	1.058e3	0.70	NO	0.45507	0.45507
4 Total Penta-Dioxins	29.81	1.213e3	1.706e3	0.71	NO	0.73371	0.00000
5 Total Penta-Dioxins	30.09	1.800e3	2.575e3	0.70	NO	1.1064	1.1064
6 Total Penta-Dioxins	30.39	5.503e2	1.052e3	0.56	NO	0.41539	0.41539
7 1,2,3,7,8-PeCDD	30.88	7.255e2	1.085e3	0.67	NO	0.45788	0.45788
8 Total Penta-Dioxins	30.96	3.390e2	5.947e2	0.57	NO	0.23613	0.23613
9 Total Penta-Dioxins	31.24	3.610e2	5.629e2	0.64	NO	0.23368	0.23368



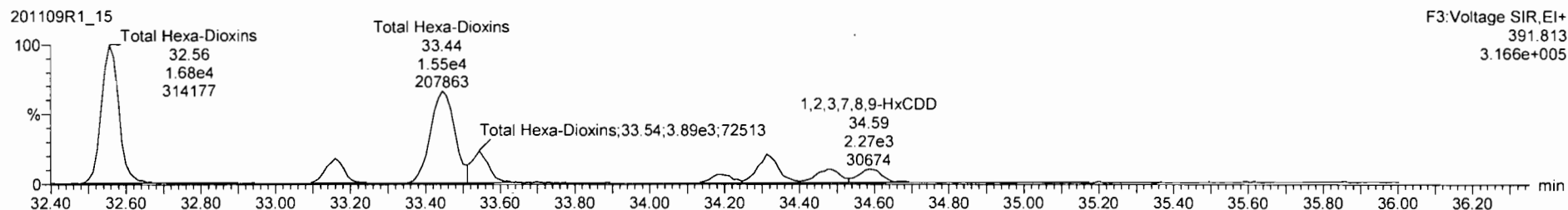
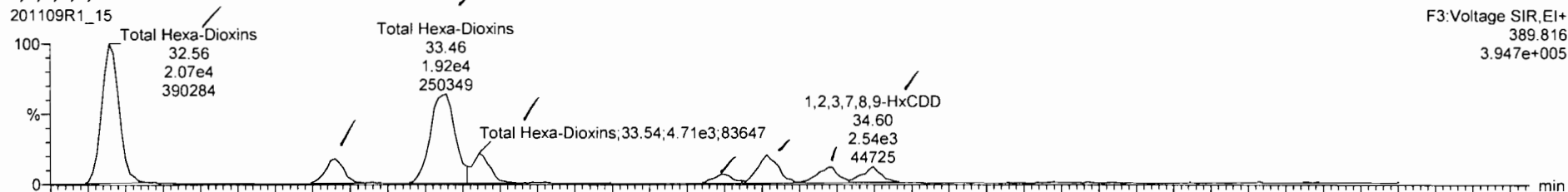
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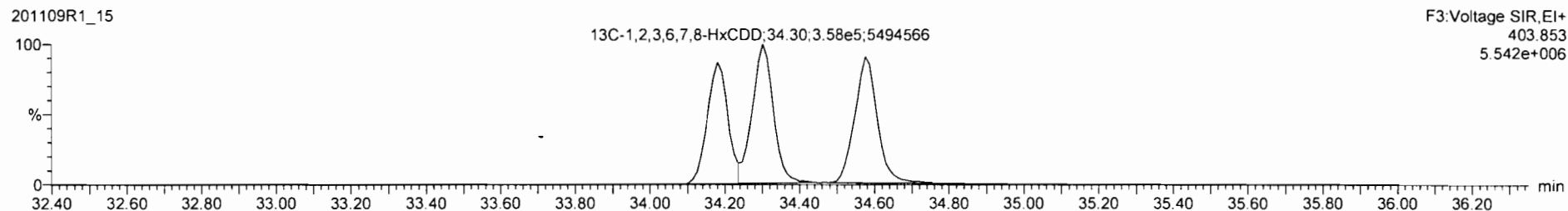
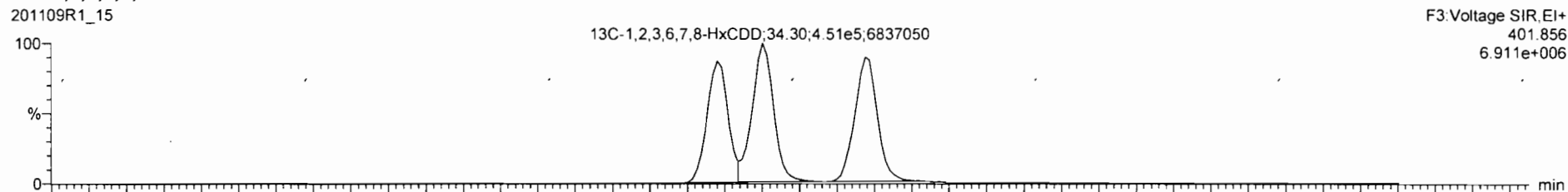
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**1,2,3,4,7,8-HxCDD**



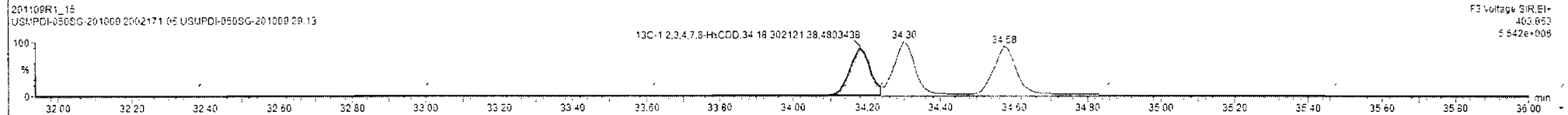
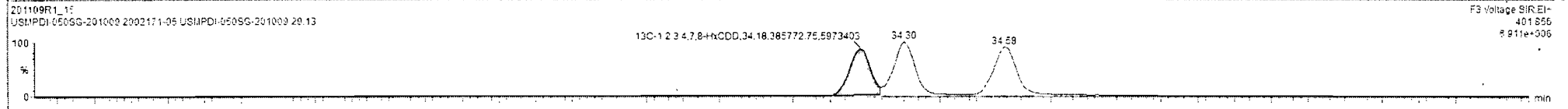
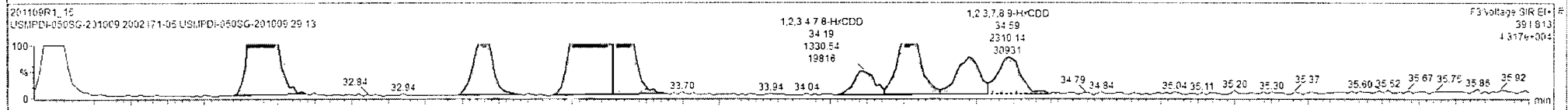
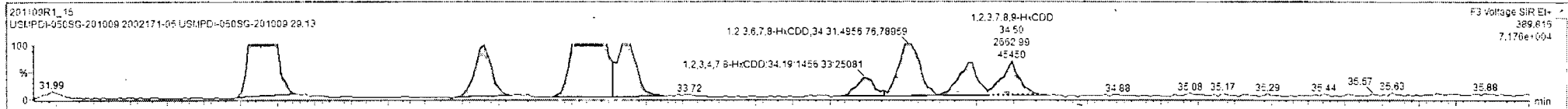
**13C-1,2,3,4,7,8-HxCDD**



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Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.067			1.88		0.0451	2.03
40 Total Penta-Dioxins				0.6855	10.067			4.70		0.0741	5.44
41 Total Hexa-Dioxins				0.6145	10.067			31.2		0.188	31.2

Name	RTs	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.56	2.067e4	1.682e4	1.23	NO	10.747	10.747
2 Total Hexa-Dioxins	33.16	3.672e3	3.189e3	1.21	NO	2.0241	2.0241
3 Total Hexa-Dioxins	33.46	1.918e4	1.547e4	1.24	NO	9.9318	9.9318
4 Total Hexa-Dioxins	33.54	4.707e3	3.660e3	1.21	NO	2.4643	2.4643
5 1,2,3,4,7,8-HxCDD	34.19	1.456e3	1.331e3	1.09	NO	0.79059	0.79059
6 1,2,3,6,7,8-HxCDD	34.31	4.957e3	4.176e3	1.19	NO	2.4531	2.4531
7 Total Hexa-Dioxins	34.49	2.752e3	2.280e3	1.21	NO	1.4423	1.4423
8 1,2,3,7,8,9-HxCDD	34.60	2.662e3	2.310e3	1.19	NO	1.3611	1.3611



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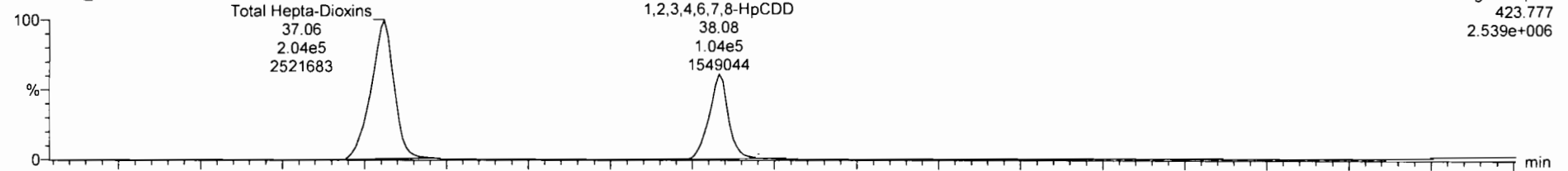
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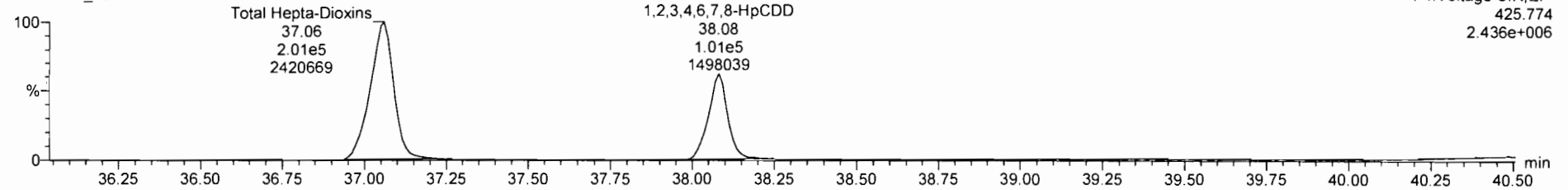
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**1,2,3,4,6,7,8-HpCDD**

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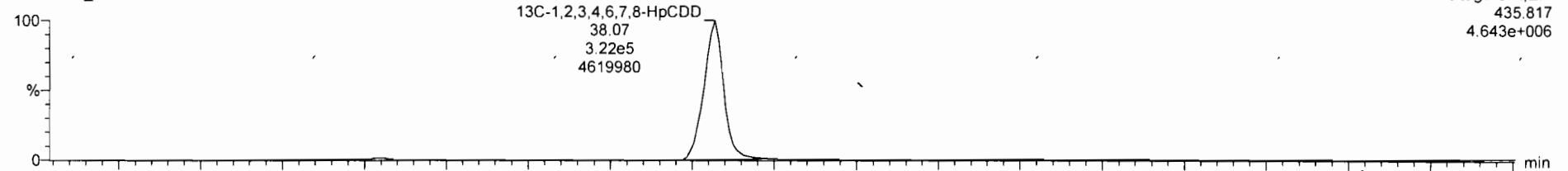


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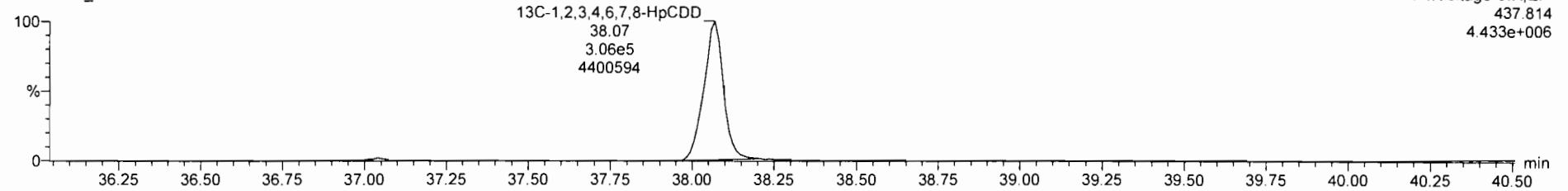


**13C-1,2,3,4,6,7,8-HpCDD**

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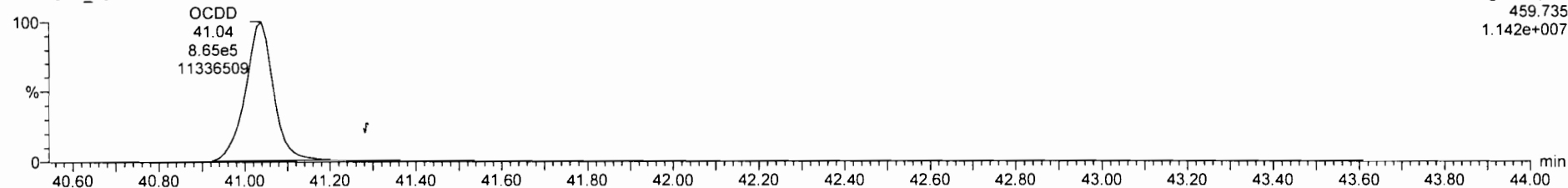
Name: 201109R1\_15, Date: 09-Nov-2020, Time: 18:34:36, ID: 2002171-05 USMPDI-050SG-201009 29.13, Description: USMPDI-050SG-201009

OCDD

201109R1\_15

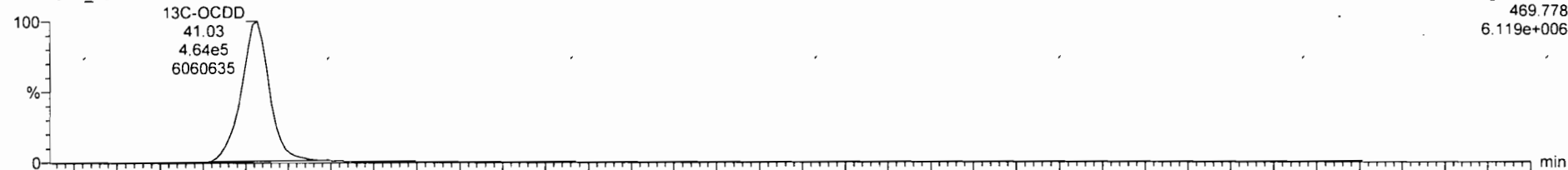


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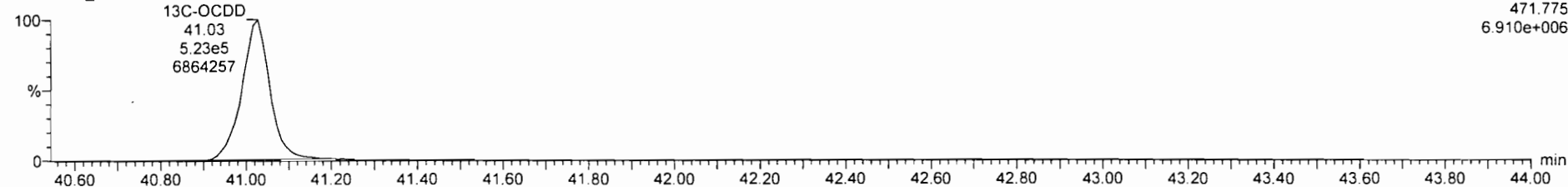


13C-OCDD

201109R1\_15



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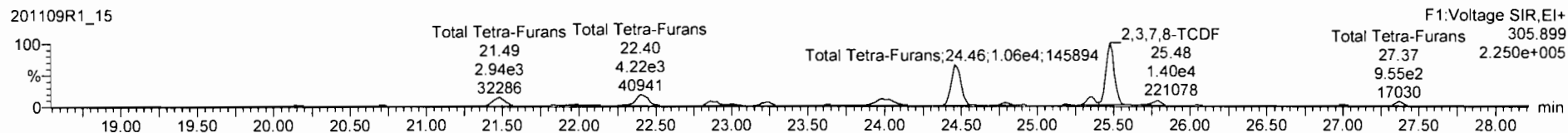
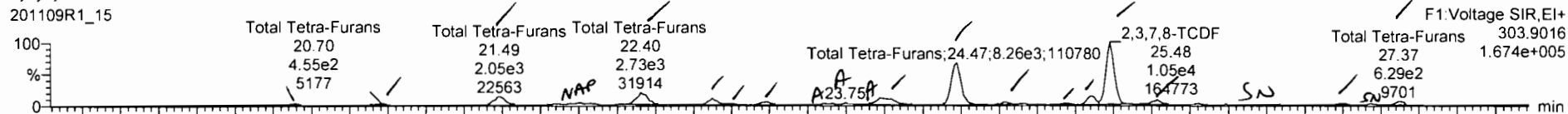
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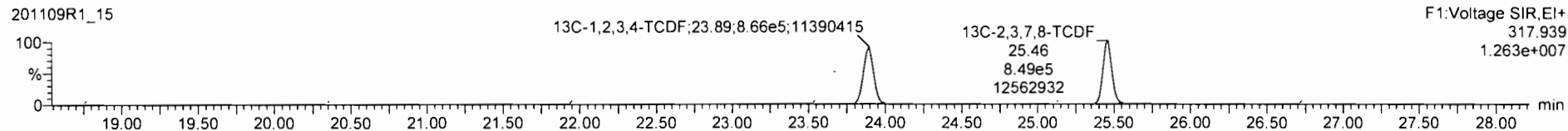
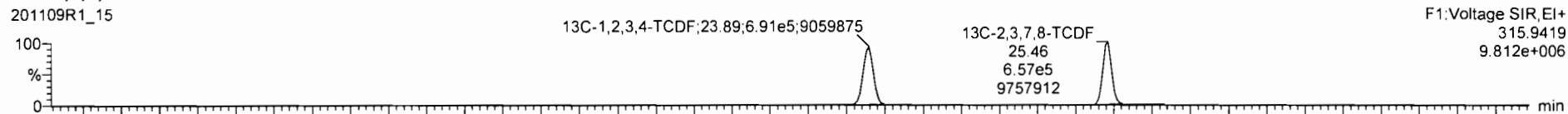
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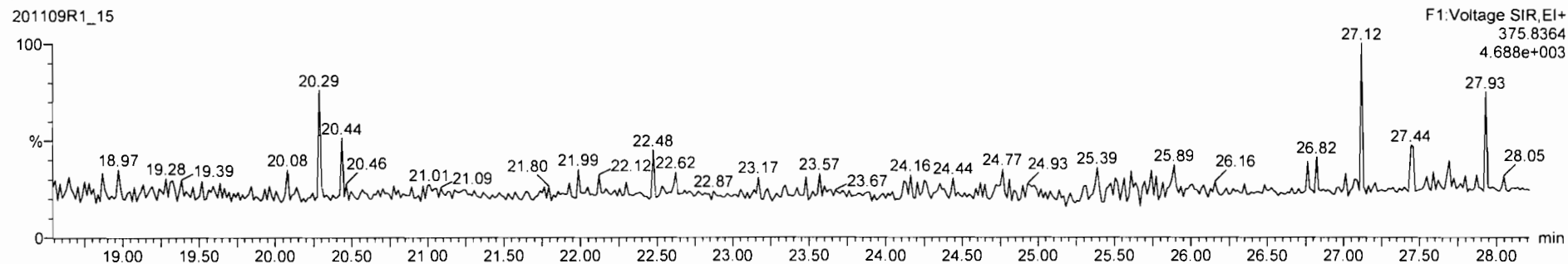
**2,3,7,8-TCDF**



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

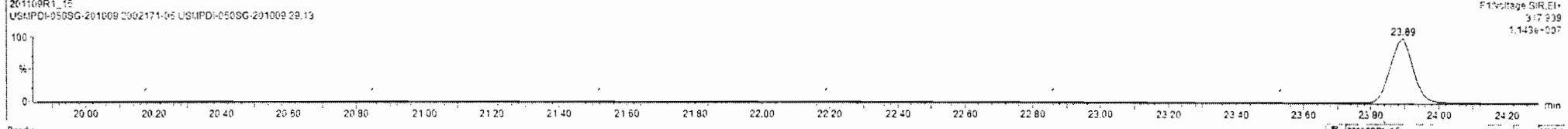
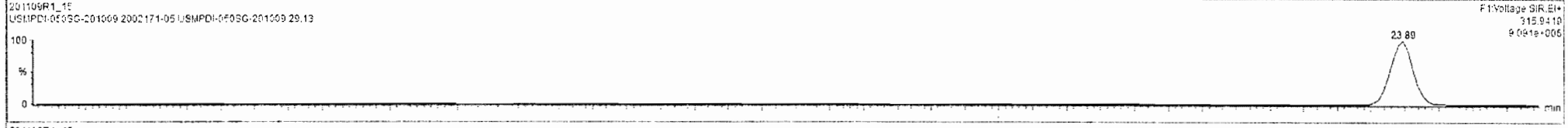
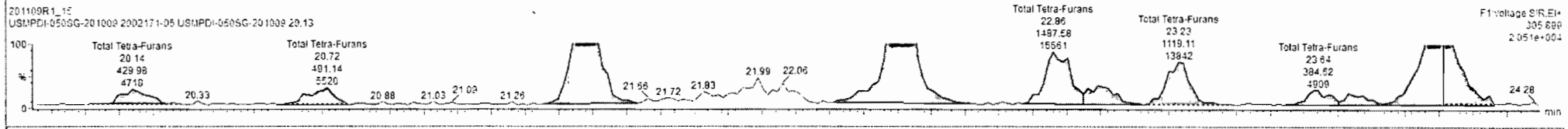
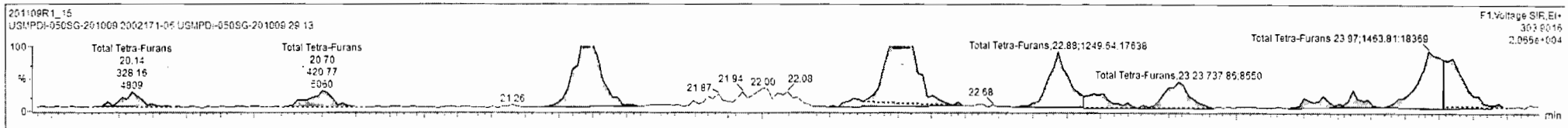


**DPE1**



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				6.8243	10.067			12.6		0.0500	12.8
44 1st Func Penta-Furans				0.9626	10.067			2.70		0.0217	2.70
45 Total Penta-Furans				0.9626	10.067			10.9		0.0647	11.1

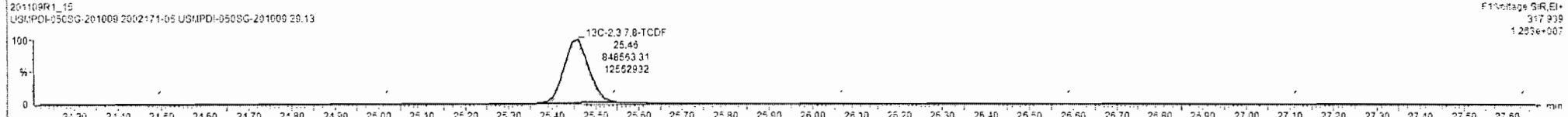
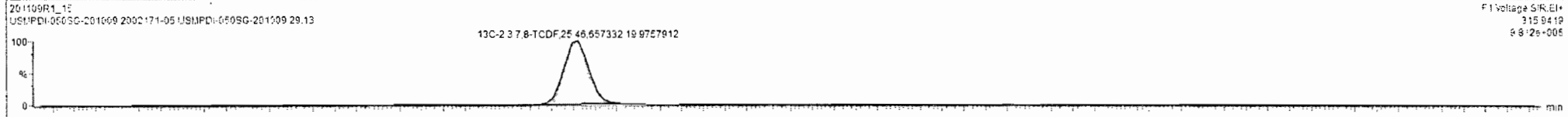
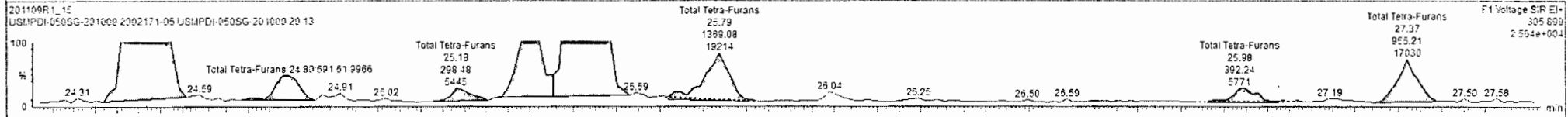
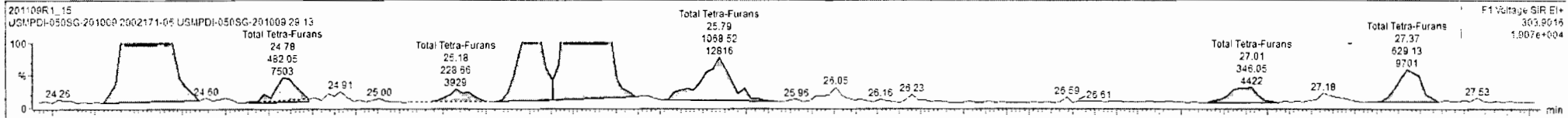
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.14	3.282e2	4.300e2	0.76	NO	0.12134	0.12134
2 Total Tetra-Furans	20.70	4.208e2	4.911e2	0.86	NO	0.14595	0.14595
3 Total Tetra-Furans	21.49	2.054e2	2.940e2	0.70	NO	0.79929	0.79529
4 Total Tetra-Furans	22.40	3.147e2	4.216e2	0.75	NO	1.1786	1.1785
5 Total Tetra-Furans	22.86	1.250e2	1.489e2	0.84	NO	0.43809	0.43809
6 Total Tetra-Furans	23.01	4.212e2	5.706e2	0.74	NO	0.15877	0.15877
7 Total Tetra-Furans	23.23	7.379e2	1.119e3	0.66	NO	0.29721	0.29721
8 Total Tetra-Furans	23.86	2.791e2	3.846e2	0.73	NO	0.10623	0.10623
9 Total Tetra-Furans	23.75	2.421e2	2.991e2	0.81	NO	0.086608	0.086603
10 Total Tetra-Furans	23.97	1.484e2	2.029e2	0.72	NO	0.55903	0.55903
11 Total Tetra-Furans	24.04	1.156e2	1.489e2	0.79	NO	0.42012	0.42012



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Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.067			12.8		0.0500	12.8
44 1st Func. Penta-Furans				0.9628	10.067			2.70		0.0217	2.70
45 Total Penta-Furans				0.9628	10.067			10.9		0.0847	11.1

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
9 Total Tetra-Furans	23.75	2.421e2	2.991e2	0.91	NO	0.086608	0.066608
10 Total Tetra-Furans	23.97	1.464e3	2.029e3	0.72	NO	0.55903	0.55603
11 Total Tetra-Furans	24.04	1.156e3	1.469e3	0.79	NO	0.42012	0.42012
12 Total Tetra-Furans	24.47	8.259e3	1.064e4	0.78	NO	3.0242	3.0242
13 Total Tetra-Furans	24.76	4.825e2	5.916e2	0.70	NO	0.18784	0.18784
14 Total Tetra-Furans	25.18	2.267e2	2.925e2	0.77	NO	0.084369	0.054369
15 Total Tetra-Furans	25.36	1.512e3	1.901e3	0.80	NO	0.54630	0.54630
16 2,3,7,8-TCDF	25.46	1.052e4	1.404e4	0.75	NO	3.9275	3.9275
17 Total Tetra-Furans	25.79	1.069e3	1.369e3	0.78	NO	0.39014	0.39014
18 Total Tetra-Furans	27.01	3.460e2	3.922e2	0.88	NO	0.11816	0.11816
19 Total Tetra-Furans	27.37	6.291e2	9.552e2	0.66	NO	0.25357	0.25357



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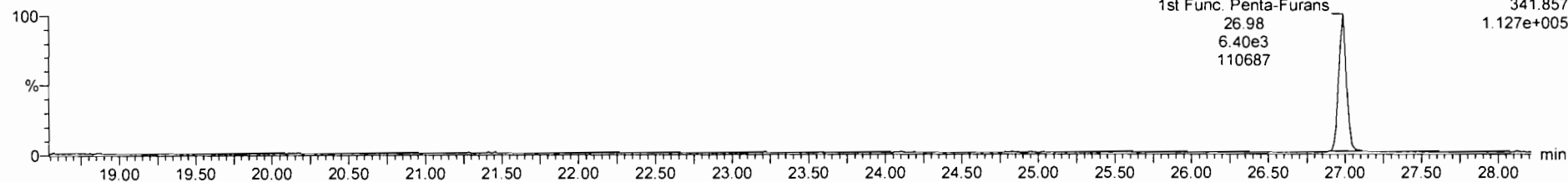
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1st Func. Penta-Furans

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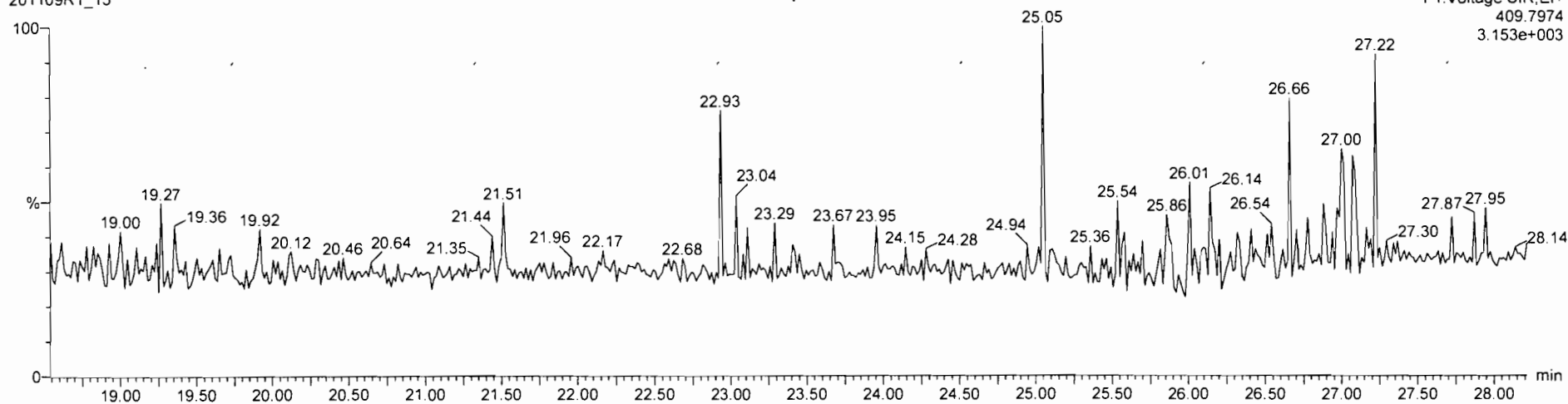


201109R1\_15



DPE6

201109R1\_15

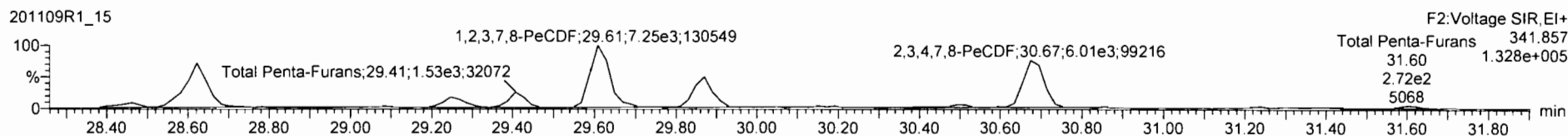
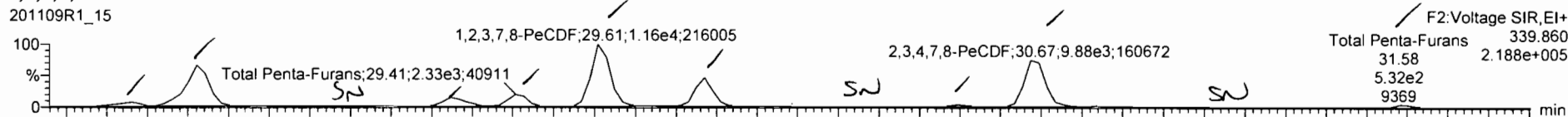


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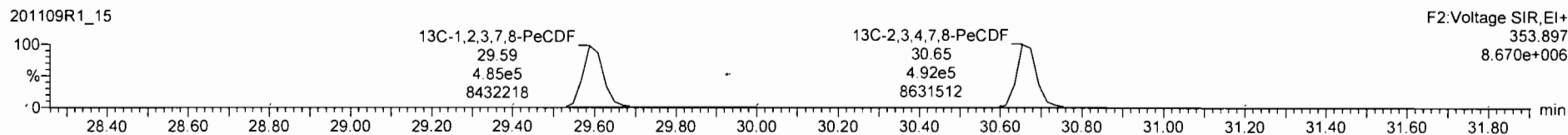
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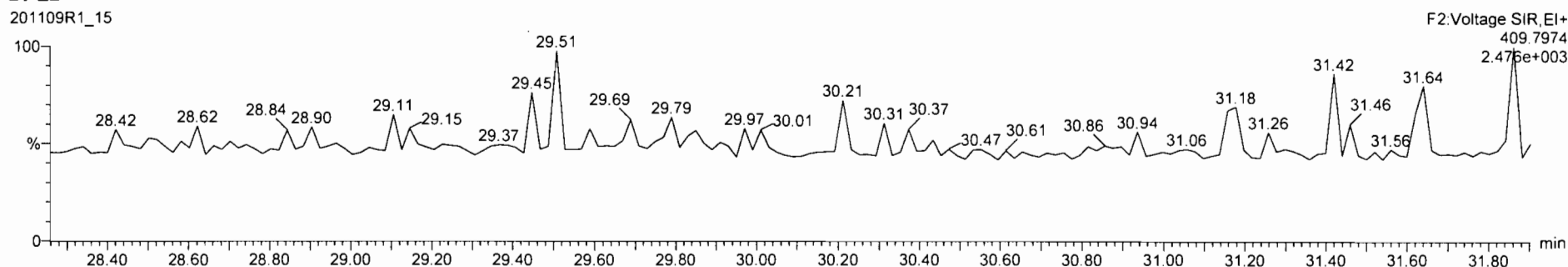
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### 13C-1,2,3,7,8-PeCDF



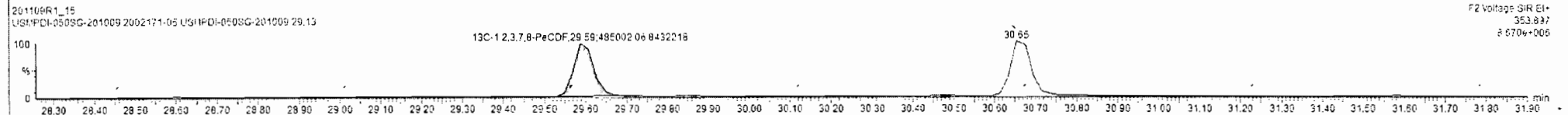
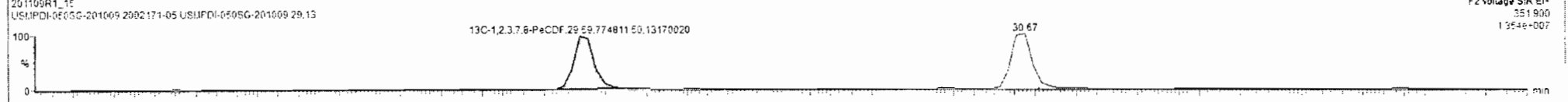
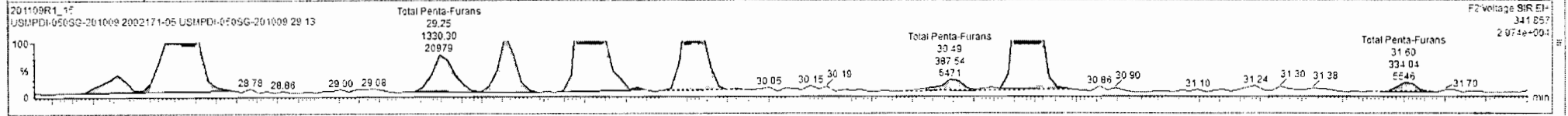
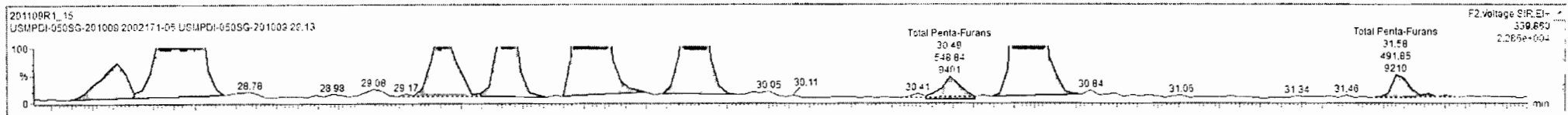
### DPE2



201109R1-15 - 2002171-05 USMPDI-050SG-201009 29.13 - USMPDI-050SG-201009

Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.067			12.8	0.0500	12.8	
44 1st Func. Penta-Furans				0.5625	10.067			2.70	0.0217	2.70	
45 Total Penta-Furans				0.9626	10.067			11.1	0.0347	11.1	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	26.46	1.102e3	6.621e2	1.66	NO	0.28821	0.28821
2 Total Penta-Furans	26.62	9.772e3	5.918e3	1.65	NO	2.5626	2.5626
3 Total Penta-Furans	29.25	2.024e3	1.330e3	1.53	NO	0.54952	0.54952
4 Total Penta-Furans	29.41	2.330e3	1.532e3	1.52	NO	0.63086	0.63086
5 1,2,3,7,8-PeCDF	29.51	1.163e4	7.247e3	1.60	NO	3.0920	3.0920
6 Total Penta-Furans	29.87	5.205e3	3.483e3	1.49	NO	1.4192	1.4192
7 Total Penta-Furans	30.49	5.485e3	3.875e3	1.42	NO	0.15255	0.15255
8 2,3,4,7,8-PeCDF	30.67	9.882e3	5.841e3	1.69	NO	2.2069	2.2069
9 Total Penta-Furans	31.58	4.918e2	3.340e2	1.47	NO	0.13450	0.13450

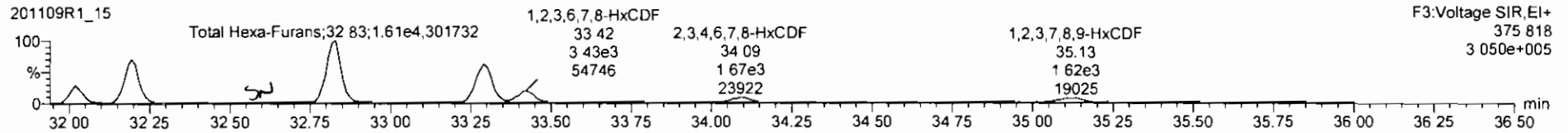
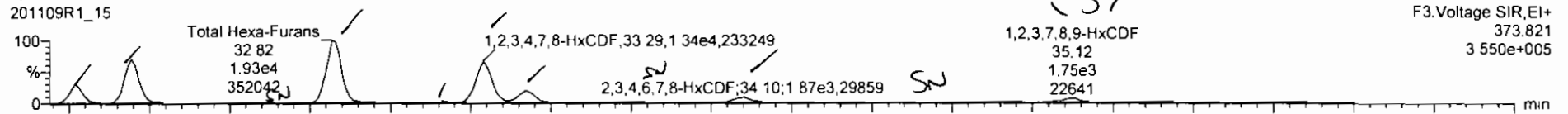


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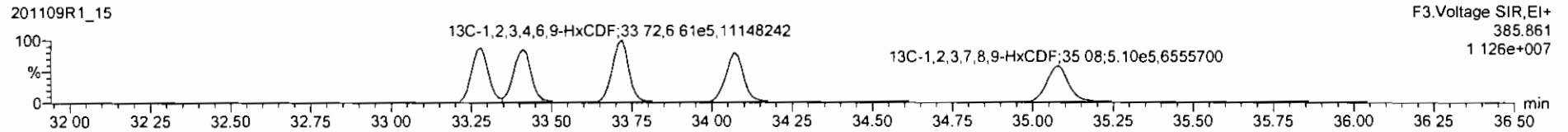
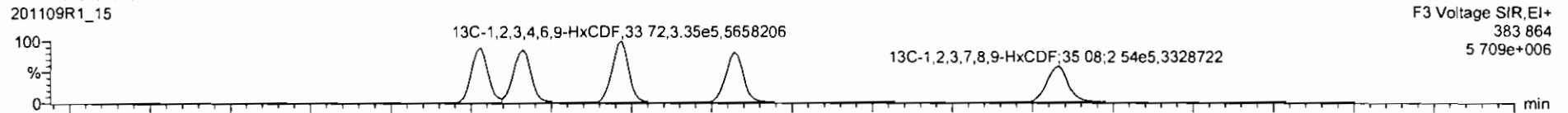
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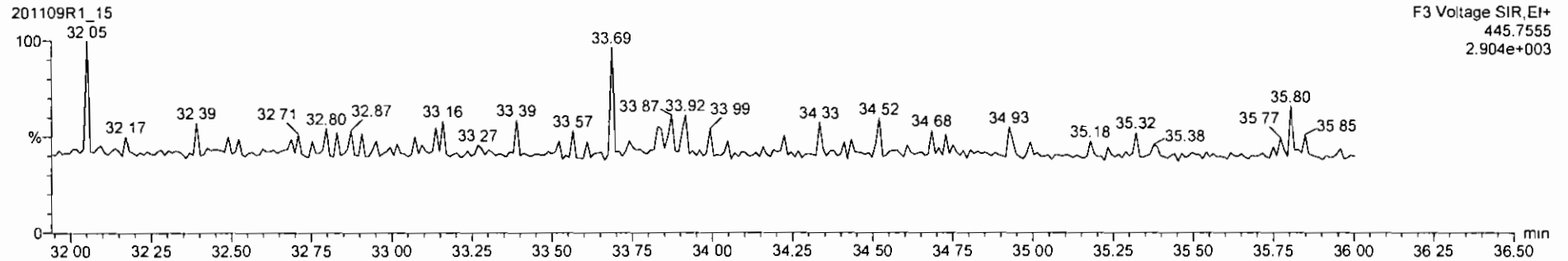
1,2,3,4,7,8-HxCDF



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



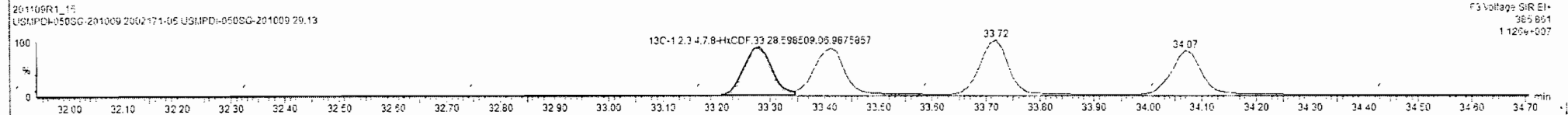
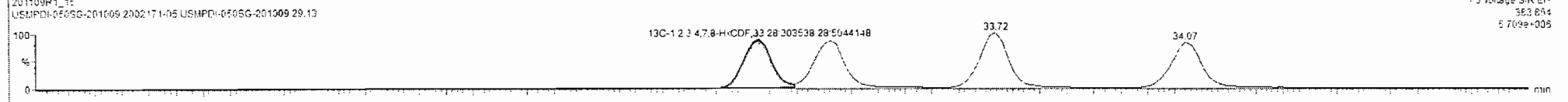
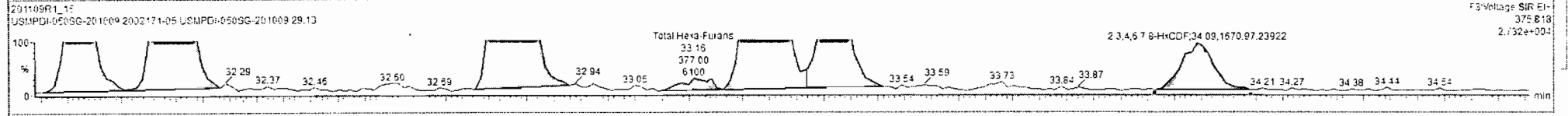
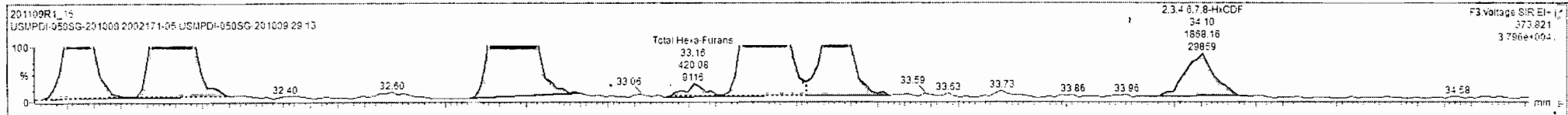
DPE3

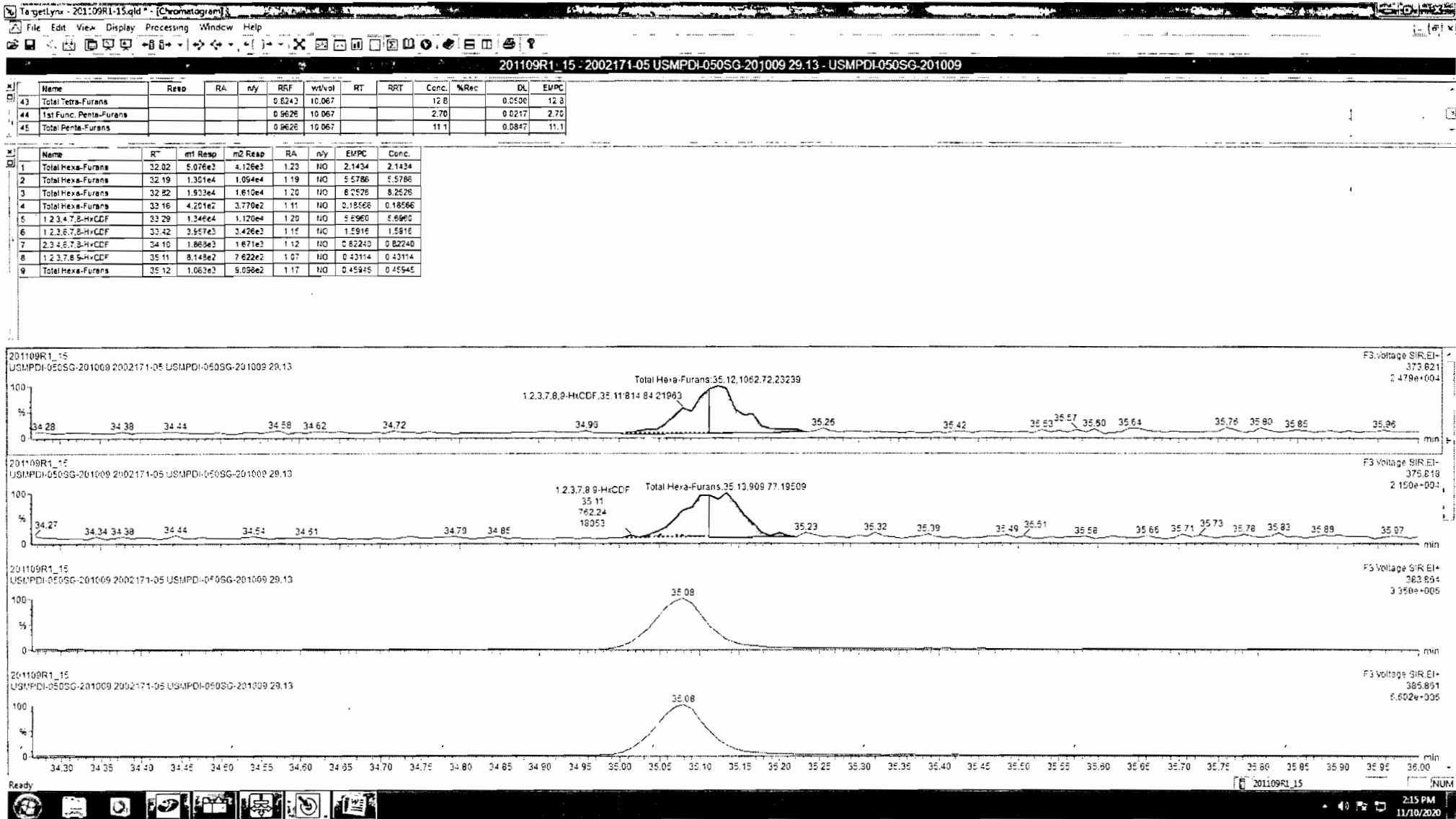




Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.067			12.8	0.0500	12.8	
44 1st Func. Penta-Furans				0.962E	10.067			2.70	0.0217	2.70	
45 Total Penta-Furans				0.962E	10.067			11.1	0.0847	11.1	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.02	5.076e3	4.126e3	1.23	NO	2.1434	2.1434
2 Total Hexa-Furans	32.19	1.301e4	1.094e4	1.19	NO	5.5786	5.5786
3 Total Hexa-Furans	32.82	1.933e4	1.610e4	1.20	NO	8.2526	8.2526
4 Total Hexa-Furans	33.16	4.201e2	3.770e2	1.11	NO	0.18566	0.18566
5 1,2,3,4,7,8-HxCDF	33.29	1.346e4	1.120e4	1.20	NO	5.5960	5.5960
6 1,2,3,6,7,8-HxCDF	33.42	3.957e3	3.426e3	1.15	NO	1.5916	1.5916
7 2,3,4,6,7,8-HxCDF	34.10	1.868e3	1.671e3	1.12	NO	0.82240	0.82240
8 1,2,3,7,8,9-HxCDF	35.12	1.753e3	1.623e3	1.08	NO	0.92277	0.92277



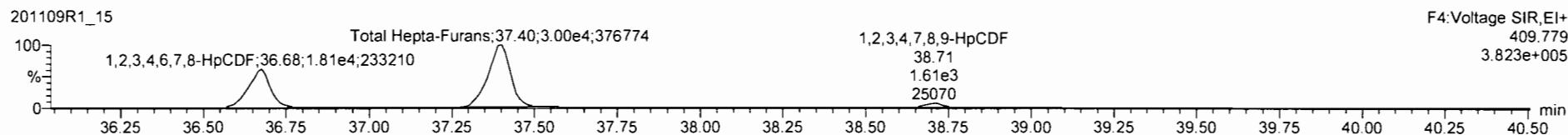
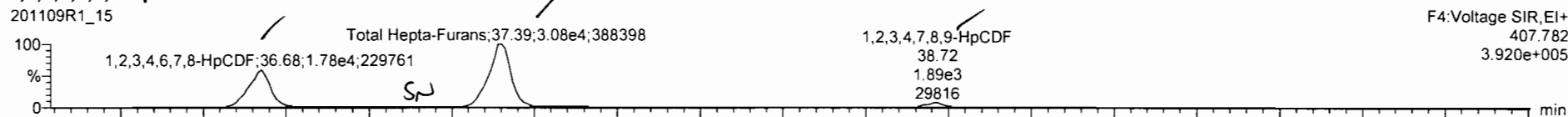


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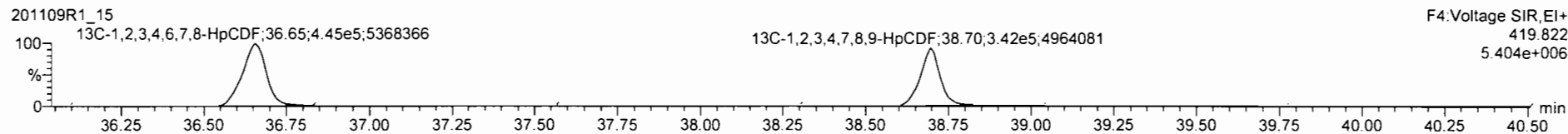
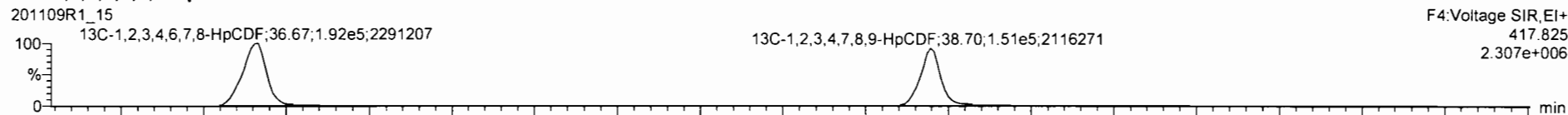
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Name: 201109R1\_15, Date: 09-Nov-2020, Time: 18:34:36, ID: 2002171-05 USMPDI-050SG-201009 29.13, Description: USMPDI-050SG-201009

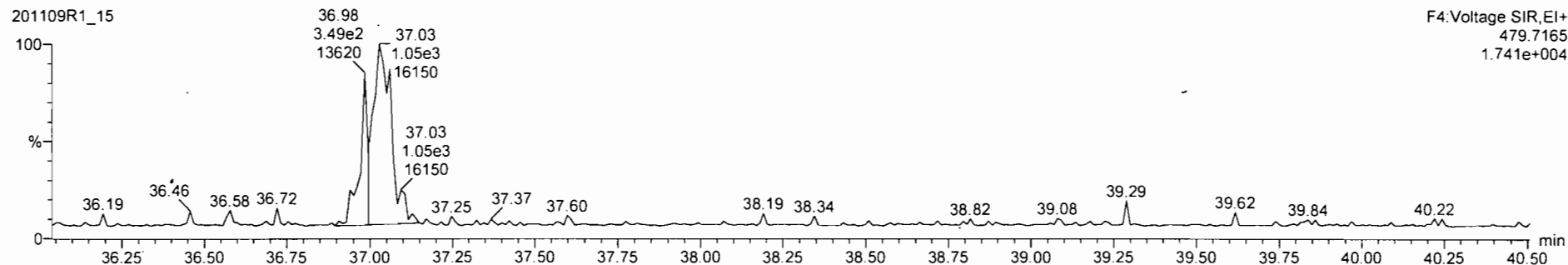
**1,2,3,4,6,7,8-HpCDF**



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



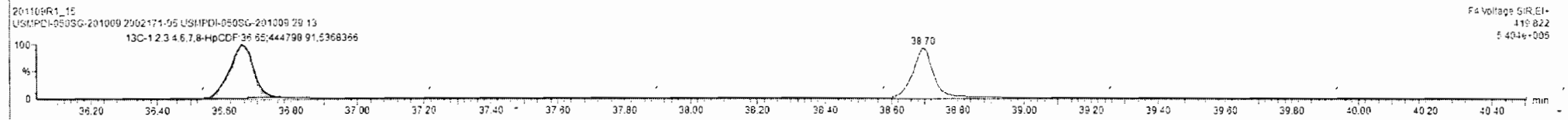
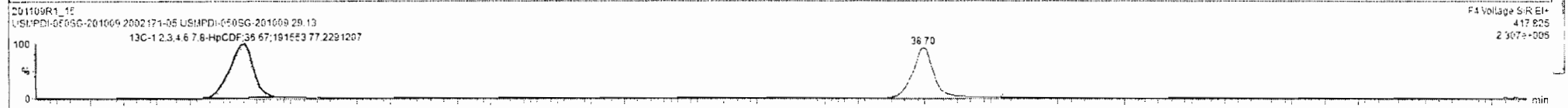
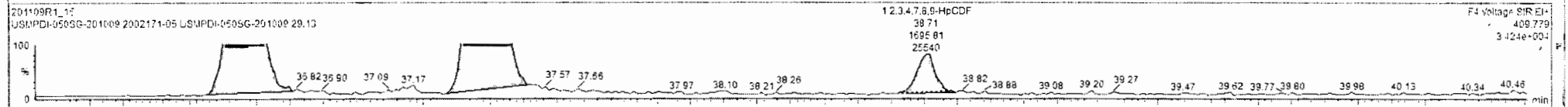
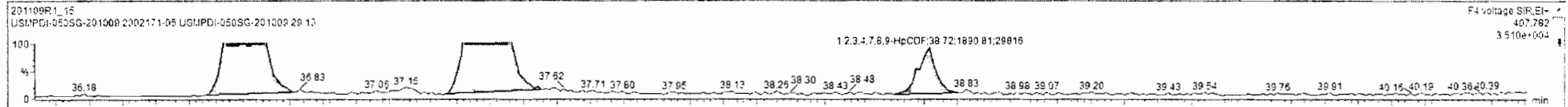
**DPE4**



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Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furena				0.8986	10.067			33.8		0.195	33.8
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.66	1.782e4	1.607e4	0.99	NO	11.221	11.221
2 Total Hepta-Furena	37.39	3.079e4	2.967e4	1.03	NO	21.400	21.400
3 1,2,3,4,7,8,9-HpCDF	38.72	1.881e3	1.696e3	1.11	NO	1.2852	1.2852



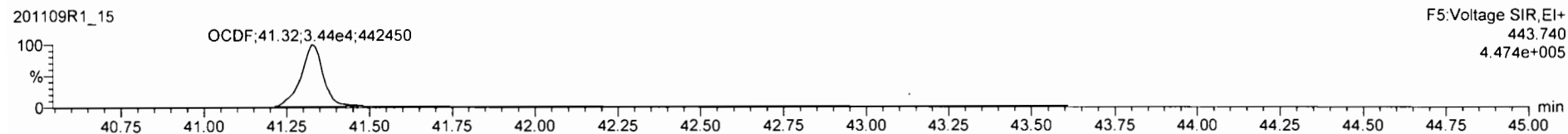
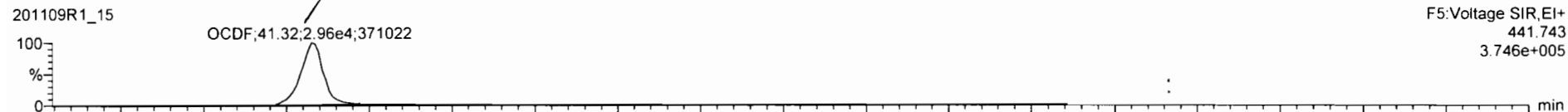
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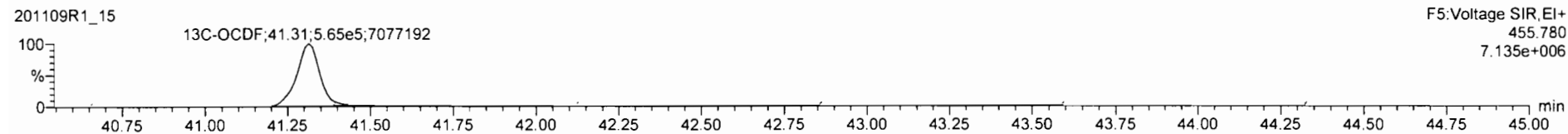
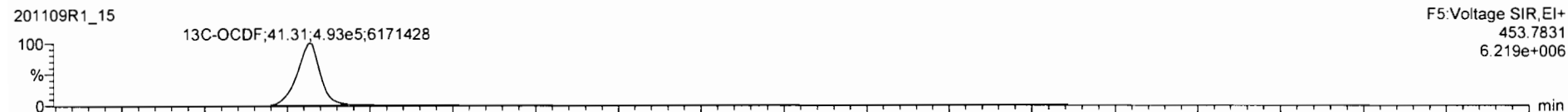
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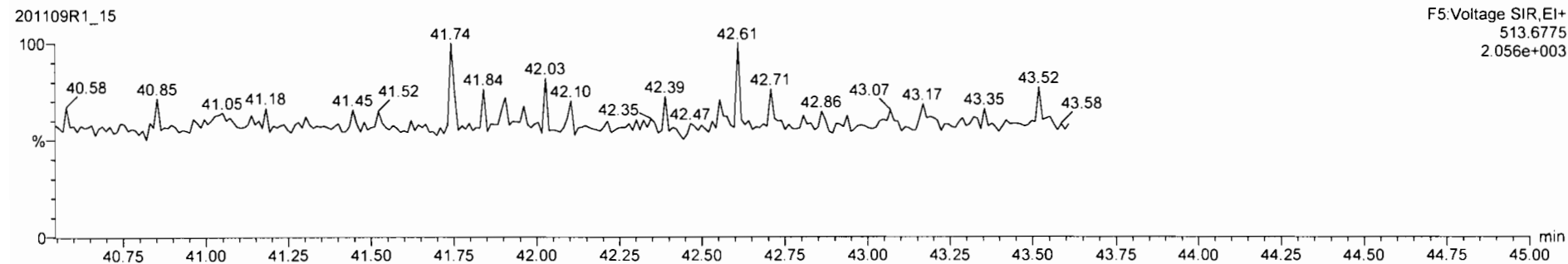
**OCDF**



**13C-OCDF**



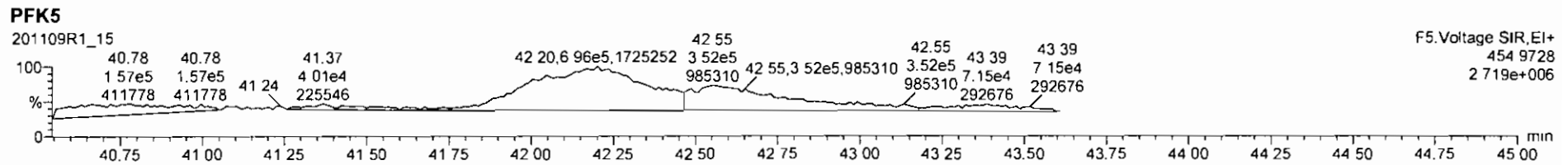
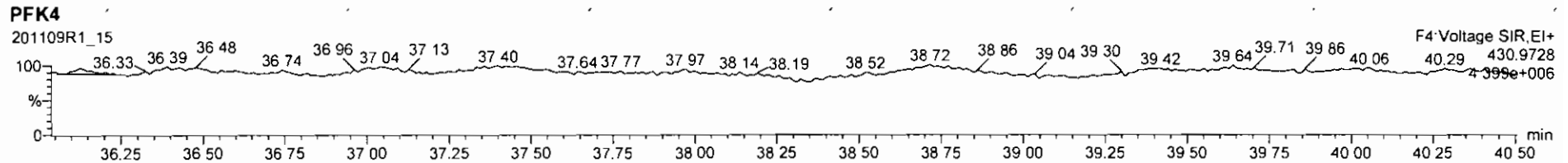
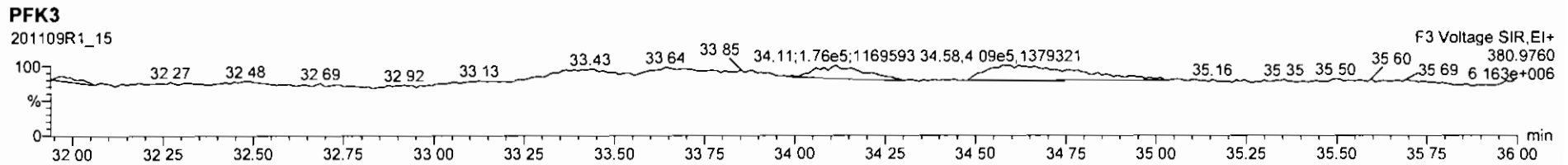
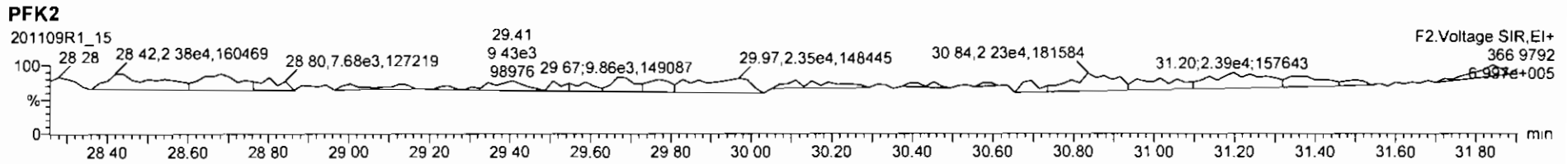
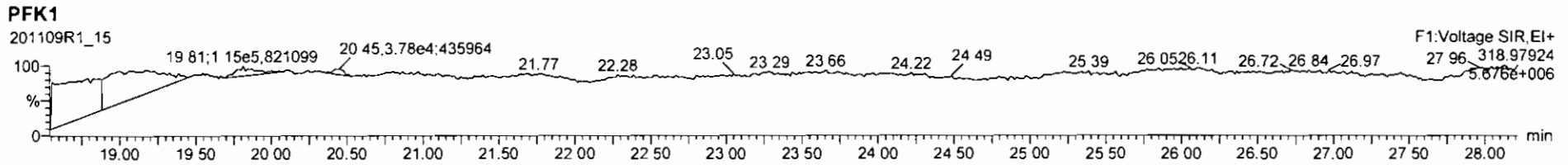
**DPE5**



Dataset: Untitled

Last Altered: Tuesday, November 10, 2020 7:12:11 AM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 7:12:18 AM Pacific Standard Time

Name: 201109R1\_15, Date: 09-Nov-2020, Time: 18:34:36, ID: 2002171-05 USMPDI-050SG-201009 29.13, Description: USMPDI-050SG-201009



Dataset: U:\VG12.PRO\Results\201109R2\201109R2-5B.qld

Last Altered: Thursday, November 12, 2020 14:21:03 Pacific Standard Time

Printed: Thursday, November 12, 2020 14:22:16 Pacific Standard Time

*GPB 11/12/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

*CT 11/12/2020*

Name: 201109R2\_5, Date: 09-Nov-2020, Time: 22:28:12, ID: 2002171-06 USMPDI-051SG-201009 27.94, Description: USMPDI-051SG-201009

#	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	2.42e3	0.53	YES	0.950	10.054	26.171	26.16	1.001	1.001	0.46959		0.0666	0.375
2	2 1,2,3,7,8-PeCDD	4.60e3	0.57	NO	0.885	10.054	30.865	30.88	1.000	1.001	1.1665		0.0890	1.17
3	3 1,2,3,4,7,8-HxCDD	7.10e3	1.17	NO	1.02	10.054	34.207	34.20	1.001	1.001	2.0566		0.442	2.06
4	4 1,2,3,6,7,8-HxCDD	4.71e4	1.26	NO	0.915	10.054	34.311	34.32	1.000	1.001	13.122		0.451	13.1
5	5 1,2,3,7,8,9-HxCDD	1.55e4	1.31	NO	0.934	10.054	34.585	34.60	1.000	1.001	4.4306		0.469	4.43
6	6 1,2,3,4,6,7,8-HpCDD	1.25e6	1.01	NO	0.870	10.054	38.082	38.09	1.000	1.000	459.54		1.59	460
7	7 OCDD	9.40e6	0.88	NO	0.872	10.054	41.051	41.06	1.000	1.000	4009.7		1.12	4010
8	8 2,3,7,8-TCDF	8.53e4	0.74	NO	0.824	10.054	25.470	25.48	1.000	1.001	13.826		0.0787	13.8
9	9 1,2,3,7,8-PeCDF	6.68e4	1.59	NO	0.963	10.054	29.597	29.61	1.000	1.001	10.997		0.145	11.0
10	10 2,3,4,7,8-PeCDF	7.32e4	1.62	NO	1.07	10.054	30.655	30.67	1.000	1.001	11.017		0.132	11.0
11	11 1,2,3,4,7,8-HxCDF	7.92e4	1.19	NO	0.953	10.054	33.270	33.29	1.000	1.001	18.595		0.205	18.6
12	12 1,2,3,6,7,8-HxCDF	2.40e4	1.12	NO	1.01	10.054	33.412	33.42	1.000	1.000	5.2396		0.202	5.24
13	13 2,3,4,6,7,8-HxCDF	1.68e4	1.18	NO	0.991	10.054	34.074	34.09	1.000	1.001	3.9960		0.226	4.00
14	14 1,2,3,7,8,9-HxCDF	4.13e3	1.11	NO	0.951	10.054	35.080	35.09	1.000	1.000	1.1779		0.324	1.18
15	15 1,2,3,4,6,7,8-HpCDF	1.78e5	0.99	NO	0.999	10.054	36.659	36.67	1.000	1.000	57.106		0.408	57.1
16	16 1,2,3,4,7,8,9-HpCDF	1.40e4	0.96	NO	1.12	10.054	38.707	38.72	1.000	1.000	5.1818		0.410	5.18
17	17 OCDF	2.78e5	0.86	NO	0.868	10.054	41.344	41.35	1.000	1.000	118.42		0.277	118
18	18 13C-2,3,7,8-TCDD	1.08e6	0.79	NO	1.11	10.054	26.132	26.14	1.029	1.030	197.33	99.2	0.126	
19	19 13C-1,2,3,7,8-PeCDD	8.85e5	0.63	NO	0.859	10.054	30.745	30.86	1.211	1.215	209.12	105	0.258	
20	20 13C-1,2,3,4,7,8-HxCDD	6.74e5	1.28	NO	0.700	10.054	34.156	34.18	1.013	1.014	196.12	98.6	0.581	
21	21 13C-1,2,3,6,7,8-HxCDD	7.81e5	1.28	NO	0.833	10.054	34.284	34.30	1.017	1.018	190.79	95.9	0.488	
22	22 13C-1,2,3,7,8,9-HxCDD	7.44e5	1.24	NO	0.762	10.054	34.554	34.58	1.025	1.026	198.63	99.9	0.533	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.22e5	1.04	NO	0.650	10.054	37.989	38.08	1.127	1.130	194.73	97.9	0.852	
24	24 13C-OCDD	1.07e6	0.89	NO	0.539	10.054	40.918	41.05	1.214	1.218	403.45	101	0.540	
25	25 13C-2,3,7,8-TCDF	1.49e6	0.77	NO	0.981	10.054	25.467	25.46	1.003	1.003	197.51	99.3	0.170	
26	26 13C-1,2,3,7,8-PeCDF	1.25e6	1.60	NO	0.792	10.054	29.506	29.59	1.162	1.165	206.27	104	0.622	
27	27 13C-2,3,4,7,8-PeCDF	1.24e6	1.62	NO	0.778	10.054	30.557	30.66	1.204	1.207	207.11	104	0.634	
28	28 13C-1,2,3,4,7,8-HxCDF	8.88e5	0.51	NO	0.954	10.054	33.260	33.27	0.987	0.987	189.54	95.3	0.684	
29	29 13C-1,2,3,6,7,8-HxCDF	9.05e5	0.51	NO	1.01	10.054	33.398	33.41	0.991	0.991	183.00	92.0	0.648	
30	30 13C-2,3,4,6,7,8-HxCDF	8.43e5	0.50	NO	0.921	10.054	34.055	34.07	1.010	1.011	186.29	93.7	0.708	

Dataset: U:\VG12.PRO\Results\201109R2\201109R2-5B.qld

Last Altered: Thursday, November 12, 2020 14:21:03 Pacific Standard Time

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Name: 201109R2\_5, Date: 09-Nov-2020, Time: 22:28:12, ID: 2002171-06 USMPDI-051SG-201009 27.94, Description: USMPDI-051SG-201009

	# 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	7.34e5	0.49	NO	0.803	10.054	35.053	35.08	1.040	1.041	185.86	93.4	0.812	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.19e5	0.43	NO	0.735	10.054	36.617	36.65	1.086	1.087	171.33	86.1	0.624	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.77e5	0.43	NO	0.568	10.054	38.599	38.71	1.145	1.148	171.01	86.0	0.808	
34	34 13C-OCDF	1.08e6	0.89	NO	0.629	10.054	41.208	41.34	1.222	1.226	348.04	87.5	0.420	
35	35 37Cl-2,3,7,8-TCDD	4.90e5			1.09	10.054	26.150	26.17	1.030	1.031	91.405	115	0.0627	
36	36 13C-1,2,3,4-TCDD	9.81e5	0.80	NO	1.00	10.054	25.430	25.39	1.000	1.000	198.92	100	0.139	
37	37 13C-1,2,3,4-TCDF	1.53e6	0.79	NO	1.00	10.054	24.130	23.90	1.000	1.000	198.92	100	0.167	
38	38 13C-1,2,3,4,6,9-HxCDF	9.78e5	0.51	NO	1.00	10.054	33.840	33.71	1.000	1.000	198.92	100	0.652	
39	39 Total Tetra-Dioxins				0.950	10.054	24.620		0.000		5.2206		0.0666	5.60
40	40 Total Penta-Dioxins				0.885	10.054	29.960		0.000		9.3690		0.0890	11.4
41	41 Total Hexa-Dioxins				0.915	10.054	33.635		0.000		174.55		0.473	175
42	42 Total Hepta-Dioxins				0.870	10.054	37.640		0.000		1576.5		1.59	1580
43	43 Total Tetra-Furans				0.824	10.054	23.610		0.000		45.924		0.0787	46.5
44	44 1st Func. Penta-Furans				0.963	10.054	27.230		0.000		18.349		0.0194	18.3
45	45 Total Penta-Furans				0.963	10.054	29.275		0.000		45.170		0.146	45.2
46	46 Total Hexa-Furans				0.991	10.054	33.555		0.000		169.25		0.232	169
47	47 Total Hepta-Furans				0.999	10.054	37.835		0.000		218.21		0.431	218



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Dataset: U:\VG12.PRO\Results\201109R2\201109R2-5B.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

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Name: 201109R2\_5, Date: 09-Nov-2020, Time: 22:28:12, ID: 2002171-06 USMPDI-051SG-201009 27.94, Description: USMPDI-051SG-201009

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.36	2.941e4	4.861e4	2.770e3	3.658e3	0.76	NO	6.428e3	1.2475	1.2475	0.0666
2	Total Tetra-Dioxins	22.73	1.663e4	2.217e4	1.455e3	1.690e3	0.86	NO	3.145e3	0.61042	0.61042	0.0666
3	Total Tetra-Dioxins	23.24	6.269e3	7.714e3	3.560e2	5.326e2	0.67	NO	8.886e2	0.17245	0.17245	0.0666
4	Total Tetra-Dioxins	24.09	1.136e4	1.048e4	6.560e2	8.328e2	0.79	NO	1.489e3	0.28895	0.28895	0.0666
5	Total Tetra-Dioxins	24.31	8.717e3	1.136e4	7.091e2	9.158e2	0.77	NO	1.625e3	0.31534	0.31534	0.0666
6	Total Tetra-Dioxins	24.52	1.238e4	1.597e4	7.799e2	1.024e3	0.76	NO	1.804e3	0.35009	0.35009	0.0666
7	Total Tetra-Dioxins	24.74	3.829e3	5.368e3	2.719e2	3.843e2	0.71	NO	6.561e2	0.12734	0.12734	0.0666
8	Total Tetra-Dioxins	25.05	2.708e3	3.568e3	1.671e2	2.051e2	0.81	NO	3.723e2	0.072245	0.072245	0.0666
9	Total Tetra-Dioxins	25.12	3.807e3	7.307e3	2.841e2	3.871e2	0.73	NO	6.712e2	0.13027	0.13027	0.0666
10	Total Tetra-Dioxins	25.89	5.965e4	7.943e4	3.865e3	5.100e3	0.76	NO	8.965e3	1.7399	1.7399	0.0666
11	1,2,3,7,8-TCDD	26.16	1.430e4	2.697e4	8.409e2	1.579e3	0.53	YES	2.420e3	0.00000	0.37513	0.0666
12	Total Tetra-Dioxins	26.51	5.161e3	7.469e3	3.905e2	4.654e2	0.84	NO	8.559e2	0.16612	0.16612	0.0666

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.60	4.773e4	8.483e4	4.134e3	6.644e3	0.62	NO	1.078e4	2.7354	2.7354	0.0890
2	Total Penta-Dioxins	29.08	4.247e4	7.213e4	2.260e3	3.701e3	0.61	NO	5.960e3	1.5127	1.5127	0.0890
3	Total Penta-Dioxins	29.61	3.273e4	6.083e4	1.794e3	2.882e3	0.62	NO	4.676e3	1.1868	1.1868	0.0890
4	Total Penta-Dioxins	29.79	3.953e4	5.717e4	2.205e3	3.554e3	0.62	NO	0.000e0	0.00000	1.4615	0.0890
5	Total Penta-Dioxins	29.83	2.255e4	3.909e4	9.070e2	1.416e3	0.64	NO	0.000e0	0.00000	0.58947	0.0890
6	Total Penta-Dioxins	30.09	3.543e4	5.802e4	2.703e3	4.048e3	0.67	NO	6.751e3	1.7133	1.7133	0.0890
7	Total Penta-Dioxins	30.41	6.548e3	1.171e4	4.376e2	6.397e2	0.68	NO	1.077e3	0.27342	0.27342	0.0890
8	1,2,3,7,8-PeCDD	30.88	3.347e4	5.438e4	1.666e3	2.930e3	0.57	NO	4.596e3	1.1665	1.1665	0.0890
9	Total Penta-Dioxins	30.98	1.049e4	1.414e4	6.272e2	8.870e2	0.71	NO	1.514e3	0.38432	0.38432	0.0890
10	Total Penta-Dioxins	31.24	1.291e4	1.699e4	6.363e2	9.264e2	0.69	NO	1.563e3	0.39660	0.39660	0.0890

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Dataset: U:\VG12.PRO\Results\201109R2\201109R2-5B.qld

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Name: 201109R2\_5, Date: 09-Nov-2020, Time: 22:28:12, ID: 2002171-06 USMPDI-051SG-201009 27.94, Description: USMPDI-051SG-201009

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.56	2.646e6	2.122e6	1.429e5	1.152e5	1.24	NO	2.581e5	76.598	76.598	0.473
2	Total Hexa-Dioxins	33.16	2.532e5	1.982e5	1.467e4	1.161e4	1.26	NO	2.628e4	7.7990	7.7990	0.473
3	Total Hexa-Dioxins	33.44	1.364e6	1.089e6	1.052e5	8.351e4	1.26	NO	1.887e5	56.001	56.001	0.473
4	Total Hexa-Dioxins	33.54	3.569e5	2.652e5	2.095e4	1.611e4	1.30	NO	3.706e4	10.997	10.997	0.473
5	1,2,3,4,7,8-HxCDD	34.20	5.769e4	4.763e4	3.824e3	3.272e3	1.17	NO	7.096e3	2.0566	2.0566	0.442
6	1,2,3,6,7,8-HxCDD	34.32	3.736e5	3.054e5	2.626e4	2.085e4	1.26	NO	4.711e4	13.122	13.122	0.451
7	Total Hexa-Dioxins	34.48	8.511e4	6.924e4	6.744e3	5.194e3	1.30	NO	1.194e4	3.5424	3.5424	0.473
8	1,2,3,7,8,9-HxCDD	34.60	1.243e5	1.009e5	8.778e3	6.701e3	1.31	NO	1.548e4	4.4306	4.4306	0.469

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.06	1.759e7	1.737e7	1.532e6	1.505e6	1.02	NO	3.036e6	1117.0	1117.0	1.59
2	1,2,3,4,6,7,8-HpCDD	38.09	8.716e6	8.505e6	6.292e5	6.200e5	1.01	NO	1.249e6	459.54	459.54	1.59

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Dataset: U:\VG12.PRO\Results\201109R2\201109R2-5B.qld

Last Altered: Thursday, November 12, 2020 14:21:03 Pacific Standard Time

Printed: Thursday, November 12, 2020 14:22:16 Pacific Standard Time

Name: 201109R2\_5, Date: 09-Nov-2020, Time: 22:28:12, ID: 2002171-06 USMPDI-051SG-201009 27.94, Description: USMPDI-051SG-201009

**Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.13	1.177e4	1.728e4	9.685e2	1.317e3	0.74	NO	2.286e3	0.37047	0.37047	0.0787
2	Total Tetra-Furans	20.70	1.392e4	1.699e4	1.154e3	1.627e3	0.71	NO	2.782e3	0.45084	0.45084	0.0787
3	Total Tetra-Furans	21.49	7.866e4	1.042e5	7.217e3	9.399e3	0.77	NO	1.662e4	2.6931	2.6931	0.0787
4	Total Tetra-Furans	21.84	7.303e3	9.191e3	6.603e2	8.554e2	0.77	NO	1.516e3	0.24568	0.24568	0.0787
5	Total Tetra-Furans	21.99	1.459e4	2.148e4	1.443e3	2.046e3	0.71	NO	0.000e0	0.00000	0.56542	0.0787
6	Total Tetra-Furans	22.09	1.465e4	1.395e4	1.150e3	1.312e3	0.88	NO	2.461e3	0.39893	0.39893	0.0787
7	Total Tetra-Furans	22.42	9.553e4	1.386e5	1.043e4	1.468e4	0.71	NO	2.510e4	4.0685	4.0685	0.0787
8	Total Tetra-Furans	22.90	5.147e4	7.729e4	4.586e3	6.696e3	0.68	NO	1.128e4	1.8285	1.8285	0.0787
9	Total Tetra-Furans	23.01	1.187e4	1.790e4	9.985e2	1.430e3	0.70	NO	2.429e3	0.39369	0.39369	0.0787
10	Total Tetra-Furans	23.22	2.762e4	3.888e4	2.452e3	3.096e3	0.79	NO	5.548e3	0.89922	0.89922	0.0787
11	Total Tetra-Furans	23.64	7.379e3	9.250e3	5.405e2	8.180e2	0.66	NO	1.359e3	0.22019	0.22019	0.0787
12	Total Tetra-Furans	23.76	8.444e3	1.497e4	7.671e2	1.165e3	0.66	NO	1.932e3	0.31321	0.31321	0.0787
13	Total Tetra-Furans	23.95	3.548e4	4.693e4	1.488e3	1.984e3	0.75	NO	3.472e3	0.56280	0.56280	0.0787
14	Total Tetra-Furans	24.01	6.980e4	9.420e4	7.516e3	9.695e3	0.78	NO	1.721e4	2.7897	2.7897	0.0787
15	Total Tetra-Furans	24.47	3.958e5	5.471e5	2.961e4	3.924e4	0.75	NO	6.885e4	11.159	11.159	0.0787
16	Total Tetra-Furans	24.80	2.373e4	2.713e4	1.722e3	1.951e3	0.88	NO	3.673e3	0.59537	0.59537	0.0787
17	Total Tetra-Furans	24.90	7.069e3	7.725e3	3.607e2	4.228e2	0.85	NO	7.835e2	0.12699	0.12699	0.0787
18	Total Tetra-Furans	25.21	1.217e4	1.347e4	7.510e2	9.996e2	0.75	NO	1.751e3	0.28374	0.28374	0.0787
19	Total Tetra-Furans	25.36	7.673e4	1.046e5	4.834e3	6.318e3	0.77	NO	1.115e4	1.8076	1.8076	0.0787
20	2,3,7,8-TCDF	25.48	5.458e5	7.619e5	3.619e4	4.912e4	0.74	NO	8.530e4	13.826	13.826	0.0787
21	Total Tetra-Furans	25.79	4.577e4	5.209e4	2.929e3	4.019e3	0.73	NO	6.948e3	1.1262	1.1262	0.0787
22	Total Tetra-Furans	26.05	7.102e3	8.222e3	4.179e2	5.787e2	0.72	NO	9.966e2	0.16153	0.16153	0.0787
23	Total Tetra-Furans	27.00	3.417e4	4.338e4	1.949e3	2.795e3	0.70	NO	4.744e3	0.76886	0.76886	0.0787
24	Total Tetra-Furans	27.38	3.516e4	5.252e4	2.082e3	3.064e3	0.68	NO	5.146e3	0.83401	0.83401	0.0787

**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	26.99	1.168e6	7.477e5	6.828e4	4.234e4	1.61	NO	1.106e5	18.349	18.349	0.0194

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201109R2\201109R2-5B.qld

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Name: 201109R2\_5, Date: 09-Nov-2020, Time: 22:28:12, ID: 2002171-06 USMPDI-051SG-201009 27.94, Description: USMPDI-051SG-201009

**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.46	5.534e4	3.170e4	3.924e3	2.478e3	1.58	NO	6.402e3	1.0619	1.0619	0.146
2	Total Penta-Furans	28.62	6.140e5	3.989e5	4.099e4	2.641e4	1.55	NO	6.741e4	11.181	11.181	0.146
3	Total Penta-Furans	29.08	1.600e4	1.048e4	8.813e2	5.224e2	1.69	NO	1.404e3	0.23283	0.23283	0.146
4	Total Penta-Furans	29.25	1.200e5	8.741e4	7.880e3	5.603e3	1.41	NO	1.348e4	2.2364	2.2364	0.146
5	Total Penta-Furans	29.41	1.336e5	8.320e4	6.793e3	4.328e3	1.57	NO	1.112e4	1.8447	1.8447	0.146
6	1,2,3,7,8-PeCDF	29.61	7.323e5	4.857e5	4.098e4	2.577e4	1.59	NO	6.675e4	10.997	10.997	0.145
7	Total Penta-Furans	29.87	3.918e5	2.508e5	2.112e4	1.354e4	1.56	NO	3.467e4	5.7504	5.7504	0.146
8	Total Penta-Furans	30.49	2.292e4	1.529e4	1.380e3	9.600e2	1.44	NO	2.340e3	0.38809	0.38809	0.146
9	2,3,4,7,8-PeCDF	30.67	7.837e5	5.026e5	4.522e4	2.800e4	1.62	NO	7.321e4	11.017	11.017	0.132
10	Total Penta-Furans	31.60	2.797e4	1.795e4	1.632e3	1.142e3	1.43	NO	2.775e3	0.46024	0.46024	0.146

**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.02	5.403e5	4.703e5	2.899e4	2.433e4	1.19	NO	5.332e4	12.705	12.705	0.232
2	Total Hexa-Furans	32.19	1.657e6	1.354e6	8.973e4	7.391e4	1.21	NO	1.636e5	38.995	38.995	0.232
3	Total Hexa-Furans	32.59	1.859e4	1.503e4	9.716e2	7.473e2	1.30	NO	1.719e3	0.40960	0.40960	0.232
4	Total Hexa-Furans	32.82	3.385e6	2.808e6	1.950e5	1.597e5	1.22	NO	3.548e5	84.540	84.540	0.232
5	Total Hexa-Furans	33.16	2.487e4	2.130e4	1.431e3	1.149e3	1.25	NO	2.580e3	0.61483	0.61483	0.232
6	1,2,3,4,7,8-HxCDF	33.29	7.331e5	6.033e5	4.307e4	3.611e4	1.19	NO	7.919e4	18.595	18.595	0.205
7	1,2,3,6,7,8-HxCDF	33.42	2.015e5	1.761e5	1.267e4	1.135e4	1.12	NO	2.402e4	5.2396	5.2396	0.202
8	2,3,4,6,7,8-HxCDF	34.09	1.219e5	1.037e5	9.082e3	7.701e3	1.18	NO	1.678e4	3.9960	3.9960	0.226
9	1,2,3,7,8,9-HxCDF	35.09	7.797e4	6.579e4	2.171e3	1.960e3	1.11	NO	4.131e3	1.1779	1.1779	0.324
10	Total Hexa-Furans	35.12	1.069e5	8.283e4	6.961e3	5.549e3	1.25	NO	1.251e4	2.9809	2.9809	0.232

**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.67	1.048e6	1.065e6	8.854e4	8.900e4	0.99	NO	1.775e5	57.106	57.106	0.408
2	Total Hepta-Furans	37.40	2.561e6	2.551e6	2.144e5	2.146e5	1.00	NO	4.291e5	155.92	155.92	0.431
3	1,2,3,4,7,8,9-HpCDF	38.72	9.218e4	1.089e5	6.853e3	7.114e3	0.96	NO	1.397e4	5.1818	5.1818	0.410

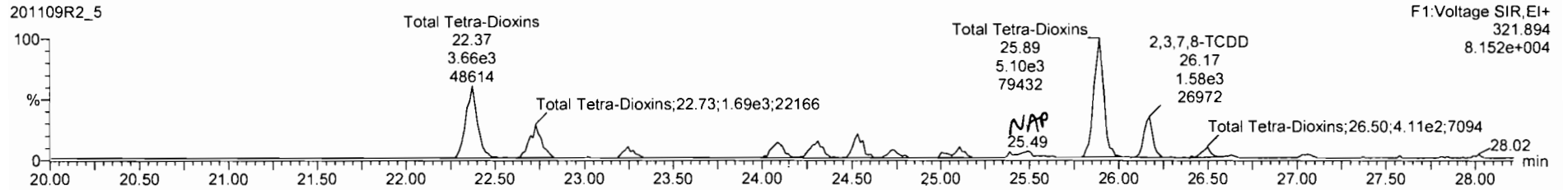
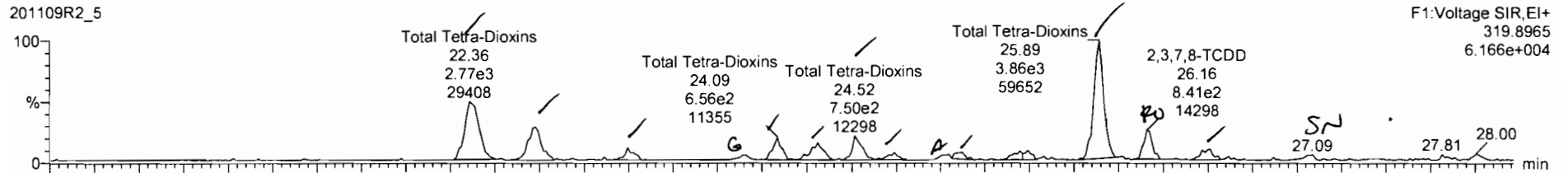
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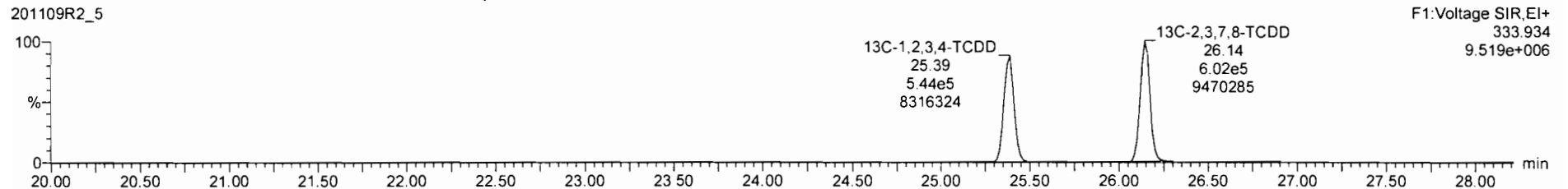
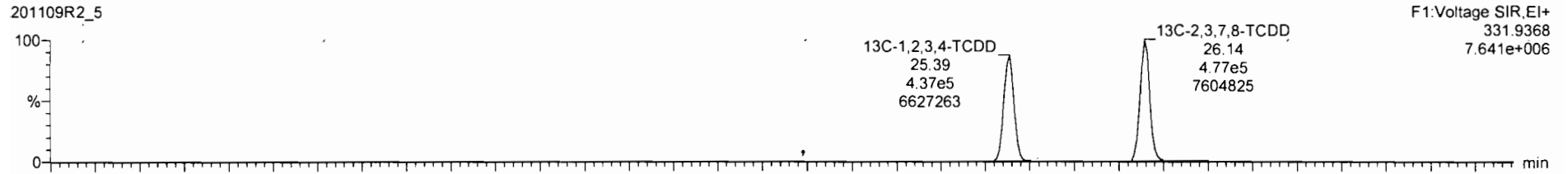
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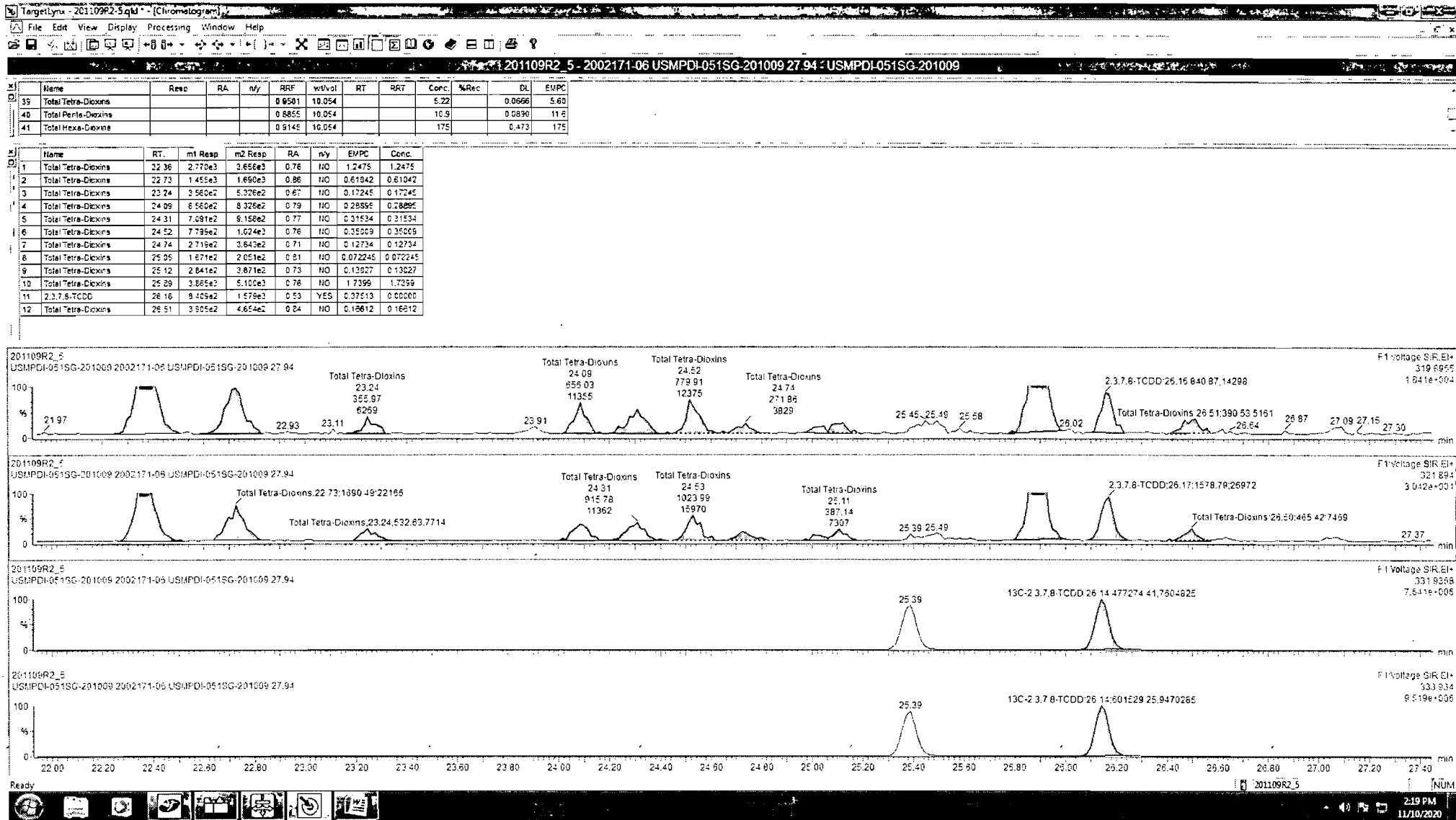
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2,3,7,8-TCDD



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





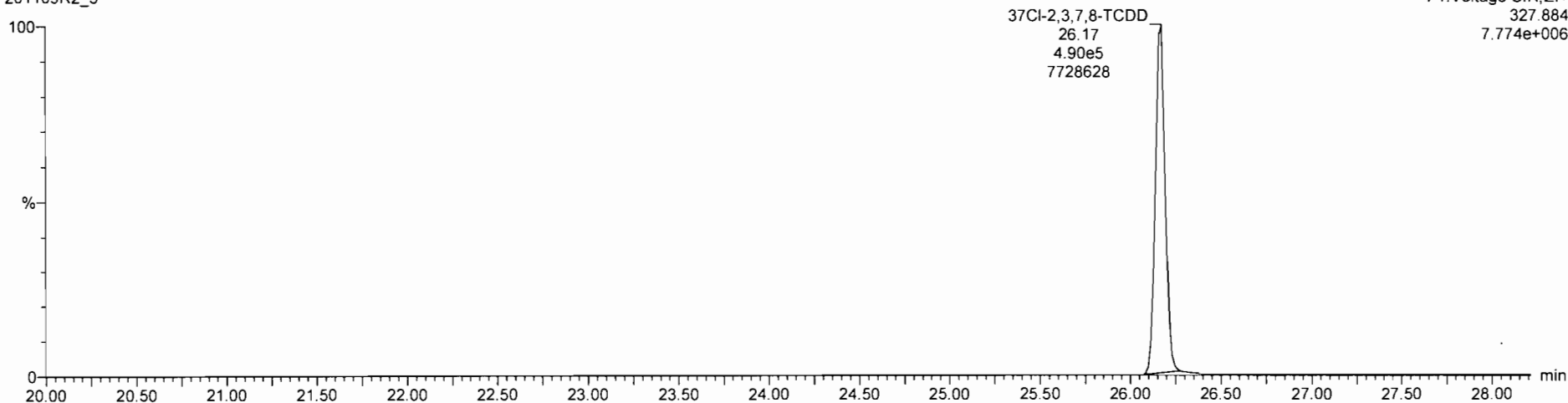
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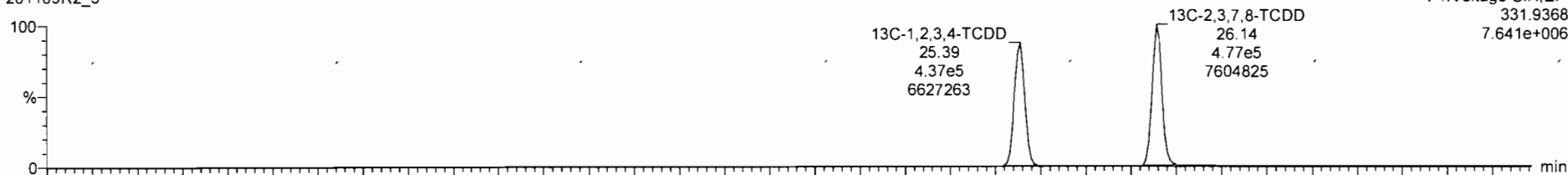
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201109R2\_5

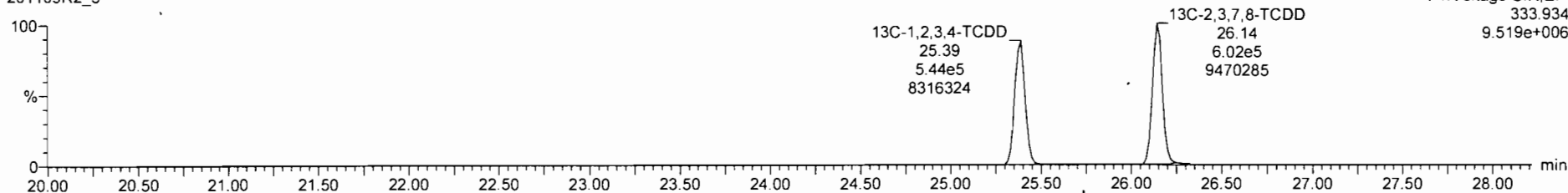


**13C-1,2,3,4-TCDD**

201109R2\_5



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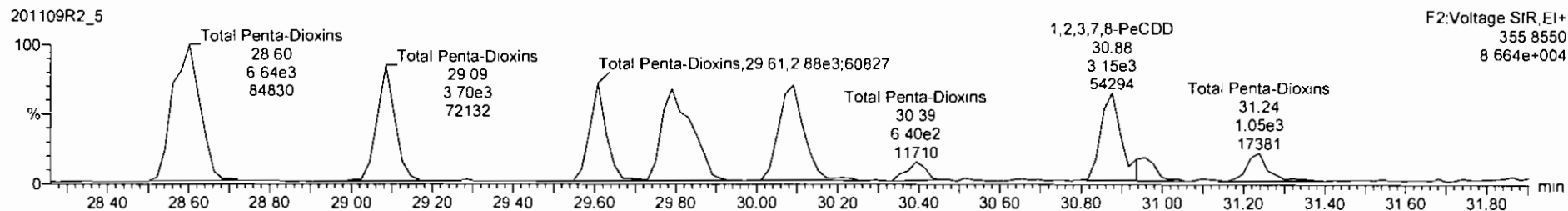
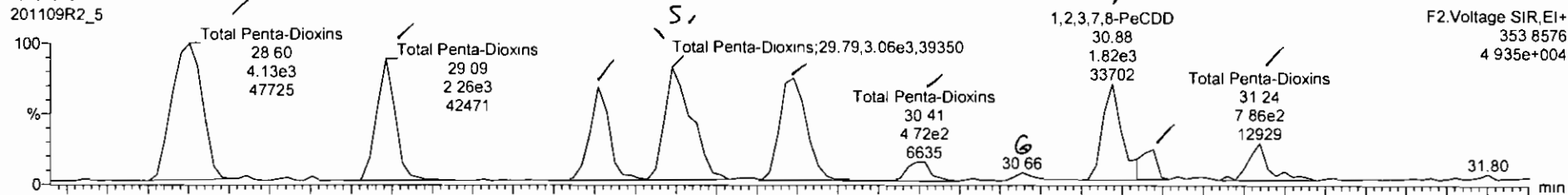
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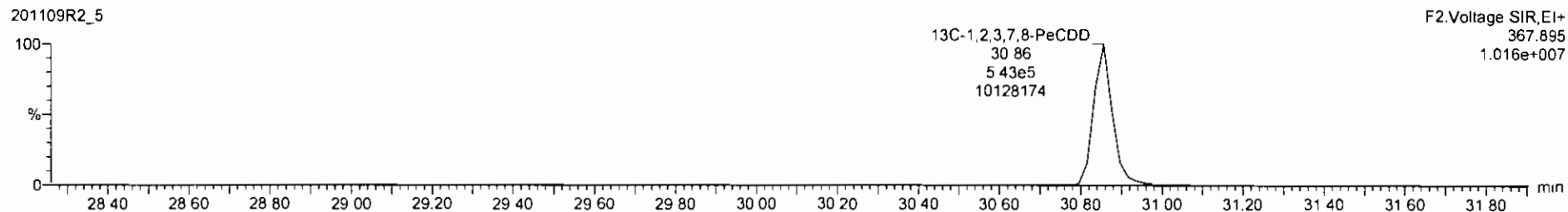
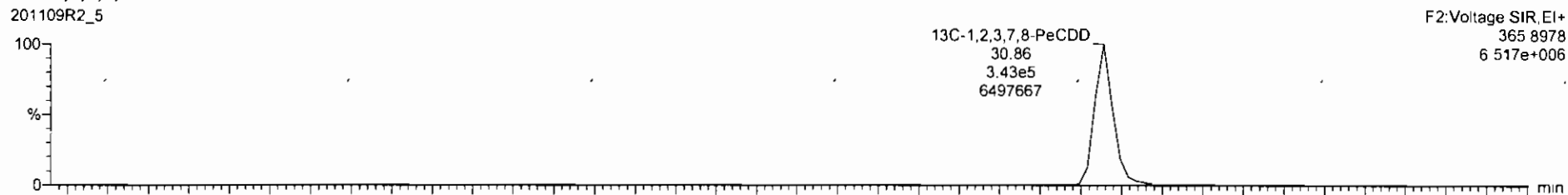
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1,2,3,7,8-PeCDD



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

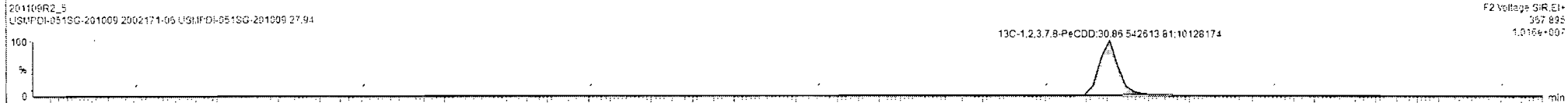
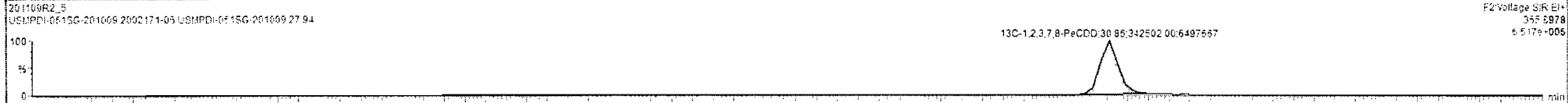
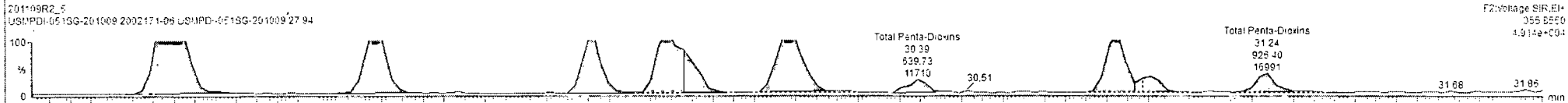
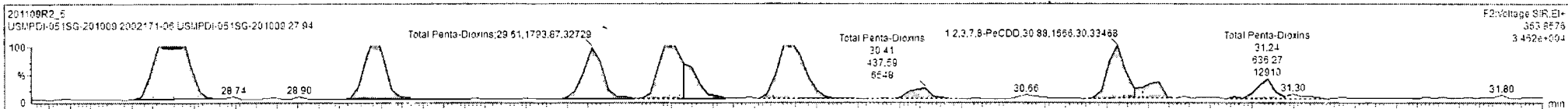




201109R2\_5 - 2002171-06 USMPDI-051SG-201009 27.94 - USMPDI-051SG-201009

Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
35 Total Tetra-Dioxins				0.9501	10.054			5.22	0.0686	5.60	
40 Total Penta-Dioxins				0.6855	10.054			9.37	0.0890	11.4	
41 Total Hexa-Dioxins				0.9145	10.054			175	0.473	175	

Name	RT	m1 Reso	m2 Reso	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	26.60	4.134e3	5.644e3	0.62	NO	2.7354	2.7354
2 Total Penta-Dioxins	29.06	2.260e3	3.701e3	0.61	NO	1.5127	1.5127
3 Total Penta-Dioxins	29.61	1.794e3	2.682e3	0.62	NO	1.1866	1.1866
4 Total Penta-Dioxins	29.79	2.205e3	3.554e3	0.62	NO	1.4615	0.03000
5 Total Penta-Dioxins	29.83	9.070e2	1.416e2	0.64	NO	0.58947	0.00000
6 Total Penta-Dioxins	30.09	2.703e3	4.046e3	0.57	NO	1.7133	1.7133
7 Total Penta-Dioxins	30.41	4.376e2	6.397e2	0.58	NO	0.27342	0.27342
8 1,2,3,7,8-PeCDD	30.88	1.866e3	2.920e3	0.57	NO	1.1665	1.1665
9 Total Penta-Dioxins	30.98	6.272e2	8.670e2	0.71	NO	0.38432	0.38432
10 Total Penta-Dioxins	31.24	6.363e2	9.254e2	0.69	NO	0.39660	0.39660

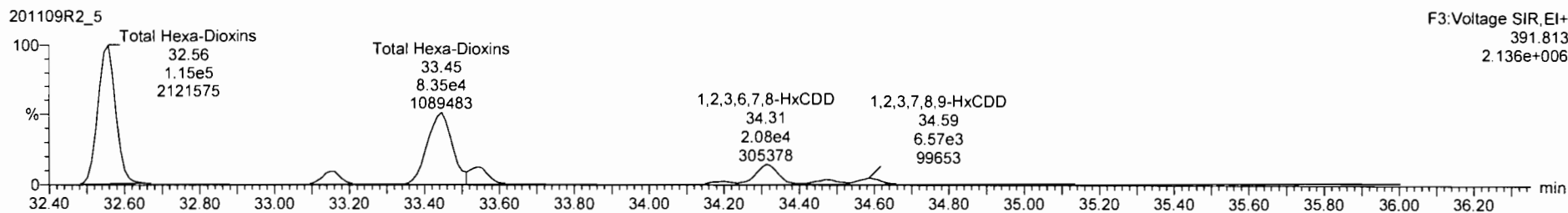
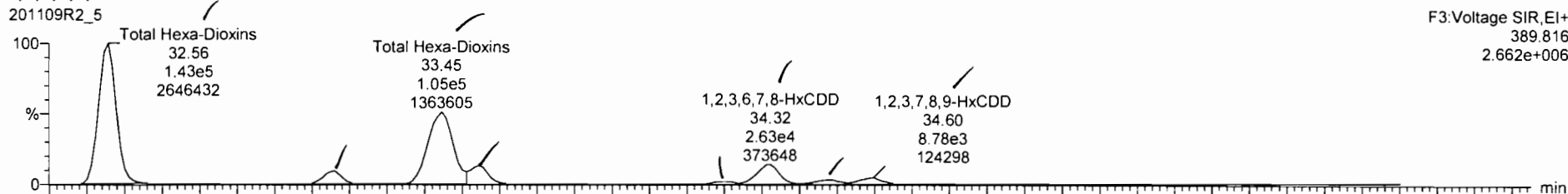


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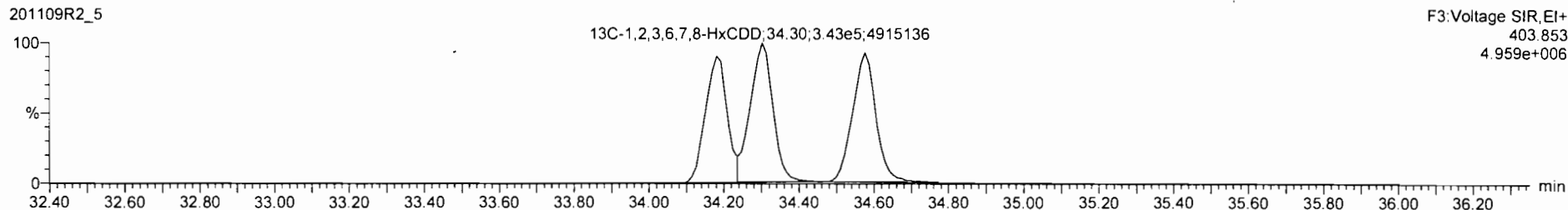
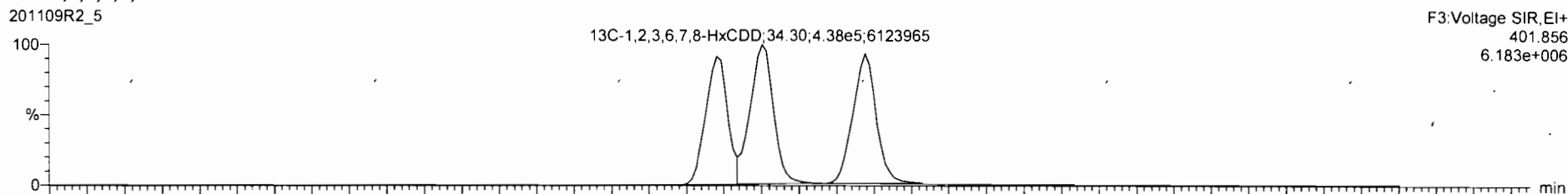
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1,2,3,4,7,8-HxCDD

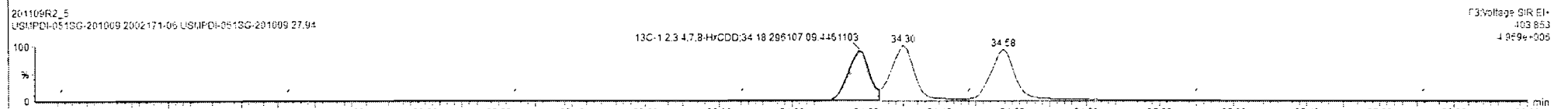
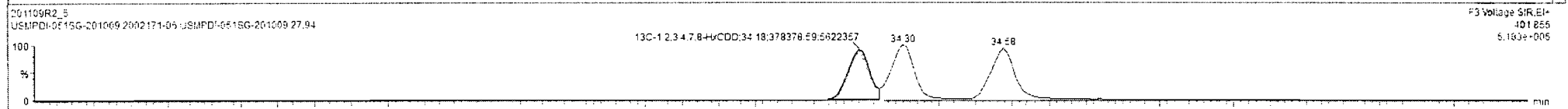
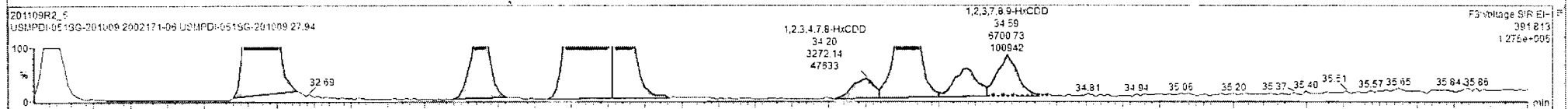
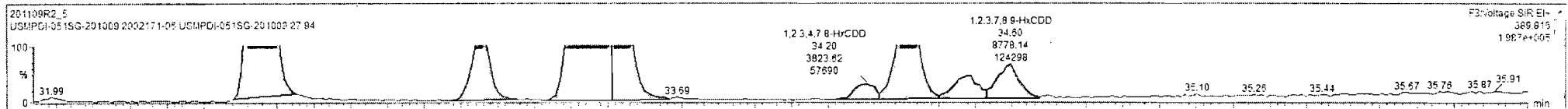


13C-1,2,3,4,7,8-HxCDD



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.054			5.22	0.0666	5.80	
40 Total Penta-Dioxins				0.8855	10.054			9.37	0.0890	11.4	
41 Total Hexa-Dioxins				0.6145	10.054			175	0.473	175	

Name	RT	ml Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.56	1.429e5	1.152e5	1.24	NO	76.596	76.598
2 Total Hexa-Dioxins	33.16	1.467e4	1.161e4	1.26	NO	7.7990	7.7990
3 Total Hexa-Dioxins	33.44	1.052e5	8.251e4	1.28	NO	56.001	56.001
4 Total Hexa-Dioxins	33.54	2.095e4	1.611e4	1.30	NO	10.997	10.997
5 1,2,3,4,7,8-HxCDD	34.20	3.824e3	3.272e3	1.17	NO	2.0566	2.0566
6 1,2,3,6,7,8-HxCDD	34.32	2.626e4	2.085e4	1.26	NO	13.122	13.122
7 Total Hexa-Dioxins	34.48	6.744e3	5.194e3	1.30	NO	3.5424	3.5424
8 1,2,3,7,8,9-HxCDD	34.60	8.778e3	6.701e3	1.31	NO	4.4306	4.4306



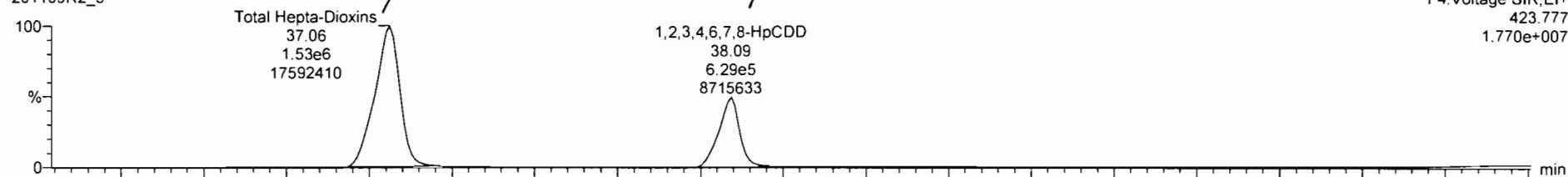
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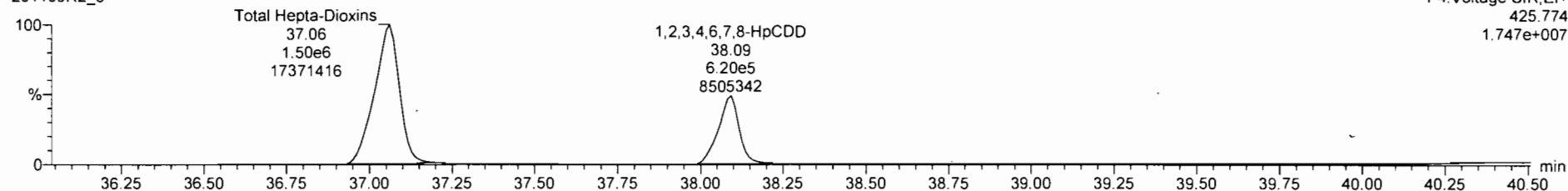
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1,2,3,4,6,7,8-HpCDD

201109R2\_5

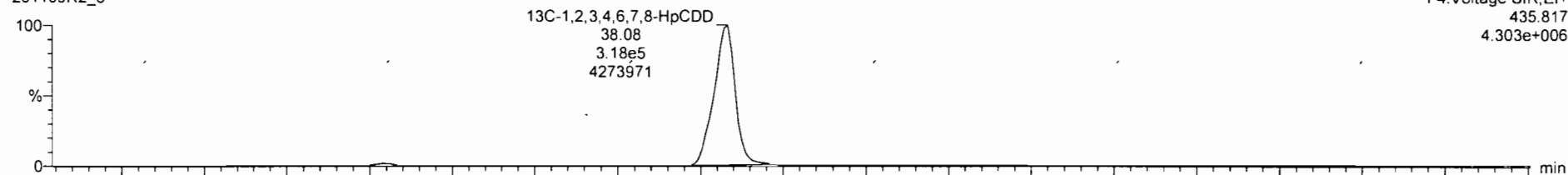


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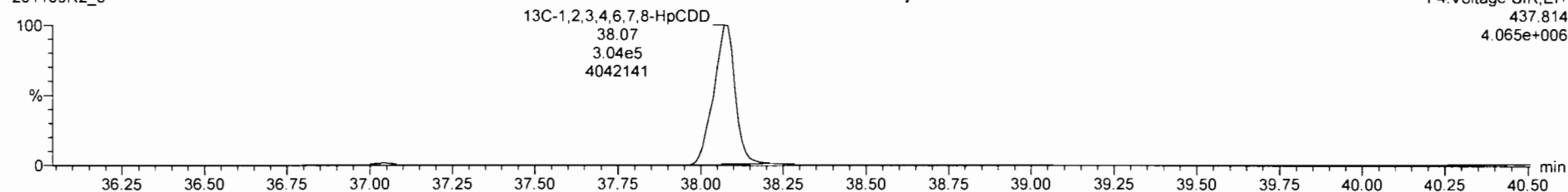


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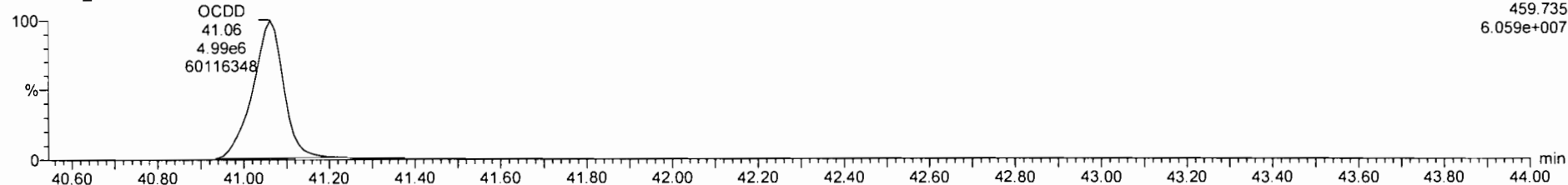
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OCDD

201109R2\_5

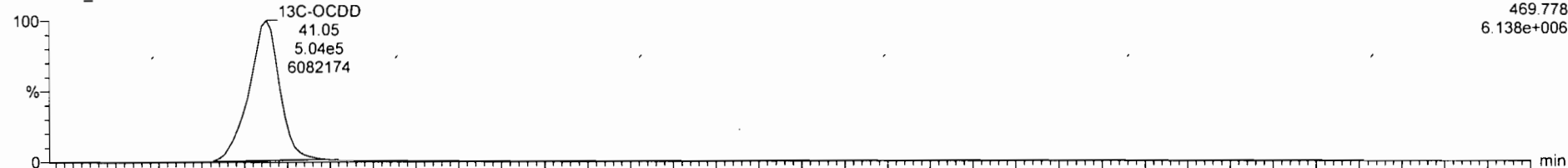


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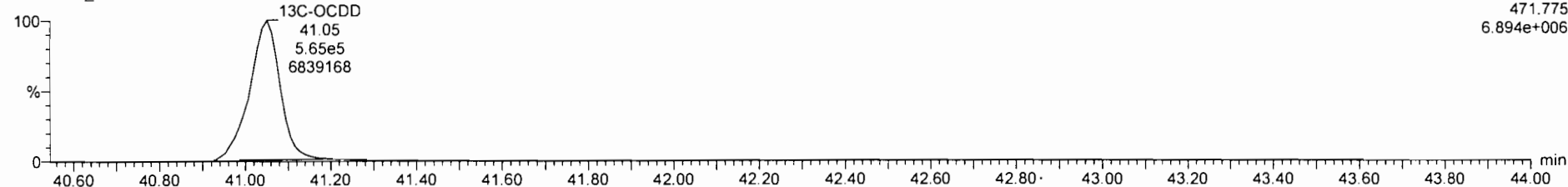


13C-OCDD

201109R2\_5



201109R2\_5

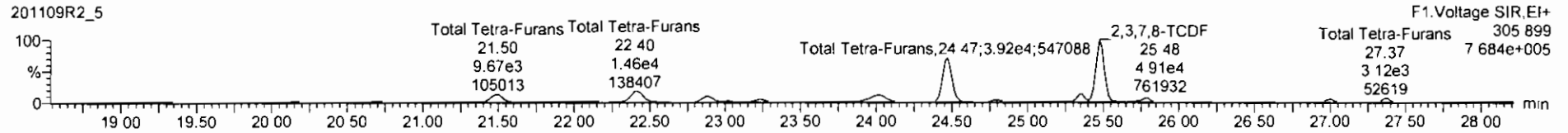
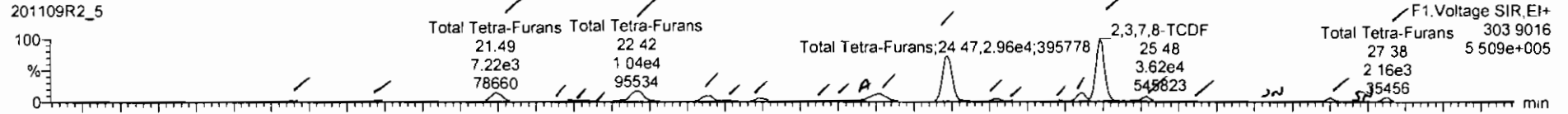


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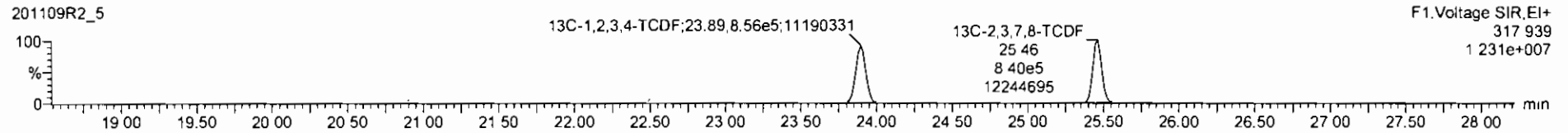
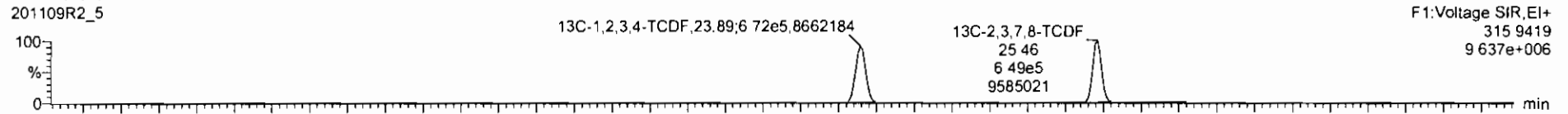
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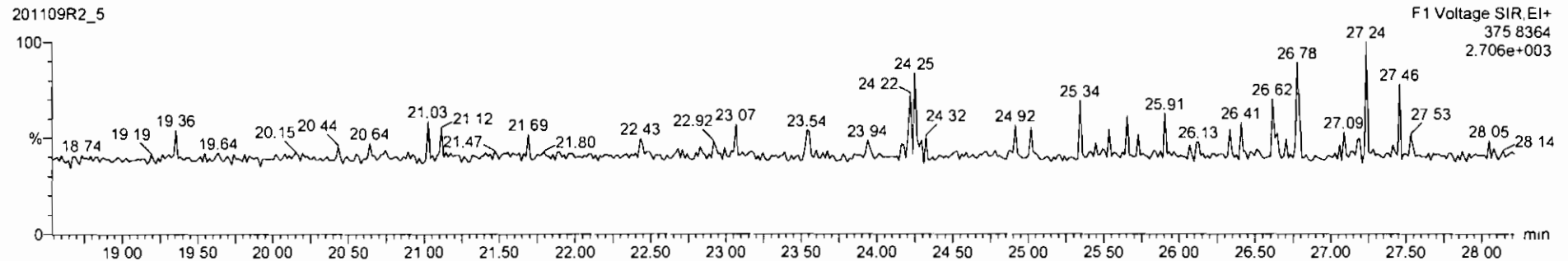
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**13C-2,3,7,8-TCDF**

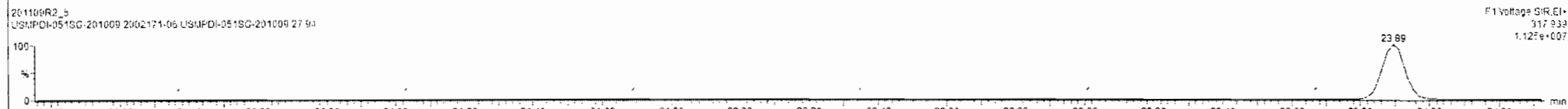
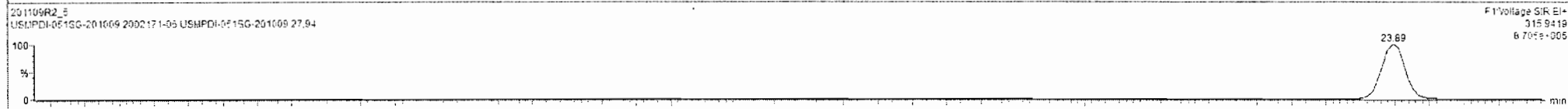
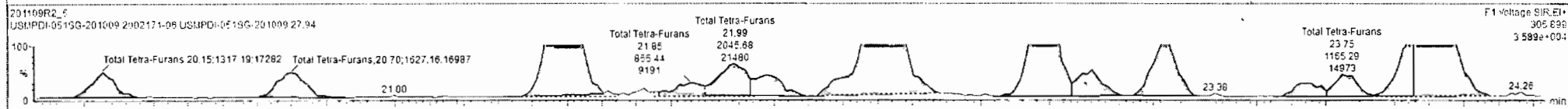
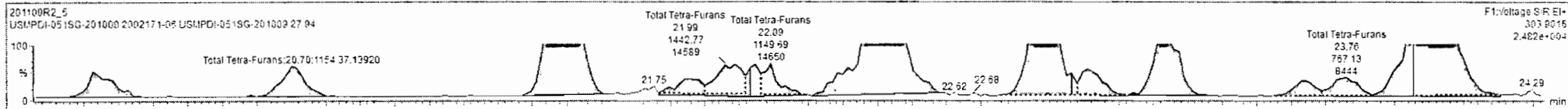


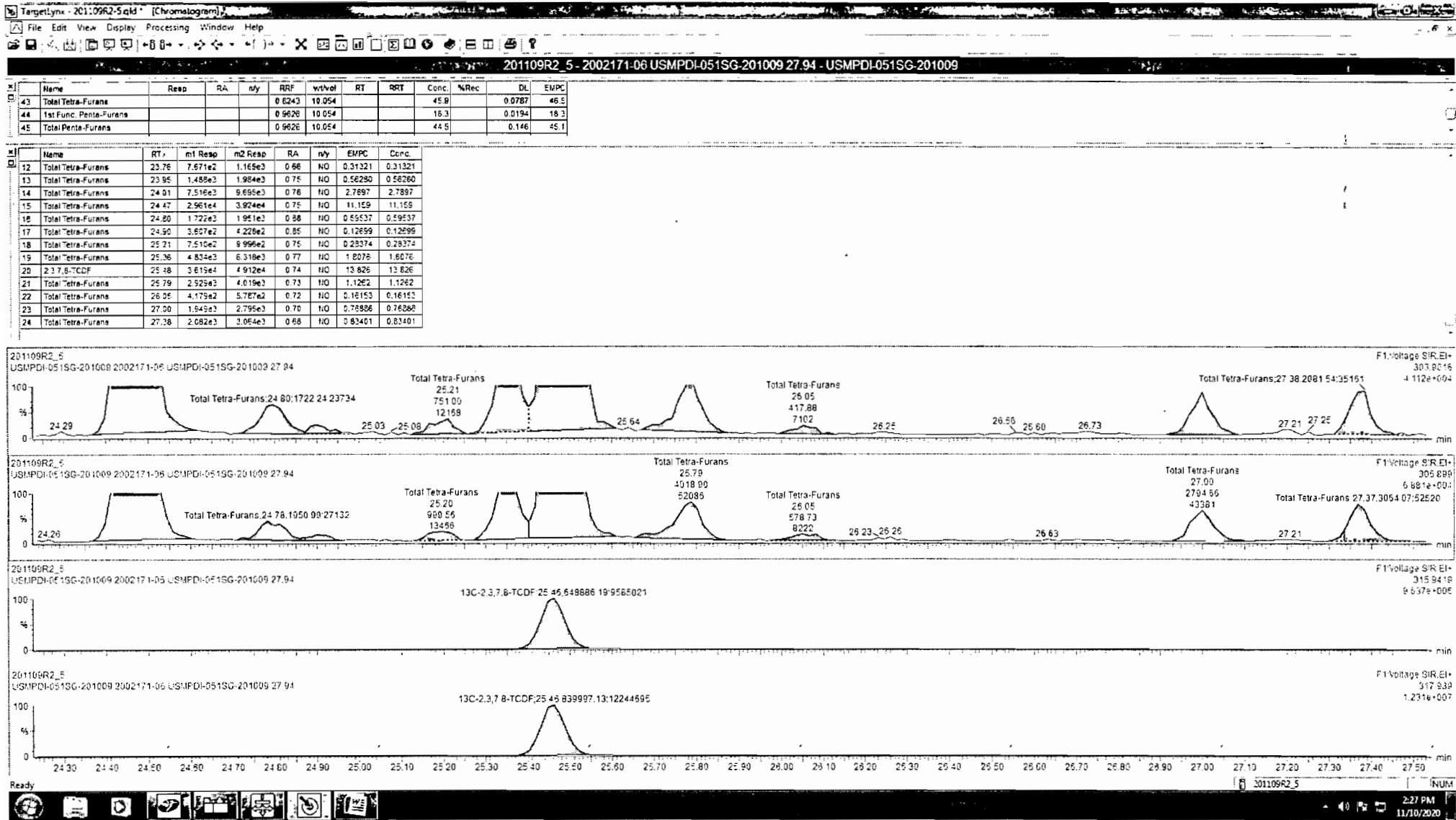
**DPE1**



Name	Reso	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.054			45.7		0.0787	46.6
44 1st Func. Penta-Furans				0.9626	10.054			16.3		0.0194	18.3
45 Total Penta-Furans				0.9626	10.054			44.5		0.146	45.1

Name	RT	m1 Reso	m2 Reso	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.13	9.655e2	1.317e3	0.74	NO	0.37947	0.37047
2 Total Tetra-Furans	20.70	1.154e3	1.627e3	0.71	NO	0.45084	0.45084
3 Total Tetra-Furans	21.49	7.217e2	9.399e3	0.77	NO	2.6931	2.6931
4 Total Tetra-Furans	21.84	6.603e2	8.554e2	0.77	NO	0.24568	0.24568
5 Total Tetra-Furans	21.99	1.443e3	2.046e3	0.71	NO	0.55542	0.60000
6 Total Tetra-Furans	22.09	1.150e3	1.312e3	0.86	NO	0.35553	0.39893
7 Total Tetra-Furans	22.42	1.043e4	1.462e4	0.71	NO	4.2685	4.6285
8 Total Tetra-Furans	22.90	4.586e3	6.696e3	0.68	NO	1.8285	1.8285
9 Total Tetra-Furans	23.01	9.985e2	1.430e3	0.70	NO	0.39329	0.39369
10 Total Tetra-Furans	23.22	2.452e2	3.096e3	0.79	NO	0.89922	0.89922
11 Total Tetra-Furans	23.54	6.405e2	8.180e2	0.66	NO	0.22819	0.22019
12 Total Tetra-Furans	23.76	7.671e2	1.185e3	0.86	NO	0.31321	0.31321
13 Total Tetra-Furans	23.95	1.488e2	1.964e3	0.75	NO	0.56280	0.56280
14 Total Tetra-Furans	24.01	7.515e2	9.695e2	0.78	NO	2.7697	2.7697







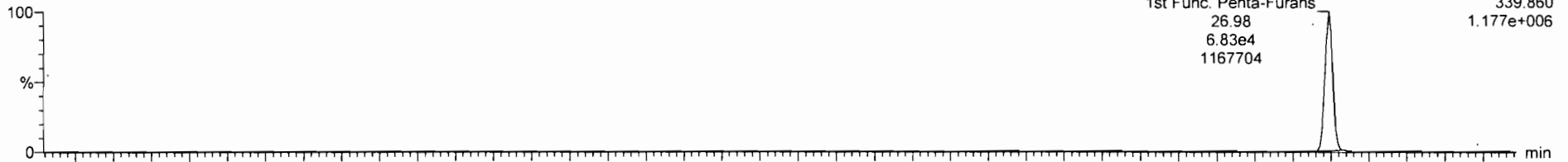
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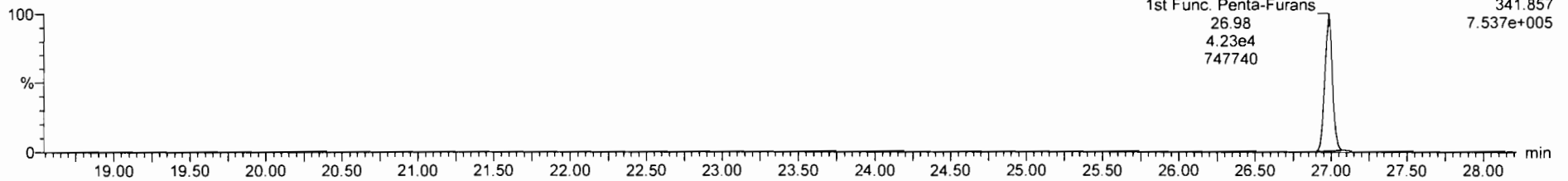
Name: 201109R2\_5, Date: 09-Nov-2020, Time: 22:28:12, ID: 2002171-06 USMPDI-051SG-201009 27.94, Description: USMPDI-051SG-201009

1st Func. Penta-Furans

201109R2\_5

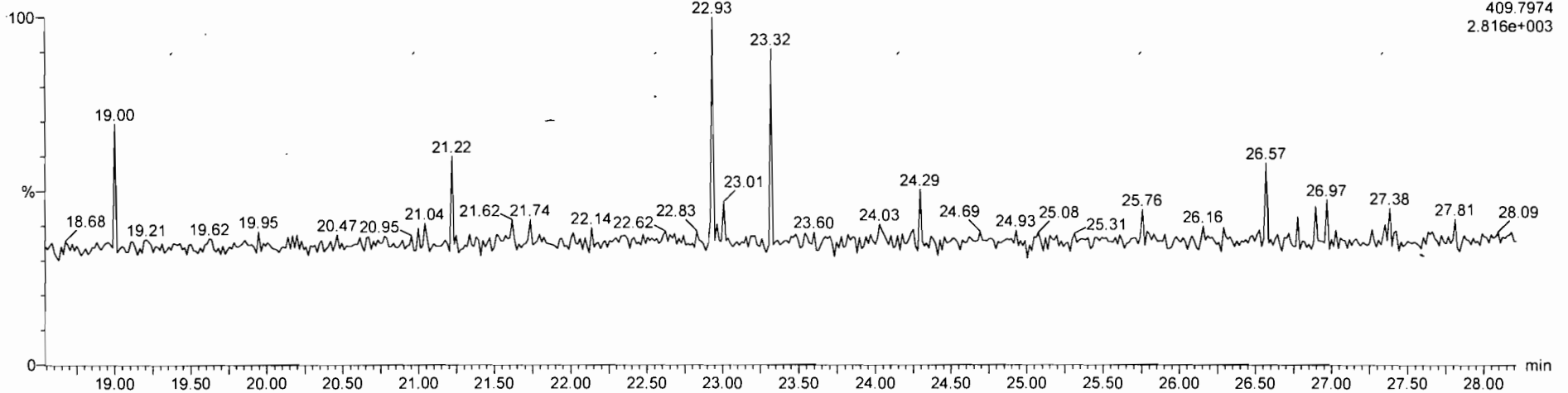


201109R2\_5



DPE6

201109R2\_5



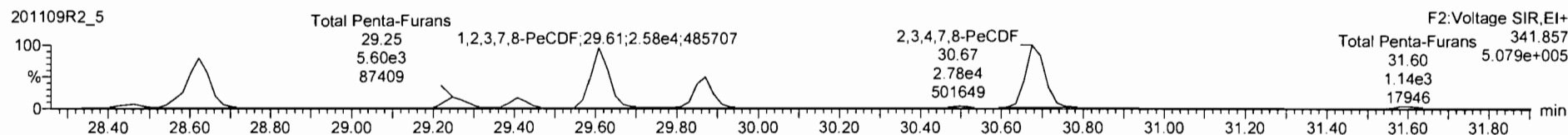
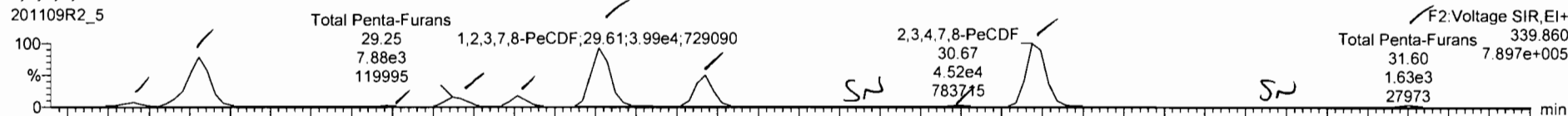
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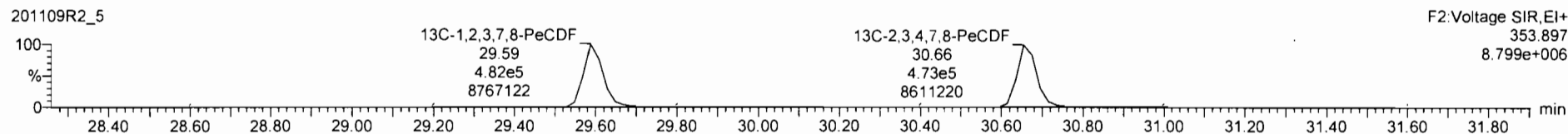
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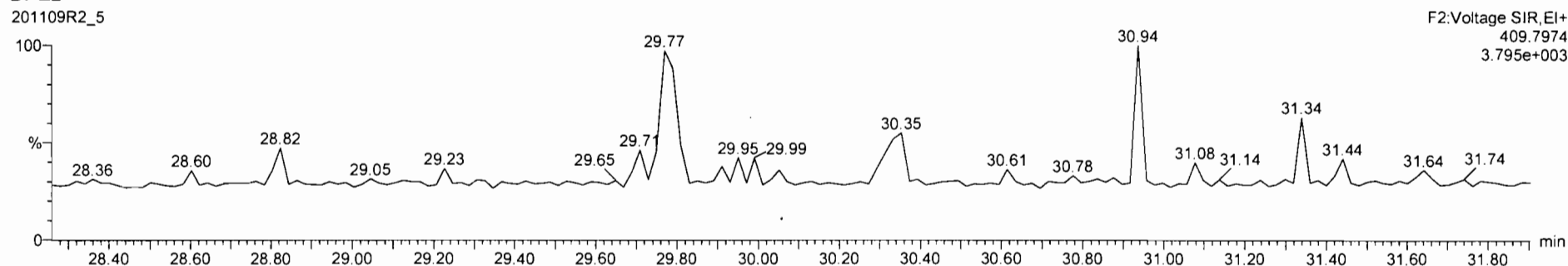
**1,2,3,7,8-PeCDF**

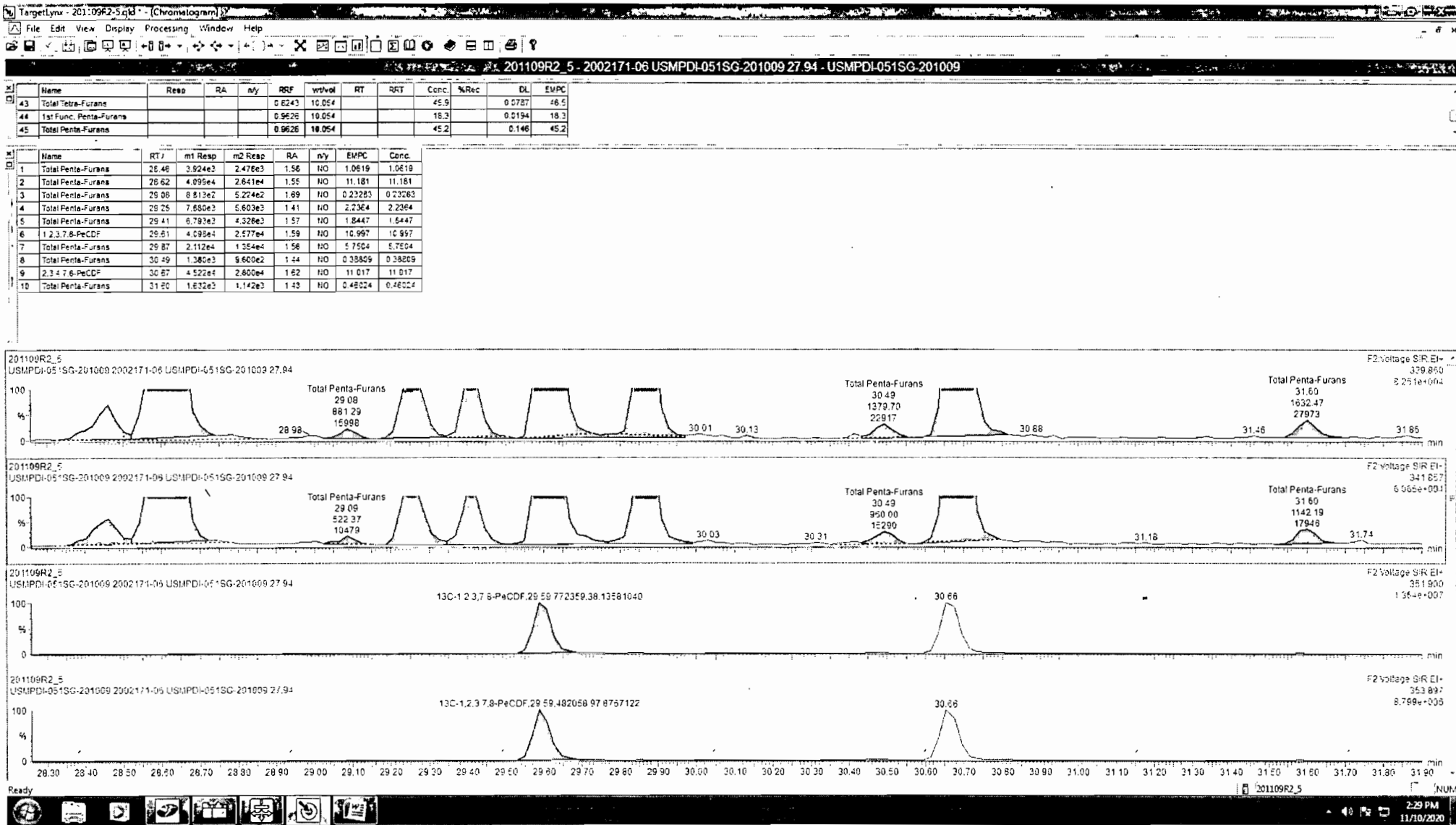


**13C-1,2,3,7,8-PeCDF**



**DPE2**



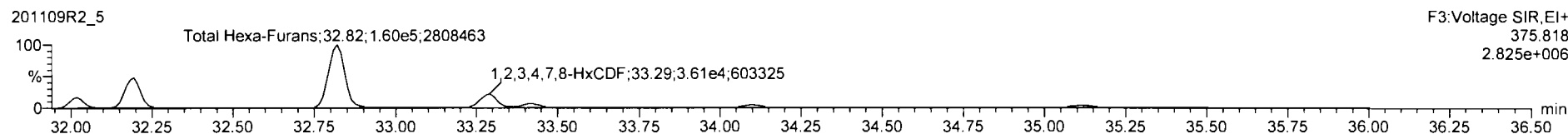
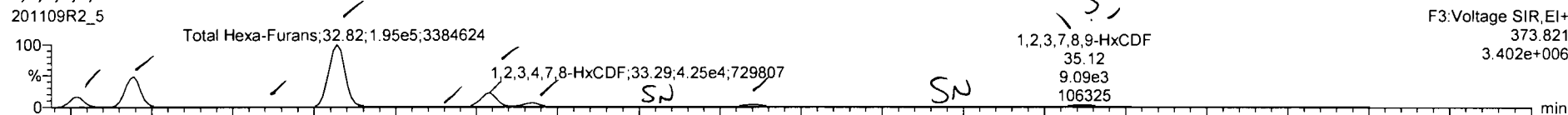


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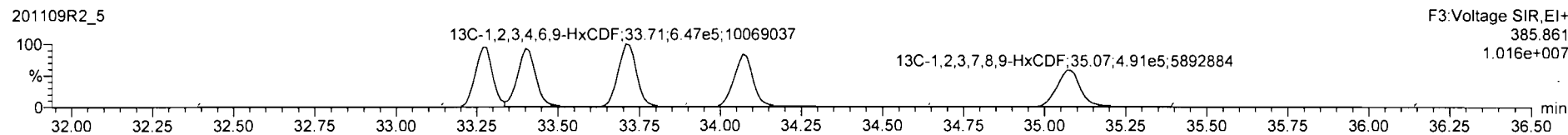
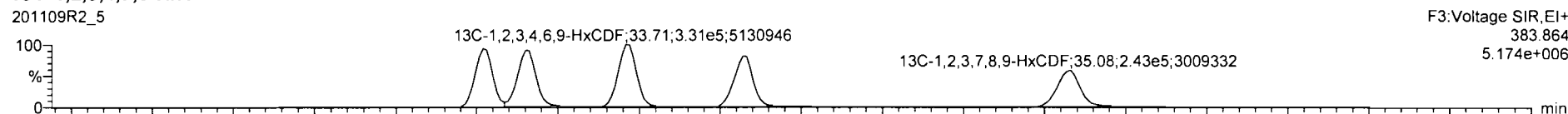
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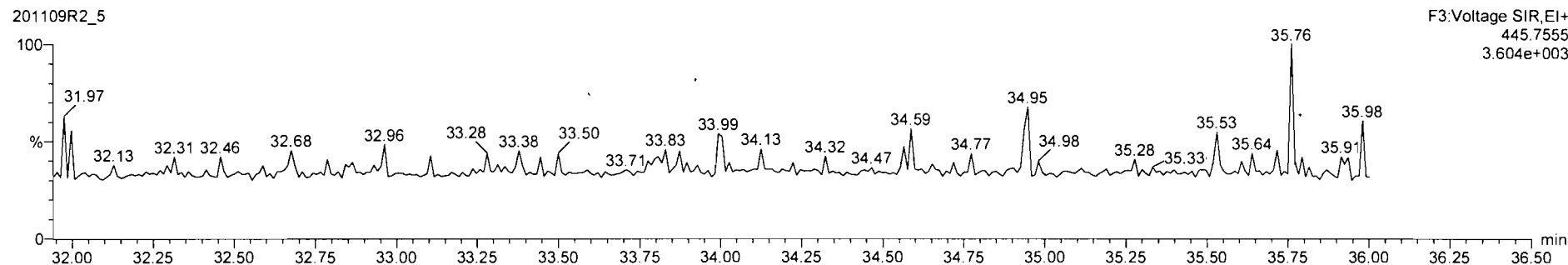
**1,2,3,4,7,8-HxCDF**



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

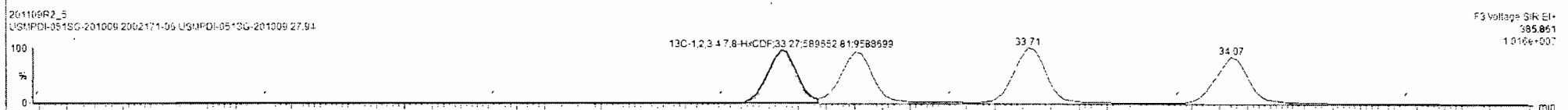
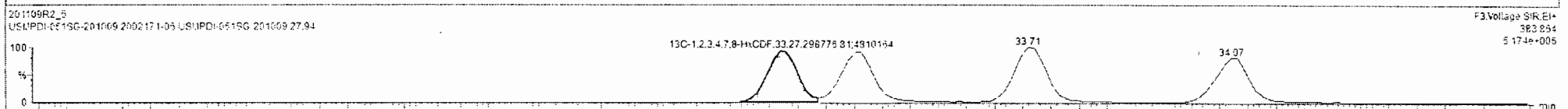
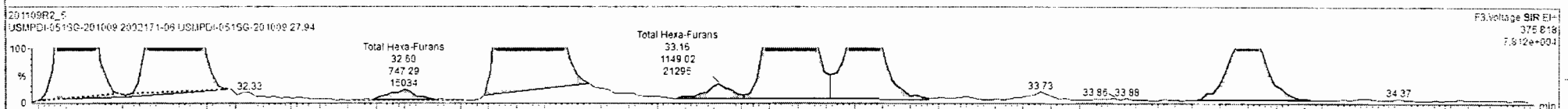
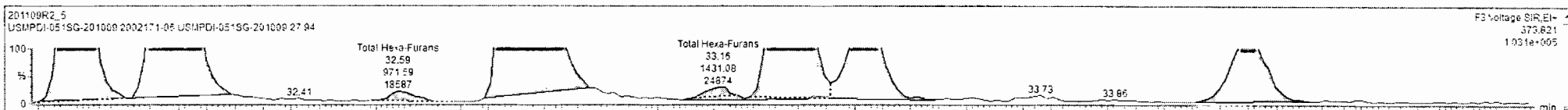


**DPE3**

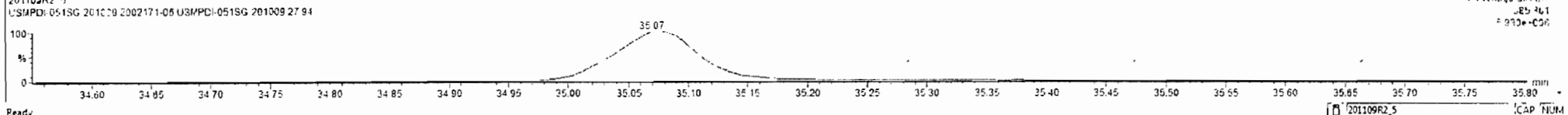
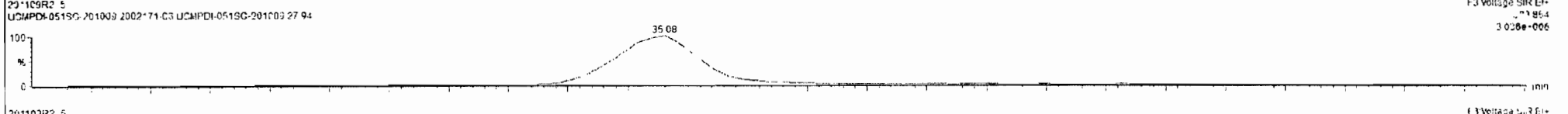
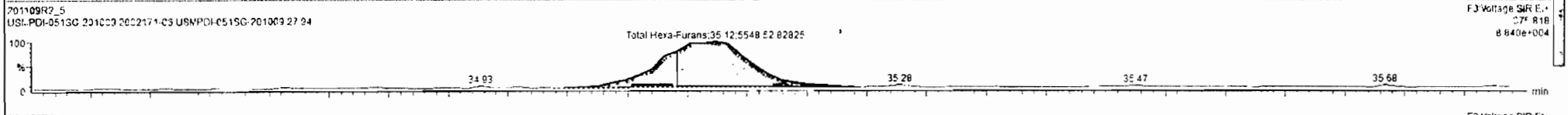
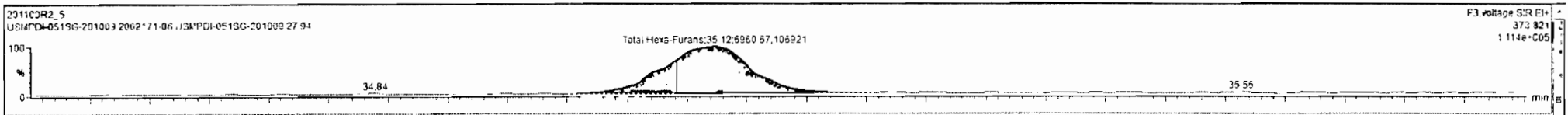


Name	Resp	RA	nly	REF	wtVal	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.054			45.9	0.0787	46.5	
44 1st Func. Penta-Furans				0.9626	10.054			18.3	0.0194	18.3	
45 Total Penta-Furans				0.9626	10.054			46.2	0.146	46.2	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.02	2.899e4	2.433e4	1.19	HO	12.705	12.705
2 Total Hexa-Furans	32.19	8.973e4	7.391e4	1.21	HO	38.995	38.995
3 Total Hexa-Furans	32.59	9.716e2	7.473e2	1.30	HO	0.40950	0.40950
4 Total Hexa-Furans	32.82	1.950e5	1.587e5	1.22	HO	84.540	84.540
5 Total Hexa-Furans	33.16	1.431e3	1.149e3	1.25	HO	0.61483	0.61483
6 1,2,3,4,7,8-HxCDF	33.29	4.307e4	3.611e4	1.19	HO	18.595	18.595
7 1,2,3,6,7,8-HxCDF	33.42	1.267e4	1.125e4	1.12	HO	5.2396	5.2396
8 2,3,4,6,7,8-HxCDF	34.09	9.082e3	7.701e3	1.18	HO	3.9960	3.9960
9 1,2,3,7,8,9-HxCDF	35.12	9.055e3	7.442e3	1.22	HO	4.7124	4.7124



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
38	12C-1,2,3,4,5-HxCDF	9.78e6	0.51	NO	1.0000	10.054	33.71	1.000	199	100	0.652
39	Total Tetra-Dioxins				0.9501	10.054			5.22	0.0666	5.60
40	Total Penta-Dioxins				0.8855	10.054			9.37	0.0890	11.4
41	Total Hexa-Dioxins				0.9145	10.054			1.75	0.473	1.75
42	Total Hepta-Dioxins				0.8697	10.054			1580	1.59	1580
43	Total Tetra-Furans				0.8243	10.054			45.9	0.0787	46.5
44	1st Furc. Penta-Furans				0.9626	10.054			16.3	0.0194	16.3
45	Total Penta-Furans				0.9626	10.054			45.2	0.146	45.2
46	Total Hexa-Furans				0.9907	10.054			169	0.232	169
47	Total Hepta-Furans				0.9996	10.054			215	0.431	218
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPE1										
54	DPE2										
55	DPE3										
56	DPE4										
57	DPE5										
58	DPE6										



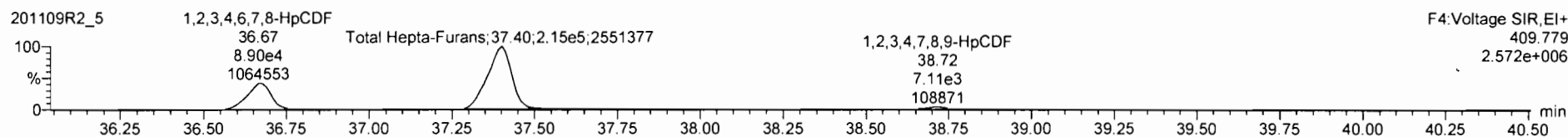
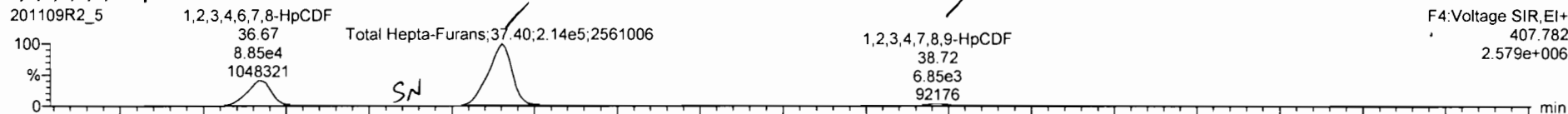
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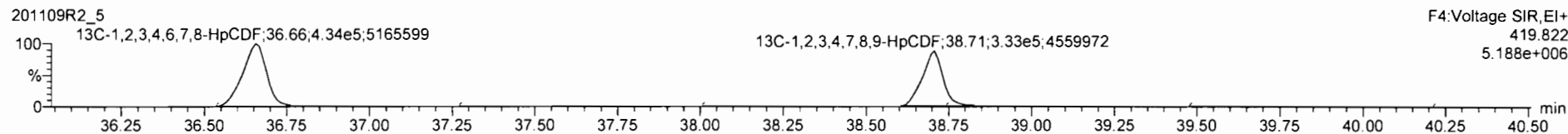
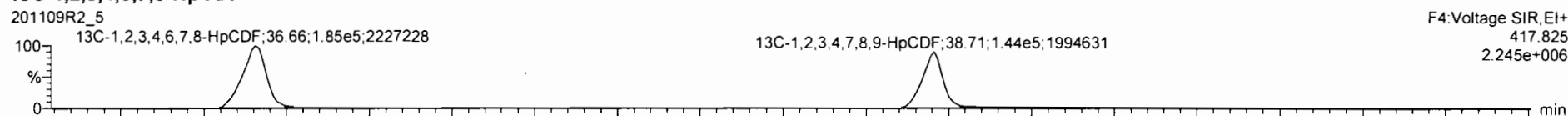
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Name: 201109R2\_5, Date: 09-Nov-2020, Time: 22:28:12, ID: 2002171-06 USMPDI-051SG-201009 27.94, Description: USMPDI-051SG-201009

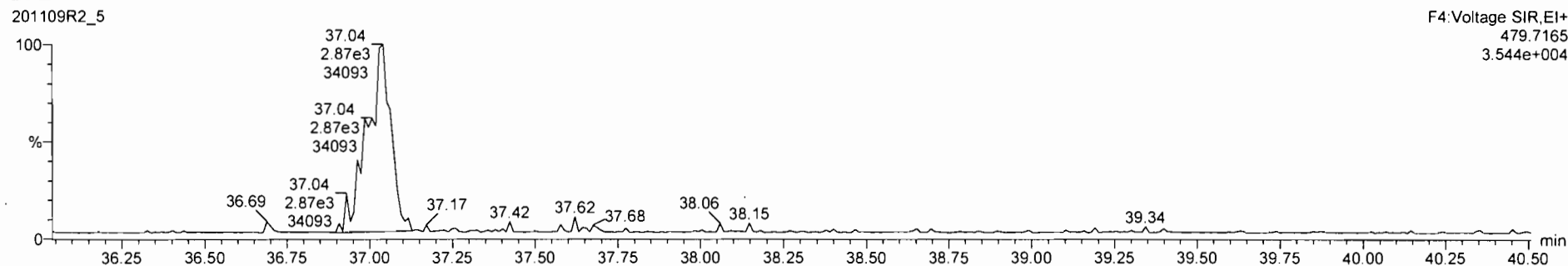
**1,2,3,4,6,7,8-HpCDF**



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

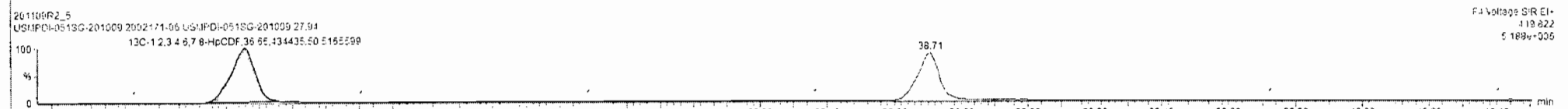
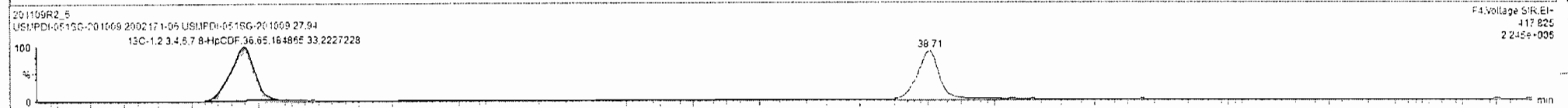
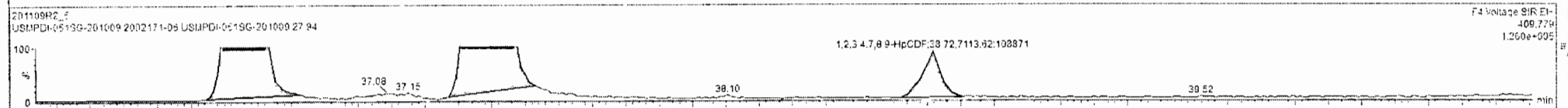
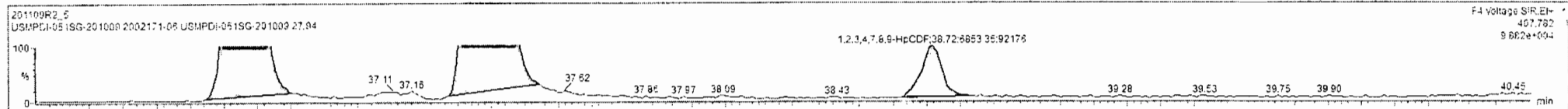


**DPE4**



Name	Resp	RA	n/y	RRF	wVvol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furens				0.8966	10.054			218	0.431	218	
48 PFK1											
45 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.67	8.854e4	8.900e4	0.99	NO	57.108	57.108
2 Total Hepta-Furens	37.40	2.144e5	2.148e5	1.00	NO	155.92	155.92
3 1,2,3,4,7,8,9-HpCDF	36.72	6.857e3	7.114e3	0.96	NO	5.1818	5.1818

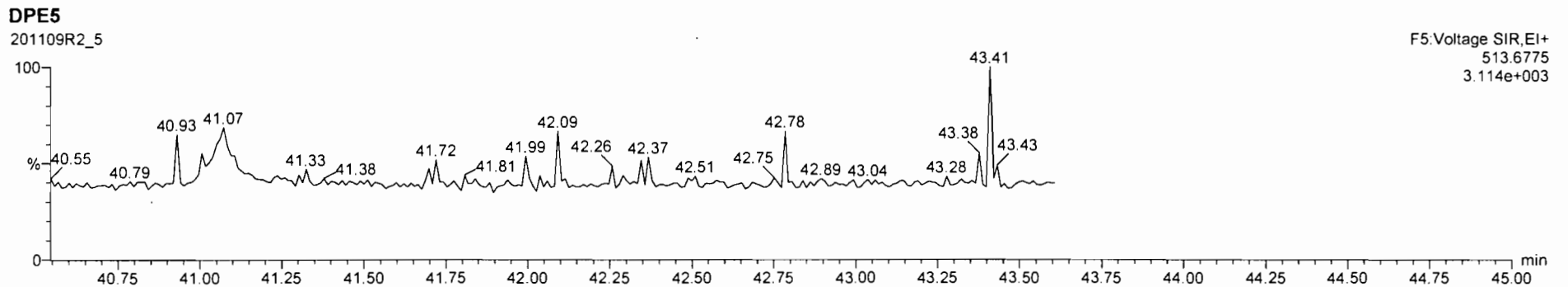
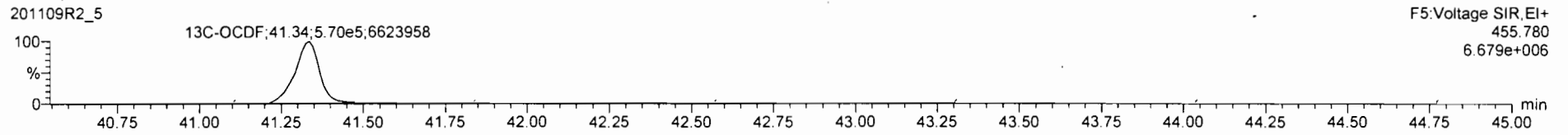
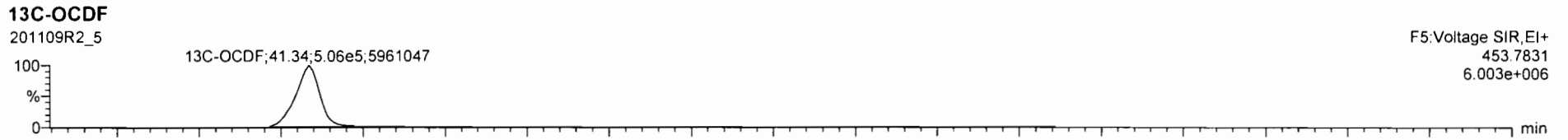
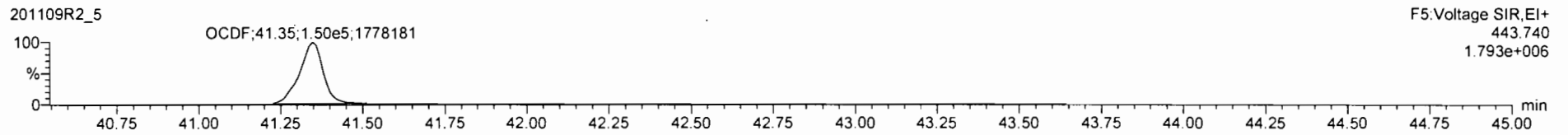
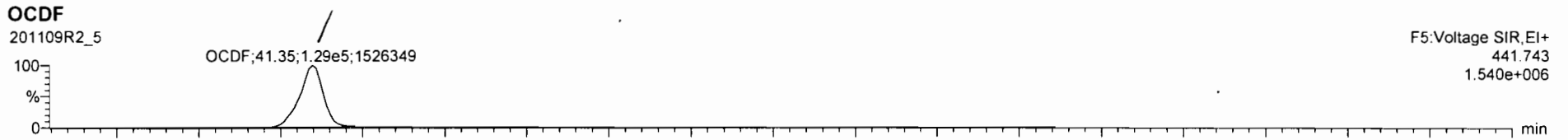




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Name: 201109R2\_5, Date: 09-Nov-2020, Time: 22:28:12, ID: 2002171-06 USMPDI-051SG-201009 27.94, Description: USMPDI-051SG-201009

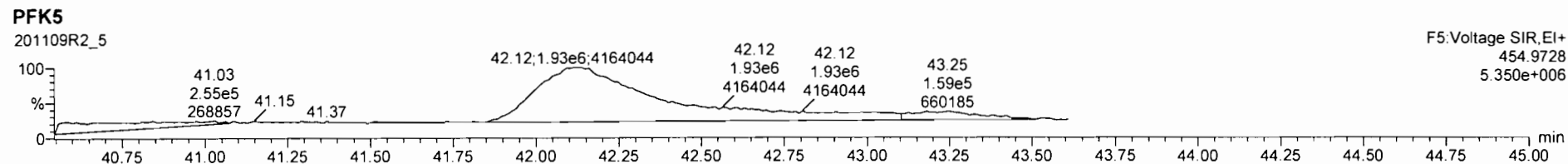
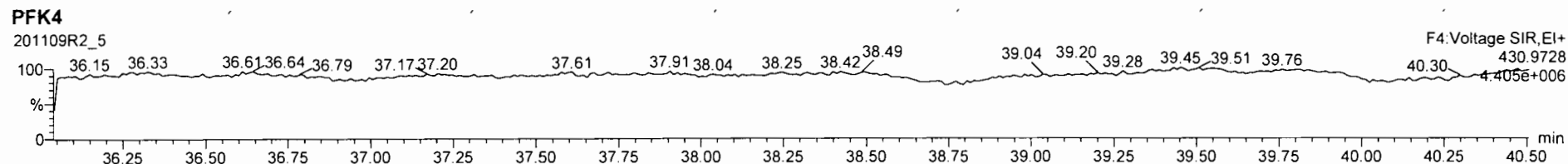
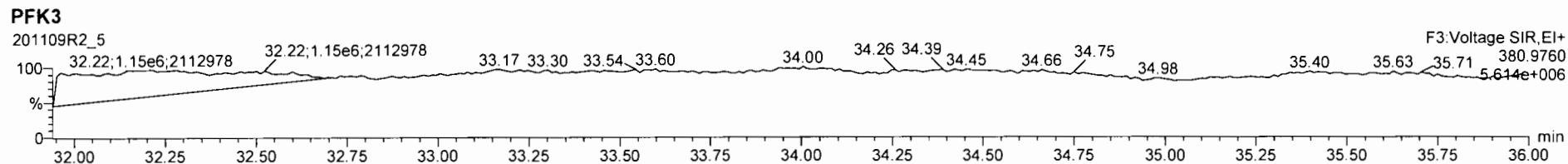
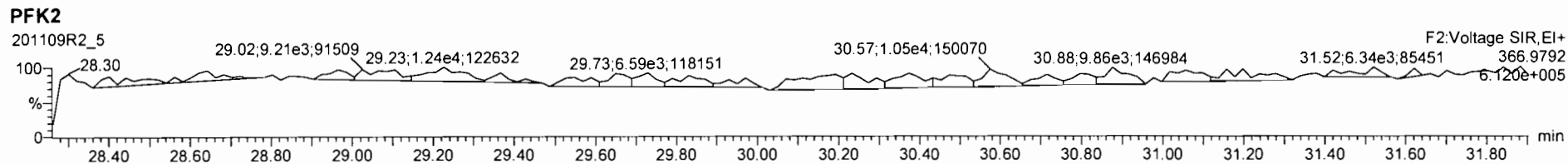
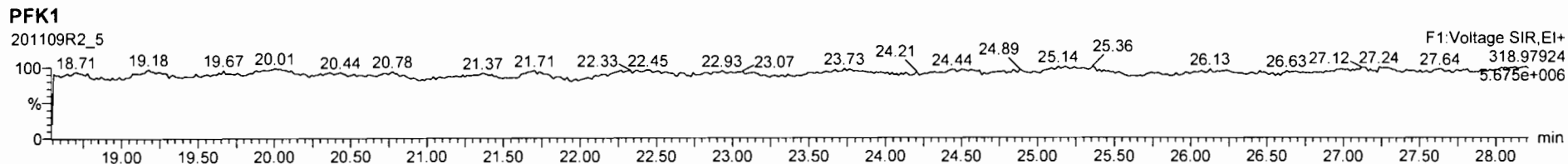


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Dataset: U:\VG12.PRO\Results\201109R2\201109R2-6.qld

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*GRB 11/11/2020*

*CT 11/12/2020*

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.69e3	0.35	YES	0.950	10.077	26.171	26.17	1.001	1.001	0.29009		0.920	0.175
2	1,2,3,7,8-PeCDD	1.71e3	0.68	NO	0.885	10.077	30.865	30.88	1.000	1.001	0.40864		0.0866	0.409
3	1,2,3,4,7,8-HxCDD	1.81e3	1.23	NO	1.02	10.077	34.218	34.20	1.001	1.000	0.48922		0.217	0.489
4	1,2,3,6,7,8-HxCDD	1.02e4	1.17	NO	0.915	10.077	34.322	34.32	1.000	1.000	2.7008		0.220	2.70
5	1,2,3,7,8,9-HxCDD	4.35e3	1.19	NO	0.934	10.077	34.596	34.60	1.000	1.000	1.1607		0.240	1.16
6	1,2,3,4,6,7,8-HpCDD	2.30e5	1.02	NO	0.870	10.077	38.082	38.10	1.000	1.001	85.755		0.878	85.8
7	OCDD	1.62e6	0.89	NO	0.872	10.077	41.062	41.07	1.000	1.000	865.19		0.758	865
8	2,3,7,8-TCDF	4.78e4	0.72	NO	0.824	10.077	25.470	25.48	1.000	1.001	7.1012		0.0641	7.10
9	1,2,3,7,8-PeCDF	4.11e4	1.53	NO	0.963	10.077	29.617	29.63	1.000	1.001	6.2540		0.0669	6.25
10	2,3,4,7,8-PeCDF	2.59e4	1.51	NO	1.07	10.077	30.675	30.69	1.000	1.001	3.7702		0.0603	3.77
11	1,1,2,3,4,7,8-HxCDF	3.70e4	1.20	NO	0.953	10.077	33.280	33.29	1.000	1.000	8.0292		0.105	8.03
12	1,2,3,6,7,8-HxCDF	1.13e4	1.21	NO	1.01	10.077	33.412	33.43	1.000	1.001	2.2623		0.102	2.26
13	2,3,4,6,7,8-HxCDF	4.53e3	1.19	NO	0.991	10.077	34.084	34.10	1.000	1.001	1.0250		0.125	1.02
14	1,2,3,7,8,9-HxCDF	2.51e3	1.15	NO	0.951	10.077	35.080	35.11	1.000	1.001	0.65983		0.170	0.660
15	1,2,3,4,6,7,8-HpCDF	3.58e4	0.98	NO	0.999	10.077	36.670	36.69	1.000	1.001	10.950		0.192	11.0
16	1,2,3,4,7,8,9-HpCDF	4.55e3	0.94	NO	1.12	10.077	38.718	38.73	1.000	1.000	1.6544		0.200	1.65
17	OCDF	5.79e4	0.83	NO	0.868	10.077	41.366	41.36	1.000	1.000	28.230		0.323	28.2
18	13C-2,3,7,8-TCDD	1.22e6	0.80	NO	1.11	10.077	26.132	26.14	1.029	1.030	198.37	99.9	0.131	
19	13C-1,2,3,7,8-PeCDD	9.36e5	0.64	NO	0.859	10.077	30.745	30.86	1.211	1.215	196.50	99.0	0.254	
20	13C-1,2,3,4,7,8-HxCDD	7.20e5	1.27	NO	0.700	10.077	34.167	34.19	1.013	1.014	188.01	94.7	0.430	
21	13C-1,2,3,6,7,8-HxCDD	8.23e5	1.26	NO	0.833	10.077	34.296	34.31	1.017	1.018	180.47	90.9	0.362	
22	13C-1,2,3,7,8,9-HxCDD	7.95e5	1.28	NO	0.762	10.077	34.565	34.59	1.025	1.026	190.63	96.0	0.395	
23	13C-1,2,3,4,6,7,8-HpCDD	6.12e5	1.04	NO	0.650	10.077	38.001	38.08	1.127	1.129	172.02	86.7	0.671	
24	13C-OCDD	8.53e5	0.87	NO	0.539	10.077	40.931	41.06	1.214	1.218	288.80	72.8	0.414	
25	13C-2,3,7,8-TCDF	1.62e6	0.78	NO	0.981	10.077	25.467	25.46	1.003	1.003	192.55	97.0	0.197	
26	13C-1,2,3,7,8-PeCDF	1.35e6	1.59	NO	0.792	10.077	29.506	29.61	1.162	1.166	199.33	100	0.390	
27	13C-2,3,4,7,8-PeCDF	1.28e6	1.61	NO	0.778	10.077	30.557	30.67	1.204	1.208	191.14	96.3	0.397	
28	13C-1,2,3,4,7,8-HxCDF	9.59e5	0.51	NO	0.954	10.077	33.271	33.28	0.987	0.987	183.63	92.5	0.596	
29	13C-1,2,3,6,7,8-HxCDF	9.80e5	0.52	NO	1.01	10.077	33.409	33.41	0.991	0.991	177.89	89.6	0.565	
30	13C-2,3,4,6,7,8-HxCDF	8.86e5	0.51	NO	0.921	10.077	34.066	34.08	1.010	1.011	175.56	88.5	0.617	
31	13C-1,2,3,7,8,9-HxCDF	7.94e5	0.50	NO	0.803	10.077	35.064	35.08	1.040	1.040	180.41	90.9	0.707	

Dataset: U:\VG12.PRO\Results\201109R2\201109R2-6.qld

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.49e5	0.42	NO	0.735	10.077	36.629	36.67	1.086	1.087	161.23	81.2	0.556	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.86e5	0.42	NO	0.568	10.077	38.612	38.72	1.145	1.148	156.19	78.7	0.720	
34	34 13C-OCDF	9.38e5	0.87	NO	0.629	10.077	41.221	41.36	1.222	1.227	272.18	68.6	0.460	
35	35 37Cl-2,3,7,8-TCDD	5.30e5			1.09	10.077	26.150	26.17	1.030	1.031	87.801	111	0.0945	
36	36 13C-1,2,3,4-TCDD	1.10e6	0.81	NO	1.00	10.077	25.430	25.39	1.000	1.000	198.47	100	0.146	
37	37 13C-1,2,3,4-TCDF	1.70e6	0.79	NO	1.00	10.077	24.130	23.90	1.000	1.000	198.47	100	0.193	
38	38 13C-1,2,3,4,6,9-HxCDF	1.09e6	0.51	NO	1.00	10.077	33.840	33.72	1.000	1.000	198.47	100	0.568	
39	39 Total Tetra-Dioxins				0.950	10.077	24.620		0.000		3.0072		0.0420	3.18
40	40 Total Penta-Dioxins				0.885	10.077	29.960		0.000		3.4951		0.0866	4.27
41	41 Total Hexa-Dioxins				0.915	10.077	33.635		0.000		29.559		0.235	29.6
42	42 Total Hepta-Dioxins				0.870	10.077	37.640		0.000		245.33		0.878	245
43	43 Total Tetra-Furans				0.824	10.077	23.610		0.000		22.828		0.0641	24.8
44	44 1st Func. Penta-Furans				0.963	10.077	27.230		0.000		4.0455		0.0197	4.05
45	45 Total Penta-Furans				0.963	10.077	29.275		0.000		19.282		0.0669	19.3
46	46 Total Hexa-Furans				0.991	10.077	33.555		0.000		27.916		0.121	27.9
47	47 Total Hepta-Furans				0.999	10.077	37.835		0.000		34.080		0.206	34.1

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201109R2\_6, Date: 09-Nov-2020, Time: 23:13:06, ID: 2002171-07 USMPDI-054SG-201009 26.2, Description: USMPDI-054SG-201009

**Tetra-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	22.37	2.837e4	3.097e4	2.482e3	3.038e3	0.82	NO	5.519e3	0.94488	0.94488	0.0420
2	Total Tetra-Dioxins	22.70	1.058e4	1.102e4	7.934e2	1.065e3	0.74	NO	1.859e3	0.31819	0.31819	0.0420
3	Total Tetra-Dioxins	23.26	4.740e3	3.786e3	2.881e2	3.465e2	0.83	NO	6.346e2	0.10864	0.10864	0.0420
4	Total Tetra-Dioxins	24.09	6.403e3	5.997e3	4.397e2	5.123e2	0.86	NO	9.521e2	0.16298	0.16298	0.0420
5	Total Tetra-Dioxins	24.29	3.804e3	6.487e3	3.844e2	5.266e2	0.73	NO	9.109e2	0.15594	0.15594	0.0420
6	Total Tetra-Dioxins	24.53	6.655e3	7.008e3	4.534e2	5.316e2	0.85	NO	9.850e2	0.16862	0.16862	0.0420
7	Total Tetra-Dioxins	24.75	1.906e3	2.458e3	1.273e2	1.688e2	0.75	NO	2.961e2	0.050695	0.050695	0.0420
8	Total Tetra-Dioxins	25.02	3.555e3	1.953e3	1.259e2	1.540e2	0.82	NO	2.799e2	0.047919	0.047919	0.0420
9	Total Tetra-Dioxins	25.12	2.913e3	5.132e3	2.098e2	2.765e2	0.76	NO	4.863e2	0.083250	0.083250	0.0420
10	Total Tetra-Dioxins	25.89	3.703e4	4.189e4	2.283e3	2.874e3	0.79	NO	5.157e3	0.88277	0.88277	0.0420
11	2,3,7,8-TCDD	26.17	6.204e3	2.133e4	4.437e2	1.251e3	0.35	YES	1.695e3	0.00000	0.17460	0.0420
12	Total Tetra-Dioxins	26.48	3.438e3	4.150e3	2.215e2	2.650e2	0.84	NO	4.865e2	0.083284	0.083284	0.0420

**Penta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	28.62	2.532e4	3.974e4	2.198e3	3.045e3	0.72	NO	5.242e3	1.2555	1.2555	0.0866
2	Total Penta-Dioxins	29.08	8.968e3	1.700e4	5.112e2	9.224e2	0.55	NO	1.434e3	0.34334	0.34334	0.0866
3	Total Penta-Dioxins	29.61	1.721e4	2.293e4	1.015e3	1.420e3	0.71	NO	2.434e3	0.58303	0.58303	0.0866
4	Total Penta-Dioxins	29.81	1.645e4	2.424e4	1.342e3	1.877e3	0.72	NO	0.000e0	0.00000	0.77099	0.0866
5	Total Penta-Dioxins	30.09	1.615e4	2.159e4	1.022e3	1.526e3	0.67	NO	2.549e3	0.61047	0.61047	0.0866
6	1,2,3,7,8-PeCDD	30.88	1.299e4	1.749e4	6.910e2	1.015e3	0.68	NO	1.706e3	0.40864	0.40864	0.0866
7	Total Penta-Dioxins	30.96	4.295e3	7.529e3	2.279e2	3.685e2	0.62	NO	5.964e2	0.14283	0.14283	0.0866
8	Total Penta-Dioxins	31.22	4.256e3	7.722e3	2.478e2	3.837e2	0.65	NO	6.315e2	0.15125	0.15125	0.0866

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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	32.57	4.253e5	3.482e5	2.324e4	1.825e4	1.27	NO	4.149e4	11.549	11.549	0.235
2 Total Hexa-Dioxins	33.16	4.860e4	4.369e4	2.960e3	2.539e3	1.17	NO	5.499e3	1.5308	1.5308	0.235
3 Total Hexa-Dioxins	33.46	2.685e5	2.120e5	2.025e4	1.648e4	1.23	NO	3.673e4	10.225	10.225	0.235
4 Total Hexa-Dioxins	33.54	4.858e4	3.316e4	2.794e3	2.092e3	1.34	NO	4.886e3	1.3601	1.3601	0.235
5 1,2,3,4,7,8-HxCDD	34.20	1.667e4	1.597e4	9.953e2	8.117e2	1.23	NO	1.807e3	0.48922	0.48922	0.217
6 1,2,3,6,7,8-HxCDD	34.32	8.385e4	6.763e4	5.525e3	4.716e3	1.17	NO	1.024e4	2.7008	2.7008	0.220
7 Total Hexa-Dioxins	34.48	1.651e4	1.263e4	1.064e3	8.866e2	1.20	NO	1.951e3	0.54313	0.54313	0.235
8 1,2,3,7,8,9-HxCDD	34.60	3.016e4	2.738e4	2.364e3	1.982e3	1.19	NO	4.346e3	1.1607	1.1607	0.240

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hepta-Dioxins	37.07	2.436e6	2.388e6	2.162e5	2.117e5	1.02	NO	4.279e5	159.58	159.58	0.878
2 1,2,3,4,6,7,8-HpCDD	38.10	1.584e6	1.556e6	1.162e5	1.137e5	1.02	NO	2.300e5	85.755	85.755	0.878

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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	20.17	6.392e3	9.291e3	5.512e2	7.696e2	0.72	NO	1.321e3	0.19606	0.19606	0.0641
2 Total Tetra-Furans	20.72	6.383e3	1.043e4	5.961e2	9.055e2	0.66	NO	1.502e3	0.22290	0.22290	0.0641
3 Total Tetra-Furans	21.49	4.707e4	6.407e4	4.182e3	5.816e3	0.72	NO	9.998e3	1.4842	1.4842	0.0641
4 Total Tetra-Furans	21.87	6.776e3	7.680e3	4.109e2	5.207e2	0.79	NO	9.315e2	0.13828	0.13828	0.0641
5 Total Tetra-Furans	21.97	1.067e4	1.397e4	9.939e2	1.247e3	0.80	NO	2.241e3	0.33264	0.33264	0.0641
6 Total Tetra-Furans	22.06	7.548e3	9.880e3	6.326e2	7.883e2	0.80	NO	1.421e3	0.21093	0.21093	0.0641
7 Total Tetra-Furans	22.40	6.220e4	8.744e4	6.528e3	8.437e3	0.77	NO	1.497e4	2.2215	2.2215	0.0641
8 Total Tetra-Furans	22.87	2.941e4	4.797e4	2.503e3	3.622e3	0.69	NO	6.125e3	0.90916	0.90916	0.0641
9 Total Tetra-Furans	22.96	6.512e3	7.938e3	5.612e2	6.881e2	0.82	NO	1.249e3	0.18545	0.18545	0.0641
10 Total Tetra-Furans	23.24	1.580e4	2.487e4	1.391e3	2.108e3	0.66	NO	3.499e3	0.51941	0.51941	0.0641
11 Total Tetra-Furans	23.63	4.132e3	5.869e3	3.492e2	4.238e2	0.82	NO	7.731e2	0.11476	0.11476	0.0641
12 Total Tetra-Furans	23.75	1.071e4	8.754e3	4.904e2	6.517e2	0.75	NO	1.142e3	0.16954	0.16954	0.0641
13 Total Tetra-Furans	23.95	3.131e4	4.262e4	1.576e3	2.048e3	0.77	NO	0.000e0	0.00000	0.53791	0.0641
14 Total Tetra-Furans	24.01	4.957e4	5.785e4	4.240e3	5.188e3	0.82	NO	0.000e0	0.00000	1.3996	0.0641
15 Total Tetra-Furans	24.47	2.421e5	3.314e5	1.780e4	2.410e4	0.74	NO	4.190e4	6.2196	6.2196	0.0641
16 Total Tetra-Furans	24.80	1.121e4	1.387e4	7.298e2	1.017e3	0.72	NO	1.747e3	0.25929	0.25929	0.0641
17 Total Tetra-Furans	25.20	7.369e3	9.268e3	4.277e2	6.374e2	0.67	NO	1.065e3	0.15811	0.15811	0.0641
18 Total Tetra-Furans	25.34	5.070e4	6.455e4	3.105e3	3.981e3	0.78	NO	7.086e3	1.0519	1.0519	0.0641
19 2,3,7,8-TCDF	25.48	2.908e5	3.982e5	2.000e4	2.783e4	0.72	NO	4.784e4	7.1012	7.1012	0.0641
20 Total Tetra-Furans	25.79	2.187e4	3.384e4	1.595e3	2.211e3	0.72	NO	3.806e3	0.56504	0.56504	0.0641
21 Total Tetra-Furans	26.04	5.257e3	5.357e3	3.092e2	4.054e2	0.76	NO	7.147e2	0.10609	0.10609	0.0641
22 Total Tetra-Furans	27.00	9.155e3	7.811e3	4.058e2	5.262e2	0.77	NO	9.320e2	0.13835	0.13835	0.0641
23 Total Tetra-Furans	27.19	5.379e3	3.898e3	3.049e2	2.486e2	1.23	YES	0.000e0	0.00000	0.065324	0.0641
24 Total Tetra-Furans	27.37	2.407e4	3.316e4	1.426e3	2.104e3	0.68	NO	3.530e3	0.52402	0.52402	0.0641

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	26.99	2.542e5	1.677e5	1.588e4	9.927e3	1.60	NO	2.581e4	4.0455	4.0455	0.0197

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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	28.46	2.307e4	1.286e4	1.535e3	1.009e3	1.52	NO	2.544e3	0.39878	0.39878	0.0669
2 Total Penta-Furans	28.62	2.553e5	1.521e5	1.844e4	1.125e4	1.64	NO	2.969e4	4.6538	4.6538	0.0669
3 Total Penta-Furans	29.09	6.686e3	4.079e3	4.108e2	3.108e2	1.32	NO	7.216e2	0.11312	0.11312	0.0669
4 Total Penta-Furans	29.27	5.246e4	3.391e4	3.457e3	2.159e3	1.60	NO	5.616e3	0.88034	0.88034	0.0669
5 Total Penta-Furans	29.41	4.951e4	3.536e4	2.933e3	1.792e3	1.64	NO	4.725e3	0.74066	0.74066	0.0669
6 1,2,3,7,8-PeCDF	29.63	4.284e5	2.777e5	2.482e4	1.627e4	1.53	NO	4.109e4	6.2540	6.2540	0.0669
7 Total Penta-Furans	29.87	1.626e5	1.048e5	8.145e3	5.458e3	1.49	NO	1.360e4	2.1324	2.1324	0.0669
8 Total Penta-Furans	30.51	1.060e4	7.266e3	5.040e2	3.099e2	1.63	NO	8.139e2	0.12759	0.12759	0.0669
9 2,3,4,7,8-PeCDF	30.69	2.925e5	1.852e5	1.556e4	1.033e4	1.51	NO	2.590e4	3.7702	3.7702	0.0603
10 Total Penta-Furans	31.62	1.199e4	8.842e3	7.690e2	5.805e2	1.32	NO	1.350e3	0.21155	0.21155	0.0669

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Furans	32.03	8.145e4	6.186e4	4.109e3	3.462e3	1.19	NO	7.570e3	1.6766	1.6766	0.121
2 Total Hexa-Furans	32.21	2.642e5	2.039e5	1.437e4	1.112e4	1.29	NO	2.550e4	5.6467	5.6467	0.121
3 Total Hexa-Furans	32.61	6.533e3	3.684e3	3.141e2	2.638e2	1.19	NO	5.779e2	0.12799	0.12799	0.121
4 Total Hexa-Furans	32.83	3.434e5	2.862e5	1.931e4	1.607e4	1.20	NO	3.538e4	7.8360	7.8360	0.121
5 Total Hexa-Furans	33.17	1.113e4	7.204e3	4.778e2	4.023e2	1.19	NO	8.801e2	0.19491	0.19491	0.121
6 1,2,3,4,7,8-HxCDF	33.29	3.460e5	2.820e5	2.018e4	1.682e4	1.20	NO	3.699e4	8.0292	8.0292	0.105
7 1,2,3,6,7,8-HxCDF	33.43	9.402e4	8.504e4	6.176e3	5.084e3	1.21	NO	1.126e4	2.2623	2.2623	0.102
8 2,3,4,6,7,8-HxCDF	34.10	3.428e4	3.208e4	2.463e3	2.068e3	1.19	NO	4.531e3	1.0250	1.0250	0.125
9 1,2,3,7,8,9-HxCDF	35.11	2.987e4	2.561e4	1.340e3	1.168e3	1.15	NO	2.508e3	0.65983	0.65983	0.170
10 Total Hexa-Furans	35.12	2.847e4	2.179e4	1.185e3	8.791e2	1.35	NO	2.064e3	0.45719	0.45719	0.121

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	36.69	2.042e5	2.118e5	1.774e4	1.804e4	0.98	NO	3.578e4	10.950	10.950	0.192
2 Total Hepta-Furans	37.41	3.759e5	3.705e5	3.050e4	3.082e4	0.99	NO	6.131e4	21.475	21.475	0.206
3 1,2,3,4,7,8,9-HpCDF	38.73	3.393e4	3.095e4	2.203e3	2.346e3	0.94	NO	4.549e3	1.6544	1.6544	0.200



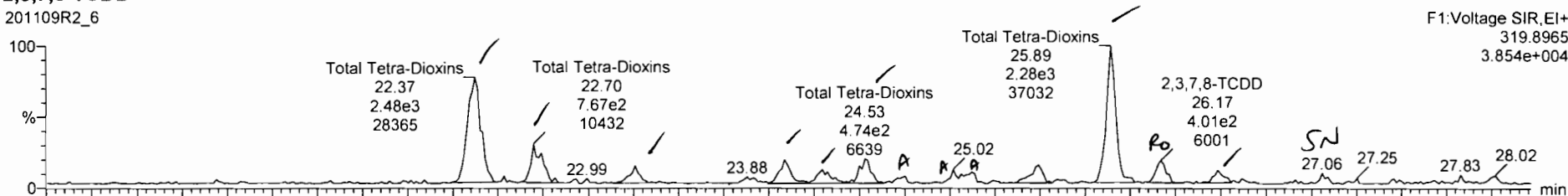
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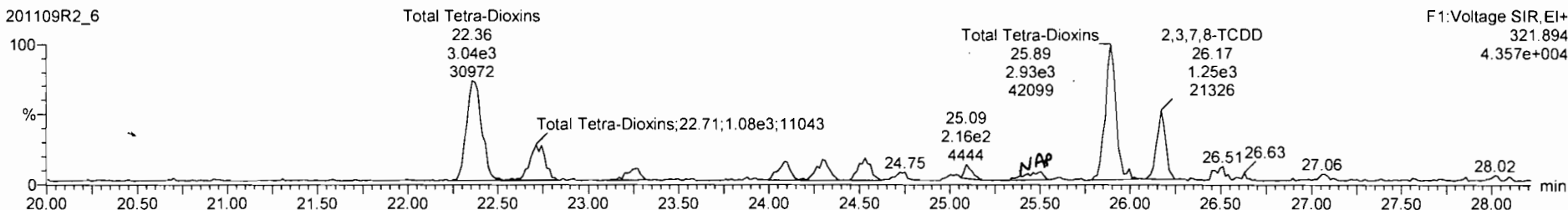
Name: 201109R2\_6, Date: 09-Nov-2020, Time: 23:13:06, ID: 2002171-07 USMPDI-054SG-201009 26.2, Description: USMPDI-054SG-201009

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

201109R2\_6

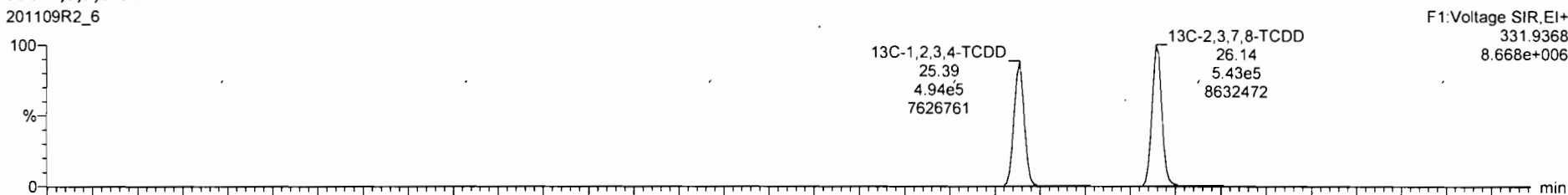


201109R2\_6

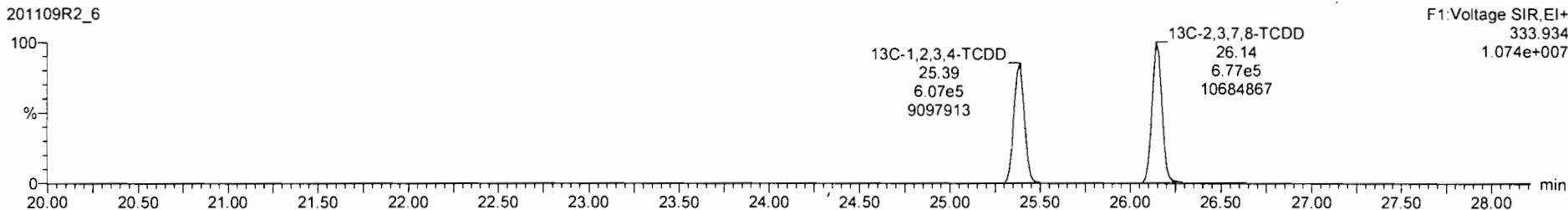


**13C-2,3,7,8-TCDD**

201109R2\_6



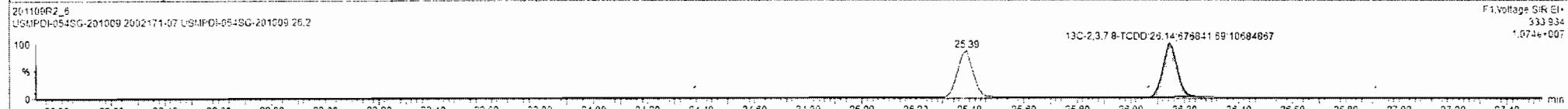
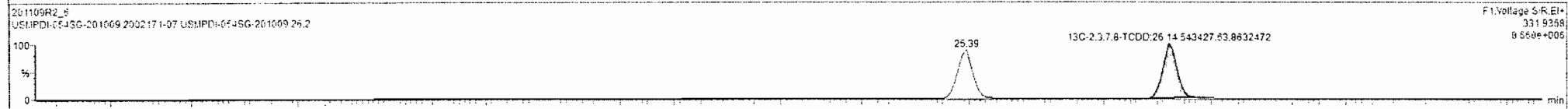
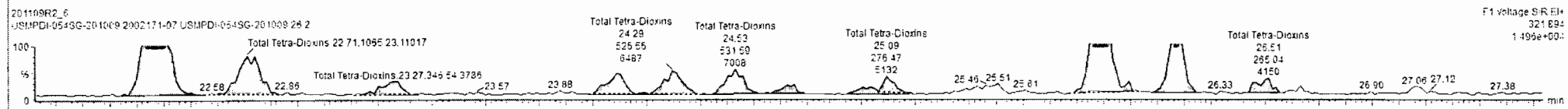
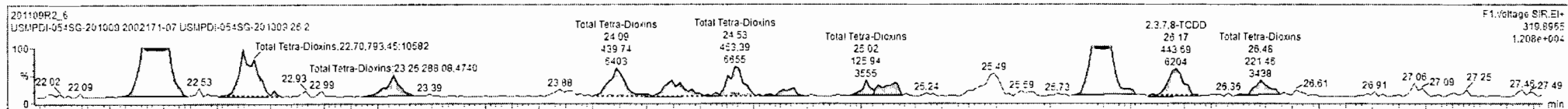
201109R2\_6



201109R2\_6 - 2002171-07 USMPDI-054SG-201009 26.2 - USMPDI-054SG-201009

Name	Resp	RA	rvy	RRF	wVvol	RT	RRT	Conc.	%Rec	DL	EMPC
35 Total Tetra-Dioxins				0.6501	10.077			3.01		0.0420	3.18
43 Total Penta-Dioxins				0.6855	10.077			1.99		0.0956	4.18
141 Total Hexa-Dioxins				0.9145	10.077			26.3		0.235	29.6

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Tetra-Dioxins	22.37	2.432e3	3.036e3	0.82	NO	0.94488	0.54468
2 Total Tetra-Dioxins	22.70	7.934e2	1.065e3	0.74	NO	0.31819	0.31819
3 Total Tetra-Dioxins	23.26	2.851e2	3.465e2	0.83	NO	0.10864	0.10864
4 Total Tetra-Dioxins	24.09	4.397e2	5.123e2	0.86	NO	0.16298	0.16298
5 Total Tetra-Dioxins	24.29	3.844e2	5.255e2	0.73	NO	0.15594	0.15594
6 Total Tetra-Dioxins	24.53	4.534e2	5.316e2	0.85	NO	0.16862	0.16862
7 Total Tetra-Dioxins	24.75	1.273e2	1.688e2	0.75	NO	0.050695	0.050695
8 Total Tetra-Dioxins	25.02	1.259e2	1.549e2	0.82	NO	0.047919	0.047919
9 Total Tetra-Dioxins	25.12	2.098e2	2.755e2	0.76	NO	0.083256	0.083256
10 Total Tetra-Dioxins	25.29	2.287e2	2.874e2	0.79	NO	0.08277	0.08277
11 2,3,7,8-TCDD	26.17	4.437e2	1.251e3	0.35	YES	0.17460	0.00000
12 Total Tetra-Dioxins	26.48	2.215e2	2.650e2	0.84	NO	0.083284	0.083284



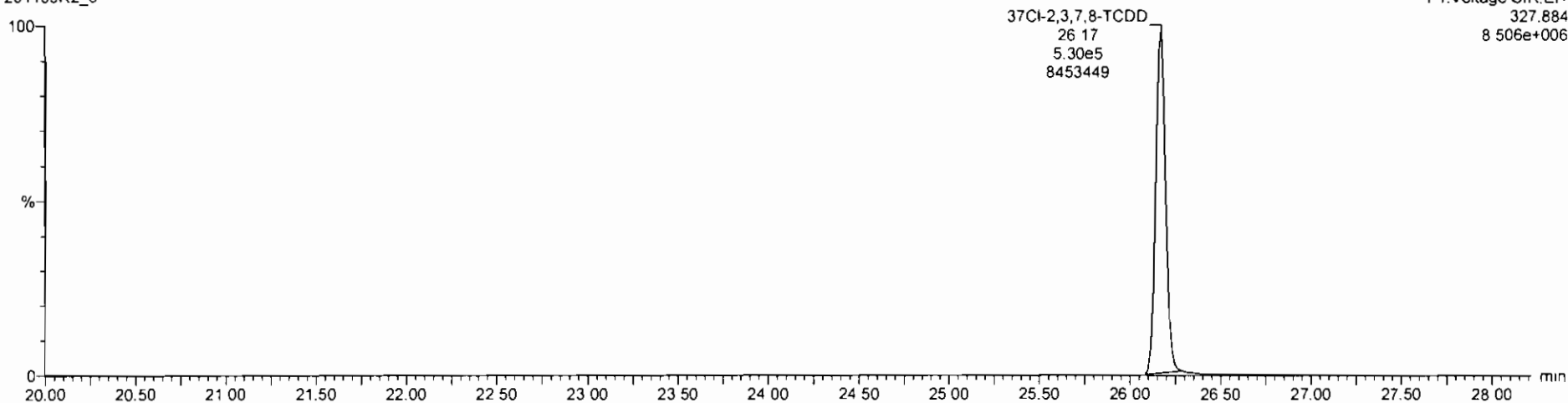
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Printed: Tuesday, November 10, 2020 7:25:24 AM Pacific Standard Time

Name: 201109R2\_6, Date: 09-Nov-2020, Time: 23:13:06, ID: 2002171-07 USMPDI-054SG-201009 26.2, Description: USMPDI-054SG-201009

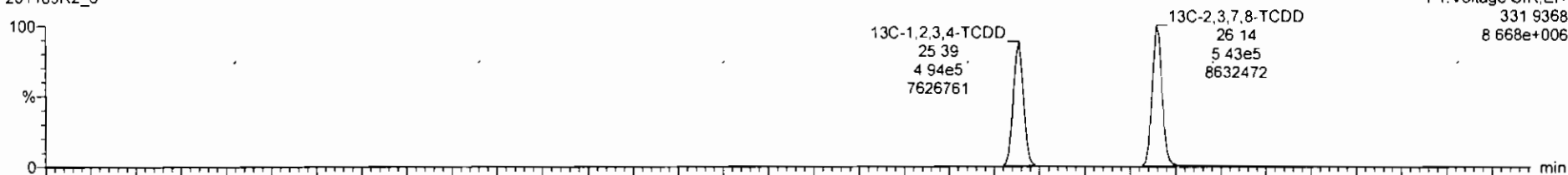
**37Cl-2,3,7,8-TCDD**

201109R2\_6

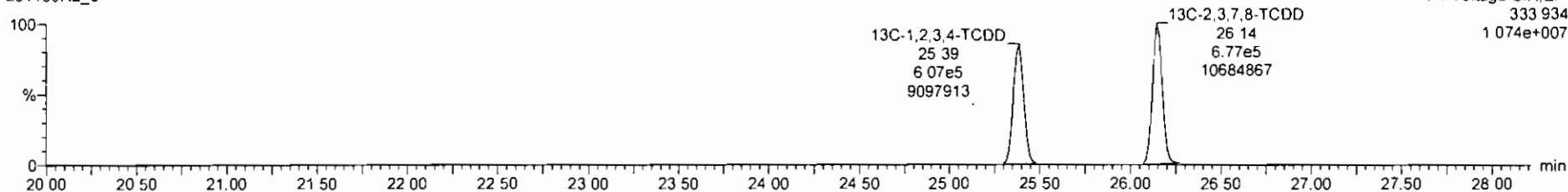


**13C-1,2,3,4-TCDD**

201109R2\_6



201109R2\_6



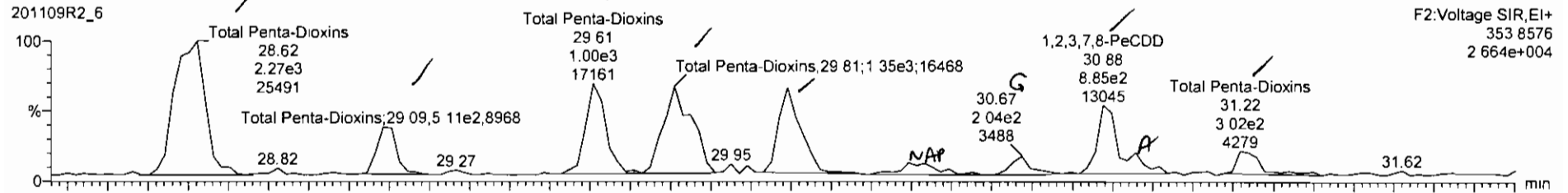
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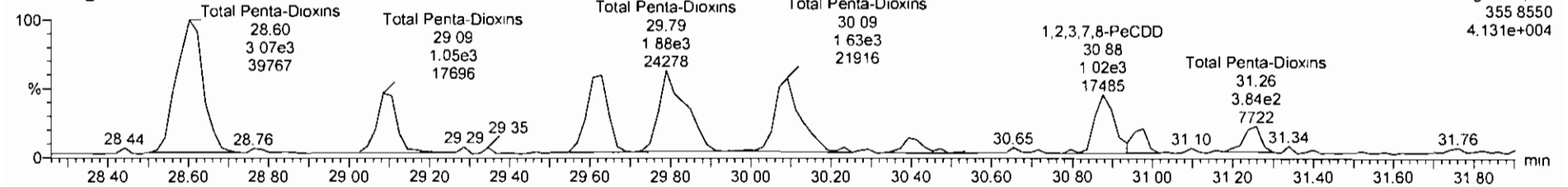
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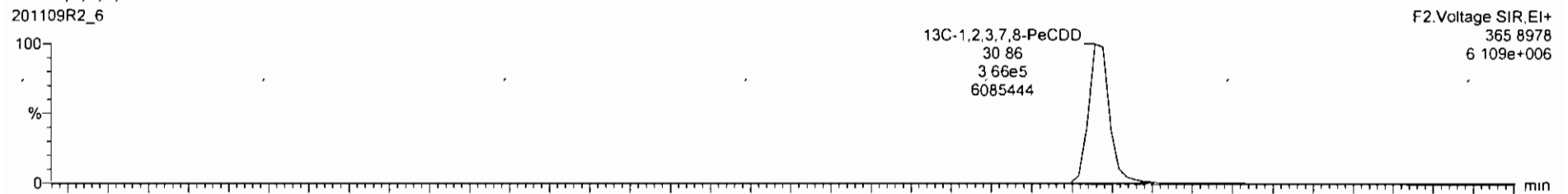
1,2,3,7,8-PeCDD



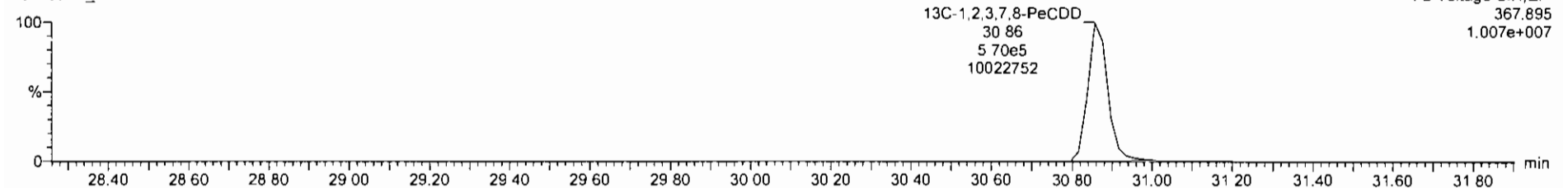
201109R2\_6

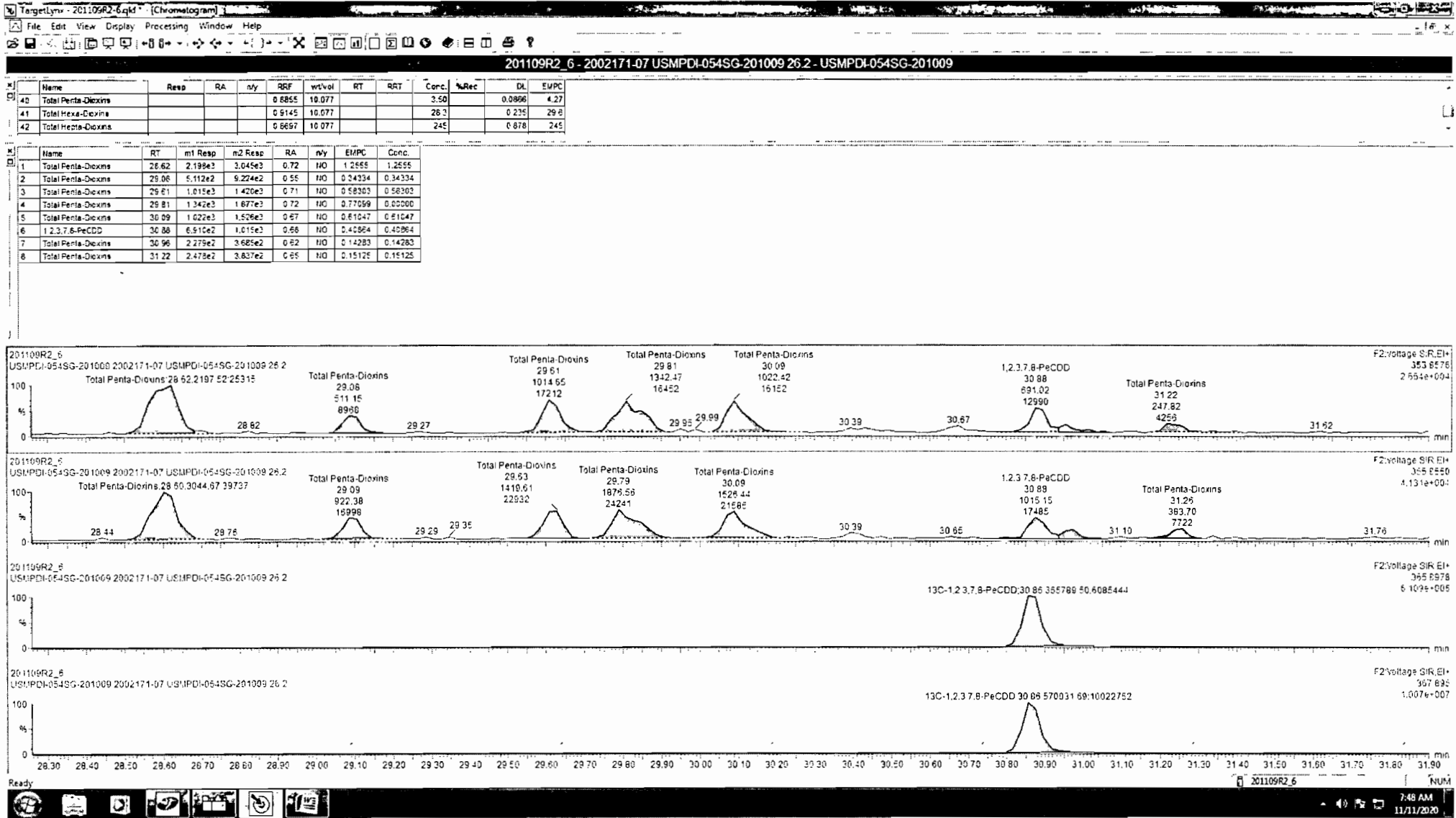


13C-1,2,3,7,8-PeCDD



201109R2\_6





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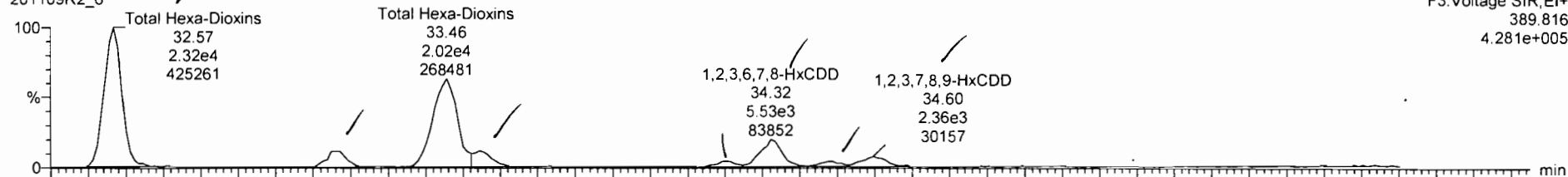
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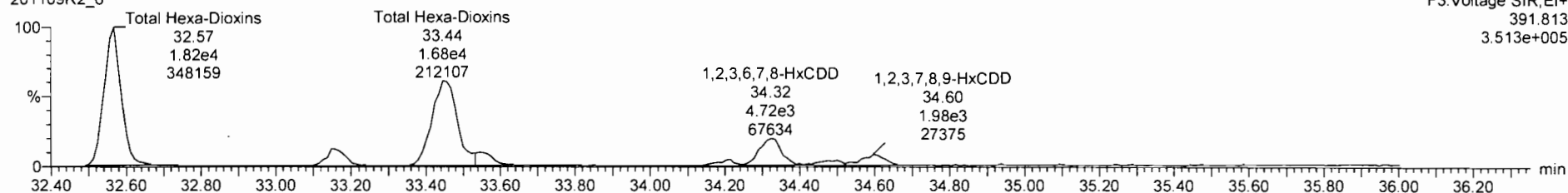
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**1,2,3,4,7,8-HxCDD**

201109R2\_6

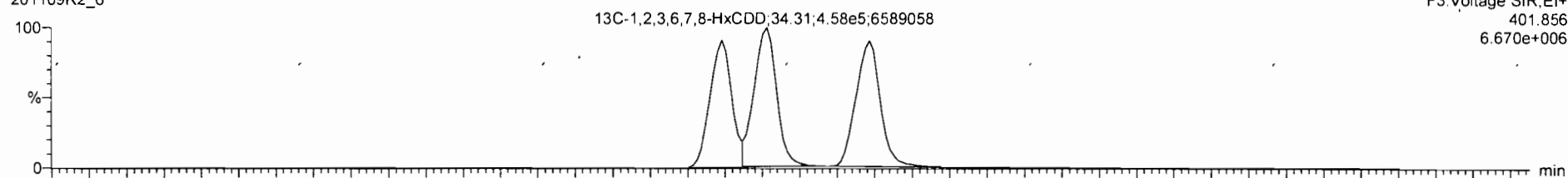


201109R2\_6

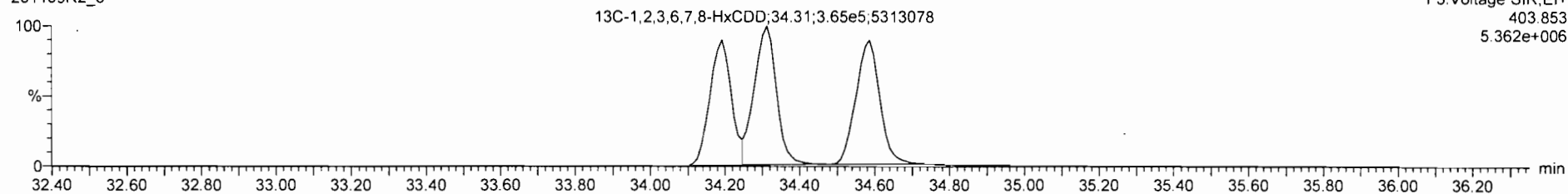


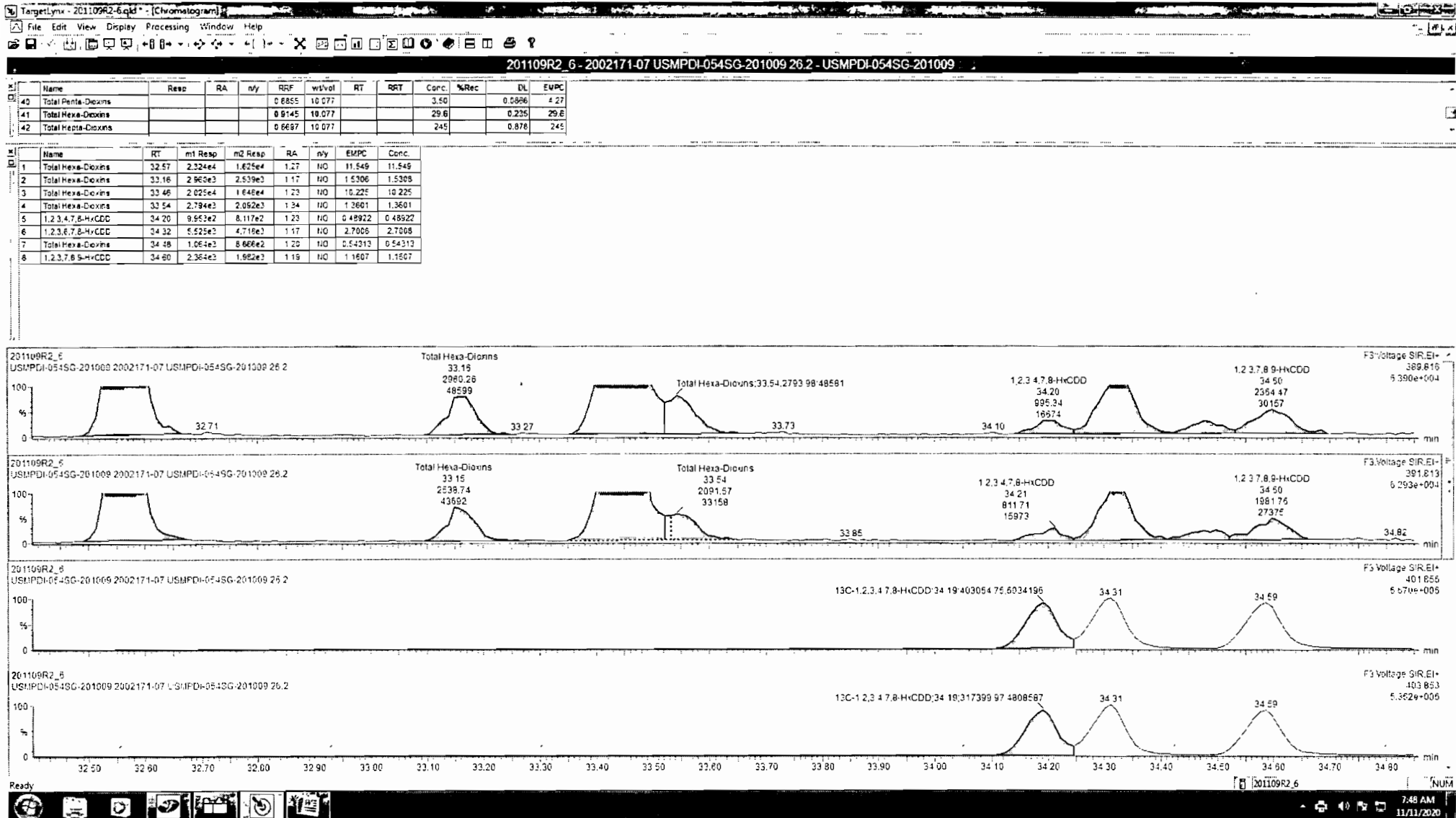
**13C-1,2,3,4,7,8-HxCDD**

201109R2\_6



201109R2\_6





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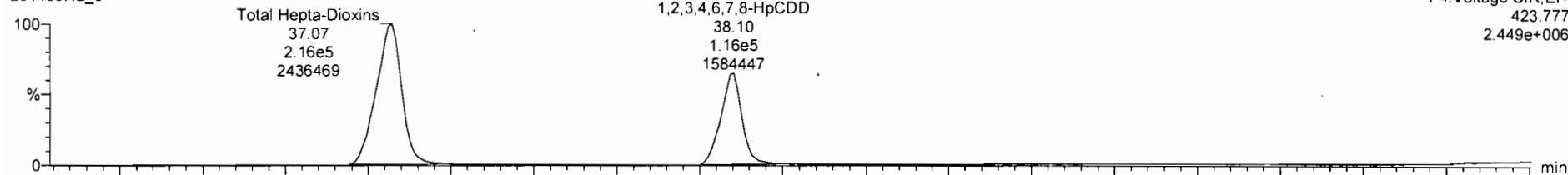
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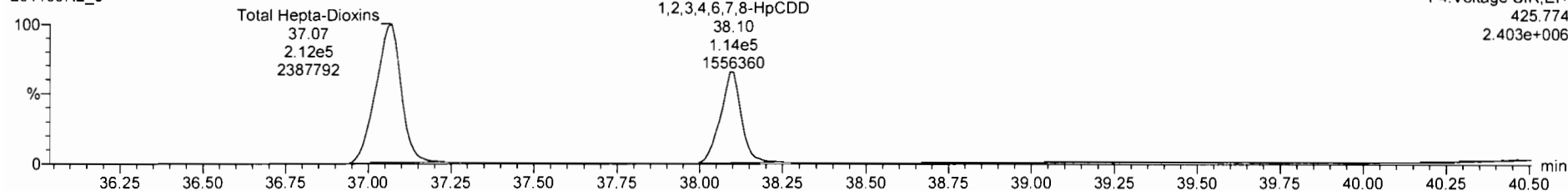
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**1,2,3,4,6,7,8-HpCDD**

201109R2\_6

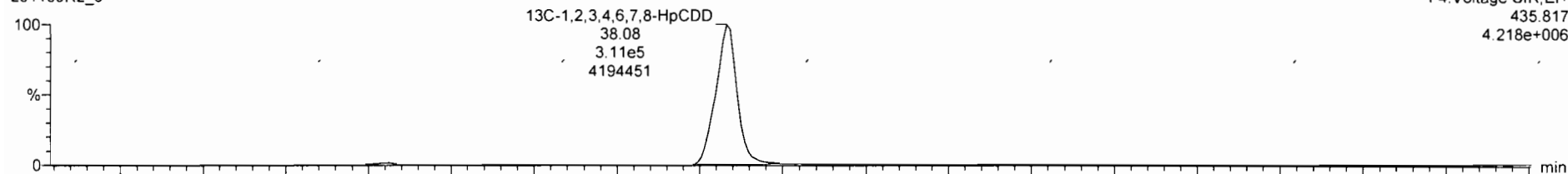


201109R2\_6

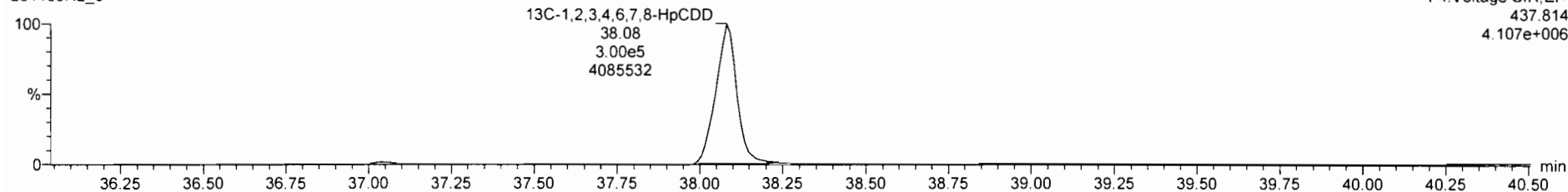


**13C-1,2,3,4,6,7,8-HpCDD**

201109R2\_6



201109R2\_6



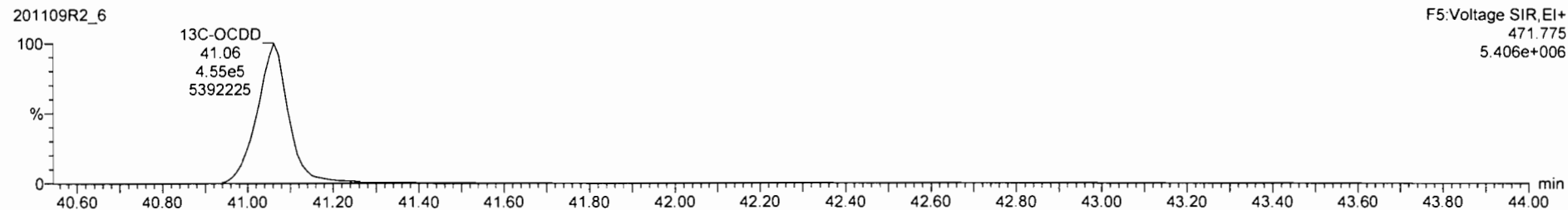
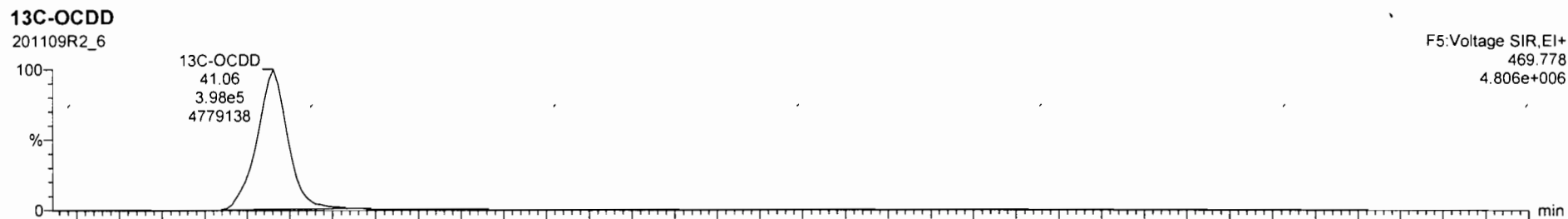
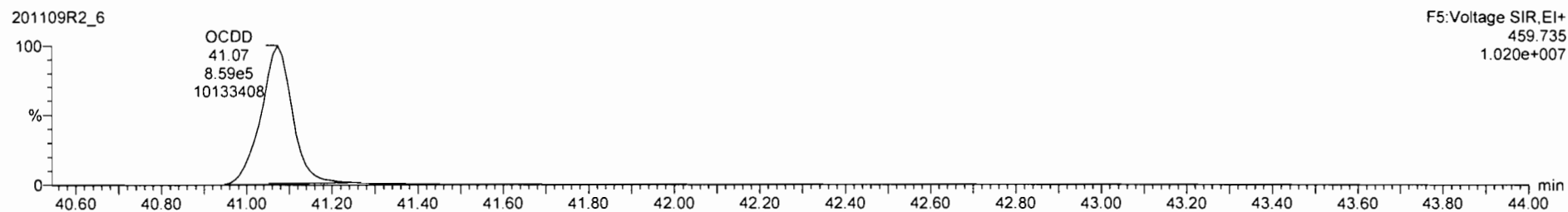
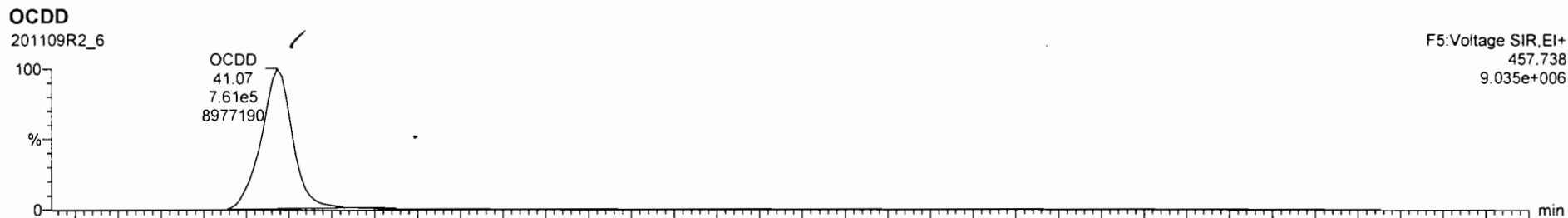


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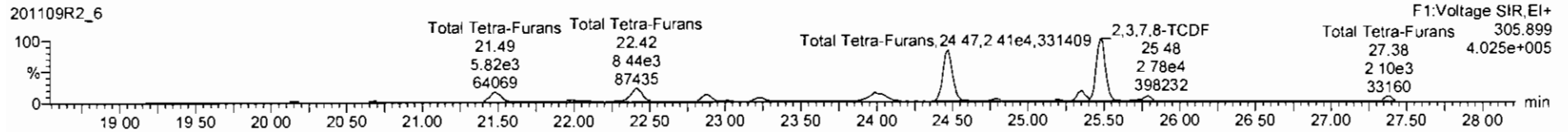
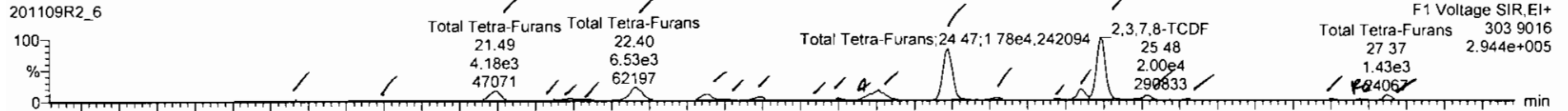


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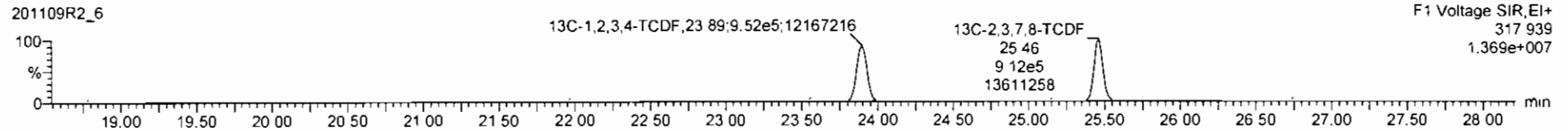
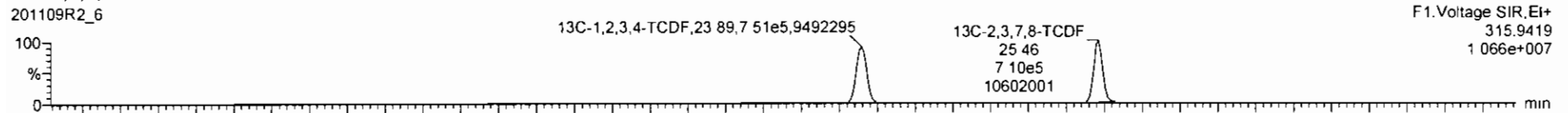
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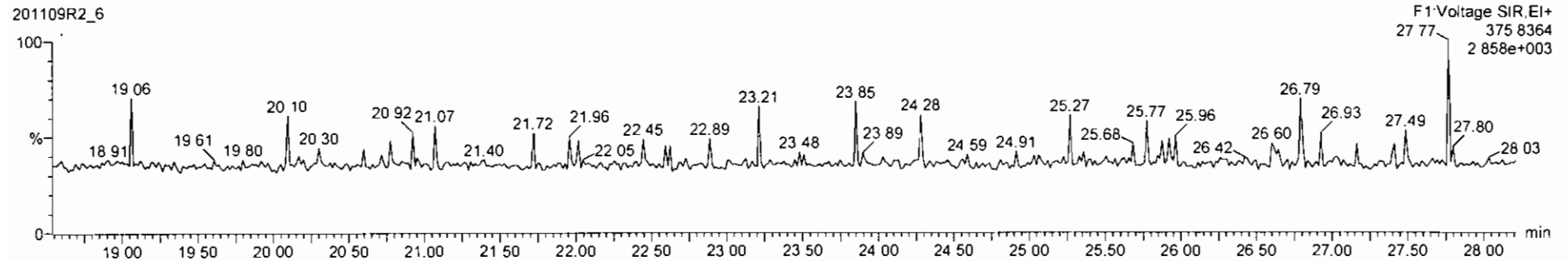
2,3,7,8-TCDF



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



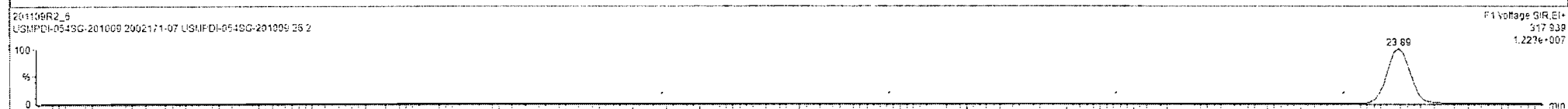
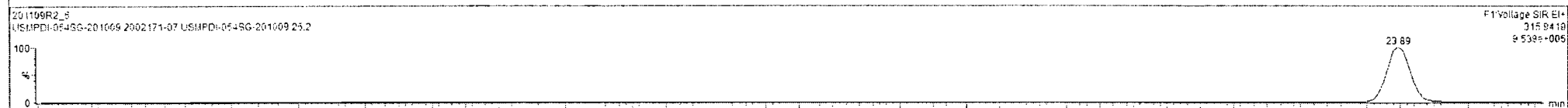
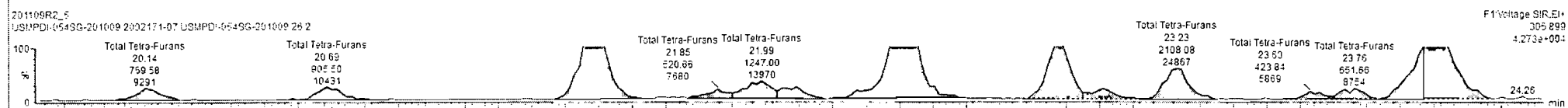
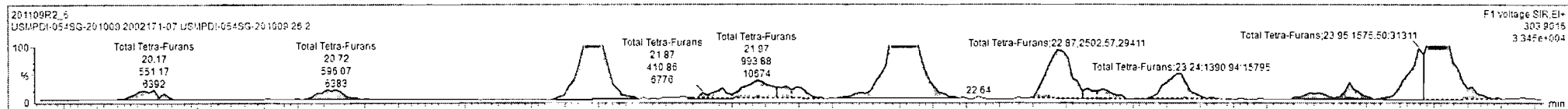
DPE1

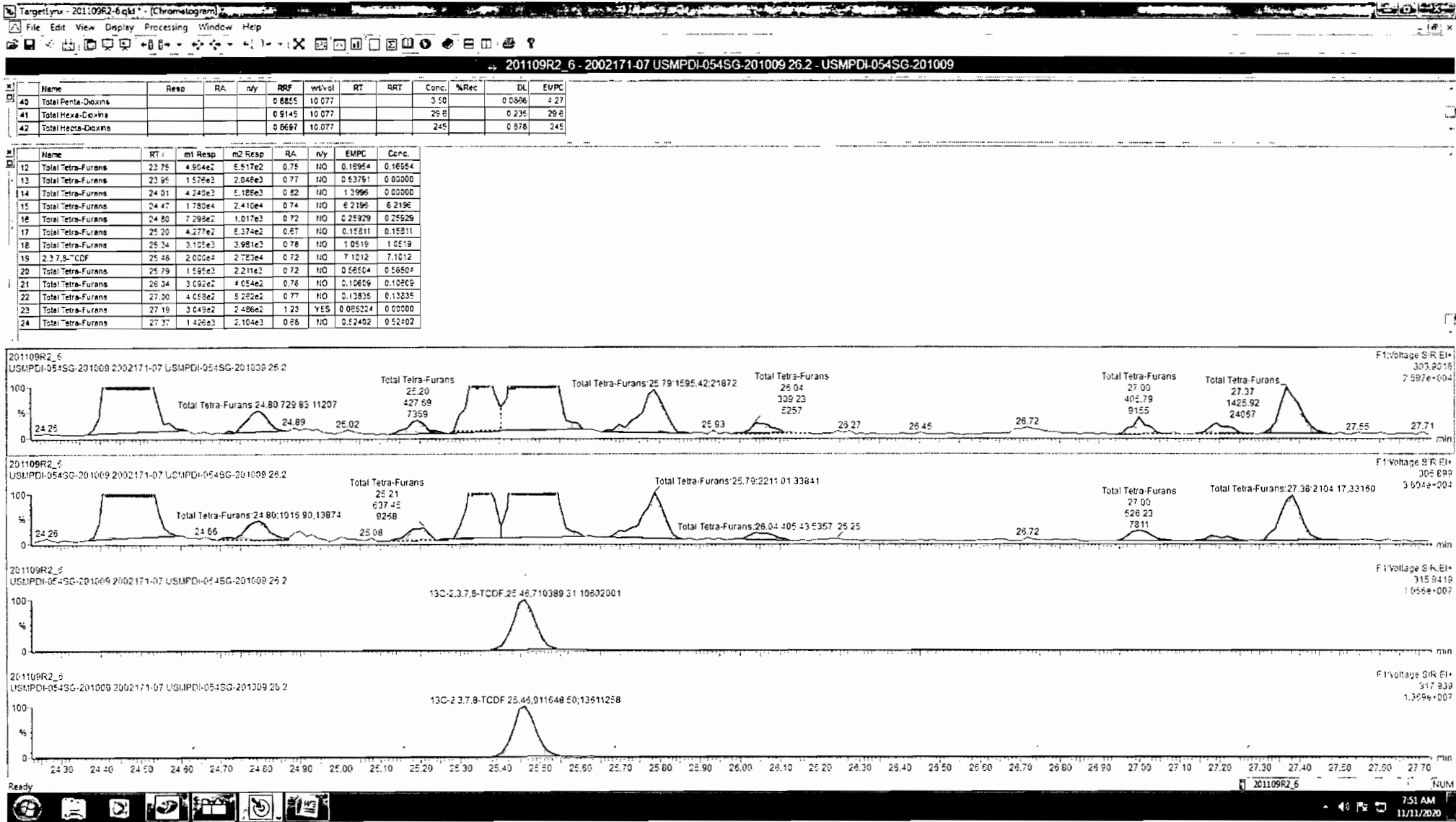


201109R2\_6:2002171-07 USMPDI-054SG-201009 26.2 - USMPDI-054SG-201009

Name	Resp	RA	nY	RF	wtVcl	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.6855	10.077			3.50		0.0856	4.27
41 Total Hexa-Dioxins				0.5145	10.077			29.8		0.235	29.8
42 Total Hepta-Dioxins				0.6697	10.077			245		0.878	245

Name	RT	m1 Resp	m2 Resp	RA	nY	EMPC	Conc.
1 Total Tetra-Furans	20.17	5.512e2	7.696e2	0.72	NO	0.19608	0.19608
2 Total Tetra-Furans	20.72	5.961e2	9.055e2	0.66	NO	0.22290	0.22290
3 Total Tetra-Furans	21.49	4.182e2	5.616e2	0.72	NO	1.4842	1.4842
4 Total Tetra-Furans	21.87	4.105e2	5.207e2	0.79	NO	0.13828	0.13828
5 Total Tetra-Furans	21.97	9.635e2	1.247e3	0.80	NO	0.33254	0.33264
6 Total Tetra-Furans	22.06	6.326e2	7.683e2	0.80	NO	0.21053	0.21093
7 Total Tetra-Furans	22.40	6.528e2	8.437e2	0.77	NO	2.2215	2.2215
8 Total Tetra-Furans	22.87	2.502e2	3.622e2	0.59	NO	0.50916	0.50916
9 Total Tetra-Furans	22.96	5.612e2	6.861e2	0.82	NO	0.18545	0.18545
10 Total Tetra-Furans	23.24	1.391e2	2.106e2	0.66	NO	0.51941	0.51941
11 Total Tetra-Furans	23.23	3.492e2	4.238e2	0.82	NO	0.11476	0.11476
12 Total Tetra-Furans	23.75	4.904e2	6.517e2	0.75	NO	0.16954	0.16954
13 Total Tetra-Furans	23.95	1.578e2	2.048e2	0.77	NO	0.53791	0.50000
14 Total Tetra-Furans	24.01	4.242e2	5.166e2	0.72	NO	1.3996	0.00000





Dataset: Untitled

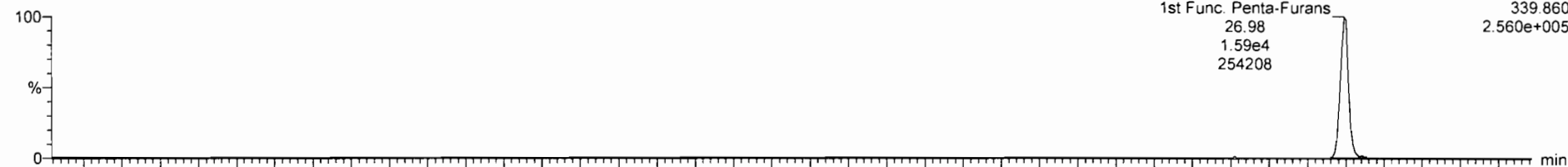
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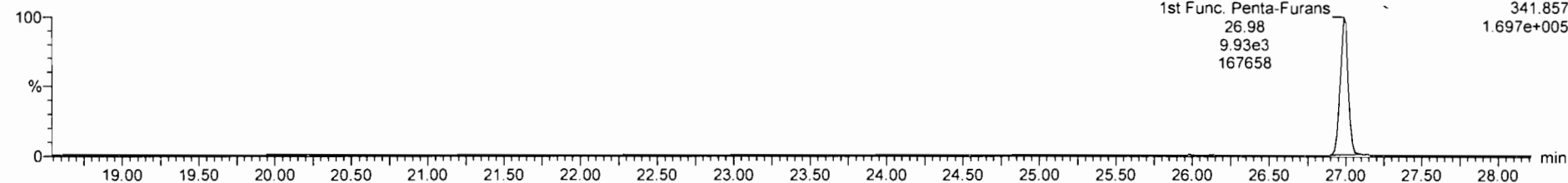
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1st Func. Penta-Furans

201109R2\_6

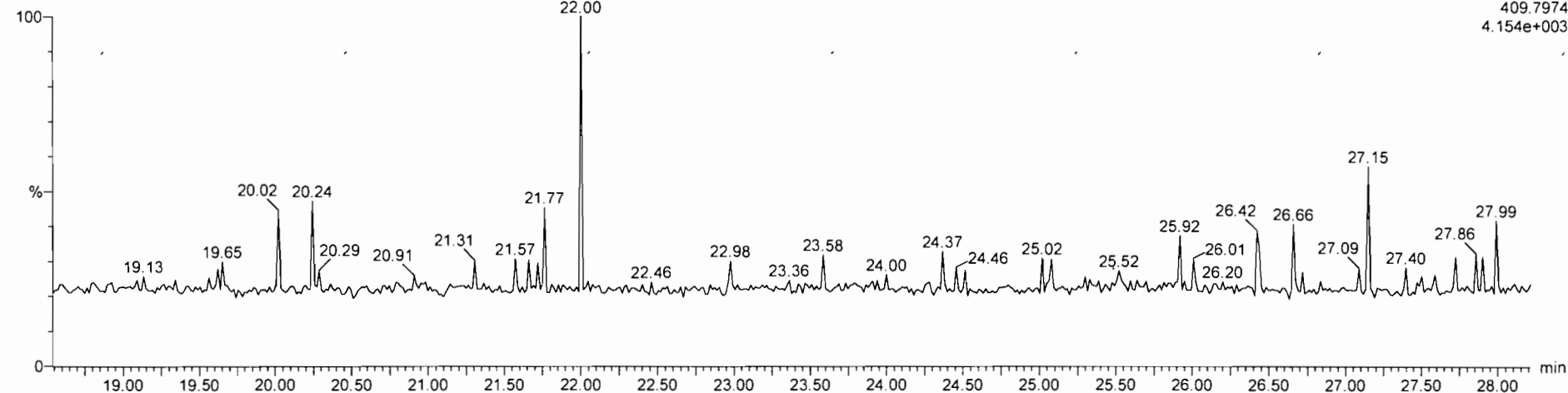


201109R2\_6



DPE6

201109R2\_6

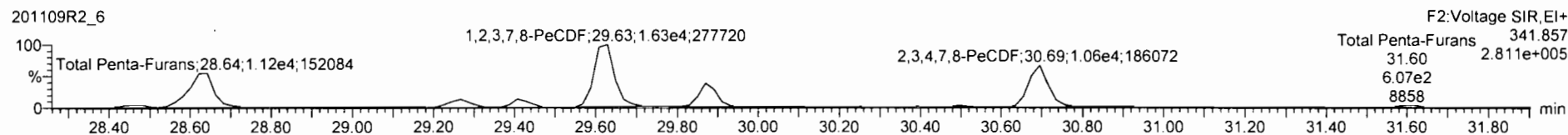
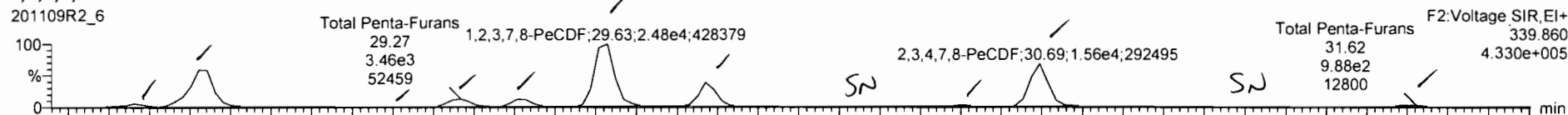


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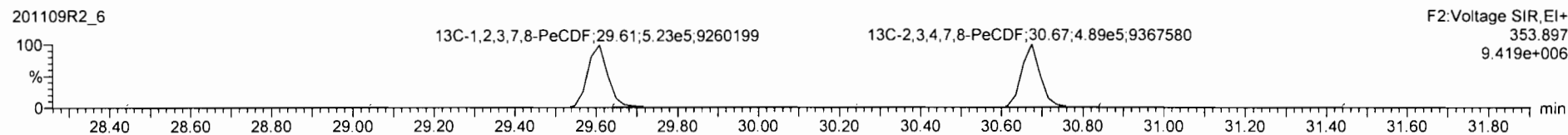
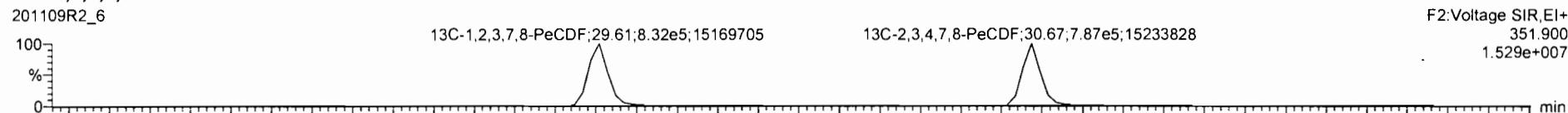
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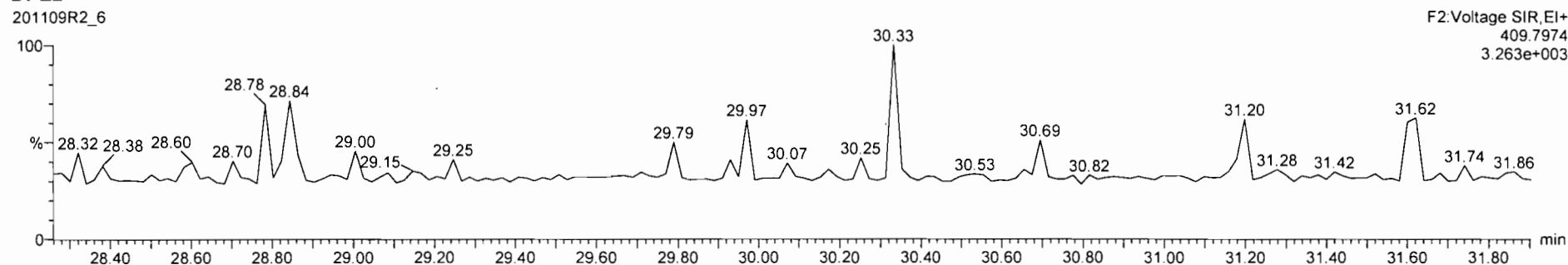
**1,2,3,7,8-PeCDF**

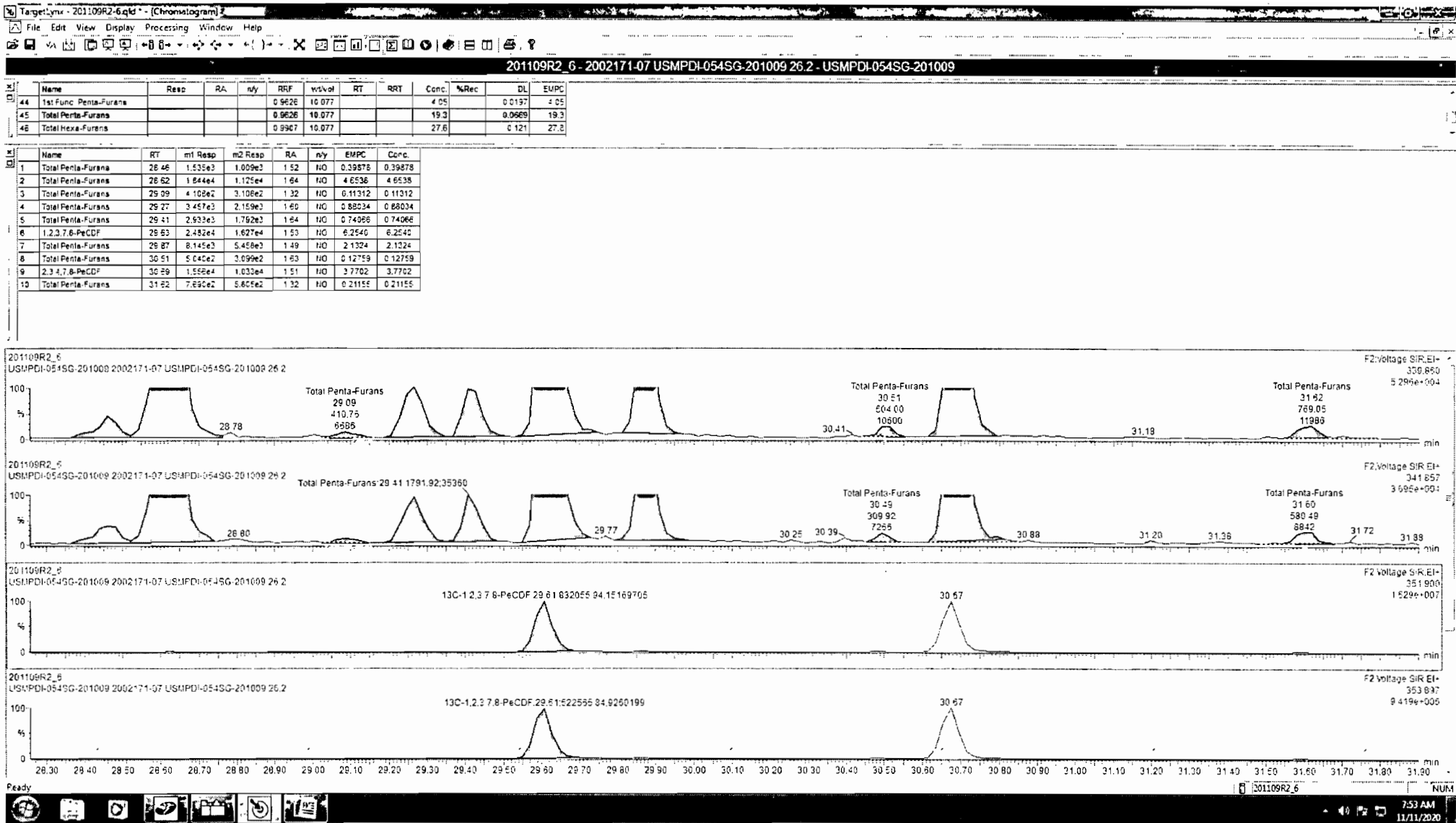


**13C-1,2,3,7,8-PeCDF**



**DPE2**





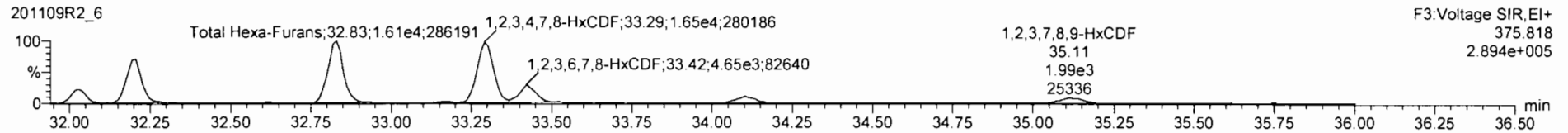
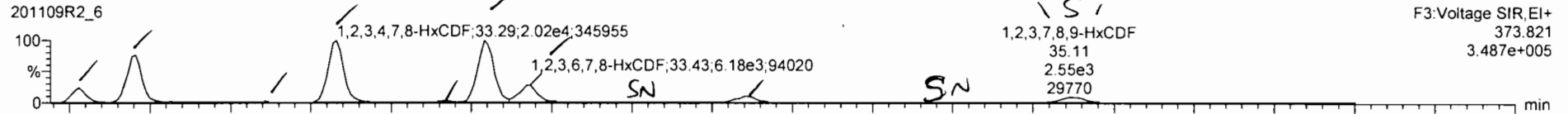
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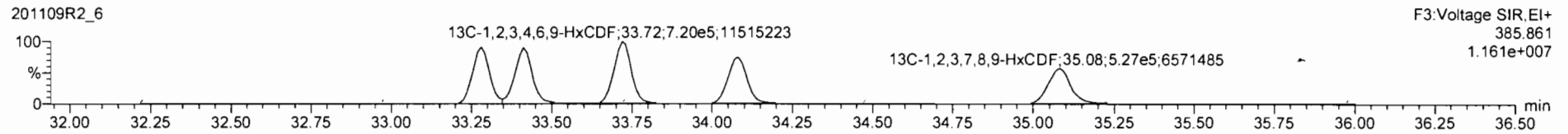
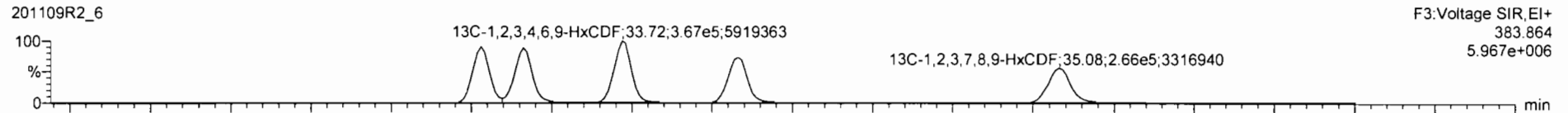
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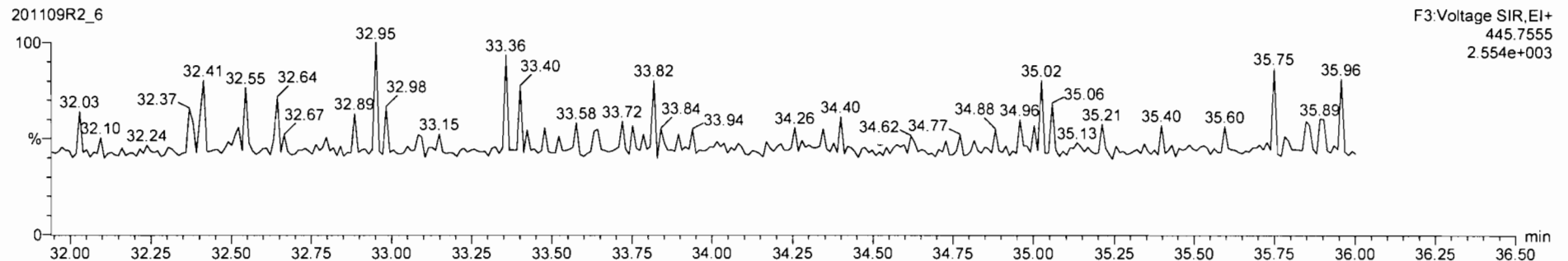
1,2,3,4,7,8-HxCDF



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



DPE3

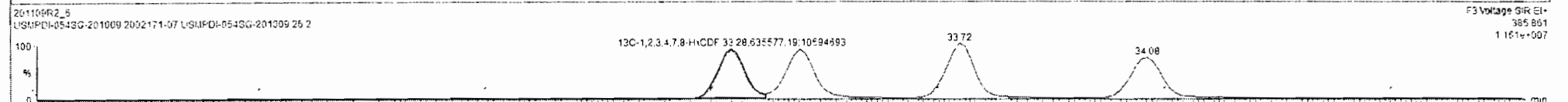
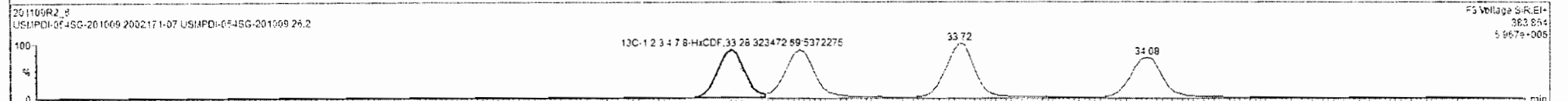
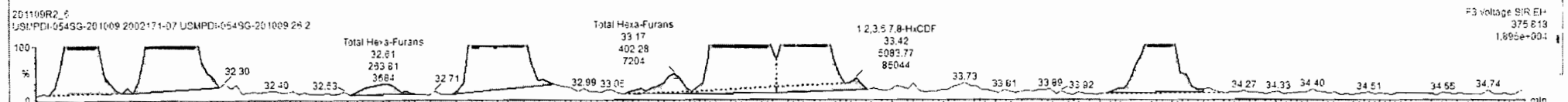
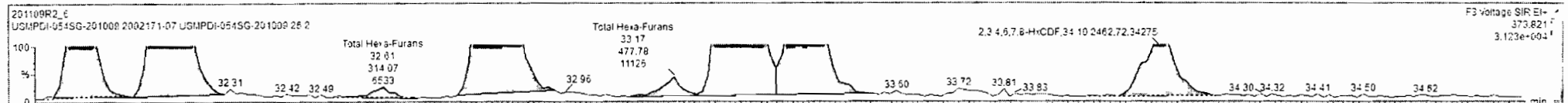




201109R2\_6 - 2002171-07 USMPDI-054SG-201009 26.2 - USMPDI-054SG-201009

Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc.	%Rec	DL	EVPC
44 1st Func Penta-Furans				0.9628	10.077			4.05	0.0197	4.05	
45 Total Penta-Furans				0.9628	10.077			19.3	0.0699	19.3	
46 Total Hexa-Furans				0.9907	10.077			27.8	0.121	28.0	

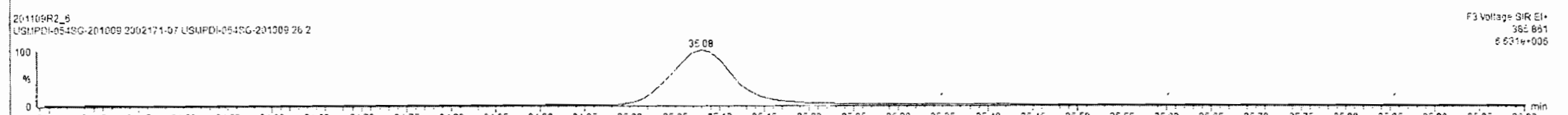
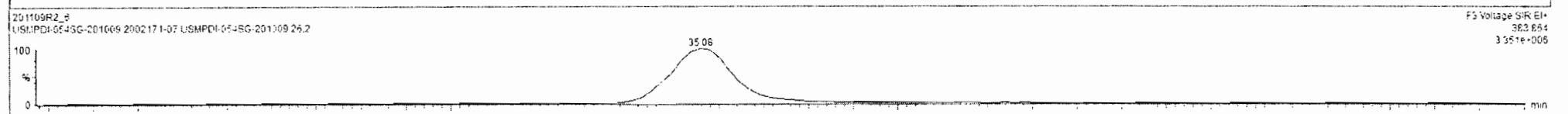
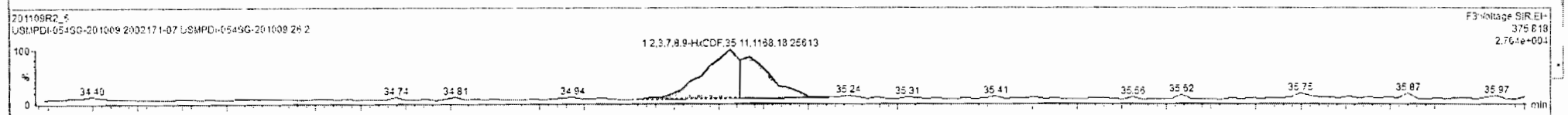
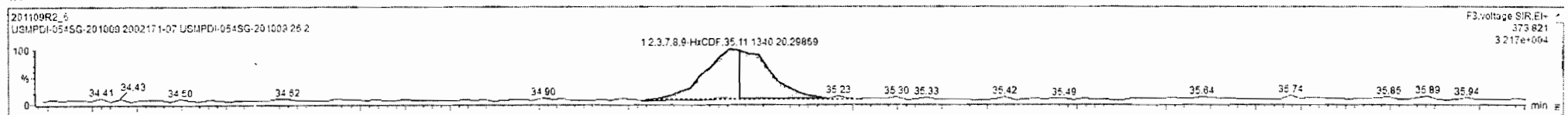
Name	RT	m1 Resp	m2 Resp	RA	n/y	EVPC	Conc.
1 Total Hexa-Furans	32.03	4.109e3	3.462e3	1.19	NO	1.6768	1.6768
2 Total Hexa-Furans	32.21	1.427e4	1.112e4	1.29	NO	5.6467	5.6467
3 Total Hexa-Furans	32.81	3.141e2	2.638e2	1.19	NO	0.12799	0.12799
4 Total Hexa-Furans	32.83	1.931e4	1.607e4	1.20	NO	7.8360	7.8360
5 Total Hexa-Furans	33.17	4.778e2	4.023e2	1.19	NO	0.19491	0.00000
6 1,2,3,4,7,8-HxCDF	33.29	2.619e4	1.682e4	1.20	NO	8.0262	8.0262
7 1,2,3,6,7,8-HxCDF	33.43	6.176e3	5.084e3	1.21	NO	2.2823	2.2823
8 2,3,4,6,7,8-HxCDF	34.10	2.462e2	2.058e2	1.19	NO	1.0250	1.0250
9 1,2,3,7,8,9-HxCDF	35.11	2.552e2	1.990e2	1.28	NO	1.1947	1.1947



201109R2\_6 - 2002171-07 USMPDI-054SG-201009 26.2 - USMPDI-054SG-201009

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9626	10.077			4.05		0.0197	4.05
45 Total Penta-Furans				0.9626	10.077			19.3		0.0629	19.3
46 Total Hexa-Furans				0.8907	10.077			27.9		0.121	27.9

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.03	4.109e3	3.462e3	1.19	NO	1.6766	1.6766
2 Total Hexa-Furans	32.21	1.437e4	1.112e4	1.29	NO	5.8467	5.8467
3 Total Hexa-Furans	32.61	3.141e2	2.638e2	1.19	NO	0.12759	0.12799
4 Total Hexa-Furans	32.83	1.931e4	1.607e4	1.26	NO	7.8360	7.6360
5 Total Hexa-Furans	33.17	4.775e2	4.023e2	1.19	NO	0.19491	0.19491
6 1,2,3,4,7,8-HxCDF	33.29	2.018e4	1.682e4	1.20	NO	8.0292	8.0292
7 1,2,3,6,7,8-HxCDF	33.43	6.176e3	5.084e3	1.21	NO	2.2823	2.2623
8 2,3,4,6,7,8-HxCDF	34.10	2.463e3	2.026e3	1.19	NO	1.0250	1.0250
9 1,2,3,7,8,9-HxCDF	35.11	1.240e3	1.188e3	1.15	NO	0.65983	0.65983
10 Total Hexa-Furans	35.12	1.185e2	6.791e2	1.35	NO	0.45719	0.45719

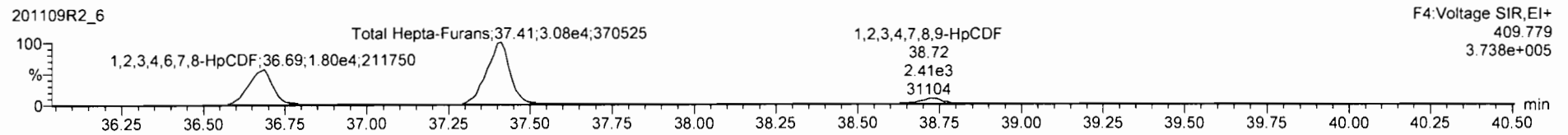
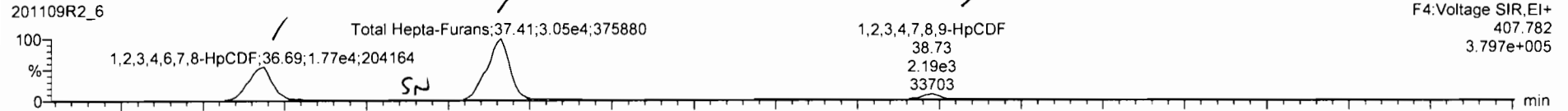


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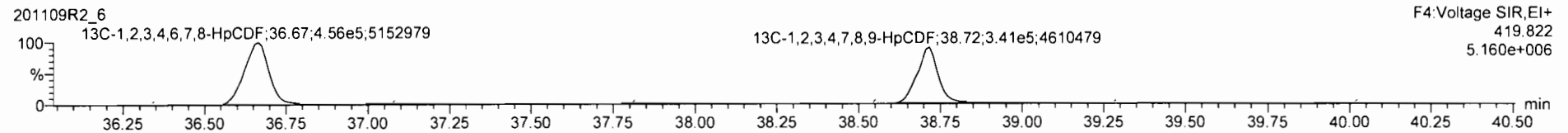
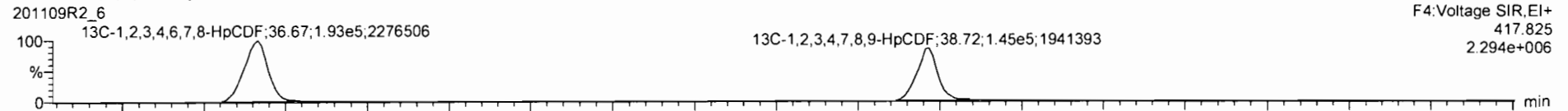
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Printed: Tuesday, November 10, 2020 7:25:24 AM Pacific Standard Time

Name: 201109R2\_6, Date: 09-Nov-2020, Time: 23:13:06, ID: 2002171-07 USMPDI-054SG-201009 26.2, Description: USMPDI-054SG-201009

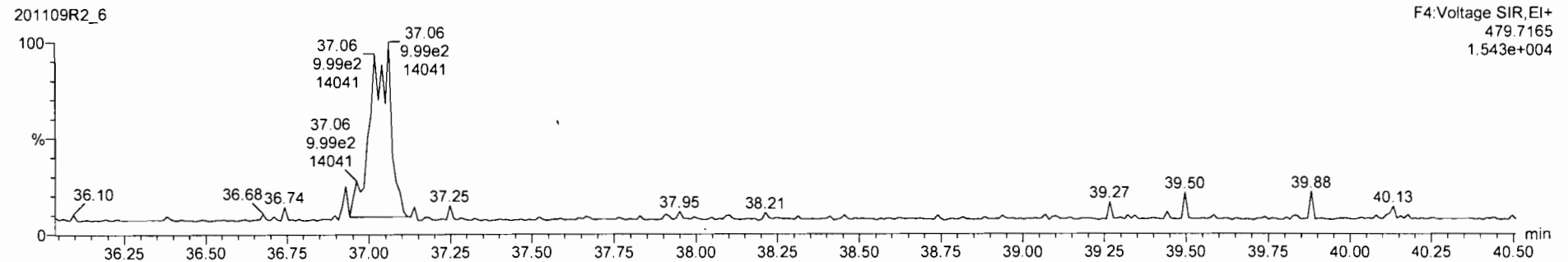
1,2,3,4,6,7,8-HpCDF

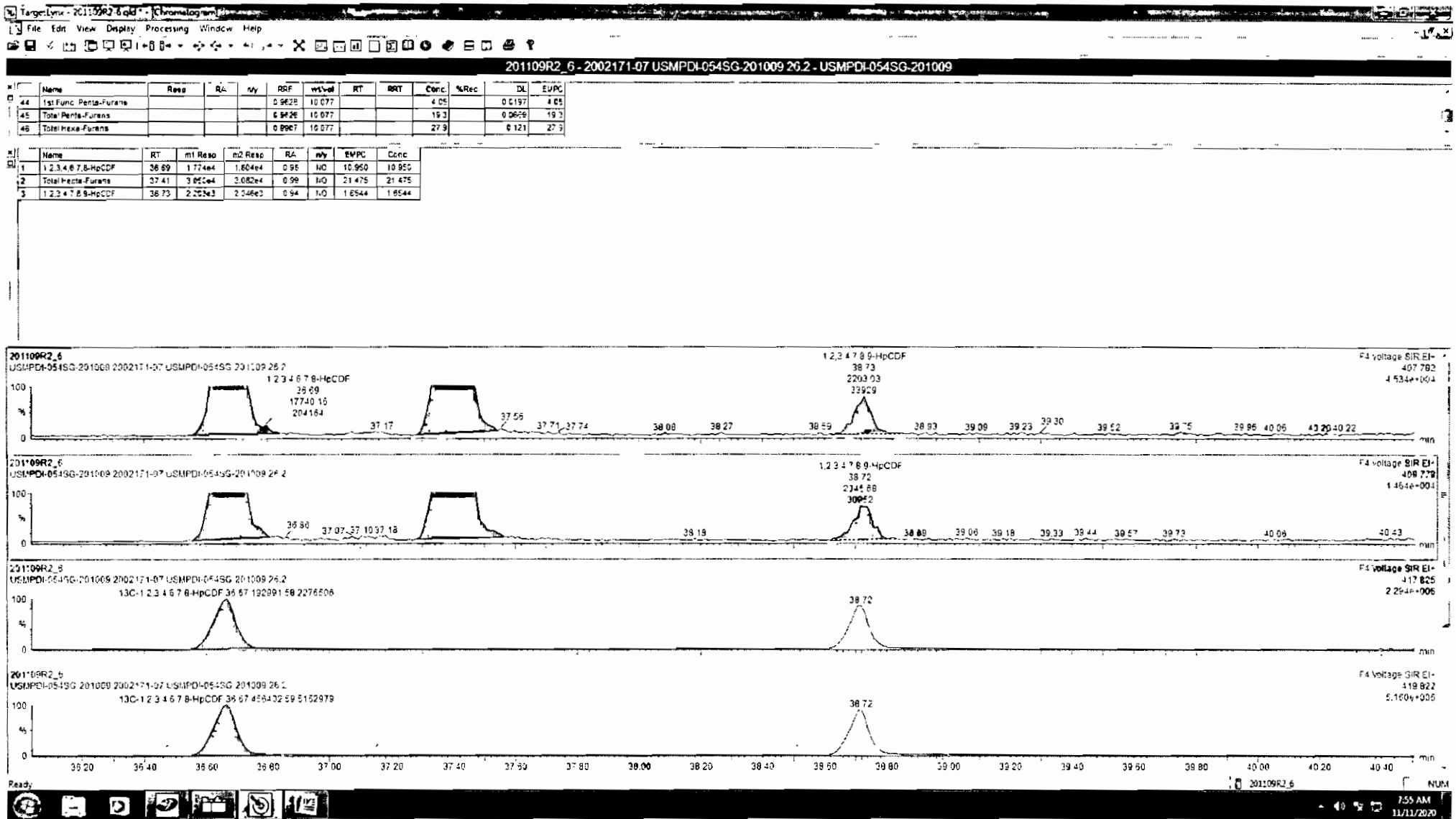


13C-1,2,3,4,6,7,8-HpCDF



DPE4





Dataset: Untitled

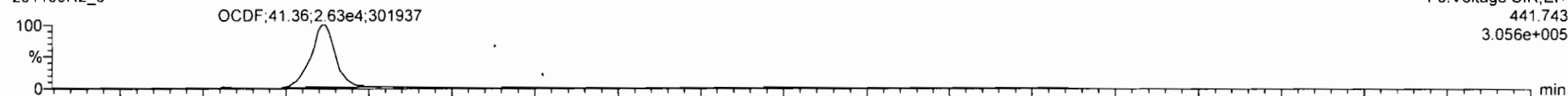
Last Altered: Tuesday, November 10, 2020 7:22:03 AM Pacific Standard Time

Printed: Tuesday, November 10, 2020 7:25:24 AM Pacific Standard Time

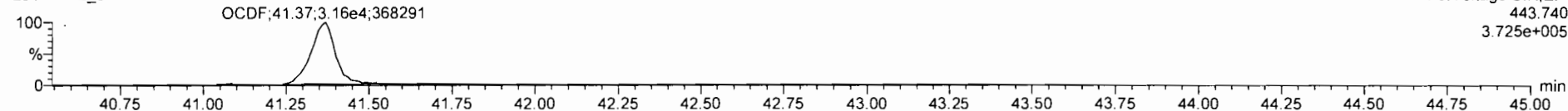
Name: 201109R2\_6, Date: 09-Nov-2020, Time: 23:13:06, ID: 2002171-07 USMPDI-054SG-201009 26.2, Description: USMPDI-054SG-201009

**OCDF**

201109R2\_6

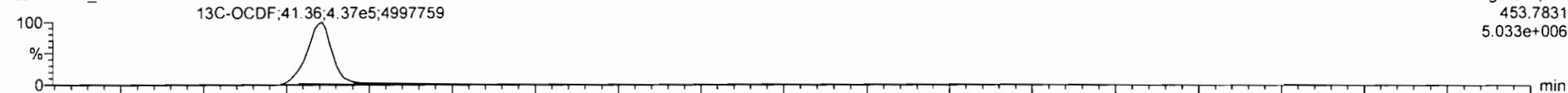


201109R2\_6

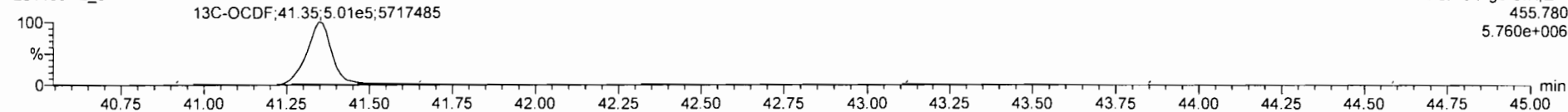


**13C-OCDF**

201109R2\_6

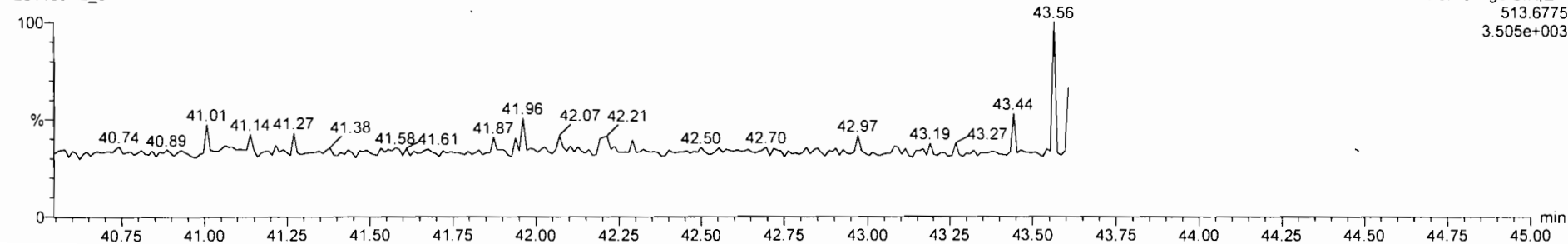


201109R2\_6



**DPE5**

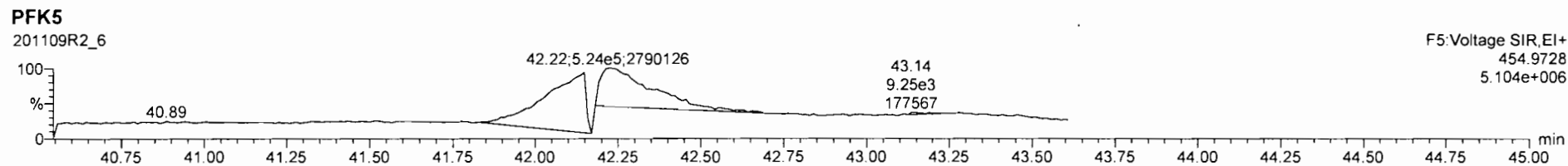
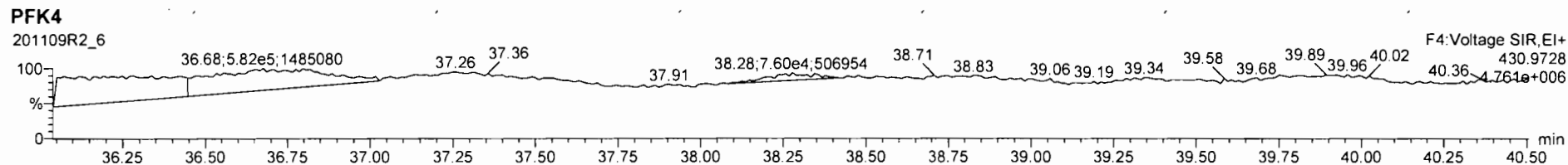
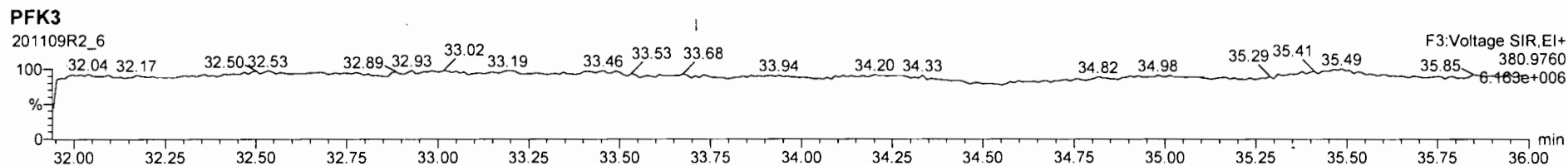
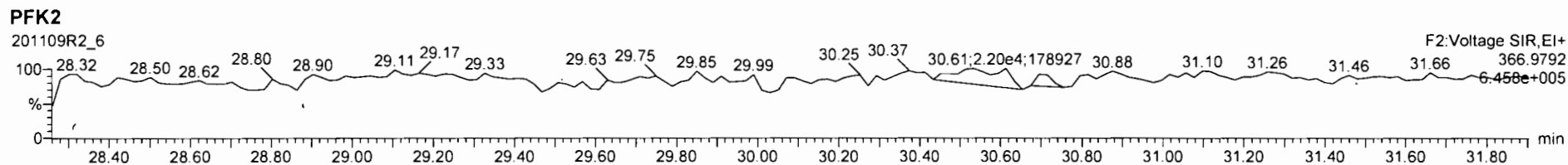
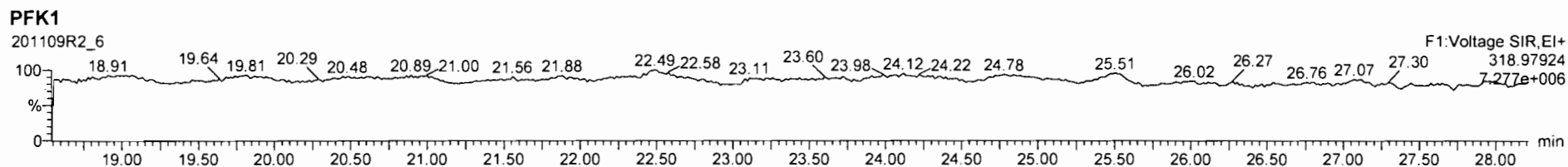
201109R2\_6



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Last Altered: Tuesday, November 10, 2020 7:22:03 AM-Pacific Standard Time  
Printed: Tuesday, November 10, 2020 7:25:24 AM Pacific Standard Time

Name: 201109R2\_6, Date: 09-Nov-2020, Time: 23:13:06, ID: 2002171-07 USMPDI-054SG-201009 26.2, Description: USMPDI-054SG-201009



**SAMPLE DATA – EPA METHOD 1668A**

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-4.qld

Last Altered: Monday, October 26, 2020 14:29:29 Pacific Daylight Time  
Printed: Monday, October 26, 2020 14:30:10 Pacific Daylight Time

*h 10-26-2020*

*CT 11/03/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1			NO	1.17	5.000	15.57		1.001		YES			0.433	
2	2 PCB-2			NO	1.18	5.000	17.99		0.988		YES			0.411	
3	3 PCB-3			NO	1.15	5.000	18.21		1.001		YES			0.424	
4	4 PCB-4/10			NO	1.25	5.000	19.64		1.004		YES			2.00	
5	5 PCB-7/9			NO	0.960	5.000	21.45		1.003		YES			1.57	
6	6 PCB-6			NO	1.02	5.000	22.10		1.033		YES			1.47	
7	7 PCB-5/8			NO	0.992	5.000	22.51		1.052		YES			1.52	
8	8 PCB-14			NO	1.02	5.000	23.64		0.951		YES			1.49	
9	9 PCB-11			NO	1.13	5.000	24.87		1.001		YES			1.35	
10	10 PCB-12/13			NO	1.03	5.000	25.30		1.018		YES			1.48	
11	11 PCB-15			NO	1.03	5.000	25.59		1.030		YES			1.47	
12	12 PCB-19			NO	1.11	5.000	23.83		1.001		YES			0.970	
13	13 PCB-30			NO	1.79	5.000	24.73		1.039		YES			0.598	
14	14 PCB-18			NO	0.818	5.000	25.51		0.952		YES			0.888	
15	15 PCB-17			NO	0.758	5.000	25.69		0.959		YES			0.958	
16	16 PCB-24/27			NO	1.08	5.000	26.29		0.981		YES			0.671	
17	17 PCB-16/32			NO	0.925	5.000	26.82		1.001		YES			0.785	
18	18 PCB-34			NO	0.945	5.000	27.62		0.959		YES			0.655	
19	19 PCB-23			NO	0.883	5.000	27.71		0.962		YES			0.701	
20	20 PCB-29			NO	0.893	5.000	27.97		0.971		YES			0.693	
21	21 PCB-26			NO	0.944	5.000	28.20		0.979		YES			0.656	
22	22 PCB-25			NO	0.950	5.000	28.35		0.984		YES			0.652	
23	23 PCB-31			NO	1.04	5.000	28.73		0.997		YES			0.597	
24	24 PCB-28			NO	1.03	5.000	28.83		1.001		YES			0.604	
25	25 PCB-20/21/33			NO	0.941	5.000	29.47		1.023		YES			0.658	
26	26 PCB-22			NO	0.973	5.000	29.91		1.038		YES			0.636	
27	27 PCB-36			NO	1.08	5.000	30.56		0.931		YES			0.661	
28	28 PCB-39			NO	0.988	5.000	31.06		0.947		YES			0.720	
29	29 PCB-38			NO	1.05	5.000	31.85		0.970		YES			0.676	
30	30 PCB-35			NO	1.04	5.000	32.39		0.987		YES			0.681	
31	31 PCB-37			NO	1.01	5.000	32.83		1.001		YES			0.705	
32	32 PCB-54			NO	1.08	5.000	27.66		1.001		YES			0.426	



Dataset: U:\VG11.PRO\Results\201026K1\201026K1-4.qld

Last Altered: Monday, October 26, 2020 14:29:29 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:30:10 Pacific Daylight Time

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50			NO	0.880	5.000	28.87		1.044		YES			0.523	
34	34 PCB-53			NO	0.997	5.000	29.55		0.944		YES			0.541	
35	35 PCB-51			NO	1.07	5.000	29.90		0.955		YES			0.506	
36	36 PCB-45			NO	0.858	5.000	30.35		0.969		YES			0.628	
37	37 PCB-46			NO	0.831	5.000	30.85		0.985		YES			0.649	
38	38 PCB-52/69			NO	1.17	5.000	31.34		1.001		YES			0.462	
39	39 PCB-73			NO	1.44	5.000	31.46		1.005		YES			0.374	
40	40 PCB-43/49			NO	1.02	5.000	31.63		1.010		YES			0.531	
41	41 PCB-47			NO	0.922	5.000	31.85		1.001		YES			0.551	
42	42 PCB-48/75			NO	1.12	5.000	31.96		1.004		YES			0.454	
43	43 PCB-65			NO	1.28	5.000	32.24		1.013		YES			0.396	
44	44 PCB-62			NO	1.13	5.000	32.33		1.016		YES			0.451	
45	45 PCB-44			NO	0.824	5.000	32.66		1.026		YES			0.617	
46	46 PCB-42/59			NO	1.05	5.000	32.89		1.033		YES			0.484	
47	47 PCB-41/64/71/72			NO	1.19	5.000	33.50		1.053		YES			0.428	
48	48 PCB-68			NO	1.28	5.000	33.76		1.061		YES			0.398	
49	49 PCB-40			NO	0.602	5.000	33.98		1.067		YES			0.844	
50	50 PCB-57			NO	1.16	5.000	34.37		0.969		YES			0.376	
51	51 PCB-67			NO	1.08	5.000	34.68		0.978		YES			0.404	
52	52 PCB-58			NO	1.20	5.000	34.80		0.982		YES			0.363	
53	53 PCB-63			NO	1.07	5.000	34.96		0.986		YES			0.408	
54	54 PCB-74			NO	1.19	5.000	35.26		0.994		YES			0.369	
55	55 PCB-61/70			NO	1.05	5.000	35.47		1.000		YES			0.415	
56	56 PCB-76/66			NO	1.16	5.000	35.67		1.006		YES			0.376	
57	57 PCB-80			NO	1.19	5.000	35.91		1.001		YES			0.383	
58	58 PCB-55			NO	1.17	5.000	36.24		1.010		YES			0.389	
59	59 PCB-56/60			NO	1.02	5.000	36.73		1.024		YES			0.446	
60	60 PCB-79			NO	1.14	5.000	37.86		1.055		YES			0.399	
61	61 PCB-78			NO	1.14	5.000	38.56		0.987		YES			0.418	
62	62 PCB-81			NO	1.05	5.000	39.10		1.000		YES			0.454	
63	63 PCB-77			NO	1.14	5.000	39.72		1.000		YES			0.434	
64	64 PCB-104			NO	1.12	5.000	32.52		1.001		YES			0.466	
65	65 PCB-96			NO	1.15	5.000	33.82		1.041		YES			0.454	
66	66 PCB-103			NO	0.936	5.000	34.38		1.058		YES			0.559	
67	67 PCB-100			NO	0.954	5.000	34.75		1.069		YES			0.549	
68	68 PCB-94			NO	0.949	5.000	35.23		0.985		YES			0.718	

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-4.qld

Last Altered: Monday, October 26, 2020 14:29:29 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:30:10 Pacific Daylight Time

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102			NO	1.20	5.000	35.70		0.999		YES			0.566	
70	70 PCB-93			NO	0.935	5.000	35.85		1.003		YES			0.729	
71	71 PCB-88/91			NO	1.06	5.000	36.18		1.012		YES			0.640	
72	72 PCB-121			NO	1.71	5.000	36.29		1.015		YES			0.399	
73	73 PCB-84/92			NO	1.02	5.000	37.13		0.990		YES			0.657	
74	74 PCB-89			NO	1.11	5.000	37.32		0.995		YES			0.605	
75	75 PCB-90/101			NO	1.12	5.000	37.51		1.000		YES			0.596	
76	76 PCB-113			NO	1.51	5.000	37.77		1.007		YES			0.442	
77	77 PCB-99			NO	1.32	5.000	37.86		1.010		YES			0.506	
78	78 PCB-119			NO	1.81	5.000	38.34		0.987		YES			0.422	
79	79 PCB-108/112			NO	1.44	5.000	38.50		0.991		YES			0.527	
80	80 PCB-83			NO	1.83	5.000	38.67		0.996		YES			0.416	
81	81 PCB-97			NO	1.28	5.000	38.86		1.000		YES			0.594	
82	82 PCB-86			NO	1.12	5.000	39.03		1.005		YES			0.681	
83	83 PCB-87/117/125			NO	1.56	5.000	39.15		1.008		YES			0.488	
84	84 PCB-111/115			NO	1.91	5.000	39.31		1.012		YES			0.398	
85	85 PCB-85/116			NO	1.41	5.000	39.44		1.015		YES			0.540	
86	86 PCB-120			NO	2.01	5.000	39.70		1.022		YES			0.380	
87	87 PCB-110			NO	1.74	5.000	39.85		1.026		YES			0.437	
88	88 PCB-82			NO	0.781	5.000	40.48		0.975		YES			0.720	
89	89 PCB-124			NO	1.40	5.000	41.19		0.993		YES			0.402	
90	90 PCB-107/109			NO	1.34	5.000	41.33		0.996		YES			0.419	
91	91 PCB-123			NO	1.20	5.000	41.52		1.000		YES			0.469	
92	92 PCB-106/118			NO	1.22	5.000	41.73		1.001		YES			0.447	
93	93 PCB-114			NO	1.14	5.000	42.39		1.000		YES			0.376	
94	94 PCB-122			NO	0.944	5.000	42.54		1.004		YES			0.454	
95	95 PCB-105			NO	1.05	5.000	43.27		1.000		YES			0.402	
96	96 PCB-127			NO	1.06	5.000	43.62		1.000		YES			0.387	
97	97 PCB-126			NO	1.17	5.000	45.59		1.000		YES			0.398	
98	98 PCB-155			NO	1.04	5.000	37.06		1.000		YES			0.437	
99	99 PCB-150			NO	1.08	5.000	38.36		1.036		YES			0.421	
100	1... PCB-152			NO	1.19	5.000	38.84		1.049		YES			0.384	
101	1... PCB-145			NO	1.19	5.000	39.31		1.061		YES			0.383	
102	1... PCB-136			NO	1.02	5.000	39.64		1.070		YES			0.446	
103	1... PCB-148			NO	0.842	5.000	39.75		1.073		YES			0.541	
104	1... PCB-154			NO	0.919	5.000	40.26		1.087		YES			0.496	

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-4.qld

Last Altered: Monday, October 26, 2020 14:29:29 Pacific Daylight Time  
Printed: Monday, October 26, 2020 14:30:10 Pacific Daylight Time

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151			NO	0.787	5.000	40.93		1.105		YES			0.579	
106	1... PCB-135			NO	0.922	5.000	41.15		1.111		YES			0.494	
107	1... PCB-144			NO	0.789	5.000	41.26		1.114		YES			0.577	
108	1... PCB-147			NO	0.834	5.000	41.39		1.117		YES			0.546	
109	1... PCB-139/149	9.71e1	0.61	YES	0.948	5.000	41.68	41.63	1.125	1.124	NO	1.063		0.494	0.7307
110	1... PCB-140			NO	0.794	5.000	41.86		1.130		YES			0.574	
111	1... PCB-134/143			NO	0.759	5.000	42.31		0.974		YES			0.459	
112	1... PCB-131/133			NO	0.821	5.000	42.63		0.982		YES			0.424	
113	1... PCB-142			NO	0.754	5.000	42.79		0.985		YES			0.462	
114	1... PCB-146/165			NO	1.02	5.000	43.03		0.991		YES			0.343	
115	1... PCB-132/161			NO	1.02	5.000	43.28		0.997		YES			0.340	
116	1... PCB-153			NO	1.07	5.000	43.44		1.000		YES			0.325	
117	1... PCB-168			NO	1.08	5.000	43.67		1.006		YES			0.323	
118	1... PCB-141			NO	1.03	5.000	44.20		1.000		YES			0.419	
119	1... PCB-137			NO	1.11	5.000	44.60		1.009		YES			0.387	
120	1... PCB-130			NO	0.885	5.000	44.69		1.012		YES			0.486	
121	1... PCB-138/163/164			NO	1.28	5.000	45.09		1.001		YES			0.325	
122	1... PCB-158/160			NO	1.24	5.000	45.36		1.007		YES			0.336	
123	1... PCB-129			NO	0.867	5.000	45.59		1.012		YES			0.481	
124	1... PCB-166			NO	1.14	5.000	46.06		0.993		YES			0.298	
125	1... PCB-159			NO	1.22	5.000	46.41		1.001		YES			0.280	
126	1... PCB-128/162			NO	0.907	5.000	46.69		1.007		YES			0.375	
127	1... PCB-167			NO	1.11	5.000	47.10		1.000		YES			0.312	
128	1... PCB-156			NO	1.13	5.000	48.43		1.000		YES			0.331	
129	1... PCB-157			NO	1.04	5.000	48.71		1.000		YES			0.355	
130	1... PCB-169			NO	1.16	5.000	50.99		1.000		YES			0.353	
131	1... PCB-188			NO	1.29	5.000	43.07		1.001		YES			0.355	
132	1... PCB-184			NO	1.23	5.000	43.52		1.011		YES			0.372	
133	1... PCB-179			NO	1.30	5.000	44.32		1.030		YES			0.353	
134	1... PCB-176			NO	1.31	5.000	44.81		1.041		YES			0.350	
135	1... PCB-186			NO	1.33	5.000	45.43		1.056		YES			0.345	
136	1... PCB-178			NO	0.943	5.000	45.95		1.068		YES			0.486	
137	1... PCB-175			NO	0.956	5.000	46.31		1.076		YES			0.479	
138	1... PCB-182/187			NO	1.07	5.000	46.48		1.080		YES			0.430	
139	1... PCB-183			NO	1.02	5.000	46.80		1.088		YES			0.448	
140	1... PCB-185			NO	1.41	5.000	47.48		0.955		YES			0.490	

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-4.qld

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Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174			NO	1.35	5.000	47.86		0.962		YES			0.509	
142	1... PCB-181			NO	1.47	5.000	47.97		0.964		YES			0.468	
143	1... PCB-177			NO	1.28	5.000	48.14		0.968		YES			0.540	
144	1... PCB-171			NO	1.32	5.000	48.45		0.974		YES			0.524	
145	1... PCB-173			NO	1.19	5.000	48.88		0.983		YES			0.579	
146	1... PCB-172			NO	1.38	5.000	49.34		0.992		YES			0.501	
147	1... PCB-192			NO	1.83	5.000	49.55		0.996		YES			0.377	
148	1... PCB-180			NO	1.41	5.000	49.76		1.000		YES			0.488	
149	1... PCB-193			NO	1.68	5.000	49.97		1.005		YES			0.411	
150	1... PCB-191			NO	1.71	5.000	50.23		1.010		YES			0.403	
151	1... PCB-170			NO	1.40	5.000	51.42		1.000		YES			0.561	
152	1... PCB-190			NO	1.85	5.000	51.63		1.005		YES			0.425	
153	1... PCB-189			NO	1.45	5.000	53.13		1.000		YES			0.381	
154	1... PCB-202			NO	1.17	5.000	48.68		1.001		YES			0.309	
155	1... PCB-201			NO	1.05	5.000	49.15		1.010		YES			0.342	
156	1... PCB-204			NO	1.14	5.000	49.30		1.014		YES			0.316	
157	1... PCB-197			NO	1.13	5.000	49.61		1.020		YES			0.318	
158	1... PCB-200			NO	1.07	5.000	50.55		1.039		YES			0.337	
159	1... PCB-198			NO	0.794	5.000	52.10		1.071		YES			0.454	
160	1... PCB-199			NO	0.809	5.000	52.24		1.074		YES			0.445	
161	1... PCB-196/203			NO	0.838	5.000	52.53		1.080		YES			0.430	
162	1... PCB-195			NO	1.04	5.000	53.83		0.984		YES			0.382	
163	1... PCB-194	1.57e2	1.34	YES	1.12	5.000	54.74	54.74	1.000	1.000	NO	0.8339		0.357	0.6735
164	1... PCB-205			NO	1.29	5.000	55.01		1.005		YES			0.309	
165	1... PCB-208			NO	0.933	5.000	53.98		1.000		YES			0.325	
166	1... PCB-207			NO	0.916	5.000	54.30		1.006		YES			0.331	
167	1... PCB-206			NO	1.01	5.000	56.27		1.000		YES			0.455	
168	1... PCB-209			NO	0.986	5.000	57.49		1.000		YES			0.606	
169	1... 13C-PCB-1	6.33e5	3.22	NO	0.893	5.000	15.57	15.55	0.609	0.608	NO	1138	56.9	1.92	
170	1... 13C-PCB-3	6.78e5	3.37	NO	0.911	5.000	18.21	18.20	0.712	0.712	NO	1196	59.8	1.89	
171	1... 13C-PCB-4	5.70e5	1.62	NO	0.600	5.000	19.58	19.56	0.766	0.765	NO	1525	76.3	1.37	
172	1... 13C-PCB-9	9.44e5	1.61	NO	0.970	5.000	21.39	21.39	0.837	0.837	NO	1564	78.2	0.850	
173	1... 13C-PCB-11	9.65e5	1.62	NO	0.962	5.000	24.85	24.85	0.972	0.972	NO	1612	80.6	0.857	
174	1... 13C-PCB-19	4.21e5	1.07	NO	0.499	5.000	23.81	23.80	0.931	0.931	NO	1354	67.7	10.6	
175	1... 13C-PCB-32	6.35e5	1.07	NO	0.744	5.000	26.80	26.80	1.048	1.048	NO	1372	68.6	7.12	
176	1... 13C-PCB-28	9.64e5	1.06	NO	1.06	5.000	28.81	28.81	1.004	1.004	NO	1624	81.2	6.83	

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Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	8.92e5	1.05	NO	0.989	5.000	32.79	32.81	1.143	1.143	NO	1616	80.8	7.35	
178	1... 13C-PCB-54	5.89e5	0.79	NO	0.999	5.000	27.65	27.64	0.753	0.752	NO	1654	82.7	3.31	
179	1... 13C-PCB-52	4.94e5	0.82	NO	0.804	5.000	31.32	31.31	0.853	0.852	NO	1723	86.2	4.11	
180	1... 13C-PCB-47	5.38e5	0.82	NO	0.857	5.000	31.85	31.83	0.867	0.866	NO	1762	88.1	3.85	
181	1... 13C-PCB-70	6.13e5	0.80	NO	0.996	5.000	35.47	35.46	0.965	0.965	NO	1730	86.5	3.32	
182	1... 13C-PCB-80	6.22e5	0.78	NO	1.03	5.000	35.91	35.88	0.977	0.977	NO	1700	85.0	3.21	
183	1... 13C-PCB-81	6.01e5	0.81	NO	0.988	5.000	39.10	39.08	1.064	1.064	NO	1709	85.5	3.34	
184	1... 13C-PCB-77	5.72e5	0.79	NO	0.969	5.000	39.72	39.70	1.081	1.081	NO	1658	82.9	3.41	
185	1... 13C-PCB-104	3.70e5	1.66	NO	1.02	5.000	32.49	32.50	0.827	0.827	NO	1748	87.4	1.81	
186	1... 13C-PCB-95	2.97e5	1.60	NO	0.805	5.000	35.75	35.75	0.910	0.910	NO	1767	88.4	2.29	
187	1... 13C-PCB-101	2.89e5	1.63	NO	0.793	5.000	37.50	37.50	0.954	0.954	NO	1750	87.5	2.33	
188	1... 13C-PCB-97	2.59e5	1.64	NO	0.696	5.000	38.84	38.84	0.988	0.988	NO	1782	89.1	2.65	
189	1... 13C-PCB-123	3.47e5	1.60	NO	0.933	5.000	41.50	41.50	1.056	1.056	NO	1784	89.2	1.98	
190	1... 13C-PCB-118	3.52e5	1.65	NO	0.986	5.000	41.69	41.69	1.061	1.061	NO	1712	85.6	1.87	
191	1... 13C-PCB-114	5.96e5	1.60	NO	1.55	5.000	42.35	42.37	0.908	0.908	NO	2033	102	2.53	
192	1... 13C-PCB-105	6.06e5	1.61	NO	1.57	5.000	43.26	43.26	0.927	0.927	NO	2033	102	2.49	
193	1... 13C-PCB-127	6.30e5	1.60	NO	1.62	5.000	43.60	43.60	0.935	0.935	NO	2045	102	2.41	
194	1... 13C-PCB-126	5.58e5	1.58	NO	1.57	5.000	45.55	45.57	0.976	0.977	NO	1875	93.8	2.50	
195	1... 13C-PCB-155	1.93e5	1.33	NO	0.615	5.000	37.04	37.04	0.942	0.942	NO	1505	75.2	0.915	
196	1... 13C-PCB-153	4.78e5	1.27	NO	1.36	5.000	43.41	43.43	0.930	0.931	NO	1849	92.4	1.99	
197	1... 13C-PCB-141	3.88e5	1.26	NO	1.13	5.000	44.19	44.19	0.947	0.947	NO	1814	90.7	2.41	
198	1... 13C-PCB-138	4.12e5	1.26	NO	1.18	5.000	45.04	45.06	0.965	0.966	NO	1832	91.6	2.29	
199	1... 13C-PCB-159	4.88e5	1.27	NO	1.44	5.000	46.38	46.38	0.994	0.994	NO	1789	89.5	1.89	
200	2... 13C-PCB-167	4.77e5	1.22	NO	1.44	5.000	47.08	47.08	1.009	1.009	NO	1745	87.2	1.89	
201	2... 13C-PCB-156	4.58e5	1.28	NO	1.40	5.000	48.41	48.41	1.038	1.038	NO	1728	86.4	1.94	
202	2... 13C-PCB-157	4.57e5	1.30	NO	1.40	5.000	48.70	48.69	1.044	1.044	NO	1724	86.2	1.94	
203	2... 13C-PCB-169	4.21e5	1.28	NO	1.33	5.000	50.97	50.97	1.093	1.093	NO	1667	83.3	2.04	
204	2... 13C-PCB-188	3.61e5	0.48	NO	1.41	5.000	43.03	43.03	0.926	0.926	NO	1811	90.6	2.03	
205	2... 13C-PCB-180	2.35e5	0.46	NO	0.929	5.000	49.74	49.74	1.070	1.070	NO	1794	89.7	3.08	
206	2... 13C-PCB-170	1.98e5	0.47	NO	0.794	5.000	51.40	51.40	1.106	1.106	NO	1762	88.1	3.61	
207	2... 13C-PCB-189	2.56e5	0.46	NO	1.04	5.000	53.11	53.11	1.143	1.143	NO	1736	86.8	2.74	
208	2... 13C-PCB-202	2.42e5	0.94	NO	1.04	5.000	48.64	48.64	1.046	1.046	NO	1653	82.7	1.57	
209	2... 13C-PCB-194	3.38e5	0.90	NO	0.768	5.000	54.70	54.72	0.995	0.995	NO	1765	88.3	2.08	
210	2... 13C-PCB-208	3.87e5	0.80	NO	0.991	5.000	53.94	53.96	0.981	0.981	NO	1564	78.2	1.72	
211	2... 13C-PCB-206	2.51e5	0.80	NO	0.552	5.000	56.24	56.26	1.023	1.023	NO	1821	91.0	3.08	
212	2... 13C-PCB-209	2.39e5	1.21	NO	0.396	5.000	57.49	57.49	1.046	1.046	NO	2415	121	0.834	

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-4.qld

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Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	1.25e6	1.61	NO	1.00	5.000	25.58	25.57	1.000	0.000	NO	2000	100	0.824	
214	2... 13C-PCB-31	1.12e6	1.07	NO	1.00	5.000	28.72	28.70	1.000	0.000	NO	2000	100	7.27	
215	2... 13C-PCB-60	7.12e5	0.80	NO	1.00	5.000	36.74	36.74	1.000	0.000	NO	2000	100	3.30	
216	2... 13C-PCB-111	4.17e5	1.64	NO	1.00	5.000	39.33	39.31	1.000	0.000	NO	2000	100	1.84	
217	2... 13C-PCB-128	3.79e5	1.29	NO	1.00	5.000	46.67	46.65	1.000	0.000	NO	2000	100	2.72	
218	2... 13C-PCB-182	2.82e5	0.45	NO	1.00	5.000	46.50	46.48	0.000	0.000	NO	2000	100	2.86	
219	2... 13C-PCB-205	4.99e5	0.91	NO	1.00	5.000	55.01	54.98	1.000	0.000	NO	2000	100	1.60	
220	2... 13C-PCB-79	6.62e5	0.80	NO	1.07	5.000	37.84	37.84	1.030	1.030	NO	1740	87.0	3.09	
221	2... 13C-PCB-178	2.39e5	0.47	NO	0.766	5.000	45.93	45.93	0.988	0.988	NO	1644	82.2	2.90	
222	2... 13C-PCB-79	6.62e5	0.80	NO	1.08	5.000	37.82	37.84	0.968	0.968	NO	2036	102	3.66	
223	2... 13C-PCB-178	2.39e5	0.47	NO	1.05	5.000	45.93	45.93	0.923	0.923	NO	1933	96.6	3.40	
224	2... Total Mono-PCBs				1.17	5.000	0.00		0.000		NO			1.27	0.433
225	2... Total Di-PCBs				1.05	5.000	0.00		0.000		NO			1.24	2.00
226	2... 2nd Function Tri-PCBs				1.08	5.000	0.00		0.000		NO			1.87	
227	2... 3rd Function Tri-PCBs				0.983	5.000	0.00		0.000		NO			9.29	0.970
228	2... Total Tetra-PCBs				1.08	5.000	0.00		0.000		NO			1.79	0.844
229	2... 3rd Function Penta-PCBs				1.32	5.000	0.00		0.000		NO			15.2	
230	2... 4th Function Penta-PCBs				1.07	5.000	0.00		0.000		NO			2.02	0.729
231	2... 3rd Function Hexa-PCBs				0.951	5.000	0.00		0.000		NO	0.0000		6.96	0.7307
232	2... 4th Function Hexa-PCBs				1.03	5.000	0.00		0.000		NO			7.42	0.579
233	2... Total Hepta-PCBs				1.36	5.000	0.00		0.000		NO			18.3	
234	2... 4th Function Octa-PCBs				1.00	5.000	0.00		0.000		NO			20.5	
235	2... 5th Function Octa-PCBs				1.15	5.000	0.00		0.000		NO	0.0000		1.05	0.6735
236	2... Total Nona-PCBs				0.952	5.000	0.00		0.000		NO			1.74	6.455
237	2... Deca-CB				0.986	5.000	0.00		0.000		NO			0.606	
238	2... Total PCBs														

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Dataset: U:\VG11.PRO\Results\201026K1\201026K1-4.qld

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

**Total Mono-PCBs**

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

**Total Di-PCBs**

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

**2nd Function Tri-PCBs**

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

**3rd Function Tri-PCBs**

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

**Total Tetra-PCBs**

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

**3rd Function Penta-PCBs**

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

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**ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank**

**4th Function Penta-PCBs**

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

**3rd Function Hexa-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-139/149	41.68	41.63	4.790e2	8.490e2	3.696e1	6.013e1	0.61	YES	9.709e1	0.00000	0.73074	0.481

**4th Function Hexa-PCBs**

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

**Total Hepta-PCBs**

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

**4th Function Octa-PCBs**

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

**5th Function Octa-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-194	54.74	54.74	1.810e3	1.416e3	9.014e1	6.726e1	1.34	YES	1.574e2	0.00000	0.67348	0.357

**Total Nona-PCBs**

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



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Dataset: U:\VG11.PRO\Results\201026K1\201026K1-4.qld

Last Altered: Monday, October 26, 2020 14:29:29 Pacific Daylight Time

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**ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank**

**Deca-CB**

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

**Total PCBs**

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

**Total Mono-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-1	15.57	15.55	7.777e6	2.442e6	4.831e5	1.498e5	3.22	NO	6.329e5	1137.7		1.92
2	13C-PCB-3	18.21	18.20	8.174e6	2.451e6	5.230e5	1.551e5	3.37	NO	6.781e5	1195.6		1.89

**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-4	19.58	19.56	5.582e6	3.473e6	3.518e5	2.178e5	1.62	NO	5.697e5	1525.0		1.37
2	13C-PCB-9	21.39	21.39	9.197e6	5.767e6	5.821e5	3.620e5	1.61	NO	9.441e5	1563.8		0.850
3	13C-PCB-11	24.85	24.85	9.160e6	5.657e6	5.968e5	3.680e5	1.62	NO	9.648e5	1611.5		0.857
4	13C-PCB-15	25.58	25.57	1.143e7	7.125e6	7.676e5	4.776e5	1.61	NO	1.245e6	2000.0		0.824

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-19	23.81	23.80	3.407e6	3.175e6	2.175e5	2.032e5	1.07	NO	4.207e5	1354.5		10.6
2	13C-PCB-32	26.80	26.80	5.044e6	4.714e6	3.290e5	3.065e5	1.07	NO	6.355e5	1371.6		7.12

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.72	28.70	7.805e6	7.292e6	5.774e5	5.384e5	1.07	NO	1.116e6	2000.0		7.27
2	13C-PCB-28	28.81	28.81	6.613e6	6.214e6	4.957e5	4.686e5	1.06	NO	9.642e5	1624.0		6.83
3	13C-PCB-37	32.79	32.81	5.738e6	5.497e6	4.570e5	4.347e5	1.05	NO	8.917e5	1615.9		7.35

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**ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank**

**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.65	27.64	3.417e6	4.447e6	2.595e5	3.292e5	0.79	NO	5.887e5	1654.2		3.31
2	13C-PCB-52	31.32	31.31	2.986e6	3.609e6	2.229e5	2.707e5	0.82	NO	4.936e5	1723.5		4.11
3	13C-PCB-47	31.85	31.83	3.167e6	3.886e6	2.427e5	2.951e5	0.82	NO	5.378e5	1761.8		3.85
4	13C-PCB-70	35.47	35.46	3.634e6	4.466e6	2.735e5	3.399e5	0.80	NO	6.133e5	1729.8		3.32
5	13C-PCB-80	35.91	35.88	3.427e6	4.434e6	2.719e5	3.506e5	0.78	NO	6.224e5	1700.1		3.21
6	13C-PCB-60	36.74	36.74	4.001e6	4.947e6	3.165e5	3.957e5	0.80	NO	7.122e5	2000.0		3.30
7	13C-PCB-79	37.84	37.84	3.776e6	4.674e6	2.945e5	3.678e5	0.80	NO	6.624e5	1740.2		3.09
8	13C-PCB-81	39.10	39.08	3.353e6	4.170e6	2.683e5	3.331e5	0.81	NO	6.014e5	1709.4		3.34
9	13C-PCB-77	39.72	39.70	3.201e6	4.029e6	2.533e5	3.188e5	0.79	NO	5.721e5	1658.4		3.41

**3rd Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.49	32.50	3.035e6	1.843e6	2.313e5	1.392e5	1.66	NO	3.705e5	1748.4		1.81
2	13C-PCB-95	35.75	35.75	2.300e6	1.472e6	1.827e5	1.139e5	1.60	NO	2.966e5	1767.1		2.29
3	13C-PCB-101	37.50	37.50	2.357e6	1.439e6	1.793e5	1.099e5	1.63	NO	2.892e5	1750.2		2.33
4	13C-PCB-97	38.84	38.84	2.074e6	1.277e6	1.606e5	9.809e4	1.64	NO	2.587e5	1781.8		2.65
5	13C-PCB-111	39.33	39.31	3.385e6	2.043e6	2.591e5	1.578e5	1.64	NO	4.169e5	2000.0		1.84
6	13C-PCB-123	41.50	41.50	2.787e6	1.740e6	2.138e5	1.332e5	1.60	NO	3.470e5	1784.4		1.98
7	13C-PCB-118	41.69	41.69	2.902e6	1.750e6	2.189e5	1.329e5	1.65	NO	3.518e5	1712.2		1.87

**4th Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.35	42.37	4.651e6	2.904e6	3.671e5	2.291e5	1.60	NO	5.962e5	2032.9		2.53
2	13C-PCB-105	43.26	43.26	4.736e6	2.941e6	3.744e5	2.318e5	1.61	NO	6.062e5	2033.0		2.49
3	13C-PCB-127	43.60	43.60	4.870e6	3.024e6	3.882e5	2.420e5	1.60	NO	6.302e5	2045.4		2.41
4	13C-PCB-126	45.55	45.57	4.259e6	2.694e6	3.415e5	2.161e5	1.58	NO	5.575e5	1875.2		2.50

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**4th Function Hexa-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.41	43.43	3.452e6	2.724e6	2.676e5	2.109e5	1.27	NO	4.784e5	1848.5		1.99
2	13C-PCB-141	44.19	44.19	2.781e6	2.234e6	2.160e5	1.719e5	1.26	NO	3.879e5	1813.8		2.41
3	13C-PCB-138	45.04	45.06	2.870e6	2.293e6	2.292e5	1.824e5	1.26	NO	4.116e5	1832.3		2.29
4	13C-PCB-159	46.38	46.38	3.529e6	2.771e6	2.732e5	2.152e5	1.27	NO	4.883e5	1789.1		1.89
5	13C-PCB-128	46.67	46.65	2.712e6	2.102e6	2.137e5	1.656e5	1.29	NO	3.793e5	2000.0		2.72
6	13C-PCB-167	47.08	47.08	3.419e6	2.783e6	2.622e5	2.143e5	1.22	NO	4.765e5	1744.9		1.89
7	13C-PCB-156	48.41	48.41	3.239e6	2.524e6	2.571e5	2.007e5	1.28	NO	4.578e5	1728.2		1.94
8	13C-PCB-157	48.70	48.69	3.294e6	2.521e6	2.582e5	1.984e5	1.30	NO	4.566e5	1723.5		1.94
9	13C-PCB-169	50.97	50.97	2.954e6	2.287e6	2.364e5	1.844e5	1.28	NO	4.208e5	1666.8		2.04

**5th Function Octa-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-194	54.70	54.72	2.795e6	3.068e6	1.602e5	1.781e5	0.90	NO	3.383e5	1765.2		2.08
2	13C-PCB-205	55.01	54.98	4.399e6	4.857e6	2.378e5	2.612e5	0.91	NO	4.990e5	2000.0		1.60

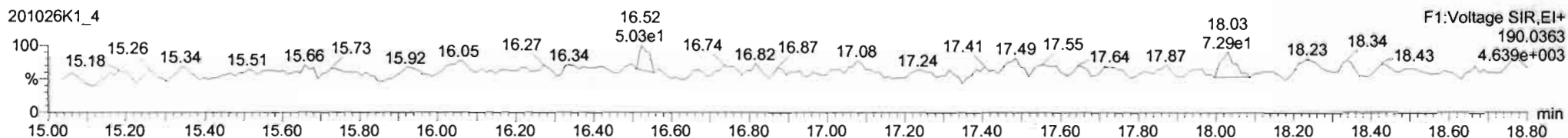
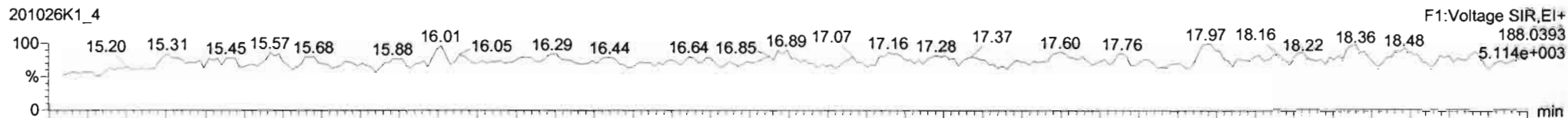
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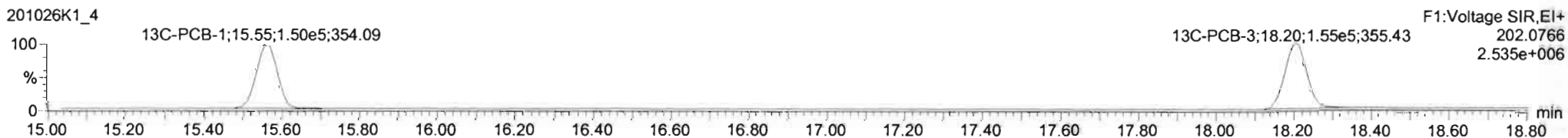
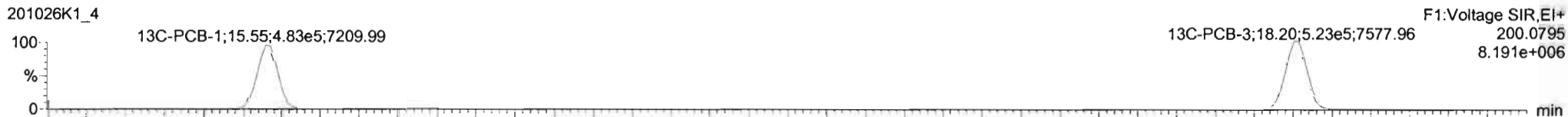
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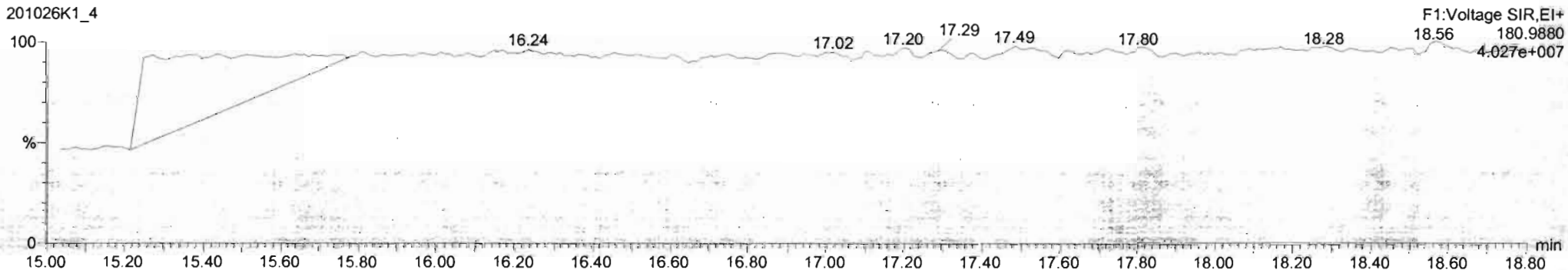
**PCB-1**



**13C-PCB-1**



**PFK1**

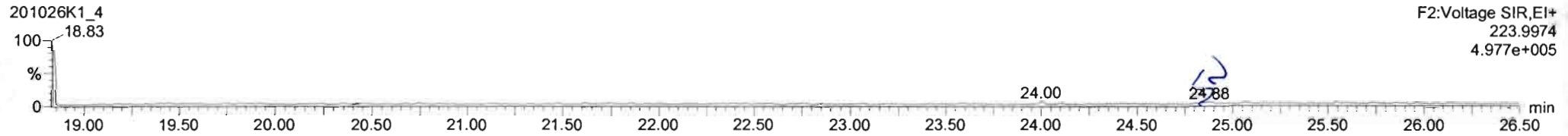
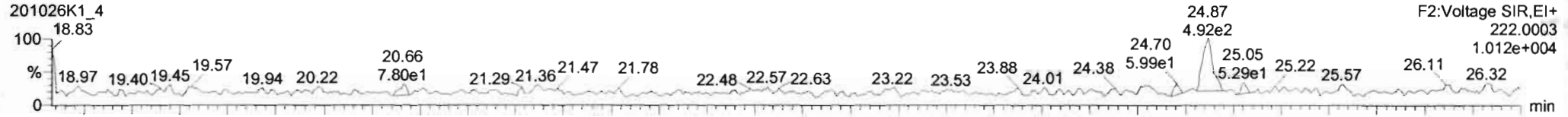


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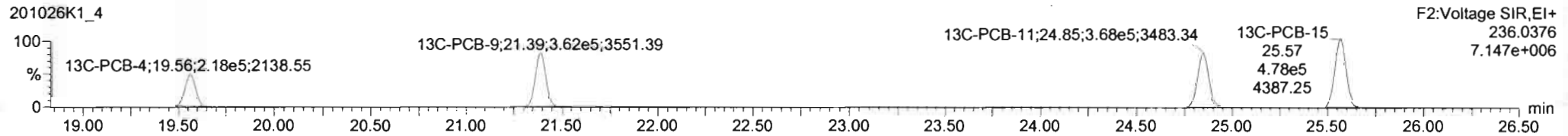
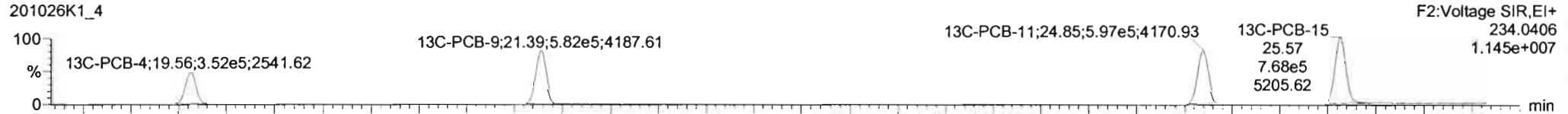
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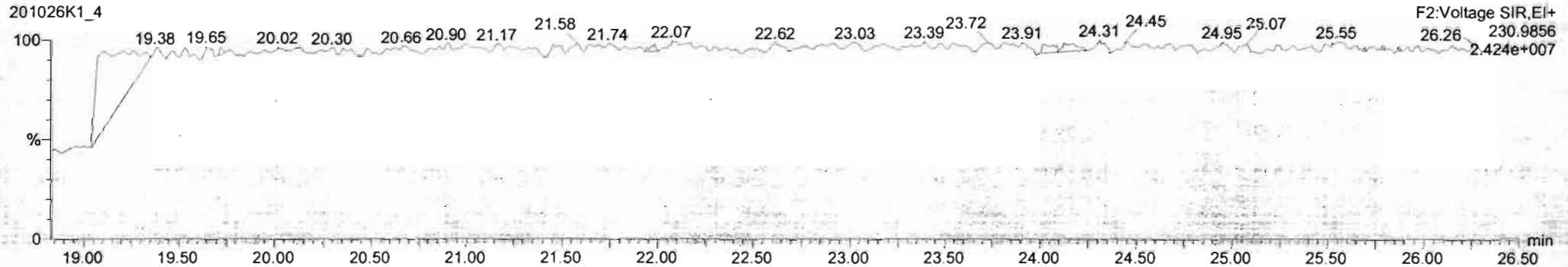
**PCB-4/10**



**13C-PCB-4**



**PFK2a**

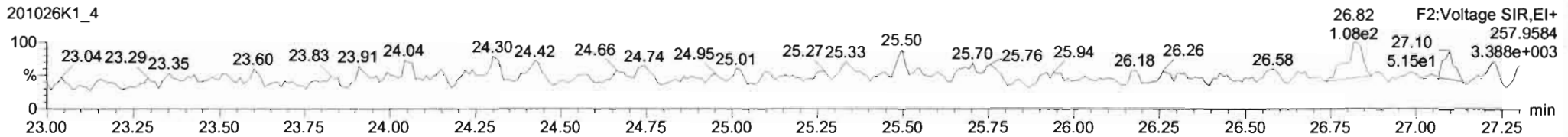
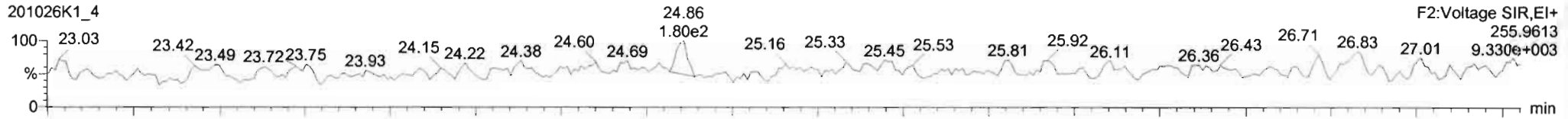


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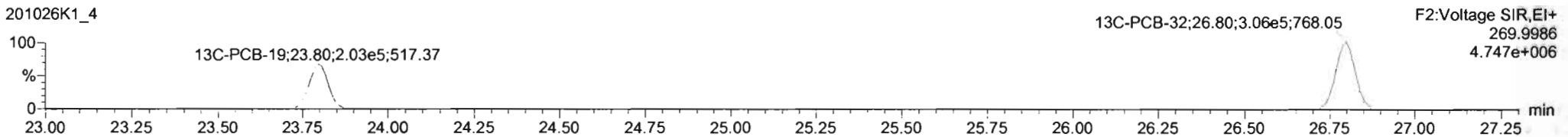
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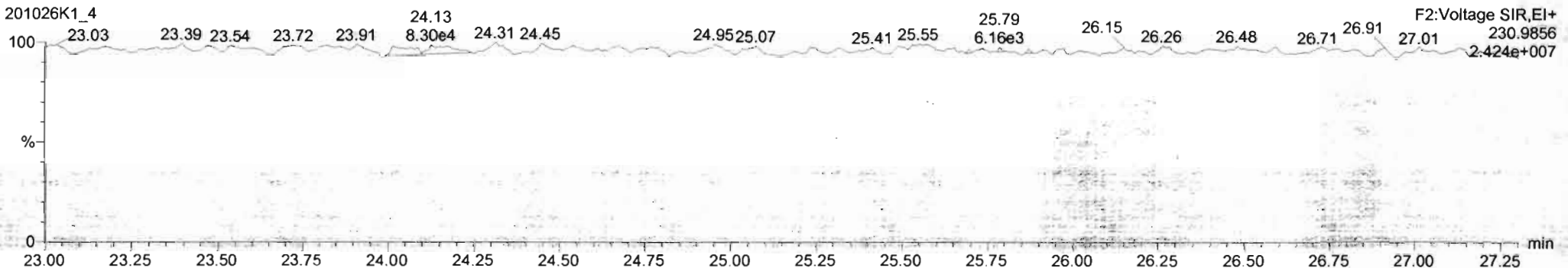
**PCB-19**



**13C-PCB-19**



**PFK2b**



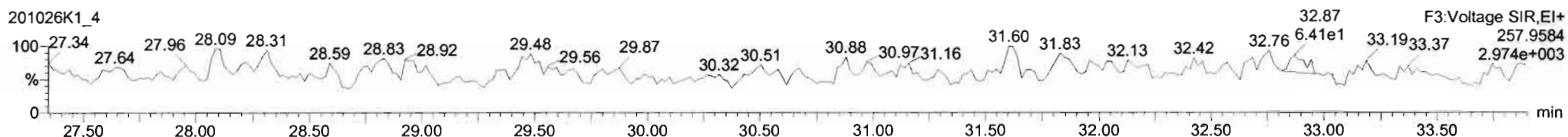
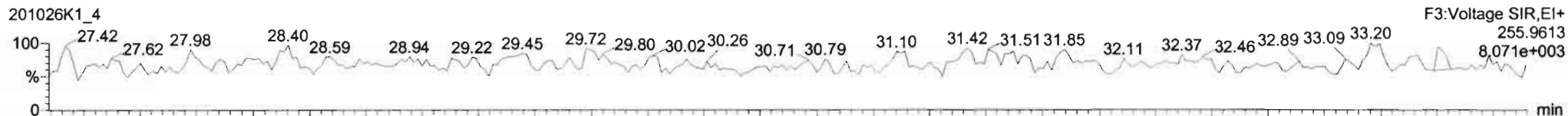
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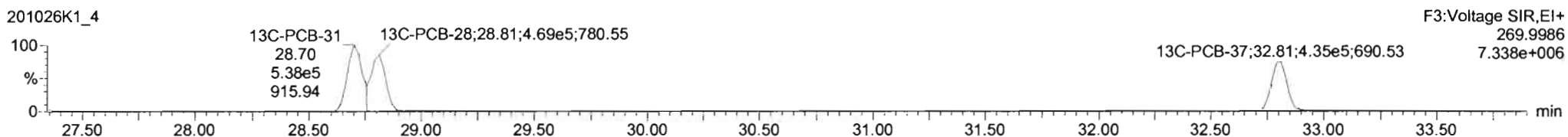
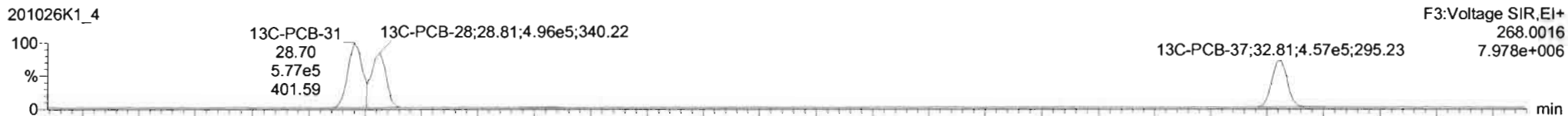
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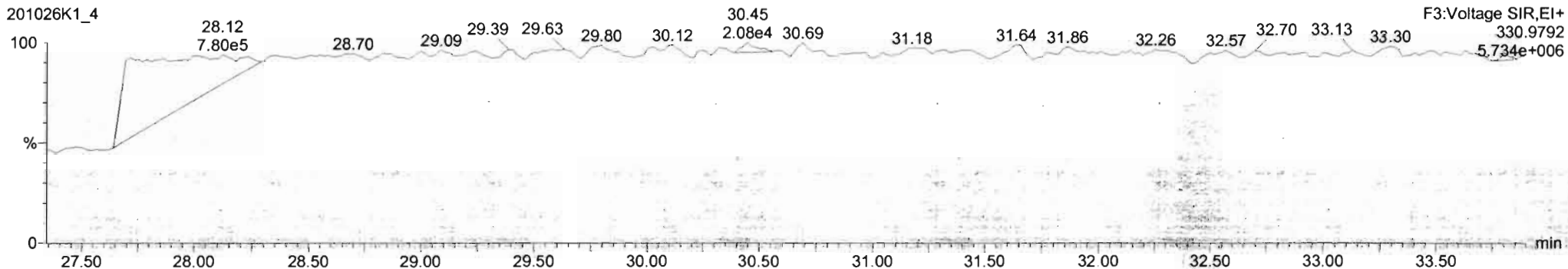
**PCB-34**



**13C-PCB-28**



**PFK3d**



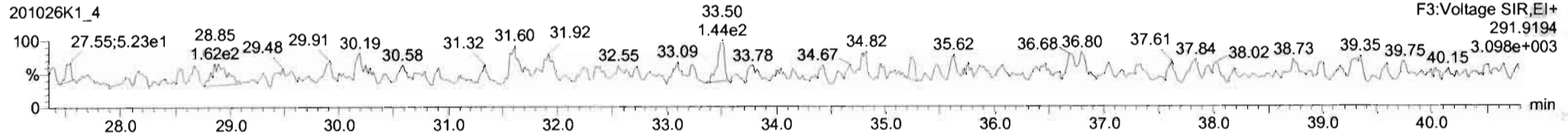
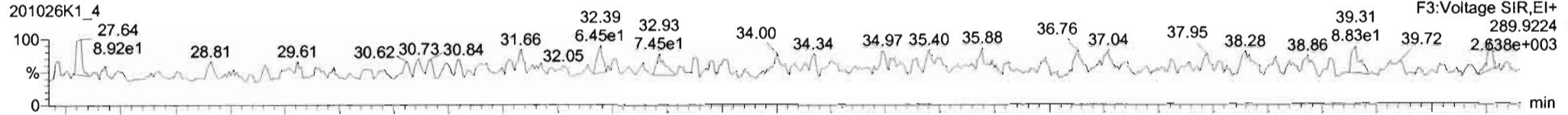
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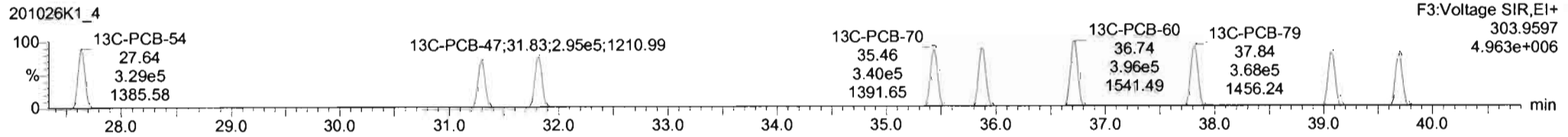
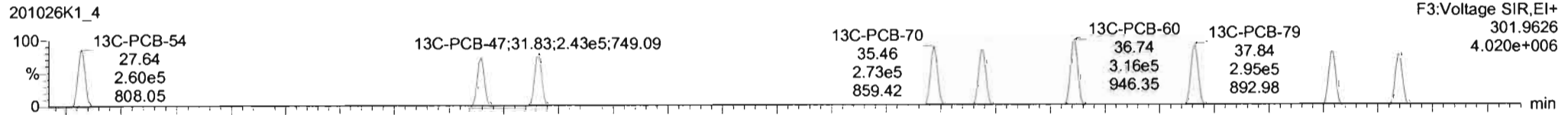
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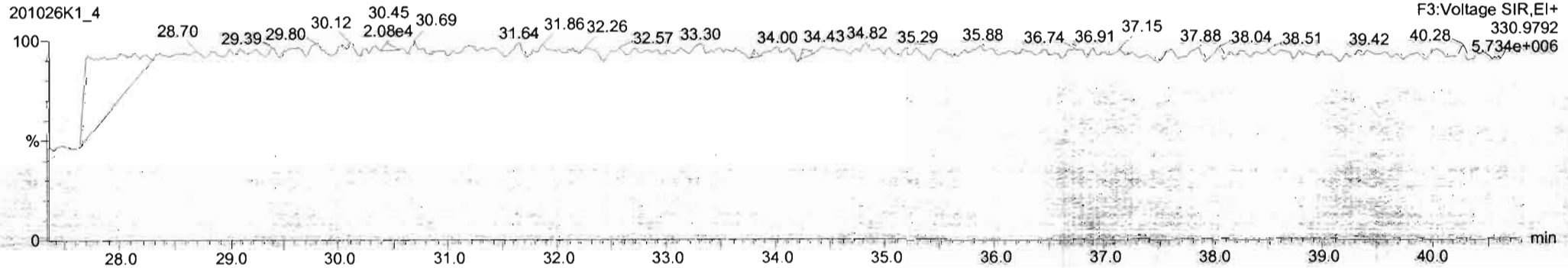
**PCB-54**



**13C-PCB-54**



**PFK3a**



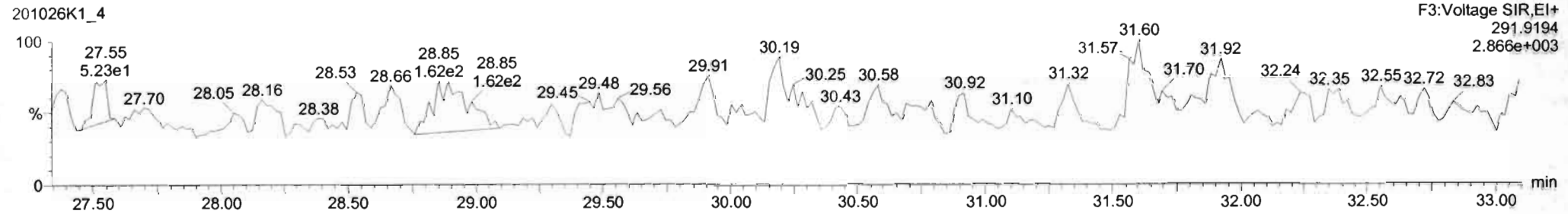
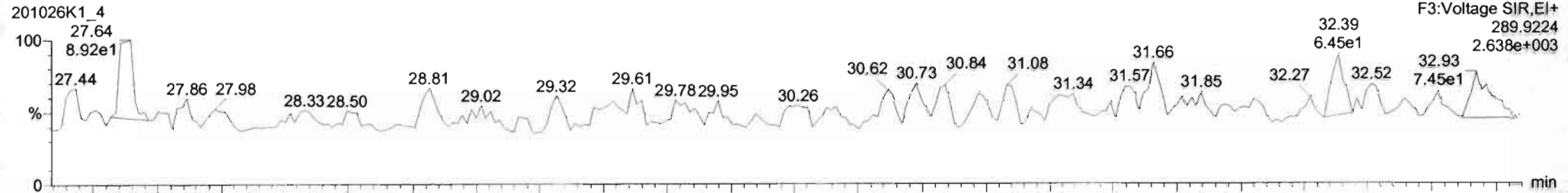


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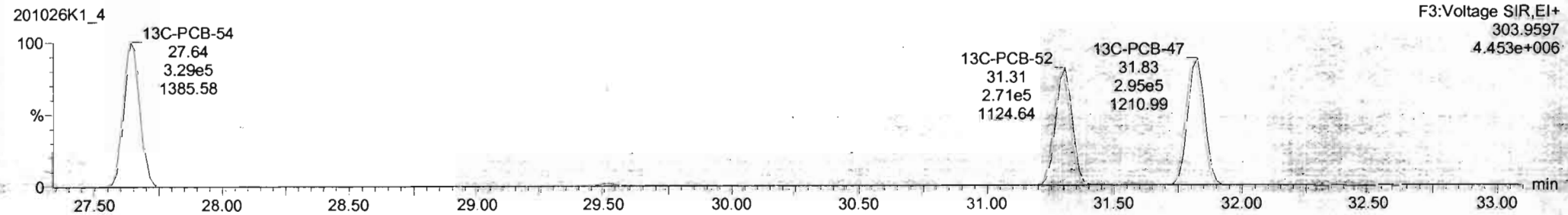
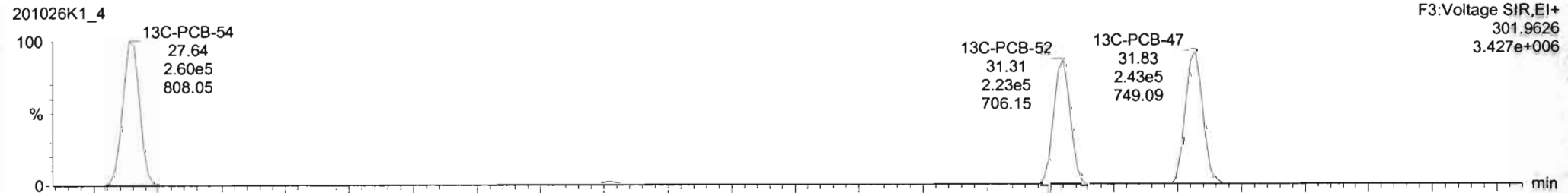
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**PCB-50**



**13C-PCB-52**



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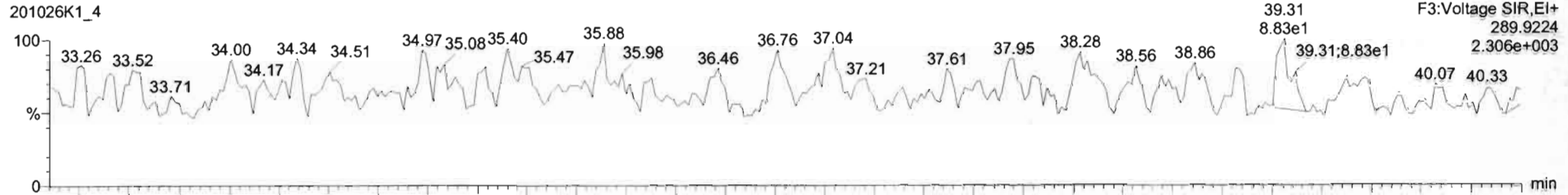
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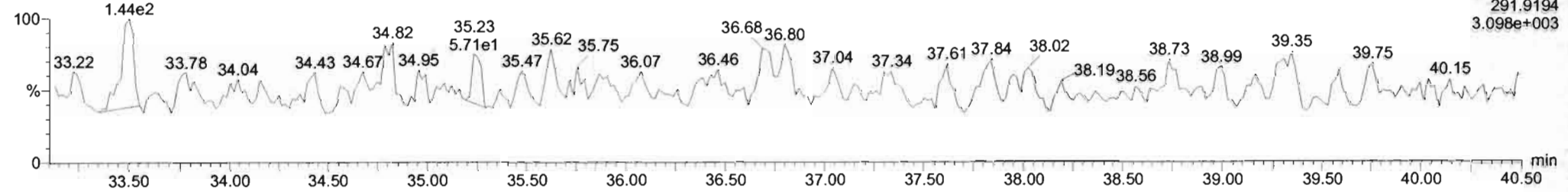
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**PCB-68**

201026K1\_4

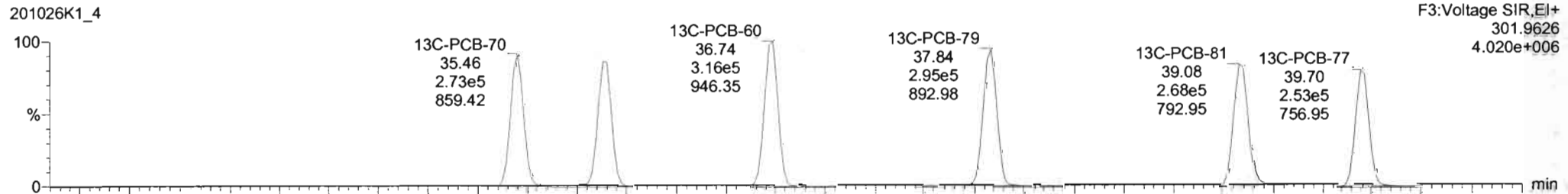


201026K1\_4

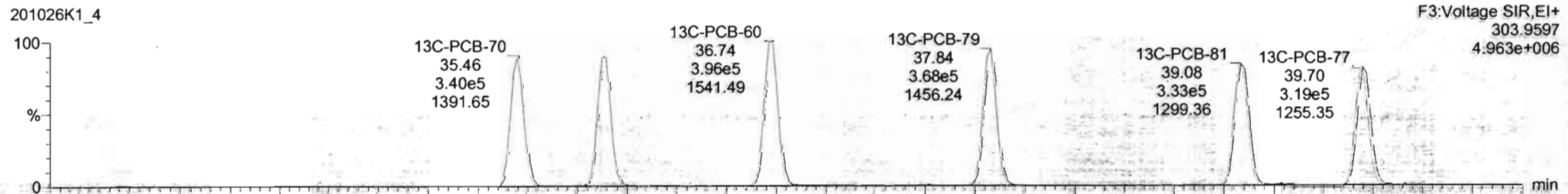


**13C-PCB-60**

201026K1\_4



201026K1\_4



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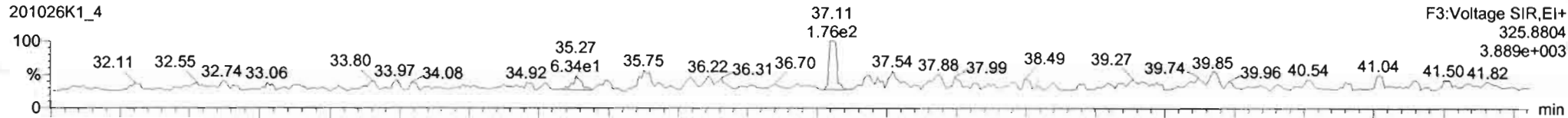
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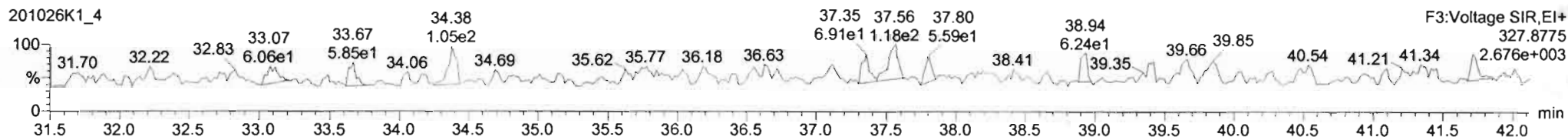
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### PCB-104

201026K1\_4

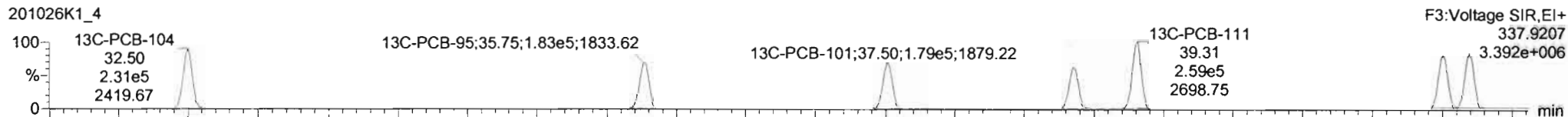


201026K1\_4

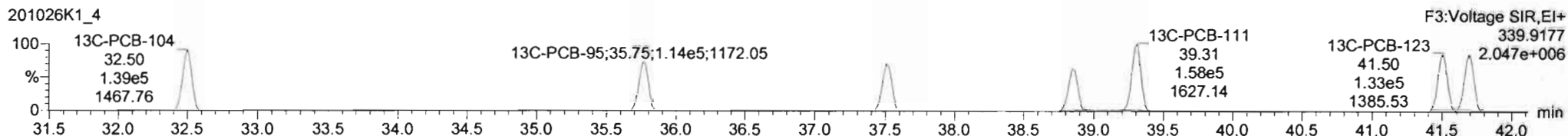


### 13C-PCB-104

201026K1\_4

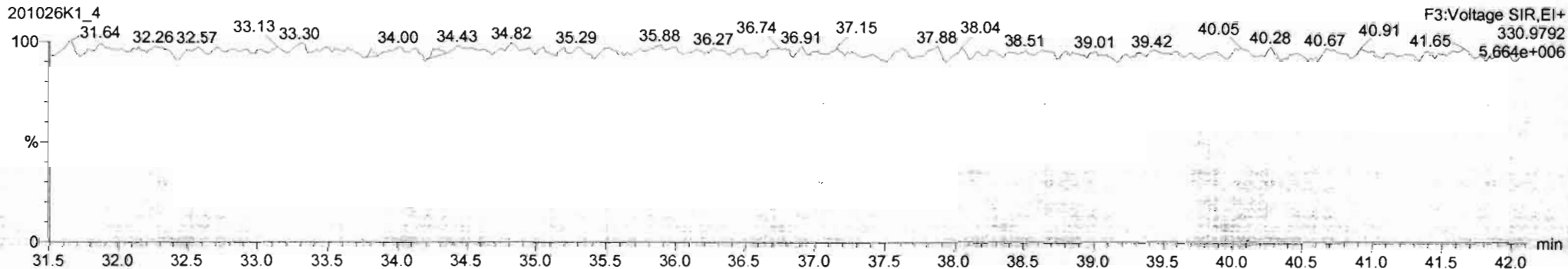


201026K1\_4



### PFK3b

201026K1\_4



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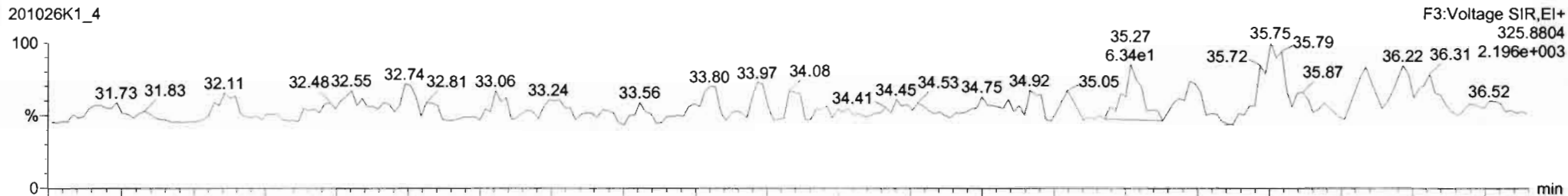
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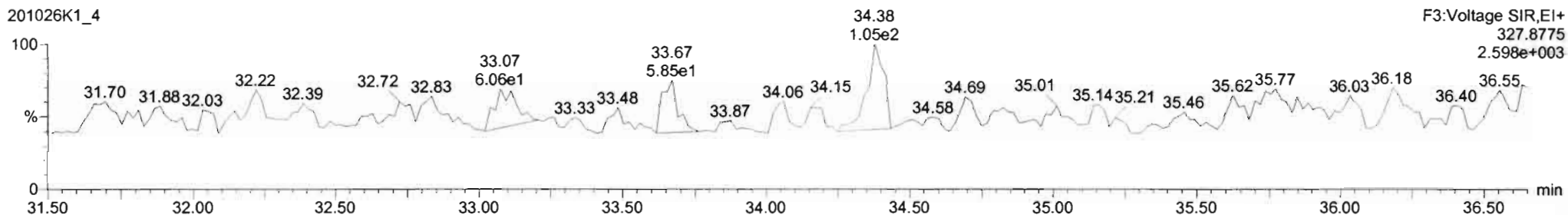
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**PCB-96**

201026K1\_4

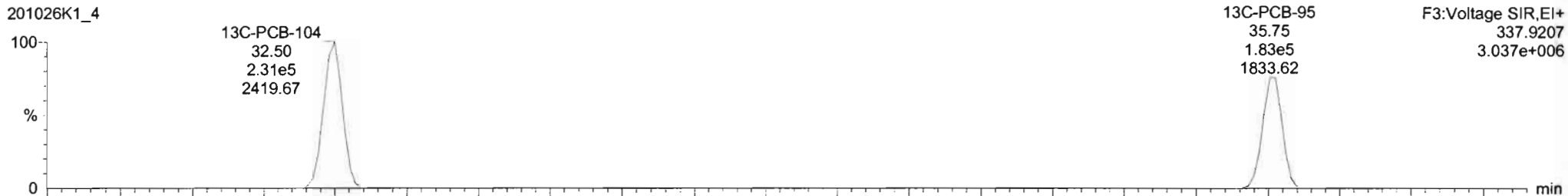


201026K1\_4

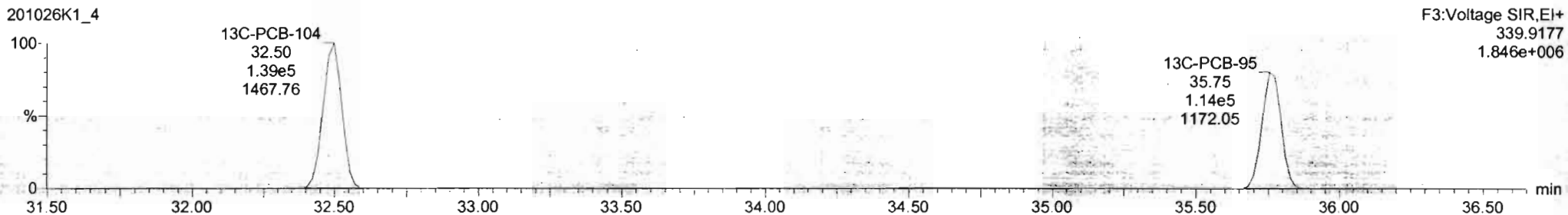


**13C-PCB-95**

201026K1\_4



201026K1\_4

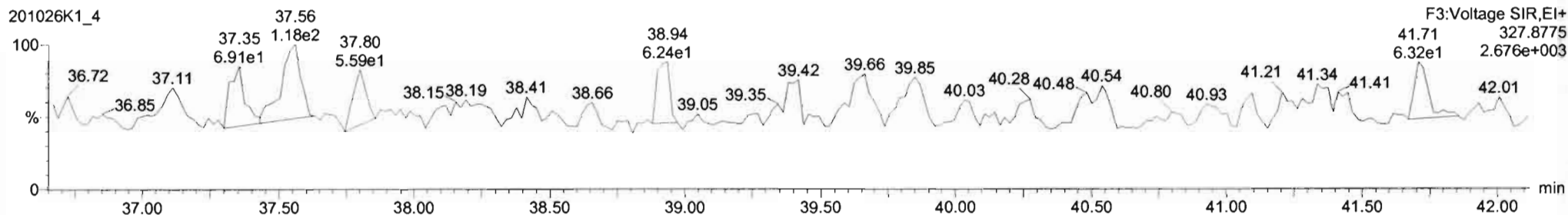
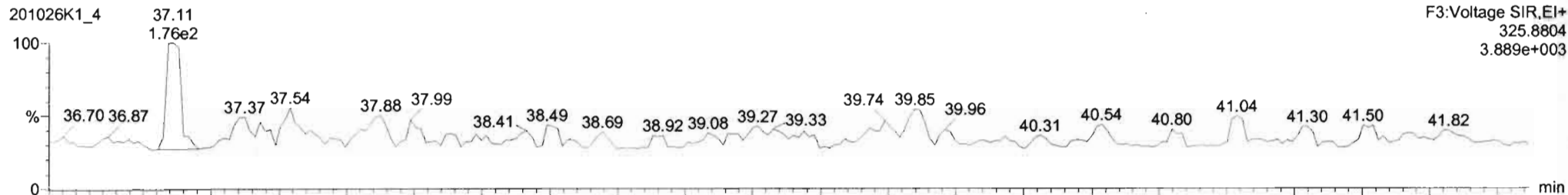


Dataset: Untitled

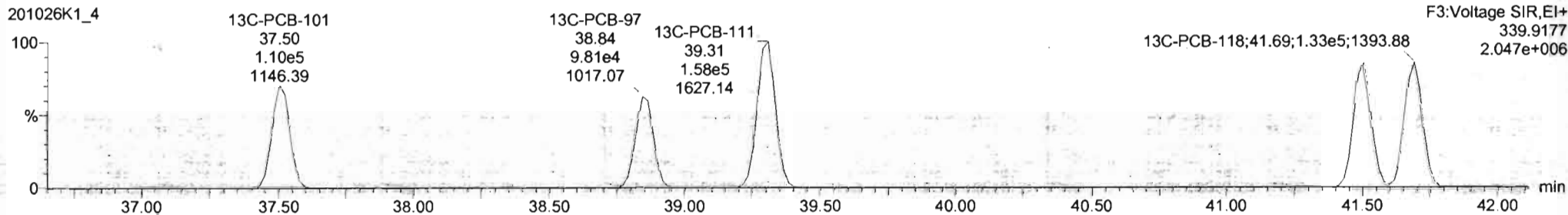
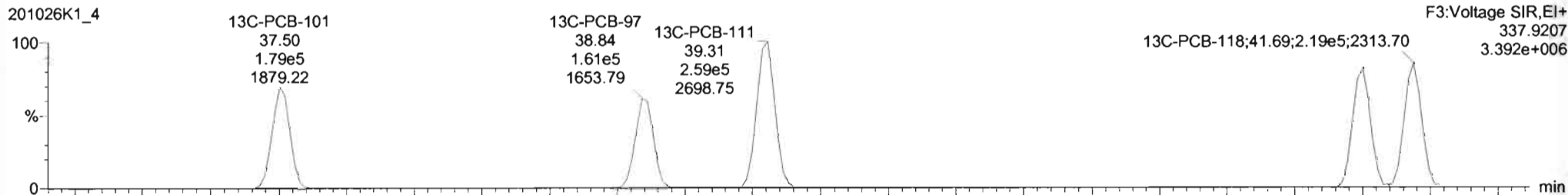
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time  
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

**PCB-119**



**13C-PCB-111**



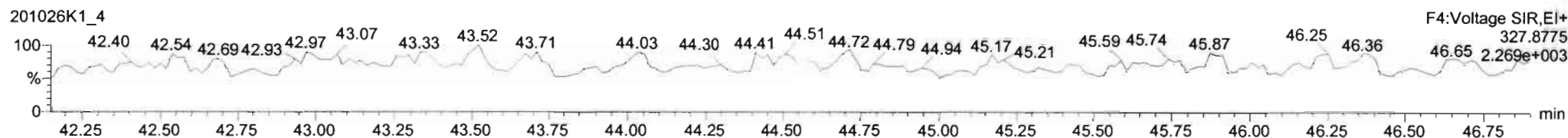
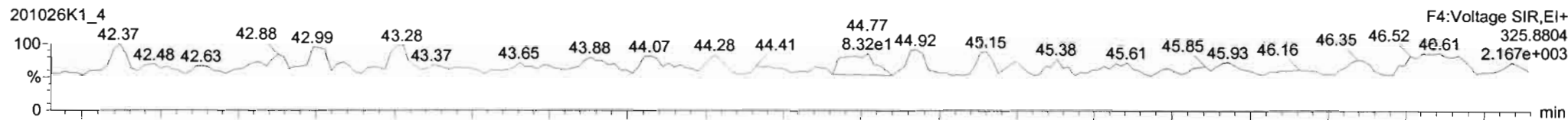
Dataset: Untitled

Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

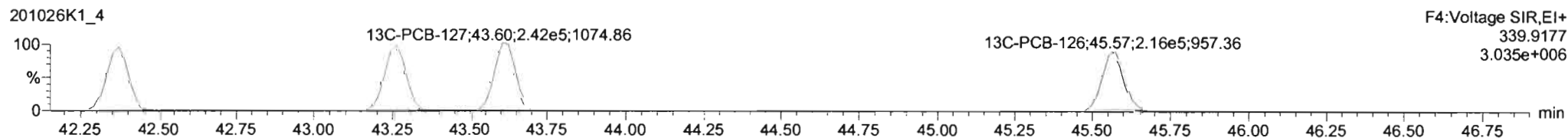
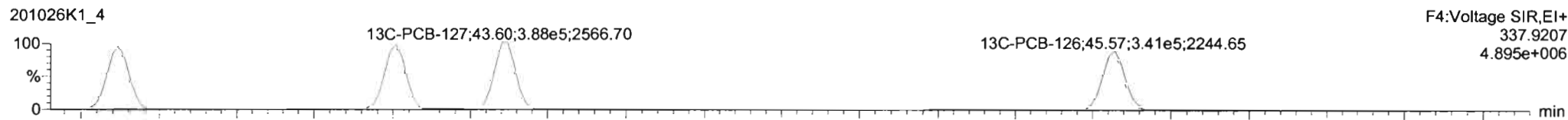
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

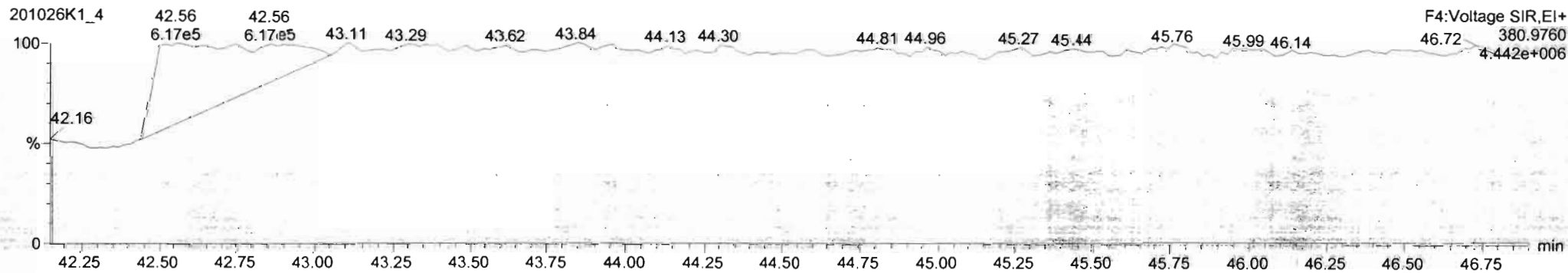
**PCB-114**



**13C-PCB-114**



**PFK4a**



Dataset: Untitled

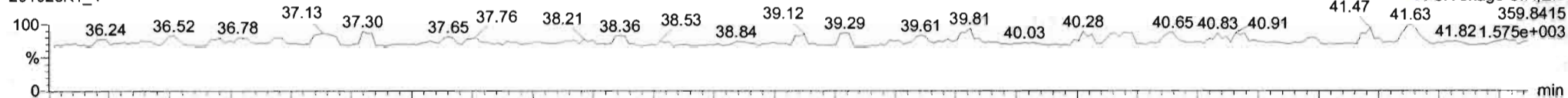
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

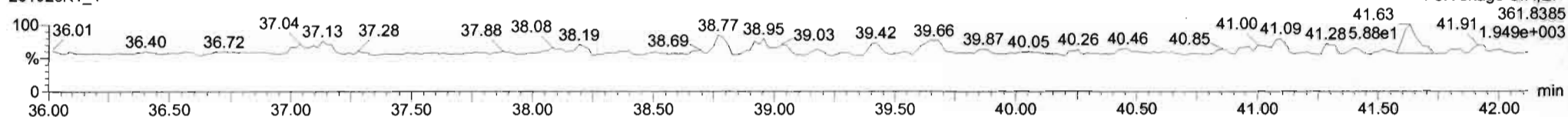
Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

**PCB-155**

201026K1\_4

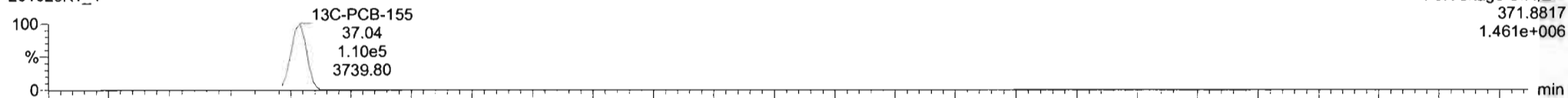


201026K1\_4

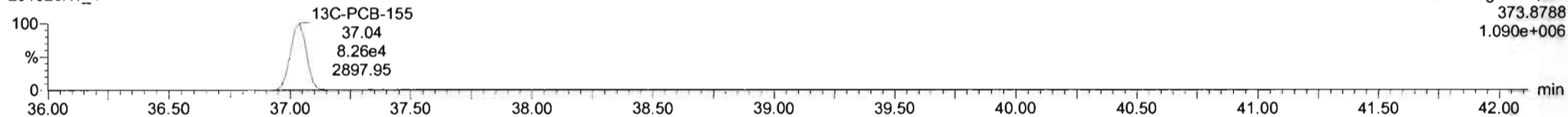


**13C-PCB-155**

201026K1\_4

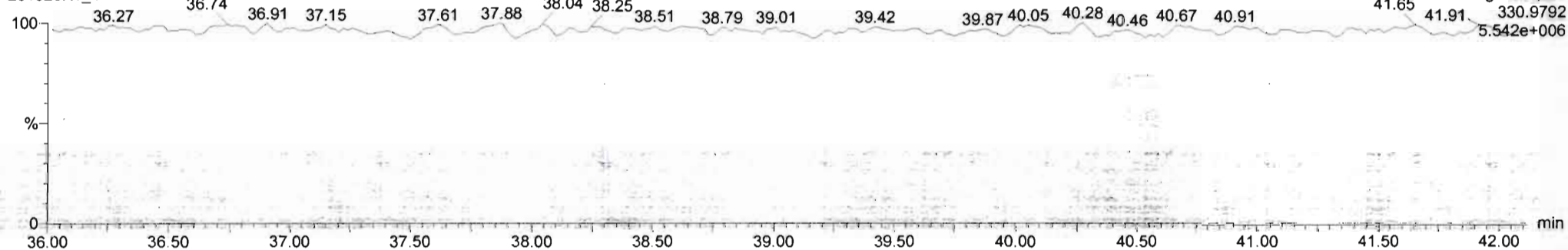


201026K1\_4



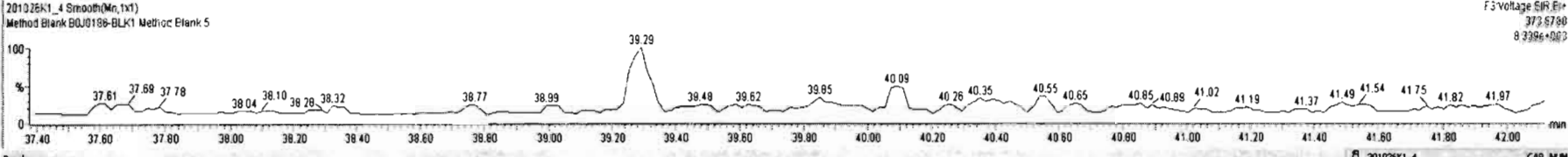
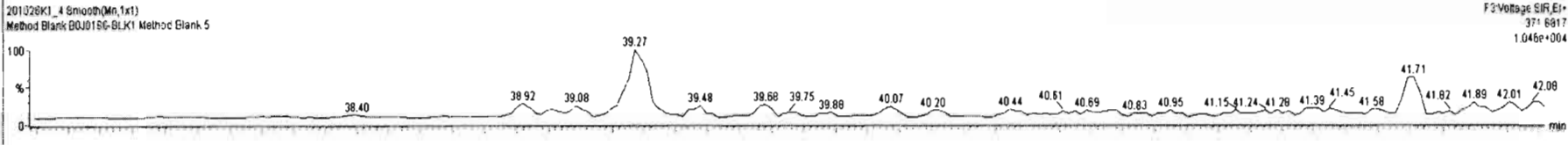
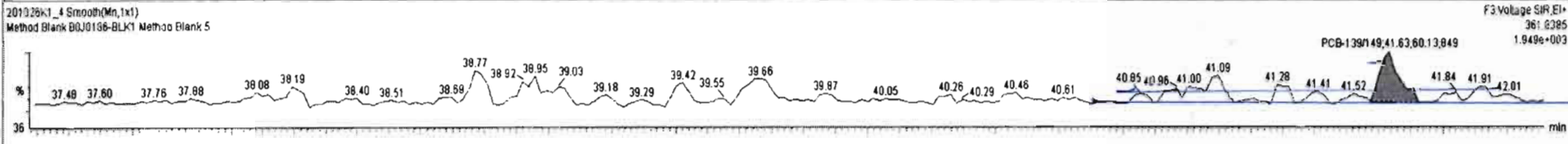
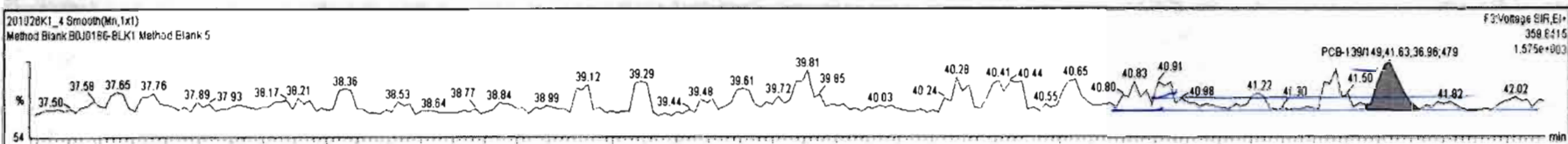
**PFK3c**

201026K1\_4



#	Name	Resp	RA	n/y	RRF	wAol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
226	226 2nd Function Tri-PCBs				1.0807	5.000	0.00		0.000		NO			4.87	
227	227 3rd Function Tri-PCBs				0.9828	5.000	0.00		0.000		NO			9.29	
228	228 Total Tetra-PCBs				1.0778	5.000	0.00		0.000		NO			14.9	
229	229 3rd Function Penta-PCBs				1.3157	5.000	0.00		0.000		NO			15.2	
230	230 4th Function Penta-PCBs				1.0735	5.000	0.00		0.000		NO			2.02	
231	231 3rd Function Hexa-PCBs				0.9505	5.000	0.00		0.000		NO	0.0000		6.38	0.7307
232	232 4th Function Hexa-PCBs				1.0316	5.000	0.00		0.000		NO			7.42	
233	233 Total Hepta-PCBs				1.3551	5.000	0.00		0.000		NO	0.8535		10.3	0.8535
234	234 4th Function Octa-PCBs				1.0008	5.000	0.00		0.000		NO			2.95	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	109 PCB-139/49	41.68	41.63	3.696e1	6.013e1	1.240	0.61	YES	0.73074	0.00000

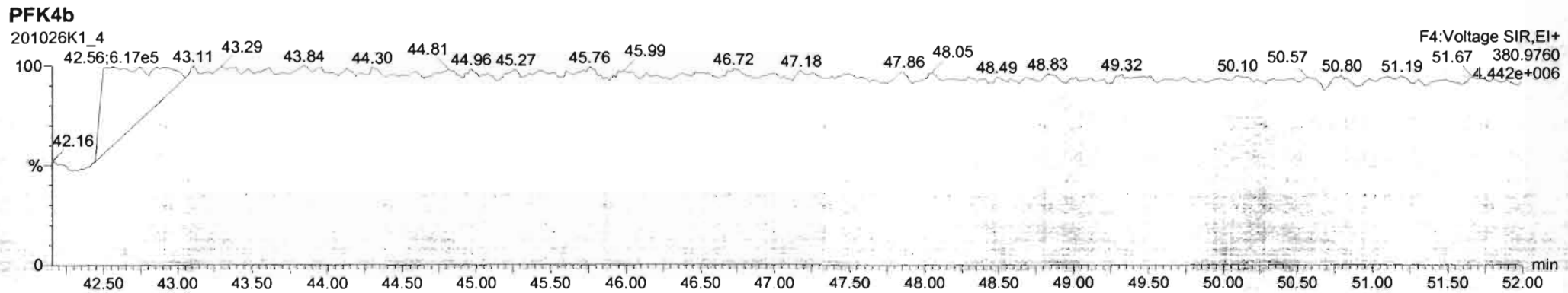
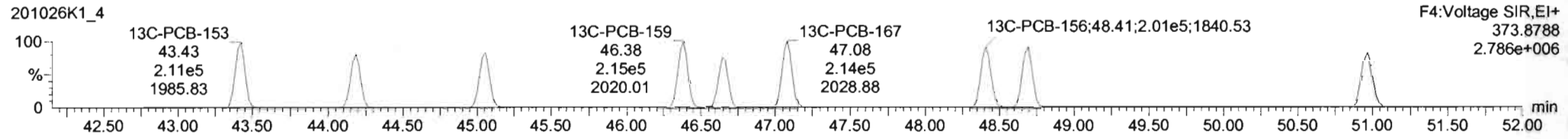
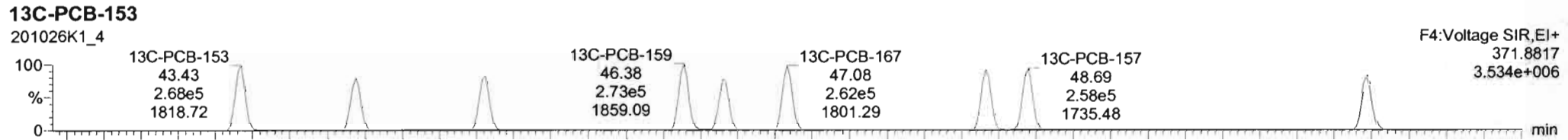
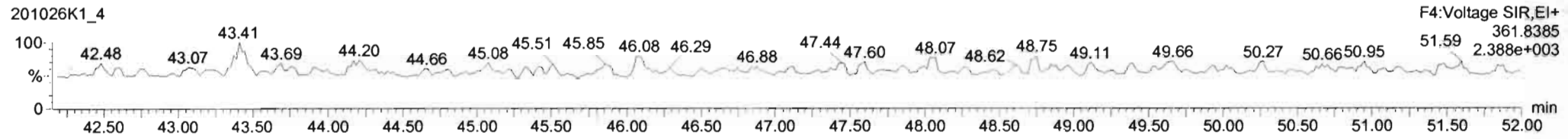
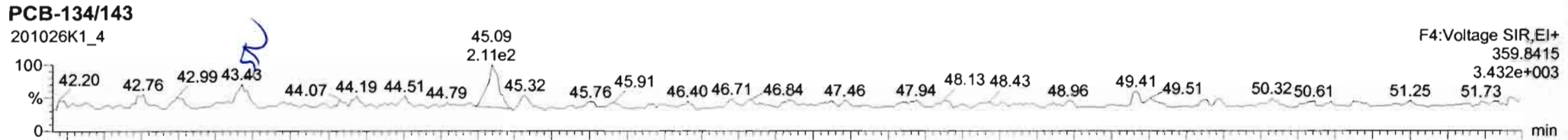




Dataset: Untitled

Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time  
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

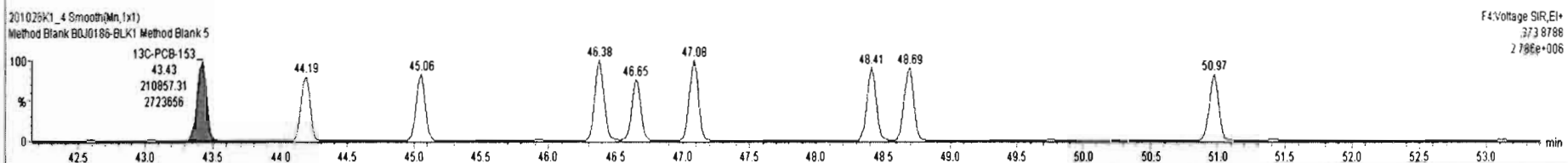
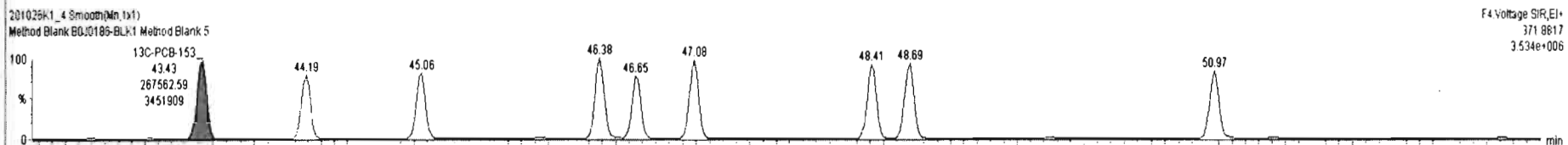
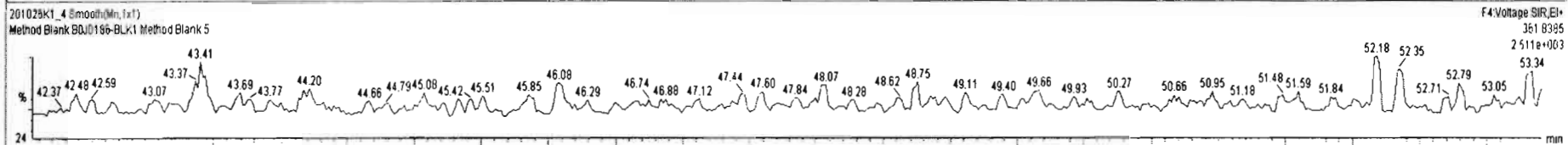
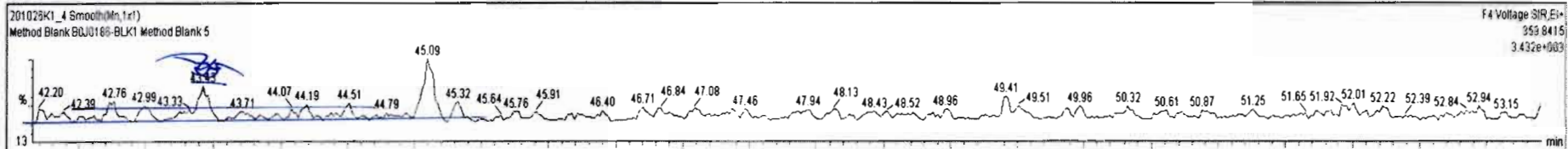




201026K1\_4 - B0J0186-BLK1 Method Blank 5 - Method Blank

#	Name	Resp	RA	nly	RPF	wAvol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
226	2nd Function Tri-PCBs				1.0807	5.000	0.00		0.000		NO			4.87	
227	3rd Function Tri-PCBs				0.9828	5.000	0.00		0.000		NO			9.29	
228	Total Tetra-PCBs				1.0778	5.000	0.00		0.000		NO			14.9	
229	3rd Function Penta-PCBs				1.3157	5.000	0.00		0.000		NO			15.2	
230	4th Function Penta-PCBs				1.0735	5.000	0.00		0.000		NO			2.02	
231	3rd Function Hexa-PCBs				0.9505	5.000	0.00		0.000		NO	0.0000		6.36	0.7307
232	4th Function Hexa-PCBs				1.0316	5.000	0.00		0.000		NO			7.42	
233	Total Hepta-PCBs				1.3551	5.000	0.00		0.000		NO	0.8535		10.3	0.8535
234	4th Function Octa-PCBs				1.0008	5.000	0.00		0.000		NO			2.95	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1										



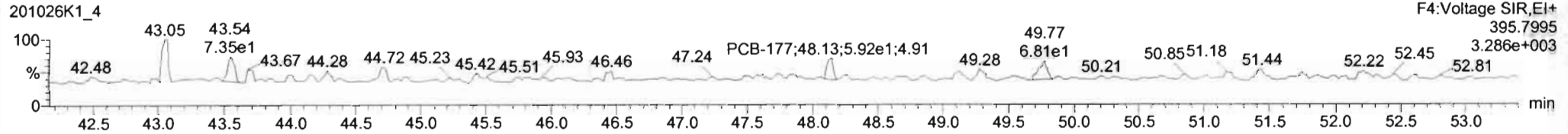
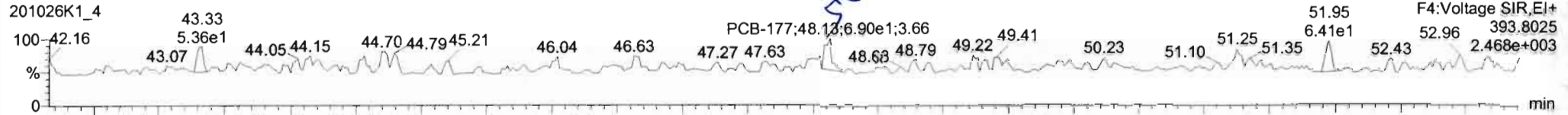
Dataset: Untitled

Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

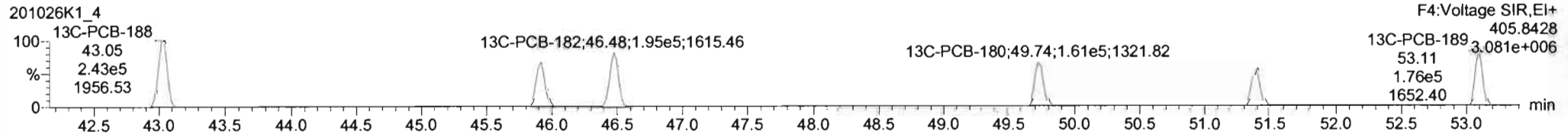
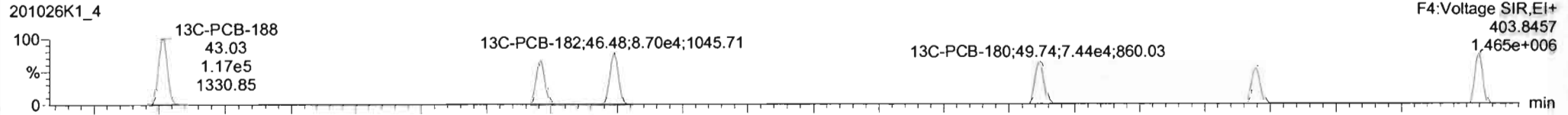
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

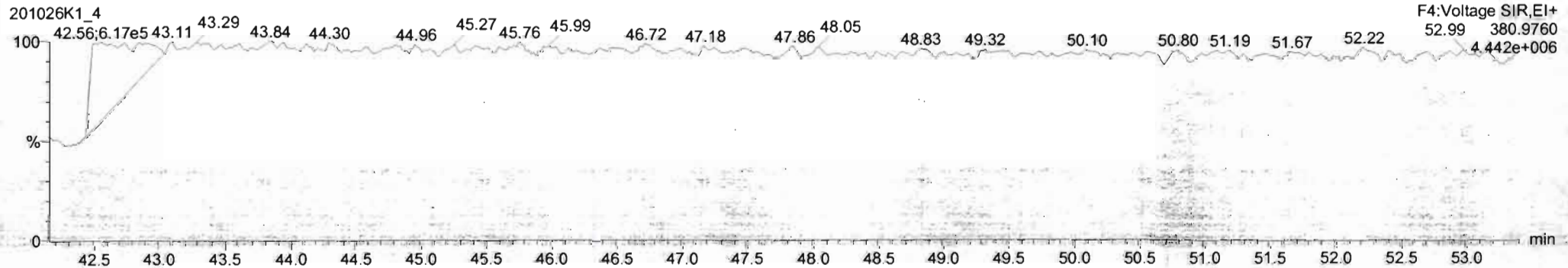
### PCB-188



### 13C-PCB-188

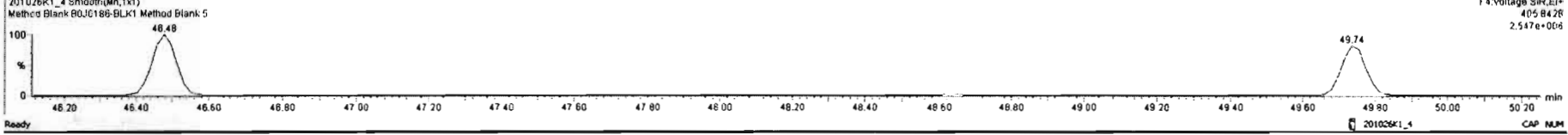
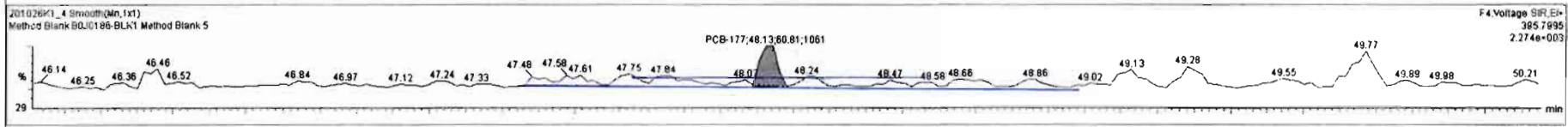
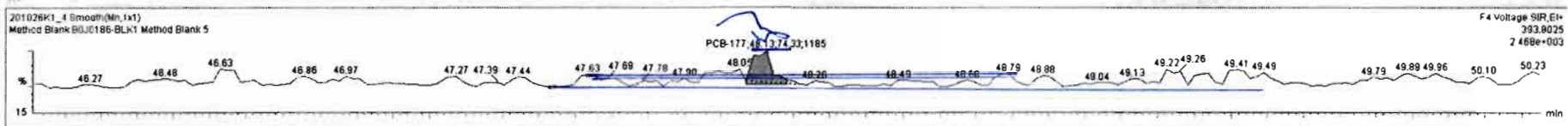


### PFK4c



#	Name	Resp	RA	n/y	RRF	w/Vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
226	2nd Function Tri-PCBs				1.0907	5.000	0.00		0.000		NO			4.87	
227	3rd Function Tri-PCBs				0.9828	5.000	0.00		0.000		NO			8.29	
228	Total Tetra-PCBs				1.0778	5.000	0.00		0.000		NO			14.9	
229	3rd Function Penta-PCBs				1.3157	5.000	0.00		0.000		NO			15.2	
230	4th Function Penta-PCBs				1.0735	5.000	0.00		0.000		NO			2.02	
231	3rd Function Hexa-PCBs				0.9505	5.000	0.00		0.000		NO	0.0000		6.36	0.7307
232	4th Function Hexa-PCBs				1.0316	5.000	0.00		0.000		NO			7.42	
233	Total Hepta-PCBs				1.3551	5.000	0.00		0.000		NO	0.0000		10.3	0.8293
234	4th Function Octa-PCBs				1.0008	5.000	0.00		0.000		NO			2.95	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	143 PCB-177	48.14	48.13	7.433e1	6.081e1	1.050	1.22	YES	0.82930	0.00000

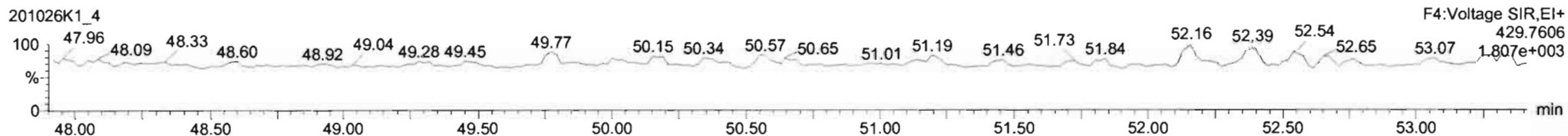
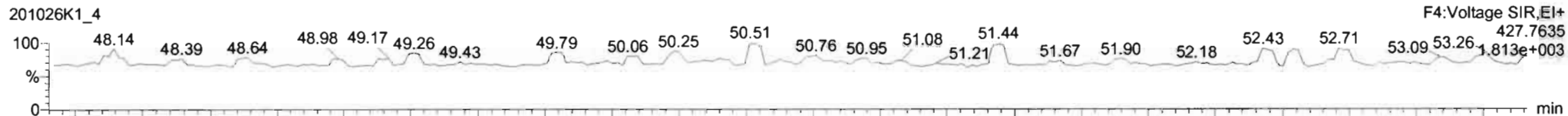


Dataset: Untitled

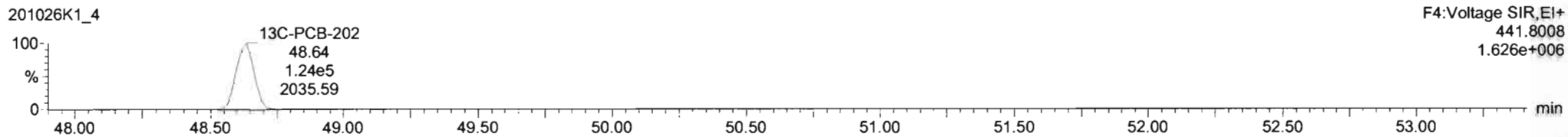
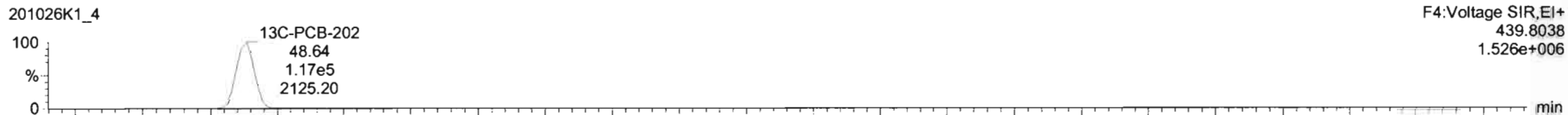
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time  
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

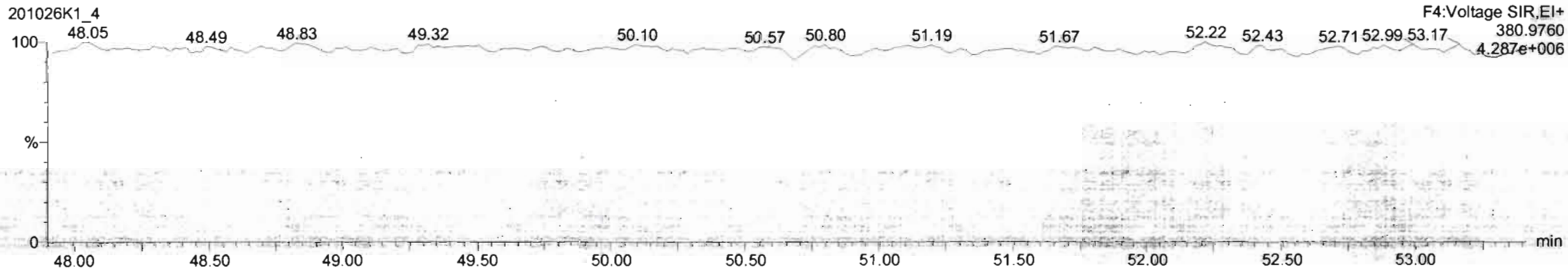
**PCB-202**



**13C-PCB-202**



**PFK4d**



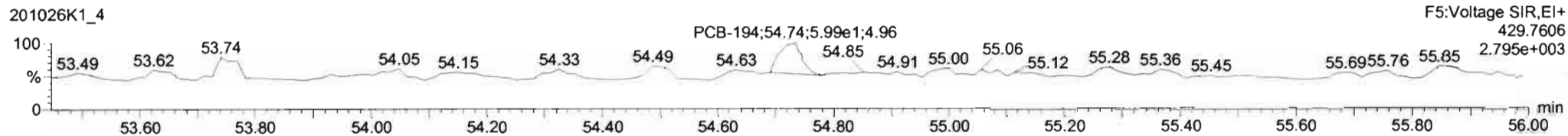
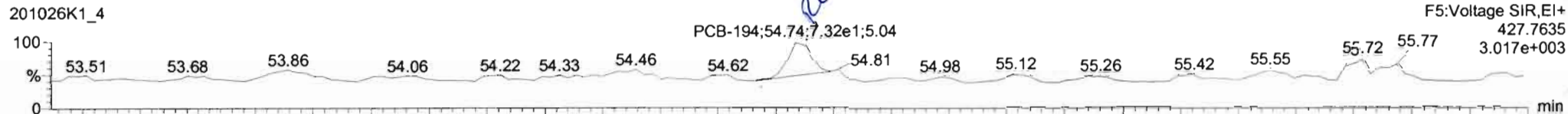
Dataset: Untitled

Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

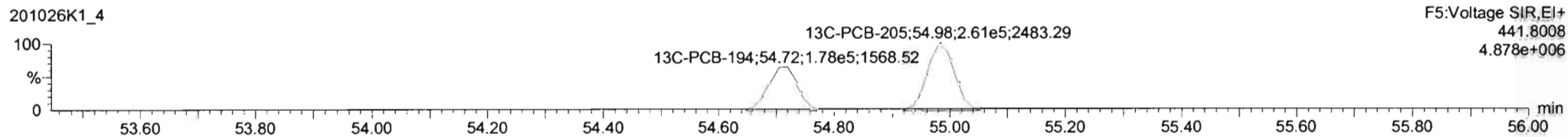
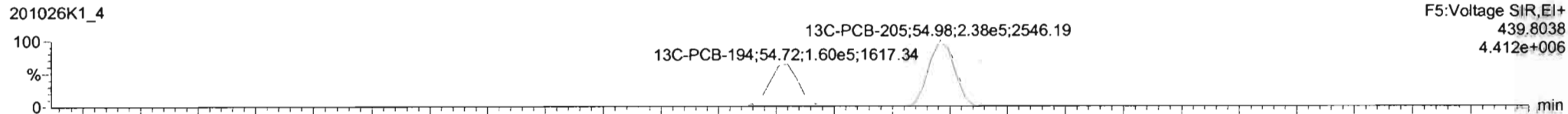
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

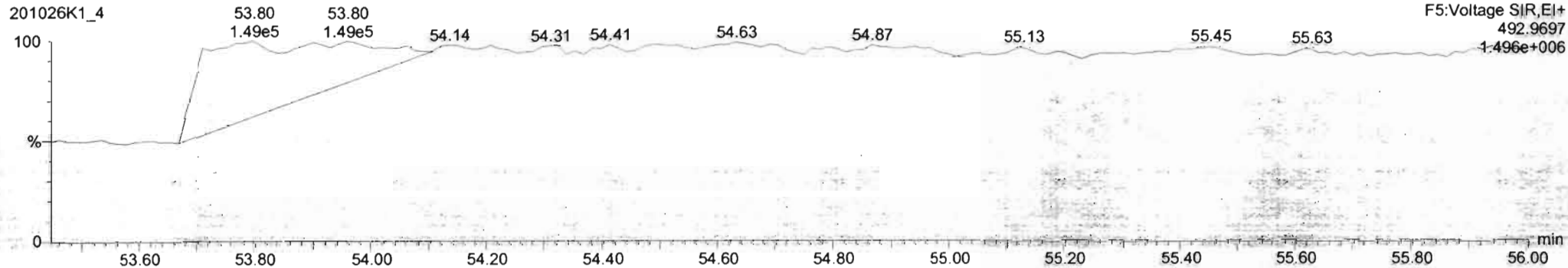
**PCB-195**

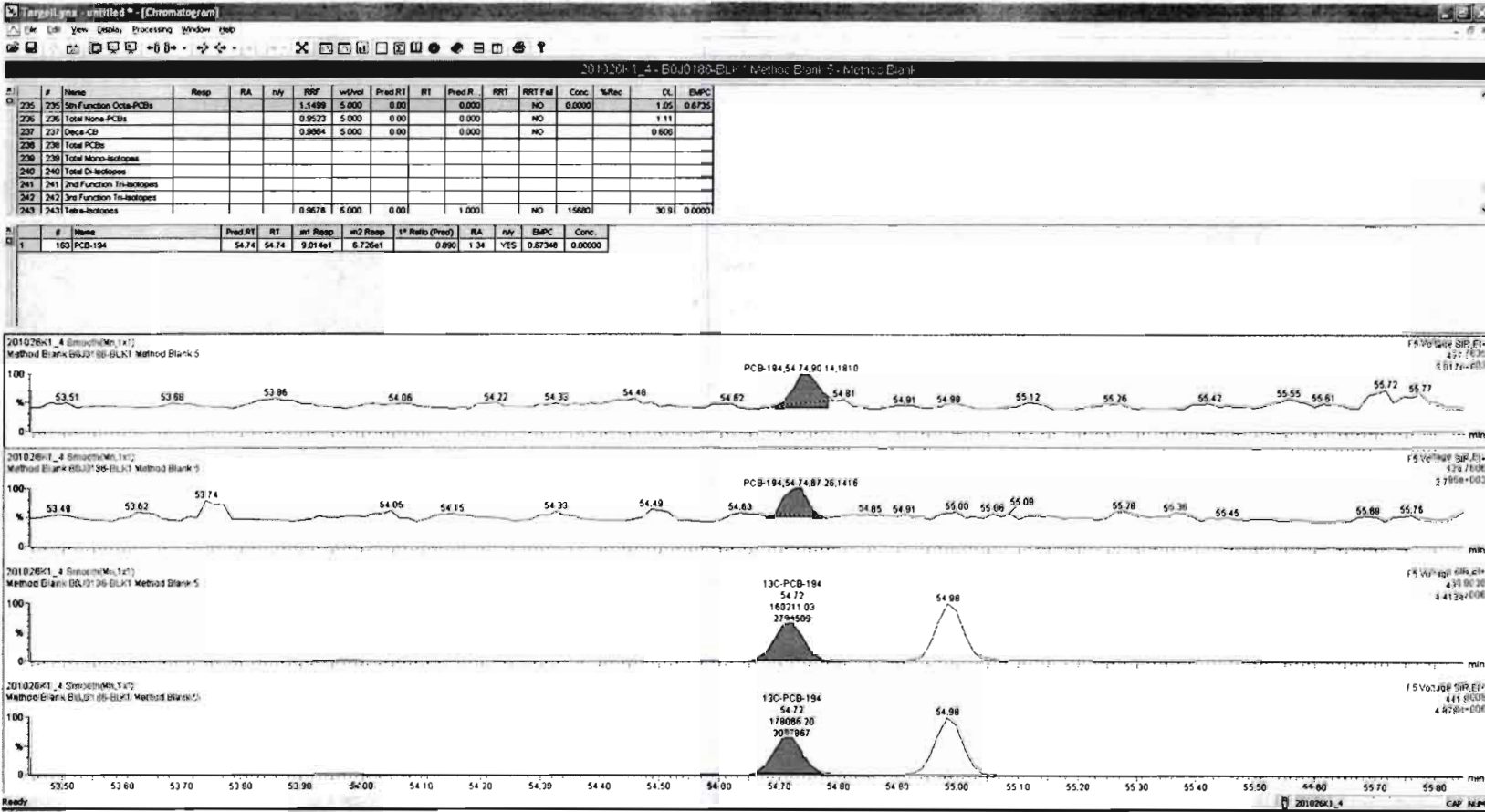


**13C-PCB-194**



**PFK5a**





Dataset: Untitled

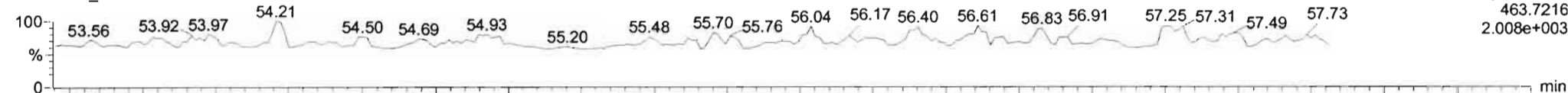
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

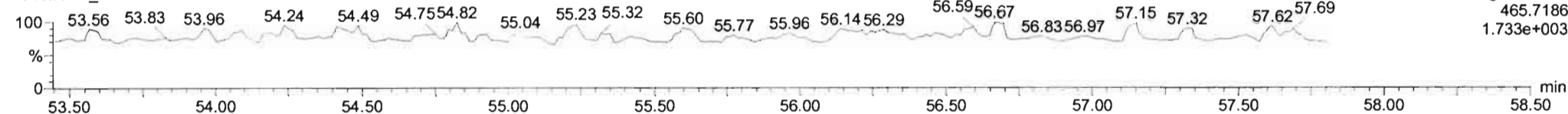
Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

**PCB-208**

201026K1\_4

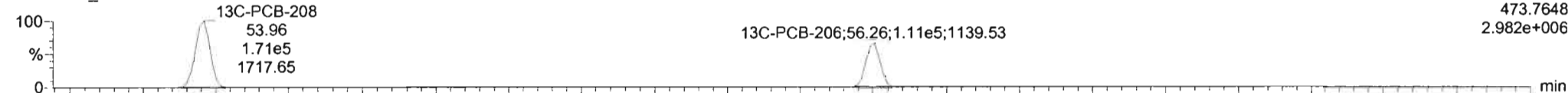


201026K1\_4

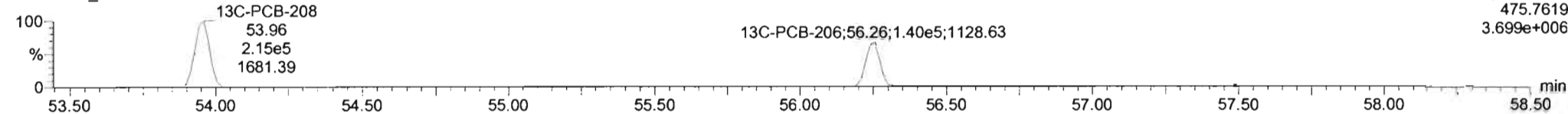


**13C-PCB-208**

201026K1\_4

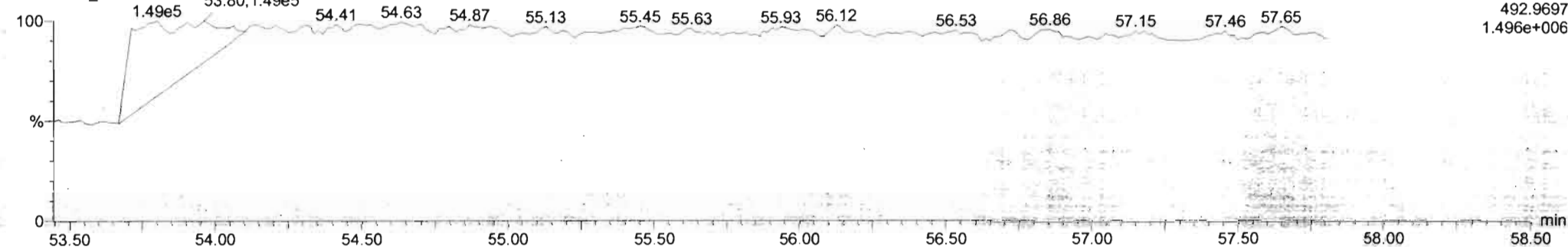


201026K1\_4



**PFK5**

201026K1\_4





Dataset: Untitled

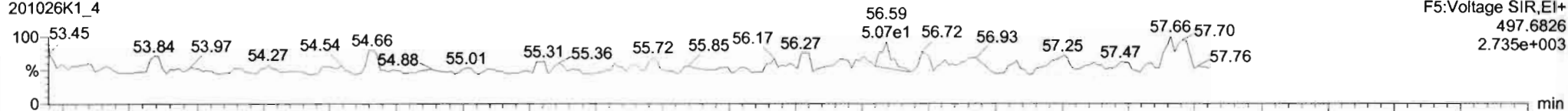
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

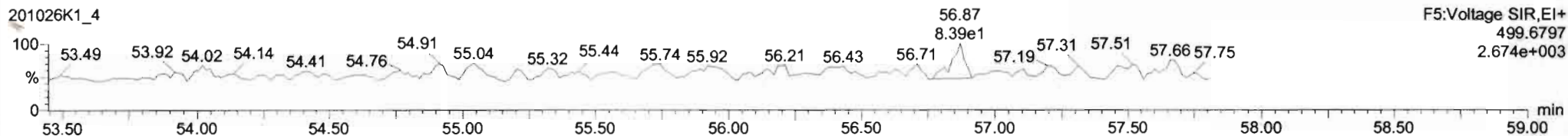
Name: 201026K1\_4, Date: 26-Oct-2020, Time: 12:33:13, ID: B0J0186-BLK1 Method Blank 5, Description: Method Blank

**PCB-209**

201026K1\_4

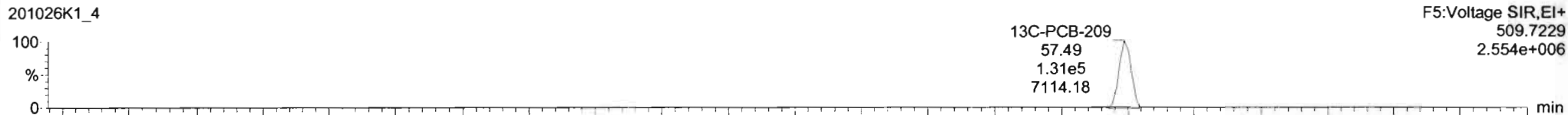


201026K1\_4

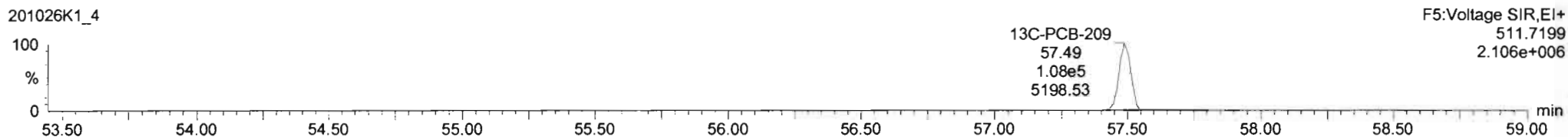


**13C-PCB-209**

201026K1\_4

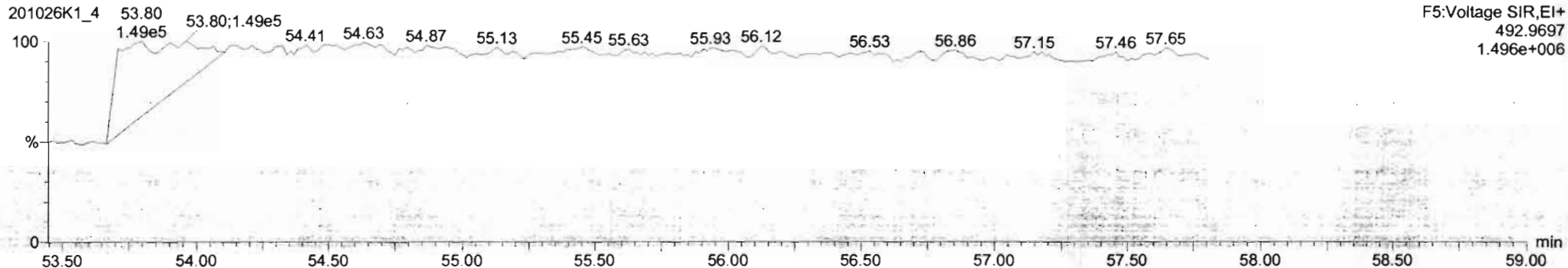


201026K1\_4



**PFK5b**

201026K1\_4



Dataset: U:\VG11.PRO\Results\201026K1\201026K1-2.qld

Last Altered: Monday, October 26, 2020 14:23:12 Pacific Daylight Time  
Printed: Monday, October 26, 2020 14:23:29 Pacific Daylight Time

*Hc 10-26-2020*

*C7 11/03/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	4.47e5	3.20	NO	1.17	5.000	15.58	15.58	1.001	1.001	NO	1158		0.596	1158
2	2 PCB-2	4.80e5	3.24	NO	1.18	5.000	18.00	17.98	0.988	0.988	NO	1169		0.574	1169
3	3 PCB-3	4.64e5	3.22	NO	1.15	5.000	18.22	18.22	1.001	1.001	NO	1164		0.591	1164
4	4 PCB-4/10	8.89e5	1.55	NO	1.25	5.000	19.65	19.64	1.004	1.004	NO	2485		3.43	2485
5	5 PCB-7/9	1.12e6	1.58	NO	0.960	5.000	21.45	21.44	1.003	1.002	NO	2461		2.75	2461
6	6 PCB-6	5.98e5	1.61	NO	1.02	5.000	22.10	22.09	1.033	1.033	NO	1236		2.58	1236
7	7 PCB-5/8	1.18e6	1.59	NO	0.992	5.000	22.51	22.51	1.052	1.052	NO	2508		2.66	2508
8	8 PCB-14	5.99e5	1.58	NO	1.02	5.000	23.64	23.64	0.951	0.951	NO	1214		2.58	1214
9	9 PCB-11	6.54e5	1.60	NO	1.13	5.000	24.87	24.87	1.001	1.001	NO	1196		2.33	1196
10	10 PCB-12/13	1.23e6	1.57	NO	1.03	5.000	25.30	25.24	1.018	1.016	NO	2465		2.55	2465
11	11 PCB-15	6.22e5	1.59	NO	1.03	5.000	25.59	25.59	1.030	1.030	NO	1239		2.53	1239
12	12 PCB-19	2.55e5	1.04	NO	1.11	5.000	23.83	23.82	1.001	1.001	NO	1088		1.43	1088
13	13 PCB-30	4.23e5	1.04	NO	1.79	5.000	24.73	24.73	1.039	1.039	NO	1116		0.880	1116
14	14 PCB-18	2.86e5	1.04	NO	0.818	5.000	25.51	25.51	0.952	0.952	NO	1104		1.27	1104
15	15 PCB-17	2.73e5	1.04	NO	0.758	5.000	25.69	25.68	0.959	0.958	NO	1134		1.37	1134
16	16 PCB-24/27	7.59e5	1.04	NO	1.08	5.000	26.29	26.27	0.981	0.980	NO	2212		0.960	2212
17	17 PCB-16/32	6.56e5	1.05	NO	0.925	5.000	26.82	26.82	1.001	1.001	NO	2236		1.12	2236
18	18 PCB-34	5.62e5	1.05	NO	0.945	5.000	27.62	27.62	0.959	0.959	NO	1211		1.71	1211
19	19 PCB-23	5.34e5	1.05	NO	0.883	5.000	27.71	27.71	0.962	0.962	NO	1232		1.83	1232
20	20 PCB-29	5.40e5	1.04	NO	0.893	5.000	27.97	27.98	0.971	0.971	NO	1233		1.81	1233
21	21 PCB-26	5.71e5	1.05	NO	0.944	5.000	28.20	28.20	0.979	0.979	NO	1233		1.71	1233
22	22 PCB-25	5.64e5	1.04	NO	0.950	5.000	28.35	28.37	0.984	0.984	NO	1208		1.70	1208
23	23 PCB-31	6.37e5	1.03	NO	1.04	5.000	28.73	28.72	0.997	0.997	NO	1252		1.56	1252
24	24 PCB-28	6.26e5	1.05	NO	1.03	5.000	28.83	28.83	1.001	1.001	NO	1245		1.58	1245
25	25 PCB-20/21/33	1.72e6	1.06	NO	0.941	5.000	29.47	29.46	1.023	1.023	NO	3732		1.72	3732
26	26 PCB-22	5.94e5	1.04	NO	0.973	5.000	29.91	29.93	1.038	1.039	NO	1244		1.66	1244
27	27 PCB-36	6.18e5	1.04	NO	1.08	5.000	30.56	30.56	0.931	0.931	NO	1226		1.65	1226
28	28 PCB-39	5.72e5	1.03	NO	0.988	5.000	31.06	31.05	0.947	0.946	NO	1234		1.79	1234
29	29 PCB-38	6.07e5	1.04	NO	1.05	5.000	31.85	31.85	0.970	0.971	NO	1230		1.69	1230
30	30 PCB-35	6.03e5	1.06	NO	1.04	5.000	32.39	32.39	0.987	0.987	NO	1233		1.70	1233
31	31 PCB-37	6.05e5	1.04	NO	1.01	5.000	32.83	32.83	1.001	1.001	NO	1279		1.76	1279
32	32 PCB-54	3.63e5	0.78	NO	1.08	5.000	27.66	27.68	1.001	1.001	NO	1159		2.05	1159

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-2.qld

Last Altered: Monday, October 26, 2020 14:23:12 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:23:29 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	3.02e5	0.77	NO	0.880	5.000	28.87	28.89	1.044	1.045	NO	1185		2.51	1185
34	34 PCB-53	2.82e5	0.78	NO	0.997	5.000	29.55	29.54	0.944	0.944	NO	1163		2.58	1163
35	35 PCB-51	2.96e5	0.78	NO	1.07	5.000	29.90	29.89	0.955	0.955	NO	1140		2.41	1140
36	36 PCB-45	2.42e5	0.76	NO	0.858	5.000	30.35	30.34	0.969	0.969	NO	1155		2.99	1155
37	37 PCB-46	2.29e5	0.77	NO	0.831	5.000	30.85	30.84	0.985	0.985	NO	1132		3.09	1132
38	38 PCB-52/69	6.51e5	0.78	NO	1.17	5.000	31.34	31.34	1.001	1.001	NO	2292		2.20	2292
39	39 PCB-73	4.22e5	0.78	NO	1.44	5.000	31.46	31.45	1.005	1.005	NO	1201		1.78	1201
40	40 PCB-43/49	5.76e5	0.77	NO	1.02	5.000	31.63	31.62	1.010	1.010	NO	2327		2.53	2327
41	41 PCB-47	2.66e5	0.78	NO	0.922	5.000	31.85	31.85	1.001	1.001	NO	1097		2.60	1097
42	42 PCB-48/75	7.06e5	0.78	NO	1.12	5.000	31.96	31.96	1.004	1.004	NO	2392		2.14	2392
43	43 PCB-65	3.85e5	0.76	NO	1.28	5.000	32.24	32.24	1.013	1.013	NO	1142		1.87	1142
44	44 PCB-62	3.32e5	0.78	NO	1.13	5.000	32.33	32.35	1.016	1.016	NO	1119		2.12	1119
45	45 PCB-44	2.50e5	0.76	NO	0.824	5.000	32.66	32.66	1.026	1.026	NO	1153		2.91	1153
46	46 PCB-42/59	6.39e5	0.77	NO	1.05	5.000	32.89	32.89	1.033	1.033	NO	2311		2.28	2311
47	47 PCB-41/64/71/72	1.45e6	0.78	NO	1.19	5.000	33.50	33.50	1.053	1.053	NO	4643		2.02	4643
48	48 PCB-68	3.90e5	0.76	NO	1.28	5.000	33.76	33.78	1.061	1.061	NO	1158		1.87	1158
49	49 PCB-40	1.91e5	0.79	NO	0.602	5.000	33.98	33.99	1.067	1.068	NO	1205		3.98	1205
50	50 PCB-57	4.12e5	0.77	NO	1.16	5.000	34.37	34.36	0.969	0.969	NO	1146		1.75	1146
51	51 PCB-67	4.10e5	0.77	NO	1.08	5.000	34.68	34.67	0.978	0.978	NO	1225		1.88	1225
52	52 PCB-58	4.05e5	0.78	NO	1.20	5.000	34.80	34.80	0.982	0.982	NO	1089		1.69	1089
53	53 PCB-63	3.82e5	0.77	NO	1.07	5.000	34.96	34.95	0.986	0.986	NO	1154		1.90	1154
54	54 PCB-74	4.14e5	0.77	NO	1.19	5.000	35.26	35.25	0.994	0.994	NO	1131		1.72	1131
55	55 PCB-61/70	7.66e5	0.77	NO	1.05	5.000	35.47	35.40	1.000	0.998	NO	2352		1.93	2352
56	56 PCB-76/66	8.20e5	0.77	NO	1.16	5.000	35.67	35.64	1.006	1.005	NO	2278		1.75	2278
57	57 PCB-80	4.27e5	0.78	NO	1.19	5.000	35.91	35.92	1.001	1.001	NO	1125		1.75	1125
58	58 PCB-55	4.31e5	0.78	NO	1.17	5.000	36.24	36.24	1.010	1.010	NO	1152		1.78	1152
59	59 PCB-56/60	7.48e5	0.79	NO	1.02	5.000	36.73	36.74	1.024	1.024	NO	2297		2.04	2297
60	60 PCB-79	4.24e5	0.77	NO	1.14	5.000	37.86	37.86	1.055	1.055	NO	1163		1.82	1163
61	61 PCB-78	4.11e5	0.79	NO	1.14	5.000	38.56	38.56	0.987	0.987	NO	1162		1.94	1162
62	62 PCB-81	3.58e5	0.78	NO	1.05	5.000	39.10	39.12	1.000	1.001	NO	1100		2.11	1100
63	63 PCB-77	3.81e5	0.77	NO	1.14	5.000	39.72	39.74	1.000	1.001	NO	1108		1.94	1108
64	64 PCB-104	2.36e5	1.60	NO	1.12	5.000	32.52	32.52	1.001	1.001	NO	1122		1.06	1122
65	65 PCB-96	2.41e5	1.56	NO	1.15	5.000	33.82	33.82	1.041	1.041	NO	1115		1.03	1115
66	66 PCB-103	1.92e5	1.58	NO	0.936	5.000	34.38	34.38	1.058	1.058	NO	1094		1.27	1094
67	67 PCB-100	2.01e5	1.63	NO	0.954	5.000	34.75	34.75	1.069	1.069	NO	1125		1.25	1125
68	68 PCB-94	1.55e5	1.63	NO	0.949	5.000	35.23	35.23	0.985	0.985	NO	1103		1.63	1103

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-2.qld

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Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	5.98e5	1.61	NO	1.20	5.000	35.70	35.72	0.999	0.999	NO	3357		1.28	3357
70	70 PCB-93	1.55e5	1.66	NO	0.935	5.000	35.85	35.85	1.003	1.003	NO	1119		1.65	1119
71	71 PCB-88/91	3.50e5	1.61	NO	1.06	5.000	36.18	36.18	1.012	1.012	NO	2220		1.45	2220
72	72 PCB-121	2.79e5	1.61	NO	1.71	5.000	36.29	36.29	1.015	1.015	NO	1102		0.904	1102
73	73 PCB-84/92	3.41e5	1.61	NO	1.02	5.000	37.13	37.13	0.990	0.990	NO	2243		1.47	2243
74	74 PCB-89	1.85e5	1.58	NO	1.11	5.000	37.32	37.32	0.995	0.995	NO	1123		1.35	1123
75	75 PCB-90/101	3.70e5	1.64	NO	1.12	5.000	37.51	37.52	1.000	1.000	NO	2208		1.33	2208
76	76 PCB-113	2.52e5	1.54	NO	1.51	5.000	37.77	37.76	1.007	1.007	NO	1117		0.989	1117
77	77 PCB-99	2.22e5	1.66	NO	1.32	5.000	37.86	37.88	1.010	1.010	NO	1127		1.13	1127
78	78 PCB-119	2.61e5	1.61	NO	1.81	5.000	38.34	38.34	0.987	0.987	NO	1066		0.917	1066
79	79 PCB-108/112	4.36e5	1.61	NO	1.44	5.000	38.50	38.51	0.991	0.991	NO	2225		1.15	2225
80	80 PCB-83	2.71e5	1.62	NO	1.83	5.000	38.67	38.68	0.996	0.996	NO	1090		0.904	1090
81	81 PCB-97	1.89e5	1.60	NO	1.28	5.000	38.86	38.88	1.000	1.001	NO	1085		1.29	1085
82	82 PCB-86	1.73e5	1.61	NO	1.12	5.000	39.03	39.03	1.005	1.005	NO	1142		1.48	1142
83	83 PCB-87/117/125	6.90e5	1.62	NO	1.56	5.000	39.15	39.16	1.008	1.008	NO	3263		1.06	3263
84	84 PCB-111/115	5.44e5	1.61	NO	1.91	5.000	39.31	39.33	1.012	1.012	NO	2100		0.867	2100
85	85 PCB-85/116	4.20e5	1.60	NO	1.41	5.000	39.44	39.44	1.015	1.015	NO	2193		1.17	2193
86	86 PCB-120	2.83e5	1.60	NO	2.01	5.000	39.70	39.70	1.022	1.022	NO	1040		0.826	1040
87	87 PCB-110	2.57e5	1.62	NO	1.74	5.000	39.85	39.85	1.026	1.026	NO	1089		0.950	1089
88	88 PCB-82	1.55e5	1.60	NO	0.781	5.000	40.48	40.48	0.975	0.975	NO	1111		1.60	1111
89	89 PCB-124	2.67e5	1.58	NO	1.40	5.000	41.19	41.21	0.993	0.993	NO	1072		0.894	1072
90	90 PCB-107/109	5.33e5	1.59	NO	1.34	5.000	41.33	41.35	0.996	0.996	NO	2232		0.931	2232
91	91 PCB-123	2.37e5	1.59	NO	1.20	5.000	41.52	41.52	1.000	1.000	NO	1112		1.04	1112
92	92 PCB-106/118	5.09e5	1.58	NO	1.22	5.000	41.73	41.73	1.001	1.001	NO	2265		0.991	2265
93	93 PCB-114	4.33e5	1.56	NO	1.14	5.000	42.39	42.39	1.000	1.000	NO	1194		0.927	1194
94	94 PCB-122	3.81e5	1.54	NO	0.944	5.000	42.54	42.52	1.004	1.004	NO	1270		1.12	1270
95	95 PCB-105	4.03e5	1.61	NO	1.05	5.000	43.27	43.28	1.000	1.000	NO	1176		1.01	1176
96	96 PCB-127	4.40e5	1.58	NO	1.06	5.000	43.62	43.64	1.000	1.001	NO	1199		0.955	1199
97	97 PCB-126	4.22e5	1.59	NO	1.17	5.000	45.59	45.59	1.000	1.000	NO	1207		1.00	1207
98	98 PCB-155	1.16e5	1.34	NO	1.04	5.000	37.06	37.06	1.000	1.001	NO	1116		0.870	1116
99	99 PCB-150	1.25e5	1.31	NO	1.08	5.000	38.36	38.36	1.036	1.036	NO	1164		0.838	1164
100	1... PCB-152	1.42e5	1.33	NO	1.19	5.000	38.84	38.84	1.049	1.049	NO	1208		0.766	1208
101	1... PCB-145	1.36e5	1.31	NO	1.19	5.000	39.31	39.31	1.061	1.061	NO	1154		0.764	1154
102	1... PCB-136	1.18e5	1.31	NO	1.02	5.000	39.64	39.64	1.070	1.070	NO	1163		0.890	1163
103	1... PCB-148	9.52e4	1.30	NO	0.842	5.000	39.75	39.75	1.073	1.073	NO	1139		1.08	1139
104	1... PCB-154	1.06e5	1.34	NO	0.919	5.000	40.26	40.28	1.087	1.087	NO	1164		0.988	1164

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-2.qld

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Printed: Monday, October 26, 2020 14:23:29 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	9.31e4	1.30	NO	0.787	5.000	40.93	40.93	1.105	1.105	NO	1192		1.15	1192
106	1... PCB-135	1.02e5	1.30	NO	0.922	5.000	41.15	41.15	1.111	1.111	NO	1119		0.985	1119
107	1... PCB-144	9.43e4	1.33	NO	0.789	5.000	41.26	41.26	1.114	1.114	NO	1203		1.15	1203
108	1... PCB-147	9.61e4	1.17	NO	0.834	5.000	41.39	41.39	1.117	1.118	NO	1159		1.09	1159
109	1... PCB-139/149	2.17e5	1.30	NO	0.948	5.000	41.68	41.67	1.125	1.125	NO	2299		0.958	2299
110	1... PCB-140	9.69e4	1.29	NO	0.794	5.000	41.86	41.86	1.130	1.130	NO	1228		1.14	1228
111	1... PCB-134/143	4.26e5	1.24	NO	0.759	5.000	42.31	42.31	0.974	0.974	NO	2332		2.24	2332
112	1... PCB-131/133	4.59e5	1.26	NO	0.821	5.000	42.63	42.61	0.982	0.981	NO	2325		2.07	2325
113	1... PCB-142	2.08e5	1.27	NO	0.754	5.000	42.79	42.78	0.985	0.985	NO	1144		2.26	1144
114	1... PCB-146/165	5.69e5	1.26	NO	1.02	5.000	43.03	43.01	0.991	0.990	NO	2324		1.67	2324
115	1... PCB-132/161	5.61e5	1.27	NO	1.02	5.000	43.28	43.26	0.997	0.996	NO	2274		1.66	2274
116	1... PCB-153	2.92e5	1.25	NO	1.07	5.000	43.44	43.45	1.000	1.000	NO	1134		1.59	1134
117	1... PCB-168	2.96e5	1.23	NO	1.08	5.000	43.67	43.67	1.006	1.006	NO	1143		1.58	1143
118	1... PCB-141	2.35e5	1.24	NO	1.03	5.000	44.20	44.20	1.000	1.000	NO	1184		2.06	1184
119	1... PCB-137	2.45e5	1.26	NO	1.11	5.000	44.60	44.60	1.009	1.009	NO	1141		1.90	1141
120	1... PCB-130	1.97e5	1.28	NO	0.885	5.000	44.69	44.70	1.012	1.012	NO	1152		2.39	1152
121	1... PCB-138/163/164	8.86e5	1.27	NO	1.28	5.000	45.09	45.09	1.001	1.001	NO	3344		1.59	3344
122	1... PCB-158/160	5.72e5	1.28	NO	1.24	5.000	45.36	45.34	1.007	1.006	NO	2236		1.65	2236
123	1... PCB-129	1.96e5	1.25	NO	0.867	5.000	45.59	45.59	1.012	1.012	NO	1093		2.36	1093
124	1... PCB-166	3.07e5	1.27	NO	1.14	5.000	46.06	46.06	0.993	0.993	NO	1093		1.51	1093
125	1... PCB-159	3.33e5	1.31	NO	1.22	5.000	46.41	46.40	1.001	1.000	NO	1115		1.41	1115
126	1... PCB-128/162	5.15e5	1.25	NO	0.907	5.000	46.69	46.70	1.007	1.007	NO	2312		1.90	2312
127	1... PCB-167	3.07e5	1.27	NO	1.11	5.000	47.10	47.10	1.000	1.000	NO	1151		1.55	1151
128	1... PCB-156	2.99e5	1.26	NO	1.13	5.000	48.43	48.43	1.000	1.000	NO	1118		1.56	1118
129	1... PCB-157	2.71e5	1.28	NO	1.04	5.000	48.71	48.71	1.000	1.000	NO	1123		1.75	1123
130	1... PCB-169	2.81e5	1.28	NO	1.16	5.000	50.99	50.99	1.000	1.000	NO	1132		1.75	1132
131	1... PCB-188	2.60e5	1.07	NO	1.29	5.000	43.07	43.07	1.001	1.001	NO	1091		1.26	1091
132	1... PCB-184	2.55e5	1.05	NO	1.23	5.000	43.52	43.52	1.011	1.011	NO	1120		1.32	1120
133	1... PCB-179	2.52e5	1.05	NO	1.30	5.000	44.32	44.32	1.030	1.030	NO	1050		1.25	1050
134	1... PCB-176	2.61e5	1.06	NO	1.31	5.000	44.81	44.81	1.041	1.041	NO	1076		1.24	1076
135	1... PCB-186	2.70e5	1.05	NO	1.33	5.000	45.43	45.44	1.056	1.056	NO	1098		1.22	1098
136	1... PCB-178	1.78e5	1.05	NO	0.943	5.000	45.95	45.95	1.068	1.068	NO	1022		1.72	1022
137	1... PCB-175	1.88e5	1.02	NO	0.956	5.000	46.31	46.31	1.076	1.076	NO	1062		1.70	1062
138	1... PCB-182/187	4.22e5	1.06	NO	1.07	5.000	46.48	46.48	1.080	1.080	NO	2137		1.52	2137
139	1... PCB-183	2.03e5	1.07	NO	1.02	5.000	46.80	46.82	1.088	1.088	NO	1072		1.59	1072
140	1... PCB-185	1.84e5	1.07	NO	1.41	5.000	47.48	47.48	0.955	0.955	NO	1119		1.71	1119

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-2.qld

Last Altered: Monday, October 26, 2020 14:23:12 Pacific Daylight Time

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Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	1.75e5	1.00	NO	1.35	5.000	47.86	47.86	0.962	0.962	NO	1105		1.78	1105
142	1... PCB-181	1.89e5	1.03	NO	1.47	5.000	47.97	47.97	0.964	0.965	NO	1095		1.63	1095
143	1... PCB-177	1.66e5	1.08	NO	1.28	5.000	48.14	48.14	0.968	0.968	NO	1110		1.88	1110
144	1... PCB-171	1.71e5	1.06	NO	1.32	5.000	48.45	48.45	0.974	0.974	NO	1111		1.83	1111
145	1... PCB-173	1.56e5	1.09	NO	1.19	5.000	48.88	48.88	0.983	0.983	NO	1120		2.02	1120
146	1... PCB-172	1.82e5	1.06	NO	1.38	5.000	49.34	49.36	0.992	0.992	NO	1128		1.75	1128
147	1... PCB-192	2.33e5	1.06	NO	1.83	5.000	49.55	49.55	0.996	0.996	NO	1088		1.32	1088
148	1... PCB-180	1.87e5	1.04	NO	1.41	5.000	49.76	49.77	1.000	1.001	NO	1132		1.70	1132
149	1... PCB-193	2.12e5	1.06	NO	1.68	5.000	49.97	49.98	1.005	1.005	NO	1081		1.44	1081
150	1... PCB-191	2.12e5	1.05	NO	1.71	5.000	50.23	50.23	1.010	1.010	NO	1056		1.41	1056
151	1... PCB-170	1.55e5	1.05	NO	1.40	5.000	51.42	51.42	1.000	1.000	NO	1115		1.99	1115
152	1... PCB-190	2.00e5	1.06	NO	1.85	5.000	51.63	51.63	1.005	1.004	NO	1087		1.50	1087
153	1... PCB-189	1.92e5	1.03	NO	1.45	5.000	53.13	53.13	1.000	1.000	NO	1097		1.38	1097
154	1... PCB-202	1.53e5	0.93	NO	1.17	5.000	48.68	48.66	1.001	1.000	NO	1040		1.04	1040
155	1... PCB-201	1.41e5	0.92	NO	1.05	5.000	49.15	49.15	1.010	1.011	NO	1068		1.15	1068
156	1... PCB-204	1.50e5	0.89	NO	1.14	5.000	49.30	49.32	1.014	1.014	NO	1045		1.07	1045
157	1... PCB-197	1.51e5	0.92	NO	1.13	5.000	49.61	49.62	1.020	1.020	NO	1063		1.07	1063
158	1... PCB-200	1.42e5	0.93	NO	1.07	5.000	50.55	50.55	1.039	1.039	NO	1058		1.14	1058
159	1... PCB-198	1.11e5	0.94	NO	0.794	5.000	52.10	52.10	1.071	1.071	NO	1117		1.53	1117
160	1... PCB-199	1.01e5	0.93	NO	0.809	5.000	52.24	52.24	1.074	1.074	NO	990.1		1.50	990.1
161	1... PCB-196/203	2.07e5	0.94	NO	0.838	5.000	52.53	52.54	1.080	1.080	NO	1963		1.45	1963
162	1... PCB-195	1.92e5	0.89	NO	1.04	5.000	53.83	53.81	0.984	0.983	NO	1123		1.36	1123
163	1... PCB-194	2.12e5	0.90	NO	1.12	5.000	54.74	54.74	1.000	1.000	NO	1159		1.27	1159
164	1... PCB-205	2.43e5	0.89	NO	1.29	5.000	55.01	55.00	1.005	1.005	NO	1149		1.10	1149
165	1... PCB-208	1.91e5	1.37	NO	0.933	5.000	53.98	53.97	1.000	1.000	NO	1134		1.71	1134
166	1... PCB-207	1.88e5	1.37	NO	0.916	5.000	54.30	54.30	1.006	1.006	NO	1133		1.74	1133
167	1... PCB-206	1.34e5	1.37	NO	1.01	5.000	56.27	56.27	1.000	1.000	NO	1119		2.34	1119
168	1... PCB-209	1.18e5	1.20	NO	0.986	5.000	57.49	57.50	1.000	1.000	NO	1078		1.06	1078
169	1... 13C-PCB-1	6.61e5	3.26	NO	0.893	5.000	15.57	15.57	0.609	0.609	NO	1196	59.8	1.54	
170	1... 13C-PCB-3	6.95e5	3.34	NO	0.911	5.000	18.21	18.21	0.712	0.712	NO	1232	61.6	1.51	
171	1... 13C-PCB-4	5.73e5	1.64	NO	0.600	5.000	19.58	19.57	0.766	0.765	NO	1544	77.2	1.37	
172	1... 13C-PCB-9	9.45e5	1.61	NO	0.970	5.000	21.39	21.39	0.837	0.837	NO	1575	78.7	0.850	
173	1... 13C-PCB-11	9.71e5	1.60	NO	0.962	5.000	24.85	24.85	0.972	0.972	NO	1631	81.6	0.857	
174	1... 13C-PCB-19	4.23e5	1.09	NO	0.499	5.000	23.81	23.80	0.931	0.931	NO	1370	68.5	10.9	
175	1... 13C-PCB-32	6.34e5	1.08	NO	0.744	5.000	26.80	26.80	1.048	1.048	NO	1377	68.9	7.28	
176	1... 13C-PCB-28	9.82e5	1.05	NO	1.06	5.000	28.81	28.81	1.004	1.004	NO	1696	84.8	7.54	

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-2.qld

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Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	9.38e5	1.08	NO	0.989	5.000	32.79	32.81	1.143	1.143	NO	1743	87.1	8.12	
178	1... 13C-PCB-54	5.80e5	0.79	NO	0.999	5.000	27.64	27.64	0.753	0.753	NO	1655	82.8	3.85	
179	1... 13C-PCB-52	4.87e5	0.77	NO	0.804	5.000	31.30	31.31	0.853	0.853	NO	1728	86.4	4.78	
180	1... 13C-PCB-47	5.27e5	0.78	NO	0.857	5.000	31.83	31.83	0.867	0.867	NO	1752	87.6	4.48	
181	1... 13C-PCB-70	6.18e5	0.80	NO	0.996	5.000	35.45	35.46	0.965	0.966	NO	1770	88.5	3.86	
182	1... 13C-PCB-80	6.40e5	0.80	NO	1.03	5.000	35.89	35.88	0.977	0.977	NO	1775	88.8	3.74	
183	1... 13C-PCB-81	6.22e5	0.79	NO	0.988	5.000	39.08	39.08	1.064	1.064	NO	1796	89.8	3.89	
184	1... 13C-PCB-77	6.05e5	0.79	NO	0.969	5.000	39.70	39.70	1.081	1.081	NO	1782	89.1	3.97	
185	1... 13C-PCB-104	3.75e5	1.65	NO	1.02	5.000	32.49	32.50	0.827	0.827	NO	1809	90.4	1.54	
186	1... 13C-PCB-95	2.96e5	1.64	NO	0.805	5.000	35.75	35.75	0.910	0.910	NO	1802	90.1	1.95	
187	1... 13C-PCB-101	2.98e5	1.61	NO	0.793	5.000	37.50	37.50	0.954	0.954	NO	1846	92.3	1.98	
188	1... 13C-PCB-97	2.71e5	1.61	NO	0.696	5.000	38.84	38.84	0.988	0.988	NO	1911	95.5	2.25	
189	1... 13C-PCB-123	3.56e5	1.67	NO	0.933	5.000	41.50	41.50	1.056	1.056	NO	1871	93.6	1.68	
190	1... 13C-PCB-118	3.68e5	1.62	NO	0.986	5.000	41.69	41.69	1.061	1.061	NO	1833	91.7	1.59	
191	1... 13C-PCB-114	6.35e5	1.56	NO	1.55	5.000	42.35	42.37	0.908	0.908	NO	2181	109	3.40	
192	1... 13C-PCB-105	6.52e5	1.58	NO	1.57	5.000	43.26	43.26	0.927	0.927	NO	2203	110	3.35	
193	1... 13C-PCB-127	6.94e5	1.60	NO	1.62	5.000	43.60	43.60	0.935	0.935	NO	2268	113	3.24	
194	1... 13C-PCB-126	5.97e5	1.61	NO	1.57	5.000	45.55	45.57	0.976	0.977	NO	2023	101	3.36	
195	1... 13C-PCB-155	1.99e5	1.36	NO	0.615	5.000	37.04	37.04	0.942	0.942	NO	1586	79.3	1.48	
196	1... 13C-PCB-153	4.82e5	1.29	NO	1.36	5.000	43.41	43.43	0.930	0.931	NO	1875	93.7	2.27	
197	1... 13C-PCB-141	3.87e5	1.32	NO	1.13	5.000	44.19	44.19	0.947	0.947	NO	1822	91.1	2.75	
198	1... 13C-PCB-138	4.13e5	1.29	NO	1.18	5.000	45.04	45.06	0.965	0.966	NO	1851	92.6	2.62	
199	1... 13C-PCB-159	4.91e5	1.29	NO	1.44	5.000	46.38	46.38	0.994	0.994	NO	1811	90.5	2.15	
200	2... 13C-PCB-167	4.82e5	1.28	NO	1.44	5.000	47.08	47.08	1.009	1.009	NO	1776	88.8	2.15	
201	2... 13C-PCB-156	4.74e5	1.28	NO	1.40	5.000	48.41	48.41	1.038	1.038	NO	1803	90.2	2.22	
202	2... 13C-PCB-157	4.65e5	1.27	NO	1.40	5.000	48.70	48.69	1.044	1.044	NO	1769	88.4	2.22	
203	2... 13C-PCB-169	4.28e5	1.29	NO	1.33	5.000	50.97	50.97	1.093	1.093	NO	1710	85.5	2.33	
204	2... 13C-PCB-188	3.70e5	0.46	NO	1.41	5.000	43.03	43.03	0.926	0.926	NO	1943	97.2	1.96	
205	2... 13C-PCB-180	2.34e5	0.46	NO	0.929	5.000	49.74	49.74	1.070	1.070	NO	1866	93.3	2.97	
206	2... 13C-PCB-170	1.98e5	0.45	NO	0.794	5.000	51.40	51.40	1.106	1.106	NO	1848	92.4	3.47	
207	2... 13C-PCB-189	2.40e5	0.44	NO	1.04	5.000	53.11	53.11	1.143	1.143	NO	1703	85.1	2.64	
208	2... 13C-PCB-202	2.51e5	0.95	NO	1.04	5.000	48.64	48.64	1.046	1.046	NO	1794	89.7	1.91	
209	2... 13C-PCB-194	3.28e5	0.91	NO	0.768	5.000	54.70	54.72	0.995	0.995	NO	1906	95.3	3.04	
210	2... 13C-PCB-208	3.62e5	0.79	NO	0.991	5.000	53.94	53.96	0.981	0.981	NO	1628	81.4	1.64	
211	2... 13C-PCB-206	2.38e5	0.80	NO	0.552	5.000	56.24	56.26	1.023	1.023	NO	1927	96.3	2.94	
212	2... 13C-PCB-209	2.23e5	1.25	NO	0.396	5.000	57.49	57.49	1.046	1.046	NO	2506	125	1.50	

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-2.qld

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Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	1.24e6	1.62	NO	1.00	5.000	25.58	25.57	1.000	0.000	NO	2000	100	0.824	
214	2... 13C-PCB-31	1.09e6	1.04	NO	1.00	5.000	28.72	28.70	1.000	0.000	NO	2000	100	8.03	
215	2... 13C-PCB-60	7.01e5	0.81	NO	1.00	5.000	36.74	36.72	1.000	0.000	NO	2000	100	3.84	
216	2... 13C-PCB-111	4.08e5	1.61	NO	1.00	5.000	39.33	39.31	1.000	0.000	NO	2000	100	1.57	
217	2... 13C-PCB-128	3.76e5	1.30	NO	1.00	5.000	46.67	46.65	1.000	0.000	NO	2000	100	3.10	
218	2... 13C-PCB-182	2.70e5	0.46	NO	1.00	5.000	46.50	46.48	0.000	0.000	NO	2000	100	2.76	
219	2... 13C-PCB-205	4.48e5	0.93	NO	1.00	5.000	55.01	54.98	1.000	0.000	NO	2000	100	2.34	
220	2... 13C-PCB-79	7.11e5	0.80	NO	1.07	5.000	37.82	37.84	1.030	1.030	NO	1897	94.9	3.60	
221	2... 13C-PCB-178	2.50e5	0.44	NO	0.766	5.000	45.93	45.93	0.988	0.988	NO	1732	86.6	2.70	
222	2... 13C-PCB-79	7.11e5	0.80	NO	1.08	5.000	37.82	37.84	0.968	0.968	NO	2112	106	4.09	
223	2... 13C-PCB-178	2.50e5	0.44	NO	1.05	5.000	45.93	45.93	0.923	0.923	NO	2032	102	3.05	



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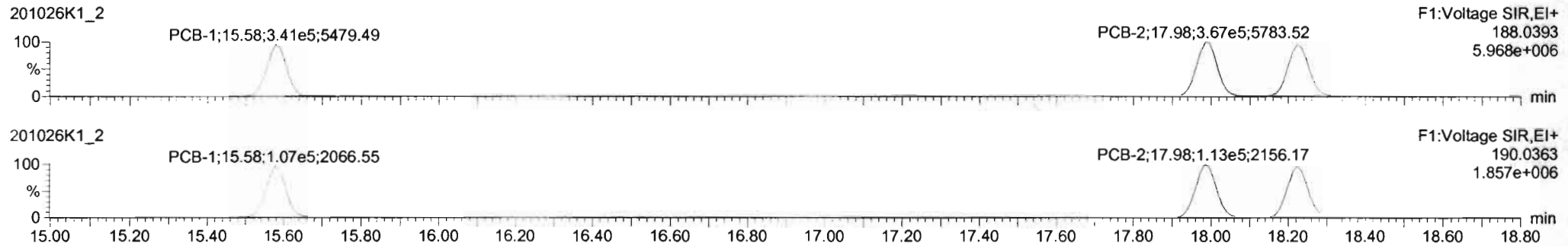
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Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

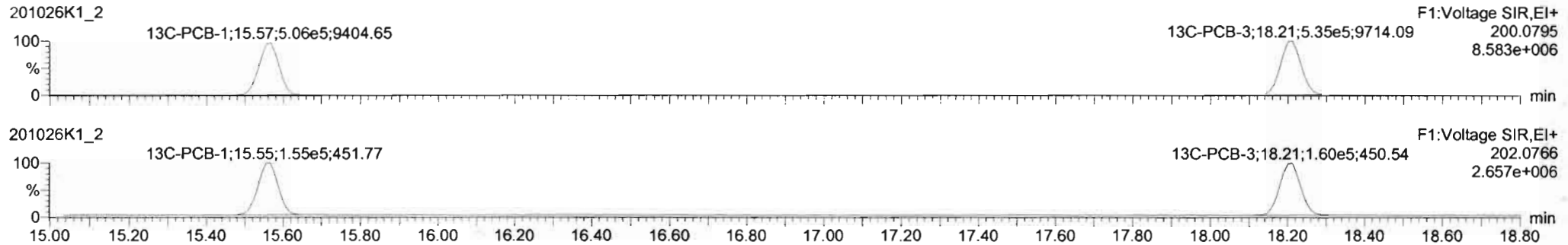
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Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

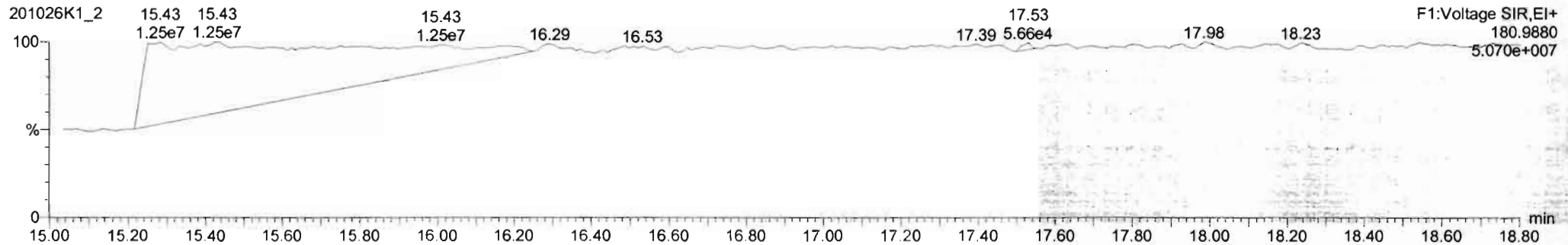
**PCB-1**



**13C-PCB-1**



**PFK1**



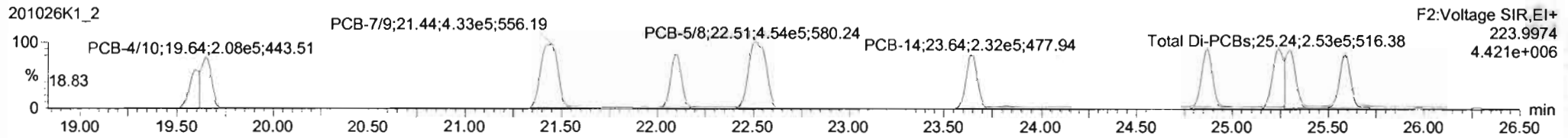
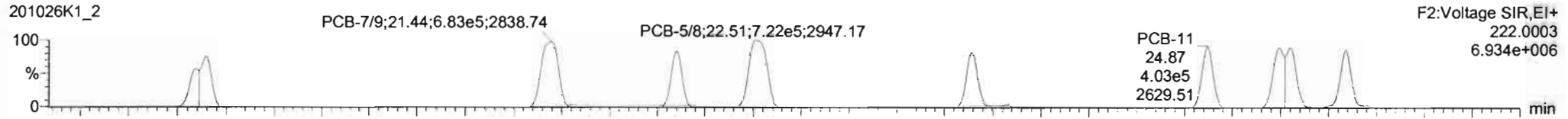
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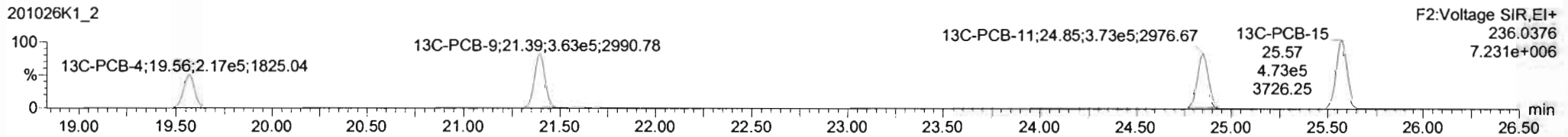
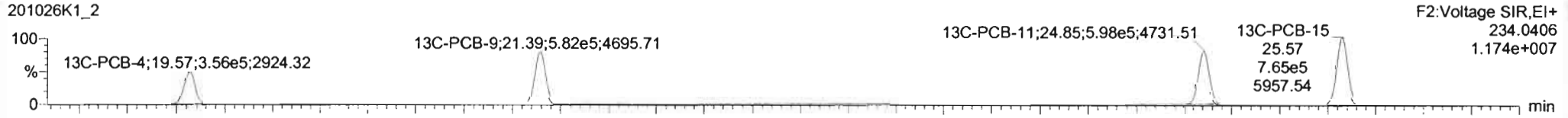
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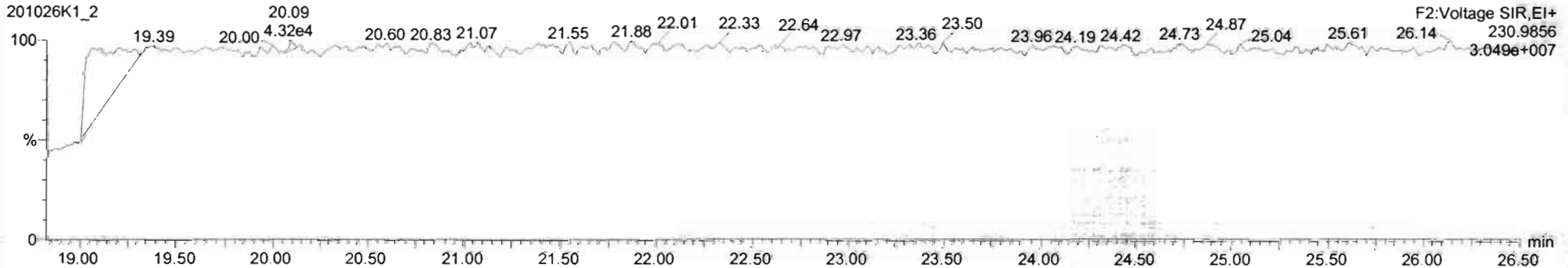
**PCB-4/10**



**13C-PCB-4**

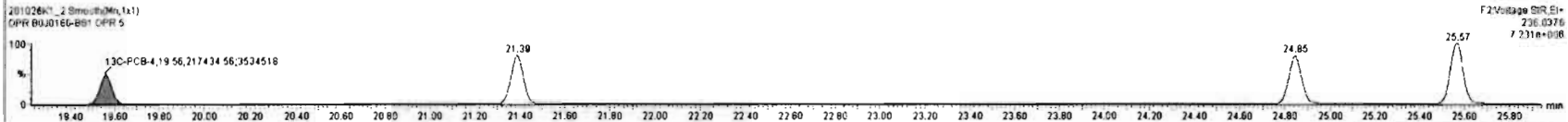
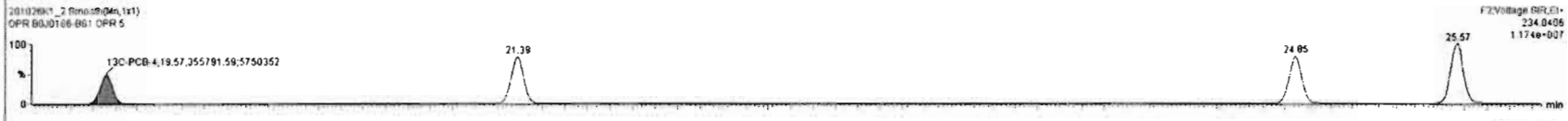
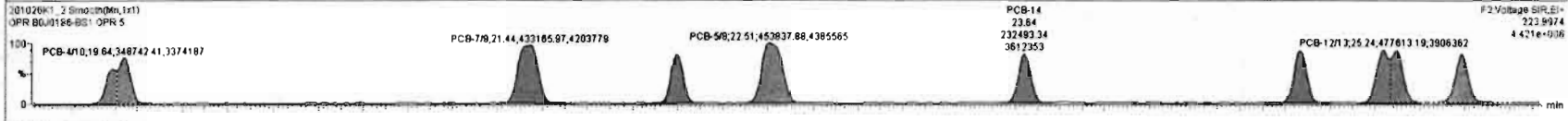
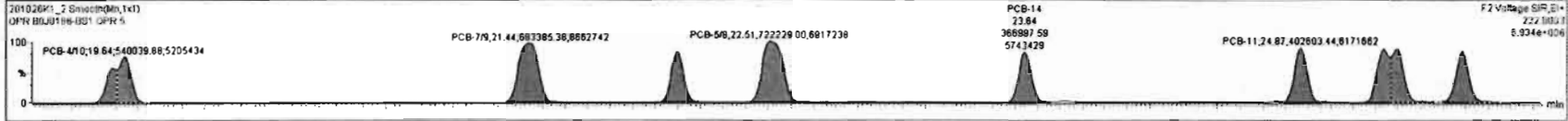


**PFK2a**



#	Name	Resp	RA	n/y	RFV	wt/d	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
218	218 13C-PCB-162	2.70e5	0.46	NO	1.0000	5.000	46.50	46.48	0.000	0.000	NO	2000	100	2.76	
219	219 13C-PCB-205	4.48e5	0.93	NO	1.0000	5.000	55.01	54.98	1.000	0.000	NO	2000	100	2.34	
220	220 13C-PCB-79	7.11e5	0.80	NO	1.0699	5.000	37.82	37.84	1.030	1.030	NO	1897	94.9	3.60	
221	221 13C-PCB-178	2.50e5	0.44	NO	0.7885	5.000	45.93	45.93	0.988	0.988	NO	1732	86.6	2.70	
222	222 13C-PCB-79	7.11e5	0.80	NO	1.0821	5.000	37.82	37.84	0.968	0.968	NO	2112	106	4.06	
223	223 13C-PCB-178	2.50e5	0.44	NO	1.0508	5.000	45.93	45.93	0.923	0.923	NO	2032	102	3.05	
224	224 Total Mono-PCBs				1.1665	5.000	0.00		0.000		NO	3491	1.76	3491	
225	225 Total Di-PCBs				1.0537	5.000	0.00		0.000		NO	14800	21.4	14800	
226	226 2nd Function Tri-PCBs				1.0807	5.000	0.00		0.000		NO	8889	7.03	8889	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-410	19.66	19.64	5.400e5	3.487e5	1.560	1.55	NO	2484.6	2484.6
2	5 PCB-79	21.45	21.44	6.834e5	4.332e5	1.560	1.58	NO	2461.0	2461.0
3	6 PCB-5	22.10	22.09	3.685e5	2.295e5	1.580	1.61	NO	1236.3	1236.3
4	7 PCB-58	22.51	22.51	7.222e5	4.538e5	1.580	1.59	NO	2507.6	2507.6
5	8 PCB-14	23.64	23.64	3.870e5	2.325e5	1.580	1.58	NO	1214.3	1214.3
6	9 PCB-11	24.87	24.87	4.026e5	2.514e5	1.580	1.60	NO	1196.4	1196.4

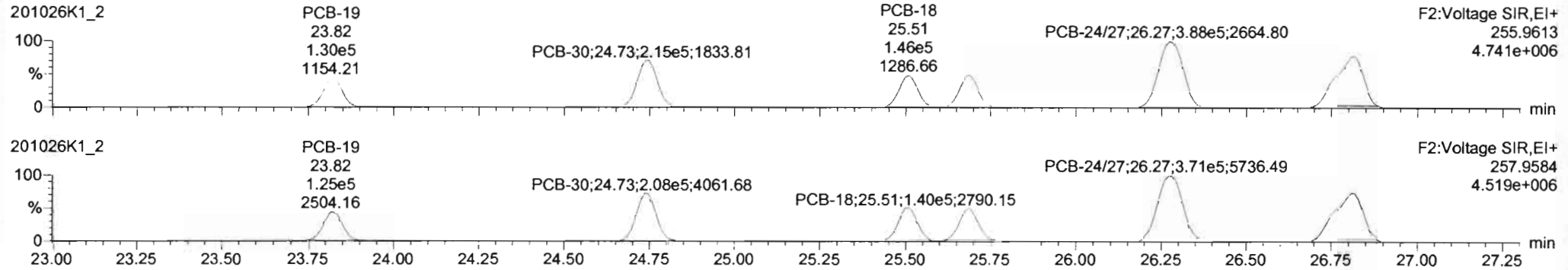


Dataset: Untitled

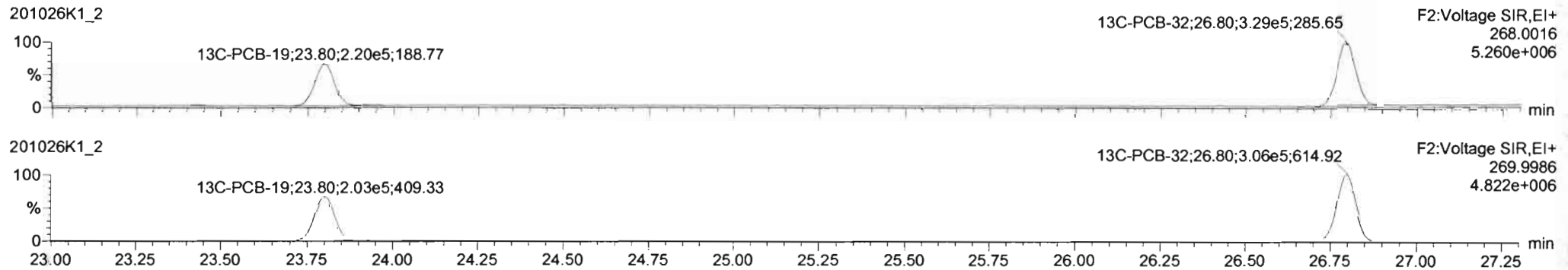
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time  
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

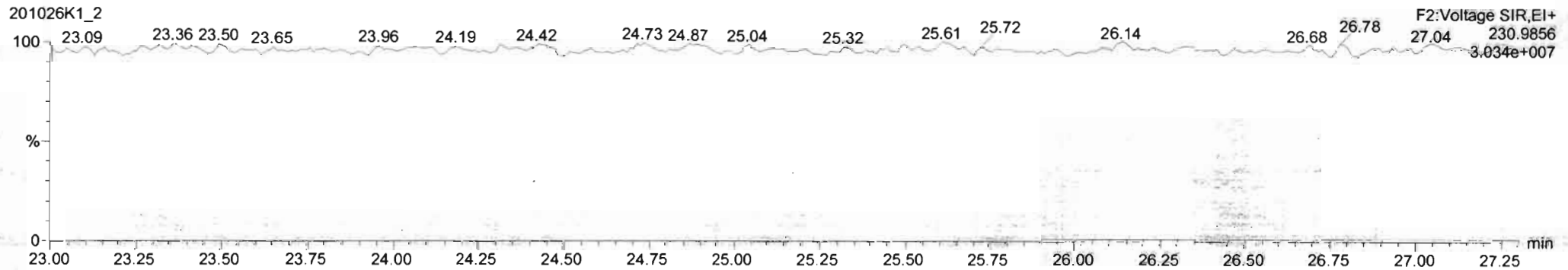
**PCB-19**



**13C-PCB-19**



**PFK2b**



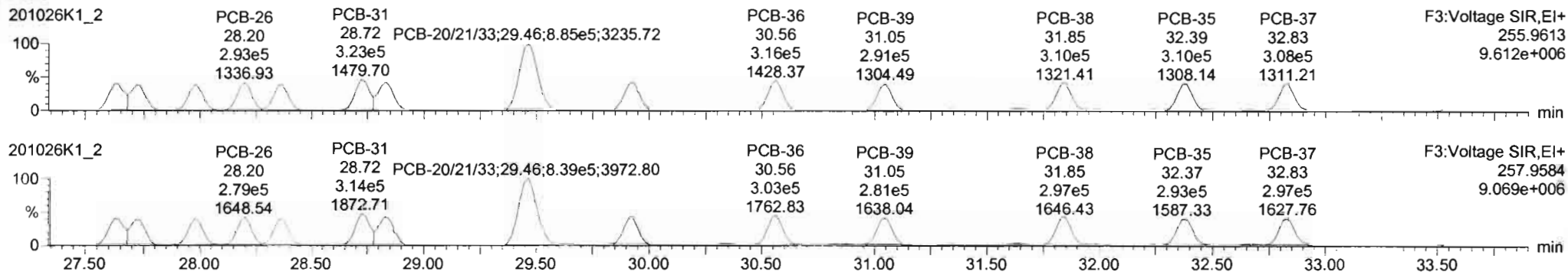
Dataset: Untitled

Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

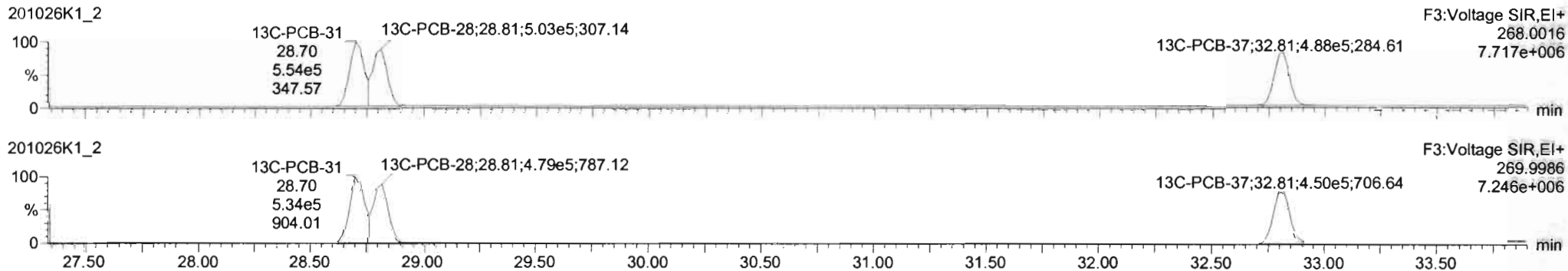
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

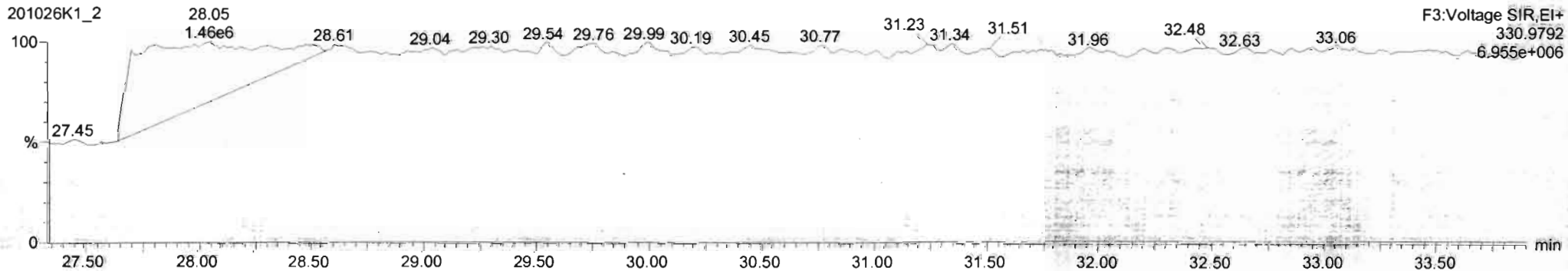
**PCB-34**



**13C-PCB-28**



**PFK3d**

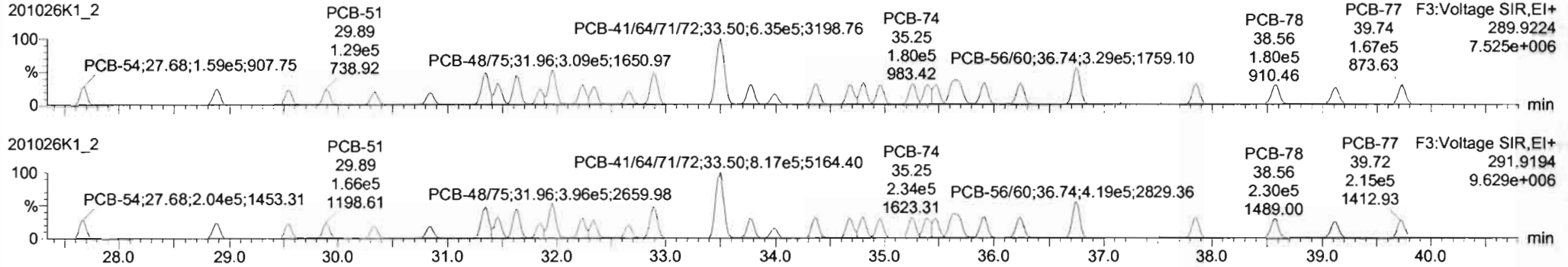


Dataset: Untitled

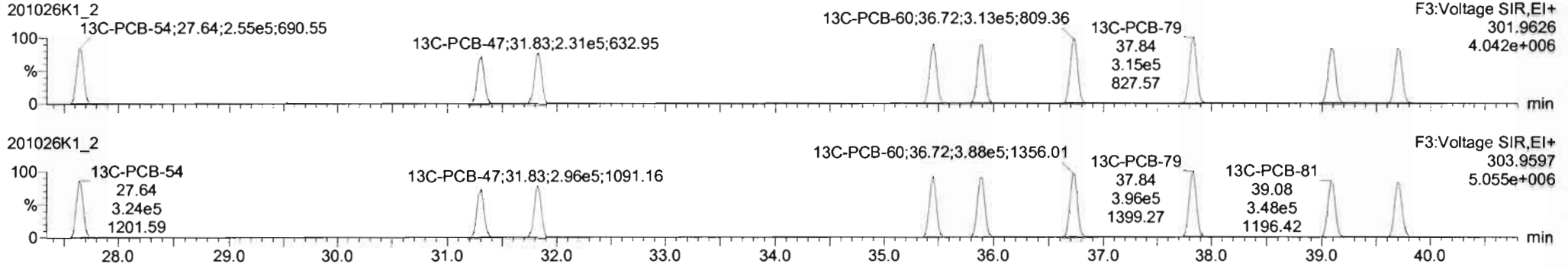
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time  
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

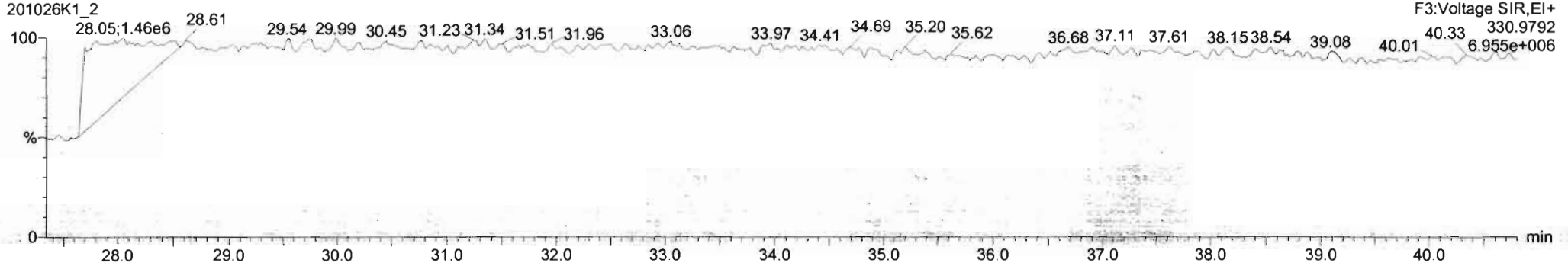
**PCB-54**



**13C-PCB-54**



**PFK3a**



Dataset: Untitled

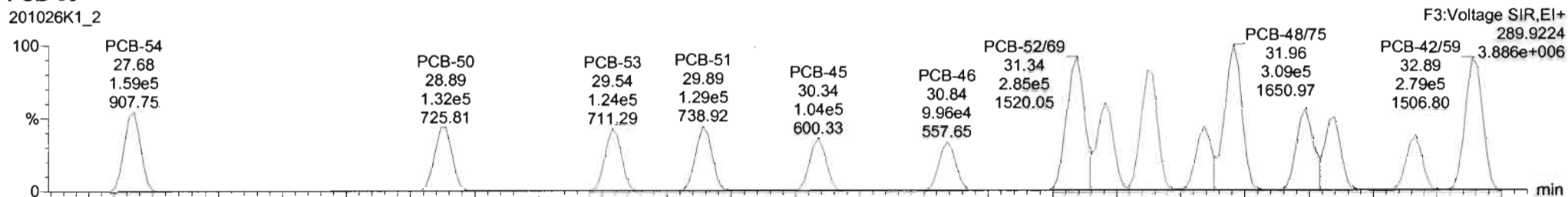
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

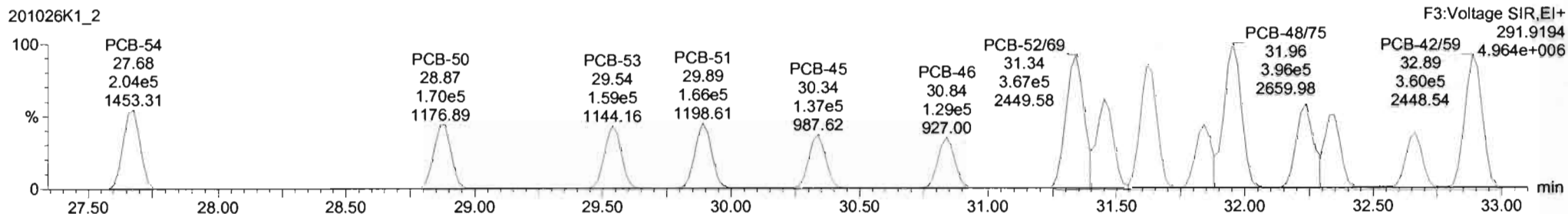
Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

**PCB-50**

201026K1\_2

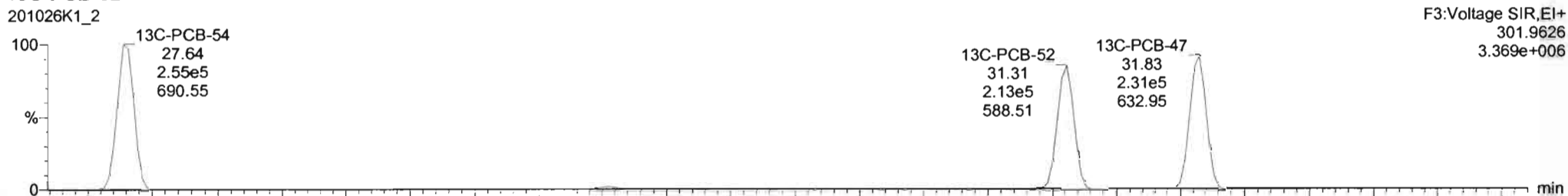


201026K1\_2

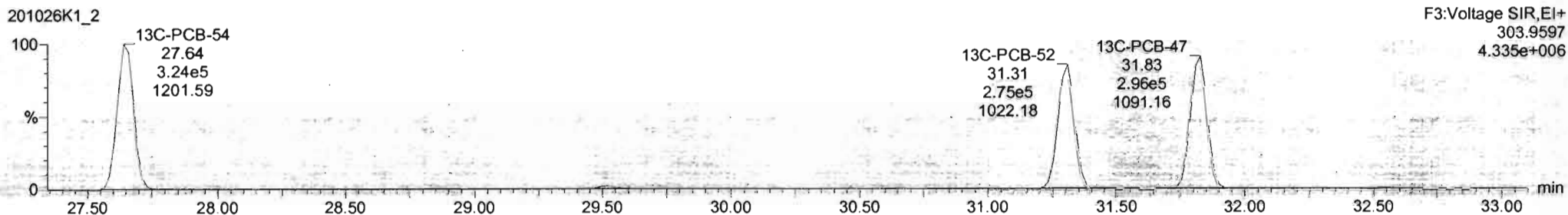


**13C-PCB-52**

201026K1\_2



201026K1\_2



Dataset: Untitled

Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

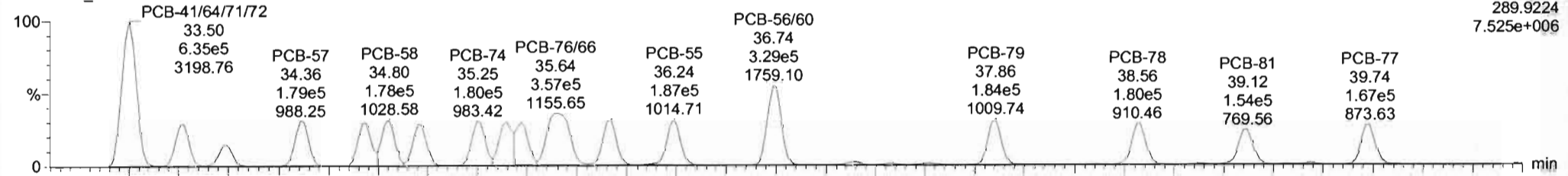
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

**PCB-68**

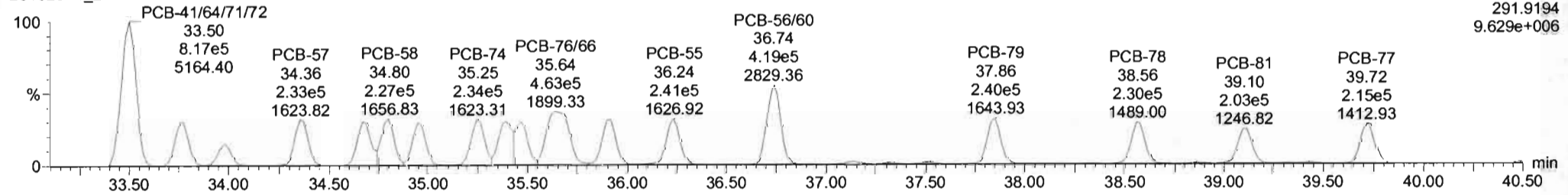
201026K1\_2

F3:Voltage SIR,EI+  
289.9224  
7.525e+006



201026K1\_2

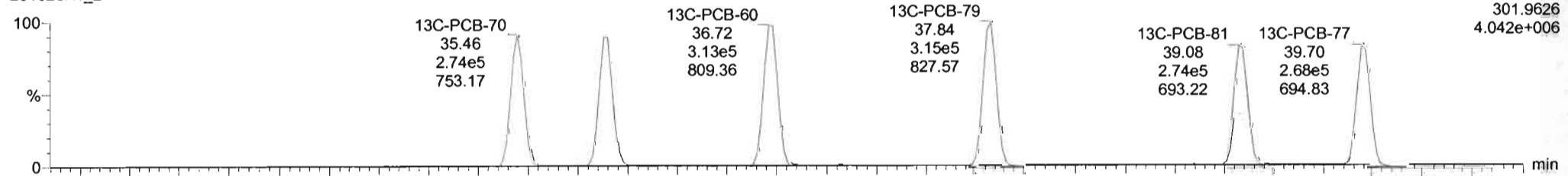
F3:Voltage SIR,EI+  
291.9194  
9.629e+006



**13C-PCB-60**

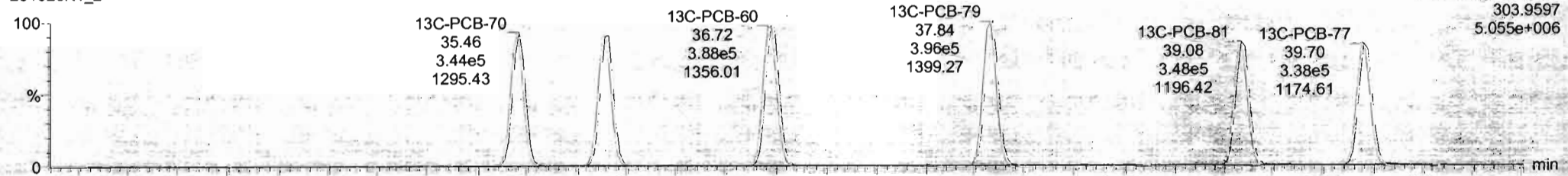
201026K1\_2

F3:Voltage SIR,EI+  
301.9626  
4.042e+006



201026K1\_2

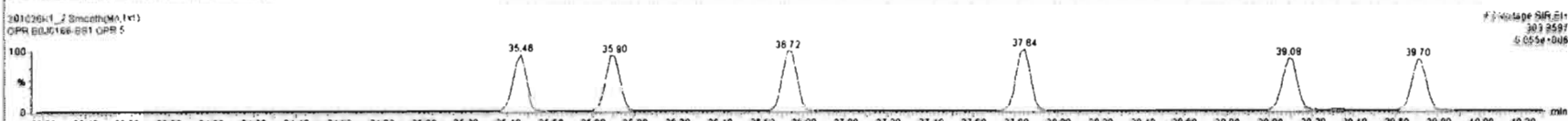
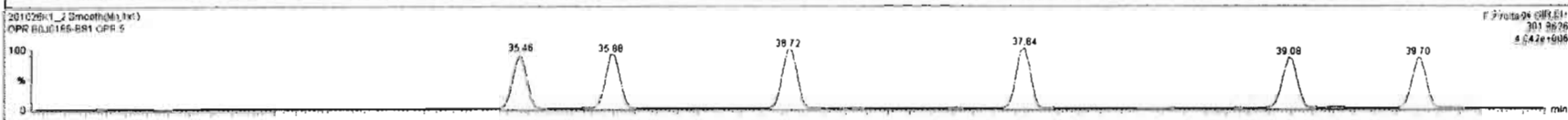
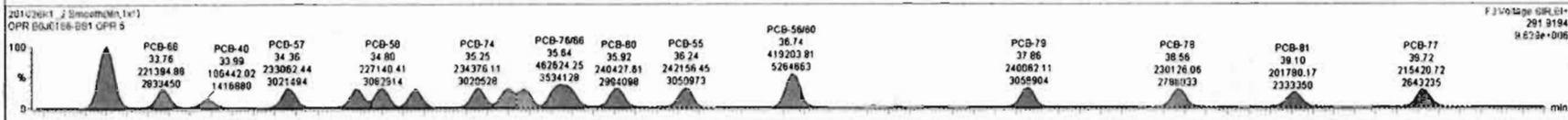
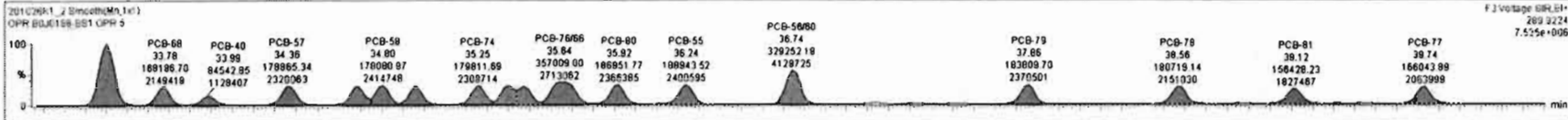
F3:Voltage SIR,EI+  
303.9597  
5.055e+006





#	Name	Resp	RA	ivly	RRF	wAve	Pred RT	RT	Pred R <sub>1</sub>	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	3rd Function Tri-PCBs				0.9926	5.000	0.00	0.000	0.000		NO	19790		23.9	19790
228	Total Tetra-PCBs				1.0778	5.000	0.00	0.000	0.000		NO	48460		80.9	48460
229	3rd Function Penta-PCBs				1.3157	5.000	0.00	0.000	0.000		NO	45250		33.9	45250
230	4th Function Penta-PCBs				1.0735	5.000	0.00	0.000	0.000		NO	6147		5.02	6147
231	3rd Function Hexa-PCBs				0.9505	5.000	0.00	0.000	0.000		NO	16310		17.7	16310
232	4th Function Hexa-PCBs				1.0316	5.000	0.00	0.000	0.000		NO	31840		36.5	31840
233	Total Hepta-PCBs				1.3551	5.000	0.00	0.000	0.000		NO	26090		36.1	26090
234	4th Function Octa-PCBs				1.0008	5.000	0.00	0.000	0.000		NO	9343		9.96	9343
235	5th Function Octa-PCBs				1.1499	5.000	0.00	0.000	0.000		NO	3430		3.73	3430

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	ivly	EMPC	Conc.
1	32 PCB-54	27.66	27.66	1.592e5	2.006e5	0.770	0.78	NO	1158.9	1158.9
2	33 PCB-50	28.67	28.66	1.316e5	1.704e5	0.770	0.77	NO	1184.9	1184.9
3	34 PCB-53	29.55	29.54	1.239e5	1.587e5	0.770	0.78	NO	1163.0	1163.0
4	35 PCB-51	29.80	29.80	1.295e5	1.864e5	0.770	0.78	NO	1140.0	1140.0
5	36 PCB-45	30.35	30.34	1.043e5	1.373e5	0.770	0.76	NO	1155.0	1155.0
6	37 PCB-46	30.85	30.84	9.965e4	1.295e5	0.770	0.77	NO	1131.8	1131.8
7	38 PCB-43	31.34	31.34	9.965e4	1.295e5	0.770	0.78	NO	1131.7	1131.7



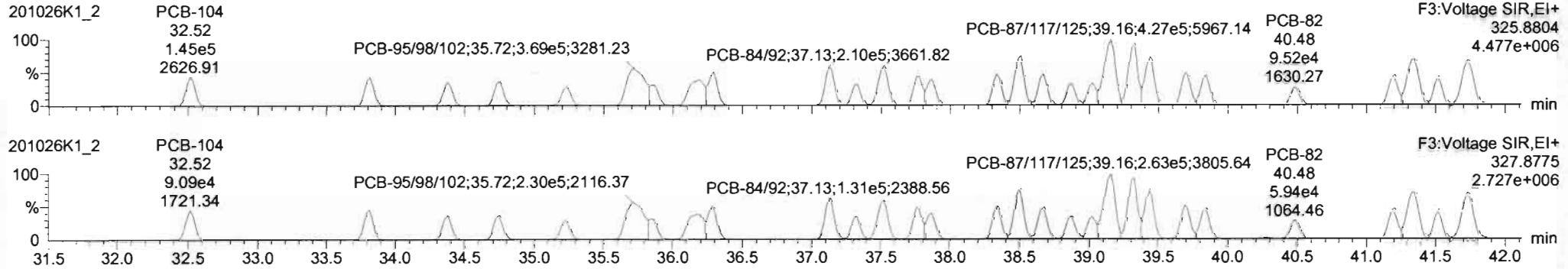
Dataset: Untitled

Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

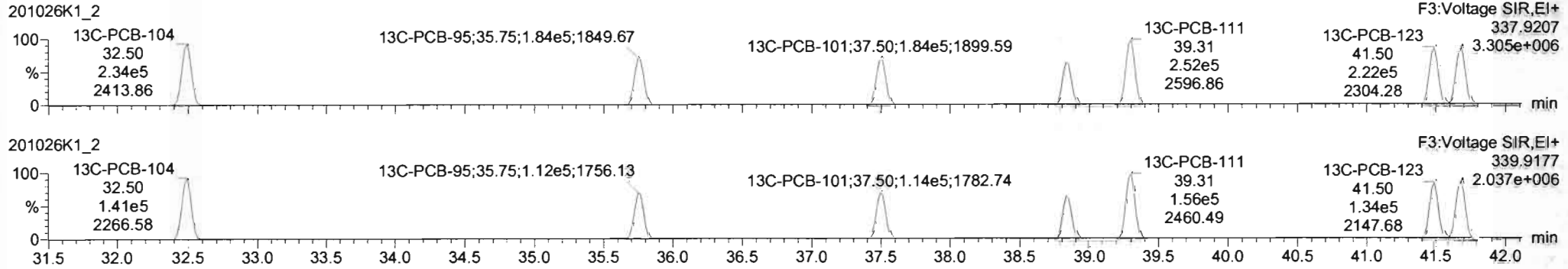
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

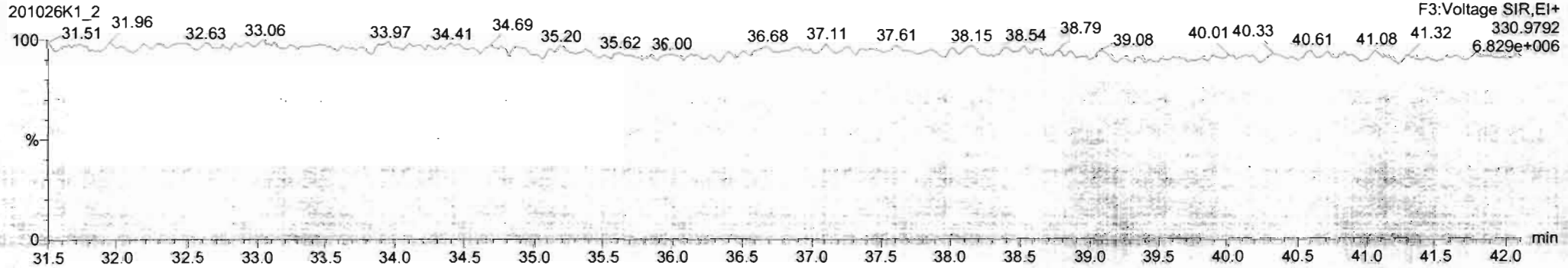
**PCB-104**



**13C-PCB-104**



**PFK3b**

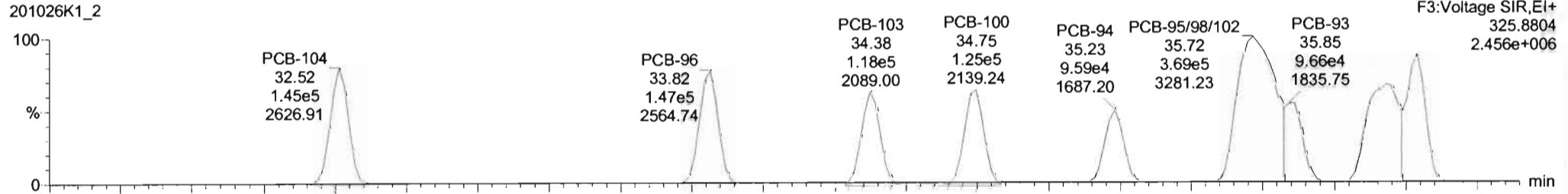


Dataset: Untitled

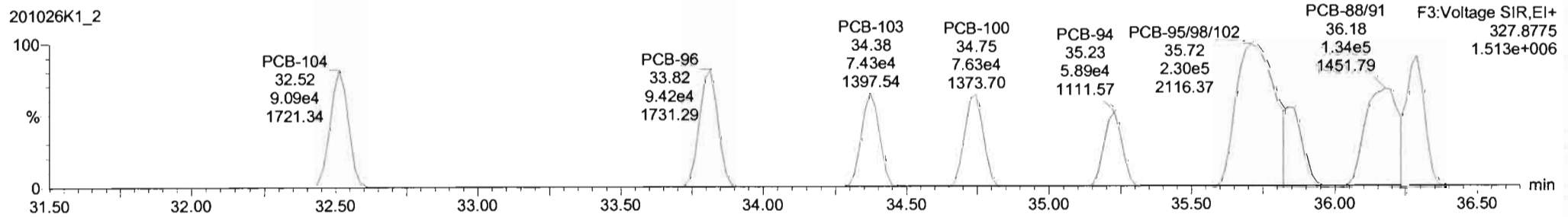
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time  
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

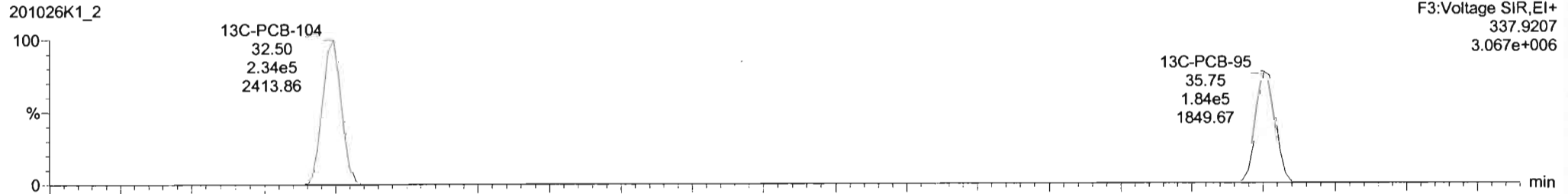
**PCB-96**



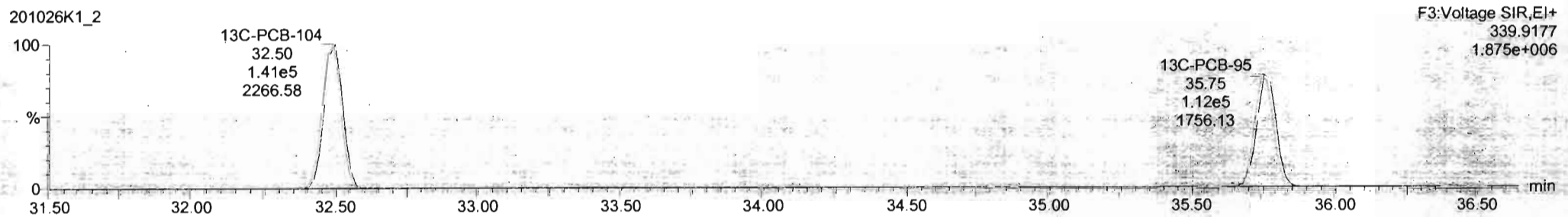
201026K1\_2



**13C-PCB-95**



201026K1\_2



Dataset: Untitled

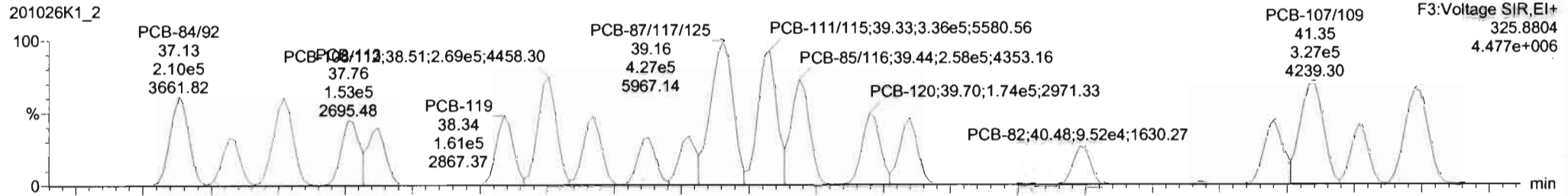
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

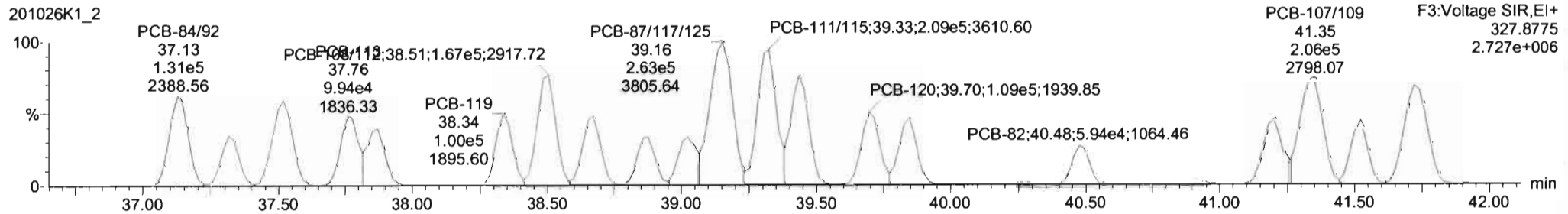
Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

**PCB-119**

201026K1\_2

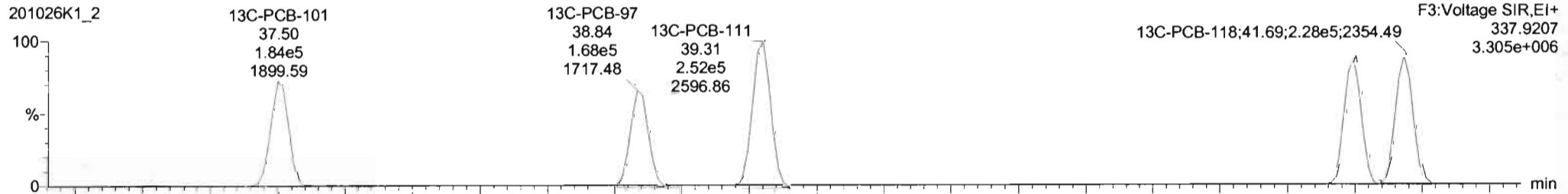


201026K1\_2

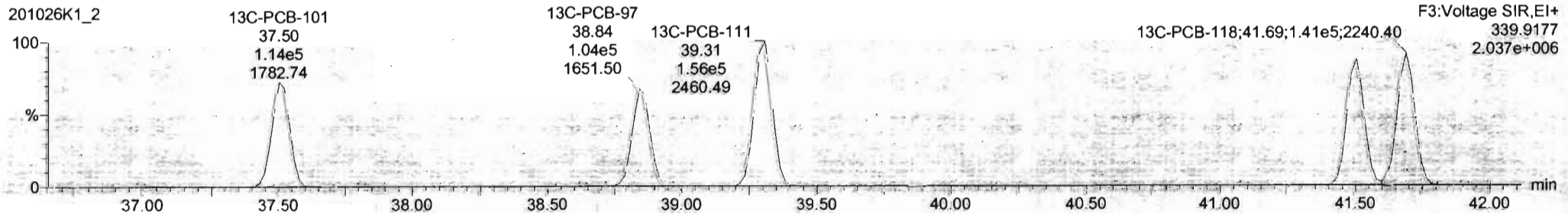


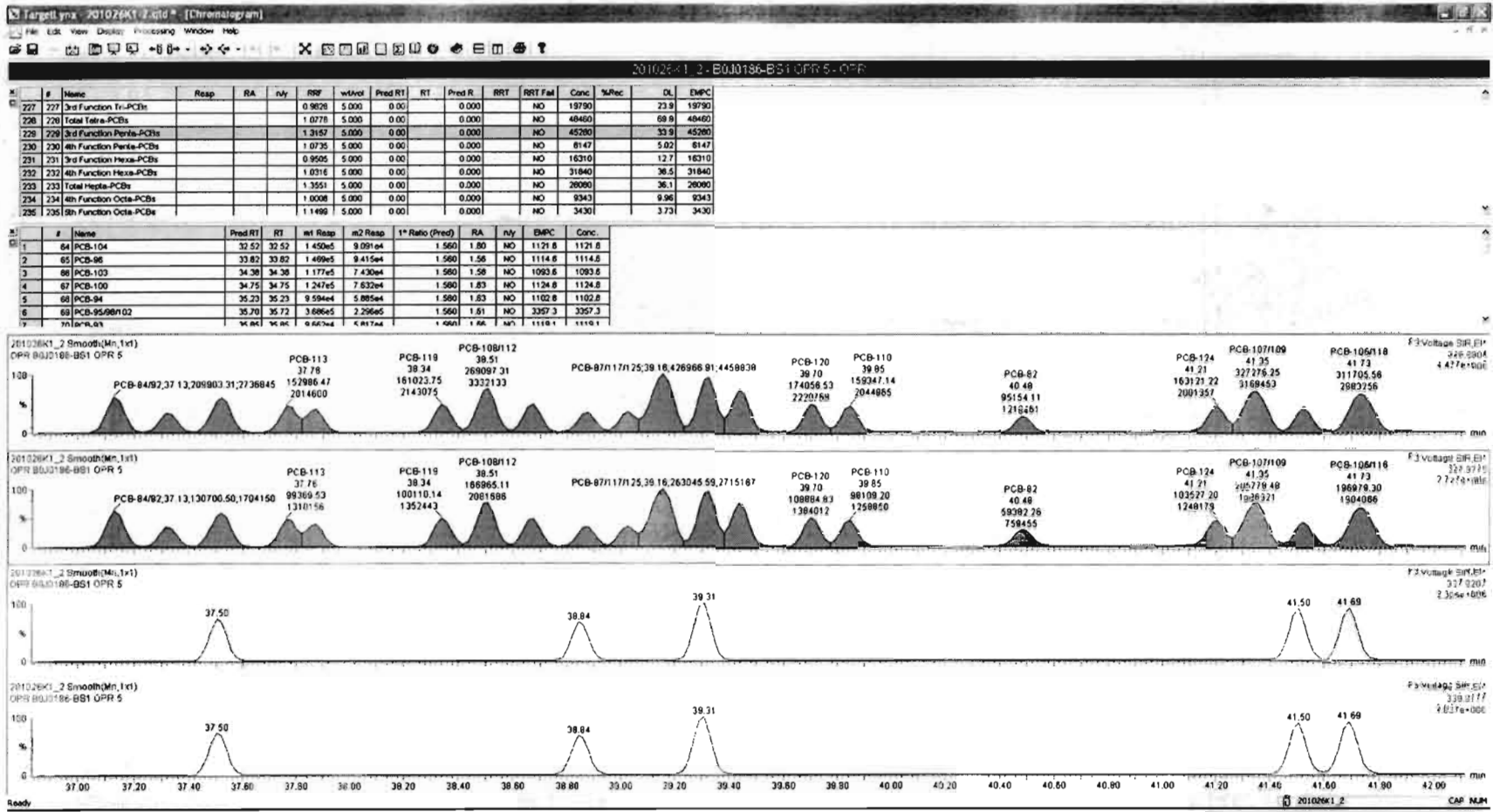
**13C-PCB-111**

201026K1\_2



201026K1\_2





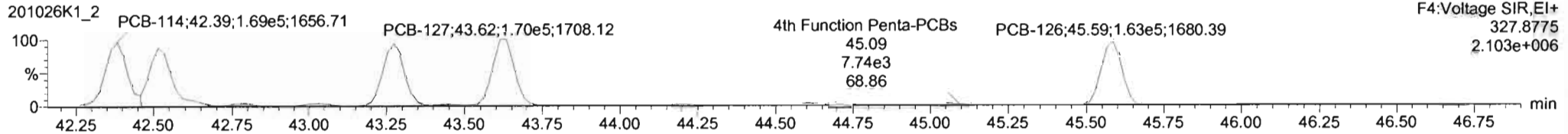
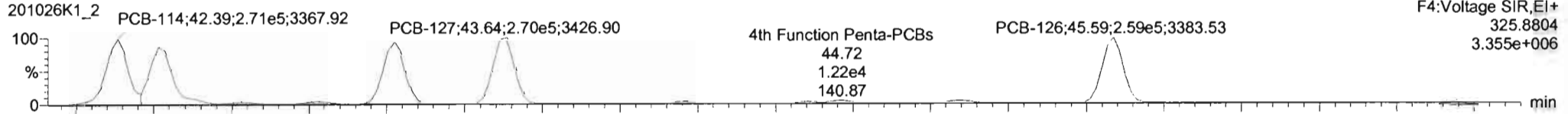
Dataset: Untitled

Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

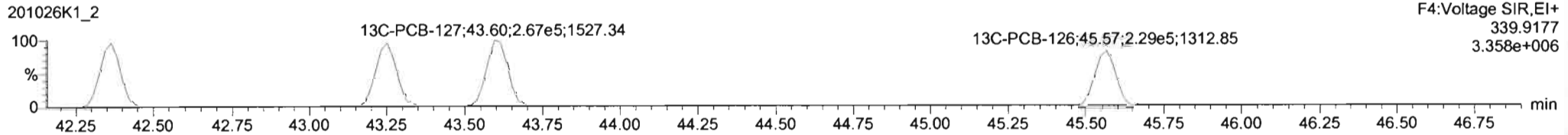
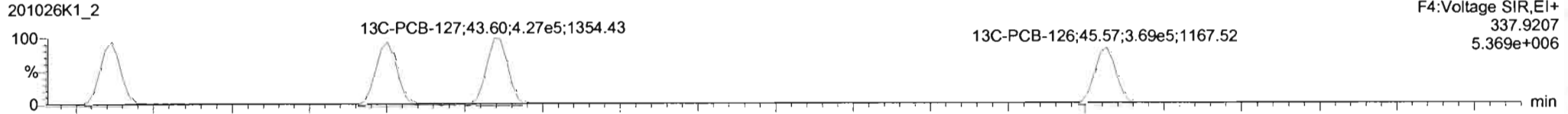
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

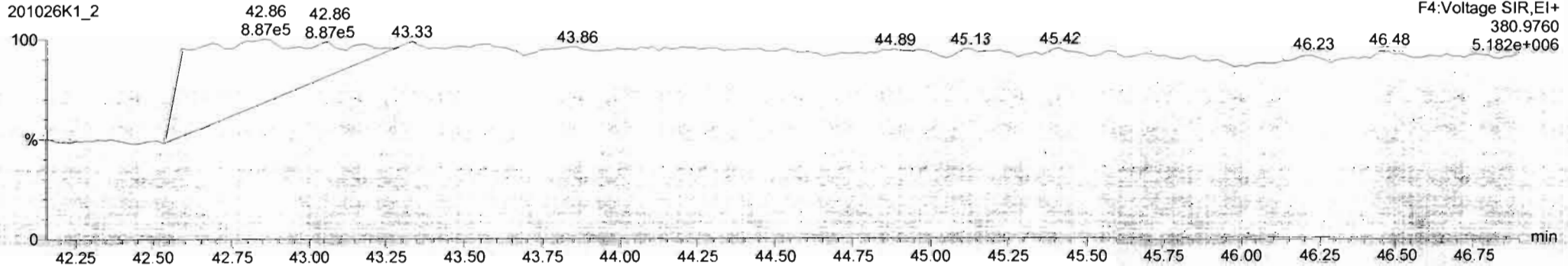
**PCB-114**

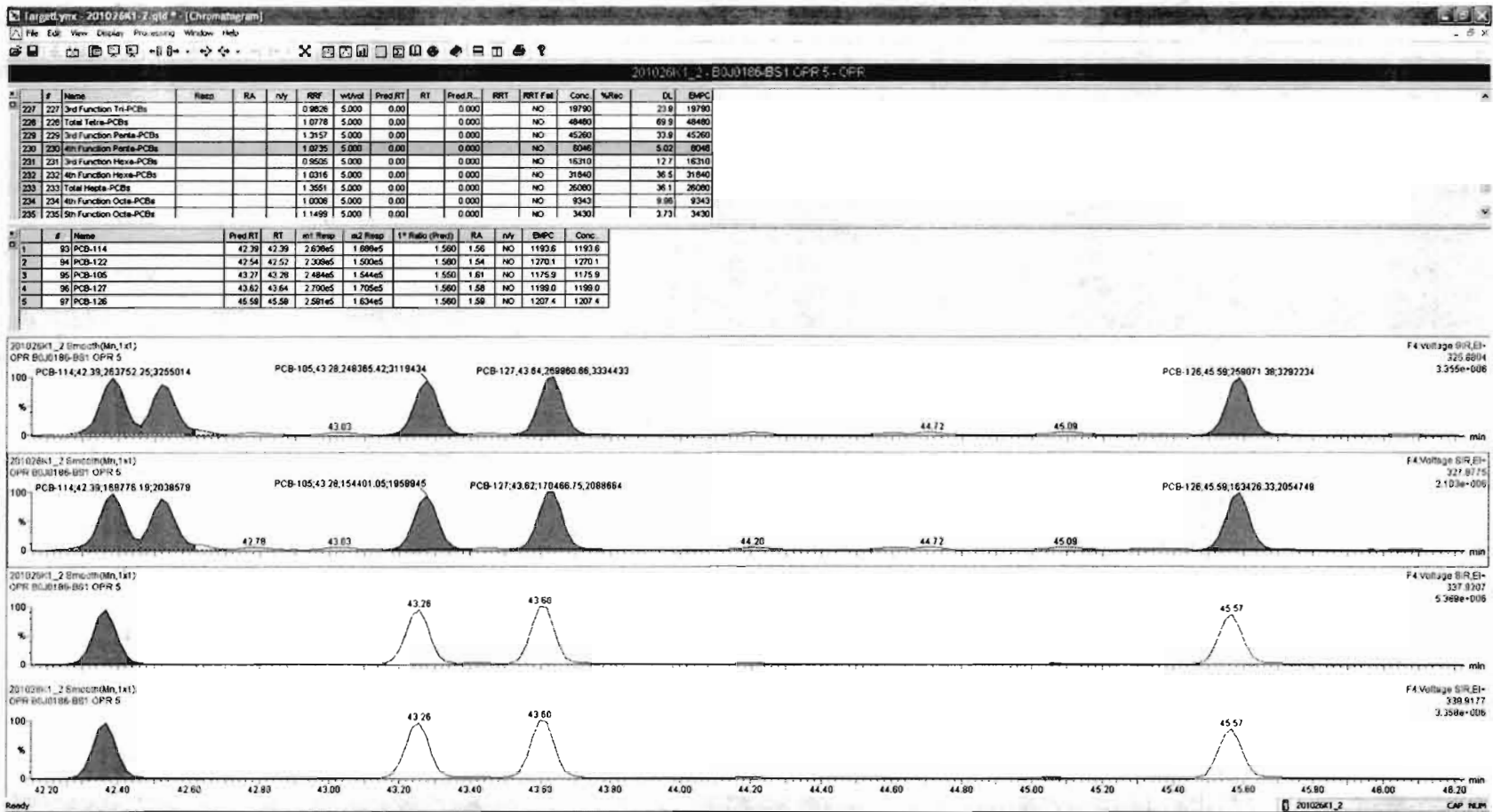


**13C-PCB-114**



**PFK4a**





Dataset: Untitled

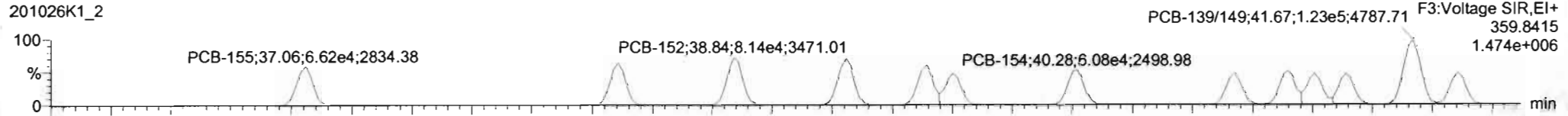
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

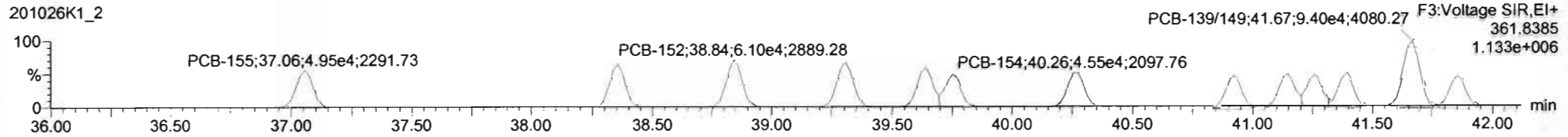
Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

**PCB-155**

201026K1\_2

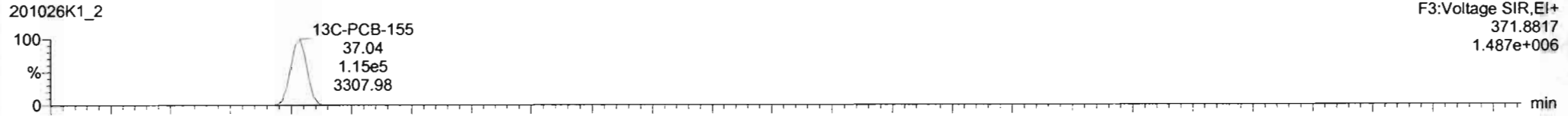


201026K1\_2

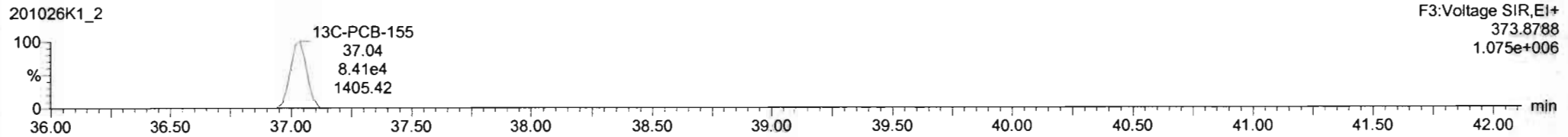


**13C-PCB-155**

201026K1\_2

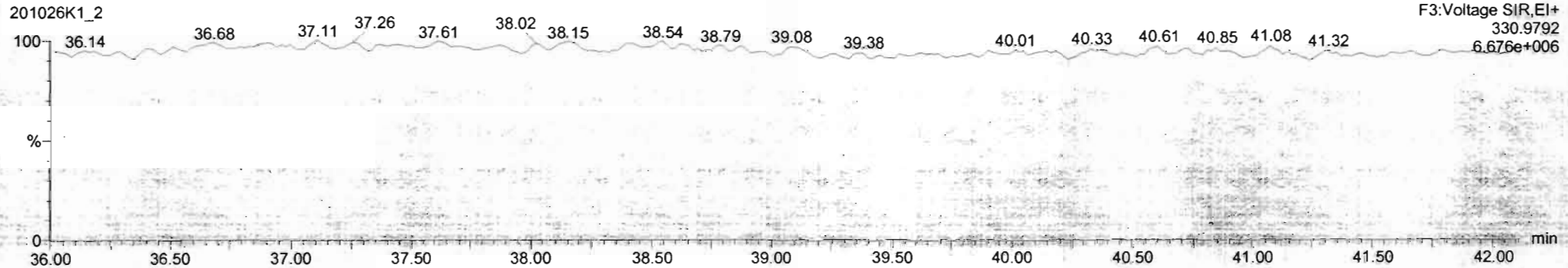


201026K1\_2



**PFK3c**

201026K1\_2



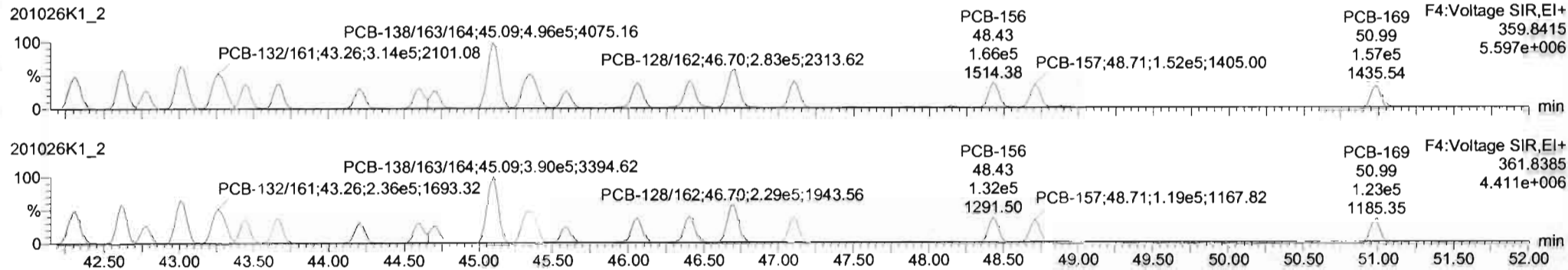


Dataset: Untitled

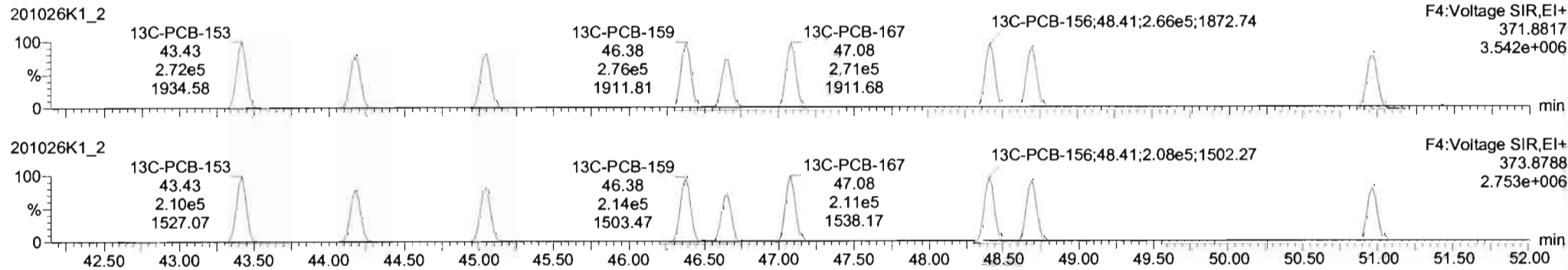
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time  
 Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

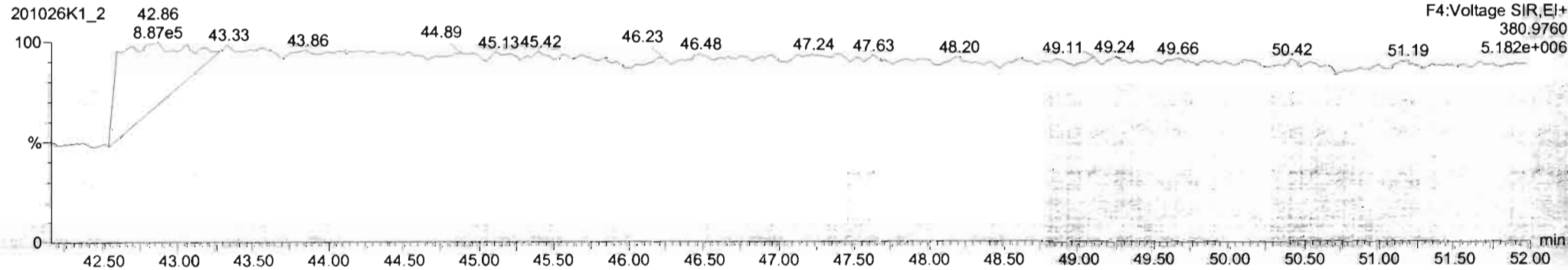
**PCB-134/143**



**13C-PCB-153**



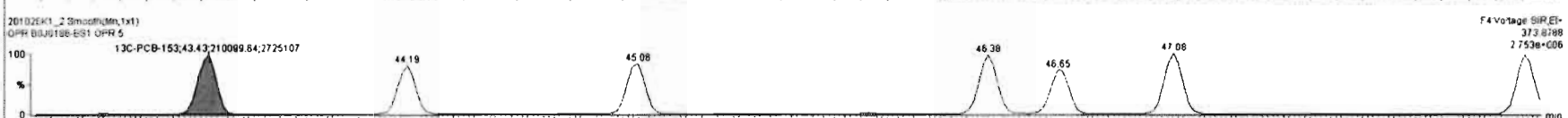
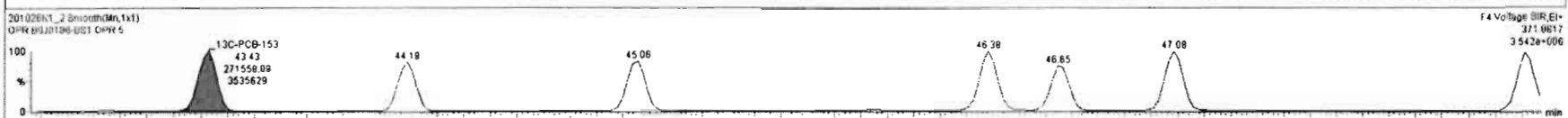
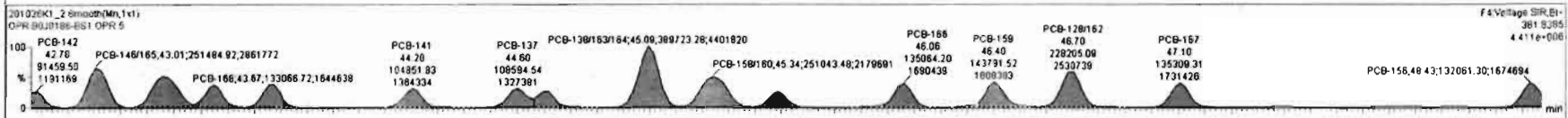
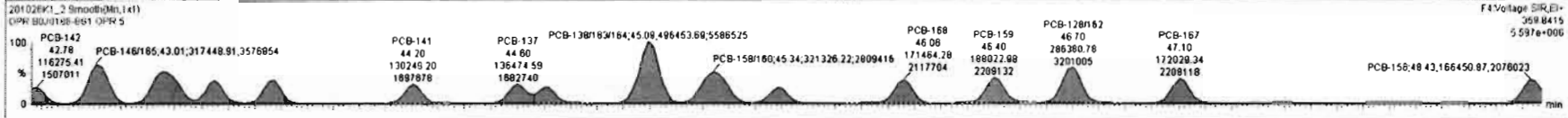
**PFK4b**



201026K1\_2 - BUJ0186-BS1 OPR 5 - OPR

#	Name	Resp	RA	nV	RRF	wtAvt	Pred RT	RT	Pred R	PRT	RRF Fal	Conc	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				0.9828	5.000	0.00		0.000		NO	19790	23.9	19790	
228	228 Total Tetra-PCBs				1.6778	5.000	0.00		0.000		NO	48460	69.9	48460	
229	229 3rd Function Penta-PCBs				1.3157	5.000	0.00		0.000		NO	45260	33.9	45260	
230	230 4th Function Penta-PCBs				1.0735	5.000	0.00		0.000		NO	6046	5.07	6046	
231	231 3rd Function Hexa-PCBs				0.9505	5.000	0.00		0.000		NO	18310	12.7	18310	
232	232 4th Function Hexa-PCBs				1.0318	5.000	0.00		0.000		NO	31870	36.5	31870	
233	233 Total Hepta-PCBs				1.2551	5.000	0.00		0.000		NO	26090	35.1	26090	
234	234 4th Function Octa-PCBs				1.0008	5.000	0.00		0.000		NO	8343	8.96	8343	
235	235 5th Function Octa-PCBs				1.1499	5.000	0.00		0.000		NO	3430	3.72	3430	

#	Name	Pred RT	RT	nt Resp	m2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc.
1	111 PCB-134/43	42.31	42.31	2.200e5	1.800e5	1.240	1.24	NO	2331.6	2331.6
2	112 PCB-131/43	42.63	42.61	2.504e5	2.031e5	1.240	1.26	NO	2324.5	2324.5
3	113 PCB-142	42.79	42.78	1.163e5	9.146e4	1.240	1.27	NO	1143.6	1143.6
4	114 PCB-146/61	43.03	43.01	3.174e5	2.515e5	1.240	1.26	NO	2323.8	2323.8
5	115 PCB-132/61	43.28	43.26	3.140e5	2.469e5	1.240	1.27	NO	2274.3	2274.3
6	116 PCB-153	43.44	43.45	1.625e5	1.299e5	1.240	1.25	NO	1134.0	1134.0
7	117 PCB-168	43.67	43.62	1.436e5	1.111e5	1.240	1.25	NO	1142.7	1142.7



Dataset: Untitled

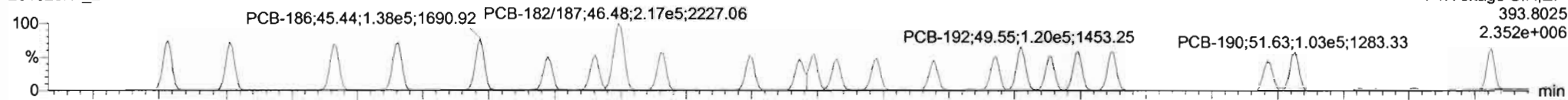
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

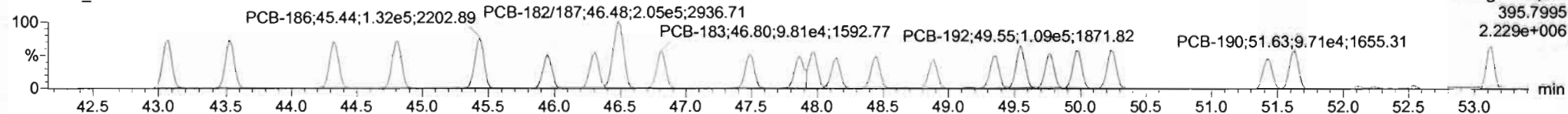
Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

**PCB-188**

201026K1\_2

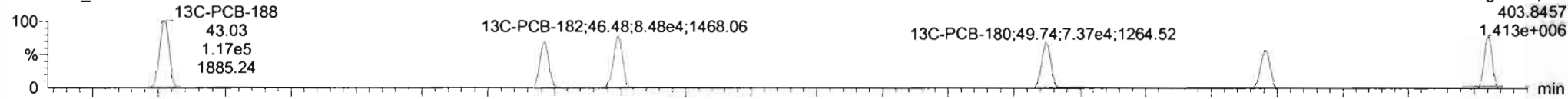


201026K1\_2

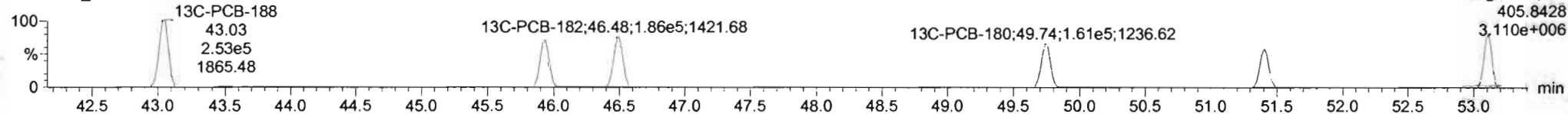


**13C-PCB-188**

201026K1\_2

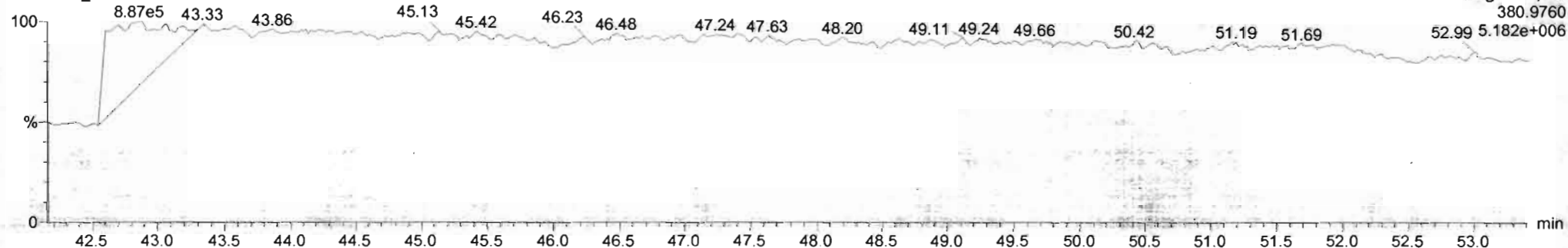


201026K1\_2



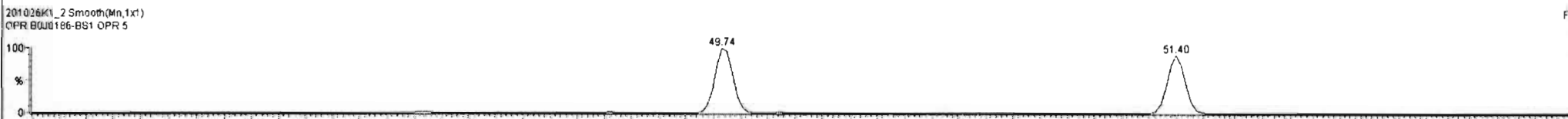
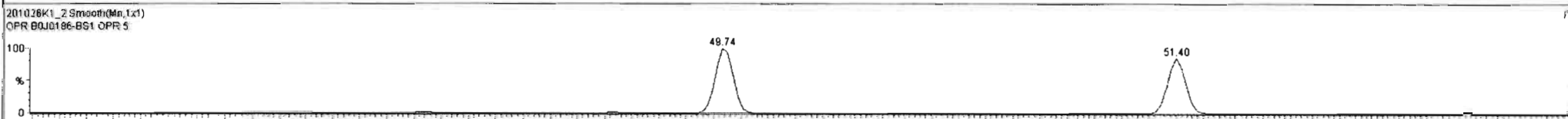
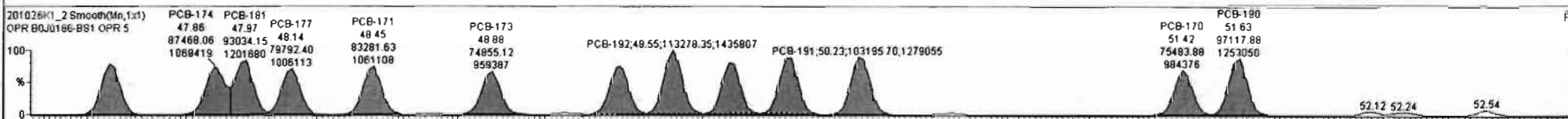
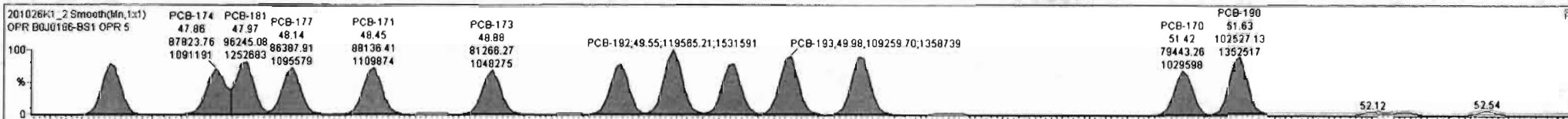
**PFK4c**

201026K1\_2



#	Name	Resp	RA	nly	RF	wt/Vol	Pred.RT	RT	Pred.R	RRT	RRT Fall	Conc	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				0.9828	5.000	0.00		0.000		NO	19790	23.9	19790	
228	228 Total Tetra-PCBs				1.0778	5.000	0.00		0.000		NO	48460	69.9	48460	
229	229 3rd Function Penta-PCBs				1.3157	5.000	0.00		0.000		NO	45260	33.9	45260	
230	230 4th Function Penta-PCBs				1.0735	5.000	0.00		0.000		NO	8046	5.02	8046	
231	231 3rd Function Hexa-PCBs				0.9505	5.000	0.00		0.000		NO	16310	12.7	16310	
232	232 4th Function Hexa-PCBs				1.0316	5.000	0.00		0.000		NO	31870	36.5	31870	
233	233 Total Hepta-PCBs				1.3651	5.000	0.00		0.000		NO	26170	36.1	26170	
234	234 4th Function Octa-PCBs				1.0008	5.000	0.00		0.000		NO	9343	9.96	9343	
235	235 5th Function Octa-PCBs				1.1499	5.000	0.00		0.000		NO	3430	3.73	3430	

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	131 PCB-188	43.07	43.07	1.344e5	1.261e5	1.050	1.07	NO	1090.9	1090.9
2	132 PCB-184	43.52	43.52	1.306e5	1.247e5	1.050	1.05	NO	1120.3	1120.3
3	133 PCB-179	44.32	44.32	1.291e5	1.232e5	1.050	1.05	NO	1049.9	1049.9
4	134 PCB-176	44.81	44.81	1.338e5	1.268e5	1.050	1.06	NO	1075.5	1075.5
5	135 PCB-188	45.43	45.44	1.381e5	1.321e5	1.050	1.05	NO	1098.3	1098.3
6	136 PCB-178	45.95	45.95	9.126e4	8.720e4	1.050	1.05	NO	1021.9	1021.9
7	137 PCB-175	46.31	46.31	9.477e4	9.332e4	1.050	1.07	NO	1067.4	1067.4



Dataset: Untitled

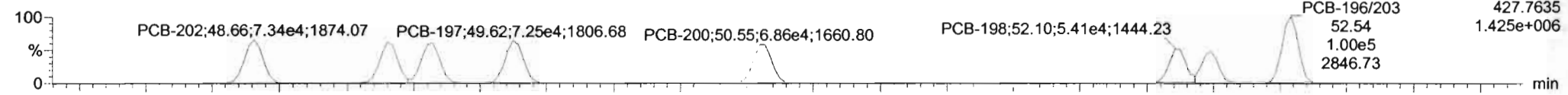
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

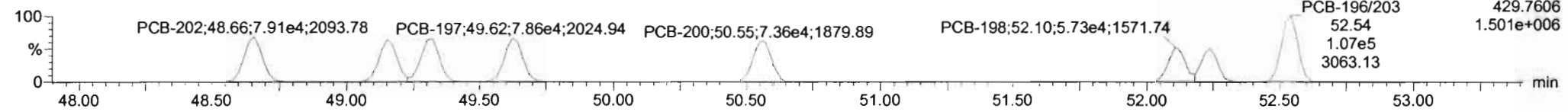
Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

**PCB-202**

201026K1\_2

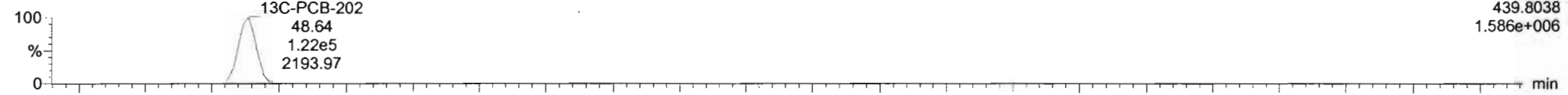


201026K1\_2

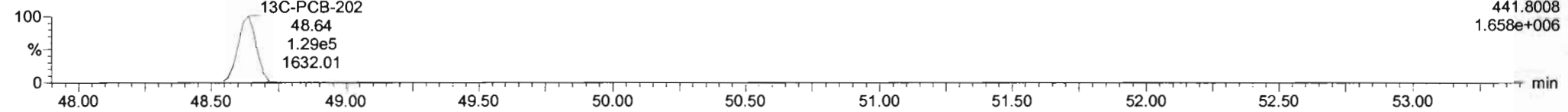


**13C-PCB-202**

201026K1\_2

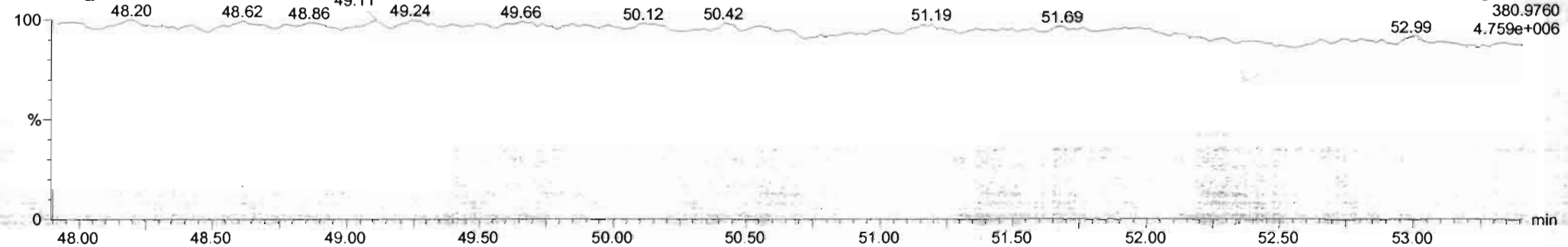


201026K1\_2



**PFK4d**

201026K1\_2



Dataset: Untitled

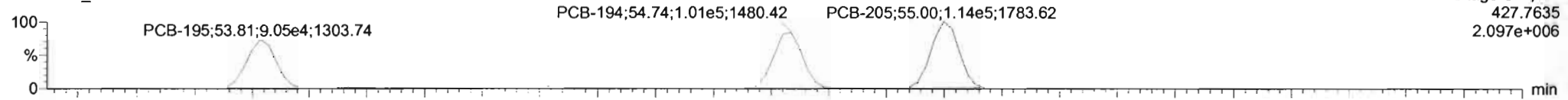
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

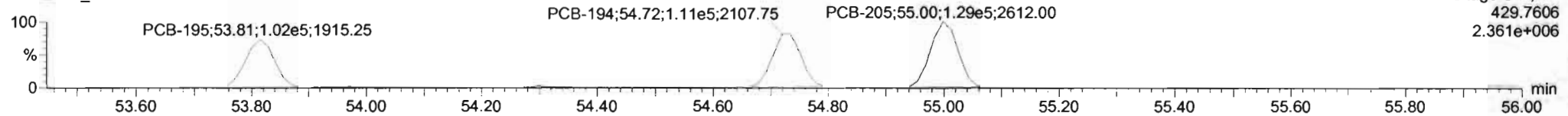
Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

**PCB-195**

201026K1\_2

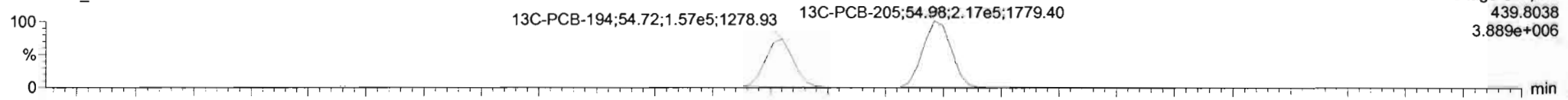


201026K1\_2

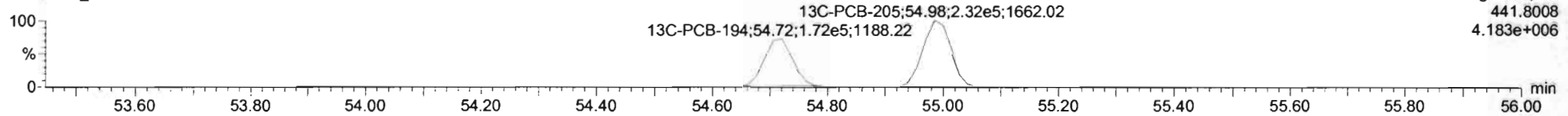


**13C-PCB-194**

201026K1\_2

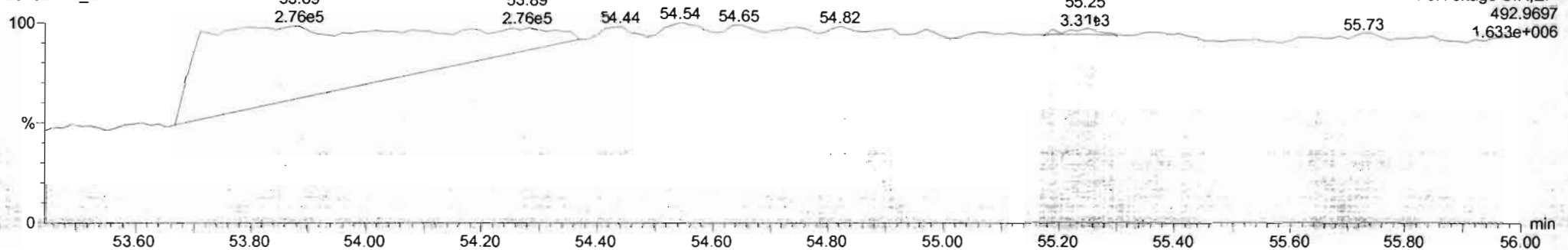


201026K1\_2



**PFK5a**

201026K1\_2



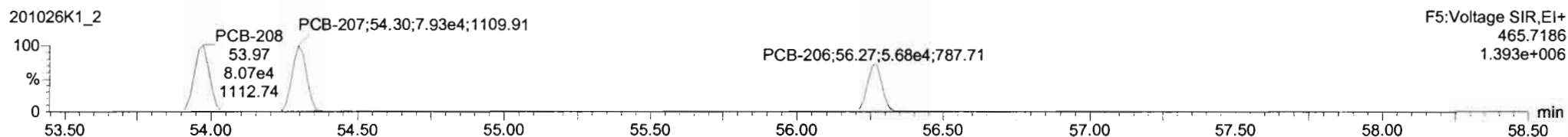
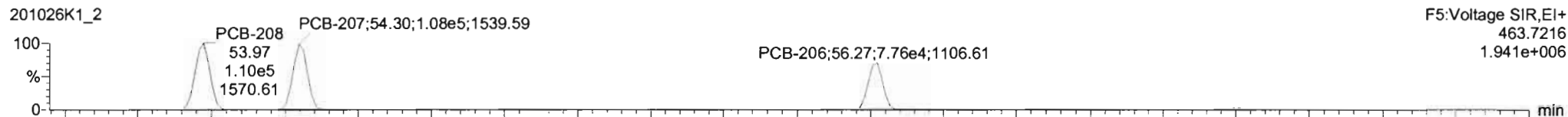
Dataset: Untitled

Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

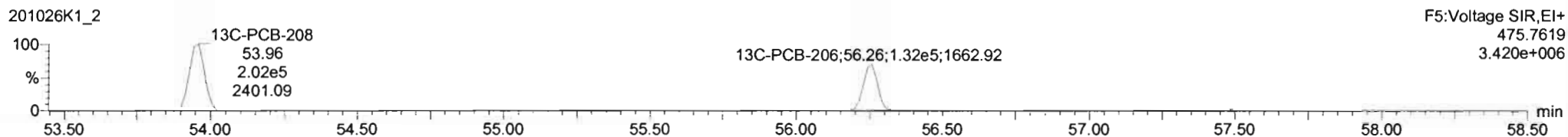
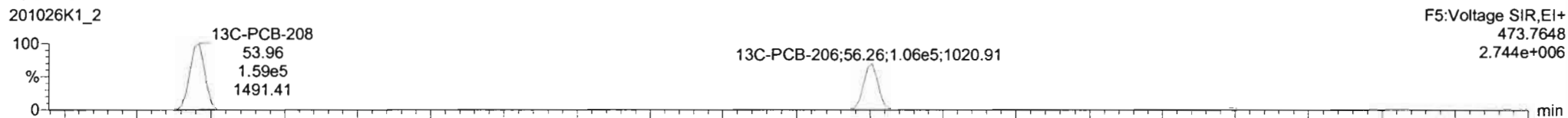
Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

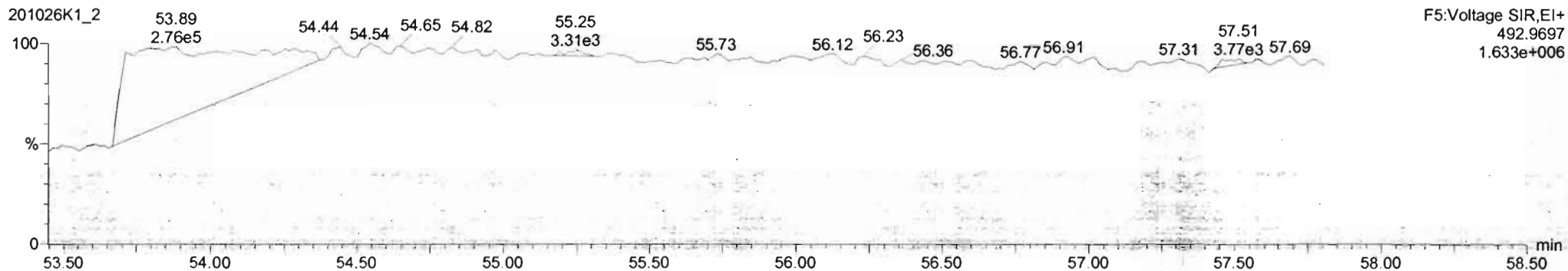
### PCB-208



### 13C-PCB-208



### PFK5



Dataset: Untitled

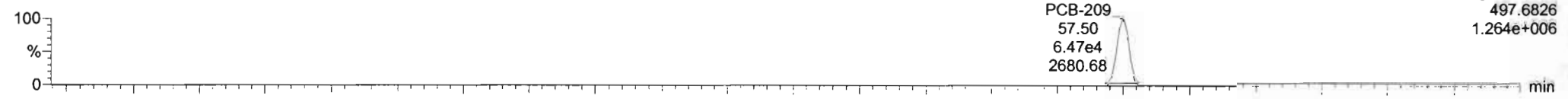
Last Altered: Monday, October 26, 2020 14:15:04 Pacific Daylight Time

Printed: Monday, October 26, 2020 14:15:20 Pacific Daylight Time

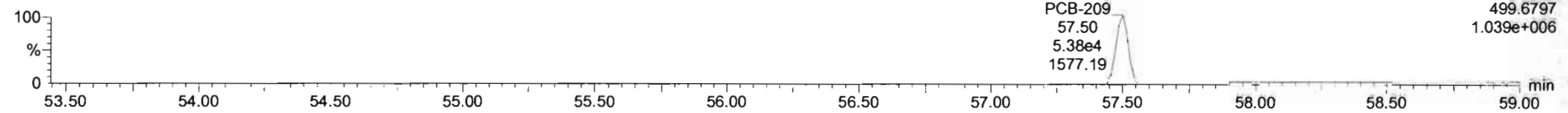
Name: 201026K1\_2, Date: 26-Oct-2020, Time: 10:33:32, ID: B0J0186-BS1 OPR 5, Description: OPR

**PCB-209**

201026K1\_2

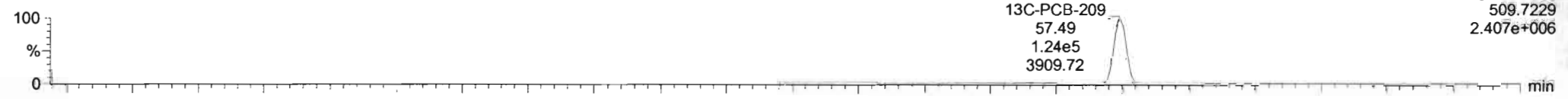


201026K1\_2

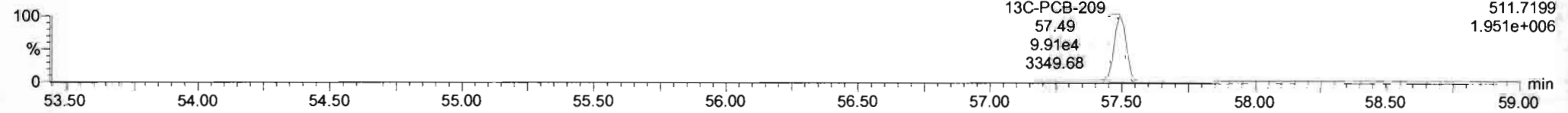


**13C-PCB-209**

201026K1\_2

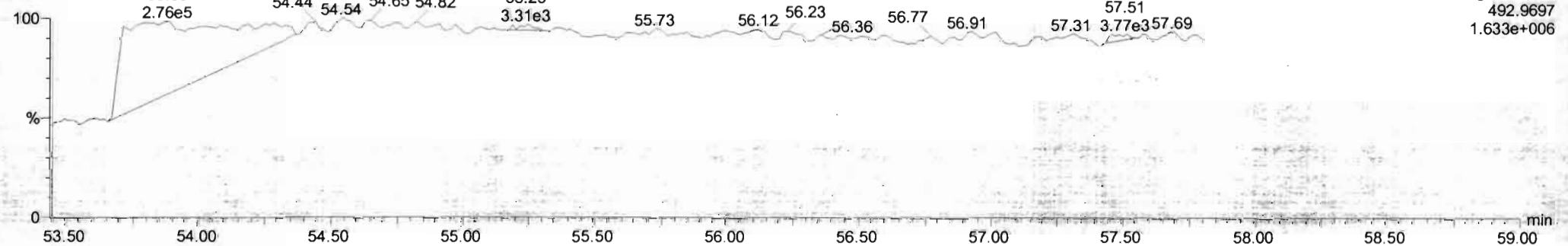


201026K1\_2



**PFK5b**

201026K1\_2





Dataset: U:\VG11.PRO\Results\201026K3\201026K3-7B.qld

Last Altered: Wednesday, November 04, 2020 11:28:40 Pacific Standard Time  
Printed: Wednesday, November 04, 2020 11:30:13 Pacific Standard Time

*DF 11/04/20 CT 11/13/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K3\_7, Date: 27-Oct-2020, Time: 16:58:48, ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	3.24e3	3.12	NO	1.17	5.012	15.61	15.61	1.001	1.001	NO	5.096		0.296	5.096
2	2 PCB-2	1.02e4	3.27	NO	1.18	5.012	18.03	18.02	0.988	0.988	NO	15.13		0.305	15.13
3	3 PCB-3	3.77e3	3.45	NO	1.15	5.012	18.26	18.26	1.001	1.001	NO	5.780		0.314	5.780
4	4 PCB-4/10	1.27e4	1.43	NO	1.25	5.012	19.68	19.62	1.004	1.001	NO	19.22		0.812	19.22
5	5 PCB-7/9	2.91e3	1.50	NO	0.960	5.012	21.48	21.46	1.003	1.002	NO	3.477		0.655	3.477
6	6 PCB-6	7.94e3	1.37	NO	1.02	5.012	22.13	22.14	1.033	1.033	NO	8.884		0.614	8.884
7	7 PCB-5/8	2.96e4	1.52	NO	0.992	5.012	22.54	22.53	1.052	1.052	NO	34.22		0.633	34.22
8	8 PCB-14			NO	1.02	5.012	23.68		0.951		YES			0.678	
9	9 PCB-11	7.90e4	1.64	NO	1.13	5.012	24.91	24.91	1.001	1.001	NO	80.81		0.612	80.81
10	10 PCB-12/13	6.72e3	1.40	NO	1.03	5.012	25.34	25.27	1.018	1.015	NO	7.540		0.672	7.540
11	11 PCB-15	3.76e4	1.59	NO	1.03	5.012	25.63	25.62	1.030	1.029	NO	41.92		0.666	41.92
12	12 PCB-19	8.34e3	1.04	NO	1.11	5.012	23.88	23.87	1.001	1.001	NO	21.52		0.725	21.52
13	13 PCB-30			NO	1.79	5.012	24.78		1.039		YES			0.447	
14	14 PCB-18	2.39e4	1.09	NO	0.818	5.012	25.53	25.54	0.952	0.952	NO	56.33		0.609	56.33
15	15 PCB-17	1.30e4	1.08	NO	0.758	5.012	25.72	25.72	0.959	0.959	NO	33.03		0.656	33.03
16	16 PCB-24/27	3.80e3	1.02	NO	1.08	5.012	26.32	26.29	0.981	0.980	NO	6.762		0.460	6.762
17	17 PCB-16/32	1.88e4	1.08	NO	0.925	5.012	26.85	26.85	1.001	1.001	NO	39.15		0.538	39.15
18	18 PCB-34	1.44e3	1.56	YES	0.945	5.012	27.66	27.68	0.959	0.959	NO	1.668		0.529	1.332
19	19 PCB-23			NO	0.883	5.012	27.75		0.962		YES			0.577	
20	20 PCB-29			NO	0.893	5.012	28.01		0.971		YES			0.570	
21	21 PCB-26	2.03e4	1.02	NO	0.944	5.012	28.24	28.24	0.979	0.979	NO	23.51		0.539	23.51
22	22 PCB-25	1.20e4	0.98	NO	0.950	5.012	28.39	28.40	0.984	0.985	NO	13.76		0.536	13.76
23	23 PCB-31	8.96e4	1.07	NO	1.04	5.012	28.77	28.76	0.997	0.997	NO	94.48		0.491	94.48
24	24 PCB-28	1.12e5	1.03	NO	1.03	5.012	28.87	28.87	1.001	1.001	NO	119.5		0.497	119.5
25	25 PCB-20/21/33	4.55e4	1.03	NO	0.941	5.012	29.51	29.52	1.023	1.023	NO	52.86		0.541	52.86
26	26 PCB-22	3.10e4	1.12	NO	0.973	5.012	29.95	29.97	1.038	1.039	NO	34.77		0.523	34.77
27	27 PCB-36			NO	1.08	5.012	30.60		0.931		YES			0.536	
28	28 PCB-39			NO	0.988	5.012	31.10		0.947		YES			0.584	
29	29 PCB-38	2.84e3	1.10	NO	1.05	5.012	31.88	31.90	0.970	0.971	NO	3.236		0.549	3.236
30	30 PCB-35	3.36e3	1.22	YES	1.04	5.012	32.43	32.44	0.987	0.988	NO	3.854		0.558	3.547
31	31 PCB-37	4.09e4	1.03	NO	1.01	5.012	32.87	32.89	1.001	1.001	NO	48.51		0.572	48.51
32	32 PCB-54	2.60e3	0.65	YES	1.08	5.012	27.70	27.72	1.001	1.001	NO	4.985		0.321	4.474

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-7B.qld

Last Altered: Wednesday, November 04, 2020 11:28:40 Pacific Standard Time

Printed: Wednesday, November 04, 2020 11:30:13 Pacific Standard Time

Name: 201026K3\_7, Date: 27-Oct-2020, Time: 16:58:48, ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	6.40e2	0.65	YES	0.880	5.012	28.91	28.91	1.044	1.044	NO	1.495		0.395	1.355
34	34 PCB-53	1.45e4	0.80	NO	0.997	5.012	29.58	29.58	0.944	0.944	NO	34.48		0.427	34.48
35	35 PCB-51	8.49e3	0.69	NO	1.07	5.012	29.93	29.93	0.955	0.955	NO	18.88		0.400	18.88
36	36 PCB-45	7.28e3	0.72	NO	0.858	5.012	30.38	30.38	0.969	0.969	NO	20.09		0.496	20.09
37	37 PCB-46	3.41e3	0.84	NO	0.831	5.012	30.88	30.88	0.985	0.985	NO	9.727		0.513	9.727
38	38 PCB-52/69	1.15e5	0.80	NO	1.17	5.012	31.38	31.36	1.001	1.001	NO	233.8		0.365	233.8
39	39 PCB-73	8.56e2	0.66	NO	1.44	5.012	31.49	31.47	1.005	1.004	NO	1.404		0.295	1.404
40	40 PCB-43/49	7.38e4	0.76	NO	1.02	5.012	31.67	31.68	1.010	1.011	NO	172.1		0.419	172.1
41	41 PCB-47	4.28e4	0.79	NO	0.922	5.012	31.90	31.90	1.001	1.001	NO	102.0		0.440	102.0
42	42 PCB-48/75	1.41e4	0.87	NO	1.12	5.012	32.01	32.03	1.004	1.005	NO	27.64		0.362	27.64
43	43 PCB-65			NO	1.28	5.012	32.29		1.013		YES			0.317	
44	44 PCB-62			NO	1.13	5.012	32.38		1.016		YES			0.360	
45	45 PCB-44	6.08e4	0.82	NO	0.824	5.012	32.72	32.72	1.026	1.026	NO	162.1		0.492	162.1
46	46 PCB-42/59	2.51e4	0.84	NO	1.05	5.012	32.94	32.94	1.033	1.033	NO	52.67		0.387	52.67
47	47 PCB-41/64/71/72	7.49e4	0.79	NO	1.19	5.012	33.56	33.54	1.053	1.052	NO	138.6		0.342	138.6
48	48 PCB-68	2.15e3	0.88	NO	1.28	5.012	33.82	33.82	1.061	1.061	NO	3.698		0.318	3.698
49	49 PCB-40	8.27e3	0.78	NO	0.602	5.012	34.04	34.02	1.067	1.067	NO	30.20		0.674	30.20
50	50 PCB-57	8.82e2	0.97	YES	1.16	5.012	34.40	34.41	0.969	0.970	NO	1.415		0.277	1.273
51	51 PCB-67	3.24e3	0.83	NO	1.08	5.012	34.71	34.73	0.978	0.979	NO	5.582		0.297	5.582
52	52 PCB-58	7.36e2	0.72	NO	1.20	5.012	34.84	34.84	0.982	0.982	NO	1.143		0.268	1.143
53	53 PCB-63	4.90e3	0.80	NO	1.07	5.012	34.99	35.01	0.986	0.986	NO	8.541		0.301	8.541
54	54 PCB-74	5.70e4	0.79	NO	1.19	5.012	35.29	35.29	0.994	0.994	NO	89.95		0.272	89.95
55	55 PCB-61/70	1.46e5	0.79	NO	1.05	5.012	35.51	35.51	1.000	1.001	NO	258.5		0.306	258.5
56	56 PCB-76/66	1.27e5	0.79	NO	1.16	5.012	35.70	35.74	1.006	1.007	NO	204.1		0.277	204.1
57	57 PCB-80			NO	1.19	5.012	35.97		1.001		YES			0.264	
58	58 PCB-55	2.56e3	0.82	NO	1.17	5.012	36.30	36.26	1.010	1.009	NO	3.902		0.268	3.902
59	59 PCB-56/60	6.83e4	0.80	NO	1.02	5.012	36.79	36.78	1.024	1.023	NO	119.6		0.308	119.6
60	60 PCB-79	3.58e3	0.84	NO	1.14	5.012	37.92	37.91	1.055	1.055	NO	5.603		0.276	5.603
61	61 PCB-78	7.24e2	0.66	NO	1.14	5.012	38.62	38.54	0.987	0.985	NO	1.171		0.303	1.171
62	62 PCB-81	1.17e3	0.90	YES	1.05	5.012	39.16	39.18	1.000	1.001	NO	2.061		0.329	1.925
63	63 PCB-77	1.50e4	0.77	NO	1.14	5.012	39.77	39.77	1.000	1.000	NO	25.43		0.311	25.43
64	64 PCB-104	3.71e2	1.07	YES	1.12	5.012	32.57	32.59	1.001	1.001	NO	1.079		0.410	0.9140
65	65 PCB-96	1.50e3	1.46	NO	1.15	5.012	33.88	33.85	1.041	1.040	NO	4.251		0.399	4.251
66	66 PCB-103	2.59e3	1.53	NO	0.936	5.012	34.43	34.41	1.058	1.057	NO	9.009		0.491	9.009
67	67 PCB-100	2.42e3	1.70	NO	0.954	5.012	34.81	34.79	1.069	1.069	NO	8.256		0.482	8.256
68	68 PCB-94	1.04e3	1.65	NO	0.949	5.012	35.27	35.27	0.985	0.985	NO	4.511		0.647	4.511

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-7B.qld

Last Altered: Wednesday, November 04, 2020 11:28:40 Pacific Standard Time  
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Name: 201026K3\_7, Date: 27-Oct-2020, Time: 16:58:48, ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	8.85e4	1.64	NO	1.20	5.012	35.74	35.83	0.999	1.001	NO	301.3		0.510	301.3
70	70 PCB-93			NO	0.935	5.012	35.89		1.003		YES			0.657	
71	71 PCB-88/91	1.79e4	1.59	NO	1.06	5.012	36.22	36.24	1.012	1.012	NO	69.13		0.577	69.13
72	72 PCB-121			NO	1.71	5.012	36.33		1.015		YES			0.359	
73	73 PCB-84/92	4.66e4	1.68	NO	1.02	5.012	37.17	37.17	0.990	0.990	NO	185.9		0.612	185.9
74	74 PCB-89	9.28e2	1.29	YES	1.11	5.012	37.36	37.35	0.995	0.995	NO	3.413		0.563	3.158
75	75 PCB-90/101	1.33e5	1.59	NO	1.12	5.012	37.55	37.58	1.000	1.001	NO	480.9		0.555	480.9
76	76 PCB-113	6.72e2	2.08	YES	1.51	5.012	37.80	37.82	1.007	1.007	NO	1.803		0.411	1.500
77	77 PCB-99	6.36e4	1.61	NO	1.32	5.012	37.90	37.91	1.010	1.010	NO	195.6		0.471	195.6
78	78 PCB-119	5.66e3	1.72	NO	1.81	5.012	38.38	38.38	0.987	0.987	NO	14.08		0.382	14.08
79	79 PCB-108/112	5.77e3	1.56	NO	1.44	5.012	38.53	38.56	0.991	0.992	NO	17.94		0.477	17.94
80	80 PCB-83			NO	1.83	5.012	38.71		0.996		YES			0.376	
81	81 PCB-97	3.28e4	1.64	NO	1.28	5.012	38.90	38.92	1.000	1.001	NO	115.1		0.538	115.1
82	82 PCB-86			NO	1.12	5.012	39.07		1.005		YES			0.617	
83	83 PCB-87/117/125	4.78e4	1.69	NO	1.56	5.012	39.19	39.20	1.008	1.008	NO	137.8		0.442	137.8
84	84 PCB-111/115	2.44e3	1.66	NO	1.91	5.012	39.35	39.35	1.012	1.012	NO	5.745		0.361	5.745
85	85 PCB-85/116	2.19e4	1.59	NO	1.41	5.012	39.47	39.47	1.015	1.015	NO	69.82		0.489	69.82
86	86 PCB-120	9.42e2	1.69	NO	2.01	5.012	39.74	39.76	1.022	1.023	NO	2.111		0.344	2.111
87	87 PCB-110	1.71e5	1.65	NO	1.74	5.012	39.89	39.88	1.026	1.026	NO	441.8		0.396	441.8
88	88 PCB-82	1.01e4	1.91	YES	0.781	5.012	40.52	40.52	0.975	0.975	NO	44.89		0.687	39.43
89	89 PCB-124	6.93e3	1.74	NO	1.40	5.012	41.23	41.24	0.993	0.993	NO	17.17		0.384	17.17
90	90 PCB-107/109	1.24e4	1.60	NO	1.34	5.012	41.37	41.41	0.996	0.997	NO	31.98		0.400	31.98
91	91 PCB-123	2.97e3	1.56	NO	1.20	5.012	41.56	41.56	1.000	1.000	NO	8.562		0.448	8.562
92	92 PCB-106/118	1.47e5	1.61	NO	1.22	5.012	41.76	41.75	1.001	1.000	NO	401.3		0.428	401.3
93	93 PCB-114	6.61e3	1.63	NO	1.14	5.012	42.43	42.42	1.000	1.000	NO	9.596		0.470	9.596
94	94 PCB-122	3.06e3	1.64	NO	0.944	5.012	42.57	42.56	1.004	1.004	NO	5.364		0.568	5.364
95	95 PCB-105	1.05e5	1.57	NO	1.05	5.012	43.31	43.31	1.000	1.000	NO	167.1		0.514	167.1
96	96 PCB-127			NO	1.06	5.012	43.67		1.000		YES			0.498	
97	97 PCB-126	1.96e3	1.65	NO	1.17	5.012	45.62	45.63	1.000	1.000	NO	3.078		0.530	3.078
98	98 PCB-155	1.06e2	1.64	YES	1.04	5.012	37.09	37.08	1.000	1.000	NO	0.5498		0.318	0.4669
99	99 PCB-150	4.14e2	1.36	NO	1.08	5.012	38.40	38.40	1.036	1.036	NO	2.059		0.306	2.059
100	100 PCB-152			NO	1.19	5.012	38.88		1.049		YES			0.279	
101	101 PCB-145			NO	1.19	5.012	39.35		1.061		YES			0.279	
102	102 PCB-136	1.43e4	1.25	NO	1.02	5.012	39.68	39.68	1.070	1.070	NO	75.82		0.325	75.82
103	103 PCB-148	3.02e2	0.81	YES	0.842	5.012	39.79	39.77	1.073	1.073	NO	1.934		0.364	1.565
104	104 PCB-154	2.18e3	1.61	YES	0.919	5.012	40.30	40.29	1.087	1.087	NO	12.78		0.361	10.98

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	1.97e4	1.27	NO	0.787	5.012	40.97	40.96	1.105	1.105	NO	134.9		0.422	134.9
106	1... PCB-135	1.21e4	1.39	NO	0.922	5.012	41.19	41.19	1.111	1.111	NO	70.84		0.359	70.84
107	1... PCB-144	3.04e3	1.29	NO	0.789	5.012	41.30	41.30	1.114	1.114	NO	20.79		0.420	20.79
108	1... PCB-147	1.82e3	1.06	NO	0.834	5.012	41.43	41.43	1.117	1.117	NO	11.74		0.397	11.74
109	1... PCB-139/149	7.09e4	1.29	NO	0.948	5.012	41.72	41.69	1.125	1.124	NO	403.2		0.350	403.2
110	1... PCB-140	6.10e2	1.48	YES	0.794	5.012	41.90	41.90	1.130	1.130	NO	4.14		0.418	3.747
111	1... PCB-134/143	1.01e4	1.36	NO	0.759	5.012	42.34	42.37	0.974	0.975	NO	31.78		0.694	31.78
112	1... PCB-131/133	6.70e3	1.14	NO	0.821	5.012	42.67	42.65	0.982	0.981	NO	19.59		0.642	19.59
113	1... PCB-142			NO	0.754	5.012	42.83		0.985		YES			0.698	
114	1... PCB-146/165	4.32e4	1.24	NO	1.02	5.012	43.07	43.07	0.991	0.991	NO	102.0		0.518	102.0
115	1... PCB-132/161	6.10e4	1.24	NO	1.02	5.012	43.31	43.33	0.997	0.997	NO	143.0		0.514	143.0
116	1... PCB-153	2.60e5	1.27	NO	1.07	5.012	43.48	43.48	1.000	1.000	NO	582.1		0.492	582.1
117	1... PCB-168			NO	1.08	5.012	43.71		1.006		YES			0.489	
118	1... PCB-141	3.85e4	1.25	NO	1.03	5.012	44.24	44.24	1.000	1.000	NO	112.7		0.636	112.7
119	1... PCB-137	8.20e3	1.23	NO	1.11	5.012	44.63	44.64	1.009	1.009	NO	22.19		0.588	22.19
120	1... PCB-130	9.53e3	1.26	NO	0.885	5.012	44.73	44.75	1.012	1.012	NO	32.35		0.737	32.35
121	1... PCB-138/163/164	2.77e5	1.28	NO	1.28	5.012	45.13	45.13	1.001	1.001	NO	632.9		0.514	632.9
122	1... PCB-158/160	2.67e4	1.20	NO	1.24	5.012	45.40	45.36	1.007	1.006	NO	63.05		0.532	63.05
123	1... PCB-129	6.80e3	1.12	NO	0.867	5.012	45.63	45.63	1.012	1.012	NO	23.01		0.761	23.01
124	1... PCB-166	9.53e2	0.75	YES	1.14	5.012	46.10	46.10	0.993	0.993	NO	1.975		0.477	1.528
125	1... PCB-159			NO	1.22	5.012	46.45		1.001		YES			0.449	
126	1... PCB-128/162	3.58e4	1.23	NO	0.907	5.012	46.73	46.72	1.007	1.007	NO	93.52		0.601	93.52
127	1... PCB-167	1.14e4	1.38	NO	1.11	5.012	47.14	47.14	1.000	1.000	NO	24.17		0.489	24.17
128	1... PCB-156	2.55e4	1.29	NO	1.13	5.012	48.49	48.49	1.000	1.000	NO	56.57		0.514	56.57
129	1... PCB-157	5.77e3	1.39	NO	1.04	5.012	48.75	48.75	1.000	1.000	NO	13.80		0.532	13.80
130	1... PCB-169			NO	1.16	5.012	51.05		1.000		YES			0.571	
131	1... PCB-188	3.37e2	0.65	YES	1.29	5.012	43.11	43.09	1.001	1.000	NO	0.9247		0.476	0.7122
132	1... PCB-184	3.91e2	0.91	NO	1.23	5.012	43.56	43.56	1.011	1.011	NO	1.122		0.499	1.122
133	1... PCB-179	2.81e4	1.05	NO	1.30	5.012	44.36	44.36	1.030	1.030	NO	76.75		0.473	76.75
134	1... PCB-176	7.15e3	1.04	NO	1.31	5.012	44.85	44.83	1.041	1.041	NO	19.35		0.469	19.35
135	1... PCB-186	1.32e2	1.43	YES	1.33	5.012	45.47	45.49	1.056	1.056	NO	0.3510		0.482	0.2965
136	1... PCB-178	1.07e4	1.03	NO	0.943	5.012	45.99	45.99	1.068	1.068	NO	40.28		0.651	40.28
137	1... PCB-175	1.78e3	0.95	NO	0.956	5.012	46.35	46.35	1.076	1.076	NO	6.596		0.642	6.596
138	1... PCB-182/187	6.72e4	1.05	NO	1.07	5.012	46.52	46.50	1.080	1.080	NO	223.1		0.576	223.1
139	1... PCB-183	2.65e4	1.03	NO	1.02	5.012	46.84	46.86	1.088	1.088	NO	91.56		0.600	91.56
140	1... PCB-185	5.15e3	0.95	NO	1.41	5.012	47.53	47.52	0.955	0.954	NO	19.54		0.649	19.54

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	4.16e4	1.08	NO	1.35	5.012	47.91	47.90	0.962	0.962	NO	163.9		0.674	163.9
142	1... PCB-181	8.28e2	1.06	NO	1.47	5.012	48.02	47.99	0.964	0.964	NO	2.997		0.619	2.997
143	1... PCB-177	2.64e4	1.08	NO	1.28	5.012	48.20	48.18	0.968	0.968	NO	110.2		0.714	110.2
144	1... PCB-171	1.21e4	1.04	NO	1.32	5.012	48.50	48.49	0.974	0.974	NO	48.98		0.693	48.98
145	1... PCB-173	8.45e2	1.60	YES	1.19	5.012	48.93	48.94	0.983	0.983	NO	3.767		0.706	2.991
146	1... PCB-172	7.70e3	1.03	NO	1.38	5.012	49.39	49.40	0.992	0.992	NO	29.88		0.663	29.88
147	1... PCB-192			NO	1.83	5.012	49.60		0.996		YES			0.499	
148	1... PCB-180	1.04e5	1.08	NO	1.41	5.012	49.81	49.81	1.000	1.000	NO	392.7		0.646	392.7
149	1... PCB-193	6.85e3	1.04	NO	1.68	5.012	50.03	50.02	1.005	1.005	NO	21.80		0.544	21.80
150	1... PCB-191	2.12e3	1.06	NO	1.71	5.012	50.29	50.29	1.010	1.010	NO	6.620		0.533	6.620
151	1... PCB-170	3.80e4	1.09	NO	1.40	5.012	51.48	51.48	1.000	1.000	NO	170.1		0.764	170.1
152	1... PCB-190	1.02e4	1.01	NO	1.85	5.012	51.69	51.67	1.005	1.004	NO	34.41		0.578	34.41
153	1... PCB-189	2.06e3	0.91	NO	1.45	5.012	53.17	53.17	1.000	1.000	NO	7.183		0.522	7.183
154	1... PCB-202	4.84e3	0.91	NO	1.17	5.012	48.71	48.69	1.001	1.000	NO	20.62		0.616	20.62
155	1... PCB-201	2.88e3	1.06	YES	1.05	5.012	49.19	49.21	1.010	1.011	NO	13.80		0.683	12.46
156	1... PCB-204			NO	1.14	5.012	49.34		1.014		YES			0.631	
157	1... PCB-197	8.72e2	0.68	YES	1.13	5.012	49.65	49.66	1.020	1.020	NO	3.827		0.625	3.300
158	1... PCB-200	2.33e3	0.80	NO	1.07	5.012	50.59	50.61	1.039	1.040	NO	10.83		0.672	10.83
159	1... PCB-198	9.85e2	0.81	NO	0.794	5.012	52.14	52.20	1.071	1.072	NO	6.167		0.906	6.167
160	1... PCB-199	1.58e4	0.86	NO	0.809	5.012	52.28	52.27	1.074	1.074	NO	97.14		0.889	97.14
161	1... PCB-196/203	1.75e4	0.89	NO	0.838	5.012	52.57	52.58	1.080	1.080	NO	103.8		0.858	103.8
162	1... PCB-195	9.04e3	0.86	NO	1.04	5.012	53.86	53.86	0.984	0.984	NO	32.87		0.623	32.87
163	1... PCB-194	2.53e4	0.94	NO	1.12	5.012	54.77	54.76	1.000	1.000	NO	86.04		0.583	86.04
164	1... PCB-205	1.12e3	0.86	NO	1.29	5.012	55.04	55.03	1.005	1.005	NO	3.307		0.505	3.307
165	1... PCB-208	5.47e3	1.30	NO	0.933	5.012	54.01	54.00	1.000	1.000	NO	21.45		0.432	21.45
166	1... PCB-207	2.13e3	1.52	NO	0.916	5.012	54.33	54.34	1.006	1.007	NO	8.478		0.440	8.478
167	1... PCB-206	1.15e4	1.42	NO	1.01	5.012	56.32	56.32	1.000	1.000	NO	63.66		0.594	63.66
168	1... PCB-209	1.59e4	1.17	NO	0.986	5.012	57.53	57.54	1.000	1.000	NO	93.53		0.432	93.53
169	1... 13C-PCB-1	1.08e6	3.25	NO	0.893	5.012	15.59	15.60	0.609	0.609	NO	1120	56.1	1.36	
170	1... 13C-PCB-3	1.13e6	3.44	NO	0.911	5.012	18.24	18.25	0.712	0.713	NO	1147	57.5	1.33	
171	1... 13C-PCB-4	1.06e6	1.64	NO	0.600	5.012	19.61	19.60	0.766	0.765	NO	1630	81.7	0.689	
172	1... 13C-PCB-9	1.74e6	1.62	NO	0.970	5.012	21.42	21.42	0.837	0.837	NO	1658	83.1	0.427	
173	1... 13C-PCB-11	1.73e6	1.60	NO	0.962	5.012	24.88	24.89	0.972	0.972	NO	1661	83.3	0.430	
174	1... 13C-PCB-19	6.99e5	1.07	NO	0.499	5.012	23.84	23.85	0.931	0.931	NO	1293	64.8	5.73	
175	1... 13C-PCB-32	1.04e6	1.06	NO	0.744	5.012	26.83	26.83	1.048	1.048	NO	1285	64.4	3.84	
176	1... 13C-PCB-28	1.83e6	1.11	NO	1.06	5.012	28.85	28.85	1.004	1.004	NO	1826	91.5	4.54	

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177	1... 13C-PCB-37	1.67e6	1.09	NO	0.989	5.012	32.84	32.85	1.143	1.143	NO	1793	89.8	4.89	
178	1... 13C-PCB-54	9.72e5	0.81	NO	0.999	5.012	27.68	27.68	0.753	0.753	NO	1612	80.8	1.39	
179	1... 13C-PCB-52	8.43e5	0.79	NO	0.804	5.012	31.35	31.34	0.853	0.852	NO	1736	87.0	1.73	
180	1... 13C-PCB-47	9.08e5	0.82	NO	0.857	5.012	31.88	31.88	0.867	0.867	NO	1754	87.9	1.62	
181	1... 13C-PCB-70	1.07e6	0.84	NO	0.996	5.012	35.50	35.49	0.965	0.965	NO	1776	89.0	1.39	
182	1... 13C-PCB-80	1.12e6	0.81	NO	1.03	5.012	35.94	35.94	0.977	0.977	NO	1804	90.4	1.35	
183	1... 13C-PCB-81	1.08e6	0.81	NO	0.988	5.012	39.14	39.14	1.064	1.064	NO	1819	91.2	1.41	
184	1... 13C-PCB-77	1.04e6	0.83	NO	0.969	5.012	39.76	39.76	1.081	1.081	NO	1776	89.0	1.43	
185	1... 13C-PCB-104	6.12e5	1.64	NO	1.02	5.012	32.52	32.55	0.827	0.827	NO	1772	88.8	1.19	
186	1... 13C-PCB-95	4.86e5	1.64	NO	0.805	5.012	35.78	35.79	0.910	0.910	NO	1777	89.0	1.50	
187	1... 13C-PCB-101	4.91e5	1.65	NO	0.793	5.012	37.54	37.54	0.954	0.954	NO	1822	91.3	1.52	
188	1... 13C-PCB-97	4.44e5	1.67	NO	0.696	5.012	38.87	38.88	0.988	0.988	NO	1875	94.0	1.73	
189	1... 13C-PCB-123	5.77e5	1.63	NO	0.933	5.012	41.54	41.54	1.056	1.056	NO	1819	91.1	1.29	
190	1... 13C-PCB-118	5.99e5	1.66	NO	0.986	5.012	41.73	41.73	1.061	1.061	NO	1787	89.5	1.22	
191	1... 13C-PCB-114	1.20e6	1.63	NO	1.55	5.012	42.40	42.40	0.908	0.908	NO	2346	118	1.50	
192	1... 13C-PCB-105	1.19e6	1.63	NO	1.57	5.012	43.31	43.29	0.927	0.927	NO	2286	115	1.47	
193	1... 13C-PCB-127	1.26e6	1.63	NO	1.62	5.012	43.65	43.65	0.935	0.935	NO	2336	117	1.42	
194	1... 13C-PCB-126	1.08e6	1.63	NO	1.57	5.012	45.61	45.61	0.976	0.976	NO	2080	104	1.48	
195	1... 13C-PCB-155	3.70e5	1.33	NO	0.615	5.012	37.07	37.08	0.942	0.942	NO	1770	88.7	0.461	
196	1... 13C-PCB-153	8.32e5	1.29	NO	1.36	5.012	43.46	43.47	0.930	0.931	NO	1836	92.0	1.28	
197	1... 13C-PCB-141	6.64e5	1.25	NO	1.13	5.012	44.24	44.22	0.947	0.947	NO	1773	88.9	1.55	
198	1... 13C-PCB-138	6.80e5	1.28	NO	1.18	5.012	45.09	45.10	0.965	0.966	NO	1729	86.7	1.47	
199	1... 13C-PCB-159	8.42e5	1.29	NO	1.44	5.012	46.43	46.42	0.994	0.994	NO	1762	88.3	1.21	
200	2... 13C-PCB-167	8.45e5	1.29	NO	1.44	5.012	47.13	47.12	1.009	1.009	NO	1768	88.6	1.21	
201	2... 13C-PCB-156	8.00e5	1.31	NO	1.40	5.012	48.47	48.47	1.038	1.038	NO	1725	86.5	1.25	
202	2... 13C-PCB-157	8.03e5	1.32	NO	1.40	5.012	48.76	48.73	1.044	1.043	NO	1732	86.8	1.25	
203	2... 13C-PCB-169	7.04e5	1.33	NO	1.33	5.012	51.03	51.03	1.093	1.092	NO	1593	79.8	1.31	
204	2... 13C-PCB-188	5.64e5	0.47	NO	1.41	5.012	43.06	43.07	0.926	0.926	NO	1789	89.6	0.975	
205	2... 13C-PCB-180	3.74e5	0.48	NO	0.929	5.012	49.78	49.79	1.070	1.070	NO	1801	90.3	1.48	
206	2... 13C-PCB-170	3.18e5	0.47	NO	0.794	5.012	51.44	51.46	1.106	1.106	NO	1792	89.8	1.73	
207	2... 13C-PCB-189	3.93e5	0.45	NO	1.04	5.012	53.15	53.15	1.143	1.143	NO	1684	84.4	1.32	
208	2... 13C-PCB-202	4.01e5	0.93	NO	1.04	5.012	48.68	48.67	1.046	1.046	NO	1733	86.8	0.641	
209	2... 13C-PCB-194	5.25e5	0.95	NO	0.768	5.012	54.75	54.75	0.995	0.995	NO	2420	121	1.83	
210	2... 13C-PCB-208	5.46e5	0.79	NO	0.991	5.012	53.99	53.99	0.981	0.981	NO	1949	97.7	1.45	
211	2... 13C-PCB-206	3.58e5	0.80	NO	0.552	5.012	56.29	56.30	1.023	1.023	NO	2294	115	2.60	
212	2... 13C-PCB-209	3.43e5	1.24	NO	0.396	5.012	57.53	57.53	1.046	1.045	NO	3062	153	0.928	

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Name: 201026K3\_7, Date: 27-Oct-2020, Time: 16:58:48, ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	2.16e6	1.64	NO	1.00	5.012	25.58	25.60	1.000	0.000	NO	1995	100	0.414	
214	2... 13C-PCB-31	1.88e6	1.12	NO	1.00	5.012	28.72	28.74	1.000	0.000	NO	1995	100	4.83	
215	2... 13C-PCB-60	1.20e6	0.81	NO	1.00	5.012	36.74	36.78	1.000	0.000	NO	1995	100	1.39	
216	2... 13C-PCB-111	6.78e5	1.64	NO	1.00	5.012	39.33	39.35	1.000	0.000	NO	1995	100	1.21	
217	2... 13C-PCB-128	6.63e5	1.27	NO	1.00	5.012	46.67	46.71	1.000	0.000	NO	1995	100	1.75	
218	2... 13C-PCB-182	4.46e5	0.47	NO	1.00	5.012	46.50	46.51	0.000	0.000	NO	1995	100	1.37	
219	2... 13C-PCB-205	5.64e5	0.94	NO	1.00	5.012	55.01	55.03	1.000	0.000	NO	1995	100	1.40	
220	2... 13C-PCB-79	1.26e6	0.81	NO	1.07	5.012	37.88	37.88	1.030	1.030	NO	1950	97.7	1.30	
221	2... 13C-PCB-178	4.21e5	0.47	NO	0.766	5.012	45.97	45.97	0.988	0.988	NO	1654	82.9	1.25	
222	2... 13C-PCB-79	1.26e6	0.81	NO	1.08	5.012	37.87	37.88	0.968	0.968	NO	2140	107	1.45	
223	2... 13C-PCB-178	4.21e5	0.47	NO	1.05	5.012	45.98	45.97	0.923	0.923	NO	2137	107	1.57	
224	2... Total Mono-PCBs				1.17	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	2... Total Di-PCBs				1.05	5.012	0.00		0.000		NO	196.1		5.34	196.1
226	2... 2nd Function Tri-PCBs				1.08	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	2... 3rd Function Tri-PCBs				0.983	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	2... Total Tetra-PCBs				1.08	5.012	0.00		0.000		NO	1731		11.4	1740
229	2... 3rd Function Penta-PCBs				1.32	5.012	0.00		0.000		NO	2522		13.8	2567
230	2... 4th Function Penta-PCBs				1.07	5.012	0.00		0.000		NO	185.2		2.88	185.2
231	2... 3rd Function Hexa-PCBs				0.951	5.012	0.00		0.000		NO	719.4		4.83	736.1
232	2... 4th Function Hexa-PCBs				1.03	5.012	0.00		0.000		NO	1953		11.4	1954
233	2... Total Hepta-PCBs				1.36	5.012	0.00		0.000		NO	1467		13.7	1471
234	2... 4th Function Octa-PCBs				1.00	5.012	0.00		0.000		NO	238.6		5.89	254.3
235	2... 5th Function Octa-PCBs				1.15	5.012	0.00		0.000		NO	122.2		2.1	122.2
236	2... Total Nona-PCBs				0.952	5.012	0.00		0.000		NO	93.59		1.47	93.59
237	2... Deca-CB				0.986	5.012	0.00		0.000		NO	93.53		0.432	93.53
238	2... Total PCBs														

Handwritten notes and corrections in the right margin of the table:  
 547.4 ✓  
 2707.2 ✓  
 2672.4 ✓  
 360.8 ✓  
 552.3 ✓  
 2752.2 ✓  
 2690.1 ✓  
 376.5 ✓

Vista Analytical Laboratory

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

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**Total Mono-PCBs**

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-1	15.61	15.61	4.161e4	1.349e4	2.450e3	7.862e2	3.12	NO	3.236e3	5.0956	5.0956	0.296
2	PCB-2	18.03	18.02	1.206e5	3.886e4	7.773e3	2.378e3	3.27	NO	1.015e4	15.127	15.127	0.305
3	PCB-3	18.26	18.26	4.580e4	1.461e4	2.920e3	8.454e2	3.45	NO	3.766e3	5.7799	5.7799	0.314

**Total Di-PCBs**

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-4/10	19.68	19.62	1.117e5	7.520e4	7.496e3	5.244e3	1.43	NO	1.274e4	19.219	19.219	0.812
2	PCB-7/9	21.48	21.46	1.807e4	1.395e4	1.748e3	1.166e3	1.50	NO	2.914e3	3.4765	3.4765	0.655
3	PCB-6	22.13	22.14	7.177e4	4.510e4	4.586e3	3.353e3	1.37	NO	7.939e3	8.8841	8.8841	0.614
4	PCB-5/8	22.54	22.53	2.651e5	1.742e5	1.787e4	1.178e4	1.52	NO	2.965e4	34.217	34.217	0.633
5	PCB-11	24.91	24.91	7.450e5	4.507e5	4.903e4	2.994e4	1.64	NO	7.897e4	80.807	80.807	0.612
6	PCB-12/13	25.34	25.27	4.785e4	3.370e4	3.918e3	2.798e3	1.40	NO	6.717e3	7.5402	7.5402	0.672
7	PCB-15	25.63	25.62	3.410e5	2.076e5	2.313e4	1.451e4	1.59	NO	3.764e4	41.924	41.924	0.666

**2nd Function Tri-PCBs**

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-19	23.88	23.87	5.993e4	5.445e4	4.245e3	4.095e3	1.04	NO	8.340e3	21.523	21.523	0.725
2	PCB-18	25.53	25.54	1.836e5	1.736e5	1.249e4	1.143e4	1.09	NO	2.392e4	56.328	56.328	0.609
3	PCB-17	25.72	25.72	9.805e4	8.977e4	6.756e3	6.252e3	1.08	NO	1.301e4	33.033	33.033	0.656
4	PCB-24/27	26.32	26.29	3.169e4	2.598e4	1.919e3	1.881e3	1.02	NO	3.799e3	6.7623	6.7623	0.460
5	PCB-16/32	26.85	26.85	9.480e4	8.718e4	9.765e3	9.049e3	1.08	NO	1.881e4	39.153	39.153	0.538



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3rd Function Tri-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-34	27.66	27.68	9.166e3	7.243e3	8.785e2	5.649e2	1.56	YES	1.443e3	0.00000	1.3316	0.539
2	PCB-26	28.24	28.24	1.354e5	1.297e5	1.027e4	1.004e4	1.02	NO	2.031e4	23.511	23.511	0.539
3	PCB-25	28.39	28.40	7.902e4	7.491e4	5.909e3	6.052e3	0.98	NO	1.196e4	13.756	13.756	0.536
4	PCB-31	28.77	28.76	5.994e5	5.383e5	4.641e4	4.322e4	1.07	NO	8.962e4	94.485	94.485	0.491
5	PCB-28	28.87	28.87	7.150e5	7.019e5	5.688e4	5.524e4	1.03	NO	1.121e5	119.51	119.51	0.497
6	PCB-20/21/33	29.51	29.52	2.641e5	2.546e5	2.316e4	2.239e4	1.03	NO	4.555e4	52.863	52.863	0.541
7	PCB-22	29.95	29.97	2.056e5	1.828e5	1.637e4	1.460e4	1.12	NO	3.096e4	34.773	34.773	0.523
8	PCB-38	31.88	31.90	1.827e4	1.649e4	1.489e3	1.353e3	1.10	NO	2.843e3	3.2357	3.2357	0.549
9	PCB-35	32.43	32.44	2.478e4	1.853e4	1.844e3	1.516e3	1.22	YES	3.359e3	0.00000	3.5466	0.553
10	PCB-37	32.87	32.89	2.589e5	2.448e5	2.079e4	2.009e4	1.03	NO	4.088e4	48.508	48.508	0.572

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**Total Tetra-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-54	27.70	27.72	1.295e4	2.009e4	1.024e3	1.572e3	0.65	YES	2.596e3	0.00000	4.4735	0.321
2	PCB-50	28.91	28.91	3.164e3	4.682e3	2.525e2	3.880e2	0.65	YES	6.405e2	0.00000	1.3546	0.395
3	PCB-53	29.58	29.58	8.222e4	9.932e4	6.448e3	8.064e3	0.80	NO	1.451e4	34.478	34.478	0.427
4	PCB-51	29.93	29.93	4.355e4	6.817e4	3.482e3	5.010e3	0.69	NO	8.492e3	18.879	18.879	0.400
5	PCB-45	30.38	30.38	3.847e4	5.362e4	3.046e3	4.235e3	0.72	NO	7.281e3	20.088	20.088	0.496
6	PCB-46	30.88	30.88	1.917e4	2.407e4	1.560e3	1.852e3	0.84	NO	3.412e3	9.7269	9.7269	0.513
7	PCB-52/69	31.38	31.36	6.146e5	7.630e5	5.115e4	6.400e4	0.80	NO	1.151e5	233.75	233.75	0.365
8	PCB-73	31.49	31.47	5.564e3	7.840e3	3.413e2	5.143e2	0.66	NO	8.556e2	1.4040	1.4040	0.295
9	PCB-43/49	31.67	31.68	3.682e5	4.842e5	3.193e4	4.191e4	0.76	NO	7.383e4	172.08	172.08	0.419
10	PCB-47	31.90	31.90	2.154e5	2.796e5	1.889e4	2.386e4	0.79	NO	4.275e4	101.96	101.96	0.440
11	PCB-48/75	32.01	32.03	8.024e4	9.566e4	6.567e3	7.517e3	0.87	NO	1.408e4	27.642	27.642	0.362
12	PCB-44	32.72	32.72	3.549e5	4.268e5	2.742e4	3.333e4	0.82	NO	6.075e4	162.07	162.07	0.492
13	PCB-42/59	32.94	32.94	1.461e5	1.750e5	1.145e4	1.370e4	0.84	NO	2.514e4	52.665	52.665	0.387
14	PCB-41/64/71/72	33.56	33.54	4.012e5	5.004e5	3.295e4	4.193e4	0.79	NO	7.488e4	138.64	138.64	0.342
15	PCB-68	33.82	33.82	1.232e4	1.410e4	1.003e3	1.146e3	0.88	NO	2.149e3	3.6978	3.6978	0.318
16	PCB-40	34.04	34.02	4.530e4	6.011e4	3.621e3	4.648e3	0.78	NO	8.269e3	30.196	30.196	0.674
17	PCB-57	34.40	34.41	6.304e3	5.555e3	4.345e2	4.472e2	0.97	YES	8.818e2	0.00000	1.2727	0.277
18	PCB-67	34.71	34.73	1.669e4	2.046e4	1.472e3	1.764e3	0.83	NO	3.237e3	5.5825	5.5825	0.297
19	PCB-58	34.84	34.84	4.258e3	6.541e3	3.081e2	4.277e2	0.72	NO	7.358e2	1.1427	1.1427	0.268
20	PCB-63	34.99	35.01	2.725e4	3.404e4	2.174e3	2.722e3	0.80	NO	4.896e3	8.5408	8.5408	0.301
21	PCB-74	35.29	35.29	3.062e5	3.796e5	2.519e4	3.182e4	0.79	NO	5.701e4	89.953	89.953	0.272
22	PCB-61/70	35.51	35.51	8.078e5	1.026e6	6.441e4	8.133e4	0.79	NO	1.457e5	258.49	258.49	0.306
23	PCB-76/66	35.70	35.74	6.674e5	8.496e5	5.607e4	7.105e4	0.79	NO	1.271e5	204.13	204.13	0.277
24	PCB-55	36.30	36.26	1.192e4	1.402e4	1.153e3	1.406e3	0.82	NO	2.559e3	3.9023	3.9023	0.268
25	PCB-56/60	36.79	36.78	3.723e5	4.731e5	3.038e4	3.793e4	0.80	NO	6.831e4	119.64	119.64	0.308
26	PCB-79	37.92	37.91	1.945e4	2.338e4	1.629e3	1.949e3	0.84	NO	3.578e3	5.6027	5.6027	0.276
27	PCB-78	38.62	38.54	3.585e3	4.605e3	2.877e2	4.360e2	0.66	NO	7.238e2	1.1715	1.1715	0.303
28	PCB-81	39.16	39.18	1.505e4	2.095e4	5.539e2	6.187e2	0.90	YES	1.173e3	0.00000	1.9249	0.329
29	PCB-77	39.77	39.77	7.969e4	9.994e4	6.520e3	8.520e3	0.77	NO	1.504e4	25.428	25.428	0.311

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3rd Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-104	32.57	32.59	2.828e3	1.696e3	1.918e2	1.796e2	1.07	YES	3.713e2	0.00000	0.91400	0.410
2	PCB-96	33.88	33.85	1.192e4	8.472e3	8.920e2	6.129e2	1.46	NO	1.505e3	4.2506	4.2506	0.399
3	PCB-103	34.43	34.41	2.052e4	1.264e4	1.567e3	1.022e3	1.53	NO	2.589e3	9.0090	9.0090	0.491
4	PCB-100	34.81	34.79	1.781e4	9.837e3	1.520e3	8.960e2	1.70	NO	2.416e3	8.2561	8.2561	0.482
5	PCB-94	35.27	35.27	7.379e3	3.954e3	6.500e2	3.934e2	1.65	NO	1.043e3	4.5108	4.5108	0.647
6	PCB-95/98/102	35.74	35.83	6.683e5	3.896e5	5.497e4	3.351e4	1.64	NO	8.847e4	301.32	301.32	0.510
7	PCB-88/91	36.22	36.24	1.409e5	8.983e4	1.100e4	6.941e3	1.59	NO	1.795e4	69.134	69.134	0.577
8	PCB-84/92	37.17	37.17	3.695e5	2.254e5	2.920e4	1.736e4	1.68	NO	4.656e4	185.89	185.89	0.612
9	PCB-89	37.36	37.35	6.343e3	6.153e3	5.234e2	4.048e2	1.29	YES	9.283e2	0.00000	3.1580	0.563
10	PCB-90/101	37.55	37.58	9.691e5	6.145e5	8.150e4	5.138e4	1.59	NO	1.329e5	480.89	480.89	0.555
11	PCB-113	37.80	37.82	2.020e4	1.130e4	4.534e2	2.184e2	2.08	YES	6.719e2	0.00000	1.5004	0.411
12	PCB-99	37.90	37.91	4.868e5	2.960e5	3.925e4	2.434e4	1.61	NO	6.359e4	195.57	195.57	0.471
13	PCB-119	38.38	38.38	4.167e4	2.492e4	3.573e3	2.084e3	1.72	NO	5.657e3	14.081	14.081	0.382
14	PCB-108/112	38.53	38.56	4.255e4	2.732e4	3.518e3	2.250e3	1.56	NO	5.768e3	17.939	17.939	0.477
15	PCB-97	38.90	38.92	2.472e5	1.558e5	2.039e4	1.243e4	1.64	NO	3.282e4	115.05	115.05	0.538
16	PCB-87/117/125	39.19	39.20	3.661e5	2.168e5	3.005e4	1.776e4	1.69	NO	4.780e4	137.80	137.80	0.442
17	PCB-111/115	39.35	39.35	2.235e4	1.324e4	1.525e3	9.175e2	1.66	NO	2.442e3	5.7453	5.7453	0.361
18	PCB-85/116	39.47	39.47	1.649e5	1.006e5	1.344e4	8.476e3	1.59	NO	2.192e4	69.817	69.817	0.489
19	PCB-120	39.74	39.76	7.911e3	4.429e3	5.914e2	3.504e2	1.69	NO	9.418e2	2.1108	2.1108	0.344
20	PCB-110	39.89	39.88	1.355e6	8.002e5	1.066e5	6.468e4	1.65	NO	1.713e5	441.80	441.80	0.396
21	PCB-82	40.52	40.52	8.203e4	4.343e4	6.659e3	3.479e3	1.91	YES	1.014e4	0.00000	39.432	0.687
22	PCB-124	41.23	41.24	4.697e4	2.706e4	4.399e3	2.534e3	1.74	NO	6.933e3	17.168	17.168	0.384
23	PCB-107/109	41.37	41.41	9.067e4	5.959e4	7.626e3	4.779e3	1.60	NO	1.241e4	31.980	31.980	0.400
24	PCB-123	41.56	41.56	2.253e4	1.531e4	1.808e3	1.157e3	1.56	NO	2.965e3	8.5625	8.5625	0.448
25	PCB-106/118	41.76	41.75	1.065e6	6.468e5	9.067e4	5.614e4	1.61	NO	1.468e5	401.27	401.27	0.428

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4th Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-114	42.43	42.42	4.719e4	2.824e4	4.096e3	2.518e3	1.63	NO	6.613e3	9.5962	9.5962	0.470
2	PCB-122	42.57	42.56	2.241e4	1.392e4	1.901e3	1.158e3	1.64	NO	3.059e3	5.3643	5.3643	0.568
3	PCB-105	43.31	43.31	7.721e5	4.916e5	6.421e4	4.084e4	1.57	NO	1.050e5	167.11	167.11	0.514
4	PCB-126	45.62	45.63	1.346e4	8.273e3	1.219e3	7.388e2	1.65	NO	1.958e3	3.0780	3.0780	0.530

3rd Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-155	37.09	37.08	7.900e2	6.170e2	6.604e1	4.033e1	1.64	YES	1.064e2	0.00000	0.46689	0.318
2	PCB-150	38.40	38.40	3.299e3	2.190e3	2.385e2	1.751e2	1.36	NO	4.136e2	2.0592	2.0592	0.306
3	PCB-136	39.68	39.68	9.224e4	7.350e4	7.962e3	6.387e3	1.25	NO	1.435e4	75.818	75.818	0.325
4	PCB-148	39.79	39.77	2.920e3	2.676e3	1.352e2	1.665e2	0.81	YES	3.017e2	0.00000	1.5654	0.394
5	PCB-154	40.30	40.29	1.676e4	1.060e4	1.345e3	8.351e2	1.61	YES	2.180e3	0.00000	10.980	0.361
6	PCB-151	40.97	40.96	1.410e5	1.033e5	1.101e4	8.664e3	1.27	NO	1.967e4	134.91	134.91	0.422
7	PCB-135	41.19	41.19	8.533e4	5.781e4	7.034e3	5.078e3	1.39	NO	1.211e4	70.842	70.842	0.359
8	PCB-144	41.30	41.30	2.237e4	1.830e4	1.714e3	1.327e3	1.29	NO	3.041e3	20.789	20.789	0.420
9	PCB-147	41.43	41.43	1.207e4	1.259e4	9.349e2	8.818e2	1.06	NO	1.817e3	11.743	11.743	0.397
10	PCB-139/149	41.72	41.69	4.896e5	3.854e5	3.989e4	3.096e4	1.29	NO	7.085e4	403.22	403.22	0.350
11	PCB-140	41.90	41.90	4.345e3	3.009e3	3.635e2	2.461e2	1.48	YES	6.096e2	0.00000	3.7467	0.418

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## 4th Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-134/143	42.34	42.37	6.840e4	5.044e4	5.794e3	4.264e3	1.36	NO	1.006e4	31.783	31.783	0.694
2	PCB-131/133	42.67	42.65	4.005e4	3.843e4	3.568e3	3.137e3	1.14	NO	6.705e3	19.591	19.591	0.642
3	PCB-146/165	43.07	43.07	2.934e5	2.331e5	2.389e4	1.934e4	1.24	NO	4.323e4	101.98	101.98	0.518
4	PCB-132/161	43.31	43.33	4.228e5	3.414e5	3.383e4	2.721e4	1.24	NO	6.105e4	142.96	142.96	0.514
5	PCB-153	43.48	43.48	1.758e6	1.383e6	1.453e5	1.145e5	1.27	NO	2.598e5	582.05	582.05	0.492
6	PCB-141	44.24	44.24	2.533e5	2.074e5	2.141e4	1.710e4	1.25	NO	3.851e4	112.72	112.72	0.636
7	PCB-137	44.63	44.64	5.073e4	3.910e4	4.526e3	3.675e3	1.23	NO	8.201e3	22.192	22.192	0.588
8	PCB-130	44.73	44.75	6.635e4	5.386e4	5.316e3	4.216e3	1.26	NO	9.532e3	32.352	32.352	0.737
9	PCB-138/163/164	45.13	45.13	1.552e6	1.217e6	1.556e5	1.213e5	1.28	NO	2.770e5	632.87	632.87	0.514
10	PCB-158/160	45.40	45.36	1.757e5	1.428e5	1.454e4	1.211e4	1.20	NO	2.666e4	63.052	63.052	0.532
11	PCB-129	45.63	45.63	4.353e4	3.854e4	3.591e3	3.210e3	1.12	NO	6.801e3	23.014	23.014	0.761
12	PCB-166	46.10	46.10	4.968e3	6.517e3	4.081e2	5.449e2	0.75	YES	9.531e2	0.00000	1.5280	0.477
13	PCB-128/162	46.73	46.72	2.245e5	1.847e5	1.972e4	1.610e4	1.23	NO	3.582e4	93.520	93.520	0.601
14	PCB-167	47.14	47.14	7.191e4	5.421e4	6.588e3	4.764e3	1.38	NO	1.135e4	24.169	24.169	0.489
15	PCB-156	48.49	48.49	1.664e5	1.264e5	1.438e4	1.117e4	1.29	NO	2.555e4	56.571	56.571	0.514
16	PCB-157	48.75	48.75	3.733e4	2.726e4	3.357e3	2.411e3	1.39	NO	5.768e3	13.798	13.798	0.532

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Total Hepta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-188	43.11	43.09	2.009e3	2.233e3	1.329e2	2.040e2	0.65	YES	3.369e2	0.00000	0.71223	0.476
2	PCB-184	43.56	43.56	1.914e3	2.112e3	1.861e2	2.044e2	0.91	NO	3.905e2	1.1222	1.1222	0.499
3	PCB-179	44.36	44.36	1.708e5	1.646e5	1.438e4	1.376e4	1.05	NO	2.815e4	76.748	76.748	0.473
4	PCB-176	44.85	44.83	4.003e4	4.146e4	3.639e3	3.514e3	1.04	NO	7.154e3	19.349	19.349	0.469
5	PCB-186	45.47	45.49	1.424e3	9.520e2	7.750e1	5.430e1	1.43	YES	1.318e2	0.00000	0.29647	0.462
6	PCB-178	45.99	45.99	6.416e4	6.387e4	5.453e3	5.282e3	1.03	NO	1.073e4	40.281	40.281	0.651
7	PCB-175	46.35	46.35	1.118e4	1.420e4	8.694e2	9.125e2	0.95	NO	1.782e3	6.5957	6.5957	0.642
8	PCB-182/187	46.52	46.50	4.028e5	3.791e5	3.445e4	3.276e4	1.05	NO	6.721e4	223.14	223.14	0.576
9	PCB-183	46.84	46.86	1.608e5	1.496e5	1.343e4	1.303e4	1.03	NO	2.646e4	91.562	91.562	0.600
10	PCB-185	47.53	47.52	2.996e4	3.185e4	2.506e3	2.642e3	0.95	NO	5.149e3	19.539	19.539	0.649
11	PCB-174	47.91	47.90	2.584e5	2.387e5	2.159e4	2.000e4	1.08	NO	4.160e4	163.92	163.92	0.674
12	PCB-181	48.02	47.99	8.088e3	9.865e3	4.271e2	4.011e2	1.06	NO	8.283e2	2.9966	2.9966	0.619
13	PCB-177	48.20	48.18	1.644e5	1.465e5	1.373e4	1.267e4	1.08	NO	2.640e4	110.23	110.23	0.714
14	PCB-171	48.50	48.49	7.275e4	7.128e4	6.170e3	5.915e3	1.04	NO	1.208e4	48.980	48.980	0.693
15	PCB-173	48.93	48.94	5.571e3	3.251e3	5.192e2	3.254e2	1.60	YES	8.446e2	0.00000	2.9907	0.766
16	PCB-172	49.39	49.40	4.563e4	4.081e4	3.917e3	3.785e3	1.03	NO	7.702e3	29.878	29.878	0.663
17	PCB-180	49.81	49.81	6.290e5	5.817e5	5.400e4	4.992e4	1.08	NO	1.039e5	392.67	392.67	0.646
18	PCB-193	50.03	50.02	3.885e4	4.019e4	3.485e3	3.367e3	1.04	NO	6.852e3	21.799	21.799	0.544
19	PCB-191	50.29	50.29	1.325e4	1.210e4	1.093e3	1.030e3	1.06	NO	2.122e3	6.6197	6.6197	0.533
20	PCB-170	51.48	51.48	2.382e5	2.216e5	1.980e4	1.820e4	1.09	NO	3.800e4	170.06	170.06	0.764
21	PCB-190	51.69	51.67	5.915e4	6.044e4	5.116e3	5.047e3	1.01	NO	1.016e4	34.414	34.414	0.578
22	PCB-189	53.17	53.17	1.305e4	1.461e4	9.805e2	1.076e3	0.91	NO	2.056e3	7.1831	7.1831	0.522

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4th Function Octa-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-202	48.71	48.69	2.771e4	2.874e4	2.304e3	2.540e3	0.91	NO	4.845e3	20.617	20.617	0.616
2 PCB-201	49.19	49.21	1.653e4	1.516e4	1.483e3	1.396e3	1.06	YES	2.879e3	0.00000	12.460	0.683
3 PCB-197	49.65	49.66	4.174e3	6.558e3	3.540e2	5.178e2	0.68	YES	8.718e2	0.00000	3.2998	0.635
4 PCB-200	50.59	50.61	1.285e4	1.548e4	1.039e3	1.292e3	0.80	NO	2.331e3	10.826	10.826	0.672
5 PCB-198	52.14	52.20	7.425e3	7.045e3	4.406e2	5.442e2	0.81	NO	9.848e2	6.1674	6.1674	0.906
6 PCB-199	52.28	52.27	9.571e4	1.162e5	7.309e3	8.503e3	0.86	NO	1.581e4	97.142	97.142	0.889
7 PCB-196/203	52.57	52.58	1.097e5	1.241e5	8.230e3	9.273e3	0.89	NO	1.750e4	103.82	103.82	0.858

5th Function Octa-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-195	53.86	53.86	6.752e4	7.618e4	4.174e3	4.866e3	0.86	NO	9.040e3	32.871	32.871	0.623
2 PCB-194	54.77	54.76	2.034e5	2.169e5	1.222e4	1.306e4	0.94	NO	2.528e4	86.039	86.039	0.583
3 PCB-205	55.04	55.03	9.085e3	9.546e3	5.206e2	6.021e2	0.86	NO	1.123e3	3.3068	3.3068	0.505

Total Nona-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-208	54.01	54.00	4.871e4	3.851e4	3.090e3	2.385e3	1.30	NO	5.474e3	21.448	21.448	0.432
2 PCB-207	54.33	54.34	2.183e4	1.413e4	1.283e3	8.421e2	1.52	NO	2.125e3	8.4784	8.4784	0.440
3 PCB-206	56.32	56.32	1.094e5	7.691e4	6.751e3	4.761e3	1.42	NO	1.151e4	63.659	63.659	0.594

Deca-CB

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-209	57.53	57.54	1.534e5	1.307e5	8.562e3	7.302e3	1.17	NO	1.586e4	93.528	93.528	0.432

Total PCBs

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

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**Total Mono-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-1	15.59	15.60	1.410e7	4.366e6	8.292e5	2.554e5	3.25	NO	1.085e6	1119.9		1.36
2	13C-PCB-3	18.24	18.25	1.371e7	3.956e6	8.770e5	2.552e5	3.44	NO	1.132e6	1146.6		1.33

**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-4	19.61	19.60	1.036e7	6.308e6	6.581e5	4.017e5	1.64	NO	1.060e6	1629.7		0.689
2	13C-PCB-9	21.42	21.42	1.665e7	1.027e7	1.078e6	6.641e5	1.62	NO	1.742e6	1657.7		0.427
3	13C-PCB-11	24.88	24.89	1.511e7	9.575e6	1.067e6	6.648e5	1.60	NO	1.731e6	1661.2		0.430
4	13C-PCB-15	25.58	25.60	1.956e7	1.207e7	1.342e6	8.204e5	1.64	NO	2.163e6	1995.4		0.414

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-19	23.84	23.85	4.929e6	4.749e6	3.606e5	3.383e5	1.07	NO	6.989e5	1292.6		5.73
2	13C-PCB-32	26.83	26.83	7.905e6	7.478e6	5.320e5	5.041e5	1.06	NO	1.036e6	1284.6		3.84

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-31	28.72	28.74	1.270e7	1.140e7	9.913e5	8.842e5	1.12	NO	1.875e6	1995.4		4.83
2	13C-PCB-28	28.85	28.85	1.233e7	1.107e7	9.619e5	8.646e5	1.11	NO	1.826e6	1825.9		4.54
3	13C-PCB-37	32.84	32.85	1.077e7	1.005e7	8.683e5	7.983e5	1.09	NO	1.667e6	1792.7		4.89



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**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-54	27.68	27.68	5.672e6	6.915e6	4.362e5	5.358e5	0.81	NO	9.720e5	1611.6		1.39
2	13C-PCB-52	31.35	31.34	4.546e6	5.767e6	3.720e5	4.706e5	0.79	NO	8.426e5	1736.1		1.73
3	13C-PCB-47	31.88	31.88	4.857e6	5.916e6	4.079e5	4.997e5	0.82	NO	9.076e5	1754.2		1.62
4	13C-PCB-70	35.50	35.49	6.197e6	7.288e6	4.862e5	5.809e5	0.84	NO	1.067e6	1775.8		1.39
5	13C-PCB-80	35.94	35.94	6.238e6	7.666e6	4.996e5	6.197e5	0.81	NO	1.119e6	1803.9		1.35
6	13C-PCB-60	36.74	36.78	6.449e6	8.031e6	5.385e5	6.656e5	0.81	NO	1.204e6	1995.4		1.39
7	13C-PCB-79	37.88	37.88	6.907e6	8.555e6	5.622e5	6.954e5	0.81	NO	1.258e6	1949.5		1.30
8	13C-PCB-81	39.14	39.14	5.713e6	7.044e6	4.866e5	5.982e5	0.81	NO	1.085e6	1819.5		1.41
9	13C-PCB-77	39.76	39.76	5.614e6	6.763e6	4.700e5	5.681e5	0.83	NO	1.038e6	1775.6		1.43

**3rd Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-104	32.52	32.55	5.050e6	3.057e6	3.801e5	2.321e5	1.64	NO	6.123e5	1771.6		1.19
2	13C-PCB-95	35.78	35.79	3.788e6	2.293e6	3.023e5	1.841e5	1.64	NO	4.864e5	1776.7		1.50
3	13C-PCB-101	37.54	37.54	3.740e6	2.258e6	3.056e5	1.855e5	1.65	NO	4.911e5	1822.4		1.52
4	13C-PCB-97	38.87	38.88	3.399e6	2.028e6	2.780e5	1.660e5	1.67	NO	4.440e5	1875.3		1.73
5	13C-PCB-111	39.33	39.35	5.164e6	3.106e6	4.218e5	2.566e5	1.64	NO	6.785e5	1995.4		1.21
6	13C-PCB-123	41.54	41.54	4.321e6	2.648e6	3.573e5	2.196e5	1.63	NO	5.768e5	1818.6		1.29
7	13C-PCB-118	41.73	41.73	4.475e6	2.690e6	3.738e5	2.249e5	1.66	NO	5.987e5	1786.5		1.22

**4th Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-114	42.40	42.40	9.086e6	5.519e6	7.476e5	4.574e5	1.63	NO	1.205e6	2346.1		1.50
2	13C-PCB-105	43.31	43.29	8.989e6	5.509e6	7.391e5	4.547e5	1.63	NO	1.194e6	2286.1		1.47
3	13C-PCB-127	43.65	43.65	9.231e6	5.680e6	7.817e5	4.786e5	1.63	NO	1.260e6	2335.8		1.42
4	13C-PCB-126	45.61	45.61	7.832e6	4.819e6	6.710e5	4.119e5	1.63	NO	1.083e6	2079.7		1.48

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-7B.qld

Last Altered: Wednesday, November 04, 2020 11:28:40 Pacific Standard Time

Printed: Wednesday, November 04, 2020 11:30:47 Pacific Standard Time

ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

**4th Function Hexa-Isotopes**

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-153	43.46	43.47	5.602e6	4.306e6	4.683e5	3.637e5	1.29	NO	8.320e5	1835.7		1.28
2	13C-PCB-141	44.24	44.22	4.470e6	3.564e6	3.694e5	2.947e5	1.25	NO	6.641e5	1773.1		1.55
3	13C-PCB-138	45.09	45.10	4.457e6	3.531e6	3.817e5	2.987e5	1.28	NO	6.804e5	1729.3		1.47
4	13C-PCB-159	46.43	46.42	5.420e6	4.189e6	4.752e5	3.670e5	1.29	NO	8.423e5	1762.1		1.21
5	13C-PCB-128	46.67	46.71	4.290e6	3.445e6	3.703e5	2.923e5	1.27	NO	6.626e5	1995.4		1.75
6	13C-PCB-167	47.13	47.12	5.459e6	4.256e6	4.768e5	3.686e5	1.29	NO	8.454e5	1767.7		1.21
7	13C-PCB-156	48.47	48.47	5.143e6	3.912e6	4.539e5	3.464e5	1.31	NO	8.004e5	1725.3		1.25
8	13C-PCB-157	48.76	48.73	5.394e6	4.077e6	4.568e5	3.466e5	1.32	NO	8.033e5	1731.7		1.25
9	13C-PCB-169	51.03	51.03	4.525e6	3.360e6	4.016e5	3.025e5	1.33	NO	7.041e5	1592.8		1.31

**5th Function Octa-Isotopes**

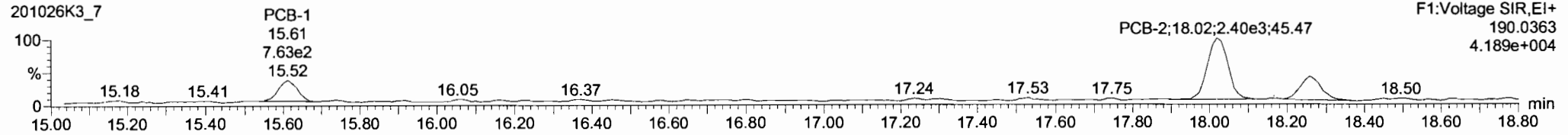
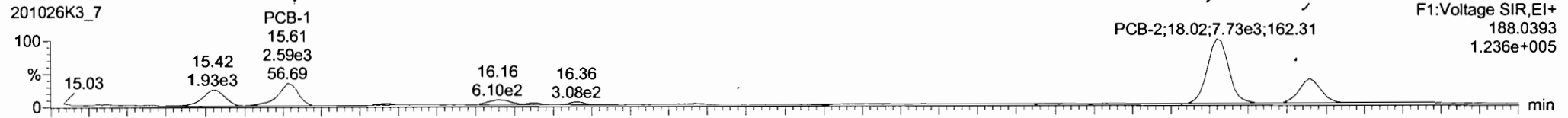
	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-194	54.75	54.75	4.273e6	4.553e6	2.556e5	2.698e5	0.95	NO	5.254e5	2420.0		1.83
2	13C-PCB-205	55.01	55.03	4.702e6	4.989e6	2.732e5	2.909e5	0.94	NO	5.641e5	1995.4		1.40

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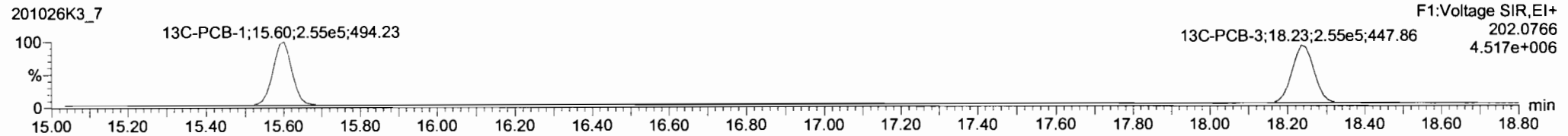
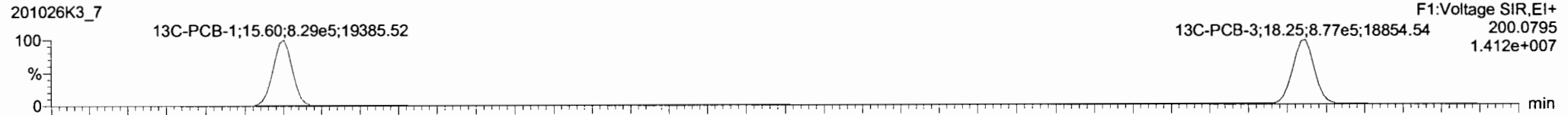
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Name: 201026K3\_7, Date: 27-Oct-2020, Time: 16:58:48, ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

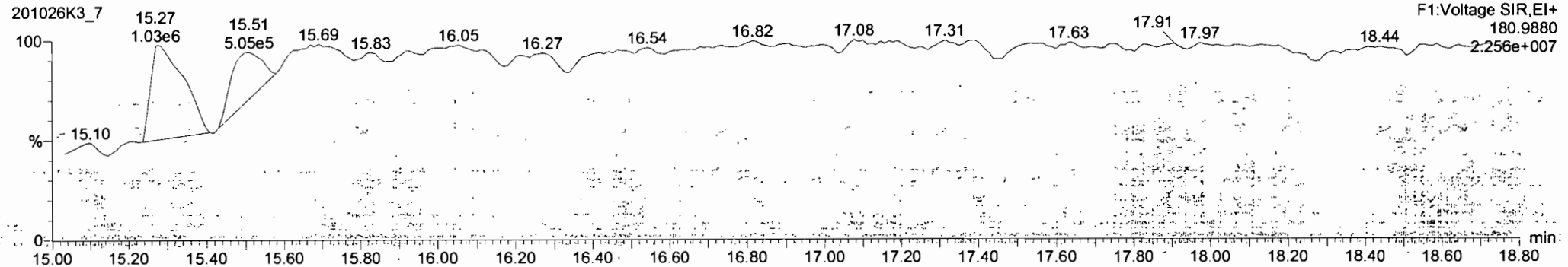
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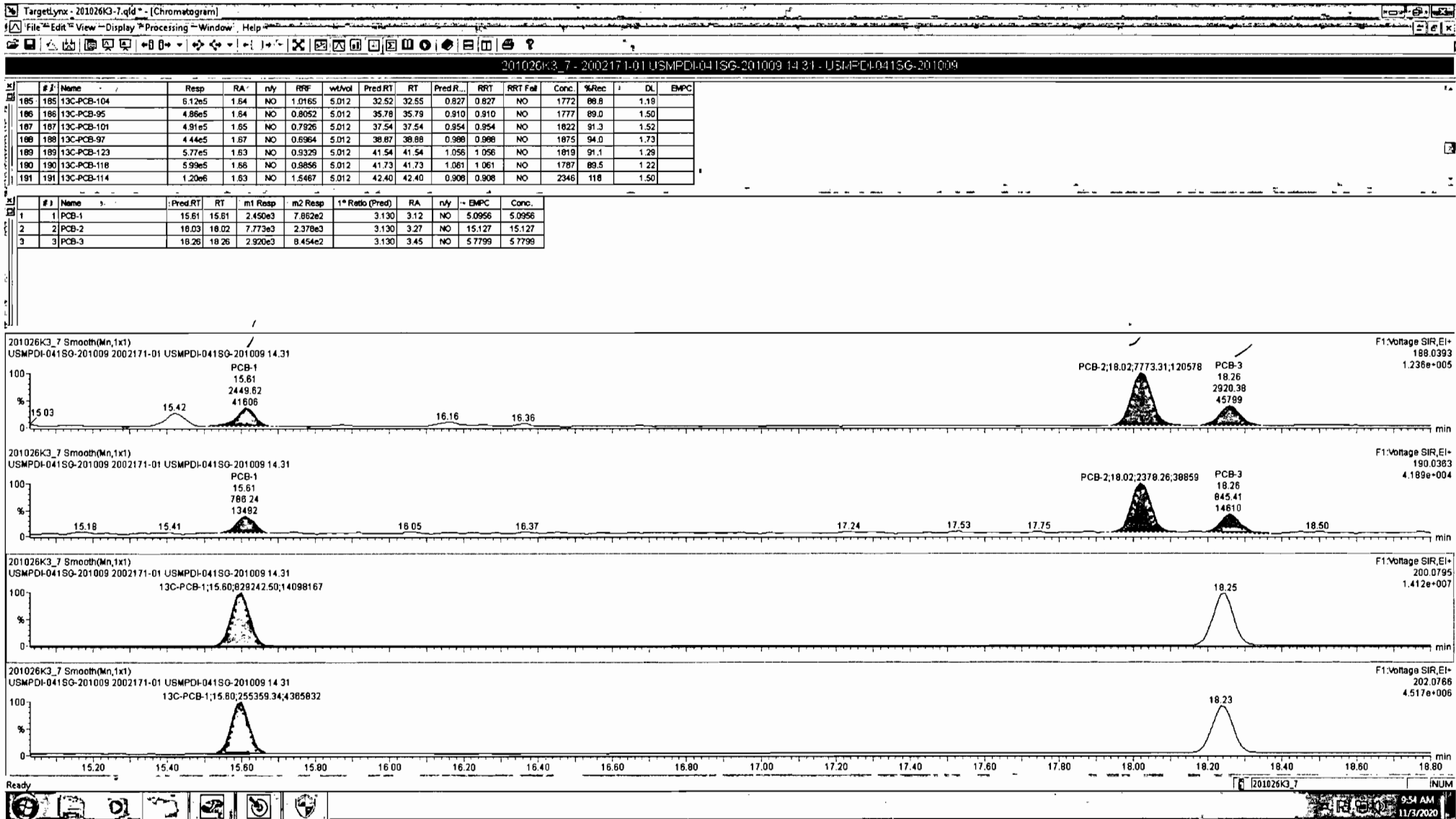


**13C-PCB-1**



**PFK1**



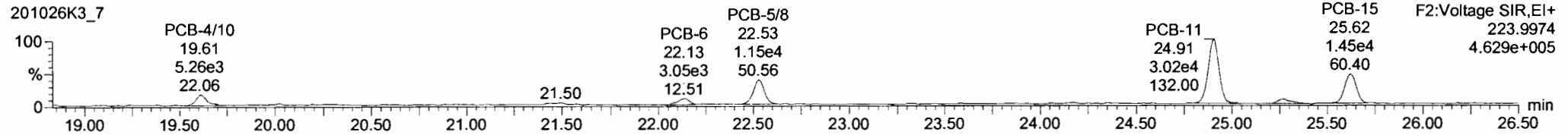
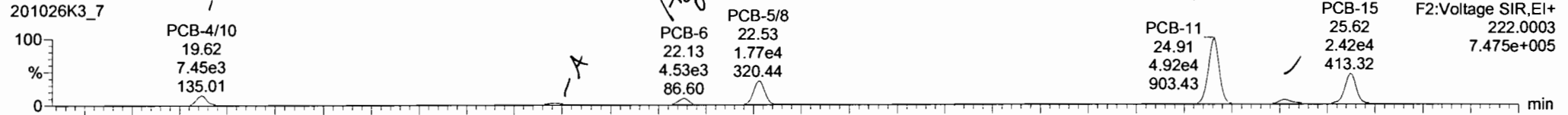


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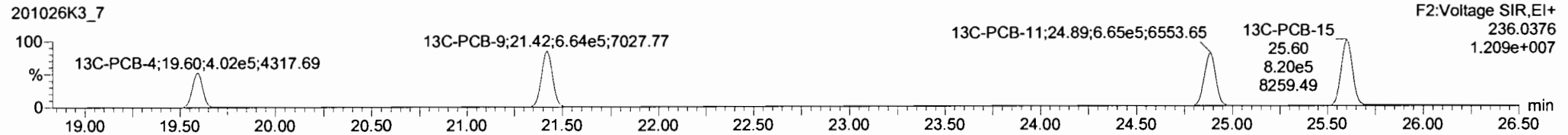
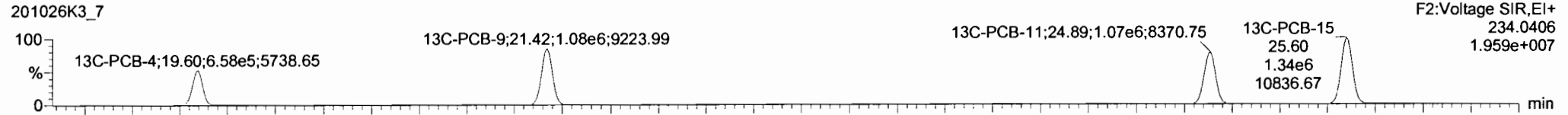
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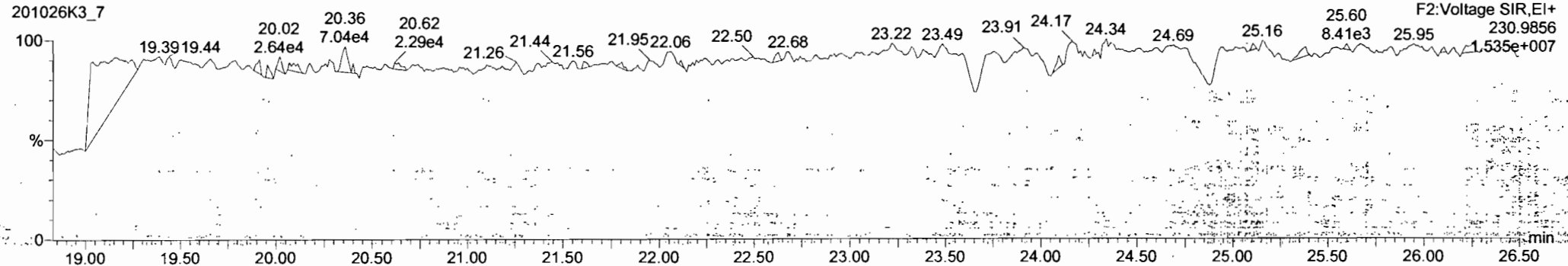
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**13C-PCB-4**



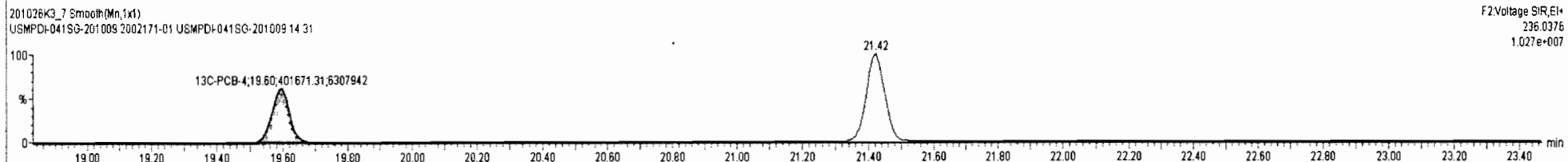
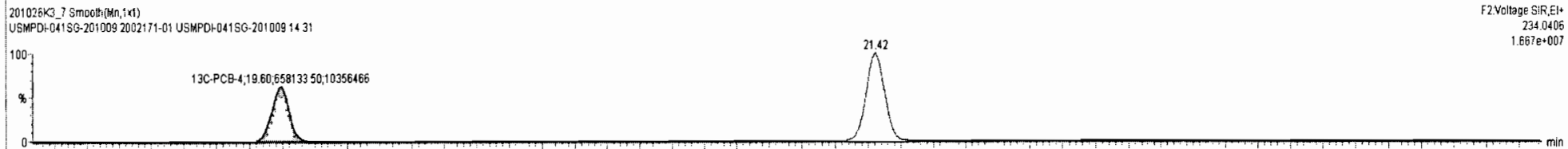
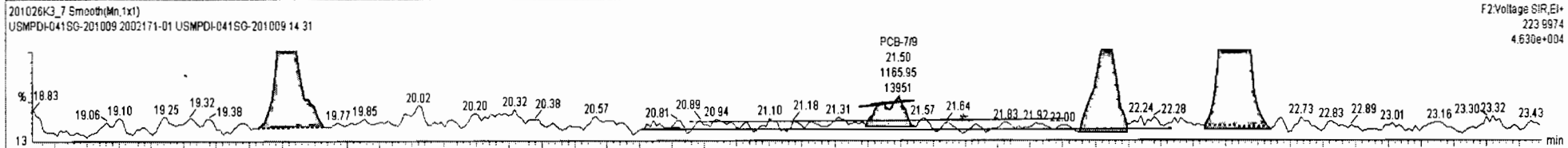
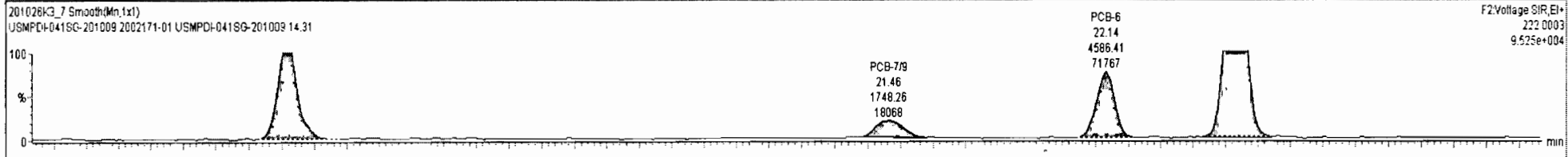
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201026K3\_7 - 2002171-01 USMPDI-041SG-201009 14.31 - USMPDI-041SG-201009

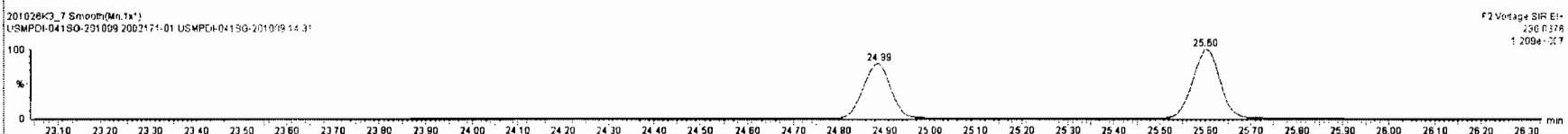
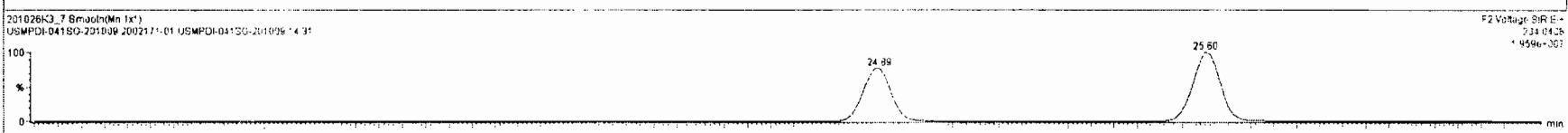
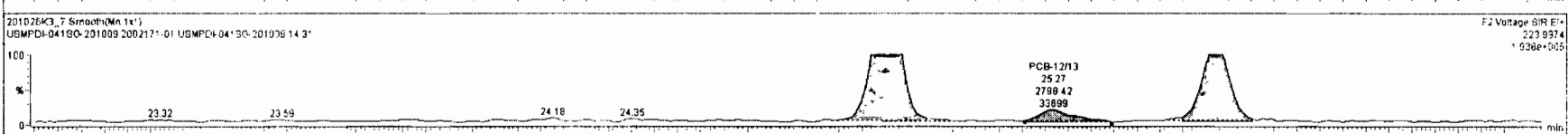
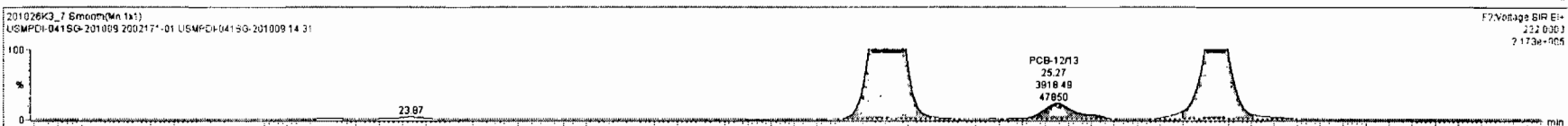
#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-178	4.21e5	0.47	NO	1.0506	5.012	45.98	45.97	0.923	0.923	NO	21.37	107	1.57	
224	224 Total Mono-PCBs				1.1665	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	197.1		5.34	197.1
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1728		11.4	1737
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2565

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	19.68	19.62	7.496e3	5.244e3	1.560	1.43	NO	19.219	19.219
2	5 PCB-7/9	21.48	21.46	1.748e3	1.166e3	1.560	1.50	NO	3.4765	3.4765
3	6 PCB-6	22.13	22.14	4.586e3	3.353e3	1.560	1.37	NO	8.8841	8.8841
4	7 PCB-5/8	22.54	22.53	1.787e4	1.178e4	1.560	1.52	NO	34.217	34.217
5	9 PCB-11	24.91	24.91	4.919e4	3.078e4	1.560	1.60	NO	81.826	81.826
6	10 PCB-12/13	25.34	25.27	3.918e3	2.798e3	1.560	1.40	NO	7.5402	7.5402



#	Name	Resp	RA	n/y	RRF	wt/Acl	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
223	223 1OC-PCB-178	4.21e5	0.47	NO	1.0508	5.012	45.90	45.97	0.923	0.923	NO	2137	107	1.57	
224	224 Total Mono-PCBs				1.1695	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	196.1		6.34	196.1
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.5		7.61	395.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1728		11.4	1737
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2565

#	Name	Pred RT	RT	nt Resp	m2 Resp	** Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-470	19.69	19.82	7.49e3	5.244e3	1.500	1.43	NO	19.219	19.219
2	5 PCB-78	21.40	21.46	1.749e3	1.169e3	1.500	1.50	NO	3.4765	3.4765
3	6 PCB-5	22.13	22.14	4.596e3	3.353e3	1.500	1.37	NO	8.8841	8.8841
4	7 PCB-58	22.54	22.53	1.787e4	1.178e4	1.500	1.52	NO	34.217	34.217
5	9 PCB-11	24.91	24.91	4.993e4	2.994e4	1.560	1.64	NO	80.807	80.807
6	10 PCB-12/13	25.34	25.27	3.918e3	2.798e3	1.560	1.40	NO	7.5402	7.5402

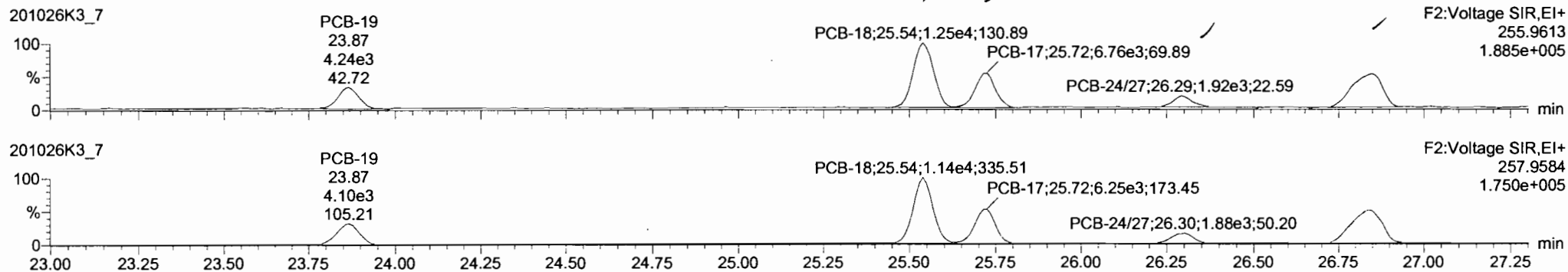


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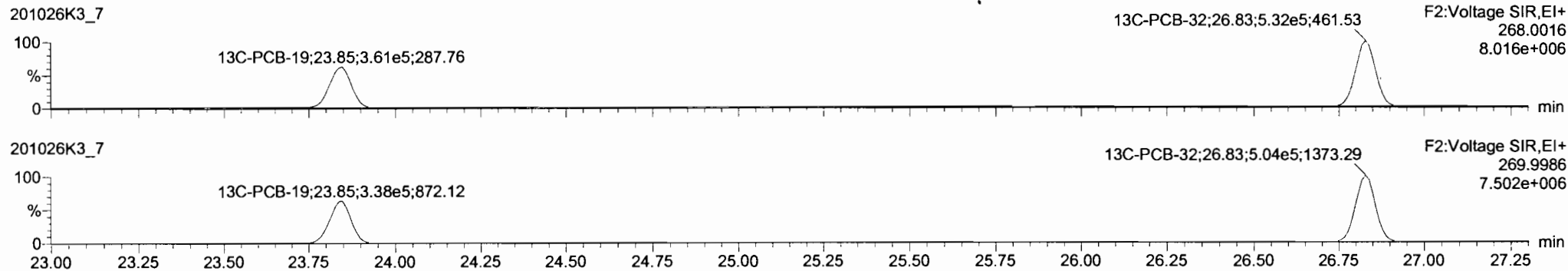
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_7, Date: 27-Oct-2020, Time: 16:58:48, ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

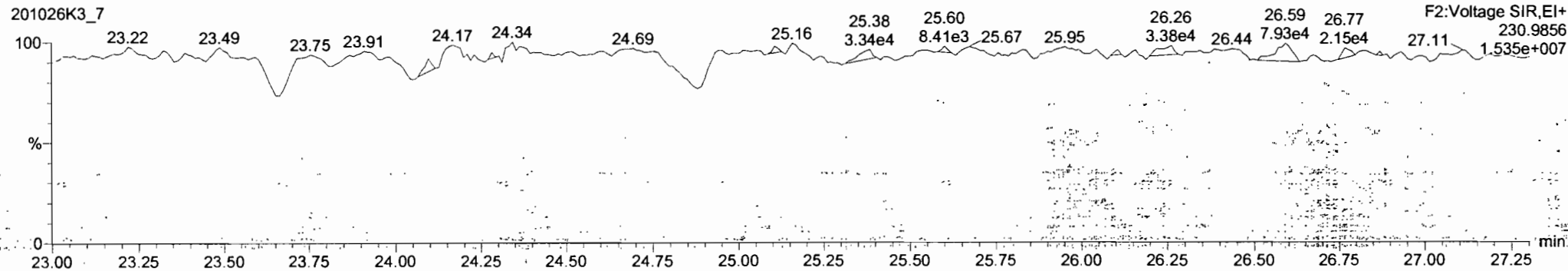
**PCB-19**



**13C-PCB-19**



**PFK2b**





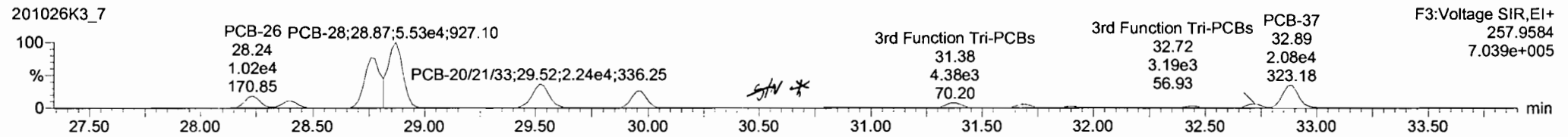
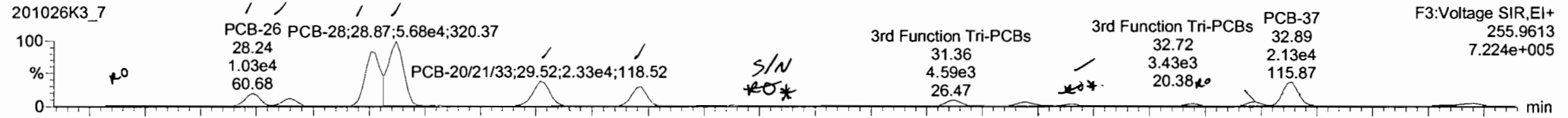
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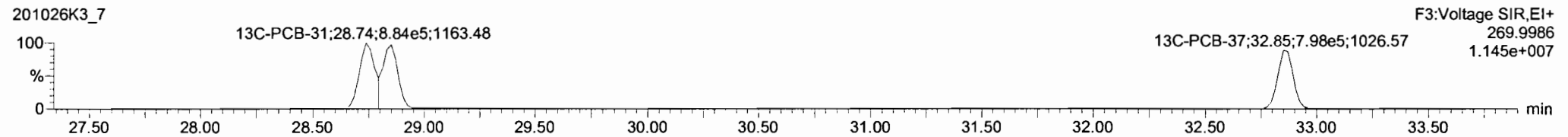
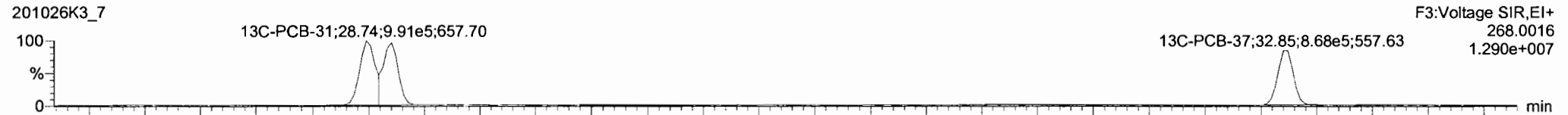
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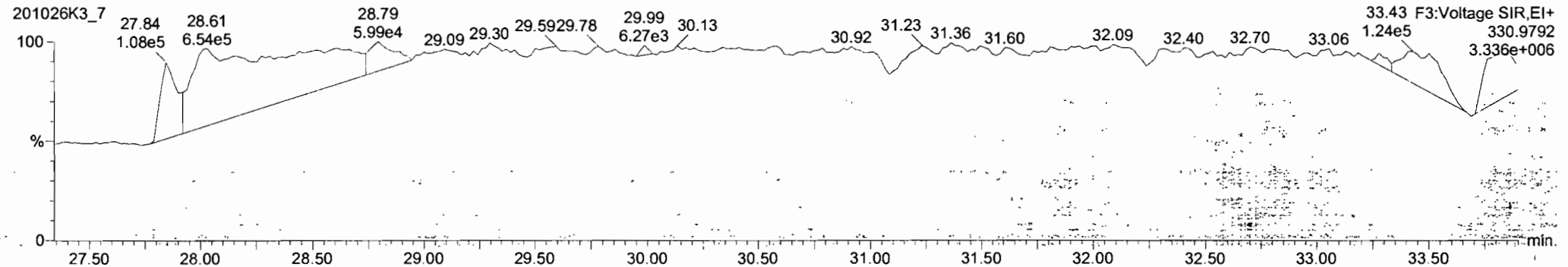
**PCB-34**



**13C-PCB-28**



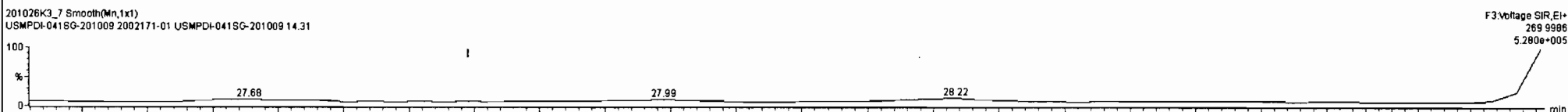
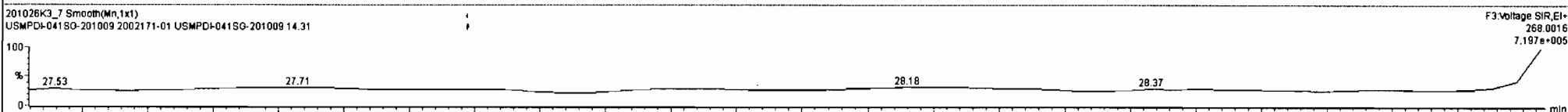
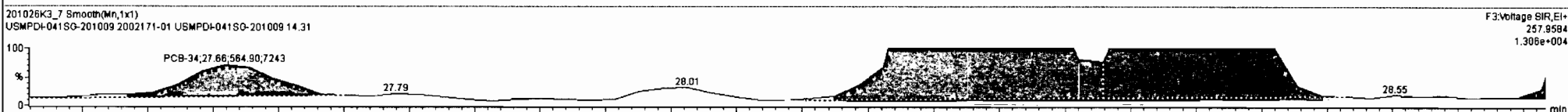
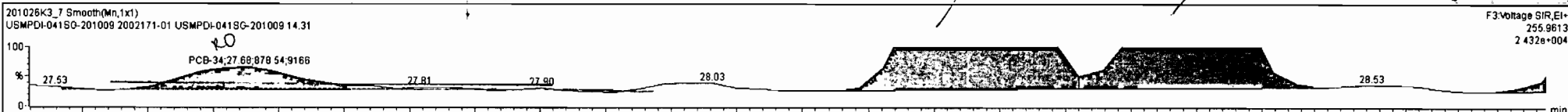
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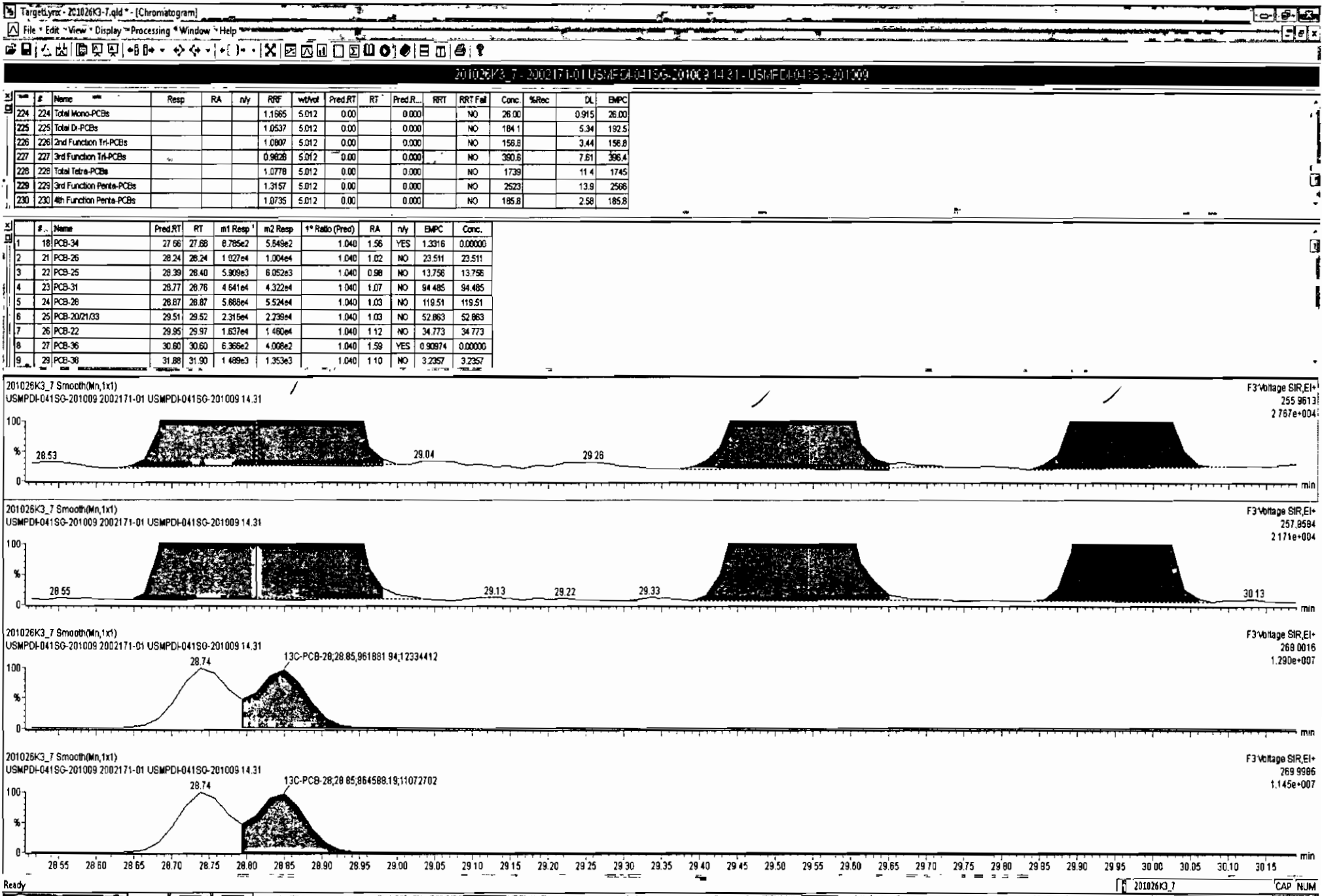


201026K3\_7 - 2002171-01 USMPDI-041SG-201009 14 31 - USMPDI-041SG-201009

#	Name	Resp	RA	n/y	RRF	w/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
225	225 Total Di-PCBs				1.0537	5.012	0.00	0.000		NO		191.9		5.34	191.9
226	226 2nd Function Tri-PCBs				1.0907	5.012	0.00	0.000		NO		156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00	0.000		NO		369.8		7.81	368.8
228	228 Total Tetra-PCBs				1.0778	5.012	0.00	0.000		NO		1749		11.4	1751
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00	0.000		NO		2520		13.9	2563
230	230 4th Function Penta-PCBs				1.0735	5.012	0.00	0.000		NO		187.1		2.58	187.1
231	231 3rd Function Hexa-PCBs				0.9505	5.012	0.00	0.000		NO		717.2		4.83	733.9

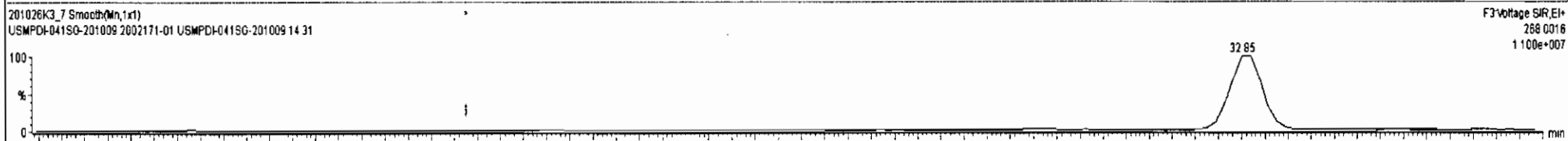
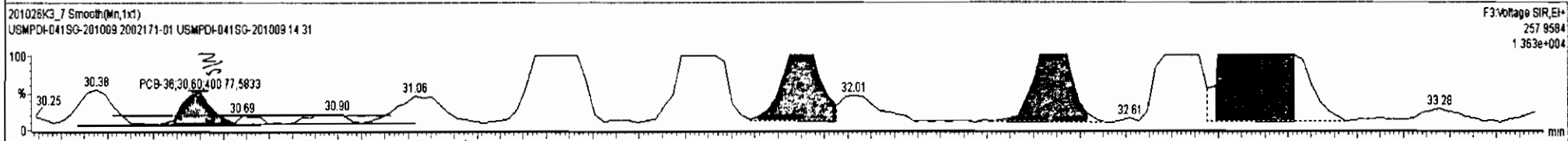
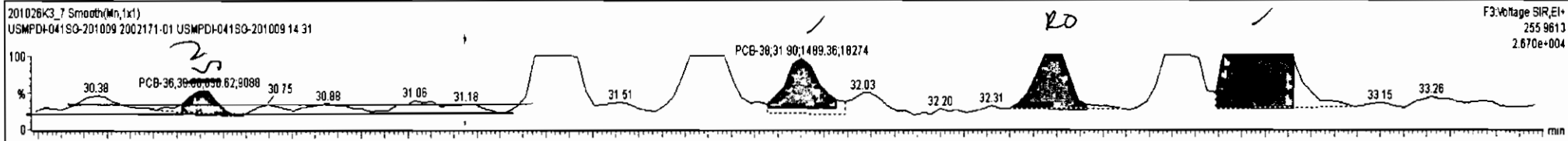
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1	18 PCB-34	27.66	27.68	8.785e2	5.649e2	1.040	1.56	YES	1.3316	0.00000
2	21 PCB-26	28.24	28.24	1.027e4	1.012e4	1.040	1.01	NO	23.604	23.604
3	22 PCB-25	28.39	28.40	5.905e3	6.161e3	1.040	0.96	NO	13.882	13.882
4	23 PCB-31	28.77	28.76	4.646e4	4.322e4	1.040	1.08	NO	94.542	94.542
5	24 PCB-28	28.87	28.87	5.684e4	5.533e4	1.040	1.03	NO	119.56	119.56
6	25 PCB-20/21/23	29.51	29.52	2.334e4	2.244e4	1.040	1.04	NO	53.139	53.139
7	26 PCB-22	29.95	29.97	1.639e4	1.461e4	1.040	1.12	NO	34.817	34.817
8	27 PCB-36	30.60	30.60	6.539e2	4.119e2	1.040	1.59	YES	0.93488	0.00000
9	29 PCB-38	31.88	31.90	1.862e3	1.369e3	1.040	1.36	YES	3.1789	0.00000





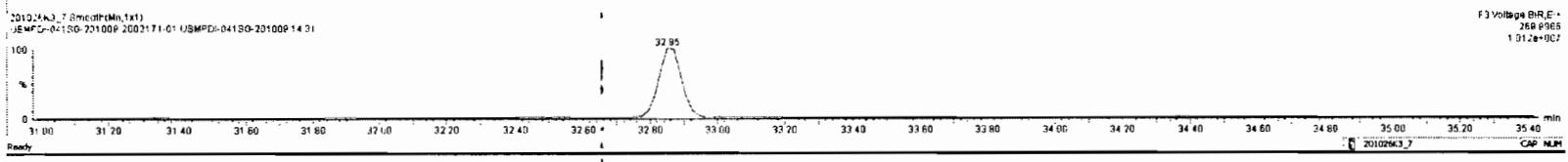
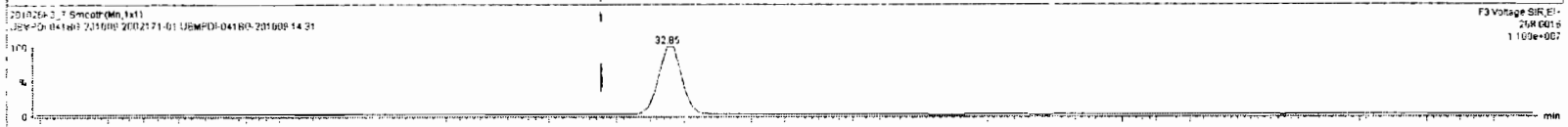
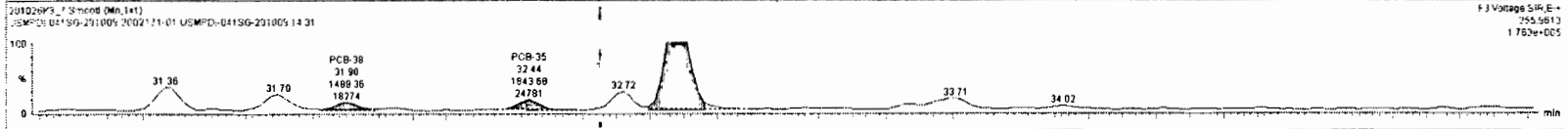
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224	224 Total Mono-PCBs				1.1665	5.012	0.00		0.000		NO	25.00		0.915	25.00
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	184.1		5.34	192.5
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9826	5.012	0.00		0.000		NO	350.5		7.61	356.4
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1739		11.4	1745
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2523		13.9	2566
230	230 4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.8		2.58	185.8

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	18 PCB-34	27.86	27.68	8.785e2	5.649e2	1.040	1.56	YES	1.3315	0.00000
2	21 PCB-26	28.24	28.24	1.027e4	1.004e4	1.040	1.02	NO	23.511	23.511
3	22 PCB-25	28.39	28.40	5.909e3	6.052e3	1.040	0.98	NO	13.796	13.796
4	23 PCB-31	28.77	28.76	4.641e4	4.322e4	1.040	1.07	NO	94.485	94.485
5	24 PCB-28	28.87	28.87	5.686e4	5.524e4	1.040	1.03	NO	119.51	119.51
6	25 PCB-20/21/33	29.51	29.52	2.316e4	2.239e4	1.040	1.03	NO	52.863	52.863
7	26 PCB-22	29.95	29.97	1.537e4	1.460e4	1.040	1.12	NO	34.773	34.773
8	27 PCB-36	30.60	30.60	5.366e2	4.008e2	1.040	1.59	YES	0.90974	0.00000
9	29 PCB-36	31.88	31.90	1.488e3	1.353e3	1.040	1.10	NO	3.2357	3.2357



#	Name	Resp	RA	CV	RP	Wt/Wt	Pred RT	RT	Fred R	RRT	RRT Int	Conc	%Rec	DL	EMPC
223	1,2,3,4-PCB-176	4.21e5	0.47	NO	1.0508	5.012	45.90	45.97	0.923	0.923	NO	21.37	107	1.57	
224	224 Total Mono-PCBs				1.1965	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	196.1		5.34	196.1
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9026	5.012	0.00		0.000		NO	390.6		7.61	390.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	17.26		11.4	17.37
229	229 3rd Function Penta-PCBs				1.2157	5.012	0.00		0.000		NO	25.21		13.91	25.65

#	Name	Pred RT	RT	Int Resp	Ext Resp	* Ratio (Pred)	RA	CV	EMPC	Conc
1	18 PCB-34	27.66	27.68	8.785e2	5.849e2	1.040	1.56	YES	1.3316	0.00000
2	21 PCB-26	28.24	28.24	1.027e4	1.004e4	1.040	1.02	NO	23.511	23.511
3	22 PCB-25	28.36	28.40	5.909e3	6.052e3	1.040	0.98	NO	13.756	13.756
4	23 PCB-31	28.77	28.78	4.641e4	4.322e4	1.040	1.07	NO	84.485	84.485
5	24 PCB-28	28.87	28.87	5.088e4	5.524e4	1.040	1.03	NO	119.51	119.51
6	25 PCB-20(21/3)	29.51	29.52	2.216e4	2.239e4	1.040	1.03	NO	52.863	52.863



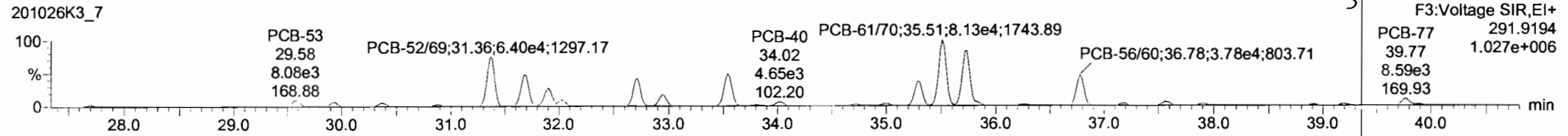
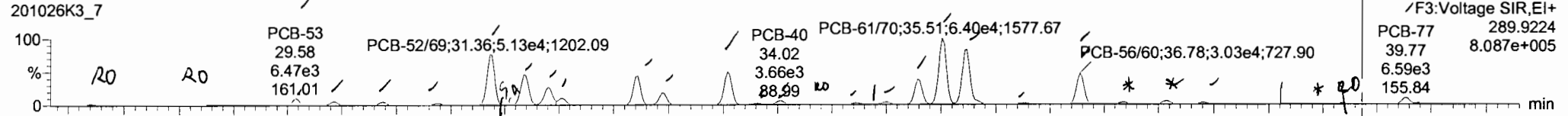
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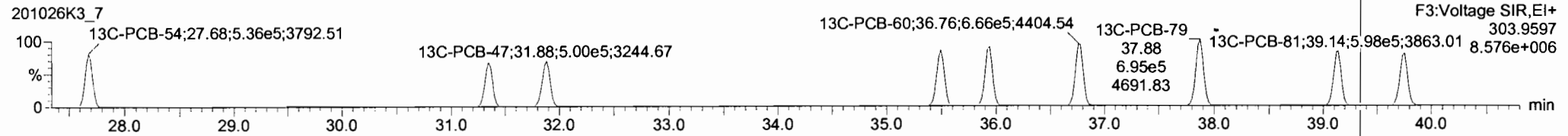
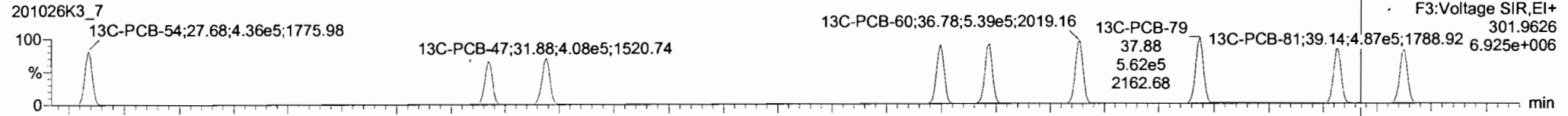
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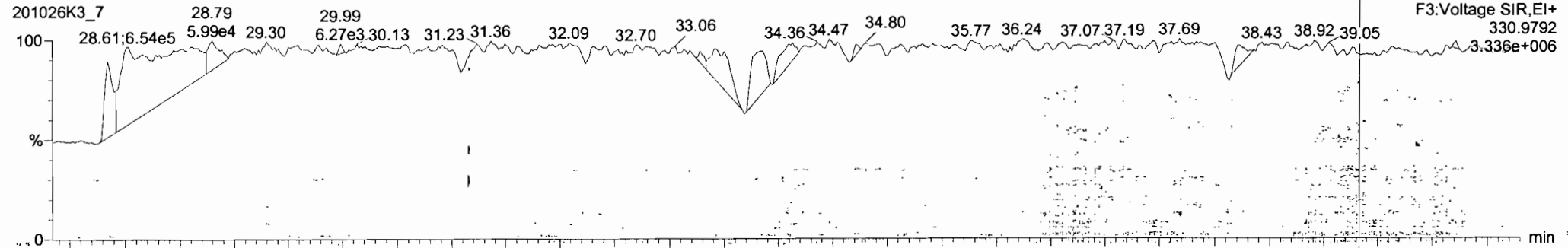
PCB-54



13C-PCB-54



PFK3a



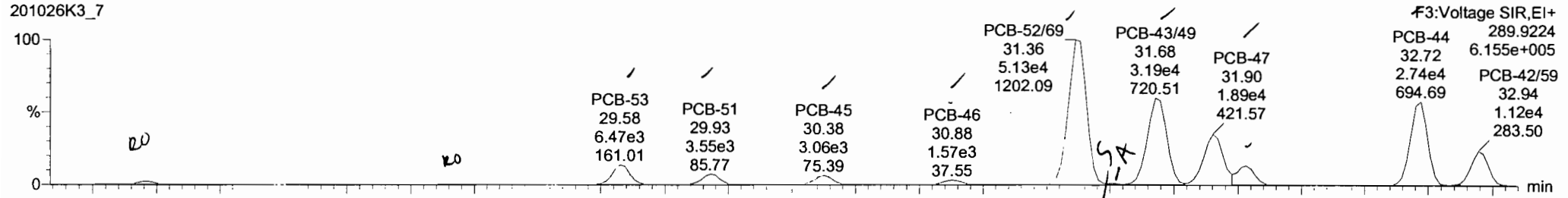
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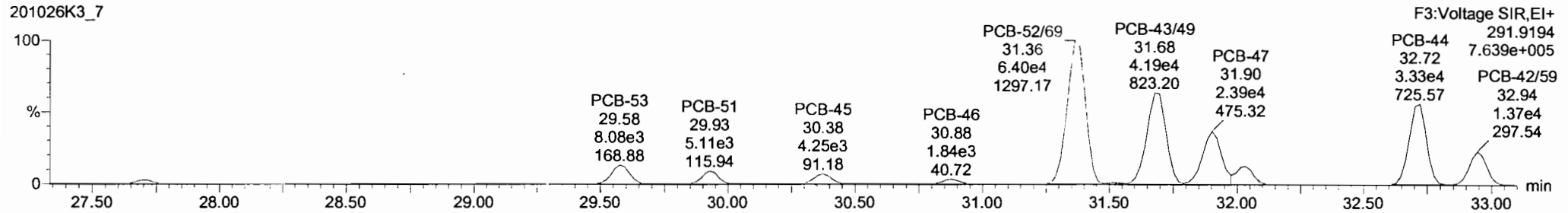
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**PCB-50**

201026K3\_7

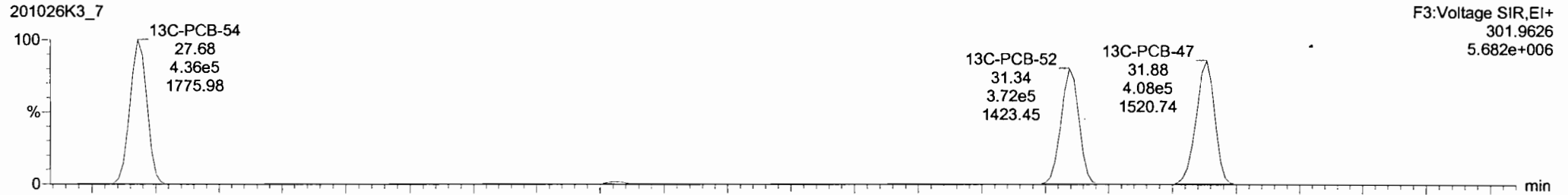


201026K3\_7

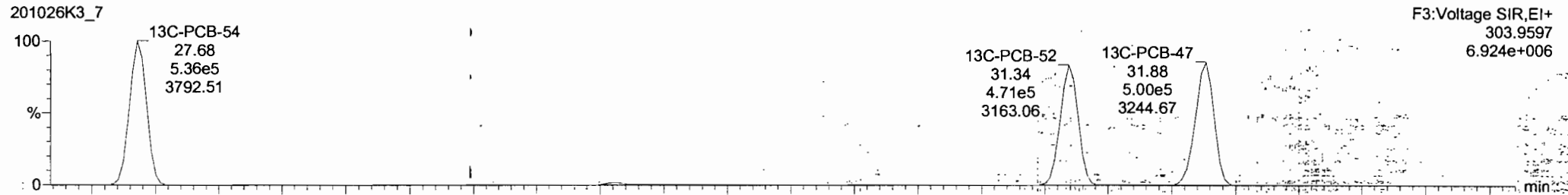


**13C-PCB-52**

201026K3\_7

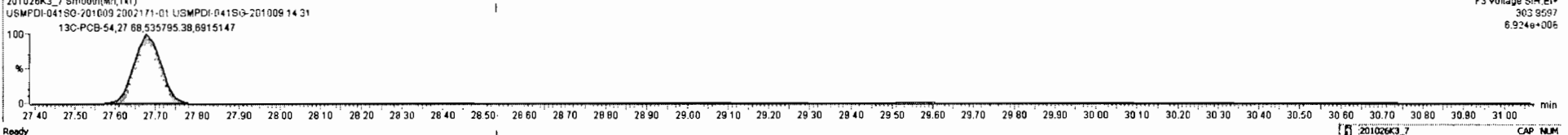
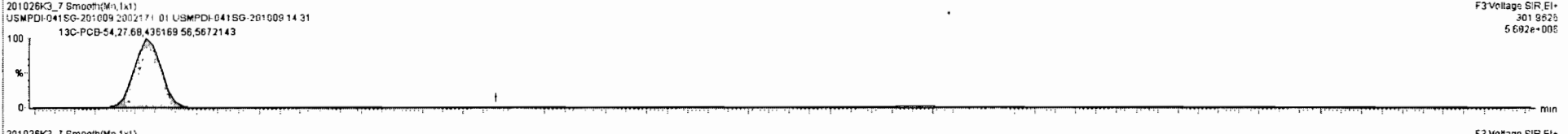
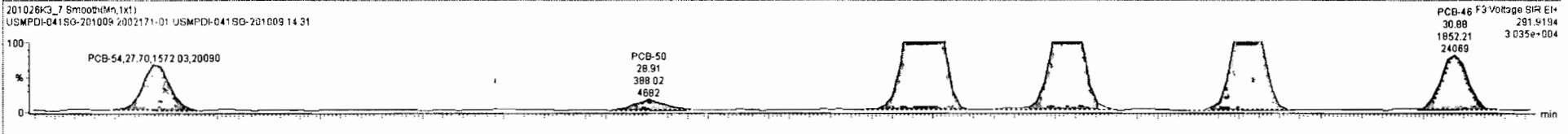
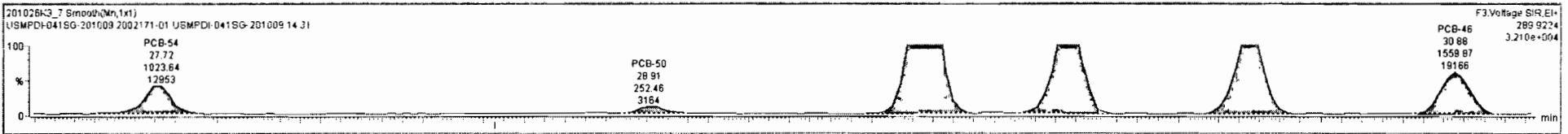


201026K3\_7



#	Name	Resp	RA	n/y	RRF	wtAvl	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
223	223 13C-PCB-178	4.21e5	0.47	NO	1.0508	5.012	45.98	45.97	0.923	0.923	NO	2137	107	1.57	
224	224 Total Mono-PCBs				1.1665	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	196.1		5.34	196.1
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1728		11.4	1737
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.91	2565

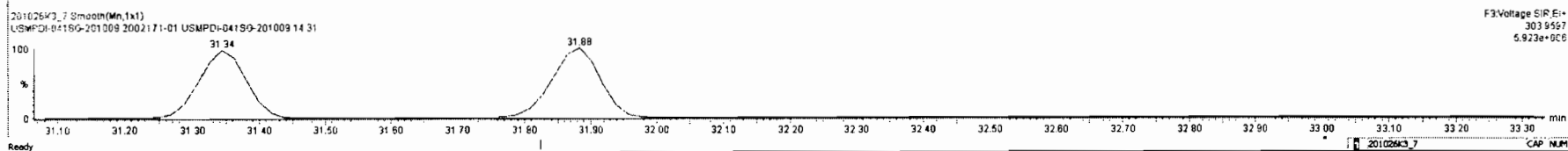
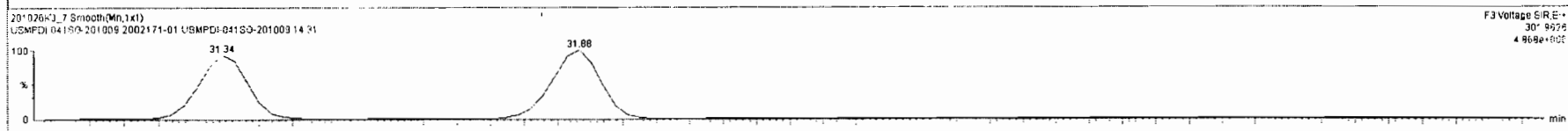
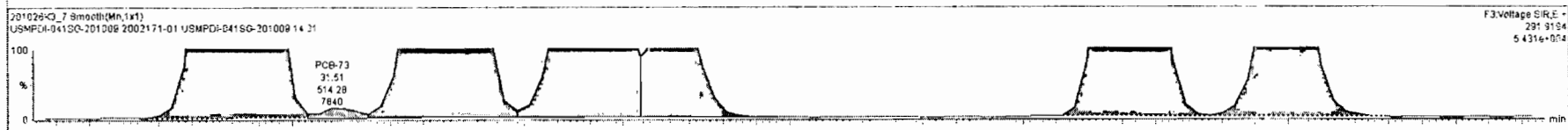
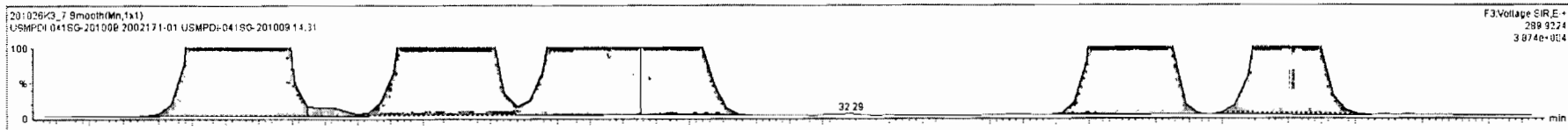
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	** Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.70	27.72	1.024e3	1.572e3	0.770	0.65	YES	4.4735	0.00000
2	33 PCB-50	28.91	28.91	2.525e2	3.890e2	0.770	0.65	YES	1.3546	0.00000
3	34 PCB-53	29.58	29.58	8.448e3	8.064e3	0.770	0.80	NO	34.478	34.478
4	35 PCB-51	29.93	29.93	3.482e3	5.010e3	0.770	0.69	NO	18.879	18.879
5	36 PCB-45	30.38	30.38	3.046e3	4.235e3	0.770	0.72	NO	20.088	20.088
6	37 PCB-46	30.88	30.88	1.560e3	1.852e3	0.770	0.84	NO	9.7269	9.7269





#	Name	Resp	RA	n1y	RRF	wtAvl	Pred RT	RT	Pred R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
223	223 13C-PCB-17B	4.21e5	0.47	NO	1.0508	5.012	45.98	45.97	0.923	0.923	NO	21.37	107	1.57	
224	224 Total Mono-PCBs				1.1865	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	196.1		5.34	196.1
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9026	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1730		11.4	1739
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2565

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n1y	EMPC	Conc.
1	32 PCB-54	27.70	27.72	1.024e3	1.572e3	0.770	0.85	YES	4.4735	0.00000
2	33 PCB-50	28.91	28.91	2.525e2	3.880e2	0.770	0.85	YES	1.3546	0.00000
3	34 PCB-53	29.58	29.58	6.448e3	8.054e3	0.770	0.80	NO	34.478	34.478
4	35 PCB-51	29.93	29.93	3.482e3	5.013e3	0.770	0.69	NO	18.879	18.879
5	36 PCB-45	30.38	30.38	3.046e3	4.235e3	0.770	0.72	NO	20.088	20.088
6	37 PCB-46	30.88	30.88	1.560e3	1.852e3	0.770	0.84	NO	9.7269	9.7269



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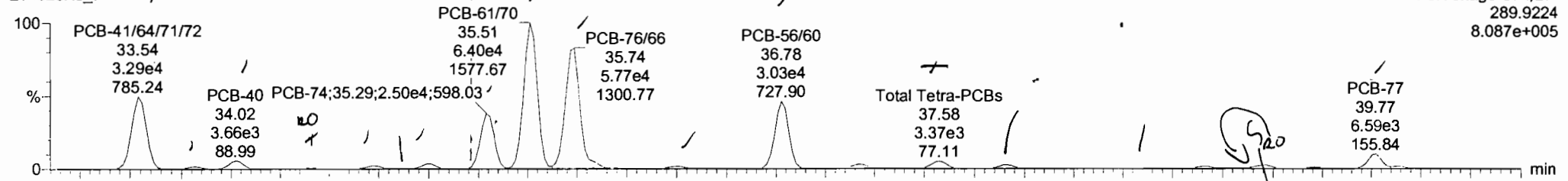
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

\* DF 11/09/20

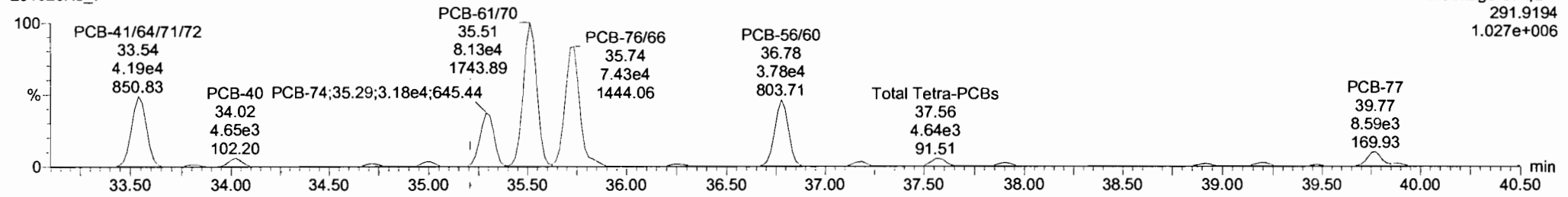
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PCB-68

201026K3\_7

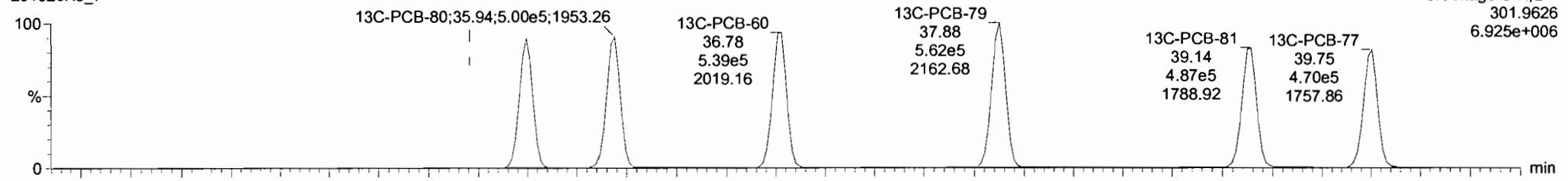


201026K3\_7

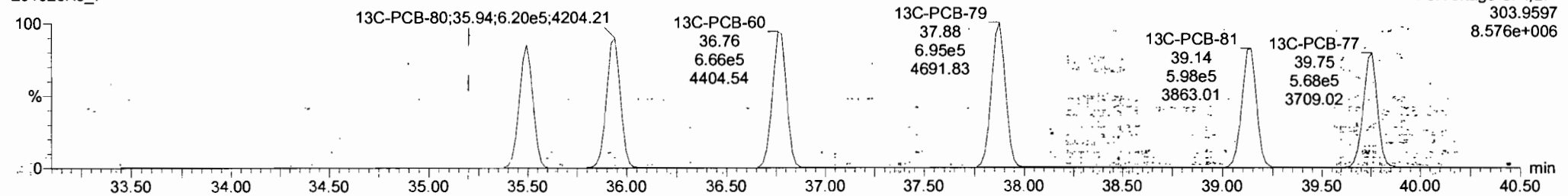


13C-PCB-60

201026K3\_7

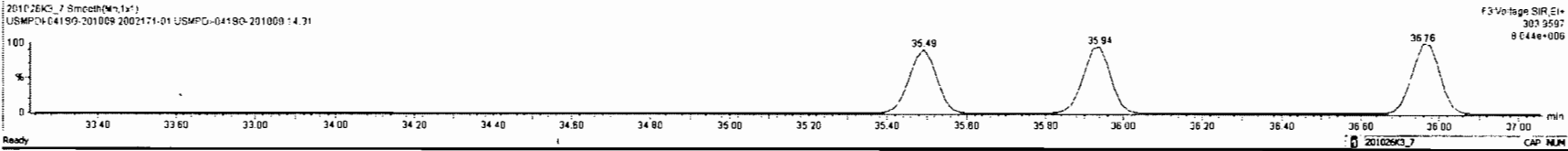
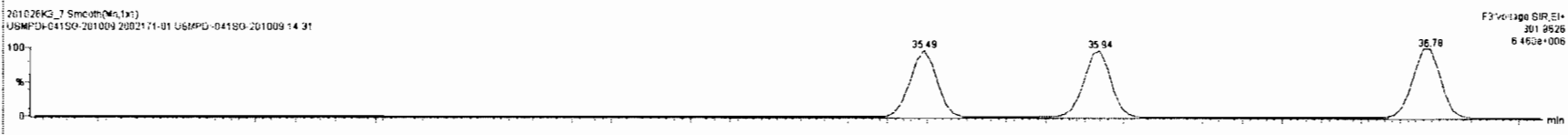
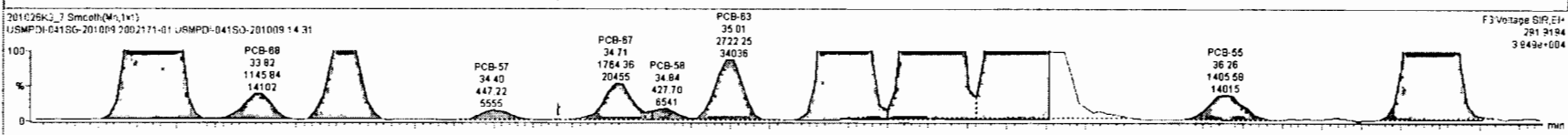
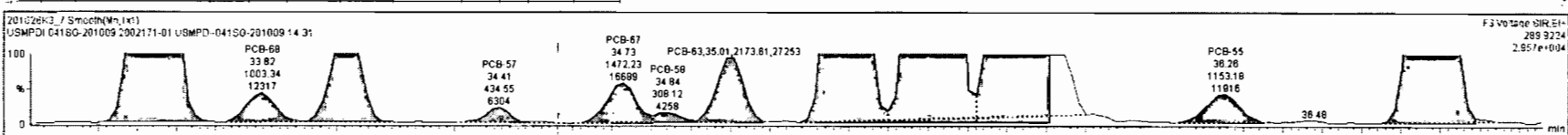


201026K3\_7



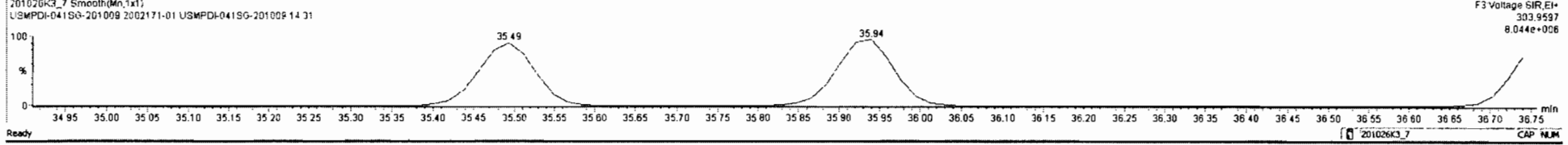
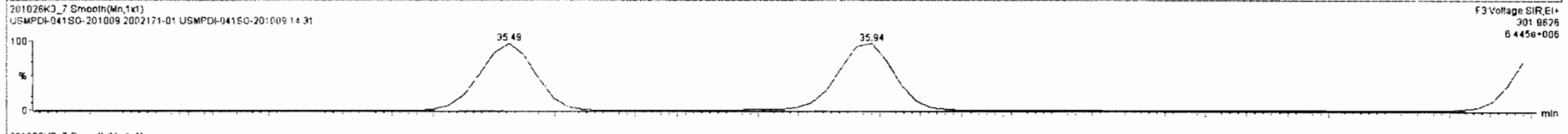
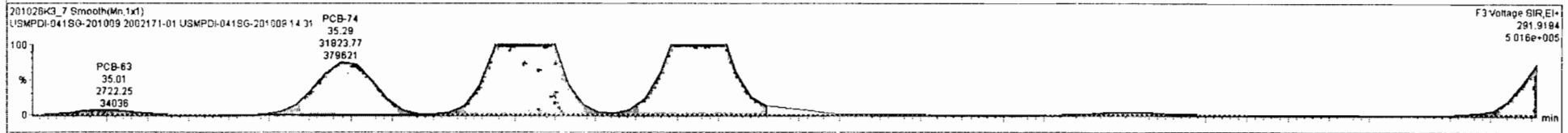
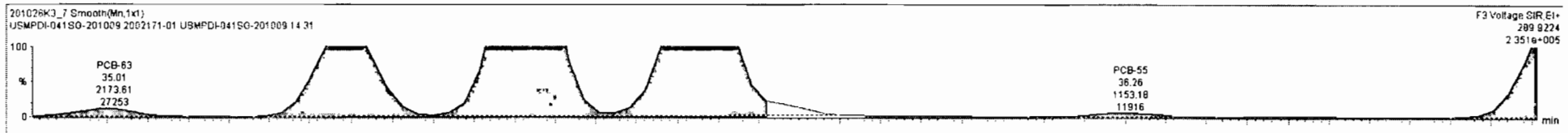
#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R <sub>1</sub>	RRT	RRT/Fail	Conc.	%Rec	DL	EMPC
223	13C-PCB-178	4.21e5	0.47	NO	1.0508	5.012	45.98	45.97	0.923	0.923	NO	2137	107	1.57	
224	Total Mono-PCBs				1.1665	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	196.1		5.34	196.1
226	2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.8		7.61	395.5
228	Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1731		11.4	1740
229	3rd Function Penta-PCBs				1.3157	5.012	0.001		0.000		NO	2521		13.91	2565

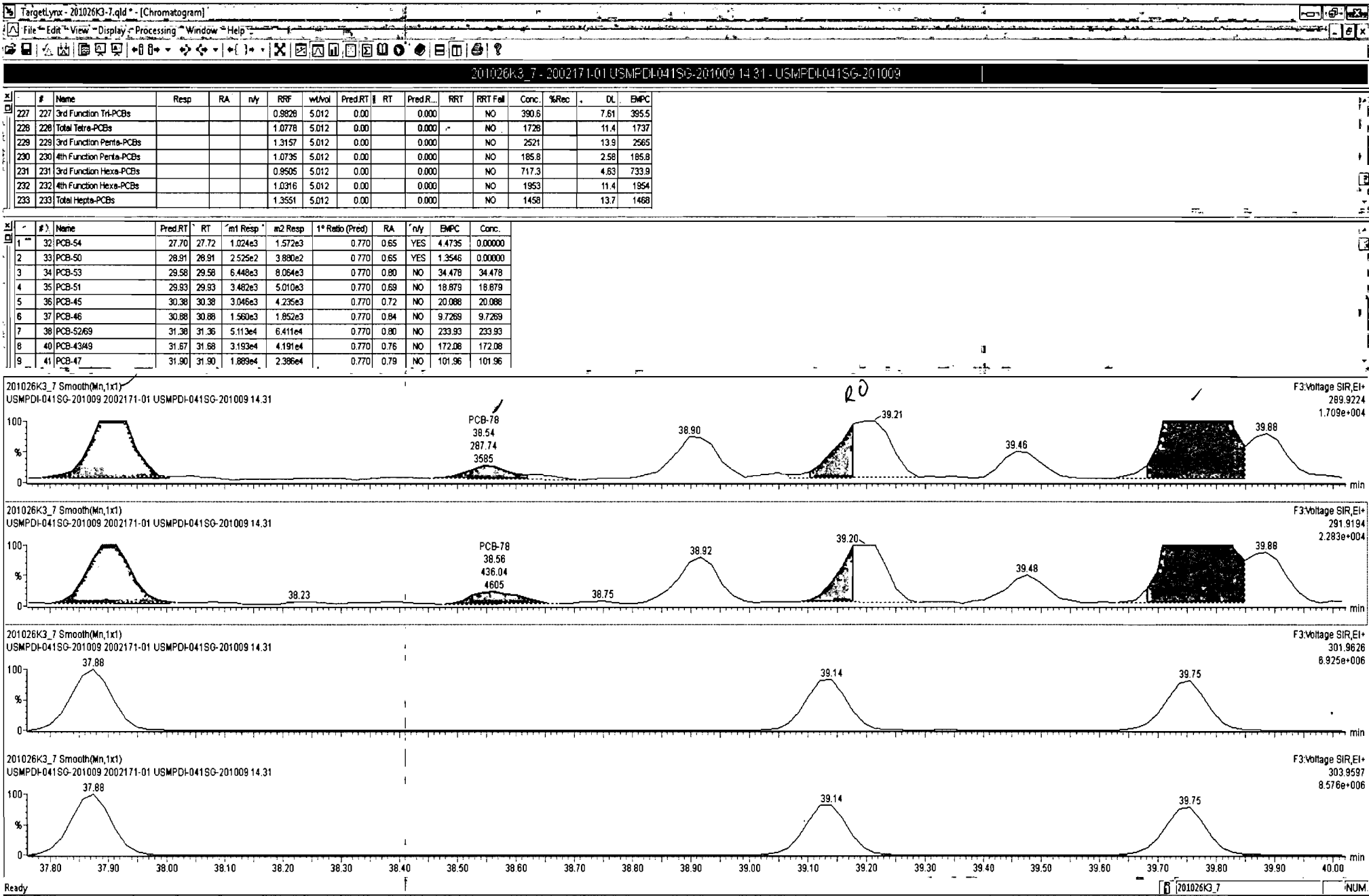
#	Name	Pred RT	RT	m1 Resp	#2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.70	27.72	1.024e3	1.572e3	0.770	0.95	YES	4.4735	0.00000
2	33 PCB-50	29.91	29.91	2.525e2	3.980e2	0.770	0.95	YES	1.3546	0.00000
3	34 PCB-53	29.58	29.58	6.448e3	8.064e3	0.770	0.90	NO	34.478	34.478
4	35 PCB-51	29.83	29.83	3.492e3	5.010e3	0.770	0.89	NO	18.879	18.879
5	36 PCB-45	30.38	30.38	3.046e3	4.235e3	0.770	0.72	NO	20.088	20.088
6	37 PCB-46	30.88	30.88	1.500e3	1.852e3	0.770	0.94	NO	9.7269	9.7269



#	Name	Resp	RA	nV	RRF	wtAvl	Prod RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-178	4.21e5	0.47	NO	1.0508	5.012	45.98	45.97	0.923	0.923	NO	2137	107	1.57	
224	224 Total Mono-PCBs				1.1865	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	196.1		5.34	196.1
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1731		11.4	1740
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2565

#	Name	Prod RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc.
1	32 PCB-54	27.70	27.72	1.024e3	1.572e3	0.770	0.65	YES	4.4735	0.00000
2	33 PCB-50	28.91	28.91	2.525e2	3.880e2	0.770	0.65	YES	1.3546	0.00000
3	34 PCB-53	29.58	29.58	6.448e3	8.064e3	0.770	0.80	NO	34.478	34.478
4	35 PCB-51	29.93	29.93	3.482e3	5.010e3	0.770	0.69	NO	18.879	18.879
5	36 PCB-45	30.38	30.38	3.046e3	4.235e3	0.770	0.72	NO	20.088	20.088
6	37 PCB-46	30.88	30.88	1.580e3	1.852e3	0.770	0.84	NO	9.7269	9.7269



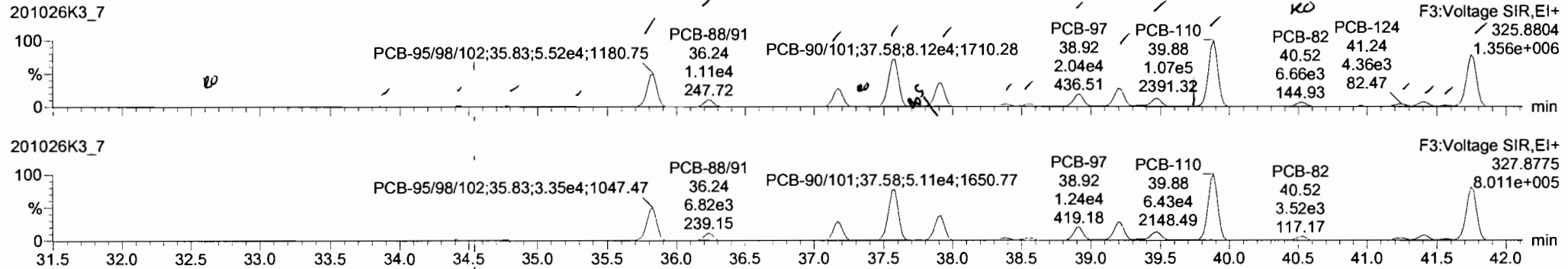


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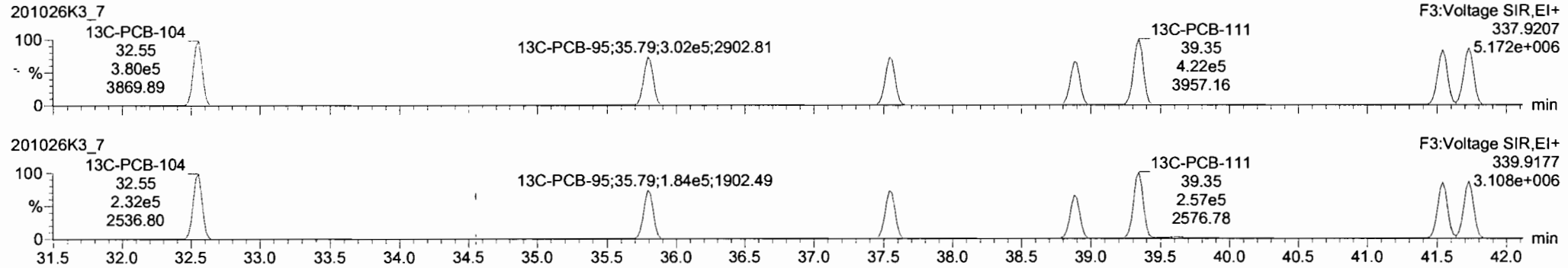
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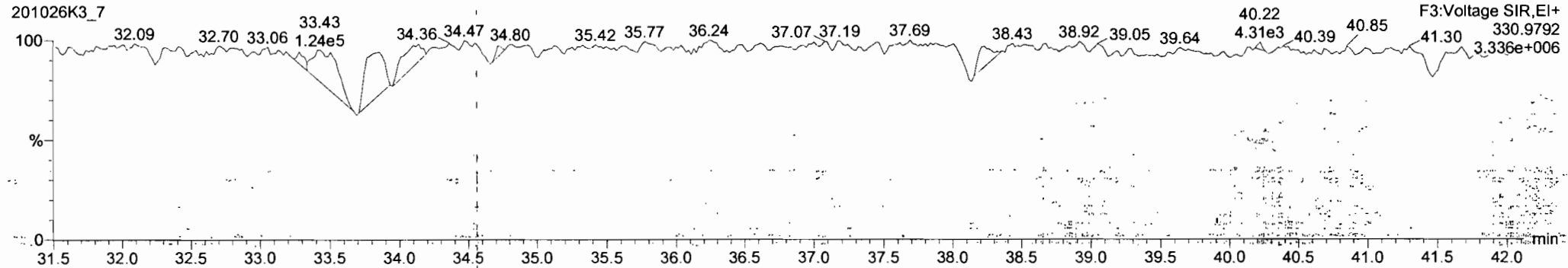
**PCB-104**



**13C-PCB-104**



**PFK3b**



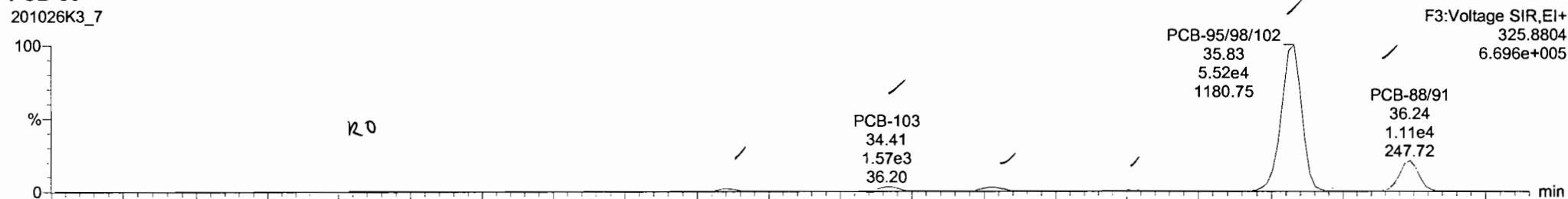
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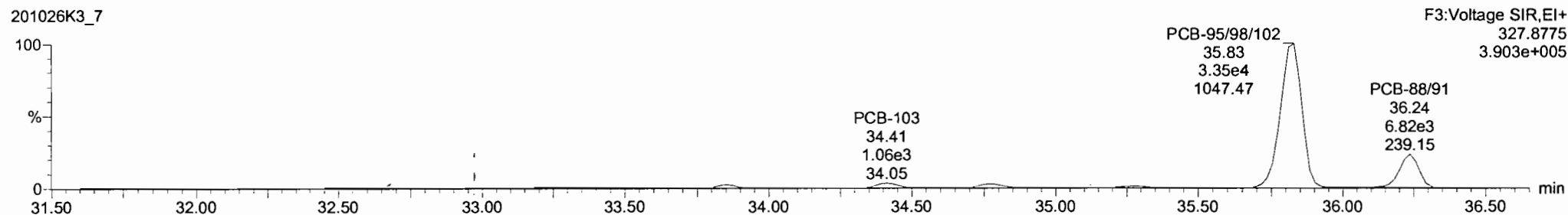
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**PCB-96**

201026K3\_7

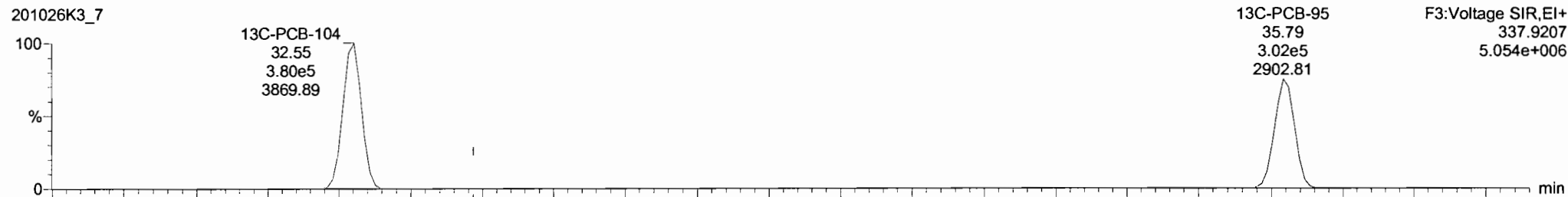


201026K3\_7

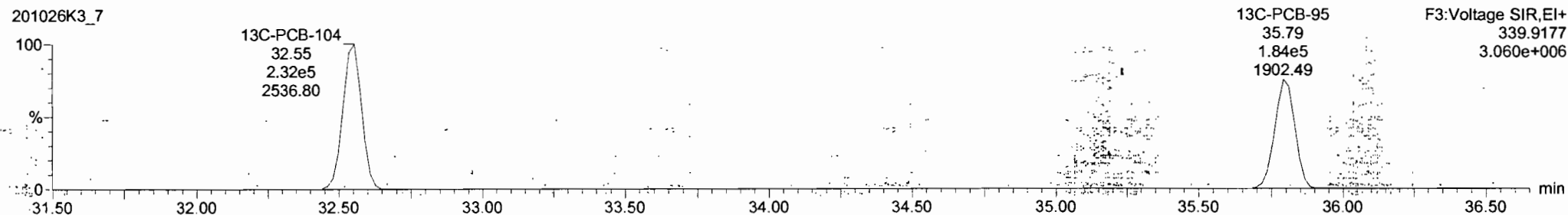


**13C-PCB-95**

201026K3\_7



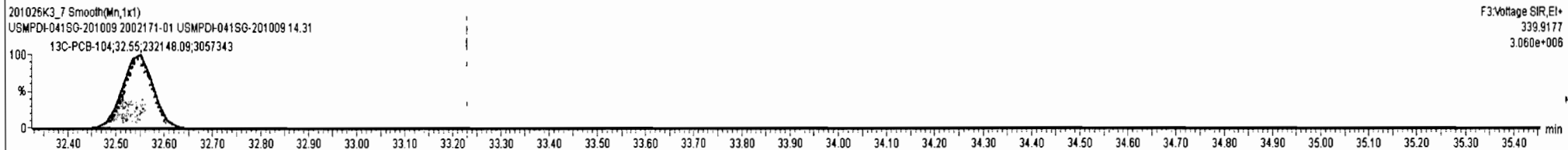
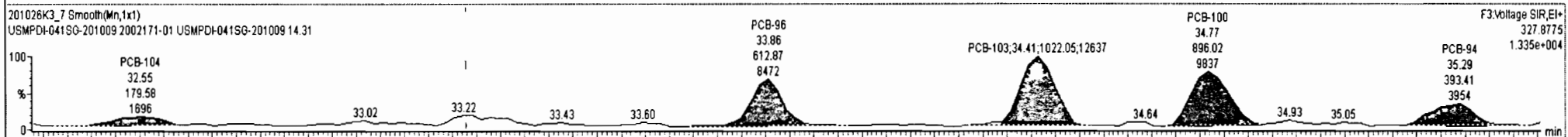
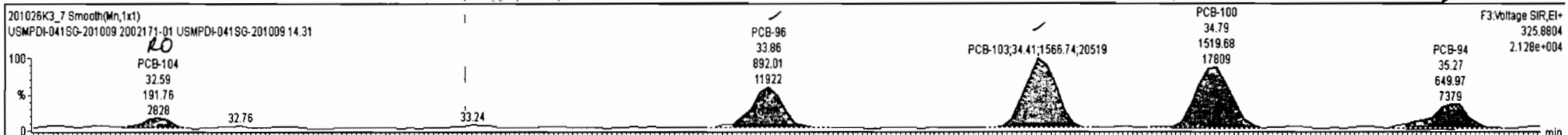
201026K3\_7



201026K3\_7 - 2002171-01 USMPDI-041SG-201009 14 31 - USMPDI-041SG-201009

#	Name	Resp	RA	nly	RRF	%Vol	Pred RT	RT	Pred R...	RRT	RRT Fd	Conc	%Rec	DL	EMPC
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	191.9		5.34	191.9
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	391.1		7.61	396.9
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1739		11.4	1745
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2520		13.8	2563
230	230 4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	187.1		2.58	187.1
231	231 3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	717.2		4.63	733.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	64 PCB-104	32.57	32.59	1.918e2	1.796e2	1.560	1.07	YES	0.91400	0.00000
2	65 PCB-96	33.88	33.86	8.920e2	6.129e2	1.560	1.46	NO	4.2506	4.2506
3	66 PCB-103	34.43	34.41	1.567e3	1.022e3	1.560	1.53	NO	9.0090	9.0090
4	67 PCB-100	34.81	34.79	1.520e3	8.960e2	1.560	1.70	NO	8.2561	8.2561
5	68 PCB-94	35.27	35.27	6.500e2	3.934e2	1.560	1.65	NO	4.5108	4.5108
6	69 PCB-95/98/102	35.74	35.83	5.524e4	3.353e4	1.560	1.65	NO	302.35	302.35
7	71 PCB-88/91	36.22	36.24	1.108e4	6.823e3	1.560	1.62	NO	68.956	68.956
8	73 PCB-84/92	37.17	37.17	2.916e4	1.736e4	1.560	1.68	NO	185.74	185.74
9	74 PCB-89	37.36	37.35	3.351e2	3.951e2	1.560	0.85	YES	2.0216	0.00000

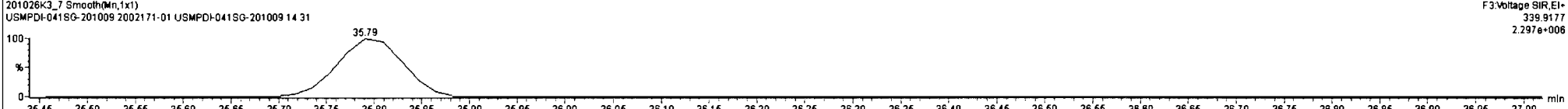
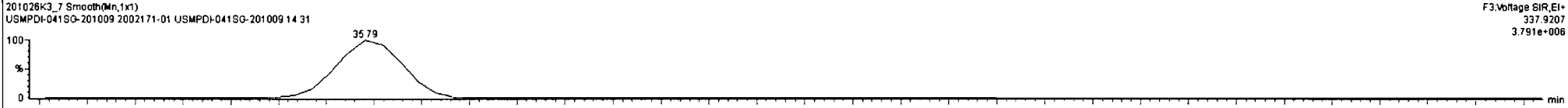
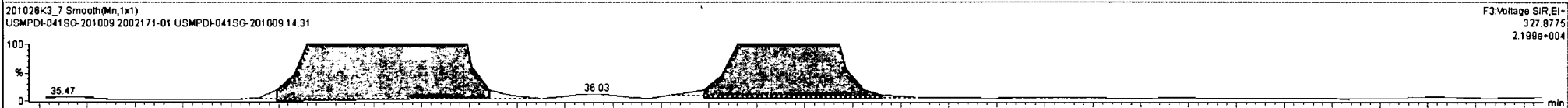
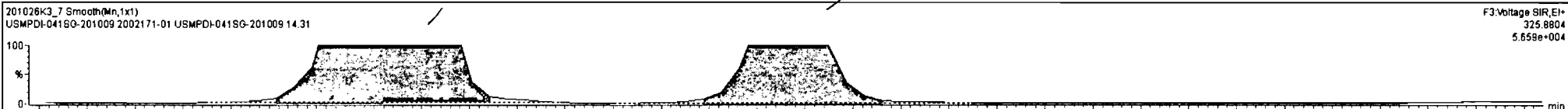




201026K3\_7 - 2002171-01 USMPDI-041SG-201009 14 31 - USMPDI-041SG-201009

#	Name	Resp %	RA	n/y	RRF	wVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
222	13C-PCB-79	1.26e6	0.81	NO	1.0821	5.012	37.87	37.88	0.968	0.968	NO	2140	107	1.45	
223	13C-PCB-178	4.21e5	0.47	NO	1.0508	5.012	45.98	45.97	0.923	0.923	NO	2137	107	1.57	
224	Total Mono-PCBs				1.1665	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	184.8		5.34	193.2
226	2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.81	395.5
228	Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1732		11.4	1739

#	Name	iPred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	64 PCB-104	32.57	32.59	1.918e2	1.796e2	1.560	1.07	YES	0.91400	0.00000
2	65 PCB-96	33.88	33.85	8.920e2	6.129e2	1.560	1.46	NO	4.2506	4.2506
3	66 PCB-103	34.43	34.41	1.567e3	1.022e3	1.560	1.53	NO	9.0090	9.0090
4	67 PCB-100	34.81	34.79	1.520e3	8.960e2	1.560	1.70	NO	8.2561	8.2561
5	68 PCB-94	35.27	35.27	6.500e2	3.934e2	1.560	1.65	NO	4.5108	4.5108
6	69 PCB-95/98/102	35.74	35.83	5.497e4	3.351e4	1.560	1.84	NO	301.32	301.32
7	71 PCB-88/81	36.22	36.24	1.100e4	6.941e3	1.560	1.59	NO	69.134	69.134
8	73 PCB-84/82	37.17	37.17	2.920e4	1.736e4	1.560	1.68	NO	185.89	185.89
9	74 PCB-89	37.36	37.35	5.234e2	4.137e2	1.560	1.27	YES	3.1580	0.00000



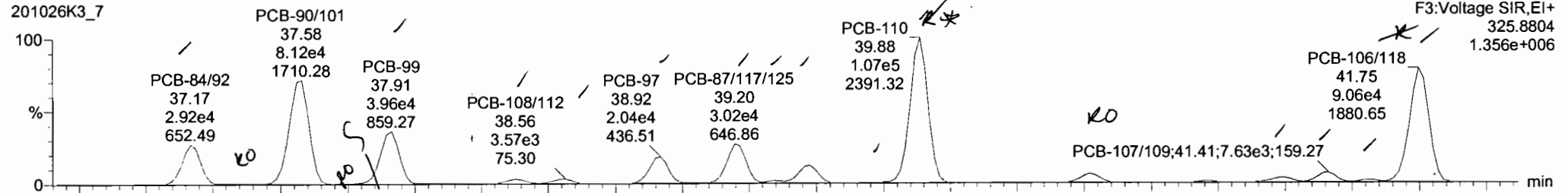
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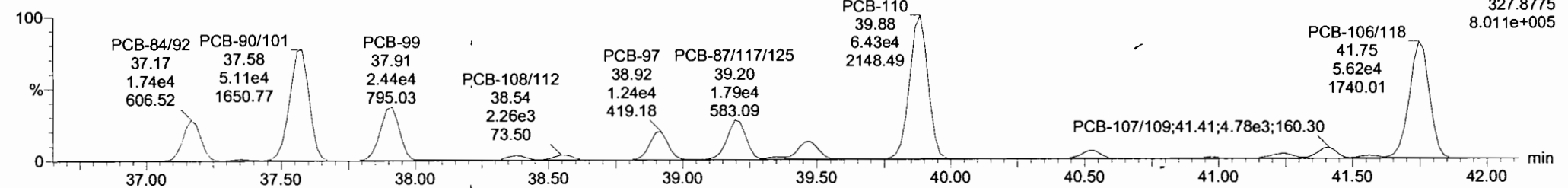
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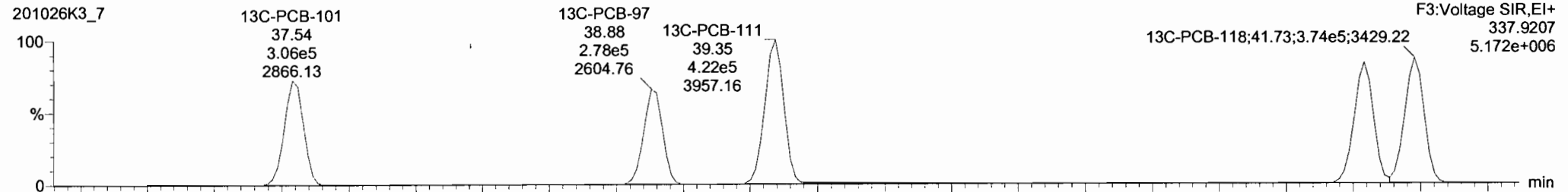
PCB-119



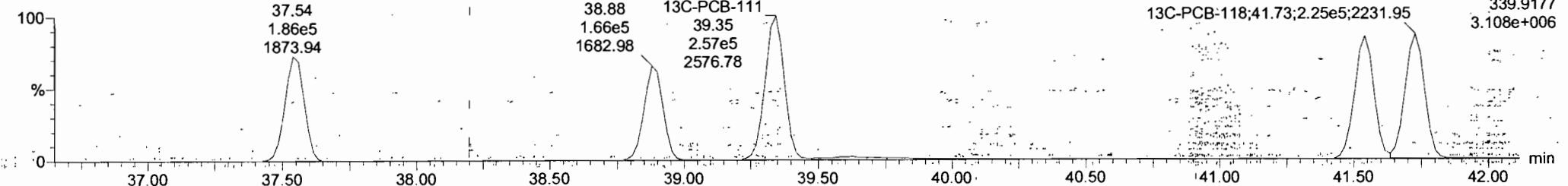
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13C-PCB-111

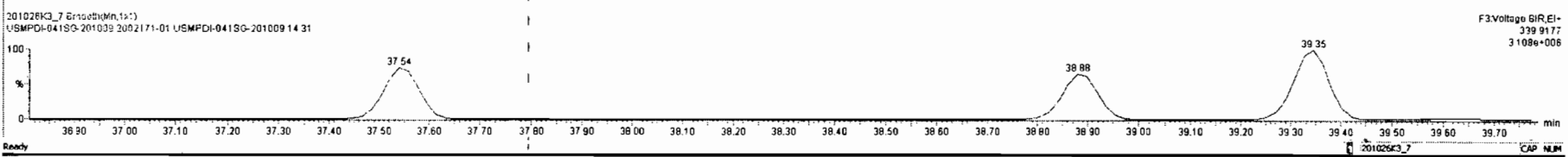
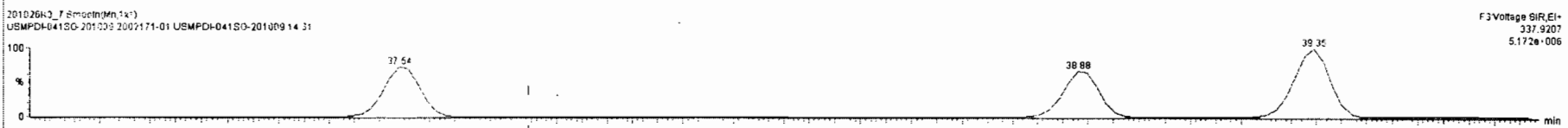
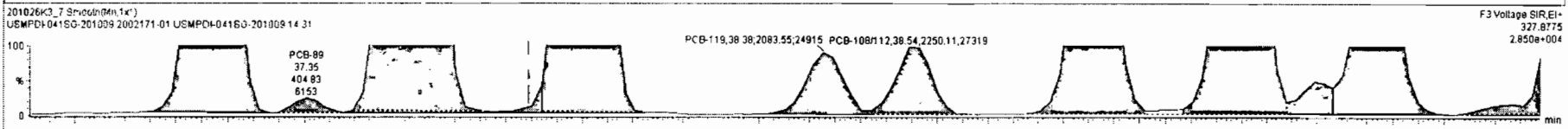
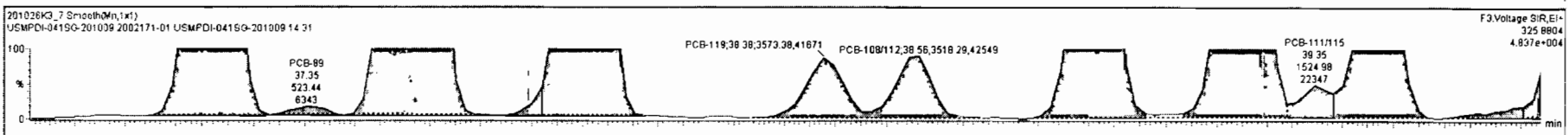


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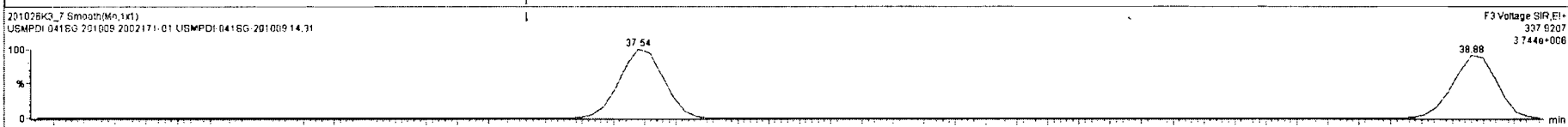
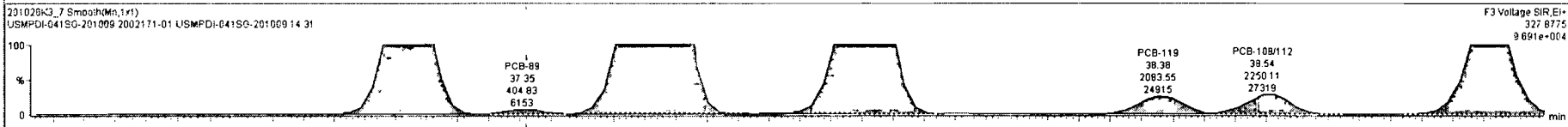
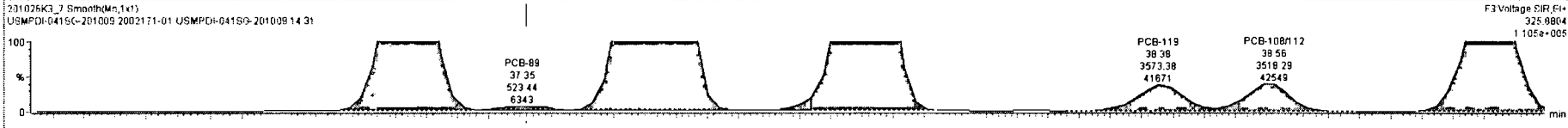
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223	13C-PCB-178	4.21e5	0.47	NO	1.0508	5.012	45.98	45.97	0.923	0.923	NO	2137	107	1.57	
224	Total Mono-PCBs				1.1665	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	196.1		5.34	196.1
226	2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	3rd Function Tri-PCBs				0.9826	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1731		11.4	1740
229	3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2522		13.91	2567

#	Name	Pred RT	RT	m1 Resp	m2 Resp	** Ratio (Pred)	RA	n/y	EMPC	Conc.
1	64 PCB-104	32.57	32.59	1.918e2	1.796e2	1.560	1.07	YES	0.91400	0.00000
2	65 PCB-96	33.88	33.85	8.920e2	8.129e2	1.560	1.46	NO	4.2506	4.2506
3	66 PCB-103	34.43	34.41	1.567e3	1.022e3	1.560	1.53	NO	9.0090	9.0090
4	67 PCB-100	34.81	34.79	1.520e3	8.960e2	1.560	1.70	NO	8.2561	8.2561
5	68 PCB-94	35.27	35.27	6.500e2	3.934e2	1.560	1.65	NO	4.5108	4.5108
6	69 PCB-95/98/102	35.74	35.83	5.497e4	3.351e4	1.560	1.64	NO	301.32	301.32



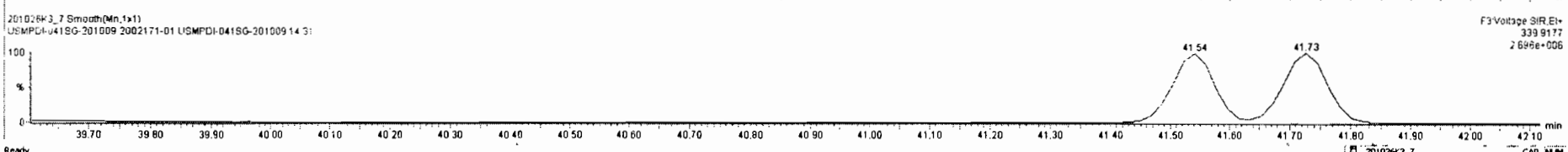
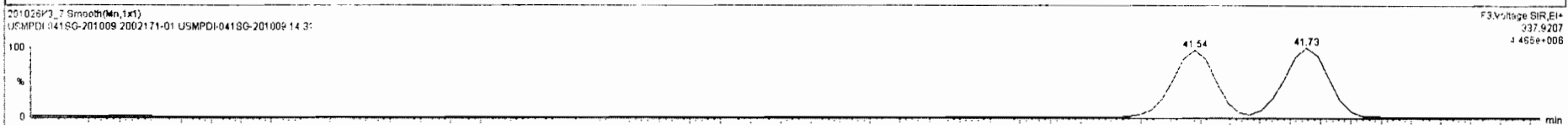
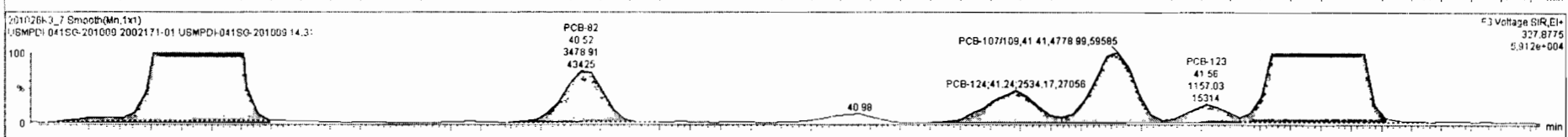
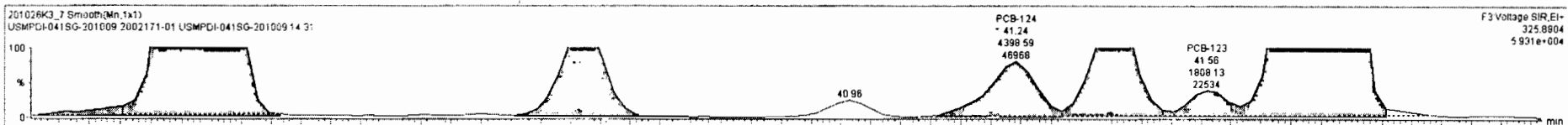
#	Name	Resp	RA	n/y	RRF	wtAvd	Pred RT	RT	Pred R	RRF	RRF Fail	Conc	%Rec	DL	EMPC
223	223 13C-PCB-178	4.21e5	0.47	NO	1.0508	5.012	45.98	45.97	0.923	0.923	NO	2137	107	1.57	
224	224 Total Mono-PCBs				1.1655	5.012	0.00		0.000		NO	26.00		0.815	26.00
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	196.1		5.34	196.1
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	158.8		3.44	158.8
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.81	395.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1731		11.4	1740
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	1.2522		13.9	2567

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc
1	84 PCB-104	32.57	32.58	1.918e2	1.796e2	1.560	1.07	YES	0.91400	0.00000
2	85 PCB-96	33.88	33.85	8.920e2	6.129e2	1.560	1.46	NO	4.2506	4.2506
3	86 PCB-103	34.43	34.41	1.567e3	1.022e3	1.560	1.53	NO	9.0090	9.0090
4	87 PCB-100	34.81	34.79	1.520e3	8.960e2	1.560	1.70	NO	8.2561	8.2561
5	88 PCB-94	35.27	35.27	6.500e2	3.934e2	1.560	1.65	NO	4.5108	4.5108
8	69 PCB-95/98/102	35.74	35.83	5.487e4	3.351e4	1.560	1.64	NO	301.32	301.32



#	Name	Resp	RA	n/y	RF	WAdj	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
223	223 13C-PCB-178	4.21e5	0.47	NO	1.0508	5.012	45.98	45.97	0.923	0.923	NO	2137	107	1.57	
224	224 Total Mono-PCBs				1.1665	5.012	0.00		0.000		NO	26.00		0.915	26.00
225	225 Total Di-PCBs				1.0537	5.012	0.00		0.000		NO	196.1		5.34	196.1
226	226 2nd Function Tri-PCBs				1.0807	5.012	0.00		0.000		NO	156.8		3.44	156.8
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.61	390.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1731		11.4	1740
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2522		13.81	2587

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	84 PCB-104	32.57	32.59	1.919e2	1.796e2	1.560	1.07	YES	0.91400	0.00000
2	85 PCB-96	33.86	33.85	8.920e2	6.129e2	1.560	1.46	NO	4.2506	4.2506
3	86 PCB-103	34.43	34.41	1.567e3	1.022e3	1.560	1.53	NO	8.0090	9.0090
4	87 PCB-100	34.81	34.79	1.520e3	8.960e2	1.560	1.70	NO	8.2581	8.2581
5	88 PCB-94	35.27	35.27	6.530e2	3.334e2	1.560	1.65	NO	4.5108	4.5108
6	89 PCB-95/98/102	35.74	35.83	5.437e4	3.351e4	1.560	1.64	NO	30.32	301.32

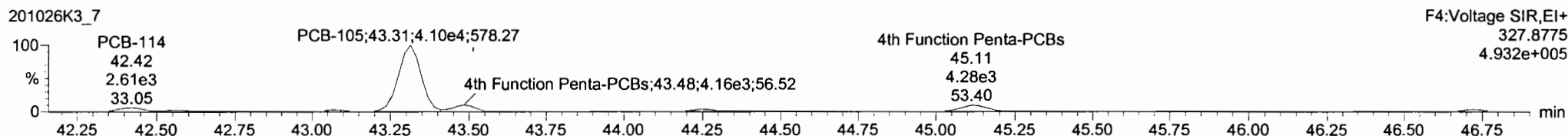
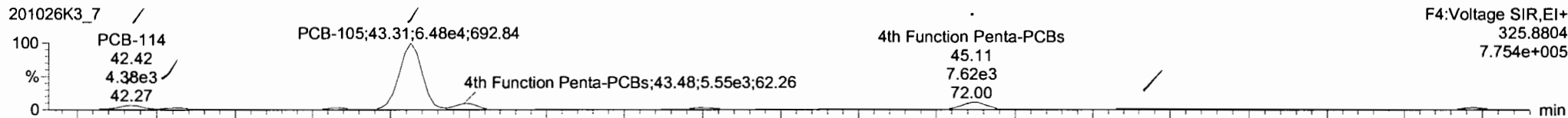


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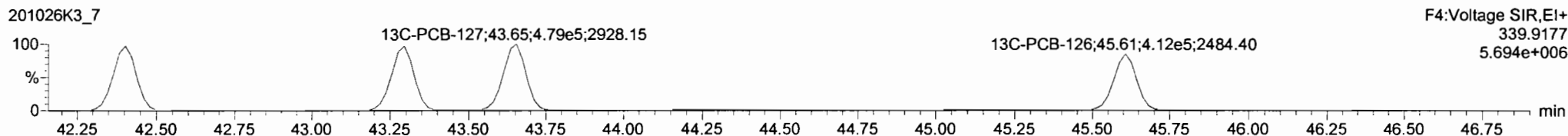
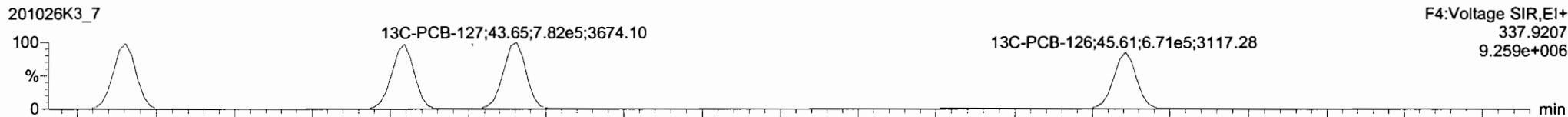
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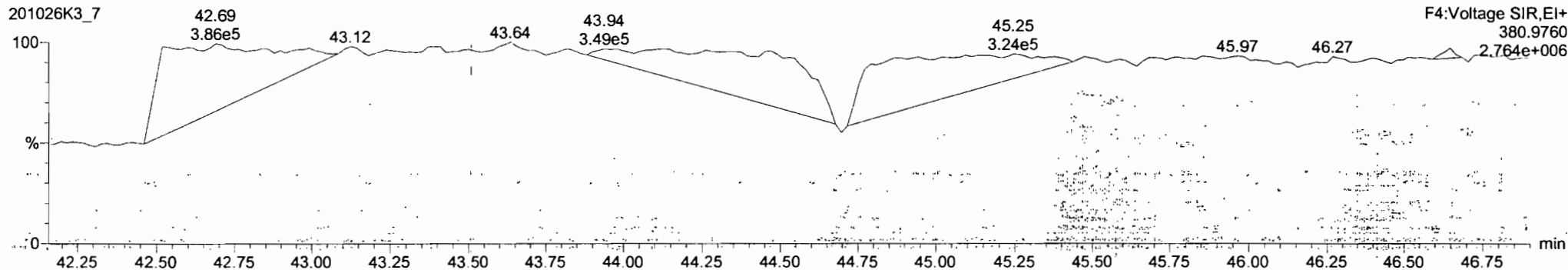
**PCB-114**



**13C-PCB-114**

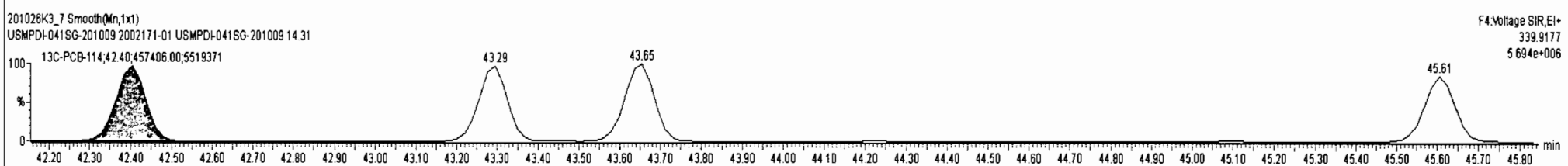
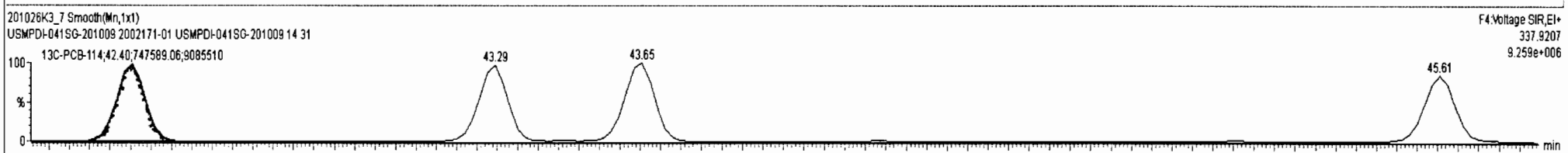
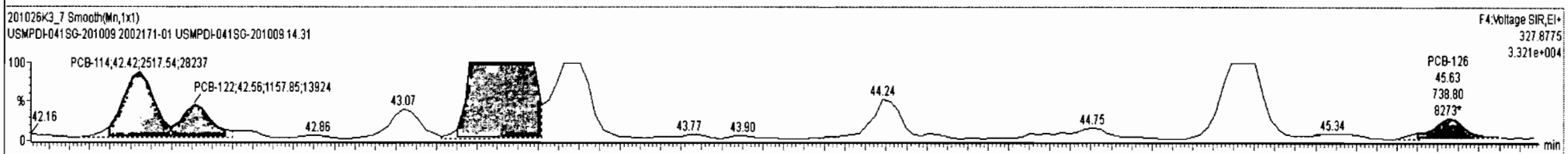
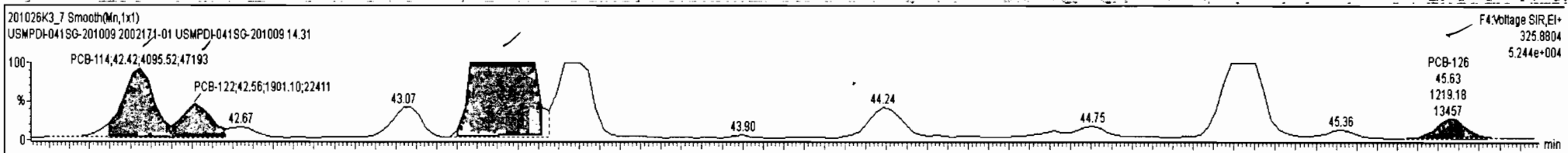


**PFK4a**



#	Name	Resp	RA	nly	RPF	WtWd	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.61	385.5
228	Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1728		11.4	1737
229	3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2565
230	4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	165.2		2.58	165.2
231	3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	717.3		4.63	733.9
232	4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953		11.4	1954
233	Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1458		13.7	1488

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	93 PCB-114	42.43	42.42	4.096e3	2.518e3	1.560	1.63	NO	9.5962	9.5962
2	94 PCB-122	42.57	42.56	1.901e3	1.158e3	1.560	1.64	NO	5.3643	5.3643
3	95 PCB-105	43.31	43.31	6.421e4	4.084e4	1.550	1.57	NO	167.11	167.11
4	97 PCB-126	45.62	45.63	1.219e3	7.707e2	1.560	1.58	NO	3.1282	3.1282



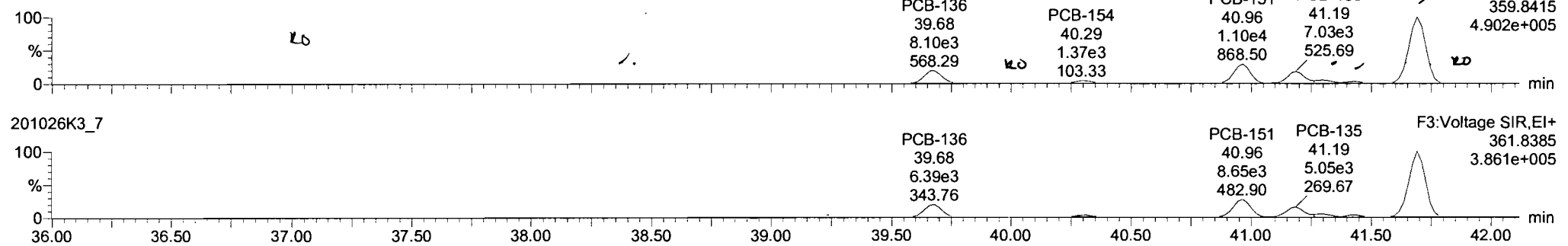
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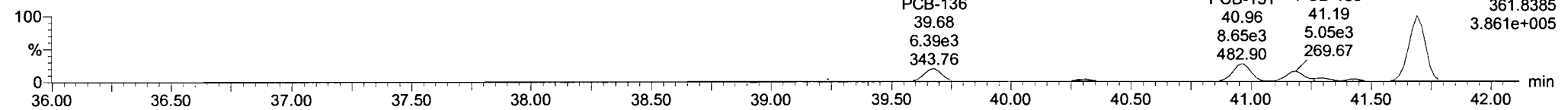
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**PCB-155**

201026K3\_7

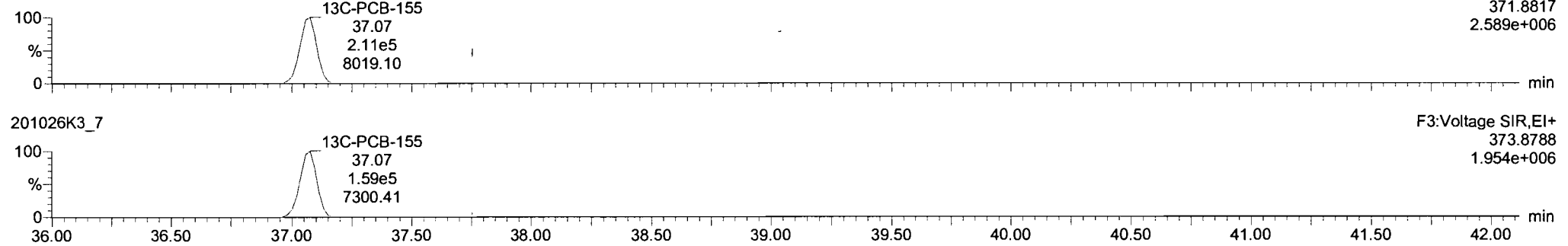


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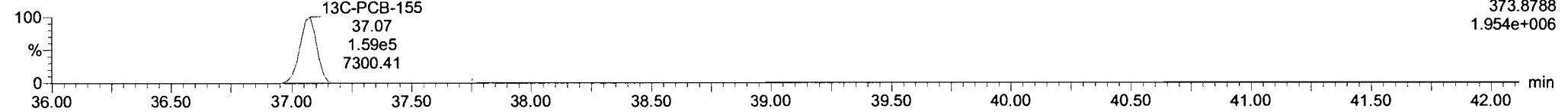


**13C-PCB-155**

201026K3\_7

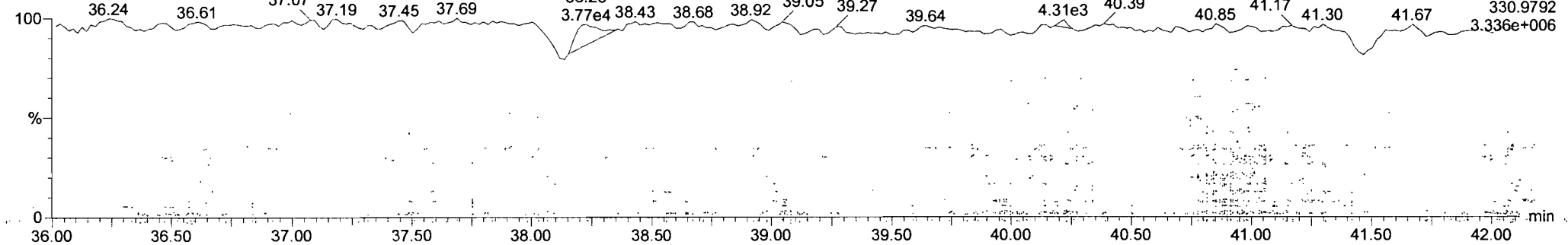


201026K3\_7



**PFK3c**

201026K3\_7

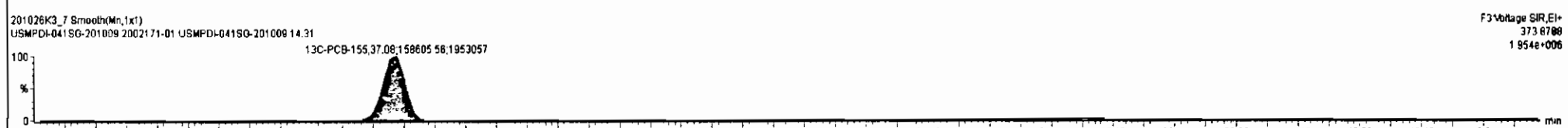
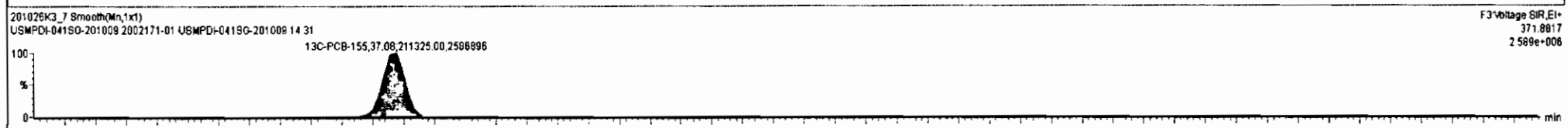
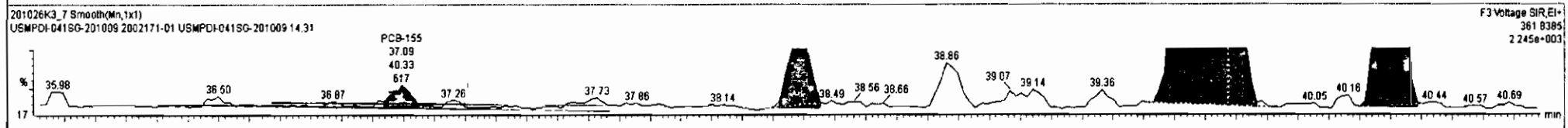
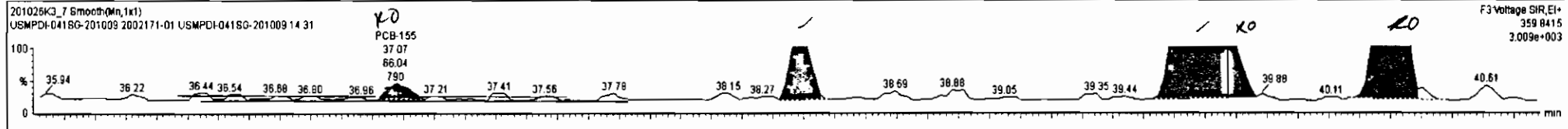




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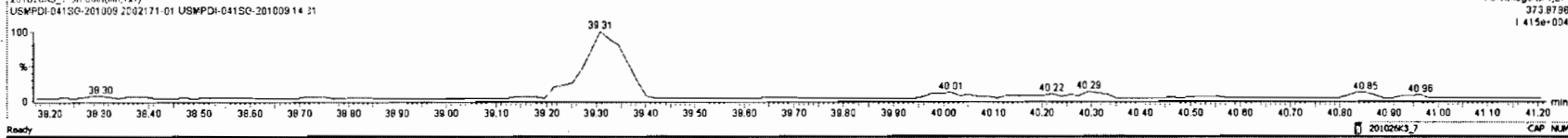
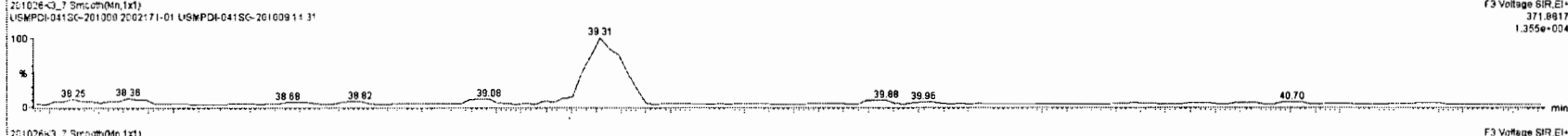
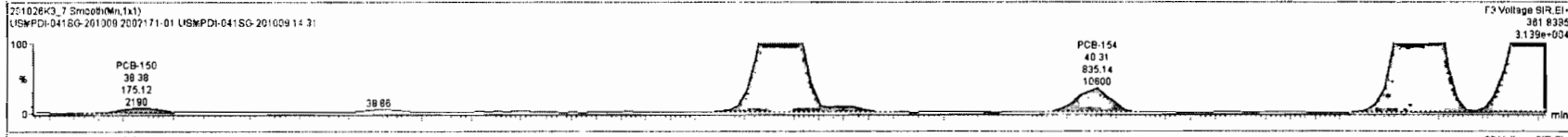
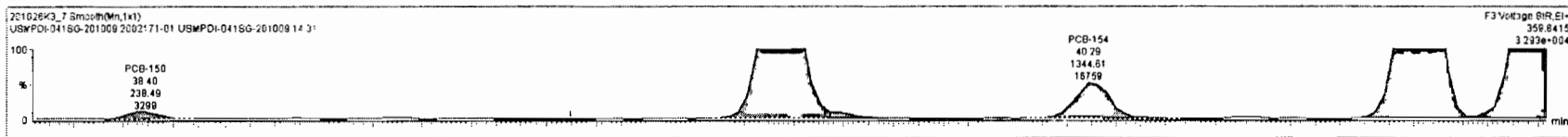
#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fal	Conc.	%Rec	#DL	EMPC
227	227 3rd Function Tri-PCBs				0.9026	5.012	0.00		0.000		NO	390.6		7.81	395.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1728		11.4	1737
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2565
230	230 4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2		2.58	185.2
231	231 3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	719.4		4.83	736.1
232	232 4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953		11.4	1954
233	233 Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1458		13.7	1468

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	98 PCB-155	37.09	37.07	6.604e1	4.033e1	1.240	1.64	YES	0.46689	0.00000
2	99 PCB-150	38.40	38.40	2.385e2	1.751e2	1.240	1.36	NO	2.0592	2.0592
3	102 PCB-136	39.68	39.68	7.952e3	6.387e3	1.240	1.25	NO	75.818	75.818
4	103 PCB-148	39.79	39.77	1.352e2	1.665e2	1.240	0.81	YES	1.5854	0.00000
5	104 PCB-154	40.30	40.29	1.345e3	8.351e2	1.240	1.61	YES	10.980	0.00000
6	105 PCB-151	40.97	40.96	1.101e4	8.664e3	1.240	1.27	NO	134.91	134.91
7	106 PCB-135	41.19	41.19	7.034e3	5.078e3	1.240	1.39	NO	70.842	70.842
8	107 PCB-144	41.30	41.30	1.714e3	1.327e3	1.240	1.29	NO	20.788	20.799
9	108 PCB-147	41.43	41.43	9.349e2	8.818e2	1.240	1.06	NO	11.743	11.743



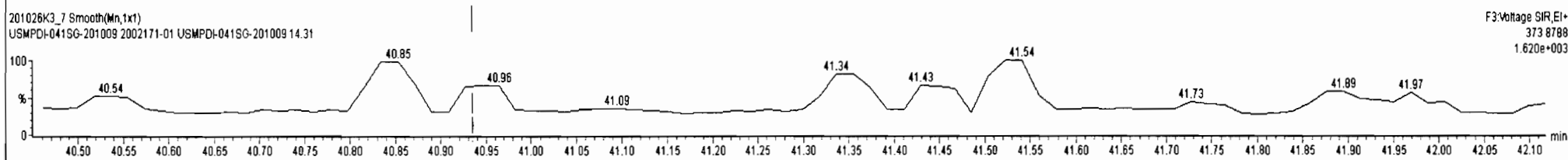
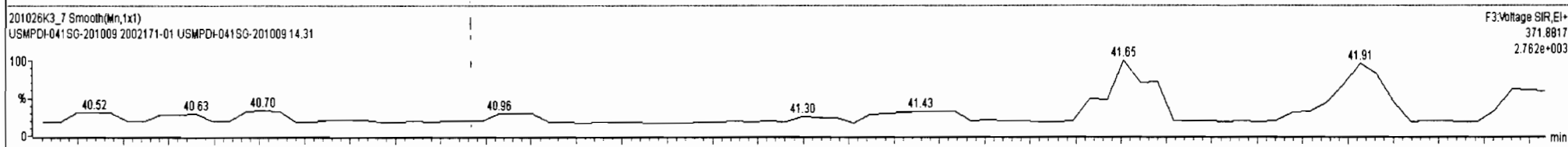
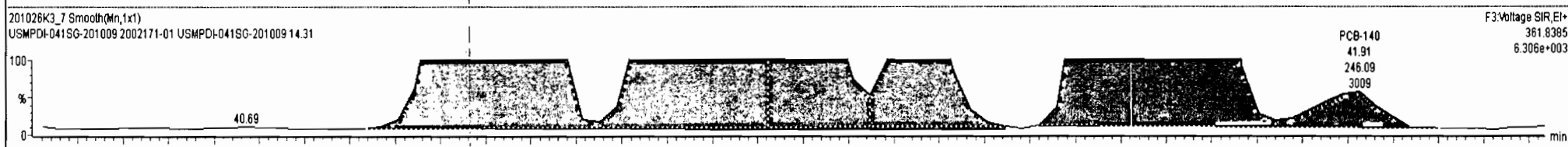
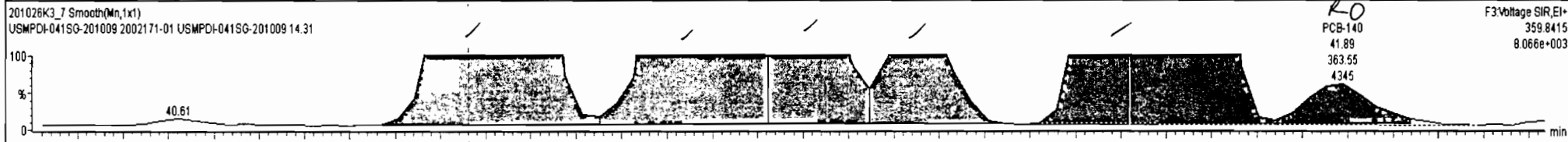
#	Name	Resp	RA	nly	RRF	wt/val	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rac	DL	EMPC
230	4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2	2.58	185.2	
231	3rd Function Hexa-PCBs				0.8606	5.012	0.00		0.000		NO	719.4	4.63	736.1	
232	4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953	11.4	1954	
233	Total Hepta-PCBs				1.9551	5.012	0.00		0.000		NO	1458	13.7	1469	
234	4th Function Octa-PCBs				1.0008	5.012	0.00		0.000		NO	230.1	5.99	245.8	
235	5th Function Octa-PCBs				1.1499	5.012	0.00		0.000		NO	122.2	1.71	122.2	
236	Total Nona-PCBs				0.9523	5.012	0.00		0.000		NO	92.15	1.47	92.15	

#	Name	Pred RT	RT	m/Resp	n2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	98 PCB-155	37.08	37.08	6.604e1	4.033e1	1.240	1.64	YES	0.46680	0.00000
2	99 PCB-150	38.40	38.40	2.385e2	1.751e2	1.240	1.36	NO	2.0592	2.0592
3	102 PCB-138	39.88	39.88	7.962e3	6.387e3	1.240	1.25	NO	75.818	75.818
4	103 PCB-148	38.79	39.77	1.352e2	1.665e2	1.240	0.81	YES	1.5654	0.00000
5	104 PCB-154	40.30	40.29	1.345e3	8.351e2	1.240	1.61	YES	10.980	0.00000
8	105 PCB-151	40.97	40.96	1.101e4	8.664e3	1.240	1.27	NO	134.91	134.91



#	Name	Resp	RA	nV	RFF	wVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1728		11.4	1737
229	3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2565
230	4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2		2.58	185.2
231	3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	719.4		4.63	736.1
232	4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953		11.4	1954
233	Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1458		13.7	1468

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	Ty	EMPC	Conc.
1	98 PCB-155	37.09	37.07	6.604e1	4.033e1	1.240	1.84	YES	0.46889	0.00000
2	99 PCB-150	38.40	38.40	2.385e2	1.751e2	1.240	1.36	NO	2.0592	2.0592
3	102 PCB-136	39.68	39.68	7.962e3	6.387e3	1.240	1.25	NO	75.818	75.818
4	103 PCB-148	39.79	39.77	1.352e2	1.665e2	1.240	0.81	YES	1.5654	0.00000
5	104 PCB-154	40.30	40.29	1.345e3	8.351e2	1.240	1.61	YES	10.980	0.00000
6	105 PCB-151	40.97	40.96	1.101e4	8.664e3	1.240	1.27	NO	134.91	134.91
7	106 PCB-135	41.19	41.19	7.034e3	5.078e3	1.240	1.39	NO	70.842	70.842
8	107 PCB-144	41.30	41.30	1.714e3	1.327e3	1.240	1.29	NO	20.789	20.789
9	108 PCB-147	41.43	41.43	9.349e2	8.818e2	1.240	1.06	NO	11.743	11.743



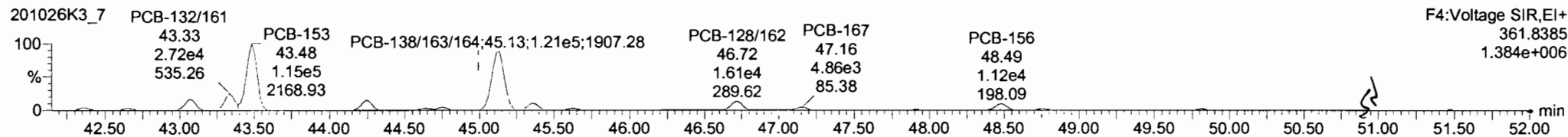
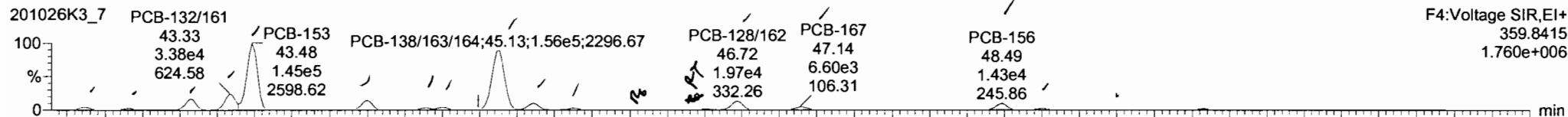
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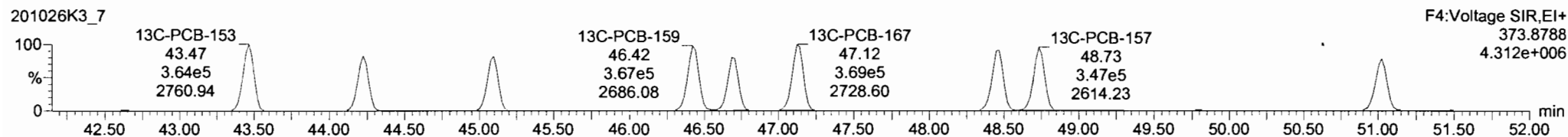
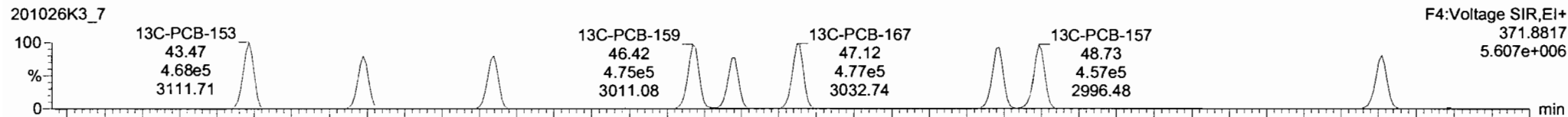
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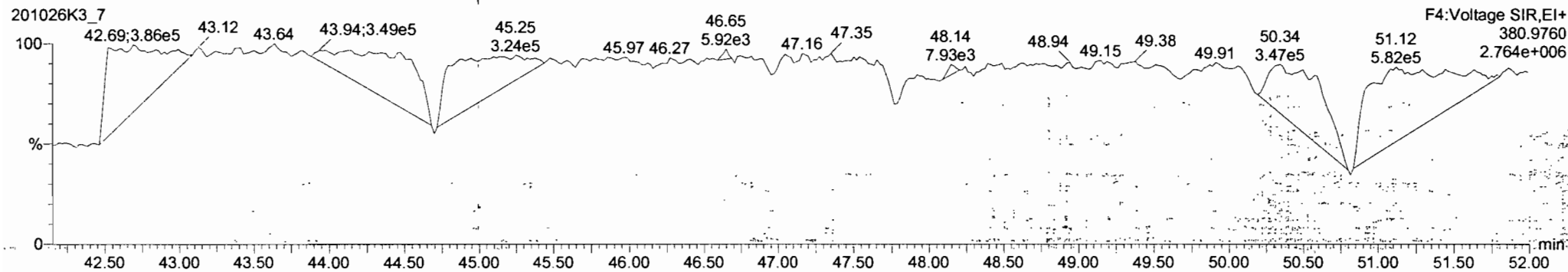
**PCB-134/143**



**13C-PCB-153**

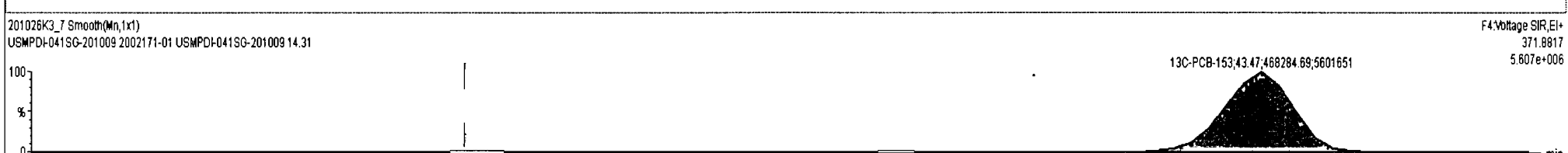
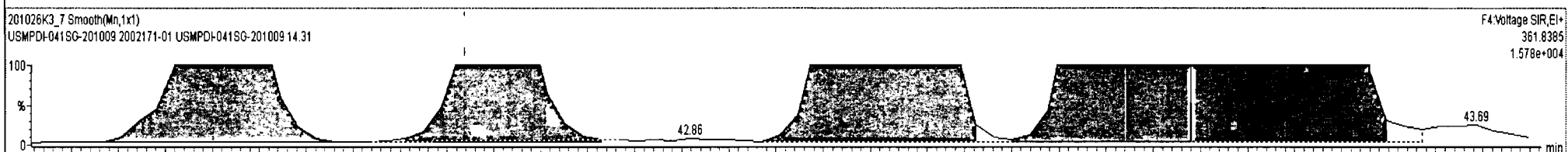
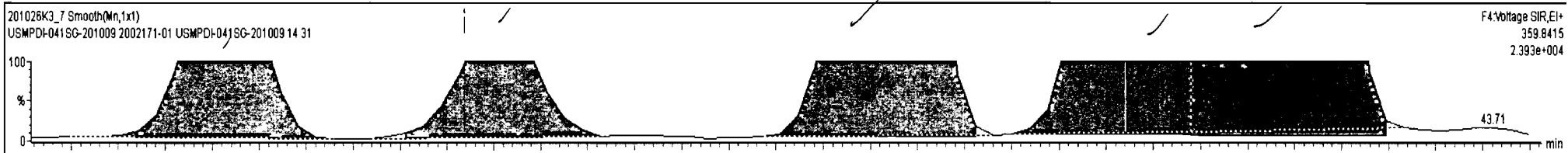


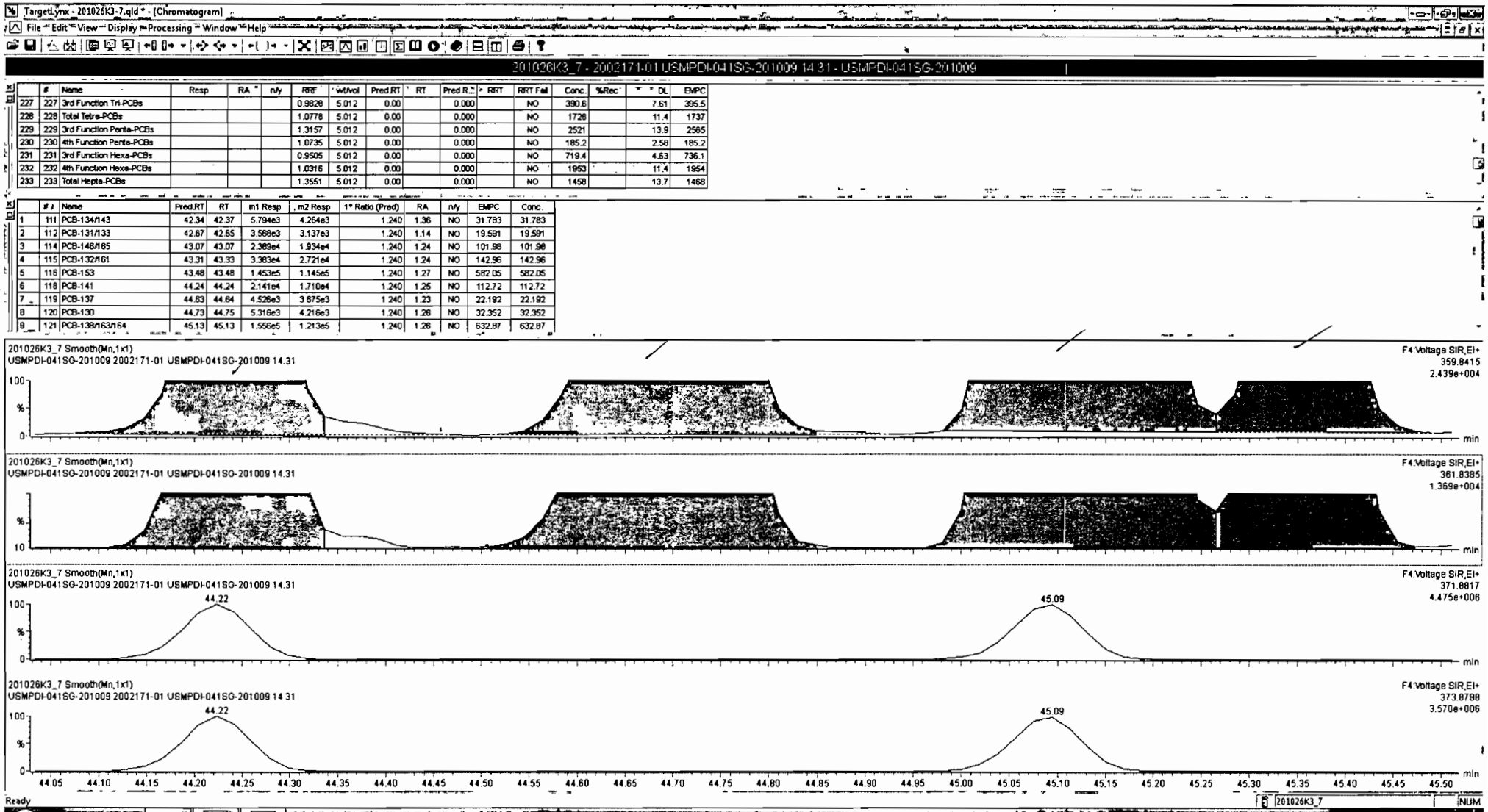
**PFK4b**



#	Name	Resp	RA	nly	RFF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1728		11.4	1737
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2585
230	230 4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2		2.58	185.2
231	231 3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	719.4		4.63	736.1
232	232 4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953		11.4	1954
233	233 Total Hepta-PCBs				1.2551	5.012	0.00		0.000		NO	1458		13.7	1488

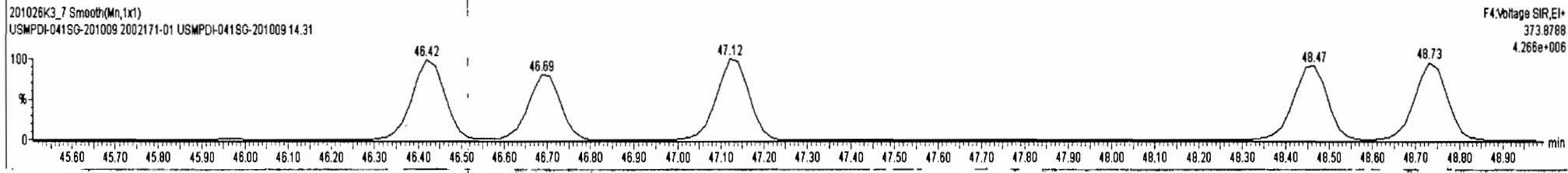
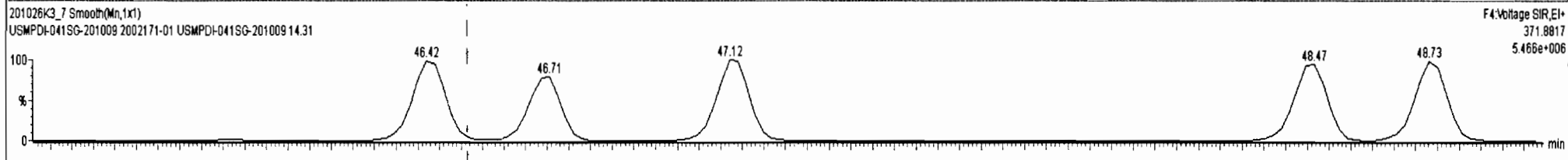
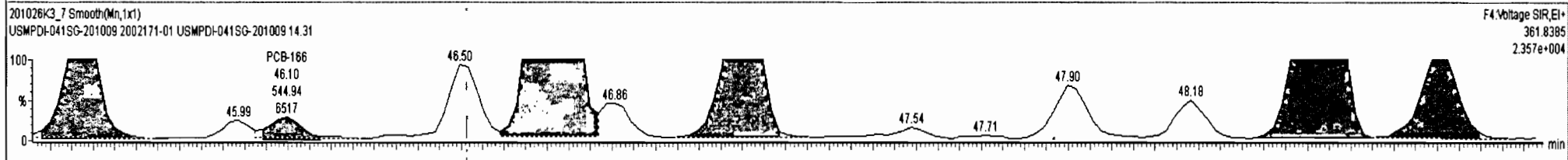
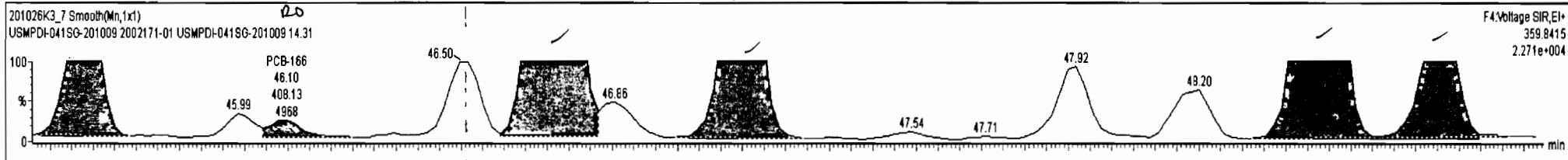
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	111 PCB-134/143	42.34	42.37	5.794e3	4.264e3	1.240	1.36	NO	31.783	31.783
2	112 PCB-131/133	42.67	42.65	3.588e3	3.137e3	1.240	1.14	NO	19.591	19.591
3	114 PCB-146/165	43.07	43.07	2.389e4	1.934e4	1.240	1.24	NO	101.98	101.98
4	115 PCB-132/161	43.31	43.33	3.383e4	2.721e4	1.240	1.24	NO	142.96	142.96
5	116 PCB-153	43.48	43.48	1.453e5	1.145e5	1.240	1.27	NO	582.05	582.05
6	118 PCB-141	44.24	44.24	2.142e4	1.712e4	1.240	1.25	NO	112.82	112.82
7	119 PCB-137	44.63	44.64	4.509e3	3.650e3	1.240	1.24	NO	22.080	22.080
8	120 PCB-130	44.73	44.75	5.257e3	4.205e3	1.240	1.25	NO	32.113	32.113
9	121 PCB-138/163/164	45.13	45.13	1.556e5	1.213e5	1.240	1.28	NO	632.87	632.87





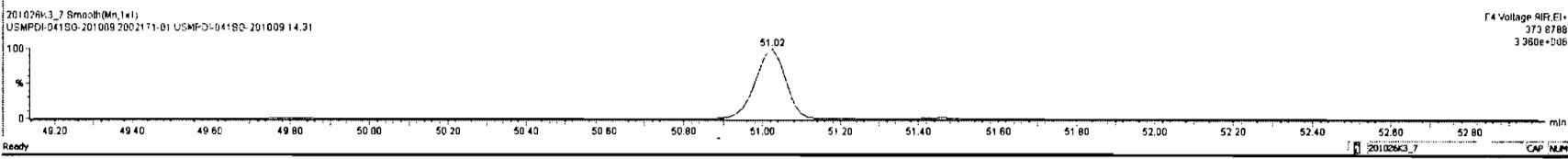
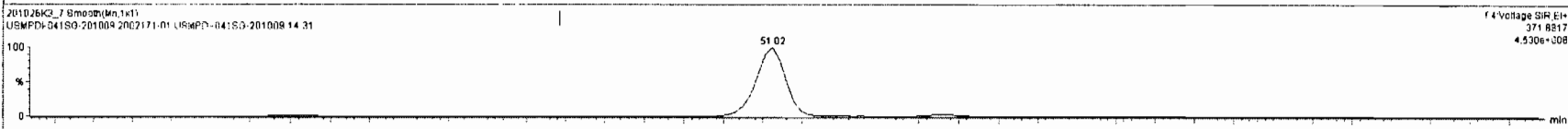
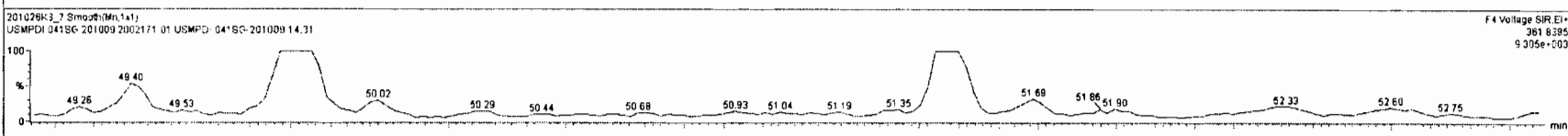
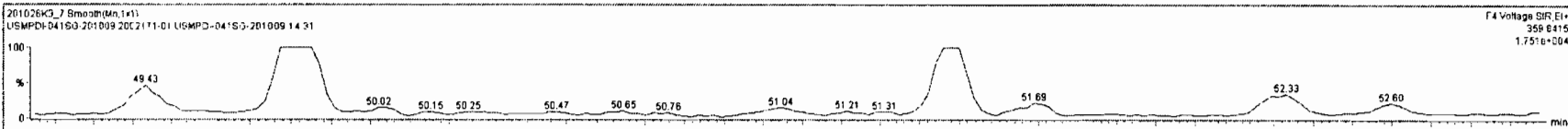
#	Name	Resp	RA	n/y	RRF	WtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	3rd Function Tri-PCBs				0.9628	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1728		11.4	1737
229	3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2565
230	4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2		2.58	185.2
231	3rd Function Hexa-PCBs				0.8505	5.012	0.00		0.000		NO	719.4		4.63	736.1
232	4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953		11.4	1954
233	Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1458		13.7	1488

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.34	42.37	5.794e3	4.264e3	1.240	1.36	NO	31.783	31.783
2	112 PCB-131/133	42.67	42.55	3.568e3	3.137e3	1.240	1.14	NO	19.591	19.591
3	114 PCB-146/155	43.07	43.07	2.369e4	1.934e4	1.240	1.24	NO	101.98	101.98
4	115 PCB-132/161	43.31	43.33	3.383e4	2.721e4	1.240	1.24	NO	142.96	142.96
5	116 PCB-153	43.48	43.48	1.453e5	1.145e5	1.240	1.27	NO	582.05	582.05
6	118 PCB-141	44.24	44.24	2.141e4	1.710e4	1.240	1.25	NO	112.72	112.72
7	119 PCB-137	44.63	44.64	4.526e3	3.675e3	1.240	1.23	NO	22.192	22.192
8	120 PCB-130	44.73	44.75	5.316e3	4.216e3	1.240	1.26	NO	32.352	32.352
9	121 PCB-138/163/164	45.13	45.13	1.556e5	1.213e5	1.240	1.28	NO	632.87	632.87



#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2		2.58	185.2
231	231 3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	719.4		4.83	736.1
232	232 4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1853		11.4	1954
233	233 Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1458		13.7	1469
234	234 4th Function Octa-PCBs				1.0008	5.012	0.00		0.000		NO	230.1		5.89	245.8
235	235 5th Function Octa-PCBs				1.1489	5.012	0.00		0.000		NO	122.2		1.71	122.2
236	236 Total Nona-PCBs				0.9523	5.012	0.00		0.000		NO	92.15		1.47	92.15

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc
11	123 PCB-129	45.63	45.63	3.591e3	3.210e3	1.240	1.12	NO	23.014	23.014
12	124 PCB-166	46.10	46.10	4.081e2	5.449e2	1.240	0.75	YES	1.5280	0.00000
13	126 PCB-128/162	46.73	46.72	1.872e4	1.610e4	1.240	1.23	NO	83.520	93.520
14	127 PCB-167	47.14	47.14	6.588e3	4.784e3	1.240	1.38	NO	24.169	24.169
15	128 PCB-156	48.49	48.49	1.438e4	1.117e4	1.240	1.29	NO	56.571	56.571
16	129 PCB-167	48.75	48.75	3.357e3	2.411e3	1.240	1.39	NO	13.798	13.798



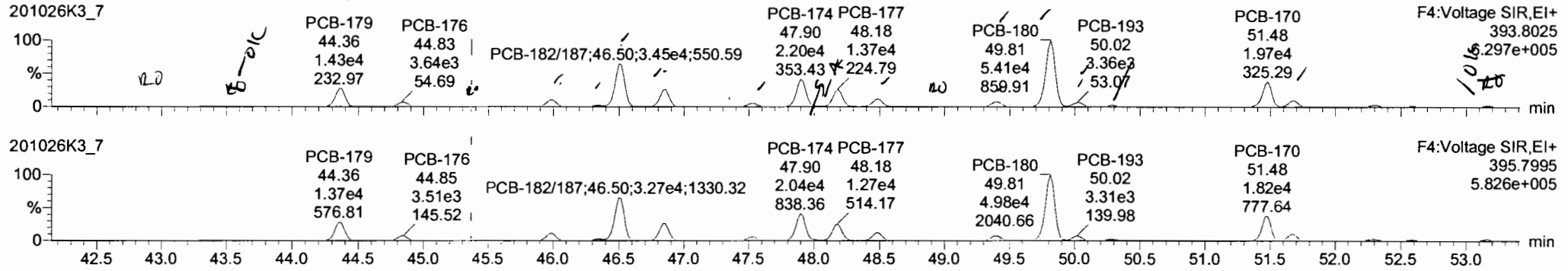


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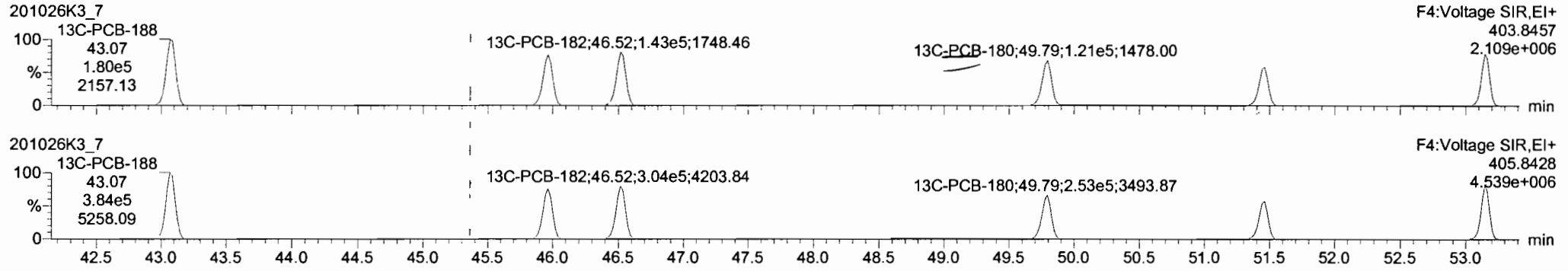
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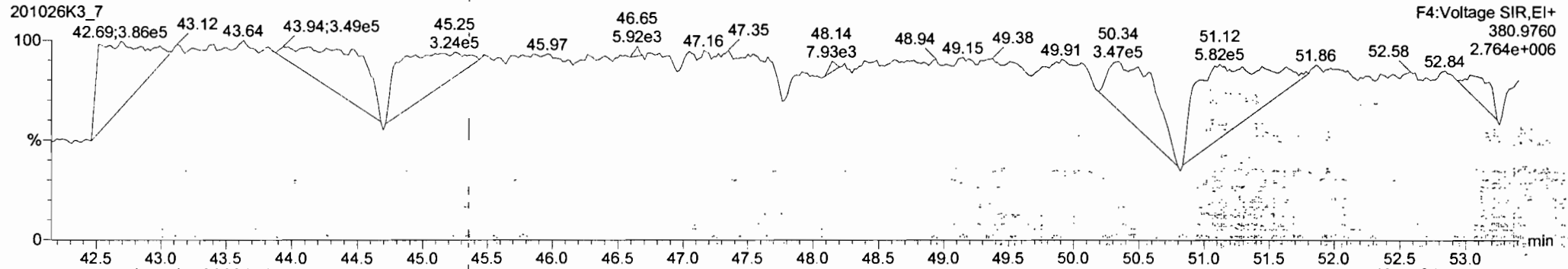
**PCB-188**



**13C-PCB-188**

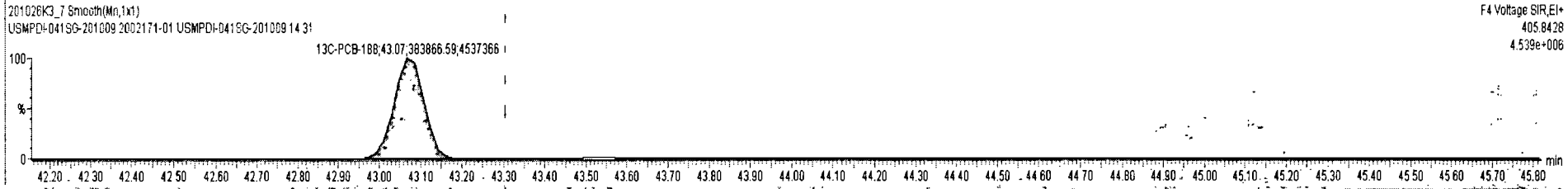
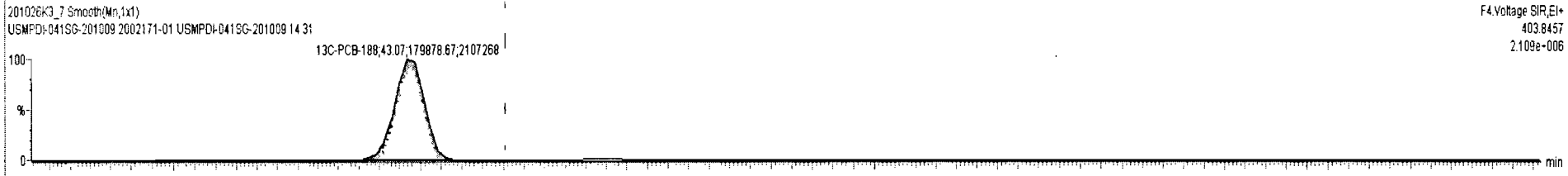
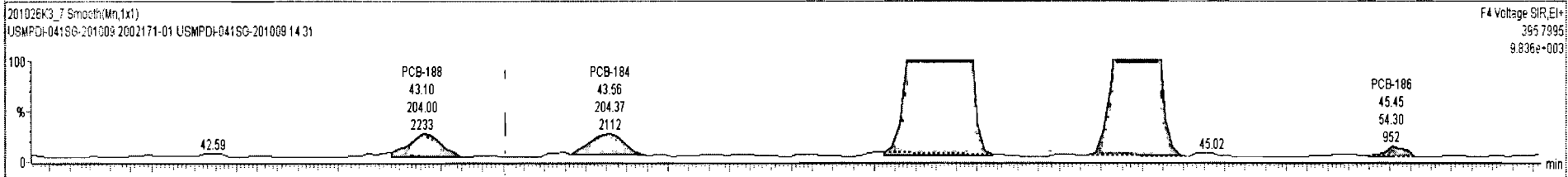
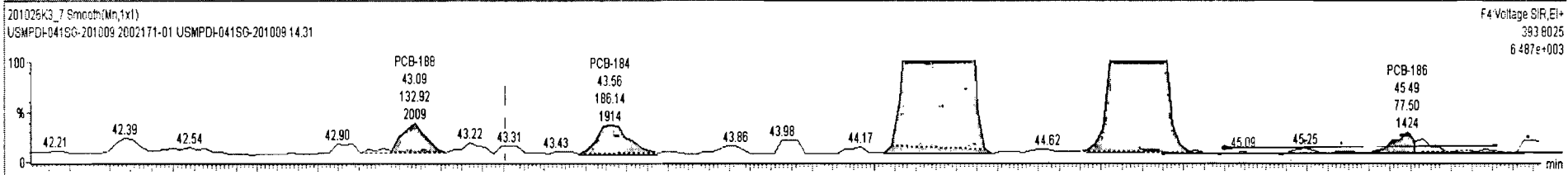


**PFK4c**



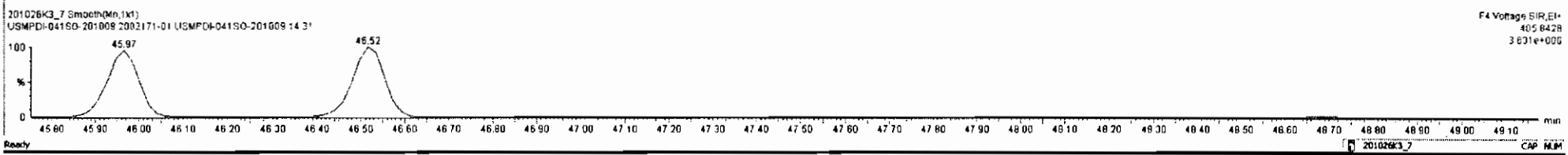
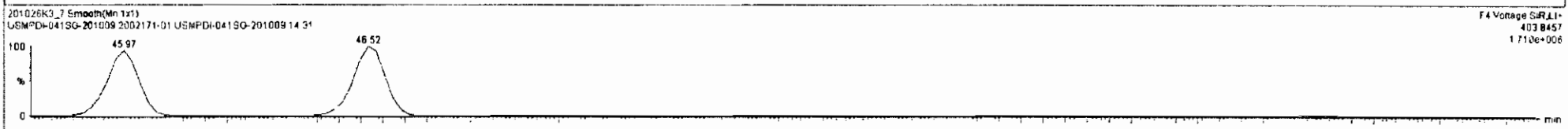
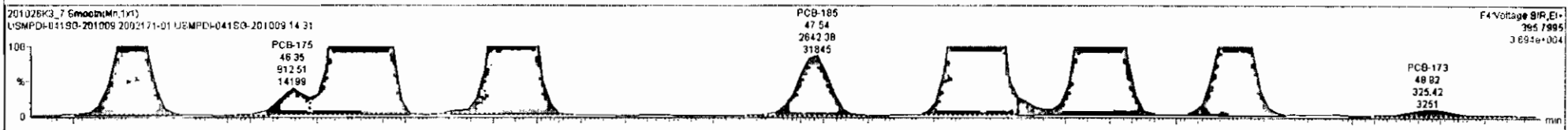
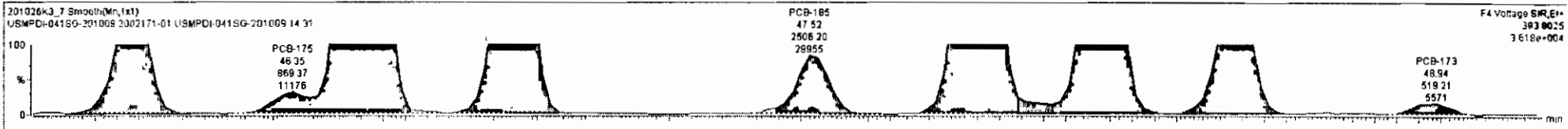
#	Name	Resp	RA	n/y	R/F	wVol	Pred.RT	RT	Pred...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs								0.000		NO	185.2		2.58	185.2
231	231 3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	719.4		4.63	736.1
232	232 4th Function Hexa-PCBs				1.0016	5.012	0.00		0.000		NO	1953		11.4	1954
233	233 Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1467		13.7	1471
234	234 4th Function Octa-PCBs				1.0008	5.012	0.00		0.000		NO	230.1		5.89	245.8
235	235 5th Function Octa-PCBs				1.1499	5.012	0.00		0.000		NO	122.2		1.71	122.2
236	236 Total Nona-PCBs				0.9523	5.012	0.00		0.000		NO	92.15		1.47	92.15

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-188	43.11	43.09	1.329e2	2.040e2	1.050	0.65	YES	0.71223	0.00000
2	132 PCB-184	43.56	43.56	1.861e2	2.044e2	1.050	0.91	NO	1.1222	1.1222
3	133 PCB-179	44.36	44.36	1.438e4	1.376e4	1.050	1.05	NO	76.748	76.748
4	134 PCB-176	44.85	44.83	3.639e3	3.514e3	1.050	1.04	NO	19.349	19.349
5	135 PCB-186	45.47	45.49	7.750e1	5.430e1	1.050	1.43	YES	0.29647	0.00000
6	136 PCB-178	45.99	45.99	5.453e3	5.262e3	1.050	1.03	NO	40.281	40.281



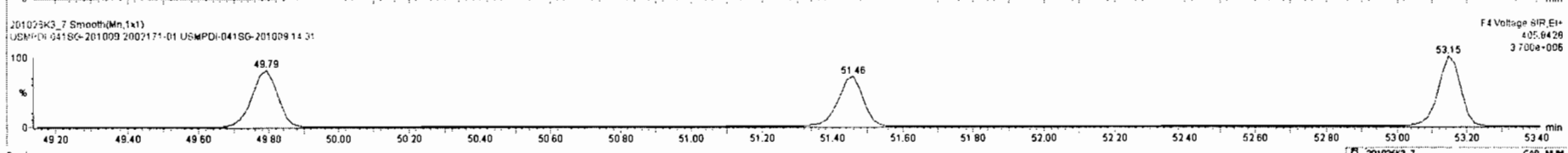
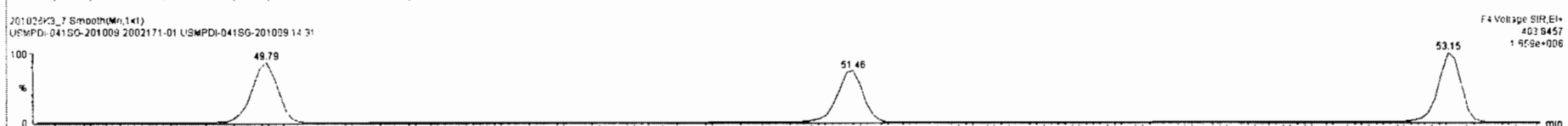
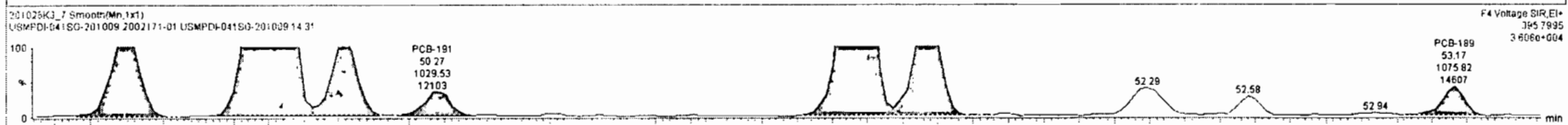
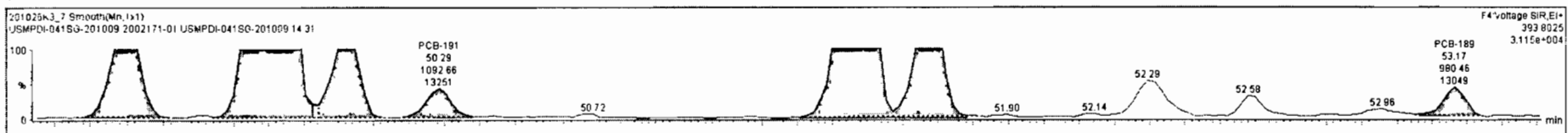
#	Name	Resp	RA	n/y	RRF	wAve	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
230	4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2		2.58	185.2
231	3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	719.4		4.63	736.1
232	4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953		11.4	1954
233	Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1467		13.7	1471
234	4th Function Octa-PCBs				1.0008	5.012	0.00		0.000		NO	230.1		5.85	245.8
235	5th Function Octa-PCBs				1.1499	5.012	0.00		0.000		NO	122.2		1.71	122.2
236	Total Nona-PCBs				0.9523	5.012	0.00		0.000		NO	92.15		1.47	92.15

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-186	43.11	43.09	1.329e2	2.040e2	1.050	0.65	YES	0.71223	0.00000
2	132 PCB-184	43.56	43.56	1.861e2	2.044e2	1.050	0.91	NO	1.1222	1.1222
3	133 PCB-179	44.36	44.36	1.438e4	1.376e4	1.050	1.05	NO	76.748	76.748
4	134 PCB-176	44.85	44.83	3.639e3	3.514e3	1.050	1.04	NO	19.349	19.349
5	135 PCB-186	45.47	45.49	7.750e1	5.430e1	1.050	1.43	YES	0.29647	0.00000
6	136 PCB-178	45.99	45.99	5.453e3	5.282e3	1.050	1.03	NO	40.281	40.281



#	Name	Resp	RA	n/y	RRF	mVal	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2		2.58	185.2
231	231 3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	719.4		4.63	736.1
232	232 4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953		11.4	1954
233	233 Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1467		13.7	1471
234	234 4th Function Octa-PCBs				1.0008	5.012	0.00		0.000		NO	230.1		5.89	245.8
235	235 5th Function Octa-PCBs				1.1499	5.012	0.00		0.000		NO	122.2		1.71	122.2
236	236 Total Nona-PCBs				0.9523	5.012	0.00		0.000		NO	92.15		1.47	92.15

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-186	43.11	43.09	1.329e2	2.040e2	1.050	0.65	YES	0.71223	0.00000
2	132 PCB-184	43.56	43.58	1.861e2	2.044e2	1.050	0.91	NO	1.1222	1.1222
3	133 PCB-179	44.36	44.36	1.436e4	1.375e4	1.050	1.05	NO	76.748	76.748
4	134 PCB-176	44.85	44.83	3.639e3	3.514e3	1.050	1.04	NO	19.349	19.349
5	135 PCB-186	45.47	45.49	7.750e1	5.430e1	1.050	1.43	YES	0.29647	0.00000
6	136 PCB-178	45.99	45.99	5.453e3	5.282e3	1.050	1.03	NO	40.281	40.281

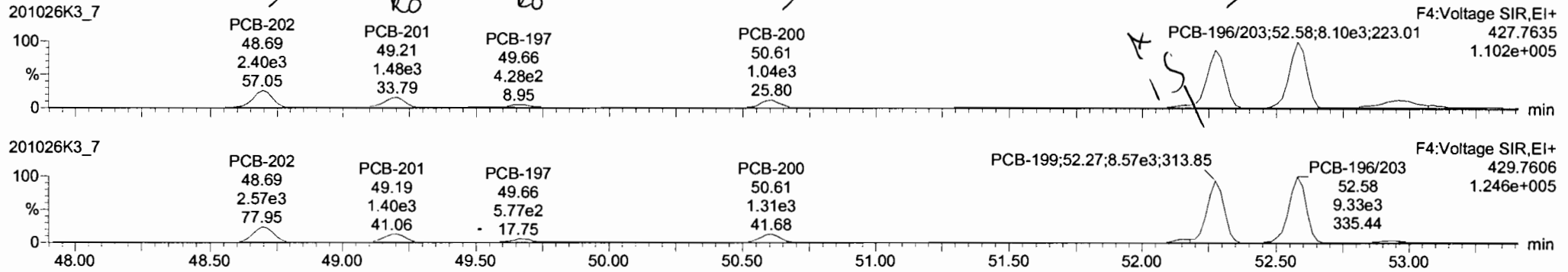


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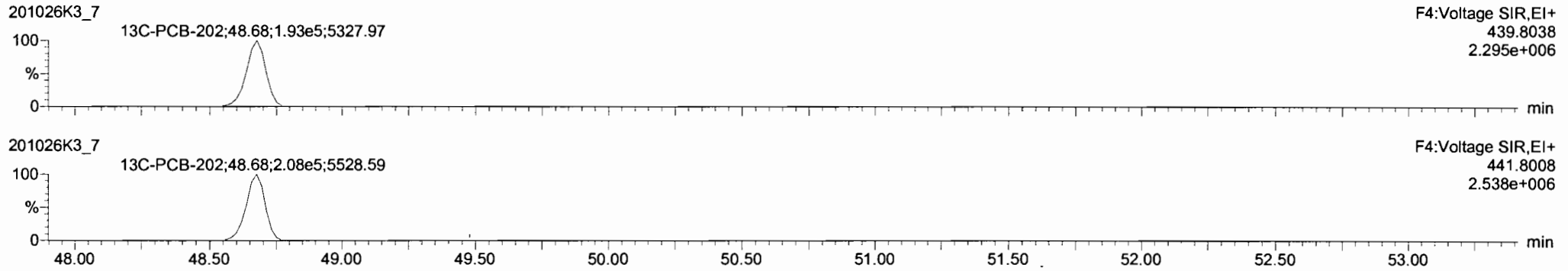
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Name: 201026K3\_7, Date: 27-Oct-2020, Time: 16:58:48, ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

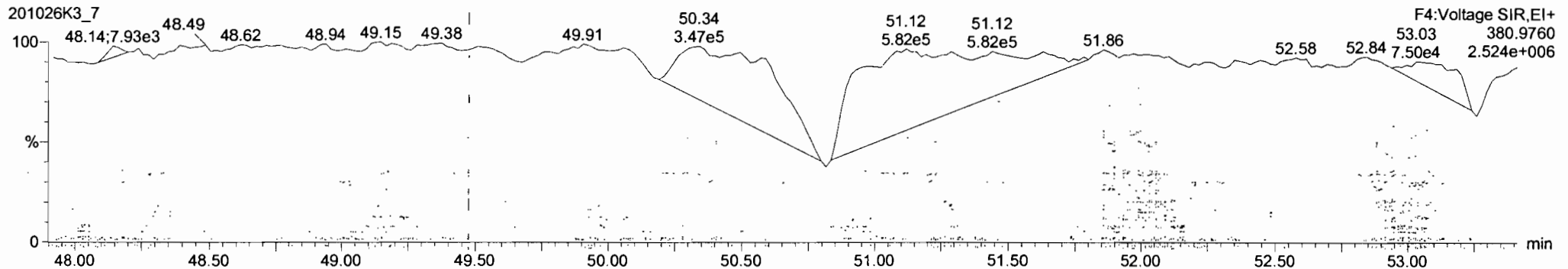
**PCB-202**



**13C-PCB-202**

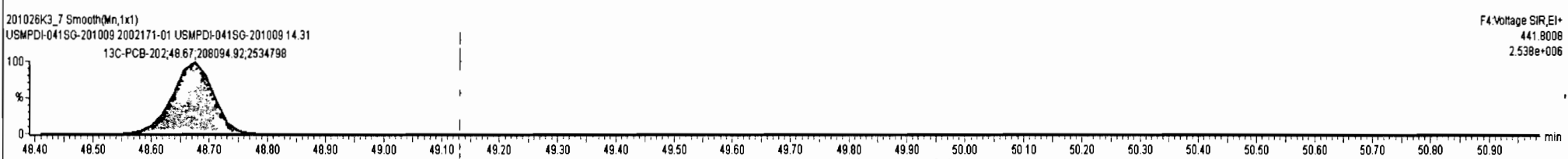
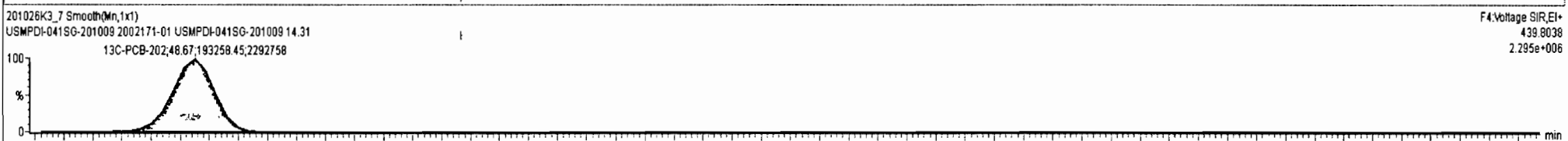
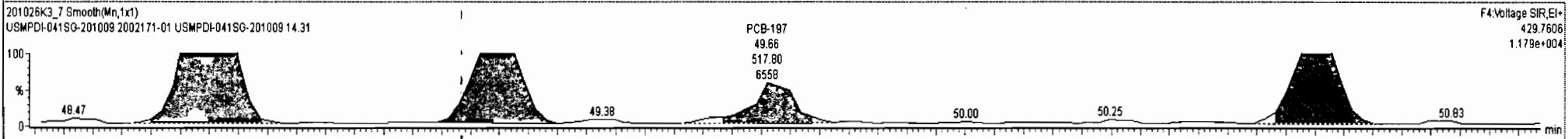
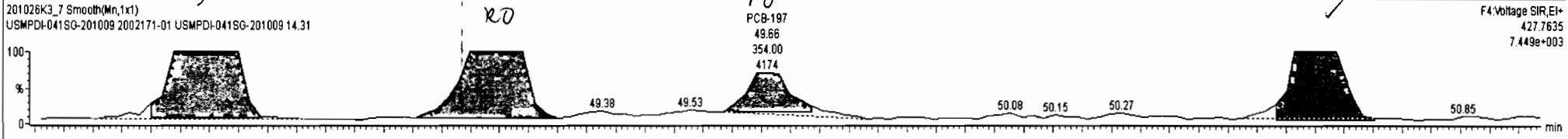


**PFK4d**



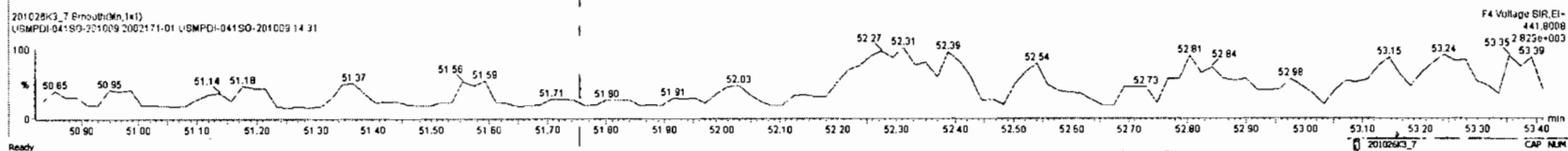
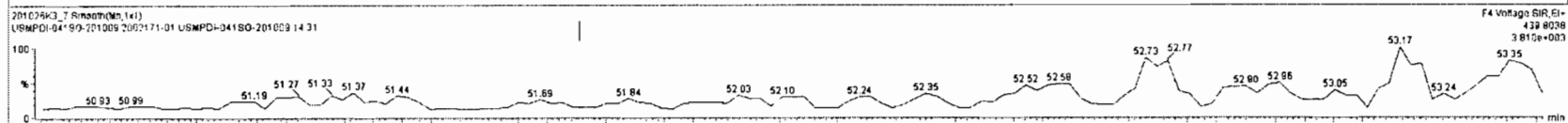
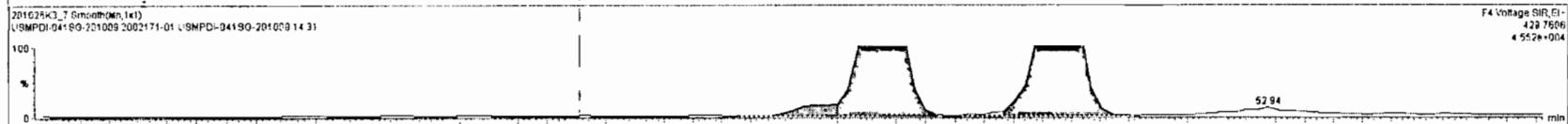
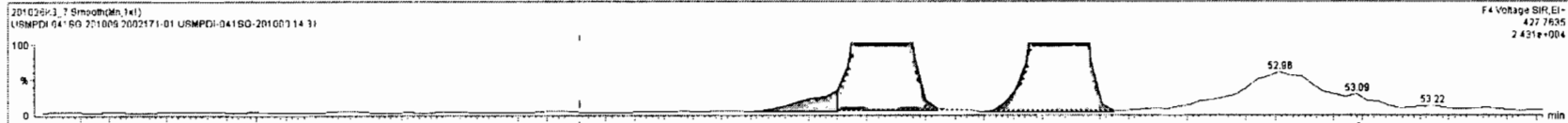
#	Name	Resp	RA	n/y	RPF	WtWt	Pred.RT	RT	Pred.RT	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				0.9828	5.012	0.00		0.000		NO	390.6		7.61	395.5
228	228 Total Tetra-PCBs				1.0778	5.012	0.00		0.000		NO	1728		11.4	1737
229	229 3rd Function Penta-PCBs				1.3157	5.012	0.00		0.000		NO	2521		13.9	2565
230	230 4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2		2.58	185.2
231	231 3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	719.4		4.63	738.1
232	232 4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953		11.4	1954
233	233 Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1458		13.7	1469

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	154 PCB-202	48.71	48.68	2.304e3	2.540e3	0.890	0.91	NO	20.617	20.617
2	155 PCB-201	49.19	49.21	1.483e3	1.396e3	0.890	1.06	YES	12.460	0.00000
3	157 PCB-197	49.65	49.66	3.540e2	5.178e2	0.890	0.68	YES	3.2998	0.00000
4	158 PCB-200	50.59	50.61	1.039e3	1.318e3	0.890	0.79	NO	10.950	10.950
5	160 PCB-199	52.28	52.28	7.319e3	8.271e3	0.890	0.88	NO	95.782	95.782
6	161 PCB-196/203	52.57	52.58	8.056e3	9.283e3	0.890	0.87	NO	102.84	102.84



#	Name	Resp	RA	rv	RIR	stdRef	Pred RT	RT	Pred R	RRT	RRT Filt	Conc	%Rec	DL	EMPC
220	2nd Function Para-PCBs				1.0735	5.012	0.00		0.000	NO		185.2		2.58	185.2
221	3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000	NO		719.4		4.63	730.1
222	4th Function Hexa-PCBs				1.0318	5.012	0.00		0.000	NO		1953		11.4	1954
223	Total Hexa-PCBs				1.3551	5.012	0.00		0.000	NO		1467		13.7	1471
224	4th Function Octa-PCBs				1.8008	5.012	0.00		0.000	NO		230.8		5.88	254.3
225	5th Function Octa-PCBs				1.1499	5.012	0.00		0.000	NO		122.2		1.71	122.2
226	Total Nona-PCBs				0.9523	5.012	0.00		0.000	NO		92.15		1.47	92.15

#	Name	Pred RT	RT	std Ref	std Resp	1st Ratio (Pred)	RA	rv	EMPC	Conc.
1	154 PCB-202	48.71	48.89	2.304e3	2.540e3	0.890	0.91	NO	20.817	20.817
2	155 PCB-201	49.19	49.21	1.483e3	1.396e3	0.890	1.06	YES	12.460	0.00000
3	157 PCB-187	49.85	49.86	3.540e2	5.178e2	0.890	0.68	YES	3.2998	0.00000
4	158 PCB-200	50.59	50.61	1.070e3	1.292e3	0.890	0.80	NO	10.826	10.826
5	159 PCB-198	52.14	52.20	4.406e2	5.442e2	0.890	0.81	NO	6.1674	6.1674
6	160 PCB-199	52.28	52.27	7.309e3	8.503e3	0.890	0.86	NO	97.142	97.142

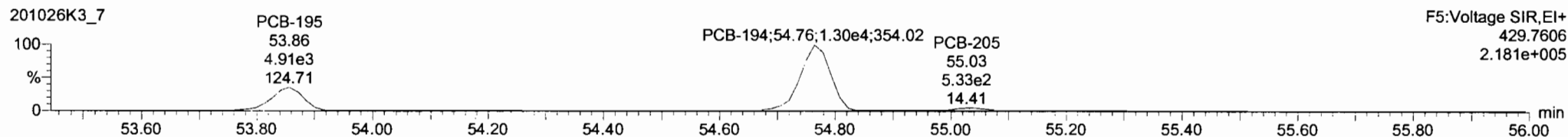
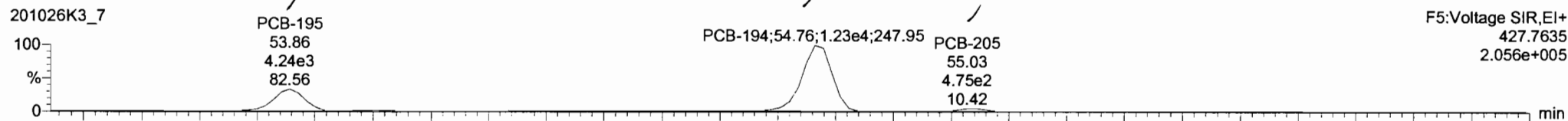


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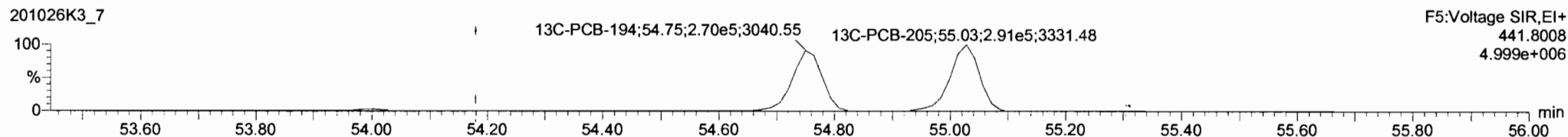
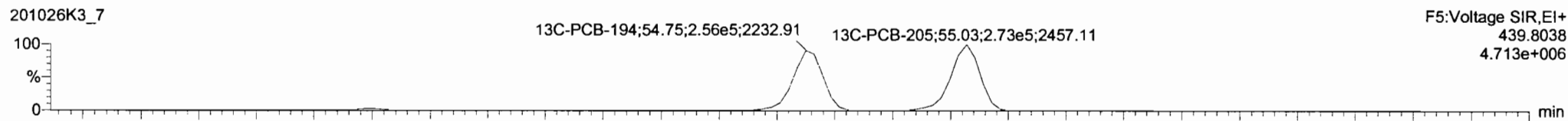
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Name: 201026K3\_7, Date: 27-Oct-2020, Time: 16:58:48, ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

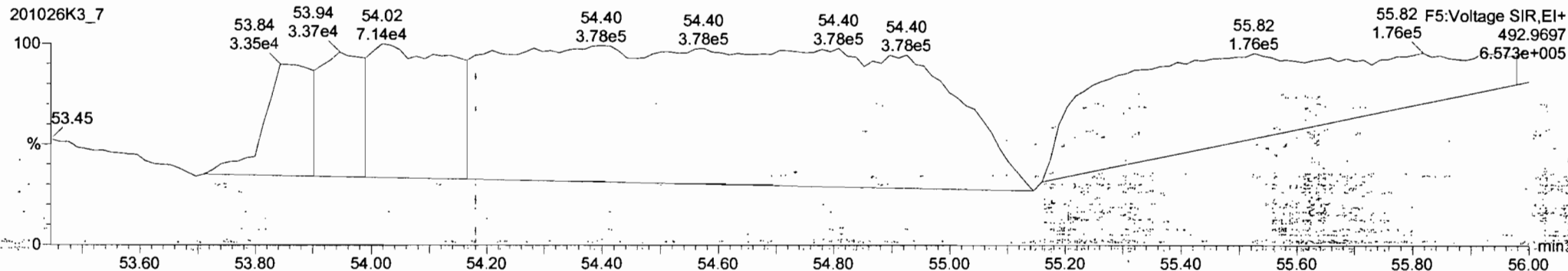
**PCB-195**



**13C-PCB-194**



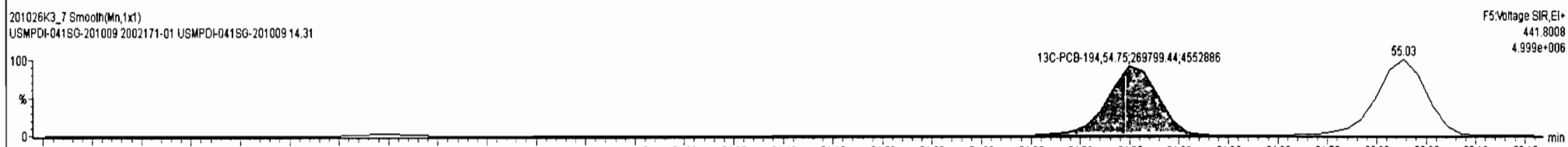
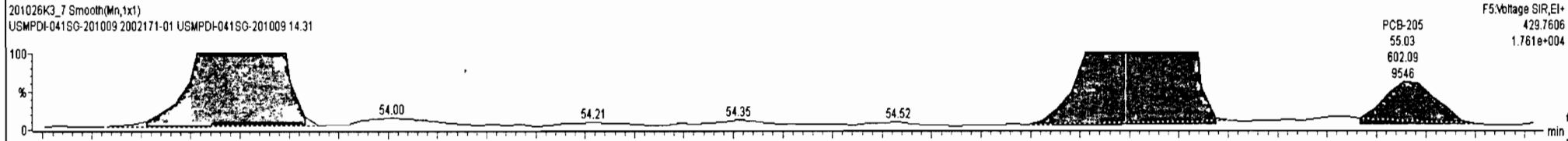
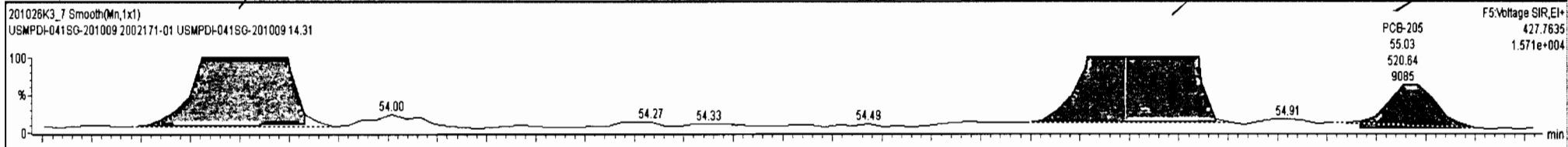
**PFK5a**





#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.RT	RRT	RRT Fail	Conc	%Rec	DL	EMPC
235	235 5th Function Octa-PCBs				1.1499	5.012	0.00		0.000		NO	122.2		1.71	122.2
236	236 Total Nona-PCBs				0.9523	5.012	0.00		0.000		NO	84.62		1.47	91.96
237	237 Deca-CB				0.9664	5.012	0.00		0.000		NO	93.53		0.432	93.53
238	238 Total PCBs														
239	239 Total Mono-Isotopes														
240	240 Total Di-Isotopes														
241	241 2nd Function Tri-Isotopes														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (P76d)	RA	nly	EMPC	Conc
1	162 PCB-195	53.86	53.86	4.174e3	4.866e3	0.890	0.86	NO	32.871	32.871
2	163 PCB-194	54.77	54.76	1.222e4	1.306e4	0.890	0.94	NO	86.039	86.039
3	164 PCB-205	55.04	55.03	5.206e2	6.021e2	0.890	0.86	NO	3.3068	3.3068



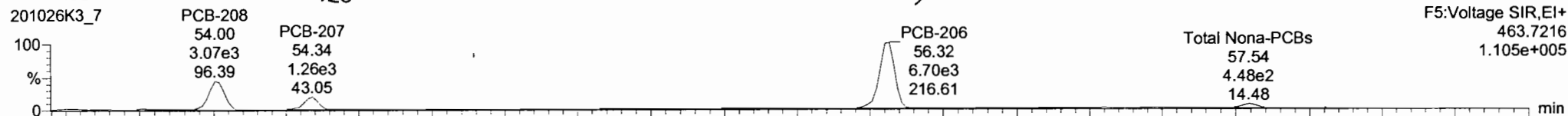
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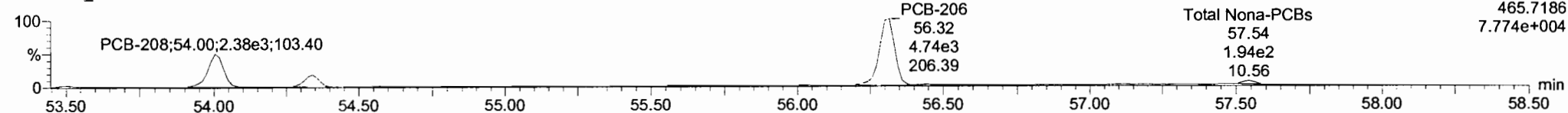
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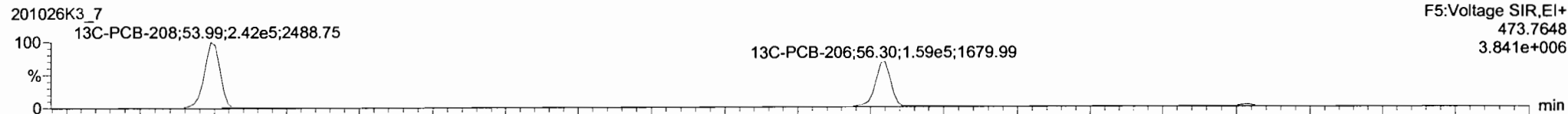
**PCB-208**



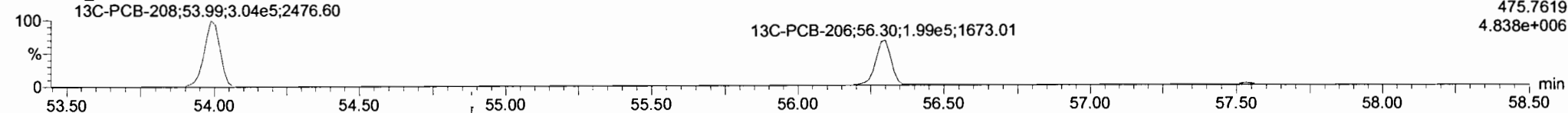
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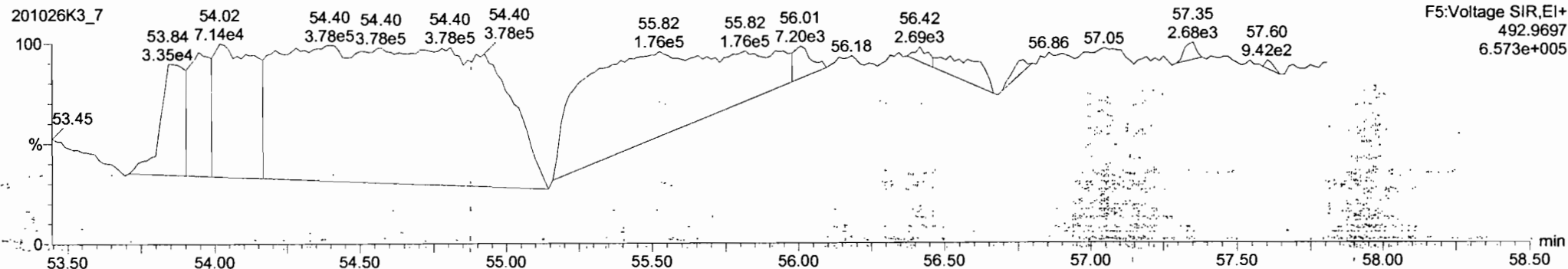
**13C-PCB-208**



201026K3\_7

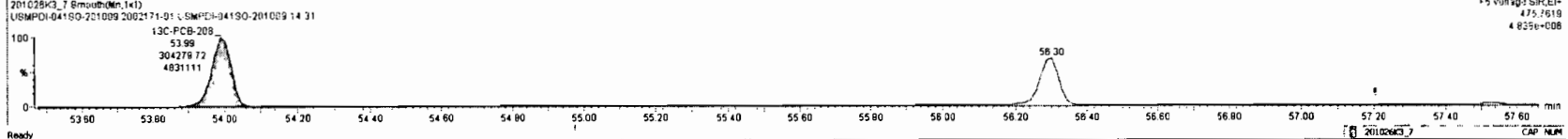
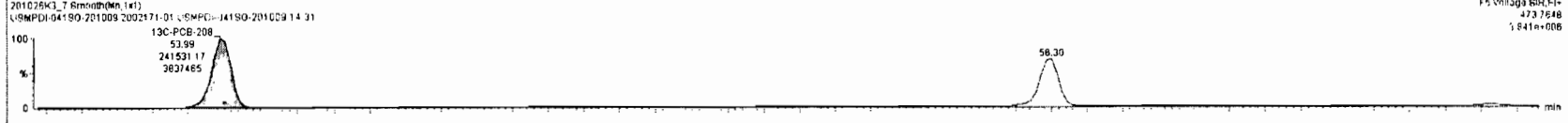
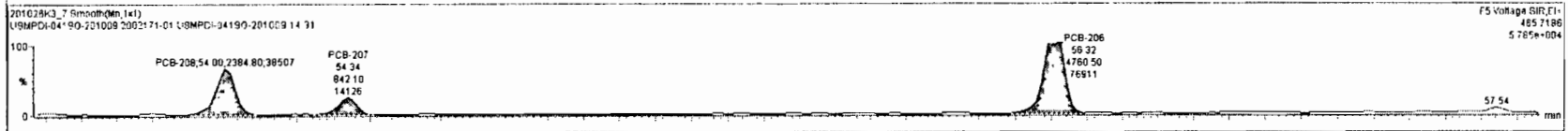
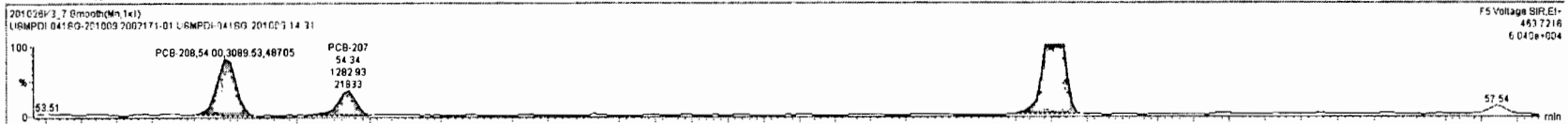


**PFK5**



#	Name	Resp	RA	n/y	RPF	wt/det	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.012	0.00		0.000		NO	185.2	2.58	105.2	
231	231 3rd Function Hexa-PCBs				0.9505	5.012	0.00		0.000		NO	719.4	4.63	736.1	
232	232 4th Function Hexa-PCBs				1.0316	5.012	0.00		0.000		NO	1953	11.4	1954	
233	233 Total Hepta-PCBs				1.3551	5.012	0.00		0.000		NO	1467	13.7	1471	
234	234 4th Function Octa-PCBs				1.0008	5.012	0.00		0.000		NO	238.8	5.89	254.3	
235	235 5th Function Octa-PCBs				1.1499	5.012	0.00		0.000		NO	122.2	1.21	122.2	
236	236 Total Nona-PCBs				0.8523	5.012	0.00		0.000		NO	93.59	1.47	93.59	

#	Name	Pred RT	RT	wt Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	165 PCB-206	54.01	54.00	3.090e3	2.385e3	1.340	1.30	NO	21.446	21.446
2	166 PCB-207	54.33	54.34	1.283e3	8.421e2	1.340	1.52	NO	8.4784	8.4784
3	167 PCB-206	56.32	56.32	6.751e3	4.761e3	1.340	1.42	NO	63.858	63.858

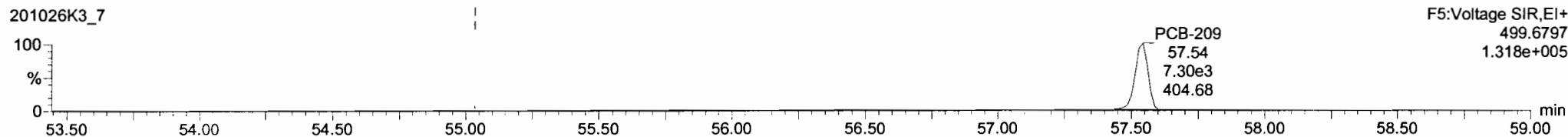
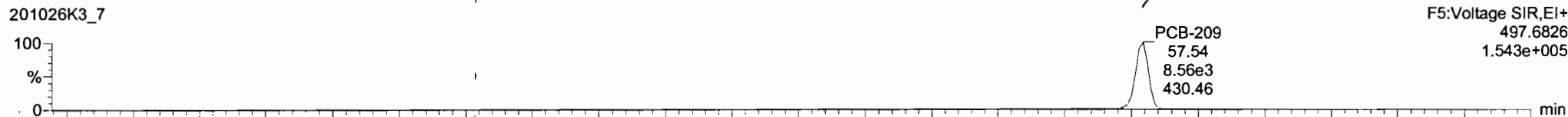


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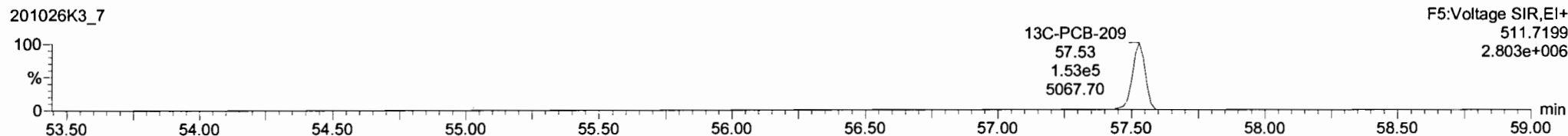
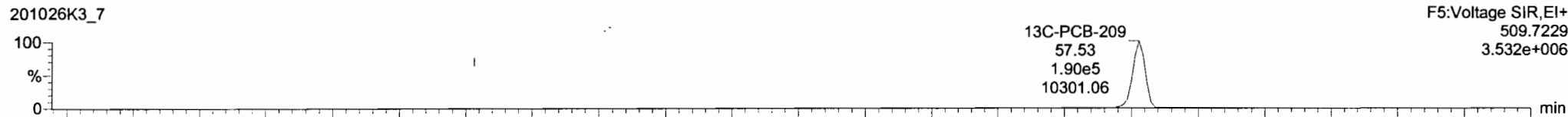
Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_7, Date: 27-Oct-2020, Time: 16:58:48, ID: 2002171-01 USMPDI-041SG-201009 14.31, Description: USMPDI-041SG-201009

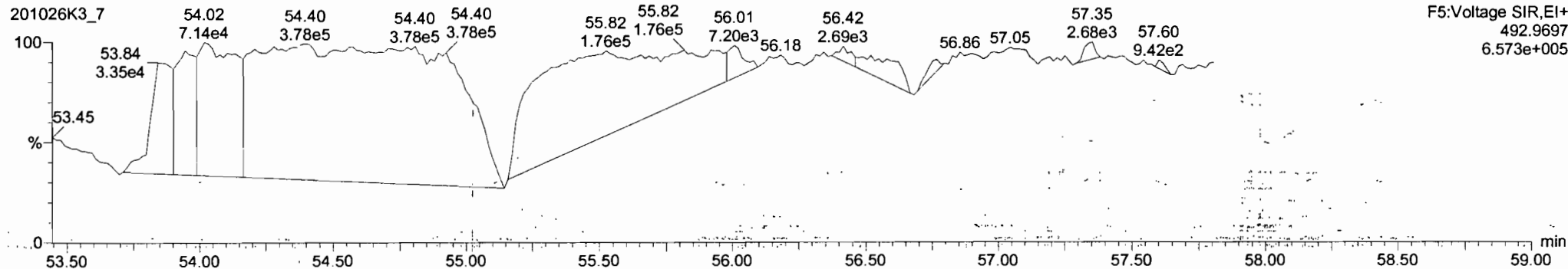
**PCB-209**



**13C-PCB-209**



**PFK5b**



Dataset: U:\VG11.PRO\Results\201026K3\201026K3-8.qld

Last Altered: Tuesday, November 03, 2020 12:37:13 PM Pacific Standard Time  
Printed: Tuesday, November 03, 2020 12:38:08 PM Pacific Standard Time

*Handwritten:* HZ-10 11/3/2020 CT 11/13/2020

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	4.02e3	3.06	NO	1.17	5.025	15.61	15.61	1.001	1.001	NO	5.057		0.223	5.057
2	2 PCB-2	1.49e4	3.28	NO	1.18	5.025	18.03	18.02	0.988	0.988	NO	17.57		0.233	17.57
3	3 PCB-3	4.73e3	3.44	NO	1.15	5.025	18.26	18.26	1.001	1.001	NO	5.751		0.240	5.751
4	4 PCB-4/10	1.56e4	1.46	NO	1.25	5.025	19.68	19.62	1.004	1.001	NO	19.29		0.571	19.29
5	5 PCB-7/9	4.22e3	1.46	NO	0.960	5.025	21.48	21.46	1.003	1.002	NO	4.217		0.460	4.217
6	6 PCB-6	1.01e4	1.72	NO	1.02	5.025	22.13	22.14	1.033	1.033	NO	9.458		0.431	9.458
7	7 PCB-5/8	3.88e4	1.60	NO	0.992	5.025	22.54	22.53	1.052	1.052	NO	37.49		0.445	37.49
8	8 PCB-14			NO	1.02	5.025	23.68		0.951		YES			0.545	
9	9 PCB-11	7.09e4	1.54	NO	1.13	5.025	24.91	24.91	1.001	1.001	NO	70.57		0.492	70.57
10	10 PCB-12/13	6.41e3	1.62	NO	1.03	5.025	25.34	25.27	1.018	1.015	NO	7.008		0.540	7.008
11	11 PCB-15	4.48e4	1.62	NO	1.03	5.025	25.63	25.62	1.030	1.029	NO	48.56		0.535	48.56
12	12 PCB-19	8.77e3	1.12	NO	1.11	5.025	23.87	23.87	1.001	1.001	NO	20.80		0.552	20.80
13	13 PCB-30			NO	1.79	5.025	24.77		1.039		YES			0.341	
14	14 PCB-18	2.76e4	1.03	NO	0.818	5.025	25.53	25.54	0.952	0.952	NO	52.22		0.423	52.22
15	15 PCB-17	1.45e4	1.04	NO	0.758	5.025	25.72	25.71	0.959	0.958	NO	29.55		0.456	29.55
16	16 PCB-24/27	5.03e3	1.21	YES	1.08	5.025	26.32	26.29	0.981	0.980	NO	7.106		0.320	6.643
17	17 PCB-16/32	2.46e4	1.07	NO	0.925	5.025	26.85	26.85	1.001	1.001	NO	41.11		0.374	41.11
18	18 PCB-34	1.55e3	1.26	YES	0.945	5.025	27.66	27.64	0.959	0.958	NO	1.442		0.489	1.301
19	19 PCB-23			NO	0.883	5.025	27.75		0.962		YES			0.470	
20	20 PCB-29	7.07e2	1.11	NO	0.893	5.025	28.01	28.01	0.971	0.971	NO	0.6985		0.465	0.6985
21	21 PCB-26	2.37e4	1.03	NO	0.944	5.025	28.24	28.24	0.979	0.979	NO	22.17		0.440	22.17
22	22 PCB-25	1.48e4	1.04	NO	0.950	5.025	28.39	28.40	0.984	0.985	NO	13.75		0.437	13.75
23	23 PCB-31	1.20e5	1.07	NO	1.04	5.025	28.77	28.76	0.997	0.997	NO	102.3		0.400	102.3
24	24 PCB-28	1.46e5	1.06	NO	1.03	5.025	28.87	28.87	1.001	1.001	NO	126.0		0.405	126.0
25	25 PCB-20/21/33	6.78e4	1.05	NO	0.941	5.025	29.51	29.52	1.023	1.023	NO	63.54		0.441	63.54
26	26 PCB-22	4.29e4	1.05	NO	0.973	5.025	29.95	29.97	1.038	1.039	NO	38.86		0.426	38.86
27	27 PCB-36			NO	1.08	5.025	30.61		0.931		YES			0.402	
28	28 PCB-39			NO	0.988	5.025	31.12		0.947		YES			0.437	
29	29 PCB-38	3.17e3	1.17	NO	1.05	5.025	31.90	31.92	0.970	0.971	NO	2.791		0.411	2.791
30	30 PCB-35	3.33e3	1.14	NO	1.04	5.025	32.45	32.46	0.987	0.988	NO	2.954		0.414	2.954
31	31 PCB-37	5.35e4	1.02	NO	1.01	5.025	32.89	32.89	1.001	1.001	NO	49.05		0.428	49.05
32	32 PCB-54	2.93e3	0.72	NO	1.08	5.025	27.70	27.70	1.001	1.001	NO	4.516		0.249	4.516

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-8.qld

Last Altered: Tuesday, November 03, 2020 12:37:13 PM Pacific Standard Time

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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	7.06e2	0.76	NO	0.880	5.025	28.91	28.92	1.044	1.045	NO	1.335		0.305	1.335
34	34 PCB-53	1.54e4	0.88	NO	0.997	5.025	29.58	29.58	0.944	0.944	NO	28.58		0.317	28.58
35	35 PCB-51	9.58e3	0.78	NO	1.07	5.025	29.93	29.93	0.955	0.955	NO	16.62		0.296	16.62
36	36 PCB-45	8.65e3	0.75	NO	0.858	5.025	30.38	30.38	0.969	0.969	NO	18.61		0.368	18.61
37	37 PCB-46	3.76e3	0.79	NO	0.831	5.025	30.88	30.88	0.985	0.985	NO	8.371		0.380	8.371
38	38 PCB-52/69	1.18e5	0.80	NO	1.17	5.025	31.38	31.36	1.001	1.001	NO	187.4		0.270	187.4
39	39 PCB-73			NO	1.44	5.025	31.49		1.005		YES			0.219	
40	40 PCB-43/49	8.27e4	0.83	NO	1.02	5.025	31.67	31.68	1.010	1.011	NO	150.4		0.311	150.4
41	41 PCB-47	4.94e4	0.78	NO	0.922	5.025	31.90	31.90	1.001	1.001	NO	91.55		0.339	91.55
42	42 PCB-48/75	1.63e4	0.75	NO	1.12	5.025	32.01	32.03	1.004	1.005	NO	24.82		0.279	24.82
43	43 PCB-65			NO	1.28	5.025	32.29		1.013		YES			0.244	
44	44 PCB-62			NO	1.13	5.025	32.38		1.016		YES			0.278	
45	45 PCB-44	6.64e4	0.81	NO	0.824	5.025	32.72	32.72	1.026	1.026	NO	137.7		0.380	137.7
46	46 PCB-42/59	2.97e4	0.83	NO	1.05	5.025	32.94	32.94	1.033	1.033	NO	48.36		0.298	48.36
47	47 PCB-41/64/71/72	8.39e4	0.80	NO	1.19	5.025	33.56	33.54	1.053	1.052	NO	120.7		0.264	120.7
48	48 PCB-68	2.49e3	0.68	NO	1.28	5.025	33.82	33.82	1.061	1.061	NO	3.325		0.245	3.325
49	49 PCB-40	9.92e3	0.83	NO	0.602	5.025	34.04	34.02	1.067	1.067	NO	28.16		0.520	28.16
50	50 PCB-57	9.31e2	0.78	NO	1.16	5.025	34.40	34.41	0.969	0.970	NO	1.114		0.198	1.114
51	51 PCB-67	4.05e3	0.72	NO	1.08	5.025	34.71	34.71	0.978	0.978	NO	5.192		0.212	5.192
52	52 PCB-58	1.13e3	0.86	NO	1.20	5.025	34.84	34.84	0.982	0.982	NO	1.301		0.191	1.301
53	53 PCB-63	5.26e3	0.91	YES	1.07	5.025	34.99	34.99	0.986	0.986	NO	6.821		0.215	6.306
54	54 PCB-74	6.53e4	0.75	NO	1.19	5.025	35.29	35.29	0.994	0.994	NO	76.62		0.194	76.62
55	55 PCB-61/70	1.61e5	0.80	NO	1.05	5.025	35.51	35.51	1.000	1.001	NO	212.2		0.218	212.2
56	56 PCB-76/66	1.45e5	0.81	NO	1.16	5.025	35.70	35.74	1.006	1.007	NO	173.5		0.198	173.5
57	57 PCB-80			NO	1.19	5.025	35.97		1.001		YES			0.194	
58	58 PCB-55	2.41e3	0.77	NO	1.17	5.025	36.30	36.26	1.010	1.009	NO	2.738		0.197	2.738
59	59 PCB-56/60	7.51e4	0.82	NO	1.02	5.025	36.79	36.78	1.024	1.023	NO	98.00		0.226	98.00
60	60 PCB-79	3.82e3	0.81	NO	1.14	5.025	37.92	37.91	1.055	1.055	NO	4.460		0.202	4.460
61	61 PCB-78	7.35e2	1.12	YES	1.14	5.025	38.62	38.54	0.987	0.985	NO	0.9059		0.219	0.7581
62	62 PCB-81	1.20e3	0.70	NO	1.05	5.025	39.16	39.18	1.000	1.001	NO	1.599		0.238	1.599
63	63 PCB-77	1.70e4	0.89	YES	1.14	5.025	39.77	39.77	1.000	1.000	NO	21.56		0.226	20.15
64	64 PCB-104	4.41e2	0.54	YES	1.12	5.025	32.57	32.57	1.001	1.001	NO	1.021		0.407	0.5878
65	65 PCB-96	1.85e3	1.83	YES	1.15	5.025	33.88	33.84	1.041	1.039	NO	4.162		0.305	3.770
66	66 PCB-103	2.92e3	1.70	NO	0.936	5.025	34.43	34.41	1.058	1.057	NO	8.093		0.487	8.093
67	67 PCB-100	2.89e3	1.64	NO	0.954	5.025	34.81	34.79	1.069	1.069	NO	7.878		0.478	7.878
68	68 PCB-94	9.49e2	1.59	NO	0.949	5.025	35.27	35.27	0.985	0.985	NO	3.073		0.572	3.073

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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	8.62e4	1.62	NO	1.20	5.025	35.74	35.83	0.999	1.001	NO	219.9		0.451	219.9
70	70 PCB-93			NO	0.935	5.025	35.89		1.003		YES			0.581	
71	71 PCB-88/91	1.88e4	1.81	YES	1.06	5.025	36.22	36.24	1.012	1.012	NO	54.20		0.510	49.41
72	72 PCB-121			NO	1.71	5.025	36.33		1.015		YES			0.318	
73	73 PCB-84/92	4.56e4	1.65	NO	1.02	5.025	37.17	37.17	0.990	0.990	NO	138.7		0.559	138.7
74	74 PCB-89	1.19e3	1.32	YES	1.11	5.025	37.36	37.35	0.995	0.995	NO	3.319		0.510	3.100
75	75 PCB-90/101	1.32e5	1.65	NO	1.12	5.025	37.55	37.58	1.000	1.001	NO	364.0		0.507	364.0
76	76 PCB-113	4.67e2	1.54	NO	1.51	5.025	37.80	37.80	1.007	1.007	NO	0.9540		0.376	0.9540
77	77 PCB-99	6.46e4	1.58	NO	1.32	5.025	37.90	37.91	1.010	1.010	NO	151.5		0.431	151.5
78	78 PCB-119	6.34e3	1.70	NO	1.81	5.025	38.38	38.38	0.987	0.987	NO	12.03		0.352	12.03
79	79 PCB-108/112	5.19e3	1.77	NO	1.44	5.025	38.53	38.56	0.991	0.992	NO	12.30		0.440	12.30
80	80 PCB-83			NO	1.83	5.025	38.71		0.996		YES			0.347	
81	81 PCB-97	3.13e4	1.68	NO	1.28	5.025	38.90	38.92	1.000	1.001	NO	83.76		0.496	83.76
82	82 PCB-86			NO	1.12	5.025	39.07		1.005		YES			0.569	
83	83 PCB-87/117/125	4.43e4	1.53	NO	1.56	5.025	39.19	39.20	1.008	1.008	NO	97.33		0.408	97.33
84	84 PCB-111/115	2.15e3	1.51	NO	1.91	5.025	39.35	39.38	1.012	1.013	NO	3.860		0.333	3.860
85	85 PCB-85/116	2.08e4	1.65	NO	1.41	5.025	39.47	39.47	1.015	1.015	NO	50.45		0.451	50.45
86	86 PCB-120			NO	2.01	5.025	39.74		1.022		YES			0.317	
87	87 PCB-110	1.65e5	1.61	NO	1.74	5.025	39.89	39.88	1.026	1.026	NO	323.9		0.365	323.9
88	88 PCB-82	1.05e4	1.69	NO	0.781	5.025	40.52	40.52	0.975	0.975	NO	36.16		0.643	36.16
89	89 PCB-124	6.44e3	1.72	NO	1.40	5.025	41.23	41.24	0.993	0.993	NO	12.37		0.359	12.37
90	90 PCB-107/109	1.19e4	1.71	NO	1.34	5.025	41.37	41.41	0.996	0.997	NO	23.85		0.374	23.85
91	91 PCB-123	2.62e3	1.45	NO	1.20	5.025	41.56	41.56	1.000	1.000	NO	5.878		0.419	5.878
92	92 PCB-106/118	1.42e5	1.61	NO	1.22	5.025	41.76	41.75	1.001	1.000	NO	300.8		0.394	300.8
93	93 PCB-114	4.67e3	1.64	NO	1.14	5.025	42.43	42.42	1.000	1.000	NO	5.308		0.535	5.308
94	94 PCB-122	2.90e3	1.26	YES	0.944	5.025	42.57	42.58	1.004	1.004	NO	3.976		0.647	3.639
95	95 PCB-105	9.46e4	1.61	NO	1.05	5.025	43.31	43.31	1.000	1.000	NO	119.4		0.591	119.4
96	96 PCB-127			NO	1.06	5.025	43.67		1.000		YES			0.550	
97	97 PCB-126	1.88e3	1.35	NO	1.17	5.025	45.62	45.63	1.000	1.000	NO	2.299		0.592	2.299
98	98 PCB-155	1.25e2	1.06	NO	1.04	5.025	37.09	37.07	1.000	1.000	NO	0.4935		0.280	0.4935
99	99 PCB-150	4.64e2	0.80	YES	1.08	5.025	38.40	38.38	1.036	1.035	NO	1.706		0.270	1.420
100	1... PCB-152	2.25e2	1.33	NO	1.19	5.025	38.88	38.88	1.049	1.049	NO	0.7821		0.247	0.7821
101	1... PCB-145			NO	1.19	5.025	39.35		1.061		YES			0.246	
102	1... PCB-136	1.52e4	1.35	NO	1.02	5.025	39.68	39.68	1.070	1.070	NO	61.35		0.287	61.35
103	1... PCB-148	3.55e2	2.37	YES	0.842	5.025	39.79	39.77	1.073	1.073	NO	1.740		0.348	1.158
104	1... PCB-154	2.32e3	1.26	NO	0.919	5.025	40.30	40.29	1.087	1.087	NO	10.41		0.318	10.41

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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	2.16e4	1.23	NO	0.787	5.025	40.97	40.96	1.105	1.105	NO	113.1		0.372	113.1
106	1... PCB-135	1.18e4	1.28	NO	0.922	5.025	41.19	41.19	1.111	1.111	NO	52.64		0.317	52.64
107	1... PCB-144	3.68e3	0.97	YES	0.789	5.025	41.30	41.30	1.114	1.114	NO	19.24		0.371	17.07
108	1... PCB-147	2.29e3	1.31	NO	0.834	5.025	41.43	41.43	1.117	1.117	NO	11.30		0.351	11.30
109	1... PCB-139/149	7.15e4	1.30	NO	0.948	5.025	41.72	41.69	1.125	1.124	NO	310.9		0.309	310.9
110	1... PCB-140	5.29e2	1.91	YES	0.794	5.025	41.90	41.89	1.130	1.130	NO	2.745		0.389	2.112
111	1... PCB-134/143	9.33e3	1.23	NO	0.759	5.025	42.34	42.37	0.974	0.975	NO	23.24		0.587	23.24
112	1... PCB-131/133	6.55e3	1.39	NO	0.821	5.025	42.67	42.65	0.982	0.981	NO	15.09		0.543	15.09
113	1... PCB-142			NO	0.754	5.025	42.83		0.985		YES			0.591	
114	1... PCB-146/165	4.63e4	1.21	NO	1.02	5.025	43.07	43.07	0.991	0.991	NO	86.05		0.438	86.05
115	1... PCB-132/161	5.96e4	1.24	NO	1.02	5.025	43.31	43.33	0.997	0.997	NO	110.1		0.435	110.1
116	1... PCB-153	2.67e5	1.30	NO	1.07	5.025	43.48	43.48	1.000	1.000	NO	472.4		0.416	472.4
117	1... PCB-168	5.72e2	1.04	YES	1.08	5.025	43.71	43.71	1.006	1.006	NO	1.804		0.414	0.9233
118	1... PCB-141	3.82e4	1.29	NO	1.03	5.025	44.24	44.24	1.000	1.000	NO	87.00		0.541	87.00
119	1... PCB-137	7.94e3	1.28	NO	1.11	5.025	44.63	44.64	1.009	1.009	NO	16.73		0.501	16.73
120	1... PCB-130	9.54e3	1.31	NO	0.885	5.025	44.73	44.75	1.012	1.012	NO	25.22		0.628	25.22
121	1... PCB-138/163/164	2.76e5	1.29	NO	1.28	5.025	45.13	45.13	1.001	1.001	NO	486.5		0.412	486.5
122	1... PCB-158/160	2.54e4	1.24	NO	1.24	5.025	45.40	45.36	1.007	1.006	NO	46.25		0.427	46.25
123	1... PCB-129	5.86e3	1.23	NO	0.867	5.025	45.63	45.63	1.012	1.012	NO	15.30		0.611	15.30
124	1... PCB-166	8.84e2	1.26	NO	1.14	5.025	46.10	46.10	0.993	0.993	NO	1.538		0.438	1.538
125	1... PCB-159			NO	1.22	5.025	46.45		1.001		YES			0.412	
126	1... PCB-128/162	3.38e4	1.27	NO	0.907	5.025	46.73	46.72	1.007	1.007	NO	73.92		0.552	73.92
127	1... PCB-167	1.06e4	1.32	NO	1.11	5.025	47.16	47.16	1.000	1.000	NO	18.52		0.438	18.52
128	1... PCB-156	2.37e4	1.29	NO	1.13	5.025	48.49	48.49	1.000	1.000	NO	43.31		0.445	43.31
129	1... PCB-157	5.26e3	1.43	YES	1.04	5.025	48.75	48.75	1.000	1.000	NO	10.33		0.485	9.514
130	1... PCB-169			NO	1.16	5.025	51.05		1.000		YES			0.473	
131	1... PCB-188	4.85e2	1.41	YES	1.29	5.025	43.11	43.11	1.001	1.001	NO	1.020		0.387	0.8689
132	1... PCB-184	3.75e2	1.02	NO	1.23	5.025	43.56	43.58	1.011	1.012	NO	0.8265		0.352	0.8265
133	1... PCB-179	3.22e4	1.04	NO	1.30	5.025	44.36	44.36	1.030	1.030	NO	67.21		0.334	67.21
134	1... PCB-176	8.18e3	1.01	NO	1.31	5.025	44.85	44.85	1.041	1.041	NO	16.96		0.332	16.96
135	1... PCB-186			NO	1.33	5.025	45.47		1.056		YES			0.327	
136	1... PCB-178	1.09e4	1.07	NO	0.943	5.025	45.99	45.99	1.068	1.068	NO	31.30		0.460	31.30
137	1... PCB-175	1.72e3	1.02	NO	0.956	5.025	46.35	46.35	1.076	1.076	NO	4.892		0.454	4.892
138	1... PCB-182/187	7.57e4	1.03	NO	1.07	5.025	46.52	46.52	1.080	1.080	NO	192.6		0.407	192.6
139	1... PCB-183	3.00e4	1.09	NO	1.02	5.025	46.84	46.86	1.088	1.088	NO	79.62		0.424	79.62
140	1... PCB-185	6.03e3	0.97	NO	1.41	5.025	47.53	47.54	0.955	0.955	NO	17.97		0.462	17.97



Dataset: U:\VG11.PRO\Results\201026K3\201026K3-8.qld

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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	4.45e4	1.05	NO	1.35	5.025	47.91	47.90	0.962	0.962	NO	137.5		0.480	137.5
142	1... PCB-181	7.15e2	1.00	NO	1.47	5.025	48.02	47.99	0.964	0.964	NO	2.030		0.440	2.030
143	1... PCB-177	2.72e4	1.03	NO	1.28	5.025	48.20	48.18	0.968	0.968	NO	89.28		0.508	89.28
144	1... PCB-171	1.21e4	1.01	NO	1.32	5.025	48.50	48.49	0.974	0.974	NO	38.37		0.493	38.37
145	1... PCB-173	8.52e2	0.78	YES	1.19	5.025	48.93	48.94	0.983	0.983	NO	2.998		0.546	2.561
146	1... PCB-172	7.63e3	1.08	NO	1.38	5.025	49.39	49.40	0.992	0.992	NO	23.24		0.472	23.24
147	1... PCB-192			NO	1.83	5.025	49.60		0.996		YES			0.355	
148	1... PCB-180	1.17e5	1.09	NO	1.41	5.025	49.81	49.81	1.000	1.000	NO	346.6		0.460	346.6
149	1... PCB-193	7.58e3	0.97	NO	1.68	5.025	50.03	50.02	1.005	1.005	NO	18.93		0.387	18.93
150	1... PCB-191	2.35e3	1.01	NO	1.71	5.025	50.29	50.29	1.010	1.010	NO	5.766		0.380	5.766
151	1... PCB-170	4.07e4	1.09	NO	1.40	5.025	51.48	51.48	1.000	1.000	NO	148.8		0.580	148.8
152	1... PCB-190	1.06e4	1.05	NO	1.85	5.025	51.69	51.67	1.005	1.004	NO	29.31		0.439	29.31
153	1... PCB-189	1.66e3	1.27	YES	1.45	5.025	53.17	53.17	1.000	1.000	NO	4.776		0.898	4.314
154	1... PCB-202	5.77e3	1.09	YES	1.17	5.025	48.71	48.69	1.001	1.000	NO	20.42		0.383	18.43
155	1... PCB-201	3.15e3	0.80	NO	1.05	5.025	49.19	49.19	1.010	1.011	NO	12.37		0.425	12.37
156	1... PCB-204	1.79e2	1.23	YES	1.14	5.025	49.34	49.32	1.014	1.013	NO	0.6496		0.392	0.5509
157	1... PCB-197	9.22e2	0.96	NO	1.13	5.025	49.65	49.66	1.020	1.020	NO	3.366		0.395	3.366
158	1... PCB-200	2.73e3	0.72	YES	1.07	5.025	50.59	50.59	1.039	1.039	NO	10.56		0.418	9.421
159	1... PCB-198	1.01e3	0.70	YES	0.794	5.025	52.14	52.18	1.071	1.072	NO	5.241		0.583	4.592
160	1... PCB-199	1.81e4	1.00	NO	0.809	5.025	52.28	52.27	1.074	1.074	NO	92.73		0.553	92.73
161	1... PCB-196/203	1.94e4	0.88	NO	0.838	5.025	52.57	52.58	1.080	1.080	NO	95.71		0.534	95.71
162	1... PCB-195	6.99e3	0.90	NO	1.04	5.025	53.87	53.86	0.984	0.983	NO	21.60		0.685	21.60
163	1... PCB-194	2.59e4	0.88	NO	1.12	5.025	54.78	54.76	1.000	1.000	NO	74.99		0.641	74.99
164	1... PCB-205	1.15e3	1.15	YES	1.29	5.025	55.05	55.04	1.005	1.005	NO	2.874		0.585	2.529
165	1... PCB-208	5.52e3	1.37	NO	0.933	5.025	54.01	54.02	1.000	1.001	NO	23.62		0.505	23.62
166	1... PCB-207	2.23e3	1.29	NO	0.916	5.025	54.33	54.34	1.006	1.007	NO	9.731		0.514	9.731
167	1... PCB-206	1.36e4	1.39	NO	1.01	5.025	56.30	56.30	1.000	1.000	NO	59.49		0.509	59.49
168	1... PCB-209	1.62e4	1.19	NO	0.986	5.025	57.51	57.53	1.000	1.000	NO	75.63		0.358	75.63
169	1... 13C-PCB-1	1.35e6	3.42	NO	0.893	5.025	15.59	15.60	0.609	0.609	NO	1374	69.0	1.46	
170	1... 13C-PCB-3	1.42e6	3.33	NO	0.911	5.025	18.24	18.25	0.712	0.713	NO	1417	71.2	1.43	
171	1... 13C-PCB-4	1.29e6	1.65	NO	0.600	5.025	19.61	19.60	0.766	0.765	NO	1943	97.6	0.743	
172	1... 13C-PCB-9	2.08e6	1.65	NO	0.970	5.025	21.42	21.42	0.837	0.837	NO	1939	97.4	0.460	
173	1... 13C-PCB-11	1.77e6	1.61	NO	0.962	5.025	24.88	24.89	0.972	0.972	NO	1672	84.0	0.464	
174	1... 13C-PCB-19	7.58e5	1.09	NO	0.499	5.025	23.84	23.84	0.931	0.931	NO	1377	69.2	4.78	
175	1... 13C-PCB-32	1.29e6	1.07	NO	0.744	5.025	26.83	26.83	1.048	1.048	NO	1566	78.7	3.21	
176	1... 13C-PCB-28	2.26e6	1.10	NO	1.06	5.025	28.85	28.85	1.004	1.004	NO	1942	97.6	4.01	

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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	2.15e6	1.09	NO	0.989	5.025	32.84	32.87	1.143	1.144	NO	1990	100	4.32	
178	1... 13C-PCB-54	1.20e6	0.81	NO	0.999	5.025	27.68	27.68	0.753	0.753	NO	1781	89.5	1.21	
179	1... 13C-PCB-52	1.08e6	0.82	NO	0.804	5.025	31.35	31.34	0.853	0.852	NO	1992	100	1.50	
180	1... 13C-PCB-47	1.16e6	0.81	NO	0.857	5.025	31.88	31.88	0.867	0.867	NO	2020	101	1.41	
181	1... 13C-PCB-70	1.43e6	0.82	NO	0.996	5.025	35.50	35.49	0.965	0.965	NO	2136	107	1.21	
182	1... 13C-PCB-80	1.50e6	0.82	NO	1.03	5.025	35.94	35.94	0.977	0.977	NO	2167	109	1.17	
183	1... 13C-PCB-81	1.42e6	0.80	NO	0.988	5.025	39.14	39.14	1.064	1.064	NO	2140	108	1.22	
184	1... 13C-PCB-77	1.38e6	0.83	NO	0.969	5.025	39.76	39.76	1.081	1.081	NO	2114	106	1.25	
185	1... 13C-PCB-104	7.67e5	1.65	NO	1.02	5.025	32.52	32.55	0.827	0.827	NO	1949	97.9	1.47	
186	1... 13C-PCB-95	6.48e5	1.65	NO	0.805	5.025	35.78	35.79	0.910	0.910	NO	2078	104	1.85	
187	1... 13C-PCB-101	6.43e5	1.65	NO	0.793	5.025	37.54	37.54	0.954	0.954	NO	2097	105	1.88	
188	1... 13C-PCB-97	5.81e5	1.66	NO	0.696	5.025	38.87	38.88	0.988	0.988	NO	2155	108	2.14	
189	1... 13C-PCB-123	7.42e5	1.58	NO	0.933	5.025	41.54	41.54	1.056	1.056	NO	2054	103	1.60	
190	1... 13C-PCB-118	7.71e5	1.63	NO	0.986	5.025	41.73	41.73	1.061	1.061	NO	2022	102	1.51	
191	1... 13C-PCB-114	1.54e6	1.63	NO	1.55	5.025	42.40	42.40	0.908	0.908	NO	2861	144	1.77	
192	1... 13C-PCB-105	1.50e6	1.58	NO	1.57	5.025	43.31	43.29	0.927	0.927	NO	2752	138	1.74	
193	1... 13C-PCB-127	1.60e6	1.60	NO	1.62	5.025	43.65	43.65	0.935	0.935	NO	2838	143	1.68	
194	1... 13C-PCB-126	1.39e6	1.64	NO	1.57	5.025	45.61	45.61	0.976	0.976	NO	2549	128	1.75	
195	1... 13C-PCB-155	4.83e5	1.31	NO	0.615	5.025	37.07	37.08	0.942	0.942	NO	2030	102	0.686	
196	1... 13C-PCB-153	1.05e6	1.29	NO	1.36	5.025	43.46	43.47	0.930	0.931	NO	2223	112	2.08	
197	1... 13C-PCB-141	8.50e5	1.30	NO	1.13	5.025	44.24	44.22	0.947	0.947	NO	2174	109	2.51	
198	1... 13C-PCB-138	8.80e5	1.26	NO	1.18	5.025	45.09	45.10	0.965	0.966	NO	2142	108	2.39	
199	1... 13C-PCB-159	1.00e6	1.29	NO	1.44	5.025	46.43	46.42	0.994	0.994	NO	2005	101	1.97	
200	2... 13C-PCB-167	1.03e6	1.27	NO	1.44	5.025	47.13	47.14	1.009	1.009	NO	2055	103	1.97	
201	2... 13C-PCB-156	9.68e5	1.28	NO	1.40	5.025	48.47	48.47	1.038	1.038	NO	1998	100	2.03	
202	2... 13C-PCB-157	9.77e5	1.28	NO	1.40	5.025	48.76	48.73	1.044	1.043	NO	2015	101	2.03	
203	2... 13C-PCB-169	8.92e5	1.24	NO	1.33	5.025	51.03	51.03	1.093	1.092	NO	1932	97.1	2.13	
204	2... 13C-PCB-188	7.33e5	0.46	NO	1.41	5.025	43.06	43.07	0.926	0.926	NO	2232	112	1.26	
205	2... 13C-PCB-180	4.75e5	0.47	NO	0.929	5.025	49.78	49.79	1.070	1.070	NO	2195	110	1.91	
206	2... 13C-PCB-170	3.89e5	0.47	NO	0.794	5.025	51.44	51.46	1.106	1.106	NO	2102	106	2.23	
207	2... 13C-PCB-189	4.76e5	0.45	NO	1.04	5.025	53.15	53.15	1.143	1.143	NO	1954	98.2	1.69	
208	2... 13C-PCB-202	4.81e5	0.90	NO	1.04	5.025	48.68	48.67	1.046	1.046	NO	1993	100	0.632	
209	2... 13C-PCB-194	6.16e5	0.92	NO	0.768	5.025	54.75	54.76	0.995	0.995	NO	2734	137	2.68	
210	2... 13C-PCB-208	4.99e5	0.79	NO	0.991	5.025	53.99	53.99	0.981	0.981	NO	1715	86.2	2.39	
211	2... 13C-PCB-206	4.52e5	0.80	NO	0.552	5.025	56.29	56.29	1.023	1.023	NO	2791	140	4.28	
212	2... 13C-PCB-209	4.31e5	1.20	NO	0.396	5.025	57.53	57.51	1.046	1.045	NO	3703	186	0.688	

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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	2.20e6	1.62	NO	1.00	5.025	25.58	25.60	1.000	0.000	NO	1990	100	0.446	
214	2... 13C-PCB-31	2.17e6	1.08	NO	1.00	5.025	28.72	28.74	1.000	0.000	NO	1990	100	4.27	
215	2... 13C-PCB-60	1.34e6	0.83	NO	1.00	5.025	36.74	36.78	1.000	0.000	NO	1990	100	1.21	
216	2... 13C-PCB-111	7.70e5	1.65	NO	1.00	5.025	39.33	39.35	1.000	0.000	NO	1990	100	1.49	
217	2... 13C-PCB-128	6.90e5	1.28	NO	1.00	5.025	46.67	46.71	1.000	0.000	NO	1990	100	2.84	
218	2... 13C-PCB-182	4.64e5	0.47	NO	1.00	5.025	46.50	46.51	0.000	0.000	NO	1990	100	1.77	
219	2... 13C-PCB-205	5.84e5	0.92	NO	1.00	5.025	55.01	55.03	1.000	0.000	NO	1990	100	2.06	
220	2... 13C-PCB-79	1.33e6	0.81	NO	1.07	5.025	37.88	37.88	1.030	1.030	NO	1848	92.8	1.13	
221	2... 13C-PCB-178	4.15e5	0.46	NO	0.766	5.025	45.97	45.97	0.988	0.988	NO	1562	78.5	1.56	
222	2... 13C-PCB-79	1.33e6	0.81	NO	1.08	5.025	37.87	37.88	0.968	0.968	NO	1718	86.3	1.06	
223	2... 13C-PCB-178	4.15e5	0.46	NO	1.05	5.025	45.98	45.97	0.923	0.923	NO	1654	83.1	1.58	
224	2... Total Mono-PCBs				1.17	5.025	0.00		0.000		NO	28.38		0.896	28.38
225	2... Total Di-PCBs				1.05	5.025	0.00		0.000		NO	196.6		4.02	196.6
226	2... 2nd Function Tri-PCBs				1.08	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	2... 3rd Function Tri-PCBs				0.983	5.025	0.00		0.000		NO	422.1		6.01	423.4
228	2... Total Tetra-PCBs				1.08	5.025	0.00		0.000		NO	1447		8.49	1474
229	2... 3rd Function Penta-PCBs				1.32	5.025	0.00		0.000		NO	1857		12.9	1913
230	2... 4th Function Penta-PCBs				1.07	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	2... 3rd Function Hexa-PCBs				0.951	5.025	0.00		0.000		NO	561.0		4.08	582.7
232	2... 4th Function Hexa-PCBs				1.03	5.025	0.00		0.000		NO	1521		9.79	1532
233	2... Total Hepta-PCBs				1.36	5.025	0.00		0.000		NO	1251		8.83	1259
234	2... 4th Function Octa-PCBs				1.00	5.025	0.00		0.000		NO	204.2		3.66	237.2
235	2... 5th Function Octa-PCBs				1.15	5.025	0.00		0.000		NO	96.59		1.88	99.11
236	2... Total Nona-PCBs				0.952	5.025	0.00		0.000		NO	92.84		1.63	92.84
237	2... Deca-CB				0.986	5.025	0.00		0.000		NO	75.63		0.358	75.63
238	2... Total PCBs														

Handwritten notes on the right side of the table:  
 > 565.8  
 > 1984  
 > 2082  
 > 300.79  
 > 573.7  
 > 2043.6  
 > 2114.7  
 > 336.31

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-8.qld

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

**Total Mono-PCBs**

	Name	Pred.R	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-1	15.61	15.61	4.891e4	1.732e4	3.032e3	9.903e2	3.06	NO	4.022e3	5.0574	5.0574	0.223
2	PCB-2	18.03	18.02	1.777e5	5.506e4	1.141e4	3.478e3	3.28	NO	1.488e4	17.573	17.573	0.233
3	PCB-3	18.26	18.26	5.679e4	1.668e4	3.665e3	1.064e3	3.44	NO	4.729e3	5.7514	5.7514	0.240

**Total Di-PCBs**

	Name	Pred.R	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-4/10	19.68	19.62	1.334e5	8.794e4	9.248e3	6.317e3	1.46	NO	1.557e4	19.293	19.293	0.571
2	PCB-7/9	21.48	21.46	2.585e4	1.922e4	2.506e3	1.716e3	1.46	NO	4.222e3	4.2173	4.2173	0.460
3	PCB-6	22.13	22.14	9.546e4	5.598e4	6.385e3	3.710e3	1.72	NO	1.009e4	9.4578	9.4578	0.431
4	PCB-5/8	22.54	22.53	3.603e5	2.239e5	2.388e4	1.492e4	1.60	NO	3.880e4	37.492	37.492	0.445
5	PCB-11	24.91	24.91	6.262e5	3.972e5	4.301e4	2.785e4	1.54	NO	7.086e4	70.570	70.570	0.492
6	PCB-12/13	25.34	25.27	4.393e4	3.073e4	3.966e3	2.447e3	1.62	NO	6.414e3	7.0080	7.0080	0.540
7	PCB-15	25.63	25.62	3.819e5	2.377e5	2.773e4	1.707e4	1.62	NO	4.480e4	48.561	48.561	0.535

**2nd Function Tri-PCBs**

	Name	Pred.R	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-19	23.87	23.87	6.597e4	5.665e4	4.632e3	4.137e3	1.12	NO	8.769e3	20.804	20.804	0.552
2	PCB-18	25.53	25.54	1.968e5	2.048e5	1.399e4	1.361e4	1.03	NO	2.760e4	52.219	52.219	0.423
3	PCB-17	25.72	25.71	1.018e5	1.066e5	7.391e3	7.089e3	1.04	NO	1.448e4	29.545	29.545	0.456
4	PCB-24/27	26.32	26.29	3.510e4	3.115e4	2.748e3	2.277e3	1.21	YES	5.025e3	0.00000	6.6431	0.320
5	PCB-16/32	26.85	26.85	1.236e5	1.118e5	1.269e4	1.189e4	1.07	NO	2.459e4	41.111	41.111	0.374

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3rd Function Tri-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-34	27.66	27.64	8.840e3	8.461e3	8.619e2	6.838e2	1.26	YES	1.546e3	0.00000	1.3014	0.439
2	PCB-29	28.01	28.01	5.819e3	5.050e3	3.714e2	3.355e2	1.11	NO	7.070e2	0.69846	0.69846	0.465
3	PCB-26	28.24	28.24	1.573e5	1.471e5	1.204e4	1.168e4	1.03	NO	2.373e4	22.172	22.172	0.440
4	PCB-25	28.39	28.40	9.034e4	8.624e4	7.558e3	7.251e3	1.04	NO	1.481e4	13.752	13.752	0.437
5	PCB-31	28.77	28.76	7.846e5	7.194e5	6.218e4	5.806e4	1.07	NO	1.202e5	102.35	102.35	0.400
6	PCB-28	28.87	28.87	9.486e5	8.940e5	7.526e4	7.112e4	1.06	NO	1.464e5	125.97	125.97	0.405
7	PCB-20/21/33	29.51	29.52	3.958e5	3.864e5	3.478e4	3.303e4	1.05	NO	6.781e4	63.540	63.540	0.441
8	PCB-22	29.95	29.97	2.641e5	2.474e5	2.200e4	2.086e4	1.05	NO	4.286e4	38.858	38.858	0.426
9	PCB-38	31.90	31.92	1.776e4	1.566e4	1.707e3	1.463e3	1.17	NO	3.170e3	2.7906	2.7906	0.411
10	PCB-35	32.45	32.46	2.444e4	1.896e4	1.776e3	1.553e3	1.14	NO	3.329e3	2.9539	2.9539	0.414
11	PCB-37	32.89	32.89	3.375e5	3.380e5	2.700e4	2.645e4	1.02	NO	5.345e4	49.055	49.055	0.428

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Total Tetra-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-54	27.70	27.70	1.451e4	2.027e4	1.231e3	1.702e3	0.72	NO	2.933e3	4.5164	4.5164	0.249
2	PCB-50	28.91	28.92	3.193e3	3.444e3	3.039e2	4.023e2	0.76	NO	7.063e2	1.3351	1.3351	0.305
3	PCB-53	29.58	29.58	9.041e4	1.014e5	7.211e3	8.207e3	0.88	NO	1.542e4	28.575	28.575	0.317
4	PCB-51	29.93	29.93	5.298e4	6.772e4	4.196e3	5.388e3	0.78	NO	9.584e3	16.620	16.620	0.296
5	PCB-45	30.38	30.38	4.699e4	6.429e4	3.696e3	4.951e3	0.75	NO	8.647e3	18.607	18.607	0.368
6	PCB-46	30.88	30.88	1.983e4	2.452e4	1.663e3	2.102e3	0.79	NO	3.765e3	8.3712	8.3712	0.380
7	PCB-52/69	31.38	31.36	6.343e5	7.776e5	5.255e4	6.579e4	0.80	NO	1.183e5	187.40	187.40	0.270
8	PCB-43/49	31.67	31.68	4.295e5	5.185e5	3.760e4	4.514e4	0.83	NO	8.274e4	150.42	150.42	0.311
9	PCB-47	31.90	31.90	2.359e5	3.085e5	2.168e4	2.771e4	0.78	NO	4.939e4	91.554	91.554	0.339
10	PCB-48/75	32.01	32.03	8.273e4	1.117e5	6.990e3	9.283e3	0.75	NO	1.627e4	24.824	24.824	0.279
11	PCB-44	32.72	32.72	3.938e5	4.816e5	2.977e4	3.663e4	0.81	NO	6.641e4	137.69	137.69	0.380
12	PCB-42/59	32.94	32.94	1.653e5	2.016e5	1.346e4	1.625e4	0.83	NO	2.971e4	48.364	48.364	0.298
13	PCB-41/64/71/72	33.56	33.54	4.343e5	5.461e5	3.724e4	4.661e4	0.80	NO	8.385e4	120.68	120.68	0.264
14	PCB-68	33.82	33.82	1.165e4	1.599e4	1.004e3	1.483e3	0.68	NO	2.486e3	3.3251	3.3251	0.245
15	PCB-40	34.04	34.02	5.488e4	6.781e4	4.488e3	5.434e3	0.83	NO	9.922e3	28.162	28.162	0.520
16	PCB-57	34.40	34.41	4.104e3	7.181e3	4.075e2	5.240e2	0.78	NO	9.315e2	1.1141	1.1141	0.198
17	PCB-67	34.71	34.71	1.890e4	2.971e4	1.694e3	2.352e3	0.72	NO	4.046e3	5.1917	5.1917	0.212
18	PCB-58	34.84	34.84	6.661e3	8.306e3	5.212e2	6.050e2	0.86	NO	1.126e3	1.3011	1.3011	0.191
19	PCB-63	34.99	34.99	3.290e4	3.141e4	2.511e3	2.745e3	0.91	YES	5.256e3	0.00000	6.3061	0.215
20	PCB-74	35.29	35.29	3.391e5	4.500e5	2.798e4	3.730e4	0.75	NO	6.528e4	76.622	76.622	0.194
21	PCB-61/70	35.51	35.51	8.936e5	1.131e6	7.123e4	8.956e4	0.80	NO	1.608e5	212.15	212.15	0.218
22	PCB-76/66	35.70	35.74	7.551e5	9.216e5	6.486e4	8.036e4	0.81	NO	1.452e5	173.48	173.48	0.198
23	PCB-55	36.30	36.26	1.006e4	1.396e4	1.045e3	1.365e3	0.77	NO	2.410e3	2.7379	2.7379	0.197
24	PCB-56/60	36.79	36.78	3.981e5	4.956e5	3.384e4	4.129e4	0.82	NO	7.513e4	98.005	98.005	0.226
25	PCB-79	37.92	37.91	2.008e4	2.390e4	1.712e3	2.111e3	0.81	NO	3.824e3	4.4598	4.4598	0.202
26	PCB-78	38.62	38.54	3.777e3	5.116e3	3.877e2	3.477e2	1.12	YES	7.355e2	0.00000	0.75811	0.219
27	PCB-81	39.16	39.18	1.363e4	2.191e4	4.906e2	7.044e2	0.70	NO	1.195e3	1.5986	1.5986	0.238
28	PCB-77	39.77	39.77	9.284e4	1.041e5	8.002e3	8.958e3	0.89	YES	1.696e4	0.00000	20.152	0.226

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3rd Function Penta-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-104	32.57	32.57	2.237e3	3.629e3	1.548e2	2.865e2	0.54	YES	4.413e2	0.00000	0.58784	0.407
2	PCB-96	33.88	33.84	1.373e4	7.022e3	1.195e3	6.546e2	1.83	YES	1.850e3	0.00000	3.7699	0.395
3	PCB-103	34.43	34.41	2.316e4	1.346e4	1.837e3	1.083e3	1.70	NO	2.920e3	8.0932	8.0932	0.487
4	PCB-100	34.81	34.79	2.285e4	1.253e4	1.799e3	1.095e3	1.64	NO	2.894e3	7.8781	7.8781	0.478
5	PCB-94	35.27	35.27	7.819e3	4.565e3	5.832e2	3.658e2	1.59	NO	9.490e2	3.0732	3.0732	0.572
6	PCB-95/98/102	35.74	35.83	6.236e5	3.754e5	5.332e4	3.287e4	1.62	NO	8.619e4	219.89	219.89	0.451
7	PCB-88/91	36.22	36.24	1.448e5	8.099e4	1.209e4	6.689e3	1.81	YES	1.878e4	0.00000	49.413	0.510
8	PCB-84/92	37.17	37.17	3.531e5	2.058e5	2.839e4	1.721e4	1.65	NO	4.560e4	138.67	138.67	0.559
9	PCB-89	37.36	37.35	8.106e3	6.034e3	6.745e2	5.108e2	1.32	YES	1.185e3	0.00000	3.0995	0.515
10	PCB-90/101	37.55	37.58	9.384e5	5.864e5	8.213e4	4.991e4	1.65	NO	1.320e5	363.97	363.97	0.507
11	PCB-113	37.80	37.80	1.041e4	8.421e3	2.830e2	1.838e2	1.54	NO	4.667e2	0.95399	0.95399	0.376
12	PCB-99	37.90	37.91	4.689e5	2.950e5	3.960e4	2.505e4	1.58	NO	6.465e4	151.45	151.45	0.431
13	PCB-119	38.38	38.38	4.759e4	2.652e4	3.994e3	2.347e3	1.70	NO	6.341e3	12.035	12.035	0.352
14	PCB-108/112	38.53	38.56	4.152e4	2.466e4	3.311e3	1.875e3	1.77	NO	5.185e3	12.296	12.296	0.440
15	PCB-97	38.90	38.92	2.313e5	1.336e5	1.966e4	1.167e4	1.68	NO	3.134e4	83.759	83.759	0.496
16	PCB-87/117/125	39.19	39.20	3.097e5	2.064e5	2.681e4	1.747e4	1.53	NO	4.428e4	97.330	97.330	0.408
17	PCB-111/115	39.35	39.38	2.447e4	1.580e4	1.294e3	8.578e2	1.51	NO	2.152e3	3.8600	3.8600	0.333
18	PCB-85/116	39.47	39.47	1.525e5	9.157e4	1.292e4	7.847e3	1.65	NO	2.077e4	50.449	50.449	0.451
19	PCB-110	39.89	39.88	1.196e6	7.544e5	1.015e5	6.319e4	1.61	NO	1.647e5	323.85	323.85	0.365
20	PCB-82	40.52	40.52	7.815e4	4.499e4	6.617e3	3.911e3	1.69	NO	1.053e4	36.159	36.159	0.643
21	PCB-124	41.23	41.24	4.413e4	2.543e4	4.071e3	2.367e3	1.72	NO	6.438e3	12.366	12.366	0.359
22	PCB-107/109	41.37	41.41	8.645e4	4.958e4	7.522e3	4.406e3	1.71	NO	1.193e4	23.854	23.854	0.374
23	PCB-123	41.56	41.56	1.849e4	1.074e4	1.553e3	1.071e3	1.45	NO	2.624e3	5.8782	5.8782	0.419
24	PCB-106/118	41.76	41.75	9.996e5	6.131e5	8.767e4	5.442e4	1.61	NO	1.421e5	300.78	300.78	0.394

4th Function Penta-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-114	42.43	42.42	3.244e4	2.147e4	2.901e3	1.771e3	1.64	NO	4.672e3	5.3077	5.3077	0.535
2	PCB-122	42.57	42.58	1.937e4	1.489e4	1.615e3	1.280e3	1.26	YES	2.896e3	0.00000	3.6395	0.647
3	PCB-105	43.31	43.31	6.674e5	4.160e5	5.833e4	3.626e4	1.61	NO	9.459e4	119.37	119.37	0.591
4	PCB-126	45.62	45.63	1.186e4	9.514e3	1.078e3	7.996e2	1.35	NO	1.878e3	2.2994	2.2994	0.592

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3rd Function Hexa-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-155	37.09	37.07	7.900e2	8.560e2	6.441e1	6.056e1	1.06	NO	1.250e2	0.49349	0.49349	0.280
2	PCB-150	38.40	38.38	2.991e3	3.310e3	2.066e2	2.576e2	0.80	YES	4.642e2	0.00000	1.4198	0.270
3	PCB-152	38.88	38.88	1.431e3	8.640e2	1.284e2	9.678e1	1.33	NO	2.251e2	0.78208	0.78208	0.247
4	PCB-136	39.68	39.68	1.017e5	7.932e4	8.723e3	6.473e3	1.35	NO	1.520e4	61.347	61.347	0.287
5	PCB-148	39.79	39.77	4.106e3	1.822e3	2.498e2	1.056e2	2.37	YES	3.554e2	0.00000	1.1579	0.348
6	PCB-154	40.30	40.29	1.527e4	1.215e4	1.293e3	1.029e3	1.26	NO	2.322e3	10.414	10.414	0.318
7	PCB-151	40.97	40.96	1.439e5	1.170e5	1.193e4	9.664e3	1.23	NO	2.159e4	113.14	113.14	0.372
8	PCB-135	41.19	41.19	7.464e4	6.528e4	6.603e3	5.176e3	1.28	NO	1.178e4	52.640	52.640	0.317
9	PCB-144	41.30	41.30	2.338e4	2.190e4	1.809e3	1.875e3	0.97	YES	3.684e3	0.00000	17.072	0.371
10	PCB-147	41.43	41.43	1.892e4	1.244e4	1.298e3	9.898e2	1.31	NO	2.288e3	11.297	11.297	0.351
11	PCB-139/149	41.72	41.69	4.906e5	3.735e5	4.043e4	3.105e4	1.30	NO	7.149e4	310.86	310.86	0.309
12	PCB-140	41.90	41.89	5.560e3	2.380e3	3.471e2	1.815e2	1.91	YES	5.286e2	0.00000	2.1119	0.369



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4th Function Hexa-PCBs

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 PCB-134/143	42.34	42.37	5.739e4	4.715e4	5.140e3	4.187e3	1.23	NO	9.327e3	23.238	23.238	0.587
2 PCB-131/133	42.67	42.65	4.298e4	3.133e4	3.809e3	2.743e3	1.39	NO	6.552e3	15.094	15.094	0.543
3 PCB-146/165	43.07	43.07	2.951e5	2.438e5	2.529e4	2.097e4	1.21	NO	4.627e4	86.053	86.053	0.438
4 PCB-132/161	43.31	43.33	3.933e5	3.201e5	3.300e4	2.662e4	1.24	NO	5.962e4	110.08	110.08	0.435
5 PCB-153	43.48	43.48	1.770e6	1.370e6	1.514e5	1.161e5	1.30	NO	2.675e5	472.44	472.44	0.416
6 PCB-168	43.71	43.71	3.158e3	2.966e3	2.912e2	2.806e2	1.04	YES	5.718e2	0.00000	0.92334	0.414
7 PCB-141	44.24	44.24	2.468e5	1.925e5	2.153e4	1.664e4	1.29	NO	3.817e4	87.005	87.005	0.541
8 PCB-137	44.63	44.64	4.884e4	3.934e4	4.453e3	3.484e3	1.28	NO	7.936e3	16.726	16.726	0.501
9 PCB-130	44.73	44.75	6.847e4	5.479e4	5.402e3	4.140e3	1.31	NO	9.542e3	25.221	25.221	0.628
10 PCB-138/163/164	45.13	45.13	1.526e6	1.169e6	1.556e5	1.206e5	1.29	NO	2.762e5	486.53	486.53	0.412
11 PCB-158/160	45.40	45.36	1.591e5	1.296e5	1.403e4	1.133e4	1.24	NO	2.536e4	46.246	46.246	0.427
12 PCB-129	45.63	45.63	3.749e4	2.920e4	3.232e3	2.631e3	1.23	NO	5.863e3	15.296	15.296	0.611
13 PCB-166	46.10	46.10	6.289e3	4.292e3	4.922e2	3.922e2	1.26	NO	8.844e2	1.5377	1.5377	0.438
14 PCB-128/162	46.73	46.72	2.160e5	1.664e5	1.886e4	1.490e4	1.27	NO	3.375e4	73.920	73.920	0.552
15 PCB-167	47.16	47.16	6.412e4	5.174e4	6.031e3	4.558e3	1.32	NO	1.059e4	18.521	18.521	0.438
16 PCB-156	48.49	48.49	1.535e5	1.141e5	1.338e4	1.034e4	1.29	NO	2.372e4	43.306	43.306	0.445
17 PCB-157	48.75	48.75	3.292e4	2.311e4	3.098e3	2.164e3	1.43	YES	5.262e3	0.00000	9.5143	0.485

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Total Hepta-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-188	43.11	43.11	3.223e3	1.986e3	2.831e2	2.014e2	1.41	YES	4.845e2	0.00000	0.86891	0.337
2	PCB-184	43.56	43.58	2.801e3	2.127e3	1.894e2	1.857e2	1.02	NO	3.751e2	0.82649	0.82649	0.352
3	PCB-179	44.36	44.36	1.932e5	1.869e5	1.641e4	1.574e4	1.04	NO	3.215e4	67.212	67.212	0.334
4	PCB-176	44.85	44.85	4.740e4	4.333e4	4.111e3	4.065e3	1.01	NO	8.176e3	16.955	16.955	0.332
5	PCB-178	45.99	45.99	6.450e4	6.044e4	5.635e3	5.245e3	1.07	NO	1.088e4	31.301	31.301	0.460
6	PCB-175	46.35	46.35	1.079e4	1.173e4	8.699e2	8.540e2	1.02	NO	1.724e3	4.8922	4.8922	0.454
7	PCB-182/187	46.52	46.52	4.337e5	4.034e5	3.843e4	3.723e4	1.03	NO	7.565e4	192.57	192.57	0.407
8	PCB-183	46.84	46.86	1.794e5	1.676e5	1.566e4	1.435e4	1.09	NO	3.001e4	79.619	79.619	0.424
9	PCB-185	47.53	47.54	3.291e4	3.360e4	2.978e3	3.055e3	0.97	NO	6.032e3	17.971	17.971	0.462
10	PCB-174	47.91	47.90	2.519e5	2.435e5	2.274e4	2.172e4	1.05	NO	4.446e4	137.53	137.53	0.480
11	PCB-181	48.02	47.99	1.187e4	1.200e4	3.566e2	3.581e2	1.00	NO	7.147e2	2.0298	2.0298	0.440
12	PCB-177	48.20	48.18	1.635e5	1.536e5	1.384e4	1.340e4	1.03	NO	2.724e4	89.279	89.279	0.508
13	PCB-171	48.50	48.49	7.180e4	6.998e4	6.057e3	6.004e3	1.01	NO	1.206e4	38.373	38.373	0.493
14	PCB-173	48.93	48.94	4.232e3	5.147e3	3.728e2	4.792e2	0.78	YES	8.520e2	0.00000	2.5612	0.546
15	PCB-172	49.39	49.40	4.642e4	4.370e4	3.962e3	3.672e3	1.08	NO	7.634e3	23.244	23.244	0.472
16	PCB-180	49.81	49.81	6.873e5	6.443e5	6.083e4	5.603e4	1.09	NO	1.169e5	346.64	346.64	0.460
17	PCB-193	50.03	50.02	4.333e4	4.360e4	3.732e3	3.847e3	0.97	NO	7.579e3	18.927	18.927	0.387
18	PCB-191	50.29	50.29	1.373e4	1.260e4	1.184e3	1.171e3	1.01	NO	2.355e3	5.7663	5.7663	0.380
19	PCB-170	51.48	51.48	2.458e5	2.244e5	2.121e4	1.954e4	1.09	NO	4.075e4	148.76	148.76	0.580
20	PCB-190	51.69	51.67	6.249e4	5.911e4	5.427e3	5.184e3	1.05	NO	1.061e4	29.312	29.312	0.439
21	PCB-189	53.17	53.17	1.279e4	9.224e3	9.278e2	7.309e2	1.27	YES	1.659e3	0.00000	4.3140	0.398

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-8.qld

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ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

4th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-202	48.71	48.69	3.560e4	3.268e4	3.014e3	2.754e3	1.09	YES	5.768e3	0.00000	18.429	0.383
2	PCB-201	49.19	49.19	1.590e4	1.791e4	1.394e3	1.753e3	0.80	NO	3.148e3	12.366	12.366	0.425
3	PCB-204	49.34	49.32	8.730e2	1.141e3	9.878e1	8.040e1	1.23	YES	1.792e2	0.00000	0.55086	0.392
4	PCB-197	49.65	49.66	4.827e3	5.632e3	4.509e2	4.709e2	0.96	NO	9.217e2	3.3657	3.3657	0.395
5	PCB-200	50.59	50.59	1.342e4	1.789e4	1.148e3	1.584e3	0.72	YES	2.732e3	0.00000	9.4212	0.418
6	PCB-198	52.14	52.18	9.206e3	1.238e4	4.151e2	5.909e2	0.70	YES	1.006e3	0.00000	4.5921	0.563
7	PCB-199	52.28	52.27	1.090e5	1.170e5	9.089e3	9.056e3	1.00	NO	1.814e4	92.732	92.732	0.553
8	PCB-196/203	52.57	52.58	1.111e5	1.310e5	9.073e3	1.032e4	0.88	NO	1.940e4	95.711	95.711	0.534

5th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-195	53.87	53.86	5.299e4	5.591e4	3.303e3	3.682e3	0.90	NO	6.985e3	21.595	21.595	0.685
2	PCB-194	54.78	54.76	1.907e5	2.135e5	1.210e4	1.382e4	0.88	NO	2.592e4	74.991	74.991	0.641
3	PCB-205	55.05	55.04	9.263e3	8.167e3	6.135e2	5.343e2	1.15	YES	1.148e3	0.00000	2.5287	0.555

Total Nona-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-208	54.01	54.02	4.819e4	3.472e4	3.188e3	2.335e3	1.37	NO	5.524e3	23.621	23.621	0.505
2	PCB-207	54.33	54.34	1.964e4	1.539e4	1.258e3	9.766e2	1.29	NO	2.235e3	9.7309	9.7309	0.514
3	PCB-206	56.30	56.30	1.243e5	9.048e4	7.924e3	5.699e3	1.39	NO	1.362e4	59.493	59.493	0.509

Deca-CB

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-209	57.51	57.53	1.604e5	1.344e5	8.782e3	7.369e3	1.19	NO	1.615e4	75.630	75.630	0.358

Total PCBs

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

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**Total Mono-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-1	15.59	15.60	1.822e7	5.235e6	1.048e6	3.062e5	3.42	NO	1.355e6	1373.8		1.46
2	13C-PCB-3	18.24	18.25	1.709e7	5.084e6	1.096e6	3.289e5	3.33	NO	1.425e6	1417.3		1.43

**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-4	19.61	19.60	1.234e7	7.470e6	8.002e5	4.862e5	1.65	NO	1.286e6	1942.7		0.743
2	13C-PCB-9	21.42	21.42	1.993e7	1.202e7	1.291e6	7.839e5	1.65	NO	2.075e6	1939.1		0.460
3	13C-PCB-11	24.88	24.89	1.572e7	9.795e6	1.093e6	6.807e5	1.61	NO	1.774e6	1671.6		0.464
4	13C-PCB-15	25.58	25.60	1.945e7	1.210e7	1.359e6	8.370e5	1.62	NO	2.196e6	1990.0		0.446

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-19	23.84	23.84	5.530e6	5.131e6	3.961e5	3.621e5	1.09	NO	7.582e5	1377.0		4.78
2	13C-PCB-32	26.83	26.83	9.687e6	8.924e6	6.658e5	6.202e5	1.07	NO	1.286e6	1565.9		3.21

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-31	28.72	28.74	1.380e7	1.288e7	1.130e6	1.042e6	1.08	NO	2.172e6	1990.0		4.27
2	13C-PCB-28	28.85	28.85	1.506e7	1.362e7	1.181e6	1.075e6	1.10	NO	2.256e6	1941.9		4.01
3	13C-PCB-37	32.84	32.87	1.443e7	1.333e7	1.123e6	1.026e6	1.09	NO	2.149e6	1990.1		4.32

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**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-54	27.68	27.68	6.834e6	8.460e6	5.364e5	6.605e5	0.81	NO	1.197e6	1780.8		1.21
2	13C-PCB-52	31.35	31.34	5.854e6	7.106e6	4.860e5	5.913e5	0.82	NO	1.077e6	1991.9		1.50
3	13C-PCB-47	31.88	31.88	5.875e6	7.147e6	5.229e5	6.416e5	0.81	NO	1.165e6	2019.8		1.41
4	13C-PCB-70	35.50	35.49	7.999e6	9.792e6	6.434e5	7.872e5	0.82	NO	1.431e6	2136.3		1.21
5	13C-PCB-80	35.94	35.94	8.005e6	9.800e6	6.748e5	8.239e5	0.82	NO	1.499e6	2167.5		1.17
6	13C-PCB-60	36.74	36.78	7.112e6	8.543e6	6.069e5	7.315e5	0.83	NO	1.338e6	1990.0		1.21
7	13C-PCB-79	37.88	37.88	7.178e6	8.918e6	5.927e5	7.354e5	0.81	NO	1.328e6	1847.5		1.13
8	13C-PCB-81	39.14	39.14	7.333e6	9.099e6	6.334e5	7.882e5	0.80	NO	1.422e6	2139.6		1.22
9	13C-PCB-77	39.76	39.76	7.217e6	8.611e6	6.241e5	7.530e5	0.83	NO	1.377e6	2113.8		1.25

**3rd Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-104	32.52	32.55	5.999e6	3.681e6	4.770e5	2.896e5	1.65	NO	7.666e5	1949.0		1.47
2	13C-PCB-95	35.78	35.79	5.039e6	3.057e6	4.029e5	2.447e5	1.65	NO	6.476e5	2078.4		1.85
3	13C-PCB-101	37.54	37.54	4.817e6	2.909e6	4.006e5	2.424e5	1.65	NO	6.430e5	2096.6		1.88
4	13C-PCB-97	38.87	38.88	4.313e6	2.626e6	3.620e5	2.187e5	1.66	NO	5.808e5	2155.1		2.14
5	13C-PCB-111	39.33	39.35	5.696e6	3.463e6	4.792e5	2.908e5	1.65	NO	7.701e5	1990.0		1.49
6	13C-PCB-123	41.54	41.54	5.367e6	3.345e6	4.543e5	2.873e5	1.58	NO	7.416e5	2054.4		1.60
7	13C-PCB-118	41.73	41.73	5.667e6	3.519e6	4.773e5	2.937e5	1.63	NO	7.710e5	2021.5		1.51

**4th Function Penta-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-114	42.40	42.40	1.103e7	6.852e6	9.505e5	5.845e5	1.63	NO	1.535e6	2861.2		1.77
2	13C-PCB-105	43.31	43.29	1.073e7	6.729e6	9.201e5	5.807e5	1.58	NO	1.501e6	2751.6		1.74
3	13C-PCB-127	43.65	43.65	1.148e7	7.119e6	9.834e5	6.162e5	1.60	NO	1.600e6	2838.2		1.68
4	13C-PCB-126	45.61	45.61	9.738e6	5.934e6	8.618e5	5.248e5	1.64	NO	1.387e6	2549.4		1.75

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4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-153	43.46	43.47	6.912e6	5.319e6	5.925e5	4.599e5	1.29	NO	1.052e6	2223.0		2.08
2	13C-PCB-141	44.24	44.22	5.560e6	4.330e6	4.805e5	3.699e5	1.30	NO	8.504e5	2173.7		2.51
3	13C-PCB-138	45.09	45.10	5.754e6	4.502e6	4.901e5	3.901e5	1.26	NO	8.802e5	2141.8		2.39
4	13C-PCB-159	46.43	46.42	6.154e6	4.833e6	5.641e5	4.372e5	1.29	NO	1.001e6	2005.4		1.97
5	13C-PCB-128	46.67	46.71	4.333e6	3.346e6	3.875e5	3.028e5	1.28	NO	6.903e5	1990.0		2.84
6	13C-PCB-167	47.13	47.14	6.312e6	4.913e6	5.751e5	4.512e5	1.27	NO	1.026e6	2054.5		1.97
7	13C-PCB-156	48.47	48.47	6.124e6	4.836e6	5.430e5	4.252e5	1.28	NO	9.682e5	1998.1		2.03
8	13C-PCB-157	48.76	48.73	6.083e6	4.806e6	5.473e5	4.292e5	1.28	NO	9.765e5	2015.3		2.03
9	13C-PCB-169	51.03	51.03	5.533e6	4.316e6	4.948e5	3.975e5	1.24	NO	8.923e5	1932.4		2.13

5th Function Octa-Isotopes

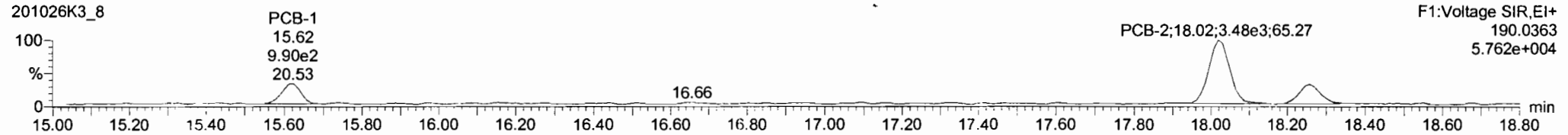
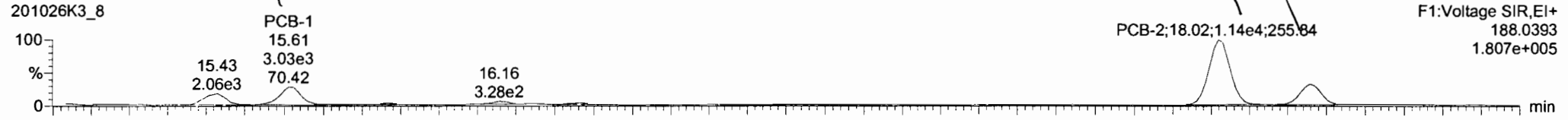
	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-194	54.75	54.76	4.600e6	4.962e6	2.961e5	3.202e5	0.92	NO	6.163e5	2734.4		2.68
2	13C-PCB-205	55.01	55.03	4.630e6	5.015e6	2.803e5	3.037e5	0.92	NO	5.840e5	1990.0		2.06

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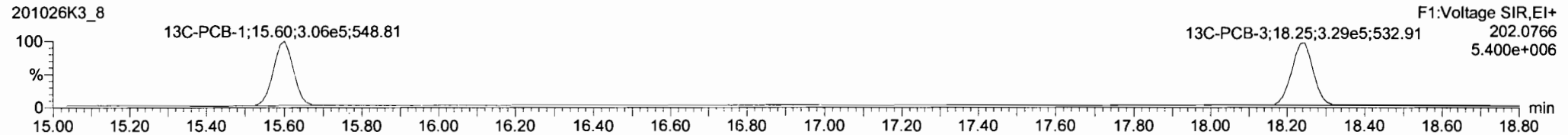
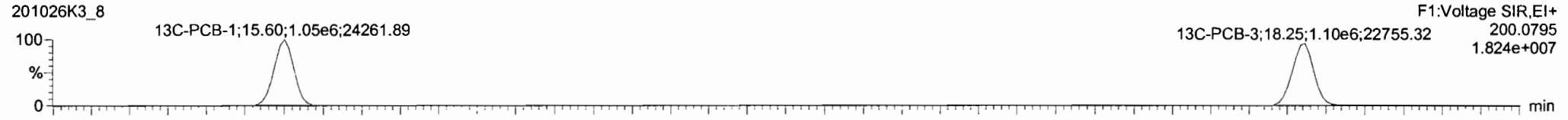
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

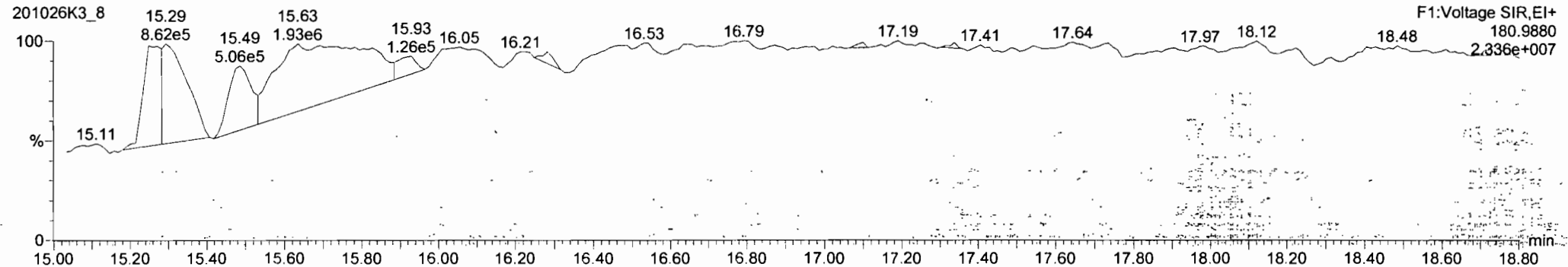
**PCB-1**



**13C-PCB-1**



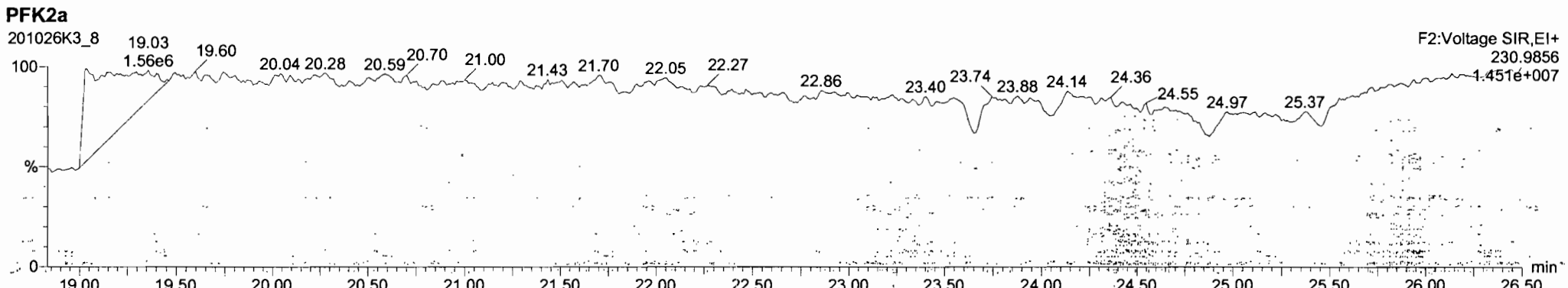
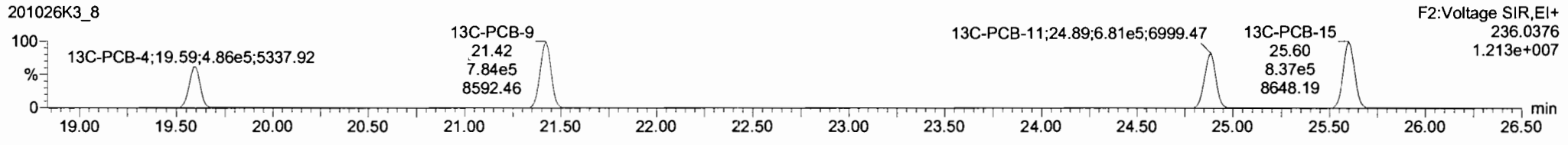
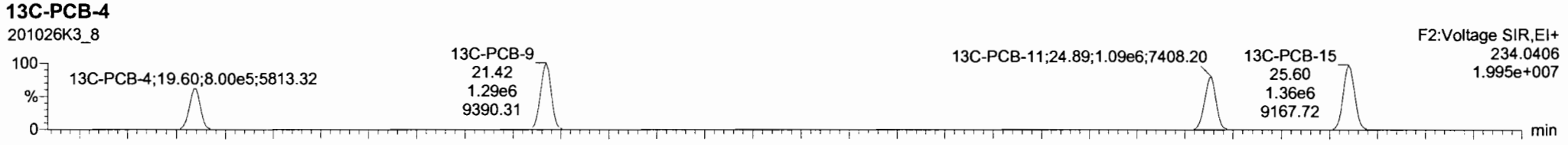
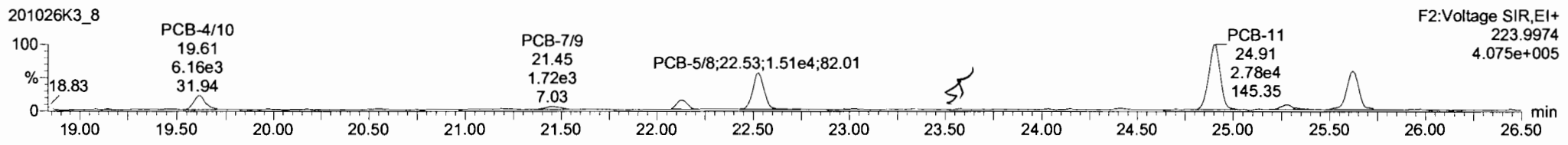
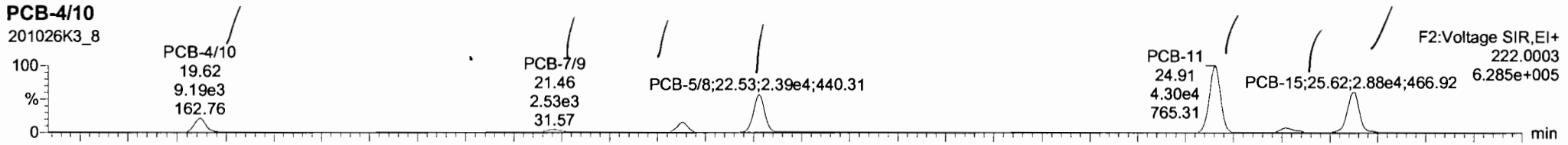
**PFK1**



Dataset: Untitled

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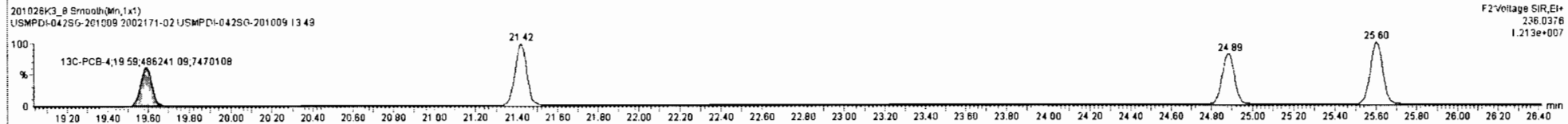
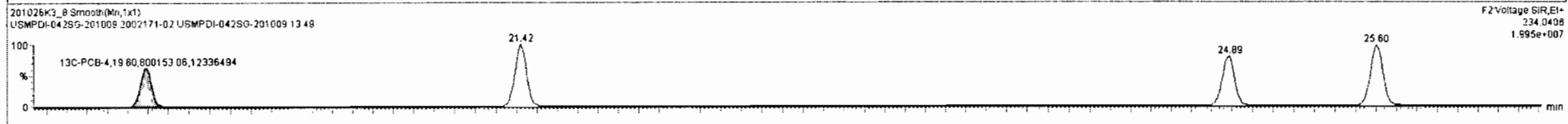
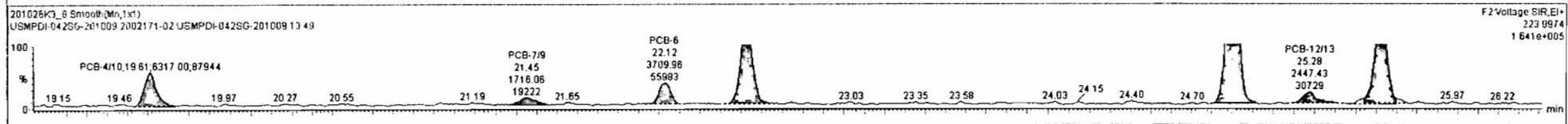
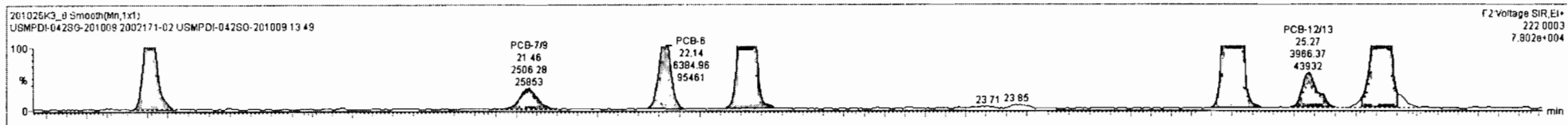
Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009





#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
218	218 13C-PCB-182	4.64e5	0.47	NO	1.0000	5.025	46.50	46.51	0.000	0.000	NO	1990	100	1.77	
219	219 13C-PCB-205	5.94e5	0.92	NO	1.0000	5.025	55.01	55.03	1.000	0.000	NO	1990	100	2.06	
220	220 13C-PCB-79	1.33e6	0.81	NO	1.0689	5.025	37.88	37.88	1.030	1.030	NO	1848	92.8	1.13	
221	221 13C-PCB-178	4.15e5	0.46	NO	0.7865	5.025	45.97	45.97	0.988	0.988	NO	1562	78.5	1.56	
222	222 13C-PCB-79	1.33e6	0.81	NO	1.0821	5.025	37.87	37.88	0.968	0.968	NO	1718	86.3	1.06	
223	223 13C-PCB-178	4.15e5	0.46	NO	1.0508	5.025	45.96	45.97	0.923	0.923	NO	1654	83.1	1.58	
224	224 Total Mono-PCBs				1.1665	5.025	0.00		0.000		NO	28.38		0.896	28.38
225	225 Total Di-PCBs				1.0537	5.025	0.00		0.000		NO	196.6		4.02	196.6

#	Name	Pred.RT	RT	wt Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
4	PCB-4/10	19.88	19.82	9.248e3	6.317e3	1.580	1.46	NO	19.293	19.293
5	PCB-7/9	21.48	21.46	2.505e3	1.716e3	1.560	1.46	NO	4.2173	4.2173
6	PCB-6	22.13	22.14	6.385e3	3.710e3	1.560	1.72	NO	9.4578	9.4578
7	PCB-5/8	22.54	22.53	2.388e4	1.492e4	1.560	1.60	NO	37.492	37.492
8	PCB-11	24.91	24.91	4.301e4	2.785e4	1.560	1.54	NO	70.570	70.570
10	PCB-12/13	25.34	25.27	3.966e3	2.447e3	1.560	1.62	NO	7.0080	7.0080
11	PCB-15	25.63	25.62	2.773e4	1.707e4	1.560	1.62	NO	48.561	48.561

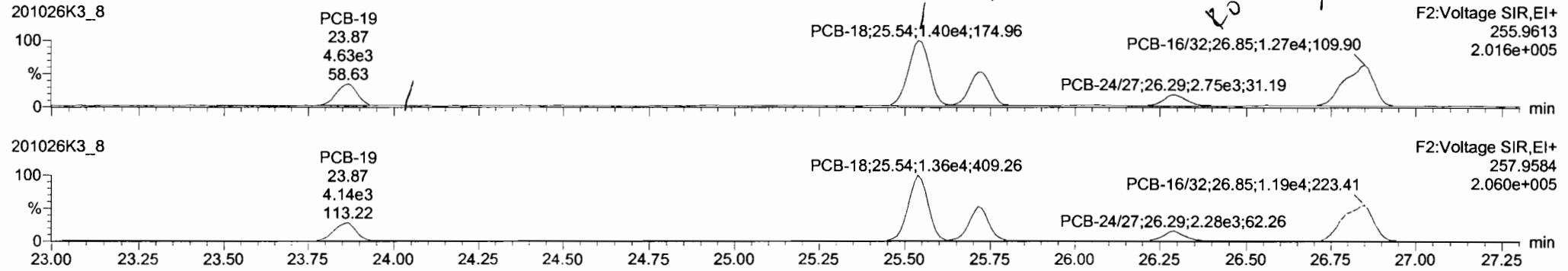


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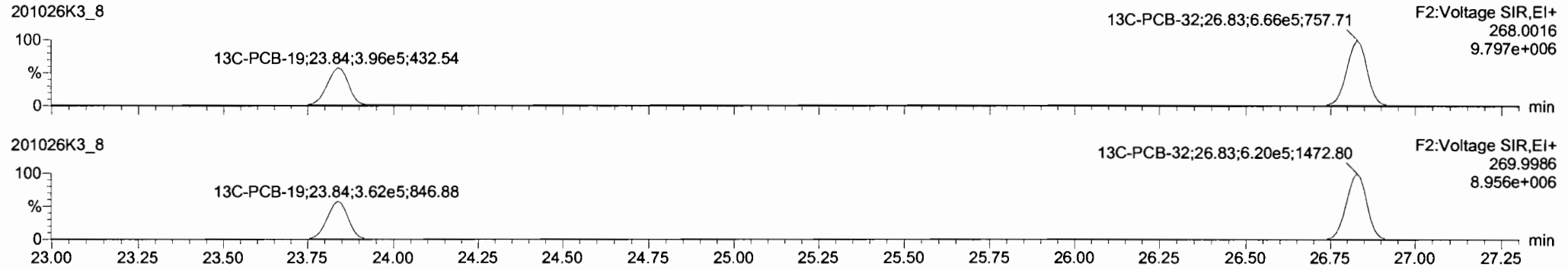
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

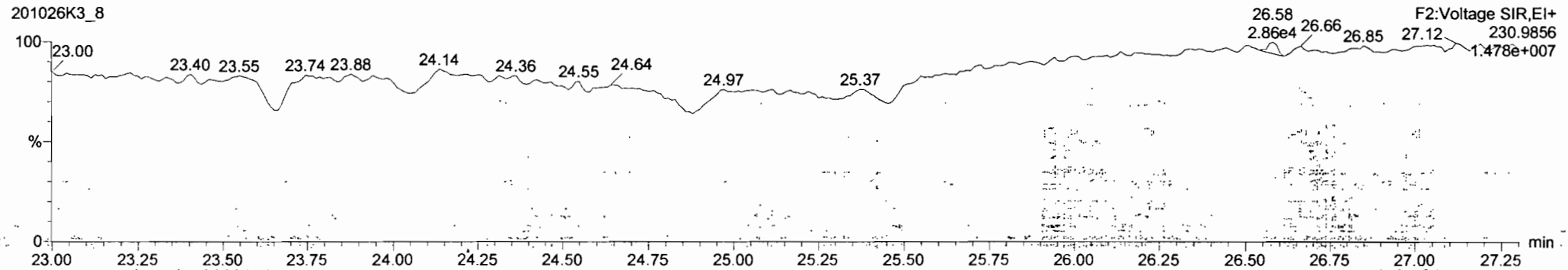
**PCB-19**



**13C-PCB-19**



**PFK2b**



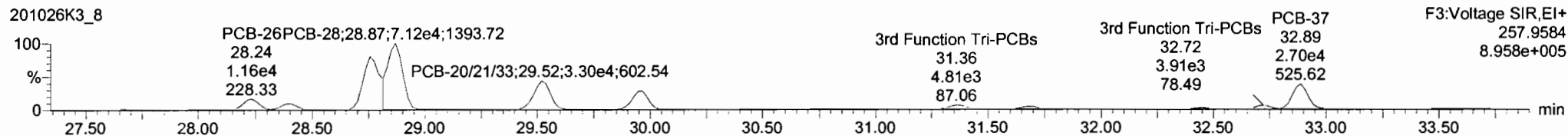
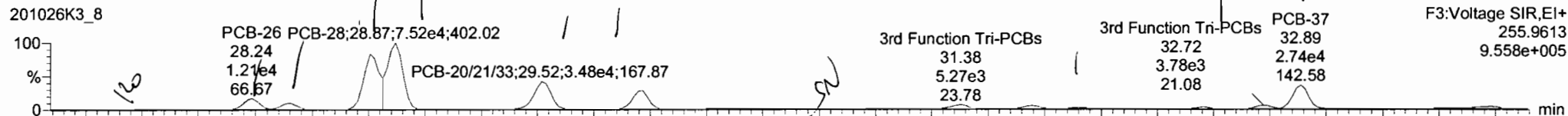
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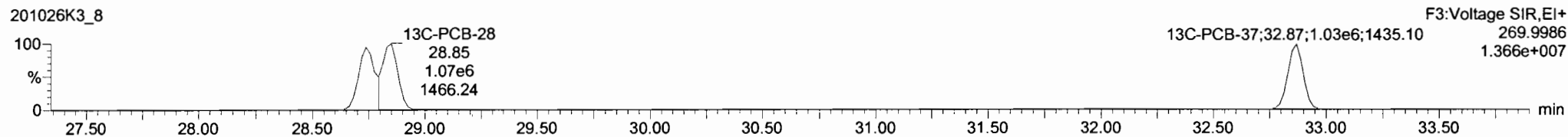
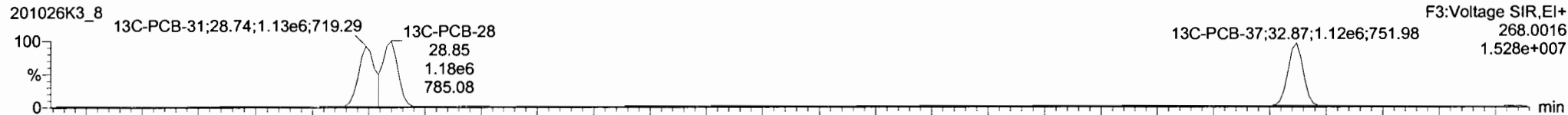
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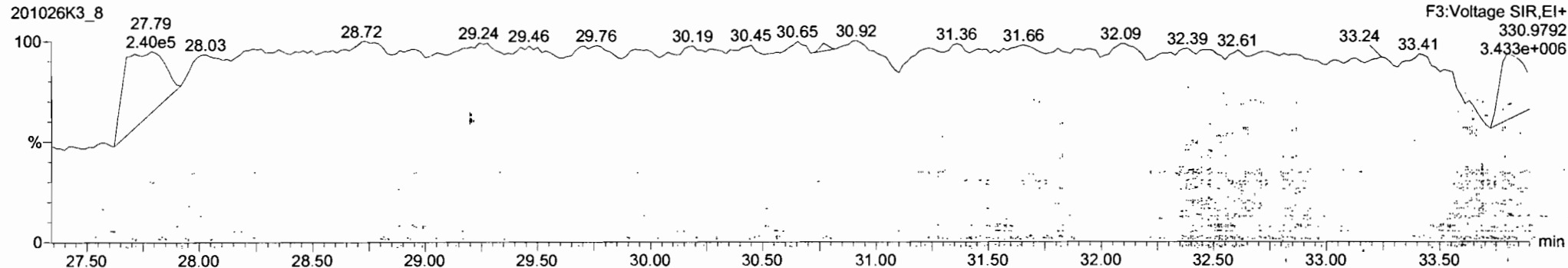
**PCB-34**



**13C-PCB-28**

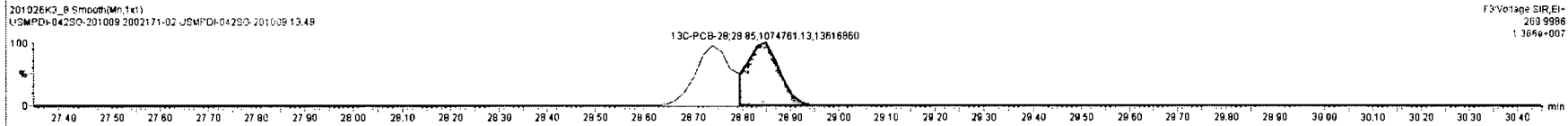
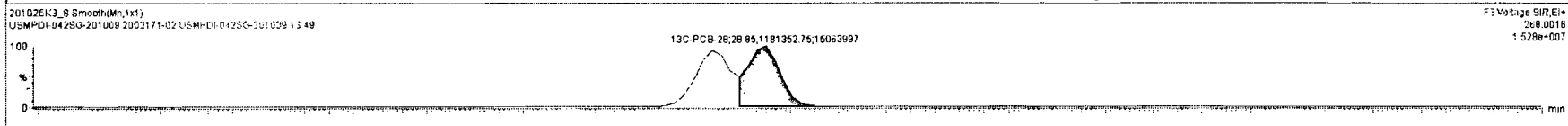
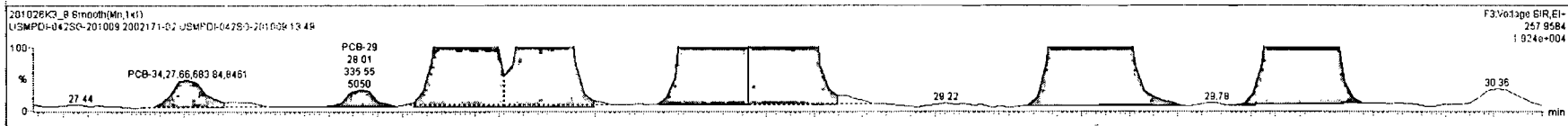
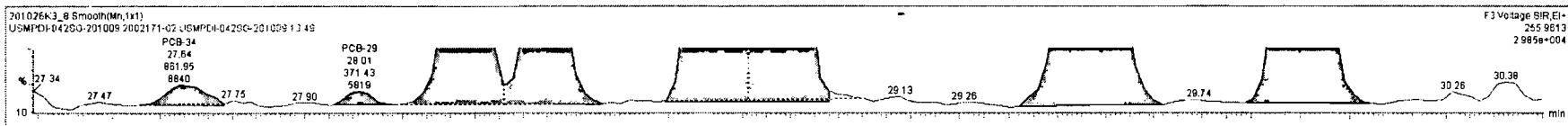


**PFK3d**



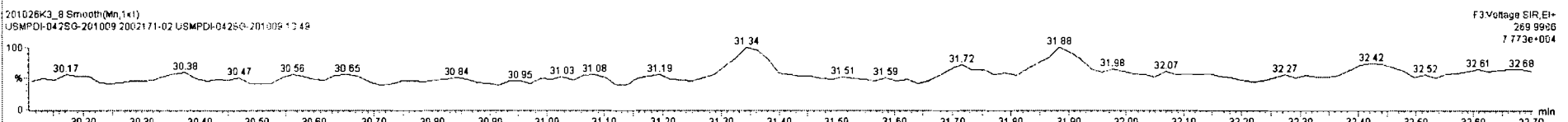
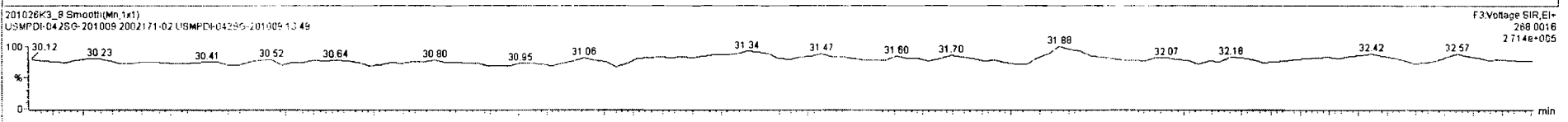
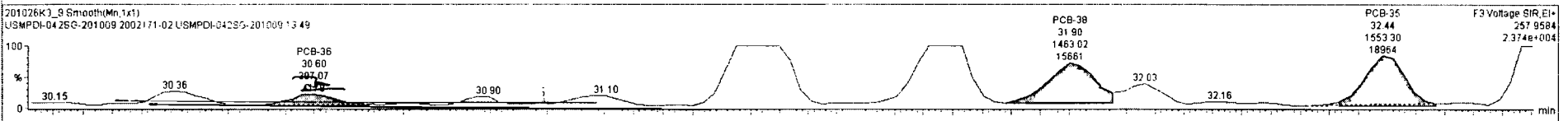
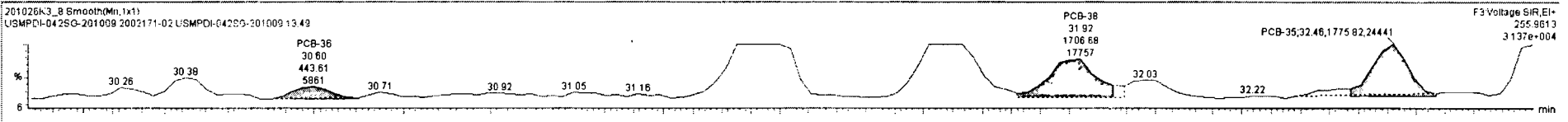
#	Name	Resp	RA	n/y	RRF	wt/Avl	Pred RT	RT	Pred_R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
226	226 2nd Function Tri-PCBs				1.0807	5.025	0.00		0.000		NO	143.7	2.46	150.3	
227	227 3rd Function Tri-PCBs				0.9828	5.025	0.00		0.000		NO	422.4	6.01	423.7	
228	228 Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	144.7	8.49	147.4	
229	229 3rd Function Penta-PCBs				1.3157	5.025	0.00		0.000		NO	1629	12.5	1696	
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.4	2.52	131.0	
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	560.5	4.06	560.6	
232	232 4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1520	9.79	1530	
233	233 Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1246	9.83	1258	

#	Name	Pred RT	RT	Int Resp	#2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	18 PCB-34	27.68	27.64	8.619e2	6.838e2	1.040	1.26	YES	1.3014	0.00000
2	20 PCB-29	28.01	28.01	3.714e2	3.355e2	1.040	1.11	NO	0.69846	0.69846
3	21 PCB-26	28.24	28.24	1.204e4	1.168e4	1.040	1.03	NO	22.172	22.172
4	22 PCB-25	28.39	28.40	7.559e3	7.251e3	1.040	1.04	NO	13.752	13.752
5	23 PCB-31	28.77	28.76	6.210e4	5.806e4	1.040	1.07	NO	102.35	102.35
6	24 PCB-28	28.87	28.87	7.526e4	7.112e4	1.040	1.06	NO	125.97	125.97
7	25 PCB-202103	29.51	29.52	3.478e4	3.303e4	1.040	1.05	NO	63.540	63.540



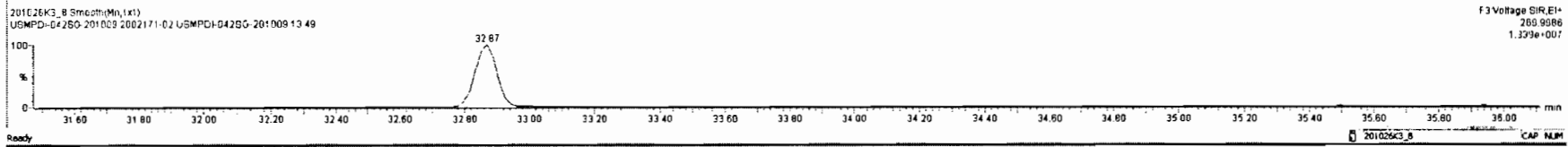
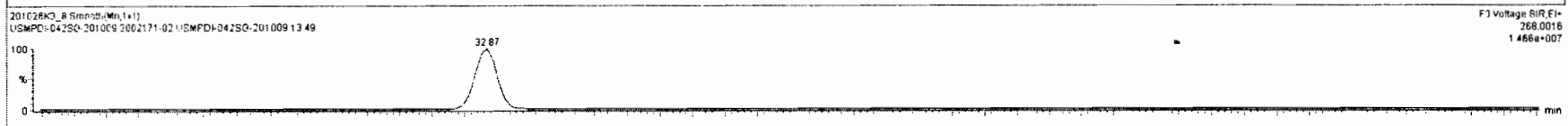
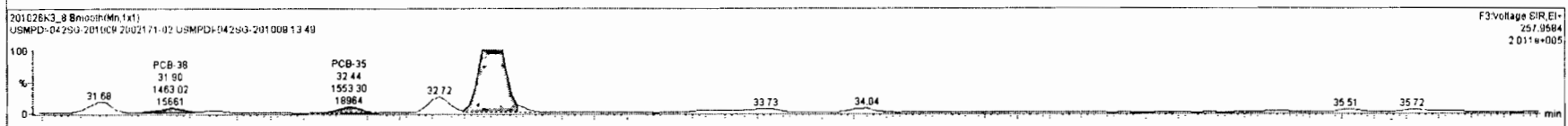
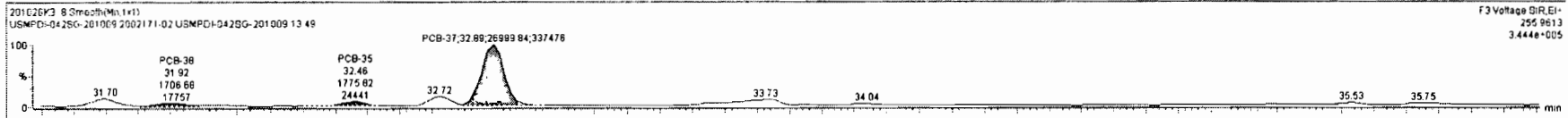
#	Name	Resp	RA	n/y	RRF	wVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
226	2nd Function Tri-PCBs				1.0907	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	3rd Function Tri-PCBs				0.9929	5.025	0.00		0.000		NO	422.9		6.01	424.2
228	Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	1447		8.49	1474
229	3rd Function Penta-PCBs				1.3157	5.025	0.00		0.000		NO	1829		12.9	1896
230	4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.4		2.92	131.0
231	3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	560.5		4.08	580.8
232	4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1520		9.79	1530
233	Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1246		8.83	1258

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	18 PCB-34	27.68	27.84	8.619e2	6.836e2	1.040	1.26	YES	1.3014	0.00000
2	20 PCB-29	28.01	28.01	3.714e2	3.355e2	1.040	1.11	NO	0.69846	0.69846
3	21 PCB-26	28.24	28.24	1.204e4	1.168e4	1.040	1.03	NO	22.172	22.172
4	22 PCB-25	28.39	28.40	7.558e3	7.251e3	1.040	1.04	NO	13.752	13.752
5	23 PCB-31	28.77	28.76	6.219e4	5.806e4	1.040	1.07	NO	102.35	102.35
6	24 PCB-28	28.87	28.87	7.526e4	7.112e4	1.040	1.06	NO	125.97	125.97
7	25 PCB-20/21/33	29.51	29.52	3.478e4	3.303e4	1.040	1.05	NO	63.540	63.540



#	Name	Resp	RA	RI	RF	retVol	Prod RT	RT	Prod.R	RRT	RRT Fnd	Conc.	%Rec	DL	EMPC
226	2nd Function Tri-PCBs				1.0807	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	3rd Function Tri-PCBs				0.9626	5.025	0.00		0.000		NO	422.9		8.01	424.2
228	Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	144.7		8.49	147.4
229	3rd Function Penta-PCBs				1.3157	5.025	0.00		0.000		NO	182.9		12.9	189.6
230	4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.4		2.92	131.0
231	3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	560.5		4.06	580.8
232	4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1520		9.79	1530
233	Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1246.1		9.83	1258

#	Name	Prod RT	RT	nt Resp	nt Resp	1 <sup>st</sup> Ratio (Pred)	RA	RI	EMPC	Conc.
1	18 PCB-34	27.66	27.64	8.619e2	6.836e2	1.040	1.26	YES	1.3014	0.00000
2	20 PCB-29	28.01	28.01	3.714e2	3.355e2	1.040	1.11	NO	0.69846	0.69846
3	21 PCB-26	28.24	28.24	1.204e4	1.168e4	1.040	1.03	NO	22.172	22.172
4	22 PCB-25	28.35	28.40	7.558e3	7.251e3	1.040	1.04	NO	13.752	13.752
5	23 PCB-31	28.77	28.76	6.218e4	5.805e4	1.040	1.07	NO	102.35	102.35
6	24 PCB-28	28.87	28.87	7.526e4	7.112e4	1.040	1.06	NO	125.97	125.97
7	25 PCB-202103	29.51	29.52	3.478e4	3.303e4	1.040	1.05	NO	63.540	63.540

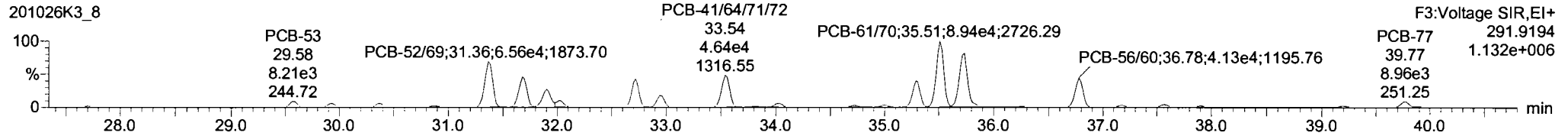
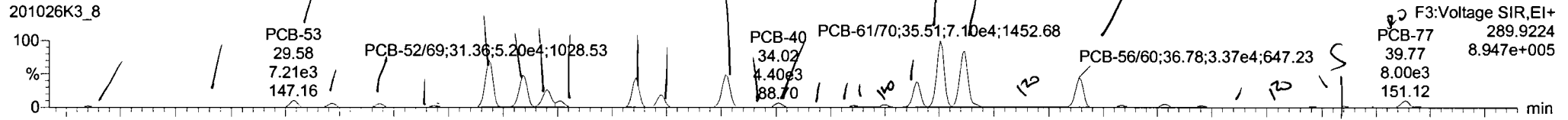


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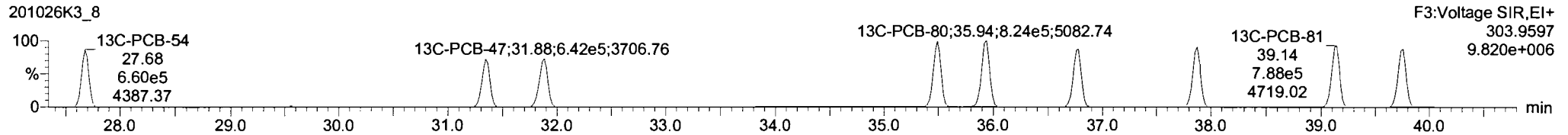
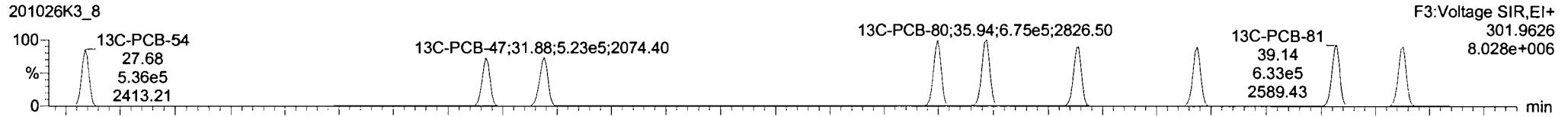
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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

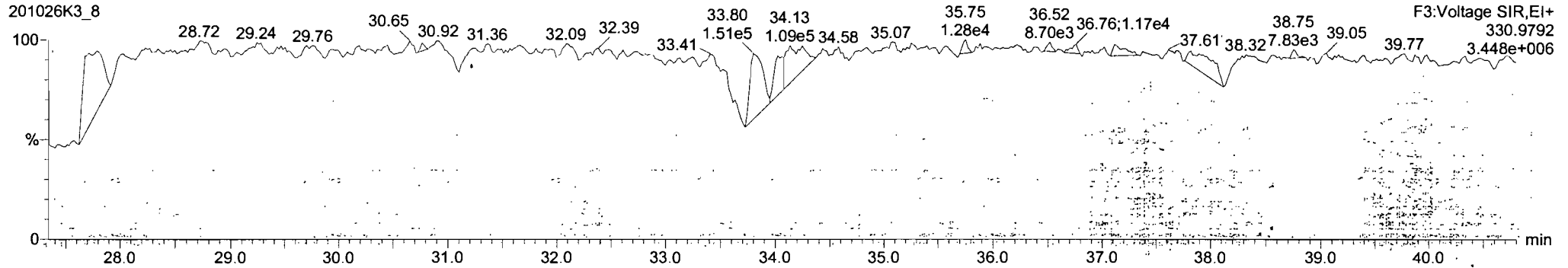
**PCB-54**



**13C-PCB-54**



**PFK3a**



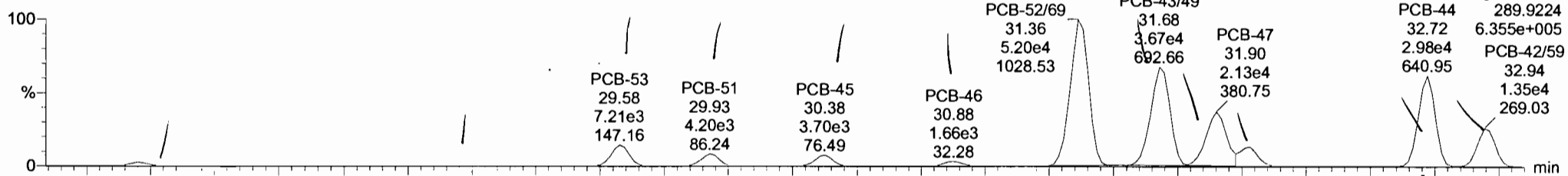
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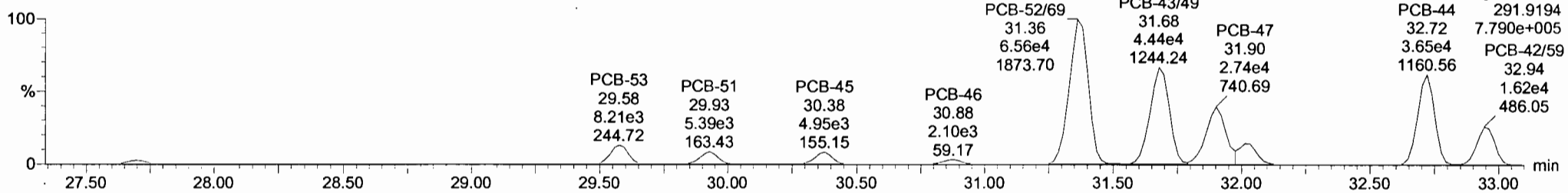
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**PCB-50**

201026K3\_8

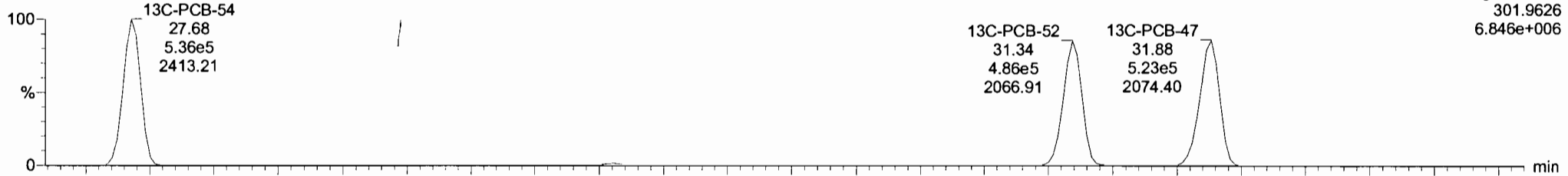


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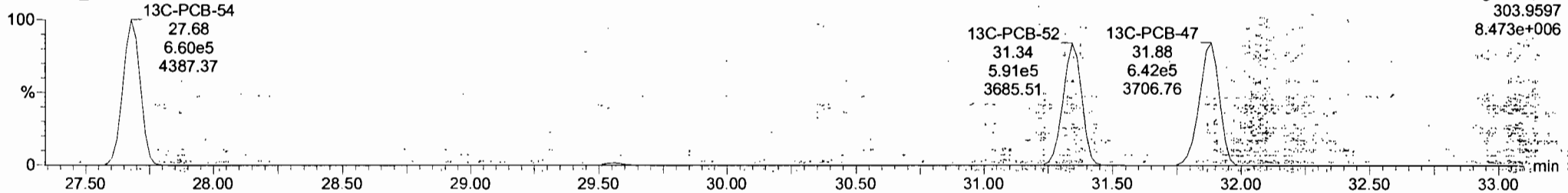


**13C-PCB-52**

201026K3\_8



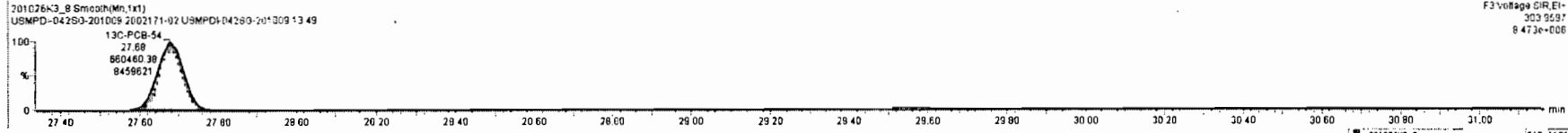
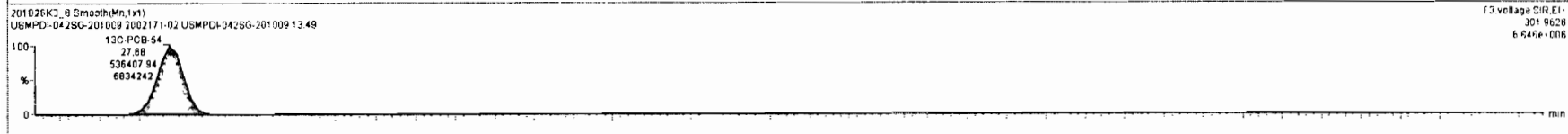
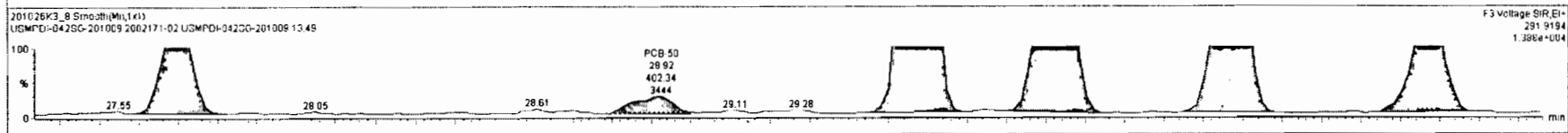
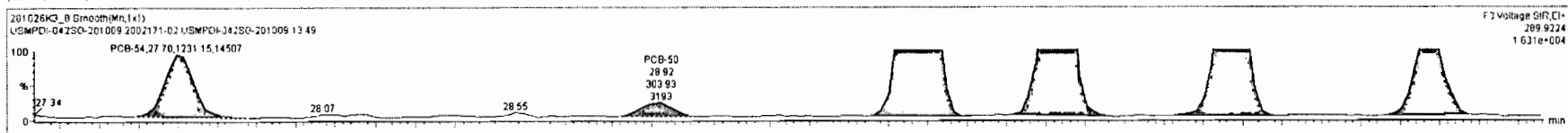
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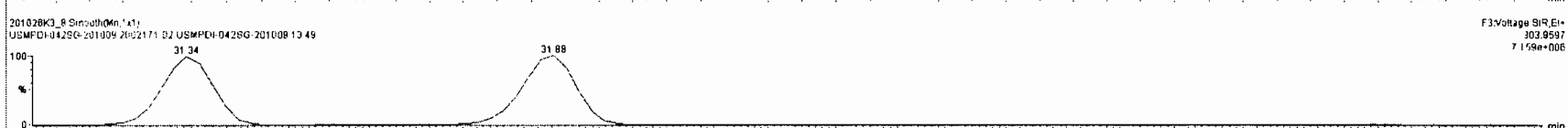
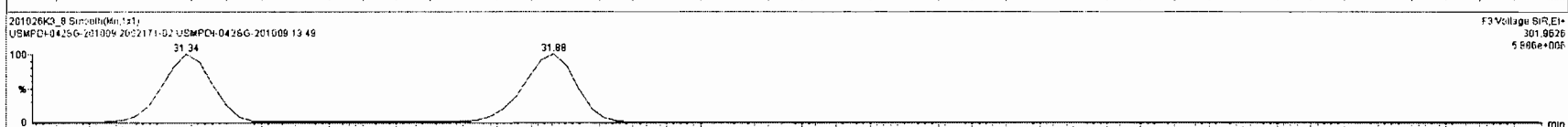
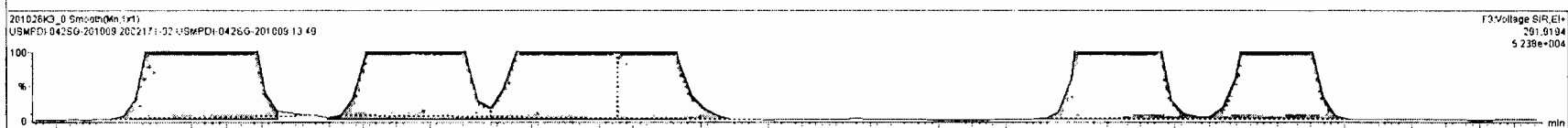
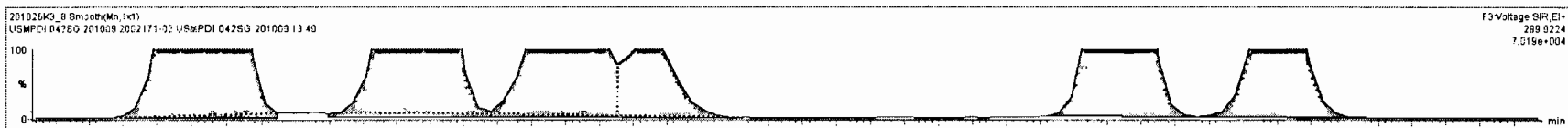
#	Name	Resp	RA	n/y	RRF	wt/rd	Pred.RT	RT	Pred.R	RRT	RRT Fnl	Conc	%Rec	DL	EMPC
228	226	2nd Function Tri-PCBs			1.067	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	227	3rd Function Tri-PCBs			0.9828	5.025	0.00		0.000		NO	422.1		6.01	423.4
228	228	Total Tetra-PCBs			1.0778	5.025	0.00		0.000		NO	144.7		8.49	147.4
228	229	3rd Function Penta-PCBs			1.3157	5.025	0.00		0.000		NO	1829		12.9	1895
230	230	4th Function Penta-PCBs			1.0735	5.025	0.00		0.000		NO	127.4		2.92	131.0
231	231	3rd Function Hexa-PCBs			0.9505	5.025	0.00		0.000		NO	590.5		4.08	590.8

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.70	27.70	1.231e3	1.702e3	0.770	0.72	NO	4.5164	4.5164
2	33 PCB-50	28.91	28.92	3.039e2	4.023e2	0.770	0.76	NO	1.3351	1.3351
3	34 PCB-53	28.58	28.58	7.211e3	8.207e3	0.770	0.88	NO	28.575	28.575
4	35 PCB-51	28.93	28.93	4.196e3	5.389e3	0.770	0.78	NO	18.620	18.620
5	36 PCB-45	30.38	30.38	3.898e3	4.951e3	0.770	0.75	NO	18.607	18.607
6	37 PCB-46	30.88	30.88	1.663e3	2.102e3	0.770	0.79	NO	8.3712	8.3712
7	38 PCB-52/69	31.36	31.36	5.255e4	6.579e4	0.770	0.80	NO	187.40	187.40



#	Name	Resp	RA	RV	RF	Wt/Vol	Prod RT	RT	Prod R.	RFI	RRT Fail	Conc.	%Rec	DL	EMPC
226	2nd Function Tri-PCBs				1.0607	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	3rd Function Tri-PCBs				0.9626	5.025	0.00		0.000		NO	422.1		6.01	423.4
228	Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	1447		6.49	1474
229	3rd Function Penta-PCBs				1.3157	5.025	0.00		0.000		NO	1829		12.9	1896
230	4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.4		2.92	131.0
231	3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	560.5		4.06	560.8

#	Name	Prod RT	RT	RI Resp	RI Ratio	1 <sup>st</sup> Ratio (Prod)	RA	RV	EMPC	Conc.
1	33 PCB-54	27.70	27.70	1.231e3	1.702e3	0.770	0.72	NO	4.5164	4.5164
2	33 PCB-50	28.91	28.92	3.039e2	4.023e2	0.770	0.76	NO	1.3351	1.3351
3	34 PCB-53	29.58	29.58	7.211e3	8.207e3	0.770	0.86	NO	28.575	28.575
4	35 PCB-51	29.93	29.93	4.196e3	5.388e3	0.770	0.78	NO	16.620	16.620
5	36 PCB-45	30.38	30.38	3.696e3	4.951e3	0.770	0.75	NO	18.607	18.607
6	37 PCB-46	30.88	30.88	1.663e3	2.102e3	0.770	0.79	NO	8.3712	8.3712
7	38 PCB-52/68	31.38	31.38	5.255e4	6.579e4	0.770	0.80	NO	187.40	187.40

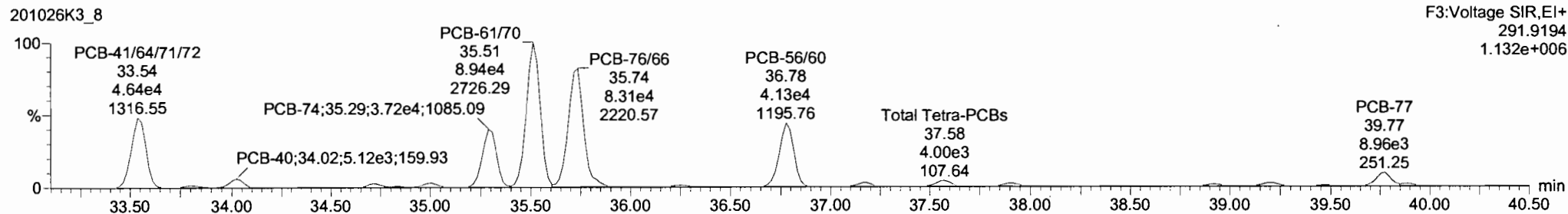
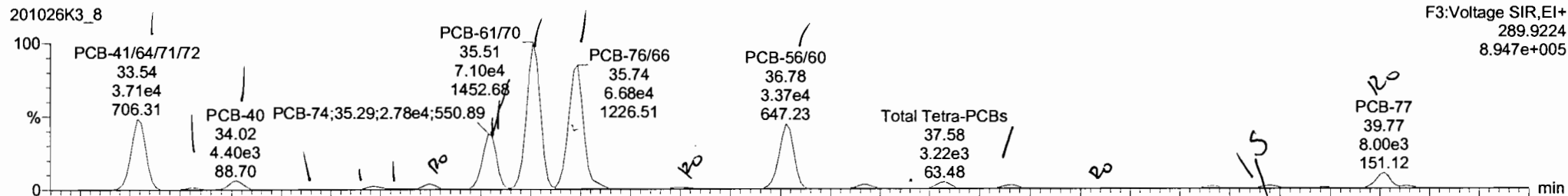


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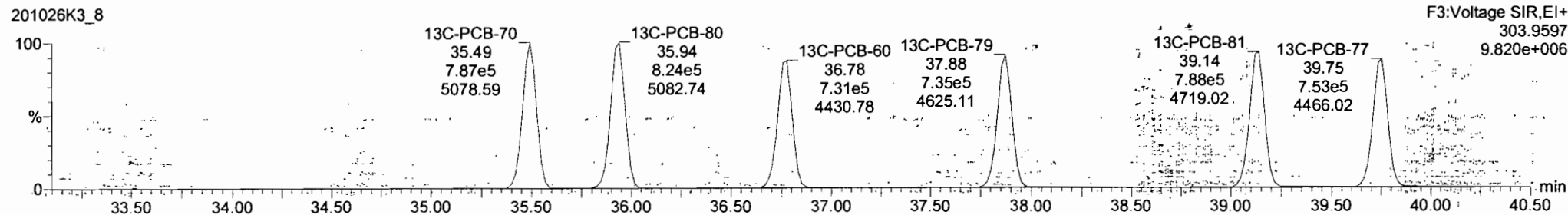
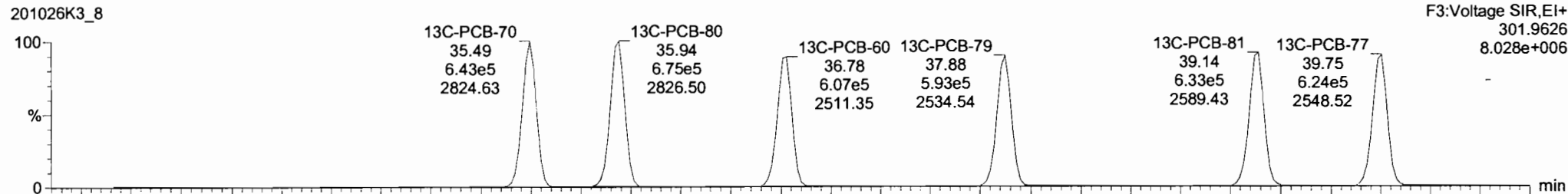
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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

**PCB-68**

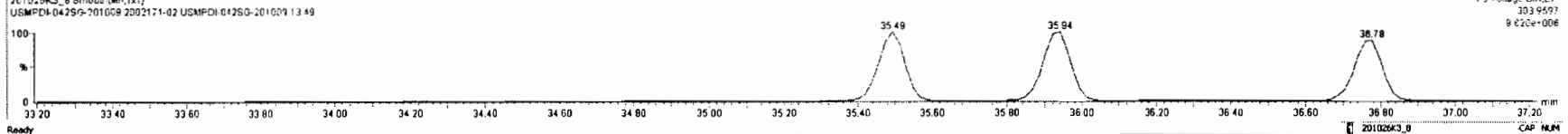
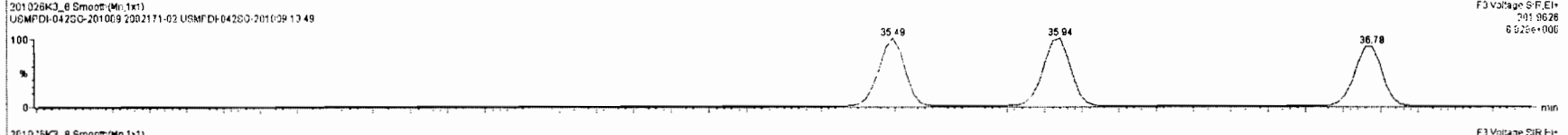
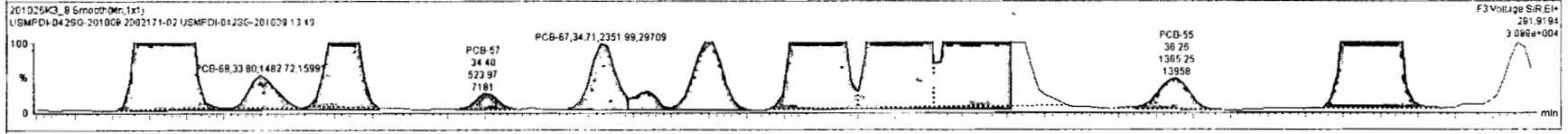
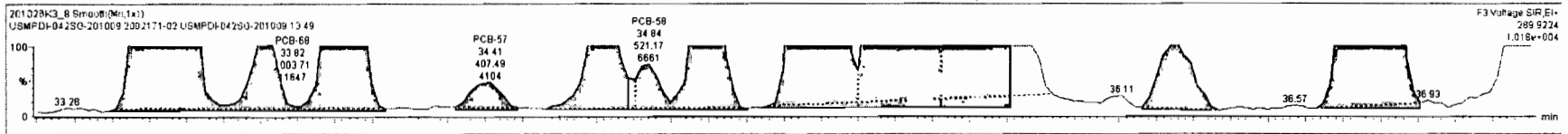


**13C-PCB-60**



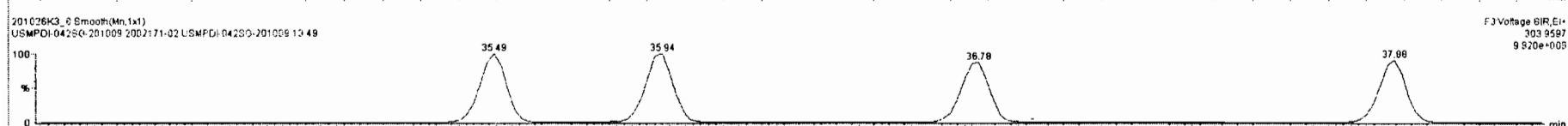
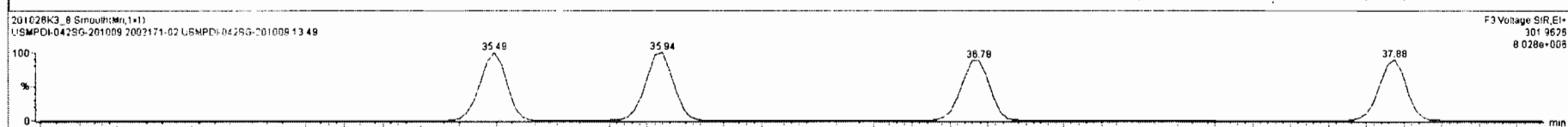
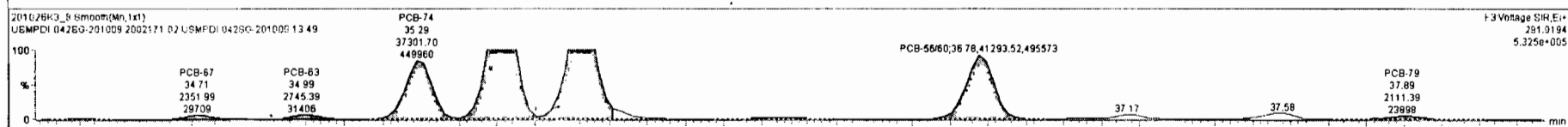
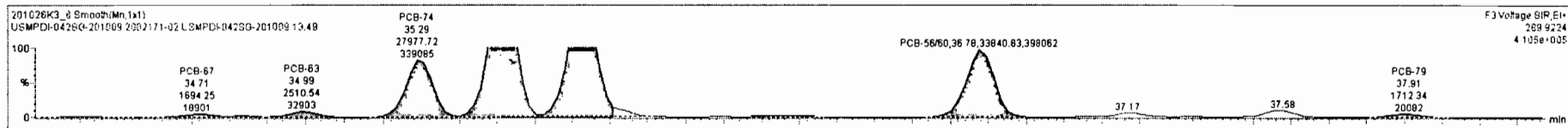
#	Name	Resp	RA	n/y	REF	WAVG	Pred RT	RT	Pred R	RRT	RRT Fal	Conc	%Rec	DL	EMPC
226	226 2nd Function Tri-PCBs				1.0007	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	227 3rd Function Tri-PCBs				0.9828	5.025	0.00		0.000		NO	422.1		6.01	423.4
228	228 Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	1447		8.49	1474
229	229 3rd Function Penta-PCBs				1.3157	5.025	0.00		0.000		NO	1829		12.9	1896
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.4		2.92	131.0
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	560.5		4.08	580.8

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
17	51 PCB-67	34.71	34.71	1.694e3	2.352e3	0.770	0.72	NO	5.1917	5.1917
18	52 PCB-58	34.84	34.84	5.212e2	6.050e2	0.770	0.86	NO	1.3011	1.3011
19	53 PCB-63	34.99	34.99	2.511e3	2.745e3	0.770	0.91	YES	6.3061	0.00000
20	54 PCB-74	35.29	35.29	2.796e4	3.730e4	0.770	0.75	NO	76.622	76.622
21	55 PCB-61/70	35.51	35.51	7.123e4	8.565e4	0.770	0.80	NO	212.15	292.15
22	56 PCB-76/66	36.70	36.74	6.466e4	8.026e4	0.770	0.81	NO	173.48	173.48
23	58 PCB-55	36.30	36.26	1.045e3	1.365e3	0.770	0.77	NO	2.7379	2.7379



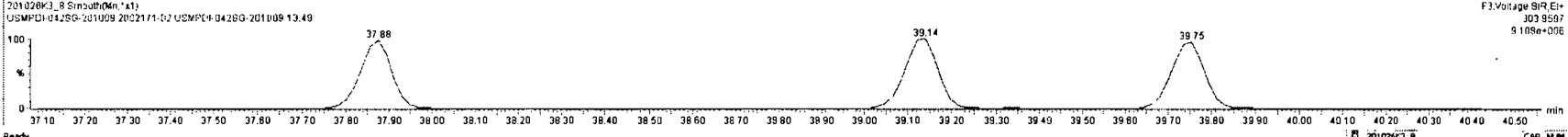
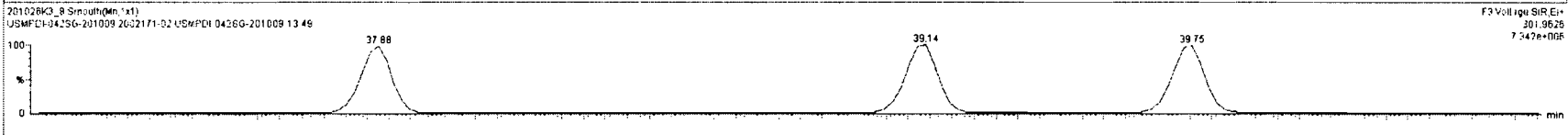
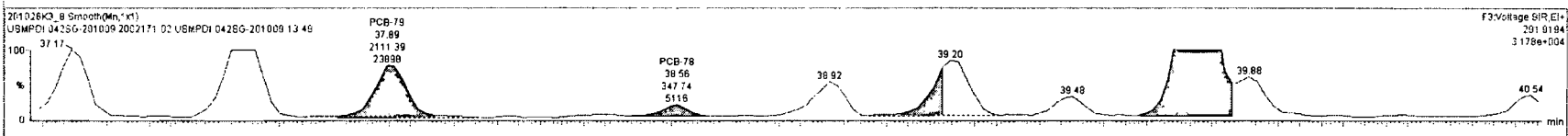
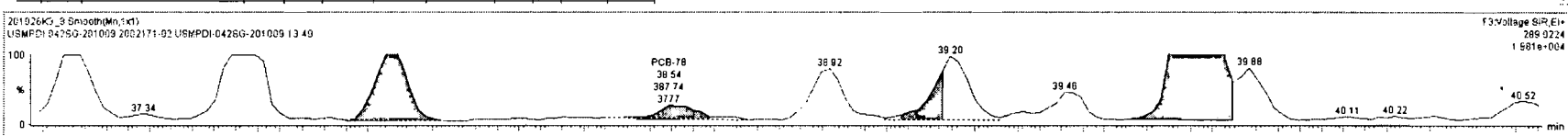
#	Name	Resp	RA	nly	RRT	wAval	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
226	226 2nd Function Tri-PCBs				1.0807	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	227 3rd Function Tri-PCBs				0.9828	5.025	0.00		0.000		NO	422.1		6.01	423.4
228	228 Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	1447		8.48	1474
229	229 3rd Function Penta-PCBs				1.3157	5.025	0.00		0.000		NO	1829		12.9	1896
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.4		2.92	131.0
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	560.5		4.08	580.8

#	Name	Pred RT	RT	n1 Resp	n2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc
17	51 PCB-67	34.71	34.71	1.694e3	2.352e3	0.770	0.72	NO	5.1917	5.1917
18	52 PCB-68	34.84	34.84	5.212e2	6.050e2	0.770	0.86	NO	1.3011	1.3011
19	53 PCB-63	34.99	34.99	2.511e3	2.745e3	0.770	0.91	YES	6.3061	0.00000
20	54 PCB-74	35.29	35.29	2.789e4	3.730e4	0.770	0.75	NO	76.622	76.622
21	55 PCB-6170	35.51	35.51	7.123e4	8.956e4	0.770	0.80	NO	212.15	212.15
22	56 PCB-7686	35.70	35.74	6.488e4	8.036e4	0.770	0.81	NO	173.48	173.48
23	58 PCB-55	36.30	36.26	1.045e3	1.365e3	0.770	0.77	NO	2.7379	2.7379



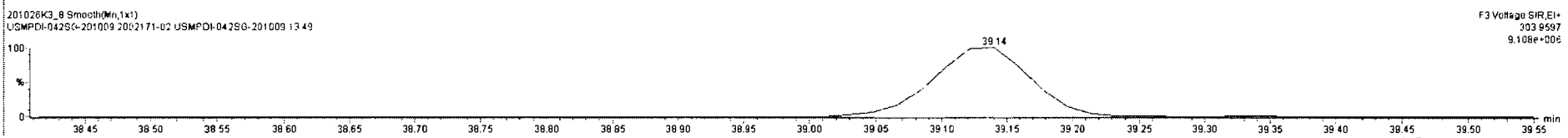
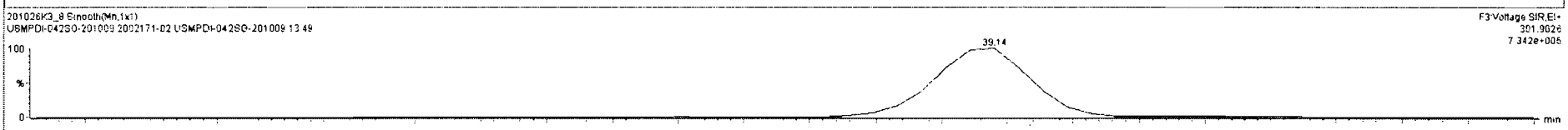
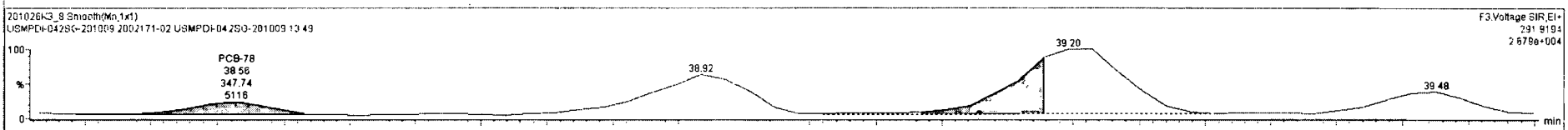
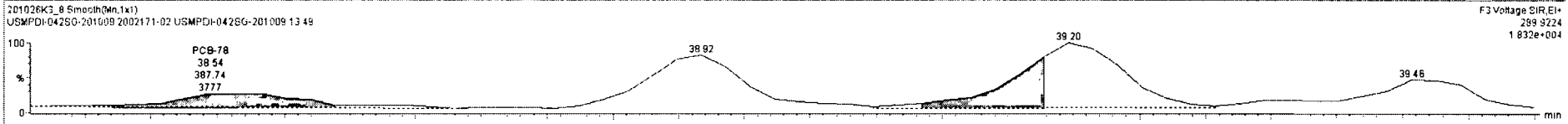
#	Name	Resp	RA	nV	RRF	wtVol	Prod RT	RT	Prod R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
226	2nd Function Tri-PCBs				1.0807	5.025	0.00	0.000	0.000		NO	143.7		2.46	150.3
227	3rd Function Tri-PCBs				0.9828	5.025	0.00	0.000	0.000		NO	422.1		6.01	423.4
228	Total Tetra-PCBs				1.0778	5.025	0.00	0.000	0.000		NO	144.7		8.49	147.4
229	3rd Function Penta-PCBs				1.3157	5.025	0.00	0.000	0.000		NO	162.9		12.9	189.6
230	4th Function Penta-PCBs				1.0735	5.025	0.00	0.000	0.000		NO	127.4		2.32	131.0
231	3rd Function Hexa-PCBs				0.9505	5.025	0.00	0.000	0.000		NO	560.5		4.08	580.8

#	Name	Prod RT	RT	ml Resp	ng Resp	1* Ratio (Prod)	RA	nV	EMPC	Conc.
17	51 PCB-67	34.71	34.71	1.694e3	2.352e3	0.770	0.72	NO	5.1917	5.1917
18	52 PCB-58	34.84	34.84	5.212e2	6.050e2	0.770	0.86	NO	1.3011	1.3011
19	53 PCB-63	34.99	34.99	2.511e3	2.745e3	0.770	0.91	YES	6.3081	0.00000
20	54 PCB-74	35.29	35.29	2.798e4	3.730e4	0.770	0.75	NO	76.622	76.622
21	55 PCB-61/70	35.51	35.51	7.123e4	8.956e4	0.770	0.80	NO	212.15	212.15
22	56 PCB-75/66	35.70	35.74	6.486e4	8.036e4	0.770	0.81	NO	173.48	173.48
23	58 PCB-55	36.30	36.28	1.045e3	1.365e3	0.770	0.77	NO	2.7379	2.7379



#	Name	Resp	RA	nV	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Tol	Conc	%Rec	DL	EMPC
226	226 2nd Function Tri-PCBs				1.0607	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	227 3rd Function Tri-PCBs				0.9828	5.025	0.00		0.000		NO	422.1		6.01	423.4
228	228 Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	144.7		8.49	147.4
229	229 3rd Function Penta-PCBs				1.3157	5.025	0.00		0.000		NO	182.9		12.9	189.6
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.4		2.92	131.0
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	560.5		4.08	580.8

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc.
17	51 PCB-67	34.71	34.71	1.694e3	2.352e3	0.770	0.72	NO	5.1917	5.1917
18	52 PCB-68	34.84	34.84	5.212e2	6.050e2	0.770	0.86	NO	1.3011	1.3011
19	53 PCB-63	34.99	34.99	2.511e3	2.745e3	0.770	0.91	YES	6.3061	0.00000
20	54 PCB-74	35.29	35.29	2.798e4	3.730e4	0.770	0.75	NO	76.622	76.622
21	55 PCB-61/70	35.51	35.51	7.123e4	8.956e4	0.770	0.80	NO	212.15	212.15
22	56 PCB-76/66	35.70	35.74	6.486e4	8.036e4	0.770	0.81	NO	173.48	173.48
23	58 PCB-55	36.30	36.26	1.045e3	1.365e3	0.770	0.77	NO	2.7379	2.7379

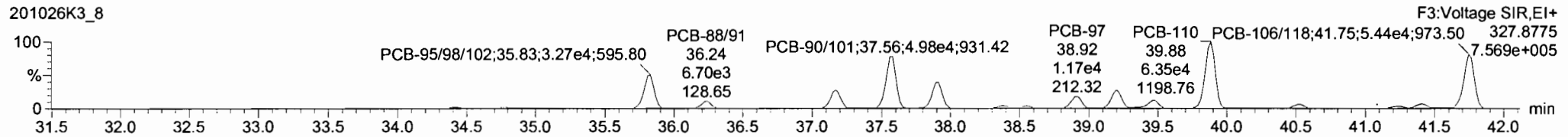
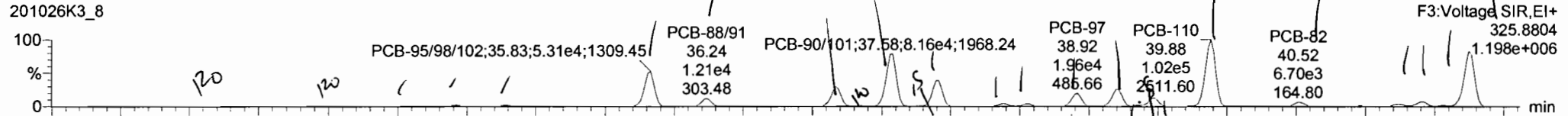


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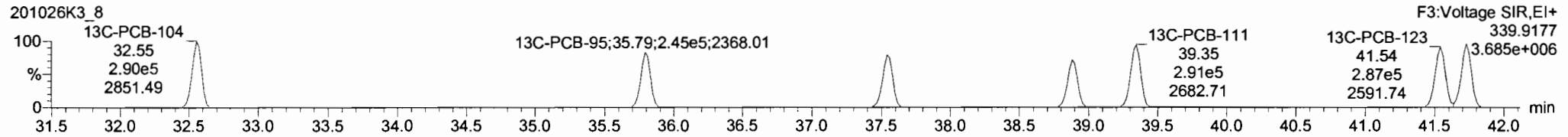
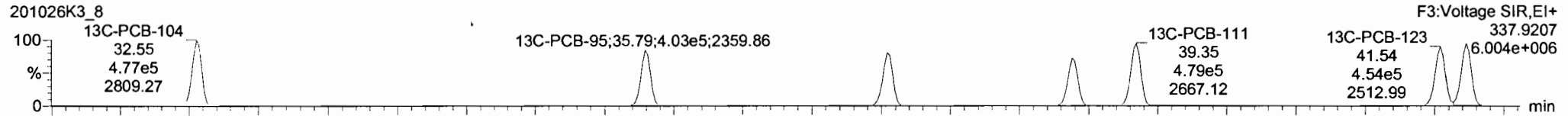
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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

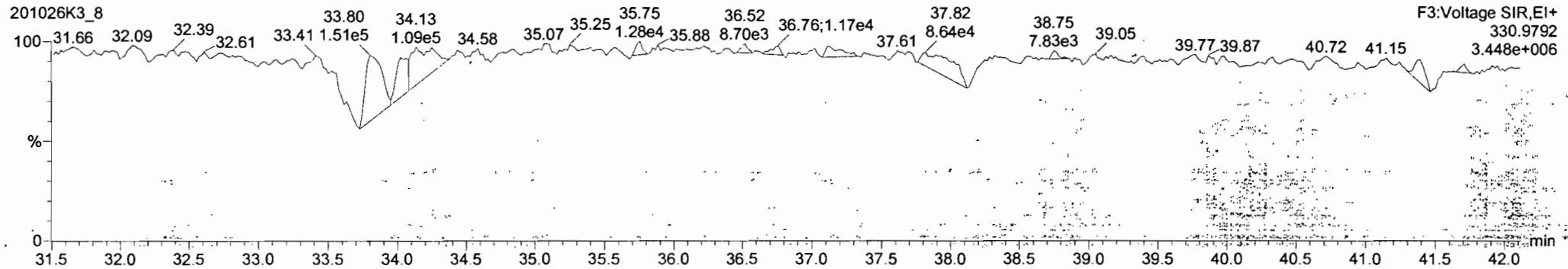
**PCB-104**



**13C-PCB-104**



**PFK3b**





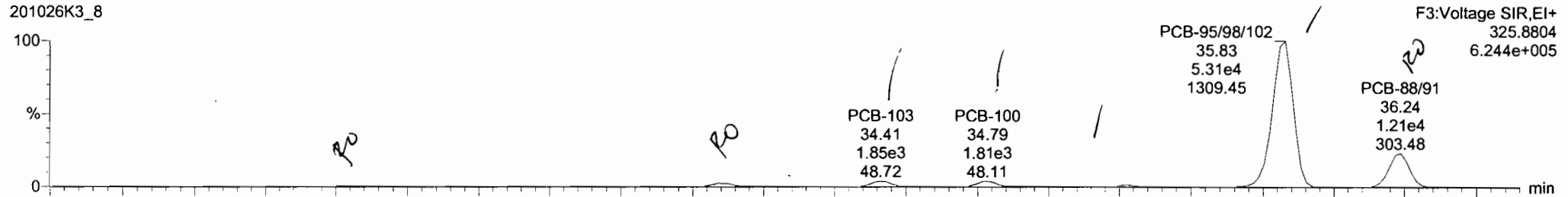
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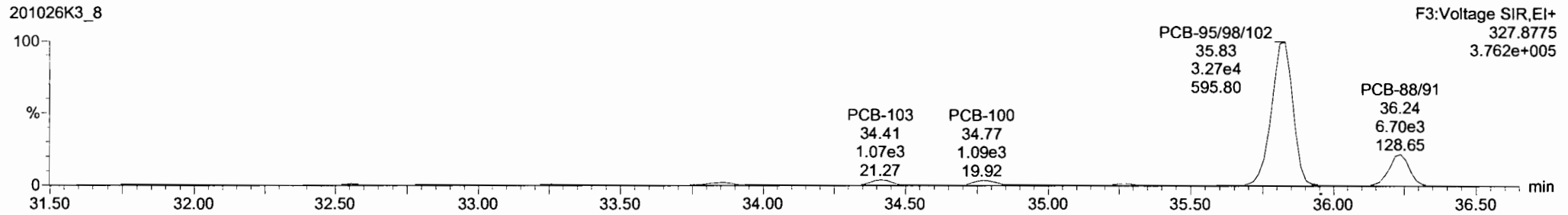
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**PCB-96**

201026K3\_8

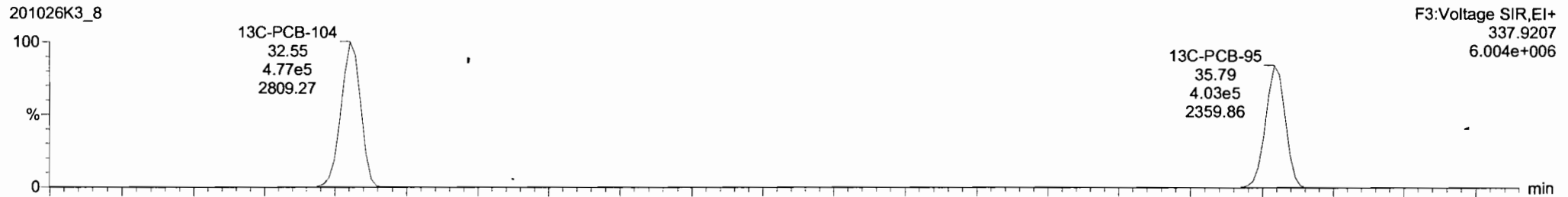


201026K3\_8

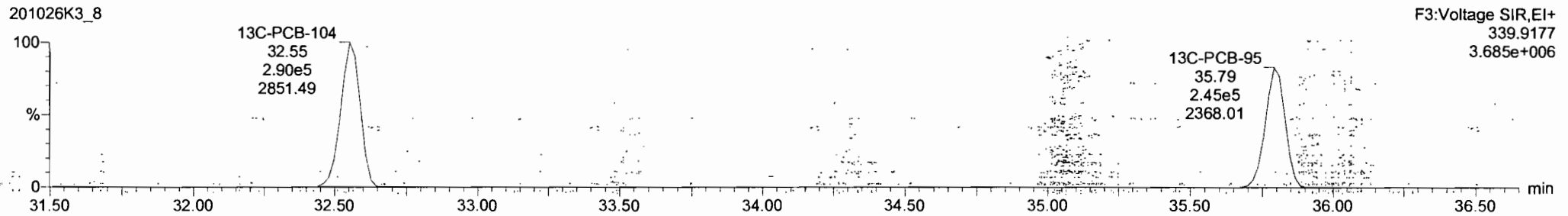


**13C-PCB-95**

201026K3\_8

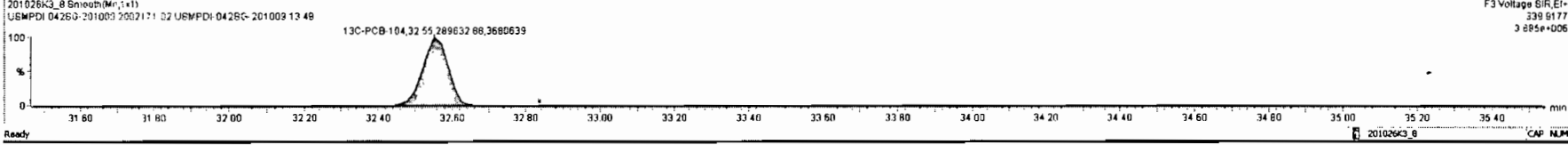
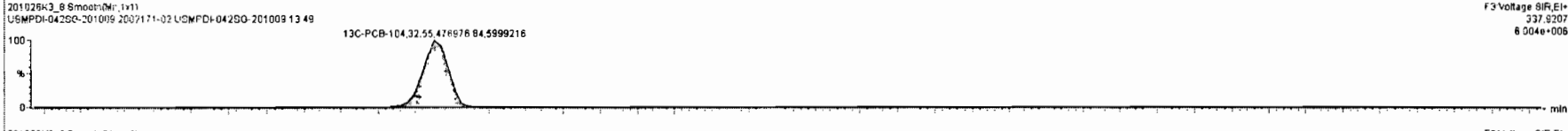
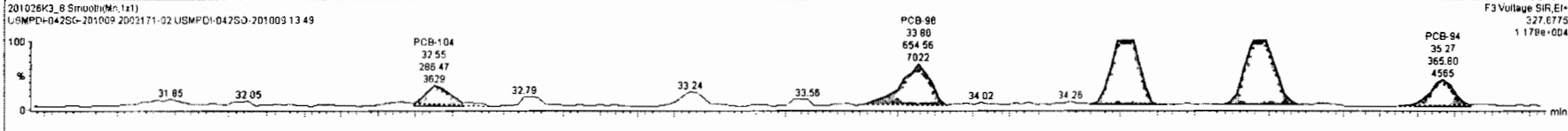
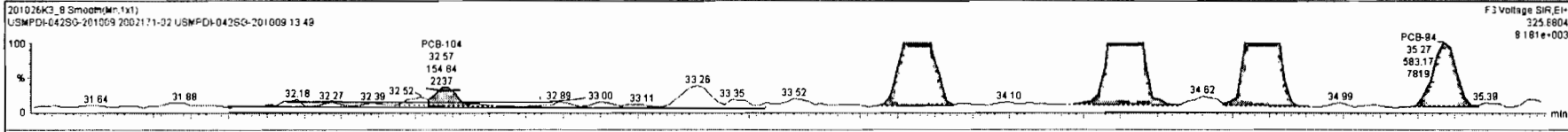


201026K3\_8



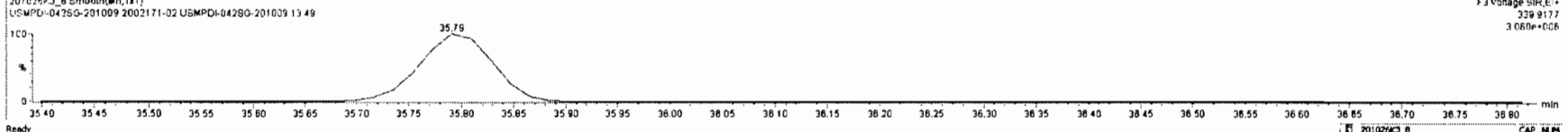
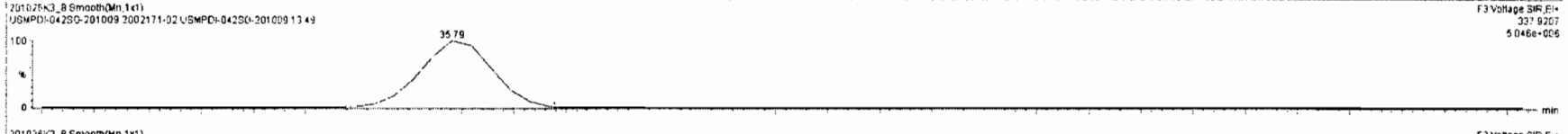
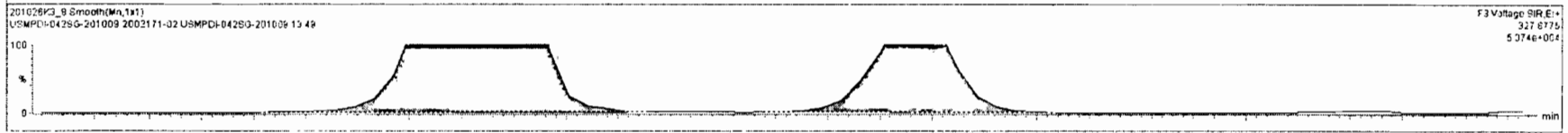
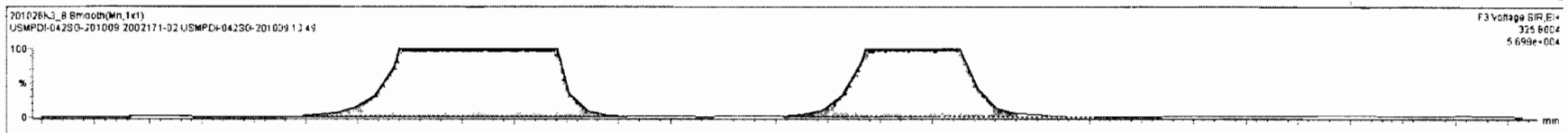
#	Name	Resp	RA	nV	RF	wAve	Pred RT	RT	Pred R	RRT	RST Fail	Conc	%Rec	DL	EMPC
222	222 13C-PCB-79	1.33e5	0.81	NO	1.0021	5.025	37.87	37.88	0.999	0.999	NO	1718	86.3	1.00	
223	223 13C-PCB-178	4.15e5	0.46	NO	1.0508	5.025	45.98	45.97	0.923	0.923	NO	1654	83.1	1.50	
224	224 Total Mono-PCBs				1.1665	5.025	0.00	0.000	0.000	0.000	NO	28.38	0.696	28.38	
225	225 Total Di-PCBs				1.0537	5.025	0.00	0.000	0.000	0.000	NO	196.6	4.02	196.6	
226	226 2nd Function Tri-PCBs				1.0807	5.025	0.00	0.000	0.000	0.000	NO	143.7	2.46	150.3	
227	227 3rd Function Tri-PCBs				0.9828	5.025	0.00	0.000	0.000	0.000	NO	422.1	6.01	423.4	
228	228 Total Tetra-PCBs				1.0778	5.025	0.00	0.000	0.000	0.000	NO	1447	8.49	1474	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	** Ratio (Pred)	RA	nV	EMPC	Conc.
1	64 PCB-104	32.57	32.57	1.548e2	2.865e2	1.560	0.54	YES	0.58800	0.00000
2	65 PCB-96	33.88	33.84	1.195e3	6.546e2	1.560	1.83	YES	3.7700	0.00000
3	66 PCB-103	34.44	34.41	1.837e3	1.083e3	1.560	1.70	NO	8.0930	8.0932
4	67 PCB-100	34.81	34.79	1.799e3	1.095e3	1.560	1.64	NO	7.8780	7.8781
5	68 PCB-94	35.27	35.27	5.832e2	3.658e2	1.560	1.58	NO	3.0730	3.0732
6	69 PCB-95/98/102	35.74	35.83	5.332e4	3.287e4	1.560	1.62	NO	219.89	219.89



#	Name	Resp	RA	n/y	R/R	wtAve	Pred RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
222	13C-PCB-79	1.33e5	0.81	NO	1.0021	5.025	37.87	37.88	0.998	0.968	NO	171.8	86.3	1.06	
223	13C-PCB-178	4.15e5	0.46	NO	1.0508	5.025	45.90	45.97	0.923	0.923	NO	1654	83.1	1.58	
224	Total Mono-PCBs				1.1665	5.025	0.00		0.000		NO	28.38		0.696	28.38
225	Total Di-PCBs				1.0537	5.025	0.00		0.000		NO	196.6		4.02	196.6
226	2nd Function Tri-PCBs				1.0807	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	3rd Function Tri-PCBs				0.9628	5.025	0.00		0.000		NO	422.1		6.01	423.4
228	Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	1447		8.49	1474

#	Name	Pred RT	RT	Int Resp	Int Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
4	67 PCB-100	34.81	34.79	1.759e3	1.025e3	1.560	1.64	NO	7.8791	7.8781
5	68 PCB-94	35.27	35.27	5.832e2	3.859e2	1.560	1.58	NO	3.0732	3.0732
6	69 PCB-95/96/102	35.74	35.83	5.332e4	3.267e4	1.560	1.62	NO	219.89	219.89
7	71 PCB-88/91	36.22	36.24	1.209e4	6.689e3	1.560	1.81	YES	49.413	0.00000
8	73 PCB-84/92	37.17	37.17	2.839e4	1.721e4	1.560	1.65	NO	138.67	138.67
9	74 PCB-89	37.36	37.35	6.745e2	4.802e2	1.560	1.40	NO	3.2334	3.2334



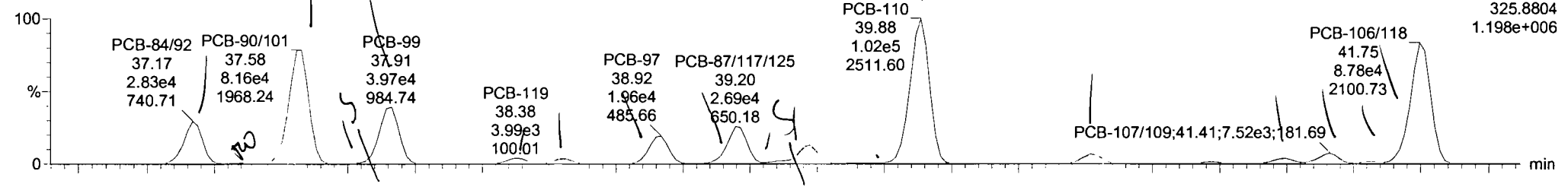
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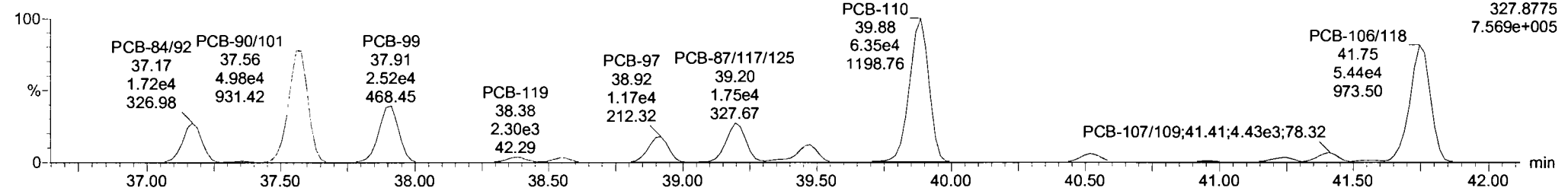
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**PCB-119**

201026K3\_8

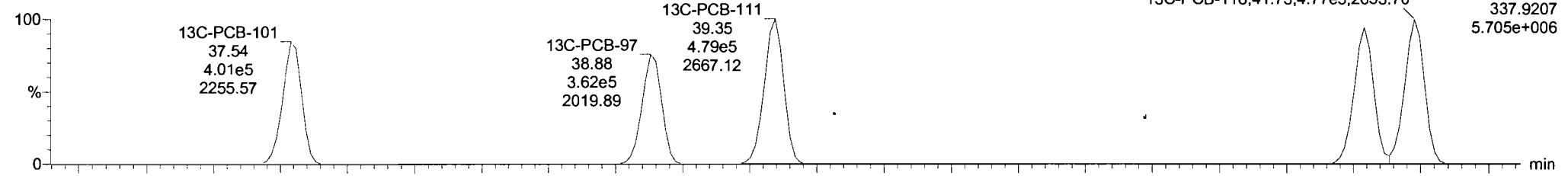


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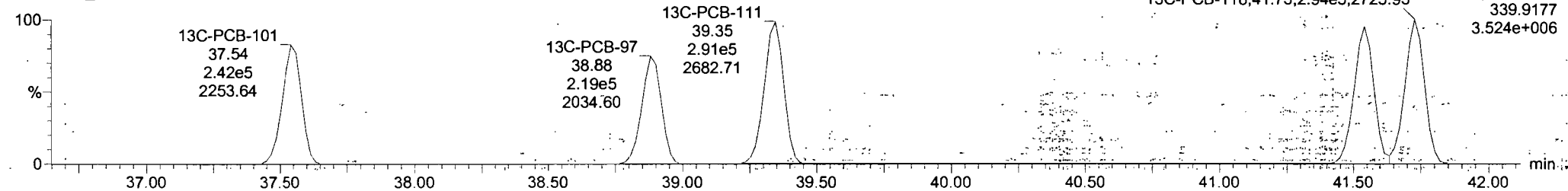


**13C-PCB-111**

201026K3\_8

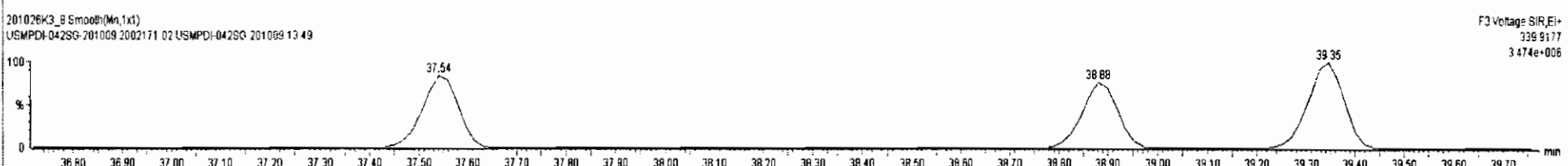
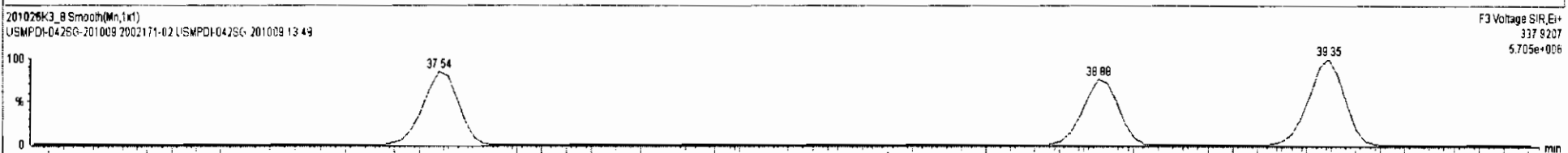
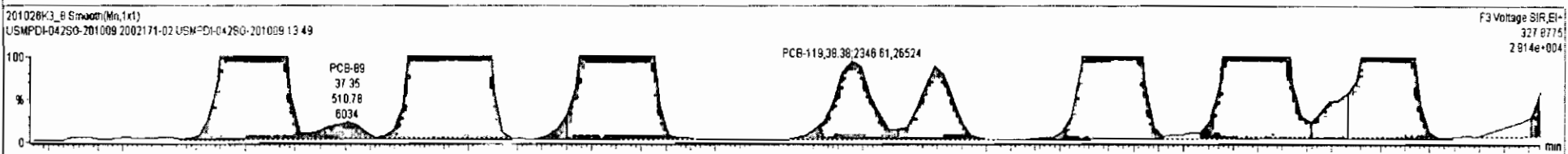
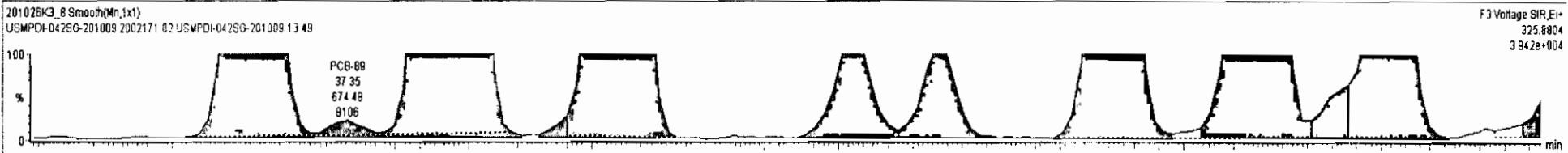


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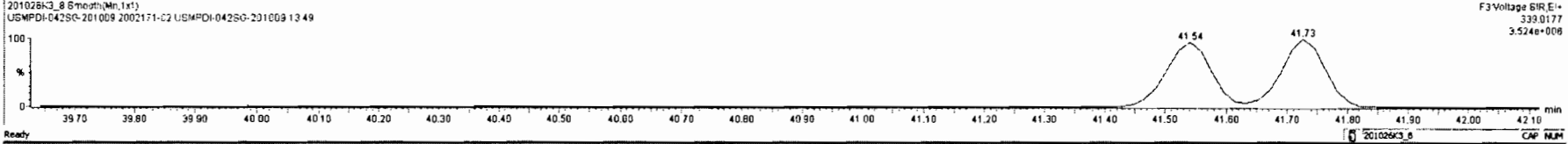
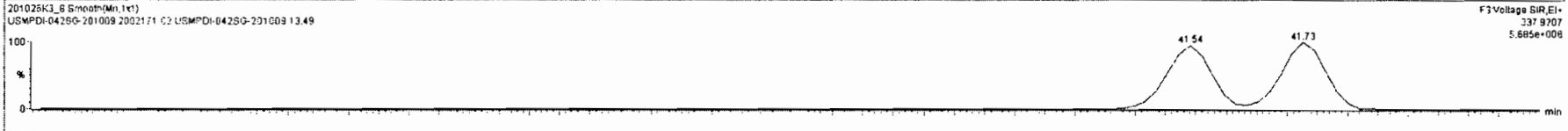
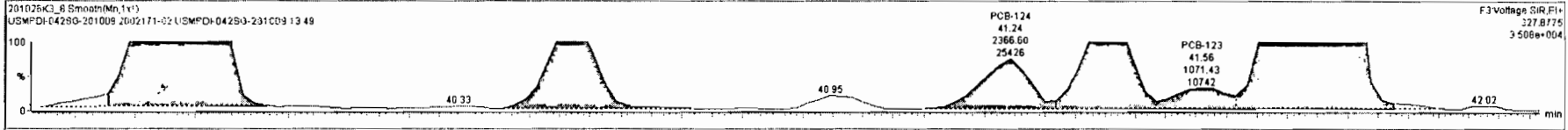
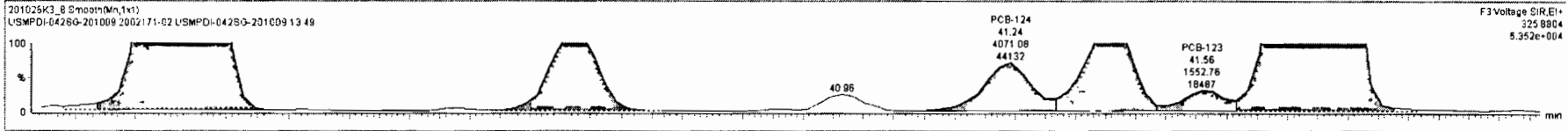
#	Name	Resp	RA	n/y	RRF	wAval	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
222	13C-PCB-79	1.33e6	0.81	NO	1.0821	5.025	37.87	37.89	0.968	0.968	NO	1716	86.3	1.06	
223	13C-PCB-178	4.15e5	0.46	NO	1.0508	5.025	45.98	45.97	0.923	0.923	NO	1654	83.1	1.58	
224	Total Mono-PCBs				1.1665	5.025	0.00		0.000		NO	28.38		0.696	28.38
225	Total Di-PCBs				1.0537	5.025	0.00		0.000		NO	196.6		4.02	196.6
226	2nd Function Tri-PCBs				1.0807	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	3rd Function Tri-PCBs				0.9828	5.025	0.00		0.000		NO	422.1		6.01	423.4
228	Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	1447		8.49	1474

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	64 PCB-104	32.57	32.57	1.548e2	2.865e2	1.560	0.54	YES	0.58784	0.00000
2	65 PCB-96	33.88	33.84	1.195e3	6.546e2	1.560	1.83	YES	3.7699	0.00000
3	66 PCB-103	34.43	34.41	1.837e3	1.080e3	1.560	1.70	NO	8.0932	8.0932
4	67 PCB-100	34.81	34.79	1.799e3	1.095e3	1.560	1.64	NO	7.8781	7.8781
5	68 PCB-94	35.27	35.27	5.832e2	3.658e2	1.560	1.59	NO	3.0732	3.0732
6	69 PCB-85/88/102	35.74	35.83	5.332e4	3.287e4	1.560	1.62	NO	219.89	219.89



#	Name	Resp	RA	n/y	RRF	wtAwt	Pred RT	RT	Pred R	RRT	RRT Fst	Conc.	%Rec	DL	EMPC
222	222 13C-PCB-79	1.33e6	0.81	NO	1.0821	5.025	37.87	37.88	0.968	0.968	NO	1718	86.3	1.06	
223	223 13C-PCB-178	4.15e5	0.46	NO	1.0508	5.025	45.98	45.97	0.923	0.923	NO	1654	83.1	1.58	
224	224 Total Mono-PCBs				1.1665	5.025	0.00		0.000		NO	28.38		0.696	28.38
225	225 Total Di-PCBs				1.0537	5.025	0.00		0.000		NO	196.8		4.02	196.8
226	226 2nd Function Tri-PCBs				1.0807	5.025	0.00		0.000		NO	143.7		2.46	150.3
227	227 3rd Function Tri-PCBs				0.9838	5.025	0.00		0.000		NO	422.1		6.01	422.4
228	228 Total Tetra-PCBs				1.0778	5.025	0.00		0.000		NO	1447		8.49	1474

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	64 PCB-104	32.57	32.57	1.548e2	2.865e2	1.580	0.54	YES	0.58784	0.00000
2	65 PCB-96	33.88	33.84	1.195e3	6.546e2	1.560	1.83	YES	3.7699	0.00000
3	66 PCB-103	34.43	34.41	1.837e3	1.083e3	1.560	1.70	NO	8.0932	8.0932
4	67 PCB-100	34.81	34.79	1.799e3	1.095e3	1.580	1.64	NO	7.8781	7.8781
5	68 PCB-94	35.27	35.27	5.832e2	3.658e2	1.580	1.59	NO	3.0732	3.0732
6	69 PCB-95/96/102	35.74	35.83	5.332e4	3.287e4	1.580	1.62	NO	219.89	219.89

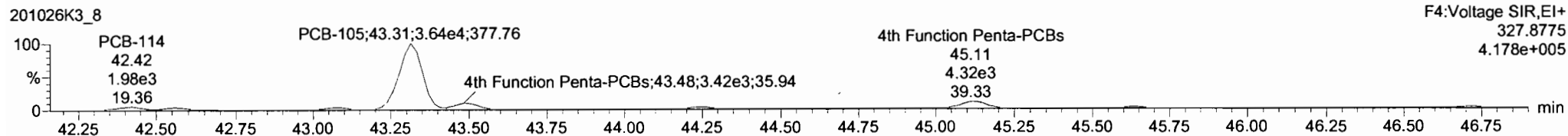
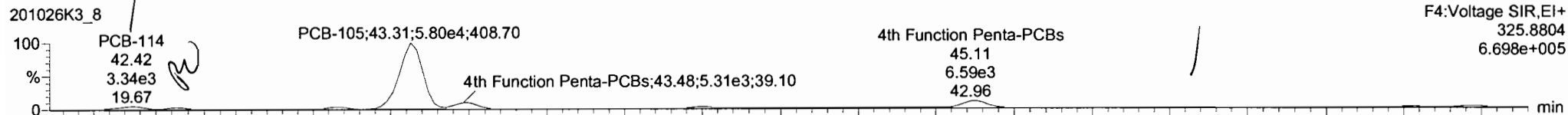


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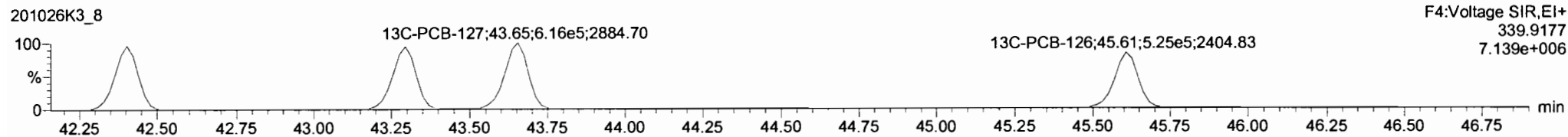
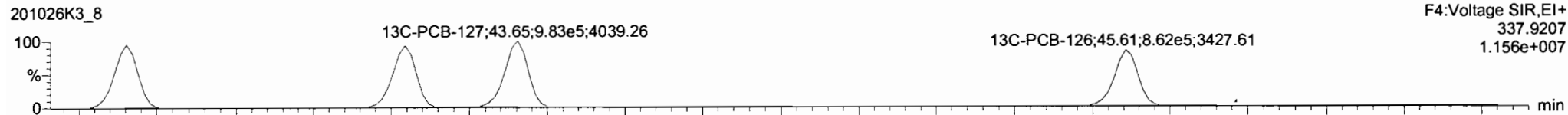
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

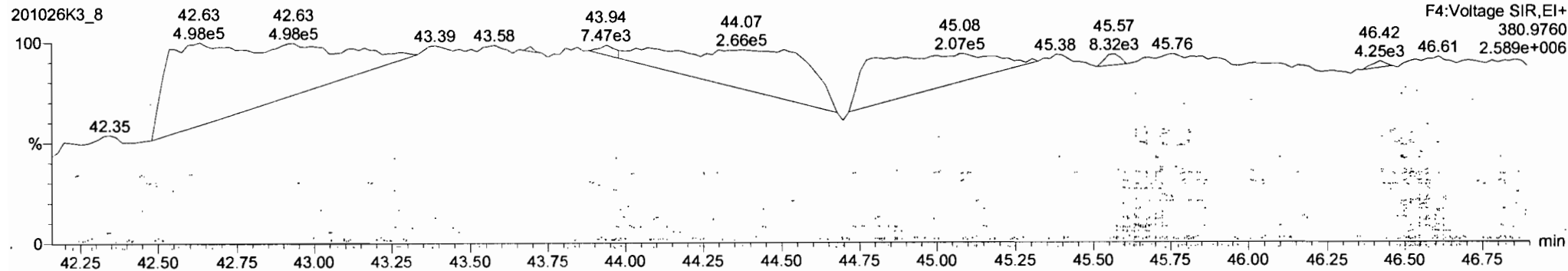
**PCB-114**



**13C-PCB-114**

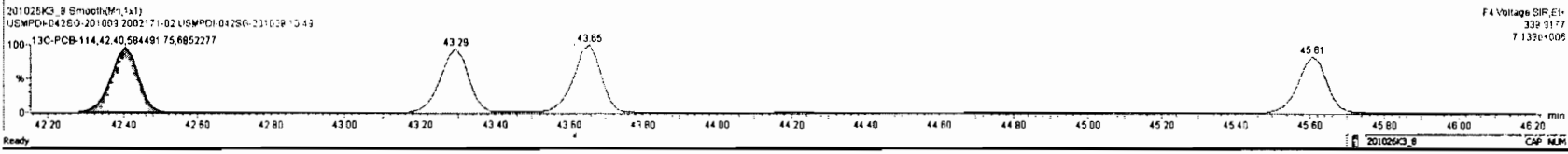
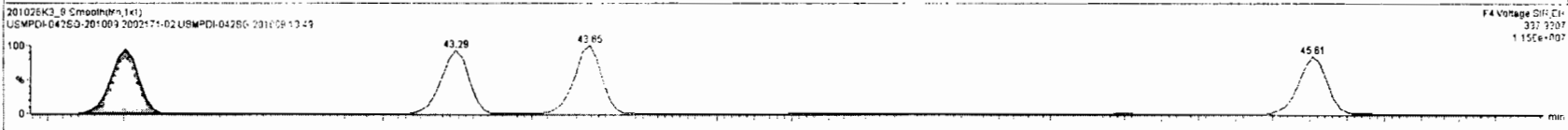
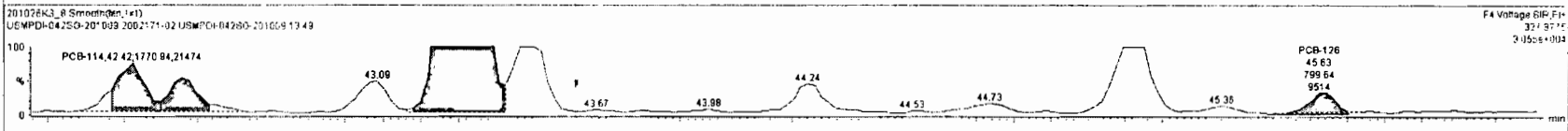
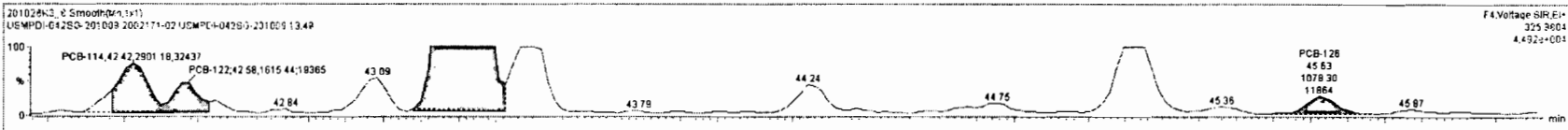


**PFK4a**



#	Name	Resp	RA	rvy	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00	0.000			NO	127.0	2.82	130.8	
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00	0.000			NO	560.5	4.08	580.8	
232	232 4th Function Hexa-PCBs				1.0316	5.025	0.00	0.000			NO	1520	9.79	1530	
233	233 Total hepta-PCBs				1.3551	5.025	0.00	0.000			NO	1246	9.83	1258	
234	234 4th Function Octa-PCBs				1.0008	5.025	0.00	0.000			NO	205.6	3.86	236.9	
235	235 5th Function Octa-PCBs				1.1499	5.025	0.00	0.000			NO	96.30	1.88	99.04	
236	236 Total Nona-PCBs				0.9823	5.025	0.00	0.000			NO	92.95	1.53	92.95	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rvy	EMPC	Conc.
1	93 PCB-114	42.43	42.42	2.801e3	1.771e3	1.560	1.64	NO	5.3077	5.3077
2	94 PCB-122	42.57	42.58	1.615e3	1.280e3	1.560	1.26	YES	3.6395	0.00000
3	95 PCB-105	43.31	43.31	5.833e4	3.826e4	1.560	1.61	NO	119.37	119.37
4	97 PCB-126	45.62	45.63	1.078e3	7.996e2	1.560	1.35	NO	2.2984	2.2984





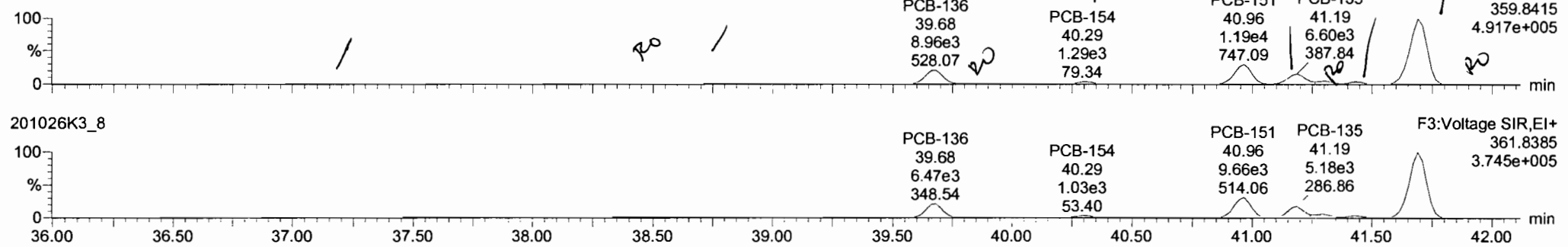
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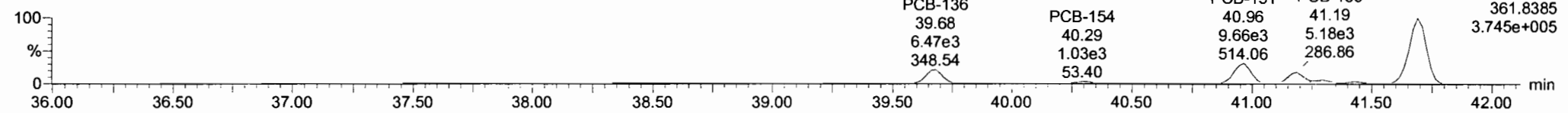
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**PCB-155**

201026K3\_8

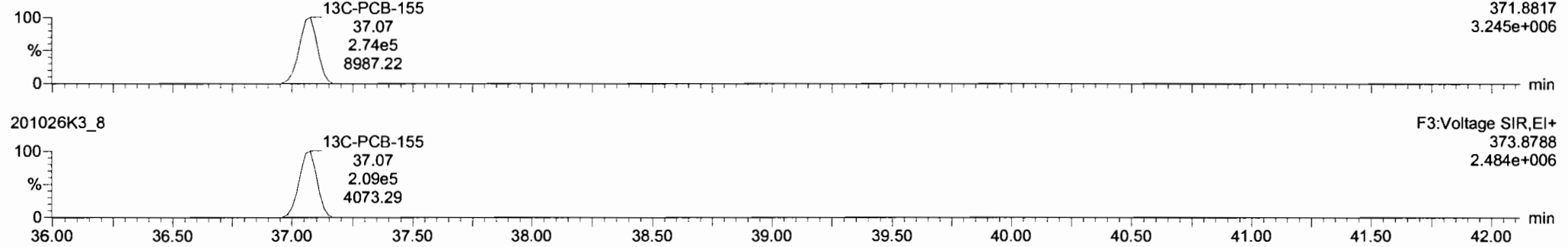


201026K3\_8

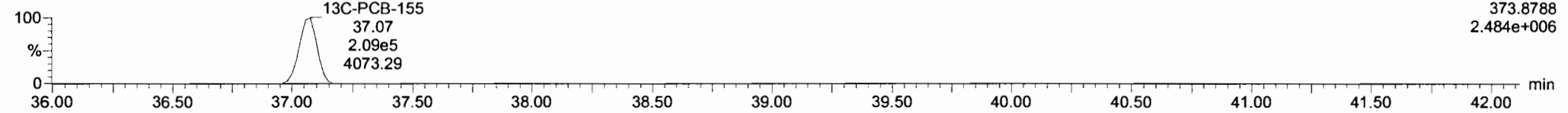


**13C-PCB-155**

201026K3\_8

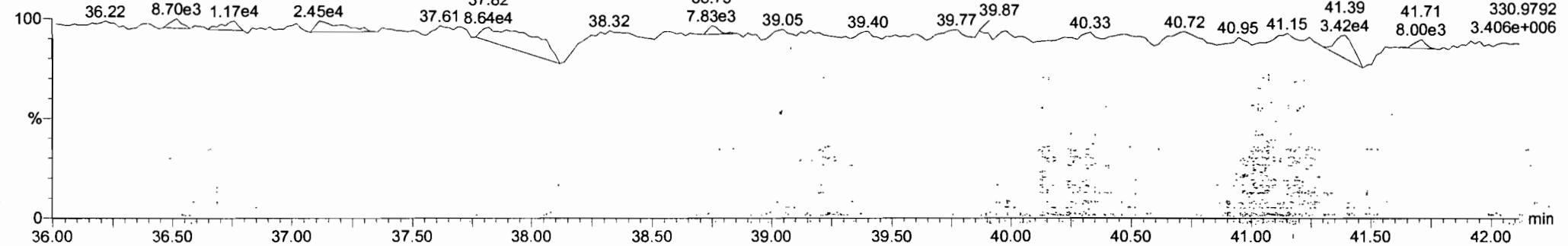


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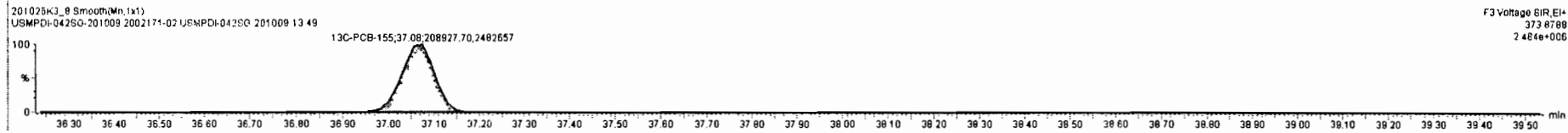
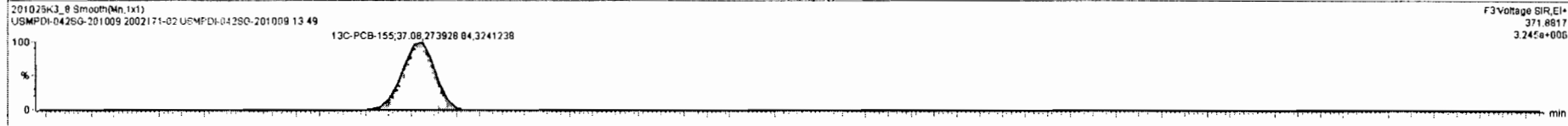
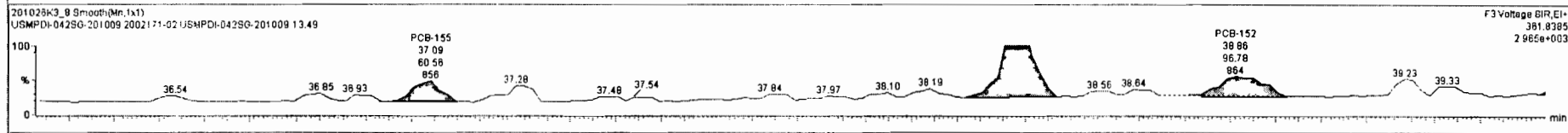
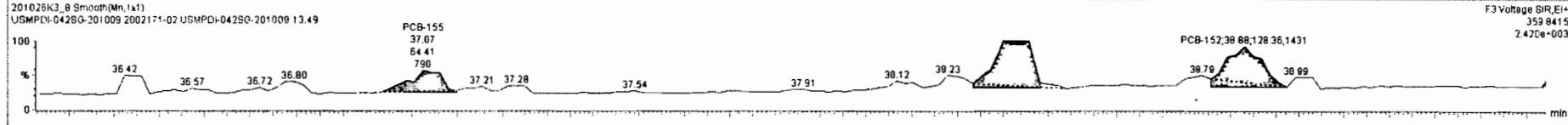
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201026K3\_8



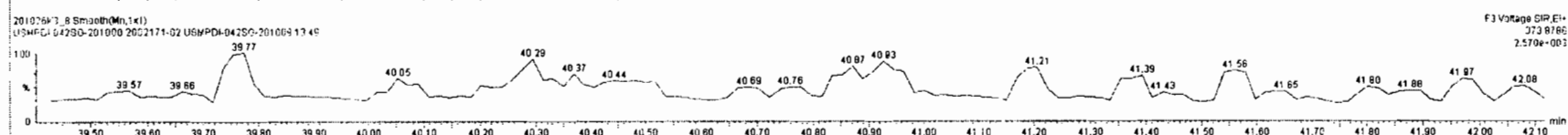
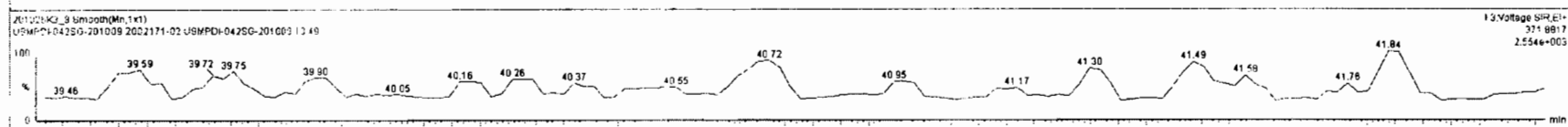
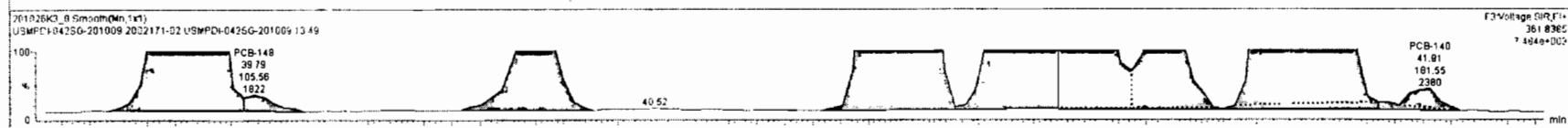
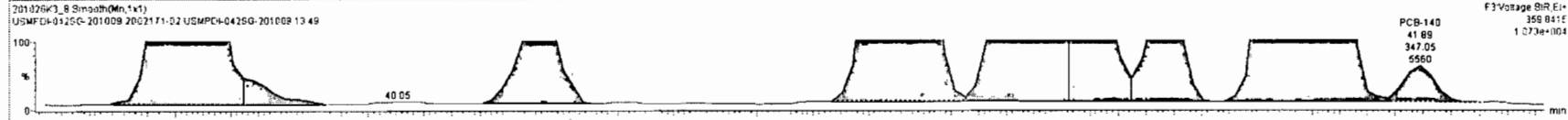
#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	561.0		4.06	582.7
232	232 4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1520		9.79	1530
233	233 Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1246		9.83	1258
234	234 4th Function Octa-PCBs				1.0008	5.025	0.00		0.000		NO	205.6		3.66	236.9
235	235 5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.30		1.88	99.04
236	236 Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	92.95		1.53	92.95

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
98	PCB-155	37.09	37.07	6.441e1	6.056e1	1.240	1.06	NO	0.49349	0.49349
99	PCB-150	36.40	36.38	2.066e2	2.576e2	1.240	0.80	YES	1.4198	0.00000
100	PCB-152	38.88	38.88	1.284e2	9.678e1	1.240	1.33	NO	0.78208	0.78208
102	PCB-136	38.68	38.68	8.723e3	6.473e3	1.240	1.35	NO	61.347	61.347
103	PCB-148	39.79	39.77	2.498e2	1.056e2	1.240	2.37	YES	1.1579	0.00000
104	PCB-154	40.30	40.29	1.263e3	1.029e3	1.240	1.26	NO	10.414	10.414



#	Name	Resp	RA	n/y	RRF	wtVol	Prod RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	581.0		4.08	582.7
232	4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1520		9.79	1530
233	Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1246		9.81	1258
234	4th Function Octa-PCBs				1.0008	5.025	0.00		0.000		NO	205.6		3.86	236.9
235	5th Function Octa-PCBs				1.1459	5.025	0.00		0.000		NO	96.30		1.86	99.04
236	Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	92.95		1.53	92.95

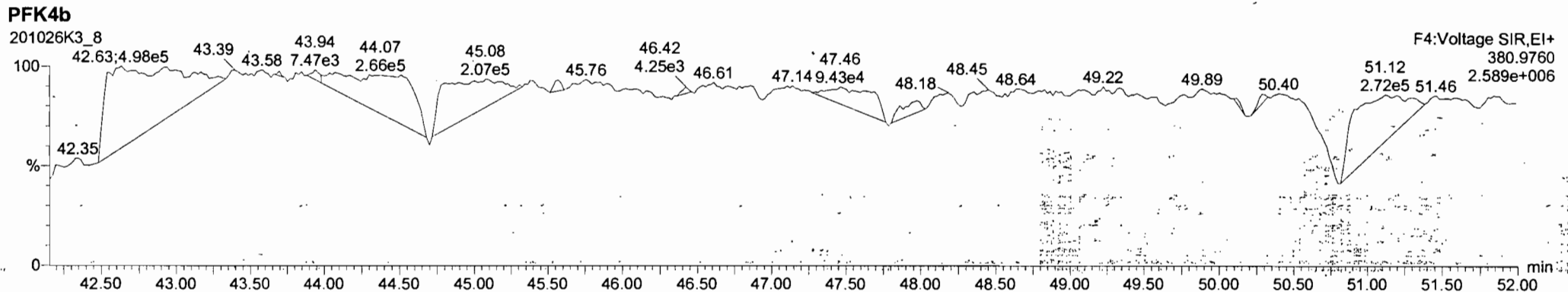
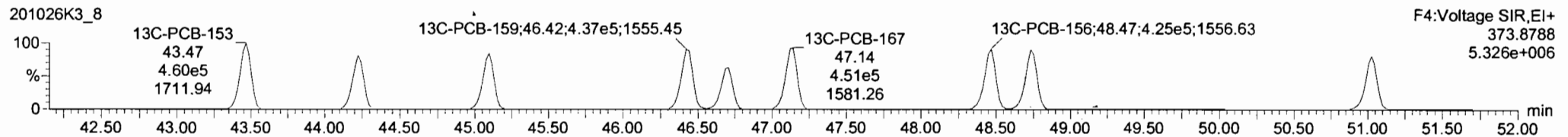
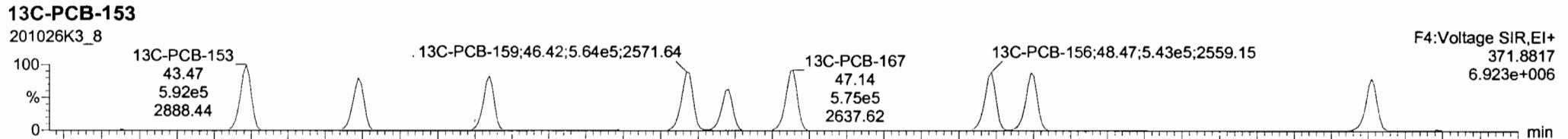
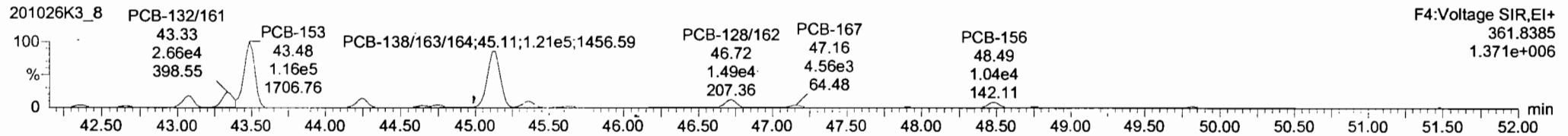
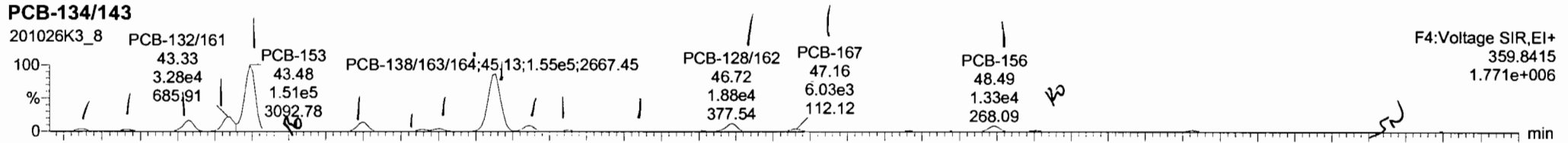
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	98 PCB-155	37.03	37.07	6.441e1	6.056e1	1.240	1.06	NO	0.49346	0.49346
2	99 PCB-150	38.40	38.38	2.056e2	2.576e2	1.240	0.80	YES	1.4198	0.00000
3	100 PCB-152	38.88	38.88	1.284e2	9.678e1	1.240	1.33	NO	0.78208	0.78208
4	102 PCB-136	39.68	39.68	8.723e3	6.473e3	1.240	1.35	NO	61.347	61.347
5	103 PCB-148	39.78	39.77	2.498e2	1.056e2	1.240	2.37	YES	1.1579	0.00000
6	104 PCB-154	40.30	40.29	1.293e3	1.029e3	1.240	1.26	NO	10.414	10.414



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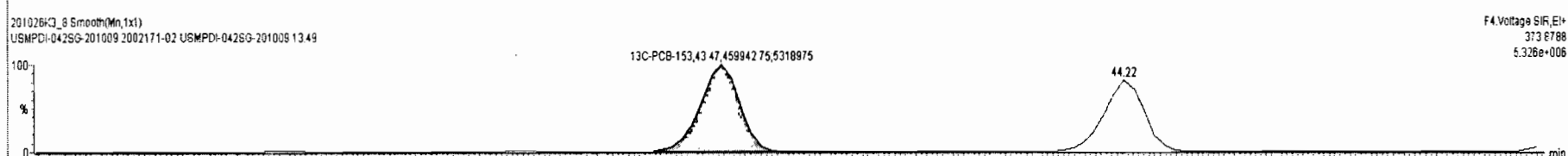
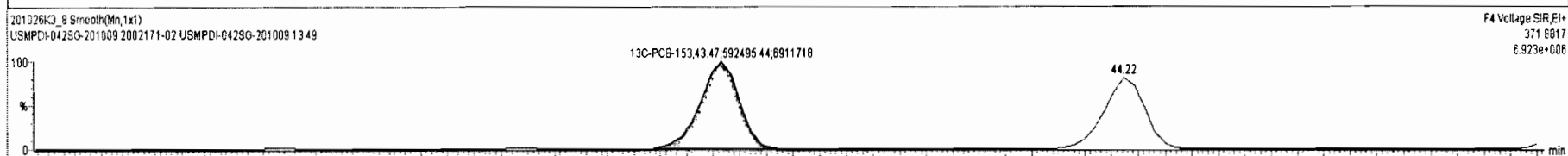
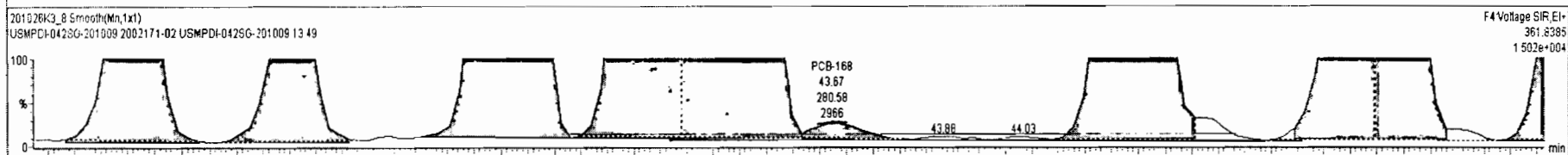
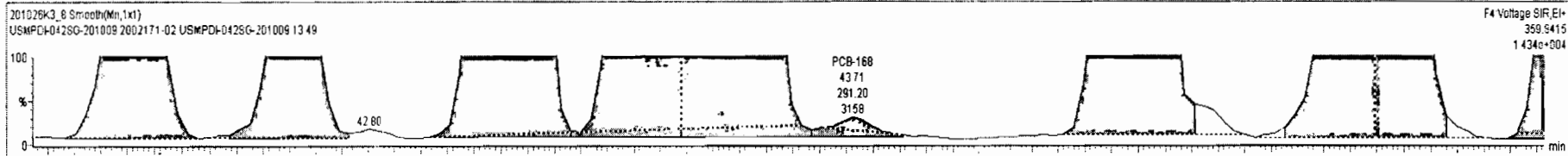
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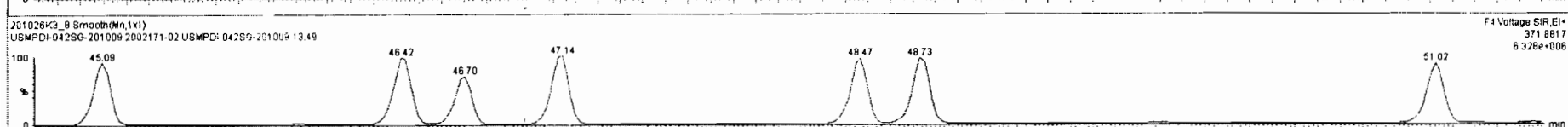
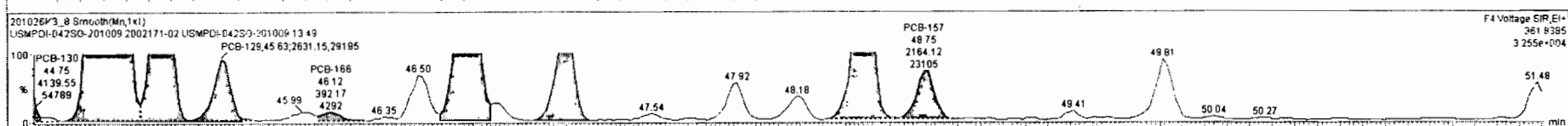
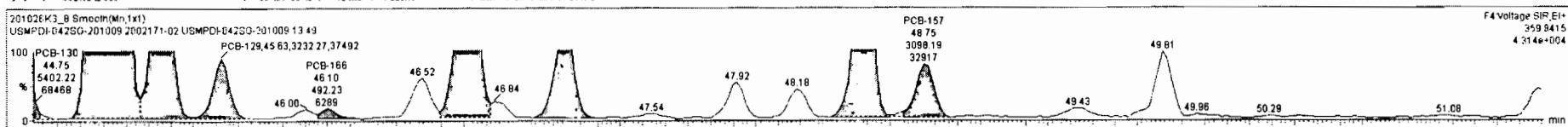
#	Name	Resp	RA	n/y	RFF	wt/Avl	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	561.0		4.08	582.7
232	232 4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	-1521		8.79	1532
233	233 Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1246		8.83	1258
234	234 4th Function Octa-PCBs				1.0008	5.025	0.00		0.000		NO	205.6		3.66	236.9
235	235 5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.30		1.88	99.04
236	236 Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	92.95		1.53	92.95

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.34	42.37	5.140e3	4.187e3	1.240	1.23	NO	23.238	23.238
2	112 PCB-131/133	42.67	42.65	3.809e3	2.743e3	1.240	1.39	NO	15.094	15.094
3	114 PCB-146/165	43.07	43.07	2.529e4	2.097e4	1.240	1.21	NO	86.053	86.053
4	115 PCB-132/161	43.31	43.33	3.300e4	2.662e4	1.240	1.24	NO	110.08	110.08
5	116 PCB-153	43.48	43.48	1.514e5	1.161e5	1.240	1.30	NO	472.44	472.44
6	117 PCB-168	43.71	43.71	2.912e2	2.806e2	1.240	1.04	YES	0.92334	0.00000



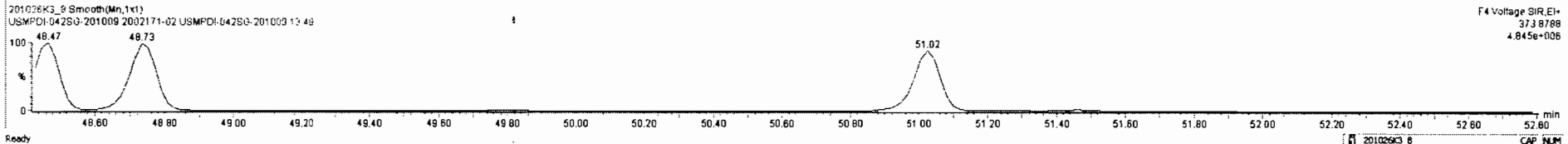
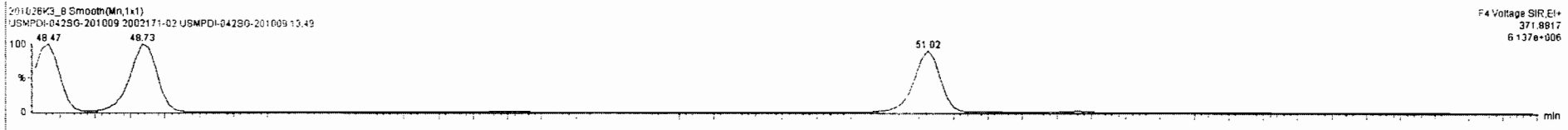
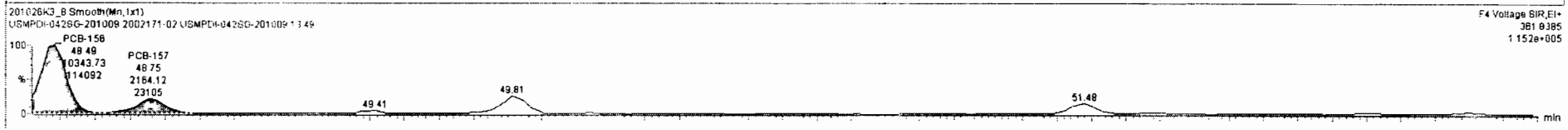
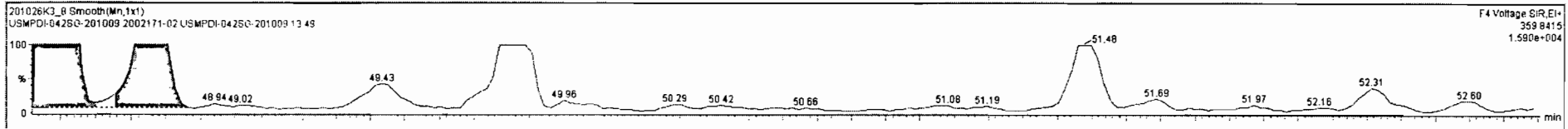
#	Name	Resp	RA	n/y	RRF	wAnd	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	231 3rd Function Hexa-PCBs				0.9525	5.025	0.00		0.000		NO	561.0		4.06	582.7
232	232 4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1521		8.79	1522
233	233 Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1246		9.83	1258
234	234 4th Function Octa-PCBs				1.0008	5.025	0.00		0.000		NO	205.6		3.66	236.9
235	235 5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.30		1.88	99.04
236	236 Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	92.95		1.53	92.95

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/43	42.34	42.37	5.140e3	4.187e3	1.240	1.23	NO	23.238	23.238
2	112 PCB-131/33	42.67	42.65	3.809e3	2.743e3	1.240	1.39	NO	15.094	15.094
3	114 PCB-146/65	43.07	43.07	2.529e4	2.097e4	1.240	1.21	NO	86.053	86.053
4	115 PCB-132/61	43.31	43.33	3.300e4	2.562e4	1.240	1.24	NO	110.08	110.08
5	116 PCB-153	43.48	43.48	1.514e5	1.161e5	1.240	1.30	NO	472.44	472.44
6	117 PCB-168	43.71	43.71	2.912e2	2.806e2	1.240	1.04	YES	0.92334	0.00000



#	Name	Resp	RA	n/y	RRF	wtAve	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
230	4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	561.0		4.08	582.7
232	4th Function Hexa-PCBs				1.0318	5.025	0.00		0.000		NO	1521		9.79	1532
233	Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1246		9.83	1258
234	4th Function Octa-PCBs				1.0008	5.025	0.00		0.000		NO	205.6		3.66	236.9
235	5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.30		1.88	99.04
236	Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	92.95		1.53	92.95

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
12	123 PCB-129	45.63	45.63	3.232e3	2.631e3	1.240	1.23	NO	15.296	15.296
13	124 PCB-186	46.10	46.10	4.922e2	3.922e2	1.240	1.26	NO	1.5377	1.5377
14	126 PCB-126/162	46.73	46.72	1.866e4	1.490e4	1.240	1.27	NO	73.920	73.920
15	127 PCB-167	47.16	47.16	6.031e3	4.598e3	1.240	1.32	NO	18.521	18.521
16	128 PCB-158	48.49	48.49	1.398e4	1.034e4	1.240	1.29	NO	43.306	43.306
17	129 PCB-157	48.75	48.75	3.098e3	2.164e3	1.240	1.43	YES	9.5143	0.00000

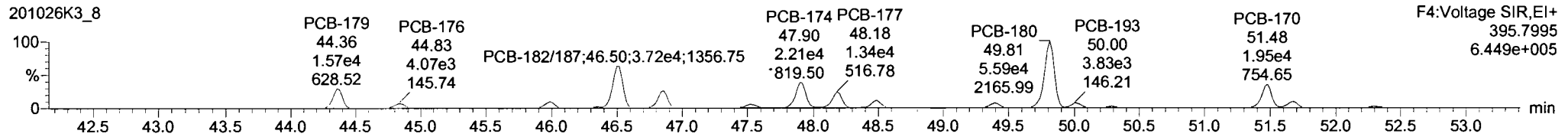
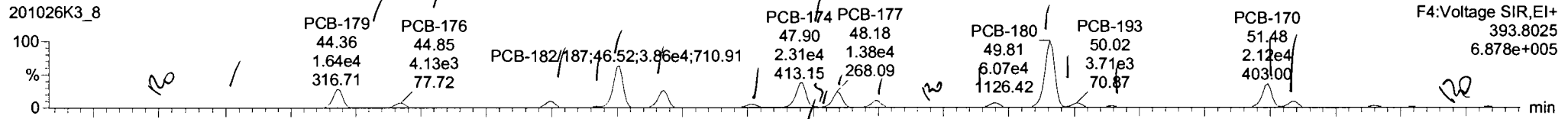


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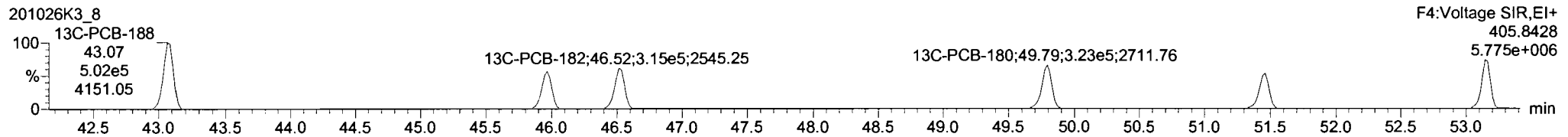
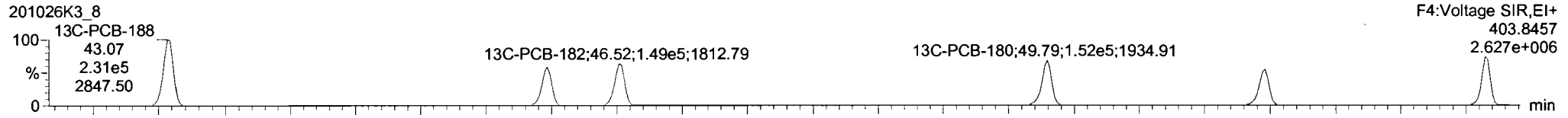
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Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

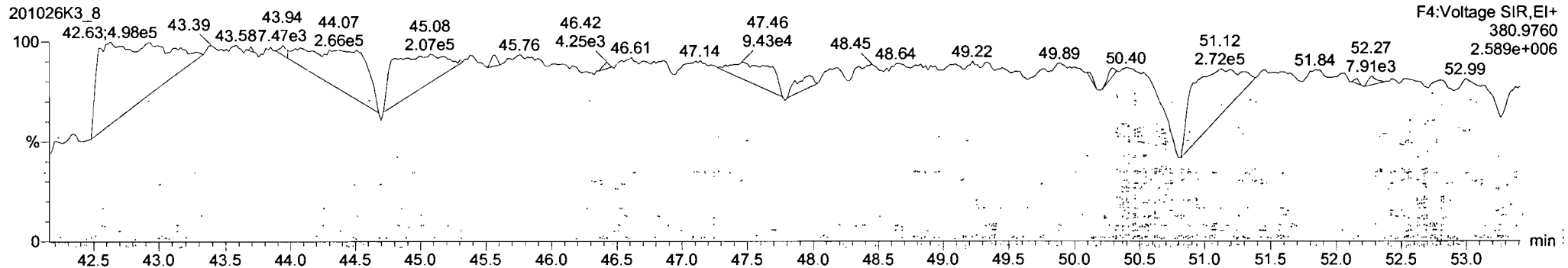
**PCB-188**



**13C-PCB-188**



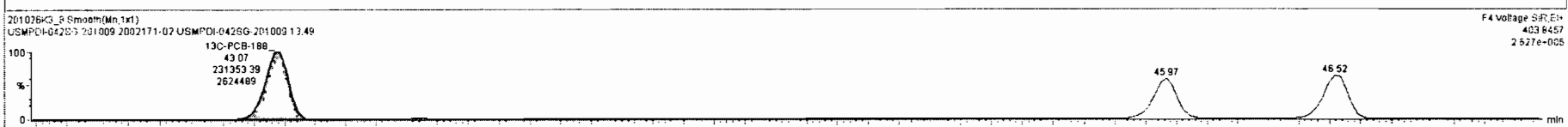
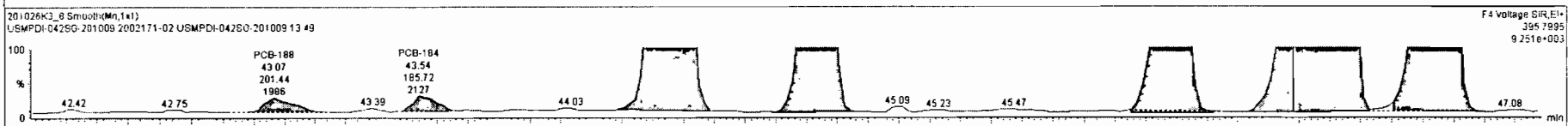
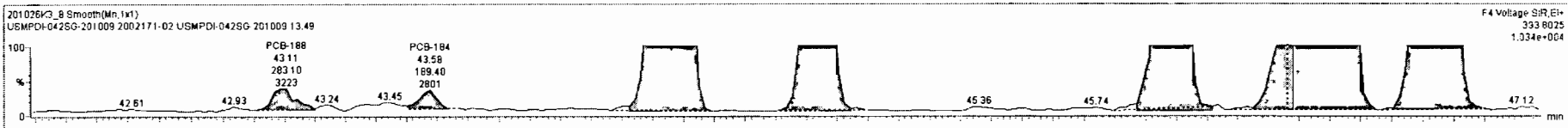
**PFK4c**





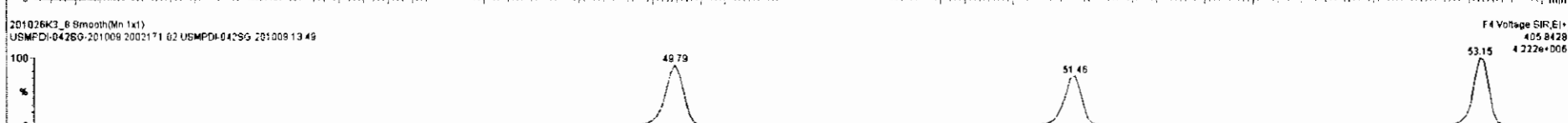
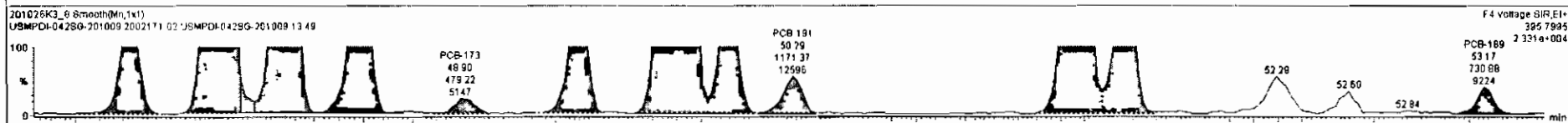
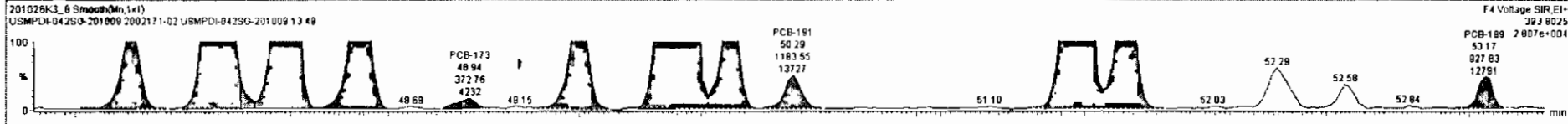
#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R <sub>1</sub>	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	561.0		4.06	582.7
232	232 4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1521		9.79	1532
233	233 Total Hepta-PCBs				1.3651	5.025	0.00		0.000		NO	1251		8.83	1289
234	234 4th Function Octa-PCBs				1.0008	5.025	0.00		0.000		NO	205.6		3.66	236.9
235	235 5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.30		1.98	99.04
236	236 Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	92.95		1.53	92.95

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-188	43.11	43.11	2.831e2	2.014e2	1.050	1.41	YES	0.86891	0.00000
2	132 PCB-184	43.56	43.58	1.894e2	1.857e2	1.050	1.02	NO	0.82649	0.82649
3	130 PCB-179	44.36	44.36	1.841e4	1.574e4	1.050	1.04	NO	67.212	67.212
4	134 PCB-176	44.85	44.85	4.111e3	4.065e3	1.050	1.01	NO	16.955	16.955
5	136 PCB-178	45.99	45.99	5.635e3	5.245e3	1.050	1.07	NO	31.301	31.301
6	137 PCB-175	46.35	46.35	8.699e2	8.540e2	1.050	1.02	NO	4.8922	4.8922



#	Name	Resp	RA	n/y	RRF	wInd	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	561.0		4.08	587.7
232	232 4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1521		9.79	1532
233	233 Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1251		9.83	1259
234	234 4th Function Octa-PCBs				1.0008	5.025	0.00		0.000		NO	205.5		3.66	236.9
235	235 5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.30		1.88	99.04
236	236 Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	92.95		1.53	92.95

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc
140	PCB-185	47.52	47.54	2.978e3	3.055e3	1.050	0.97	NO	17.971	17.971
141	PCB-174	47.91	47.90	2.274e4	2.172e4	1.050	1.05	NO	137.53	137.53
142	PCB-181	48.02	47.89	3.566e2	3.581e2	1.050	1.00	NO	2.0298	2.0298
143	PCB-177	48.20	48.18	1.384e4	1.340e4	1.050	1.03	NO	89.279	89.279
144	PCB-171	48.50	48.49	6.057e3	6.004e3	1.050	1.01	NO	38.373	38.373
145	PCB-173	48.83	48.94	3.728e2	4.792e2	1.050	0.78	YES	2.5812	0.00000



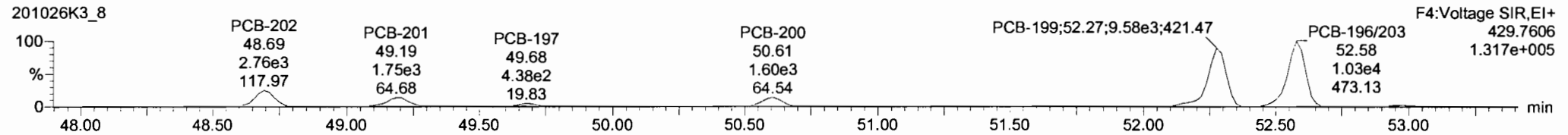
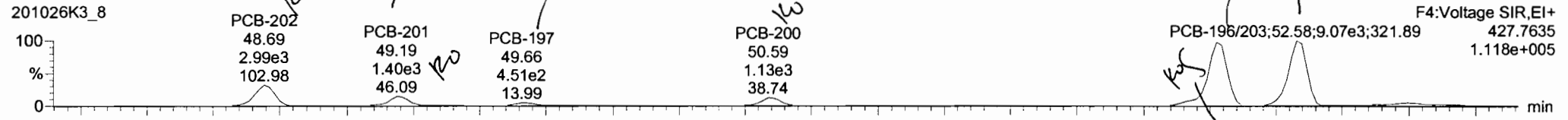
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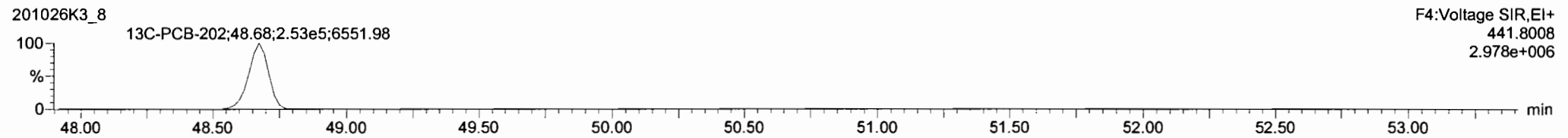
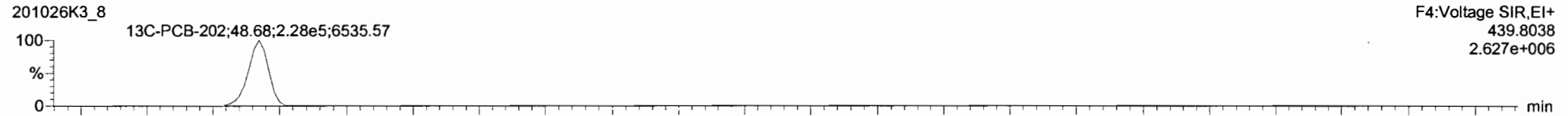
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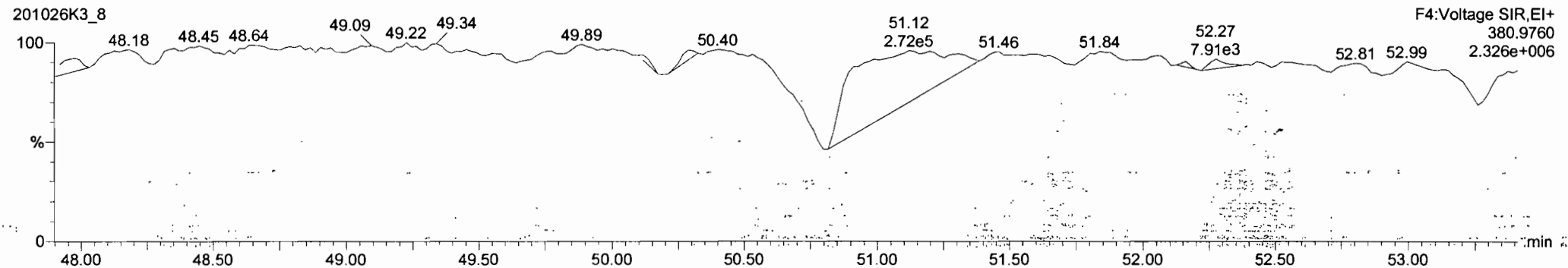
**PCB-202**



**13C-PCB-202**

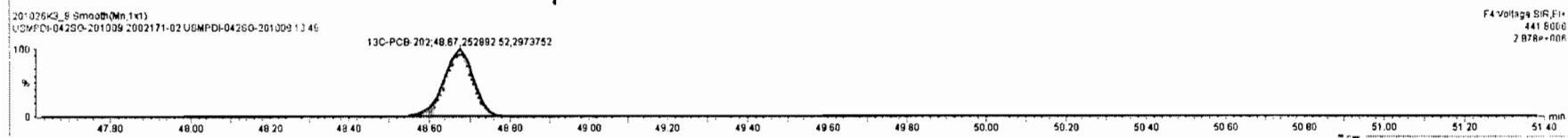
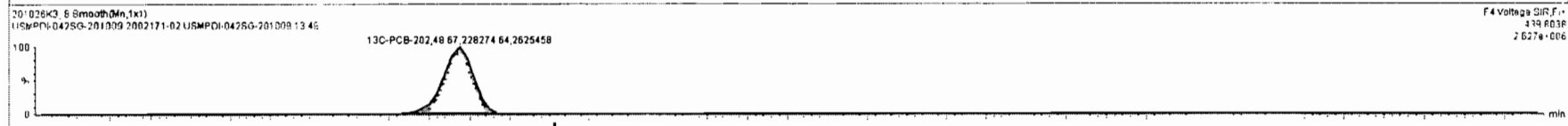
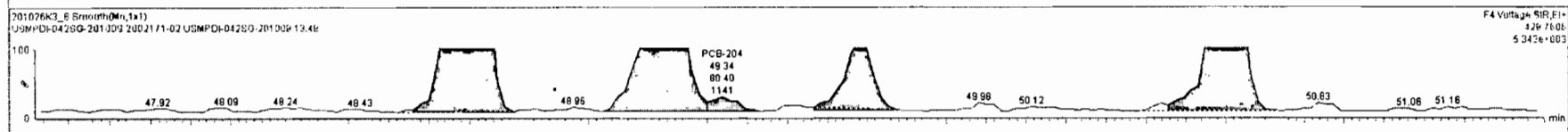
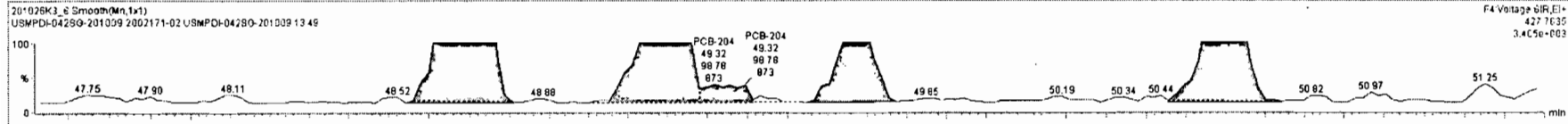


**PFK4d**



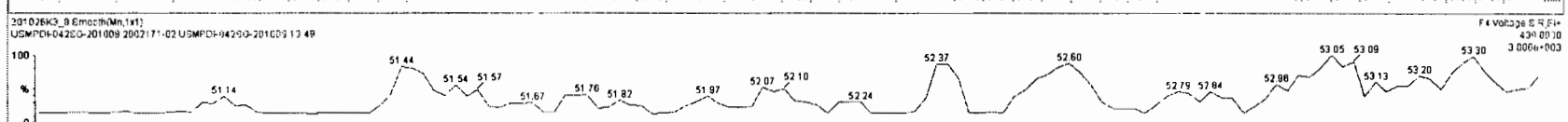
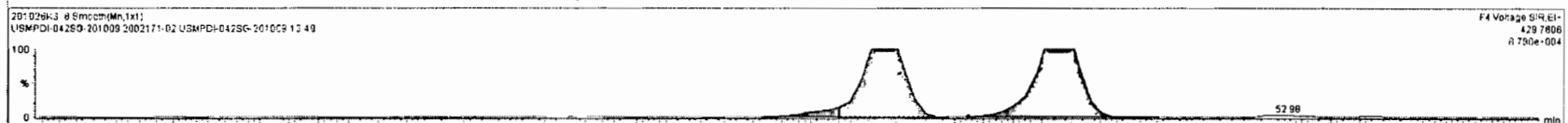
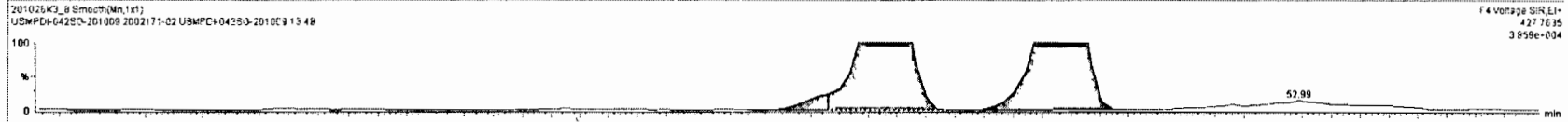
#	Name	Resp	RA	n/y	RRF	wt/Avol	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	561.0		4.08	582.7
232	232 4th Function Hexa-PCBs				1.0318	5.025	0.00		0.000		NO	1521		9.79	1532
233	233 Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1251		8.83	1259
234	234 4th Function Octa-PCBs				1.0008	5.025	0.00		0.000		NO	204.2		3.66	237.2
235	235 5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.30		1.88	99.04
236	236 Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	92.95		1.53	92.95

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	154 PCB-202	48.71	48.89	3.014e3	2.754e3	0.890	1.09	YES	18.429	0.00000
2	155 PCB-201	49.19	49.19	1.394e3	1.753e3	0.890	0.60	NO	12.366	12.366
3	156 PCB-204	49.34	49.32	9.879e1	8.040e1	0.890	1.23	YES	0.55086	0.00000
4	157 PCB-197	49.65	49.66	4.599e2	4.739e2	0.890	0.96	NO	3.2657	3.2657
5	158 PCB-200	50.59	50.59	1.148e3	1.594e3	0.890	0.72	YES	9.4212	0.00000
6	159 PCB-198	52.14	52.18	4.151e2	5.909e2	0.890	0.70	YES	4.5921	0.00000



#	Name	Resp	RA	nly	RRF	wtAveI	Pred RT	RT	Pred.R.	RRF	RRF Fail	Conc.	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.8
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	561.0		4.08	582.7
232	232 4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1521		9.79	1532
233	233 Total Hepta-PCBs				1.3651	5.025	0.00		0.000		NO	1261		8.83	1268
234	234 4th Function Octa-PCBs				1.0008	6.026	0.00		0.000		NO	204.2		3.68	237.2
235	235 5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.30		1.98	99.04
236	236 Total Nona-PCBs				0.8523	5.025	0.00		0.000		NO	92.96		1.53	92.96

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	154 PCB-202	48.71	48.88	3.014e3	2.754e3	0.850	1.09	YES	18.429	0.00000
2	155 PCB-201	49.19	49.19	1.394e3	1.753e3	0.850	0.80	NO	12.366	12.366
3	156 PCB-204	49.34	49.32	9.878e1	8.040e1	0.850	1.23	YES	0.55088	0.00000
4	157 PCB-197	49.65	49.66	4.009e2	4.709e2	0.850	0.96	NO	3.3657	3.3657
5	158 PCB-200	50.59	50.59	1.148e3	1.584e3	0.850	0.72	YES	8.4712	0.00000
6	159 PCB-198	52.14	52.18	4.151e2	5.908e2	0.850	0.70	YES	4.5621	0.00000

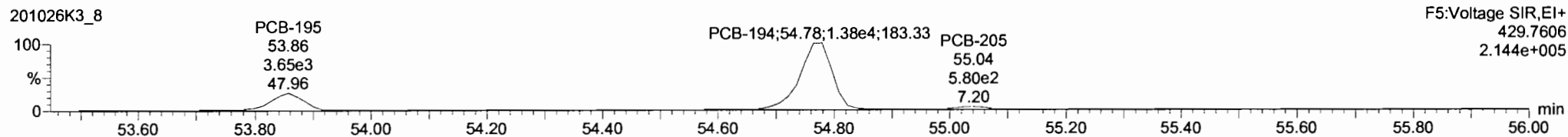
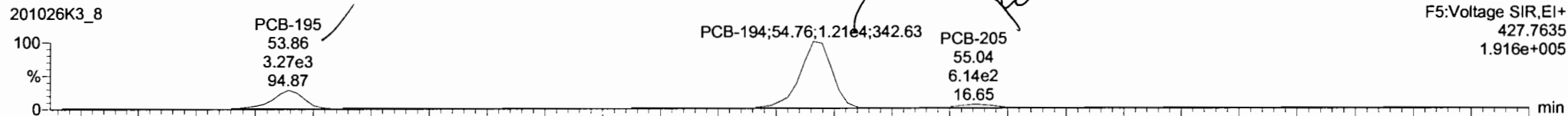


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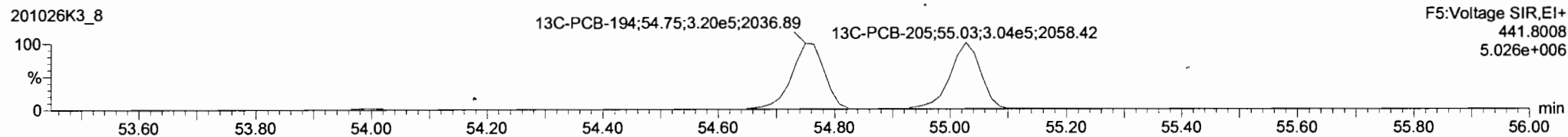
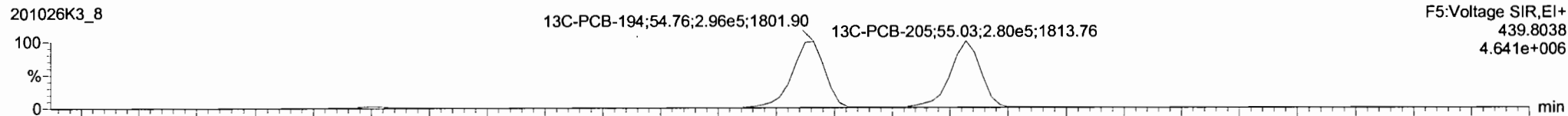
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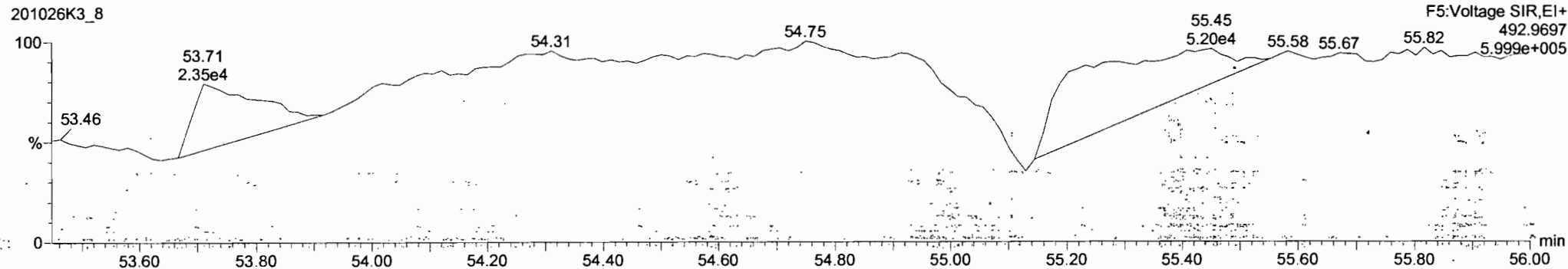
**PCB-195**



**13C-PCB-194**

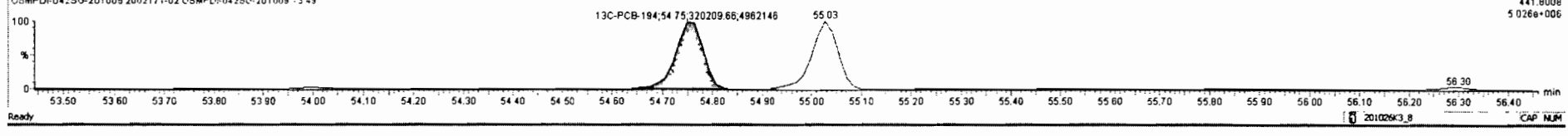
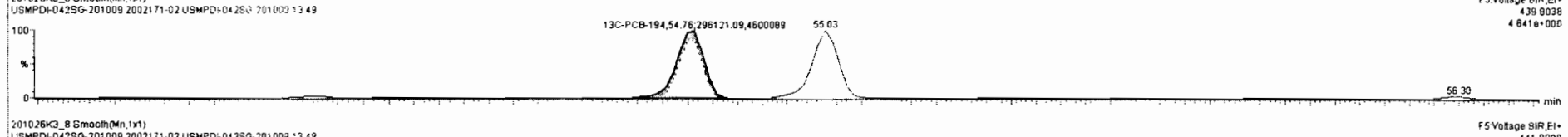
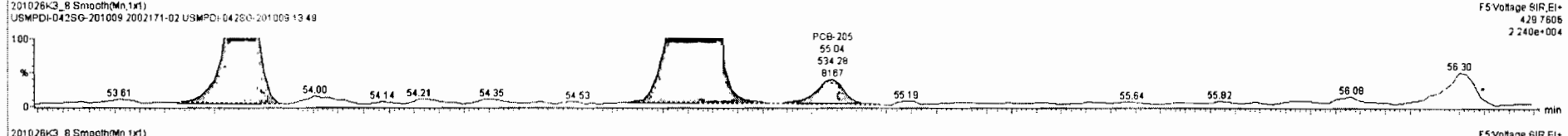
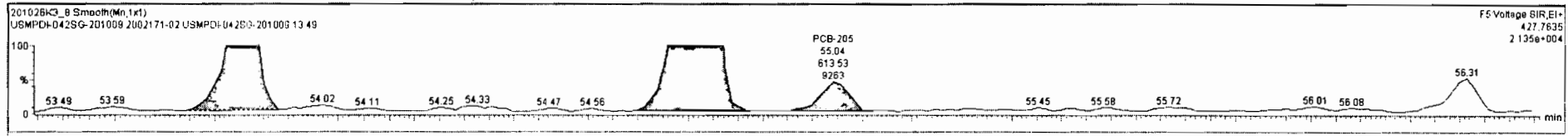


**PFK5a**



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	561.0		4.08	582.7
232	4th Function Hexa-PCBs				1.0316	5.025	0.00		0.000		NO	1521		9.79	1532
233	Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1251		9.83	1259
234	4th Function Octa-PCBs				1.0006	5.025	0.00		0.000		NO	204.2		3.56	237.2
235	5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.59		1.88	99.11
236	Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	92.95		1.53	92.95

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	162 PCB-195	53.87	53.86	3.303e3	3.682e3	0.890	0.90	NO	21.595	21.595
2	163 PCB-194	54.78	54.76	1.210e4	1.382e4	0.890	0.88	NO	74.991	74.991
3	164 PCB-205	55.05	55.04	6.135e2	5.343e2	0.890	1.15	YES	2.5287	0.00000

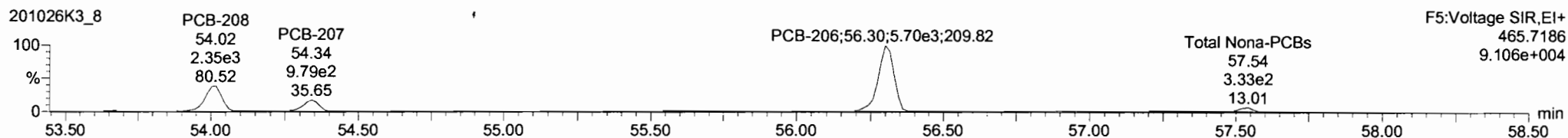
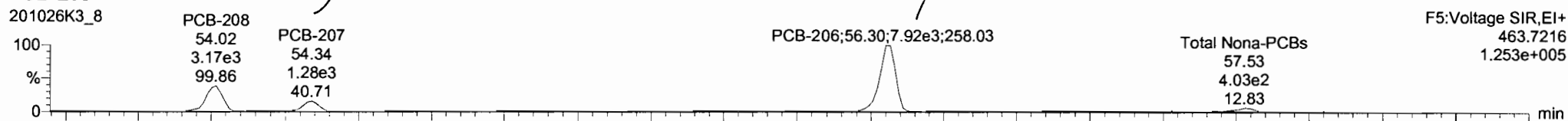


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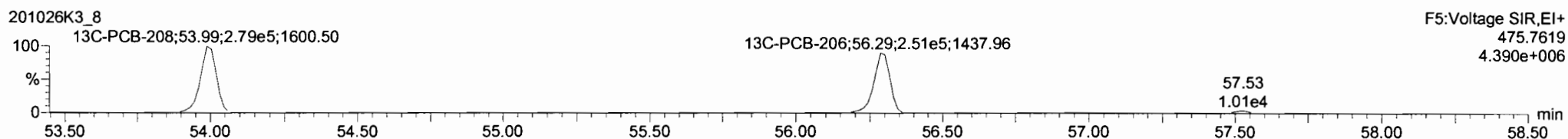
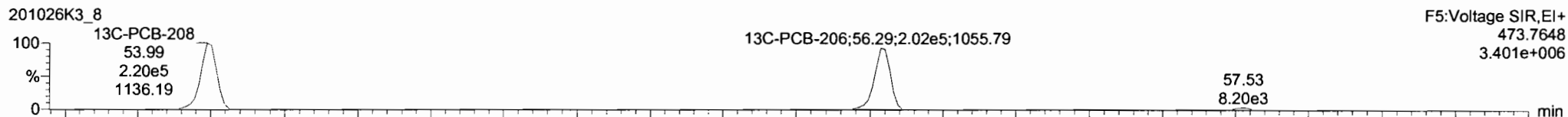
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 Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

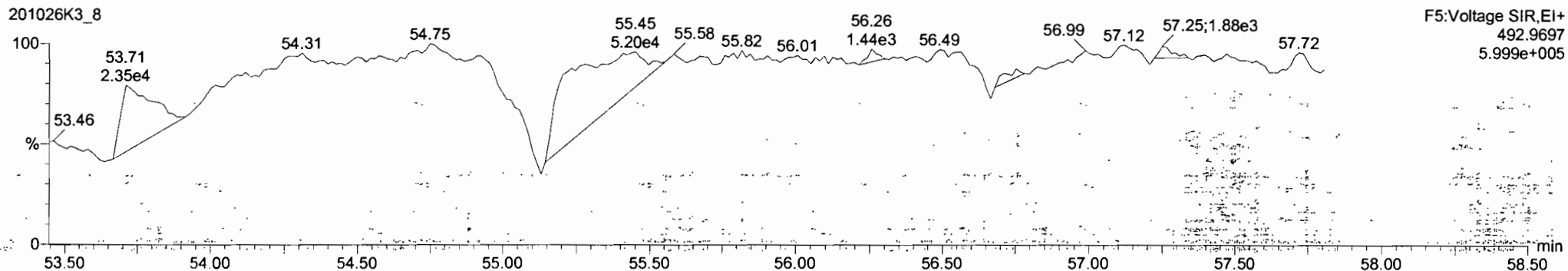
**PCB-208**



**13C-PCB-208**



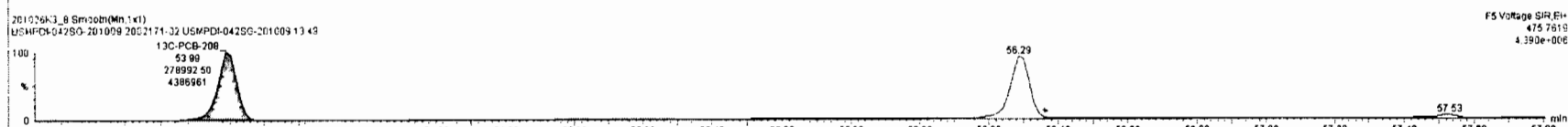
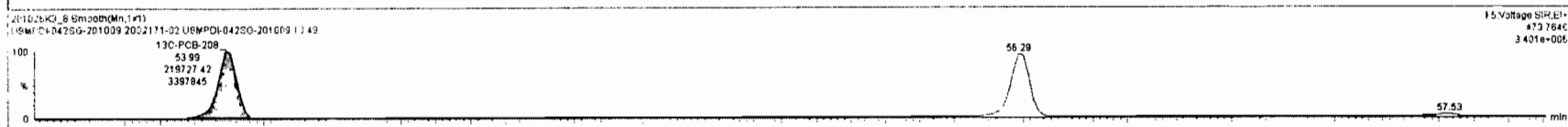
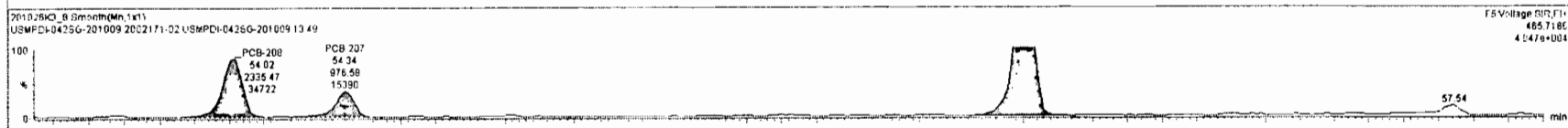
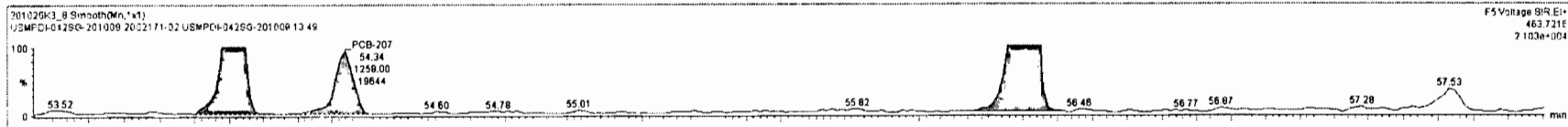
**PFK5**





#	Name	Resp	RA	RV	RNF	WVol	Pred RT	RI	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
230	230 4th Function Penta-PCBs				1.0735	5.025	0.00		0.000		NO	127.0		2.92	130.6
231	231 3rd Function Hexa-PCBs				0.9505	5.025	0.00		0.000		NO	561.0		4.08	562.7
232	232 4th Function Hexa-PCBs				1.0318	5.025	0.00		0.000		NO	1521		9.79	1532
233	233 Total Hepta-PCBs				1.3551	5.025	0.00		0.000		NO	1251		8.83	1268
234	234 4th Function Octa-PCBs				1.0208	5.025	0.00		0.000		NO	204.2		3.66	237.2
235	235 5th Function Octa-PCBs				1.1499	5.025	0.00		0.000		NO	96.58		1.98	99.11
236	236 Total Nona-PCBs				0.9523	5.025	0.00		0.000		NO	82.84		1.53	92.84

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	RV	EMPC	Conc.
1	165 PCB-208	54.01	54.02	3.188e3	2.335e3	1.340	1.37	NO	23.621	23.621
2	166 PCB-207	54.33	54.34	1.258e3	9.766e2	1.340	1.28	NO	9.709	9.709
3	167 PCB-206	56.30	56.30	7.924e3	5.698e3	1.340	1.39	NO	59.493	59.493



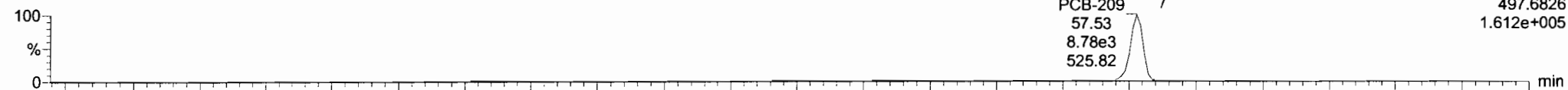
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_8, Date: 27-Oct-2020, Time: 17:59:15, ID: 2002171-02 USMPDI-042SG-201009 13.49, Description: USMPDI-042SG-201009

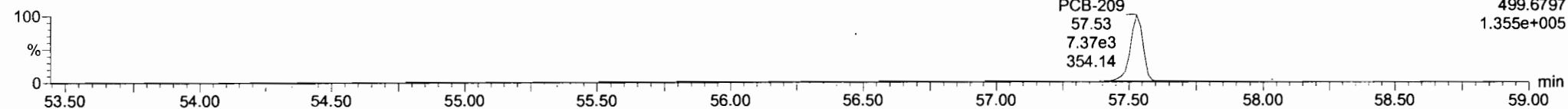
**PCB-209**

201026K3\_8



F5:Voltage SIR,EI+  
497.6826  
1.612e+005

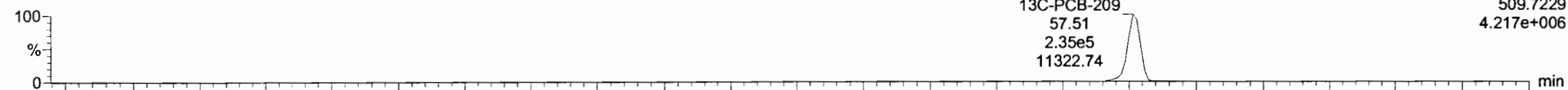
201026K3\_8



F5:Voltage SIR,EI+  
499.6797  
1.355e+005

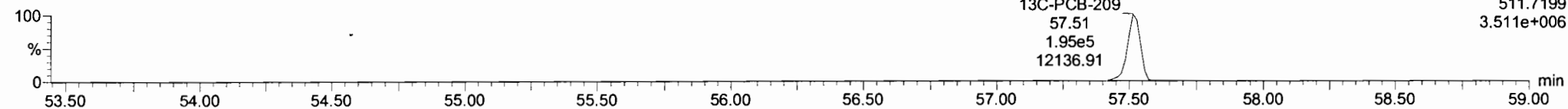
**13C-PCB-209**

201026K3\_8



F5:Voltage SIR,EI+  
509.7229  
4.217e+006

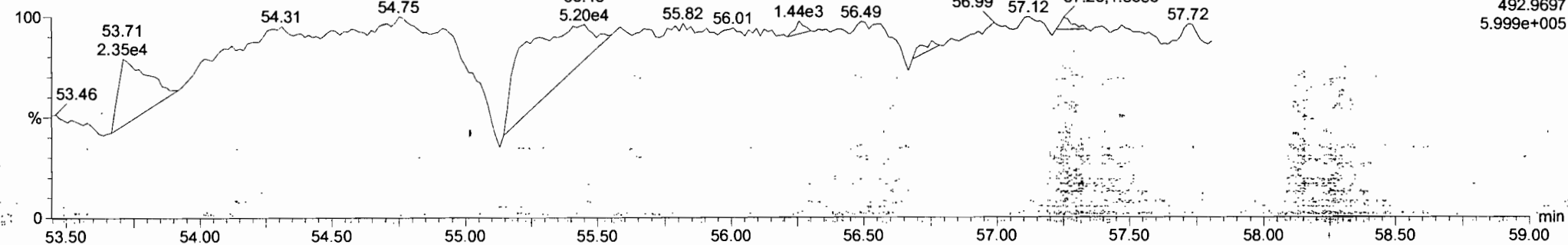
201026K3\_8



F5:Voltage SIR,EI+  
511.7199  
3.511e+006

**PFK5b**

201026K3\_8



F5:Voltage SIR,EI+  
492.9697  
5.999e+005

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-9.qld

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*10-11-3-2020* *CT 11/3/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	3.00e3	2.73	NO	1.17	5.027	15.61	15.61	1.001	1.001	NO	4.549		0.303	4.549
2	2 PCB-2	7.17e3	2.74	NO	1.18	5.027	18.03	18.02	0.988	0.988	NO	10.30		0.311	10.30
3	3 PCB-3	3.49e3	2.76	NO	1.15	5.027	18.26	18.26	1.001	1.001	NO	5.166		0.320	5.166
4	4 PCB-4/10	1.16e4	1.59	NO	1.25	5.027	19.68	19.62	1.004	1.001	NO	17.54		0.657	17.54
5	5 PCB-7/9	2.61e3	1.44	NO	0.960	5.027	21.48	21.44	1.003	1.001	NO	3.146		0.524	3.146
6	6 PCB-6	6.30e3	1.67	NO	1.02	5.027	22.13	22.13	1.033	1.033	NO	7.122		0.491	7.122
7	7 PCB-5/8	2.48e4	1.46	NO	0.992	5.027	22.54	22.53	1.052	1.052	NO	28.90		0.507	28.90
8	8 PCB-14			NO	1.02	5.027	23.68		0.951		YES			0.578	
9	9 PCB-11	6.10e4	1.58	NO	1.13	5.027	24.91	24.91	1.001	1.001	NO	69.75		0.522	69.75
10	10 PCB-12/13	6.39e3	1.44	NO	1.03	5.027	25.34	25.28	1.018	1.016	NO	8.018		0.572	8.018
11	11 PCB-15	3.23e4	1.57	NO	1.03	5.027	25.63	25.62	1.030	1.029	NO	40.15		0.568	40.15
12	12 PCB-19	7.00e3	1.05	NO	1.11	5.027	23.87	23.86	1.001	1.001	NO	19.86		0.790	19.86
13	13 PCB-30			NO	1.79	5.027	24.77		1.039		YES			0.487	
14	14 PCB-18	2.16e4	1.07	NO	0.818	5.027	25.53	25.54	0.952	0.952	NO	49.33		0.621	49.33
15	15 PCB-17	1.12e4	1.04	NO	0.758	5.027	25.72	25.72	0.959	0.959	NO	27.46		0.669	27.46
16	16 PCB-24/27	3.86e3	1.15	NO	1.08	5.027	26.32	26.30	0.981	0.980	NO	6.655		0.469	6.655
17	17 PCB-16/32	1.83e4	1.02	NO	0.925	5.027	26.85	26.85	1.001	1.001	NO	36.88		0.548	36.88
18	18 PCB-34			NO	0.945	5.027	27.66		0.959		YES			0.430	
19	19 PCB-23			NO	0.883	5.027	27.75		0.962		YES			0.461	
20	20 PCB-29			NO	0.893	5.027	28.01		0.971		YES			0.456	
21	21 PCB-26	1.90e4	1.06	NO	0.944	5.027	28.24	28.24	0.979	0.979	NO	21.56		0.431	21.56
22	22 PCB-25	1.15e4	1.10	NO	0.950	5.027	28.39	28.40	0.984	0.985	NO	12.96		0.428	12.96
23	23 PCB-31	8.64e4	1.08	NO	1.04	5.027	28.77	28.76	0.997	0.997	NO	89.25		0.392	89.25
24	24 PCB-28	1.07e5	1.06	NO	1.03	5.027	28.87	28.87	1.001	1.001	NO	111.6		0.397	111.6
25	25 PCB-20/21/33	4.52e4	1.08	NO	0.941	5.027	29.51	29.52	1.023	1.023	NO	51.38		0.432	51.38
26	26 PCB-22	2.84e4	1.08	NO	0.973	5.027	29.95	29.97	1.038	1.039	NO	31.26		0.418	31.26
27	27 PCB-36			NO	1.08	5.027	30.63		0.931		YES			0.401	
28	28 PCB-39			NO	0.988	5.027	31.14		0.947		YES			0.437	
29	29 PCB-38	2.29e3	1.37	YES	1.05	5.027	31.92	31.90	0.970	0.970	NO	2.524		0.410	2.171
30	30 PCB-35	2.75e3	0.83	YES	1.04	5.027	32.47	32.48	0.987	0.988	NO	3.053		0.414	2.718
31	31 PCB-37	3.77e4	1.06	NO	1.01	5.027	32.91	32.91	1.001	1.001	NO	43.29		0.428	43.29
32	32 PCB-54	2.31e3	0.85	NO	1.08	5.027	27.70	27.70	1.001	1.001	NO	4.245		0.311	4.245

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-9.qld

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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	5.30e2	0.78	NO	0.880	5.027	28.91	28.91	1.044	1.044	NO	1.197		0.382	1.197
34	34 PCB-53	1.33e4	0.72	NO	0.997	5.027	29.58	29.58	0.944	0.944	NO	31.11		0.414	31.11
35	35 PCB-51	7.87e3	0.78	NO	1.07	5.027	29.93	29.93	0.955	0.955	NO	17.17		0.388	17.17
36	36 PCB-45	7.23e3	0.78	NO	0.858	5.027	30.38	30.38	0.969	0.969	NO	19.60		0.481	19.60
37	37 PCB-46	3.16e3	0.75	NO	0.831	5.027	30.88	30.88	0.985	0.985	NO	8.839		0.497	8.839
38	38 PCB-52/69	1.02e5	0.78	NO	1.17	5.027	31.38	31.38	1.001	1.001	NO	203.1		0.354	203.1
39	39 PCB-73	7.92e2	0.60	YES	1.44	5.027	31.49	31.47	1.005	1.004	NO	1.276		0.286	1.095
40	40 PCB-43/49	6.89e4	0.77	NO	1.02	5.027	31.67	31.68	1.010	1.011	NO	157.6		0.406	157.6
41	41 PCB-47	4.03e4	0.80	NO	0.922	5.027	31.90	31.90	1.001	1.001	NO	95.07		0.437	95.07
42	42 PCB-48/75	1.34e4	0.74	NO	1.12	5.027	32.01	32.03	1.004	1.005	NO	25.99		0.360	25.99
43	43 PCB-65			NO	1.28	5.027	32.29		1.013		YES			0.314	
44	44 PCB-62			NO	1.13	5.027	32.38		1.016		YES			0.357	
45	45 PCB-44	5.61e4	0.78	NO	0.824	5.027	32.72	32.74	1.026	1.027	NO	148.0		0.489	148.0
46	46 PCB-42/59	2.13e4	0.78	NO	1.05	5.027	32.94	32.98	1.033	1.034	NO	44.07		0.384	44.07
47	47 PCB-41/64/71/72	6.98e4	0.78	NO	1.19	5.027	33.56	33.56	1.053	1.053	NO	127.6		0.339	127.6
48	48 PCB-68	1.23e3	0.90	YES	1.28	5.027	33.82	33.82	1.061	1.061	NO	2.084		0.315	1.940
49	49 PCB-40	7.53e3	0.76	NO	0.602	5.027	34.04	34.02	1.067	1.067	NO	27.18		0.669	27.18
50	50 PCB-57	7.85e2	0.75	NO	1.16	5.027	34.40	34.41	0.969	0.970	NO	1.239		0.270	1.239
51	51 PCB-67	2.43e3	0.83	NO	1.08	5.027	34.71	34.71	0.978	0.978	NO	4.118		0.290	4.118
52	52 PCB-58	7.21e2	0.83	NO	1.20	5.027	34.84	34.82	0.982	0.981	NO	1.099		0.261	1.099
53	53 PCB-63	4.66e3	0.78	NO	1.07	5.027	34.99	34.99	0.986	0.986	NO	7.979		0.293	7.979
54	54 PCB-74	5.26e4	0.79	NO	1.19	5.027	35.29	35.29	0.994	0.994	NO	81.55		0.265	81.55
55	55 PCB-61/70	1.28e5	0.79	NO	1.05	5.027	35.51	35.51	1.000	1.001	NO	222.2		0.298	222.2
56	56 PCB-76/66	1.16e5	0.80	NO	1.16	5.027	35.70	35.74	1.006	1.007	NO	182.1		0.270	182.1
57	57 PCB-80			NO	1.19	5.027	35.97		1.001		YES			0.261	
58	58 PCB-55	2.25e3	0.60	YES	1.17	5.027	36.30	36.26	1.010	1.009	NO	3.363		0.265	2.926
59	59 PCB-56/60	6.17e4	0.83	NO	1.02	5.027	36.79	36.78	1.024	1.023	NO	106.5		0.304	106.5
60	60 PCB-79	3.10e3	0.84	NO	1.14	5.027	37.92	37.91	1.055	1.055	NO	4.779		0.272	4.779
61	61 PCB-78	6.05e2	1.14	YES	1.14	5.027	38.62	38.56	0.987	0.985	NO	0.9364		0.287	0.7763
62	62 PCB-81	7.58e2	0.82	NO	1.05	5.027	39.16	39.18	1.000	1.001	NO	1.277		0.312	1.277
63	63 PCB-77	1.37e4	0.73	NO	1.14	5.027	39.77	39.77	1.000	1.000	NO	21.87		0.296	21.87
64	64 PCB-104	3.77e2	0.89	YES	1.12	5.027	32.61	32.63	1.001	1.001	NO	1.087		0.866	0.8383
65	65 PCB-96	1.35e3	1.39	NO	1.15	5.027	33.92	33.85	1.041	1.039	NO	3.785		0.648	3.785
66	66 PCB-103	2.12e3	1.19	YES	0.936	5.027	34.47	34.41	1.058	1.056	NO	7.333		0.788	6.547
67	67 PCB-100	2.17e3	1.68	NO	0.954	5.027	34.85	34.79	1.069	1.067	NO	7.348		0.784	7.348
68	68 PCB-94	7.35e2	1.05	YES	0.949	5.027	35.27	35.25	0.985	0.985	NO	3.188		0.964	2.619

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-9.qld

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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	7.37e4	1.58	NO	1.20	5.027	35.74	35.83	0.999	1.001	NO	245.6		0.759	245.6
70	70 PCB-93			NO	0.935	5.027	35.89		1.003		YES			0.978	
71	71 PCB-88/91	1.61e4	1.60	NO	1.06	5.027	36.22	36.24	1.012	1.012	NO	60.83		0.859	60.83
72	72 PCB-121			NO	1.71	5.027	36.33		1.015		YES			0.535	
73	73 PCB-84/92	4.10e4	1.62	NO	1.02	5.027	37.17	37.17	0.990	0.990	NO	160.1		0.901	160.1
74	74 PCB-89			NO	1.11	5.027	37.36		0.995		YES			0.829	
75	75 PCB-90/101	1.14e5	1.56	NO	1.12	5.027	37.55	37.58	1.000	1.001	NO	402.9		0.816	402.9
76	76 PCB-113			NO	1.51	5.027	37.80		1.007		YES			0.605	
77	77 PCB-99	5.41e4	1.69	NO	1.32	5.027	37.90	37.91	1.010	1.010	NO	162.7		0.694	162.7
78	78 PCB-119	5.39e3	1.37	NO	1.81	5.027	38.38	38.38	0.987	0.987	NO	12.79		0.566	12.79
79	79 PCB-108/112	4.90e3	1.78	NO	1.44	5.027	38.53	38.54	0.991	0.991	NO	14.53		0.707	14.53
80	80 PCB-83			NO	1.83	5.027	38.71		0.996		YES			0.558	
81	81 PCB-97	2.70e4	1.68	NO	1.28	5.027	38.90	38.92	1.000	1.001	NO	90.32		0.797	90.32
82	82 PCB-86			NO	1.12	5.027	39.07		1.005		YES			0.915	
83	83 PCB-87/117/125	4.06e4	1.65	NO	1.56	5.027	39.19	39.20	1.008	1.008	NO	111.6		0.656	111.6
84	84 PCB-111/115	2.07e3	2.02	YES	1.91	5.027	39.35	39.35	1.012	1.012	NO	4.650		0.525	3.943
85	85 PCB-85/116	1.78e4	1.66	NO	1.41	5.027	39.47	39.48	1.015	1.015	NO	54.14		0.724	54.14
86	86 PCB-120			NO	2.01	5.027	39.74		1.022		YES			0.510	
87	87 PCB-110	1.48e5	1.66	NO	1.74	5.027	39.89	39.88	1.026	1.026	NO	362.6		0.586	362.6
88	88 PCB-82	9.15e3	1.60	NO	0.781	5.027	40.52	40.52	0.975	0.975	NO	39.20		0.989	39.20
89	89 PCB-124	6.01e3	1.82	YES	1.40	5.027	41.23	41.24	0.993	0.993	NO	14.40		0.563	13.09
90	90 PCB-107/109	1.12e4	1.78	NO	1.34	5.027	41.37	41.41	0.996	0.997	NO	27.86		0.576	27.86
91	91 PCB-123	2.41e3	1.08	YES	1.20	5.027	41.56	41.58	1.000	1.001	NO	6.720		0.645	5.722
92	92 PCB-106/118	1.25e5	1.61	NO	1.22	5.027	41.76	41.75	1.001	1.000	NO	328.4		0.603	328.4
93	93 PCB-114	4.75e3	1.51	NO	1.14	5.027	42.43	42.42	1.000	1.000	NO	6.804		0.425	6.804
94	94 PCB-122	2.32e3	1.71	NO	0.944	5.027	42.57	42.56	1.004	1.004	NO	4.013		0.514	4.013
95	95 PCB-105	8.17e4	1.65	NO	1.05	5.027	43.31	43.31	1.000	1.000	NO	127.7		0.467	127.7
96	96 PCB-127			NO	1.06	5.027	43.67		1.000		YES			0.448	
97	97 PCB-126	1.59e3	1.56	NO	1.17	5.027	45.62	45.63	1.000	1.000	NO	2.457		0.475	2.457
98	98 PCB-155	1.68e2	1.76	YES	1.04	5.027	37.09	37.08	1.000	1.000	NO	0.8617		0.380	0.6989
99	99 PCB-150	3.55e2	0.87	YES	1.08	5.027	38.40	38.40	1.036	1.036	NO	1.780		0.376	1.467
100	1... PCB-152	2.28e2	2.56	YES	1.19	5.027	38.88	38.88	1.049	1.049	NO	1.028		0.343	0.6455
101	1... PCB-145			NO	1.19	5.027	39.35		1.061		YES			0.343	
102	1... PCB-136	1.39e4	1.18	NO	1.02	5.027	39.68	39.68	1.070	1.070	NO	72.59		0.399	72.59
103	1... PCB-148	2.79e2	2.09	YES	0.842	5.027	39.79	39.81	1.073	1.074	NO	1.771		0.464	1.282
104	1... PCB-154	1.60e3	1.26	NO	0.919	5.027	40.30	40.31	1.087	1.087	NO	9.324		0.443	9.324

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-9.qld

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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	1.81e4	1.39	NO	0.787	5.027	40.97	40.96	1.105	1.105	NO	122.6		0.518	122.6
106	1... PCB-135	9.48e3	1.38	NO	0.922	5.027	41.19	41.19	1.111	1.111	NO	54.94		0.442	54.94
107	1... PCB-144	3.10e3	1.11	NO	0.789	5.027	41.30	41.28	1.114	1.113	NO	20.97		0.516	20.97
108	1... PCB-147	1.93e3	1.50	YES	0.834	5.027	41.43	41.43	1.117	1.117	NO	12.23		0.486	11.07
109	1... PCB-139/149	6.27e4	1.29	NO	0.948	5.027	41.72	41.69	1.125	1.124	NO	353.7		0.430	353.7
110	1... PCB-140	4.10e2	2.32	YES	0.794	5.027	41.90	41.91	1.130	1.130	NO	2.761		0.513	1.863
111	1... PCB-134/143	8.10e3	1.25	NO	0.759	5.027	42.34	42.37	0.974	0.975	NO	25.47		0.575	25.47
112	1... PCB-131/133	5.66e3	1.39	NO	0.821	5.027	42.67	42.65	0.982	0.981	NO	16.47		0.532	16.47
113	1... PCB-142			NO	0.754	5.027	42.83		0.985		YES			0.579	
114	1... PCB-146/165	3.84e4	1.28	NO	1.02	5.027	43.07	43.07	0.991	0.991	NO	90.27		0.429	90.27
115	1... PCB-132/161	5.12e4	1.26	NO	1.02	5.027	43.31	43.33	0.997	0.997	NO	119.3		0.426	119.3
116	1... PCB-153	2.25e5	1.28	NO	1.07	5.027	43.48	43.48	1.000	1.000	NO	502.3		0.408	502.3
117	1... PCB-168			NO	1.08	5.027	43.71		1.006		YES			0.405	
118	1... PCB-141	3.31e4	1.31	NO	1.03	5.027	44.24	44.24	1.000	1.000	NO	94.12		0.510	94.12
119	1... PCB-137	7.31e3	1.24	NO	1.11	5.027	44.63	44.64	1.009	1.009	NO	19.21		0.472	19.21
120	1... PCB-130	9.12e3	1.21	NO	0.885	5.027	44.73	44.75	1.012	1.012	NO	30.07		0.592	30.07
121	1... PCB-138/163/164	2.36e5	1.26	NO	1.28	5.027	45.13	45.13	1.001	1.001	NO	515.7		0.392	515.7
122	1... PCB-158/160	2.20e4	1.31	NO	1.24	5.027	45.40	45.36	1.007	1.006	NO	49.68		0.406	49.68
123	1... PCB-129	5.72e3	1.23	NO	0.867	5.027	45.63	45.63	1.012	1.012	NO	18.49		0.581	18.49
124	1... PCB-166	5.68e2	1.01	YES	1.14	5.027	46.10	46.10	0.993	0.993	NO	1.226		0.403	1.112
125	1... PCB-159			NO	1.22	5.027	46.45		1.001		YES			0.379	
126	1... PCB-128/162	2.83e4	1.30	NO	0.907	5.027	46.73	46.72	1.007	1.007	NO	77.10		0.508	77.10
127	1... PCB-167	9.24e3	1.13	NO	1.11	5.027	47.14	47.16	1.000	1.001	NO	19.94		0.397	19.94
128	1... PCB-156	2.09e4	1.27	NO	1.13	5.027	48.49	48.49	1.000	1.000	NO	46.01		0.413	46.01
129	1... PCB-157	4.50e3	1.18	NO	1.04	5.027	48.75	48.75	1.000	1.000	NO	10.93		0.451	10.93
130	1... PCB-169			NO	1.16	5.027	51.05		1.000		YES			0.440	
131	1... PCB-188	2.82e2	1.41	YES	1.29	5.027	43.11	43.09	1.001	1.000	NO	0.7386		0.374	0.6295
132	1... PCB-184	2.57e2	0.89	YES	1.23	5.027	43.56	43.54	1.011	1.011	NO	0.7845		0.392	0.6466
133	1... PCB-179	2.63e4	1.07	NO	1.30	5.027	44.36	44.36	1.030	1.030	NO	68.51		0.372	68.51
134	1... PCB-176	6.97e3	1.15	NO	1.31	5.027	44.85	44.85	1.041	1.041	NO	17.99		0.369	17.99
135	1... PCB-186			NO	1.33	5.027	45.47		1.056		YES			0.363	
136	1... PCB-178	9.40e3	1.12	NO	0.943	5.027	45.99	45.99	1.088	1.068	NO	33.64		0.512	33.64
137	1... PCB-175	1.75e3	1.15	NO	0.956	5.027	46.35	46.35	1.076	1.076	NO	6.197		0.505	6.197
138	1... PCB-182/187	5.93e4	1.06	NO	1.07	5.027	46.52	46.52	1.080	1.080	NO	187.8		0.453	187.8
139	1... PCB-183	2.48e4	1.05	NO	1.02	5.027	46.84	46.86	1.088	1.088	NO	81.77		0.472	81.77
140	1... PCB-185	5.10e3	1.04	NO	1.41	5.027	47.53	47.52	0.955	0.954	NO	18.78		0.532	18.78

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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	3.98e4	1.08	NO	1.35	5.027	47.91	47.90	0.962	0.962	NO	152.1		0.552	152.1
142	1... PCB-181	6.55e2	1.12	NO	1.47	5.027	48.02	47.99	0.964	0.964	NO	2.302		0.507	2.302
143	1... PCB-177	2.32e4	1.10	NO	1.28	5.027	48.20	48.18	0.968	0.968	NO	93.83		0.585	93.83
144	1... PCB-171	1.04e4	1.09	NO	1.32	5.027	48.50	48.49	0.974	0.974	NO	40.81		0.568	40.81
145	1... PCB-173	1.05e3	1.49	YES	1.19	5.027	48.93	48.94	0.983	0.983	NO	4.571		0.626	3.769
146	1... PCB-172	6.24e3	0.95	NO	1.38	5.027	49.39	49.40	0.992	0.992	NO	23.51		0.543	23.51
147	1... PCB-192			NO	1.83	5.027	49.60		0.996		YES			0.409	
148	1... PCB-180	9.59e4	1.04	NO	1.41	5.027	49.81	49.81	1.000	1.000	NO	351.8		0.529	351.8
149	1... PCB-193	6.11e3	1.02	NO	1.68	5.027	50.03	50.02	1.005	1.005	NO	18.88		0.446	18.88
150	1... PCB-191	1.99e3	0.81	YES	1.71	5.027	50.29	50.29	1.010	1.010	NO	6.040		0.437	5.263
151	1... PCB-170	3.43e4	1.05	NO	1.40	5.027	51.46	51.48	1.000	1.001	NO	147.7		0.628	147.7
152	1... PCB-190	9.02e3	1.04	NO	1.85	5.027	51.67	51.67	1.005	1.004	NO	29.36		0.475	29.36
153	1... PCB-189	1.83e3	0.91	NO	1.45	5.027	53.17	53.17	1.000	1.000	NO	6.343		0.433	6.343
154	1... PCB-202	4.41e3	0.86	NO	1.17	5.027	48.71	48.69	1.001	1.000	NO	19.60		0.587	19.60
155	1... PCB-201	2.61e3	1.06	YES	1.05	5.027	49.19	49.19	1.010	1.011	NO	12.88		0.582	11.79
156	1... PCB-204			NO	1.14	5.027	49.34		1.014		YES			0.601	
157	1... PCB-197	7.11e2	1.06	YES	1.13	5.027	49.65	49.66	1.020	1.020	NO	3.289		0.806	2.983
158	1... PCB-200	2.55e3	1.14	YES	1.07	5.027	50.59	50.61	1.039	1.040	NO	12.89		0.841	10.95
159	1... PCB-198	8.03e2	0.83	NO	0.794	5.027	52.14	52.18	1.071	1.072	NO	5.252		0.864	5.252
160	1... PCB-199	1.51e4	0.95	NO	0.809	5.027	52.28	52.27	1.074	1.074	NO	96.61		0.848	96.61
161	1... PCB-196/203	1.61e4	0.92	NO	0.838	5.027	52.57	52.58	1.080	1.080	NO	99.64		0.819	99.64
162	1... PCB-195	5.60e3	1.01	NO	1.04	5.027	53.86	53.86	0.984	0.984	NO	20.01		0.672	20.01
163	1... PCB-194	2.29e4	0.93	NO	1.12	5.027	54.77	54.76	1.000	1.000	NO	76.65		0.629	76.65
164	1... PCB-205	1.28e3	0.68	YES	1.29	5.027	55.04	55.04	1.005	1.005	NO	3.718		0.545	3.201
165	1... PCB-208	4.49e3	1.28	NO	0.933	5.027	54.01	54.00	1.000	1.000	NO	19.39		0.562	19.39
166	1... PCB-207	1.93e3	1.20	NO	0.916	5.027	54.33	54.33	1.006	1.006	NO	8.487		0.572	8.487
167	1... PCB-206	1.02e4	1.37	NO	1.01	5.027	56.30	56.30	1.000	1.000	NO	54.79		0.665	54.79
168	1... PCB-209	1.53e4	1.13	NO	0.986	5.027	57.51	57.53	1.000	1.000	NO	87.86		0.674	87.86
169	1... 13C-PCB-1	1.12e6	3.46	NO	0.893	5.027	15.59	15.60	0.609	0.609	NO	1119	56.3	1.28	
170	1... 13C-PCB-3	1.17e6	3.36	NO	0.911	5.027	18.24	18.25	0.712	0.713	NO	1144	57.5	1.25	
171	1... 13C-PCB-4	1.05e6	1.65	NO	0.600	5.027	19.61	19.60	0.766	0.765	NO	1560	78.4	0.769	
172	1... 13C-PCB-9	1.72e6	1.61	NO	0.970	5.027	21.42	21.42	0.837	0.837	NO	1577	79.3	0.476	
173	1... 13C-PCB-11	1.54e6	1.62	NO	0.962	5.027	24.88	24.89	0.972	0.972	NO	1429	71.9	0.480	
174	1... 13C-PCB-19	6.34e5	1.06	NO	0.499	5.027	23.84	23.84	0.931	0.931	NO	1131	56.8	4.48	
175	1... 13C-PCB-32	1.07e6	1.06	NO	0.744	5.027	26.83	26.83	1.048	1.048	NO	1274	64.1	3.00	
176	1... 13C-PCB-28	1.86e6	1.09	NO	1.06	5.027	28.85	28.85	1.004	1.004	NO	1756	88.3	4.00	

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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

	#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1...	13C-PCB-37	1.72e6	1.12	NO	0.989	5.027	32.84	32.89	1.143	1.144	NO	1746	87.7	4.30	
178	1...	13C-PCB-54	1.00e6	0.80	NO	0.999	5.027	27.68	27.68	0.753	0.753	NO	1573	79.0	1.20	
179	1...	13C-PCB-52	8.55e5	0.81	NO	0.804	5.027	31.35	31.34	0.853	0.852	NO	1668	83.8	1.50	
180	1...	13C-PCB-47	9.16e5	0.81	NO	0.857	5.027	31.88	31.88	0.867	0.867	NO	1675	84.2	1.40	
181	1...	13C-PCB-70	1.08e6	0.84	NO	0.996	5.027	35.50	35.49	0.965	0.965	NO	1706	85.8	1.21	
182	1...	13C-PCB-80	1.13e6	0.81	NO	1.03	5.027	35.94	35.94	0.977	0.977	NO	1727	86.8	1.17	
183	1...	13C-PCB-81	1.13e6	0.80	NO	0.988	5.027	39.14	39.14	1.064	1.064	NO	1791	90.0	1.22	
184	1...	13C-PCB-77	1.10e6	0.83	NO	0.969	5.027	39.76	39.76	1.081	1.081	NO	1776	89.3	1.24	
185	1...	13C-PCB-104	6.15e5	1.62	NO	1.02	5.027	32.52	32.59	0.827	0.828	NO	1584	79.6	0.992	
186	1...	13C-PCB-95	4.96e5	1.67	NO	0.805	5.027	35.78	35.79	0.910	0.910	NO	1613	81.1	1.25	
187	1...	13C-PCB-101	5.01e5	1.64	NO	0.793	5.027	37.54	37.54	0.954	0.954	NO	1656	83.2	1.27	
188	1...	13C-PCB-97	4.65e5	1.63	NO	0.696	5.027	38.87	38.88	0.988	0.988	NO	1748	87.9	1.45	
189	1...	13C-PCB-123	5.95e5	1.62	NO	0.933	5.027	41.54	41.54	1.056	1.056	NO	1670	84.0	1.08	
190	1...	13C-PCB-118	6.19e5	1.62	NO	0.986	5.027	41.73	41.73	1.061	1.061	NO	1645	82.7	1.02	
191	1...	13C-PCB-114	1.22e6	1.61	NO	1.55	5.027	42.40	42.40	0.908	0.908	NO	2378	120	1.30	
192	1...	13C-PCB-105	1.21e6	1.61	NO	1.57	5.027	43.31	43.29	0.927	0.927	NO	2326	117	1.27	
193	1...	13C-PCB-127	1.27e6	1.61	NO	1.62	5.027	43.65	43.65	0.935	0.935	NO	2354	118	1.23	
194	1...	13C-PCB-126	1.10e6	1.61	NO	1.57	5.027	45.61	45.61	0.976	0.976	NO	2112	106	1.28	
195	1...	13C-PCB-155	3.72e5	1.30	NO	0.615	5.027	37.07	37.08	0.942	0.942	NO	1587	79.8	0.762	
196	1...	13C-PCB-153	8.33e5	1.29	NO	1.36	5.027	43.46	43.47	0.930	0.931	NO	1844	92.7	1.54	
197	1...	13C-PCB-141	6.82e5	1.28	NO	1.13	5.027	44.24	44.22	0.947	0.947	NO	1825	91.8	1.86	
198	1...	13C-PCB-138	7.11e5	1.26	NO	1.18	5.027	45.09	45.10	0.965	0.966	NO	1811	91.1	1.78	
199	1...	13C-PCB-159	8.06e5	1.31	NO	1.44	5.027	46.43	46.42	0.994	0.994	NO	1691	85.0	1.46	
200	2...	13C-PCB-167	8.31e5	1.27	NO	1.44	5.027	47.13	47.12	1.009	1.009	NO	1743	87.6	1.46	
201	2...	13C-PCB-156	8.04e5	1.29	NO	1.40	5.027	48.47	48.47	1.038	1.038	NO	1738	87.3	1.51	
202	2...	13C-PCB-157	7.88e5	1.29	NO	1.40	5.027	48.76	48.73	1.044	1.043	NO	1704	85.7	1.51	
203	2...	13C-PCB-169	7.47e5	1.27	NO	1.33	5.027	51.03	51.03	1.093	1.092	NO	1695	85.2	1.58	
204	2...	13C-PCB-188	5.89e5	0.47	NO	1.41	5.027	43.06	43.07	0.926	0.926	NO	1846	92.8	0.871	
205	2...	13C-PCB-180	3.84e5	0.47	NO	0.929	5.027	49.78	49.79	1.070	1.070	NO	1826	91.8	1.32	
206	2...	13C-PCB-170	3.30e5	0.47	NO	0.794	5.027	51.44	51.44	1.106	1.106	NO	1835	92.2	1.55	
207	2...	13C-PCB-189	3.94e5	0.46	NO	1.04	5.027	53.15	53.15	1.143	1.143	NO	1667	83.8	1.17	
208	2...	13C-PCB-202	3.83e5	0.91	NO	1.04	5.027	48.68	48.67	1.046	1.046	NO	1633	82.1	1.02	
209	2...	13C-PCB-194	5.33e5	0.93	NO	0.768	5.027	54.75	54.75	0.995	0.995	NO	2181	110	1.95	
210	2...	13C-PCB-208	4.94e5	0.80	NO	0.991	5.027	53.99	53.99	0.981	0.981	NO	1565	78.7	1.19	
211	2...	13C-PCB-206	3.68e5	0.78	NO	0.552	5.027	56.29	56.29	1.023	1.023	NO	2094	105	2.13	
212	2...	13C-PCB-209	3.52e5	1.19	NO	0.396	5.027	57.53	57.51	1.046	1.045	NO	2786	140	1.04	



Dataset: U:\VG11.PRO\Results\201026K3\201026K3-9.qld

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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	2.24e6	1.62	NO	1.00	5.027	25.58	25.60	1.000	0.000	NO	1989	100	0.461	
214	2... 13C-PCB-31	1.98e6	1.08	NO	1.00	5.027	28.72	28.74	1.000	0.000	NO	1989	100	4.26	
215	2... 13C-PCB-60	1.27e6	0.81	NO	1.00	5.027	36.74	36.78	1.000	0.000	NO	1989	100	1.20	
216	2... 13C-PCB-111	7.59e5	1.65	NO	1.00	5.027	39.33	39.35	1.000	0.000	NO	1989	100	1.01	
217	2... 13C-PCB-128	6.59e5	1.26	NO	1.00	5.027	46.67	46.71	1.000	0.000	NO	1989	100	2.10	
218	2... 13C-PCB-182	4.50e5	0.47	NO	1.00	5.027	46.50	46.51	0.000	0.000	NO	1989	100	1.23	
219	2... 13C-PCB-205	6.33e5	0.94	NO	1.00	5.027	55.01	55.03	1.000	0.000	NO	1989	100	1.50	
220	2... 13C-PCB-79	1.29e6	0.83	NO	1.07	5.027	37.88	37.88	1.030	1.030	NO	1889	94.9	1.13	
221	2... 13C-PCB-178	3.95e5	0.45	NO	0.766	5.027	45.97	45.97	0.988	0.988	NO	1557	78.3	1.14	
222	2... 13C-PCB-79	1.29e6	0.83	NO	1.08	5.027	37.87	37.88	0.968	0.968	NO	2097	105	1.28	
223	2... 13C-PCB-178	3.95e5	0.45	NO	1.05	5.027	45.98	45.97	0.923	0.923	NO	1948	97.9	1.37	
224	2... Total Mono-PCBs				1.17	5.027	0.00		0.000		NO	20.02		0.936	20.02
225	2... Total Di-PCBs				1.05	5.027	0.00		0.000		NO	174.6		4.42	174.6
226	2... 2nd Function Tri-PCBs				1.08	5.027	0.00		0.000		NO	140.2		3.58	140.2
227	2... 3rd Function Tri-PCBs				0.983	5.027	0.00		0.000		NO	361.3		5.93	366.2
228	2... Total Tetra-PCBs				1.08	5.027	0.00		0.000		NO	1546		4.1	1552
229	2... 3rd Function Penta-PCBs				1.32	5.027	0.00		0.000		NO	2085		20.8	2118
230	2... 4th Function Penta-PCBs				1.07	5.027	0.00		0.000		NO	141.0		2.33	141.0
231	2... 3rd Function Hexa-PCBs				0.951	5.027	0.00		0.000		NO	634.2		5.68	651.2
232	2... 4th Function Hexa-PCBs				1.03	5.027	0.00		0.000		NO	1635		9.30	1636
233	2... Total Hepta-PCBs				1.36	5.027	0.00		0.000		NO	1281		11.1	1292
234	2... 4th Function Octa-PCBs				1.00	5.027	0.00		0.000		NO	221.1		5.62	246.8
235	2... 5th Function Octa-PCBs				1.15	5.027	0.00		0.000		NO	96.66		1.85	99.86
236	2... Total Nona-PCBs				0.952	5.027	0.00		0.000		NO	82.67		1.80	82.67
237	2... Deca-CB				0.986	5.027	0.00		0.000		NO	87.86		0.674	87.86
238	2... Total PCBs														

Handwritten notes on the right side of the table:  
 > 501.5 -  
 > 2226 -  
 > 2269.2 -  
 > 317.76 -  
 > 506.4 -  
 > 2259 -  
 > 2287.2 -  
 > 346.66 -

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-9.qld

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
 Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

**Total Mono-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-1	15.61	15.61	3.662e4	1.551e4	2.197e3	8.045e2	2.73	NO	3.002e3	4.5495	4.5495	0.303
2	PCB-2	18.03	18.02	8.391e4	2.848e4	5.257e3	1.915e3	2.74	NO	7.172e3	10.303	10.303	0.311
3	PCB-3	18.26	18.26	4.262e4	1.515e4	2.563e3	9.282e2	2.76	NO	3.492e3	5.1658	5.1658	0.320

**Total Di-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-4/10	19.68	19.62	1.069e5	6.326e4	7.111e3	4.460e3	1.59	NO	1.157e4	17.539	17.539	0.657
2	PCB-7/9	21.48	21.44	1.574e4	1.427e4	1.538e3	1.070e3	1.44	NO	2.608e3	3.1456	3.1456	0.524
3	PCB-6	22.13	22.13	6.077e4	3.771e4	3.937e3	2.358e3	1.67	NO	6.295e3	7.1215	7.1215	0.491
4	PCB-5/8	22.54	22.53	2.262e5	1.463e5	1.470e4	1.007e4	1.46	NO	2.478e4	28.903	28.903	0.507
5	PCB-11	24.91	24.91	5.624e5	3.568e5	3.738e4	2.362e4	1.58	NO	6.099e4	69.755	69.755	0.522
6	PCB-12/13	25.34	25.28	4.769e4	2.505e4	3.768e3	2.623e3	1.44	NO	6.391e3	8.0183	8.0183	0.572
7	PCB-15	25.63	25.62	2.950e5	1.855e5	1.972e4	1.254e4	1.57	NO	3.226e4	40.155	40.155	0.568

**2nd Function Tri-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-19	23.87	23.86	5.055e4	5.200e4	3.580e3	3.423e3	1.05	NO	7.002e3	19.864	19.864	0.790
2	PCB-18	25.53	25.54	1.648e5	1.564e5	1.114e4	1.046e4	1.07	NO	2.161e4	49.333	49.333	0.621
3	PCB-17	25.72	25.72	8.878e4	8.135e4	5.687e3	5.469e3	1.04	NO	1.116e4	27.465	27.465	0.669
4	PCB-24/27	26.32	26.30	2.741e4	2.995e4	2.062e3	1.795e3	1.15	NO	3.857e3	6.6555	6.6555	0.469
5	PCB-16/32	26.85	26.85	9.693e4	9.809e4	9.235e3	9.044e3	1.02	NO	1.828e4	36.879	36.879	0.548

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3rd Function Tri-PCBs

	Name	Pred.R	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-26	28.24	28.24	1.254e5	1.227e5	9.798e3	9.209e3	1.06	NO	1.901e4	21.560	21.560	0.431
2	PCB-25	28.39	28.40	7.444e4	7.036e4	6.029e3	5.467e3	1.10	NO	1.150e4	12.959	12.959	0.428
3	PCB-31	28.77	28.76	5.832e5	5.378e5	4.479e4	4.159e4	1.08	NO	8.638e4	89.254	89.254	0.392
4	PCB-28	28.87	28.87	7.070e5	6.603e5	5.490e4	5.192e4	1.06	NO	1.068e5	111.59	111.59	0.397
5	PCB-20/21/33	29.51	29.52	2.648e5	2.474e5	2.344e4	2.173e4	1.08	NO	4.517e4	51.384	51.384	0.432
6	PCB-22	29.95	29.97	1.777e5	1.751e5	1.473e4	1.368e4	1.08	NO	2.841e4	31.264	31.264	0.418
7	PCB-38	31.92	31.90	1.603e4	1.135e4	1.325e3	9.657e2	1.37	YES	2.291e3	0.00000	2.1705	0.410
8	PCB-35	32.47	32.48	1.597e4	1.729e4	1.248e3	1.501e3	0.83	YES	2.749e3	0.00000	2.7178	0.414
9	PCB-37	32.91	32.91	2.374e5	2.240e5	1.940e4	1.829e4	1.06	NO	3.769e4	43.287	43.287	0.428

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ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

Total Tetra-PCBs

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-54	27.70	27.70	1.393e4	1.548e4	1.062e3	1.247e3	0.85	NO	2.310e3	4.2452	4.2452	0.311
2 PCB-50	28.91	28.91	3.269e3	3.345e3	2.320e2	2.984e2	0.78	NO	5.304e2	1.1969	1.1969	0.382
3 PCB-53	29.58	29.58	7.179e4	1.051e5	5.563e3	7.769e3	0.72	NO	1.333e4	31.109	31.109	0.414
4 PCB-51	29.93	29.93	4.343e4	5.660e4	3.447e3	4.418e3	0.78	NO	7.865e3	17.173	17.173	0.388
5 PCB-45	30.38	30.38	4.096e4	5.197e4	3.163e3	4.071e3	0.78	NO	7.234e3	19.599	19.599	0.481
6 PCB-46	30.88	30.88	1.699e4	2.373e4	1.358e3	1.799e3	0.75	NO	3.157e3	8.8388	8.8388	0.497
7 PCB-52/69	31.38	31.38	5.419e5	7.097e5	4.476e4	5.713e4	0.78	NO	1.019e5	203.15	203.15	0.354
8 PCB-73	31.49	31.47	5.327e3	8.781e3	2.956e2	4.963e2	0.60	YES	7.919e2	0.00000	1.0951	0.286
9 PCB-43/49	31.67	31.68	3.646e5	4.806e5	3.003e4	3.882e4	0.77	NO	6.885e4	157.59	157.59	0.406
10 PCB-47	31.90	31.90	2.125e5	2.682e5	1.788e4	2.247e4	0.80	NO	4.035e4	95.071	95.071	0.437
11 PCB-48/75	32.01	32.03	6.711e4	9.129e4	5.701e3	7.703e3	0.74	NO	1.340e4	25.990	25.990	0.360
12 PCB-44	32.72	32.74	3.196e5	4.189e5	2.452e4	3.162e4	0.78	NO	5.614e4	147.96	147.96	0.489
13 PCB-42/59	32.94	32.98	1.173e5	1.575e5	9.337e3	1.196e4	0.78	NO	2.130e4	44.067	44.067	0.384
14 PCB-41/64/71/72	33.56	33.56	3.715e5	4.756e5	3.059e4	3.918e4	0.78	NO	6.977e4	127.64	127.64	0.339
15 PCB-68	33.82	33.82	7.067e3	7.726e3	5.815e2	6.448e2	0.90	YES	1.226e3	0.00000	1.9399	0.315
16 PCB-40	34.04	34.02	4.344e4	5.450e4	3.258e3	4.275e3	0.76	NO	7.533e3	27.179	27.179	0.669
17 PCB-57	34.40	34.41	3.987e3	5.647e3	3.376e2	4.474e2	0.75	NO	7.850e2	1.2392	1.2392	0.270
18 PCB-67	34.71	34.71	1.417e4	1.690e4	1.103e3	1.328e3	0.83	NO	2.432e3	4.1176	4.1176	0.290
19 PCB-58	34.84	34.82	3.683e3	5.120e3	3.274e2	3.934e2	0.83	NO	7.208e2	1.0990	1.0990	0.261
20 PCB-63	34.99	34.99	2.597e4	3.025e4	2.037e3	2.621e3	0.78	NO	4.659e3	7.9788	7.9788	0.293
21 PCB-74	35.29	35.29	2.796e5	3.601e5	2.325e4	2.939e4	0.79	NO	5.265e4	81.554	81.554	0.265
22 PCB-61/70	35.51	35.51	7.183e5	9.220e5	5.620e4	7.141e4	0.79	NO	1.276e5	222.22	222.22	0.298
23 PCB-76/66	35.70	35.74	6.249e5	7.658e5	5.125e4	6.427e4	0.80	NO	1.155e5	182.13	182.13	0.270
24 PCB-55	36.30	36.26	8.676e3	1.648e4	8.468e2	1.404e3	0.60	YES	2.251e3	0.00000	2.9257	0.265
25 PCB-56/60	36.79	36.78	3.445e5	4.217e5	2.792e4	3.380e4	0.83	NO	6.173e4	106.54	106.54	0.304
26 PCB-79	37.92	37.91	1.701e4	1.950e4	1.414e3	1.682e3	0.84	NO	3.097e3	4.7793	4.7793	0.272
27 PCB-78	38.62	38.56	3.909e3	3.573e3	3.222e2	2.828e2	1.14	YES	6.050e2	0.00000	0.77631	0.287
28 PCB-81	39.16	39.18	1.036e4	1.443e4	3.409e2	4.172e2	0.82	NO	7.582e2	1.2771	1.2771	0.312
29 PCB-77	39.77	39.77	6.810e4	9.745e4	5.799e3	7.917e3	0.73	NO	1.372e4	21.866	21.866	0.296

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ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

3rd Function Penta-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-104	32.61	32.63	2.430e3	2.378e3	1.771e2	1.998e2	0.89	YES	3.769e2	0.00000	0.83826	0.666
2	PCB-96	33.92	33.85	1.056e4	7.871e3	7.836e2	5.656e2	1.39	NO	1.349e3	3.7846	3.7846	0.648
3	PCB-103	34.47	34.41	1.597e4	1.252e4	1.154e3	9.674e2	1.19	YES	2.122e3	0.00000	6.5472	0.798
4	PCB-100	34.85	34.79	1.760e4	9.964e3	1.356e3	8.090e2	1.68	NO	2.165e3	7.3484	7.3484	0.784
5	PCB-94	35.27	35.25	3.686e3	4.150e3	3.772e2	3.576e2	1.05	YES	7.348e2	0.00000	2.6186	0.964
6	PCB-95/98/102	35.74	35.83	5.517e5	3.347e5	4.512e4	2.857e4	1.58	NO	7.369e4	245.58	245.58	0.759
7	PCB-88/91	36.22	36.24	1.288e5	7.698e4	9.939e3	6.200e3	1.60	NO	1.614e4	60.835	60.835	0.859
8	PCB-84/92	37.17	37.17	3.253e5	1.983e5	2.536e4	1.566e4	1.62	NO	4.102e4	160.06	160.06	0.901
9	PCB-90/101	37.55	37.58	8.267e5	5.322e5	6.939e4	4.450e4	1.56	NO	1.139e5	402.91	402.91	0.816
10	PCB-99	37.90	37.91	4.196e5	2.463e5	3.401e4	2.012e4	1.69	NO	5.412e4	162.71	162.71	0.694
11	PCB-119	38.38	38.38	4.219e4	2.713e4	3.116e3	2.275e3	1.37	NO	5.390e3	12.787	12.787	0.566
12	PCB-108/112	38.53	38.54	3.794e4	2.163e4	3.137e3	1.764e3	1.78	NO	4.901e3	14.526	14.526	0.707
13	PCB-97	38.90	38.92	2.118e5	1.280e5	1.695e4	1.009e4	1.68	NO	2.704e4	90.324	90.324	0.797
14	PCB-87/117/125	39.19	39.20	3.048e5	1.911e5	2.528e4	1.535e4	1.65	NO	4.063e4	111.62	111.62	0.656
15	PCB-111/115	39.35	39.35	2.015e4	1.088e4	1.388e3	6.870e2	2.02	YES	2.075e3	0.00000	3.9427	0.535
16	PCB-85/116	39.47	39.48	1.312e5	8.202e4	1.113e4	6.706e3	1.66	NO	1.784e4	54.140	54.140	0.724
17	PCB-110	39.89	39.88	1.165e6	7.016e5	9.218e4	5.538e4	1.66	NO	1.476e5	362.64	362.64	0.586
18	PCB-82	40.52	40.52	6.898e4	4.622e4	5.628e3	3.527e3	1.60	NO	9.155e3	39.197	39.197	0.989
19	PCB-124	41.23	41.24	3.726e4	2.189e4	3.877e3	2.135e3	1.82	YES	6.013e3	0.00000	13.092	0.553
20	PCB-107/109	41.37	41.41	8.465e4	4.921e4	7.161e3	4.016e3	1.78	NO	1.118e4	27.863	27.863	0.576
21	PCB-123	41.56	41.58	1.458e4	1.298e4	1.249e3	1.161e3	1.08	YES	2.410e3	0.00000	5.7216	0.645
22	PCB-106/118	41.76	41.75	9.190e5	5.803e5	7.680e4	4.778e4	1.61	NO	1.246e5	328.45	328.45	0.603

4th Function Penta-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-114	42.43	42.42	3.386e4	2.045e4	2.862e3	1.890e3	1.51	NO	4.752e3	6.8039	6.8039	0.425
2	PCB-122	42.57	42.56	1.712e4	8.600e3	1.463e3	8.563e2	1.71	NO	2.319e3	4.0129	4.0129	0.514
3	PCB-105	43.31	43.31	6.241e5	3.708e5	5.088e4	3.079e4	1.65	NO	8.168e4	127.70	127.70	0.467
4	PCB-126	45.62	45.63	1.079e4	6.984e3	9.685e2	6.189e2	1.56	NO	1.587e3	2.4569	2.4569	0.475

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3rd Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-155	37.09	37.08	1.462e3	1.096e3	1.074e2	6.094e1	1.76	YES	1.683e2	0.00000	0.69891	0.390
2	PCB-150	38.40	38.40	1.972e3	3.074e3	1.647e2	1.902e2	0.87	YES	3.549e2	0.00000	1.4669	0.376
3	PCB-152	38.88	38.88	2.344e3	1.029e3	1.639e2	6.399e1	2.56	YES	2.279e2	0.00000	0.64551	0.343
4	PCB-136	39.68	39.68	9.041e4	8.114e4	7.494e3	6.377e3	1.18	NO	1.387e4	72.594	72.594	0.399
5	PCB-148	39.79	39.81	2.966e3	1.771e3	1.888e2	9.014e1	2.09	YES	2.790e2	0.00000	1.2820	0.484
6	PCB-154	40.30	40.31	1.044e4	8.519e3	8.939e2	7.098e2	1.26	NO	1.604e3	9.3245	9.3245	0.443
7	PCB-151	40.97	40.96	1.324e5	9.119e4	1.049e4	7.559e3	1.39	NO	1.805e4	122.63	122.63	0.518
8	PCB-135	41.19	41.19	7.016e4	5.101e4	5.496e3	3.987e3	1.38	NO	9.483e3	54.939	54.939	0.442
9	PCB-144	41.30	41.28	1.881e4	1.719e4	1.631e3	1.466e3	1.11	NO	3.097e3	20.973	20.973	0.516
10	PCB-147	41.43	41.43	1.296e4	9.824e3	1.154e3	7.718e2	1.50	YES	1.926e3	0.00000	11.069	0.488
11	PCB-139/149	41.72	41.69	4.410e5	3.365e5	3.530e4	2.745e4	1.29	NO	6.275e4	353.75	353.75	0.430
12	PCB-140	41.90	41.91	3.826e3	1.671e3	2.866e2	1.235e2	2.32	YES	4.102e2	0.00000	1.8631	0.513

4th Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-134/143	42.34	42.37	4.967e4	4.138e4	4.496e3	3.602e3	1.25	NO	8.097e3	25.471	25.471	0.575
2	PCB-131/133	42.67	42.65	3.983e4	2.639e4	3.292e3	2.371e3	1.39	NO	5.662e3	16.469	16.469	0.532
3	PCB-146/165	43.07	43.07	2.602e5	2.138e5	2.162e4	1.682e4	1.28	NO	3.844e4	90.270	90.270	0.429
4	PCB-132/161	43.31	43.33	3.642e5	2.894e5	2.849e4	2.268e4	1.26	NO	5.117e4	119.27	119.27	0.426
5	PCB-153	43.48	43.48	1.555e6	1.203e6	1.267e5	9.860e4	1.28	NO	2.253e5	502.30	502.30	0.408
6	PCB-141	44.24	44.24	2.280e5	1.753e5	1.878e4	1.433e4	1.31	NO	3.311e4	94.123	94.123	0.510
7	PCB-137	44.63	44.64	4.681e4	3.899e4	4.045e3	3.263e3	1.24	NO	7.308e3	19.209	19.209	0.472
8	PCB-130	44.73	44.75	6.646e4	5.256e4	4.991e3	4.130e3	1.21	NO	9.121e3	30.069	30.069	0.592
9	PCB-138/163/164	45.13	45.13	1.390e6	1.099e6	1.318e5	1.046e5	1.26	NO	2.364e5	515.67	515.67	0.392
10	PCB-158/160	45.40	45.36	1.504e5	1.116e5	1.247e4	9.528e3	1.31	NO	2.200e4	49.682	49.682	0.406
11	PCB-129	45.63	45.63	3.823e4	3.102e4	3.161e3	2.563e3	1.23	NO	5.723e3	18.491	18.491	0.581
12	PCB-166	46.10	46.10	3.747e3	3.416e3	2.850e2	2.827e2	1.01	YES	5.677e2	0.00000	1.1119	0.403
13	PCB-128/162	46.73	46.72	1.819e5	1.359e5	1.601e4	1.233e4	1.30	NO	2.834e4	77.103	77.103	0.508
14	PCB-167	47.14	47.16	5.767e4	5.056e4	4.899e3	4.337e3	1.13	NO	9.236e3	19.940	19.940	0.397
15	PCB-156	48.49	48.49	1.339e5	1.098e5	1.169e4	9.236e3	1.27	NO	2.092e4	46.006	46.006	0.413
16	PCB-157	48.75	48.75	2.775e4	2.469e4	2.431e3	2.066e3	1.18	NO	4.497e3	10.933	10.933	0.451

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**Total Hepta-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-188	43.11	43.09	1.640e3	1.300e3	1.648e2	1.173e2	1.41	YES	2.820e2	0.00000	0.62953	0.374
2	PCB-184	43.56	43.54	2.091e3	2.167e3	1.208e2	1.361e2	0.89	YES	2.569e2	0.00000	0.64662	0.392
3	PCB-179	44.36	44.36	1.599e5	1.564e5	1.362e4	1.272e4	1.07	NO	2.633e4	68.514	68.514	0.372
4	PCB-176	44.85	44.85	4.413e4	3.753e4	3.727e3	3.245e3	1.15	NO	6.971e3	17.991	17.991	0.369
5	PCB-178	45.99	45.99	6.035e4	5.278e4	4.960e3	4.435e3	1.12	NO	9.395e3	33.640	33.640	0.512
6	PCB-175	46.35	46.35	1.126e4	1.110e4	9.399e2	8.147e2	1.15	NO	1.755e3	6.1970	6.1970	0.505
7	PCB-182/187	46.52	46.52	3.596e5	3.447e5	3.048e4	2.880e4	1.06	NO	5.928e4	187.79	187.79	0.453
8	PCB-183	46.84	46.86	1.534e5	1.480e5	1.269e4	1.207e4	1.05	NO	2.476e4	81.772	81.772	0.472
9	PCB-185	47.53	47.52	2.994e4	2.988e4	2.604e3	2.493e3	1.04	NO	5.097e3	18.778	18.778	0.532
10	PCB-174	47.91	47.90	2.521e5	2.279e5	2.062e4	1.915e4	1.08	NO	3.977e4	152.14	152.14	0.552
11	PCB-181	48.02	47.99	6.536e3	7.962e3	3.468e2	3.086e2	1.12	NO	6.554e2	2.3019	2.3019	0.507
12	PCB-177	48.20	48.18	1.479e5	1.289e5	1.212e4	1.104e4	1.10	NO	2.315e4	93.830	93.830	0.585
13	PCB-171	48.50	48.49	6.376e4	6.046e4	5.404e3	4.968e3	1.09	NO	1.037e4	40.810	40.810	0.568
14	PCB-173	48.93	48.94	6.853e3	4.712e3	6.278e2	4.225e2	1.49	YES	1.050e3	0.00000	3.7692	0.628
15	PCB-172	49.39	49.40	3.640e4	3.661e4	3.046e3	3.196e3	0.95	NO	6.242e3	23.508	23.508	0.543
16	PCB-180	49.81	49.81	5.949e5	5.655e5	4.881e4	4.710e4	1.04	NO	9.591e4	351.83	351.83	0.529
17	PCB-193	50.03	50.02	3.911e4	3.501e4	3.086e3	3.027e3	1.02	NO	6.113e3	18.880	18.880	0.446
18	PCB-191	50.29	50.29	1.098e4	1.206e4	8.902e2	1.104e3	0.81	YES	1.994e3	0.00000	5.2630	0.437
19	PCB-170	51.46	51.48	2.098e5	2.017e5	1.754e4	1.678e4	1.05	NO	3.432e4	147.69	147.69	0.628
20	PCB-190	51.67	51.67	5.635e4	5.590e4	4.607e3	4.409e3	1.04	NO	9.016e3	29.359	29.359	0.475
21	PCB-189	53.17	53.17	1.238e4	1.114e4	8.719e2	9.539e2	0.91	NO	1.826e3	6.3429	6.3429	0.433

**4th Function Octa-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-202	48.71	48.69	2.408e4	2.771e4	2.036e3	2.374e3	0.86	NO	4.410e3	19.603	19.603	0.587
2	PCB-201	49.19	49.19	1.631e4	1.341e4	1.346e3	1.264e3	1.06	YES	2.610e3	0.00000	11.788	0.652
3	PCB-197	49.65	49.66	3.444e3	4.941e3	3.666e2	3.442e2	1.06	YES	7.107e2	0.00000	2.9826	0.606
4	PCB-200	50.59	50.61	1.581e4	1.537e4	1.358e3	1.194e3	1.14	YES	2.553e3	0.00000	10.954	0.641
5	PCB-198	52.14	52.18	4.177e3	6.086e3	3.649e2	4.379e2	0.83	NO	8.029e2	5.2524	5.2524	0.864
6	PCB-199	52.28	52.27	9.937e4	1.022e5	7.341e3	7.713e3	0.95	NO	1.505e4	96.609	96.609	0.848
7	PCB-196/203	52.57	52.58	1.059e5	1.105e5	7.687e3	8.394e3	0.92	NO	1.608e4	99.639	99.639	0.819

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5th Function Octa-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-195	53.86	53.86	4.240e4	4.147e4	2.814e3	2.789e3	1.01	NO	5.603e3	20.012	20.012	0.672
2	PCB-194	54.77	54.76	1.929e5	2.034e5	1.102e4	1.191e4	0.93	NO	2.293e4	76.650	76.650	0.629
3	PCB-205	55.04	55.04	9.096e3	1.320e4	5.210e2	7.640e2	0.68	YES	1.285e3	0.00000	3.2012	0.545

Total Nona-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-208	54.01	54.00	4.195e4	3.360e4	2.518e3	1.971e3	1.28	NO	4.489e3	19.387	19.387	0.562
2	PCB-207	54.33	54.33	1.614e4	1.359e4	1.051e3	8.783e2	1.20	NO	1.930e3	8.4870	8.4870	0.572
3	PCB-206	56.30	56.30	1.039e5	7.676e4	5.894e3	4.317e3	1.37	NO	1.021e4	54.794	54.794	0.665

Deca-CB

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-209	57.51	57.53	1.529e5	1.330e5	8.108e3	7.207e3	1.13	NO	1.531e4	87.857	87.857	0.674

Total PCBs

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

Total Mono-Isotopes

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-1	15.59	15.60	1.474e7	4.331e6	8.717e5	2.518e5	3.46	NO	1.124e6	1119.1		1.28
2	13C-PCB-3	18.24	18.25	1.411e7	4.301e6	9.021e5	2.688e5	3.36	NO	1.171e6	1144.0		1.25



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**Total Di-Isotopes**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-4	19.61	19.60	1.023e7	6.219e6	6.543e5	3.974e5	1.65	NO	1.052e6	1560.1		0.769
2 13C-PCB-9	21.42	21.42	1.654e7	1.024e7	1.061e6	6.573e5	1.61	NO	1.718e6	1577.1		0.476
3 13C-PCB-11	24.88	24.89	1.419e7	8.721e6	9.559e5	5.885e5	1.62	NO	1.544e6	1429.5		0.480
4 13C-PCB-15	25.58	25.60	2.068e7	1.286e7	1.382e6	8.530e5	1.62	NO	2.235e6	1989.4		0.461

**2nd Function Tri-Isotopes**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-19	23.84	23.84	4.736e6	4.646e6	3.259e5	3.080e5	1.06	NO	6.339e5	1130.9		4.48
2 13C-PCB-32	26.83	26.83	8.185e6	7.784e6	5.494e5	5.161e5	1.06	NO	1.065e6	1274.4		3.00

**3rd Function Tri-Isotopes**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-31	28.72	28.74	1.353e7	1.262e7	1.026e6	9.514e5	1.08	NO	1.978e6	1989.4		4.26
2 13C-PCB-28	28.85	28.85	1.266e7	1.173e7	9.677e5	8.903e5	1.09	NO	1.858e6	1756.1		4.00
3 13C-PCB-37	32.84	32.89	1.211e7	1.077e7	9.077e5	8.088e5	1.12	NO	1.717e6	1745.7		4.30

**Tetra-Isotopes**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 13C-PCB-54	27.68	27.68	5.868e6	7.381e6	4.448e5	5.576e5	0.80	NO	1.002e6	1572.6		1.20
2 13C-PCB-52	31.35	31.34	4.819e6	5.882e6	3.826e5	4.727e5	0.81	NO	8.553e5	1667.5		1.50
3 13C-PCB-47	31.88	31.88	4.947e6	6.044e6	4.105e5	5.053e5	0.81	NO	9.159e5	1674.9		1.40
4 13C-PCB-70	35.50	35.49	6.456e6	7.693e6	4.940e5	5.897e5	0.84	NO	1.084e6	1706.2		1.21
5 13C-PCB-80	35.94	35.94	6.421e6	7.941e6	5.057e5	6.266e5	0.81	NO	1.132e6	1726.5		1.17
6 13C-PCB-60	36.74	36.78	7.047e6	8.606e6	5.696e5	6.993e5	0.81	NO	1.269e6	1989.4		1.20
7 13C-PCB-79	37.88	37.88	7.526e6	9.043e6	5.827e5	7.049e5	0.83	NO	1.288e6	1888.6		1.13
8 13C-PCB-81	39.14	39.14	6.060e6	7.654e6	5.019e5	6.268e5	0.80	NO	1.129e6	1791.1		1.22
9 13C-PCB-77	39.76	39.76	5.971e6	7.453e6	4.966e5	6.010e5	0.83	NO	1.098e6	1776.4		1.24

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3rd Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-104	32.52	32.59	4.750e6	2.942e6	3.797e5	2.350e5	1.62	NO	6.147e5	1584.4		0.992
2	13C-PCB-95	35.78	35.79	3.930e6	2.393e6	3.098e5	1.859e5	1.67	NO	4.956e5	1612.7		1.25
3	13C-PCB-101	37.54	37.54	3.900e6	2.325e6	3.115e5	1.894e5	1.64	NO	5.009e5	1656.0		1.27
4	13C-PCB-97	38.87	38.88	3.485e6	2.141e6	2.879e5	1.767e5	1.63	NO	4.645e5	1747.8		1.45
5	13C-PCB-111	39.33	39.35	5.962e6	3.568e6	4.732e5	2.861e5	1.65	NO	7.593e5	1989.4		1.01
6	13C-PCB-123	41.54	41.54	4.598e6	2.878e6	3.675e5	2.273e5	1.62	NO	5.947e5	1670.3		1.08
7	13C-PCB-118	41.73	41.73	4.832e6	2.978e6	3.826e5	2.362e5	1.62	NO	6.188e5	1645.0		1.02

4th Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-114	42.40	42.40	9.232e6	5.738e6	7.514e5	4.661e5	1.61	NO	1.217e6	2377.6		1.30
2	13C-PCB-105	43.31	43.29	9.145e6	5.699e6	7.477e5	4.632e5	1.61	NO	1.211e6	2326.0		1.27
3	13C-PCB-127	43.65	43.65	9.445e6	5.810e6	7.813e5	4.850e5	1.61	NO	1.266e6	2354.1		1.23
4	13C-PCB-126	45.61	45.61	8.052e6	4.955e6	6.771e5	4.196e5	1.61	NO	1.097e6	2112.4		1.28

4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-153	43.46	43.47	5.726e6	4.405e6	4.702e5	3.632e5	1.29	NO	8.333e5	1844.2		1.54
2	13C-PCB-141	44.24	44.22	4.749e6	3.723e6	3.830e5	2.987e5	1.28	NO	6.817e5	1825.5		1.86
3	13C-PCB-138	45.09	45.10	4.907e6	3.911e6	3.963e5	3.142e5	1.26	NO	7.105e5	1811.4		1.78
4	13C-PCB-159	46.43	46.42	5.450e6	4.155e6	4.571e5	3.487e5	1.31	NO	8.058e5	1690.9		1.46
5	13C-PCB-128	46.67	46.71	4.273e6	3.409e6	3.674e5	2.913e5	1.26	NO	6.586e5	1989.4		2.10
6	13C-PCB-167	47.13	47.12	5.630e6	4.436e6	4.655e5	3.658e5	1.27	NO	8.312e5	1743.3		1.46
7	13C-PCB-156	48.47	48.47	5.359e6	4.153e6	4.520e5	3.516e5	1.29	NO	8.036e5	1737.5		1.51
8	13C-PCB-157	48.76	48.73	5.319e6	4.166e6	4.433e5	3.449e5	1.29	NO	7.882e5	1704.2		1.51
9	13C-PCB-169	51.03	51.03	4.862e6	3.831e6	4.179e5	3.290e5	1.27	NO	7.469e5	1694.8		1.58

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5th Function Octa-Isotopes

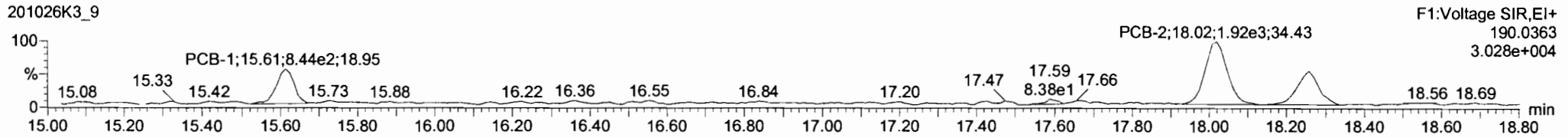
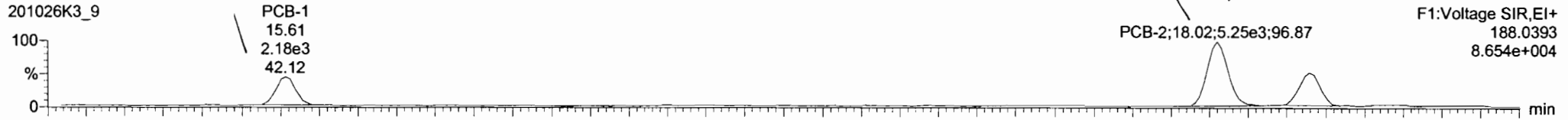
	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-194	54.75	54.75	4.398e6	4.689e6	2.568e5	2.765e5	0.93	NO	5.333e5	2181.4		1.95
2	13C-PCB-205	55.01	55.03	5.258e6	5.586e6	3.062e5	3.271e5	0.94	NO	6.332e5	1989.4		1.50

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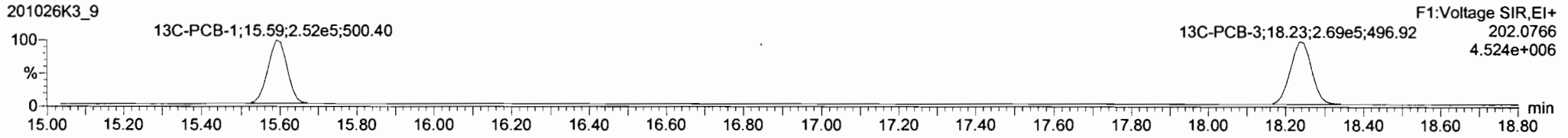
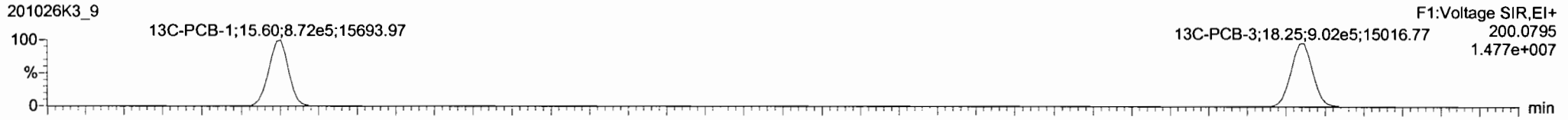
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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

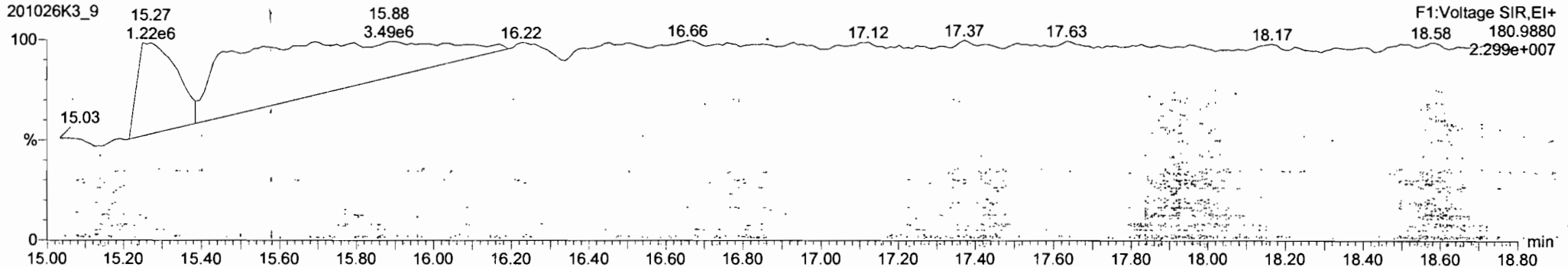
**PCB-1**



**13C-PCB-1**

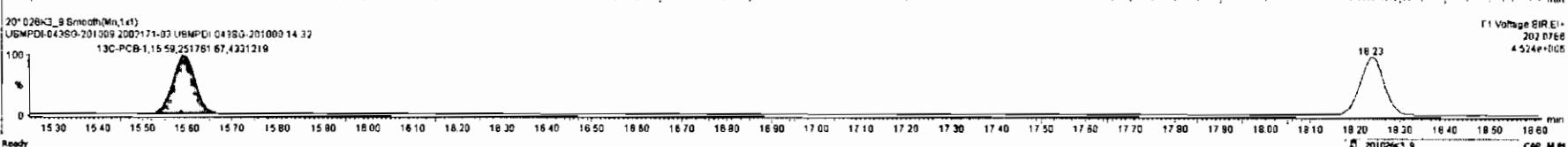
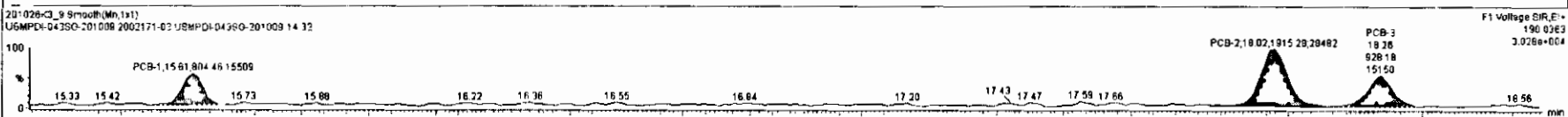
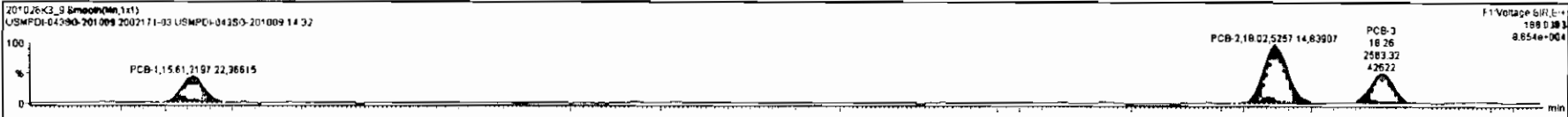


**PFK1**



#	Name	Resp	RA	RY	RW	ndJct	PredRT	RT	Pred.R.	RRT	RRT/Fac	Conc	%Rec	DL	EMPC
216	216 13C-PCB-182	4.50e5	0.47	NO	1.0700	5.027	46.40	46.51	0.000	0.000	NO	1989	100	1.23	
218	218 13C-PCB-205	6.33e5	0.94	NO	1.0000	5.027	55.01	55.03	1.000	1.000	NO	1989	100	1.50	
220	220 13C-PCB-78	1.29e6	0.83	NO	1.0689	5.027	37.48	37.56	1.030	1.030	NO	1869	94.8	1.13	
221	221 13C-PCB-178	3.95e5	0.45	NO	0.7985	5.027	44.87	45.97	0.988	0.988	NO	1557	78.3	1.14	
222	222 13C-PCB-79	1.29e6	0.82	NO	1.0621	5.027	37.87	37.88	0.988	0.988	NO	2057	105	1.29	
223	223 13C-PCB-178	3.95e5	0.45	NO	1.0598	5.027	45.98	45.97	0.923	0.923	NO	1549	87.8	1.37	
224	224 Total Mono-PCBs				1.0865	5.027	0.00		0.009		NO	20.85		0.835	20.02
226	226 Total Di-PCBs				1.0537	5.027	0.00		0.000		NO	122.1		4.42	185.5
228	228 2nd Function Tri-PCBs				1.0807	5.027	0.00		0.000		NO	140.2		3.58	140.2

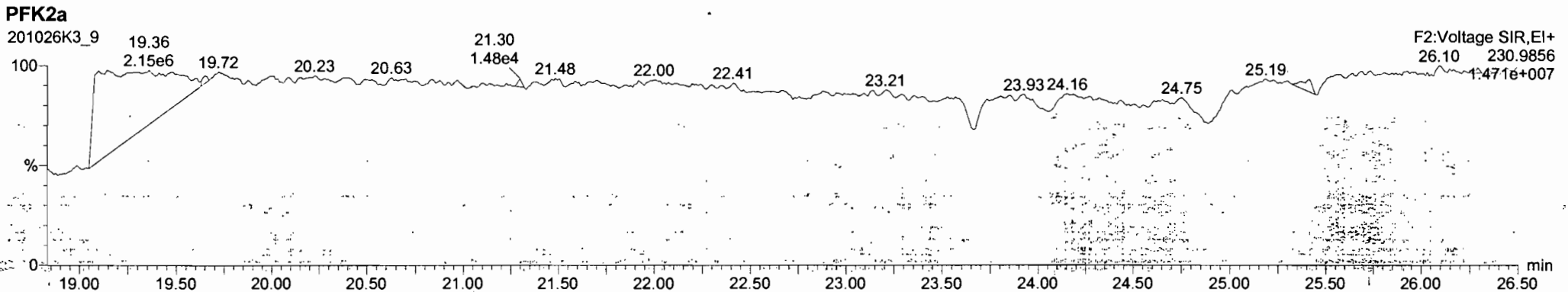
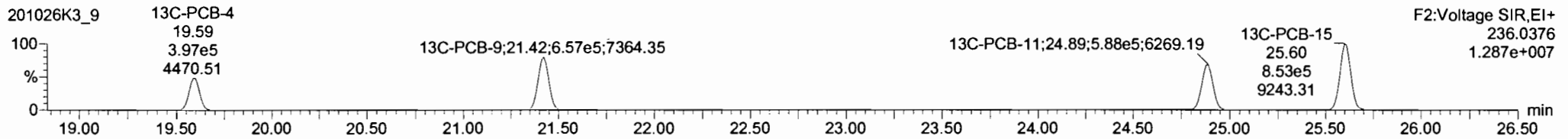
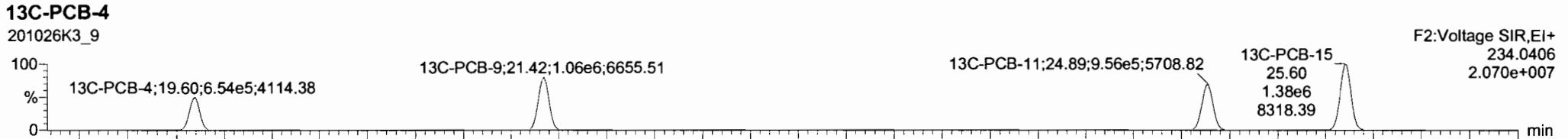
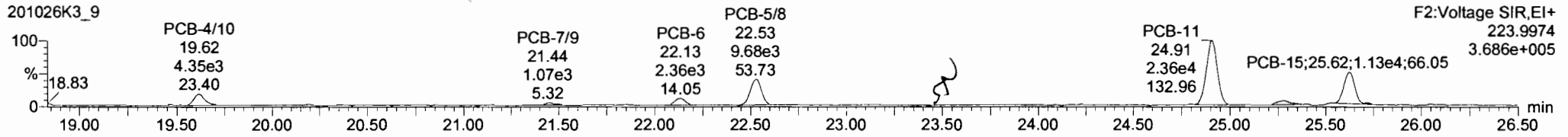
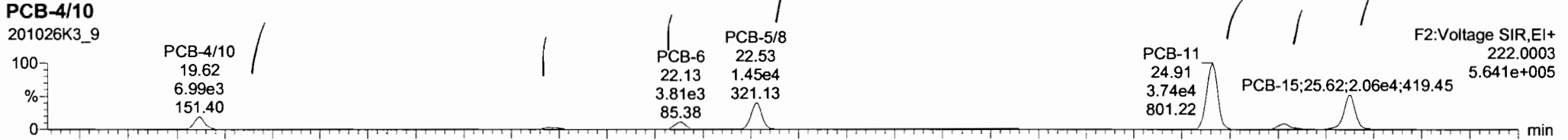
#	Name	Pred RT	RT	nd Resp	id Resp	1st Ratio (Pred)	RA	RY	EMPC	Conc
1	1 PCB-1	15.61	15.61	2.187e3	8.045e2	311.30	2.73	NO	4.5495	4.5495
2	2 PCB-2	18.02	18.02	5.257e3	1.915e3	313.00	2.74	NO	10.303	10.303
3	3 PCB-3	18.25	18.25	2.563e3	9.262e2	313.00	2.75	NO	5.1658	5.1658



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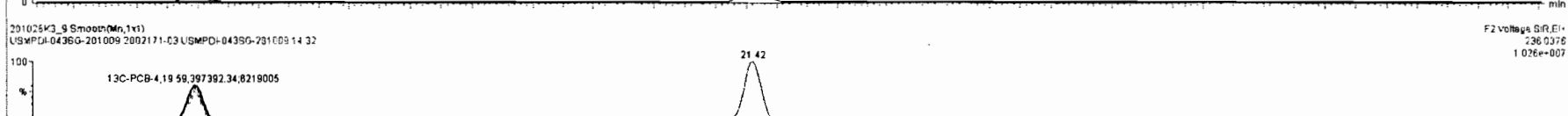
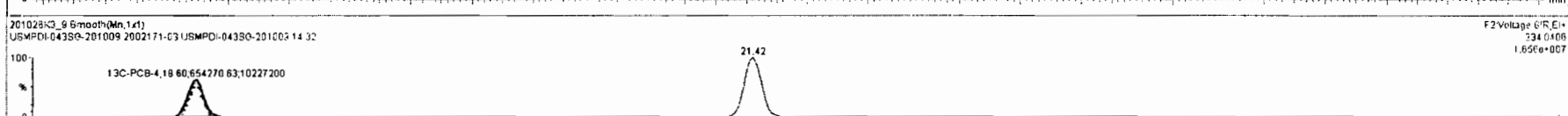
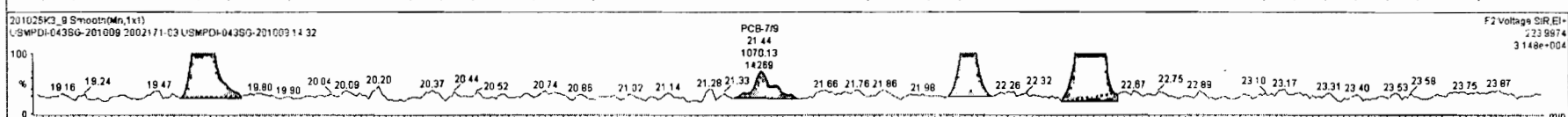
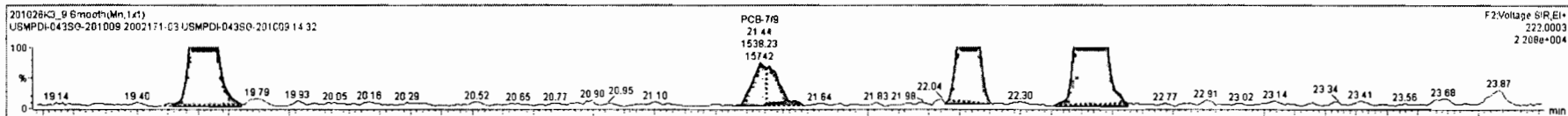
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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009



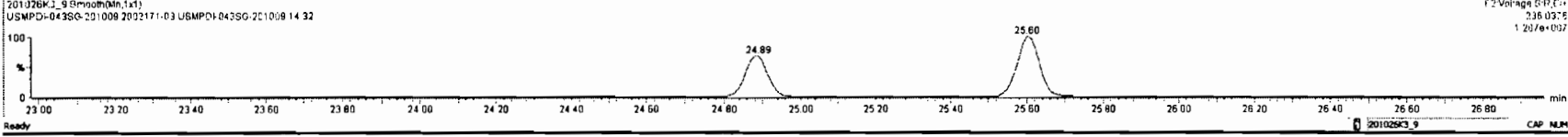
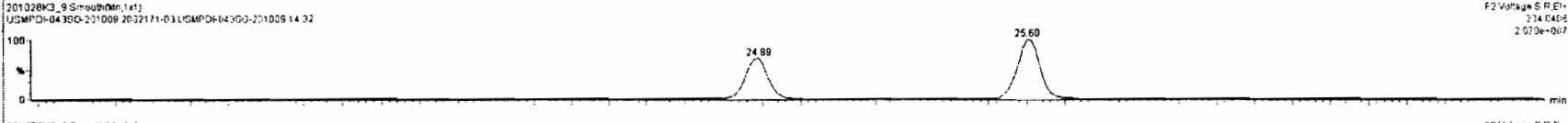
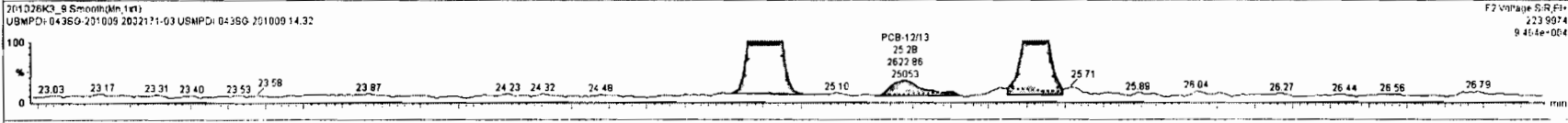
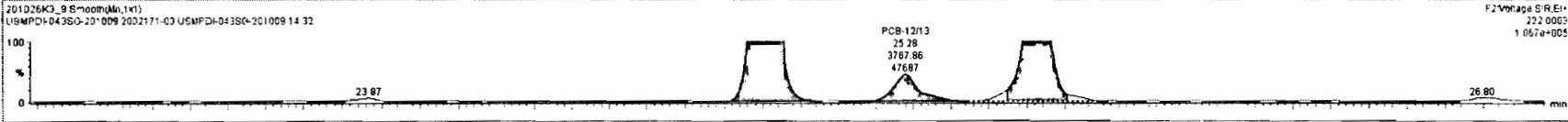
#	Name	Resp	RA	nly	RRF	WtWt	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
218	13C-PCB-182	4.50e5	0.47	NO	1.0000	5.027	46.50	46.51	0.000	0.000	NO	1989	100	1.23	
219	13C-PCB-205	6.33e5	0.94	NO	1.0000	5.027	55.01	55.03	1.000	0.000	NO	1989	100	1.50	
220	13C-PCB-79	1.20e6	0.83	NO	1.0689	5.027	37.86	37.86	1.030	1.030	NO	1689	94.9	1.13	
221	13C-PCB-178	3.95e5	0.45	NO	0.7885	5.027	45.97	45.97	0.968	0.968	NO	1557	78.3	1.14	
222	13C-PCB-79	1.20e6	0.83	NO	1.0821	5.027	37.87	37.88	0.968	0.968	NO	2097	105	1.28	
223	13C-PCB-178	3.95e5	0.45	NO	1.0508	5.027	45.96	45.97	0.923	0.923	NO	1948	97.9	1.37	
224	Total Mono-PCBs				1.1665	5.027	0.00	0.000			NO	20.02		0.935	20.02
225	Total Di-PCBs				1.0637	5.027	0.00	0.000			NO	174.8		4.42	174.6
226	2nd Function Tri-PCBs				1.0807	5.027	0.00	0.000			NO	140.2		3.56	140.2

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	4 PCB-4/10	19.68	19.62	7.111e3	4.460e3	1.560	1.59	NO	17.539	17.539
2	5 PCB-7/9	21.48	21.44	1.530e3	1.070e3	1.560	1.44	NO	3.1456	3.1456
3	6 PCB-6	22.13	22.13	3.937e3	2.359e3	1.560	1.67	NO	7.1215	7.1215
4	7 PCB-5/6	22.54	22.53	1.470e4	1.007e4	1.560	1.46	NO	28.903	28.903
5	9 PCB-11	24.91	24.91	3.739e4	2.362e4	1.560	1.58	NO	69.755	69.755
6	10 PCB-12/13	25.34	25.28	3.769e3	2.623e3	1.560	1.44	NO	8.0183	8.0183



#	Name	Resp	RA	n/y	RRF	WtAdj	Pred RT	RT	Pred R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
218	13C-PCB-182	4.50e5	0.47	NO	1.0000	5.027	46.50	46.51	0.000	0.000	NO	1989	100	1.23	
219	13C-PCB-205	6.33e5	0.94	NO	1.0000	5.027	55.01	55.03	1.000	0.000	NO	1989	100	1.50	
220	13C-PCB-79	1.29e6	0.83	NO	1.0699	5.027	37.88	37.88	1.030	1.030	NO	1889	94.9	1.13	
221	13C-PCB-178	3.95e5	0.45	NO	0.7685	5.027	45.97	45.97	0.986	0.986	NO	1557	78.3	1.14	
222	13C-PCB-79	1.29e6	0.83	NO	1.0621	5.027	37.87	37.88	0.969	0.969	NO	2057	105	1.28	
223	13C-PCB-178	3.95e5	0.45	NO	1.0508	5.027	45.98	45.97	0.923	0.923	NO	1948	97.9	1.37	
224	Total Mono-PCBs				1.1665	5.027	0.00		0.000		NO	20.02		0.935	20.02
225	Total DiPCBs				1.9537	5.027	0.00		0.000		NO	174.8		4.42	174.8
226	2nd Function Tri-PCBs				1.0807	5.027	0.00		0.000		NO	140.2		3.58	140.2

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-470	19.88	19.82	7.11e3	4.40e3	1.560	1.59	NO	17.536	17.536
2	5 PCB-79	21.48	21.44	1.538e3	1.070e3	1.580	1.44	NO	3.1456	3.1456
3	8 PCB-6	22.13	22.13	3.937e3	2.358e3	1.580	1.67	NO	7.1215	7.1215
4	7 PCB-58	22.54	22.53	1.470e4	1.907e4	1.560	1.46	NO	28.903	28.903
5	9 PCB-11	24.91	24.91	3.738e4	2.363e4	1.560	1.58	NO	69.755	69.755
6	10 PCB-12/13	25.34	25.28	3.768e3	2.623e3	1.560	1.44	NO	8.0183	8.0183



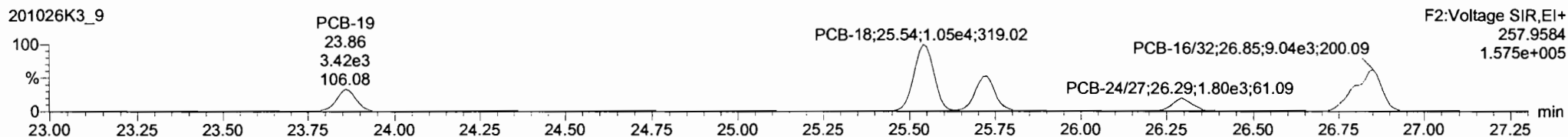
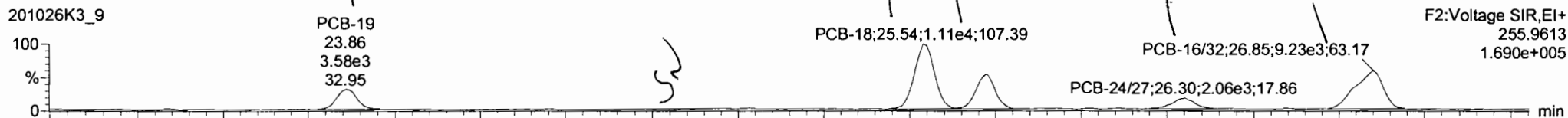


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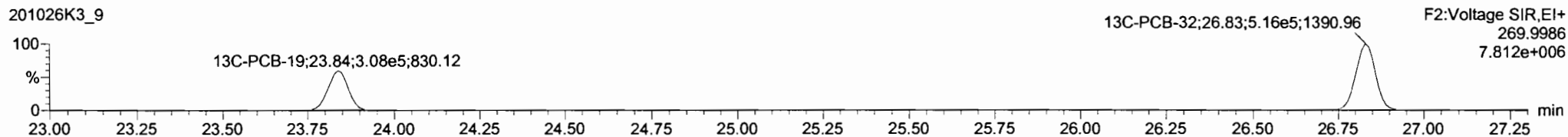
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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

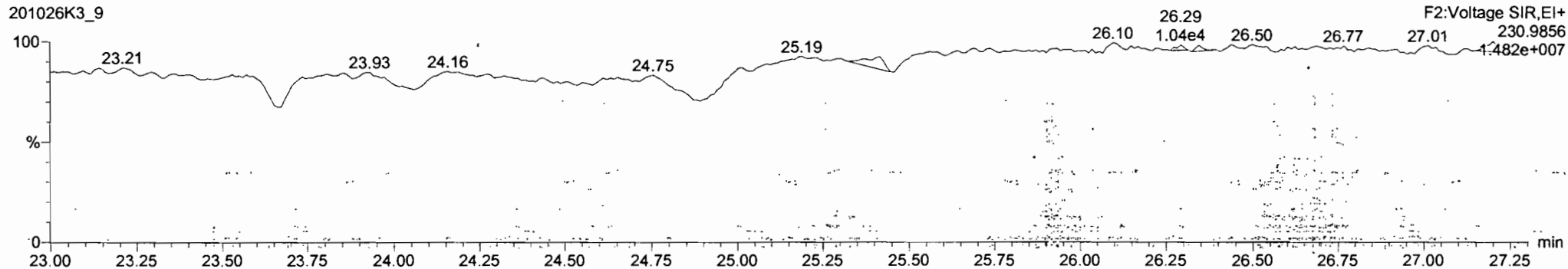
**PCB-19**



**13C-PCB-19**



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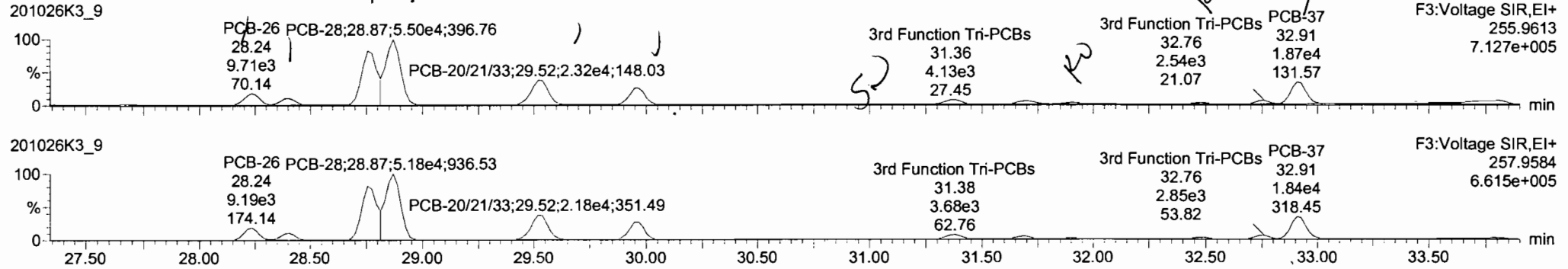


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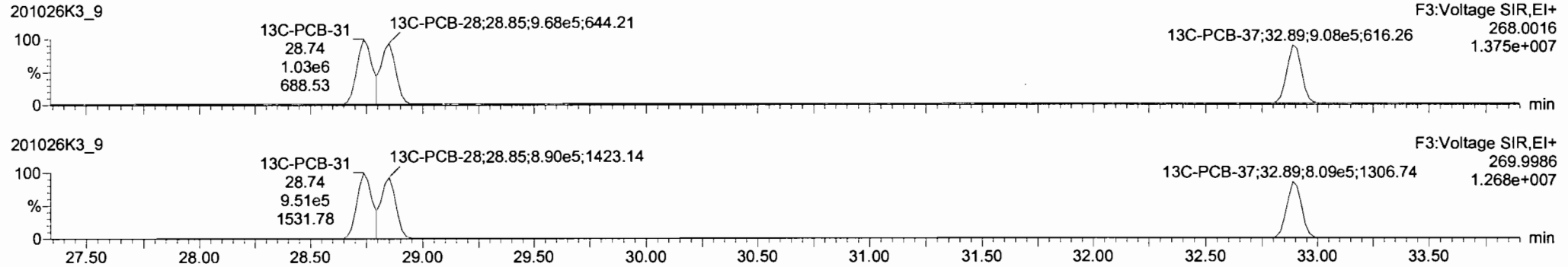
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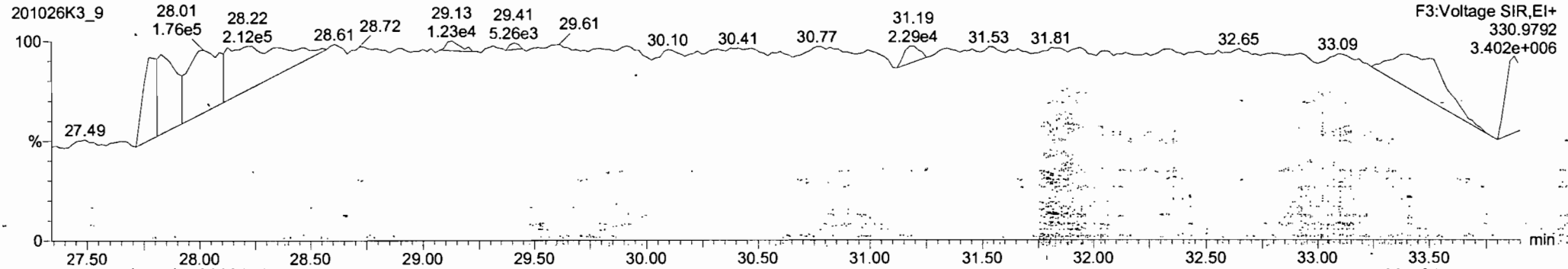
**PCB-34**



**13C-PCB-28**

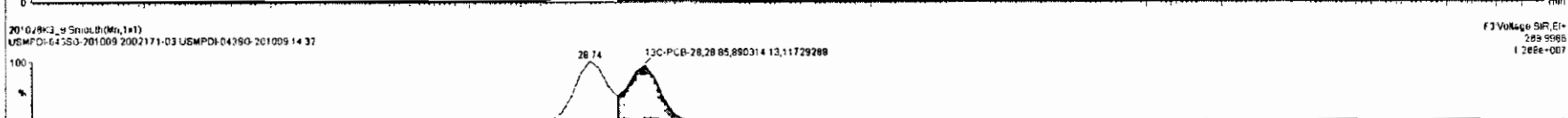
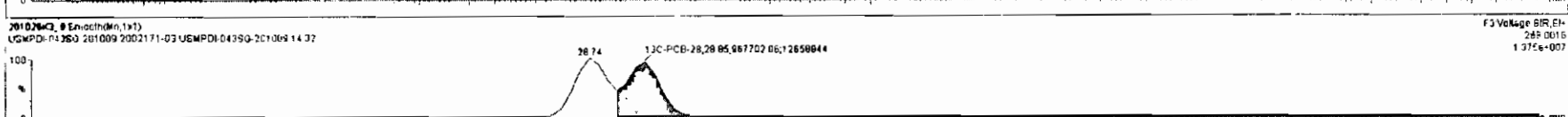
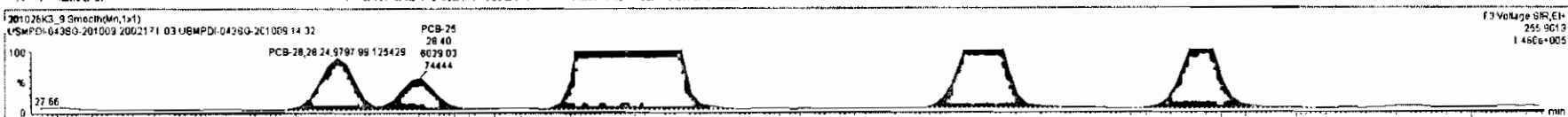


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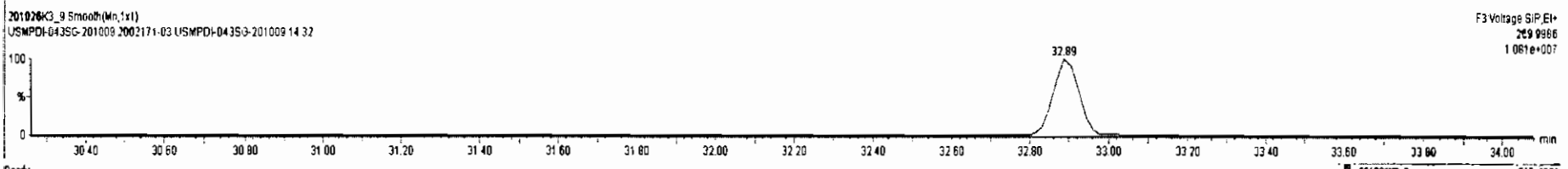
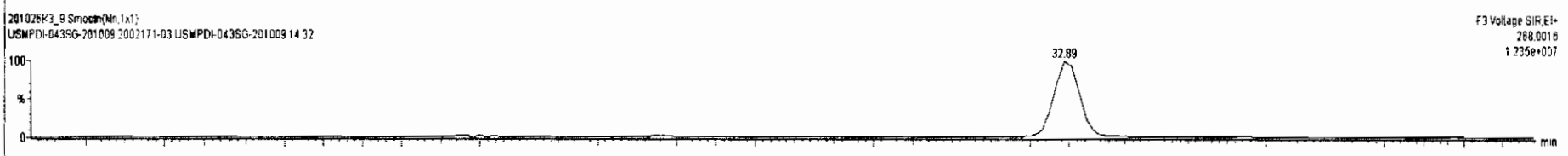
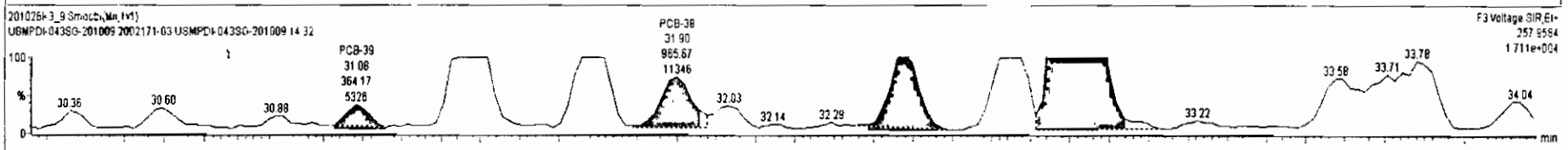
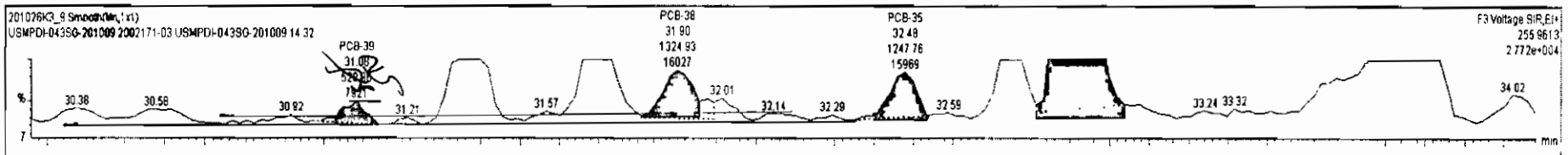
#	Name	Resp	RA	n/y	RF	wt%	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
218	13C-PCB-182	4.50e5	0.47	NO	1.0000	5.027	46.50	46.51	0.000	0.000	NO	1980	100	1.23	
219	13C-PCB-205	6.33e5	0.94	NO	1.0000	5.027	55.01	55.03	1.000	0.000	NO	1980	100	1.50	
220	220 13C-PCB-79	1.29e6	0.83	NO	1.0689	5.027	37.88	37.88	1.830	1.830	NO	1885	94.9	1.13	
221	221 13C-PCB-176	3.95e5	0.45	NO	0.7665	5.027	45.97	45.97	0.986	0.986	NO	1957	78.3	1.14	
222	222 13C-PCB-79	1.29e6	0.83	NO	1.0621	5.027	37.87	37.88	0.986	0.986	NO	2007	105	1.20	
223	223 13C-PCB-176	3.95e5	0.45	NO	1.0000	5.027	45.96	45.97	0.923	0.923	NO	1948	97.9	1.37	
224	224 Total Mono-PCBs				1.1665	5.027	0.00	0.000			NO	20.02		0.935	20.02
225	225 Total Di-PCBs				1.0537	5.027	0.00	0.000			NO	174.6		4.42	174.6
226	226 2nd Function Tri-PCBs				1.0807	5.027	0.00	0.000			NO	140.2		3.56	140.2

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	21 PCB-26	28.24	28.24	5.788e3	9.209e3	1.040	1.06	NO	21.580	21.580
2	22 PCB-25	28.39	28.40	6.028e3	5.487e3	1.040	1.10	NO	12.959	12.969
3	23 PCB-31	28.77	28.78	4.479e4	4.159e4	1.040	1.08	NO	89.254	89.254
4	24 PCB-28	28.87	28.87	5.490e4	5.192e4	1.040	1.06	NO	111.58	111.58
5	25 PCB-20(2)93	29.51	29.52	2.344e4	2.173e4	1.040	1.08	NO	51.384	51.384
6	26 PCB-22	29.95	29.97	1.473e4	1.368e4	1.040	1.08	NO	31.264	31.264



#	Name	Resp	RA	n/y	RNF	wAve	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
218	218 13C-PCB-182	4.50e5	0.47	NO	1.0000	5.027	46.50	46.51	0.000	0.000	NO	1989	100	1.23	
219	219 13C-PCB-205	6.33e5	0.94	NO	1.0000	5.027	55.01	55.03	1.000	0.000	NO	1989	100	1.50	
220	220 13C-PCB-79	1.29e6	0.83	NO	1.0689	5.027	37.88	37.88	1.030	1.030	NO	1896	94.9	1.13	
221	221 13C-PCB-178	3.95e5	0.45	NO	0.7665	5.027	45.97	45.97	0.988	0.988	NO	1557	78.3	1.14	
222	222 13C-PCB-79	1.29e6	0.83	NO	1.0621	5.027	37.87	37.86	0.968	0.968	NO	2097	105	1.26	
223	223 13C-PCB-178	3.95e5	0.45	NO	1.0508	5.027	45.99	45.97	0.923	0.923	NO	1948	97.9	1.37	
224	224 Total Mono-PCBs					5.027	0.00		0.000		NO	20.02		0.835	20.02
225	225 Total Di-PCBs					5.027	0.00		0.000		NO	174.6		4.42	174.6
226	226 2nd Function Tri-PCBs					5.027	0.00		0.000		NO	140.2		3.58	140.2

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	21 PCB-26	29.24	28.24	9.79e3	9.20e3	1.040	1.06	NO	21.580	21.580
2	22 PCB-25	28.39	26.40	6.02e3	5.467e3	1.040	1.10	NO	12.959	12.959
3	23 PCB-31	28.77	28.76	4.47e4	4.15e4	1.040	1.08	NO	89.254	89.254
4	24 PCB-28	28.87	28.87	5.490e4	5.192e4	1.040	1.06	NO	111.59	111.59
5	25 PCB-20/21/33	29.51	29.52	2.34e4	2.17e4	1.040	1.08	NO	51.384	51.384
6	26 PCB-22	29.95	29.97	1.473e4	1.368e4	1.040	1.08	NO	31.264	31.264



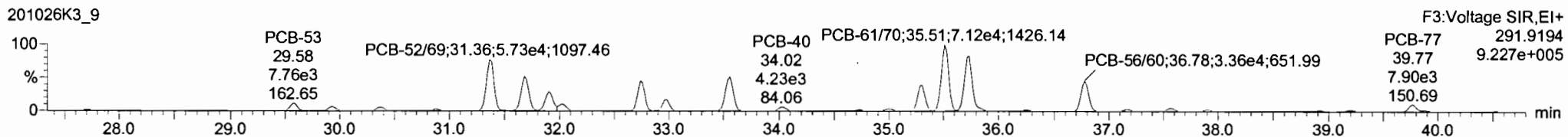
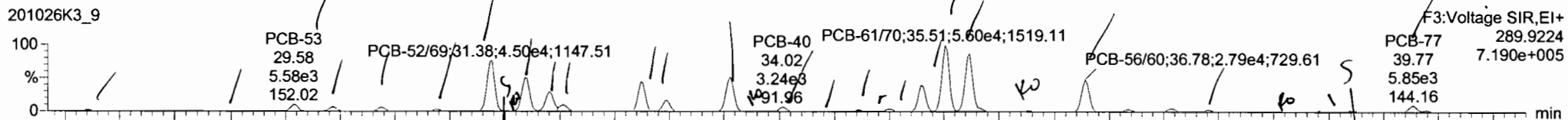
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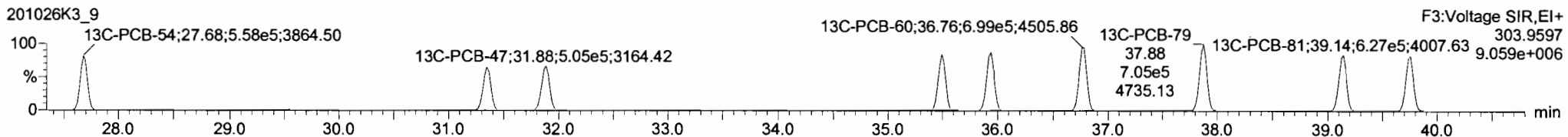
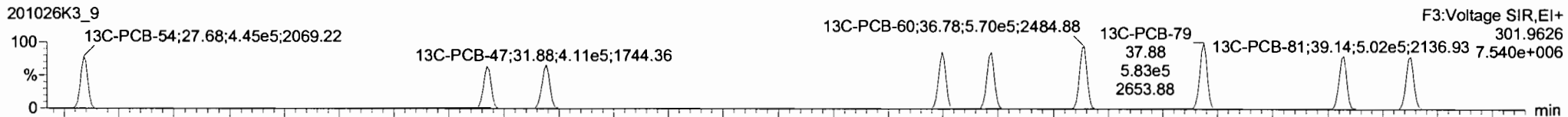
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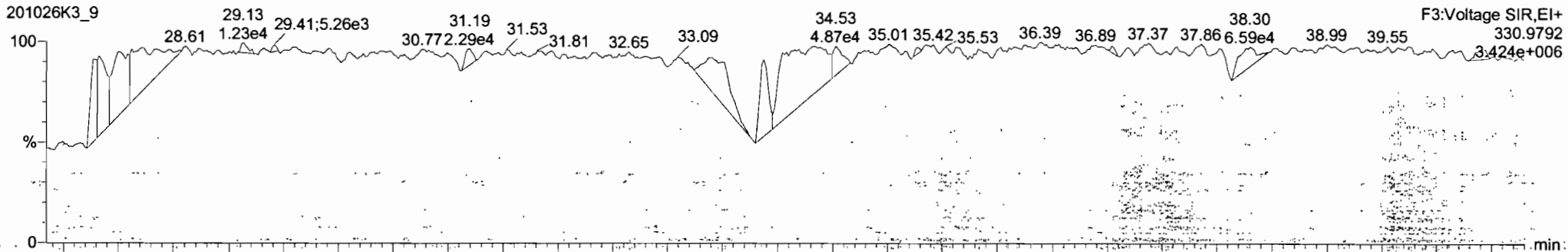
**PCB-54**



**13C-PCB-54**



**PFK3a**



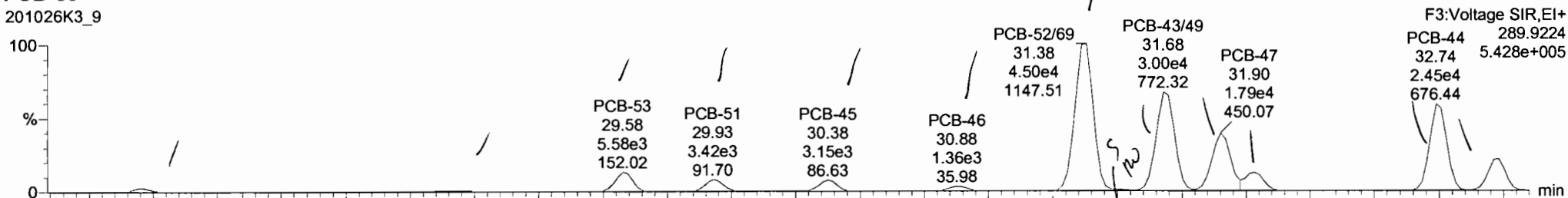
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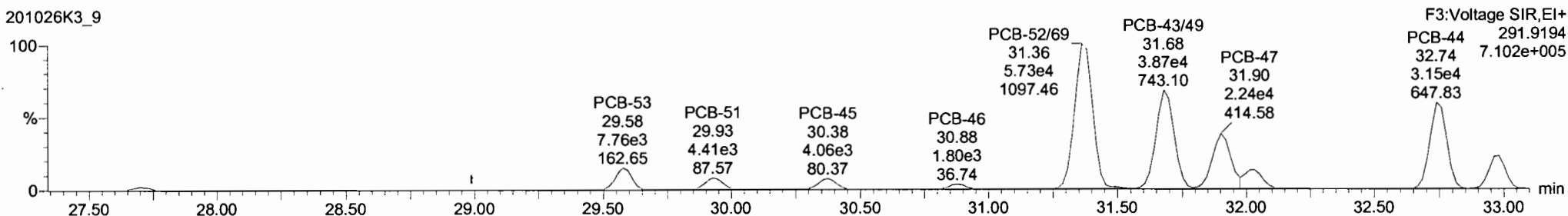
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**PCB-50**

201026K3\_9



201026K3\_9

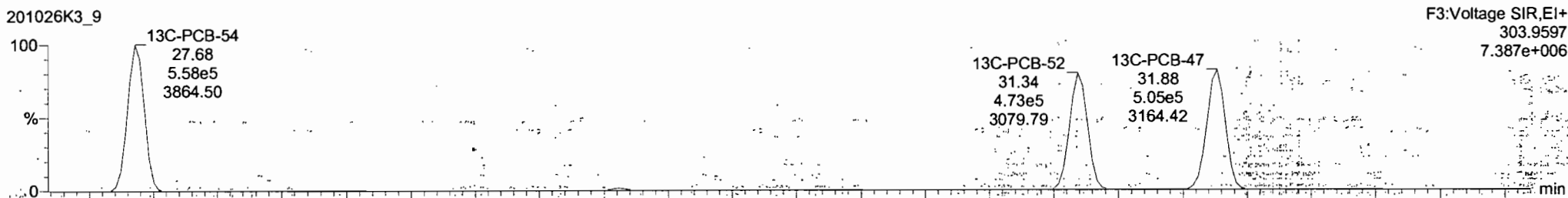


**13C-PCB-52**

201026K3\_9

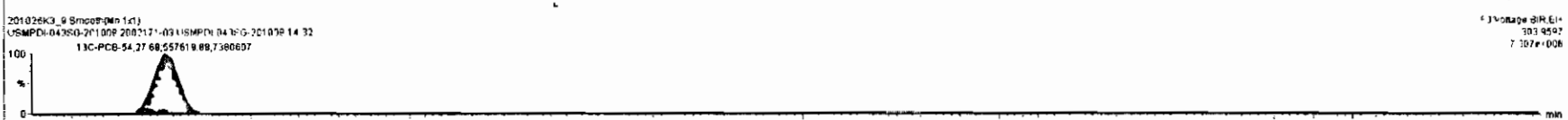
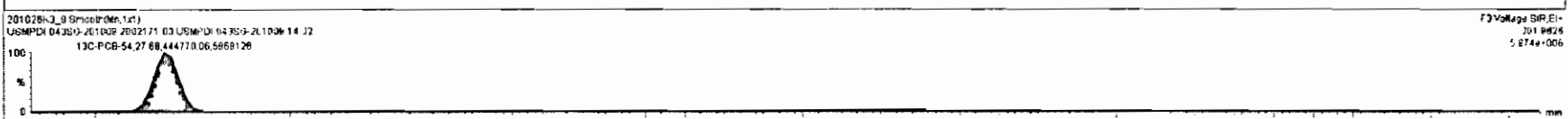
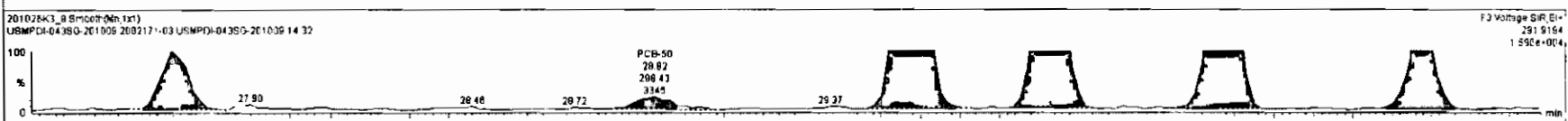
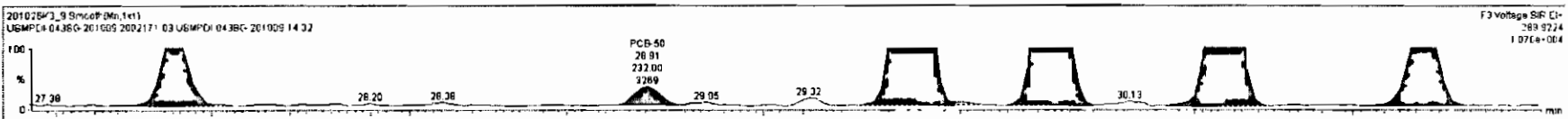


201026K3\_9



#	Name	Resp	RA	n/y	RP	Value	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
226	226 Total Tetra-PCBs				1.0778	5.027	0.00		0.000		NO	1548		11.11	1552
228	228 3rd Function Penta-PCBs				1.3157	5.027	0.00		0.000		NO	2077		20.8	2106
230	230 4th Function Penta-PCBs				1.0735	5.027	0.00		0.000		NO	147.0		2.33	147.0
231	231 3rd Function Hexa-PCBs				0.9505	5.027	0.00		0.000		NO	555.9		5.68	639.1
232	232 4th Function Hexa-PCBs				1.0316	5.027	0.00		0.000		NO	1631		9.30	1633
233	233 Total Hepta-PCBs				1.3951	5.027	0.00		0.000		NO	1261		11.1	1291
234	234 4th Function Octa-PCBs				1.0008	5.027	0.00		0.000		NO	230.6		5.62	246.3
235	235 5th Function Octa-PCBs				1.1499	5.027	0.00		0.000		NO	96.45		1.85	99.96
236	236 Total Nona-PCBs				0.9623	5.027	0.00		0.000		NO	82.52		1.00	82.52

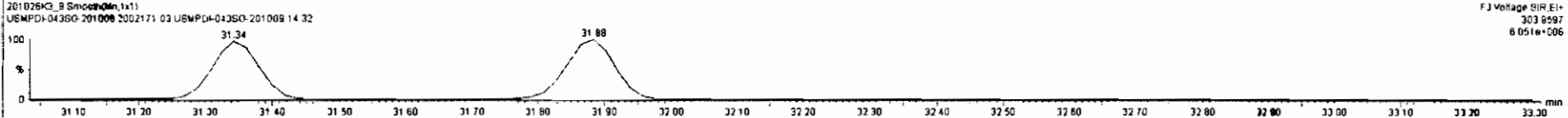
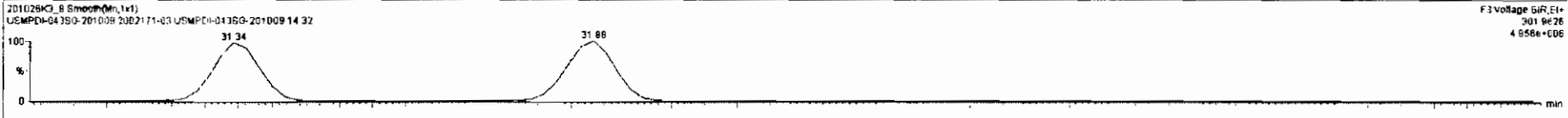
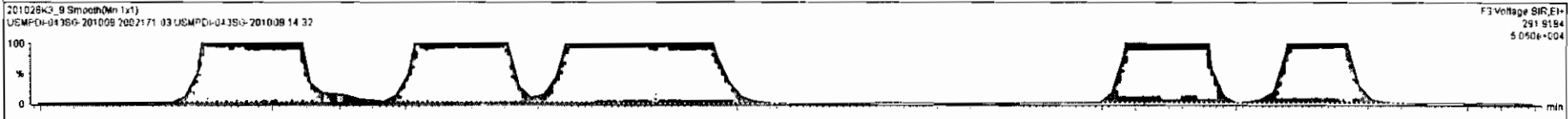
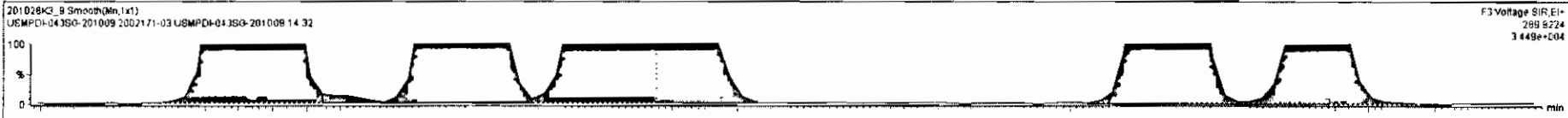
#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.70	27.70	1.002e3	1.247e3	0.770	0.85	NO	4.2452	4.2452
2	33 PCB-50	28.91	28.91	2.320e2	2.984e2	0.770	0.78	NO	1.1909	1.1909
3	34 PCB-53	29.58	29.58	5.503e3	7.768e3	0.770	0.72	NO	21.108	21.108
4	36 PCB-51	28.83	28.83	3.447e3	4.416e3	0.770	0.78	NO	17.173	17.173
5	36 PCB-46	30.38	30.38	3.103e3	4.071e3	0.770	0.78	NO	19.599	19.599
6	37 PCB-46	30.88	30.88	1.350e3	1.799e3	0.770	0.75	NO	8.8388	8.8388



201026K3\_9 - 2002171-03 USMPDI-0435G-201009 14 32 - USMPDI-0435G-201009

#	Name	Resp	RA	rvy	RRF	wtVol	Prod RT	RT	Prod R	RRF	RRF Fail	Conc.	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.027	0.00		0.000			1548		11.1	1983
228	228 3rd Function Penta-PCBs				1.3157	5.027	0.00		0.000		NO	2077		20.6	2109
230	230 4th Function Penta-PCBs				1.0735	5.027	0.00		0.000		NO	142.0		2.33	142.0
231	231 3rd Function Hexa-PCBs				0.9505	5.027	0.00		0.000		NO	596.9		5.66	639.1
232	232 4th Function Hexa-PCBs				1.0316	5.027	0.00		0.000		NO	1631		9.30	1633
233	233 Total Hepta-PCBs				1.3551	5.027	0.00		0.000		NO	1281		11.1	1281
234	234 4th Function Octa-PCBs				1.0006	5.027	0.00		0.000		NO	220.6		5.62	246.3
235	235 5th Function Octa-PCBs				1.1498	5.027	0.00		0.000		NO	96.45		1.85	99.96
236	236 Total Nona-PCBs				0.9523	5.027	0.00		0.000		NO	82.52		1.80	82.52

#	Name	Prod RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	rvy	EMPC	Conc
11	42 PCB-48/75	32.01	32.03	5.701e3	7.703e3	0.770	0.74	NO	25.990	25.990
12	45 PCB-44	32.72	32.74	2.452e4	3.162e4	0.770	0.78	NO	147.96	147.96
13	46 PCB-42/59	32.94	32.98	9.337e3	1.196e4	0.770	0.78	NO	44.067	44.067
14	47 PCB-41/64/71/72	33.56	33.56	3.059e4	3.916e4	0.770	0.78	NO	127.64	127.64
15	48 PCB-68	33.82	33.82	5.815e2	6.448e2	0.770	0.90	YES	1.9399	0.00000
16	49 PCB-40	34.04	34.02	3.258e3	4.275e3	0.770	0.76	NO	27.179	27.179





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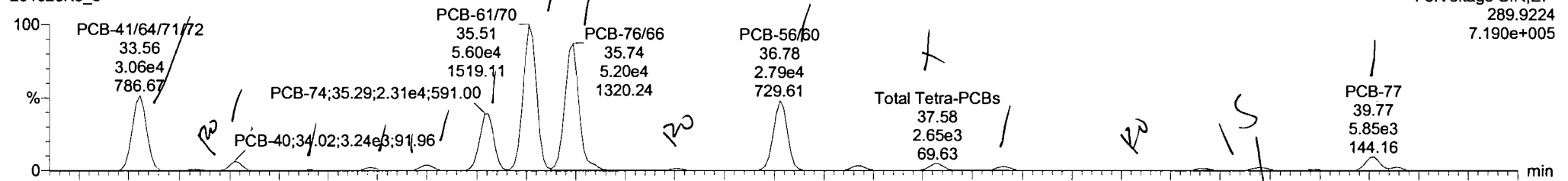
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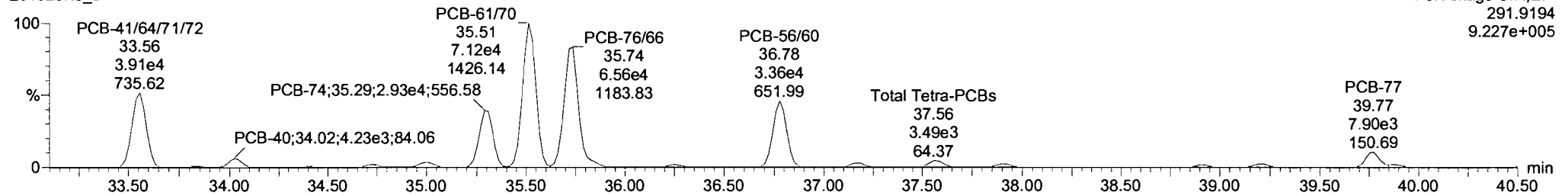
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**PCB-68**

201026K3\_9

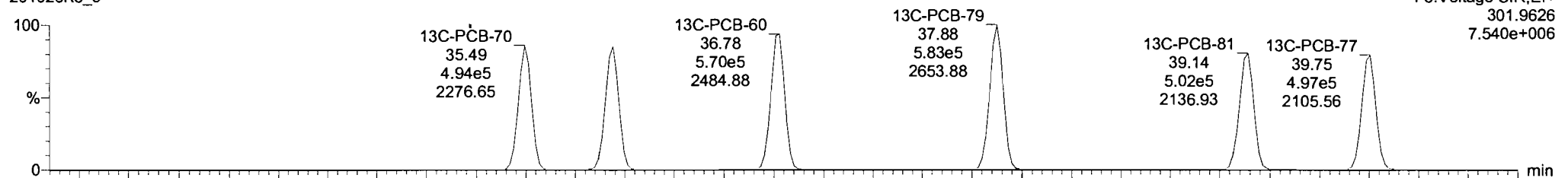


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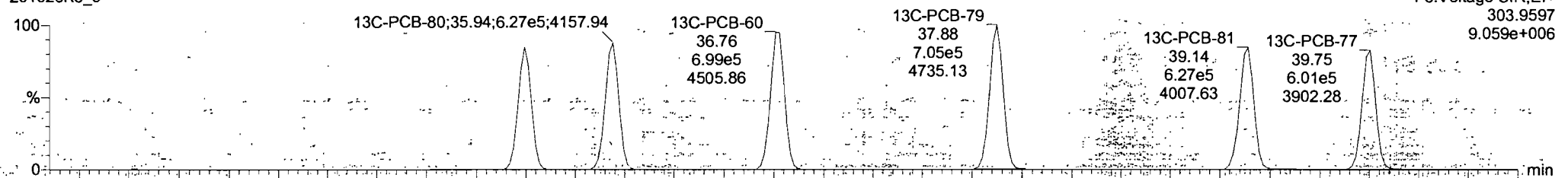


**13C-PCB-60**

201026K3\_9

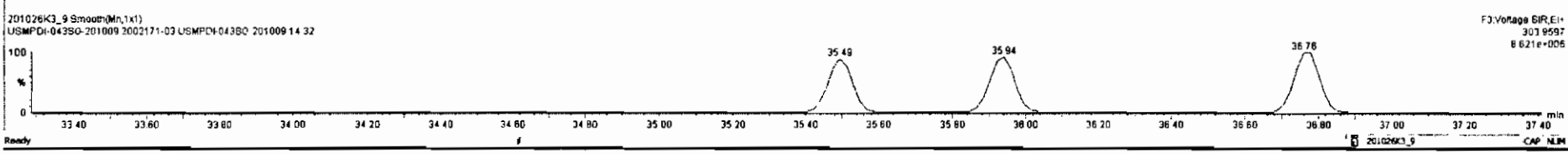
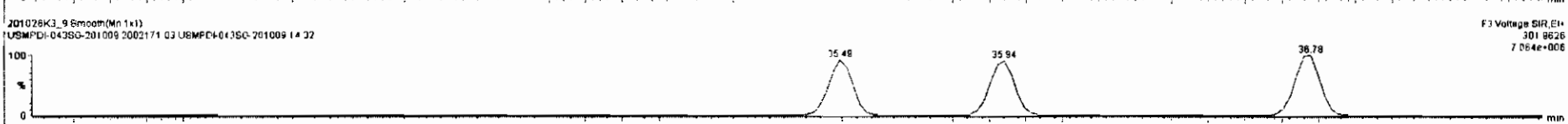
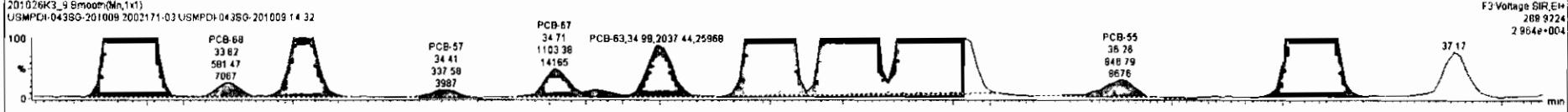


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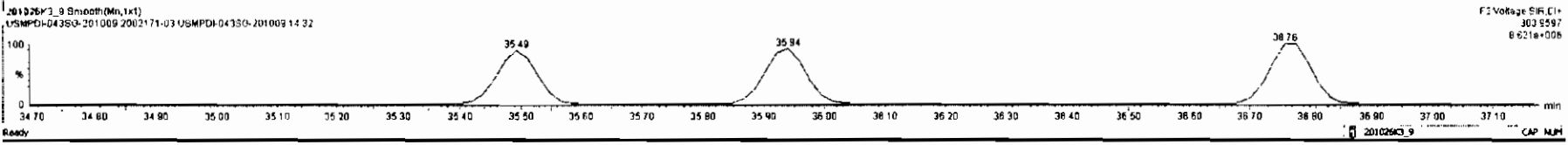
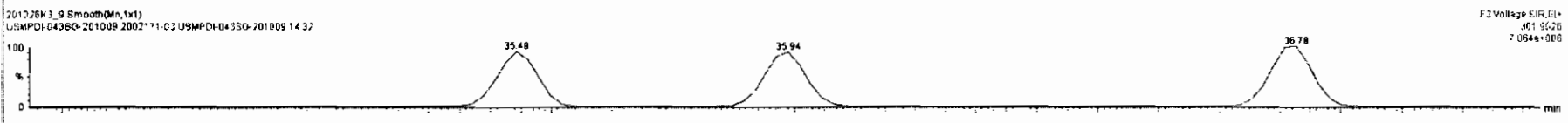
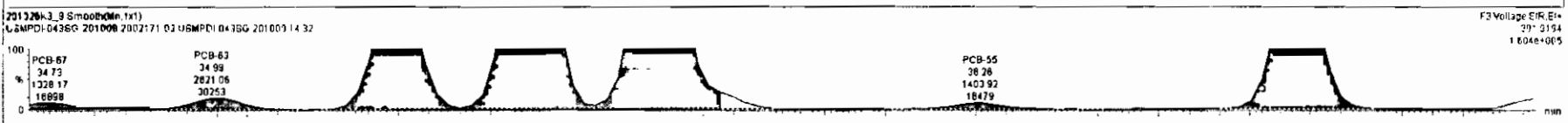
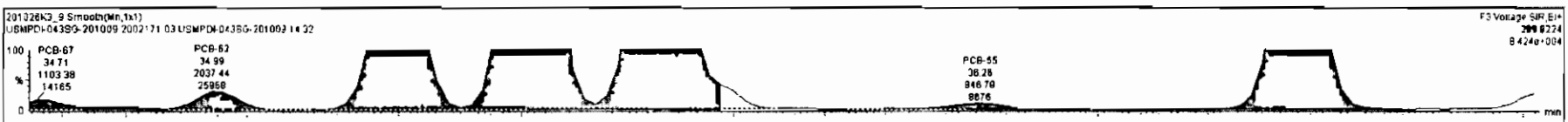
#	Name	Resp	RA	rvly	RRT	w/wvd	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc	u/acc	DL	EMPC
228	Total Toluene-PCBs				1.0776	5.027	0.00		0.000		NO	1546		11.1	1527
229	3rd Function Penta-PCBs				1.3157	5.027	0.00		0.000		NO	2077		20.8	2109
230	4th Function Penta-PCBs				1.0735	5.027	0.00		0.000		NO	142.0		2.33	142.0
231	3rd Function Hexa-PCBs				0.9505	5.027	0.00		0.000		NO	556.9		5.68	539.1
232	4th Function Hexa-PCBs				1.0316	5.027	0.00		0.000		NO	1631		9.30	1633
233	Total Hepta-PCBs				1.3551	5.027	0.00		0.000		NO	1261		11.1	1291
234	4th Function Octa-PCBs				1.0008	5.027	0.00		0.000		NO	220.8		5.52	246.3
235	5th Function Octa-PCBs				1.1499	5.027	0.00		0.000		NO	98.45		1.85	99.96
236	Total Nona-PCBs				0.9523	5.027	0.00		0.000		NO	82.52		1.80	82.52

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rvly	EMPC	Conc.
11	42 PCB-46/75	32.01	32.03	5.701e3	7.703e3	0.770	0.74	NO	25.990	25.990
12	45 PCB-44	32.72	32.74	2.452e4	3.152e4	0.770	0.78	NO	147.96	147.96
13	46 PCB-42/59	32.94	32.96	9.337e3	1.196e4	0.770	0.78	NO	44.067	44.067
14	47 PCB-41/64/71/72	33.56	33.56	3.059e4	3.918e4	0.770	0.78	NO	127.64	127.64
15	48 PCB-58	33.82	33.82	5.815e2	6.446e2	0.770	0.80	YES	1.8098	0.00000
16	49 PCB-40	34.04	34.02	3.258e3	4.275e3	0.770	0.78	NO	27.178	27.179



#	Name	Resp	RA	rvy	RM	uVal	Prod PT	RT	Prod R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
220	226 Total Tetra-PCBs				1.8776	5.027	0.00		0.000		NO	1646		11.1	1582
229	229 2nd Function Penta-PCBs				1.3157	5.027	0.00		0.000		NO	2077		20.8	2109
230	230 4th Function Penta-PCBs				1.0735	5.027	0.00		0.000		NO	142.0		2.33	142.0
231	231 2nd Function Hexa-PCBs				0.9505	5.027	0.00		0.000		NO	556.9		5.66	636.1
232	232 4th Function Hexa-PCBs				1.0316	5.027	0.00		0.000		NO	1631		9.30	1633
233	233 Total Hepta-PCBs				1.3551	5.027	0.00		0.000		NO	1281		11.1	1291
234	234 4th Function Octa-PCBs				1.0008	5.027	0.00		0.000		NO	220.6		5.62	246.3
235	235 2nd Function Octa-PCBs				1.1499	5.027	0.00		0.000		NO	96.45		1.95	99.96
236	236 Total Nona-PCBs				0.9523	5.027	0.00		0.000		NO	82.52		1.80	82.52

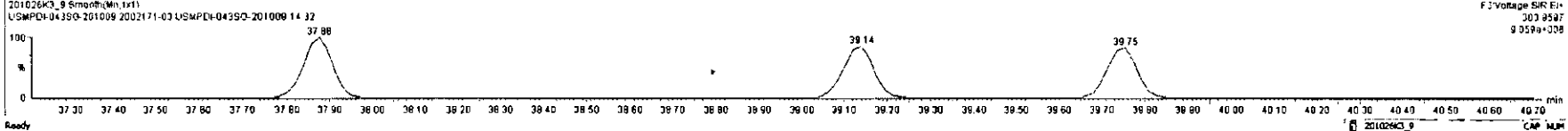
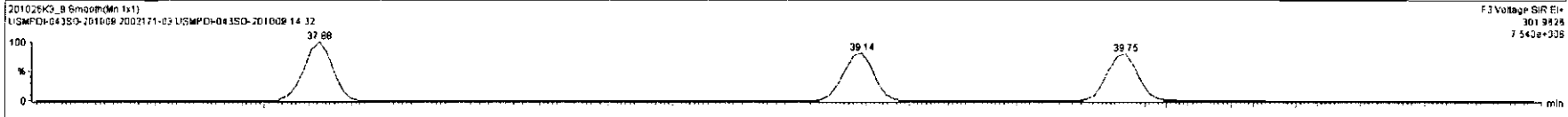
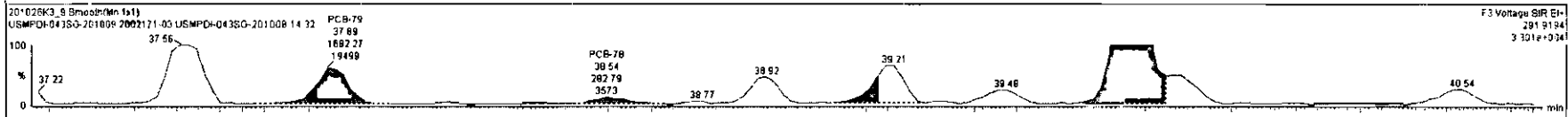
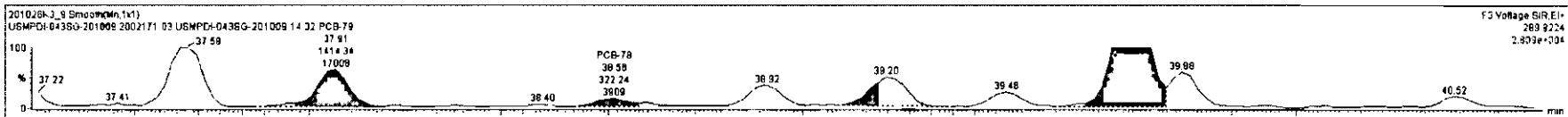
#	Name	Prod RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Prod)	RA	rvy	EMPC	Comp
24	24 PCB-55	36.30	36.26	8.489e2	1.404e3	0.770	0.60	YES	2.9257	0.00000
26	26 PCB-56/60	36.79	36.70	2.782e4	3.380e4	0.770	0.83	NO	106.54	106.54
28	28 PCB-79	37.82	37.91	1.414e3	1.882e3	0.770	0.94	NO	4.7793	4.7793
27	27 PCB-78	38.62	38.58	3.223e2	2.829e2	0.770	1.14	YES	0.77631	0.00000
28	28 PCB-81	39.16	39.18	3.409e2	4.172e2	0.770	0.82	NO	1.2711	1.2711
29	29 PCB-77	39.77	39.77	5.789e3	7.917e3	0.770	0.73	NO	21.866	21.866



201026K3\_9-2002171-03 USMPDI-0435G-201009 14 32 - USMPDI-0435G-201009

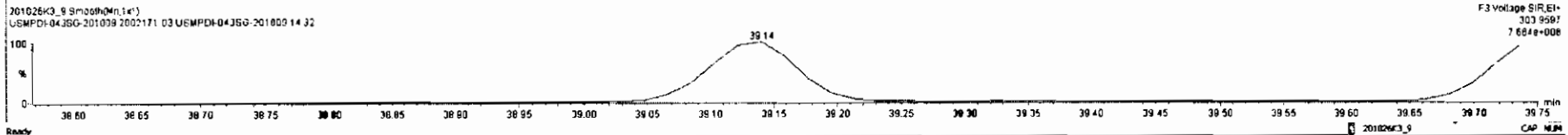
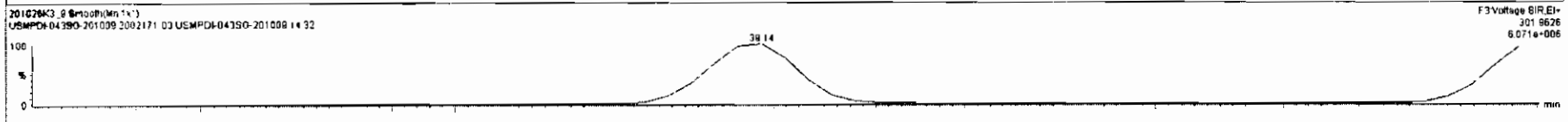
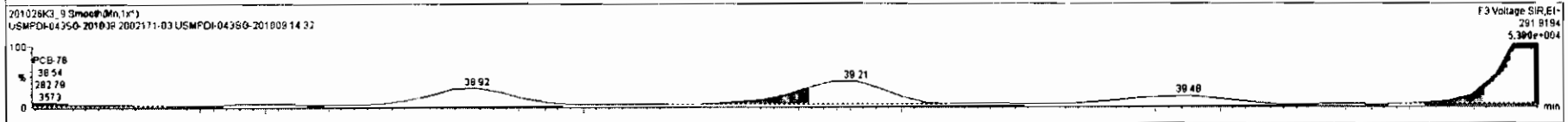
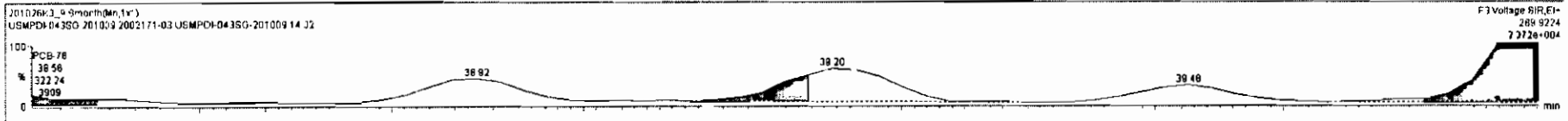
#	Name	Resp	RA	n/y	RRF	wAval	Pred RT	RT	Pred R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
229	Total Toluene-PCBs				1.0778	5.027	0.00	0.000			NO	1548		11.1	1582
229	3rd Function Penta-PCBs				1.3157	5.027	0.00	0.000			NO	2077		20.8	2109
230	4th Function Penta-PCBs				1.0735	5.027	0.00	0.000			NO	142.0		2.33	142.0
231	3rd Function Hexa-PCBs				0.9505	5.027	0.00	0.000			NO	556.9		5.88	639.1
232	4th Function Hexa-PCBs				1.0318	5.027	0.00	0.000			NO	1831		9.30	1833
233	Total Hepta-PCBs				1.3551	5.027	0.00	0.000			NO	1281		11.1	1281
234	4th Function Octa-PCBs				1.0010	5.027	0.00	0.000			NO	220.5		5.82	248.3
235	5th Function Octa-PCBs				1.1488	5.027	0.00	0.000			NO	96.45		1.85	98.98
236	Total Nona-PCBs				0.8523	5.027	0.00	0.000			NO	82.52		1.80	82.52

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
24	56 PCB-55	36.30	36.25	8.468e2	1.404e3	0.770	0.80	YES	2.9257	0.00000
25	58 PCB-60	36.79	36.78	2.792e4	3.380e4	0.770	0.83	NO	106.54	106.54
26	60 PCB-79	37.82	37.81	1.414e3	1.882e3	0.770	0.84	NO	4.7793	4.7793
27	61 PCB-78	38.82	38.56	3.222e2	2.828e2	0.770	1.14	YES	0.77631	0.00000
28	62 PCB-81	39.16	39.18	3.405e2	4.172e2	0.770	0.82	NO	1.2771	1.2771
29	63 PCB-77	39.77	39.77	5.798e3	7.917e3	0.770	0.73	NO	21.868	21.868



#	Name	Area	RA	nlv	RFI	wtVol	Pred RT	RT	Pred R	RR1	RR1 Err	Conc	%Inc	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.827	8.00		0.000			1548		11.1	1953
229	3rd Function Penta-PCBs				1.3157	5.027	8.00		0.000			2077		20.8	2109
230	4th Function Penta-PCBs				1.0735	5.027	8.00		0.000			142.0		2.33	142.0
231	3rd Function Hexa-PCBs				0.9905	5.027	8.00		0.000			556.9		5.68	638.1
232	4th Function Hexa-PCBs				1.0316	5.027	8.00		0.000			1631		9.30	1631
233	Total Hepta-PCBs				1.3551	5.027	8.00		0.000			1281		11.1	1291
234	4th Function Octa-PCBs				1.0006	5.027	8.00		0.000			220.8		5.62	246.3
235	5th Function Octa-PCBs				1.1498	5.027	8.00		0.000			96.45		1.85	98.96
236	Total Nona-PCBs				0.9523	5.027	8.00		0.000			82.52		1.80	82.52

#	Name	Pred RT	RT	wt Ratio	m2 Ratio	I* Ratio (Pred)	RA	nlv	EMPC	Conc.
24	58 PCB-55	36.30	36.26	8.468e2	1.404e3	0.770	0.50	YES	2.9257	0.00000
25	59 PCB-56/60	36.78	36.78	2.792e4	3.380e4	0.770	0.83	NO	1.0654	105.54
26	60 PCB-79	37.82	37.81	1.414e3	1.652e3	0.770	0.84	NO	4.7793	4.7793
27	61 PCB-78	38.82	38.56	3.222e2	2.826e2	0.770	1.14	YES	0.77631	0.00000
28	62 PCB-81	38.15	38.18	3.408e2	4.172e2	0.770	0.82	NO	1.2771	1.2771
29	63 PCB-77	38.77	38.77	5.799e3	7.917e3	0.770	0.73	NO	21.866	21.866

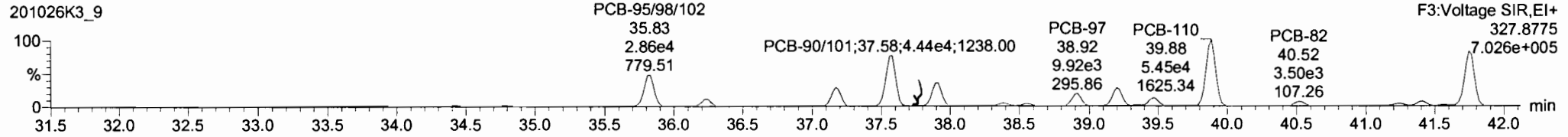
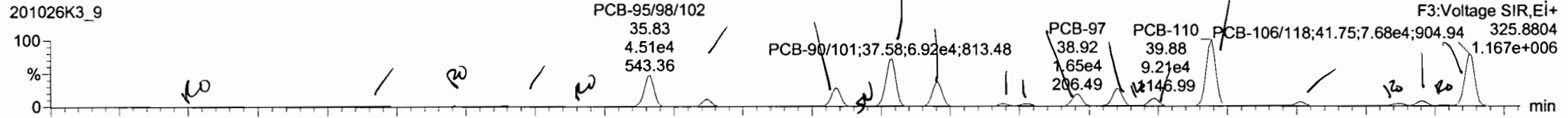


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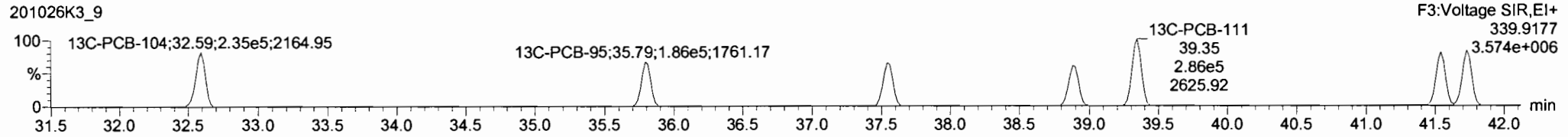
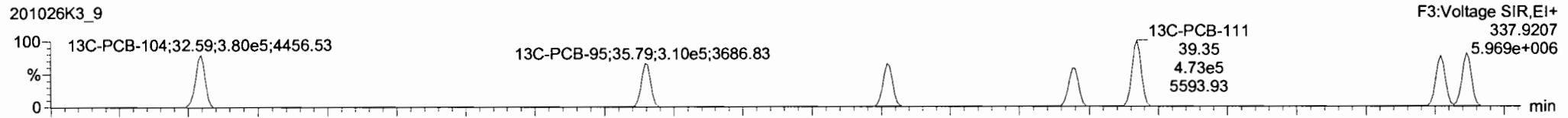
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

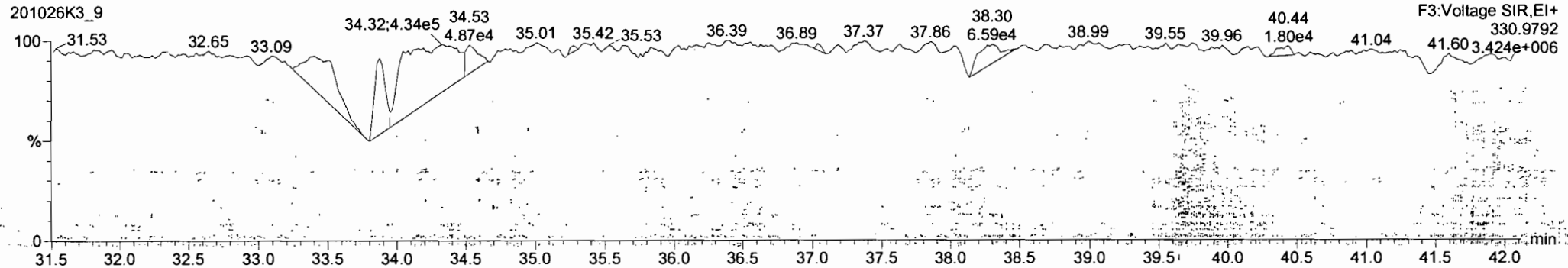
**PCB-104**



**13C-PCB-104**



**PFK3b**



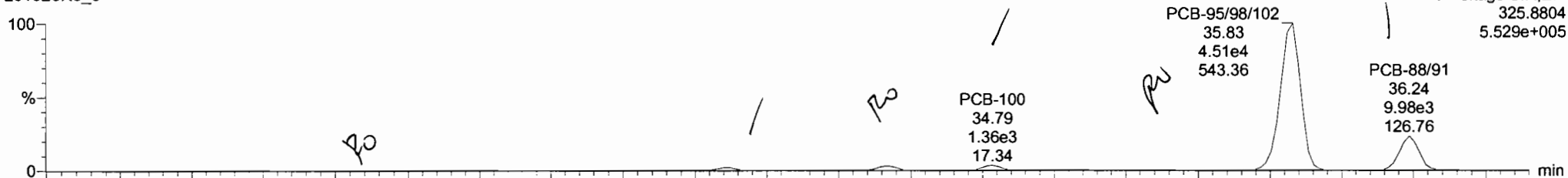
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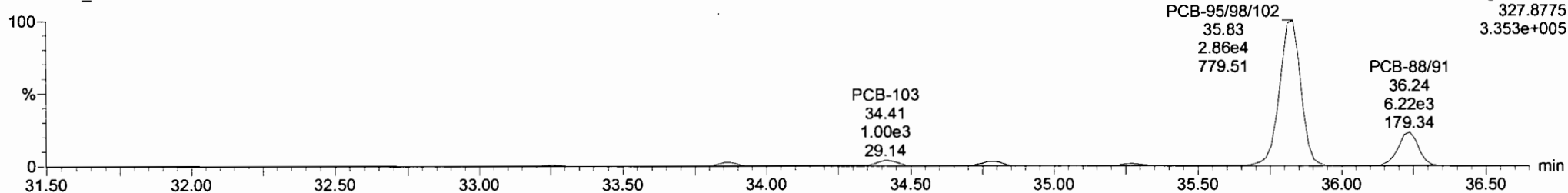
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**PCB-96**

201026K3\_9

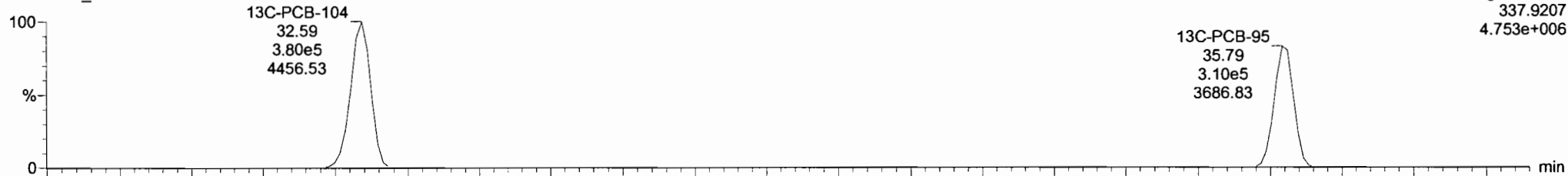


201026K3\_9

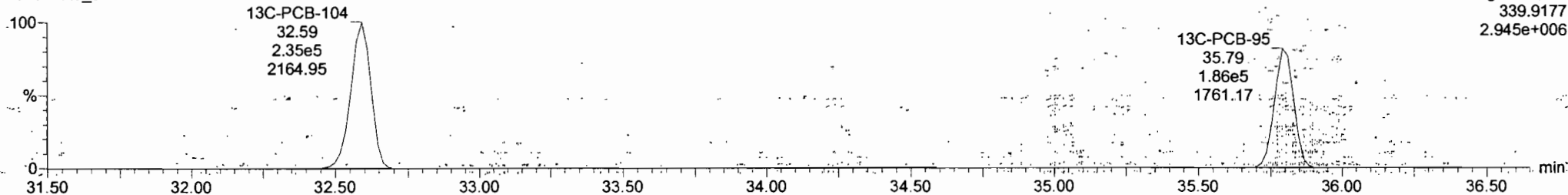


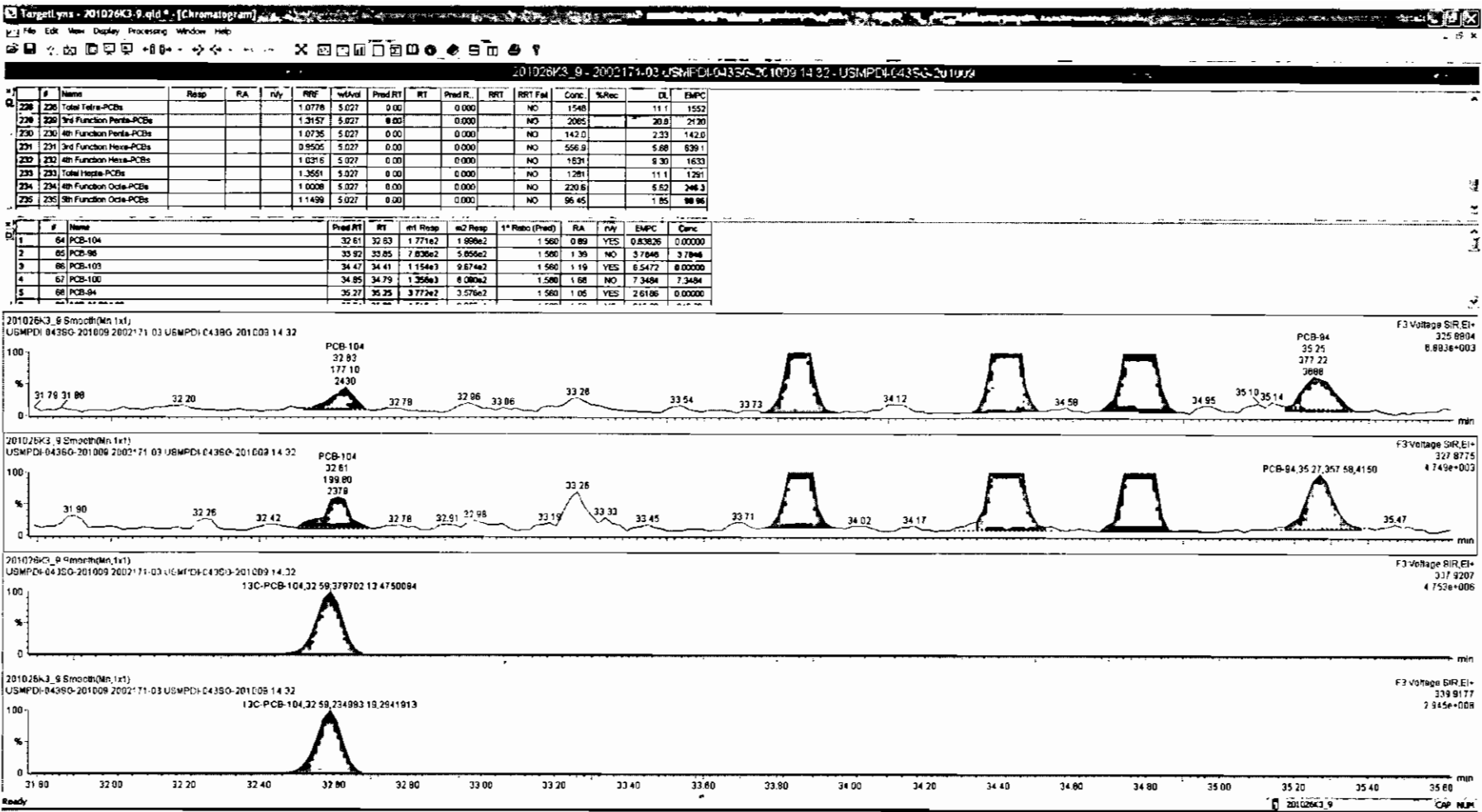
**13C-PCB-95**

201026K3\_9



201026K3\_9

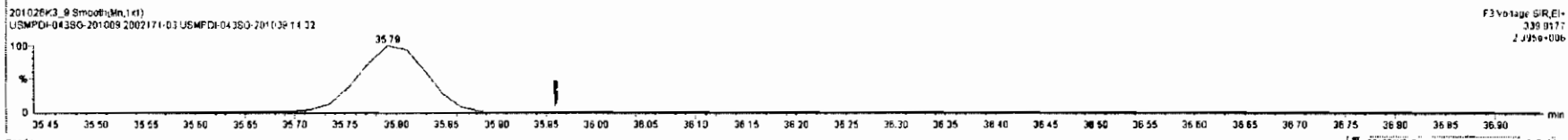
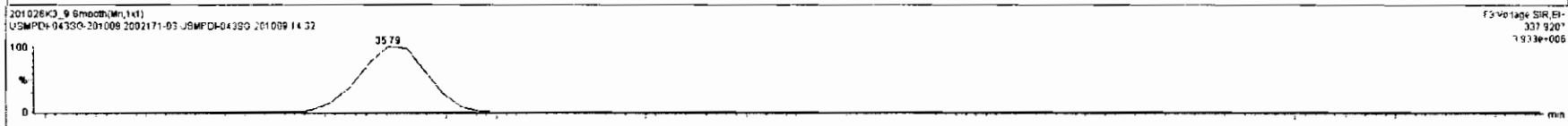
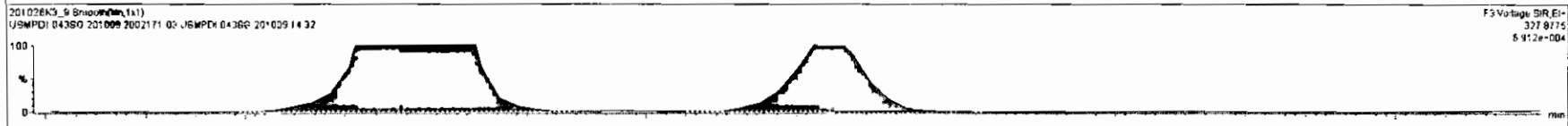
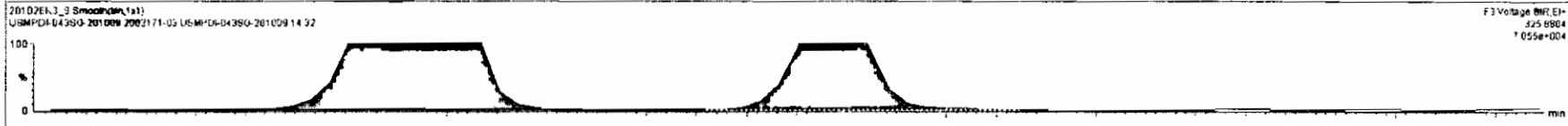






#	Name	Resp	RA	nly	RF	intAcc	Pred RT	RT	Pred R...	WRT	RRT Fat	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.027	0.00	0.000			NO	1546		11.1	1522
229	3rd Function Penta-PCBs				1.0757	5.027	0.00	0.000			NO	2085		29.8	2928
230	4th Function Penta-PCBs				1.0735	5.027	0.00	0.000			NO	142.0		2.33	142.0
231	3rd Function Hexa-PCBs				0.9505	5.027	0.00	0.000			NO	558.9		5.68	838.1
232	4th Function Hexa-PCBs				1.0318	5.027	0.00	0.000			NO	1631		9.30	1633
233	Total Hepta-PCBs				1.3551	5.027	0.00	0.000			NO	1291		11.1	1291
234	4th Function Octa-PCBs				1.0008	5.027	0.00	0.000			NO	220.8		5.62	246.3
235	5th Function Octa-PCBs				1.1498	5.027	0.00	0.000			NO	95.45		1.85	99.95

#	Name	Pred RT	RT	nt Resp	nt2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc
73	PCB-84/2	37.17	37.17	2.536e4	1.565e4	1.580	1.62	NO	160.08	160.08
74	PCB-88	37.36	37.36	4.483e2	3.647e2	1.580	1.23	YES	2.6497	0.00000
75	PCB-301/01	37.53	37.58	8.929e4	4.450e4	1.980	1.56	NO	402.91	402.91
77	PCB-98	38.80	37.91	3.401e4	2.012e4	1.580	1.89	NO	162.71	162.71
78	PCB-113	38.38	38.36	3.116e3	2.275e3	1.580	1.37	NO	12.787	12.787

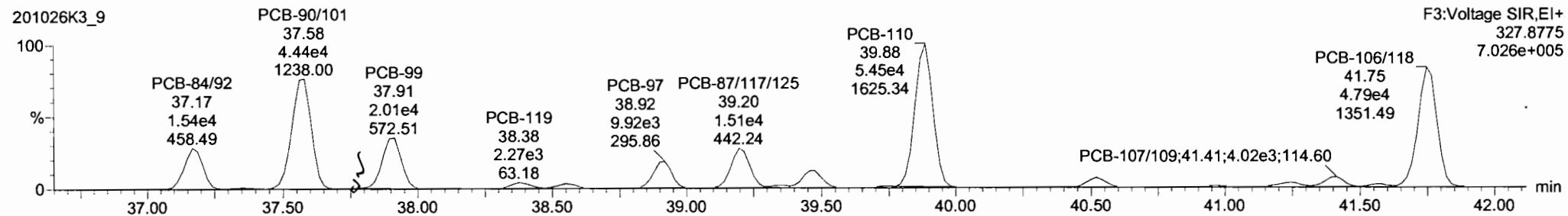
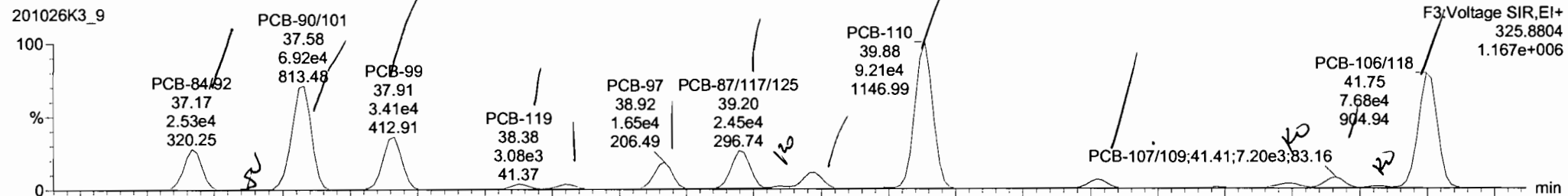


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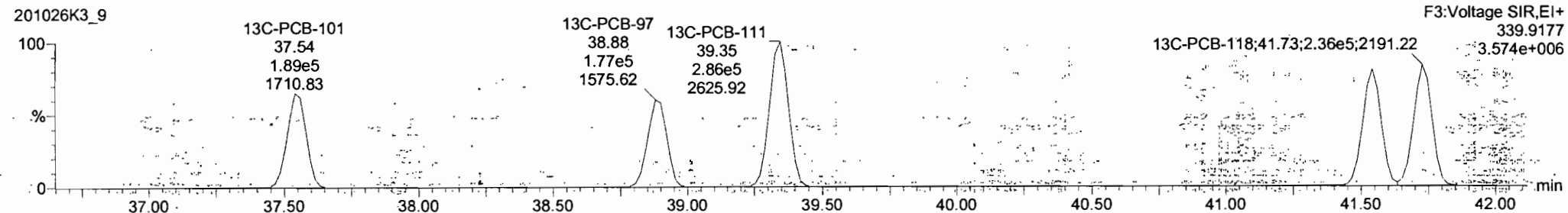
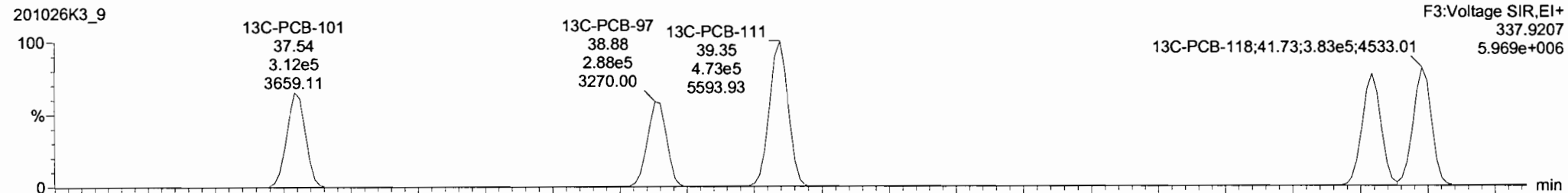
Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time  
 Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

**PCB-119**



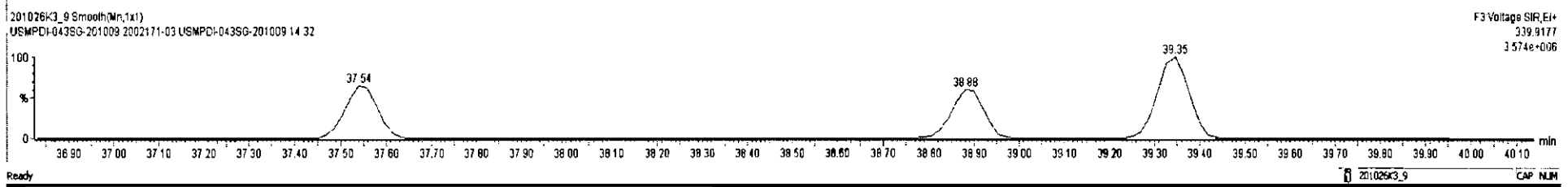
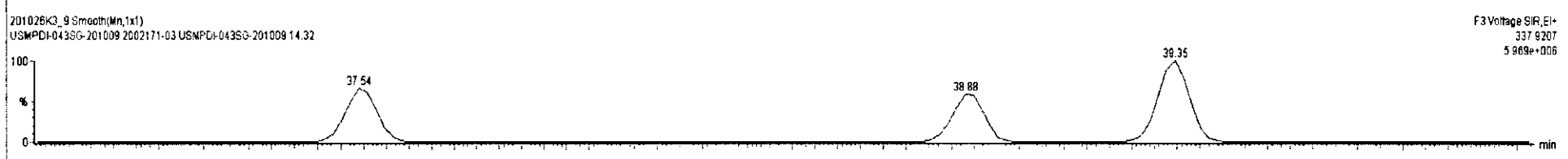
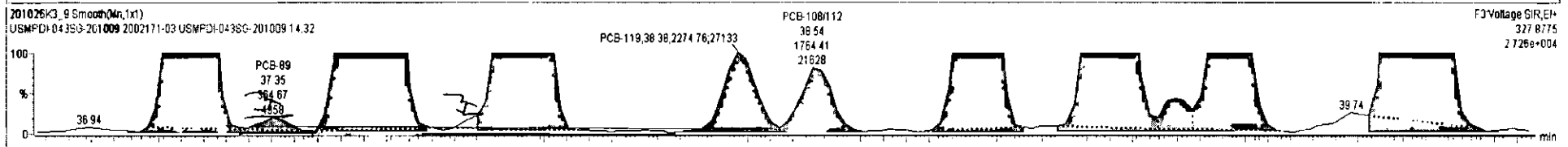
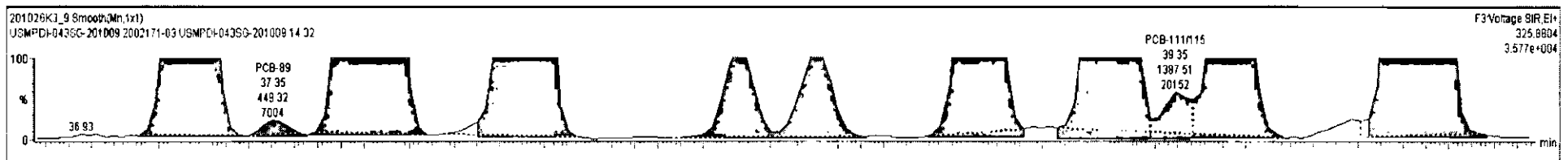
**13C-PCB-111**



201026K3\_9 - 2002171-03 USMPDI-043SG-201009 14.32 - USMPDI-043SG-201009

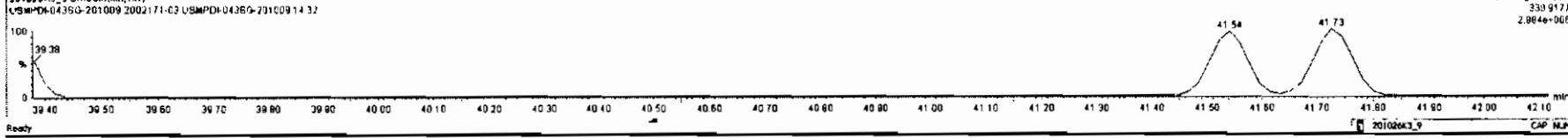
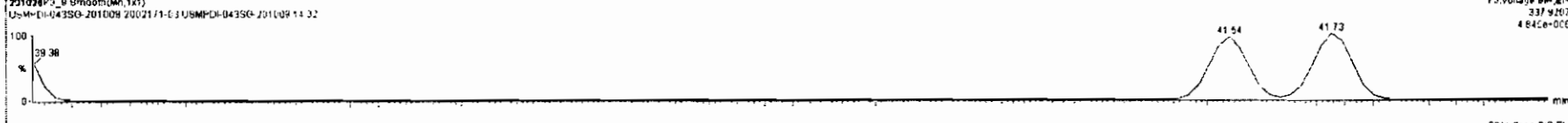
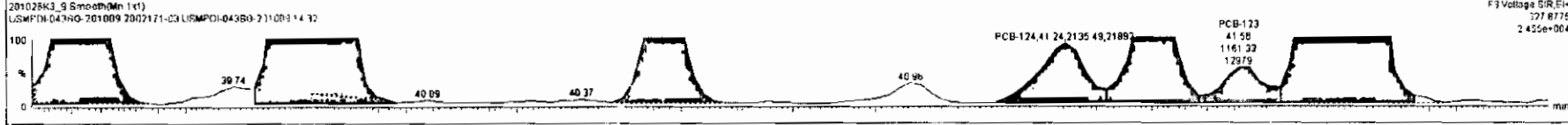
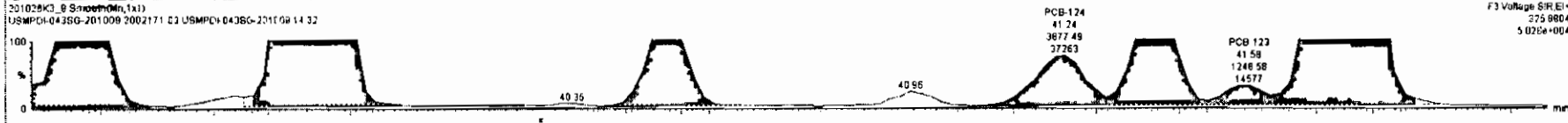
#	Name	Resp	RA	nly	RRF	wIntd	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
226	226 Total Tetra-PCBs				1.0778	5.027	0.00	0.000			NO	1546		11.1	1552
229	229 3rd Function Penta-PCBs				1.3157	5.027	0.00	0.000			NO	2085		20.8	2120
230	230 4th Function Penta-PCBs				1.0735	5.027	0.00	0.000			NO	142.0		2.33	142.0
231	231 3rd Function Hexa-PCBs				0.9505	5.027	0.00	0.000			NO	556.9		5.68	639.1
232	232 4th Function Hexa-PCBs				1.0316	5.027	0.00	0.000			NO	1631		9.30	1633
233	233 Total Hepta-PCBs				1.3551	5.027	0.00	0.000			NO	1281		11.1	1291
234	234 4th Function Octa-PCBs				1.0008	5.027	0.00	0.000			NO	220.6		5.62	246.3
235	235 5th Function Octa-PCBs				1.1499	5.027	0.00	0.000			NO	96.45		1.85	99.96

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
73	PCB-84/82	37.17	37.17	2.536e4	1.566e4	1.560	1.62	NO	160.06	160.06
74	PCB-89	37.36	37.35	4.493e2	3.547e2	1.560	1.23	YES	2.6497	0.00000
75	PCB-90/101	37.55	37.50	6.839e4	4.450e4	1.560	1.56	NO	402.91	402.91
77	PCB-89	37.90	37.91	3.401e4	2.012e4	1.560	1.69	NO	162.71	162.71
78	PCB-119	38.38	38.38	3.116e3	2.275e3	1.560	1.37	NO	12.787	12.787



#	Name	Resp	RA	nly	RFW	wfAct	Pred RT	RT	Pred R	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.027	0.00		0.000		NO	1546		11.1	1552
229	3rd Function Penta-PCBs				1.2157	5.027	0.00		0.000		NO	2085		20.8	2120
230	4th Function Penta-PCBs				1.0735	5.027	0.00		0.000		NO	142.0		2.33	142.0
231	3rd Function Hexa-PCBs				0.9505	5.027	0.00		0.000		NO	558.9		5.69	639.1
232	4th Function Hexa-PCBs				1.0316	5.027	0.00		0.000		NO	1631		9.30	1633
233	Total Hepta-PCBs				1.3551	5.027	0.00		0.000		NO	1281		11.1	1291
234	4th Function Octa-PCBs				1.0008	5.027	0.00		0.000		NO	220.8		5.62	246.3
235	5th Function Octa-PCBs				1.1439	5.027	0.00		0.000		NO	95.45		1.85	99.86

#	Name	Pred RT	RT	m1 Resp	m2 Resp	**Ratio (Pred)	RA	nly	EMPC	Conc.
73	PCB-0482	37.17	37.17	2.536e4	1.566e4	1.560	1.62	NO	180.06	180.06
74	PCB-86	37.36	37.35	4.483e2	3.647e2	1.560	1.23	YES	2.6497	0.00000
75	PCB-90A-D1	37.55	37.58	6.939e4	4.440e4	1.560	1.56	NO	402.91	402.91
77	PCB-99	37.90	37.91	3.401e4	2.012e4	1.560	1.68	NO	162.71	162.71
78	PCB-119	38.38	38.38	3.118e3	2.275e3	1.560	1.37	NO	12.787	12.787

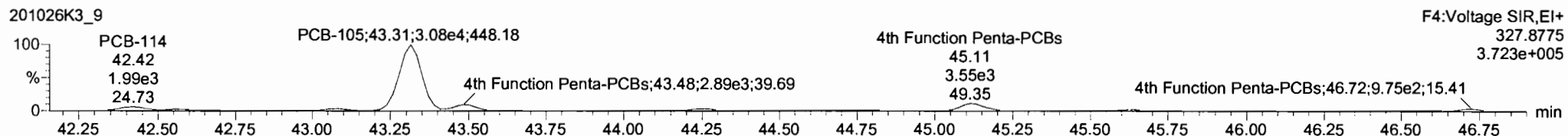
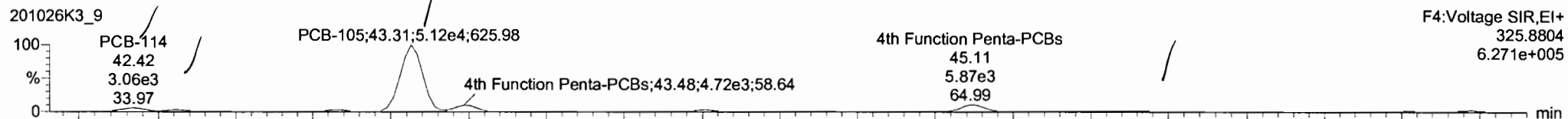


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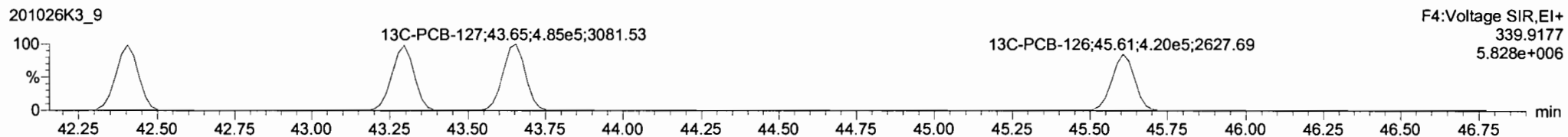
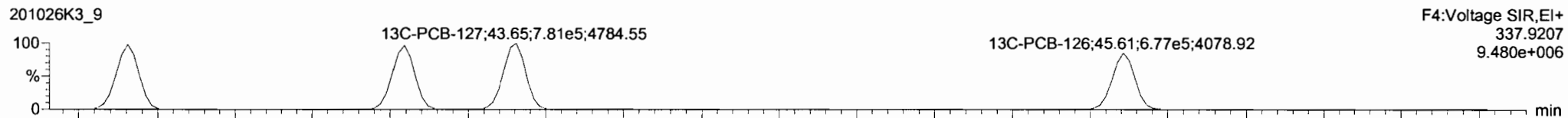
Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

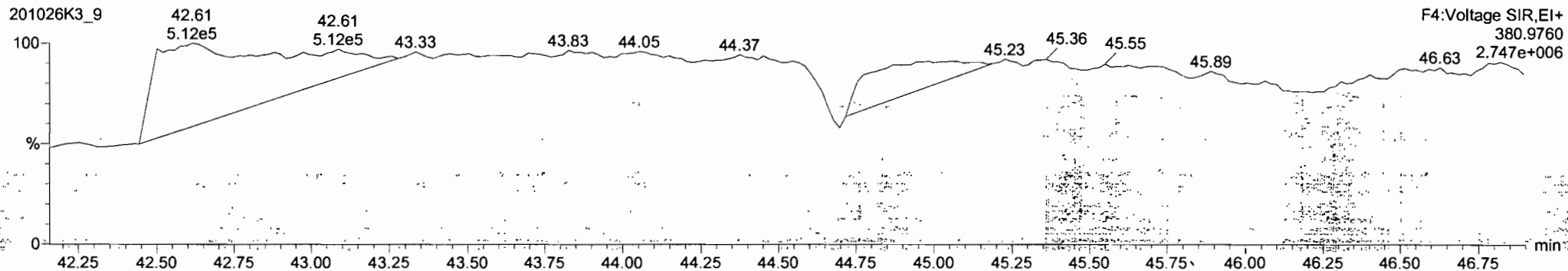
**PCB-114**



**13C-PCB-114**

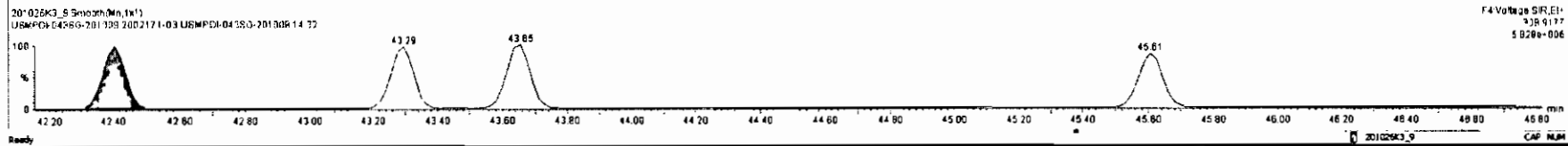
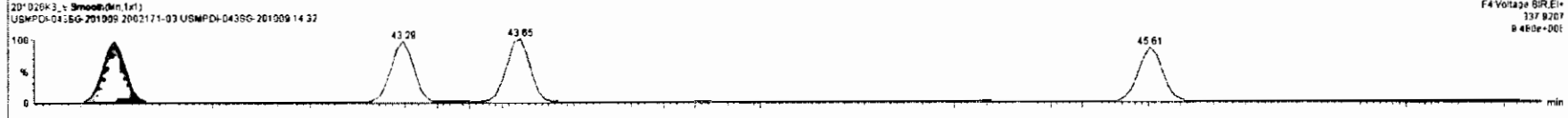
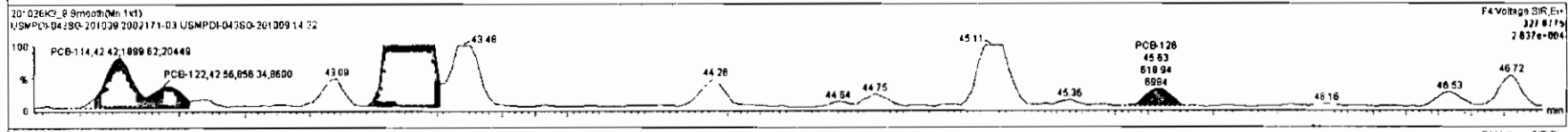
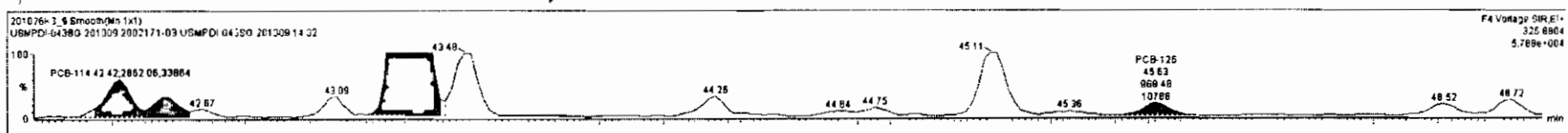


**PFK4a**



#	Name	Resp	RA	rvy	rvr	wAdj	Prod RT	RT	Prod R	RRT	RRT Fcl	Conc	%Inc	DL	ChPC
228	Total Tetra-PCBs				1.0778	5.027	0.00		0.000		NO	1548		11.1	1562
229	3rd Function Penta-PCBs				1.3157	5.027	0.00		0.000		NO	2085		20.8	2118
230	4th Function Penta-PCBs				1.0735	5.027	0.00		0.000		NO	141.8		2.33	141.0
231	3rd Function Hexa-PCBs				0.8505	5.027	0.00		0.000		NO	586.8		5.88	636.1
232	4th Function Hexa-PCBs				1.0716	5.027	0.00		0.000		NO	1821		9.30	1833
233	Total Hepta-PCBs				1.3551	5.027	0.00		0.000		NO	1281		11.1	1291
234	4th Function Octa-PCBs				1.0008	5.027	0.00		0.000		NO	220.6		5.62	246.3
235	5th Function Octa-PCBs				1.1489	5.027	0.00		0.000		NO	95.45		1.85	95.96

#	Name	Prod RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Prod)	RA	rvy	ChPC	Conc
1	93 PCB-114	42.43	42.42	2.852e3	1.890e3	1.580	1.51	NO	6.8039	6.8009
2	94 PCB-122	42.57	42.58	1.483e3	6.583e2	1.980	1.71	NO	4.0128	4.0128
3	95 PCB-105	43.31	43.31	5.028e4	3.079e4	1.660	1.85	NO	127.70	127.70
4	97 PCB-126	45.82	45.83	9.895e2	6.195e2	1.580	1.56	NO	2.4568	2.4568

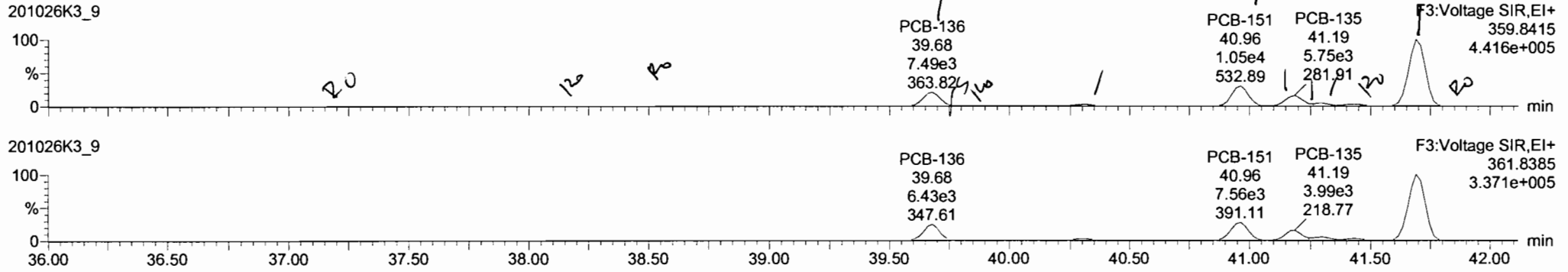


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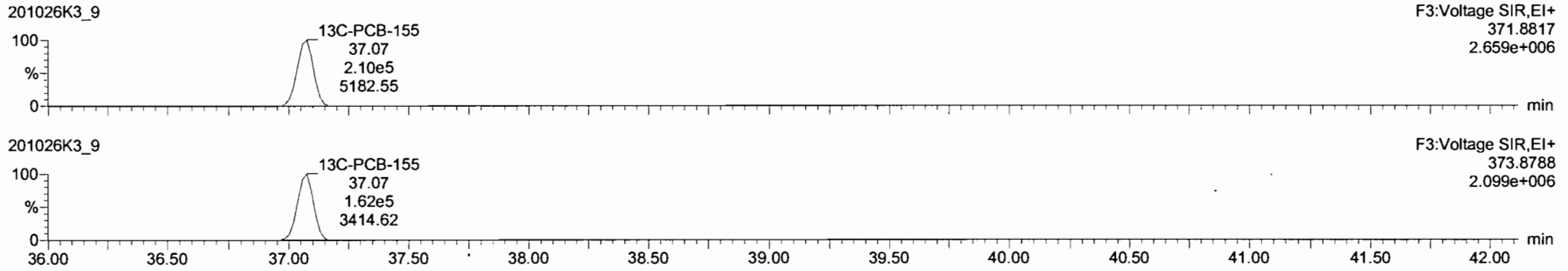
Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

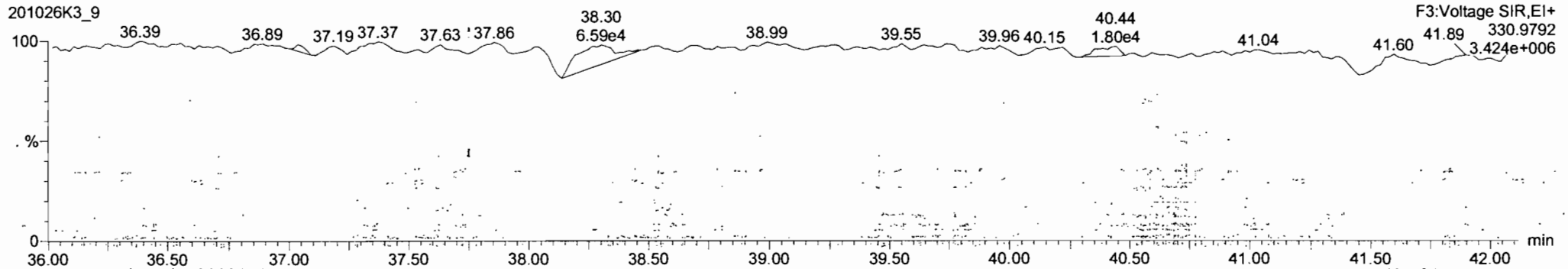
**PCB-155**



**13C-PCB-155**

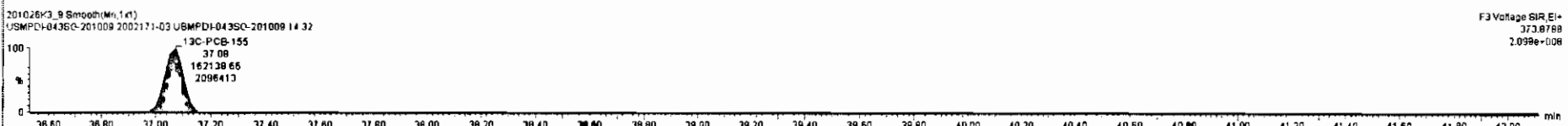
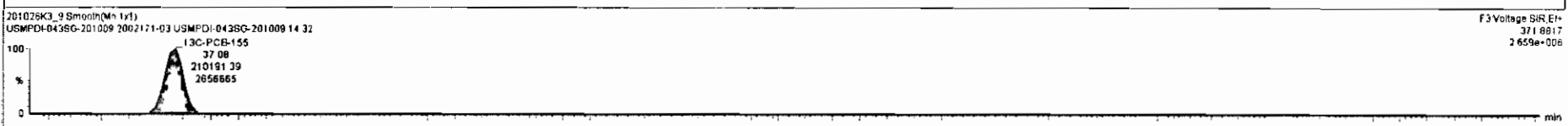
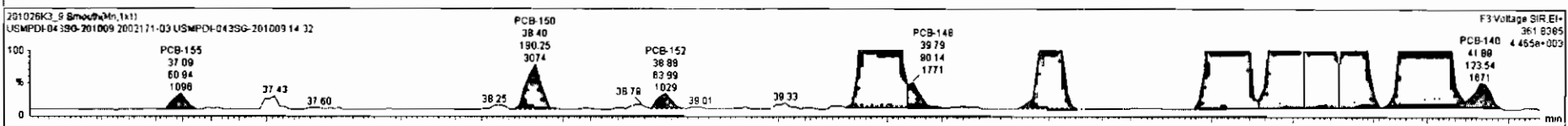
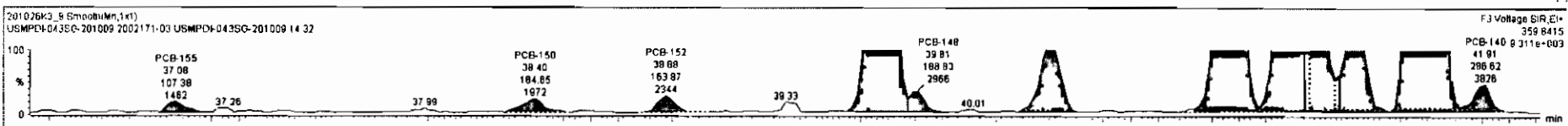


**PFK3c**



#	Name	Resp	RA	n/y	RF	m/Act	Pred RT	RT	Pred P...	RT	RTI Fail	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0278	5.027	0.00		0.000		NO	1548		11.1	1552
229	3rd Function Penta-PCBs				1.3157	5.027	0.00		0.000		NO	2085		20.6	2118
230	4th Function Penta-PCBs				1.0735	5.027	0.00		0.000		NO	141.0		2.33	141.0
231	3rd Function Hexa-PCBs				0.9508	5.027	0.00		0.000		NO	834.2		5.88	851.2
232	4th Function Hexa-PCBs				1.0316	5.027	0.00		0.000		NO	1631		9.30	1633
233	Total Hepta-PCBs				1.3551	5.027	0.00		0.000		NO	1281		11.1	1291
234	4th Function Octa-PCBs				1.0008	5.027	0.00		0.000		NO	220.6		5.62	246.3
235	5th Function Octa-PCBs				1.1439	5.027	0.00		0.000		NO	98.45		1.85	99.96

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	98 PCB-155	37.08	37.08	1.074e2	8.094e1	1.240	1.76	YES	0.69891	0.00000
2	99 PCB-150	38.40	38.40	1.647e2	1.902e2	1.240	0.87	YES	1.4969	0.00000
3	100 PCB-152	38.88	38.88	1.839e2	8.399e1	1.240	2.56	YES	0.64551	0.00000
4	102 PCB-136	39.68	39.68	7.494e3	8.377e3	1.240	1.18	NO	72.594	72.594
5	103 PCB-148	39.79	39.81	1.888e2	9.014e1	1.240	2.09	YES	1.2620	0.00000
6	104 PCB-154	40.30	40.31	8.939e2	7.068e2	1.240	1.26	NO	9.3245	8.3245

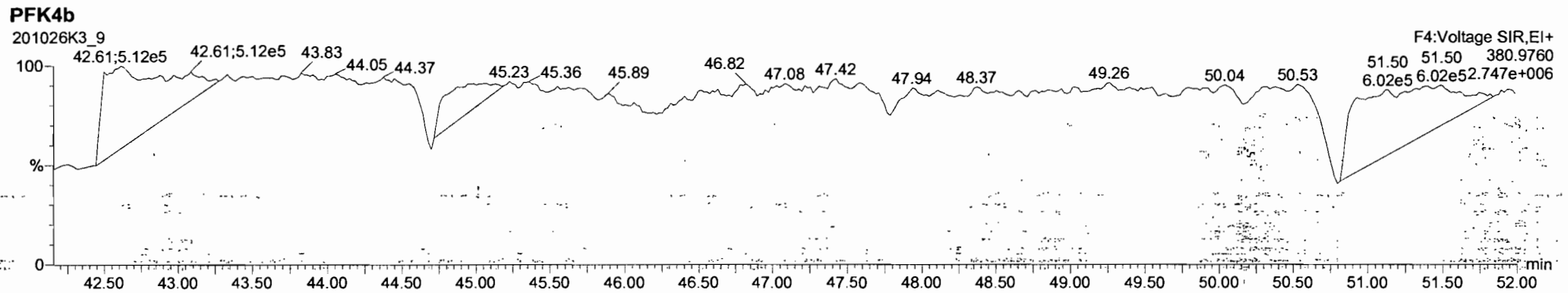
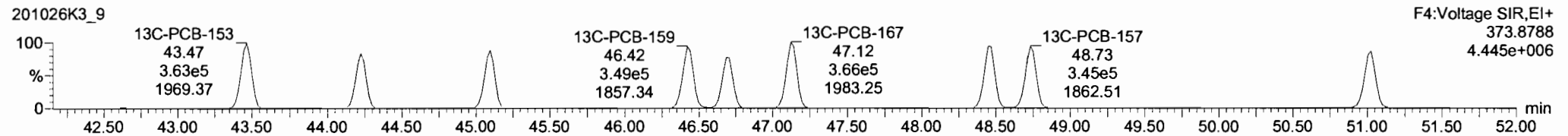
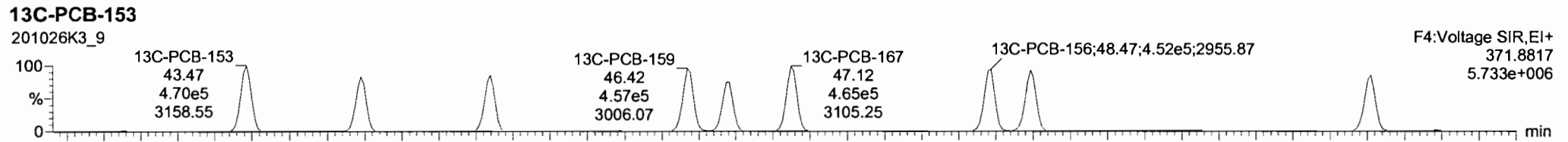
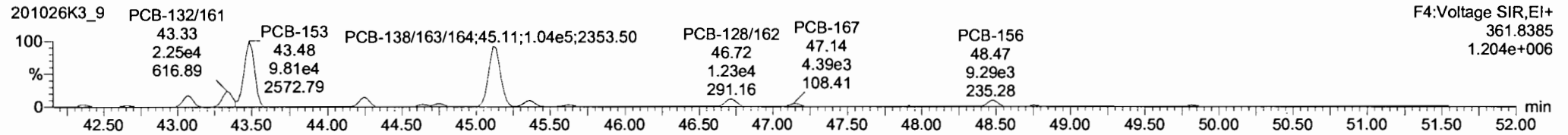
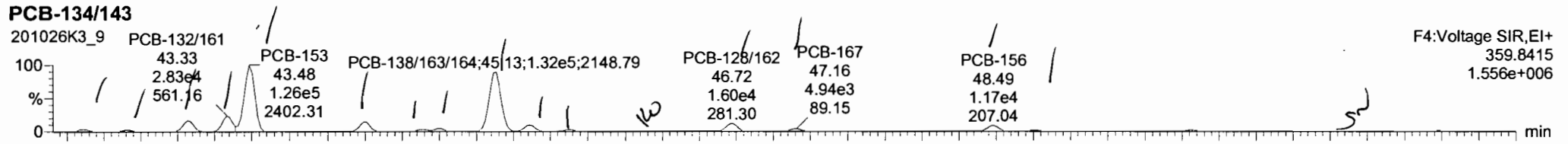




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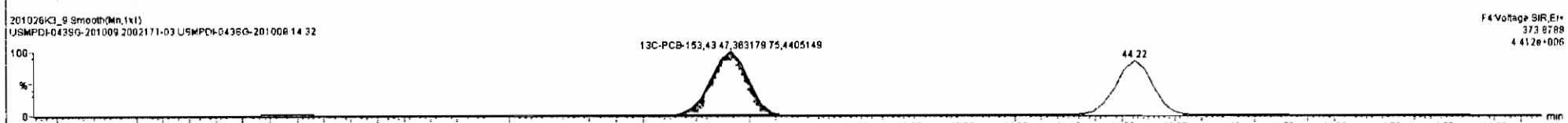
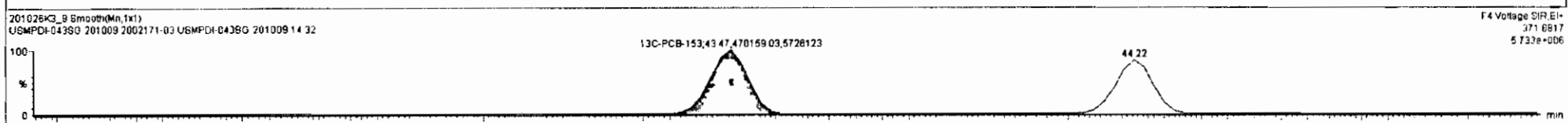
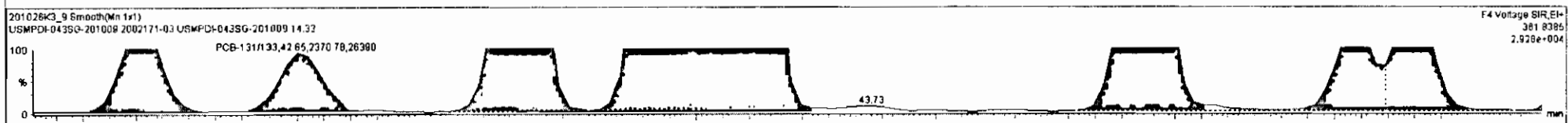
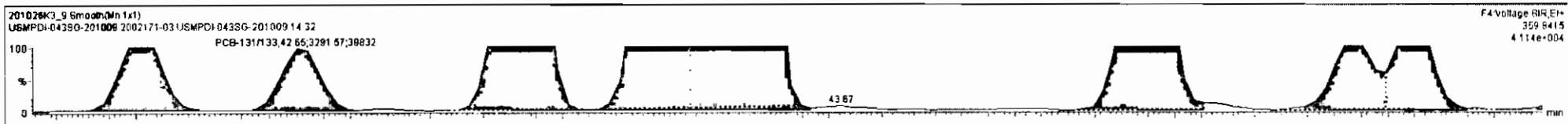
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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009



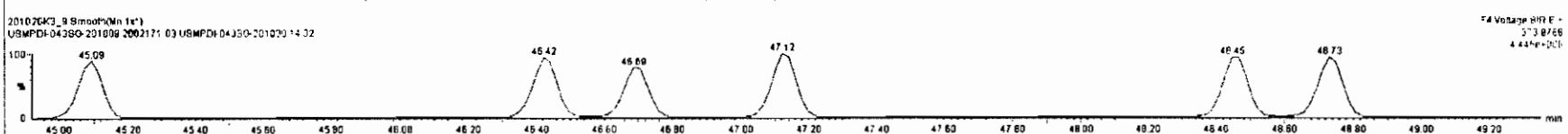
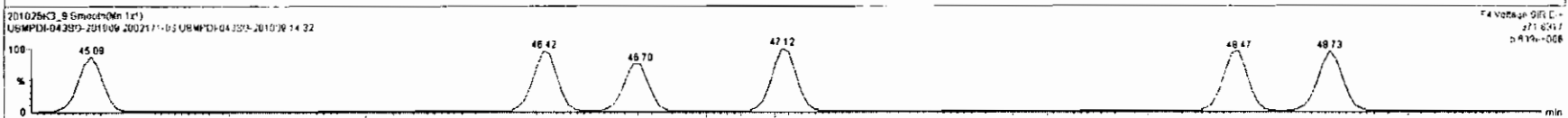
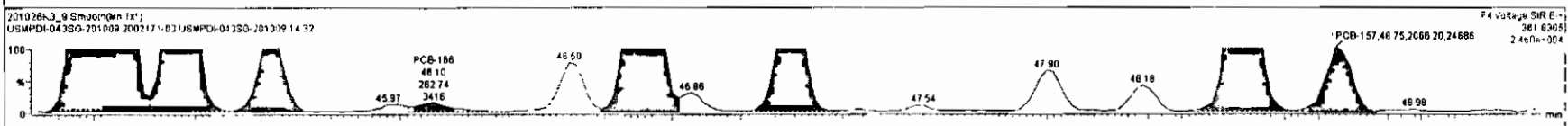
#	Name	Resp	RA	n/y	RWF	wtVol	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
228	Total Tetra-PCBs					1.0778	5.027	0.00	0.000		NO	1548		11.1	1552
229	3rd Function Penta-PCBs					1.3157	5.027	0.00	0.000		NO	2085		20.8	2118
230	4th Function Penta-PCBs					1.0735	5.027	0.00	0.000		NO	141.0		2.33	141.0
231	3rd Function Hexa-PCBs					0.9505	5.027	0.00	0.000		NO	634.2		5.68	651.2
232	4th Function Hexa-PCBs					1.0316	5.027	0.00	0.000		NO	1636		9.30	1636
233	Total Hepta-PCBs					1.3551	5.027	0.00	0.000		NO	1281		11.1	1291
234	4th Function Octa-PCBs					1.0008	5.027	0.00	0.000		NO	220.6		5.62	246.3
235	5th Function Octa-PCBs					1.1499	5.027	0.00	0.000		NO	96.45		1.85	99.06

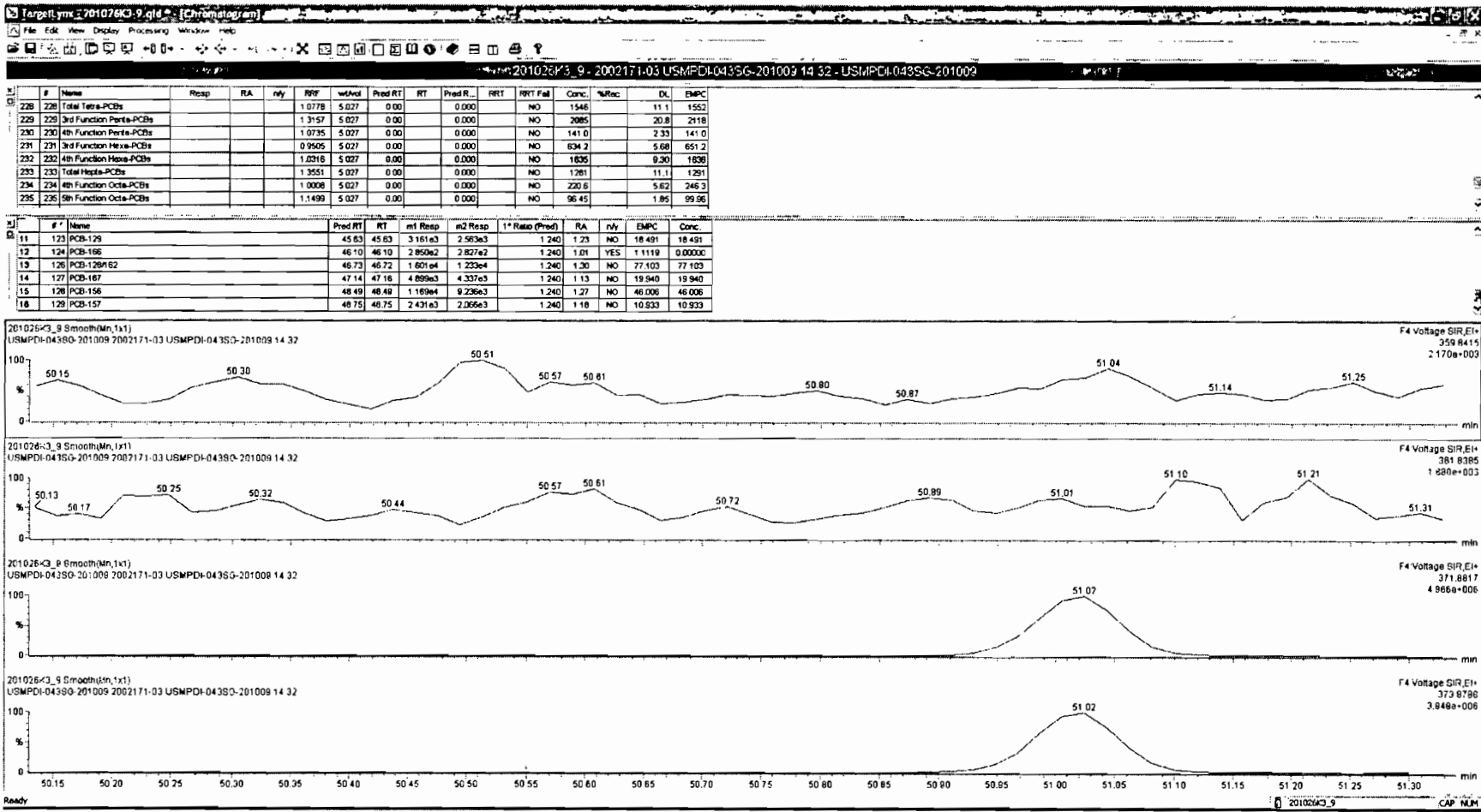
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1st Ratio (Prod)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.34	42.37	4.49663	3.60263	1.240	1.25	NO	25.471	25.471
2	112 PCB-131/133	42.67	42.65	3.29263	2.37163	1.240	1.39	NO	16.489	16.489
3	114 PCB-146/165	43.07	43.07	2.16264	1.68264	1.240	1.28	NO	90.270	90.270
4	115 PCB-132/151	43.31	43.33	2.84964	2.26864	1.240	1.26	NO	119.27	119.27
5	116 PCB-153	43.48	43.48	1.26765	9.86064	1.240	1.28	NO	502.30	502.30
6	118 PCB-141	44.24	44.24	1.87864	1.43364	1.240	1.31	NO	94.123	94.123



#	Name	Comp	RA	n/y	RFY	wt/ct	Prod RT	RT	Prod P.	RFY	RFY Fail	Conc	%/Conc	DL	EMPC
220	220	Total Total-PCBs			1.0778	5.027	0.00		0.000		NO	1548		11.1	1552
220	220	3rd Function Pent-PCBs			1.3157	5.027	0.00		0.000		NO	2095		30.8	2118
230	230	4th Function Pent-PCBs			1.0735	5.027	0.00		0.000		NO	141.0		2.33	141.0
201	201	3rd Function Hexa-PCBs			0.9505	5.027	0.00		0.000		NO	634.2		5.68	651.2
202	202	4th Function Hexa-PCBs			1.0916	5.027	0.00		0.000		NO	1836		9.30	1836
233	233	Total Hepta-PCBs			1.3551	5.027	0.00		0.000		NO	1281		11.1	1281
234	234	4th Function Octa-PCBs			1.0008	5.027	0.00		0.000		NO	220.8		8.82	246.3
235	235	5th Function Octa-PCBs			1.1499	5.027	0.00		0.000		NO	86.45		1.85	98.86

#	Name	Prod RT	RT	wt/Comp	n3 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc
11	123 PCB-129	45.63	45.63	3.161e3	2.583e3	1.240	1.23	NO	18.491	18.491
12	124 PCB-166	46.10	46.10	2.050e2	2.827e2	1.240	1.01	YES	1.1119	0.00000
13	126 PCB-128A82	46.73	46.72	1.801e4	1.233e4	1.240	1.30	NO	77.103	77.103
14	127 PCB-187	47.14	47.18	4.088e3	4.337e3	1.240	1.13	NO	19.940	19.940
15	128 PCB-156	48.48	48.48	1.195e4	8.236e3	1.240	1.27	NO	46.006	46.006
16	129 PCB-157	48.75	48.75	2.431e3	2.056e3	1.240	1.16	NO	10.923	10.933



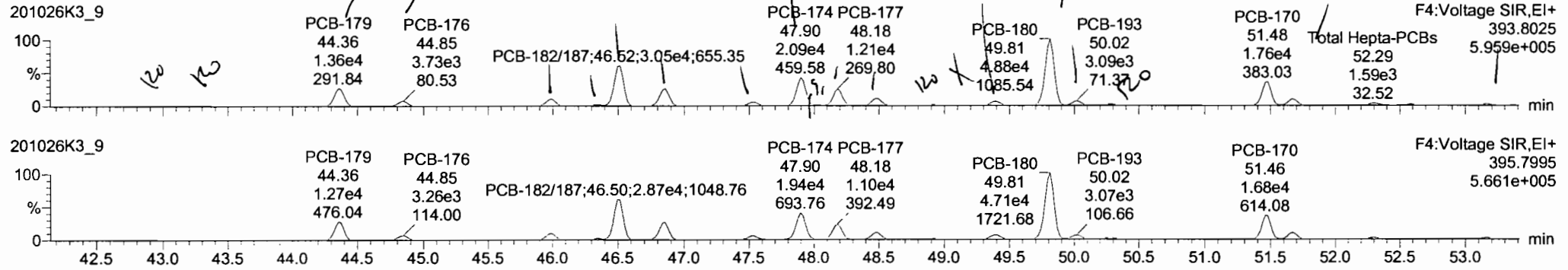


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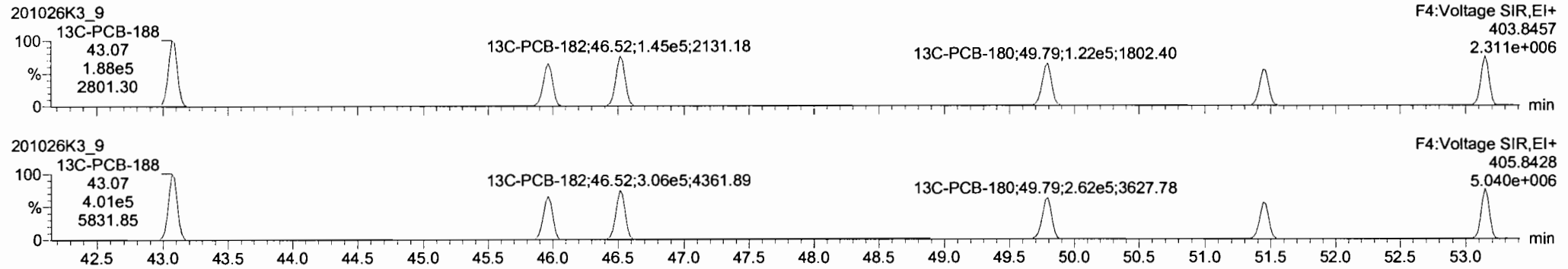
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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

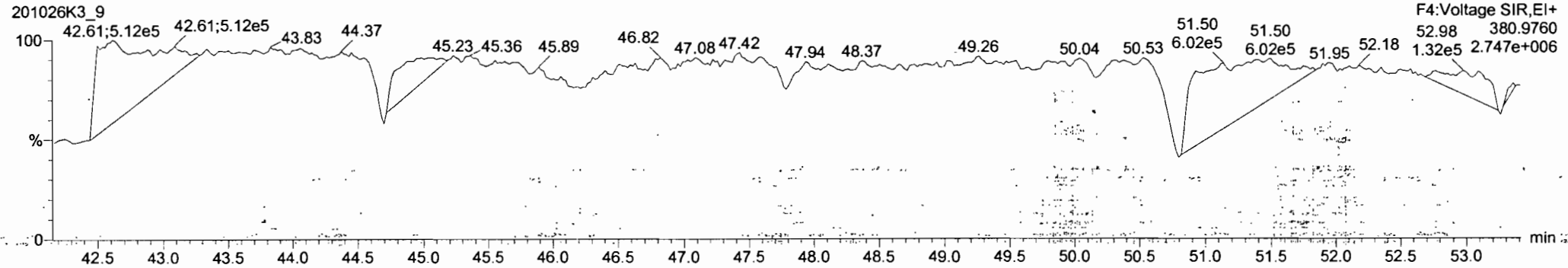
**PCB-188**



**13C-PCB-188**



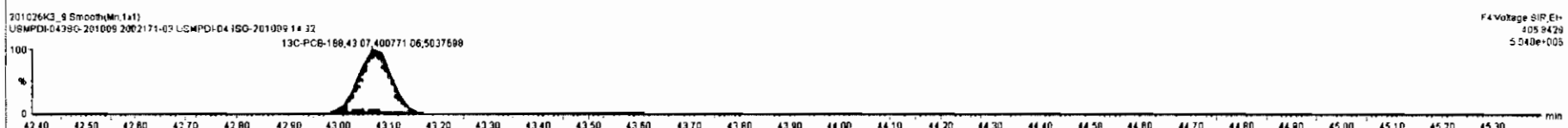
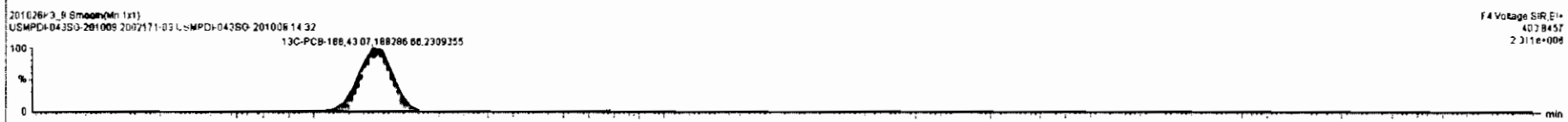
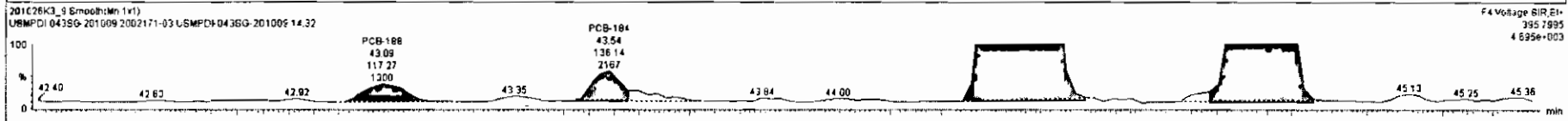
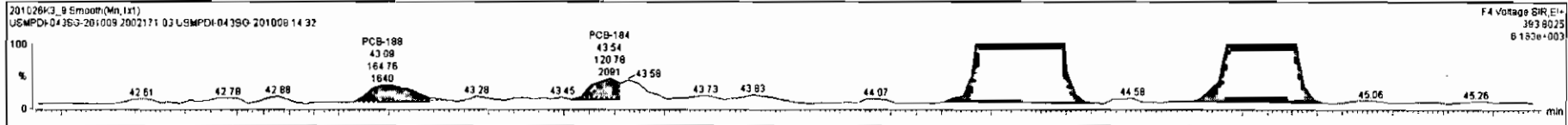
**PFK4c**



201026K3\_9\_2002171-03 USMPDI-043SG-201009 14 32 - USMPDI-043SG-201009

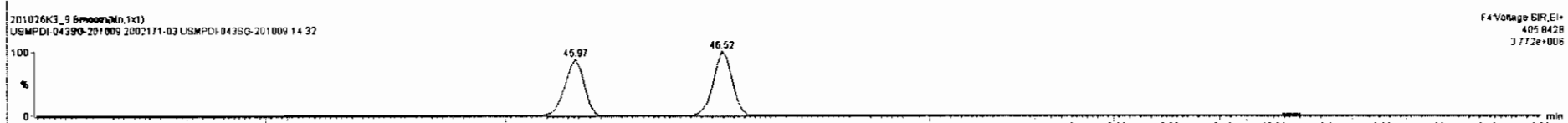
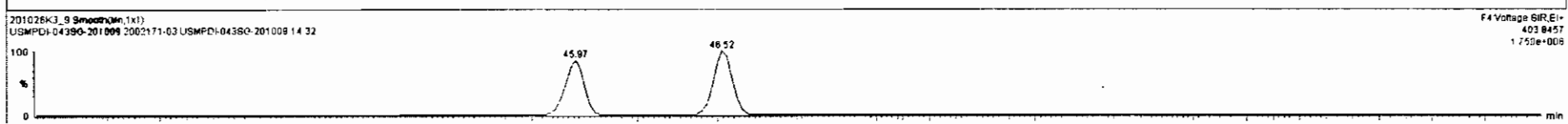
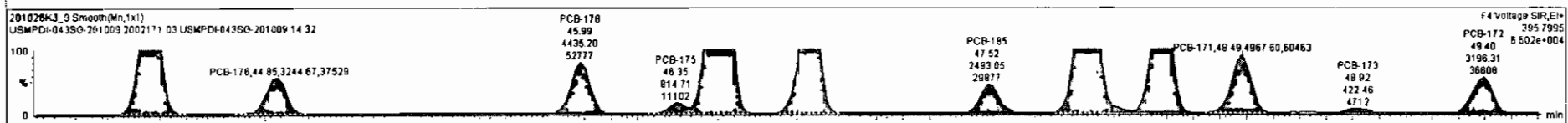
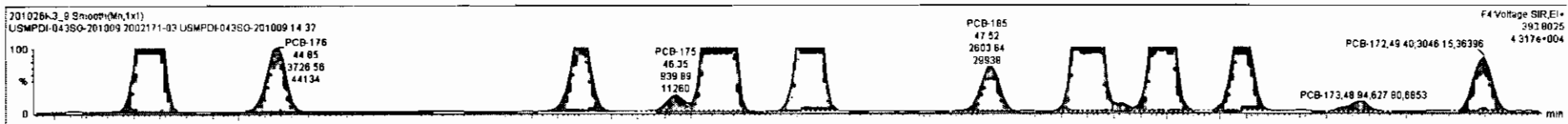
#	Name	Resp	RA	rly	RRP	mVal	Pred RT	RT	Pred R...	RRT	NRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.027	0.00	0.000			NO	1546		11.1	1552
229	229 3rd Function Penta-PCBs				1.3157	5.027	0.00	0.000			NO	2085		20.8	2118
230	230 4th Function Penta-PCBs				1.0735	5.027	0.00	0.000			NO	141.0		2.33	141.0
231	231 3rd Function Hexa-PCBs				0.9505	5.027	0.00	0.000			NO	634.2		5.68	651.2
232	232 4th Function Hexa-PCBs				1.0016	5.027	0.00	0.000			NO	1835		9.30	1838
233	233 Total Hepta-PCBs				1.3551	5.027	0.00	0.000			NO	1281		11.1	1292
234	234 4th Function Octa-PCBs				1.0008	5.027	0.00	0.000			NO	220.8		5.62	248.3
235	235 5th Function Octa-PCBs				1.1499	5.027	0.00	0.000			NO	96.45		1.85	99.96

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rly	EMPC	Conc.
1	131 PCB-188	43.11	43.09	1.649e2	1.173e2	1.050	1.41	YES	0.62863	0.00000
2	132 PCB-184	43.56	43.54	1.209e2	1.361e2	1.050	0.89	YES	0.64662	0.00000
3	133 PCB-179	44.36	44.36	1.362e4	1.272e4	1.050	1.07	NO	68.514	68.514
4	134 PCB-176	44.85	44.85	3.727e3	3.245e3	1.050	1.15	NO	17.991	17.991
5	136 PCB-178	45.98	45.99	4.960e3	4.435e3	1.050	1.12	NO	33.640	33.640
6	137 PCB-175	46.35	46.35	9.399e2	8.147e2	1.050	1.15	NO	6.1970	6.1970



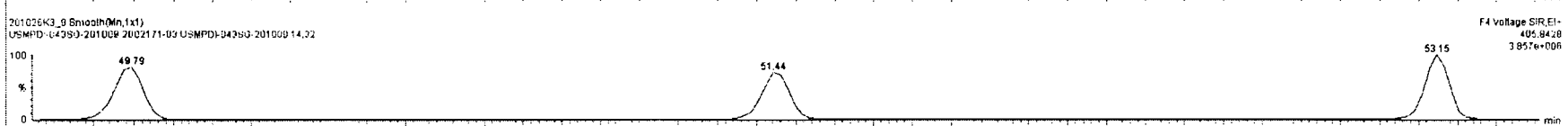
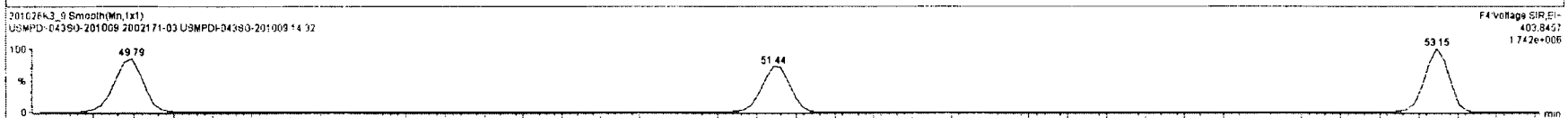
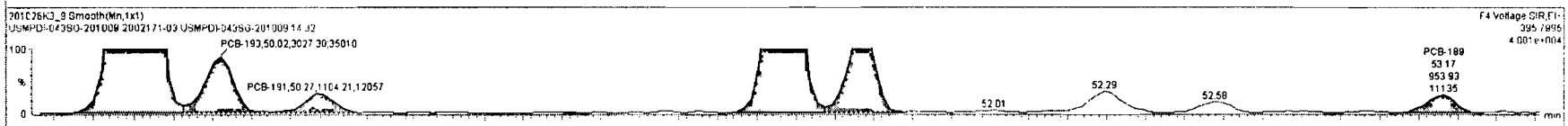
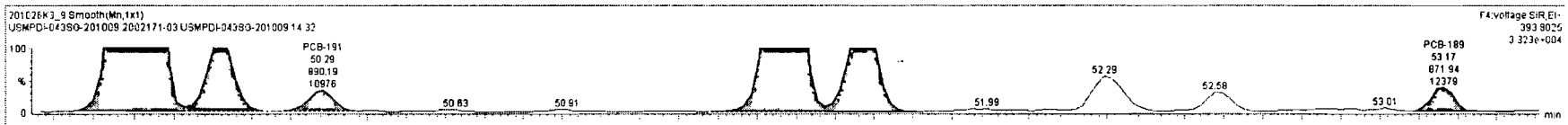
#	Name	Resp	RA	n/y	FW	MidVal	Prod RT	RT	Prod.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
226	226 Total Tetra-PCBs				1.0778	5.027	0.00		0.000		NO	1548		11.1	1553
229	229 3rd Function Penta-PCBs				1.3157	5.027	0.00		0.000		NO	2085		20.8	2118
230	230 4th Function Penta-PCBs				1.0735	5.027	0.00		0.000		NO	141.0		2.33	141.0
231	231 3rd Function Hexa-PCBs				0.9505	5.027	0.00		0.000		NO	534.2		5.68	651.2
232	232 4th Function Hexa-PCBs				1.0316	5.027	0.00		0.000		NO	1635		9.30	1636
233	233 Total Hepta-PCBs				1.3661	5.027	0.00		0.000		NO	1281		11.1	1292
234	234 4th Function Octa-PCBs				1.0008	5.027	0.00		0.000		NO	220.8		5.62	246.3
235	235 5th Function Octa-PCBs				1.1499	5.027	0.00		0.000		NO	96.45		1.85	98.96

#	Name	Prod RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Conc
1	131 PCB-188	43.11	43.09	1.648e2	1.173e2	1.050	1.41	YES	0.62953	0.00000
2	132 PCB-184	43.56	43.54	1.208e2	1.361e2	1.050	0.89	YES	0.64862	0.00000
3	133 PCB-179	44.36	44.36	1.362e4	1.272e4	1.050	1.07	NO	68.514	68.514
4	134 PCB-176	44.85	44.85	3.727e3	3.245e3	1.050	1.15	NO	17.991	17.991
5	136 PCB-178	45.99	45.99	4.960e3	4.435e3	1.050	1.12	NO	33.640	33.640
8	137 PCB-175	46.35	46.35	9.399e2	8.147e2	1.050	1.15	NO	6.1970	6.1970



#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred R	RRT	RR1	RR1 Err	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.027	0.00		0.000				1546	11.1	1552	
229	3rd Function Penta-PCBs				1.3157	5.027	0.00		0.000				2065	20.8	2118	
230	4th Function Penta-PCBs				1.0735	5.027	0.00		0.000				141.0	2.33	141.0	
231	3rd Function Hexa-PCBs				0.9505	5.027	0.00		0.000				634.2	5.68	651.2	
232	4th Function Hexa-PCBs				1.0318	5.027	0.00		0.000				1835	9.30	1836	
233	Total Hepta-PCBs				1.3551	5.027	0.00		0.000				1281	11.1	1292	
234	4th Function Octa-PCBs				1.0008	5.027	0.00		0.000				220.6	5.82	246.3	
235	5th Function Octa-PCBs				1.1499	5.027	0.00		0.000				98.45	1.85	99.96	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	nly	EMPC	Conc.
11	142 PCB-181	48.02	47.99	3.486e2	3.096e2	1.050	1.12	NO	2.3019	2.3019
12	143 PCB-177	48.20	48.18	1.212e4	1.104e4	1.050	1.10	NO	93.830	93.830
13	144 PCB-171	48.30	48.49	5.404e3	4.989e3	1.050	1.09	NO	40.810	40.810
14	145 PCB-173	48.33	48.34	8.278e2	4.225e2	1.050	1.49	YES	3.7892	0.00000
15	148 PCB-172	48.39	49.40	3.046e3	3.196e3	1.050	0.95	NO	23.508	23.508
16	149 PCB-180	49.81	49.81	4.881e4	4.710e4	1.050	1.04	NO	351.83	351.83





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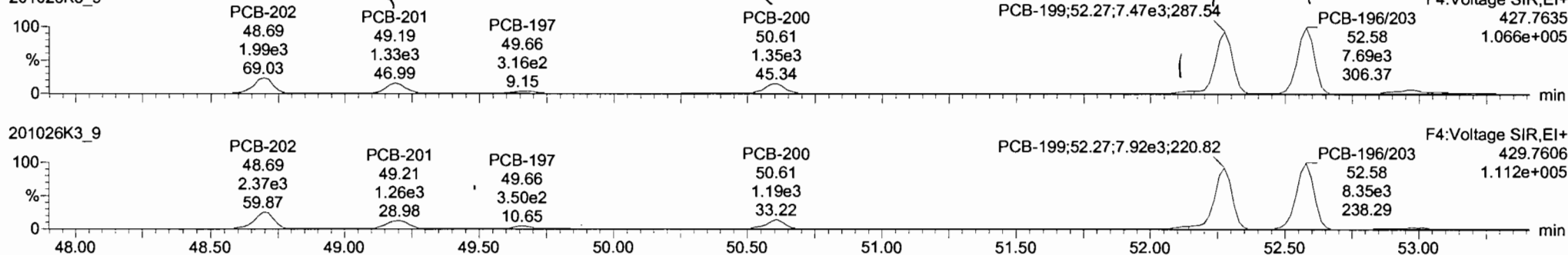
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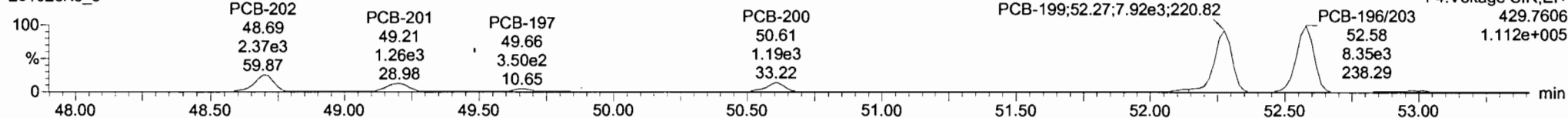
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**PCB-202**

201026K3\_9

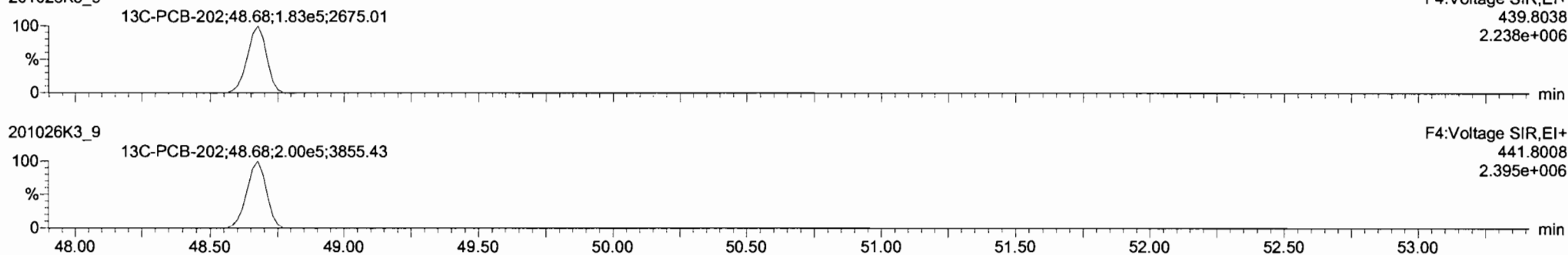


201026K3\_9

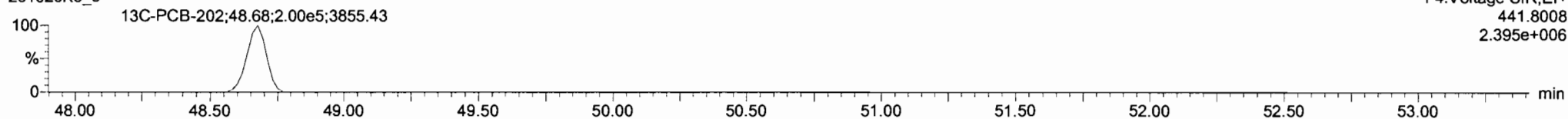


**13C-PCB-202**

201026K3\_9

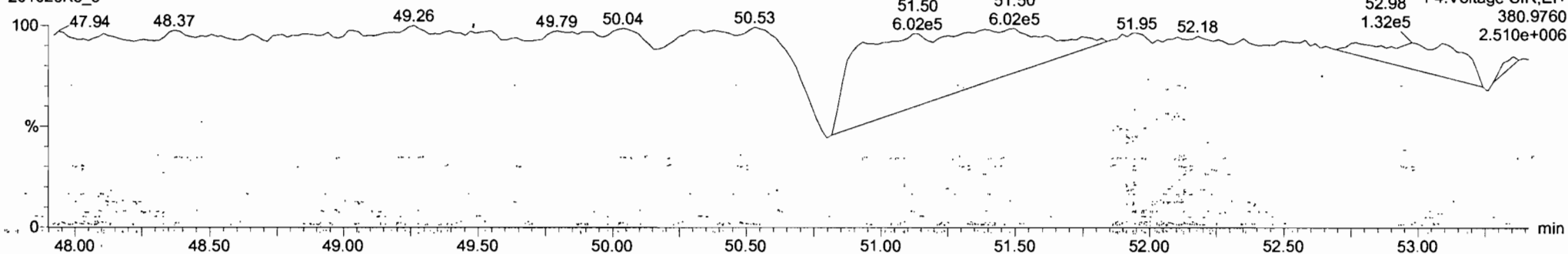


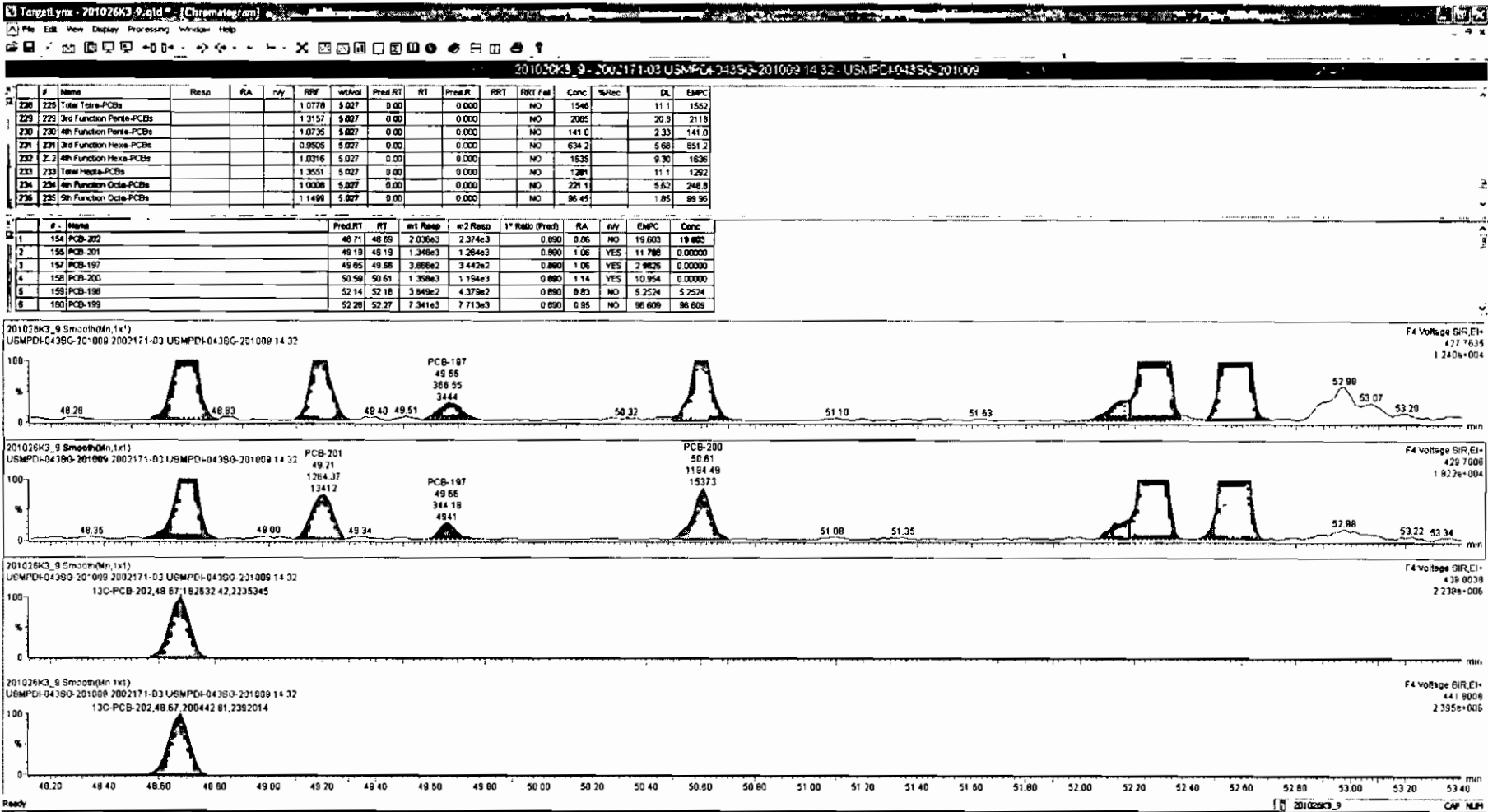
201026K3\_9



**PFK4d**

201026K3\_9



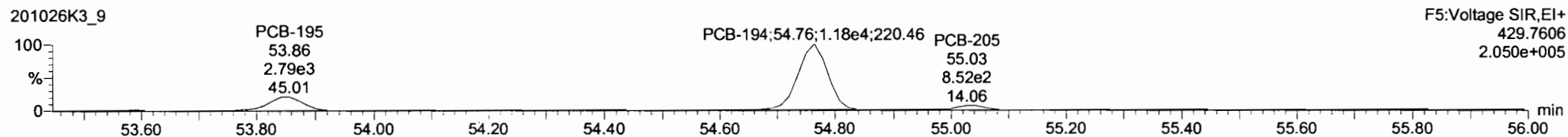
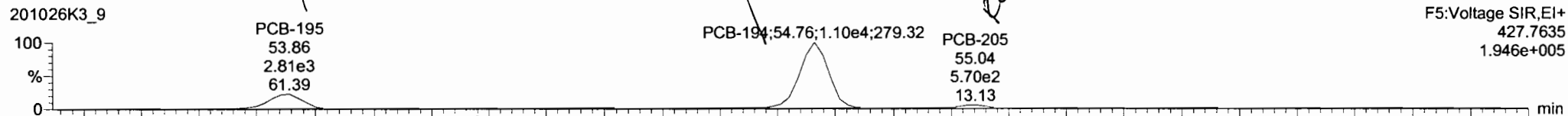


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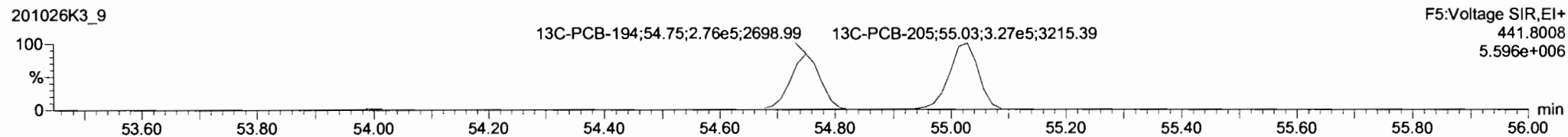
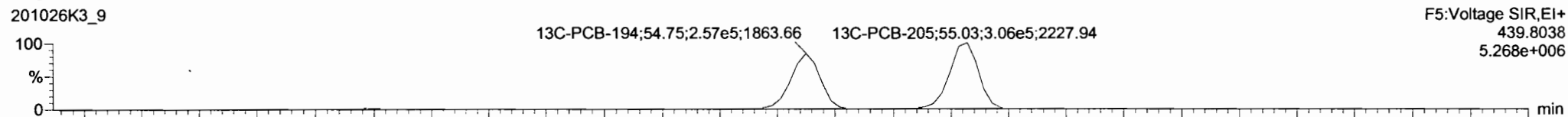
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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

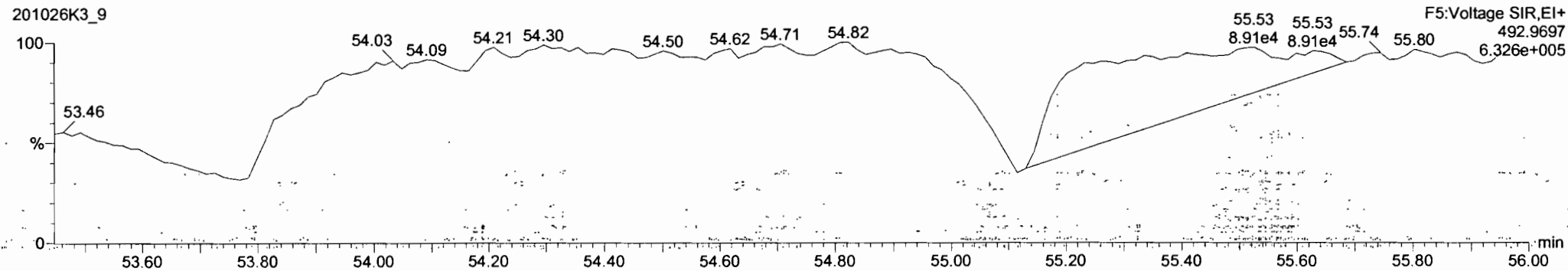
**PCB-195**



**13C-PCB-194**

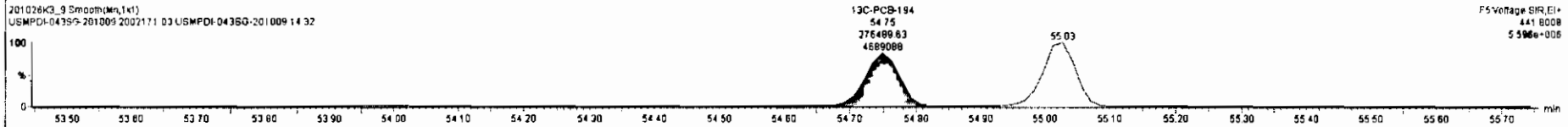
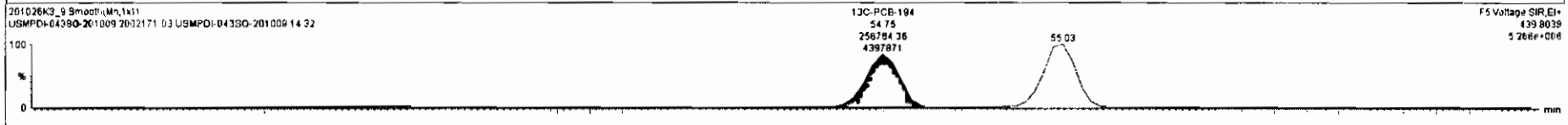
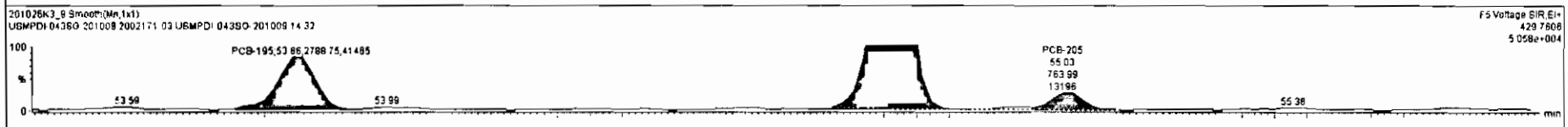
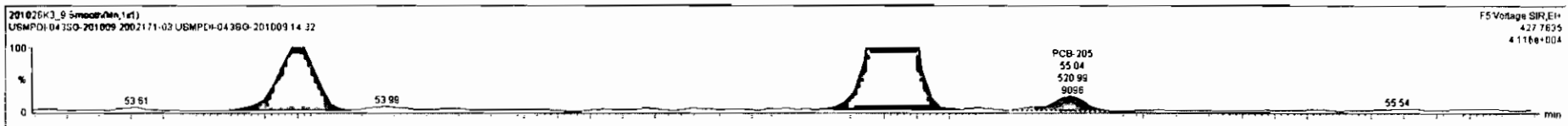


**PFK5a**



#	Name	Resp	RA	nly	RF	m1	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.027	0.00		0.000		NO	1545		11.1	1552
229	229 3rd Function Penta-PCBs				1.3157	5.027	0.00		0.000		NO	2085		20.8	2118
230	230 4th Function Penta-PCBs				1.0735	5.027	0.00		0.000		NO	141.0		2.32	141.0
231	231 3rd Function Hexa-PCBs				0.9505	5.027	0.00		0.000		NO	634.2		5.88	651.2
232	232 4th Function Hexa-PCBs				1.0316	5.027	0.00		0.000		NO	1835		9.30	1836
233	233 Total Hepta-PCBs				1.3551	5.027	0.00		0.000		NO	1281		11.1	1282
234	234 4th Function Octa-PCBs				1.0008	5.027	0.00		0.000		NO	221.1		5.62	246.8
235	235 5th Function Octa-PCBs				1.1499	5.027	0.00		0.000		NO	95.85		1.85	98.88

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1	162 PCB-195	53.86	53.86	2.814e3	2.789e3	0.890	1.01	NO	20.012	20.012
2	163 PCB-194	54.77	54.78	1.102e4	1.191e4	0.890	0.93	NO	76.650	76.650
3	164 PCB-205	55.04	55.04	5.210e2	7.640e2	0.890	0.88	YES	3.2012	0.00000



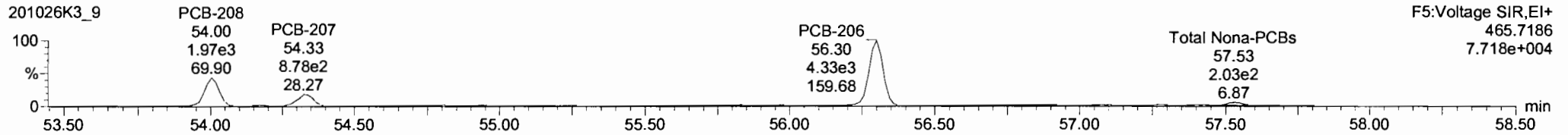
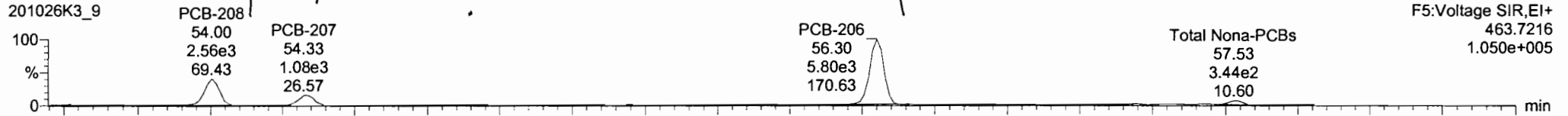
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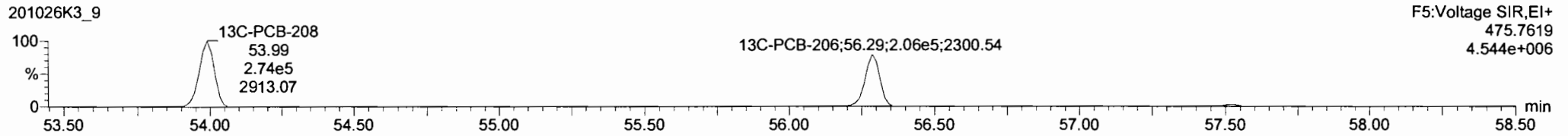
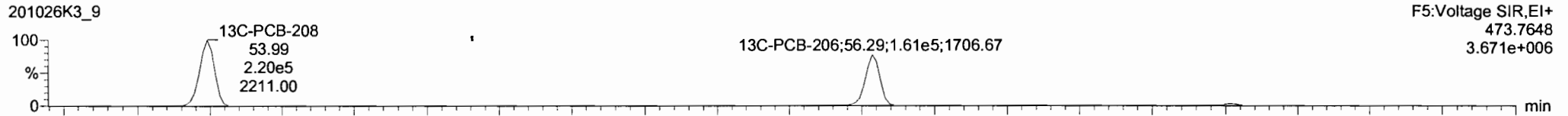
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Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

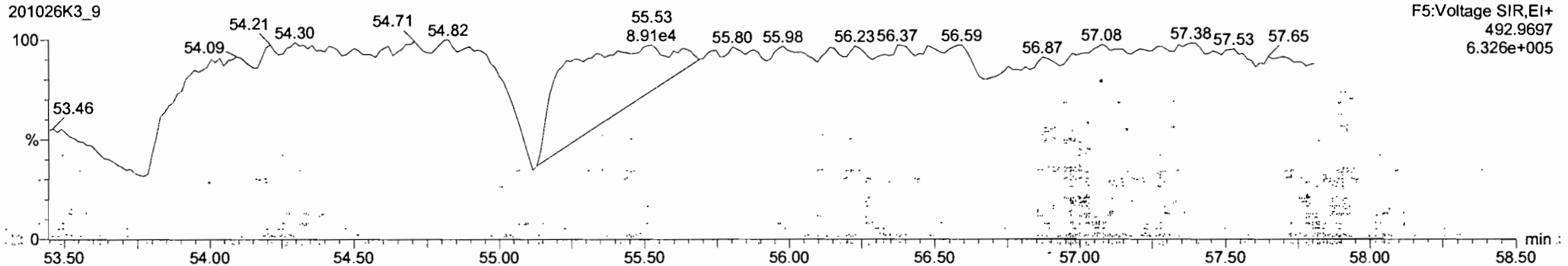
**PCB-208**



**13C-PCB-208**

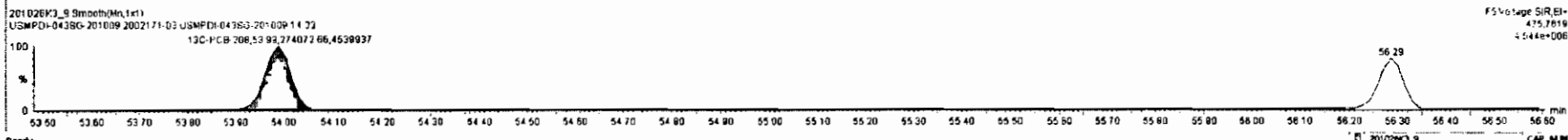
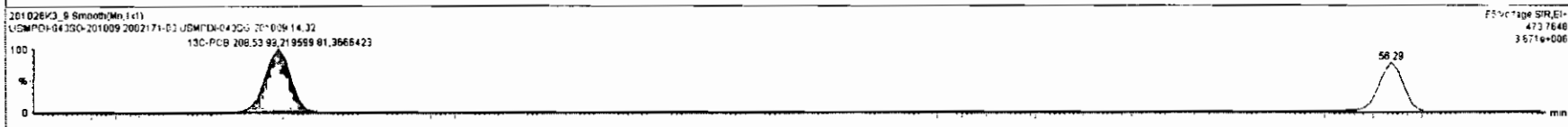
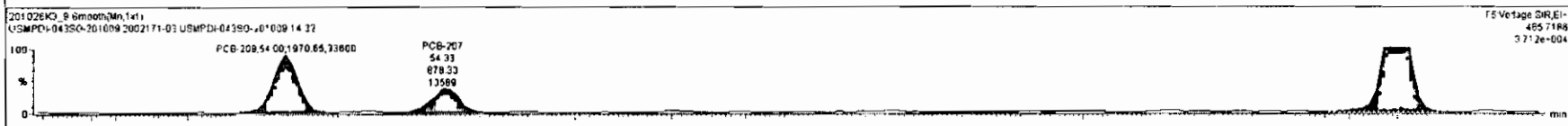
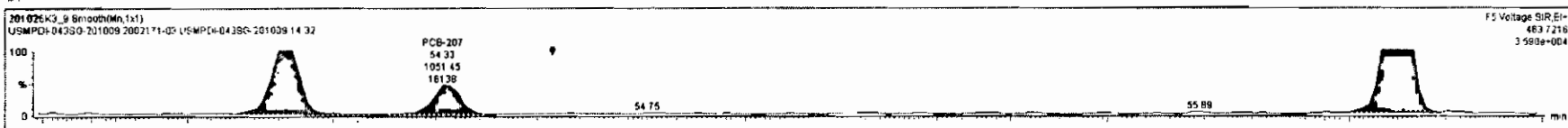


**PFK5**



#	Name	Reten	RA	rvy	RF	Wt/Ret	Prod RT	RT	Prod R	RT	RTI Val	Comp	%Fac	CL	EWPC
228	228 Total Tetra-PCBs				1.0778	5.027	0.00	0.000			NO	1546		11.1	1552
229	229 2nd Function Penta-PCBs				1.7157	5.027	0.00	0.000			NO	2085		20.8	2118
230	230 2nd 4th Function Penta-PCBs				1.8735	5.027	0.00	0.000			NO	141.0		2.33	141.0
231	231 3rd Function Hexa-PCBs				0.8905	5.027	0.00	0.000			NO	634.2		5.88	651.2
232	232 2nd 4th Function Hexa-PCBs				1.8218	5.027	0.00	0.000			NO	1835		9.30	1836
233	233 Total Hepta-PCBs				1.3861	5.027	0.00	0.000			NO	1281		11.1	1292
234	234 4th Function Octa-PCBs				1.0008	5.027	0.00	0.000			NO	221.1		5.62	248.8
235	235 5th Function Octa-PCBs				1.1489	5.027	0.00	0.000			NO	66.68		1.85	96.86

#	Name	Prod RT	RT	wt Resp	w2 Resp	1st Ratio (Prod)	RA	rvy	EWPC	Comp
1	189 PCB-208	54.01	54.00	2.518e3	1.971e3	1.340	1.28	NO	19.387	19.387
2	186 PCB-207	54.33	54.33	1.051e3	8.713e2	1.340	1.20	NO	8.4870	8.4870
3	187 PCB-206	56.30	56.30	5.88e3	4.317e3	1.340	1.37	NO	54.794	54.794



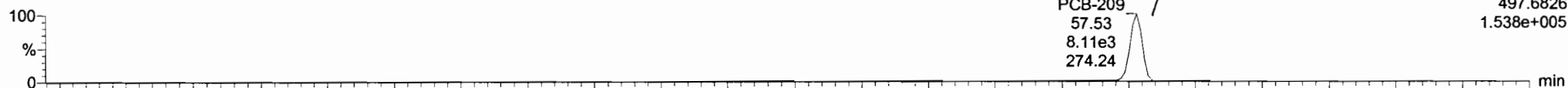
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Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_9, Date: 27-Oct-2020, Time: 18:59:41, ID: 2002171-03 USMPDI-043SG-201009 14.32, Description: USMPDI-043SG-201009

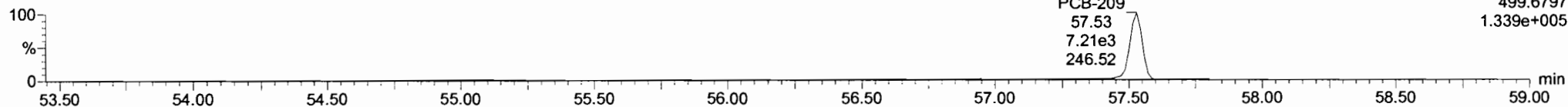
**PCB-209**

201026K3\_9



F5:Voltage SIR,EI+  
497.6826  
1.538e+005

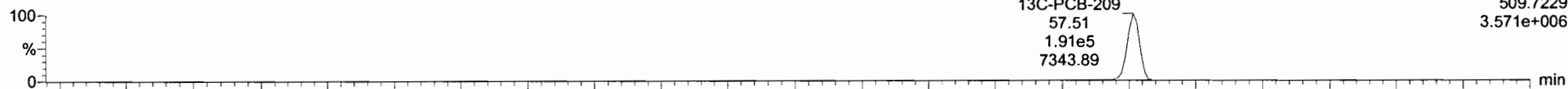
201026K3\_9



F5:Voltage SIR,EI+  
499.6797  
1.339e+005

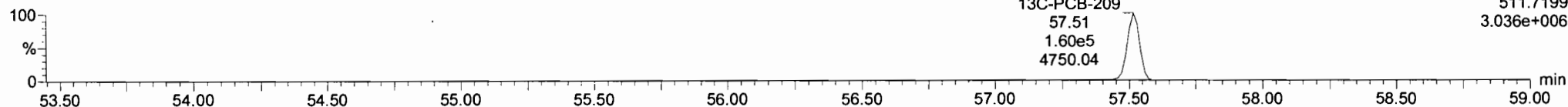
**13C-PCB-209**

201026K3\_9



F5:Voltage SIR,EI+  
509.7229  
3.571e+006

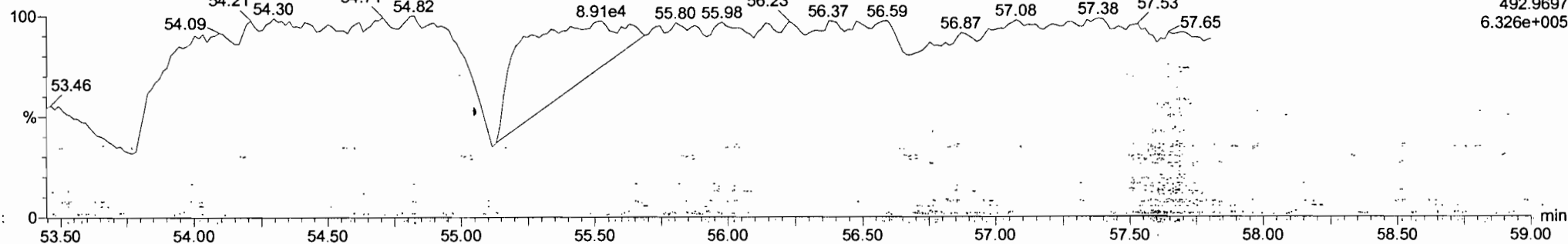
201026K3\_9



F5:Voltage SIR,EI+  
511.7199  
3.036e+006

**PFK5b**

201026K3\_9



F5:Voltage SIR,EI+  
492.9697  
6.326e+005

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-10B.qld

Last Altered: Friday, November 13, 2020 9:28:59 AM Pacific Standard Time  
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*HC for DF C711/13/2020*  
*11.13.2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	6.18e3	3.07	NO	1.17	5.080	15.61	15.61	1.001	1.001	NO	8.416		0.267	8.416
2	2 PCB-2	1.01e4	2.85	NO	1.18	5.080	18.03	18.03	0.988	0.988	NO	12.87		0.261	12.87
3	3 PCB-3	6.83e3	3.23	NO	1.15	5.080	18.26	18.26	1.001	1.001	NO	8.919		0.268	8.919
4	4 PCB-4/10	1.75e4	1.59	NO	1.25	5.080	19.68	19.62	1.004	1.001	NO	23.87		0.575	23.87
5	5 PCB-7/9	4.68e3	1.48	NO	0.960	5.080	21.48	21.45	1.003	1.001	NO	5.058		0.464	5.058
6	6 PCB-6	1.13e4	1.45	NO	1.02	5.080	22.13	22.14	1.033	1.033	NO	11.46		0.435	11.46
7	7 PCB-5/8	4.83e4	1.58	NO	0.992	5.080	22.54	22.53	1.052	1.052	NO	50.50		0.449	50.50
8	8 PCB-14			NO	1.02	5.080	23.68		0.951		YES			0.510	
9	9 PCB-11	7.08e4	1.55	NO	1.13	5.080	24.91	24.92	1.001	1.001	NO	69.68		0.460	69.68
10	10 PCB-12/13	9.72e3	1.44	NO	1.03	5.080	25.34	25.28	1.018	1.016	NO	10.49		0.505	10.49
11	11 PCB-15	5.57e4	1.55	NO	1.03	5.080	25.63	25.62	1.030	1.029	NO	59.66		0.501	59.66
12	12 PCB-19	9.87e3	1.01	NO	1.11	5.080	23.87	23.86	1.001	1.001	NO	25.39		0.715	25.39
13	13 PCB-30			NO	1.79	5.080	24.77		1.039		YES			0.441	
14	14 PCB-18	4.02e4	1.05	NO	0.818	5.080	25.53	25.55	0.952	0.952	NO	82.43		0.581	82.43
15	15 PCB-17	2.08e4	1.03	NO	0.758	5.080	25.72	25.72	0.959	0.959	NO	45.97		0.626	45.97
16	16 PCB-24/27	5.95e3	1.00	NO	1.08	5.080	26.32	26.29	0.981	0.980	NO	9.227		0.439	9.227
17	17 PCB-16/32	3.34e4	1.03	NO	0.925	5.080	26.85	26.85	1.001	1.001	NO	60.56		0.513	60.56
18	18 PCB-34	1.95e3	1.28	YES	0.945	5.080	27.66	27.66	0.959	0.959	NO	2.072		0.570	1.853
19	19 PCB-23			NO	0.883	5.080	27.75		0.962		YES			0.610	
20	20 PCB-29			NO	0.893	5.080	28.01		0.971		YES			0.603	
21	21 PCB-26	3.21e4	1.02	NO	0.944	5.080	28.24	28.24	0.979	0.979	NO	34.10		0.571	34.10
22	22 PCB-25	2.02e4	1.08	NO	0.950	5.080	28.39	28.40	0.984	0.985	NO	21.29		0.567	21.29
23	23 PCB-31	1.60e5	1.05	NO	1.04	5.080	28.77	28.76	0.997	0.997	NO	154.3		0.520	154.3
24	24 PCB-28	1.95e5	1.07	NO	1.03	5.080	28.87	28.87	1.001	1.001	NO	191.0		0.526	191.0
25	25 PCB-20/21/33	8.69e4	1.08	NO	0.941	5.080	29.51	29.52	1.023	1.023	NO	92.47		0.572	92.47
26	26 PCB-22	5.41e4	1.06	NO	0.973	5.080	29.95	29.97	1.038	1.039	NO	55.76		0.554	55.76
27	27 PCB-36			NO	1.08	5.080	30.67		0.931		YES			0.518	
28	28 PCB-39			NO	0.988	5.080	31.17		0.947		YES			0.564	
29	29 PCB-38	4.39e3	0.85	YES	1.05	5.080	31.95	31.90	0.970	0.969	NO	4.444		0.520	4.000
30	30 PCB-35	4.30e3	1.45	YES	1.04	5.080	32.50	32.48	0.987	0.986	NO	4.385		0.534	3.656
31	31 PCB-37	6.70e4	1.12	NO	1.01	5.080	32.94	32.94	1.001	1.001	NO	70.74		0.552	70.74
32	32 PCB-54	3.50e3	0.78	NO	1.08	5.080	27.70	27.70	1.001	1.001	NO	5.892		0.292	5.892



Dataset: U:\VG11.PRO\Results\201026K3\201026K3-10B.qld

Last Altered: Friday, November 13, 2020 9:28:59 AM Pacific Standard Time  
Printed: Friday, November 13, 2020 9:30:58 AM Pacific Standard Time

Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	7.21e2	0.85	NO	0.880	5.080	28.91	28.92	1.044	1.045	NO	1.489		0.358	1.489
34	34 PCB-53	2.27e4	0.79	NO	0.997	5.080	29.58	29.58	0.944	0.944	NO	48.84		0.394	48.84
35	35 PCB-51	1.78e4	0.79	NO	1.07	5.080	29.93	29.93	0.955	0.955	NO	35.77		0.369	35.77
36	36 PCB-45	1.27e4	0.81	NO	0.858	5.080	30.38	30.38	0.969	0.969	NO	31.67		0.458	31.67
37	37 PCB-46	5.66e3	0.92	YES	0.831	5.080	30.88	30.88	0.985	0.985	NO	14.89		0.473	13.42
38	38 PCB-52/69	1.84e5	0.80	NO	1.17	5.080	31.38	31.36	1.001	1.001	NO	338.5		0.337	338.5
39	39 PCB-73	2.38e3	0.96	YES	1.44	5.080	31.49	31.45	1.005	1.004	NO	3.524		0.272	3.178
40	40 PCB-43/49	1.34e5	0.81	NO	1.02	5.080	31.67	31.68	1.010	1.011	NO	281.3		0.387	281.3
41	41 PCB-47	7.97e4	0.82	NO	0.922	5.080	31.90	31.90	1.001	1.001	NO	171.1		0.414	171.1
42	42 PCB-48/75	2.58e4	0.81	NO	1.12	5.080	32.01	32.03	1.004	1.005	NO	45.62		0.341	45.62
43	43 PCB-65			NO	1.28	5.080	32.29		1.013		YES			0.298	
44	44 PCB-62			NO	1.13	5.080	32.38		1.016		YES			0.339	
45	45 PCB-44	1.00e5	0.80	NO	0.824	5.080	32.72	32.78	1.026	1.028	NO	240.3		0.463	240.3
46	46 PCB-42/59	4.31e4	0.76	NO	1.05	5.080	32.94	33.00	1.033	1.035	NO	81.22		0.364	81.22
47	47 PCB-41/64/71/72	1.23e5	0.79	NO	1.19	5.080	33.56	33.56	1.053	1.053	NO	204.8		0.322	204.8
48	48 PCB-68	1.82e3	0.74	NO	1.28	5.080	33.82	33.82	1.061	1.061	NO	2.819		0.299	2.819
49	49 PCB-40	1.44e4	0.81	NO	0.602	5.080	34.04	34.02	1.067	1.067	NO	47.47		0.634	47.47
50	50 PCB-57	1.59e3	0.79	NO	1.16	5.080	34.40	34.41	0.969	0.970	NO	2.236		0.252	2.236
51	51 PCB-67	5.75e3	0.76	NO	1.08	5.080	34.71	34.73	0.978	0.979	NO	8.702		0.270	8.702
52	52 PCB-58	1.47e3	0.69	NO	1.20	5.080	34.84	34.84	0.982	0.982	NO	2.007		0.243	2.007
53	53 PCB-63	9.75e3	0.79	NO	1.07	5.080	34.99	35.01	0.986	0.986	NO	14.91		0.273	14.91
54	54 PCB-74	1.00e5	0.79	NO	1.19	5.080	35.29	35.31	0.994	0.995	NO	139.0		0.247	139.0
55	55 PCB-61/70	2.55e5	0.82	NO	1.05	5.080	35.51	35.51	1.000	1.001	NO	397.1		0.278	397.1
56	56 PCB-76/66	2.26e5	0.81	NO	1.16	5.080	35.70	35.74	1.006	1.007	NO	317.9		0.251	317.9
57	57 PCB-80			NO	1.19	5.080	35.97		1.001		YES			0.232	
58	58 PCB-55	2.83e3	0.75	NO	1.17	5.080	36.30	36.26	1.010	1.009	NO	3.742		0.236	3.742
59	59 PCB-56/60	1.22e5	0.79	NO	1.02	5.080	36.79	36.78	1.024	1.023	NO	185.7		0.271	185.7
60	60 PCB-79	5.50e3	0.87	NO	1.14	5.080	37.92	37.91	1.055	1.055	NO	7.470		0.242	7.470
61	61 PCB-78	1.00e3	1.17	YES	1.14	5.080	38.62	38.56	0.987	0.985	NO	1.447		0.269	1.178
62	62 PCB-81	1.44e3	0.79	NO	1.05	5.080	39.16	39.18	1.000	1.001	NO	2.257		0.292	2.257
63	63 PCB-77	2.43e4	0.83	NO	1.14	5.080	39.77	39.77	1.000	1.000	NO	35.93		0.274	35.93
64	64 PCB-104		0.00	YES	1.12	5.080	32.63		1.001		NO			0.333	
65	65 PCB-96	1.81e3	1.97	YES	1.15	5.080	33.94	33.85	1.041	1.038	NO	4.758		0.324	4.097
66	66 PCB-103	4.77e3	1.71	NO	0.936	5.080	34.49	34.41	1.058	1.055	NO	15.43		0.399	15.43
67	67 PCB-100	4.63e3	1.55	NO	0.954	5.080	34.87	34.79	1.069	1.067	NO	14.73		0.392	14.73
68	68 PCB-94	1.57e3	1.70	NO	0.949	5.080	35.29	35.27	0.985	0.985	NO	5.837		0.401	5.837

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-10B.qld

Last Altered: Friday, November 13, 2020 9:28:59 AM Pacific Standard Time

Printed: Friday, November 13, 2020 9:30:58 AM Pacific Standard Time

Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	1.35e5	1.60	NO	1.20	5.080	35.76	35.83	0.999	1.001	NO	395.4		0.316	395.4
70	70 PCB-93			NO	0.935	5.080	35.91		1.003		YES			0.407	
71	71 PCB-88/91	2.77e4	1.56	NO	1.06	5.080	36.24	36.24	1.012	1.012	NO	91.70		0.358	91.70
72	72 PCB-121			NO	1.71	5.080	36.35		1.015		YES			0.223	
73	73 PCB-84/92	7.16e4	1.60	NO	1.02	5.080	37.17	37.17	0.990	0.990	NO	242.0		0.363	242.0
74	74 PCB-89	1.81e3	1.96	YES	1.11	5.080	37.36	37.35	0.995	0.995	NO	5.623		0.335	4.864
75	75 PCB-90/101	2.05e5	1.63	NO	1.12	5.080	37.55	37.58	1.000	1.001	NO	627.7		0.329	627.7
76	76 PCB-113	1.22e3	1.81	YES	1.51	5.080	37.80	37.82	1.007	1.007	NO	2.781		0.244	2.529
77	77 PCB-99	9.90e4	1.61	NO	1.32	5.080	37.90	37.91	1.010	1.010	NO	257.6		0.280	257.6
78	78 PCB-119	9.55e3	1.66	NO	1.81	5.080	38.38	38.38	0.987	0.987	NO	21.10		0.244	21.10
79	79 PCB-108/112	8.61e3	1.62	NO	1.44	5.080	38.53	38.56	0.991	0.992	NO	23.77		0.304	23.77
80	80 PCB-83			NO	1.83	5.080	38.71		0.996		YES			0.240	
81	81 PCB-97	4.63e4	1.56	NO	1.28	5.080	38.90	38.92	1.000	1.001	NO	144.2		0.343	144.2
82	82 PCB-86	6.13e2	1.03	YES	1.12	5.080	39.07	39.10	1.005	1.006	NO	2.190		0.394	1.823
83	83 PCB-87/117/125	6.22e4	1.58	NO	1.56	5.080	39.19	39.20	1.008	1.008	NO	159.1		0.282	159.1
84	84 PCB-111/115	3.20e3	1.65	NO	1.91	5.080	39.35	39.36	1.012	1.012	NO	6.676		0.230	6.676
85	85 PCB-85/116	2.77e4	1.59	NO	1.41	5.080	39.47	39.47	1.015	1.015	NO	78.33		0.312	78.33
86	86 PCB-120	1.35e3	1.24	YES	2.01	5.080	39.74	39.77	1.022	1.023	NO	2.678		0.219	2.433
87	87 PCB-110	2.40e5	1.61	NO	1.74	5.080	39.89	39.88	1.026	1.026	NO	548.7		0.252	548.7
88	88 PCB-82	1.48e4	1.55	NO	0.781	5.080	40.52	40.52	0.975	0.975	NO	56.54		0.411	56.54
89	89 PCB-124	8.08e3	1.59	NO	1.40	5.080	41.23	41.24	0.993	0.993	NO	17.28		0.230	17.28
90	90 PCB-107/109	1.77e4	1.56	NO	1.34	5.080	41.37	41.41	0.996	0.997	NO	39.42		0.239	39.42
91	91 PCB-123	2.97e3	1.52	NO	1.20	5.080	41.56	41.56	1.000	1.000	NO	7.404		0.268	7.404
92	92 PCB-106/118	2.06e5	1.62	NO	1.22	5.080	41.76	41.75	1.001	1.000	NO	488.0		0.254	488.0
93	93 PCB-114	7.95e3	1.81	YES	1.14	5.080	42.43	42.42	1.000	1.000	NO	9.985		0.410	9.088
94	94 PCB-122	3.59e3	1.44	NO	0.944	5.080	42.57	42.58	1.004	1.004	NO	5.440		0.496	5.440
95	95 PCB-105	1.30e5	1.55	NO	1.05	5.080	43.31	43.31	1.000	1.000	NO	181.4		0.455	181.4
96	96 PCB-127			NO	1.06	5.080	43.67		1.000		YES			0.432	
97	97 PCB-126	2.10e3	1.66	NO	1.17	5.080	45.62	45.63	1.000	1.000	NO	2.828		0.459	2.828
98	98 PCB-155	2.07e2	1.74	YES	1.04	5.080	37.09	37.11	1.000	1.001	NO	0.9609		0.317	0.7616
99	99 PCB-150	8.33e2	1.14	NO	1.08	5.080	38.40	38.40	1.036	1.036	NO	3.599		0.305	3.599
100	1... PCB-152	2.04e2	1.81	YES	1.19	5.080	38.88	38.88	1.049	1.049	NO	0.8068		0.279	0.6429
101	1... PCB-145			NO	1.19	5.080	39.35		1.061		YES			0.278	
102	1... PCB-136	2.24e4	1.30	NO	1.02	5.080	39.68	39.68	1.070	1.070	NO	102.6		0.324	102.6
103	1... PCB-148	6.14e2	1.65	YES	0.842	5.080	39.79	39.79	1.073	1.073	NO	3.418		0.383	2.887
104	1... PCB-154	3.57e3	1.20	NO	0.919	5.080	40.30	40.29	1.087	1.087	NO	18.19		0.360	18.19

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Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	3.10e4	1.29	NO	0.787	5.080	40.97	40.96	1.105	1.105	NO	184.7		0.420	184.7
106	1... PCB-135	1.81e4	1.24	NO	0.922	5.080	41.19	41.19	1.111	1.111	NO	91.89		0.358	91.89
107	1... PCB-144	5.02e3	1.28	NO	0.789	5.080	41.30	41.30	1.114	1.114	NO	29.79		0.419	29.79
108	1... PCB-147	3.06e3	1.40	NO	0.834	5.080	41.43	41.43	1.117	1.117	NO	17.20		0.396	17.20
109	1... PCB-139/149	1.07e5	1.28	NO	0.948	5.080	41.72	41.69	1.125	1.124	NO	528.8		0.349	528.8
110	1... PCB-140	1.23e3	1.50	YES	0.794	5.080	41.90	41.88	1.130	1.129	NO	7.294		0.416	6.521
111	1... PCB-134/143	1.37e4	1.44	YES	0.759	5.080	42.34	42.37	0.974	0.975	NO	37.63		0.539	34.73
112	1... PCB-131/133	9.59e3	1.23	NO	0.821	5.080	42.67	42.65	0.982	0.981	NO	24.50		0.499	24.50
113	1... PCB-142	2.80e2	0.73	YES	0.754	5.080	42.83	42.84	0.985	0.986	NO	0.7776		0.543	0.5940
114	1... PCB-146/165	6.60e4	1.26	NO	1.02	5.080	43.07	43.07	0.991	0.991	NO	136.2		0.403	136.2
115	1... PCB-132/161	8.72e4	1.25	NO	1.02	5.080	43.31	43.33	0.997	0.997	NO	178.5		0.400	178.5
116	1... PCB-153	3.79e5	1.26	NO	1.07	5.080	43.48	43.48	1.000	1.000	NO	742.2		0.382	742.2
117	1... PCB-168			NO	1.08	5.080	43.71		1.006		YES			0.380	
118	1... PCB-141	5.65e4	1.30	NO	1.03	5.080	44.24	44.24	1.000	1.000	NO	143.1		0.500	143.1
119	1... PCB-137	9.12e3	1.18	NO	1.11	5.080	44.63	44.64	1.009	1.009	NO	21.35		0.462	21.35
120	1... PCB-130	1.65e4	1.24	NO	0.885	5.080	44.73	44.75	1.012	1.012	NO	48.42		0.580	48.42
121	1... PCB-138/163/164	3.74e5	1.27	NO	1.28	5.080	45.13	45.13	1.001	1.001	NO	728.5		0.390	728.5
122	1... PCB-158/160	3.39e4	1.27	NO	1.24	5.080	45.40	45.36	1.007	1.006	NO	68.36		0.404	68.36
123	1... PCB-129	7.58e3	1.22	NO	0.867	5.080	45.63	45.63	1.012	1.012	NO	21.88		0.578	21.88
124	1... PCB-166	1.13e3	1.59	YES	1.14	5.080	46.10	46.10	0.993	0.993	NO	2.104		0.374	1.817
125	1... PCB-159			NO	1.22	5.080	46.45		1.001		YES			0.351	
126	1... PCB-128/162	4.19e4	1.27	NO	0.907	5.080	46.73	46.72	1.007	1.007	NO	98.27		0.471	98.27
127	1... PCB-167	1.27e4	1.24	NO	1.11	5.080	47.14	47.14	1.000	1.000	NO	23.59		0.382	23.59
128	1... PCB-156	3.23e4	1.31	NO	1.13	5.080	48.47	48.49	1.000	1.001	NO	62.54		0.395	62.54
129	1... PCB-157	6.08e3	1.46	YES	1.04	5.080	48.75	48.75	1.000	1.000	NO	12.66		0.427	11.71
130	1... PCB-169			NO	1.16	5.080	51.05		1.000		YES			0.427	
131	1... PCB-188	4.00e2	1.27	YES	1.29	5.080	43.12	43.09	1.001	1.000	NO	0.9829		0.361	0.8589
132	1... PCB-184			NO	1.23	5.080	43.58		1.011		YES			0.378	
133	1... PCB-179	4.58e4	1.07	NO	1.30	5.080	44.38	44.36	1.030	1.029	NO	108.4		0.359	108.4
134	1... PCB-176	1.25e4	1.13	NO	1.31	5.080	44.87	44.85	1.041	1.041	NO	29.44		0.356	29.44
135	1... PCB-186			NO	1.33	5.080	45.49		1.056		YES			0.350	
136	1... PCB-178	1.60e4	1.06	NO	0.943	5.080	46.01	45.99	1.068	1.067	NO	52.16		0.494	52.16
137	1... PCB-175	2.47e3	1.05	NO	0.956	5.080	46.37	46.35	1.076	1.076	NO	7.927		0.487	7.927
138	1... PCB-182/187	1.03e5	1.03	NO	1.07	5.080	46.54	46.50	1.080	1.079	NO	296.4		0.437	296.4
139	1... PCB-183	4.21e4	1.07	NO	1.02	5.080	46.86	46.86	1.088	1.087	NO	126.4		0.455	126.4
140	1... PCB-185	7.95e3	1.04	NO	1.41	5.080	47.53	47.52	0.955	0.954	NO	25.71		0.501	25.71

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Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	7.07e4	1.08	NO	1.35	5.080	47.91	47.90	0.962	0.962	NO	237.3		0.520	237.3
142	1... PCB-181	1.27e3	1.14	NO	1.47	5.080	48.02	47.99	0.964	0.964	NO	3.930		0.477	3.930
143	1... PCB-177	4.15e4	0.97	NO	1.28	5.080	48.20	48.18	0.968	0.968	NO	147.6		0.551	147.6
144	1... PCB-171	1.74e4	1.14	NO	1.32	5.080	48.50	48.49	0.974	0.974	NO	60.11		0.535	60.11
145	1... PCB-173	1.24e3	1.11	NO	1.19	5.080	48.93	48.92	0.983	0.983	NO	4.719		0.591	4.719
146	1... PCB-172	1.05e4	1.17	NO	1.38	5.080	49.39	49.40	0.992	0.992	NO	34.60		0.512	34.60
147	1... PCB-192			NO	1.83	5.080	49.60		0.996		YES			0.385	
148	1... PCB-180	1.63e5	1.05	NO	1.41	5.080	49.81	49.81	1.000	1.000	NO	526.5		0.498	526.5
149	1... PCB-193	1.05e4	1.06	NO	1.68	5.080	50.03	50.02	1.005	1.005	NO	28.58		0.420	28.58
150	1... PCB-191	3.00e3	1.02	NO	1.71	5.080	50.29	50.28	1.010	1.010	NO	7.965		0.411	7.965
151	1... PCB-170	5.78e4	1.08	NO	1.40	5.080	51.46	51.46	1.000	1.000	NO	218.4		0.564	218.4
152	1... PCB-190	1.62e4	1.07	NO	1.85	5.080	51.67	51.67	1.005	1.004	NO	46.35		0.427	46.35
153	1... PCB-189	2.77e3	1.32	YES	1.45	5.080	53.17	53.17	1.000	1.000	NO	8.106		0.382	7.152
154	1... PCB-202	6.78e3	0.95	NO	1.17	5.080	48.71	48.69	1.001	1.000	NO	26.02		0.427	26.02
155	1... PCB-201	4.02e3	0.88	NO	1.05	5.080	49.19	49.19	1.010	1.011	NO	17.12		0.474	17.12
156	1... PCB-204			NO	1.14	5.080	49.34		1.014		YES			0.437	
157	1... PCB-197	1.18e3	1.19	YES	1.13	5.080	49.65	49.68	1.020	1.021	NO	4.655		0.440	4.018
158	1... PCB-200	4.01e3	0.97	NO	1.07	5.080	50.59	50.59	1.039	1.039	NO	16.79		0.466	16.79
159	1... PCB-198	1.23e3	0.91	NO	0.794	5.080	52.14	52.14	1.071	1.071	NO	6.950		0.628	6.950
160	1... PCB-199	2.49e4	0.87	NO	0.809	5.080	52.28	52.28	1.074	1.074	NO	138.2		0.616	138.2
161	1... PCB-196/203	2.71e4	0.87	NO	0.838	5.080	52.57	52.58	1.080	1.080	NO	145.0		0.595	145.0
162	1... PCB-195	1.23e4	0.88	NO	1.04	5.080	53.86	53.86	0.984	0.964	NO	39.28		0.577	39.28
183	1... PCB-194	3.71e4	0.90	NO	1.12	5.080	54.77	54.76	1.000	1.000	NO	110.3		0.540	110.3
164	1... PCB-205	1.90e3	0.97	NO	1.29	5.080	55.04	55.03	1.005	1.005	NO	4.895		0.467	4.895
165	1... PCB-208	9.99e3	1.42	NO	0.933	5.080	54.01	54.00	1.000	1.000	NO	35.32		0.554	35.32
166	1... PCB-207	3.61e3	1.43	NO	0.916	5.080	54.33	54.33	1.006	1.006	NO	13.00		0.565	13.00
167	1... PCB-206	2.46e4	1.32	NO	1.01	5.080	56.30	56.30	1.000	1.000	NO	113.0		0.696	113.0
166	1... PCB-209	3.16e4	1.17	NO	0.986	5.080	57.51	57.53	1.000	1.000	NO	161.0		0.453	161.0
169	1... 13C-PCB-1	1.24e6	3.16	NO	0.893	5.080	15.59	15.60	0.609	0.609	NO	1142	58.0	1.21	
170	1... 13C-PCB-3	1.31e6	3.24	NO	0.911	5.080	18.24	18.25	0.712	0.713	NO	1188	60.4	1.19	
171	1... 13C-PCB-4	1.15e6	1.62	NO	0.600	5.080	19.61	19.60	0.766	0.765	NO	1587	80.6	0.670	
172	1... 13C-PCB-9	1.90e6	1.62	NO	0.970	5.080	21.42	21.42	0.837	0.837	NO	1614	82.0	0.415	
173	1... 13C-PCB-11	1.78e6	1.62	NO	0.962	5.080	24.88	24.89	0.972	0.972	NO	1524	77.4	0.418	
174	1... 13C-PCB-19	6.92e5	1.07	NO	0.499	5.080	23.84	23.84	0.931	0.931	NO	1144	58.1	4.44	
175	1... 13C-PCB-32	1.17e6	1.06	NO	0.744	5.080	28.83	28.83	1.048	1.048	NO	1300	66.1	2.98	
176	1... 13C-PCB-28	1.96e6	1.08	NO	1.06	5.080	28.85	28.85	1.004	1.004	NO	1752	89.0	3.69	

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Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	1.85e6	1.12	NO	0.989	5.080	32.84	32.92	1.143	1.146	NO	1773	90.1	3.97	
178	1... 13C-PCB-54	1.08e6	0.81	NO	0.999	5.080	27.68	27.68	0.753	0.753	NO	1546	78.5	1.21	
179	1... 13C-PCB-52	9.20e5	0.80	NO	0.804	5.080	31.35	31.34	0.853	0.852	NO	1631	82.9	1.51	
180	1... 13C-PCB-47	9.95e5	0.83	NO	0.857	5.080	31.88	31.88	0.867	0.867	NO	1655	84.1	1.42	
181	1... 13C-PCB-70	1.20e6	0.85	NO	0.996	5.080	35.50	35.49	0.965	0.965	NO	1719	87.3	1.22	
182	1... 13C-PCB-80	1.27e6	0.84	NO	1.03	5.080	35.94	35.94	0.977	0.977	NO	1765	89.7	1.18	
183	1... 13C-PCB-81	1.20e6	0.83	NO	0.988	5.080	39.14	39.14	1.064	1.064	NO	1736	88.2	1.23	
184	1... 13C-PCB-77	1.17e6	0.84	NO	0.969	5.080	39.76	39.76	1.081	1.081	NO	1724	87.6	1.25	
185	1... 13C-PCB-104	6.50e5	1.68	NO	1.02	5.080	32.52	32.61	0.827	0.829	NO	1602	81.4	0.732	
186	1... 13C-PCB-95	5.59e5	1.66	NO	0.805	5.080	35.78	35.81	0.910	0.910	NO	1740	88.4	0.924	
187	1... 13C-PCB-101	5.73e5	1.59	NO	0.793	5.080	37.54	37.54	0.954	0.954	NO	1811	92.0	0.938	
188	1... 13C-PCB-97	4.94e5	1.63	NO	0.696	5.080	38.87	38.88	0.988	0.988	NO	1777	90.2	1.07	
189	1... 13C-PCB-123	6.59e5	1.61	NO	0.933	5.080	41.54	41.54	1.056	1.056	NO	1771	90.0	0.797	
190	1... 13C-PCB-118	6.82e5	1.61	NO	0.966	5.080	41.73	41.73	1.061	1.061	NO	1735	88.2	0.755	
191	1... 13C-PCB-114	1.37e6	1.62	NO	1.55	5.080	42.38	42.40	0.908	0.908	NO	2331	118	1.06	
192	1... 13C-PCB-105	1.35e6	1.63	NO	1.57	5.080	43.30	43.29	0.927	0.927	NO	2245	114	1.04	
193	1... 13C-PCB-127	1.43e6	1.65	NO	1.62	5.080	43.63	43.65	0.935	0.935	NO	2302	117	1.01	
194	1... 13C-PCB-126	1.25e6	1.63	NO	1.57	5.080	45.59	45.61	0.976	0.977	NO	2086	106	1.05	
195	1... 13C-PCB-155	4.20e5	1.31	NO	0.615	5.080	37.07	37.08	0.942	0.942	NO	1715	87.1	0.551	
196	1... 13C-PCB-153	9.38e5	1.25	NO	1.36	5.080	43.44	43.47	0.930	0.931	NO	1804	91.6	1.31	
197	1... 13C-PCB-141	7.58e5	1.30	NO	1.13	5.080	44.23	44.22	0.947	0.947	NO	1762	89.5	1.59	
198	1... 13C-PCB-138	7.87e5	1.30	NO	1.18	5.080	45.08	45.10	0.965	0.966	NO	1742	88.5	1.51	
199	1... 13C-PCB-159	9.26e5	1.27	NO	1.44	5.080	46.42	46.42	0.994	0.994	NO	1687	85.7	1.24	
200	2... 13C-PCB-167	9.57e5	1.32	NO	1.44	5.080	47.12	47.12	1.009	1.009	NO	1743	88.5	1.24	
201	2... 13C-PCB-156	9.03e5	1.28	NO	1.40	5.080	48.45	48.45	1.038	1.038	NO	1696	86.1	1.28	
202	2... 13C-PCB-157	8.97e5	1.33	NO	1.40	5.080	48.74	48.73	1.044	1.044	NO	1685	85.6	1.28	
203	2... 13C-PCB-169	8.59e5	1.28	NO	1.33	5.080	51.01	51.03	1.093	1.093	NO	1694	86.0	1.34	
204	2... 13C-PCB-188	6.41e5	0.46	NO	1.41	5.080	43.06	43.09	0.926	0.926	NO	1777	90.3	0.836	
205	2... 13C-PCB-180	4.33e5	0.46	NO	0.929	5.080	49.78	49.79	1.070	1.070	NO	1822	92.5	1.27	
206	2... 13C-PCB-170	3.72e5	0.45	NO	0.794	5.080	51.44	51.44	1.106	1.106	NO	1829	92.9	1.48	
207	2... 13C-PCB-189	4.63e5	0.45	NO	1.04	5.080	53.15	53.15	1.143	1.143	NO	1732	88.0	1.13	
208	2... 13C-PCB-202	4.39e5	0.92	NO	1.04	5.080	48.68	48.67	1.046	1.046	NO	1657	84.2	0.787	
209	2... 13C-PCB-194	5.92e5	0.93	NO	0.768	5.080	54.75	54.75	0.995	0.995	NO	2034	103	1.91	
210	2... 13C-PCB-208	5.97e5	0.78	NO	0.991	5.080	53.99	53.99	0.981	0.981	NO	1589	80.7	1.23	
211	2... 13C-PCB-206	4.25e5	0.80	NO	0.552	5.080	56.29	56.29	1.023	1.023	NO	2028	103	2.21	
212	2... 13C-PCB-209	3.92e5	1.20	NO	0.396	5.080	57.53	57.51	1.046	1.045	NO	2608	132	0.826	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	2.39e6	1.62	NO	1.00	5.080	25.58	25.60	1.000	0.000	NO	1969	100	0.402	
214	2... 13C-PCB-31	2.08e6	1.11	NO	1.00	5.080	28.72	28.74	1.000	0.000	NO	1969	100	3.92	
215	2... 13C-PCB-60	1.38e6	0.82	NO	1.00	5.080	36.74	36.78	1.000	0.000	NO	1969	100	1.21	
216	2... 13C-PCB-111	7.85e5	1.64	NO	1.00	5.080	39.33	39.35	1.000	0.000	NO	1969	100	0.744	
217	2... 13C-PCB-128	7.50e5	1.33	NO	1.00	5.080	46.67	46.69	1.000	0.000	NO	1969	100	1.79	
218	2... 13C-PCB-182	5.04e5	0.47	NO	1.00	5.080	46.50	46.51	0.000	0.000	NO	1969	100	1.18	
219	2... 13C-PCB-205	7.47e5	0.94	NO	1.00	5.080	55.01	55.03	1.000	0.000	NO	1969	100	1.47	
220	2... 13C-PCB-79	1.34e6	0.83	NO	1.07	5.080	37.88	37.88	1.030	1.030	NO	1782	90.5	1.14	
221	2... 13C-PCB-178	4.22e5	0.47	NO	0.766	5.080	45.97	45.97	0.988	0.988	NO	1446	73.4	1.04	
222	2... 13C-PCB-79	1.34e6	0.83	NO	1.08	5.080	37.87	37.88	0.968	0.968	NO	2020	103	1.34	
223	2... 13C-PCB-178	4.23e5	0.47	NO	1.05	5.080	45.98	45.97	0.923	0.923	NO	1829	92.9	1.36	
224	2... Total Mono-PCBs				1.17	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	2... Total Di-PCBs				1.05	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	2... 2nd Function Tri-PCBs				1.08	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	2... 3rd Function Tri-PCBs				0.983	5.080	0.00		0.000		NO	619.7		7.79	629.2
228	2... Total Tetra-PCBs				1.08	5.080	0.00		0.000		NO	2654		10.4	2671
229	2... 3rd Function Penta-PCBs				1.32	5.080	0.00		0.000		NO	3241		8.93	3257
230	2... 4th Function Penta-PCBs				1.07	5.080	0.00		0.000		NO	189.6		2.25	198.7
231	2... 3rd Function Hexa-PCBs				0.951	5.080	0.00		0.000		NO	976.8		4.61	987.6
232	2... 4th Function Hexa-PCBs				1.03	5.080	0.00		0.000		NO	2297		8.89	2346
233	2... Total Hepta-PCBs				1.36	5.080	0.00		0.000		NO	1962		10.4	1970
234	2... 4th Function Octa-PCBs				1.00	5.080	0.00		0.000		NO	350.1		4.98	354.1
235	2... 5th Function Octa-PCBs				1.15	5.080	0.00		0.000		NO	154.5		1.58	154.5
236	2... Total Nona-PCBs				0.952	5.080	0.00		0.000		NO	161.3		1.81	161.3
237	2... Deca-CB				0.986	5.080	0.00		0.000		NO	161.0		0.453	161.0
238	2... Total PCBs														

Handwritten notes and corrections on the right side of the table:  
 843.3 ✓  
 3438.6 ✓  
 3273.8 ✓  
 504.6 ✓  
 852.8 ✓  
 3455.7 ✓  
 3333.6 ✓  
 508.6 ✓

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-10B.qld

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
 Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

**Total Mono-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-1	15.61	15.61	7.859e4	2.773e4	4.661e3	1.516e3	3.07	NO	6.177e3	8.4158	8.4158	0.267
2 PCB-2	18.03	18.03	1.219e5	4.027e4	7.510e3	2.634e3	2.85	NO	1.014e4	12.866	12.866	0.261
3 PCB-3	18.26	18.26	7.915e4	2.756e4	5.212e3	1.615e3	3.23	NO	6.827e3	8.9190	8.9190	0.268

**Total Di-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-4/10	19.68	19.62	1.656e5	1.044e5	1.073e4	6.735e3	1.59	NO	1.746e4	23.873	23.873	0.575
2 PCB-7/9	21.48	21.45	3.023e4	1.893e4	2.796e3	1.883e3	1.48	NO	4.679e3	5.0585	5.0585	0.464
3 PCB-6	22.13	22.14	1.039e5	7.051e4	6.693e3	4.608e3	1.45	NO	1.130e4	11.460	11.460	0.435
4 PCB-5/8	22.54	22.53	4.425e5	2.706e5	2.957e4	1.872e4	1.58	NO	4.828e4	50.495	50.495	0.449
5 PCB-11	24.91	24.92	6.298e5	3.947e5	4.307e4	2.776e4	1.55	NO	7.083e4	69.679	69.679	0.460
6 PCB-12/13	25.34	25.28	7.302e4	5.292e4	5.732e3	3.987e3	1.44	NO	9.719e3	10.490	10.490	0.505
7 PCB-15	25.63	25.62	4.967e5	3.101e5	3.386e4	2.186e4	1.55	NO	5.572e4	59.663	59.663	0.501

**2nd Function Tri-PCBs**

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-19	23.87	23.86	7.665e4	7.045e4	4.955e3	4.911e3	1.01	NO	9.866e3	25.386	25.386	0.715
2 PCB-18	25.53	25.55	3.221e5	3.133e5	2.054e4	1.963e4	1.05	NO	4.017e4	82.432	82.432	0.581
3 PCB-17	25.72	25.72	1.581e5	1.559e5	1.054e4	1.023e4	1.03	NO	2.077e4	45.968	45.968	0.626
4 PCB-24/27	26.32	26.29	4.255e4	4.200e4	2.974e3	2.975e3	1.00	NO	5.949e3	9.2272	9.2272	0.439
5 PCB-16/32	26.85	26.85	1.657e5	1.581e5	1.697e4	1.643e4	1.03	NO	3.340e4	60.560	60.560	0.513

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3rd Function Tri-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-34	27.66	27.66	1.345e4	1.242e4	1.098e3	8.570e2	1.28	YES	1.955e3	0.00000	1.8526	0.570
2	PCB-26	28.24	28.24	2.121e5	2.105e5	1.618e4	1.594e4	1.02	NO	3.212e4	34.097	34.097	0.571
3	PCB-25	28.39	28.40	1.329e5	1.225e5	1.048e4	9.709e3	1.08	NO	2.019e4	21.291	21.291	0.567
4	PCB-31	28.77	28.76	1.067e6	1.031e6	8.160e4	7.801e4	1.05	NO	1.596e5	154.32	154.32	0.520
5	PCB-28	28.87	28.87	1.304e6	1.247e6	1.012e5	9.425e4	1.07	NO	1.954e5	191.03	191.03	0.526
6	PCB-20/21/33	29.51	29.52	5.206e5	4.929e5	4.507e4	4.181e4	1.08	NO	8.687e4	92.469	92.469	0.572
7	PCB-22	29.95	29.97	3.533e5	3.259e5	2.791e4	2.624e4	1.06	NO	5.414e4	55.760	55.760	0.554
8	PCB-38	31.95	31.90	2.398e4	2.749e4	2.014e3	2.375e3	0.85	YES	4.390e3	0.00000	4.0000	0.530
9	PCB-35	32.50	32.48	2.628e4	2.148e4	2.541e3	1.756e3	1.45	YES	4.298e3	0.00000	3.6558	0.534
10	PCB-37	32.94	32.94	4.429e5	3.944e5	3.542e4	3.161e4	1.12	NO	6.703e4	70.741	70.741	0.552



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ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

Total Tetra-PCBs

	Name	Pred.R...	RT:	m1 Height:	m2 Height:	m1 Resp:	m2 Resp	RA	n/y	Resp	Conc!	EMPC:	DL
1	PCB-54	27.70	27.70	1.876e4	2.574e4	1.531e3	1.969e3	0.78	NO	3.501e3	5.8915	5.8915	0.292
2	PCB-50	28.91	28.92	5.173e3	5.456e3	3.302e2	3.905e2	0.85	NO	7.206e2	1.4889	1.4889	0.358
3	PCB-53	29.58	29.58	1.326e5	1.635e5	1.001e4	1.273e4	0.79	NO	2.274e4	48.840	48.840	0.394
4	PCB-51	29.93	29.93	1.016e5	1.308e5	7.876e3	9.927e3	0.79	NO	1.780e4	35.772	35.772	0.369
5	PCB-45	30.38	30.38	7.247e4	8.776e4	5.682e3	7.019e3	0.81	NO	1.270e4	31.667	31.667	0.458
6	PCB-46	30.88	30.88	3.537e4	3.837e4	2.721e3	2.943e3	0.92	YES	5.664e3	0.00000	13.420	0.473
7	PCB-52/69	31.38	31.36	9.937e5	1.270e6	8.220e4	1.023e5	0.80	NO	1.845e5	338.51	338.51	0.337
8	PCB-73	31.49	31.45	3.448e4	3.291e4	1.165e3	1.211e3	0.96	YES	2.376e3	0.00000	3.1780	0.272
9	PCB-43/49	31.67	31.68	7.219e5	8.861e5	5.983e4	7.369e4	0.81	NO	1.335e5	281.25	281.25	0.387
10	PCB-47	31.90	31.90	4.247e5	5.198e5	3.592e4	4.381e4	0.82	NO	7.973e4	171.12	171.12	0.414
11	PCB-48/75	32.01	32.03	1.403e5	1.697e5	1.154e4	1.429e4	0.81	NO	2.583e4	45.618	45.618	0.341
12	PCB-44	32.72	32.78	5.800e5	7.350e5	4.459e4	5.550e4	0.80	NO	1.001e5	240.26	240.26	0.463
13	PCB-42/59	32.94	33.00	2.548e5	3.326e5	1.862e4	2.448e4	0.76	NO	4.309e4	81.217	81.217	0.364
14	PCB-41/64/71/72	33.56	33.56	6.608e5	8.341e5	5.430e4	6.862e4	0.79	NO	1.229e5	204.81	204.81	0.322
15	PCB-68	33.82	33.82	1.044e4	1.451e4	7.730e2	1.048e3	0.74	NO	1.821e3	2.8191	2.8191	0.299
16	PCB-40	34.04	34.02	8.442e4	1.053e5	6.472e3	7.972e3	0.81	NO	1.444e4	47.466	47.466	0.634
17	PCB-57	34.40	34.41	9.274e3	1.287e4	7.018e2	8.835e2	0.79	NO	1.585e3	2.2355	2.2355	0.252
18	PCB-67	34.71	34.73	3.009e4	3.850e4	2.477e3	3.276e3	0.76	NO	5.752e3	8.7020	8.7020	0.270
19	PCB-58	34.84	34.84	8.022e3	1.168e4	6.022e2	8.716e2	0.69	NO	1.474e3	2.0074	2.0074	0.243
20	PCB-63	34.99	35.01	5.431e4	6.622e4	4.310e3	5.438e3	0.79	NO	9.747e3	14.914	14.914	0.273
21	PCB-74	35.29	35.31	5.553e5	6.947e5	4.426e4	5.616e4	0.79	NO	1.004e5	138.96	138.96	0.247
22	PCB-61/70	35.51	35.51	1.421e6	1.787e6	1.146e5	1.406e5	0.82	NO	2.552e5	397.08	397.08	0.278
23	PCB-76/66	35.70	35.74	1.271e6	1.565e6	1.008e5	1.249e5	0.81	NO	2.257e5	317.85	317.85	0.251
24	PCB-55	36.30	36.26	1.148e4	1.803e4	1.208e3	1.619e3	0.75	NO	2.827e3	3.7415	3.7415	0.236
25	PCB-56/60	36.79	36.78	6.695e5	8.509e5	5.392e4	6.828e4	0.79	NO	1.222e5	185.72	185.72	0.271
26	PCB-79	37.92	37.91	2.922e4	3.528e4	2.555e3	2.943e3	0.87	NO	5.497e3	7.4704	7.4704	0.242
27	PCB-78	38.62	38.56	5.707e3	6.090e3	5.425e2	4.622e2	1.17	YES	1.005e3	0.00000	1.1781	0.269
28	PCB-81	39.16	39.18	1.972e4	2.759e4	6.354e2	8.077e2	0.79	NO	1.443e3	2.2569	2.2569	0.292
29	PCB-77	39.77	39.77	1.387e5	1.575e5	1.103e4	1.326e4	0.83	NO	2.430e4	35.929	35.929	0.274

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ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

3rd Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-104	32.63			2.674e3		2.569e2	0.00	YES				0.333
2	PCB-96	33.94	33.85	1.437e4	5.958e3	1.202e3	6.093e2	1.97	YES	1.812e3	0.00000	4.0971	0.324
3	PCB-103	34.49	34.41	3.933e4	2.289e4	3.008e3	1.760e3	1.71	NO	4.768e3	15.430	15.430	0.399
4	PCB-100	34.87	34.79	3.585e4	2.351e4	2.813e3	1.820e3	1.55	NO	4.633e3	14.726	14.726	0.392
5	PCB-94	35.29	35.27	1.235e4	7.347e3	9.906e2	5.819e2	1.70	NO	1.573e3	5.8365	5.8365	0.401
6	PCB-95/98/102	35.76	35.83	1.021e6	6.245e5	8.323e4	5.201e4	1.60	NO	1.352e5	395.43	395.43	0.316
7	PCB-88/91	36.24	36.24	2.067e5	1.412e5	1.690e4	1.082e4	1.56	NO	2.773e4	91.702	91.702	0.358
8	PCB-84/92	37.17	37.17	5.516e5	3.534e5	4.406e4	2.758e4	1.60	NO	7.164e4	242.01	242.01	0.363
9	PCB-89	37.36	37.35	1.649e4	8.106e3	1.197e3	6.107e2	1.96	YES	1.807e3	0.00000	4.8637	0.335
10	PCB-90/101	37.55	37.58	1.582e6	9.569e5	1.269e5	7.806e4	1.63	NO	2.050e5	627.74	627.74	0.329
11	PCB-113	37.80	37.82	2.273e4	1.404e4	7.896e2	4.351e2	1.81	YES	1.225e3	0.00000	2.5294	0.244
12	PCB-99	37.90	37.91	7.786e5	4.872e5	6.108e4	3.789e4	1.61	NO	9.897e4	257.58	257.58	0.280
13	PCB-119	38.38	38.38	7.362e4	4.284e4	5.958e3	3.592e3	1.66	NO	9.550e3	21.102	21.102	0.244
14	PCB-108/112	38.53	38.56	6.759e4	4.160e4	5.325e3	3.286e3	1.62	NO	8.611e3	23.771	23.771	0.304
15	PCB-97	38.90	38.92	3.490e5	2.259e5	2.821e4	1.814e4	1.56	NO	4.635e4	144.22	144.22	0.343
16	PCB-86	39.07	39.10	7.318e3	5.171e3	3.112e2	3.020e2	1.03	YES	6.132e2	0.00000	1.8235	0.394
17	PCB-87/117/125	39.19	39.20	4.588e5	2.968e5	3.802e4	2.414e4	1.58	NO	6.216e4	159.06	159.06	0.282
18	PCB-111/115	39.35	39.36	3.394e4	2.012e4	1.992e3	1.206e3	1.65	NO	3.197e3	6.6759	6.6759	0.230
19	PCB-85/116	39.47	39.47	1.970e5	1.283e5	1.701e4	1.070e4	1.59	NO	2.770e4	78.329	78.329	0.312
20	PCB-120	39.74	39.77	1.161e4	8.099e3	7.453e2	6.008e2	1.24	YES	1.346e3	0.00000	2.4332	0.219
21	PCB-110	39.89	39.88	1.866e6	1.134e6	1.480e5	9.175e4	1.61	NO	2.397e5	548.71	548.71	0.252
22	PCB-82	40.52	40.52	1.090e5	7.417e4	8.996e3	5.794e3	1.55	NO	1.479e4	56.541	56.541	0.411
23	PCB-124	41.23	41.24	5.085e4	3.349e4	4.964e3	3.118e3	1.59	NO	8.082e3	17.281	17.281	0.230
24	PCB-107/109	41.37	41.41	1.352e5	8.170e4	1.080e4	6.908e3	1.56	NO	1.771e4	39.418	39.418	0.239
25	PCB-123	41.56	41.56	2.359e4	1.525e4	1.793e3	1.176e3	1.52	NO	2.970e3	7.4043	7.4043	0.268
26	PCB-106/118	41.76	41.75	1.504e6	9.222e5	1.275e5	7.874e4	1.62	NO	2.062e5	488.01	488.01	0.254

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4th Function Penta-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-114	42.43	42.42	5.904e4	3.142e4	5.126e3	2.828e3	1.81	YES	7.954e3	0.00000	9.0883	0.410
2	PCB-122	42.57	42.58	2.455e4	1.847e4	2.114e3	1.472e3	1.44	NO	3.586e3	5.4400	5.4400	0.496
3	PCB-105	43.31	43.31	9.457e5	6.230e5	7.913e4	5.112e4	1.55	NO	1.303e5	181.37	181.37	0.455
4	PCB-126	45.62	45.63	1.559e4	1.030e4	1.309e3	7.898e2	1.66	NO	2.098e3	2.8277	2.8277	0.459

3rd Function Hexa-PCBs

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-155	37.09	37.11	2.106e3	1.322e3	1.317e2	7.576e1	1.74	YES	2.074e2	0.00000	0.76160	0.317
2	PCB-150	38.40	38.40	5.550e3	5.421e3	4.437e2	3.889e2	1.14	NO	8.325e2	3.5991	3.5991	0.305
3	PCB-152	38.88	38.88	1.809e3	1.094e3	1.317e2	7.271e1	1.81	YES	2.044e2	0.00000	0.64293	0.279
4	PCB-136	39.68	39.68	1.574e5	1.157e5	1.264e4	9.728e3	1.30	NO	2.237e4	102.63	102.63	0.324
5	PCB-148	39.79	39.79	5.693e3	3.766e3	3.826e2	2.316e2	1.65	YES	6.142e2	0.00000	2.8874	0.393
6	PCB-154	40.30	40.29	2.238e4	2.042e4	1.950e3	1.620e3	1.20	NO	3.569e3	18.191	18.191	0.360
7	PCB-151	40.97	40.96	2.241e5	1.797e5	1.749e4	1.352e4	1.29	NO	3.101e4	184.66	184.66	0.420
8	PCB-135	41.19	41.19	1.203e5	9.968e4	1.001e4	8.082e3	1.24	NO	1.809e4	91.886	91.886	0.358
9	PCB-144	41.30	41.30	3.788e4	3.108e4	2.816e3	2.202e3	1.28	NO	5.017e3	29.786	29.786	0.419
10	PCB-147	41.43	41.43	2.121e4	1.704e4	1.787e3	1.277e3	1.40	NO	3.064e3	17.196	17.196	0.396
11	PCB-139/149	41.72	41.69	7.653e5	5.847e5	6.003e4	4.698e4	1.28	NO	1.070e5	528.83	528.83	0.349
12	PCB-140	41.90	41.88	7.567e3	5.015e3	7.376e2	4.933e2	1.50	YES	1.231e3	0.00000	6.5208	0.416

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4th Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-134/143	42.34	42.37	9.708e4	6.660e4	8.075e3	5.610e3	1.44	YES	1.368e4	0.00000	34.732	0.539
2	PCB-131/133	42.67	42.65	6.313e4	5.301e4	5.288e3	4.300e3	1.23	NO	9.588e3	24.504	24.504	0.499
3	PCB-142	42.83	42.84	1.584e3	2.196e3	1.182e2	1.614e2	0.73	YES	2.796e2	0.00000	0.59396	0.543
4	PCB-146/165	43.07	43.07	4.492e5	3.549e5	3.687e4	2.916e4	1.26	NO	6.603e4	136.25	136.25	0.403
5	PCB-132/161	43.31	43.33	6.191e5	5.032e5	4.837e4	3.878e4	1.25	NO	8.715e4	178.52	178.52	0.400
6	PCB-153	43.48	43.48	2.572e6	2.042e6	2.112e5	1.676e5	1.26	NO	3.788e5	742.19	742.19	0.382
7	PCB-141	44.24	44.24	3.902e5	3.014e5	3.200e4	2.454e4	1.30	NO	5.653e4	143.10	143.10	0.500
8	PCB-137	44.63	44.64	6.677e4	5.300e4	4.933e3	4.188e3	1.18	NO	9.121e3	21.345	21.345	0.462
9	PCB-130	44.73	44.75	1.074e5	8.370e4	9.135e3	7.361e3	1.24	NO	1.650e4	48.418	48.418	0.580
10	PCB-138/163/164	45.13	45.13	2.153e6	1.705e6	2.087e5	1.649e5	1.27	NO	3.736e5	728.45	728.45	0.390
11	PCB-158/160	45.40	45.36	2.305e5	1.846e5	1.895e4	1.492e4	1.27	NO	3.387e4	68.361	68.361	0.404
12	PCB-129	45.63	45.63	5.073e4	4.355e4	4.168e3	3.410e3	1.22	NO	7.578e3	21.883	21.883	0.578
13	PCB-166	46.10	46.10	8.104e3	6.234e3	6.935e2	4.361e2	1.59	YES	1.130e3	0.00000	1.8173	0.374
14	PCB-128/162	46.73	46.72	2.778e5	2.149e5	2.348e4	1.845e4	1.27	NO	4.193e4	98.271	98.271	0.471
15	PCB-167	47.14	47.14	8.410e4	6.630e4	7.033e3	5.674e3	1.24	NO	1.271e4	23.586	23.586	0.382
16	PCB-156	48.47	48.49	2.129e5	1.580e5	1.832e4	1.397e4	1.31	NO	3.229e4	62.541	62.541	0.395
17	PCB-157	48.75	48.75	4.218e4	2.946e4	3.609e3	2.475e3	1.46	YES	6.085e3	0.00000	11.715	0.427

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**Total Hepta-PCBs**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-188	43.12	43.09	2.310e3	1.944e3	2.242e2	1.760e2	1.27	YES	4.002e2	0.00000	0.85895	0.361
2 PCB-179	44.38	44.36	2.795e5	2.693e5	2.368e4	2.215e4	1.07	NO	4.583e4	108.42	108.42	0.359
3 PCB-176	44.87	44.85	8.067e4	6.730e4	6.667e3	5.879e3	1.13	NO	1.255e4	29.439	29.439	0.356
4 PCB-178	46.01	45.99	1.021e5	9.609e4	8.256e3	7.766e3	1.06	NO	1.602e4	52.162	52.162	0.494
5 PCB-175	46.37	46.35	1.877e4	1.591e4	1.266e3	1.202e3	1.05	NO	2.468e3	7.9274	7.9274	0.487
6 PCB-182/187	46.54	46.50	6.078e5	5.971e5	5.218e4	5.073e4	1.03	NO	1.029e5	296.41	296.41	0.437
7 PCB-183	46.86	46.86	2.499e5	2.318e5	2.171e4	2.037e4	1.07	NO	4.209e4	126.36	126.36	0.455
8 PCB-185	47.53	47.52	4.833e4	4.710e4	4.047e3	3.903e3	1.04	NO	7.950e3	25.712	25.712	0.501
9 PCB-174	47.91	47.90	4.485e5	4.137e5	3.664e4	3.402e4	1.08	NO	7.066e4	237.30	237.30	0.520
10 PCB-181	48.02	47.99	1.355e4	1.484e4	6.798e2	5.947e2	1.14	NO	1.274e3	3.9296	3.9296	0.477
11 PCB-177	48.20	48.18	2.437e5	2.527e5	2.043e4	2.105e4	0.97	NO	4.148e4	147.58	147.58	0.551
12 PCB-171	48.50	48.49	1.102e5	9.842e4	9.285e3	8.118e3	1.14	NO	1.740e4	60.112	60.112	0.535
13 PCB-173	48.93	48.92	8.582e3	7.285e3	6.506e2	5.846e2	1.11	NO	1.235e3	4.7191	4.7191	0.591
14 PCB-172	49.39	49.40	6.654e4	6.086e4	5.636e3	4.830e3	1.17	NO	1.047e4	34.598	34.598	0.512
15 PCB-180	49.81	49.81	1.000e6	9.613e5	8.358e4	7.992e4	1.05	NO	1.635e5	526.49	526.49	0.498
16 PCB-193	50.03	50.02	6.350e4	6.334e4	5.430e3	5.111e3	1.06	NO	1.054e4	28.578	28.578	0.420
17 PCB-191	50.29	50.28	1.811e4	1.773e4	1.515e3	1.481e3	1.02	NO	2.996e3	7.9648	7.9648	0.411
18 PCB-170	51.46	51.46	3.614e5	3.453e5	2.995e4	2.781e4	1.08	NO	5.776e4	218.41	218.41	0.564
19 PCB-190	51.67	51.67	1.016e5	9.342e4	8.358e3	7.841e3	1.07	NO	1.620e4	46.349	46.349	0.427
20 PCB-189	53.17	53.17	1.902e4	1.628e4	1.577e3	1.191e3	1.32	YES	2.769e3	0.00000	7.1523	0.382

**4th Function Octa-PCBs**

Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 PCB-202	48.71	48.69	4.110e4	4.317e4	3.304e3	3.476e3	0.95	NO	6.780e3	26.018	26.018	0.427
2 PCB-201	49.19	49.19	2.170e4	2.515e4	1.878e3	2.142e3	0.88	NO	4.020e3	17.118	17.118	0.474
3 PCB-197	49.65	49.68	9.127e3	5.570e3	6.386e2	5.371e2	1.19	YES	1.176e3	0.00000	4.0180	0.440
4 PCB-200	50.59	50.59	2.383e4	2.166e4	1.974e3	2.036e3	0.97	NO	4.010e3	16.793	16.793	0.466
5 PCB-198	52.14	52.14	8.789e3	9.884e3	5.876e2	6.431e2	0.91	NO	1.231e3	6.9500	6.9500	0.628
6 PCB-199	52.28	52.28	1.527e5	1.746e5	1.164e4	1.331e4	0.87	NO	2.494e4	138.16	138.16	0.616
7 PCB-196/203	52.57	52.58	1.699e5	1.929e5	1.262e4	1.449e4	0.87	NO	2.712e4	145.02	145.02	0.595

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5th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-195	53.86	53.86	9.434e4	1.013e5	5.771e3	6.575e3	0.88	NO	1.235e4	39.277	39.277	0.577
2	PCB-194	54.77	54.76	3.000e5	3.320e5	1.752e4	1.953e4	0.90	NO	3.705e4	110.32	110.32	0.540
3	PCB-205	55.04	55.03	1.469e4	1.608e4	9.347e2	9.649e2	0.97	NO	1.900e3	4.8953	4.8953	0.467

Total Nona-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-208	54.01	54.00	9.612e4	6.743e4	5.872e3	4.122e3	1.42	NO	9.994e3	35.317	35.317	0.554
2	PCB-207	54.33	54.33	3.457e4	2.462e4	2.128e3	1.484e3	1.43	NO	3.612e3	12.998	12.998	0.565
3	PCB-206	56.30	56.30	2.411e5	1.749e5	1.398e4	1.058e4	1.32	NO	2.457e4	113.02	113.02	0.696

Deca-CB

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	PCB-209	57.51	57.53	3.240e5	2.750e5	1.706e4	1.457e4	1.17	NO	3.163e4	161.03	161.03	0.453

Total PCBs

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

Total Mono-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-1	15.59	15.60	1.600e7	4.977e6	9.392e5	2.976e5	3.16	NO	1.237e6	1141.9		1.21
2	13C-PCB-3	18.24	18.25	1.630e7	5.061e6	1.003e6	3.096e5	3.24	NO	1.312e6	1188.3		1.19

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**Total Di-Isotopes**

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-4	19.61	19.60	1.146e7	7.114e6	7.127e5	4.412e5	1.62	NO	1.154e6	1586.6		0.670
2	13C-PCB-9	21.42	21.42	1.849e7	1.121e7	1.174e6	7.228e5	1.62	NO	1.897e6	1613.6		0.415
3	13C-PCB-11	24.88	24.89	1.588e7	9.822e6	1.098e6	6.784e5	1.62	NO	1.777e6	1524.2		0.418
4	13C-PCB-15	25.58	25.60	2.180e7	1.349e7	1.476e6	9.105e5	1.62	NO	2.386e6	1968.7		0.402

**2nd Function Tri-Isotopes**

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-19	23.84	23.84	5.440e6	5.107e6	3.581e5	3.335e5	1.07	NO	6.916e5	1143.6		4.44
2	13C-PCB-32	26.83	26.83	9.013e6	8.580e6	6.039e5	5.691e5	1.06	NO	1.173e6	1300.5		2.98

**3rd Function Tri-Isotopes**

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-31	28.72	28.74	1.431e7	1.290e7	1.093e6	9.821e5	1.11	NO	2.075e6	1968.7		3.92
2	13C-PCB-28	28.85	28.85	1.309e7	1.227e7	1.019e6	9.455e5	1.08	NO	1.965e6	1751.7		3.69
3	13C-PCB-37	32.84	32.92	1.290e7	1.160e7	9.775e5	8.713e5	1.12	NO	1.849e6	1773.4		3.97

**Tetra-Isotopes**

	Name	Pred.R.	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-54	27.68	27.68	6.389e6	7.875e6	4.854e5	5.980e5	0.81	NO	1.083e6	1546.0		1.21
2	13C-PCB-52	31.35	31.34	5.079e6	6.322e6	4.090e5	5.108e5	0.80	NO	9.198e5	1631.2		1.51
3	13C-PCB-47	31.88	31.88	5.337e6	6.524e6	4.515e5	5.435e5	0.83	NO	9.950e5	1655.2		1.42
4	13C-PCB-70	35.50	35.49	7.040e6	8.292e6	5.511e5	6.493e5	0.85	NO	1.200e6	1719.3		1.22
5	13C-PCB-80	35.94	35.94	7.453e6	8.868e6	5.820e5	6.906e5	0.84	NO	1.273e6	1765.2		1.18
6	13C-PCB-60	36.74	36.78	7.879e6	9.392e6	6.213e5	7.591e5	0.82	NO	1.380e6	1968.7		1.21
7	13C-PCB-79	37.88	37.88	7.512e6	9.045e6	6.057e5	7.300e5	0.83	NO	1.336e6	1782.0		1.14
8	13C-PCB-81	39.14	39.14	6.659e6	8.032e6	5.456e5	6.574e5	0.83	NO	1.203e6	1736.5		1.23
9	13C-PCB-77	39.76	39.76	6.585e6	7.838e6	5.345e5	6.364e5	0.84	NO	1.171e6	1723.9		1.25

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3rd Function Penta-Isotopes

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA (n/y)	Resp	Conc	EMPC	DL
1 13C-PCB-104	32.52	32.61	4.435e6	2.629e6	4.074e5	2.422e5	1.68 NO	6.496e5	1602.2		0.732
2 13C-PCB-95	35.78	35.81	4.332e6	2.618e6	3.490e5	2.100e5	1.66 NO	5.590e5	1740.4		0.924
3 13C-PCB-101	37.54	37.54	4.382e6	2.762e6	3.512e5	2.215e5	1.59 NO	5.726e5	1811.3		0.938
4 13C-PCB-97	38.87	38.88	3.727e6	2.276e6	3.060e5	1.875e5	1.63 NO	4.935e5	1776.7		1.07
5 13C-PCB-111	39.33	39.35	6.148e6	3.775e6	4.883e5	2.970e5	1.64 NO	7.853e5	1968.7		0.744
6 13C-PCB-123	41.54	41.54	5.077e6	3.201e6	4.064e5	2.527e5	1.61 NO	6.591e5	1771.3		0.797
7 13C-PCB-118	41.73	41.73	5.262e6	3.274e6	4.212e5	2.611e5	1.61 NO	6.823e5	1735.5		0.755

4th Function Penta-Isotopes

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA (n/y)	Resp	Conc	EMPC	DL
1 13C-PCB-114	42.38	42.40	1.057e7	6.547e6	8.492e5	5.251e5	1.62 NO	1.374e6	2331.3		1.06
2 13C-PCB-105	43.30	43.29	1.037e7	6.358e6	8.336e5	5.119e5	1.63 NO	1.345e6	2245.0		1.04
3 13C-PCB-127	43.63	43.65	1.089e7	6.574e6	8.872e5	5.383e5	1.65 NO	1.425e6	2301.8		1.01
4 13C-PCB-126	45.59	45.61	9.225e6	5.684e6	7.726e5	4.739e5	1.63 NO	1.246e6	2085.7		1.05

4th Function Hexa-Isotopes

Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA (n/y)	Resp	Conc	EMPC	DL
1 13C-PCB-153	43.44	43.47	6.465e6	5.182e6	5.218e5	4.167e5	1.25 NO	9.385e5	1804.1		1.31
2 13C-PCB-141	44.23	44.22	5.246e6	4.022e6	4.287e5	3.289e5	1.30 NO	7.576e5	1762.4		1.59
3 13C-PCB-138	45.08	45.10	5.370e6	4.149e6	4.445e5	3.421e5	1.30 NO	7.866e5	1741.9		1.51
4 13C-PCB-159	46.42	46.42	6.226e6	4.957e6	5.179e5	4.078e5	1.27 NO	9.257e5	1687.3		1.24
5 13C-PCB-128	46.67	46.69	5.144e6	3.846e6	4.279e5	3.224e5	1.33 NO	7.504e5	1968.7		1.79
6 13C-PCB-167	47.12	47.12	6.387e6	4.898e6	5.444e5	4.124e5	1.32 NO	9.567e5	1743.0		1.24
7 13C-PCB-156	48.45	48.45	6.005e6	4.690e6	5.062e5	3.967e5	1.28 NO	9.028e5	1695.7		1.28
8 13C-PCB-157	48.74	48.73	6.125e6	4.582e6	5.122e5	3.852e5	1.33 NO	8.974e5	1685.4		1.28
9 13C-PCB-169	51.01	51.03	5.402e6	4.235e6	4.826e5	3.767e5	1.28 NO	8.593e5	1693.6		1.34



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5th Function Octa-Isotopes

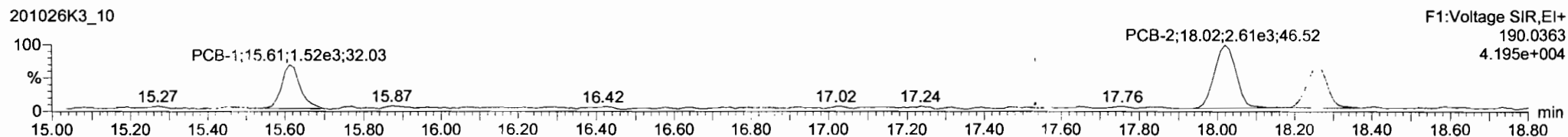
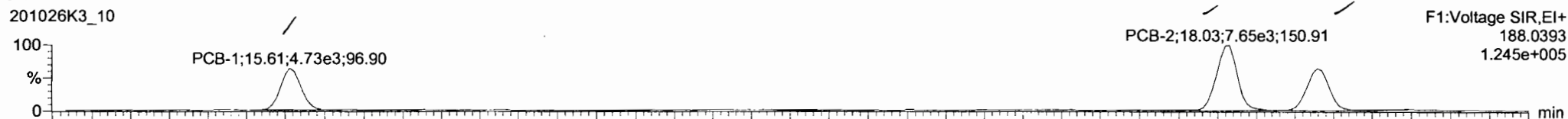
	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	13C-PCB-194	54.75	54.75	4.973e6	5.304e6	2.861e5	3.064e5	0.93	NO	5.925e5	2034.2		1.91
2	13C-PCB-205	55.01	55.03	5.991e6	6.390e6	3.611e5	3.856e5	0.94	NO	7.466e5	1968.7		1.47

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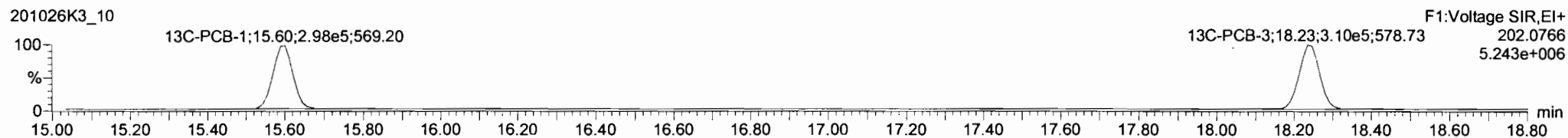
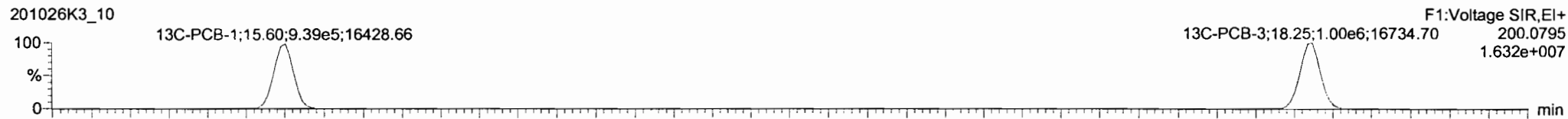
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Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

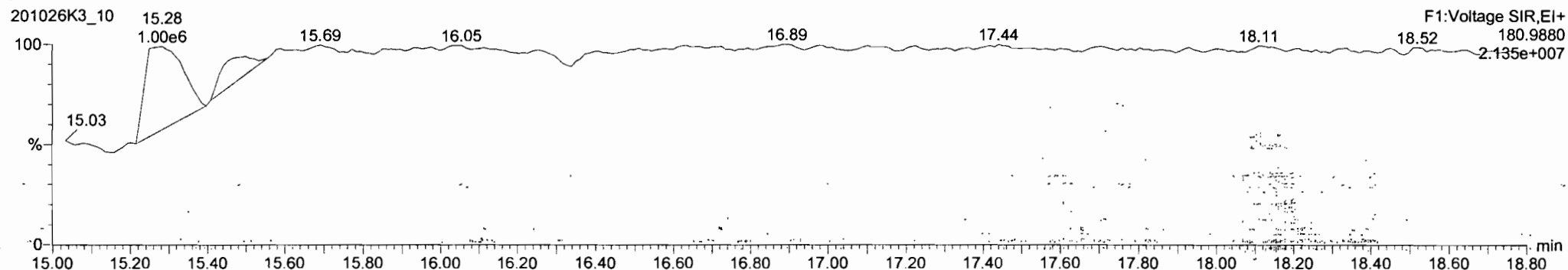
**PCB-1**



**13C-PCB-1**

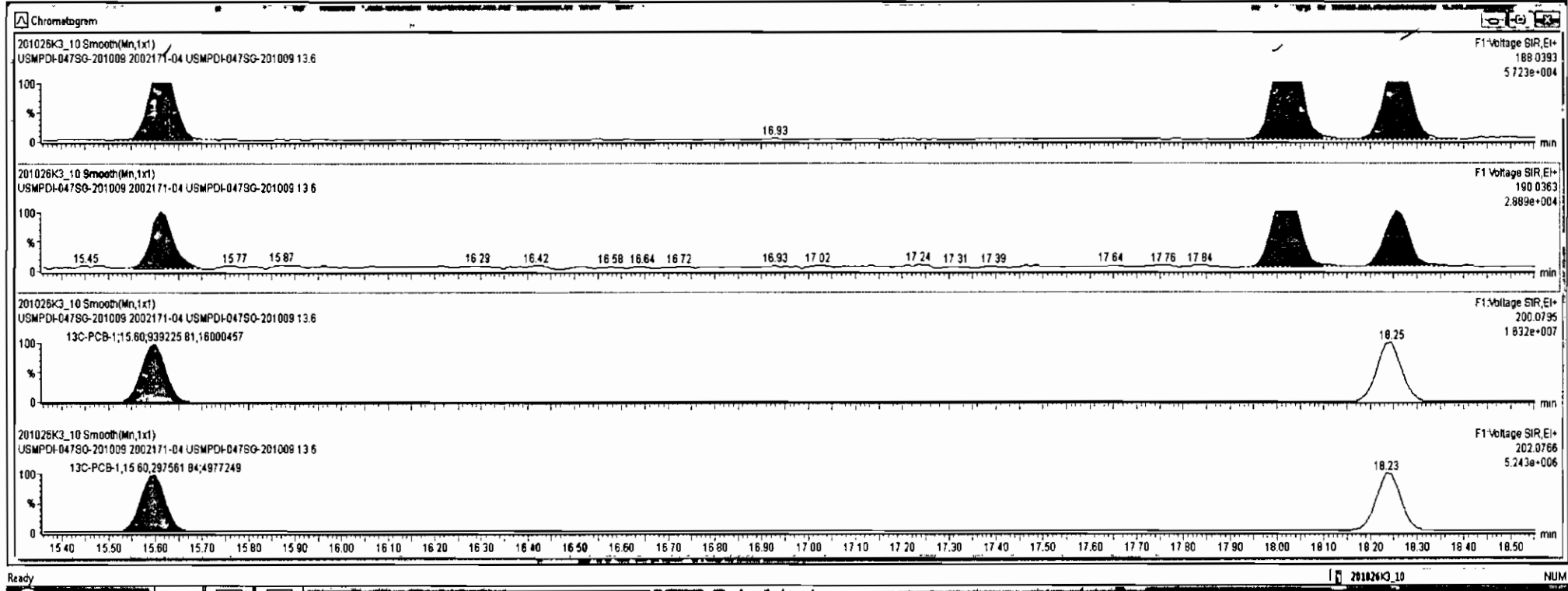


**PFK1**



#	Name	Resp	RA	n/y	RPF	w/Aval	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	229.5		3.90	229.5
226	226 2nd Function Tri-PCBs				1.0907	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9826	5.080	0.00		0.000		NO	619.4		7.79	626.9
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2676		10.4	2689
229	229 3rd Function Penta-PCBs				1.2157	5.080	0.00		0.000		NO	3242		8.93	3252
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1 PCB-1	15.61	15.61	4.661e3	1.518e3	3.130	3.07	NO	8.4158	8.4158
2	2 PCB-2	18.03	18.03	7.510e3	2.634e3	3.130	2.85	NO	12.866	12.866
3	3 PCB-3	18.26	18.26	5.212e3	1.615e3	3.130	3.23	NO	8.9190	8.9190

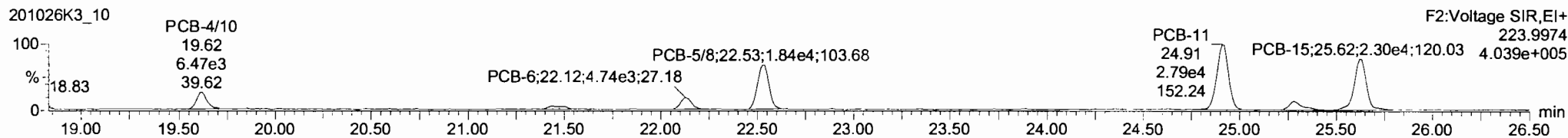
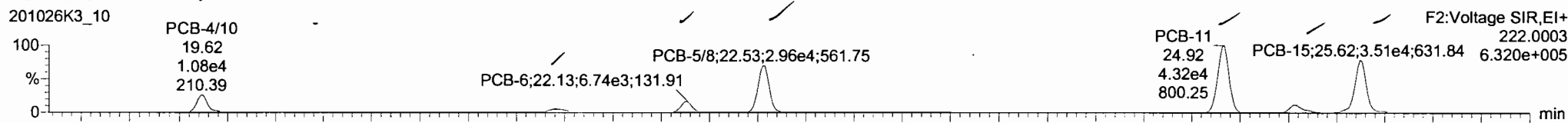


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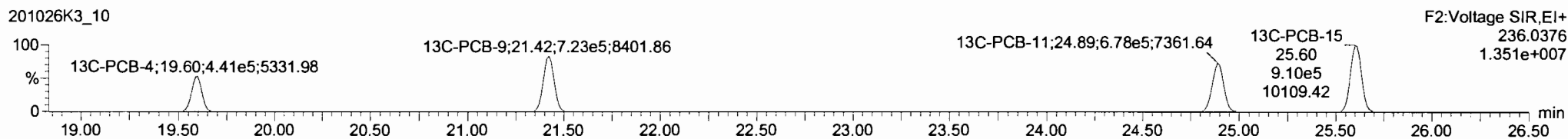
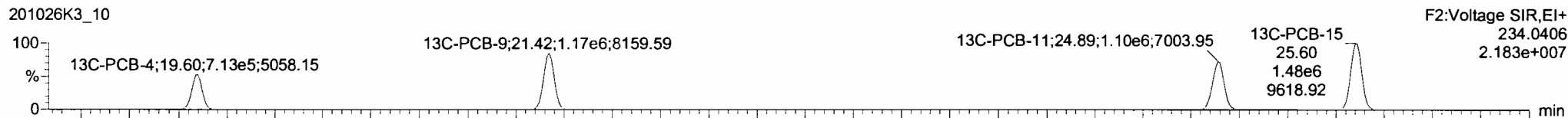
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Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

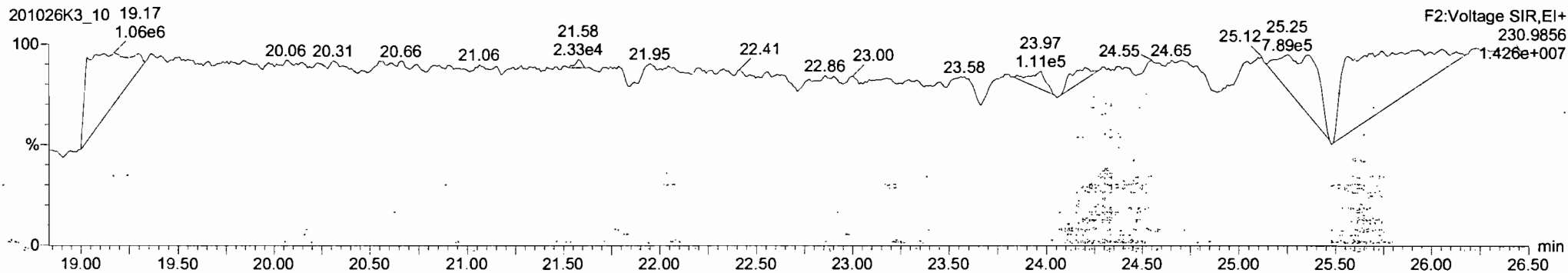
**PCB-4/10**



**13C-PCB-4**

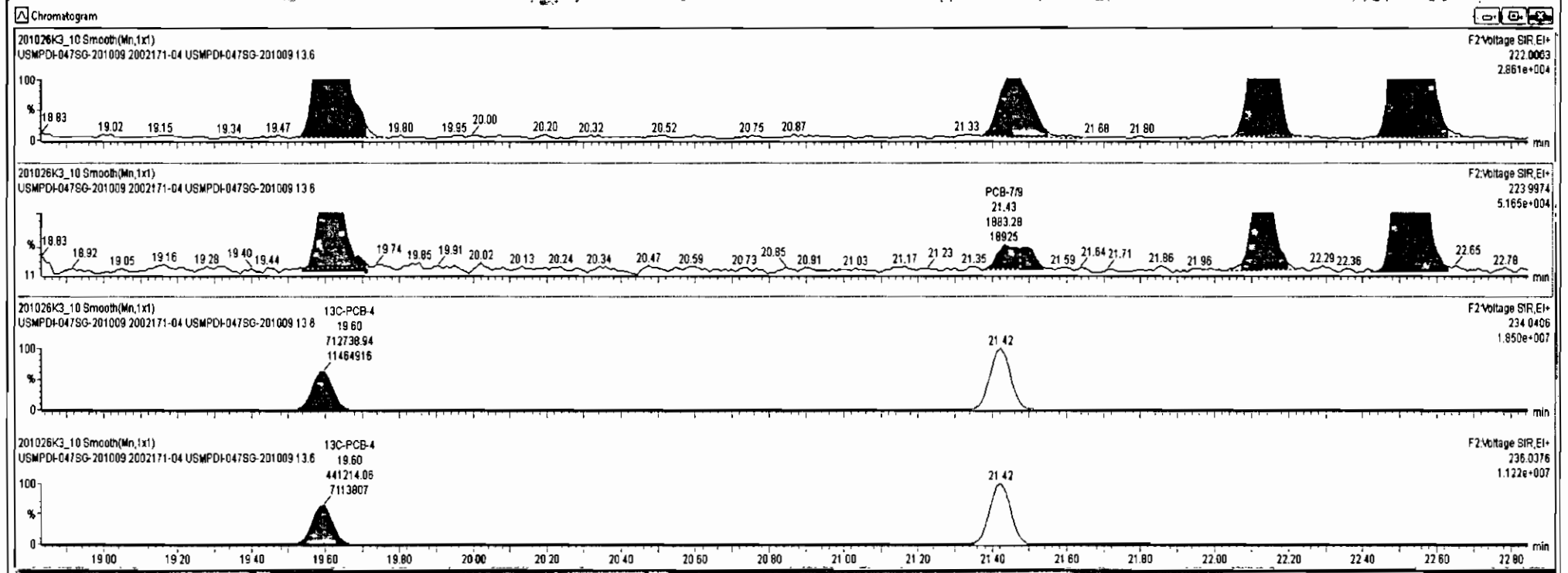


**PFK2a**



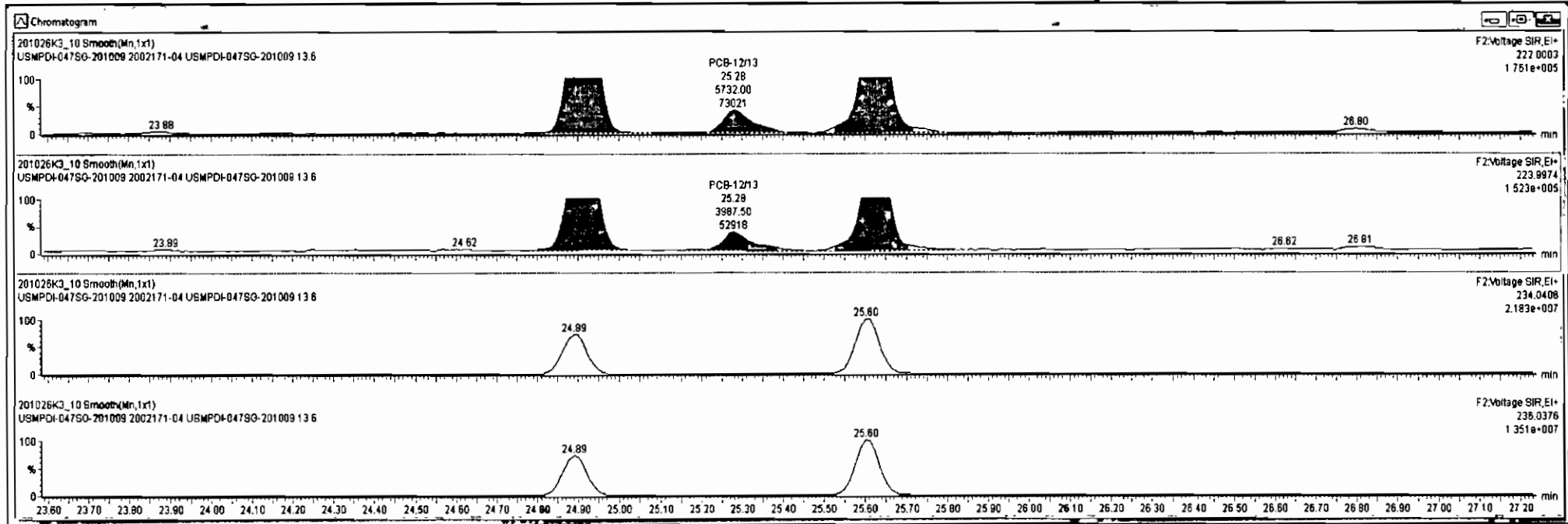
#	Name	Resp	RA	n/y	RRF	wt/rd	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	619.4		7.79	628.5
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2676		10.4	2689
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3242		8.93	3252
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	19.68	19.62	1.073e4	6.735e3	1.560	1.59	NO	23.873	23.873
2	5 PCB-7/9	21.48	21.45	2.796e3	1.883e3	1.560	1.48	NO	5.0585	5.0585
3	6 PCB-6	22.13	22.13	6.693e3	4.608e3	1.560	1.45	NO	11.460	11.450
4	7 PCB-5/6	22.54	22.53	2.957e4	1.872e4	1.560	1.58	NO	50.495	50.495
5	9 PCB-11	24.91	24.92	4.307e4	2.776e4	1.560	1.55	NO	69.679	69.679
6	10 PCB-12/13	25.34	25.28	5.732e3	3.997e3	1.560	1.44	NO	10.490	10.490
7	11 PCB-15	25.63	25.62	3.306e4	2.196e4	1.560	1.55	NO	59.663	59.663



#	Name	Resp	RA	nly	RF	wt/Vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0907	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	819.4		7.79	828.9
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2676		10.4	2689
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3242		8.93	3252
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1*Ratio (Pred)	RA	nly	EMPC	Conc.
1	4 PCB-4/10	19.68	19.62	1.073e4	6.735e3	1.560	1.59	NO	23.873	23.873
2	5 PCB-7/8	21.48	21.45	2.796e3	1.883e3	1.560	1.48	NO	5.0585	5.0585
3	6 PCB-6	22.13	22.13	6.893e3	4.608e3	1.560	1.45	NO	11.480	11.480
4	7 PCB-5/8	22.54	22.53	2.957e4	1.872e4	1.560	1.58	NO	50.495	50.495
5	9 PCB-11	24.91	24.92	4.307e4	2.776e4	1.560	1.55	NO	69.679	69.679
6	10 PCB-12/13	25.34	25.28	5.732e3	3.987e3	1.560	1.44	NO	10.430	10.430
7	11 PCB-15	25.83	25.62	3.906e4	2.186e4	1.560	1.55	NO	58.663	59.663

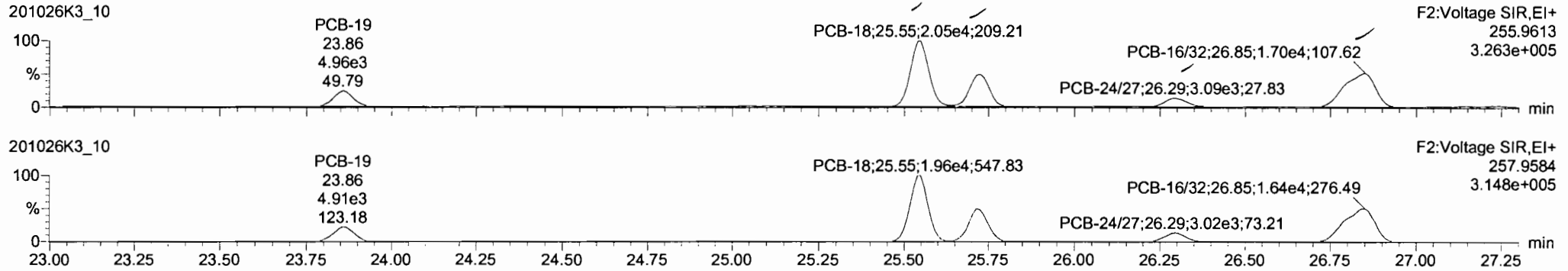


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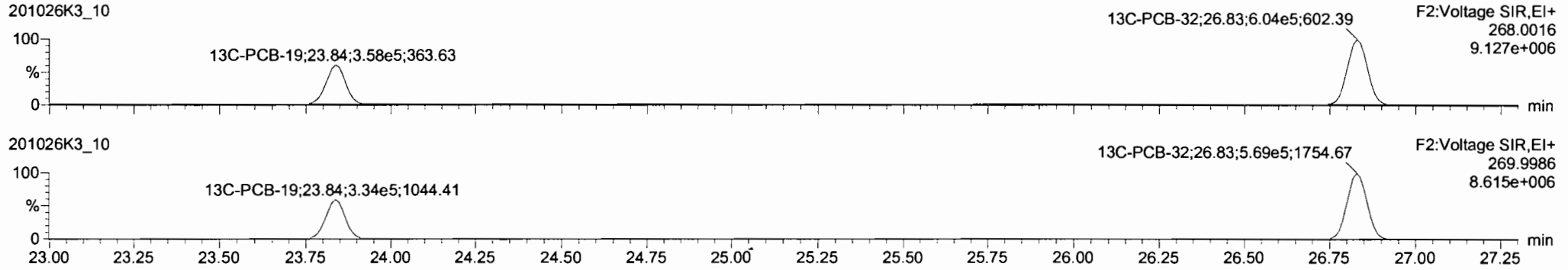
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

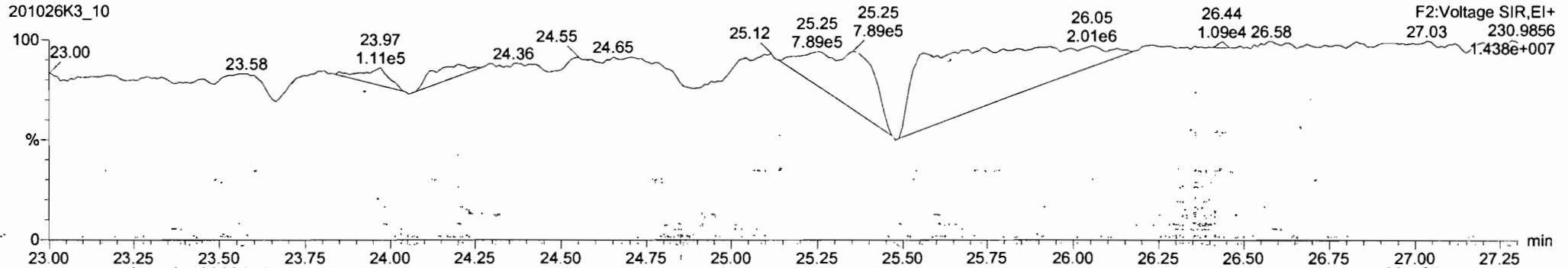
**PCB-19**



**13C-PCB-19**

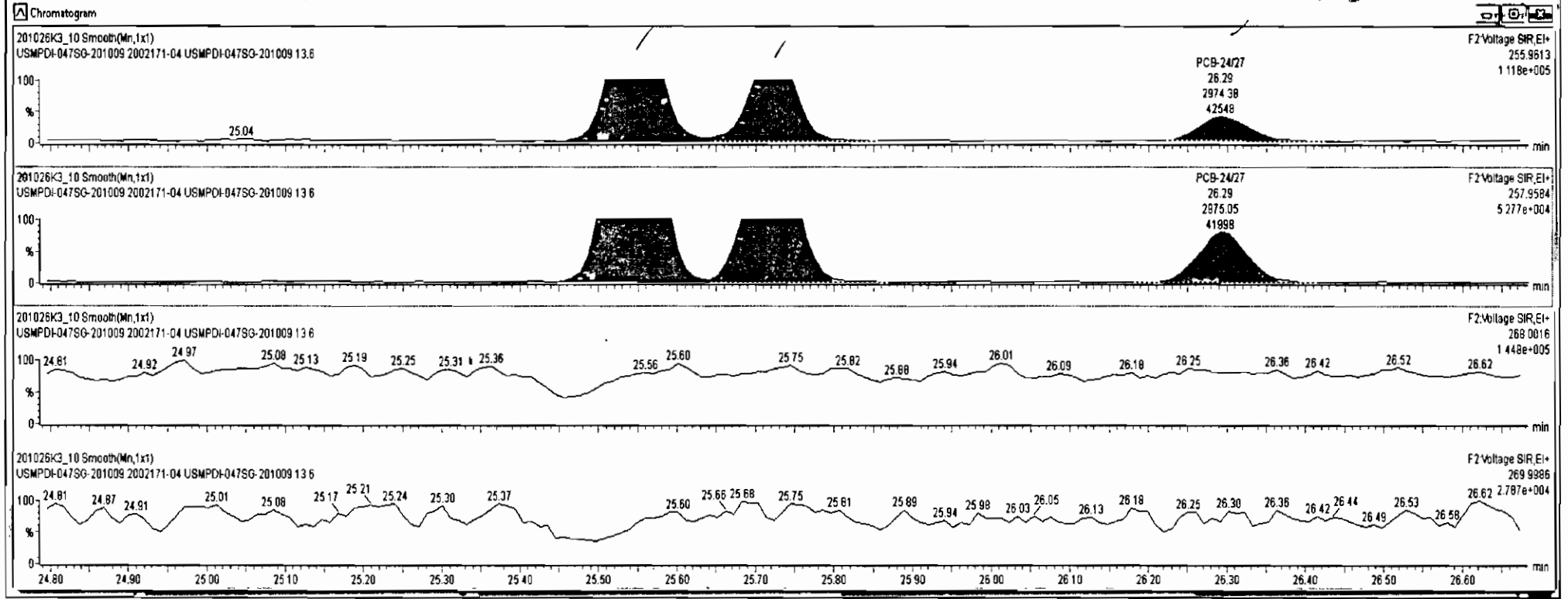


**PFK2b**



#	Name	Resp	RA	nly	RFF	wVol	Pred RT	RT	Pred R..	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0007	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	619.4		7.79	628.9
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2676		10.4	2689
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3242		8.93	3252
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	12 PCB-19	23.87	23.85	4.955e3	4.911e3	1.040	1.01	NO	25.386	25.386
2	14 PCB-18	25.53	25.55	2.054e4	1.963e4	1.040	1.05	NO	82.432	82.432
3	15 PCB-17	25.72	25.72	1.054e4	1.023e4	1.040	1.03	NO	45.968	45.968
4	16 PCB-24/27	26.32	26.29	2.974e3	2.975e3	1.040	1.00	NO	9.2272	9.2272
5	17 PCB-16/32	26.85	26.85	1.897e4	1.843e4	1.040	1.03	NO	60.560	60.560



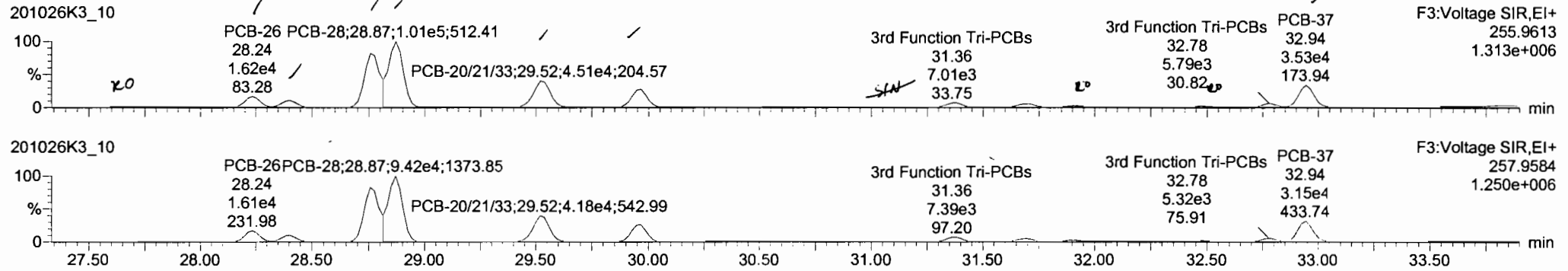


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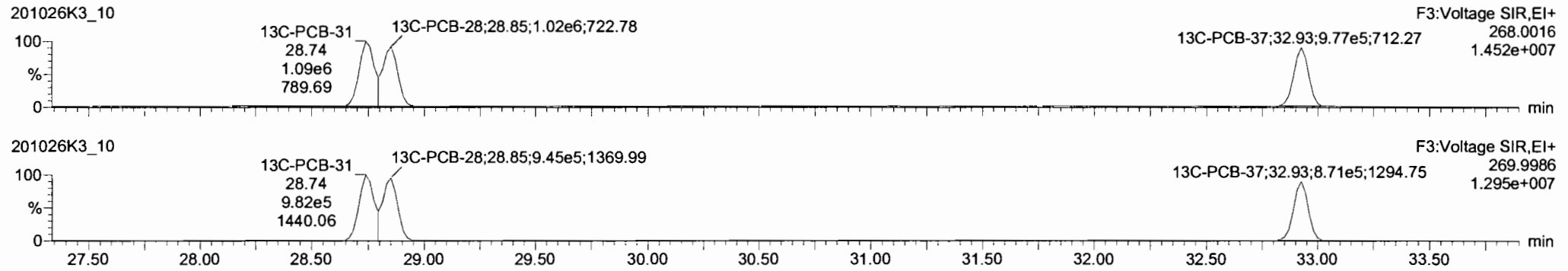
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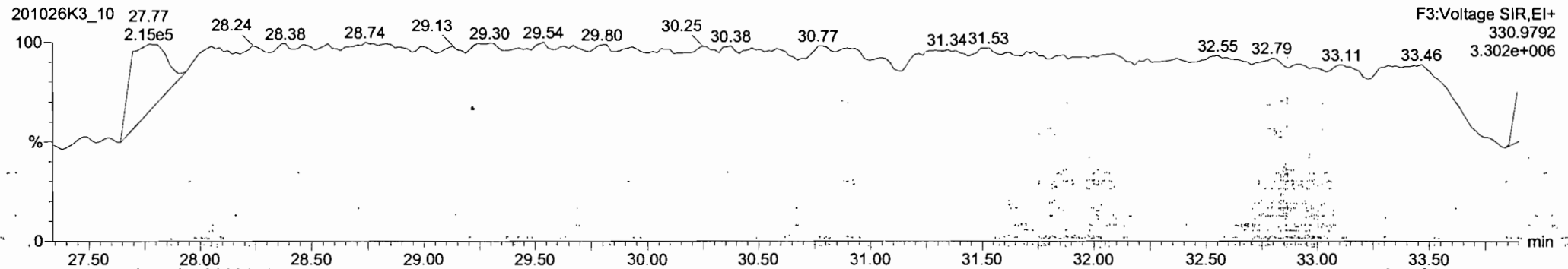
**PCB-34**



**13C-PCB-28**

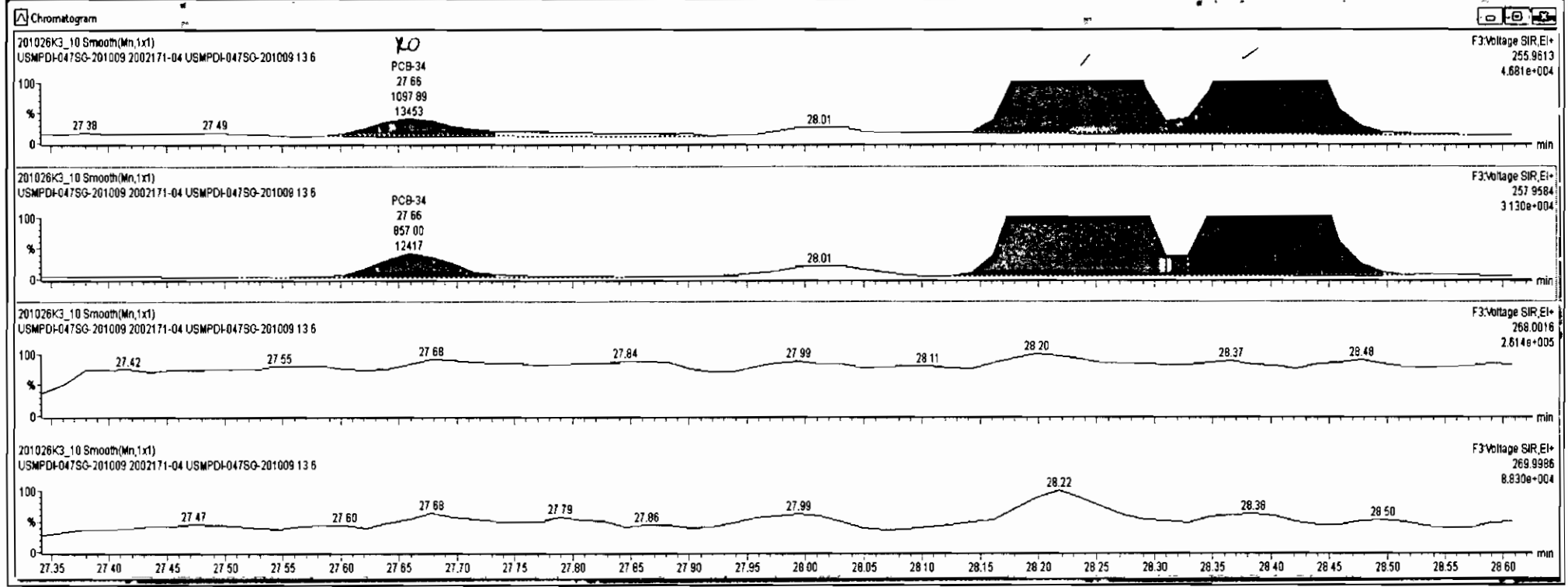


**PFK3d**



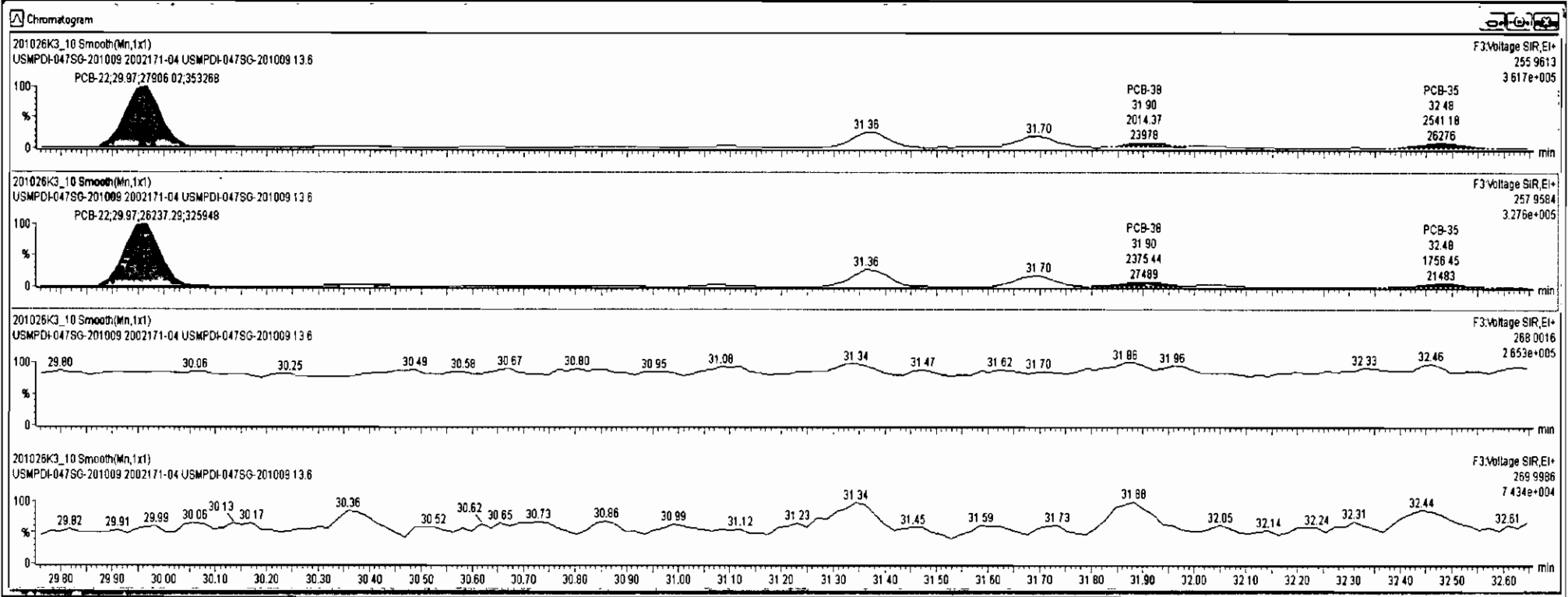
#	Name	Resp	RA	n/y	RF	Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9626	5.080	0.00		0.000		NO	619.4		7.79	628.9
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2676		10.4	2689
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3242		8.93	3252
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	18 PCB-34	27.66	27.66	1.099e3	8.570e2	1.040	1.28	YES	1.8526	0.00000
2	21 PCB-26	28.24	28.24	1.619e4	1.594e4	1.040	1.02	NO	34.097	34.097
3	22 PCB-25	28.39	28.40	1.048e4	9.709e3	1.040	1.08	NO	21.291	21.291
4	23 PCB-31	28.77	28.76	8.160e4	7.801e4	1.040	1.05	NO	154.32	154.32
5	24 PCB-28	28.87	28.87	1.012e5	9.425e4	1.040	1.07	NO	191.03	191.03
6	25 PCB-20(21)33	29.51	29.52	4.507e4	4.181e4	1.040	1.08	NO	92.469	92.469
7	26 PCB-22	29.95	29.97	2.791e4	2.624e4	1.040	1.06	NO	55.780	55.780
8	29 PCB-38	31.95	31.90	2.014e3	2.375e3	1.040	0.85	YES	4.0000	0.00000
9	30 PCB-35	32.50	32.48	2.399e3	1.756e3	1.040	1.37	YES	3.6558	0.00000



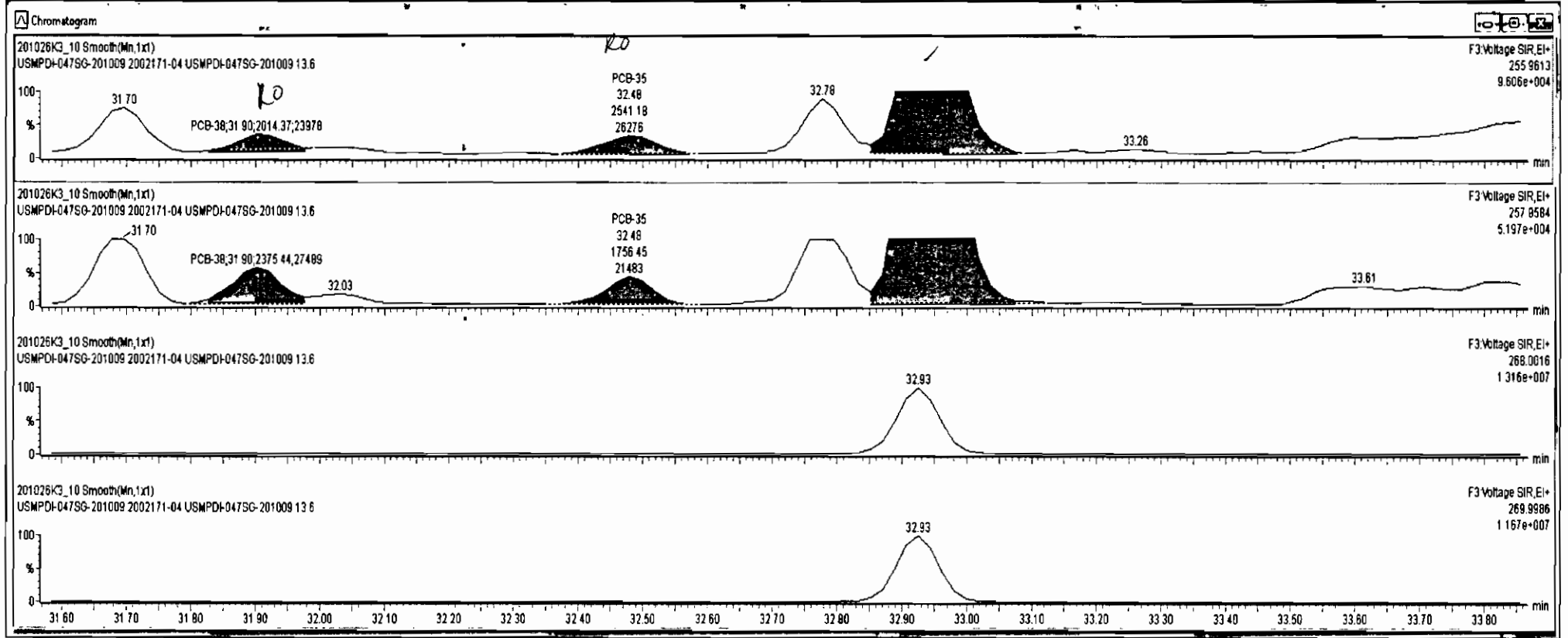
#	Name	Resp	RA	nly	RPF	wVol	Pred RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	618.7		7.79	629.2
228	Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2676		10.4	2689
229	3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3242		8.93	3252
230	4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
2	21 PCB-26	28.24	28.24	1.618e4	1.594e4	1.040	1.02	NO	34.097	34.097
3	22 PCB-25	28.38	28.40	1.048e4	9.708e3	1.040	1.08	NO	21.291	21.291
4	23 PCB-31	28.77	28.76	8.180e4	7.801e4	1.040	1.05	NO	154.32	154.32
5	24 PCB-28	28.87	28.87	1.012e5	9.425e4	1.040	1.07	NO	191.03	191.03
6	25 PCB-20/21/33	29.51	29.52	4.507e4	4.181e4	1.040	1.08	NO	92.469	92.469
7	26 PCB-22	29.95	29.97	2.791e4	2.624e4	1.040	1.06	NO	55.760	55.760
8	29 PCB-38	31.95	31.90	2.014e3	2.375e3	1.040	0.85	YES	4.0000	0.00000
9	30 PCB-35	32.50	32.48	2.541e3	1.756e3	1.040	1.45	YES	3.6568	0.00000
10	31 PCB-37	32.94	32.94	3.542e4	3.161e4	1.040	1.12	NO	70.741	70.741



#	Name	Resp	RA	n/y	RRF	wAdj	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	619.7		7.79	629.2
228	Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2676		10.4	2689
229	3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3242		8.93	3252
230	4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	18 PCB-34	27.86	27.86	1.098e3	8.570e2	1.040	1.28	YES	1.8526	0.00000
2	21 PCB-26	28.24	28.24	1.619e4	1.594e4	1.040	1.02	NO	34.097	34.097
3	22 PCB-25	28.39	28.40	1.046e4	9.709e3	1.040	1.08	NO	21.291	21.291
4	23 PCB-31	28.77	28.76	8.160e4	7.801e4	1.040	1.05	NO	154.32	154.32
5	24 PCB-28	28.87	28.87	1.012e5	9.425e4	1.040	1.07	NO	191.03	191.03
6	25 PCB-2021/33	29.51	29.52	4.507e4	4.181e4	1.040	1.08	NO	92.469	92.469
7	26 PCB-22	29.95	29.97	2.791e4	2.624e4	1.040	1.06	NO	55.760	55.760
8	29 PCB-38	31.95	31.90	2.014e3	2.375e3	1.040	0.85	YES	4.0000	0.00000
9	30 PCB-35	32.50	32.48	2.541e3	1.756e3	1.040	1.45	YES	3.8656	0.00000



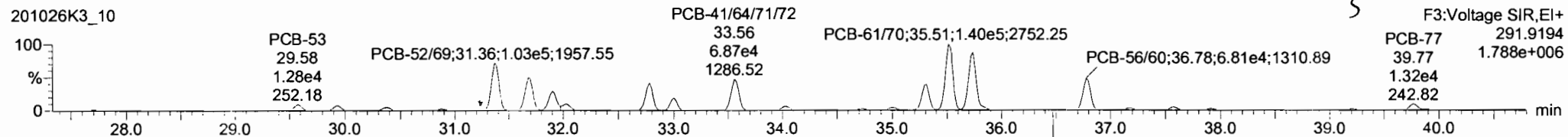
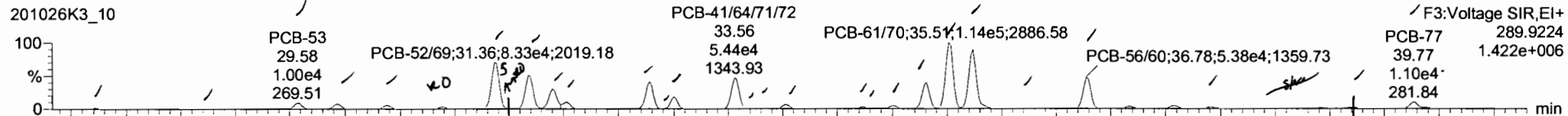
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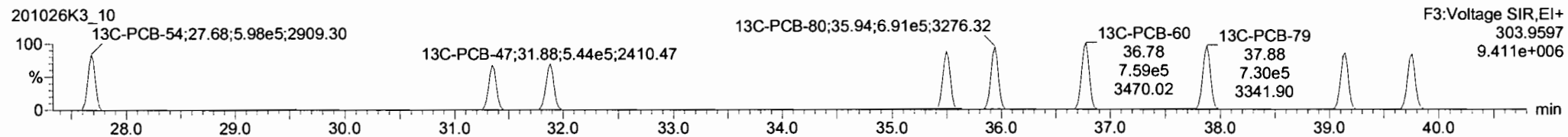
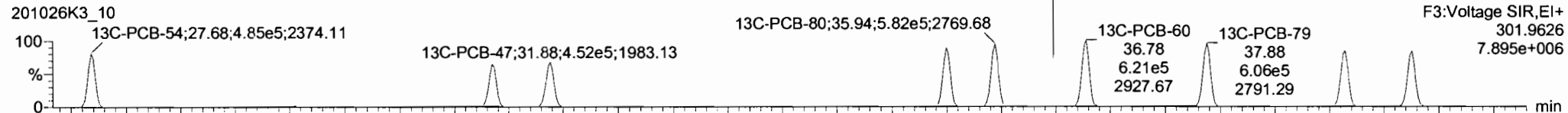
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Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

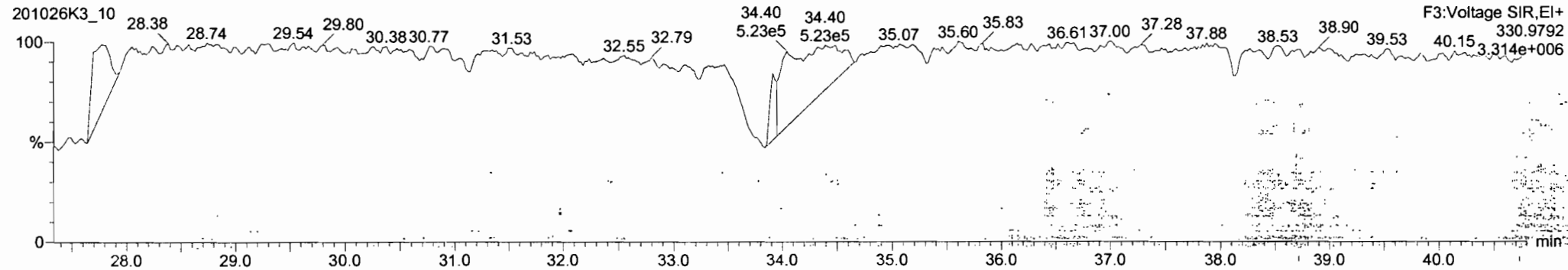
**PCB-54**



**13C-PCB-54**



**PFK3a**

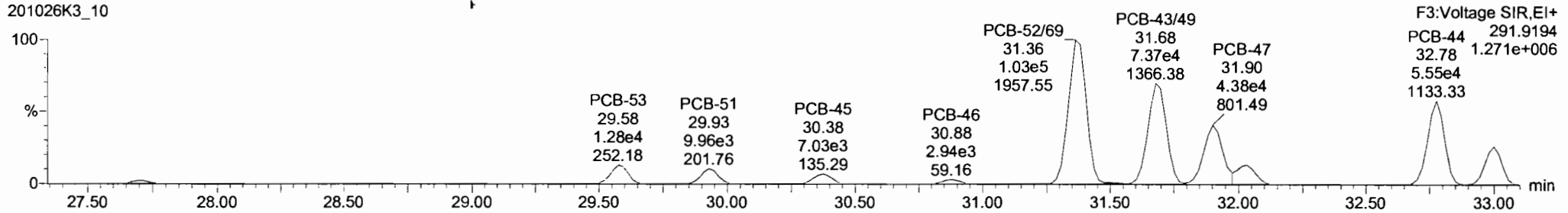
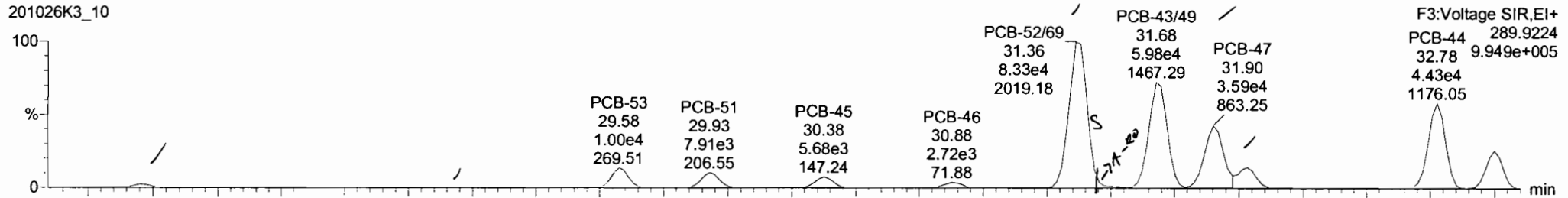


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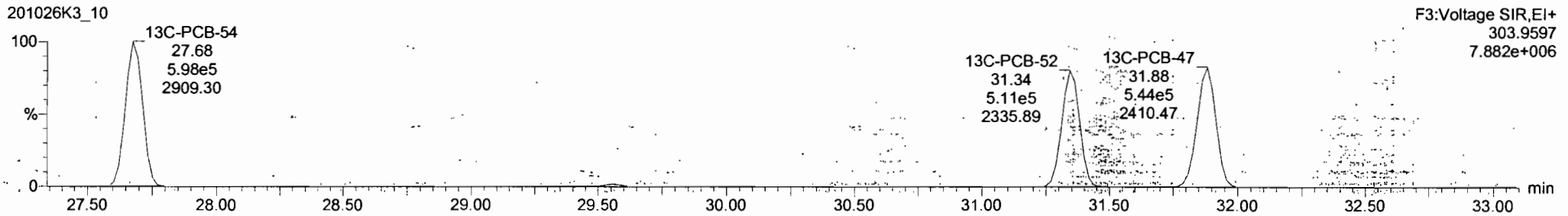
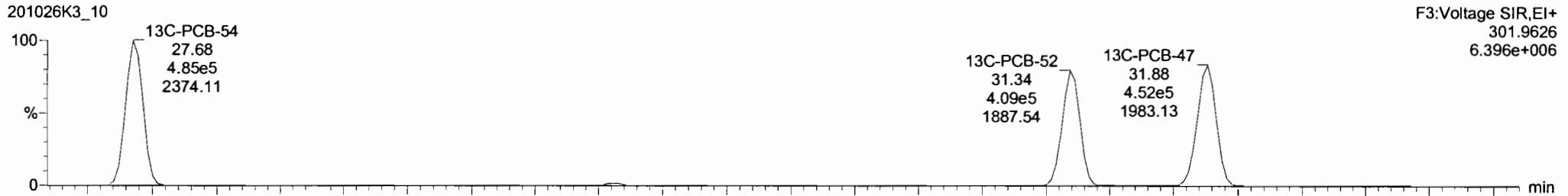
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PCB-50

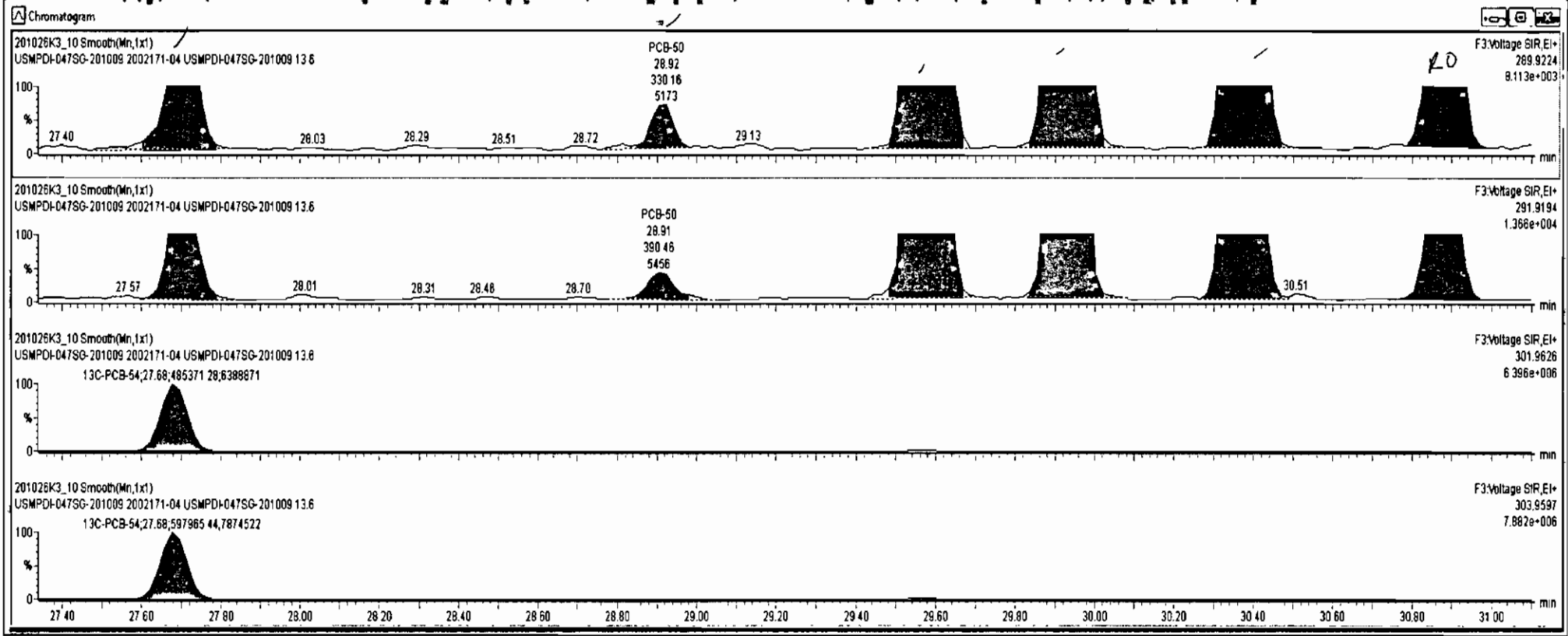


13C-PCB-52



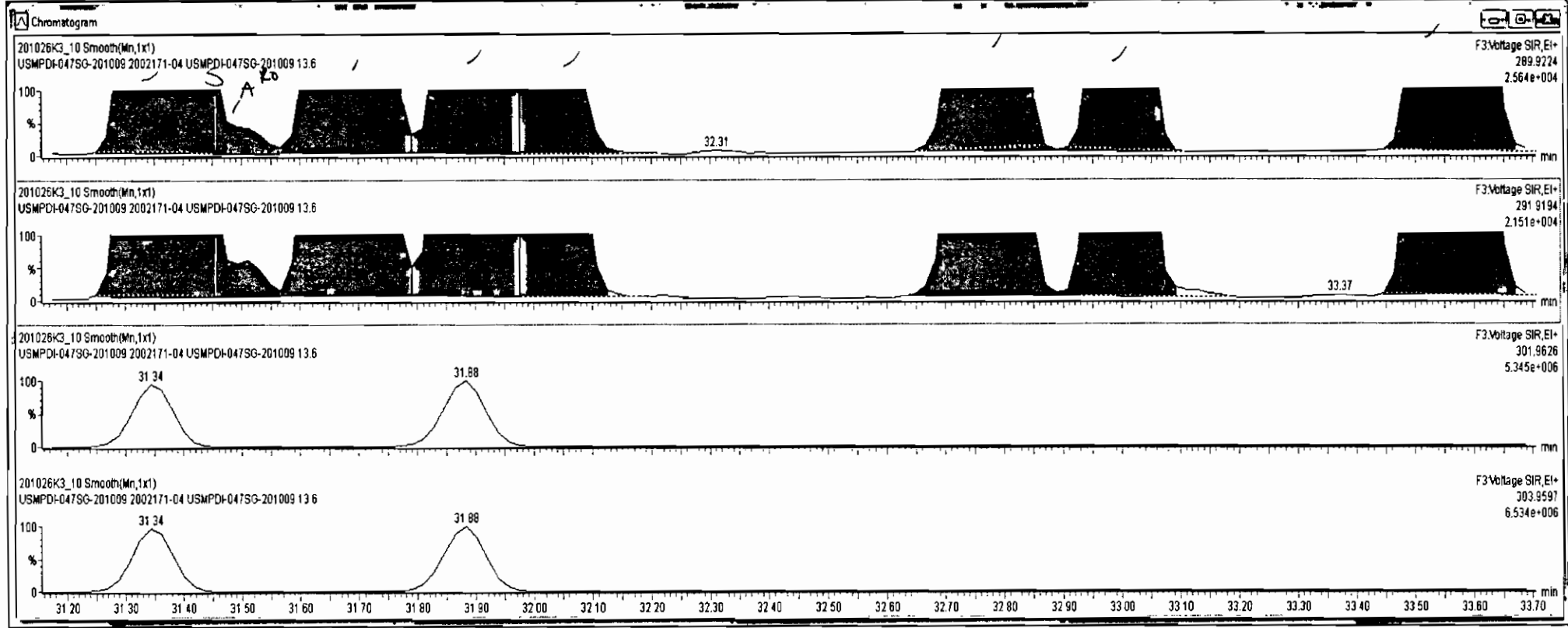
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224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	619.7		7.79	629.2
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2675		10.4	2689
229	229 3rd Function Penta-PCBs				1.2157	5.080	0.00		0.000		NO	3242		6.93	3252
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	32 PCB-54	27.70	27.70	1.531e3	1.969e3	0.770	0.78	NO	5.8915	5.8915
2	33 PCB-50	28.91	28.92	3.302e2	3.305e2	0.770	0.85	NO	1.4889	1.4889
3	34 PCB-53	29.58	29.58	1.001e4	1.273e4	0.770	0.79	NO	48.840	48.840
4	35 PCB-51	29.93	29.93	7.876e3	9.927e3	0.770	0.79	NO	35.772	35.772
5	36 PCB-45	30.38	30.38	5.882e3	7.019e3	0.770	0.81	NO	31.667	31.667
6	37 PCB-46	30.88	30.88	2.721e3	2.943e3	0.770	0.92	YES	13.420	0.00000
7	38 PCB-52/69	31.38	31.36	8.239e4	1.025e5	0.770	0.80	NO	339.25	339.25
8	40 PCB-43/49	31.57	31.68	5.983e4	7.369e4	0.770	0.81	NO	281.25	281.25
9	41 PCB-47	31.90	31.90	3.592e4	4.381e4	0.770	0.82	NO	171.12	171.12



#	Name	Resp	RA	ivly	RRF	wtWol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.8		3.32	223.8
227	227 3rd Function Tri-PCBs				0.9826	5.080	0.00		0.000		NO	619.7		7.79	619.7
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2876		10.4	2893
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3242		8.93	3252
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.3		2.25	199.3

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	ivly	EMPC	Conc.
1	32 PCB-54	27.70	27.70	1.531e3	1.969e3	0.770	0.78	NO	5.8915	5.8915
2	33 PCB-50	28.91	28.92	3.302e2	3.905e2	0.770	0.85	NO	1.4889	1.4889
3	34 PCB-53	29.58	29.58	1.001e4	1.273e4	0.770	0.79	NO	48.840	48.840
4	35 PCB-51	29.93	29.93	7.876e3	9.927e3	0.770	0.79	NO	35.772	35.772
5	36 PCB-45	30.38	30.38	5.682e3	7.019e3	0.770	0.81	NO	31.667	31.667
6	37 PCB-46	30.88	30.88	2.721e3	2.943e3	0.770	0.82	YES	13.420	0.00000
7	38 PCB-5269	31.36	31.36	8.248e4	1.024e5	0.770	0.81	NO	339.24	339.24
8	39 PCB-73	31.49	31.45	1.259e3	1.375e3	0.770	0.92	YES	3.6105	0.00000
9	40 PCB-4349	31.67	31.68	5.903e4	7.369e4	0.770	0.81	NO	281.25	281.25





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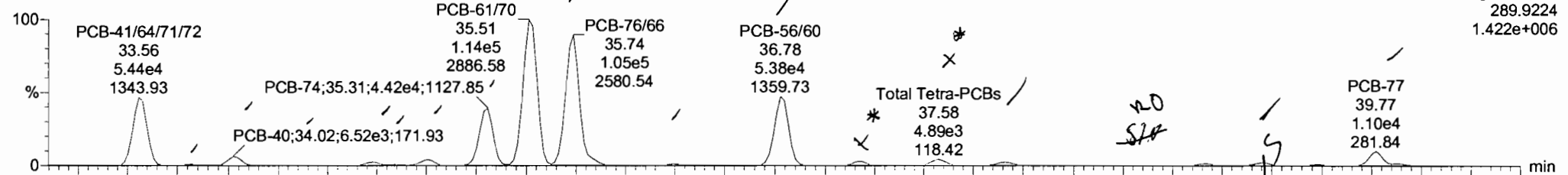
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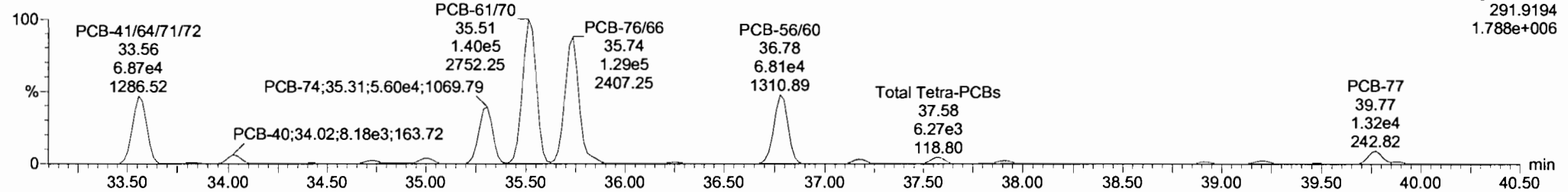
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PCB-68

201026K3\_10

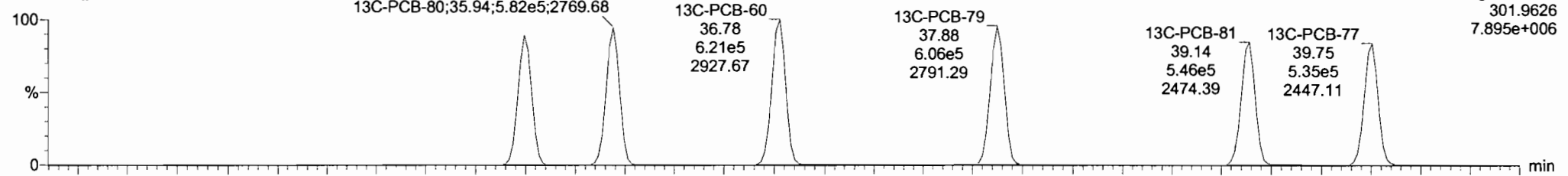


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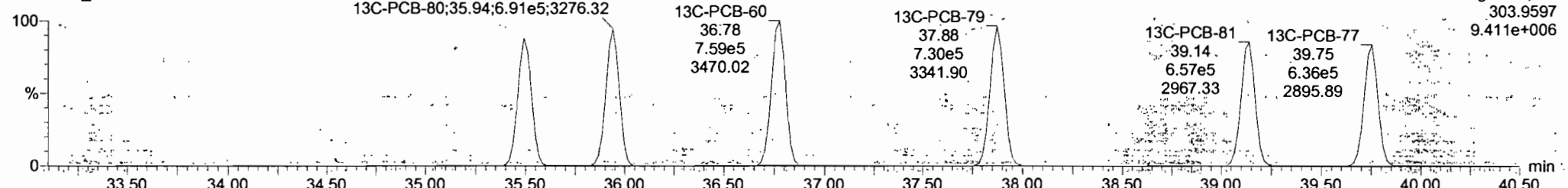


13C-PCB-60

201026K3\_10

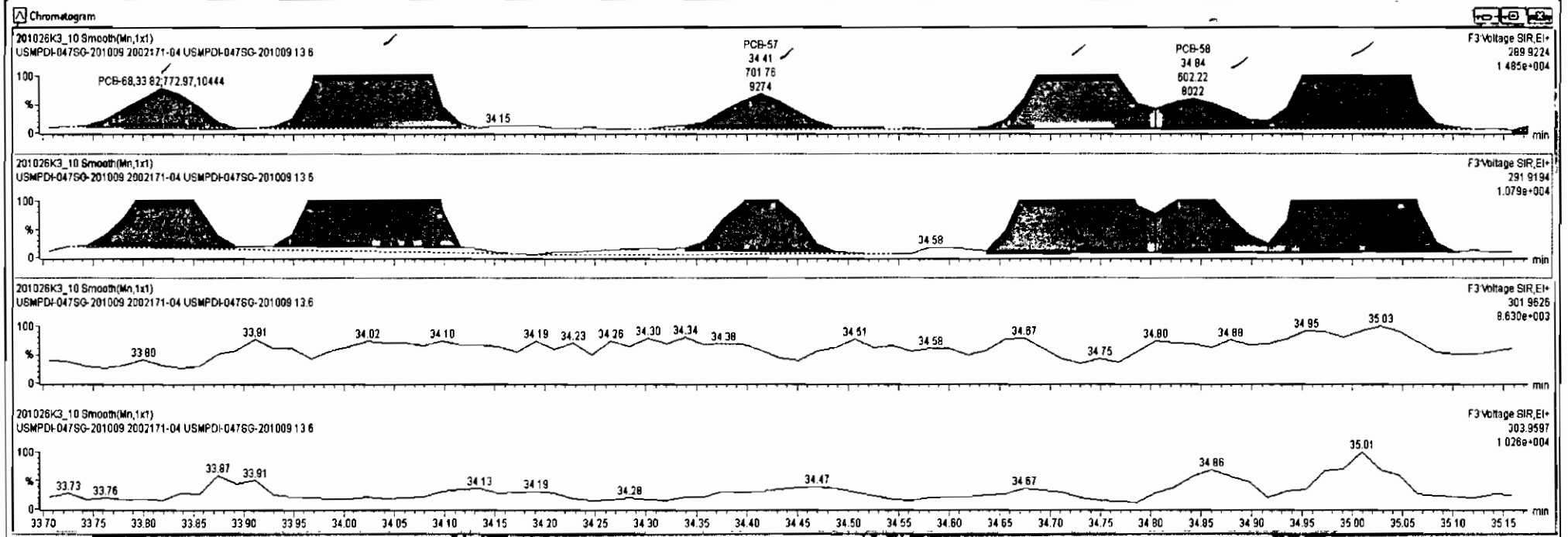


201026K3\_10



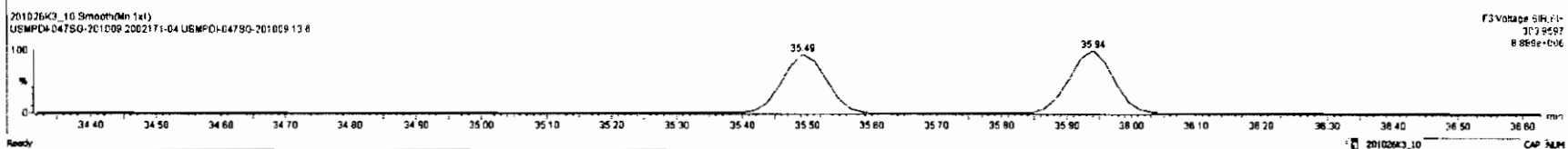
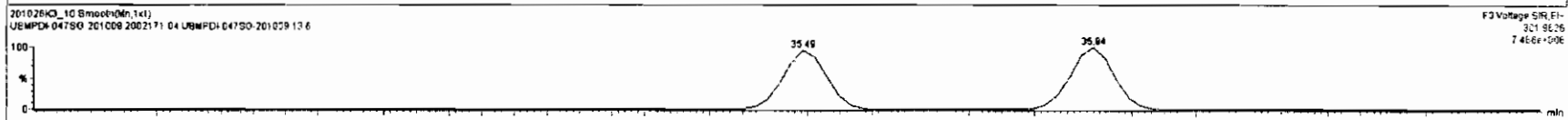
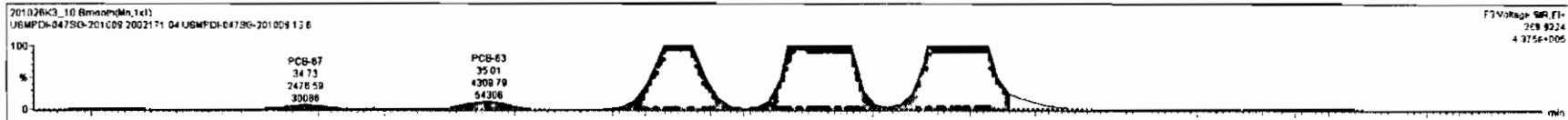
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224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.80	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9628	5.080	0.00		0.000		NO	619.7		7.79	626.2
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2674		10.4	2681
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3242		8.93	3252
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	32 PCB-54	27.70	27.70	1.531e3	1.969e3	0.770	0.78	NO	5.8915	5.8915
2	33 PCB-50	28.91	28.92	3.302e2	3.905e2	0.770	0.85	NO	1.4889	1.4889
3	34 PCB-53	29.58	29.58	1.001e4	1.273e4	0.770	0.79	NO	48.840	48.840
4	35 PCB-51	29.53	29.93	7.876e3	9.927e3	0.770	0.79	NO	35.772	35.772
5	36 PCB-45	30.38	30.38	5.882e3	7.019e3	0.770	0.81	NO	31.667	31.667
6	37 PCB-46	30.88	30.88	2.721e3	2.943e3	0.770	0.82	YES	13.420	0.00000
7	38 PCB-5268	31.38	31.36	8.220e4	1.022e5	0.770	0.80	NO	338.51	338.51
8	39 PCB-73	31.49	31.45	1.165e3	1.211e3	0.770	0.96	YES	3.1780	0.00000
9	40 PCB-4349	31.57	31.68	5.983e4	7.369e4	0.770	0.81	NO	281.25	281.25



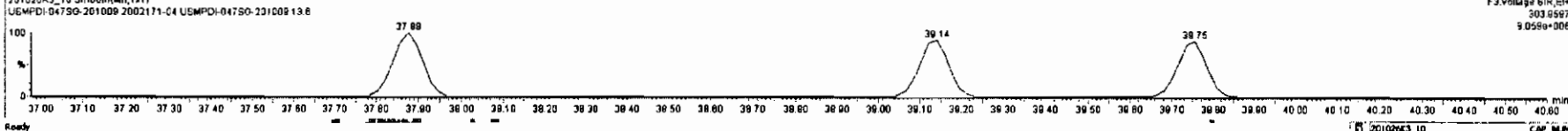
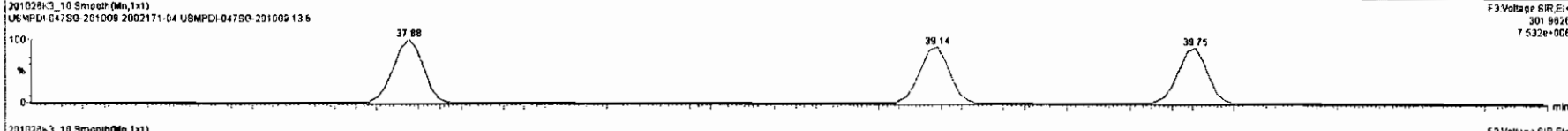
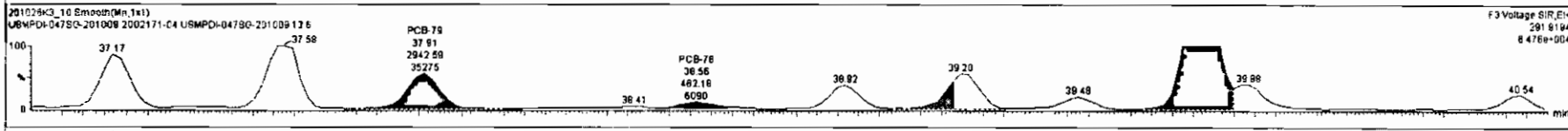
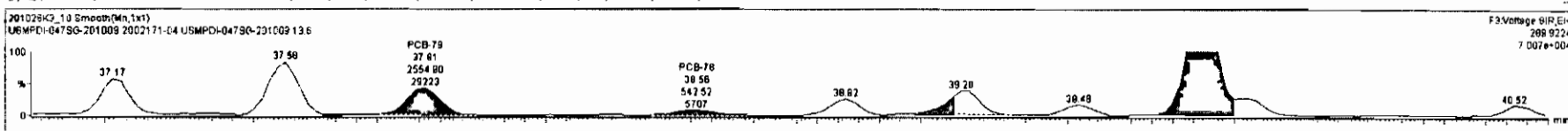
#	Name	Resp	RA	nly	RF	wtVcl	Pred.RT	RT	Pred.R	RT	RT Fld	Conc	%Rec	CL	EMPC
223	223 13C-PCB-178	4.23e5	0.47	NO	1.0508	5.080	45.98	45.97	0.823	0.823	NO	1829	92.9	1.26	
224	224 Total Mono-PCBs				1.1855	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function In-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tr-PCBs				0.9828	5.080	0.00		0.000		NO	819.7		7.79	819.2
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2655		10.4	2673
229	229 Total Function Penta-PCBs				1.1947	5.080	0.00		0.000		NO	1041		8.81	1057

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	IVY	EMPC	Conc
1	32 PCB-54	27.70	27.70	1.531e3	1.989e3	0.770	0.78	NO	5.8815	5.8815
2	33 PCB-50	28.81	28.82	3.302e2	3.905e2	0.770	0.85	NO	1.4889	1.4889
3	34 PCB-53	28.98	28.98	1.001e4	1.273e4	0.770	0.78	NO	48.840	48.840
4	35 PCB-51	29.83	29.83	7.827e3	9.827e3	0.770	0.78	NO	35.772	35.772
5	36 PCB-45	30.36	30.36	5.882e3	7.818e3	0.770	0.81	NO	31.867	31.867
6	37 PCB-46	30.88	30.88	2.721e3	2.843e3	0.770	0.92	YES	13.420	0.00000
7	38 PCB-52/88	31.38	31.38	8.220e4	1.023e5	0.770	0.80	NO	338.51	338.51
8	39 PCB-73	31.49	31.45	1.185e3	1.211e3	0.770	0.96	YES	3.1780	0.00000



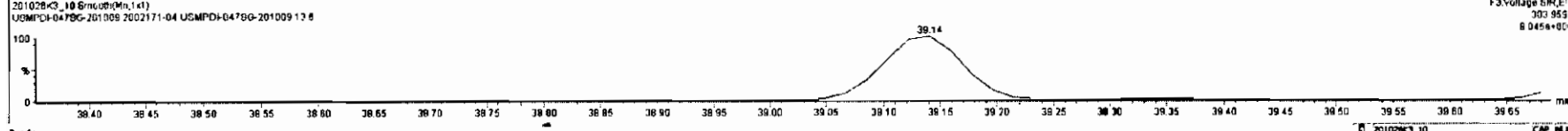
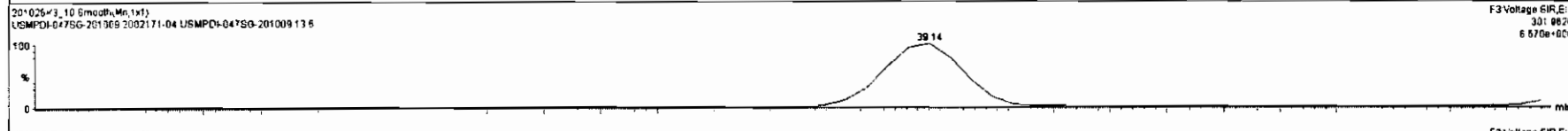
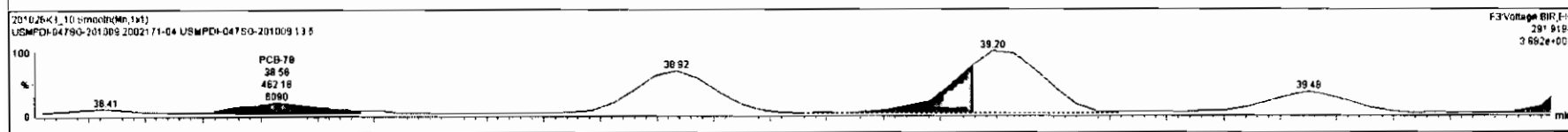
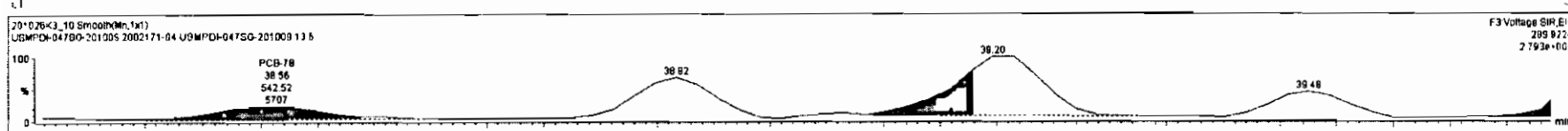
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220	13C-PCB-178	4.23e5	0.47	NO	1.0506	5.080	45.98	45.97	0.923	0.923	NO	1828	82.9	1.36	
224	Total Mono-PCBs				1.1885	5.080	0.00		0.000		NO	30.30		0.786	30.20
225	Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.8		3.32	223.8
227	3rd Function Tri-PCBs				0.9826	5.080	0.00		0.000		NO	619.7		7.79	629.2
228	Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2854		10.4	2671
229	Total 5th Function Penta-PCBs				1.1442	4.980	0.00		0.000		NO	1241		8.93	1247

#	Name	Pred RT	RT	Int Resp	w3 Resp	** Ratio (Pred)	RA	nly	EMPC	Conc
1	32 PCB-54	27.70	27.70	1.531e3	1.889e3	0.770	0.78	NO	5.8915	5.8915
2	33 PCB-50	28.91	28.82	3.302e2	3.905e2	0.770	0.86	NO	1.4889	1.4889
3	34 PCB-53	29.58	29.58	1.001e4	1.273e4	0.770	0.79	NO	48.840	48.840
4	35 PCB-51	29.93	29.83	7.878e3	9.927e3	0.770	0.78	NO	36.772	35.772
5	36 PCB-45	30.38	30.38	5.682e3	7.019e3	0.770	0.81	NO	31.667	31.667
6	37 PCB-46	30.88	30.88	2.721e3	2.843e3	0.770	0.92	YES	13.420	0.00000
7	38 PCB-52/69	31.38	31.36	8.220e4	1.023e5	0.770	0.80	NO	338.51	338.51
8	39 PCB-73	31.49	31.45	1.185e3	1.211e3	0.770	0.96	YES	3.1780	0.00000



#	Name	Resp	RA	inj	RRF	wtVol	Prod.RT	RT	Prod.RT	RR1	RR1 Fail	Conc.	%Rec	DL	EMPC
223	223 13C-PCB-178	4.27e5	0.47	NO	1.0526	5.080	45.98	45.97	0.923	0.923	NO	1829	92.9	1.36	
224	224 Total Mono-PCBs				1.1855	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	618.7		7.78	629.2
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2654		10.4	2671
229	229 Total Function Tetra-PCBs				1.1647	5.080	0.00		0.000		NO	12411		8.821	12471

#	Name	Prod.RT	RT	wt Resp	m2 Resp	1st Ratio (Prod)	RA	inj	EMPC	Conc.
23	58 PCB-7668	35.70	35.74	1.008e5	1.248e5	0.770	0.81	NO	317.85	317.85
24	59 PCB-56	36.30	36.26	1.209e3	1.619e3	0.770	0.75	NO	3.7415	3.7415
25	50 PCB-6480	36.79	36.78	5.382e4	6.828e4	0.770	0.79	NO	185.72	185.72
26	60 PCB-78	37.92	37.91	2.555e3	2.943e3	0.770	0.87	NO	7.4704	7.4704
27	61 PCB-76	38.62	38.56	5.475e2	4.822e2	0.770	1.17	YES	1.1781	0.00000
28	62 PCB-81	39.18	39.18	6.354e2	8.077e2	0.770	0.79	NO	2.2588	2.2588
28	63 PCB-77	38.77	39.77	1.103e4	1.328e4	0.770	0.83	NO	35.828	35.828

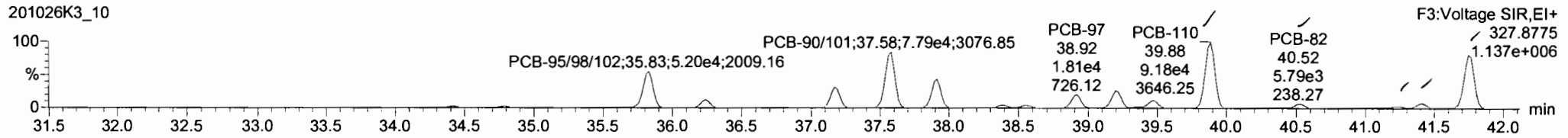
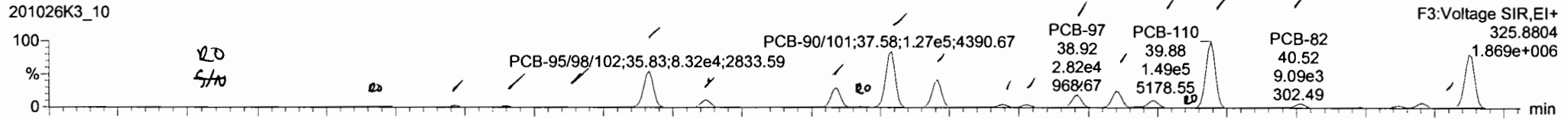


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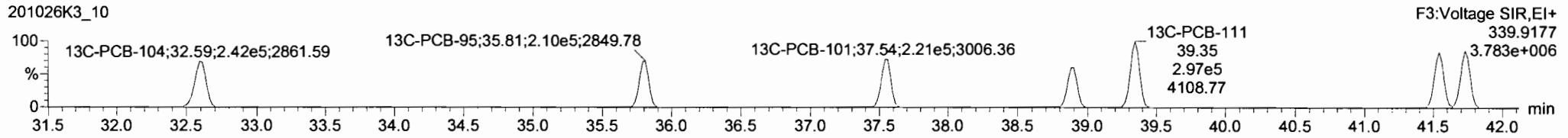
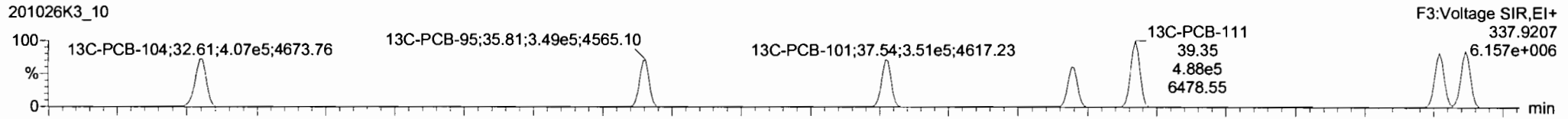
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Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

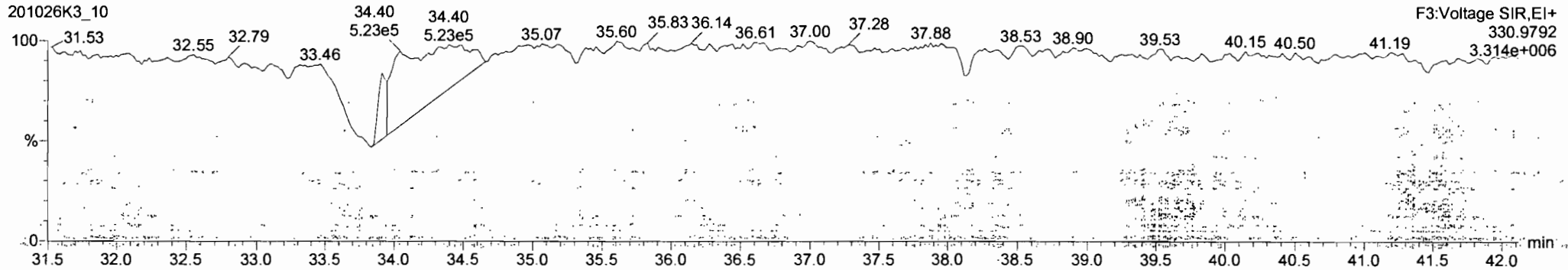
**PCB-104**



**13C-PCB-104**



**PFK3b**



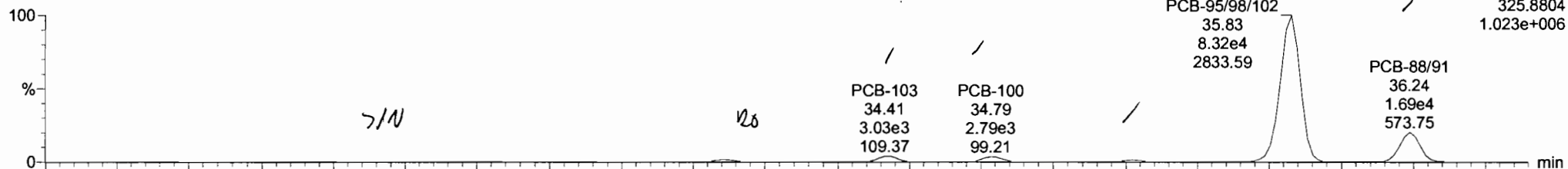
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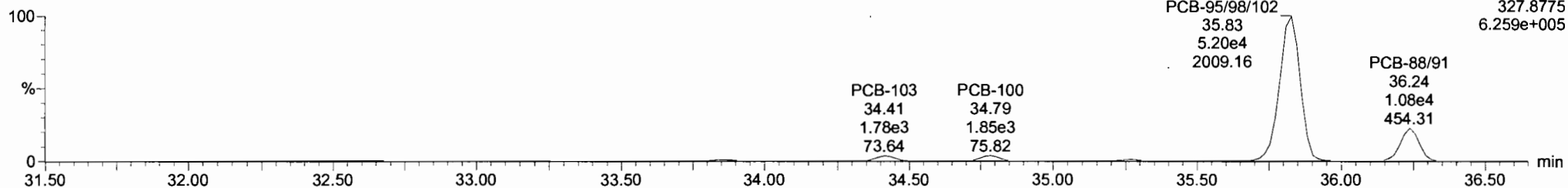
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PCB-96

201026K3\_10

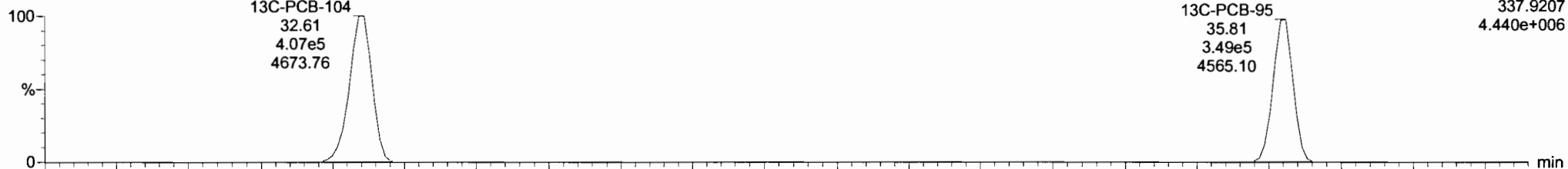


201026K3\_10

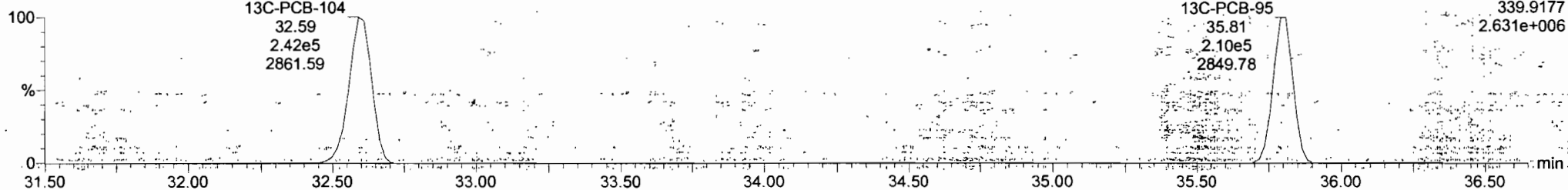


13C-PCB-95

201026K3\_10



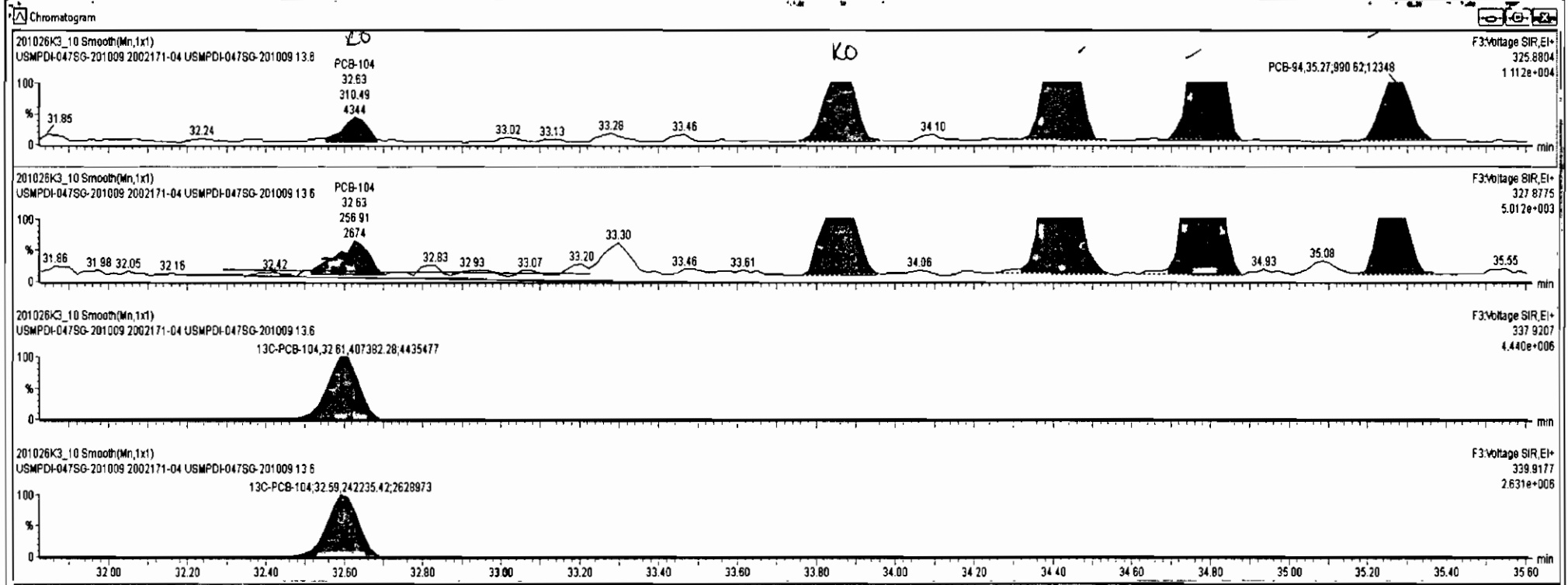
201026K3\_10



201026K3\_10 - 2002171-04 USMPDI-047SG-201009 13.6 - USMPDI-047SG-201009

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.RT	RT	RRT	RRT.Fall	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000			NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000			NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000			NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000			NO	619.7		7.78	629.2
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000			NO	267.4		10.4	2690
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000			NO	324.2		8.93	325.2
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000			NO	199.9		2.25	199.9

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	64 PCB-104	32.63	32.63	3.105e2	2.588e2	1.560	1.21	YES	1.3761	0.00000
2	65 PCB-96	33.94	33.86	1.202e3	6.093e2	1.560	1.97	YES	4.0971	0.00000
3	66 PCB-103	34.49	34.41	3.008e3	1.780e3	1.560	1.71	NO	15.430	15.430
4	67 PCB-100	34.87	34.79	2.813e3	1.820e3	1.560	1.55	NO	14.726	14.726
5	68 PCB-94	35.29	35.27	9.906e2	5.819e2	1.560	1.70	NO	5.8365	5.8365
6	69 PCB-95/98/102	35.76	35.83	8.323e4	5.201e4	1.560	1.80	NO	395.43	395.43
7	71 PCB-96/91	36.24	36.24	1.890e4	1.062e4	1.560	1.56	NO	91.702	91.702
8	73 PCB-94/82	37.17	37.17	4.406e4	2.758e4	1.560	1.80	NO	242.01	242.01
9	74 PCB-98	37.36	37.35	1.197e3	8.107e2	1.560	1.96	YES	4.8637	0.00000





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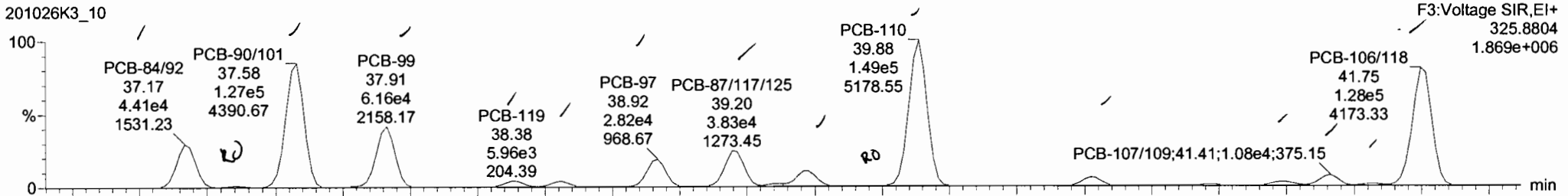
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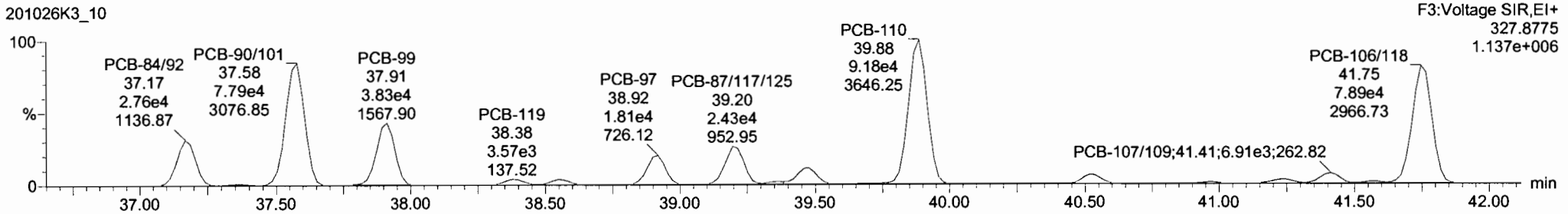
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**PCB-119**

201026K3\_10

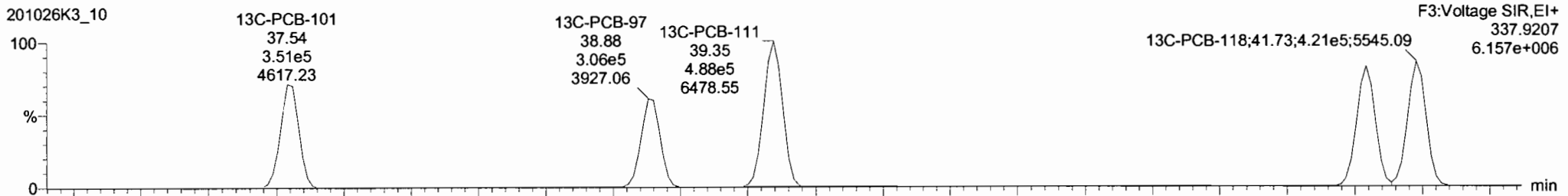


201026K3\_10

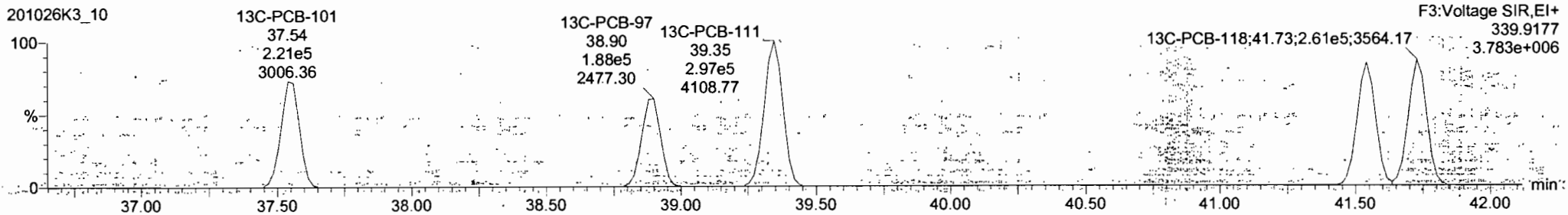


**13C-PCB-111**

201026K3\_10

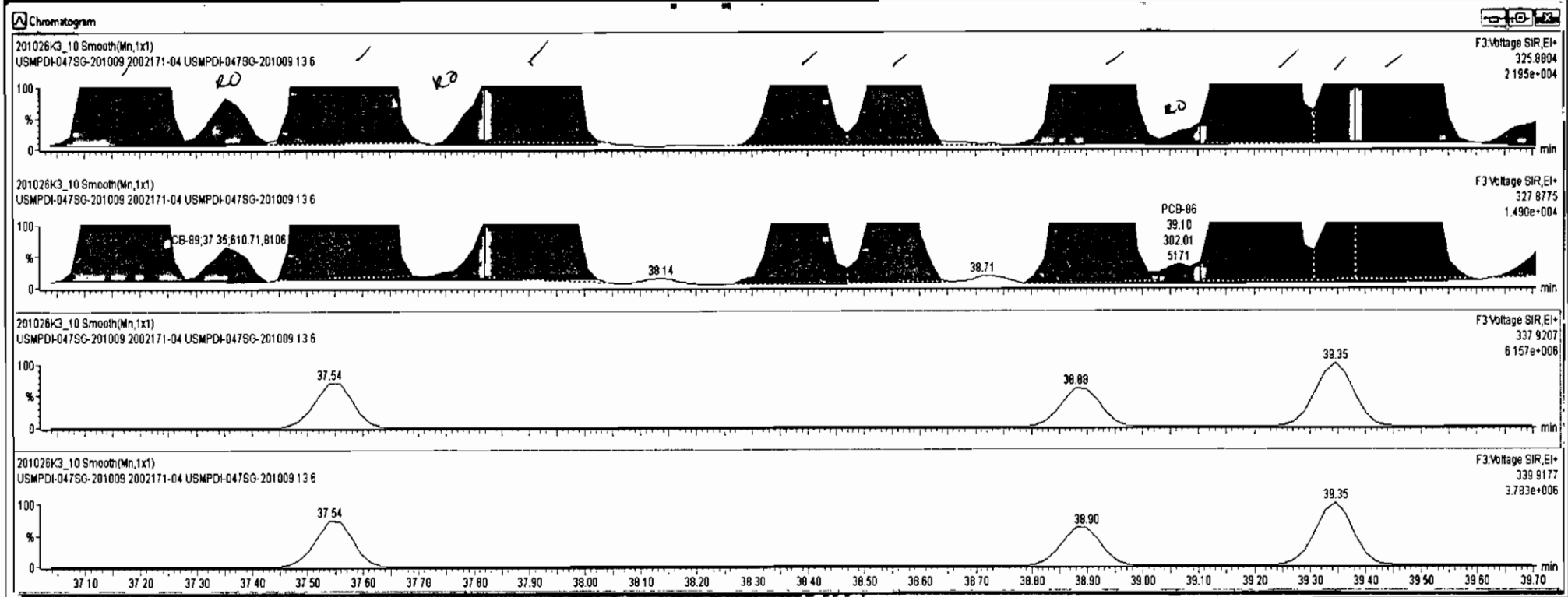


201026K3\_10



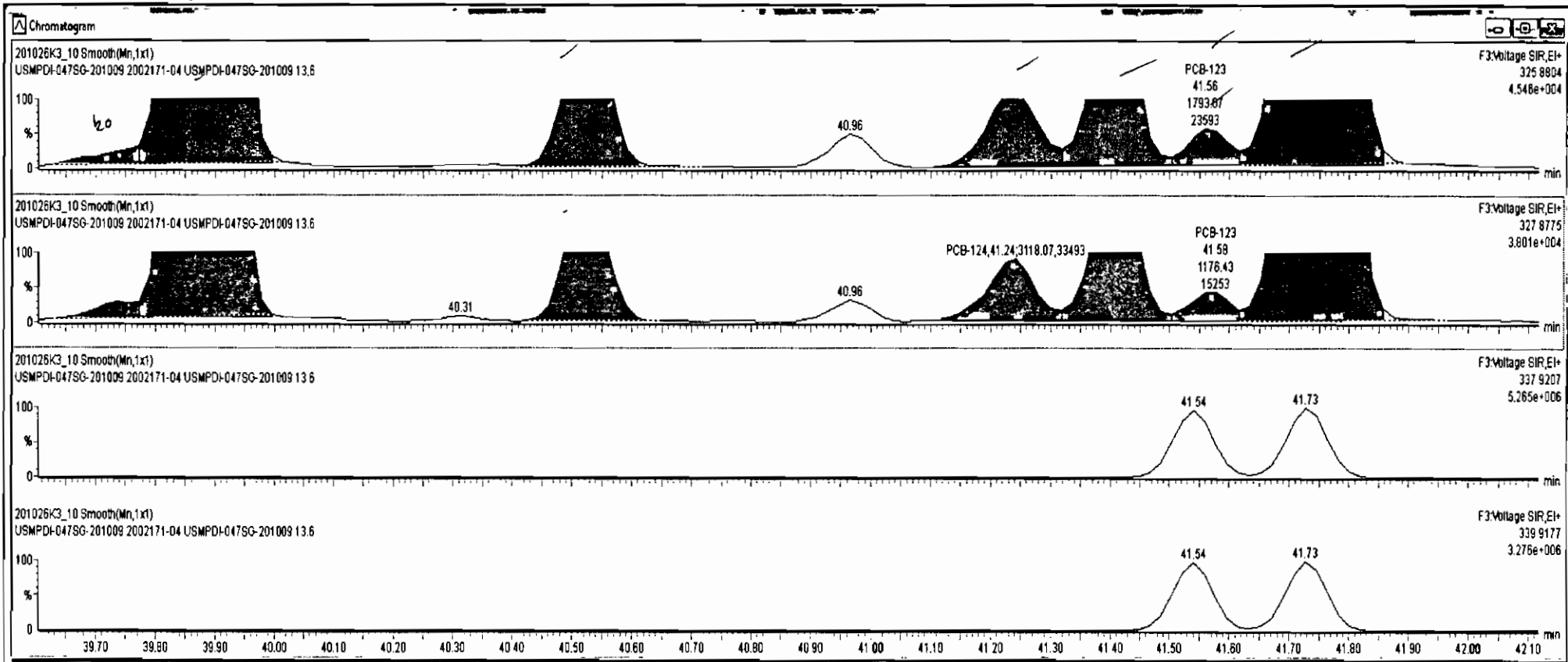
#	Name	Resp	RA	nly	RPF	wVol	Pred RT	RT	Pred R...	RRT <sup>1</sup>	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	619.7		7.79	629.2
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2688		10.4	2687
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3240		8.93	3258
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	64 PCB-104	32.63	32.63	3.105e2	2.589e2	1.560	1.21	YES	1.3761	0.00000
2	65 PCB-96	33.94	33.86	1.202e3	6.093e2	1.560	1.97	YES	4.0971	0.00000
3	66 PCB-103	34.49	34.41	3.008e3	1.780e3	1.560	1.71	NO	15.430	15.430
4	67 PCB-100	34.87	34.79	2.813e3	1.820e3	1.560	1.55	NO	14.726	14.726
5	68 PCB-94	35.29	35.27	9.906e2	5.819e2	1.560	1.70	NO	5.8385	5.8385
6	69 PCB-95/98/102	35.76	35.83	8.323e4	5.201e4	1.560	1.60	NO	395.43	395.43
7	71 PCB-88/91	36.24	36.24	1.690e4	1.082e4	1.560	1.56	NO	91.702	91.702
8	73 PCB-84/92	37.17	37.17	4.406e4	2.758e4	1.560	1.60	NO	242.01	242.01
9	74 PCB-89	37.36	37.35	1.197e3	6.107e2	1.560	1.96	YES	4.8637	0.00000



#	Name	Resp	RA	nly	RRF	wAdj	Pred RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0607	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	619.7		7.79	629.2
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2689		10.4	2687
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3241		8.83	3259
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	64 PCB-104	32.63	32.63	3.105e2	2.589e2	1.560	1.21	YES	1.3761	0.00000
2	65 PCB-96	33.94	33.86	1.202e3	6.093e2	1.560	1.97	YES	4.0971	0.00000
3	66 PCB-103	34.49	34.41	3.006e3	1.760e3	1.560	1.71	NO	15.430	15.430
4	67 PCB-100	34.87	34.79	2.813e3	1.820e3	1.560	1.55	NO	14.726	14.726
5	68 PCB-94	35.29	35.27	9.906e2	5.819e2	1.560	1.70	NO	5.8065	5.8065
6	69 PCB-95/98/102	35.76	35.63	8.323e4	5.201e4	1.560	1.60	NO	395.43	395.43
7	71 PCB-86/91	36.24	36.24	1.690e4	1.082e4	1.560	1.56	NO	91.702	91.702
8	73 PCB-84/92	37.17	37.17	4.406e4	2.758e4	1.560	1.80	NO	242.01	242.01
9	74 PCB-89	37.36	37.35	1.197e3	6.107e2	1.560	1.96	YES	4.8637	0.00000



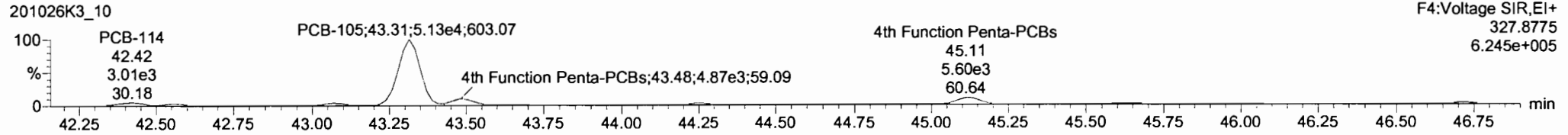
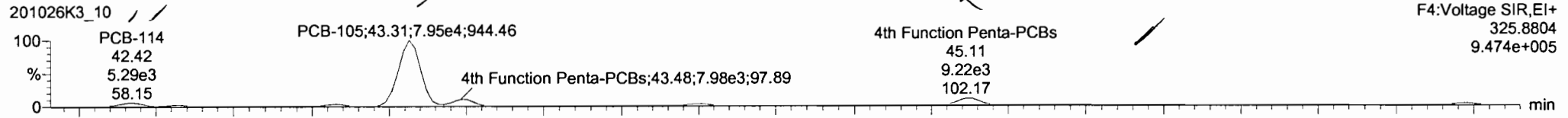
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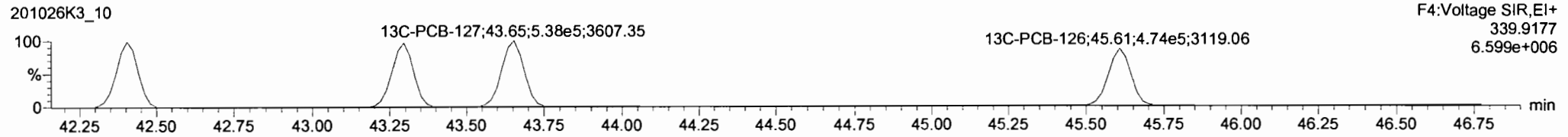
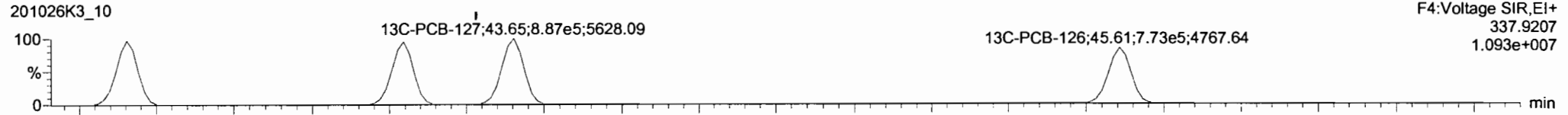
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Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

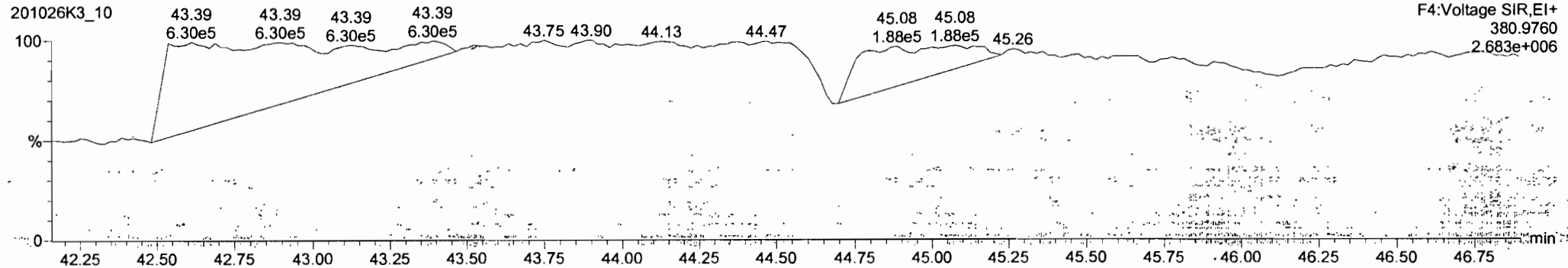
**PCB-114**



**13C-PCB-114**

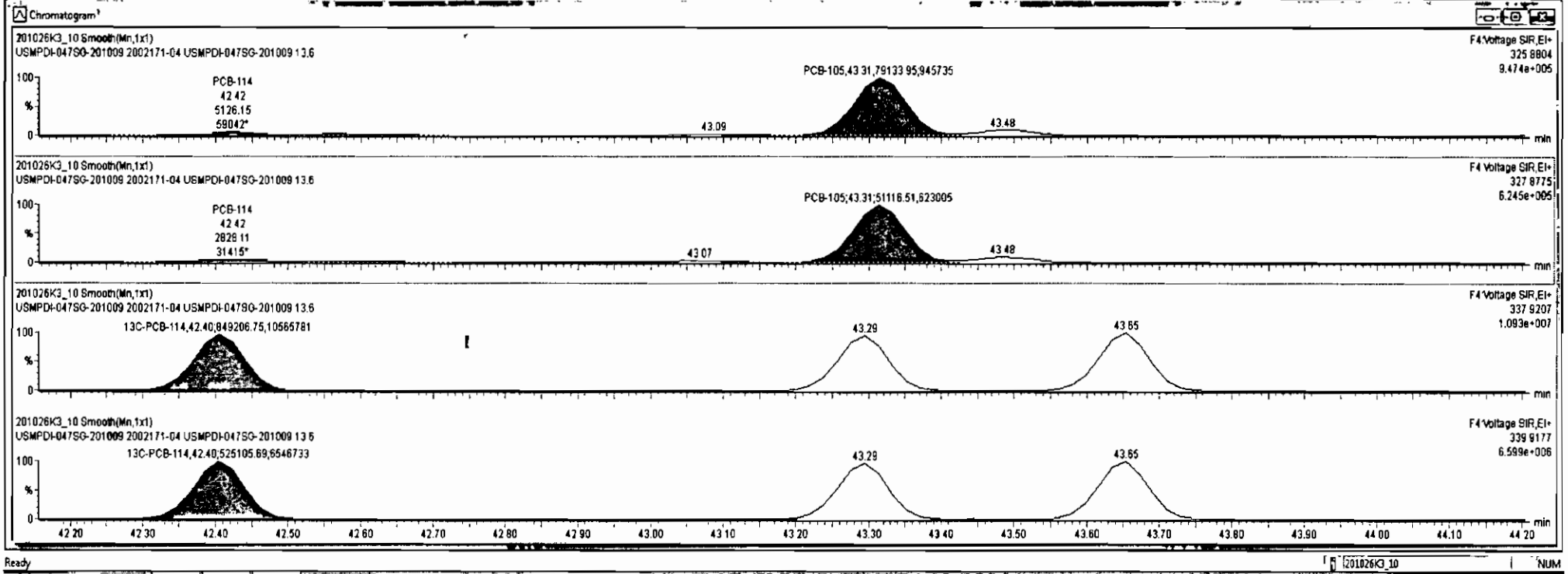


**PFK4a**



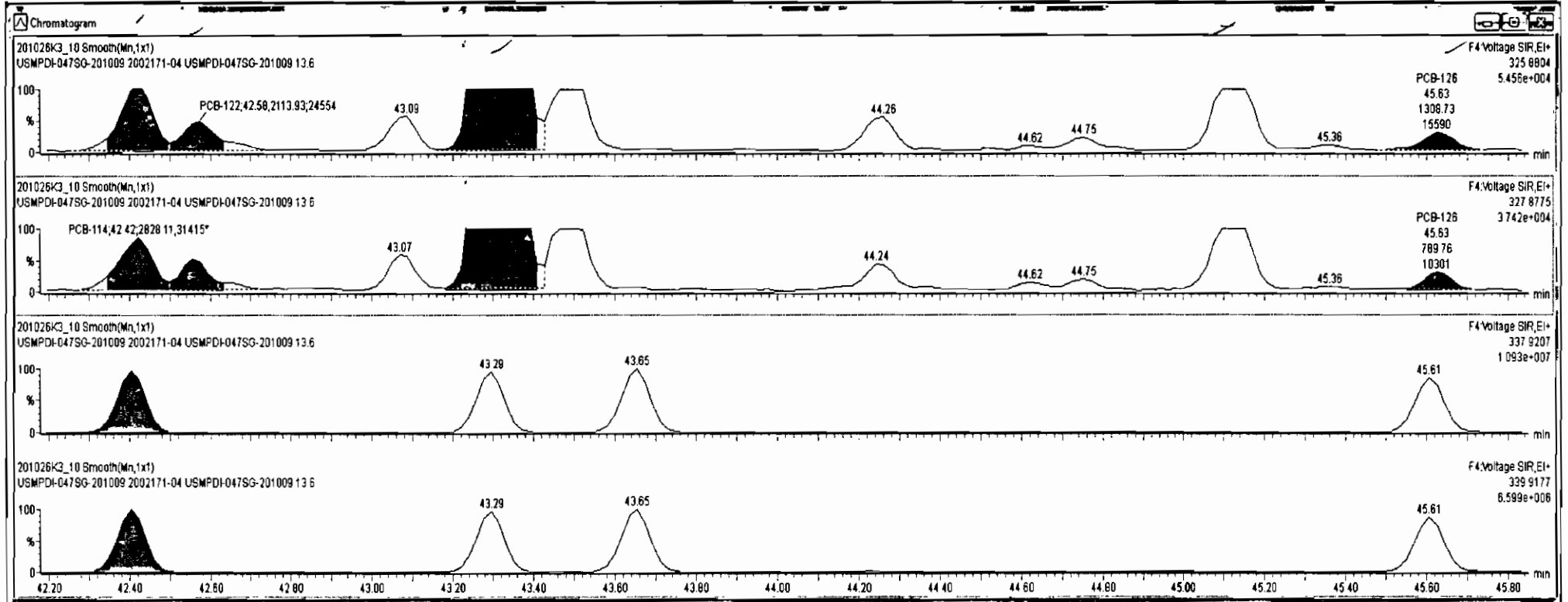
#	Name	Resp	RA	nly	RRF	wAdj	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1865	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	2nd Function Tri-PCBs				1.0607	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	619.7		7.79	628.2
228	Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2688		10.4	2687
229	3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3241		8.93	3258
230	4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	198.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	93 PCB-114	42.43	42.42	5.231e3	2.950e3	1.560	1.77	NO	10.270	10.270
2	94 PCB-122	42.57	42.58	2.114e3	1.472e3	1.560	1.44	NO	5.4400	5.4400
3	95 PCB-105	43.31	43.31	7.913e4	5.112e4	1.550	1.55	NO	181.37	181.37
4	97 PCB-126	45.62	45.63	1.308e3	7.098e2	1.560	1.66	NO	2.8277	2.8277



#	Name	Resp	RA	n/y	RF	w/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	3rd Function Tri-PCBs				0.9826	5.080	0.00		0.000		NO	619.7		7.79	629.2
228	Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2669		10.4	2667
229	3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3241		8.93	3268
230	4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	199.9		2.25	199.9

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	93 PCB-114	42.43	42.42	5.231e3	2.950e3	1.560	1.77	NO	10.270	10.270
2	94 PCB-122	42.57	42.58	2.114e3	1.472e3	1.560	1.44	NO	5.4400	5.4400
3	95 PCB-105	43.31	43.31	7.913e4	5.112e4	1.550	1.55	NO	181.37	181.37
4	97 PCB-126	45.62	45.63	1.309e3	7.898e2	1.560	1.66	NO	2.8277	2.8277



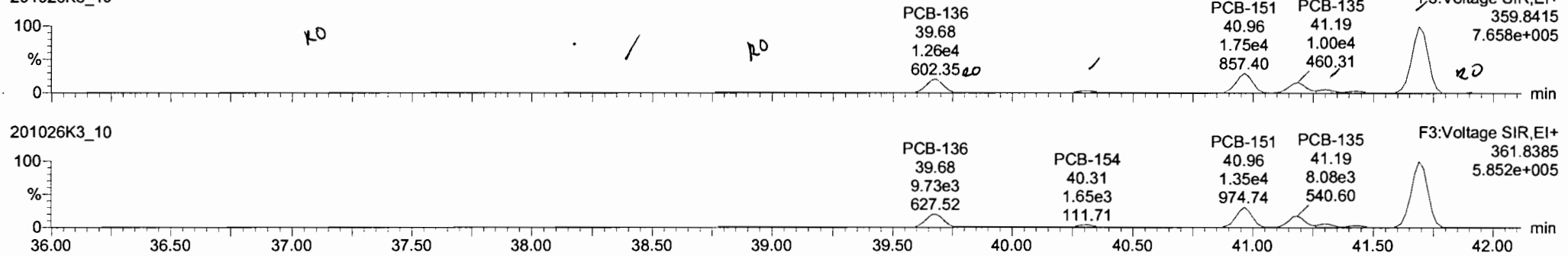
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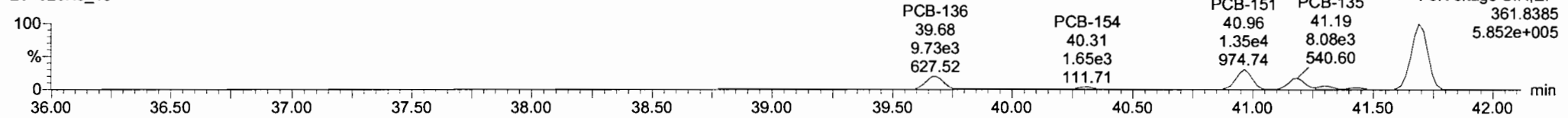
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**PCB-155**

201026K3\_10

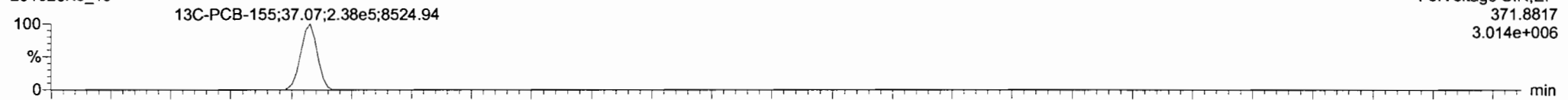


201026K3\_10

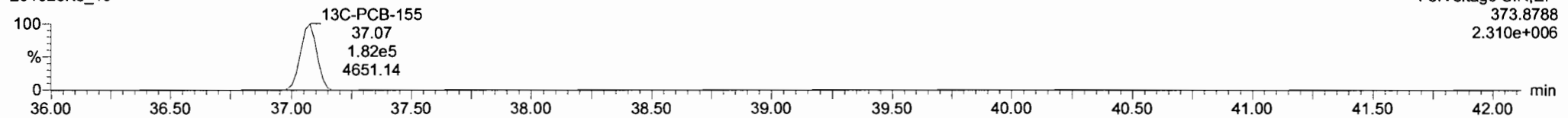


**13C-PCB-155**

201026K3\_10

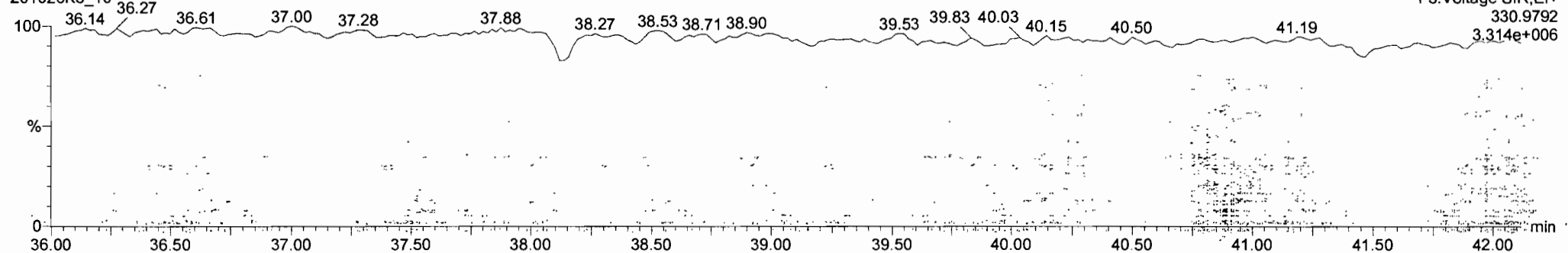


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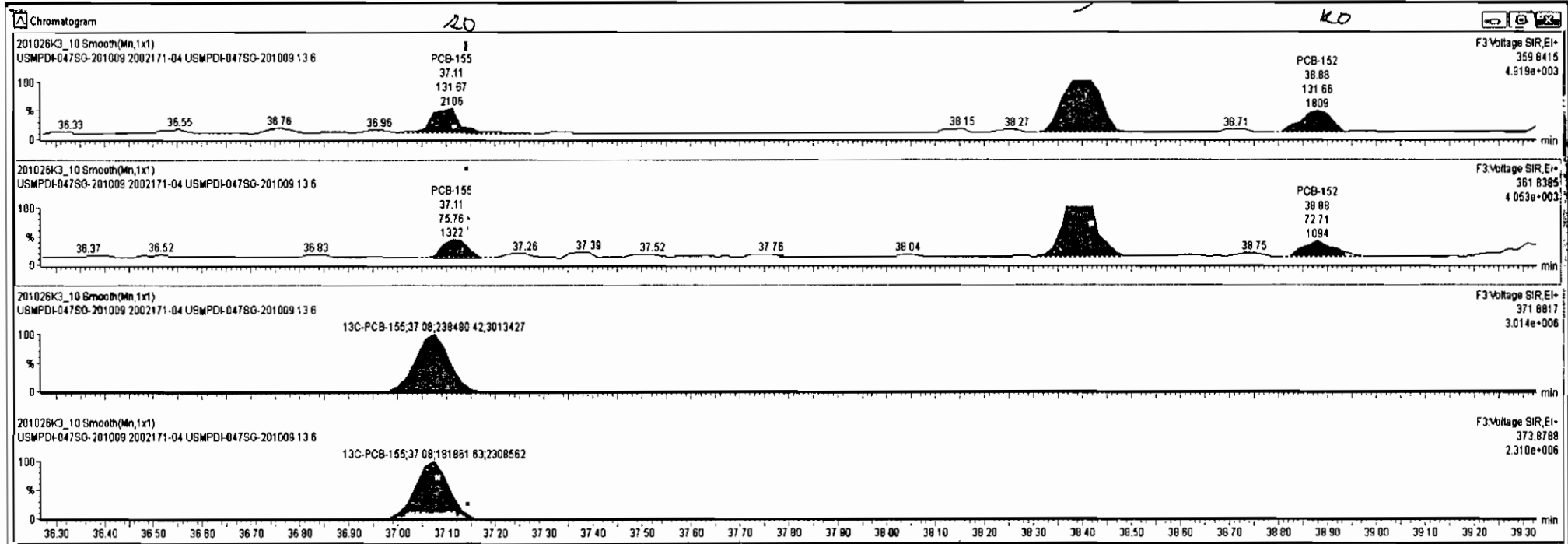
**PFK3c**

201026K3\_10



#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1865	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.5		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9526	5.080	0.00		0.000		NO	519.7		7.79	629.2
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2669		10.4	2687
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3241		8.93	3258
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	189.8		2.25	198.7

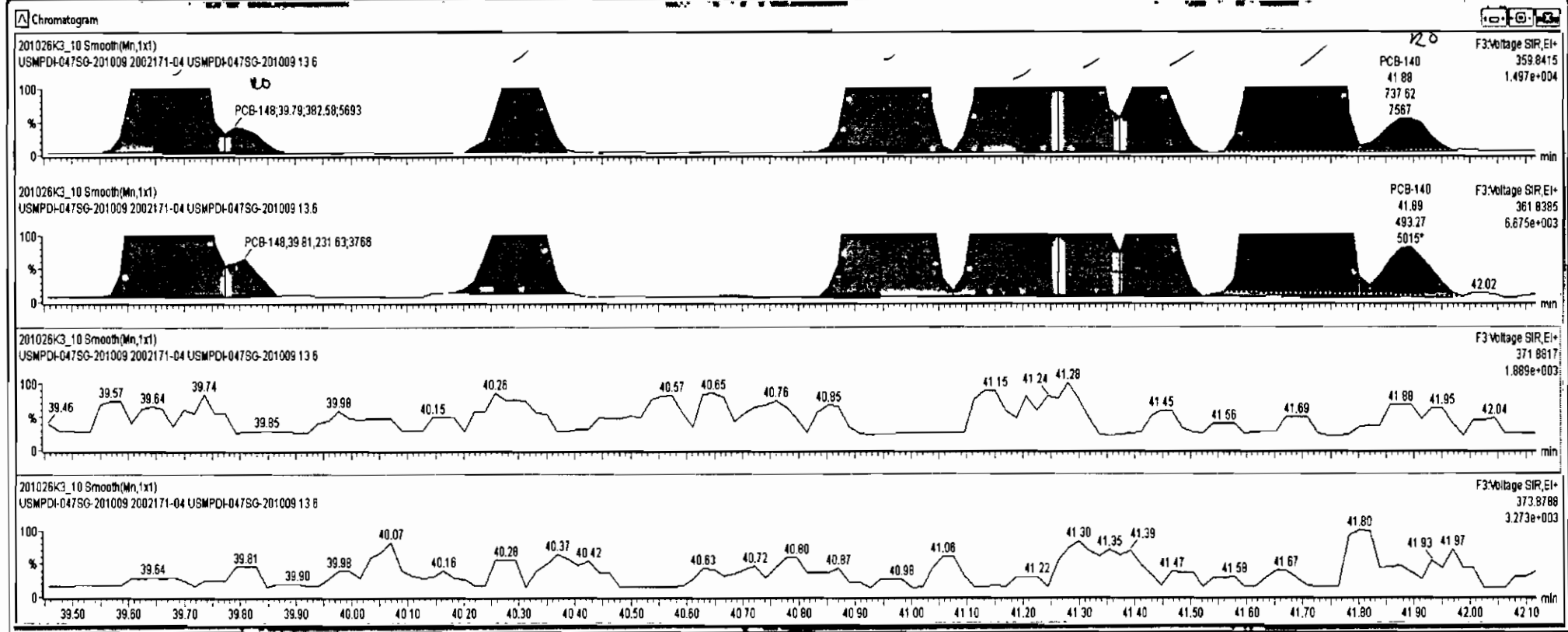
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1	98 PCB-155	37.09	37.11	1.317e2	7.576e1	1.240	1.74	YES	0.76160	0.00000
2	98 PCB-150	38.40	38.40	4.437e2	3.889e2	1.240	1.14	NO	3.5991	3.5991
3	100 PCB-152	38.88	38.88	1.317e2	7.271e1	1.240	1.81	YES	0.64293	0.00000
4	102 PCB-136	39.68	39.68	1.264e4	9.729e3	1.240	1.30	NO	102.63	102.63
5	103 PCB-148	39.79	39.79	3.826e2	2.316e2	1.240	1.85	YES	2.8874	0.00000
6	104 PCB-154	40.30	40.29	1.952e3	1.655e3	1.240	1.18	NO	18.380	18.380
7	105 PCB-151	40.97	40.96	1.749e4	1.352e4	1.240	1.29	NO	184.68	184.68
8	106 PCB-135	41.19	41.19	1.001e4	8.082e3	1.240	1.24	NO	91.886	91.886
9	107 PCB-144	41.30	41.30	2.816e3	2.202e3	1.240	1.28	NO	29.786	29.786





#	Name	Resp	RA	n/y	RRF	w/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fall	Conc.	%Rec	DL	*EMPC
224	224 Total Mono-PCBs				1.1665	5.080	0.00		0.000		NO	30.20		0.796	30.20
225	225 Total Di-PCBs				1.0537	5.080	0.00		0.000		NO	230.7		3.90	230.7
226	226 2nd Function Tri-PCBs				1.0807	5.080	0.00		0.000		NO	223.6		3.32	223.6
227	227 3rd Function Tri-PCBs				0.9828	5.080	0.00		0.000		NO	619.7		7.79	629.2
228	228 Total Tetra-PCBs				1.0778	5.080	0.00		0.000		NO	2669		10.4	2667
229	229 3rd Function Penta-PCBs				1.3157	5.080	0.00		0.000		NO	3241		8.93	3258
230	230 4th Function Penta-PCBs				1.0735	5.080	0.00		0.000		NO	189.6		2.25	196.7

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	98 PCB-155	37.09	37.11	1.317e2	7.576e1	1.240	1.74	YES	0.76180	0.00000
2	99 PCB-150	38.40	38.40	4.437e2	3.889e2	1.240	1.14	NO	3.5981	3.5981
3	100 PCB-152	38.88	38.88	1.317e2	7.271e1	1.240	1.81	YES	0.64293	0.00000
4	102 PCB-136	39.68	39.68	1.264e4	9.726e3	1.240	1.30	NO	102.63	102.63
5	103 PCB-148	39.79	39.79	3.826e2	2.316e2	1.240	1.65	YES	2.8874	0.00000
6	104 PCB-154	40.30	40.29	1.952e3	1.655e3	1.240	1.18	NO	18.380	18.380
7	105 PCB-151	40.67	40.96	1.749e4	1.352e4	1.240	1.29	NO	184.66	184.66
8	106 PCB-135	41.19	41.19	1.001e4	6.082e3	1.240	1.24	NO	91.886	91.886
9	107 PCB-144	41.30	41.30	2.818e3	2.202e3	1.240	1.26	NO	29.786	29.786

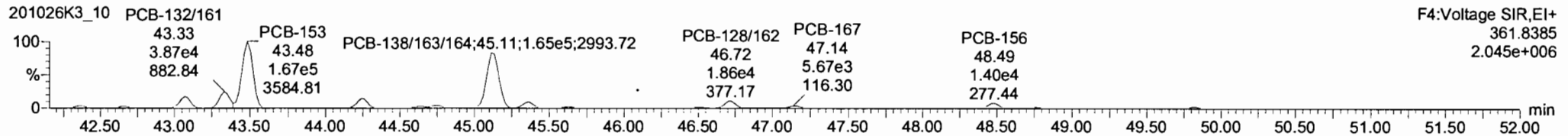
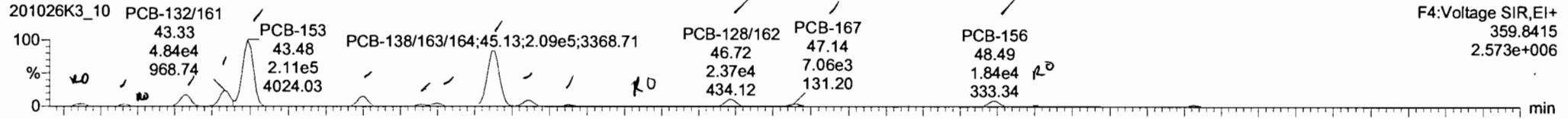


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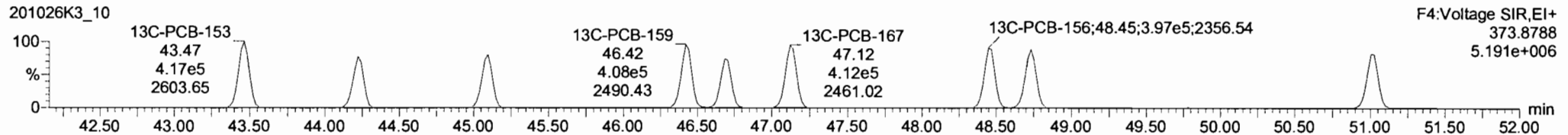
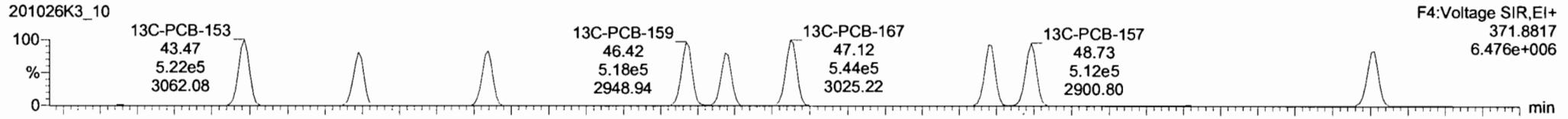
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Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

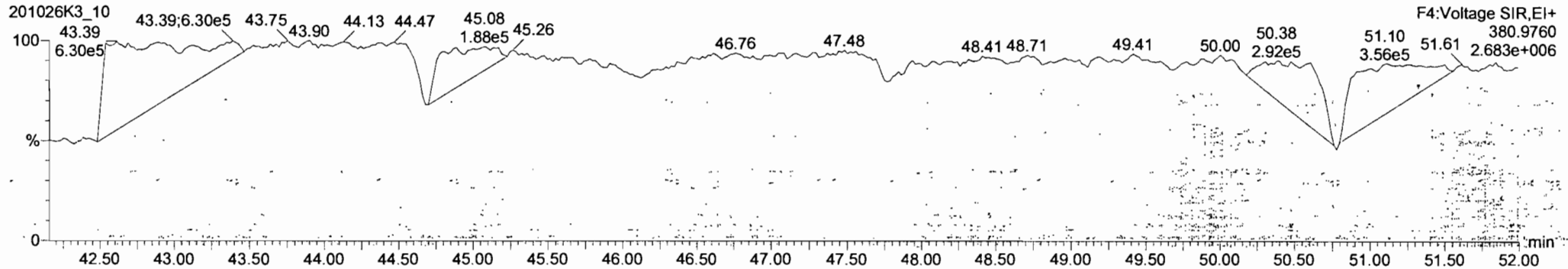
**PCB-134/143**



**13C-PCB-153**

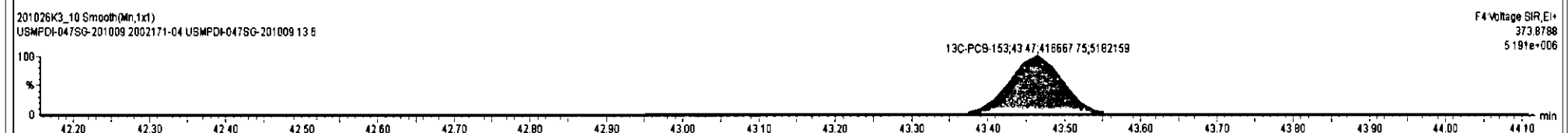
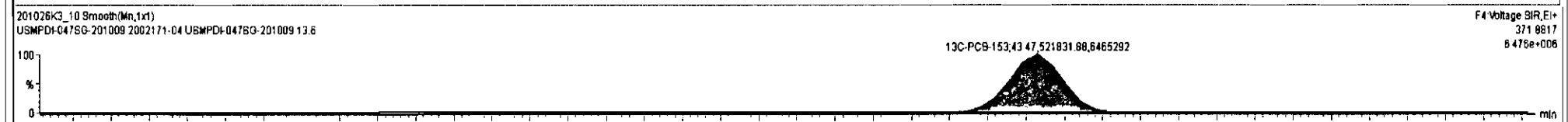
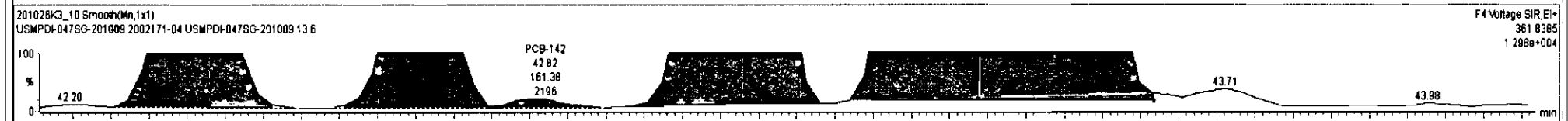
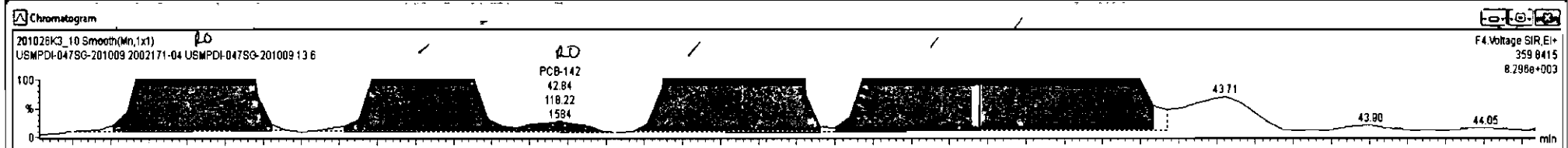


**PFK4b**



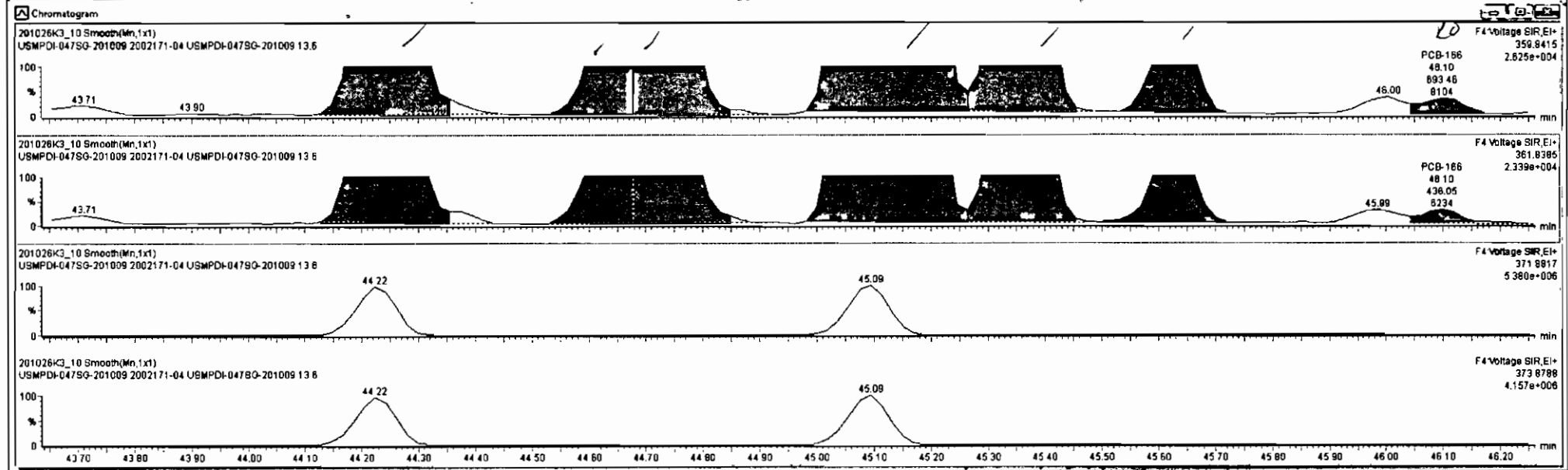
#	Name	Resp	RA	rvj	RFR	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.61	987.6
232	232 4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2296		8.80	2346
233	233 Total Hepta-PCBs				1.3651	5.080	0.00		0.000		NO	1963		10.4	1971
234	234 4th Function Octa-PCBs				1.0008	5.080	0.00		0.000		NO	350.5		4.08	354.5
235	235 5th Function Octa-PCBs				1.1499	5.080	0.00		0.000		NO	154.6		1.58	154.8
236	236 Total Nona-PCBs				0.9523	5.080	0.00		0.000		NO	160.9		1.81	160.9
237	237 Deca-CB				0.9864	5.080	0.00		0.000		NO	161.0		0.453	161.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	rvj	EMPC	Conc.
1	111 PCB-134/43	42.34	42.37	8.075e3	5.610e3	1.240	1.44	YES	34.732	0.00000
2	112 PCB-131/43	42.67	42.65	5.388e3	4.300e3	1.240	1.23	NO	24.504	24.504
3	113 PCB-142	42.83	42.84	1.182e2	1.614e2	1.240	0.73	YES	0.59096	0.00000
4	114 PCB-146/165	43.07	43.07	3.687e4	2.916e4	1.240	1.26	NO	136.25	136.25
5	115 PCB-132/161	43.31	43.33	4.837e4	3.872e4	1.240	1.25	NO	178.39	178.39
6	116 PCB-153	43.48	43.48	2.112e5	1.674e5	1.240	1.26	NO	741.73	741.73
7	118 PCB-141	44.24	44.24	3.200e4	2.430e4	1.240	1.32	NO	142.49	142.49
8	119 PCB-137	44.63	44.64	4.933e3	4.159e3	1.240	1.19	NO	21.278	21.278
9	120 PCB-130	44.73	44.75	9.135e3	7.267e3	1.240	1.25	NO	48.200	48.200



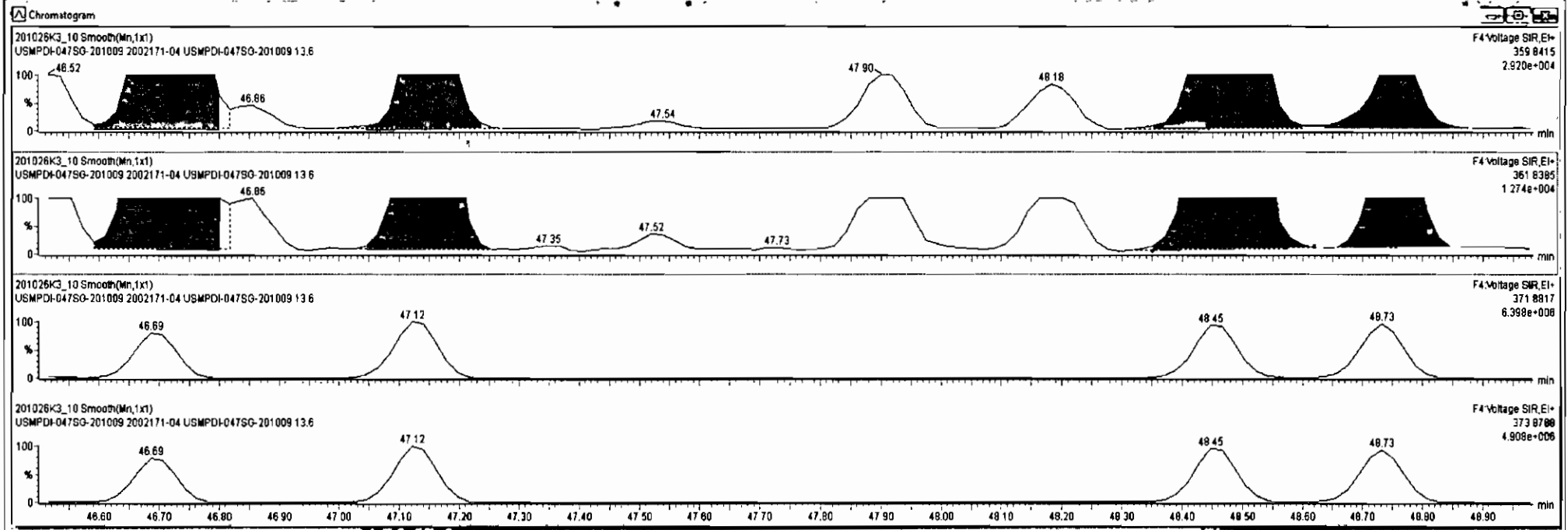
#	Name	Resp	RA	n/y	RWF	wtApl	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.61	987.5
232	232 4th Function Hexa-PCBs				1.0318	5.080	0.00		0.000		NO	2298		8.89	2347
233	233 Total Hexa-PCBs				1.3551	5.080	0.00		0.000		NO	1963		10.4	1971
234	234 4th Function Octa-PCBs				1.0008	5.080	0.00		0.000		NO	350.5		4.06	354.5
235	235 5th Function Octa-PCBs				1.1499	5.080	0.00		0.000		NO	154.8		1.58	154.8
236	236 Total None-PCBs				0.9523	5.080	0.00		0.000		NO	180.9		1.81	180.9
237	237 Deca-CB				0.9864	5.080	0.00		0.000		NO	161.0		0.453	161.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	111 PCB-134/143	42.34	42.37	8.075e3	5.610e3	1.240	1.44	YES	34.732	0.00000
2	112 PCB-131/133	42.67	42.85	5.266e3	4.300e3	1.240	1.23	NO	24.504	24.504
3	113 PCB-142	42.83	42.84	1.182e2	1.614e2	1.240	0.73	YES	0.55395	0.00000
4	114 PCB-146/165	43.07	43.07	3.887e4	2.916e4	1.240	1.26	NO	136.25	136.25
5	115 PCB-132/161	43.31	43.33	4.837e4	3.878e4	1.240	1.25	NO	178.52	178.52
6	116 PCB-153	43.48	43.48	2.112e5	1.675e5	1.240	1.26	NO	742.19	742.19
7	118 PCB-141	44.24	44.24	3.200e4	2.454e4	1.240	1.30	NO	143.10	143.10
8	119 PCB-137	44.63	44.64	4.933e3	4.189e3	1.240	1.18	NO	21.345	21.345
9	120 PCB-130	44.73	44.75	9.135e3	7.361e3	1.240	1.24	NO	48.418	48.418



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	BMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.51	987.6
232	232 4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2298		9.89	2347
233	233 Total Hepta-PCBs				1.3551	5.080	0.00		0.000		NO	1963		10.4	1971
234	234 4th Function Octa-PCBs				1.0008	5.080	0.00		0.000		NO	350.5		4.08	354.5
235	235 5th Function Octa-PCBs				1.1499	5.080	0.00		0.000		NO	154.8		1.58	154.8
236	236 Total Nona-PCBs				0.9523	5.080	0.00		0.000		NO	160.9		1.81	160.9
237	237 Deca-CB				0.9964	5.080	0.00		0.000		NO	161.0		0.453	161.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	** Ratio (Pred)	RA	n/y	BMPC	Conc. "
1	111 PCB-134/A43	42.34	42.37	8.075e3	5.610e3	1.240	1.44	YES	34.732	0.00000
2	112 PCB-131/A33	42.87	42.85	5.288e3	4.300e3	1.240	1.23	NO	24.504	24.504
3	113 PCB-142	42.83	42.84	1.182e2	1.614e2	1.240	0.73	YES	0.59396	0.00000
4	114 PCB-146/A65	43.07	43.07	3.887e4	2.916e4	1.240	1.26	NO	136.25	136.25
5	115 PCB-132/A61	43.31	43.33	4.837e4	3.878e4	1.240	1.25	NO	178.52	178.52
6	116 PCB-153	43.48	43.48	2.112e5	1.676e5	1.240	1.26	NO	742.19	742.19
7	118 PCB-141	44.24	44.24	3.200e4	2.454e4	1.240	1.30	NO	143.10	143.10
8	119 PCB-137	44.83	44.64	4.833e3	4.189e3	1.240	1.18	NO	21.345	21.345
9	120 PCB-130	44.73	44.75	9.135e3	7.361e3	1.240	1.24	NO	48.418	48.418

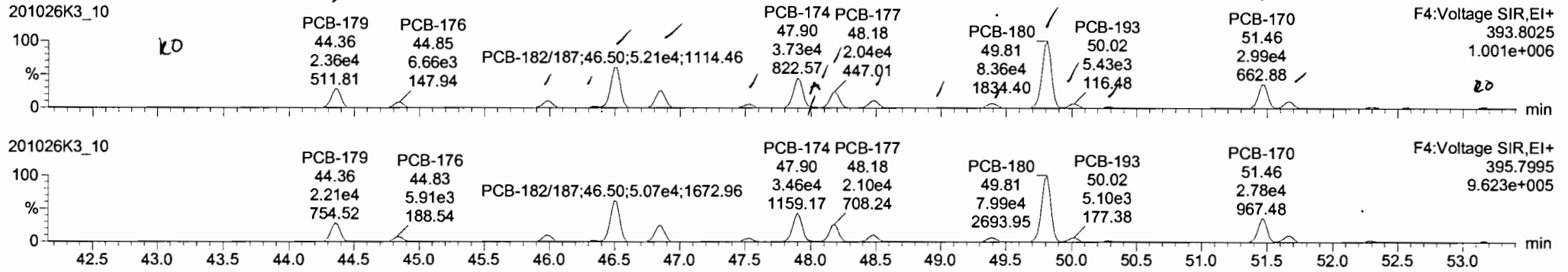


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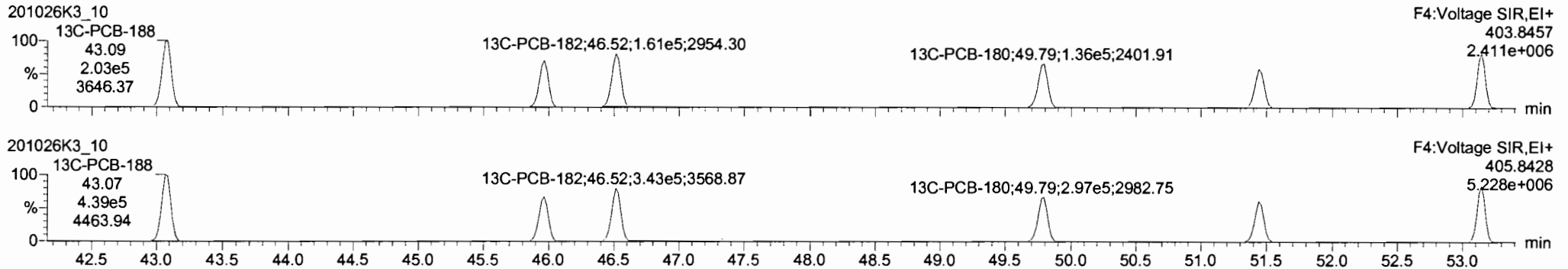
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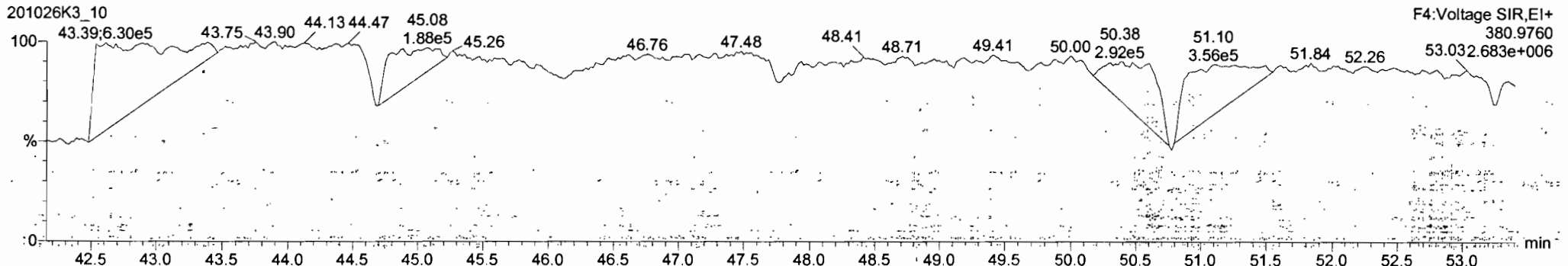
**PCB-188**



**13C-PCB-188**

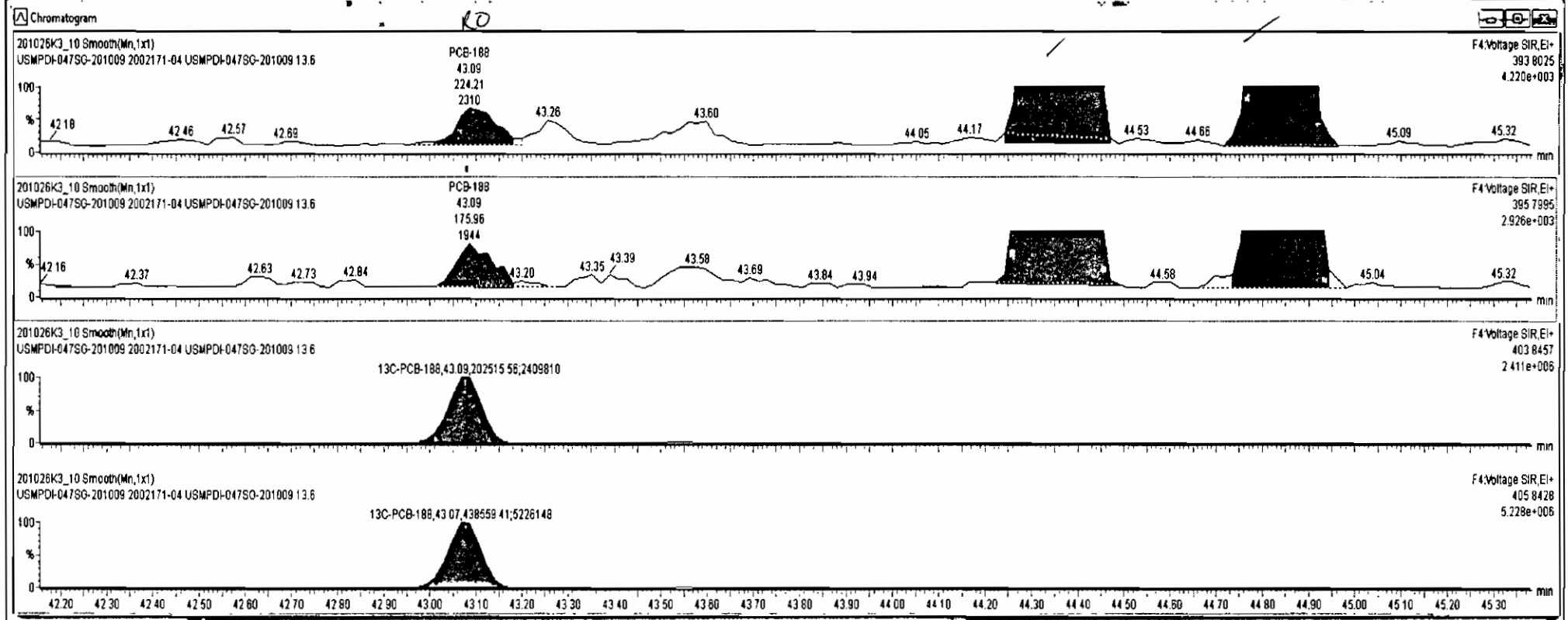


**PFK4c**



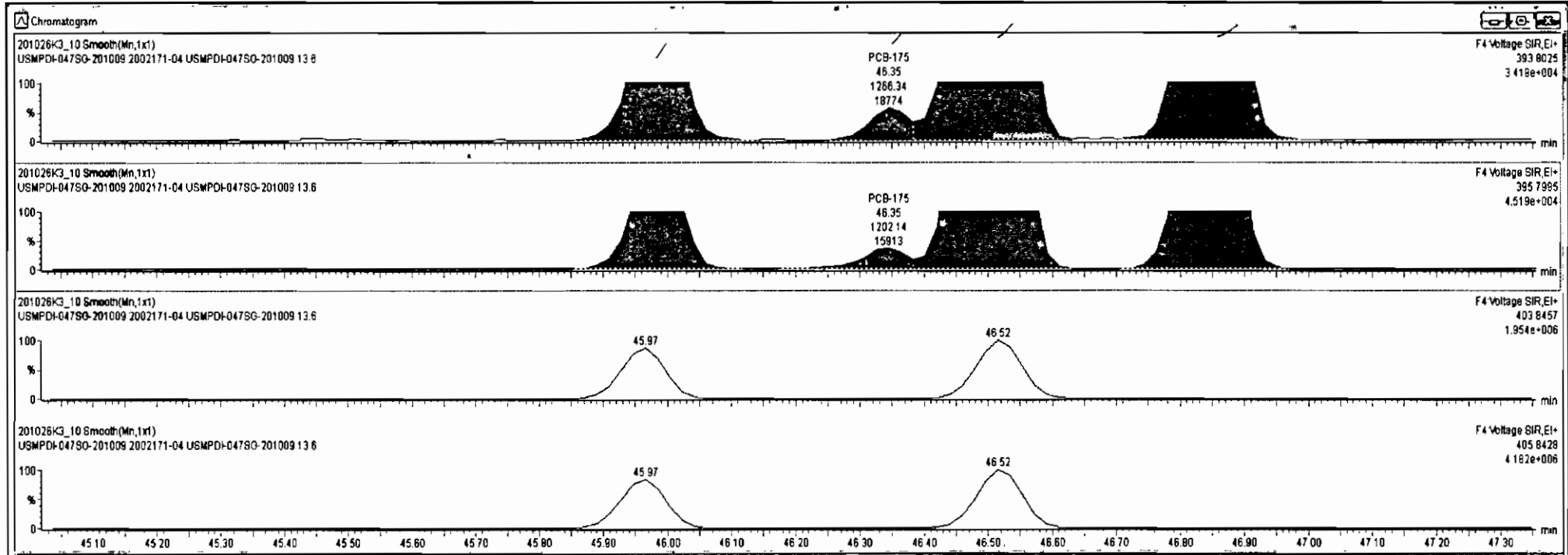
#	Name	Resp	RA	n/y	RRF	wtAval	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.51	987.6
232	232 4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2297		8.89	2346
233	233 Total Hepta-PCBs				1.3551	5.080	0.00		0.000		NO	1963		10.4	1971
234	234 4th Function Octa-PCBs				1.0008	5.080	0.00		0.000		NO	350.1		4.08	354.1
235	235 5th Function Octa-PCBs				1.1499	5.080	0.00		0.000		NO	154.5		1.58	154.5
236	236 Total Nona-PCBs				0.9523	5.080	0.00		0.000		NO	161.3		1.81	161.3
237	237 Deca-CB				0.9864	5.080	0.00		0.000		NO	161.0		0.453	161.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-188	43.12	43.09	2.242e2	1.780e2	1.050	1.27	YES	0.85895	0.00000
2	133 PCB-179	44.38	44.36	2.368e4	2.215e4	1.050	1.07	NO	108.42	108.42
3	134 PCB-176	44.87	44.85	6.667e3	5.879e3	1.050	1.13	NO	29.439	29.439
4	136 PCB-178	46.01	45.99	8.253e3	7.776e3	1.050	1.06	NO	52.186	52.186
5	137 PCB-175	46.37	46.35	1.270e3	1.230e3	1.050	1.03	NO	8.0257	8.0257
6	138 PCB-182n87	46.54	46.50	5.212e4	5.069e4	1.050	1.03	NO	296.13	296.13
7	138 PCB-183	46.86	46.86	2.168e4	2.040e4	1.050	1.06	NO	126.34	126.34
8	140 PCB-185	47.53	47.52	4.047e3	3.906e3	1.050	1.04	NO	25.722	25.722
9	141 PCB-174	47.91	47.90	3.731e4	3.490e4	1.050	1.08	NO	241.50	241.50



#	Name	Resp	RA	n/y	RF	wVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.61	987.6
232	232 4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2297		8.89	2348
233	233 Total Hepta-PCBs				1.3561	5.080	0.00		0.000		NO	1963		10.4	1971
234	234 4th Function Octa-PCBs				1.0006	5.080	0.00		0.000		NO	350.1		4.08	354.1
235	235 5th Function Octa-PCBs				1.1499	5.080	0.00		0.000		NO	154.5		1.58	154.5
236	236 Total Nona-PCBs				0.9523	5.080	0.00		0.000		NO	161.3		1.81	161.3
237	237 Deca-CB				0.9864	5.080	0.00		0.000		NO	161.0		0.453	161.0

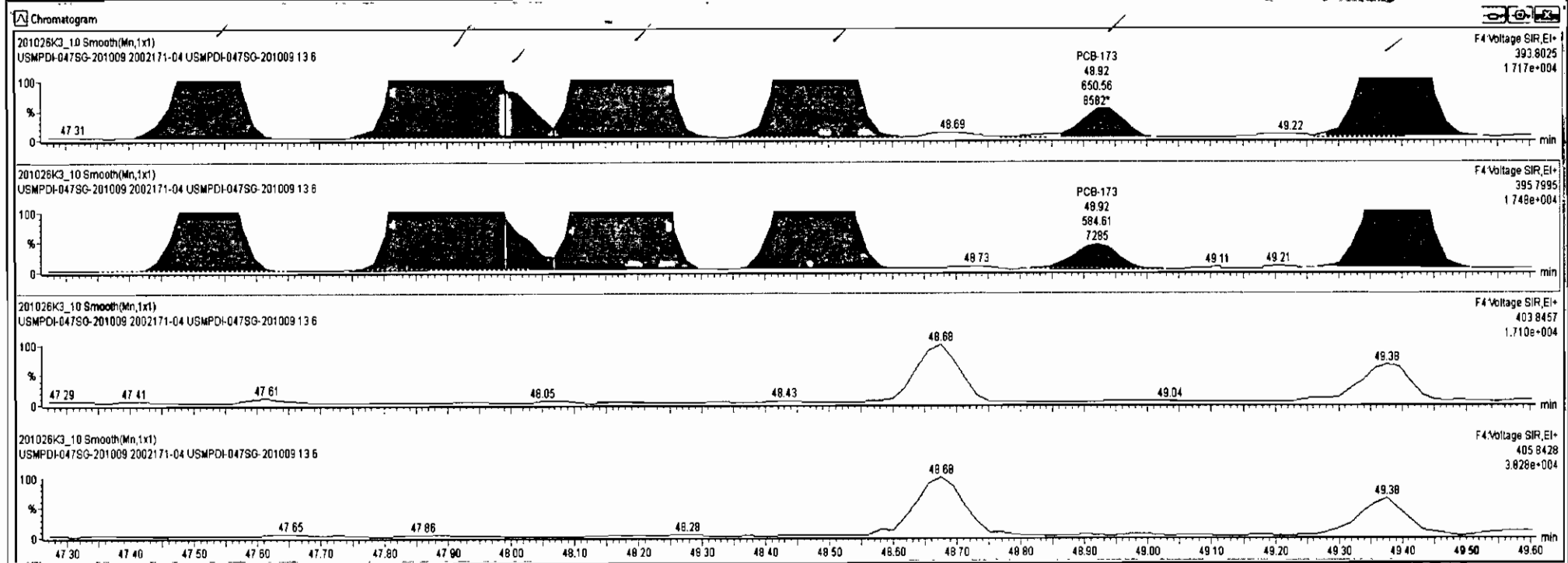
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-169	43.12	43.09	2.242e2	1.780e2	1.050	1.27	YES	0.85895	0.00000
2	133 PCB-173	44.36	44.36	2.368e4	2.215e4	1.050	1.07	NO	108.42	108.42
3	134 PCB-176	44.67	44.66	5.667e3	5.879e3	1.050	1.13	NO	29.439	29.439
4	136 PCB-178	45.01	45.99	8.256e3	7.766e3	1.050	1.06	NO	52.162	52.162
5	137 PCB-175	46.37	46.35	1.206e3	1.202e3	1.050	1.05	NO	7.9274	7.9274
6	138 PCB-182/187	46.54	46.50	5.218e4	5.073e4	1.050	1.03	NO	296.41	296.41
7	139 PCB-183	46.86	46.86	2.171e4	2.037e4	1.050	1.07	NO	126.36	126.36
8	140 PCB-185	47.53	47.52	4.047e3	3.906e3	1.050	1.04	NO	25.722	25.722
9	141 PCB-174	47.91	47.90	3.731e4	3.480e4	1.050	1.08	NO	241.50	241.50





#	Name	Resp	RA	nly	RF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.51	987.6
232	232 4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2297		8.89	2346
233	233 Total Hepta-PCBs				1.3551	5.080	0.00		0.000		NO	1963		10.4	1971
234	234 4th Function Octa-PCBs				1.0008	5.080	0.00		0.000		NO	350.1		4.08	354.1
235	235 5th Function Octa-PCBs				1.1499	5.080	0.00		0.000		NO	154.5		1.58	154.5
236	236 Total Nona-PCBs				0.9523	5.080	0.00		0.000		NO	161.3		1.81	161.3
237	237 Deca-CB				0.9864	5.080	0.00		0.000		NO	161.0		0.453	161.0

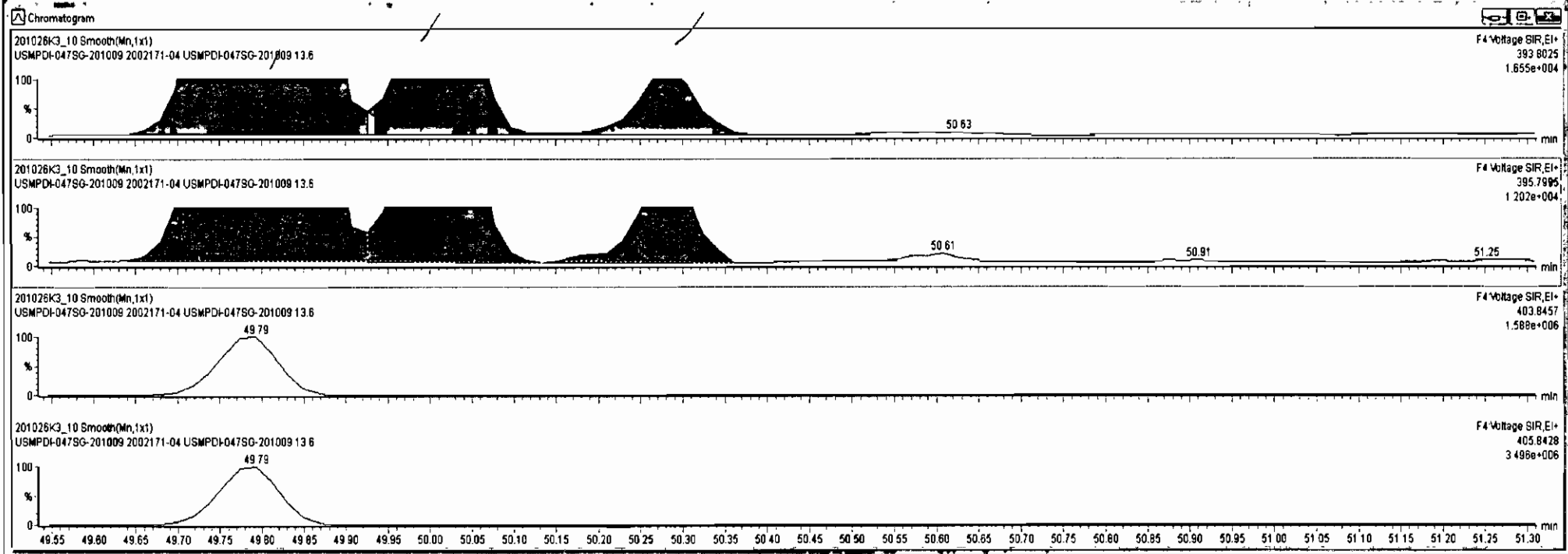
#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	nly	EMPC	Conc
1	131 PCB-188	43.12	43.09	2.242e2	1.760e2	1.050	1.27	YES	0.85895	0.00000
2	133 PCB-179	44.38	44.36	2.388e4	2.215e4	1.050	1.07	NO	108.42	108.42
3	134 PCB-176	44.67	44.85	6.967e3	5.879e3	1.050	1.13	NO	29.439	29.439
4	136 PCB-176	45.01	45.99	8.256e3	7.756e3	1.050	1.06	NO	52.162	52.162
5	137 PCB-175	46.37	46.35	1.266e3	1.202e3	1.050	1.05	NO	7.9274	7.9274
6	138 PCB-182/187	46.54	46.50	5.218e4	5.073e4	1.050	1.03	NO	296.41	296.41
7	139 PCB-183	46.86	46.86	2.171e4	2.037e4	1.050	1.07	NO	126.36	126.36
8	140 PCB-185	47.53	47.52	4.047e3	3.903e3	1.050	1.04	NO	25.712	25.712
9	141 PCB-174	47.91	47.90	3.664e4	3.402e4	1.050	1.08	NO	237.30	237.30



201026K3\_10\_2002171\_04 USMPDI-047SG-201009 13.6 USMPDI-047SG-201009

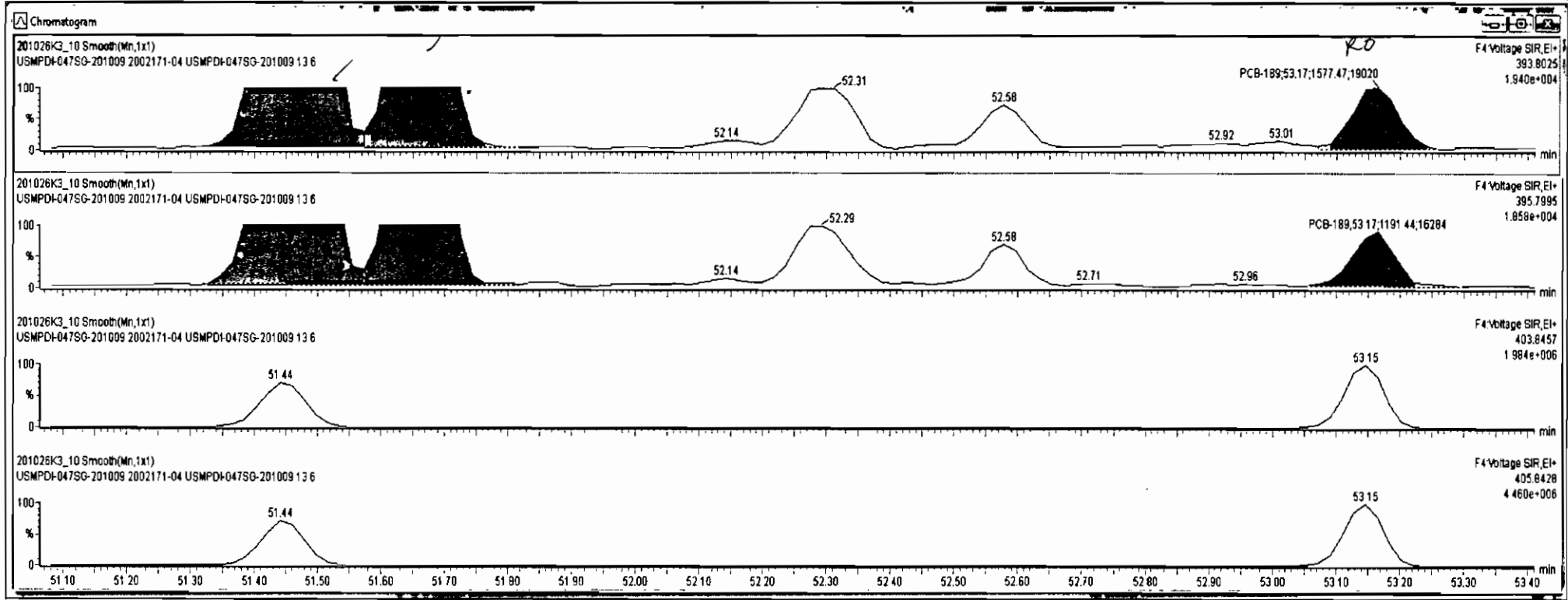
#	Name	Resp	RA	nly	RPF	wfVol	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.81	987.8
232	232 4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2297		8.89	2346
233	233 Total Hexa-PCBs				1.3551	5.080	0.00		0.000		NO	1982		10.4	1970
234	234 4th Function Octa-PCBs				1.0008	5.080	0.00		0.000		NO	350.1		4.08	354.1
235	235 5th Function Octa-PCBs				1.1498	5.080	0.00		0.000		NO	154.5		1.58	154.5
236	236 Total None-PCBs				0.9523	5.080	0.00		0.000		NO	161.3		1.81	161.3
237	237 Deca-CB				0.9864	5.080	0.00		0.000		NO	161.0		0.453	161.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	131 PCB-186	43.12	43.09	2.242e2	1.760e2	1.050	1.27	YES	0.85895	0.00000
2	133 PCB-179	44.38	44.36	2.368e4	2.215e4	1.050	1.07	NO	108.42	108.42
3	134 PCB-178	44.87	44.85	6.667e3	5.879e3	1.050	1.13	NO	29.439	29.439
4	136 PCB-178	46.01	45.98	8.256e3	7.786e3	1.050	1.06	NO	52.162	52.162
5	137 PCB-175	46.37	46.35	1.268e3	1.202e3	1.050	1.05	NO	7.9274	7.9274
6	138 PCB-182/187	46.54	46.50	5.218e4	5.073e4	1.050	1.03	NO	296.41	296.41
7	139 PCB-183	48.86	48.86	2.171e4	2.037e4	1.050	1.07	NO	126.36	126.36
8	140 PCB-185	47.53	47.52	4.047e3	3.903e3	1.050	1.04	NO	25.712	25.712
9	141 PCB-174	47.91	47.90	3.664e4	3.402e4	1.050	1.08	NO	237.30	237.30



#	Name	Resp	RA	nly	RRF	wAdj	Pred.RT	RT	Pred.R.	- RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.81	967.6
232	232 4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2297		8.89	2346
233	233 Total Hepta-PCBs				1.3551	5.080	0.00		0.000		NO	1962		10.4	1970
234	234 4th Function Octa-PCBs				1.0006	5.080	0.00		0.000		NO	350.1		4.08	354.1
235	235 5th Function Octa-PCBs				1.1439	5.080	0.00		0.000		NO	154.5		1.58	154.5
236	236 Total Nona-PCBs				0.9523	5.080	0.00		0.000		NO	161.3		1.81	161.3
237	237 Deca-CB				0.9864	5.080	0.00		0.000		NO	161.0		0.453	161.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
10	142 PCB-181	48.02	47.99	6.798e2	5.947e2	1.050	1.14	NO	3.9296	3.9296
11	143 PCB-177	48.20	48.18	2.043e4	2.105e4	1.050	0.97	NO	147.58	147.58
12	144 PCB-171	48.50	48.49	9.285e3	8.118e3	1.050	1.14	NO	60.112	60.112
13	145 PCB-173	48.93	48.92	6.506e2	5.846e2	1.050	1.11	NO	4.7191	4.7191
14	146 PCB-172	49.39	49.40	5.636e3	4.830e3	1.050	1.17	NO	34.598	34.598
15	148 PCB-180	49.81	49.81	8.358e4	7.952e4	1.050	1.05	NO	526.49	526.49
16	149 PCB-193	50.03	50.02	5.430e3	5.111e3	1.050	1.06	NO	28.578	28.578
17	150 PCB-191	50.29	50.28	1.515e3	1.481e3	1.050	1.02	NO	7.9648	7.9648
18	151 PCB-170	51.46	51.48	2.955e4	2.781e4	1.050	1.08	NO	218.41	218.41

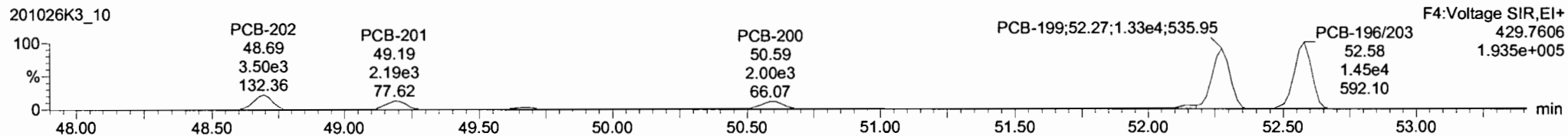
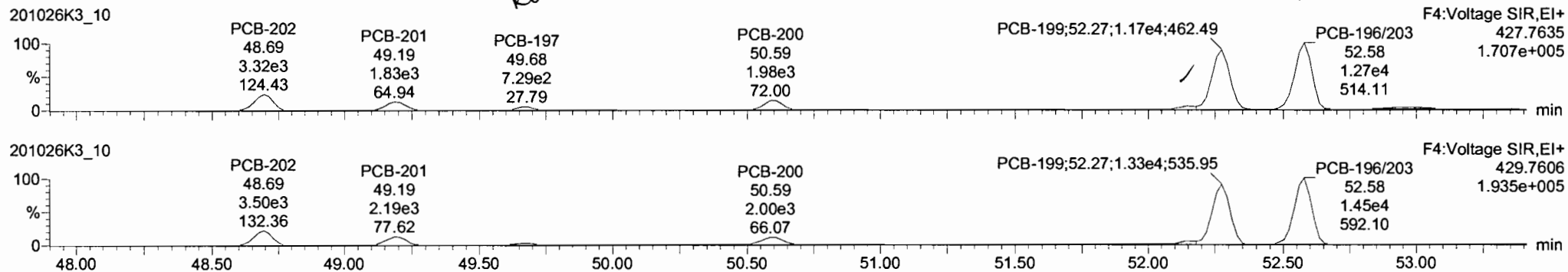


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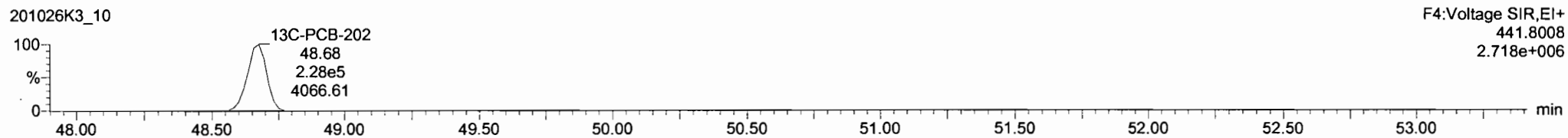
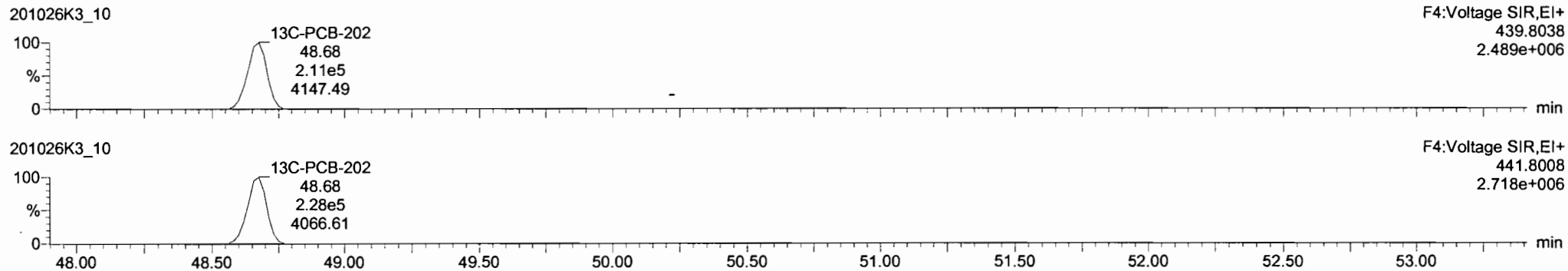
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 Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

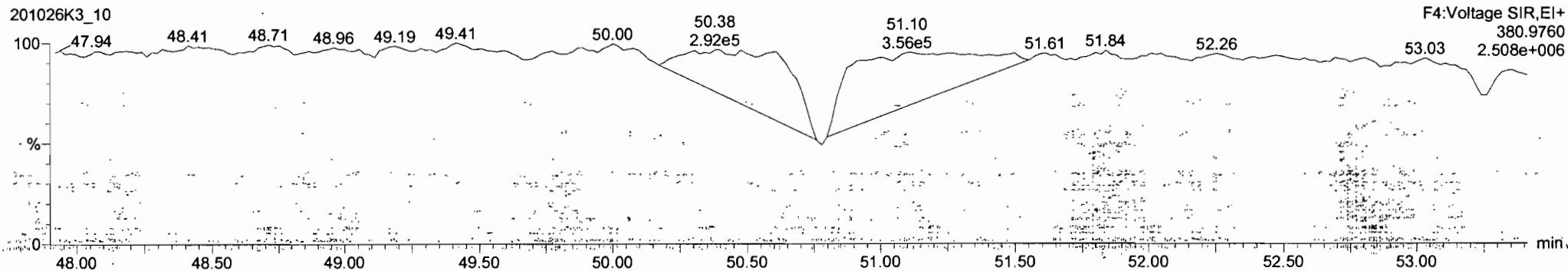
**PCB-202**

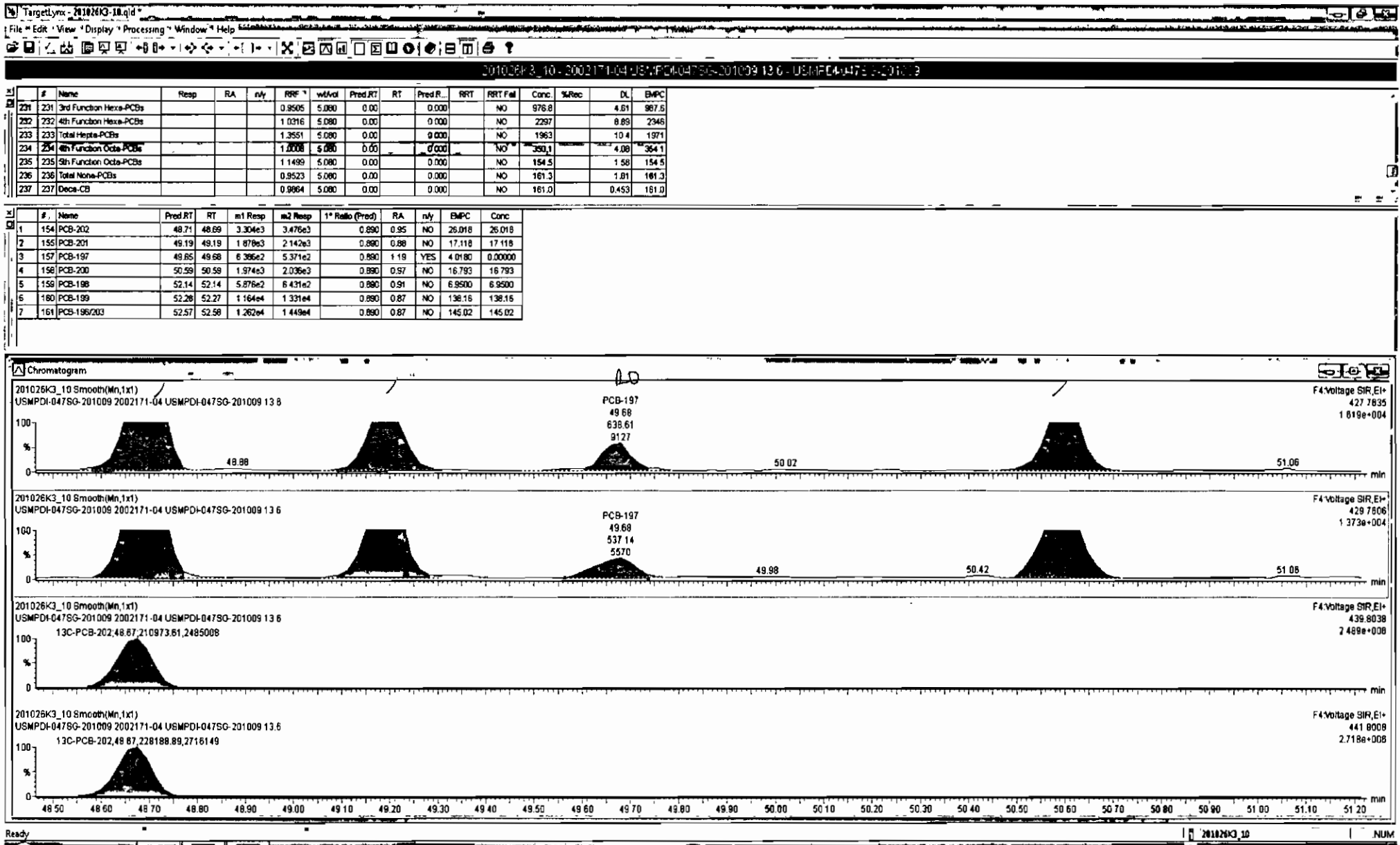


**13C-PCB-202**



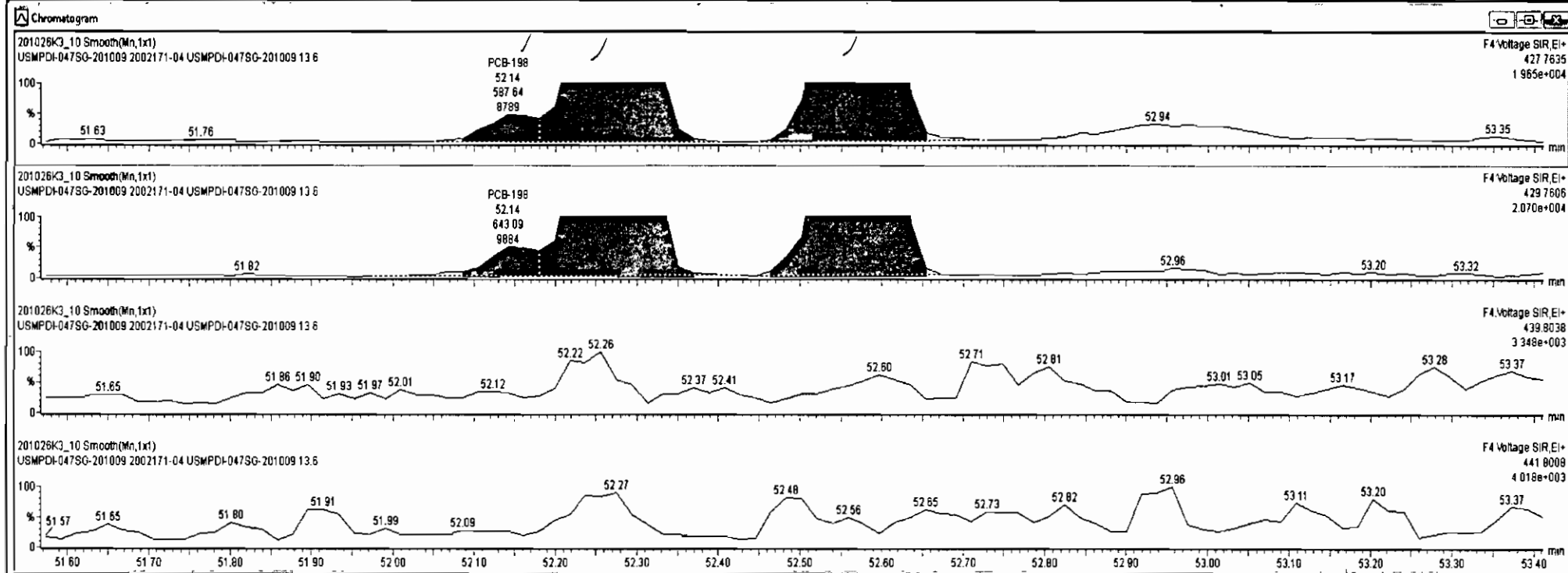
**PFK4d**





#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.61	987.6
232	4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2297		8.89	2346
233	Total Hepta-PCBs				1.3551	5.080	0.00		0.000		NO	1963		10.4	1971
234	4th Function Octa-PCBs				1.0008	5.080	0.00		0.000		NO	390.1		4.08	354.1
235	5th Function Octa-PCBs				1.1499	5.080	0.00		0.000		NO	154.5		1.58	154.5
236	Total Nona-PCBs				0.9523	5.080	0.00		0.000		NO	161.3		1.81	161.3
237	Deca-CB				0.9964	5.080	0.00		0.000		NO	161.0		0.453	161.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	154 PCB-202	48.71	48.68	3.304e3	3.476e3	0.890	0.95	NO	26.018	26.018
2	155 PCB-201	49.19	49.19	1.878e3	2.142e3	0.880	0.88	NO	17.118	17.118
3	157 PCB-197	49.65	49.68	6.386e2	5.371e2	0.890	1.19	YES	4.0180	0.000000
4	158 PCB-200	50.59	50.59	1.974e3	2.036e3	0.890	0.97	NO	16.793	16.793
5	159 PCB-198	52.14	52.14	5.876e2	6.431e2	0.890	0.91	NO	6.9500	6.9500
6	160 PCB-199	52.26	52.27	1.164e4	1.331e4	0.890	0.87	NO	138.16	138.16
7	161 PCB-195/203	52.57	52.58	1.262e4	1.449e4	0.890	0.87	NO	145.02	145.02

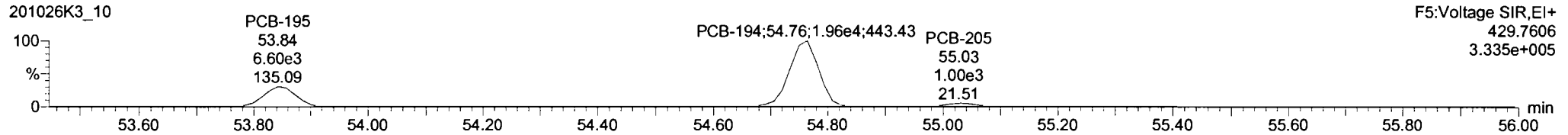
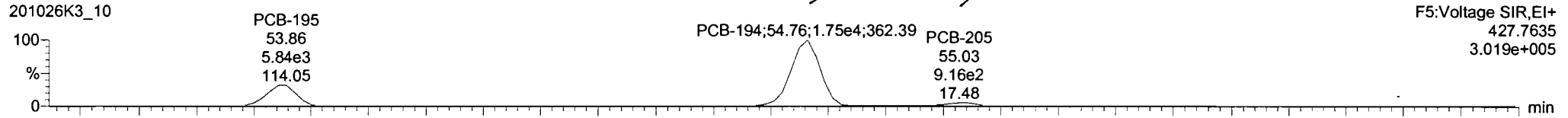


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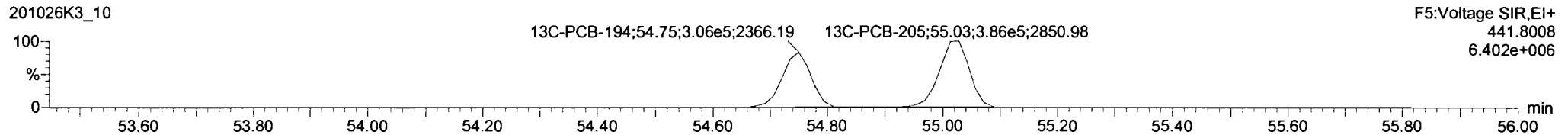
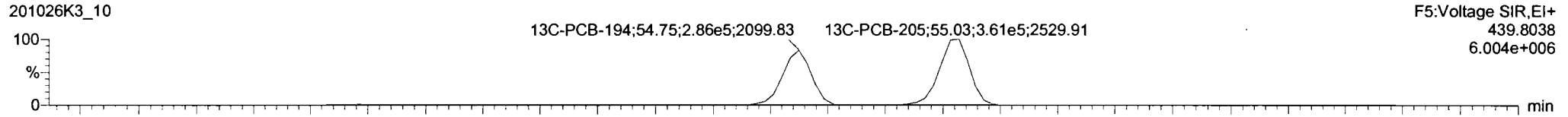
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

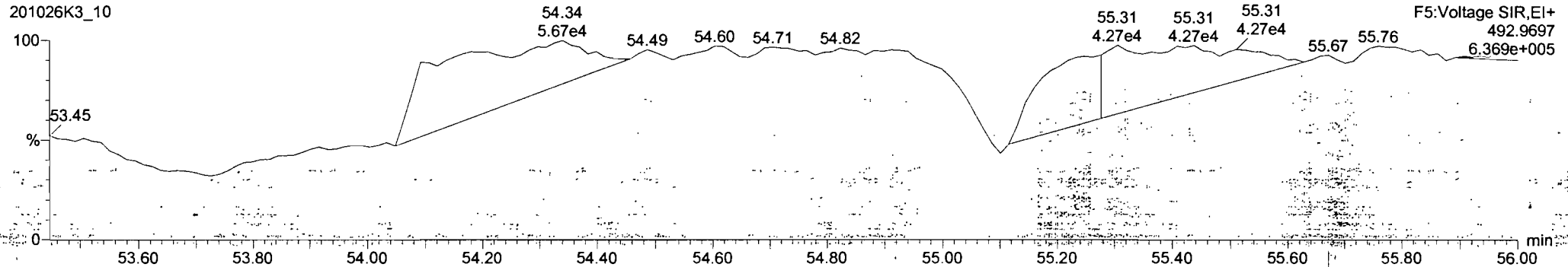
**PCB-195**



**13C-PCB-194**

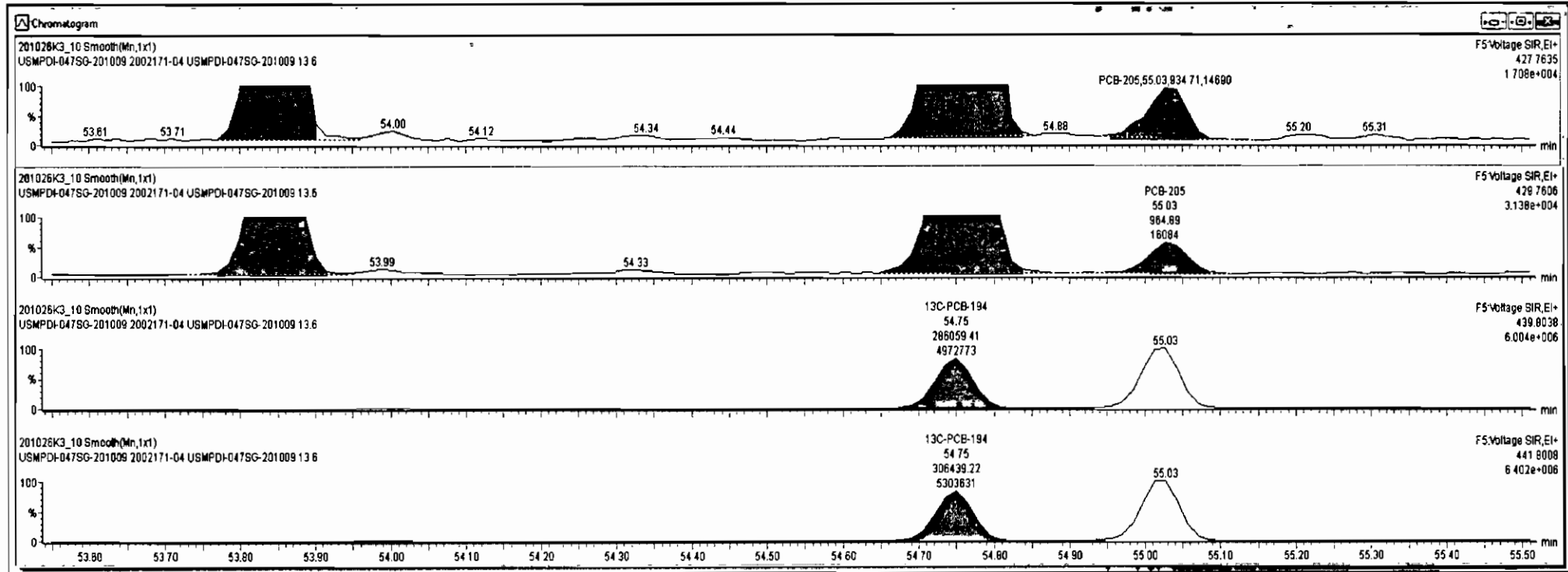


**PFK5a**



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
221	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.51	987.6
222	232 4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2297		8.89	2346
223	233 Total Hepta-PCBs				1.3551	5.080	0.00		0.000		NO	1963		10.4	1971
224	234 4th Function Octa-PCBs				1.0006	5.080	0.00		0.000		NO	350.5		4.06	354.5
225	235 5th Function Octa-PCBs				1.1499	5.080	0.00		0.000		NO	154.5		1.58	154.5
226	236 Total Nona-PCBs				0.9523	5.080	0.00		0.000		NO	161.3		1.81	161.3
227	237 Deca-CB				0.9864	5.080	0.00		0.000		NO	161.0		0.453	161.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	162 PCB-195	53.86	53.86	5.771e3	6.575e3	0.890	0.86	NO	39.277	39.277
2	163 PCB-194	54.77	54.76	1.752e4	1.952e4	0.890	0.90	NO	110.32	110.32
3	164 PCB-205	55.04	55.03	9.347e2	9.649e2	0.890	0.97	NO	4.8953	4.8953





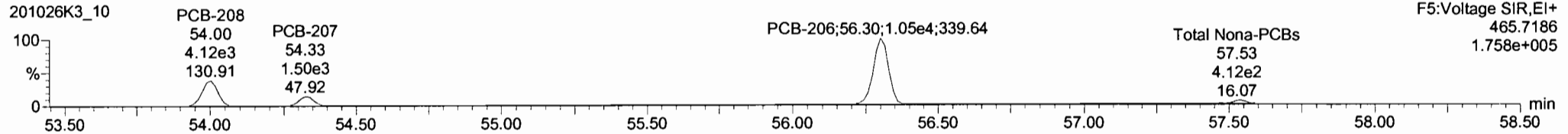
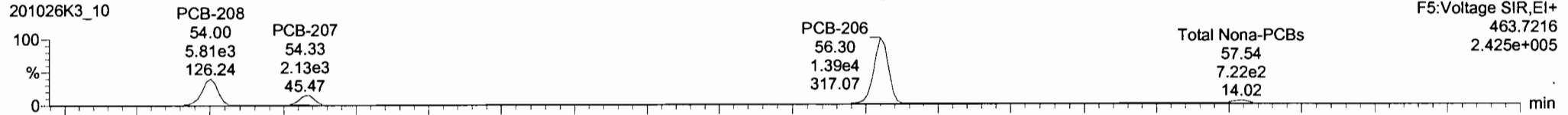
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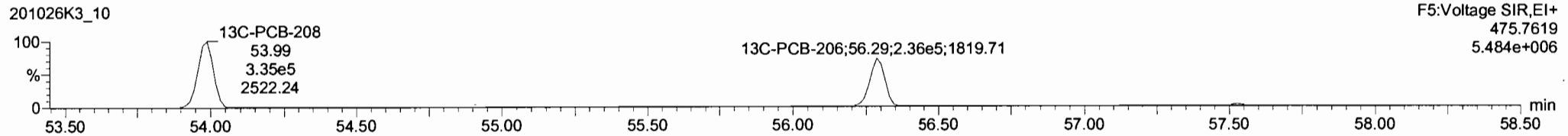
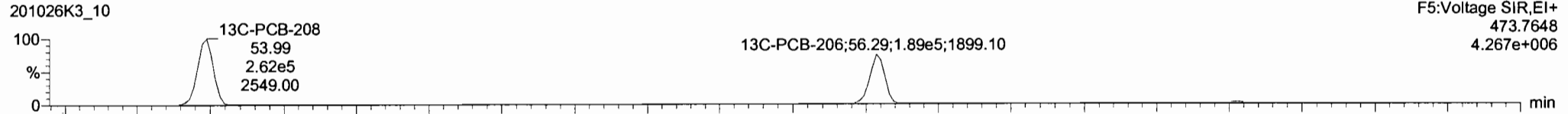
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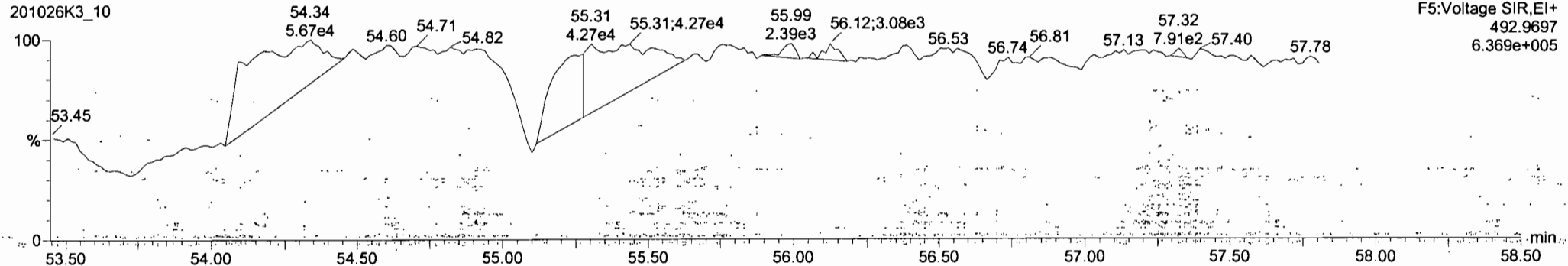
**PCB-208**



**13C-PCB-208**

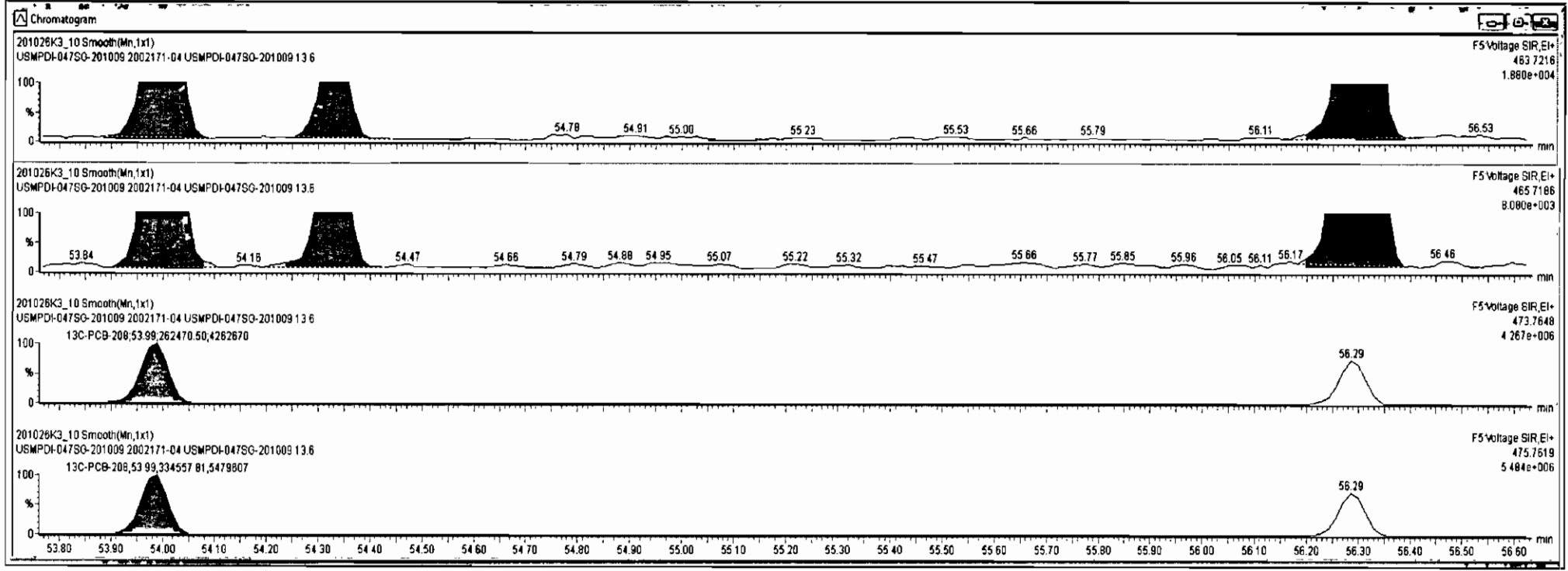


**PFK5**



#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.080	0.00		0.000		NO	976.8		4.81	987.6
232	232 4th Function Hexa-PCBs				1.0316	5.080	0.00		0.000		NO	2297		8.89	2346
233	233 Total Hepta-PCBs				1.3551	5.080	0.00		0.000		NO	1963		10.4	1971
234	234 4th Function Octa-PCBs				1.0008	5.080	0.00		0.000		NO	350.5		4.08	354.5
235	235 5th Function Octa-PCBs				1.1499	5.080	0.00		0.000		NO	154.8		1.58	154.8
236	236 Total Nona-PCBs				0.9523	5.080	0.00		0.000		NO	161.3		1.81	161.3
237	237 Deca-CB				0.9864	5.080	0.00		0.000		NO	161.0		0.453	161.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
1	165 PCB-208	54.01	54.00	5.872e3	4.122e3	1.340	1.42	NO	35.317	35.317
2	166 PCB-207	54.33	54.33	2.129e3	1.494e3	1.340	1.43	NO	12.998	12.998
3	167 PCB-206	56.30	56.30	1.398e4	1.058e4	1.340	1.32	NO	113.02	113.02



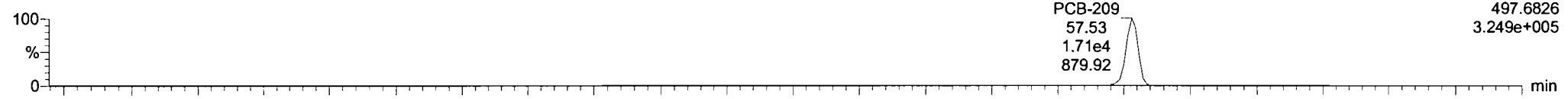
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_10, Date: 27-Oct-2020, Time: 20:00:06, ID: 2002171-04 USMPDI-047SG-201009 13.6, Description: USMPDI-047SG-201009

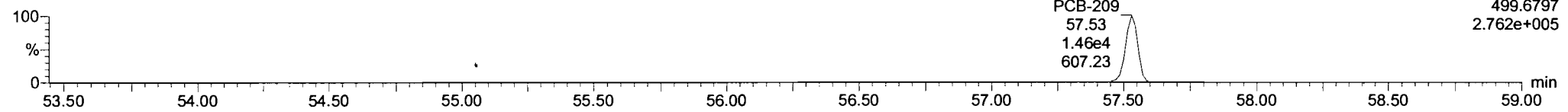
**PCB-209**

201026K3\_10



F5:Voltage SIR,EI+  
497.6826  
3.249e+005

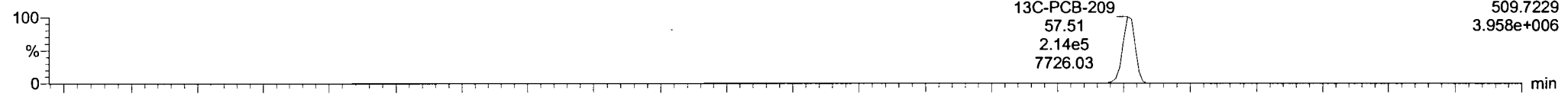
201026K3\_10



F5:Voltage SIR,EI+  
499.6797  
2.762e+005

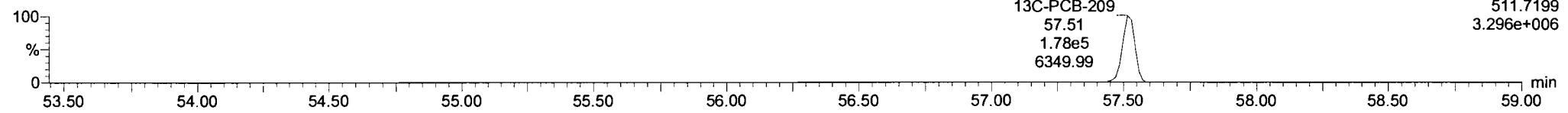
**13C-PCB-209**

201026K3\_10



F5:Voltage SIR,EI+  
509.7229  
3.958e+006

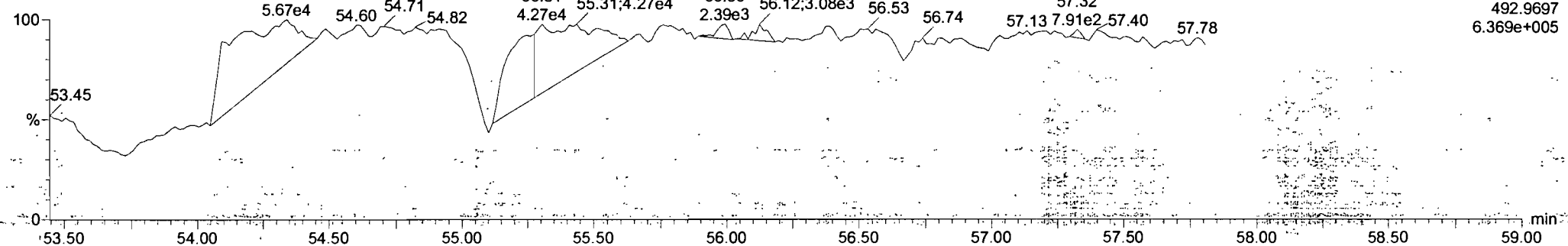
201026K3\_10



F5:Voltage SIR,EI+  
511.7199  
3.296e+006

**PFK5b**

201026K3\_10



F5:Voltage SIR,EI+  
492.9697  
6.369e+005

Dataset: U:\VG11.PRO\Results\201026K4\201026K4-10.qld

Last Altered: Thursday, November 12, 2020 15:22:21 Pacific Standard Time

Printed: Thursday, November 12, 2020 15:27:15 Pacific Standard Time

*Aug 11-12-2020*

*11/13/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred_RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	2.02e3	3.70	YES	1.17	5.097	15.58	15.59	1.001	1.001	NO	3.076		0.285	2.703
2	2 PCB-2	5.94e3	3.37	NO	1.18	5.097	18.00	18.00	0.988	0.988	NO	8.371		0.254	8.371
3	3 PCB-3	3.10e3	3.36	NO	1.15	5.097	18.22	18.24	1.001	1.001	NO	4.504		0.262	4.504
4	4 PCB-4/10	8.80e3	1.49	NO	1.25	5.097	19.65	19.60	1.004	1.002	NO	13.80		0.728	13.80
5	5 PCB-7/9	2.71e3	0.93	YES	0.960	5.097	21.46	21.45	1.003	1.002	NO	3.340		0.588	2.638
6	6 PCB-6	5.53e3	1.44	NO	1.02	5.097	22.11	22.10	1.033	1.033	NO	6.392		0.551	6.392
7	7 PCB-5/8	2.20e4	1.55	NO	0.992	5.097	22.52	22.51	1.052	1.052	NO	26.18		0.569	26.18
8	8 PCB-14			NO	1.02	5.097	23.65		0.951		YES			0.611	
9	9 PCB-11	5.77e4	1.54	NO	1.13	5.097	24.88	24.88	1.001	1.001	NO	64.87		0.552	64.87
10	10 PCB-12/13	4.59e3	1.63	NO	1.03	5.097	25.31	25.25	1.018	1.016	NO	5.664		0.605	5.664
11	11 PCB-15	2.92e4	1.55	NO	1.03	5.097	25.60	25.60	1.030	1.030	NO	35.70		0.601	35.70
12	12 PCB-19	5.87e3	1.12	NO	1.11	5.097	23.85	23.84	1.001	1.001	NO	15.82		0.642	15.82
13	13 PCB-30			NO	1.79	5.097	24.75		1.039		YES			0.396	
14	14 PCB-18	2.68e4	1.03	NO	0.818	5.097	25.52	25.52	0.952	0.952	NO	60.77		0.532	60.77
15	15 PCB-17	1.30e4	1.01	NO	0.758	5.097	25.70	25.69	0.959	0.958	NO	31.75		0.574	31.75
16	16 PCB-24/27	3.75e3	1.02	NO	1.08	5.097	26.30	26.27	0.981	0.980	NO	6.425		0.402	6.425
17	17 PCB-16/32	2.02e4	1.03	NO	0.925	5.097	26.83	26.83	1.001	1.001	NO	40.36		0.470	40.36
18	18 PCB-34			NO	0.945	5.097	27.62		0.959		YES			0.545	
19	19 PCB-23			NO	0.883	5.097	27.71		0.962		YES			0.584	
20	20 PCB-29			NO	0.893	5.097	27.97		0.971		YES			0.577	
21	21 PCB-26	2.15e4	1.12	NO	0.944	5.097	28.20	28.22	0.979	0.979	NO	27.73		0.546	27.73
22	22 PCB-25	1.02e4	1.07	NO	0.950	5.097	28.35	28.37	0.984	0.984	NO	13.03		0.543	13.03
23	23 PCB-31	1.24e5	1.09	NO	1.04	5.097	28.73	28.74	0.997	0.997	NO	145.2		0.497	145.2
24	24 PCB-28	1.28e5	1.05	NO	1.03	5.097	28.83	28.85	1.001	1.001	NO	152.1		0.503	152.1
25	25 PCB-20/21/33	5.17e4	1.04	NO	0.941	5.097	29.47	29.50	1.023	1.024	NO	66.84		0.548	66.84
26	26 PCB-22	3.72e4	1.03	NO	0.973	5.097	29.91	29.93	1.038	1.039	NO	46.52		0.530	46.52
27	27 PCB-36			NO	1.08	5.097	30.63		0.931		YES			0.485	
28	28 PCB-39			NO	0.988	5.097	31.14		0.947		YES			0.528	
29	29 PCB-38			NO	1.05	5.097	31.92		0.970		YES			0.496	
30	30 PCB-35	3.24e3	1.32	YES	1.04	5.097	32.47	32.46	0.987	0.987	NO	3.854		0.600	3.386

Dataset: U:\VG11.PRO\Results\201026K4\201026K4-10.qld

Last Altered: Thursday, November 12, 2020 15:22:21 Pacific Standard Time  
 Printed: Thursday, November 12, 2020 15:27:15 Pacific Standard Time

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 PCB-37	4.96e4	1.11	NO	1.01	5.097	32.91	32.91	1.001	1.001	NO	60.98		0.517	60.98
32	32 PCB-54	1.61e3	0.80	NO	1.08	5.097	27.68	27.68	1.001	1.001	NO	3.036		0.306	3.036
33	33 PCB-50	5.05e2	0.92	YES	0.880	5.097	28.89	28.91	1.044	1.045	NO	1.171		0.375	1.081
34	34 PCB-53	1.33e4	0.82	NO	0.997	5.097	29.56	29.56	0.944	0.944	NO	31.77		0.399	31.77
35	35 PCB-51	6.52e3	0.83	NO	1.07	5.097	29.92	29.91	0.955	0.955	NO	14.61		0.373	14.61
36	36 PCB-45	8.55e3	0.84	NO	0.858	5.097	30.36	30.34	0.969	0.968	NO	23.77		0.463	23.77
37	37 PCB-46	3.90e3	0.73	NO	0.831	5.097	30.86	30.84	0.985	0.985	NO	11.20		0.478	11.20
38	38 PCB-52/69	1.10e5	0.81	NO	1.17	5.097	31.36	31.34	1.001	1.001	NO	225.7		0.341	225.7
39	39 PCB-73			NO	1.44	5.097	31.48		1.005		YES			0.275	
40	40 PCB-43/49	7.98e4	0.78	NO	1.02	5.097	31.65	31.66	1.010	1.011	NO	187.4		0.391	187.4
41	41 PCB-47	3.78e4	0.80	NO	0.922	5.097	31.87	31.88	1.001	1.001	NO	91.16		0.433	91.16
42	42 PCB-48/75	2.16e4	0.85	NO	1.12	5.097	31.98	32.01	1.004	1.005	NO	43.01		0.356	43.01
43	43 PCB-65			NO	1.28	5.097	32.26		1.013		YES			0.311	
44	44 PCB-62			NO	1.13	5.097	32.35		1.016		YES			0.354	
45	45 PCB-44	6.93e4	0.78	NO	0.824	5.097	32.68	32.74	1.026	1.028	NO	187.2		0.484	187.2
46	46 PCB-42/59	3.08e4	0.81	NO	1.05	5.097	32.91	32.96	1.033	1.035	NO	65.22		0.380	65.22
47	47 PCB-41/64/71/72	8.91e4	0.82	NO	1.19	5.097	33.52	33.54	1.053	1.053	NO	167.1		0.336	167.1
48	48 PCB-68	1.07e3	0.81	NO	1.28	5.097	33.78	33.78	1.061	1.061	NO	1.869		0.312	1.869
49	49 PCB-40	1.00e4	0.82	NO	0.602	5.097	34.00	34.01	1.067	1.068	NO	36.98		0.663	36.98
50	50 PCB-57	9.56e2	0.83	NO	1.16	5.097	34.38	34.40	0.969	0.970	NO	1.509		0.261	1.509
51	51 PCB-67	4.60e3	0.94	YES	1.08	5.097	34.69	34.69	0.978	0.978	NO	7.280		0.280	7.112
52	52 PCB-58	1.06e3	0.54	YES	1.20	5.097	34.82	34.81	0.982	0.981	NO	1.616		0.252	1.302
53	53 PCB-63	6.75e3	0.77	NO	1.07	5.097	34.97	34.97	0.986	0.986	NO	11.55		0.283	11.55
54	54 PCB-74	7.65e4	0.79	NO	1.19	5.097	35.28	35.27	0.994	0.994	NO	118.5		0.256	118.5
55	55 PCB-61/70	1.72e5	0.78	NO	1.05	5.097	35.49	35.49	1.000	1.001	NO	299.4		0.288	299.4
56	56 PCB-76/66	1.57e5	0.79	NO	1.16	5.097	35.68	35.70	1.006	1.006	NO	246.6		0.261	246.6
57	57 PCB-80			NO	1.19	5.097	35.93		1.001		YES			0.255	
58	58 PCB-55	2.25e3	0.66	NO	1.17	5.097	36.26	36.22	1.010	1.009	NO	3.445		0.259	3.445
59	59 PCB-56/60	9.00e4	0.79	NO	1.02	5.097	36.75	36.76	1.024	1.024	NO	158.0		0.298	158.0
60	60 PCB-79	2.76e3	0.84	NO	1.14	5.097	37.88	37.89	1.055	1.055	NO	4.337		0.266	4.337
61	61 PCB-78			NO	1.14	5.097	38.58		0.987		YES			0.274	
62	62 PCB-81	5.86e2	0.90	YES	1.05	5.097	39.12	39.14	1.000	1.001	NO	1.011		0.287	0.9429
63	63 PCB-77	2.04e4	0.83	NO	1.14	5.097	39.74	39.74	1.000	1.000	NO	32.62		0.283	32.62

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#	Name	Resp	RA	n/y	RRF	wl/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
64	64 PCB-104			NO	1.12	5.097	32.59		1.001		YES			0.335	
65	65 PCB-96	9.51e2	1.45	NO	1.15	5.097	33.90	33.84	1.041	1.039	NO	2.591		0.325	2.591
66	66 PCB-103	1.80e3	1.37	NO	0.936	5.097	34.45	34.40	1.058	1.056	NO	6.034		0.401	6.034
67	67 PCB-100	1.86e3	1.77	NO	0.954	5.097	34.82	34.75	1.069	1.067	NO	6.128		0.394	6.128
68	68 PCB-94	8.50e2	1.70	NO	0.949	5.097	35.25	35.25	0.985	0.985	NO	3.375		0.435	3.375
69	69 PCB-95/98/102	6.58e4	1.59	NO	1.20	5.097	35.72	35.79	0.999	1.001	NO	205.8		0.343	205.8
70	70 PCB-93	1.45e3	1.37	NO	0.935	5.097	35.87	35.87	1.003	1.003	NO	5.829		0.441	5.829
71	71 PCB-88/91	1.43e4	1.75	NO	1.06	5.097	36.20	36.22	1.012	1.012	NO	50.70		0.388	50.70
72	72 PCB-121	1.18e2	1.54	NO	1.71	5.097	36.31	36.29	1.015	1.015	NO	0.2592		0.241	0.2592
73	73 PCB-84/92	3.50e4	1.49	NO	1.02	5.097	37.15	37.15	0.990	0.990	NO	134.1		0.422	134.1
74	74 PCB-89	9.70e2	1.77	NO	1.11	5.097	37.34	37.33	0.995	0.995	NO	3.423		0.389	3.423
75	75 PCB-90/101	9.80e4	1.66	NO	1.12	5.097	37.53	37.54	1.000	1.001	NO	340.6		0.383	340.6
76	76 PCB-113	5.34e2	1.53	NO	1.51	5.097	37.78	37.80	1.007	1.007	NO	1.376		0.284	1.376
77	77 PCB-99	4.70e4	1.53	NO	1.32	5.097	37.88	37.88	1.010	1.009	NO	138.8		0.325	138.8
78	78 PCB-119	4.04e3	1.77	NO	1.81	5.097	38.36	38.36	0.987	0.987	NO	9.556		0.266	9.556
79	79 PCB-108/112	4.84e3	1.53	NO	1.44	5.097	38.52	38.53	0.991	0.991	NO	14.29		0.333	14.29
80	80 PCB-83			NO	1.83	5.097	38.69		0.996		YES			0.263	
81	81 PCB-97	2.57e4	1.56	NO	1.28	5.097	38.88	38.90	1.000	1.001	NO	85.43		0.375	85.43
82	82 PCB-86			NO	1.12	5.097	39.05		1.005		YES			0.430	
83	83 PCB-87/117/125	3.39e4	1.61	NO	1.56	5.097	39.17	39.18	1.008	1.008	NO	92.77		0.309	92.77
84	84 PCB-111/115	1.77e3	1.72	NO	1.91	5.097	39.33	39.35	1.012	1.012	NO	3.952		0.252	3.952
85	85 PCB-85/116	1.55e4	1.74	NO	1.41	5.097	39.46	39.44	1.015	1.015	NO	46.83		0.341	46.83
86	86 PCB-120			NO	2.01	5.097	39.72		1.022		YES			0.240	
87	87 PCB-110	1.28e5	1.62	NO	1.74	5.097	39.87	39.87	1.026	1.026	NO	312.5		0.276	312.5
88	88 PCB-82	8.31e3	1.68	NO	0.781	5.097	40.50	40.50	0.975	0.975	NO	32.46		0.456	32.46
89	89 PCB-124	4.81e3	1.50	NO	1.40	5.097	41.21	41.21	0.993	0.992	NO	10.52		0.255	10.52
90	90 PCB-107/109	1.01e4	1.51	NO	1.34	5.097	41.35	41.39	0.996	0.997	NO	22.91		0.265	22.91
91	91 PCB-123	1.96e3	1.36	NO	1.20	5.097	41.54	41.54	1.000	1.000	NO	4.994		0.297	4.994
92	92 PCB-106/118	1.11e5	1.58	NO	1.22	5.097	41.75	41.73	1.001	1.000	NO	273.3		0.278	273.3
93	93 PCB-114	4.38e3	1.59	NO	1.14	5.097	42.41	42.40	1.000	1.000	NO	6.261		0.410	6.261
94	94 PCB-122	1.92e3	1.59	NO	0.944	5.097	42.56	42.54	1.004	1.004	NO	3.314		0.496	3.314
95	95 PCB-105	6.90e4	1.59	NO	1.05	5.097	43.27	43.29	1.000	1.001	NO	104.5		0.444	104.5
96	96 PCB-127			NO	1.06	5.097	43.63		1.000		YES			0.419	

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	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
97	97 PCB-126	1.32e3	1.39	NO	1.17	5.097	45.61	45.61	1.000	1.000	NO	1.922		0.440	1.922
98	98 PCB-155			NO	1.04	5.097	37.06		1.000		YES			0.208	
99	99 PCB-150			NO	1.08	5.097	38.36		1.036		YES			0.200	
100	1... PCB-152			NO	1.19	5.097	38.84		1.049		YES			0.183	
101	1... PCB-145			NO	1.19	5.097	39.31		1.061		YES			0.182	
102	1... PCB-136	1.04e4	1.20	NO	1.02	5.097	39.64	39.66	1.070	1.071	NO	50.64		0.212	50.64
103	1... PCB-148	2.57e2	1.46	YES	0.842	5.097	39.75	39.77	1.073	1.074	NO	1.520		0.256	1.385
104	1... PCB-154	1.78e3	1.13	NO	0.919	5.097	40.26	40.28	1.087	1.087	NO	9.655		0.236	9.655
105	1... PCB-151	1.46e4	1.15	NO	0.787	5.097	40.93	40.94	1.105	1.105	NO	92.33		0.276	92.33
106	1... PCB-135	8.15e3	1.22	NO	0.922	5.097	41.15	41.17	1.111	1.112	NO	43.99		0.235	43.99
107	1... PCB-144	2.81e3	1.46	YES	0.789	5.097	41.26	41.26	1.114	1.114	NO	17.73		0.275	16.15
108	1... PCB-147	1.48e3	1.98	YES	0.834	5.097	41.39	41.41	1.117	1.118	NO	8.842		0.260	6.651
109	1... PCB-139/149	5.45e4	1.26	NO	0.948	5.097	41.68	41.67	1.125	1.125	NO	286.4		0.229	286.4
110	1... PCB-140	5.45e2	1.17	NO	0.794	5.097	41.86	41.86	1.130	1.130	NO	3.419		0.273	3.419
111	1... PCB-134/143	6.37e3	1.28	NO	0.759	5.097	42.33	42.35	0.974	0.975	NO	18.72		0.538	18.72
112	1... PCB-131/133	4.12e3	1.28	NO	0.821	5.097	42.65	42.63	0.982	0.981	NO	11.20		0.497	11.20
113	1... PCB-142			NO	0.754	5.097	42.81		0.985		YES			0.541	
114	1... PCB-146/165	3.03e4	1.27	NO	1.02	5.097	43.05	43.05	0.991	0.991	NO	66.50		0.401	66.50
115	1... PCB-132/161	4.34e4	1.29	NO	1.02	5.097	43.29	43.31	0.997	0.997	NO	94.53		0.398	94.53
116	1... PCB-153	1.77e5	1.30	NO	1.07	5.097	43.46	43.47	1.000	1.000	NO	369.6		0.381	369.6
117	1... PCB-168			NO	1.08	5.097	43.69		1.006		YES			0.379	
118	1... PCB-141	2.67e4	1.18	NO	1.03	5.097	44.22	44.22	1.000	1.000	NO	71.06		0.484	71.06
119	1... PCB-137	4.61e3	1.41	NO	1.11	5.097	44.62	44.62	1.009	1.009	NO	11.33		0.447	11.33
120	1... PCB-130	7.41e3	1.30	NO	0.885	5.097	44.71	44.72	1.012	1.012	NO	22.84		0.561	22.84
121	1... PCB-138/163/164	1.84e5	1.24	NO	1.28	5.097	45.09	45.10	1.001	1.001	NO	373.9		0.375	373.9
122	1... PCB-158/160	1.81e4	1.26	NO	1.24	5.097	45.36	45.34	1.007	1.006	NO	37.99		0.388	37.99
123	1... PCB-129	4.56e3	1.22	NO	0.867	5.097	45.59	45.61	1.012	1.012	NO	13.70		0.555	13.70
124	1... PCB-166	6.01e2	2.02	YES	1.14	5.097	46.08	46.08	0.993	0.993	NO	1.116		0.386	0.8266
125	1... PCB-159	3.00e3	1.40	NO	1.22	5.097	46.43	46.48	1.001	1.002	NO	5.225		0.316	5.225
126	1... PCB-128/162	2.28e4	1.31	NO	0.907	5.097	46.71	46.69	1.007	1.006	NO	53.42		0.423	53.42
127	1... PCB-167	6.82e3	1.32	NO	1.11	5.097	47.12	47.12	1.000	1.000	NO	13.18		0.353	13.18
128	1... PCB-156	1.63e4	1.24	NO	1.13	5.097	48.45	48.45	1.000	1.000	NO	32.31		0.367	32.31
129	1... PCB-157	3.63e3	1.19	NO	1.04	5.097	48.73	48.73	1.000	1.000	NO	7.787		0.417	7.787

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
130	1... PCB-169			NO	1.16	5.097	51.01		1.000		YES			0.396	
131	1... PCB-188			NO	1.29	5.097	43.09		1.001		YES			0.241	
132	1... PCB-184	1.38e2	1.16	NO	1.23	5.097	43.54	43.56	1.011	1.012	NO	0.3506		0.253	0.3506
133	1... PCB-179	2.18e4	1.10	NO	1.30	5.097	44.34	44.34	1.030	1.030	NO	52.57		0.240	52.57
134	1... PCB-176	6.25e3	1.06	NO	1.31	5.097	44.83	44.81	1.041	1.041	NO	14.91		0.238	14.91
135	1... PCB-186			NO	1.33	5.097	45.45		1.056		YES			0.234	
136	1... PCB-178	7.85e3	1.03	NO	0.943	5.097	45.97	45.97	1.068	1.068	NO	26.01		0.330	26.01
137	1... PCB-175	1.49e3	1.18	NO	0.956	5.097	46.33	46.33	1.076	1.076	NO	4.871		0.326	4.871
138	1... PCB-182/187	5.24e4	1.04	NO	1.07	5.097	46.50	46.48	1.080	1.080	NO	153.6		0.292	153.6
139	1... PCB-183	2.09e4	1.01	NO	1.02	5.097	46.82	46.82	1.088	1.088	NO	63.91		0.304	63.91
140	1... PCB-185	4.04e3	0.96	NO	1.41	5.097	47.50	47.50	0.955	0.955	NO	13.30		0.342	13.30
141	1... PCB-174	3.48e4	1.06	NO	1.35	5.097	47.87	47.88	0.962	0.962	NO	119.0		0.355	119.0
142	1... PCB-181	7.29e2	1.43	YES	1.47	5.097	47.98	47.96	0.964	0.964	NO	2.289		0.326	1.930
143	1... PCB-177	2.03e4	1.04	NO	1.28	5.097	48.16	48.16	0.968	0.968	NO	73.40		0.376	73.40
144	1... PCB-171	8.93e3	1.01	NO	1.32	5.097	48.47	48.47	0.974	0.974	NO	31.40		0.365	31.40
145	1... PCB-173	6.01e2	1.61	YES	1.19	5.097	48.89	48.88	0.983	0.982	NO	2.329		0.404	1.840
146	1... PCB-172	5.85e3	1.17	NO	1.38	5.097	49.36	49.36	0.992	0.992	NO	19.69		0.349	19.69
147	1... PCB-192			NO	1.83	5.097	49.57		0.996		YES			0.263	
148	1... PCB-180	8.36e4	1.05	NO	1.41	5.097	49.77	49.77	1.000	1.000	NO	274.0		0.340	274.0
149	1... PCB-193	5.72e3	1.05	NO	1.68	5.097	49.99	49.98	1.005	1.005	NO	15.79		0.287	15.79
150	1... PCB-191	1.59e3	1.21	NO	1.71	5.097	50.25	50.27	1.010	1.010	NO	4.314		0.281	4.314
151	1... PCB-170	2.94e4	1.06	NO	1.40	5.097	51.44	51.44	1.000	1.000	NO	113.1		0.392	113.1
152	1... PCB-190	8.16e3	1.09	NO	1.85	5.097	51.65	51.63	1.005	1.004	NO	23.80		0.297	23.80
153	1... PCB-189	1.74e3	1.09	NO	1.45	5.097	53.15	53.13	1.000	1.000	NO	4.952		0.265	4.952
154	1... PCB-202	3.84e3	0.77	NO	1.17	5.097	48.68	48.67	1.001	1.001	NO	14.09		0.225	14.09
155	1... PCB-201	2.21e3	1.06	YES	1.05	5.097	49.15	49.17	1.010	1.011	NO	8.986		0.250	8.248
156	1... PCB-204			NO	1.14	5.097	49.30		1.014		YES			0.231	
157	1... PCB-197	7.87e2	1.03	YES	1.13	5.097	49.62	49.66	1.020	1.021	NO	2.976		0.283	2.774
158	1... PCB-200	2.38e3	1.19	YES	1.07	5.097	50.55	50.57	1.039	1.040	NO	9.522		0.246	8.207
159	1... PCB-198	5.75e2	0.81	NO	0.794	5.097	52.10	52.12	1.071	1.072	NO	3.102		0.332	3.102
160	1... PCB-199	1.33e4	0.84	NO	0.809	5.097	52.24	52.26	1.074	1.074	NO	70.23		0.325	70.23
161	1... PCB-196/203	1.56e4	0.94	NO	0.838	5.097	52.53	52.56	1.080	1.081	NO	79.89		0.314	79.89
162	1... PCB-195	8.16e3	0.86	NO	1.04	5.097	53.84	53.83	0.984	0.983	NO	24.96		0.433	24.96



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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
163	1... PCB-194	2.11e4	0.91	NO	1.12	5.097	54.75	54.75	1.000	1.000	NO	60.47		0.405	60.47
164	1... PCB-205	1.08e3	0.99	NO	1.29	5.097	55.03	55.01	1.005	1.005	NO	2.669		0.351	2.669
165	1... PCB-208	4.71e3	1.31	NO	0.933	5.097	53.98	53.99	1.000	1.001	NO	14.20		0.246	14.20
166	1... PCB-207	1.93e3	1.36	NO	0.916	5.097	54.30	54.31	1.006	1.007	NO	5.914		0.250	5.914
167	1... PCB-206	1.04e4	1.44	NO	1.01	5.097	56.29	56.29	1.000	1.000	NO	45.27		0.342	45.27
168	1... PCB-209	1.39e4	1.18	NO	0.986	5.097	57.50	57.51	1.000	1.000	NO	65.07		0.328	65.07
169	1... 13C-PCB-1	1.10e6	3.40	NO	0.893	5.097	15.58	15.57	0.609	0.609	NO	1235	62.9	1.14	
170	1... 13C-PCB-3	1.18e6	3.19	NO	0.911	5.097	18.22	18.21	0.712	0.712	NO	1292	65.9	1.12	
171	1... 13C-PCB-4	1.00e6	1.63	NO	0.600	5.097	19.59	19.57	0.766	0.765	NO	1672	85.2	0.758	
172	1... 13C-PCB-9	1.66e6	1.62	NO	0.970	5.097	21.40	21.40	0.837	0.837	NO	1710	87.2	0.469	
173	1... 13C-PCB-11	1.55e6	1.62	NO	0.962	5.097	24.86	24.86	0.972	0.972	NO	1613	82.2	0.473	
174	1... 13C-PCB-19	6.58e5	1.05	NO	0.499	5.097	23.82	23.82	0.931	0.931	NO	1318	67.2	5.60	
175	1... 13C-PCB-32	1.06e6	1.07	NO	0.744	5.097	26.81	26.81	1.048	1.048	NO	1423	72.6	3.75	
176	1... 13C-PCB-28	1.61e6	1.08	NO	1.06	5.097	28.83	28.81	1.004	1.003	NO	1741	88.7	5.18	
177	1... 13C-PCB-37	1.58e6	1.09	NO	0.989	5.097	32.81	32.89	1.143	1.145	NO	1837	93.6	5.58	
178	1... 13C-PCB-54	9.62e5	0.81	NO	0.999	5.097	27.65	27.66	0.753	0.753	NO	1623	82.7	1.35	
179	1... 13C-PCB-52	8.22e5	0.78	NO	0.804	5.097	31.32	31.33	0.853	0.853	NO	1724	87.9	1.68	
180	1... 13C-PCB-47	8.81e5	0.82	NO	0.857	5.097	31.85	31.85	0.867	0.867	NO	1733	88.4	1.57	
181	1... 13C-PCB-70	1.07e6	0.82	NO	0.996	5.097	35.47	35.47	0.965	0.966	NO	1811	92.3	1.35	
182	1... 13C-PCB-80	1.10e6	0.81	NO	1.03	5.097	35.91	35.90	0.977	0.977	NO	1800	91.7	1.31	
183	1... 13C-PCB-81	1.09e6	0.81	NO	0.988	5.097	39.10	39.10	1.064	1.064	NO	1857	94.6	1.37	
184	1... 13C-PCB-77	1.08e6	0.82	NO	0.969	5.097	39.72	39.72	1.081	1.081	NO	1874	95.5	1.39	
185	1... 13C-PCB-104	6.24e5	1.60	NO	1.02	5.097	32.51	32.57	0.827	0.828	NO	1714	87.4	0.842	
186	1... 13C-PCB-95	5.20e5	1.63	NO	0.805	5.097	35.77	35.77	0.910	0.910	NO	1805	92.0	1.06	
187	1... 13C-PCB-101	5.03e5	1.62	NO	0.793	5.097	37.52	37.52	0.954	0.954	NO	1772	90.3	1.08	
188	1... 13C-PCB-97	4.60e5	1.62	NO	0.696	5.097	38.86	38.86	0.988	0.988	NO	1844	94.0	1.23	
189	1... 13C-PCB-123	6.43e5	1.64	NO	0.933	5.097	41.52	41.52	1.056	1.056	NO	1925	98.1	0.918	
190	1... 13C-PCB-118	6.52e5	1.67	NO	0.986	5.097	41.71	41.71	1.061	1.061	NO	1848	94.2	0.868	
191	1... 13C-PCB-114	1.20e6	1.65	NO	1.55	5.097	42.36	42.39	0.908	0.908	NO	2167	110	1.10	
192	1... 13C-PCB-105	1.23e6	1.63	NO	1.57	5.097	43.28	43.26	0.927	0.927	NO	2186	111	1.08	
193	1... 13C-PCB-127	1.29e6	1.63	NO	1.62	5.097	43.61	43.62	0.935	0.935	NO	2211	113	1.04	
194	1... 13C-PCB-126	1.15e6	1.64	NO	1.57	5.097	45.57	45.59	0.976	0.977	NO	2044	104	1.08	
195	1... 13C-PCB-155	3.94e5	1.35	NO	0.615	5.097	37.06	37.04	0.942	0.942	NO	1790	91.3	0.380	

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	#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
196	1...	13C-PCB-153	8.79e5	1.26	NO	1.36	5.097	43.42	43.45	0.930	0.931	NO	1796	91.6	1.08	
197	1...	13C-PCB-141	7.19e5	1.28	NO	1.13	5.097	44.21	44.20	0.947	0.947	NO	1778	90.6	1.30	
198	1...	13C-PCB-138	7.54e5	1.30	NO	1.18	5.097	45.06	45.06	0.965	0.966	NO	1774	90.4	1.24	
199	1...	13C-PCB-159	9.24e5	1.30	NO	1.44	5.097	46.40	46.40	0.994	0.994	NO	1791	91.3	1.02	
200	2...	13C-PCB-167	9.15e5	1.30	NO	1.44	5.097	47.10	47.10	1.009	1.009	NO	1772	90.3	1.02	
201	2...	13C-PCB-156	8.77e5	1.26	NO	1.40	5.097	48.43	48.43	1.038	1.038	NO	1751	89.3	1.05	
202	2...	13C-PCB-157	8.82e5	1.31	NO	1.40	5.097	48.72	48.71	1.044	1.044	NO	1760	89.7	1.05	
203	2...	13C-PCB-169	8.06e5	1.30	NO	1.33	5.097	50.99	50.99	1.093	1.093	NO	1689	86.1	1.10	
204	2...	13C-PCB-188	6.28e5	0.46	NO	1.41	5.097	43.05	43.05	0.926	0.926	NO	1764	89.9	0.673	
205	2...	13C-PCB-180	4.24e5	0.45	NO	0.929	5.097	49.76	49.76	1.070	1.070	NO	1806	92.1	1.02	
206	2...	13C-PCB-170	3.63e5	0.43	NO	0.794	5.097	51.42	51.42	1.106	1.106	NO	1811	92.3	1.19	
207	2...	13C-PCB-189	4.74e5	0.45	NO	1.04	5.097	53.13	53.13	1.143	1.143	NO	1796	91.5	0.908	
208	2...	13C-PCB-202	4.58e5	0.88	NO	1.04	5.097	48.66	48.64	1.046	1.046	NO	1750	89.2	0.632	
209	2...	13C-PCB-194	6.14e5	0.92	NO	0.768	5.097	54.72	54.74	0.995	0.995	NO	1979	101	1.51	
210	2...	13C-PCB-208	6.98e5	0.80	NO	0.991	5.097	53.96	53.96	0.981	0.981	NO	1743	88.8	1.08	
211	2...	13C-PCB-206	4.46e5	0.81	NO	0.552	5.097	56.26	56.27	1.023	1.023	NO	1998	102	1.94	
212	2...	13C-PCB-209	4.26e5	1.20	NO	0.396	5.097	57.50	57.50	1.046	1.045	NO	2658	135	0.926	
213	2...	13C-PCB-15	1.96e6	1.61	NO	1.00	5.097	25.58	25.58	1.000	0.000	NO	1962	100	0.455	
214	2...	13C-PCB-31	1.71e6	1.09	NO	1.00	5.097	28.72	28.72	1.000	0.000	NO	1962	100	5.51	
215	2...	13C-PCB-60	1.16e6	0.81	NO	1.00	5.097	36.74	36.74	1.000	0.000	NO	1962	100	1.35	
216	2...	13C-PCB-111	7.02e5	1.68	NO	1.00	5.097	39.33	39.33	1.000	0.000	NO	1962	100	0.856	
217	2...	13C-PCB-128	7.04e5	1.28	NO	1.00	5.097	46.67	46.67	1.000	0.000	NO	1962	100	1.47	
218	2...	13C-PCB-182	4.96e5	0.46	NO	1.00	5.097	46.50	46.50	0.000	0.000	NO	1962	100	0.948	
219	2...	13C-PCB-205	7.92e5	0.94	NO	1.00	5.097	55.01	55.00	1.000	0.000	NO	1962	100	1.16	
220	2...	13C-PCB-79	1.16e6	0.83	NO	1.07	5.097	37.84	37.86	1.030	1.030	NO	1823	92.9	1.26	
221	2...	13C-PCB-178	4.32e5	0.46	NO	0.766	5.097	45.95	45.93	0.988	0.988	NO	1571	80.1	0.850	
222	2...	13C-PCB-79	1.16e6	0.83	NO	1.08	5.097	37.84	37.86	0.968	0.968	NO	1926	98.2	1.35	
223	2...	13C-PCB-178	4.32e5	0.46	NO	1.05	5.097	45.94	45.93	0.923	0.923	NO	1902	97.0	1.04	
224	2...	Total Mono-PCBs				1.17	5.097	0.00		0.000		NO	12.88		0.781	15.58
225	2...	Total Di-PCBs				1.05	5.097	0.00		0.000		NO	152.6		4.80	155.2
226	2..	2nd Function Tri-PCBs				1.08	5.097	0.00		0.000		NO	155.1		3.02	155.1
227	2..	3rd Function Tri-PCBs				0.983	5.097	0.00		0.000		NO	512.5	>667.6 ✓	7.40	515.8
228	2..	Total Tetra-PCBs				1.08	5.097	0.00		0.000		NO	1966		10.8	1976

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Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
229	2... 3rd Function Penta-PCBs				1.32	5.097	0.00		0.000		NO	1809		9.74	1809
230	2... 4th Function Penta-PCBs				1.07	5.097	0.00		0.000		NO	116.0	>1925 ✓	2.21	116.0
231	2... 3rd Function Hexa-PCBs				0.951	5.097	0.00		0.000		NO	486.5	>1689.5 ✓	3.03	510.7
232	2... 4th Function Hexa-PCBs				1.03	5.097	0.00		0.000		NO	1203		8.55	1204
233	2... Total Hepta-PCBs				1.36	5.097	0.00		0.000		NO	1009		7.10	1013
234	2... 4th Function Octa-PCBs				1.00	5.097	0.00		0.000		NO	167.3	>255.4 ✓	2.16	186.5
235	2... 5th Function Octa-PCBs				1.15	5.097	0.00		0.000		NO	88.10		1.19	88.10
236	2... Total Nona-PCBs				0.952	5.097	0.00		0.000		NO	65.38		0.839	65.38
237	2... Deca-CB				0.986	5.097	0.00		0.000		NO	65.07		0.328	65.07
238	2... Total PCBs														

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

**Total Mono-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-1	15.58	15.59	2.833e4	6.273e3	1.591e3	4.300e2	3.70	YES	2.021e3	0.00000	2.7030	0.265
2	PCB-2	18.00	18.00	7.982e4	2.217e4	4.581e3	1.359e3	3.37	NO	5.940e3	8.3712	8.3712	0.254
3	PCB-3	18.22	18.24	3.849e4	1.180e4	2.392e3	7.111e2	3.36	NO	3.103e3	4.5039	4.5039	0.262

**Total Di-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-4/10	19.65	19.60	8.162e4	5.444e4	5.267e3	3.537e3	1.49	NO	8.804e3	13.795	13.795	0.728
2	PCB-7/9	21.46	21.45	1.336e4	1.284e4	1.304e3	1.405e3	0.93	YES	2.709e3	0.00000	2.6384	0.588
3	PCB-6	22.11	22.10	5.248e4	3.432e4	3.264e3	2.264e3	1.44	NO	5.528e3	6.3917	6.3917	0.551
4	PCB-5/8	22.52	22.51	2.028e5	1.256e5	1.336e4	8.595e3	1.55	NO	2.195e4	26.176	26.176	0.569
5	PCB-11	24.88	24.88	5.454e5	3.451e5	3.499e4	2.275e4	1.54	NO	5.774e4	64.867	64.867	0.552
6	PCB-12/13	25.31	25.25	4.097e4	2.226e4	2.851e3	1.744e3	1.63	NO	4.595e3	5.6637	5.6637	0.605
7	PCB-15	25.60	25.60	2.589e5	1.596e5	1.775e4	1.145e4	1.55	NO	2.920e4	35.704	35.704	0.601

**2nd Function Tri-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-19	23.85	23.84	4.447e4	4.134e4	3.104e3	2.761e3	1.12	NO	5.866e3	15.817	15.817	0.642
2	PCB-18	25.52	25.52	2.168e5	1.986e5	1.363e4	1.319e4	1.03	NO	2.682e4	60.765	60.765	0.532
3	PCB-17	25.70	25.69	9.685e4	9.375e4	6.538e3	6.459e3	1.01	NO	1.300e4	31.747	31.747	0.574
4	PCB-24/27	26.30	26.27	2.463e4	2.959e4	1.891e3	1.862e3	1.02	NO	3.753e3	6.4250	6.4250	0.402
5	PCB-16/32	26.83	26.83	1.041e5	1.001e5	1.021e4	9.953e3	1.03	NO	2.016e4	40.360	40.360	0.470

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3rd Function Tri-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-26	28.20	28.22	1.481e5	1.308e5	1.137e4	1.013e4	1.12	NO	2.150e4	27.729	27.729	0.546
2	PCB-25	28.35	28.37	6.726e4	6.264e4	5.266e3	4.903e3	1.07	NO	1.017e4	13.031	13.031	0.543
3	PCB-31	28.73	28.74	8.389e5	7.640e5	6.442e4	5.922e4	1.09	NO	1.236e5	145.23	145.23	0.497
4	PCB-28	28.83	28.85	8.695e5	8.327e5	6.558e4	6.252e4	1.05	NO	1.281e5	152.13	152.13	0.503
5	PCB-20/21/33	29.47	29.50	3.297e5	3.164e5	2.638e4	2.531e4	1.04	NO	5.169e4	66.838	66.838	0.548
6	PCB-22	29.91	29.93	2.450e5	2.337e5	1.891e4	1.827e4	1.03	NO	3.718e4	46.518	46.518	0.530
7	PCB-35	32.47	32.46	2.003e4	1.631e4	1.845e3	1.396e3	1.32	YES	3.241e3	0.00000	3.3864	0.500
8	PCB-37	32.91	32.91	3.380e5	3.058e5	2.612e4	2.347e4	1.11	NO	4.959e4	60.981	60.981	0.517

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Total Tetra-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-54	27.68	27.68	8.948e3	1.210e4	7.157e2	8.923e2	0.80	NO	1.608e3	3.0361	3.0361	0.306
2	PCB-50	28.89	28.91	3.026e3	3.039e3	2.417e2	2.635e2	0.92	YES	5.052e2	0.00000	1.0811	0.375
3	PCB-53	29.56	29.56	7.897e4	9.594e4	5.998e3	7.274e3	0.82	NO	1.327e4	31.767	31.767	0.399
4	PCB-51	29.92	29.91	3.940e4	4.839e4	2.954e3	3.570e3	0.83	NO	6.523e3	14.610	14.610	0.373
5	PCB-45	30.36	30.34	5.171e4	5.768e4	3.906e3	4.645e3	0.84	NO	8.552e3	23.768	23.768	0.463
6	PCB-46	30.86	30.84	2.177e4	2.932e4	1.639e3	2.260e3	0.73	NO	3.899e3	11.198	11.198	0.478
7	PCB-52/69	31.36	31.34	6.382e5	7.890e5	4.943e4	6.094e4	0.81	NO	1.104e5	225.71	225.71	0.341
8	PCB-43/49	31.65	31.66	4.382e5	5.610e5	3.503e4	4.477e4	0.78	NO	7.980e4	187.36	187.36	0.391
9	PCB-47	31.87	31.88	2.061e5	2.525e5	1.673e4	2.103e4	0.80	NO	3.776e4	91.159	91.159	0.433
10	PCB-48/75	31.98	32.01	1.132e5	1.365e5	9.973e3	1.167e4	0.85	NO	2.165e4	43.006	43.006	0.356
11	PCB-44	32.68	32.74	4.056e5	5.307e5	3.033e4	3.899e4	0.78	NO	6.931e4	187.16	187.16	0.484
12	PCB-42/59	32.91	32.96	1.874e5	2.315e5	1.373e4	1.703e4	0.81	NO	3.076e4	65.219	65.219	0.380
13	PCB-41/64/71/72	33.52	33.54	4.924e5	6.127e5	4.004e4	4.910e4	0.82	NO	8.914e4	167.07	167.07	0.336
14	PCB-68	33.78	33.78	5.381e3	6.349e3	4.802e2	5.929e2	0.81	NO	1.073e3	1.8688	1.8688	0.312
15	PCB-40	34.00	34.01	6.059e4	7.466e4	4.506e3	5.498e3	0.82	NO	1.000e4	36.977	36.977	0.663
16	PCB-57	34.38	34.40	5.549e3	6.344e3	4.334e2	5.230e2	0.83	NO	9.563e2	1.5086	1.5086	0.261
17	PCB-67	34.69	34.69	2.794e4	2.960e4	2.229e3	2.375e3	0.94	YES	4.603e3	0.00000	7.1125	0.280
18	PCB-58	34.82	34.81	4.742e3	8.429e3	3.718e2	6.887e2	0.54	YES	1.061e3	0.00000	1.3022	0.252
19	PCB-63	34.97	34.97	3.733e4	4.948e4	2.928e3	3.823e3	0.77	NO	6.751e3	11.555	11.555	0.283
20	PCB-74	35.28	35.27	4.406e5	5.594e5	3.379e4	4.273e4	0.79	NO	7.653e4	118.46	118.46	0.256
21	PCB-61/70	35.49	35.49	9.933e5	1.282e6	7.519e4	9.684e4	0.78	NO	1.720e5	299.36	299.36	0.288
22	PCB-76/66	35.68	35.70	8.420e5	1.079e6	6.908e4	8.743e4	0.79	NO	1.565e5	246.57	246.57	0.261
23	PCB-55	36.26	36.22	9.807e3	1.603e4	8.992e2	1.354e3	0.66	NO	2.253e3	3.4447	3.4447	0.259
24	PCB-56/60	36.75	36.76	5.059e5	6.431e5	3.970e4	5.030e4	0.79	NO	8.999e4	158.01	158.01	0.298
25	PCB-79	37.88	37.89	1.568e4	1.809e4	1.260e3	1.503e3	0.84	NO	2.763e3	4.3372	4.3372	0.266
26	PCB-81	39.12	39.14	9.634e3	9.480e3	2.773e2	3.092e2	0.90	YES	5.865e2	0.00000	0.94286	0.297
27	PCB-77	39.74	39.74	1.096e5	1.324e5	9.207e3	1.115e4	0.83	NO	2.036e4	32.622	32.622	0.283

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3rd Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-96	33.90	33.84	7.426e3	5.687e3	5.630e2	3.879e2	1.45	NO	9.509e2	2.5911	2.5911	0.325
2	PCB-103	34.45	34.40	1.360e4	9.951e3	1.037e3	7.600e2	1.37	NO	1.797e3	6.0344	6.0344	0.401
3	PCB-100	34.82	34.75	1.581e4	7.547e3	1.187e3	6.713e2	1.77	NO	1.859e3	6.1284	6.1284	0.394
4	PCB-94	35.25	35.25	6.333e3	4.400e3	5.352e2	3.145e2	1.70	NO	8.496e2	3.3754	3.3754	0.435
5	PCB-95/98/102	35.72	35.79	5.045e5	3.167e5	4.041e4	2.536e4	1.59	NO	6.577e4	205.84	205.84	0.343
6	PCB-93	35.87	35.87	5.134e4	3.099e4	8.354e2	6.105e2	1.37	NO	1.446e3	5.8295	5.8295	0.441
7	PCB-88/91	36.20	36.22	1.202e5	6.579e4	9.106e3	5.216e3	1.75	NO	1.432e4	50.704	50.704	0.388
8	PCB-121	36.31	36.29	3.823e3	2.319e3	7.129e1	4.626e1	1.54	NO	1.175e2	0.25919	0.25919	0.241
9	PCB-84/92	37.15	37.15	2.692e5	1.807e5	2.096e4	1.404e4	1.49	NO	3.500e4	134.14	134.14	0.422
10	PCB-89	37.34	37.33	8.328e3	4.652e3	6.196e2	3.502e2	1.77	NO	9.698e2	3.4232	3.4232	0.389
11	PCB-90/101	37.53	37.54	7.588e5	4.638e5	6.116e4	3.686e4	1.66	NO	9.802e4	340.55	340.55	0.383
12	PCB-113	37.78	37.80	1.207e4	8.053e3	3.230e2	2.112e2	1.53	NO	5.342e2	1.3763	1.3763	0.284
13	PCB-99	37.88	37.88	3.458e5	2.316e5	2.841e4	1.860e4	1.53	NO	4.701e4	138.79	138.79	0.325
14	PCB-119	38.36	38.36	3.511e4	1.786e4	2.583e3	1.462e3	1.77	NO	4.044e3	9.5565	9.5565	0.266
15	PCB-108/112	38.52	38.53	3.713e4	2.549e4	2.929e3	1.913e3	1.53	NO	4.842e3	14.294	14.294	0.333
16	PCB-97	38.88	38.90	1.940e5	1.263e5	1.565e4	1.003e4	1.56	NO	2.567e4	85.430	85.430	0.375
17	PCB-87/117/125	39.17	39.18	2.691e5	1.722e5	2.090e4	1.300e4	1.61	NO	3.390e4	92.769	92.769	0.309
18	PCB-111/115	39.33	39.35	1.538e4	9.088e3	1.120e3	6.500e2	1.72	NO	1.770e3	3.9517	3.9517	0.252
19	PCB-85/116	39.46	39.44	1.206e5	7.164e4	9.846e3	5.644e3	1.74	NO	1.549e4	46.833	46.833	0.341
20	PCB-110	39.87	39.87	1.016e6	6.309e5	7.891e4	4.877e4	1.62	NO	1.277e5	312.53	312.53	0.276
21	PCB-82	40.50	40.50	6.397e4	4.123e4	5.205e3	3.106e3	1.68	NO	8.311e3	32.458	32.458	0.456
22	PCB-124	41.21	41.21	2.857e4	2.106e4	2.888e3	1.927e3	1.50	NO	4.815e3	10.518	10.518	0.255
23	PCB-107/109	41.35	41.39	7.537e4	4.895e4	6.061e3	4.012e3	1.51	NO	1.007e4	22.906	22.906	0.265
24	PCB-123	41.54	41.54	1.568e4	1.102e4	1.131e3	8.296e2	1.36	NO	1.961e3	4.9945	4.9945	0.297
25	PCB-106/118	41.75	41.73	8.537e5	5.294e5	6.790e4	4.288e4	1.58	NO	1.108e5	273.27	273.27	0.278

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4th Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-114	42.41	42.40	3.219e4	2.098e4	2.685e3	1.692e3	1.59	NO	4.377e3	6.2611	6.2611	0.410
2	PCB-122	42.56	42.54	1.679e4	9.952e3	1.176e3	7.416e2	1.59	NO	1.917e3	3.3145	3.3145	0.496
3	PCB-105	43.27	43.29	5.162e5	3.309e5	4.232e4	2.666e4	1.59	NO	6.898e4	104.49	104.49	0.444
4	PCB-126	45.61	45.61	9.297e3	6.889e3	7.683e2	5.515e2	1.39	NO	1.320e3	1.9218	1.9218	0.440

3rd Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-136	39.64	39.66	7.330e4	5.868e4	5.664e3	4.719e3	1.20	NO	1.038e4	50.643	50.643	0.212
2	PCB-148	39.75	39.77	2.136e3	1.984e3	1.525e2	1.045e2	1.46	YES	2.569e2	0.00000	1.3846	0.258
3	PCB-154	40.26	40.28	1.174e4	1.011e4	9.441e2	8.377e2	1.13	NO	1.782e3	9.6550	9.6550	0.236
4	PCB-151	40.93	40.94	9.920e4	8.457e4	7.793e3	6.791e3	1.15	NO	1.458e4	92.331	92.331	0.276
5	PCB-135	41.15	41.17	5.593e4	4.695e4	4.485e3	3.663e3	1.22	NO	8.148e3	43.993	43.993	0.235
6	PCB-144	41.26	41.26	2.172e4	1.505e4	1.667e3	1.143e3	1.46	YES	2.809e3	0.00000	16.154	0.275
7	PCB-147	41.39	41.41	1.188e4	6.344e3	9.842e2	4.976e2	1.98	YES	1.482e3	0.00000	6.6508	0.260
8	PCB-139/149	41.68	41.67	3.912e5	3.131e5	3.041e4	2.411e4	1.26	NO	5.452e4	286.43	286.43	0.229
9	PCB-140	41.86	41.86	4.298e3	3.348e3	2.934e2	2.515e2	1.17	NO	5.449e2	3.4190	3.4190	0.273



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4th Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-134/143	42.33	42.35	4.284e4	3.289e4	3.571e3	2.796e3	1.28	NO	6.367e3	18.720	18.720	0.538
2	PCB-131/133	42.65	42.63	2.888e4	2.293e4	2.314e3	1.807e3	1.28	NO	4.121e3	11.204	11.204	0.497
3	PCB-146/165	43.05	43.05	2.149e5	1.638e5	1.698e4	1.332e4	1.27	NO	3.029e4	66.497	66.497	0.401
4	PCB-132/161	43.29	43.31	3.134e5	2.434e5	2.442e4	1.896e4	1.29	NO	4.338e4	94.532	94.532	0.398
5	PCB-153	43.46	43.47	1.271e6	9.787e5	1.003e5	7.703e4	1.30	NO	1.773e5	369.63	369.63	0.381
6	PCB-141	44.22	44.22	1.855e5	1.509e5	1.449e4	1.225e4	1.18	NO	2.674e4	71.057	71.057	0.484
7	PCB-137	44.62	44.62	3.877e4	2.743e4	2.701e3	1.911e3	1.41	NO	4.612e3	11.332	11.332	0.447
8	PCB-130	44.71	44.72	5.704e4	4.443e4	4.188e3	3.225e3	1.30	NO	7.413e3	22.844	22.844	0.561
9	PCB-138/163/164	45.09	45.10	1.098e6	8.745e5	1.023e5	8.218e4	1.24	NO	1.844e5	373.95	373.95	0.375
10	PCB-158/160	45.36	45.34	1.224e5	9.826e4	1.010e4	8.007e3	1.26	NO	1.810e4	37.992	37.992	0.388
11	PCB-129	45.59	45.61	3.072e4	2.564e4	2.508e3	2.054e3	1.22	NO	4.562e3	13.698	13.698	0.555
12	PCB-166	46.08	46.08	5.150e3	2.573e3	4.025e2	1.988e2	2.02	YES	6.013e2	0.00000	0.82663	0.336
13	PCB-159	46.43	46.48	2.099e4	1.658e4	1.746e3	1.250e3	1.40	NO	2.995e3	5.2250	5.2250	0.316
14	PCB-128/162	46.71	46.69	1.609e5	1.257e5	1.294e4	9.898e3	1.31	NO	2.284e4	53.416	53.416	0.423
15	PCB-167	47.12	47.12	4.828e4	3.492e4	3.881e3	2.934e3	1.32	NO	6.815e3	13.176	13.176	0.353
16	PCB-156	48.45	48.45	1.104e5	8.879e4	9.018e3	7.253e3	1.24	NO	1.627e4	32.311	32.311	0.367
17	PCB-157	48.73	48.73	2.307e4	1.820e4	1.976e3	1.658e3	1.19	NO	3.634e3	7.7868	7.7868	0.417

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## Total Hepta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-184	43.54	43.56	1.000e3	1.101e3	7.433e1	6.392e1	1.16	NO	1.383e2	0.35056	0.35056	0.253
2	PCB-179	44.34	44.34	1.458e5	1.316e5	1.145e4	1.040e4	1.10	NO	2.185e4	52.567	52.567	0.240
3	PCB-176	44.83	44.81	4.064e4	3.828e4	3.221e3	3.026e3	1.06	NO	6.247e3	14.907	14.907	0.238
4	PCB-178	45.97	45.97	4.677e4	4.707e4	3.978e3	3.877e3	1.03	NO	7.854e3	26.006	26.006	0.330
5	PCB-175	46.33	46.33	9.848e3	8.591e3	8.066e2	6.848e2	1.18	NO	1.491e3	4.8708	4.8708	0.326
6	PCB-182/187	46.50	46.48	3.320e5	3.134e5	2.678e4	2.566e4	1.04	NO	5.244e4	153.61	153.61	0.292
7	PCB-183	46.82	46.82	1.302e5	1.342e5	1.052e4	1.042e4	1.01	NO	2.093e4	63.910	63.910	0.304
8	PCB-185	47.50	47.50	2.427e4	2.351e4	1.978e3	2.060e3	0.96	NO	4.037e3	13.295	13.295	0.342
9	PCB-174	47.87	47.88	2.211e5	2.063e5	1.791e4	1.689e4	1.06	NO	3.481e4	119.02	119.02	0.355
10	PCB-181	47.98	47.96	1.204e4	1.038e4	4.294e2	2.999e2	1.43	YES	7.292e2	0.00000	1.9298	0.326
11	PCB-177	48.16	48.16	1.203e5	1.220e5	1.035e4	9.911e3	1.04	NO	2.026e4	73.403	73.403	0.376
12	PCB-171	48.47	48.47	5.609e4	5.622e4	4.480e3	4.447e3	1.01	NO	8.927e3	31.395	31.395	0.365
13	PCB-173	48.89	48.88	5.644e3	3.601e3	3.706e2	2.307e2	1.61	YES	6.013e2	0.00000	1.8397	0.404
14	PCB-172	49.36	49.36	4.134e4	3.428e4	3.149e3	2.701e3	1.17	NO	5.850e3	19.690	19.690	0.349
15	PCB-180	49.77	49.77	5.366e5	5.032e5	4.277e4	4.080e4	1.05	NO	8.357e4	274.03	274.03	0.340
16	PCB-193	49.99	49.98	3.402e4	3.413e4	2.934e3	2.786e3	1.05	NO	5.720e3	15.790	15.790	0.287
17	PCB-191	50.25	50.27	9.274e3	8.449e3	8.713e2	7.224e2	1.21	NO	1.594e3	4.3136	4.3136	0.281
18	PCB-170	51.44	51.44	1.956e5	1.840e5	1.510e4	1.426e4	1.06	NO	2.936e4	113.13	113.13	0.392
19	PCB-190	51.65	51.63	5.260e4	4.945e4	4.261e3	3.902e3	1.09	NO	8.163e3	23.801	23.801	0.297
20	PCB-189	53.15	53.13	1.278e4	1.201e4	9.071e2	8.302e2	1.09	NO	1.737e3	4.9522	4.9522	0.265

## 4th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-202	48.68	48.67	2.049e4	2.588e4	1.676e3	2.166e3	0.77	NO	3.842e3	14.089	14.089	0.225
2	PCB-201	49.15	49.17	1.385e4	1.323e4	1.136e3	1.072e3	1.06	YES	2.208e3	0.00000	8.2481	0.250
3	PCB-197	49.62	49.66	4.439e3	4.667e3	3.988e2	3.880e2	1.03	YES	7.868e2	0.00000	2.7739	0.233
4	PCB-200	50.55	50.57	1.492e4	1.307e4	1.294e3	1.085e3	1.19	YES	2.379e3	0.00000	8.2067	0.246
5	PCB-198	52.10	52.12	3.411e3	4.793e3	2.581e2	3.167e2	0.81	NO	5.748e2	3.1022	3.1022	0.332
6	PCB-199	52.24	52.26	8.309e4	9.274e4	6.073e3	7.193e3	0.84	NO	1.327e4	70.229	70.229	0.325
7	PCB-196/203	52.53	52.56	1.008e5	1.070e5	7.574e3	8.057e3	0.94	NO	1.563e4	79.890	79.890	0.314

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5th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-195	53.84	53.83	6.442e4	7.264e4	3.778e3	4.382e3	0.86	NO	8.160e3	24.964	24.964	0.433
2	PCB-194	54.75	54.75	1.692e5	1.924e5	1.009e4	1.103e4	0.91	NO	2.112e4	60.469	60.469	0.405
3	PCB-205	55.03	55.01	1.004e4	9.347e3	5.350e2	5.421e2	0.99	NO	1.077e3	2.6695	2.6695	0.351

Total Nona-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-208	53.98	53.99	4.283e4	3.303e4	2.668e3	2.044e3	1.31	NO	4.712e3	14.202	14.202	0.246
2	PCB-207	54.30	54.31	1.820e4	1.330e4	1.110e3	8.168e2	1.36	NO	1.927e3	5.9143	5.9143	0.250
3	PCB-206	56.29	56.29	1.045e5	7.423e4	6.110e3	4.251e3	1.44	NO	1.036e4	45.269	45.269	0.342

Deca-CB

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-209	57.50	57.51	1.426e5	1.200e5	7.523e3	6.400e3	1.18	NO	1.392e4	65.073	65.073	0.328

Total PCBs

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

Total Mono-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-1	15.58	15.57	1.424e7	4.309e6	8.524e5	2.508e5	3.40	NO	1.103e6	1234.9		1.14
2	13C-PCB-3	18.22	18.21	1.446e7	4.585e6	8.958e5	2.811e5	3.19	NO	1.177e6	1292.2		1.12

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**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-4	19.59	19.57	1.002e7	6.179e6	6.220e5	3.811e5	1.63	NO	1.003e6	1672.3		0.758
2	13C-PCB-9	21.40	21.40	1.608e7	9.968e6	1.024e6	6.335e5	1.62	NO	1.658e6	1709.9		0.469
3	13C-PCB-11	24.86	24.86	1.462e7	9.045e6	9.592e5	5.910e5	1.62	NO	1.550e6	1612.6		0.473
4	13C-PCB-15	25.58	25.58	1.870e7	1.179e7	1.211e6	7.509e5	1.61	NO	1.961e6	1961.8		0.455

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-19	23.82	23.82	5.084e6	4.854e6	3.367e5	3.210e5	1.05	NO	6.576e5	1318.5		5.60
2	13C-PCB-32	26.81	26.81	8.370e6	7.827e6	5.474e5	5.116e5	1.07	NO	1.059e6	1423.5		3.75

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.72	28.72	1.132e7	1.047e7	8.914e5	8.154e5	1.09	NO	1.707e6	1961.8		5.51
2	13C-PCB-28	28.83	28.81	1.122e7	1.063e7	8.355e5	7.762e5	1.08	NO	1.612e6	1740.6		5.18
3	13C-PCB-37	32.81	32.89	1.114e7	1.027e7	8.233e5	7.576e5	1.09	NO	1.581e6	1837.1		5.58

**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.65	27.66	5.754e6	7.014e6	4.308e5	5.313e5	0.81	NO	9.622e5	1623.2		1.35
2	13C-PCB-52	31.32	31.33	4.670e6	5.922e6	3.598e5	4.625e5	0.78	NO	8.223e5	1723.9		1.68
3	13C-PCB-47	31.85	31.85	4.775e6	5.841e6	3.962e5	4.853e5	0.82	NO	8.815e5	1733.5		1.57
4	13C-PCB-70	35.47	35.47	6.285e6	7.661e6	4.816e5	5.878e5	0.82	NO	1.069e6	1810.6		1.35
5	13C-PCB-80	35.91	35.90	6.259e6	7.778e6	4.912e5	6.065e5	0.81	NO	1.098e6	1799.9		1.31
6	13C-PCB-60	36.74	36.74	6.619e6	8.177e6	5.216e5	6.420e5	0.81	NO	1.164e6	1961.8		1.35
7	13C-PCB-79	37.84	37.86	6.643e6	7.984e6	5.245e5	6.313e5	0.83	NO	1.156e6	1822.9		1.26
8	13C-PCB-81	39.10	39.10	6.116e6	7.435e6	4.881e5	5.999e5	0.81	NO	1.088e6	1856.8		1.37
9	13C-PCB-77	39.72	39.72	5.912e6	7.239e6	4.838e5	5.929e5	0.82	NO	1.077e6	1873.8		1.39

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Dataset: U:\VG11.PRO\Results\201026K4\201026K4-10.qld

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ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

3rd Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.51	32.57	4.647e6	2.895e6	3.839e5	2.400e5	1.60	NO	6.240e5	1714.4		0.842
2	13C-PCB-95	35.77	35.77	4.263e6	2.630e6	3.229e5	1.975e5	1.63	NO	5.204e5	1805.1		1.06
3	13C-PCB-101	37.52	37.52	4.082e6	2.520e6	3.109e5	1.920e5	1.62	NO	5.029e5	1772.2		1.08
4	13C-PCB-97	38.86	38.86	3.649e6	2.285e6	2.846e5	1.753e5	1.62	NO	4.599e5	1844.4		1.23
5	13C-PCB-111	39.33	39.33	5.622e6	3.330e6	4.404e5	2.620e5	1.68	NO	7.024e5	1961.8		0.856
6	13C-PCB-123	41.52	41.52	4.952e6	3.076e6	3.998e5	2.431e5	1.64	NO	6.429e5	1924.8		0.918
7	13C-PCB-118	41.71	41.71	5.234e6	3.122e6	4.083e5	2.439e5	1.67	NO	6.521e5	1847.9		0.868

4th Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.36	42.39	9.293e6	5.657e6	7.477e5	4.541e5	1.65	NO	1.202e6	2166.7		1.10
2	13C-PCB-105	43.28	43.26	9.273e6	5.721e6	7.632e5	4.693e5	1.63	NO	1.233e6	2185.7		1.08
3	13C-PCB-127	43.61	43.62	9.765e6	6.049e6	7.979e5	4.905e5	1.63	NO	1.288e6	2211.2		1.04
4	13C-PCB-126	45.57	45.59	8.411e6	5.159e6	7.135e5	4.358e5	1.64	NO	1.149e6	2044.0		1.08

4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.42	43.45	6.122e6	4.864e6	4.909e5	3.882e5	1.26	NO	8.791e5	1796.1		1.08
2	13C-PCB-141	44.21	44.20	5.058e6	3.937e6	4.040e5	3.151e5	1.28	NO	7.191e5	1777.8		1.30
3	13C-PCB-138	45.06	45.06	5.253e6	4.001e6	4.259e5	3.280e5	1.30	NO	7.539e5	1774.4		1.24
4	13C-PCB-159	46.40	46.40	6.579e6	5.006e6	5.223e5	4.021e5	1.30	NO	9.244e5	1790.8		1.02
5	13C-PCB-128	46.67	46.67	5.051e6	3.947e6	3.953e5	3.082e5	1.28	NO	7.035e5	1961.8		1.47
6	13C-PCB-167	47.10	47.10	6.474e6	5.003e6	5.181e5	3.973e5	1.30	NO	9.154e5	1772.3		1.02
7	13C-PCB-156	48.43	48.43	6.039e6	4.805e6	4.897e5	3.877e5	1.26	NO	8.774e5	1751.5		1.05
8	13C-PCB-157	48.72	48.71	5.858e6	4.524e6	5.002e5	3.817e5	1.31	NO	8.819e5	1760.3		1.05
9	13C-PCB-169	50.99	50.99	5.509e6	4.253e6	4.555e5	3.510e5	1.30	NO	8.065e5	1689.4		1.10

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Dataset: U:\VG11.PRO\Results\201026K4\201026K4-10.qld

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5th Function Octa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-194	54.72	54.74	5.111e6	5.510e6	2.943e5	3.196e5	0.92	NO	6.139e5	1979.0		1.51
2	13C-PCB-205	55.01	55.00	7.116e6	7.488e6	3.842e5	4.082e5	0.94	NO	7.924e5	1961.8		1.16

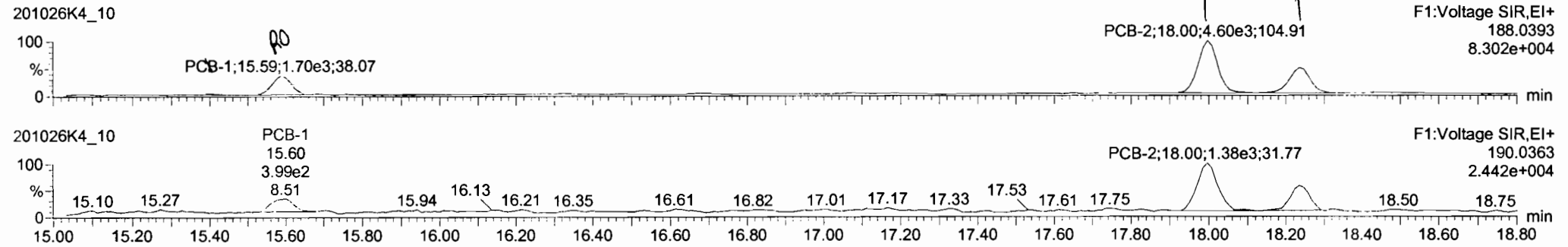
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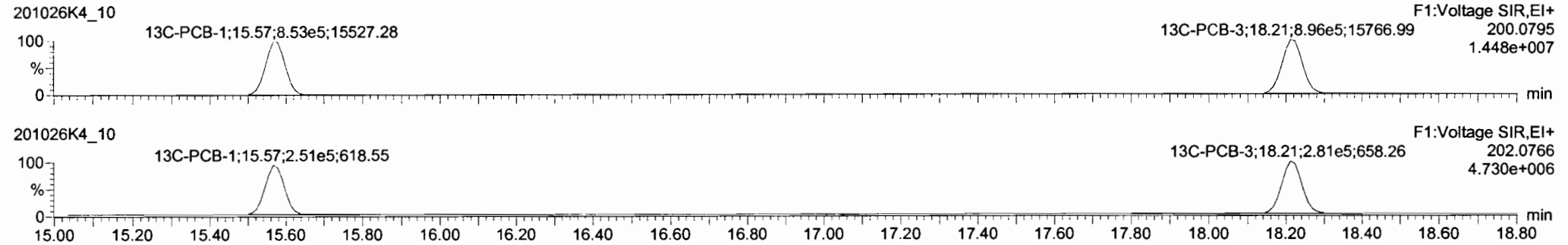
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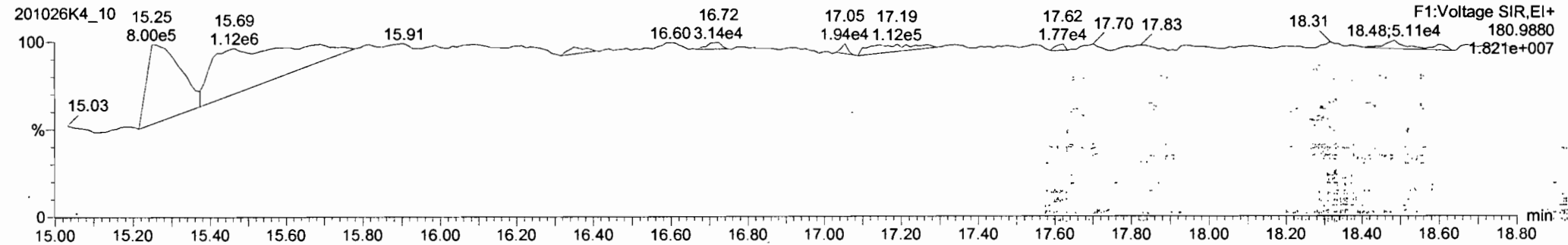
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**13C-PCB-1**



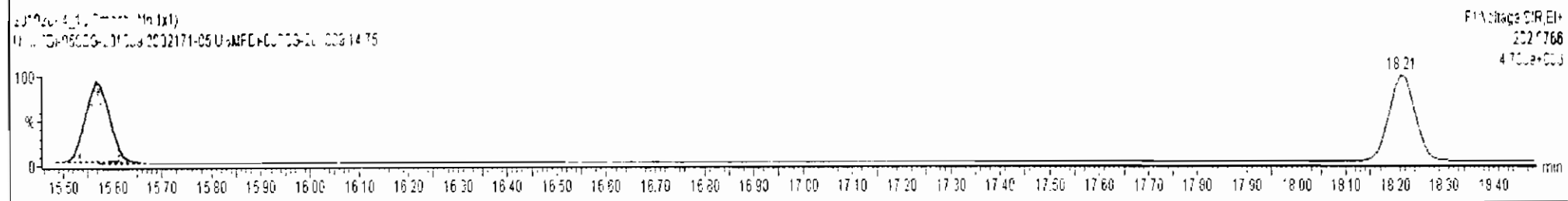
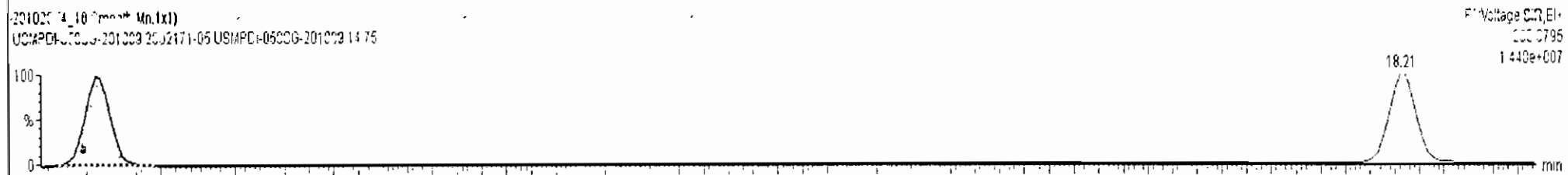
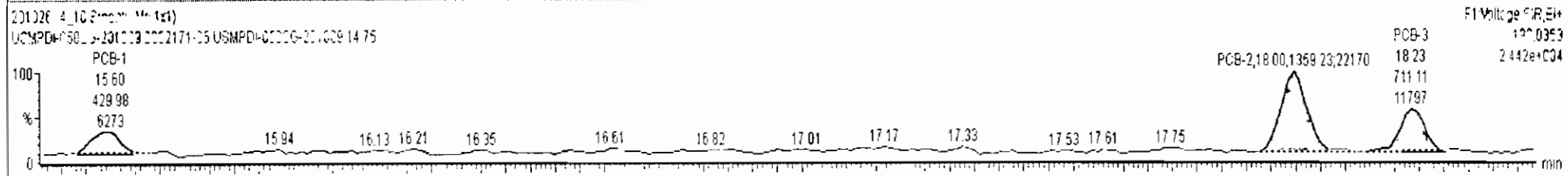
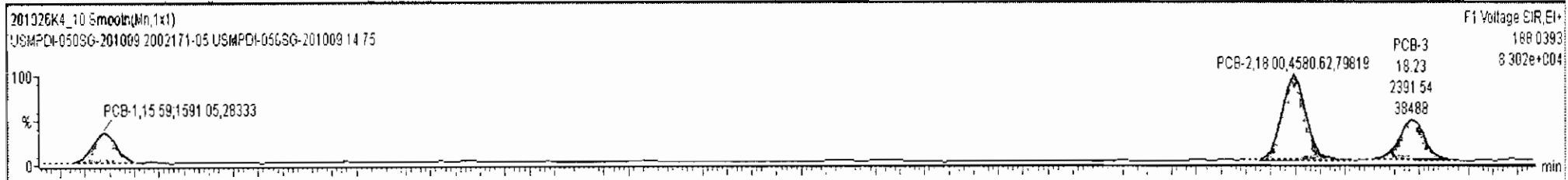
**PFK1**



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#	Name	Resp	RA	n/y	RF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1665	5.097	0.00		0.000		NO	12.88		0.781	15.58
225	Total Di-PCBs				1.0537	5.097	0.00		0.000		NO	142.7		4.80	153.8
226	2nd Function Tri-PCBs				1.0807	5.097	0.00		0.000		NO	155.1		3.02	155.1
227	3rd Function Tri-PCBs				0.9826	5.097	0.00		0.000		NO	513.3		7.40	519.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	PCB-1	15.58	15.59	1.591e3	4.300e2	3.130	3.70	YES	2.7030	0.00000
2	PCB-2	18.00	18.00	4.581e3	1.359e3	3.130	3.37	NO	8.3712	8.3712
3	PCB-3	18.22	18.23	2.392e3	7.111e2	3.130	3.36	NO	4.5039	4.5039





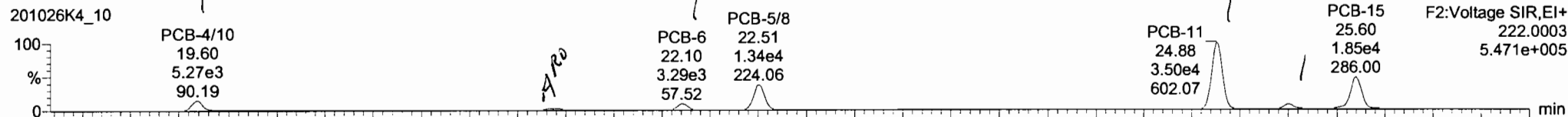
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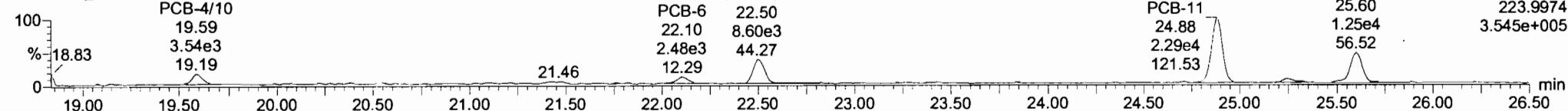
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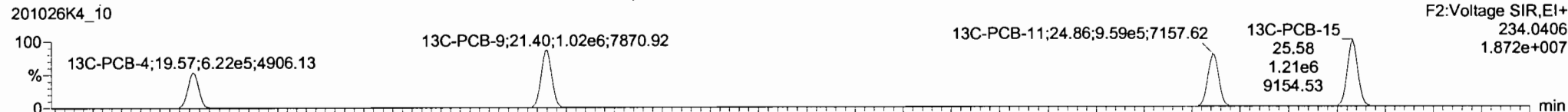
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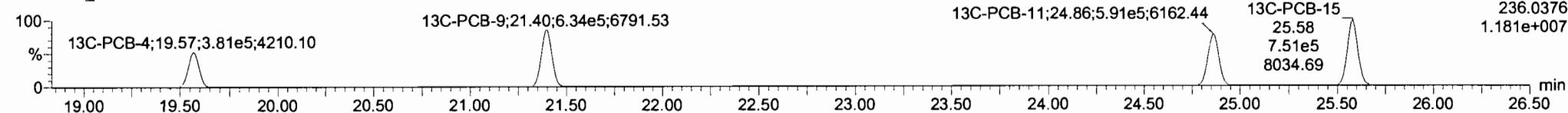
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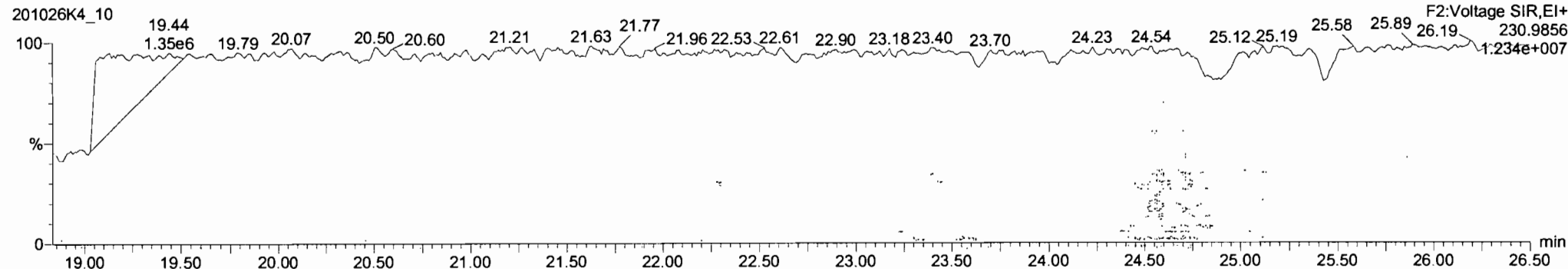
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**201026K4\_10**



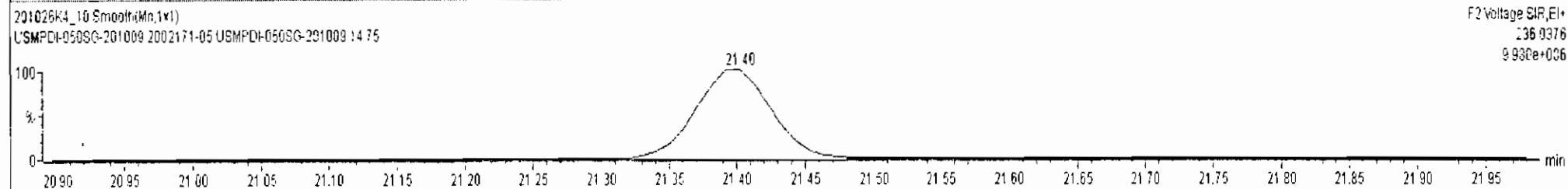
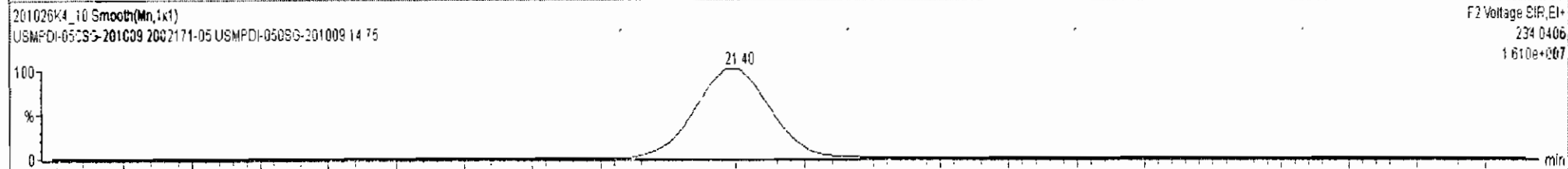
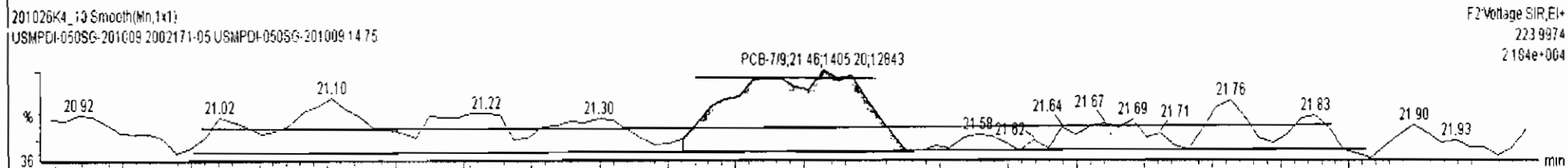
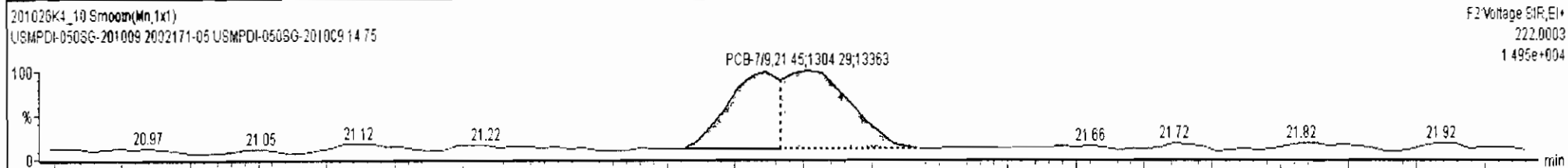
**PFK2a**



201026K4\_10 - 2002171-05 USMPDI-050SG-201009 14 75 - USMPDI-050SG-201009

#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.097	0.00		0.000		NO	12.88		0.781	15.58
225	225 Total Di-PCBs				1.0537	5.097	0.00		0.000		NO	142.7		4.80	156.5
226	226 2nd Function Tri-PCBs				1.0807	5.097	0.00		0.000		NO	155.1		3.02	155.1
227	227 13rd Function Tri-PCBs				0.9828	5.097	0.00		0.000		NO	513.3		7.40	519.1

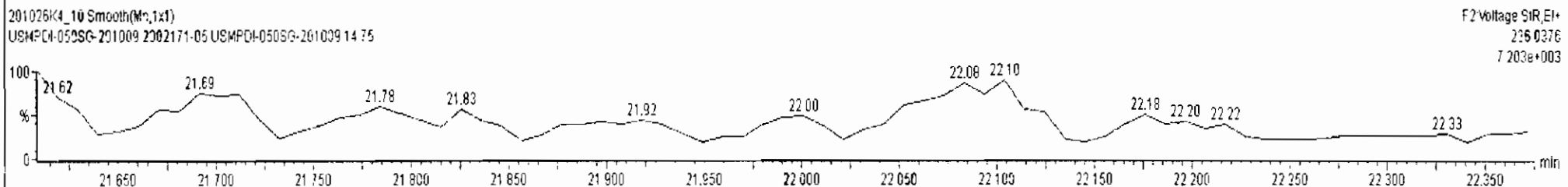
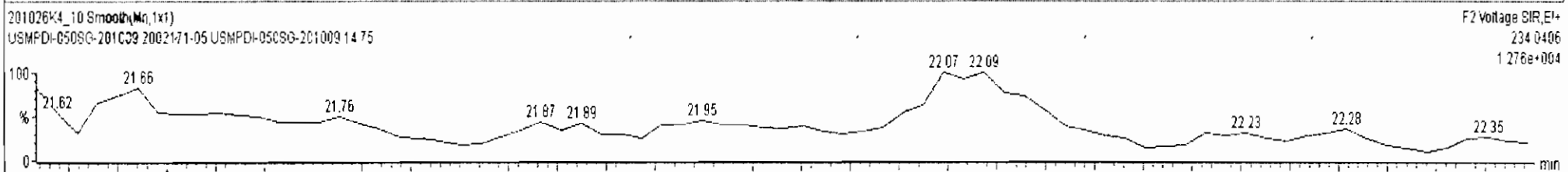
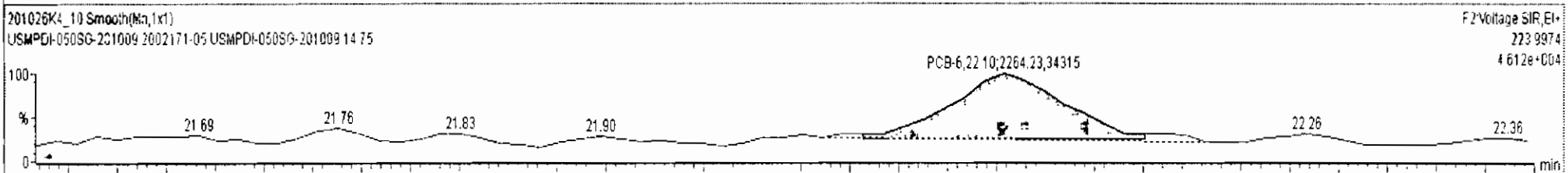
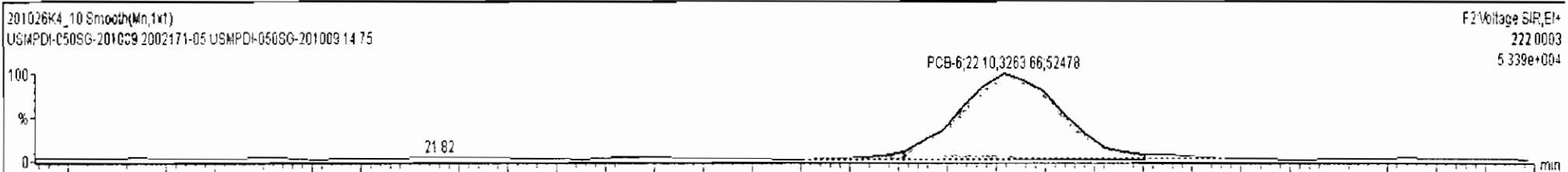
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	4 PCB-4/10	19.65	19.60	5.267e3	3.537e3	1.560	1.49	NO	13.795	13.795
2	5 PCB-7/9	21.46	21.45	1.304e3	1.405e3	1.560	0.93	YES	2.6384	0.00000
3	6 PCB-6	22.11	22.10	3.289e3	2.481e3	1.560	1.33	YES	6.2415	0.00000



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#	Name	Resp	RA	nly	RF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1685	5.097	0.00		0.000		NO	12.88		0.781	15.58
225	Total Di-PCBs				1.0537	5.097	0.00		0.000		NO	149.1		4.80	156.6
226	2nd Function Tri-PCBs				1.0807	5.097	0.00		0.000		NO	155.1		3.02	155.1
227	3rd Function Tri-PCBs				0.9626	5.097	0.00		0.000		NO	513.3		7.40	519.1

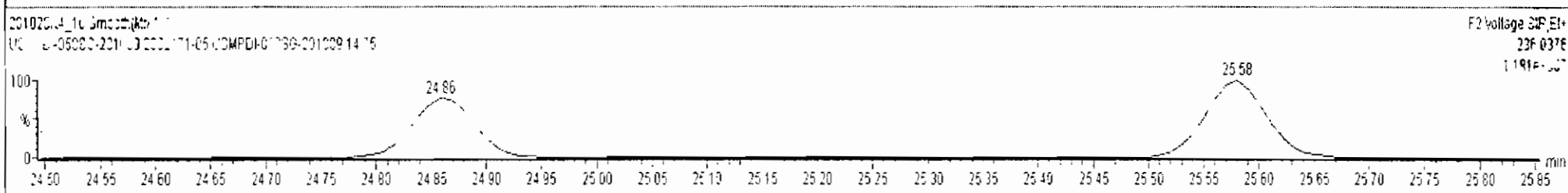
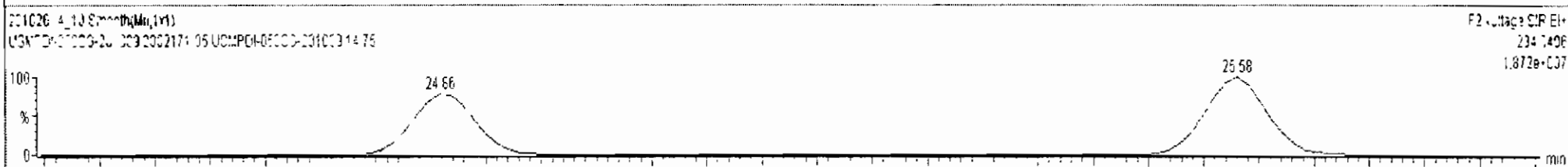
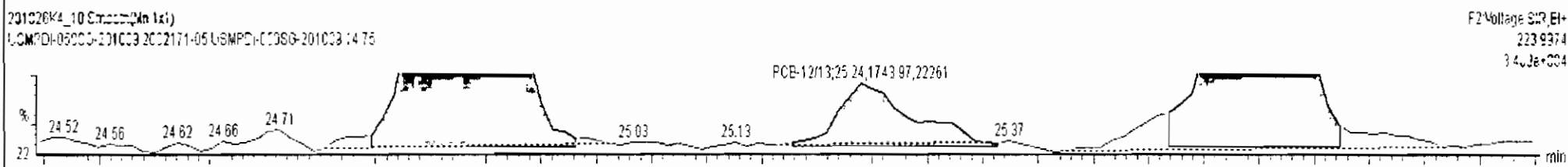
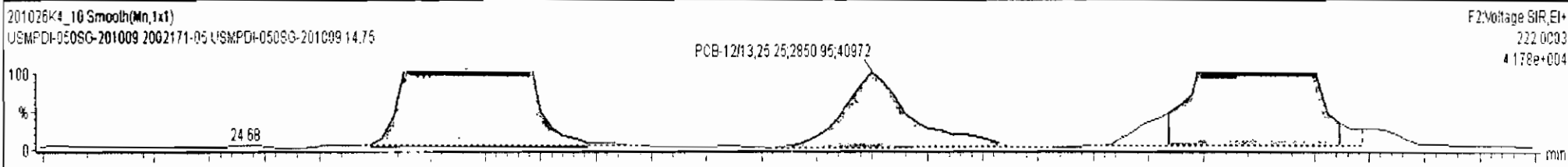
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1	4 PCB-4/10	19.65	19.60	5.267e3	3.537e3	1.560	1.49	NO	13.795	13.795
2	5 PCB-7/9	21.46	21.45	1.304e3	1.405e3	1.560	0.93	YES	2.6384	0.00000
3	6 PCB-6	22.11	22.10	3.264e3	2.264e3	1.560	1.44	NO	6.3917	6.3917



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.097	0.00		0.000		NO	12.88		0.781	15.58
225	225 Total Di-PCBs				1.0537	5.097	0.00		0.000		NO	152.6		4.80	155.2
226	226 2nd Function Tri-PCBs				1.0807	5.097	0.00		0.000		NO	155.1		3.02	155.1
227	227 3rd Function Tri-PCBs				0.9028	5.097	0.00		0.000		NO	513.3		7.40	519.1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
3	6 PCB-6	22.11	22.10	3.264e3	2.264e3	1.560	1.44	NO	6.3917	6.3917
4	7 PCB-5/8	22.52	22.51	1.336e4	8.595e3	1.560	1.55	NO	26.176	26.176
5	9 PCB-11	24.88	24.88	3.499e4	2.275e4	1.560	1.54	NO	64.867	64.867
6	10 PCB-12/13	25.31	25.25	2.851e3	1.744e3	1.560	1.63	NO	5.6637	5.6637
7	11 PCB-15	25.60	25.60	1.775e4	1.145e4	1.560	1.55	NO	35.704	35.704

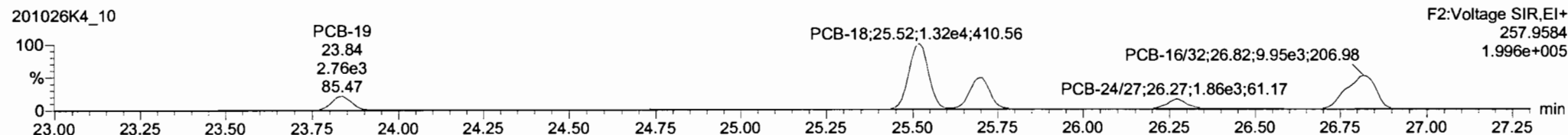
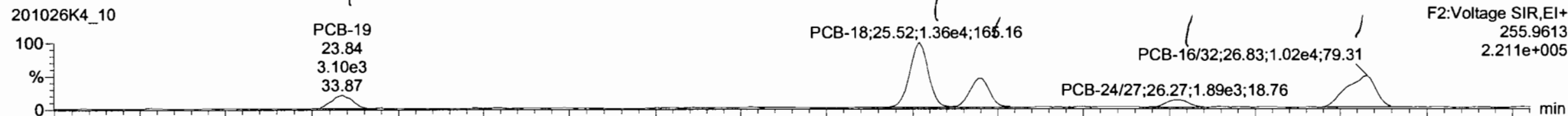


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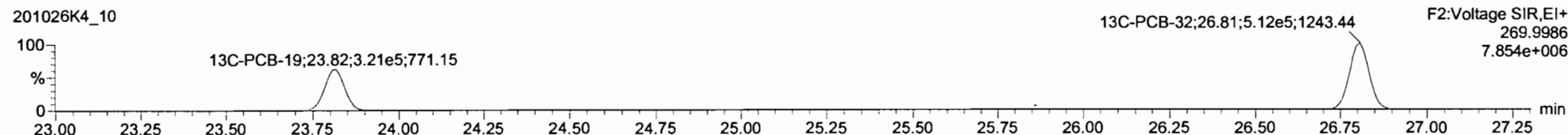
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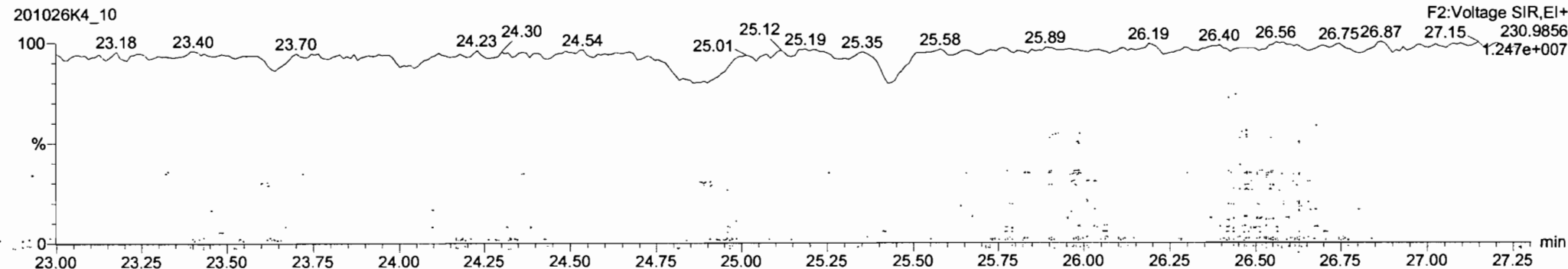
**PCB-19**



**13C-PCB-19**



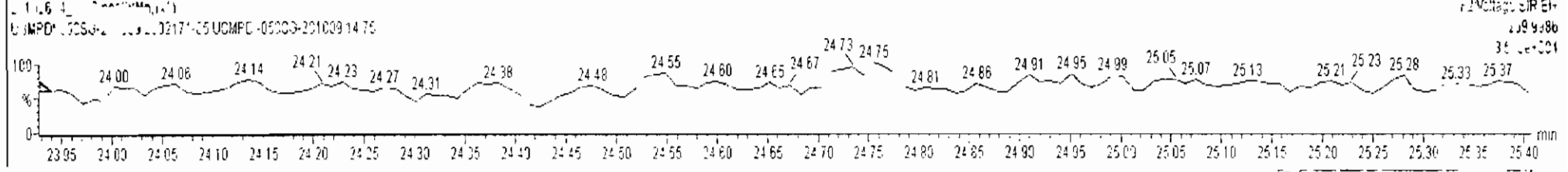
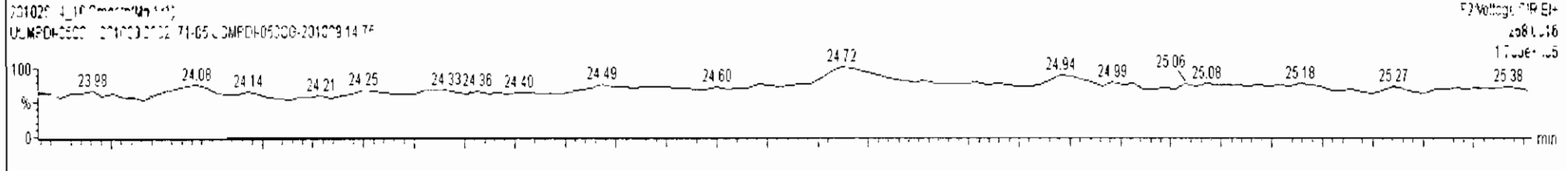
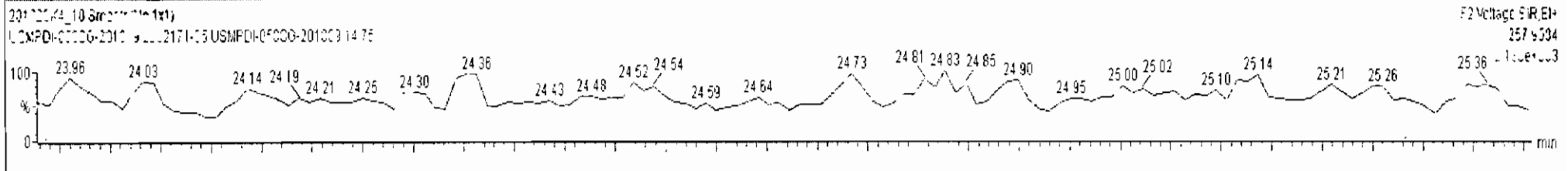
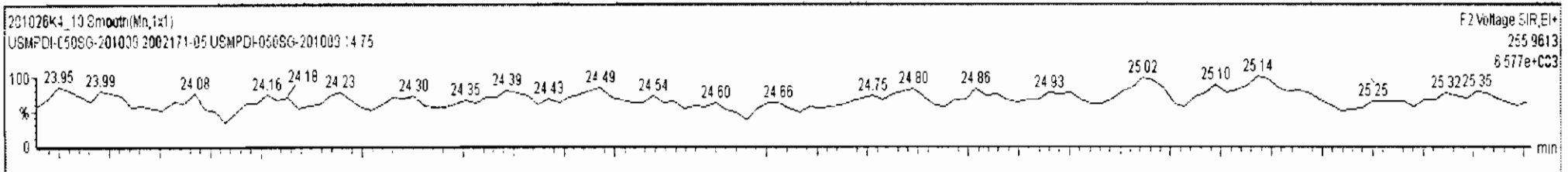
**PFK2b**



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.097	0.00		0.000		NO	12.88		0.781	15.58
225	225 Total Di-PCBs				1.0537	5.097	0.00		0.000		NO	152.6		4.80	155.2
226	226 2nd Function Tri-PCBs				1.0807	5.097	0.00		0.000		NO	155.1		3.02	155.1
227	227 3rd Function Tri-PCBs				0.9828	5.097	0.00		0.000		NO	513.3		7.40	519.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	12 PCB-19	23.85	23.84	3.104e3	2.761e3	1.040	1.12	NO	15.817	15.817
2	14 PCB-18	25.52	25.52	1.363e4	1.319e4	1.040	1.03	NO	60.765	60.765
3	15 PCB-17	25.70	25.69	6.538e3	6.459e3	1.040	1.01	NO	31.747	31.747
4	16 PCB-24/27	26.30	26.27	1.891e3	1.862e3	1.040	1.02	NO	6.4250	6.4250
5	17 PCB-16/32	26.83	26.83	1.021e4	9.953e3	1.040	1.03	NO	40.360	40.360

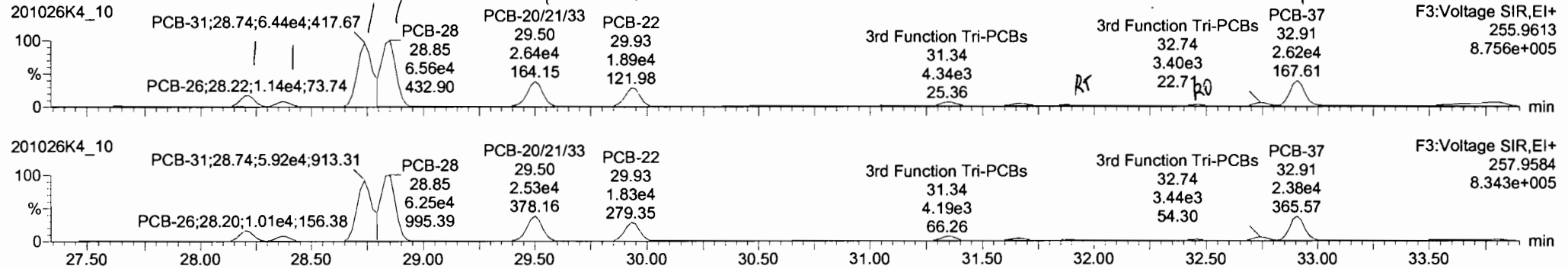


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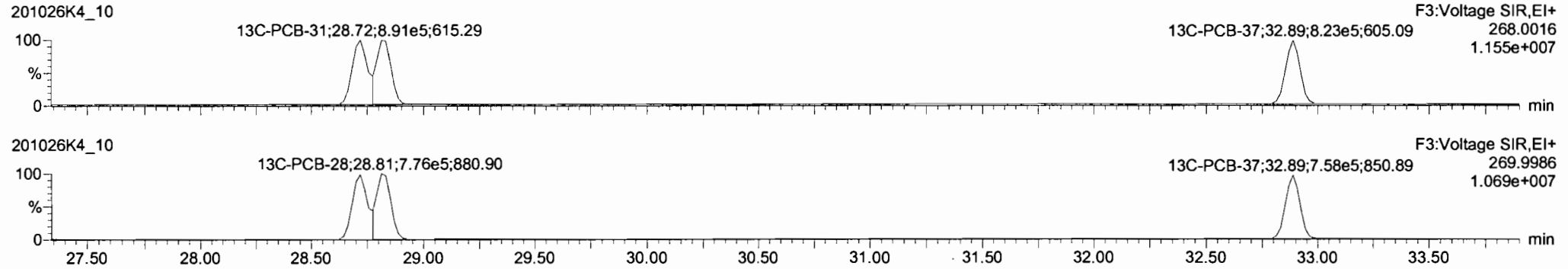
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Printed: Wednesday, October 28, 2020 13:33:32 Pacific Daylight Time

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

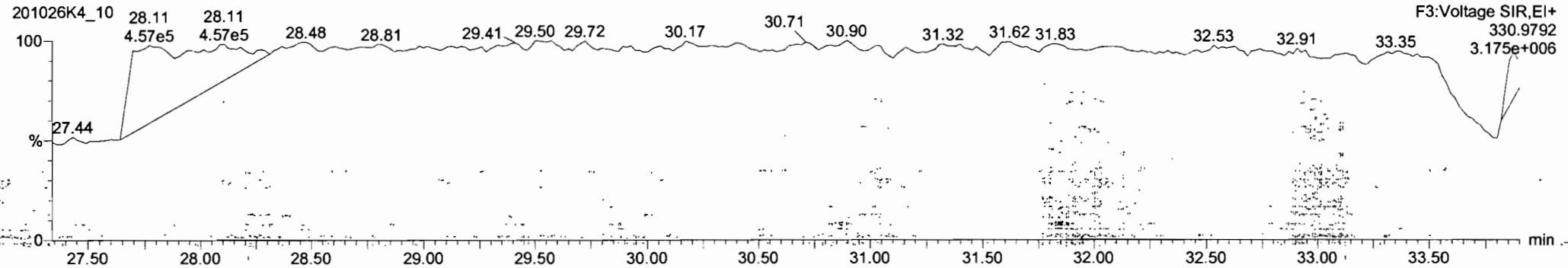
**PCB-34**



**13C-PCB-28**



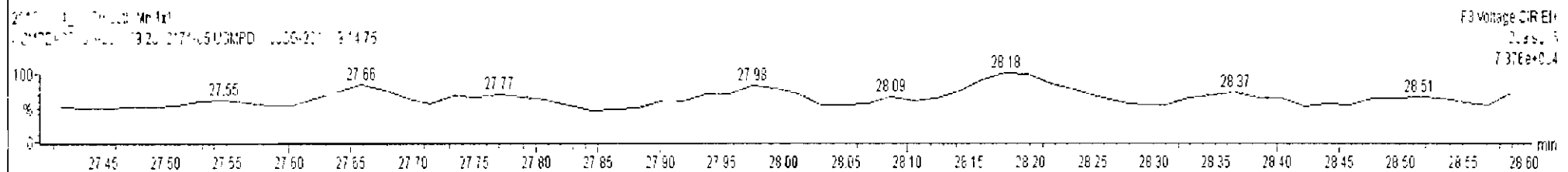
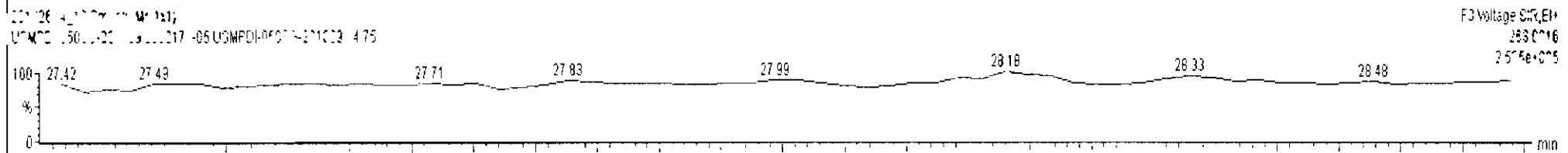
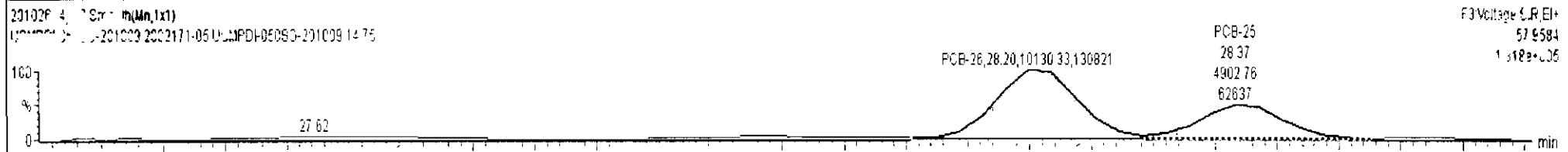
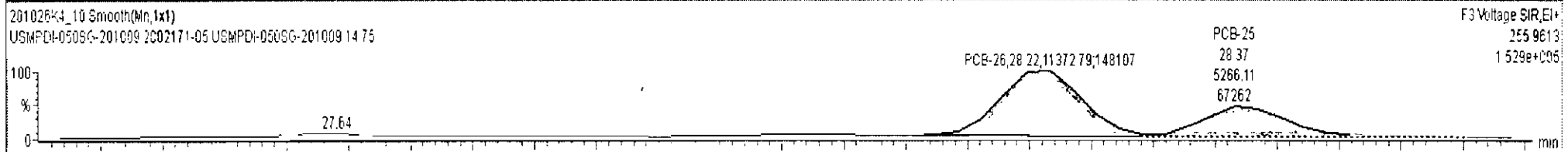
**PFK3d**



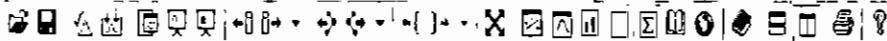
201026K4\_10 - 2002171-05 USMPDI-050SG-201009 14.75 - USMPDI-050SG-201009

#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.097	0.00		0.000		NO	12.88		0.781	15.58
225	225 Total Di-PCBs				1.0537	5.097	0.00		0.000		NO	152.6		4.80	155.2
226	226 2nd Function Tri-PCBs				1.0807	5.097	0.00		0.000		NO	155.1		3.02	155.1
227	227 3rd Function Tri-PCBs				0.9828	5.097	0.00		0.000		NO	513.0		7.40	518.8

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	21 PCB-26	28.20	28.22	1.137e4	1.013e4	1.040	1.12	NO	27.729	27.729
2	22 PCB-25	28.35	28.37	5.266e3	4.903e3	1.040	1.07	NO	13.031	13.031
3	23 PCB-31	28.73	28.74	6.442e4	5.922e4	1.040	1.09	NO	145.23	145.23
4	24 PCB-28	28.83	28.85	6.558e4	6.252e4	1.040	1.05	NO	152.13	152.13
5	25 PCB-20/21/33	29.47	29.50	2.638e4	2.531e4	1.040	1.04	NO	66.838	66.838
6	26 PCB-22	29.51	29.93	1.891e4	1.827e4	1.040	1.03	NO	46.518	46.518
7	29 PCB-38	31.92	31.88	9.948e2	1.156e3	1.040	0.86	YES	2.3022	0.00000



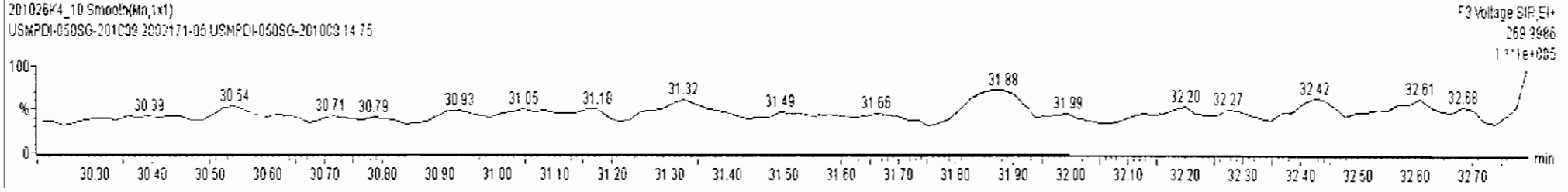
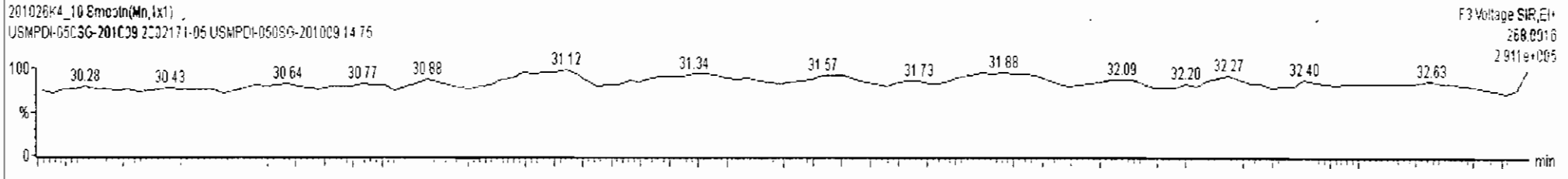
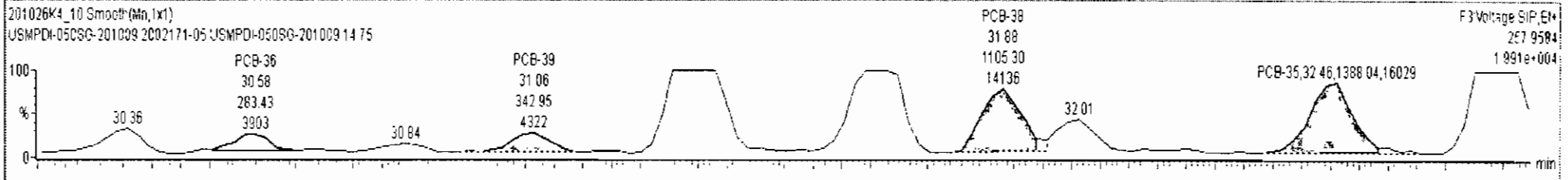
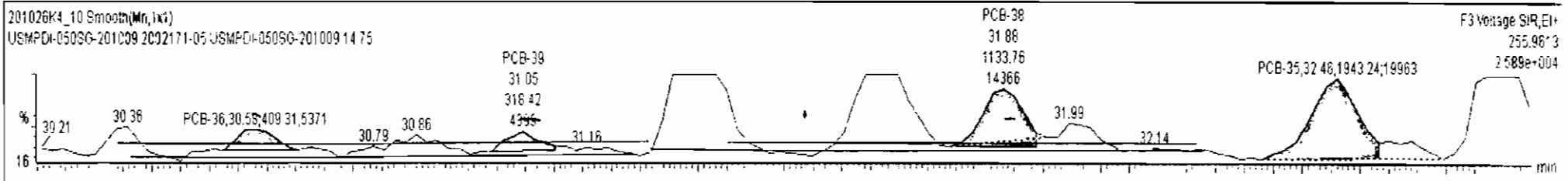




201026K4\_10 - 2002171-05 USMPDI-050SG-201009 14.75 - USMPDI-050SG-201009

#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	Dt	EMPC
224	Total Mono-PCBs				1.1655	5.097	0.00		0.000		NO	12.88		0.781	15.58
225	Total Di-PCBs				1.0537	5.097	0.00		0.000		NO	152.6		4.80	155.2
226	2nd Function Tri-PCBs				1.0807	5.097	0.00		0.000		NO	155.1		3.02	155.1
227	3rd Function Tri-PCBs				0.9828	5.097	0.00		0.000		NO	516.6		7.40	520.6

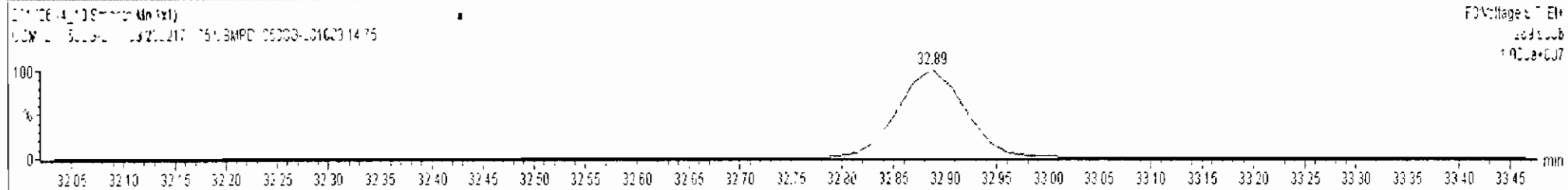
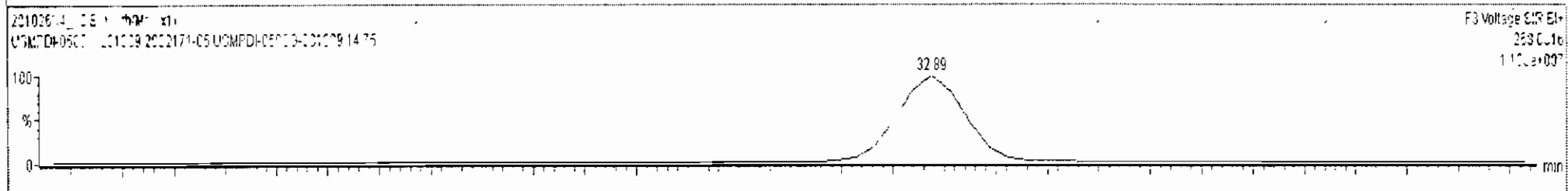
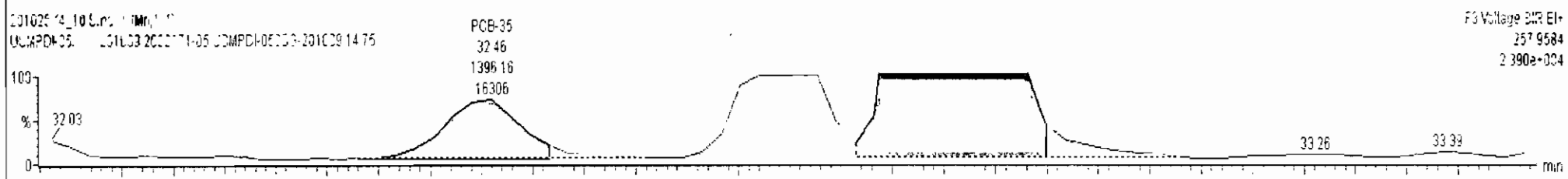
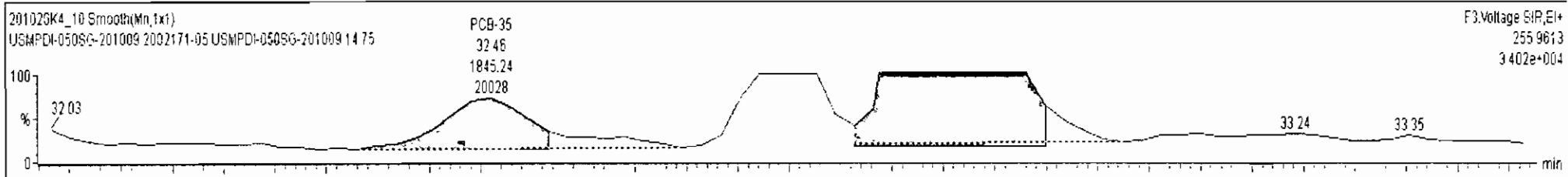
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	21 PCB-26	28.20	28.22	1.137e4	1.013e4	1.040	1.12	NO	27.729	27.729
2	22 PCB-25	28.35	28.37	5.266e3	4.903e3	1.040	1.07	NO	13.031	13.031
3	23 PCB-31	28.73	28.74	6.442e4	5.822e4	1.040	1.09	NO	145.23	145.23
4	24 PCB-28	28.83	28.85	6.558e4	6.257e4	1.040	1.05	NO	152.13	152.13



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#	Name	Resp	RA	n/y	RRF	wVol	Pred.RT	RT	Pred.R...	RRT	PRT Fal	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.097	0.00		0.000		NO	12.88		0.781	15.58
225	225 Total Di-PCBs				1.0537	5.097	0.00		0.000		NO	152.6		4.80	155.2
226	226 2nd Function Tri-PCBs				1.0807	5.097	0.00		0.000		NO	155.1		3.02	155.1
227	227 3rd Function Tri-PCBs				0.9828	5.097	0.00		0.000		NO	515.9		7.40	520.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
9	29 PCB-35	31.92	31.88	1.134e3	1.105e3	1.040	1.03	NO	2.6415	2.6415
10	30 PCB-35	32.47	32.46	1.845e3	1.396e3	1.040	1.32	YES	3.3864	0.00000
11	31 PCB-37	32.91	32.91	2.612e4	2.347e4	1.040	1.11	NO	60.981	60.981



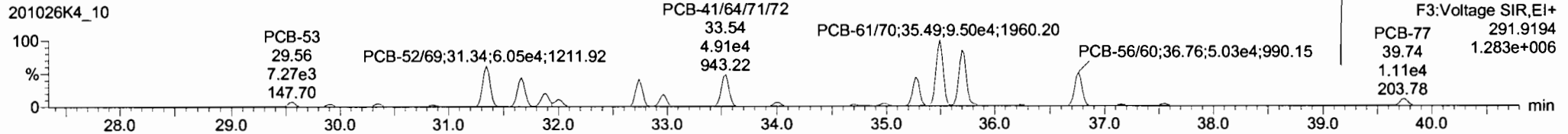
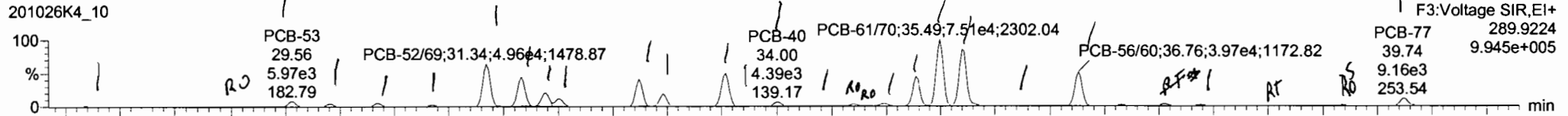
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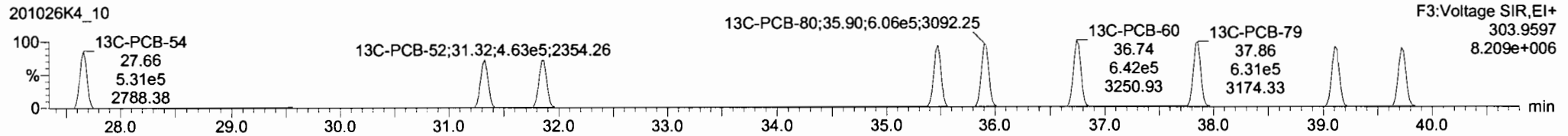
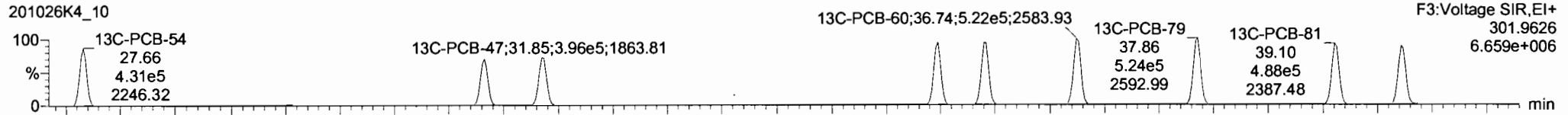
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Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

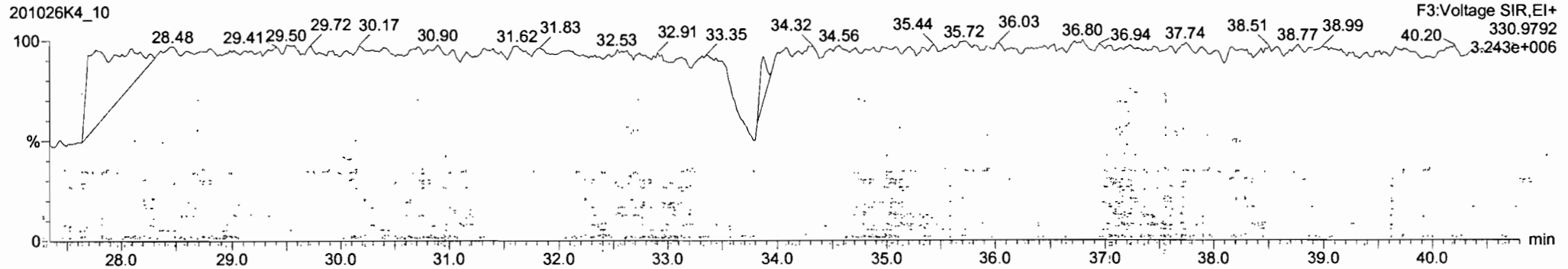
**PCB-54**



**13C-PCB-54**



**PFK3a**



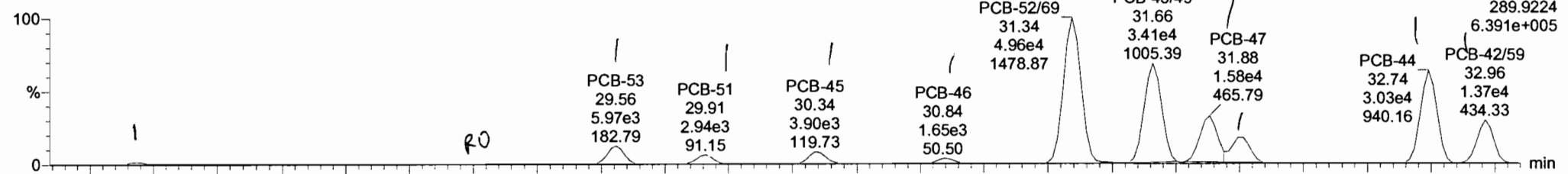
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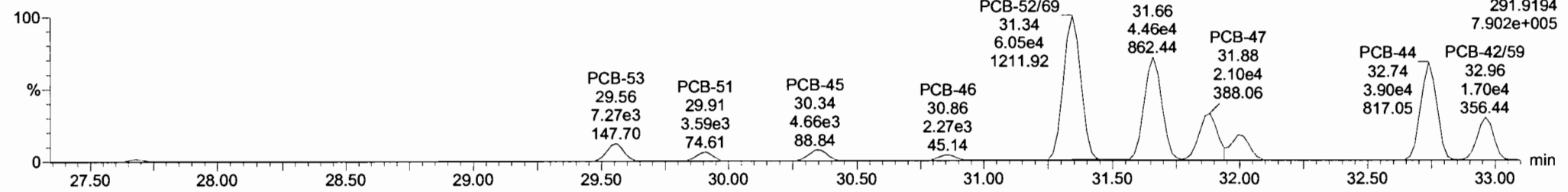
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PCB-50

201026K4\_10

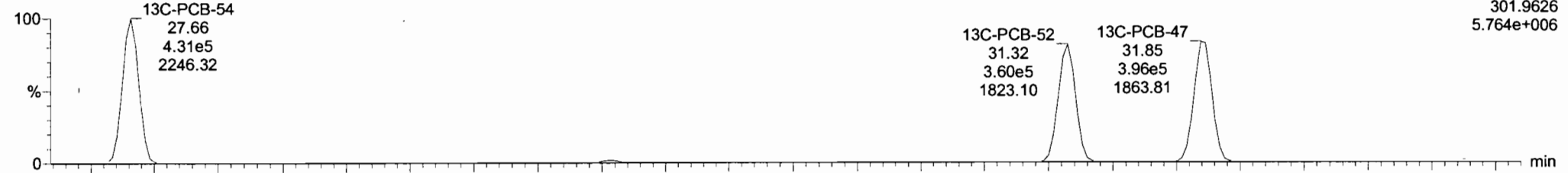


201026K4\_10

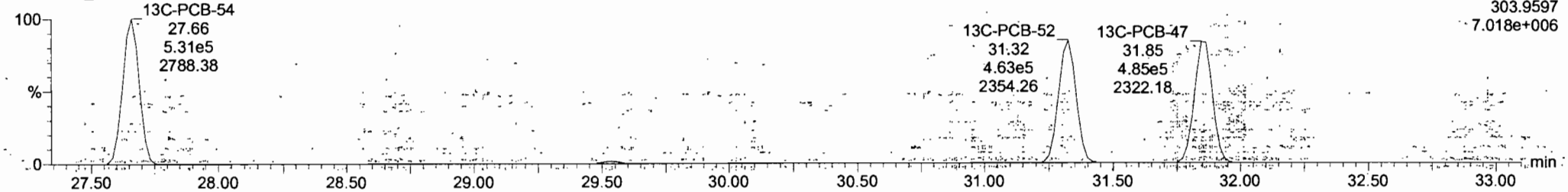


13C-PCB-52

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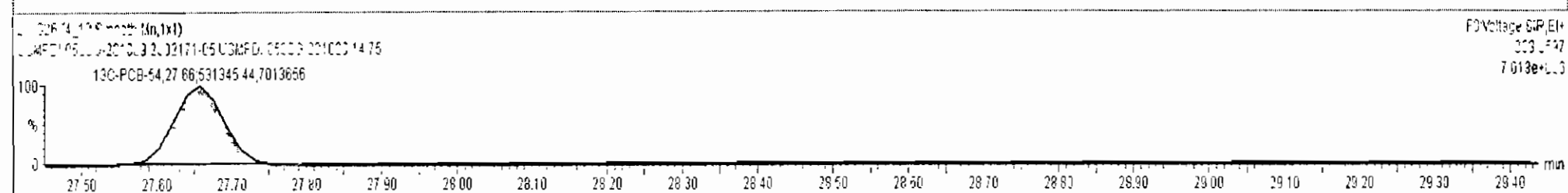
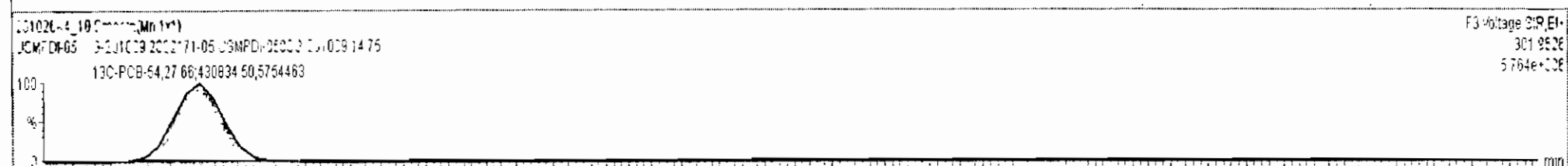
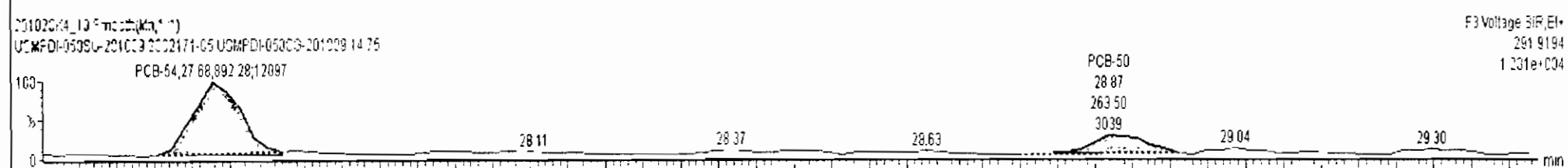
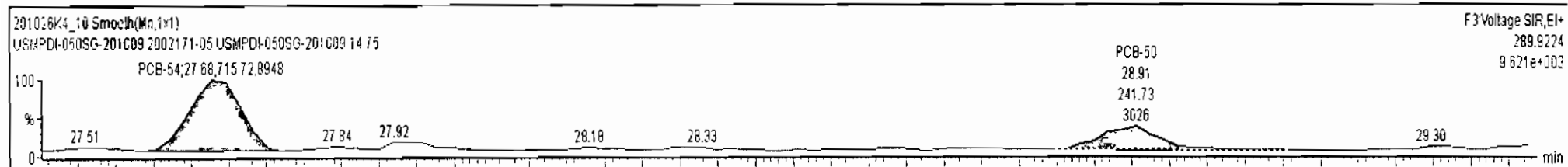
201026K4\_10



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#	Name	Resp	RA	n/y	RRF	wMol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1955		10.8	1970
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1796		9.74	1803
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	115.1		2.21	116.9
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

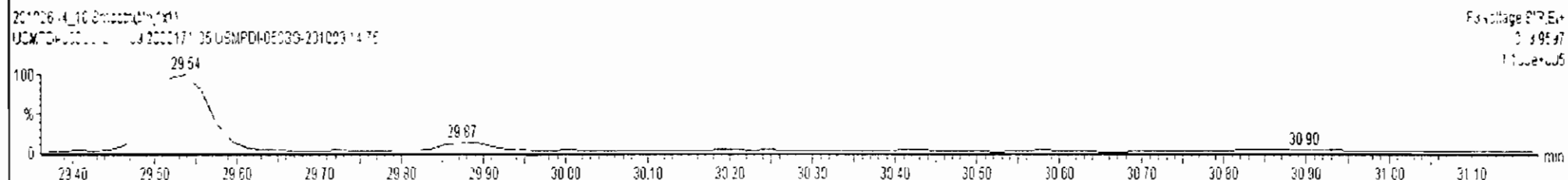
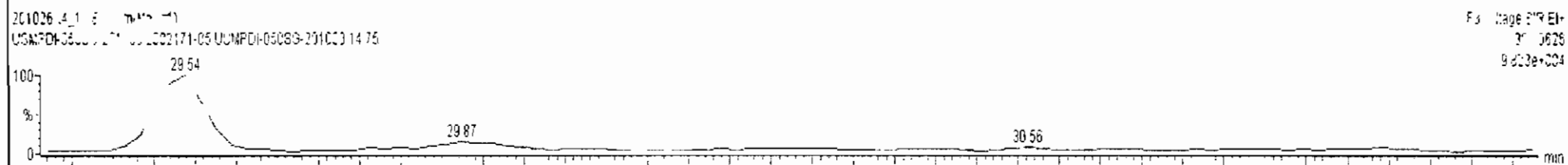
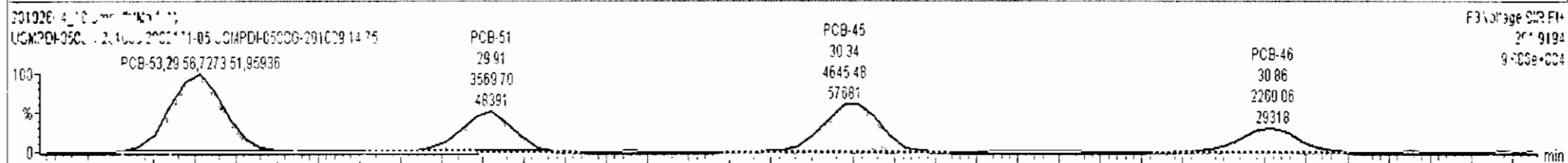
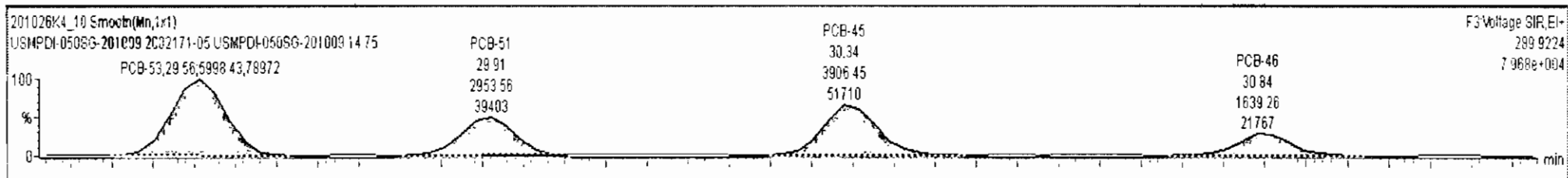
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.68	27.68	7.157e2	8.923e2	0.770	0.80	NO	3.0361	3.0361
2	33 PCB-50	28.89	28.91	2.417e2	2.635e2	0.770	0.92	YES	1.0811	0.00000
3	34 PCB-53	29.56	29.56	5.998e3	7.274e3	0.770	0.82	NO	31.767	31.767
4	35 PCB-51	29.92	29.91	2.954e3	3.570e3	0.770	0.83	NO	14.610	14.610
5	36 PCB-45	30.36	30.34	3.906e3	4.645e3	0.770	0.84	NO	23.768	23.768



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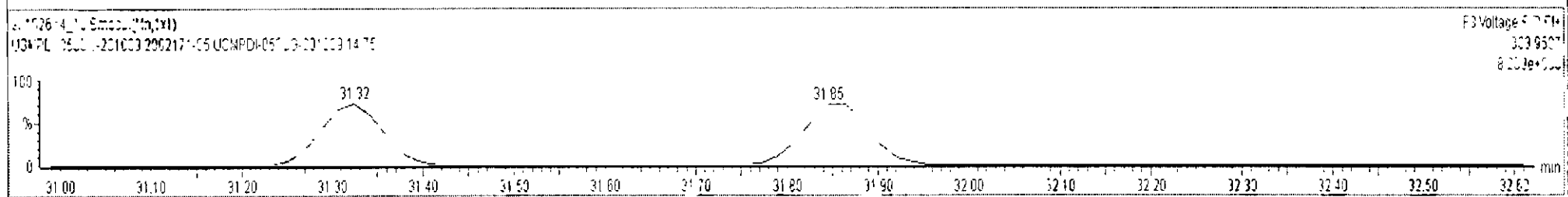
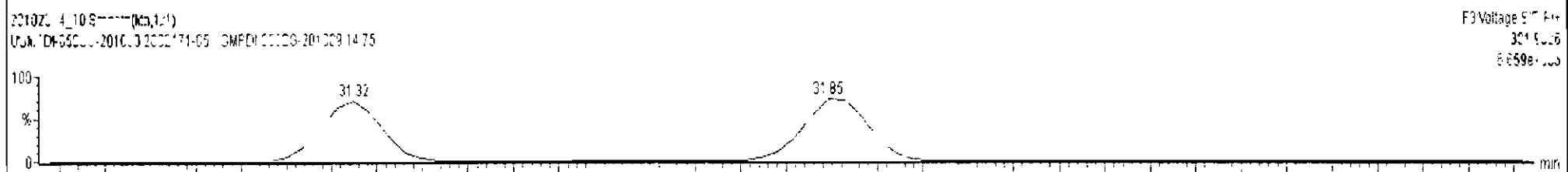
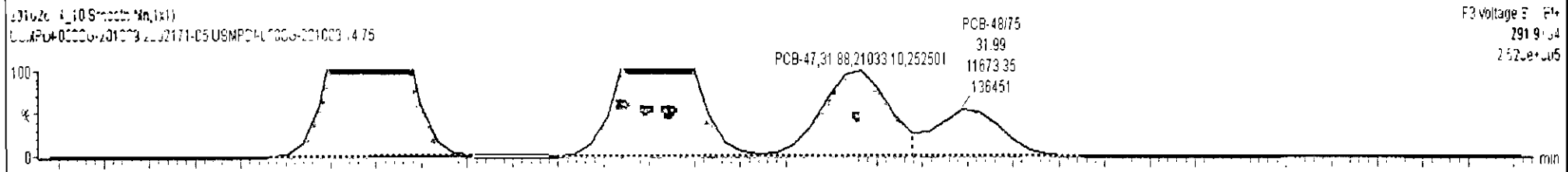
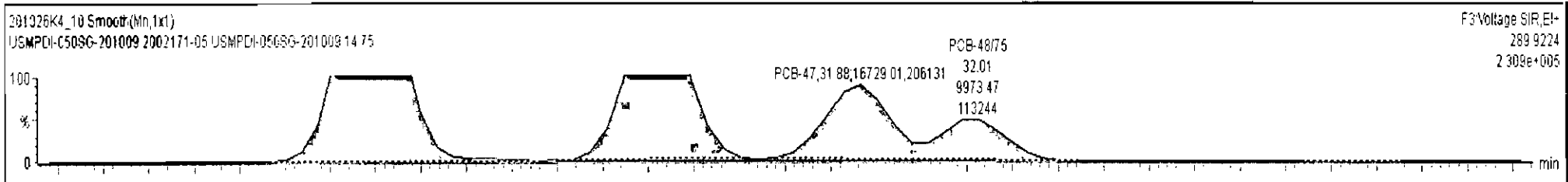
#	Name	Resp	RA	n/y	RFf	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.097	0.00		0.000	NO		1955		10.8	1970
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000	NO		1796		9.74	1803
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000	NO		115.1		2.21	116.9
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000	NO		482.4		3.03	507.1

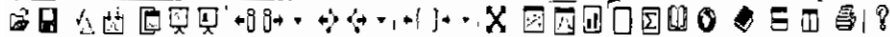
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.68	27.68	7.157e2	8.923e2	0.770	0.80	NO	3.0361	3.0361
2	33 PCB-50	28.89	28.91	2.417e2	2.635e2	0.770	0.92	YES	1.0811	0.0000
3	34 PCB-53	29.56	29.56	5.998e3	7.274e3	0.770	0.82	NO	31.767	31.767
4	35 PCB-51	29.92	29.91	2.954e3	3.570e3	0.770	0.83	NO	14.610	14.610
5	36 PCB-45	30.36	30.34	3.906e3	4.645e3	0.770	0.84	NO	23.768	23.768



#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1962		10.8	1977
229	3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1796		9.74	1803
230	4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	115.1		2.21	116.9
231	3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	492.4		3.03	507.1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
7	38 PCB-52/69	31.36	31.34	4.943e4	6.094e4	0.770	0.81	NO	225.71	225.71
8	40 PCB-43/49	31.65	31.66	3.503e4	4.477e4	0.770	0.78	NO	187.36	187.36
9	41 PCB-47	31.87	31.88	1.673e4	2.103e4	0.770	0.80	NO	91.159	91.159
10	42 PCB-48/75	31.98	32.01	9.973e3	1.167e4	0.770	0.85	NO	43.006	43.006

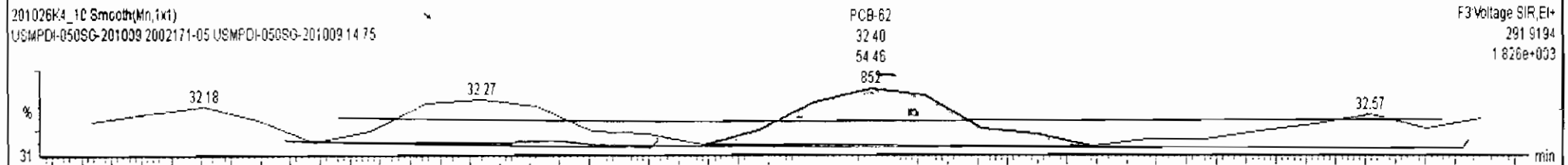
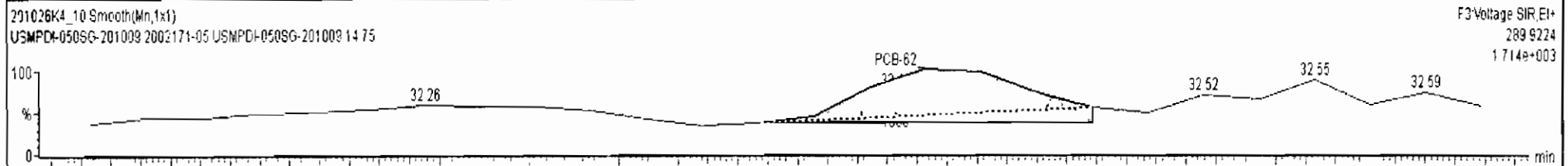




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#	Name	Resp	RA	n/y	RRF	wtVnd	PredRT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1962		10.8	1977
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1796		9.74	1803
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	115.1		2.21	116.9
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

#	Name	PredRT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
8	40 PCB-43/49	31.65	31.66	3.503e4	4.477e4	0.770	0.78	NO	187.36	187.36
9	41 PCB-47	31.87	31.88	1.673e4	2.103e4	0.770	0.80	NO	91.159	91.159
10	42 PCB-48/75	31.98	32.01	9.973e3	1.167e4	0.770	0.85	NO	43.006	43.006
11	44 PCB-62	32.35	32.42	7.099e1	5.446e1	0.770	1.30	YES	0.19026	0.00000



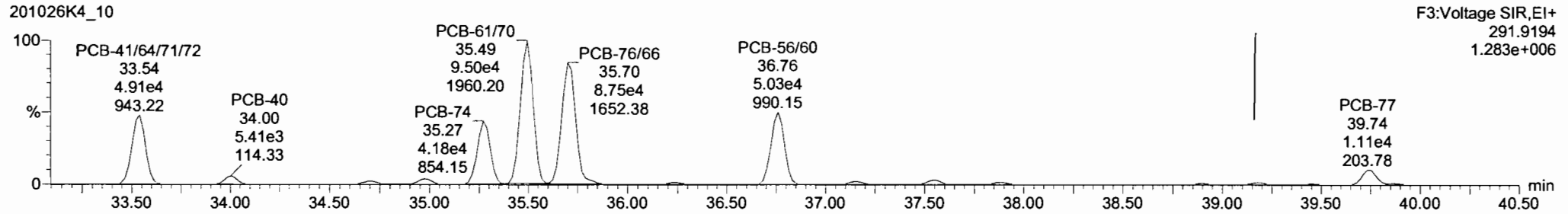
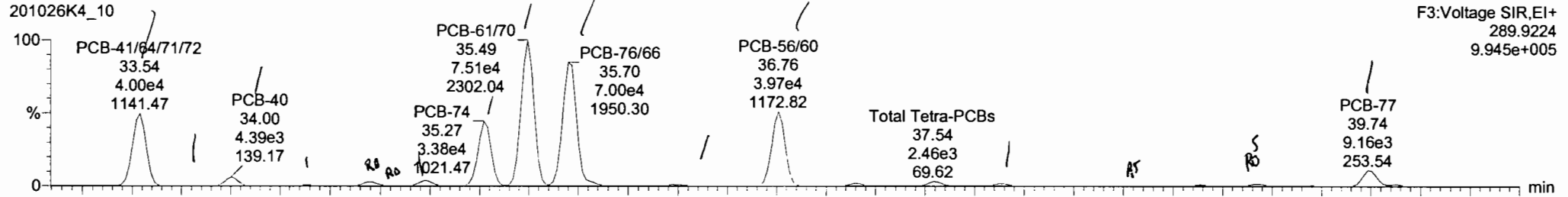


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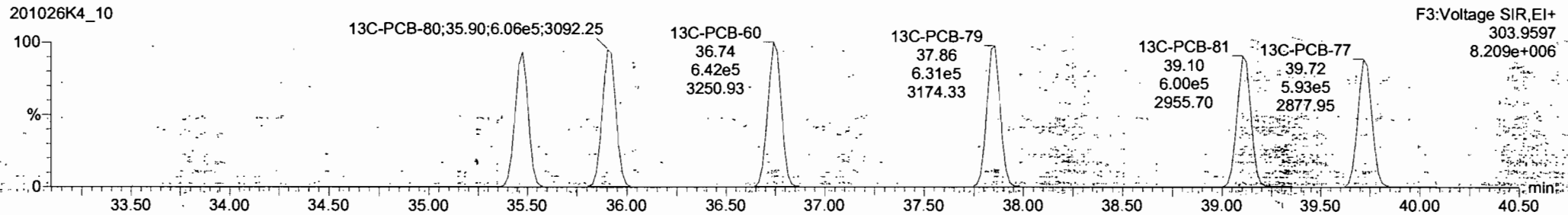
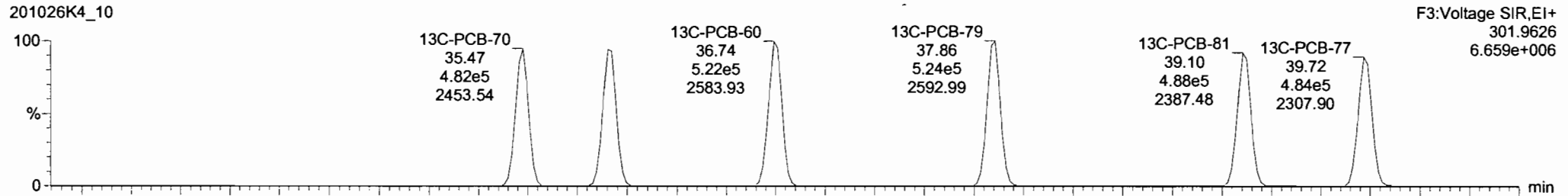
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Printed: Wednesday, October 28, 2020 13:33:32 Pacific Daylight Time

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

**PCB-68**

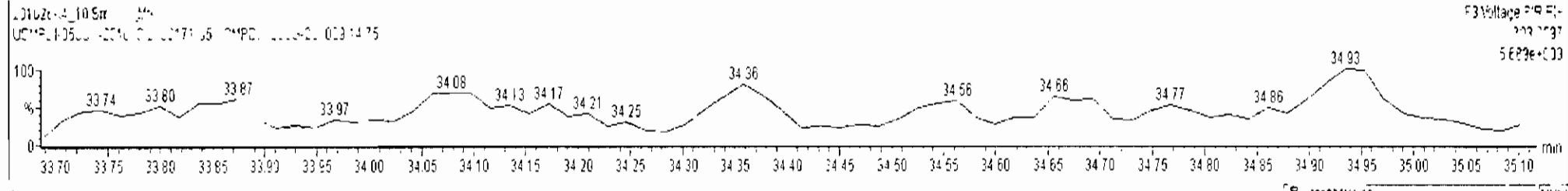
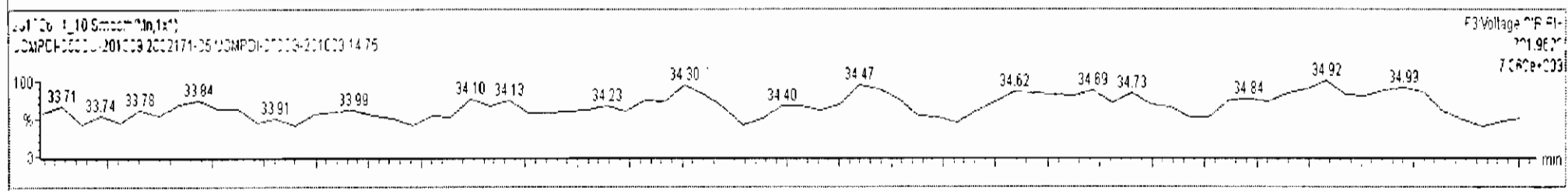
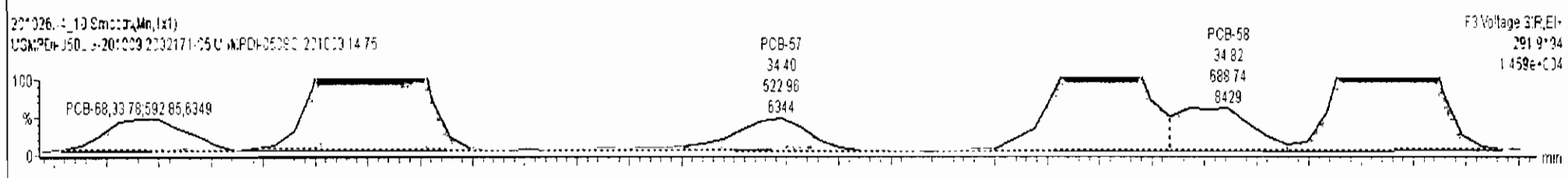
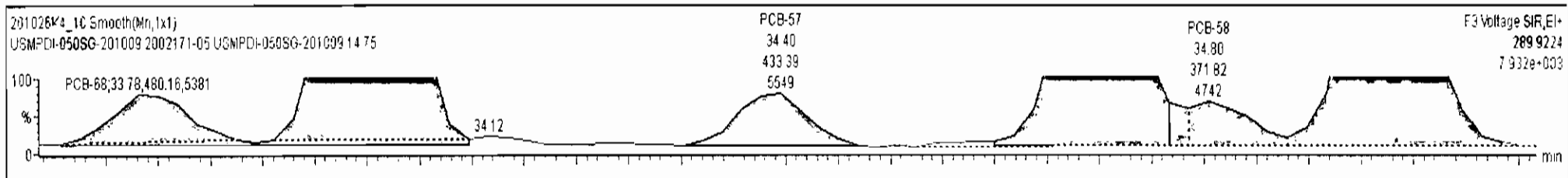


**13C-PCB-60**



#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.087	0.00		0.000		NO	1969		10.8	1979
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1796		9.74	1803
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	115.1		2.21	118.9
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

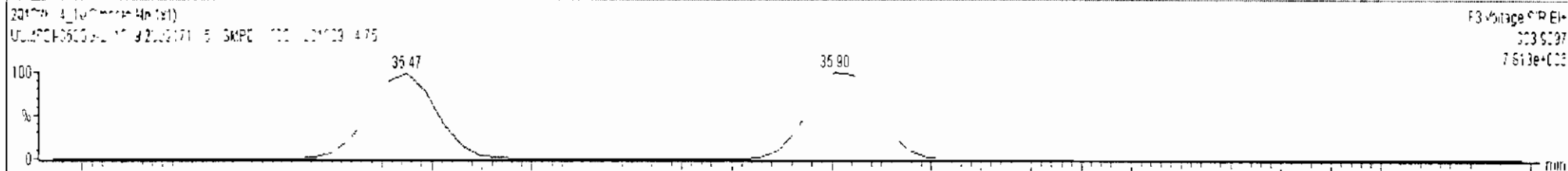
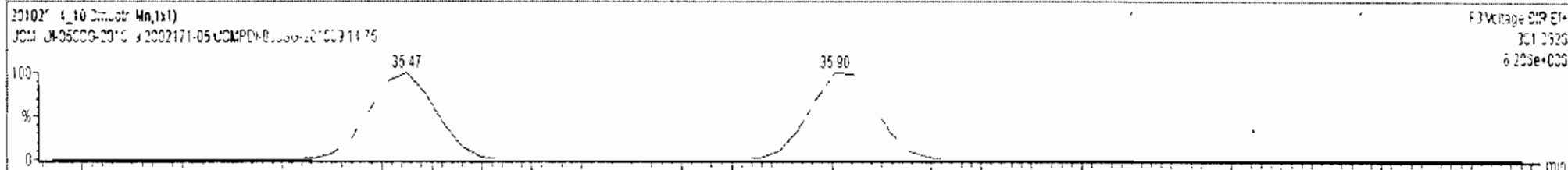
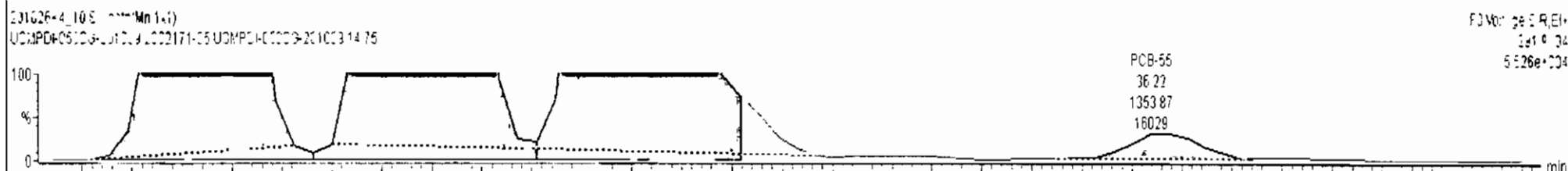
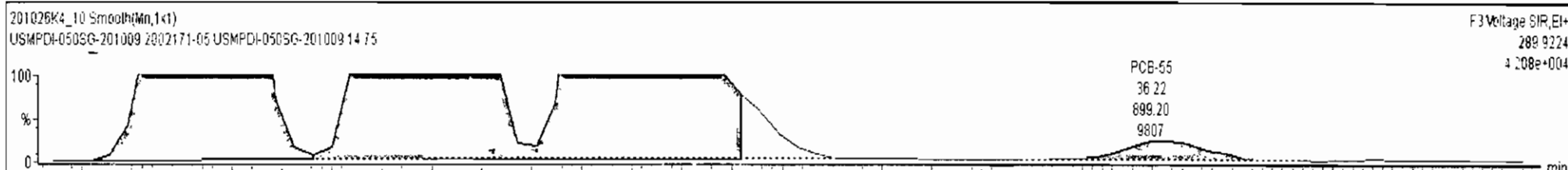
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
14	48 PCB-68	33.78	33.78	4.802e2	5.929e2	0.770	0.81	NO	1.6688	1.6688
15	49 PCB-40	34.00	34.00	4.506e3	5.498e3	0.770	0.82	NO	36.977	36.977
16	50 PCB-57	34.38	34.40	4.334e2	5.230e2	0.770	0.83	NO	1.5086	1.5086
17	51 PCB-67	34.69	34.69	2.229e3	2.375e3	0.770	0.94	YES	7.1125	0.00000
18	52 PCB-58	34.82	34.80	3.718e2	6.887e2	0.770	0.54	YES	1.3022	0.00000
19	53 PCB-63	34.97	34.97	2.928e3	3.823e3	0.770	0.77	NO	11.555	11.555



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fat	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1966		10.8	1981
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1796		9.74	1803
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	115.1		2.21	116.9
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

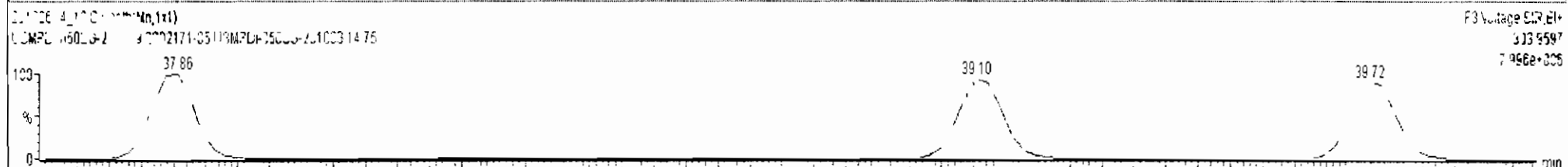
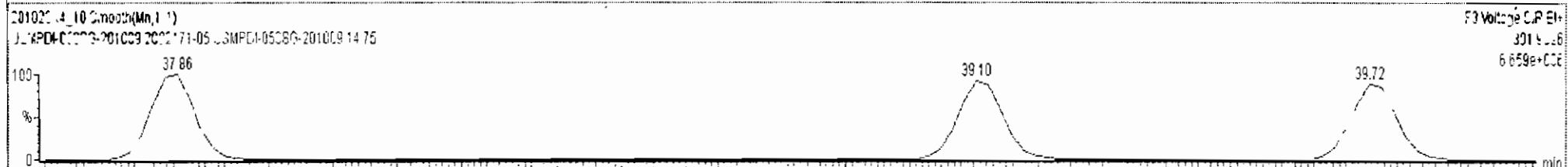
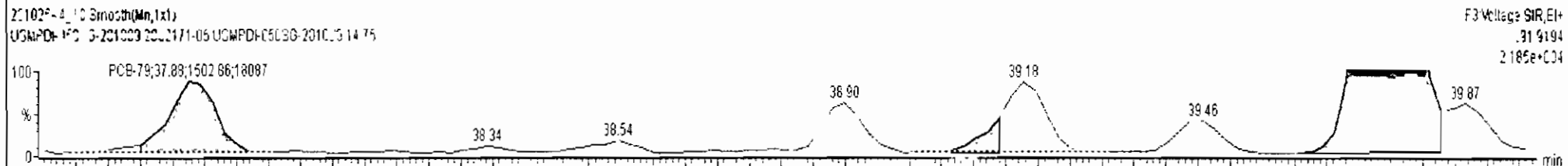
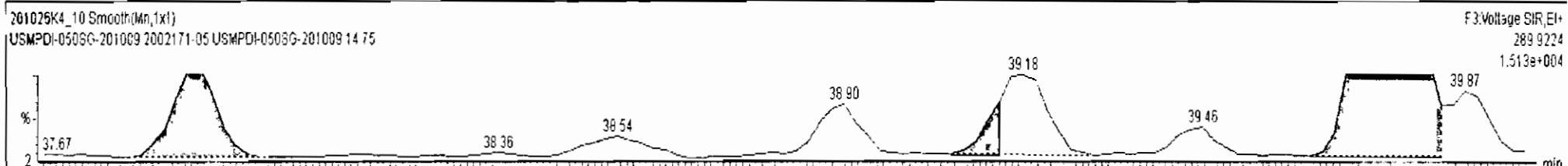
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
20	54 PCB-74	35.26	35.27	3.379e4	4.273e4	0.770	0.79	NO	118.46	118.46
21	55 PCB-61/70	35.49	35.49	7.519e4	9.684e4	0.770	0.78	NO	299.36	299.36
22	56 PCB-76/66	35.68	35.70	6.909e4	8.743e4	0.770	0.79	NO	246.57	246.57
23	58 PCB-55	36.26	36.22	8.992e2	1.354e3	0.770	0.66	NO	3.4447	3.4447



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#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1966		10.8	1976
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1809		9.74	1809
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	116.0		2.21	116.0
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc
24	59 PCB-56/60	36.75	36.76	3.970e4	5.030e4	0.770	0.79	NO	158.01	158.01
25	60 PCB-79	37.88	37.89	1.260e3	1.503e3	0.770	0.64	NO	4.3372	4.3372
26	62 PCB-81	39.12	39.14	2.773e2	3.092e2	0.770	0.90	YES	0.94286	0.00000
27	63 PCB-77	39.74	39.74	9.207e3	1.115e4	0.770	0.83	NO	32.622	32.622

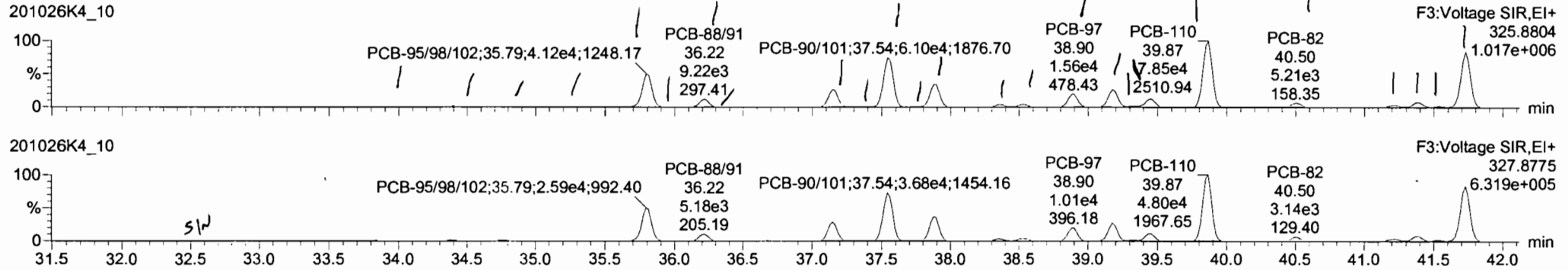


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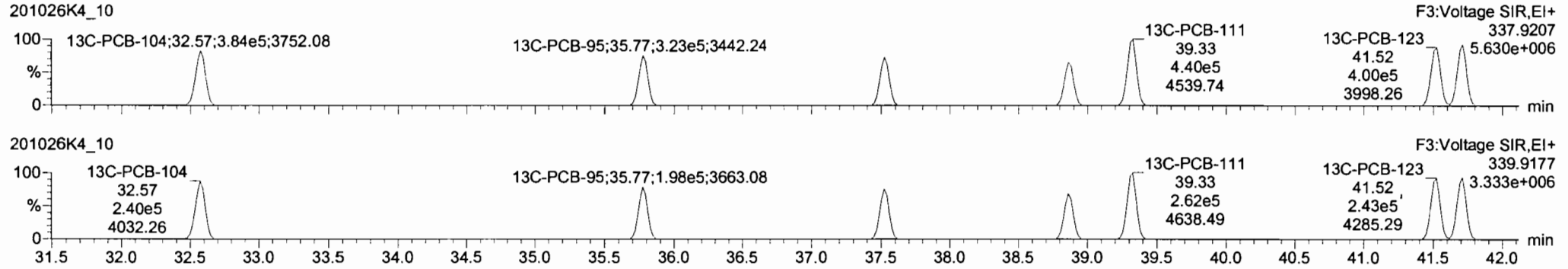
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 Printed: Wednesday, October 28, 2020 13:33:32 Pacific Daylight Time

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

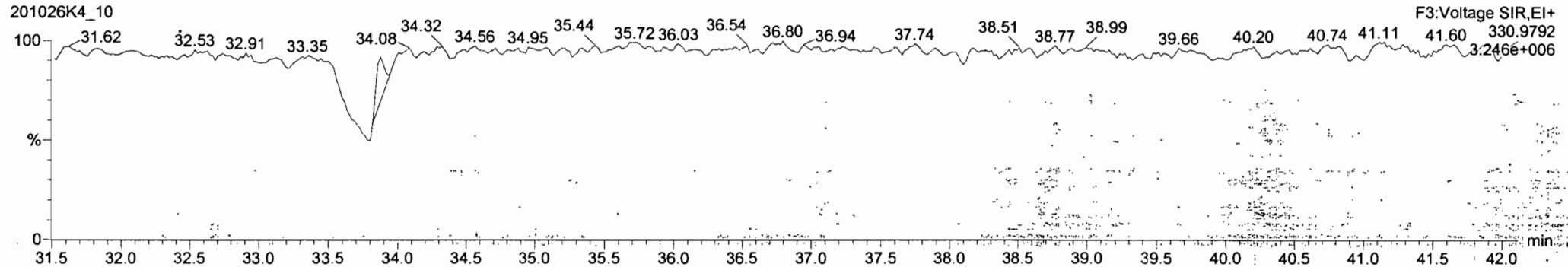
**PCB-104**



**13C-PCB-104**



**PFK3b**



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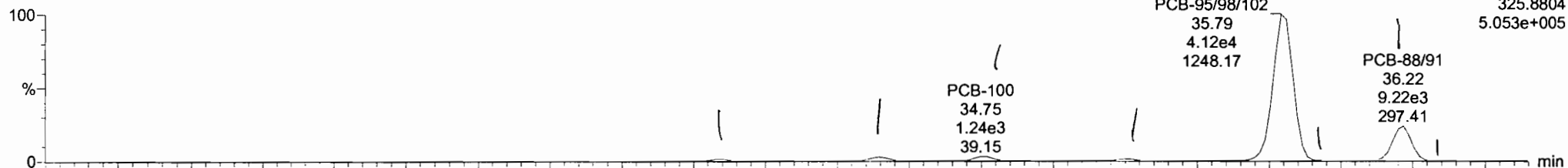
Last Altered: Wednesday, October 28, 2020 13:31:23 Pacific Daylight Time

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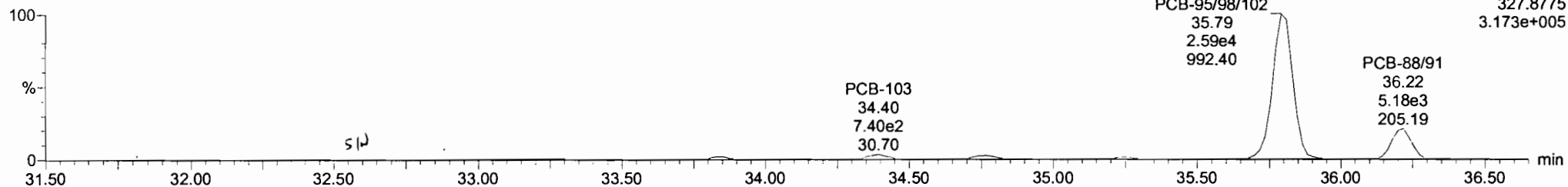
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PCB-96

201026K4\_10

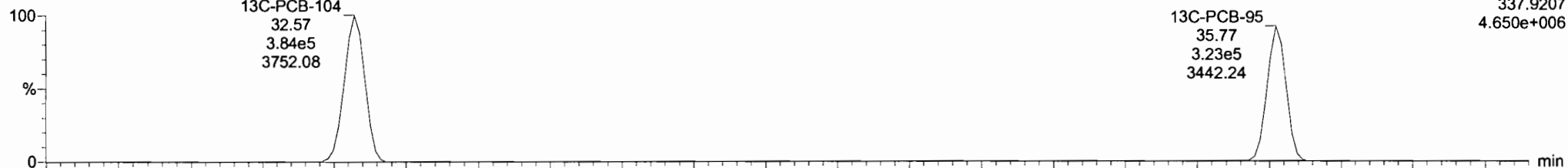


201026K4\_10

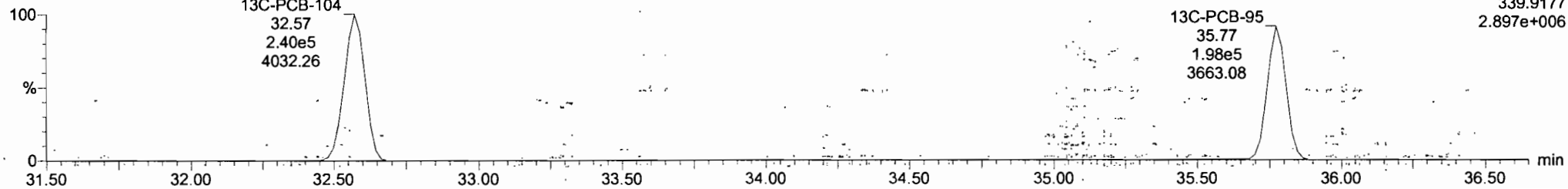


13C-PCB-95

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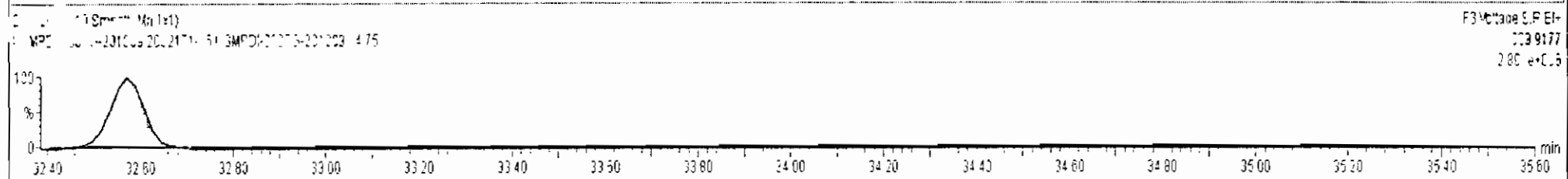
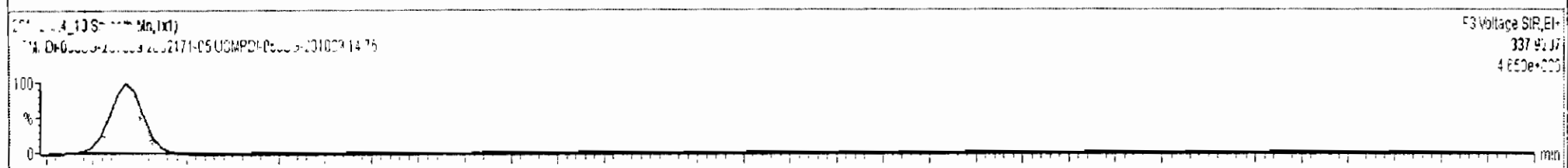
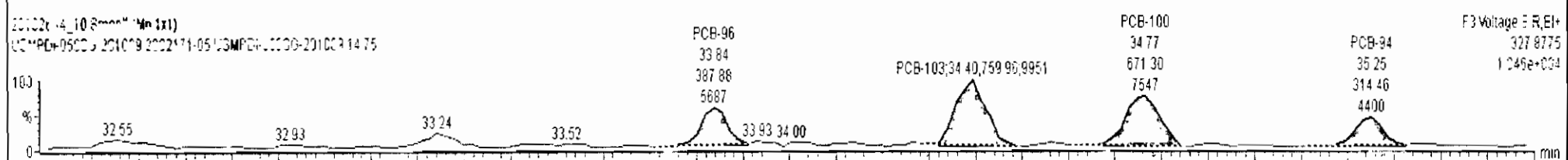
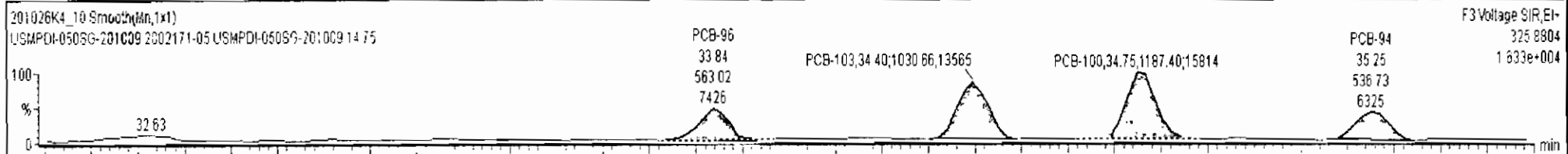


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#	Name	Resp	RA	nly	RRF	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1969		10.8	1978
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1802		9.74	1804
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	115.1		2.21	116.9
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc
1	65 PCB-96	33.90	33.84	5.630e2	3.879e2	1.560	1.45	NO	2.5911	2.5911
2	66 PCB-103	34.45	34.40	1.031e3	7.600e2	1.560	1.36	NO	6.0116	6.0116
3	67 PCB-100	34.82	34.75	1.187e3	6.713e2	1.560	1.77	NO	6.1284	6.1284
4	68 PCB-94	35.25	35.25	5.367e2	3.145e2	1.560	1.71	NO	3.3816	3.3816
5	69 PCB-95/98/102	35.72	35.79	4.124e4	2.592e4	1.560	1.59	NO	210.20	210.20
6	71 PCB-88/91	36.20	36.22	9.220e3	5.179e3	1.560	1.78	NO	50.975	50.975
7	73 PCB-84/87	37.15	37.15	2.089e4	1.399e4	1.560	1.49	NO	133.68	133.68

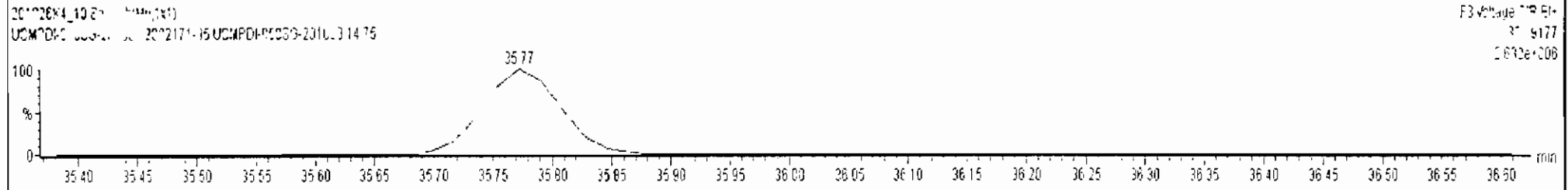
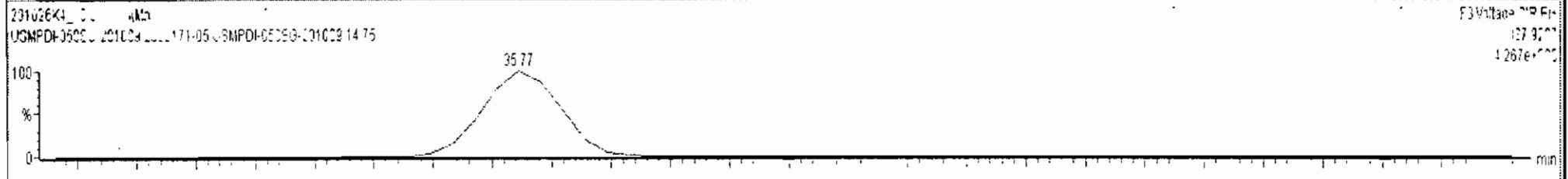
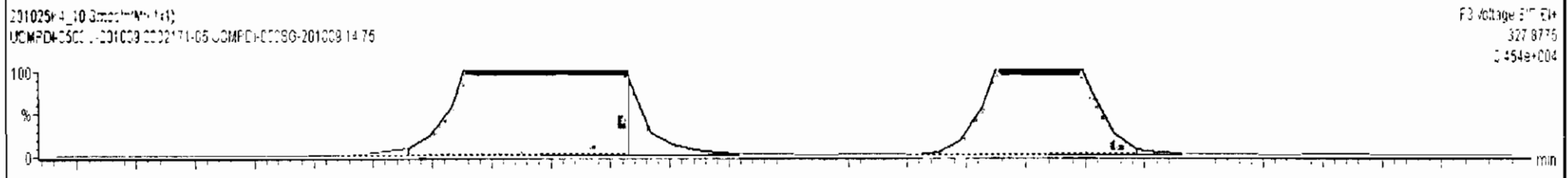
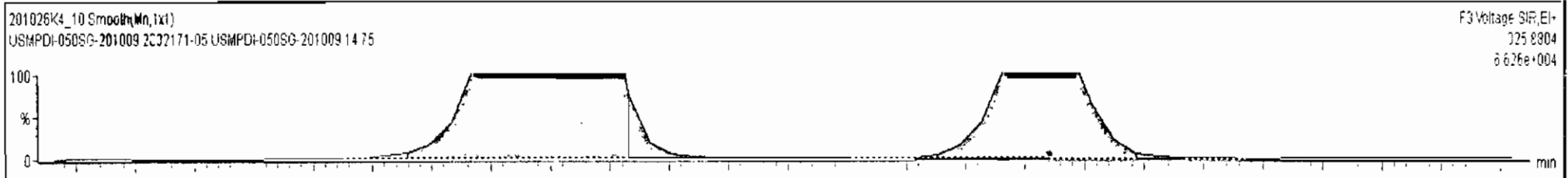
Handwritten notes: .06, .05, .07, +.07 ✓, ✓, ✓



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1969		10.8	1978
229	3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1804		9.74	1806
230	4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	115.1		2.21	116.9
231	3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
5	69 PCB-95/98/102	35.72	35.79	4.041e4	2.536e4	1.560	1.59	NO	205.84	205.84
6	70 PCB-93	35.87	35.87	8.354e2	6.105e2	1.560	1.37	NO	5.8295	5.8295
7	71 PCB-88/91	36.20	36.22	9.106e3	5.216e3	1.560	1.75	NO	50.704	50.704
8	72 PCB-121	36.31	36.29	7.208e1	4.663e1	1.560	1.55	NO	0.26176	0.26176

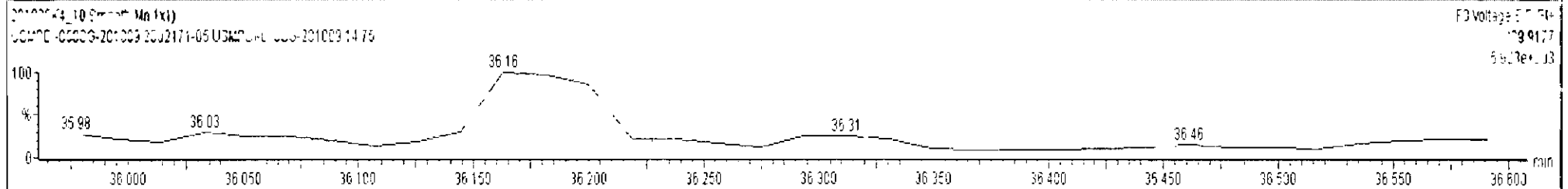
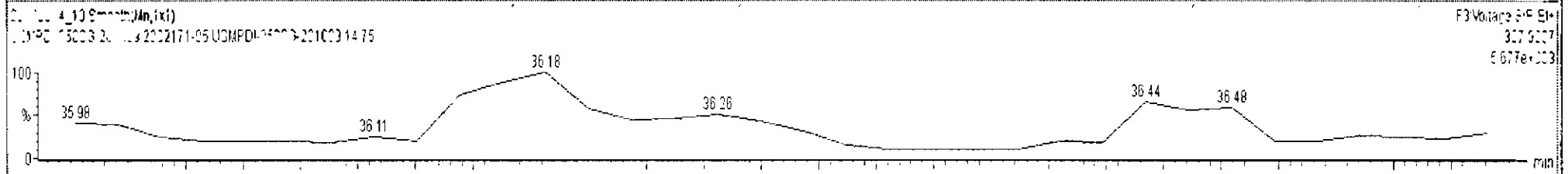
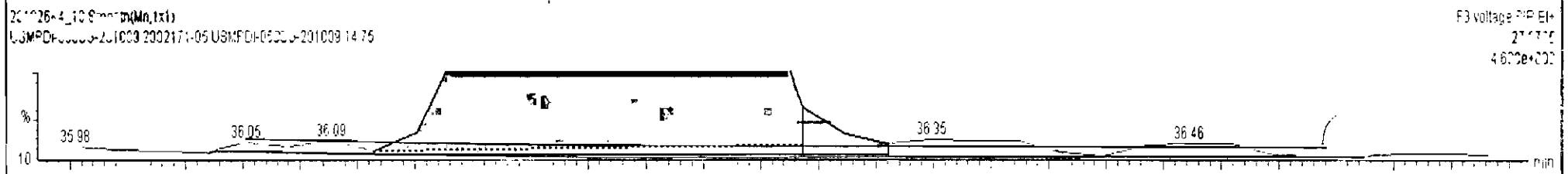
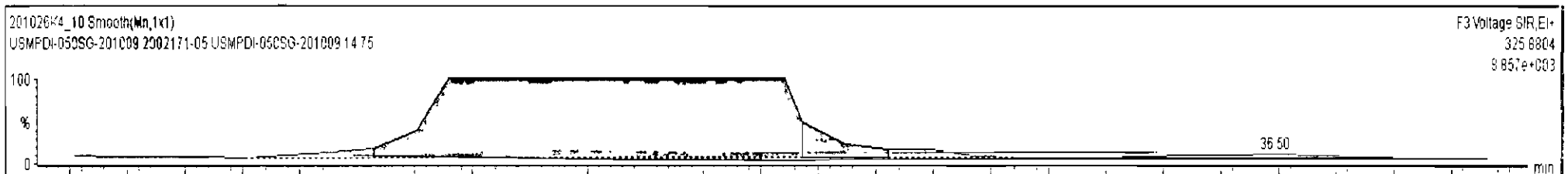




201026K4\_10\* 2002171-05 USMFDI-050SG-201009 14 75 - USMFDI-050SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R..	RRT	RRT Fat	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1969		10.6	1978
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1804		9.74	1806
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	115.1		2.21	116.9
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
5	69 PCB-95/98/102	35.72	35.79	4.041e4	2.536e4	1.560	1.59	NO	205.84	205.84
6	70 PCB-93	35.87	35.87	8.354e2	6.105e2	1.560	1.37	NO	5.8295	5.8295
7	71 PCB-88/91	36.20	36.22	9.106e3	5.216e3	1.560	1.75	NO	50.704	50.704
8	72 PCB-121	36.31	36.29	7.129e1	4.626e1	1.560	1.54	NO	0.25919	0.25919

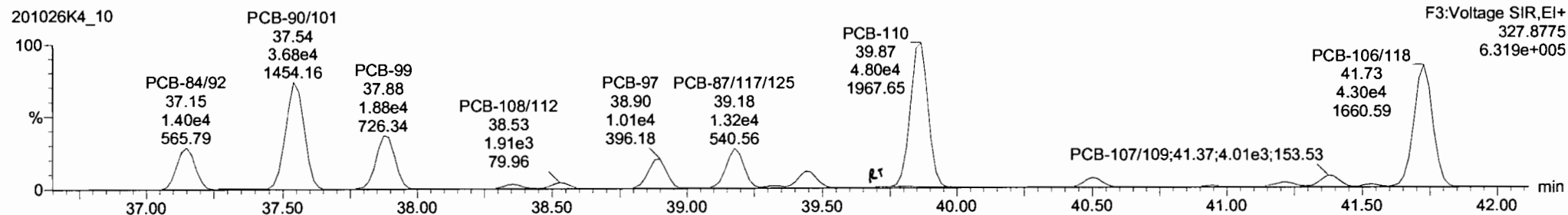
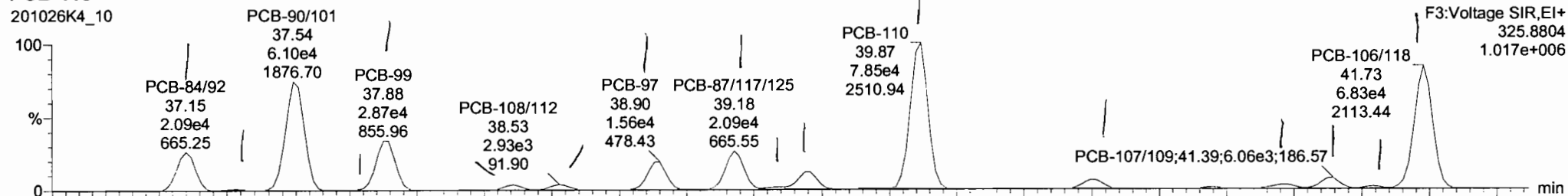


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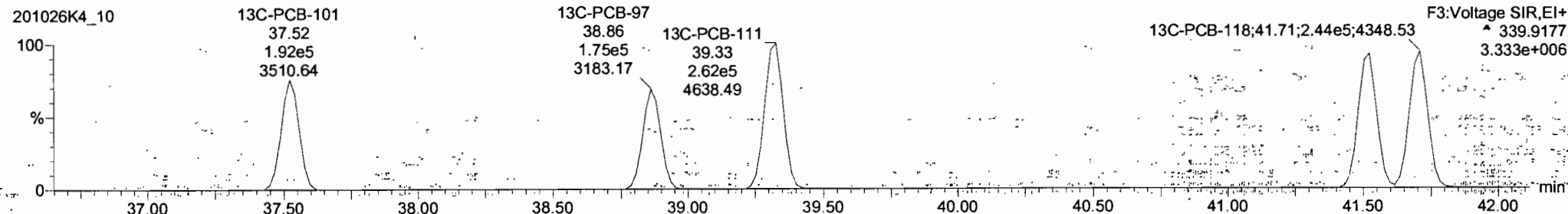
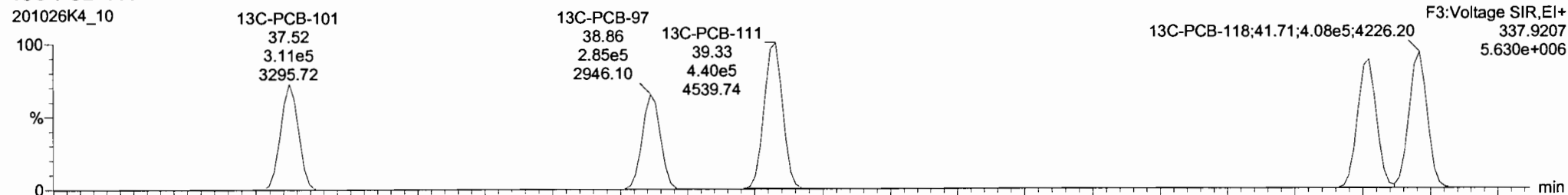
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 Printed: Wednesday, October 28, 2020 13:33:32 Pacific Daylight Time

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

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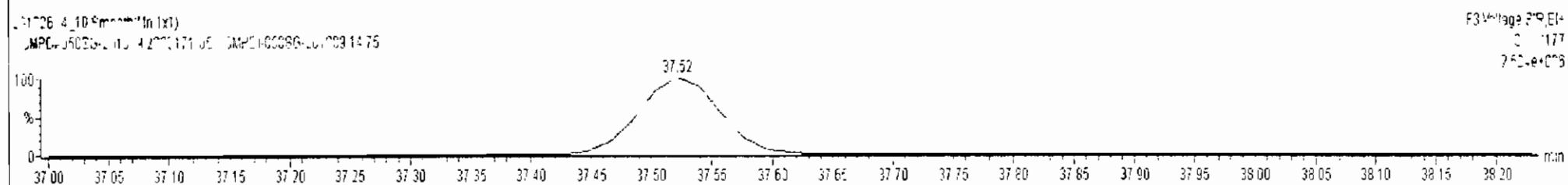
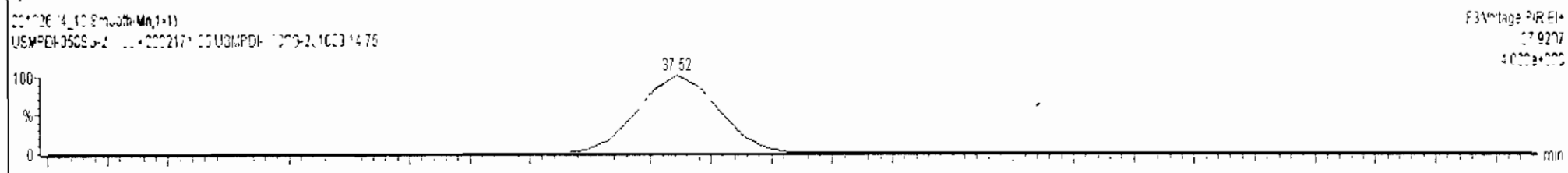
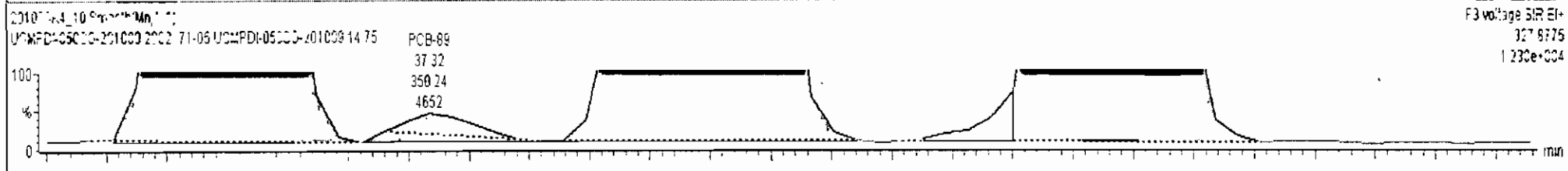
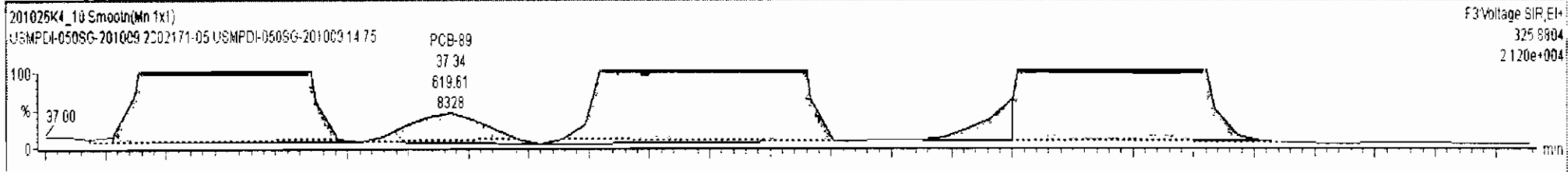
**13C-PCB-111**



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	PRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetr-PCBs				1.0778	5.097	0.00		0.000		NO	1969		10.8	1978
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1808		9.74	1808
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	114.1		2.21	115.8
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

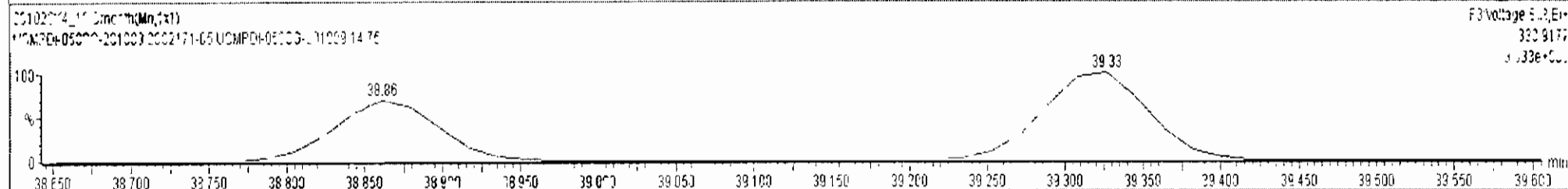
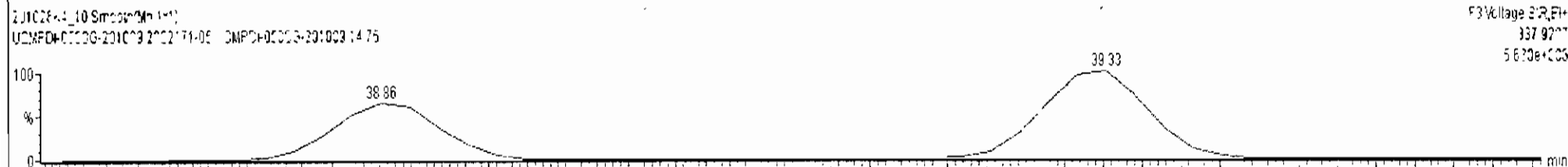
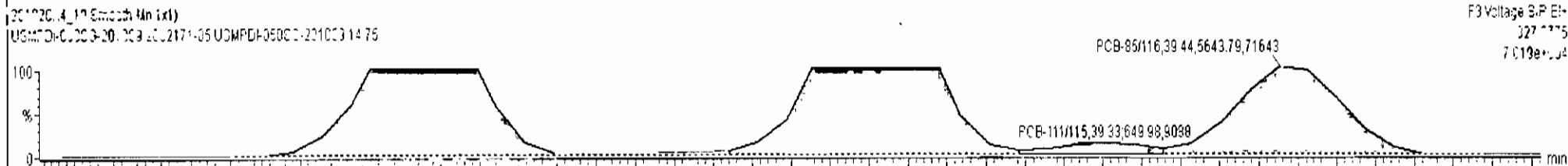
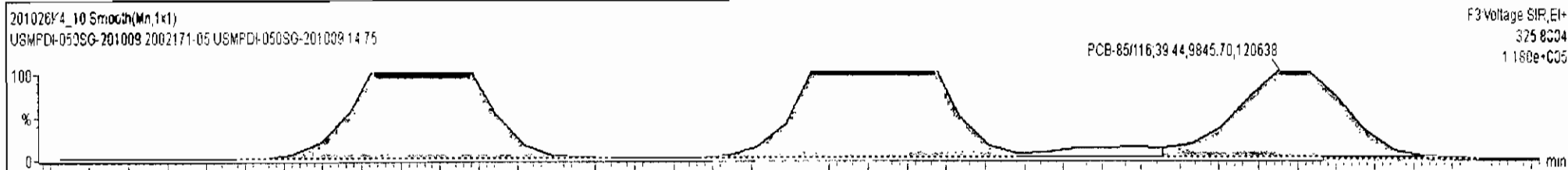
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
9	73 PCB-84/92	37.15	37.15	2.096e4	1.404e4	1.560	1.49	NO	134.14	134.14
10	74 PCB-89	37.34	37.34	6.196e2	3.502e2	1.560	1.77	NO	3.4232	3.4232
11	75 PCB-90/101	37.53	37.54	6.116e4	3.686e4	1.560	1.66	NO	340.55	340.55
12	76 PCB-113	37.78	37.80	3.230e2	2.112e2	1.560	1.53	NO	1.3763	1.3763
13	77 PCB-99	37.88	37.88	2.841e4	1.860e4	1.560	1.53	NO	138.79	138.79
14	78 PCB-119	38.36	38.36	2.583e3	1.467e3	1.560	1.77	NO	9.5565	9.5565



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#	Name	Resp	RA	nLy	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1969		10.8	1978
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1807		9.74	1807
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	1141		2.21	115.8
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.001		0.000		NO	482.4		3.03	507.1

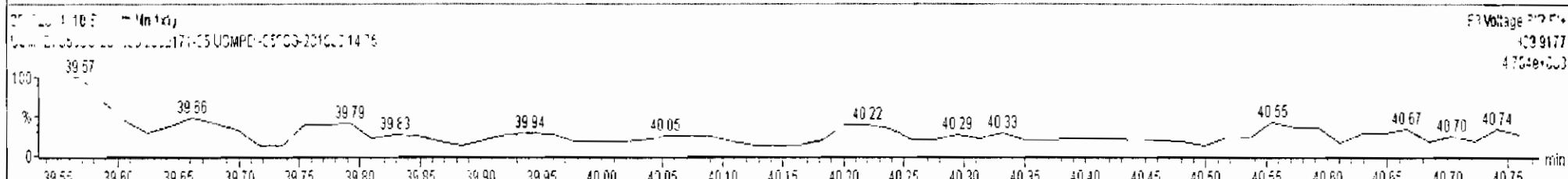
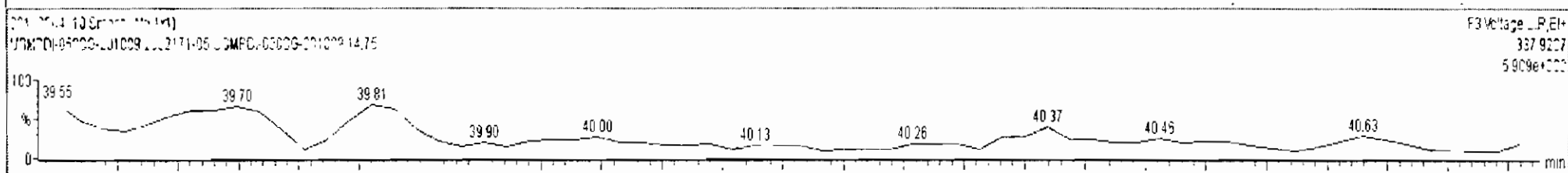
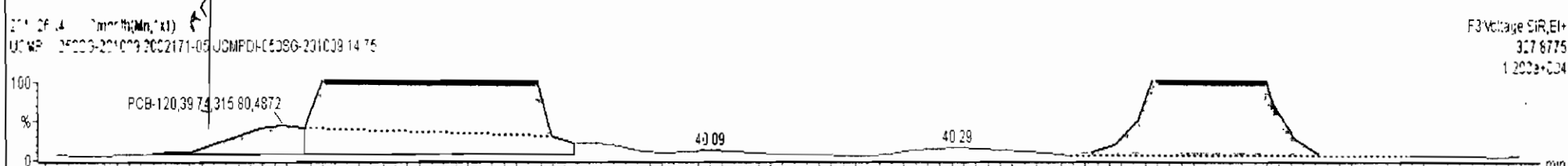
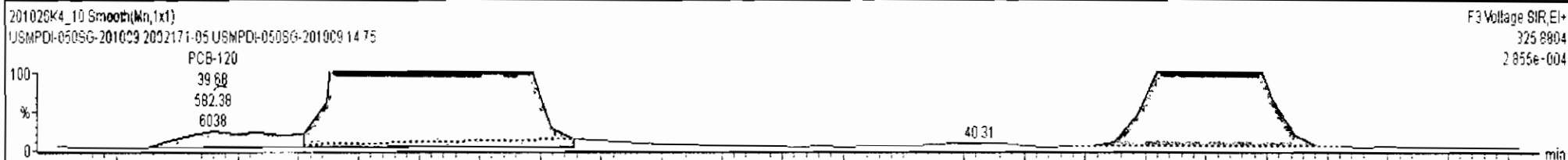
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nLy	EMPC	Conc.
16	81 PCB-97	38.68	38.90	1.565e4	1.003e4	1.560	1.56	NO	85.430	85.430
17	83 PCB-87/117/125	39.17	39.18	2.090e4	1.300e4	1.560	1.61	NO	92.769	92.769
18	84 PCB-111/115	39.33	39.35	1.120e3	6.500e2	1.560	1.72	NO	3.9517	3.9517
19	85 PCB-85/116	39.46	39.44	9.846e3	5.644e3	1.560	1.74	NO	46.833	46.833



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#	Name	Resp	RA	n/y	RFI	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	229 Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1969		10.8	1978
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1809		9.74	1810
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	1141		2.21	115.8
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

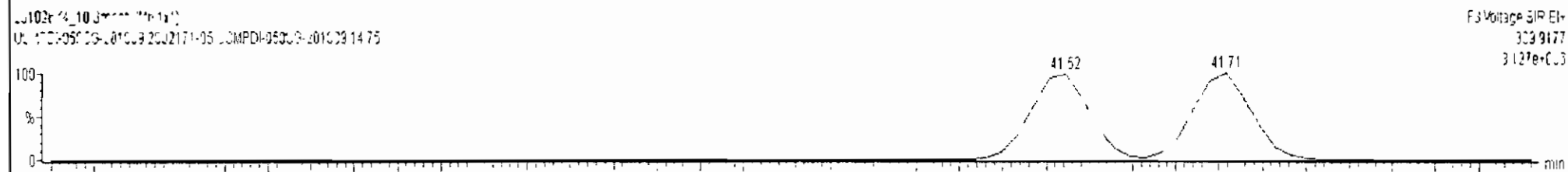
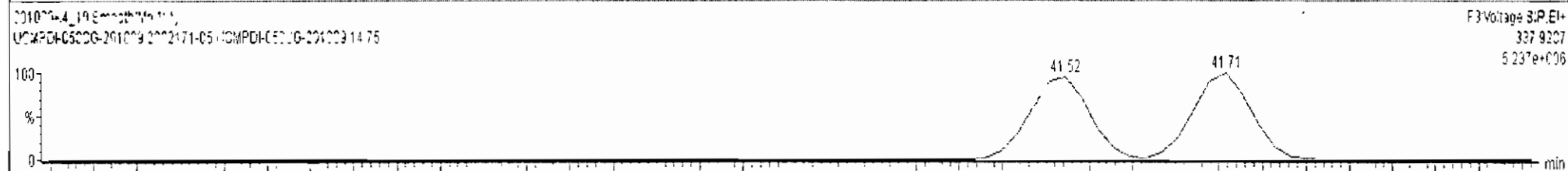
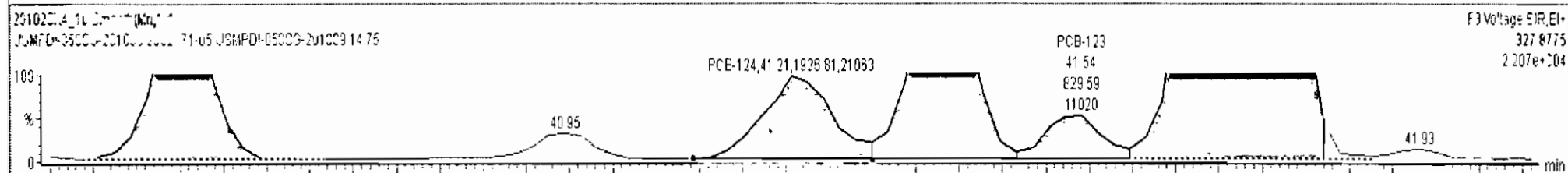
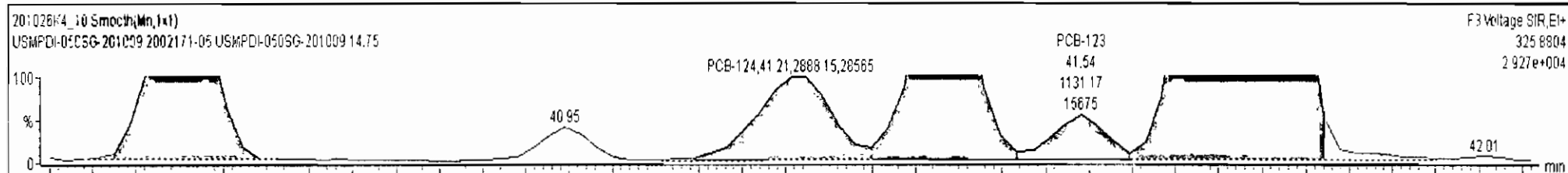
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
19	85 PCB-85/116	39.46	39.44	9.846e3	5.644e3	1.560	1.74	NO	45.833	46.833
20	86 PCB-120	39.72	39.68	5.824e2	3.158e2	1.560	1.84	YES	1.7200	0.00000
21	87 PCB-110	39.87	39.87	7.891e4	4.877e4	1.560	1.62	NO	312.53	312.53
22	88 PCB-82	40.50	40.50	5.205e3	3.106e3	1.560	1.68	NO	32.458	32.458
23	89 PCB-124	41.21	41.21	2.888e3	1.927e3	1.560	1.50	NO	10.518	10.518



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#	Name	Resp	RA	n/y	RFF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
226	228 Total Tetra-PCBs				1.0778	5.097	0.00		0.000		NO	1969		10.8	1978
229	229 3rd Function Penta-PCBs				1.3157	5.097	0.00		0.000		NO	1806		9.74	1806
230	230 4th Function Penta-PCBs				1.0735	5.097	0.00		0.000		NO	114.1		2.21	115.8
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	482.4		3.03	507.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
22	69 PCB-124	41.21	41.21	2.888e3	1.927e3	1.560	1.50	NO	10.518	10.518
23	90 PCB-107/109	41.35	41.39	6.061e3	4.012e3	1.560	1.51	NO	22.906	22.906
24	91 PCB-123	41.54	41.54	1.131e3	8.296e2	1.560	1.36	NO	4.9945	4.9945
25	92 PCB-106/118	41.75	41.73	6.790e4	4.288e4	1.560	1.58	NO	273.27	273.27

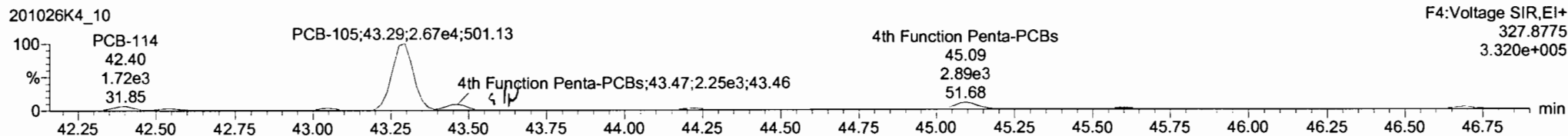
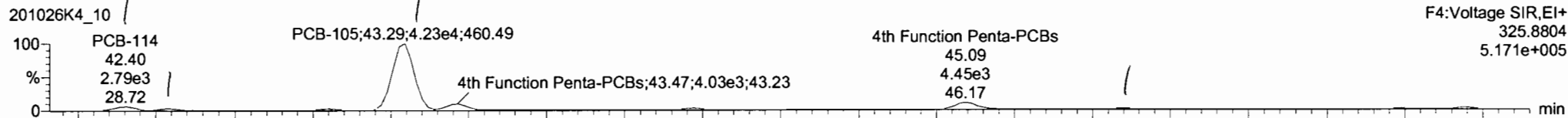


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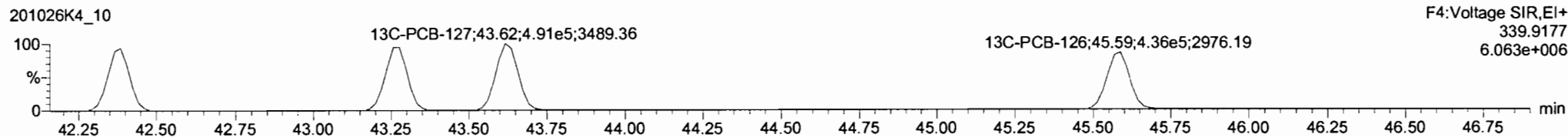
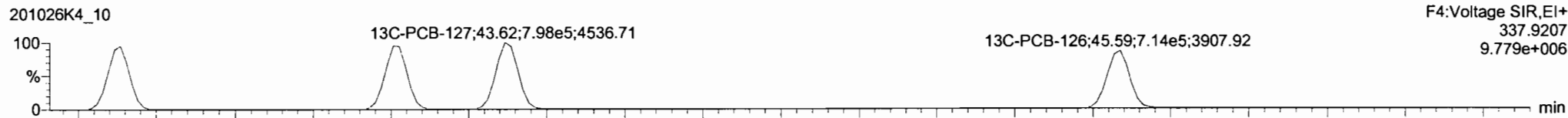
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Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

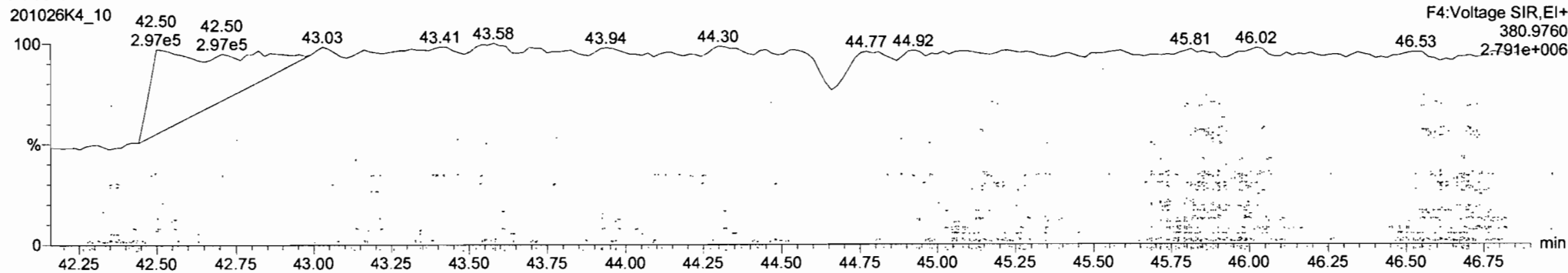
**PCB-114**



**13C-PCB-114**



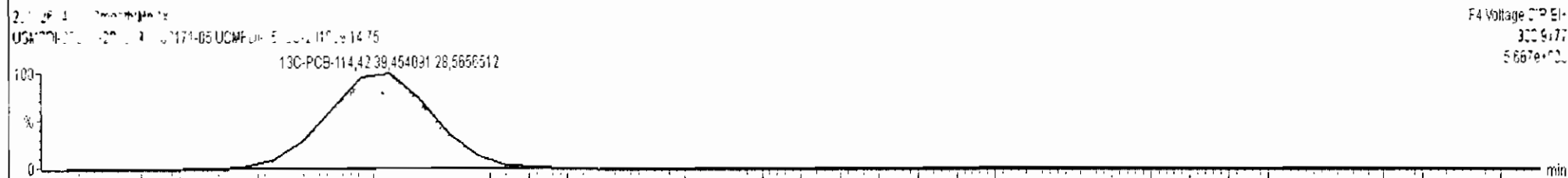
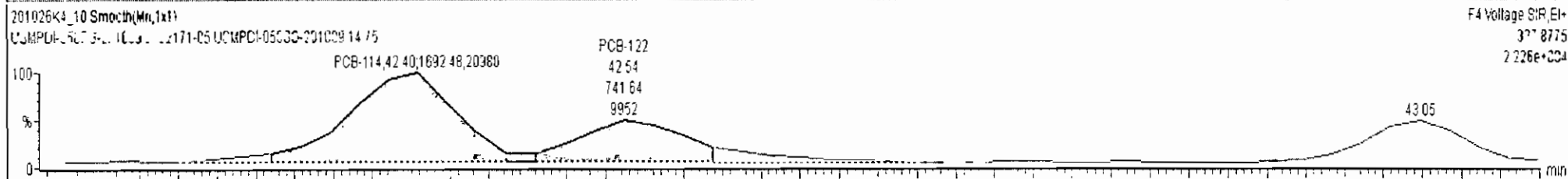
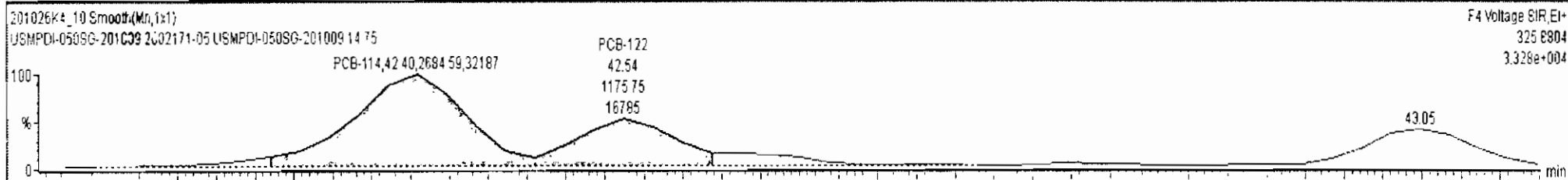
**PFK4a**



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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
226 Total Tetra-PCBs				1.0778	5.097			1970		10.8	1980
229 3rd Function Penta-PCBs				1.3157	5.097			1810		9.74	1810
230 4th Function Penta-PCBs				1.0735	5.097			114		2.21	116
231 3rd Function Hexa-PCBs				0.9505	5.097			482		3.03	507

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 PCB-114	42.40	2.685e3	1.692e3	1.59	NO	6.2610	6.2611
2 PCB-122	42.54	1.176e3	7.416e2	1.59	NO	3.3140	3.3145



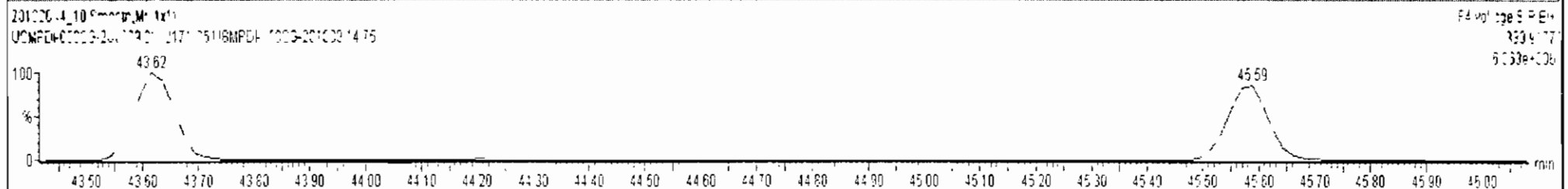
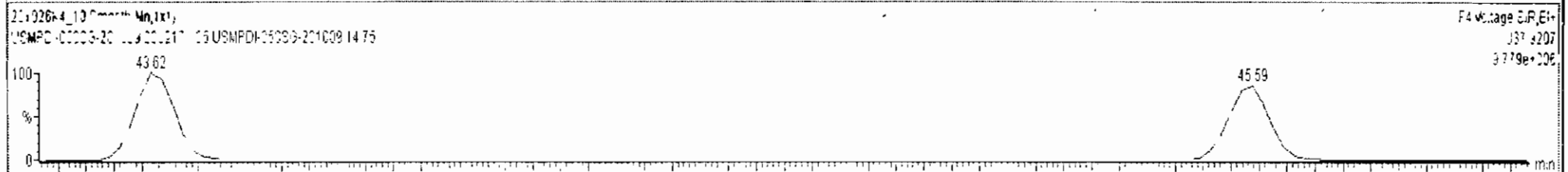
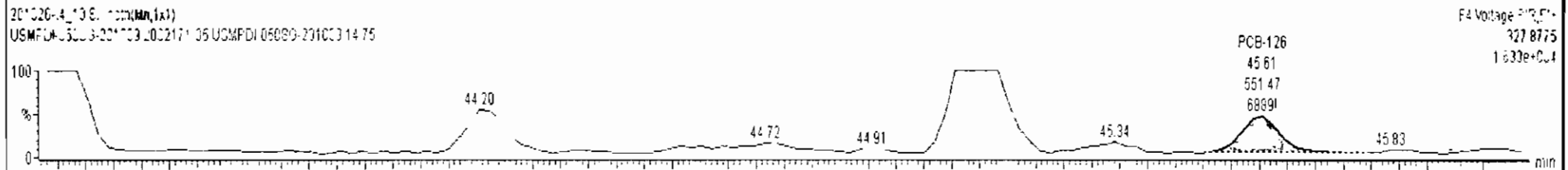
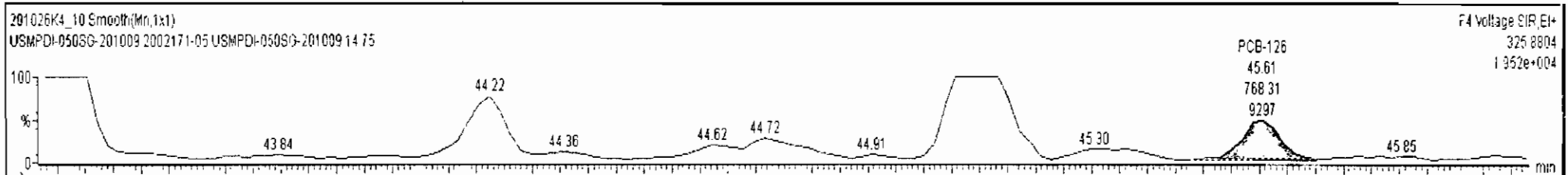
42.200 42.250 42.300 42.350 42.400 42.450 42.500 42.550 42.600 42.650 42.700 42.750 42.800 42.850 42.900 42.950 43.000 43.050 43.100 min



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#	Name	Resp	IS Resp	IS#	RA	nly	RRF	wVcl	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
229	3rd Function Penta-PCBs							5.097	0.00			0.000	NO	1809		9.74	1809
230	4th Function Penta-PCBs							5.097	0.00			0.000	NO	116.0		2.21	116.0
231	3rd Function Hexa-PCBs							5.097	0.00			0.000	NO	482.4		3.03	507.1
232	4th Function Hexa-PCBs							5.097	0.00			0.000	NO	1205		8.55	1205

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	nly	EMPC	Conc.	Primar...	1° Det ...
1	93 PCB-114	42.41	42.40	2.685e3	1.692e3	1.560	1.59	NO	6.2611	6.2611	MM	MM
2	94 PCB-122	42.56	42.54	1.176e3	7.416e2	1.560	1.59	NO	3.3145	3.3145	MM	MM
3	95 PCB-105	43.27	43.29	4.232e4	2.666e4	1.550	1.59	NO	104.49	104.49	dd	dd
4	97 PCB-126	45.61	45.61	7.683e2	5.515e2	1.560	1.39	NO	1.9218	1.9218	MM	MM



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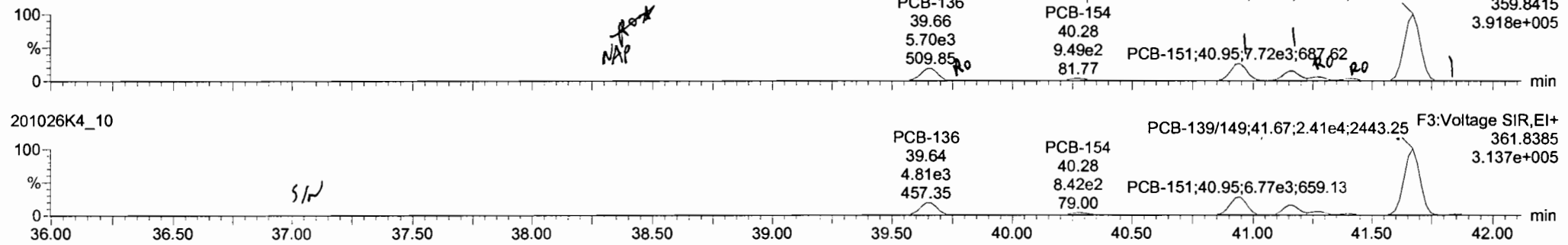
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\*by 11-02-2020

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

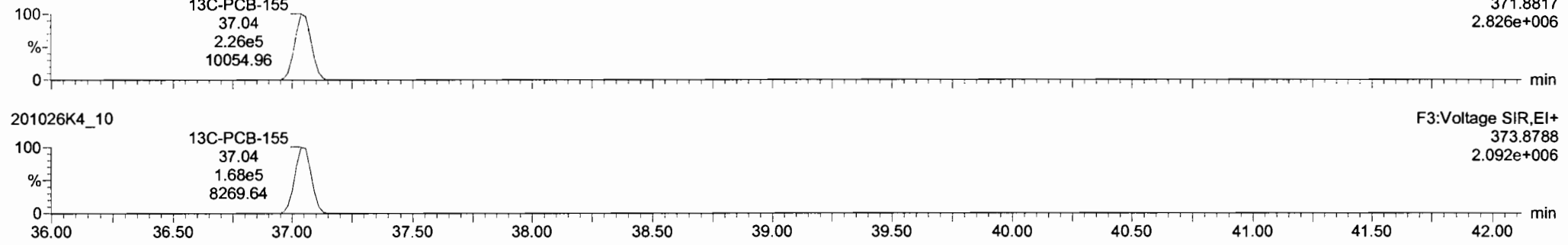
**PCB-155**

201026K4\_10



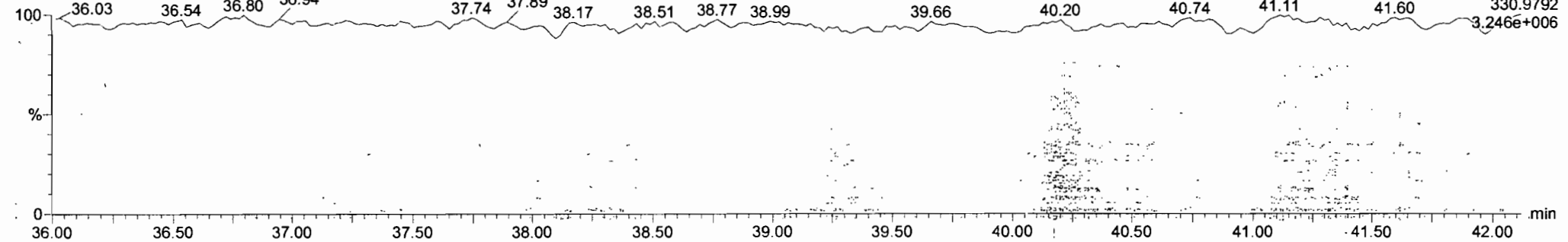
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201026K4\_10



**PFK3c**

201026K4\_10

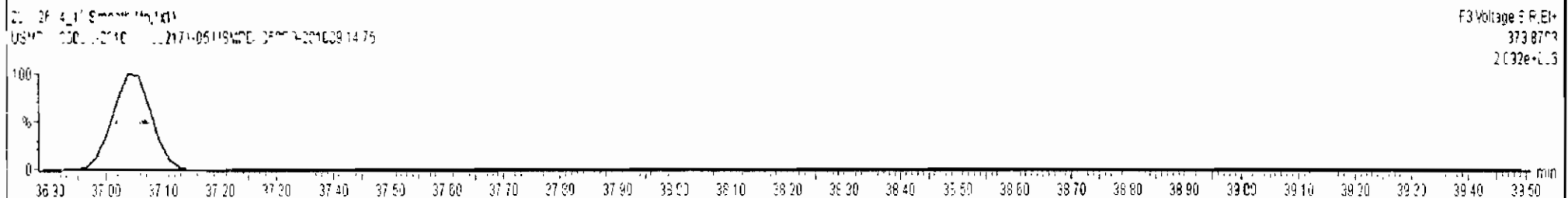
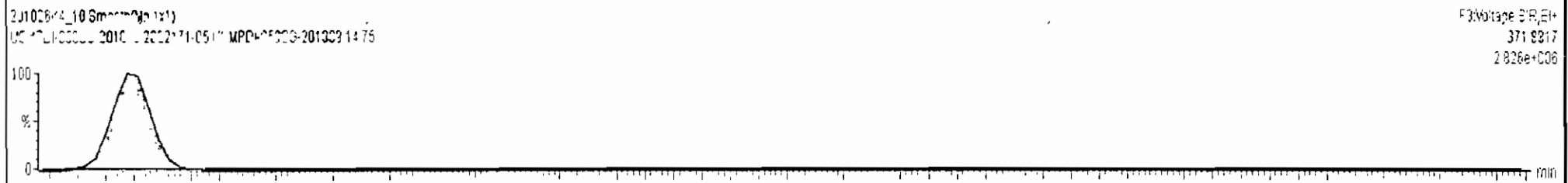
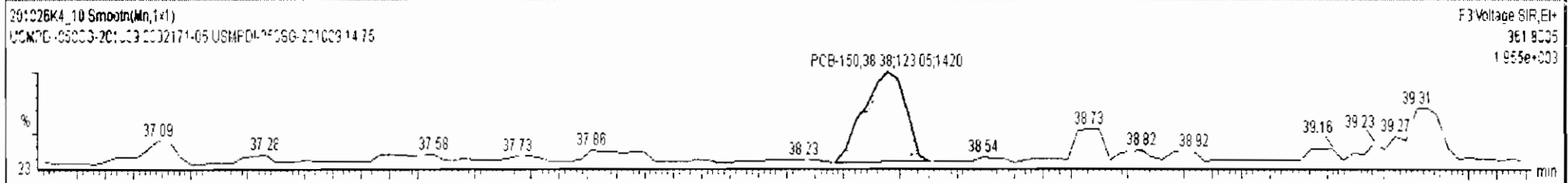
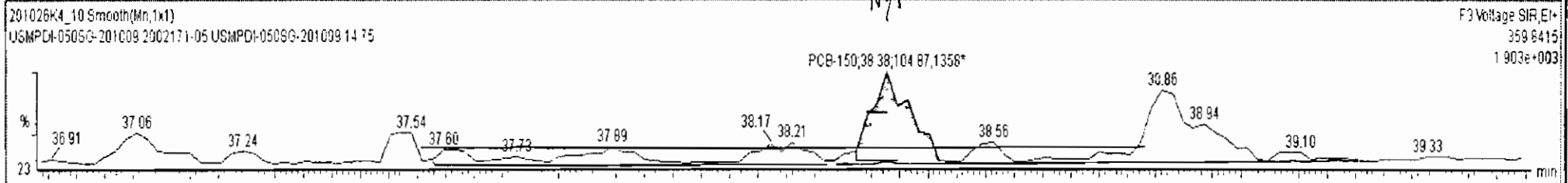


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#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs							5.097	0.00			0.000	NO	486.5		3.03	511.6
232	4th Function Hexa-PCBs							5.097	0.00			0.000	NO	1205		8.55	1205
233	Total Hepta-PCBs							5.097	0.00			0.000	NO	1002		7.10	1013
234	4th Function Octa-PCBs							5.097	0.00			0.000	NO	164.7		2.16	186.1

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primer	1° Det.
1	99 PCB-150	38.36	38.38	1.110e2	1.231e2	1.240	0.90	YES	0.92127	0.00000	MM	MM
2	102 PCB-136	39.64	39.66	5.664e3	4.719e3	1.240	1.20	NO	50.643	50.643	MM	MM
3	103 PCB-148	38.76	38.77	1.429e2	1.045e2	1.240	1.45	YES	1.3846	0.00000	MM	MM

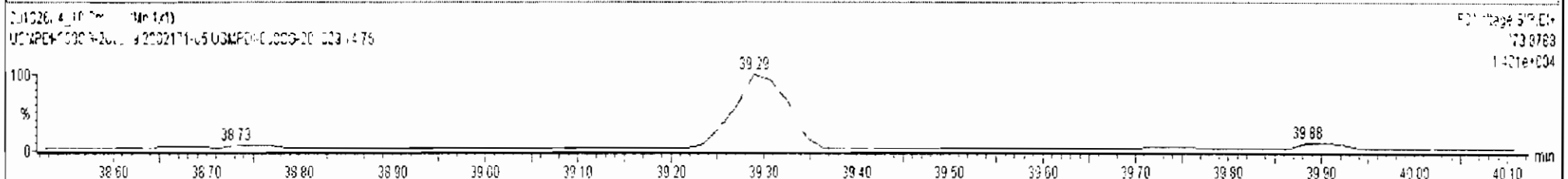
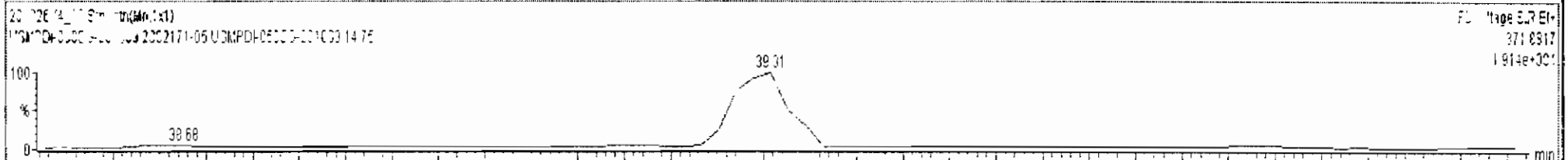
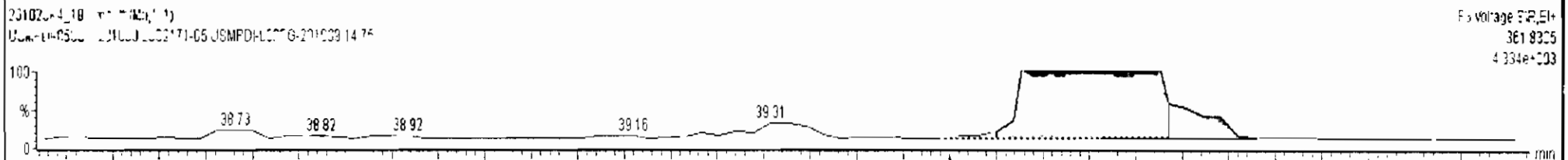
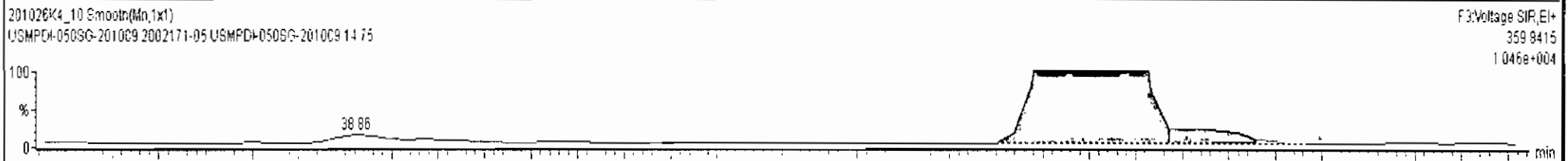
NAP



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#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
231	2... 3rd Function Hexa-PCBs							5.097	0.00			0.000	NO	486.5		3.03	511.5
232	2... 4th Function Hexa-PCBs							5.097	0.00			0.000	NO	1205		8.55	1205
233	2... Total Hepta-PCBs							5.097	0.00			0.000	NO	1002		7.10	1013
234	2... 4th Function Octa-PCBs							5.097	0.00			0.000	NO	1647		2.16	186.1

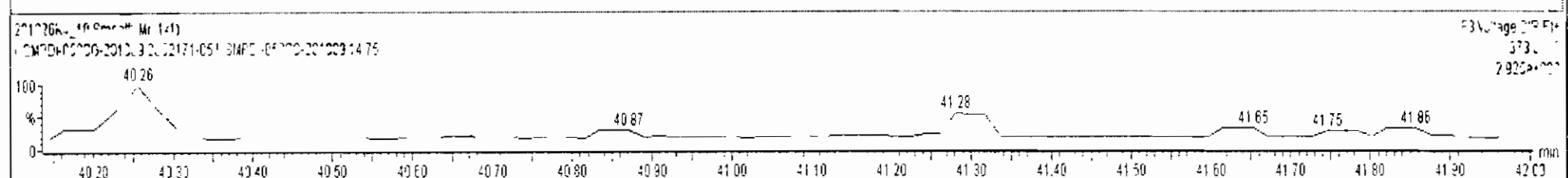
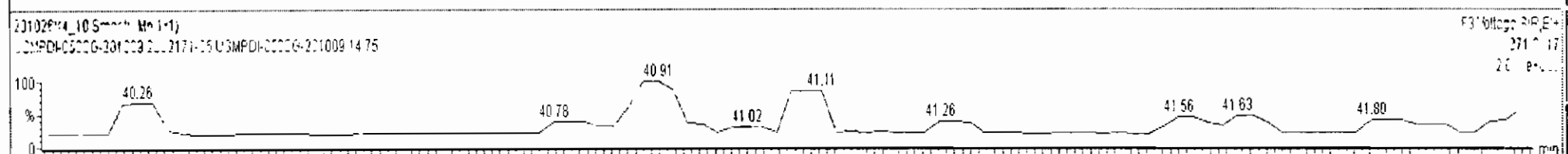
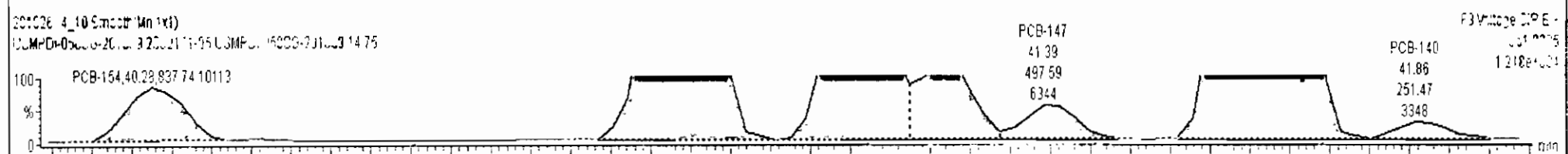
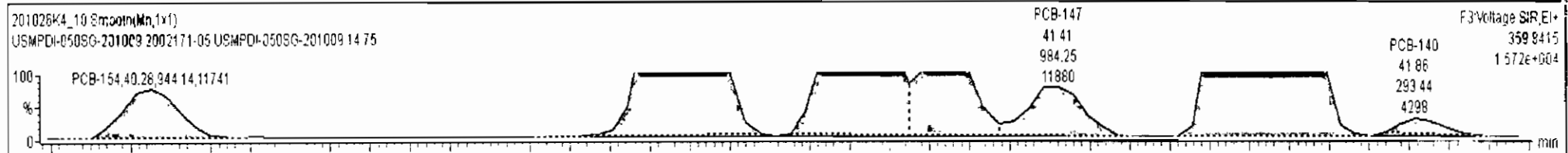
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred.RA	RA	n/y	EMPC	Conc.	Primer...	1° Det
1	99 PCB-150	38.36	38.36	1.049e2	1.231e2	1.240	0.85	YES	0.87071	0.00000	MM	MM
2	102 PCB-136	39.64	39.66	5.664e3	4.719e3	1.240	1.20	NO	50.643	50.643	MM	MM
3	103 PCB-148	39.75	39.77	1.525e2	1.045e2	1.240	1.46	YES	1.3846	0.00000	MM	MM
4	104 PCB-154	40.26	40.28	9.441e2	8.377e2	1.240	1.13	NO	9.6550	9.6550	MM	MM
5	105 PCB-151	40.93	40.95	7.793e3	6.791e3	1.240	1.15	NO	92.331	92.331	MM	MM
6	106 PCB-135	41.15	41.17	4.885e3	3.662e3	1.240	1.22	NO	42.002	42.002	MM	MM



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#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wtVol	Pred.RT	RT	RRT	Pred RRT	Check RRT	Conc	%Rec	DL	EMPC
231	2... 3rd Function Hexa-PCBs							5.097	0.00			0.000	NO	496.5		3.03	510.7
232	2... 4th Function Hexa-PCBs							5.097	0.00			0.000	NO	1205		8.55	1205
233	2... Total Hepta-PCBs							5.097	0.00			0.000	NO	1002		7.10	1013
234	2... 4th Function Octa-PCBs							5.097	0.00			0.000	NO	164.7		2.16	186.1

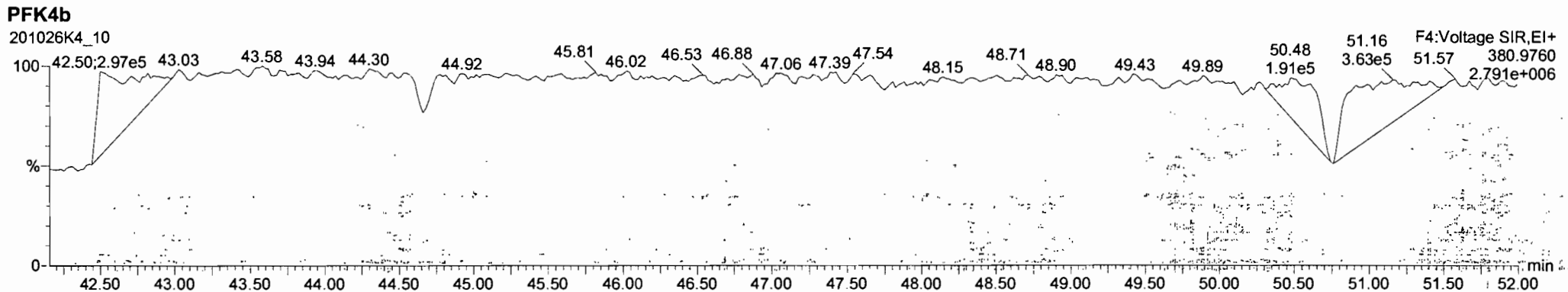
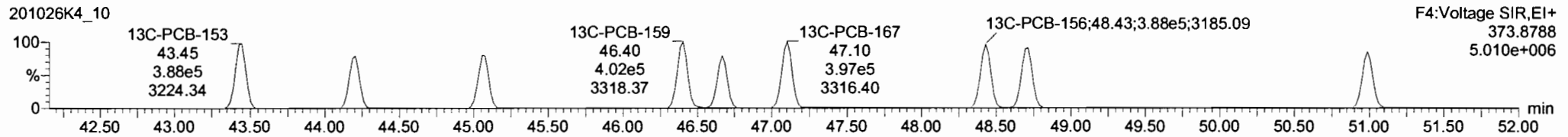
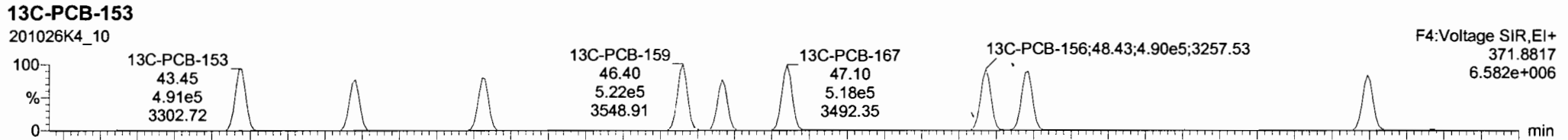
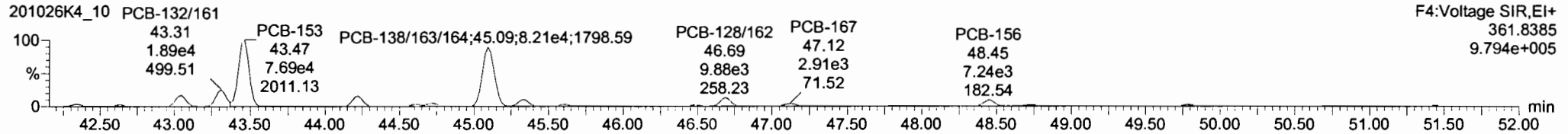
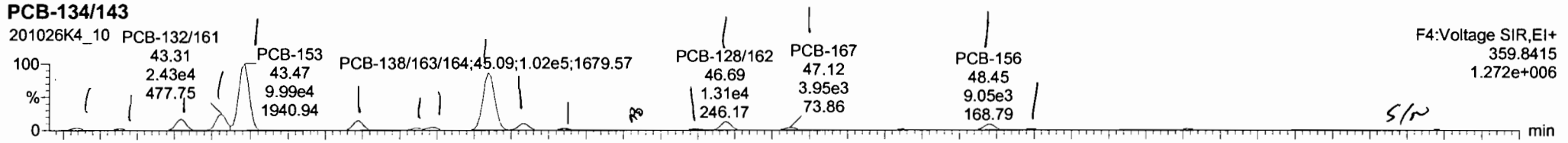
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primer	1° Det...
3	104 PCB-154	40.26	40.28	9.441e2	8.377e2	1.240	1.13	NO	9.6550	9.6550	MM	MM
4	105 PCB-151	40.93	40.95	7.793e3	6.791e3	1.240	1.15	NO	92.331	92.331	MM	MM
5	106 PCB-135	41.15	41.17	4.485e3	3.663e3	1.240	1.22	NO	43.993	43.993	MM	MM
6	107 PCB-144	41.26	41.26	1.667e3	1.143e3	1.240	1.46	YES	15.154	0.00000	MM	MM
7	108 PCB-147	41.39	41.41	9.842e2	4.976e2	1.240	1.96	YES	6.6508	0.00000	MM	MM
8	109 PCB-139/149	41.68	41.67	3.041e4	2.411e4	1.240	1.26	NO	286.43	286.43	MM	MM
9	110 PCB-140	41.86	41.86	2.934e2	2.515e2	1.240	1.17	NO	3.4190	3.4190	MM	MM



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Printed: Wednesday, October 28, 2020 13:33:32 Pacific Daylight Time

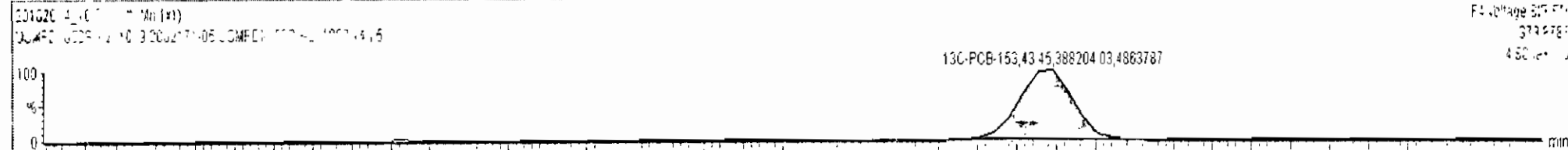
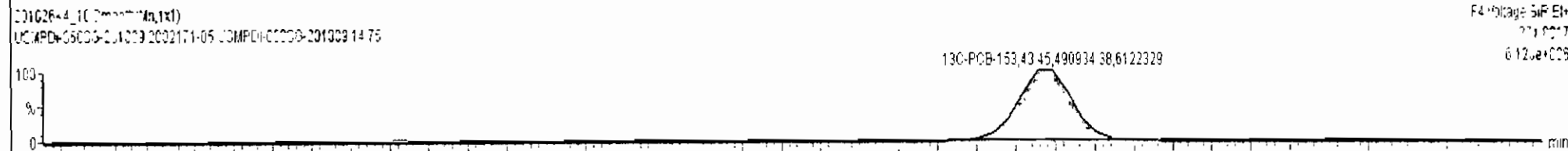
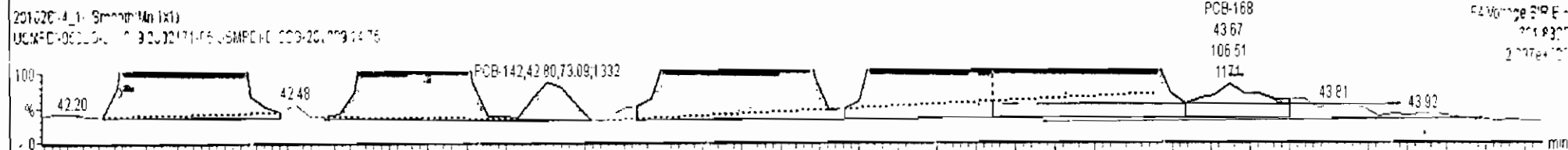
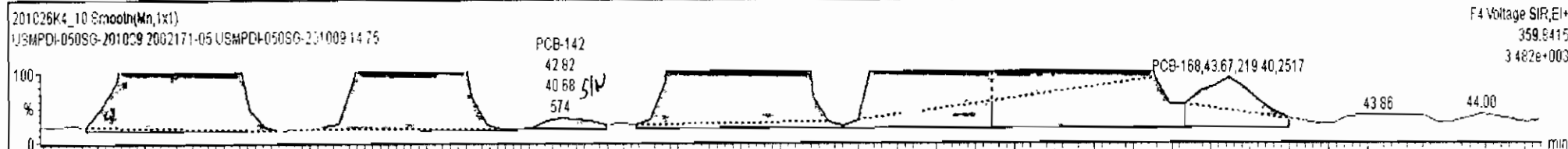
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\*201026K4\_10 - 2002171.05 USMPDI-050SG-201009-14.75 - USMPDI-050SG-201009

#	Name	Resp	IS Resp	IS#	RA	n/y	RRT	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs							5.097	0.00			0.000	NO	496.5		3.03	511.5
232	4th Function Hexa-PCBs							5.097	0.00			0.000	NO	1207		8.55	1208
233	Total Hepta-PCBs							5.097	0.00			0.000	NO	1002		7.10	1013
234	4th Function Octa-PCBs							5.097	0.00			0.000	NO	164.7		2.15	185.1

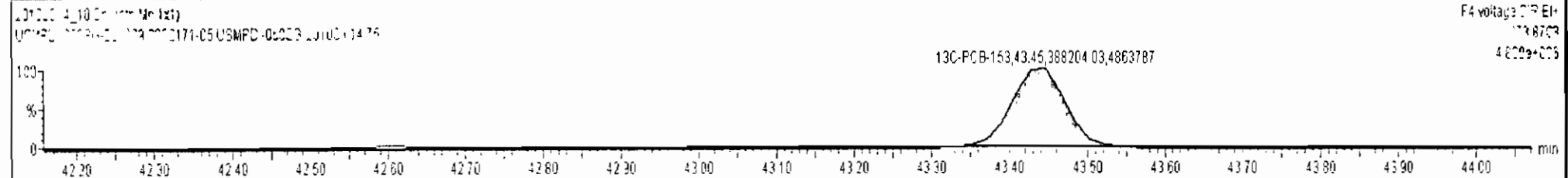
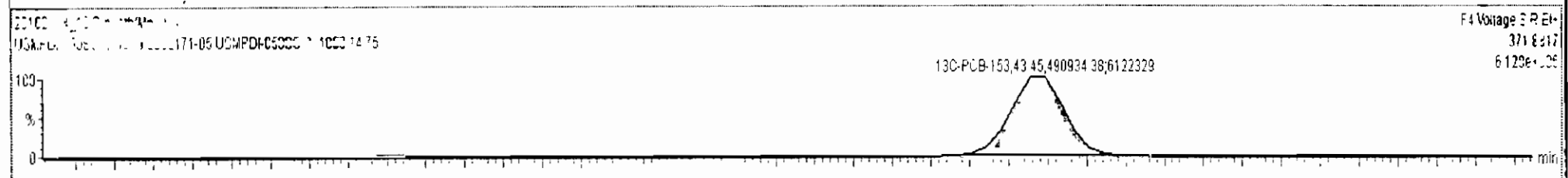
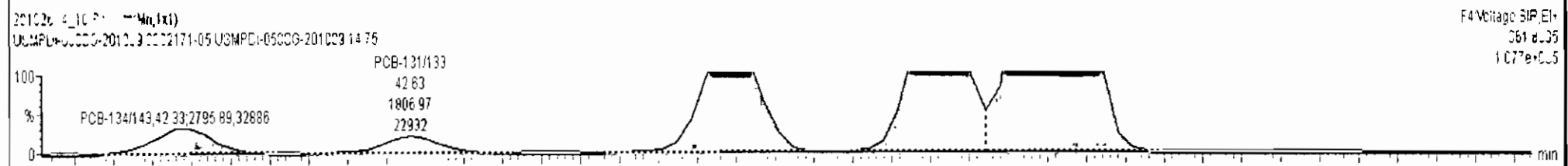
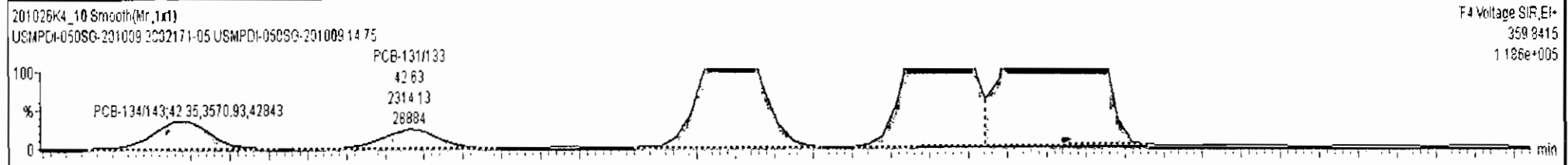
#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primer	1* Det....
1	111 PCB-134/143	42.33	42.35	3.567e3	2.806e3	1.240	1.27	NO	18.741	18.741	MM	MM
2	112 PCB-131/133	42.65	42.63	2.321e3	1.816e3	1.240	1.28	NO	11.248	11.248	MM	MM
3	113 PCB-142	42.81	42.82	4.068e1	7.309e1	1.240	0.56	YES	0.21739	0.00000	MM	MM
4	114 PCB-146/165	43.05	43.05	1.898e4	1.332e4	1.240	1.27	NO	66.497	66.497	MM	MM
5	115 PCB-132/161	43.29	43.31	2.442e4	1.896e4	1.240	1.29	NO	94.532	94.532	MM	MM
6	116 PCB-153	43.46	43.47	1.004e5	7.706e4	1.240	1.30	NO	369.80	369.80	MM	MM
7	117 PCB-168	43.69	43.67	2.194e2	1.065e2	1.240	2.06	YES	0.49419	0.00000	MM	MM



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#	Name	Resp	IS Resp	IS#	RA	n/y	RRF	wt/val	Pred.RT	RT	RRT	Pred.RRT	Check RRT	Conc	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs							5.097	0.00			0.000	NO	486.5		3.03	510.7
232	4th Function Hexa-PCBs							5.097	0.00			0.000	NO	1207		8.55	1207
233	Total Hepta-PCBs							5.097	0.00			0.000	NO	1002		7.10	1013
234	4th Function Octa-PCBs							5.097	0.00			0.000	NO	164.7		2.16	186.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	Pred RA	RA	n/y	EMPC	Conc.	Primer	1° Det
1	111 PCB-134/143	42.33	42.35	3.571e3	2.796e3	1.240	1.28	NO	18.720	18.720	MM	MM
2	112 PCB-131/133	42.65	42.63	2.314e3	1.807e3	1.240	1.28	NO	11.204	11.204	MM	MM
3	114 PCB-145/165	43.05	43.05	1.699e4	1.332e4	1.240	1.27	NO	66.497	66.497	MM	MM
4	115 PCB-132/161	43.29	43.31	2.442e4	1.896e4	1.240	1.29	NO	94.532	94.532	MM	MM
5	116 PCB-153	43.45	43.47	1.003e5	7.703e4	1.240	1.30	NO	369.63	369.63	MM	MM

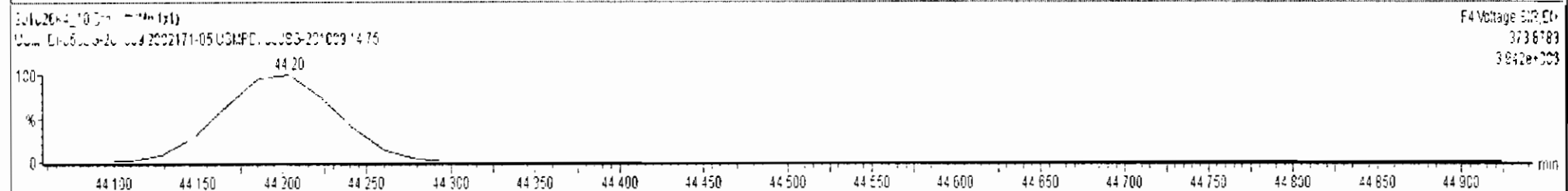
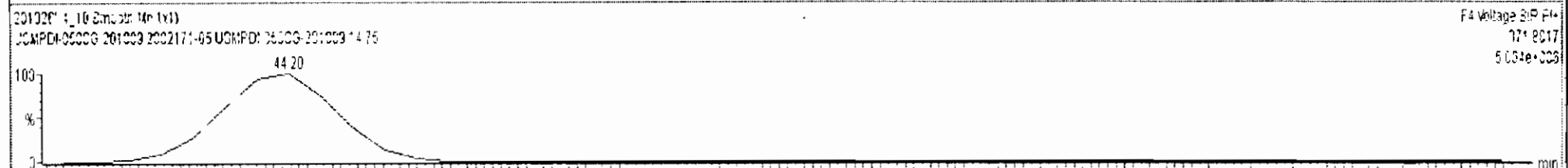
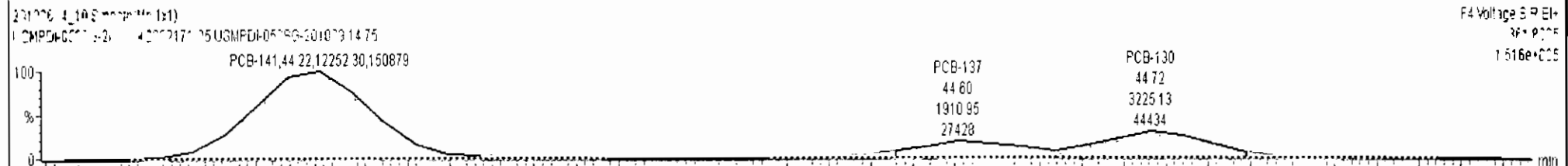




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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7
232	232 4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1204		8.55	1205
233	233 Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1002		7.10	1013
234	234 4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	154.7		2.16	186.1

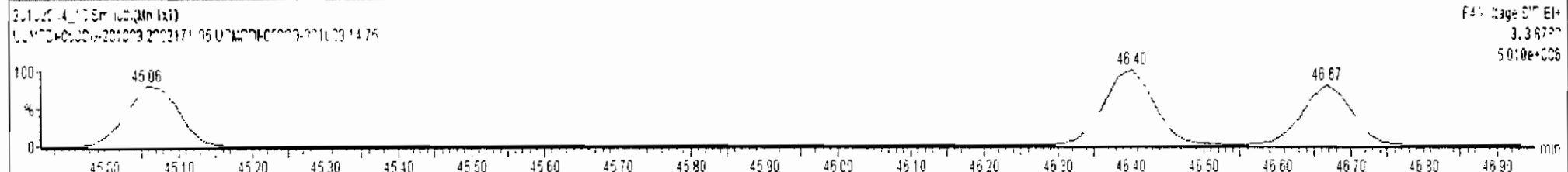
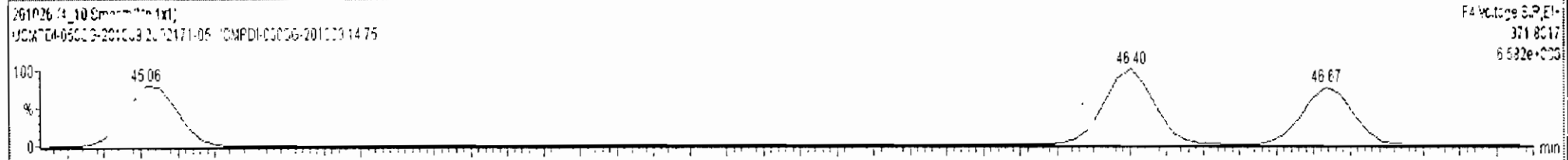
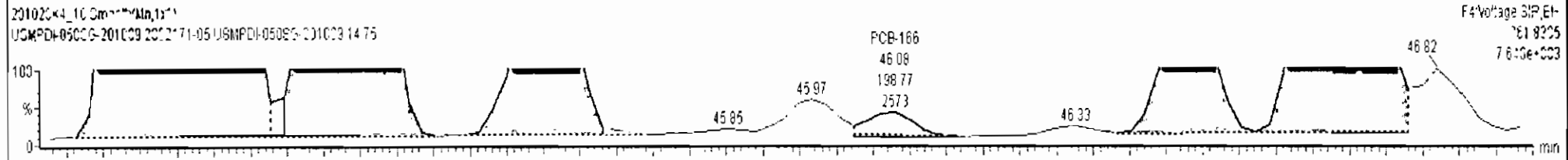
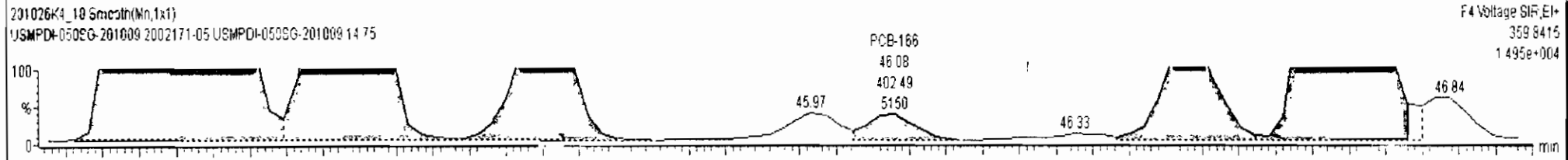
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
6	118 PCB-141	44.22	44.22	1.449e4	1.225e4	1.240	1.18	NO	71.057	71.057
7	119 PCB-137	44.62	44.62	2.701e3	1.911e3	1.240	1.41	NO	11.332	11.332
8	120 PCB-130	44.71	44.72	4.188e3	3.225e3	1.240	1.30	NO	22.844	22.844
9	121 PCB-138/163/164	45.09	45.10	1.023e5	8.211e4	1.240	1.25	NO	373.77	373.77



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	PRT Fail	Conc	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7
232	4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1204		8.55	1204
233	Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1002		7.10	1013
234	4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	164.7		2.16	186.1

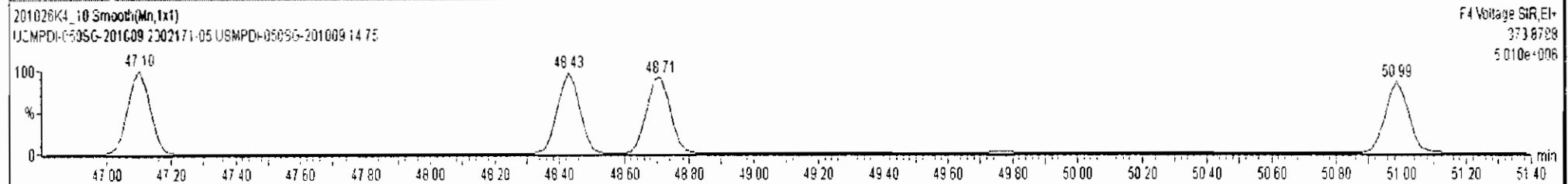
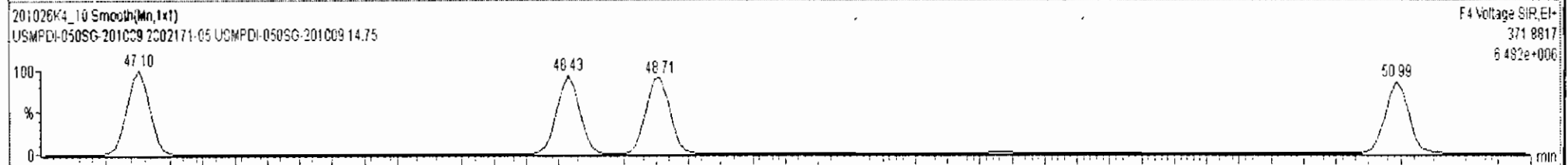
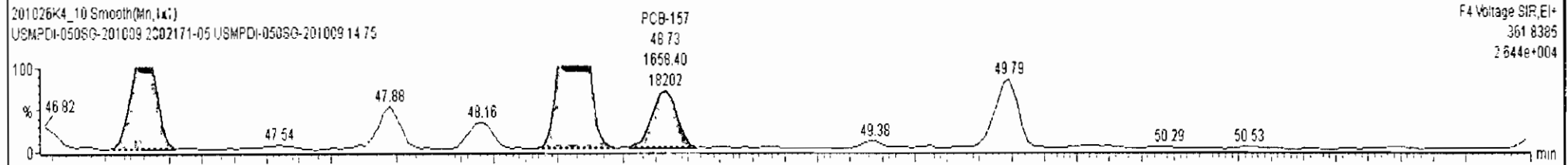
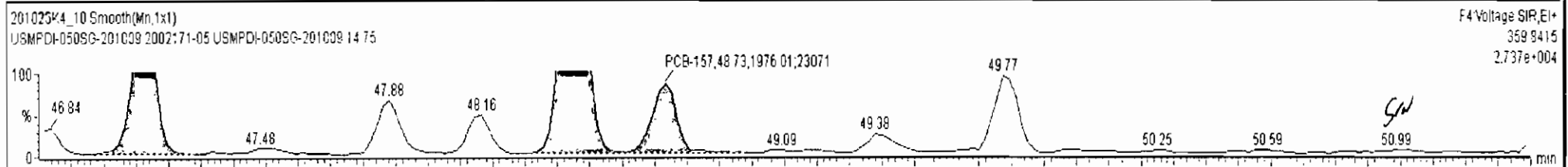
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
9	121 PCB-138/163/164	45.09	45.09	1.023e5	8.218e4	1.240	1.24	NO	373.95	373.95
10	122 PCB-158/160	45.36	45.34	1.010e4	6.007e3	1.240	1.26	NO	37.992	37.992
11	123 PCB-129	45.59	45.61	2.508e3	2.054e3	1.240	1.22	NO	13.698	13.698
12	124 PCB-166	46.08	46.08	4.025e2	1.988e2	1.240	2.02	YES	0.82663	0.00000
13	125 PCB-159	46.43	46.48	1.746e3	1.250e3	1.240	1.40	NO	5.2250	5.2250
14	126 PCB-126/162	46.71	46.69	1.294e4	9.898e3	1.240	1.31	NO	53.416	53.416



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R..	RRT	RRT Fail	Conc	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7
232	232 4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1.203		8.55	1204
233	233 Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1002		7.10	1013
234	234 4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	164.7		2.16	185.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
14	126 PCB-126/162	46.71	46.69	1.294e4	9.898e3	1.240	1.31	NO	53.416	53.416
15	127 PCB-167	47.12	47.12	3.681e3	2.934e3	1.240	1.32	NO	13.176	13.176
16	128 PCB-156	48.45	48.45	9.018e3	7.253e3	1.240	1.24	NO	32.311	32.311
17	129 PCB-157	48.73	48.73	1.976e3	1.658e3	1.240	1.19	NO	7.7868	7.7868



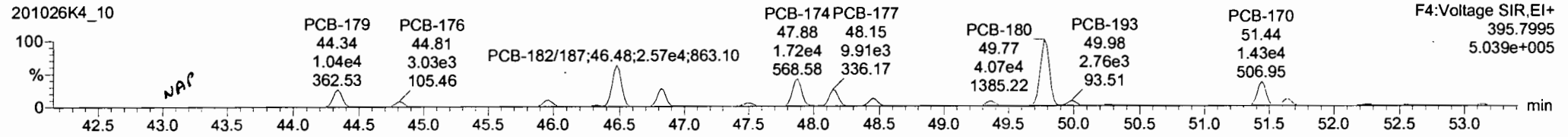
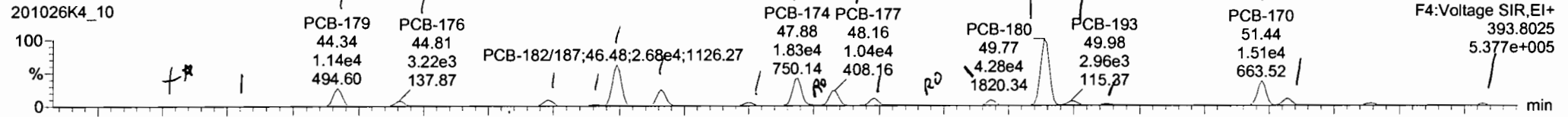
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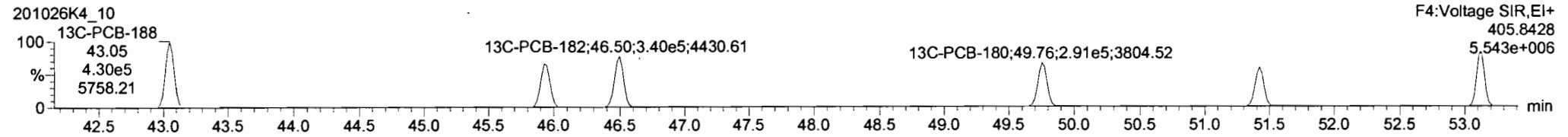
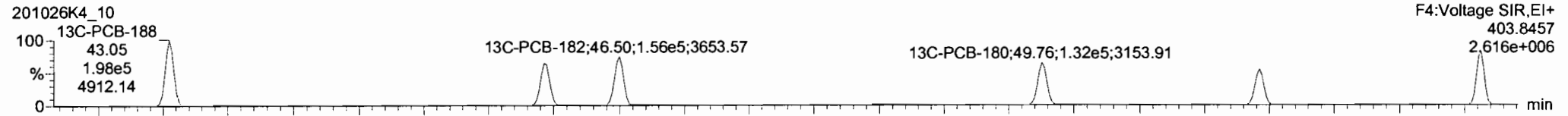
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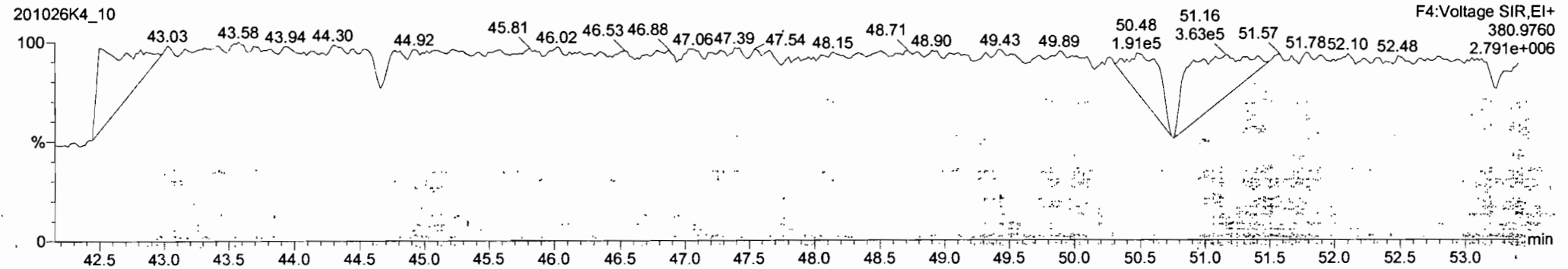
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**13C-PCB-188**



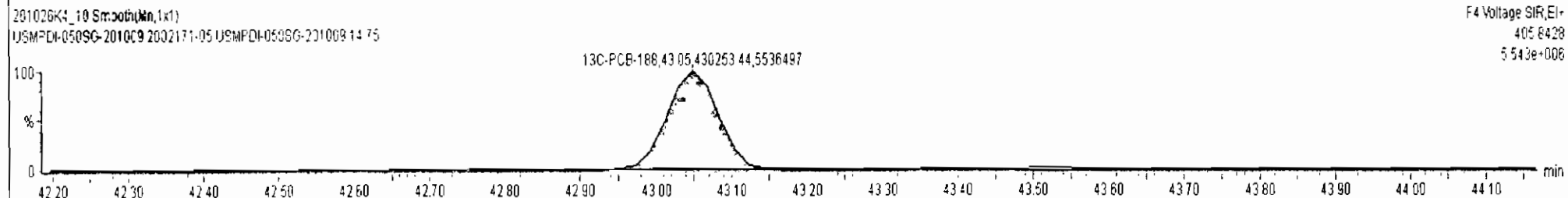
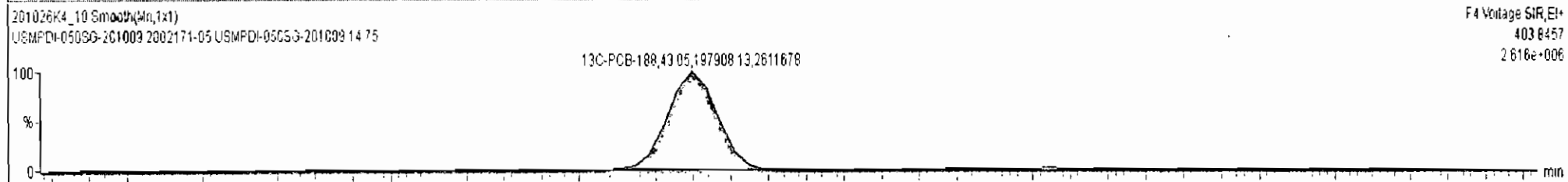
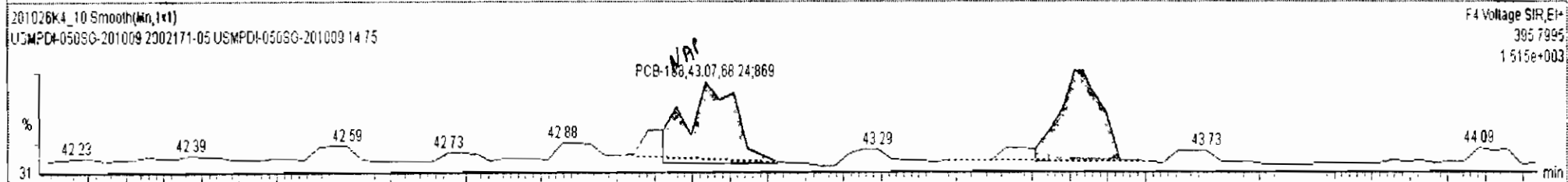
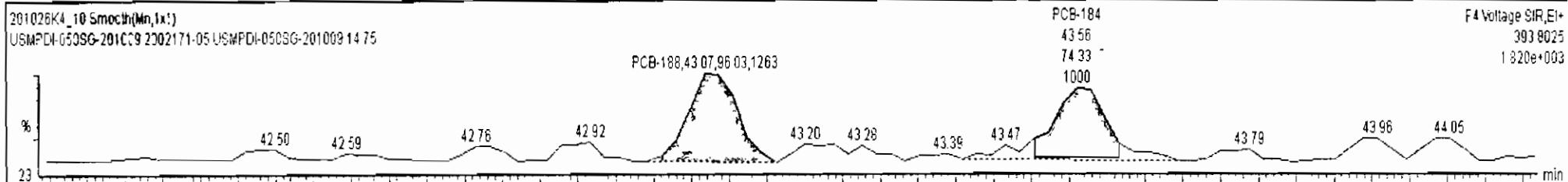
**PFK4c**



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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	496.5		3.03	510.7
232	232 4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1203		8.55	1204
233	233 Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1003		7.10	1012
234	234 4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	154.7		2.16	185.1

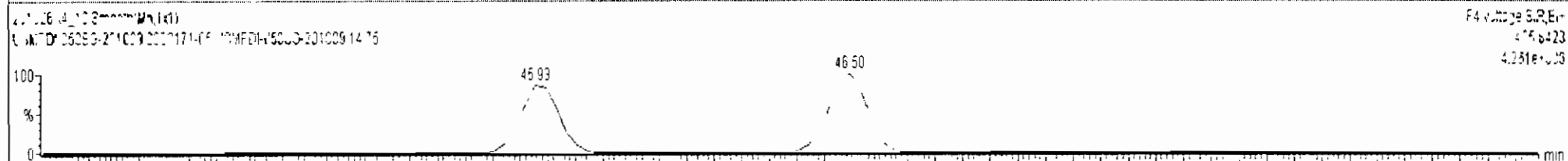
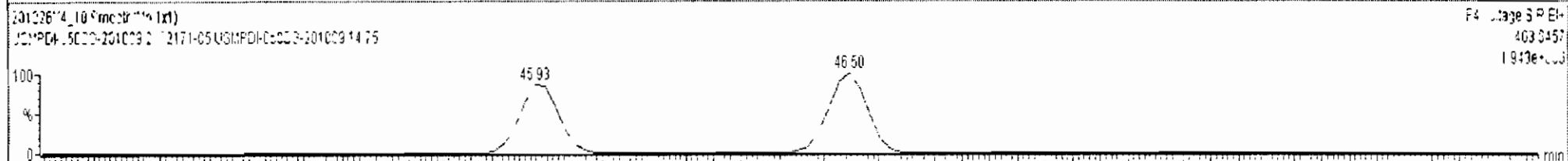
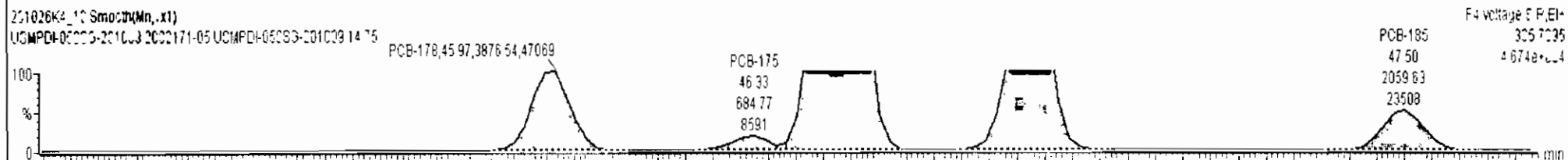
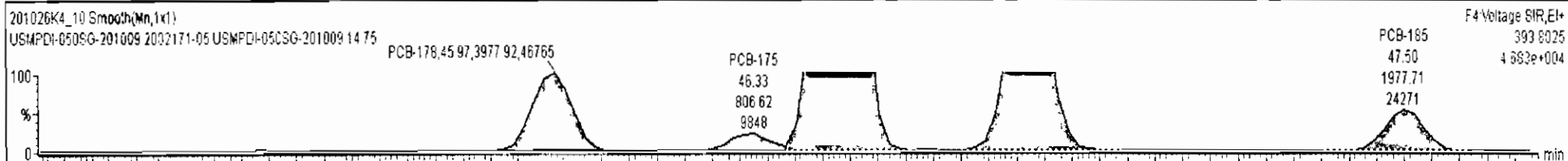
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-188	43.09	43.07	5.603e1	6.824e1	1.050	1.41	YES	0.33877	0.00000
2	132 PCB-184	43.54	43.56	7.433e1	6.392e1	1.050	1.16	NO	0.35056	0.35056



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#	Name	Resp	RA	n/y	RPF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7
232	4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1203		8.55	1204
233	Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1007		7.10	1013
234	4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	154.7		2.16	186.1

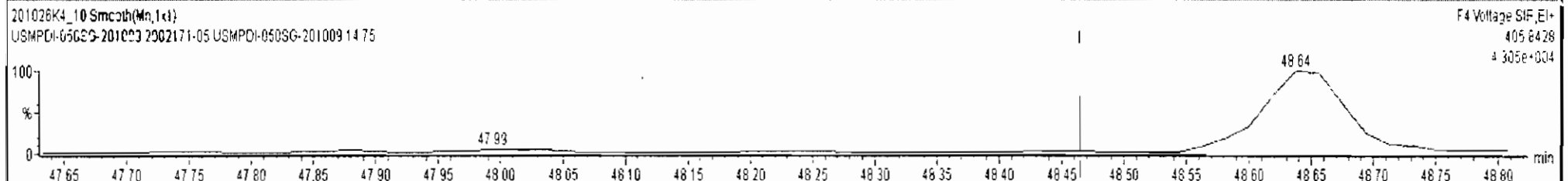
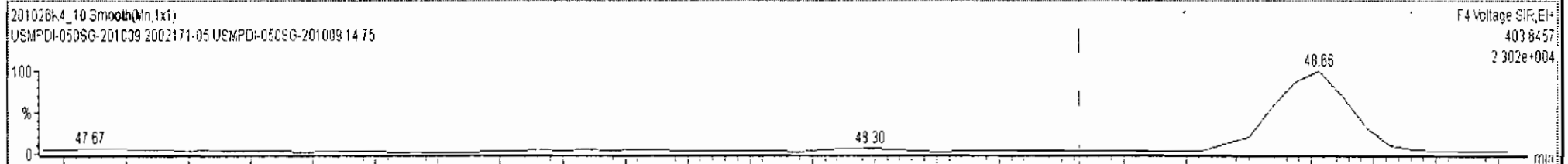
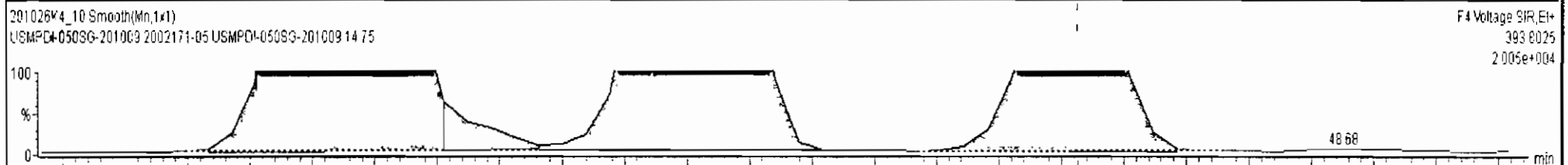
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
4	136 PCB-178	45.97	45.97	3.978e3	3.877e3	1.050	1.03	NO	26.006	26.006
5	137 PCB-175	46.33	46.33	8.066e2	6.848e2	1.050	1.18	NO	4.8708	4.8708
6	138 PCB-182/187	46.50	46.48	2.678e4	2.566e4	1.050	1.04	NO	153.61	153.61
7	139 PCB-183	46.82	46.82	1.052e4	1.042e4	1.050	1.01	NO	63.910	63.910
8	140 PCB-185	47.50	47.50	1.978e3	2.060e3	1.050	0.96	NO	13.295	13.295



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#	Name	Resp	RA	n/y	RRF	wtVol	PredRT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7
232	4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1203		8.55	1204
233	Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1009		7.10	1013
234	4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	164.7		2.15	188.1

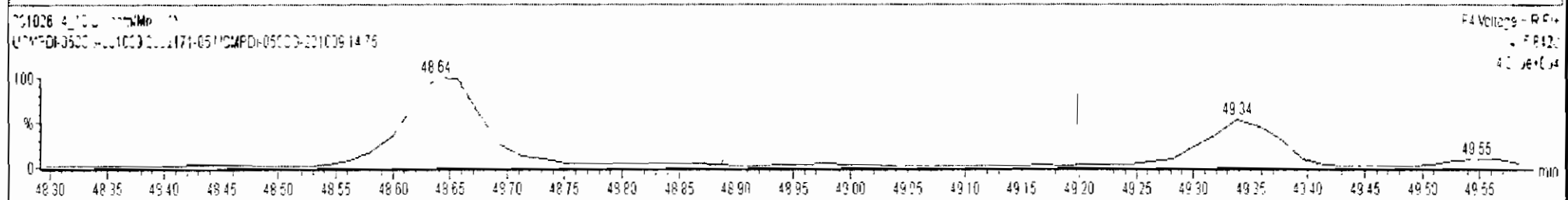
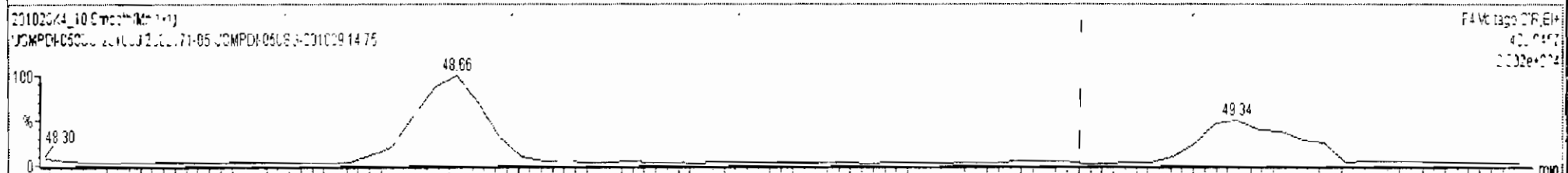
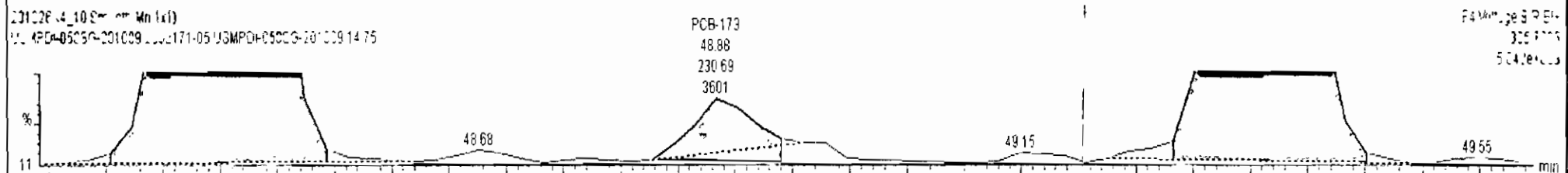
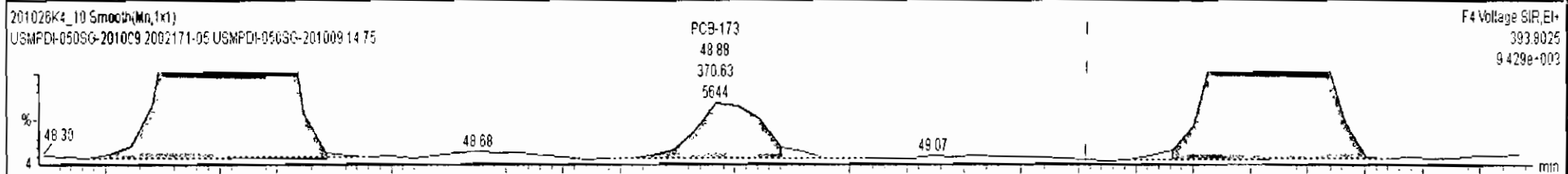
#	Name	PredRT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
9	141 PCB-174	47.87	47.88	1.791e4	1.689e4	1.050	1.06	NO	119.02	119.02
10	142 PCB-181	47.98	47.96	4.294e2	2.999e2	1.050	1.43	YES	1.9298	0.00000
11	143 PCB-177	48.16	48.16	1.035e4	9.911e3	1.050	1.04	NO	73.403	73.403
12	144 PCB-171	48.47	48.47	4.480e3	4.447e3	1.050	1.01	NO	31.395	31.395



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#	Name	Resp	RA	n/y	RRF	wVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7
232	4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1203		8.55	1204
233	Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1007		7.10	1013
234	4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	164.7		216	186.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
11	144 PCB-171	48.47	48.47	4.480e3	4.447e3	1.050	1.01	NO	31.395	31.395
12	145 PCB-173	48.89	48.88	3.706e2	2.307e2	1.050	1.61	YES	1.8387	0.00000
13	146 PCB-172	49.36	49.36	3.149e3	2.701e3	1.050	1.17	NO	19.690	19.690
14	148 PCB-180	49.77	49.77	4.278e4	4.070e4	1.050	1.06	NO	273.73	273.73

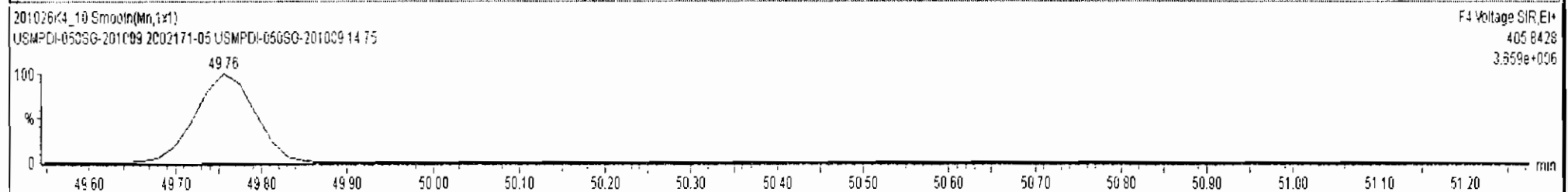
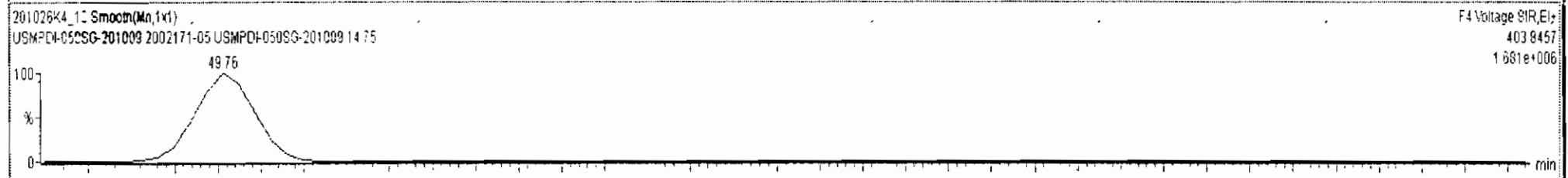
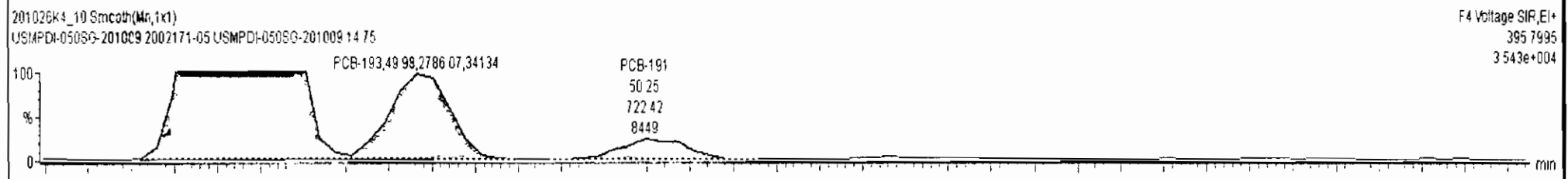
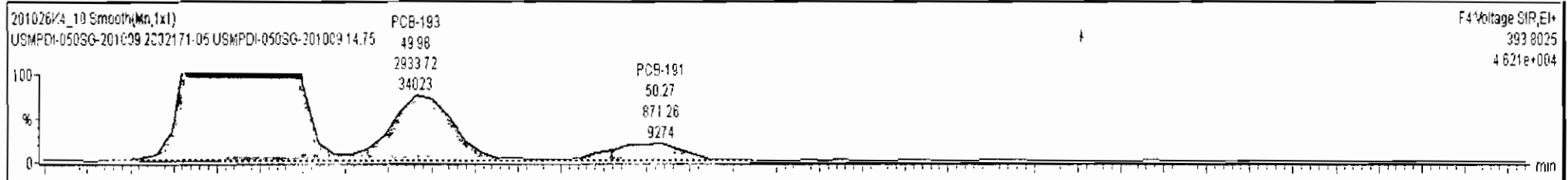




201026K4\_10 - 2002171-05 USMPDI-050SG-201009 14.75 - USMPDI-050SG-201009

#	Name	Resp.	RA	n/y	RF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7
232	4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1203		8.55	1204
233	Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1012		7.10	1014
234	4th Function Octa-PCBs				1.0028	5.097	0.00		0.000		NO	164.7		2.16	185.1

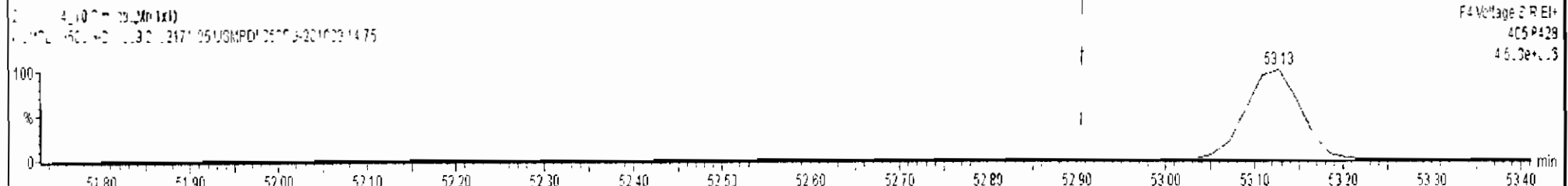
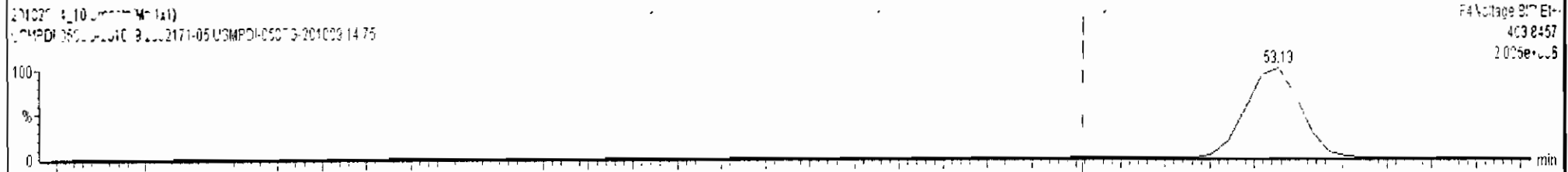
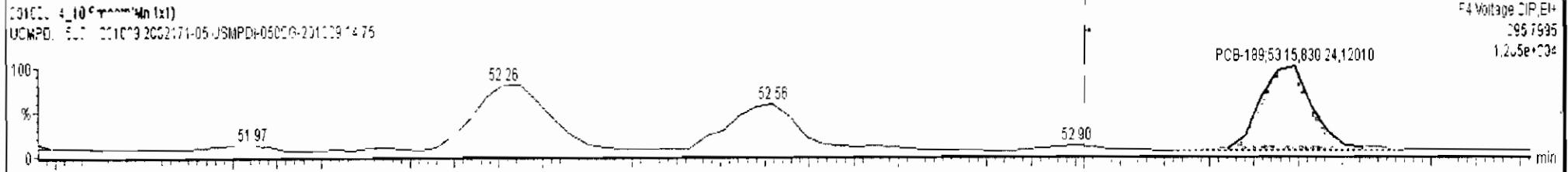
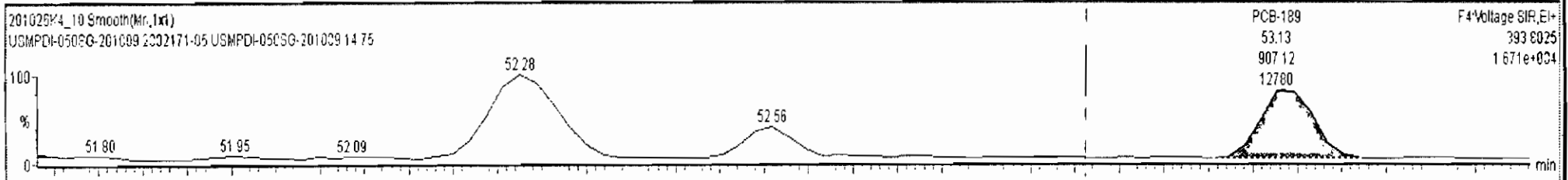
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc. *
14	148 PCB-180	49.77	49.77	4.277e4	4.080e4	1.050	1.05	NO	274.03	274.03
15	149 PCB-193	49.99	49.98	2.934e3	2.786e3	1.050	1.05	NO	15.790	15.790
16	150 PCB-191	50.25	50.27	8.713e2	7.224e2	1.050	1.21	NO	4.3136	4.3136
17	151 PCB-170	51.44	51.44	1.510e4	1.476e4	1.000	1.00	NO	113.12	113.12



201026K4\_10 - 2002171-05 USMPDI-050SG-201009 14 75 - USMPDI-050SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
231	231 3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	496.5		3.03	510.7
232	232 4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1203		8.55	1204
233	233 Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1012		7.10	1013
234	234 4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	164.7		2.16	166.1

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
17	151 PCB-170	51.44	51.44	1.510e4	1.426e4	1.050	1.06	NO	113.13	113.13
18	152 PCB-190	51.65	51.63	4.261e3	3.902e3	1.050	1.09	NO	23.801	23.801
19	153 PCB-189	53.15	53.13	9.071e2	8.302e2	1.050	1.09	NO	4.9522	4.9522

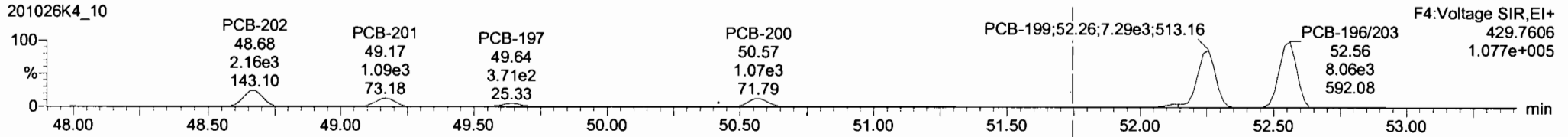
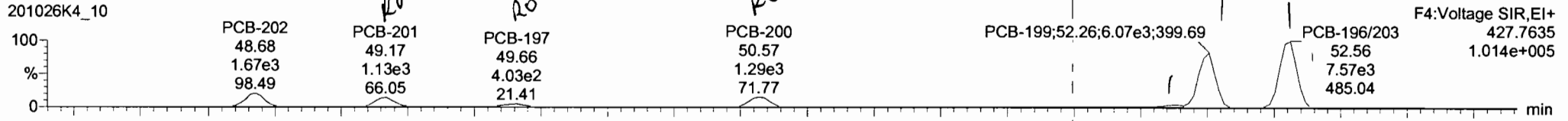


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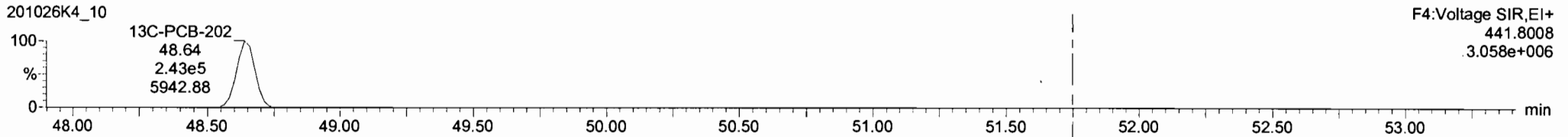
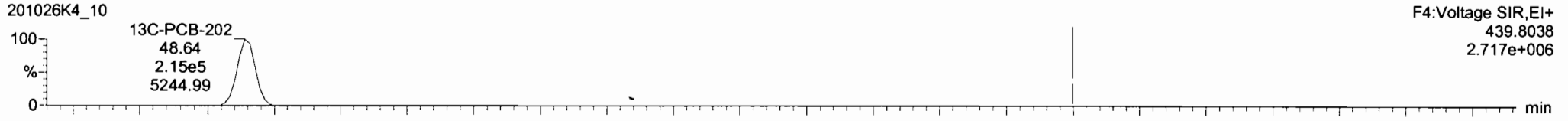
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Printed: Wednesday, October 28, 2020 13:33:32 Pacific Daylight Time

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

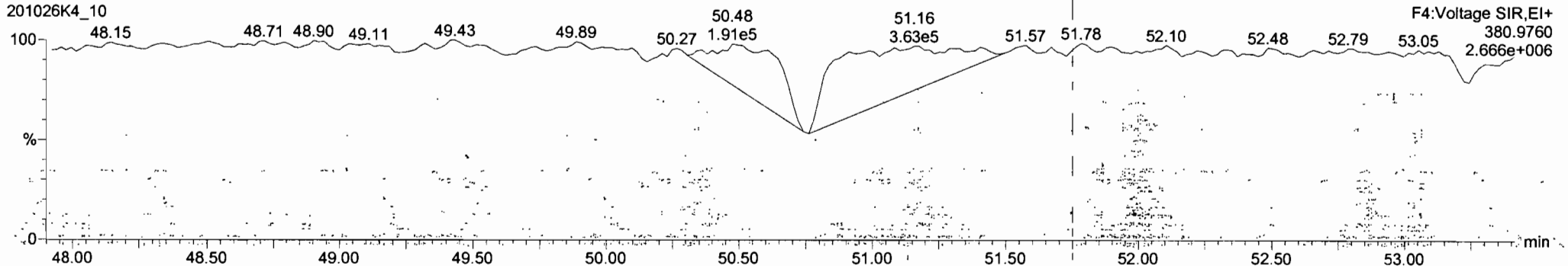
**PCB-202**



**13C-PCB-202**



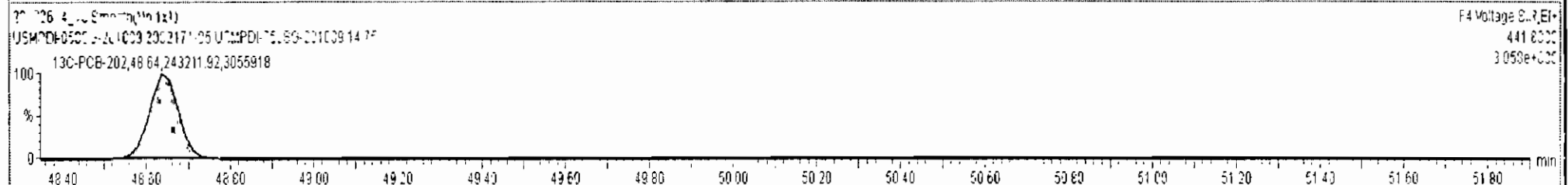
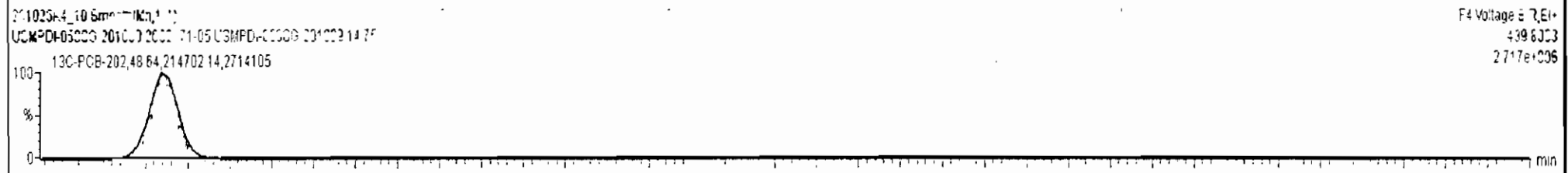
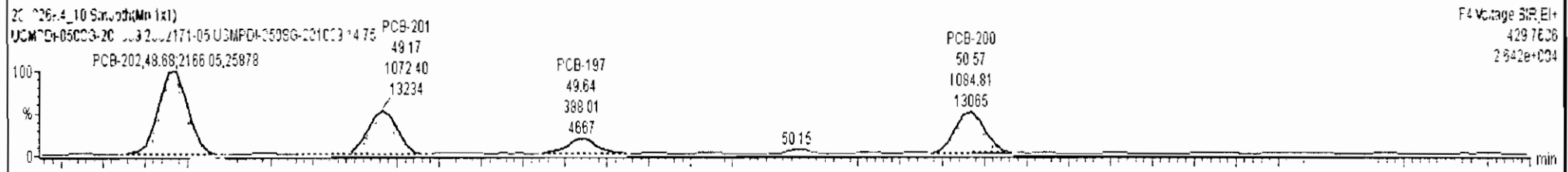
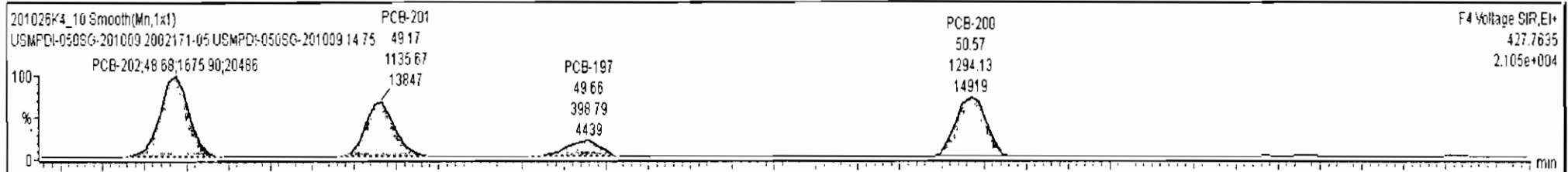
**PFK4d**

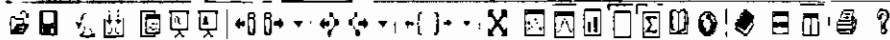


201026K4\_10 - 2002171-05 USMPDI-050SG-201009 14 75 - USMPDI-050SG-201009

#	Name	Resp	RA	n/y	RF	wtVol	Pred.RT	RT	Pred.R	RRT	PRT Fail	Conc	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7
232	4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1203		8.55	1204
233	Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1809		7.10	1013
234	4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	164.7		2.16	186.3

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc
1	154 PCB-202	48.68	48.68	1.676e3	2.166e3	0.890	0.77	NO	14.089	14.089
2	155 PCB-201	49.15	49.17	1.136e3	1.072e2	0.890	1.06	YES	8.2461	0.00000
3	157 PCB-197	49.62	49.66	3.983e2	3.680e2	0.890	1.03	YES	2.7739	0.00000
4	158 PCB-200	50.55	50.57	1.294e3	1.065e3	0.890	1.19	YES	8.2067	0.00000

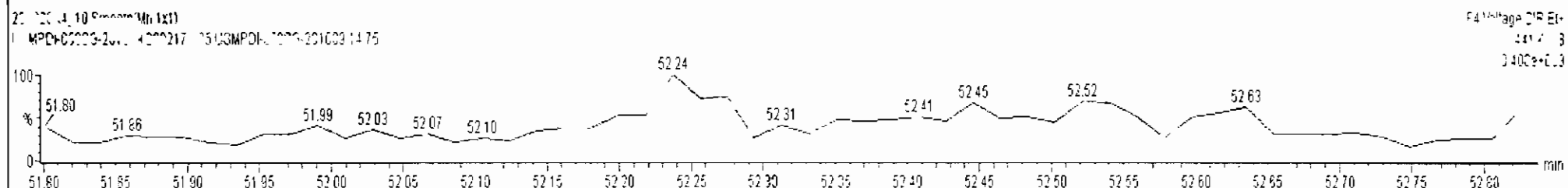
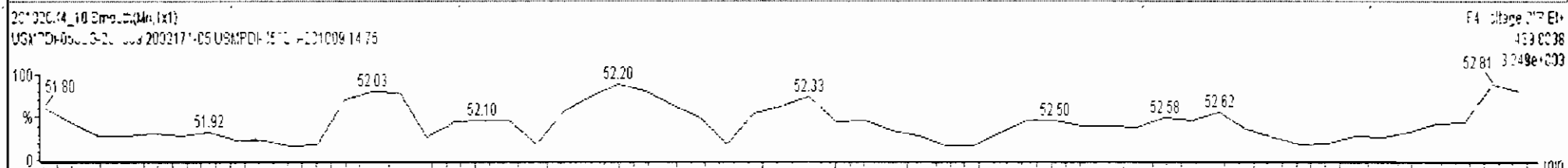
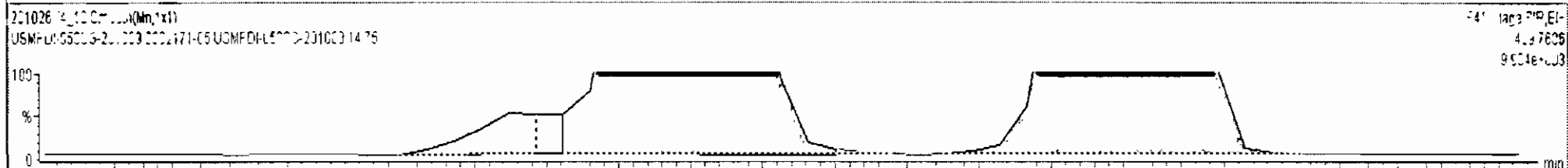
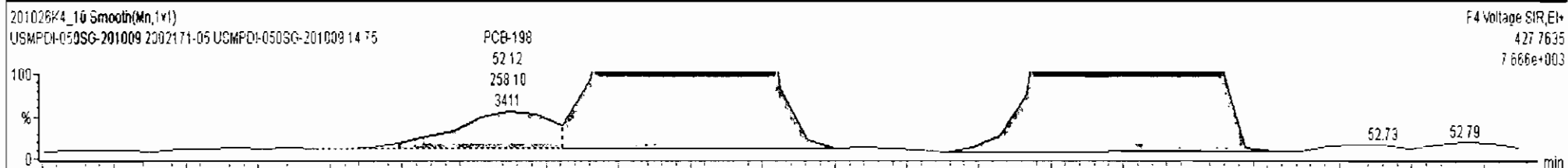




201026K4\_10 - 2002171-05 USMPDI-050SG-201009 14.75 - USMPDI-050SG-201009

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
231	3rd Function Hexa-PCBs				0.9505	5.097	0.00		0.000		NO	486.5		3.03	510.7
232	4th Function Hexa-PCBs				1.0316	5.097	0.00		0.000		NO	1203		8.55	1204
233	Total Hepta-PCBs				1.3551	5.097	0.00		0.000		NO	1009		7.10	1013
234	4th Function Octa-PCBs				1.0008	5.097	0.00		0.000		NO	167.3		2.16	186.5

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
4	158 PCB-200	50.55	50.57	1.294e3	1.085e3	0.890	1.19	YES	8.2067	0.00000
5	159 PCB-198	52.10	52.12	2.581e2	3.167e2	0.890	0.81	NO	3.1022	3.1022
6	160 PCB-199	52.24	52.26	6.073e3	7.193e3	0.890	0.84	NO	70.229	70.229
7	161 PCB-196/203	52.53	52.56	7.574e3	8.057e3	0.890	0.94	NO	79.890	79.890

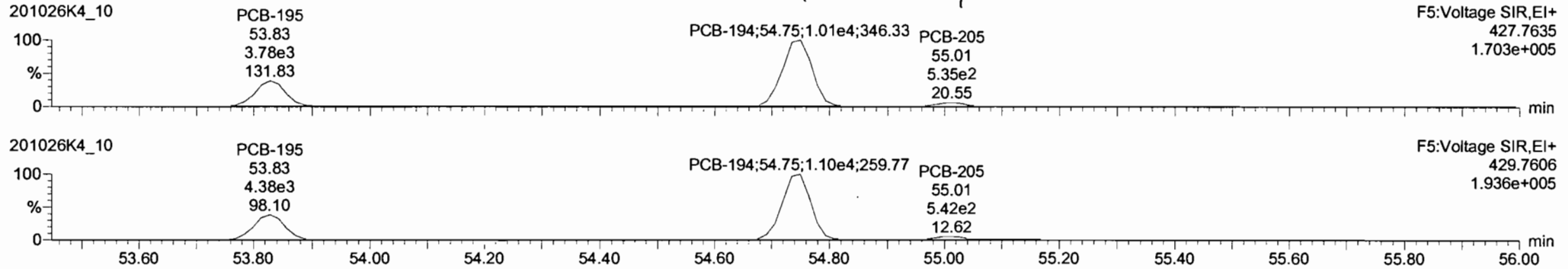


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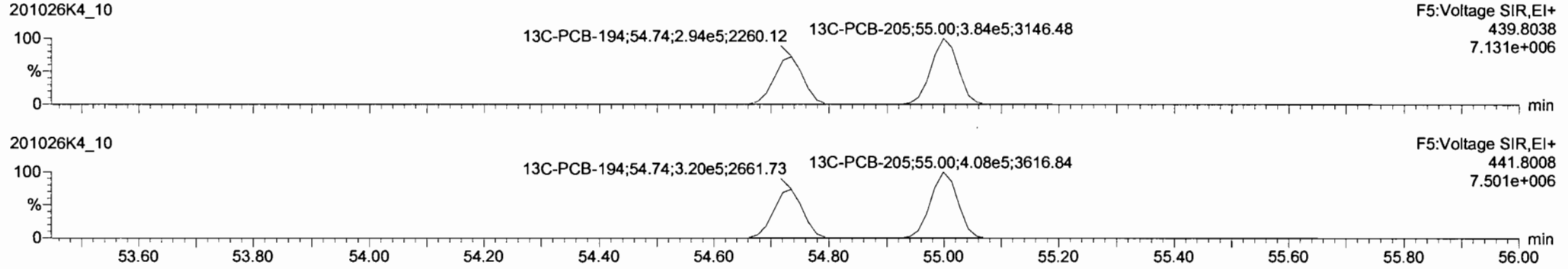
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Printed: Wednesday, October 28, 2020 13:33:32 Pacific Daylight Time

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

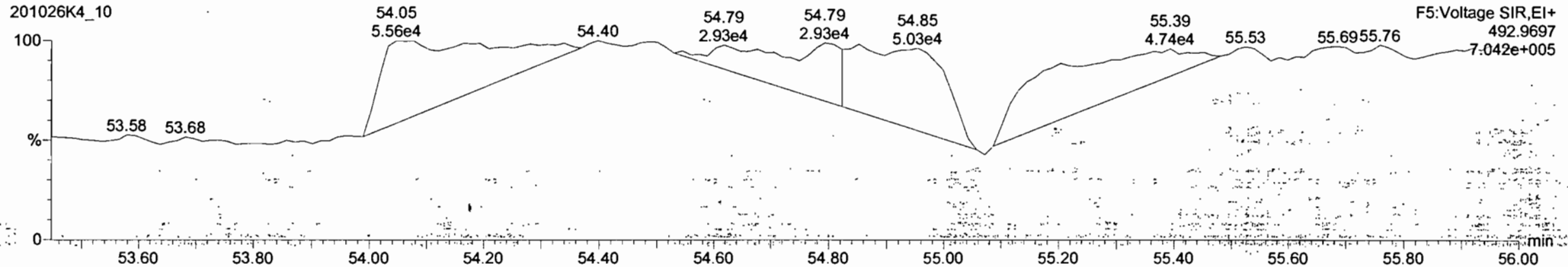
**PCB-195**



**13C-PCB-194**



**PFK5a**

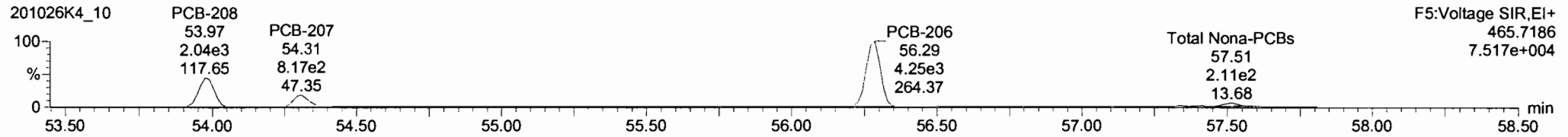
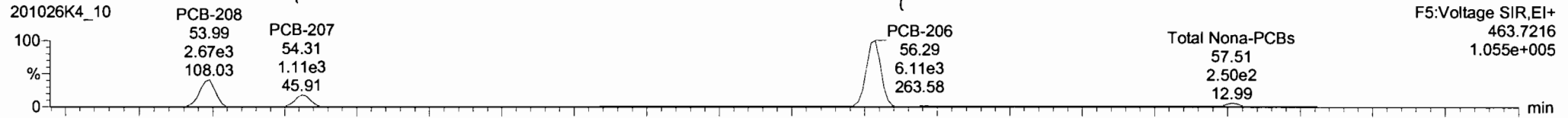


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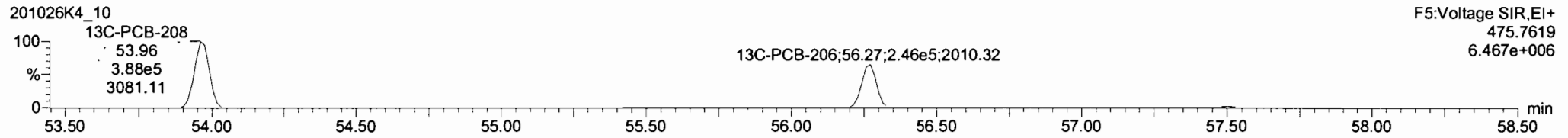
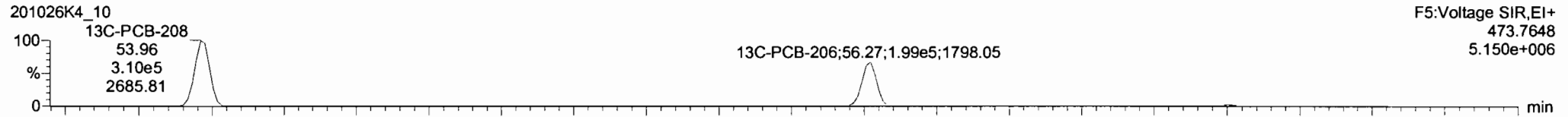
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Printed: Wednesday, October 28, 2020 13:33:32 Pacific Daylight Time

Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

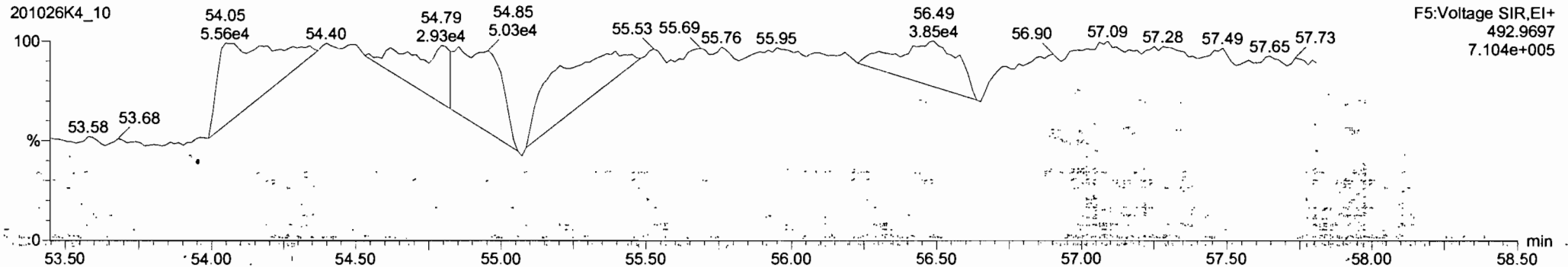
**PCB-208**



**13C-PCB-208**



**PFK5**



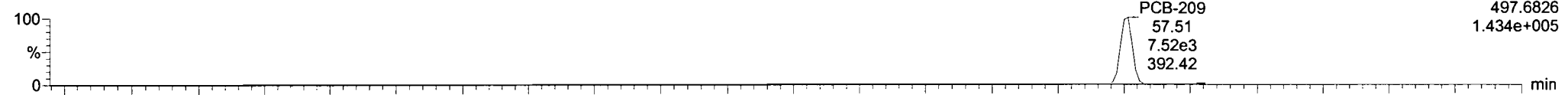
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Last Altered: Wednesday, October 28, 2020 13:31:23 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 13:33:32 Pacific Daylight Time

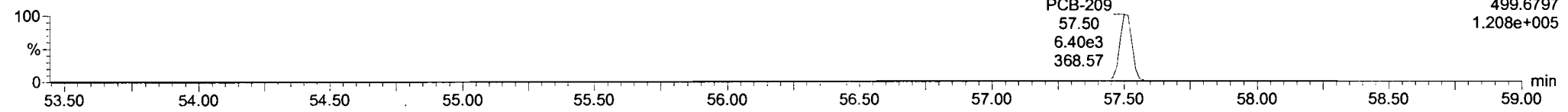
Name: 201026K4\_10, Date: 28-Oct-2020, Time: 09:17:07, ID: 2002171-05 USMPDI-050SG-201009 14.75, Description: USMPDI-050SG-201009

**PCB-209**

201026K4\_10

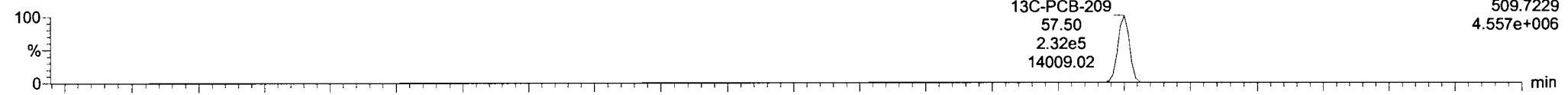


201026K4\_10

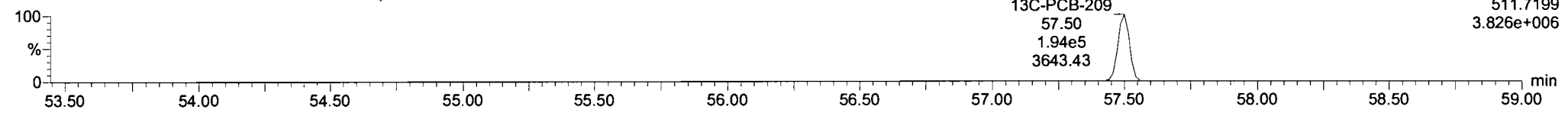


**13C-PCB-209**

201026K4\_10

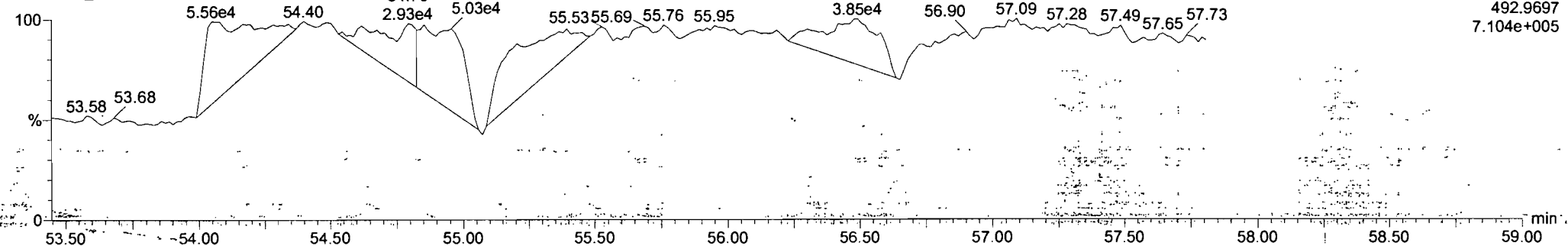


201026K4\_10



**PFK5b**

201026K4\_10





Dataset: U:\VG11.PRO\Results\201026K3\201026K3-12.qld

Last Altered: Thursday, November 12, 2020 16:18:55 Pacific Standard Time

Printed: Thursday, November 12, 2020 16:22:34 Pacific Standard Time

*ly 11/12/2020*

*CT 11/13/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	1.02e3	3.45	NO	1.17	5.031	15.60	15.60	1.001	1.001	NO	1.743		0.292	1.743
2	2 PCB-2	2.17e3	2.86	NO	1.18	5.031	18.02	18.01	0.988	0.987	NO	3.328		0.274	3.328
3	3 PCB-3	1.43e3	2.74	NO	1.15	5.031	18.25	18.26	1.001	1.001	NO	2.264		0.282	2.264
4	4 PCB-4/10	3.29e3	1.46	NO	1.25	5.031	19.66	19.61	1.004	1.002	NO	5.305		0.656	5.305
5	5 PCB-7/9			NO	0.960	5.031	21.47		1.003		YES			0.515	
6	6 PCB-6			NO	1.02	5.031	22.12		1.033		YES			0.483	
7	7 PCB-5/8	9.11e3	1.38	NO	0.992	5.031	22.53	22.52	1.052	1.052	NO	10.82		0.498	10.82
8	8 PCB-14			NO	1.02	5.031	23.66		0.951		YES			0.483	
9	9 PCB-11	1.01e4	1.49	NO	1.13	5.031	24.89	24.89	1.001	1.001	NO	10.07		0.437	10.07
10	10 PCB-12/13			NO	1.03	5.031	25.32		1.018		YES			0.479	
11	11 PCB-15	8.13e3	1.66	NO	1.03	5.031	25.61	25.61	1.030	1.030	NO	8.868		0.475	8.868
12	12 PCB-19	1.30e3	1.17	NO	1.11	5.031	23.86	23.85	1.001	1.001	NO	3.415		0.546	3.415
13	13 PCB-30			NO	1.79	5.031	24.76		1.039		YES			0.337	
14	14 PCB-18	4.69e3	1.14	NO	0.818	5.031	25.53	25.52	0.952	0.952	NO	10.60		0.475	10.60
15	15 PCB-17	2.33e3	1.18	NO	0.758	5.031	25.71	25.70	0.959	0.958	NO	5.682		0.512	5.682
16	16 PCB-24/27	8.99e2	1.25	YES	1.08	5.031	26.31	26.29	0.981	0.980	NO	1.538		0.389	1.396
17	17 PCB-16/32	4.66e3	1.17	NO	0.925	5.031	26.84	26.84	1.001	1.001	NO	9.315		0.419	9.315
18	18 PCB-34			NO	0.945	5.031	27.64		0.959		YES			0.434	
19	19 PCB-23			NO	0.883	5.031	27.73		0.962		YES			0.465	
20	20 PCB-29			NO	0.893	5.031	27.99		0.971		YES			0.460	
21	21 PCB-26	3.46e3	1.19	NO	0.944	5.031	28.22	28.22	0.979	0.979	NO	3.857		0.435	3.857
22	22 PCB-25	2.01e3	1.08	NO	0.950	5.031	28.37	28.39	0.984	0.985	NO	2.221		0.432	2.221
23	23 PCB-31	1.40e4	1.08	NO	1.04	5.031	28.75	28.76	0.997	0.997	NO	14.19		0.396	14.19
24	24 PCB-28	1.81e4	1.05	NO	1.03	5.031	28.85	28.85	1.001	1.001	NO	18.58		0.400	18.58
25	25 PCB-20/21/33	9.68e3	1.02	NO	0.941	5.031	29.49	29.52	1.023	1.024	NO	10.81		0.436	10.81
26	26 PCB-22	6.01e3	1.07	NO	0.973	5.031	29.93	29.95	1.038	1.039	NO	6.494		0.422	6.494
27	27 PCB-36			NO	1.08	5.031	30.60		0.931		YES			0.399	
28	28 PCB-39			NO	0.988	5.031	31.10		0.947		YES			0.434	
29	29 PCB-38			NO	1.05	5.031	31.88		0.970		YES			0.408	
30	30 PCB-35			NO	1.04	5.031	32.43		0.987		YES			0.411	

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-12.qld

Last Altered: Thursday, November 12, 2020 16:18:55 Pacific Standard Time

Printed: Thursday, November 12, 2020 16:22:34 Pacific Standard Time

Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 PCB-37	6.51e3	1.20	NO	1.01	5.031	32.87	32.87	1.001	1.001	NO	7.186		0.425	7.186
32	32 PCB-54	3.90e2	1.27	YES	1.08	5.031	27.68	27.72	1.001	1.002	NO	0.7175		0.226	0.5603
33	33 PCB-50			NO	0.880	5.031	28.89		1.044		YES			0.278	
34	34 PCB-53	1.87e3	0.88	NO	0.997	5.031	29.56	29.58	0.944	0.944	NO	4.184		0.271	4.184
35	35 PCB-51	9.71e2	0.83	NO	1.07	5.031	29.92	29.93	0.955	0.955	NO	2.037		0.254	2.037
36	36 PCB-45	1.31e3	1.04	YES	0.858	5.031	30.36	30.36	0.969	0.969	NO	3.403		0.315	2.958
37	37 PCB-46	6.25e2	1.00	YES	0.831	5.031	30.86	30.86	0.985	0.985	NO	1.679		0.325	1.488
38	38 PCB-52/69	1.29e4	0.87	NO	1.17	5.031	31.36	31.36	1.001	1.001	NO	24.70		0.232	24.70
39	39 PCB-73			NO	1.44	5.031	31.48		1.005		YES			0.187	
40	40 PCB-43/49	8.05e3	0.80	NO	1.02	5.031	31.65	31.68	1.010	1.011	NO	17.69		0.266	17.69
41	41 PCB-47	4.06e3	0.74	NO	0.922	5.031	31.88	31.88	1.001	1.001	NO	9.315		0.286	9.315
42	42 PCB-48/75	2.22e3	0.90	YES	1.12	5.031	32.00	32.01	1.004	1.005	NO	4.181		0.286	3.904
43	43 PCB-65			NO	1.28	5.031	32.28		1.013		YES			0.206	
44	44 PCB-62			NO	1.13	5.031	32.37		1.016		YES			0.234	
45	45 PCB-44	8.20e3	0.81	NO	0.824	5.031	32.70	32.70	1.026	1.026	NO	21.04		0.320	21.04
46	46 PCB-42/59	3.58e3	0.83	NO	1.05	5.031	32.93	32.94	1.033	1.034	NO	7.218		0.252	7.218
47	47 PCB-41/64/71/72	1.04e4	0.67	NO	1.19	5.031	33.54	33.54	1.053	1.053	NO	18.55		0.222	18.55
48	48 PCB-68	2.91e2	0.86	NO	1.28	5.031	33.80	33.76	1.061	1.060	NO	0.4815		0.207	0.4815
49	49 PCB-40	1.40e3	0.99	YES	0.602	5.031	34.02	34.01	1.067	1.067	NO	4.921		0.459	4.373
50	50 PCB-57	2.62e2	0.71	NO	1.16	5.031	34.38	34.38	0.969	0.969	NO	0.3854		0.176	0.3854
51	51 PCB-67	4.65e2	0.65	YES	1.08	5.031	34.69	34.73	0.978	0.979	NO	0.7331		0.189	0.6609
52	52 PCB-58			NO	1.20	5.031	34.82		0.982		YES			0.170	
53	53 PCB-63	7.31e2	1.30	YES	1.07	5.031	34.97	34.99	0.986	0.986	NO	1.106		0.181	0.8984
54	54 PCB-74	6.41e3	0.84	NO	1.19	5.031	35.28	35.29	0.994	0.995	NO	9.245		0.173	9.245
55	55 PCB-61/70	1.53e4	0.78	NO	1.05	5.031	35.49	35.49	1.000	1.001	NO	24.75		0.194	24.75
56	56 PCB-76/66	1.36e4	0.76	NO	1.16	5.031	35.68	35.72	1.006	1.007	NO	19.95		0.176	19.95
57	57 PCB-80			NO	1.19	5.031	35.95		1.001		YES			0.162	
58	58 PCB-55	3.60e2	0.59	YES	1.17	5.031	36.28	36.22	1.010	1.008	NO	0.5059		0.184	0.4324
59	59 PCB-56/60	9.13e3	0.87	NO	1.02	5.031	36.77	36.76	1.024	1.023	NO	14.74		0.189	14.74
60	60 PCB-79	5.73e2	0.87	NO	1.14	5.031	37.90	37.89	1.055	1.055	NO	0.8267		0.169	0.8267
61	61 PCB-78			NO	1.14	5.031	38.60		0.987		YES			0.181	
62	62 PCB-81	1.37e2	1.21	YES	1.05	5.031	39.14	39.16	1.000	1.001	NO	0.2147		0.167	0.1717
63	63 PCB-77	1.46e3	0.88	NO	1.14	5.031	39.76	39.76	1.000	1.000	NO	2.143		0.179	2.143

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
64	64 PCB-104			NO	1.12	5.031	32.55		1.001		YES			0.366	
65	65 PCB-96			NO	1.15	5.031	33.86		1.041		YES			0.356	
66	66 PCB-103	3.37e2	1.36	NO	0.936	5.031	34.41	34.40	1.058	1.057	NO	1.096		0.439	1.096
67	67 PCB-100			NO	0.954	5.031	34.79		1.069		YES			0.431	
68	68 PCB-94			NO	0.949	5.031	35.27		0.985		YES			0.540	
69	69 PCB-95/98/102	1.27e4	1.74	NO	1.20	5.031	35.74	35.81	0.999	1.001	NO	37.93		0.425	37.93
70	70 PCB-93	4.22e2	1.86	YES	0.935	5.031	35.89	35.87	1.003	1.002	NO	1.625		0.548	1.456
71	71 PCB-88/91	2.25e3	1.56	NO	1.06	5.031	36.22	36.22	1.012	1.012	NO	7.603		0.481	7.603
72	72 PCB-121			NO	1.71	5.031	36.33		1.015		YES			0.300	
73	73 PCB-84/92	6.78e3	1.51	NO	1.02	5.031	37.17	37.15	0.990	0.990	NO	23.75		0.498	23.75
74	74 PCB-89	1.83e2	1.74	NO	1.11	5.031	37.36	37.35	0.995	0.995	NO	0.5898		0.459	0.5898
75	75 PCB-90/101	1.76e4	1.60	NO	1.12	5.031	37.55	37.56	1.000	1.001	NO	56.02		0.452	56.02
76	76 PCB-113			NO	1.51	5.031	37.80		1.007		YES			0.335	
77	77 PCB-99	7.53e3	1.46	NO	1.32	5.031	37.90	37.89	1.010	1.009	NO	20.33		0.384	20.33
78	78 PCB-119	5.34e2	1.88	YES	1.81	5.031	38.38	38.36	0.987	0.987	NO	1.181		0.343	1.049
79	79 PCB-108/112	9.22e2	1.87	YES	1.44	5.031	38.53	38.53	0.991	0.991	NO	2.580		0.391	2.272
80	80 PCB-83			NO	1.83	5.031	38.71		0.996		YES			0.309	
81	81 PCB-97	4.36e3	1.40	NO	1.28	5.031	38.90	38.90	1.000	1.000	NO	13.58		0.441	13.58
82	82 PCB-86			NO	1.12	5.031	39.07		1.005		YES			0.506	
83	83 PCB-87/117/125	7.16e3	1.62	NO	1.56	5.031	39.19	39.20	1.008	1.008	NO	18.36		0.363	18.36
84	84 PCB-111/115	2.34e2	1.61	NO	1.91	5.031	39.35	39.33	1.012	1.011	NO	0.4884		0.296	0.4884
85	85 PCB-85/116	2.97e3	1.52	NO	1.41	5.031	39.47	39.46	1.015	1.015	NO	8.419		0.401	8.419
86	86 PCB-120			NO	2.01	5.031	39.74		1.022		YES			0.282	
87	87 PCB-110	2.60e4	1.55	NO	1.74	5.031	39.89	39.87	1.026	1.025	NO	59.57		0.325	59.57
88	88 PCB-82	1.56e3	1.64	NO	0.781	5.031	40.50	40.50	0.975	0.975	NO	5.750		0.501	5.750
89	89 PCB-124	8.78e2	1.58	NO	1.40	5.031	41.21	41.22	0.993	0.993	NO	1.806		0.280	1.806
90	90 PCB-107/109	1.58e3	1.63	NO	1.34	5.031	41.35	41.39	0.996	0.997	NO	3.393		0.292	3.393
91	91 PCB-123	3.60e2	0.86	YES	1.20	5.031	41.54	41.54	1.000	1.000	NO	0.8645		0.327	0.6545
92	92 PCB-106/118	1.78e4	1.57	NO	1.22	5.031	41.75	41.73	1.001	1.000	NO	40.43		0.318	40.43
93	93 PCB-114	5.95e2	1.68	NO	1.14	5.031	42.41	42.38	1.000	1.000	NO	0.7770		0.276	0.7770
94	94 PCB-122	3.90e2	1.76	NO	0.944	5.031	42.55	42.54	1.004	1.004	NO	0.6154		0.334	0.6154
95	95 PCB-105	1.18e4	1.52	NO	1.05	5.031	43.29	43.29	1.000	1.000	NO	16.37		0.293	16.37
96	96 PCB-127			NO	1.06	5.031	43.65		1.000		YES			0.283	

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	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
97	97 PCB-126	3.54e2	1.65	NO	1.17	5.031	45.61	45.61	1.000	1.000	NO	0.4724		0.285	0.4724
98	98 PCB-155			NO	1.04	5.031	37.07		1.000		YES			0.327	
99	99 PCB-150			NO	1.08	5.031	38.38		1.036		YES			0.315	
100	1... PCB-152			NO	1.19	5.031	38.86		1.049		YES			0.288	
101	1... PCB-145			NO	1.19	5.031	39.33		1.061		YES			0.288	
102	1... PCB-136	2.01e3	1.26	NO	1.02	5.031	39.66	39.66	1.070	1.070	NO	8.987		0.335	8.987
103	1... PCB-148			NO	0.842	5.031	39.76		1.073		YES			0.406	
104	1... PCB-154	2.00e2	0.87	YES	0.919	5.031	40.28	40.29	1.087	1.087	NO	0.9986		0.372	0.8384
105	1... PCB-151	2.68e3	1.51	YES	0.787	5.031	40.95	40.94	1.105	1.105	NO	15.60		0.455	13.95
106	1... PCB-135	1.85e3	1.22	NO	0.922	5.031	41.17	41.17	1.111	1.111	NO	9.193		0.371	9.193
107	1... PCB-144	5.06e2	0.72	YES	0.789	5.031	41.28	41.28	1.114	1.114	NO	2.932		0.433	2.211
108	1... PCB-147	2.88e2	1.15	NO	0.834	5.031	41.41	41.41	1.117	1.118	NO	1.578		0.410	1.578
109	1... PCB-139/149	1.05e4	1.40	NO	0.948	5.031	41.70	41.67	1.125	1.125	NO	50.57		0.361	50.57
110	1... PCB-140			NO	0.794	5.031	41.88		1.130		YES			0.431	
111	1... PCB-134/143	1.66e3	1.27	NO	0.759	5.031	42.33	42.35	0.974	0.975	NO	4.669		0.336	4.669
112	1... PCB-131/133	1.02e3	1.07	NO	0.821	5.031	42.65	42.63	0.982	0.981	NO	2.647		0.311	2.647
113	1... PCB-142			NO	0.754	5.031	42.81		0.985		YES			0.338	
114	1... PCB-146/165	5.14e3	1.21	NO	1.02	5.031	43.05	43.05	0.991	0.991	NO	10.82		0.251	10.82
115	1... PCB-132/161	1.01e4	1.27	NO	1.02	5.031	43.29	43.31	0.997	0.997	NO	21.19		0.249	21.19
116	1... PCB-153	3.16e4	1.27	NO	1.07	5.031	43.46	43.47	1.000	1.000	NO	63.13		0.238	63.13
117	1... PCB-168			NO	1.08	5.031	43.69		1.006		YES			0.237	
118	1... PCB-141	5.71e3	1.16	NO	1.03	5.031	44.22	44.22	1.000	1.000	NO	14.48		0.305	14.48
119	1... PCB-137	1.82e3	1.53	YES	1.11	5.031	44.62	44.62	1.009	1.009	NO	4.268		0.262	3.773
120	1... PCB-130	2.02e3	1.16	NO	0.885	5.031	44.71	44.72	1.012	1.012	NO	5.936		0.354	5.936
121	1... PCB-138/163/164	3.88e4	1.20	NO	1.28	5.031	45.11	45.11	1.001	1.001	NO	74.09		0.234	74.09
122	1... PCB-158/160	4.69e3	1.24	NO	1.24	5.031	45.38	45.34	1.007	1.006	NO	9.274		0.243	9.274
123	1... PCB-129	1.44e3	1.39	NO	0.867	5.031	45.61	45.63	1.012	1.012	NO	4.085		0.347	4.085
124	1... PCB-166			NO	1.14	5.031	46.08		0.993		YES			0.230	
125	1... PCB-159			NO	1.22	5.031	46.43		1.001		YES			0.216	
126	1... PCB-128/162	6.25e3	1.22	NO	0.907	5.031	46.71	46.71	1.007	1.007	NO	14.54		0.290	14.54
127	1... PCB-167	1.59e3	1.52	YES	1.11	5.031	47.12	47.12	1.000	1.000	NO	2.890		0.251	2.566
128	1... PCB-156	3.44e3	1.31	NO	1.13	5.031	48.45	48.45	1.000	1.000	NO	6.181		0.231	6.181
129	1... PCB-157	1.06e3	1.42	NO	1.04	5.031	48.73	48.73	1.000	1.000	NO	2.109		0.249	2.109

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
130	1... PCB-169			NO	1.16	5.031	51.01		1.000		YES			0.229	
131	1... PCB-188			NO	1.29	5.031	43.09		1.001		YES			0.255	
132	1... PCB-184			NO	1.23	5.031	43.54		1.011		YES			0.267	
133	1... PCB-179	3.31e3	0.85	YES	1.30	5.031	44.34	44.36	1.030	1.030	NO	7.617		0.253	6.844
134	1... PCB-176	1.01e3	1.07	NO	1.31	5.031	44.83	44.81	1.041	1.041	NO	2.307		0.251	2.307
135	1... PCB-186			NO	1.33	5.031	45.45		1.056		YES			0.247	
136	1... PCB-178	1.20e3	1.05	NO	0.943	5.031	45.97	45.97	1.068	1.068	NO	3.794		0.348	3.794
137	1... PCB-175	2.70e2	1.25	YES	0.956	5.031	46.33	46.31	1.076	1.076	NO	0.8425		0.243	0.7689
138	1... PCB-182/187	6.75e3	1.10	NO	1.07	5.031	46.50	46.50	1.080	1.080	NO	18.89		0.308	18.89
139	1... PCB-183	3.08e3	1.29	YES	1.02	5.031	46.82	46.82	1.088	1.088	NO	8.983		0.221	8.059
140	1... PCB-185	7.05e2	1.13	NO	1.41	5.031	47.50	47.50	0.955	0.955	NO	2.099		0.334	2.099
141	1... PCB-174	6.06e3	1.06	NO	1.35	5.031	47.87	47.88	0.962	0.962	NO	18.74		0.347	18.74
142	1... PCB-181	1.60e2	1.79	YES	1.47	5.031	47.98	47.97	0.964	0.964	NO	0.4548		0.318	0.3344
143	1... PCB-177	3.07e3	0.96	NO	1.28	5.031	48.16	48.15	0.968	0.968	NO	10.05		0.367	10.05
144	1... PCB-171	1.44e3	1.48	YES	1.32	5.031	48.47	48.47	0.974	0.974	NO	4.580		0.387	3.790
145	1... PCB-173	1.41e2	1.08	NO	1.19	5.031	48.89	48.88	0.983	0.982	NO	0.4972		0.395	0.4972
146	1... PCB-172	1.07e3	1.20	NO	1.38	5.031	49.36	49.36	0.992	0.992	NO	3.242		0.341	3.242
147	1... PCB-192			NO	1.83	5.031	49.57		0.996		YES			0.257	
148	1... PCB-180	1.34e4	1.04	NO	1.41	5.031	49.77	49.79	1.000	1.001	NO	39.59		0.333	39.59
149	1... PCB-193	7.94e2	1.01	NO	1.68	5.031	49.99	50.00	1.005	1.005	NO	1.980		0.280	1.980
150	1... PCB-191	2.15e2	2.09	YES	1.71	5.031	50.25	50.25	1.010	1.010	NO	0.5259		0.275	0.3487
151	1... PCB-170	4.90e3	1.19	NO	1.40	5.031	51.44	51.44	1.000	1.000	NO	17.19		0.365	17.19
152	1... PCB-190	1.42e3	0.89	NO	1.85	5.031	51.65	51.63	1.005	1.004	NO	3.760		0.276	3.760
153	1... PCB-189			NO	1.45	5.031	53.15		1.000		YES			0.252	
154	1... PCB-202	7.32e2	0.68	YES	1.17	5.031	48.69	48.69	1.001	1.001	NO	2.575		0.371	2.212
155	1... PCB-201	2.65e2	0.76	NO	1.05	5.031	49.17	49.17	1.010	1.011	NO	1.032		0.412	1.032
156	1... PCB-204			NO	1.14	5.031	49.32		1.014		YES			0.380	
157	1... PCB-197			NO	1.13	5.031	49.63		1.020		YES			0.383	
158	1... PCB-200	2.98e2	0.46	YES	1.07	5.031	50.57	50.61	1.039	1.040	NO	1.144		0.405	0.7627
159	1... PCB-198			NO	0.794	5.031	52.12		1.071		YES			0.546	
160	1... PCB-199	2.03e3	0.81	NO	0.809	5.031	52.26	52.26	1.074	1.074	NO	10.30		0.535	10.30
161	1... PCB-196/203	2.21e3	1.02	NO	0.838	5.031	52.55	52.56	1.080	1.080	NO	10.82		0.517	10.82
162	1... PCB-195	1.16e3	0.99	NO	1.04	5.031	53.83	53.83	0.984	0.984	NO	3.164		0.270	3.164

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	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
163	1... PCB-194	3.76e3	1.00	NO	1.12	5.031	54.74	54.74	1.000	1.000	NO	9.588		0.253	9.588
164	1... PCB-205	2.55e2	0.85	NO	1.29	5.031	55.01	55.01	1.005	1.005	NO	0.5641		0.219	0.5641
165	1... PCB-208	6.08e2	1.15	NO	0.933	5.031	53.98	53.97	1.000	1.000	NO	1.805		0.242	1.805
166	1... PCB-207	3.48e2	1.22	NO	0.916	5.031	54.30	54.30	1.006	1.006	NO	1.051		0.246	1.051
167	1... PCB-206	1.58e3	1.24	NO	1.01	5.031	56.27	56.27	1.000	1.000	NO	6.075		0.301	6.075
168	1... PCB-209	1.22e3	1.33	NO	0.986	5.031	57.49	57.50	1.000	1.000	NO	4.994		0.339	4.994
169	1... 13C-PCB-1	9.93e5	3.25	NO	0.893	5.031	15.59	15.59	0.609	0.609	NO	927.3	46.6	1.14	
170	1... 13C-PCB-3	1.09e6	3.55	NO	0.911	5.031	18.23	18.24	0.712	0.713	NO	1002	50.4	1.12	
171	1... 13C-PCB-4	9.89e5	1.62	NO	0.600	5.031	19.60	19.58	0.766	0.765	NO	1375	69.2	0.570	
172	1... 13C-PCB-9	1.69e6	1.63	NO	0.970	5.031	21.41	21.41	0.837	0.837	NO	1450	73.0	0.353	
173	1... 13C-PCB-11	1.76e6	1.62	NO	0.962	5.031	24.87	24.87	0.972	0.972	NO	1528	76.9	0.356	
174	1... 13C-PCB-19	6.86e5	1.05	NO	0.499	5.031	23.83	23.83	0.931	0.931	NO	1148	57.7	4.90	
175	1... 13C-PCB-32	1.07e6	1.05	NO	0.744	5.031	26.82	26.82	1.048	1.048	NO	1205	60.6	3.29	
176	1... 13C-PCB-28	1.89e6	1.09	NO	1.06	5.031	28.83	28.83	1.004	1.004	NO	1762	88.6	4.02	
177	1... 13C-PCB-37	1.79e6	1.10	NO	0.989	5.031	32.81	32.85	1.143	1.144	NO	1789	90.0	4.32	
178	1... 13C-PCB-54	1.00e6	0.80	NO	0.999	5.031	27.67	27.66	0.753	0.752	NO	1475	74.2	1.19	
179	1... 13C-PCB-52	8.90e5	0.80	NO	0.804	5.031	31.34	31.33	0.853	0.852	NO	1629	82.0	1.48	
180	1... 13C-PCB-47	9.40e5	0.81	NO	0.857	5.031	31.87	31.86	0.867	0.867	NO	1615	81.3	1.38	
181	1... 13C-PCB-70	1.16e6	0.82	NO	0.996	5.031	35.49	35.47	0.965	0.965	NO	1719	86.5	1.19	
182	1... 13C-PCB-80	1.21e6	0.81	NO	1.03	5.031	35.92	35.92	0.977	0.977	NO	1732	87.1	1.15	
183	1... 13C-PCB-81	1.22e6	0.82	NO	0.988	5.031	39.12	39.12	1.064	1.064	NO	1812	91.2	1.20	
184	1... 13C-PCB-77	1.19e6	0.81	NO	0.969	5.031	39.74	39.74	1.081	1.081	NO	1807	90.9	1.22	
185	1... 13C-PCB-104	6.53e5	1.58	NO	1.02	5.031	32.51	32.53	0.827	0.827	NO	1591	80.0	0.833	
186	1... 13C-PCB-95	5.52e5	1.60	NO	0.805	5.031	35.77	35.79	0.910	0.910	NO	1698	85.4	1.05	
187	1... 13C-PCB-101	5.57e5	1.63	NO	0.793	5.031	37.52	37.54	0.954	0.955	NO	1741	87.6	1.07	
188	1... 13C-PCB-97	4.97e5	1.62	NO	0.696	5.031	38.85	38.88	0.988	0.989	NO	1769	89.0	1.22	
189	1... 13C-PCB-123	6.92e5	1.65	NO	0.933	5.031	41.52	41.52	1.056	1.056	NO	1835	92.3	0.908	
190	1... 13C-PCB-118	7.17e5	1.67	NO	0.986	5.031	41.71	41.71	1.061	1.061	NO	1802	90.7	0.859	
191	1... 13C-PCB-114	1.33e6	1.64	NO	1.55	5.031	42.36	42.38	0.908	0.908	NO	2215	111	1.06	
192	1... 13C-PCB-105	1.36e6	1.60	NO	1.57	5.031	43.28	43.28	0.927	0.927	NO	2216	111	1.04	
193	1... 13C-PCB-127	1.41e6	1.61	NO	1.62	5.031	43.61	43.64	0.935	0.935	NO	2224	112	1.01	
194	1... 13C-PCB-126	1.27e6	1.63	NO	1.57	5.031	45.57	45.59	0.976	0.977	NO	2077	105	1.04	
195	1... 13C-PCB-155	4.35e5	1.32	NO	0.615	5.031	37.06	37.06	0.942	0.942	NO	1751	88.1	0.577	

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Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
196	1... 13C-PCB-153	9.29e5	1.29	NO	1.36	5.031	43.42	43.45	0.930	0.931	NO	1748	87.9	1.13	
197	1... 13C-PCB-141	7.63e5	1.29	NO	1.13	5.031	44.21	44.20	0.947	0.947	NO	1737	87.4	1.37	
198	1... 13C-PCB-138	8.11e5	1.31	NO	1.18	5.031	45.06	45.08	0.965	0.966	NO	1756	88.4	1.31	
199	1... 13C-PCB-159	9.41e5	1.26	NO	1.44	5.031	46.40	46.40	0.994	0.994	NO	1678	84.4	1.08	
200	2... 13C-PCB-167	9.88e5	1.30	NO	1.44	5.031	47.10	47.10	1.009	1.009	NO	1760	88.6	1.08	
201	2... 13C-PCB-156	9.81e5	1.30	NO	1.40	5.031	48.43	48.43	1.038	1.038	NO	1803	90.7	1.11	
202	2... 13C-PCB-157	9.63e5	1.31	NO	1.40	5.031	48.72	48.71	1.044	1.044	NO	1768	89.0	1.11	
203	2... 13C-PCB-169	9.55e5	1.26	NO	1.33	5.031	50.99	50.99	1.093	1.093	NO	1840	92.6	1.16	
204	2... 13C-PCB-188	6.66e5	0.46	NO	1.41	5.031	43.05	43.05	0.926	0.926	NO	1820	91.5	0.906	
205	2... 13C-PCB-180	4.75e5	0.46	NO	0.929	5.031	49.76	49.76	1.070	1.070	NO	1970	99.1	1.37	
206	2... 13C-PCB-170	4.05e5	0.46	NO	0.794	5.031	51.42	51.42	1.106	1.106	NO	1961	98.7	1.61	
207	2... 13C-PCB-189	5.30e5	0.46	NO	1.04	5.031	53.13	53.13	1.143	1.143	NO	1954	98.3	1.22	
208	2... 13C-PCB-202	4.84e5	0.95	NO	1.04	5.031	48.66	48.66	1.046	1.046	NO	1799	90.5	0.608	
209	2... 13C-PCB-194	6.98e5	0.94	NO	0.768	5.031	54.72	54.72	0.995	0.995	NO	1791	90.1	1.06	
210	2... 13C-PCB-208	7.17e5	0.79	NO	0.991	5.031	53.96	53.96	0.981	0.981	NO	1428	71.8	0.725	
211	2... 13C-PCB-206	5.15e5	0.80	NO	0.552	5.031	56.26	56.26	1.023	1.023	NO	1838	92.5	1.30	
212	2... 13C-PCB-209	4.93e5	1.27	NO	0.396	5.031	57.50	57.49	1.046	1.045	NO	2453	123	0.877	
213	2... 13C-PCB-15	2.38e6	1.63	NO	1.00	5.031	25.58	25.59	1.000	0.000	NO	1988	100	0.342	
214	2... 13C-PCB-31	2.00e6	1.09	NO	1.00	5.031	28.72	28.72	1.000	0.000	NO	1988	100	4.28	
215	2... 13C-PCB-60	1.35e6	0.81	NO	1.00	5.031	36.74	36.76	1.000	0.000	NO	1988	100	1.19	
216	2... 13C-PCB-111	8.03e5	1.60	NO	1.00	5.031	39.33	39.33	1.000	0.000	NO	1988	100	0.847	
217	2... 13C-PCB-128	7.75e5	1.29	NO	1.00	5.031	46.67	46.67	1.000	0.000	NO	1988	100	1.55	
218	2... 13C-PCB-182	5.16e5	0.45	NO	1.00	5.031	46.50	46.50	0.000	0.000	NO	1988	100	1.28	
219	2... 13C-PCB-205	1.01e6	0.94	NO	1.00	5.031	55.01	55.00	1.000	0.000	NO	1988	100	0.814	
220	2... 13C-PCB-79	1.37e6	0.81	NO	1.07	5.031	37.86	37.86	1.030	1.030	NO	1883	94.7	1.11	
221	2... 13C-PCB-178	4.55e5	0.47	NO	0.766	5.031	45.95	45.95	0.988	0.988	NO	1523	76.6	1.19	
222	2... 13C-PCB-79	1.37e6	0.81	NO	1.08	5.031	37.85	37.86	0.968	0.968	NO	2065	104	1.26	
223	2... 13C-PCB-178	4.55e5	0.47	NO	1.05	5.031	45.94	45.95	0.923	0.923	NO	1813	91.2	1.41	
224	2... Total Mono-PCBs				1.17	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	2... Total Di-PCBs				1.05	5.031	0.00		0.000		NO	35.06		4.03	35.06
226	2... 2nd Function Tri-PCBs				1.08	5.031	0.00		0.000		NO	29.01		2.65	30.41
227	2... 3rd Function Tri-PCBs				0.983	5.031	0.00		0.000		NO	63.33		5.96	63.33
228	2... Total Tetra-PCBs				1.08	5.031	0.00		0.000		NO	177.3		7.26	192.7

> 92.34 ✓  
> 93.74 ✓

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
229	2... 3rd Function Penta-PCBs				1.32	5.031	0.00		0.000		NO	299.1	> 317.34 ✓	11.4	304.6 > 322.8! ✓
230	2... 4th Function Penta-PCBs				1.07	5.031	0.00		0.000		NO	18.24		1.47	18.24
231	2... 3rd Function Hexa-PCBs				0.951	5.031	0.00		0.000		NO	70.33		4.77	87.32 > 326.8! ✓
232	2... 4th Function Hexa-PCBs				1.03	5.031	0.00		0.000		NO	233.1	> 303.43 ✓	5.40	239.5
233	2... Total Hepta-PCBs				1.36	5.031	0.00		0.000		NO	122.1		7.09	142.3
234	2... 4th Function Octa-PCBs				1.00	5.031	0.00		0.000		NO	22.15	> 27.05	3.55	25.13 > 34.76
235	2... 5th Function Octa-PCBs				1.15	5.031	0.00		0.000		NO	13.32		0.742	13.32
236	2... Total Nona-PCBs				0.952	5.031	0.00		0.000		NO	8.931	> 35.47	0.789	8.931 > 38.45
237	2... Deca-CB				0.986	5.031	0.00		0.000		NO	4.994		0.339	4.994
238	2... Total PCBs														



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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

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**Total Mono-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-1	15.60	15.60	1.620e4	4.499e3	7.889e2	2.285e2	3.45	NO	1.017e3	1.7429	1.7429	0.292
2	PCB-2	18.02	18.01	2.484e4	9.224e3	1.605e3	5.618e2	2.86	NO	2.166e3	3.3284	3.3284	0.274
3	PCB-3	18.25	18.26	1.648e4	5.852e3	1.048e3	3.824e2	2.74	NO	1.430e3	2.2636	2.2636	0.282

**Total Di-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-4/10	19.66	19.61	3.029e4	2.046e4	1.954e3	1.341e3	1.46	NO	3.295e3	5.3050	5.3050	0.656
2	PCB-5/8	22.53	22.52	7.966e4	6.185e4	5.286e3	3.823e3	1.38	NO	9.109e3	10.822	10.822	0.498
3	PCB-11	24.89	24.89	9.174e4	5.955e4	6.010e3	4.041e3	1.49	NO	1.005e4	10.070	10.070	0.437
4	PCB-15	25.61	25.61	8.246e4	4.917e4	5.077e3	3.054e3	1.66	NO	8.131e3	8.8675	8.8675	0.475

**2nd Function Tri-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-19	23.86	23.85	1.169e4	9.239e3	7.035e2	6.009e2	1.17	NO	1.304e3	3.4151	3.4151	0.546
2	PCB-18	25.53	25.52	3.680e4	3.506e4	2.491e3	2.194e3	1.14	NO	4.685e3	10.598	10.598	0.475
3	PCB-17	25.71	25.70	1.906e4	1.604e4	1.263e3	1.066e3	1.18	NO	2.330e3	5.6818	5.6818	0.512
4	PCB-24/27	26.31	26.29	8.369e3	5.837e3	4.992e2	4.003e2	1.25	YES	8.995e2	0.00000	1.3960	0.359
5	PCB-16/32	26.84	26.84	2.312e4	2.234e4	2.508e3	2.152e3	1.17	NO	4.660e3	9.3145	9.3145	0.419

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3rd Function Tri-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-26	28.22	28.22	2.344e4	1.830e4	1.880e3	1.584e3	1.19	NO	3.464e3	3.8570	3.8570	0.435
2	PCB-25	28.37	28.39	1.282e4	1.182e4	1.041e3	9.664e2	1.08	NO	2.007e3	2.2209	2.2209	0.432
3	PCB-31	28.75	28.76	9.765e4	8.975e4	7.256e3	6.731e3	1.08	NO	1.399e4	14.187	14.187	0.396
4	PCB-28	28.85	28.85	1.221e5	1.164e5	9.264e3	8.850e3	1.05	NO	1.811e4	18.576	18.576	0.400
5	PCB-20/21/33	29.49	29.52	5.665e4	5.469e4	4.899e3	4.783e3	1.02	NO	9.682e3	10.812	10.812	0.436
6	PCB-22	29.93	29.95	4.159e4	3.960e4	3.113e3	2.897e3	1.07	NO	6.010e3	6.4938	6.4938	0.422
7	PCB-37	32.87	32.87	4.566e4	3.745e4	3.546e3	2.966e3	1.20	NO	6.512e3	7.1862	7.1862	0.425

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Total Tetra-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-54	27.68	27.72	2.440e3	2.480e3	2.179e2	1.721e2	1.27	YES	3.900e2	0.00000	0.56031	0.226
2	PCB-53	29.56	29.58	1.251e4	1.277e4	8.721e2	9.949e2	0.88	NO	1.867e3	4.1836	4.1836	0.271
3	PCB-51	29.92	29.93	5.239e3	5.757e3	4.400e2	5.314e2	0.83	NO	9.714e2	2.0368	2.0368	0.254
4	PCB-45	30.36	30.36	1.008e4	8.196e3	6.658e2	6.422e2	1.04	YES	1.308e3	0.00000	2.9575	0.315
5	PCB-46	30.86	30.86	3.168e3	3.726e3	3.118e2	3.128e2	1.00	YES	6.245e2	0.00000	1.4884	0.325
6	PCB-52/69	31.36	31.36	7.616e4	8.652e4	5.997e3	6.906e3	0.87	NO	1.290e4	24.704	24.704	0.232
7	PCB-43/49	31.65	31.68	4.403e4	5.581e4	3.580e3	4.467e3	0.80	NO	8.047e3	17.687	17.687	0.266
8	PCB-47	31.88	31.88	2.125e4	2.911e4	1.724e3	2.339e3	0.74	NO	4.063e3	9.3153	9.3153	0.286
9	PCB-48/75	32.00	32.01	1.456e4	1.432e4	1.047e3	1.169e3	0.90	YES	2.216e3	0.00000	3.9040	0.236
10	PCB-44	32.70	32.70	4.950e4	5.768e4	3.661e3	4.543e3	0.81	NO	8.204e3	21.039	21.039	0.320
11	PCB-42/59	32.93	32.94	2.080e4	2.555e4	1.622e3	1.962e3	0.83	NO	3.585e3	7.2175	7.2175	0.252
12	PCB-41/64/71/72	33.54	33.54	5.031e4	7.278e4	4.191e3	6.233e3	0.67	NO	1.042e4	18.555	18.555	0.222
13	PCB-68	33.80	33.76	1.425e3	2.109e3	1.347e2	1.564e2	0.86	NO	2.911e2	0.48151	0.48151	0.207
14	PCB-40	34.02	34.01	8.941e3	8.857e3	6.982e2	7.037e2	0.99	YES	1.402e3	0.00000	4.3727	0.439
15	PCB-57	34.38	34.38	1.314e3	2.480e3	1.092e2	1.529e2	0.71	NO	2.621e2	0.38536	0.38536	0.176
16	PCB-67	34.69	34.73	2.135e3	3.572e3	1.823e2	2.825e2	0.65	YES	4.648e2	0.00000	0.66089	0.189
17	PCB-63	34.97	34.99	5.473e3	4.030e3	4.129e2	3.182e2	1.30	YES	7.310e2	0.00000	0.89845	0.191
18	PCB-74	35.28	35.29	4.017e4	4.329e4	2.927e3	3.479e3	0.84	NO	6.407e3	9.2446	9.2446	0.173
19	PCB-61/70	35.49	35.49	8.600e4	1.126e5	6.690e3	8.570e3	0.78	NO	1.526e4	24.753	24.753	0.194
20	PCB-76/66	35.68	35.72	7.489e4	9.652e4	5.858e3	7.730e3	0.76	NO	1.359e4	19.953	19.953	0.176
21	PCB-55	36.28	36.22	1.386e3	3.062e3	1.338e2	2.261e2	0.59	YES	3.598e2	0.00000	0.43236	0.164
22	PCB-56/60	36.77	36.76	5.260e4	5.994e4	4.259e3	4.869e3	0.87	NO	9.128e3	14.737	14.737	0.189
23	PCB-79	37.90	37.89	2.856e3	3.179e3	2.668e2	3.059e2	0.87	NO	5.727e2	0.82671	0.82671	0.169
24	PCB-81	39.14	39.16	2.021e3	2.019e3	7.531e1	6.210e1	1.21	YES	1.374e2	0.00000	0.17171	0.197
25	PCB-77	39.76	39.76	9.234e3	1.040e4	6.812e2	7.758e2	0.88	NO	1.457e3	2.1428	2.1428	0.179

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3rd Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-103	34.41	34.40	2.674e3	2.010e3	1.944e2	1.430e2	1.36	NO	3.374e2	1.0964	1.0964	0.439
2	PCB-95/98/102	35.74	35.81	1.039e5	5.990e4	8.063e3	4.631e3	1.74	NO	1.269e4	37.930	37.930	0.425
3	PCB-93	35.89	35.87	1.821e4	9.324e3	2.743e2	1.478e2	1.86	YES	4.221e2	0.00000	1.4561	0.548
4	PCB-88/91	36.22	36.22	1.762e4	1.103e4	1.370e3	8.792e2	1.56	NO	2.250e3	7.6030	7.6030	0.481
5	PCB-84/92	37.17	37.15	5.474e4	3.476e4	4.077e3	2.704e3	1.51	NO	6.781e3	23.754	23.754	0.498
6	PCB-89	37.36	37.35	1.695e3	8.010e2	1.160e2	6.681e1	1.74	NO	1.828e2	0.58984	0.58984	0.459
7	PCB-90/101	37.55	37.56	1.344e5	8.632e4	1.086e4	6.784e3	1.60	NO	1.764e4	56.023	56.023	0.452
8	PCB-99	37.90	37.89	5.881e4	3.771e4	4.474e3	3.057e3	1.46	NO	7.531e3	20.327	20.327	0.384
9	PCB-119	38.38	38.36	4.049e3	2.477e3	3.486e2	1.852e2	1.88	YES	5.338e2	0.00000	1.0493	0.313
10	PCB-108/112	38.53	38.53	6.855e3	3.507e3	6.013e2	3.210e2	1.87	YES	9.223e2	0.00000	2.2721	0.391
11	PCB-97	38.90	38.90	3.194e4	2.506e4	2.543e3	1.814e3	1.40	NO	4.357e3	13.579	13.579	0.441
12	PCB-87/117/125	39.19	39.20	5.560e4	3.266e4	4.426e3	2.738e3	1.62	NO	7.164e3	18.363	18.363	0.363
13	PCB-111/115	39.35	39.33	2.279e3	1.550e3	1.441e2	8.944e1	1.61	NO	2.335e2	0.48843	0.48843	0.296
14	PCB-85/116	39.47	39.46	2.125e4	1.385e4	1.794e3	1.179e3	1.52	NO	2.973e3	8.4189	8.4189	0.401
15	PCB-110	39.89	39.87	2.055e5	1.275e5	1.581e4	1.017e4	1.55	NO	2.598e4	59.568	59.568	0.325
16	PCB-82	40.50	40.50	1.213e4	8.081e3	9.708e2	5.920e2	1.64	NO	1.563e3	5.7497	5.7497	0.501
17	PCB-124	41.21	41.22	7.064e3	4.164e3	5.372e2	3.404e2	1.58	NO	8.776e2	1.8060	1.8060	0.280
18	PCB-107/109	41.35	41.39	1.259e4	7.574e3	9.822e2	6.018e2	1.63	NO	1.584e3	3.3934	3.3934	0.292
19	PCB-123	41.54	41.54	2.039e3	2.446e3	1.662e2	1.941e2	0.86	YES	3.603e2	0.00000	0.65446	0.327
20	PCB-106/118	41.75	41.73	1.401e5	8.582e4	1.086e4	6.930e3	1.57	NO	1.779e4	40.430	40.430	0.318

4th Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-114	42.41	42.38	4.538e3	2.984e3	3.733e2	2.222e2	1.68	NO	5.954e2	0.77700	0.77700	0.276
2	PCB-122	42.55	42.54	2.543e3	1.606e3	2.486e2	1.416e2	1.76	NO	3.902e2	0.61538	0.61538	0.334
3	PCB-105	43.29	43.29	8.547e4	5.707e4	7.090e3	4.661e3	1.52	NO	1.175e4	16.371	16.371	0.293
4	PCB-126	45.61	45.61	3.206e3	2.165e3	2.203e2	1.333e2	1.65	NO	3.536e2	0.47236	0.47236	0.285

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3rd Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-136	39.66	39.66	1.471e4	1.110e4	1.119e3	8.877e2	1.26	NO	2.006e3	8.9874	8.9874	0.335
2	PCB-154	40.28	40.29	1.363e3	1.477e3	9.327e1	1.068e2	0.87	YES	2.001e2	0.00000	0.83845	0.372
3	PCB-151	40.95	40.94	2.176e4	1.508e4	1.612e3	1.071e3	1.51	YES	2.683e3	0.00000	13.947	0.435
4	PCB-135	41.17	41.17	1.302e4	1.066e4	1.019e3	8.349e2	1.22	NO	1.854e3	9.1926	9.1926	0.371
5	PCB-144	41.28	41.28	3.103e3	4.052e3	2.112e2	2.946e2	0.72	YES	5.058e2	0.00000	2.2113	0.433
6	PCB-147	41.41	41.41	1.754e3	1.755e3	1.540e2	1.340e2	1.15	NO	2.880e2	1.5784	1.5784	0.410
7	PCB-139/149	41.70	41.67	7.831e4	5.353e4	6.116e3	4.364e3	1.40	NO	1.048e4	50.567	50.567	0.361

4th Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-134/143	42.33	42.35	1.083e4	9.711e3	9.267e2	7.302e2	1.27	NO	1.657e3	4.6687	4.6687	0.336
2	PCB-131/133	42.65	42.63	5.879e3	6.130e3	5.246e2	4.913e2	1.07	NO	1.016e3	2.6468	2.6468	0.311
3	PCB-146/165	43.05	43.05	3.514e4	3.057e4	2.815e3	2.328e3	1.21	NO	5.143e3	10.820	10.820	0.251
4	PCB-132/161	43.29	43.31	7.220e4	5.647e4	5.677e3	4.469e3	1.27	NO	1.015e4	21.187	21.187	0.249
5	PCB-153	43.46	43.47	2.353e5	1.871e5	1.768e4	1.392e4	1.27	NO	3.160e4	63.132	63.132	0.238
6	PCB-141	44.22	44.22	3.835e4	3.322e4	3.070e3	2.638e3	1.16	NO	5.708e3	14.479	14.479	0.305
7	PCB-137	44.62	44.62	1.433e4	8.488e3	1.102e3	7.183e2	1.53	YES	1.820e3	0.00000	3.7734	0.282
8	PCB-130	44.71	44.72	1.517e4	1.313e4	1.083e3	9.346e2	1.16	NO	2.018e3	5.9364	5.9364	0.354
9	PCB-138/163/164	45.11	45.11	2.280e5	1.966e5	2.116e4	1.763e4	1.20	NO	3.879e4	74.087	74.087	0.234
10	PCB-158/160	45.38	45.34	3.195e4	2.604e4	2.595e3	2.096e3	1.24	NO	4.691e3	9.2739	9.2739	0.243
11	PCB-129	45.61	45.63	9.559e3	7.589e3	8.392e2	6.050e2	1.39	NO	1.444e3	4.0853	4.0853	0.347
12	PCB-128/162	46.71	46.71	4.335e4	3.444e4	3.434e3	2.814e3	1.22	NO	6.248e3	14.544	14.544	0.290
13	PCB-167	47.12	47.12	1.243e4	8.711e3	9.611e2	6.312e2	1.52	YES	1.592e3	0.00000	2.5659	0.231
14	PCB-156	48.45	48.45	2.377e4	1.927e4	1.946e3	1.490e3	1.31	NO	3.436e3	6.1812	6.1812	0.231
15	PCB-157	48.73	48.73	7.678e3	5.552e3	6.225e2	4.379e2	1.42	NO	1.060e3	2.1087	2.1087	0.249

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**Total Hepta-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-179	44.34	44.36	1.884e4	2.226e4	1.525e3	1.788e3	0.85	YES	3.313e3	0.00000	6.8443	0.253
2	PCB-176	44.83	44.81	6.283e3	6.303e3	5.235e2	4.883e2	1.07	NO	1.012e3	2.3075	2.3075	0.251
3	PCB-178	45.97	45.97	8.294e3	7.872e3	6.137e2	5.855e2	1.05	NO	1.199e3	3.7945	3.7945	0.348
4	PCB-175	46.33	46.31	2.066e3	1.652e3	1.498e2	1.202e2	1.25	YES	2.699e2	0.00000	0.76888	0.343
5	PCB-182/187	46.50	46.50	4.431e4	4.001e4	3.540e3	3.209e3	1.10	NO	6.749e3	18.893	18.893	0.308
6	PCB-183	46.82	46.82	2.214e4	1.747e4	1.731e3	1.347e3	1.29	YES	3.078e3	0.00000	8.0588	0.321
7	PCB-185	47.50	47.50	3.972e3	3.848e3	3.737e2	3.315e2	1.13	NO	7.052e2	2.0987	2.0987	0.334
8	PCB-174	47.87	47.88	3.983e4	3.855e4	3.126e3	2.937e3	1.06	NO	6.064e3	18.739	18.739	0.347
9	PCB-181	47.98	47.97	2.857e3	1.397e3	1.028e2	5.749e1	1.79	YES	1.603e2	0.00000	0.33441	0.318
10	PCB-177	48.16	48.15	1.877e4	1.955e4	1.505e3	1.564e3	0.96	NO	3.069e3	10.047	10.047	0.367
11	PCB-171	48.47	48.47	1.111e4	7.964e3	8.624e2	5.816e2	1.48	YES	1.444e3	0.00000	3.7898	0.357
12	PCB-173	48.89	48.88	1.083e3	1.182e3	7.354e1	6.789e1	1.08	NO	1.414e2	0.49725	0.49725	0.395
13	PCB-172	49.36	49.36	5.930e3	5.569e3	5.816e2	4.842e2	1.20	NO	1.066e3	3.2422	3.2422	0.341
14	PCB-180	49.77	49.79	7.888e4	7.972e4	6.808e3	6.551e3	1.04	NO	1.336e4	39.586	39.586	0.333
15	PCB-193	49.99	50.00	5.188e3	4.199e3	3.992e2	3.945e2	1.01	NO	7.937e2	1.9803	1.9803	0.280
16	PCB-191	50.25	50.25	1.851e3	8.660e2	1.454e2	6.954e1	2.09	YES	2.150e2	0.00000	0.34872	0.275
17	PCB-170	51.44	51.44	3.470e4	2.925e4	2.666e3	2.234e3	1.19	NO	4.900e3	17.190	17.190	0.365
18	PCB-190	51.65	51.63	9.662e3	9.765e3	6.689e2	7.475e2	0.89	NO	1.416e3	3.7602	3.7602	0.276

**4th Function Octa-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-202	48.69	48.69	3.752e3	5.651e3	2.962e2	4.360e2	0.68	YES	7.323e2	0.00000	2.2119	0.371
2	PCB-201	49.17	49.17	1.493e3	1.813e3	1.144e2	1.501e2	0.76	NO	2.645e2	1.0320	1.0320	0.412
3	PCB-200	50.57	50.61	2.381e3	2.368e3	9.358e1	2.045e2	0.46	YES	2.981e2	0.00000	0.76270	0.405
4	PCB-199	52.26	52.26	1.286e4	1.476e4	9.057e2	1.124e3	0.81	NO	2.029e3	10.300	10.300	0.535
5	PCB-196/203	52.55	52.56	1.587e4	1.520e4	1.117e3	1.092e3	1.02	NO	2.208e3	10.822	10.822	0.517

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5th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-195	53.83	53.83	9.896e3	8.979e3	5.764e2	5.834e2	0.99	NO	1.160e3	3.1638	3.1638	0.270
2	PCB-194	54.74	54.74	3.300e4	3.348e4	1.877e3	1.878e3	1.00	NO	3.755e3	9.5881	9.5881	0.253
3	PCB-205	55.01	55.01	1.863e3	3.006e3	1.177e2	1.376e2	0.85	NO	2.553e2	0.56411	0.56411	0.219

Total Nona-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-208	53.98	53.97	5.150e3	5.110e3	3.254e2	2.825e2	1.15	NO	6.079e2	1.8050	1.8050	0.242
2	PCB-207	54.30	54.30	2.796e3	2.388e3	1.910e2	1.567e2	1.22	NO	3.477e2	1.0512	1.0512	0.246
3	PCB-206	56.27	56.27	1.469e4	1.326e4	8.775e2	7.074e2	1.24	NO	1.585e3	6.0750	6.0750	0.301

Deca-CB

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-209	57.49	57.50	1.299e4	8.696e3	6.984e2	5.236e2	1.33	NO	1.222e3	4.9939	4.9939	0.339

Total PCBs

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

Total Mono-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	<sup>13</sup> C-PCB-1	15.59	15.59	1.308e7	3.959e6	7.595e5	2.336e5	3.25	NO	9.931e5	927.29		1.14
2	<sup>13</sup> C-PCB-3	18.23	18.24	1.404e7	3.881e6	8.532e5	2.406e5	3.55	NO	1.094e6	1001.7		1.12

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**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-4	19.60	19.58	1.012e7	6.222e6	6.123e5	3.769e5	1.62	NO	9.892e5	1375.5		0.570
2	13C-PCB-9	21.41	21.41	1.676e7	1.022e7	1.044e6	6.416e5	1.63	NO	1.686e6	1450.4		0.353
3	13C-PCB-11	24.87	24.87	1.681e7	1.039e7	1.089e6	6.724e5	1.62	NO	1.761e6	1528.3		0.356
4	13C-PCB-15	25.58	25.59	2.281e7	1.393e7	1.476e6	9.065e5	1.63	NO	2.383e6	1987.8		0.342

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-19	23.83	23.83	5.417e6	5.245e6	3.511e5	3.352e5	1.05	NO	6.863e5	1147.7		4.90
2	13C-PCB-32	26.82	26.82	8.432e6	8.049e6	5.501e5	5.246e5	1.05	NO	1.075e6	1204.9		3.29

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.72	28.72	1.421e7	1.314e7	1.044e6	9.612e5	1.09	NO	2.005e6	1987.8		4.28
2	13C-PCB-28	28.83	28.83	1.290e7	1.195e7	9.844e5	9.067e5	1.09	NO	1.891e6	1761.7		4.02
3	13C-PCB-37	32.81	32.85	1.244e7	1.127e7	9.369e5	8.482e5	1.10	NO	1.785e6	1789.4		4.32

**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.67	27.66	5.714e6	7.149e6	4.457e5	5.551e5	0.80	NO	1.001e6	1474.6		1.19
2	13C-PCB-52	31.34	31.33	5.161e6	6.445e6	3.955e5	4.945e5	0.80	NO	8.900e5	1629.5		1.48
3	13C-PCB-47	31.87	31.86	5.329e6	6.559e6	4.217e5	5.187e5	0.81	NO	9.405e5	1615.2		1.38
4	13C-PCB-70	35.49	35.47	6.895e6	8.400e6	5.224e5	6.401e5	0.82	NO	1.162e6	1718.9		1.19
5	13C-PCB-80	35.92	35.92	7.317e6	9.013e6	5.415e5	6.680e5	0.81	NO	1.209e6	1732.1		1.15
6	13C-PCB-60	36.74	36.76	7.838e6	9.674e6	6.055e5	7.445e5	0.81	NO	1.350e6	1987.8		1.19
7	13C-PCB-79	37.86	37.86	7.897e6	9.811e6	6.119e5	7.552e5	0.81	NO	1.367e6	1883.2		1.11
8	13C-PCB-81	39.12	39.12	6.844e6	8.565e6	5.460e5	6.700e5	0.82	NO	1.216e6	1812.2		1.20
9	13C-PCB-77	39.74	39.74	6.919e6	8.497e6	5.321e5	6.566e5	0.81	NO	1.189e6	1806.8		1.22



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3rd Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-104	32.51	32.53	5.371e6	3.431e6	4.005e5	2.527e5	1.58	NO	6.532e5	1590.9		0.833
2	13C-PCB-95	35.77	35.79	4.321e6	2.735e6	3.396e5	2.127e5	1.60	NO	5.523e5	1698.2		1.05
3	13C-PCB-101	37.52	37.54	4.394e6	2.722e6	3.452e5	2.123e5	1.63	NO	5.575e5	1741.3		1.07
4	13C-PCB-97	38.85	38.88	3.937e6	2.398e6	3.078e5	1.897e5	1.62	NO	4.975e5	1768.5		1.22
5	13C-PCB-111	39.33	39.33	6.545e6	4.060e6	4.945e5	3.085e5	1.60	NO	8.030e5	1987.8		0.847
6	13C-PCB-123	41.52	41.52	5.722e6	3.458e6	4.303e5	2.612e5	1.65	NO	6.915e5	1835.1		0.908
7	13C-PCB-118	41.71	41.71	5.797e6	3.468e6	4.483e5	2.692e5	1.67	NO	7.175e5	1802.1		0.859

4th Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-114	42.36	42.38	1.059e7	6.482e6	8.295e5	5.054e5	1.64	NO	1.335e6	2214.8		1.06
2	13C-PCB-105	43.28	43.28	1.071e7	6.731e6	8.348e5	5.231e5	1.60	NO	1.358e6	2216.1		1.04
3	13C-PCB-127	43.61	43.64	1.106e7	6.914e6	8.683e5	5.399e5	1.61	NO	1.408e6	2224.1		1.01
4	13C-PCB-126	45.57	45.59	9.968e6	6.037e6	7.864e5	4.829e5	1.63	NO	1.269e6	2077.5		1.04

4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-153	43.42	43.45	6.941e6	5.350e6	5.239e5	4.056e5	1.29	NO	9.295e5	1747.6		1.13
2	13C-PCB-141	44.21	44.20	5.650e6	4.394e6	4.305e5	3.328e5	1.29	NO	7.633e5	1736.7		1.37
3	13C-PCB-138	45.06	45.08	5.923e6	4.447e6	4.598e5	3.510e5	1.31	NO	8.108e5	1756.2		1.31
4	13C-PCB-159	46.40	46.40	6.664e6	5.336e6	5.246e5	4.164e5	1.26	NO	9.410e5	1677.6		1.08
5	13C-PCB-128	46.67	46.67	5.349e6	4.190e6	4.363e5	3.383e5	1.29	NO	7.746e5	1987.8		1.55
6	13C-PCB-167	47.10	47.10	6.916e6	5.397e6	5.576e5	4.303e5	1.30	NO	9.880e5	1760.4		1.08
7	13C-PCB-156	48.43	48.43	6.834e6	5.304e6	5.549e5	4.265e5	1.30	NO	9.814e5	1802.8		1.11
8	13C-PCB-157	48.72	48.71	6.886e6	5.249e6	5.465e5	4.162e5	1.31	NO	9.627e5	1768.4		1.11
9	13C-PCB-169	50.99	50.99	6.601e6	5.241e6	5.320e5	4.227e5	1.26	NO	9.547e5	1840.4		1.16

Vista Analytical Laboratory

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-12.qld

Last Altered: Thursday, November 12, 2020 16:18:55 Pacific Standard Time

Printed: Thursday, November 12, 2020 16:23:05 Pacific Standard Time

ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

5th Function Octa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	<sup>13</sup> C-PCB-194	54.72	54.72	6.165e6	6.610e6	3.375e5	3.602e5	0.94	NO	6.977e5	1791.1		1.06
2	<sup>13</sup> C-PCB-205	55.01	55.00	8.922e6	9.510e6	4.873e5	5.209e5	0.94	NO	1.008e6	1987.8		0.814

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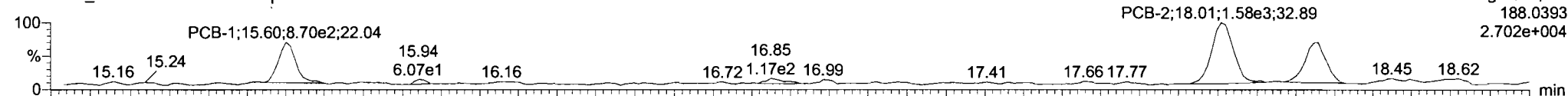
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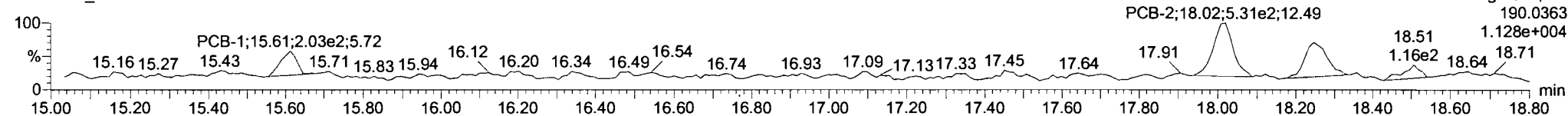
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**PCB-1**

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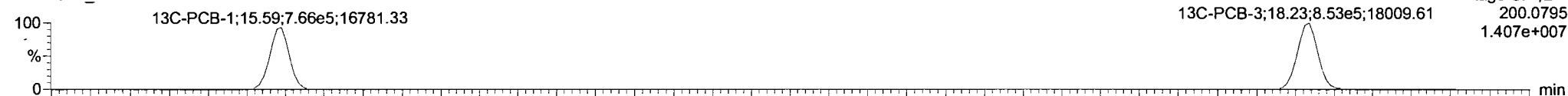


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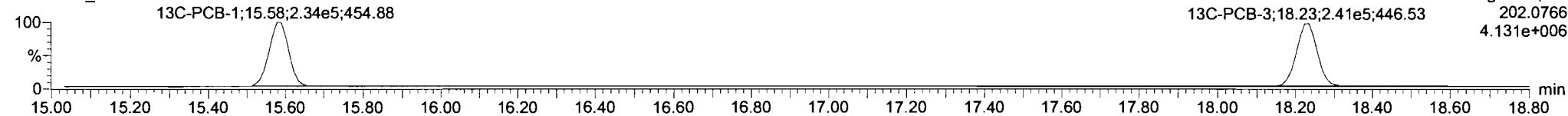


**13C-PCB-1**

201026K3\_12

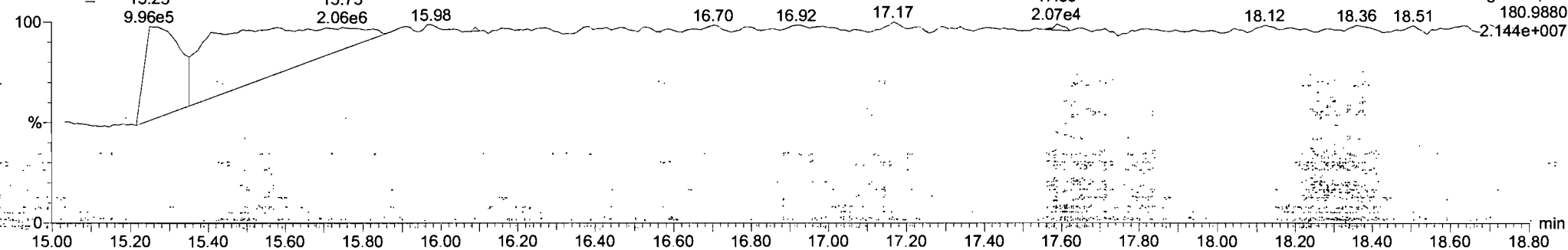


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**PFK1**

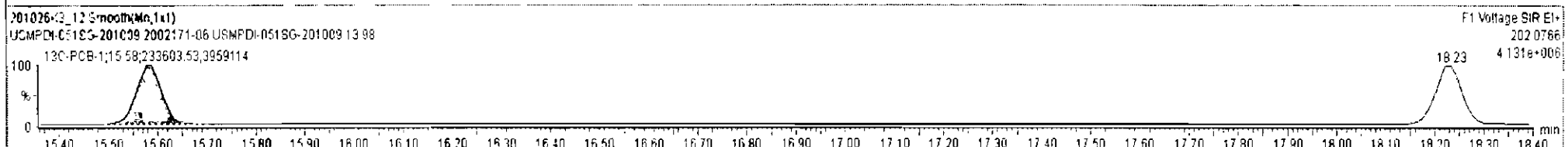
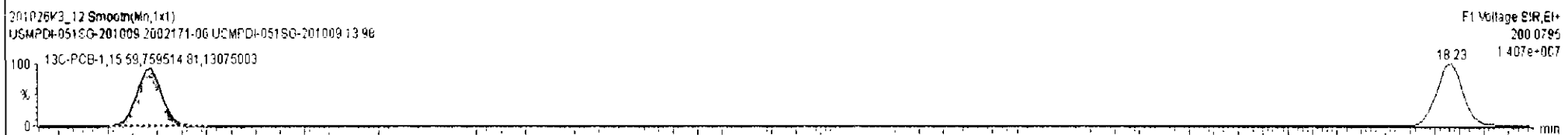
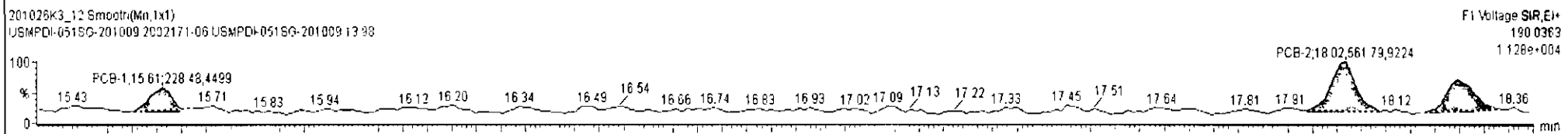
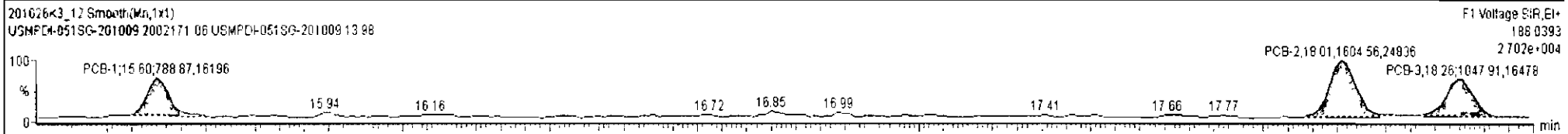
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201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13 98 - USMPDI-051SG-201009

#	Name	Resp	RA	nly	RRF	uMol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	32.70		4.03	38.47
226	226 2nd Function Tri-PCBs				1.0807	5.031	0.00		0.000		NO	21.00		2.65	27.48

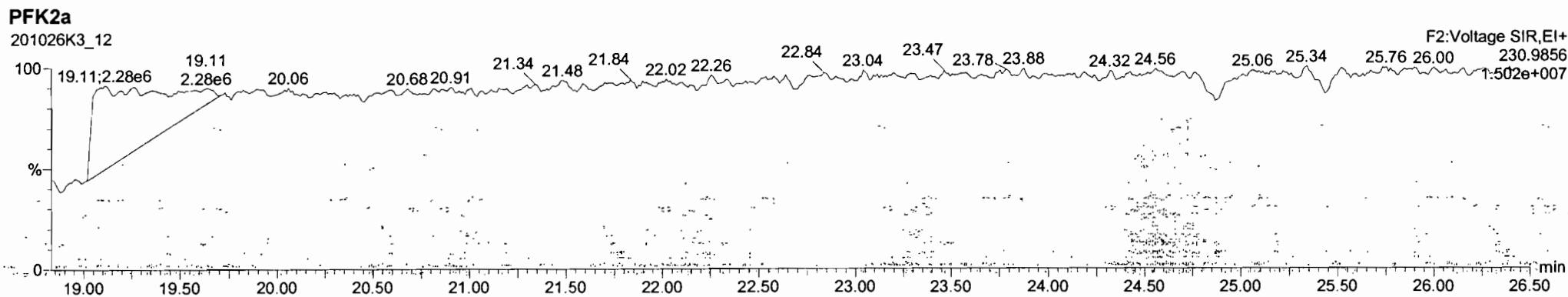
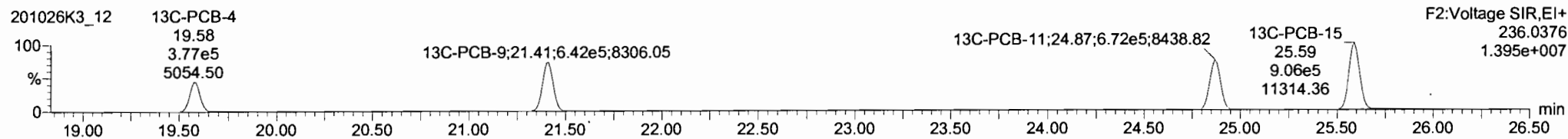
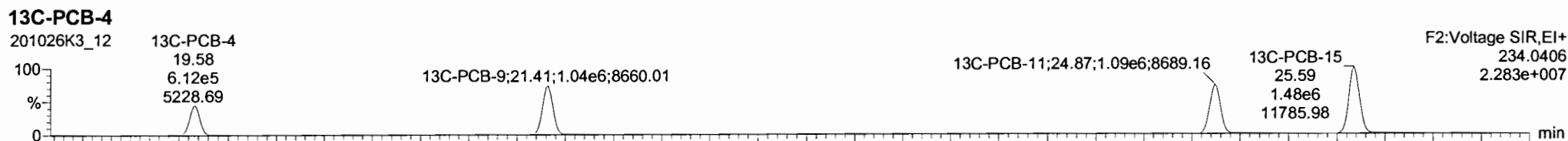
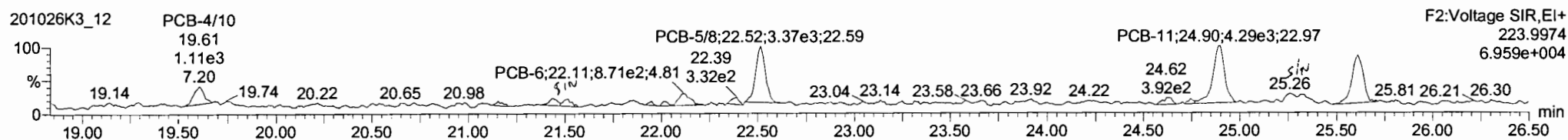
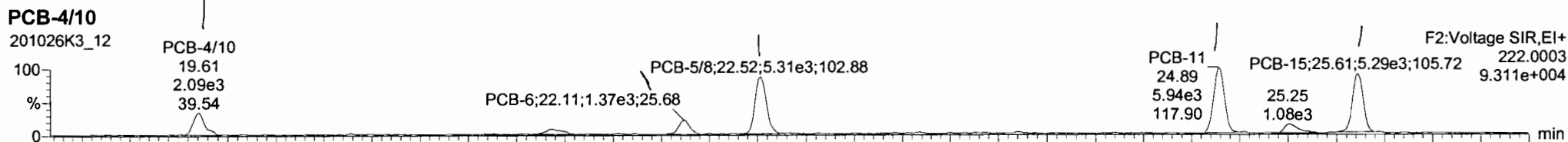
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc
1	1 PCB-1	15.60	15.60	7.889e2	2.285e2	3.130	3.45	NO	1.7429	1.7429
2	2 PCB 2	18.02	18.01	1.605e3	5.618e2	3.130	2.86	NO	3.3284	3.3284
3	3 PCB-3	16.25	16.26	1.048e3	3.824e2	3.130	2.74	NO	2.2636	2.2636



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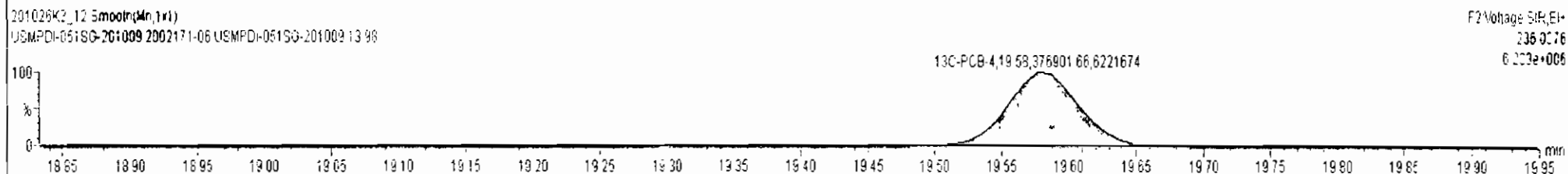
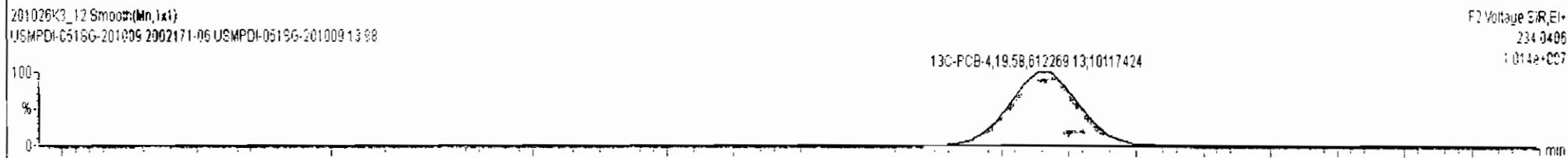
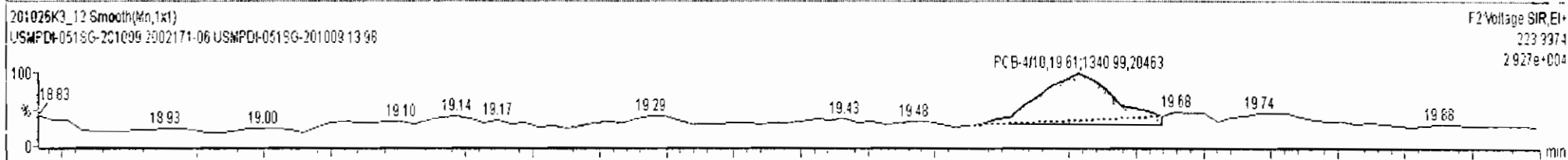
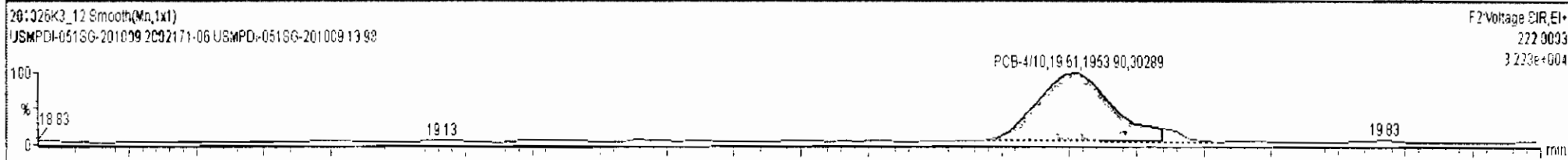
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201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0637	5.031	0.00		0.000		NO	39.01		4.03	39.45
226	226 2nd Function Tri-PCBs				1.0807	5.031	0.00		0.000		NO	21.00		2.65	27.48
227	227 2nd Function Tri-PCBs				0.0878	5.031	0.00		0.000		NO	55.75		5.68	60.69

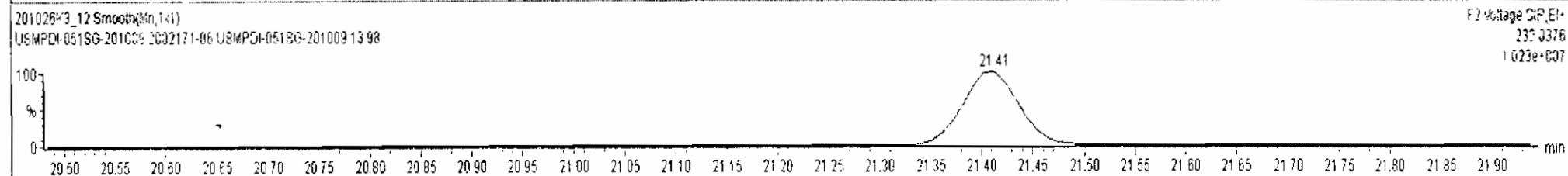
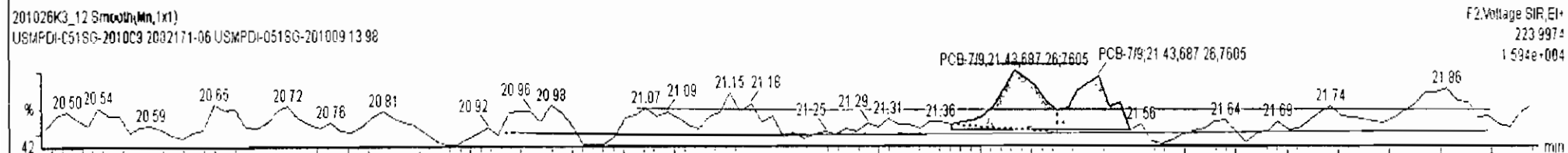
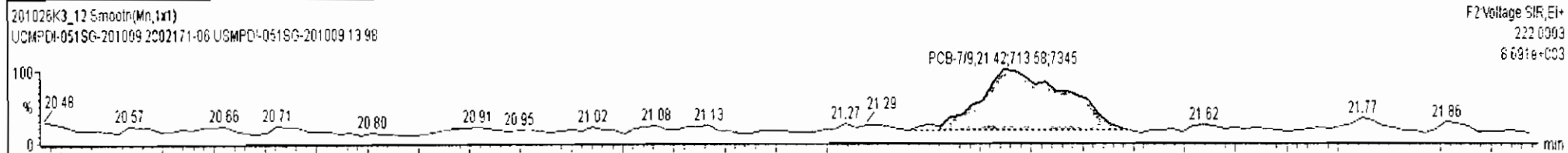
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	19.66	19.61	1.954e3	1.341e3	1.560	1.46	NO	5.3050	5.3050
2	5 PCB-7/9	21.47	21.42	7.136e2	9.354e2	1.560	0.76	YES	1.4382	0.00000
3	6 PCB-6	22.12	22.11	1.369e3	8.706e2	1.560	1.57	NO	2.5809	2.5809
4	7 PCB-5/8	22.53	22.52	5.311e3	3.367e3	1.560	1.58	NO	10.311	10.311
5	9 PCB-11	24.89	24.89	5.942e3	4.295e3	1.560	1.38	NO	10.257	10.257
6	11 PCB-15	25.61	25.61	5.287e3	3.474e3	1.560	1.52	NO	9.5539	9.5539



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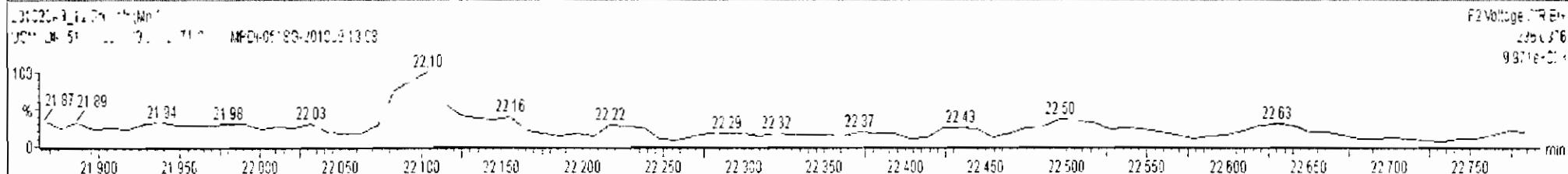
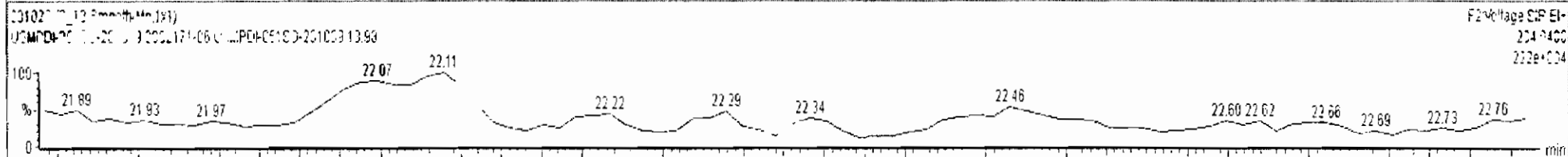
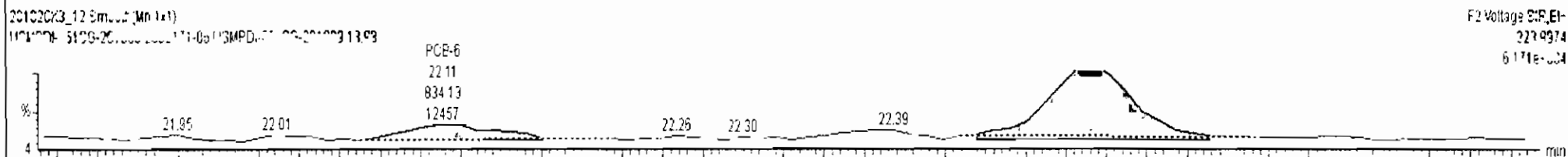
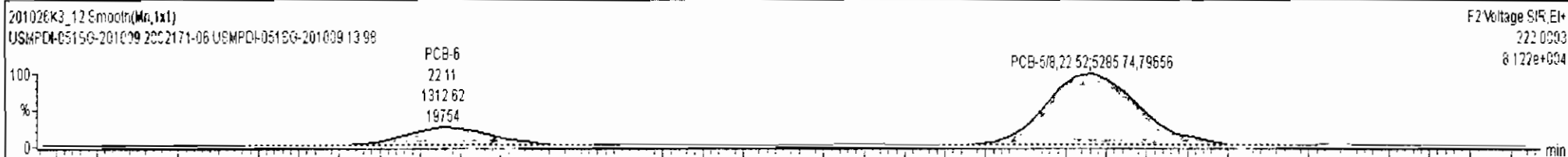
#	Name	Resp	RA	nly	RRF	wt/vol	Pred.RT	RT	Pred.RT	RRF	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1865	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	38.01		4.03	39.45
226	226 2nd Function Tri-PCBs				1.0807	5.031	0.00		0.000		NO	21.00		2.65	27.48
227	227 2nd Function Tetra-PCBs				0.0878	5.031	0.00		0.000		NO	55.75		5.66	67.83

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1	4 PCB-4/10	19.66	19.61	1.954e3	1.341e3	1.560	1.45	NO	5.3050	5.3050
2	5 PCB-7/9	21.47	21.42	7.136e2	6.873e2	1.560	1.04	YES	1.4362	0.00000
3	6 PCB-6	22.12	22.11	1.369e3	8.708e2	1.560	1.57	NO	2.5809	2.5809
4	7 PCB-5/8	22.53	22.52	5.311e3	3.367e3	1.560	1.58	NO	10.311	10.311
5	9 PCB-11	24.89	24.89	5.942e3	4.295e3	1.560	1.38	NO	10.257	10.257
6	11 PCB-15	25.81	25.81	5.287e3	3.474e3	1.560	1.52	NO	9.5539	9.5539



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	38.41		4.03	39.85
226	226 2nd Function Tri-PCBs				1.0607	5.031	0.00		0.000		NO	21.00		2.65	27.48
227	227 3rd Function Tri-PCBs				0.0816	5.031	0.00		0.000		NO	44.74		5.04	49.93

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	19.66	19.61	1.954e3	1.341e3	1.560	1.46	NO	5.3050	5.3050
2	5 PCB-7/8	21.47	21.42	7.136e2	6.673e2	1.560	1.04	YES	1.4382	0.00000
3	6 PCB-6	22.12	22.11	1.313e3	8.341e2	1.560	1.57	NO	2.4731	2.4731
4	7 PCB-5/6	22.53	22.52	5.286e3	3.623e3	1.560	1.38	NO	10.822	10.822
5	9 PCB-11	24.89	24.89	5.942e3	4.295e3	1.560	1.38	NO	10.257	10.257
6	11 PCB-15	25.61	25.61	5.287e3	3.474e3	1.560	1.52	NO	9.5539	9.5539

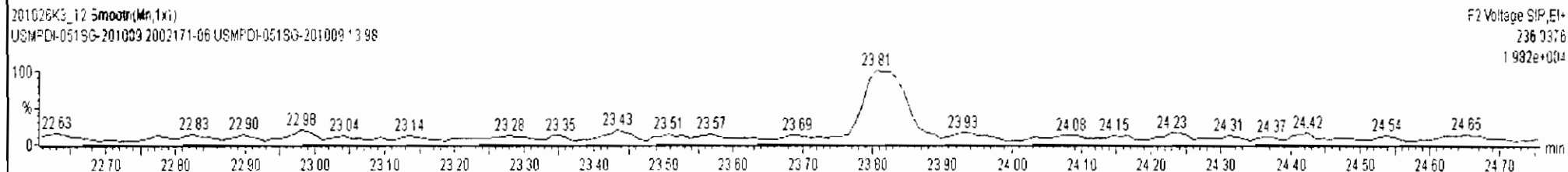
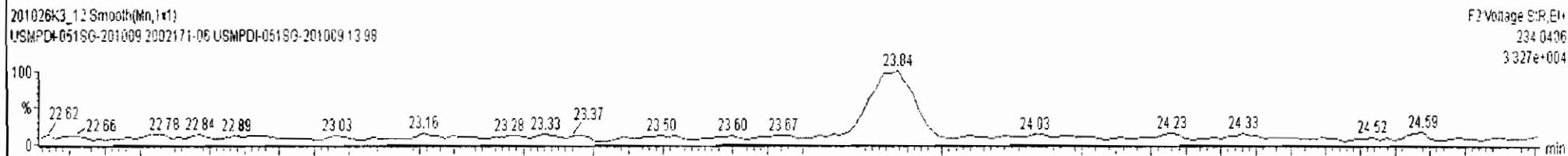
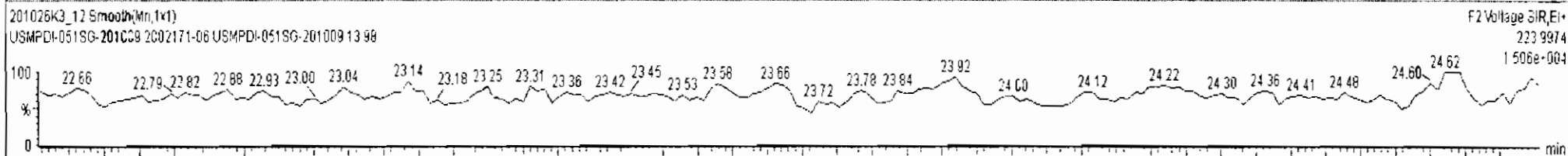
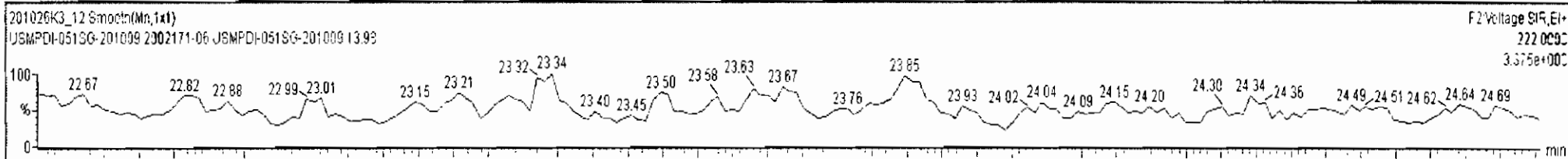




201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	38.41		4.03	39.85
226	226 2nd Function Tri-PCBs				1.0807	5.031	0.00		0.000		NO	21.00		2.65	27.48
227	227 3rd Function Tri-PCBs				0.9878	5.031	0.00		0.000		NO	55.75		5.06	57.52

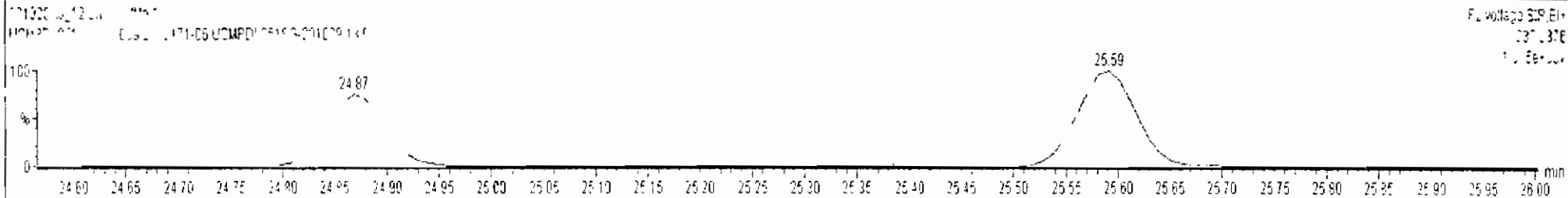
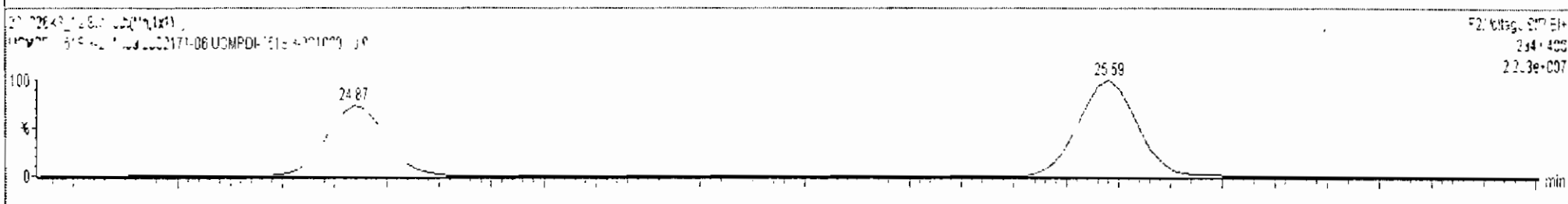
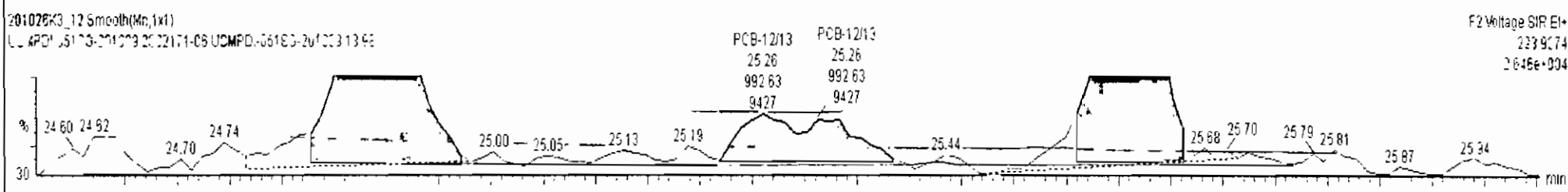
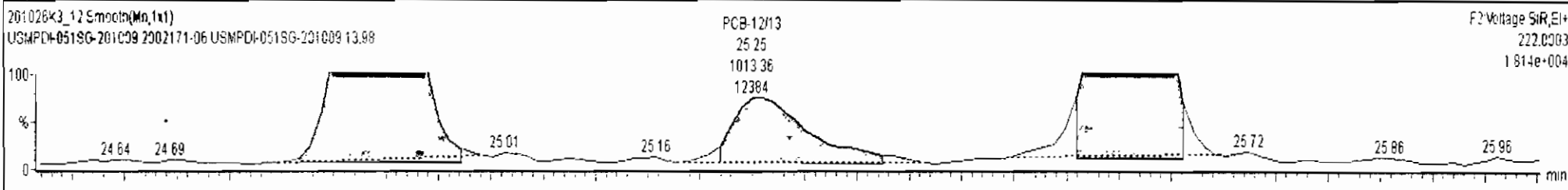
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	19.66	19.61	1.954e3	1.341e3	1.560	1.46	NO	5.3050	5.3050
2	5 PCB-7/9	21.47	21.42	7.136e2	6.873e2	1.560	1.04	YES	1.4362	0.00000
3	6 PCB-6	22.12	22.11	1.313e3	8.341e2	1.560	1.57	NO	2.4731	2.4731
4	7 PCB-5/8	22.53	22.52	5.286e3	3.623e3	1.560	1.38	NO	10.822	10.822
5	9 PCB-11	24.89	24.89	5.942e3	4.295e3	1.560	1.38	NO	10.257	10.257
6	11 PCB-15	25.61	25.61	5.287e3	3.474e3	1.560	1.52	NO	9.5539	9.5539



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	37.54		4.03	40.80
226	226 2nd Function Tri-PCBs				1.0807	5.031	0.00		0.000		NO	21.00		2.65	27.48

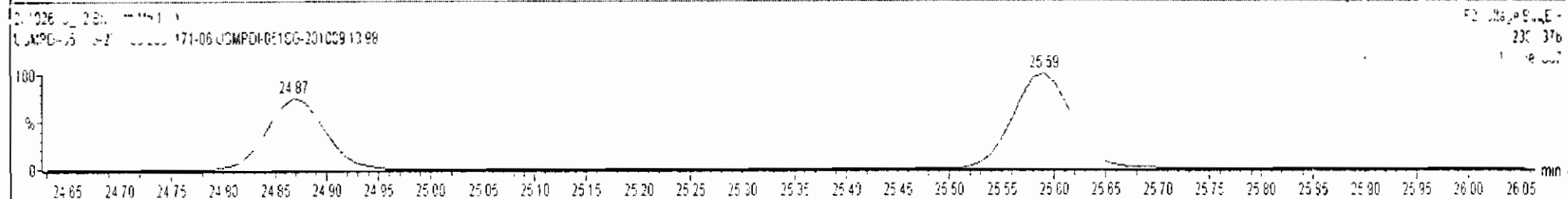
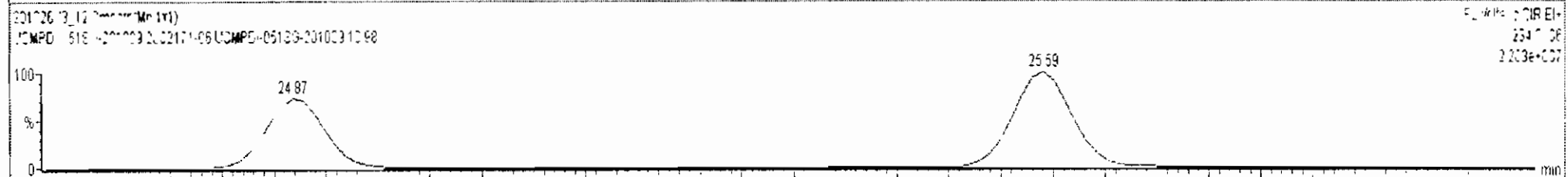
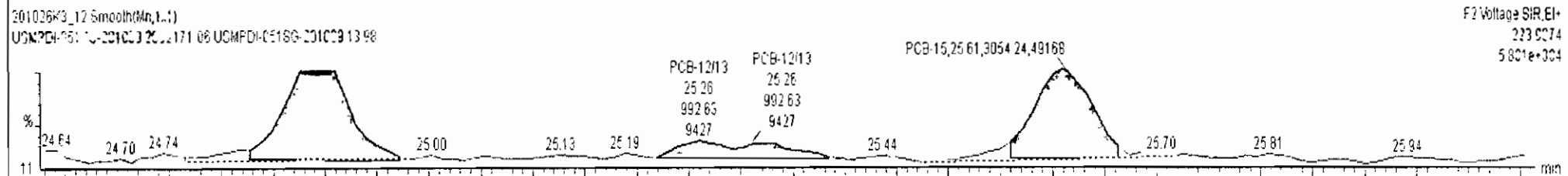
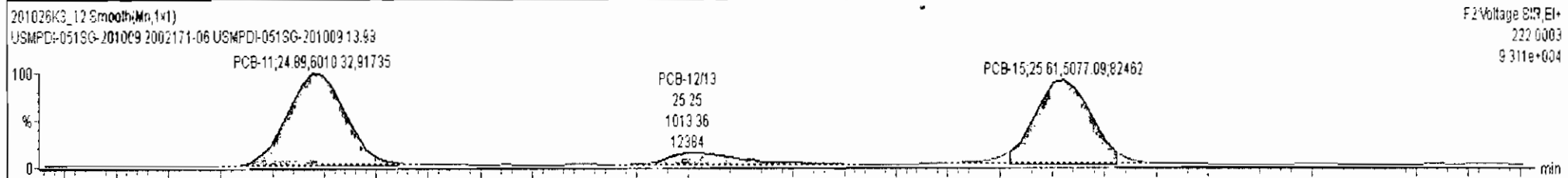
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	19.66	19.61	1.954e3	1.341e3	1.560	1.46	NO	5.3050	5.3050
2	5 PCB-7/B	21.47	21.42	7.136e2	6.873e2	1.560	1.04	YES	1.4382	0.00000
3	6 PCB-6	22.12	22.11	1.313e3	0.341e2	1.560	1.57	NO	2.4731	2.4731



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#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1865	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	37.54		4.03	40.80
226	226 2nd Function Tri-PCBs				1.0807	5.031	0.00		0.000		NO	21.00		2.65	27.48
227	227 3rd Function Tri-PCBs				0.0878	5.031	0.00		0.000		NO	45.75		5.05	47.62

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	4 PCB-4/10	19.66	19.61	1.954e3	1.341e3	1.560	1.46	NO	5.3050	5.3050
2	5 PCB-7/9	21.47	21.42	7.136e2	6.673e2	1.560	1.04	YES	1.4362	0.00000
3	6 PCB-6	22.12	22.11	1.313e3	8.341e2	1.560	1.57	NO	2.4731	2.4731

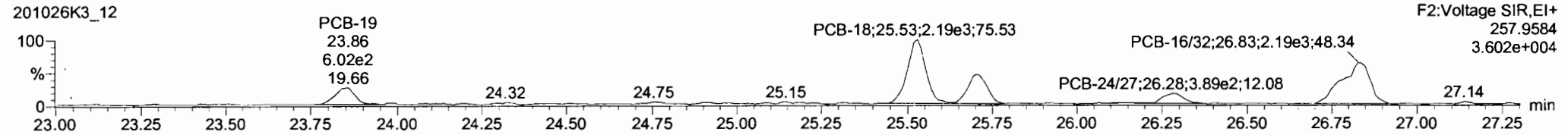
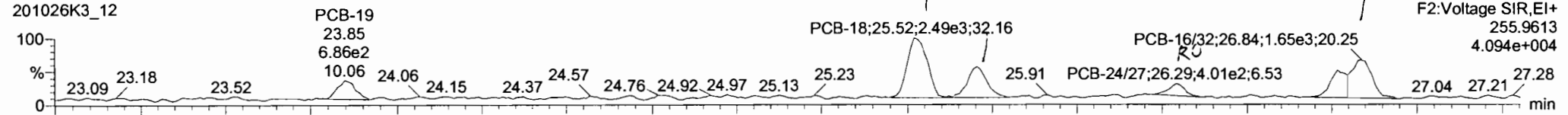


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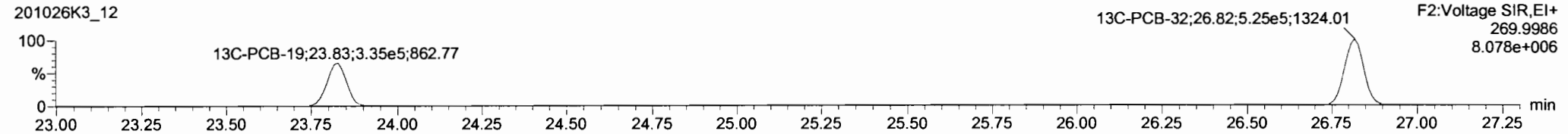
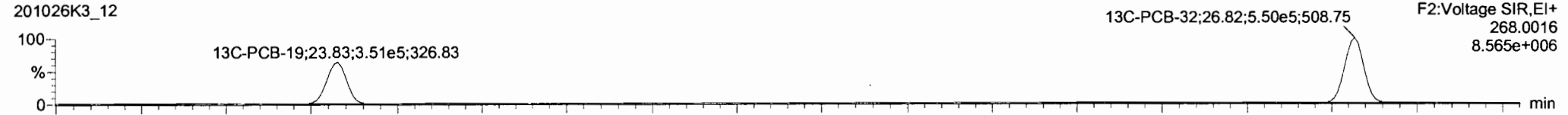
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Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

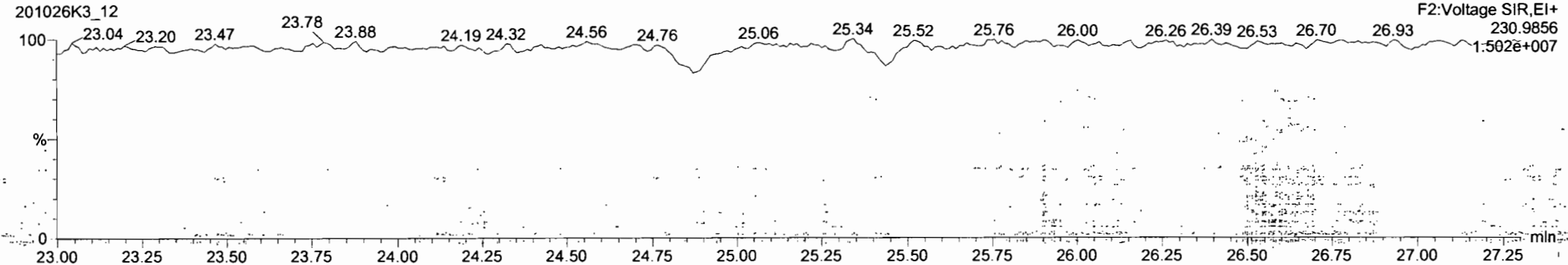
**PCB-19**



**13C-PCB-19**



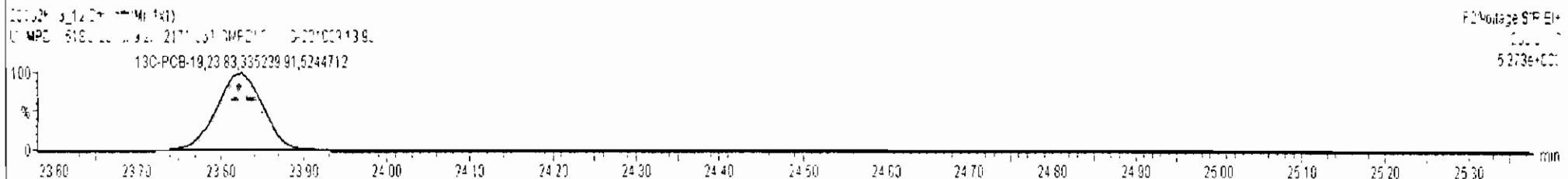
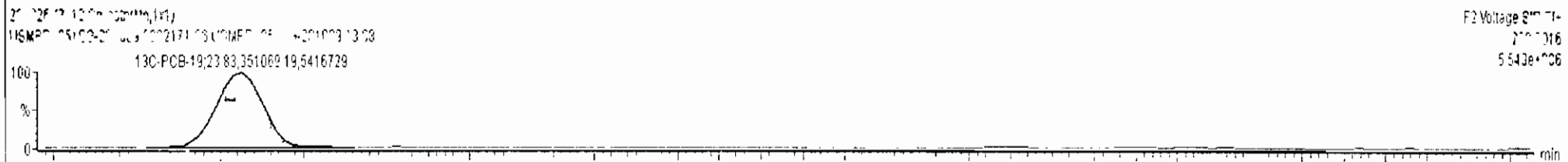
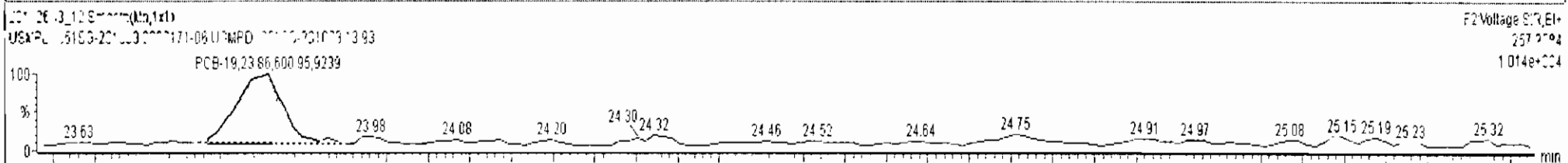
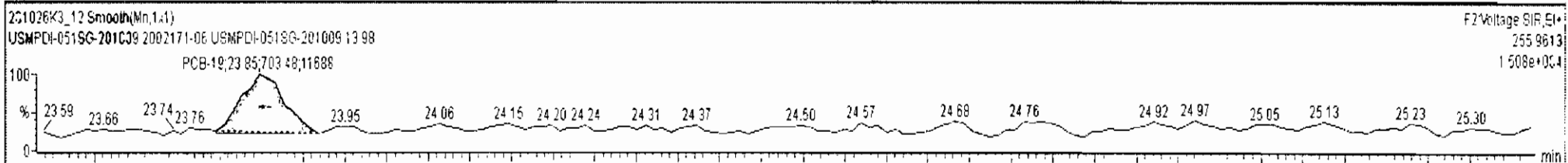
**PFK2b**

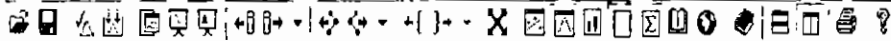


201026K3\_12 - 2002171-06 USMPDI-051SG-201009-13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wVol	Pred.RT	RT	Pred.R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1885	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	37.54		4.03	37.54
226	226 2nd Function Tri-PCBs				1.0807	5.031	0.00		0.000		NO	29.01		2.65	30.41
227	227 3rd Function Tri-PCBs				0.9979	5.031	0.00		0.000		NO	45.75		5.95	62.92

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	12 PCB-19	23.86	23.85	7.035e2	6.009e2	1.040	1.17	NO	3.4151	3.4151
2	14 PCB-18	25.53	25.52	2.491e3	2.194e3	1.040	1.14	NO	10.598	10.598
3	15 PCB-17	25.71	25.70	1.263e3	1.066e3	1.040	1.18	NO	5.6818	5.6818
4	16 PCB-24/27	26.31	26.29	4.992e2	4.003e2	1.040	1.25	YES	1.3960	0.0000
5	17 PCB-16/32	26.64	26.64	2.508e3	2.152e3	1.040	1.17	NO	9.3145	9.3145

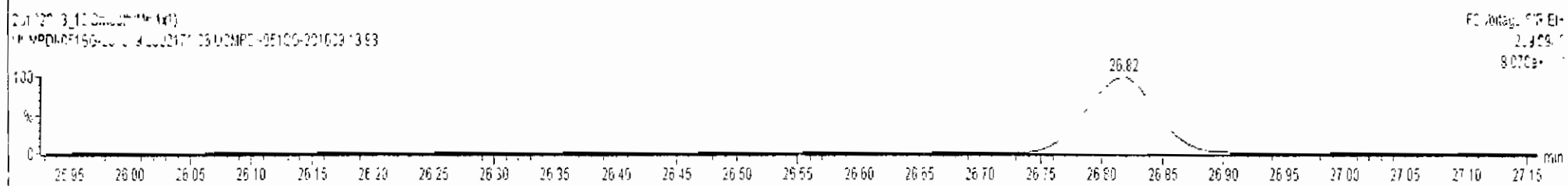
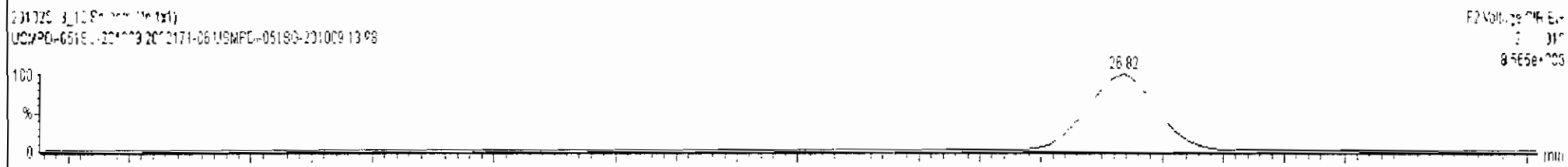
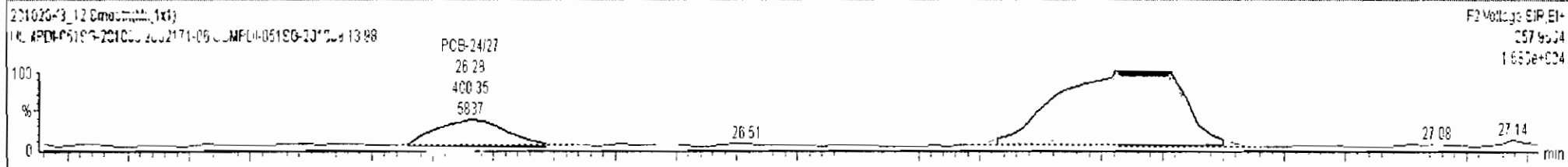
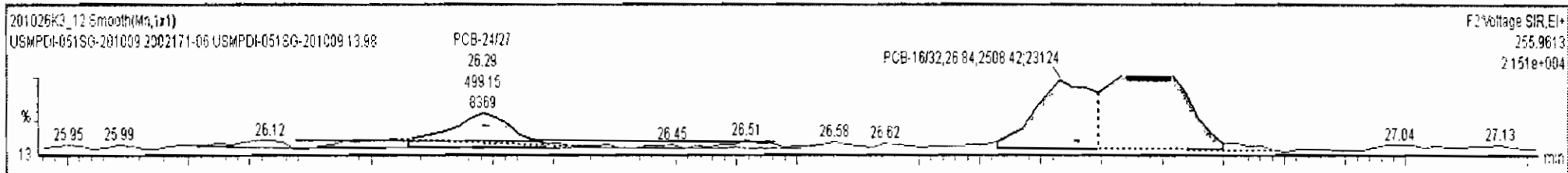




201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wt/mol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1665	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	37.54		4.03	37.54
226	2nd Function Tri-PCBs				1.0607	5.031	0.00		0.000		NO	25.59		2.65	30.03
227	3rd Function Tri-PCBs				0.9828	5.031	0.00		0.000		NO	45.74		5.66	61.02

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	12 PCB-19	23.86	23.85	7.035e2	5.699e2	1.040	1.23	YES	3.0440	0.00000
2	14 PCB-18	25.53	25.52	2.491e3	2.194e3	1.040	1.14	NO	10.598	10.598
3	15 PCB-17	25.71	25.70	1.263e3	1.066e3	1.040	1.18	NO	5.6818	5.6818
4	16 PCB-24/27	26.31	26.29	4.992e2	4.003e2	1.040	1.25	YES	1.3960	0.00000
5	17 PCB-16/32	26.84	26.84	2.508e3	2.152e3	1.040	1.17	NO	9.3145	9.3145

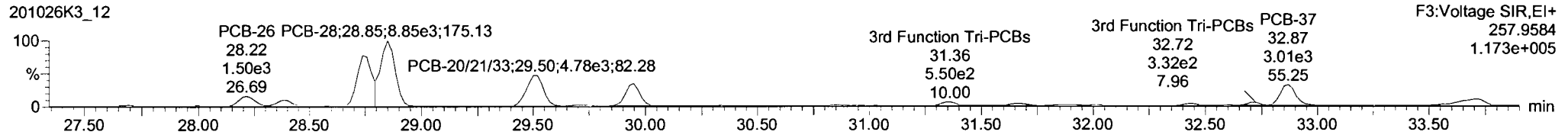
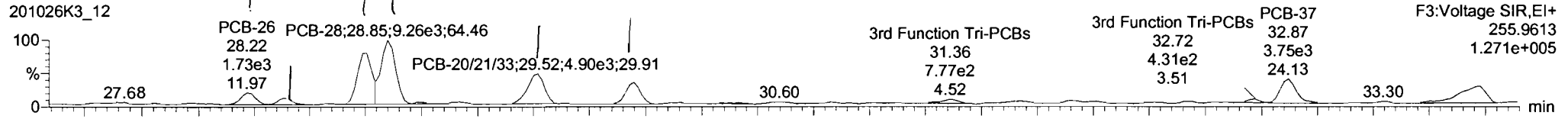


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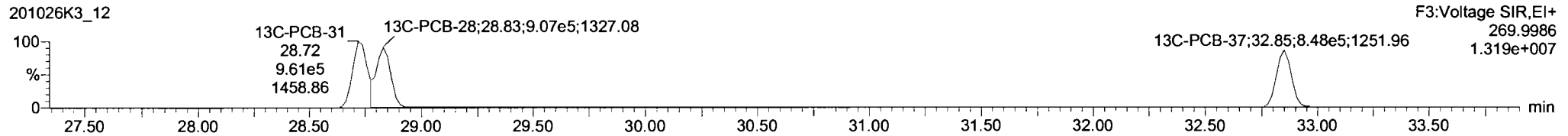
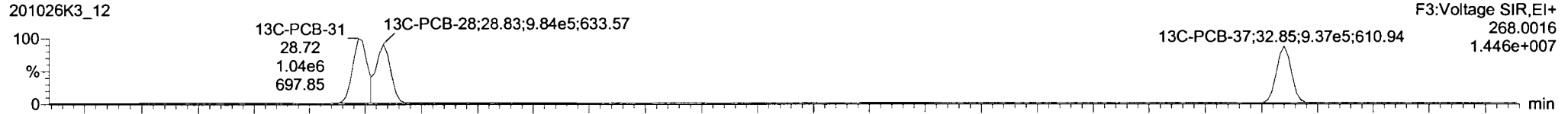
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

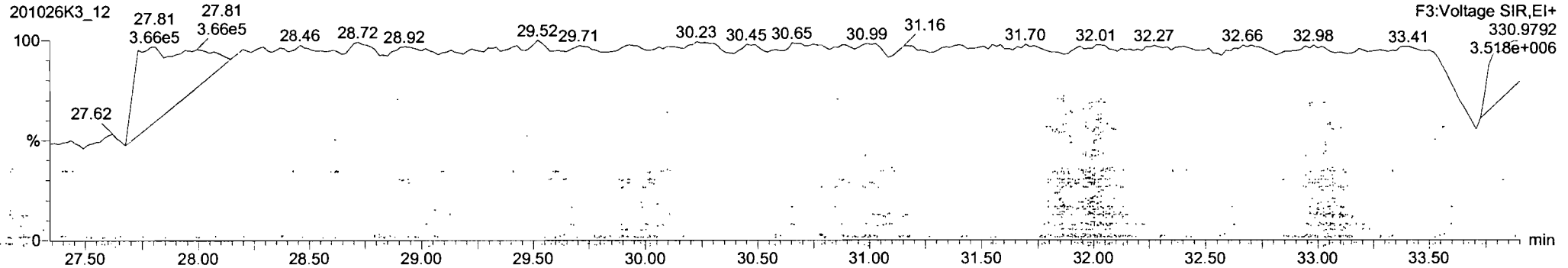
**PCB-34**



**13C-PCB-28**



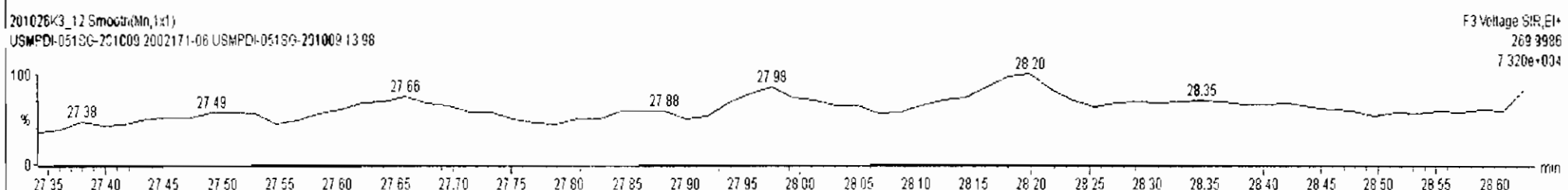
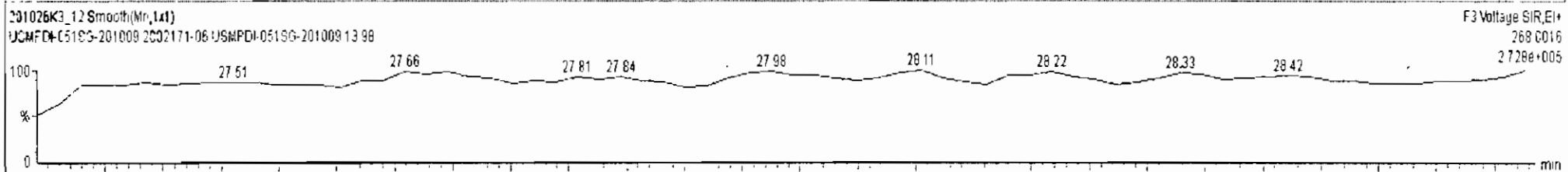
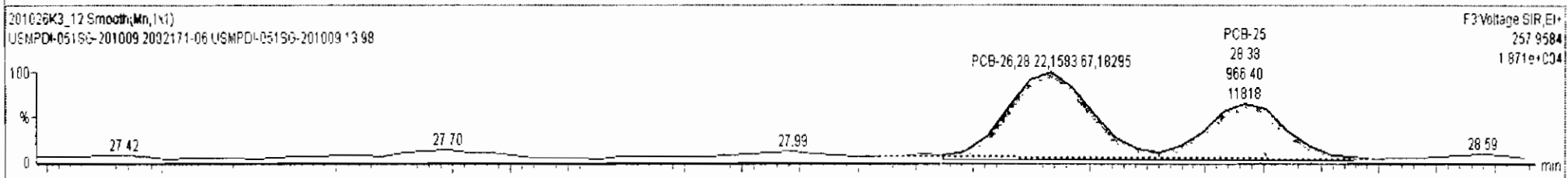
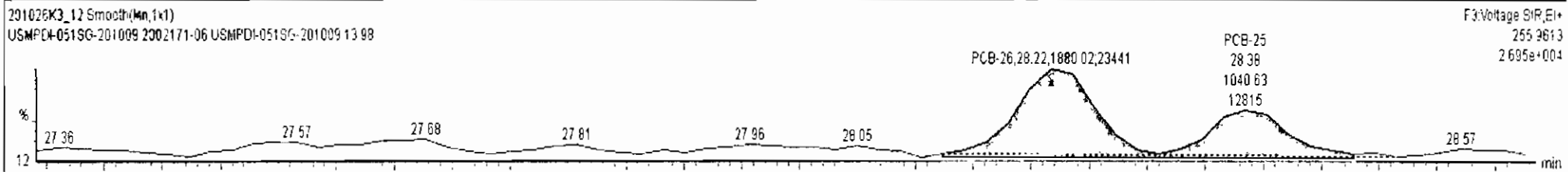
**PFK3d**



201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13 98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wtVd	Pred RT	RT	Pred R...	RRT	RRT Fai	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	37.54		4.03	37.54
226	226 2nd Function Tri-PCBs				1.0807	5.031	0.00		0.000		NO	29.01		2.65	30.41
227	227 3rd Function Tri-PCBs				0.9878	5.031	0.00		0.000		NO	58.15		5.06	62.03

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	21 PCB-26	28.22	28.22	1.880e3	1.584e3	1.040	1.19	NO	3.8570	3.8570
2	22 PCB-25	28.37	28.38	1.041e3	9.664e2	1.040	1.08	NO	2.2209	2.2209
3	23 PCB-31	28.75	28.76	7.256e3	6.731e3	1.040	1.08	NO	14.187	14.187

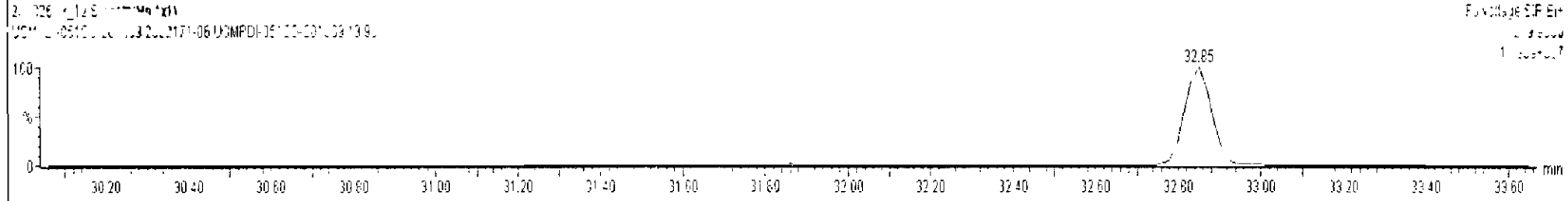
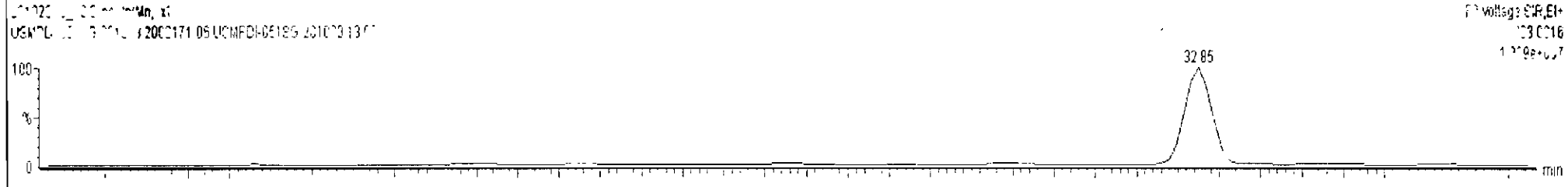
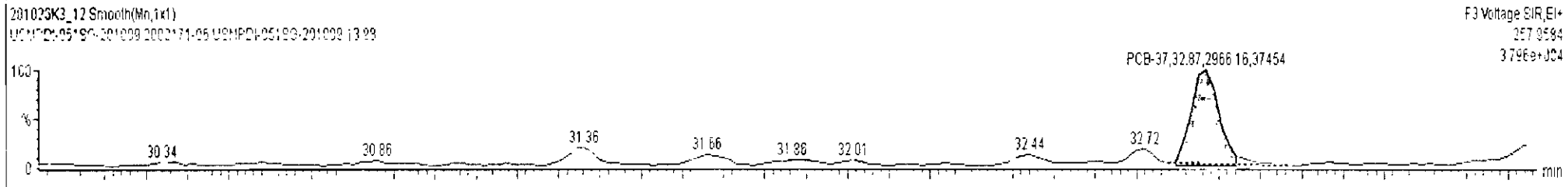
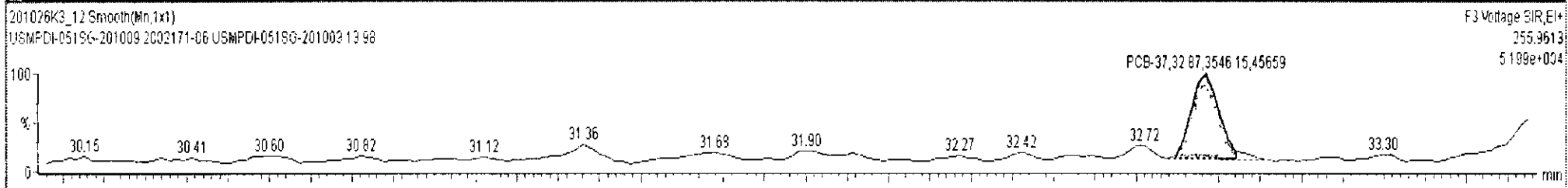




201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	nY	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.031	0.00		0.000		NO	7.335		0.849	7.335
225	225 Total Di-PCBs				1.0537	5.031	0.00		0.000		NO	37.54		4.03	37.54
226	226 2nd Function Tri-PCBs				1.0607	5.031	0.00		0.000		NO	29.01		2.65	30.41
227	227 3rd Function Tri-PCBs				0.9828	5.031	0.00		0.000		NO	63.33		5.96	63.33

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	nY	EMPC	Conc.
7	31 PCB-37	32.87	32.87	3.546e3	2.966e3	1.040	1.20	NO	7.1862	7.1862



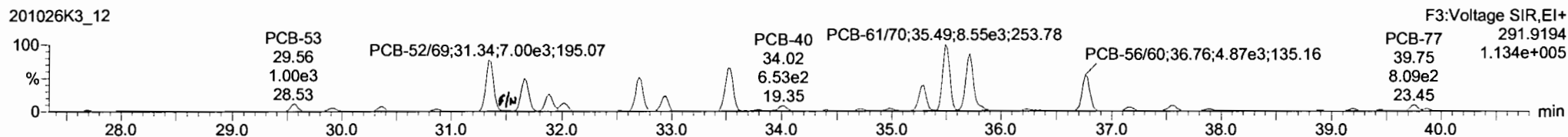
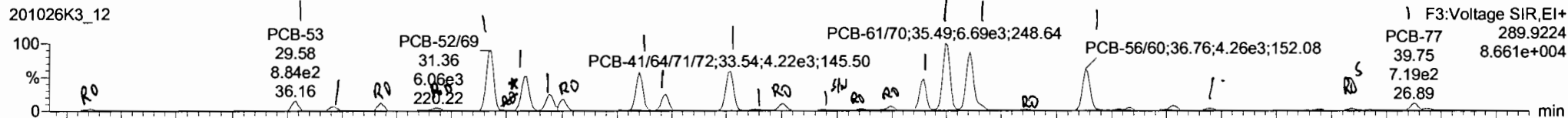
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

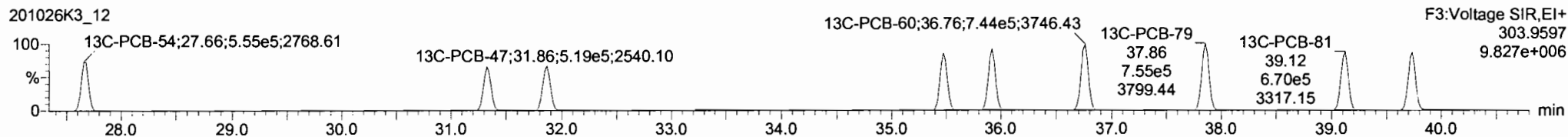
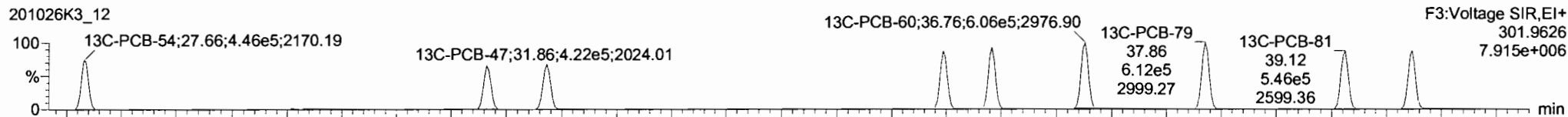
July 11-05-2020

Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

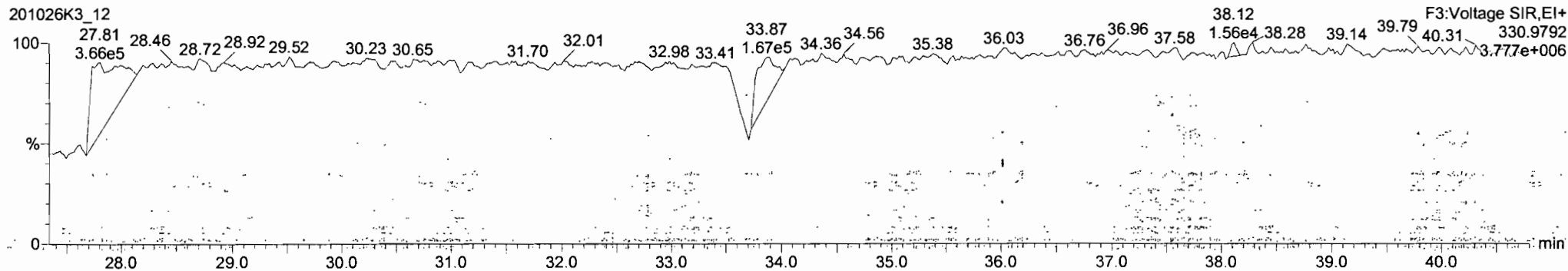
PCB-54



13C-PCB-54



PFK3a



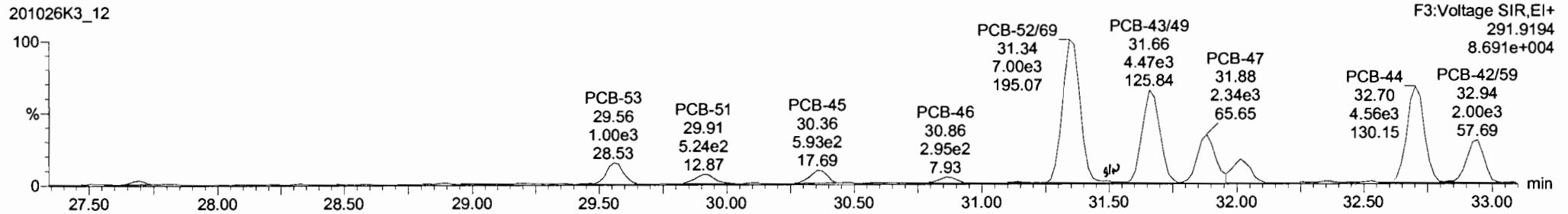
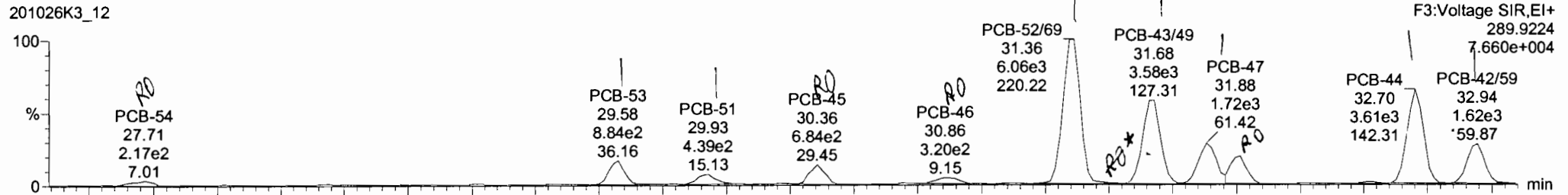
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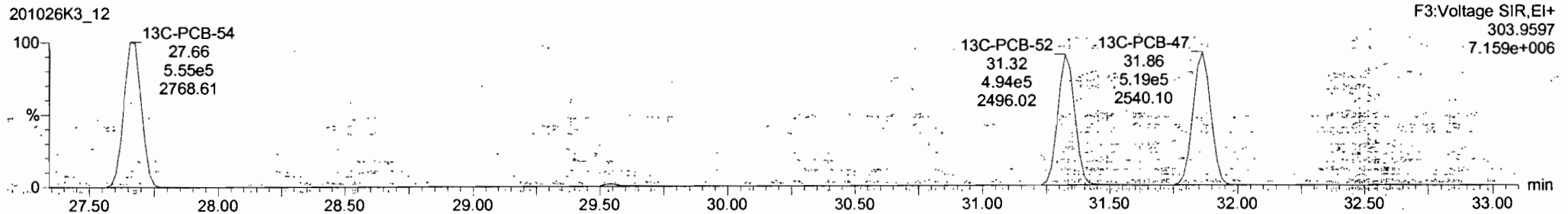
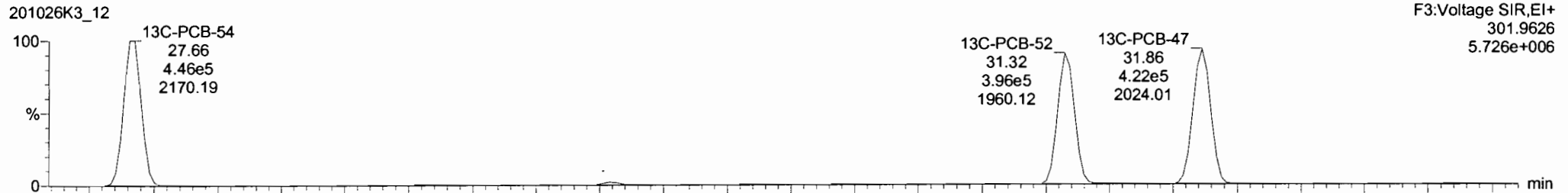
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Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

PCB-50



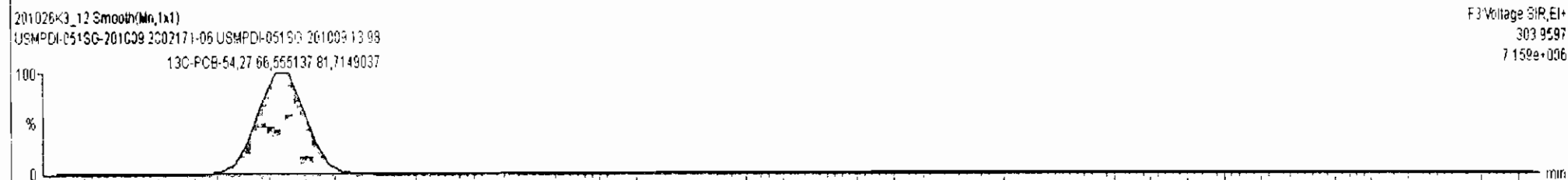
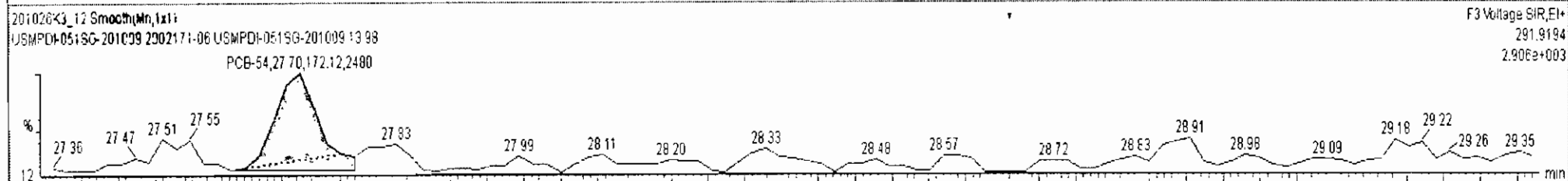
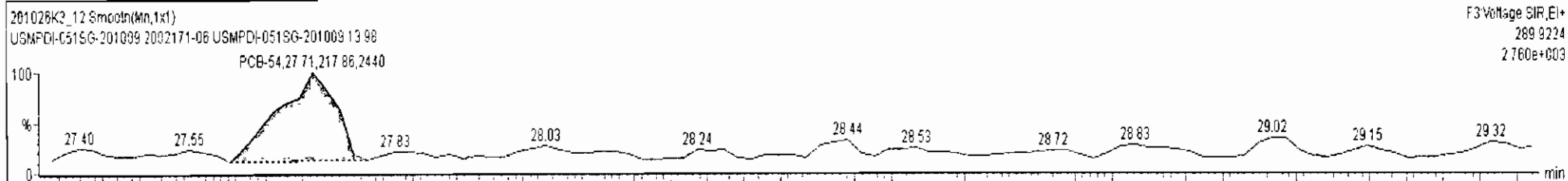
13C-PCB-52



201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R ..	RRT	PRT Fail	Conc.	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.0		7.26	194.3
229	3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	292.3		11.4	298.3
230	4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.65		1.47	18.02
231	3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.78

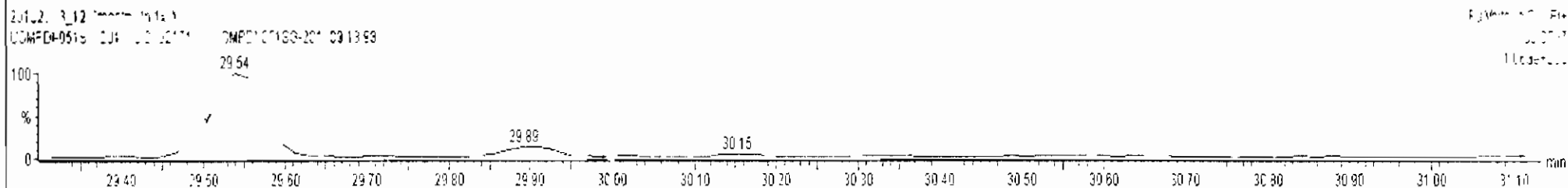
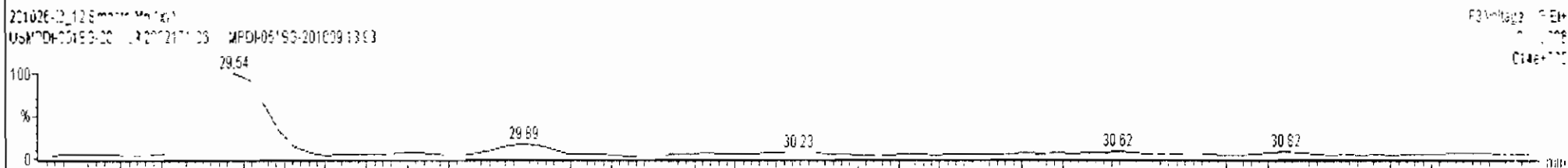
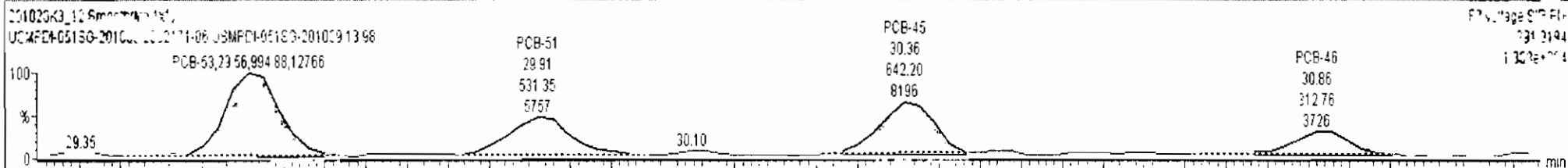
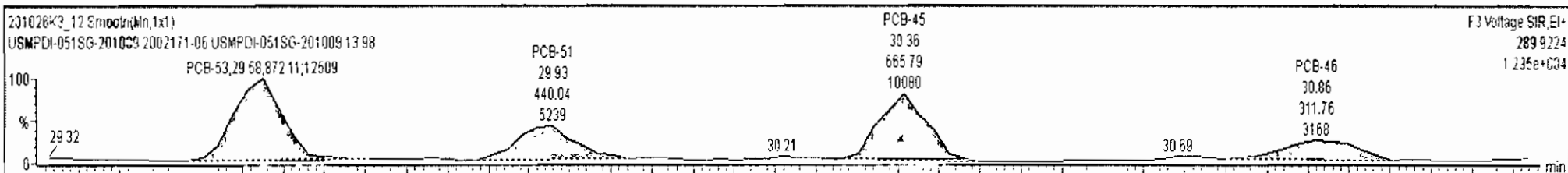
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc
1	PCB-54	27.68	27.71	2.179e2	1.721e2	0.770	1.27	YES	0.56031	0.00000



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.0		7.26	194.6
229	3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	292.3		11.4	293.3
230	4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.65		1.47	18.02
231	3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.76

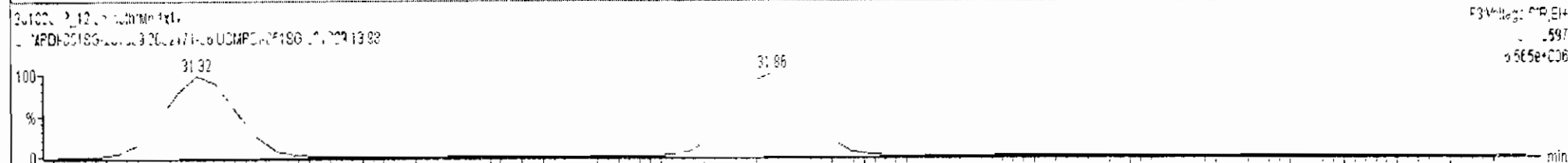
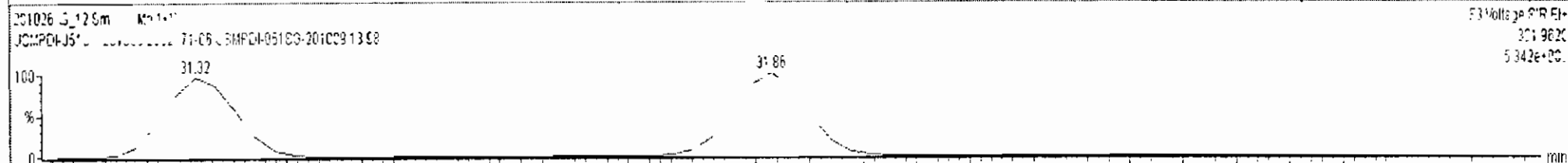
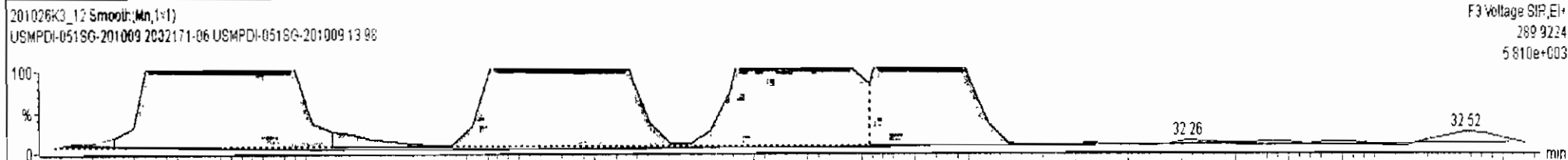
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
2	PCB-53	29.56	29.58	8.721e2	9.949e2	0.770	0.88	NO	4.1836	4.1836
3	PCB-51	29.92	29.93	4.400e2	5.314e2	0.770	0.83	NO	2.0368	2.0368
4	PCB-45	30.36	30.36	6.658e2	6.422e2	0.770	1.04	YES	2.9575	0.00000
5	PCB-46	30.66	30.86	3.118e2	3.128e2	0.770	1.00	YES	1.4884	0.00000



201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.RT	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	176.7		7.25	194.5
229	3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	292.3		11.4	299.3
230	4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.65		1.47	18.02
231	3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.78

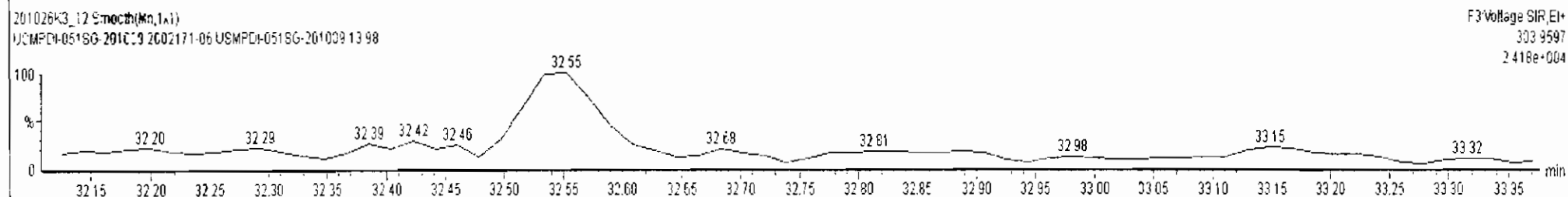
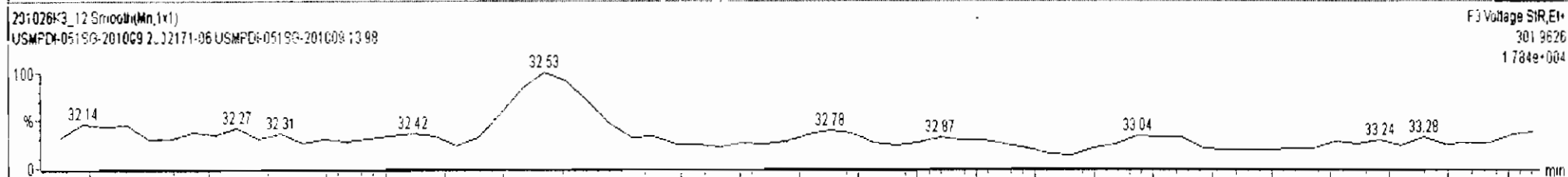
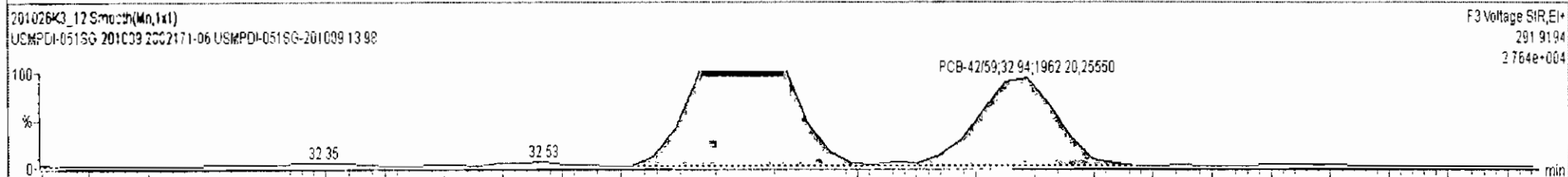
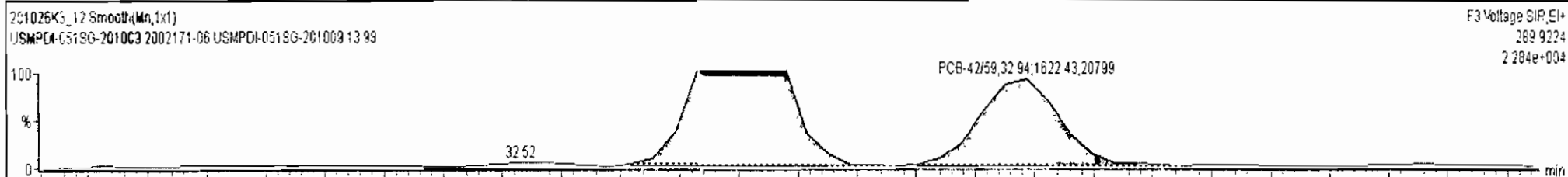
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	nly	EMPC	Conc
6	38 PCB-52/69	31.36	31.36	5.997e3	6.906e3	0.770	0.87	NO	24.704	24.704
7	39 PCB-73	31.48	31.45	4.583e1	9.596e1	0.770	0.48	YES	0.16305	0.00000
8	40 PCB-43/49	31.65	31.68	3.580e3	4.487e3	0.770	0.80	NO	17.687	17.687
9	41 PCB-47	31.88	31.88	1.724e3	2.339e3	0.770	0.74	NO	9.3153	9.3153
10	42 PCB-48/54	32.00	32.01	1.047e3	1.169e3	0.770	0.90	YES	3.9440	0.00000



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#	Name	Resp	RA	nly	RF	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	176.7		7.26	194.5
229	3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	292.3		11.4	288.3
230	4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.65		1.47	18.02
231	3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	66.78

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
11	PCB-44	32.70	32.70	3.661e3	4.543e3	0.770	0.81	NO	21.039	21.039
12	PCB-42/59	32.93	32.94	1.622e3	1.962e3	0.770	0.83	NO	7.2175	7.2175

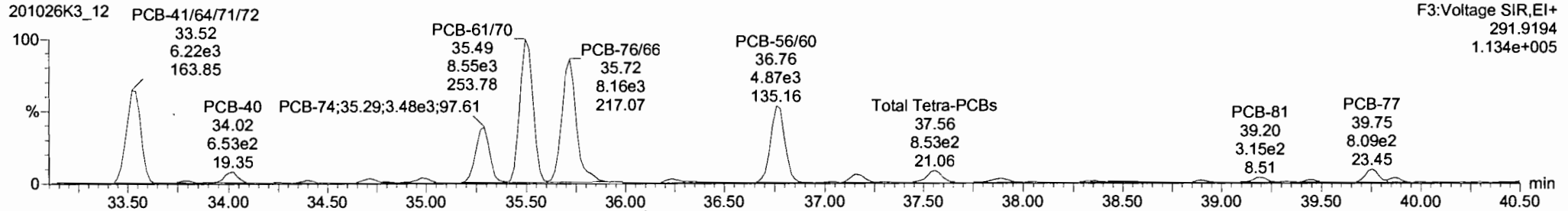
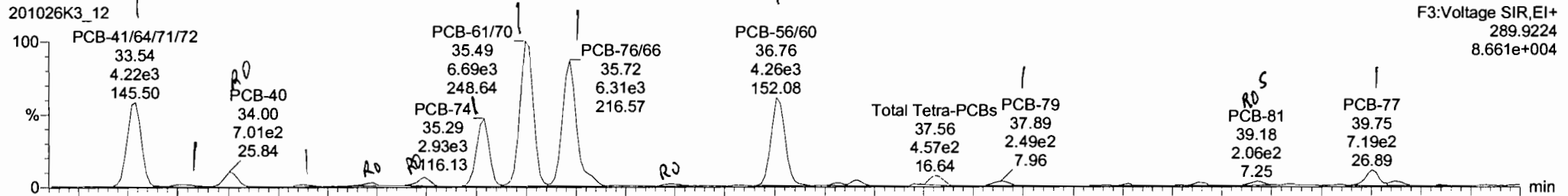


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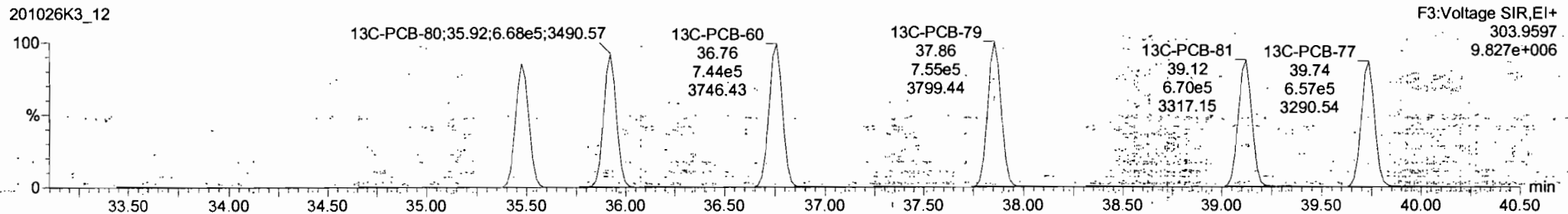
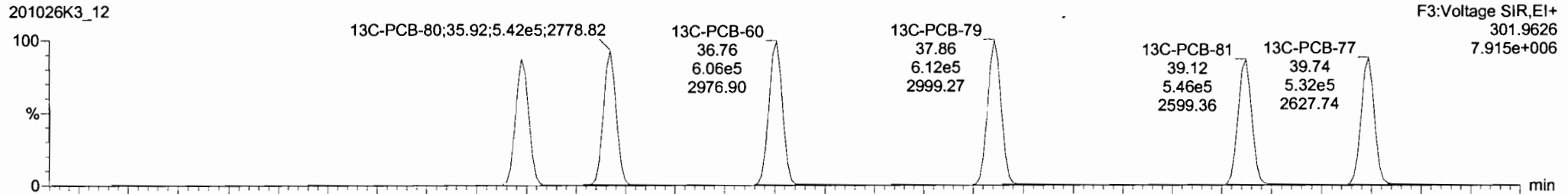
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Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

**PCB-68**



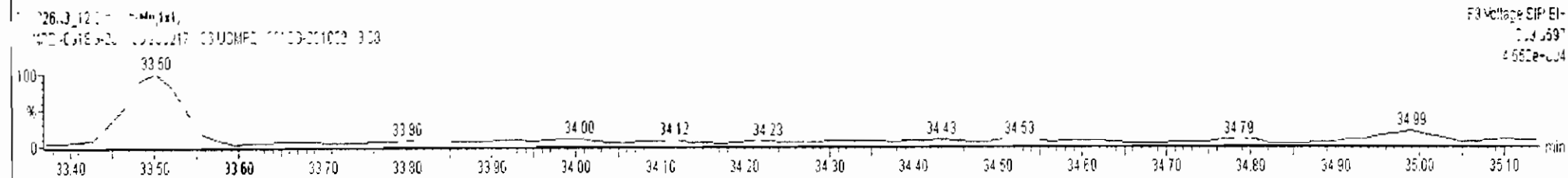
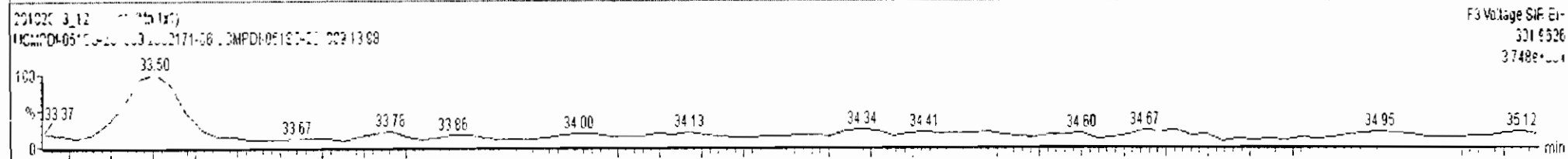
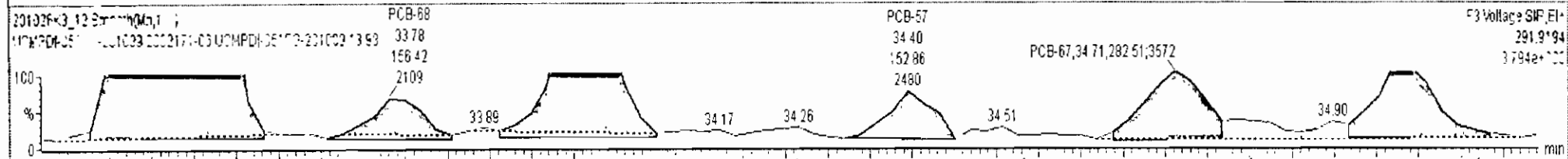
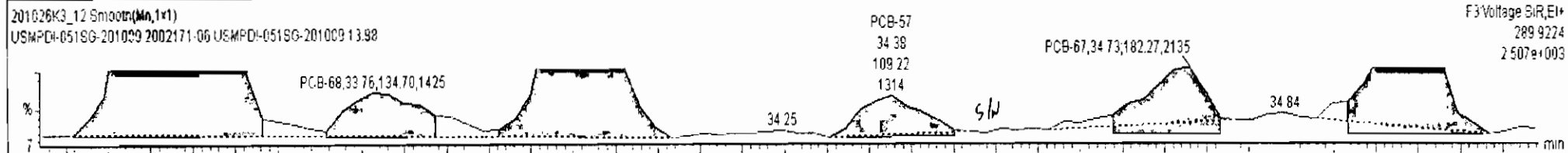
**13C-PCB-60**





#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.031	0.00				NO	177.2		7.26	194.9
229	3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	292.3		11.4	298.3
230	4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.65		1.47	18.02
231	3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.76

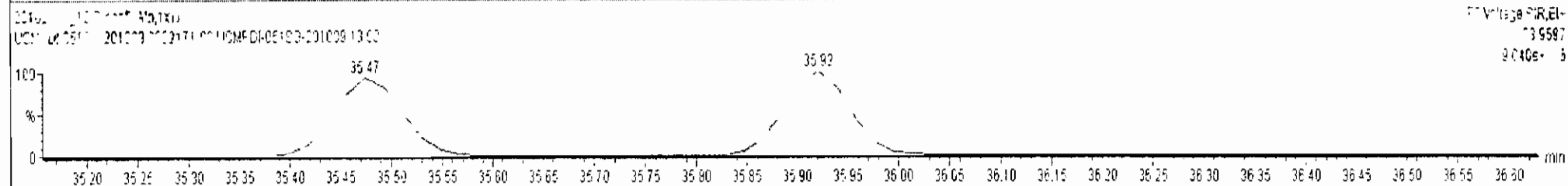
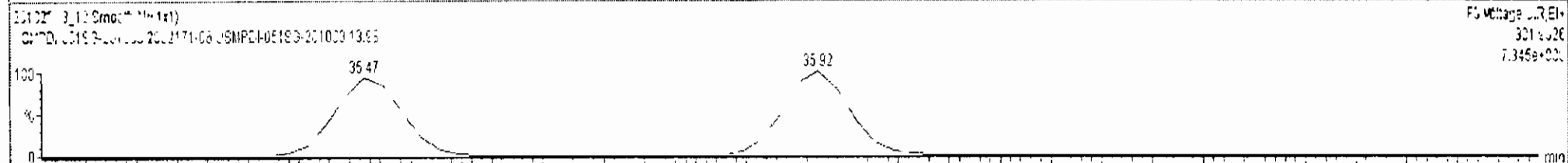
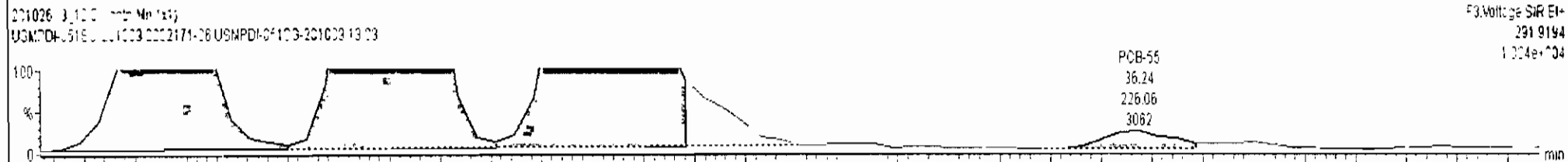
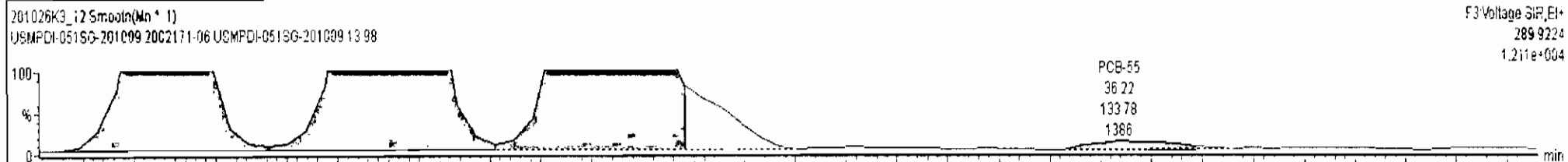
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	nly	EMPC	Conc
13	FCB-41,64/71/72	33.54	33.54	4.191e3	6.233e3	0.770	0.67	NO	18.555	18.555
14	PCB-88	33.80	33.76	1.347e2	1.564e2	0.770	0.86	NO	0.48151	0.48151
15	PCB-40	34.02	34.00	6.962e2	7.037e2	0.770	0.99	YES	4.3727	0.00000
16	PCB-57	34.38	34.38	1.092e2	1.529e2	0.770	0.71	NO	0.36536	0.36536
17	PCB-67	34.69	34.73	1.623e2	2.825e2	0.770	0.65	YES	0.66089	0.00000
18	PCB-63	34.97	34.99	4.129e2	3.162e2	0.770	1.30	YES	0.89845	0.00000



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	175.9		7.26	193.7
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	292.3		11.4	299.3
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.65		1.47	18.02
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.78

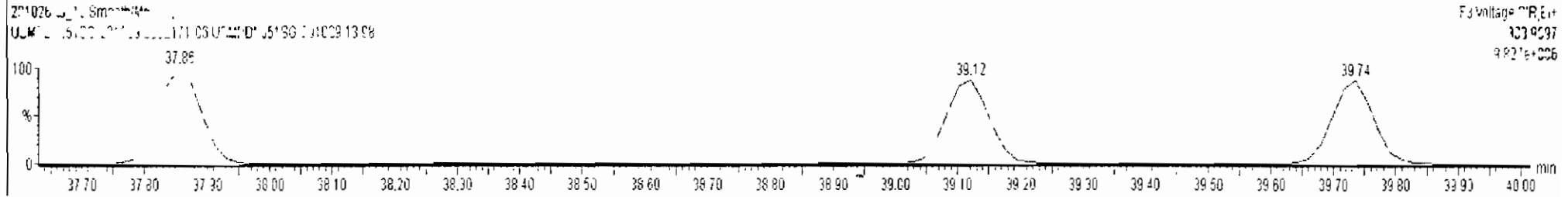
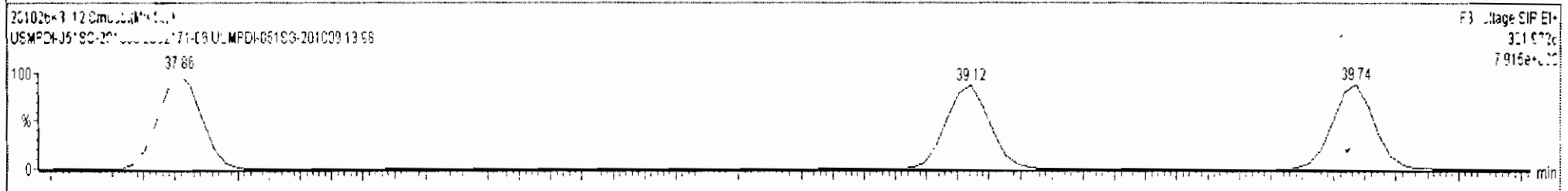
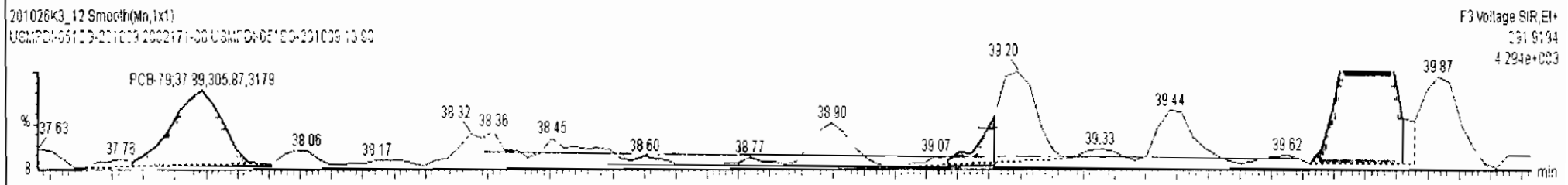
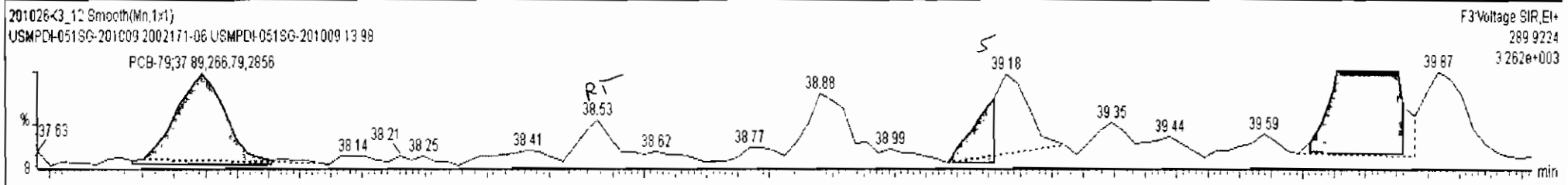
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
19	54 PCB-74	35.28	35.29	2.927e3	3.479e3	0.770	0.84	NO	9.2446	9.2446
20	55 PCB-61/70	35.49	35.49	6.690e3	8.570e3	0.770	0.78	NO	24.753	24.753
21	56 PCB-76/66	35.68	35.72	5.858e3	7.730e3	0.770	0.76	NO	19.953	19.953
22	58 PCB-55	36.28	36.22	1.338e2	2.261e2	0.770	0.59	YES	0.43236	0.00000



201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	192.7
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	299.1		11.4	304.6
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	18.24		1.47	18.24
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.33		4.77	87.32

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
24	62 PCB-81	39.14	39.16	7.531e1	6.210e1	0.770	1.21	YES	0.17171	0.00000
25	63 PCB-77	39.76	39.76	6.812e2	7.756e2	0.770	0.68	NO	2.1428	2.1428



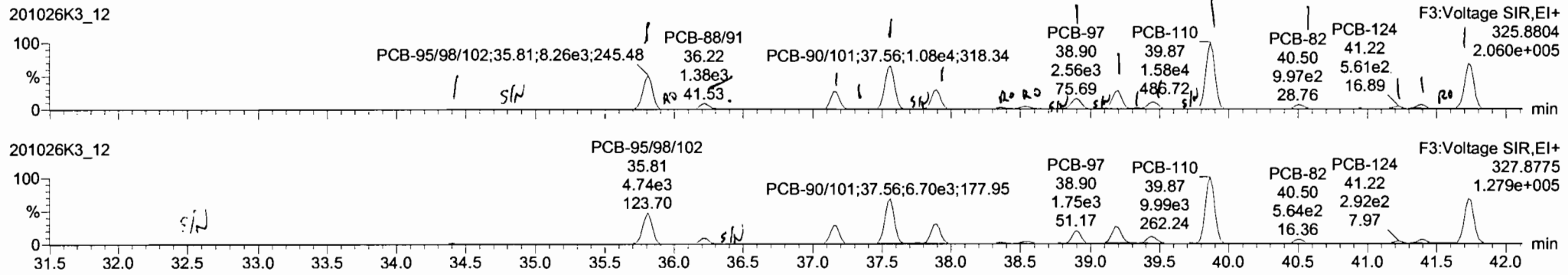
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

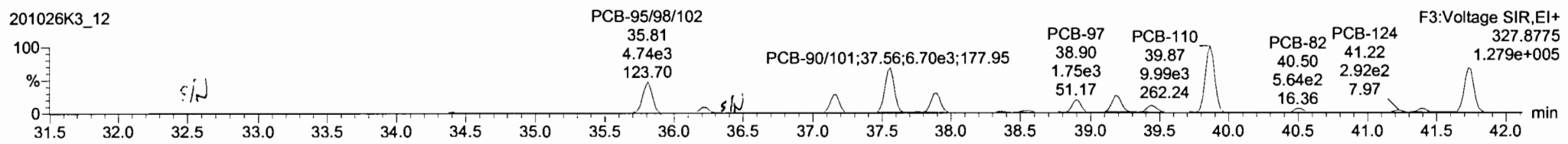
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**PCB-104**

201026K3\_12

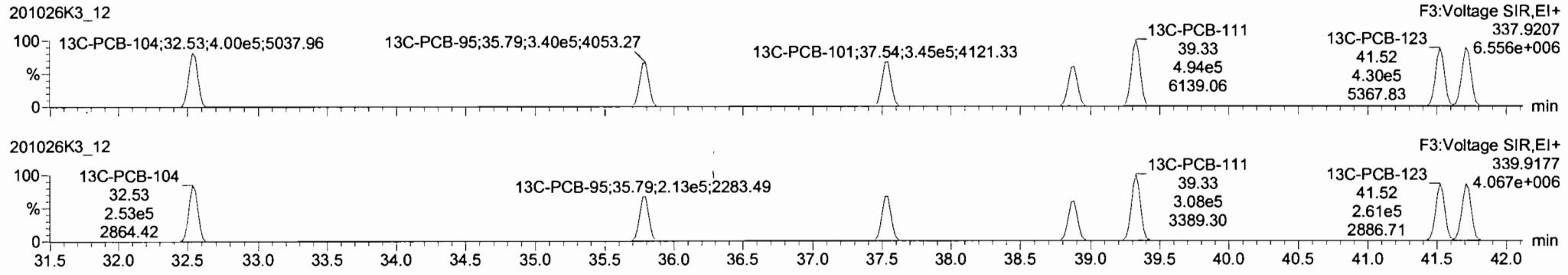


201026K3\_12

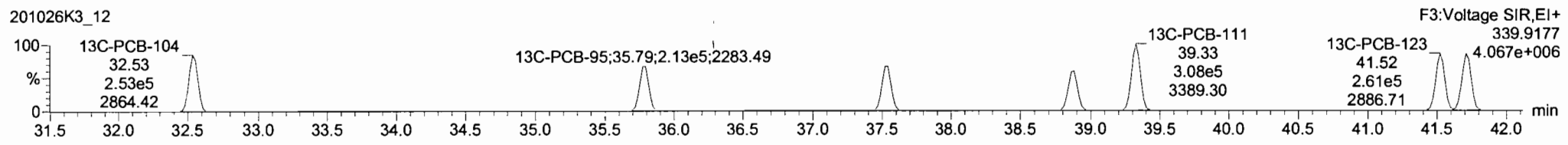


**13C-PCB-104**

201026K3\_12

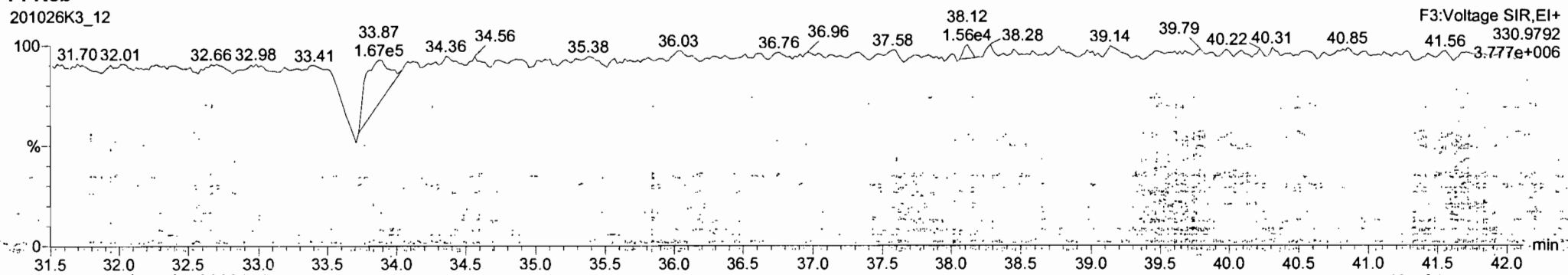


201026K3\_12



**PFK3b**

201026K3\_12

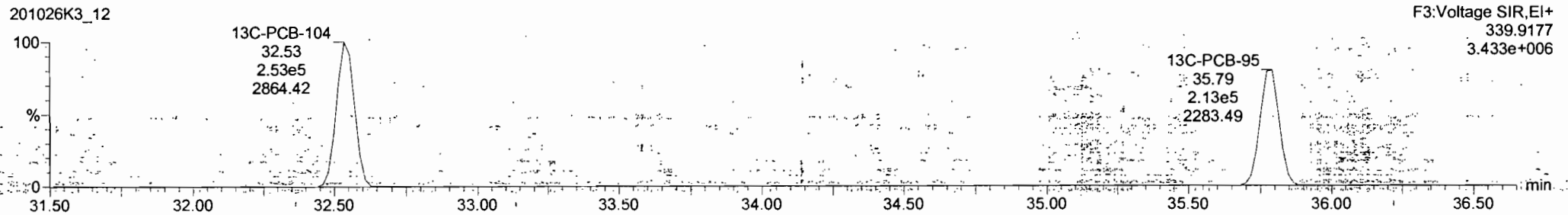
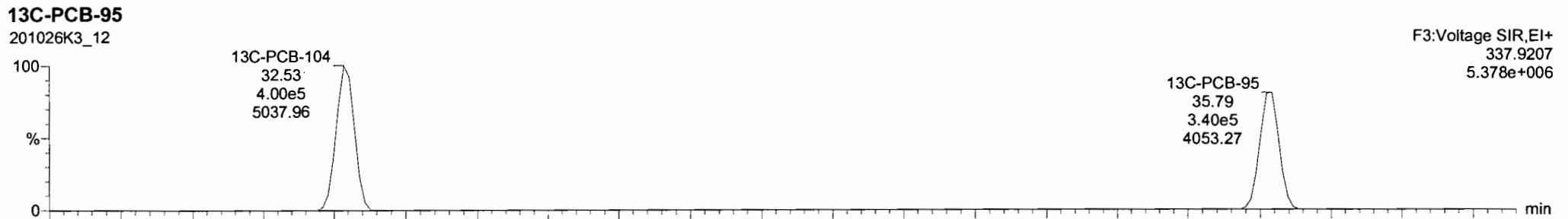
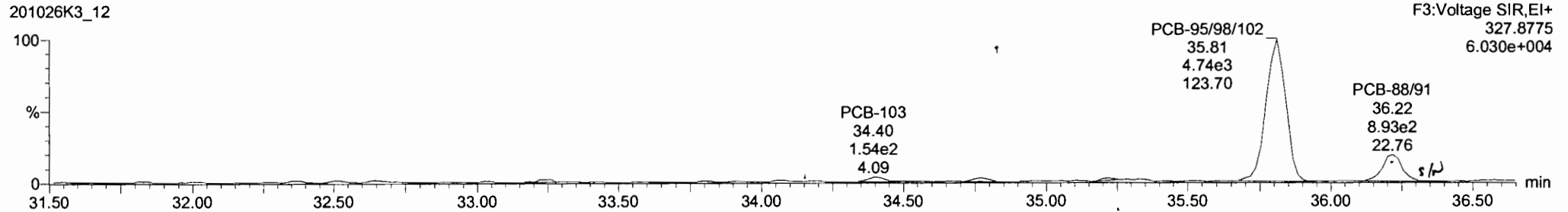
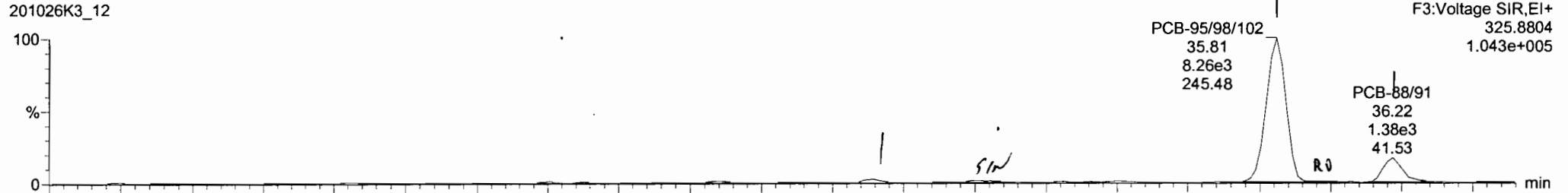


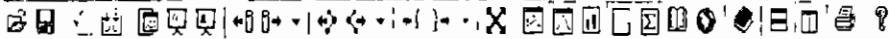
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Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

**PCB-96**

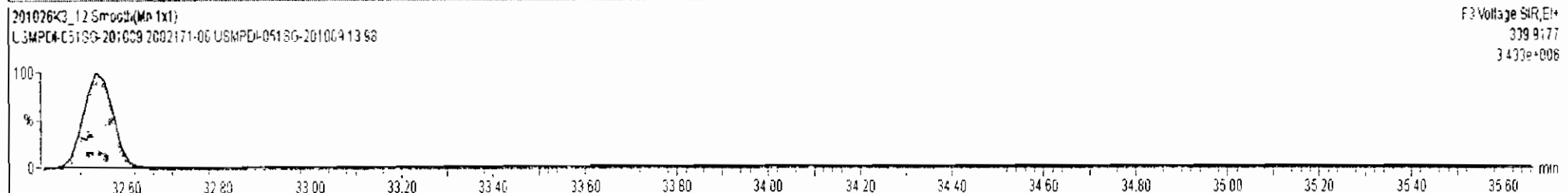
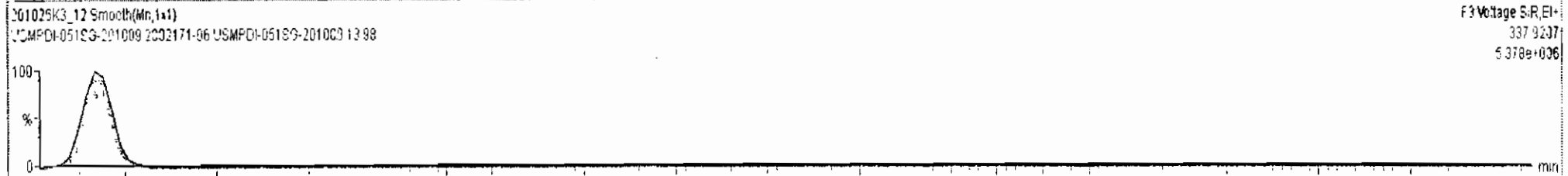
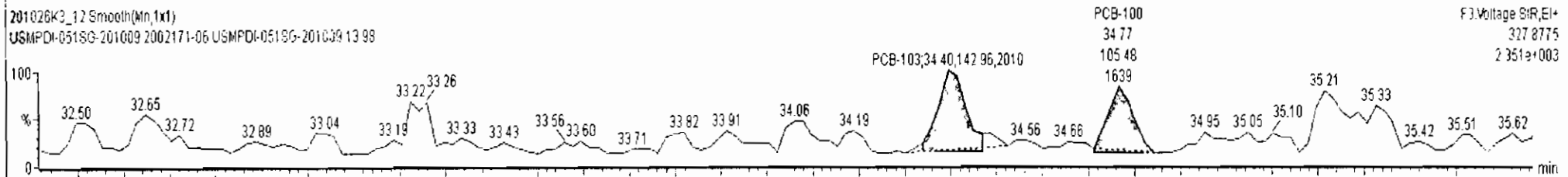
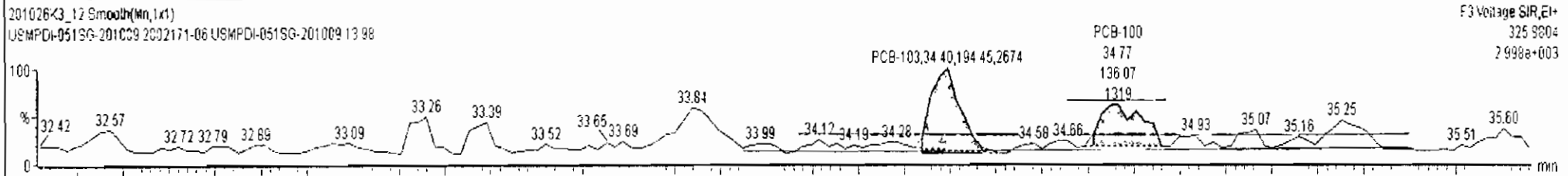




201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	nly	RRF	wtAol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	193.0
229	3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	292.5		11.4	298.4
230	4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.65		1.47	18.02
231	3rd Function hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	66.78

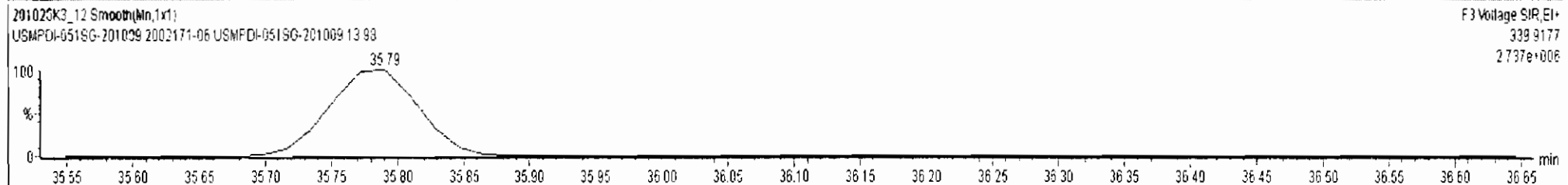
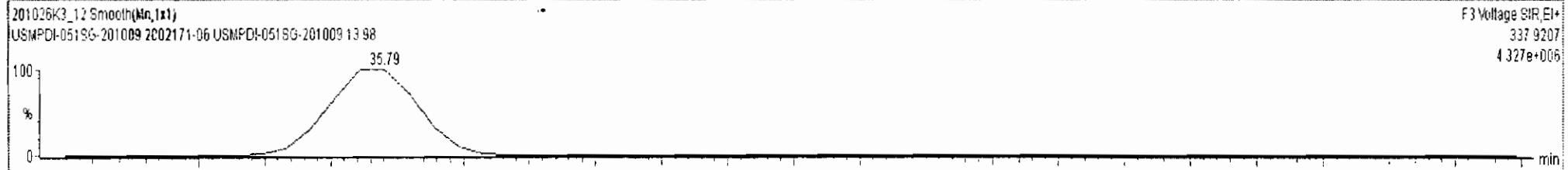
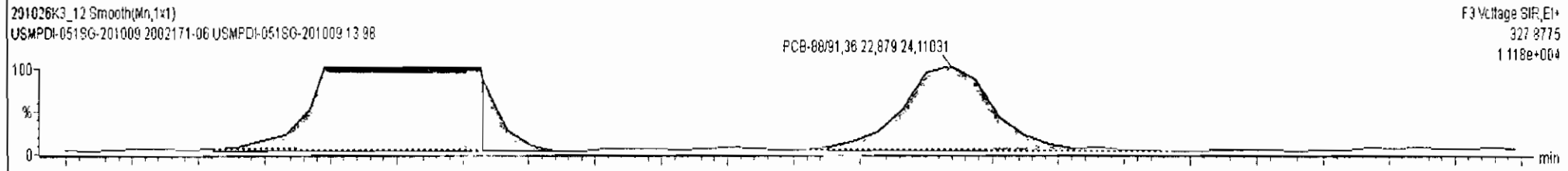
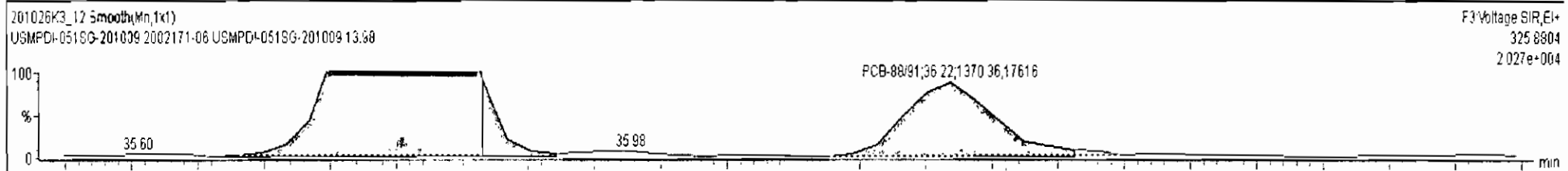
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	66 PCB-103	34.41	34.40	1.944e2	1.430e2	1.560	1.36	NO	1.0964	1.0964
2	67 PCB-100	34.79	34.77	1.361e2	1.055e2	1.560	1.29	YES	0.71258	0.00000



201026K3\_12 - 2002171:06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R..	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	192.9
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	299.1		11.4	304.6
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.66		1.47	18.03
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	73.23		4.77	86.78

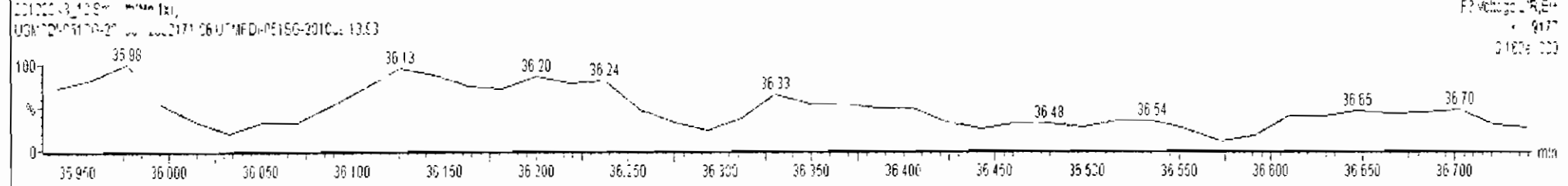
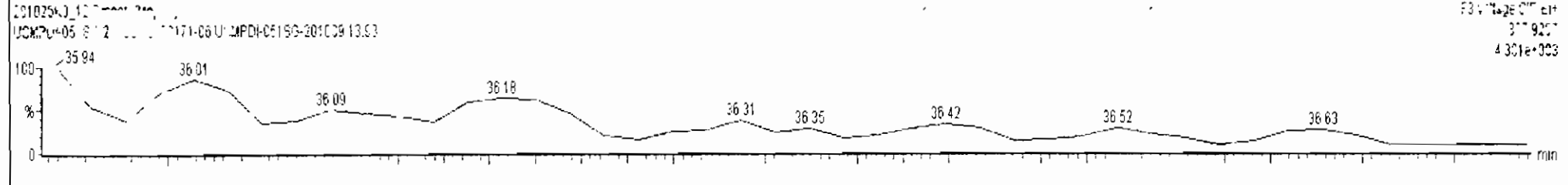
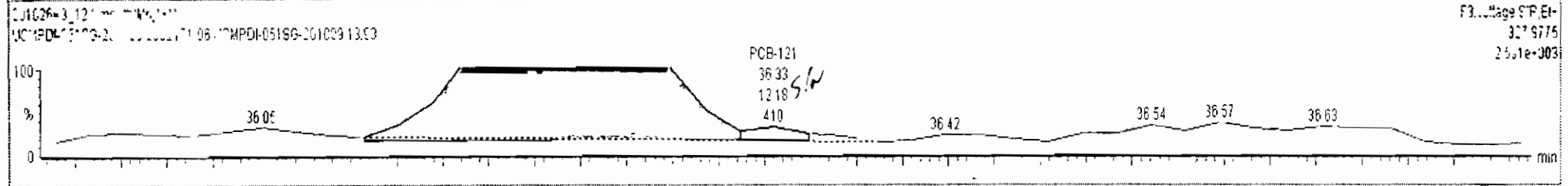
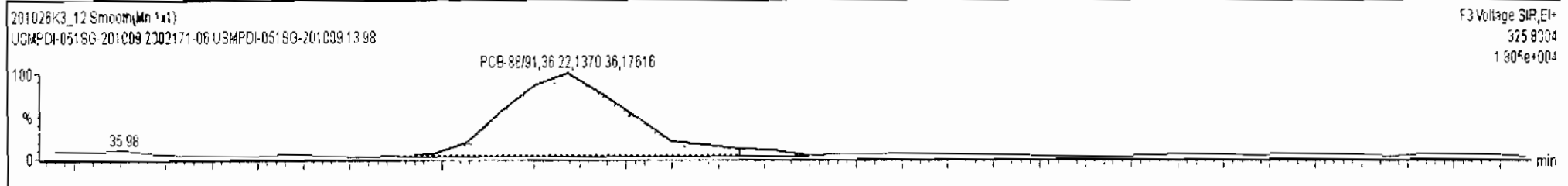
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
2	69 PCB-95/98/102	35.74	35.81	8.063e3	4.631e3	1.560	1.74	NO	37.930	37.930
3	70 PCB-93	35.89	35.87	2.743e2	1.478e2	1.560	1.86	YES	1.4561	0.00000
4	71 PCB-88/91	36.22	36.22	1.370e3	8.792e2	1.560	1.56	NO	7.6030	7.6030
5	73 PCB-84/92	37.17	37.15	4.077e3	2.704e3	1.560	1.51	NO	23.754	23.754



201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	193.0
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	291.5		11.4	299.1
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.56		1.47	18.03
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.78

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
1	66 PCB-103	34.41	34.40	1.944e2	1.430e2	1.560	1.36	NO	1.0964	1.0964
2	69 PCB-95/98/102	35.74	35.81	8.063e3	4.626e3	1.560	1.74	NO	37.915	37.915
3	70 PCB-93	35.89	35.87	2.743e2	1.466e2	1.560	1.87	YES	1.4443	0.00000
4	71 PCB-88/91	36.22	36.22	1.370e3	8.846e2	1.560	1.55	NO	7.6211	7.6211



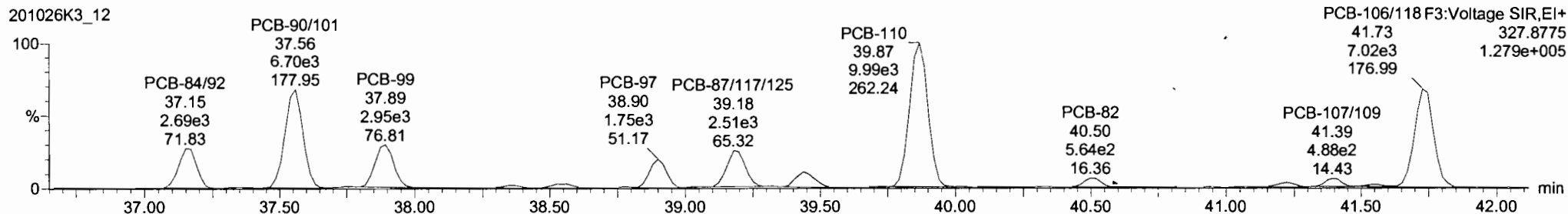
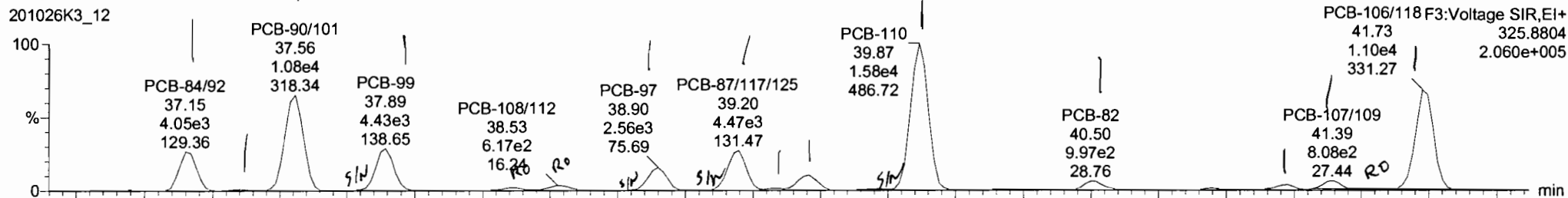


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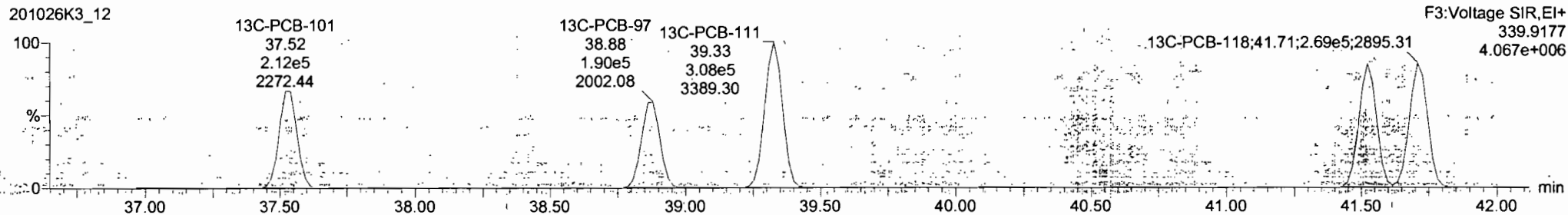
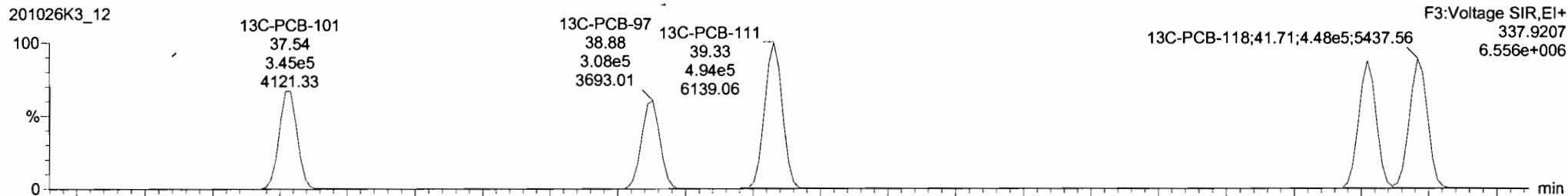
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

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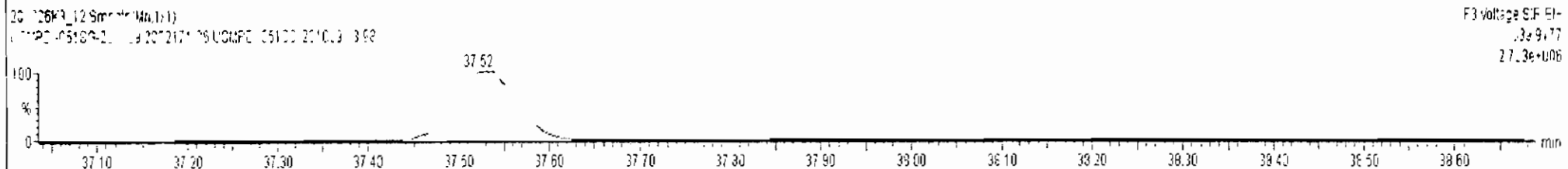
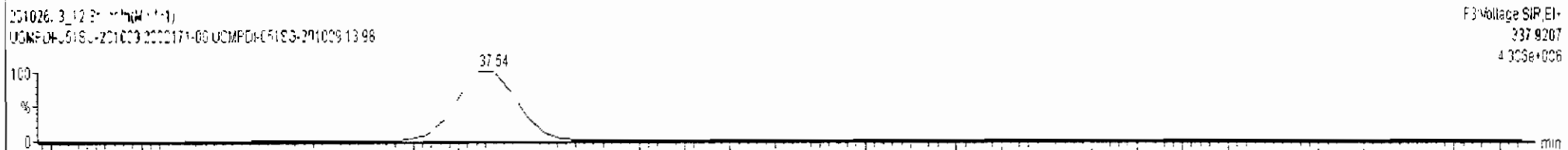
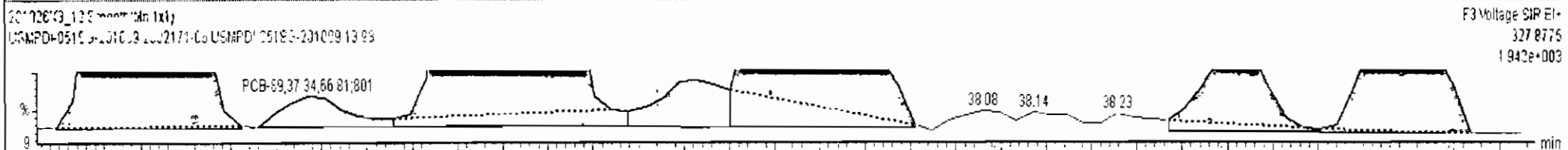
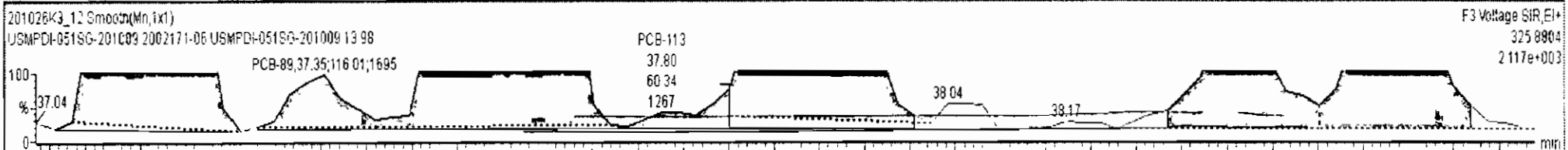
13C-PCB-111



201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RF	wtAvf	Pred.RT	RT	Pred.R	PRT	PRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	193.0
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	293.0		11.4	300.0
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.66		1.47	18.03
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.78

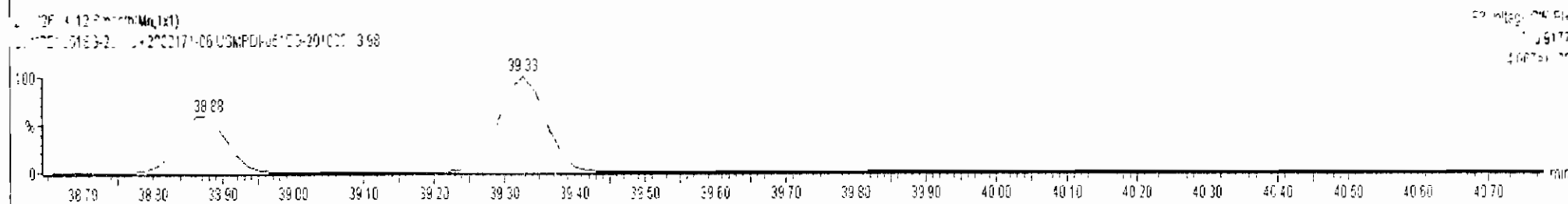
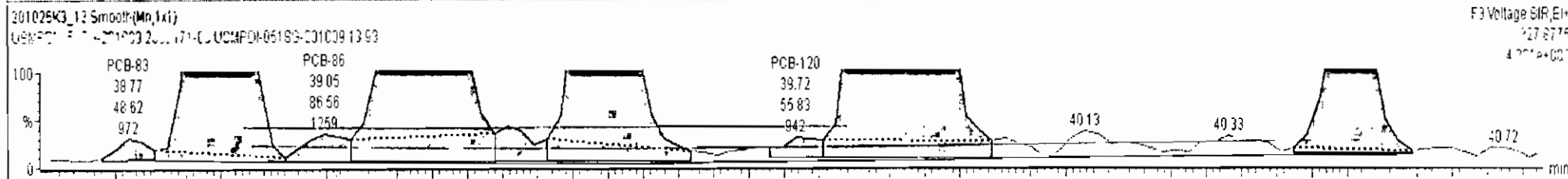
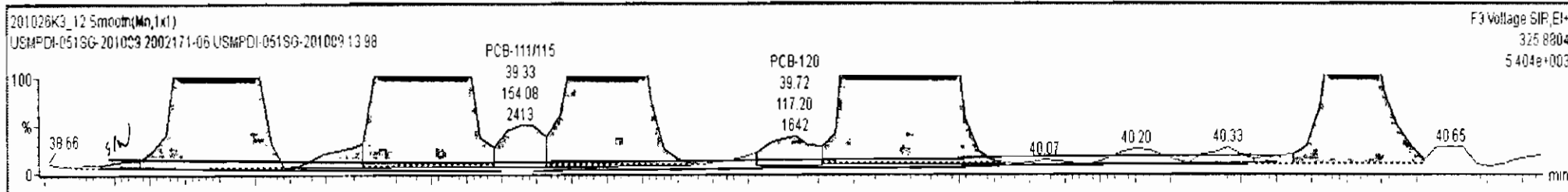
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
5	73 PCB-84/92	37.17	37.15	4.077e3	2.704e3	1.560	1.51	NO	23.754	23.754
6	74 PCB-89	37.36	37.35	1.160e2	6.681e1	1.560	1.74	NO	0.58984	0.58984
7	75 PCB-90/101	37.55	37.56	1.086e4	6.784e3	1.560	1.60	NO	56.023	56.023
8	76 PCB-113	37.80	37.80	6.034e1	1.001e2	1.560	0.60	YES	0.23319	0.00000
9	77 PCB-99	37.90	37.89	4.474e3	3.057e3	1.560	1.46	NO	20.327	20.327
10	78 PCB-119	38.38	38.36	3.486e2	1.852e2	1.560	1.88	YES	1.0493	0.00000
11	79 PCB-108/112	38.53	38.53	6.013e2	3.210e2	1.560	1.87	YES	2.2721	0.00000



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#	Name	Resp	RA	nly	RRF	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	193.0
229	3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	297.2		11.4	304.9
230	4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.66		1.47	18.03
231	3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.78

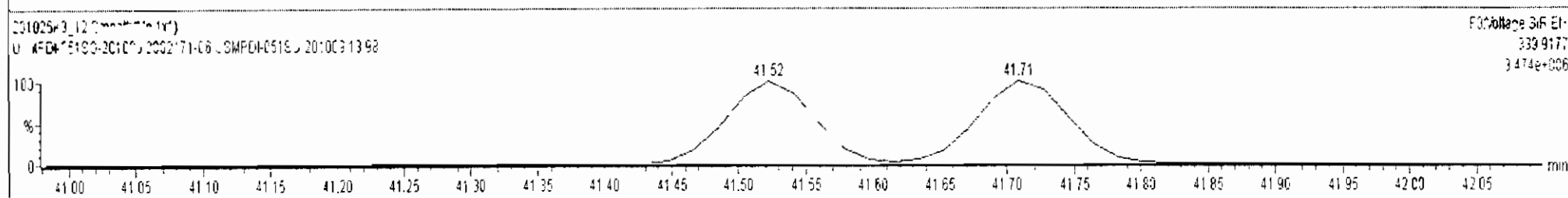
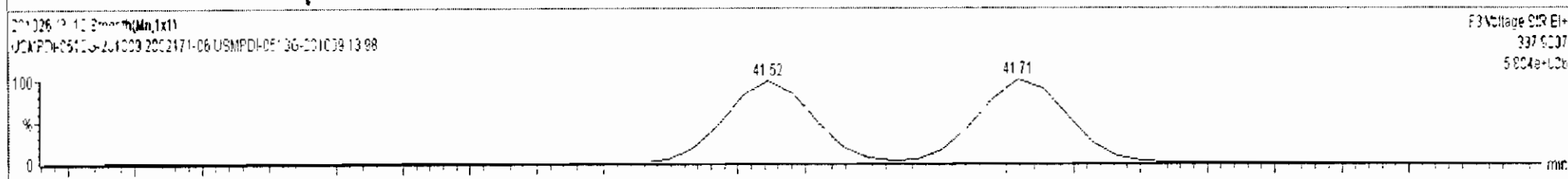
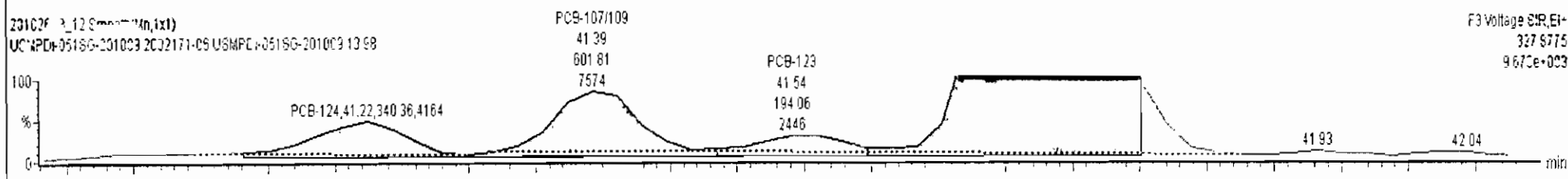
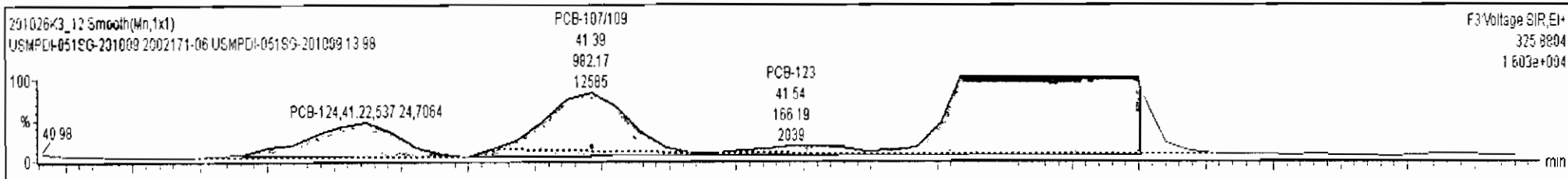
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc
12	80 PCB-83	38.71	38.77	1.767e1	4.862e1	1.560	0.36	YES	0.063235	0.00000
13	81 PCB-97	38.90	38.90	2.543e3	1.814e3	1.560	1.40	NO	13.579	13.579



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#	Name	Resp	RA	n/y	RRF	wt/mol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	192.9
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	299.1		11.4	303.1
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.66		1.47	18.03
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	66.78

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
16	89 PCB-124	41.21	41.22	5.372e2	3.404e2	1.560	1.58	NO	1.8060	1.8060
17	90 PCB-107/109	41.35	41.39	9.822e2	6.018e2	1.560	1.63	NO	3.3934	3.3934
18	91 PCB-123	41.54	41.54	1.662e2	1.941e2	1.560	0.86	YES	0.65446	0.00000
19	92 PCB-106/118	41.75	41.73	1.086e4	6.930e3	1.560	1.57	NO	40.430	40.430

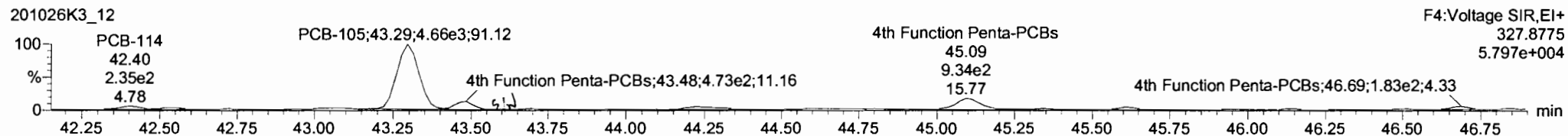
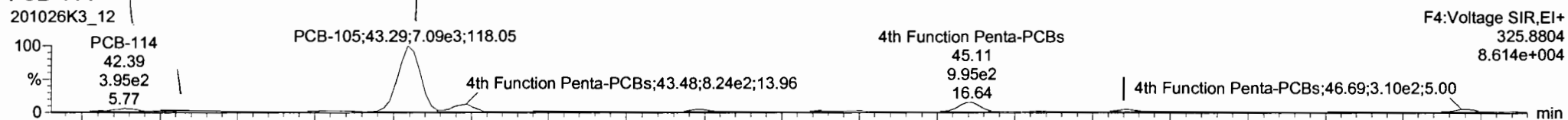


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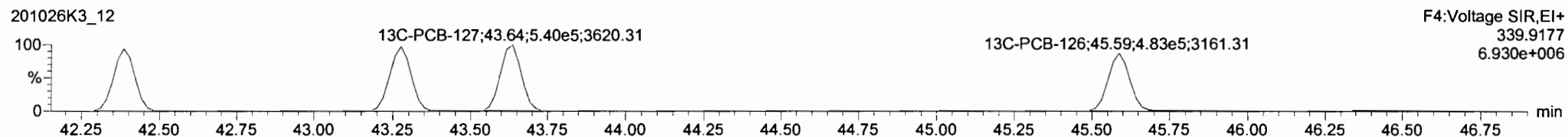
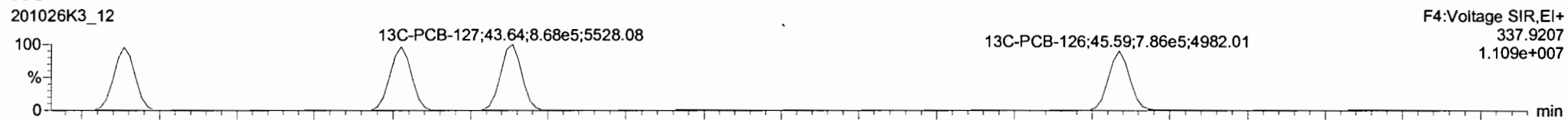
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Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

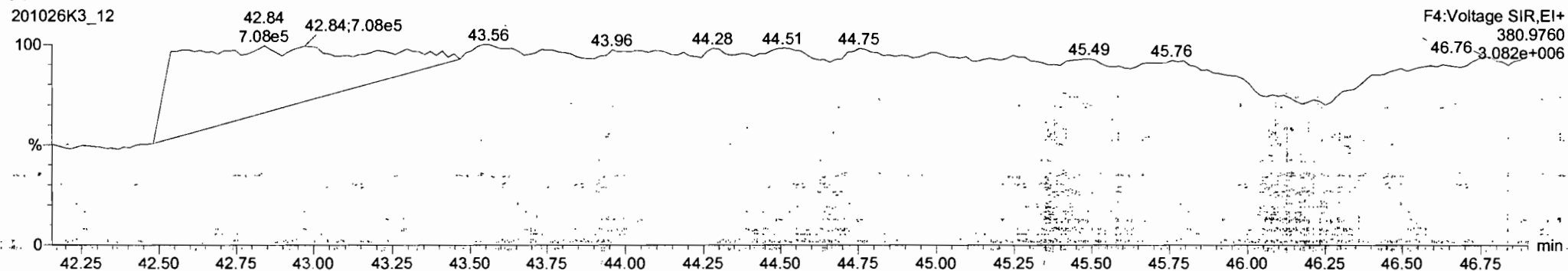
**PCB-114**



**13C-PCB-114**

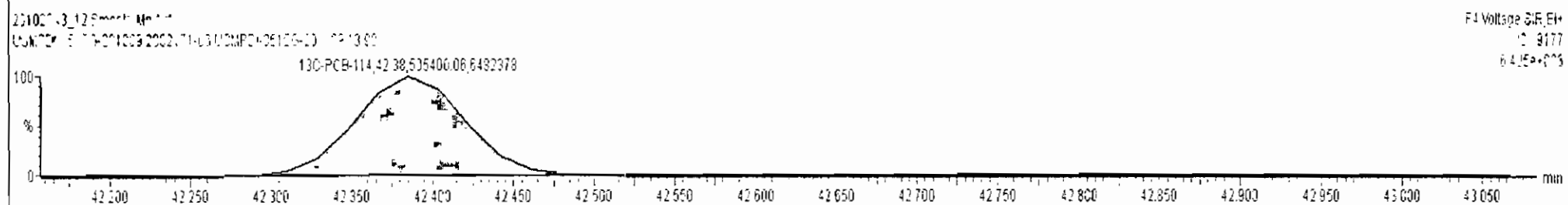
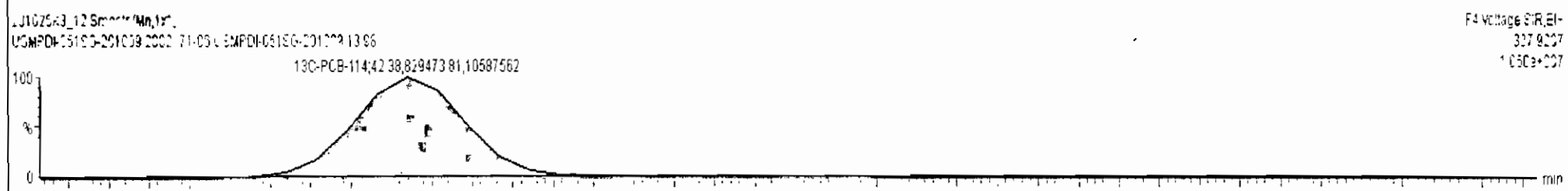
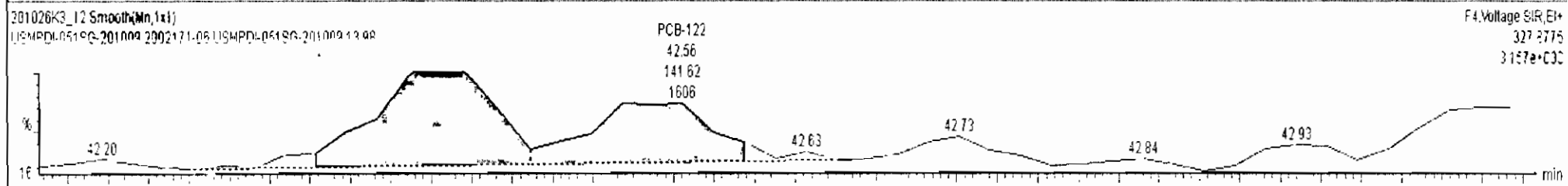
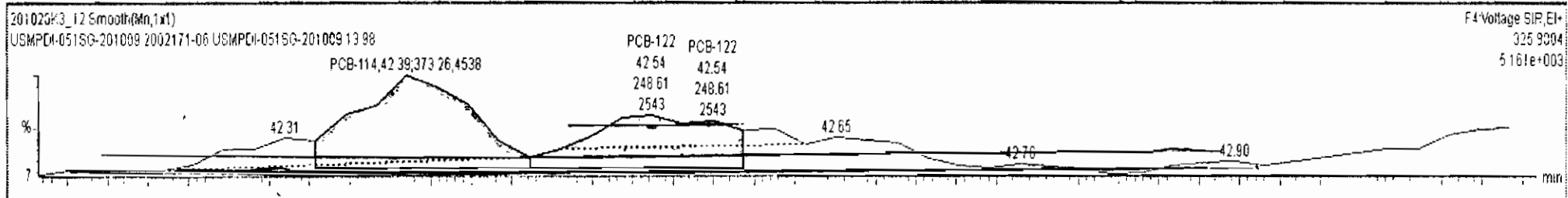


**PFK4a**



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
228	229 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	192.9
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	299.1		11.4	304.6
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	-18.24		1.47	18.24
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.78

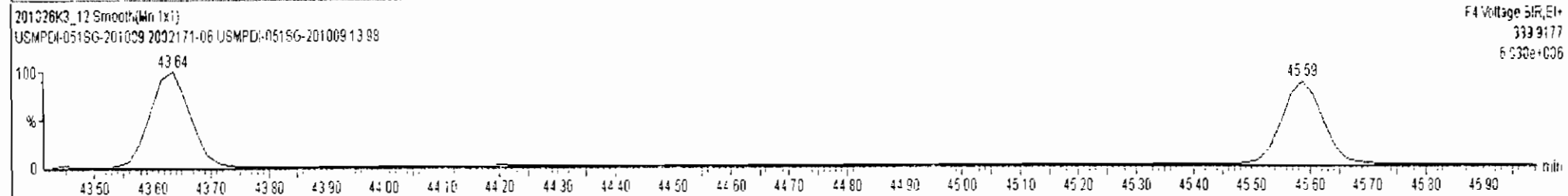
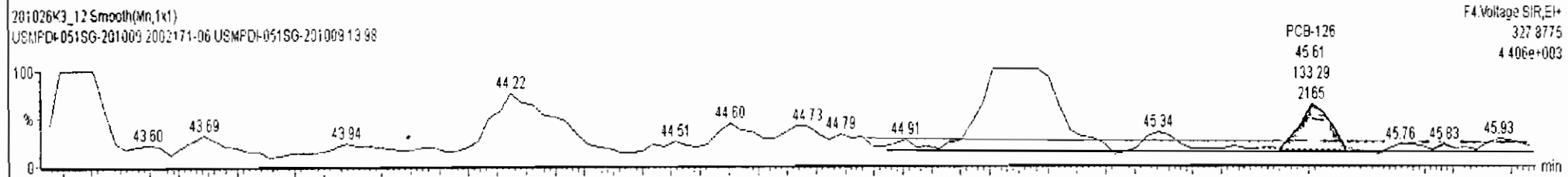
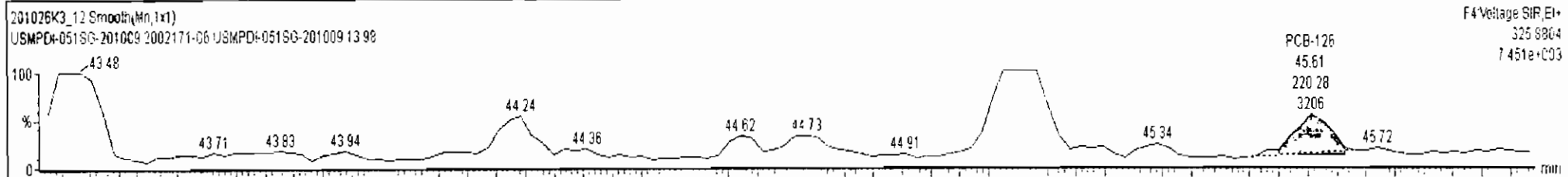
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	93 PCB-114	42.41	42.39	3.733e2	2.222e2	1.560	1.68	NO	0.77700	0.77700
2	94 PCB-122	42.55	42.54	2.486e2	1.416e2	1.560	1.76	NO	0.61538	0.61538



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#	Name	Resp	RA	nly	RRF	wtAval	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	193.0
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	292.6		11.4	298.4
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	17.66		1.47	18.03
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.78

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
3	95 PCB-105	43.29	43.29	7.090e3	4.661e3	1.550	1.52	NO	16.371	16.371
4	97 PCB-126	45.61	45.61	2.203e2	1.333e2	1.580	1.65	NO	0.47236	0.47236



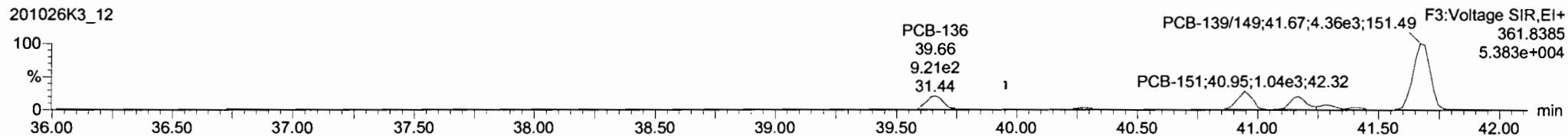
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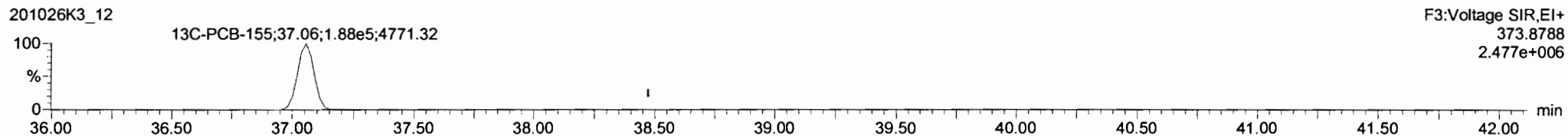
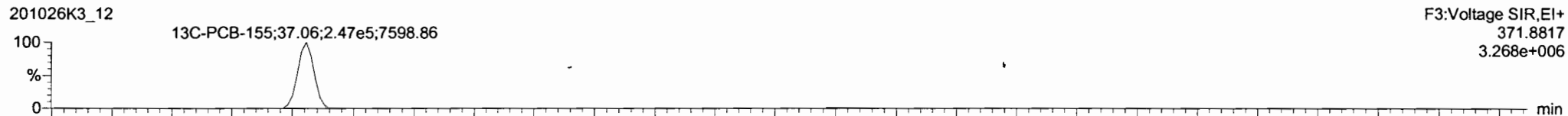
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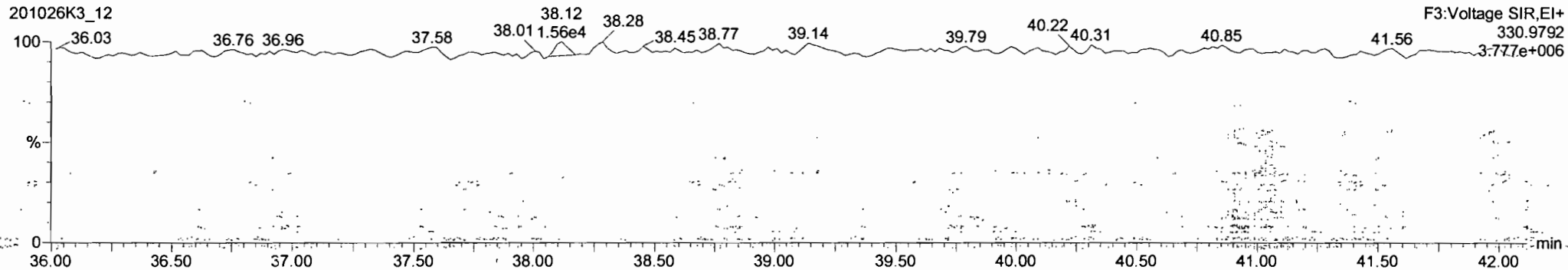
**PCB-155**



**13C-PCB-155**



**PFK3c**

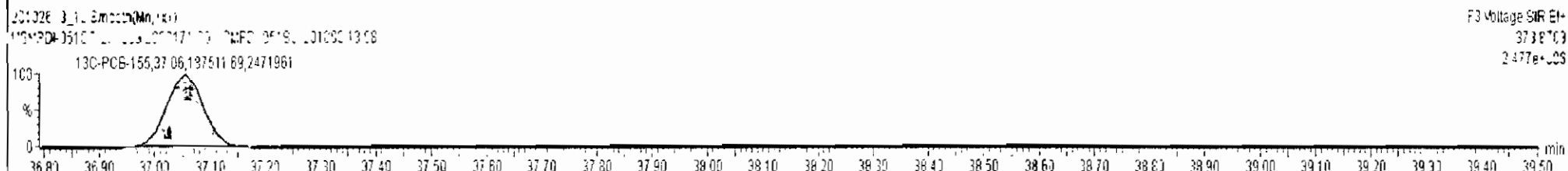
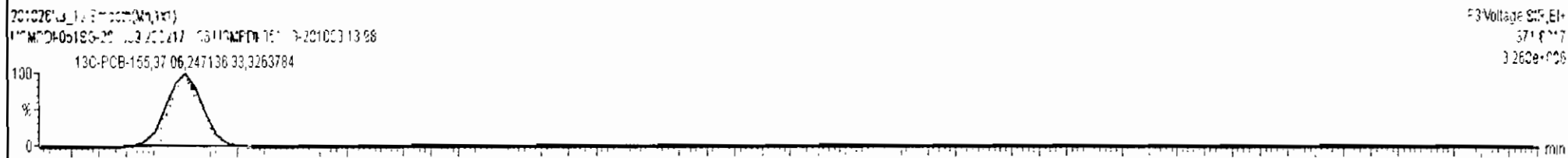
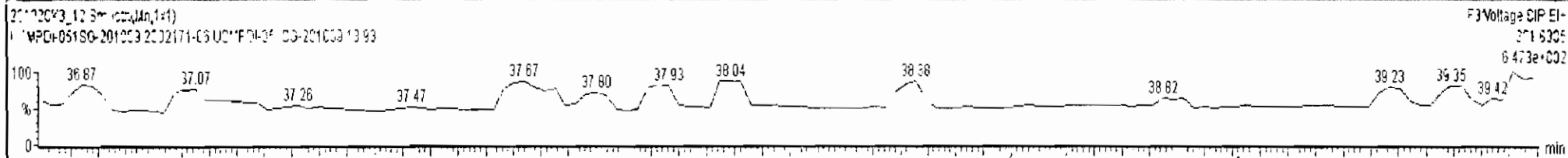
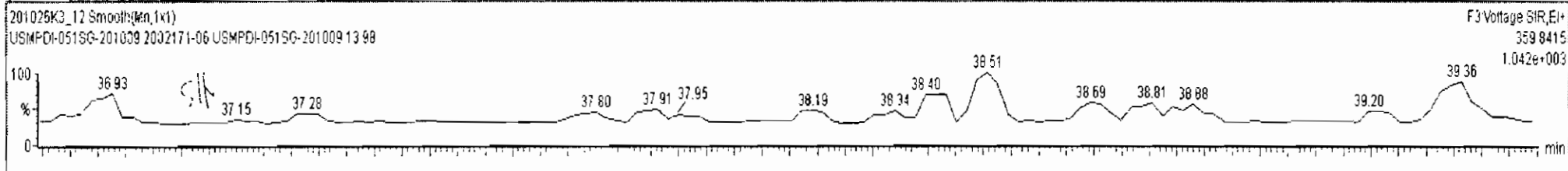




201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13 98 -USMPDI-051SG-201009

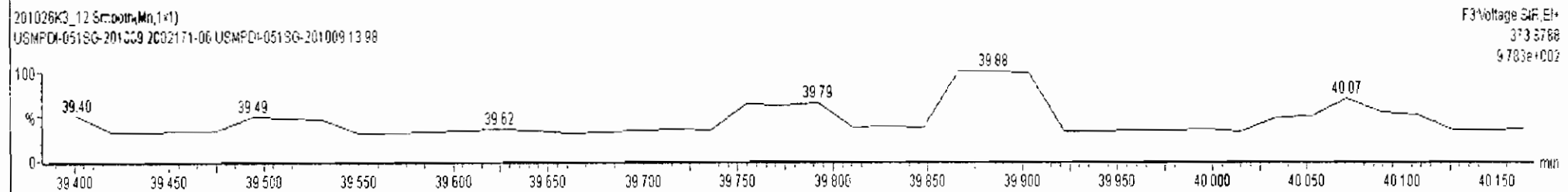
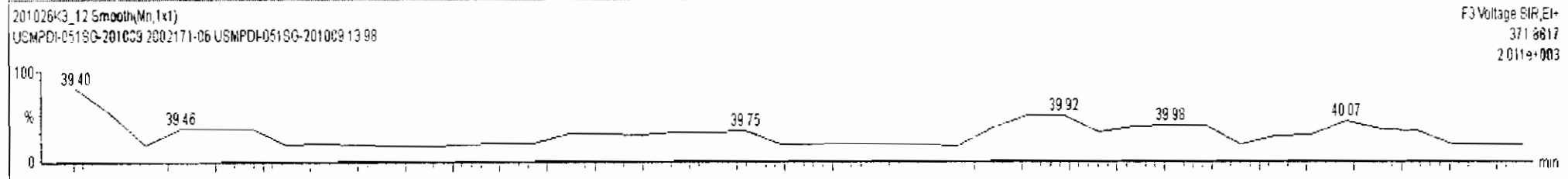
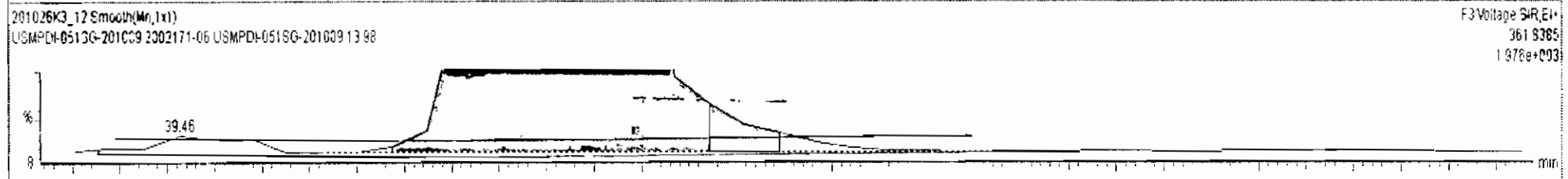
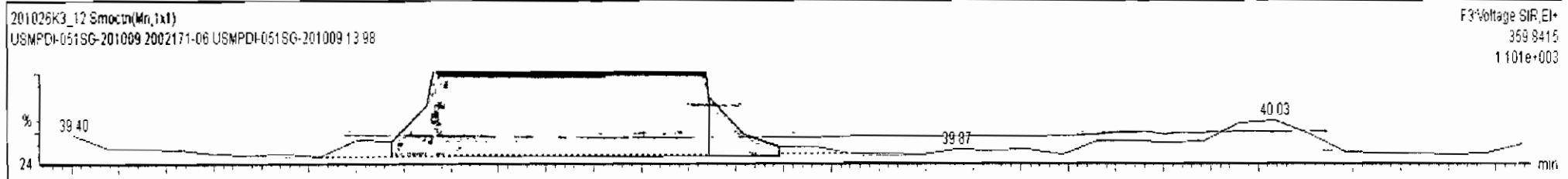
#	Name	Resp	RA	n/y	RRF	wMol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	192.9
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	299.1		11.4	304.6
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	18.24		1.47	18.24
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.23		4.77	86.78

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
1	102 PCB-136	39.68	39.68	1.133e3	9.208e2	1.240	1.23	NO	9.1992	9.1992
2	104 PCB-154	40.28	40.28	8.266e1	1.068e2	1.240	0.77	YES	0.74308	0.00000
3	105 PCB-151	40.95	40.94	1.614e3	1.044e3	1.240	1.55	YES	13.594	0.00000
4	106 PCB-135	41.17	41.17	1.019e3	7.966e2	1.240	1.28	NO	9.0024	9.0024
5	107 PCB-144	41.28	41.28	2.112e2	2.794e2	1.240	0.76	YES	2.2113	0.00000
6	108 PCB-147	41.41	41.41	1.540e2	1.235e2	1.240	1.25	NO	1.5208	1.5208



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	152.9
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	299.1		11.4	304.6
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	18.24		1.47	18.24
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.33		4.77	87.42

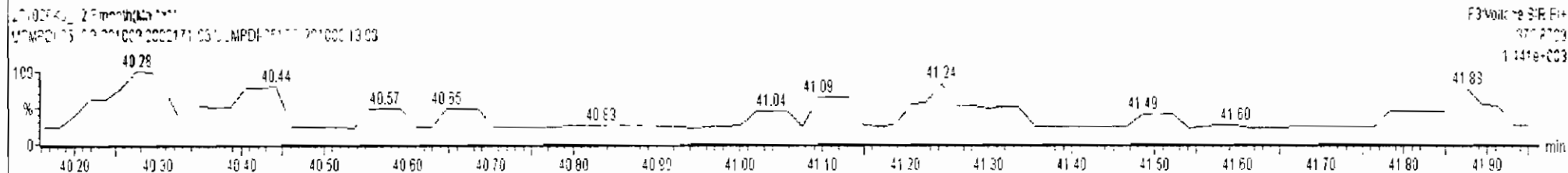
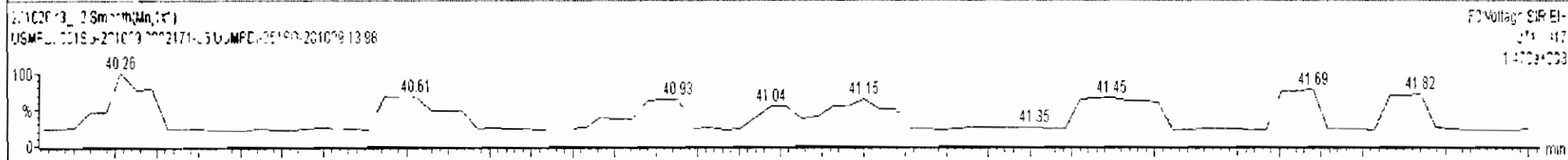
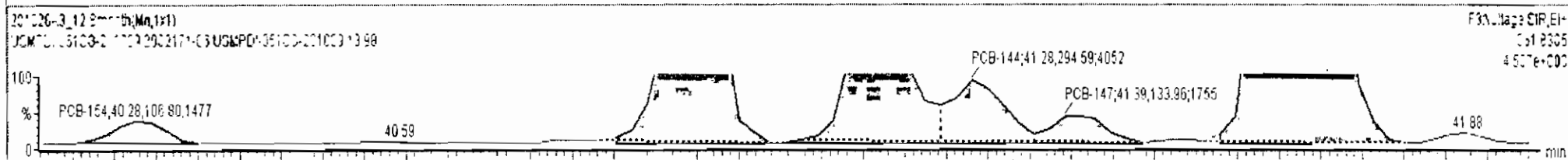
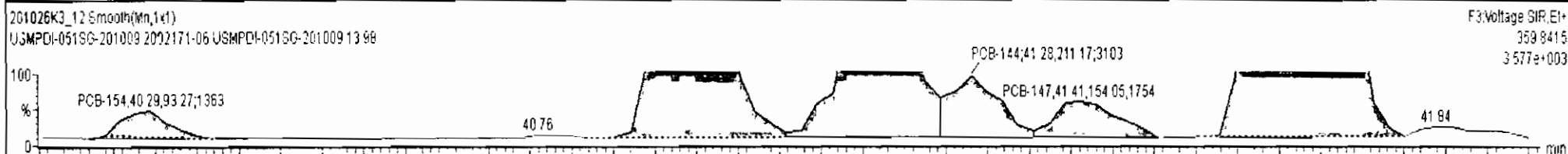
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	102 PCB-136	39.66	39.66	1.119e3	8.877e2	1.240	1.26	NO	8.9874	8.9874
2	103 PCB-148	39.76	39.74	9.648e0	2.289e1	1.240	0.42	YES	0.094709	0.00000
3	104 PCB-154	40.28	40.29	9.327e1	1.068e2	1.240	0.87	YES	0.83845	0.00000



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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
228	228 Total Tetra-PCBs				1.0778	5.031	0.00		0.000		NO	177.3		7.26	192.9
229	229 3rd Function Penta-PCBs				1.3157	5.031	0.00		0.000		NO	299.1		11.4	304.6
230	230 4th Function Penta-PCBs				1.0735	5.031	0.00		0.000		NO	18.24		1.47	18.24
231	231 3rd Function Hexa-PCBs				0.9505	5.031	0.00		0.000		NO	70.33		4.77	87.42

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
3	104 PCB-154	40.28	40.29	9.327e1	1.068e2	1.240	0.87	YES	0.83845	0.00000
4	105 PCB-151	40.95	40.95	1.612e3	1.071e3	1.240	1.51	YES	13.947	0.00000
5	106 PCB-135	41.17	41.17	1.019e3	8.349e2	1.240	1.22	NO	9.1926	9.1926
6	107 PCB-144	41.28	41.28	2.112e2	2.946e2	1.240	0.72	YES	2.2113	0.00000
7	108 PCB-147	41.41	41.41	1.540e2	1.340e2	1.240	1.15	NO	1.5784	1.5784
8	109 PCB-139/149	41.70	41.67	6.116e3	4.364e3	1.240	1.40	NO	50.567	50.567



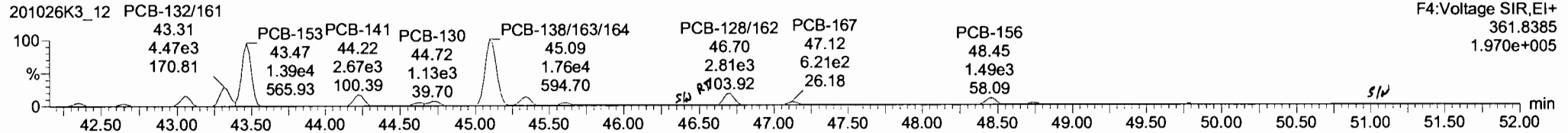
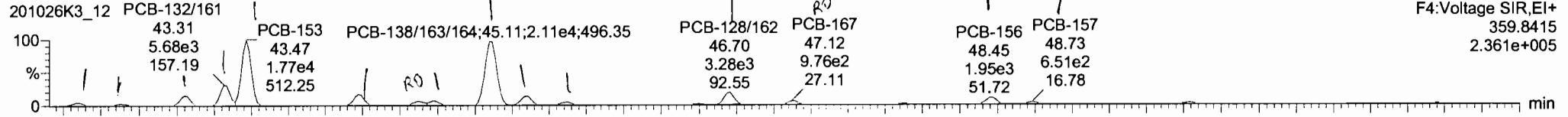
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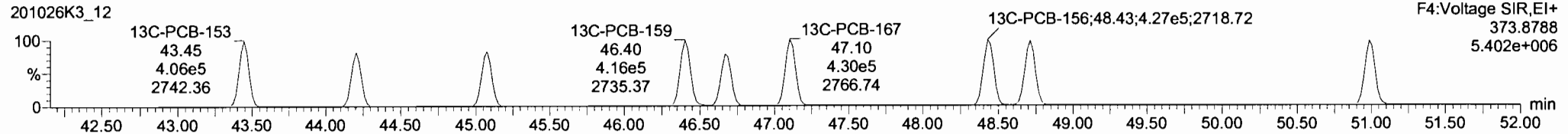
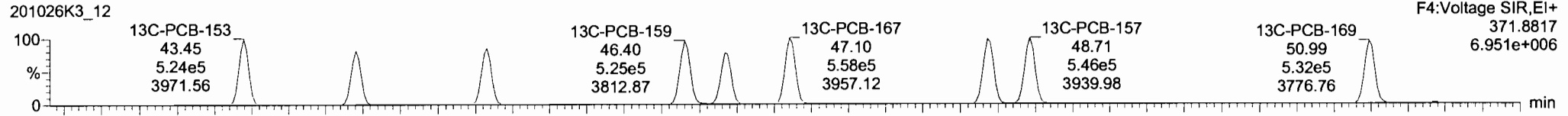
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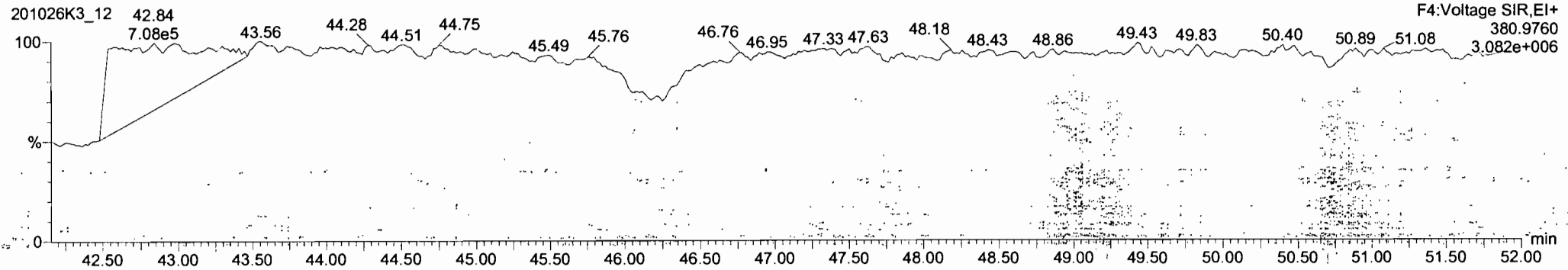
**PCB-134/143**



**13C-PCB-153**



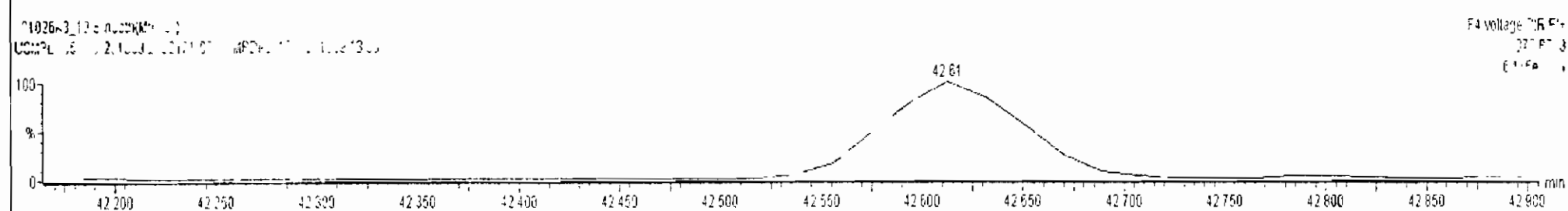
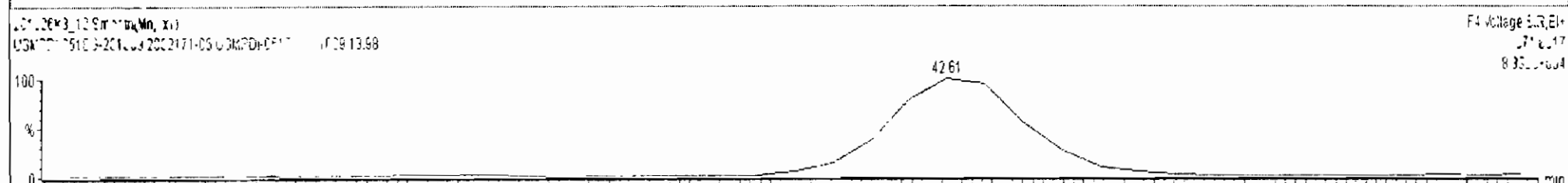
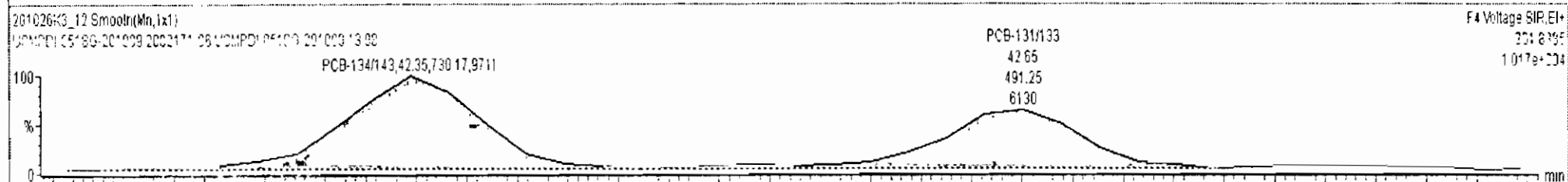
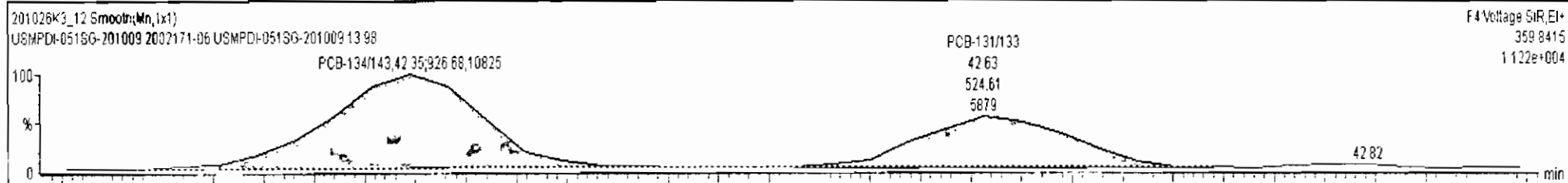
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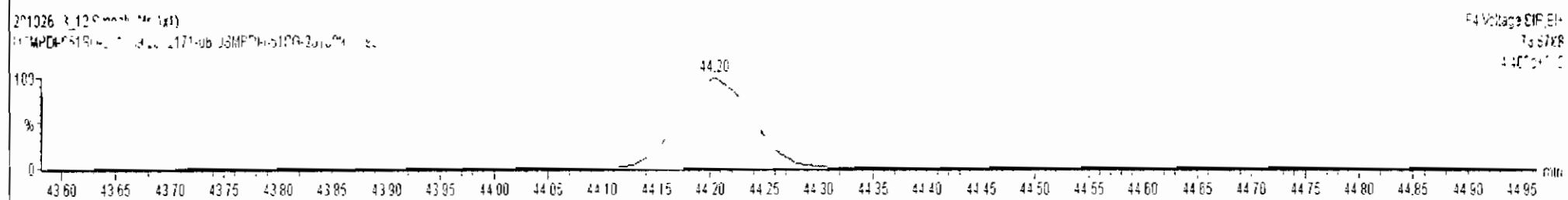
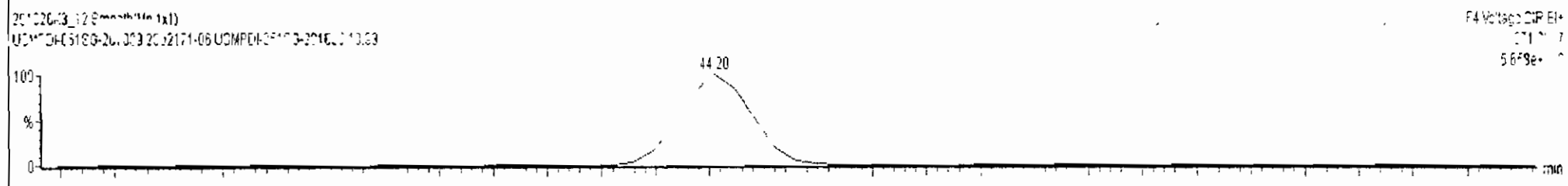
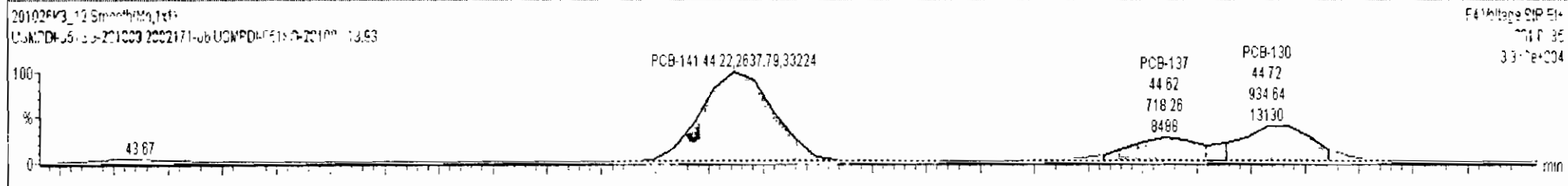
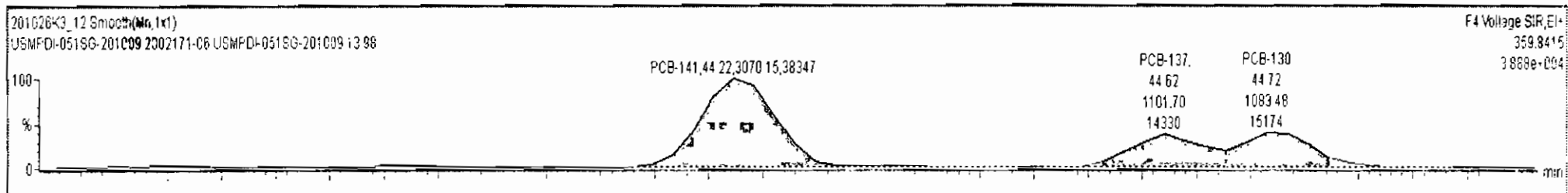
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232	4th Function Hexa-PCBs				1.0316	5.031	0.00		0.000		NO	227.7		5.40	239.3
233	Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	117.3		7.03	142.2
234	4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1	111 PCB-134/143	42.33	42.35	9.267e2	7.302e2	1.240	1.27	NO	4.6687	4.6687
2	112 PCB-131/133	42.65	42.63	5.246e2	4.913e2	1.240	1.07	NO	2.6468	2.6468



#	Name	Resp	RA	rvy	RRF	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.031	0.00		0.000		NO	226.6		5.40	238.6
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	117.3		7.09	142.2
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15

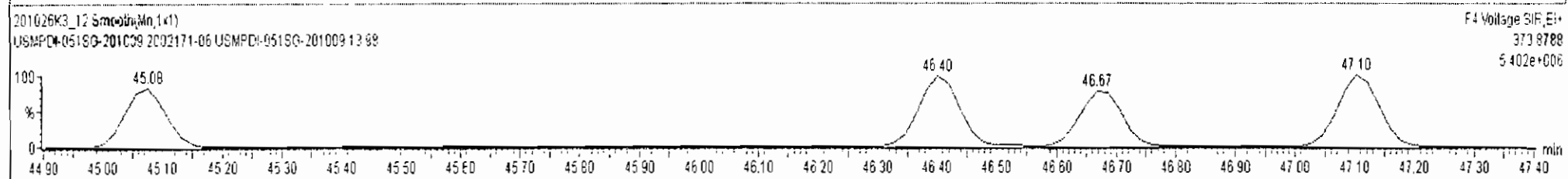
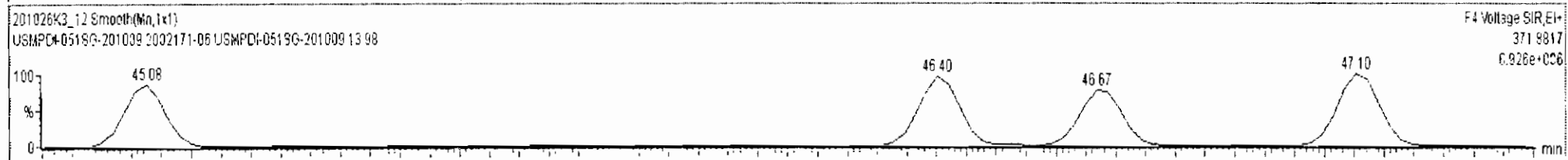
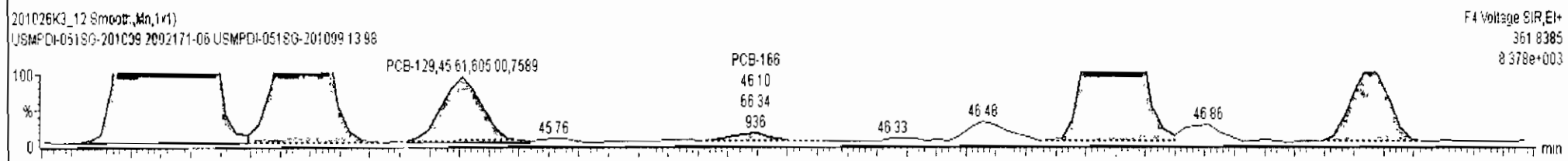
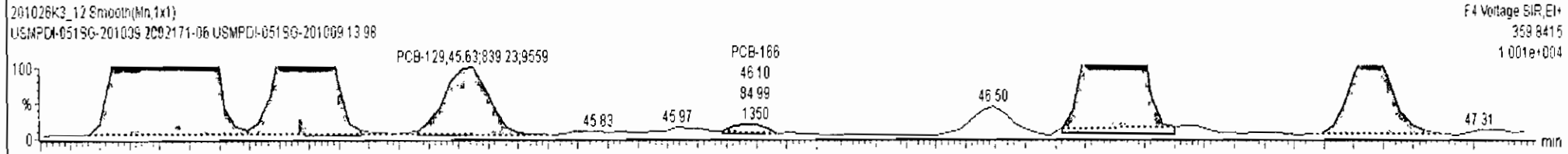
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	rvy	EMPC	Conc
6	118 PCB-141	44.22	44.22	3.070e3	2.638e3	1.240	1.16	NO	14.479	14.479
7	119 PCB-137	44.62	44.62	1.102e3	7.183e2	1.240	1.53	YES	3.7734	0.00000
8	120 PCB-130	44.71	44.72	1.063e3	9.346e2	1.240	1.16	NO	5.9364	5.9364



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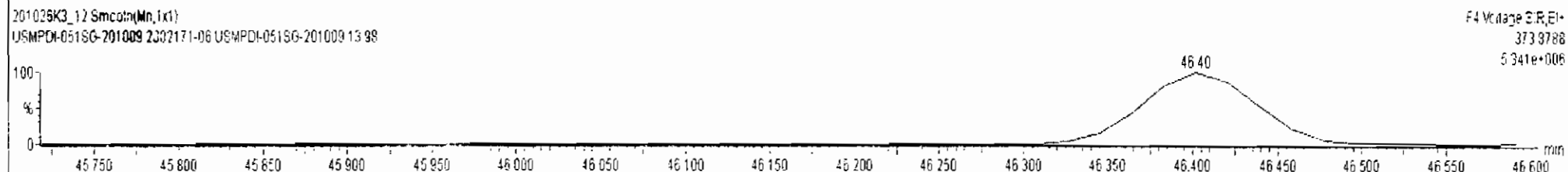
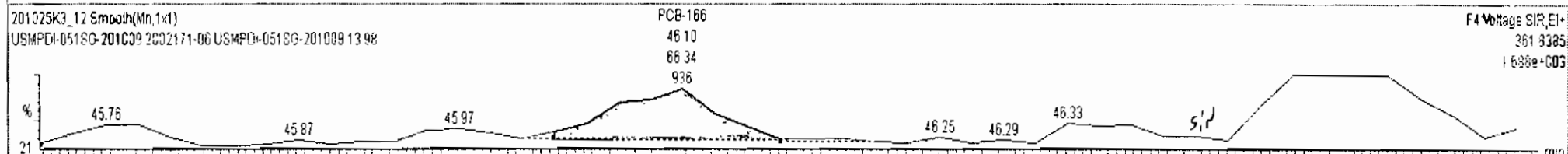
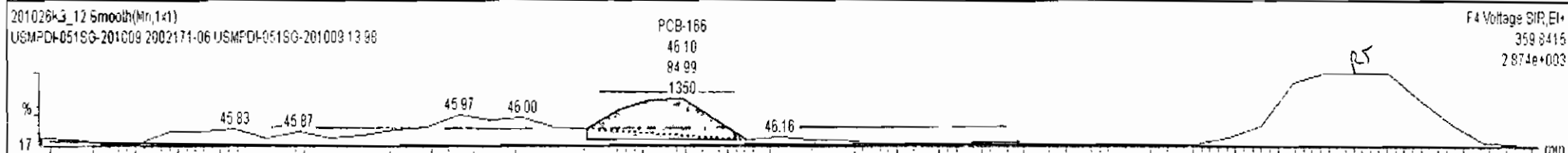
#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.031	0.00		0.000		NO	231.3		5.40	239.5
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	117.3		7.09	142.2
234	234 4th Function Octa-PCBs				1.0608	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
9	121 PCB-138/163/164	45.11	45.11	2.116e4	1.763e4	1.240	1.20	NO	74.087	74.087
10	122 PCB-158/160	45.38	45.34	2.595e3	2.096e3	1.240	1.24	NO	9.2739	9.2739
11	123 PCB-129	45.61	45.63	8.392e2	6.050e2	1.240	1.39	NO	4.0853	4.0853
12	124 PCB-166	46.08	46.10	8.499e1	6.534e1	1.240	1.28	NO	0.27965	0.27965
13	126 PCB-128/162	46.71	46.70	3.434e3	2.814e3	1.240	1.22	NO	14.544	14.544
14	127 PCB-167	47.12	47.12	9.611e2	6.312e2	1.240	1.52	YES	2.5659	0.00000



#	Name	Resp	RA	n/y	RRF	wtAval	Pred RT	RT	Pred.R...	RRT	RRT Fcst	Conc	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.031	0.00		0.000		NO	231.3		5.40	239.5
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	117.3		7.09	142.2
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
9	121 PCB-138/163/164	45.11	45.11	2.116e4	1.763e4	1.240	1.20	NO	74.087	74.087
10	122 PCB-158/160	45.38	45.34	2.595e3	2.096e3	1.240	1.24	NO	9.2739	9.2739
11	123 PCB-129	45.61	45.63	8.392e2	6.050e2	1.240	1.39	NO	4.0853	4.0853
12	124 PCB-166	46.08	46.10	8.499e1	6.634e1	1.240	1.28	NO	0.27965	0.27965
13	126 PCB-128/162	46.71	46.70	3.434e3	2.814e3	1.240	1.22	NO	14.544	14.544
14	127 PCB-167	47.12	47.12	9.611e2	6.312e2	1.240	1.52	YES	2.5659	0.00000

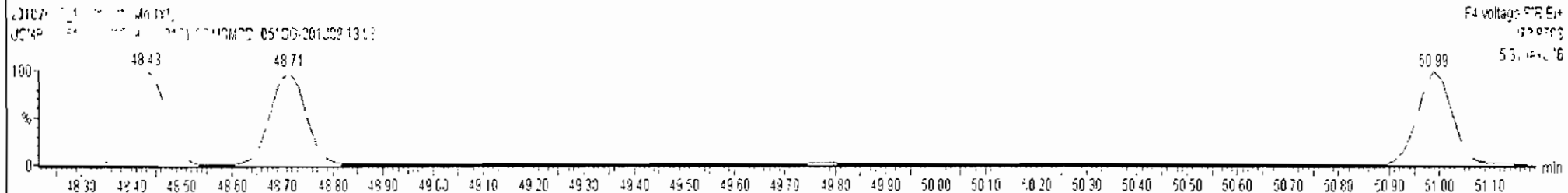
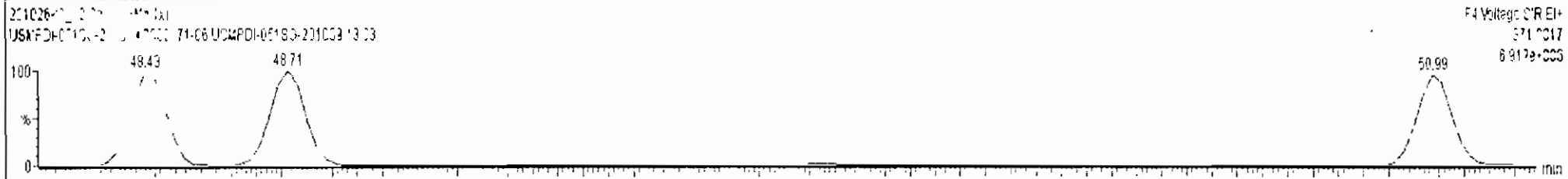
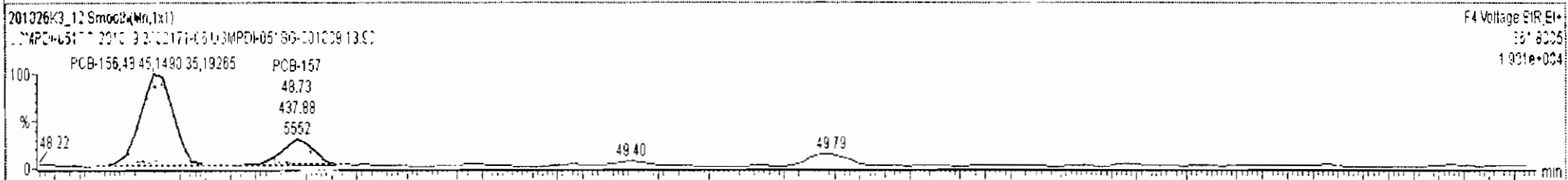
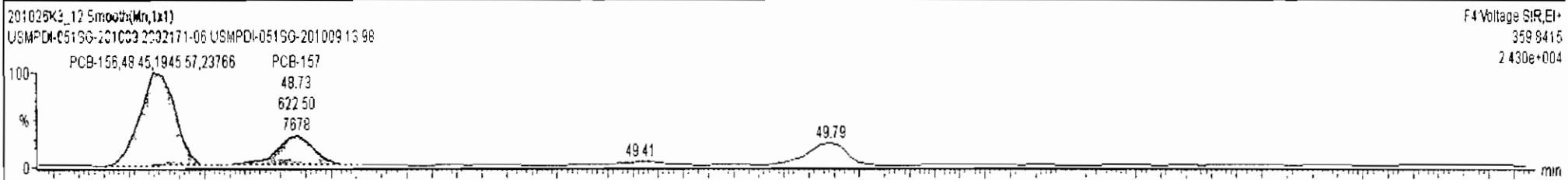




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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.031	0.00		0.000		NO	233.4		5.40	239.8
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	117.3		7.09	142.2
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
15	126 PCB-156	48.45	48.45	1.946e3	1.490e3	1.240	1.31	NO	6.1812	6.1812
16	129 PCB-157	48.73	48.73	6.225e2	4.379e2	1.240	1.42	NO	2.1087	2.1087

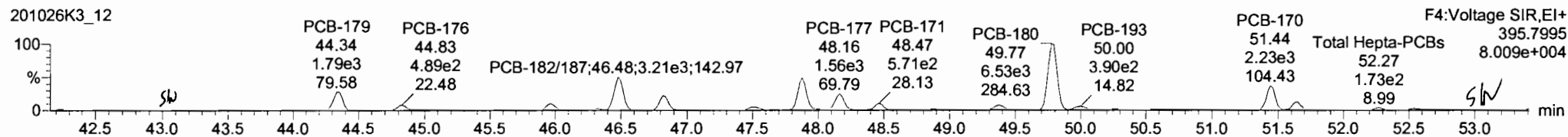
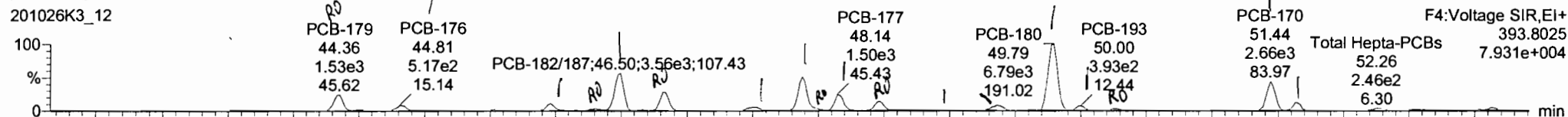


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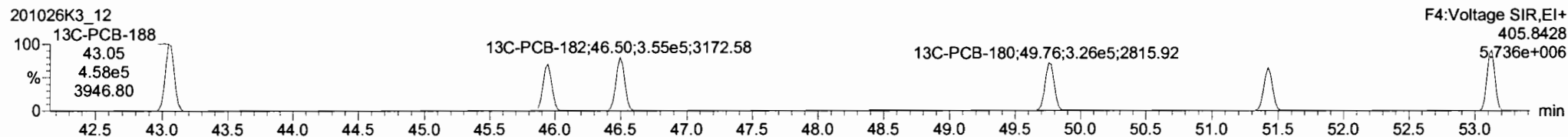
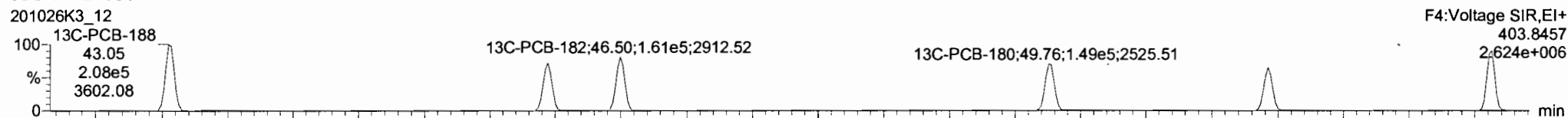
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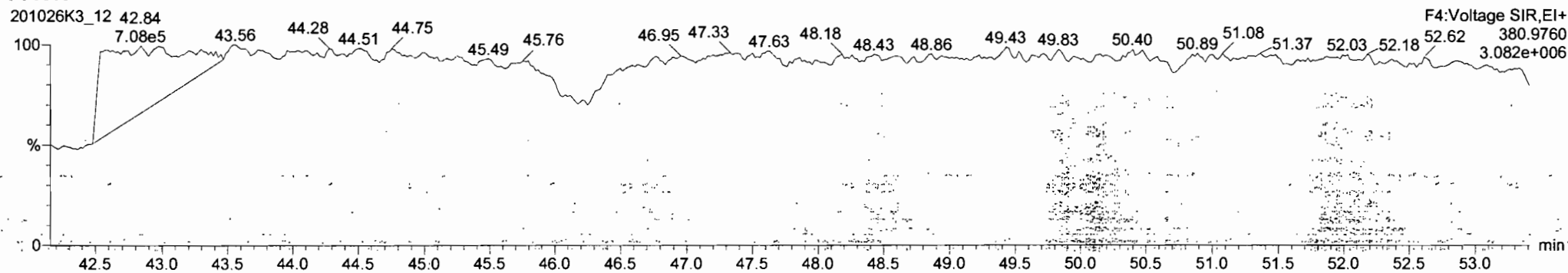
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**13C-PCB-188**



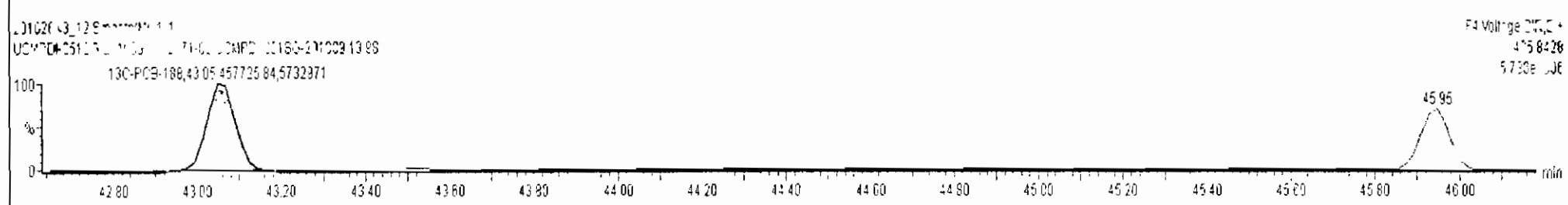
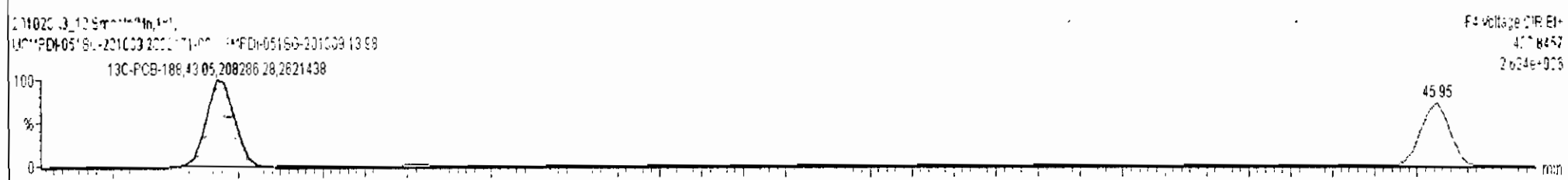
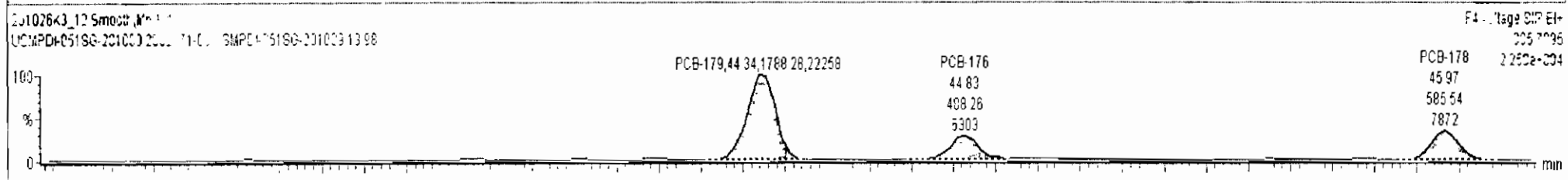
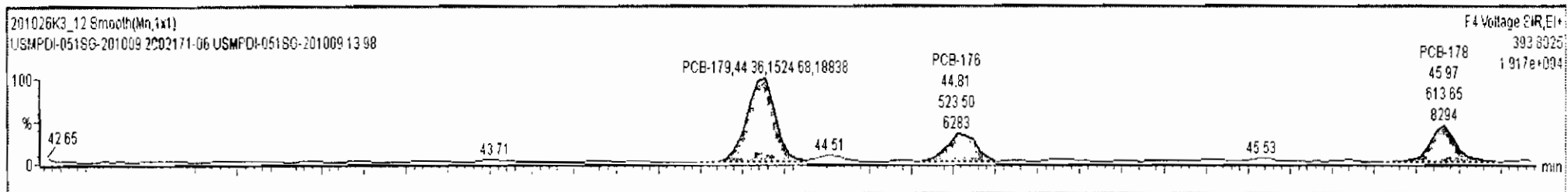
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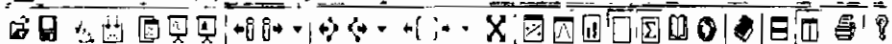


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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fal	Conc	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.031	0.00		0.000		NO	233.1		5.40	239.5
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	117.3		7.09	142.2
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	235 5th Function Octa-PCBs				1.1498	5.031	0.00		0.000		NO	0.0000		0.742	12.15

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	133 PCB-179	44.34	44.36	1.525e3	1.786e3	1.050	0.85	YES	6.8443	0.00000
2	134 PCB-176	44.83	44.81	5.235e2	4.883e2	1.050	1.07	NO	2.3075	2.3075
3	136 PCB-178	45.97	45.97	6.137e2	5.855e2	1.050	1.05	NO	3.7945	3.7945
4	137 PCB-175	46.33	46.31	1.436e2	1.193e2	1.050	1.20	NO	0.82054	0.82054

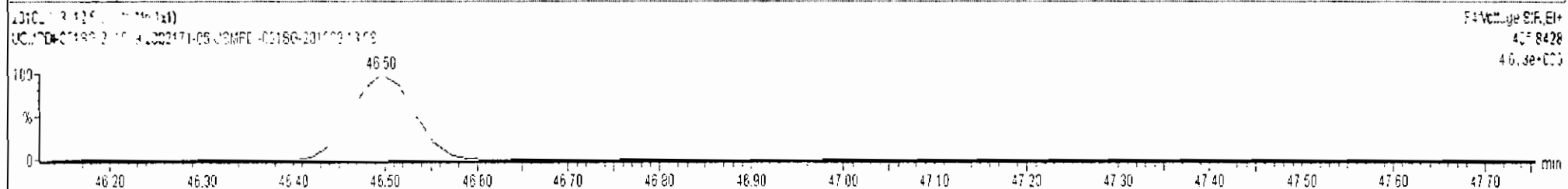
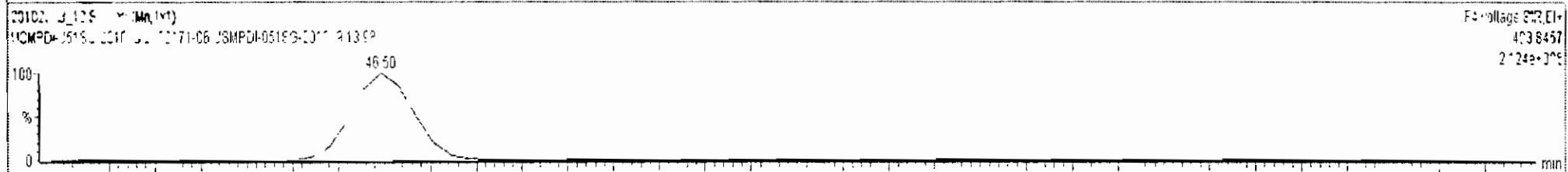
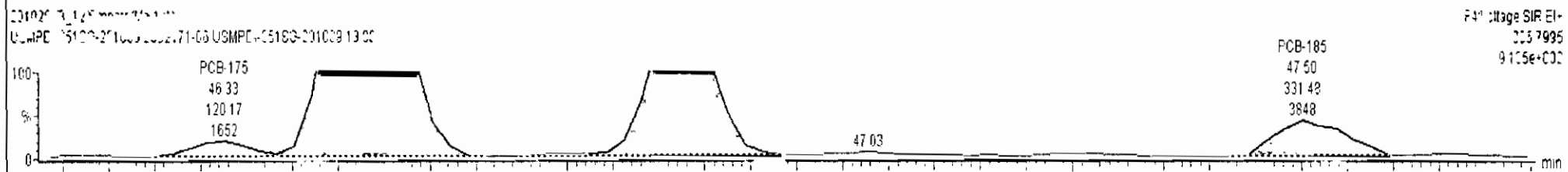
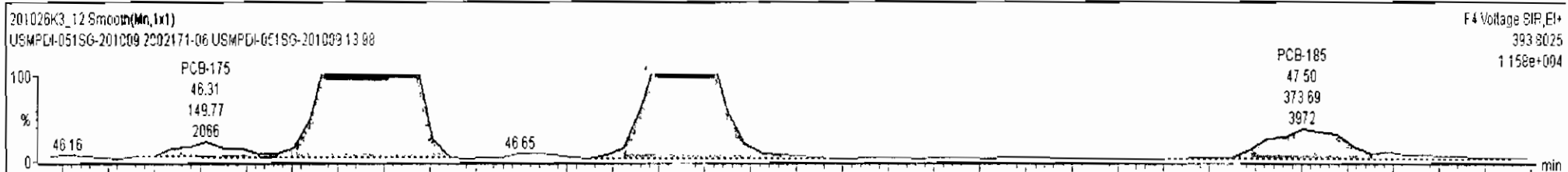




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#	Name	Resp	RA	n/y	RRF	wIvol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	118.5		7.09	142.2
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15
236	236 Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	7.118		0.789	8.624

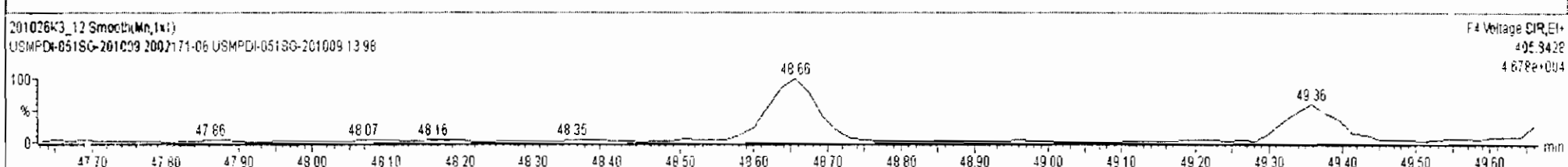
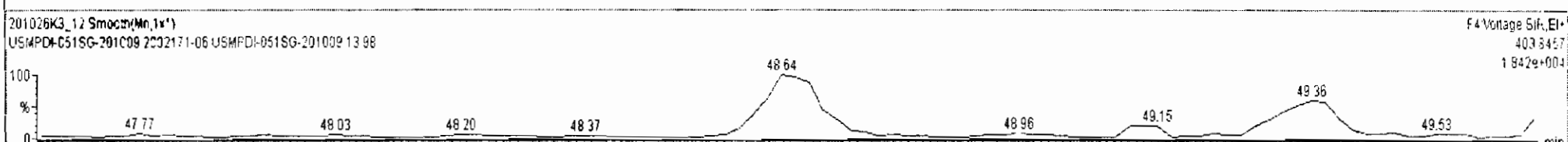
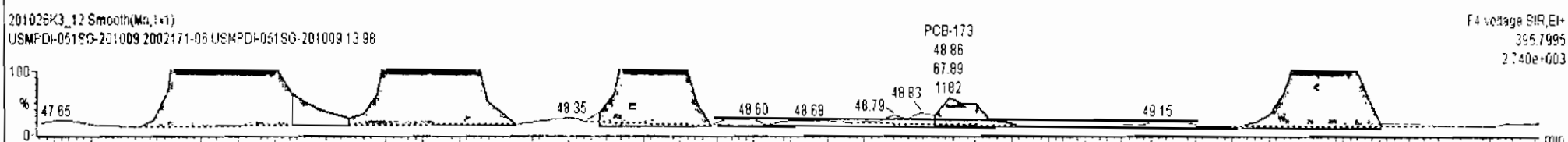
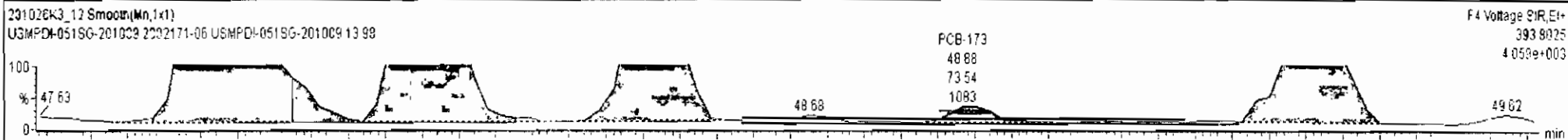
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
1	133 PCB-179	44.34	44.36	1.525e3	1.788e3	1.050	0.85	YES	6.8443	0.00000
2	134 PCB-176	44.83	44.81	5.235e2	4.883e2	1.050	1.07	NO	2.3075	2.3075
3	136 PCB-178	45.97	45.97	6.137e2	5.855e2	1.050	1.05	NO	3.7945	3.7945
4	137 PCB-175	46.33	46.31	1.496e2	1.202e2	1.050	1.25	YES	0.76888	0.00000



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#	Name	Resp	RA	n/y	RRF	wt/d	PredRT	RT	PredR...	RRT	RRT Fat	Conc	%Rec	DL	EMPC
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	121.8		7.09	142.4
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15
236	236 Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	7.118		0.789	8.624

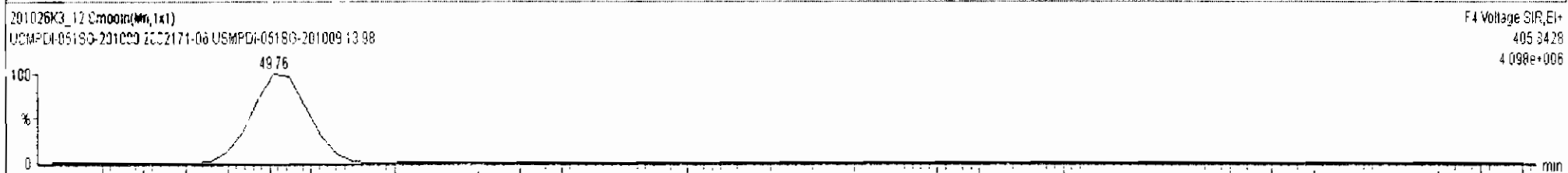
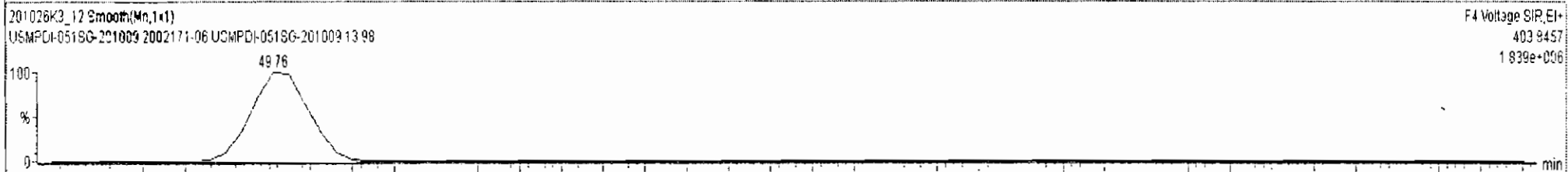
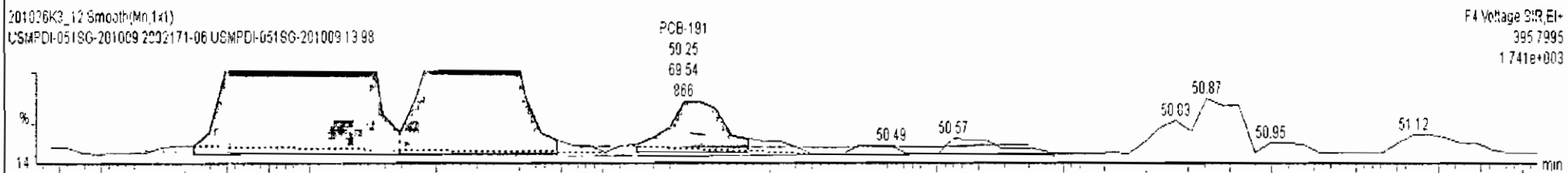
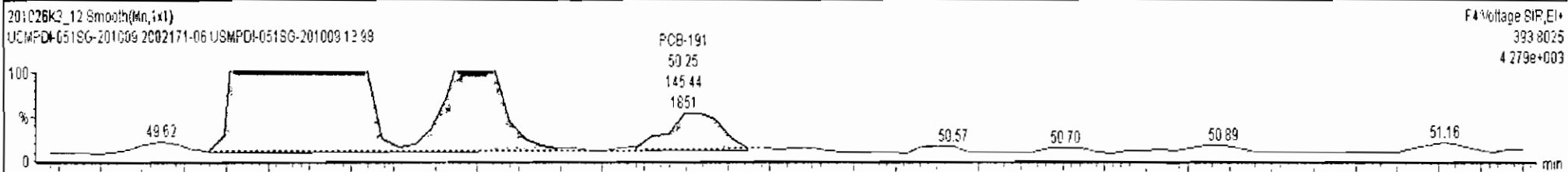
#	Name	PredRT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
8	141 PCB-174	47.87	47.88	3.126e3	2.937e3	1.050	1.06	NO	18.739	18.739
9	142 PCB-181	47.98	47.97	1.028e2	5.749e1	1.050	1.79	YES	0.33441	0.00000
10	143 PCB-177	48.16	48.14	1.505e3	1.564e3	1.050	0.86	NO	10.047	10.047
11	144 PCB-171	48.47	48.47	8.624e2	5.816e2	1.050	1.48	YES	3.7893	0.00000
12	145 PCB-173	48.89	48.88	7.354e1	6.789e1	1.050	1.08	NO	0.43725	0.49725
13	146 PCB-172	49.36	49.36	5.816e2	4.842e2	1.050	1.20	NO	3.2422	3.2422
14	148 PCB-187	49.77	49.79	6.794e3	6.577e3	1.050	1.04	NO	39.476	39.476



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#	Name	Resp	RA	nly	RRF	wtAval	Pred RT	RT	Pred R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
233	Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	121.9		7.09	142.6
234	4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	5th Function Octa-PCBs				1.1498	5.031	0.00		0.000		NO	0.0000		0.742	12.15
236	Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	7.118		0.789	8.624

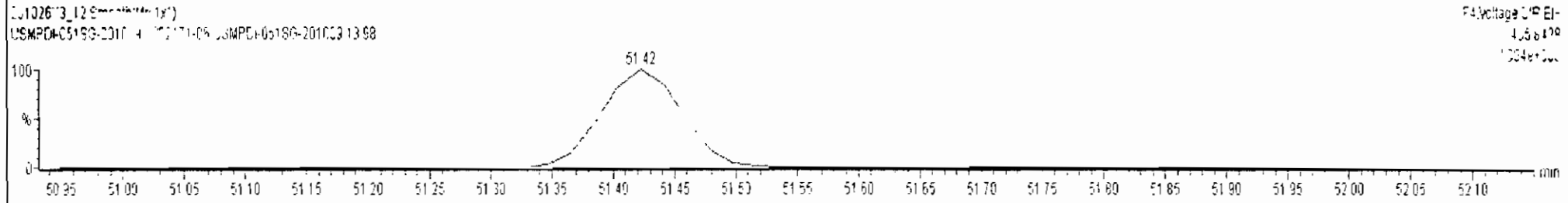
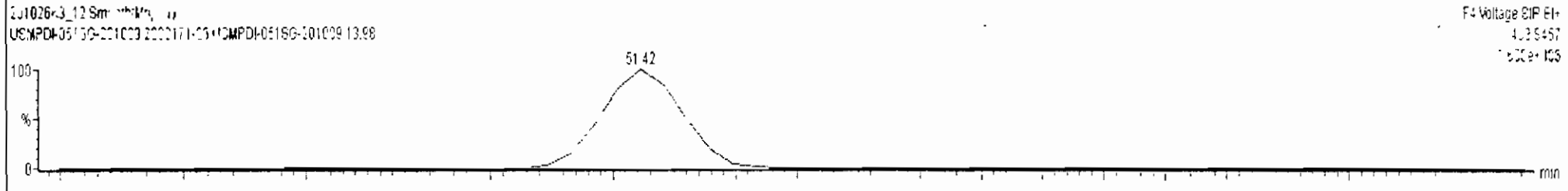
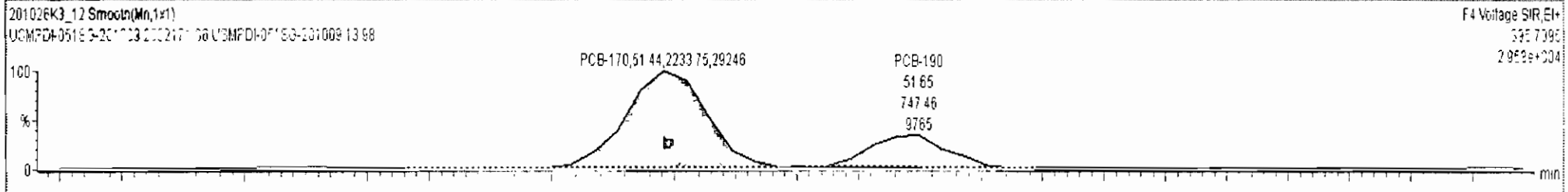
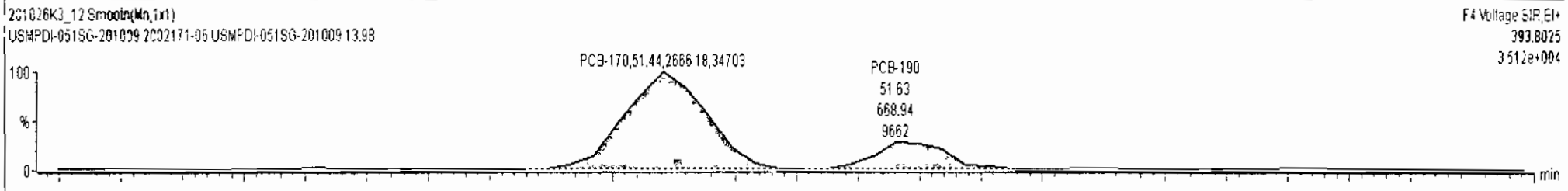
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	133 PCB-179	44.34	44.36	1.525e3	1.788e3	1.050	0.85	YES	6.8443	0.00020
2	134 PCB-176	44.83	44.81	5.235e2	4.883e2	1.050	1.07	NO	2.3075	2.3075
3	136 PCB-178	45.97	45.97	6.137e2	5.855e2	1.050	1.05	NO	3.7945	3.7945



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#	Name	Resp	RA	n/y	RRF	wt/wol	Pred RT	RT	Pred R...	RRT	RRT Fat	Conc	%Rec	DL	EMPC
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	122.1		7.09	142.3
234	234 4th Function Octa-PCBs				1.0009	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15
236	236 Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	7.118		0.789	8.624

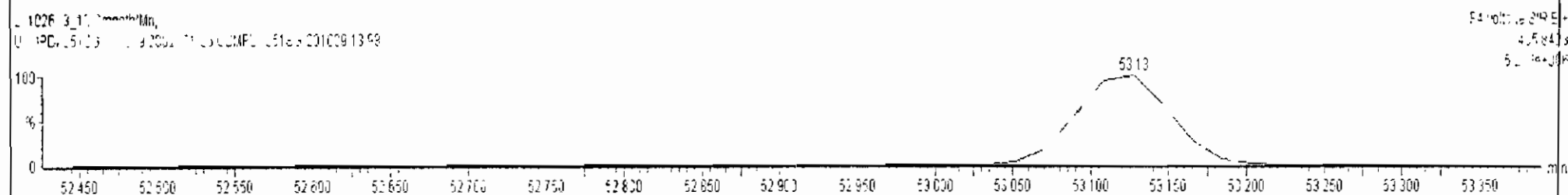
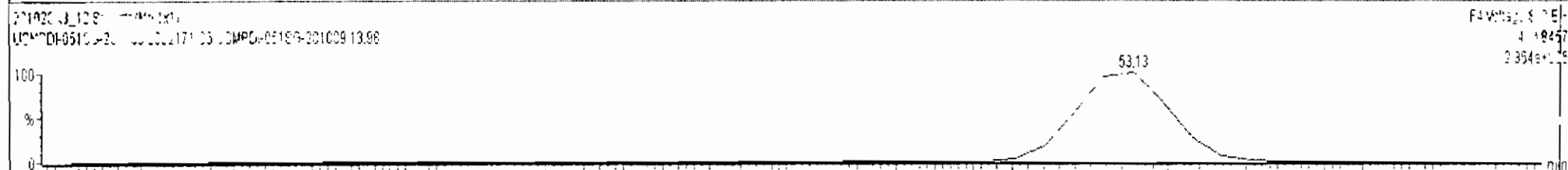
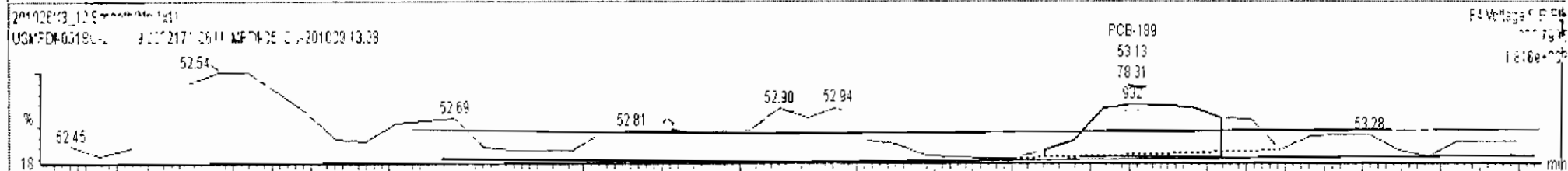
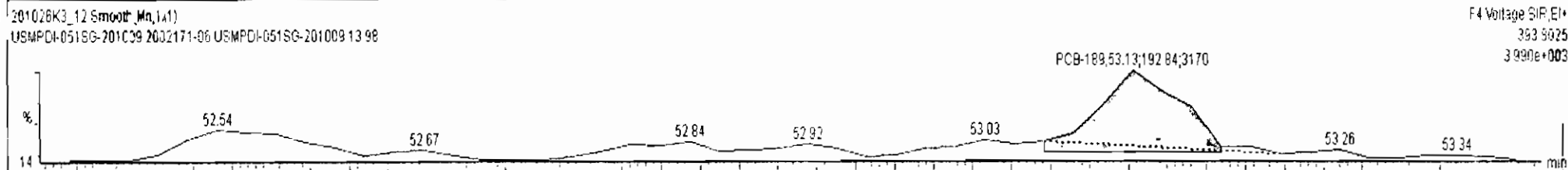
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
17	151 PCB-170	51.44	51.44	2.666e3	2.234e3	1.050	1.19	NO	17.190	17.190
18	152 PCB-190	51.65	51.63	6.689e2	7.475e2	1.050	0.89	NO	3.7602	3.7602



201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fal	Conc	%Pec	DL	EMPC
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	121.9		7.09	142.5
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	10.95		3.55	24.12
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15
236	236 Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	7.118		0.789	8.624

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	133 PCB-179	44.34	44.36	1.525e3	1.788e3	1.050	0.85	YES	6.8443	0.00000
2	134 PCB-176	44.83	44.81	5.235e2	4.883e2	1.050	1.07	NO	2.3075	2.3075
3	135 PCB-178	45.97	45.97	8.137e2	5.855e2	1.050	1.05	NO	3.7945	3.7945





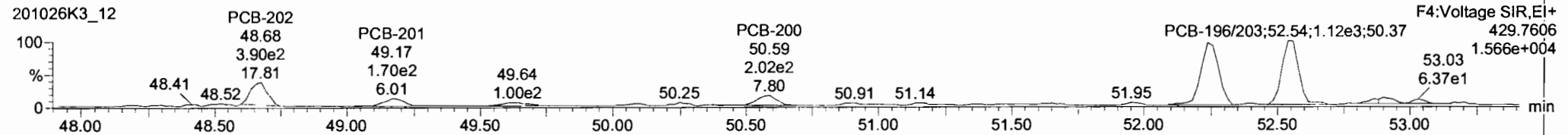
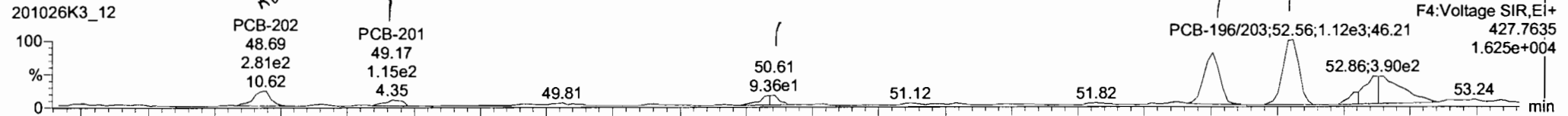
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Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time

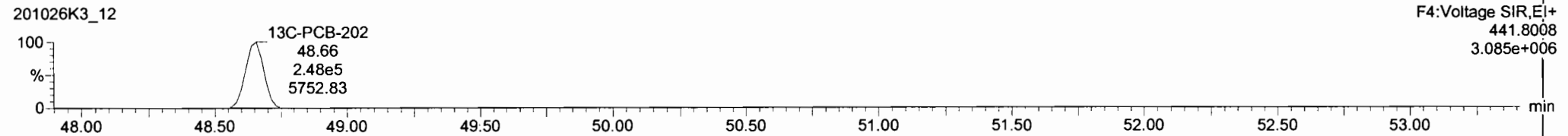
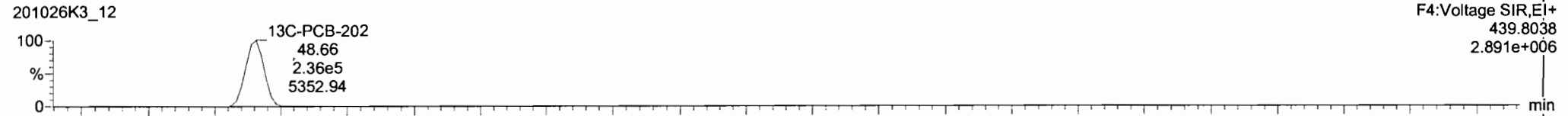
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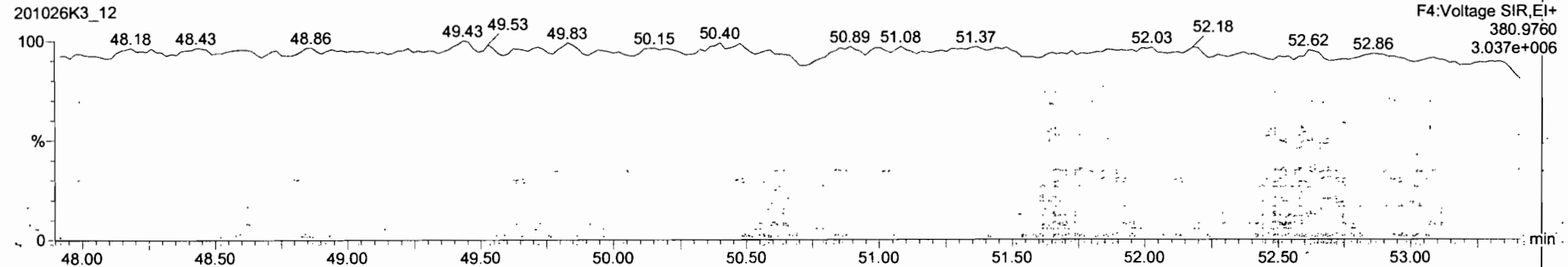
**PCB-202**



**13C-PCB-202**



**PFK4d**

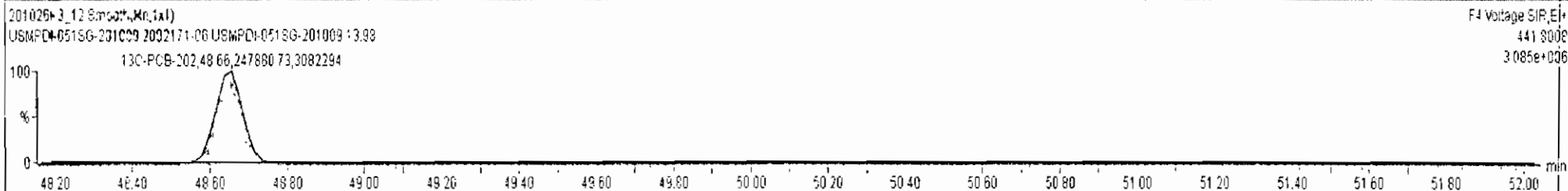
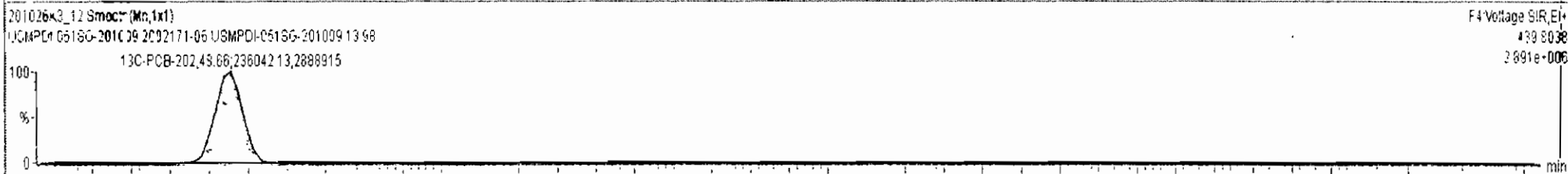
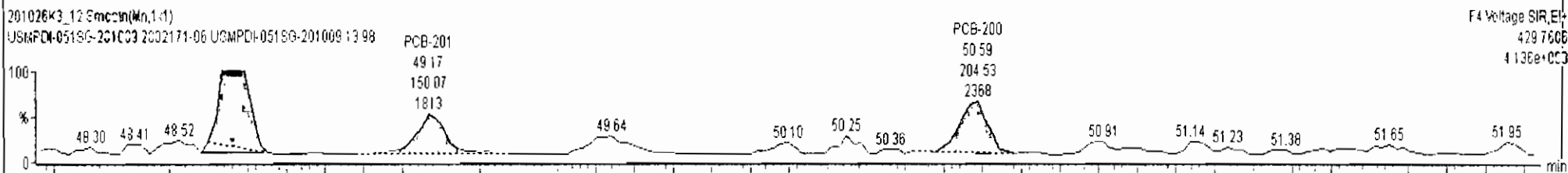
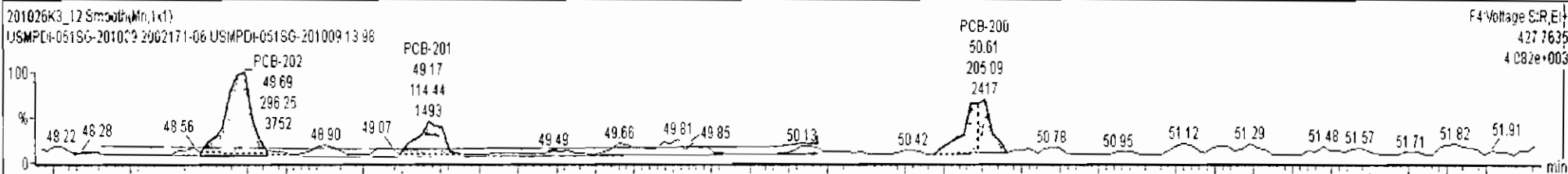


201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	122.1		7.09	142.3
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	13.55		3.55	25.00
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15
236	236 Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	7.118		0.789	8.624

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	nly	EMPC	Conc
1	154 PCB-202	48.69	48.69	2.952e2	4.360e2	0.890	0.68	YES	2.2119	0.00000
2	155 PCB-201	49.17	49.17	1.144e2	1.501e2	0.890	0.76	NO	1.0320	1.0320
3	158 PCB-200	50.57	50.61	2.051e2	2.045e2	0.890	1.00	NO	1.5720	1.5720

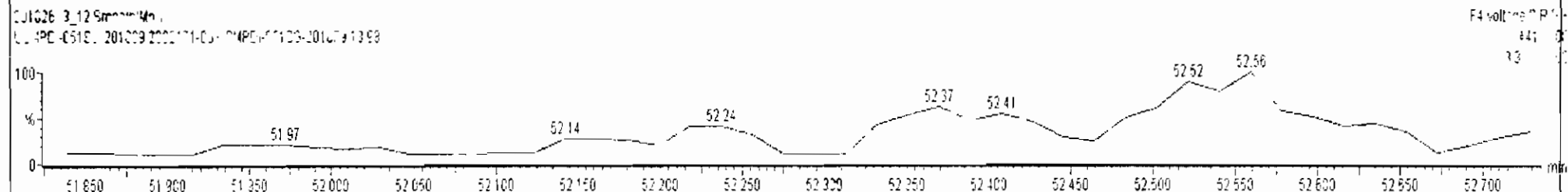
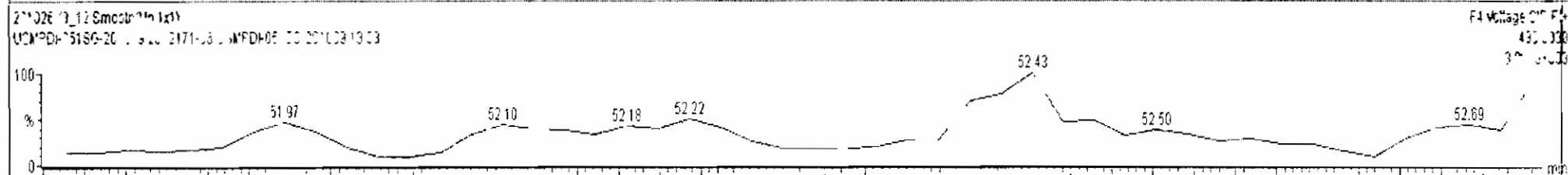
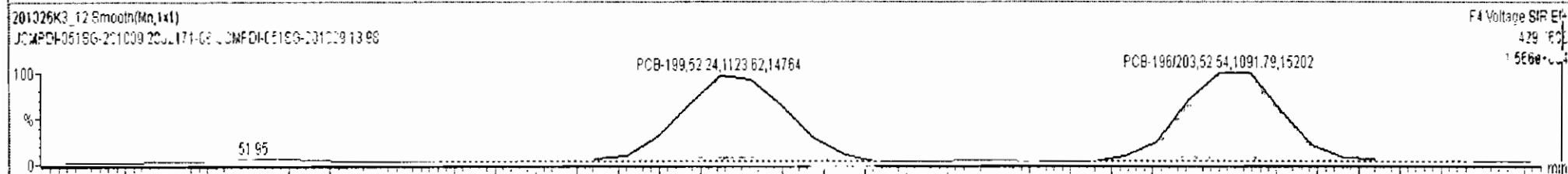
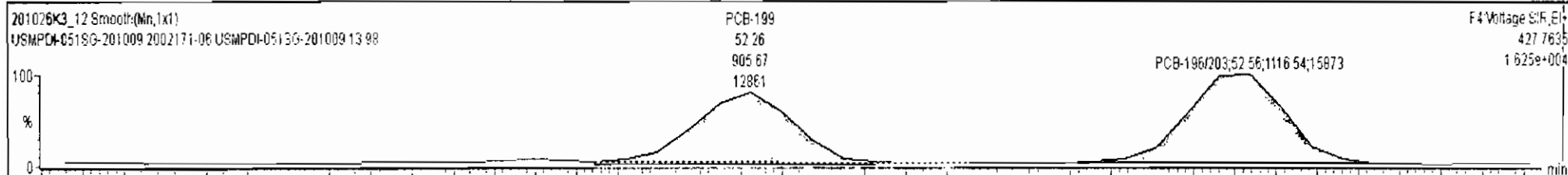
*2nd ch - on*



201026K3\_12 - 2002171-06 USMPDI-051SG-201009,13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Tol	Conc	%Rec	DL	EMPC
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	1221		7.09	142.3
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	23.73		3.55	25.94
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	0.0000		0.742	12.15
236	236 Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	7.118		0.789	8.624

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
3	158 PCB-200	50.57	50.61	2.051e2	2.045e2	0.890	1.00	NO	1.5720	1.5720
4	160 PCB-199	52.26	52.26	9.057e2	1.124e3	0.890	0.81	NO	10.300	10.300
5	161 PCB-196/203	52.55	52.56	1.117e3	1.092e3	0.890	1.02	NO	10.822	10.822

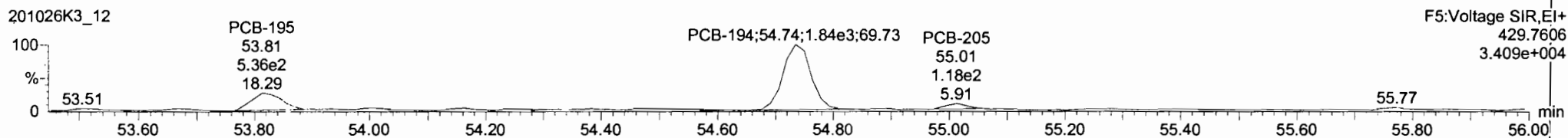
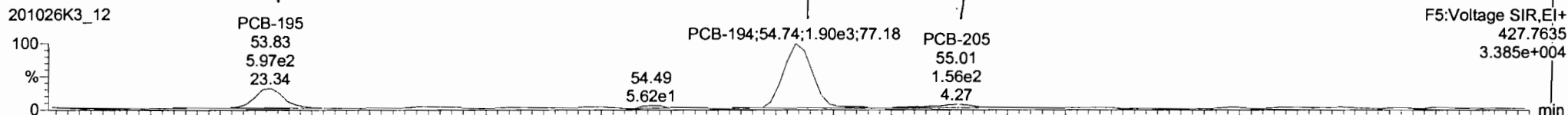


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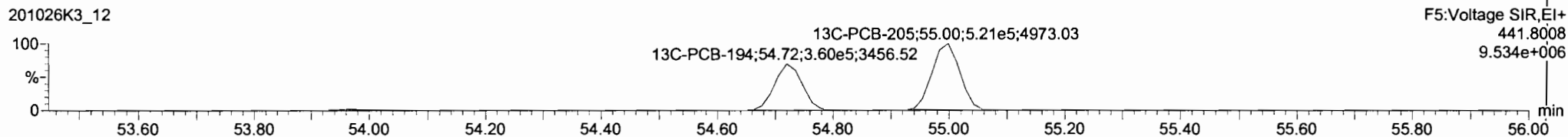
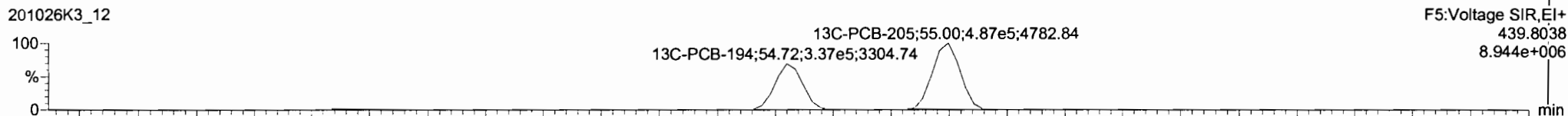
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

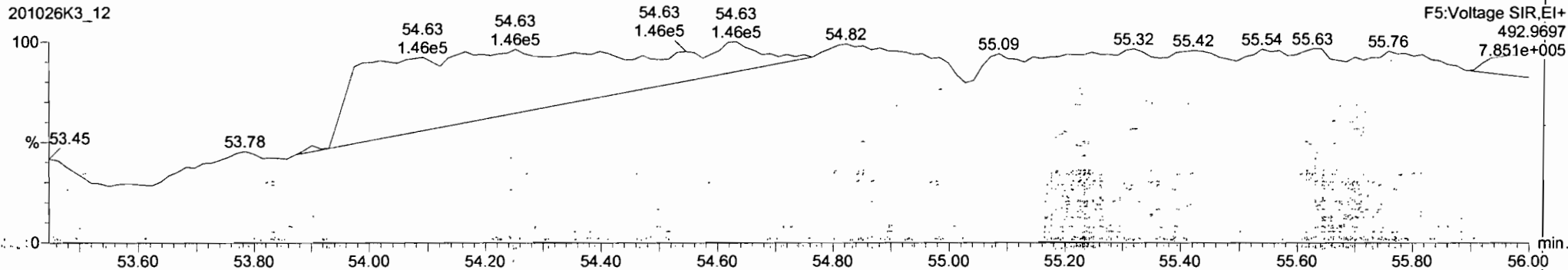
**PCB-195**

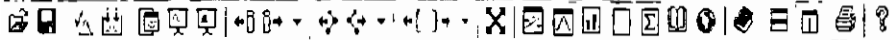


**13C-PCB-194**



**PFK5a**

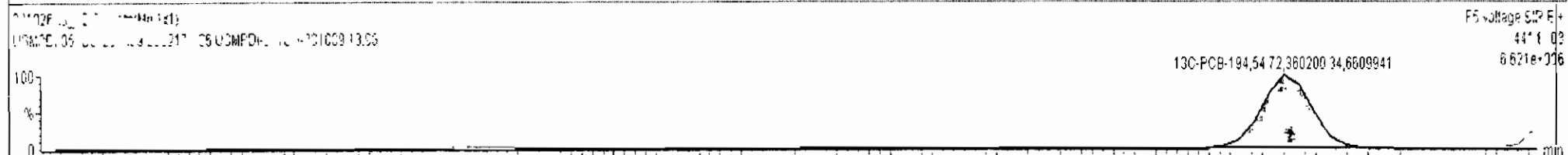
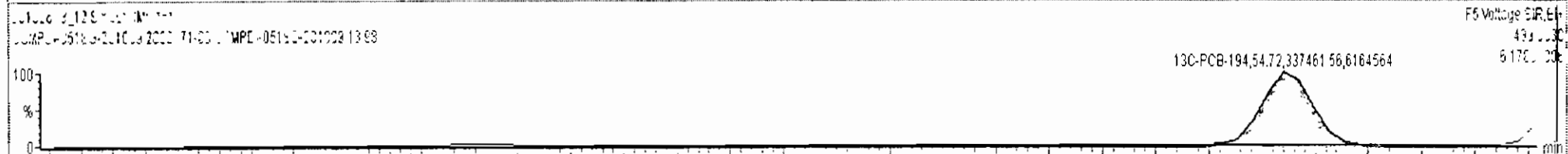
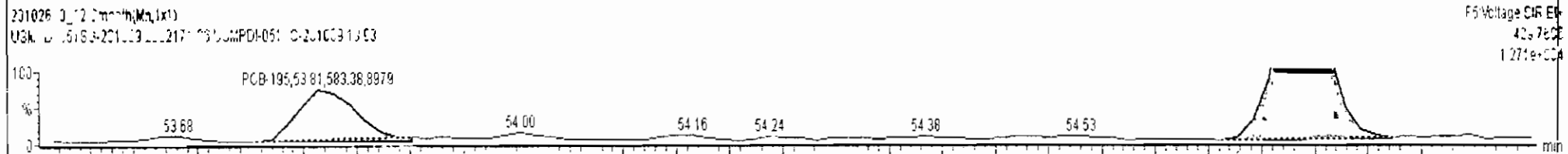
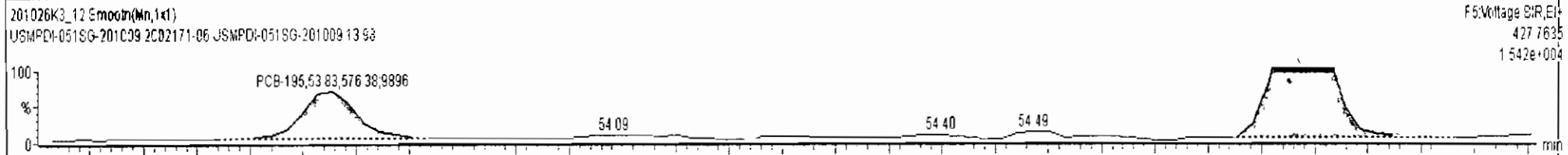




201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	PRT Fail	Conc	%Rec	DL	EMPC
233	Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	122.1		7.09	142.3
234	4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	23.73		3.55	25.94
235	5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	13.32		0.742	13.32
236	Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	7.118		0.789	8.624

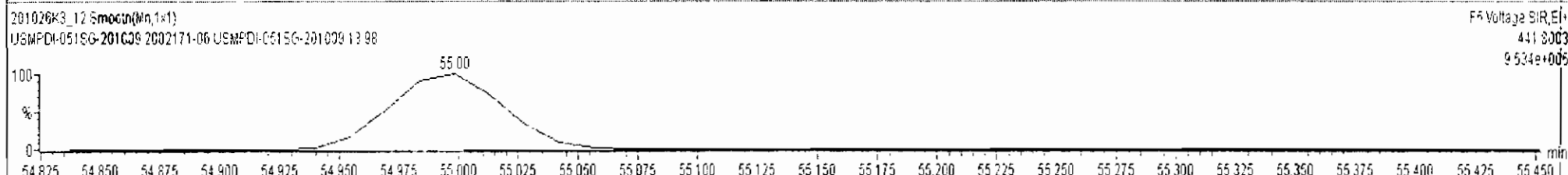
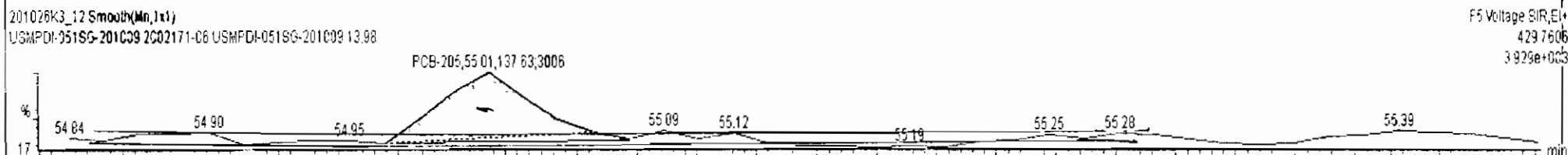
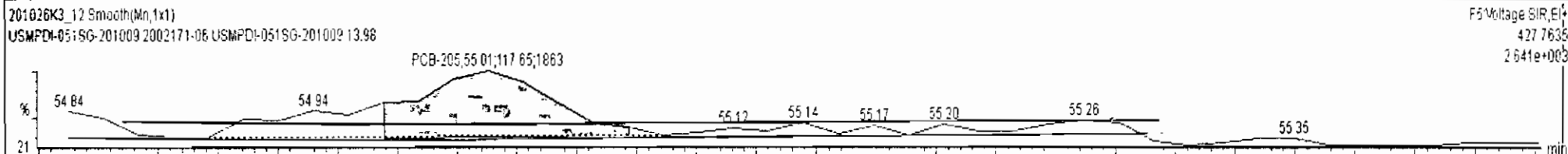
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	PCB-195	53.83	53.83	5.764e2	5.834e2	0.890	0.99	NO	3.1638	3.1638
2	PCB-194	54.74	54.74	1.877e3	1.876e3	0.890	1.00	NO	9.5881	9.5881
3	PCB-205	55.01	55.01	1.177e2	1.376e2	0.890	0.85	NO	0.56411	0.56411



201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	nly	RFf	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	1221		7.09	142.3
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	23.73		3.55	25.94
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	13.32		0.742	13.32
236	236 Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	7.118		0.789	8.624

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	162 PCB-195	53.83	53.83	5.764e2	5.834e2	0.890	0.99	NO	3.1638	3.1638
2	163 PCB-194	54.74	54.74	1.877e3	1.878e3	0.890	1.00	NO	9.5981	9.5981
3	164 PCB-205	55.01	55.01	1.177e2	1.376e2	0.890	0.85	NO	0.56411	0.56411

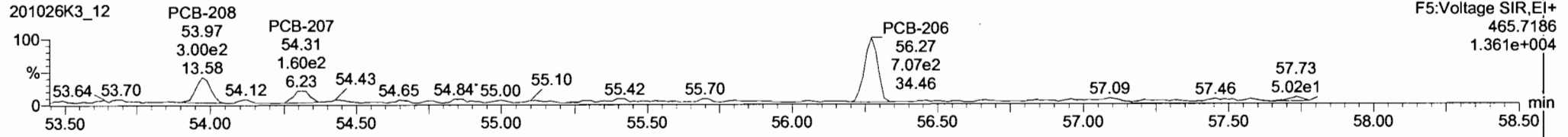
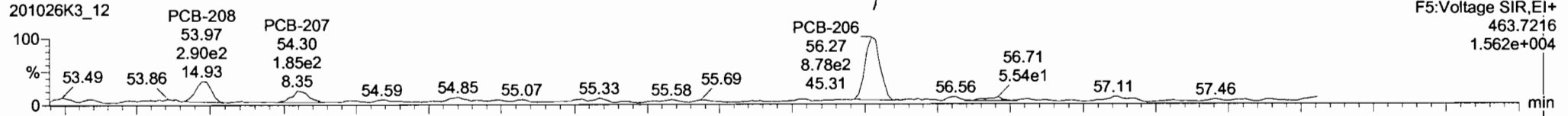


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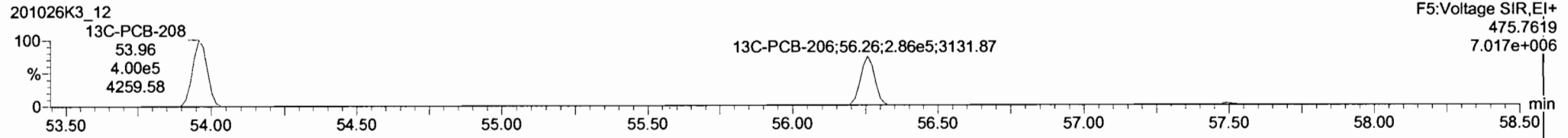
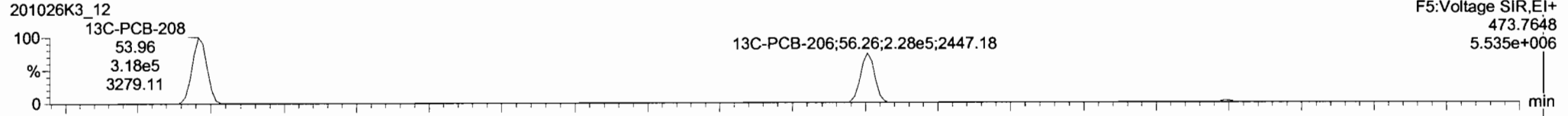
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

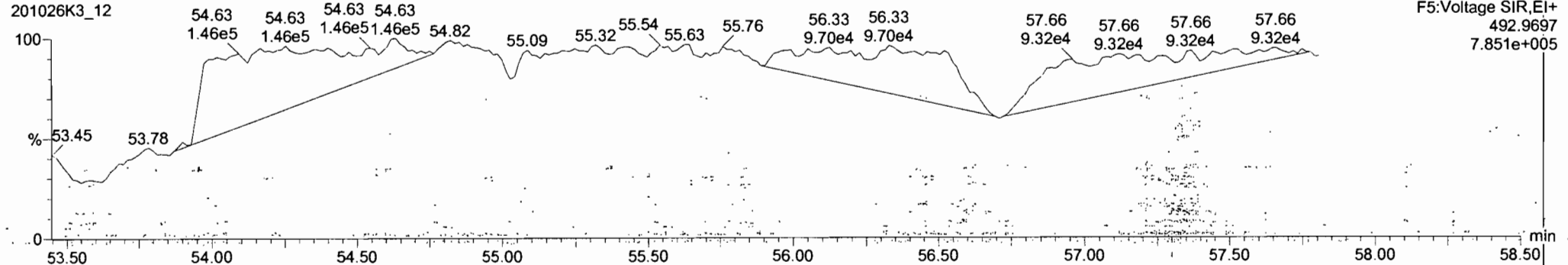
**PCB-208**



**13C-PCB-208**



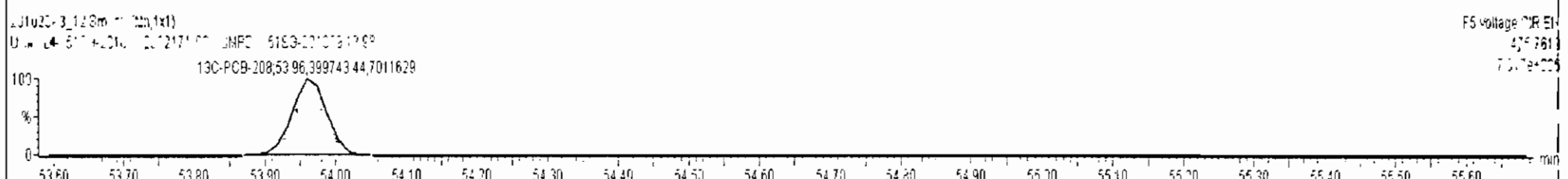
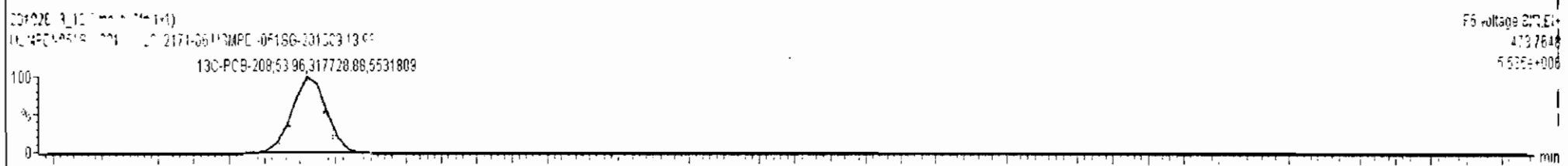
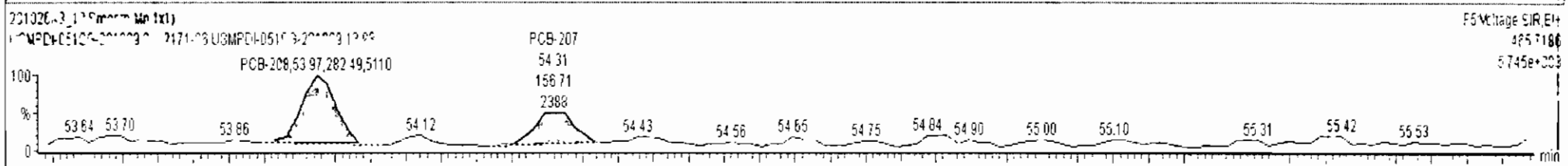
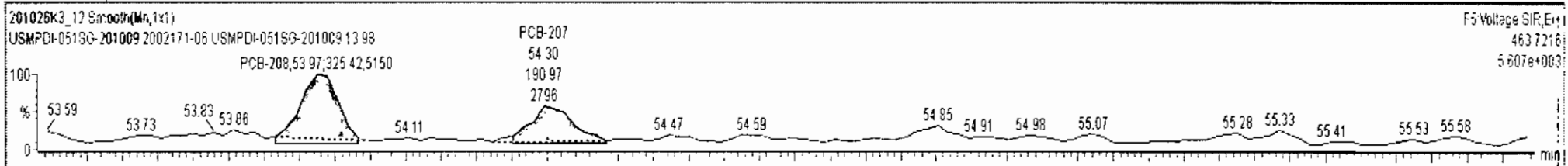
**PFK5**



201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	w/wd	Pred.RT	RT	Pred.R...	RRT	RRT Fat	Conc	%Rec	DL	EMPC
233	233 Total Hepta-PCBs				1.3551	5.031	0.00		0.000		NO	122.1		7.09	142.3
234	234 4th Function Octa-PCBs				1.0008	5.031	0.00		0.000		NO	23.73		3.55	25.94
235	235 5th Function Octa-PCBs				1.1499	5.031	0.00		0.000		NO	13.32		0.742	13.32
236	236 Total Nona-PCBs				0.9523	5.031	0.00		0.000		NO	8.931		0.789	8.931

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	165 PCB-208	53.98	53.97	3.254e2	2.825e2	1.340	1.15	NO	1.8050	1.8050
2	166 PCB-207	54.30	54.30	1.910e2	1.567e2	1.340	1.22	NO	1.0512	1.0512
3	167 PCB-206	56.27	56.27	8.775e2	7.074e2	1.340	1.24	NO	6.0750	6.0750





Dataset: Untitled

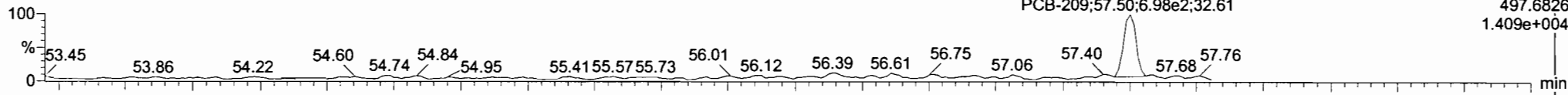
Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time

Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_12, Date: 27-Oct-2020, Time: 22:00:58, ID: 2002171-06 USMPDI-051SG-201009 13.98, Description: USMPDI-051SG-201009

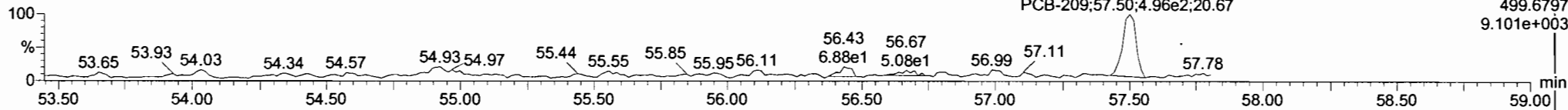
**PCB-209**

201026K3\_12



F5:Voltage SIR,EI+  
497.6826  
1.409e+004

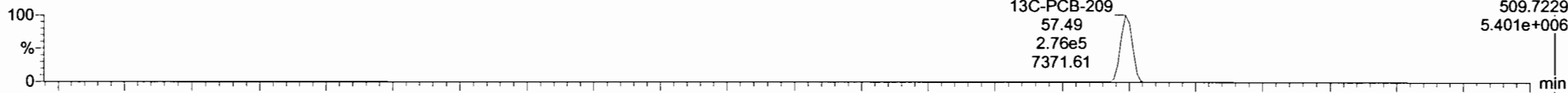
201026K3\_12



F5:Voltage SIR,EI+  
499.6797  
9.101e+003

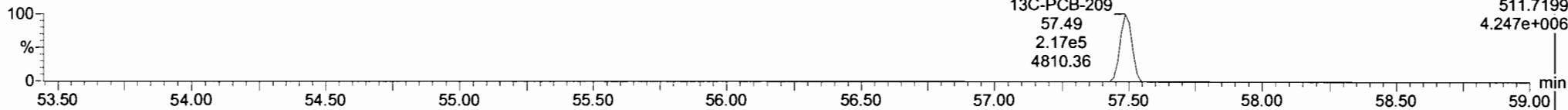
**13C-PCB-209**

201026K3\_12



F5:Voltage SIR,EI+  
509.7229  
5.401e+006

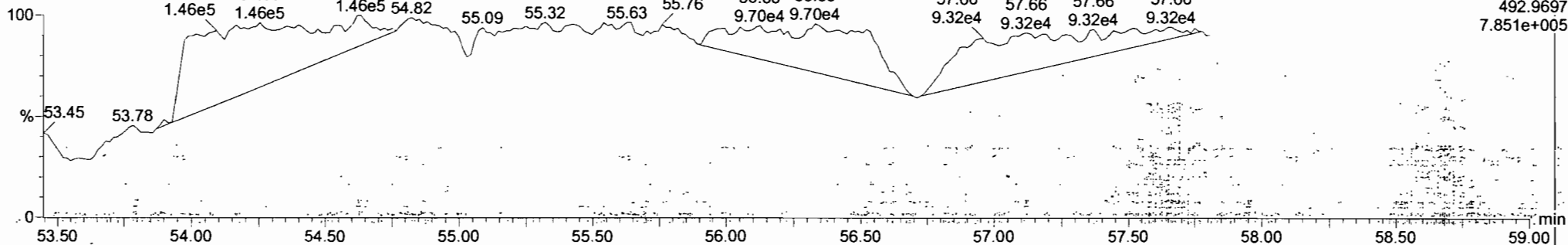
201026K3\_12



F5:Voltage SIR,EI+  
511.7199  
4.247e+006

**PFK5b**

201026K3\_12

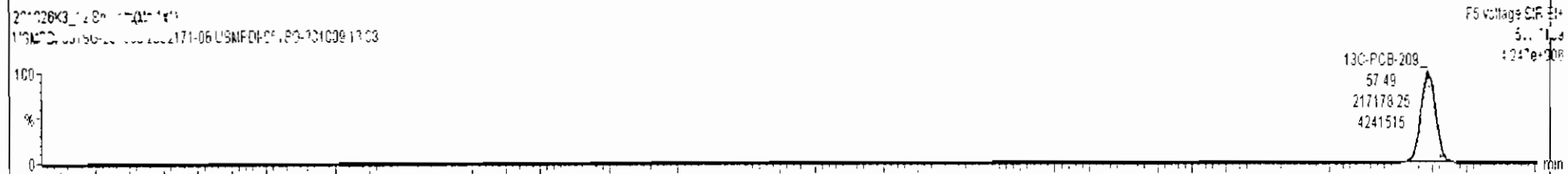
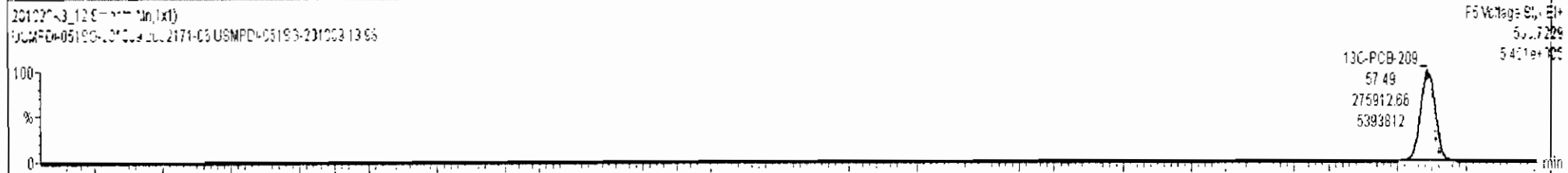
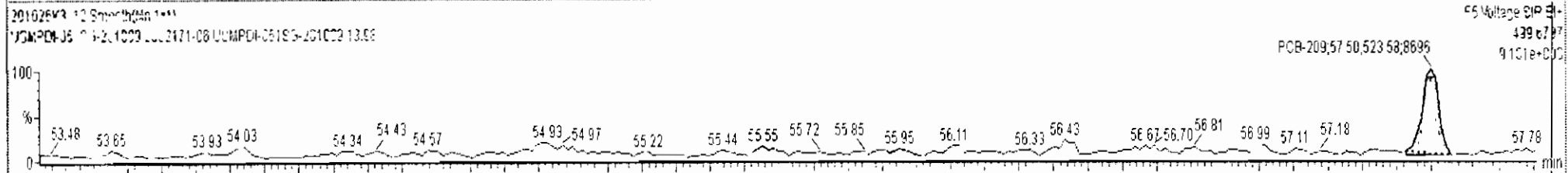
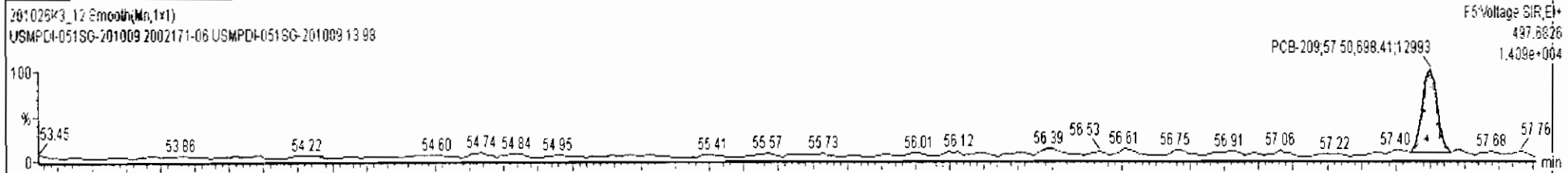


F5:Voltage SIR,EI+  
492.9697  
7.851e+005

201026K3\_12 - 2002171-06 USMPDI-051SG-201009 13.98 - USMPDI-051SG-201009

#	Name	Resp	RA	n/y	RRF	w/wol	Pred RT	RT	Pred.R...	RRT	RRT Fal	Conc	%Rec	DL	EMPC
237	237 Deca-CB				0.9864	5.031	0.00		0.000		NO	4.994		0.339	4.994
238	238 Total PCBs														
239	239 Total Mono-Isotopes														
240	240 Total Di-Isotopes														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
1	188 PCB-209	57.49	57.50	6.984e2	5.236e2	1.170	1.33	NO	4.9939	4.9939



Dataset: U:\VG11.PRO\Results\201026K3\201026K3-13.qld

Last Altered: Thursday, November 05, 2020 11:43:30 AM Pacific Standard Time

Printed: Thursday, November 05, 2020 11:45:51 AM Pacific Standard Time

*DF 11/05/20*

*CT 11/12/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec.	DL	EMPC
1	1 PCB-1	5.56e3	3.32	NO	1.17	5.142	15.60	15.60	1.001	1.001	NO	8.950		0.269	8.950
2	2 PCB-2	6.93e3	2.94	NO	1.18	5.142	18.02	18.01	0.988	0.988	NO	9.926		0.258	9.926
3	3 PCB-3	6.64e3	3.13	NO	1.15	5.142	18.25	18.25	1.001	1.001	NO	9.786		0.266	9.786
4	4 PCB-4/10	1.32e4	1.61	NO	1.25	5.142	19.67	19.61	1.004	1.001	NO	21.01		0.609	21.01
5	5 PCB-7/9	3.65e3	1.62	NO	0.960	5.142	21.47	21.44	1.003	1.001	NO	4.471		0.477	4.471
6	6 PCB-6	8.58e3	1.50	NO	1.02	5.142	22.12	22.12	1.033	1.033	NO	9.851		0.448	9.851
7	7 PCB-5/8	3.50e4	1.65	NO	0.992	5.142	22.53	22.52	1.052	1.052	NO	41.49		0.462	41.49
8	8 PCB-14			NO	1.02	5.142	23.68		0.951		YES			0.545	
9	9 PCB-11	4.10e4	1.58	NO	1.13	5.142	24.91	24.91	1.001	1.001	NO	46.32		0.492	46.32
10	10 PCB-12/13			NO	1.03	5.142	25.34		1.018		YES			0.540	
11	11 PCB-15	3.58e4	1.54	NO	1.03	5.142	25.63	25.62	1.030	1.029	NO	43.91		0.536	43.91
12	12 PCB-19	7.21e3	0.95	NO	1.11	5.142	23.86	23.85	1.001	1.001	NO	20.14		0.705	20.14
13	13 PCB-30			NO	1.79	5.142	24.76		1.039		YES			0.435	
14	14 PCB-18	2.50e4	1.00	NO	0.818	5.142	25.53	25.54	0.952	0.952	NO	59.11		0.599	59.11
15	15 PCB-17	1.60e4	1.02	NO	0.758	5.142	25.71	25.71	0.959	0.959	NO	40.77		0.646	40.77
16	16 PCB-24/27	4.18e3	1.03	NO	1.08	5.142	26.31	26.28	0.981	0.980	NO	7.454		0.453	7.454
17	17 PCB-16/32	2.61e4	1.02	NO	0.925	5.142	26.84	26.84	1.001	1.001	NO	54.49		0.529	54.49
18	18 PCB-34	1.39e3	1.10	NO	0.945	5.142	27.64	27.66	0.959	0.959	NO	1.710		0.448	1.710
19	19 PCB-23			NO	0.883	5.142	27.73		0.962		YES			0.479	
20	20 PCB-29			NO	0.893	5.142	27.99		0.971		YES			0.474	
21	21 PCB-26	2.64e4	1.05	NO	0.944	5.142	28.22	28.22	0.979	0.979	NO	32.38		0.448	32.38
22	22 PCB-25	1.49e4	1.05	NO	0.950	5.142	28.37	28.38	0.984	0.985	NO	18.18		0.446	18.18
23	23 PCB-31	1.17e5	1.03	NO	1.04	5.142	28.75	28.76	0.997	0.997	NO	131.4		0.408	131.4
24	24 PCB-28	1.55e5	1.03	NO	1.03	5.142	28.85	28.85	1.001	1.001	NO	175.6		0.413	175.6
25	25 PCB-20/21/33	6.55e4	1.08	NO	0.941	5.142	29.49	29.52	1.023	1.024	NO	80.72		0.450	80.72
26	26 PCB-22	4.07e4	1.00	NO	0.973	5.142	29.93	29.95	1.038	1.039	NO	48.45		0.435	48.45
27	27 PCB-36			NO	1.08	5.142	30.65		0.931		YES			0.427	
28	28 PCB-39	1.24e3	1.24	YES	0.988	5.142	31.15	31.08	0.947	0.945	NO	1.471		0.465	1.338
29	29 PCB-38	2.58e3	0.98	NO	1.05	5.142	31.94	31.88	0.970	0.969	NO	2.889		0.437	2.889
30	30 PCB-35	3.31e3	1.23	YES	1.04	5.142	32.49	32.46	0.987	0.986	NO	3.725		0.441	3.404
31	31 PCB-37	4.70e4	1.07	NO	1.01	5.142	32.93	32.93	1.001	1.001	NO	54.81		0.456	54.81

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-13.qld

Last Altered: Thursday, November 05, 2020 11:43:30 AM Pacific Standard Time

Printed: Thursday, November 05, 2020 11:45:51 AM Pacific Standard Time

Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 PCB-54	2.30e3	0.75	NO	1.08	5.142	27.70	27.70	1.001	1.001	NO	4.420		0.370	4.420
33	33 PCB-50	6.27e2	0.56	YES	0.880	5.142	28.91	28.91	1.044	1.044	NO	1.377		0.454	1.223
34	34 PCB-53	1.80e4	0.76	NO	0.997	5.142	29.58	29.58	0.944	0.944	NO	43.38		0.483	43.38
35	35 PCB-51	9.60e3	0.81	NO	1.07	5.142	29.93	29.91	0.955	0.954	NO	21.65		0.452	21.65
36	36 PCB-45	1.09e4	0.72	NO	0.858	5.142	30.38	30.36	0.969	0.969	NO	30.58		0.560	30.58
37	37 PCB-46	5.23e3	0.80	NO	0.831	5.142	30.88	30.86	0.985	0.985	NO	15.12		0.579	15.12
38	38 PCB-52/69	2.18e5	0.78	NO	1.17	5.142	31.38	31.36	1.001	1.001	NO	449.0		0.412	449.0
39	39 PCB-73	1.04e3	0.70	NO	1.44	5.142	31.49	31.45	1.005	1.004	NO	1.735		0.333	1.735
40	40 PCB-43/49	1.14e5	0.81	NO	1.02	5.142	31.67	31.68	1.010	1.011	NO	270.0		0.473	270.0
41	41 PCB-47	4.88e4	0.76	NO	0.922	5.142	31.88	31.90	1.001	1.001	NO	117.6		0.496	117.6
42	42 PCB-48/75	2.16e4	0.77	NO	1.12	5.142	32.00	32.01	1.004	1.005	NO	42.72		0.408	42.72
43	43 PCB-65			NO	1.28	5.142	32.28		1.013		YES			0.356	
44	44 PCB-62			NO	1.13	5.142	32.37		1.016		YES			0.405	
45	45 PCB-44	1.05e5	0.77	NO	0.824	5.142	32.70	32.76	1.026	1.028	NO	282.5		0.555	282.5
46	46 PCB-42/59	3.48e4	0.81	NO	1.05	5.142	32.93	32.98	1.033	1.035	NO	73.68		0.435	73.68
47	47 PCB-41/64/71/72	1.09e5	0.82	NO	1.19	5.142	33.54	33.54	1.053	1.053	NO	204.0		0.385	204.0
48	48 PCB-68	1.20e3	0.72	NO	1.28	5.142	33.80	33.80	1.061	1.061	NO	2.082		0.358	2.082
49	49 PCB-40	1.32e4	0.75	NO	0.602	5.142	34.02	34.02	1.067	1.068	NO	48.79		0.759	48.79
50	50 PCB-57	1.15e3	0.61	YES	1.16	5.142	34.38	34.40	0.969	0.970	NO	1.839		0.311	1.601
51	51 PCB-67	4.31e3	0.74	NO	1.08	5.142	34.69	34.71	0.978	0.979	NO	7.405		0.334	7.405
52	52 PCB-58	1.09e3	0.82	NO	1.20	5.142	34.82	34.82	0.982	0.982	NO	1.693		0.301	1.693
53	53 PCB-63	7.10e3	0.84	NO	1.07	5.142	34.97	34.99	0.986	0.986	NO	12.34		0.338	12.34
54	54 PCB-74	7.95e4	0.79	NO	1.19	5.142	35.28	35.29	0.994	0.995	NO	124.9		0.306	124.9
55	55 PCB-61/70	2.49e5	0.78	NO	1.05	5.142	35.49	35.51	1.000	1.001	NO	440.5		0.344	440.5
56	56 PCB-76/66	1.87e5	0.79	NO	1.16	5.142	35.68	35.72	1.006	1.007	NO	299.4		0.311	299.4
57	57 PCB-80			NO	1.19	5.142	35.95		1.001		YES			0.285	
58	58 PCB-55	3.08e3	0.66	NO	1.17	5.142	36.28	36.26	1.010	1.009	NO	4.601		0.290	4.601
59	59 PCB-56/60	1.06e5	0.79	NO	1.02	5.142	36.77	36.78	1.024	1.024	NO	181.9		0.333	181.9
60	60 PCB-79	5.23e3	0.75	NO	1.14	5.142	37.90	37.89	1.055	1.055	NO	8.025		0.297	8.025
61	61 PCB-78	8.25e2	0.73	NO	1.14	5.142	38.60	38.54	0.987	0.985	NO	1.288		0.313	1.288
62	62 PCB-81	2.69e3	0.67	NO	1.05	5.142	39.14	39.18	1.000	1.001	NO	4.550		0.340	4.550
63	63 PCB-77	2.13e4	0.85	NO	1.14	5.142	39.76	39.75	1.000	1.000	NO	34.30		0.322	34.30
64	64 PCB-104			NO	1.12	5.142	32.61		1.001		YES			0.447	
65	65 PCB-96	1.31e3	1.68	NO	1.15	5.142	33.92	33.86	1.041	1.039	NO	3.782		0.435	3.782

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-13.qld

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Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec...	DL	EMPC
66	66 PCB-103	3.68e3	1.88	YES	0.936	5.142	34.47	34.41	1.058	1.056	NO	13.11		0.536	11.66
67	67 PCB-100	2.71e3	1.90	YES	0.954	5.142	34.85	34.77	1.069	1.067	NO	9.485		0.528	8.378
68	68 PCB-94	1.04e3	1.42	NO	0.949	5.142	35.27	35.25	0.985	0.985	NO	4.376		0.564	4.376
69	69 PCB-95/98/102	1.57e5	1.57	NO	1.20	5.142	35.74	35.81	0.999	1.001	NO	516.9		0.444	516.9
70	70 PCB-93			NO	0.935	5.142	35.89		1.003		YES			0.572	
71	71 PCB-88/91	2.67e4	1.61	NO	1.06	5.142	36.22	36.22	1.012	1.012	NO	99.76		0.502	99.76
72	72 PCB-121			NO	1.71	5.142	36.33		1.015		YES			0.313	
73	73 PCB-84/92	8.27e4	1.63	NO	1.02	5.142	37.17	37.17	0.990	0.990	NO	321.9		0.544	321.9
74	74 PCB-89	1.71e3	1.47	NO	1.11	5.142	37.36	37.35	0.995	0.995	NO	6.117		0.501	6.117
75	75 PCB-90/101	2.27e5	1.60	NO	1.12	5.142	37.55	37.56	1.000	1.000	NO	800.0		0.493	800.0
76	76 PCB-113			NO	1.51	5.142	37.80		1.007		YES			0.366	
77	77 PCB-99	9.74e4	1.61	NO	1.32	5.142	37.90	37.89	1.010	1.009	NO	291.8		0.419	291.8
78	78 PCB-119	8.57e3	1.61	NO	1.81	5.142	38.38	38.38	0.987	0.987	NO	21.24		0.348	21.24
79	79 PCB-108/112	9.68e3	1.54	NO	1.44	5.142	38.53	38.54	0.991	0.991	NO	29.94		0.435	29.94
80	80 PCB-83			NO	1.83	5.142	38.71		0.996		YES			0.343	
81	81 PCB-97	5.64e4	1.62	NO	1.28	5.142	38.90	38.90	1.000	1.000	NO	196.9		0.491	196.9
82	82 PCB-86			NO	1.12	5.142	39.07		1.005		YES			0.563	
83	83 PCB-87/117/125	8.37e4	1.61	NO	1.56	5.142	39.19	39.20	1.008	1.008	NO	240.0		0.404	240.0
84	84 PCB-111/115	4.30e3	2.08	YES	1.91	5.142	39.35	39.35	1.012	1.012	NO	10.07		0.329	8.375
85	85 PCB-85/116	3.11e4	1.54	NO	1.41	5.142	39.47	39.46	1.015	1.015	NO	98.60		0.446	98.60
86	86 PCB-120			NO	2.01	5.142	39.74		1.022		YES			0.314	
87	87 PCB-110	2.77e5	1.62	NO	1.74	5.142	39.89	39.87	1.026	1.025	NO	710.1		0.361	710.1
88	88 PCB-82	1.82e4	1.62	NO	0.781	5.142	40.50	40.52	0.975	0.976	NO	76.81		0.584	76.81
89	89 PCB-124	9.70e3	1.63	NO	1.40	5.142	41.21	41.22	0.993	0.993	NO	22.92		0.327	22.92
90	90 PCB-107/109	1.79e4	1.54	NO	1.34	5.142	41.35	41.39	0.996	0.997	NO	44.07		0.340	44.07
91	91 PCB-123	3.50e3	1.29	YES	1.20	5.142	41.54	41.56	1.000	1.001	NO	9.628		0.381	8.920
92	92 PCB-106/118	2.20e5	1.62	NO	1.22	5.142	41.75	41.75	1.001	1.001	NO	577.3		0.372	577.3
93	93 PCB-114	8.42e3	1.60	NO	1.14	5.142	42.41	42.40	1.000	1.000	NO	12.16		0.472	12.16
94	94 PCB-122	3.83e3	1.45	NO	0.944	5.142	42.55	42.56	1.004	1.004	NO	6.682		0.571	6.682
95	95 PCB-105	1.50e5	1.60	NO	1.05	5.142	43.29	43.29	1.000	1.000	NO	238.2		0.523	238.2
96	96 PCB-127			NO	1.06	5.142	43.65		1.000		YES			0.476	
97	97 PCB-126	2.25e3	1.68	NO	1.17	5.142	45.61	45.63	1.000	1.001	NO	3.529		0.534	3.529
98	98 PCB-155	1.02e2	0.62	YES	1.04	5.142	37.07	37.07	1.000	1.001	NO	0.5183		0.221	0.3567
99	99 PCB-150	4.89e2	0.99	YES	1.08	5.142	38.38	38.40	1.036	1.036	NO	2.383		0.213	2.144

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Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
100	1... PCB-152	3.28e2	1.32	NO	1.19	5.142	38.86	38.88	1.049	1.049	NO	1.461		0.194	1.461
101	1... PCB-145			NO	1.19	5.142	39.33		1.061		YES			0.194	
102	1... PCB-136	2.23e4	1.35	NO	1.02	5.142	39.66	39.66	1.070	1.070	NO	115.4		0.226	115.4
103	1... PCB-148	5.59e2	1.01	YES	0.842	5.142	39.76	39.77	1.073	1.073	NO	3.505		0.274	3.186
104	1... PCB-154	3.14e3	1.33	NO	0.919	5.142	40.28	40.29	1.087	1.087	NO	18.04		0.251	18.04
105	1... PCB-151	3.01e4	1.28	NO	0.787	5.142	40.95	40.95	1.105	1.105	NO	201.8		0.293	201.8
106	1... PCB-135	1.72e4	1.30	NO	0.922	5.142	41.17	41.17	1.111	1.111	NO	98.44		0.250	98.44
107	1... PCB-144	5.64e3	1.15	NO	0.789	5.142	41.28	41.28	1.114	1.114	NO	37.76		0.292	37.76
108	1... PCB-147	2.78e3	1.23	NO	0.834	5.142	41.41	41.41	1.117	1.118	NO	17.61		0.276	17.61
109	1... PCB-139/149	1.04e5	1.30	NO	0.948	5.142	41.70	41.67	1.125	1.125	NO	580.1		0.243	580.1
110	1... PCB-140	1.01e3	1.16	NO	0.794	5.142	41.88	41.88	1.130	1.130	NO	6.729		0.290	6.729
111	1... PCB-134/143	1.38e4	1.26	NO	0.759	5.142	42.33	42.35	0.974	0.975	NO	42.26		0.642	42.26
112	1... PCB-131/133	9.40e3	1.29	NO	0.821	5.142	42.65	42.65	0.982	0.982	NO	26.54		0.594	26.54
113	1... PCB-142	3.78e2	0.90	YES	0.754	5.142	42.81	42.80	0.985	0.985	NO	1.164		0.646	0.9906
114	1... PCB-146/165	5.86e4	1.27	NO	1.02	5.142	43.05	43.05	0.991	0.991	NO	133.5		0.479	133.5
115	1... PCB-132/161	9.40e4	1.25	NO	1.02	5.142	43.29	43.31	0.997	0.997	NO	212.8		0.476	212.8
116	1... PCB-153	3.50e5	1.27	NO	1.07	5.142	43.46	43.47	1.000	1.000	NO	756.7		0.455	756.7
117	1... PCB-168	5.20e2	1.01	YES	1.08	5.142	43.69	43.67	1.006	1.005	NO	1.118		0.482	1.015
118	1... PCB-141	5.59e4	1.26	NO	1.03	5.142	44.22	44.22	1.000	1.000	NO	151.5		0.574	151.5
119	1... PCB-137	9.71e3	1.42	NO	1.11	5.142	44.62	44.62	1.009	1.009	NO	24.33		0.530	24.33
120	1... PCB-130	1.58e4	1.17	NO	0.885	5.142	44.71	44.73	1.012	1.012	NO	49.65		0.665	49.65
121	1... PCB-138/163/164	3.65e5	1.28	NO	1.28	5.142	45.11	45.11	1.001	1.001	NO	794.4		0.454	794.4
122	1... PCB-158/160	3.38e4	1.27	NO	1.24	5.142	45.38	45.34	1.007	1.006	NO	75.95		0.470	75.95
123	1... PCB-129	8.95e3	1.30	NO	0.867	5.142	45.61	45.61	1.012	1.012	NO	28.81		0.672	28.81
124	1... PCB-166	1.22e3	0.94	YES	1.14	5.142	46.08	46.08	0.993	0.993	NO	2.504		0.489	2.186
125	1... PCB-159			NO	1.22	5.142	46.43		1.001		YES			0.431	
126	1... PCB-128/162	4.18e4	1.27	NO	0.907	5.142	46.71	46.70	1.007	1.007	NO	108.1		0.578	108.1
127	1... PCB-167	1.32e4	1.27	NO	1.11	5.142	47.12	47.14	1.000	1.001	NO	27.36		0.451	27.36
128	1... PCB-156	3.33e4	1.32	NO	1.13	5.142	48.47	48.47	1.000	1.000	NO	68.91		0.456	68.91
129	1... PCB-157	6.35e3	1.28	NO	1.04	5.142	48.73	48.73	1.000	1.000	NO	14.33		0.479	14.33
130	1... PCB-169			NO	1.16	5.142	51.03		1.000		YES			0.484	
131	1... PCB-188	2.96e2	1.59	YES	1.29	5.142	43.11	43.09	1.001	1.000	NO	0.775		0.321	0.6147
132	1... PCB-184	1.78e2	1.19	NO	1.23	5.142	43.56	43.56	1.011	1.011	NO	0.4889		0.336	0.4889
133	1... PCB-179	4.22e4	1.04	NO	1.30	5.142	44.36	44.34	1.030	1.029	NO	110.2		0.319	110.2

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
134	1... PCB-176	1.20e4	1.18	NO	1.31	5.142	44.85	44.83	1.041	1.041	NO	31.11		0.316	31.11
135	1... PCB-186			NO	1.33	5.142	45.47		1.056		YES			0.311	
136	1... PCB-178	1.42e4	0.95	NO	0.943	5.142	45.99	45.97	1.068	1.067	NO	50.83		0.438	50.83
137	1... PCB-175	2.84e3	0.91	NO	0.956	5.142	46.35	46.33	1.076	1.076	NO	10.04		0.432	10.04
138	1... PCB-182/187	9.12e4	1.04	NO	1.07	5.142	46.52	46.50	1.080	1.080	NO	289.6		0.388	289.6
139	1... PCB-183	4.00e4	1.04	NO	1.02	5.142	46.84	46.84	1.088	1.088	NO	132.4		0.404	132.4
140	1... PCB-185	7.82e3	1.12	NO	1.41	5.142	47.51	47.52	0.955	0.955	NO	26.95		0.408	26.95
141	1... PCB-174	6.61e4	1.07	NO	1.35	5.142	47.89	47.88	0.962	0.962	NO	236.7		0.424	236.7
142	1... PCB-181			NO	1.47	5.142	48.00		0.964		YES			0.389	
143	1... PCB-177	3.78e4	1.07	NO	1.28	5.142	48.18	48.16	0.968	0.968	NO	143.3		0.449	143.3
144	1... PCB-171	1.67e4	1.05	NO	1.32	5.142	48.48	48.47	0.974	0.974	NO	61.66		0.436	61.66
145	1... PCB-173	1.39e3	0.82	YES	1.19	5.142	48.91	48.90	0.983	0.983	NO	5.673		0.492	4.990
146	1... PCB-172	1.02e4	1.11	NO	1.38	5.142	49.38	49.38	0.992	0.992	NO	36.07		0.417	36.07
147	1... PCB-192			NO	1.83	5.142	49.58		0.996		YES			0.314	
148	1... PCB-180	1.54e5	1.02	NO	1.41	5.142	49.79	49.79	1.000	1.000	NO	530.1		0.406	530.1
149	1... PCB-193	9.46e3	0.87	YES	1.68	5.142	50.01	50.00	1.005	1.005	NO	27.24		0.342	24.88
150	1... PCB-191	2.98e3	1.07	NO	1.71	5.142	50.27	50.27	1.010	1.010	NO	8.449		0.335	8.449
151	1... PCB-170	5.23e4	1.05	NO	1.40	5.142	51.44	51.44	1.000	1.000	NO	217.2		0.483	217.2
152	1... PCB-190	1.48e4	1.16	NO	1.85	5.142	51.65	51.65	1.005	1.004	NO	46.56		0.366	46.56
153	1... PCB-189	2.59e3	0.98	NO	1.45	5.142	53.15	53.15	1.000	1.000	NO	7.821		0.307	7.821
154	1... PCB-202	6.15e3	0.81	NO	1.17	5.142	48.69	48.68	1.001	1.000	NO	25.15		0.296	25.15
155	1... PCB-201	4.19e3	0.95	NO	1.05	5.142	49.17	49.17	1.010	1.011	NO	19.01		0.328	19.01
156	1... PCB-204			NO	1.14	5.142	49.32		1.014		YES			0.303	
157	1... PCB-197	1.33e3	1.03	YES	1.13	5.142	49.63	49.64	1.020	1.020	NO	5.624		0.305	5.243
158	1... PCB-200	4.03e3	0.84	NO	1.07	5.142	50.57	50.59	1.039	1.040	NO	17.96		0.323	17.96
159	1... PCB-198	8.38e2	2.30	YES	0.794	5.142	52.12	52.14	1.071	1.072	NO	5.043		0.426	2.889
160	1... PCB-199	2.25e4	0.87	NO	0.809	5.142	52.26	52.26	1.074	1.074	NO	132.9		0.427	132.9
161	1... PCB-196/203	2.54e4	0.94	NO	0.838	5.142	52.55	52.56	1.080	1.080	NO	144.8		0.413	144.8
162	1... PCB-195	1.50e4	0.88	NO	1.04	5.142	53.84	53.83	0.984	0.983	NO	48.62		0.461	48.62
163	1... PCB-194	3.86e4	0.89	NO	1.12	5.142	54.75	54.75	1.000	1.000	NO	117.0		0.431	117.0
164	1... PCB-205	1.87e3	0.74	YES	1.29	5.142	55.03	55.01	1.005	1.005	NO	4.904		0.373	4.424
165	1... PCB-208	6.07e3	1.31	NO	0.933	5.142	53.99	53.99	1.000	1.000	NO	20.14		0.418	20.14
166	1... PCB-207	2.72e3	1.17	NO	0.916	5.142	54.31	54.31	1.006	1.006	NO	9.196		0.425	9.196
167	1... PCB-206	1.37e4	1.36	NO	1.01	5.142	56.29	56.29	1.000	1.000	NO	66.41		0.589	66.41

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	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
168	1... PCB-209	1.60e4	1.24	NO	0.986	5.142	57.49	57.50	1.000	1.000	NO	83.47		0.498	83.47
169	1... 13C-PCB-1	1.03e6	3.37	NO	0.893	5.142	15.59	15.59	0.609	0.609	NO	942.0	48.4	1.03	
170	1... 13C-PCB-3	1.15e6	3.44	NO	0.911	5.142	18.24	18.24	0.712	0.712	NO	1027	52.8	1.01	
171	1... 13C-PCB-4	9.82e5	1.63	NO	0.600	5.142	19.61	19.59	0.766	0.765	NO	1333	68.5	0.584	
172	1... 13C-PCB-9	1.65e6	1.60	NO	0.970	5.142	21.42	21.41	0.837	0.836	NO	1390	71.5	0.361	
173	1... 13C-PCB-11	1.53e6	1.63	NO	0.962	5.142	24.88	24.89	0.972	0.972	NO	1296	66.6	0.364	
174	1... 13C-PCB-19	6.30e5	1.06	NO	0.499	5.142	23.84	23.83	0.931	0.931	NO	1028	52.9	4.65	
175	1... 13C-PCB-32	1.01e6	1.05	NO	0.744	5.142	26.83	26.82	1.048	1.048	NO	1103	56.7	3.11	
176	1... 13C-PCB-28	1.68e6	0.95	NO	1.06	5.142	28.85	28.83	1.004	1.003	NO	1397	71.8	3.91	
177	1... 13C-PCB-37	1.65e6	1.07	NO	0.989	5.142	32.84	32.91	1.143	1.145	NO	1482	76.2	4.20	
178	1... 13C-PCB-54	9.39e5	0.79	NO	0.999	5.142	27.67	27.68	0.753	0.753	NO	1243	63.9	1.18	
179	1... 13C-PCB-52	8.09e5	0.81	NO	0.804	5.142	31.34	31.34	0.853	0.853	NO	1332	68.5	1.47	
180	1... 13C-PCB-47	8.76e5	0.80	NO	0.857	5.142	31.87	31.86	0.867	0.867	NO	1352	69.5	1.38	
181	1... 13C-PCB-70	1.04e6	0.82	NO	0.996	5.142	35.49	35.47	0.965	0.965	NO	1388	71.4	1.19	
182	1... 13C-PCB-80	1.11e6	0.77	NO	1.03	5.142	35.92	35.92	0.977	0.977	NO	1432	73.6	1.15	
183	1... 13C-PCB-81	1.10e6	0.78	NO	0.988	5.142	39.12	39.12	1.064	1.064	NO	1469	75.6	1.20	
184	1... 13C-PCB-77	1.06e6	0.79	NO	0.969	5.142	39.74	39.74	1.081	1.081	NO	1450	74.6	1.22	
185	1... 13C-PCB-104	5.82e5	1.64	NO	1.02	5.142	32.51	32.59	0.827	0.829	NO	1312	67.5	0.546	
186	1... 13C-PCB-95	4.89e5	1.65	NO	0.805	5.142	35.77	35.79	0.910	0.910	NO	1392	71.6	0.689	
187	1... 13C-PCB-101	4.91e5	1.59	NO	0.793	5.142	37.52	37.54	0.954	0.955	NO	1420	73.0	0.700	
188	1... 13C-PCB-97	4.35e5	1.67	NO	0.696	5.142	38.85	38.88	0.988	0.989	NO	1431	73.6	0.797	
189	1... 13C-PCB-123	5.89e5	1.62	NO	0.933	5.142	41.52	41.52	1.056	1.056	NO	1446	74.4	0.595	
190	1... 13C-PCB-118	6.08e5	1.64	NO	0.986	5.142	41.71	41.71	1.061	1.061	NO	1413	72.7	0.563	
191	1... 13C-PCB-114	1.18e6	1.61	NO	1.55	5.142	42.38	42.38	0.908	0.908	NO	1896	97.5	1.06	
192	1... 13C-PCB-105	1.17e6	1.63	NO	1.57	5.142	43.30	43.28	0.927	0.927	NO	1845	94.9	1.05	
193	1... 13C-PCB-127	1.25e6	1.61	NO	1.62	5.142	43.63	43.64	0.935	0.935	NO	1919	98.7	1.01	
194	1... 13C-PCB-126	1.06e6	1.62	NO	1.57	5.142	45.59	45.59	0.976	0.976	NO	1679	86.3	1.05	
195	1... 13C-PCB-155	3.68e5	1.27	NO	0.615	5.142	37.06	37.06	0.942	0.942	NO	1373	70.6	0.393	
196	1... 13C-PCB-153	8.39e5	1.32	NO	1.36	5.142	43.44	43.45	0.930	0.931	NO	1527	78.5	0.888	
197	1... 13C-PCB-141	6.99e5	1.26	NO	1.13	5.142	44.23	44.20	0.947	0.947	NO	1539	79.2	1.08	
198	1... 13C-PCB-138	6.97e5	1.32	NO	1.18	5.142	45.08	45.08	0.965	0.966	NO	1462	75.2	1.02	
199	1... 13C-PCB-159	8.29e5	1.30	NO	1.44	5.142	46.42	46.40	0.994	0.994	NO	1431	73.6	0.842	
200	2... 13C-PCB-167	8.49e5	1.30	NO	1.44	5.142	47.12	47.10	1.009	1.009	NO	1465	75.3	0.842	
201	2... 13C-PCB-156	8.34e5	1.29	NO	1.40	5.142	48.45	48.45	1.038	1.038	NO	1484	76.3	0.868	



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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
202	2... 13C-PCB-157	8.30e5	1.29	NO	1.40	5.142	48.74	48.71	1.044	1.043	NO	1476	75.9	0.868	
203	2... 13C-PCB-169	7.88e5	1.29	NO	1.33	5.142	51.01	51.01	1.093	1.093	NO	1471	75.6	0.911	
204	2... 13C-PCB-188	5.74e5	0.47	NO	1.41	5.142	43.05	43.07	0.926	0.926	NO	1486	76.4	0.821	
205	2... 13C-PCB-180	4.01e5	0.46	NO	0.929	5.142	49.76	49.77	1.070	1.071	NO	1575	81.0	1.25	
206	2... 13C-PCB-170	3.34e5	0.46	NO	0.794	5.142	51.42	51.42	1.106	1.106	NO	1535	79.0	1.46	
207	2... 13C-PCB-189	4.44e5	0.46	NO	1.04	5.142	53.13	53.13	1.143	1.143	NO	1550	79.7	1.11	
208	2... 13C-PCB-202	4.07e5	0.95	NO	1.04	5.142	48.66	48.66	1.046	1.046	NO	1434	73.7	0.562	
209	2... 13C-PCB-194	5.74e5	0.91	NO	0.768	5.142	54.72	54.74	0.995	0.995	NO	1648	84.8	1.11	
210	2... 13C-PCB-208	6.28e5	0.80	NO	0.991	5.142	53.96	53.97	0.981	0.981	NO	1396	71.8	0.731	
211	2... 13C-PCB-206	3.99e5	0.78	NO	0.552	5.142	56.26	56.27	1.023	1.023	NO	1594	82.0	1.31	
212	2... 13C-PCB-209	3.78e5	1.23	NO	0.396	5.142	57.50	57.49	1.046	1.045	NO	2101	108	0.621	
213	2... 13C-PCB-15	2.39e6	1.62	NO	1.00	5.142	25.58	25.60	1.000	0.000	NO	1945	100	0.350	
214	2... 13C-PCB-31	2.19e6	1.19	NO	1.00	5.142	28.72	28.74	1.000	0.000	NO	1945	100	4.16	
215	2... 13C-PCB-60	1.47e6	0.81	NO	1.00	5.142	36.74	36.76	1.000	0.000	NO	1945	100	1.18	
216	2... 13C-PCB-111	8.49e5	1.62	NO	1.00	5.142	39.33	39.33	1.000	0.000	NO	1945	100	0.555	
217	2... 13C-PCB-128	7.83e5	1.26	NO	1.00	5.142	46.67	46.69	1.000	0.000	NO	1945	100	1.21	
218	2... 13C-PCB-182	5.33e5	0.46	NO	1.00	5.142	46.50	46.50	0.000	0.000	NO	1945	100	1.16	
219	2... 13C-PCB-205	8.82e5	0.95	NO	1.00	5.142	55.01	55.00	1.000	0.000	NO	1945	100	0.854	
220	2... 13C-PCB-79	1.22e6	0.80	NO	1.07	5.142	37.86	37.86	1.030	1.030	NO	1510	77.7	1.11	
221	2... 13C-PCB-178	3.61e5	0.46	NO	0.766	5.142	45.95	45.95	0.988	0.988	NO	1171	60.2	1.03	
222	2... 13C-PCB-79	1.22e6	0.80	NO	1.08	5.142	37.85	37.86	0.968	0.968	NO	1999	103	1.53	
223	2... 13C-PCB-178	3.61e5	0.46	NO	1.05	5.142	45.96	45.95	0.923	0.923	NO	1667	85.7	1.45	
224	2... Total Mono-PCBs				1.17	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	2... Total Di-PCBs				1.05	5.142	0.00		0.000		NO	167.1		4.11	167.1
226	2... 2nd Function Tri-PCBs				1.08	5.142	0.00		0.000		NO	182.0	728.1 ✓	3.87	182.0 ✓ 732.9 ✓
227	2... 3rd Function Tri-PCBs				0.983	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	2... Total Tetra-PCBs				1.08	5.142	0.00		0.000		NO	2728		12.7	2731
229	2... 3rd Function Penta-PCBs				1.32	5.142	0.00		0.000		NO	4062	4322.5 -	12.7	4100 ✓ 4360.5 ✓
230	2... 4th Function Penta-PCBs				1.07	5.142	0.00		0.000		NO	260.5		2.58	260.5 ✓ 3602 ✓
231	2... 3rd Function Hexa-PCBs				0.951	5.142	0.00		0.000		NO	1077	3592 ✓	3.22	1083 ✓ 3602 ✓
232	2... 4th Function Hexa-PCBs				1.03	5.142	0.00		0.000		NO	2515		10.4	2519 ✓ *DEFN(05)10
233	2... Total Hepta-PCBs				1.36	5.142	0.00		0.000		NO	1939		8.82	1970
234	2... 4th Function Octa-PCBs				1.00	5.142	0.00		0.000		NO	339.8	505.9 -	2.83	347.9 ✓ 517.9 ✓
235	2... 5th Function Octa-PCBs				1.15	5.142	0.00		0.000		NO	165.6		1.27	170.0

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
236	2... Total Nona-PCBs				0.952	5.142	0.00		0.000		NO	95.74		1.43	95.74
237	2... Deca-CB				0.986	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	2... Total PCBs														

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Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

**Total Mono-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-1	15.60	15.60	7.338e4	2.251e4	4.269e3	1.286e3	3.32	NO	5.556e3	8.9501	8.9501	0.269
2	PCB-2	18.02	18.01	8.404e4	2.782e4	5.175e3	1.759e3	2.94	NO	6.934e3	9.9261	9.9261	0.258
3	PCB-3	18.25	18.25	7.961e4	2.493e4	5.030e3	1.607e3	3.13	NO	6.637e3	9.7861	9.7861	0.266

**Total Di-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-4/10	19.67	19.61	1.207e5	7.882e4	8.157e3	5.081e3	1.61	NO	1.324e4	21.013	21.013	0.609
2	PCB-7/9	21.47	21.44	2.536e4	1.472e4	2.259e3	1.393e3	1.62	NO	3.652e3	4.4712	4.4712	0.477
3	PCB-6	22.12	22.12	8.044e4	5.260e4	5.150e3	3.428e3	1.50	NO	8.578e3	9.8511	9.8511	0.448
4	PCB-5/8	22.53	22.52	3.375e5	2.012e5	2.180e4	1.323e4	1.65	NO	3.503e4	41.488	41.488	0.462
5	PCB-11	24.91	24.91	3.350e5	2.089e5	2.515e4	1.590e4	1.58	NO	4.105e4	46.318	46.318	0.492
6	PCB-15	25.63	25.62	3.148e5	2.047e5	2.169e4	1.406e4	1.54	NO	3.575e4	43.912	43.912	0.536

**2nd Function Tri-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-19	23.86	23.85	5.466e4	5.376e4	3.521e3	3.693e3	0.95	NO	7.214e3	20.140	20.140	0.705
2	PCB-18	25.53	25.54	2.105e5	2.162e5	1.249e4	1.255e4	1.00	NO	2.504e4	59.112	59.112	0.599
3	PCB-17	25.71	25.71	1.178e5	1.197e5	8.088e3	7.932e3	1.02	NO	1.602e4	40.773	40.773	0.646
4	PCB-24/27	26.31	26.28	3.048e4	3.020e4	2.122e3	2.057e3	1.03	NO	4.179e3	7.4542	7.4542	0.453
5	PCB-16/32	26.84	26.84	1.347e5	1.327e5	1.321e4	1.292e4	1.02	NO	2.613e4	54.494	54.494	0.529

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3rd Function Tri-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-34	27.64	27.66	1.011e4	7.914e3	7.293e2	6.650e2	1.10	NO	1.394e3	1.7098	1.7098	0.448
2	PCB-26	28.22	28.22	1.710e5	1.688e5	1.352e4	1.284e4	1.05	NO	2.636e4	32.380	32.380	0.448
3	PCB-25	28.37	28.38	9.642e4	9.617e4	7.619e3	7.274e3	1.05	NO	1.489e4	18.180	18.180	0.446
4	PCB-31	28.75	28.76	8.314e5	7.998e5	5.954e4	5.792e4	1.03	NO	1.175e5	131.43	131.43	0.408
5	PCB-28	28.85	28.85	9.808e5	9.502e5	7.886e4	7.635e4	1.03	NO	1.552e5	175.57	175.57	0.413
6	PCB-20/21/33	29.49	29.52	4.013e5	3.754e5	3.408e4	3.145e4	1.08	NO	6.553e4	80.719	80.719	0.450
7	PCB-22	29.93	29.95	2.680e5	2.598e5	2.038e4	2.028e4	1.00	NO	4.066e4	48.455	48.455	0.435
8	PCB-39	31.15	31.08	1.021e4	6.888e3	6.854e2	5.511e2	1.24	YES	1.236e3	0.00000	1.3378	0.465
9	PCB-38	31.94	31.88	1.524e4	1.661e4	1.278e3	1.306e3	0.98	NO	2.584e3	2.8890	2.8890	0.437
10	PCB-35	32.49	32.46	1.873e4	1.584e4	1.824e3	1.481e3	1.23	YES	3.305e3	0.00000	3.4045	0.441
11	PCB-37	32.93	32.93	3.092e5	2.885e5	2.429e4	2.273e4	1.07	NO	4.702e4	54.806	54.806	0.456

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Total Tetra-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp.	m2 Resp.	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-54	27.70	27.70	1.372e4	1.653e4	9.845e2	1.320e3	0.75	NO	2.305e3	4.4205	4.4205	0.370
2	PCB-50	28.91	28.91	2.677e3	5.897e3	2.260e2	4.011e2	0.56	YES	6.271e2	0.00000	1.2233	0.454
3	PCB-53	29.58	29.58	1.013e5	1.328e5	7.767e3	1.023e4	0.76	NO	1.800e4	43.377	43.377	0.483
4	PCB-51	29.93	29.91	5.580e4	6.902e4	4.288e3	5.308e3	0.81	NO	9.597e3	21.646	21.646	0.452
5	PCB-45	30.38	30.36	5.854e4	8.104e4	4.559e3	6.367e3	0.72	NO	1.093e4	30.581	30.581	0.560
6	PCB-46	30.88	30.86	2.993e4	3.758e4	2.331e3	2.898e3	0.80	NO	5.229e3	15.122	15.122	0.579
7	PCB-52/69	31.38	31.36	1.222e6	1.557e6	9.542e4	1.226e5	0.78	NO	2.180e5	448.97	448.97	0.412
8	PCB-73	31.49	31.45	1.177e4	1.459e4	4.295e2	6.125e2	0.70	NO	1.042e3	1.7349	1.7349	0.333
9	PCB-43/49	31.67	31.68	6.238e5	7.584e5	5.098e4	6.321e4	0.81	NO	1.142e5	270.00	270.00	0.473
10	PCB-47	31.88	31.90	2.471e5	3.216e5	2.112e4	2.771e4	0.76	NO	4.883e4	117.60	117.60	0.496
11	PCB-48/75	32.00	32.01	1.106e5	1.483e5	9.352e3	1.220e4	0.77	NO	2.155e4	42.715	42.715	0.408
12	PCB-44	32.70	32.76	6.030e5	8.009e5	4.562e4	5.925e4	0.77	NO	1.049e5	282.49	282.49	0.555
13	PCB-42/59	32.93	32.98	2.145e5	2.526e5	1.564e4	1.920e4	0.81	NO	3.484e4	73.680	73.680	0.435
14	PCB-41/64/71/72	33.54	33.54	5.947e5	7.275e5	4.916e4	5.993e4	0.82	NO	1.091e5	203.97	203.97	0.385
15	PCB-68	33.80	33.80	7.890e3	1.005e4	4.999e2	6.982e2	0.72	NO	1.198e3	2.0817	2.0817	0.358
16	PCB-40	34.02	34.02	7.360e4	9.628e4	5.650e3	7.581e3	0.75	NO	1.323e4	48.791	48.791	0.759
17	PCB-57	34.38	34.40	5.933e3	9.610e3	4.350e2	7.132e2	0.61	YES	1.148e3	0.00000	1.6014	0.311
18	PCB-67	34.69	34.71	2.326e4	3.027e4	1.834e3	2.477e3	0.74	NO	4.311e3	7.4054	7.4054	0.334
19	PCB-58	34.82	34.82	7.487e3	7.605e3	4.920e2	6.024e2	0.82	NO	1.094e3	1.6927	1.6927	0.301
20	PCB-63	34.97	34.99	4.109e4	4.797e4	3.233e3	3.867e3	0.84	NO	7.100e3	12.335	12.335	0.338
21	PCB-74	35.28	35.29	4.544e5	5.701e5	3.516e4	4.434e4	0.79	NO	7.951e4	124.94	124.94	0.306
22	PCB-61/70	35.49	35.51	1.388e6	1.768e6	1.089e5	1.404e5	0.78	NO	2.493e5	440.49	440.49	0.344
23	PCB-76/66	35.68	35.72	1.032e6	1.327e6	8.240e4	1.048e5	0.79	NO	1.872e5	299.38	299.38	0.311
24	PCB-55	36.28	36.26	1.295e4	2.051e4	1.225e3	1.853e3	0.66	NO	3.077e3	4.6008	4.6008	0.290
25	PCB-56/60	36.77	36.78	5.784e5	7.253e5	4.667e4	5.926e4	0.79	NO	1.059e5	181.88	181.88	0.333
26	PCB-79	37.90	37.89	2.723e4	3.605e4	2.232e3	2.995e3	0.75	NO	5.228e3	8.0252	8.0252	0.297
27	PCB-78	38.60	38.54	5.504e3	7.029e3	3.493e2	4.762e2	0.73	NO	8.255e2	1.2877	1.2877	0.313
28	PCB-81	39.14	39.18	2.604e4	4.557e4	1.079e3	1.606e3	0.67	NO	2.685e3	4.5495	4.5495	0.340
29	PCB-77	39.76	39.75	1.230e5	1.402e5	9.753e3	1.154e4	0.85	NO	2.129e4	34.302	34.302	0.322

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3rd Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-96	33.92	33.86	1.140e4	6.946e3	8.184e2	4.881e2	1.68	NO	1.306e3	3.7816	3.7816	0.435
2	PCB-103	34.47	34.41	2.950e4	1.523e4	2.398e3	1.277e3	1.88	YES	3.675e3	0.00000	11.659	0.536
3	PCB-100	34.85	34.77	2.179e4	1.293e4	1.778e3	9.344e2	1.90	YES	2.712e3	0.00000	8.3777	0.526
4	PCB-94	35.27	35.25	9.075e3	5.576e3	6.127e2	4.317e2	1.42	NO	1.044e3	4.3758	4.3758	0.564
5	PCB-95/98/102	35.74	35.81	1.220e6	7.689e5	9.574e4	6.085e4	1.57	NO	1.566e5	516.85	516.85	0.444
6	PCB-88/91	36.22	36.22	2.050e5	1.333e5	1.650e4	1.022e4	1.61	NO	2.672e4	99.755	99.755	0.502
7	PCB-84/92	37.17	37.17	6.362e5	3.958e5	5.124e4	3.151e4	1.63	NO	8.275e4	321.93	321.93	0.544
8	PCB-89	37.36	37.35	1.404e4	9.499e3	1.017e3	6.901e2	1.47	NO	1.707e3	6.1168	6.1168	0.501
9	PCB-90/101	37.55	37.56	1.776e6	1.099e6	1.396e5	8.717e4	1.60	NO	2.268e5	799.98	799.98	0.493
10	PCB-99	37.90	37.89	7.656e5	4.723e5	6.005e4	3.730e4	1.61	NO	9.735e4	291.79	291.79	0.419
11	PCB-119	38.38	38.38	6.486e4	4.270e4	5.292e3	3.283e3	1.61	NO	8.574e3	21.238	21.238	0.348
12	PCB-108/112	38.53	38.54	7.201e4	4.993e4	5.861e3	3.814e3	1.54	NO	9.675e3	29.940	29.940	0.435
13	PCB-97	38.90	38.90	4.567e5	2.829e5	3.487e4	2.157e4	1.62	NO	5.644e4	196.86	196.86	0.491
14	PCB-87/117/125	39.19	39.20	6.656e5	3.981e5	5.163e4	3.206e4	1.61	NO	8.368e4	240.04	240.04	0.404
15	PCB-111/115	39.35	39.35	4.127e4	2.387e4	2.903e3	1.398e3	2.08	YES	4.301e3	0.00000	8.3753	0.329
16	PCB-85/116	39.47	39.46	2.406e5	1.522e5	1.888e4	1.223e4	1.54	NO	3.111e4	98.597	98.597	0.446
17	PCB-110	39.89	39.87	2.150e6	1.353e6	1.711e5	1.057e5	1.62	NO	2.768e5	710.13	710.13	0.361
18	PCB-82	40.50	40.52	1.432e5	8.495e4	1.125e4	6.925e3	1.62	NO	1.817e4	76.813	76.813	0.584
19	PCB-124	41.21	41.22	7.045e4	4.336e4	6.015e3	3.681e3	1.63	NO	9.695e3	22.920	22.920	0.327
20	PCB-107/109	41.35	41.39	1.281e5	8.555e4	1.084e4	7.063e3	1.54	NO	1.791e4	44.069	44.069	0.340
21	PCB-123	41.54	41.56	2.562e4	2.034e4	1.972e3	1.525e3	1.29	YES	3.496e3	0.00000	8.9196	0.381
22	PCB-106/118	41.75	41.75	1.637e6	1.003e6	1.362e5	8.386e4	1.62	NO	2.201e5	577.29	577.29	0.372

4th Function Penta-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-114	42.41	42.40	6.069e4	3.671e4	5.187e3	3.234e3	1.60	NO	8.420e3	12.158	12.158	0.472
2	PCB-122	42.55	42.56	2.874e4	1.973e4	2.264e3	1.565e3	1.45	NO	3.830e3	6.6824	6.6824	0.571
3	PCB-105	43.29	43.29	1.108e6	7.023e5	9.249e4	5.777e4	1.60	NO	1.503e5	238.18	238.18	0.523
4	PCB-126	45.61	45.63	1.721e4	1.070e4	1.412e3	8.414e2	1.68	NO	2.254e3	3.5290	3.5290	0.534

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3rd Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-155	37.07	37.07	5.950e2	1.015e3	3.903e1	6.342e1	0.62	YES	1.024e2	0.00000	0.35672	0.221
2	PCB-150	38.38	38.40	3.411e3	2.668e3	2.435e2	2.453e2	0.99	YES	4.889e2	0.00000	2.1443	0.213
3	PCB-152	38.86	38.88	2.441e3	1.700e3	1.867e2	1.415e2	1.32	NO	3.282e2	1.4607	1.4607	0.194
4	PCB-136	39.66	39.66	1.622e5	1.199e5	1.282e4	9.484e3	1.35	NO	2.230e4	115.35	115.35	0.226
5	PCB-148	39.76	39.77	5.141e3	4.624e3	2.811e2	2.781e2	1.01	YES	5.592e2	0.00000	3.1863	0.274
6	PCB-154	40.28	40.29	2.395e4	1.784e4	1.790e3	1.349e3	1.33	NO	3.140e3	18.040	18.040	0.251
7	PCB-151	40.95	40.95	2.138e5	1.698e5	1.685e4	1.320e4	1.28	NO	3.005e4	201.76	201.76	0.293
8	PCB-135	41.17	41.17	1.219e5	8.943e4	9.731e3	7.462e3	1.30	NO	1.719e4	98.440	98.440	0.250
9	PCB-144	41.28	41.28	3.934e4	3.545e4	3.021e3	2.621e3	1.15	NO	5.642e3	37.765	37.765	0.292
10	PCB-147	41.41	41.41	1.715e4	1.537e4	1.533e3	1.250e3	1.23	NO	2.783e3	17.613	17.613	0.276
11	PCB-139/149	41.70	41.67	7.240e5	5.603e5	5.878e4	4.535e4	1.30	NO	1.041e5	580.14	580.14	0.243
12	PCB-140	41.88	41.88	7.332e3	5.157e3	5.433e2	4.681e2	1.16	NO	1.011e3	6.7294	6.7294	0.290

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4th Function Hexa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-134/143	42.33	42.35	9.466e4	7.631e4	7.724e3	6.112e3	1.26	NO	1.384e4	42.257	42.257	0.642
2	PCB-131/133	42.65	42.65	6.492e4	4.752e4	5.302e3	4.094e3	1.29	NO	9.397e3	26.537	26.537	0.594
3	PCB-142	42.81	42.80	2.166e3	2.537e3	1.784e2	1.992e2	0.90	YES	3.777e2	0.00000	0.99058	0.646
4	PCB-146/165	43.05	43.05	3.928e5	3.088e5	3.279e4	2.576e4	1.27	NO	5.855e4	133.50	133.50	0.479
5	PCB-132/161	43.29	43.31	6.238e5	5.057e5	5.223e4	4.181e4	1.25	NO	9.404e4	212.85	212.85	0.476
6	PCB-153	43.46	43.47	2.410e6	1.905e6	1.956e5	1.539e5	1.27	NO	3.495e5	756.71	756.71	0.455
7	PCB-168	43.69	43.67	3.083e3	3.080e3	2.612e2	2.586e2	1.01	YES	5.198e2	0.00000	1.0152	0.452
8	PCB-141	44.22	44.22	3.723e5	2.961e5	3.116e4	2.471e4	1.26	NO	5.587e4	151.47	151.47	0.574
9	PCB-137	44.62	44.62	6.965e4	5.192e4	5.693e3	4.014e3	1.42	NO	9.707e3	24.331	24.331	0.530
10	PCB-130	44.71	44.73	1.118e5	8.445e4	8.504e3	7.291e3	1.17	NO	1.579e4	49.652	49.652	0.665
11	PCB-138/163/164	45.11	45.11	2.207e6	1.712e6	2.050e5	1.604e5	1.28	NO	3.655e5	794.41	794.41	0.454
12	PCB-158/160	45.38	45.34	2.398e5	1.860e5	1.889e4	1.487e4	1.27	NO	3.376e4	75.955	75.955	0.470
13	PCB-129	45.61	45.61	6.399e4	5.029e4	5.061e3	3.889e3	1.30	NO	8.949e3	28.809	28.809	0.672
14	PCB-166	46.08	46.08	6.282e3	8.399e3	5.897e2	6.306e2	0.94	YES	1.220e3	0.00000	2.1862	0.459
15	PCB-128/162	46.71	46.70	2.883e5	2.244e5	2.341e4	1.842e4	1.27	NO	4.183e4	108.13	108.13	0.578
16	PCB-167	47.12	47.14	8.668e4	6.726e4	7.404e3	5.837e3	1.27	NO	1.324e4	27.358	27.358	0.451
17	PCB-156	48.47	48.47	2.237e5	1.721e5	1.893e4	1.435e4	1.32	NO	3.328e4	68.906	68.906	0.456
18	PCB-157	48.73	48.73	4.161e4	3.300e4	3.566e3	2.784e3	1.28	NO	6.350e3	14.329	14.329	0.479



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**Total Hepta-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-188	43.11	43.09	2.580e3	1.455e3	1.819e2	1.142e2	1.59	YES	2.961e2	0.00000	0.61465	0.321
2	PCB-184	43.56	43.56	1.179e3	1.331e3	9.648e1	8.137e1	1.19	NO	1.778e2	0.48892	0.48892	0.336
3	PCB-179	44.36	44.34	2.593e5	2.423e5	2.148e4	2.075e4	1.04	NO	4.223e4	110.16	110.16	0.319
4	PCB-176	44.85	44.83	7.862e4	6.693e4	6.503e3	5.521e3	1.18	NO	1.202e4	31.111	31.111	0.316
5	PCB-178	45.99	45.97	8.391e4	9.015e4	6.892e3	7.270e3	0.95	NO	1.416e4	50.835	50.835	0.438
6	PCB-175	46.35	46.33	1.585e4	1.774e4	1.349e3	1.486e3	0.91	NO	2.836e3	10.040	10.040	0.432
7	PCB-182/187	46.52	46.50	5.638e5	5.375e5	4.645e4	4.475e4	1.04	NO	9.120e4	289.64	289.64	0.388
8	PCB-183	46.84	46.84	2.443e5	2.388e5	2.037e4	1.962e4	1.04	NO	3.999e4	132.38	132.38	0.404
9	PCB-185	47.51	47.52	4.652e4	4.209e4	4.122e3	3.695e3	1.12	NO	7.817e3	26.950	26.950	0.408
10	PCB-174	47.89	47.88	4.201e5	3.869e5	3.422e4	3.189e4	1.07	NO	6.611e4	236.66	236.66	0.424
11	PCB-177	48.18	48.16	2.381e5	2.291e5	1.953e4	1.825e4	1.07	NO	3.778e4	143.29	143.29	0.449
12	PCB-171	48.48	48.47	1.053e5	1.020e5	8.564e3	8.182e3	1.05	NO	1.675e4	61.658	61.658	0.436
13	PCB-173	48.91	48.90	7.442e3	8.545e3	6.276e2	7.653e2	0.82	YES	1.393e3	0.00000	4.9901	0.482
14	PCB-172	49.38	49.38	6.534e4	5.946e4	5.387e3	4.849e3	1.11	NO	1.024e4	36.072	36.072	0.417
15	PCB-180	49.79	49.79	9.600e5	9.352e5	7.803e4	7.640e4	1.02	NO	1.544e5	530.10	530.10	0.406
16	PCB-193	50.01	50.00	5.346e4	6.281e4	4.410e3	5.050e3	0.87	YES	9.459e3	0.00000	24.881	0.342
17	PCB-191	50.27	50.27	1.892e4	1.622e4	1.541e3	1.440e3	1.07	NO	2.982e3	8.4488	8.4488	0.335
18	PCB-170	51.44	51.44	3.343e5	3.143e5	2.675e4	2.557e4	1.05	NO	5.232e4	217.20	217.20	0.483
19	PCB-190	51.65	51.65	9.947e4	8.652e4	7.949e3	6.872e3	1.16	NO	1.482e4	46.562	46.562	0.366
20	PCB-189	53.15	53.15	1.832e4	1.917e4	1.285e3	1.309e3	0.98	NO	2.594e3	7.8214	7.8214	0.307

**4th Function Octa-PCBs**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-202	48.69	48.68	3.270e4	4.207e4	2.758e3	3.396e3	0.81	NO	6.154e3	25.148	25.148	0.296
2	PCB-201	49.17	49.17	2.583e4	2.773e4	2.039e3	2.152e3	0.95	NO	4.191e3	19.006	19.006	0.328
3	PCB-197	49.63	49.64	7.703e3	8.608e3	6.762e2	6.581e2	1.03	YES	1.334e3	0.00000	5.2427	0.305
4	PCB-200	50.57	50.59	2.238e4	2.632e4	1.839e3	2.186e3	0.84	NO	4.025e3	17.955	17.955	0.323
5	PCB-198	52.12	52.14	9.826e3	5.539e3	5.843e2	2.541e2	2.30	YES	8.385e2	0.00000	2.8887	0.436
6	PCB-199	52.26	52.26	1.367e5	1.579e5	1.051e4	1.202e4	0.87	NO	2.252e4	132.88	132.88	0.427
7	PCB-196/203	52.55	52.56	1.678e5	1.801e5	1.229e4	1.312e4	0.94	NO	2.541e4	144.76	144.76	0.413

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5th Function Octa-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-195	53.84	53.83	1.190e5	1.306e5	7.018e3	7.981e3	0.88	NO	1.500e4	48.622	48.622	0.461
2	PCB-194	54.75	54.75	3.044e5	3.539e5	1.814e4	2.042e4	0.89	NO	3.855e4	116.97	116.97	0.431
3	PCB-205	55.03	55.01	1.486e4	1.993e4	7.934e2	1.073e3	0.74	YES	1.866e3	0.00000	4.4242	0.373

Total Nona-PCBs

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-208	53.99	53.99	5.682e4	4.291e4	3.443e3	2.622e3	1.31	NO	6.065e3	20.140	20.140	0.418
2	PCB-207	54.31	54.31	2.537e4	2.226e4	1.464e3	1.255e3	1.17	NO	2.720e3	9.1960	9.1960	0.425
3	PCB-206	56.29	56.29	1.340e5	9.552e4	7.919e3	5.823e3	1.36	NO	1.374e4	66.407	66.407	0.589

Deca-CB

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	PCB-209	57.49	57.50	1.724e5	1.417e5	8.870e3	7.130e3	1.24	NO	1.600e4	83.475	83.475	0.498

Total PCBs

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

Total Mono-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-1	15.59	15.59	1.377e7	4.002e6	7.970e5	2.362e5	3.37	NO	1.033e6	941.97		1.03
2	13C-PCB-3	18.24	18.24	1.426e7	4.093e6	8.902e5	2.584e5	3.44	NO	1.149e6	1027.0		1.01

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**Total Di-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-4	19.67	19.59	9.774e6	6.043e6	6.085e5	3.731e5	1.63	NO	9.816e5	1332.7		0.584
2	13C-PCB-9	21.42	21.41	1.609e7	1.010e7	1.017e6	6.368e5	1.60	NO	1.654e6	1389.8		0.361
3	13C-PCB-11	24.88	24.89	1.338e7	8.286e6	9.472e5	5.827e5	1.63	NO	1.530e6	1296.1		0.364
4	13C-PCB-15	25.58	25.60	2.243e7	1.380e7	1.477e6	9.099e5	1.62	NO	2.387e6	1944.7		0.350

**2nd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-19	23.84	23.83	4.854e6	4.617e6	3.241e5	3.056e5	1.06	NO	6.296e5	1028.0		4.65
2	13C-PCB-32	26.83	26.82	7.697e6	7.478e6	5.165e5	4.910e5	1.05	NO	1.007e6	1102.9		3.11

**3rd Function Tri-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-31	28.72	28.74	1.446e7	1.344e7	1.193e6	1.001e6	1.19	NO	2.194e6	1944.7		4.16
2	13C-PCB-28	28.85	28.83	1.154e7	1.085e7	8.158e5	8.614e5	0.95	NO	1.677e6	1396.6		3.91
3	13C-PCB-37	32.84	32.91	1.130e7	1.056e7	8.552e5	7.983e5	1.07	NO	1.653e6	1481.5		4.20

**Tetra-Isotopes**

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-54	27.67	27.68	5.297e6	6.763e6	4.133e5	5.257e5	0.79	NO	9.390e5	1243.4		1.18
2	13C-PCB-52	31.34	31.34	4.484e6	5.466e6	3.631e5	4.462e5	0.81	NO	8.094e5	1331.9		1.47
3	13C-PCB-47	31.87	31.86	4.659e6	5.878e6	3.880e5	4.879e5	0.80	NO	8.759e5	1352.1		1.38
4	13C-PCB-70	35.49	35.47	5.989e6	7.218e6	4.712e5	5.730e5	0.82	NO	1.044e6	1387.8		1.19
5	13C-PCB-80	35.92	35.92	6.177e6	8.021e6	4.841e5	6.286e5	0.77	NO	1.113e6	1432.2		1.15
6	13C-PCB-60	36.74	36.76	8.446e6	1.037e7	6.573e5	8.121e5	0.81	NO	1.469e6	1944.7		1.18
7	13C-PCB-79	37.86	37.86	6.969e6	8.663e6	5.431e5	6.766e5	0.80	NO	1.220e6	1510.1		1.11
8	13C-PCB-81	39.12	39.12	5.924e6	7.594e6	4.811e5	6.159e5	0.78	NO	1.097e6	1469.3		1.20
9	13C-PCB-77	39.74	39.74	5.802e6	7.302e6	4.697e5	5.920e5	0.79	NO	1.062e6	1450.5		1.22

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3rd Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc:	EMPC	DL
1	13C-PCB-104	32.51	32.59	4.226e6	2.548e6	3.615e5	2.208e5	1.64	NO	5.823e5	1312.3		0.546
2	13C-PCB-95	35.77	35.79	3.975e6	2.373e6	3.047e5	1.845e5	1.65	NO	4.892e5	1391.7		0.689
3	13C-PCB-101	37.52	37.54	3.789e6	2.401e6	3.016e5	1.895e5	1.59	NO	4.911e5	1419.5		0.700
4	13C-PCB-97	38.85	38.88	3.393e6	2.031e6	2.719e5	1.630e5	1.67	NO	4.349e5	1430.6		0.797
5	13C-PCB-111	39.33	39.33	6.734e6	4.192e6	5.251e5	3.238e5	1.62	NO	8.489e5	1944.7		0.555
6	13C-PCB-123	41.52	41.52	4.630e6	2.852e6	3.644e5	2.245e5	1.62	NO	5.889e5	1446.1		0.595
7	13C-PCB-118	41.71	41.71	4.677e6	2.828e6	3.775e5	2.304e5	1.64	NO	6.079e5	1413.0		0.563

4th Function Penta-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc:	EMPC	DL
1	13C-PCB-114	42.38	42.38	9.076e6	5.589e6	7.285e5	4.518e5	1.61	NO	1.180e6	1895.9		1.06
2	13C-PCB-105	43.30	43.28	8.941e6	5.556e6	7.233e5	4.443e5	1.63	NO	1.168e6	1844.9		1.05
3	13C-PCB-127	43.63	43.64	9.704e6	6.138e6	7.739e5	4.810e5	1.61	NO	1.255e6	1919.0		1.01
4	13C-PCB-126	45.59	45.59	7.820e6	4.785e6	6.543e5	4.051e5	1.62	NO	1.059e6	1678.7		1.05

4th Function Hexa-Isotopes

	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc:	EMPC	DL
1	13C-PCB-153	43.44	43.45	5.965e6	4.474e6	4.774e5	3.615e5	1.32	NO	8.390e5	1527.2		0.888
2	13C-PCB-141	44.23	44.20	4.844e6	3.884e6	3.901e5	3.086e5	1.26	NO	6.988e5	1539.3		1.08
3	13C-PCB-138	45.08	45.08	4.982e6	3.773e6	3.960e5	3.010e5	1.32	NO	6.970e5	1461.7		1.02
4	13C-PCB-159	46.42	46.40	5.499e6	4.254e6	4.679e5	3.610e5	1.30	NO	8.289e5	1430.8		0.842
5	13C-PCB-128	46.67	46.69	5.337e6	4.264e6	4.357e5	3.471e5	1.26	NO	7.827e5	1944.7		1.21
6	13C-PCB-167	47.12	47.10	5.779e6	4.445e6	4.803e5	3.688e5	1.30	NO	8.491e5	1464.8		0.842
7	13C-PCB-156	48.45	48.45	5.612e6	4.330e6	4.704e5	3.638e5	1.29	NO	8.342e5	1483.8		0.868
8	13C-PCB-157	48.74	48.71	5.791e6	4.410e6	4.682e5	3.618e5	1.29	NO	8.300e5	1476.1		0.868
9	13C-PCB-169	51.01	51.01	5.143e6	3.979e6	4.445e5	3.436e5	1.29	NO	7.881e5	1471.0		0.911

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5th Function Octa-Isotopes

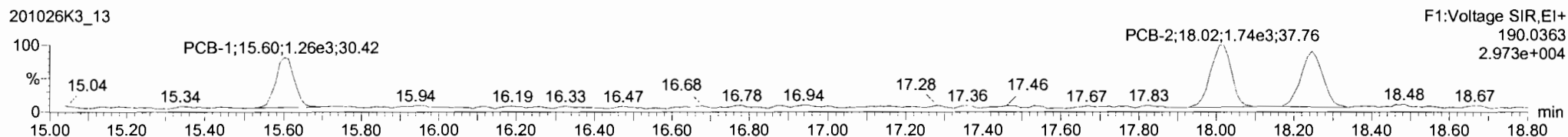
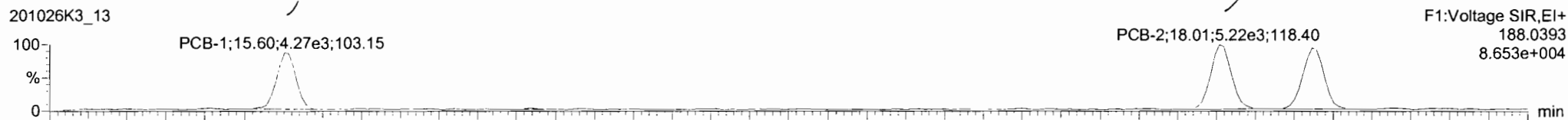
	Name	Pred.R...	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	13C-PCB-194	54.72	54.74	4.724e6	5.148e6	2.729e5	3.015e5	0.91	NO	5.744e5	1648.1		1.11
2	13C-PCB-205	55.01	55.00	7.733e6	8.177e6	4.292e5	4.532e5	0.95	NO	8.824e5	1944.7		0.854

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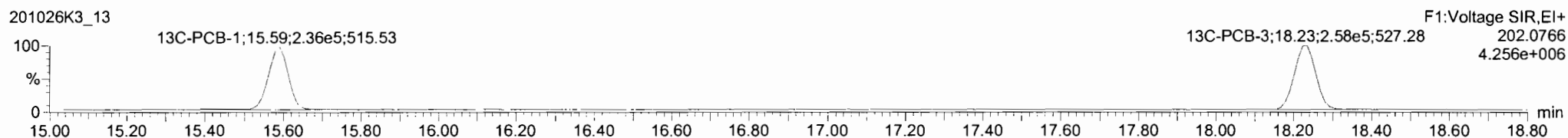
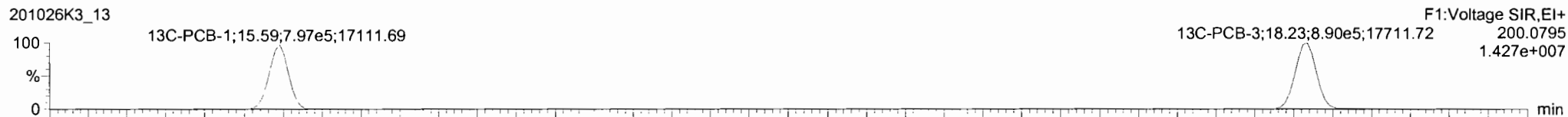
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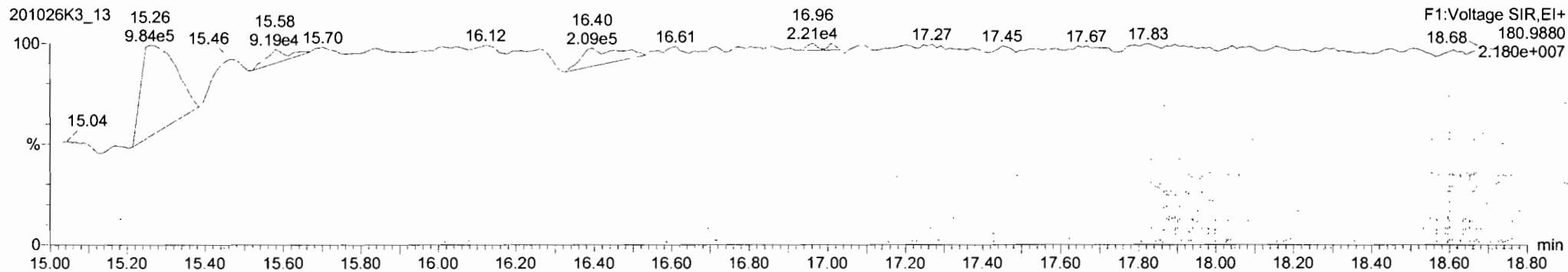
**PCB-1**



**13C-PCB-1**



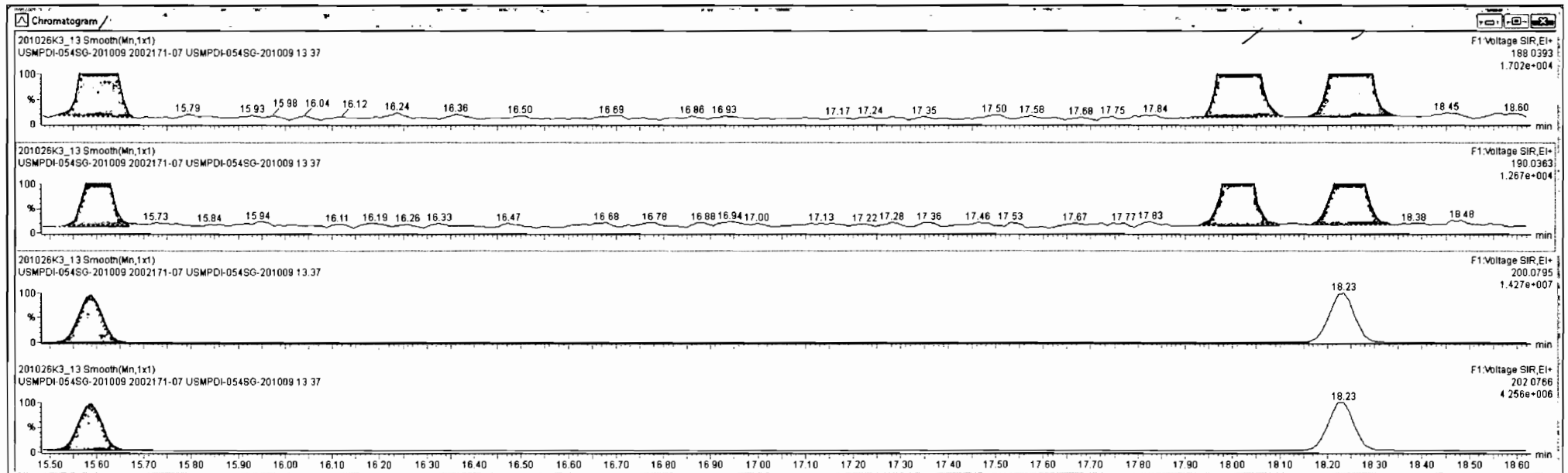
**PFK1**



201026K3\_13 - 2002171-07 USMPDI-054SG-201009 13 37 - USMPDI-054SG-201009

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00	0.000			NO	28.86		0.793	28.86
225	225 Total Di-PCBs				1.0537	5.142	0.00	0.000			NO	163.9		4.11	165.2
226	226 2nd Function Tri-PCBs				1.0907	5.142	0.00	0.000			NO	181.7		3.37	181.7
227	227 3rd Function Tri-PCBs				0.9826	5.142	0.00	0.000			NO	543.6		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00	0.000			NO	2742		12.7	2745
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00	0.000			NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00	0.000			NO	255.5		2.58	263.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1 PCB-1	15.60	15.60	4.269e3	1.286e3	3.130	3.32	NO	8.9501	8.9501
2	2 PCB-2	18.02	18.01	5.175e3	1.759e3	3.130	2.94	NO	9.9261	9.9261
3	3 PCB-3	18.25	18.25	5.030e3	1.607e3	3.130	3.13	NO	9.7861	9.7861

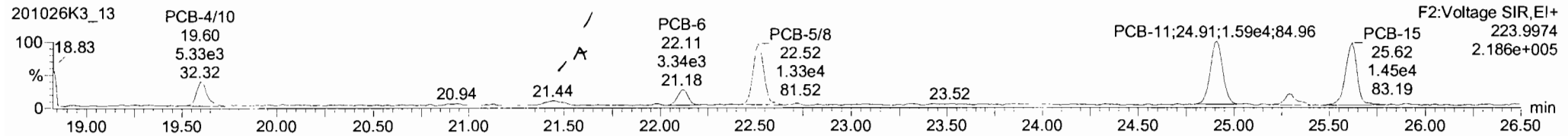
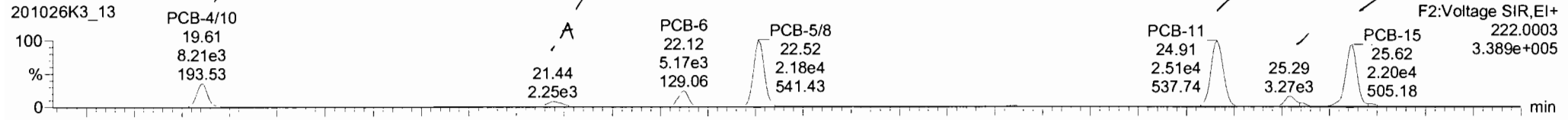


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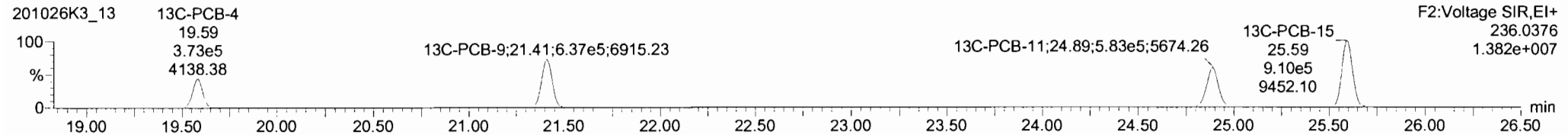
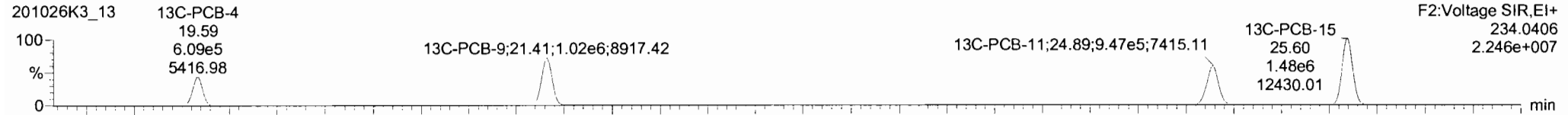
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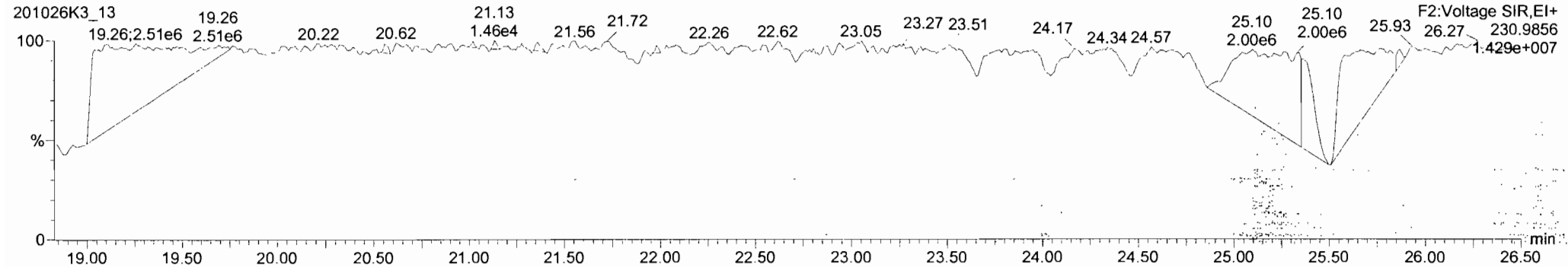
**PCB-4/10**



**13C-PCB-4**



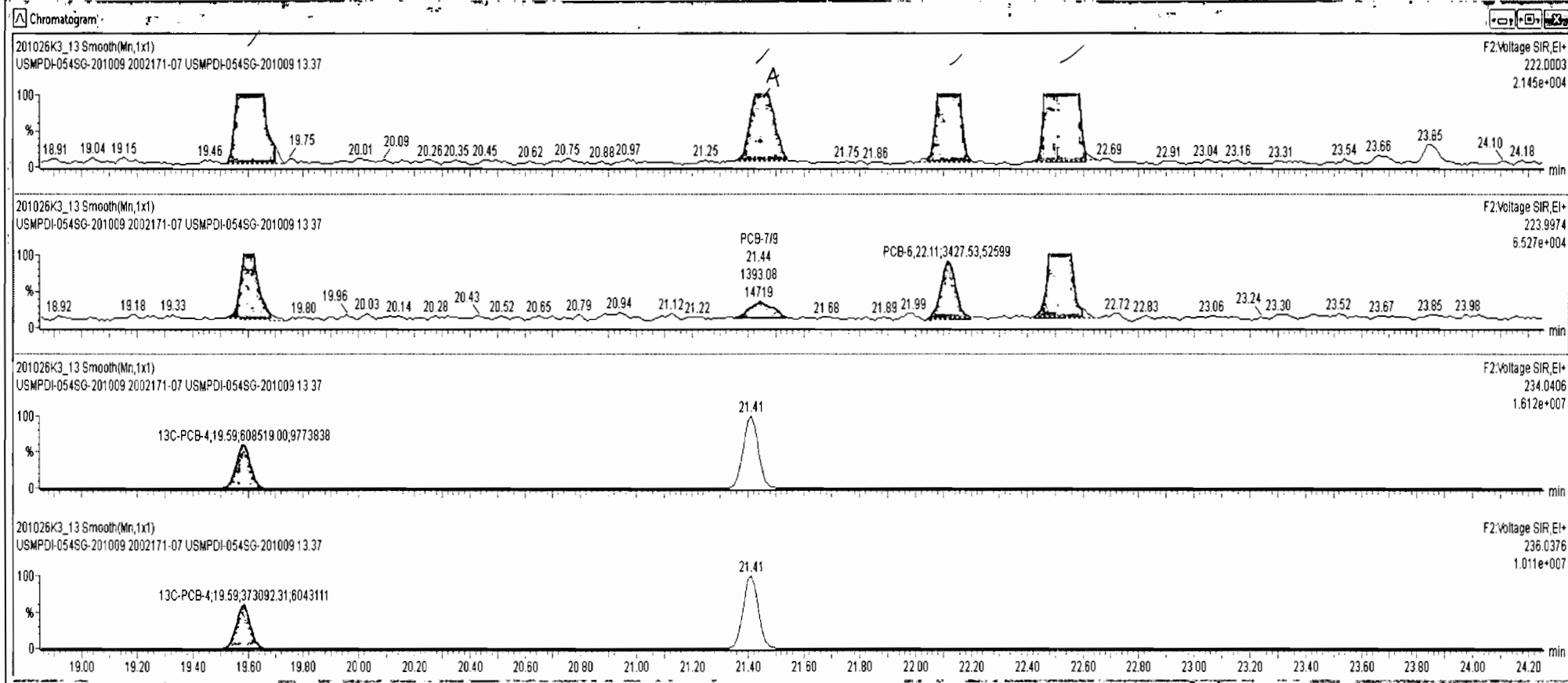
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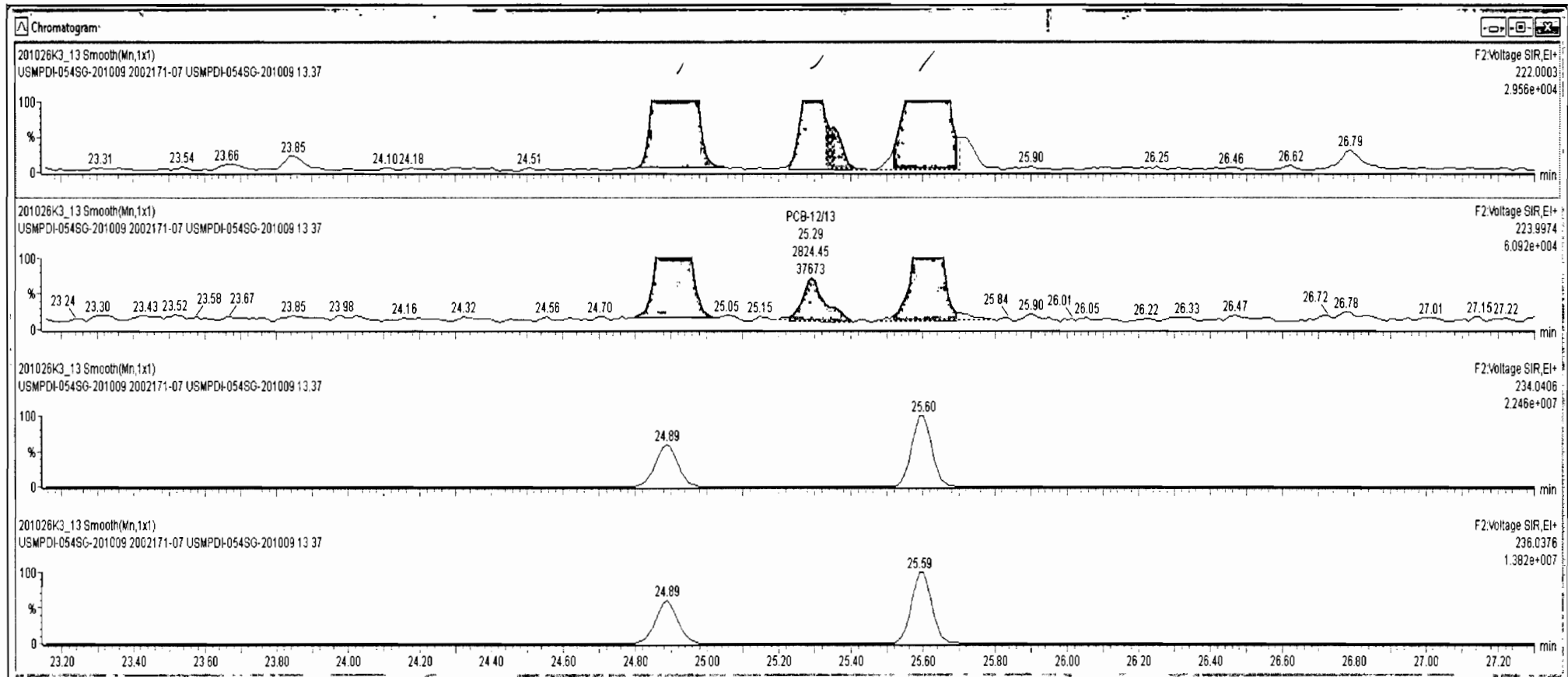
#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	26.66		0.793	26.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	176.4		-4.11	176.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	181.7		3.37	181.7
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	543.6		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2742		12.7	2745
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/0	19.67	19.61	8.157e3	5.081e3	1.560	1.61	NO	21.013	21.013
2	5 PCB-7/9	21.47	21.44	2.259e3	1.393e3	1.560	1.62	NO	4.4712	4.4712
3	6 PCB-6	22.12	22.12	5.150e3	3.428e3	1.560	1.50	NO	9.8511	9.8511
4	7 PCB-5/8	22.53	22.52	2.180e4	1.323e4	1.560	1.65	NO	41.488	41.488
5	9 PCB-11	24.91	24.91	2.515e4	1.590e4	1.560	1.58	NO	46.318	46.318
6	10 PCB-12/13	25.34	25.29	4.063e3	2.803e3	1.560	1.45	NO	8.4999	8.4999
7	11 PCB-15	25.63	25.62	2.197e4	1.448e4	1.560	1.52	NO	44.769	44.769



#	Name	Resp	RA	n/y	RRF	w/Vol	Pred.RT	RT	Pred.R...	RTT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	26.66		0.793	26.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	181.7		3.37	181.7
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	543.8		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2742		12.7	2745
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-4/10	19.67	19.61	8.157e3	5.081e3	1.560	1.61	NO	21.013	21.013
2	5 PCB-7/9	21.47	21.44	2.259e3	1.393e3	1.560	1.62	NO	4.4712	4.4712
3	6 PCB-6	22.12	22.12	5.150e3	3.428e3	1.560	1.50	NO	9.8511	9.8511
4	7 PCB-5/8	22.53	22.52	2.180e4	1.323e4	1.560	1.65	NO	41.488	41.488
5	9 PCB-11	24.91	24.91	2.515e4	1.590e4	1.560	1.58	NO	46.318	46.318
6	10 PCB-12/13	25.34	25.29	3.938e3	2.824e3	1.560	1.39	NO	8.3718	8.3718
7	11 PCB-15	25.63	25.62	2.169e4	1.406e4	1.560	1.54	NO	43.912	43.912

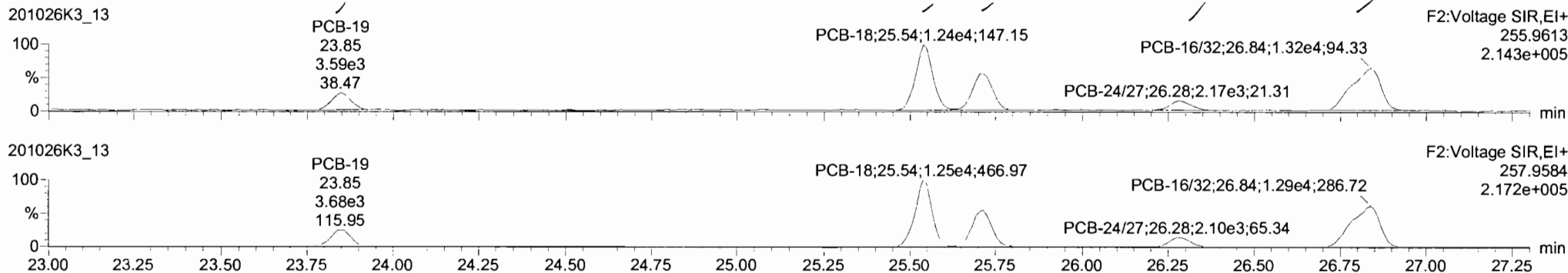


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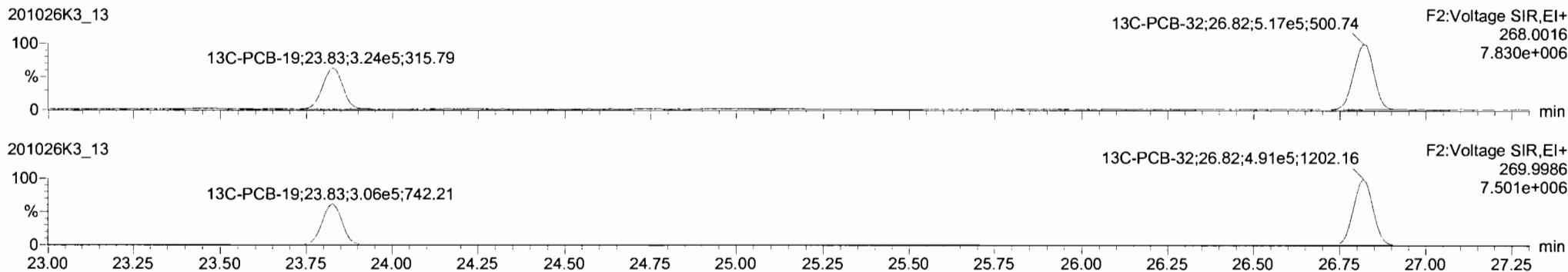
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Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

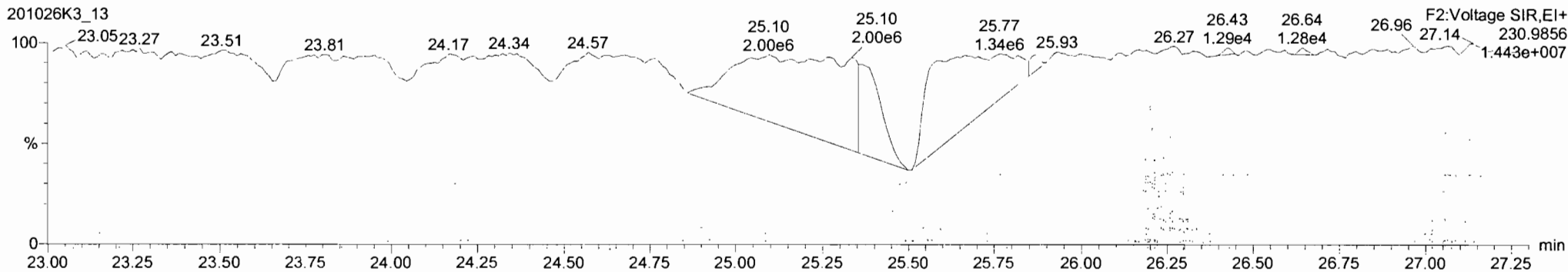
**PCB-19**



**13C-PCB-19**

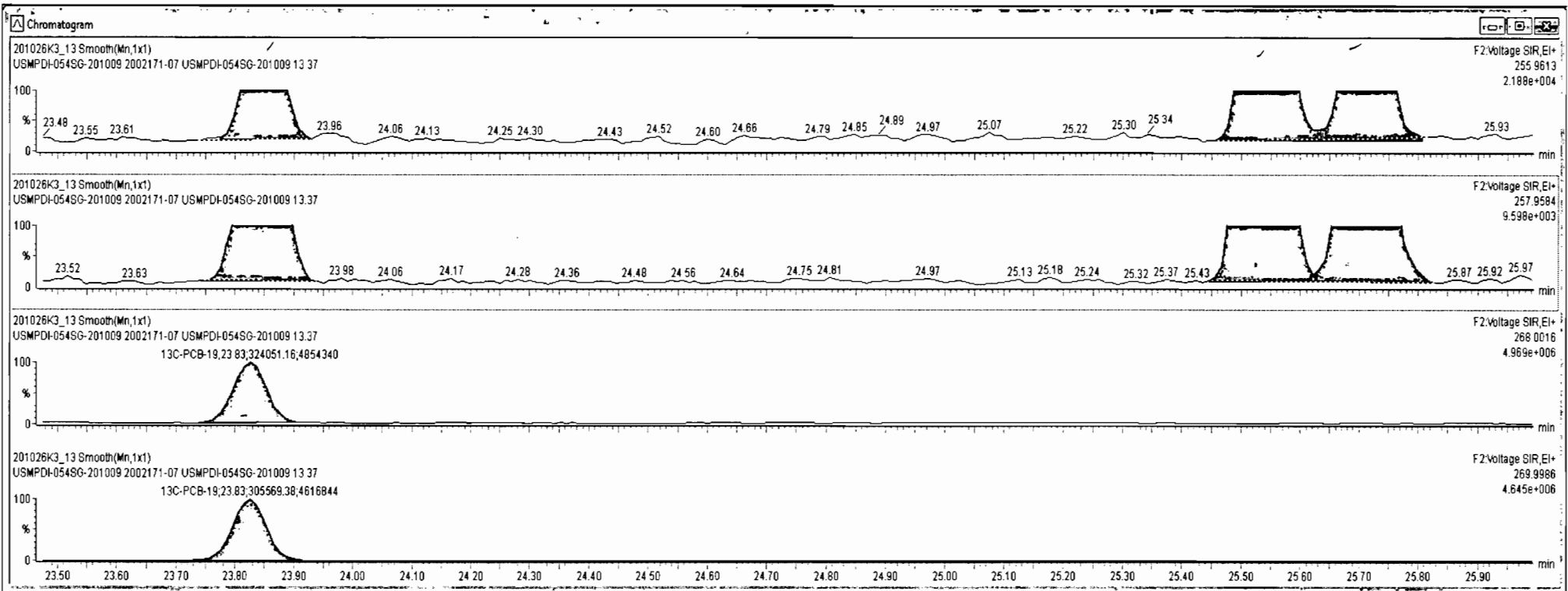


**PFK2b**



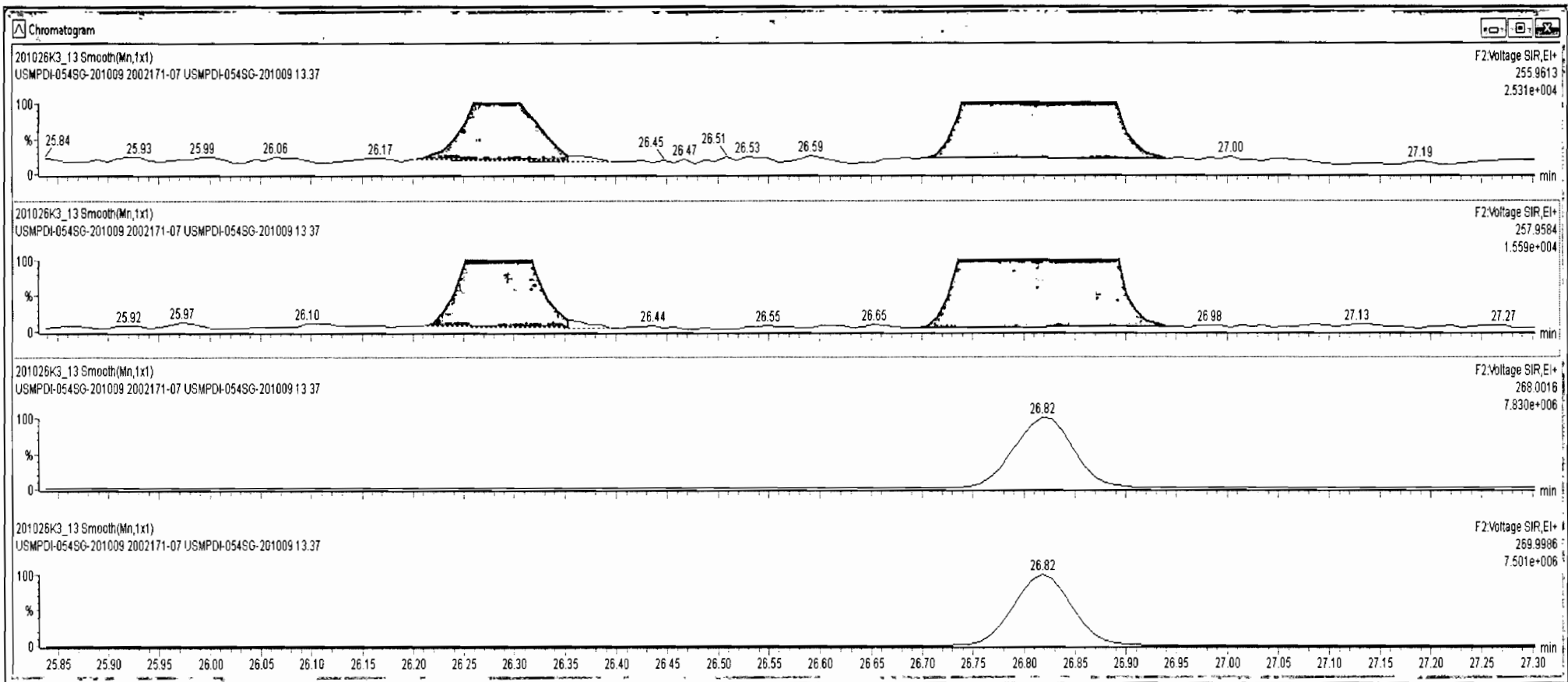
#	Name	Resp	RA	n/y	RRF	wVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.1		3.37	182.1
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	543.6		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2742		12.7	2745
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	12 PCB-19	23.86	23.85	3.521e3	3.693e3	1.040	0.95	NO	20.140	20.140
2	14 PCB-18	25.53	25.54	1.249e4	1.255e4	1.040	1.00	NO	59.112	59.112
3	15 PCB-17	25.71	25.71	8.088e3	7.932e3	1.040	1.02	NO	40.773	40.773
4	16 PCB-24/27	26.31	26.28	2.169e3	2.100e3	1.040	1.03	NO	7.6147	7.6147
5	17 PCB-16/32	26.84	26.84	1.321e4	1.292e4	1.040	1.02	NO	54.494	54.494



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1865	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	543.8		6.23	550.9
228	Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2742		12.7	2745
229	3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	12 PCB-19	23.86	23.85	3.521e3	3.693e3	1.040	0.95	NO	20.140	20.140
2	14 PCB-18	25.53	25.54	1.249e4	1.255e4	1.040	1.00	NO	59.112	59.112
3	15 PCB-17	25.71	25.71	8.088e3	7.932e3	1.040	1.02	NO	40.773	40.773
4	16 PCB-24/27	26.31	26.28	2.122e3	2.057e3	1.040	1.03	NO	7.4542	7.4542
5	17 PCB-16/32	26.84	26.84	1.321e4	1.292e4	1.040	1.02	NO	54.494	54.494

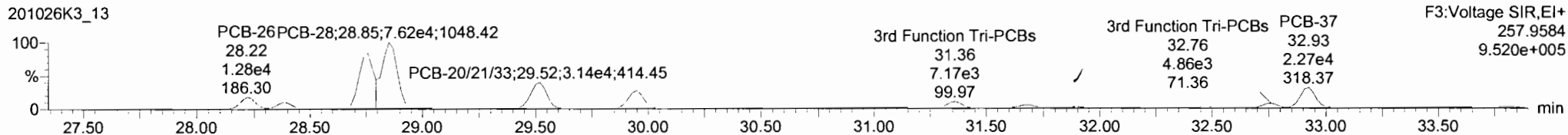
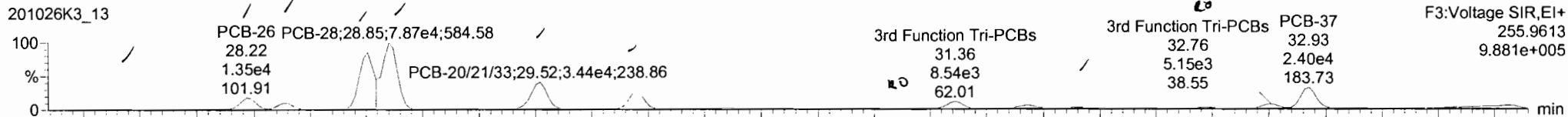


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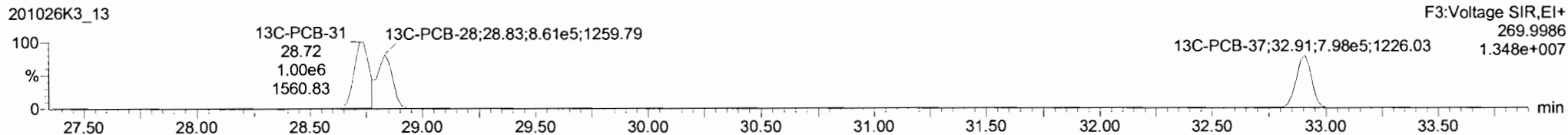
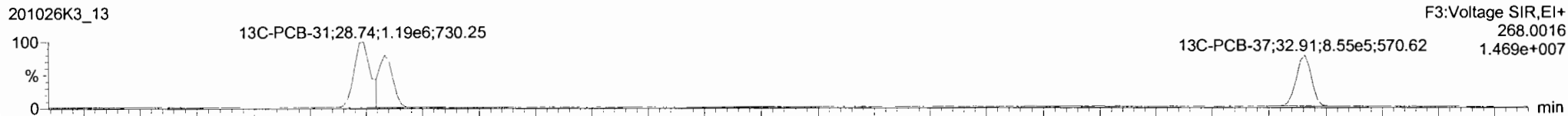
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Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

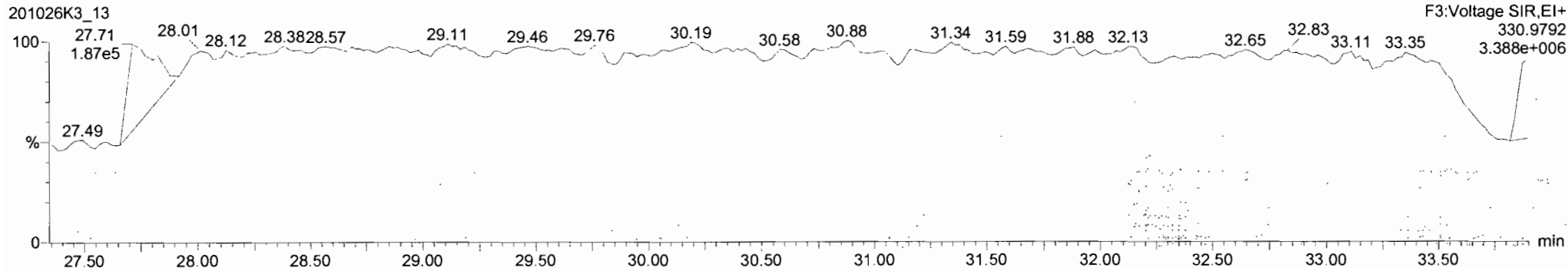
**PCB-34**



**13C-PCB-28**

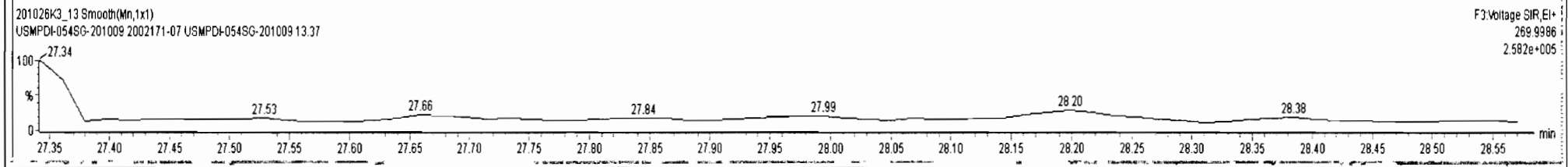
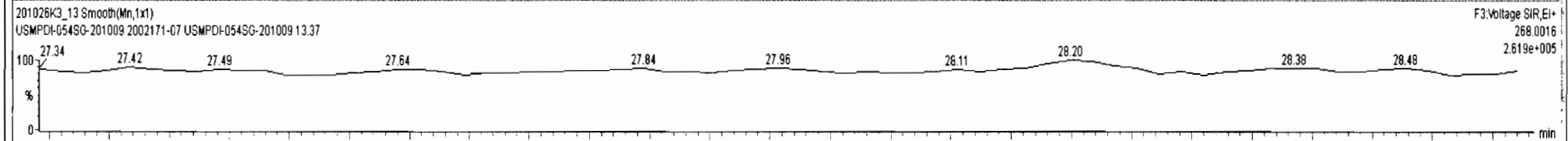
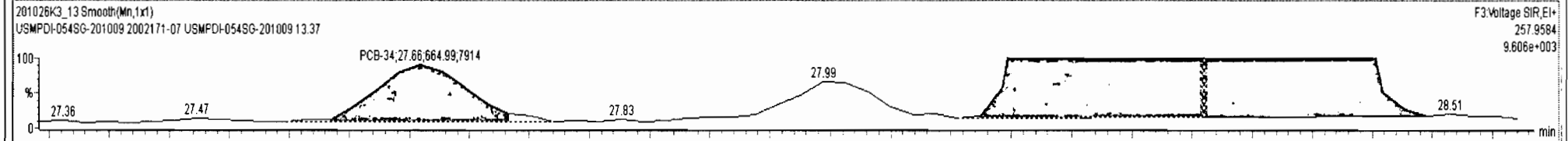
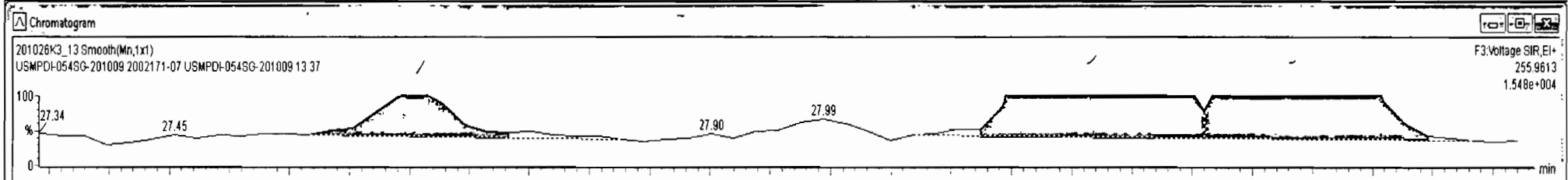


**PFK3d**



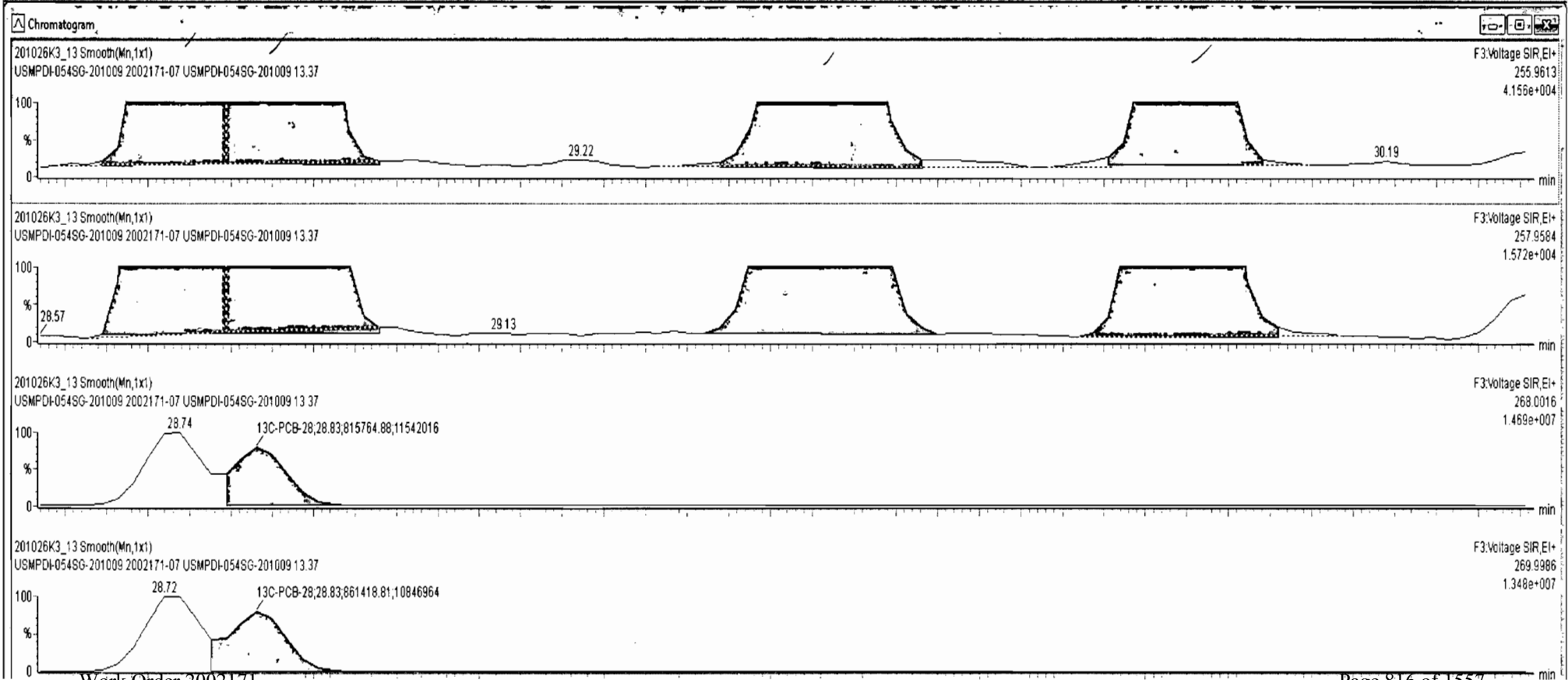
#	Name	Resp	RA	nly	RF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fal	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1865	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	543.6		6.23	550.7
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2742		12.7	2745
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc.
1	18 PCB-34	27.64	27.66	7.293e2	6.650e2	1.040	1.10	NO	1.7098	1.7098
2	21 PCB-26	28.22	28.22	1.352e4	1.284e4	1.040	1.05	NO	32.380	32.380
3	22 PCB-25	28.37	28.38	7.619e3	7.274e3	1.040	1.05	NO	18.180	18.180
4	23 PCB-31	28.75	28.76	5.961e4	5.797e4	1.040	1.03	NO	131.56	131.56
5	24 PCB-28	28.85	28.85	7.870e4	7.622e4	1.040	1.03	NO	175.24	175.24
6	25 PCB-20/21/33	29.49	29.52	3.437e4	3.145e4	1.040	1.09	NO	81.070	81.070
7	26 PCB-22	29.53	29.55	2.072e4	2.033e4	1.040	1.02	NO	48.929	48.929
8	28 PCB-39	31.15	31.08	7.170e2	5.589e2	1.040	1.28	YES	1.3569	0.00000
9	29 PCB-38	31.94	31.88	1.069e3	1.381e3	1.040	0.77	YES	2.3444	0.00000



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	28.86		0.793	28.86
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	543.3		6.23	550.4
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2742		12.7	2745
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	18 PCB-34	27.64	27.66	7.293e2	6.650e2	1.040	1.10	NO	1.7098	1.7098
2	21 PCB-26	28.22	28.22	1.352e4	1.284e4	1.040	1.05	NO	32.380	32.380
3	22 PCB-25	28.37	28.38	7.619e3	7.274e3	1.040	1.05	NO	18.180	18.180
4	23 PCB-31	28.75	28.76	5.954e4	5.792e4	1.040	1.03	NO	131.43	131.43
5	24 PCB-28	28.85	28.85	7.886e4	7.635e4	1.040	1.03	NO	175.57	175.57
6	25 PCB-20/21/33	29.49	29.52	3.408e4	3.145e4	1.040	1.08	NO	80.719	80.719
7	26 PCB-22	29.53	29.95	2.065e4	2.028e4	1.040	1.02	NO	48.781	48.781
8	28 PCB-39	31.15	31.08	7.170e2	5.589e2	1.040	1.28	YES	1.3569	0.00000
9	29 PCB-38	31.94	31.88	1.069e3	1.381e3	1.040	0.77	YES	2.3444	0.00000

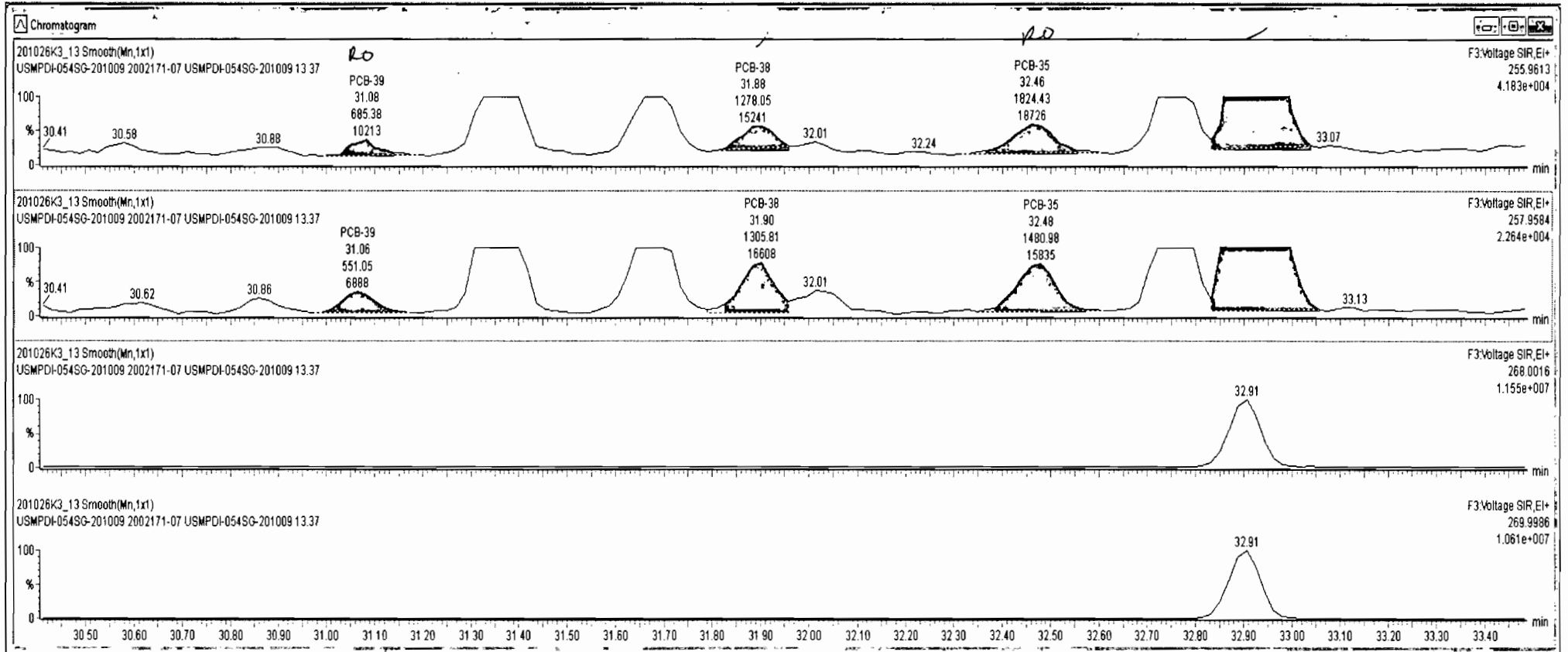




201026K3\_13 - 2002171-07 USMPDI-054SG-201009 13.37 - USMPDI-054SG-201009

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9628	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2742		12.7	2745
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
3	22 PCB-25	28.37	28.38	7.619e3	7.274e3	1.040	1.05	NO	18.180	18.180
4	23 PCB-31	28.75	28.76	5.954e4	5.792e4	1.040	1.03	NO	131.43	131.43
5	24 PCB-26	28.85	28.85	7.886e4	7.635e4	1.040	1.03	NO	175.57	175.57
6	25 PCB-20/21/33	29.49	29.52	3.408e4	3.145e4	1.040	1.08	NO	80.719	80.719
7	26 PCB-22	29.93	29.95	2.038e4	2.028e4	1.040	1.00	NO	48.455	48.455
8	28 PCB-39	31.15	31.08	6.854e2	5.511e2	1.040	1.24	YES	1.3378	0.00000
9	29 PCB-38	31.94	31.88	1.278e3	1.306e3	1.040	0.98	NO	2.8890	2.8890
10	30 PCB-35	32.49	32.46	1.824e3	1.481e3	1.040	1.23	YES	3.4045	0.00000
11	31 PCB-37	32.93	32.93	2.428e4	2.273e4	1.040	1.07	NO	54.806	54.806

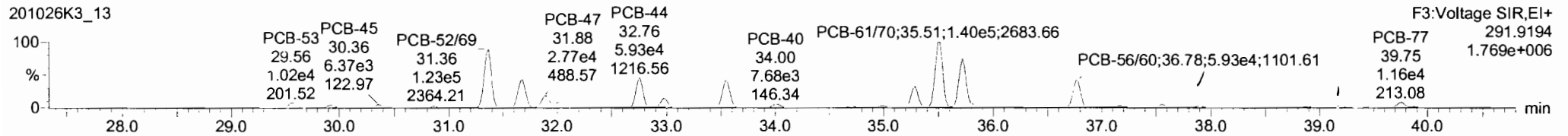
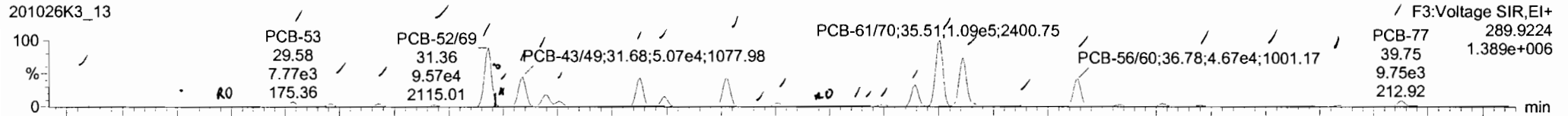


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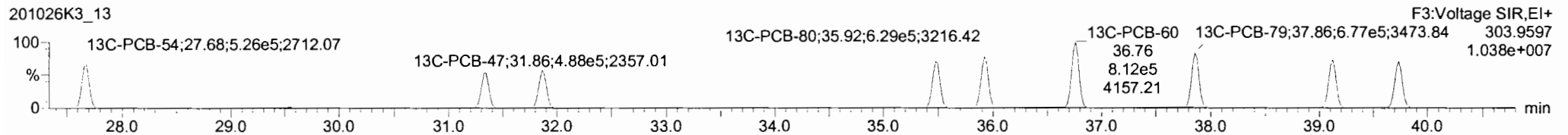
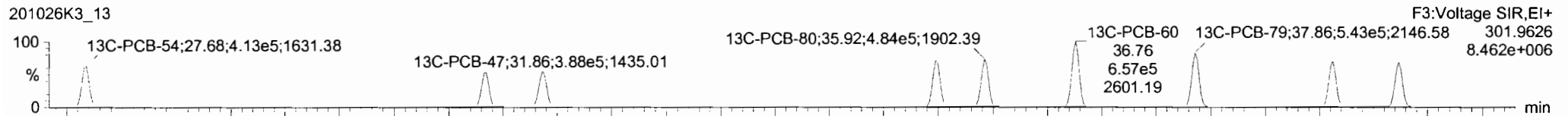
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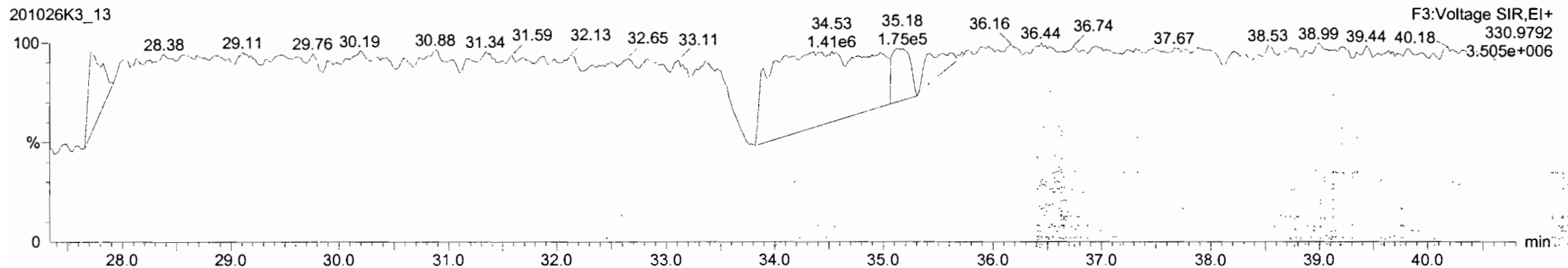
PCB-54



13C-PCB-54



PFK3a



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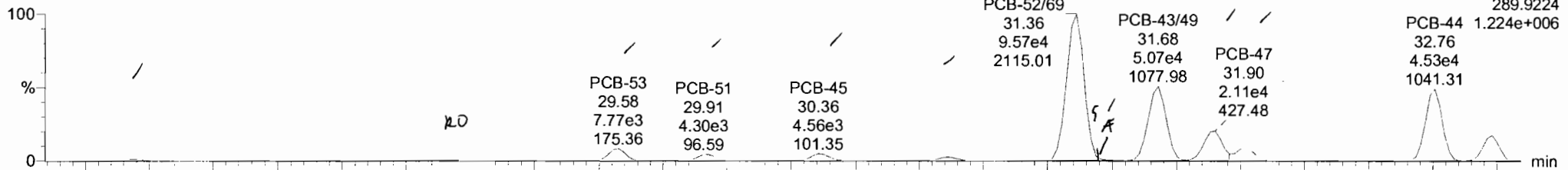
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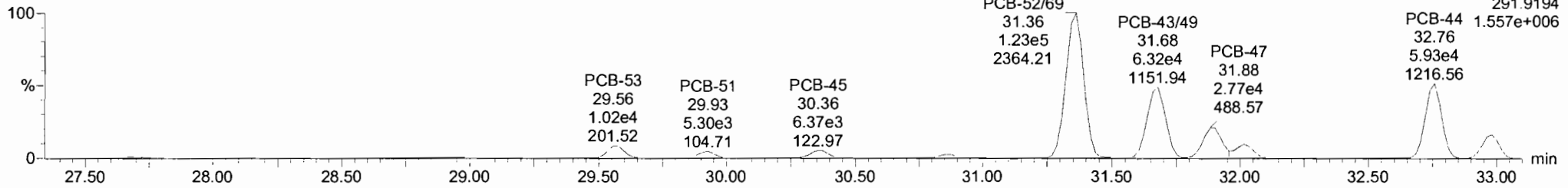
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**PCB-50**

201026K3\_13

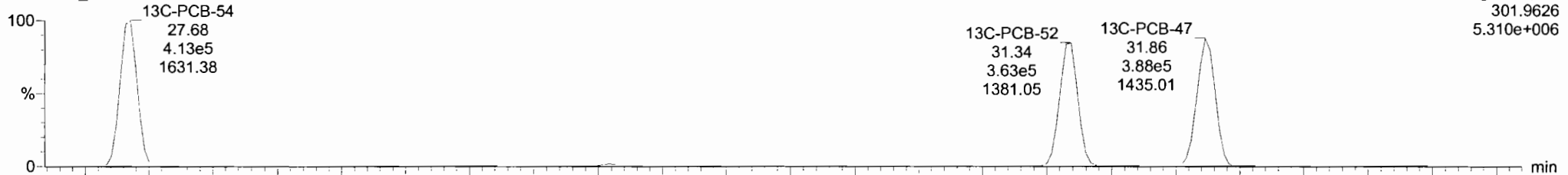


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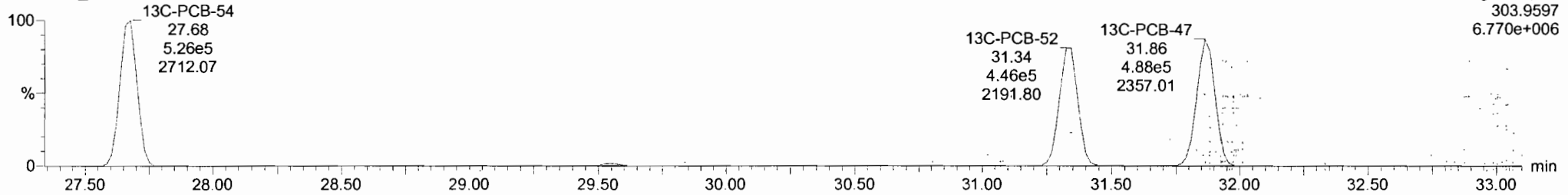


**13C-PCB-52**

201026K3\_13

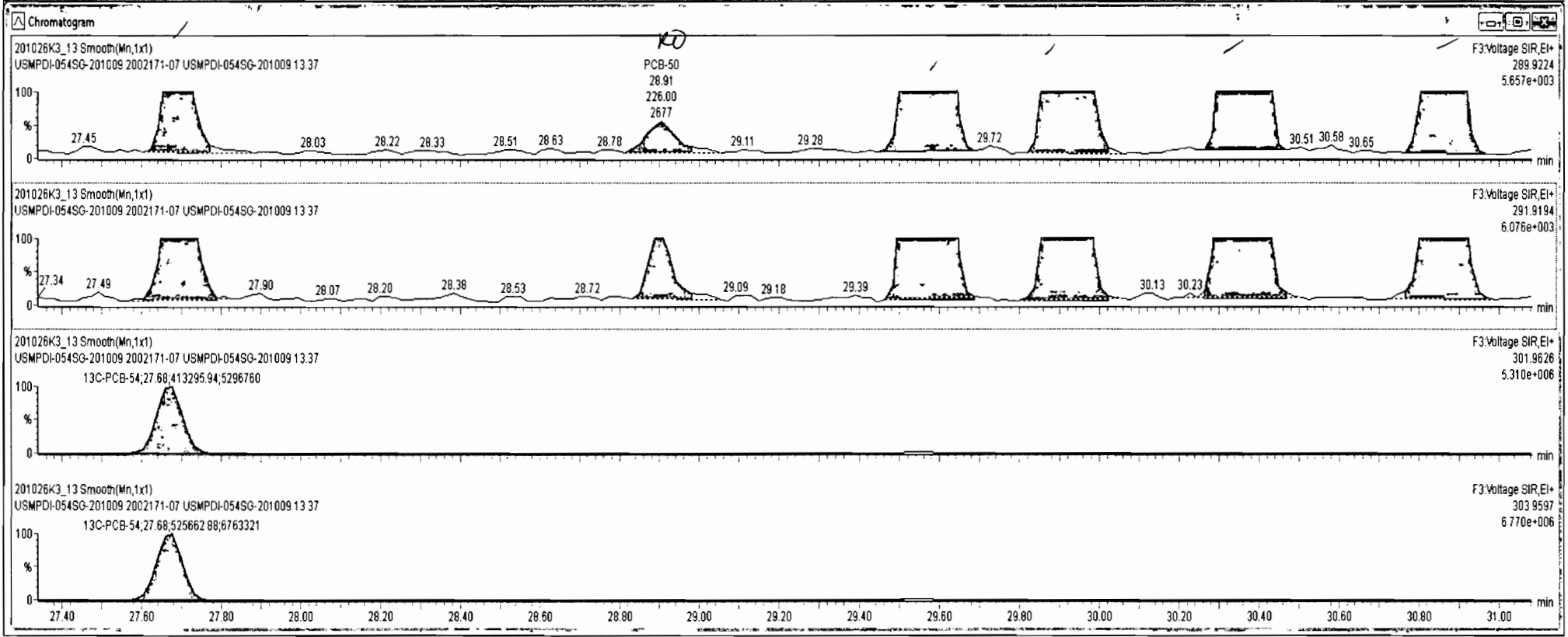


201026K3\_13



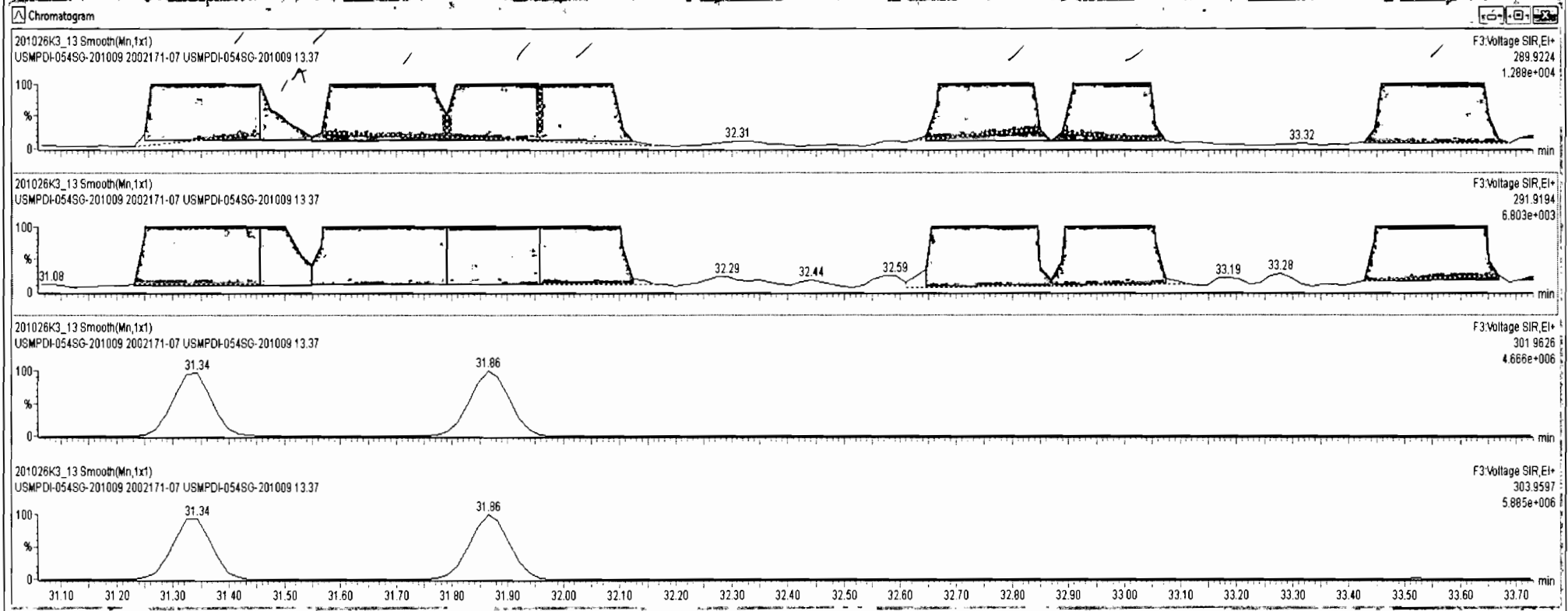
#	Name	Resp	RA	n/y	R/F	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2742		12.7	2745
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.70	27.70	9.845e2	1.320e3	0.770	0.75	NO	4.4205	4.4205
2	33 PCB-50	28.91	28.91	2.260e2	4.011e2	0.770	0.56	YES	1.2233	0.00000
3	34 PCB-53	29.58	29.58	7.767e3	1.023e4	0.770	0.76	NO	43.377	43.377
4	35 PCB-51	29.53	29.91	4.288e3	5.308e3	0.770	0.81	NO	21.646	21.646
5	36 PCB-45	30.38	30.36	4.559e3	6.367e3	0.770	0.72	NO	30.581	30.581
6	37 PCB-46	30.88	30.86	2.331e3	2.898e3	0.770	0.80	NO	15.122	15.122
7	38 PCB-5269	31.38	31.36	9.569e4	1.232e5	0.770	0.78	NO	450.74	450.74
8	40 PCB-4349	31.67	31.68	5.071e4	6.321e4	0.770	0.80	NO	269.36	269.36
9	41 PCB-47	31.88	31.90	2.107e4	2.771e4	0.770	0.76	NO	117.48	117.48



#	Name	Resp	RA	nly	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	26.66		0.793	26.66
225	Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	162.0		3.37	162.0
227	3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2744		12.7	2747
229	3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	32 PCB-54	27.70	27.70	9.845e2	1.320e3	0.770	0.75	NO	4.4205	4.4205
2	33 PCB-50	28.91	28.91	2.260e2	4.011e2	0.770	0.56	YES	1.2233	0.00000
3	34 PCB-53	29.58	29.58	7.767e3	1.023e4	0.770	0.76	NO	43.377	43.377
4	35 PCB-51	29.93	29.91	4.289e3	5.308e3	0.770	0.81	NO	21.646	21.646
5	36 PCB-45	30.38	30.36	4.559e3	6.367e3	0.770	0.72	NO	30.581	30.581
6	37 PCB-46	30.88	30.86	2.331e3	2.898e3	0.770	0.80	NO	15.122	15.122
7	38 PCB-5269	31.38	31.36	9.542e4	1.226e5	0.770	0.78	NO	448.97	448.97
8	39 PCB-73	31.49	31.45	4.295e2	6.125e2	0.770	0.70	NO	1.7349	1.7349
9	40 PCB-4349	31.67	31.68	5.098e4	6.321e4	0.770	0.81	NO	270.00	270.00

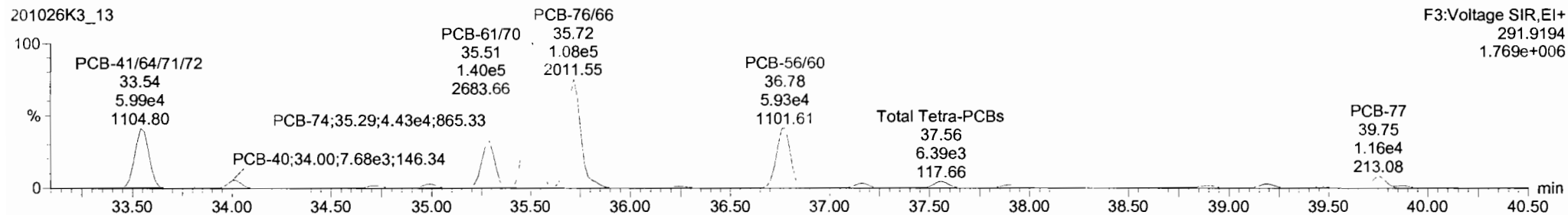
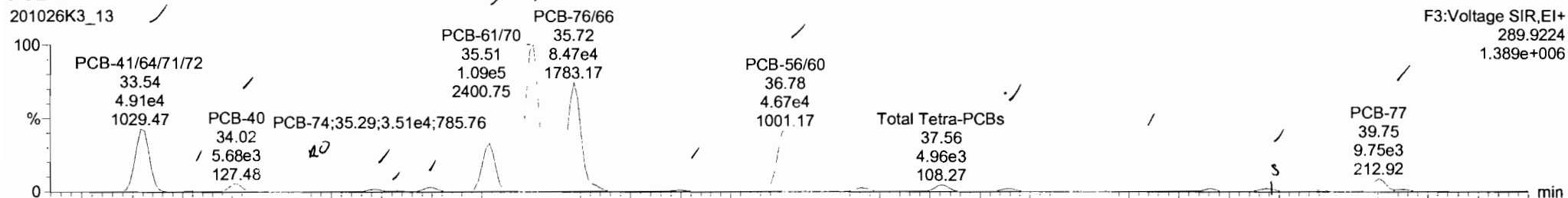


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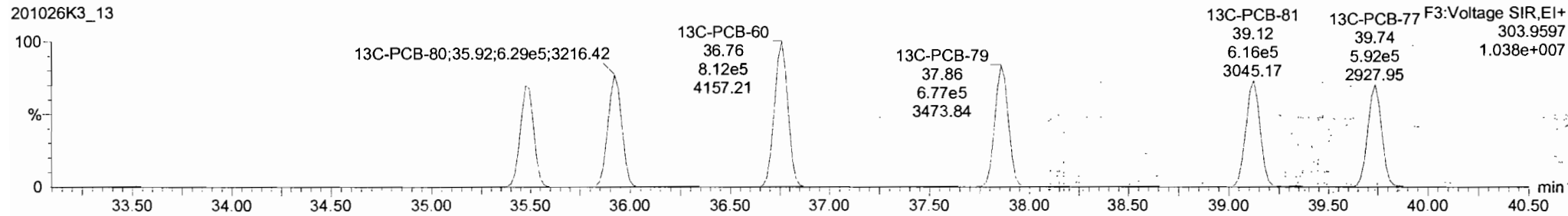
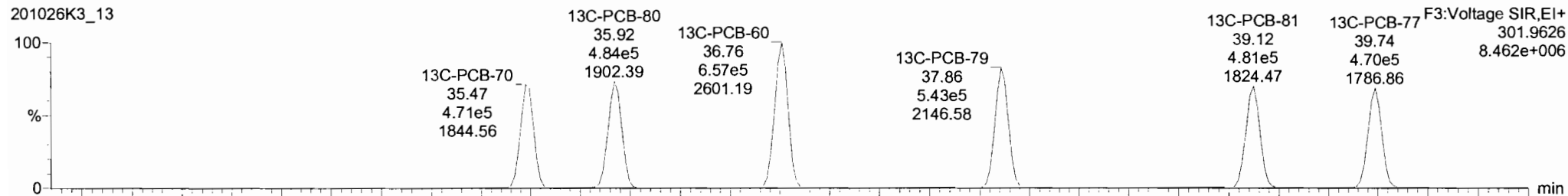
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Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

**PCB-68**

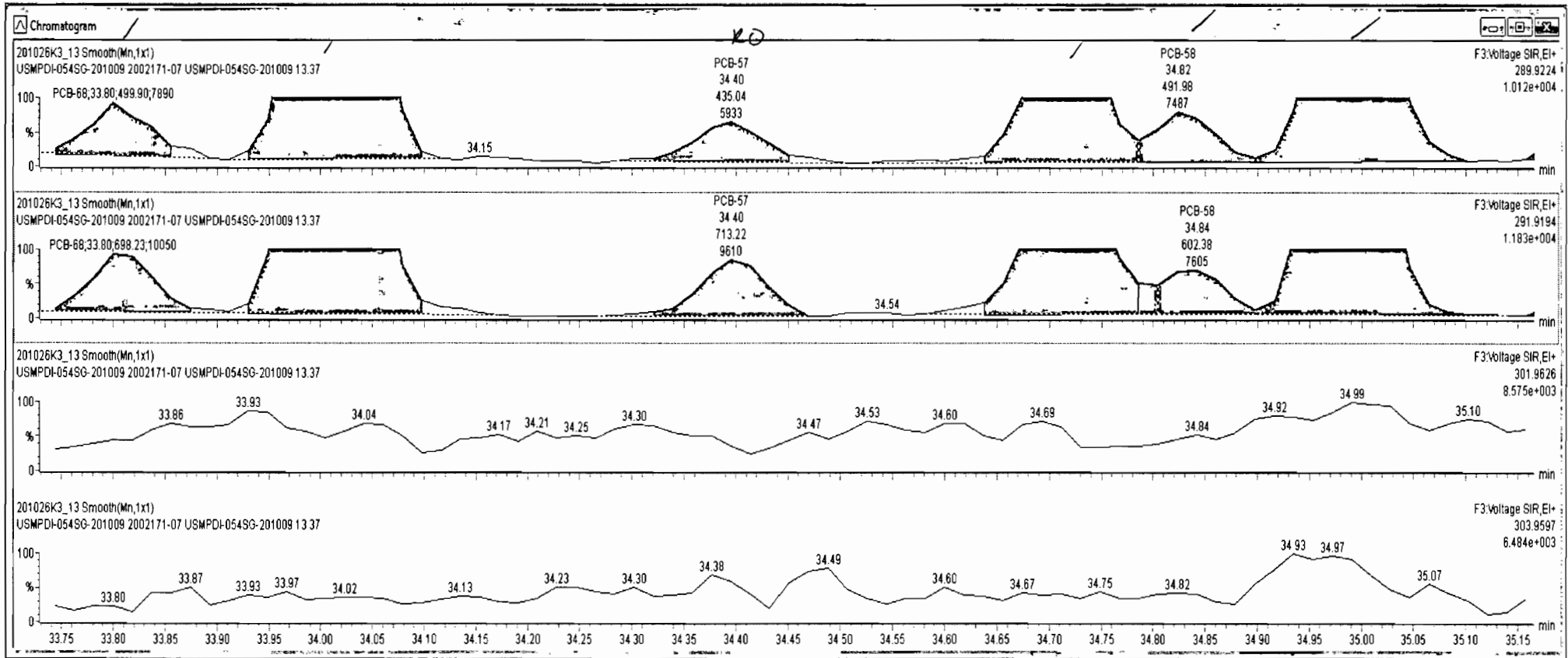


**13C-PCB-60**



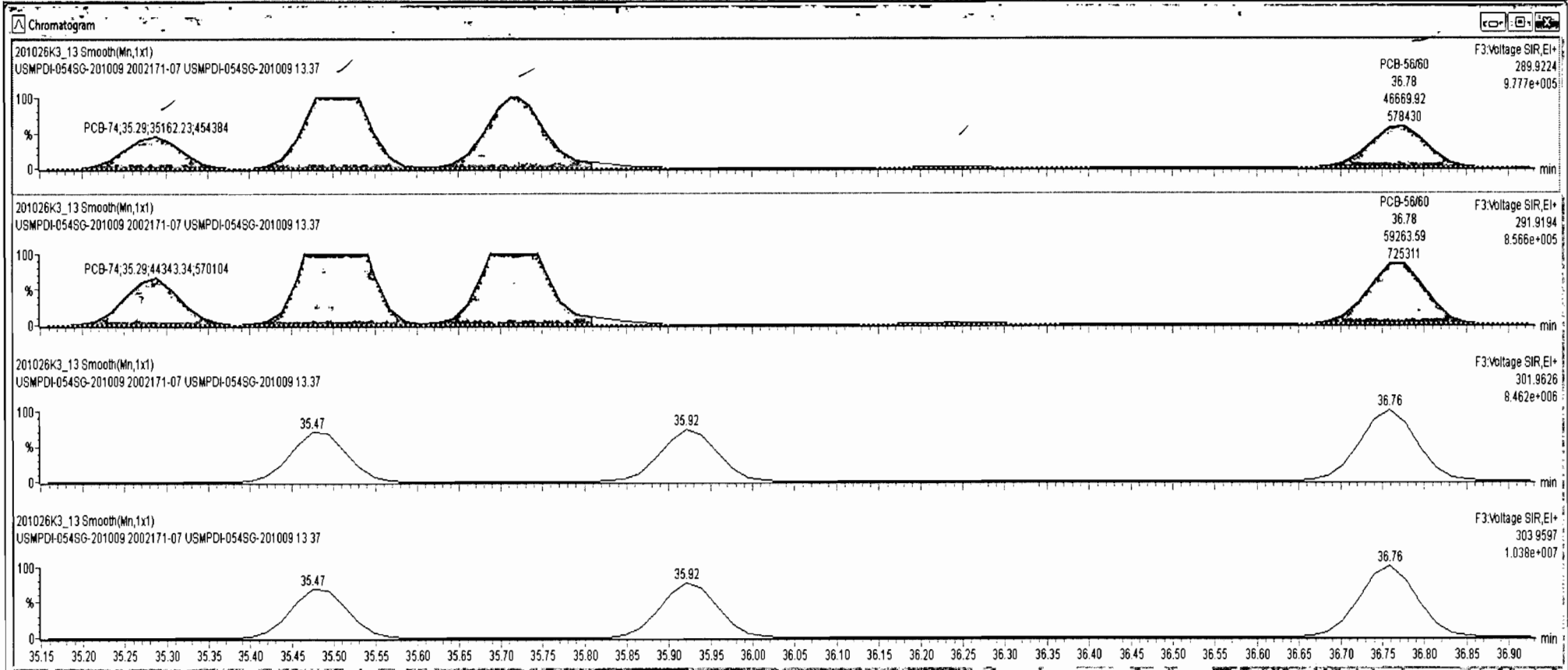
#	Name	Resp	RA	nly	RF	wVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2743		12.7	2746
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	32 PCB-54	27.70	27.70	9.845e2	1.320e3	0.770	0.75	NO	4.4205	4.4205
2	33 PCB-50	28.91	28.91	2.260e2	4.011e2	0.770	0.56	YES	1.2233	0.00000
3	34 PCB-53	29.58	29.58	7.767e3	1.023e4	0.770	0.76	NO	43.377	43.377
4	35 PCB-51	29.93	29.91	4.288e3	5.308e3	0.770	0.81	NO	21.646	21.646
5	36 PCB-45	30.38	30.38	4.559e3	6.367e3	0.770	0.72	NO	30.581	30.581
6	37 PCB-46	30.88	30.88	2.331e3	2.898e3	0.770	0.80	NO	15.122	15.122
7	38 PCB-5269	31.38	31.38	9.542e4	1.226e5	0.770	0.78	NO	448.97	448.97
8	39 PCB-73	31.49	31.45	4.295e2	6.125e2	0.770	0.70	NO	1.7349	1.7349
9	40 PCB-4349	31.67	31.68	5.088e4	6.321e4	0.770	0.81	NO	270.00	270.00



#	Name	Resp	RA	nly	RFF	WtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2731		12.7	2738
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	Ty	EMPC	Conc.
1	32 PCB-54	27.70	27.70	9.845e2	1.320e3	0.770	0.75	NO	4.4205	4.4205
2	33 PCB-50	28.91	28.91	2.260e2	4.011e2	0.770	0.56	YES	1.2233	0.00000
3	34 PCB-53	29.58	29.58	7.767e3	1.023e4	0.770	0.76	NO	43.377	43.377
4	35 PCB-51	29.93	29.91	4.289e3	5.308e3	0.770	0.81	NO	21.646	21.646
5	36 PCB-45	30.38	30.36	4.559e3	6.367e3	0.770	0.72	NO	30.581	30.581
6	37 PCB-46	30.88	30.86	2.331e3	2.898e3	0.770	0.80	NO	15.122	15.122
7	38 PCB-5269	31.38	31.36	9.542e4	1.226e5	0.770	0.78	NO	448.97	448.97
8	39 PCB-73	31.49	31.45	4.285e2	6.125e2	0.770	0.70	NO	1.7349	1.7349
9	40 PCB-4349	31.67	31.68	5.098e4	6.321e4	0.770	0.81	NO	270.00	270.00

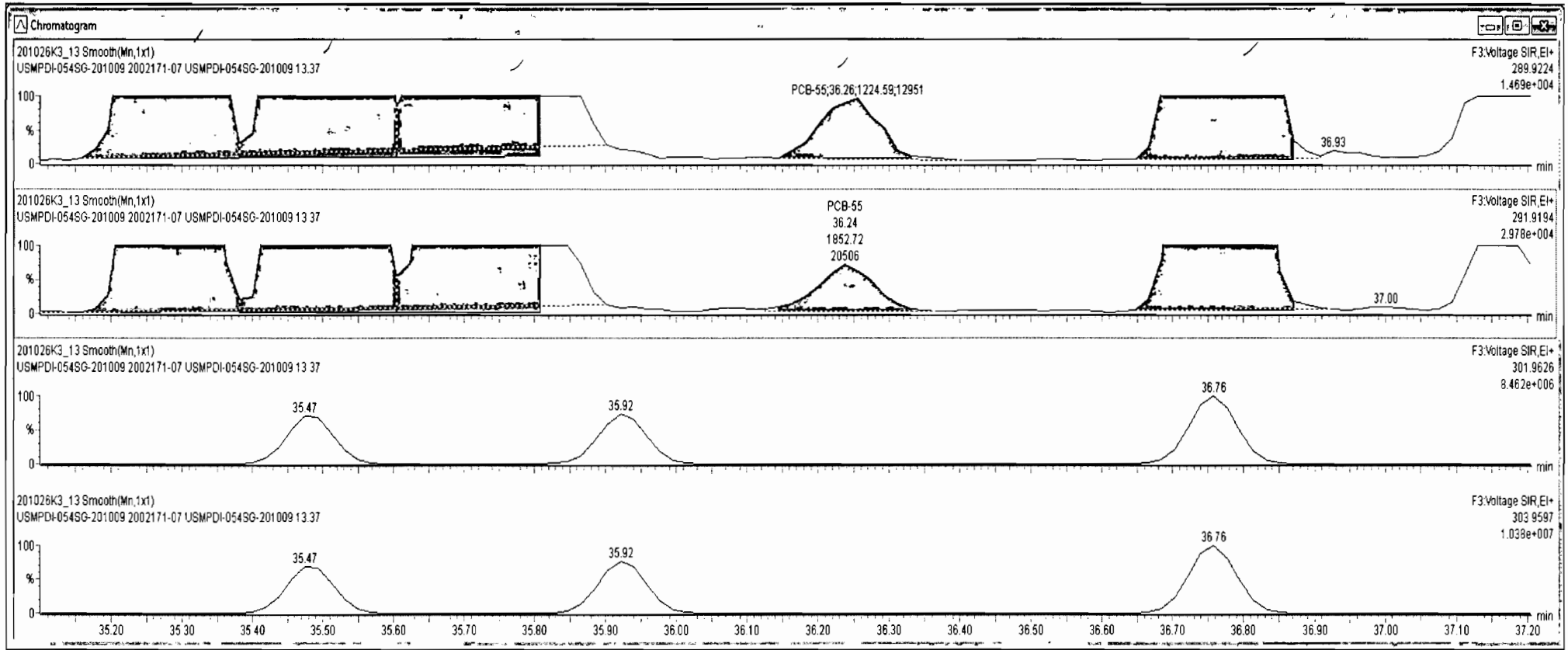




201026K3\_13 - 2002171-07 USMPDI-054SG-201009 13.37 - USMPDI-054SG-201009

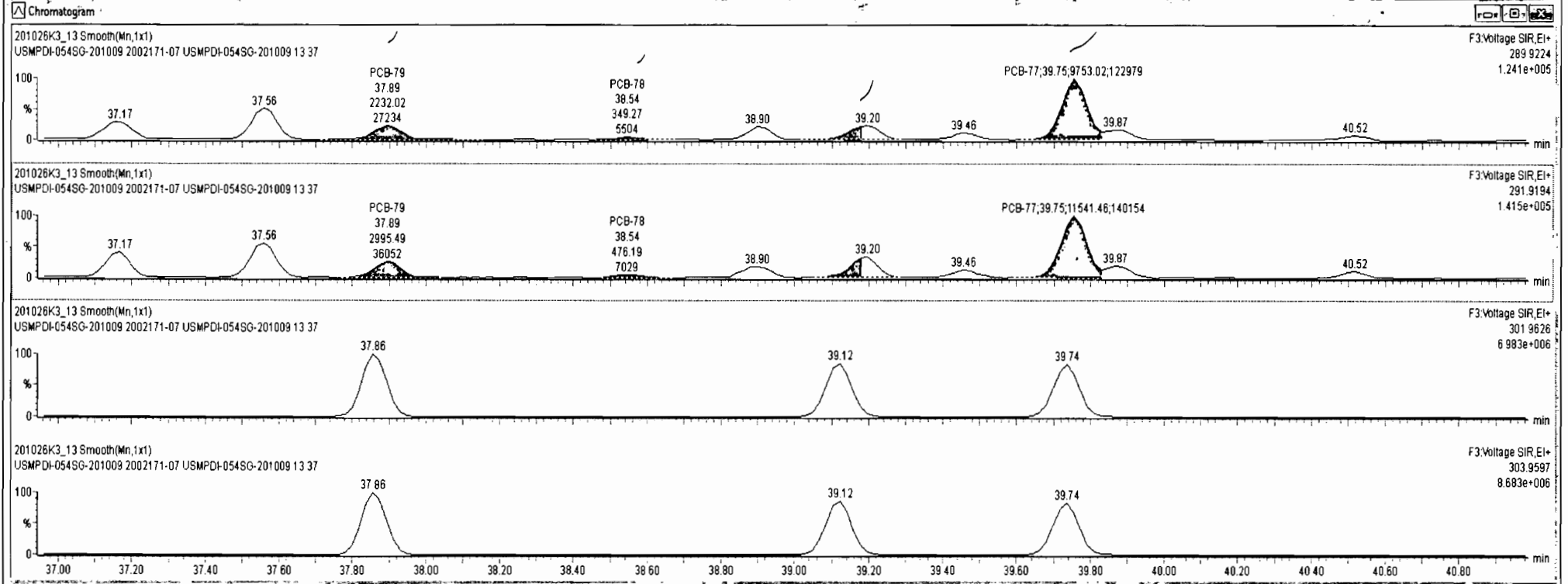
#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1685	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2735		12.7	2738
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4077
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.70	27.70	9.845e2	1.320e3	0.770	0.75	NO	4.4205	4.4205
2	33 PCB-50	28.91	28.91	2.260e2	4.011e2	0.770	0.56	YES	1.2233	0.00000
3	34 PCB-53	29.58	29.58	7.767e3	1.023e4	0.770	0.76	NO	43.377	43.377
4	35 PCB-51	29.93	29.91	4.288e3	5.308e3	0.770	0.81	NO	21.646	21.646
5	36 PCB-45	30.38	30.36	4.559e3	6.367e3	0.770	0.72	NO	30.581	30.581
6	37 PCB-46	30.88	30.86	2.331e3	2.898e3	0.770	0.80	NO	15.122	15.122
7	38 PCB-52/69	31.38	31.36	9.542e4	1.226e5	0.770	0.78	NO	448.97	448.97
8	39 PCB-73	31.49	31.45	4.295e2	6.125e2	0.770	0.70	NO	1.7349	1.7349
9	40 PCB-43/49	31.67	31.68	5.098e4	6.321e4	0.770	0.81	NO	270.00	270.00



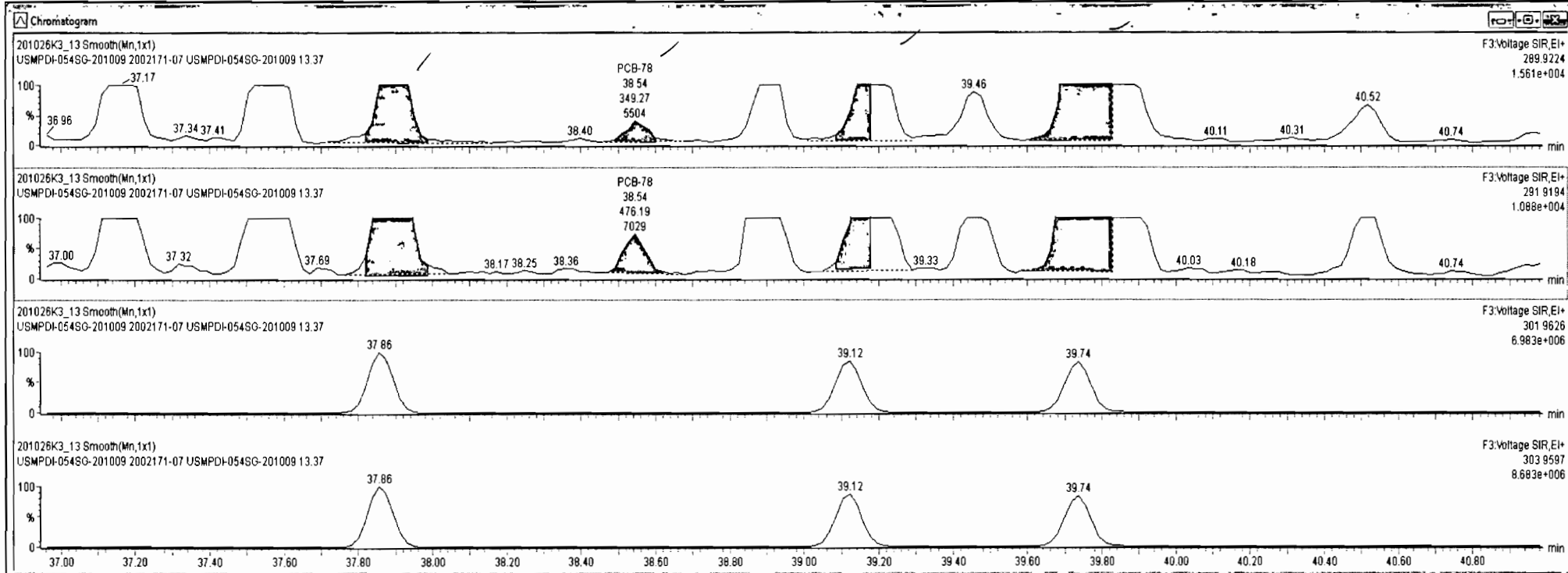
#	Name	Resp	RA	n/y	RRF	wMol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	-5.142	0.00		0.000		NO	2728		12.7	2791
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4062		12.7	4100
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	260.5		2.58	260.5
231	231 3rd Function Hexa-PCBs				0.9505	5.142	0.00		0.000		NO	1077		3.22	1083
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1939		8.82	1970

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.70	27.70	9.845e2	1.320e3	0.770	0.75	NO	4.4205	4.4205
2	33 PCB-50	28.91	28.91	2.260e2	4.011e2	0.770	0.56	YES	1.2233	0.00000
3	34 PCB-53	29.58	29.58	7.767e3	1.023e4	0.770	0.76	NO	43.377	43.377
4	35 PCB-51	29.53	29.91	4.288e3	5.308e3	0.770	0.81	NO	21.646	21.646
5	36 PCB-45	30.38	30.38	4.559e3	6.367e3	0.770	0.72	NO	30.581	30.581
6	37 PCB-46	30.88	30.86	2.331e3	2.898e3	0.770	0.80	NO	15.122	15.122
7	38 PCB-52/69	31.38	31.36	9.542e4	1.226e5	0.770	0.78	NO	448.97	448.97
8	39 PCB-73	31.49	31.45	4.295e2	6.125e2	0.770	0.70	NO	1.7349	1.7349
9	40 PCB-43/49	31.67	31.68	5.088e4	6.321e4	0.770	0.81	NO	270.00	270.00



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2728		12.7	2731
229	3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4062		12.7	4100
230	4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	260.5		2.58	260.5
231	3rd Function Hexa-PCBs				0.9505	5.142	0.00		0.000		NO	1077		3.22	1083
232	4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1939		8.82	1970

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.70	27.70	9.845e2	1.320e3	0.770	0.75	NO	4.4205	4.4205
2	33 PCB-50	28.91	28.91	2.260e2	4.011e2	0.770	0.56	YES	1.2233	0.00000
3	34 PCB-53	29.58	29.58	7.767e3	1.023e4	0.770	0.76	NO	43.377	43.377
4	35 PCB-51	29.93	29.91	4.288e3	5.308e3	0.770	0.81	NO	21.646	21.646
5	36 PCB-45	30.38	30.36	4.559e3	6.367e3	0.770	0.72	NO	30.581	30.581
6	37 PCB-46	30.86	30.86	2.331e3	2.898e3	0.770	0.80	NO	15.122	15.122
7	38 PCB-52/69	31.38	31.36	9.542e4	1.226e5	0.770	0.78	NO	448.97	448.97
8	39 PCB-73	31.49	31.45	4.295e2	6.125e2	0.770	0.70	NO	1.7349	1.7349
9	40 PCB-43/49	31.67	31.68	5.098e4	6.321e4	0.770	0.81	NO	270.00	270.00



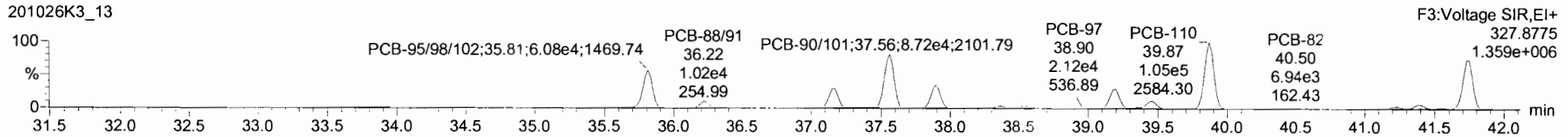
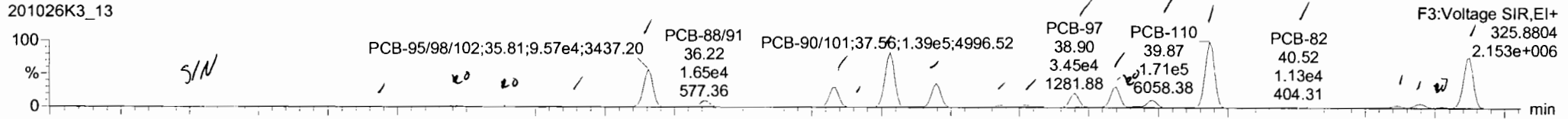
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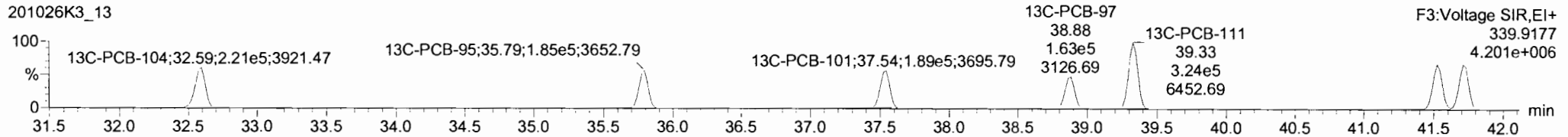
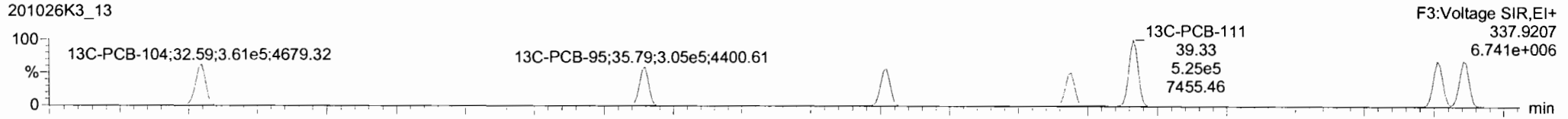
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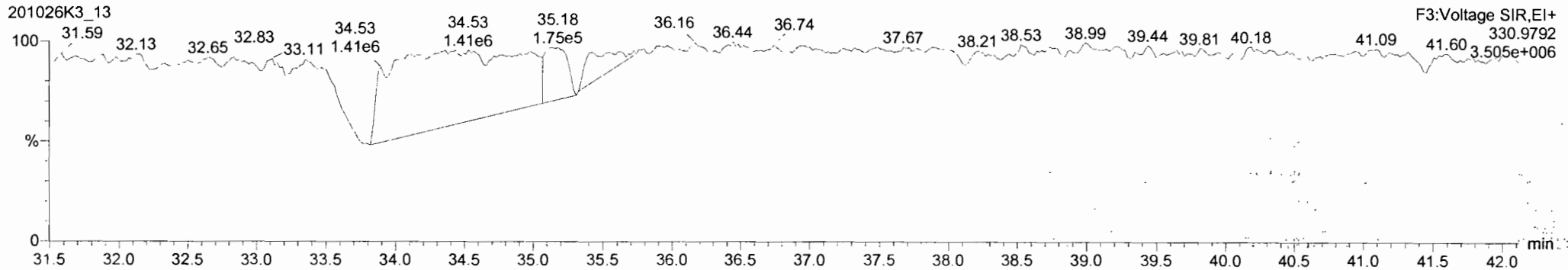
**PCB-104**



**13C-PCB-104**



**PFK3b**

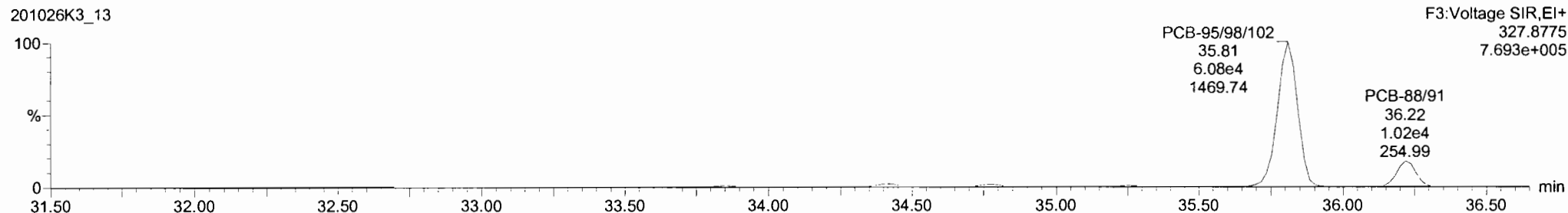
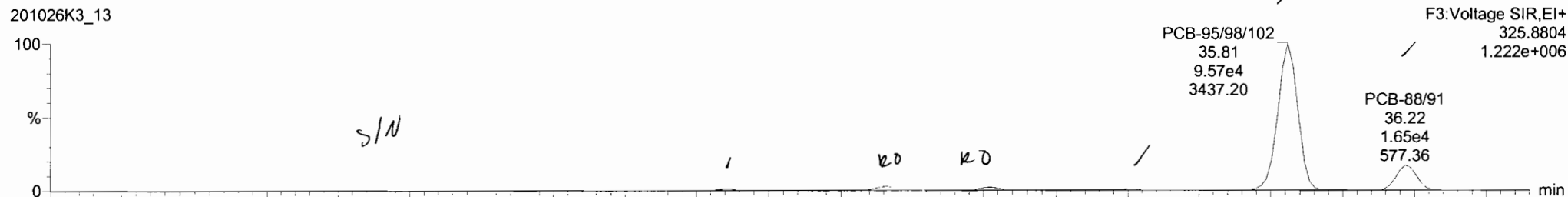


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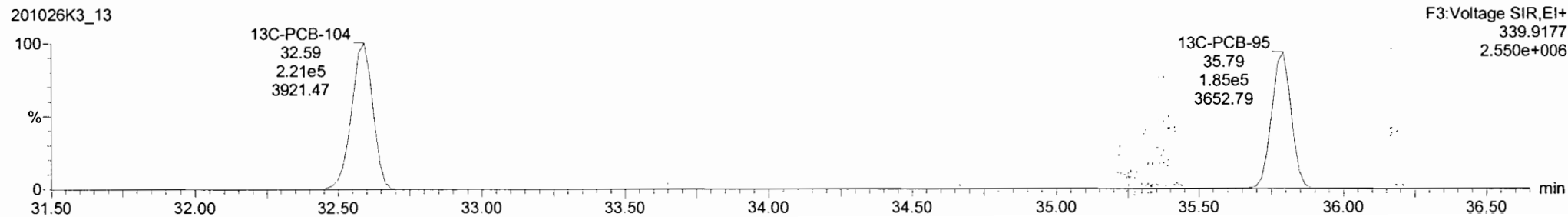
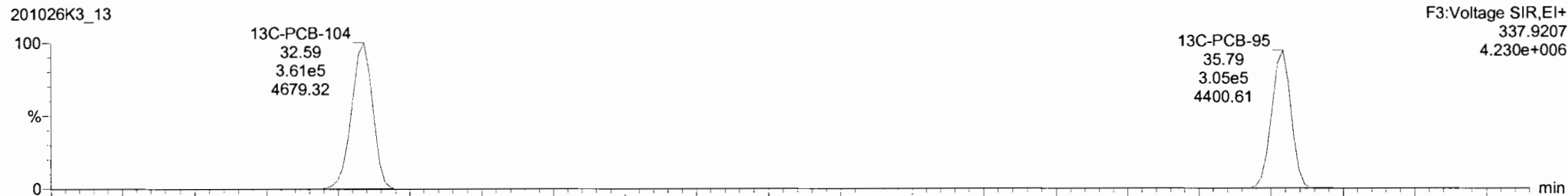
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Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

**PCB-96**

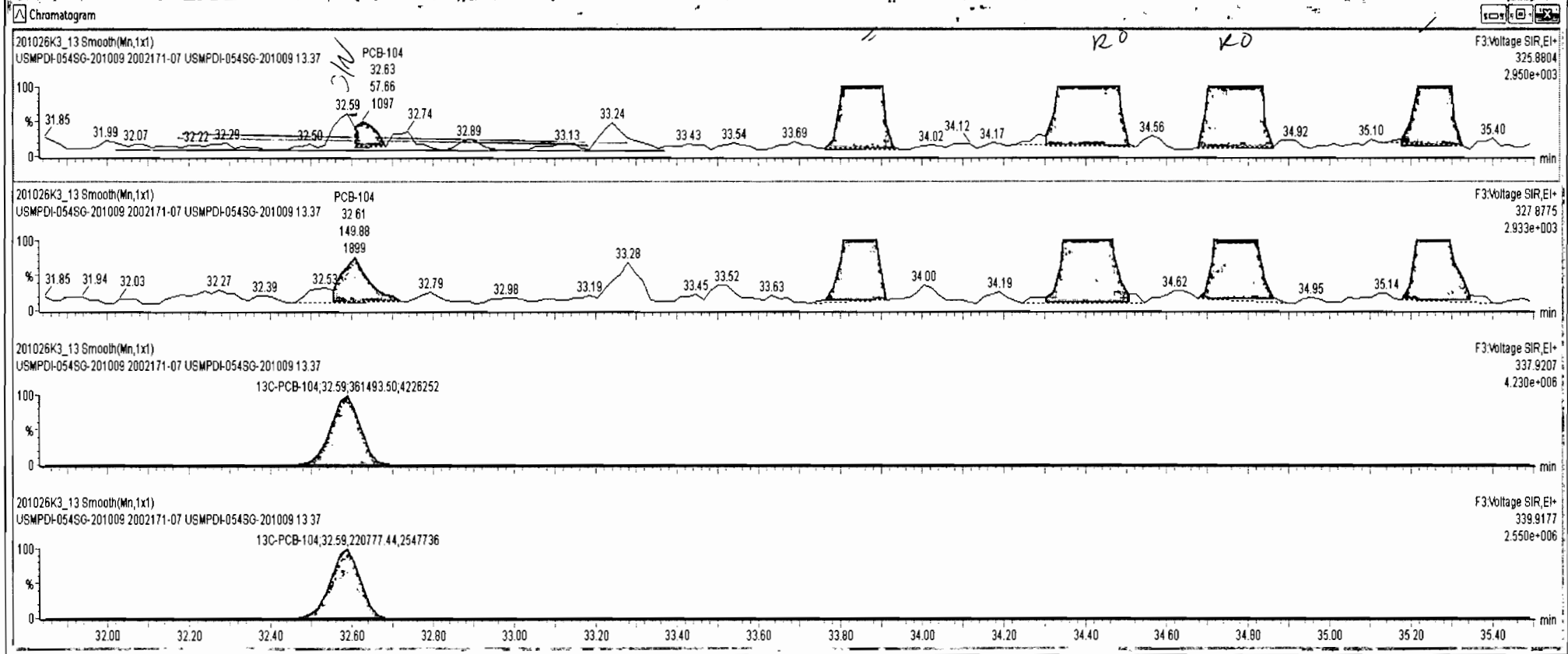


**13C-PCB-95**



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9826	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2735		12.7	2738
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4076
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

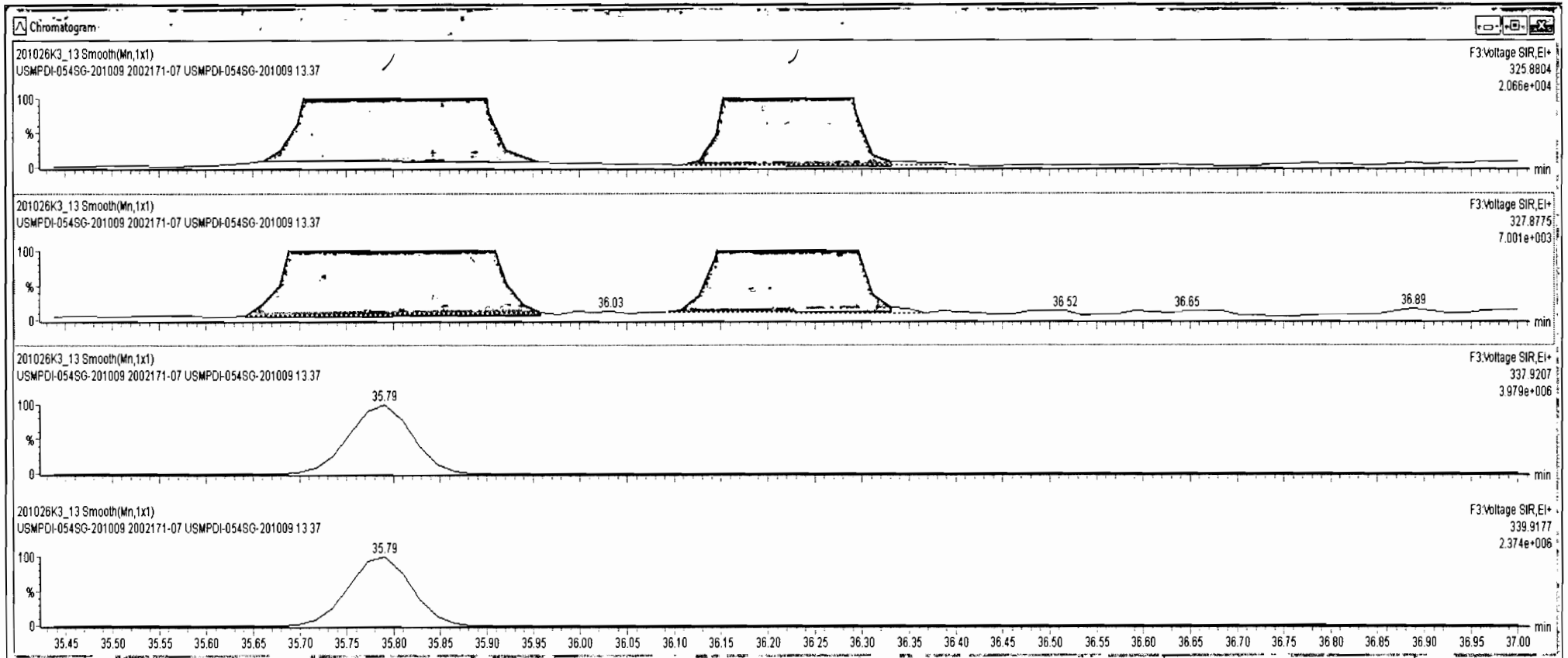
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	64 PCB-104	32.61	32.63	5.766e1	1.499e2	1.560	0.38	YES	0.26162	0.00000
2	65 PCB-96	33.92	33.86	8.184e2	4.881e2	1.560	1.68	NO	3.7816	3.7816
3	66 PCB-103	34.47	34.41	2.398e3	1.277e3	1.560	1.88	YES	11.659	0.00000
4	67 PCB-100	34.85	34.77	1.778e3	9.344e2	1.560	1.90	YES	8.3777	0.00000
5	68 PCB-94	35.27	35.25	6.127e2	4.317e2	1.560	1.42	NO	4.3758	4.3758
6	69 PCB-95/90/02	35.74	35.61	9.574e4	6.079e4	1.560	1.58	NO	516.63	516.63
7	71 PCB-88/91	36.22	36.22	1.654e4	1.024e4	1.560	1.62	NO	99.961	99.961
8	73 PCB-84/82	37.17	37.17	5.121e4	3.151e4	1.560	1.63	NO	321.83	321.83
9	74 PCB-89	37.36	37.35	9.741e2	6.901e2	1.560	1.41	NO	5.9627	5.9627



201026K3\_13 - 2002171-07 USMPDI-054SG-201009 13.37 - USMPDI-054SG-201009

#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1685	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9826	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2735		12.7	2738
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4024		12.7	4078
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	65 PCB-96	33.92	33.86	8.184e2	4.881e2	1.560	1.68	NO	3.7816	3.7816
2	66 PCB-103	34.47	34.41	2.399e3	1.277e3	1.560	1.88	YES	11.659	0.00000
3	67 PCB-100	34.85	34.77	1.778e3	9.344e2	1.560	1.90	YES	8.3777	0.00000
4	68 PCB-94	35.27	35.25	6.127e2	4.317e2	1.560	1.42	NO	4.3758	4.3758
5	69 PCB-95/88/102	35.74	35.81	9.574e4	6.085e4	1.560	1.57	NO	516.85	516.85
6	71 PCB-88/91	36.22	36.22	1.650e4	1.022e4	1.560	1.61	NO	99.755	99.755
7	73 PCB-84/92	37.17	37.17	5.121e4	3.151e4	1.560	1.63	NO	321.83	321.83
8	74 PCB-89	37.36	37.35	9.741e2	6.901e2	1.560	1.41	NO	5.9627	5.9627
9	75 PCB-90/101	37.55	37.56	1.389e5	8.717e4	1.560	1.59	NO	797.18	797.18

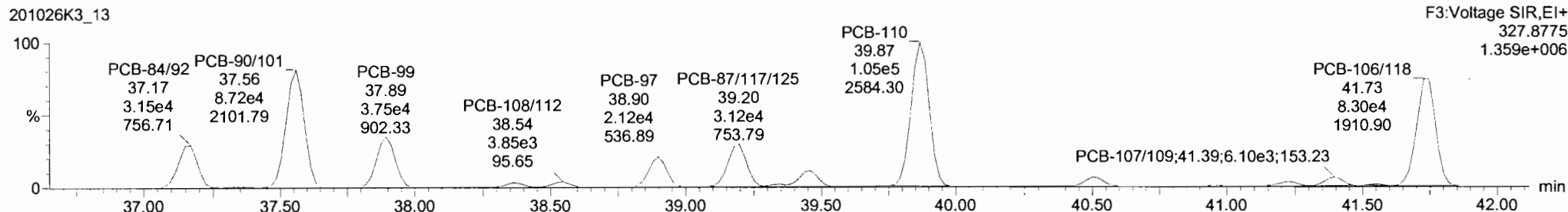
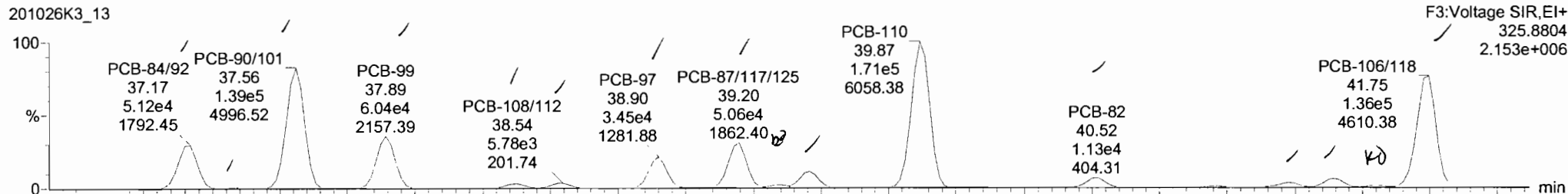


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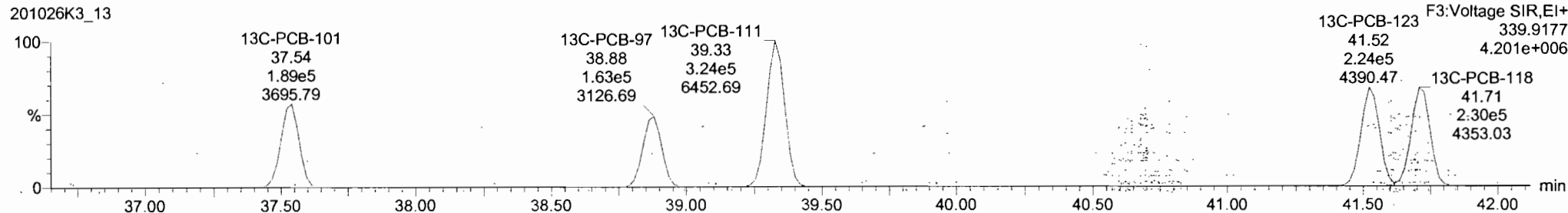
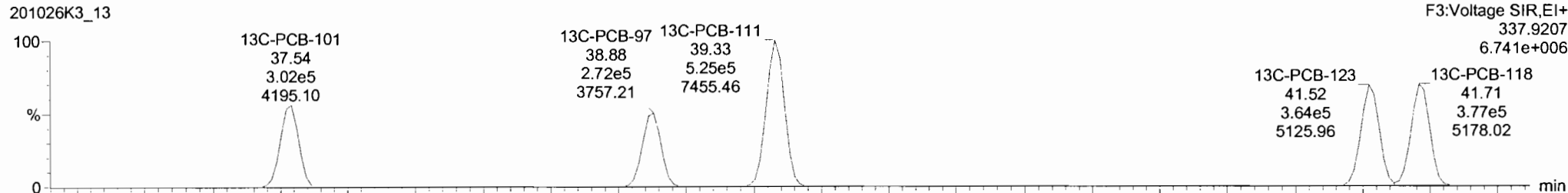
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Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

**PCB-119**



**13C-PCB-111**

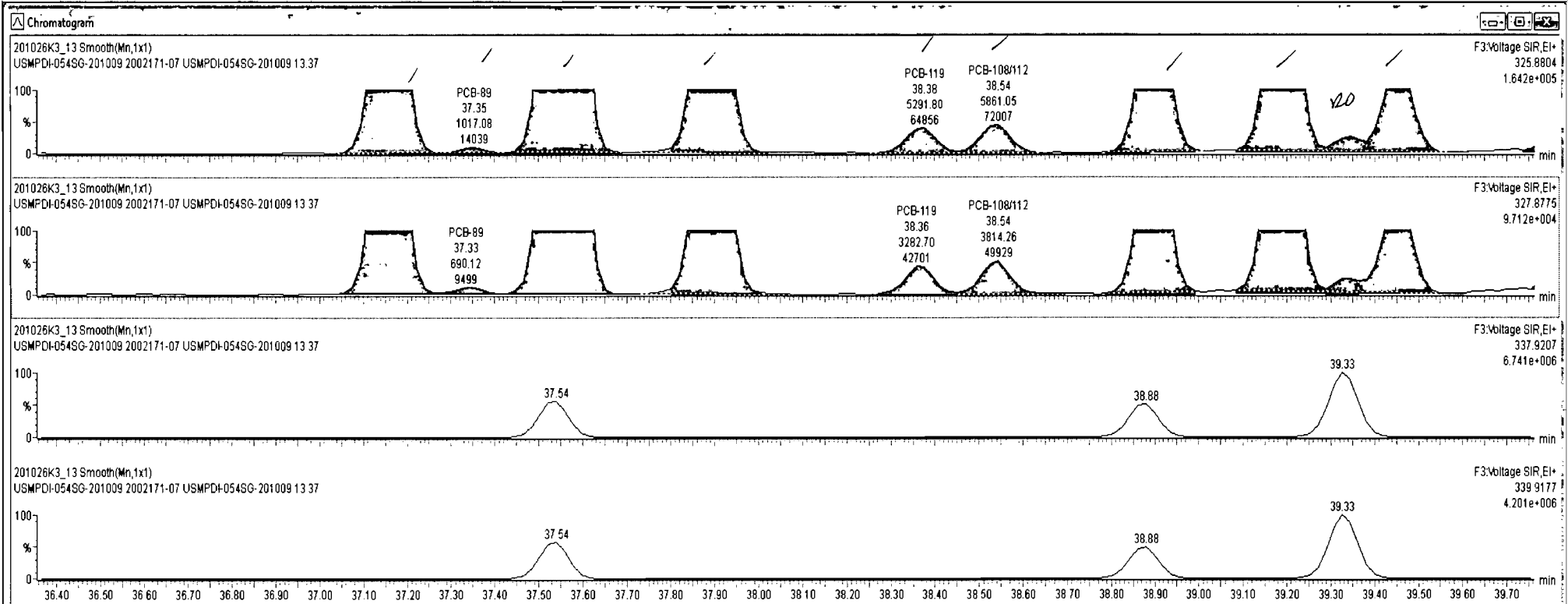




201026K3\_13 - 2002171-07 USMPDI-054SG-201009 13 37 - USMPDI-054SG-201009

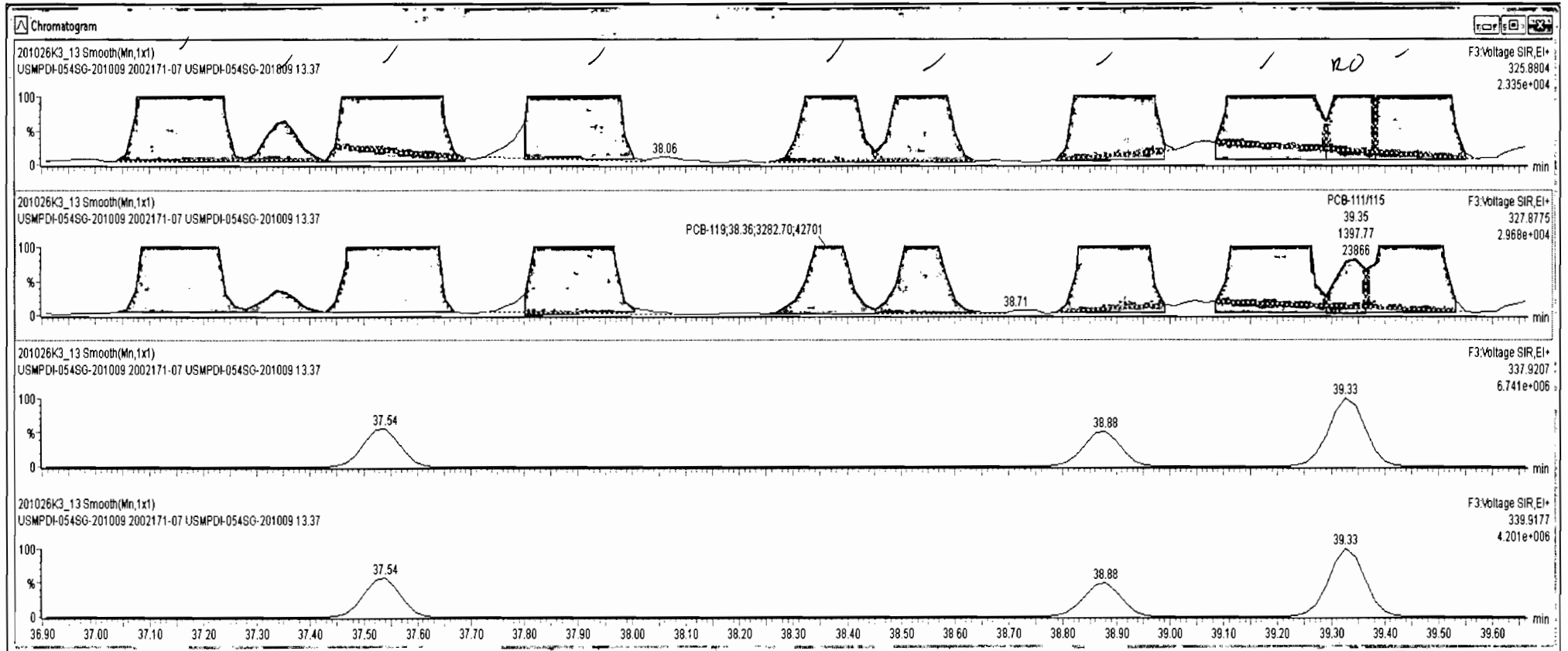
#	Name	Resp	RA	nV	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	27.35		12.7	27.38
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4034		12.7	4088
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred RT	RT	m1 Resp	m2 Resp	% Ratio (Pred)	RA	nV	EMPC	Conc.
9	75 PCB-90/101	37.55	37.56	1.396e5	8.717e4	1.560	1.60	NO	799.98	799.98
10	77 PCB-99	37.90	37.89	6.005e4	3.730e4	1.560	1.61	NO	291.79	291.79
11	78 PCB-119	38.38	38.38	5.292e3	3.283e3	1.560	1.61	NO	21.238	21.238
12	79 PCB-108/112	38.53	38.54	5.861e3	3.814e3	1.560	1.54	NO	29.940	29.940
13	81 PCB-97	38.90	38.90	3.487e4	2.157e4	1.560	1.62	NO	196.86	196.86
14	83 PCB-87/117/125	39.19	39.20	5.163e4	3.206e4	1.560	1.61	NO	240.04	240.04
15	84 PCB-111/115	39.35	39.35	2.903e3	1.398e3	1.560	2.08	YES	8.3753	0.00000
16	85 PCB-85/116	39.47	39.46	1.888e4	1.223e4	1.560	1.54	NO	98.597	98.597
17	87 PCB-110	39.89	39.87	1.713e5	1.054e5	1.560	1.63	NO	710.18	710.18



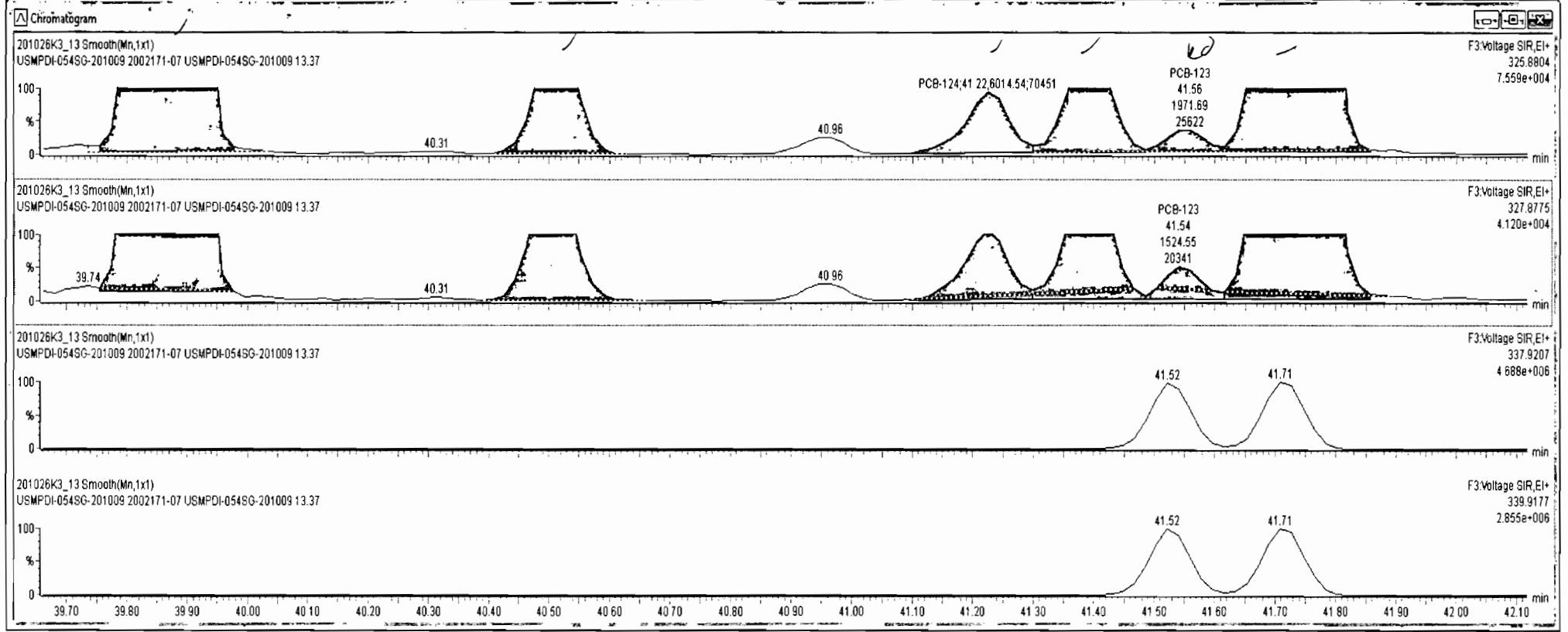
#	Name	Resp	RA	nly	RFF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	28.66		0.793	28.66
225	Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2735		12.7	2738
229	3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4034		12.7	4088
230	4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	65 PCB-96	33.92	33.86	8.184e2	4.881e2	1.560	1.68	NO	3.7816	3.7816
2	66 PCB-103	34.47	34.41	2.398e3	1.277e3	1.560	1.88	YES	11.859	0.00000
3	67 PCB-100	34.85	34.77	1.778e3	9.344e2	1.560	1.90	YES	8.3777	0.00000
4	68 PCB-94	35.27	35.25	6.127e2	4.317e2	1.560	1.42	NO	4.3758	4.3758
5	69 PCB-95/98/102	35.74	35.81	9.574e4	6.085e4	1.560	1.57	NO	516.85	516.85
6	71 PCB-88/91	36.22	36.22	1.650e4	1.022e4	1.560	1.61	NO	99.755	99.755
7	73 PCB-84/92	37.17	37.17	5.124e4	3.151e4	1.560	1.63	NO	321.93	321.93
8	74 PCB-89	37.36	37.35	1.017e3	6.901e2	1.560	1.47	NO	6.1168	6.1168
9	75 PCB-90/101	37.55	37.58	1.366e5	8.717e4	1.560	1.60	NO	799.98	799.98



#	Name	Resp	RA	n/y	RRF	Wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	26.66		0.793	26.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2735		12.7	2738
229	229 3rd Function Penta-PCBs				1.2157	5.142	0.00		0.000		NO	4062		12.7	4100
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	255.5		2.58	263.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	65 PCB-96	33.92	33.86	8.184e2	4.881e2	1.560	1.68	NO	3.7816	3.7816
2	66 PCB-103	34.47	34.41	2.398e3	1.277e3	1.560	1.88	YES	11.659	0.00000
3	67 PCB-100	34.85	34.77	1.778e3	9.344e2	1.560	1.90	YES	8.3777	0.00000
4	68 PCB-94	35.27	35.25	6.127e2	4.317e2	1.560	1.42	NO	4.3758	4.3758
5	69 PCB-95/98/102	35.74	35.81	9.574e4	6.085e4	1.560	1.57	NO	516.85	516.85
6	71 PCB-88/91	36.22	36.22	1.650e4	1.022e4	1.560	1.61	NO	99.755	99.755
7	73 PCB-84/92	37.17	37.17	5.124e4	3.151e4	1.560	1.63	NO	321.93	321.93
8	74 PCB-89	37.36	37.35	1.017e3	6.901e2	1.560	1.47	NO	6.1168	6.1168
9	75 PCB-90/101	37.55	37.56	1.396e5	8.717e4	1.560	1.60	NO	799.98	799.98

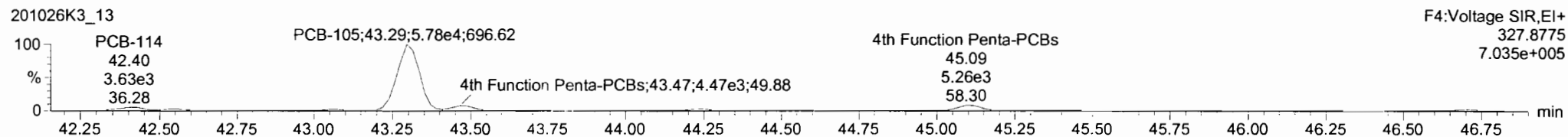
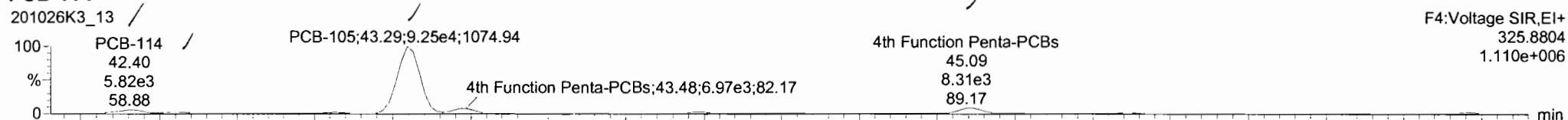


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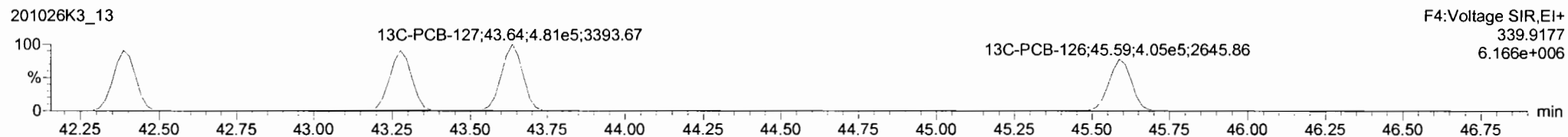
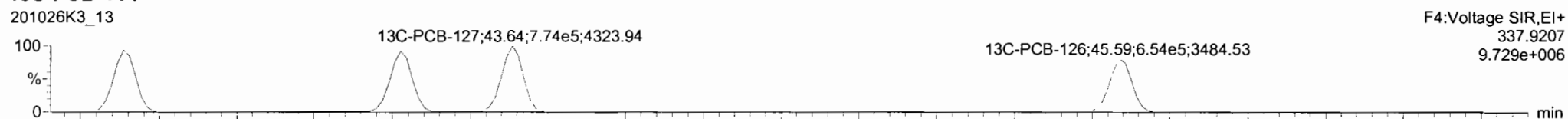
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Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

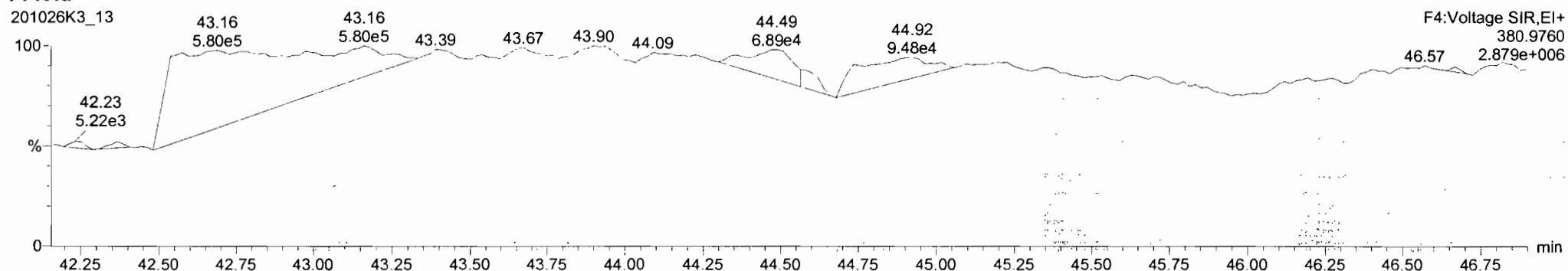
**PCB-114**



**13C-PCB-114**

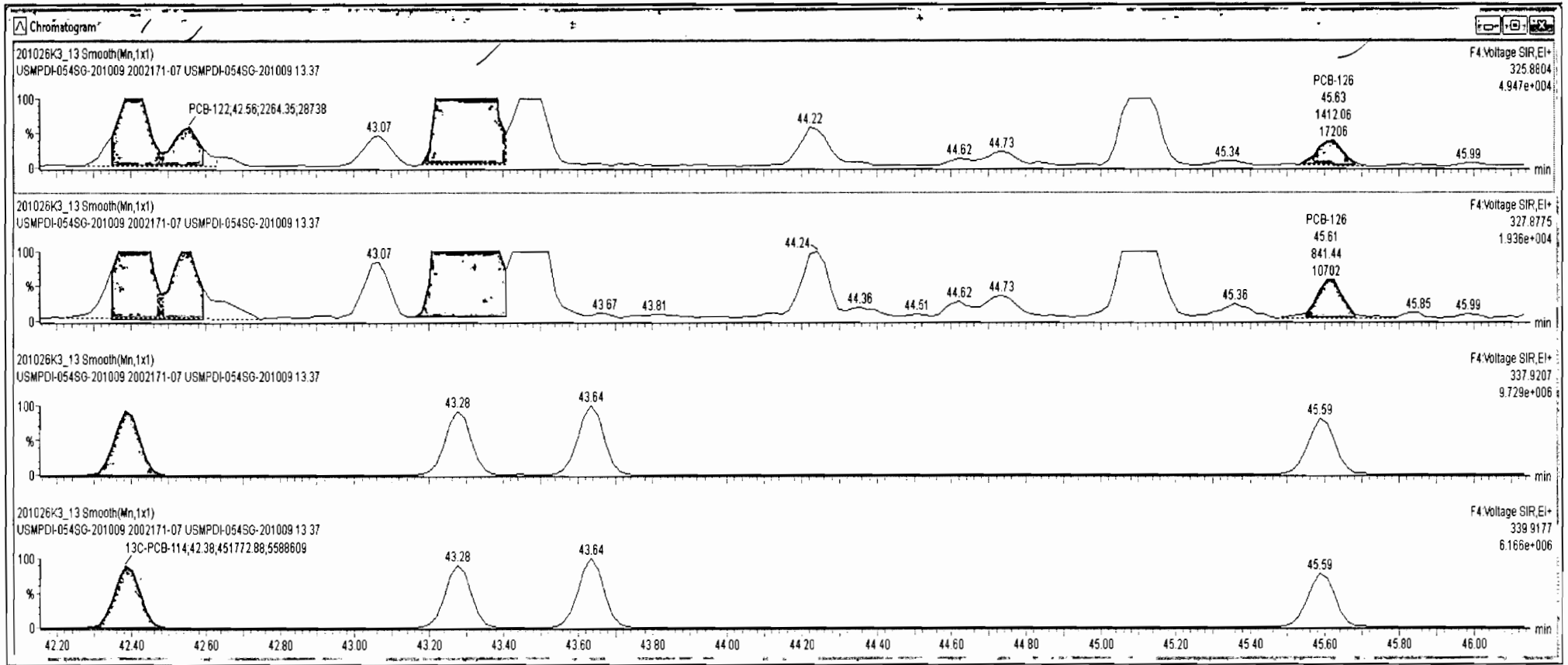


**PFK4a**



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00		0.000		NO	26.66		0.793	26.66
225	225 Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9826	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2735		12.7	2738
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4062		12.7	4100
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	260.5		2.58	260.5

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	93 PCB-114	42.41	42.40	5.187e3	3.234e3	1.560	1.60	NO	12.158	12.158
2	94 PCB-122	42.55	42.56	2.264e3	1.585e3	1.560	1.45	NO	6.6824	6.6824
3	95 PCB-105	43.29	43.29	9.249e4	5.777e4	1.550	1.60	NO	238.16	238.16
4	97 PCB-126	45.61	45.63	1.412e3	8.414e2	1.560	1.68	NO	3.5290	3.5290



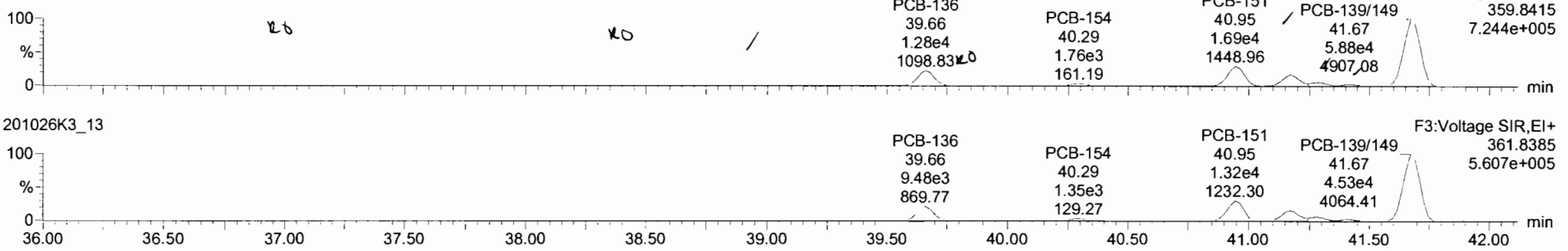
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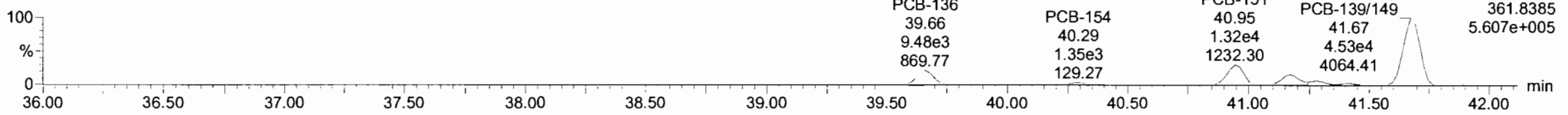
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**PCB-155**

201026K3\_13

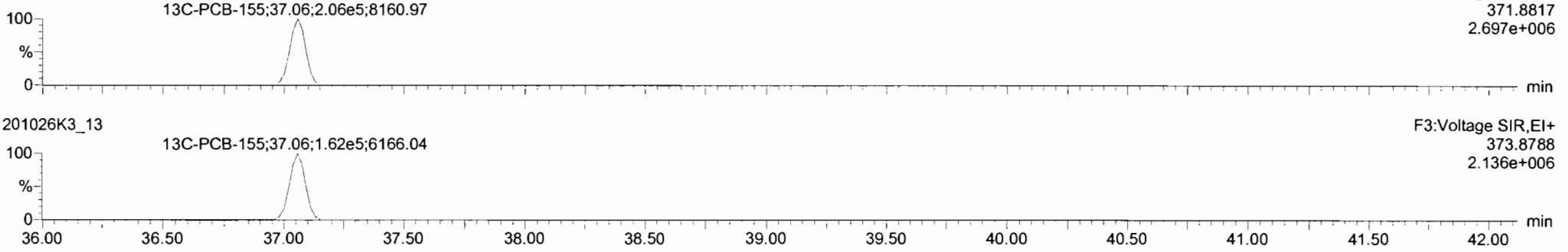


201026K3\_13

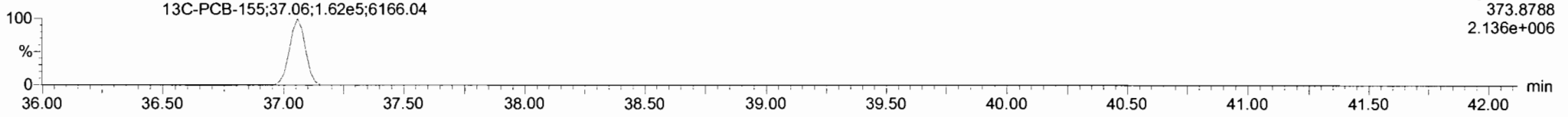


**13C-PCB-155**

201026K3\_13

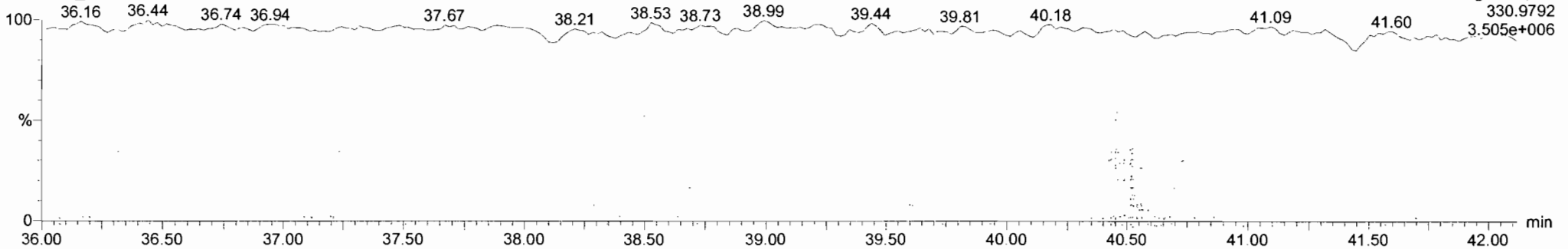


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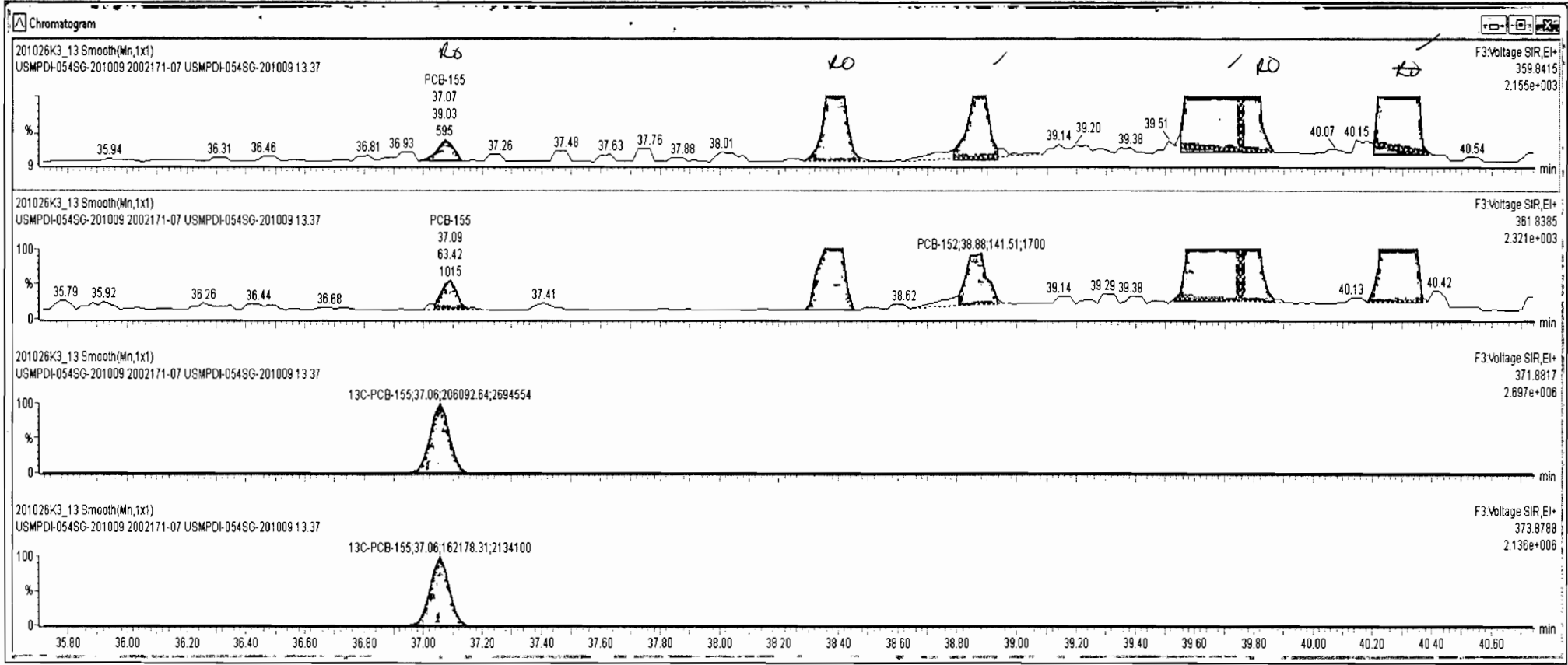
**PFK3c**

201026K3\_13



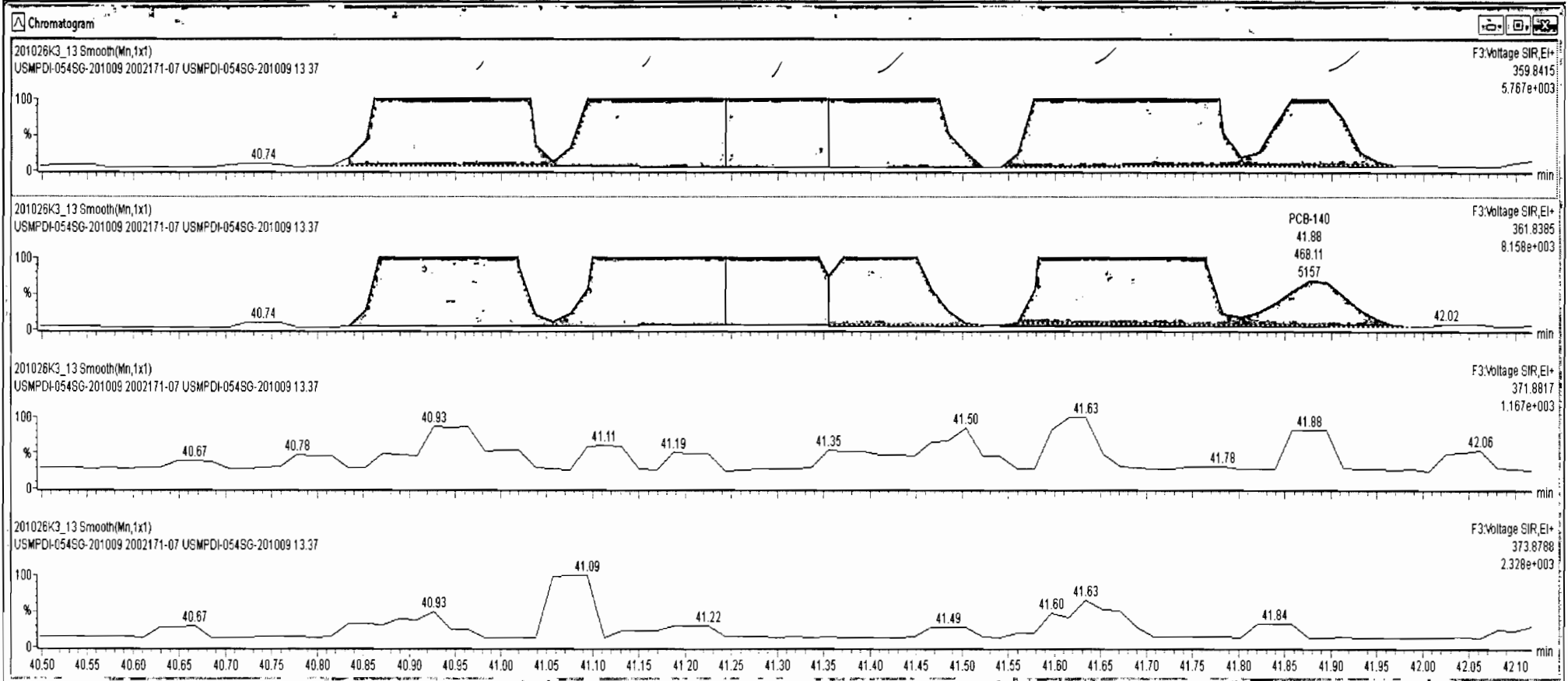
#	Name	Resp	RA	n/y	RPF	wVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	224 Total Mono-PCBs				1.1665	5.142	0.00	0.000		0.000	NO	28.66		0.793	28.66
225	225 Total Di-PCBs				1.0537	5.142	0.00	0.000		0.000	NO	175.4		4.11	175.4
226	226 2nd Function Tri-PCBs				1.0807	5.142	0.00	0.000		0.000	NO	182.0		3.37	182.0
227	227 3rd Function Tri-PCBs				0.9828	5.142	0.00	0.000		0.000	NO	546.1		6.23	550.9
228	228 Total Tetra-PCBs				1.0778	5.142	0.00	0.000		0.000	NO	2735		12.7	2738
229	229 3rd Function Penta-PCBs				1.3157	5.142	0.00	0.000		0.000	NO	4062		12.7	4100
230	230 4th Function Penta-PCBs				1.0735	5.142	0.00	0.000		0.000	NO	260.5		2.58	260.5

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	98 PCB-155	37.07	37.07	3.903e1	6.342e1	1.240	0.62	YES	0.35672	0.00000
2	99 PCB-150	38.38	38.40	2.435e2	2.453e2	1.240	0.99	YES	2.1443	0.00000
3	100 PCB-152	38.86	38.88	1.867e2	1.415e2	1.240	1.32	NO	1.4607	1.4607
4	102 PCB-136	39.66	39.66	1.262e4	9.484e3	1.240	1.35	NO	115.35	115.35
5	103 PCB-148	39.76	39.77	2.811e2	2.781e2	1.240	1.01	YES	3.1863	0.00000
6	104 PCB-154	40.28	40.29	1.790e3	1.349e3	1.240	1.33	NO	18.040	18.040
7	105 PCB-151	40.95	40.94	1.686e4	1.320e4	1.240	1.28	NO	201.84	201.84
8	106 PCB-135	41.17	41.17	9.731e3	7.462e3	1.240	1.30	NO	98.440	98.440
9	107 PCB-144	41.28	41.28	3.021e3	2.621e3	1.240	1.15	NO	37.765	37.765



#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
224	Total Mono-PCBs				1.1685	5.142	0.00		0.000		NO	26.66		0.793	26.66
225	Total Di-PCBs				1.0537	5.142	0.00		0.000		NO	175.4		4.11	175.4
226	2nd Function Tri-PCBs				1.0807	5.142	0.00		0.000		NO	182.0		3.37	182.0
227	3rd Function Tri-PCBs				0.9826	5.142	0.00		0.000		NO	546.1		6.23	550.9
228	Total Tetra-PCBs				1.0778	5.142	0.00		0.000		NO	2735		12.7	2738
229	3rd Function Penta-PCBs				1.3157	5.142	0.00		0.000		NO	4062		12.7	4100
230	4th Function Penta-PCBs				1.0735	5.142	0.00		0.000		NO	260.5		2.58	260.5

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	98 PCB-155	37.07	37.07	3.903e1	6.342e1	1.240	0.62	YES	0.35672	0.00000
2	99 PCB-150	38.36	38.40	2.435e2	2.453e2	1.240	0.99	YES	2.1443	0.00000
3	100 PCB-152	38.86	38.88	1.867e2	1.415e2	1.240	1.32	NO	1.4607	1.4607
4	102 PCB-136	39.66	39.66	1.262e4	9.484e3	1.240	1.35	NO	115.35	115.35
5	103 PCB-148	39.76	39.77	2.811e2	2.781e2	1.240	1.01	YES	3.1883	0.00000
6	104 PCB-154	40.28	40.29	1.790e3	1.349e3	1.240	1.33	NO	18.040	18.040
7	105 PCB-151	40.95	40.95	1.685e4	1.320e4	1.240	1.28	NO	201.76	201.76
8	106 PCB-135	41.17	41.17	9.731e3	7.462e3	1.240	1.30	NO	98.440	98.440
9	107 PCB-144	41.28	41.28	3.021e3	2.621e3	1.240	1.15	NO	37.765	37.765



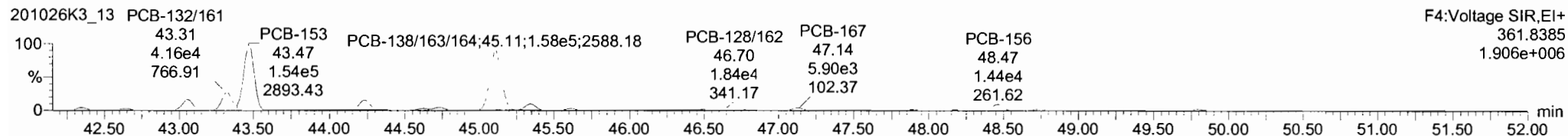
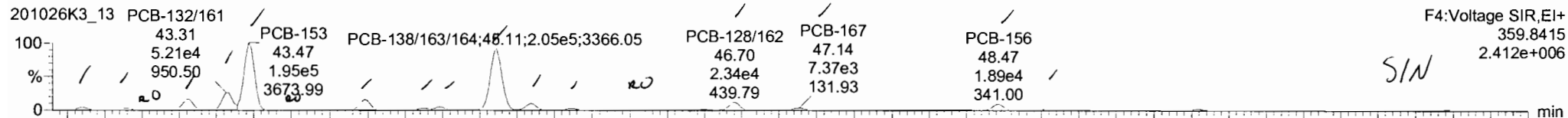


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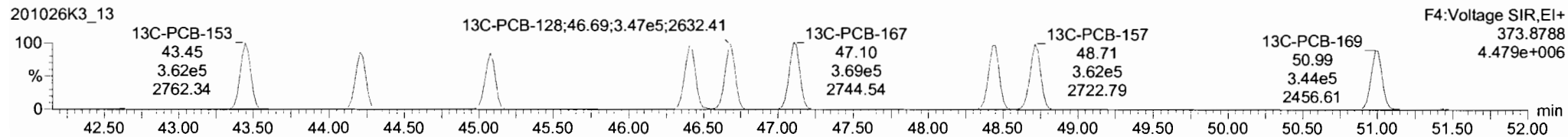
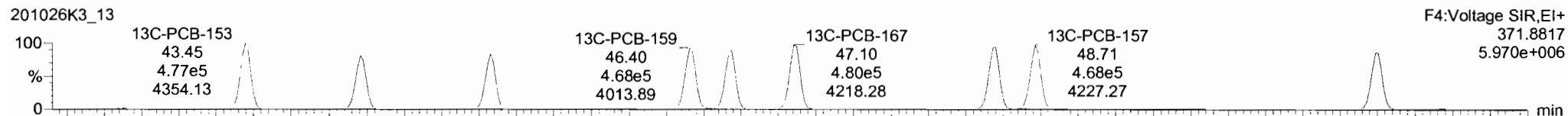
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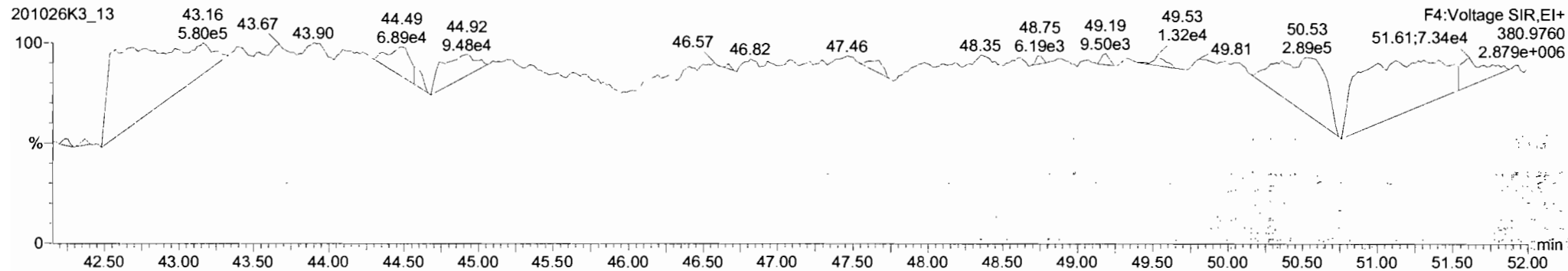
**PCB-134/143**



**13C-PCB-153**

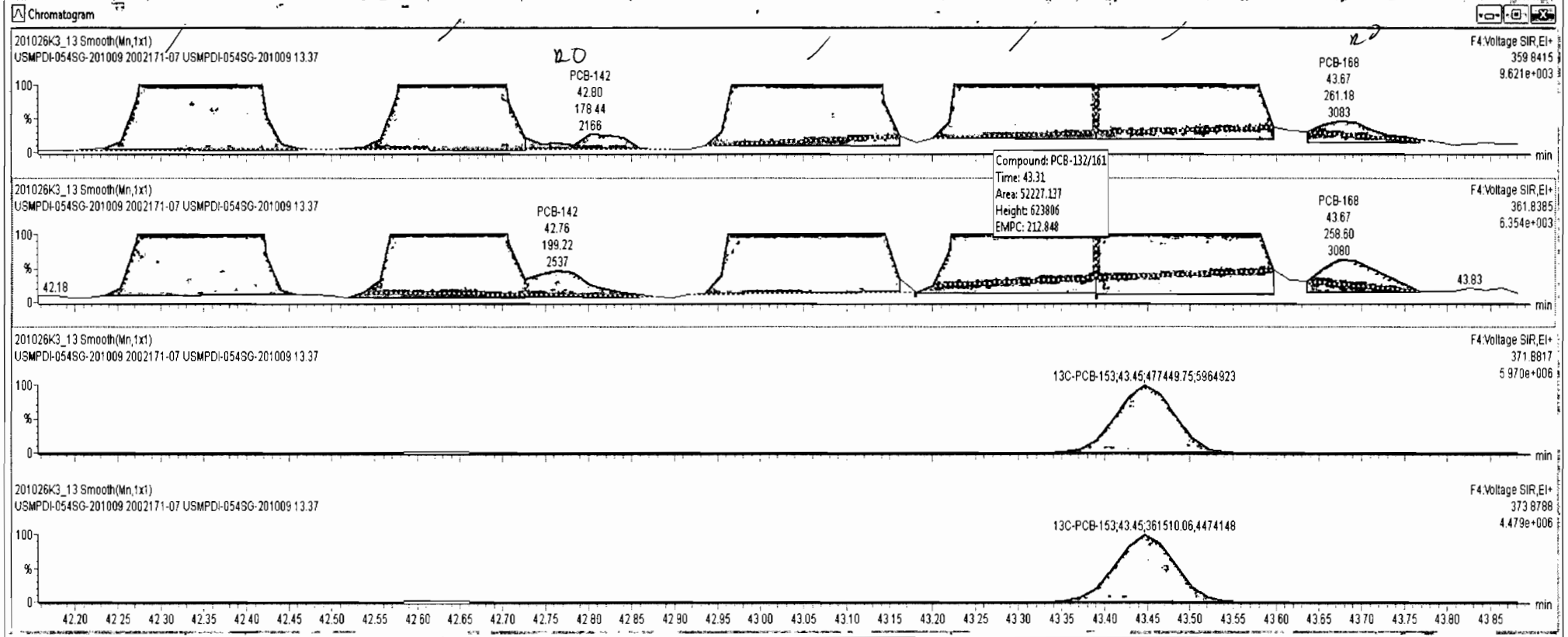


**PFK4b**



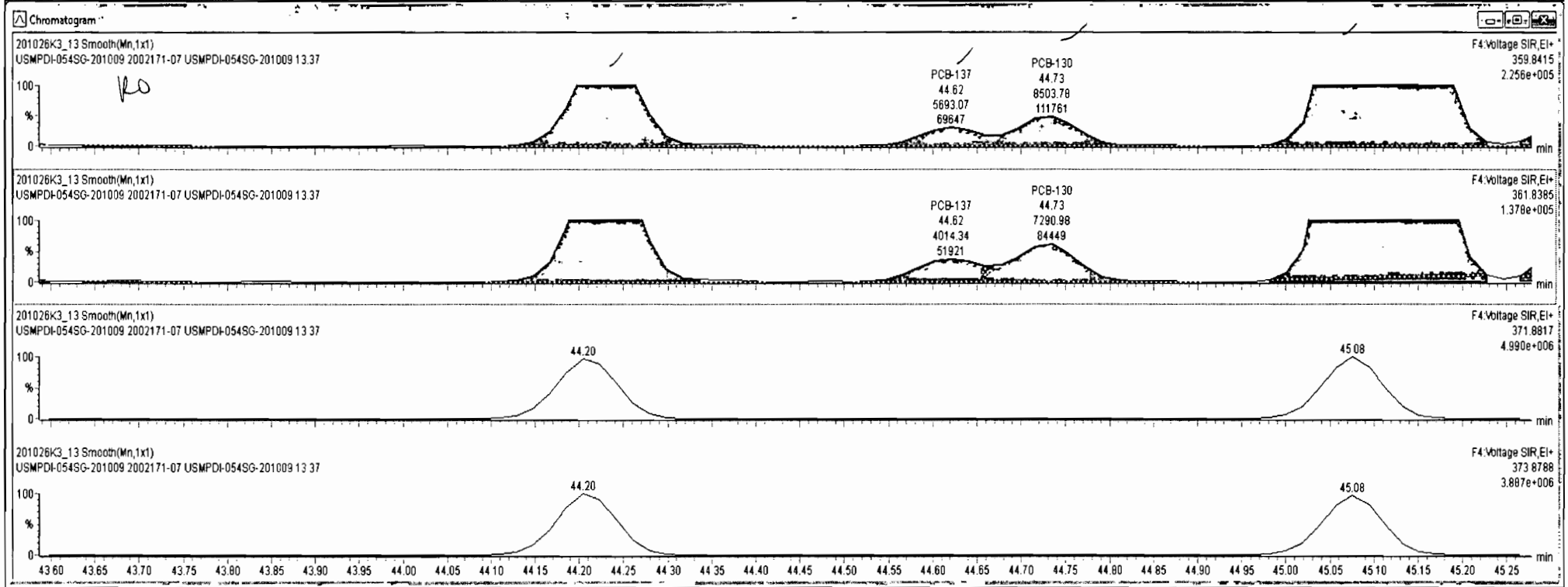
#	Name	ReSp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1936		8.82	1966
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	348.2
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.33	42.35	7.724e3	6.112e3	1.240	1.26	NO	42.257	42.257
2	112 PCB-131/133	42.65	42.65	5.302e3	4.094e3	1.240	1.29	NO	26.537	26.537
3	113 PCB-142	42.81	42.80	1.784e2	1.992e2	1.240	0.90	YES	0.99058	0.00000
4	114 PCB-146/165	43.05	43.05	3.279e4	2.576e4	1.240	1.27	NO	133.50	133.50
5	115 PCB-132/161	43.29	43.31	5.223e4	4.181e4	1.240	1.25	NO	212.85	212.85
6	116 PCB-153	43.46	43.47	1.956e5	1.539e5	1.240	1.27	NO	756.71	756.71
7	117 PCB-168	43.69	43.67	2.612e2	2.586e2	1.240	1.01	YES	1.0152	0.00000
8	118 PCB-141	44.22	44.22	3.116e4	2.471e4	1.240	1.26	NO	151.47	151.47
9	119 PCB-137	44.62	44.62	5.693e3	4.014e3	1.240	1.42	NO	24.331	24.331



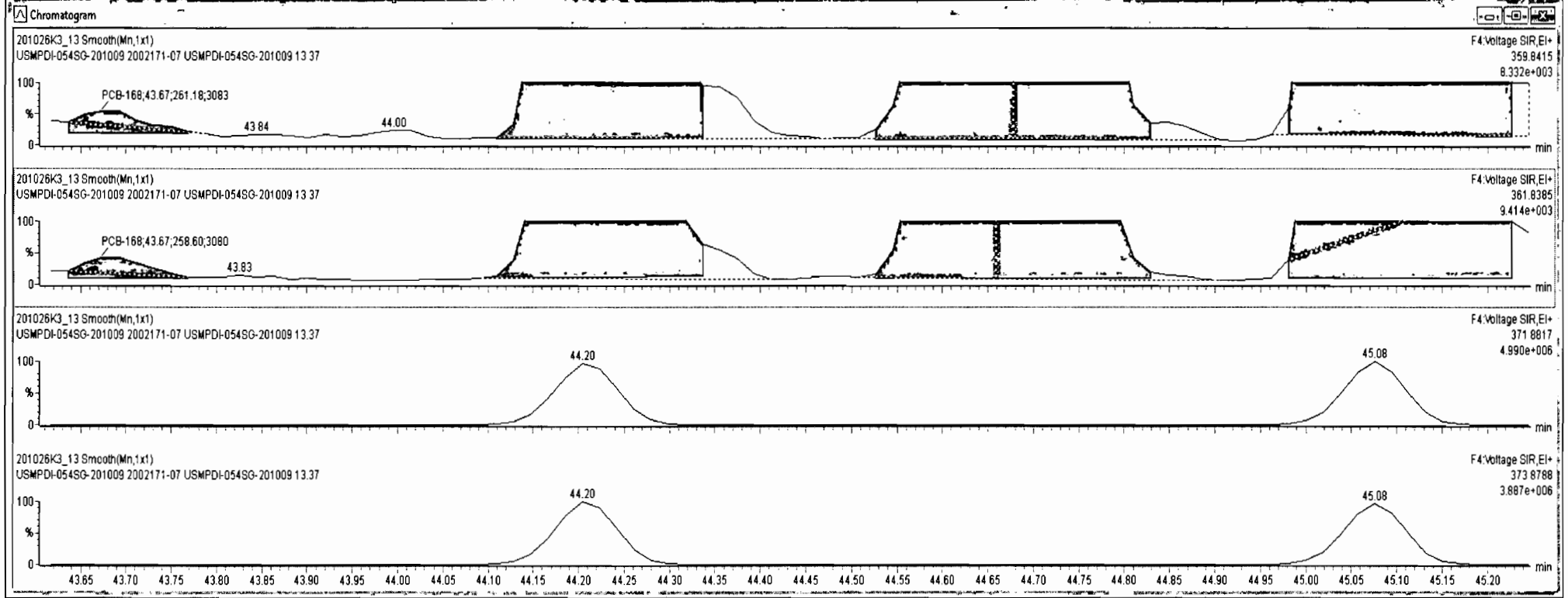
#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				-1.0316	5.142	0.00		0.000		NO	2473		9.81	2477
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1936		8.82	1968
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	348.2
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	112 PCB-131/133	42.85	42.65	5.302e3	4.094e3	1.240	1.29	NO	26.537	26.537
2	113 PCB-142	42.81	42.80	1.784e2	1.992e2	1.240	0.90	YES	0.99058	0.00000
3	114 PCB-146/165	43.05	43.05	3.279e4	2.578e4	1.240	1.27	NO	133.50	133.50
4	115 PCB-132/161	43.29	43.31	5.223e4	4.181e4	1.240	1.25	NO	212.85	212.85
5	116 PCB-153	43.46	43.47	1.956e5	1.539e5	1.240	1.27	NO	756.71	756.71
6	117 PCB-168	43.69	43.67	2.612e2	2.586e2	1.240	1.01	YES	1.0152	0.00000
7	118 PCB-141	44.22	44.22	3.116e4	2.471e4	1.240	1.26	NO	151.47	151.47
8	119 PCB-137	44.62	44.62	5.693e3	4.014e3	1.240	1.42	NO	24.331	24.331
9	120 PCB-130	44.71	44.73	8.504e3	7.291e3	1.240	1.17	NO	49.652	49.652



#	Name	Resp	RA	nly	RF	%Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2473		9.81	2477
233	Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1936		8.82	1966
234	4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	348.2
235	5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	Total PCBs														

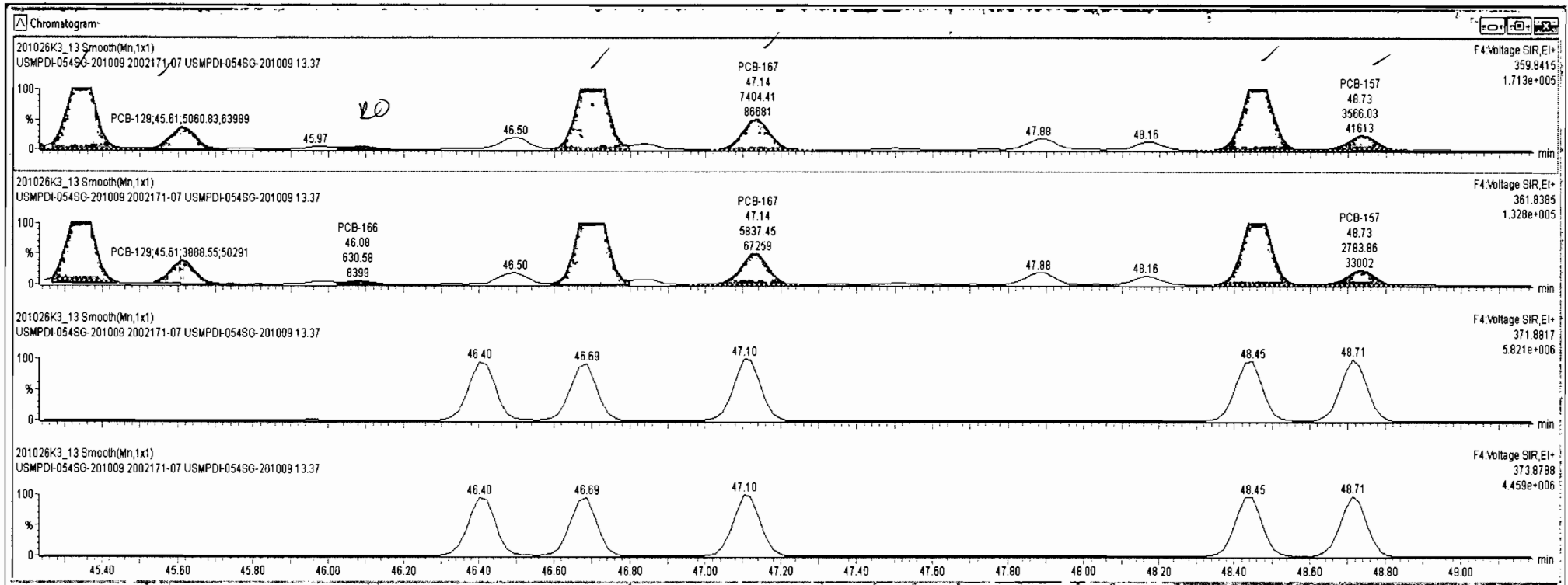
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	112 PCB-131/133	42.65	42.65	5.302e3	4.094e3	1.240	1.29	NO	26.537	26.537
2	113 PCB-142	42.81	42.80	1.784e2	1.992e2	1.240	0.90	YES	0.99058	0.00000
3	114 PCB-146/165	43.05	43.05	3.279e4	2.576e4	1.240	1.27	NO	133.50	133.50
4	115 PCB-132/161	43.29	43.31	5.223e4	4.181e4	1.240	1.25	NO	212.85	212.85
5	116 PCB-153	43.46	43.47	1.956e5	1.539e5	1.240	1.27	NO	756.71	756.71
6	117 PCB-168	43.69	43.67	2.612e2	2.586e2	1.240	1.01	YES	1.0152	0.00000
7	118 PCB-141	44.22	44.22	3.116e4	2.471e4	1.240	1.26	NO	151.47	151.47
8	119 PCB-137	44.62	44.62	5.893e3	4.014e3	1.240	1.42	NO	24.331	24.331
9	120 PCB-130	44.71	44.73	8.504e3	7.291e3	1.240	1.17	NO	49.652	49.652



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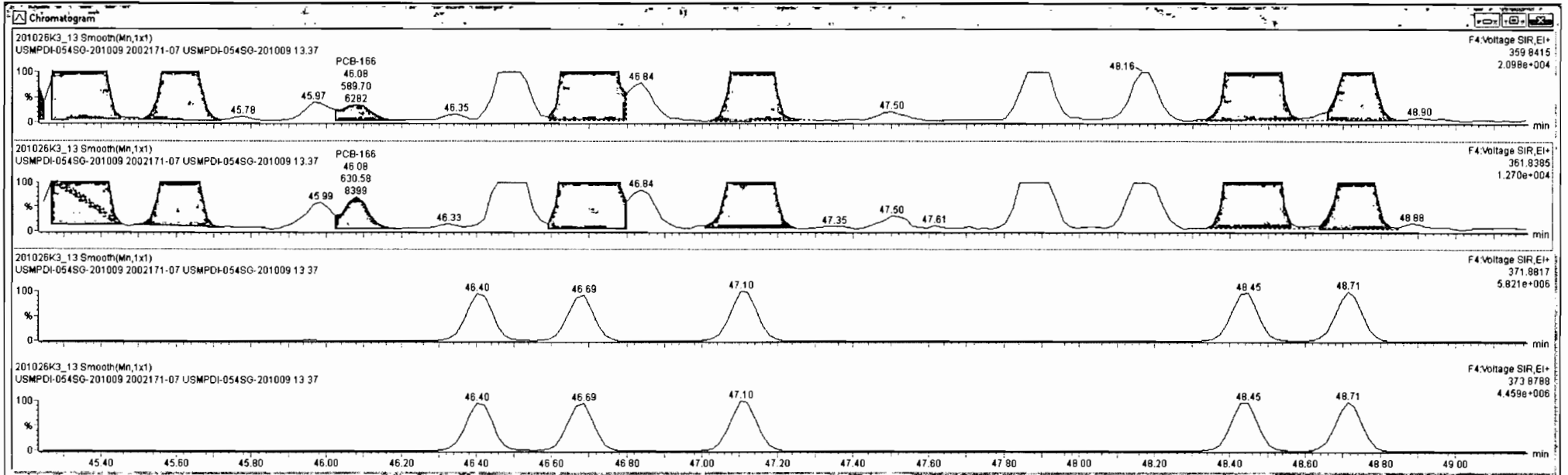
#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2514		10.4	2518
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1936		8.82	1966
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	348.2
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	111 PCB-134/143	42.33	42.35	7.746e3	6.173e3	1.240	1.25	NO	42.512	42.512
2	112 PCB-131/133	42.65	42.65	5.302e3	4.094e3	1.240	1.29	NO	26.537	26.537
3	113 PCB-142	42.81	42.80	1.784e2	1.992e2	1.240	0.90	YES	0.99058	0.00000
4	114 PCB-146/165	43.05	43.05	3.279e4	2.576e4	1.240	1.27	NO	133.50	133.50
5	115 PCB-132/161	43.29	43.31	5.223e4	4.181e4	1.240	1.25	NO	212.85	212.85
6	116 PCB-153	43.46	43.47	1.956e5	1.539e5	1.240	1.27	NO	756.71	756.71
7	117 PCB-168	43.69	43.67	2.138e2	2.586e2	1.240	0.83	YES	0.83122	0.00000
8	118 PCB-141	44.22	44.22	3.153e4	2.500e4	1.240	1.26	NO	153.24	153.24
9	119 PCB-137	44.62	44.62	5.693e3	4.012e3	1.240	1.42	NO	24.326	24.326



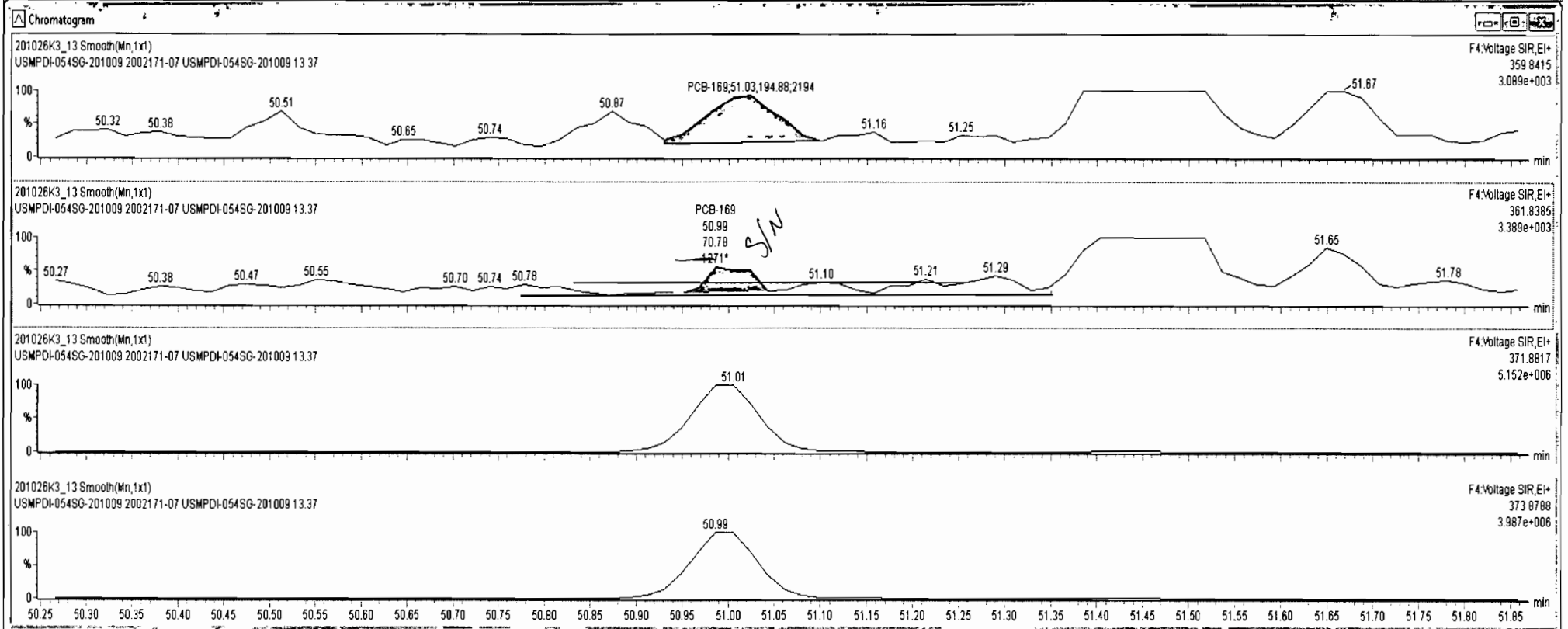
#	Name	Resp	RA	n/y	RRT	wAval	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2514		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1936		8.82	1966
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	346.2
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	111 PCB-134/143	42.33	42.35	7.746e3	6.173e3	1.240	1.25	NO	42.512	42.512
2	112 PCB-131/133	42.65	42.65	5.302e3	4.094e3	1.240	1.29	NO	26.537	26.537
3	113 PCB-142	42.81	42.80	1.784e2	1.992e2	1.240	0.90	YES	0.99058	0.00000
4	114 PCB-146/165	43.05	43.05	3.279e4	2.576e4	1.240	1.27	NO	133.50	133.50
5	115 PCB-132/161	43.29	43.31	5.223e4	4.181e4	1.240	1.25	NO	212.85	212.85
6	116 PCB-153	43.46	43.47	1.956e5	1.539e5	1.240	1.27	NO	756.71	756.71
7	117 PCB-168	43.69	43.67	2.138e2	2.586e2	1.240	0.83	YES	0.83122	0.00000
8	118 PCB-141	44.22	44.22	3.153e4	2.500e4	1.240	1.26	NO	153.24	153.24
9	119 PCB-137	44.62	44.62	5.683e3	4.012e3	1.240	1.42	NO	24.326	24.326



#	Name	Resp	RA	n/y	RF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2514		10.4	2518
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1936		8.82	1966
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	348.2
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
11	121 PCB-138/163/164	45.11	45.11	2.053e5	1.584e5	1.240	1.30	NO	790.43	790.43
12	122 PCB-158/160	45.38	45.34	1.889e4	1.487e4	1.240	1.27	NO	75.955	75.955
13	123 PCB-129	45.61	45.61	5.061e3	3.889e3	1.240	1.30	NO	28.809	28.809
14	124 PCB-166	46.08	46.08	5.897e2	6.306e2	1.240	0.94	YES	2.1862	0.00000
15	126 PCB-128/162	46.71	46.70	2.341e4	1.842e4	1.240	1.27	NO	108.13	108.13
16	127 PCB-167	47.12	47.14	7.404e3	5.837e3	1.240	1.27	NO	27.358	27.358
17	128 PCB-156	48.47	48.47	1.893e4	1.435e4	1.240	1.32	NO	68.906	68.906
18	129 PCB-157	48.73	48.73	3.566e3	2.784e3	1.240	1.28	NO	14.329	14.329
19	130 PCB-169	51.03	51.03	1.949e2	7.740e1	1.240	2.52	YES	0.36940	0.00000



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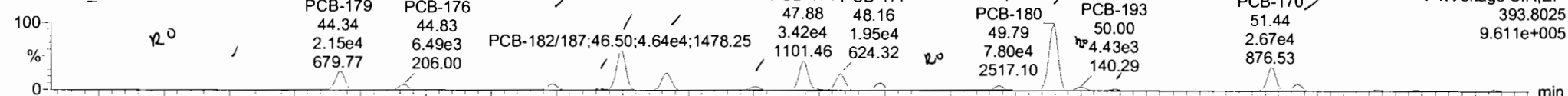
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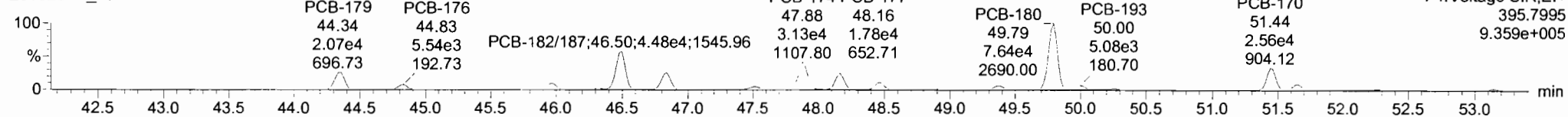
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**PCB-188**

201026K3\_13

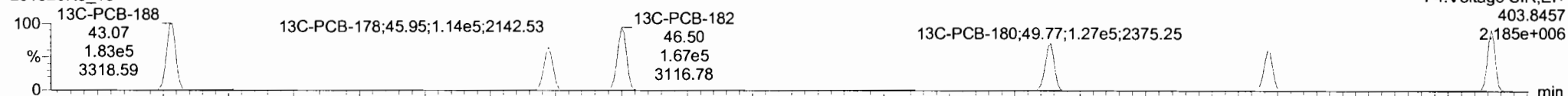


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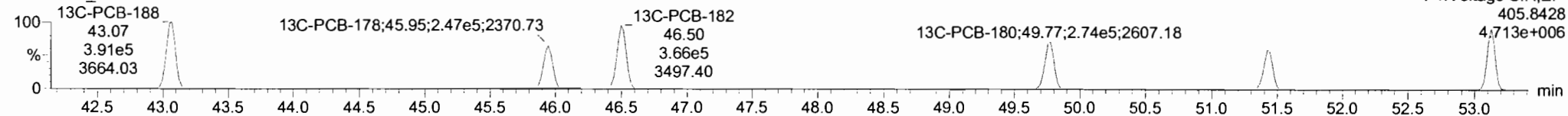


**13C-PCB-188**

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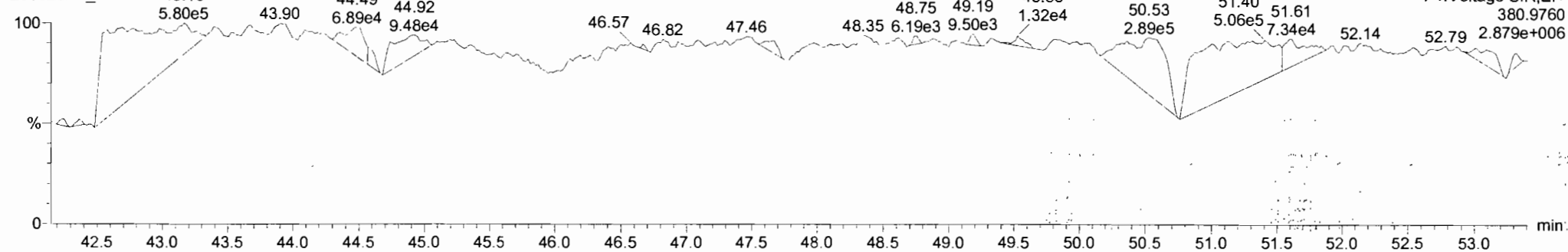


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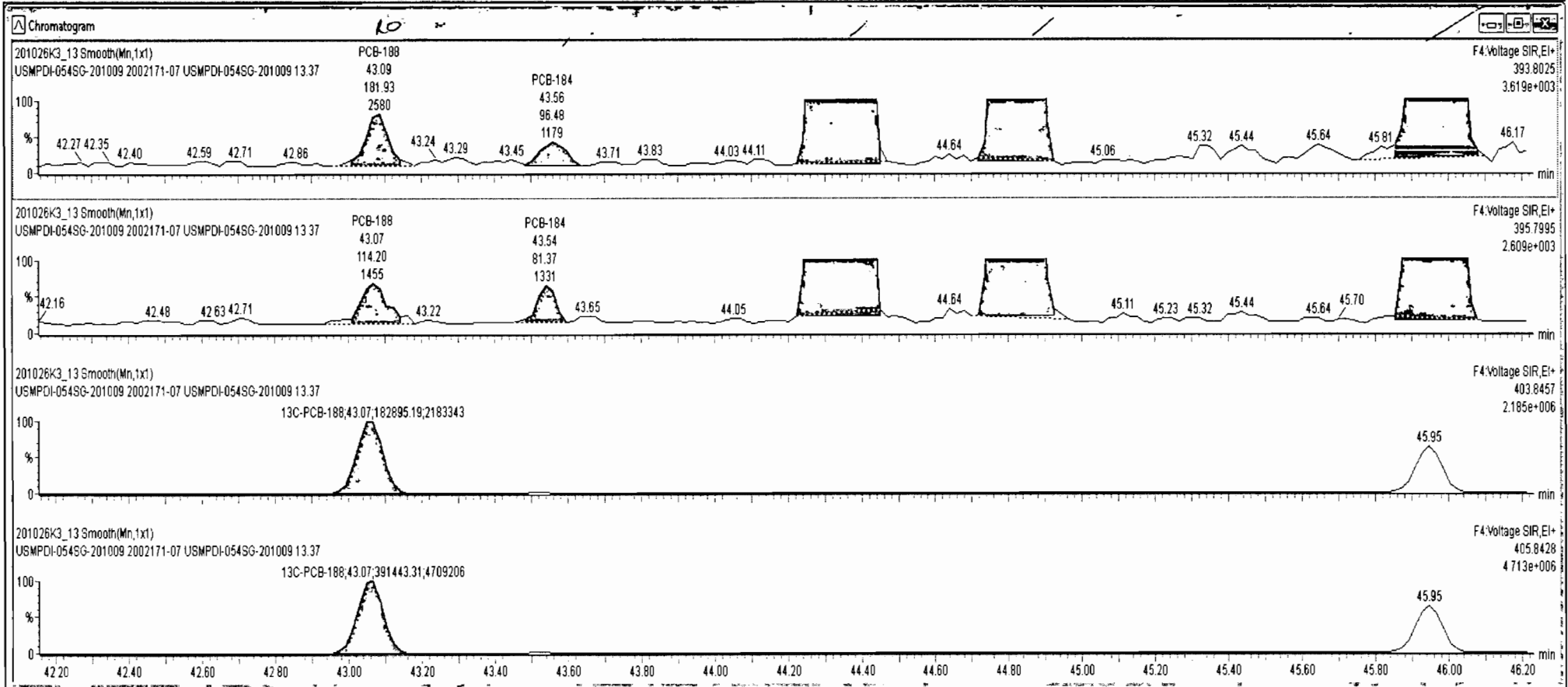
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#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1936		8.82	1966
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	348.2
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

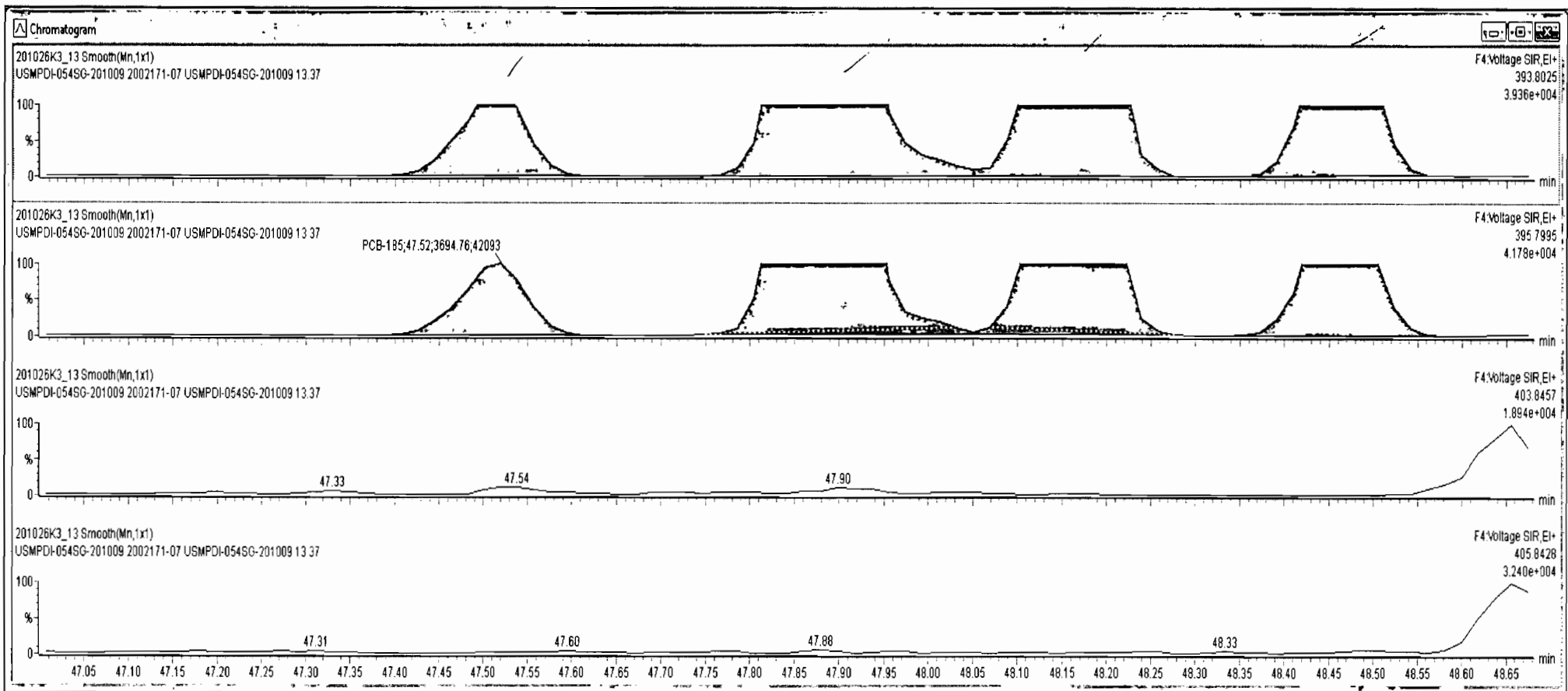
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	131 PCB-188	43.11	43.09	1.819e2	1.142e2	1.050	1.59	YES	0.61465	0.00000
2	132 PCB-184	43.56	43.56	9.648e1	8.137e1	1.050	1.19	NO	0.48892	0.48892
3	133 PCB-179	44.36	44.34	2.148e4	2.075e4	1.050	1.04	NO	110.16	110.16
4	134 PCB-176	44.85	44.83	6.503e3	5.521e3	1.050	1.18	NO	31.111	31.111
5	136 PCB-178	45.99	45.97	6.811e3	7.270e3	1.050	0.94	NO	50.545	50.545
6	137 PCB-175	46.35	46.33	1.349e3	1.486e3	1.050	0.91	NO	10.040	10.040
7	138 PCB-182/187	46.52	46.50	4.645e4	4.475e4	1.050	1.04	NO	289.64	289.64
8	139 PCB-183	46.84	46.84	2.037e4	1.962e4	1.050	1.04	NO	132.38	132.38
9	140 PCB-185	47.51	47.52	4.122e3	3.695e3	1.050	1.12	NO	26.950	26.950



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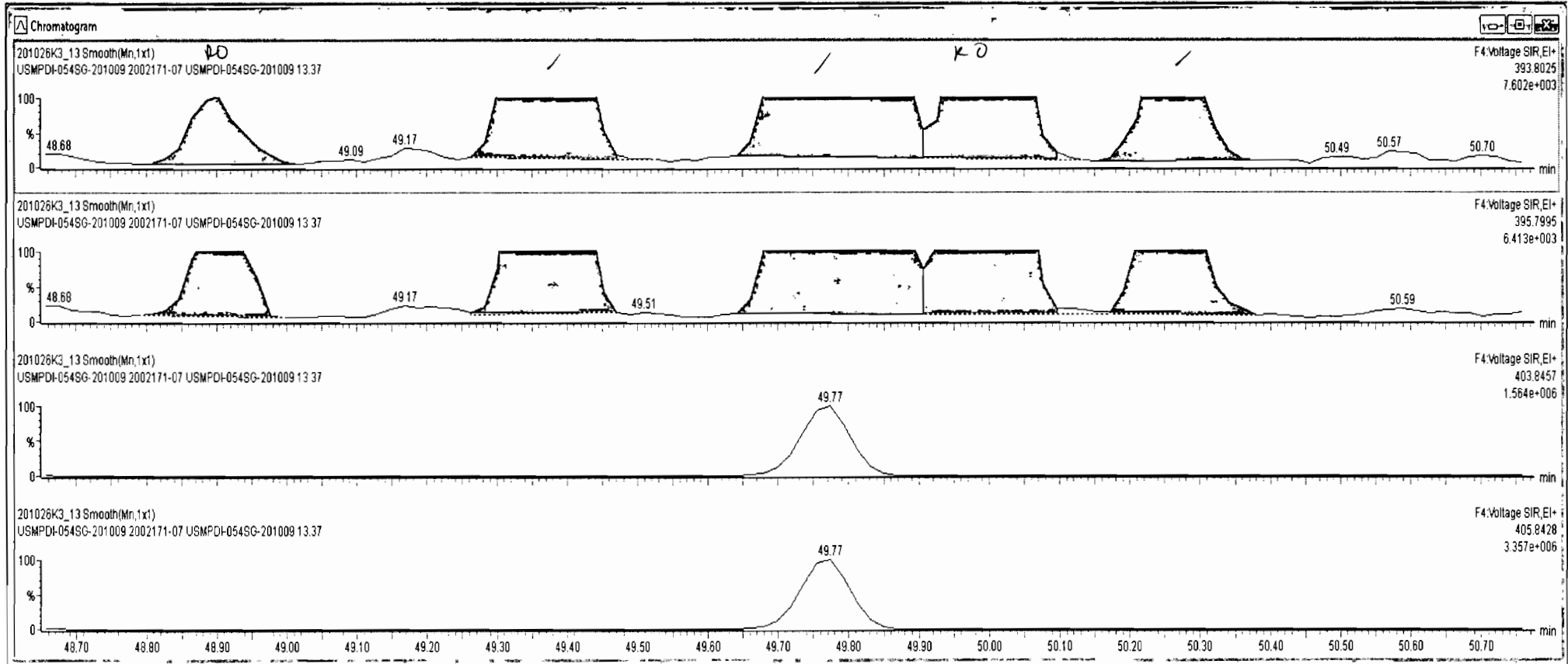
#	Name	Resp	RA	nly	RRF	wAval	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1940		8.82	1971
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	348.2
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	131 PCB-188	43.11	43.09	1.819e2	1.142e2	1.050	1.59	YES	0.61465	0.00000
2	132 PCB-184	43.56	43.56	9.649e1	8.137e1	1.050	1.19	NO	0.48892	0.48892
3	133 PCB-179	44.36	44.34	2.149e4	2.075e4	1.050	1.04	NO	110.16	110.16
4	134 PCB-176	44.85	44.83	6.503e3	5.521e3	1.050	1.18	NO	31.111	31.111
5	136 PCB-178	45.99	45.97	6.852e3	7.270e3	1.050	0.95	NO	50.835	50.835
6	137 PCB-175	46.35	46.33	1.349e3	1.486e3	1.050	0.91	NO	10.040	10.040
7	138 PCB-182/187	46.52	46.50	4.645e4	4.475e4	1.050	1.04	NO	289.64	289.64
8	139 PCB-183	46.84	46.84	2.037e4	1.962e4	1.050	1.04	NO	132.38	132.38
9	140 PCB-185	47.51	47.52	4.122e3	3.695e3	1.050	1.12	NO	26.950	26.950



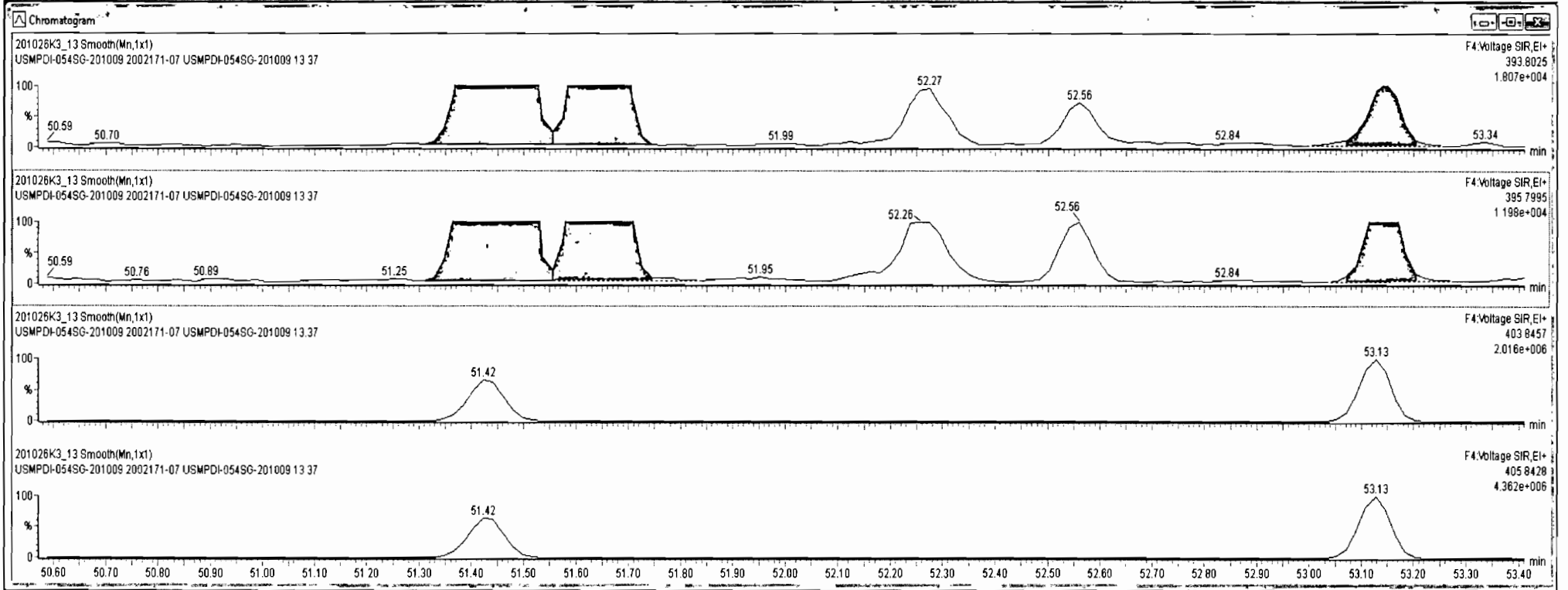
#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1940		8.82	1970
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	348.2
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-188	43.11	43.09	1.919e2	1.142e2	1.050	1.59	YES	0.61465	0.00000
2	132 PCB-184	43.56	43.56	9.648e1	8.137e1	1.050	1.19	NO	0.48892	0.48892
3	133 PCB-179	44.36	44.34	2.149e4	2.075e4	1.050	1.04	NO	110.16	110.16
4	134 PCB-176	44.85	44.83	6.503e3	5.521e3	1.050	1.18	NO	31.111	31.111
5	136 PCB-178	45.98	45.97	6.892e3	7.270e3	1.050	0.95	NO	50.835	50.835
6	137 PCB-175	46.35	46.33	1.349e3	1.486e3	1.050	0.91	NO	10.040	10.040
7	138 PCB-182/187	46.52	46.50	4.645e4	4.475e4	1.050	1.04	NO	289.64	289.64
8	139 PCB-183	46.84	46.84	2.037e4	1.962e4	1.050	1.04	NO	132.38	132.38
9	140 PCB-185	47.51	47.52	4.122e3	3.695e3	1.050	1.12	NO	26.950	26.950



#	Name	Resp	RA	n/y	R/R	w/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1939		8.82	1970
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	340.1		2.83	348.2
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	131 PCB-188	43.11	43.09	1.819e2	1.142e2	1.050	1.59	YES	0.61465	0.00000
2	132 PCB-184	43.56	43.56	9.648e1	8.137e1	1.050	1.19	NO	0.48892	0.48892
3	133 PCB-179	44.36	44.34	2.148e4	2.075e4	1.050	1.04	NO	110.16	110.16
4	134 PCB-176	44.85	44.83	6.503e3	5.521e3	1.050	1.18	NO	31.111	31.111
5	136 PCB-178	45.99	45.97	6.892e3	7.270e3	1.050	0.95	NO	50.835	50.835
6	137 PCB-175	46.35	46.33	1.349e3	1.486e3	1.050	0.91	NO	10.040	10.040
7	138 PCB-182/187	46.52	46.50	4.645e4	4.475e4	1.050	1.04	NO	289.64	289.64
8	139 PCB-183	46.84	46.84	2.037e4	1.962e4	1.050	1.04	NO	132.38	132.38
9	140 PCB-185	47.51	47.52	4.122e3	3.695e3	1.050	1.12	NO	26.950	26.950

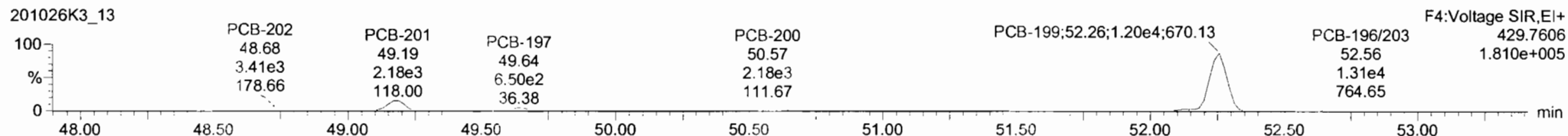
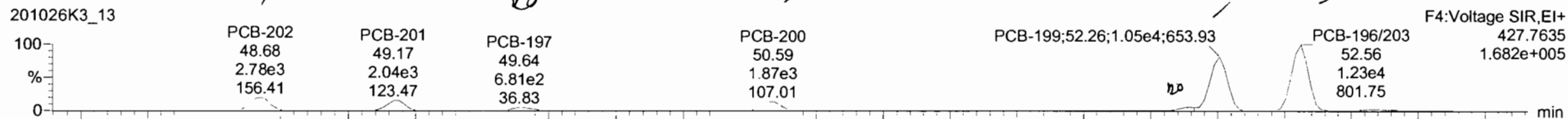


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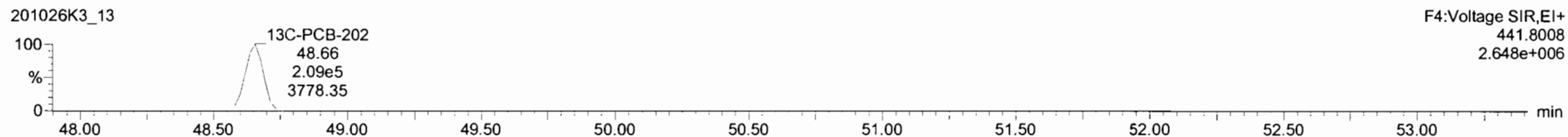
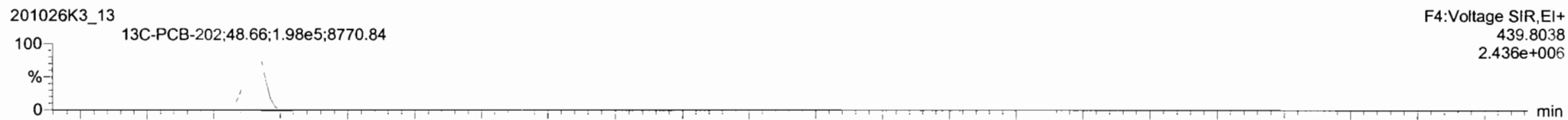
Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time  
 Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

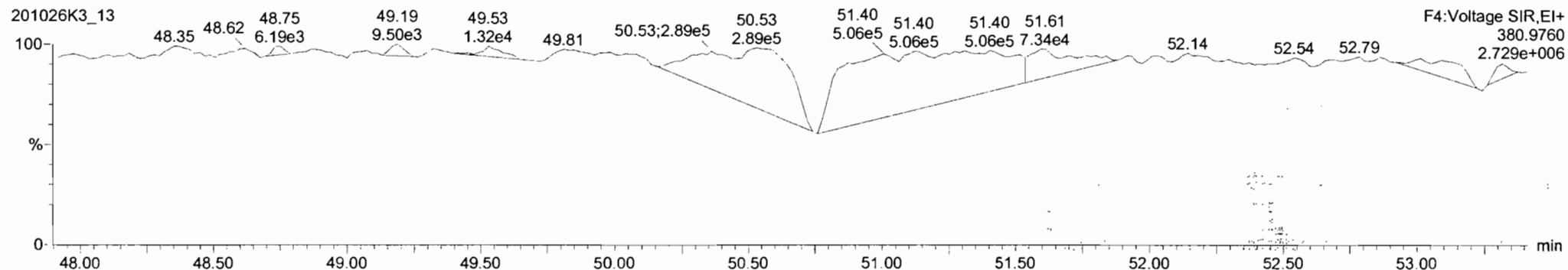
**PCB-202**



**13C-PCB-202**

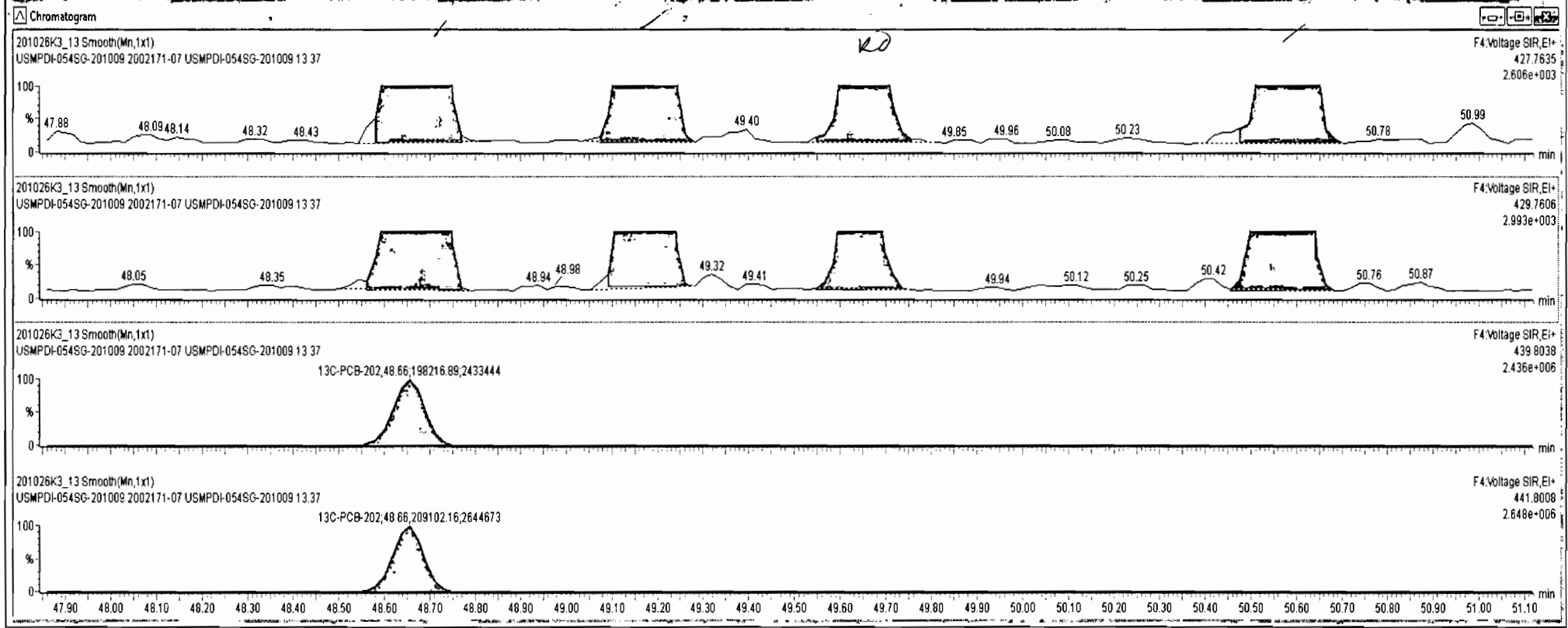


**PFK4d**



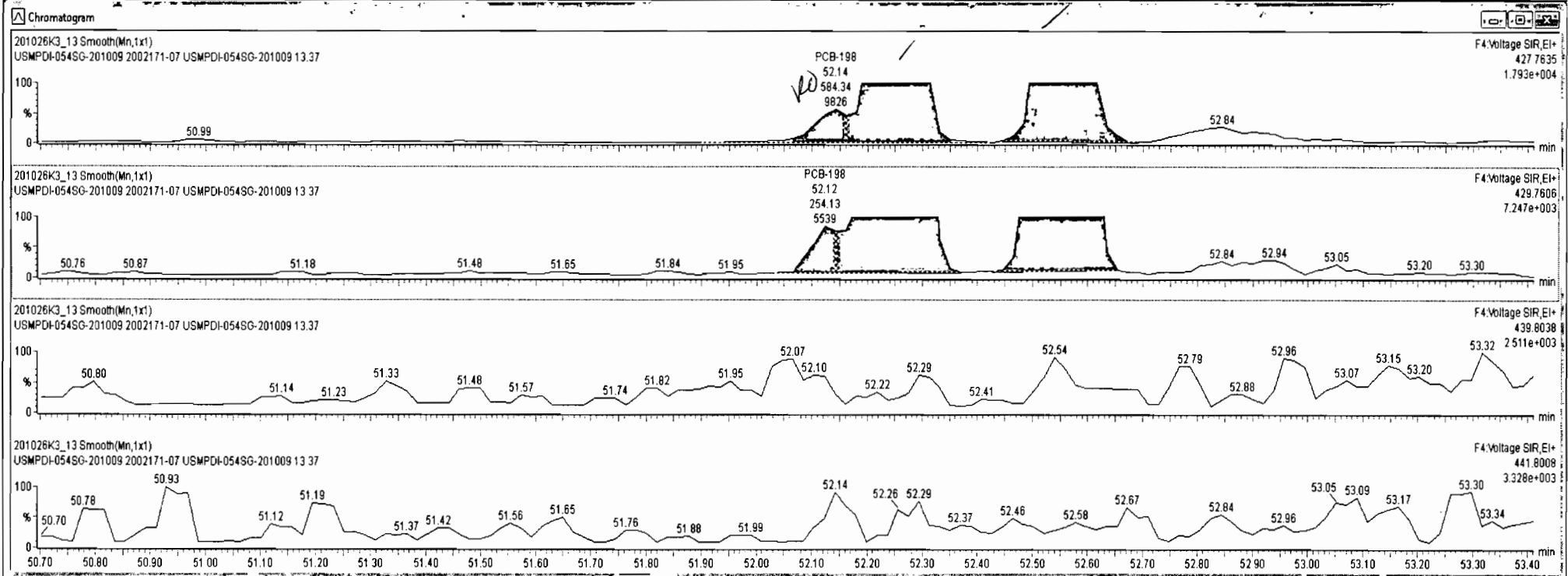
#	Name	Resp	RA	n/y	RF	w/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1939		8.82	1970
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	339.7		2.83	347.9
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	154 PCB-202	48.69	48.68	2.758e3	3.396e3	0.890	0.81	NO	25.148	25.148
2	155 PCB-201	49.17	49.17	2.039e3	2.152e3	0.890	0.95	NO	19.006	19.006
3	157 PCB-197	49.63	49.64	6.762e2	6.581e2	0.890	1.03	YES	5.2427	0.00000
4	158 PCB-200	50.57	50.59	1.839e3	2.186e3	0.890	0.84	NO	17.955	17.955
5	159 PCB-198	52.12	52.14	6.418e2	2.580e2	0.890	2.49	YES	2.9325	0.00000
6	160 PCB-199	52.26	52.26	1.054e4	1.201e4	0.890	0.88	NO	133.03	133.03
7	161 PCB-196/203	52.55	52.56	1.226e4	1.312e4	0.890	0.93	NO	144.58	144.58



#	Name	Resp	RA	nly	RF	wVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1939		8.82	1970
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	339.8		2.83	347.9
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	86.61		1.43	95.12
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	154 PCB-202	48.69	48.68	2.758e3	3.396e3	0.890	0.81	NO	25.148	25.148
2	155 PCB-201	49.17	49.17	2.039e3	2.152e3	0.890	0.95	NO	19.006	19.006
3	157 PCB-197	49.63	49.64	6.762e2	6.581e2	0.890	1.03	YES	5.2427	0.00000
4	158 PCB-200	50.57	50.59	1.839e3	2.186e3	0.890	0.84	NO	17.955	17.955
5	159 PCB-198	52.12	52.14	5.843e2	2.541e2	0.890	2.30	YES	2.8887	0.00000
6	160 PCB-199	52.26	52.26	1.051e4	1.202e4	0.890	0.87	NO	132.88	132.88
7	161 PCB-196/203	52.55	52.56	1.229e4	1.312e4	0.890	0.94	NO	144.76	144.76

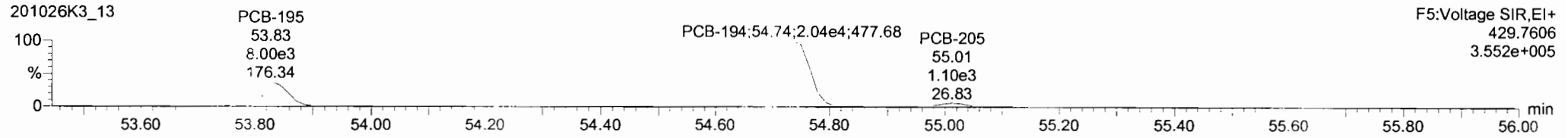
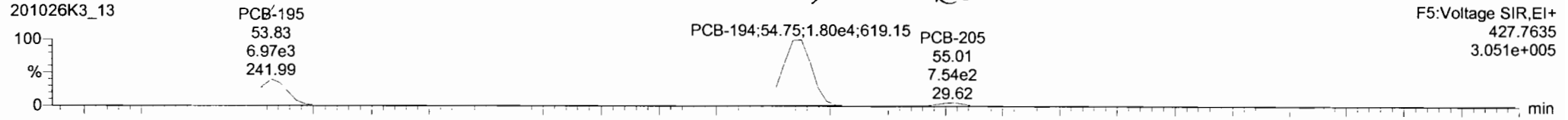


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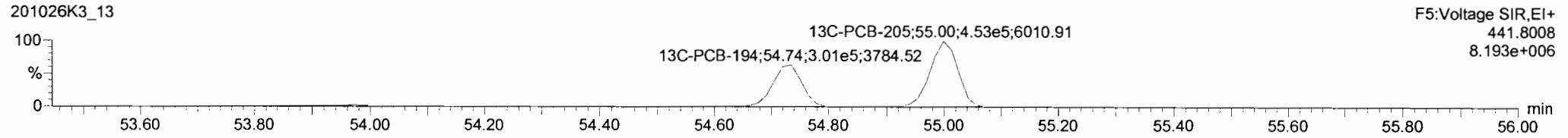
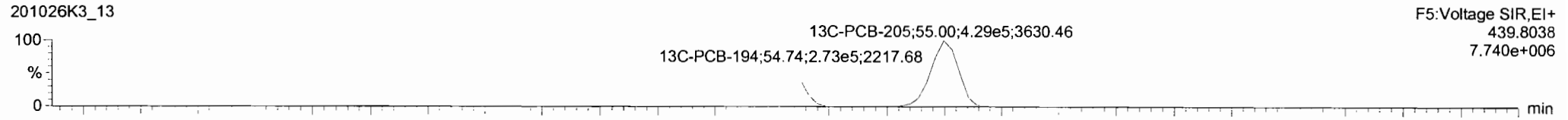
Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

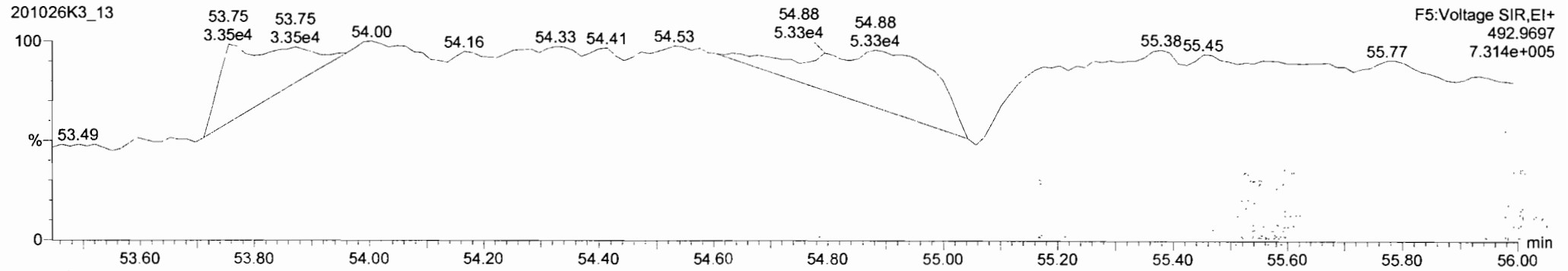
**PCB-195**



**13C-PCB-194**



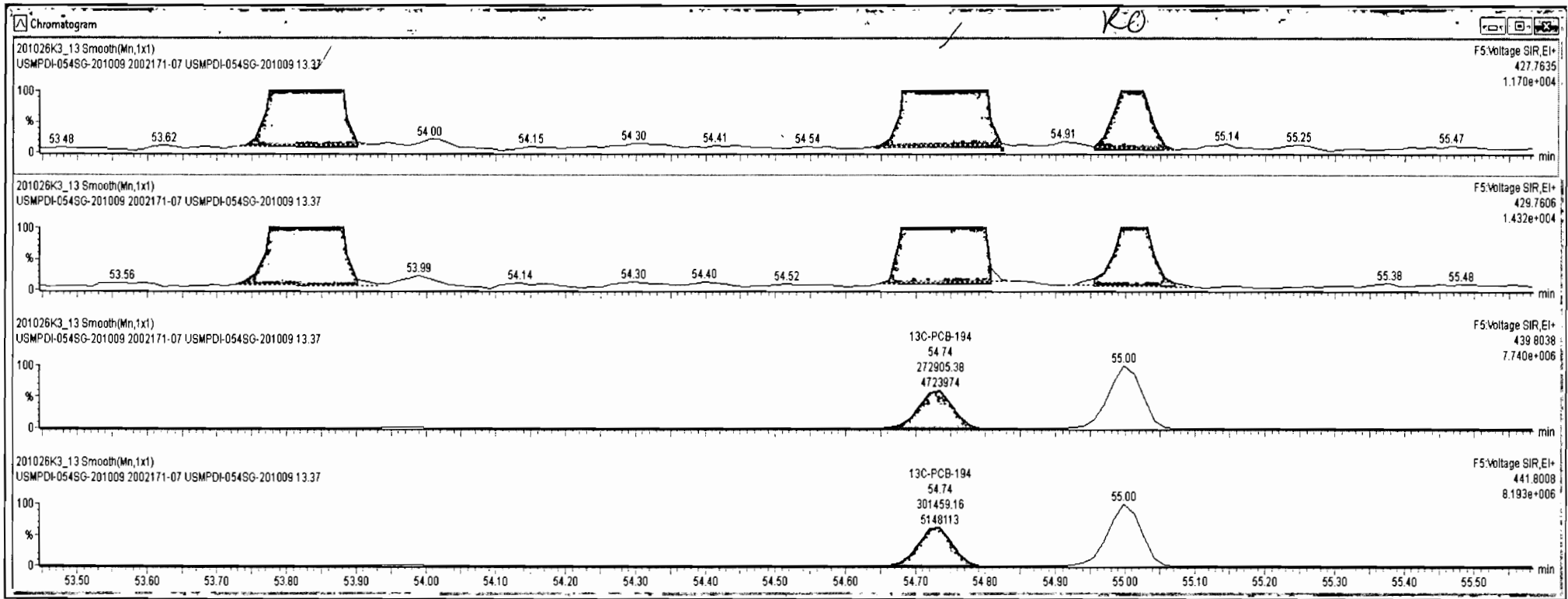
**PFK5a**





#	Name	Resp	RA	nY	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1939		8.82	1970
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	339.8		2.83	347.9
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.8		1.27	170.0
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	95.74		1.43	95.74
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>o</sup> Ratio (Pred)	RA	nY	EMPC	Conc.
1	162 PCB-195	53.84	53.83	7.018e3	7.981e3	0.890	0.88	NO	48.622	48.622
2	163 PCB-194	54.75	54.75	1.813e4	2.042e4	0.890	0.89	NO	116.94	116.94
3	164 PCB-205	55.03	55.01	7.934e2	1.073e3	0.890	0.74	YES	4.4242	0.00000

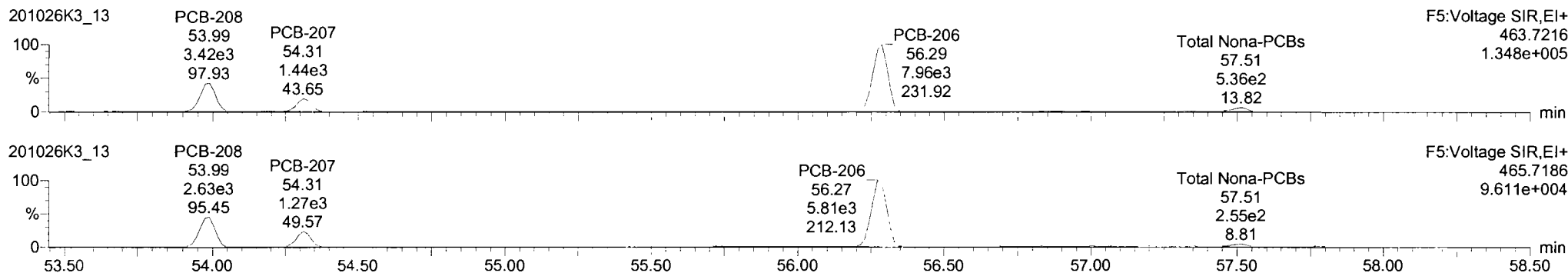


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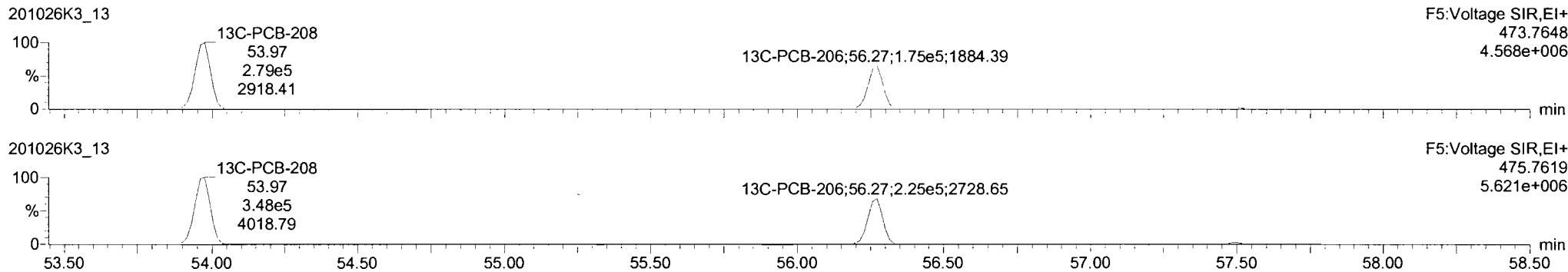
Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time  
 Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

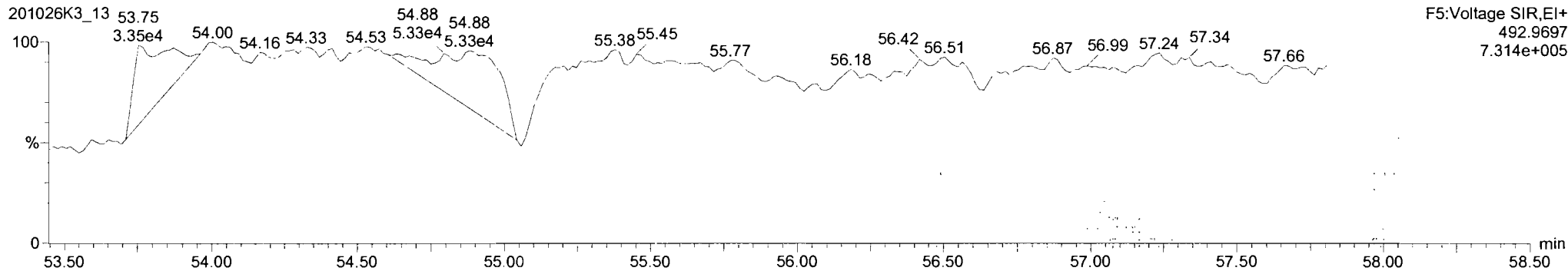
**PCB-208**



**13C-PCB-208**

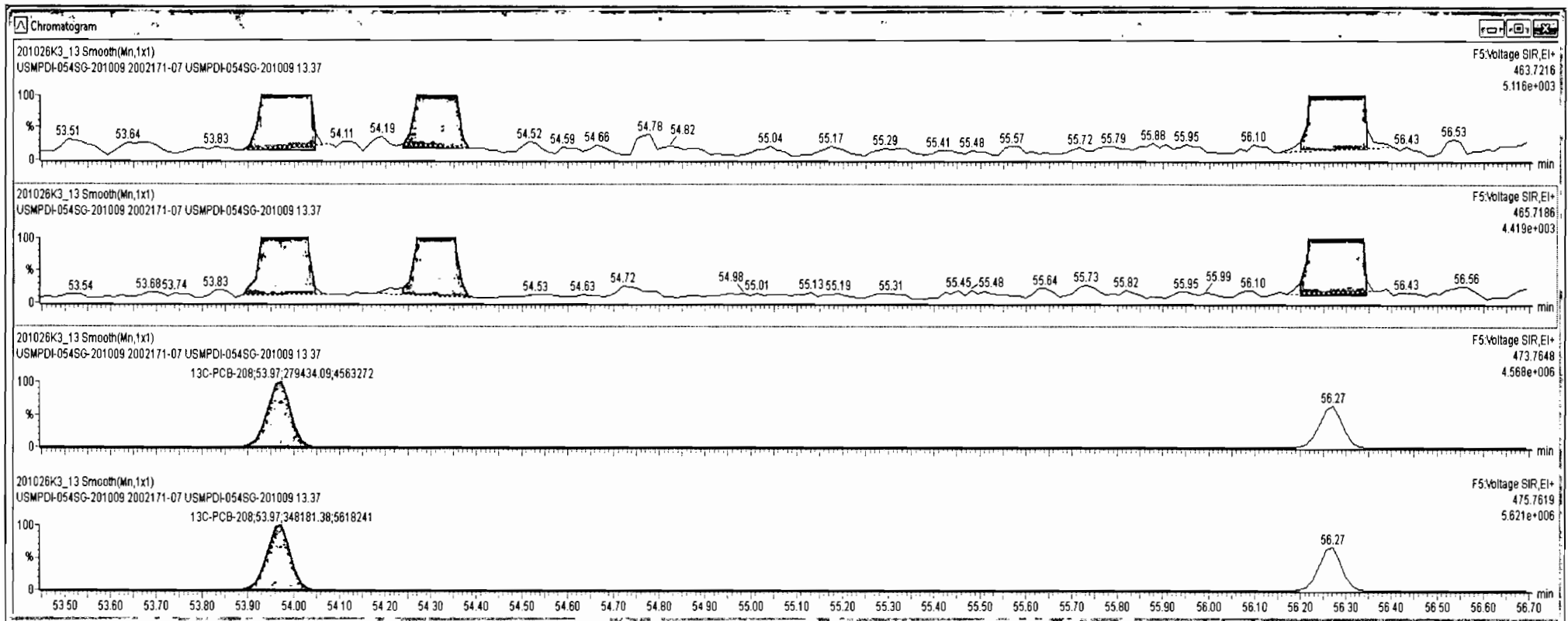


**PFK5**



#	Name	Resp	RA	n/y	RF	WVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0316	5.142	0.00		0.000		NO	2515		10.4	2519
233	233 Total Hepta-PCBs				1.3551	5.142	0.00		0.000		NO	1939		8.82	1970
234	234 4th Function Octa-PCBs				1.0008	5.142	0.00		0.000		NO	339.8		2.83	347.9
235	235 5th Function Octa-PCBs				1.1499	5.142	0.00		0.000		NO	165.1		1.27	169.3
236	236 Total Nona-PCBs				0.9523	5.142	0.00		0.000		NO	95.74		1.43	95.74
237	237 Deca-CB				0.9864	5.142	0.00		0.000		NO	83.47		0.498	83.47
238	238 Total PCBs														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	165 PCB-208	53.99	53.99	3.443e3	2.622e3	1.340	1.31	NO	20.140	20.140
2	166 PCB-207	54.31	54.31	1.464e3	1.255e3	1.340	1.17	NO	9.1960	9.1960
3	167 PCB-206	56.29	56.29	7.919e3	5.823e3	1.340	1.36	NO	66.407	66.407



Dataset: Untitled

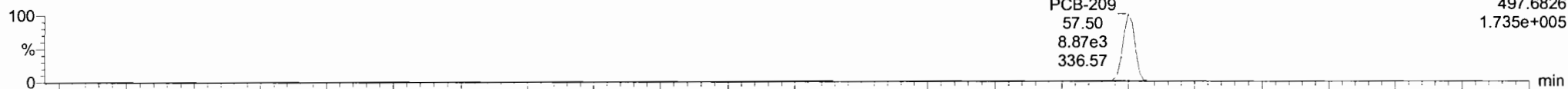
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

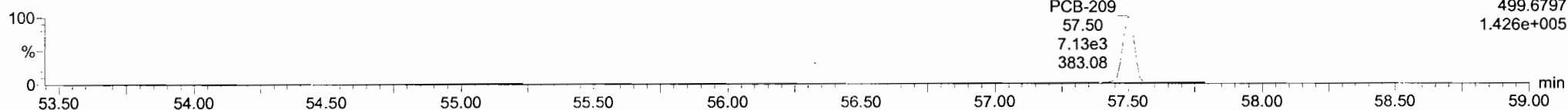
Name: 201026K3\_13, Date: 27-Oct-2020, Time: 23:01:28, ID: 2002171-07 USMPDI-054SG-201009 13.37, Description: USMPDI-054SG-201009

**PCB-209**

201026K3\_13

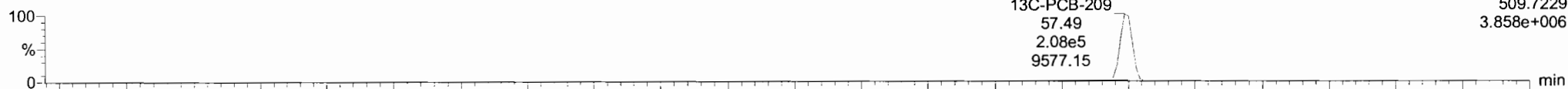


201026K3\_13

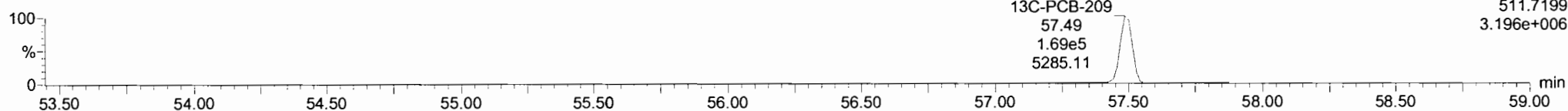


**13C-PCB-209**

201026K3\_13

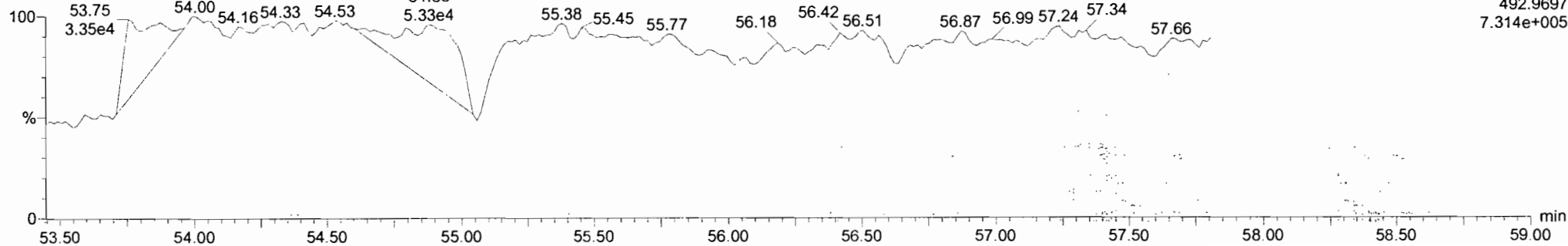


201026K3\_13



**PFK5b**

201026K3\_13



## **CONTINUING CALIBRATION**

# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST201105RL-1

**Reviewed By:** BEB 11/06/2020  
*Initials & Date*

**End Calibration ID:** ST201105R2-1

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

	<u>Beg.</u>	<u>End</u>
<b>Mass resolution <math>\geq</math></b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614    1699    429    1613/1668/8280		
<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>GC Break &lt;20%</b>		<input type="checkbox"/> <u>NA</u>
<b><u>8280 CS1 End Standard:</u></b>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> <u>NA</u>

**Comments:**  
 (A) One mass in end resolution check under 10K at HN 11/06/2020

Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_1.qld

Last Altered: Thursday, November 05, 2020 14:31:38 Pacific Standard Time

Printed: Thursday, November 05, 2020 15:12:17 Pacific Standard Time

HN 11/05/2020  
Geo 11/06/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201105R1\_1, Date: 05-Nov-2020, Time: 11:32:43, ID: ST201105R1\_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	2,3,7,8-TCDD	1.17e5	1.17e6	0.76	NO	0.950	26.23	26.23	NO	1.001	1.001	10.555	106	NO
2	1,2,3,7,8-PeCDD	3.97e5	8.39e5	0.62	NO	0.885	30.91	30.92	NO	1.000	1.001	53.366	107	NO
3	1,2,3,4,7,8-HxCDD	3.23e5	6.23e5	1.26	NO	1.02	34.24	34.24	NO	1.001	1.001	50.948	102	NO
4	1,2,3,6,7,8-HxCDD	3.49e5	7.44e5	1.27	NO	0.915	34.34	34.35	NO	1.000	1.000	51.267	103	NO
5	1,2,3,7,8,9-HxCDD	3.21e5	6.73e5	1.31	NO	0.934	34.62	34.63	NO	1.000	1.001	51.055	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.63e5	1.01	NO	0.870	38.10	38.12	NO	1.000	1.000	50.946	102	NO
7	OCDD	4.45e5	9.92e5	0.88	NO	0.872	41.06	41.07	NO	1.000	1.000	103.02	103	NO
8	2,3,7,8-TCDF	1.22e5	1.53e6	0.75	NO	0.824	25.53	25.55	NO	1.000	1.001	9.7100	97.1	NO
9	1,2,3,7,8-PeCDF	6.27e5	1.27e6	1.55	NO	0.963	29.64	29.65	NO	1.000	1.001	51.483	103	NO
10	2,3,4,7,8-PeCDF	6.26e5	1.16e6	1.56	NO	1.07	30.69	30.72	NO	1.000	1.001	50.338	101	NO
11	1,2,3,4,7,8-HxCDF	3.72e5	7.87e5	1.21	NO	0.953	33.30	33.33	NO	1.000	1.001	49.606	99.2	NO
12	1,2,3,6,7,8-HxCDF	4.23e5	8.37e5	1.21	NO	1.01	33.43	33.46	NO	1.000	1.001	50.145	100	NO
13	2,3,4,6,7,8-HxCDF	3.82e5	7.72e5	1.21	NO	0.991	34.11	34.13	NO	1.000	1.001	49.896	99.8	NO
14	1,2,3,7,8,9-HxCDF	3.17e5	6.63e5	1.24	NO	0.951	35.11	35.12	NO	1.000	1.000	50.252	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.02e5	6.11e5	1.00	NO	0.999	36.69	36.71	NO	1.000	1.001	49.514	99.0	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.57e5	0.99	NO	1.12	38.73	38.74	NO	1.000	1.000	48.972	97.9	NO
17	OCDF	4.65e5	1.06e6	0.87	NO	0.868	41.37	41.37	NO	1.000	1.000	101.20	101	NO
18	13C-2,3,7,8-TCDD	1.17e6	1.04e6	0.79	NO	1.11	26.19	26.20	NO	1.029	1.030	101.37	101	NO
19	13C-1,2,3,7,8-PeCDD	8.39e5	1.04e6	0.63	NO	0.859	30.82	30.90	NO	1.211	1.214	93.882	93.9	NO
20	13C-1,2,3,4,7,8-HxCDD	6.23e5	8.46e5	1.28	NO	0.700	34.20	34.21	NO	1.013	1.014	105.36	105	NO
21	13C-1,2,3,6,7,8-HxCDD	7.44e5	8.46e5	1.29	NO	0.833	34.33	34.33	NO	1.017	1.017	105.61	106	NO
22	13C-1,2,3,7,8,9-HxCDD	6.73e5	8.46e5	1.25	NO	0.762	34.60	34.61	NO	1.025	1.025	104.50	105	NO
23	13C-1,2,3,4,6,7,8-HpCDD	5.63e5	8.46e5	1.05	NO	0.650	38.04	38.10	NO	1.127	1.129	102.54	103	NO
24	13C-OCDD	9.92e5	8.46e5	0.91	NO	0.539	40.97	41.06	NO	1.214	1.217	217.48	109	NO
25	13C-2,3,7,8-TCDF	1.53e6	1.58e6	0.76	NO	0.981	25.53	25.52	NO	1.003	1.003	98.668	98.7	NO
26	13C-1,2,3,7,8-PeCDF	1.27e6	1.58e6	1.61	NO	0.792	29.58	29.63	NO	1.162	1.164	101.42	101	NO
27	13C-2,3,4,7,8-PeCDF	1.16e6	1.58e6	1.62	NO	0.778	30.63	30.69	NO	1.204	1.206	94.995	95.0	NO
28	13C-1,2,3,4,7,8-HxCDF	7.87e5	8.46e5	0.50	NO	0.954	33.30	33.30	NO	0.987	0.987	97.555	97.6	NO
29	13C-1,2,3,6,7,8-HxCDF	8.37e5	8.46e5	0.51	NO	1.01	33.44	33.43	NO	0.991	0.991	98.427	98.4	NO
30	13C-2,3,4,6,7,8-HxCDF	7.72e5	8.46e5	0.51	NO	0.921	34.10	34.10	NO	1.010	1.010	99.152	99.2	NO
31	13C-1,2,3,7,8,9-HxCDF	6.63e5	8.46e5	0.51	NO	0.803	35.10	35.11	NO	1.040	1.040	97.543	97.5	NO

Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_1.qld

Last Altered: Thursday, November 05, 2020 14:31:38 Pacific Standard Time

Printed: Thursday, November 05, 2020 15:12:17 Pacific Standard Time

Name: 201105R1\_1, Date: 05-Nov-2020, Time: 11:32:43, ID: ST201105R1\_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	6.11e5	8.46e5	0.43	NO	0.735	36.67	36.69	NO	1.086	1.087	98.173	98.2	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.57e5	8.46e5	0.42	NO	0.568	38.65	38.73	NO	1.145	1.148	95.147	95.1	NO
34	34 13C-OCDF	1.06e6	8.46e5	0.86	NO	0.629	41.26	41.36	NO	1.222	1.225	198.99	99.5	NO
35	35 37Cl-2,3,7,8-TCDD	1.23e5	1.04e6			1.09	26.21	26.23	NO	1.030	1.031	10.863	109	NO
36	36 13C-1,2,3,4-TCDD	1.04e6	1.04e6	0.80	NO	1.00	25.43	25.45	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.58e6	1.58e6	0.78	NO	1.00	24.13	23.97	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	8.46e5	8.46e5	0.52	NO	1.00	33.84	33.75	NO	1.000	1.000	100.00	100	YES <i>dk</i>



Dataset: Untitled

Last Altered: Friday, November 06, 2020 09:19:56 Pacific Standard Time  
Printed: Friday, November 06, 2020 09:20:14 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

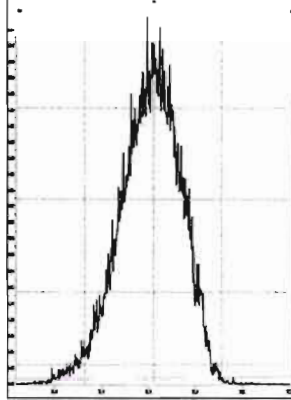
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
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2	201105R1_2	TCDF CP5M	05-Nov-20	12:18:51
3	201105R1_3	SOLVENT BLANK	05-Nov-20	13:03:45
4	201105R1_4	B0J0262-BS2 OPR 10	05-Nov-20	13:49:24
5	201105R1_5	B0J0262-BS7 OPR 10	05-Nov-20	14:38:45
6	201105R1_6	B0J0262-BS1 OPR 10	05-Nov-20	15:27:02
7	201105R1_7	B0J0169-BS1 OPR 10	05-Nov-20	16:14:16
8	201105R1_8	SOLVENT BLANK	05-Nov-20	16:59:51
9	201105R1_9	B0J0262-BLK1 Method Blank 10	05-Nov-20	17:44:44
10	201105R1_10	B0J0169-BLK1 Method Blank 10	05-Nov-20	18:29:35
11	201105R1_11	2002223-01 EFF 0.83918	05-Nov-20	19:14:27
12	201105R1_12	2002225-01 2029281-01 0.93844	05-Nov-20	19:59:18
13	201105R1_13	2002229-04 NCPDI-1008SW-201014 0.97468	05-Nov-20	20:44:08
14	201105R1_14	2002141-01 Composite Wastewater 0.91904	05-Nov-20	21:29:01
15	201105R1_15	2002150-01 I002-RAW WATER #5148789 0.8...	05-Nov-20	22:13:53
16	201105R1_16	2002152-01 Lift Station Composite 0.92461	05-Nov-20	22:58:47
17	201105R2_1	SOLVENT BLANK	05-Nov-20	23:52:45
18	201105R2_2	ST201105R2_1 1613 CS3 20F1105	06-Nov-20	00:37:38

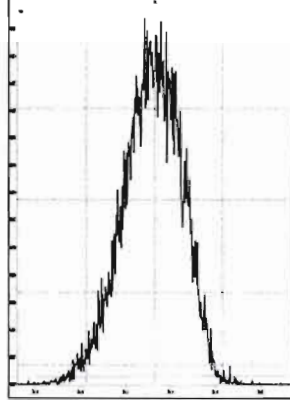
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, November 05, 2020 11:20:17 Pacific Standard Time

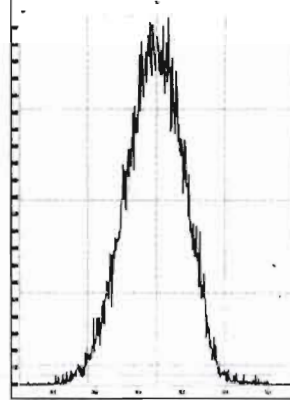
M 292.9824 R 10039



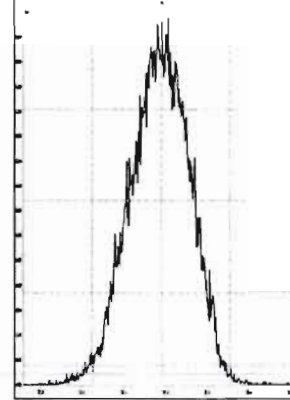
M 304.9824 R 10457



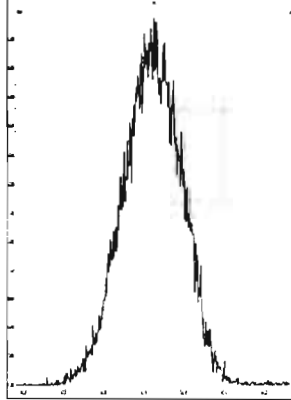
M 318.9792 R 10330



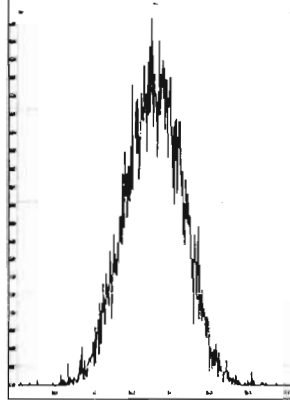
M 330.9792 R 10501



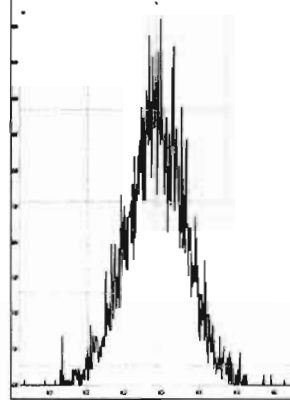
M 342.9792 R 10822



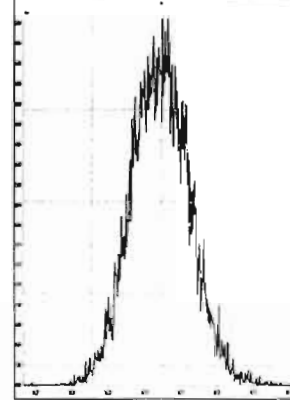
M 354.9792 R 10550



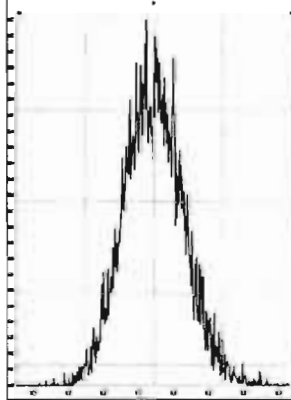
M 366.9792 R 10377



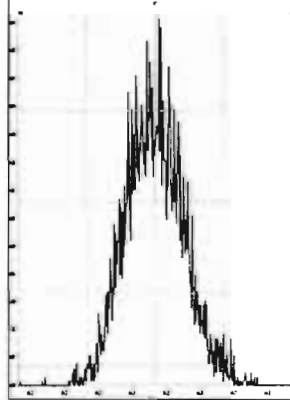
M 380.9760 R 10201



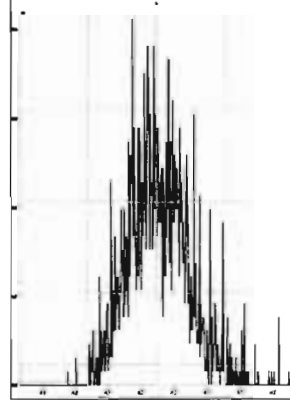
M 392.9760 R 10459



M 404.9760 R 11575



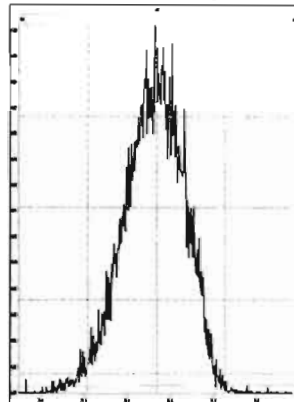
M 416.9760 R 12561



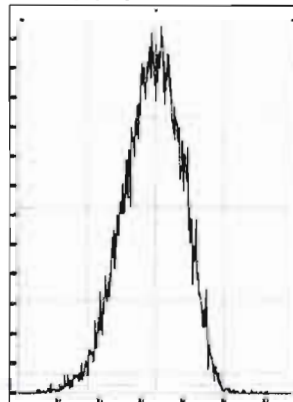
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, November 05, 2020 11:21:51 Pacific Standard Time

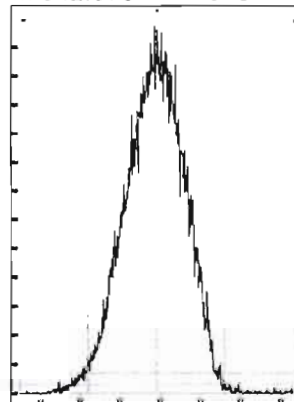
M 318.9792 R 10776



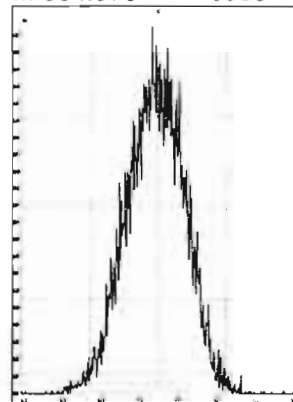
M 330.9792 R 10414



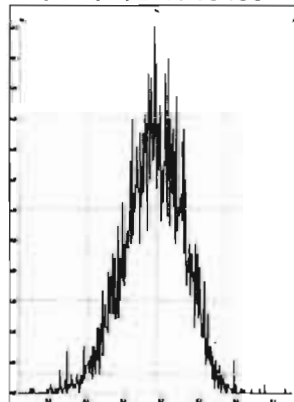
M 342.9792 R 10284



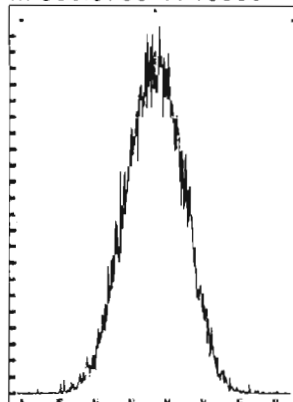
M 354.9792 R 10963



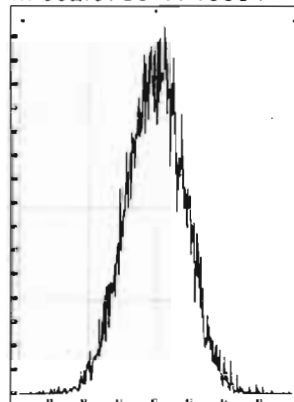
M 366.9792 R 10460



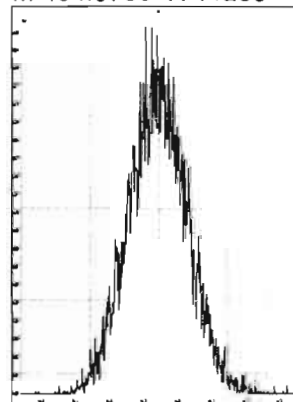
M 380.9760 R 10686



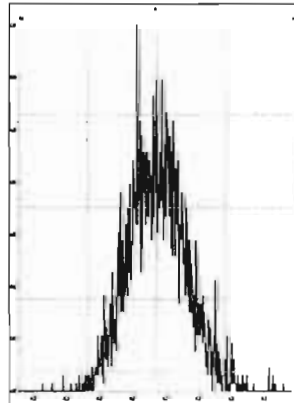
M 392.9760 R 10684



M 404.9760 R 11263



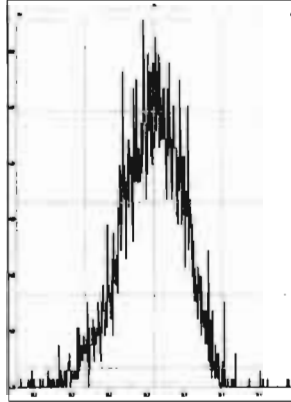
M 416.9760 R 11574



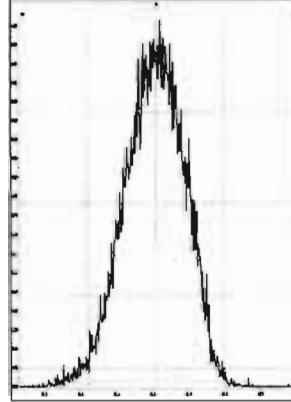
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Printed: Thursday, November 05, 2020 11:23:53 Pacific Standard Time

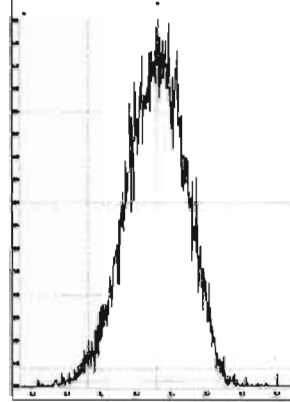
M 366.9792 R 10917



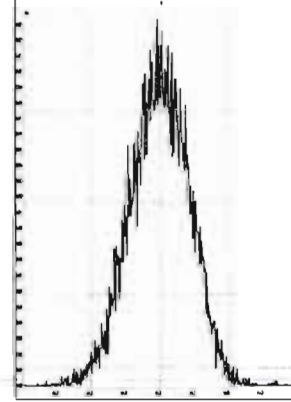
M 380.9760 R 10547



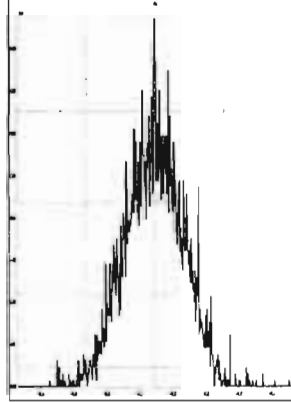
M 392.9760 R 11062



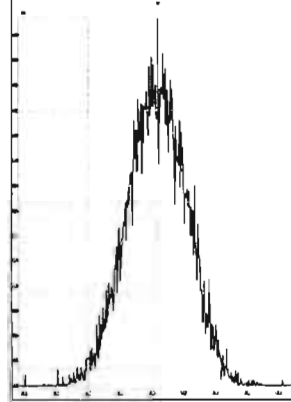
M 404.9760 R 10458



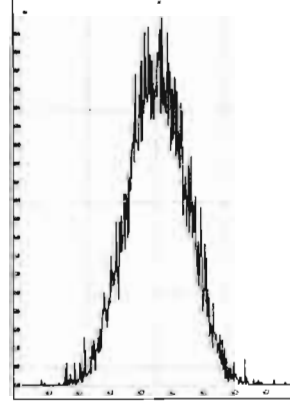
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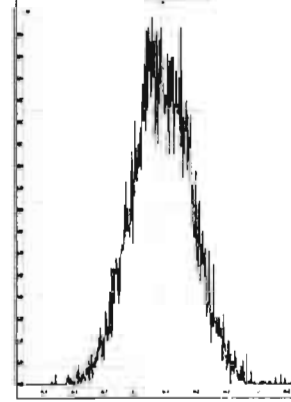
M 430.9728 R 10120



M 442.9728 R 10638



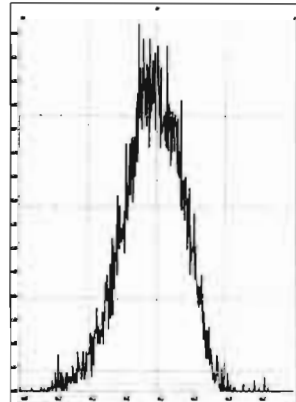
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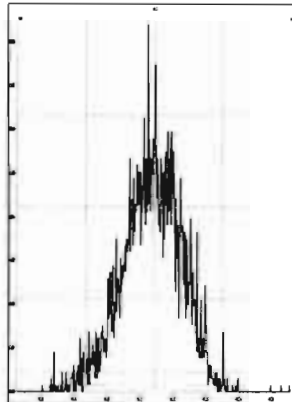
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Printed: Thursday, November 05, 2020 11:25:16 Pacific Standard Time

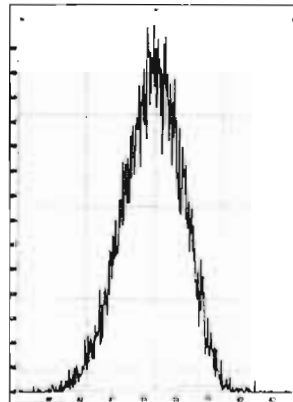
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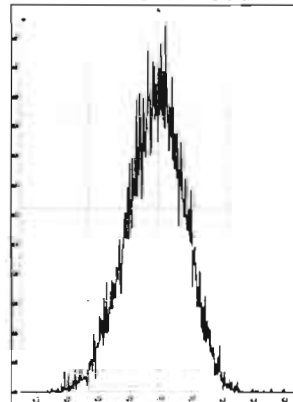
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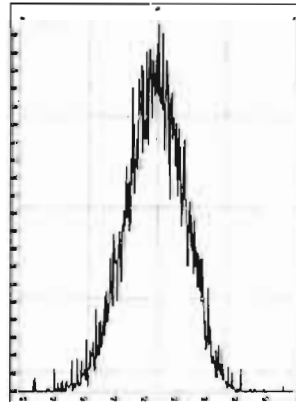
M 430.9728 R 10330



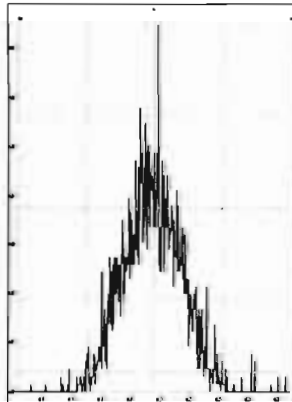
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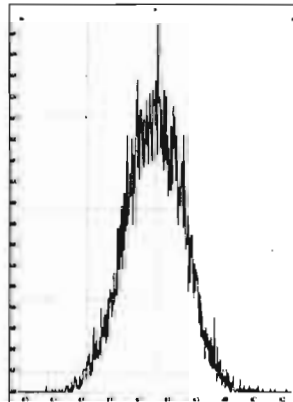
M 454.9728 R 10825



M 466.9728 R 11629



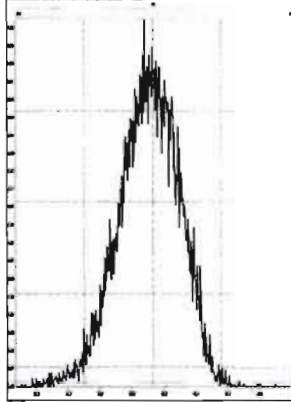
M 480.9696 R 10596



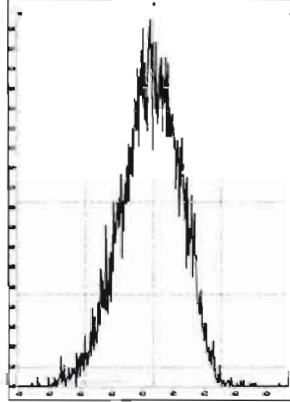
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, November 05, 2020 11:26:14 Pacific Standard Time

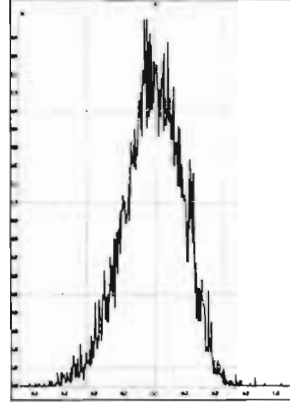
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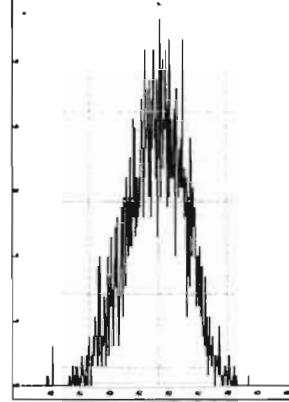
M 442.9728 R 10547



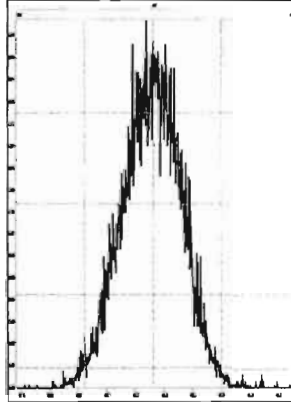
M 454.9728 R 10684



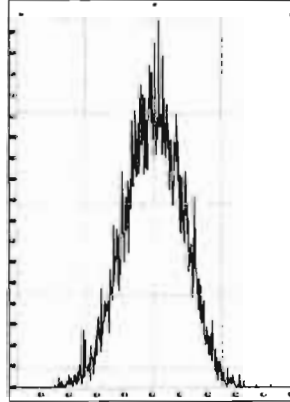
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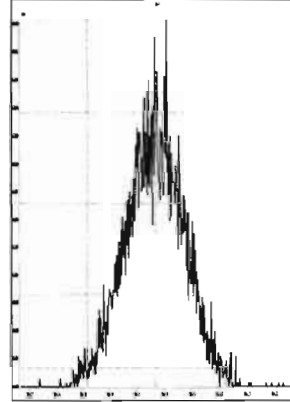
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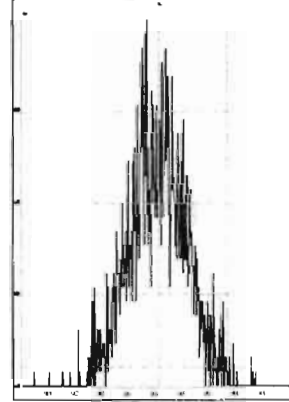
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M 504.9696 R 10545



M 516.9697 R 13891



Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_CPSM.qld

Last Altered: Thursday, November 05, 2020 14:54:43 Pacific Standard Time

Printed: Thursday, November 05, 2020 14:56:21 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 24 Oct 2020 08:05:27

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201105R1\_1, Date: 05-Nov-2020, Time: 11:32:43, ID: ST201105R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	RT
1	1,3,6,8-TCDD (First)	22.46
2	1,2,8,9-TCDD (Last)	27.12
3	1,2,4,7,9-PeCDD (First)	28.64
4	1,2,3,8,9-PeCDD (Last)	31.26
5	1,2,4,6,7,9-HxCDD (First)	32.59
6	1,2,3,7,8,9-HxCDD (Last)	34.63
7	1,2,3,4,6,7,9-HpCDD (First)	37.09
8	1,2,3,4,6,7,8-HpCDD (Last)	38.12
9	1,3,6,8-TCDF (First)	20.23
10	1,2,8,9-TCDF (Last)	27.43
11	1,3,4,6,8-PeCDF (First)	27.00
12	1,2,3,8,9-PeCDF (Last)	31.62
13	1,2,3,4,6,8-HxCDF (First)	32.05
14	1,2,3,7,8,9-HxCDF (Last)	35.12
15	1,2,3,4,6,7,8-HpCDF (First)	36.71
16	1,2,3,4,7,8,9-HpCDF (Last)	38.74

Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_CPSM.qld

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Printed: Thursday, November 05, 2020 14:56:21 Pacific Standard Time

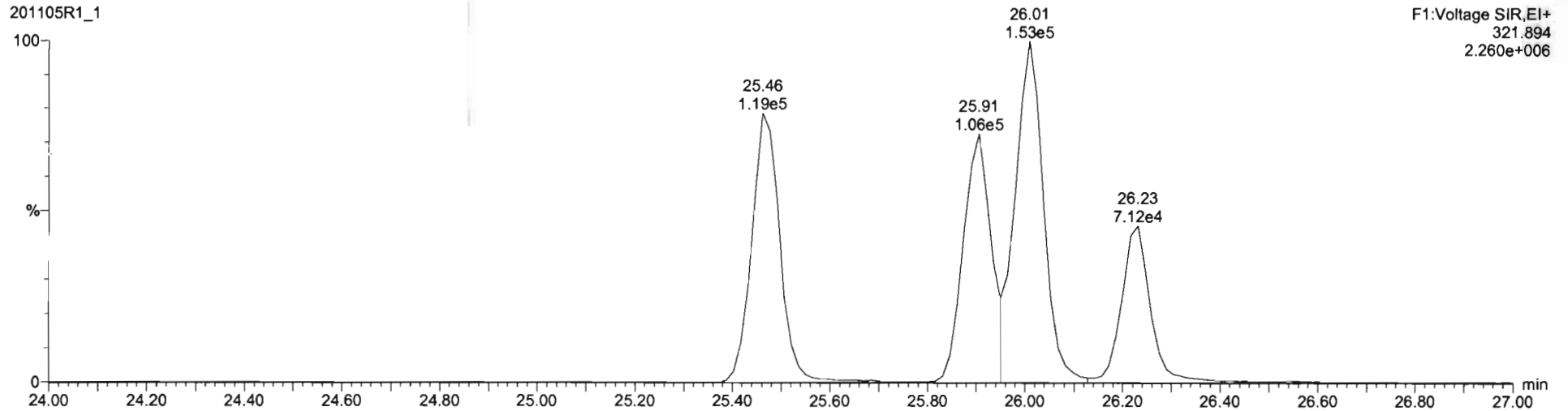
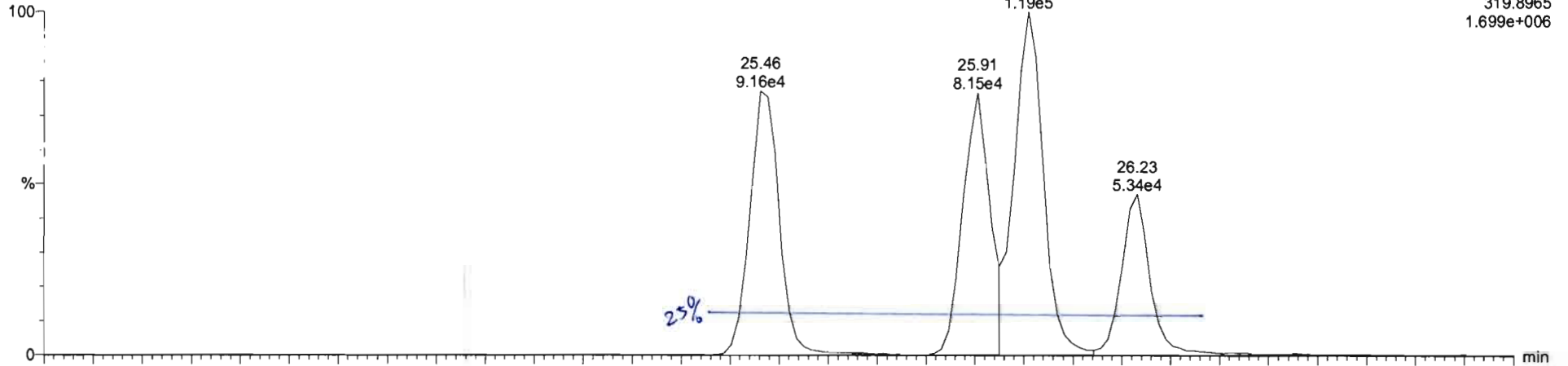
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201105R1\_1, Date: 05-Nov-2020, Time: 11:32:43, ID: ST201105R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

1,3,6,8-TCDD (First)  
201105R1\_1

*HN 11/05/2020*  
*GRB 11/06/2020*

F1:Voltage SIR,EI+  
319.8965  
1.699e+006

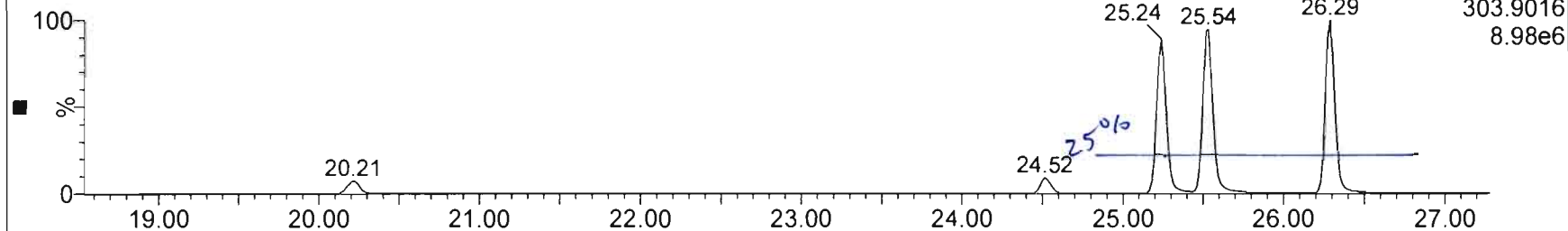




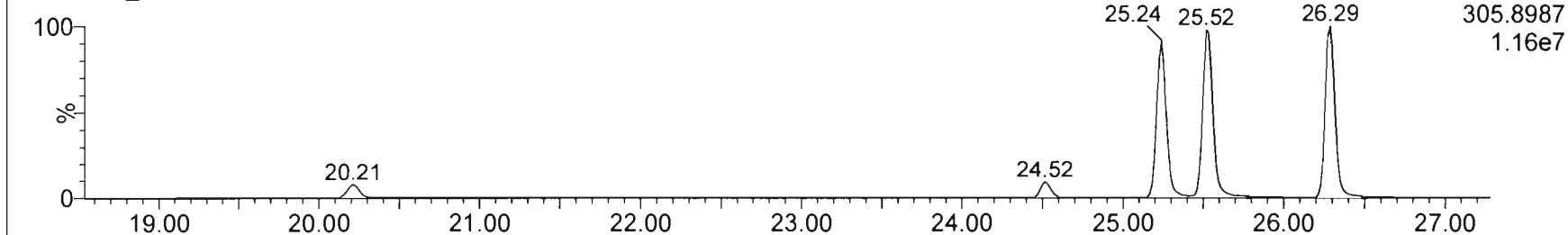
FIN 11/05/2020  
GRB 11/06/2020

### TCDF CPSM QC

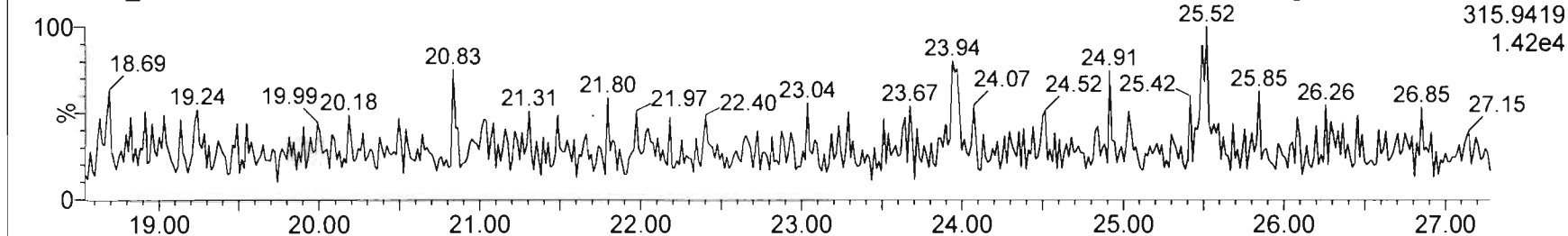
201105R1\_2



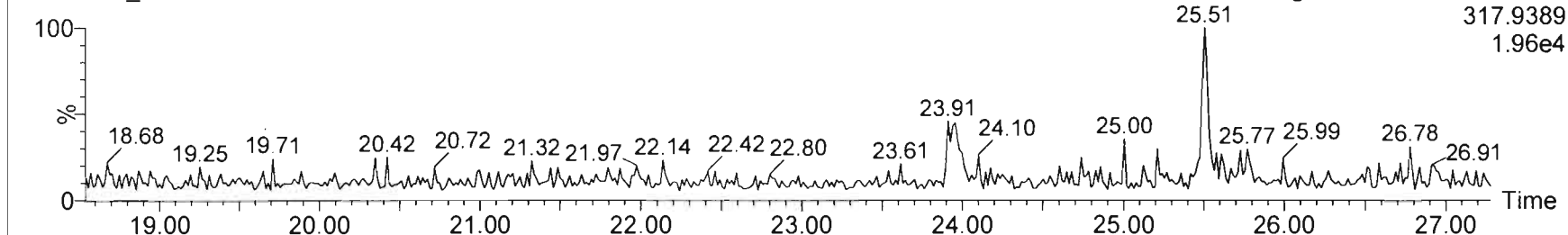
201105R1\_2



201105R1\_2



201105R1\_2



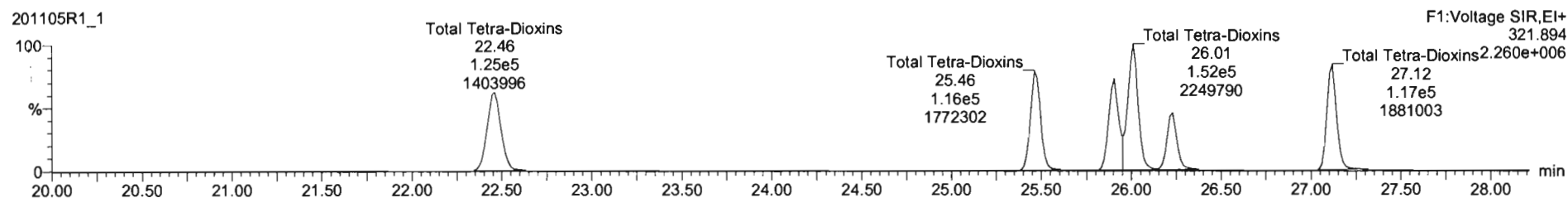
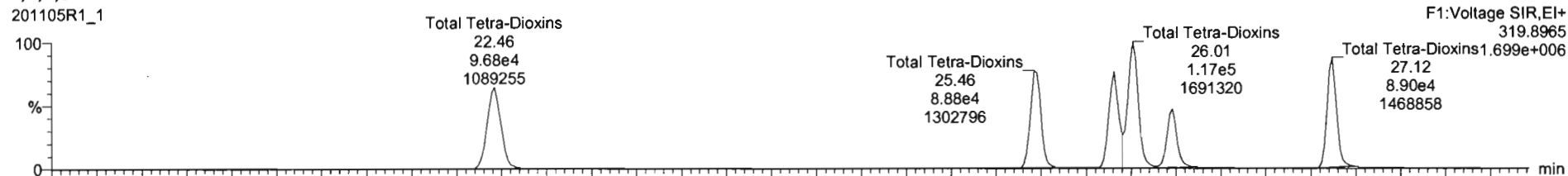
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Last Altered: Thursday, November 05, 2020 14:31:38 Pacific Standard Time  
Printed: Thursday, November 05, 2020 14:32:03 Pacific Standard Time

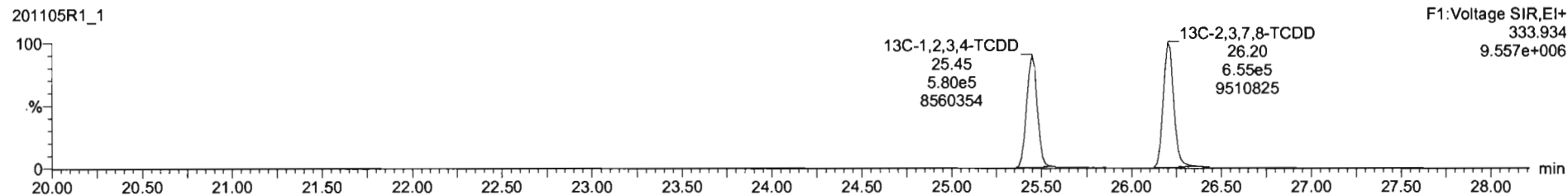
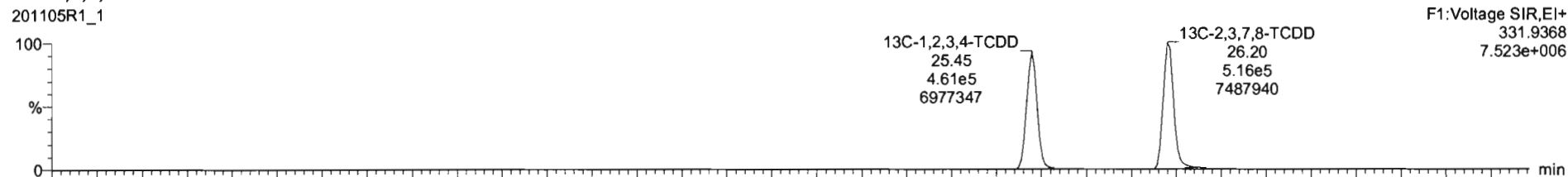
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Name: 201105R1\_1, Date: 05-Nov-2020, Time: 11:32:43, ID: ST201105R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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



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



Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_1.qld

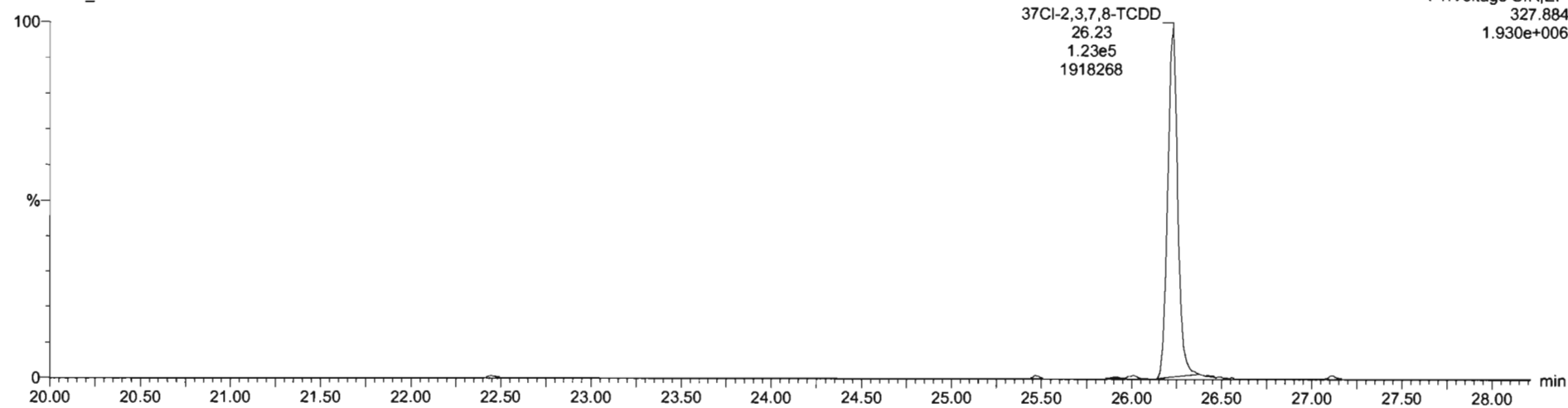
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Printed: Thursday, November 05, 2020 14:32:03 Pacific Standard Time

Name: 201105R1\_1, Date: 05-Nov-2020, Time: 11:32:43, ID: ST201105R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

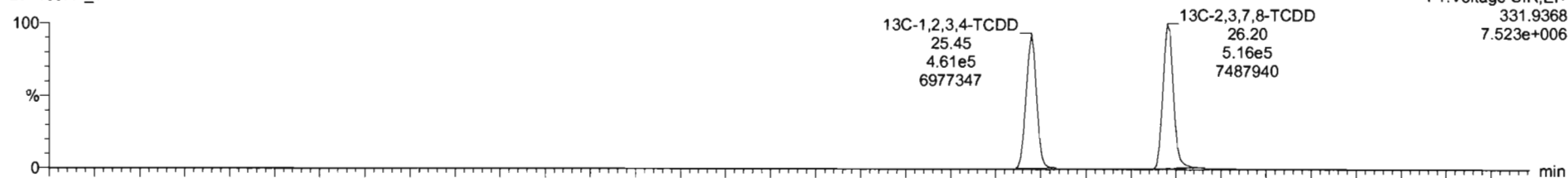
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201105R1\_1

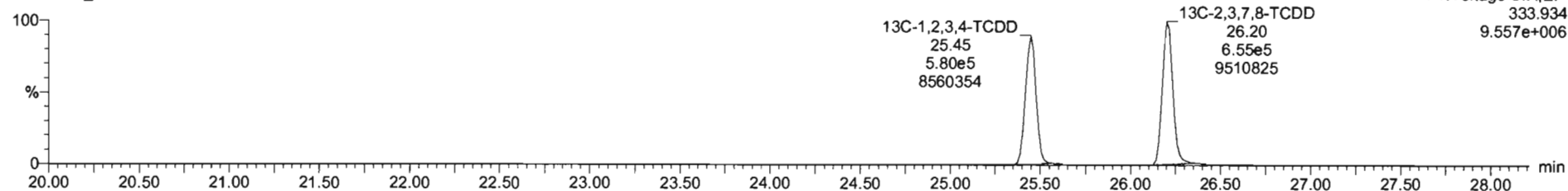


**13C-1,2,3,4-TCDD**

201105R1\_1



201105R1\_1



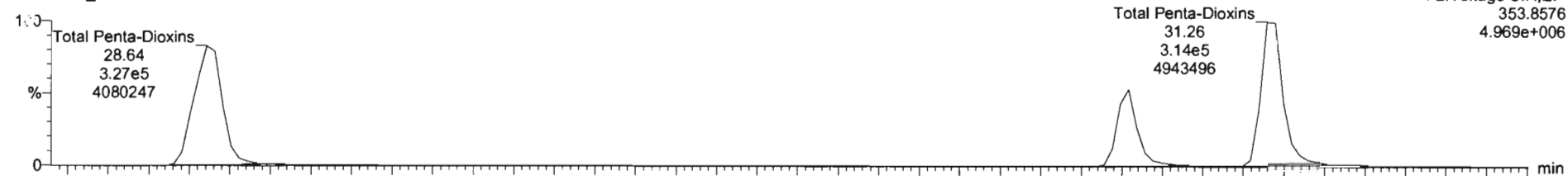
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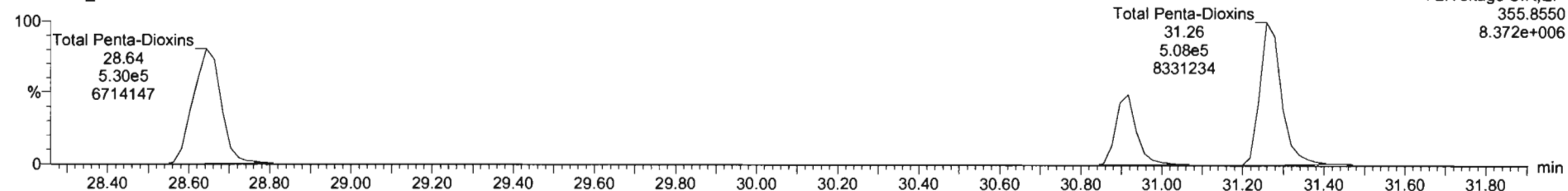
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**1,2,3,7,8-PeCDD**

201105R1\_1

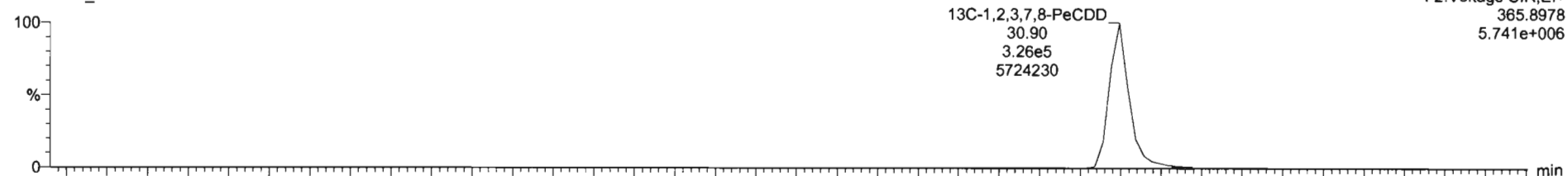


201105R1\_1

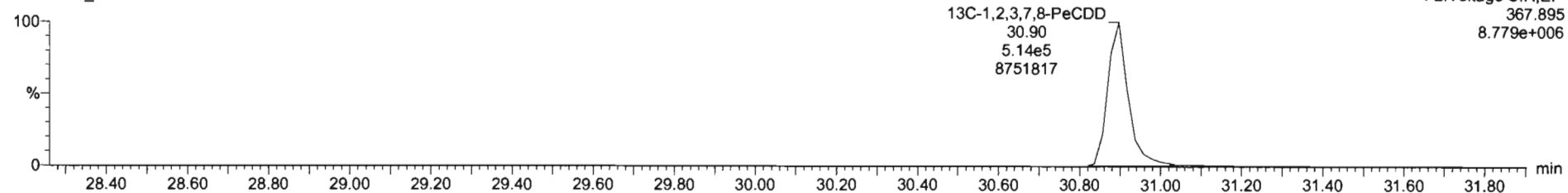


**13C-1,2,3,7,8-PeCDD**

201105R1\_1



201105R1\_1

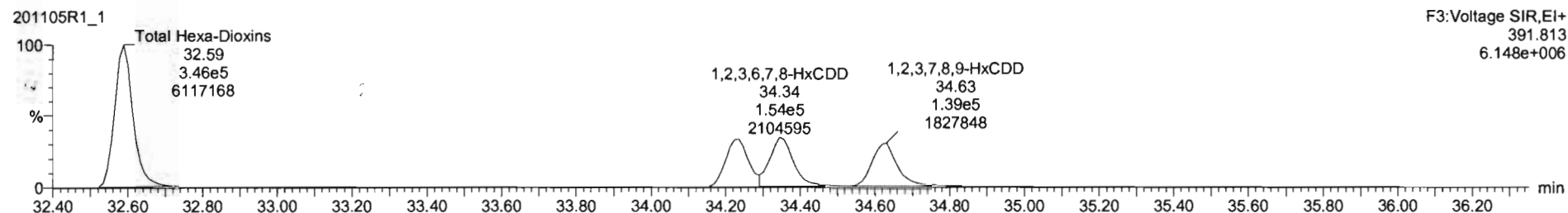
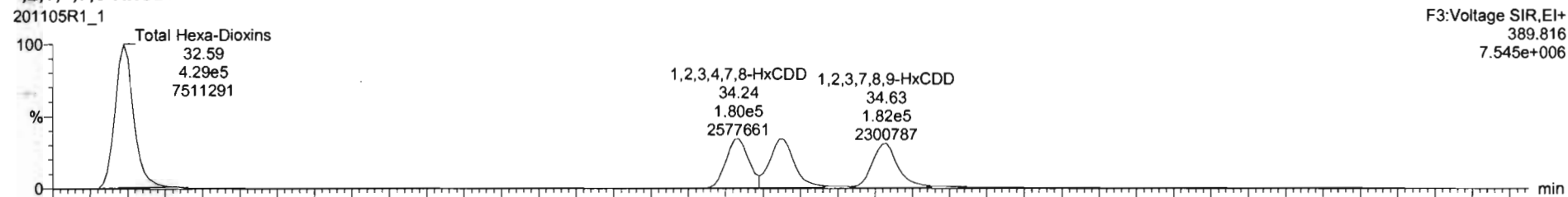


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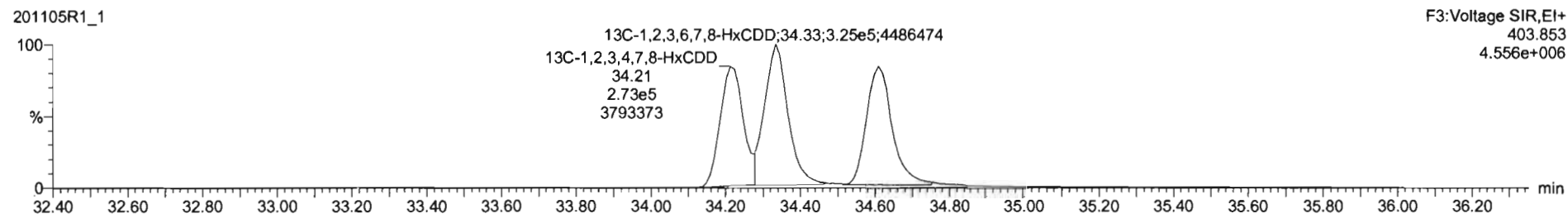
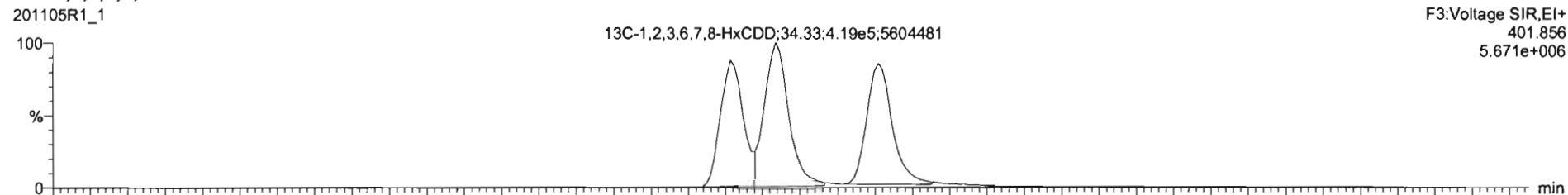
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Name: 201105R1\_1, Date: 05-Nov-2020, Time: 11:32:43, ID: ST201105R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

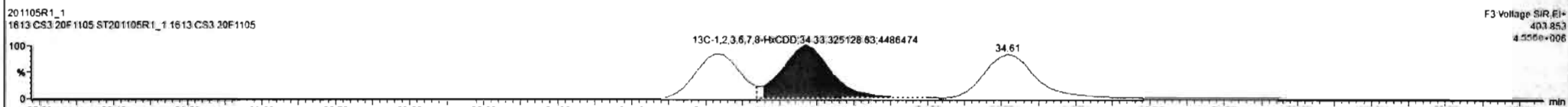
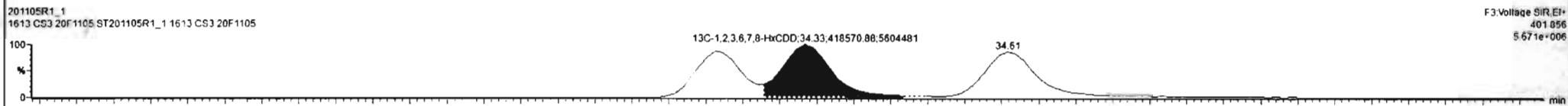
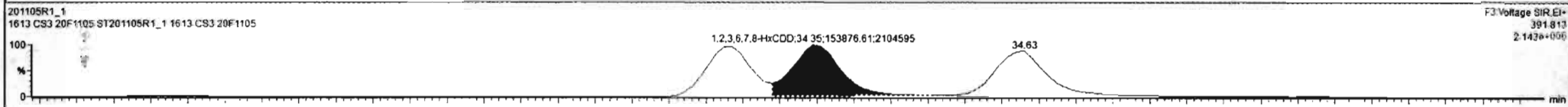
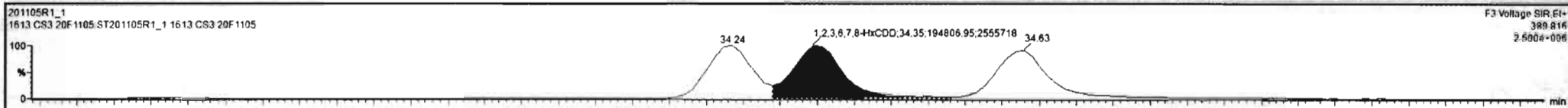
**1,2,3,4,7,8-HxCDD**



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

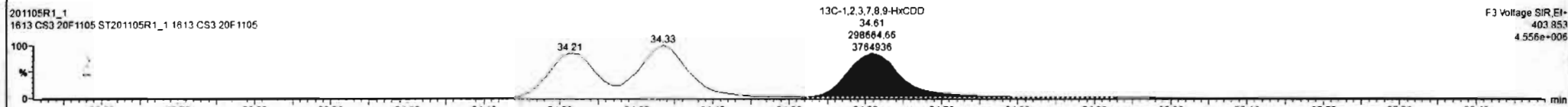
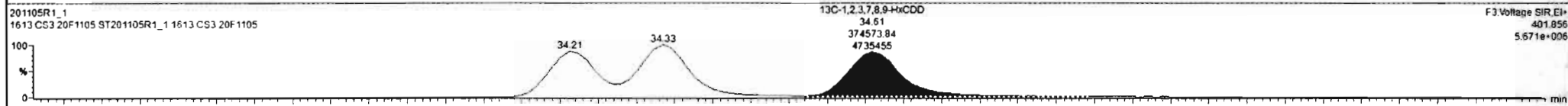
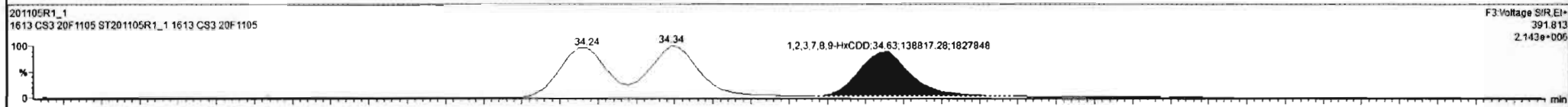
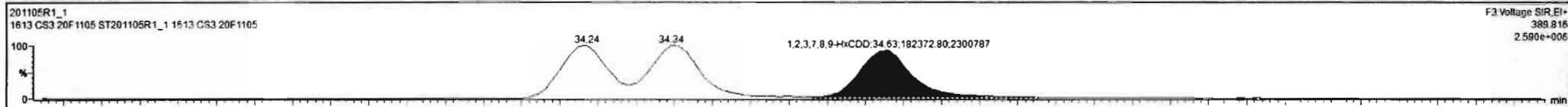


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1	1,2,3,7,8-TCDD	1.17e5	1.17e6	0.77	0.78	NO	0.9501	26.23	26.23	NO	1.001	1.001	10.5	106	NO
2	1,2,3,7,8-PeCDD	3.97e5	8.39e5	0.63	0.62	NO	0.8855	30.91	30.92	NO	1.000	1.001	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	3.23e5	6.23e5	1.24	1.26	NO	1.0178	34.24	34.24	NO	1.001	1.001	50.9	102	NO
4	1,2,3,6,7,8-HxCDD	5.89e5	7.44e5	1.20	1.27	NO	0.9145	34.34	34.35	NO	1.000	1.000	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	3.21e5	6.73e5	1.24	1.31	NO	0.9345	34.62	34.63	NO	1.000	1.001	51.1	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.83e5	1.04	1.01	NO	0.8697	38.10	38.12	NO	1.000	1.000	50.9	102	NO
7	OCDD	4.45e5	9.92e5	0.89	0.88	NO	0.8717	41.06	41.07	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	1.22e5	1.53e6	0.77	0.75	NO	0.8243	25.53	25.55	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	6.27e5	1.27e6	1.56	1.55	NO	0.9626	29.64	29.65	NO	1.000	1.001	51.5	103	NO
10	2,3,4,7,8-PeCDF	8.28e5	1.16e6	1.55	1.58	NO	1.0684	30.89	30.72	NO	1.000	1.001	50.3	101	NO
11	1,2,3,4,7,8-HxCDF	3.72e5	7.87e5	1.24	1.21	NO	0.9535	33.30	33.33	NO	1.000	1.001	49.6	99.2	NO
12	1,2,3,6,7,8-HxCDF	4.23e5	8.37e5	1.24	1.21	NO	1.0080	33.43	33.46	NO	1.000	1.001	50.1	100	NO
13	2,3,4,6,7,8-HxCDF	3.82e5	7.72e5	1.24	1.21	NO	0.9907	34.11	34.13	NO	1.000	1.001	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	3.17e5	6.63e5	1.24	1.24	NO	0.9506	35.11	35.12	NO	1.000	1.000	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.02e5	6.11e5	1.04	1.00	NO	0.9986	36.69	36.71	NO	1.000	1.001	49.5	99.0	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.57e5	1.04	0.99	NO	1.1238	38.73	38.74	NO	1.000	1.000	49.0	97.9	NO
17	OCDF	4.85e5	1.06e6	0.89	0.87	NO	0.8682	41.37	41.37	NO	1.000	1.000	101	101	NO
18	13C-2,3,7,8-TCDD	1.17e6	1.04e6	0.77	0.79	NO	1.1089	26.19	26.20	NO	1.029	1.030	101	101	NO
19	13C-1,2,3,7,8-PeCDD	8.39e5	1.04e6	0.63	0.63	NO	0.8585	30.82	30.90	NO	1.211	1.214	93.9	93.9	NO
20	13C-1,2,3,4,7,8-HxCDD	6.23e5	8.46e5	1.24	1.28	NO	0.6997	34.20	34.21	NO	1.013	1.014	105	105	NO



201105R1\_1 CAP NUM

#	Name	Resp	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	MRc	STD out
1	1,2,3,7,8-TCDD	1.17e5	1.17e6	0.77	0.76	NO	0.9501	26.23	26.23	NO	1.001	1.001	10.6	106	NO
2	1,2,3,7,8-PeCDD	3.97e5	8.39e5	0.63	0.62	NO	0.8855	30.91	30.92	NO	1.000	1.001	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	3.23e5	6.23e5	1.24	1.26	NO	1.0178	34.24	34.24	NO	1.001	1.001	50.9	102	NO
4	1,2,3,6,7,8-HxCDD	3.49e5	7.44e5	1.24	1.27	NO	0.9145	34.34	34.35	NO	1.000	1.000	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	3.21e5	8.73e5	1.24	1.31	NO	0.9345	34.62	34.63	NO	1.000	1.001	51.1	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.63e5	1.04	1.01	NO	0.8697	38.10	38.12	NO	1.000	1.000	50.9	102	NO
7	OCDD	4.45e5	9.92e5	0.89	0.88	NO	0.8717	41.06	41.07	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	1.22e5	1.53e6	0.77	0.75	NO	0.8243	25.53	25.55	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	6.27e5	1.27e6	1.55	1.55	NO	0.9526	29.64	29.65	NO	1.000	1.001	51.5	103	NO
10	2,3,4,7,8-PeCDF	8.26e5	1.16e6	1.55	1.56	NO	1.0684	30.69	30.72	NO	1.000	1.001	50.3	101	NO
11	1,2,3,4,7,8-HxCDF	3.72e5	7.87e5	1.24	1.21	NO	0.9535	33.30	33.33	NO	1.000	1.001	49.6	99.2	NO
12	1,2,3,6,7,8-HxCDF	4.23e5	8.37e5	1.24	1.21	NO	1.0080	33.43	33.46	NO	1.000	1.001	50.1	100	NO
13	2,3,4,6,7,8-HxCDF	3.82e5	7.72e5	1.24	1.21	NO	0.9907	34.11	34.13	NO	1.000	1.001	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	3.17e5	6.63e5	1.24	1.24	NO	0.9506	35.11	35.12	NO	1.000	1.000	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.02e5	8.11e5	1.04	1.00	NO	0.9986	36.69	36.71	NO	1.000	1.001	49.5	99.0	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.57e5	1.04	0.99	NO	1.1238	38.73	38.74	NO	1.000	1.000	49.0	97.9	NO
17	OCDF	4.65e5	1.06e6	0.89	0.87	NO	0.8682	41.37	41.37	NO	1.000	1.000	101	101	NO
18	13C-2,3,7,8-TCDD	1.17e6	1.04e6	0.77	0.79	NO	1.1089	26.19	26.20	NO	1.023	1.030	101	101	NO
19	13C-1,2,3,7,8-PeCDD	8.39e5	1.04e6	0.63	0.63	NO	0.8585	30.82	30.90	NO	1.211	1.214	93.9	93.9	NO
20	13C-1,2,3,4,7,8-HxCDD	6.23e5	8.46e5	1.24	1.28	NO	0.8997	34.20	34.21	NO	1.013	1.014	105	105	NO



201105R1\_1 CAP NUM

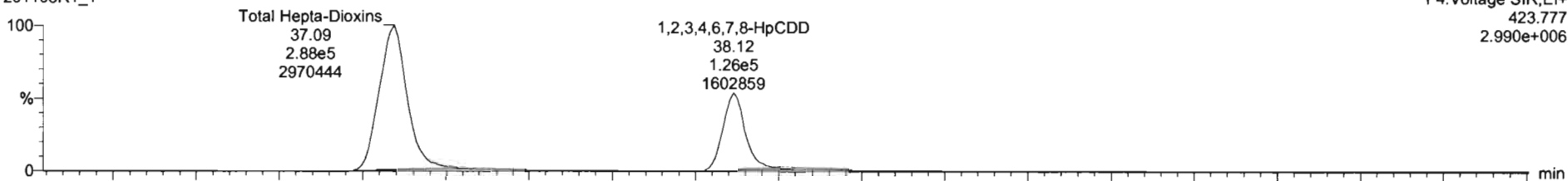
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Printed: Thursday, November 05, 2020 14:32:03 Pacific Standard Time

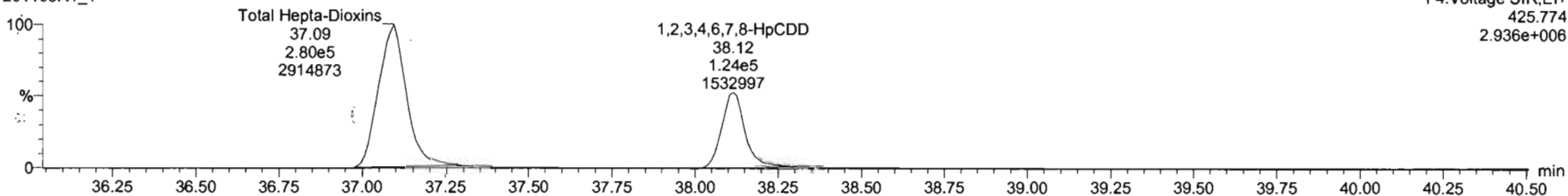
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1,2,3,4,6,7,8-HpCDD

201105R1\_1

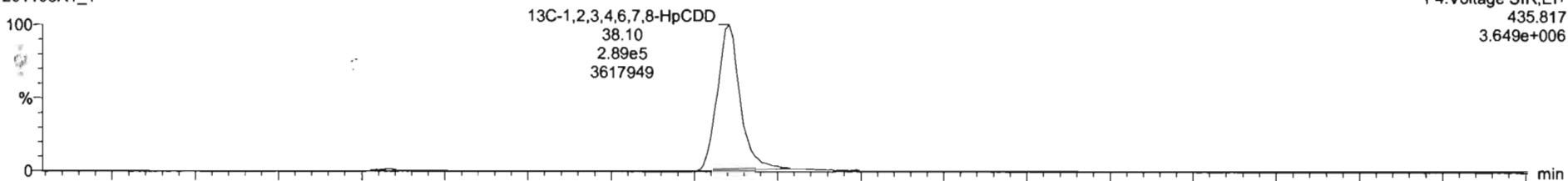


201105R1\_1

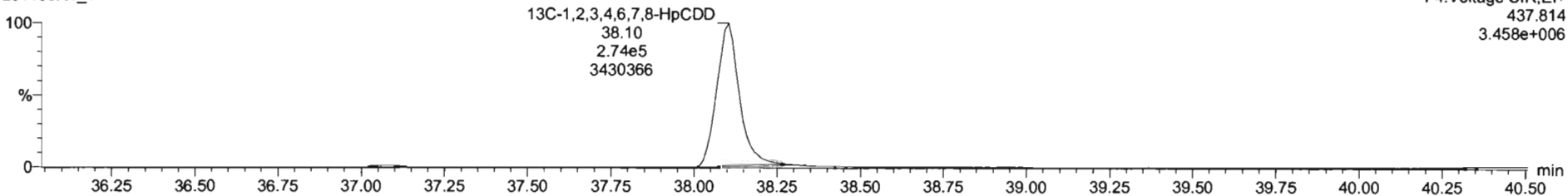


13C-1,2,3,4,6,7,8-HpCDD

201105R1\_1



201105R1\_1





Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_1.qld

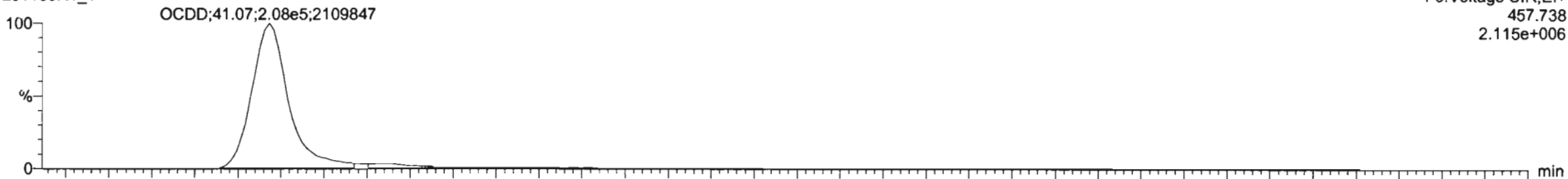
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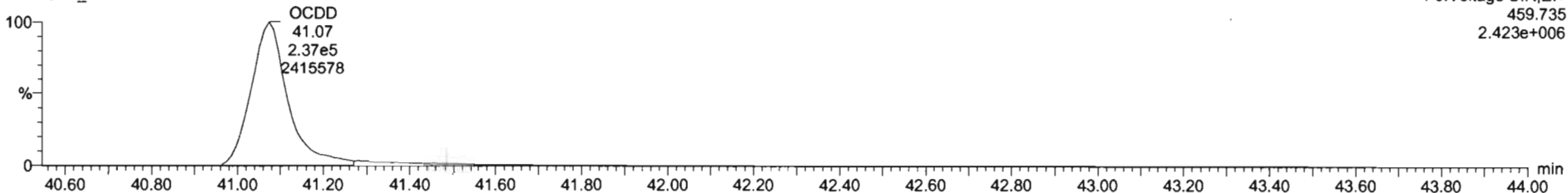
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**OCDD**

201105R1\_1



201105R1\_1

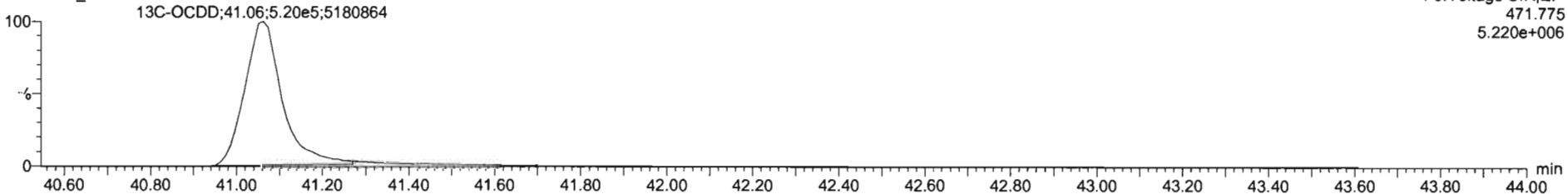


**13C-OCDD**

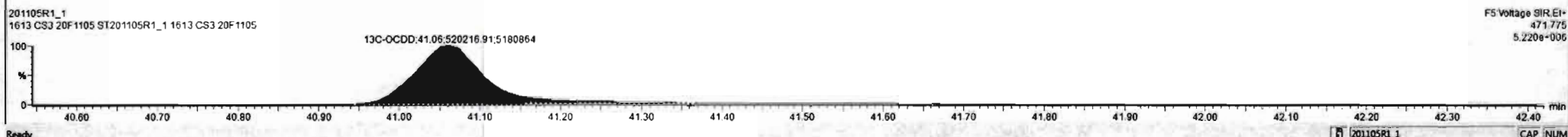
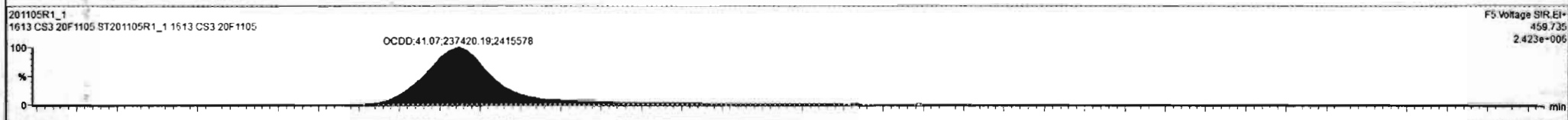
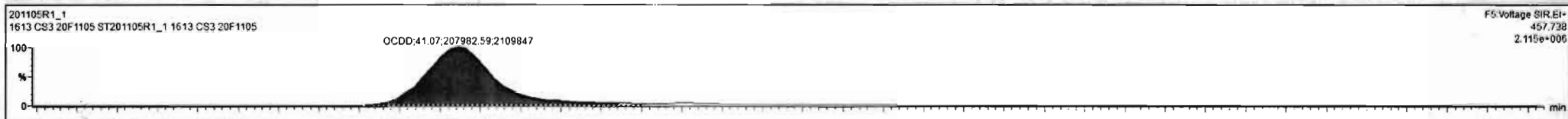
201105R1\_1



201105R1\_1



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.17e5	1.17e6	0.77	0.78	NO	0.9501	26.23	26.23	NO	1.001	1.001	10.6	106	NO
2	1,2,3,7,8-PeCDD	3.97e5	8.39e5	0.63	0.62	NO	0.8855	30.91	30.92	NO	1.000	1.001	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	3.23e5	8.23e5	1.24	1.26	NO	1.0176	34.24	34.24	NO	1.001	1.001	50.9	102	NO
4	1,2,3,6,7,8-HxCDD	3.49e5	7.44e5	1.24	1.27	NO	0.9145	34.34	34.35	NO	1.000	1.000	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	3.21e5	6.73e5	1.24	1.31	NO	0.9345	34.62	34.63	NO	1.000	1.001	51.1	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.63e5	1.04	1.01	NO	0.8697	38.10	38.12	NO	1.000	1.000	50.9	102	NO
7	OCDD	4.45e5	9.92e5	0.88	0.88	NO	0.8717	41.06	41.07	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	1.22e5	1.53e6	0.77	0.75	NO	0.8243	25.53	25.55	NO	1.000	1.001	97.1	97.1	NO
9	1,2,3,7,8-PeCDF	6.27e5	1.27e6	1.55	1.55	NO	0.9526	29.64	29.65	NO	1.000	1.001	51.5	103	NO
10	2,3,4,7,8-PeCDF	8.28e5	1.18e6	1.55	1.56	NO	1.0684	30.69	30.72	NO	1.000	1.001	50.3	101	NO
11	1,2,3,4,7,8-HxCDF	3.72e5	7.87e5	1.24	1.21	NO	0.9535	33.30	33.33	NO	1.000	1.001	49.6	99.2	NO
12	1,2,3,6,7,8-HxCDF	4.23e5	8.37e5	1.24	1.21	NO	1.0080	33.43	33.46	NO	1.000	1.001	50.1	100	NO
13	2,3,4,6,7,8-HxCDF	3.82e5	7.72e5	1.24	1.21	NO	0.9907	34.11	34.13	NO	1.000	1.001	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	3.17e5	6.63e5	1.24	1.24	NO	0.9506	35.11	35.12	NO	1.000	1.000	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.02e5	6.11e5	1.04	1.00	NO	0.9968	36.69	36.71	NO	1.000	1.001	49.5	99.0	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.57e5	1.04	0.99	NO	1.1238	38.73	38.74	NO	1.000	1.000	49.0	97.9	NO
17	OCDF	4.65e5	1.06e6	0.89	0.87	NO	0.8852	41.37	41.37	NO	1.000	1.000	101	101	NO
18	13C-2,3,7,8-TCDD	1.17e6	1.04e6	0.77	0.79	NO	1.1089	26.19	26.20	NO	1.029	1.030	101	101	NO

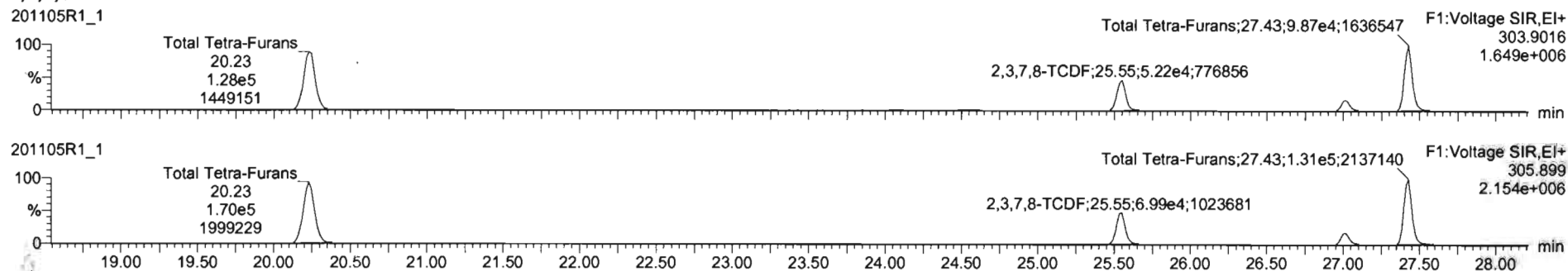


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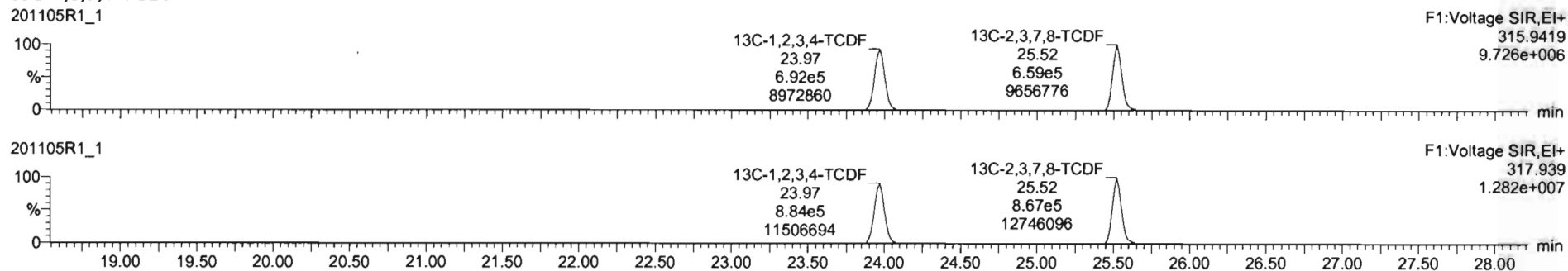
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Printed: Thursday, November 05, 2020 14:32:03 Pacific Standard Time

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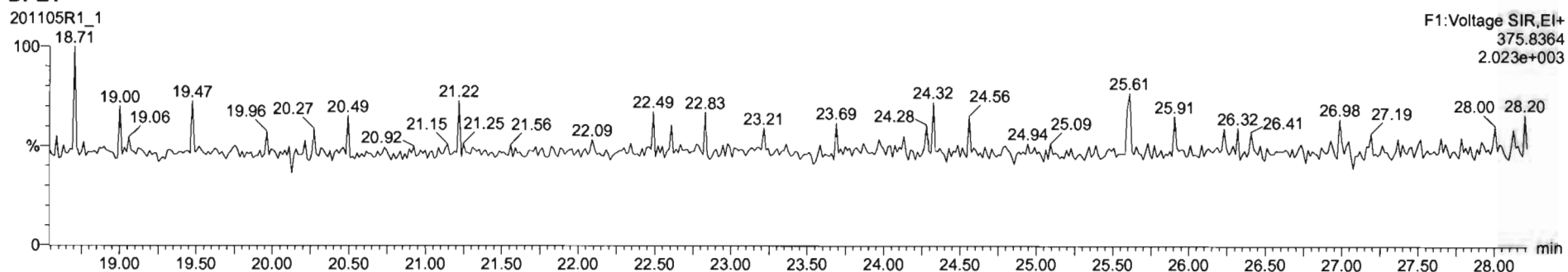
**2,3,7,8-TCDF**



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



**DPE1**



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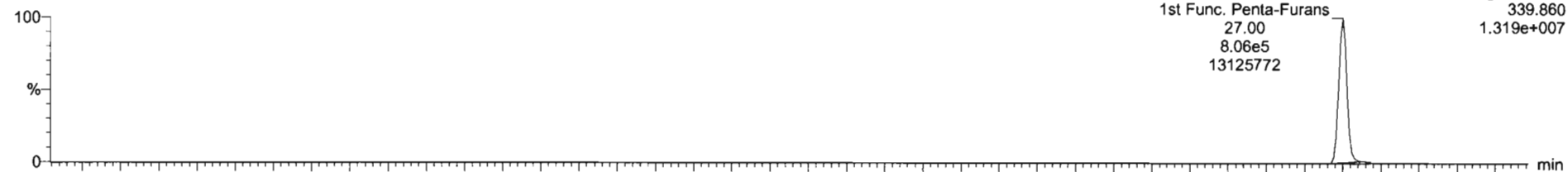
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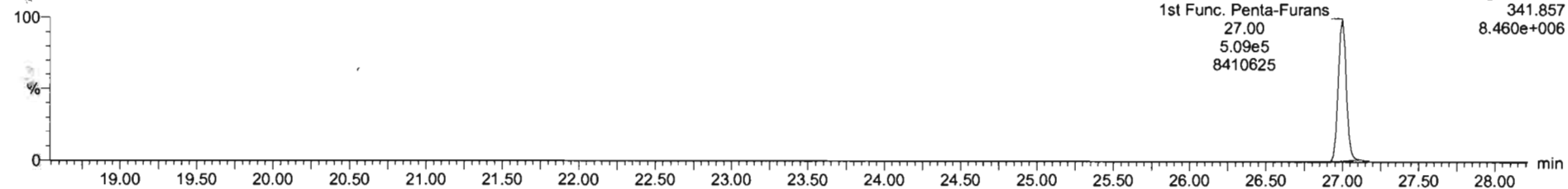
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1st Func. Penta-Furans

201105R1\_1

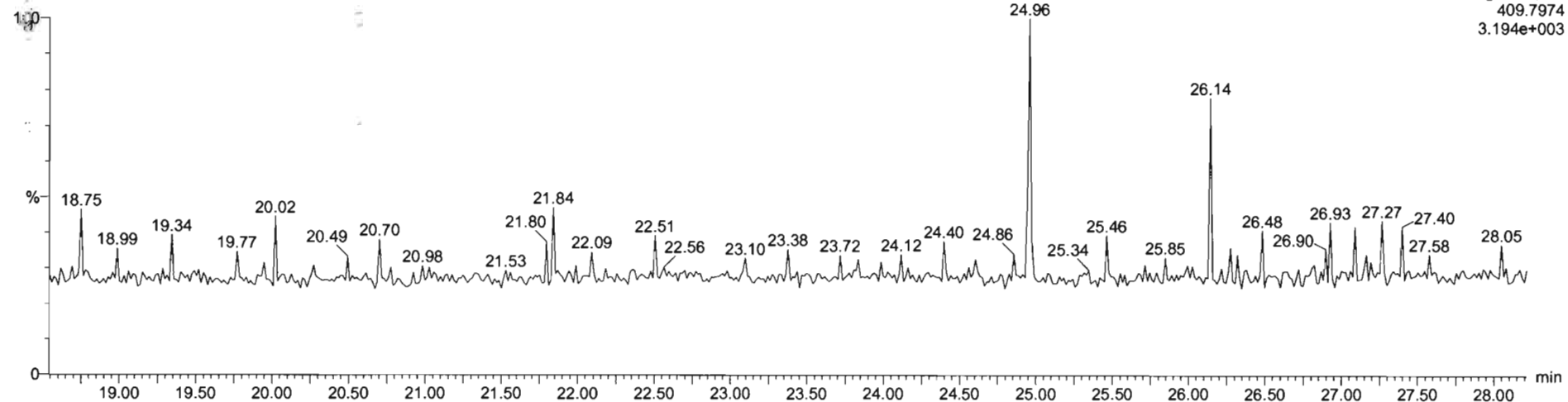


201105R1\_1



DPE6

201105R1\_1



Dataset: U:\VG12.PRO\Results\201105R1\201105R1\_1.qld

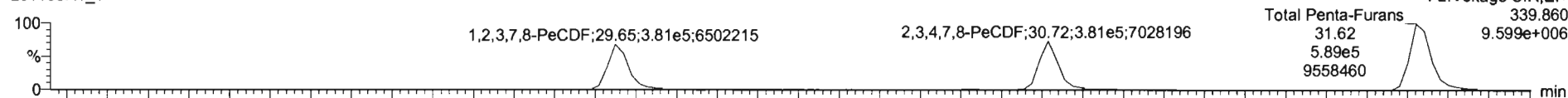
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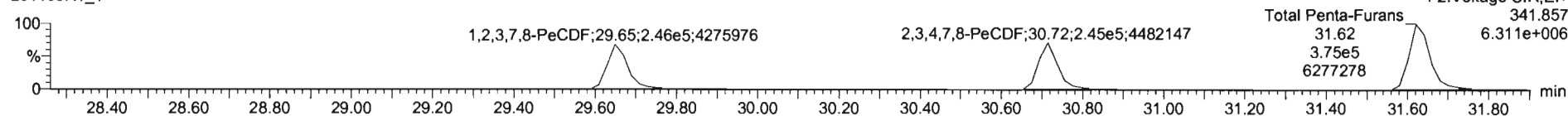
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### 1,2,3,7,8-PeCDF

201105R1\_1

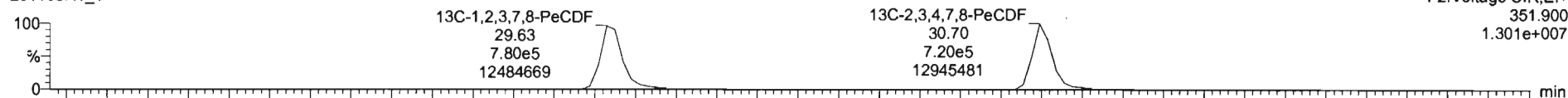


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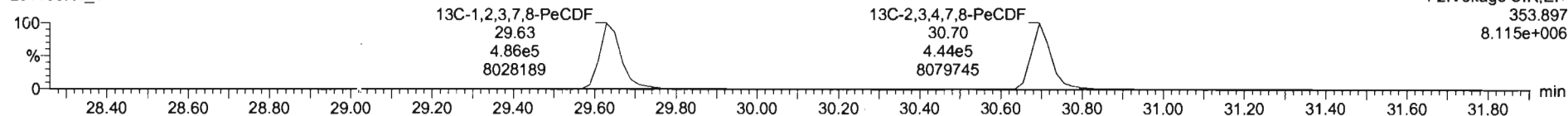


### 13C-1,2,3,7,8-PeCDF

201105R1\_1

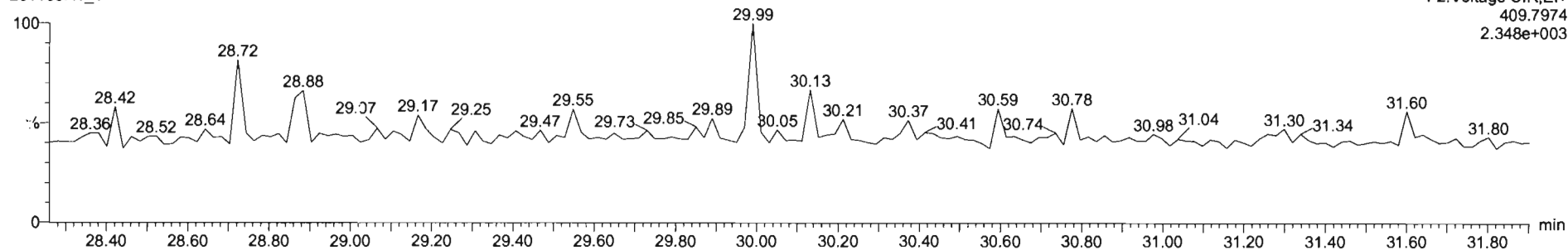


201105R1\_1



### DPE2

201105R1\_1

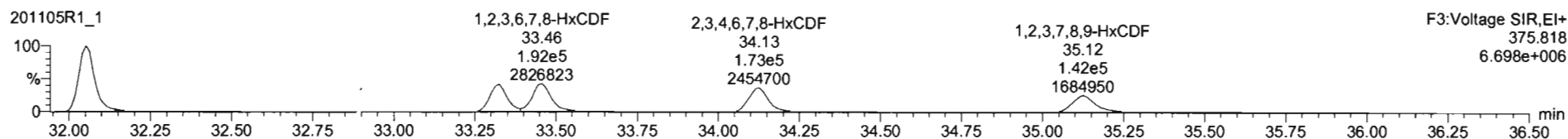
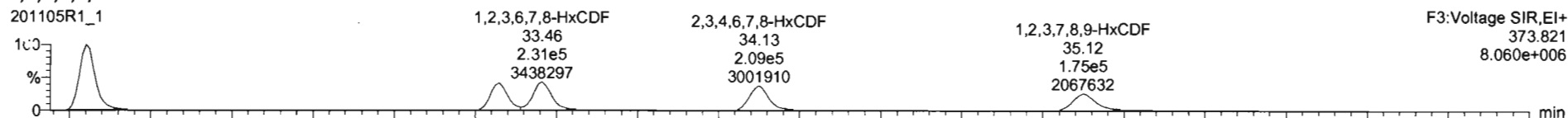


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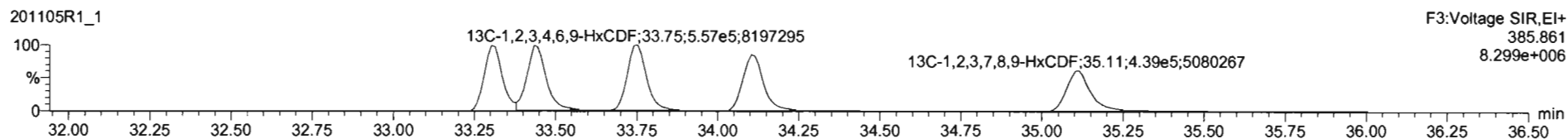
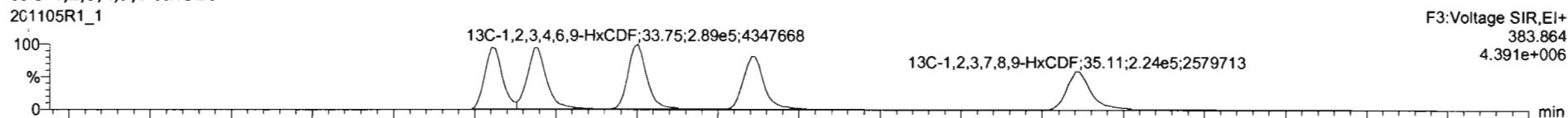
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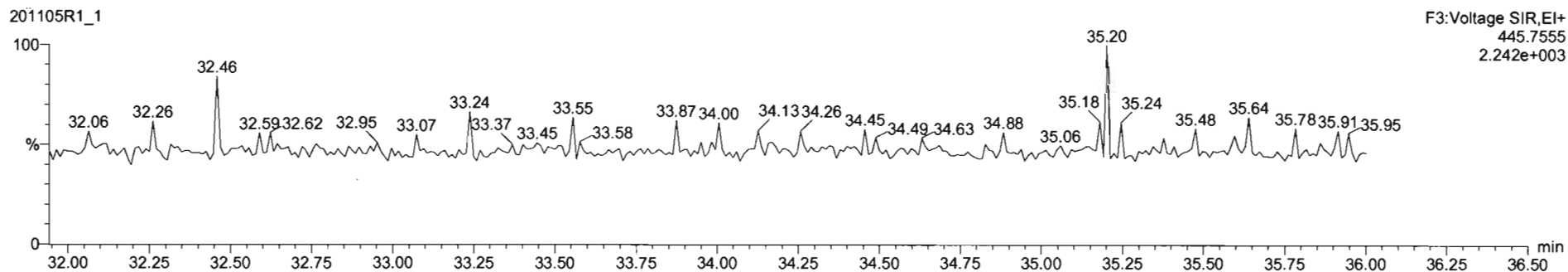
**1,2,3,4,7,8-HxCDF**



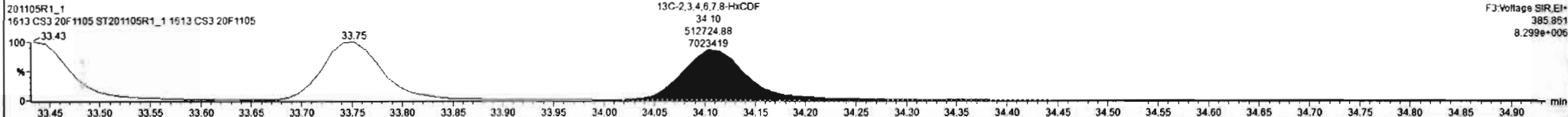
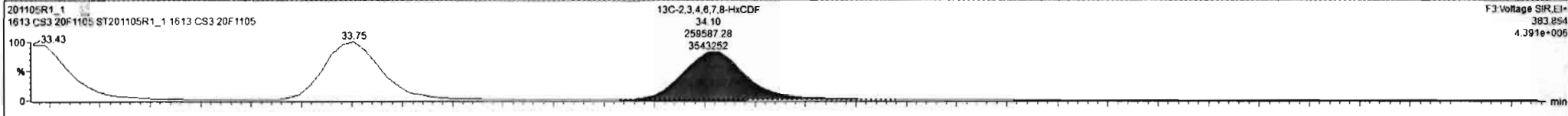
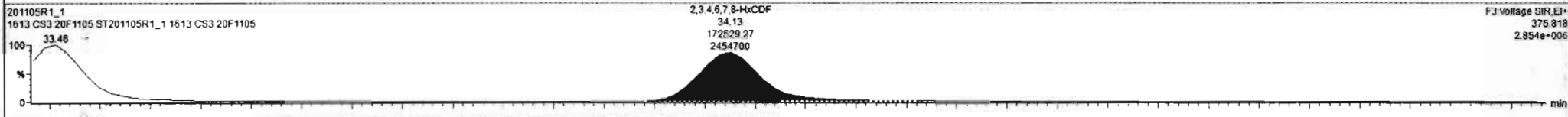
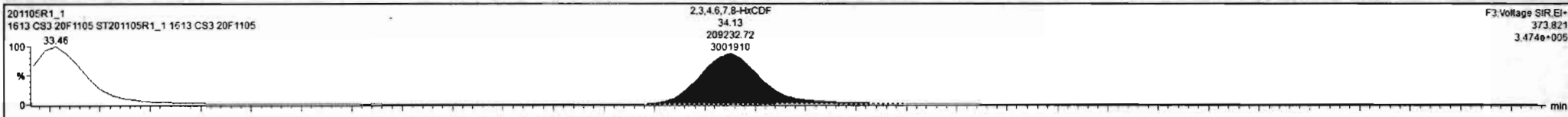
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**

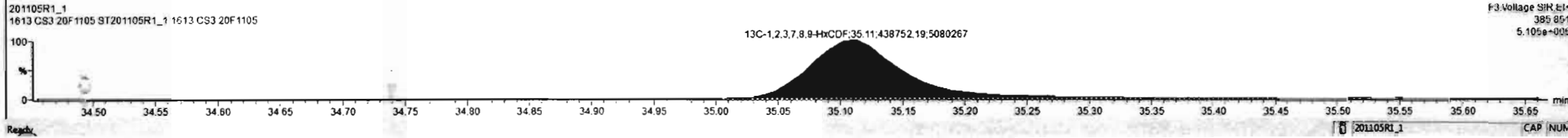
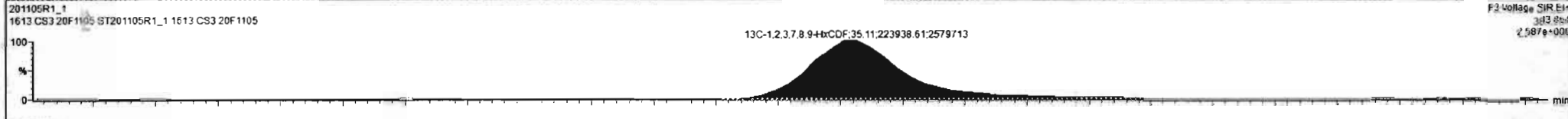
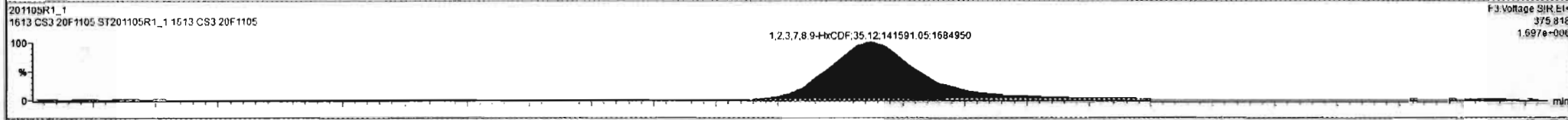
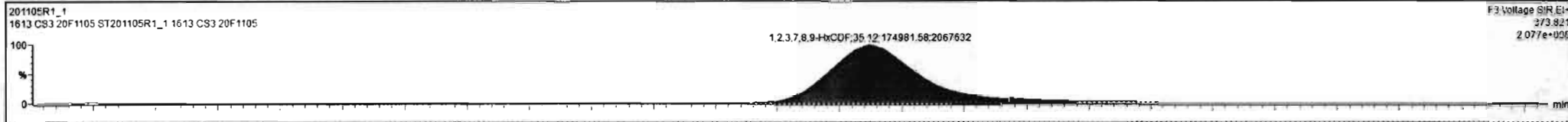


#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	1.17e5	1.17e6	0.77	0.78	NO	0.9501	26.23	26.23	NO	1.001	1.001	10.6	106	NO
2	1,2,3,7,8-PeCDD	3.97e5	8.39e5	0.63	0.62	NO	0.8855	30.91	30.92	NO	1.000	1.001	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	3.23e5	6.23e5	1.24	1.26	NO	1.0178	34.24	34.24	NO	1.001	1.001	50.9	102	NO
4	1,2,3,6,7,8-HxCDD	3.49e5	7.44e5	1.24	1.27	NO	0.9145	34.34	34.35	NO	1.000	1.000	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	3.21e5	6.73e5	1.24	1.31	NO	0.9345	34.62	34.63	NO	1.000	1.001	51.1	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.83e5	1.04	1.01	NO	0.9897	38.10	38.12	NO	1.000	1.000	50.9	102	NO
7	OCDD	4.45e5	9.92e5	0.89	0.88	NO	0.8717	41.06	41.07	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	1.22e5	1.53e6	0.77	0.75	NO	0.8243	25.53	25.55	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	6.27e5	1.27e6	1.55	1.55	NO	0.9626	29.64	29.65	NO	1.000	1.001	51.5	103	NO
10	2,3,4,7,8-HxCDF	6.28e5	1.16e6	1.55	1.56	NO	1.0884	30.69	30.72	NO	1.000	1.001	50.3	101	NO
11	1,2,3,4,7,8-HxCDF	3.72e5	7.87e5	1.24	1.21	NO	0.9535	33.30	33.33	NO	1.000	1.001	49.6	99.2	NO
12	1,2,3,6,7,8-HxCDF	4.23e5	8.37e5	1.24	1.21	NO	1.0080	33.43	33.46	NO	1.000	1.001	50.1	100	NO
13	2,3,4,6,7,8-HxCDF	3.82e5	7.72e5	1.24	1.21	NO	0.9907	34.11	34.13	NO	1.000	1.001	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	3.17e5	6.63e5	1.24	1.24	NO	0.9506	35.11	35.12	NO	1.000	1.000	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.02e5	6.11e5	1.04	1.00	NO	0.9986	36.69	36.71	NO	1.000	1.001	49.5	99.0	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.57e5	1.04	0.99	NO	1.1238	38.73	38.74	NO	1.000	1.000	49.0	97.9	NO
17	OCDF	4.65e5	1.06e6	0.89	0.87	NO	0.8682	41.37	41.37	NO	1.000	1.000	101	101	NO
18	13C-2,3,7,8-TCDD	1.17e6	1.04e6	0.77	0.79	NO	1.1089	26.19	26.20	NO	1.029	1.030	101	101	NO



Reach 201105R1\_1 CAP NUM

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.17e5	1.17e6	0.77	0.76	NO	0.9501	26.23	26.23	NO	1.001	1.001	10.6	106	NO
2	1,2,3,7,8-PeCDD	3.97e5	8.39e5	0.63	0.62	NO	0.8855	30.91	30.92	NO	1.000	1.001	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	3.23e5	6.23e5	1.24	1.26	NO	1.0178	34.24	34.24	NO	1.001	1.001	50.9	102	NO
4	1,2,3,6,7,8-HxCDD	3.49e5	7.44e5	1.24	1.27	NO	0.9145	34.34	34.35	NO	1.000	1.000	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	3.21e5	6.73e5	1.24	1.31	NO	0.9345	34.62	34.63	NO	1.000	1.001	51.1	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.63e5	1.04	1.01	NO	0.8697	38.10	38.12	NO	1.000	1.000	50.9	102	NO
7	OCDD	4.45e5	9.92e5	0.89	0.88	NO	0.8717	41.06	41.07	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	1.22e5	1.53e6	0.77	0.75	NO	0.8243	25.53	25.55	NO	1.000	1.001	97.1	97.1	NO
9	1,2,3,7,8-PeCDF	6.27e5	1.27e6	1.55	1.55	NO	0.9626	29.64	29.65	NO	1.000	1.001	51.5	103	NO
10	1,2,3,4,7,8-PeCDF	8.26e5	1.16e6	1.55	1.58	NO	1.0684	30.69	30.72	NO	1.000	1.001	50.3	101	NO
11	1,2,3,4,7,8-HxCDF	3.72e5	7.67e5	1.24	1.21	NO	0.9535	33.30	33.33	NO	1.000	1.001	49.6	99.2	NO
12	1,2,3,6,7,8-HxCDF	4.23e5	8.37e5	1.24	1.21	NO	1.0080	33.43	33.46	NO	1.000	1.001	50.1	100	NO
13	1,2,3,4,6,7,8-HpCDF	3.82e5	7.72e5	1.24	1.21	NO	0.9907	34.11	34.13	NO	1.000	1.001	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	3.17e5	6.63e5	1.24	1.26	NO	0.9506	35.11	35.12	NO	1.000	1.000	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.02e5	6.11e5	1.04	1.00	NO	0.9986	36.69	36.71	NO	1.000	1.001	49.5	99.0	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.57e5	1.04	0.99	NO	1.1238	38.73	38.74	NO	1.000	1.000	49.0	97.9	NO
17	OCDF	4.85e5	1.06e6	0.89	0.89	NO	0.8682	41.37	41.37	NO	1.000	1.000	101	101	NO
18	1,2,3,7,8-TCDF	1.17e6	1.04e6	0.77	0.79	NO	1.1069	26.19	26.20	NO	1.029	1.030	101	101	NO



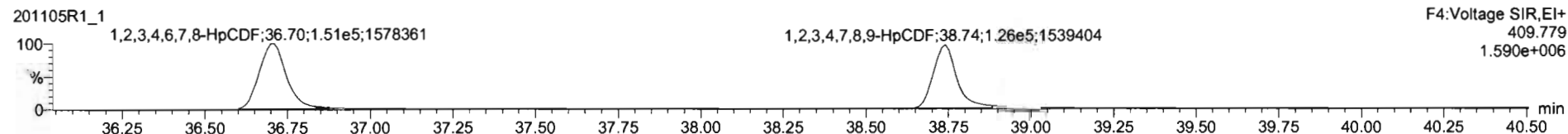
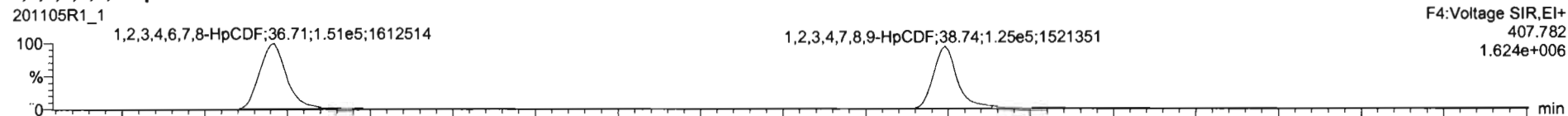


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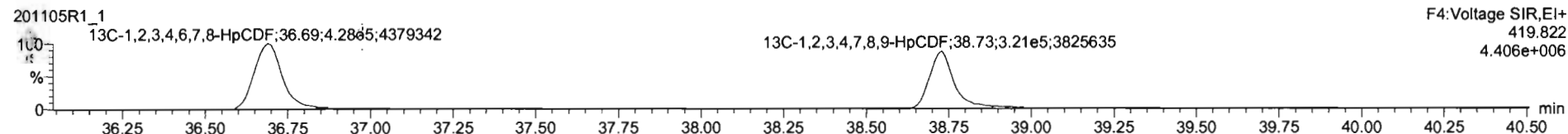
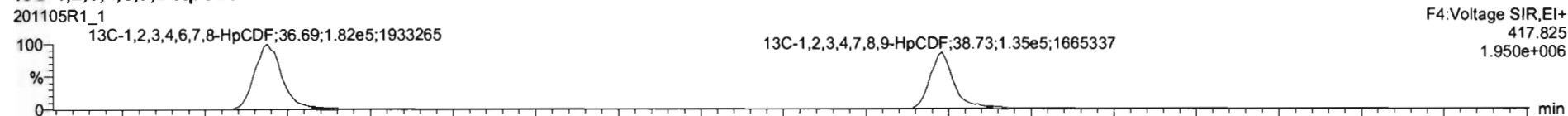
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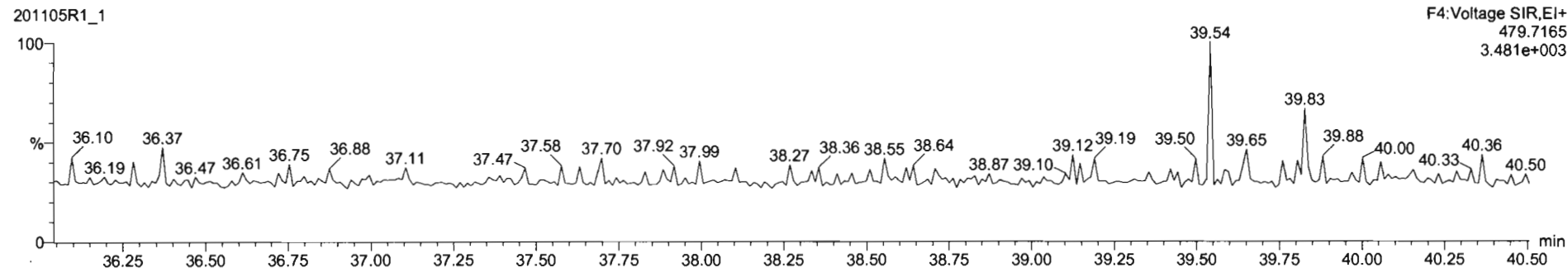
**1,2,3,4,6,7,8-HpCDF**



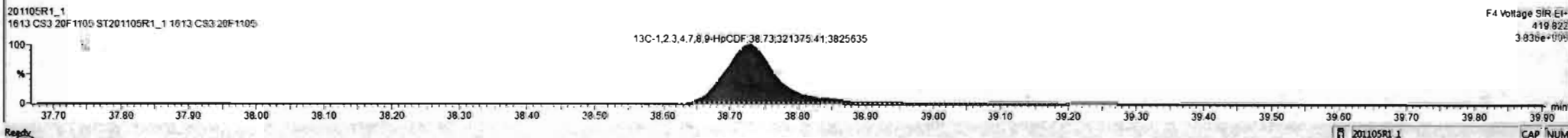
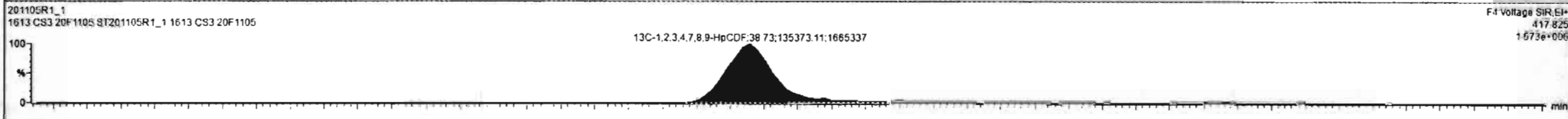
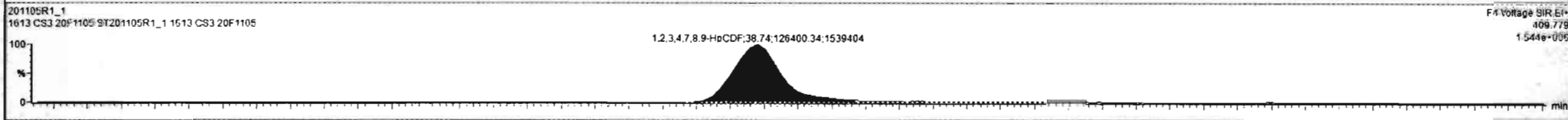
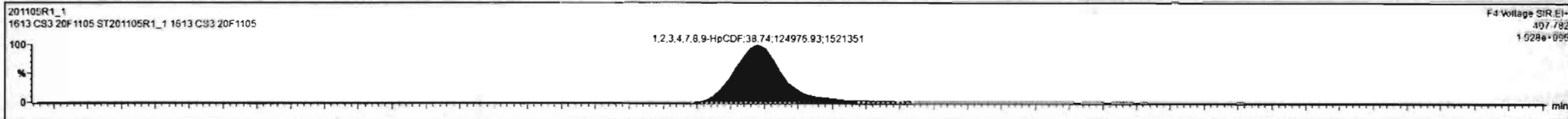
**13C-1,2,3,4,6,7,8-HpCDF**



**DPE4**



#	Name	Reep	IS Reap	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.17e5	1.17e5	0.77	0.76	NO	0.9501	26.23	26.23	NO	1.001	1.001	10.6	106	NO
2	1,2,3,7,8-PeCDD	3.97e5	8.39e5	0.63	0.62	NO	0.8855	30.91	30.92	NO	1.000	1.001	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	3.23e5	6.23e5	1.24	1.26	NO	1.0178	34.24	34.24	NO	1.001	1.001	50.9	102	NO
4	1,2,3,6,7,8-HxCDD	3.49e5	7.44e5	1.24	1.27	NO	0.9145	34.34	34.35	NO	1.000	1.000	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	3.21e5	6.73e5	1.24	1.31	NO	0.9345	34.62	34.63	NO	1.000	1.001	51.1	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.83e5	1.04	1.01	NO	0.8697	38.10	38.12	NO	1.000	1.000	50.9	102	NO
7	OCDD	4.45e5	9.92e5	0.89	0.88	NO	0.8717	41.06	41.07	NO	1.000	1.000	103	103	NO
8	1,2,3,8-TCDF	1.22e5	1.53e5	0.77	0.75	NO	0.8243	25.53	25.55	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	6.27e5	1.27e6	1.55	1.55	NO	0.9626	29.64	29.65	NO	1.000	1.001	51.5	103	NO
10	2,3,4,7,8-PeCDF	8.26e5	1.16e6	1.55	1.56	NO	1.0884	30.59	30.72	NO	1.000	1.001	50.3	101	NO
11	1,2,3,4,7,8-HxCDF	3.72e5	7.87e5	1.24	1.21	NO	0.9535	33.30	33.33	NO	1.000	1.001	49.6	99.2	NO
12	1,2,3,6,7,8-HxCDF	4.23e5	8.37e5	1.24	1.21	NO	1.0080	33.43	33.46	NO	1.000	1.001	50.1	100	NO
13	2,3,4,6,7,8-HxCDF	3.82e5	7.72e5	1.24	1.21	NO	0.9907	34.11	34.13	NO	1.000	1.001	49.9	99.8	NO
14	1,2,3,4,6,7,8-HpCDF	3.17e5	6.63e5	1.24	1.24	NO	0.9506	35.11	35.12	NO	1.000	1.000	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.02e5	6.11e5	1.04	1.00	NO	0.9986	36.69	36.71	NO	1.000	1.001	49.5	99.0	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.57e5	1.00	0.99	NO	1.1238	38.73	38.74	NO	1.000	1.000	49.0	97.9	NO
17	OCDF	4.65e5	1.06e6	0.89	0.87	NO	0.8682	41.37	41.37	NO	1.000	1.000	101	101	NO
18	13C-2,3,7,8-TCDD	1.17e5	1.04e5	0.77	0.79	NO	1.1089	26.19	26.20	NO	1.029	1.020	101	101	NO

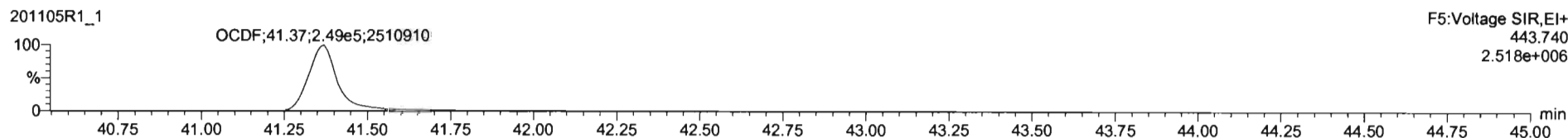
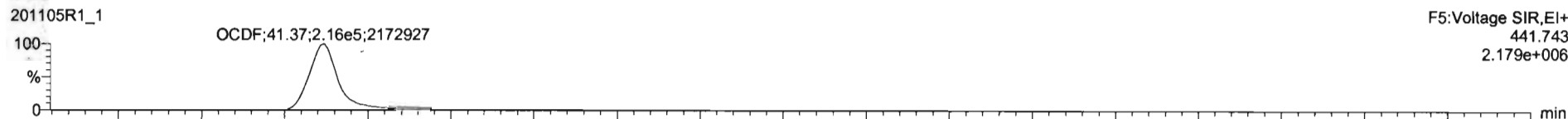


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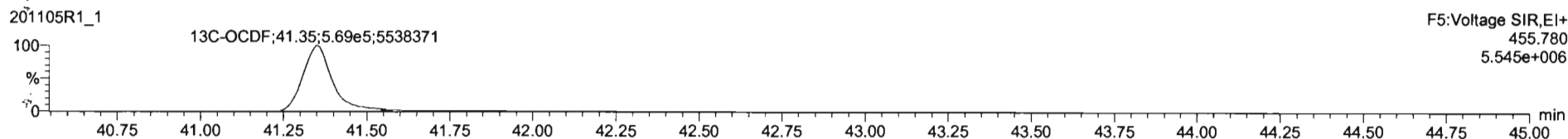
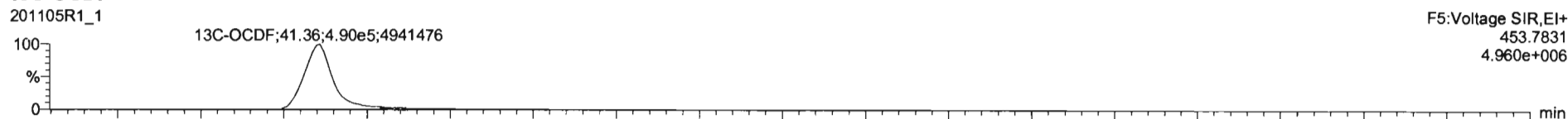
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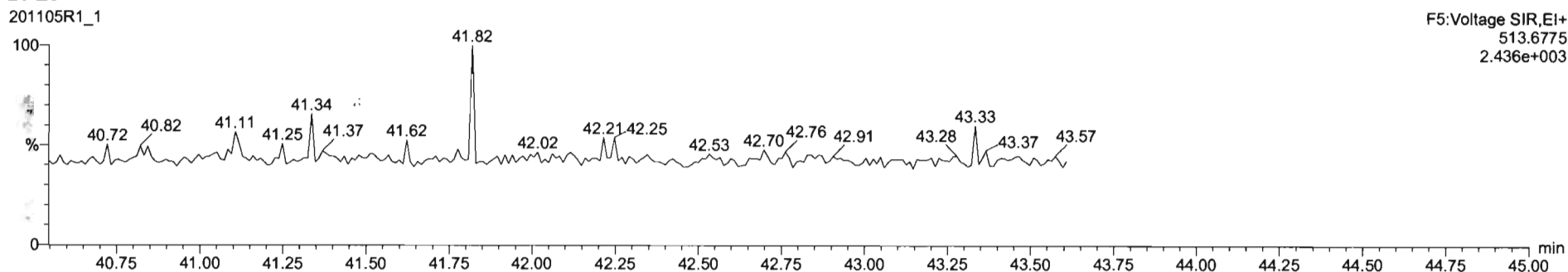
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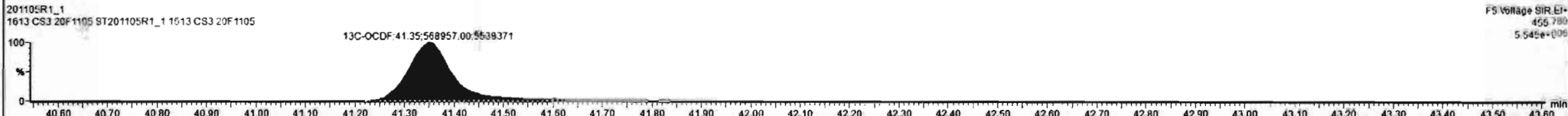
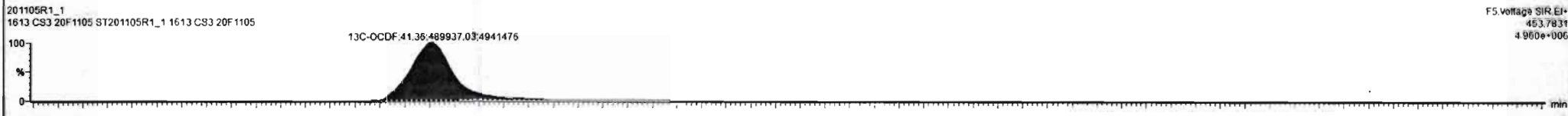
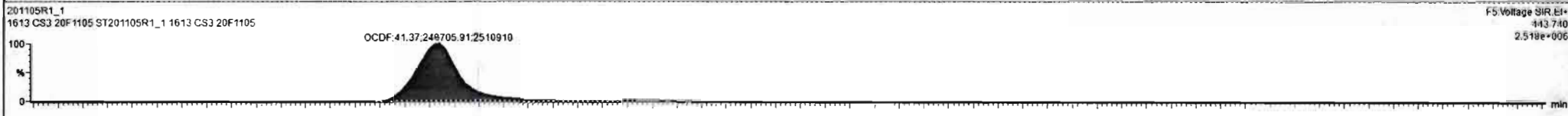
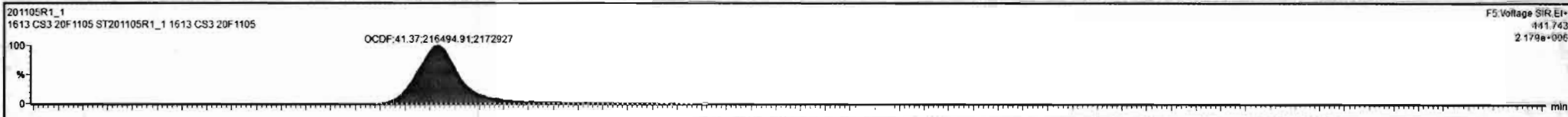
**13C-OCDF**



**DPE5**



#	Name	Reap	# Reap	Pred RA	RA	rtly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rep	STD out
1	2,3,7,8-TCDD	1.17e5	1.17e6	0.77	0.76	NO	0.9501	26.23	26.23	NO	1.001	1.001	10.6	106	NO
2	1,2,3,7,8-PeCDD	3.97e5	8.39e5	0.63	0.62	NO	0.8855	30.91	30.92	NO	1.000	1.001	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	3.23e5	6.23e5	1.24	1.26	NO	1.0178	34.24	34.24	NO	1.001	1.001	50.9	102	NO
4	1,2,3,6,7,8-HxCDD	3.49e5	7.44e5	1.24	1.27	NO	0.9145	34.34	34.35	NO	1.000	1.000	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	3.21e5	6.73e5	1.24	1.31	NO	0.9345	34.62	34.63	NO	1.000	1.001	51.1	102	NO
6	1,2,3,4,6,7,8-HpCDD	2.50e5	5.63e5	1.04	1.01	NO	0.8697	38.10	38.12	NO	1.000	1.000	50.9	102	NO
7	OCDF	4.45e5	9.92e5	0.89	0.88	NO	0.8717	41.06	41.07	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	1.22e5	1.53e6	0.77	0.75	NO	0.8243	25.53	25.55	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	6.27e5	1.27e6	1.55	1.55	NO	0.9625	29.64	29.65	NO	1.000	1.001	51.5	103	NO
10	1,2,3,4,7,8-PeCDF	8.26e5	1.16e6	1.55	1.56	NO	1.0684	30.69	30.72	NO	1.000	1.001	50.3	101	NO
11	1,2,3,4,7,8-HxCDF	3.72e5	7.87e5	1.24	1.21	NO	0.9535	33.30	33.33	NO	1.000	1.001	49.6	99.2	NO
12	1,2,3,6,7,8-HxCDF	4.23e5	8.37e5	1.24	1.21	NO	1.0080	33.43	33.46	NO	1.000	1.001	50.1	100	NO
13	1,2,3,4,6,7,8-HxCDF	3.82e5	7.72e5	1.24	1.21	NO	0.9907	34.11	34.13	NO	1.000	1.001	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	3.17e5	6.63e5	1.24	1.24	NO	0.9506	35.11	35.12	NO	1.000	1.000	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	3.02e5	6.11e5	1.04	1.00	NO	0.9986	36.69	36.71	NO	1.000	1.001	49.5	99.0	NO
16	1,2,3,4,7,8,9-HpCDF	2.51e5	4.57e5	1.04	0.99	NO	1.1238	38.73	38.74	NO	1.000	1.000	49.0	97.9	NO
17	OCDF	4.85e5	1.06e6	0.88	0.87	NO	0.9682	41.37	41.37	NO	1.000	1.000	101	101	NO
18	13C-2,3,7,8-TCDD	1.17e6	1.04e6	0.77	0.79	NO	1.1089	26.19	26.20	NO	1.029	1.030	101	101	NO

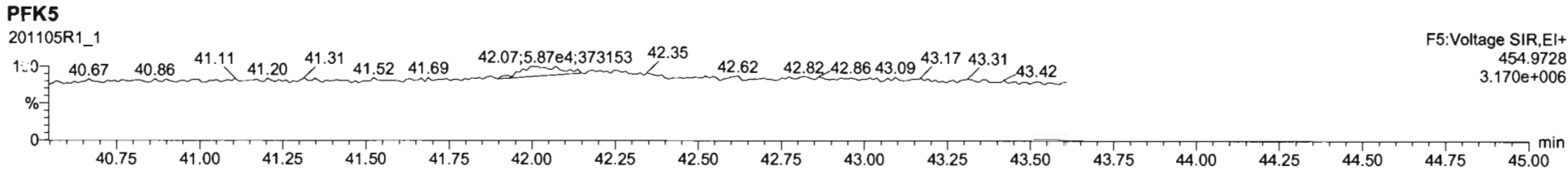
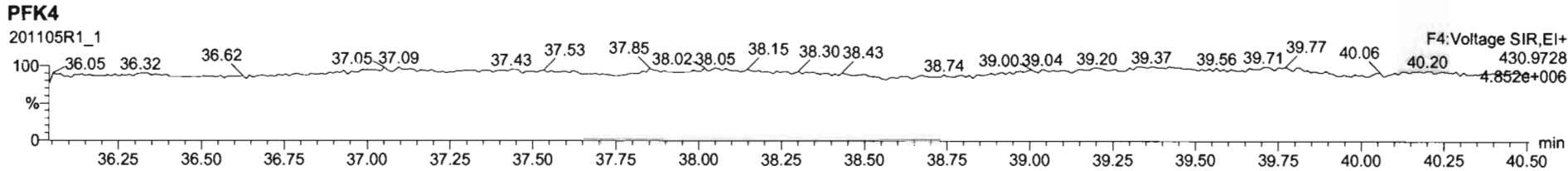
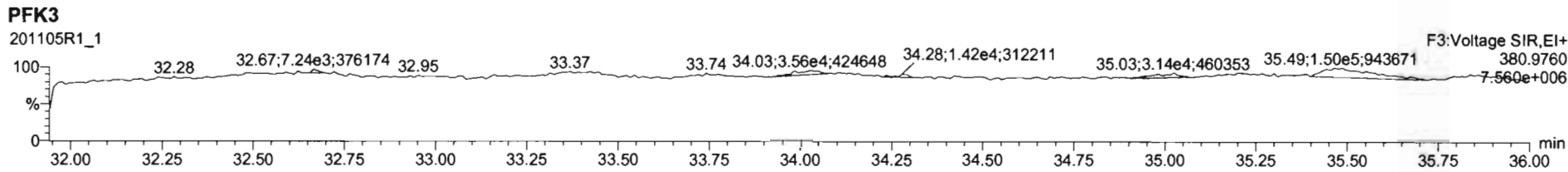
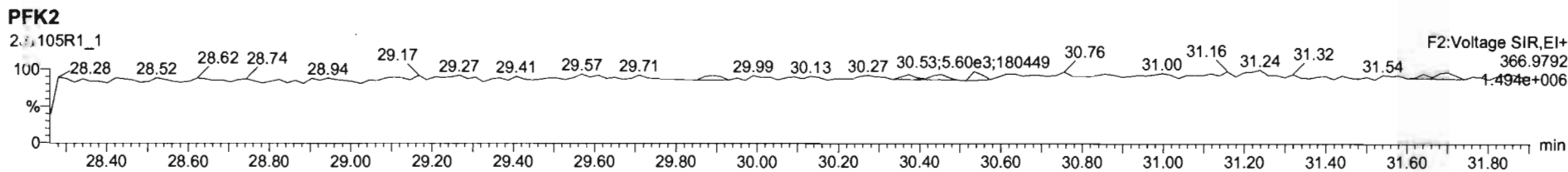
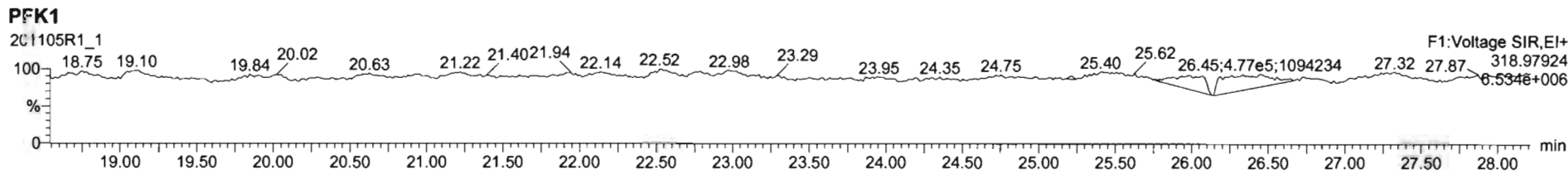


201105R1\_1 CAP NUM

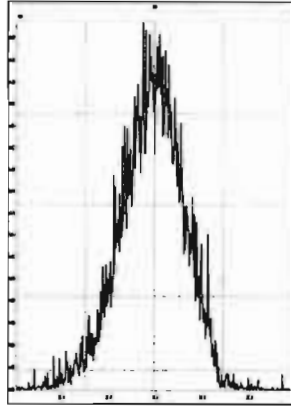
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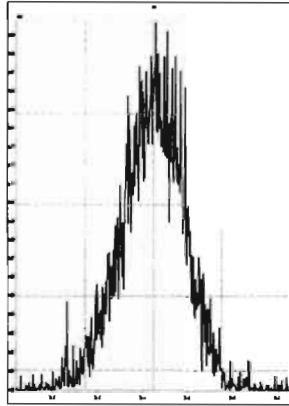
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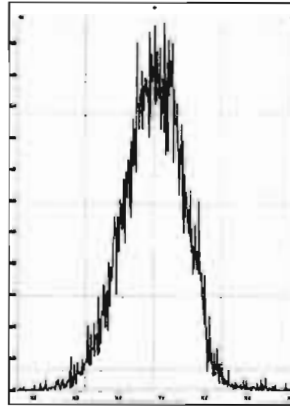
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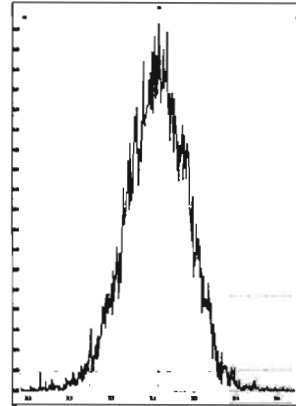
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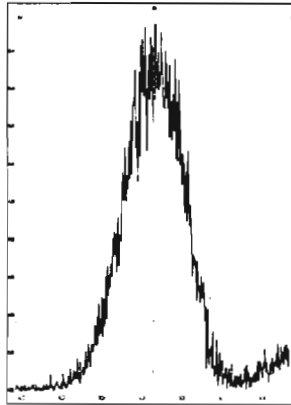
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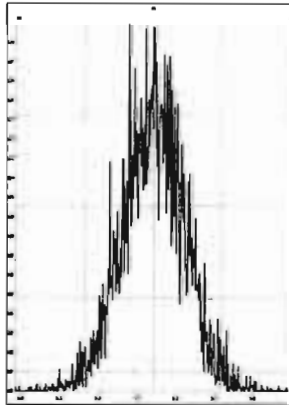
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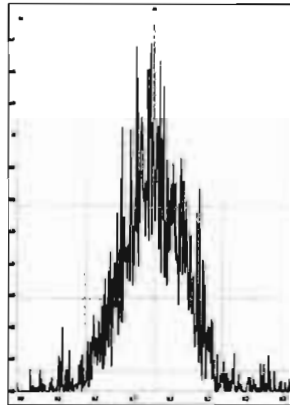
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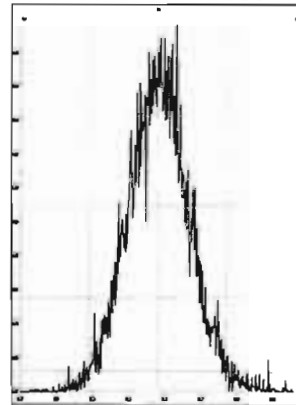
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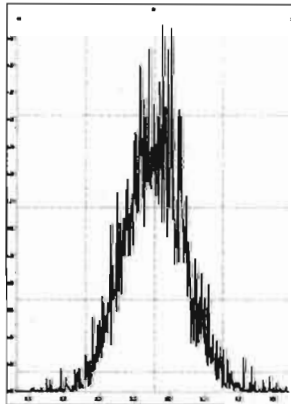
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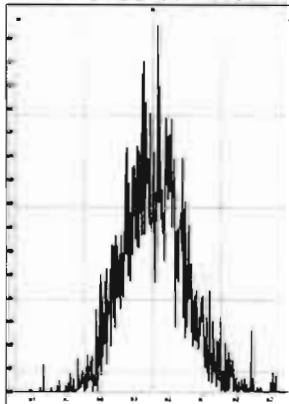
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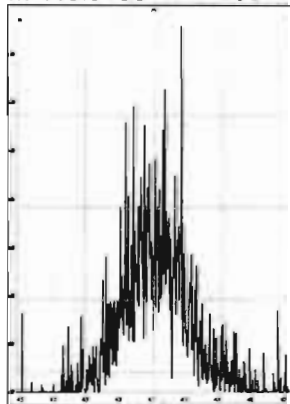
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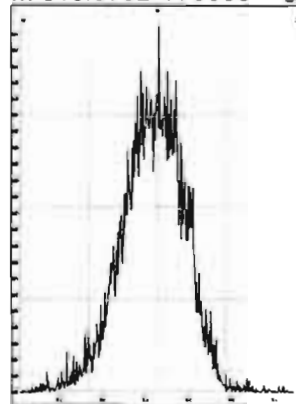
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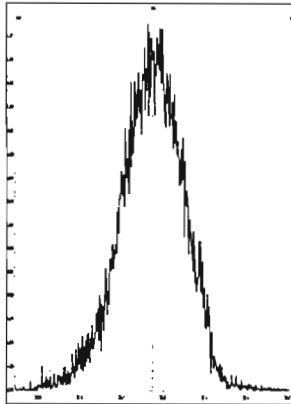
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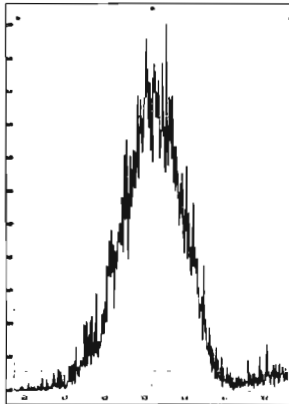
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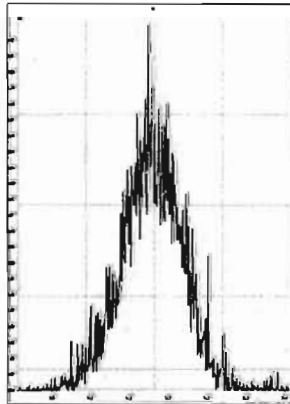
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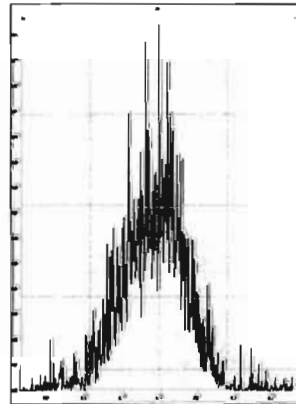
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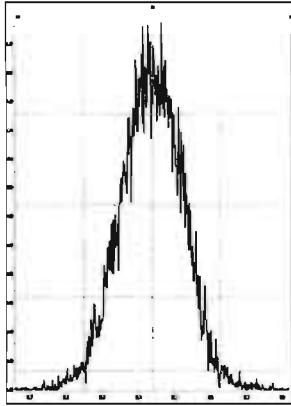


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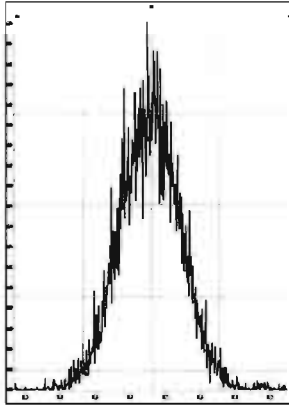


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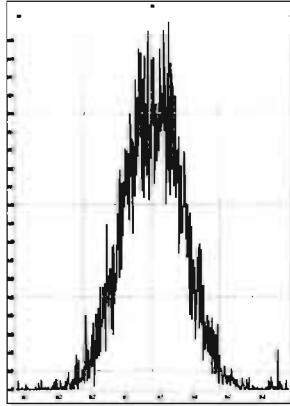
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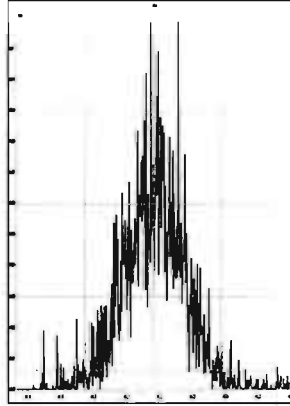
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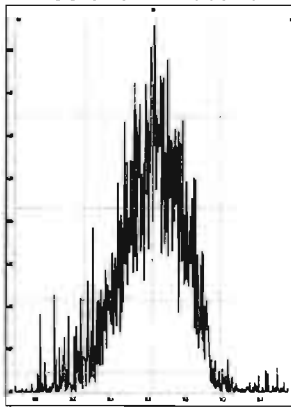
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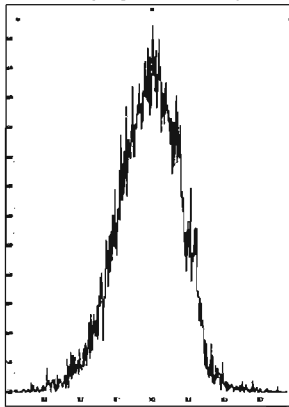
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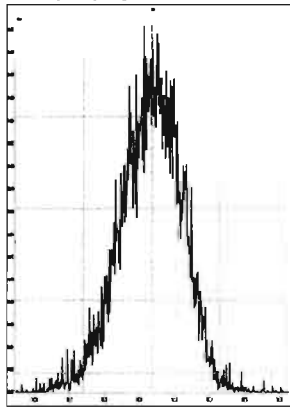
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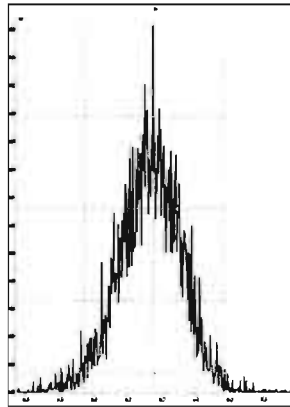
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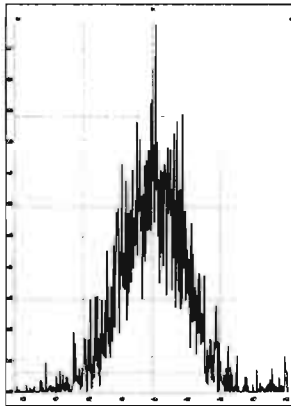
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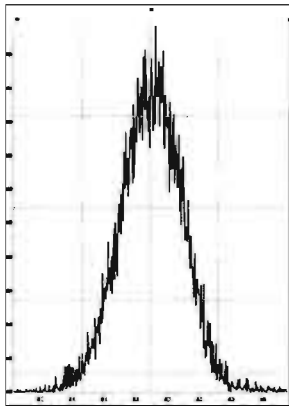
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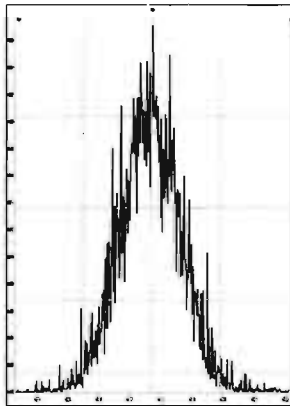
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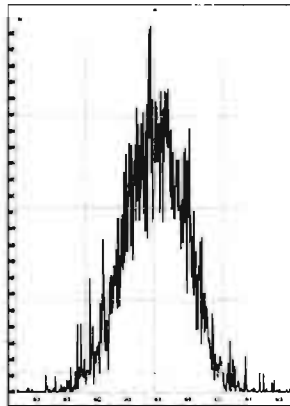
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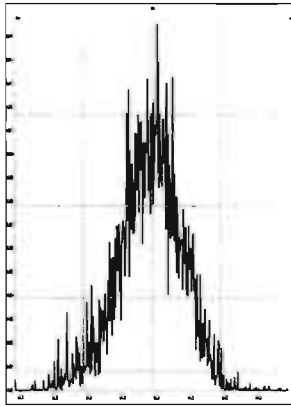
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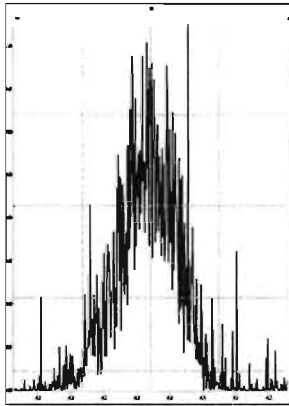
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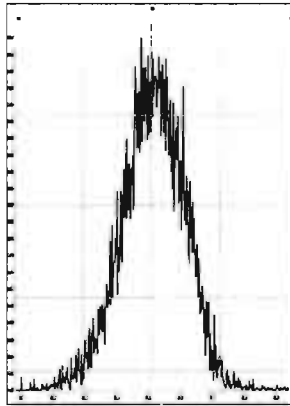
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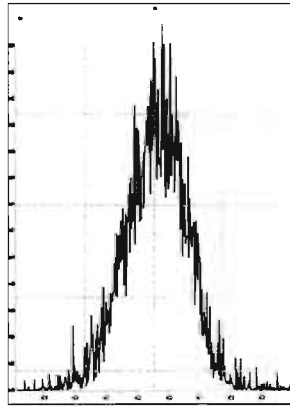
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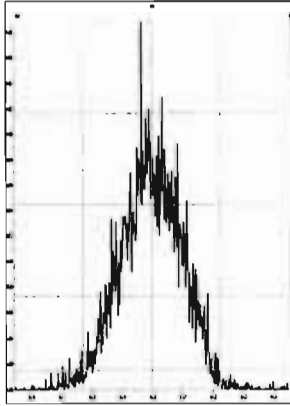


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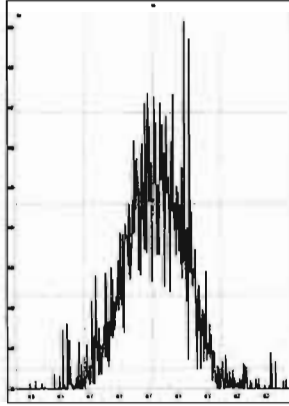


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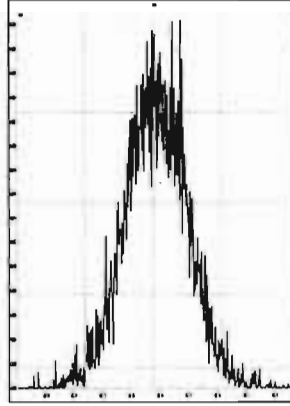
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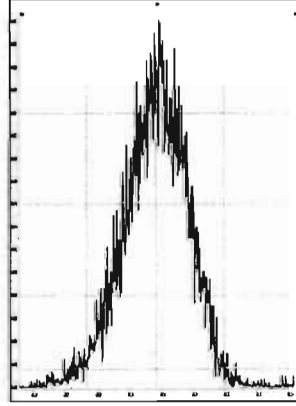
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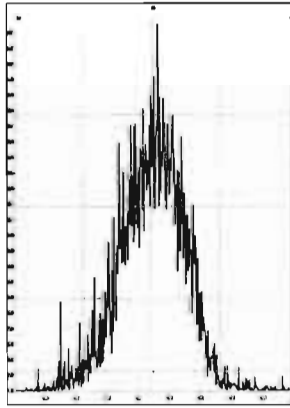
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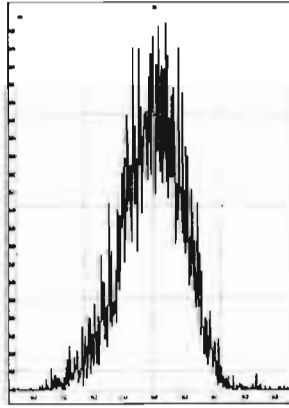
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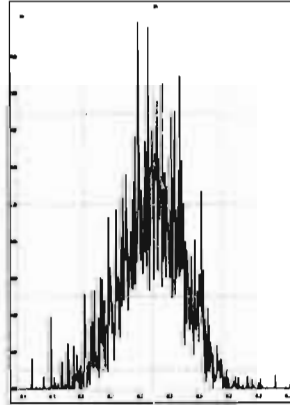
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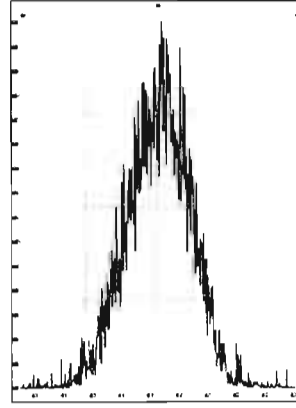
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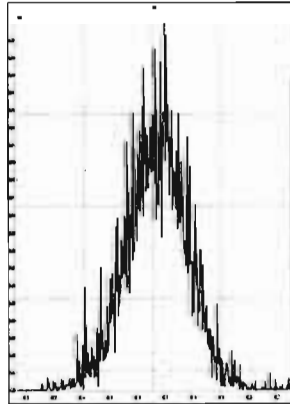
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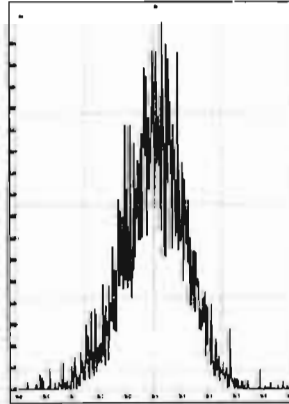
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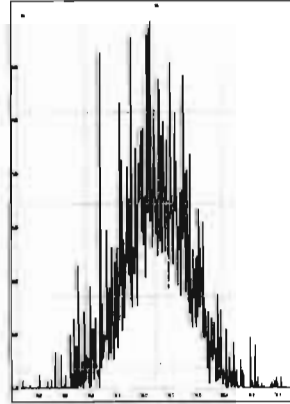
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M 504.9696 R 11574



M 516.9697 R 13033





# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST20110921-1

**Reviewed By:** dy 11-10-2020 HC 11-10-2020

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

**Mass resolution  $\geq$**

5k    6-8K    8K    10K  
 1614   1699   429   1613/1668/8280

**Intergrated peaks display correctly?**

**GC Break <20%**

**8280 CS1 End Standard:**

**- Ratios within limits, S/N <2.5:1, CS1 within 12 hours**

**Comments:**

Dataset: U:\VG12.PRO\Results\201109R1\201109R1-1.qld

Last Altered: Monday, November 09, 2020 8:55:00 AM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 6:52:55 AM Pacific Standard Time

GRB 11/09/2020  
by 11/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201109R1\_1, Date: 09-Nov-2020, Time: 08:06:56, ID: ST201109R1\_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	8.60e4	9.08e5	0.78	NO	0.950	26.20	26.19	NO	1.001	1.001	9.9686	99.7	NO
2	2 1,2,3,7,8-PeCDD	3.27e5	6.64e5	0.62	NO	0.885	30.89	30.88	NO	1.000	1.000	55.494	111	NO
3	3 1,2,3,4,7,8-HxCDD	2.79e5	5.15e5	1.24	NO	1.02	34.22	34.20	NO	1.001	1.000	53.140	106	NO
4	4 1,2,3,6,7,8-HxCDD	2.89e5	6.39e5	1.24	NO	0.915	34.32	34.32	NO	1.000	1.000	49.480	99.0	NO
5	5 1,2,3,7,8,9-HxCDD	2.68e5	5.65e5	1.24	NO	0.934	34.60	34.60	NO	1.000	1.000	50.674	101	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.95e5	4.40e5	1.01	NO	0.870	38.07	38.09	NO	1.000	1.001	50.882	102	NO
7	7 OCDD	3.16e5	6.81e5	0.87	NO	0.872	41.03	41.04	NO	1.000	1.000	106.34	106	NO
8	8 2,3,7,8-TCDF	9.31e4	1.18e6	0.74	NO	0.824	25.48	25.51	NO	1.000	1.001	9.5414	95.4	NO
9	9 1,2,3,7,8-PeCDF	5.08e5	1.03e6	1.55	NO	0.963	29.62	29.63	NO	1.000	1.001	51.219	102	NO
10	10 2,3,4,7,8-PeCDF	5.27e5	9.67e5	1.55	NO	1.07	30.67	30.69	NO	1.000	1.001	51.026	102	NO
11	11 1,2,3,4,7,8-HxCDF	3.18e5	6.71e5	1.20	NO	0.953	33.28	33.29	NO	1.000	1.000	49.747	99.5	NO
12	12 1,2,3,6,7,8-HxCDF	3.52e5	7.20e5	1.19	NO	1.01	33.41	33.43	NO	1.000	1.001	48.468	96.9	NO
13	13 2,3,4,6,7,8-HxCDF	3.23e5	6.67e5	1.20	NO	0.991	34.08	34.10	NO	1.000	1.001	48.918	97.8	NO
14	14 1,2,3,7,8,9-HxCDF	2.58e5	5.48e5	1.20	NO	0.951	35.08	35.10	NO	1.000	1.001	49.650	99.3	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.37e5	4.86e5	1.00	NO	0.999	36.67	36.69	NO	1.000	1.001	48.887	97.8	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.87e5	3.38e5	0.99	NO	1.12	38.71	38.72	NO	1.000	1.000	49.216	98.4	NO
17	17 OCDF	3.41e5	7.84e5	0.87	NO	0.868	41.33	41.34	NO	1.000	1.000	100.34	100	NO
18	18 13C-2,3,7,8-TCDD	9.08e5	7.54e5	0.81	NO	1.11	26.15	26.17	NO	1.029	1.030	108.59	109	NO
19	19 13C-1,2,3,7,8-PeCDD	6.64e5	7.54e5	0.63	NO	0.859	30.76	30.88	NO	1.211	1.215	102.60	103	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.15e5	7.18e5	1.27	NO	0.700	34.17	34.19	NO	1.013	1.014	102.51	103	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.39e5	7.18e5	1.27	NO	0.833	34.30	34.31	NO	1.017	1.018	106.93	107	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.65e5	7.18e5	1.27	NO	0.762	34.57	34.59	NO	1.025	1.026	103.30	103	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.40e5	7.18e5	1.05	NO	0.650	38.00	38.07	NO	1.127	1.129	94.301	94.3	NO
24	24 13C-OCDD	6.81e5	7.18e5	0.90	NO	0.539	40.93	41.03	NO	1.214	1.217	175.87	87.9	NO
25	25 13C-2,3,7,8-TCDF	1.18e6	1.20e6	0.77	NO	0.981	25.48	25.48	NO	1.003	1.003	100.88	101	NO
26	26 13C-1,2,3,7,8-PeCDF	1.03e6	1.20e6	1.59	NO	0.792	29.52	29.61	NO	1.162	1.166	108.91	109	NO
27	27 13C-2,3,4,7,8-PeCDF	9.67e5	1.20e6	1.61	NO	0.778	30.58	30.67	NO	1.204	1.207	103.98	104	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.71e5	7.18e5	0.50	NO	0.954	33.27	33.28	NO	0.987	0.987	98.041	98.0	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.20e5	7.18e5	0.51	NO	1.01	33.41	33.41	NO	0.991	0.991	99.721	99.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.67e5	7.18e5	0.50	NO	0.921	34.07	34.08	NO	1.010	1.011	100.88	101	NO

Dataset: U:\VG12.PRO\Results\201109R1\201109R1-1.qld

Last Altered: Monday, November 09, 2020 8:55:00 AM Pacific Standard Time  
 Printed: Tuesday, November 10, 2020 6:52:55 AM Pacific Standard Time

Name: 201109R1\_1, Date: 09-Nov-2020, Time: 08:06:56, ID: ST201109R1\_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
31	31 13C-1,2,3,7,8,9-HxCDF	5.48e5	7.18e5	0.50	NO	0.803	35.06	35.08	NO	1.040	1.040	94.912	94.9	NO
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.86e5	7.18e5	0.43	NO	0.735	36.63	36.67	NO	1.086	1.087	92.067	92.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.38e5	7.18e5	0.43	NO	0.568	38.61	38.71	NO	1.145	1.148	82.831	82.8	NO
34	34 13C-OCDF	7.84e5	7.18e5	0.89	NO	0.629	41.22	41.33	NO	1.222	1.226	173.40	86.7	NO
35	35 37Cl-2,3,7,8-TCDD	9.42e4	7.54e5			1.09	26.17	26.19	NO	1.030	1.031	11.484	115	NO
36	36 13C-1,2,3,4-TCDD	7.54e5	7.54e5	0.80	NO	1.00	25.43	25.40	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.20e6	1.20e6	0.79	NO	1.00	24.13	23.91	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.18e5	7.18e5	0.50	NO	1.00	33.84	33.72	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, November 10, 2020 7:00:51 AM Pacific Standard Time

Printed: Tuesday, November 10, 2020 7:00:57 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

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

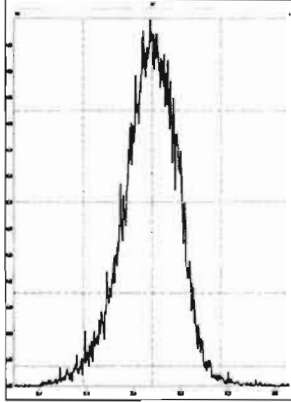
	Name	ID	Acq.Date	Acq.Time
1	201109R1_1	ST201109R1_1 1613 CS3 20F1105	09-Nov-20	08:06:56
2	201109R1_2	TCDF CPSM	09-Nov-20	08:52:23
3	201109R1_3	SOLVENT BLANK	09-Nov-20	09:37:17
4	201109R1_4	2002157-02 USMPDI-033SG-201008 25.63	09-Nov-20	10:22:09
5	201109R1_5	2002157-03 USMPDI-038SG-201008 27.57	09-Nov-20	11:07:03
6	201109R1_6	2002157-04 USMPDI-044SG-201008 27.28	09-Nov-20	11:51:58
7	201109R1_7	2002157-05 USMPDI-049SG-201008 27.68	09-Nov-20	12:36:50
8	201109R1_8	2002157-06 USMPDI-052SG-201008 26.46	09-Nov-20	13:21:45
9	201109R1_9	2002157-07 USMPDI-053SG-201008 21.07	09-Nov-20	14:06:39
10	201109R1_10			
11	201109R1_11	2002171-01 USMPDI-041SG-201009 28.84	09-Nov-20	15:35:10
12	201109R1_12	2002171-02 USMPDI-042SG-201009 27.07	09-Nov-20	16:20:05
13	201109R1_13	2002171-03 USMPDI-043SG-201009 28.52	09-Nov-20	17:04:54
14	201109R1_14	2002171-04 USMPDI-047SG-201009 26.9	09-Nov-20	17:49:45
15	201109R1_15	2002171-05 USMPDI-050SG-201009 29.13	09-Nov-20	18:34:36

(A) INST. PAUSED, SAMPLE RE-INJECTED IMMEDIATELY AFTER.  
GRB 11/10/2020

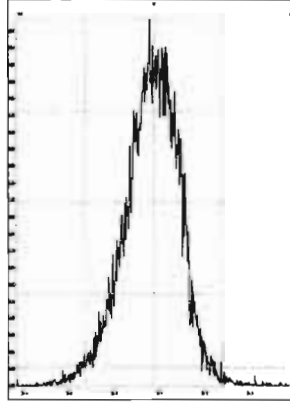
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, November 09, 2020 07:59:00 Pacific Standard Time

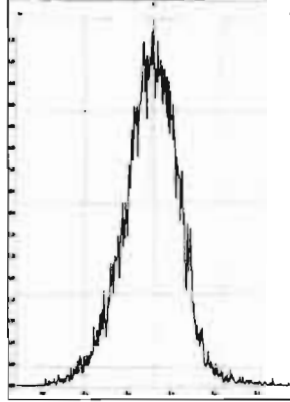
M 292.9824 R 11110



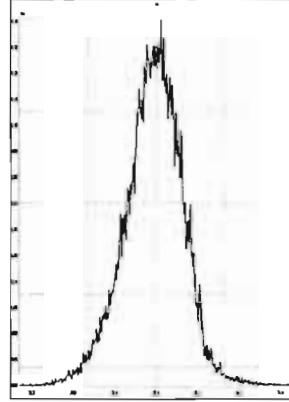
M 304.9824 R 11850



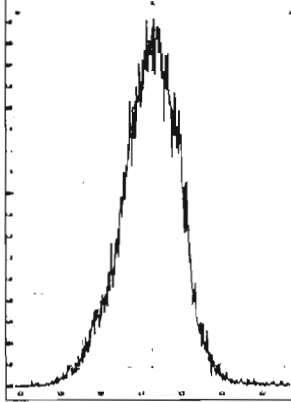
M 318.9792 R 10868



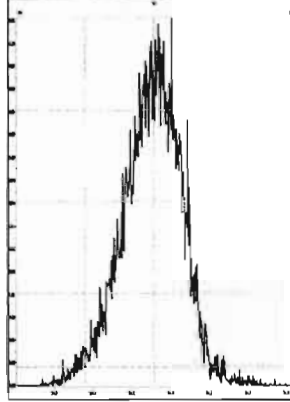
M 330.9792 R 10242



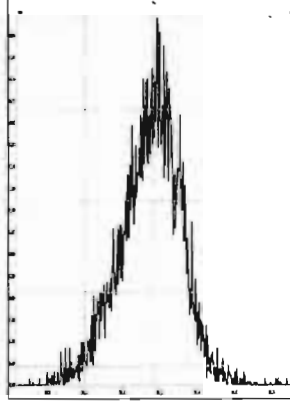
M 342.9792 R 10245



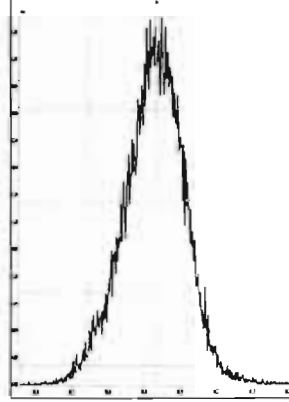
M 354.9792 R 10417



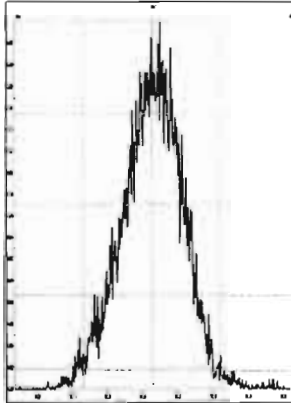
M 366.9792 R 10779



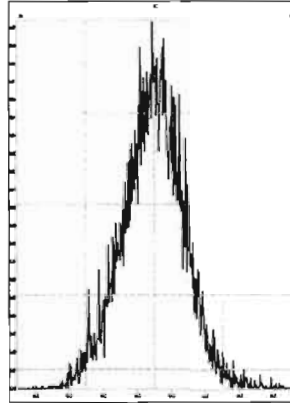
M 380.9760 R 10077



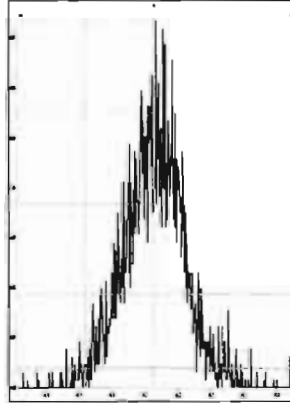
M 392.9760 R 10592



M 404.9760 R 10122



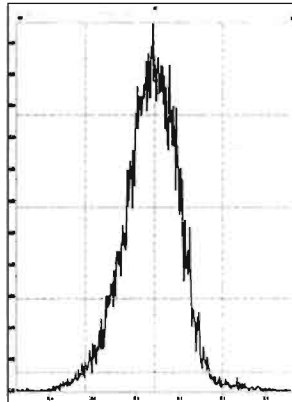
M 416.9760 R 10872



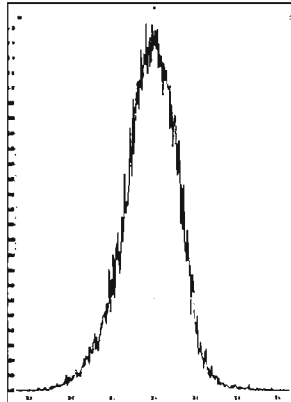
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, November 09, 2020 08:01:10 Pacific Standard Time

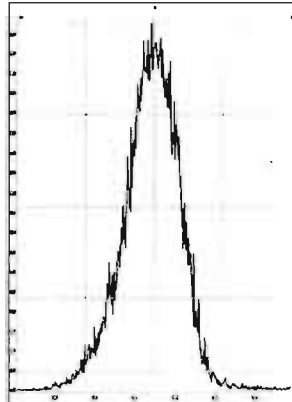
M 318.9792 R 11737



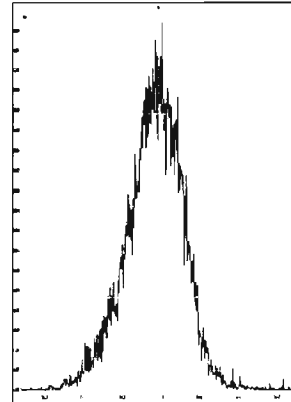
M 330.9792 R 10867



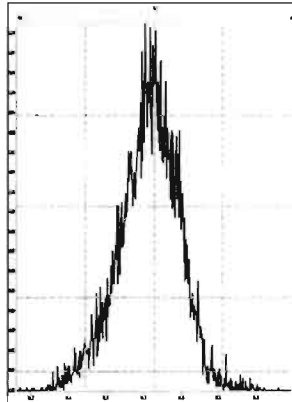
M 342.9792 R 10593



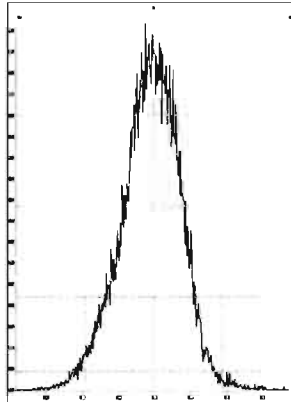
M 354.9792 R 10164



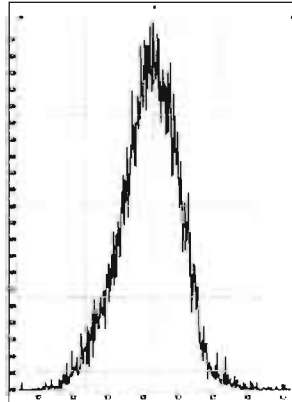
M 366.9792 R 10245



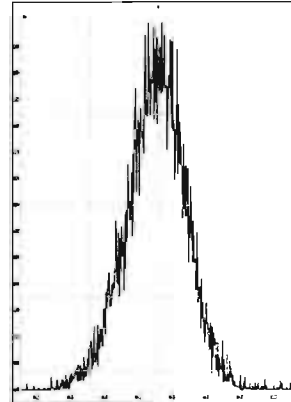
M 380.9760 R 10042



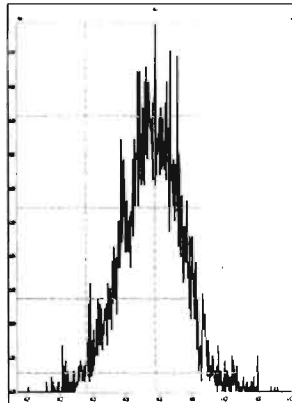
M 392.9760 R 10548



M 404.9760 R 11208



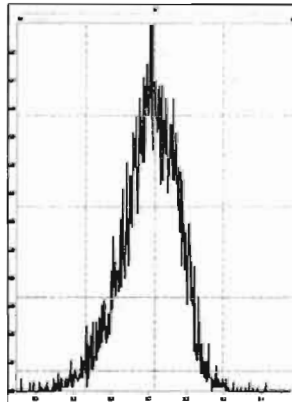
M 416.9760 R 10416



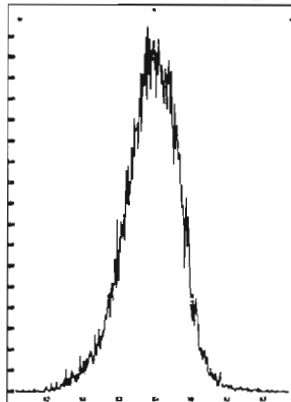
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Printed: Monday, November 09, 2020 08:02:03 Pacific Standard Time

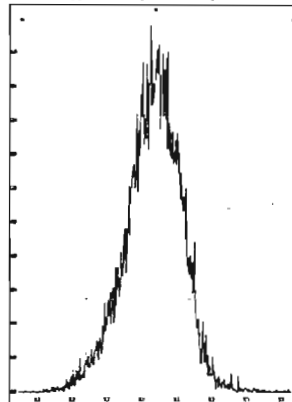
M 366.9792 R 11520



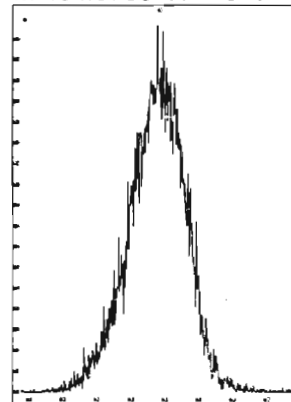
M 380.9760 R 11015



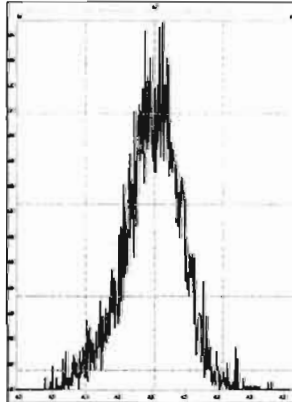
M 392.9760 R 10593



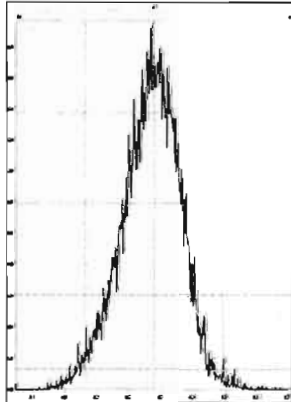
M 404.9760 R 11310



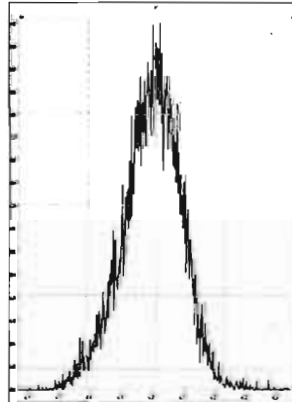
M 416.9760 R 11848



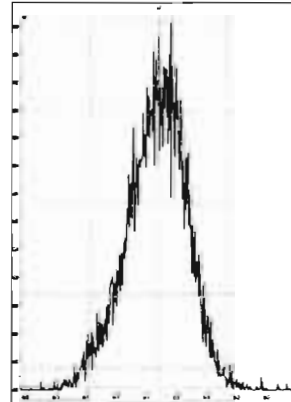
M 430.9728 R 10731



M 442.9728 R 10288



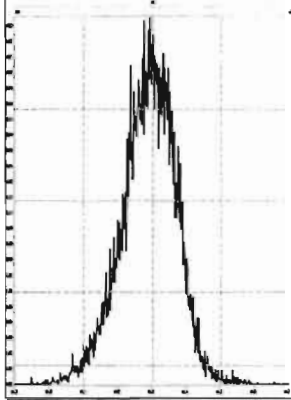
M 454.9728 R 10202



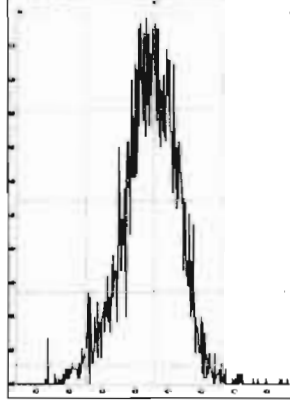
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Printed: Monday, November 09, 2020 08:02:31 Pacific Standard Time

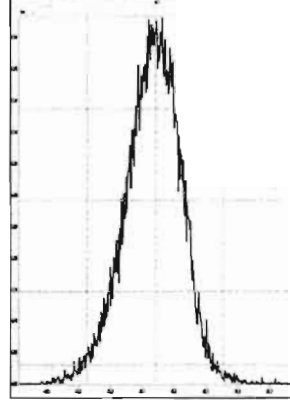
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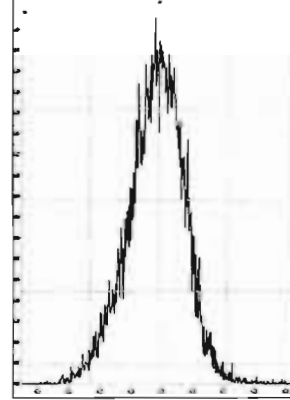
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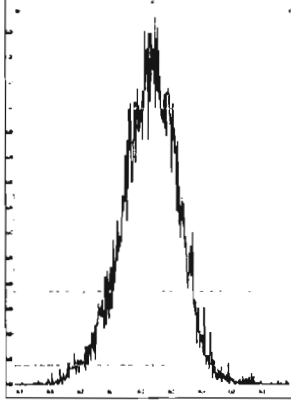
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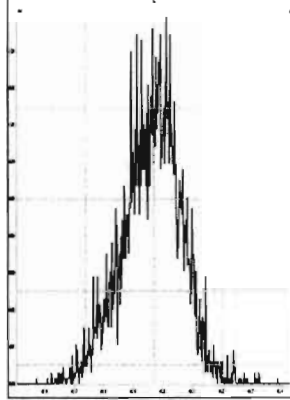
M 442.9728 R 11112



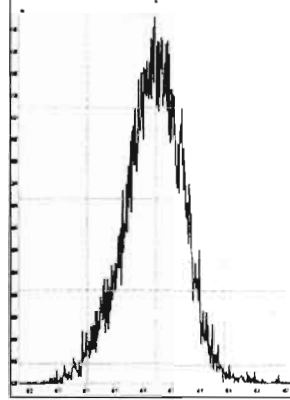
M 454.9728 R 10916



M 466.9728 R 10285



M 480.9696 R 10329

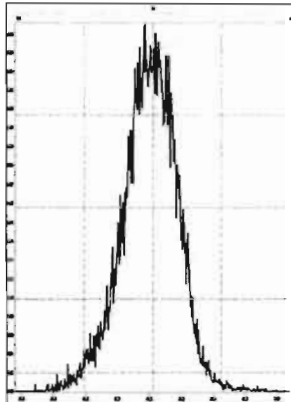




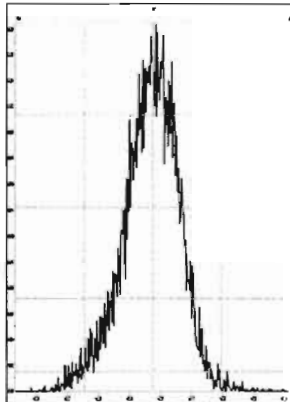
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Printed: Monday, November 09, 2020 08:03:46 Pacific Standard Time

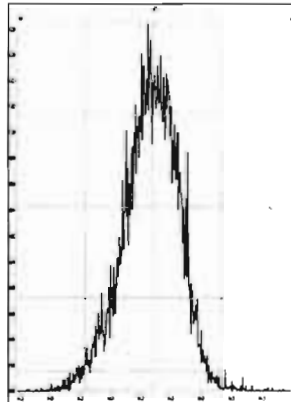
M 430.9728 R 10638



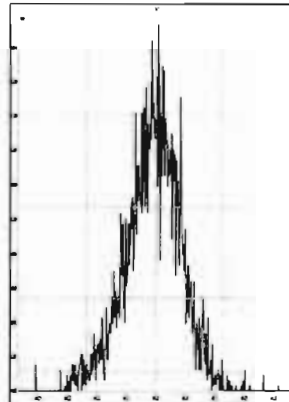
M 442.9728 R 10963



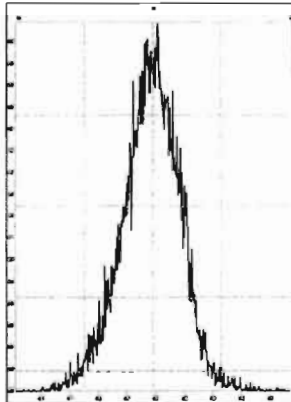
M 454.9728 R 10917



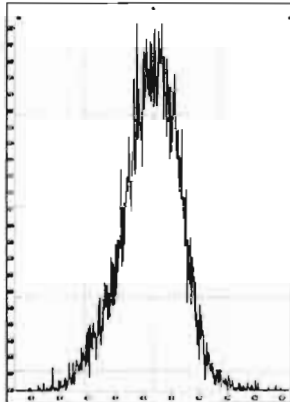
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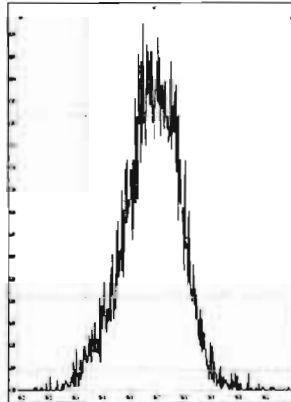
M 480.9696 R 10457



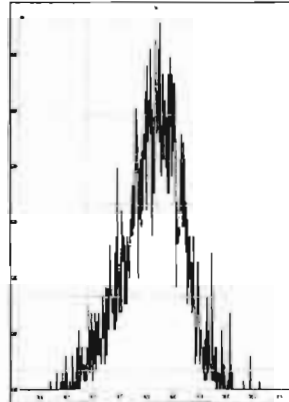
M 492.9696 R 11964



M 504.9696 R 10776



M 516.9697 R 12317



Dataset: Untitled

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Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201109R1\_1, Date: 09-Nov-2020, Time: 08:06:56, ID: ST201109R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.39
2	2 1,2,8,9-TCDD (Last)	27.07
3	3 1,2,4,7,9-PeCDD (First)	28.62
4	4 1,2,3,8,9-PeCDD (Last)	31.24
5	5 1,2,4,6,7,9-HxCDD (First)	32.57
6	6 1,2,3,7,8,9-HxCDD (Last)	34.60
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.07
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.09
9	9 1,3,6,8-TCDF (First)	20.15
10	10 1,2,8,9-TCDF (Last)	27.40
11	11 1,3,4,6,8-PeCDF (First)	26.97
12	12 1,2,3,8,9-PeCDF (Last)	31.60
13	13 1,2,3,4,6,8-HxCDF (First)	32.03
14	14 1,2,3,7,8,9-HxCDF (Last)	35.10
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.69
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.72

Dataset: Untitled

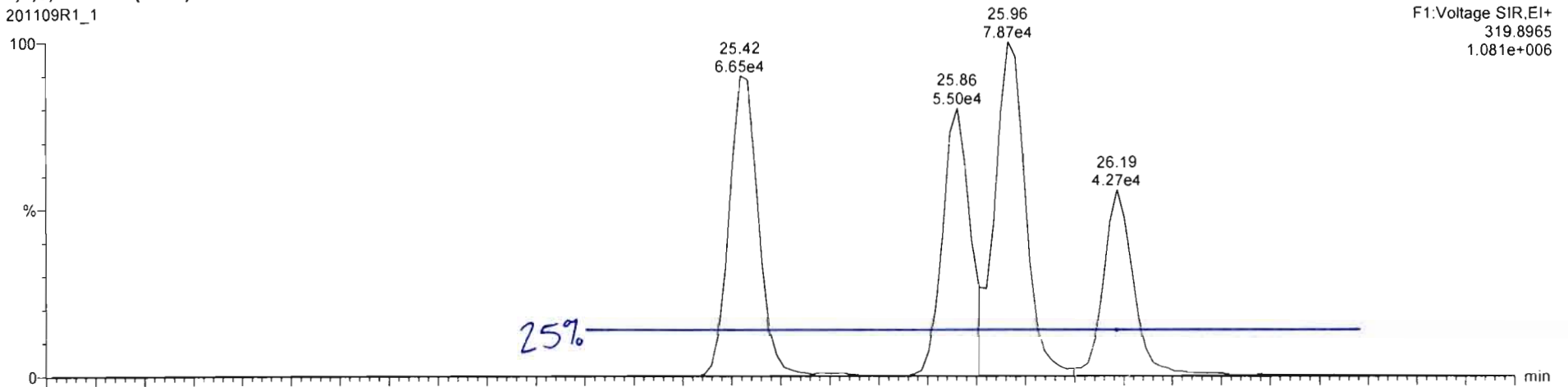
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GRB  
dy 11/09/2020  
11/10/2020

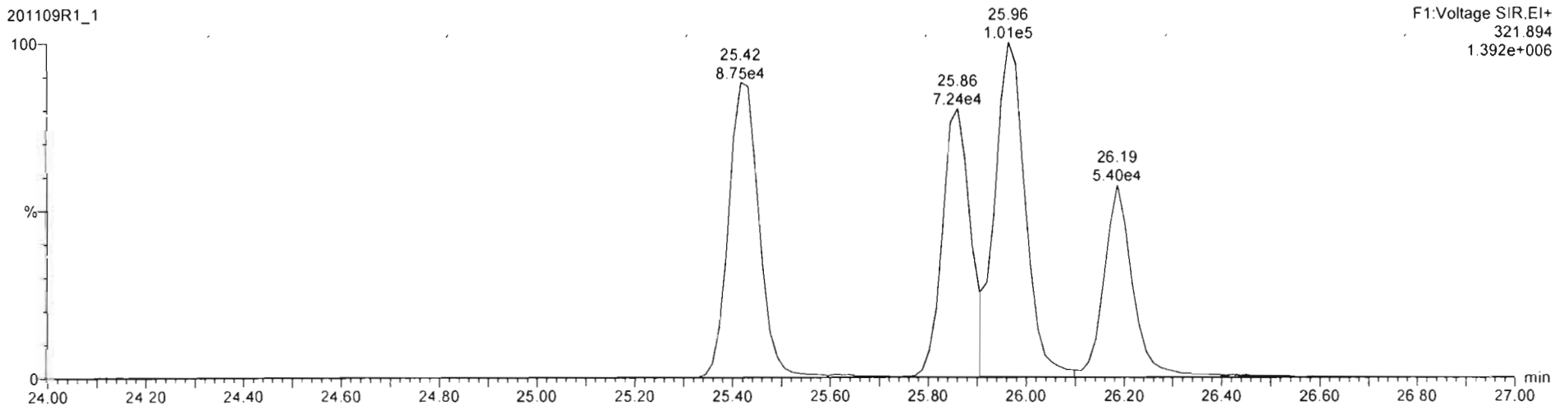
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Name: 201109R1\_1, Date: 09-Nov-2020, Time: 08:06:56, ID: ST201109R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

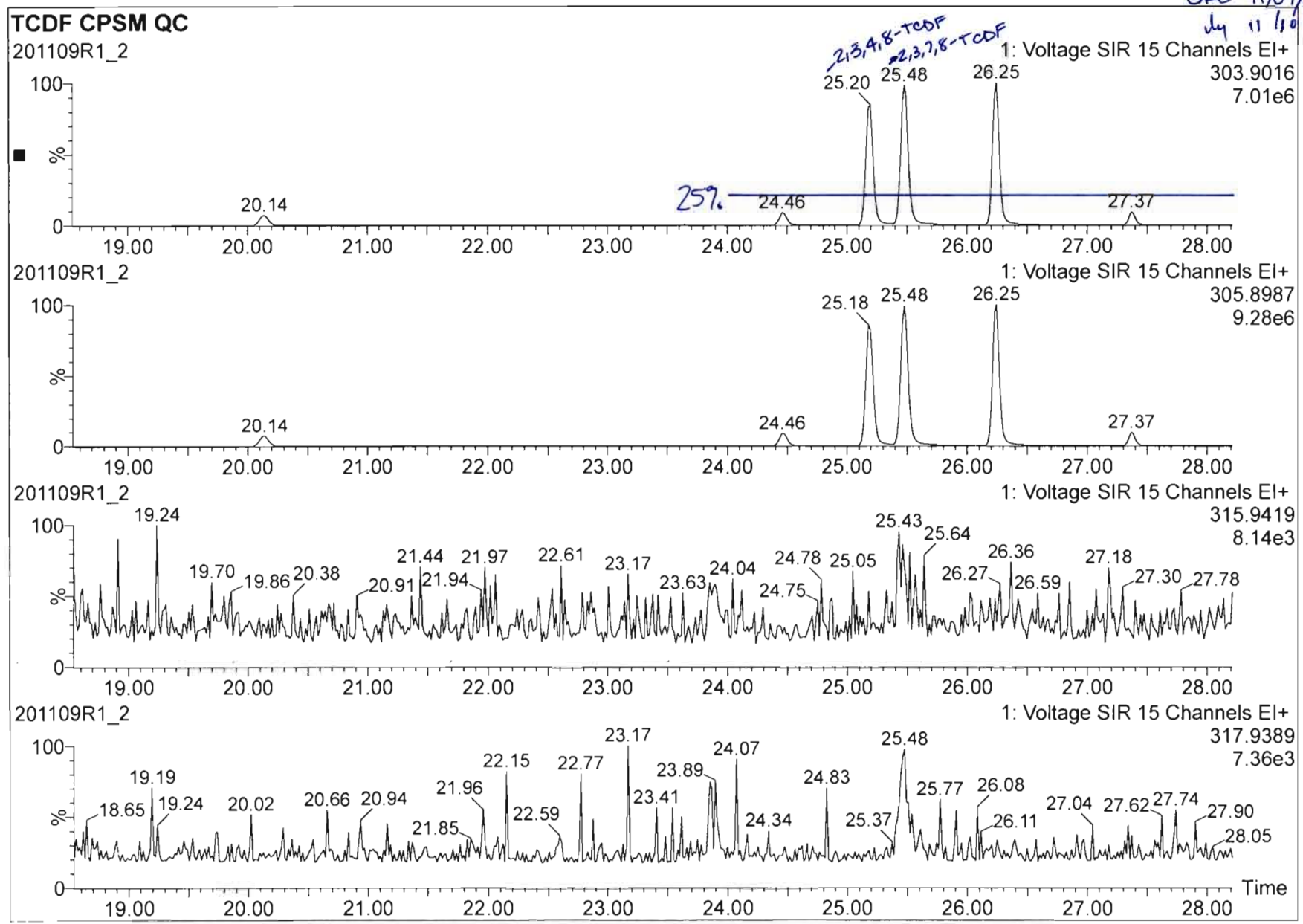
1,3,6,8-TCDD (First)  
201109R1\_1



201109R1\_1



GRB 11/09/2020  
July 11, 150/2020



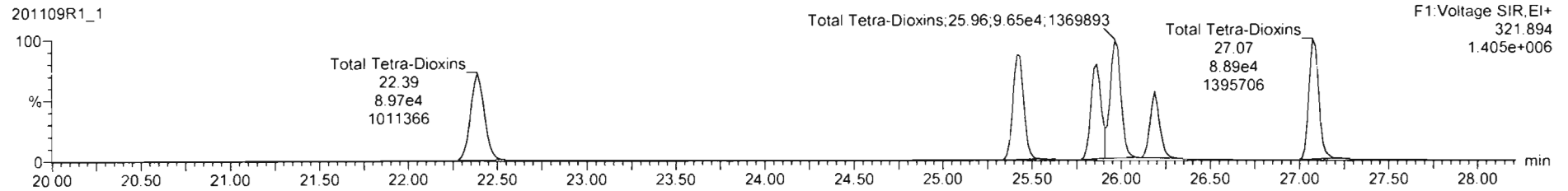
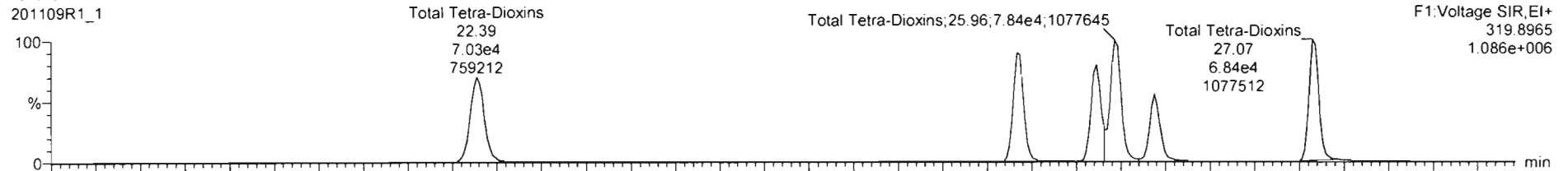
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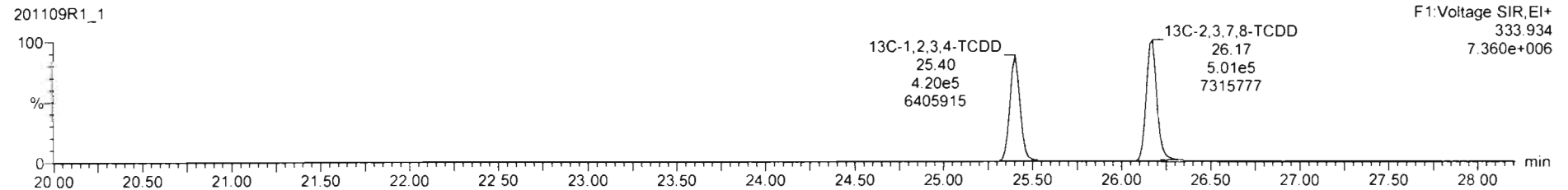
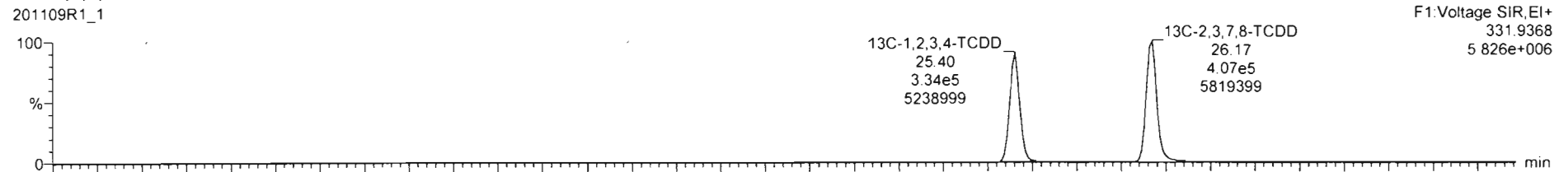
Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50  
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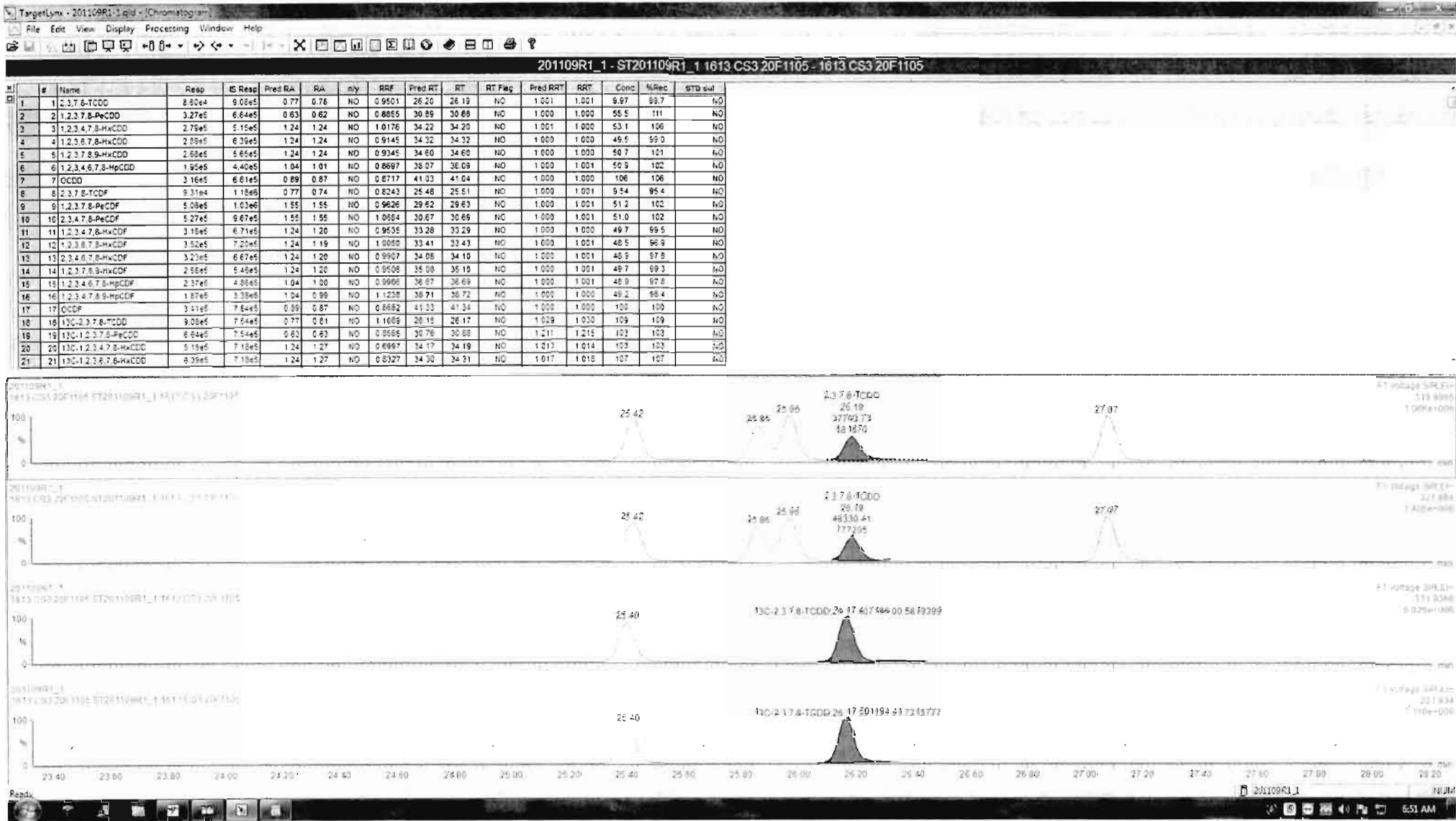
Name: 201109R1\_1, Date: 09-Nov-2020, Time: 08:06:56, ID: ST201109R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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



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





Dataset: Untitled

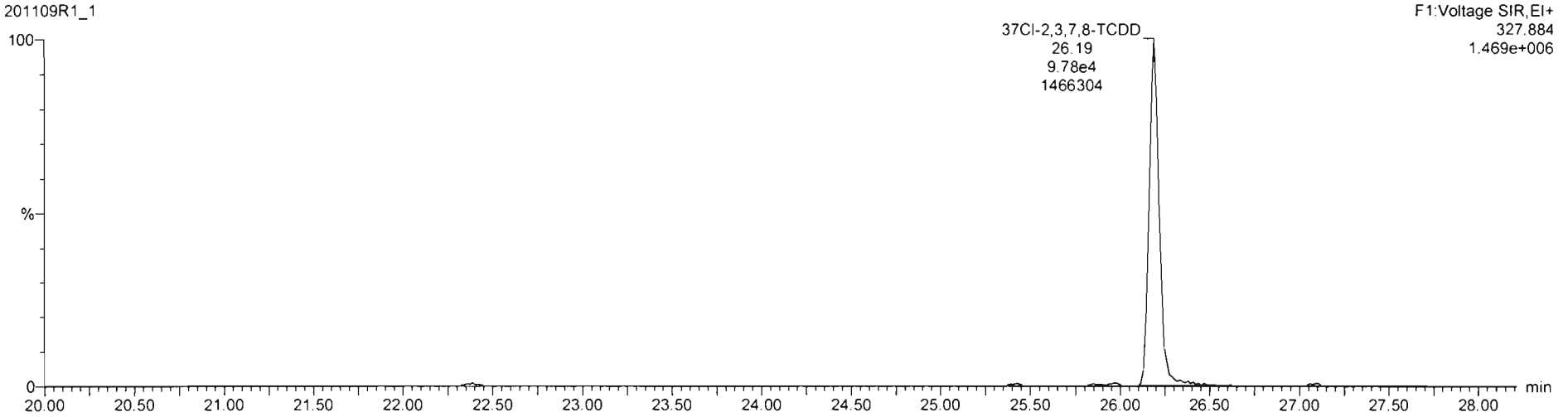
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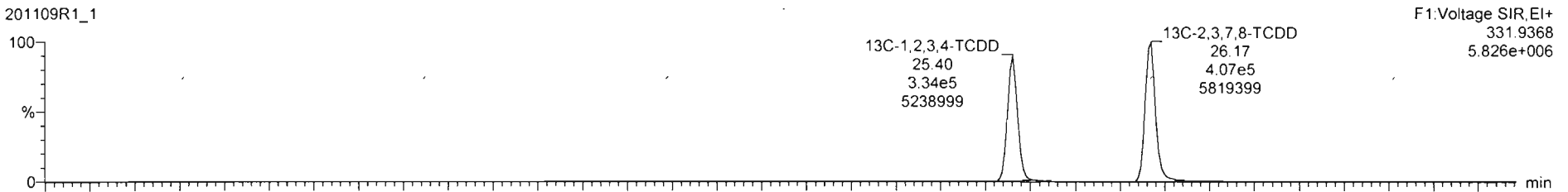
**37Cl-2,3,7,8-TCDD**

201109R1\_1

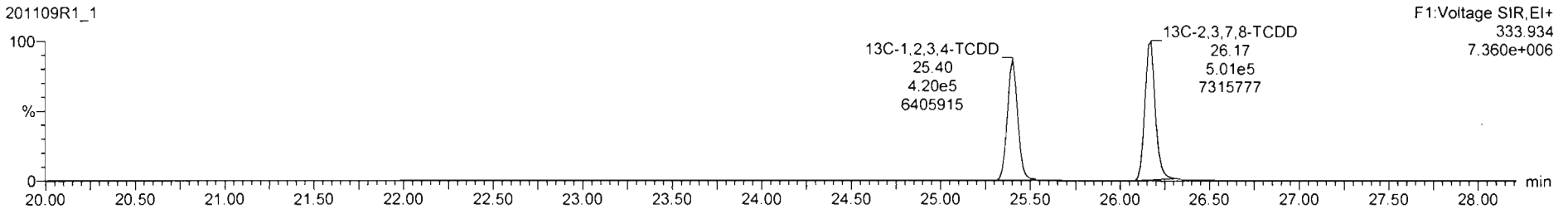


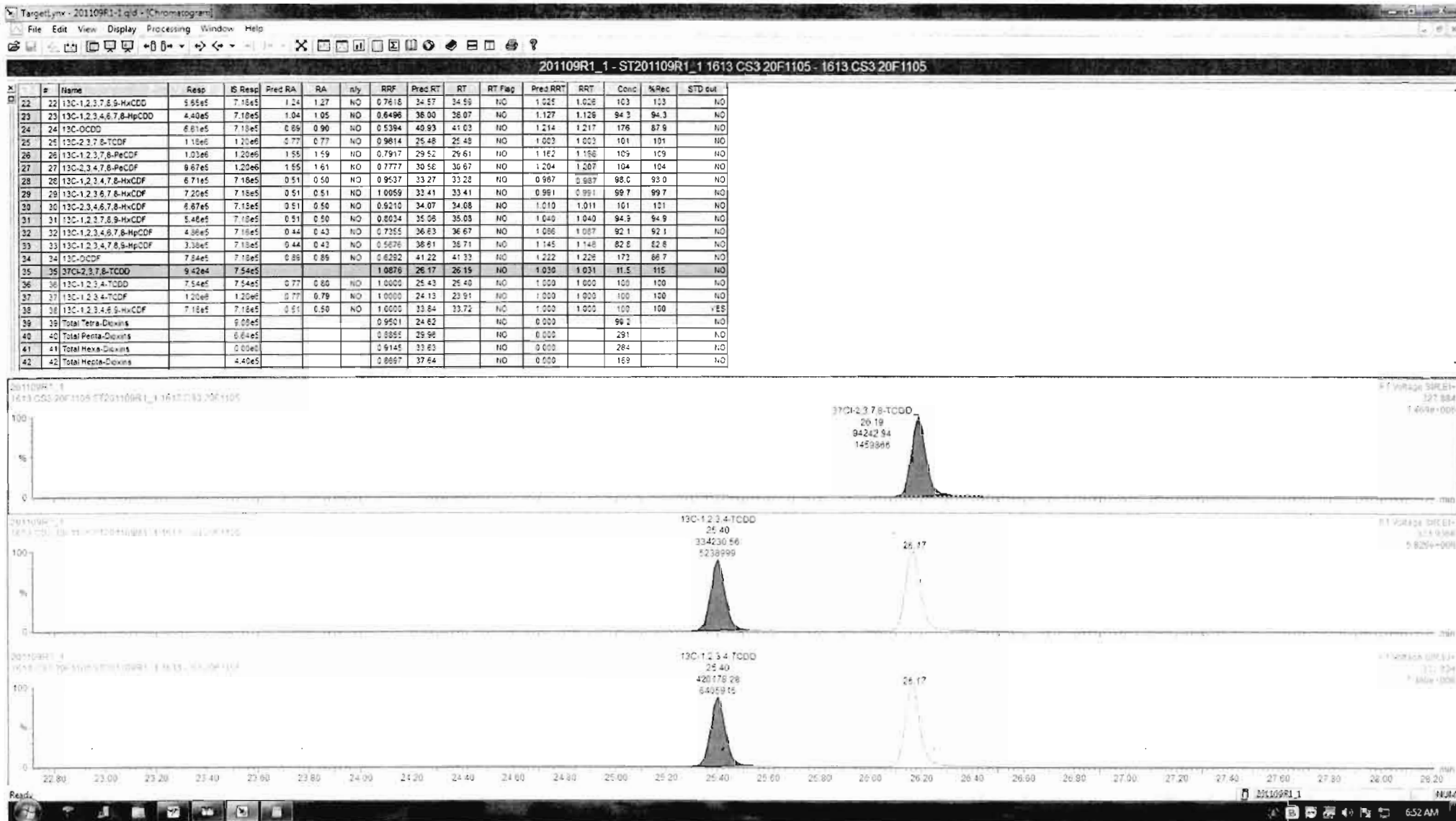
**13C-1,2,3,4-TCDD**

201109R1\_1



201109R1\_1





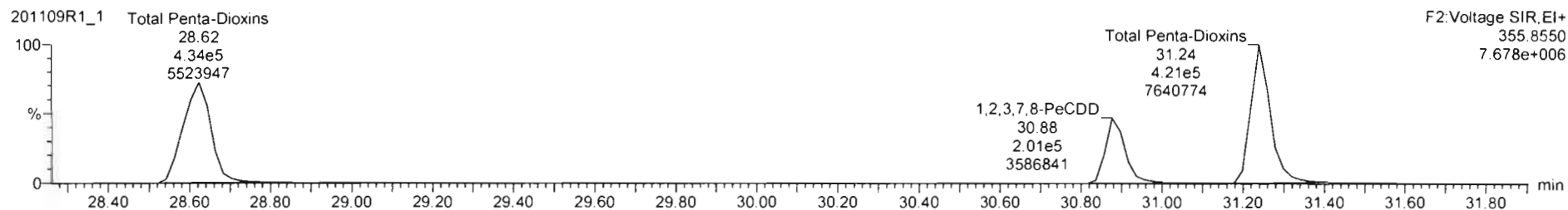
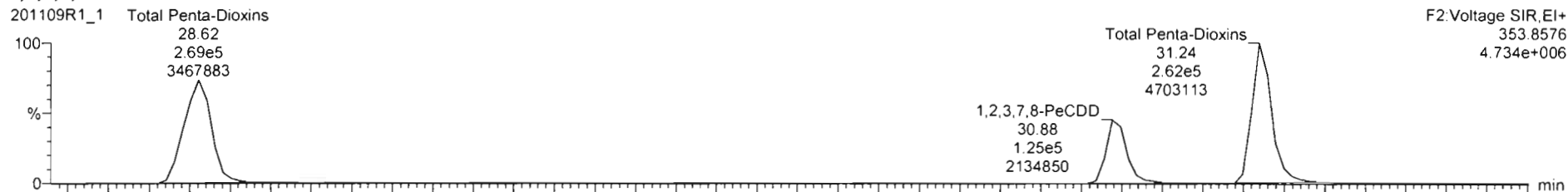


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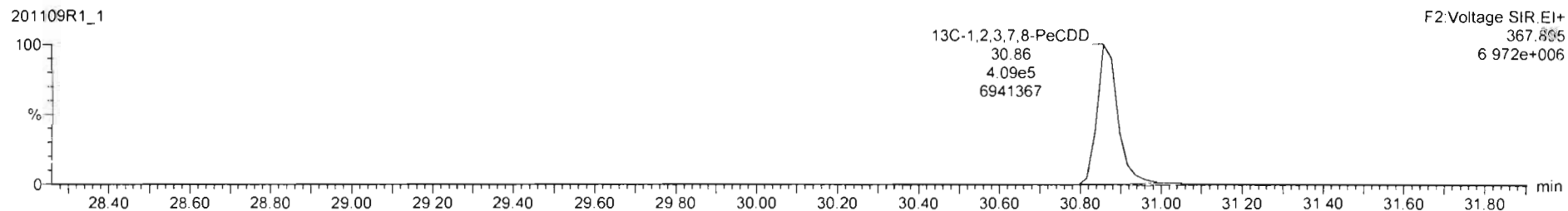
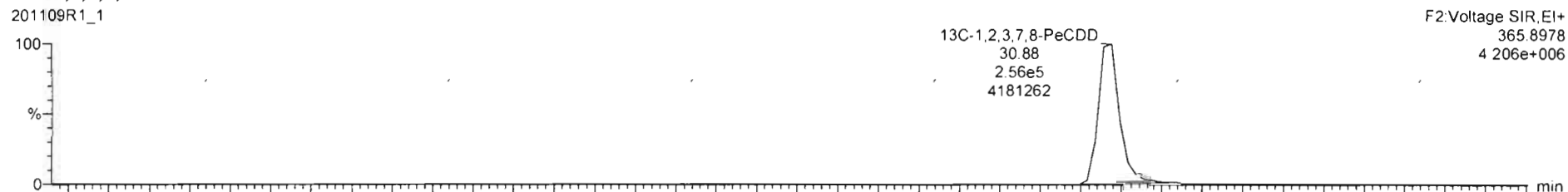
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Name: 201109R1\_1, Date: 09-Nov-2020, Time: 08:06:56, ID: ST201109R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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



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

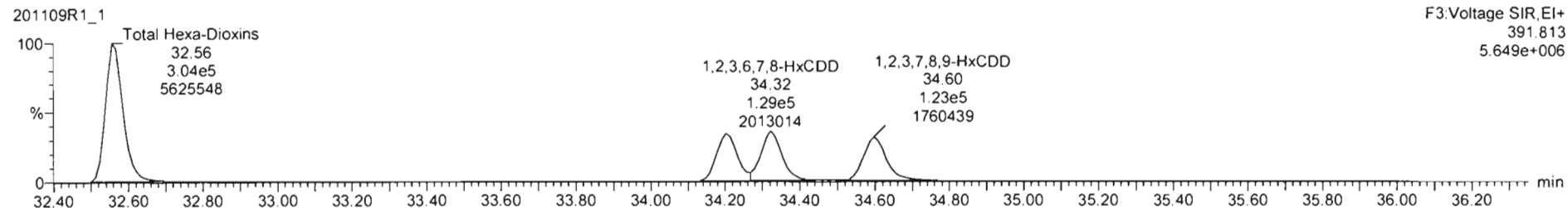
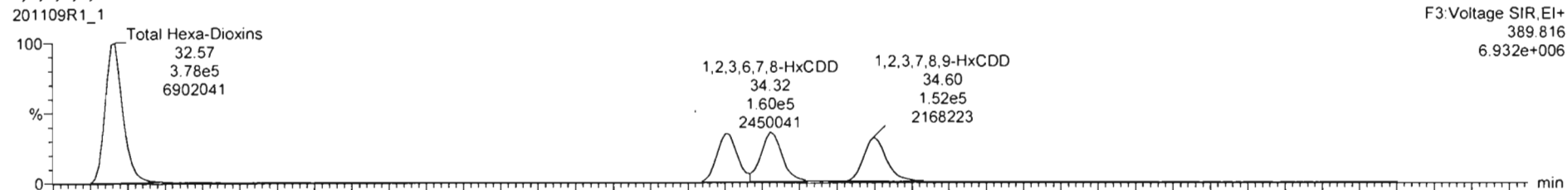


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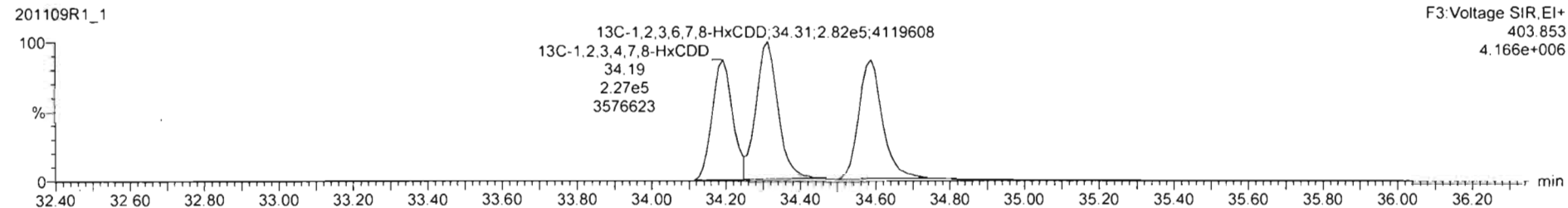
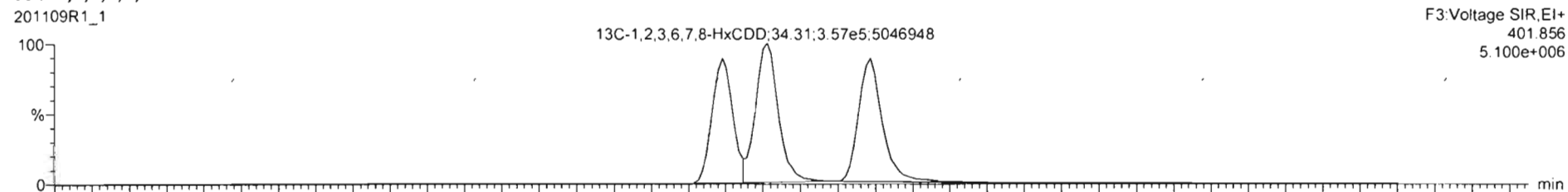
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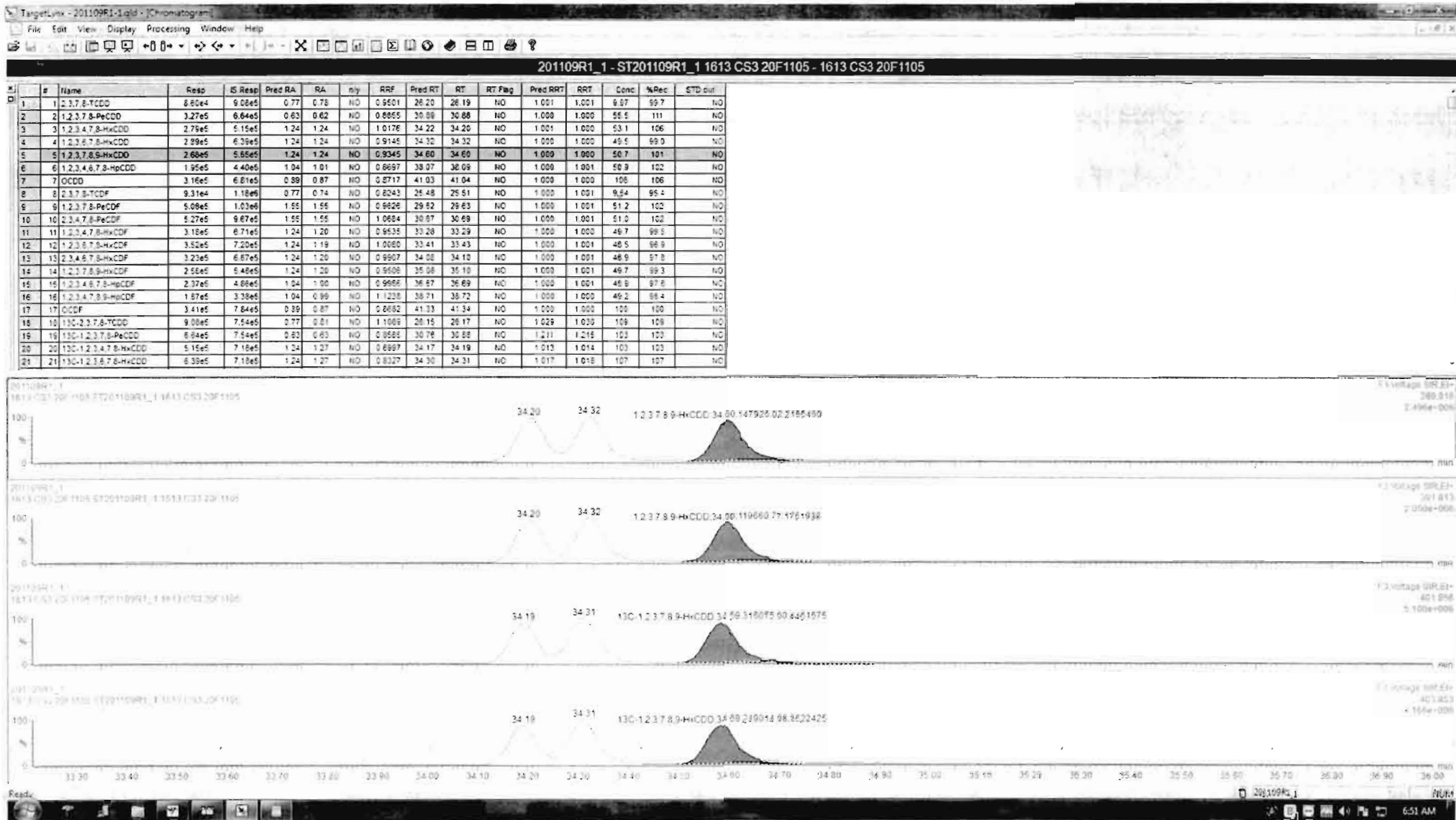
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1,2,3,4,7,8-HxCDD



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





Dataset: Untitled

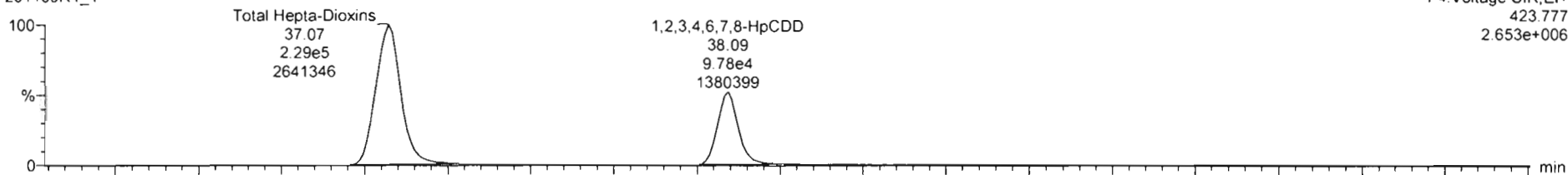
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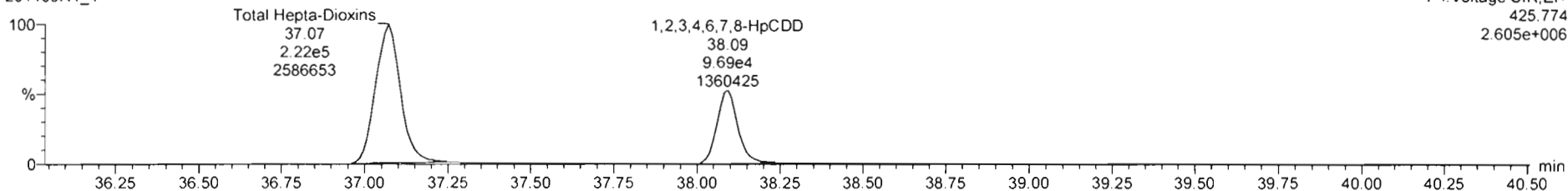
**1,2,3,4,6,7,8-HpCDD**

201109R1\_1



F4: Voltage SIR, EI+  
423.777  
2.653e+006

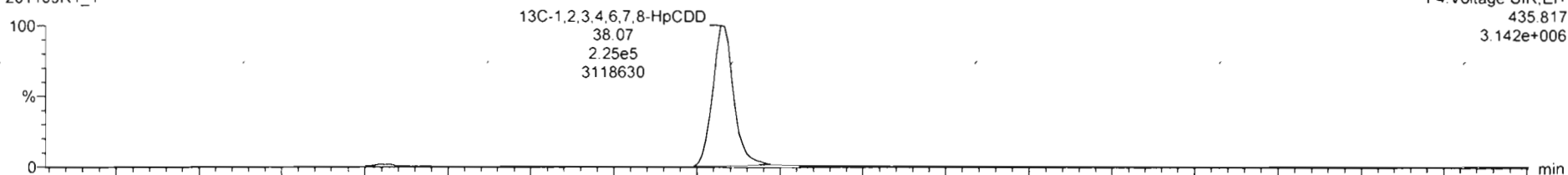
201109R1\_1



F4: Voltage SIR, EI+  
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2.605e+006

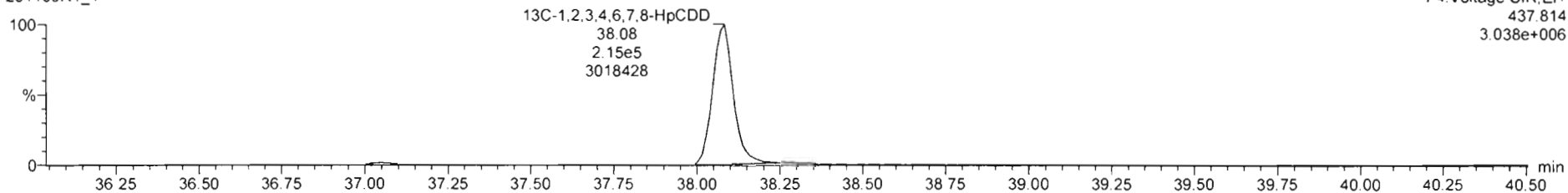
**13C-1,2,3,4,6,7,8-HpCDD**

201109R1\_1



F4: Voltage SIR, EI+  
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3.142e+006

201109R1\_1



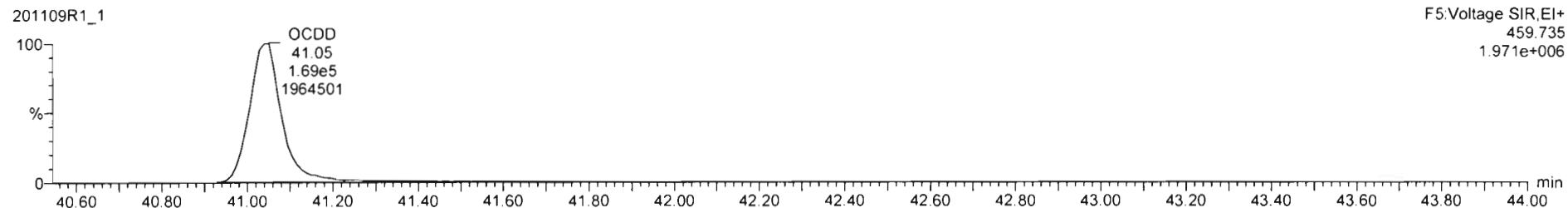
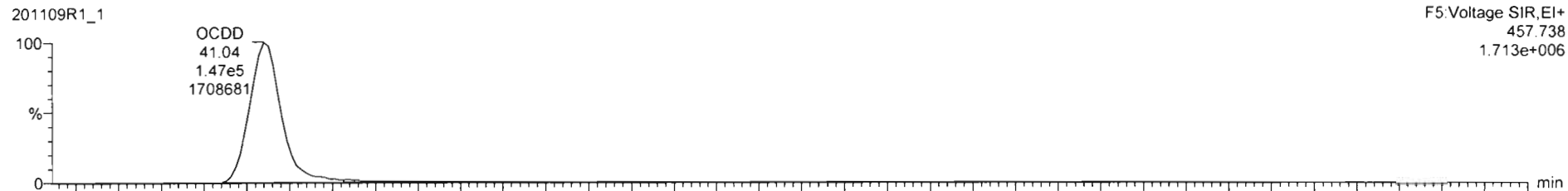
F4: Voltage SIR, EI+  
437.814  
3.038e+006

Dataset: Untitled

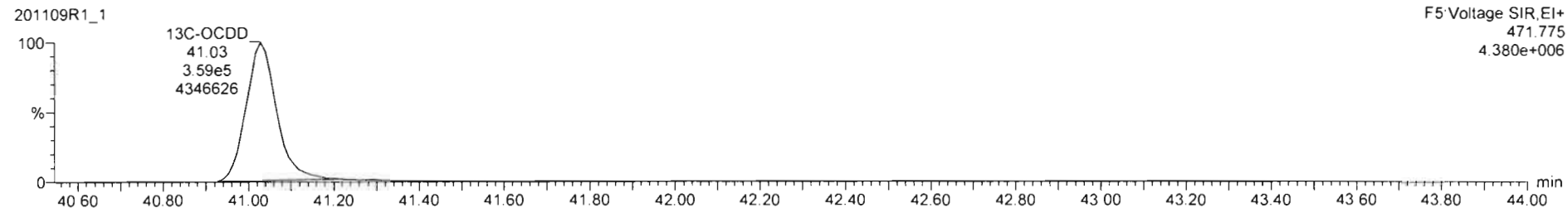
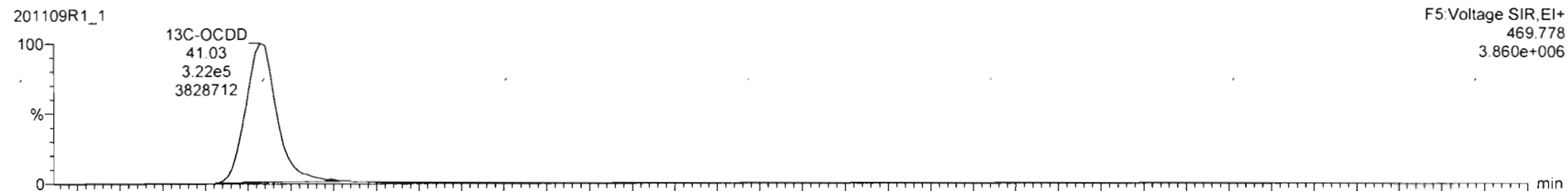
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Name: 201109R1\_1, Date: 09-Nov-2020, Time: 08:06:56, ID: ST201109R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

OCDD



13C-OCDD

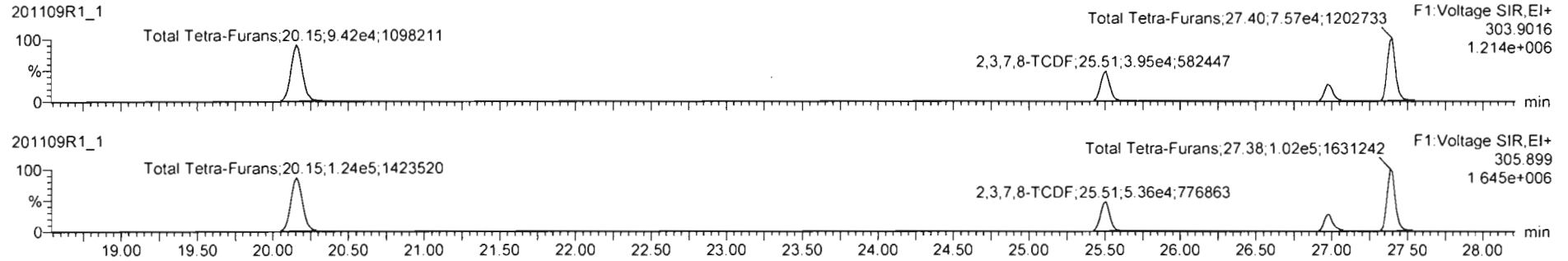


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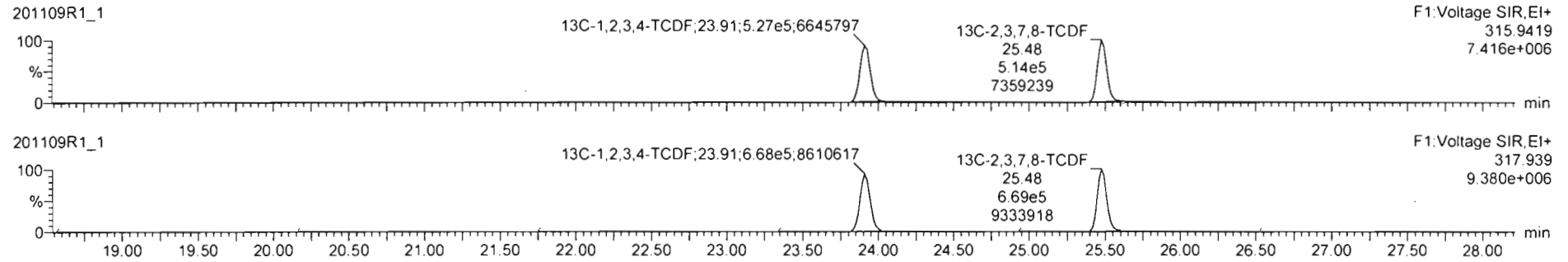
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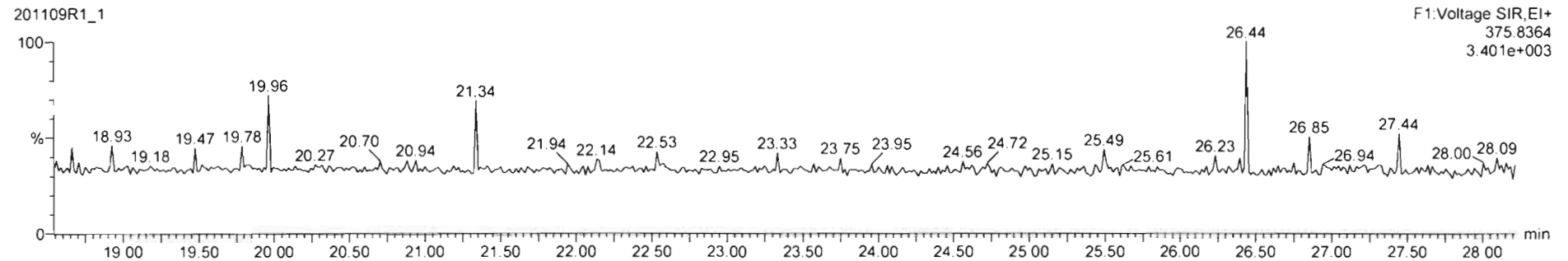
**2,3,7,8-TCDF**



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



**DPE1**



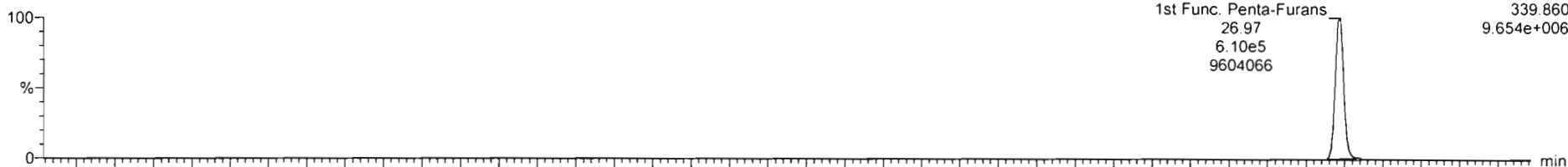
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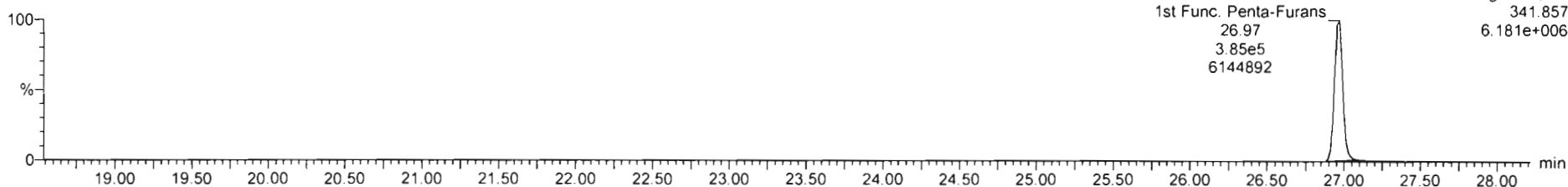
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1st Func. Penta-Furans

201109R1\_1

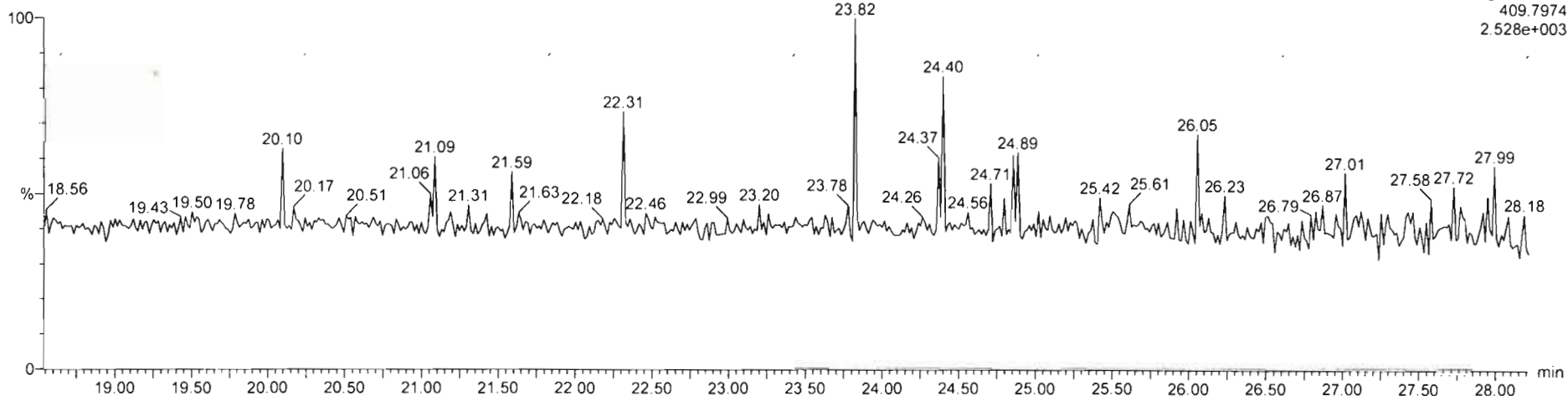


201109R1\_1



DPE6

201109R1\_1



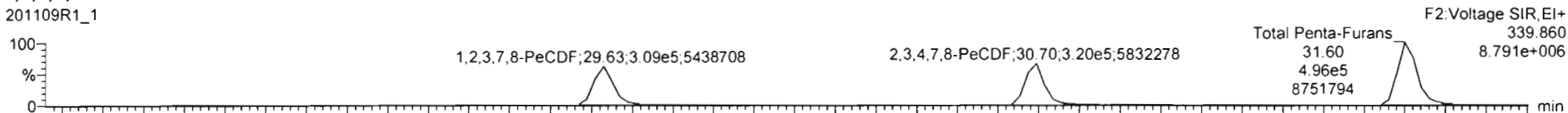
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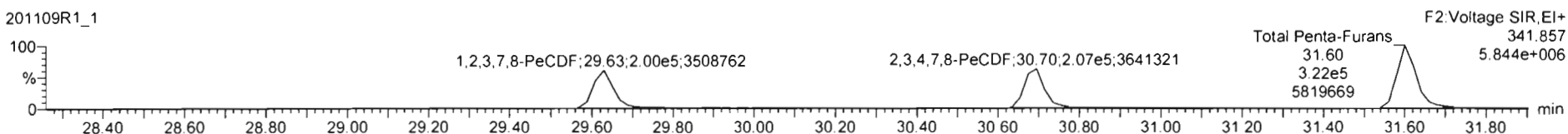
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**1,2,3,7,8-PeCDF**

201109R1\_1

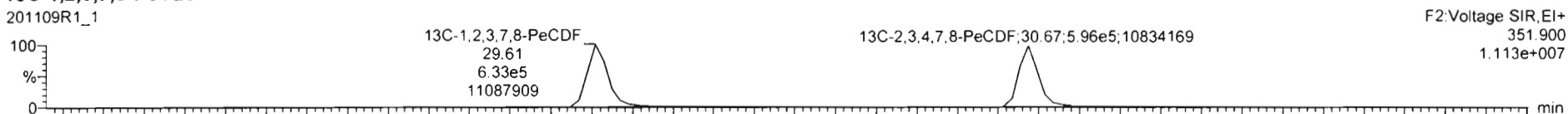


201109R1\_1

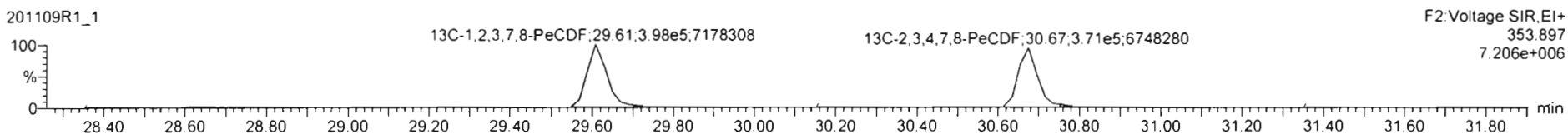


**13C-1,2,3,7,8-PeCDF**

201109R1\_1

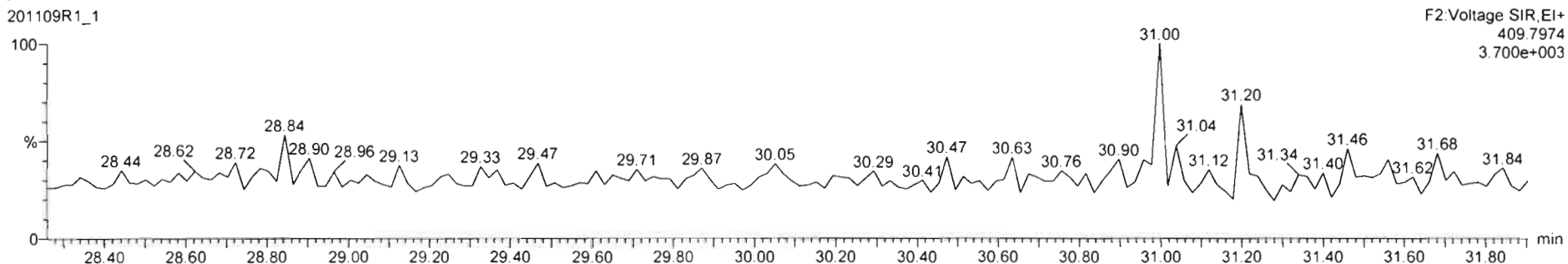


201109R1\_1



**DPE2**

201109R1\_1



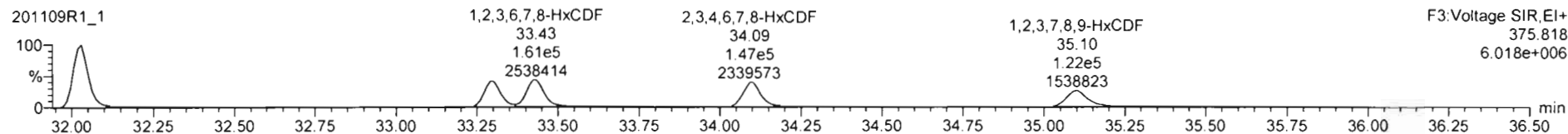
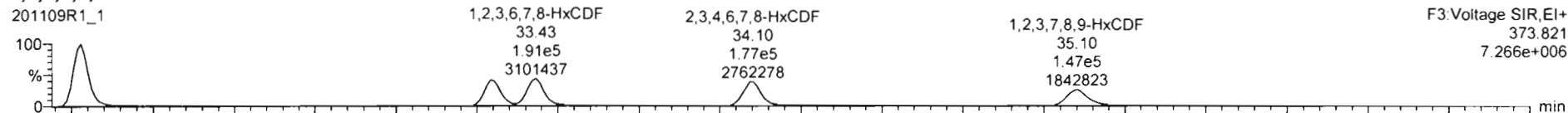


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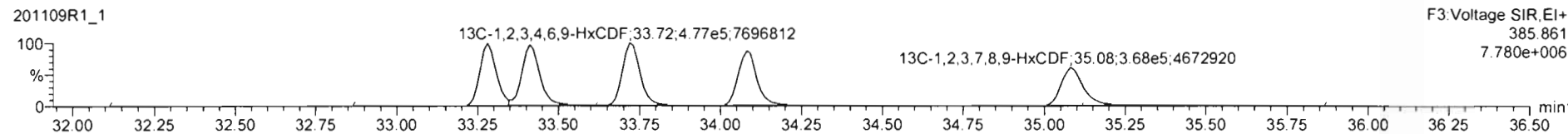
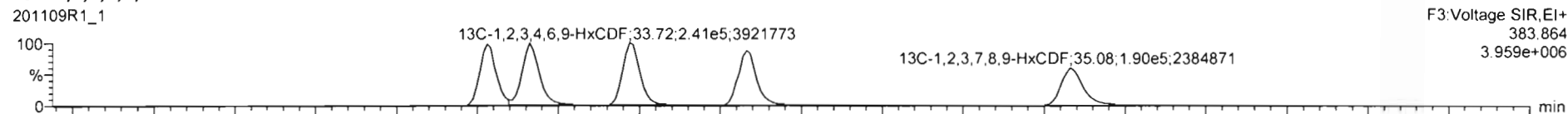
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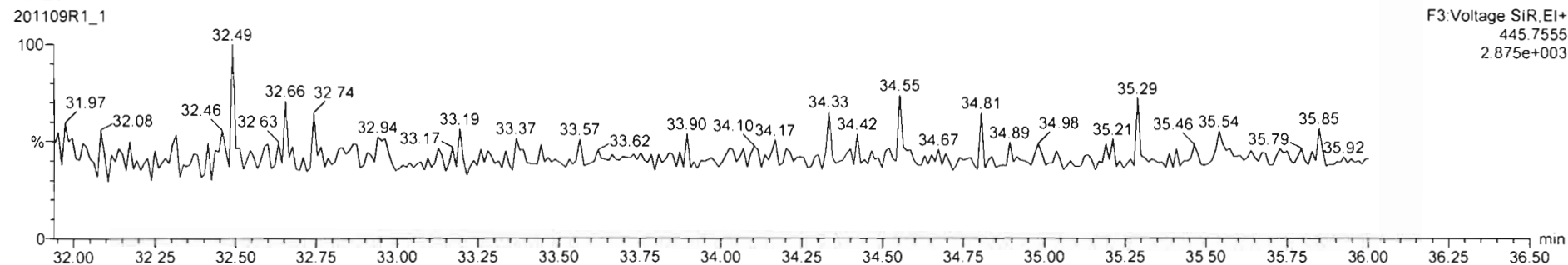
**1,2,3,4,7,8-HxCDF**

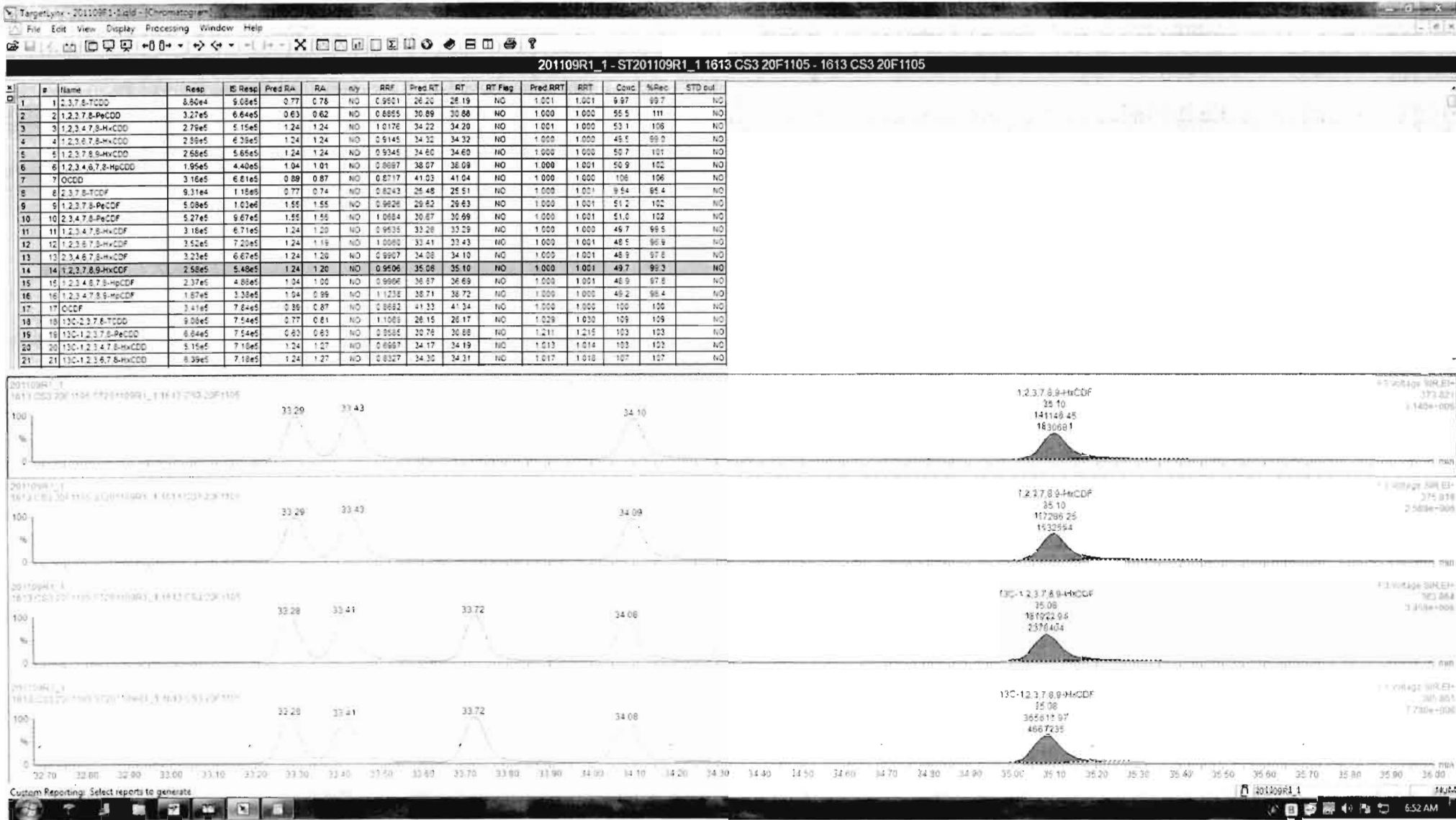


**13C-1,2,3,4,7,8-HxCDF**



**DPE3**





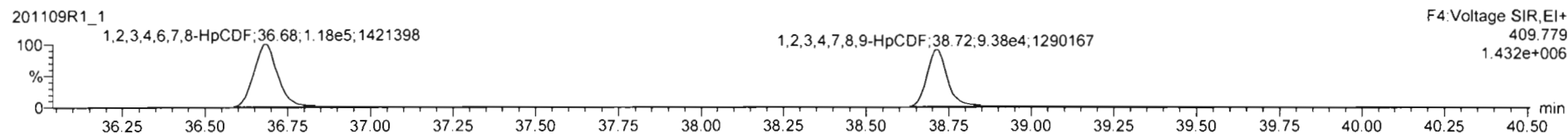
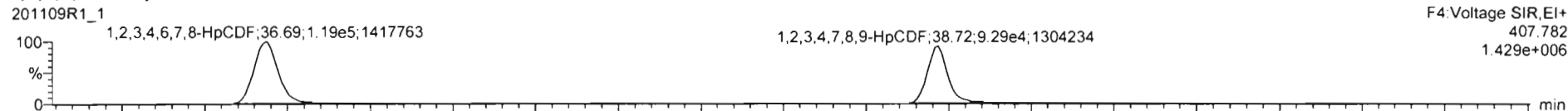
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Last Altered: Monday, November 09, 2020 3:43:29 PM Pacific Standard Time

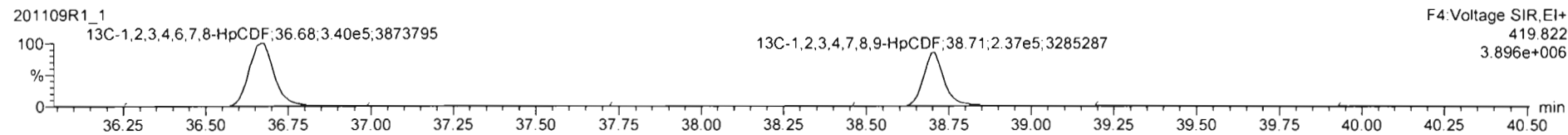
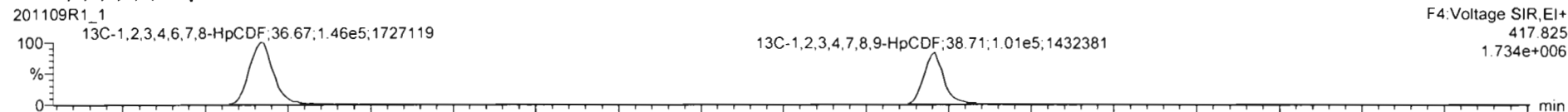
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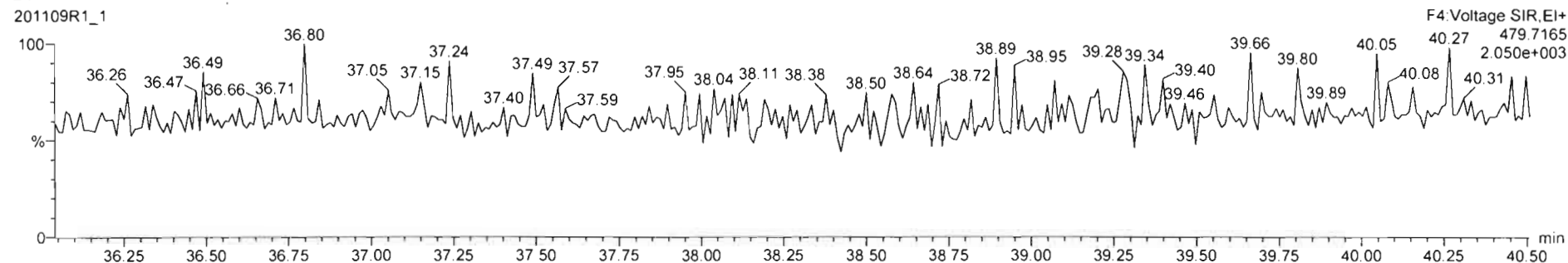
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**

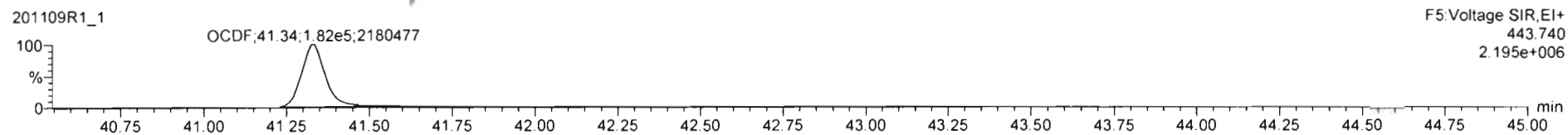
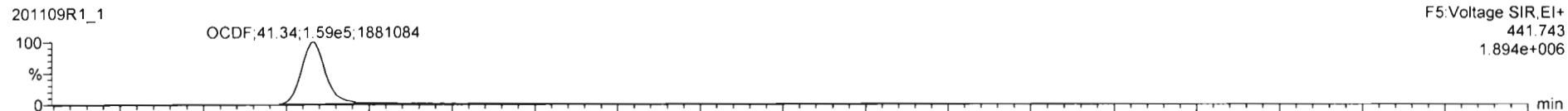


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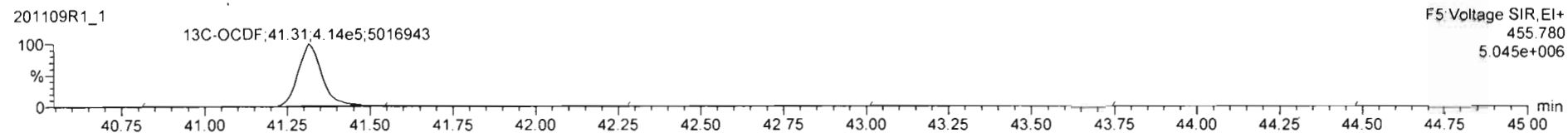
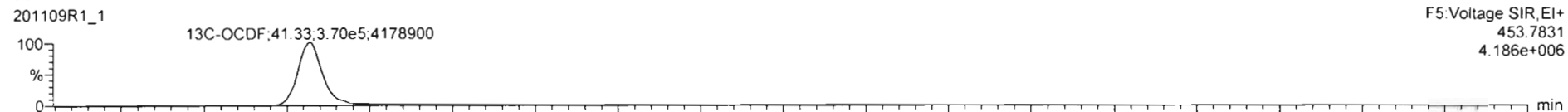
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Printed: Monday, November 09, 2020 3:43:41 PM Pacific Standard Time

Name: 201109R1\_1, Date: 09-Nov-2020, Time: 08:06:56, ID: ST201109R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

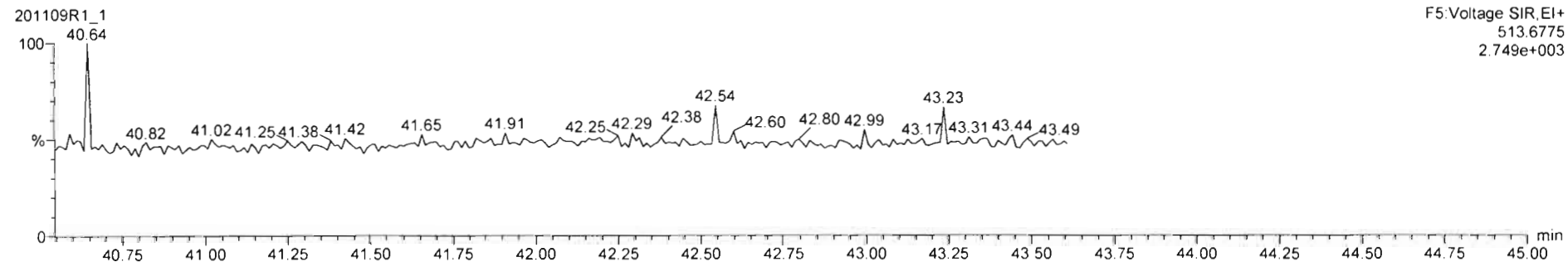
**OCDF**



**13C-OCDF**



**DPE5**



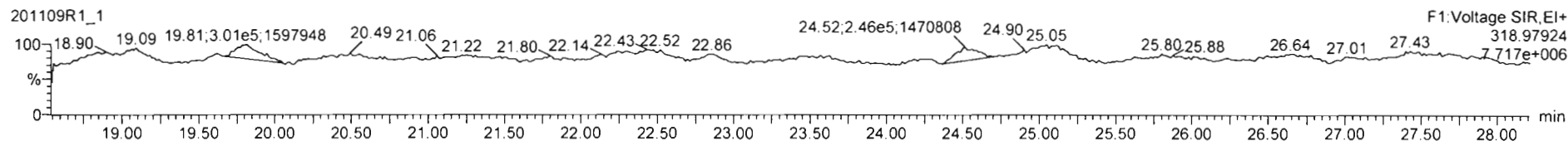
Dataset: Untitled

Last Altered: Monday, November 09, 2020 3:43:29 PM Pacific Standard Time

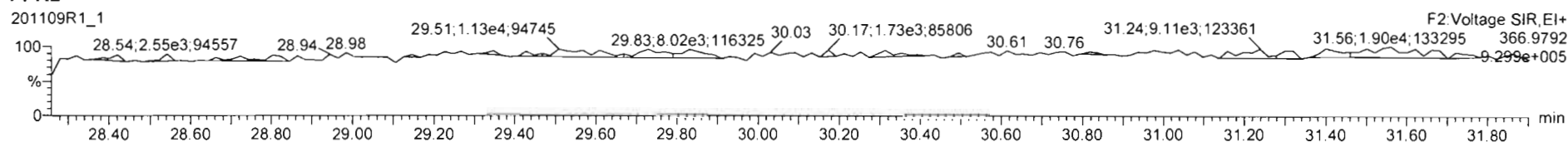
Printed: Monday, November 09, 2020 3:43:41 PM Pacific Standard Time

Name: 201109R1\_1, Date: 09-Nov-2020, Time: 08:06:56, ID: ST201109R1\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

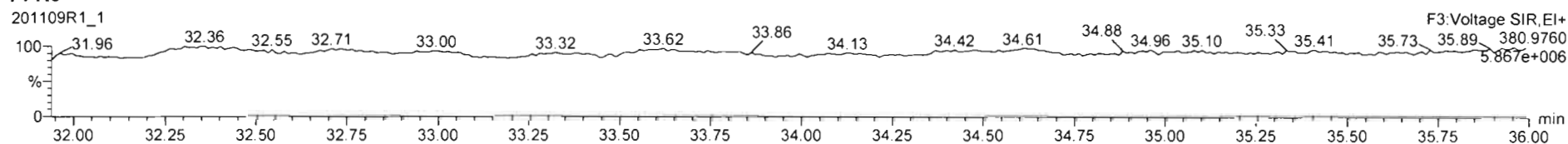
PFK1



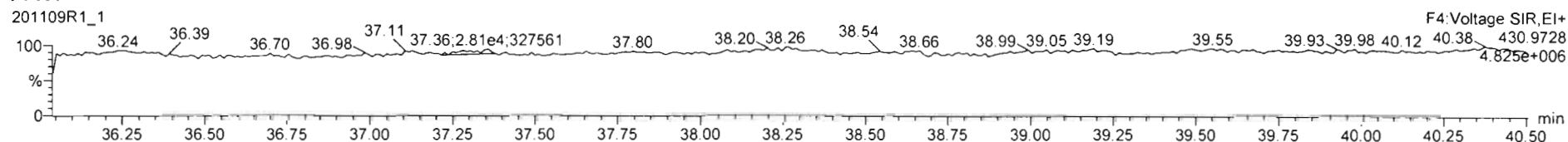
PFK2



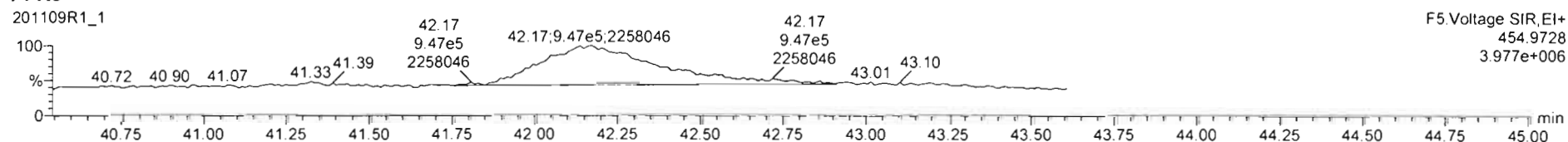
PFK3



PFK4

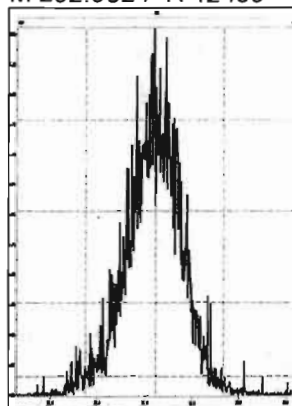


PFK5

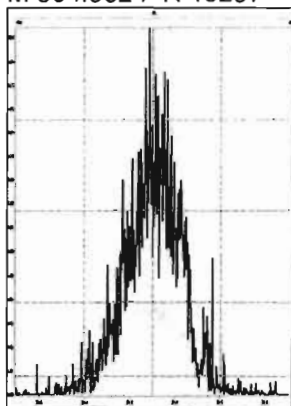


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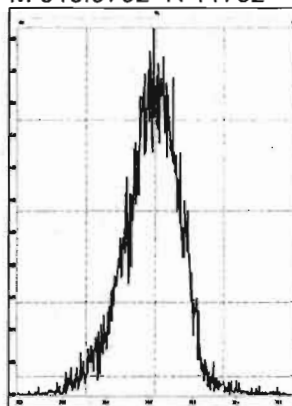
M 292.9824 R 12489



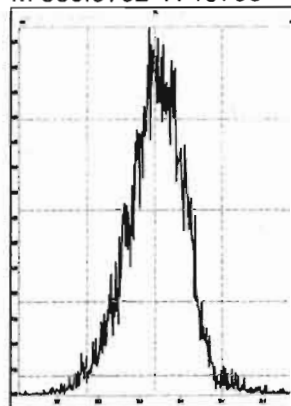
M 304.9824 R 13297



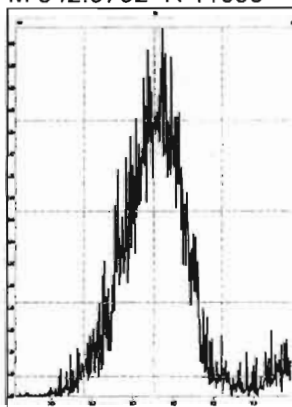
M 318.9792 R 11752



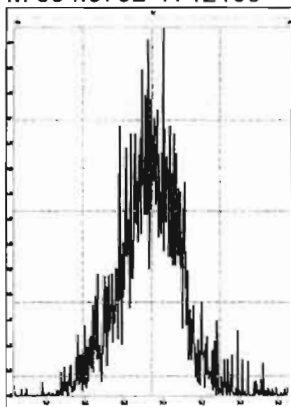
M 330.9792 R 10798



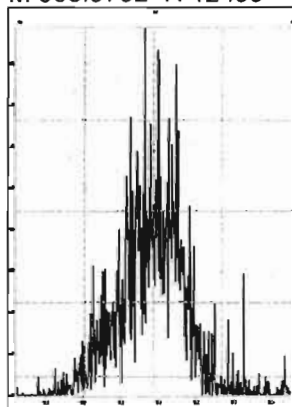
M 342.9792 R 11056



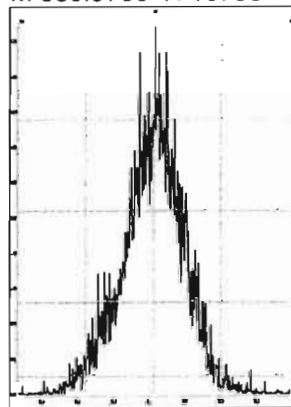
M 354.9792 R 12106



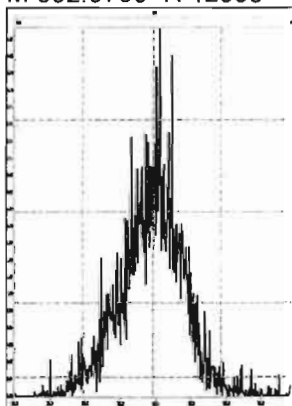
M 366.9792 R 12499



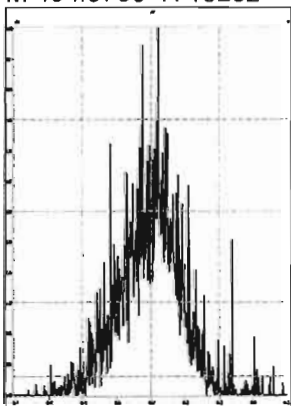
M 380.9760 R 10763



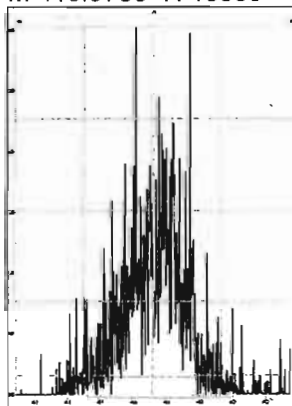
M 392.9760 R 12008



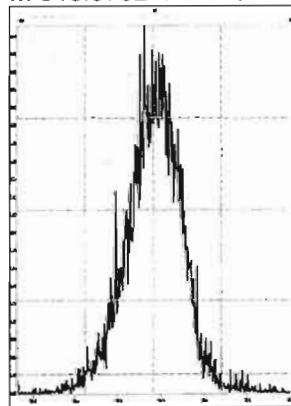
M 404.9760 R 13262



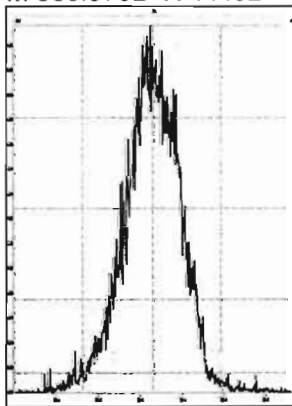
M 416.9760 R 15365



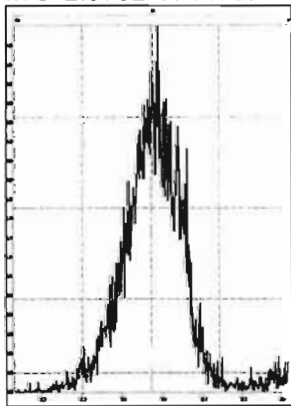
M 318.9792 R 12196



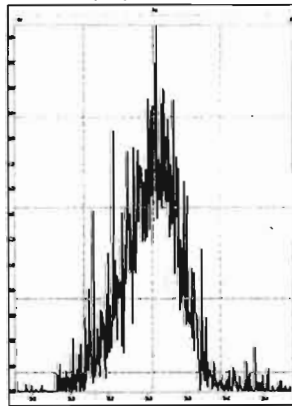
M 330.9792 R 11192



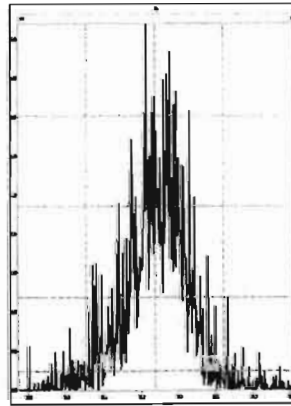
M 342.9792 R 11737



M 354.9792 R 13311

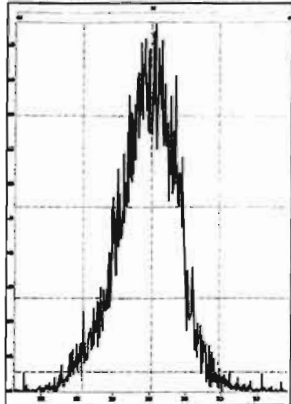


M 366.9792 R 13405

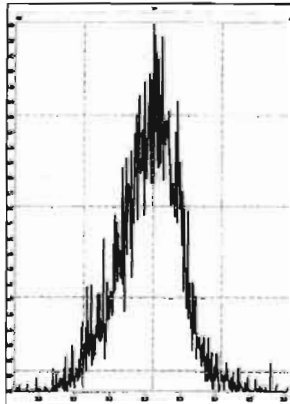


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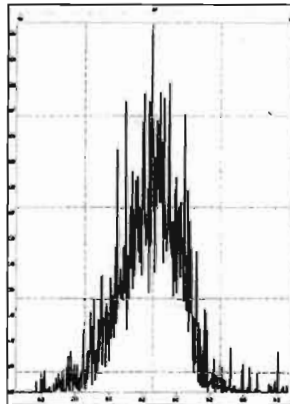
M 380.9760 R 10214



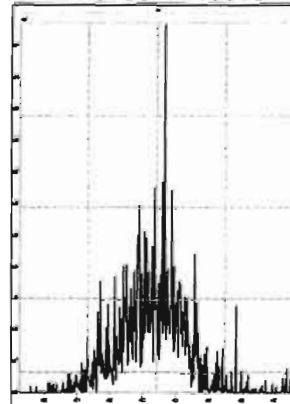
M 392.9760 R 12269



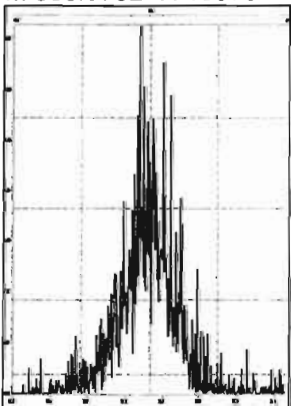
M 404.9760 R 12716



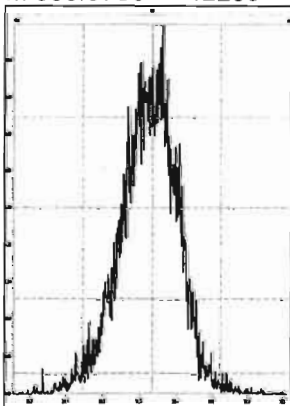
M 416.9760 R 13333



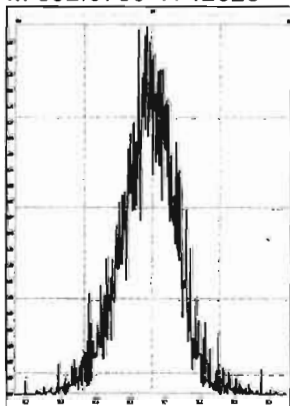
M 366.9792 R 15975



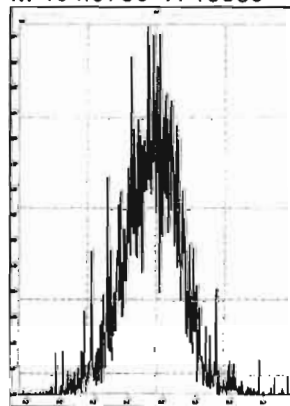
M 380.9760 R 12293



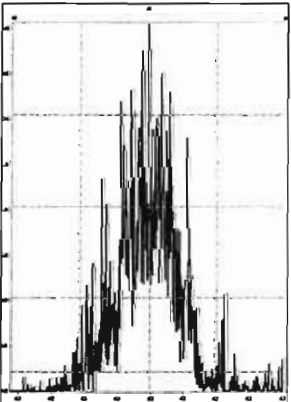
M 392.9760 R 12828



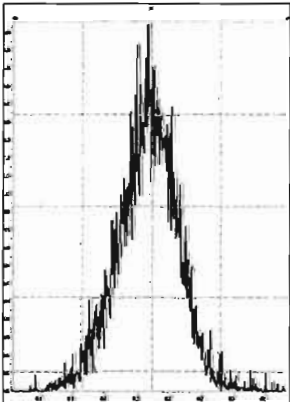
M 404.9760 R 13335



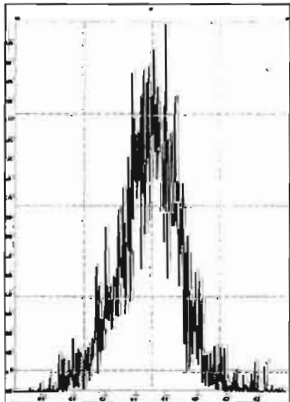
M 416.9760 R 13578



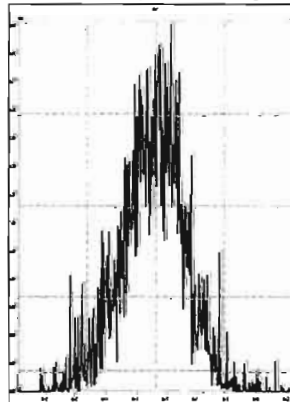
M 430.9728 R 10895



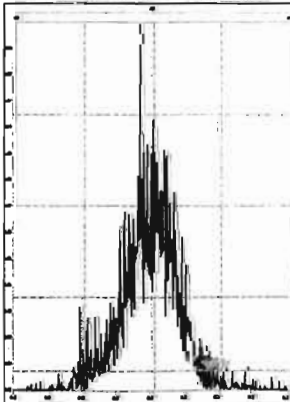
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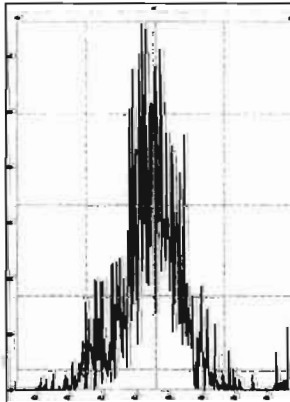
M 454.9728 R 12588



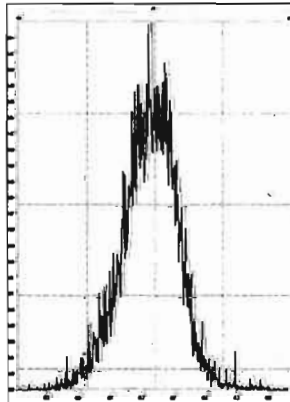
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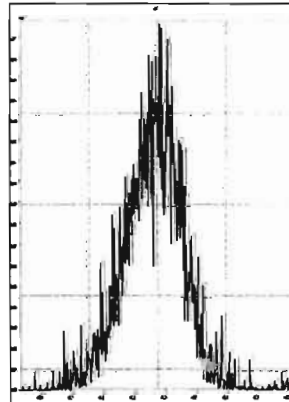
M 416.9760 R 15534



M 430.9728 R 11749

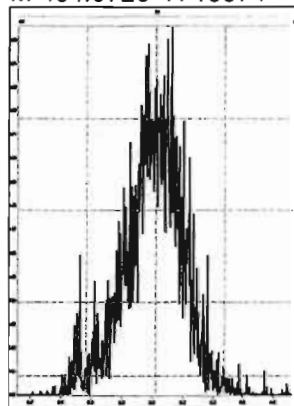


M 442.9728 R 12954

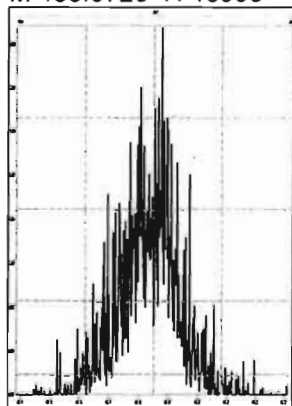


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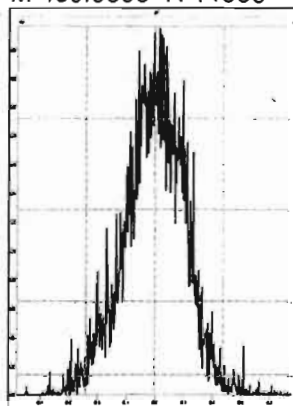
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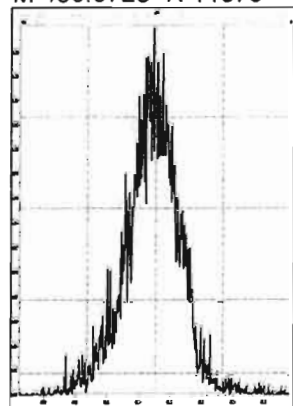
M 466.9728 R 16958



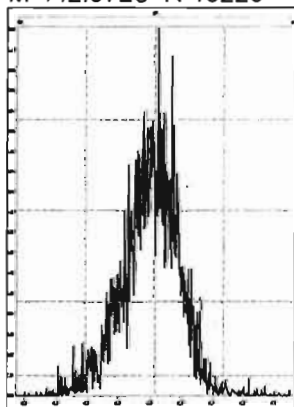
M 480.9696 R 11365



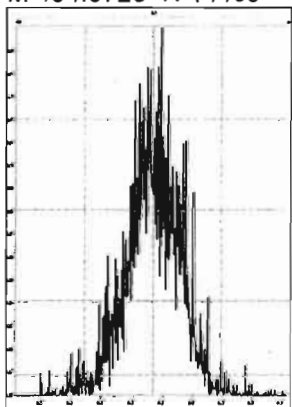
M 430.9728 R 11876



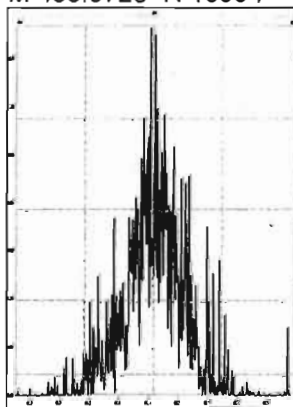
M 442.9728 R 13225



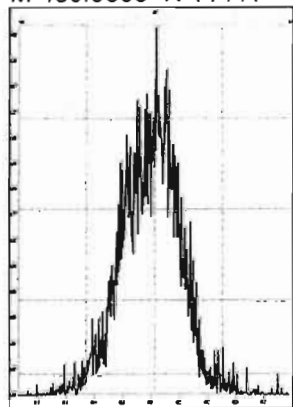
M 454.9728 R 14409



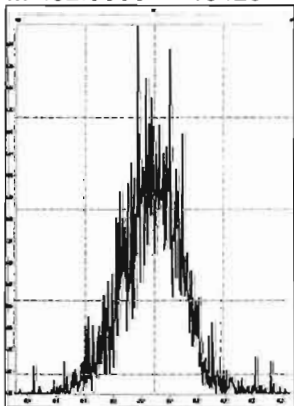
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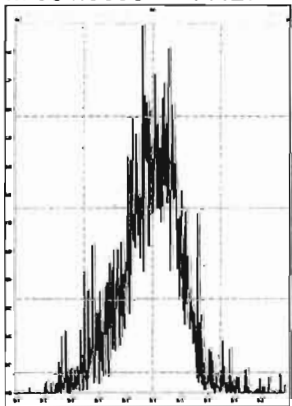
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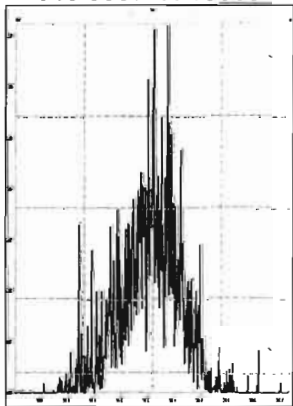
M 492.9696 R 13423



M 504.9696 R 14127



M 516.9697 R 16050





# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST20110922-1

**Reviewed By:** dy 11-10-2020 Hr 11-10-2020  
*Initials & Date*

**End Calibration ID:** NA

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

**Mass resolution  $\geq$**

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:**

(A) One mass under 10K. OK, dy 11-10-2020

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
<input type="checkbox"/>	<input type="checkbox"/> NA

Dataset: U:\VG12.PRO\Results\201109R2\201109R2-2.qld

Last Altered: Tuesday, November 10, 2020 7:00:09 AM Pacific Standard Time

Printed: Tuesday, November 10, 2020 7:00:34 AM Pacific Standard Time

GRB 11/09/2020  
Jy 11/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201109R2\_2, Date: 09-Nov-2020, Time: 20:13:30, ID: ST201109R2\_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	8.54e4	8.69e5	0.78	NO	0.950	26.16	26.16	NO	1.001	1.001	10.351	104	NO
2	2 1,2,3,7,8-PeCDD	3.12e5	6.43e5	0.62	NO	0.885	30.85	30.86	NO	1.000	1.001	54.731	109	NO
3	3 1,2,3,4,7,8-HxCDD	2.82e5	5.15e5	1.24	NO	1.02	34.20	34.19	NO	1.001	1.001	53.837	108	NO
4	4 1,2,3,6,7,8-HxCDD	2.82e5	6.21e5	1.25	NO	0.915	34.30	34.31	NO	1.000	1.001	49.680	99.4	NO
5	5 1,2,3,7,8,9-HxCDD	2.78e5	5.78e5	1.24	NO	0.934	34.57	34.58	NO	1.000	1.000	51.344	103	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.20e5	4.79e5	1.02	NO	0.870	38.06	38.08	NO	1.000	1.001	52.673	105	NO
7	7 OCDD	3.77e5	8.14e5	0.86	NO	0.872	41.03	41.04	NO	1.000	1.000	106.38	106	NO
8	8 2,3,7,8-TCDF	9.71e4	1.21e6	0.74	NO	0.824	25.45	25.46	NO	1.000	1.001	9.7686	97.7	NO
9	9 1,2,3,7,8-PeCDF	4.76e5	9.45e5	1.58	NO	0.963	29.60	29.61	NO	1.000	1.001	52.320	105	NO
10	10 2,3,4,7,8-PeCDF	5.07e5	9.19e5	1.53	NO	1.07	30.66	30.67	NO	1.000	1.001	51.676	103	NO
11	11 1,2,3,4,7,8-HxCDF	3.25e5	6.75e5	1.21	NO	0.953	33.27	33.28	NO	1.000	1.000	50.482	101	NO
12	12 1,2,3,6,7,8-HxCDF	3.53e5	7.06e5	1.25	NO	1.01	33.40	33.41	NO	1.000	1.000	49.673	99.3	NO
13	13 2,3,4,6,7,8-HxCDF	3.26e5	6.62e5	1.20	NO	0.991	34.06	34.08	NO	1.000	1.001	49.723	99.4	NO
14	14 1,2,3,7,8,9-HxCDF	2.74e5	5.73e5	1.21	NO	0.951	35.07	35.08	NO	1.000	1.000	50.352	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.56e5	5.22e5	0.98	NO	0.999	36.65	36.67	NO	1.000	1.001	49.199	98.4	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.22e5	3.97e5	1.03	NO	1.12	38.70	38.71	NO	1.000	1.000	49.774	99.5	NO
17	17 OCDF	3.94e5	8.79e5	0.89	NO	0.868	41.32	41.33	NO	1.000	1.000	103.23	103	NO
18	18 13C-2,3,7,8-TCDD	8.69e5	7.49e5	0.79	NO	1.11	26.12	26.13	NO	1.029	1.030	104.58	105	NO
19	19 13C-1,2,3,7,8-PeCDD	6.43e5	7.49e5	0.63	NO	0.859	30.73	30.84	NO	1.211	1.215	100.01	100	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.15e5	7.09e5	1.27	NO	0.700	34.16	34.17	NO	1.013	1.014	103.78	104	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.21e5	7.09e5	1.26	NO	0.833	34.28	34.29	NO	1.017	1.017	105.18	105	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.78e5	7.09e5	1.27	NO	0.762	34.55	34.56	NO	1.025	1.025	107.07	107	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.79e5	7.09e5	1.05	NO	0.650	37.99	38.06	NO	1.127	1.129	104.07	104	NO
24	24 13C-OCDD	8.14e5	7.09e5	0.89	NO	0.539	40.92	41.03	NO	1.214	1.217	212.80	106	NO
25	25 13C-2,3,7,8-TCDF	1.21e6	1.16e6	0.77	NO	0.981	25.45	25.45	NO	1.003	1.003	106.33	106	NO
26	26 13C-1,2,3,7,8-PeCDF	9.45e5	1.16e6	1.58	NO	0.792	29.49	29.59	NO	1.162	1.166	103.23	103	NO
27	27 13C-2,3,4,7,8-PeCDF	9.19e5	1.16e6	1.61	NO	0.778	30.54	30.66	NO	1.204	1.208	102.24	102	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.75e5	7.09e5	0.50	NO	0.954	33.26	33.27	NO	0.987	0.987	99.758	99.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.06e5	7.09e5	0.51	NO	1.01	33.40	33.40	NO	0.991	0.991	98.949	98.9	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.62e5	7.09e5	0.50	NO	0.921	34.06	34.06	NO	1.010	1.010	101.33	101	NO

Dataset: U:\VG12.PRO\Results\201109R2\201109R2-2.qld

Last Altered: Tuesday, November 10, 2020 7:00:09 AM Pacific Standard Time

Printed: Tuesday, November 10, 2020 7:00:34 AM Pacific Standard Time

Name: 201109R2\_2, Date: 09-Nov-2020, Time: 20:13:30, ID: ST201109R2\_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
31	31 13C-1,2,3,7,8,9-HxCDF	5.73e5	7.09e5	0.50	NO	0.803	35.05	35.07	NO	1.040	1.040	100.50	100	NO
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.22e5	7.09e5	0.43	NO	0.735	36.62	36.64	NO	1.086	1.087	100.05	100	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.97e5	7.09e5	0.42	NO	0.568	38.60	38.70	NO	1.145	1.148	98.556	98.6	NO
34	34 13C-OCDF	8.79e5	7.09e5	0.87	NO	0.629	41.21	41.31	NO	1.222	1.226	197.03	98.5	NO
35	35 37Cl-2,3,7,8-TCDD	9.47e4	7.49e5			1.09	26.13	26.16	NO	1.030	1.031	11.626	116	NO
36	36 13C-1,2,3,4-TCDD	7.49e5	7.49e5	0.80	NO	1.00	25.43	25.37	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.16e6	1.16e6	0.79	NO	1.00	24.13	23.88	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.09e5	7.09e5	0.50	NO	1.00	33.84	33.71	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, November 10, 2020 7:01:12 AM Pacific Standard Time

Printed: Tuesday, November 10, 2020 7:01:16 AM Pacific Standard Time

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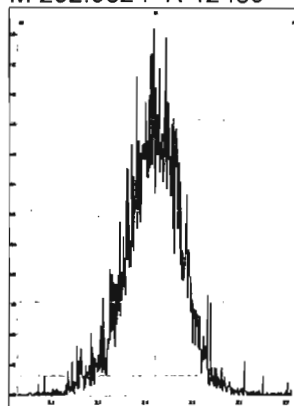
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Compound name: 2,3,7,8-TCDD

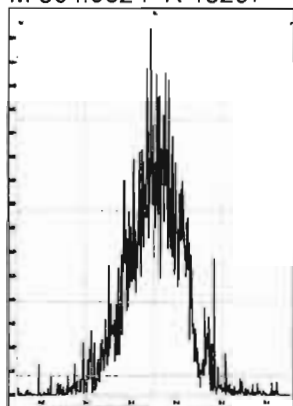
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1	201109R2_1	SOLVENT BLANK	09-Nov-20	19:28:36
2	201109R2_2	ST201109R2_1 1613 CS3 20F1105	09-Nov-20	20:13:30
3	201109R2_3	TCDF CPSM	09-Nov-20	20:58:24
4	201109R2_4	SOLVENT BLANK	09-Nov-20	21:43:19
5	201109R2_5	2002171-06 USMPDI-051SG-201009 27.94	09-Nov-20	22:28:12
6	201109R2_6	2002171-07 USMPDI-054SG-201009 26.2	09-Nov-20	23:13:06
7	201109R2_7	2002210-01 2020-10-13-101 15.65	09-Nov-20	23:57:59
8	201109R2_8	2002210-02 2020-10-13-102 20.16	10-Nov-20	00:42:53
9	201109R2_9	2002210-08 2020-10-13-108 10.53	10-Nov-20	01:27:47
10	201109R2_10	2002210-03 2020-10-13-103 17.39	10-Nov-20	02:12:43
11	201109R2_11	2002210-04 2020-10-13-104 11.1	10-Nov-20	02:57:35
12	201109R2_12	2002210-05 2020-10-13-105 12.84	10-Nov-20	03:42:30
13	201109R2_13	2002210-06 2020-10-13-106 12.14	10-Nov-20	04:27:23
14	201109R2_14	2002210-07 2020-10-13-107 10.99	10-Nov-20	05:12:17
15	201109R2_15	2002210-09 2020-10-13-109 10.35	10-Nov-20	05:57:11

Printed: Monday, November 09, 2020 19:28:29 Pacific Standard Time

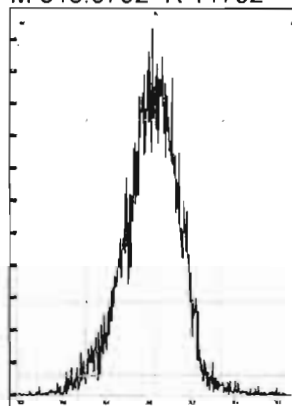
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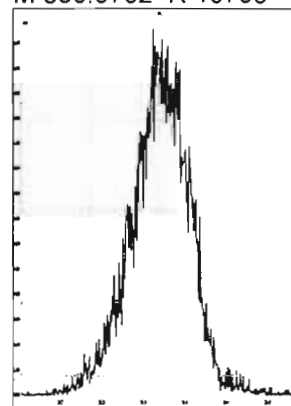
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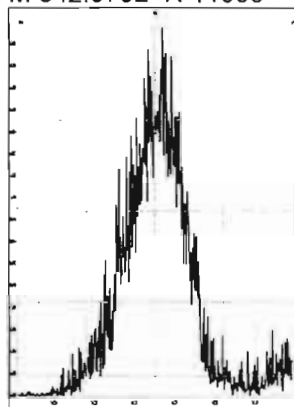
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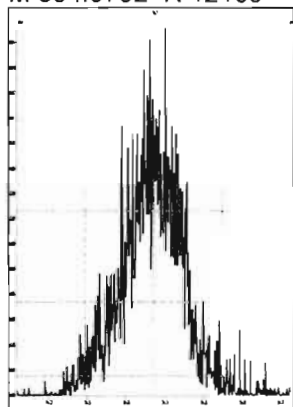
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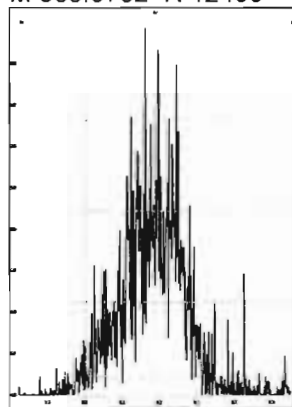
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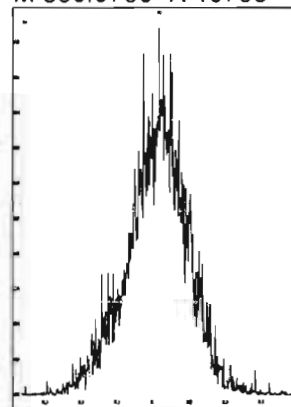
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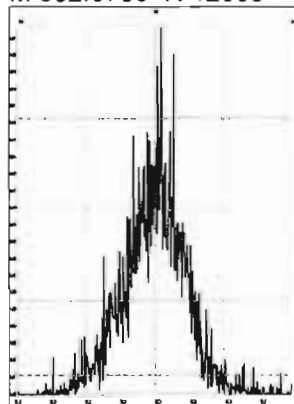
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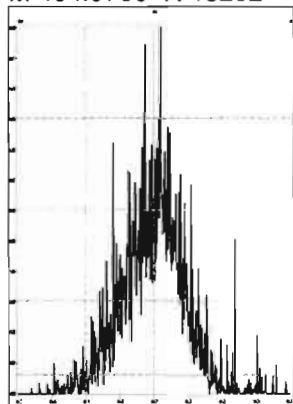
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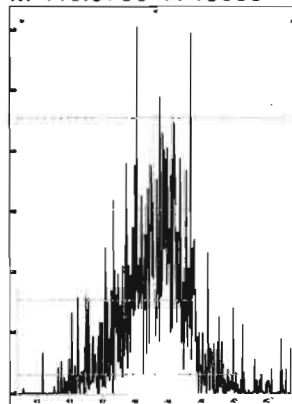
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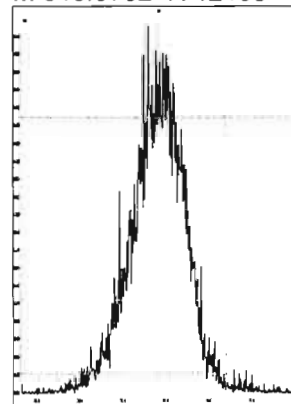
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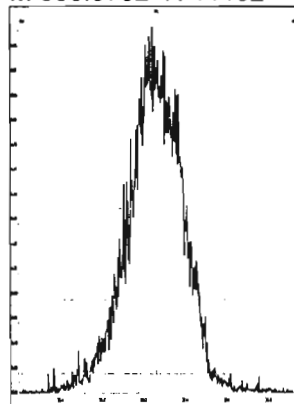
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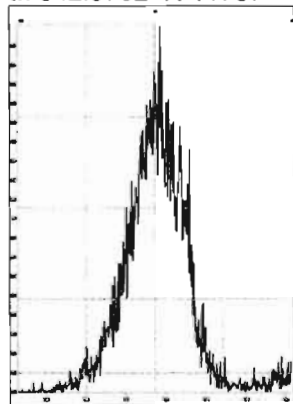
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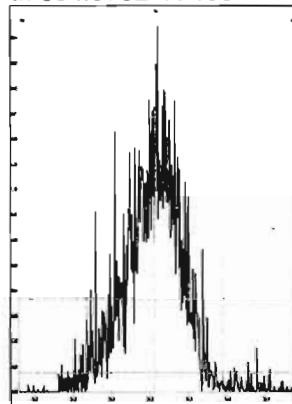
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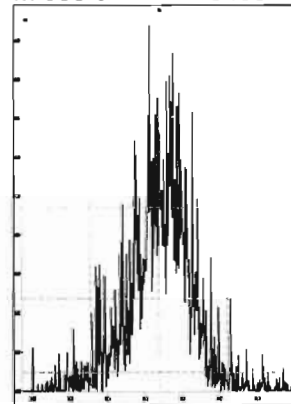
M 342.9792 R 11737



M 354.9792 R 13311

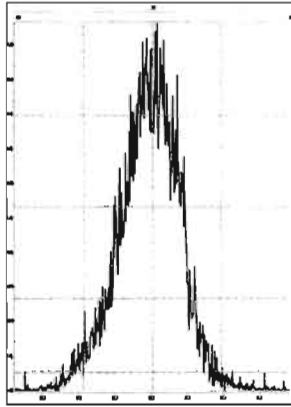


M 366.9792 R 13405

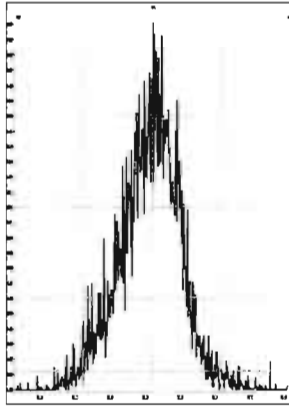


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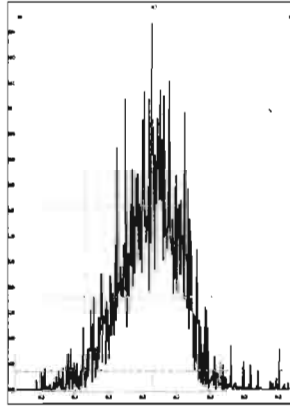
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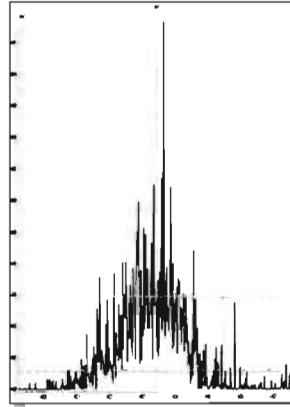
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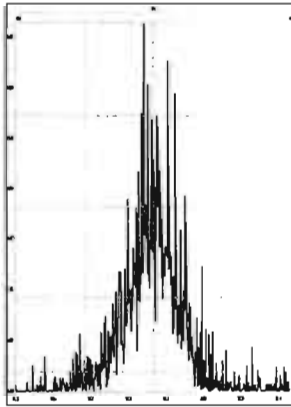
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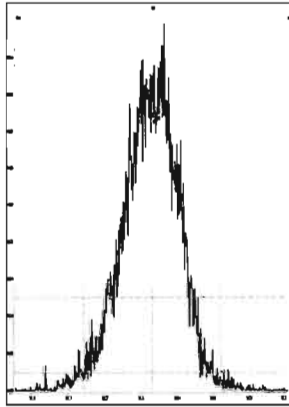
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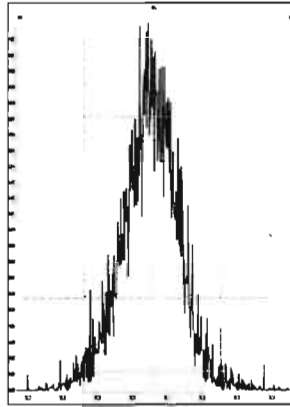
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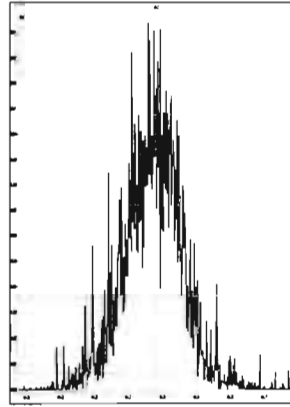
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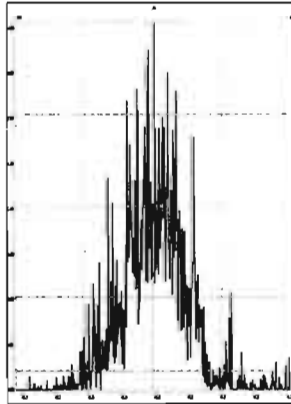
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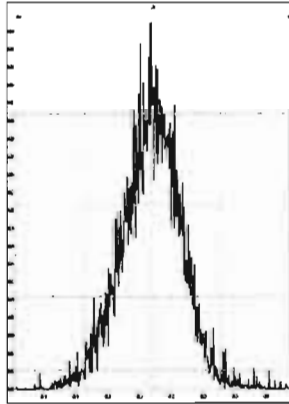
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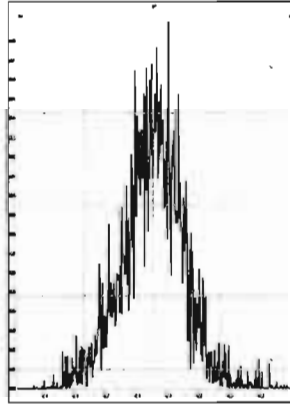
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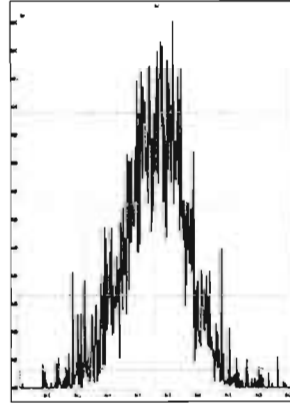
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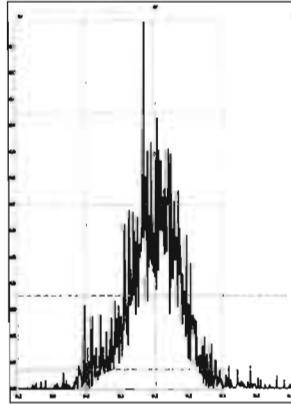
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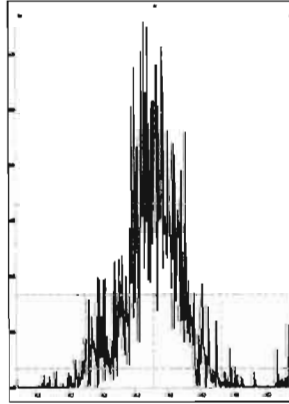
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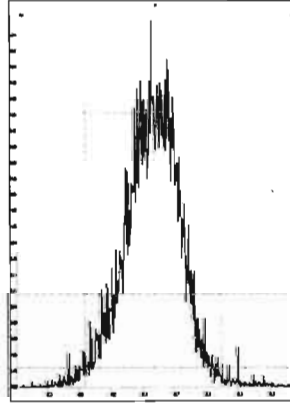
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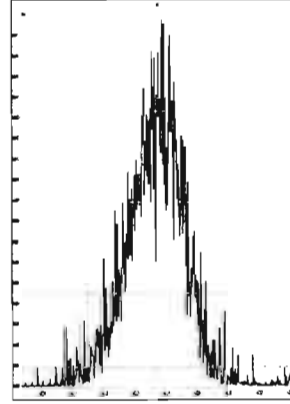
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M 430.9728 R 11749

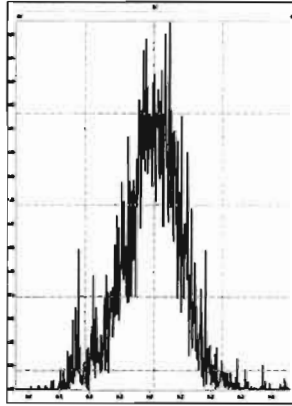


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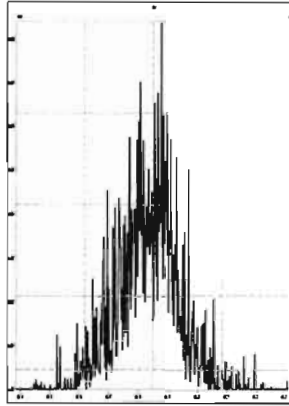


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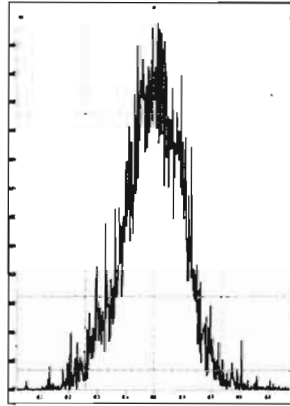
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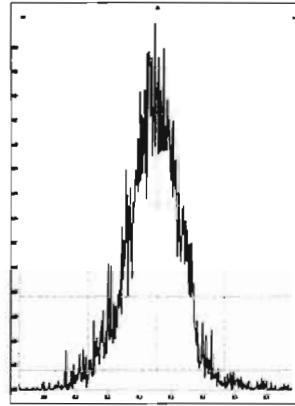
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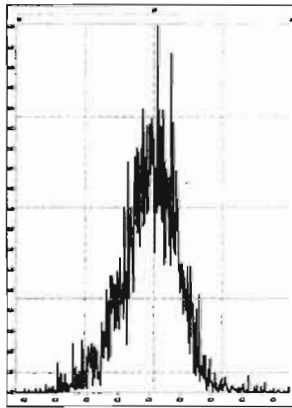
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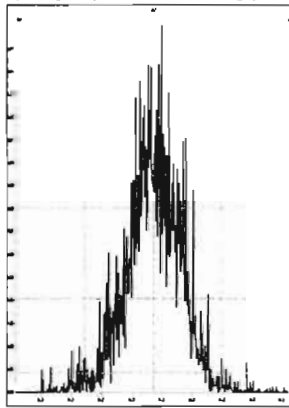
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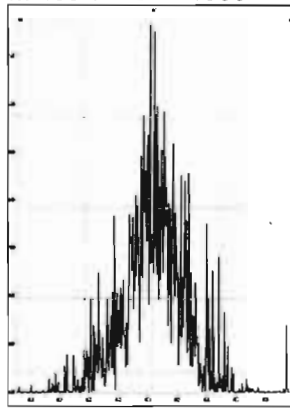
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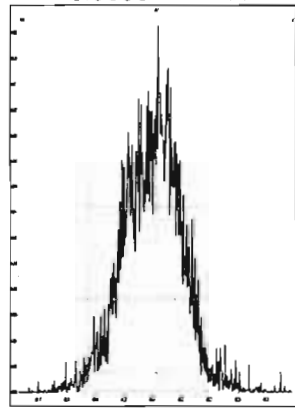
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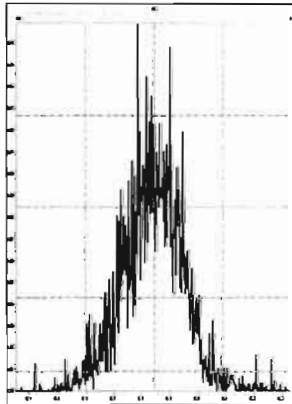
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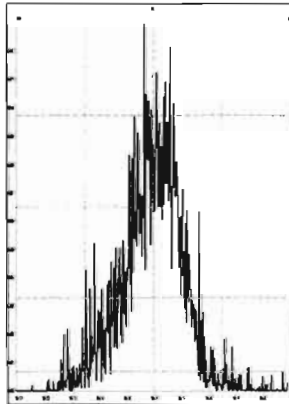
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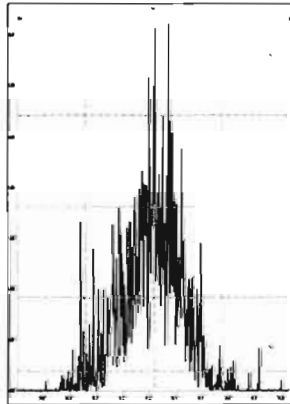
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M 504.9696 R 14127



M 516.9697 R 16050



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Printed: Tuesday, November 10, 2020 6:54:53 AM Pacific Standard Time

Method: Untitled 24 Oct 2020 08:05:27  
Calibration: 10 Nov 2020 06:54:37

Name: 201109R2\_2, Date: 09-Nov-2020, Time: 20:13:30, ID: ST201109R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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2	2 1,2,8,9-TCDD (Last)	27.04
3	3 1,2,4,7,9-PeCDD (First)	28.60
4	4 1,2,3,8,9-PeCDD (Last)	31.22
5	5 1,2,4,6,7,9-HxCDD (First)	32.55
6	6 1,2,3,7,8,9-HxCDD (Last)	34.58
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.05
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.08
9	9 1,3,6,8-TCDF (First)	20.14
10	10 1,2,8,9-TCDF (Last)	27.35
11	11 1,3,4,6,8-PeCDF (First)	26.94
12	12 1,2,3,8,9-PeCDF (Last)	31.58
13	13 1,2,3,4,6,8-HxCDF (First)	32.01
14	14 1,2,3,7,8,9-HxCDF (Last)	35.08
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.67
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.71



Dataset: Untitled

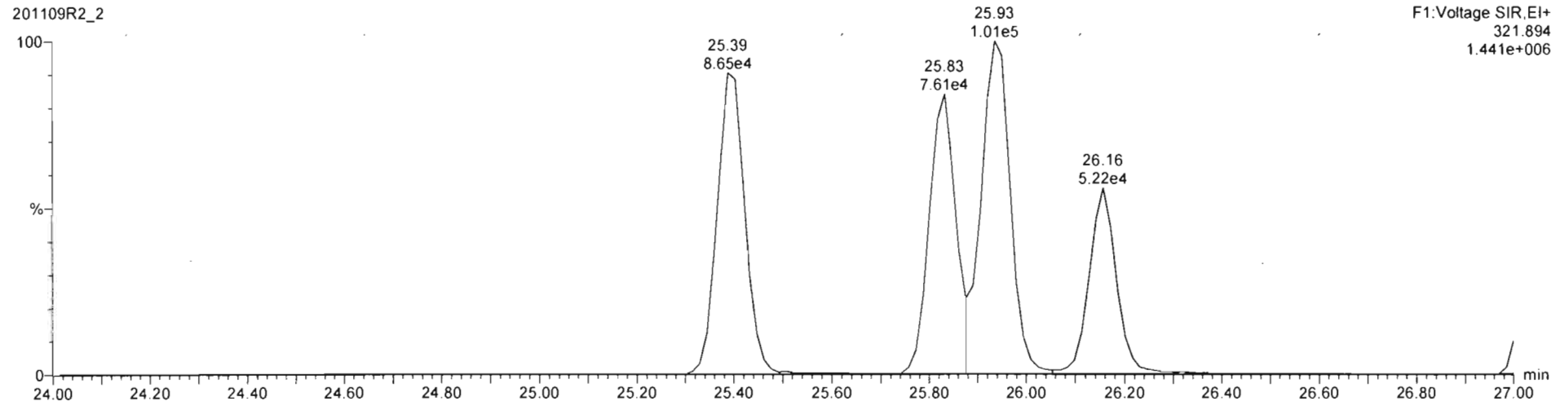
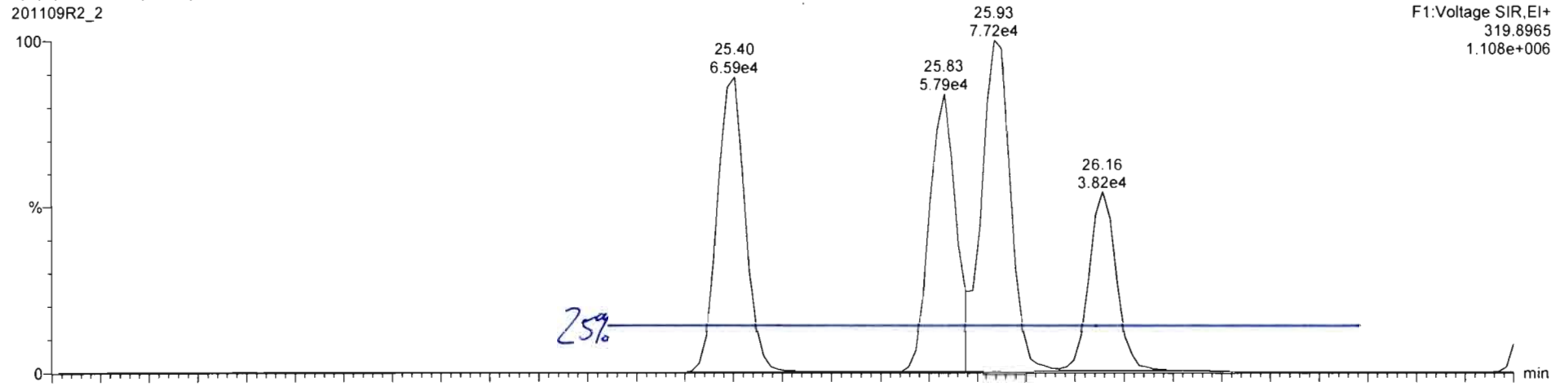
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GRB 11/09/2020  
dy 11/10/2020

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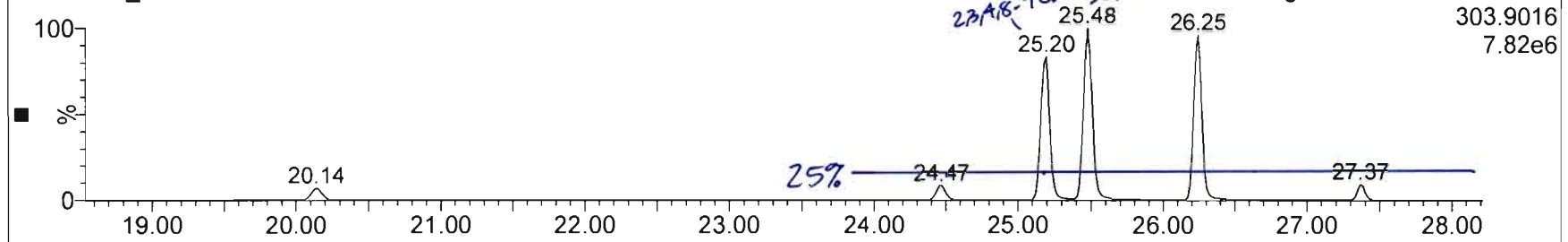
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201109R2\_2



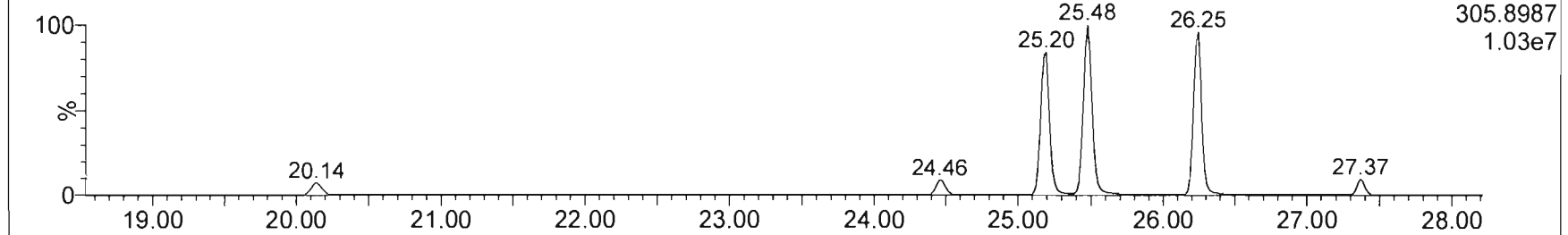
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### TCDF CPSM QC

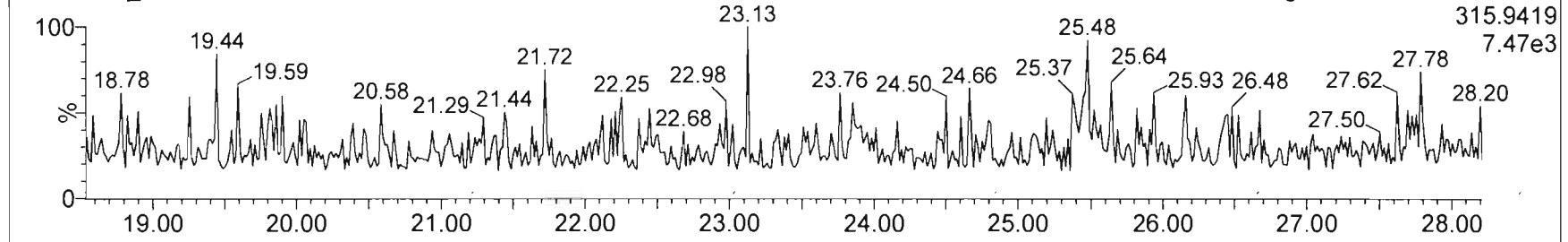
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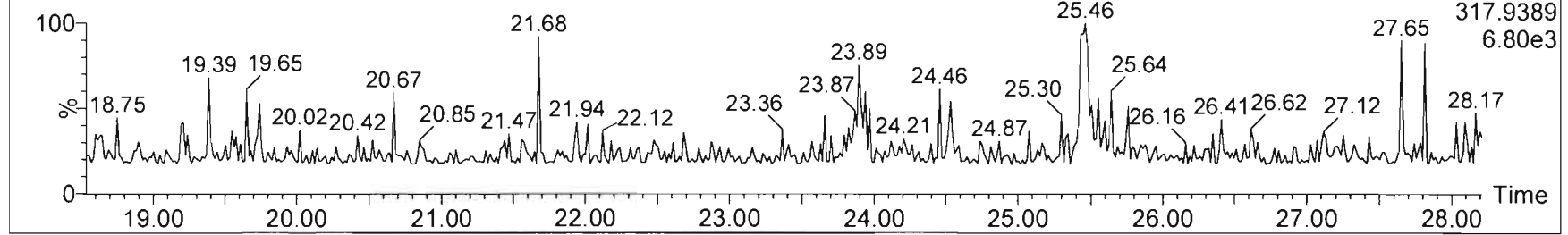
201109R2\_3



201109R2\_3



201109R2\_3



Dataset: Untitled

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Printed: Tuesday, November 10, 2020 6:56:28 AM Pacific Standard Time

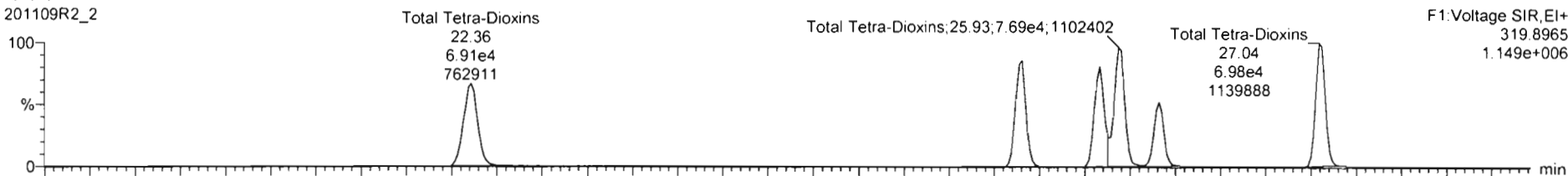
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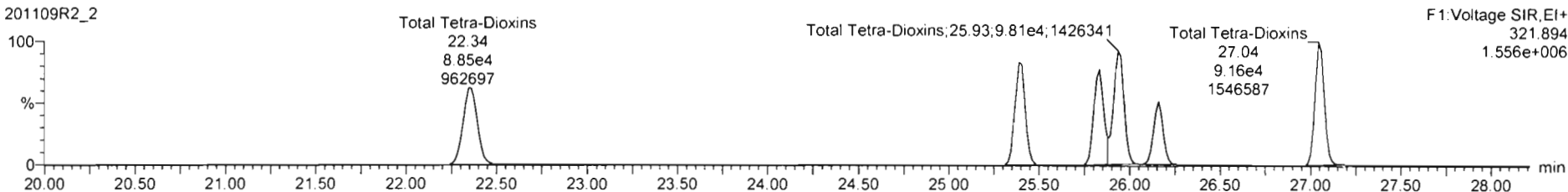
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**2,3,7,8-TCDD**

201109R2\_2

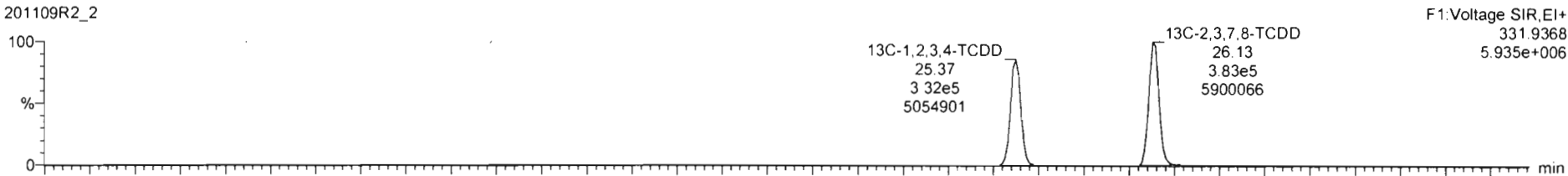


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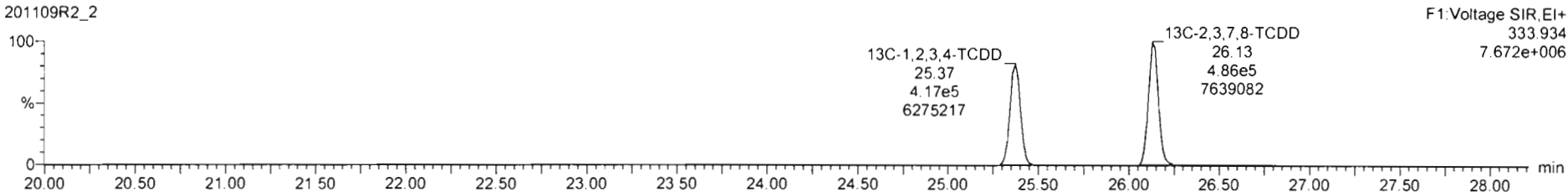


**13C-2,3,7,8-TCDD**

201109R2\_2



201109R2\_2



Dataset: Untitled

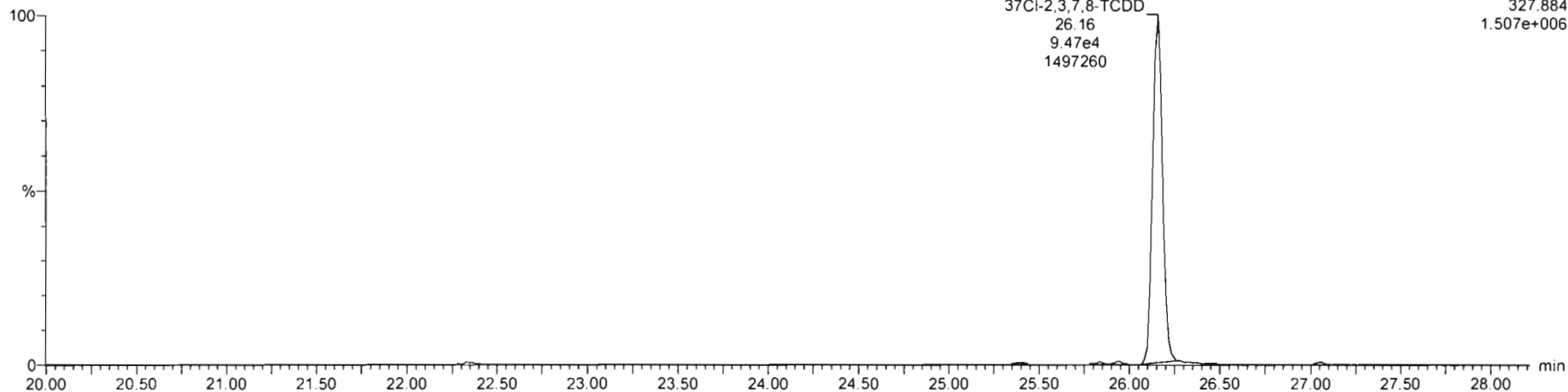
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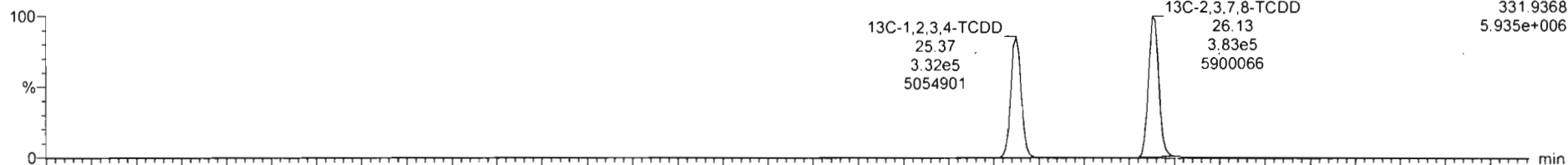
**37Cl-2,3,7,8-TCDD**

201109R2\_2

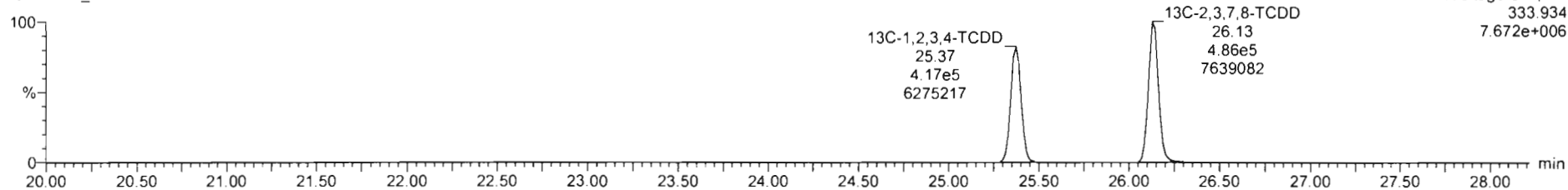


**13C-1,2,3,4-TCDD**

201109R2\_2



201109R2\_2



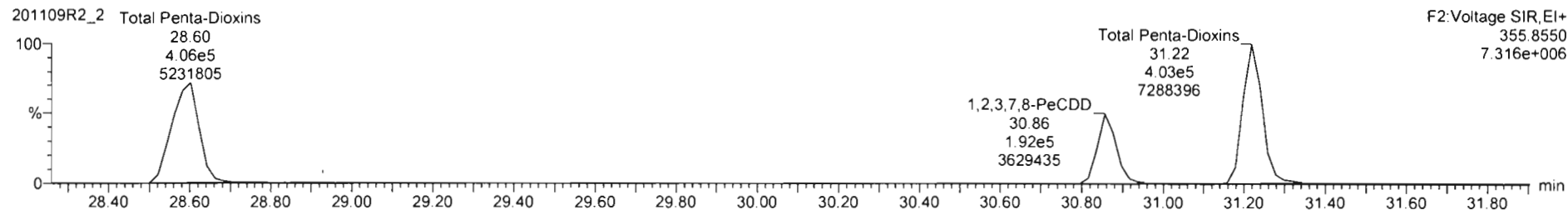
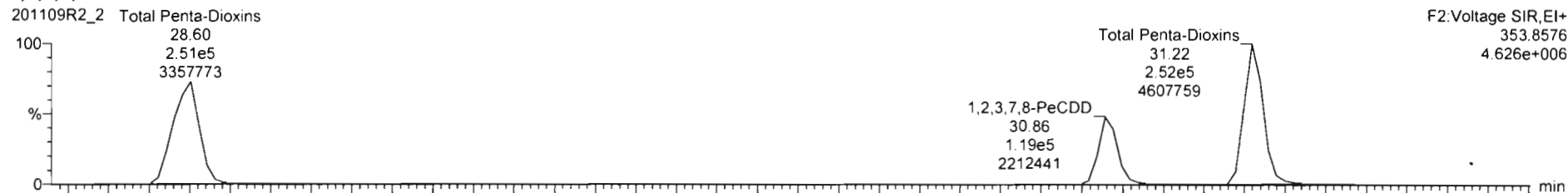
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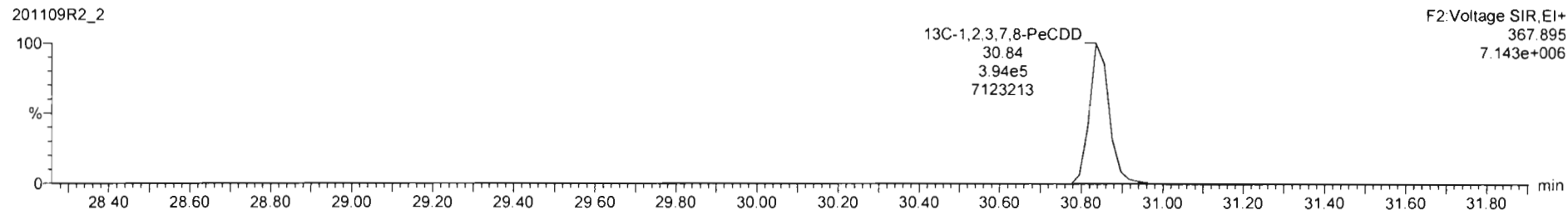
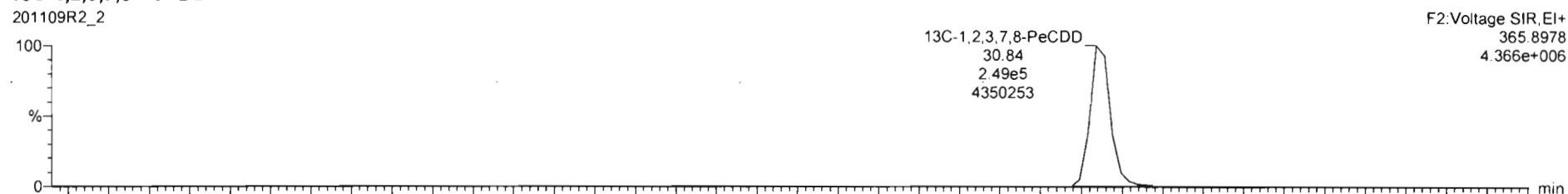
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Name: 201109R2\_2, Date: 09-Nov-2020, Time: 20:13:30, ID: ST201109R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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



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



Dataset: Untitled

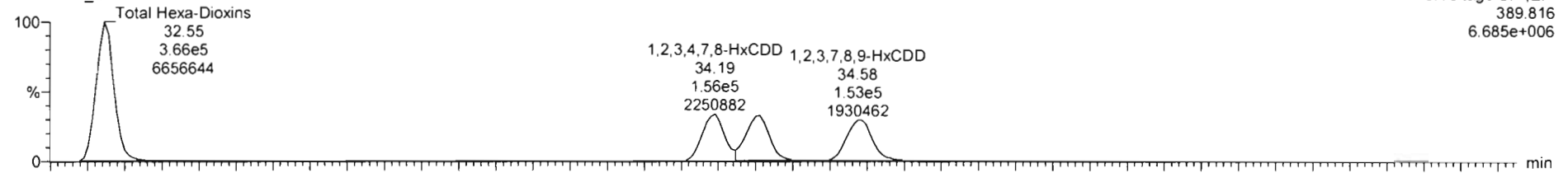
Last Altered: Tuesday, November 10, 2020 6:55:45 AM Pacific Standard Time

Printed: Tuesday, November 10, 2020 6:56:28 AM Pacific Standard Time

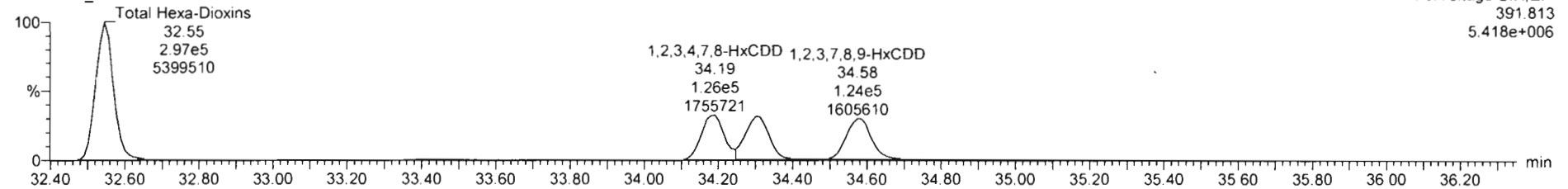
Name: 201109R2\_2, Date: 09-Nov-2020, Time: 20:13:30, ID: ST201109R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201109R2\_2

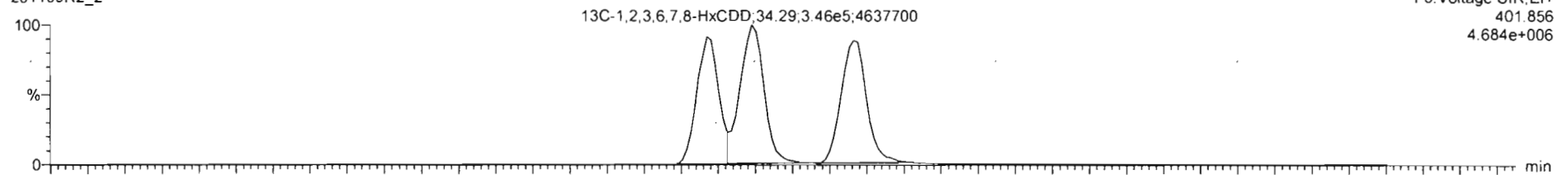


201109R2\_2

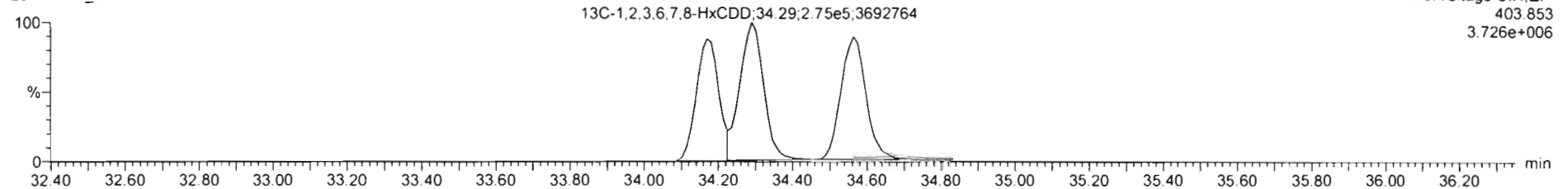


**13C-1,2,3,4,7,8-HxCDD**

201109R2\_2



201109R2\_2



Dataset: Untitled

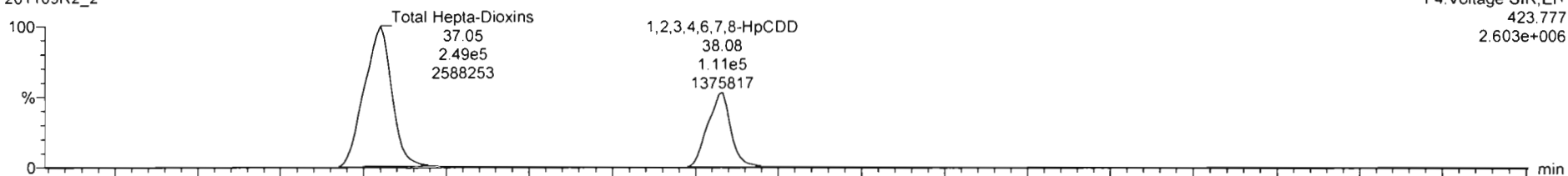
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Printed: Tuesday, November 10, 2020 6:56:28 AM Pacific Standard Time

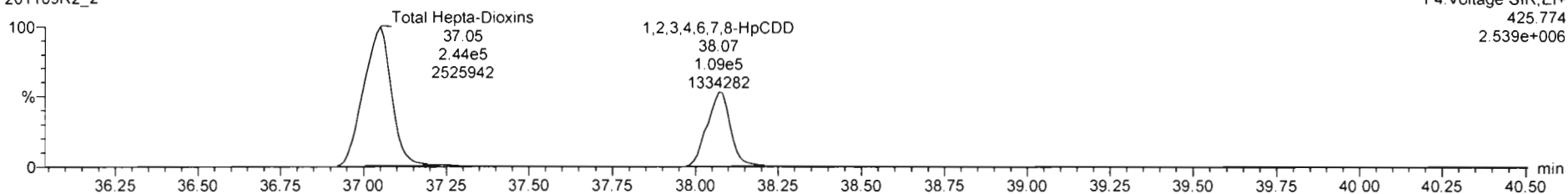
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**1,2,3,4,6,7,8-HpCDD**

201109R2\_2

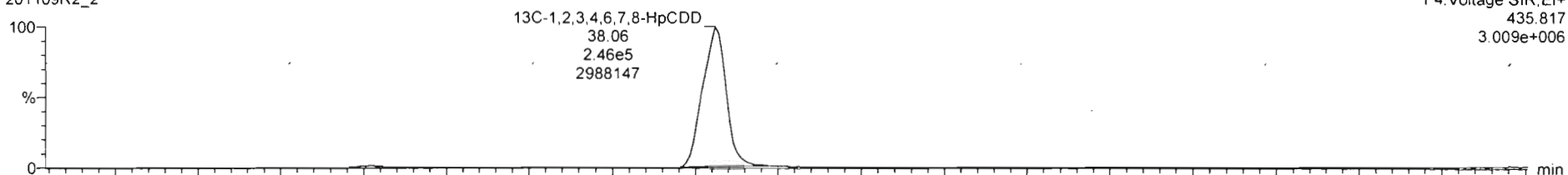


201109R2\_2

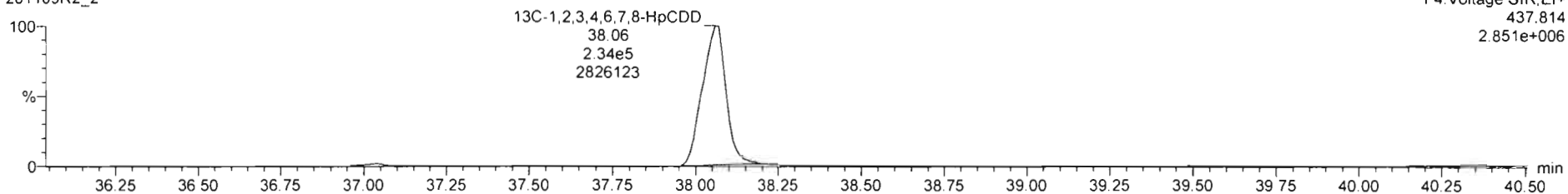


**13C-1,2,3,4,6,7,8-HpCDD**

201109R2\_2



201109R2\_2

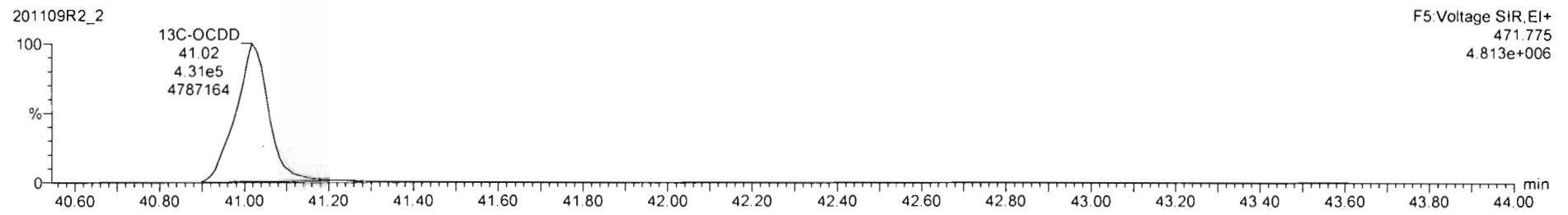
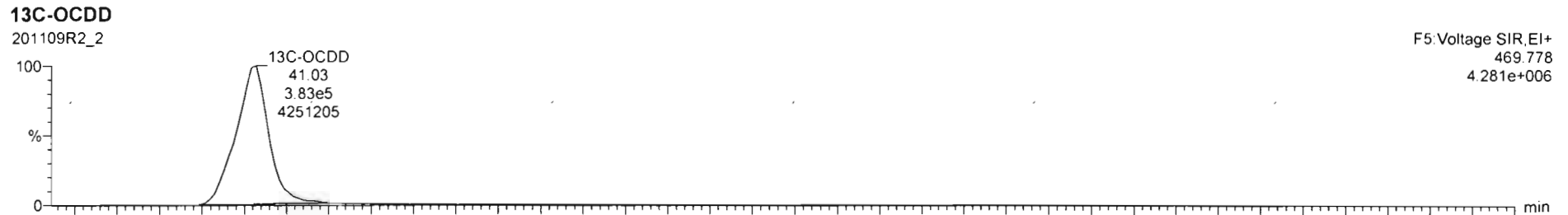
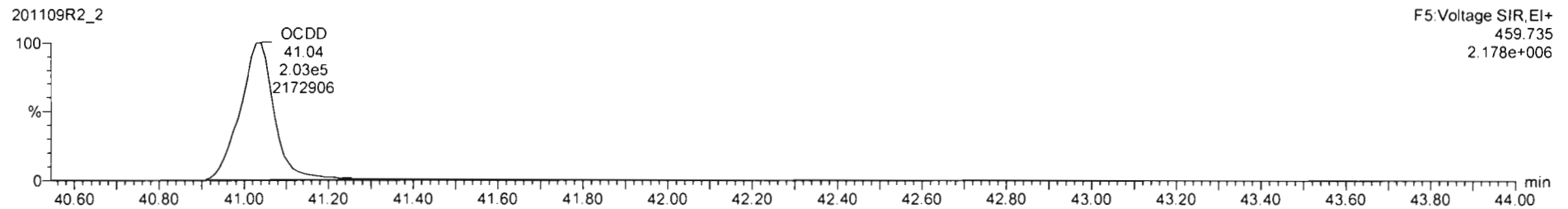
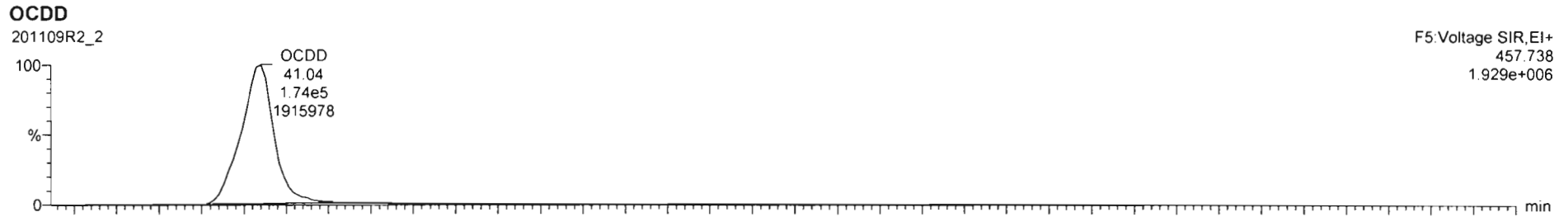


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Last Altered: Tuesday, November 10, 2020 6:55:45 AM Pacific Standard Time

Printed: Tuesday, November 10, 2020 6:56:28 AM Pacific Standard Time

Name: 201109R2\_2, Date: 09-Nov-2020, Time: 20:13:30, ID: ST201109R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105





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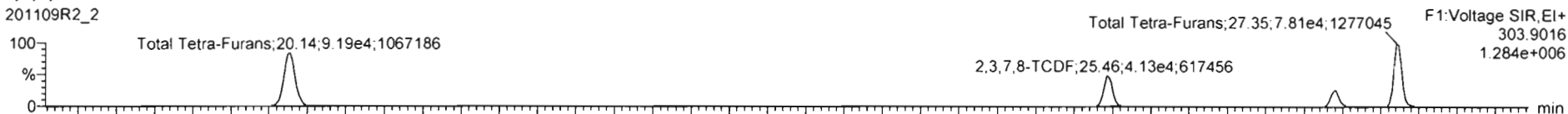
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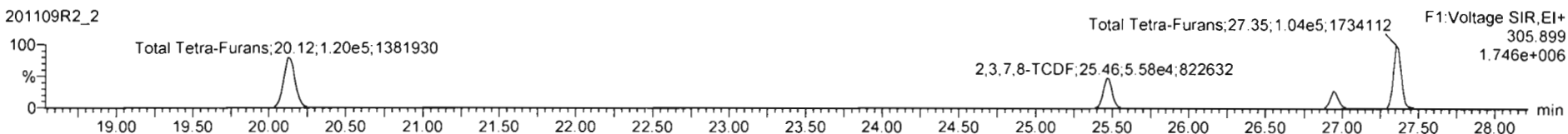
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**2,3,7,8-TCDF**

201109R2\_2

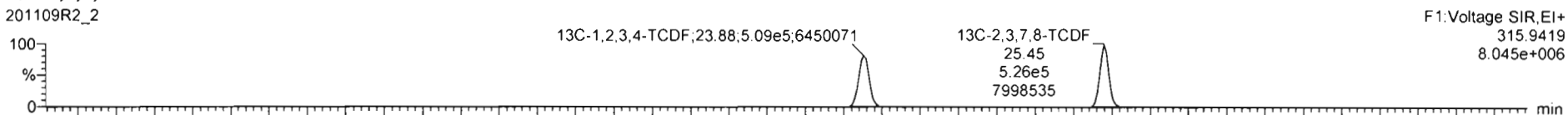


201109R2\_2

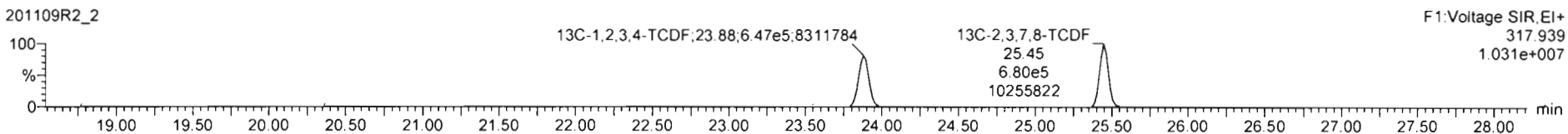


**13C-2,3,7,8-TCDF**

201109R2\_2

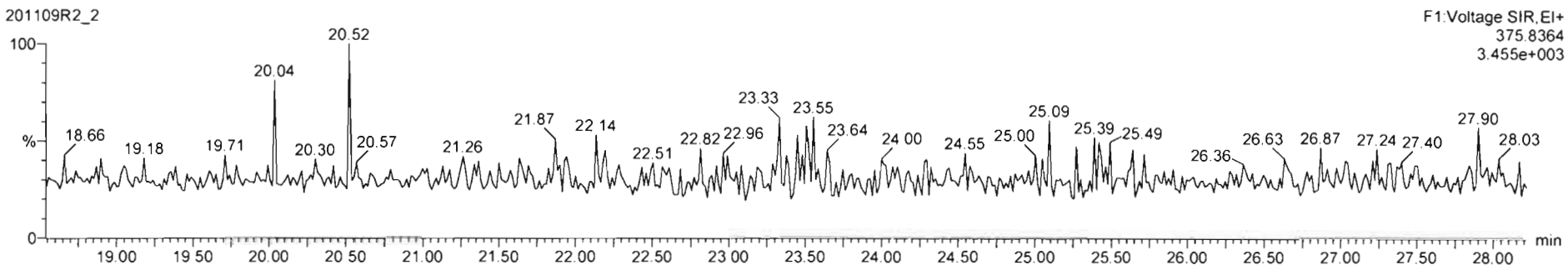


201109R2\_2



**DPE1**

201109R2\_2



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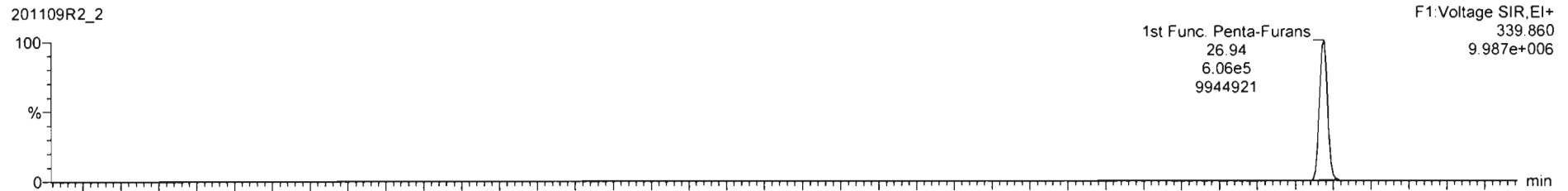
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Printed: Tuesday, November 10, 2020 6:56:28 AM Pacific Standard Time

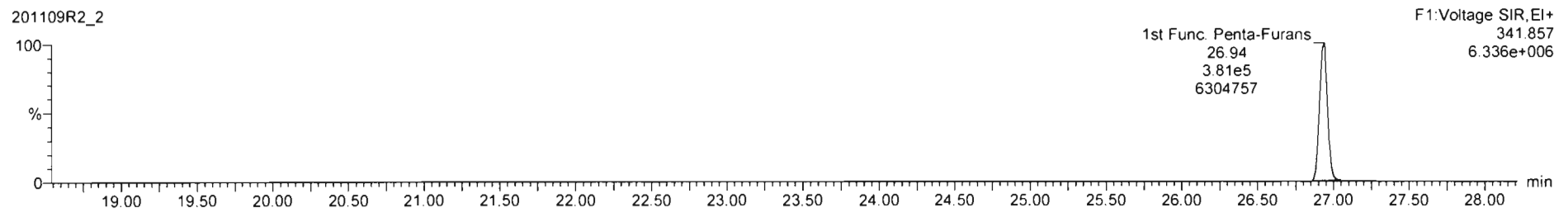
Name: 201109R2\_2, Date: 09-Nov-2020, Time: 20:13:30, ID: ST201109R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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201109R2\_2

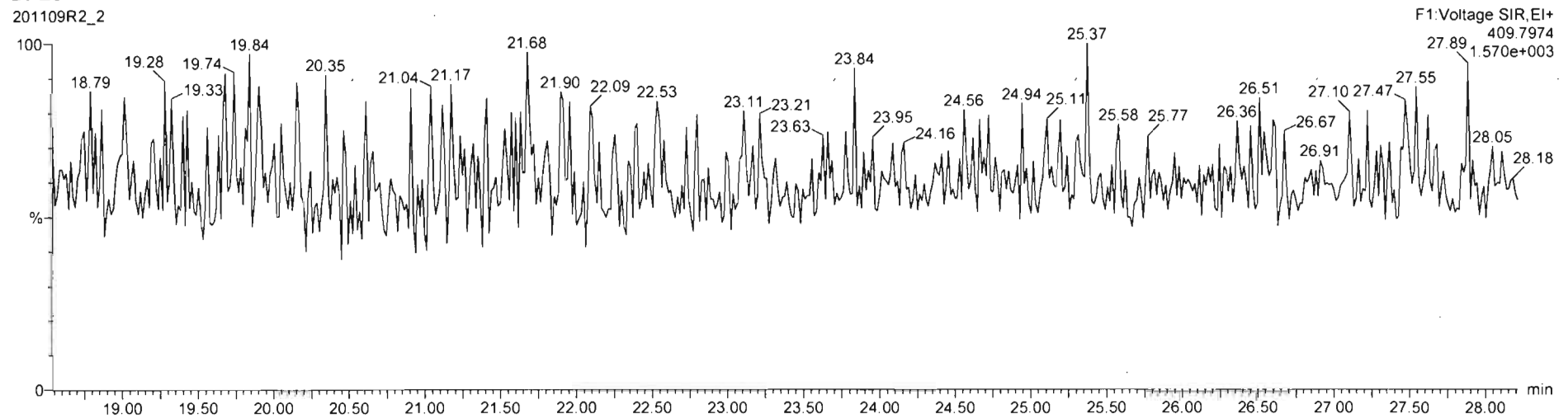


201109R2\_2



DPE6

201109R2\_2



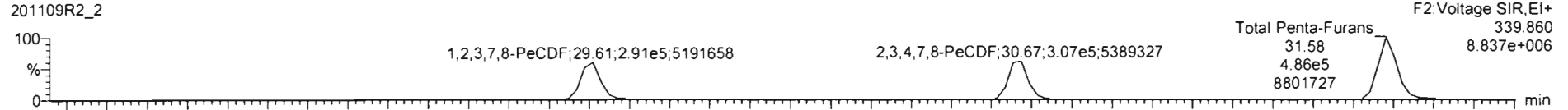
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Last Altered: Tuesday, November 10, 2020 6:55:45 AM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 6:56:28 AM Pacific Standard Time

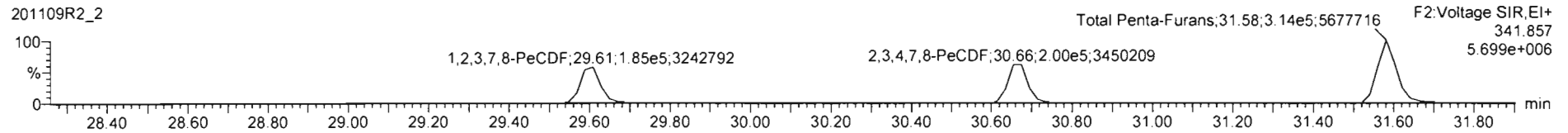
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**1,2,3,7,8-PeCDF**

201109R2\_2

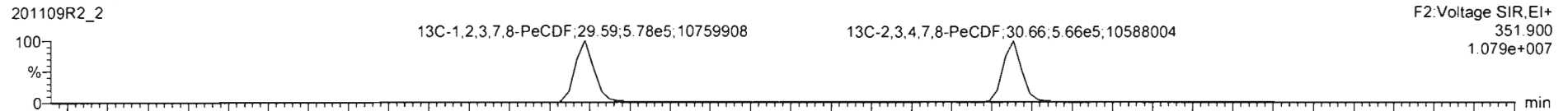


201109R2\_2

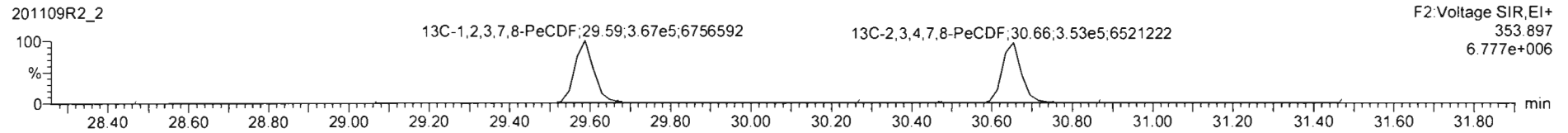


**13C-1,2,3,7,8-PeCDF**

201109R2\_2

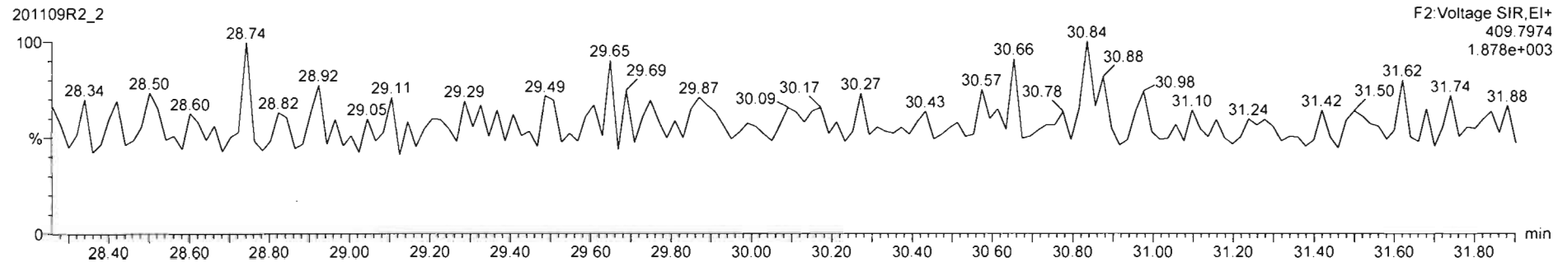


201109R2\_2



**DPE2**

201109R2\_2

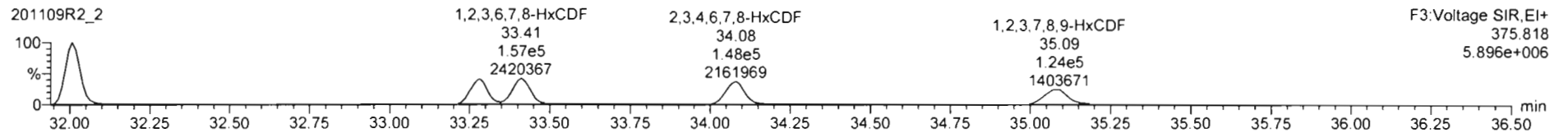
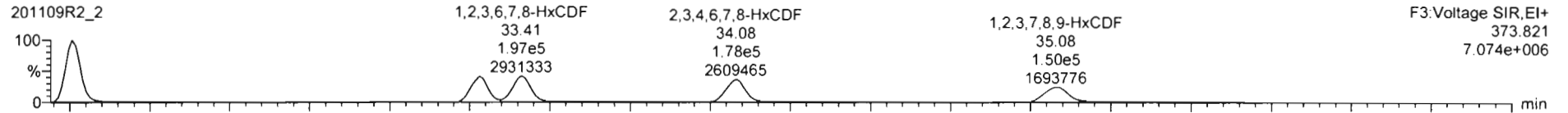


Dataset: Untitled

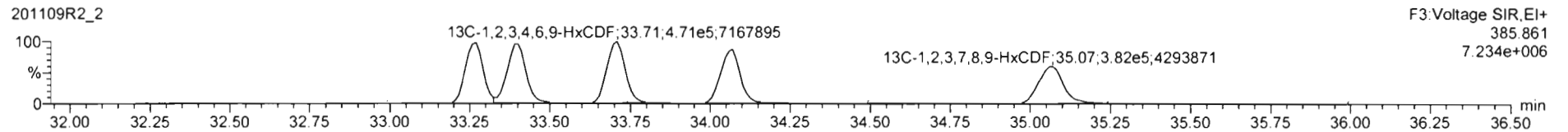
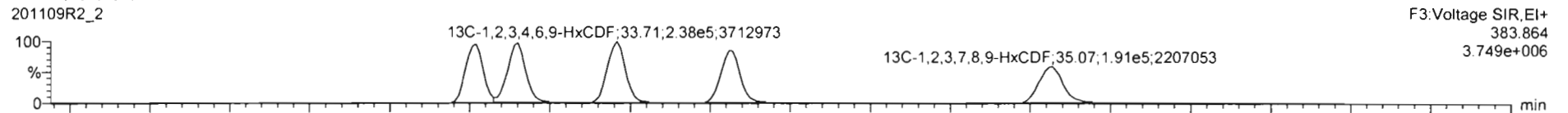
Last Altered: Tuesday, November 10, 2020 6:55:45 AM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 6:56:28 AM Pacific Standard Time

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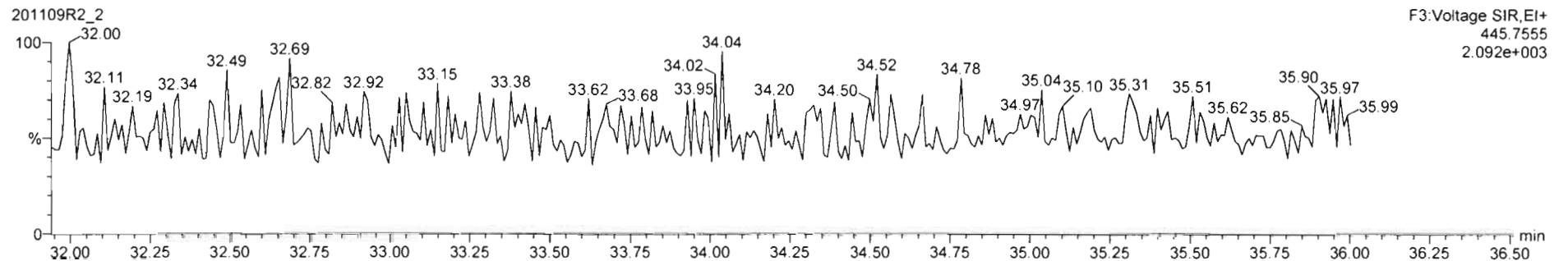
**1,2,3,4,7,8-HxCDF**



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



**DPE3**

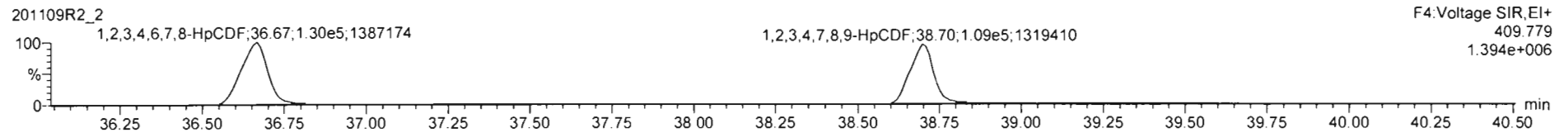
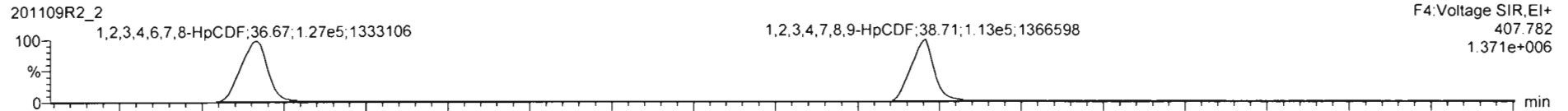


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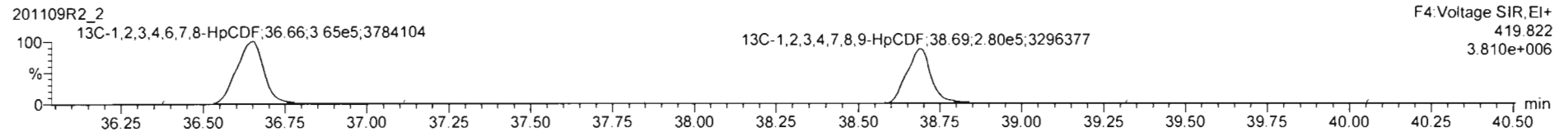
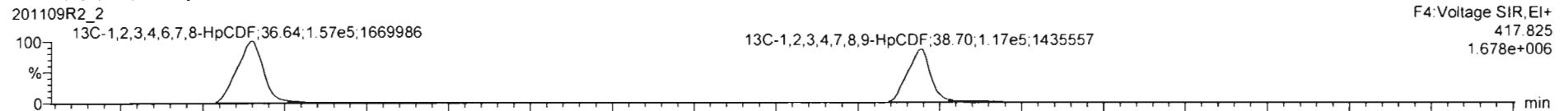
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Name: 201109R2\_2, Date: 09-Nov-2020, Time: 20:13:30, ID: ST201109R2\_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

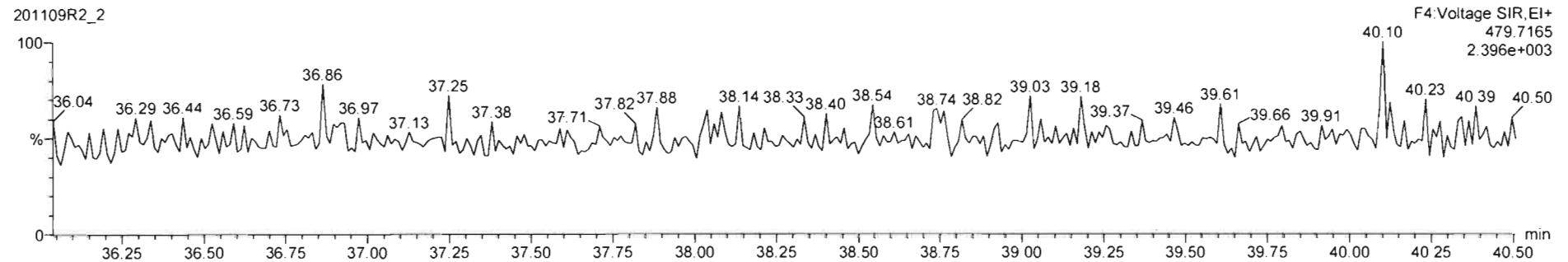
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**



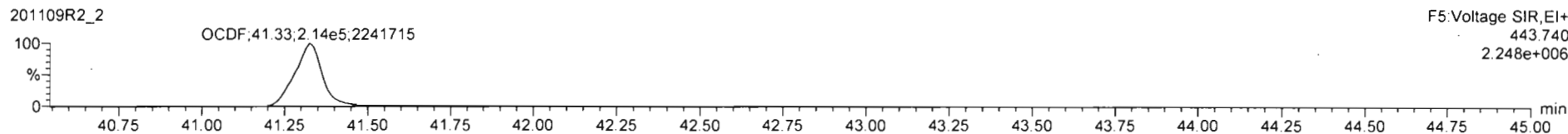
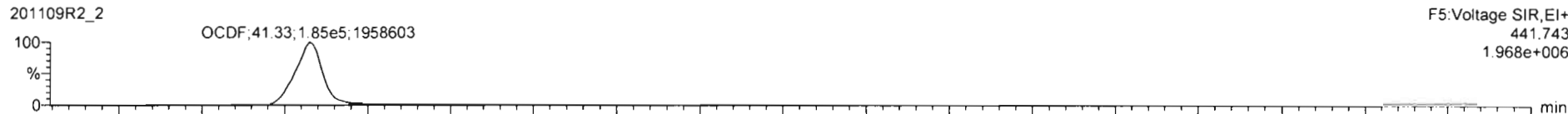
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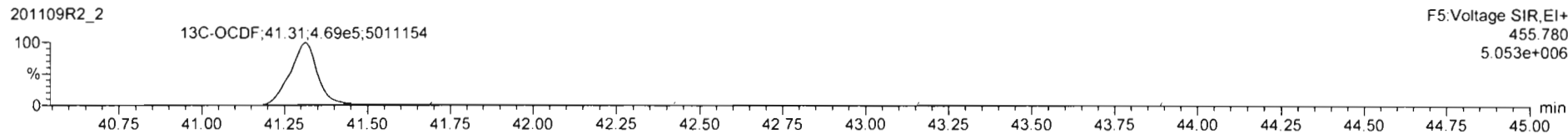
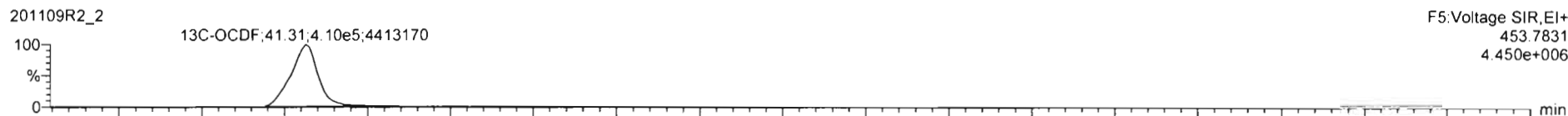
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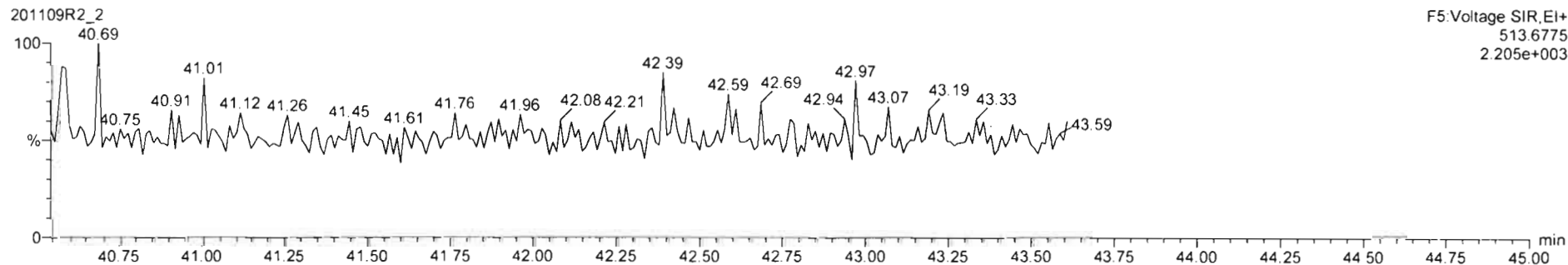
**OCDF**

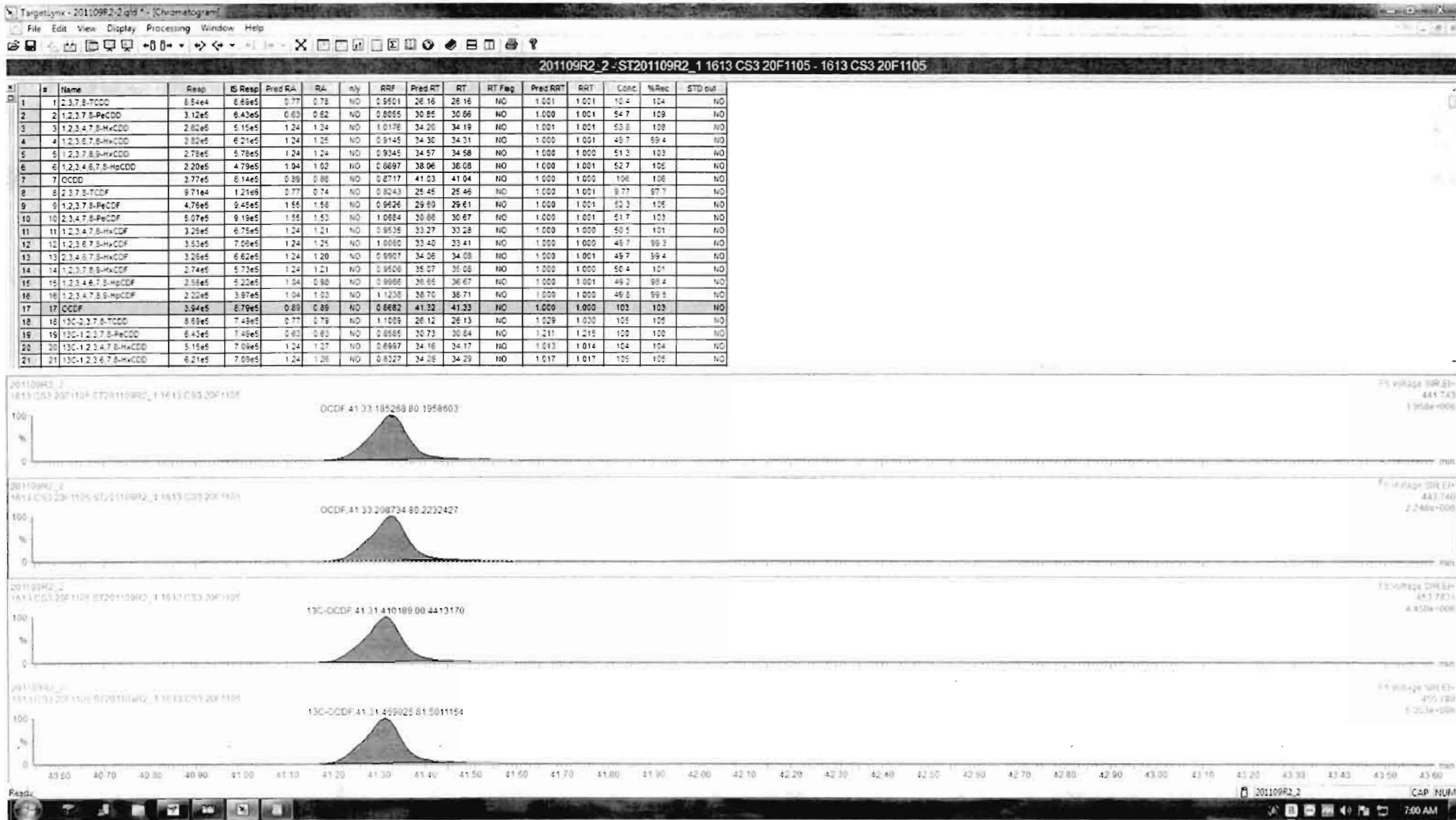


**13C-OCDF**



**DPE5**

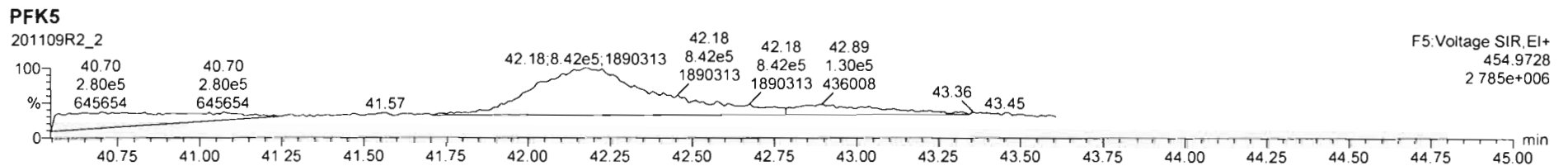
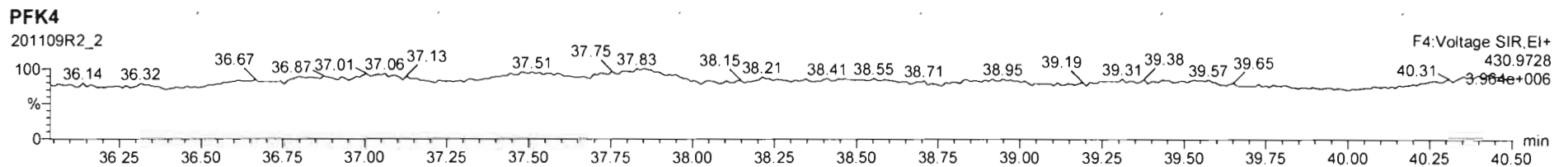
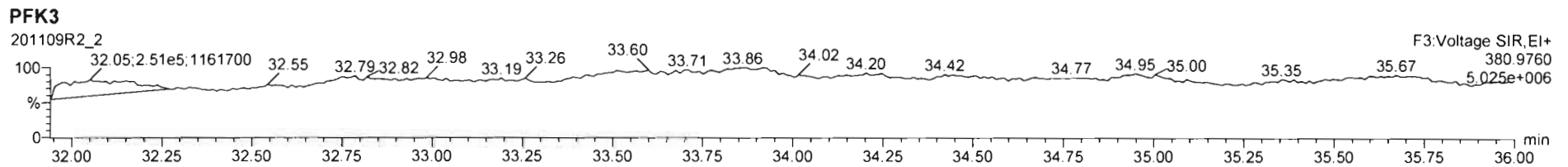
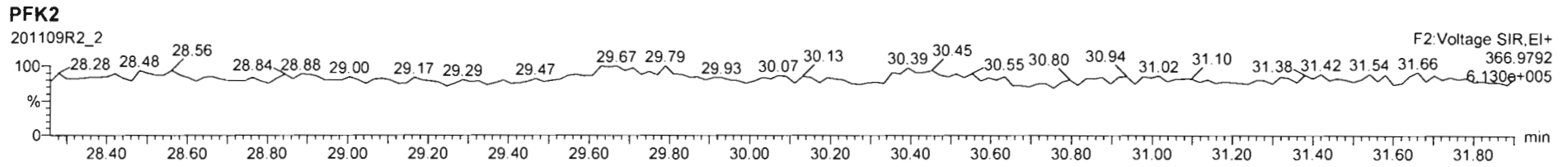
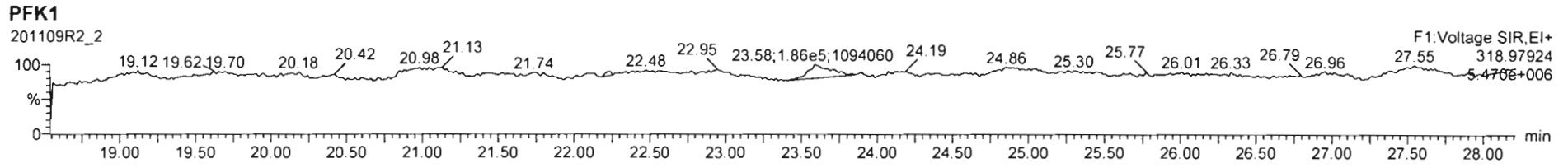




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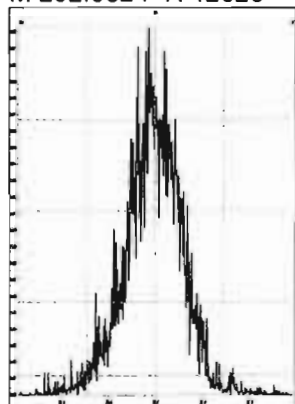
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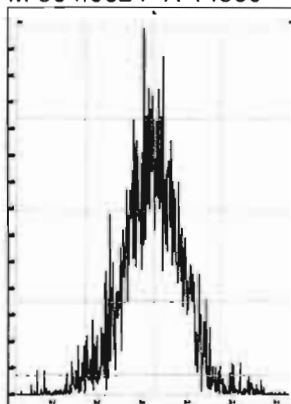




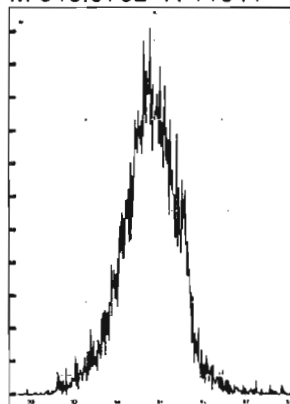
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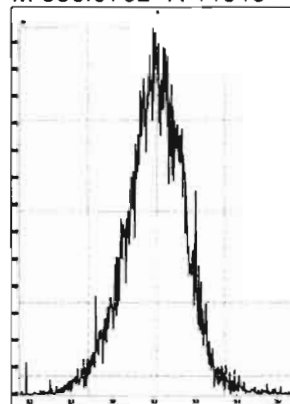
M 304.9824 R 14369



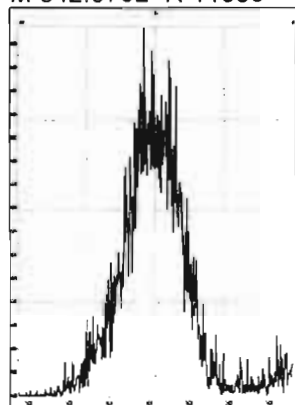
M 318.9792 R 11041



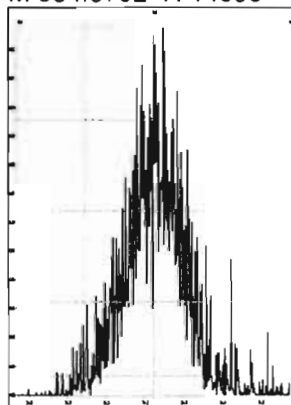
M 330.9792 R 11013



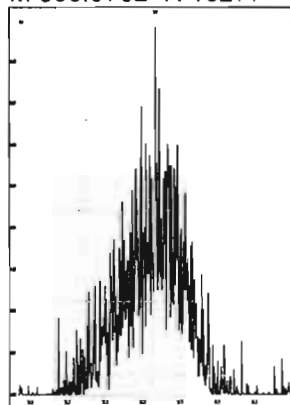
M 342.9792 R 11366



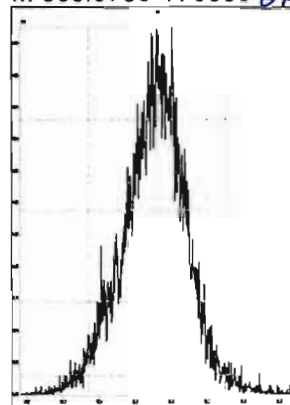
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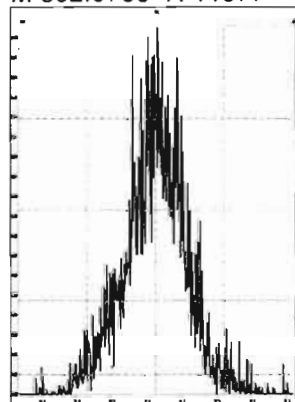
M 366.9792 R 16277



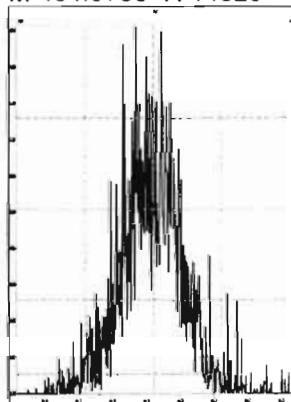
M 380.9760 R 9868 *ok*



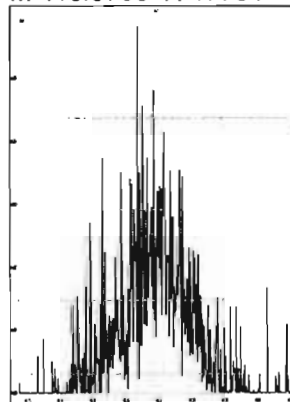
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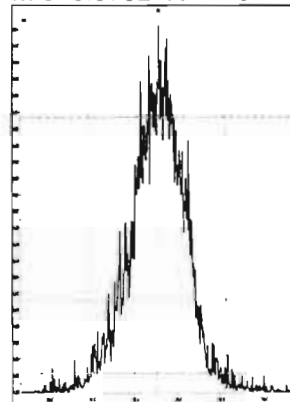
M 404.9760 R 14329



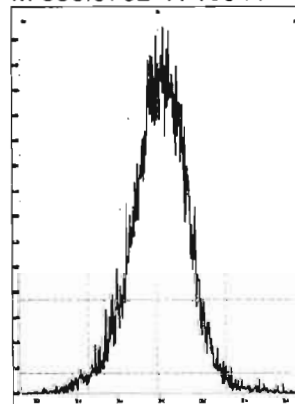
M 416.9760 R 17704



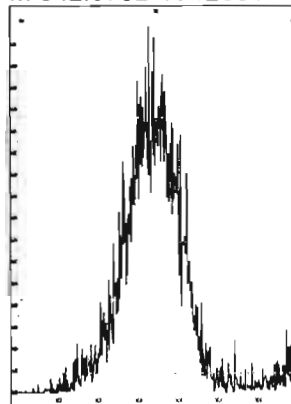
M 318.9792 R 11732



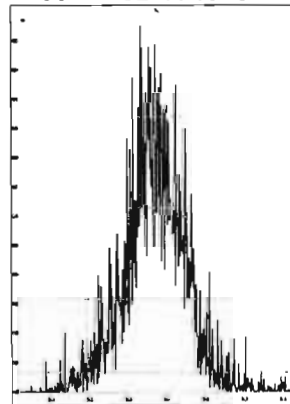
M 330.9792 R 10941



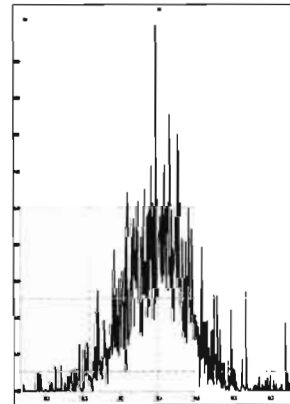
M 342.9792 R 12001



M 354.9792 R 13464

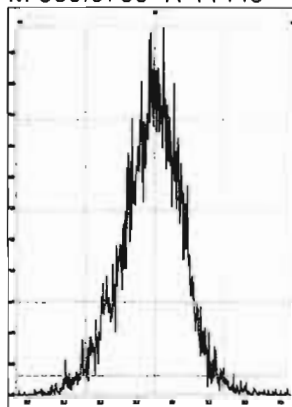


M 366.9792 R 14206

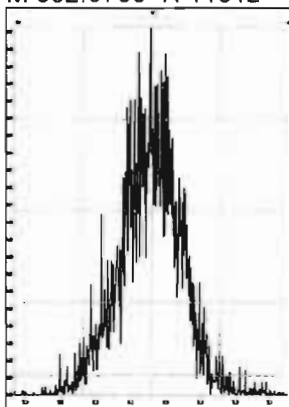


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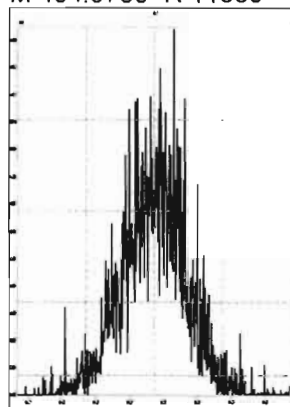
M 380.9760 R 11443



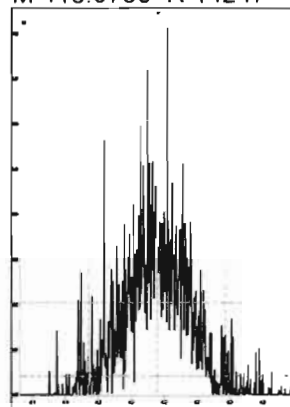
M 392.9760 R 11312



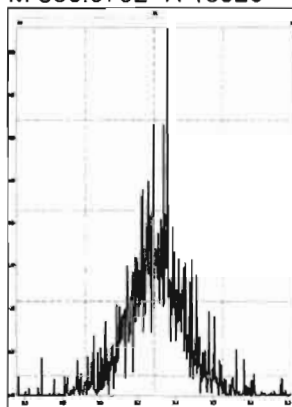
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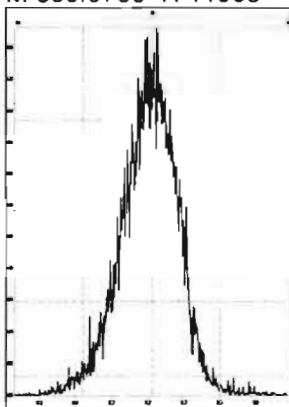
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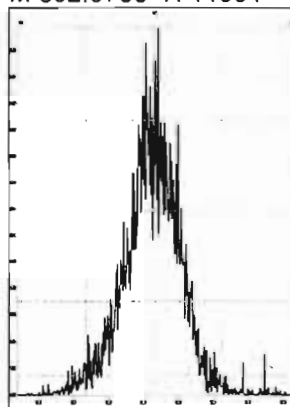
M 366.9792 R 16025



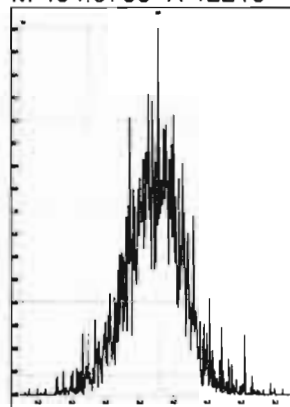
M 380.9760 R 11038



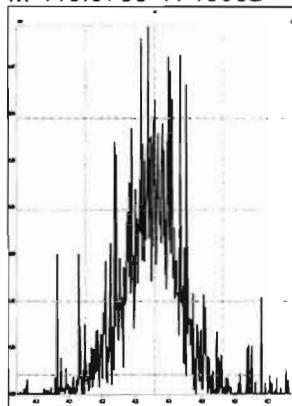
M 392.9760 R 11991



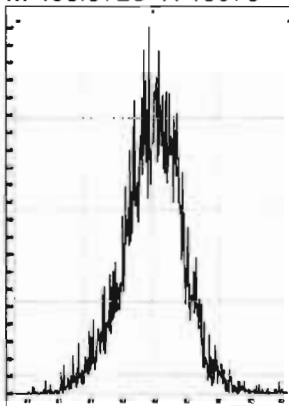
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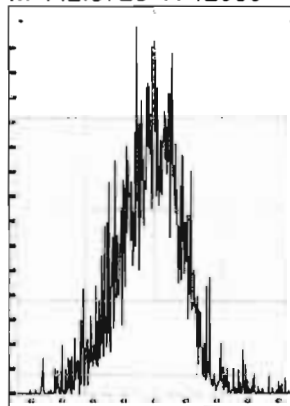
M 416.9760 R 16562



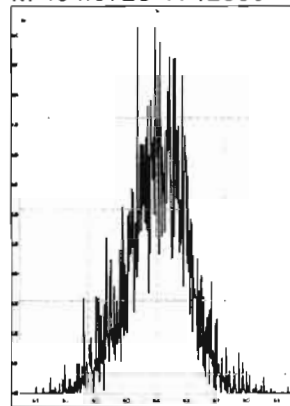
M 430.9728 R 10579



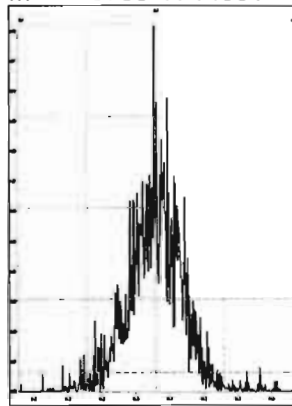
M 442.9728 R 12565



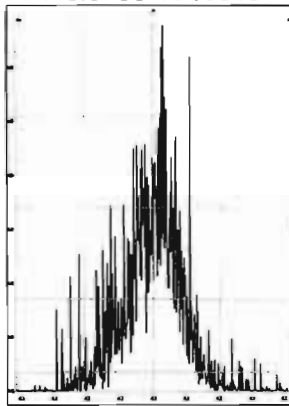
M 454.9728 R 12695



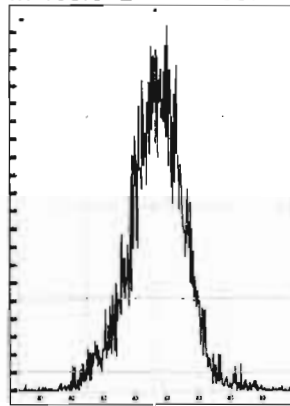
M 404.9760 R 14001



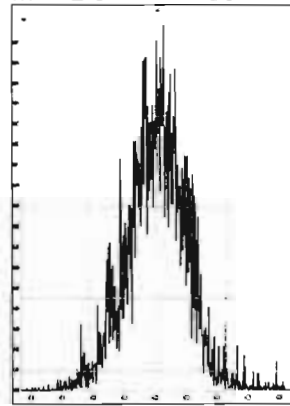
M 416.9760 R 16010



M 430.9728 R 11337

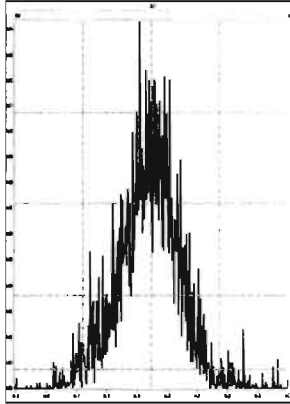


M 442.9728 R 12390

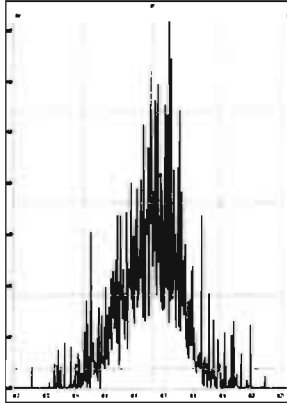


Printed: Tuesday, November 10, 2020 06:51:04 Pacific Standard Time

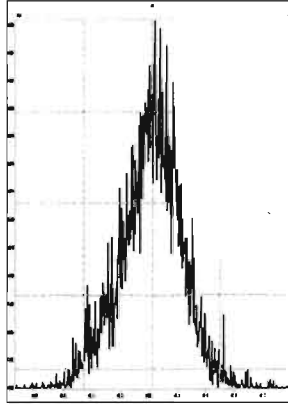
M 454.9728 R 12603



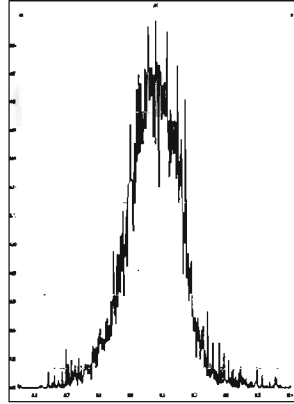
M 466.9728 R 15089



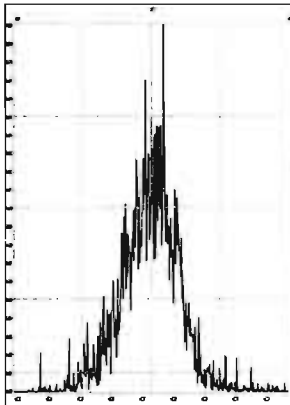
M 480.9696 R 10666



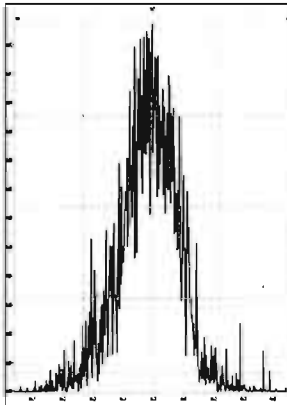
M 430.9728 R 12496



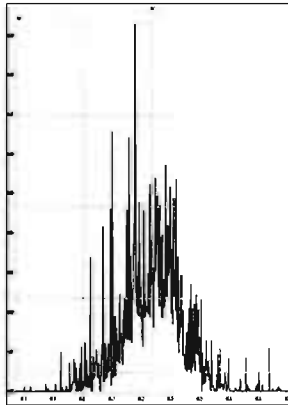
M 442.9728 R 14008



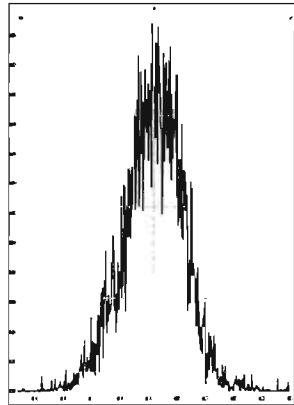
M 454.9728 R 12802



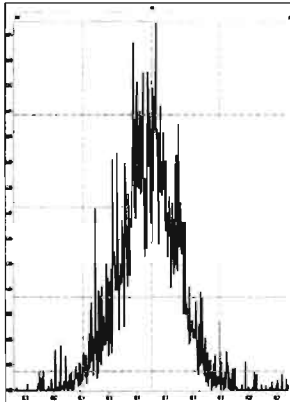
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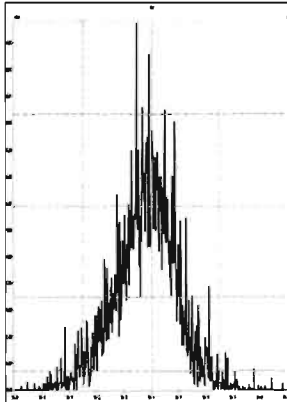
M 480.9696 R 10894



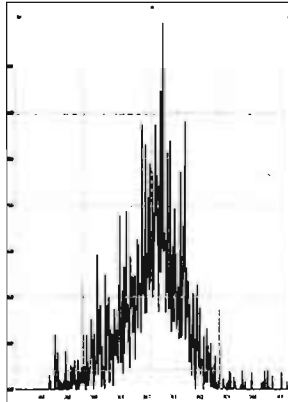
M 492.9696 R 13058



M 504.9696 R 13298



M 516.9697 R 17799



## HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201110R1-2

Reviewed By: HN 11/10/2020  
*Initials & Date*

End Calibration ID: NA

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

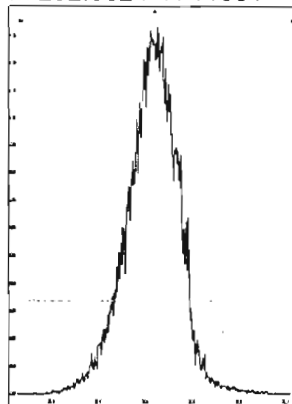
	<u>Beg.</u>	<u>End</u>
Mass resolution ≥	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614    1699    429    1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>NA</u>
GC Break <20%		<input checked="" type="checkbox"/> <u>NA</u>
<b>8280 CS1 End Standard:</b>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input checked="" type="checkbox"/> <u>NA</u>

**Comments:**

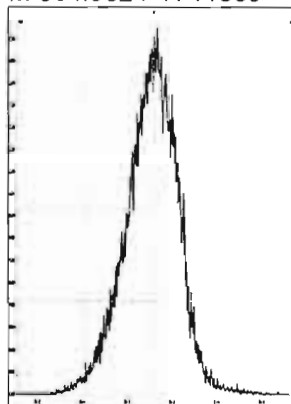
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, November 10, 2020 08:13:59 Pacific Standard Time

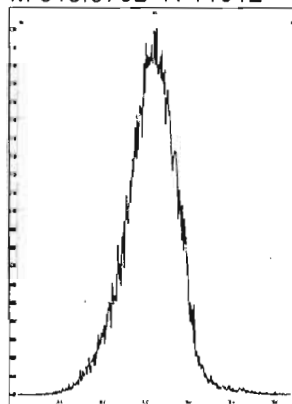
M 292.9824 R 11681



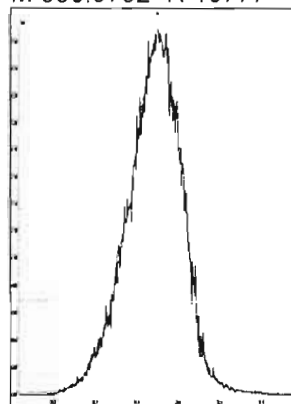
M 304.9824 R 11569



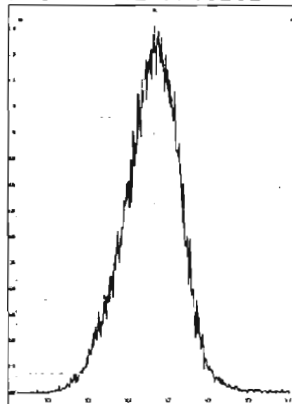
M 318.9792 R 11012



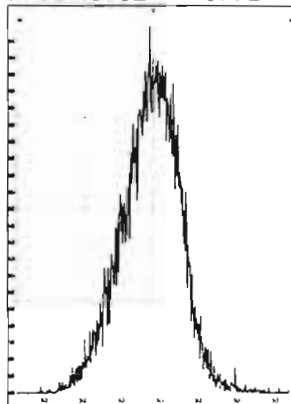
M 330.9792 R 10777



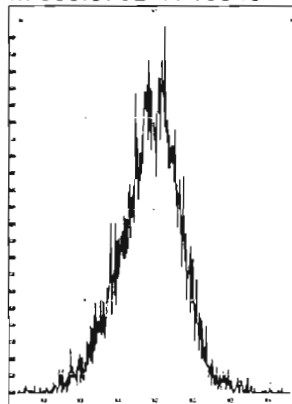
M 342.9792 R 10202



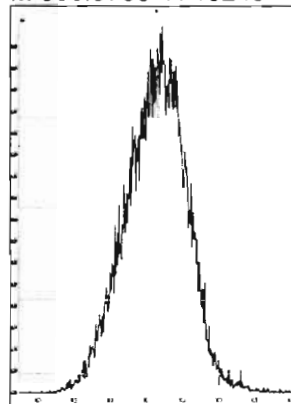
M 354.9792 R 10772



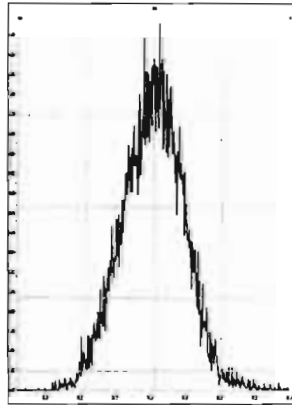
M 366.9792 R 10546



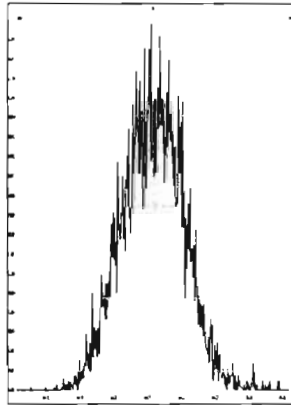
M 380.9760 R 10246



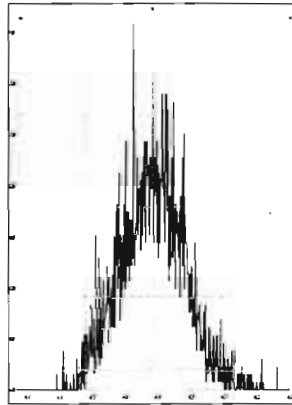
M 392.9760 R 10042



M 404.9760 R 10593



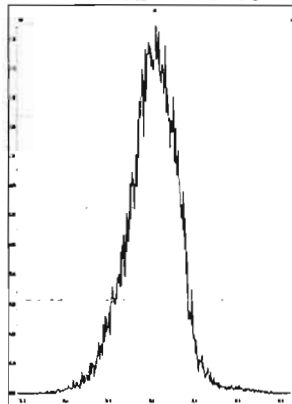
M 416.9760 R 10078



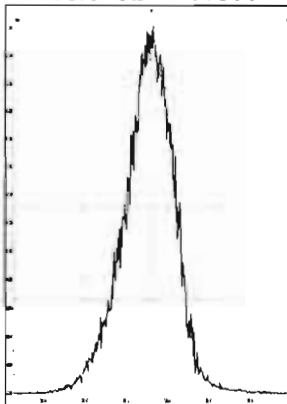
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, November 10, 2020 08:14:42 Pacific Standard Time

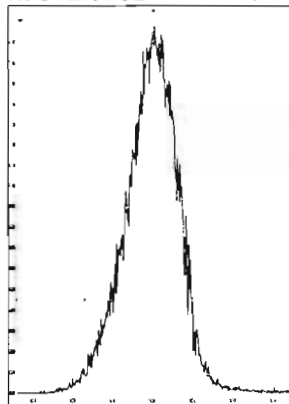
M 318.9792 R 12438



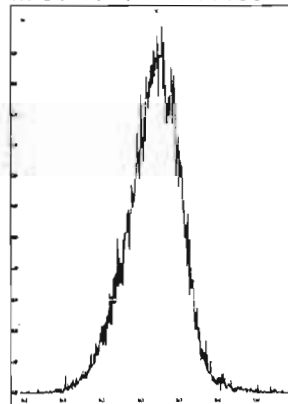
M 330.9792 R 11366



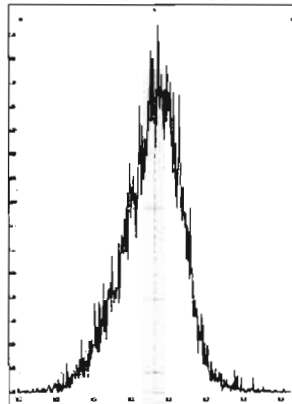
M 342.9792 R 11415



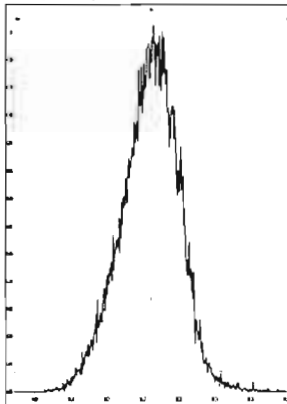
M 354.9792 R 11108



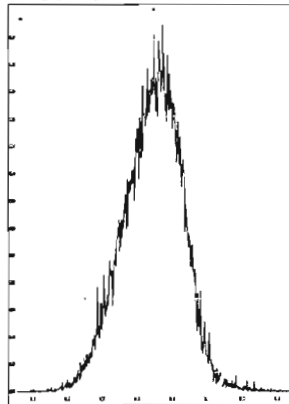
M 366.9792 R 10916



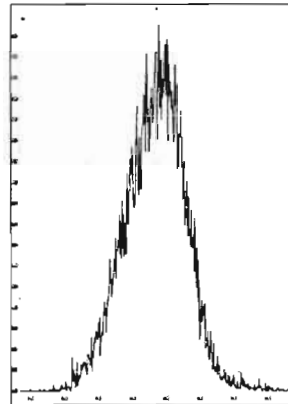
M 380.9760 R 10038



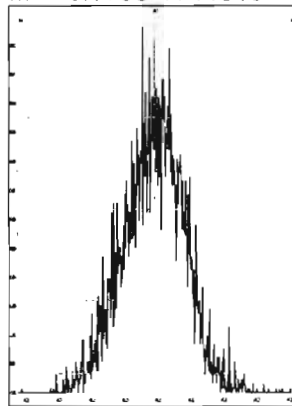
M 392.9760 R 10416



M 404.9760 R 10328



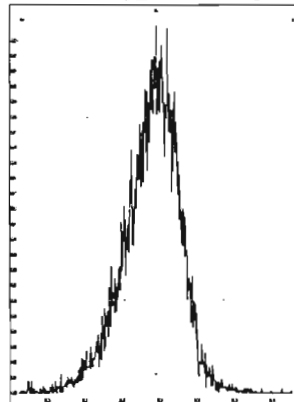
M 416.9760 R 11315



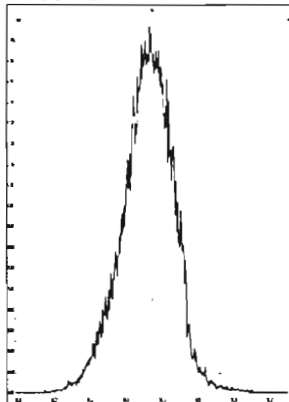
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, November 10, 2020 08:16:58 Pacific Standard Time

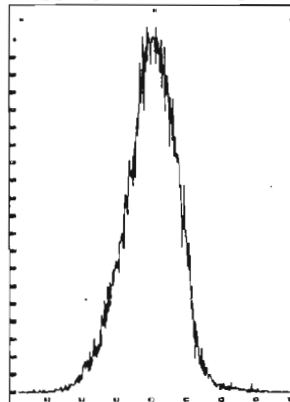
M 366.9792 R 11013



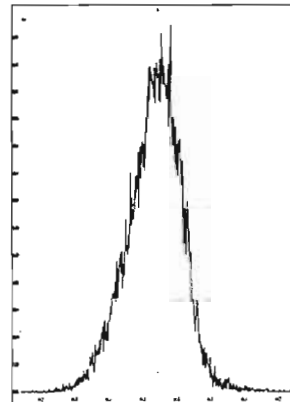
M 380.9760 R 11470



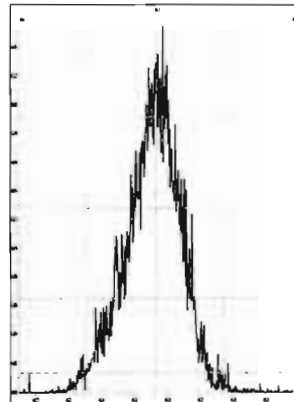
M 392.9760 R 11160



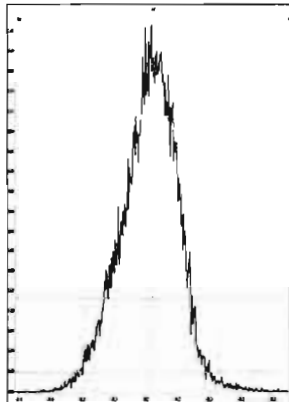
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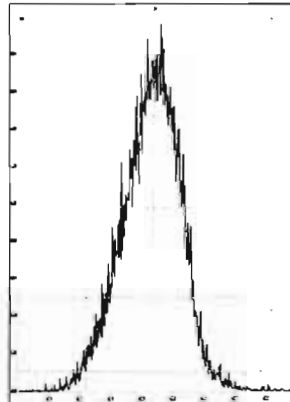
M 416.9760 R 11210



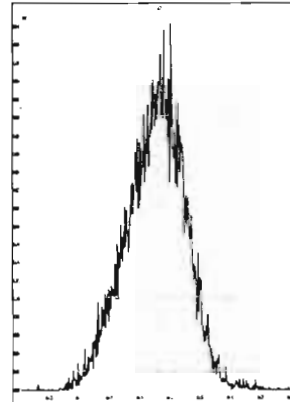
M 430.9728 R 10777



M 442.9728 R 10460



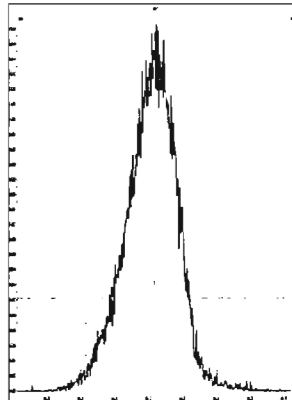
M 454.9728 R 10119



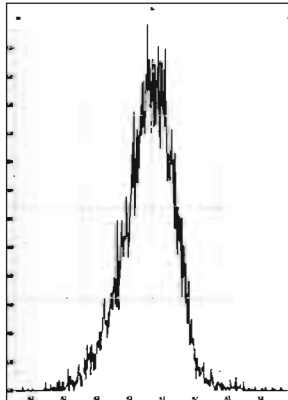
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, November 10, 2020 08:19:17 Pacific Standard Time

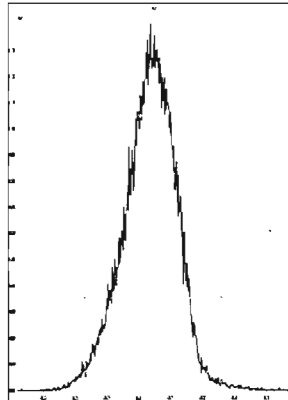
M 404.9760 R 12193



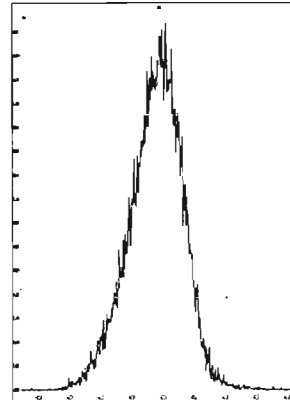
M 416.9760 R 12438



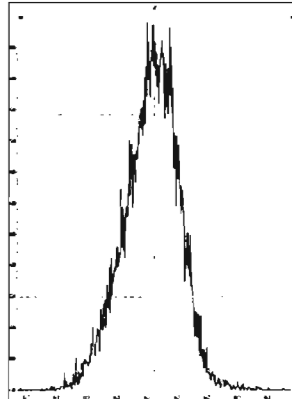
M 430.9728 R 11209



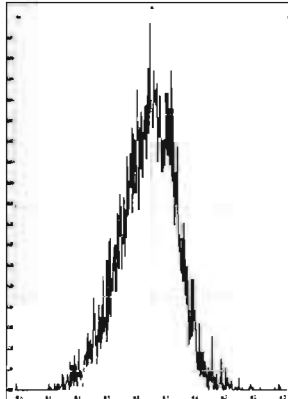
M 442.9728 R 11416



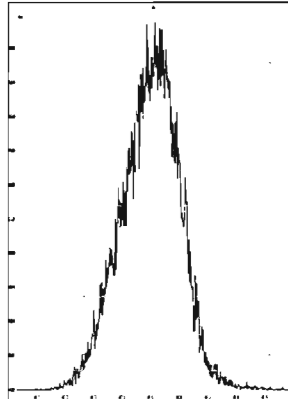
M 454.9728 R 10821



M 466.9728 R 11737



M 480.9696 R 10595

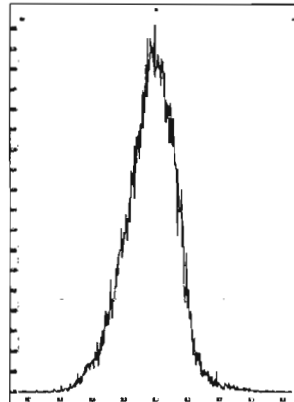




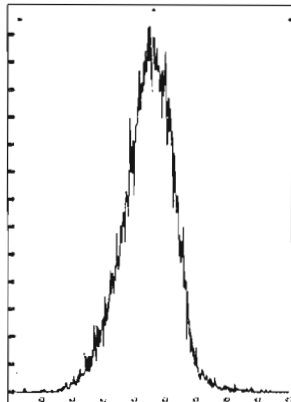
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, November 10, 2020 08:19:39 Pacific Standard Time

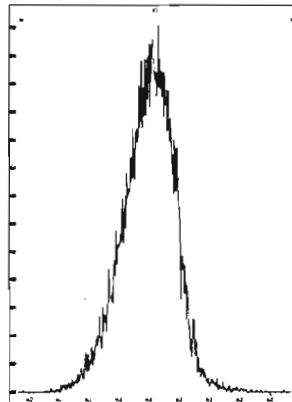
M 430.9728 R 11468



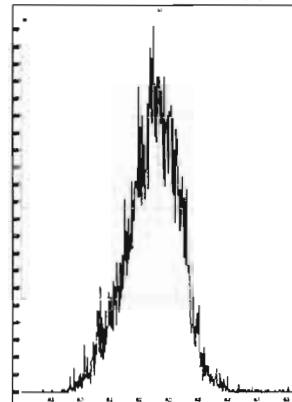
M 442.9728 R 11959



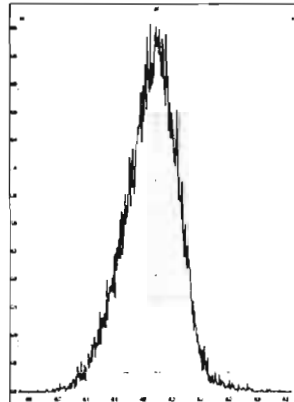
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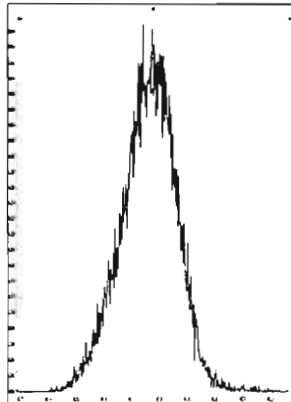
M 466.9728 R 12256



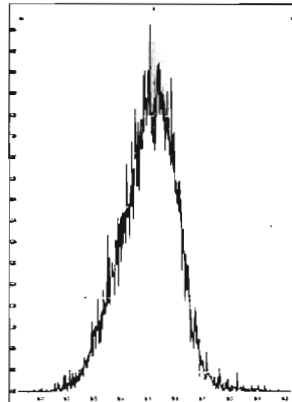
M 480.9696 R 11160



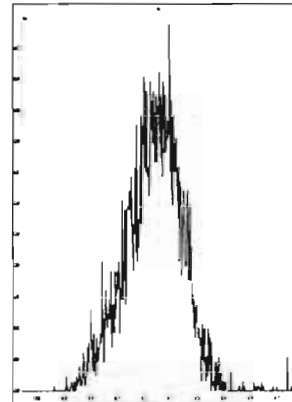
M 492.9696 R 10824



M 504.9696 R 11013



M 516.9697 R 11462



Dataset: U:\VG12.PRO\Results\201110R1\201110R1-2.qld

Last Altered: Tuesday, November 10, 2020 10:00:15 Pacific Standard Time

Printed: Tuesday, November 10, 2020 14:49:14 Pacific Standard Time

*GRB 11/10/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 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	6.15e4	5.80e5	0.81	NO	0.950	26.17	26.16	NO	1.001	1.001	11.176	112	NO
2	2 1,2,3,7,8-PeCDD	2.20e5	4.36e5	0.63	NO	0.885	30.86	30.88	NO	1.000	1.001	57.001	114	NO
3	3 1,2,3,4,7,8-HxCDD	2.20e5	3.83e5	1.26	NO	1.02	34.21	34.19	NO	1.001	1.000	56.603	113	NO
4	4 1,2,3,6,7,8-HxCDD	2.21e5	4.63e5	1.26	NO	0.915	34.31	34.31	NO	1.000	1.000	52.125	104	NO
5	5 1,2,3,7,8,9-HxCDD	2.09e5	4.21e5	1.26	NO	0.934	34.58	34.60	NO	1.000	1.001	53.165	106	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.73e5	3.68e5	1.03	NO	0.870	38.07	38.08	NO	1.000	1.000	54.153	108	NO
7	7 OCDD	2.85e5	5.94e5	0.87	NO	0.872	41.03	41.04	NO	1.000	1.000	109.86	110	NO
8	8 2,3,7,8-TCDF	7.31e4	8.91e5	0.74	NO	0.824	25.45	25.48	NO	1.000	1.001	9.9525	99.5	NO
9	9 1,2,3,7,8-PeCDF	3.92e5	7.34e5	1.56	NO	0.963	29.60	29.61	NO	1.000	1.001	55.478	111	NO
10	10 2,3,4,7,8-PeCDF	4.08e5	7.02e5	1.56	NO	1.07	30.66	30.67	NO	1.000	1.001	54.363	109	NO
11	11 1,2,3,4,7,8-HxCDF	2.62e5	5.41e5	1.21	NO	0.953	33.27	33.29	NO	1.000	1.001	50.855	102	NO
12	12 1,2,3,6,7,8-HxCDF	2.88e5	5.79e5	1.22	NO	1.01	33.40	33.42	NO	1.000	1.001	49.312	98.6	NO
13	13 2,3,4,6,7,8-HxCDF	2.64e5	5.30e5	1.22	NO	0.991	34.08	34.09	NO	1.000	1.000	50.254	101	NO
14	14 1,2,3,7,8,9-HxCDF	2.13e5	4.42e5	1.21	NO	0.951	35.07	35.09	NO	1.000	1.001	50.749	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.09e5	4.26e5	0.99	NO	0.999	36.66	36.66	NO	1.000	1.000	49.166	98.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.69e5	3.09e5	0.99	NO	1.12	38.69	38.71	NO	1.000	1.000	48.818	97.6	NO
17	17 OCDF	3.13e5	6.94e5	0.86	NO	0.868	41.32	41.32	NO	1.000	1.000	103.99	104	NO
18	18 13C-2,3,7,8-TCDD	5.80e5	5.22e5	0.80	NO	1.11	26.12	26.14	NO	1.029	1.030	100.05	100	NO
19	19 13C-1,2,3,7,8-PeCDD	4.36e5	5.22e5	0.65	NO	0.859	30.73	30.86	NO	1.211	1.216	97.282	97.3	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.83e5	5.71e5	1.29	NO	0.700	34.17	34.18	NO	1.013	1.014	95.743	95.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.63e5	5.71e5	1.28	NO	0.833	34.29	34.30	NO	1.017	1.017	97.362	97.4	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.21e5	5.71e5	1.28	NO	0.762	34.56	34.57	NO	1.025	1.025	96.826	96.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.68e5	5.71e5	1.04	NO	0.650	38.00	38.07	NO	1.127	1.129	99.064	99.1	NO
24	24 13C-OCDD	5.94e5	5.71e5	0.91	NO	0.539	40.93	41.03	NO	1.214	1.217	192.94	96.5	NO
25	25 13C-2,3,7,8-TCDF	8.91e5	8.81e5	0.78	NO	0.981	25.45	25.45	NO	1.003	1.003	103.12	103	NO
26	26 13C-1,2,3,7,8-PeCDF	7.34e5	8.81e5	1.60	NO	0.792	29.49	29.59	NO	1.162	1.166	105.23	105	NO
27	27 13C-2,3,4,7,8-PeCDF	7.02e5	8.81e5	1.57	NO	0.778	30.54	30.66	NO	1.204	1.208	102.49	102	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.41e5	5.71e5	0.50	NO	0.954	33.27	33.27	NO	0.987	0.987	99.222	99.2	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.79e5	5.71e5	0.51	NO	1.01	33.41	33.40	NO	0.991	0.991	100.69	101	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.30e5	5.71e5	0.50	NO	0.921	34.06	34.08	NO	1.010	1.011	100.80	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.42e5	5.71e5	0.50	NO	0.803	35.06	35.07	NO	1.040	1.040	96.342	96.3	NO

Dataset: U:\VG12.PRO\Results\201110R1\201110R1-2.qld

Last Altered: Tuesday, November 10, 2020 10:00:15 Pacific Standard Time

Printed: Tuesday, November 10, 2020 14:49:14 Pacific Standard Time

Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 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	4.26e5	5.71e5	0.43	NO	0.735	36.63	36.65	NO	1.086	1.087	101.31	101	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.09e5	5.71e5	0.43	NO	0.568	38.61	38.69	NO	1.145	1.148	95.256	95.3	NO
34	34 13C-OCDF	6.94e5	5.71e5	0.87	NO	0.629	41.22	41.31	NO	1.222	1.225	193.04	96.5	NO
35	35 37Cl-2,3,7,8-TCDD	6.36e4	5.22e5			1.09	26.13	26.16	NO	1.030	1.031	11.182	112	NO
36	36 13C-1,2,3,4-TCDD	5.22e5	5.22e5	0.81	NO	1.00	25.43	25.37	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.81e5	8.81e5	0.79	NO	1.00	24.13	23.88	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.71e5	5.71e5	0.51	NO	1.00	33.84	33.72	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Tuesday, November 10, 2020 2:42:13 PM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 2:42:23 PM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50  
Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

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

	Name	ID	Acq.Date	Acq.Time
1	Ⓐ 201110R1_1	ST201110R1_1 1613 CS3 20F1105	10-Nov-20	08:22:32
2	Ⓑ 201110R1_2	ST201110R1_2 1613 CS3 20F1105	10-Nov-20	09:11:44
3	201110R1_3	TCDF CPSM	10-Nov-20	09:57:23
4	201110R1_4	BOK0064-BS1 OPR 1	10-Nov-20	10:42:16
5	201110R1_5	SOLVENT BLANK	10-Nov-20	11:27:51
6	201110R1_6	BOK0064-BLK1 Method Blank 1	10-Nov-20	12:13:23
7	201110R1_7	2002420-01 OF-31A BiWeekly Composite D/F ...	10-Nov-20	12:58:58
8	201110R1_8	2002171-01 USMPDI-041SG-201009 28.84	10-Nov-20	13:44:38

Ⓐ USED TO ADJUST WINDOWS

Ⓑ USED FOR RUN

GRB 11/10/2020

Dataset: Untitled

Last Altered: Tuesday, November 10, 2020 2:43:20 PM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 2:43:25 PM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.36
2	2 1,2,8,9-TCDD (Last)	27.06
3	3 1,2,4,7,9-PeCDD (First)	28.60
4	4 1,2,3,8,9-PeCDD (Last)	31.24
5	5 1,2,4,6,7,9-HxCDD (First)	32.55
6	6 1,2,3,7,8,9-HxCDD (Last)	34.60
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.05
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.08
9	9 1,3,6,8-TCDF (First)	20.13
10	10 1,2,8,9-TCDF (Last)	27.37
11	11 1,3,4,6,8-PeCDF (First)	26.94
12	12 1,2,3,8,9-PeCDF (Last)	31.60
13	13 1,2,3,4,6,8-HxCDF (First)	32.02
14	14 1,2,3,7,8,9-HxCDF (Last)	35.09
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.66
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.71

Dataset: Untitled

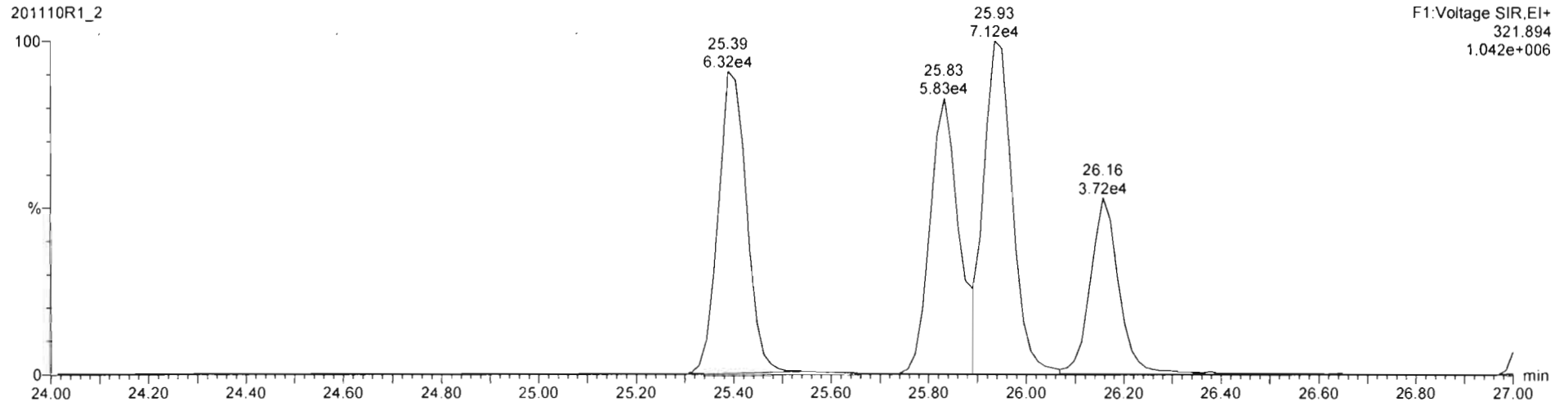
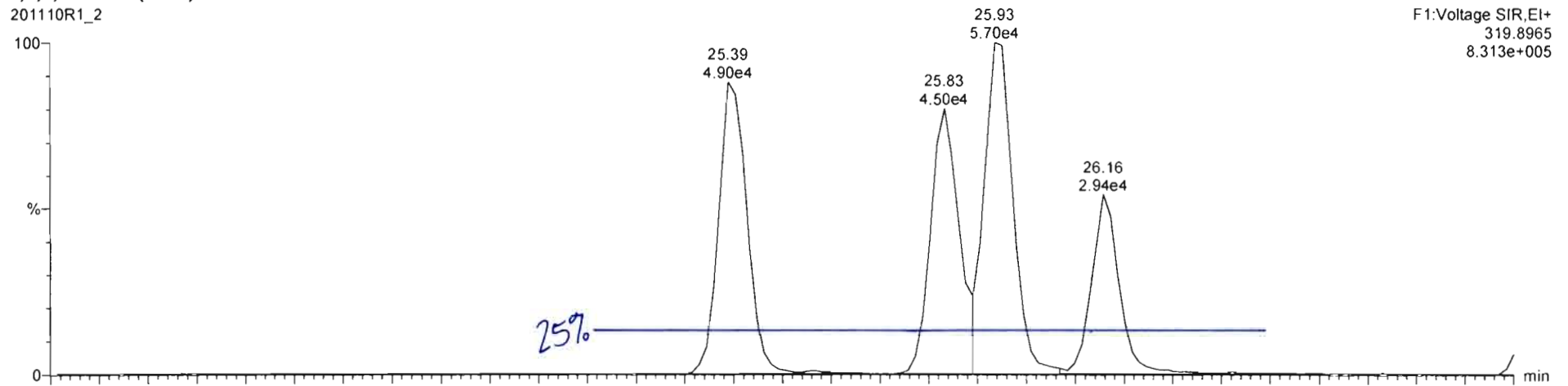
Last Altered: Tuesday, November 10, 2020 2:43:20 PM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 2:43:25 PM Pacific Standard Time

GRB 11/10/2020  
HN 11/10/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22  
Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

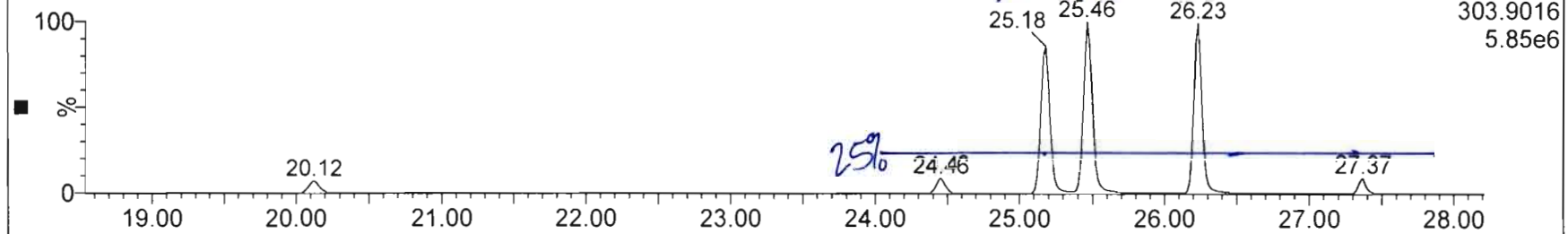
1,3,6,8-TCDD (First)  
201110R1\_2



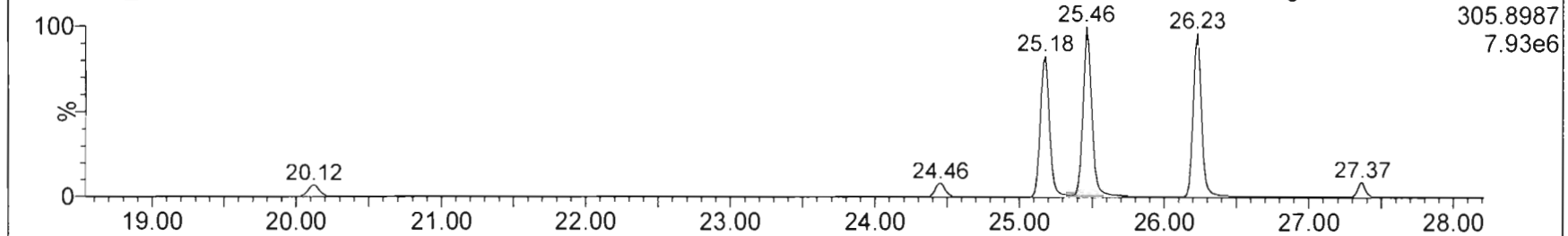
HIN 11/10/2020  
GPB 11/10/2020

### TCDF CPSM QC

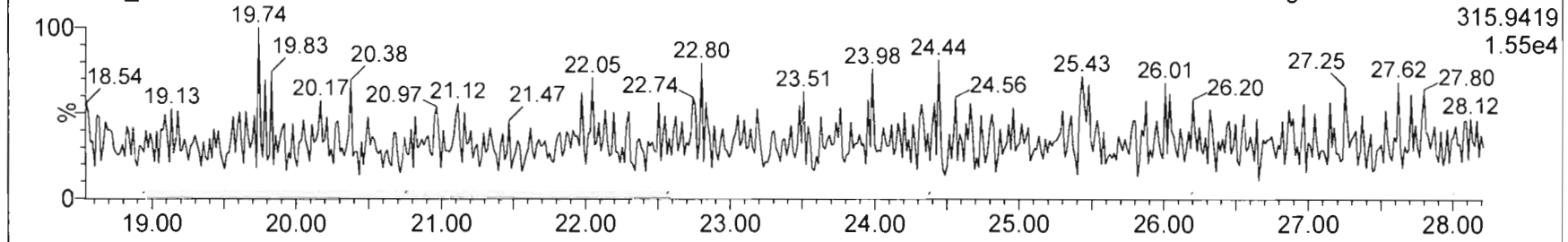
201110R1\_3



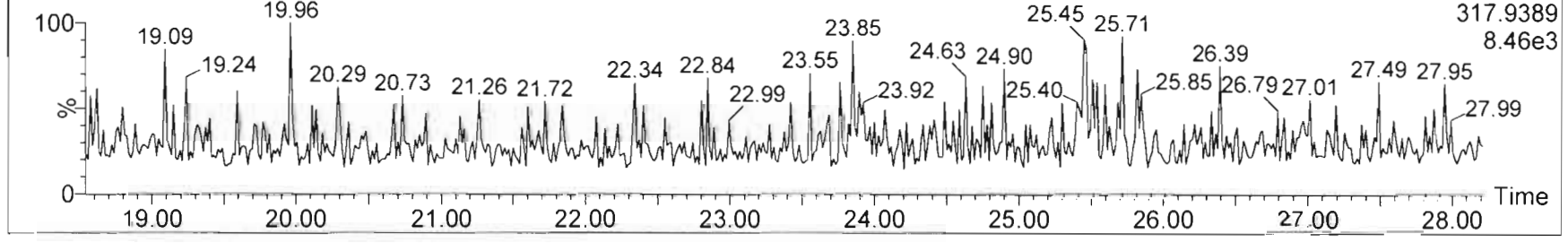
201110R1\_3



201110R1\_3



201110R1\_3



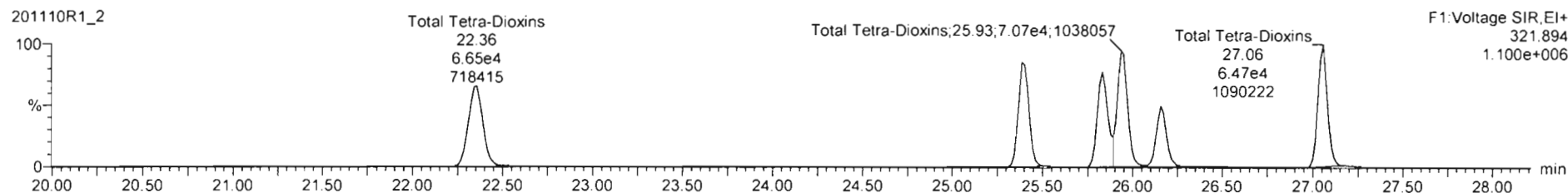
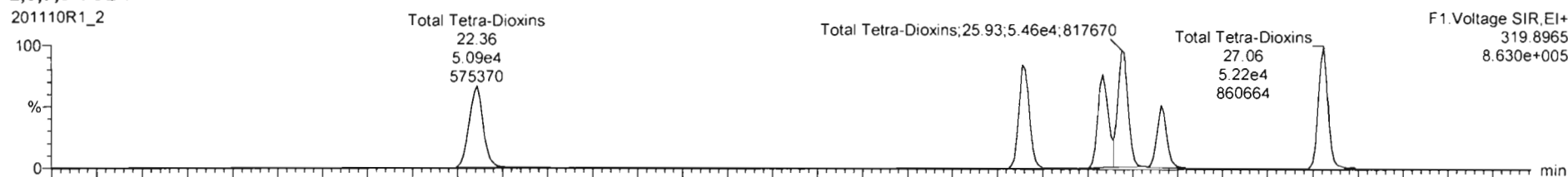
Dataset: Untitled

Last Altered: Tuesday, November 10, 2020 2:43:37 PM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

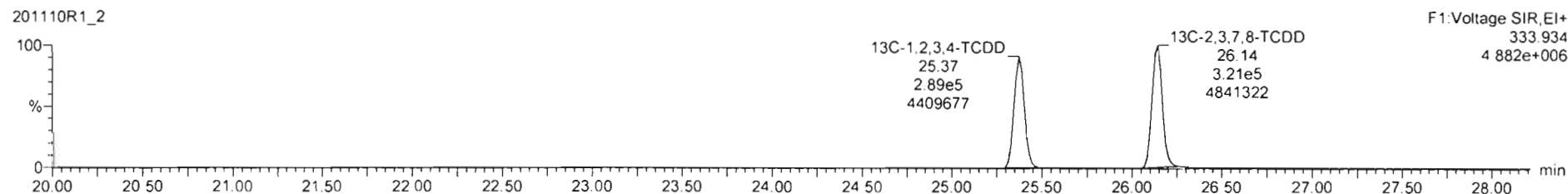
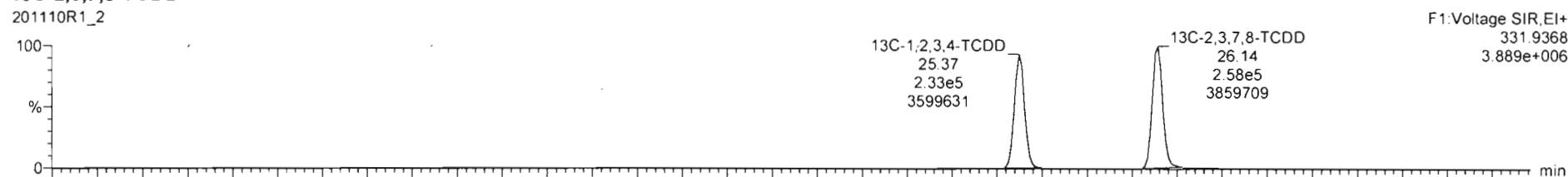
Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 04 Nov 2020 10:00:50  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

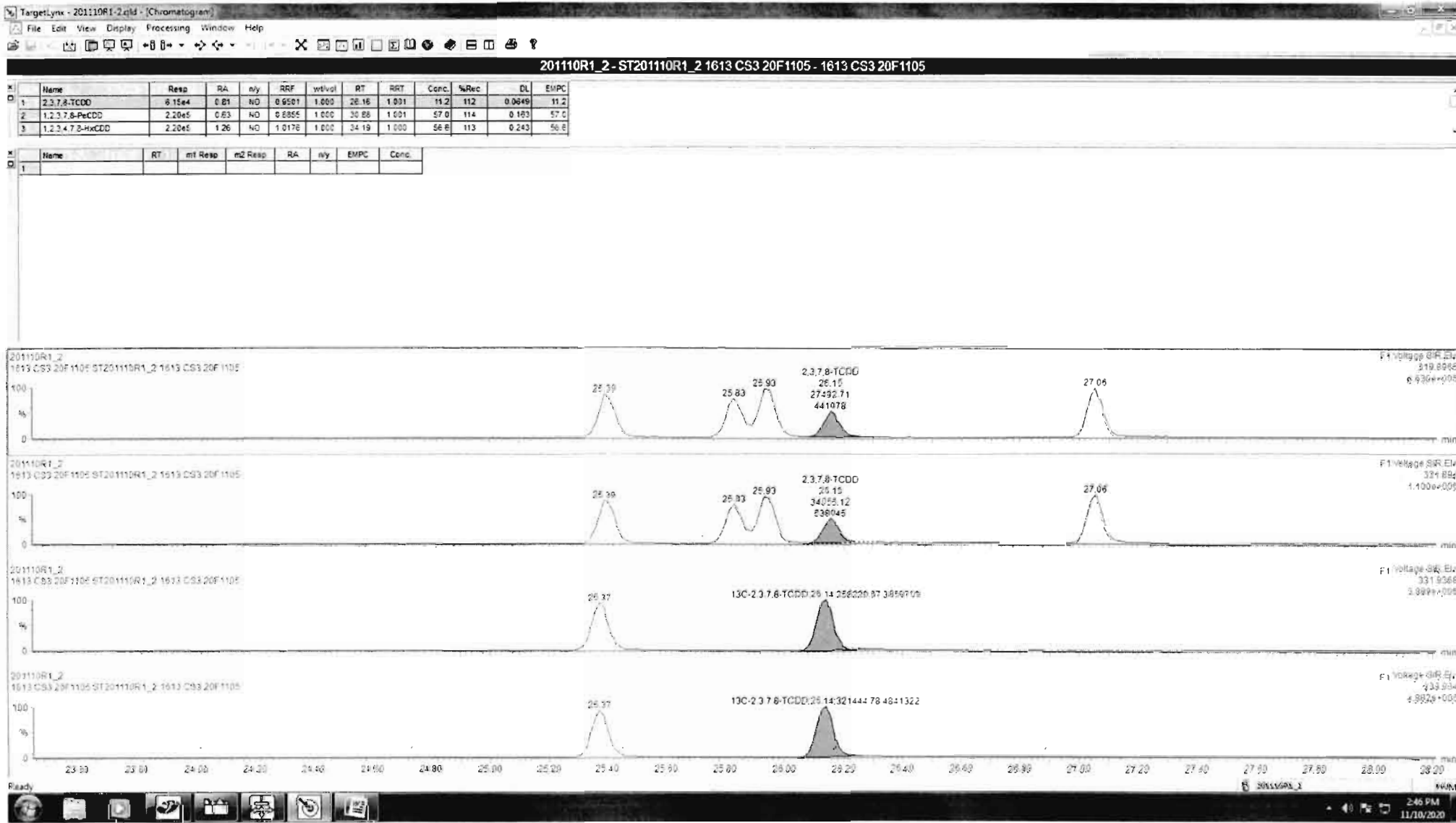
2,3,7,8-TCDD



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







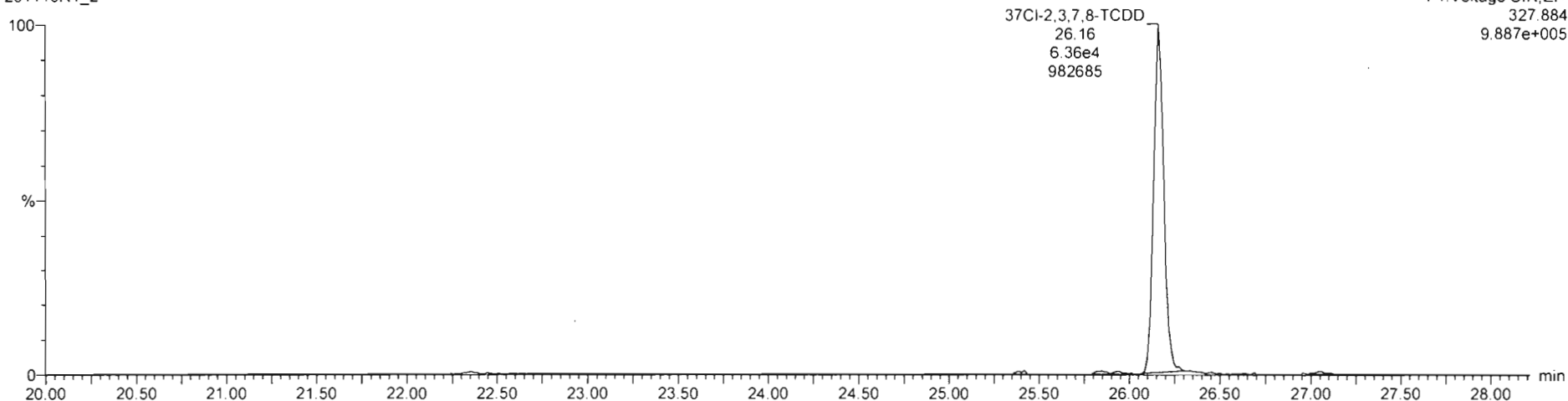
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Last Altered: Tuesday, November 10, 2020 2:43:37 PM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

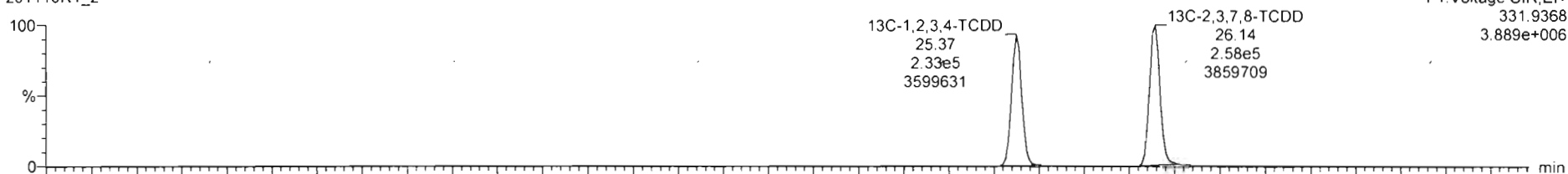
**37Cl-2,3,7,8-TCDD**

201110R1\_2

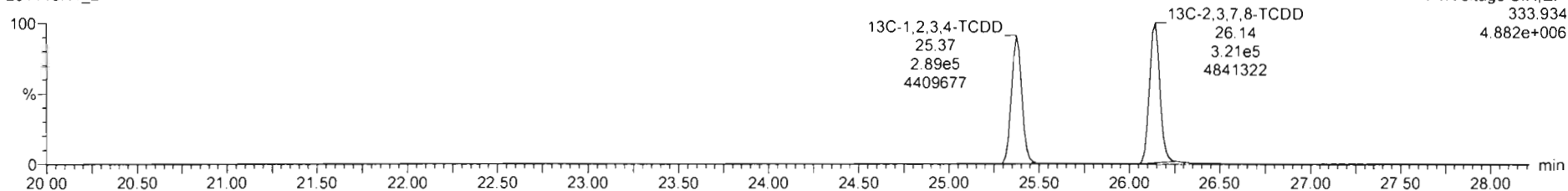


**13C-1,2,3,4-TCDD**

201110R1\_2



201110R1\_2



Dataset: Untitled

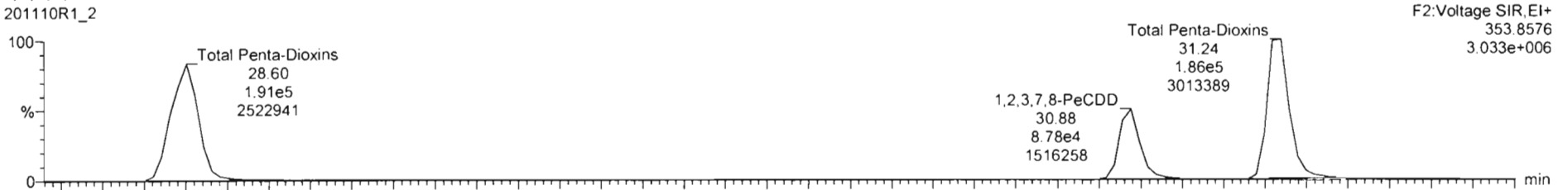
Last Altered: Tuesday, November 10, 2020 2:43:37 PM Pacific Standard Time

Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

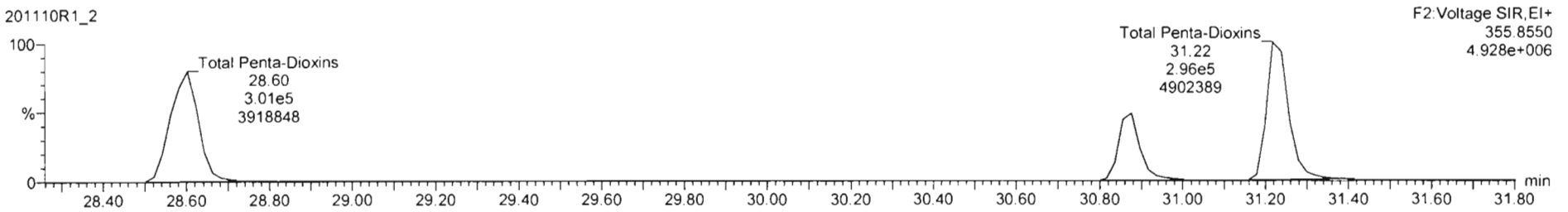
Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201110R1\_2



201110R1\_2

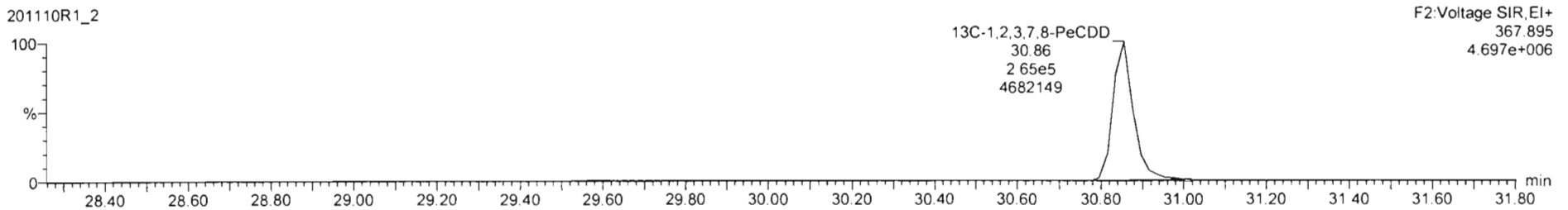


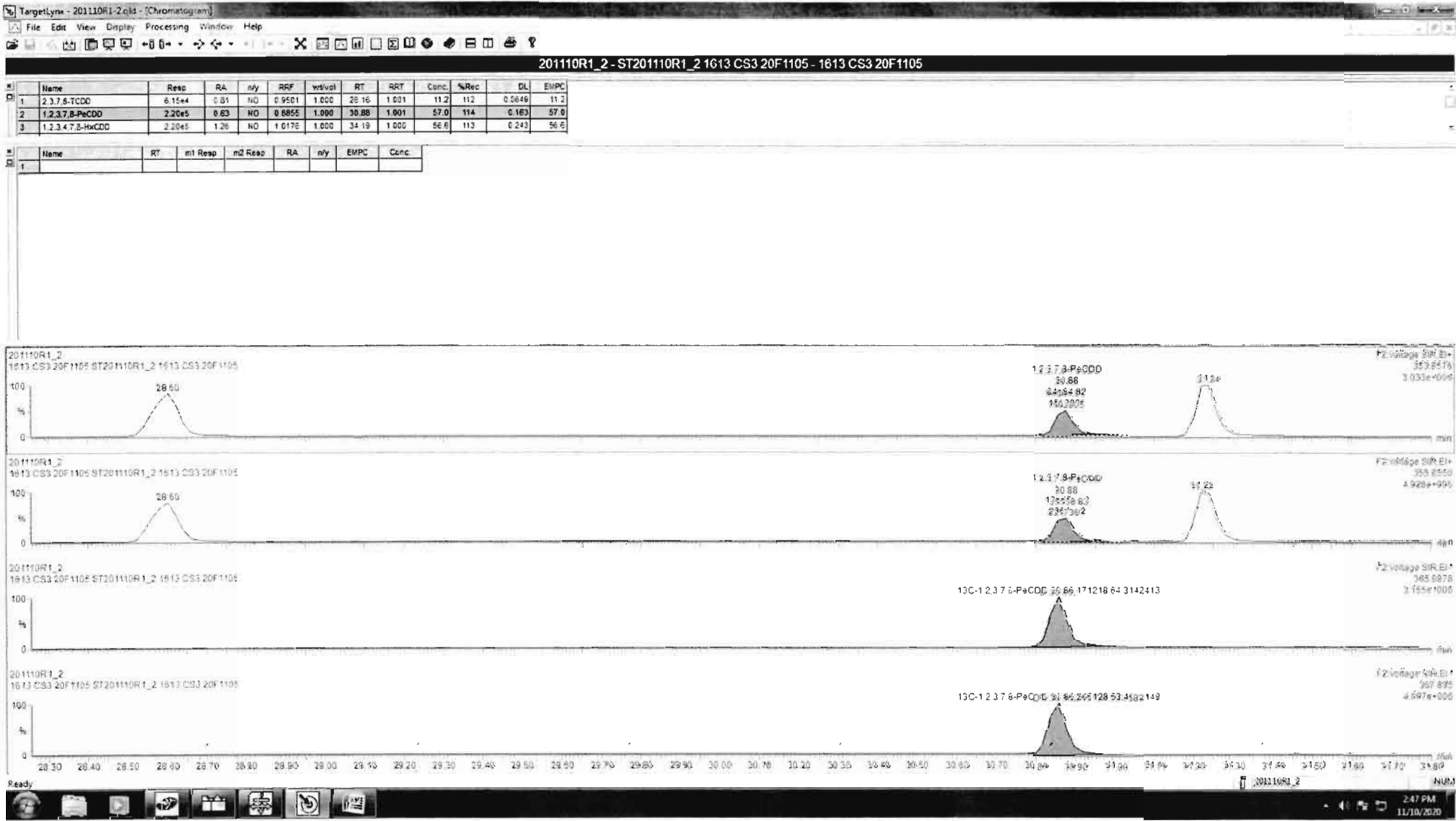
**13C-1,2,3,7,8-PeCDD**

201110R1\_2



201110R1\_2





Dataset: Untitled

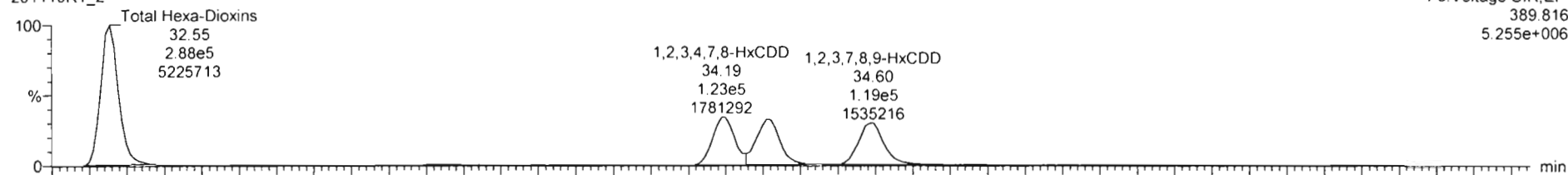
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Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

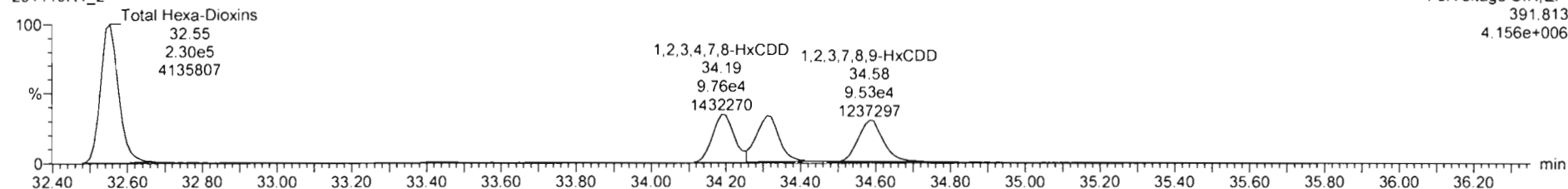
Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201110R1\_2

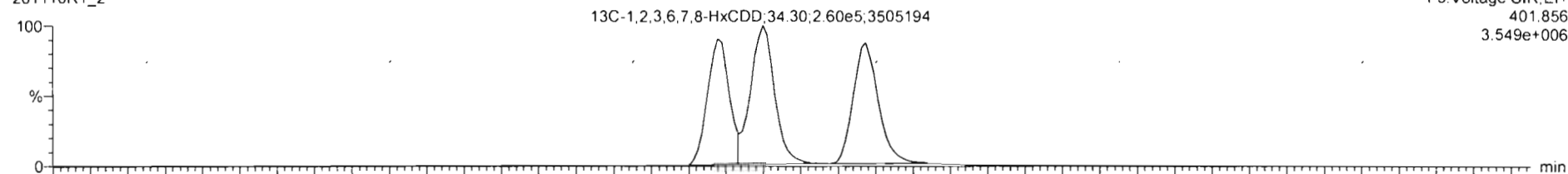


201110R1\_2

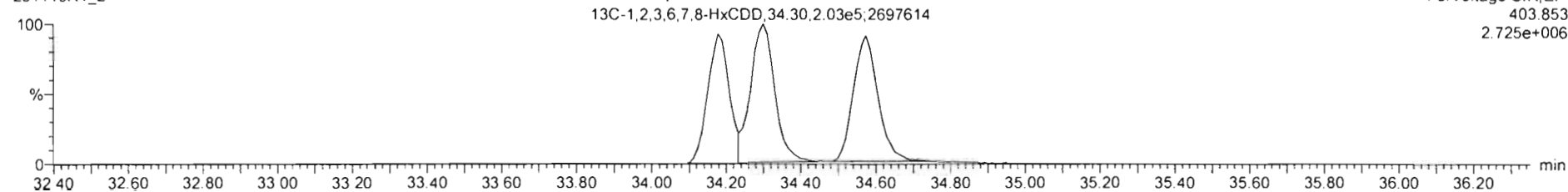


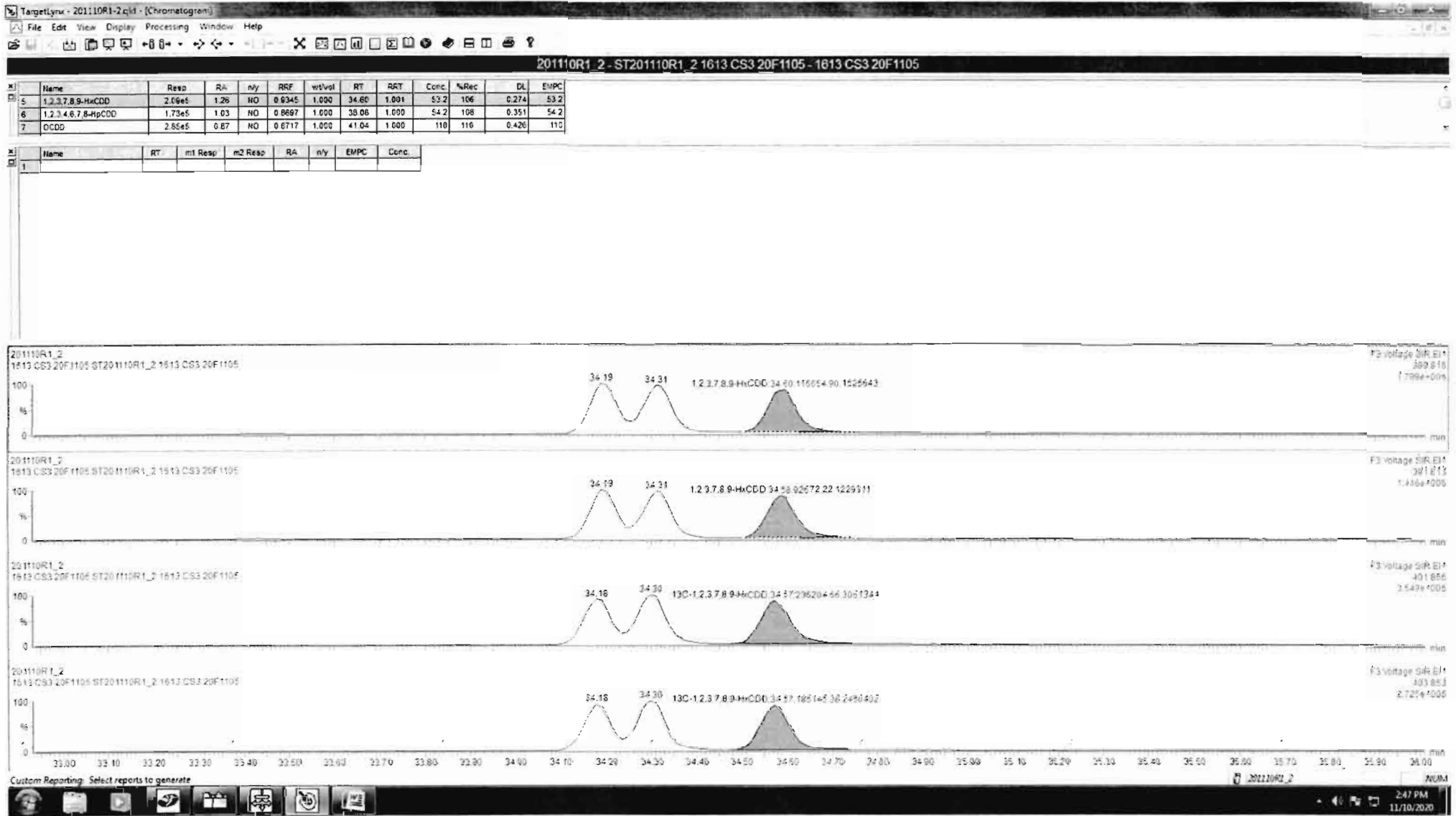
**13C-1,2,3,4,7,8-HxCDD**

201110R1\_2



201110R1\_2





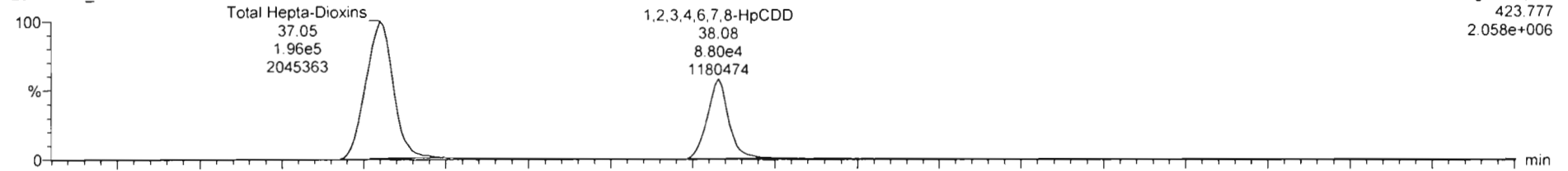
Dataset: Untitled

Last Altered: Tuesday, November 10, 2020 2:43:37 PM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

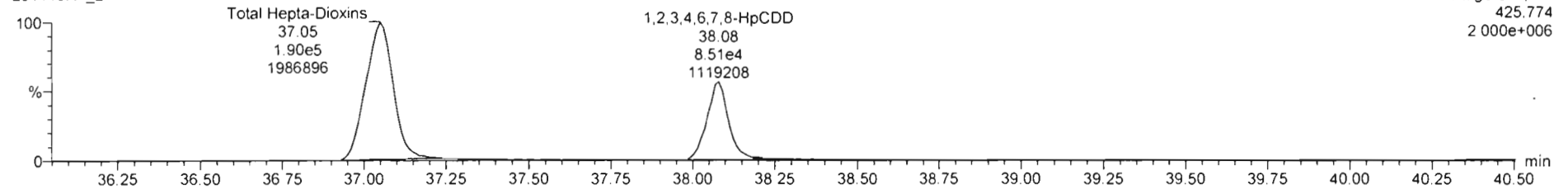
1,2,3,4,6,7,8-HpCDD

201110R1\_2



F4:Voltage SIR,EI+  
423.777  
2.058e+006

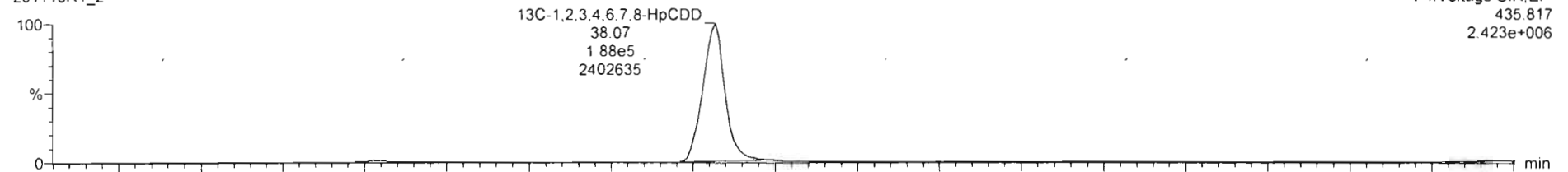
201110R1\_2



F4:Voltage SIR,EI+  
425.774  
2.000e+006

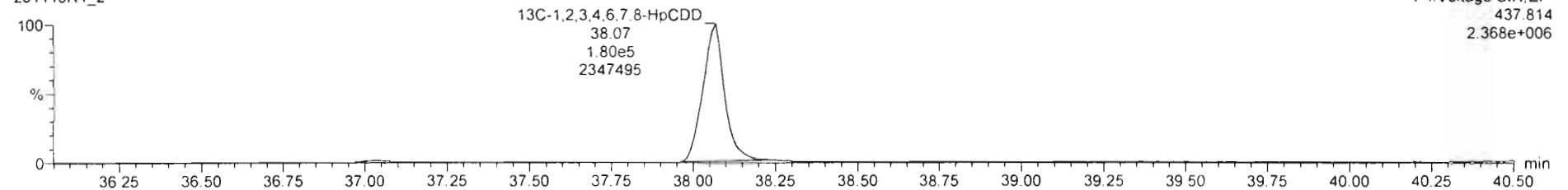
13C-1,2,3,4,6,7,8-HpCDD

201110R1\_2



F4:Voltage SIR,EI+  
435.817  
2.423e+006

201110R1\_2



F4:Voltage SIR,EI+  
437.814  
2.368e+006

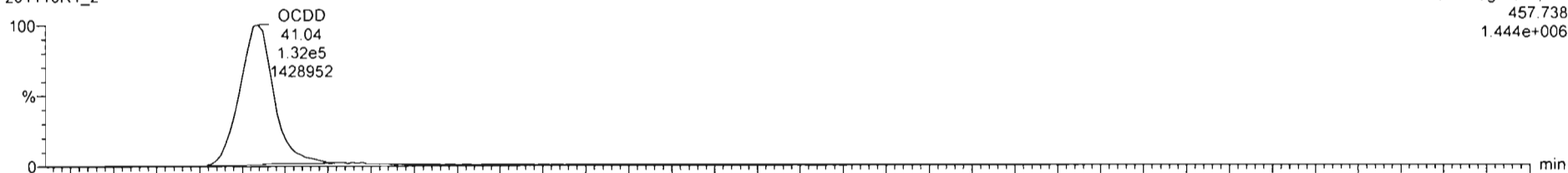
Dataset: Untitled

Last Altered: Tuesday, November 10, 2020 2:43:37 PM Pacific Standard Time  
Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

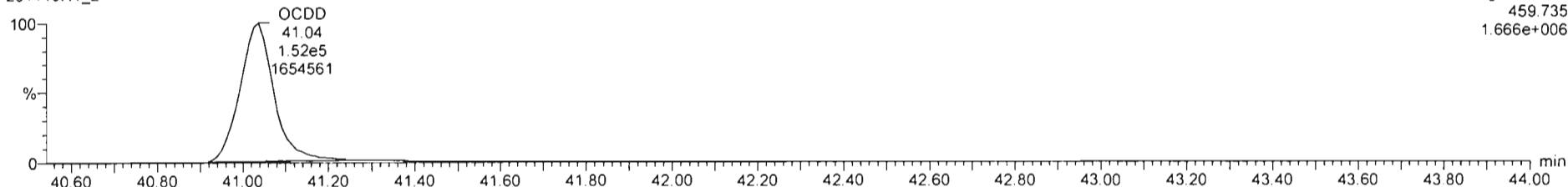
OCDD

201110R1\_2



F5:Voltage SIR,EI+  
457.738  
1.444e+006

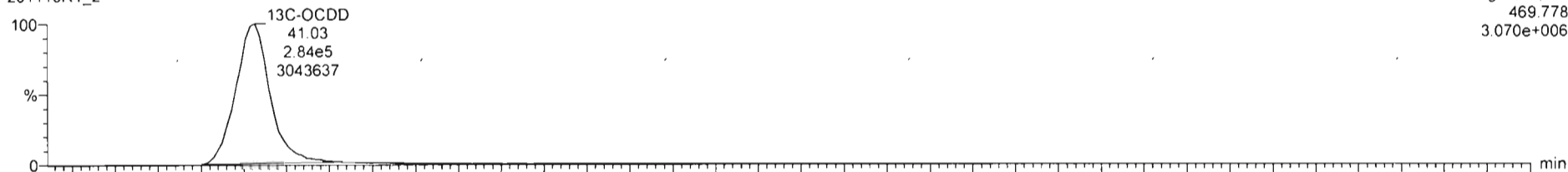
201110R1\_2



F5:Voltage SIR,EI+  
459.735  
1.666e+006

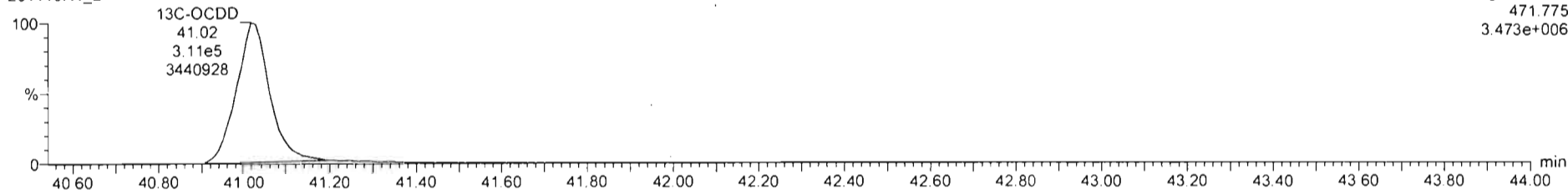
13C-OCDD

201110R1\_2



F5:Voltage SIR,EI+  
469.778  
3.070e+006

201110R1\_2



F5:Voltage SIR,EI+  
471.775  
3.473e+006



Dataset: Untitled

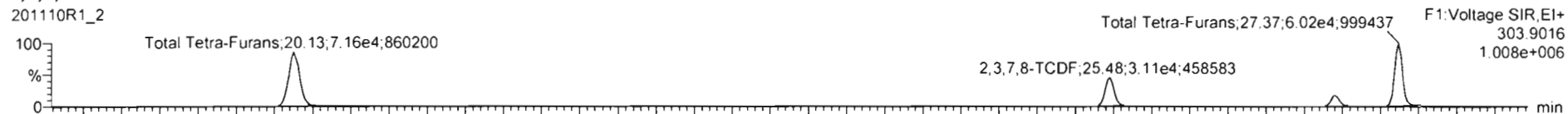
Last Altered: Tuesday, November 10, 2020 2:43:37 PM Pacific Standard Time

Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

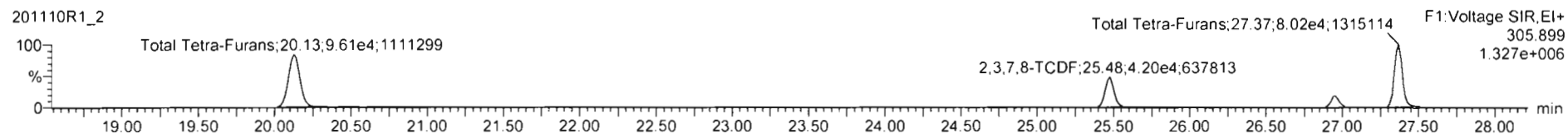
Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201110R1\_2

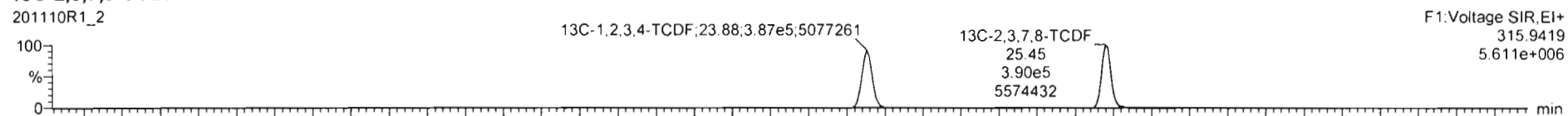


201110R1\_2

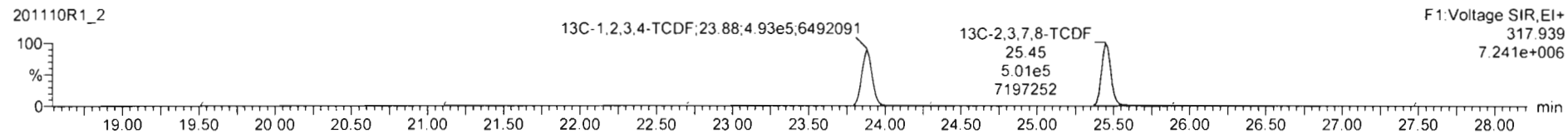


**13C-2,3,7,8-TCDF**

201110R1\_2

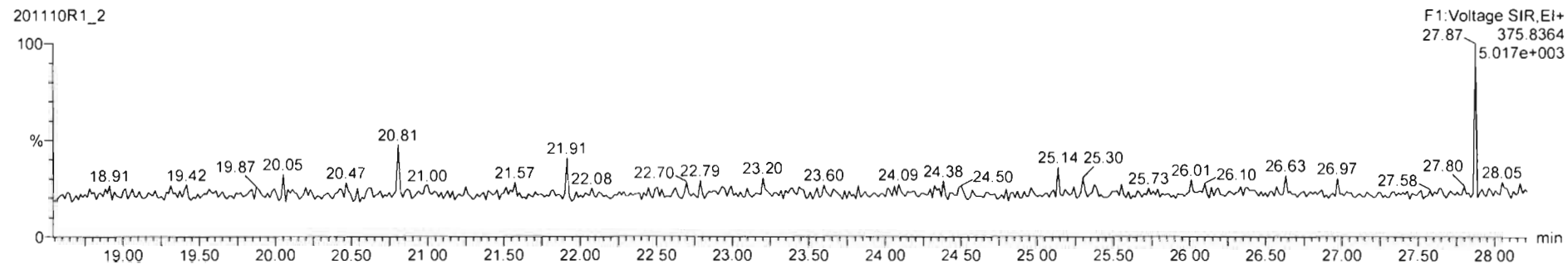


201110R1\_2



**DPE1**

201110R1\_2



Dataset: Untitled

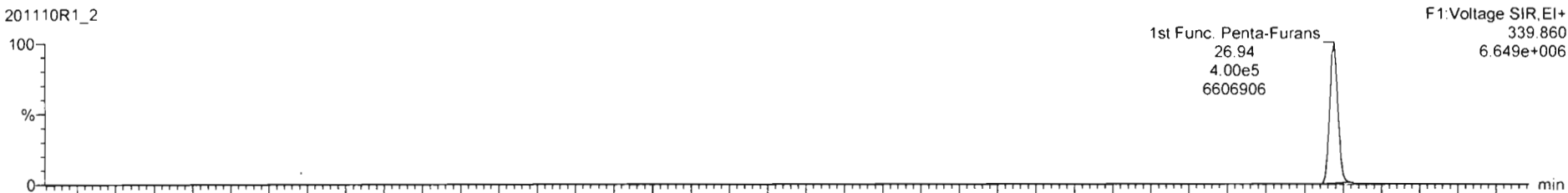
Last Altered: Tuesday, November 10, 2020 2:43:37 PM Pacific Standard Time

Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

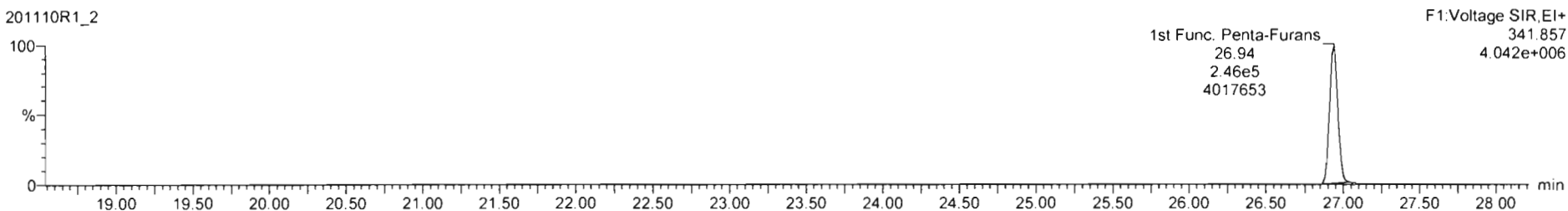
Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

1st Func. Penta-Furans

201110R1\_2

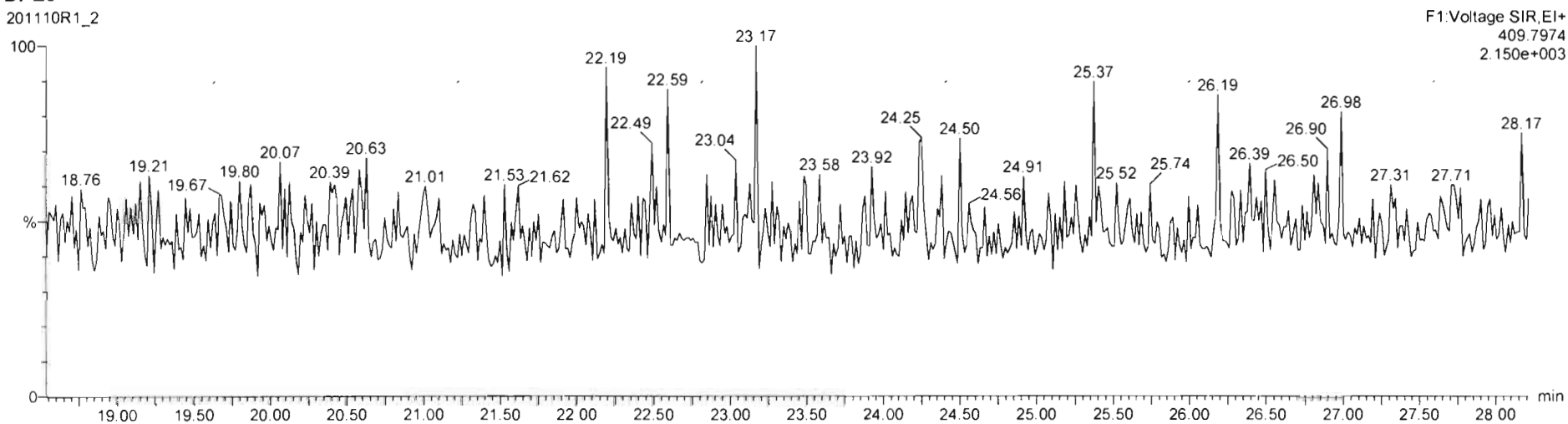


201110R1\_2



DPE6

201110R1\_2



Dataset: Untitled

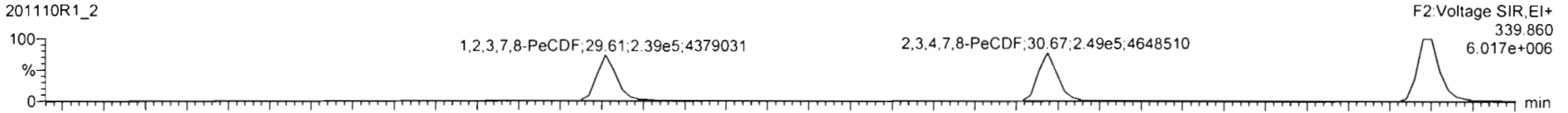
Last Altered: Tuesday, November 10, 2020 2:43:37 PM Pacific Standard Time

Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

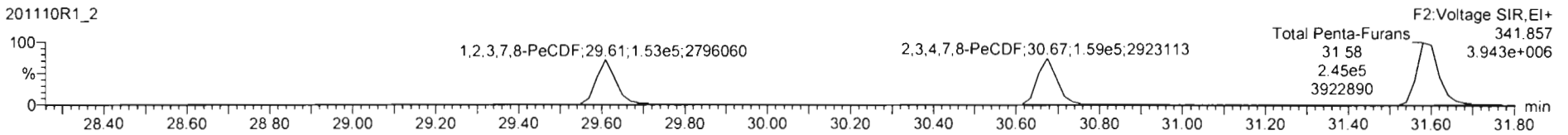
Name: 201110R1\_2, Date: 10-Nov-2020, Time: 09:11:44, ID: ST201110R1\_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201110R1\_2

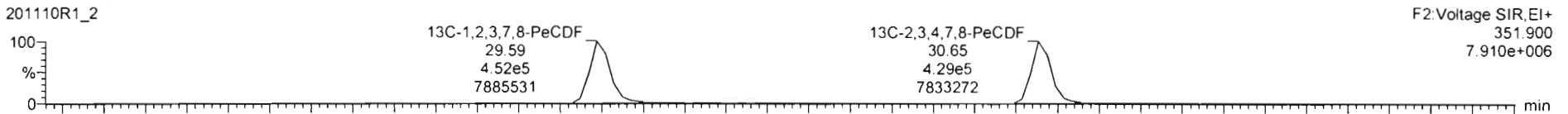


201110R1\_2

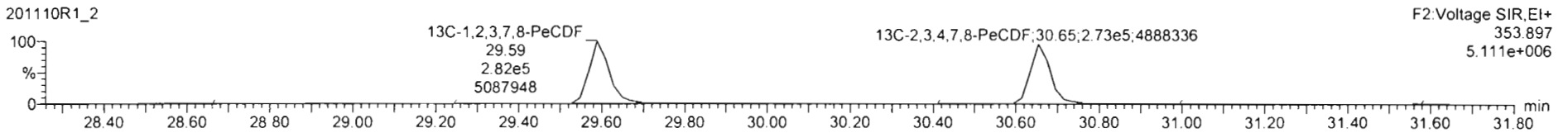


**13C-1,2,3,7,8-PeCDF**

201110R1\_2

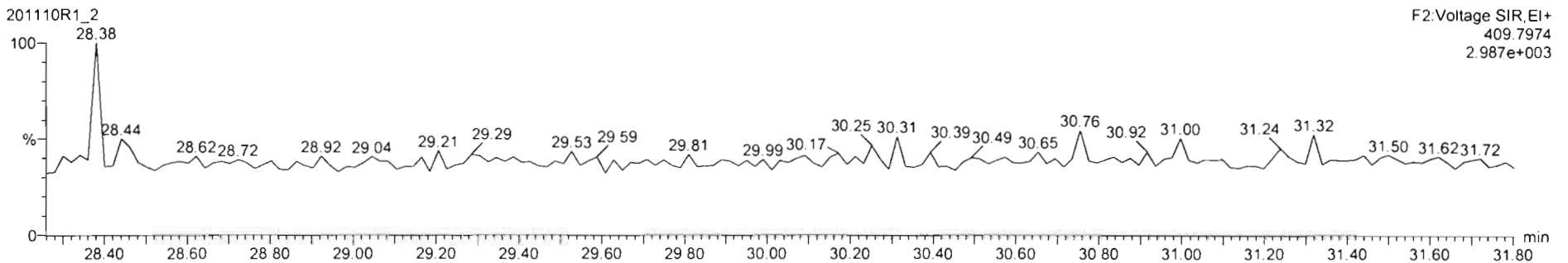


201110R1\_2



**DPE2**

201110R1\_2

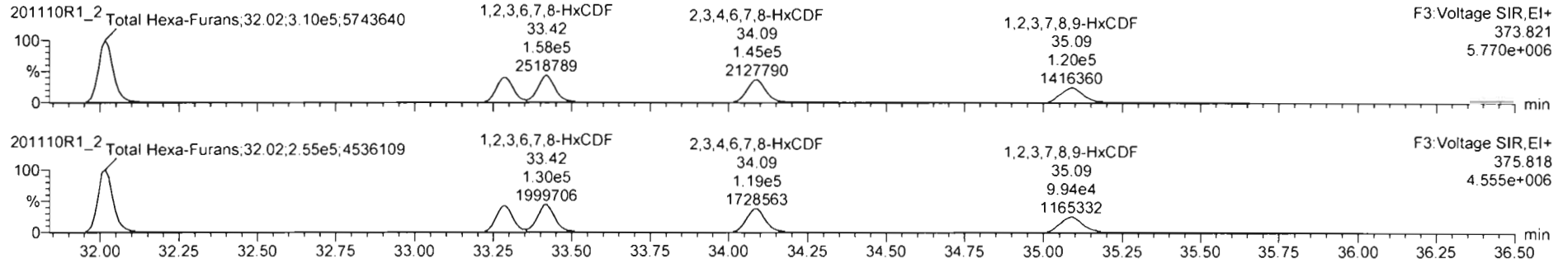


Dataset: Untitled

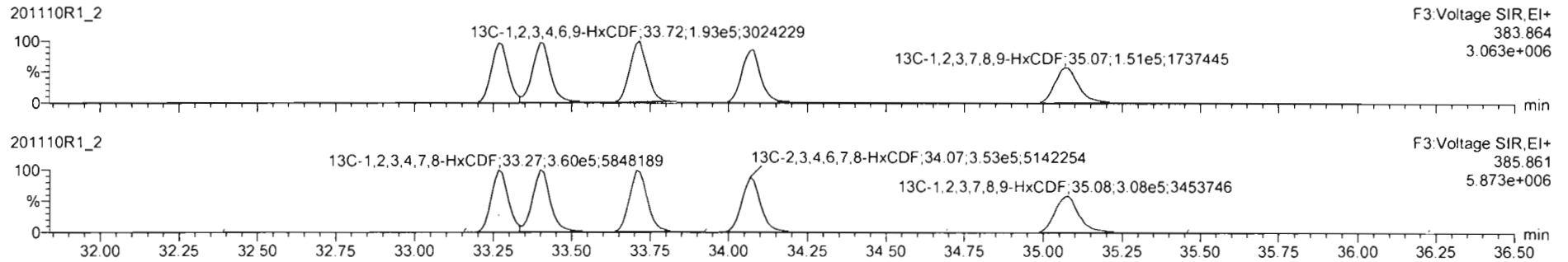
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Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

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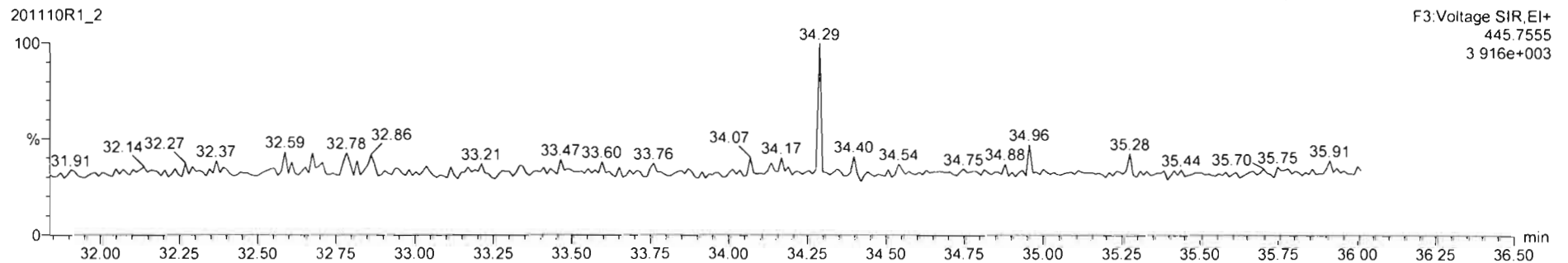
**1,2,3,4,7,8-HxCDF**

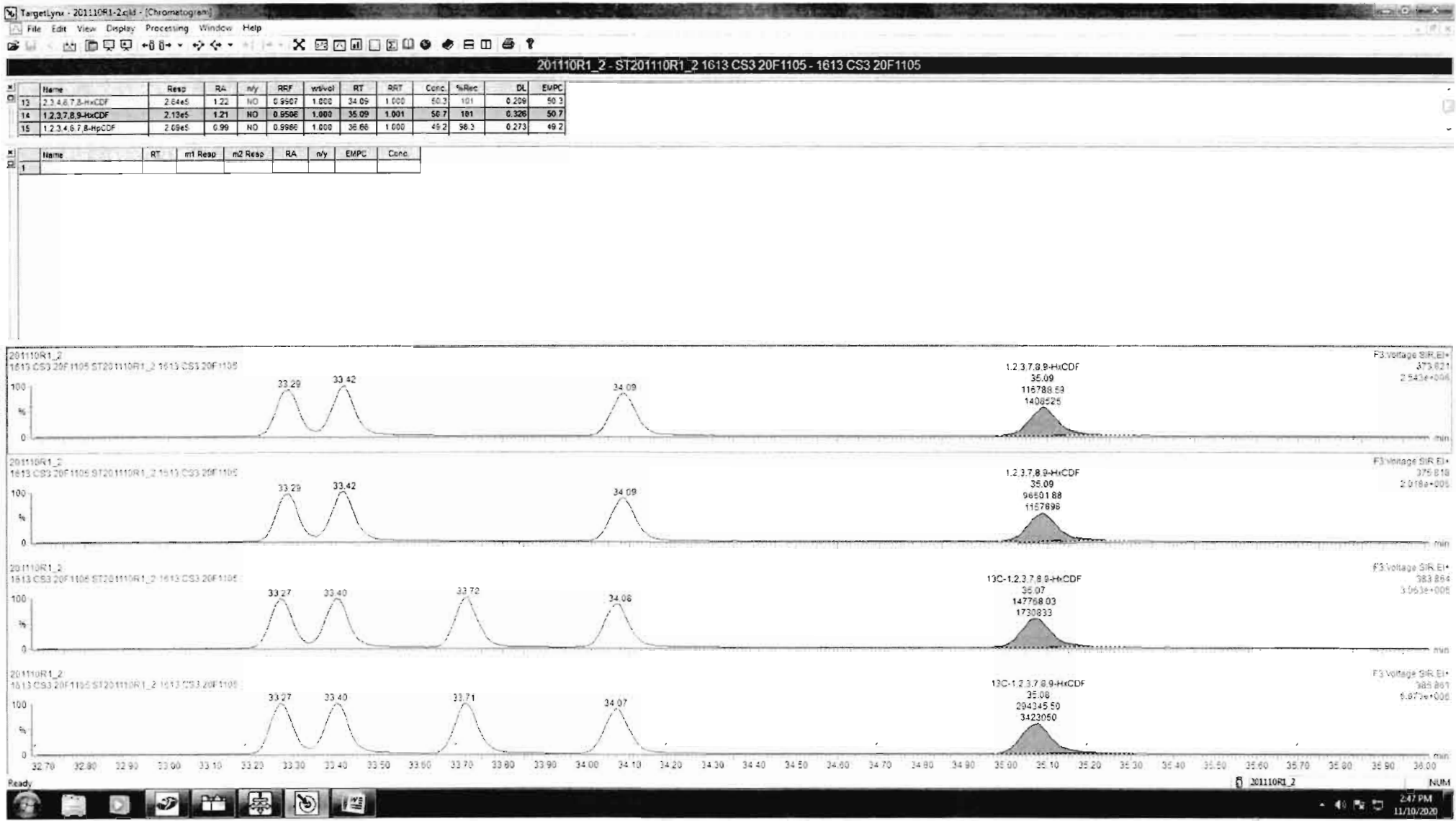


**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



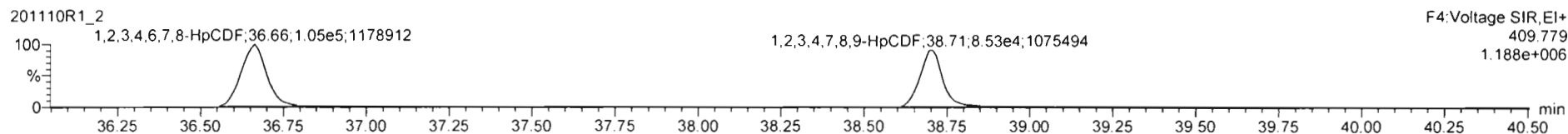
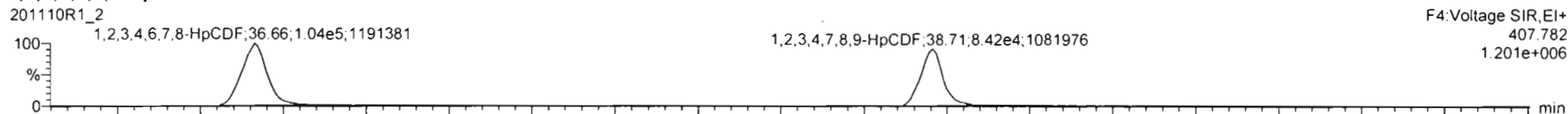


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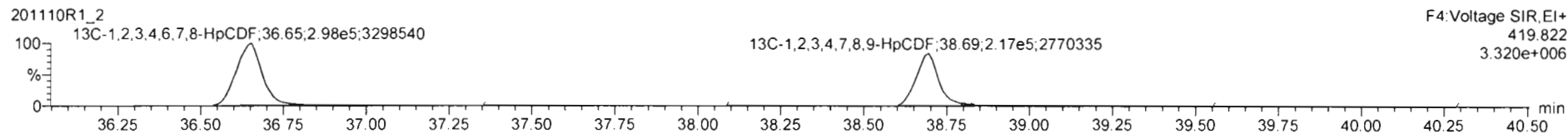
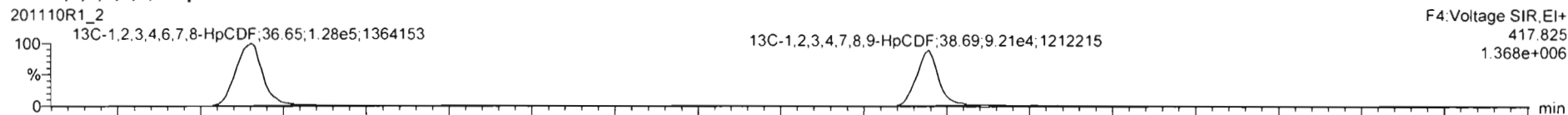
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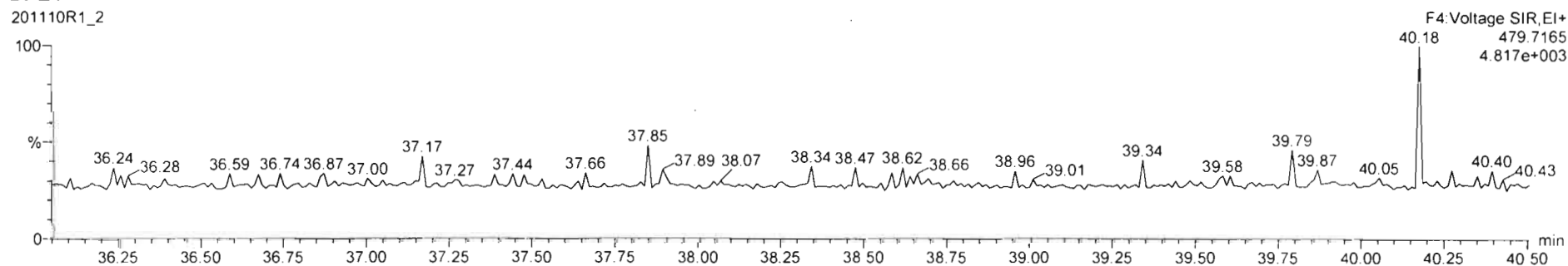
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**

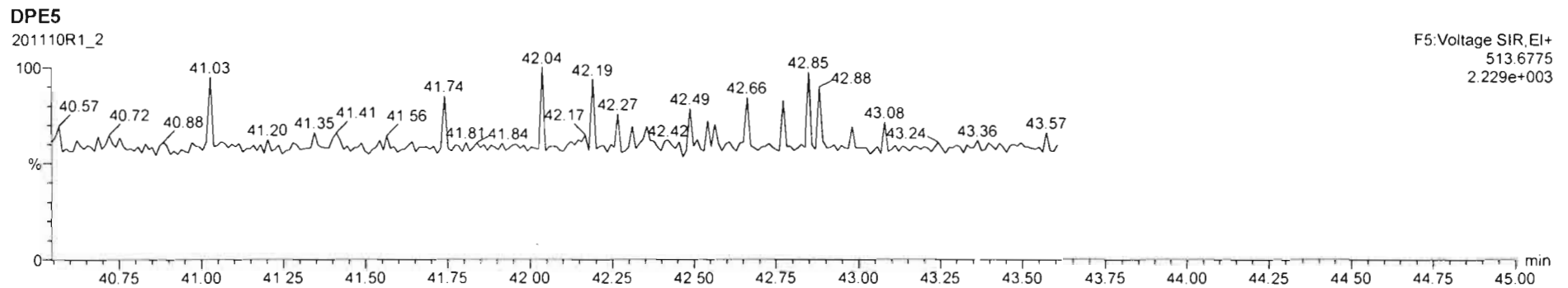
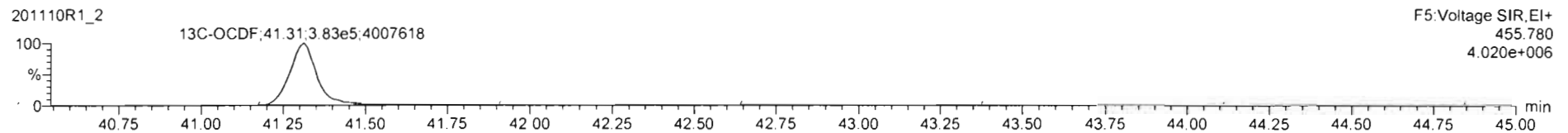
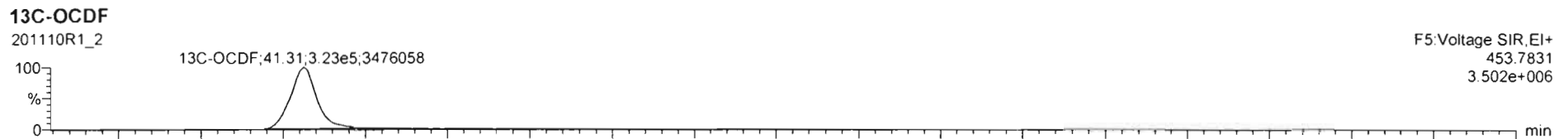
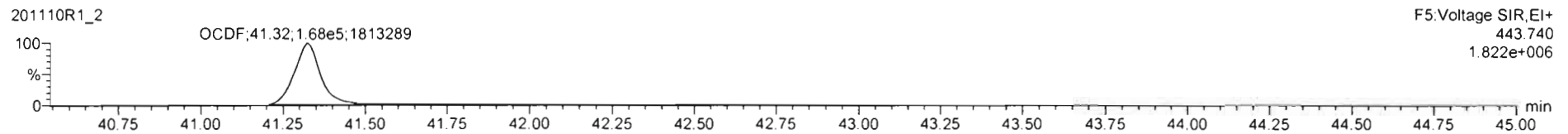
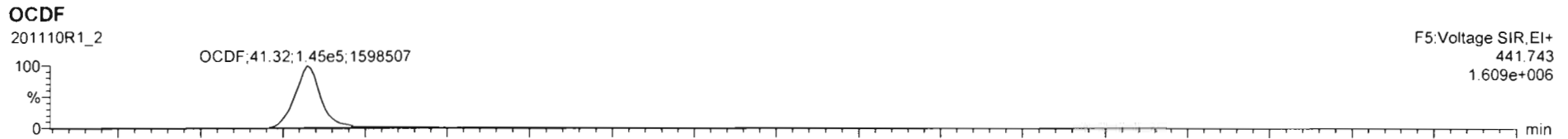


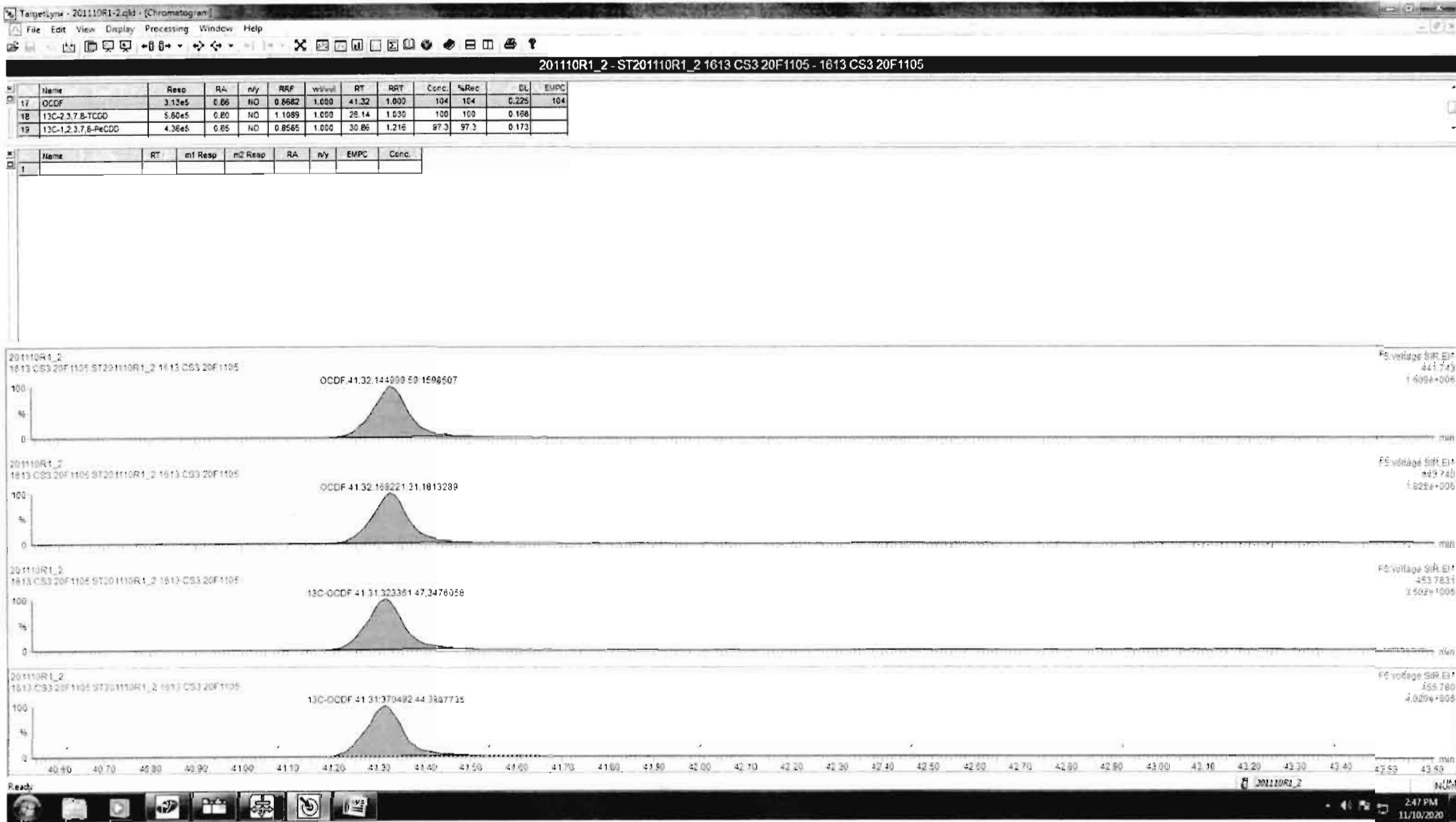
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Last Altered: Tuesday, November 10, 2020 2:43:37 PM Pacific Standard Time

Printed: Tuesday, November 10, 2020 2:43:41 PM Pacific Standard Time

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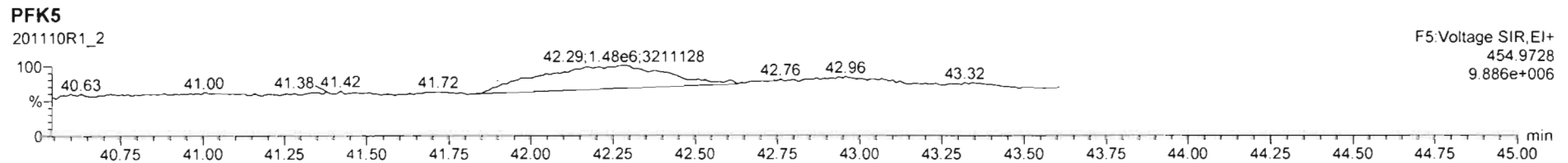
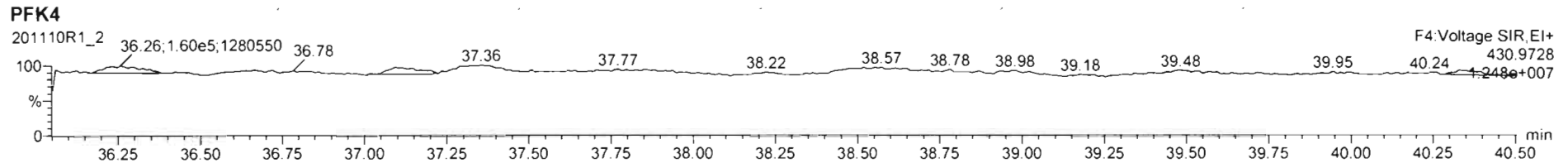
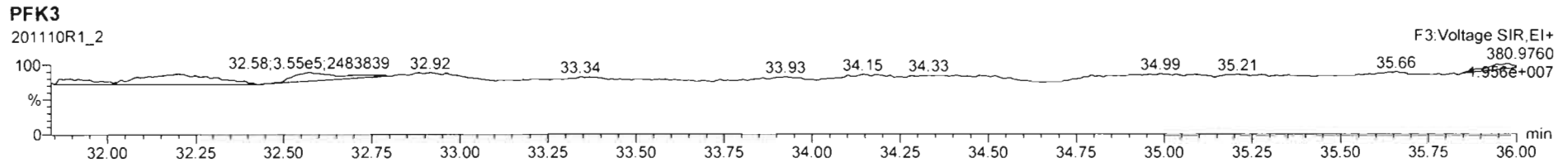
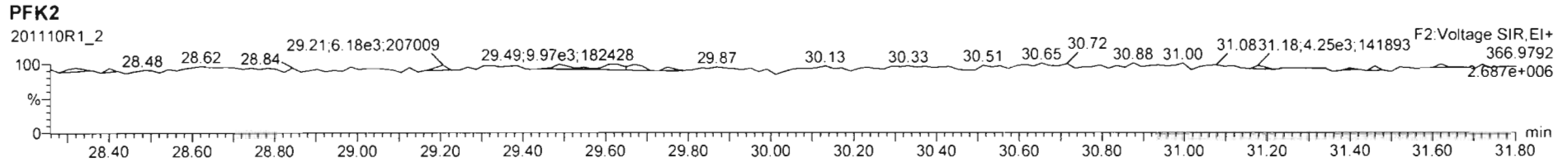
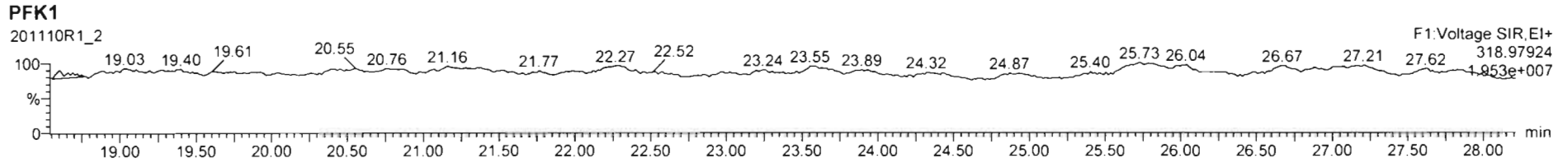


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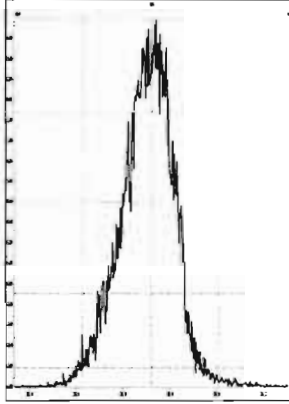
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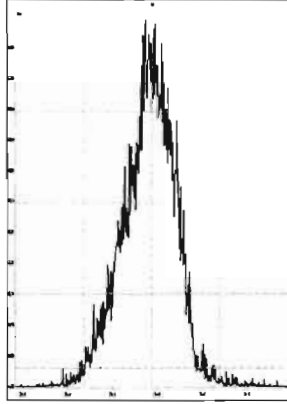


Printed: Tuesday, November 10, 2020 14:38:31 Pacific Standard Time

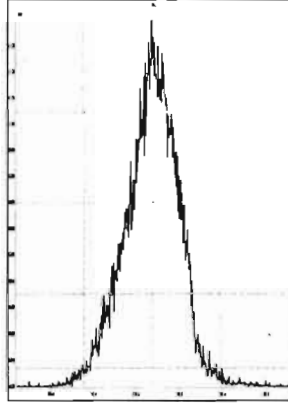
M 292.9824 R 11740



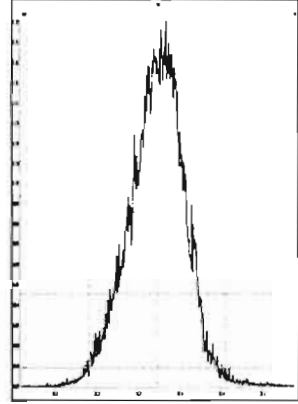
M 304.9824 R 11914



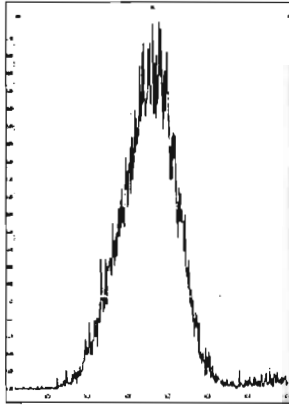
M 318.9792 R 11577



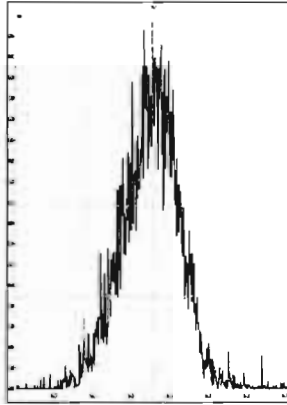
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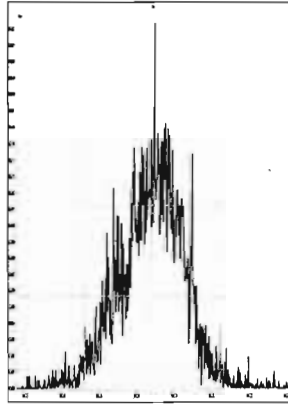
M 342.9792 R 10717



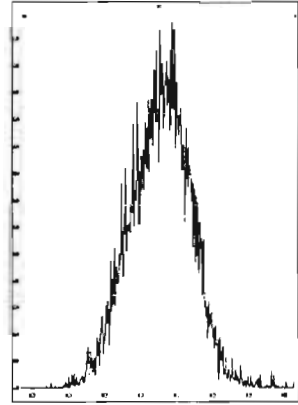
M 354.9792 R 11312



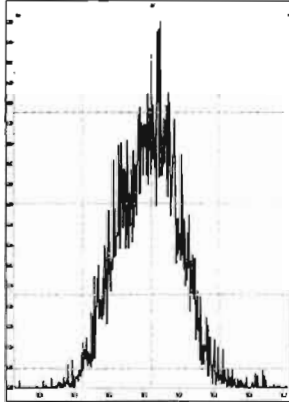
M 366.9792 R 11524



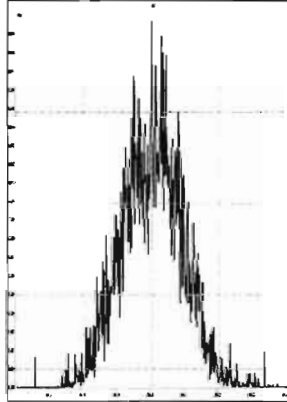
M 380.9760 R 11016



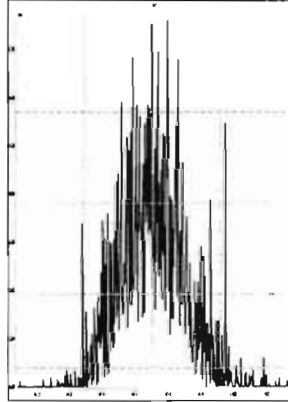
M 392.9760 R 10414



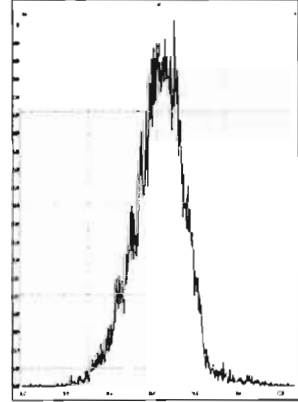
M 404.9760 R 11685



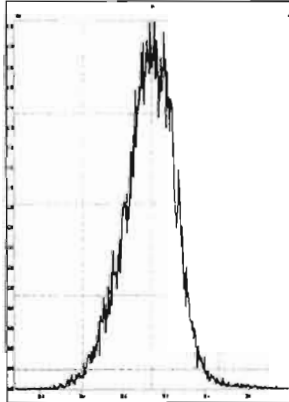
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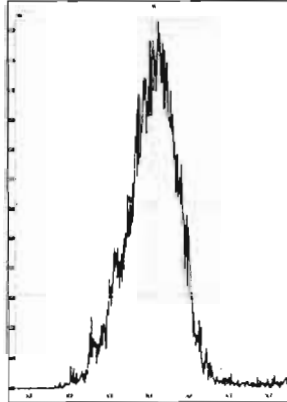
M 318.9792 R 12009



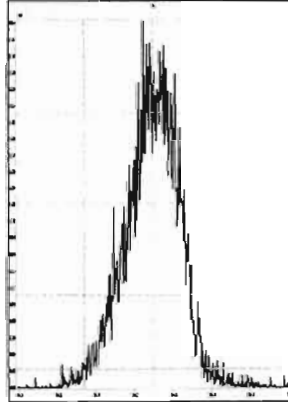
M 330.9792 R 11601



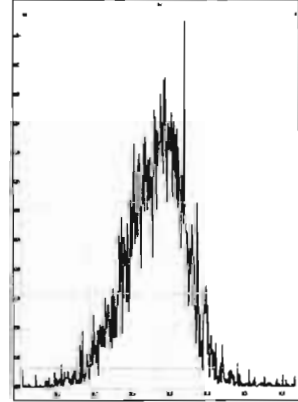
M 342.9792 R 11904



M 354.9792 R 12284

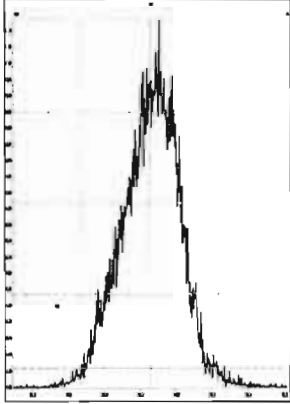


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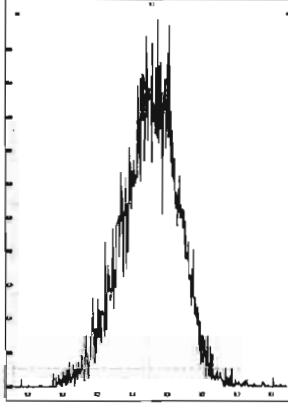


Printed: Tuesday, November 10, 2020 14:38:31 Pacific Standard Time

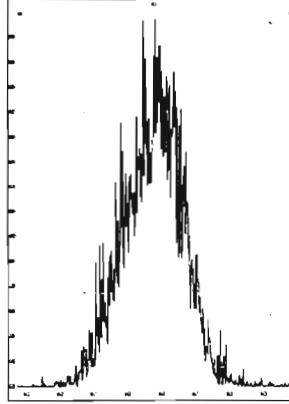
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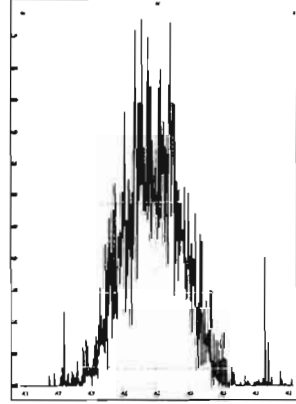
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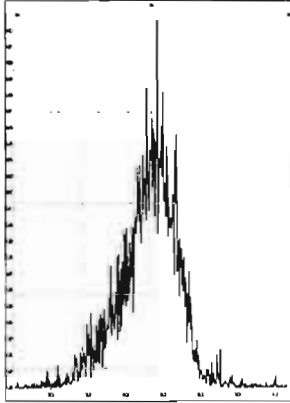
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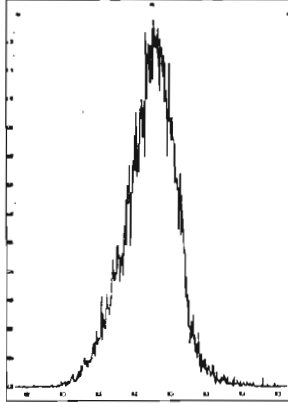
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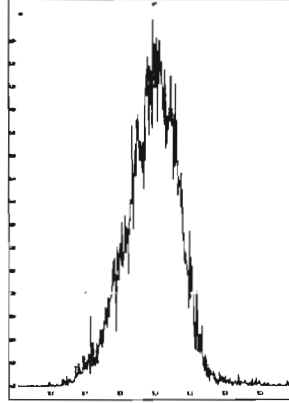
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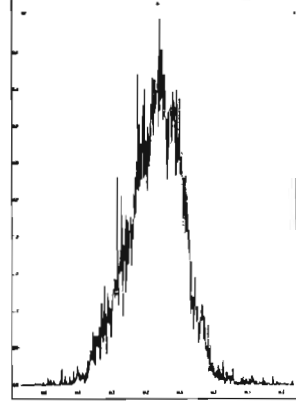
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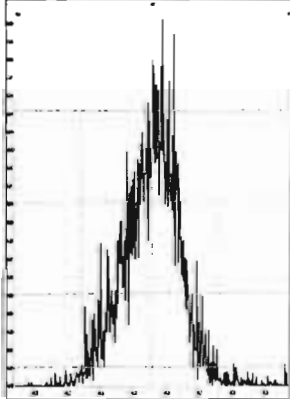
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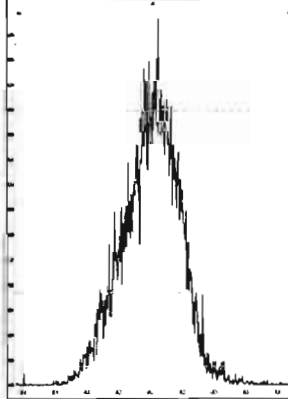
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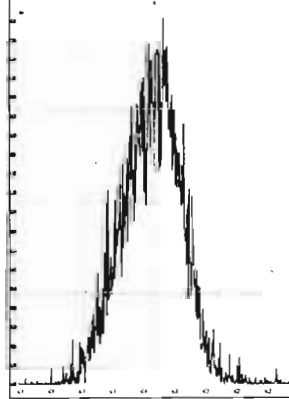
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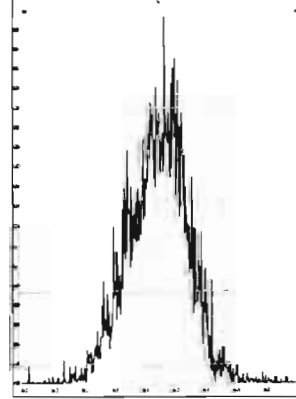
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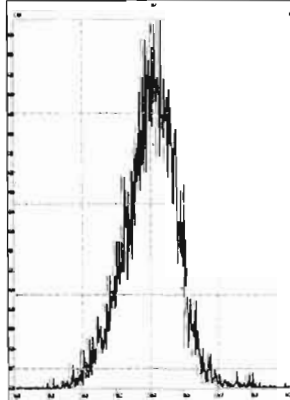
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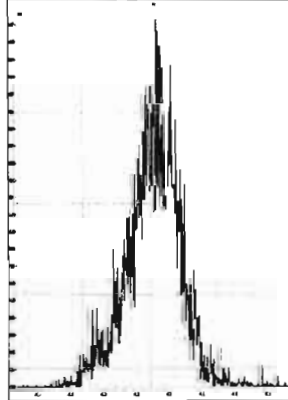
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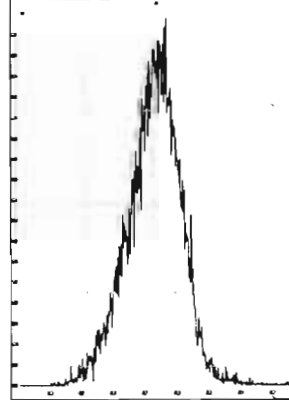
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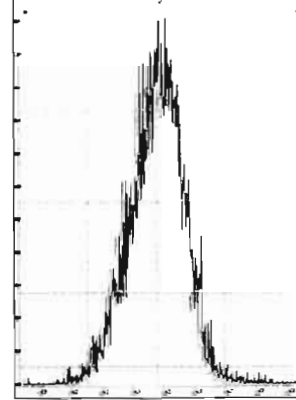
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M 430.9728 R 11831

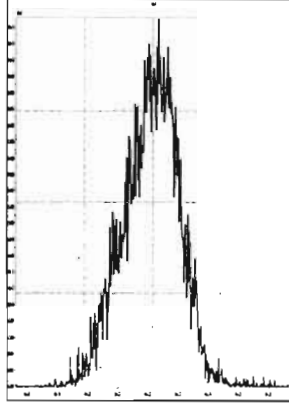


M 442.9728 R 11963

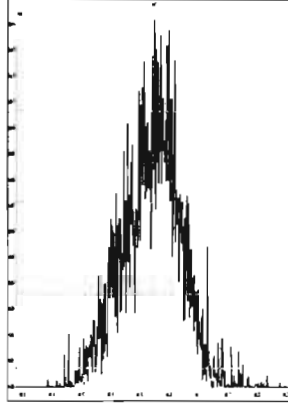


Printed: Tuesday, November 10, 2020 14:38:31 Pacific Standard Time

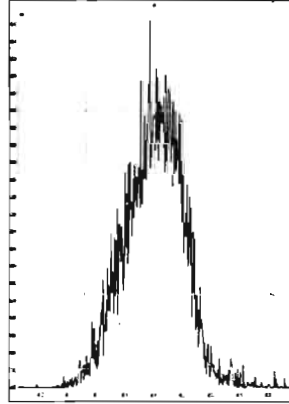
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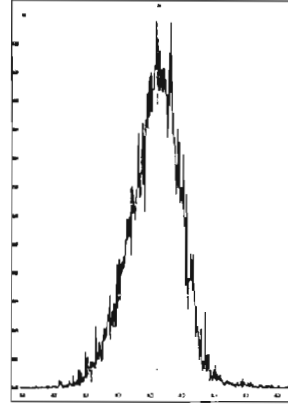
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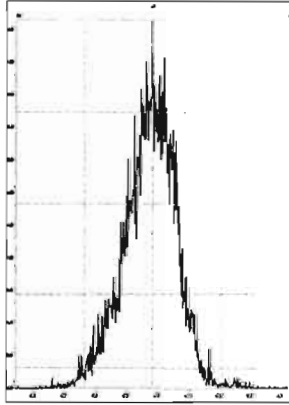
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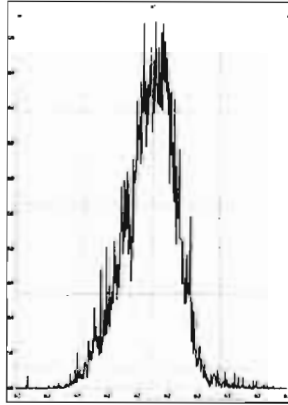
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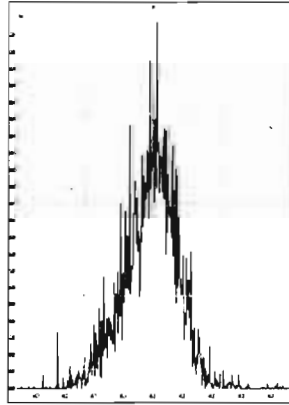
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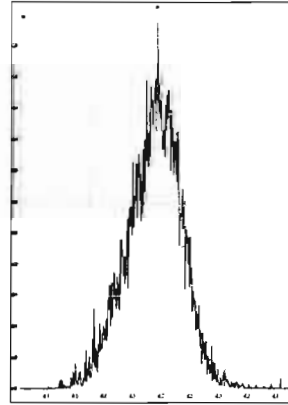
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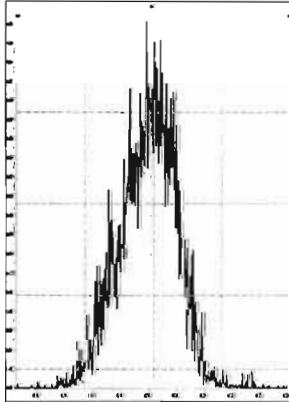
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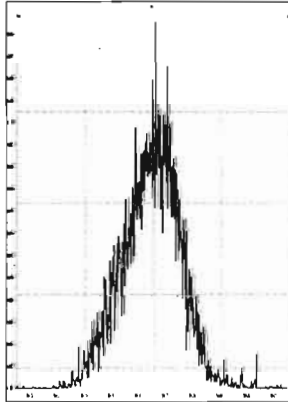
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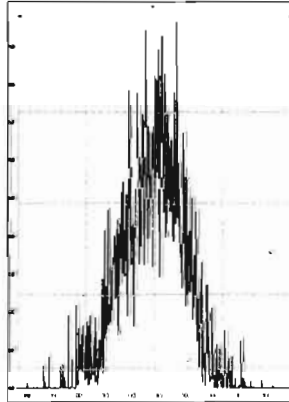
M 492.9696 R 11884



M 504.9696 R 11656



M 516.9697 R 14208



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST201026K1-1

**Reviewed By:** HN 10/27/2020  
*Initials & Date*

**End Calibration ID:** NA

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

**Mass resolution  $\geq$**   
 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:\VG11.PRO\Results\201026K1\201026K1-1.qld

Last Altered: Monday, October 26, 2020 11:18:58 Pacific Daylight Time  
Printed: Monday, October 26, 2020 11:19:14 Pacific Daylight Time

*Handwritten:*  
10/26/2020  
HW 10/27/2020

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\vb1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	1.17e6	3.16	NO	1.17	1.000	15.58	15.59	1.001	1.001	NO	56.42	113	0.0147	56.42
2	2 PCB-2	1.20e6	3.20	NO	1.18	1.000	18.00	18.00	0.988	0.988	NO	55.25	110	0.0148	55.25
3	3 PCB-3	1.18e6	3.17	NO	1.15	1.000	18.22	18.23	1.001	1.001	NO	56.25	113	0.0152	56.25
4	4 PCB-4/10	2.17e6	1.58	NO	1.25	1.000	19.65	19.65	1.004	1.004	NO	119.3	119	0.0719	119.3
5	5 PCB-7/9	2.65e6	1.57	NO	0.960	1.000	21.46	21.46	1.003	1.003	NO	118.4	118	0.0590	118.4
6	6 PCB-6	1.40e6	1.59	NO	1.02	1.000	22.11	22.11	1.033	1.033	NO	58.74	117	0.0553	58.74
7	7 PCB-5/8	2.75e6	1.57	NO	0.992	1.000	22.52	22.52	1.052	1.052	NO	118.9	119	0.0570	118.9
8	8 PCB-14	1.40e6	1.59	NO	1.02	1.000	23.65	23.66	0.951	0.952	NO	60.57	121	0.0586	60.57
9	9 PCB-11	1.49e6	1.58	NO	1.13	1.000	24.88	24.88	1.001	1.001	NO	58.12	116	0.0529	58.12
10	10 PCB-12/13	2.77e6	1.59	NO	1.03	1.000	25.31	25.25	1.018	1.016	NO	118.9	119	0.0580	118.9
11	11 PCB-15	1.41e6	1.62	NO	1.03	1.000	25.60	25.60	1.030	1.030	NO	60.07	120	0.0576	60.07
12	12 PCB-19	5.69e5	1.05	NO	1.11	1.000	23.84	23.84	1.001	1.001	NO	53.88	108	0.0322	53.88
13	13 PCB-30	9.22e5	1.05	NO	1.79	1.000	24.74	24.75	1.039	1.040	NO	53.85	108	0.0198	53.85
14	14 PCB-18	6.11e5	1.04	NO	0.818	1.000	25.52	25.52	0.952	0.952	NO	54.41	109	0.0303	54.41
15	15 PCB-17	5.88e5	1.05	NO	0.758	1.000	25.70	25.70	0.959	0.959	NO	56.41	113	0.0326	56.41
16	16 PCB-24/27	1.61e6	1.05	NO	1.08	1.000	26.30	26.29	0.981	0.981	NO	108.1	108	0.0229	108.1
17	17 PCB-16/32	1.39e6	1.04	NO	0.925	1.000	26.83	26.83	1.001	1.001	NO	109.0	109	0.0268	109.0
18	18 PCB-34	1.27e6	1.03	NO	0.945	1.000	27.64	27.64	0.959	0.959	NO	59.70	119	0.0525	59.70
19	19 PCB-23	1.16e6	1.06	NO	0.883	1.000	27.73	27.73	0.962	0.962	NO	58.56	117	0.0562	58.56
20	20 PCB-29	1.21e6	1.02	NO	0.893	1.000	27.99	27.99	0.971	0.971	NO	60.43	121	0.0556	60.43
21	21 PCB-26	1.29e6	1.04	NO	0.944	1.000	28.22	28.22	0.979	0.979	NO	60.54	121	0.0526	60.54
22	22 PCB-25	1.28e6	1.05	NO	0.950	1.000	28.37	28.38	0.984	0.985	NO	59.69	119	0.0522	59.69
23	23 PCB-31	1.43e6	1.04	NO	1.04	1.000	28.75	28.74	0.997	0.997	NO	61.14	122	0.0479	61.14
24	24 PCB-28	1.41e6	1.05	NO	1.03	1.000	28.85	28.85	1.001	1.001	NO	61.05	122	0.0484	61.05
25	25 PCB-20/21/33	3.82e6	1.04	NO	0.941	1.000	29.49	29.48	1.023	1.023	NO	180.3	120	0.0527	180.3
26	26 PCB-22	1.32e6	1.03	NO	0.973	1.000	29.93	29.93	1.038	1.038	NO	60.14	120	0.0510	60.14
27	27 PCB-36	1.38e6	1.05	NO	1.08	1.000	30.58	30.58	0.931	0.931	NO	61.16	122	0.0518	61.16
28	28 PCB-39	1.26e6	1.05	NO	0.988	1.000	31.08	31.06	0.947	0.946	NO	60.55	121	0.0565	60.55
29	29 PCB-38	1.32e6	1.05	NO	1.05	1.000	31.86	31.86	0.970	0.971	NO	59.77	120	0.0530	59.77
30	30 PCB-35	1.34e6	1.06	NO	1.04	1.000	32.41	32.40	0.987	0.987	NO	60.85	122	0.0535	60.85
31	31 PCB-37	1.31e6	1.05	NO	1.01	1.000	32.85	32.85	1.001	1.001	NO	61.55	123	0.0553	61.55
32	32 PCB-54	7.74e5	0.78	NO	1.08	1.000	27.68	27.68	1.001	1.001	NO	55.62	111	0.0365	55.62

*Handwritten:* 75125 (with a vertical line pointing to the %Rec column)

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-1.qld

Last Altered: Monday, October 26, 2020 11:18:58 Pacific Daylight Time  
Printed: Monday, October 26, 2020 11:19:14 Pacific Daylight Time

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	6.49e5	0.78	NO	0.880	1.000	28.89	28.89	1.044	1.044	NO	57.23	114	0.0448	57.23
34	34 PCB-53	5.97e5	0.78	NO	0.997	1.000	29.56	29.56	0.944	0.944	NO	56.68	113	0.0484	56.68
35	35 PCB-51	6.40e5	0.78	NO	1.07	1.000	29.92	29.91	0.955	0.955	NO	56.80	114	0.0453	56.80
36	36 PCB-45	5.26e5	0.78	NO	0.858	1.000	30.36	30.36	0.969	0.969	NO	57.94	116	0.0562	57.94
37	37 PCB-46	4.93e5	0.79	NO	0.831	1.000	30.86	30.86	0.985	0.985	NO	56.18	112	0.0581	56.18
38	38 PCB-52/69	1.38e6	0.78	NO	1.17	1.000	31.36	31.36	1.001	1.001	NO	111.9	112	0.0413	111.9
39	39 PCB-73	8.87e5	0.77	NO	1.44	1.000	31.48	31.47	1.005	1.005	NO	58.15	116	0.0334	58.15
40	40 PCB-43/49	1.22e6	0.78	NO	1.02	1.000	31.65	31.64	1.010	1.010	NO	113.3	113	0.0475	113.3
41	41 PCB-47	6.41e5	0.78	NO	0.922	1.000	31.86	31.86	1.001	1.001	NO	61.07	122	0.0489	61.07
42	42 PCB-48/75	1.39e6	0.78	NO	1.12	1.000	31.98	31.98	1.004	1.004	NO	108.8	109	0.0402	108.8
43	43 PCB-65	8.21e5	0.78	NO	1.28	1.000	32.26	32.26	1.013	1.013	NO	56.25	112	0.0352	56.25
44	44 PCB-62	7.15e5	0.77	NO	1.13	1.000	32.35	32.37	1.016	1.016	NO	55.67	111	0.0400	55.67
45	45 PCB-44	5.32e5	0.77	NO	0.824	1.000	32.68	32.68	1.026	1.026	NO	56.66	113	0.0547	56.66
46	46 PCB-42/59	1.33e6	0.78	NO	1.05	1.000	32.91	32.91	1.033	1.033	NO	111.4	111	0.0429	111.4
47	47 PCB-41/64/71/72	2.95e6	0.79	NO	1.19	1.000	33.52	33.52	1.053	1.053	NO	218.5	109	0.0380	218.5
48	48 PCB-68	7.94e5	0.78	NO	1.28	1.000	33.78	33.80	1.061	1.061	NO	54.56	109	0.0353	54.56
49	49 PCB-40	3.99e5	0.78	NO	0.602	1.000	34.00	34.00	1.067	1.068	NO	58.21	116	0.0749	58.21
50	50 PCB-57	8.49e5	0.79	NO	1.16	1.000	34.39	34.38	0.969	0.969	NO	56.10	112	0.0342	56.10
51	51 PCB-67	8.31e5	0.79	NO	1.08	1.000	34.69	34.69	0.978	0.978	NO	58.93	118	0.0367	58.93
52	52 PCB-58	8.35e5	0.79	NO	1.20	1.000	34.82	34.82	0.982	0.982	NO	53.34	107	0.0330	53.34
53	53 PCB-63	7.90e5	0.79	NO	1.07	1.000	34.97	34.97	0.986	0.986	NO	56.64	113	0.0371	56.64
54	54 PCB-74	8.55e5	0.78	NO	1.19	1.000	35.28	35.27	0.994	0.994	NO	55.45	111	0.0336	55.45
55	55 PCB-61/70	1.57e6	0.78	NO	1.05	1.000	35.49	35.42	1.000	0.998	NO	114.5	115	0.0377	114.5
56	56 PCB-76/66	1.70e6	0.78	NO	1.16	1.000	35.68	35.70	1.006	1.006	NO	112.4	112	0.0342	112.4
57	57 PCB-80	8.85e5	0.78	NO	1.19	1.000	35.95	35.94	1.001	1.001	NO	55.75	111	0.0329	55.75
58	58 PCB-55	8.93e5	0.77	NO	1.17	1.000	36.28	36.26	1.010	1.009	NO	57.14	114	0.0334	57.14
59	59 PCB-56/60	1.51e6	0.78	NO	1.02	1.000	36.77	36.76	1.024	1.023	NO	111.0	111	0.0384	111.0
60	60 PCB-79	8.32e5	0.79	NO	1.14	1.000	37.90	37.88	1.055	1.054	NO	54.64	109	0.0343	54.64
61	61 PCB-78	7.88e5	0.78	NO	1.14	1.000	38.60	38.60	0.987	0.987	NO	56.12	112	0.0388	56.12
62	62 PCB-81	6.89e5	0.78	NO	1.05	1.000	39.14	39.14	1.000	1.000	NO	53.25	106	0.0422	53.25
63	63 PCB-77	7.47e5	0.77	NO	1.14	1.000	39.76	39.75	1.000	1.000	NO	55.36	111	0.0403	55.36
64	64 PCB-104	4.76e5	1.62	NO	1.12	1.000	32.54	32.53	1.001	1.001	NO	54.83	110	0.0361	54.83
65	65 PCB-96	4.70e5	1.58	NO	1.15	1.000	33.84	33.84	1.041	1.041	NO	52.64	105	0.0352	52.64
66	66 PCB-103	3.76e5	1.62	NO	0.936	1.000	34.40	34.40	1.058	1.058	NO	51.92	104	0.0433	51.92
67	67 PCB-100	3.82e5	1.61	NO	0.954	1.000	34.77	34.77	1.069	1.069	NO	51.74	103	0.0425	51.74
68	68 PCB-94	3.01e5	1.60	NO	0.949	1.000	35.25	35.25	0.985	0.985	NO	51.44	103	0.0550	51.44

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Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	1.16e6	1.60	NO	1.20	1.000	35.72	35.74	0.999	0.999	NO	155.7	104	0.0434	155.7
70	70 PCB-93	3.05e5	1.64	NO	0.935	1.000	35.87	35.88	1.003	1.003	NO	52.91	106	0.0559	52.91
71	71 PCB-88/91	6.80e5	1.59	NO	1.06	1.000	36.20	36.20	1.012	1.012	NO	103.6	104	0.0491	103.6
72	72 PCB-121	5.41e5	1.61	NO	1.71	1.000	36.31	36.31	1.015	1.015	NO	51.34	103	0.0306	51.34
73	73 PCB-84/92	6.53e5	1.60	NO	1.02	1.000	37.15	37.15	0.990	0.990	NO	108.8	109	0.0534	108.8
74	74 PCB-89	3.48e5	1.60	NO	1.11	1.000	37.34	37.34	0.995	0.995	NO	53.41	107	0.0492	53.41
75	75 PCB-90/101	6.91e5	1.64	NO	1.12	1.000	37.53	37.54	1.000	1.000	NO	104.4	104	0.0484	104.4
76	76 PCB-113	4.65e5	1.62	NO	1.51	1.000	37.78	37.80	1.007	1.007	NO	52.09	104	0.0359	52.09
77	77 PCB-99	4.20e5	1.62	NO	1.32	1.000	37.88	37.89	1.010	1.010	NO	53.95	108	0.0412	53.95
78	78 PCB-119	4.77e5	1.64	NO	1.81	1.000	38.36	38.36	0.987	0.987	NO	51.18	102	0.0346	51.18
79	79 PCB-108/112	8.02e5	1.59	NO	1.44	1.000	38.52	38.53	0.991	0.991	NO	107.6	108	0.0432	107.6
80	80 PCB-83	4.90e5	1.61	NO	1.83	1.000	38.69	38.69	0.996	0.996	NO	51.91	104	0.0341	51.91
81	81 PCB-97	3.46e5	1.61	NO	1.28	1.000	38.88	38.90	1.000	1.001	NO	52.27	105	0.0487	52.27
82	82 PCB-86	3.14e5	1.61	NO	1.12	1.000	39.05	39.05	1.005	1.005	NO	54.54	109	0.0558	54.54
83	83 PCB-87/117/125	1.29e6	1.59	NO	1.56	1.000	39.17	39.18	1.008	1.008	NO	160.5	107	0.0400	160.5
84	84 PCB-111/115	9.94e5	1.61	NO	1.91	1.000	39.33	39.35	1.012	1.012	NO	100.9	101	0.0327	100.9
85	85 PCB-85/116	7.81e5	1.63	NO	1.41	1.000	39.46	39.46	1.015	1.015	NO	107.3	107	0.0442	107.3
86	86 PCB-120	5.33e5	1.61	NO	2.01	1.000	39.72	39.72	1.022	1.022	NO	51.55	103	0.0311	51.55
87	87 PCB-110	4.85e5	1.64	NO	1.74	1.000	39.87	39.87	1.026	1.026	NO	53.90	108	0.0358	53.90
88	88 PCB-82	2.82e5	1.59	NO	0.781	1.000	40.50	40.50	0.975	0.975	NO	53.26	107	0.0592	53.26
89	89 PCB-124	4.78e5	1.60	NO	1.40	1.000	41.21	41.22	0.993	0.993	NO	50.55	101	0.0331	50.55
90	90 PCB-107/109	9.82e5	1.61	NO	1.34	1.000	41.35	41.37	0.996	0.996	NO	108.0	108	0.0345	108.0
91	91 PCB-123	4.36e5	1.59	NO	1.20	1.000	41.54	41.54	1.000	1.000	NO	53.68	107	0.0386	53.68
92	92 PCB-106/118	9.23e5	1.61	NO	1.22	1.000	41.75	41.76	1.001	1.001	NO	109.0	109	0.0374	109.0
93	93 PCB-114	8.67e5	1.58	NO	1.14	1.000	42.41	42.40	1.000	1.000	NO	58.29	117	0.0300	58.29
94	94 PCB-122	7.63e5	1.61	NO	0.944	1.000	42.55	42.54	1.004	1.004	NO	61.99	124	0.0362	61.99
95	95 PCB-105	7.96e5	1.58	NO	1.05	1.000	43.29	43.29	1.000	1.000	NO	56.87	114	0.0321	56.87
96	96 PCB-127	8.38e5	1.62	NO	1.06	1.000	43.65	43.65	1.000	1.000	NO	57.79	116	0.0313	57.79
97	97 PCB-126	7.98e5	1.58	NO	1.17	1.000	45.61	45.61	1.000	1.000	NO	57.54	115	0.0329	57.54
98	98 PCB-155	2.27e5	1.29	NO	1.04	1.000	37.07	37.07	1.000	1.000	NO	52.01	104	0.0376	52.01
99	99 PCB-150	2.41e5	1.33	NO	1.08	1.000	38.38	38.38	1.036	1.036	NO	53.24	106	0.0362	53.24
100	1... PCB-152	2.69e5	1.31	NO	1.19	1.000	38.86	38.86	1.049	1.049	NO	54.37	109	0.0330	54.37
101	1... PCB-145	2.63e5	1.33	NO	1.19	1.000	39.33	39.33	1.061	1.061	NO	52.95	106	0.0330	52.95
102	1... PCB-136	2.26e5	1.32	NO	1.02	1.000	39.66	39.66	1.070	1.070	NO	52.93	106	0.0384	52.93
103	1... PCB-148	1.86e5	1.34	NO	0.842	1.000	39.77	39.77	1.073	1.073	NO	52.97	106	0.0466	52.97
104	1... PCB-154	1.97e5	1.31	NO	0.919	1.000	40.28	40.29	1.087	1.087	NO	51.42	103	0.0427	51.42

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Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	1.71e5	1.31	NO	0.787	1.000	40.95	40.95	1.105	1.105	NO	52.13	104	0.0498	52.13
106	1... PCB-135	1.92e5	1.30	NO	0.922	1.000	41.17	41.17	1.111	1.111	NO	49.72	99.4	0.0425	49.72
107	1... PCB-144	1.81e5	1.31	NO	0.789	1.000	41.28	41.28	1.114	1.114	NO	54.98	110	0.0497	54.98
108	1... PCB-147	1.75e5	1.33	NO	0.834	1.000	41.41	41.41	1.117	1.118	NO	50.33	101	0.0470	50.33
109	1... PCB-139/149	3.99e5	1.31	NO	0.948	1.000	41.70	41.69	1.125	1.125	NO	100.8	101	0.0414	100.8
110	1... PCB-140	1.77e5	1.28	NO	0.794	1.000	41.88	41.88	1.130	1.130	NO	53.41	107	0.0494	53.41
111	1... PCB-134/143	8.51e5	1.25	NO	0.759	1.000	42.33	42.33	0.974	0.974	NO	114.7	115	0.0639	114.7
112	1... PCB-131/133	9.02e5	1.26	NO	0.821	1.000	42.65	42.63	0.982	0.981	NO	112.4	112	0.0591	112.4
113	1... PCB-142	4.07e5	1.25	NO	0.754	1.000	42.81	42.80	0.985	0.985	NO	55.22	110	0.0643	55.22
114	1... PCB-146/165	1.08e6	1.27	NO	1.02	1.000	43.05	43.03	0.991	0.990	NO	108.7	109	0.0477	108.7
115	1... PCB-132/161	1.07e6	1.28	NO	1.02	1.000	43.29	43.28	0.997	0.996	NO	106.6	107	0.0474	106.6
116	1... PCB-153	5.59e5	1.24	NO	1.07	1.000	43.46	43.47	1.000	1.000	NO	53.42	107	0.0453	53.42
117	1... PCB-168	5.56e5	1.23	NO	1.08	1.000	43.69	43.69	1.006	1.006	NO	52.81	106	0.0450	52.81
118	1... PCB-141	4.46e5	1.27	NO	1.03	1.000	44.22	44.22	1.000	1.000	NO	55.78	112	0.0604	55.78
119	1... PCB-137	4.63e5	1.24	NO	1.11	1.000	44.62	44.62	1.009	1.009	NO	53.47	107	0.0559	53.47
120	1... PCB-130	3.91e5	1.26	NO	0.885	1.000	44.71	44.73	1.012	1.012	NO	56.59	113	0.0701	56.59
121	1... PCB-138/163/164	1.71e6	1.26	NO	1.28	1.000	45.11	45.11	1.001	1.001	NO	161.0	107	0.0448	161.0
122	1... PCB-158/160	1.10e6	1.26	NO	1.24	1.000	45.38	45.36	1.007	1.006	NO	107.2	107	0.0464	107.2
123	1... PCB-129	3.76e5	1.25	NO	0.867	1.000	45.61	45.61	1.012	1.012	NO	52.53	105	0.0664	52.53
124	1... PCB-166	5.82e5	1.26	NO	1.14	1.000	46.08	46.08	0.993	0.993	NO	51.63	103	0.0439	51.63
125	1... PCB-159	6.44e5	1.24	NO	1.22	1.000	46.43	46.42	1.001	1.000	NO	53.65	107	0.0413	53.65
126	1... PCB-128/162	9.81e5	1.24	NO	0.907	1.000	46.71	46.72	1.007	1.007	NO	109.7	110	0.0553	109.7
127	1... PCB-167	4.86e5	1.25	NO	1.11	1.000	47.12	47.12	1.000	1.000	NO	52.77	106	0.0538	52.77
128	1... PCB-156	5.52e5	1.27	NO	1.13	1.000	48.45	48.47	1.000	1.001	NO	54.14	108	0.0495	54.14
129	1... PCB-157	5.10e5	1.24	NO	1.04	1.000	48.73	48.73	1.000	1.000	NO	54.68	109	0.0528	54.68
130	1... PCB-169	5.27e5	1.28	NO	1.16	1.000	51.01	51.01	1.000	1.000	NO	54.89	110	0.0529	54.89
131	1... PCB-188	4.73e5	1.01	NO	1.29	1.000	43.11	43.09	1.001	1.000	NO	54.55	109	0.0685	54.55
132	1... PCB-184	4.69e5	1.04	NO	1.23	1.000	43.56	43.54	1.011	1.011	NO	56.65	113	0.0718	56.65
133	1... PCB-179	4.66e5	1.07	NO	1.30	1.000	44.36	44.34	1.030	1.029	NO	53.36	107	0.0681	53.36
134	1... PCB-176	4.76e5	1.07	NO	1.31	1.000	44.85	44.83	1.041	1.041	NO	54.14	108	0.0676	54.14
135	1... PCB-186	4.87e5	1.08	NO	1.33	1.000	45.47	45.45	1.056	1.055	NO	54.53	109	0.0665	54.53
136	1... PCB-178	3.40e5	1.07	NO	0.943	1.000	45.99	45.97	1.068	1.067	NO	53.62	107	0.0937	53.62
137	1... PCB-175	3.51e5	1.02	NO	0.956	1.000	46.35	46.33	1.076	1.076	NO	54.58	109	0.0924	54.58
138	1... PCB-182/187	7.76e5	1.04	NO	1.07	1.000	46.52	46.50	1.080	1.080	NO	108.3	108	0.0829	108.3
139	1... PCB-183	3.72e5	1.07	NO	1.02	1.000	46.84	46.84	1.088	1.088	NO	54.11	108	0.0864	54.11
140	1... PCB-185	3.33e5	1.07	NO	1.41	1.000	47.50	47.50	0.955	0.955	NO	53.63	107	0.0956	53.63

75-1257

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-1.qld

Last Altered: Monday, October 26, 2020 11:18:58 Pacific Daylight Time

Printed: Monday, October 26, 2020 11:19:14 Pacific Daylight Time

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	3.12e5	1.06	NO	1.35	1.000	47.87	47.88	0.962	0.962	NO	52.26	105	0.0993	52.26
142	1... PCB-181	3.40e5	1.07	NO	1.47	1.000	47.98	47.99	0.964	0.965	NO	52.22	104	0.0912	52.22
143	1... PCB-177	3.09e5	1.08	NO	1.28	1.000	48.16	48.16	0.968	0.968	NO	54.78	110	0.105	54.78
144	1... PCB-171	3.11e5	1.05	NO	1.32	1.000	48.47	48.47	0.974	0.974	NO	53.55	107	0.102	53.55
145	1... PCB-173	2.84e5	1.04	NO	1.19	1.000	48.89	48.90	0.983	0.983	NO	54.13	108	0.113	54.13
146	1... PCB-172	3.30e5	1.07	NO	1.38	1.000	49.36	49.38	0.992	0.992	NO	54.33	109	0.0977	54.33
147	1... PCB-192	4.17e5	1.05	NO	1.83	1.000	49.57	49.57	0.996	0.996	NO	51.69	103	0.0736	51.69
148	1... PCB-180	3.40e5	1.06	NO	1.41	1.000	49.78	49.79	1.000	1.001	NO	54.60	109	0.0952	54.60
149	1... PCB-193	3.86e5	1.04	NO	1.68	1.000	49.99	50.00	1.005	1.005	NO	52.12	104	0.0802	52.12
150	1... PCB-191	3.90e5	1.06	NO	1.71	1.000	50.25	50.27	1.010	1.010	NO	51.60	103	0.0786	51.60
151	1... PCB-170	2.85e5	1.06	NO	1.40	1.000	51.44	51.44	1.000	1.000	NO	55.13	110	0.109	55.13
152	1... PCB-190	3.63e5	1.07	NO	1.85	1.000	51.65	51.65	1.005	1.004	NO	53.16	106	0.0822	53.16
153	1... PCB-189	3.46e5	1.02	NO	1.45	1.000	53.15	53.15	1.000	1.000	NO	54.69	109	0.0771	54.69
154	1... PCB-202	2.76e5	0.91	NO	1.17	1.000	48.70	48.68	1.001	1.000	NO	52.07	104	0.0590	52.07
155	1... PCB-201	2.51e5	0.93	NO	1.05	1.000	49.17	49.17	1.010	1.011	NO	52.45	105	0.0654	52.45
156	1... PCB-204	2.73e5	0.95	NO	1.14	1.000	49.32	49.34	1.014	1.014	NO	52.70	105	0.0604	52.70
157	1... PCB-197	2.71e5	0.95	NO	1.13	1.000	49.63	49.64	1.020	1.020	NO	52.69	105	0.0608	52.69
158	1... PCB-200	2.52e5	0.94	NO	1.07	1.000	50.57	50.59	1.039	1.040	NO	51.95	104	0.0644	51.95
159	1... PCB-198	1.97e5	0.92	NO	0.794	1.000	52.12	52.14	1.071	1.072	NO	54.64	109	0.0868	54.64
160	1... PCB-199	1.85e5	0.92	NO	0.809	1.000	52.26	52.26	1.074	1.074	NO	50.26	101	0.0851	50.26
161	1... PCB-196/203	3.89e5	0.92	NO	0.838	1.000	52.55	52.56	1.080	1.080	NO	102.3	102	0.0822	102.3
162	1... PCB-195	3.35e5	0.89	NO	1.04	1.000	53.84	53.84	0.984	0.984	NO	54.59	109	0.0547	54.59
163	1... PCB-194	3.62e5	0.90	NO	1.12	1.000	54.75	54.75	1.000	1.000	NO	55.24	110	0.0512	55.24
164	1... PCB-205	4.18e5	0.92	NO	1.29	1.000	55.03	55.03	1.005	1.005	NO	55.17	110	0.0443	55.17
165	1... PCB-208	3.18e5	1.39	NO	0.933	1.000	53.99	53.99	1.000	1.000	NO	53.25	106	0.0490	53.25
166	1... PCB-207	3.24e5	1.34	NO	0.916	1.000	54.31	54.33	1.006	1.007	NO	55.35	111	0.0499	55.35
167	1... PCB-206	2.22e5	1.38	NO	1.01	1.000	56.29	56.29	1.000	1.000	NO	52.91	106	0.0665	52.91
168	1... PCB-209	2.15e5	1.21	NO	0.986	1.000	57.50	57.51	1.000	1.000	NO	53.11	106	0.0176	53.11
169	1... 13C-PCB-1	1.78e6	3.24	NO	0.893	1.000	15.58	15.57	0.609	0.609	NO	84.84	84.8	0.0655	
170	1... 13C-PCB-3	1.83e6	3.20	NO	0.911	1.000	18.22	18.21	0.712	0.712	NO	85.46	85.5	0.0642	
171	1... 13C-PCB-4	1.46e6	1.65	NO	0.600	1.000	19.59	19.57	0.766	0.765	NO	103.2	103	0.0470	
172	1... 13C-PCB-9	2.33e6	1.63	NO	0.970	1.000	21.40	21.40	0.837	0.837	NO	102.2	102	0.0291	
173	1... 13C-PCB-11	2.27e6	1.62	NO	0.962	1.000	24.86	24.86	0.972	0.972	NO	100.5	101	0.0293	
174	1... 13C-PCB-19	9.54e5	1.06	NO	0.499	1.000	23.82	23.81	0.931	0.931	NO	81.38	81.4	0.259	
175	1... 13C-PCB-32	1.37e6	1.07	NO	0.744	1.000	26.81	26.81	1.048	1.048	NO	78.55	78.6	0.174	
176	1... 13C-PCB-28	2.25e6	1.04	NO	1.06	1.000	28.83	28.83	1.004	1.004	NO	96.37	96.4	0.193	

Handwritten notes in blue ink: "75-1257" at the top, a vertical line with arrows pointing down, and "52-119" near the bottom.

Dataset: U:\VG11.PRO\Results\201026K1\201026K1-1.qld

Last Altered: Monday, October 26, 2020 11:18:58 Pacific Daylight Time

Printed: Monday, October 26, 2020 11:19:14 Pacific Daylight Time

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	2.10e6	1.06	NO	0.989	1.000	32.81	32.83	1.143	1.143	NO	96.98	97.0	0.207	
178	1... 13C-PCB-54	1.29e6	0.80	NO	0.999	1.000	27.67	27.66	0.753	0.752	NO	100.2	100	0.0945	
179	1... 13C-PCB-52	1.06e6	0.78	NO	0.804	1.000	31.34	31.32	0.853	0.852	NO	102.1	102	0.117	
180	1... 13C-PCB-47	1.14e6	0.80	NO	0.857	1.000	31.87	31.85	0.867	0.866	NO	103.2	103	0.110	
181	1... 13C-PCB-70	1.30e6	0.80	NO	0.996	1.000	35.49	35.47	0.965	0.965	NO	101.5	101	0.0948	
182	1... 13C-PCB-80	1.34e6	0.80	NO	1.03	1.000	35.92	35.92	0.977	0.977	NO	101.1	101	0.0918	
183	1... 13C-PCB-81	1.24e6	0.80	NO	0.988	1.000	39.12	39.12	1.064	1.064	NO	97.22	97.2	0.0955	
184	1... 13C-PCB-77	1.19e6	0.82	NO	0.969	1.000	39.74	39.74	1.081	1.081	NO	95.13	95.1	0.0974	
185	1... 13C-PCB-104	7.73e5	1.66	NO	1.02	1.000	32.51	32.52	0.827	0.827	NO	104.4	104	0.0609	
186	1... 13C-PCB-95	6.16e5	1.63	NO	0.805	1.000	35.77	35.77	0.910	0.910	NO	105.0	105	0.0769	
187	1... 13C-PCB-101	5.89e5	1.61	NO	0.793	1.000	37.52	37.52	0.954	0.954	NO	102.0	102	0.0781	
188	1... 13C-PCB-97	5.16e5	1.64	NO	0.696	1.000	38.85	38.86	0.988	0.988	NO	101.6	102	0.0889	
189	1... 13C-PCB-123	6.78e5	1.66	NO	0.933	1.000	41.52	41.52	1.056	1.056	NO	99.63	99.6	0.0664	
190	1... 13C-PCB-118	6.95e5	1.71	NO	0.986	1.000	41.71	41.71	1.061	1.061	NO	96.66	96.7	0.0628	
191	1... 13C-PCB-114	1.30e6	1.57	NO	1.55	1.000	42.36	42.39	0.908	0.908	NO	121.8	122	0.0823	
192	1... 13C-PCB-105	1.33e6	1.60	NO	1.57	1.000	43.28	43.28	0.927	0.927	NO	122.5	122	0.0810	
193	1... 13C-PCB-127	1.37e6	1.61	NO	1.62	1.000	43.61	43.64	0.935	0.935	NO	121.8	122	0.0784	
194	1... 13C-PCB-126	1.18e6	1.61	NO	1.57	1.000	45.57	45.59	0.976	0.977	NO	109.1	109	0.0812	
195	1... 13C-PCB-155	4.18e5	1.31	NO	0.615	1.000	37.06	37.06	0.942	0.942	NO	93.21	93.2	0.0494	
196	1... 13C-PCB-153	9.77e5	1.25	NO	1.36	1.000	43.42	43.45	0.930	0.931	NO	103.5	104	0.0819	
197	1... 13C-PCB-141	7.79e5	1.27	NO	1.13	1.000	44.21	44.20	0.947	0.947	NO	99.88	99.9	0.0991	
198	1... 13C-PCB-138	8.26e5	1.27	NO	1.18	1.000	45.06	45.08	0.965	0.966	NO	100.8	101	0.0944	
199	1... 13C-PCB-159	9.86e5	1.29	NO	1.44	1.000	46.40	46.40	0.994	0.994	NO	99.02	99.0	0.0777	
200	2... 13C-PCB-167	8.30e5	1.25	NO	1.44	1.000	47.10	47.10	1.009	1.009	NO	83.33	83.3	0.0776	
201	2... 13C-PCB-156	9.05e5	1.29	NO	1.40	1.000	48.43	48.43	1.038	1.038	NO	93.65	93.7	0.0800	
202	2... 13C-PCB-157	8.99e5	1.29	NO	1.40	1.000	48.72	48.71	1.044	1.044	NO	92.99	93.0	0.0800	
203	2... 13C-PCB-169	8.29e5	1.29	NO	1.33	1.000	50.99	50.99	1.093	1.093	NO	90.06	90.1	0.0840	
204	2... 13C-PCB-188	6.72e5	0.46	NO	1.41	1.000	43.05	43.07	0.926	0.926	NO	98.85	98.8	0.0691	
205	2... 13C-PCB-180	4.42e5	0.46	NO	0.929	1.000	49.76	49.76	1.070	1.070	NO	98.53	98.5	0.105	
206	2... 13C-PCB-170	3.69e5	0.47	NO	0.794	1.000	51.42	51.42	1.106	1.106	NO	96.23	96.2	0.123	
207	2... 13C-PCB-189	4.35e5	0.46	NO	1.04	1.000	53.13	53.13	1.143	1.143	NO	86.30	86.3	0.0932	
208	2... 13C-PCB-202	4.54e5	0.93	NO	1.04	1.000	48.66	48.66	1.046	1.046	NO	90.79	90.8	0.0585	
209	2... 13C-PCB-194	5.88e5	0.91	NO	0.768	1.000	54.73	54.74	0.995	0.995	NO	100.8	101	0.0775	
210	2... 13C-PCB-208	6.40e5	0.79	NO	0.991	1.000	53.97	53.97	0.981	0.981	NO	85.08	85.1	0.0762	
211	2... 13C-PCB-206	4.16e5	0.81	NO	0.552	1.000	56.27	56.27	1.023	1.023	NO	99.31	99.3	0.137	
212	2... 13C-PCB-209	4.10e5	1.23	NO	0.396	1.000	57.52	57.50	1.046	1.045	NO	136.2	136	0.0360	

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Dataset: U:\VG11.PRO\Results\201026K1\201026K1-1.qld

Last Altered: Monday, October 26, 2020 11:18:58 Pacific Daylight Time  
Printed: Monday, October 26, 2020 11:19:14 Pacific Daylight Time

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	2.35e6	1.59	NO	1.00	1.000	25.58	25.58	1.000	0.000	NO	100.0	100	0.0282	
214	2... 13C-PCB-31	2.19e6	1.04	NO	1.00	1.000	28.72	28.72	1.000	0.000	NO	100.0	100	0.205	
215	2... 13C-PCB-60	1.29e6	0.80	NO	1.00	1.000	36.74	36.76	1.000	0.000	NO	100.0	100	0.0944	
216	2... 13C-PCB-111	7.29e5	1.63	NO	1.00	1.000	39.33	39.33	1.000	0.000	NO	100.0	100	0.0619	
217	2... 13C-PCB-128	6.92e5	1.25	NO	1.00	1.000	46.67	46.67	1.000	0.000	NO	100.0	100	0.112	
218	2... 13C-PCB-182	4.83e5	0.45	NO	1.00	1.000	46.50	46.50	0.000	0.000	NO	100.0	100	0.0973	
219	2... 13C-PCB-205	7.59e5	0.93	NO	1.00	1.000	55.01	55.01	1.000	0.000	NO	100.0	100	0.0595	
220	2... 13C-PCB-79	1.37e6	0.79	NO	1.07	1.000	37.86	37.86	1.030	1.030	NO	99.89	99.9	0.0883	
221	2... 13C-PCB-178	4.59e5	0.47	NO	0.766	1.000	45.95	45.95	0.988	0.988	NO	86.51	86.5	0.0918	
222	2... 13C-PCB-79	1.37e6	0.79	NO	1.08	1.000	37.85	37.86	0.968	0.968	NO	102.7	103	0.0931	
223	2... 13C-PCB-178	4.59e5	0.47	NO	1.05	1.000	45.94	45.95	0.923	0.923	NO	98.86	98.9	0.106	

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Dataset: Untitled

Last Altered: Tuesday, October 27, 2020 07:39:31 Pacific Daylight Time

Printed: Tuesday, October 27, 2020 07:39:47 Pacific Daylight Time

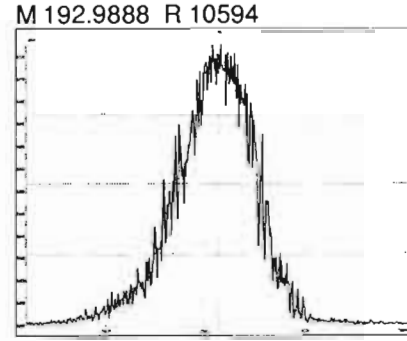
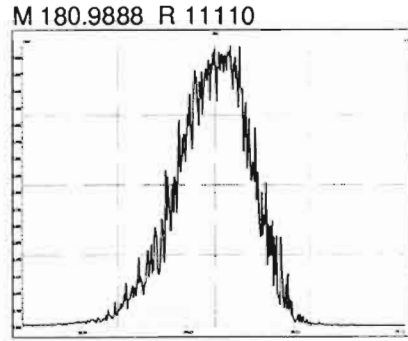
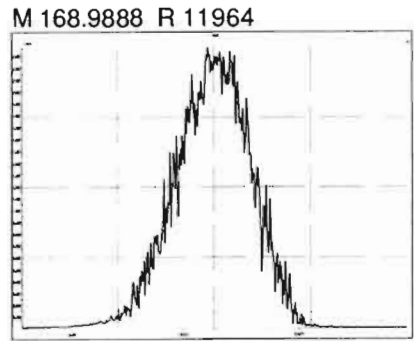
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Compound name: PCB-1

	Name	ID	Acq.Date	Acq.Time
1	201026K1_1	ST201026K1-1 PCB 209 CS3 19G2609	26-Oct-20	09:33:41
2	201026K1_2	B0J0186-BS1 OPR 5	26-Oct-20	10:33:32
3	201026K1_3	SOLVENT BLANK	26-Oct-20	11:32:49
4	201026K1_4	B0J0186-BLK1 Method Blank 5	26-Oct-20	12:33:13
5	201026K1_5	2002097-05 SD-303-BULK_A 21.88	26-Oct-20	13:33:40
6	201026K1_6	2002097-06 SD-303-BULK_B 19.72	26-Oct-20	14:33:58
7	201026K1_7	2002097-07 SD-304-BULK_A 20.47	26-Oct-20	15:34:21
8	201026K1_8	2002097-08 SD-304-BULK_B 17.6	26-Oct-20	16:34:44
9	201026K1_9	2002097-09 SD-305-BULK_A 20.37	26-Oct-20	17:35:07
10	201026K1_10	2002097-10 SD-305-BULK_B 18.37	26-Oct-20	18:35:30
11	201026K1_11	2002114-01 NCPDI-062SG-00-10.7-201005 9	26-Oct-20	19:35:52
12	201026K1_12	2002114-02 NCPDI-063SG-00-11.7-201005 9....	26-Oct-20	20:36:13

File: Experiment: pcb\_zb1.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, October 26, 2020 09:30:04 Pacific Daylight Time



M 204.9888 R 11846

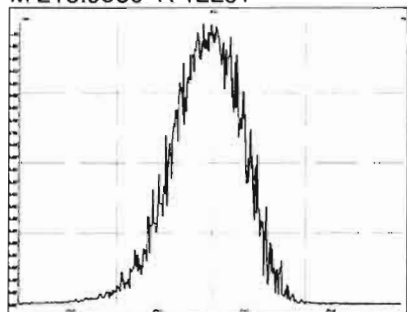
Experiment Calibration Report

MassLynx 4.1 SCN815

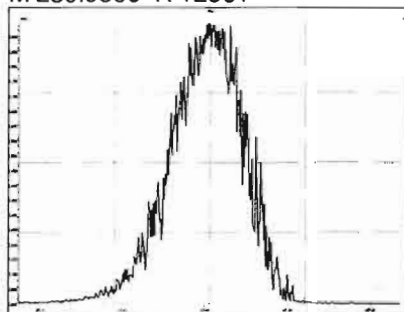
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Printed: Monday, October 26, 2020 09:30:45 Pacific Daylight Time

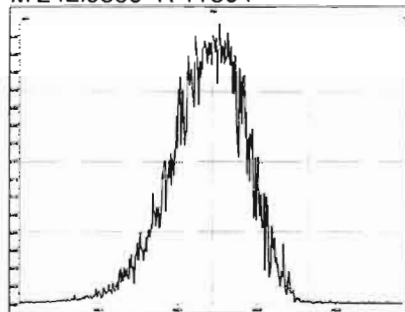
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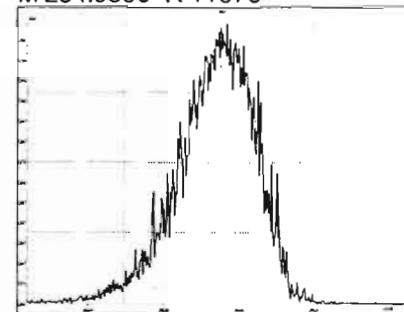
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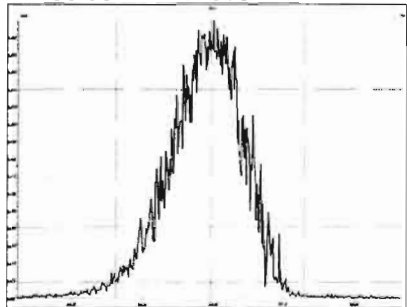
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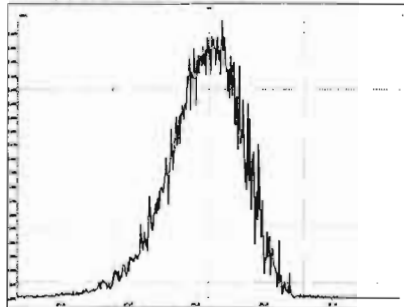
M 254.9856 R 11576



M 268.9824 R 12016

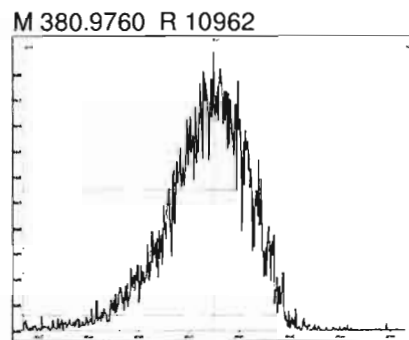
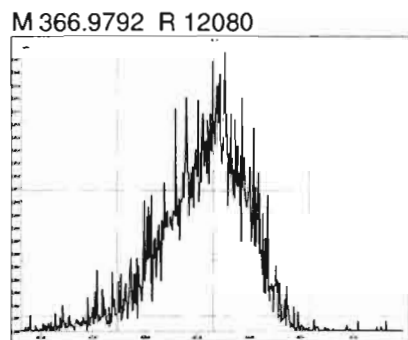
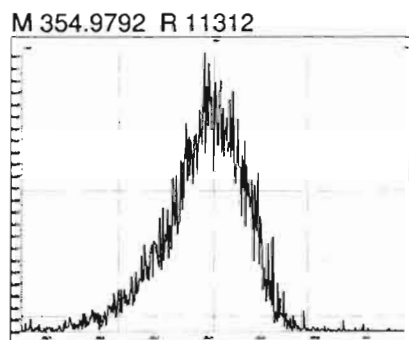
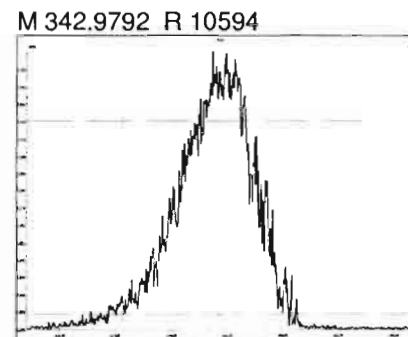
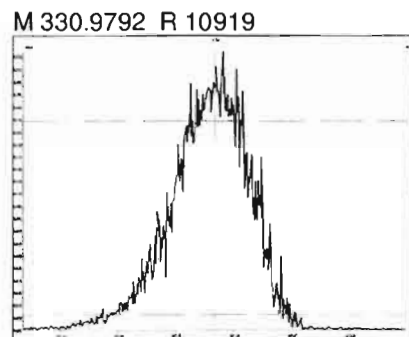
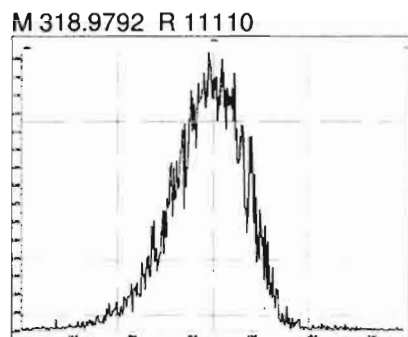
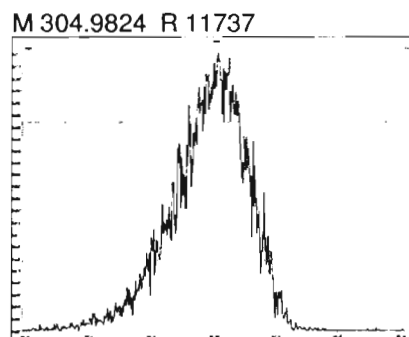
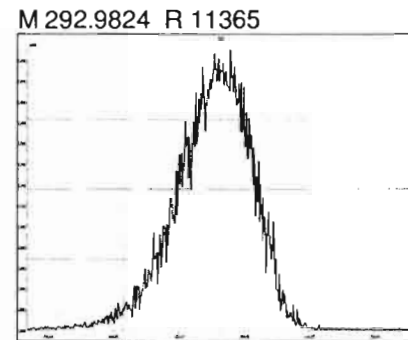
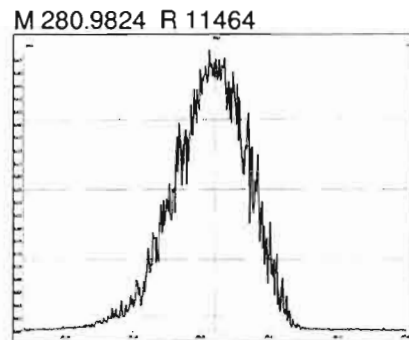
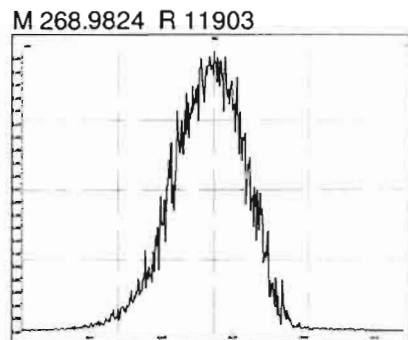
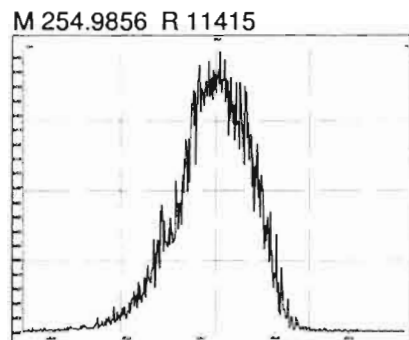


M 280.9824 R 11523



File: Experiment: pcb\_zb1.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

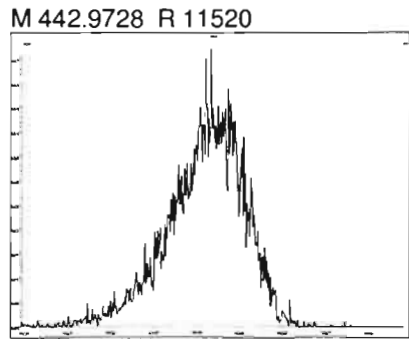
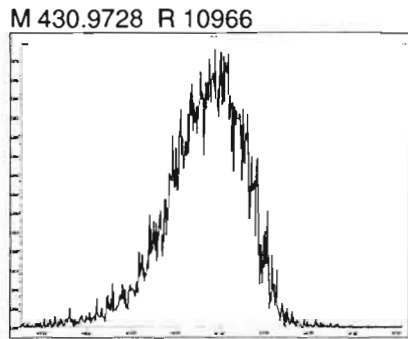
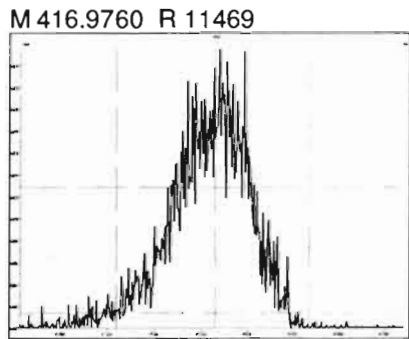
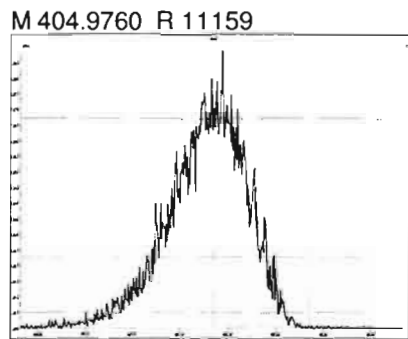
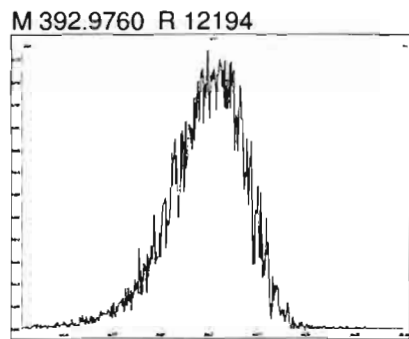
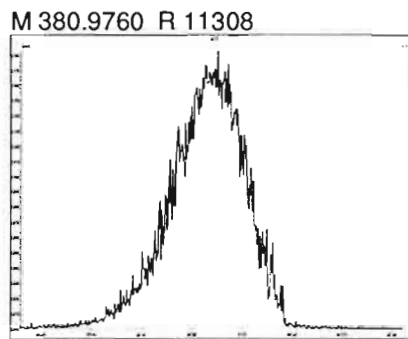
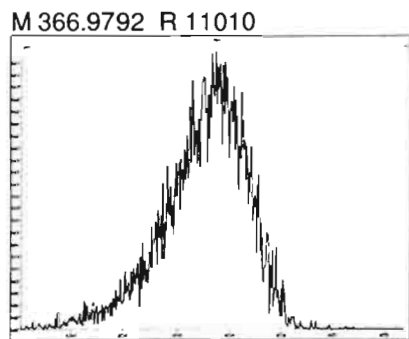
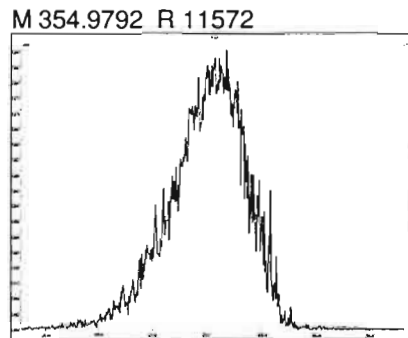
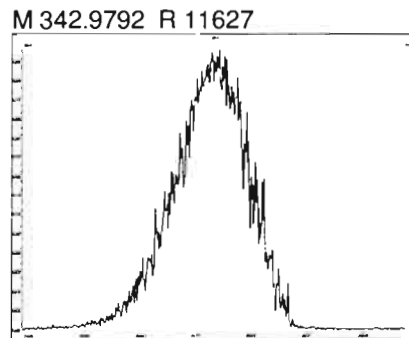
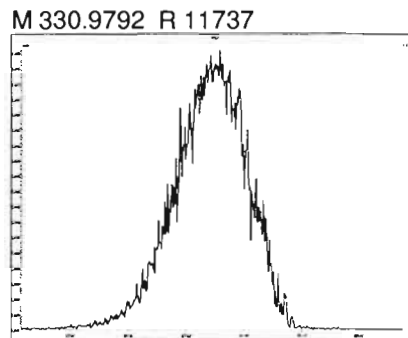
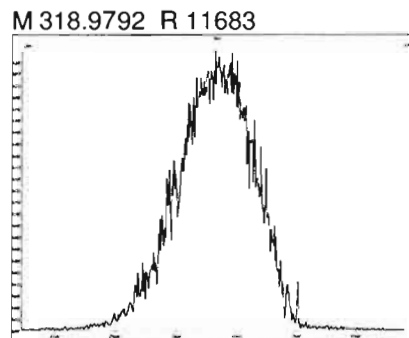
Printed: Monday, October 26, 2020 09:31:30 Pacific Daylight Time





File: Experiment: pcb\_zb1.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

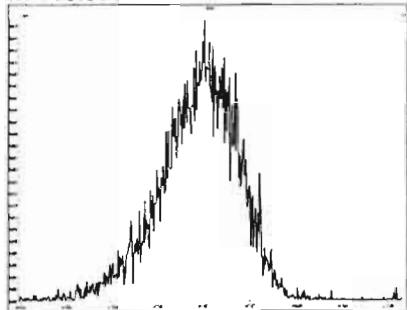
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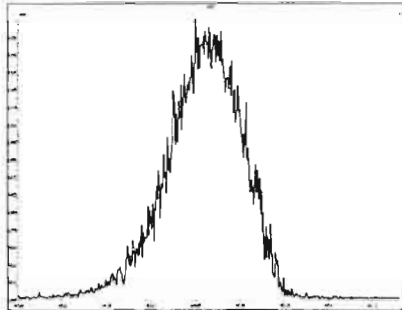
File: Experiment: pcb\_zb1.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, October 26, 2020 09:33:09 Pacific Daylight Time

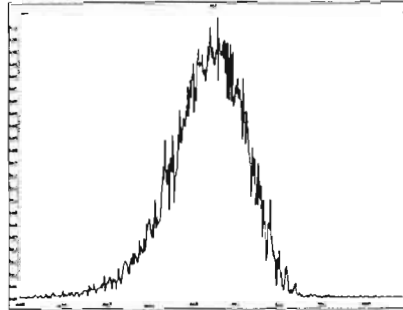
M 416.9760 R 11058



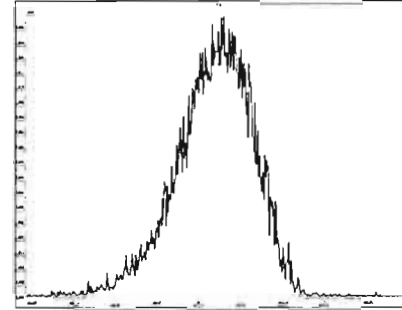
M 430.9728 R 11210



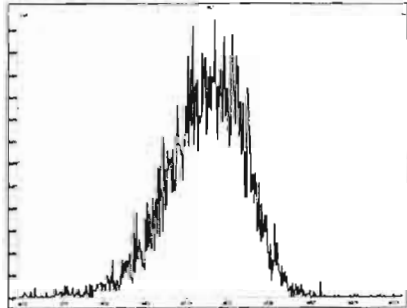
M 442.9728 R 12018



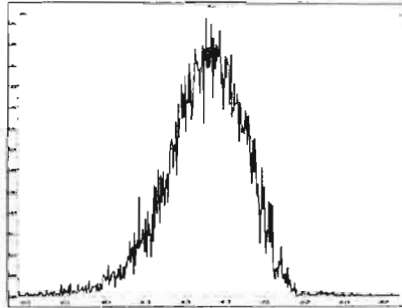
M 454.9728 R 10685



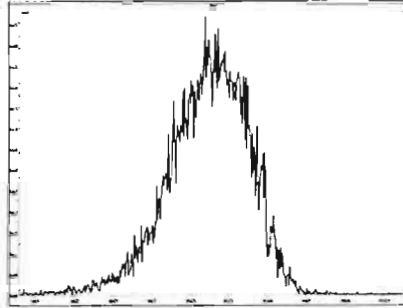
M 466.9728 R 11793



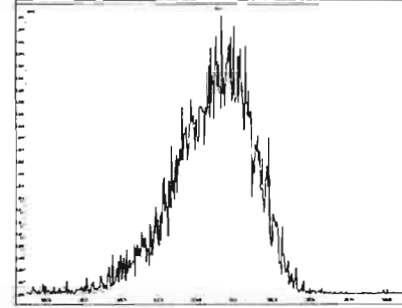
M 480.9696 R 11211



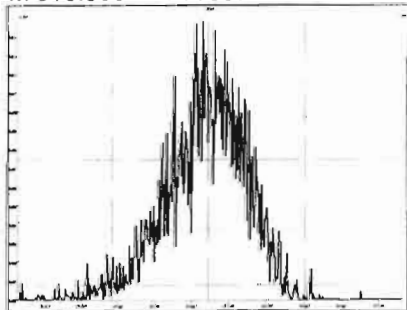
M 492.9696 R 10593



M 504.9696 R 10964



M 516.9697 R 11687



Dataset: Untitled

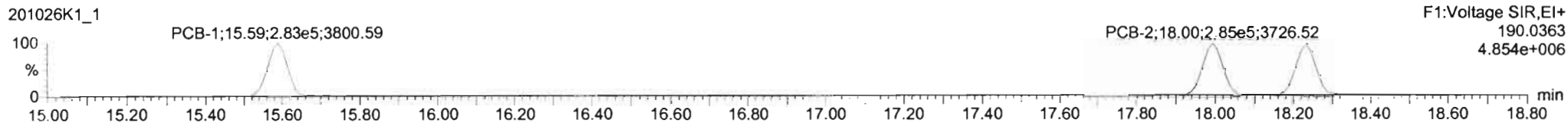
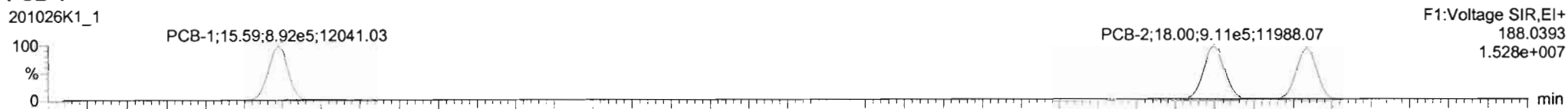
Last Altered: Monday, October 26, 2020 11:13:09 Pacific Daylight Time

Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

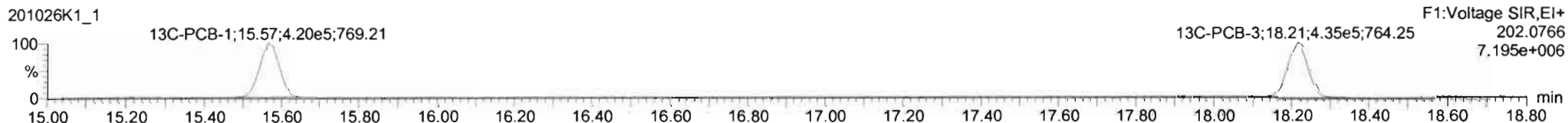
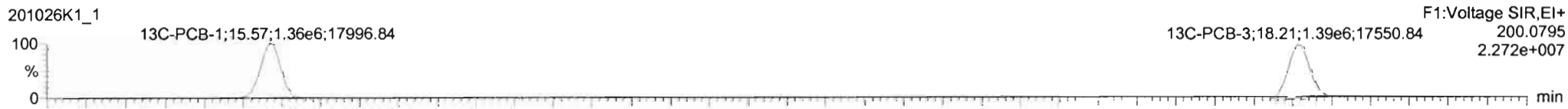
Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

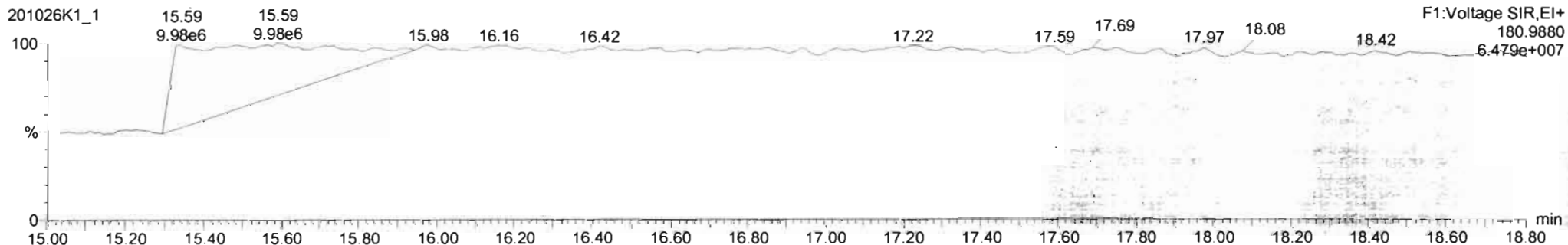
**PCB-1**



**13C-PCB-1**



**PFK1**

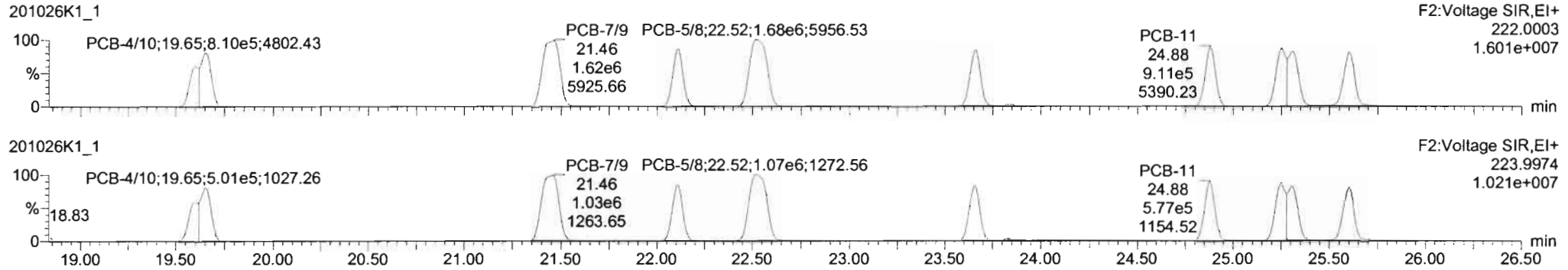


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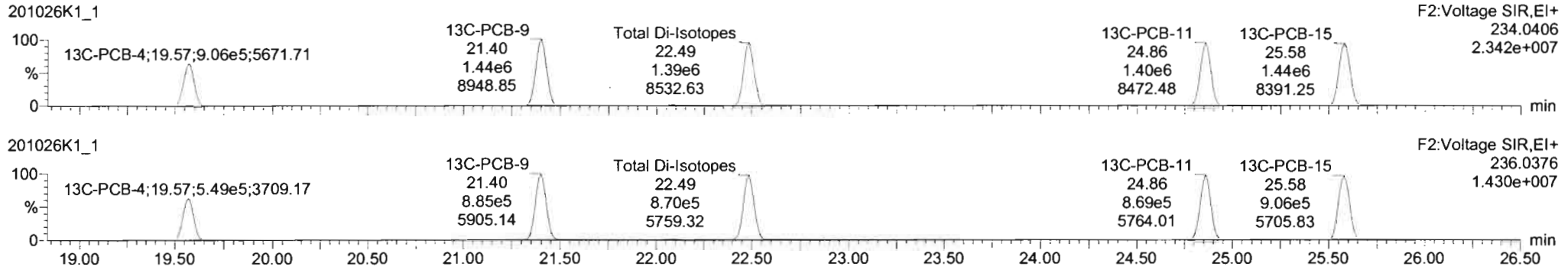
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Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

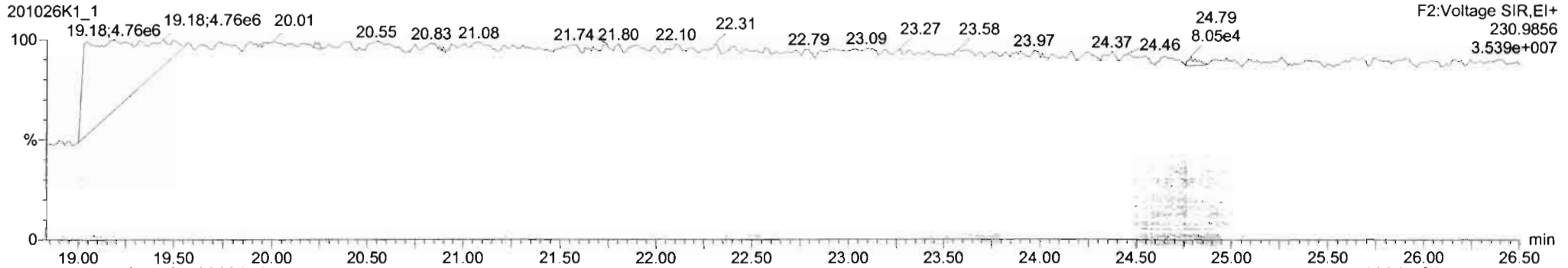
**PCB-4/10**



**13C-PCB-4**

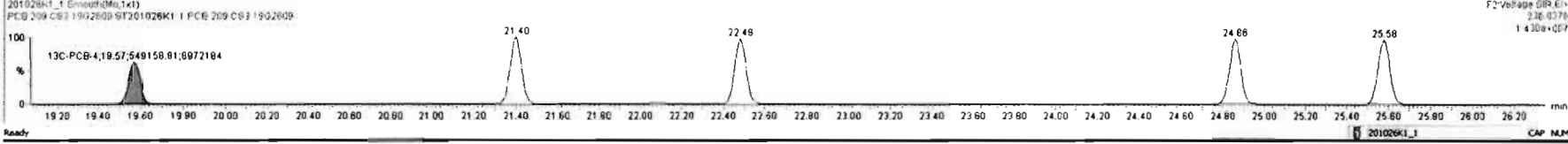
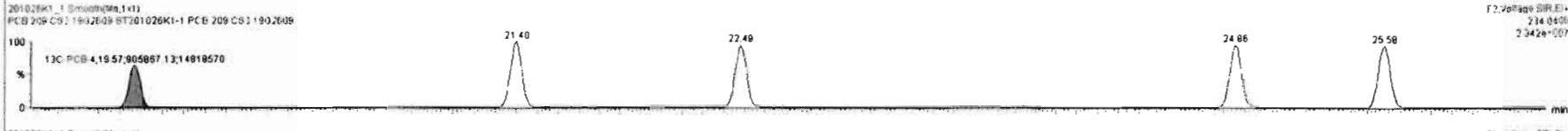
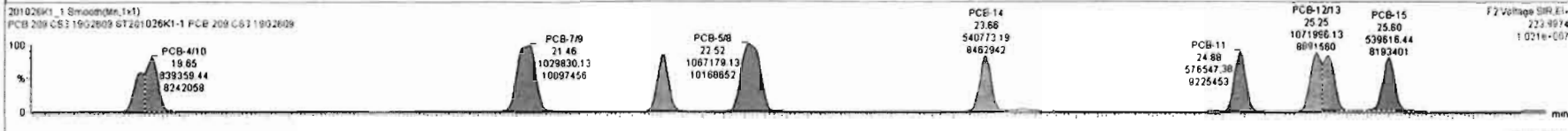
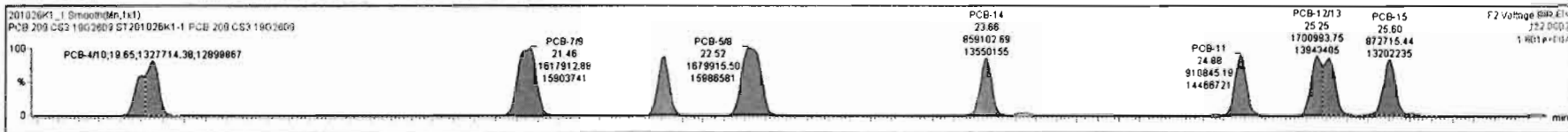


**PFK2a**



#	Name	Resp	RA	n/y	RRF	w/Acd	Pred RT	RT	Pred R	RR1	RR1 Int	Conc	%Rec	DL	EMPC
220	13C-PCB-79	1.37e6	0.79	NO	1.0689	1.000	37.86	37.86	1.030	1.030	NO	99.89	98.9	0.0663	
221	13C-PCB-178	4.58e5	0.47	NO	0.7665	1.000	45.95	45.95	0.968	0.968	NO	86.51	86.5	0.0918	
222	13C-PCB-79	1.37e6	0.79	NO	1.0671	1.000	37.85	37.86	0.968	0.968	NO	102.7	103	0.0931	
223	13C-PCB-178	4.58e5	0.47	NO	1.0508	1.000	45.94	45.95	0.923	0.923	NO	98.86	98.9	0.106	
224	Total Mono-PCBs				1.1665	1.000	0.00		0.000		NO	167.9		0.0447	167.9
225	Total Di-PCBs				1.0537	1.000	0.00		0.000		NO	713.0		0.470	713.0
226	2nd Function Tri-PCBs				1.0807	1.000	0.00		0.000		NO	436.8		0.165	436.8

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
4	PCB-4/10	19.85	19.85	1.320e6	8.394e5	1.560	1.58	NO	119.33	119.33
5	PCB-79	21.46	21.46	1.618e6	1.030e6	1.560	1.57	NO	118.44	118.44
6	PCB-6	22.11	22.11	8.584e5	5.415e5	1.560	1.59	NO	58.742	58.742
7	PCB-58	22.52	22.52	1.680e6	1.067e6	1.560	1.57	NO	118.88	118.88
8	PCB-14	23.68	23.68	8.591e5	5.408e5	1.560	1.59	NO	60.570	60.570
9	PCB-11	24.88	24.88	9.108e5	5.765e5	1.560	1.58	NO	58.123	58.123
10	PCB-12/13	25.31	25.25	1.701e6	1.072e6	1.560	1.59	NO	118.88	118.88



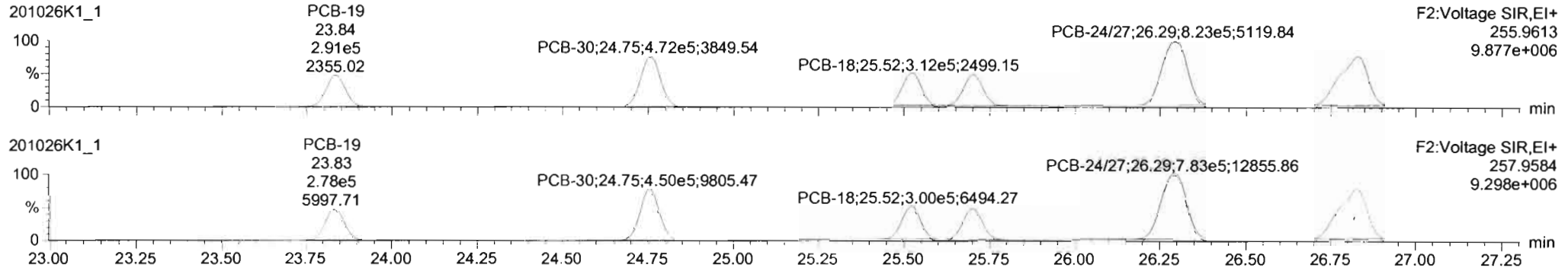
Dataset: Untitled

Last Altered: Monday, October 26, 2020 11:13:09 Pacific Daylight Time

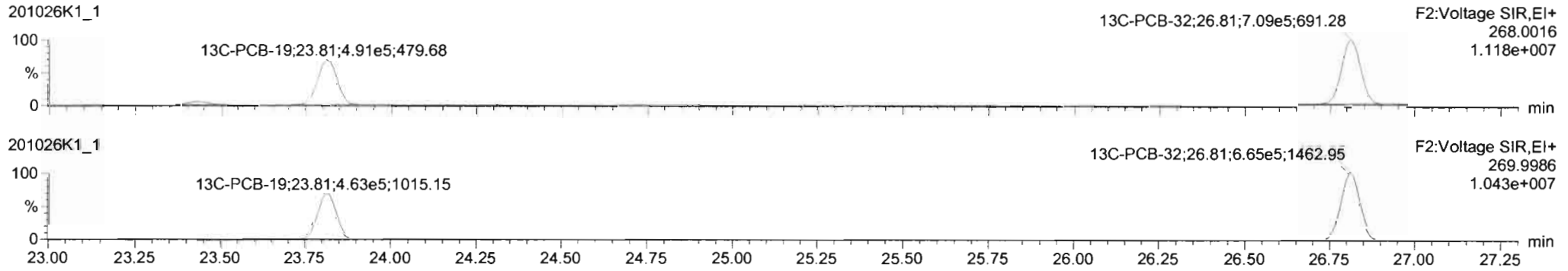
Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

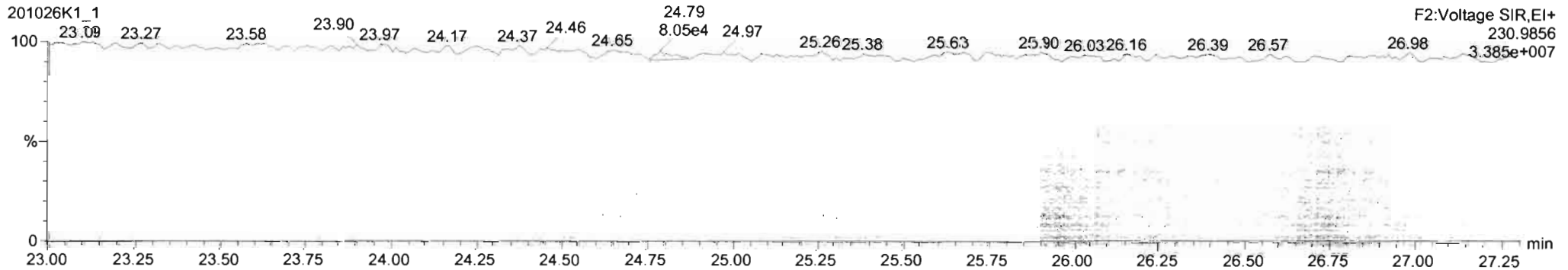
**PCB-19**



**13C-PCB-19**



**PFK2b**



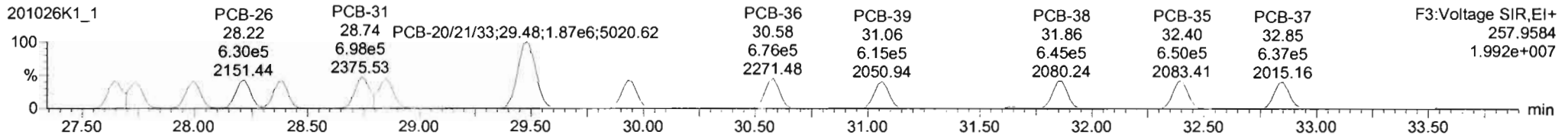
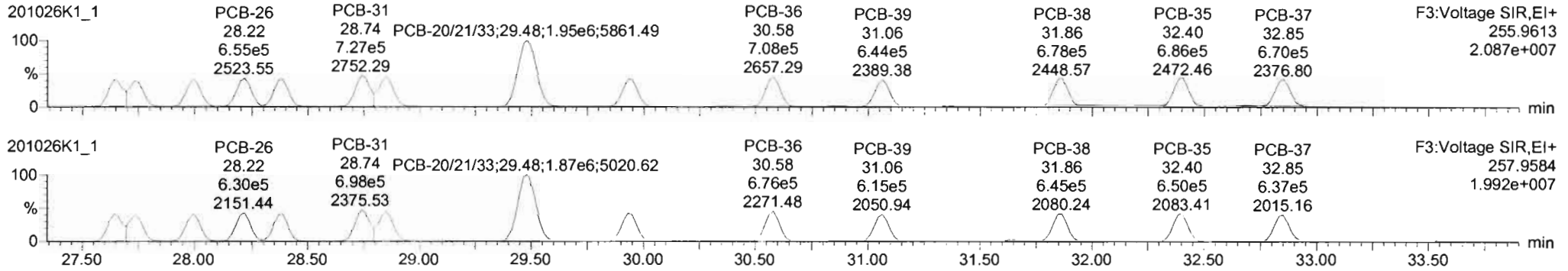
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Last Altered: Monday, October 26, 2020 11:13:09 Pacific Daylight Time

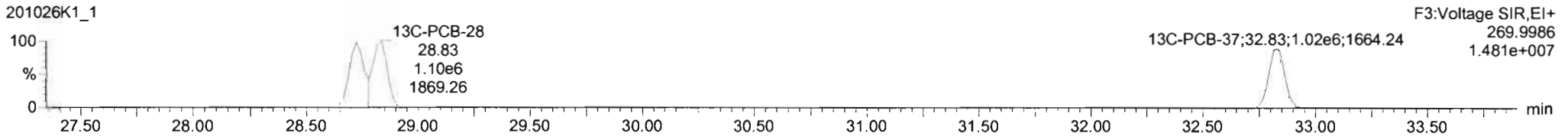
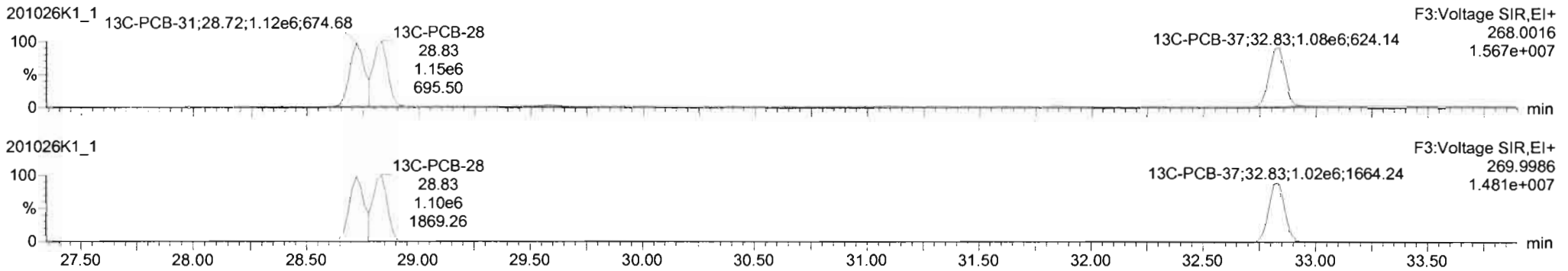
Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

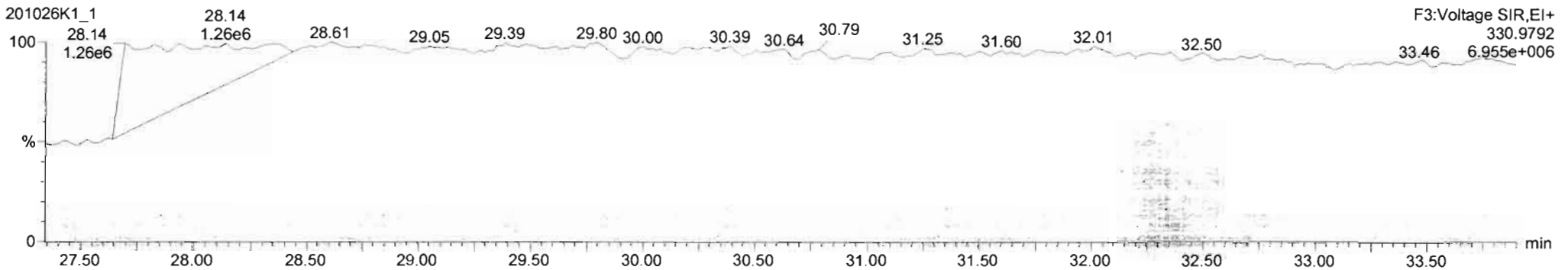
**PCB-34**



**13C-PCB-28**



**PFK3d**



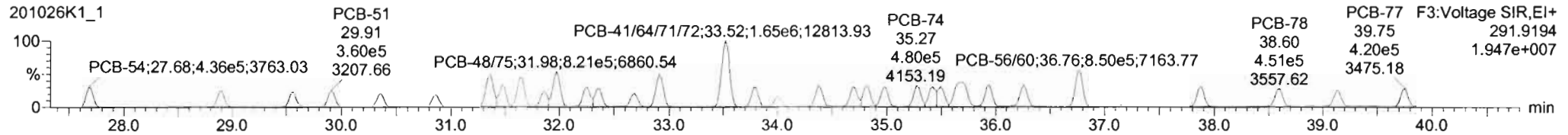
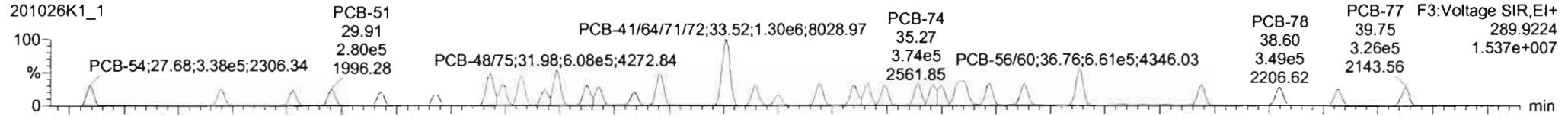
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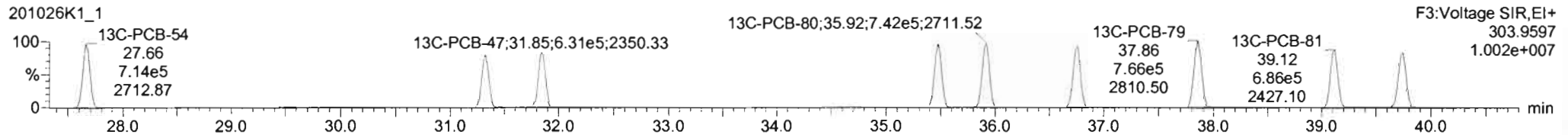
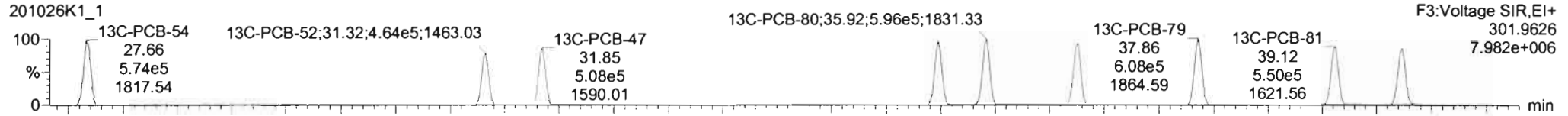
Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

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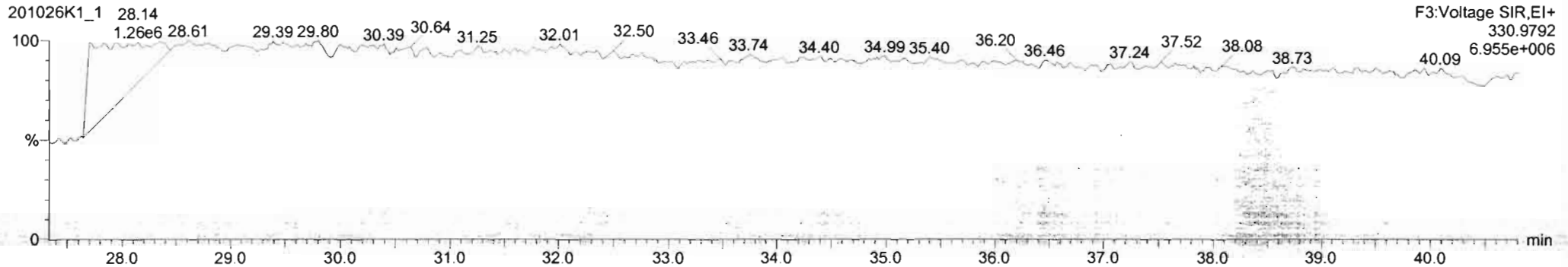
**PCB-54**



**13C-PCB-54**



**PFK3a**





Dataset: Untitled

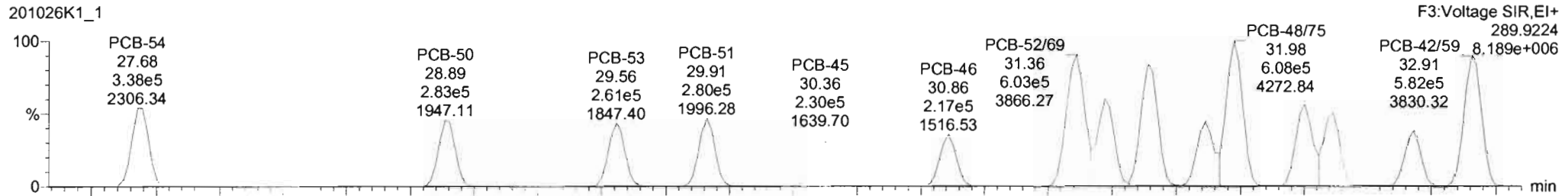
Last Altered: Monday, October 26, 2020 11:13:09 Pacific Daylight Time

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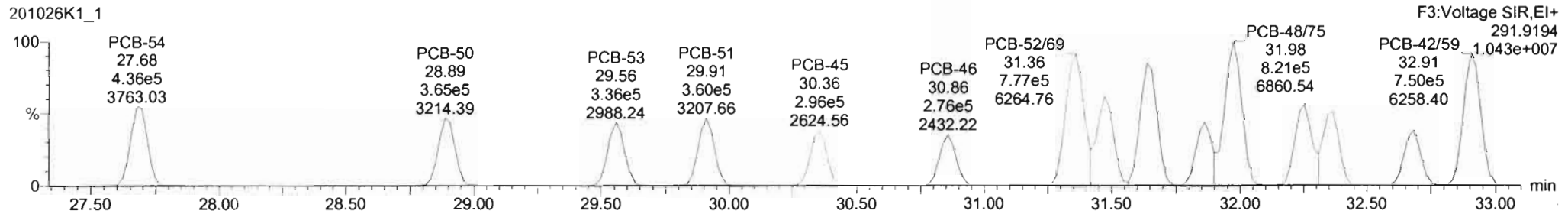
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**PCB-50**

201026K1\_1

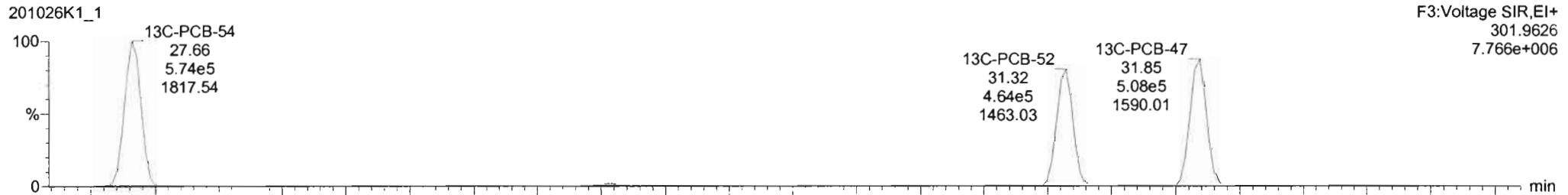


201026K1\_1

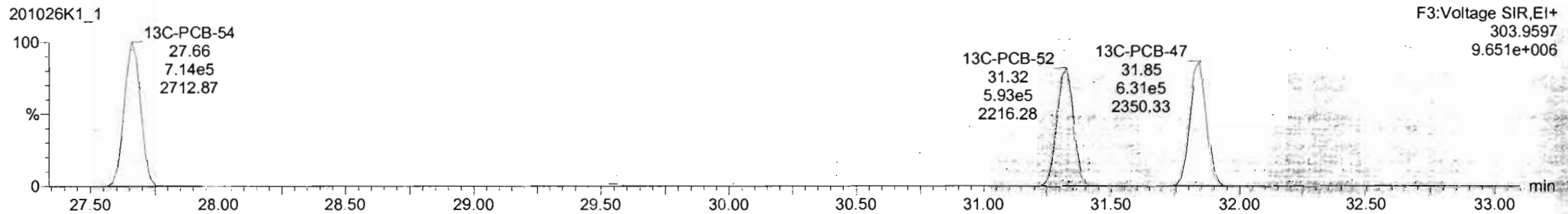


**13C-PCB-52**

201026K1\_1



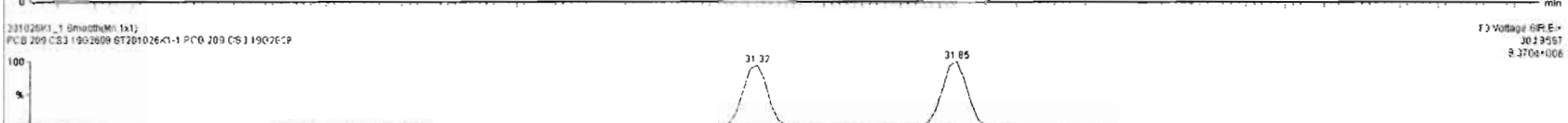
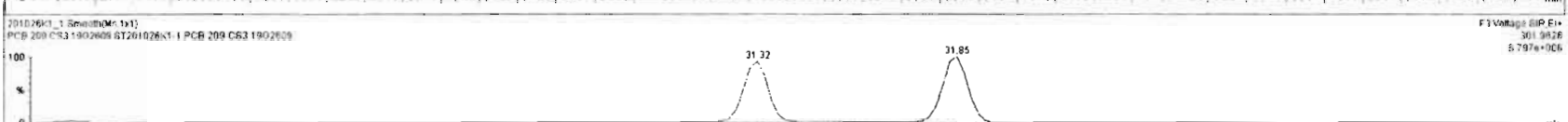
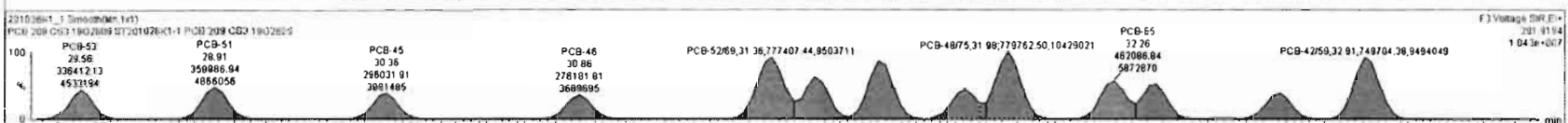
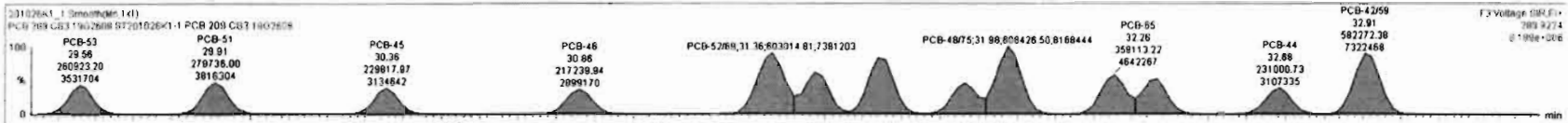
201026K1\_1



201026K1-1-1T201026K1-1-PCB 209 C83 1902609-PCB 209 C83 1902609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R	RRT	RRT Fall	Conc.	%Iac	DL	EMPC
227	227 3rd Function Tri-PCBs				0.9828	1.000	0.00		0.000		NO	965.4		0.739	965.4
228	228 Total Tetra-PCBs				1.0778	1.000	0.00		0.000		NO	2261		1.33	2280
229	229 3rd Function Penta-PCBs				1.3157	1.000	0.00		0.000		NO	2188		1.22	2168
230	230 4th Function Penta-PCBs				1.0735	1.000	0.00		0.000		NO	295.7		0.162	295.7
231	231 3rd Function Hexa-PCBs				0.9595	1.000	0.00		0.000		NO	731.2		0.547	731.2
232	232 4th Function Hexa-PCBs				1.0316	1.000	0.00		0.000		NO	1524		1.07	1524
233	233 Total Hepta-PCBs				1.3551	1.000	0.00		0.000		NO	1292		2.00	1292

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	32 PCB-54	27.68	27.68	3.380e5	4.359e5	0.770	0.78	NO	55.623	55.623
2	33 PCB-50	28.89	28.89	2.835e5	3.651e5	0.770	0.78	NO	57.232	57.232
3	34 PCB-53	29.58	29.58	2.609e5	3.364e5	0.770	0.78	NO	56.695	56.695
4	35 PCB-51	29.92	29.91	2.797e5	3.600e5	0.770	0.78	NO	58.805	58.805
5	36 PCB-45	30.36	30.36	2.298e5	2.960e5	0.770	0.78	NO	57.942	57.942
6	37 PCB-46	30.86	30.86	2.172e5	2.752e5	0.770	0.78	NO	56.181	56.181
7	38 PCB-52/69	31.36	31.36	6.030e5	7.774e5	0.770	0.78	NO	111.93	111.93



Dataset: Untitled

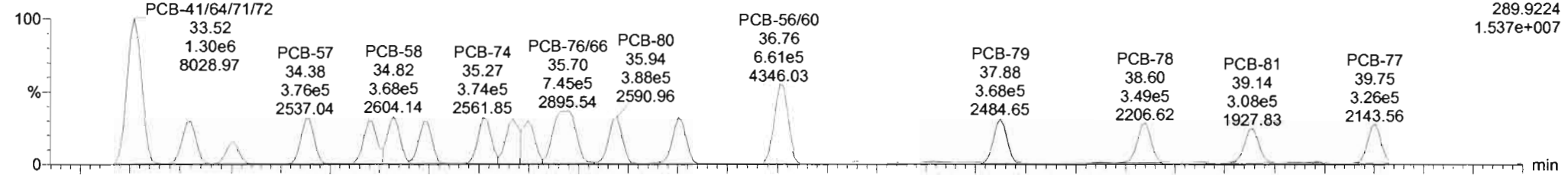
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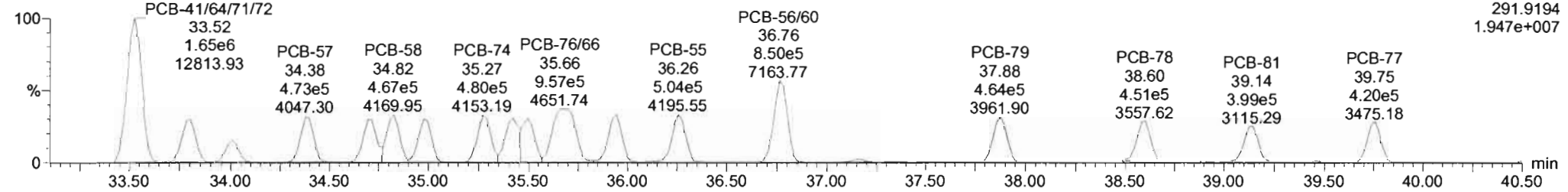
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**PCB-68**

201026K1\_1

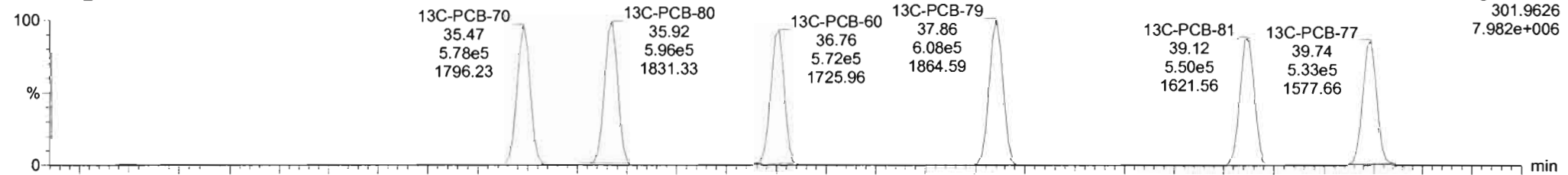


201026K1\_1

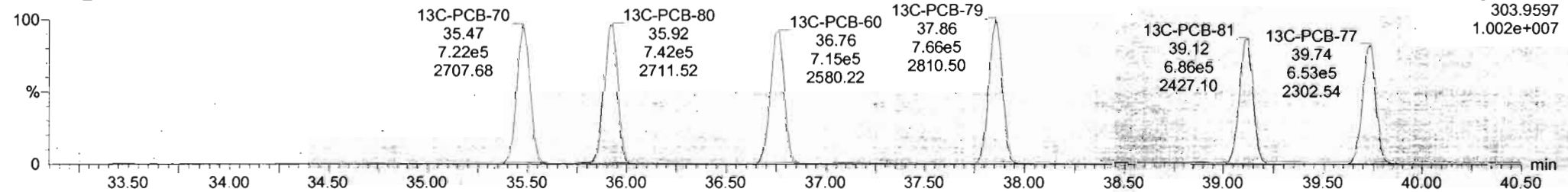


**13C-PCB-60**

201026K1\_1



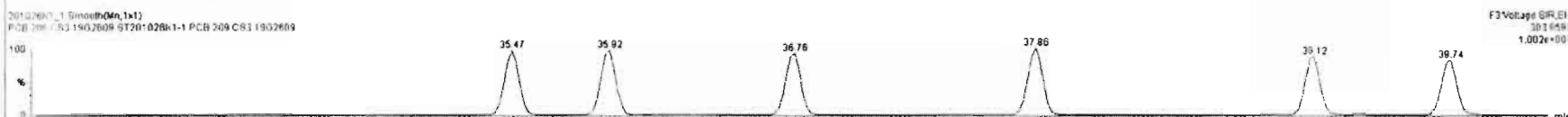
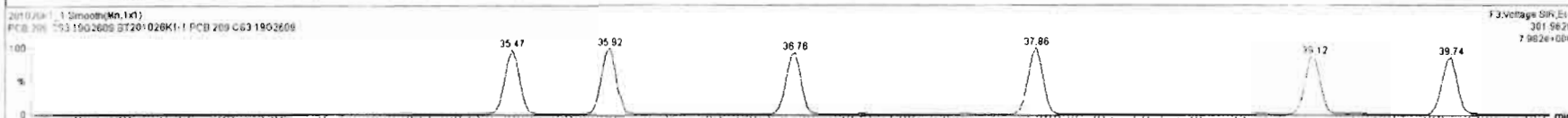
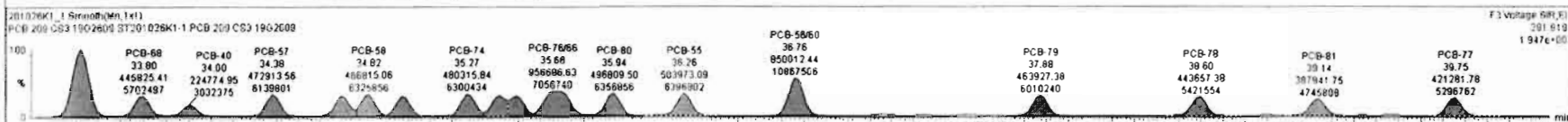
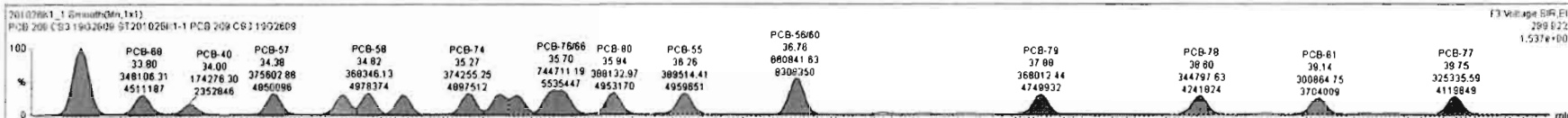
201026K1\_1



201026K1\_1 - ST201026K1-1 PCB 209 C83 1902609 - PCB 209 C83 1902609

#	Name	Resp	RA	n/y	RRF	wtVol	Pred R <sup>1</sup>	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				0.9828	1.000	0.00		0.000		NO	965.4		0.730	965.4
228	228 Total Tetra-PCBs				1.0776	1.000	0.00		0.000		NO	2356		1.33	2356
229	229 3rd Function Penta-PCBs				1.3157	1.000	0.00		0.000		NO	2166		1.22	2166
230	230 4th Function Penta-PCBs				1.0735	1.000	0.00		0.000		NO	295.7		0.162	295.7
231	231 3rd Function Hexa-PCBs				0.9505	1.000	0.00		0.000		NO	731.2		0.547	731.2
232	232 4th Function Hexa-PCBs				1.0316	1.000	0.00		0.000		NO	1524		1.07	1524
233	233 Total Hepta-PCBs				1.3551	1.000	0.00		0.000		NO	1292		2.00	1292

#	Name	Pred RT	RT	m1 Resp	m2 Resp	S <sup>1</sup> Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1 PCB-54	27.68	27.68	3.360e5	4.356e5	0.770	0.78	NO	55.623	55.623
2	2 PCB-50	28.89	28.89	2.835e5	3.651e5	0.770	0.78	NO	57.232	57.232
3	3 PCB-53	29.56	29.56	2.609e5	3.364e5	0.770	0.78	NO	56.686	56.686
4	4 PCB-51	29.92	29.92	2.797e5	3.609e5	0.770	0.78	NO	56.805	56.805
5	5 PCB-45	30.36	30.36	2.288e5	2.960e5	0.770	0.78	NO	57.942	57.942
6	6 PCB-46	30.06	30.06	2.172e5	2.782e5	0.770	0.79	NO	56.181	56.181
7	7 PCB-52/69	31.36	31.36	6.030e5	7.774e5	0.770	0.78	NO	111.93	111.93



Dataset: Untitled

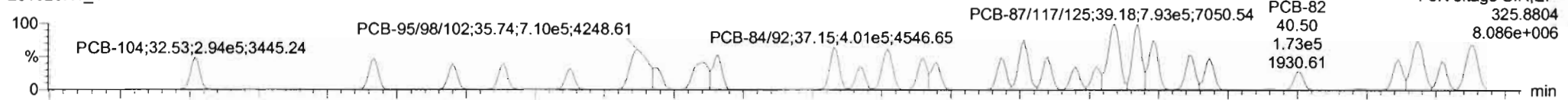
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Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

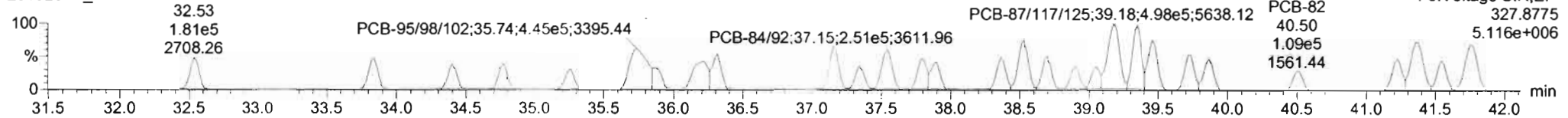
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**PCB-104**

201026K1\_1

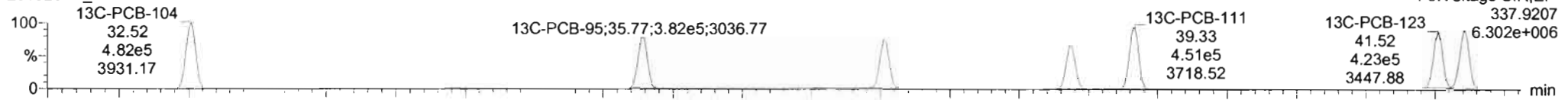


201026K1\_1

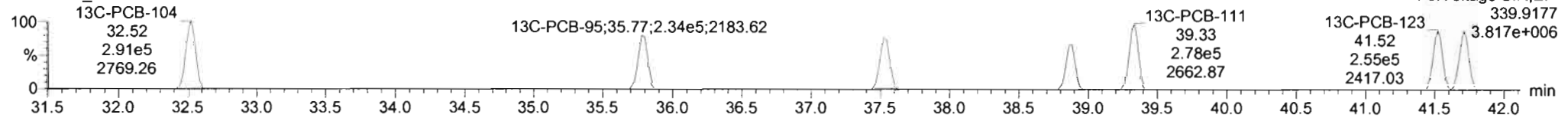


**13C-PCB-104**

201026K1\_1

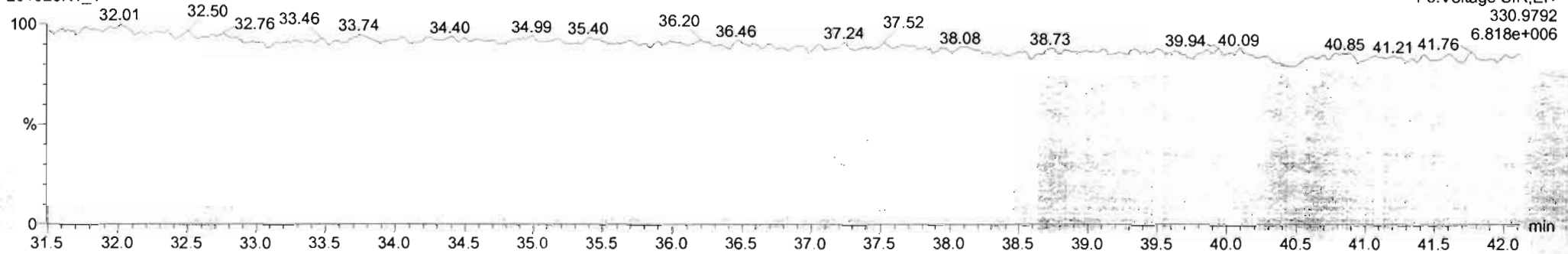


201026K1\_1



**PFK3b**

201026K1\_1



Dataset: Untitled

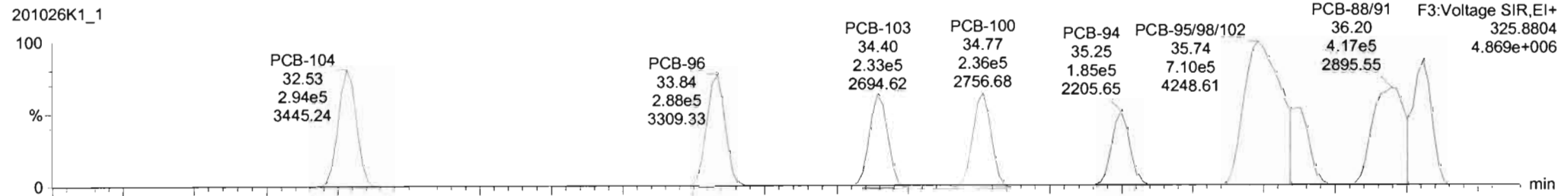
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Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

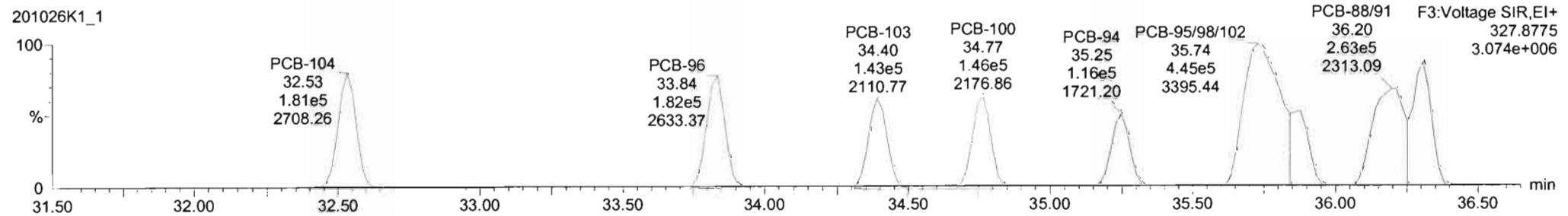
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**PCB-96**

201026K1\_1

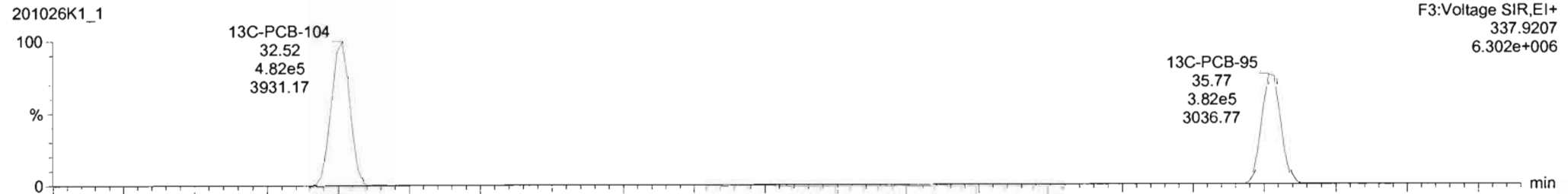


201026K1\_1

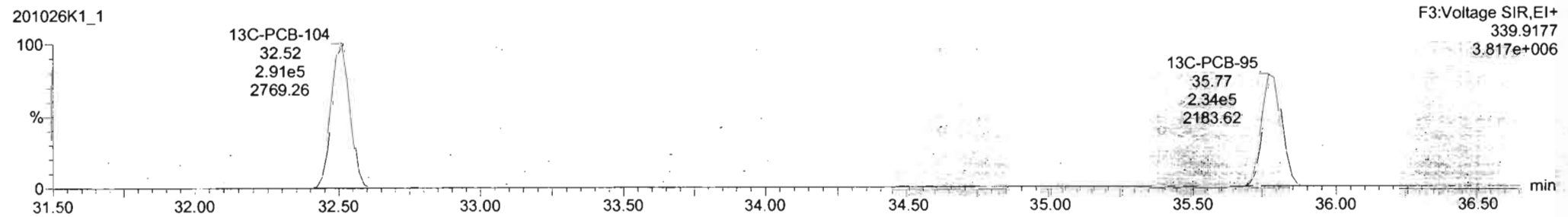


**13C-PCB-95**

201026K1\_1



201026K1\_1



Dataset: Untitled

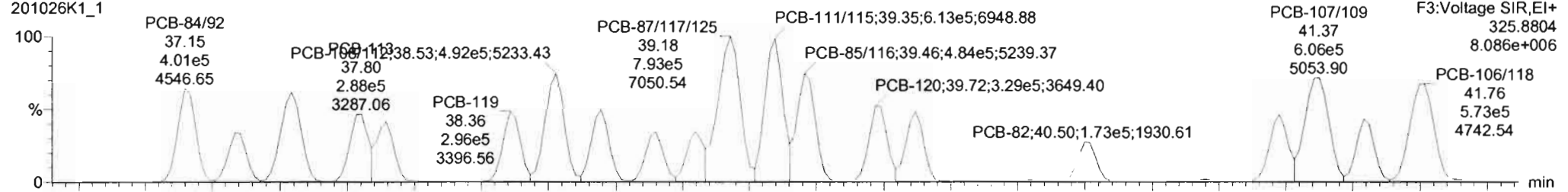
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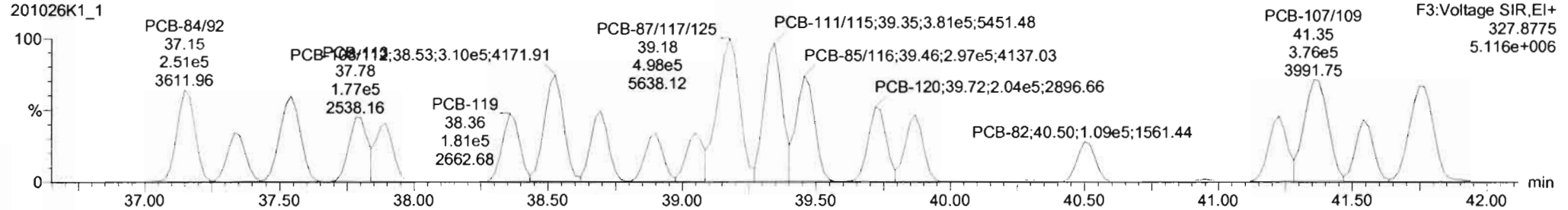
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**PCB-119**

201026K1\_1

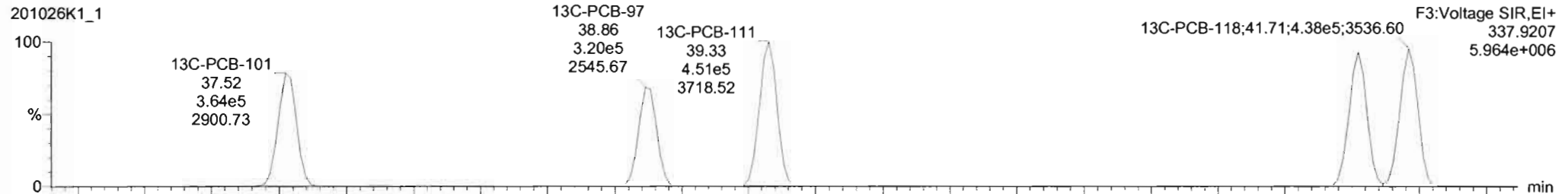


201026K1\_1

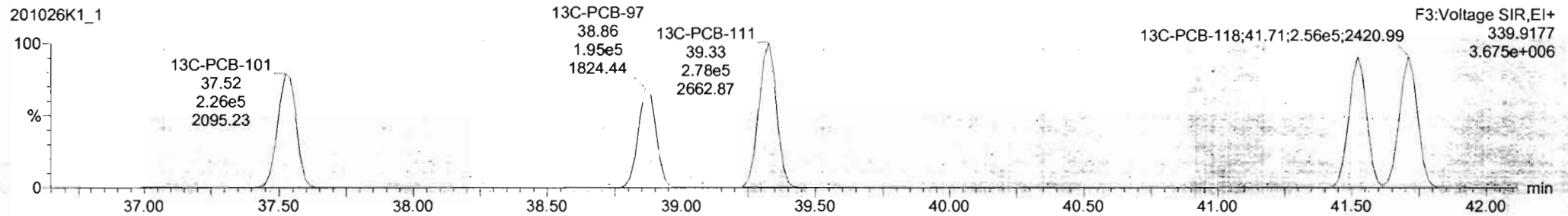


**13C-PCB-111**

201026K1\_1

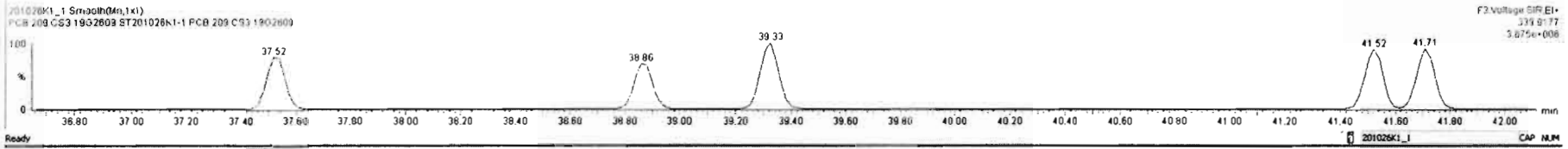
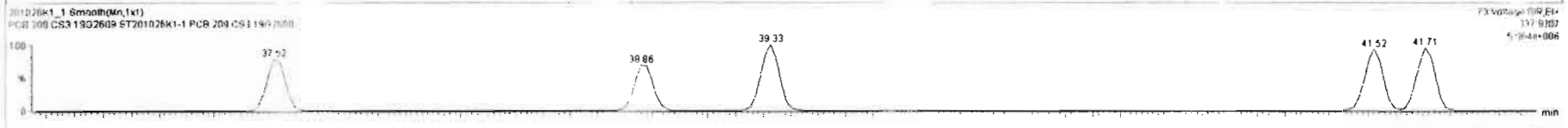
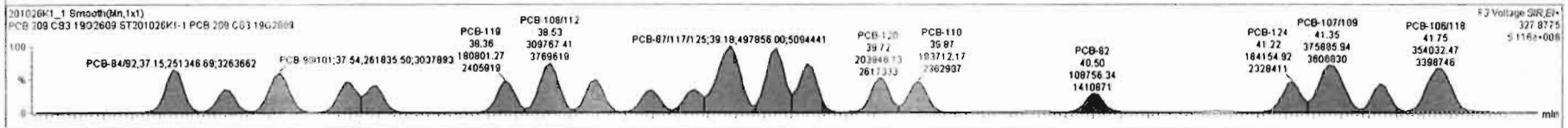
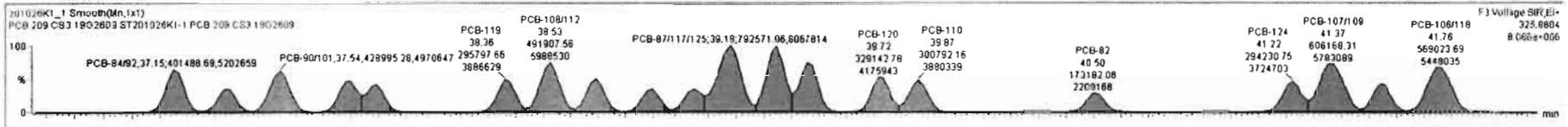


201026K1\_1



#	Name	Resp	RA	nly	RRT	ntVol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	2nd Function Tri-PCBs				0.9628	1.000	0.000		0.000		NO	965.4		0.739	965.4
228	Total Tetra-PCBs				1.0778	1.000	0.000		0.000		NO	2356		1.33	2356
229	3rd Function Penta-PCBs				1.3157	1.000	0.000		0.000		NO	2165		1.22	2165
230	4th Function Penta-PCBs				1.0735	1.000	0.000		0.000		NO	296.7		0.162	295.7
231	3rd Function Hexa-PCBs				0.9505	1.000	0.000		0.000		NO	731.2		0.547	731.2
232	4th Function Hexa-PCBs				1.0316	1.000	0.000		0.000		NO	1524		1.07	1524
233	Total Hepta-PCBs				1.3551	1.000	0.000		0.000		NO	1292		2.00	1292

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	64 PCB-104	32.54	32.53	2.944e5	1.814e5	1.560	1.62	NO	54.831	54.831
2	65 PCB-96	33.84	33.84	2.875e5	1.872e5	1.560	1.58	NO	52.644	52.644
3	66 PCB-103	34.40	34.40	2.326e5	1.434e5	1.560	1.62	NO	51.917	51.917
4	67 PCB-100	34.77	34.77	2.355e5	1.460e5	1.560	1.61	NO	51.730	51.730
5	68 PCB-94	35.25	35.25	1.853e5	1.156e5	1.560	1.60	NO	51.443	51.443
6	69 PCB-95/98/102	35.72	35.74	7.105e5	4.453e5	1.560	1.60	NO	155.67	155.67
7	70 PCB-93	35.87	35.88	1.896e5	1.153e5	1.560	1.64	NO	52.910	52.910





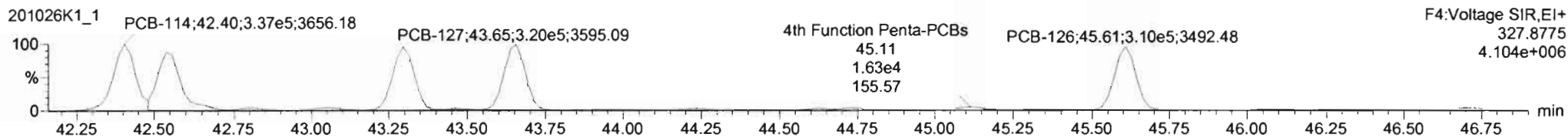
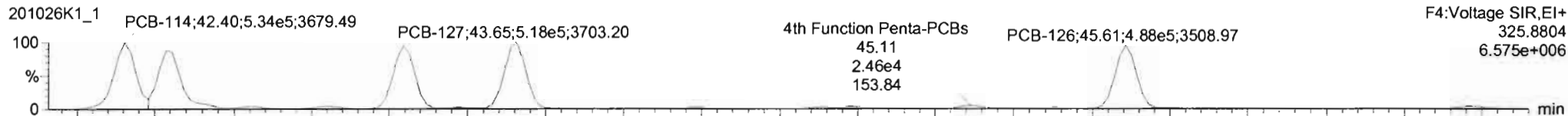
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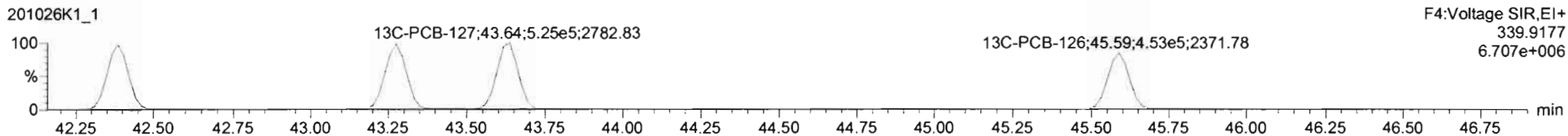
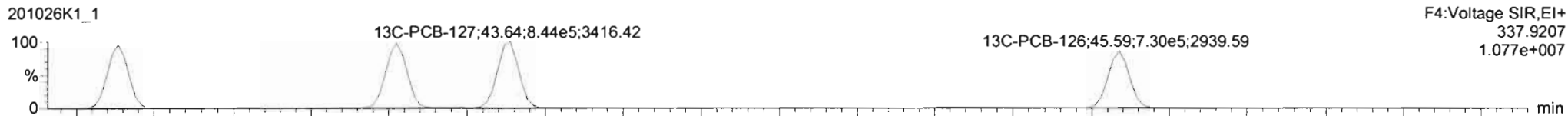
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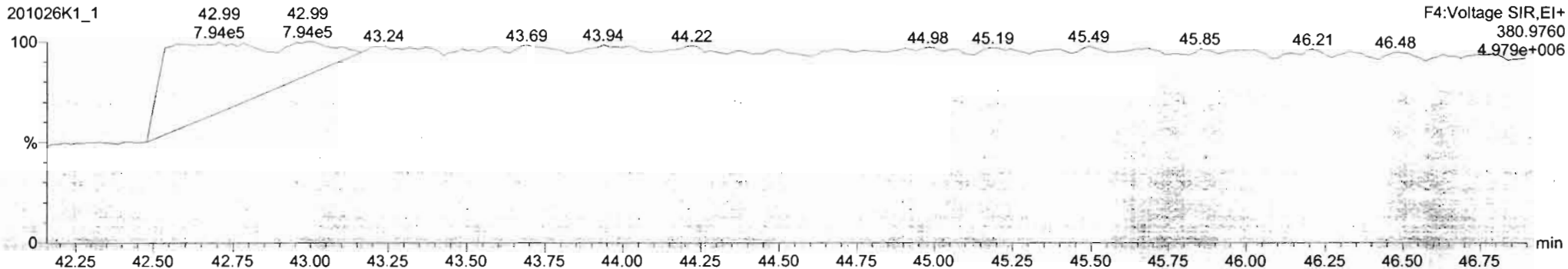
**PCB-114**



**13C-PCB-114**



**PFK4a**



201026K1\_1 - ST201026K1-1 PCB 209 CS3 1902609 - PCB 209 CS3 1902609

#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				0.9628	1.000	0.00		0.000		NO	965.4		0.739	965.4
228	228 Total Tetra-PCBs				1.0778	1.000	0.00		0.000		NO	2366		1.33	2366
229	229 3rd Function Penta-PCBs				1.3157	1.000	0.00		0.000		NO	2165		1.22	2165
230	230 4th Function Penta-PCBs				1.0735	1.000	0.00		0.000		NO	292.5		0.162	292.5
231	231 3rd Function Hexa-PCBs				0.9505	1.000	0.00		0.000		NO	731.2		0.547	731.2
232	232 4th Function Hexa-PCBs				1.0316	1.000	0.00		0.000		NO	1524		1.07	1524
233	233 Total Hepta-PCBs				1.3551	1.000	0.00		0.000		NO	1292		2.00	1292

#	Name	Pred RT	RT	m1 Resp	m2 Resp	I* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	93 PCB-114	42.41	42.40	5.318e5	3.355e5	1.560	1.58	NO	58.292	58.292
2	94 PCB-122	42.55	42.54	4.703e5	2.930e5	1.560	1.61	NO	61.993	61.993
3	95 PCB-105	43.29	43.29	4.872e5	3.091e5	1.550	1.58	NO	56.871	56.871
4	96 PCB-127	43.65	43.65	5.179e5	3.200e5	1.560	1.62	NO	57.792	57.792
5	97 PCB-126	45.61	45.61	4.892e5	3.098e5	1.560	1.58	NO	57.543	57.543



Dataset: Untitled

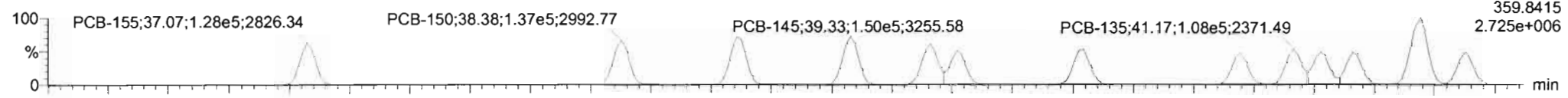
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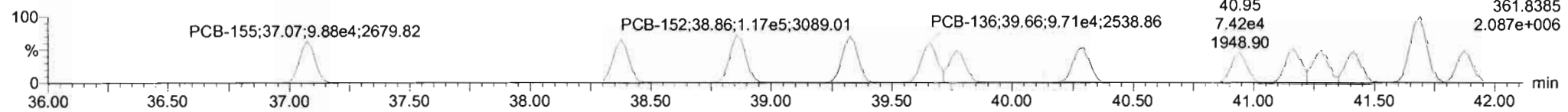
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**PCB-155**

201026K1\_1

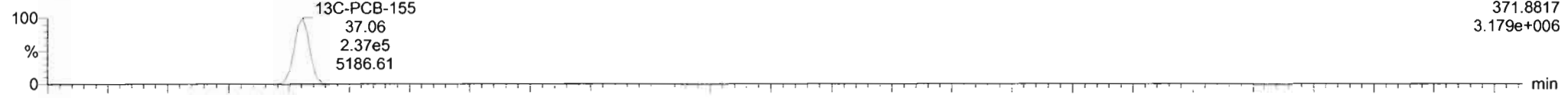


201026K1\_1

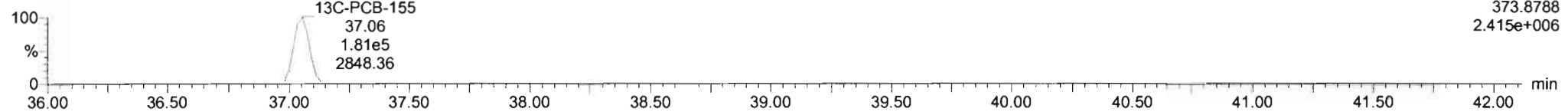


**13C-PCB-155**

201026K1\_1

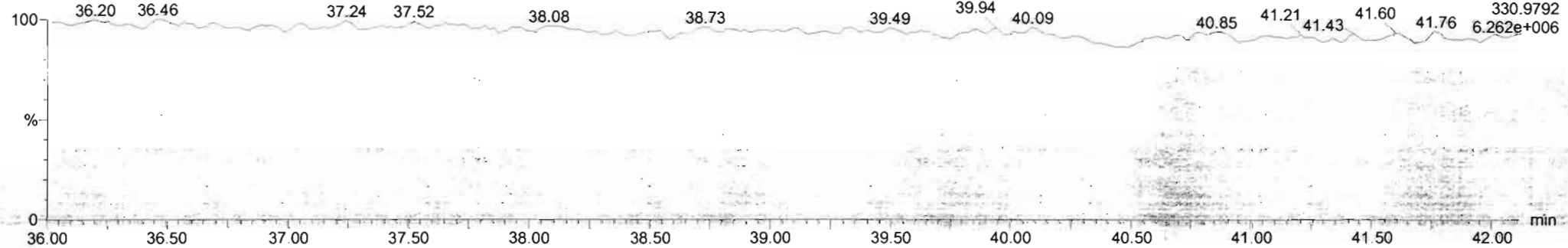


201026K1\_1



**PFK3c**

201026K1\_1



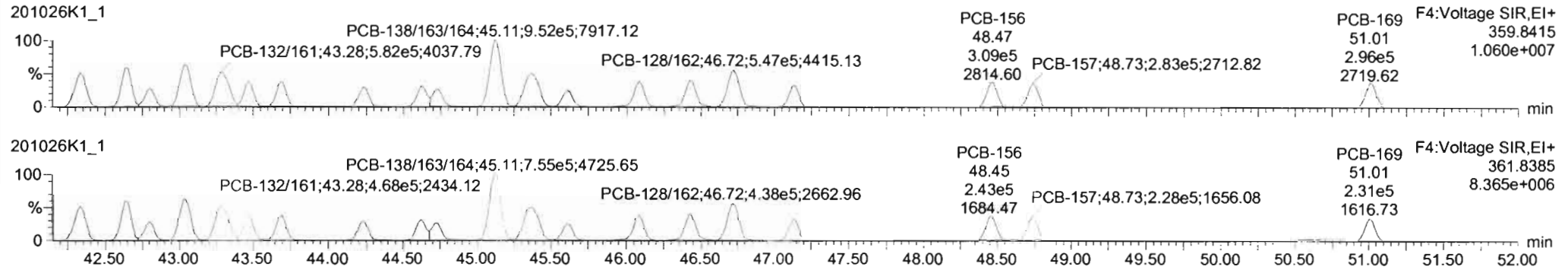
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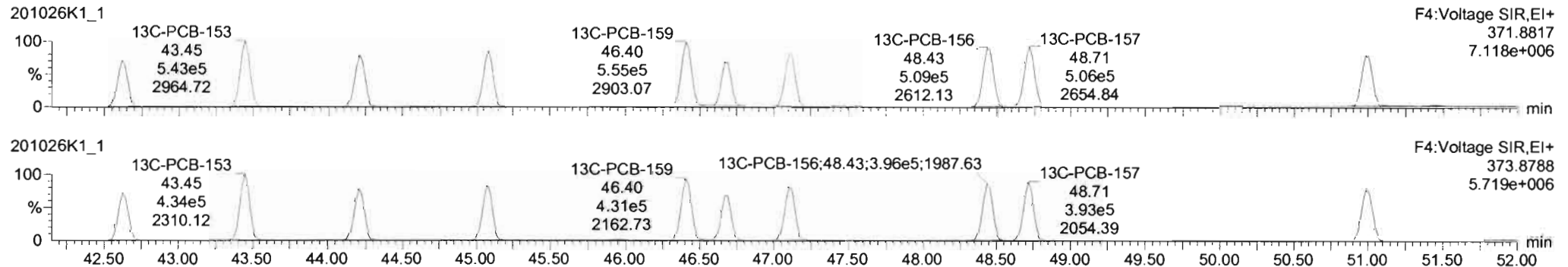
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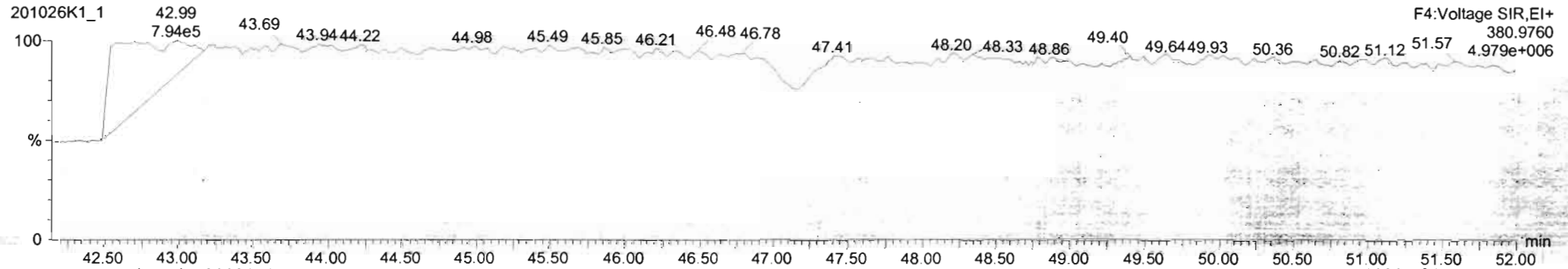
**PCB-134/143**



**13C-PCB-153**

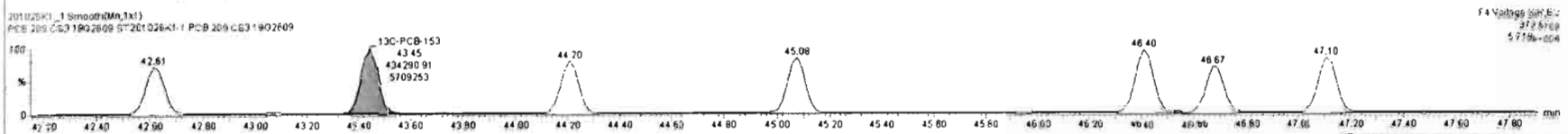
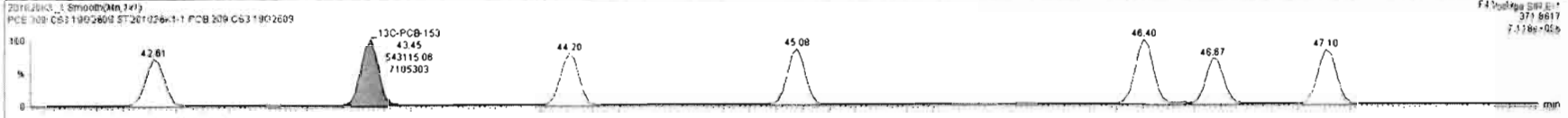
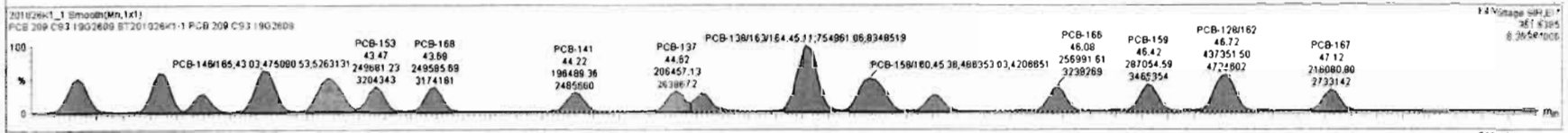
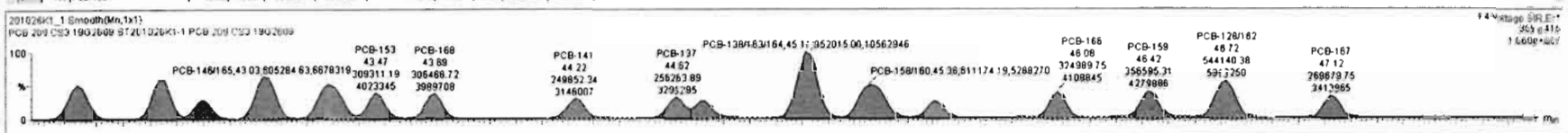


**PFK4b**



#	Name	Resp	RA	rvy	RRF	wtAvg	Pred.RT	RT	Pred.R	RRT	RRT1	Conc.	%Rec	DL	EMPC
227	227 3rd Function Tri-PCBs				0.9828	1.000	0.000	0.000	0.000			NO	965.4	0.739	965.4
228	228 Total Tetra-PCBs				1.0778	1.000	0.000	0.000	0.000			NO	2356	1.33	2356
229	229 3rd Function Penta-PCBs				1.3157	1.000	0.000	0.000	0.000			NO	2165	1.22	2165
230	230 4th Function Penta-PCBs				1.0735	1.000	0.000	0.000	0.000			NO	292.5	0.162	292.5
231	231 3rd Function Hexa-PCBs				0.9505	1.000	0.000	0.000	0.000			NO	791.2	0.547	791.2
232	232 4th Function Hexa-PCBs				1.0316	1.000	0.000	0.000	0.000			NO	1522	1.07	1522
233	233 Total Hepta-PCBs				1.3551	1.000	0.000	0.000	0.000			NO	1292	2.00	1292

#	Name	Pred.RT	RT	m1 Ratio	m2 Ratio	1* Ratio (Pred)	RA	rvy	EMPC	Conc.
1	111 PCB-134/143	42.33	42.33	4.731e5	2.777e5	1.240	1.25	NO	114.69	114.69
2	112 PCB-131/133	42.85	42.83	5.072e5	3.987e5	1.240	1.28	NO	112.44	112.44
3	113 PCB-142	42.81	42.80	2.261e5	1.810e5	1.240	1.25	NO	55.223	55.223
4	114 PCB-146/165	43.05	43.03	6.053e5	4.751e5	1.240	1.27	NO	108.73	108.73
5	115 PCB-132/161	43.29	43.28	5.985e5	4.683e5	1.240	1.28	NO	106.58	106.58
6	116 PCB-153	43.46	43.47	3.093e5	2.497e5	1.240	1.24	NO	53.421	53.421
7	117 PCB-168	43.69	43.69	3.065e5	2.496e5	1.240	1.23	NO	52.811	52.811



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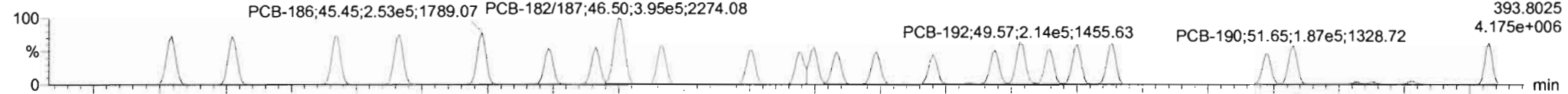
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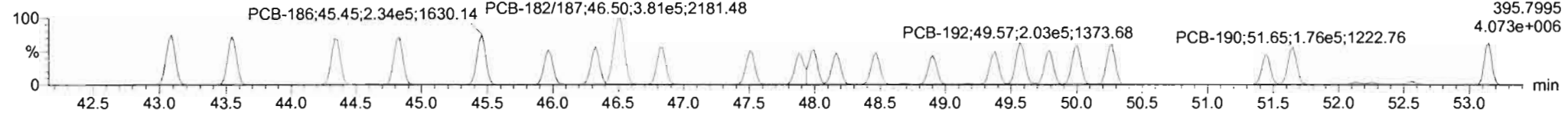
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**PCB-188**

201026K1\_1

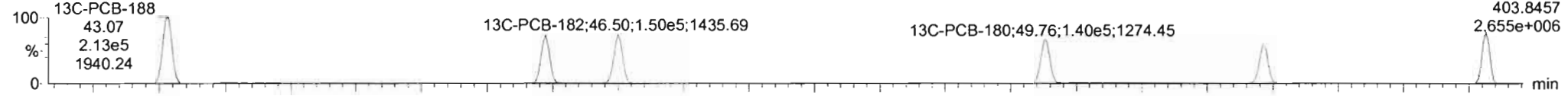


201026K1\_1

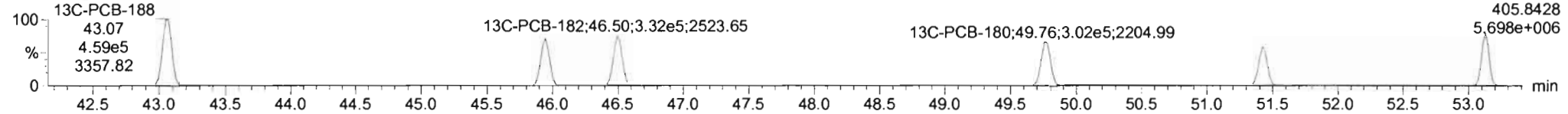


**13C-PCB-188**

201026K1\_1

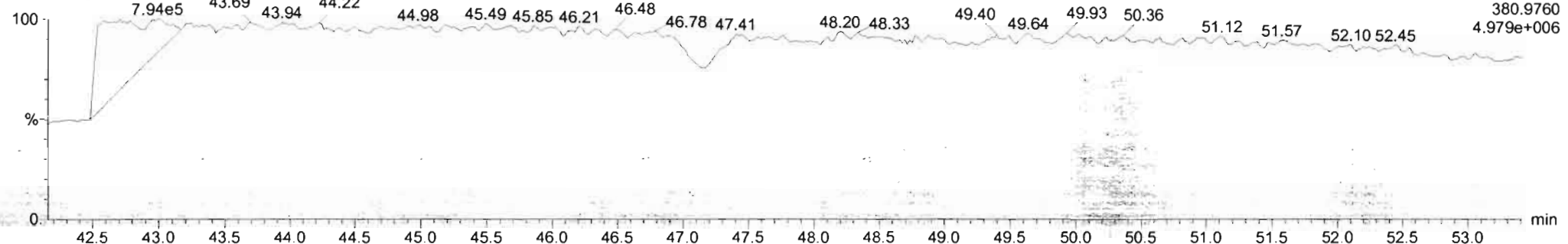


201026K1\_1



**PFK4c**

201026K1\_1



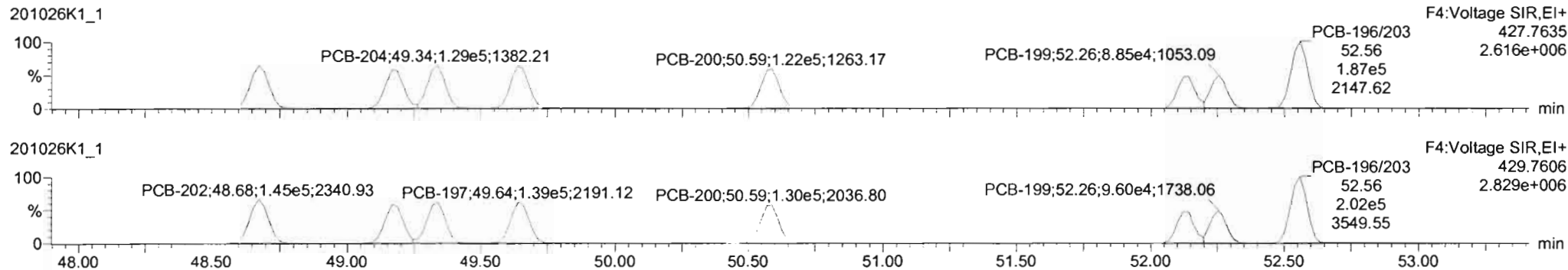
Dataset: Untitled

Last Altered: Monday, October 26, 2020 11:13:09 Pacific Daylight Time  
Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

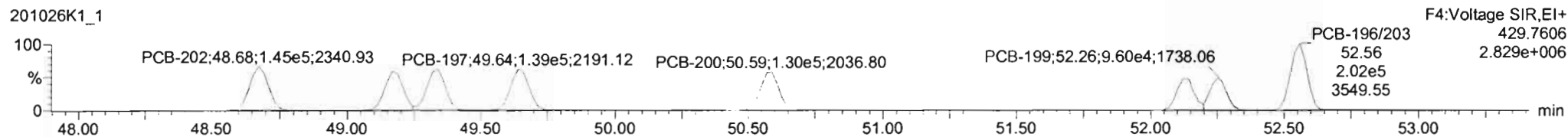
Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

**PCB-202**

201026K1\_1

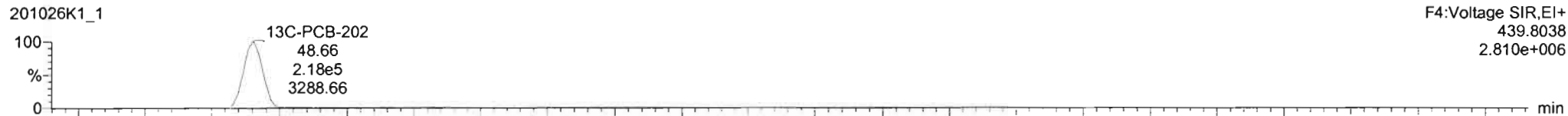


201026K1\_1

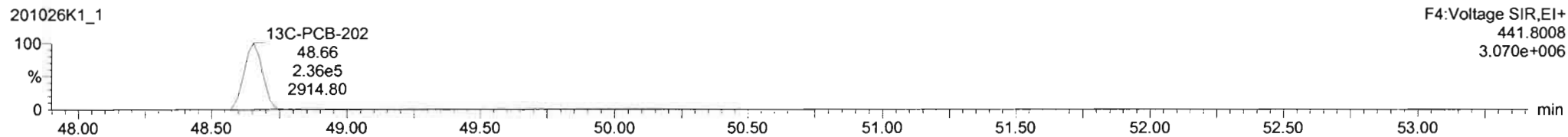


**13C-PCB-202**

201026K1\_1

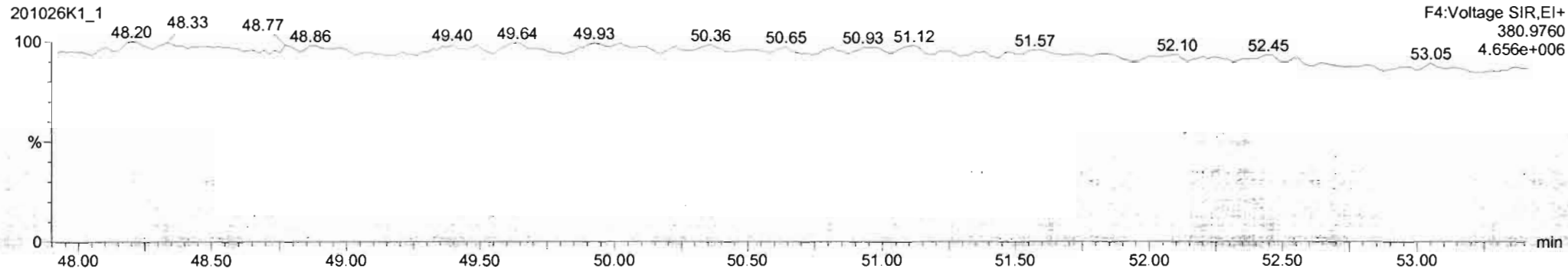


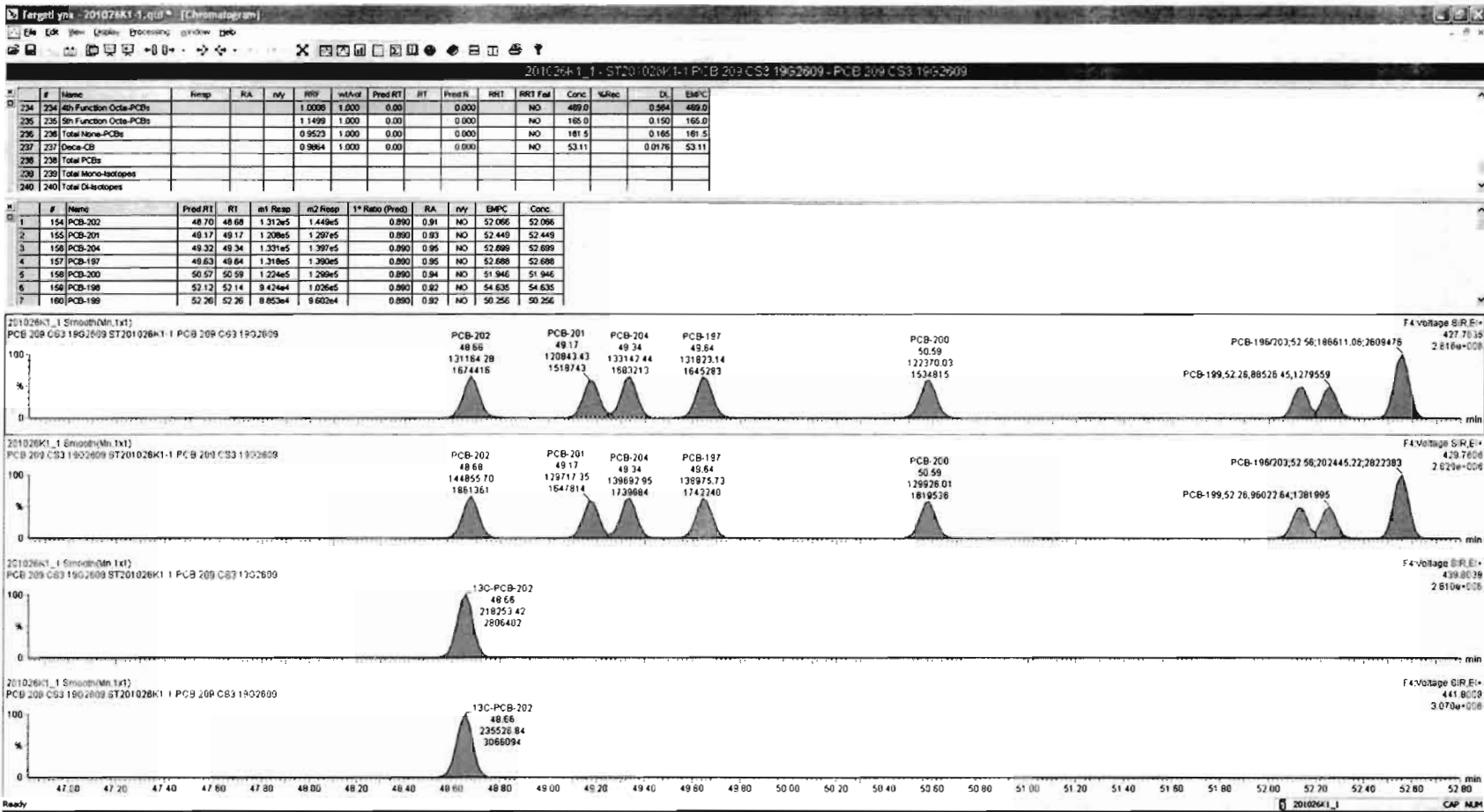
201026K1\_1



**PFK4d**

201026K1\_1







Dataset: Untitled

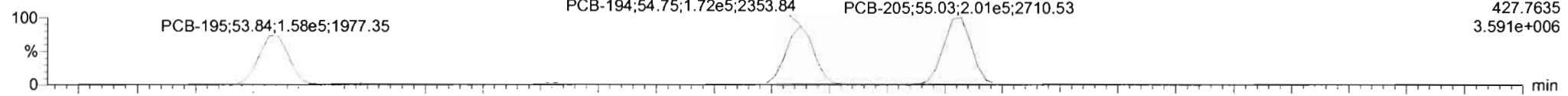
Last Altered: Monday, October 26, 2020 11:13:09 Pacific Daylight Time

Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

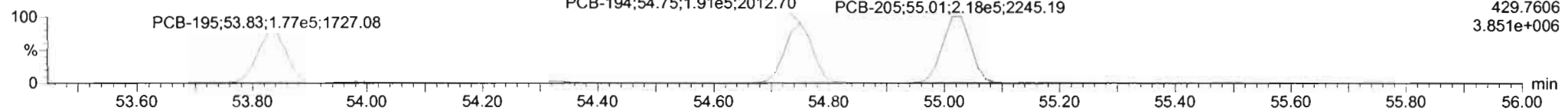
**PCB-195**

201026K1\_1



F5:Voltage SIR,EI+  
427.7635  
3.591e+006

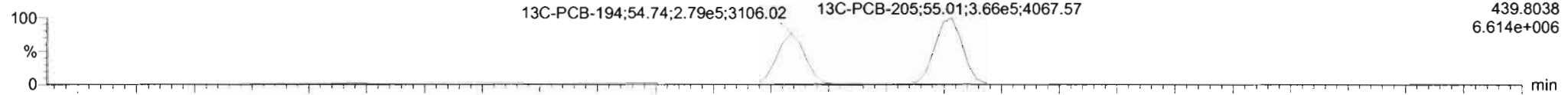
201026K1\_1



F5:Voltage SIR,EI+  
429.7606  
3.851e+006

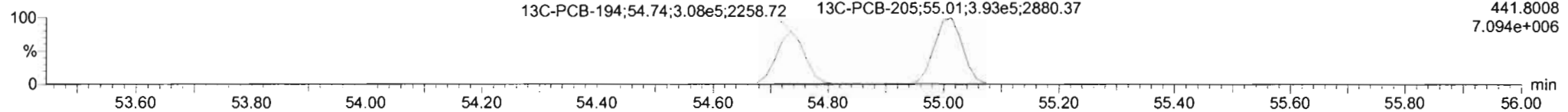
**13C-PCB-194**

201026K1\_1



F5:Voltage SIR,EI+  
439.8038  
6.614e+006

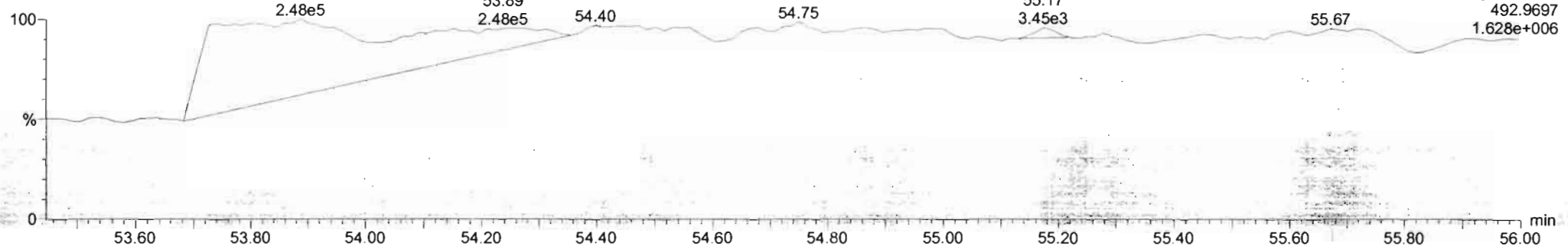
201026K1\_1



F5:Voltage SIR,EI+  
441.8008  
7.094e+006

**PFK5a**

201026K1\_1



F5:Voltage SIR,EI+  
492.9697  
1.628e+006

Dataset: Untitled

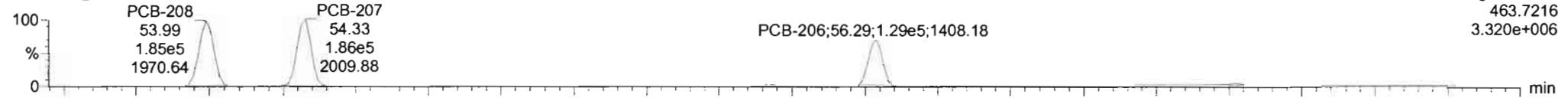
Last Altered: Monday, October 26, 2020 11:13:09 Pacific Daylight Time

Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

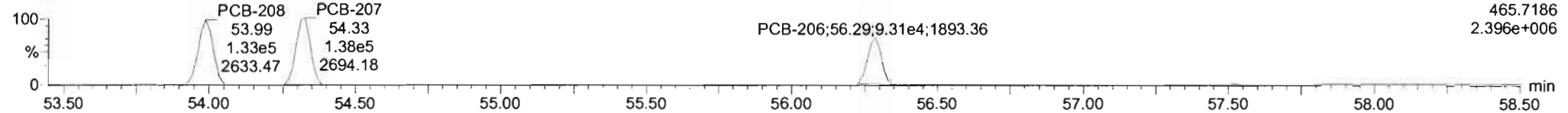
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**PCB-208**

201026K1\_1

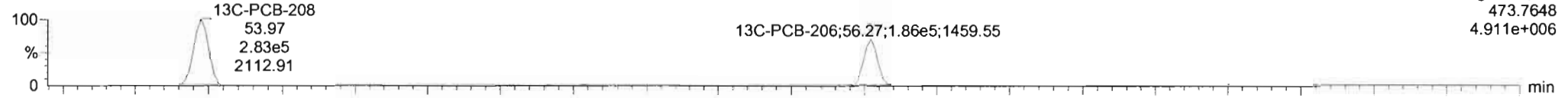


201026K1\_1

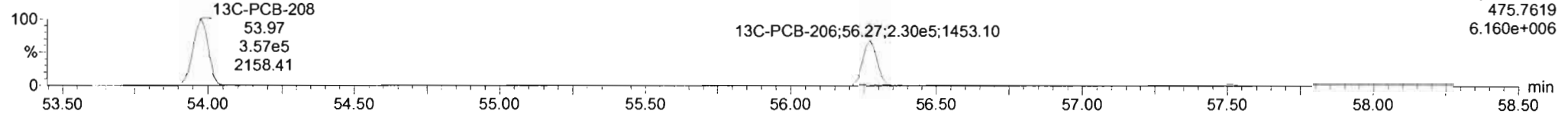


**13C-PCB-208**

201026K1\_1

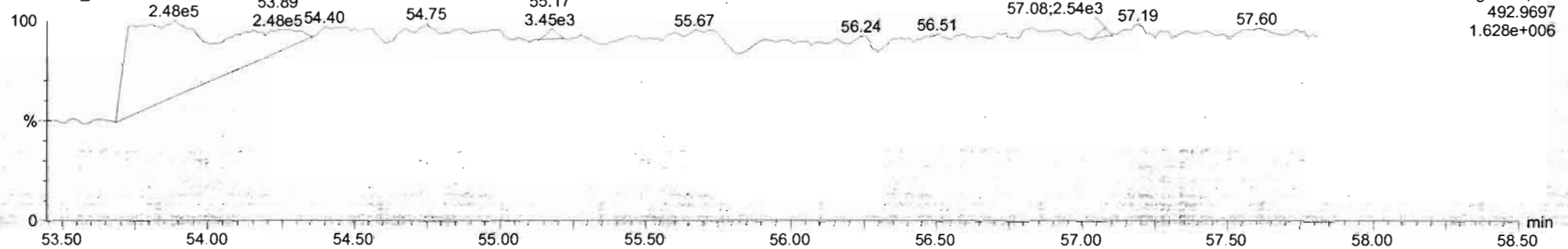


201026K1\_1



**PFK5**

201026K1\_1



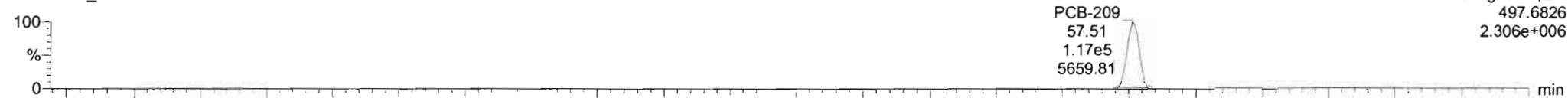
Dataset: Untitled

Last Altered: Monday, October 26, 2020 11:13:09 Pacific Daylight Time  
Printed: Monday, October 26, 2020 11:13:20 Pacific Daylight Time

Name: 201026K1\_1, Date: 26-Oct-2020, Time: 09:33:41, ID: ST201026K1-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

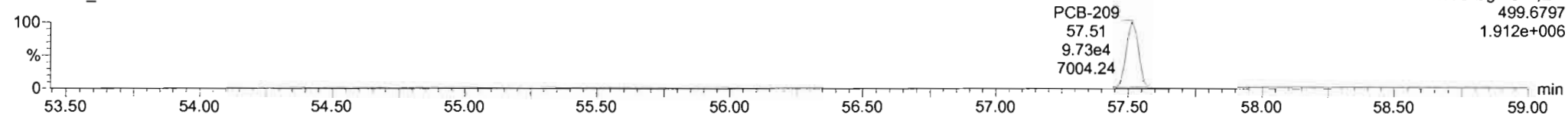
**PCB-209**

201026K1\_1



F5:Voltage SIR,EI+  
497.6826  
2.306e+006

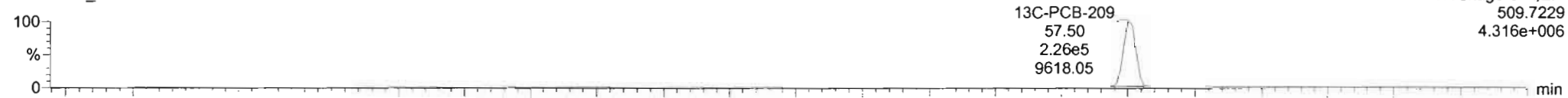
201026K1\_1



F5:Voltage SIR,EI+  
499.6797  
1.912e+006

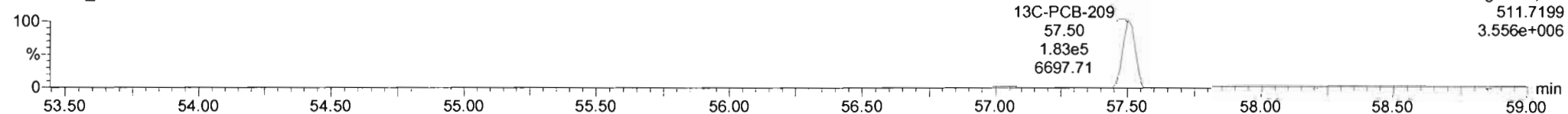
**13C-PCB-209**

201026K1\_1



F5:Voltage SIR,EI+  
509.7229  
4.316e+006

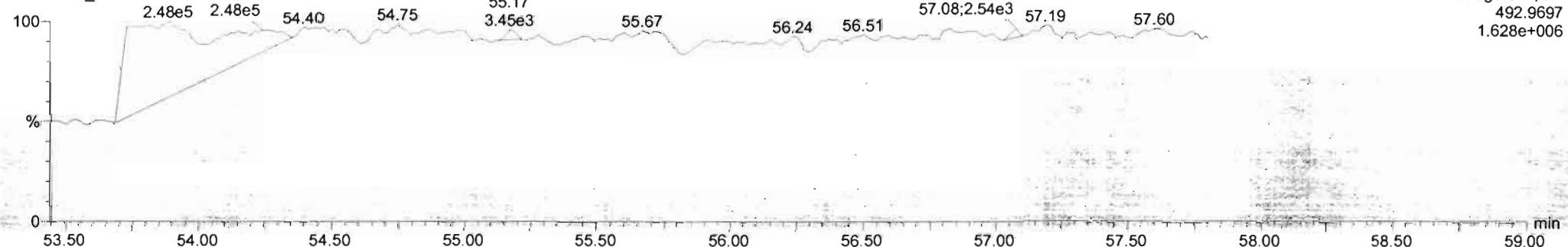
201026K1\_1



F5:Voltage SIR,EI+  
511.7199  
3.556e+006

**PFK5b**

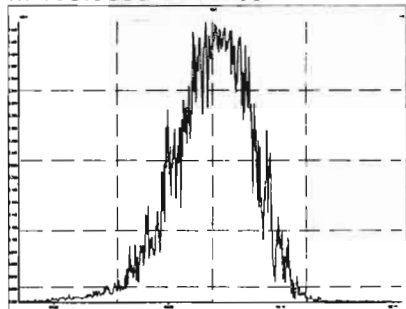
201026K1\_1



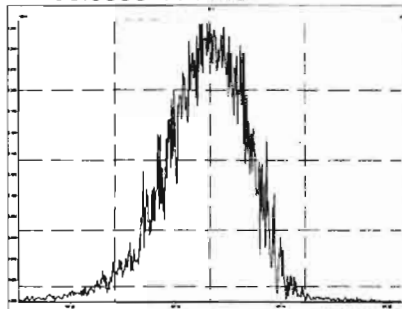
F5:Voltage SIR,EI+  
492.9697  
1.628e+006

Printed: Monday, October 26, 2020 21:45:07 Pacific Daylight Time

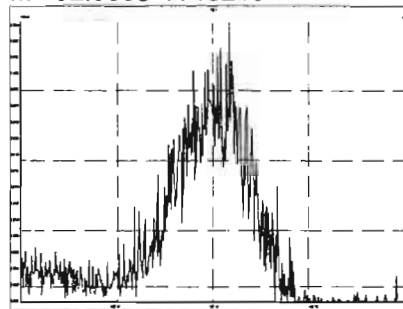
M 168.9888 R 11769



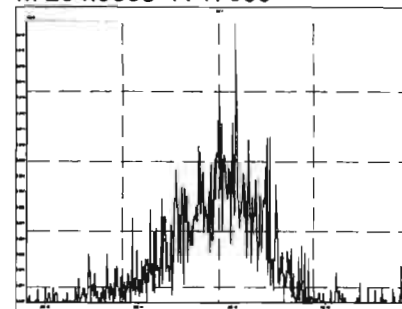
M 180.9888 R 11467



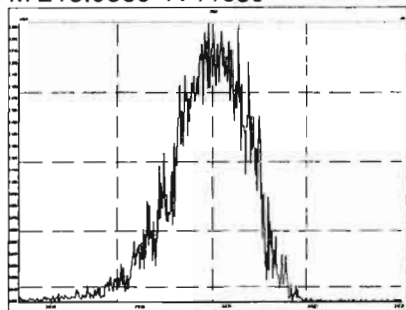
M 192.9888 R 13219



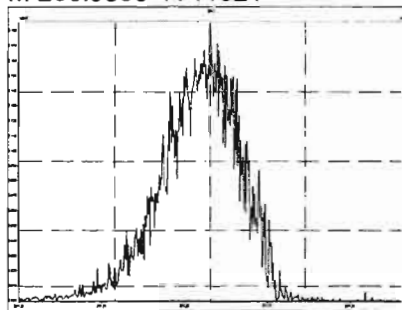
M 204.9888 R 17066



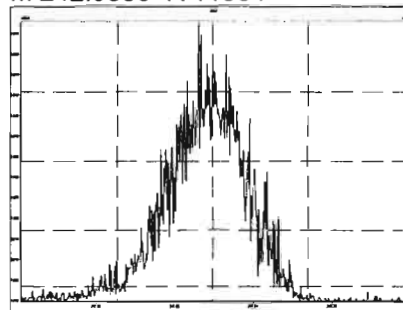
M 218.9856 R 11580



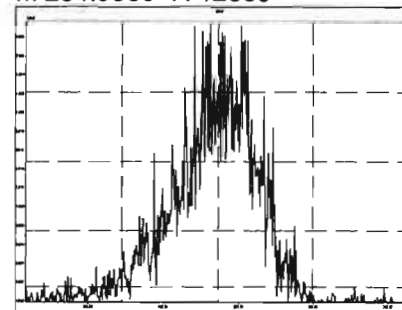
M 230.9856 R 11921



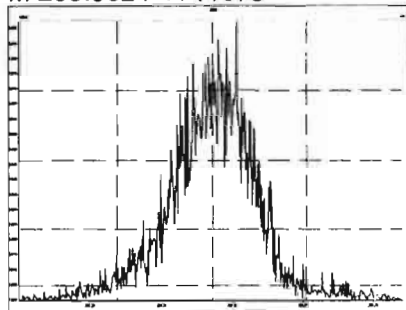
M 242.9856 R 11554



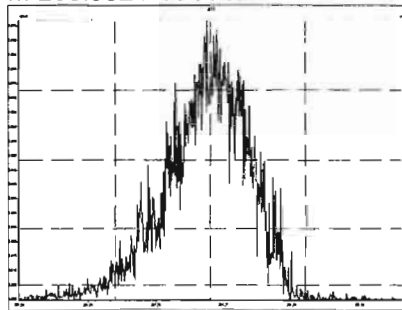
M 254.9856 R 12559



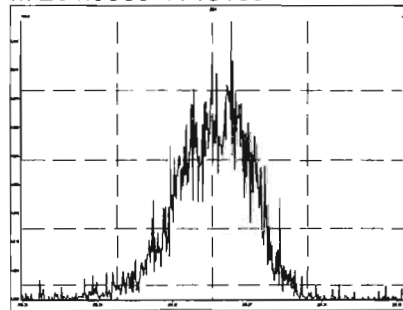
M 268.9824 R 11575



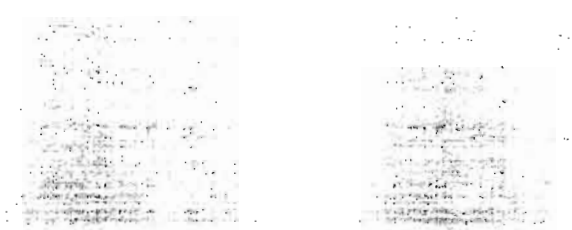
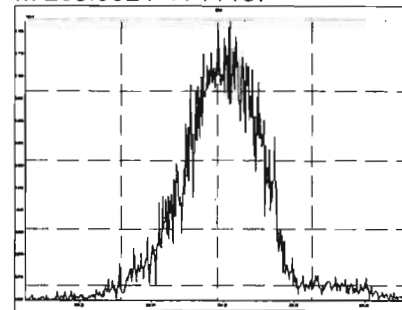
M 280.9824 R 11462



M 254.9856 R 13158

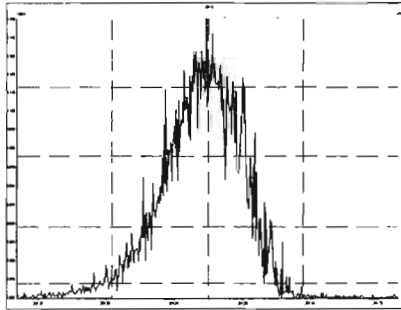


M 268.9824 R 11137

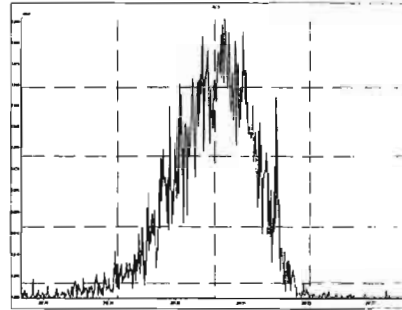


Printed: Monday, October 26, 2020 21:45:07 Pacific Daylight Time

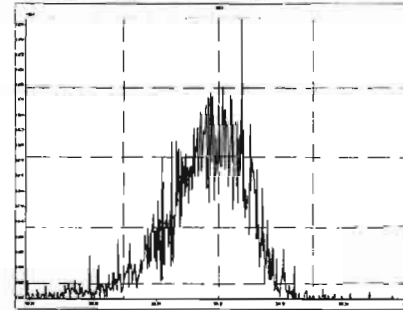
M 280.9824 R 12915



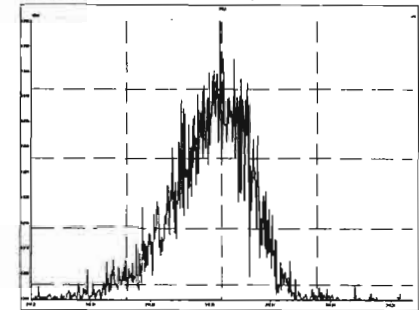
M 292.9824 R 13213



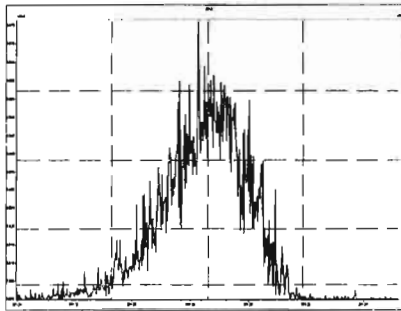
M 304.9824 R 13041



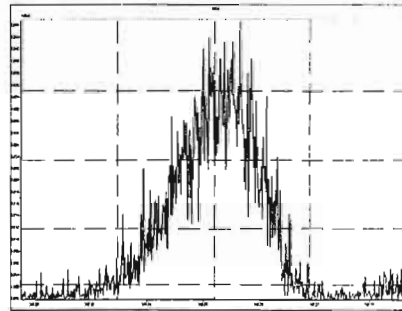
M 318.9792 R 13667



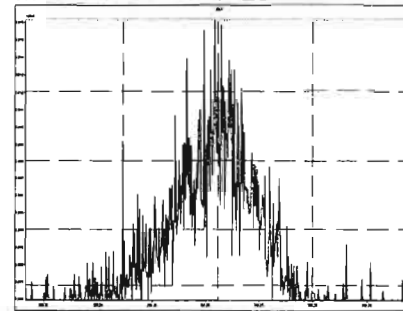
M 330.9792 R 12114



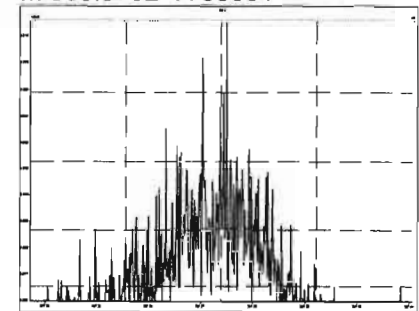
M 342.9792 R 11940



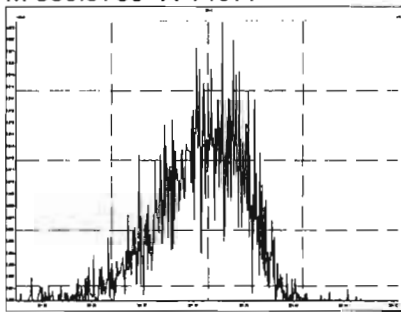
M 354.9792 R 15723



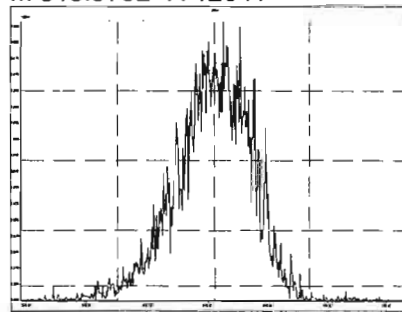
M 366.9792 R 58001



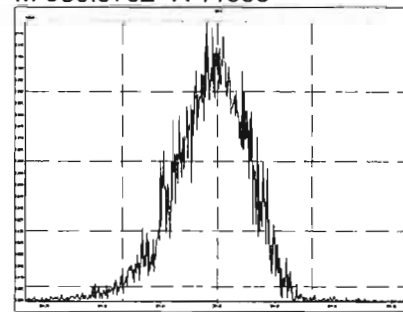
M 380.9760 R 14577



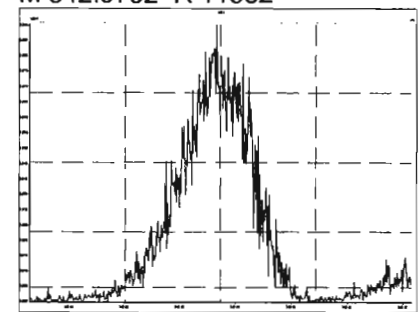
M 318.9792 R 12041



M 330.9792 R 11598

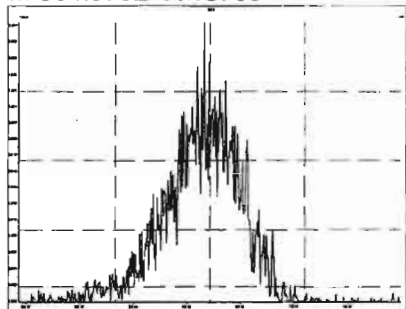


M 342.9792 R 11582

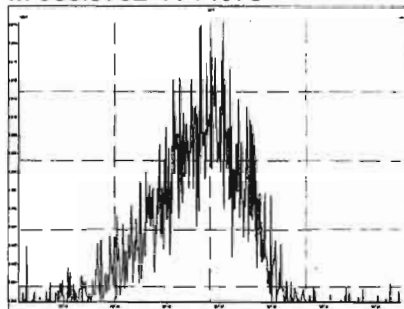


Printed: Monday, October 26, 2020 21:45:07 Pacific Daylight Time

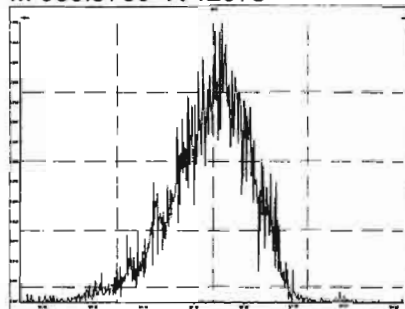
M 354.9792 R 13700



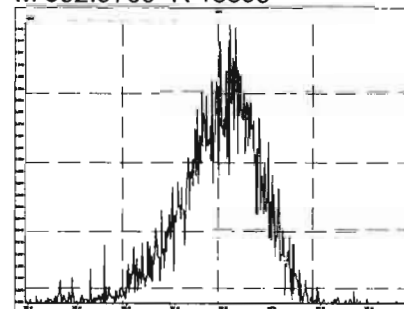
M 366.9792 R 14078



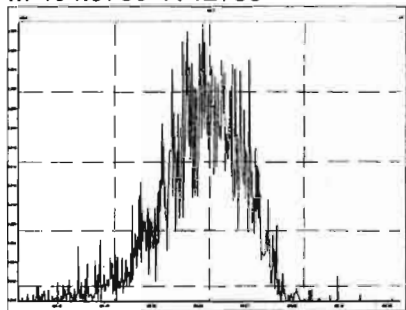
M 380.9760 R 12078



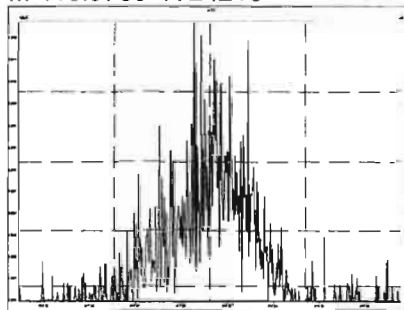
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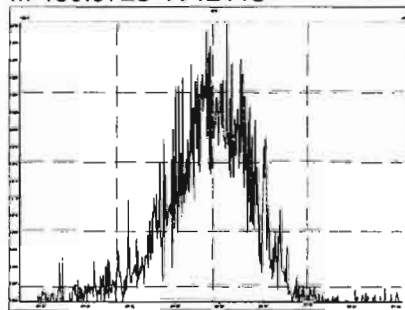
M 404.9760 R 12736



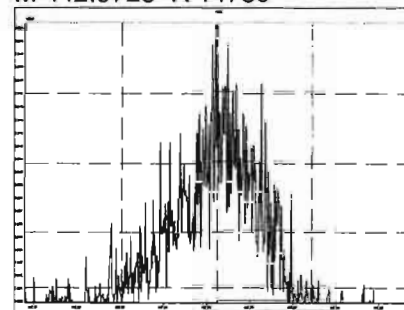
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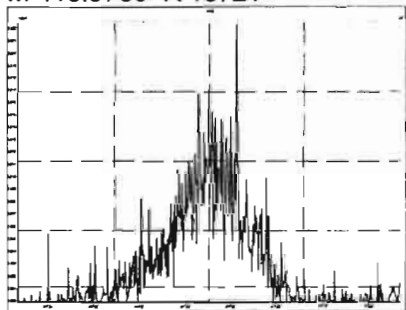
M 430.9728 R 12118



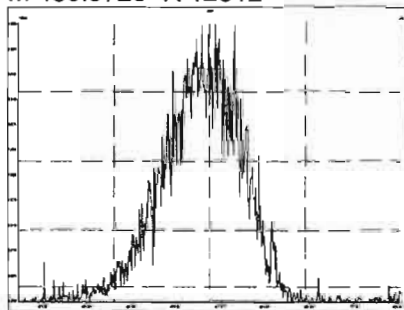
M 442.9728 R 14730



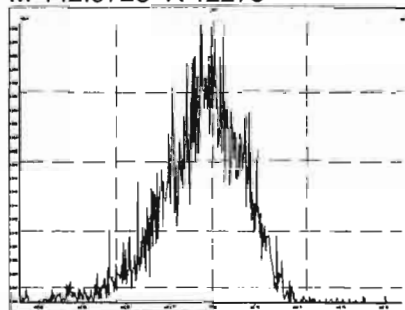
M 416.9760 R 13721



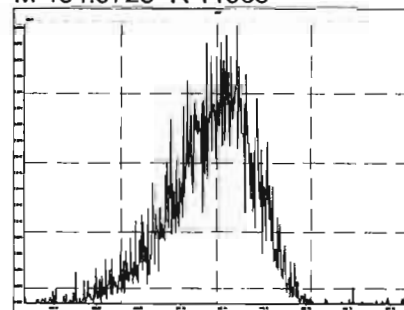
M 430.9728 R 12312



M 442.9728 R 12278

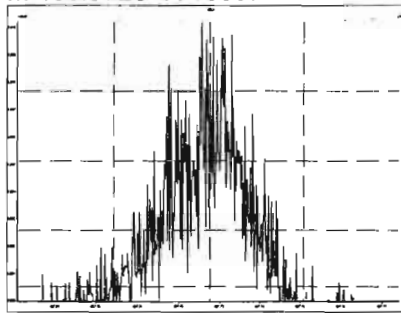


M 454.9728 R 11963

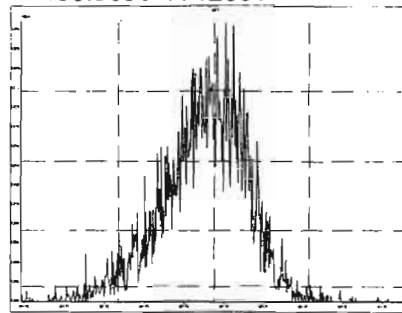


Printed: Monday, October 26, 2020 21:45:07 Pacific Daylight Time

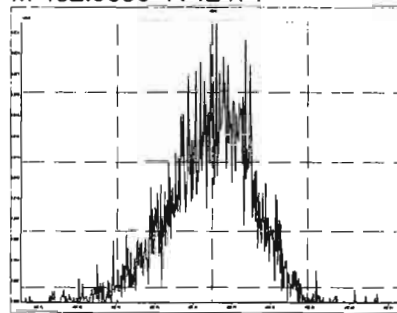
M 466.9728 R 16867



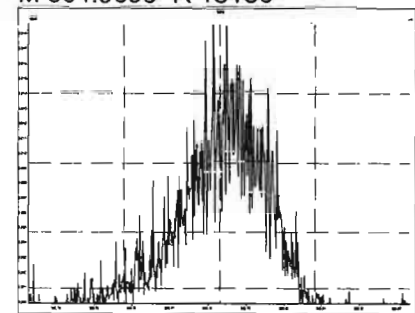
M 480.9696 R 12531



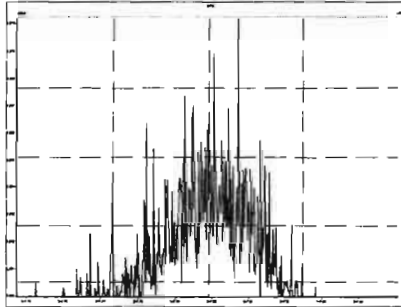
M 492.9696 R 12471



M 504.9696 R 13156



M 516.9697 R 21945



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** STZ010261C3-1

**Reviewed By:** HN 10/29/2020

*Initials & Date*

**End Calibration ID:** NA

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

**Mass resolution  $\geq$**

5k     6-8K     8K     10K  
 1614    1699    429    1613/1668/8280

<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
<b>GC Break &lt;20%</b>	<input checked="" type="checkbox"/> NA	

**8280 CS1 End Standard:**

- Ratios within limits, S/N <2.5x, CS1 within 12 hours

NA

**Comments:**

Ⓐ 1 mass affected by column bleed



Dataset: U:\VG11.PRO\Results\201026K3\201026K3-2.qld

Last Altered: Tuesday, October 27, 2020 13:13:56 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:07:42 Pacific Daylight Time

*HZ 10.28.2020*  
*HN 10/29/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	1.90e6	3.07	NO	1.17	1.000	15.58	15.58	1.001	1.001	NO	58.02	116	0.00747	58.02
2	2 PCB-2	1.97e6	3.17	NO	1.18	1.000	18.00	18.00	0.988	0.988	NO	58.16	116	0.00772	58.16
3	3 PCB-3	1.93e6	3.12	NO	1.15	1.000	18.22	18.22	1.001	1.001	NO	58.71	117	0.00795	58.72
4	4 PCB-4/10	3.80e6	1.56	NO	1.25	1.000	19.65	19.65	1.004	1.004	NO	119.4	119	0.0251	119.4
5	5 PCB-7/9	4.48e6	1.57	NO	0.960	1.000	21.45	21.44	1.003	1.002	NO	120.6	121	0.0216	120.6
6	6 PCB-6	2.41e6	1.57	NO	1.02	1.000	22.10	22.10	1.033	1.033	NO	60.90	122	0.0203	60.90
7	7 PCB-5/8	4.73e6	1.58	NO	0.992	1.000	22.51	22.51	1.052	1.052	NO	123.0	123	0.0209	123.0
8	8 PCB-14	2.42e6	1.59	NO	1.02	1.000	23.64	23.65	0.951	0.952	NO	60.70	121	0.0212	60.70
9	9 PCB-11	2.58e6	1.59	NO	1.13	1.000	24.87	24.87	1.001	1.001	NO	58.37	117	0.0191	58.37
10	10 PCB-12/13	4.87e6	1.59	NO	1.03	1.000	25.30	25.24	1.018	1.016	NO	120.9	121	0.0210	120.9
11	11 PCB-15	2.47e6	1.57	NO	1.03	1.000	25.59	25.59	1.030	1.030	NO	60.73	121	0.0208	60.73
12	12 PCB-19	9.42e5	1.04	NO	1.11	1.000	23.83	23.83	1.001	1.001	NO	54.46	109	0.0154	54.45
13	13 PCB-30	1.55e6	1.05	NO	1.79	1.000	24.73	24.74	1.039	1.040	NO	55.12	110	0.00950	55.12
14	14 PCB-18	1.04e6	1.05	NO	0.818	1.000	25.51	25.51	0.952	0.952	NO	56.11	112	0.0149	56.11
15	15 PCB-17	9.76e5	1.04	NO	0.758	1.000	25.69	25.69	0.959	0.959	NO	56.78	114	0.0161	56.78
16	16 PCB-24/27	2.76e6	1.04	NO	1.08	1.000	26.29	26.28	0.981	0.981	NO	112.4	112	0.0113	112.4
17	17 PCB-16/32	2.35e6	1.04	NO	0.925	1.000	26.82	26.82	1.001	1.001	NO	112.1	112	0.0132	112.1
18	18 PCB-34	2.06e6	1.06	NO	0.945	1.000	27.62	27.64	0.959	0.959	NO	58.07	116	0.0439	58.07
19	19 PCB-23	2.00e6	1.08	NO	0.883	1.000	27.71	27.73	0.962	0.962	NO	60.36	121	0.0470	60.36
20	20 PCB-29	1.93e6	1.07	NO	0.893	1.000	27.97	27.98	0.971	0.971	NO	57.54	115	0.0464	57.54
21	21 PCB-26	2.04e6	1.07	NO	0.944	1.000	28.20	28.20	0.979	0.979	NO	57.57	115	0.0439	57.57
22	22 PCB-25	2.01e6	1.05	NO	0.950	1.000	28.35	28.37	0.984	0.984	NO	56.31	113	0.0437	56.31
23	23 PCB-31	2.22e6	1.07	NO	1.04	1.000	28.73	28.74	0.997	0.997	NO	57.09	114	0.0400	57.09
24	24 PCB-28	2.33e6	1.07	NO	1.03	1.000	28.83	28.83	1.001	1.001	NO	60.43	121	0.0405	60.43
25	25 PCB-20/21/33	6.20e6	1.07	NO	0.941	1.000	29.47	29.46	1.023	1.023	NO	175.5	117	0.0441	175.5
26	26 PCB-22	2.11e6	1.07	NO	0.973	1.000	29.91	29.93	1.038	1.039	NO	57.60	115	0.0426	57.60
27	27 PCB-36	2.14e6	1.09	NO	1.08	1.000	30.56	30.56	0.931	0.931	NO	59.32	119	0.0438	59.32
28	28 PCB-39	1.96e6	1.08	NO	0.988	1.000	31.07	31.05	0.947	0.946	NO	58.97	118	0.0477	58.97
29	29 PCB-38	2.17e6	1.08	NO	1.05	1.000	31.85	31.85	0.970	0.970	NO	61.40	123	0.0448	61.40
30	30 PCB-35	2.06e6	1.09	NO	1.04	1.000	32.39	32.39	0.987	0.987	NO	58.90	118	0.0452	58.90
31	31 PCB-37	2.02e6	1.05	NO	1.01	1.000	32.83	32.83	1.001	1.001	NO	59.72	119	0.0467	59.72
32	32 PCB-54	1.30e6	0.79	NO	1.08	1.000	27.68	27.68	1.001	1.001	NO	56.01	112	0.0209	56.01

*75-1257*

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-2.qld

Last Altered: Tuesday, October 27, 2020 13:13:56 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:07:42 Pacific Daylight Time

Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	1.06e6	0.80	NO	0.880	1.000	28.89	28.89	1.044	1.044	NO	55.85	112	0.0257	55.85
34	34 PCB-53	9.76e5	0.78	NO	0.997	1.000	29.55	29.54	0.944	0.943	NO	55.18	110	0.0268	55.18
35	35 PCB-51	1.08e6	0.81	NO	1.07	1.000	29.90	29.89	0.955	0.955	NO	56.91	114	0.0251	56.91
36	36 PCB-45	8.66e5	0.80	NO	0.858	1.000	30.34	30.34	0.969	0.969	NO	56.87	114	0.0311	56.87
37	37 PCB-46	8.05e5	0.79	NO	0.831	1.000	30.85	30.84	0.985	0.985	NO	54.58	109	0.0322	54.58
38	38 PCB-52/69	2.42e6	0.80	NO	1.17	1.000	31.34	31.34	1.001	1.001	NO	117.0	117	0.0229	117.0
39	39 PCB-73	1.36e6	0.80	NO	1.44	1.000	31.46	31.45	1.005	1.005	NO	53.01	106	0.0185	53.01
40	40 PCB-43/49	2.03e6	0.79	NO	1.02	1.000	31.63	31.64	1.010	1.011	NO	112.4	112	0.0263	112.4
41	41 PCB-47	1.04e6	0.79	NO	0.922	1.000	31.85	31.85	1.001	1.001	NO	59.64	119	0.0273	59.63
42	42 PCB-48/75	2.31e6	0.80	NO	1.12	1.000	31.96	31.96	1.004	1.004	NO	109.5	109	0.0225	109.5
43	43 PCB-65	1.26e6	0.80	NO	1.28	1.000	32.24	32.24	1.013	1.013	NO	52.31	105	0.0196	52.31
44	44 PCB-62	1.16e6	0.80	NO	1.13	1.000	32.33	32.35	1.016	1.016	NO	54.75	110	0.0223	54.75
45	45 PCB-44	8.49e5	0.78	NO	0.824	1.000	32.66	32.67	1.026	1.026	NO	54.64	109	0.0306	54.64
46	46 PCB-42/59	2.19e6	0.79	NO	1.05	1.000	32.89	32.89	1.033	1.033	NO	110.6	111	0.0240	110.6
47	47 PCB-41/64/71/72	4.87e6	0.80	NO	1.19	1.000	33.50	33.50	1.053	1.053	NO	217.5	109	0.0212	217.5
48	48 PCB-68	1.30e6	0.79	NO	1.28	1.000	33.76	33.78	1.061	1.061	NO	54.15	108	0.0197	54.15
49	49 PCB-40	6.41e5	0.83	NO	0.602	1.000	33.98	33.99	1.067	1.068	NO	56.54	113	0.0418	56.54
50	50 PCB-57	1.40e6	0.80	NO	1.16	1.000	34.37	34.38	0.969	0.970	NO	57.12	114	0.0196	57.12
51	51 PCB-67	1.33e6	0.79	NO	1.08	1.000	34.68	34.69	0.978	0.979	NO	58.25	117	0.0210	58.25
52	52 PCB-58	1.39e6	0.79	NO	1.20	1.000	34.80	34.81	0.982	0.982	NO	54.93	110	0.0189	54.93
53	53 PCB-63	1.27e6	0.79	NO	1.07	1.000	34.96	34.97	0.986	0.986	NO	56.16	112	0.0213	56.16
54	54 PCB-74	1.38e6	0.80	NO	1.19	1.000	35.26	35.27	0.994	0.995	NO	55.31	111	0.0193	55.31
55	55 PCB-61/70	2.54e6	0.80	NO	1.05	1.000	35.47	35.40	1.000	0.998	NO	114.6	115	0.0216	114.6
56	56 PCB-76/66	2.73e6	0.80	NO	1.16	1.000	35.67	35.68	1.006	1.006	NO	111.6	112	0.0196	111.6
57	57 PCB-80	1.44e6	0.79	NO	1.19	1.000	35.93	35.92	1.001	1.000	NO	55.42	111	0.0185	55.42
58	58 PCB-55	1.42e6	0.79	NO	1.17	1.000	36.26	36.24	1.010	1.009	NO	55.83	112	0.0187	55.83
59	59 PCB-56/60	2.46e6	0.79	NO	1.02	1.000	36.75	36.76	1.024	1.024	NO	110.6	111	0.0215	110.6
60	60 PCB-79	1.42e6	0.80	NO	1.14	1.000	37.88	37.86	1.055	1.054	NO	57.03	114	0.0192	57.03
61	61 PCB-78	1.33e6	0.78	NO	1.14	1.000	38.58	38.58	0.987	0.987	NO	56.28	113	0.0209	56.28
62	62 PCB-81	1.22e6	0.79	NO	1.05	1.000	39.12	39.12	1.000	1.000	NO	55.82	112	0.0227	55.81
63	63 PCB-77	1.26e6	0.81	NO	1.14	1.000	39.74	39.74	1.000	1.000	NO	54.69	109	0.0217	54.69
64	64 PCB-104	7.76e5	1.62	NO	1.12	1.000	32.52	32.52	1.001	1.001	NO	53.86	108	0.0143	53.86
65	65 PCB-96	8.05e5	1.61	NO	1.15	1.000	33.82	33.82	1.041	1.041	NO	54.34	109	0.0139	54.34
66	66 PCB-103	6.35e5	1.57	NO	0.936	1.000	34.38	34.38	1.058	1.058	NO	52.78	106	0.0171	52.78
67	67 PCB-100	6.43e5	1.59	NO	0.954	1.000	34.75	34.75	1.069	1.069	NO	52.53	105	0.0168	52.53
68	68 PCB-94	5.12e5	1.61	NO	0.949	1.000	35.25	35.23	0.985	0.985	NO	52.45	105	0.0219	52.45

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Last Altered: Tuesday, October 27, 2020 13:13:56 Pacific Daylight Time  
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Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	1.93e6	1.61	NO	1.20	1.000	35.72	35.72	0.999	0.998	NO	155.6	104	0.0172	155.6
70	70 PCB-93	5.31e5	1.60	NO	0.935	1.000	35.87	35.87	1.003	1.003	NO	55.22	110	0.0222	55.22
71	71 PCB-88/91	1.11e6	1.59	NO	1.06	1.000	36.20	36.20	1.012	1.012	NO	101.4	101	0.0195	101.4
72	72 PCB-121	9.41e5	1.60	NO	1.71	1.000	36.31	36.29	1.015	1.015	NO	53.55	107	0.0121	53.55
73	73 PCB-84/92	1.07e6	1.58	NO	1.02	1.000	37.15	37.13	0.990	0.990	NO	102.1	102	0.0205	102.1
74	74 PCB-89	6.09e5	1.60	NO	1.11	1.000	37.34	37.33	0.995	0.995	NO	53.39	107	0.0189	53.39
75	75 PCB-90/101	1.23e6	1.61	NO	1.12	1.000	37.53	37.52	1.000	1.000	NO	106.1	106	0.0186	106.1
76	76 PCB-113	7.83e5	1.59	NO	1.51	1.000	37.78	37.78	1.007	1.007	NO	50.11	100	0.0138	50.11
77	77 PCB-99	7.37e5	1.64	NO	1.32	1.000	37.88	37.88	1.010	1.009	NO	54.05	108	0.0158	54.05
78	78 PCB-119	8.34e5	1.62	NO	1.81	1.000	38.36	38.34	0.987	0.987	NO	50.49	101	0.0130	50.49
79	79 PCB-108/112	1.43e6	1.63	NO	1.44	1.000	38.51	38.51	0.991	0.991	NO	107.9	108	0.0162	107.9
80	80 PCB-83	8.82e5	1.60	NO	1.83	1.000	38.69	38.67	0.996	0.995	NO	52.60	105	0.0128	52.60
81	81 PCB-97	6.04e5	1.59	NO	1.28	1.000	38.88	38.88	1.000	1.000	NO	51.52	103	0.0183	51.52
82	82 PCB-86	5.35e5	1.59	NO	1.12	1.000	39.05	39.03	1.005	1.004	NO	52.34	105	0.0210	52.34
83	83 PCB-87/117/125	2.32e6	1.61	NO	1.56	1.000	39.17	39.16	1.008	1.008	NO	162.5	108	0.0150	162.5
84	84 PCB-111/115	1.73e6	1.58	NO	1.91	1.000	39.33	39.33	1.012	1.012	NO	98.67	98.7	0.0123	98.67
85	85 PCB-85/116	1.41e6	1.61	NO	1.41	1.000	39.46	39.44	1.015	1.015	NO	109.1	109	0.0166	109.1
86	86 PCB-120	9.47e5	1.57	NO	2.01	1.000	39.72	39.72	1.022	1.022	NO	51.60	103	0.0117	51.60
87	87 PCB-110	8.56e5	1.60	NO	1.74	1.000	39.87	39.85	1.026	1.025	NO	53.68	107	0.0135	53.68
88	88 PCB-82	5.26e5	1.60	NO	0.781	1.000	40.48	40.50	0.975	0.976	NO	54.89	110	0.0219	54.89
89	89 PCB-124	8.75e5	1.62	NO	1.40	1.000	41.19	41.21	0.993	0.993	NO	51.00	102	0.0122	51.00
90	90 PCB-107/109	1.76e6	1.61	NO	1.34	1.000	41.33	41.35	0.996	0.996	NO	106.6	107	0.0127	106.6
91	91 PCB-123	7.81e5	1.59	NO	1.20	1.000	41.52	41.52	1.000	1.000	NO	53.10	106	0.0143	53.10
92	92 PCB-106/118	1.66e6	1.61	NO	1.22	1.000	41.73	41.75	1.001	1.001	NO	106.7	107	0.0136	106.7
93	93 PCB-114	1.56e6	1.57	NO	1.14	1.000	42.39	42.38	1.000	1.000	NO	56.45	113	0.0170	56.45
94	94 PCB-122	1.35e6	1.57	NO	0.944	1.000	42.54	42.54	1.004	1.004	NO	59.04	118	0.0205	59.04
95	95 PCB-105	1.48e6	1.62	NO	1.05	1.000	43.27	43.28	1.000	1.000	NO	56.59	113	0.0180	56.59
96	96 PCB-127	1.53e6	1.57	NO	1.06	1.000	43.63	43.64	1.000	1.000	NO	56.39	113	0.0175	56.39
97	97 PCB-126	1.46e6	1.58	NO	1.17	1.000	45.59	45.59	1.000	1.000	NO	56.25	113	0.0185	56.26
98	98 PCB-155	4.12e5	1.31	NO	1.04	1.000	37.06	37.06	1.000	1.000	NO	50.13	100	0.0112	50.13
99	99 PCB-150	4.49e5	1.32	NO	1.08	1.000	38.36	38.36	1.036	1.036	NO	52.65	105	0.0108	52.65
100	1... PCB-152	4.98e5	1.29	NO	1.19	1.000	38.84	38.84	1.049	1.049	NO	53.36	107	0.00986	53.36
101	1... PCB-145	4.95e5	1.29	NO	1.19	1.000	39.31	39.31	1.061	1.061	NO	52.95	106	0.00984	52.95
102	1... PCB-136	4.30e5	1.29	NO	1.02	1.000	39.64	39.64	1.070	1.070	NO	53.48	107	0.0115	53.48
103	1... PCB-148	3.57e5	1.31	NO	0.842	1.000	39.74	39.76	1.073	1.073	NO	53.89	108	0.0139	53.89
104	1... PCB-154	3.81e5	1.31	NO	0.919	1.000	40.26	40.28	1.087	1.087	NO	52.74	105	0.0127	52.74

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Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	3.31e5	1.36	NO	0.787	1.000	40.93	40.93	1.105	1.105	NO	53.50	107	0.0149	53.50
106	1... PCB-135	3.69e5	1.33	NO	0.922	1.000	41.15	41.15	1.111	1.111	NO	50.86	102	0.0127	50.86
107	1... PCB-144	3.50e5	1.28	NO	0.789	1.000	41.26	41.26	1.114	1.114	NO	56.41	113	0.0148	56.41
108	1... PCB-147	3.52e5	1.32	NO	0.834	1.000	41.39	41.39	1.117	1.118	NO	53.60	107	0.0140	53.60
109	1... PCB-139/149	7.88e5	1.30	NO	0.948	1.000	41.68	41.67	1.125	1.125	NO	105.6	106	0.0123	105.6
110	1... PCB-140	3.38e5	1.31	NO	0.794	1.000	41.86	41.86	1.130	1.130	NO	54.11	108	0.0147	54.11
111	1... PCB-134/143	1.54e6	1.26	NO	0.759	1.000	42.31	42.31	0.974	0.974	NO	114.5	114	0.0453	114.5
112	1... PCB-131/133	1.62e6	1.27	NO	0.821	1.000	42.63	42.63	0.982	0.982	NO	111.9	112	0.0419	111.9
113	1... PCB-142	7.25e5	1.27	NO	0.754	1.000	42.79	42.78	0.985	0.985	NO	54.36	109	0.0456	54.36
114	1... PCB-146/165	1.90e6	1.30	NO	1.02	1.000	43.03	43.01	0.991	0.990	NO	105.7	106	0.0338	105.7
115	1... PCB-132/161	1.94e6	1.30	NO	1.02	1.000	43.28	43.26	0.997	0.996	NO	106.9	107	0.0336	106.9
116	1... PCB-153	1.02e6	1.30	NO	1.07	1.000	43.44	43.45	1.000	1.000	NO	53.90	108	0.0321	53.90
117	1... PCB-168	1.04e6	1.28	NO	1.08	1.000	43.67	43.67	1.006	1.006	NO	54.80	110	0.0319	54.80
118	1... PCB-141	8.12e5	1.26	NO	1.03	1.000	44.20	44.20	1.000	1.000	NO	54.73	109	0.0421	54.73
119	1... PCB-137	8.46e5	1.26	NO	1.11	1.000	44.60	44.60	1.009	1.009	NO	52.75	106	0.0389	52.75
120	1... PCB-130	7.09e5	1.28	NO	0.885	1.000	44.69	44.72	1.012	1.012	NO	55.49	111	0.0488	55.49
121	1... PCB-138/163/164	3.10e6	1.25	NO	1.28	1.000	45.09	45.10	1.001	1.001	NO	161.5	108	0.0326	161.5
122	1... PCB-158/160	1.99e6	1.27	NO	1.24	1.000	45.36	45.34	1.007	1.006	NO	107.4	107	0.0338	107.4
123	1... PCB-129	6.78e5	1.28	NO	0.867	1.000	45.59	45.59	1.012	1.012	NO	52.32	105	0.0483	52.32
124	1... PCB-166	1.09e6	1.28	NO	1.14	1.000	46.06	46.06	0.993	0.993	NO	53.57	107	0.0306	53.57
125	1... PCB-159	1.17e6	1.27	NO	1.22	1.000	46.41	46.40	1.001	1.000	NO	53.98	108	0.0288	53.98
126	1... PCB-128/162	1.79e6	1.27	NO	0.907	1.000	46.69	46.71	1.007	1.007	NO	110.4	110	0.0385	110.4
127	1... PCB-167	1.07e6	1.26	NO	1.11	1.000	47.10	47.10	1.000	1.000	NO	54.32	109	0.0319	54.32
128	1... PCB-156	1.07e6	1.28	NO	1.13	1.000	48.43	48.43	1.000	1.000	NO	54.71	109	0.0324	54.71
129	1... PCB-157	9.86e5	1.23	NO	1.04	1.000	48.71	48.71	1.000	1.000	NO	54.41	109	0.0349	54.41
130	1... PCB-169	1.01e6	1.29	NO	1.16	1.000	50.99	50.99	1.000	1.000	NO	54.26	109	0.0357	54.26
131	1... PCB-188	8.85e5	1.05	NO	1.29	1.000	43.09	43.07	1.001	1.000	NO	55.14	110	0.0272	55.14
132	1... PCB-184	8.57e5	1.07	NO	1.23	1.000	43.54	43.52	1.011	1.011	NO	55.93	112	0.0284	55.93
133	1... PCB-179	8.79e5	1.05	NO	1.30	1.000	44.34	44.34	1.030	1.030	NO	54.43	109	0.0270	54.43
134	1... PCB-176	8.85e5	1.04	NO	1.31	1.000	44.83	44.81	1.041	1.041	NO	54.37	109	0.0268	54.37
135	1... PCB-186	9.29e5	1.06	NO	1.33	1.000	45.45	45.44	1.056	1.055	NO	56.19	112	0.0263	56.19
136	1... PCB-178	6.34e5	1.04	NO	0.943	1.000	45.97	45.95	1.068	1.067	NO	54.03	108	0.0371	54.03
137	1... PCB-175	6.56e5	1.05	NO	0.956	1.000	46.33	46.31	1.076	1.076	NO	55.09	110	0.0366	55.09
138	1... PCB-182/187	1.48e6	1.06	NO	1.07	1.000	46.50	46.50	1.080	1.080	NO	111.5	111	0.0328	111.5
139	1... PCB-183	7.08e5	1.04	NO	1.02	1.000	46.82	46.82	1.088	1.088	NO	55.65	111	0.0342	55.65
140	1... PCB-185	6.42e5	1.06	NO	1.41	1.000	47.50	47.50	0.955	0.955	NO	52.35	105	0.0361	52.35

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-2.qld

Last Altered: Tuesday, October 27, 2020 13:13:56 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:07:42 Pacific Daylight Time

Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	6.25e5	1.05	NO	1.35	1.000	47.87	47.86	0.962	0.962	NO	52.90	106	0.0375	52.90
142	1... PCB-181	6.95e5	1.07	NO	1.47	1.000	47.98	47.97	0.964	0.964	NO	54.02	108	0.0344	54.02
143	1... PCB-177	5.96e5	1.04	NO	1.28	1.000	48.16	48.15	0.968	0.968	NO	53.39	107	0.0397	53.39
144	1... PCB-171	6.13e5	1.05	NO	1.32	1.000	48.47	48.45	0.974	0.974	NO	53.33	107	0.0385	53.33
145	1... PCB-173	5.59e5	1.07	NO	1.19	1.000	48.89	48.88	0.983	0.983	NO	53.85	108	0.0426	53.85
146	1... PCB-172	6.35e5	1.06	NO	1.38	1.000	49.36	49.36	0.992	0.992	NO	52.87	106	0.0369	52.87
147	1... PCB-192	8.30e5	1.06	NO	1.83	1.000	49.57	49.55	0.996	0.996	NO	52.06	104	0.0278	52.06
148	1... PCB-180	6.61e5	1.05	NO	1.41	1.000	49.78	49.77	1.000	1.000	NO	53.67	107	0.0359	53.67
149	1... PCB-193	7.51e5	1.07	NO	1.68	1.000	49.99	49.98	1.005	1.005	NO	51.29	103	0.0303	51.29
150	1... PCB-191	7.57e5	1.05	NO	1.71	1.000	50.25	50.25	1.010	1.010	NO	50.72	101	0.0297	50.72
151	1... PCB-170	5.56e5	1.05	NO	1.40	1.000	51.42	51.42	1.000	1.000	NO	54.06	108	0.0429	54.06
152	1... PCB-190	7.27e5	1.04	NO	1.85	1.000	51.63	51.63	1.005	1.004	NO	53.55	107	0.0324	53.55
153	1... PCB-189	7.32e5	1.05	NO	1.45	1.000	53.13	53.13	1.000	1.000	NO	53.94	108	0.0280	53.94
154	1... PCB-202	5.75e5	0.91	NO	1.17	1.000	48.68	48.66	1.001	1.000	NO	51.73	103	0.0129	51.73
155	1... PCB-201	5.31e5	0.91	NO	1.05	1.000	49.15	49.15	1.010	1.010	NO	53.09	106	0.0143	53.09
156	1... PCB-204	5.53e5	0.93	NO	1.14	1.000	49.30	49.32	1.014	1.014	NO	51.02	102	0.0132	51.02
157	1... PCB-197	5.61e5	0.93	NO	1.13	1.000	49.62	49.64	1.020	1.021	NO	52.08	104	0.0133	52.08
158	1... PCB-200	5.31e5	0.90	NO	1.07	1.000	50.55	50.57	1.039	1.040	NO	52.22	104	0.0141	52.22
159	1... PCB-198	4.02e5	0.90	NO	0.794	1.000	52.10	52.12	1.071	1.072	NO	53.32	107	0.0190	53.31
160	1... PCB-199	3.93e5	0.92	NO	0.809	1.000	52.24	52.24	1.074	1.074	NO	51.12	102	0.0186	51.12
161	1... PCB-196/203	8.37e5	0.89	NO	0.838	1.000	52.53	52.54	1.080	1.080	NO	105.0	105	0.0180	105.0
162	1... PCB-195	7.66e5	0.89	NO	1.04	1.000	53.83	53.81	0.984	0.983	NO	53.72	107	0.0235	53.72
163	1... PCB-194	8.41e5	0.89	NO	1.12	1.000	54.74	54.74	1.000	1.000	NO	55.20	110	0.0220	55.20
164	1... PCB-205	1.00e6	0.89	NO	1.29	1.000	55.01	55.00	1.005	1.005	NO	56.85	114	0.0190	56.85
165	1... PCB-208	7.60e5	1.36	NO	0.933	1.000	53.98	53.97	1.000	1.000	NO	54.34	109	0.0252	54.34
166	1... PCB-207	7.48e5	1.39	NO	0.916	1.000	54.30	54.31	1.006	1.007	NO	54.50	109	0.0257	54.50
167	1... PCB-206	5.61e5	1.37	NO	1.01	1.000	56.27	56.27	1.000	1.000	NO	53.41	107	0.0342	53.41
168	1... PCB-209	5.25e5	1.19	NO	0.986	1.000	57.49	57.49	1.000	1.000	NO	53.19	106	0.00544	53.19
169	1... 13C-PCB-1	2.81e6	3.31	NO	0.893	1.000	15.57	15.57	0.609	0.609	NO	77.53	77.5	0.0357	
170	1... 13C-PCB-3	2.86e6	3.33	NO	0.911	1.000	18.21	18.21	0.712	0.712	NO	77.55	77.6	0.0350	
171	1... 13C-PCB-4	2.55e6	1.63	NO	0.600	1.000	19.58	19.57	0.766	0.765	NO	104.8	105	0.0243	
172	1... 13C-PCB-9	3.87e6	1.62	NO	0.970	1.000	21.39	21.39	0.837	0.837	NO	98.58	98.6	0.0150	
173	1... 13C-PCB-11	3.93e6	1.62	NO	0.962	1.000	24.85	24.85	0.972	0.972	NO	100.7	101	0.0151	
174	1... 13C-PCB-19	1.56e6	1.06	NO	0.499	1.000	23.81	23.80	0.931	0.931	NO	77.31	77.3	0.133	
175	1... 13C-PCB-32	2.27e6	1.05	NO	0.744	1.000	26.80	26.80	1.048	1.048	NO	75.15	75.2	0.0892	
176	1... 13C-PCB-28	3.76e6	1.12	NO	1.06	1.000	28.81	28.81	1.004	1.004	NO	99.48	99.5	0.134	

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-2.qld

Last Altered: Tuesday, October 27, 2020 13:13:56 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:07:42 Pacific Daylight Time

Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	3.36e6	1.10	NO	0.989	1.000	32.79	32.81	1.143	1.143	NO	95.61	95.6	0.144	
178	1... 13C-PCB-54	2.16e6	0.80	NO	0.999	1.000	27.65	27.66	0.753	0.753	NO	101.2	101	0.0464	
179	1... 13C-PCB-52	1.77e6	0.80	NO	0.804	1.000	31.32	31.31	0.853	0.852	NO	103.5	104	0.0576	
180	1... 13C-PCB-47	1.88e6	0.81	NO	0.857	1.000	31.85	31.83	0.867	0.866	NO	103.1	103	0.0541	
181	1... 13C-PCB-70	2.10e6	0.85	NO	0.996	1.000	35.47	35.46	0.965	0.965	NO	99.12	99.1	0.0465	
182	1... 13C-PCB-80	2.18e6	0.82	NO	1.03	1.000	35.91	35.90	0.977	0.977	NO	99.58	99.6	0.0451	
183	1... 13C-PCB-81	2.08e6	0.80	NO	0.988	1.000	39.10	39.10	1.064	1.064	NO	99.00	99.0	0.0469	
184	1... 13C-PCB-77	2.03e6	0.82	NO	0.969	1.000	39.72	39.72	1.081	1.081	NO	98.34	98.3	0.0478	
185	1... 13C-PCB-104	1.28e6	1.67	NO	1.02	1.000	32.49	32.50	0.827	0.827	NO	97.58	97.6	0.0493	
186	1... 13C-PCB-95	1.03e6	1.63	NO	0.805	1.000	35.75	35.77	0.910	0.910	NO	98.56	98.6	0.0623	
187	1... 13C-PCB-101	1.03e6	1.65	NO	0.793	1.000	37.50	37.52	0.954	0.955	NO	100.5	101	0.0633	
188	1... 13C-PCB-97	9.15e5	1.60	NO	0.696	1.000	38.84	38.86	0.988	0.989	NO	101.5	101	0.0720	
189	1... 13C-PCB-123	1.23e6	1.62	NO	0.933	1.000	41.50	41.50	1.056	1.056	NO	101.6	102	0.0537	
190	1... 13C-PCB-118	1.28e6	1.64	NO	0.986	1.000	41.69	41.69	1.061	1.061	NO	100.1	100	0.0509	
191	1... 13C-PCB-114	2.42e6	1.63	NO	1.55	1.000	42.36	42.37	0.908	0.908	NO	122.9	123	0.0300	
192	1... 13C-PCB-105	2.48e6	1.60	NO	1.57	1.000	43.28	43.26	0.927	0.927	NO	124.2	124	0.0295	
193	1... 13C-PCB-127	2.56e6	1.61	NO	1.62	1.000	43.62	43.62	0.935	0.935	NO	123.9	124	0.0285	
194	1... 13C-PCB-126	2.22e6	1.63	NO	1.57	1.000	45.57	45.57	0.976	0.976	NO	111.2	111	0.0296	
195	1... 13C-PCB-155	7.87e5	1.31	NO	0.615	1.000	37.04	37.04	0.942	0.942	NO	98.87	98.9	0.0223	
196	1... 13C-PCB-153	1.77e6	1.29	NO	1.36	1.000	43.42	43.43	0.930	0.931	NO	101.8	102	0.0438	
197	1... 13C-PCB-141	1.44e6	1.30	NO	1.13	1.000	44.21	44.19	0.947	0.947	NO	100.6	101	0.0530	
198	1... 13C-PCB-138	1.49e6	1.29	NO	1.18	1.000	45.06	45.06	0.965	0.965	NO	99.17	99.2	0.0505	
199	1... 13C-PCB-159	1.78e6	1.31	NO	1.44	1.000	46.40	46.38	0.994	0.994	NO	97.31	97.3	0.0415	
200	2... 13C-PCB-167	1.78e6	1.30	NO	1.44	1.000	47.10	47.08	1.009	1.009	NO	97.00	97.0	0.0415	
201	2... 13C-PCB-156	1.73e6	1.30	NO	1.40	1.000	48.43	48.41	1.038	1.037	NO	97.44	97.4	0.0428	
202	2... 13C-PCB-157	1.75e6	1.29	NO	1.40	1.000	48.72	48.69	1.044	1.043	NO	98.19	98.2	0.0428	
203	2... 13C-PCB-169	1.61e6	1.29	NO	1.33	1.000	50.99	50.97	1.093	1.092	NO	94.95	95.0	0.0449	
204	2... 13C-PCB-188	1.24e6	0.45	NO	1.41	1.000	43.03	43.05	0.926	0.926	NO	95.65	95.7	0.0312	
205	2... 13C-PCB-180	8.73e5	0.48	NO	0.929	1.000	49.74	49.76	1.070	1.071	NO	101.8	102	0.0473	
206	2... 13C-PCB-170	7.34e5	0.46	NO	0.794	1.000	51.40	51.40	1.106	1.106	NO	100.1	100	0.0553	
207	2... 13C-PCB-189	9.34e5	0.45	NO	1.04	1.000	53.10	53.11	1.143	1.143	NO	96.85	96.9	0.0421	
208	2... 13C-PCB-202	9.51e5	0.93	NO	1.04	1.000	48.64	48.64	1.046	1.046	NO	99.44	99.4	0.0295	
209	2... 13C-PCB-194	1.37e6	0.96	NO	0.768	1.000	54.70	54.72	0.995	0.995	NO	97.57	97.6	0.0474	
210	2... 13C-PCB-208	1.50e6	0.80	NO	0.991	1.000	53.94	53.96	0.981	0.981	NO	82.95	83.0	0.0342	
211	2... 13C-PCB-206	1.04e6	0.80	NO	0.552	1.000	56.24	56.26	1.023	1.023	NO	103.6	104	0.0614	
212	2... 13C-PCB-209	1.00e6	1.22	NO	0.396	1.000	57.49	57.49	1.046	1.046	NO	138.5	138	0.0106	

Handwritten note: 95.6 (145) with a vertical line pointing down from the %Rec column of row 177 to row 212.

Dataset: U:\VG11.PRO\Results\201026K3\201026K3-2.qld

Last Altered: Tuesday, October 27, 2020 13:13:56 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:07:42 Pacific Daylight Time

Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	4.05e6	1.62	NO	1.00	1.000	25.58	25.57	1.000	0.000	NO	100.0	100	0.0146	
214	2... 13C-PCB-31	3.55e6	1.05	NO	1.00	1.000	28.72	28.70	1.000	0.000	NO	100.0	100	0.142	
215	2... 13C-PCB-60	2.13e6	0.81	NO	1.00	1.000	36.74	36.74	1.000	0.000	NO	100.0	100	0.0463	
216	2... 13C-PCB-111	1.30e6	1.62	NO	1.00	1.000	39.33	39.31	1.000	0.000	NO	100.0	100	0.0501	
217	2... 13C-PCB-128	1.27e6	1.29	NO	1.00	1.000	46.67	46.67	1.000	0.000	NO	100.0	100	0.0598	
218	2... 13C-PCB-182	9.23e5	0.47	NO	1.00	1.000	46.50	46.48	0.000	0.000	NO	100.0	100	0.0439	
219	2... 13C-PCB-205	1.82e6	0.97	NO	1.00	1.000	55.01	54.98	1.000	0.000	NO	100.0	100	0.0364	
220	2... 13C-PCB-79	2.30e6	0.82	NO	1.07	1.000	37.84	37.84	1.030	1.030	NO	101.0	101	0.0434	
221	2... 13C-PCB-178	8.63e5	0.46	NO	0.766	1.000	45.93	45.93	0.988	0.988	NO	88.52	88.5	0.0419	
222	2... 13C-PCB-79	2.30e6	0.82	NO	1.08	1.000	37.84	37.84	0.968	0.968	NO	102.0	102	0.0442	
223	2... 13C-PCB-178	8.63e5	0.46	NO	1.05	1.000	45.94	45.93	0.923	0.923	NO	94.11	94.1	0.0452	

*Handwritten note:* KMJ  
↓

Dataset: Untitled

Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 08:48:59 Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

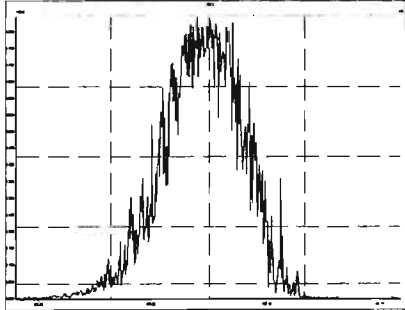
Compound name: PCB-1

	Name	ID	Acq.Date	Acq.Time
1	201026K3_1	SOLVENT BLANK	27-Oct-20	10:57:49
2	201026K3_2	ST201026K3-1 PCB 209 CS3 19G2609	27-Oct-20	11:56:35
3	201026K3_3	SOLVENT BLANK	27-Oct-20	12:57:02
4	201026K3_4	2002157-04 USMPDI-044SG-201008 13.66	27-Oct-20	13:57:28
5	201026K3_5	2002157-05 USMPDI-049SG-201008 13.91	27-Oct-20	14:57:54
6	201026K3_6	2002157-06 USMPDI-052SG-201008 13.38	27-Oct-20	15:58:21
7	201026K3_7	2002171-01 USMPDI-041SG-201009 14.31	27-Oct-20	16:58:48
8	201026K3_8	2002171-02 USMPDI-042SG-201009 13.49	27-Oct-20	17:59:15
9	201026K3_9	2002171-03 USMPDI-043SG-201009 14.32	27-Oct-20	18:59:41
10	201026K3_10	2002171-04 USMPDI-047SG-201009 13.6	27-Oct-20	20:00:06
11	201026K3_11	2002171-05 USMPDI-050SG-201009 14.75	27-Oct-20	21:00:32
12	201026K3_12	2002171-06 USMPDI-051SG-201009 13.98	27-Oct-20	22:00:58
13	201026K3_13	2002171-07 USMPDI-054SG-201009 13.37	27-Oct-20	23:01:28

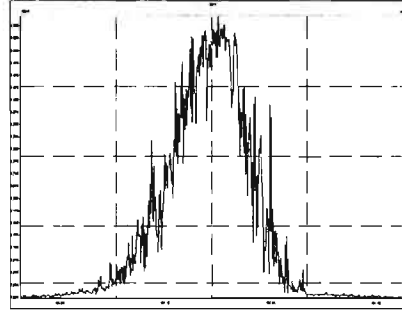


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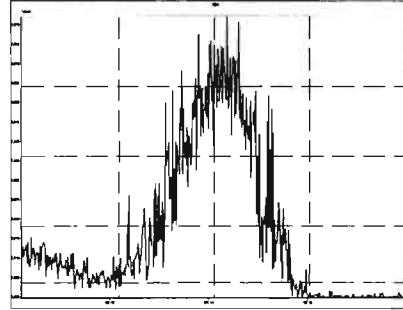
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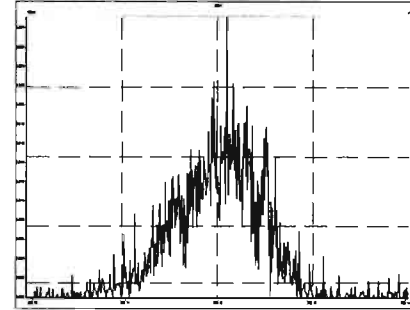
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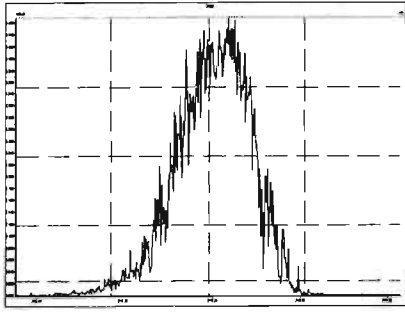
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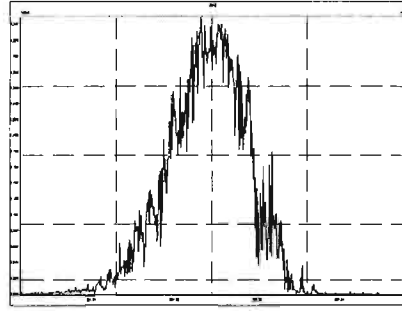
M 204.9888 R 14001



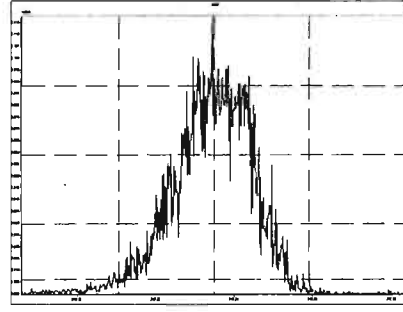
M 218.9856 R 12136



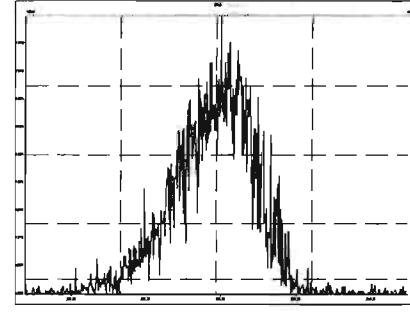
M 230.9856 R 11931



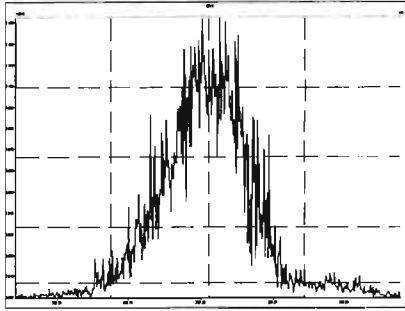
M 242.9856 R 12392



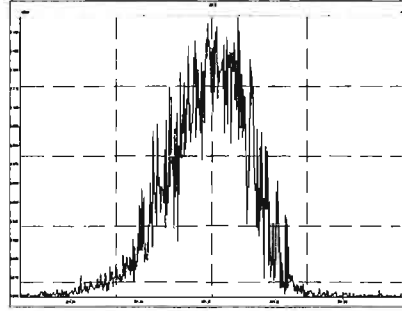
M 254.9856 R 12787



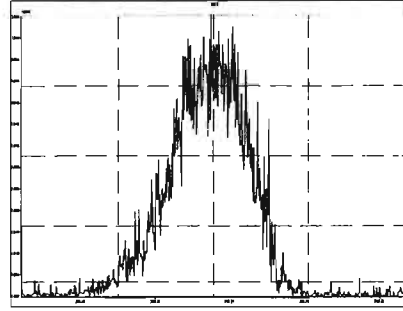
M 268.9824 R 11495



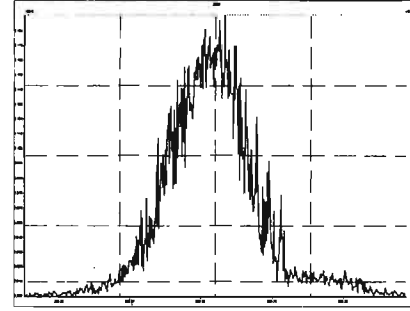
M 280.9824 R 11978



M 254.9856 R 12929

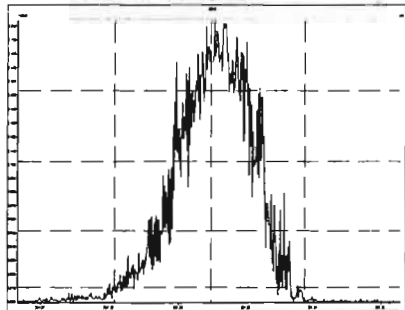


M 268.9824 R 11367

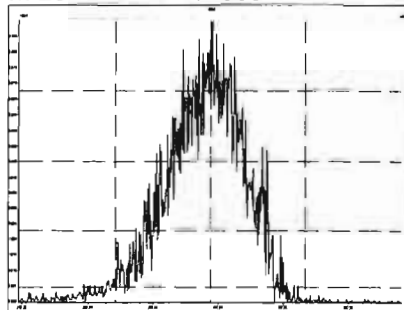


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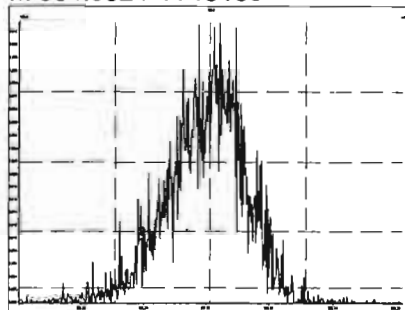
M 280.9824 R 13631



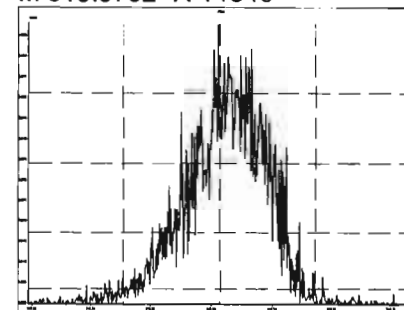
M 292.9824 R 12559



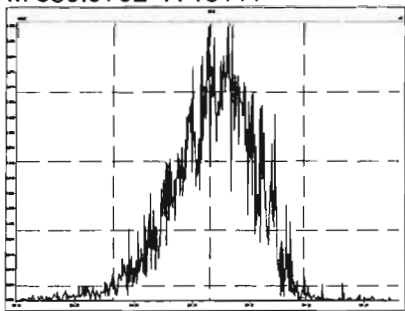
M 304.9824 R 13130



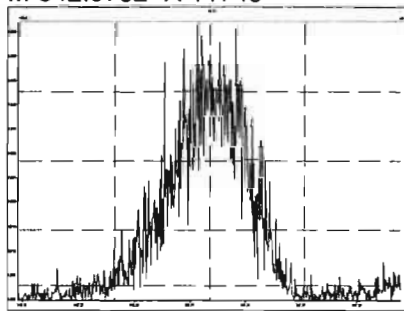
M 318.9792 R 14540



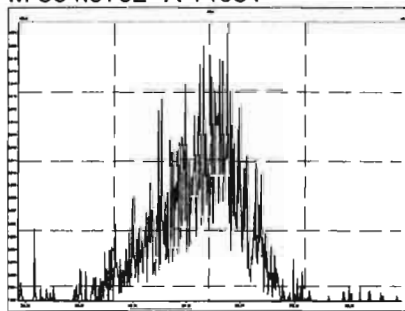
M 330.9792 R 13111



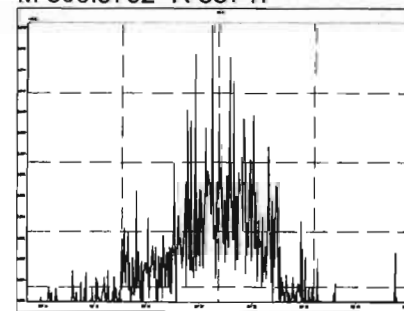
M 342.9792 R 11749



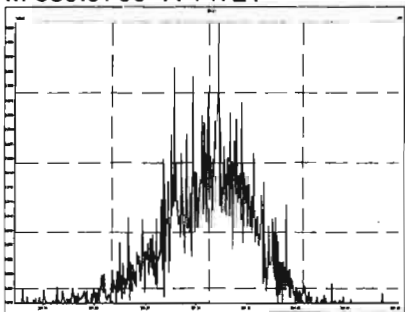
M 354.9792 R 14631



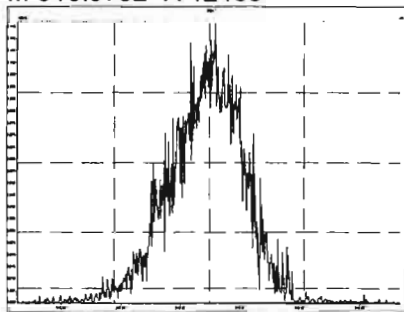
M 366.9792 R 33747



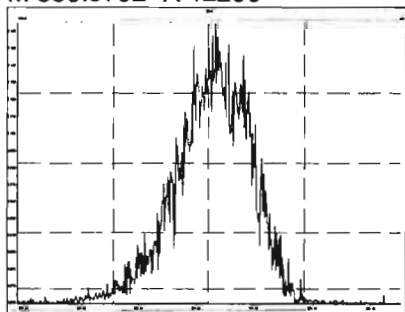
M 380.9760 R 14721



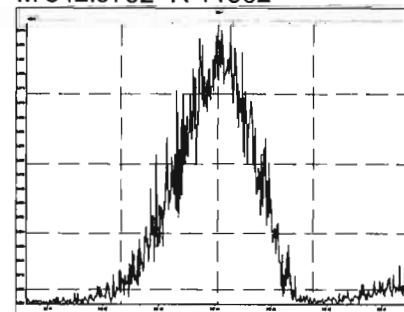
M 318.9792 R 12435



M 330.9792 R 12290

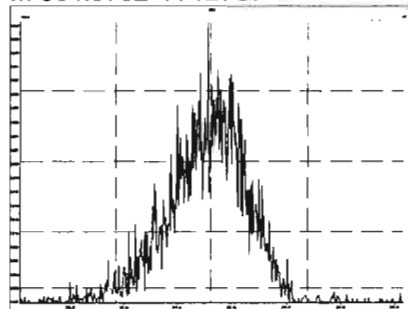


M 342.9792 R 11962

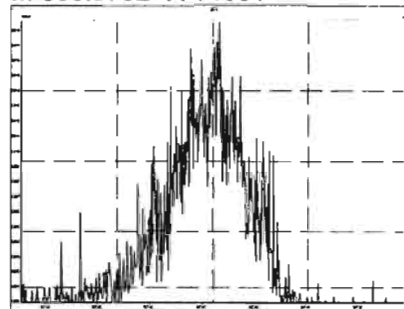


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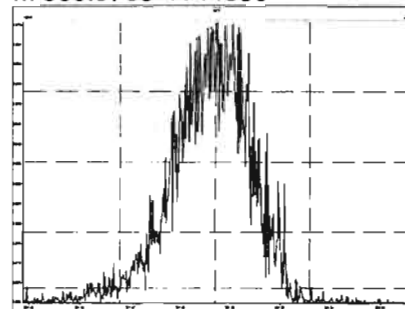
M 354.9792 R 12757



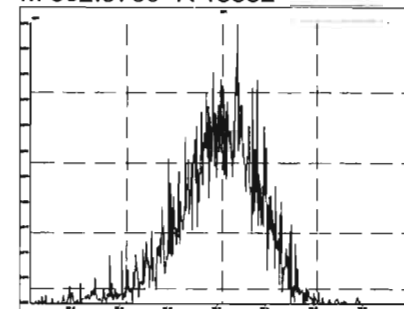
M 366.9792 R 14001



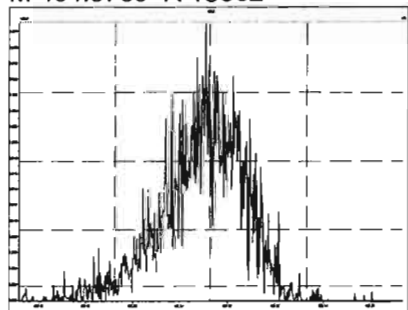
M 380.9760 R 11990



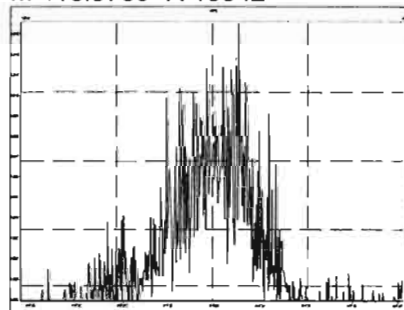
M 392.9760 R 13332



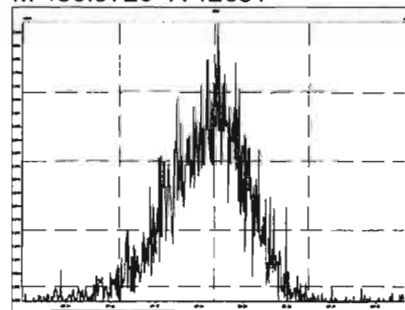
M 404.9760 R 13862



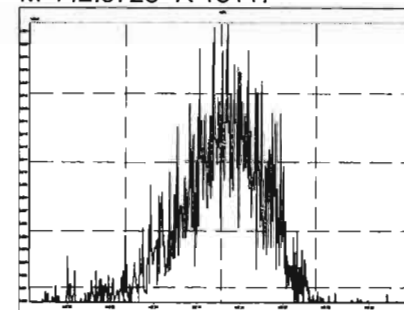
M 416.9760 R 19942



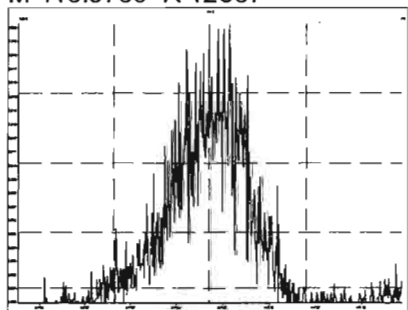
M 430.9728 R 12681



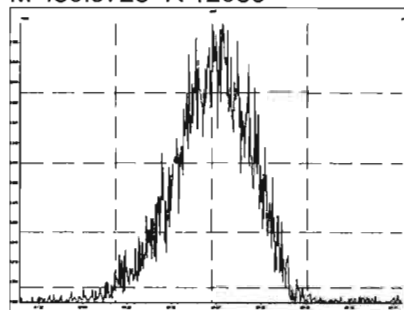
M 442.9728 R 13117



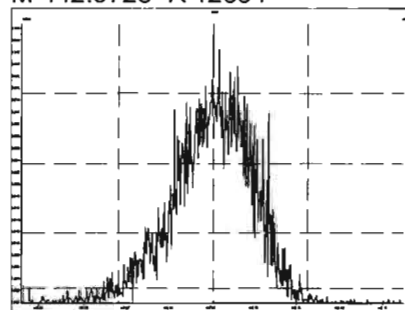
M 416.9760 R 12567



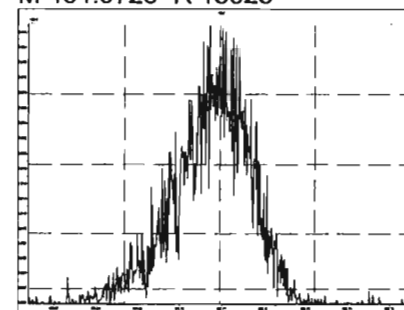
M 430.9728 R 12056



M 442.9728 R 12664

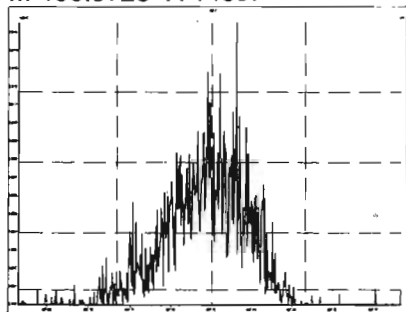


M 454.9728 R 13923

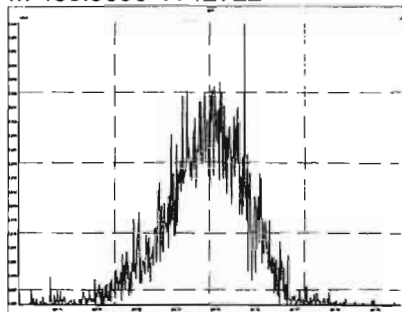


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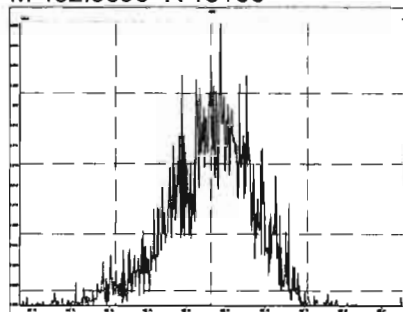
M 466.9728 R 14607



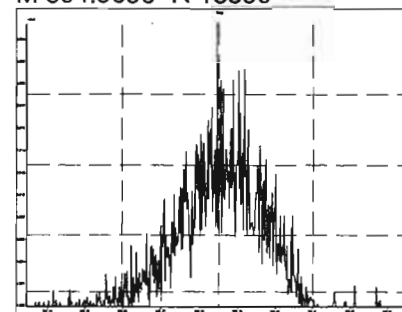
M 480.9696 R 12722



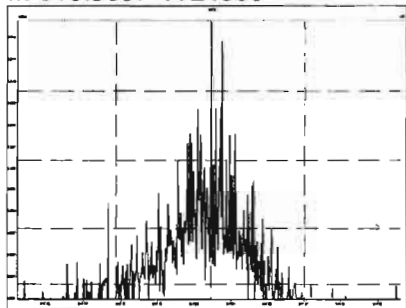
M 492.9696 R 13166



M 504.9696 R 13890



M 516.9697 R 21956



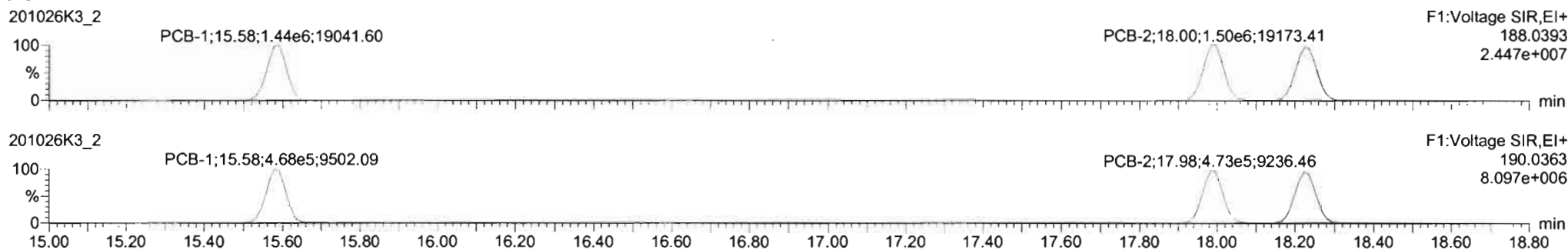
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

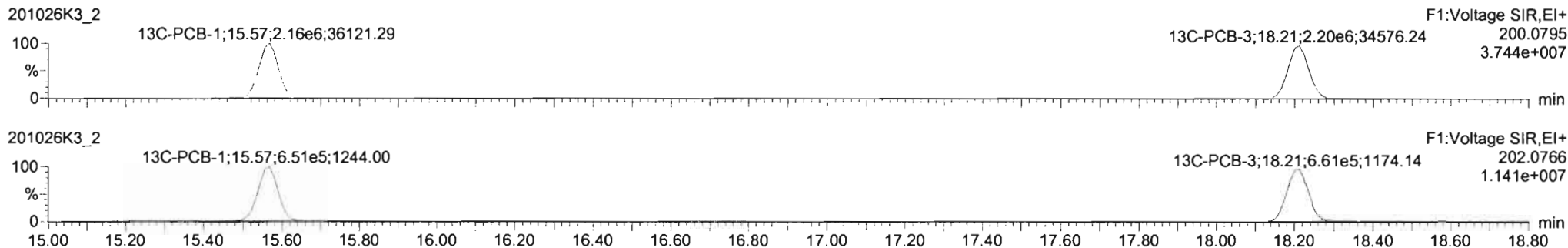
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Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

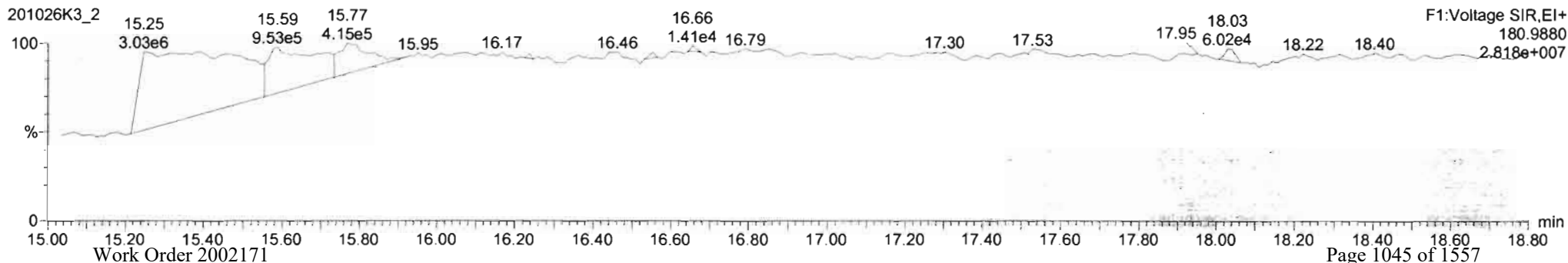
**PCB-1**



**13C-PCB-1**



**PFK1**

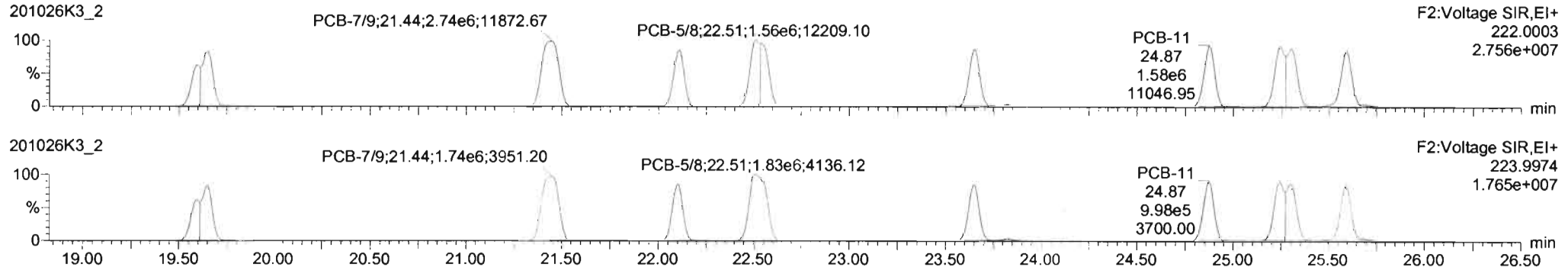


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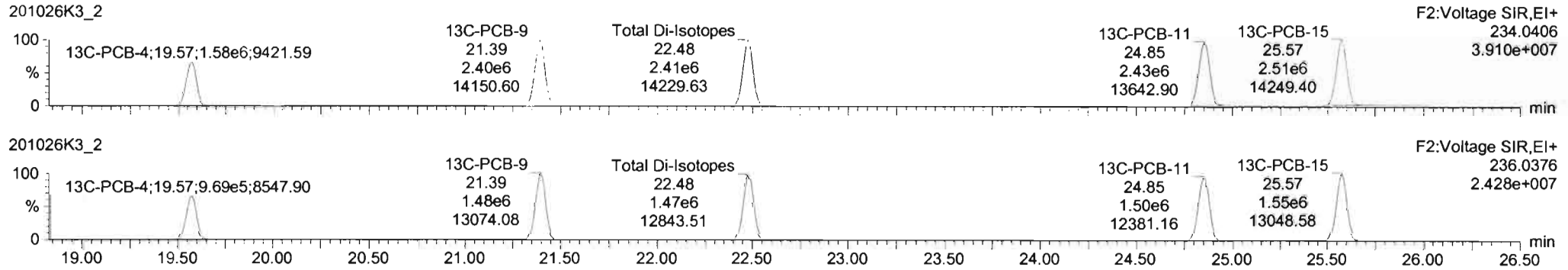
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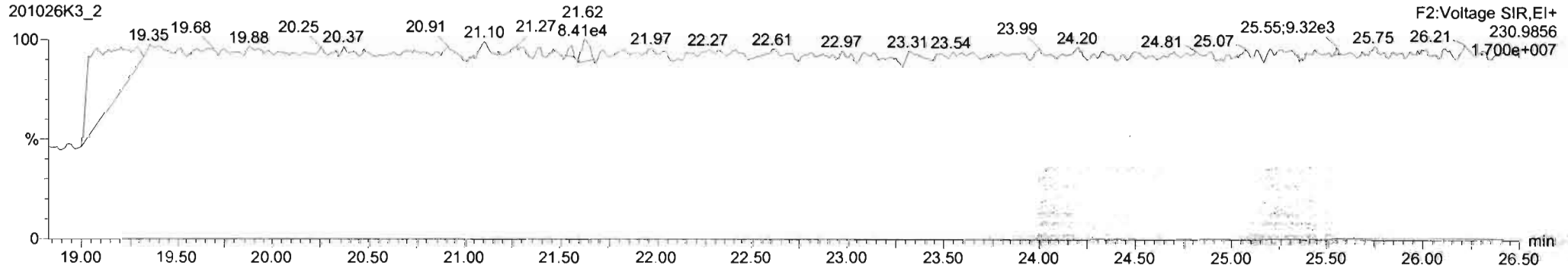
**PCB-4/10**



**13C-PCB-4**



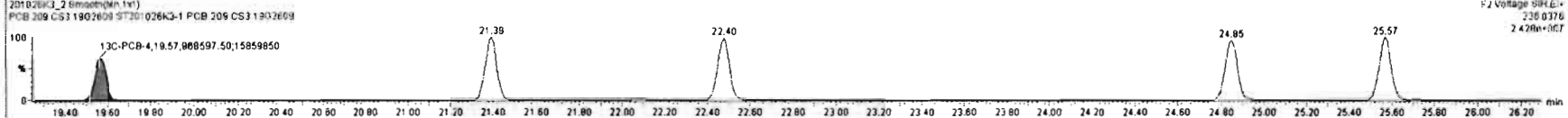
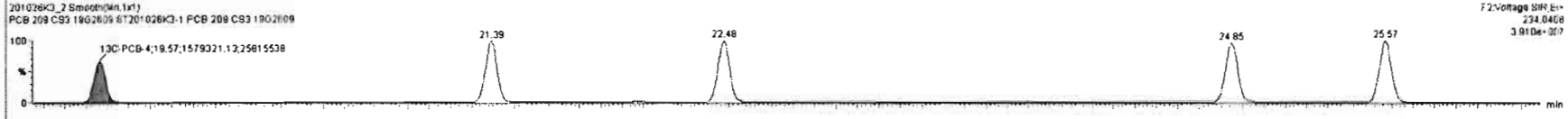
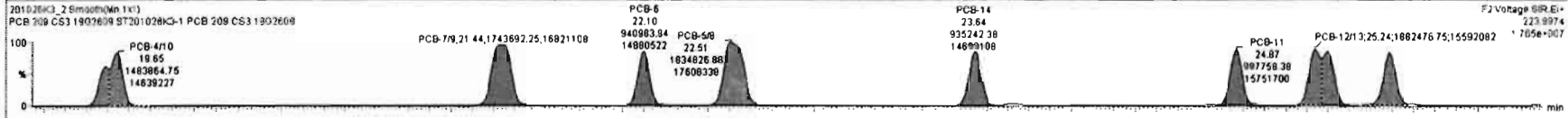
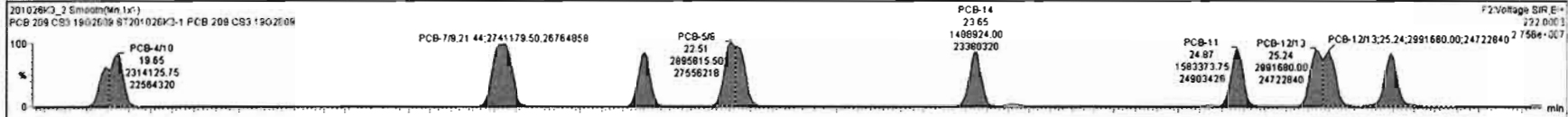
**PFK2a**



201026K3\_2 ST201026K3-1 PCB 209 CS3 1902609 - PCB 209 CS3 1902609

#	Name	Resp	RA	nly	RF	wtAvt	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
220	13C-PCB-79	7.30e5	0.82	NO	1.0689	1.000	37.84	37.84	1.030	1.030	NO	101.0	101	0.0434	
221	13C-PCB-178	8.63e5	0.46	NO	0.7665	1.000	45.83	45.93	0.988	0.988	NO	86.52	86.5	0.0419	
222	13C-PCB-79	7.30e5	0.82	NO	1.0821	1.000	37.84	37.84	0.968	0.968	NO	102.0	102	0.0442	
223	13C-PCB-178	8.63e5	0.46	NO	1.0508	1.000	45.84	45.93	0.923	0.923	NO	94.11	94.1	0.0452	
224	224	Total Mono-PCBs			1.1665	1.000	0.00		0.000	0.000	NO	174.9		0.0231	174.9
225	225	Total Di-PCBs			1.0537	1.000	0.00		0.000	0.000	NO	724.7		0.170	724.7
226	226	2nd Function Tri-PCBs			1.0807	1.000	0.00		0.000	0.000	NO	446.9		0.0804	446.9
227	227	3rd Function Tri-PCBs			0.9828	1.000	0.00		0.000	0.000	NO	936.7		0.620	936.7

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc
4	PCB-4/10	19.85	19.85	2.314e6	1.484e6	1.560	1.56	NO	119.43	119.43
5	PCB-7/9	21.45	21.44	2.741e6	1.744e6	1.560	1.57	NO	120.57	120.57
6	PCB-6	22.10	22.10	1.474e6	0.411e6	1.560	1.57	NO	60.898	60.898
7	PCB-5/8	22.51	22.51	2.886e6	1.835e6	1.560	1.58	NO	123.03	123.03
8	PCB-14	23.84	23.85	1.488e6	9.352e5	1.560	1.59	NO	80.887	80.887
9	PCB-11	24.87	24.87	1.583e6	9.878e5	1.560	1.58	NO	58.368	58.368



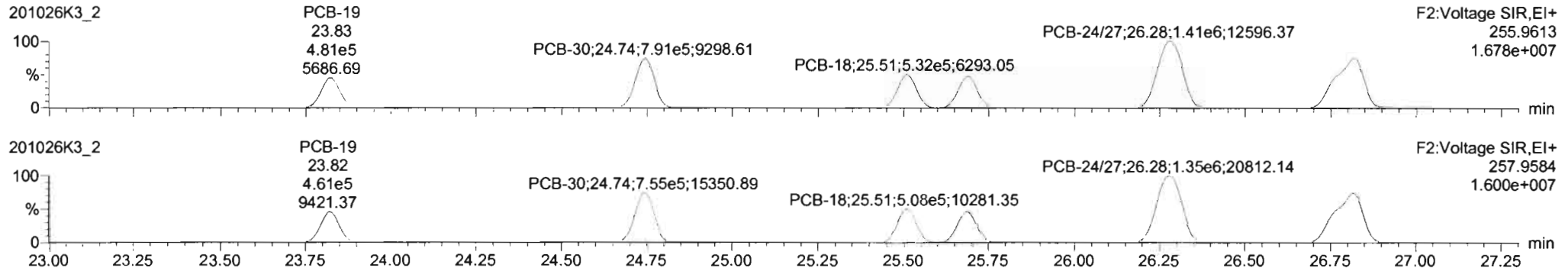
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Last Altered: Wednesday, October 28, 2020 08:48:48 Pacific Daylight Time

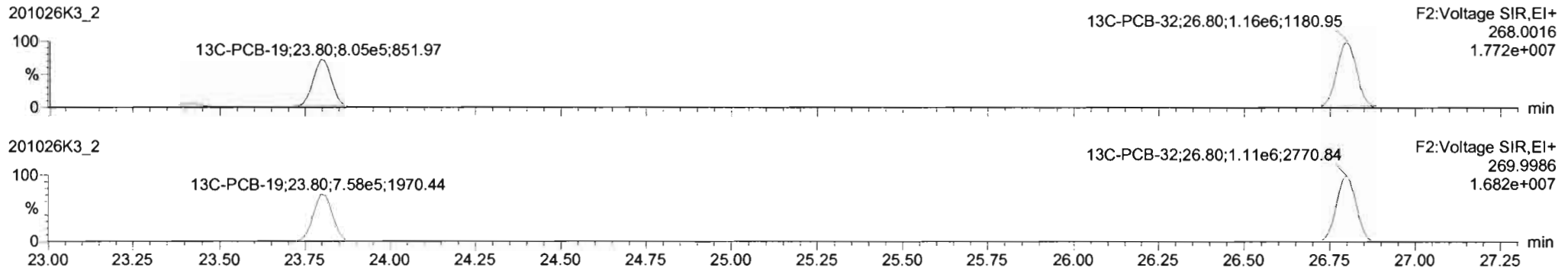
Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

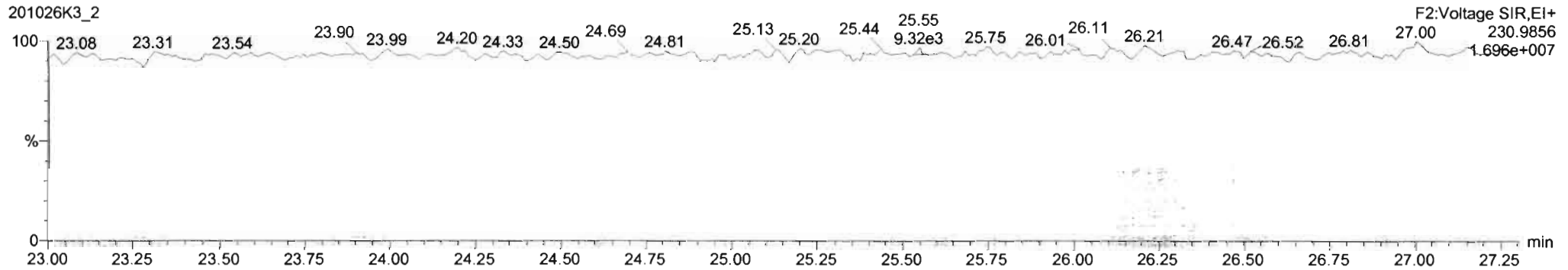
**PCB-19**



**13C-PCB-19**



**PFK2b**



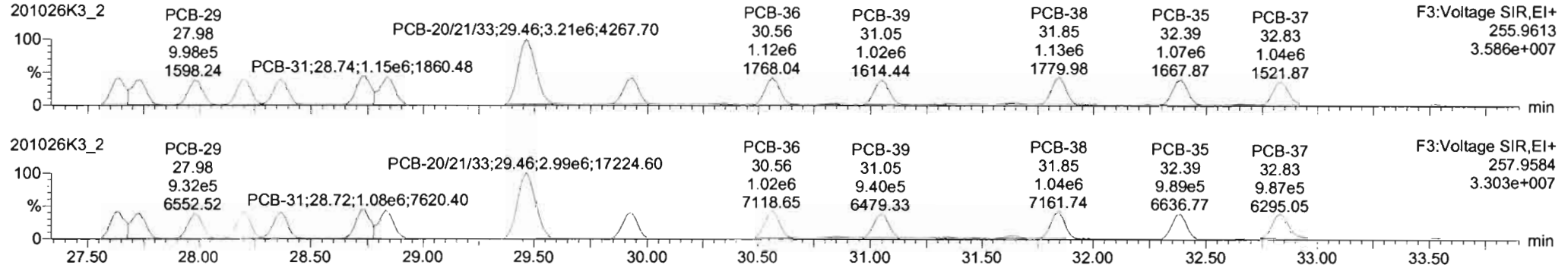


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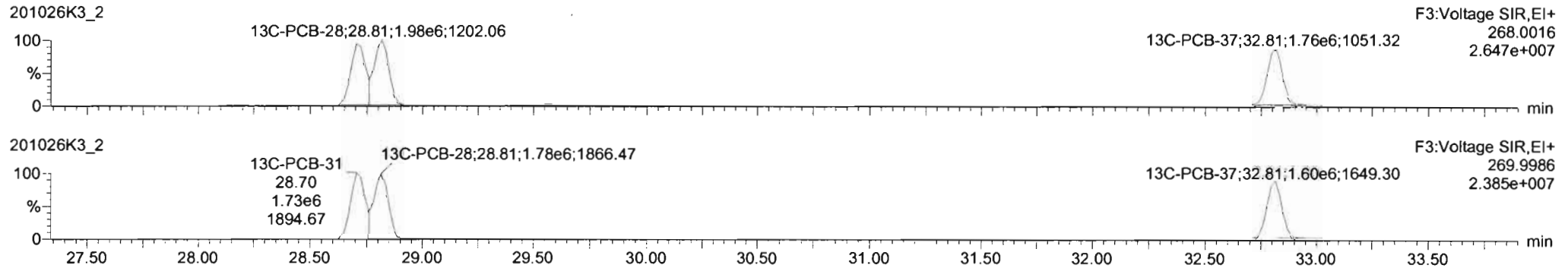
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

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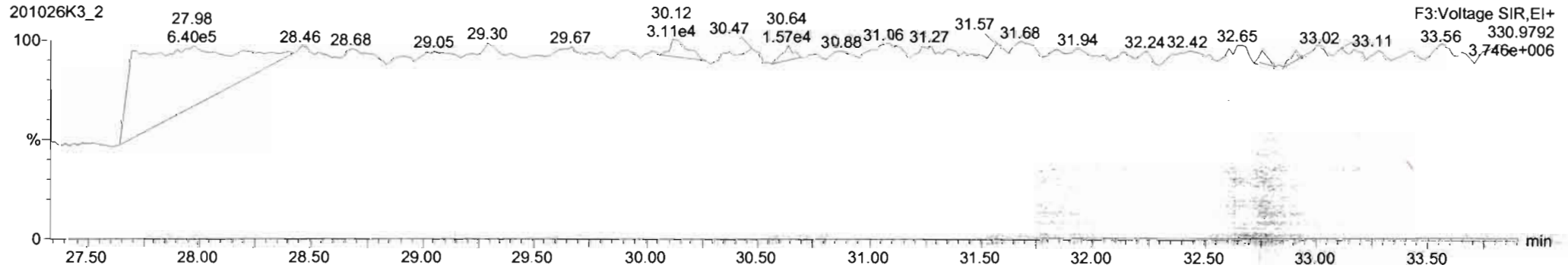
**PCB-34**



**13C-PCB-28**



**PFK3d**



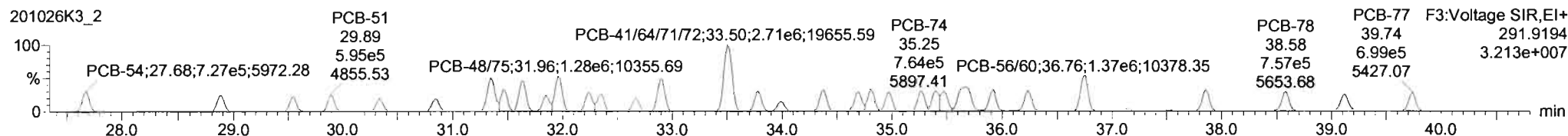
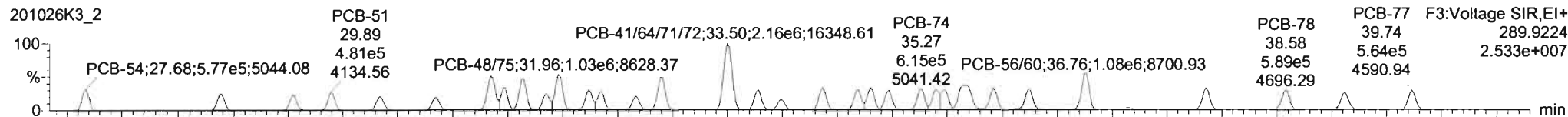
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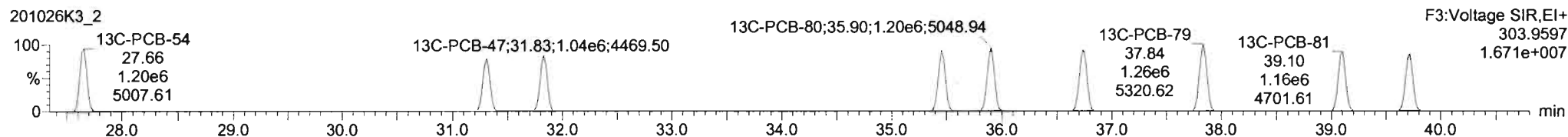
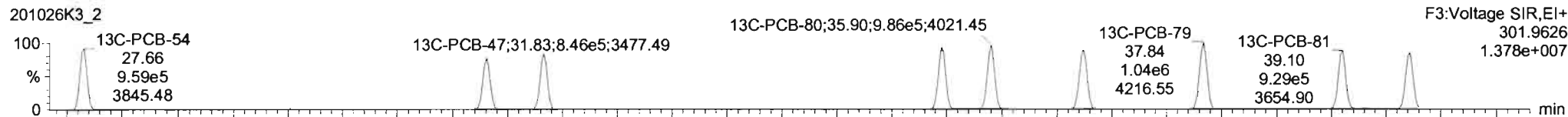
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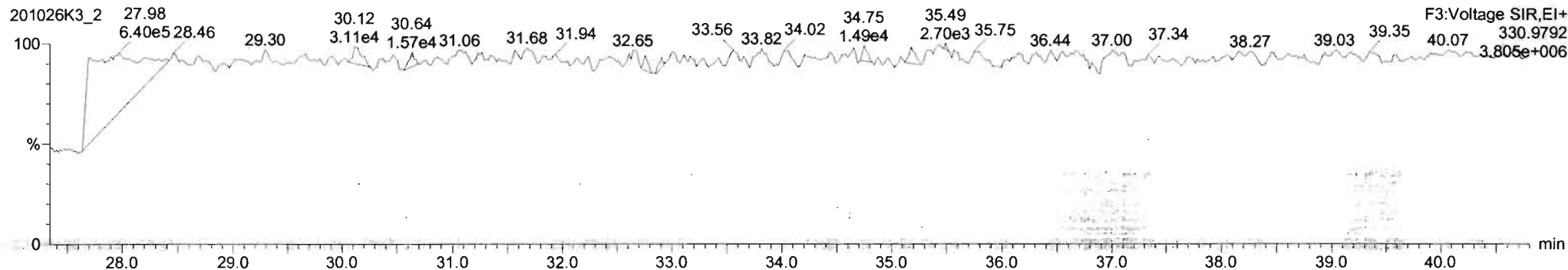
PCB-54



13C-PCB-54



PFK3a



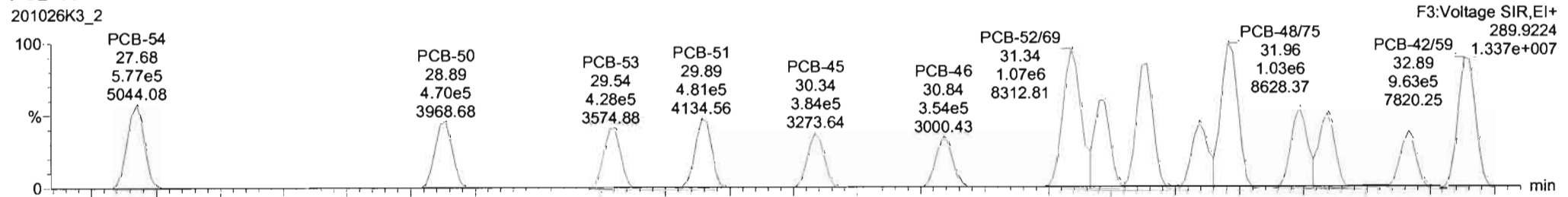
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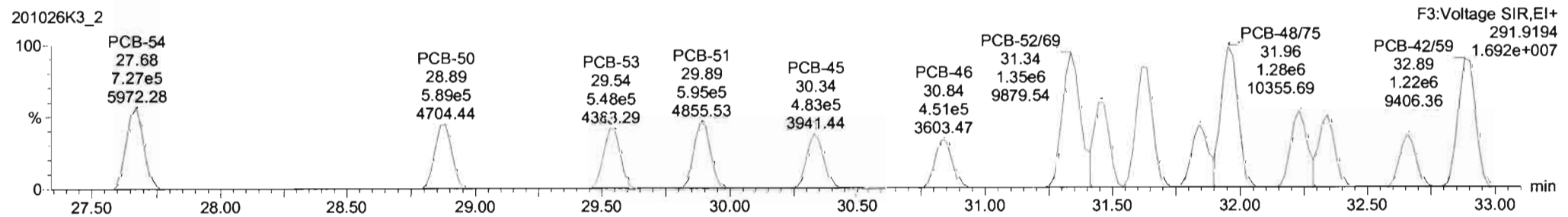
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**PCB-50**

201026K3\_2

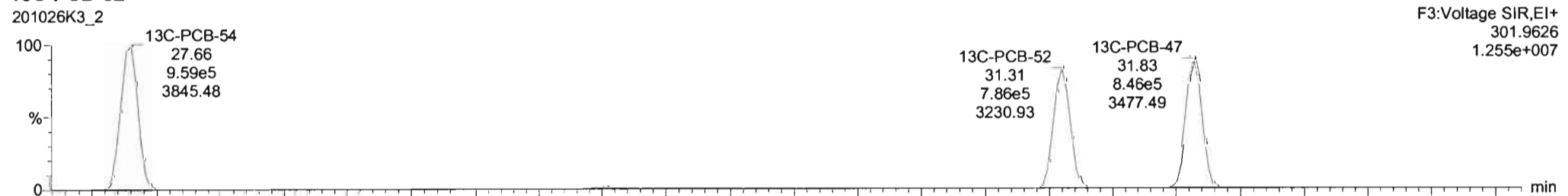


201026K3\_2

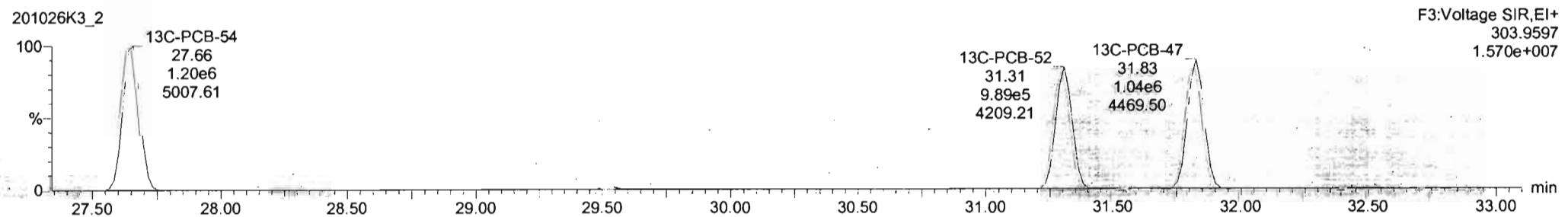


**13C-PCB-52**

201026K3\_2



201026K3\_2



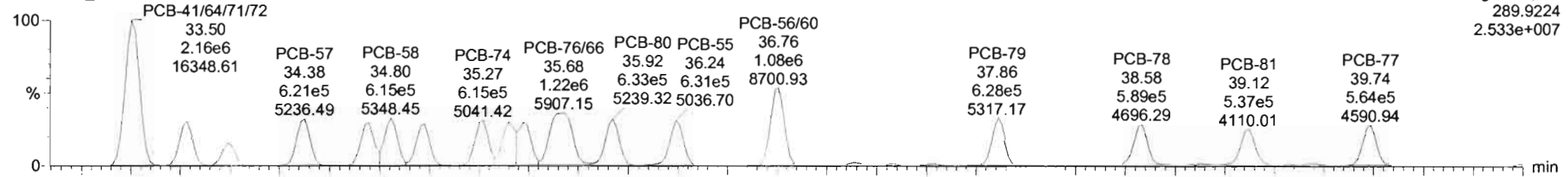
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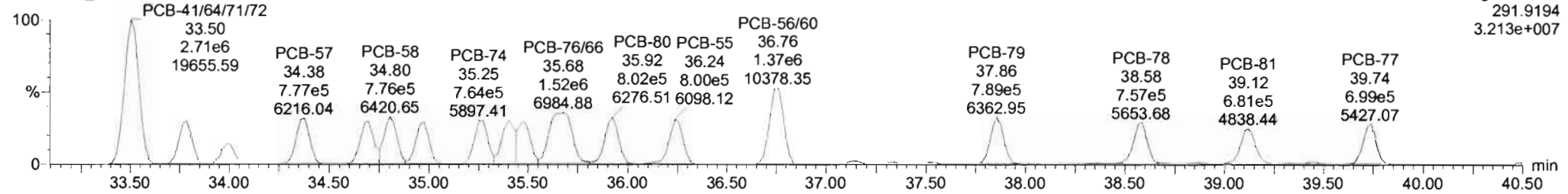
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**PCB-68**

201026K3\_2

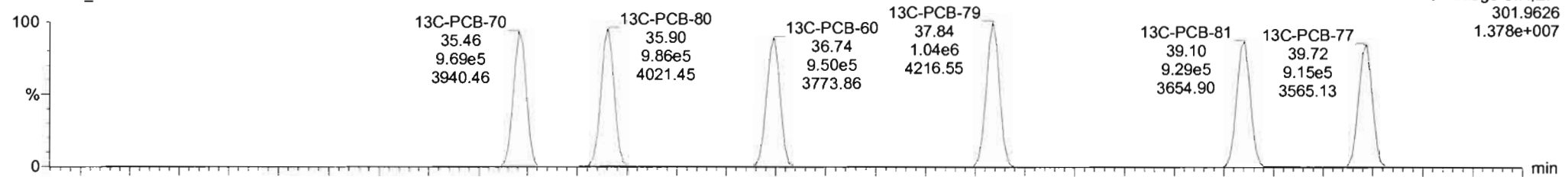


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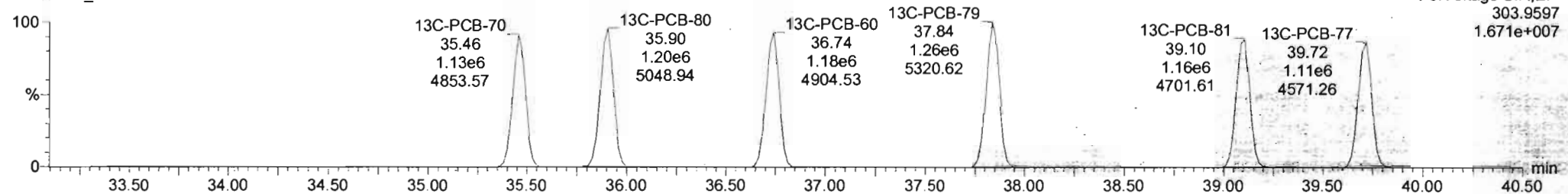


**13C-PCB-60**

201026K3\_2

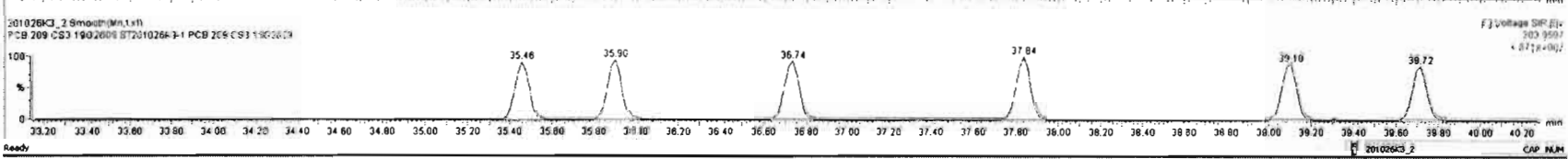
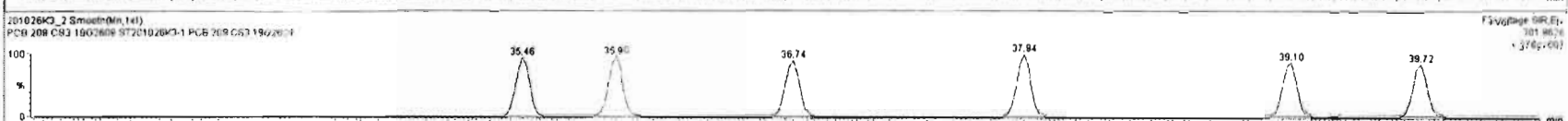
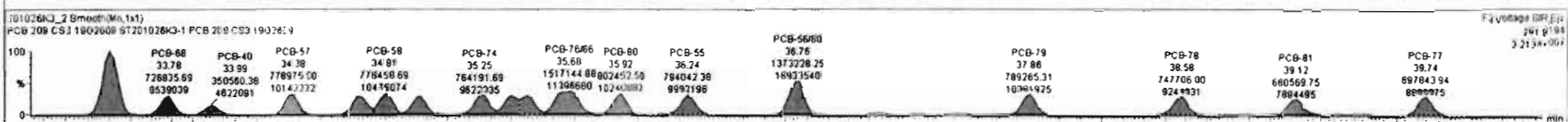
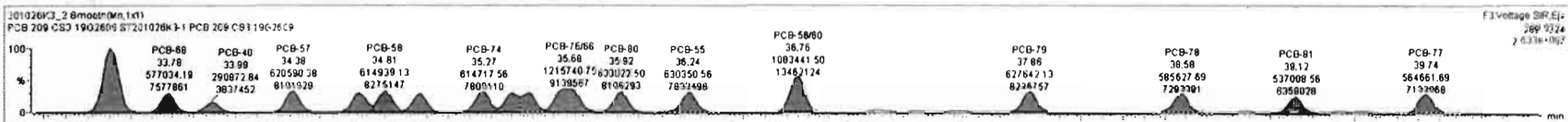


201026K3\_2



#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R.	RRT	RRT Fnd	Conc	%Rec	DL	EMPC
220	13C-PCB-79	2.30e5	0.82	NO	1.0699	1.000	37.84	37.84	1.000	1.030	NO	101.0	101	0.0434	
221	13C-PCB-178	8.63e5	0.48	NO	0.7665	1.000	45.93	45.93	0.989	0.988	NO	88.57	88.5	0.0415	
222	13C-PCB-79	2.30e5	0.82	NO	1.0871	1.000	37.84	37.84	0.988	0.968	NO	102.0	102	0.0447	
223	13C-PCB-178	8.63e5	0.48	NO	1.0598	1.000	45.94	45.93	0.973	0.923	NO	94.11	94.1	0.0453	
224	224 Total Mono-PCBs				1.1665	1.000	0.00	0.000			NO	174.9		0.0231	174.9
225	225 Total Di-PCBs				1.0537	1.000	0.00	0.000			NO	724.7		0.170	724.7
226	226 2nd Function Tri-PCBs				1.0807	1.000	0.00	0.000			NO	446.9		0.0904	446.9
227	227 3rd Function Tri-PCBs				0.9828	1.000	0.00	0.000			NO	938.7		0.620	938.7

#	Name	Pred RT	RT	nt Resp	m2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	32 PCB-54	27.68	27.68	5.769e5	7.266e5	0.770	0.79	NO	56.008	56.008
2	33 PCB-50	28.89	28.89	4.700e5	5.889e5	0.770	0.80	NO	55.853	55.853
3	34 PCB-53	29.55	29.54	4.283e5	5.478e5	0.770	0.78	NO	55.180	55.180
4	35 PCB-51	29.80	29.89	4.808e5	5.950e5	0.770	0.81	NO	56.907	56.907
5	36 PCB-45	30.34	30.34	3.837e5	4.826e5	0.770	0.80	NO	58.868	58.888
6	37 PCB-46	30.85	30.84	3.541e5	4.506e5	0.770	0.79	NO	54.580	54.580

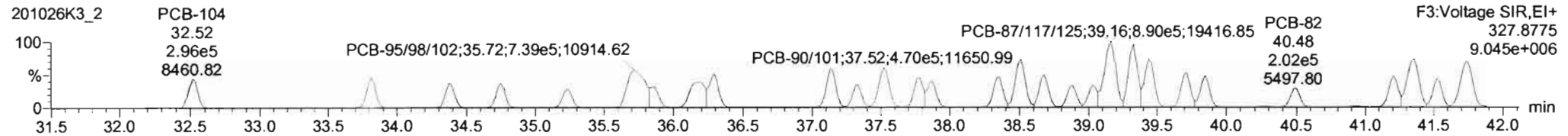
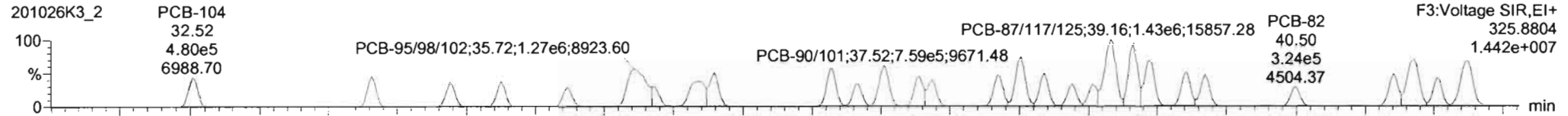


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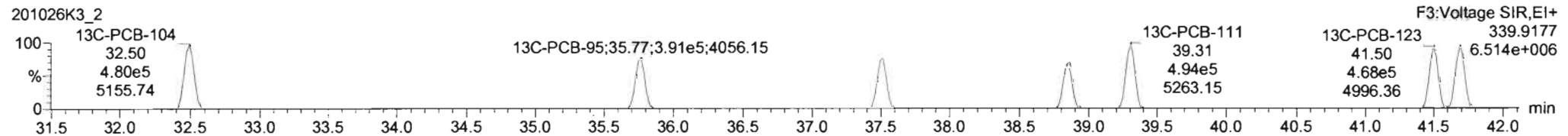
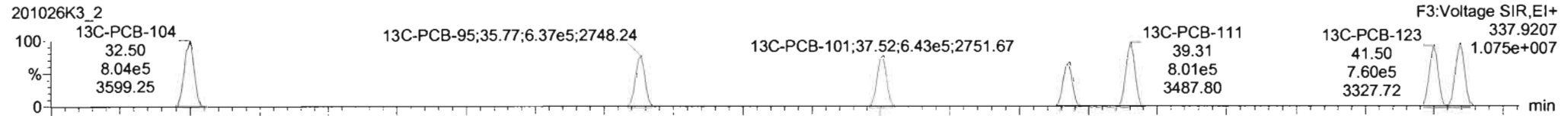
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

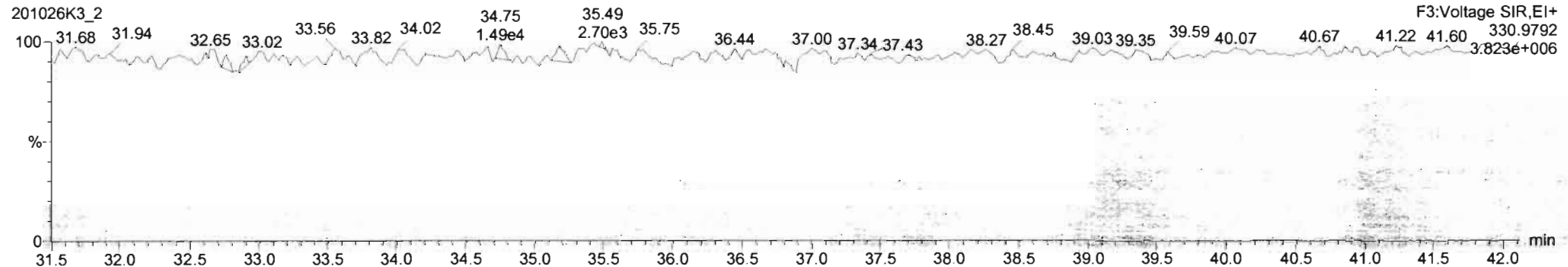
**PCB-104**



**13C-PCB-104**



**PFK3b**



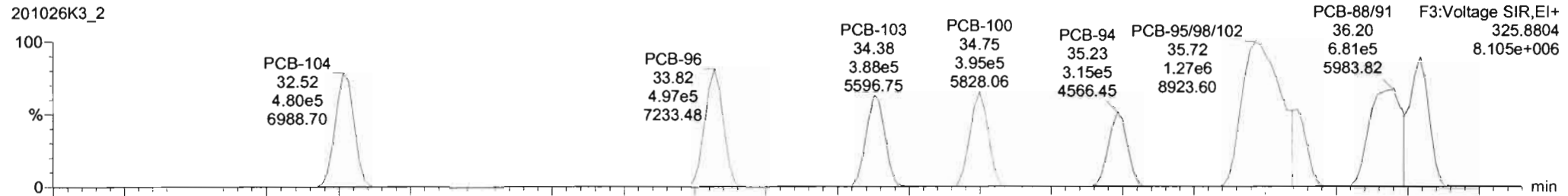
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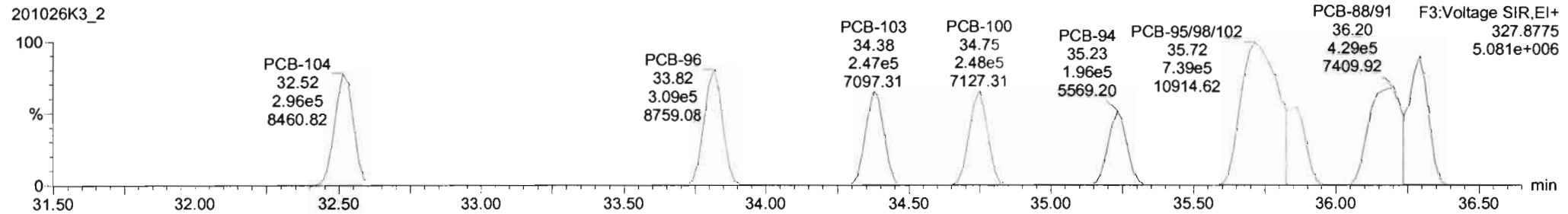
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**PCB-96**

201026K3\_2

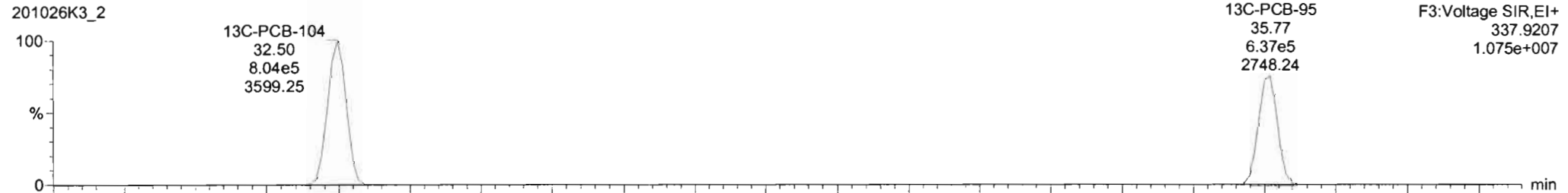


201026K3\_2

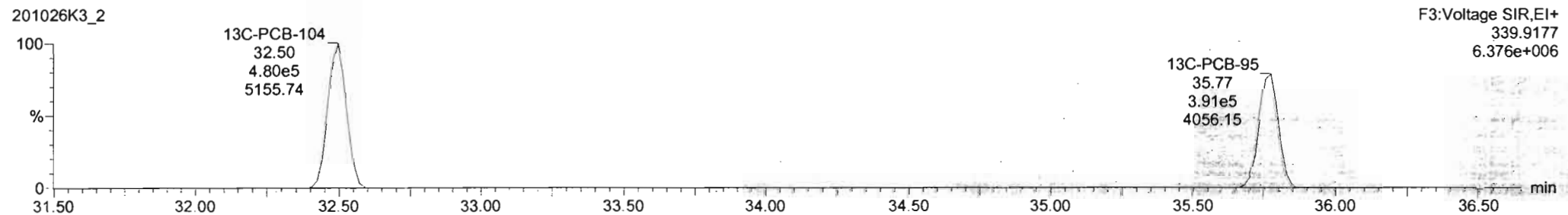


**13C-PCB-95**

201026K3\_2

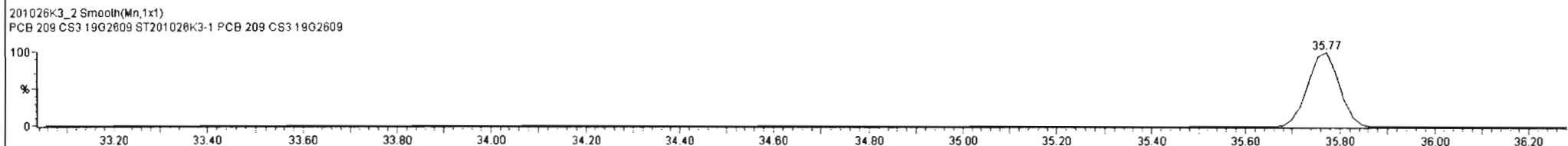
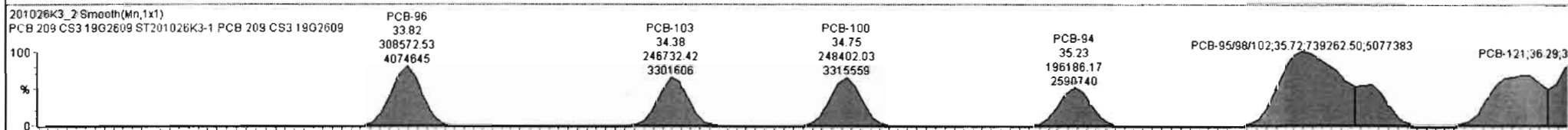
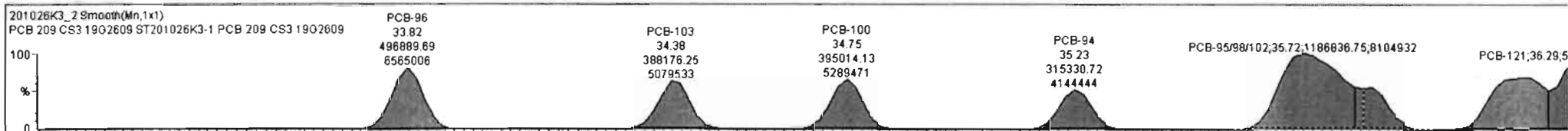


201026K3\_2



#	Name	Resp	RA	n/y	RRF	wUvol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
229	229 3rd Function Penta-PCBs				1.3157	1.000	0.00		0.000		NO	2160		0.467	2160
230	230 4th Function Penta-PCBs				1.0735	1.000	0.00		0.000		NO	284.7		0.0915	284.7
231	231 3rd Function Hexa-PCBs				0.9505	1.000	0.00		0.000		NO	743.3		0.163	743.3
232	232 4th Function Hexa-PCBs				1.0316	1.000	0.00		0.000		NO	1522		0.742	1522
233	233 Total Hepte-PCBs				1.3551	1.000	0.00		0.000		NO	1294		0.769	1294
234	234 4th Function Octa-PCBs				1.0008	1.000	0.00		0.000		NO	469.6		0.124	469.6
235	235 5th Function Octa-PCBs				1.1499	1.000	0.00		0.000		NO	165.8		0.0646	165.8
236	236 Total Nona-PCBs				0.9523	1.000	0.00		0.000		NO	162.3		0.0851	162.3

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	64 PCB-104	32.52	32.52	4.801e5	2.962e5	1.560	1.62	NO	53.857	53.857
2	65 PCB-96	33.82	33.82	4.969e5	3.086e5	1.560	1.61	NO	54.344	54.344
3	66 PCB-103	34.38	34.38	3.882e5	2.467e5	1.560	1.57	NO	52.779	52.779
4	67 PCB-100	34.75	34.75	3.950e5	2.484e5	1.560	1.59	NO	52.528	52.528
5	68 PCB-94	35.25	35.23	3.153e5	1.962e5	1.560	1.61	NO	52.451	52.451
6	69 PCB-95/98/102	35.72	35.72	1.187e6	7.393e5	1.560	1.61	NO	155.59	155.59





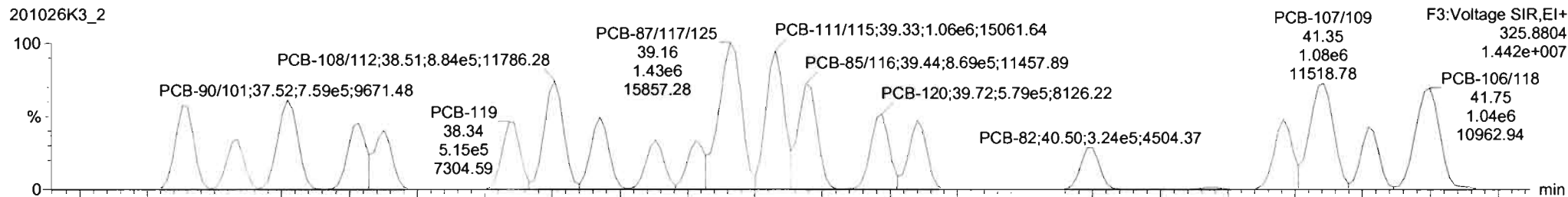
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

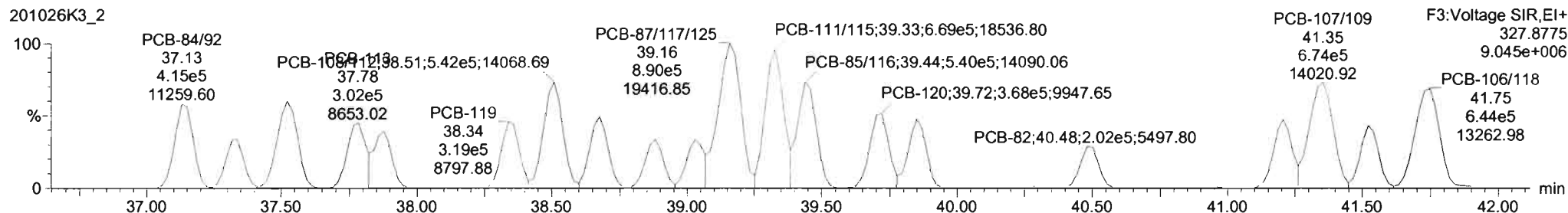
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PCB-119

201026K3\_2

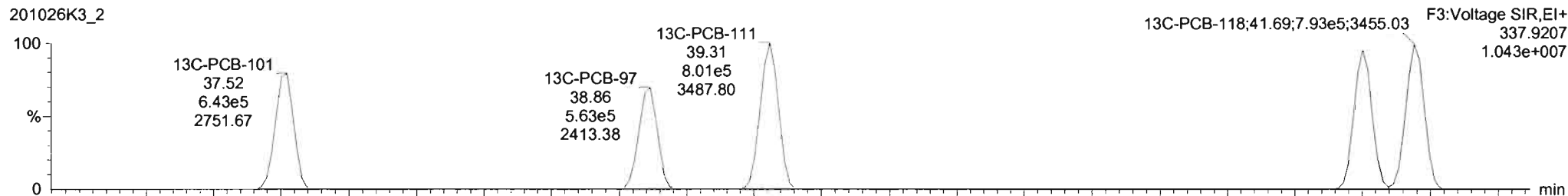


201026K3\_2

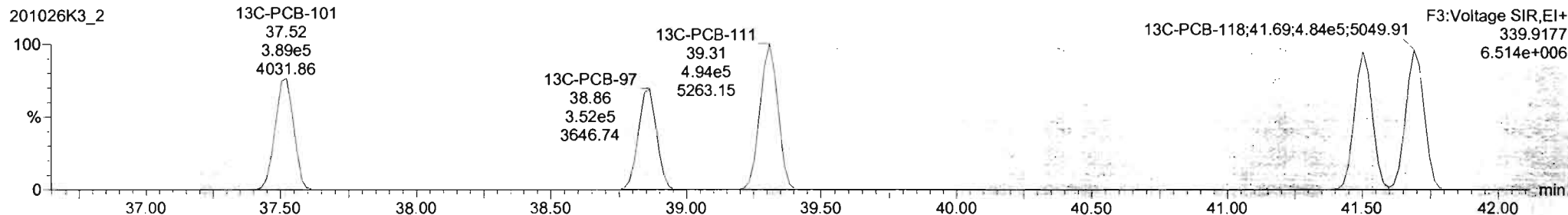


13C-PCB-111

201026K3\_2

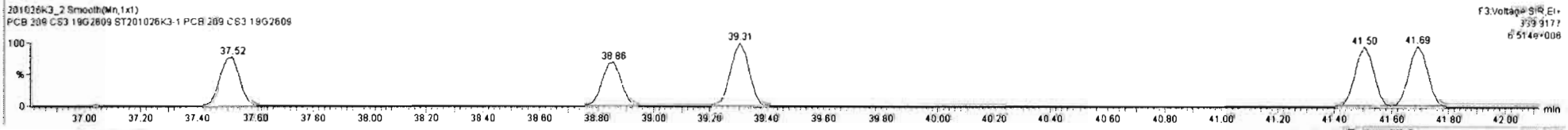
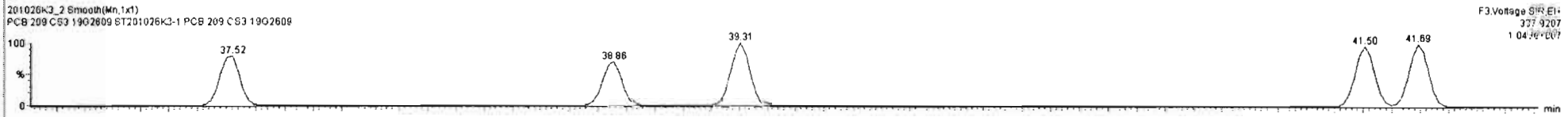
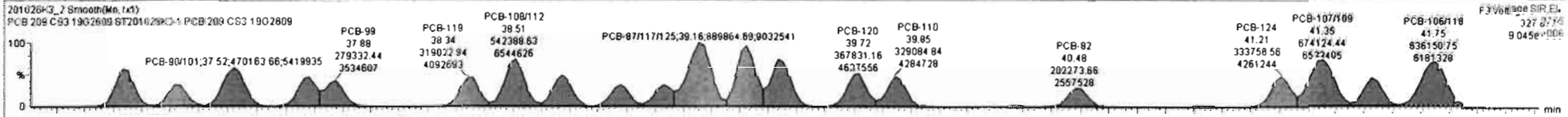
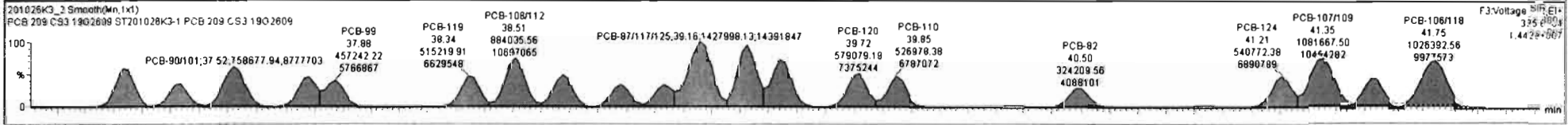


201026K3\_2



#	Name	Resp	RA	n/y	RRF	wAwt	Pred RT	RT	Pred.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
229	2nd Function Penta-PCBs				1.3157	1.000	0.00		0.000		NO	2160		0.467	2160
230	4th Function Penta-PCBs				1.0735	1.000	0.00		0.000		NO	264.7		0.0915	264.7
231	2nd Function Hexa-PCBs				0.9505	1.000	0.00		0.000		NO	743.3		0.163	743.3
232	4th Function Hexa-PCBs				1.0316	1.000	0.00		0.000		NO	1522		0.742	1522
233	Total Hexa-PCBs				1.3551	1.000	0.00		0.000		NO	1294		0.769	1294
234	4th Function Octa-PCBs				1.0008	1.000	0.00		0.000		NO	469.6		0.124	469.6
235	5th Function Octa-PCBs				1.1499	1.000	0.00		0.000		NO	165.8		0.0646	165.8
236	Total Nona-PCBs				0.9523	1.000	0.00		0.000		NO	162.3		0.0851	162.3

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
64	PCB-104	32.52	32.52	4.801e5	2.962e5	1.560	1.62	NO	53.857	53.857
65	PCB-96	33.82	33.82	4.969e5	3.066e5	1.580	1.61	NO	54.344	54.344
66	PCB-103	34.38	34.38	3.882e5	2.467e5	1.560	1.57	NO	52.779	52.779
67	PCB-100	34.75	34.75	3.950e5	2.484e5	1.560	1.59	NO	52.528	52.528
68	PCB-94	35.25	35.23	3.153e5	1.962e5	1.580	1.61	NO	52.451	52.451
69	PCB-95/98/102	35.72	35.72	1.187e6	7.383e5	1.560	1.61	NO	155.59	155.59



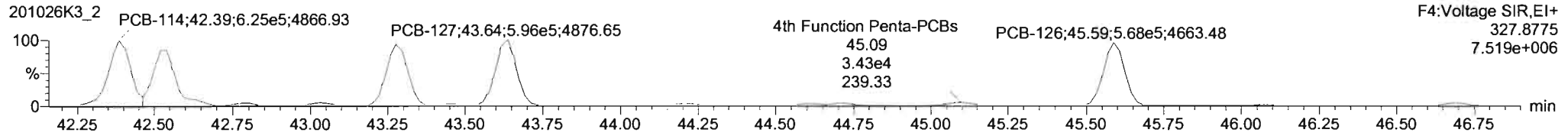
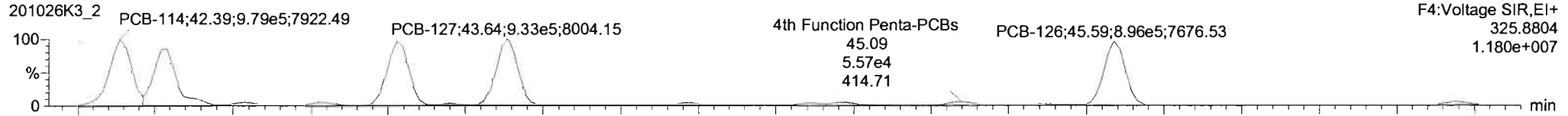
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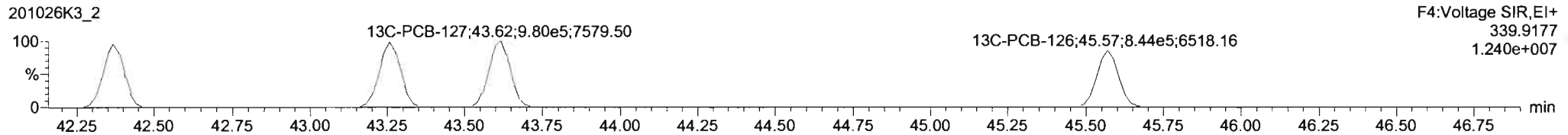
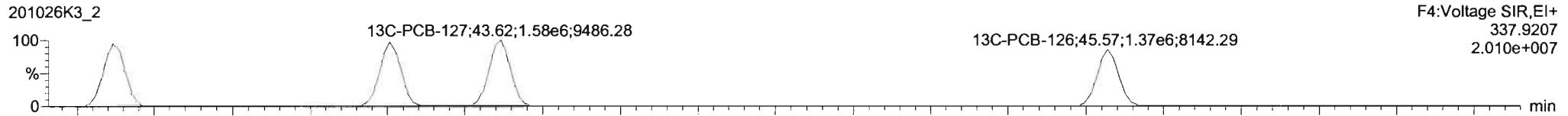
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Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

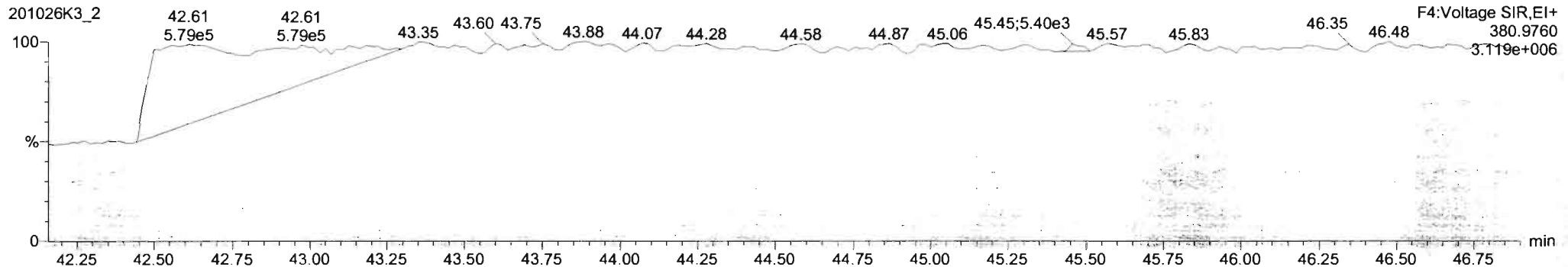
**PCB-114**



**13C-PCB-114**

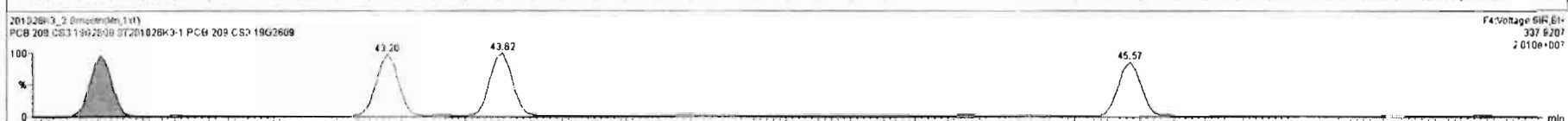
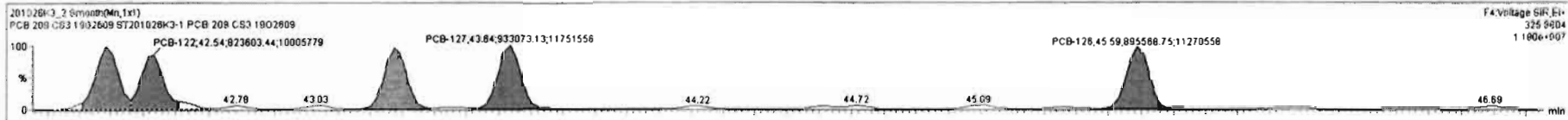


**PFK4a**



#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred.R.	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
229	229 3rd Function Penta-PCBs				1.3157	1.000	0.00		0.000		NO	2160		0.467	2160
230	230 4th Function Penta-PCBs				1.0725	1.000	0.00		0.000		NO	284.7		0.0215	284.7
231	231 3rd Function Hexa-PCBs				0.9605	1.000	0.00		0.000		NO	743.3		0.163	743.3
232	232 4th Function Hexa-PCBs				1.0316	1.000	0.00		0.000		NO	1522		0.742	1522
233	233 Total Hepta-PCBs				1.3551	1.000	0.00		0.000		NO	1294		0.759	1294
234	234 4th Function Octa-PCBs				1.0000	1.000	0.00		0.000		NO	458.8		0.174	458.8
235	235 5th Function Octa-PCBs				1.1498	1.000	0.00		0.000		NO	165.8		0.0846	165.8
236	236 Total Nona-PCBs				0.9523	1.000	0.00		0.000		NO	162.3		0.0861	162.3

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
93	PCB-114	42.39	42.39	9.526e5	8.054e5	1.550	1.57	NO	56.446	56.446
94	PCB-122	42.54	42.54	8.236e5	5.246e5	1.550	1.57	NO	59.040	59.040
95	PCB-105	43.27	43.28	9.145e5	5.830e5	1.550	1.62	NO	56.589	56.589
96	PCB-127	43.83	43.64	9.331e5	5.860e5	1.580	1.57	NO	56.392	56.392
97	PCB-126	45.59	45.58	8.956e5	5.877e5	1.580	1.58	NO	56.255	56.255



Dataset: Untitled

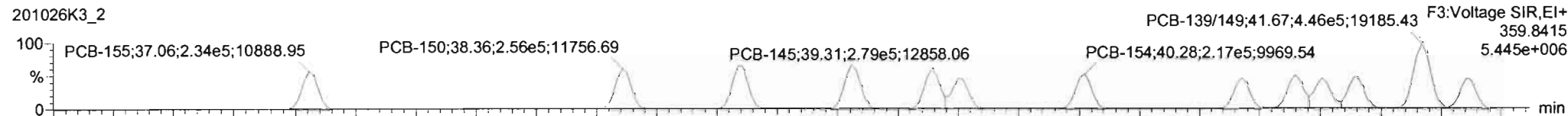
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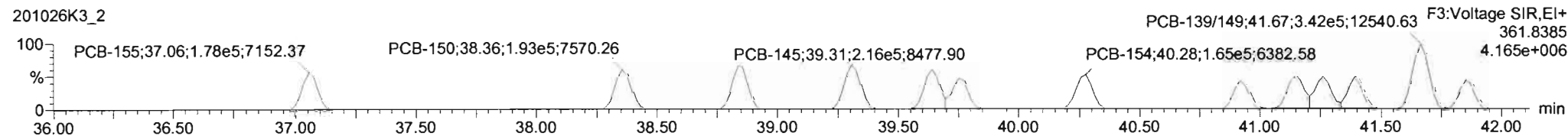
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**PCB-155**

201026K3\_2

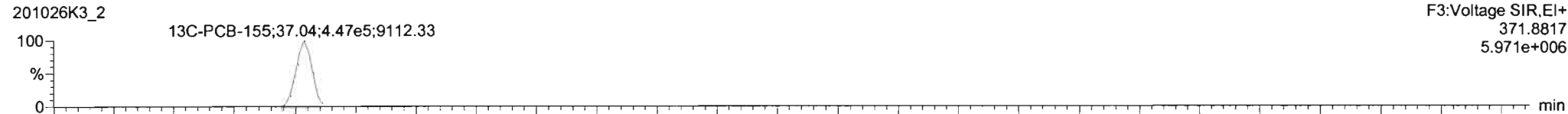


201026K3\_2

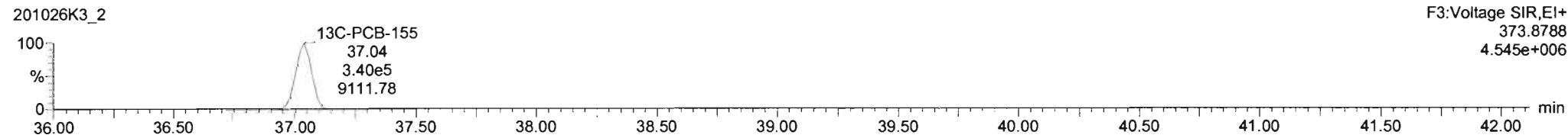


**13C-PCB-155**

201026K3\_2

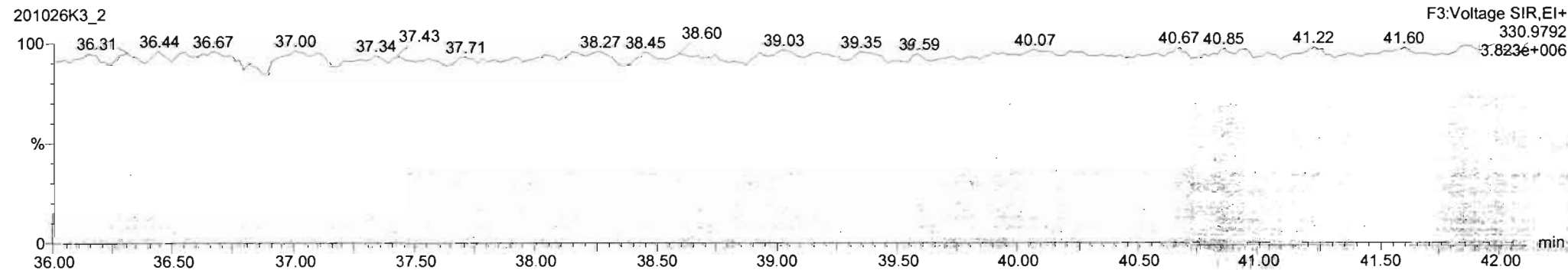


201026K3\_2



**PFK3c**

201026K3\_2

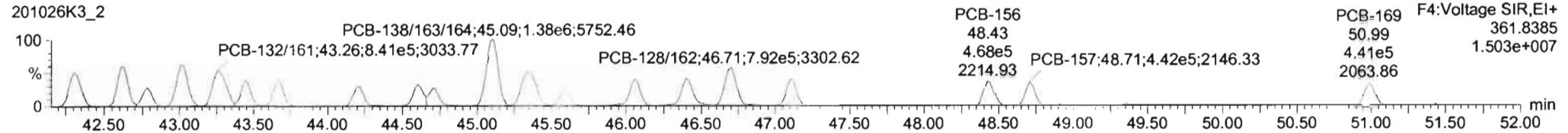
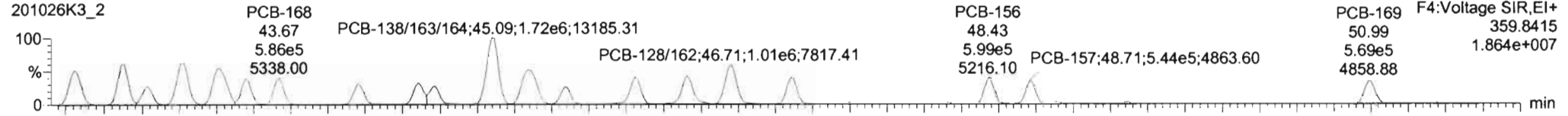


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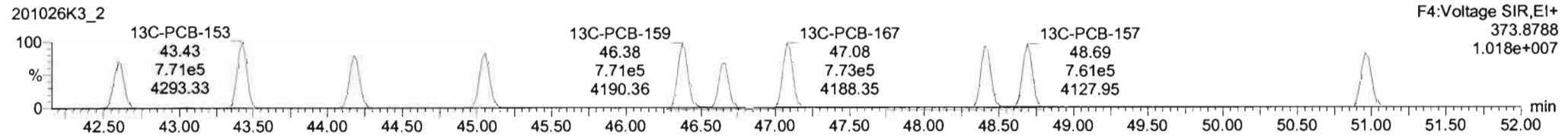
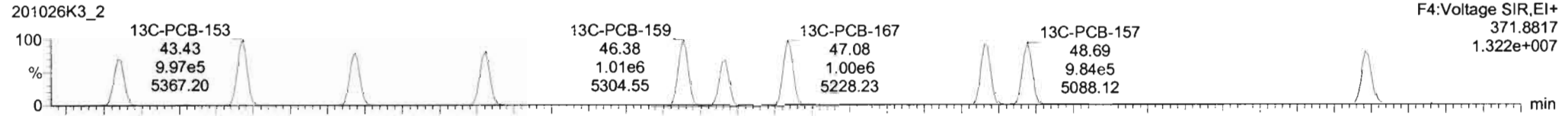
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

Name: 201026K3\_2, Date: 27-Oct-2020, Time: 11:56:35, ID: ST201026K3-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

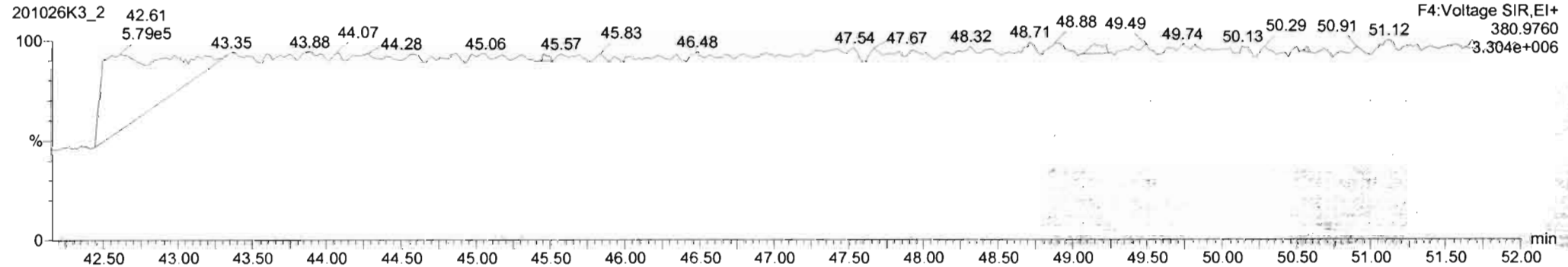
**PCB-134/143**



**13C-PCB-153**

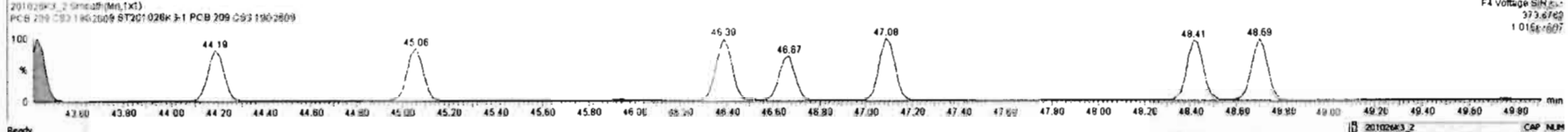
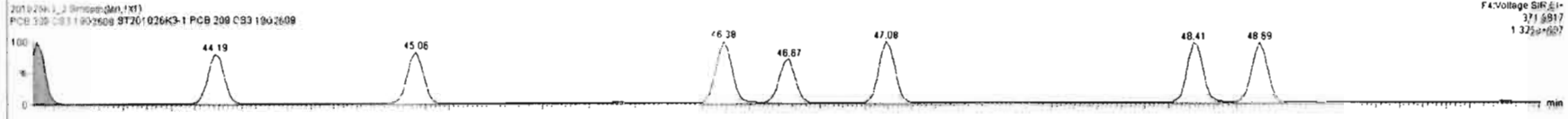
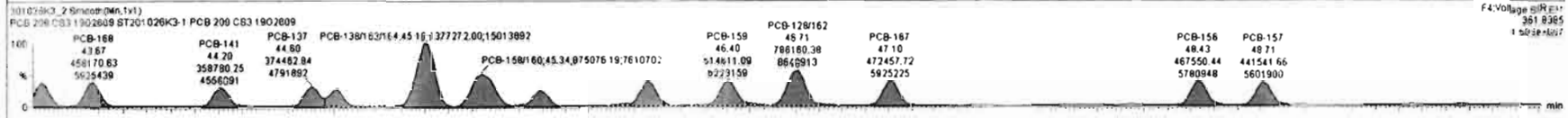
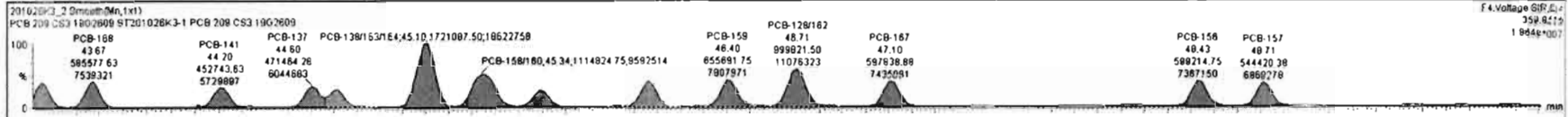


**PFK4b**



#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred R	RR1	RR1 Fail	Conc	%Rec	DL	EMPC
229	3rd Function Penta-PCBs				1.3157	1.000	0.00	0.000			NO	2160	0.467	2160	
230	4th Function Penta-PCBs				1.0735	1.000	0.00	0.000			NO	284.7	0.8915	284.7	
231	3rd Function Hexa-PCBs				0.9505	1.000	0.00	0.000			NO	743.3	0.183	743.3	
232	4th Function Hexa-PCBs				1.0318	1.000	0.00	0.000			NO	1522	0.742	1522	
233	Total Hepta-PCBs				1.3951	1.000	0.00	0.000			NO	1294	0.769	1294	
234	4th Function Octa-PCBs				1.0008	1.000	0.00	0.000			NO	469.8	0.124	469.8	
235	5th Function Octa-PCBs				1.1499	1.000	0.00	0.000			NO	165.8	0.0646	165.8	
236	Total Nona-PCBs				0.9523	1.000	0.00	0.000			NO	162.3	0.0851	162.3	

#	Name	Pred RT	RT	Int Resp	Int Resp	* Ratio (Pred)	RA	nly	EMPC	Conc.
1	111 PCB-134/143	42.31	42.31	8.568e5	6.792e5	1.240	1.26	NO	114.47	114.47
2	112 PCB-131/133	42.83	42.83	9.074e5	7.160e5	1.240	1.27	NO	111.86	111.86
3	113 PCB-142	42.79	42.78	4.962e5	3.186e5	1.240	1.27	NO	54.360	54.360
4	114 PCB-146/165	43.03	43.01	1.072e5	8.276e5	1.240	1.30	NO	105.70	105.70
5	115 PCB-132/161	43.28	43.28	1.086e5	8.413e5	1.240	1.30	NO	106.94	106.94
6	116 PCB-153	43.44	43.45	5.762e5	4.441e5	1.240	1.30	NO	53.901	53.901



Dataset: Untitled

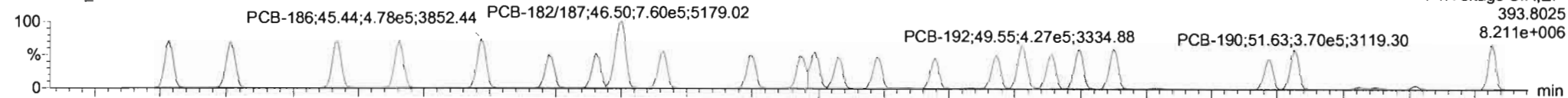
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

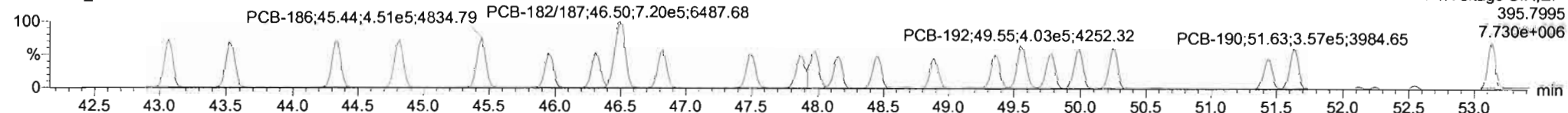
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**PCB-188**

201026K3\_2

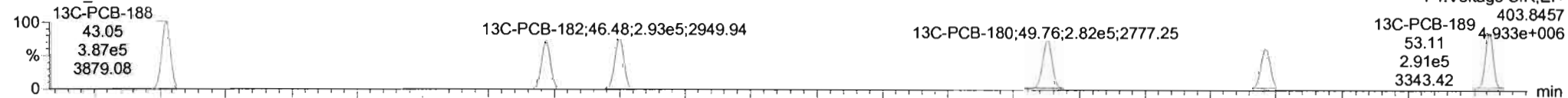


201026K3\_2

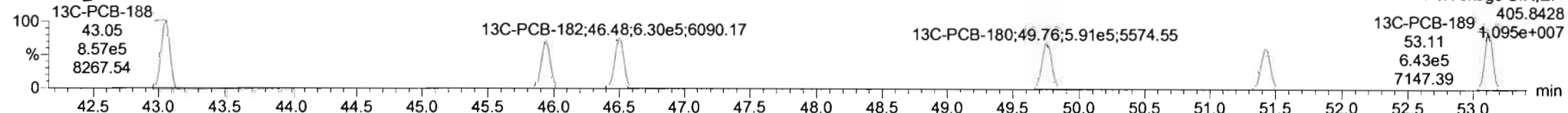


**13C-PCB-188**

201026K3\_2

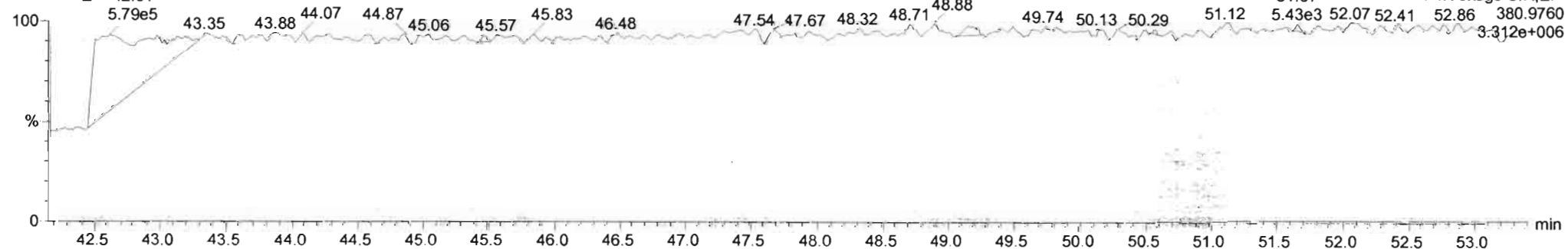


201026K3\_2



**PFK4c**

201026K3\_2



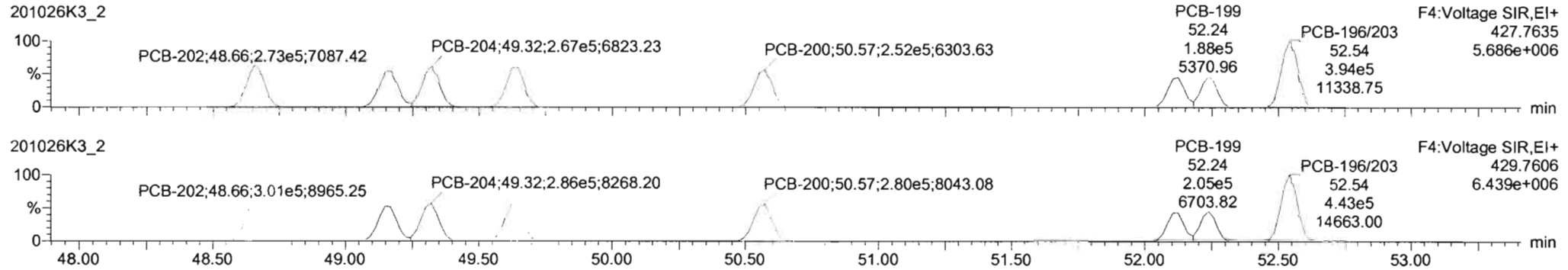


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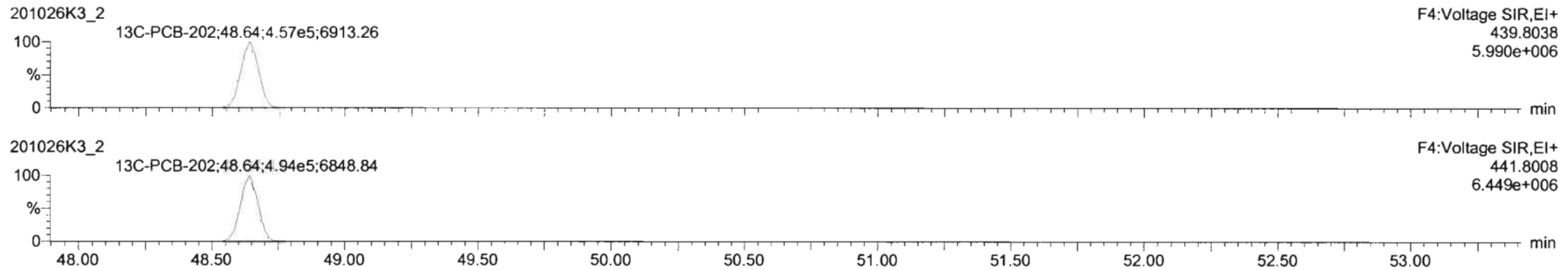
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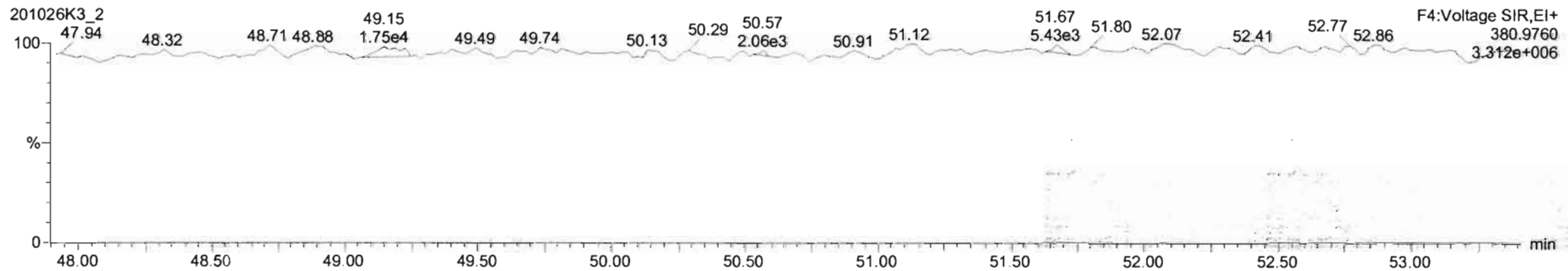
**PCB-202**



**13C-PCB-202**



**PFK4d**

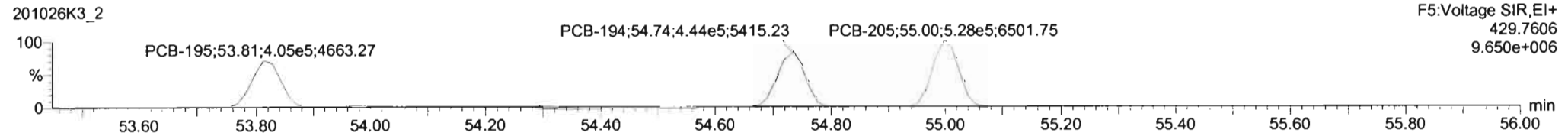
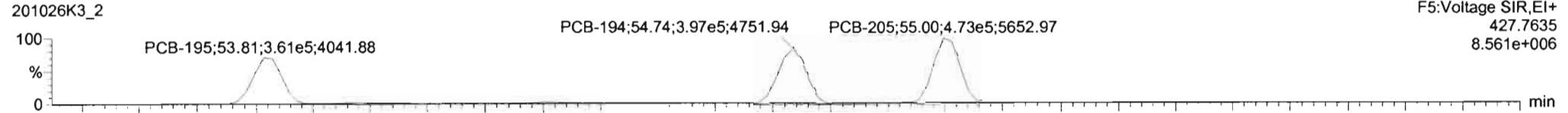


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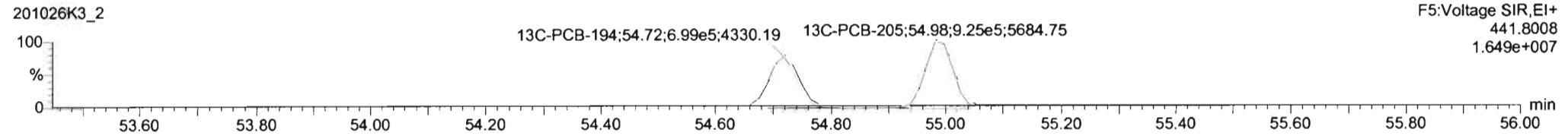
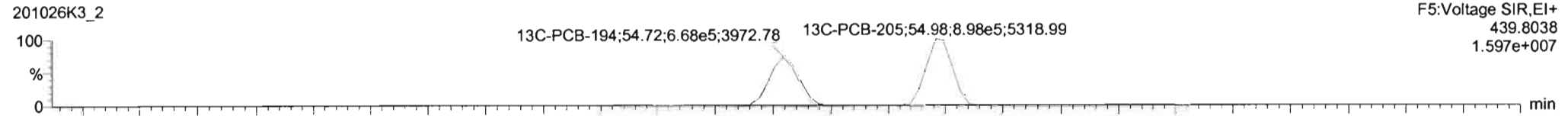
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Printed: Wednesday, October 28, 2020 08:49:19 Pacific Daylight Time

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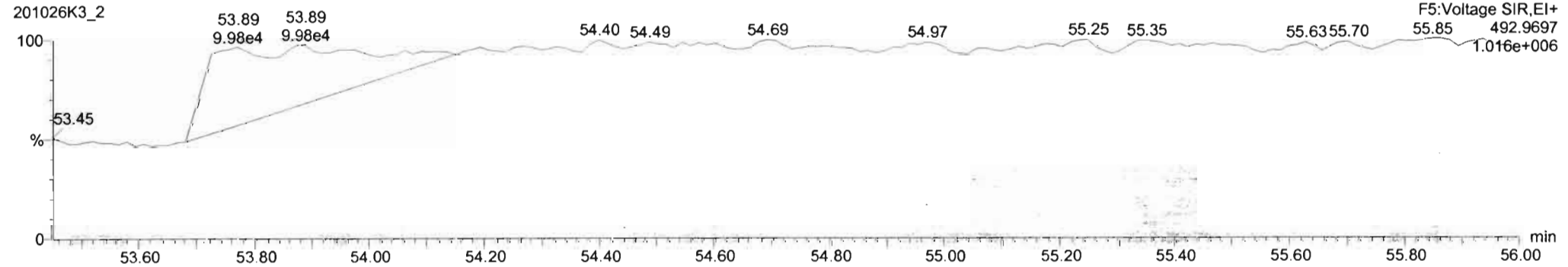
**PCB-195**



**13C-PCB-194**



**PFK5a**

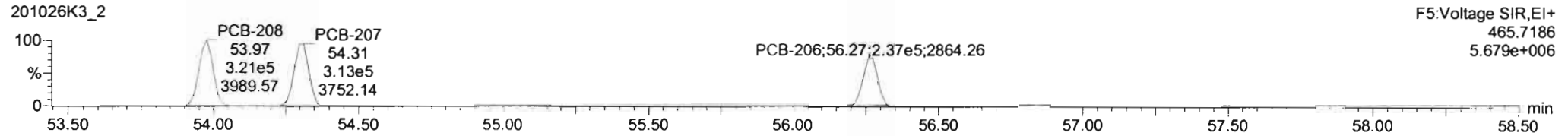
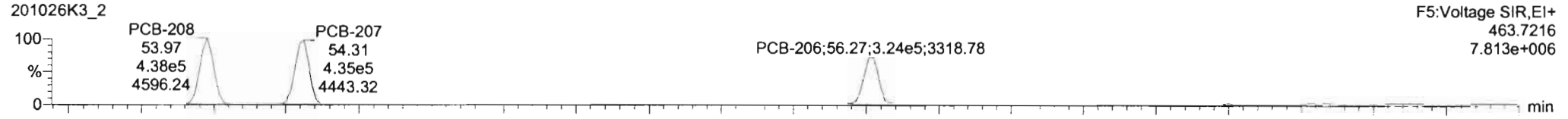


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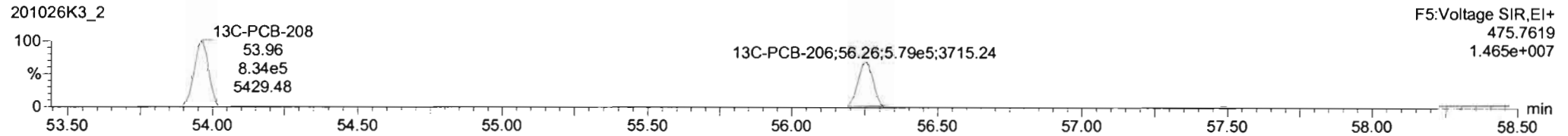
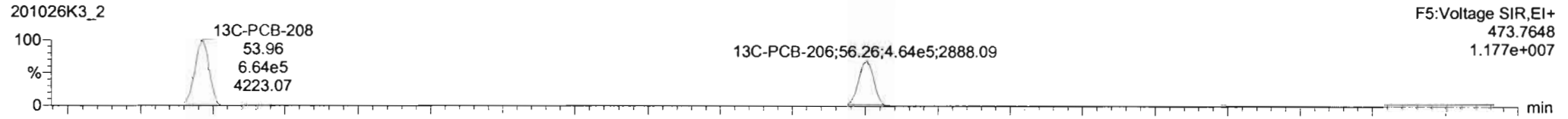
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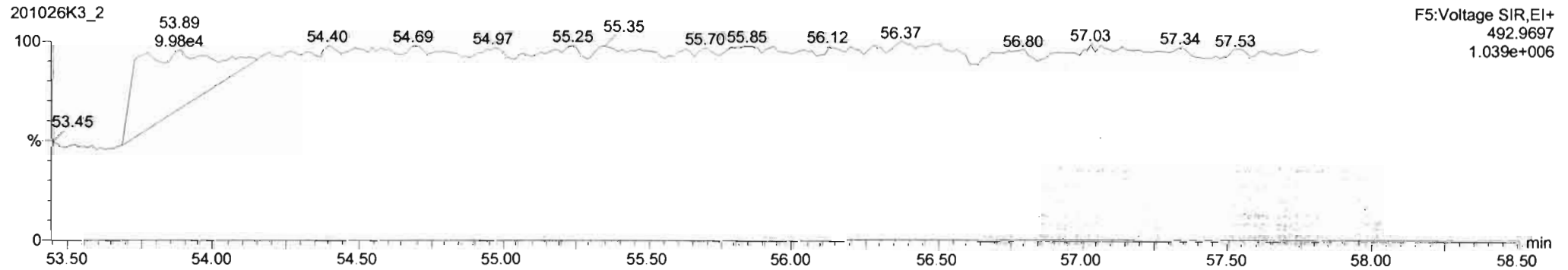
**PCB-208**



**13C-PCB-208**



**PFK5**



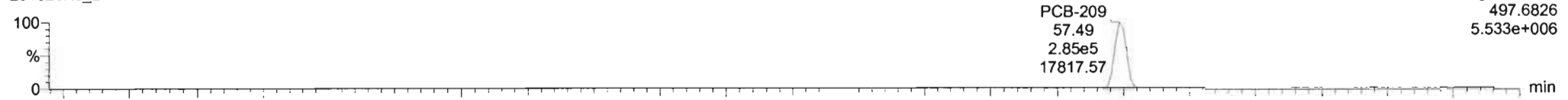
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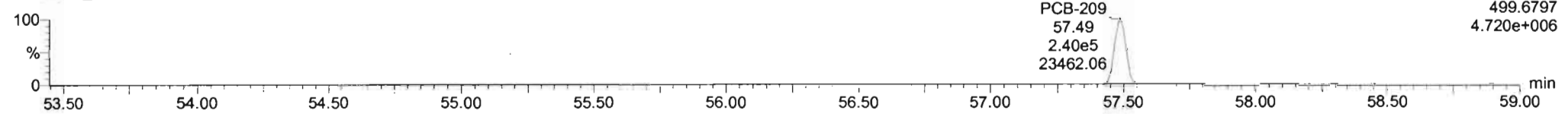
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**PCB-209**

201026K3\_2

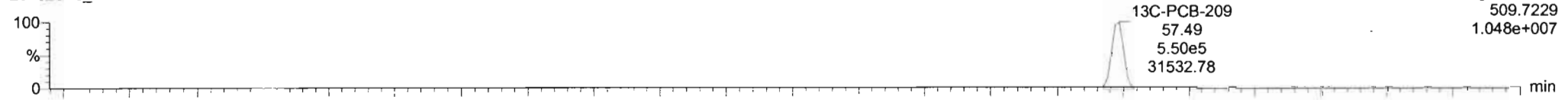


201026K3\_2

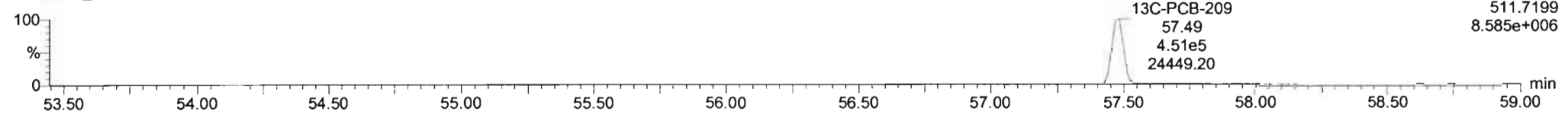


**13C-PCB-209**

201026K3\_2

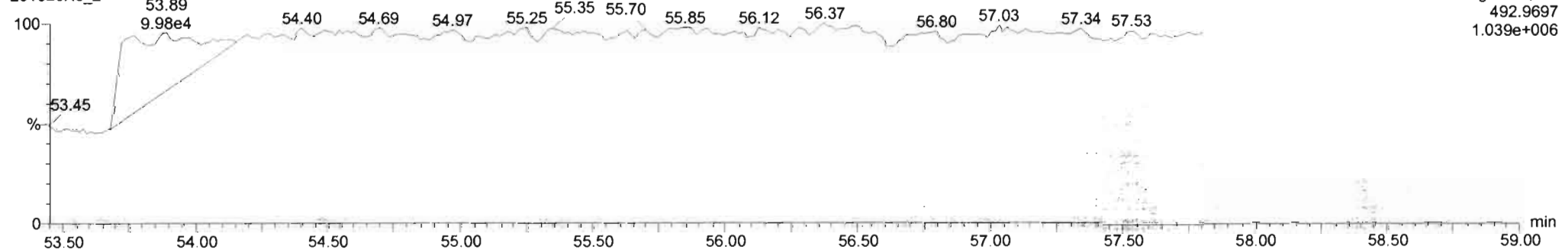


201026K3\_2



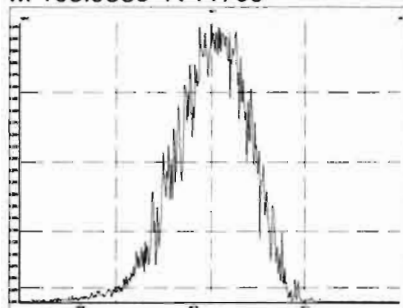
**PFK5b**

201026K3\_2

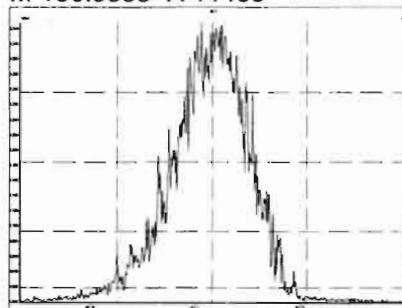


Printed: Wednesday, October 28, 2020 00:10:27 Pacific Daylight Time

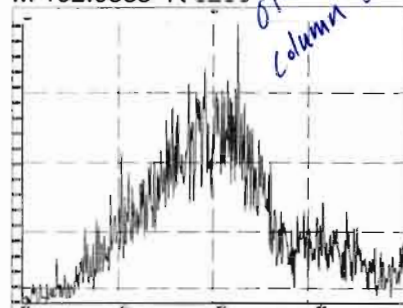
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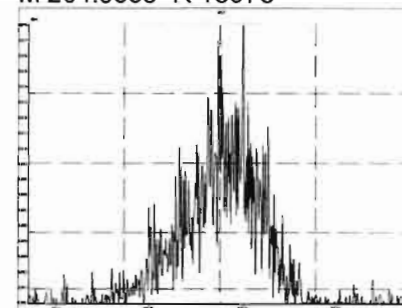
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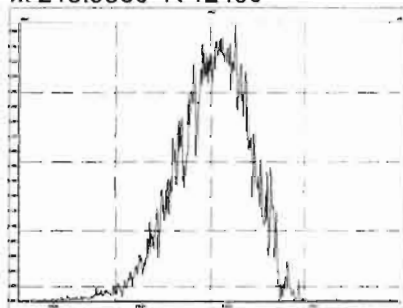
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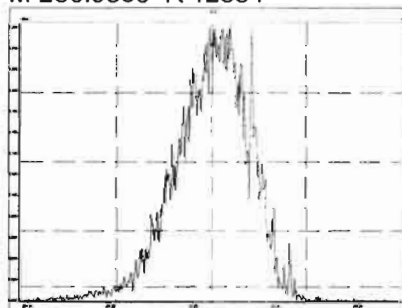
M 204.9888 R 15975



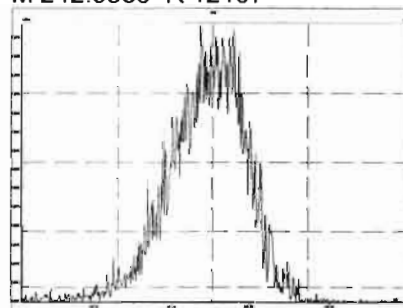
M 218.9856 R 12406



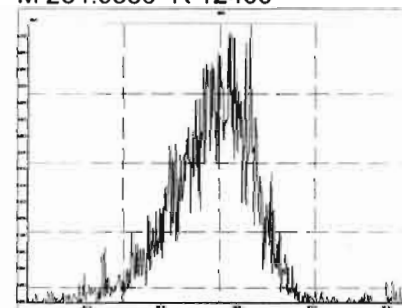
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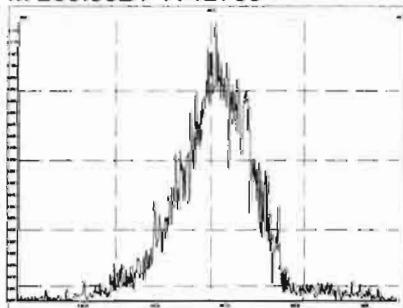
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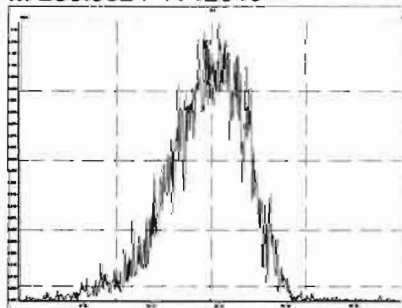
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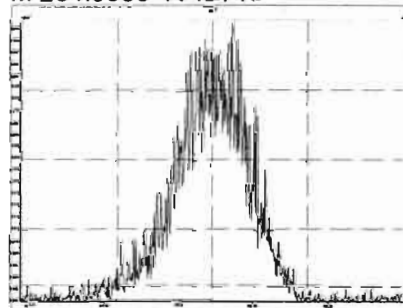
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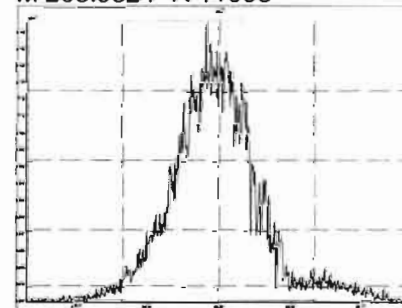
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M 254.9856 R 12719

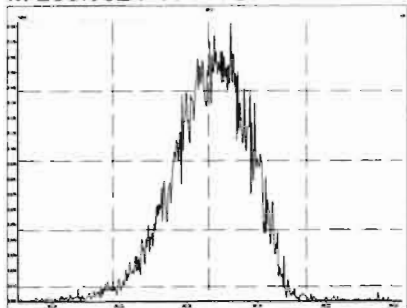


M 268.9824 R 11098

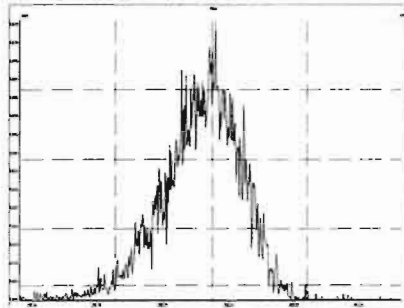


Printed: Wednesday, October 28, 2020 00:10:27 Pacific Daylight Time

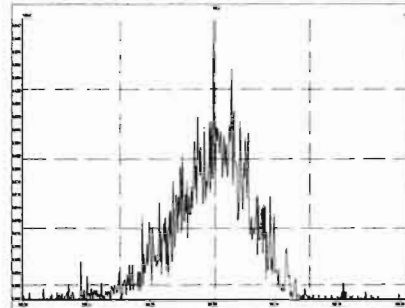
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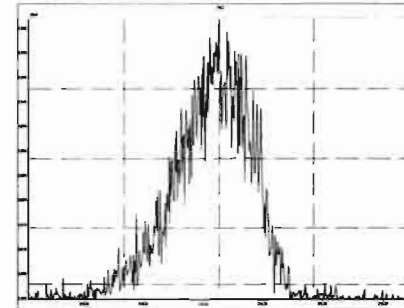
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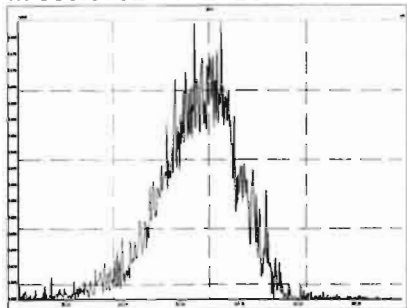
M 304.9824 R 11737



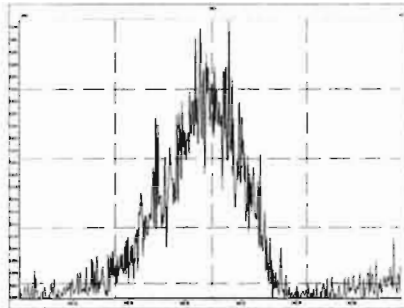
M 318.9792 R 13236



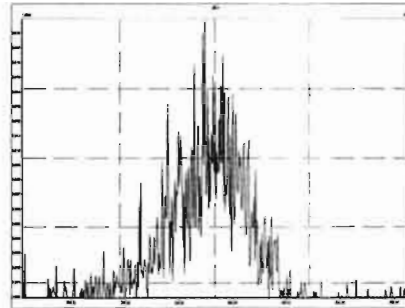
M 330.9792 R 12423



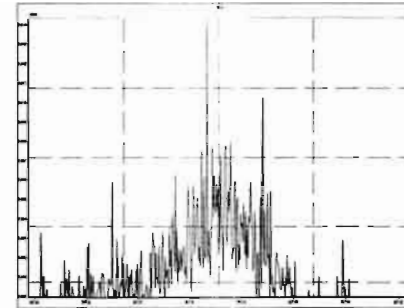
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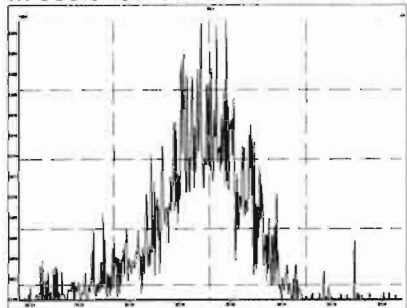
M 354.9792 R 14729



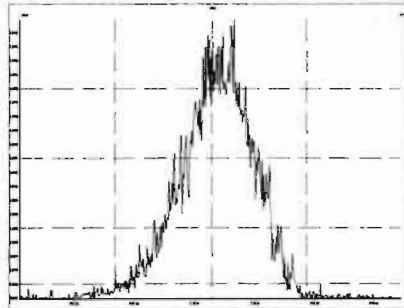
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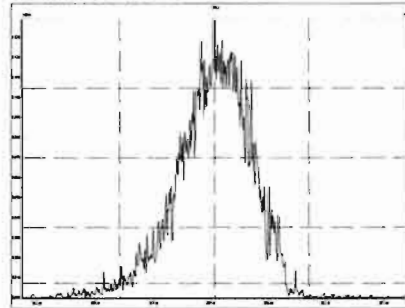
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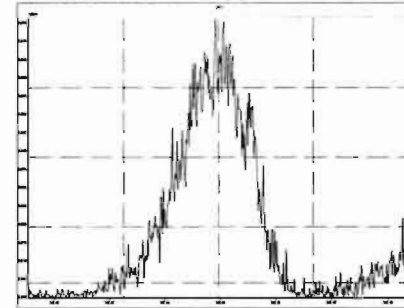
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M 330.9792 R 12406

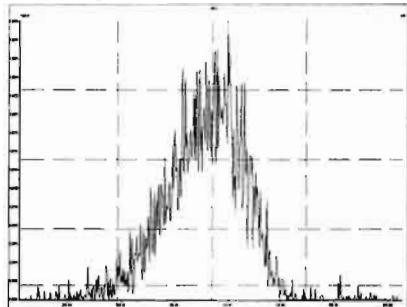


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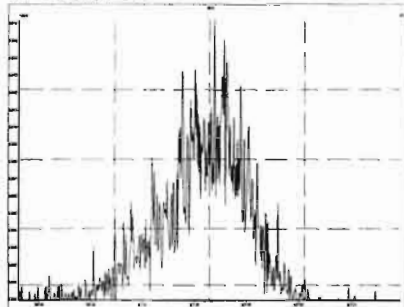


Printed: Wednesday, October 28, 2020 00:10:27 Pacific Daylight Time

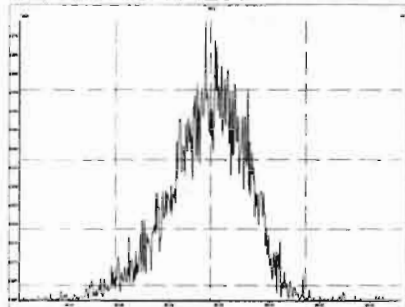
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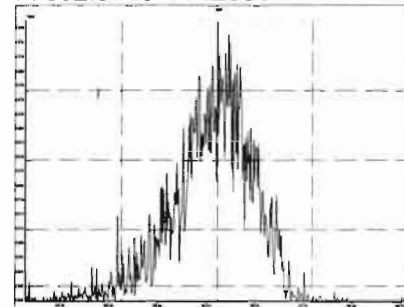
M 366.9792 R 14710



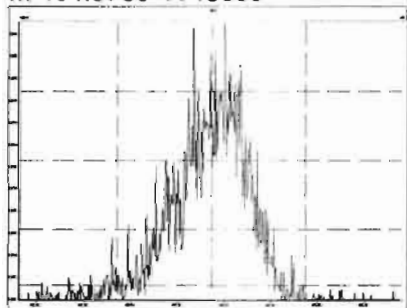
M 380.9760 R 12051



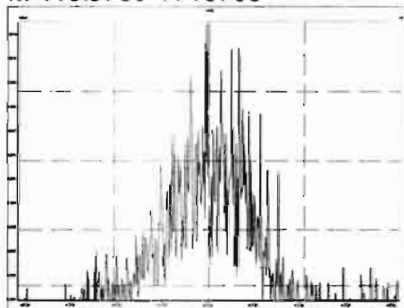
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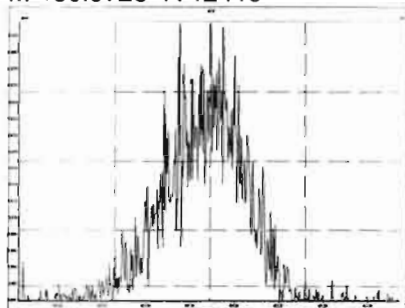
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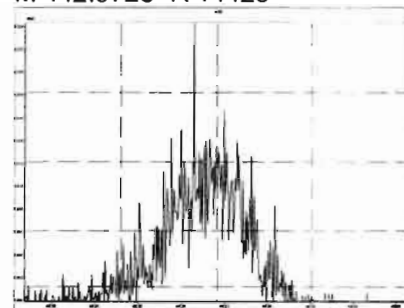
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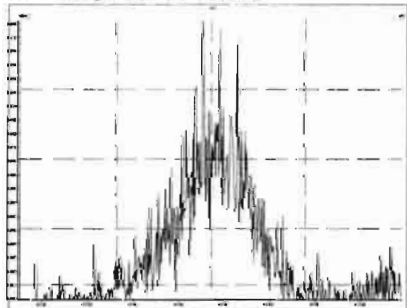
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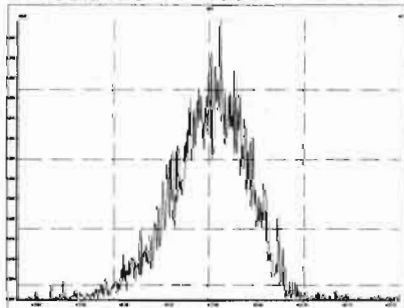
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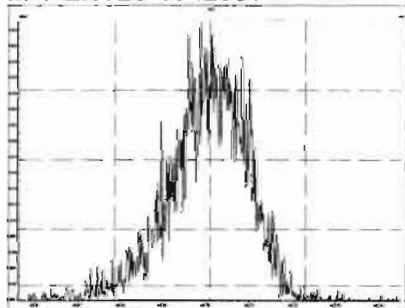
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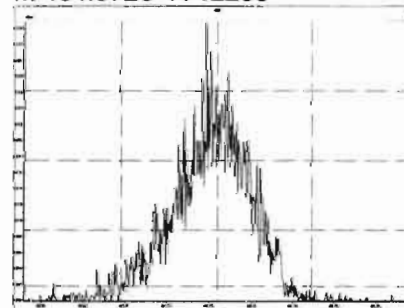
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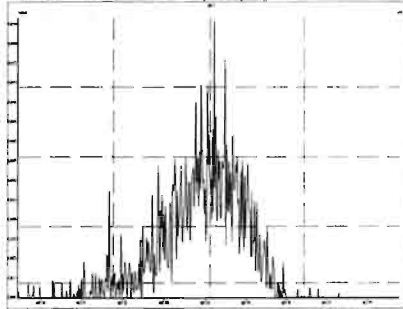
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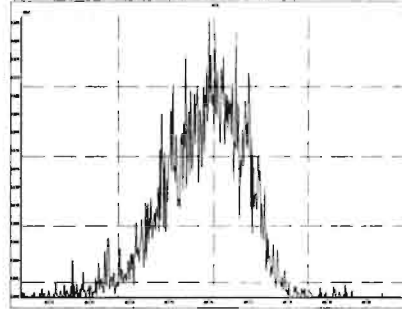
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Printed: Wednesday, October 28, 2020 00:10:27 Pacific Daylight Time

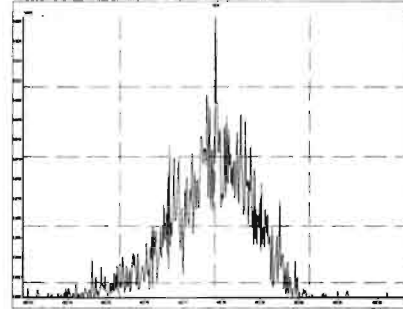
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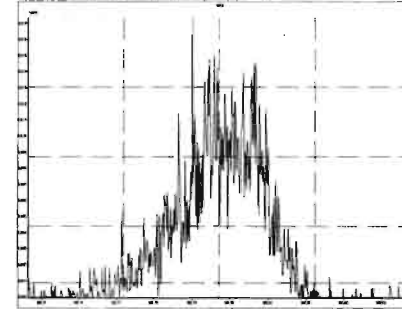
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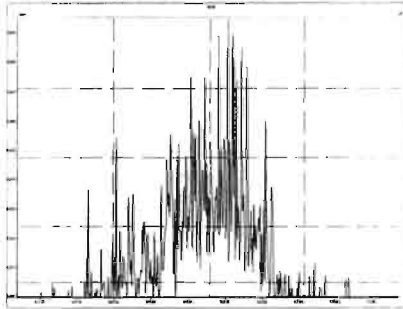
M 492.9696 R 14741



M 504.9696 R 14619



M 516.9697 R 20083





# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST201026K4-1

**Reviewed By:** F/N 10/29/2020

*Initials & Date*

**End Calibration ID:** NA

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

**Mass resolution  $\geq$**

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:**

1 mass affected by column bleed

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/> (A)	<input checked="" type="checkbox"/> (A)
<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/> NA

Dataset: U:\VG11.PRO\Results\201026K4\201026K4-2.qld

Last Altered: Wednesday, October 28, 2020 08:47:42 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:22:10 Pacific Daylight Time

*HC 10/28/2020*  
*HV 10/29/2020*

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_10-24-20.mdb 24 Oct 2020 13:45:57  
Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 PCB-1	1.57e6	3.19	NO	1.17	1.000	15.60	15.61	1.001	1.002	NO	57.34	115	0.0102	57.34
2	2 PCB-2	1.61e6	3.16	NO	1.18	1.000	18.02	18.02	0.988	0.988	NO	56.67	113	0.0101	56.67
3	3 PCB-3	1.59e6	3.18	NO	1.15	1.000	18.25	18.26	1.001	1.001	NO	57.90	116	0.0105	57.90
4	4 PCB-4/10	2.83e6	1.58	NO	1.25	1.000	19.67	19.67	1.004	1.004	NO	116.2	116	0.0292	116.2
5	5 PCB-7/9	3.46e6	1.58	NO	0.960	1.000	21.47	21.45	1.003	1.002	NO	117.1	117	0.0246	117.1
6	6 PCB-6	1.82e6	1.57	NO	1.02	1.000	22.12	22.12	1.033	1.033	NO	57.95	116	0.0231	57.95
7	7 PCB-5/8	3.61e6	1.60	NO	0.992	1.000	22.53	22.53	1.052	1.052	NO	118.3	118	0.0238	118.3
8	8 PCB-14	1.83e6	1.59	NO	1.02	1.000	23.66	23.67	0.951	0.952	NO	59.33	119	0.0242	59.33
9	9 PCB-11	1.95e6	1.60	NO	1.13	1.000	24.89	24.89	1.001	1.001	NO	57.12	114	0.0219	57.12
10	10 PCB-12/13	3.62e6	1.56	NO	1.03	1.000	25.32	25.26	1.018	1.016	NO	116.3	116	0.0240	116.3
11	11 PCB-15	1.83e6	1.57	NO	1.03	1.000	25.61	25.61	1.030	1.030	NO	58.39	117	0.0238	58.39
12	12 PCB-19	7.55e5	1.04	NO	1.11	1.000	23.86	23.85	1.001	1.001	NO	54.05	108	0.0165	54.05
13	13 PCB-30	1.24e6	1.04	NO	1.79	1.000	24.76	24.76	1.039	1.039	NO	54.88	110	0.0102	54.88
14	14 PCB-18	8.25e5	1.04	NO	0.818	1.000	25.52	25.53	0.952	0.952	NO	56.41	113	0.0158	56.41
15	15 PCB-17	7.76e5	1.04	NO	0.758	1.000	25.71	25.71	0.959	0.959	NO	57.21	114	0.0171	57.21
16	16 PCB-24/27	2.18e6	1.05	NO	1.08	1.000	26.31	26.30	0.981	0.981	NO	112.5	112	0.0120	112.5
17	17 PCB-16/32	1.85e6	1.04	NO	0.925	1.000	26.84	26.84	1.001	1.001	NO	111.8	112	0.0140	111.8
18	18 PCB-34	1.47e6	1.05	NO	0.945	1.000	27.64	27.66	0.959	0.959	NO	52.27	105	0.0240	52.27
19	19 PCB-23	1.51e6	1.07	NO	0.883	1.000	27.73	27.75	0.962	0.963	NO	57.39	115	0.0257	57.40
20	20 PCB-29	1.45e6	1.08	NO	0.893	1.000	27.99	27.99	0.971	0.971	NO	54.58	109	0.0254	54.58
21	21 PCB-26	1.55e6	1.04	NO	0.944	1.000	28.22	28.22	0.979	0.979	NO	55.31	111	0.0240	55.31
22	22 PCB-25	1.53e6	1.08	NO	0.950	1.000	28.37	28.39	0.984	0.984	NO	54.04	108	0.0239	54.04
23	23 PCB-31	1.64e6	1.09	NO	1.04	1.000	28.75	28.76	0.997	0.997	NO	53.30	107	0.0219	53.30
24	24 PCB-28	1.79e6	1.05	NO	1.03	1.000	28.85	28.85	1.001	1.001	NO	58.68	117	0.0221	58.68
25	25 PCB-20/21/33	4.65e6	1.04	NO	0.941	1.000	29.49	29.48	1.023	1.023	NO	166.4	111	0.0241	166.4
26	26 PCB-22	1.61e6	1.07	NO	0.973	1.000	29.93	29.95	1.038	1.039	NO	55.74	111	0.0233	55.74
27	27 PCB-36	1.63e6	1.06	NO	1.08	1.000	30.58	30.58	0.931	0.931	NO	57.05	114	0.0238	57.06
28	28 PCB-39	1.55e6	1.03	NO	0.988	1.000	31.08	31.06	0.947	0.946	NO	59.08	118	0.0259	59.08
29	29 PCB-38	1.58e6	1.08	NO	1.05	1.000	31.86	31.86	0.970	0.970	NO	56.70	113	0.0243	56.70
30	30 PCB-35	1.59e6	1.07	NO	1.04	1.000	32.41	32.40	0.987	0.987	NO	57.46	115	0.0245	57.46
31	31 PCB-37	1.59e6	1.10	NO	1.01	1.000	32.85	32.85	1.001	1.001	NO	59.36	119	0.0253	59.35
32	32 PCB-54	1.02e6	0.79	NO	1.08	1.000	27.70	27.70	1.001	1.001	NO	55.15	110	0.0179	55.15

Dataset: U:\VG11.PRO\Results\201026K4\201026K4-2.qld

Last Altered: Wednesday, October 28, 2020 08:47:42 Pacific Daylight Time

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Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
33	33 PCB-50	8.47e5	0.77	NO	0.880	1.000	28.91	28.91	1.044	1.044	NO	56.07	112	0.0220	56.07
34	34 PCB-53	7.73e5	0.79	NO	0.997	1.000	29.56	29.58	0.944	0.944	NO	55.04	110	0.0233	55.04
35	35 PCB-51	8.36e5	0.80	NO	1.07	1.000	29.92	29.91	0.955	0.955	NO	55.68	111	0.0218	55.68
36	36 PCB-45	6.76e5	0.77	NO	0.858	1.000	30.36	30.36	0.969	0.969	NO	55.84	112	0.0271	55.84
37	37 PCB-46	6.35e5	0.79	NO	0.831	1.000	30.86	30.86	0.985	0.985	NO	54.25	109	0.0280	54.25
38	38 PCB-52/69	1.87e6	0.80	NO	1.17	1.000	31.36	31.36	1.001	1.001	NO	113.7	114	0.0199	113.7
39	39 PCB-73	1.05e6	0.80	NO	1.44	1.000	31.48	31.49	1.005	1.005	NO	51.71	103	0.0161	51.71
40	40 PCB-43/49	1.58e6	0.78	NO	1.02	1.000	31.65	31.66	1.010	1.011	NO	110.1	110	0.0229	110.1
41	41 PCB-47	8.13e5	0.77	NO	0.922	1.000	31.86	31.86	1.001	1.001	NO	58.26	117	0.0236	58.26
42	42 PCB-48/75	1.80e6	0.78	NO	1.12	1.000	31.98	31.98	1.004	1.004	NO	106.2	106	0.0194	106.2
43	43 PCB-65	1.02e6	0.79	NO	1.28	1.000	32.26	32.26	1.013	1.013	NO	52.66	105	0.0170	52.66
44	44 PCB-62	9.32e5	0.82	NO	1.13	1.000	32.35	32.37	1.016	1.016	NO	54.59	109	0.0193	54.59
45	45 PCB-44	6.61e5	0.80	NO	0.824	1.000	32.68	32.68	1.026	1.026	NO	52.96	106	0.0264	52.96
46	46 PCB-42/59	1.72e6	0.79	NO	1.05	1.000	32.91	32.92	1.033	1.034	NO	108.1	108	0.0207	108.1
47	47 PCB-41/64/71/72	3.85e6	0.80	NO	1.19	1.000	33.52	33.52	1.053	1.053	NO	214.3	107	0.0183	214.3
48	48 PCB-68	1.05e6	0.79	NO	1.28	1.000	33.78	33.80	1.061	1.061	NO	54.10	108	0.0170	54.10
49	49 PCB-40	5.11e5	0.82	NO	0.602	1.000	33.99	34.01	1.067	1.068	NO	56.10	112	0.0362	56.10
50	50 PCB-57	1.11e6	0.80	NO	1.16	1.000	34.38	34.40	0.969	0.970	NO	53.78	108	0.0166	53.78
51	51 PCB-67	1.08e6	0.77	NO	1.08	1.000	34.69	34.71	0.978	0.979	NO	56.28	113	0.0178	56.28
52	52 PCB-58	1.14e6	0.79	NO	1.20	1.000	34.82	34.82	0.982	0.982	NO	53.28	107	0.0160	53.28
53	53 PCB-63	1.06e6	0.78	NO	1.07	1.000	34.97	34.99	0.986	0.986	NO	55.53	111	0.0180	55.53
54	54 PCB-74	1.09e6	0.79	NO	1.19	1.000	35.28	35.29	0.994	0.995	NO	51.80	104	0.0163	51.80
55	55 PCB-61/70	2.10e6	0.79	NO	1.05	1.000	35.49	35.42	1.000	0.998	NO	112.1	112	0.0183	112.1
56	56 PCB-76/66	2.32e6	0.79	NO	1.16	1.000	35.68	35.70	1.006	1.006	NO	111.9	112	0.0166	111.9
57	57 PCB-80	1.19e6	0.78	NO	1.19	1.000	35.95	35.94	1.001	1.000	NO	54.74	109	0.0155	54.74
58	58 PCB-55	1.20e6	0.78	NO	1.17	1.000	36.28	36.26	1.010	1.009	NO	56.08	112	0.0157	56.08
59	59 PCB-56/60	2.06e6	0.80	NO	1.02	1.000	36.77	36.78	1.024	1.024	NO	110.7	111	0.0181	110.7
60	60 PCB-79	1.14e6	0.79	NO	1.14	1.000	37.90	37.88	1.055	1.054	NO	54.73	109	0.0161	54.73
61	61 PCB-78	1.09e6	0.82	NO	1.14	1.000	38.60	38.60	0.987	0.987	NO	54.76	110	0.0173	54.76
62	62 PCB-81	9.81e5	0.79	NO	1.05	1.000	39.14	39.14	1.000	1.000	NO	53.46	107	0.0188	53.45
63	63 PCB-77	1.04e6	0.79	NO	1.14	1.000	39.76	39.76	1.000	1.000	NO	53.61	107	0.0178	53.61
64	64 PCB-104	6.32e5	1.60	NO	1.12	1.000	32.53	32.53	1.001	1.001	NO	53.47	107	0.0177	53.47
65	65 PCB-96	6.52e5	1.63	NO	1.15	1.000	33.84	33.84	1.041	1.041	NO	53.69	107	0.0172	53.69
66	66 PCB-103	5.23e5	1.64	NO	0.936	1.000	34.40	34.40	1.058	1.058	NO	53.04	106	0.0212	53.04
67	67 PCB-100	5.34e5	1.61	NO	0.954	1.000	34.77	34.77	1.069	1.069	NO	53.15	106	0.0208	53.15
68	68 PCB-94	4.24e5	1.59	NO	0.949	1.000	35.27	35.25	0.985	0.985	NO	52.08	104	0.0263	52.08

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Dataset: U:\VG11.PRO\Results\201026K4\201026K4-2.qld

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Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	1.62e6	1.57	NO	1.20	1.000	35.74	35.74	0.999	0.998	NO	156.5	104	0.0208	156.5
70	70 PCB-93	4.47e5	1.59	NO	0.935	1.000	35.89	35.88	1.003	1.003	NO	55.74	111	0.0267	55.74
71	71 PCB-88/91	9.29e5	1.58	NO	1.06	1.000	36.22	36.22	1.012	1.012	NO	101.8	102	0.0235	101.8
72	72 PCB-121	7.88e5	1.64	NO	1.71	1.000	36.33	36.31	1.015	1.015	NO	53.76	108	0.0146	53.76
73	73 PCB-84/92	9.00e5	1.63	NO	1.02	1.000	37.17	37.15	0.990	0.990	NO	106.4	106	0.0257	106.4
74	74 PCB-89	4.91e5	1.62	NO	1.11	1.000	37.36	37.35	0.995	0.995	NO	53.45	107	0.0237	53.45
75	75 PCB-90/101	9.94e5	1.61	NO	1.12	1.000	37.55	37.54	1.000	1.000	NO	106.6	107	0.0233	106.6
76	76 PCB-113	6.46e5	1.58	NO	1.51	1.000	37.80	37.80	1.007	1.007	NO	51.35	103	0.0173	51.35
77	77 PCB-99	6.03e5	1.63	NO	1.32	1.000	37.90	37.89	1.010	1.009	NO	54.90	110	0.0198	54.90
78	78 PCB-119	6.80e5	1.57	NO	1.81	1.000	38.38	38.36	0.987	0.987	NO	51.12	102	0.0164	51.13
79	79 PCB-108/112	1.15e6	1.62	NO	1.44	1.000	38.53	38.53	0.991	0.991	NO	108.1	108	0.0205	108.1
80	80 PCB-83	7.10e5	1.61	NO	1.83	1.000	38.71	38.69	0.996	0.995	NO	52.56	105	0.0162	52.56
81	81 PCB-97	4.91e5	1.59	NO	1.28	1.000	38.90	38.90	1.000	1.000	NO	51.95	104	0.0231	51.95
82	82 PCB-86	4.35e5	1.59	NO	1.12	1.000	39.07	39.05	1.005	1.004	NO	52.84	106	0.0265	52.84
83	83 PCB-87/117/125	1.88e6	1.60	NO	1.56	1.000	39.19	39.18	1.008	1.008	NO	163.8	109	0.0190	163.8
84	84 PCB-111/115	1.40e6	1.59	NO	1.91	1.000	39.35	39.35	1.012	1.012	NO	99.35	99.3	0.0155	99.35
85	85 PCB-85/116	1.15e6	1.61	NO	1.41	1.000	39.47	39.46	1.015	1.015	NO	110.4	110	0.0210	110.4
86	86 PCB-120	7.68e5	1.60	NO	2.01	1.000	39.74	39.74	1.022	1.022	NO	51.99	104	0.0148	51.99
87	87 PCB-110	6.97e5	1.60	NO	1.74	1.000	39.89	39.87	1.026	1.025	NO	54.22	108	0.0170	54.22
88	88 PCB-82	4.18e5	1.61	NO	0.781	1.000	40.50	40.52	0.975	0.976	NO	53.09	106	0.0276	53.09
89	89 PCB-124	7.02e5	1.61	NO	1.40	1.000	41.21	41.22	0.993	0.993	NO	49.82	99.6	0.0154	49.82
90	90 PCB-107/109	1.45e6	1.60	NO	1.34	1.000	41.35	41.37	0.996	0.996	NO	106.9	107	0.0161	106.9
91	91 PCB-123	6.49e5	1.61	NO	1.20	1.000	41.54	41.54	1.000	1.000	NO	53.72	107	0.0180	53.72
92	92 PCB-106/118	1.37e6	1.62	NO	1.22	1.000	41.75	41.76	1.001	1.001	NO	107.3	107	0.0170	107.3
93	93 PCB-114	1.23e6	1.59	NO	1.14	1.000	42.41	42.40	1.000	1.000	NO	55.54	111	0.0170	55.55
94	94 PCB-122	1.08e6	1.61	NO	0.944	1.000	42.56	42.56	1.004	1.004	NO	58.91	118	0.0206	58.91
95	95 PCB-105	1.16e6	1.59	NO	1.05	1.000	43.29	43.29	1.000	1.000	NO	55.74	111	0.0183	55.74
96	96 PCB-127	1.21e6	1.58	NO	1.06	1.000	43.65	43.65	1.000	1.000	NO	55.50	111	0.0175	55.50
97	97 PCB-126	1.24e6	1.64	NO	1.17	1.000	45.60	45.61	1.000	1.000	NO	55.96	112	0.0174	55.96
98	98 PCB-155	3.36e5	1.32	NO	1.04	1.000	37.08	37.08	1.000	1.000	NO	50.18	100	0.0131	50.18
99	99 PCB-150	3.60e5	1.32	NO	1.08	1.000	38.38	38.38	1.036	1.036	NO	51.76	104	0.0126	51.76
100	1... PCB-152	4.01e5	1.31	NO	1.19	1.000	38.86	38.86	1.049	1.049	NO	52.66	105	0.0116	52.66
101	1... PCB-145	3.92e5	1.28	NO	1.19	1.000	39.33	39.33	1.061	1.061	NO	51.32	103	0.0115	51.32
102	1... PCB-136	3.39e5	1.30	NO	1.02	1.000	39.66	39.66	1.070	1.070	NO	51.65	103	0.0134	51.65
103	1... PCB-148	2.87e5	1.34	NO	0.842	1.000	39.76	39.77	1.073	1.073	NO	53.02	106	0.0163	53.02
104	1... PCB-154	3.11e5	1.29	NO	0.919	1.000	40.28	40.29	1.087	1.087	NO	52.66	105	0.0149	52.66

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Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
105	1... PCB-151	2.64e5	1.32	NO	0.787	1.000	40.95	40.94	1.105	1.105	NO	52.33	105	0.0174	52.34
106	1... PCB-135	2.94e5	1.33	NO	0.922	1.000	41.17	41.17	1.111	1.111	NO	49.67	99.3	0.0149	49.67
107	1... PCB-144	2.80e5	1.34	NO	0.789	1.000	41.28	41.28	1.114	1.114	NO	55.36	111	0.0174	55.36
108	1... PCB-147	2.79e5	1.29	NO	0.834	1.000	41.41	41.41	1.117	1.117	NO	52.06	104	0.0164	52.06
109	1... PCB-139/149	6.33e5	1.29	NO	0.948	1.000	41.70	41.69	1.125	1.125	NO	104.0	104	0.0145	104.0
110	1... PCB-140	2.76e5	1.30	NO	0.794	1.000	41.88	41.88	1.130	1.130	NO	54.07	108	0.0173	54.07
111	1... PCB-134/143	1.21e6	1.27	NO	0.759	1.000	42.33	42.33	0.974	0.974	NO	112.6	113	0.0320	112.6
112	1... PCB-131/133	1.29e6	1.27	NO	0.821	1.000	42.65	42.65	0.982	0.982	NO	110.6	111	0.0296	110.6
113	1... PCB-142	5.77e5	1.27	NO	0.754	1.000	42.81	42.80	0.985	0.985	NO	53.87	108	0.0322	53.87
114	1... PCB-146/165	1.57e6	1.27	NO	1.02	1.000	43.05	43.05	0.991	0.991	NO	108.5	108	0.0239	108.5
115	1... PCB-132/161	1.58e6	1.26	NO	1.02	1.000	43.29	43.28	0.997	0.996	NO	108.4	108	0.0237	108.4
116	1... PCB-153	8.33e5	1.30	NO	1.07	1.000	43.46	43.47	1.000	1.000	NO	54.76	110	0.0227	54.76
117	1... PCB-168	8.39e5	1.27	NO	1.08	1.000	43.69	43.69	1.006	1.006	NO	54.85	110	0.0225	54.85
118	1... PCB-141	6.66e5	1.25	NO	1.03	1.000	44.22	44.22	1.000	1.000	NO	56.19	112	0.0296	56.19
119	1... PCB-137	6.76e5	1.25	NO	1.11	1.000	44.62	44.62	1.009	1.009	NO	52.79	106	0.0274	52.79
120	1... PCB-130	5.80e5	1.30	NO	0.885	1.000	44.71	44.74	1.012	1.012	NO	56.72	113	0.0343	56.72
121	1... PCB-138/163/164	2.58e6	1.25	NO	1.28	1.000	45.11	45.11	1.001	1.001	NO	165.1	110	0.0221	165.1
122	1... PCB-158/160	1.66e6	1.26	NO	1.24	1.000	45.38	45.36	1.007	1.006	NO	110.1	110	0.0228	110.1
123	1... PCB-129	5.58e5	1.26	NO	0.867	1.000	45.61	45.61	1.012	1.012	NO	53.01	106	0.0327	53.01
124	1... PCB-166	9.05e5	1.26	NO	1.14	1.000	46.08	46.08	0.993	0.993	NO	51.63	103	0.0203	51.63
125	1... PCB-159	9.95e5	1.26	NO	1.22	1.000	46.43	46.42	1.001	1.000	NO	53.37	107	0.0191	53.37
126	1... PCB-128/162	1.49e6	1.27	NO	0.907	1.000	46.71	46.72	1.007	1.007	NO	107.2	107	0.0256	107.2
127	1... PCB-167	8.84e5	1.28	NO	1.11	1.000	47.12	47.14	1.000	1.001	NO	52.89	106	0.0214	52.89
128	1... PCB-156	8.88e5	1.26	NO	1.13	1.000	48.45	48.47	1.000	1.001	NO	53.78	108	0.0219	53.78
129	1... PCB-157	8.24e5	1.27	NO	1.04	1.000	48.73	48.73	1.000	1.000	NO	53.88	108	0.0229	53.88
130	1... PCB-169	8.97e5	1.26	NO	1.16	1.000	51.01	51.01	1.000	1.000	NO	54.36	109	0.0220	54.36
131	1... PCB-188	7.01e5	1.04	NO	1.29	1.000	43.11	43.09	1.001	1.000	NO	54.13	108	0.0373	54.13
132	1... PCB-184	6.98e5	1.07	NO	1.23	1.000	43.56	43.54	1.011	1.011	NO	56.47	113	0.0391	56.47
133	1... PCB-179	7.08e5	1.06	NO	1.30	1.000	44.36	44.36	1.030	1.030	NO	54.32	109	0.0371	54.32
134	1... PCB-176	7.19e5	1.06	NO	1.31	1.000	44.85	44.83	1.041	1.041	NO	54.70	109	0.0368	54.70
135	1... PCB-186	7.73e5	1.05	NO	1.33	1.000	45.47	45.45	1.056	1.055	NO	57.96	116	0.0362	57.96
136	1... PCB-178	5.29e5	1.07	NO	0.943	1.000	45.99	45.97	1.068	1.067	NO	55.91	112	0.0510	55.91
137	1... PCB-175	5.38e5	1.04	NO	0.956	1.000	46.35	46.33	1.076	1.076	NO	56.01	112	0.0503	56.01
138	1... PCB-182/187	1.21e6	1.03	NO	1.07	1.000	46.52	46.51	1.080	1.080	NO	112.7	113	0.0451	112.7
139	1... PCB-183	5.85e5	1.06	NO	1.02	1.000	46.84	46.84	1.088	1.087	NO	56.94	114	0.0470	56.94
140	1... PCB-185	5.30e5	1.05	NO	1.41	1.000	47.51	47.50	0.955	0.954	NO	51.75	103	0.0484	51.75

Dataset: U:\VG11.PRO\Results\201026K4\201026K4-2.qld

Last Altered: Wednesday, October 28, 2020 08:47:42 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:22:10 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
141	1... PCB-174	5.18e5	1.05	NO	1.35	1.000	47.89	47.88	0.962	0.962	NO	52.51	105	0.0503	52.51
142	1... PCB-181	5.77e5	1.05	NO	1.47	1.000	48.00	47.99	0.964	0.964	NO	53.64	107	0.0462	53.64
143	1... PCB-177	4.96e5	1.04	NO	1.28	1.000	48.18	48.16	0.968	0.968	NO	53.27	107	0.0533	53.27
144	1... PCB-171	5.05e5	1.03	NO	1.32	1.000	48.49	48.47	0.974	0.974	NO	52.66	105	0.0517	52.66
145	1... PCB-173	4.64e5	1.04	NO	1.19	1.000	48.91	48.90	0.983	0.983	NO	53.51	107	0.0572	53.51
146	1... PCB-172	5.44e5	1.06	NO	1.38	1.000	49.38	49.38	0.992	0.992	NO	54.24	108	0.0495	54.24
147	1... PCB-192	7.04e5	1.05	NO	1.83	1.000	49.58	49.57	0.996	0.996	NO	52.85	106	0.0373	52.85
148	1... PCB-180	5.57e5	1.06	NO	1.41	1.000	49.79	49.79	1.000	1.000	NO	54.14	108	0.0482	54.14
149	1... PCB-193	6.49e5	1.04	NO	1.68	1.000	50.01	50.00	1.005	1.005	NO	53.10	106	0.0406	53.10
150	1... PCB-191	6.63e5	1.05	NO	1.71	1.000	50.27	50.27	1.010	1.010	NO	53.17	106	0.0398	53.16
151	1... PCB-170	4.82e5	1.04	NO	1.40	1.000	51.44	51.44	1.000	1.000	NO	54.16	108	0.0548	54.16
152	1... PCB-190	6.33e5	1.07	NO	1.85	1.000	51.65	51.65	1.005	1.004	NO	53.85	108	0.0415	53.85
153	1... PCB-189	6.66e5	1.05	NO	1.45	1.000	53.15	53.15	1.000	1.000	NO	54.75	110	0.0347	54.75
154	1... PCB-202	4.66e5	0.90	NO	1.17	1.000	48.69	48.67	1.001	1.000	NO	50.70	101	0.0169	50.70
155	1... PCB-201	4.39e5	0.91	NO	1.05	1.000	49.17	49.17	1.010	1.010	NO	53.07	106	0.0188	53.07
156	1... PCB-204	4.59e5	0.92	NO	1.14	1.000	49.32	49.34	1.014	1.014	NO	51.21	102	0.0173	51.21
157	1... PCB-197	4.61e5	0.91	NO	1.13	1.000	49.63	49.64	1.020	1.020	NO	51.81	104	0.0175	51.81
158	1... PCB-200	4.56e5	0.92	NO	1.07	1.000	50.57	50.59	1.039	1.040	NO	54.23	108	0.0185	54.23
159	1... PCB-198	3.52e5	0.89	NO	0.794	1.000	52.12	52.12	1.071	1.071	NO	56.40	113	0.0249	56.40
160	1... PCB-199	3.31e5	0.91	NO	0.809	1.000	52.26	52.26	1.074	1.074	NO	52.11	104	0.0244	52.11
161	1... PCB-196/203	7.15e5	0.92	NO	0.838	1.000	52.55	52.56	1.080	1.080	NO	108.5	109	0.0236	108.5
162	1... PCB-195	6.28e5	0.88	NO	1.04	1.000	53.84	53.83	0.984	0.983	NO	51.43	103	0.0224	51.43
163	1... PCB-194	7.14e5	0.91	NO	1.12	1.000	54.75	54.75	1.000	1.000	NO	54.74	109	0.0210	54.74
164	1... PCB-205	8.68e5	0.90	NO	1.29	1.000	55.03	55.01	1.005	1.005	NO	57.59	115	0.0182	57.59
165	1... PCB-208	6.50e5	1.37	NO	0.933	1.000	53.99	53.99	1.000	1.000	NO	53.67	107	0.0254	53.67
166	1... PCB-207	6.40e5	1.38	NO	0.916	1.000	54.31	54.31	1.006	1.006	NO	53.80	108	0.0258	53.80
167	1... PCB-206	4.80e5	1.35	NO	1.01	1.000	56.27	56.27	1.000	1.000	NO	53.99	108	0.0332	53.99
168	1... PCB-209	4.44e5	1.20	NO	0.986	1.000	57.49	57.50	1.000	1.000	NO	52.42	105	0.0112	52.42
169	1... 13C-PCB-1	2.34e6	3.37	NO	0.893	1.000	15.59	15.59	0.609	0.609	NO	82.54	82.5	0.0423	
170	1... 13C-PCB-3	2.40e6	3.32	NO	0.911	1.000	18.23	18.24	0.712	0.713	NO	82.98	83.0	0.0415	
171	1... 13C-PCB-4	1.95e6	1.62	NO	0.600	1.000	19.60	19.59	0.766	0.765	NO	102.7	103	0.0317	
172	1... 13C-PCB-9	3.07e6	1.62	NO	0.970	1.000	21.41	21.41	0.837	0.837	NO	99.94	99.9	0.0196	
173	1... 13C-PCB-11	3.03e6	1.62	NO	0.962	1.000	24.87	24.87	0.972	0.972	NO	99.27	99.3	0.0198	
174	1... 13C-PCB-19	1.26e6	1.05	NO	0.499	1.000	23.83	23.83	0.931	0.931	NO	79.72	79.7	0.201	
175	1... 13C-PCB-32	1.79e6	1.04	NO	0.744	1.000	26.82	26.82	1.048	1.048	NO	75.71	75.7	0.135	
176	1... 13C-PCB-28	2.97e6	1.09	NO	1.06	1.000	28.85	28.83	1.004	1.003	NO	104.7	105	0.141	

Handwritten notes: "85-125" and "57-58" with arrows pointing to the %Rec column.

Dataset: U:\VG11.PRO\Results\201026K4\201026K4-2.qld

Last Altered: Wednesday, October 28, 2020 08:47:42 Pacific Daylight Time

Printed: Wednesday, October 28, 2020 09:22:10 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
177	1... 13C-PCB-37	2.65e6	1.15	NO	0.989	1.000	32.84	32.83	1.143	1.143	NO	100.5	100	0.151	
178	1... 13C-PCB-54	1.72e6	0.81	NO	0.999	1.000	27.67	27.68	0.753	0.753	NO	94.97	95.0	0.0476	
179	1... 13C-PCB-52	1.41e6	0.79	NO	0.804	1.000	31.34	31.33	0.853	0.852	NO	96.93	96.9	0.0591	
180	1... 13C-PCB-47	1.51e6	0.80	NO	0.857	1.000	31.87	31.85	0.867	0.866	NO	97.66	97.7	0.0555	
181	1... 13C-PCB-70	1.78e6	0.81	NO	0.996	1.000	35.49	35.47	0.965	0.965	NO	98.74	98.7	0.0478	
182	1... 13C-PCB-80	1.83e6	0.82	NO	1.03	1.000	35.92	35.92	0.977	0.977	NO	98.24	98.2	0.0462	
183	1... 13C-PCB-81	1.75e6	0.80	NO	0.988	1.000	39.12	39.12	1.064	1.064	NO	98.11	98.1	0.0481	
184	1... 13C-PCB-77	1.70e6	0.81	NO	0.969	1.000	39.74	39.74	1.081	1.081	NO	97.29	97.3	0.0491	
185	1... 13C-PCB-104	1.05e6	1.60	NO	1.02	1.000	32.51	32.52	0.827	0.827	NO	99.16	99.2	0.0355	
186	1... 13C-PCB-95	8.58e5	1.60	NO	0.805	1.000	35.77	35.79	0.910	0.910	NO	101.9	102	0.0448	
187	1... 13C-PCB-101	8.31e5	1.62	NO	0.793	1.000	37.52	37.54	0.954	0.955	NO	100.4	100	0.0455	
188	1... 13C-PCB-97	7.37e5	1.65	NO	0.696	1.000	38.85	38.88	0.988	0.989	NO	101.3	101	0.0518	
189	1... 13C-PCB-123	1.01e6	1.62	NO	0.933	1.000	41.52	41.52	1.056	1.056	NO	103.5	103	0.0387	
190	1... 13C-PCB-118	1.05e6	1.64	NO	0.986	1.000	41.71	41.71	1.061	1.061	NO	101.5	102	0.0366	
191	1... 13C-PCB-114	1.94e6	1.59	NO	1.55	1.000	42.38	42.38	0.908	0.908	NO	119.2	119	0.0389	
192	1... 13C-PCB-105	1.98e6	1.62	NO	1.57	1.000	43.30	43.28	0.927	0.927	NO	120.1	120	0.0383	
193	1... 13C-PCB-127	2.06e6	1.63	NO	1.62	1.000	43.63	43.64	0.935	0.935	NO	120.9	121	0.0370	
194	1... 13C-PCB-126	1.89e6	1.63	NO	1.57	1.000	45.59	45.59	0.976	0.976	NO	114.7	115	0.0384	
195	1... 13C-PCB-155	6.42e5	1.32	NO	0.615	1.000	37.06	37.06	0.942	0.942	NO	100.0	100	0.0170	
196	1... 13C-PCB-153	1.42e6	1.26	NO	1.36	1.000	43.44	43.45	0.930	0.931	NO	99.16	99.2	0.0465	
197	1... 13C-PCB-141	1.15e6	1.27	NO	1.13	1.000	44.23	44.20	0.947	0.947	NO	97.50	97.5	0.0562	
198	1... 13C-PCB-138	1.22e6	1.29	NO	1.18	1.000	45.08	45.08	0.965	0.965	NO	97.74	97.7	0.0535	
199	1... 13C-PCB-159	1.53e6	1.28	NO	1.44	1.000	46.42	46.40	0.994	0.994	NO	101.5	101	0.0441	
200	2... 13C-PCB-167	1.51e6	1.26	NO	1.44	1.000	47.12	47.10	1.009	1.009	NO	99.73	99.7	0.0441	
201	2... 13C-PCB-156	1.47e6	1.31	NO	1.40	1.000	48.45	48.43	1.038	1.037	NO	100.0	100	0.0454	
202	2... 13C-PCB-157	1.47e6	1.28	NO	1.40	1.000	48.74	48.71	1.044	1.043	NO	100.4	100	0.0454	
203	2... 13C-PCB-169	1.42e6	1.31	NO	1.33	1.000	51.01	50.99	1.093	1.092	NO	102.0	102	0.0477	
204	2... 13C-PCB-188	1.00e6	0.47	NO	1.41	1.000	43.05	43.07	0.926	0.926	NO	94.94	94.9	0.0461	
205	2... 13C-PCB-180	7.29e5	0.46	NO	0.929	1.000	49.76	49.77	1.070	1.071	NO	104.6	105	0.0699	
206	2... 13C-PCB-170	6.35e5	0.47	NO	0.794	1.000	51.42	51.42	1.106	1.106	NO	106.5	107	0.0818	
207	2... 13C-PCB-189	8.37e5	0.45	NO	1.04	1.000	53.13	53.13	1.143	1.143	NO	106.8	107	0.0622	
208	2... 13C-PCB-202	7.86e5	0.90	NO	1.04	1.000	48.66	48.66	1.046	1.046	NO	101.2	101	0.0329	
209	2... 13C-PCB-194	1.17e6	0.94	NO	0.768	1.000	54.72	54.74	0.995	0.995	NO	96.39	96.4	0.0431	
210	2... 13C-PCB-208	1.30e6	0.80	NO	0.991	1.000	53.96	53.97	0.981	0.981	NO	82.95	83.0	0.0362	
211	2... 13C-PCB-206	8.83e5	0.81	NO	0.552	1.000	56.26	56.26	1.023	1.023	NO	101.3	101	0.0649	
212	2... 13C-PCB-209	8.59e5	1.25	NO	0.396	1.000	57.50	57.49	1.046	1.045	NO	137.2	137	0.0270	

9.1457

Dataset: U:\VG11.PRO\Results\201026K4\201026K4-2.qld

Last Altered: Wednesday, October 28, 2020 08:47:42 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:22:10 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.R...	RRT	Check RRT	Conc.	%Rec	DL	EMPC
213	2... 13C-PCB-15	3.17e6	1.59	NO	1.00	1.000	25.58	25.59	1.000	0.000	NO	100.0	100	0.0190	
214	2... 13C-PCB-31	2.67e6	1.06	NO	1.00	1.000	28.72	28.74	1.000	0.000	NO	100.0	100	0.150	
215	2... 13C-PCB-60	1.81e6	0.80	NO	1.00	1.000	36.74	36.76	1.000	0.000	NO	100.0	100	0.0476	
216	2... 13C-PCB-111	1.04e6	1.62	NO	1.00	1.000	39.33	39.33	1.000	0.000	NO	100.0	100	0.0361	
217	2... 13C-PCB-128	1.05e6	1.25	NO	1.00	1.000	46.67	46.69	1.000	0.000	NO	100.0	100	0.0634	
218	2... 13C-PCB-182	7.50e5	0.47	NO	1.00	1.000	46.50	46.50	0.000	0.000	NO	100.0	100	0.0649	
219	2... 13C-PCB-205	1.58e6	0.94	NO	1.00	1.000	55.01	55.00	1.000	0.000	NO	100.0	100	0.0331	
220	2... 13C-PCB-79	1.91e6	0.82	NO	1.07	1.000	37.86	37.86	1.030	1.030	NO	98.99	99.0	0.0445	
221	2... 13C-PCB-178	7.27e5	0.46	NO	0.766	1.000	45.95	45.95	0.988	0.988	NO	90.38	90.4	0.0635	
222	2... 13C-PCB-79	1.91e6	0.82	NO	1.08	1.000	37.85	37.86	0.968	0.968	NO	100.9	101	0.0464	
223	2... 13C-PCB-178	7.27e5	0.46	NO	1.05	1.000	45.96	45.95	0.923	0.923	NO	94.91	94.9	0.0665	

*Handwritten notes:*  
7/12/20  
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Dataset: Untitled

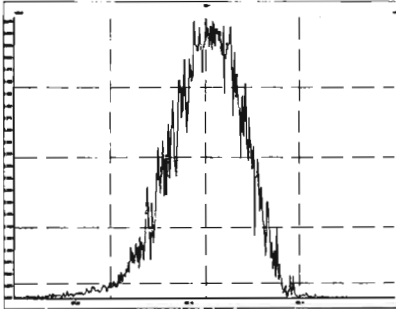
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Printed: Wednesday, October 28, 2020 13:32:18 Pacific Daylight Time

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Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

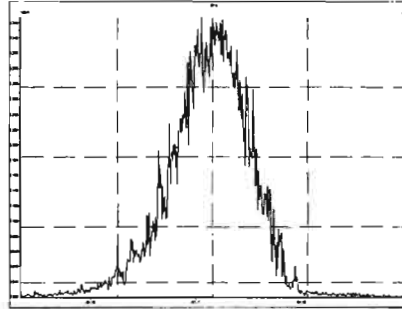
Compound name: PCB-1

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1	201026K4_1	SOLVENT BLANK	28-Oct-20	00:10:29
2	201026K4_2	ST201026K4-1 PCB 209 CS3 19G2609	28-Oct-20	01:09:14
3	201026K4_3	SOLVENT BLANK	28-Oct-20	02:09:41
4	201026K4_4	2002157-07 USMPDI-053SG-201008 10.54	28-Oct-20	03:10:09
5	201026K4_5	2002157-07@20X USMPDI-053SG-201008 1...	28-Oct-20	04:10:38
6	201026K4_6	2002097-05@20X SD-303-BULK_A 21.88	28-Oct-20	05:11:06
7	201026K4_7	2002097-06@20X SD-303-BULK_B 19.72	28-Oct-20	06:11:35
8	201026K4_8	2002097-07@20X SD-304-BULK_A 20.47	28-Oct-20	07:12:04
9	201026K4_9	2002097-08@20X SD-304-BULK_B 17.6	28-Oct-20	08:12:32
10	201026K4_10	2002171-05 USMPDI-050SG-201009 14.75	28-Oct-20	09:17:07
11	201026K4_11	2002097-09@20X SD-305-BULK_A 20.37	28-Oct-20	10:15:35
12	201026K4_12	2002097-10@20X SD-305-BULK_B 18.37	28-Oct-20	11:16:04
13	201026K4_13	2002157-01@20X USMPDI-026SG-201008 1...	28-Oct-20	12:16:32

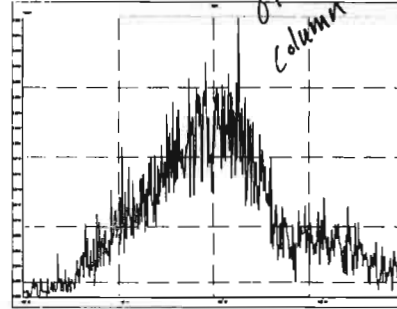
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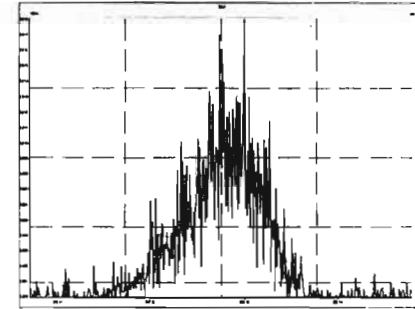
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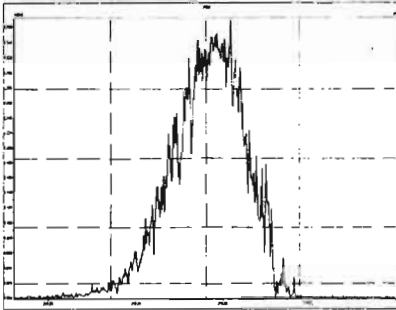
M 192.9888 R 6236



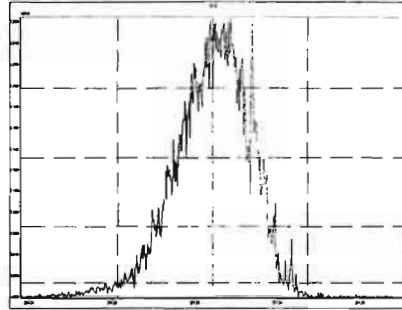
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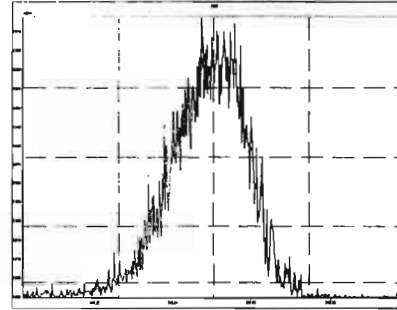
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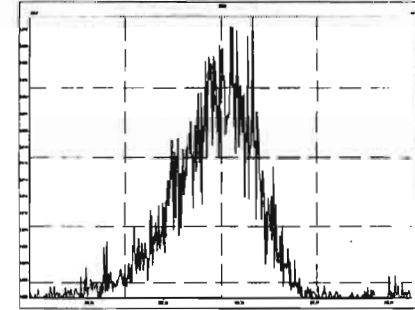
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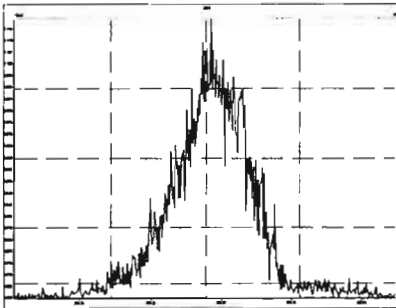
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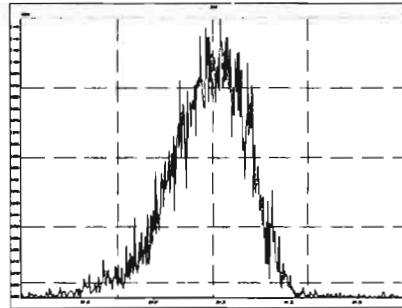
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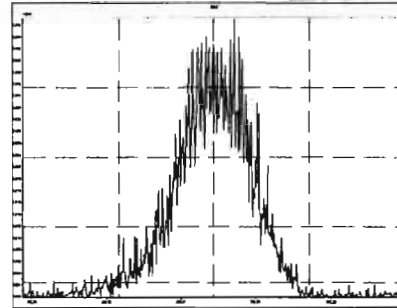
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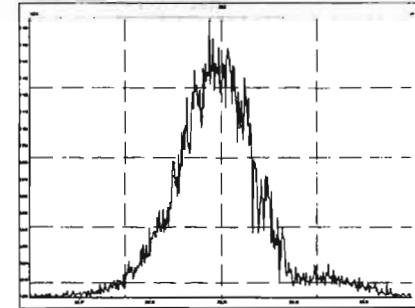
M 280.9824 R 12019



M 254.9856 R 12719

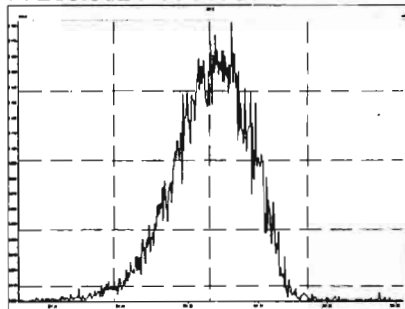


M 268.9824 R 11098

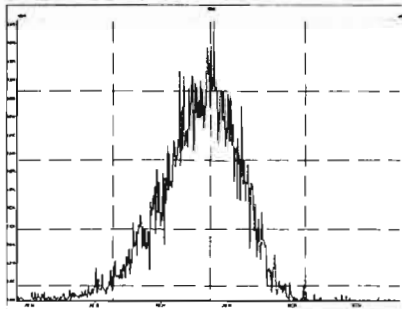


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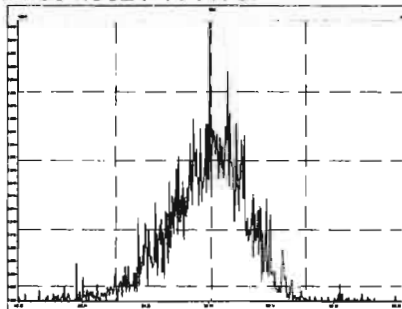
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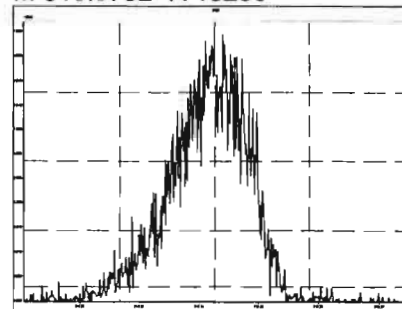
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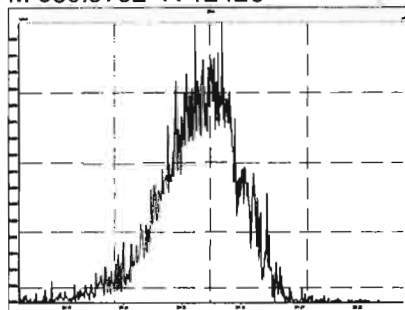
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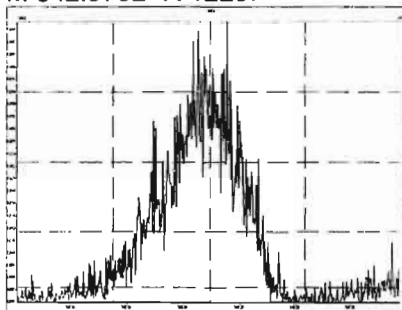
M 318.9792 R 13236



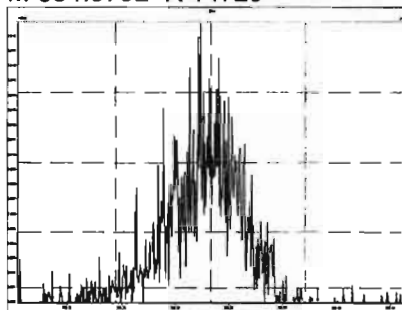
M 330.9792 R 12423



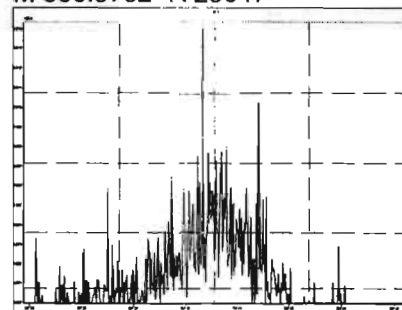
M 342.9792 R 12297



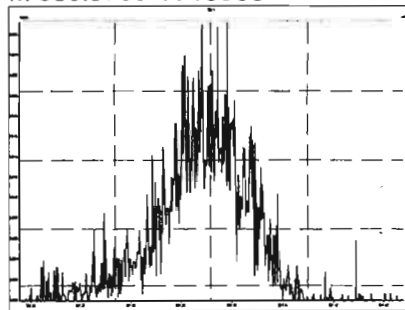
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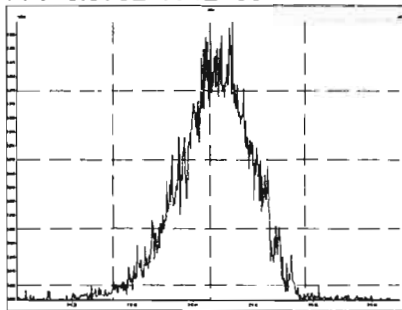
M 366.9792 R 29647



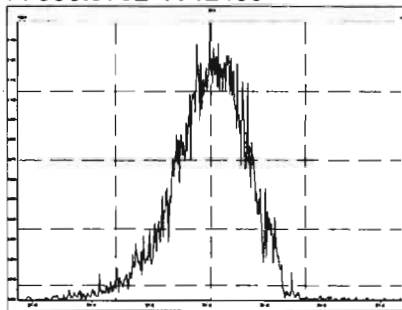
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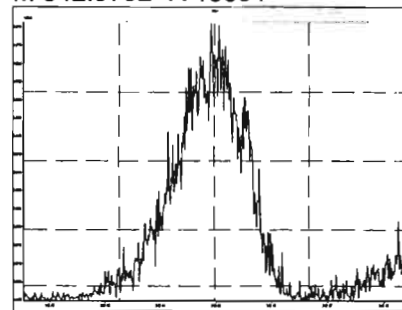
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M 330.9792 R 12406

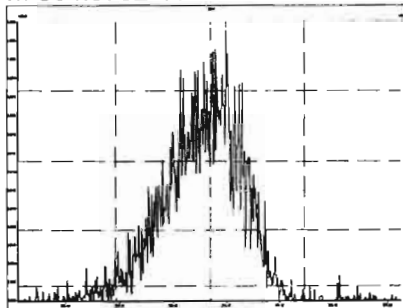


M 342.9792 R 13091

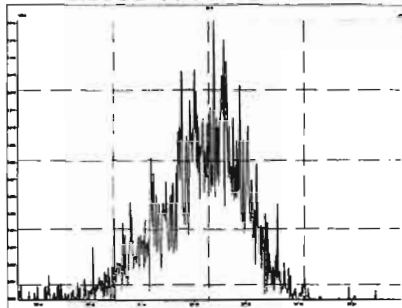


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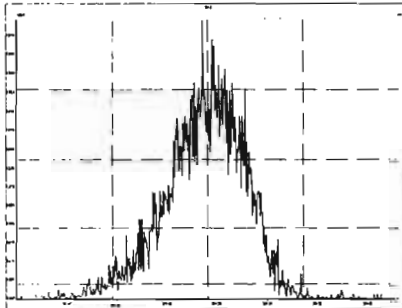
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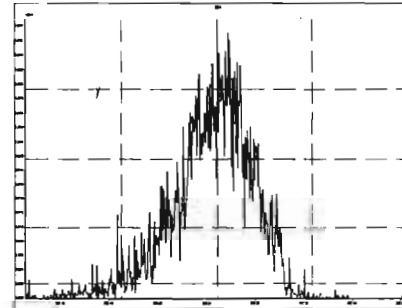
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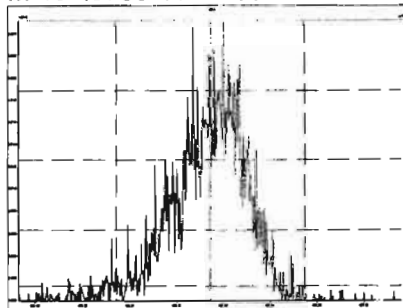
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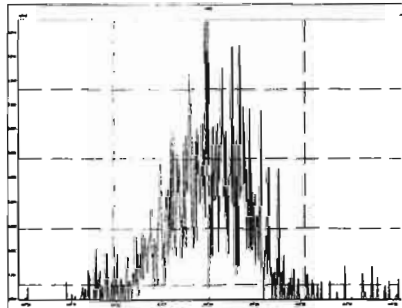
M 392.9760 R 12661



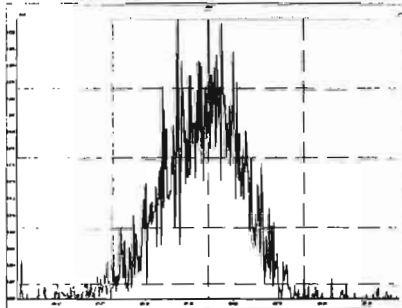
M 404.9760 R 13566



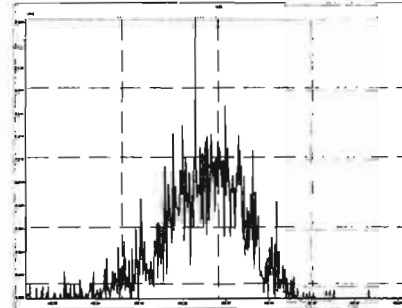
M 416.9760 R 16708



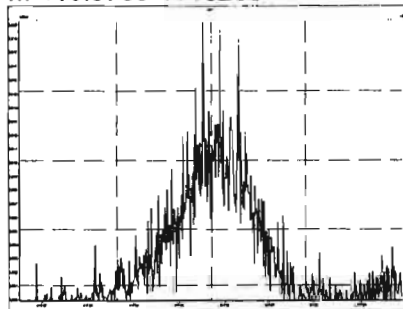
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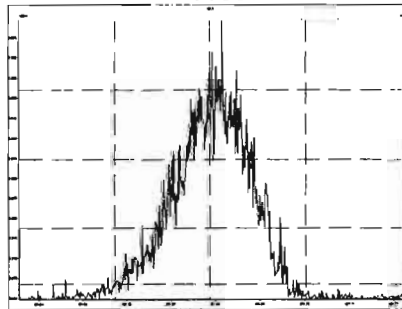
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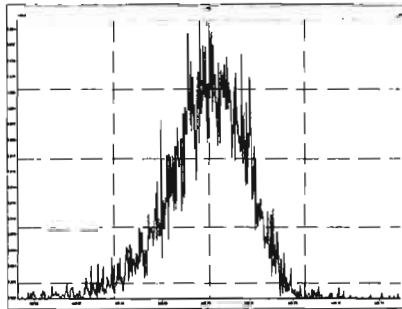
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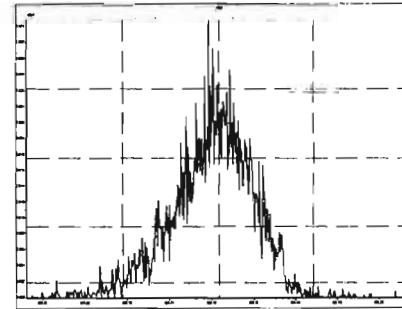
M 430.9728 R 11550



M 442.9728 R 12051

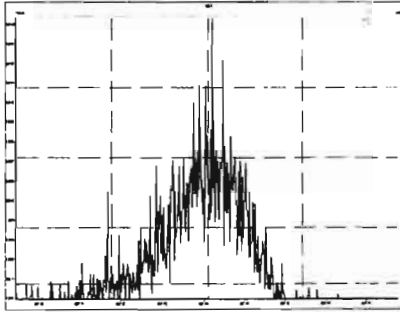


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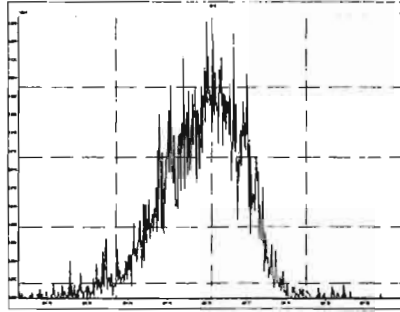


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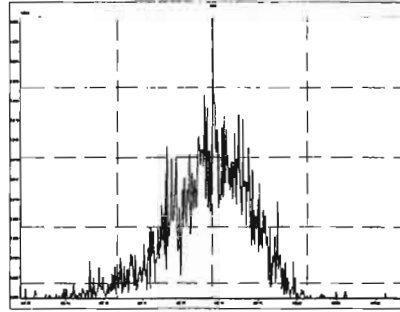
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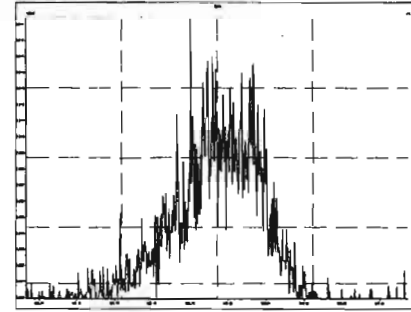
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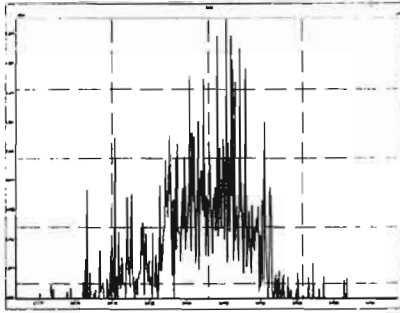
M 492.9696 R 14741



M 504.9696 R 14619



M 516.9697 R 20083



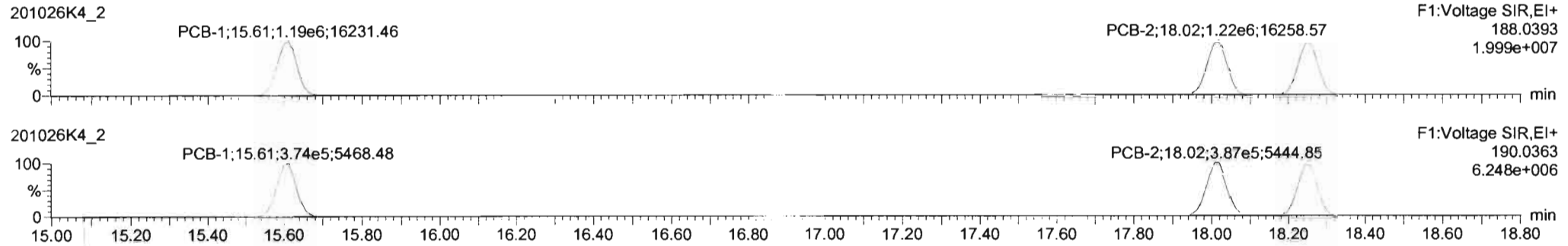
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Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

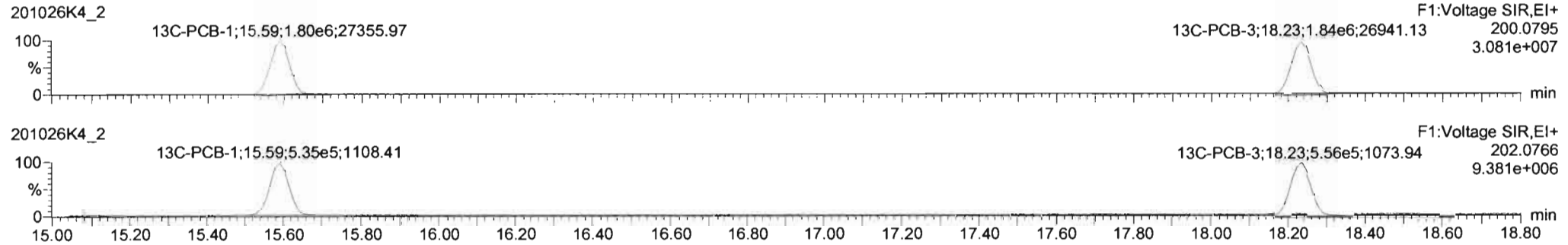
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Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

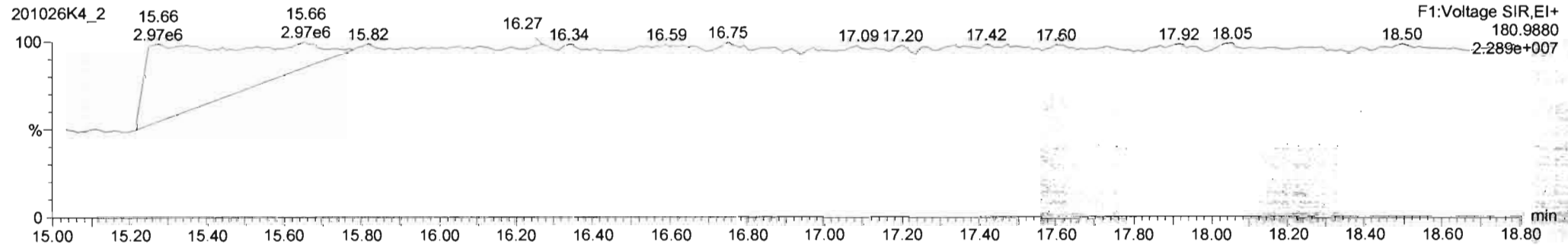
**PCB-1**



**13C-PCB-1**



**PFK1**

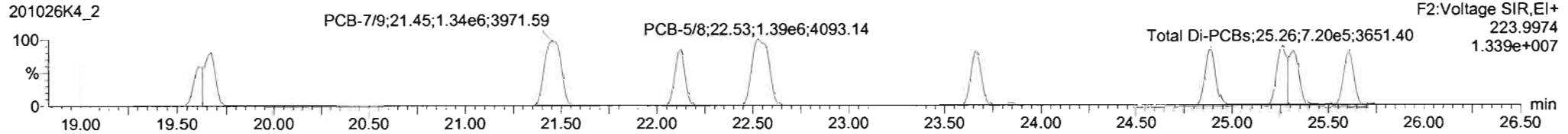
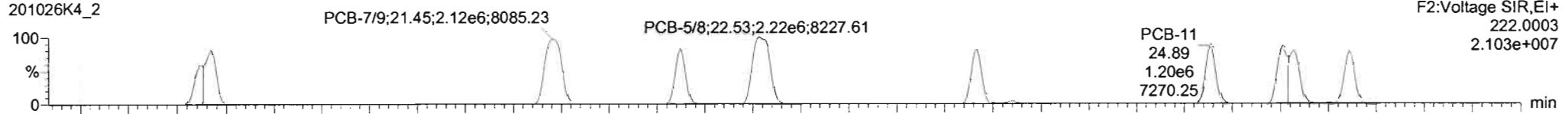


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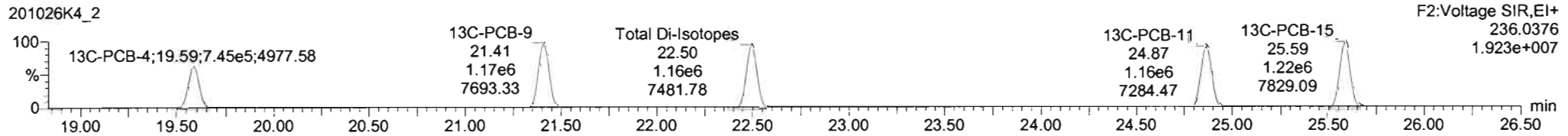
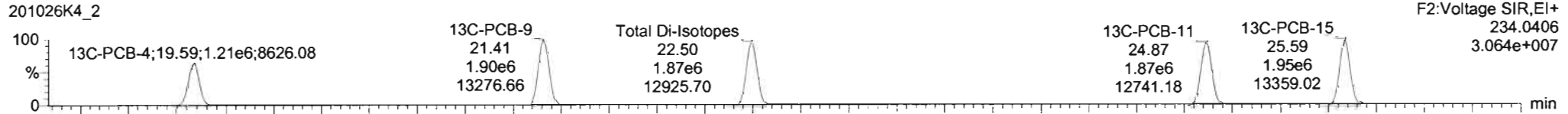
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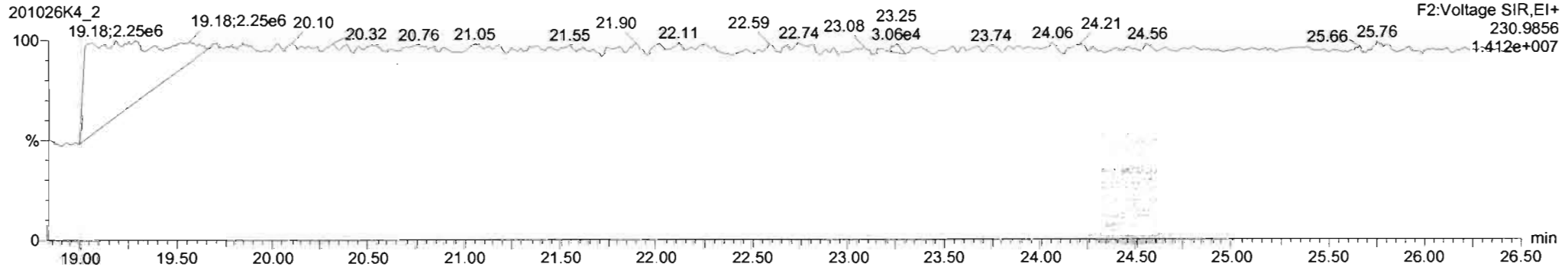
**PCB-4/10**



**13C-PCB-4**



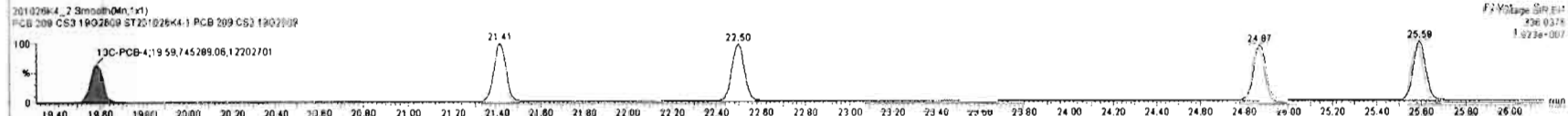
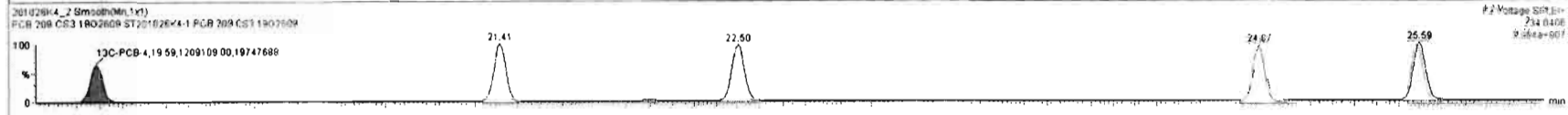
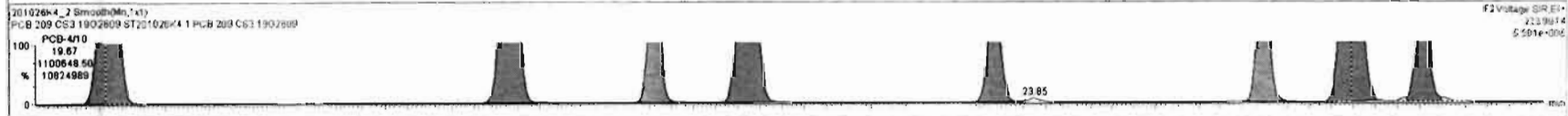
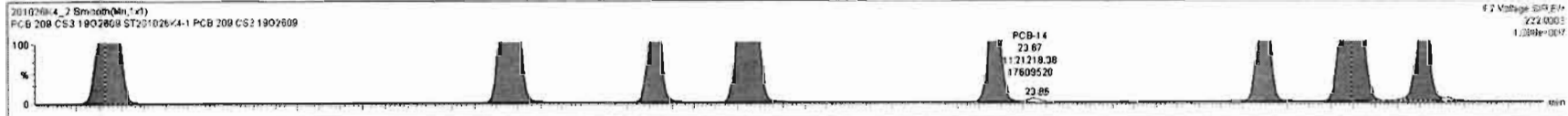
**PFK2a**



201026K4\_2 - ST201026K4-1 PCB 209 CS3 1902609 - PCB 209 CS3 1902609

#	Name	Resp	RA	n/y	RRF	wt/vol	Prod RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
222	222 13C-PCB-79	1.91e6	0.82	NO	1.0821	1.000	37.85	37.86	0.958	0.958	NO	100.9	101	0.0454	
223	223 13C-PCB-178	7.27e5	0.46	NO	1.0508	1.000	45.95	45.95	0.923	0.923	NO	94.91	94.9	0.0655	
224	224 Total Mono-PCBs				1.1665	1.000	0.00		0.000		NO	171.9		0.0308	171.9
225	225 Total Di-PCBs				1.0537	1.000	0.00		0.000		NO	700.7		0.195	700.7
226	226 2nd Function Tri-PCBs				1.0607	1.000	0.00		0.000		NO	446.8		0.0955	446.8
227	227 3rd Function Tri-PCBs				0.9826	1.000	0.00		0.000		NO	897.3		0.338	897.3
228	228 Total Tetra-PCBs				1.0778	1.000	0.00		0.000		NO	2298		0.636	2298
229	229 3rd Function Penta-PCBs				1.3157	1.000	0.00		0.000		NO	2173		0.583	2173
230	230 4th Function Penta-PCBs				1.0735	1.000	0.00		0.000		NO	281.6		0.0908	281.6

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	4 PCB-470	19.67	19.67	1.73e6	1.101e6	1.560	1.58	NO	116.22	116.22
2	5 PCB-79	21.47	21.45	2.115e6	1.347e6	1.560	1.58	NO	117.14	117.14
3	6 PCB-4	22.12	22.12	1.113e6	7.109e5	1.560	1.57	NO	57.951	57.951
4	7 PCB-58	22.53	22.53	2.219e6	1.381e6	1.560	1.60	NO	118.27	118.27
5	8 PCB-14	23.86	23.87	1.121e6	7.067e5	1.560	1.58	NO	58.327	58.327
6	9 PCB-11	24.89	24.89	1.200e6	7.491e5	1.560	1.60	NO	57.117	57.117



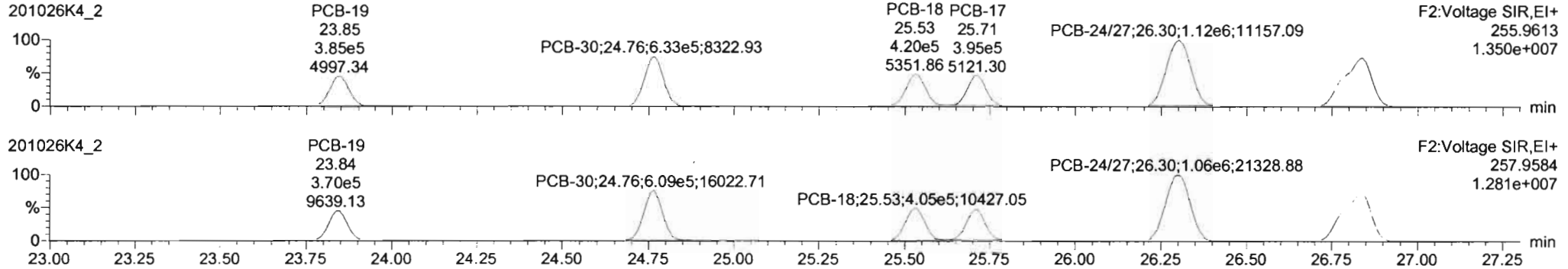


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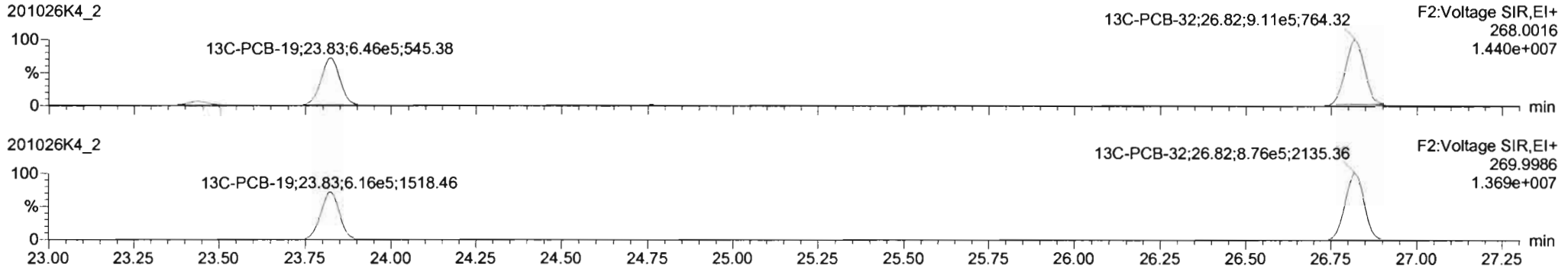
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Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

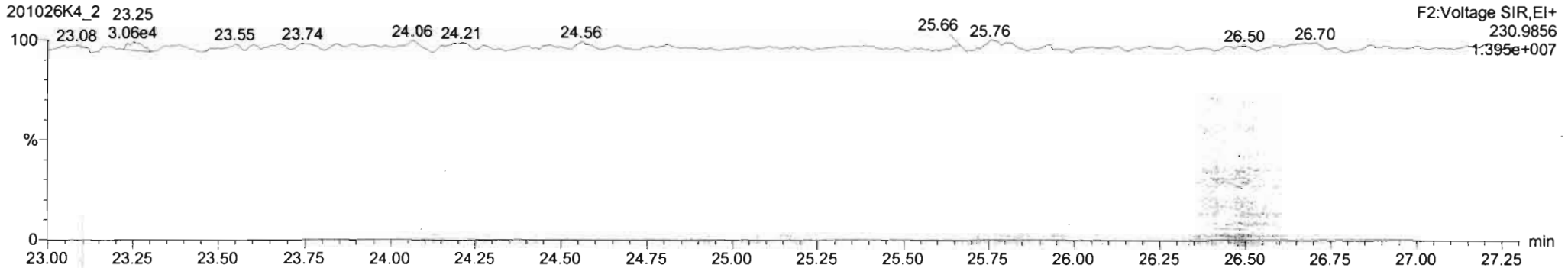
**PCB-19**



**13C-PCB-19**



**PFK2b**

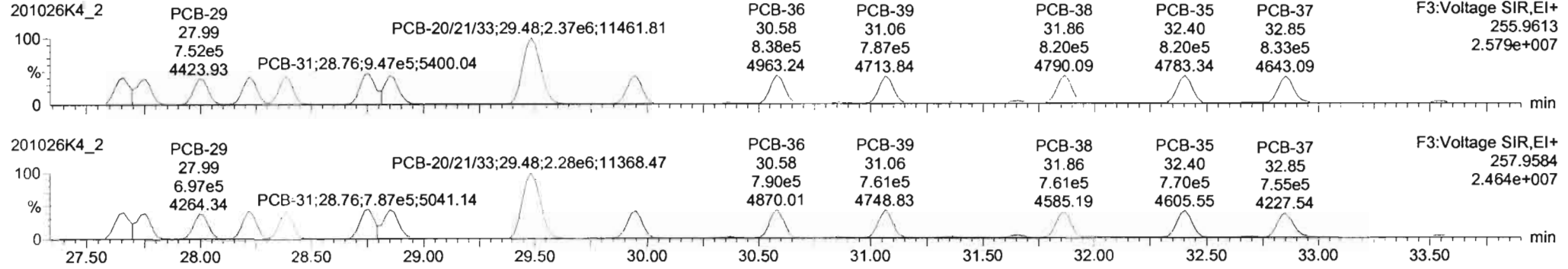


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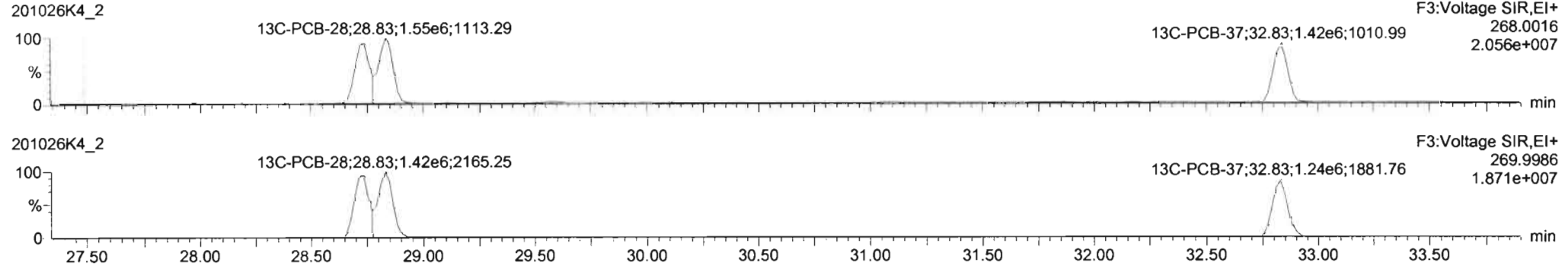
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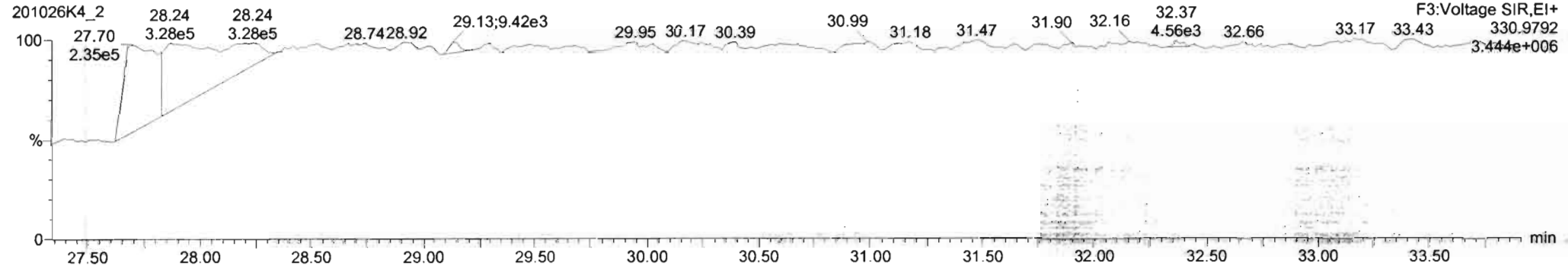
**PCB-34**



**13C-PCB-28**

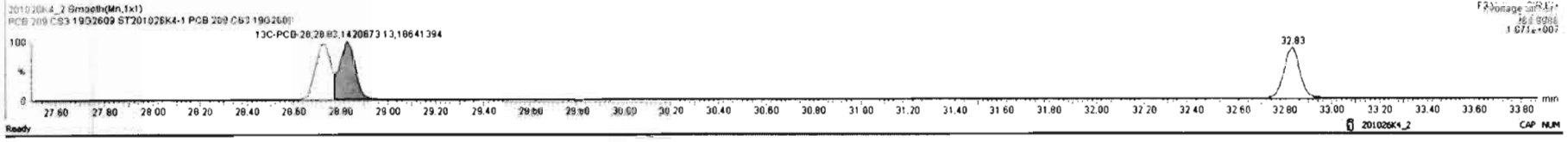
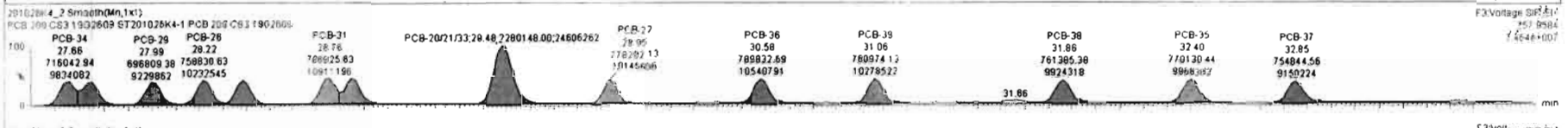
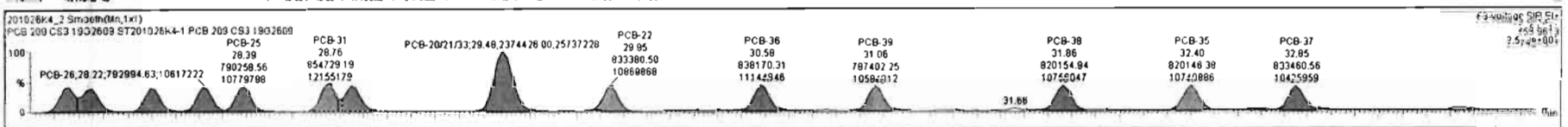


**PFK3d**



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R	RR1	RR1 Fail	Conc.	%Rec	DL	EMPC
222	13C-PCB-79	1.91e6	0.82	NO	1.0621	1.000	37.85	37.86	0.968	0.968	NO	100.9	101	0.0464	
223	13C-PCB-178	7.27e5	0.46	NO	1.0508	1.000	45.96	45.95	0.923	0.923	NO	84.91	94.9	0.0665	
224	Total Mono-PCBs				1.1685	1.000	0.00		0.000		NO	171.9		0.0308	171.9
225	Total Di-PCBs				1.0537	1.000	0.00		0.000		NO	700.7		0.195	700.7
226	2nd Function Tri-PCBs				1.0807	1.000	0.00		0.000		NO	446.8		0.0855	446.9
227	3rd Function Tri-PCBs				0.9028	1.000	0.00		0.000		NO	897.3		0.338	897.3
228	Total Tetra-PCBs				1.0778	1.000	0.00		0.000		NO	2296		0.636	2296
229	3rd Function Penta-PCBs				1.3157	1.000	0.00		0.000		NO	2173		0.583	2173
230	4th Function Penta-PCBs				1.0735	1.000	0.00		0.000		NO	281.6		0.0908	281.6

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	S* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	16 PCB-34	27.84	27.86	7.529e5	7.180e5	1.040	1.05	NO	52.271	52.271
2	19 PCB-23	27.73	27.75	7.272e5	7.290e5	1.040	1.07	NO	57.395	57.395
3	20 PCB-29	27.99	27.99	7.516e5	6.968e5	1.040	1.08	NO	54.581	54.581
4	21 PCB-26	28.23	28.22	7.920e5	7.589e5	1.040	1.04	NO	55.313	55.313
5	22 PCB-25	28.37	28.39	7.903e5	7.354e5	1.040	1.08	NO	54.038	54.038
6	23 PCB-31	28.75	28.76	8.547e5	7.869e5	1.040	1.09	NO	53.300	53.300

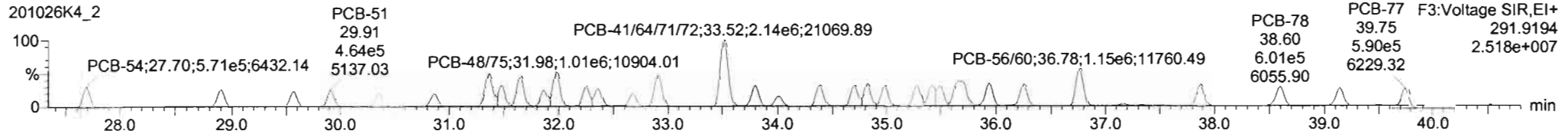
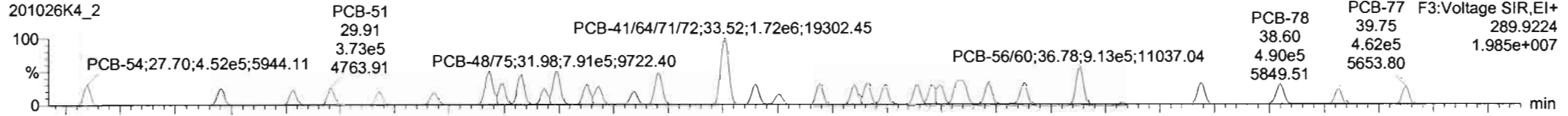


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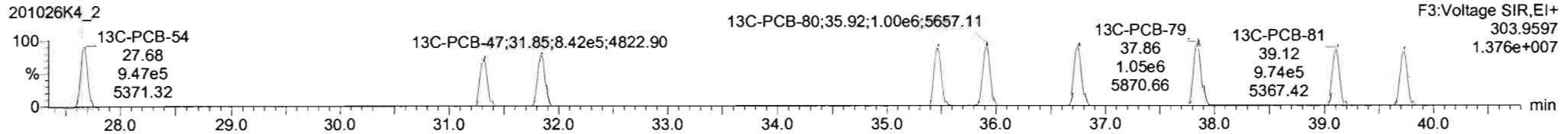
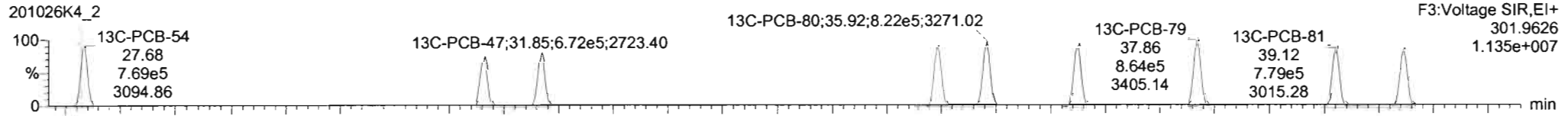
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Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

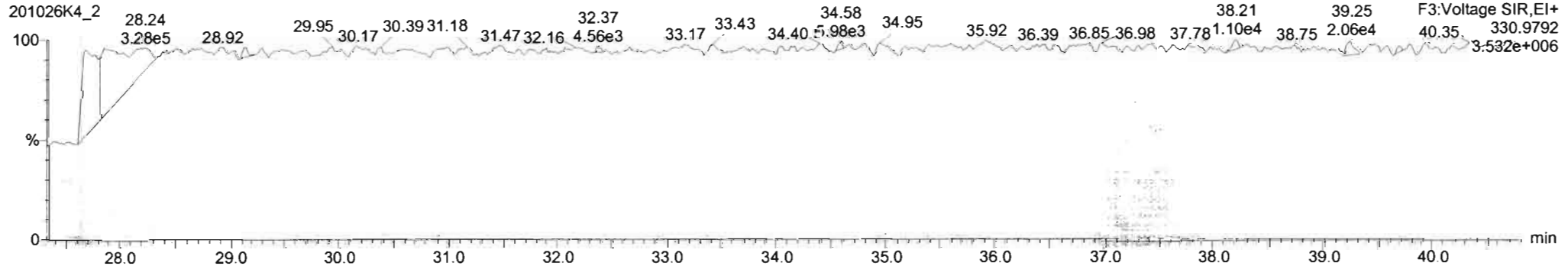
**PCB-54**



**13C-PCB-54**



**PFK3a**

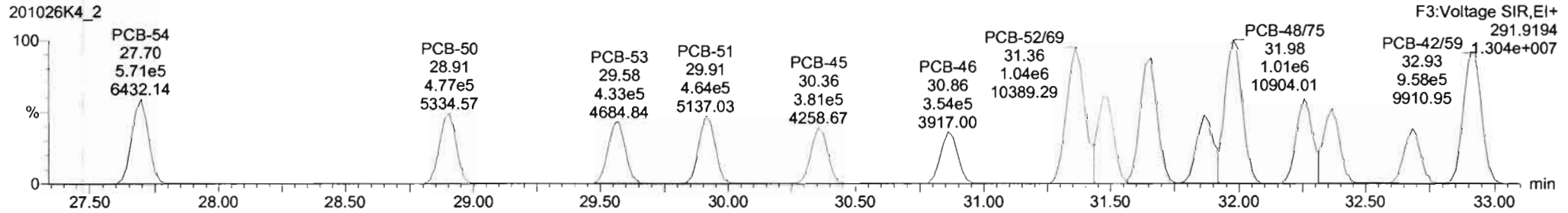
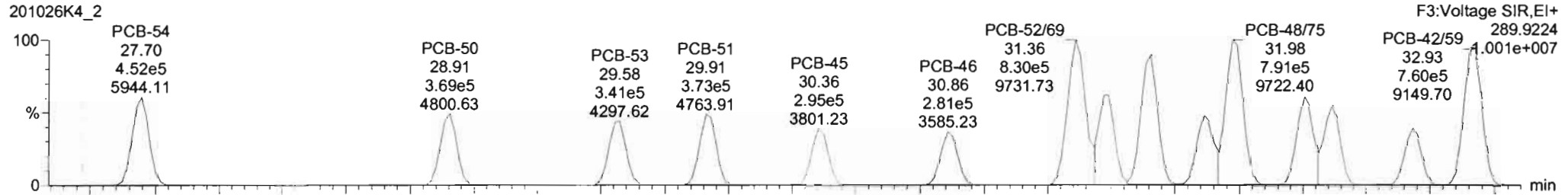


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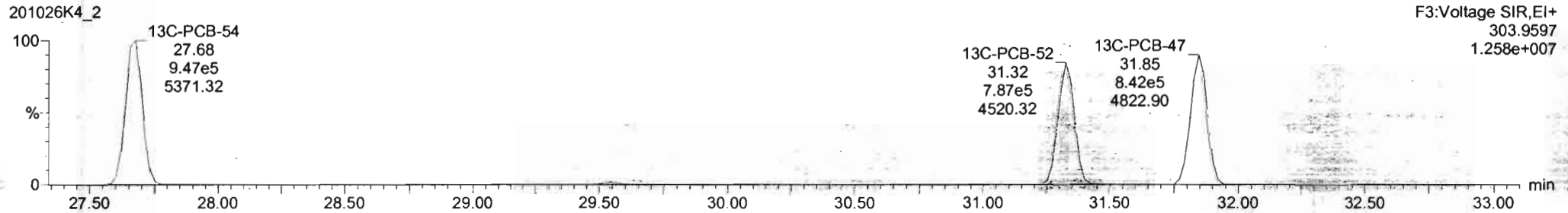
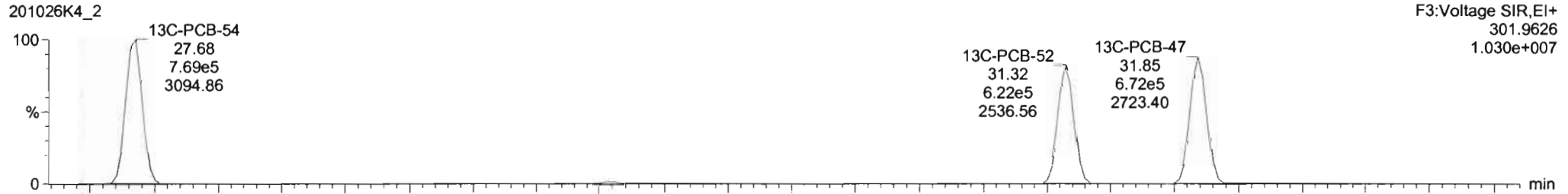
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Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

**PCB-50**



**13C-PCB-52**



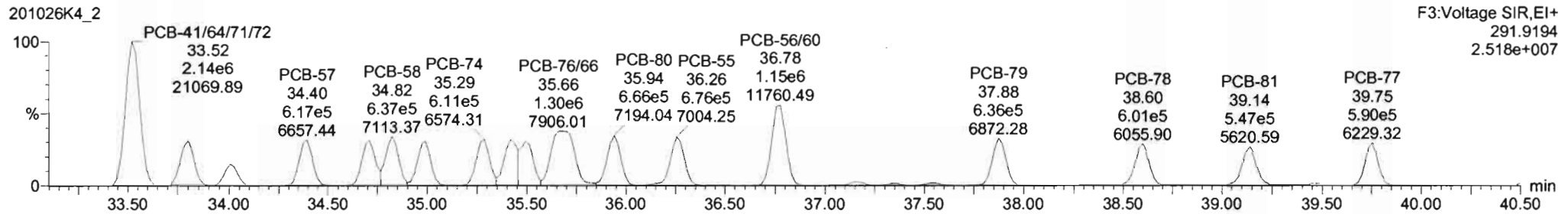
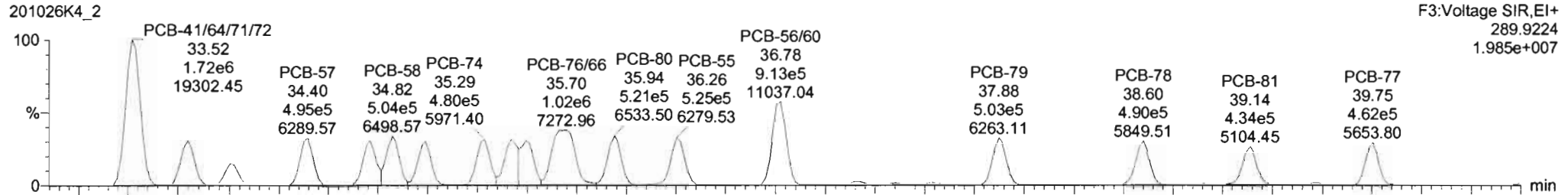
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Last Altered: Wednesday, October 28, 2020 09:19:54 Pacific Daylight Time

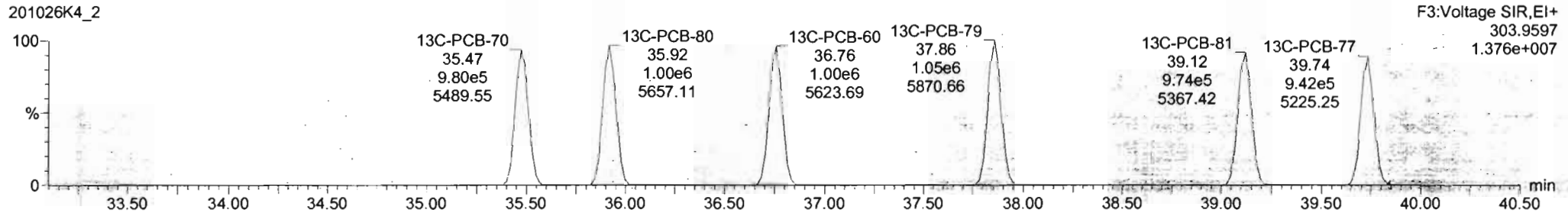
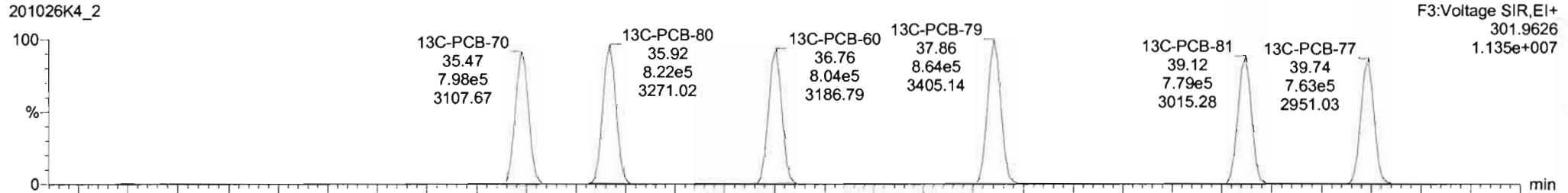
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Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

PCB-68

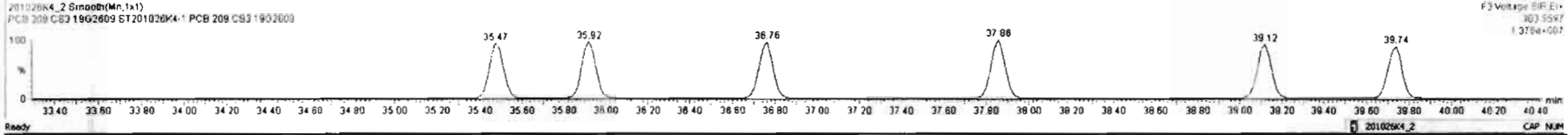
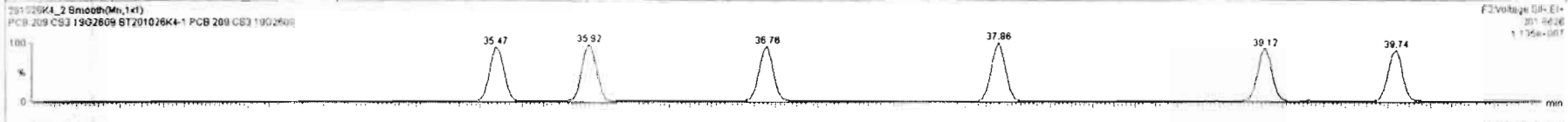
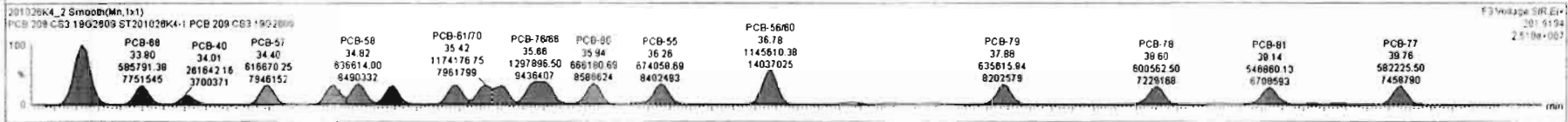
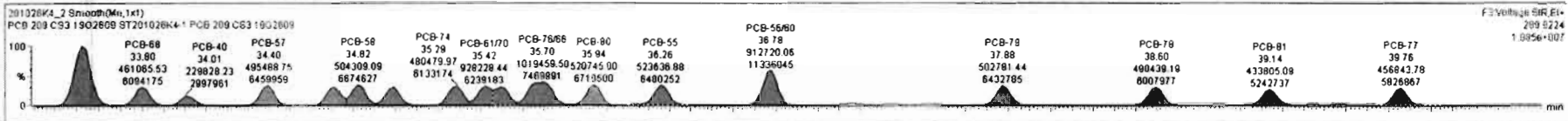


13C-PCB-60



#	Name	Resp	RA	n/y	RRF	wtAol	Pred.RT	RT	Pred.R	RRT	RRT Fal	Conc	%Rec	DL	EMPC
222	13C-PCB-70	1.91e5	0.62	NO	1.0221	1.000	37.85	37.86	0.998	0.998	NO	100.9	101	0.0464	
223	13C-PCB-176	7.27e5	0.46	NO	1.0208	1.000	45.96	45.95	0.923	0.923	NO	94.91	94.9	0.0665	
224	Total Mono-PCBs				1.1665	1.000	0.00		0.000		NO	171.9		0.0308	171.9
225	Total Di-PCBs				1.0537	1.000	0.00		0.000		NO	700.7		0.195	700.7
226	2nd Function Tri-PCBs				1.0807	1.000	0.00		0.000		NO	446.8		0.0855	446.8
227	3rd Function Tri-PCBs				0.9828	1.000	0.00		0.000		NO	897.3		0.338	897.3
228	Total Tetra-PCBs				1.0778	1.000	0.00		0.000		NO	2298		0.636	2298
229	3rd Function Penta-PCBs				1.2157	1.000	0.00		0.000		NO	2173		0.583	2173
230	4th Function Penta-PCBs				1.0735	1.000	0.00		0.000		NO	281.6		0.0908	281.6

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	PCB-54	27.70	27.70	4.515e5	5.700e5	0.770	0.78	NO	55.150	55.150
2	PCB-50	28.91	28.91	3.895e5	4.771e5	0.770	0.77	NO	56.071	56.071
3	PCB-53	29.56	29.56	3.406e5	4.329e5	0.770	0.78	NO	55.041	55.041
4	PCB-51	29.82	29.81	3.726e5	4.636e5	0.770	0.80	NO	55.881	55.881
5	PCB-45	30.36	30.36	2.947e5	3.812e5	0.770	0.77	NO	55.845	55.845
6	PCB-46	30.86	30.86	2.810e5	3.544e5	0.770	0.79	NO	54.254	54.254

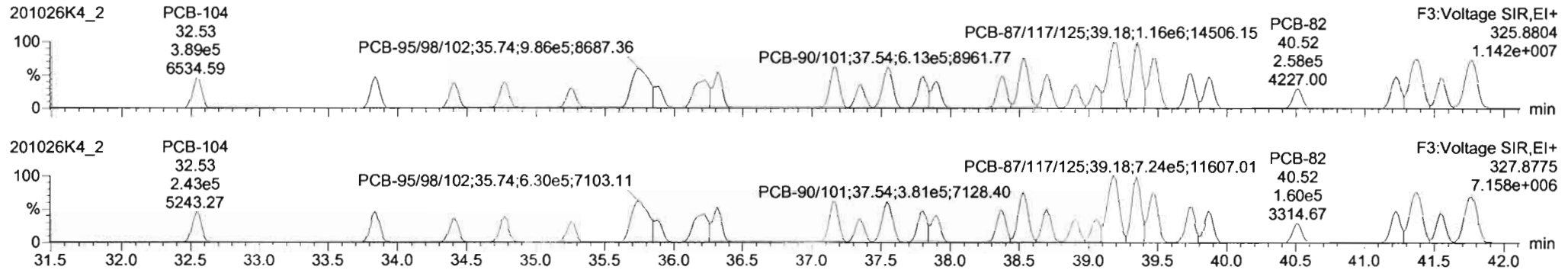


Dataset: Untitled

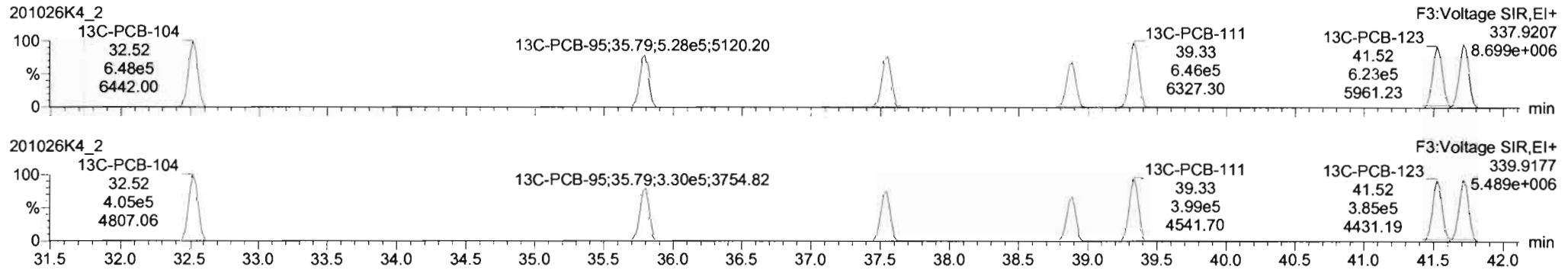
Last Altered: Wednesday, October 28, 2020 09:19:54 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

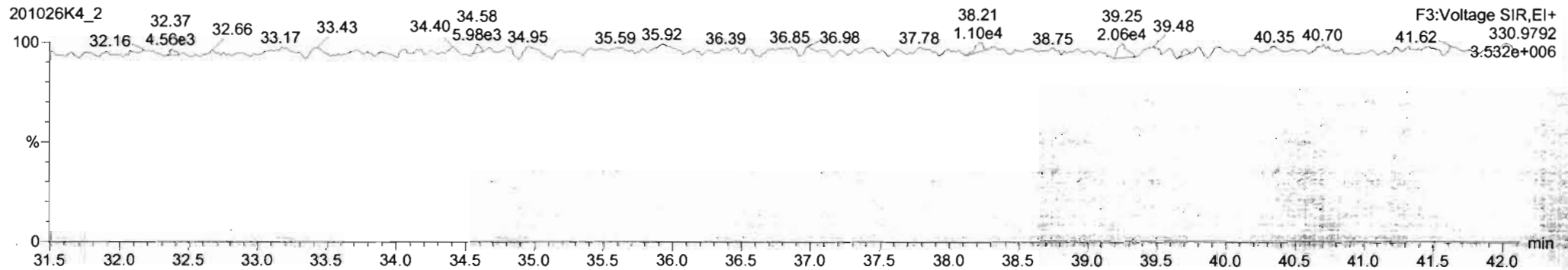
**PCB-104**



**13C-PCB-104**



**PFK3b**



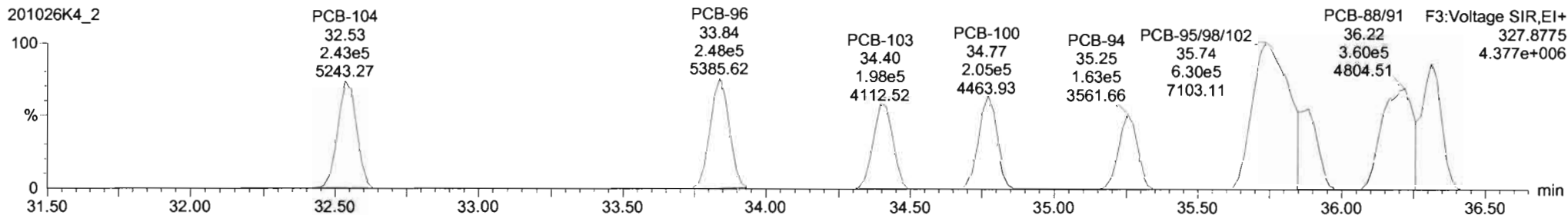
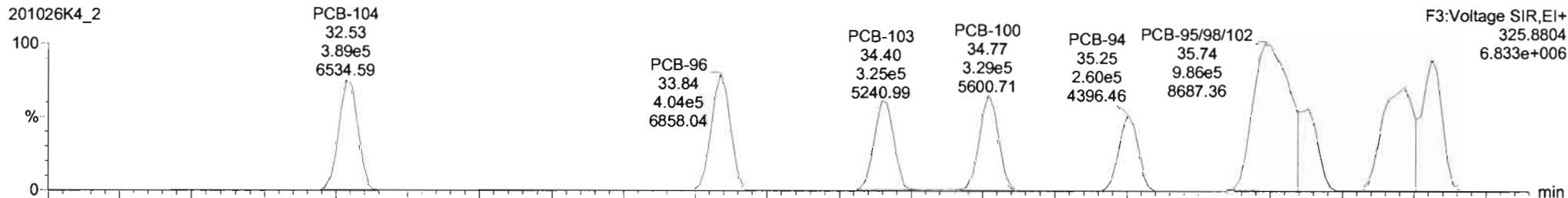


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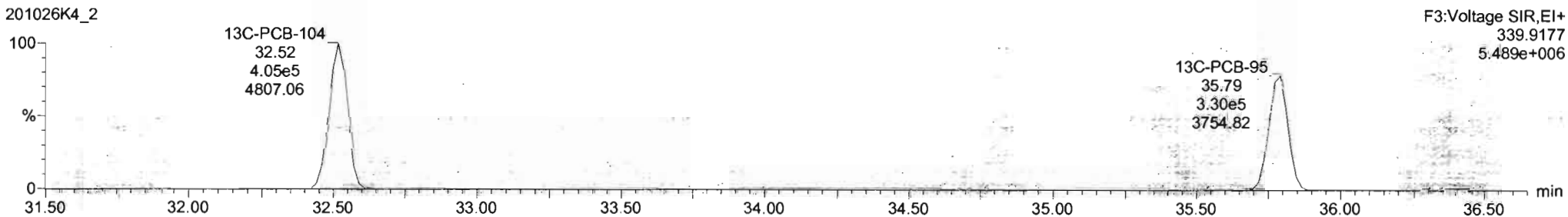
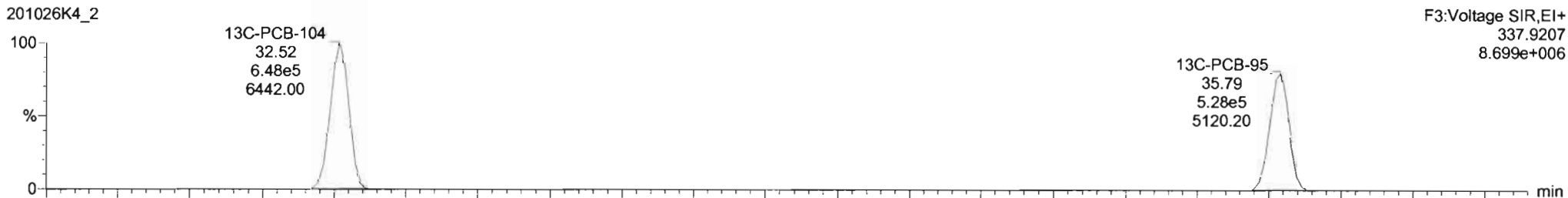
Last Altered: Wednesday, October 28, 2020 09:19:54 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

**PCB-96**



**13C-PCB-95**



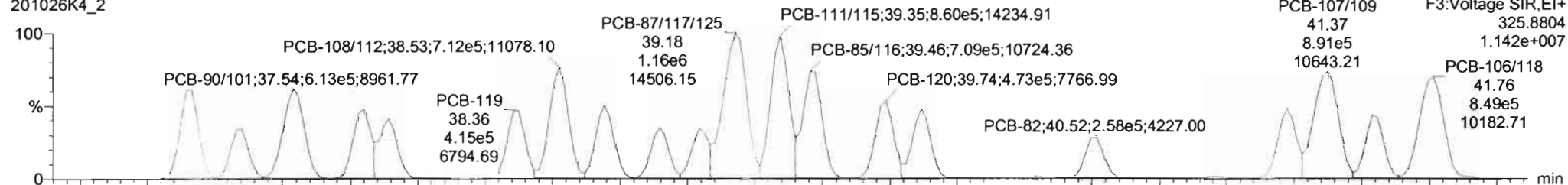
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Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

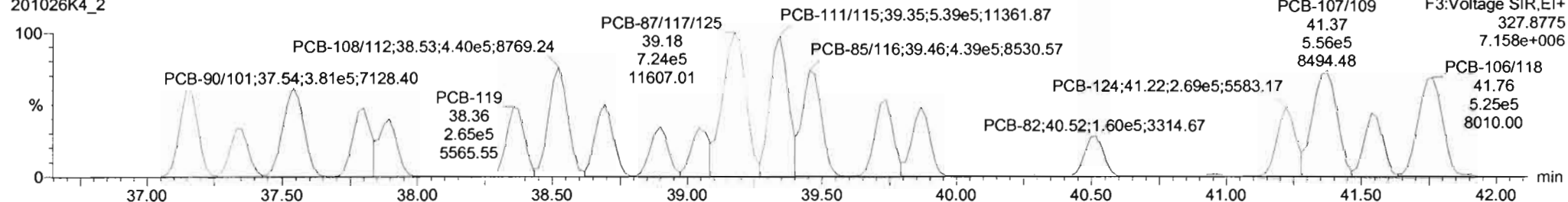
Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

**PCB-119**

201026K4\_2

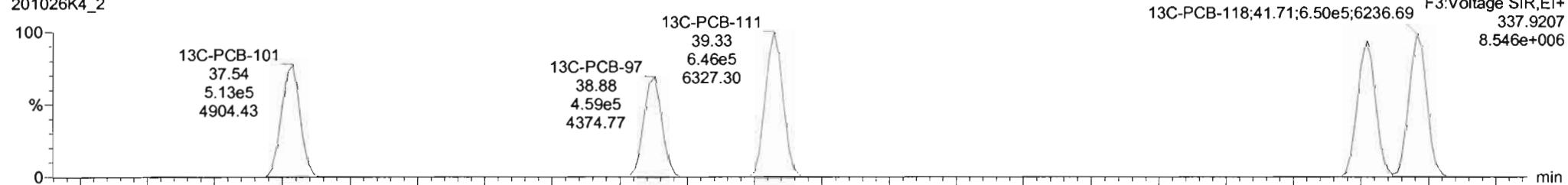


201026K4\_2

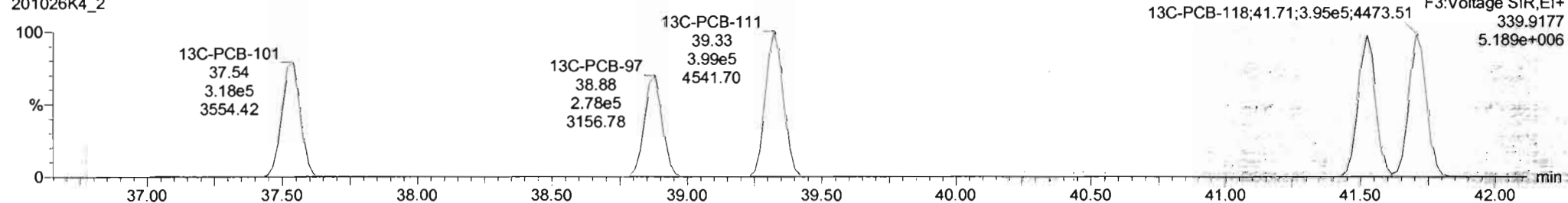


**13C-PCB-111**

201026K4\_2

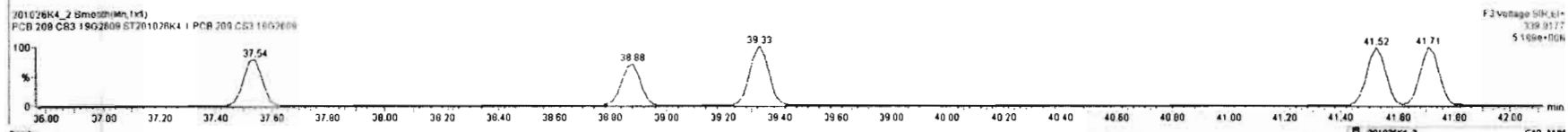
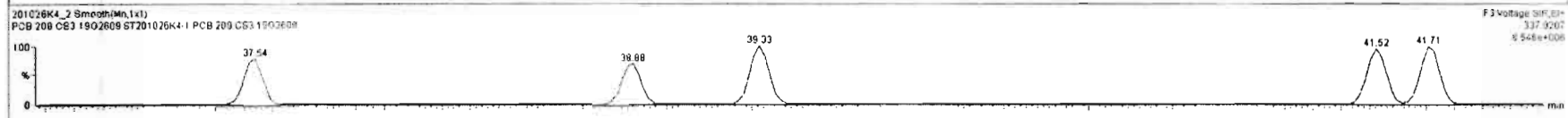
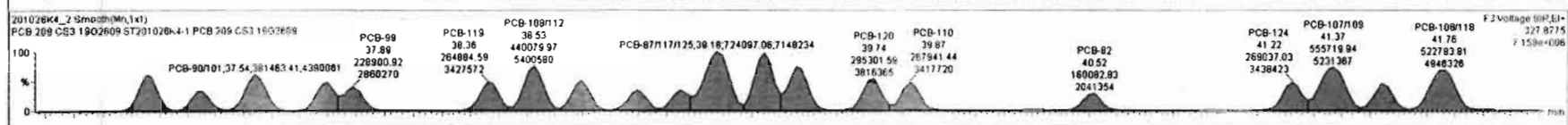


201026K4\_2



#	Name	Resp	RA	nly	RRF	wfVol	Pred.RT	RT	Pred.R	RR1	RR1 Fail	Conc	%Rec	DL	EMPC
222	13C-PCB-79	1.91e6	0.82	NO	1.0821	1.000	37.85	37.86	0.968	0.968	NO	100.9	101	0.0464	
223	13C-PCB-178	7.27e5	0.46	NO	1.0508	1.000	45.96	45.95	0.923	0.923	NO	94.91	94.9	0.0665	
224	Total Mono-PCBs				1.1665	1.000	0.00		0.000		NO	171.9		0.0308	171.9
225	Total Di-PCBs				1.0537	1.000	0.00		0.000		NO	700.7		0.195	700.7
226	2nd Function Tri-PCBs				1.0807	1.000	0.00		0.000		NO	446.8		0.0855	446.8
227	227				0.9828	1.000	0.00		0.000		NO	897.3		0.338	897.3
228	228				1.0778	1.000	0.00		0.000		NO	2298		0.638	2298
229	229				1.3157	1.000	0.00		0.000		NO	2173		0.583	2173
230	230				1.0735	1.000	0.00		0.000		NO	281.6		0.0888	281.6

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1 <sup>st</sup> Ratio (Pred)	RA	nly	EMPC	Conc
1	84 PCB-104	32.53	32.53	3.802e5	2.427e5	1.560	1.60	NO	53.472	53.472
2	85 PCB-96	33.84	33.84	4.040e5	2.484e5	1.580	1.83	NO	53.688	53.688
3	86 PCB-103	34.40	34.40	3.250e5	1.981e5	1.580	1.84	NO	53.037	53.037
4	87 PCB-100	34.77	34.77	3.282e5	2.048e5	1.580	1.81	NO	53.150	53.150
5	88 PCB-94	35.27	35.25	2.803e5	1.834e5	1.580	1.59	NO	52.077	52.077
6	89 PCB-95/98/102	35.74	35.74	9.882e5	6.302e5	1.580	1.57	NO	156.49	156.49

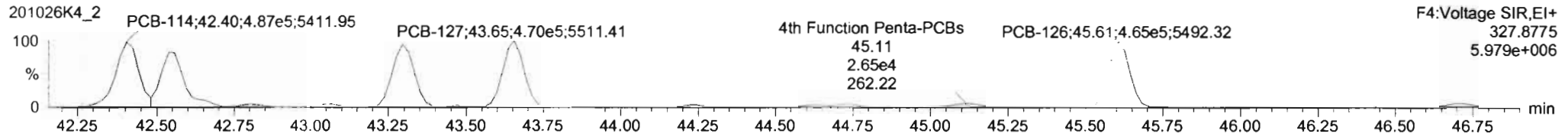
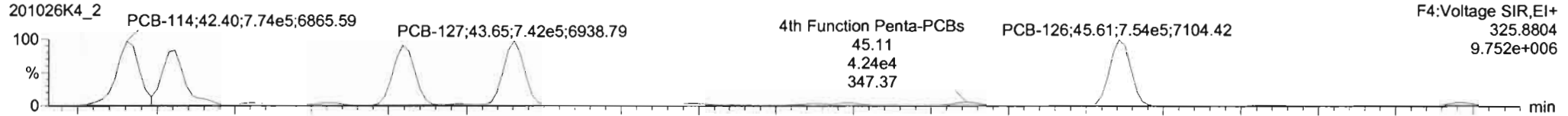


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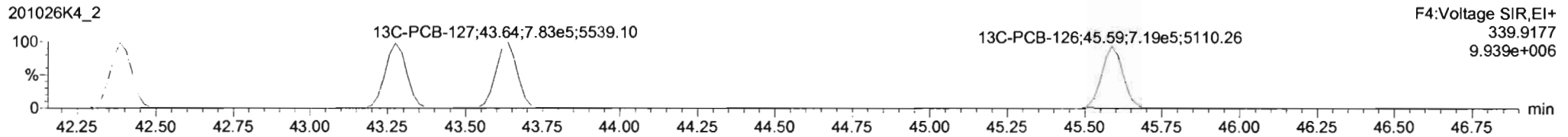
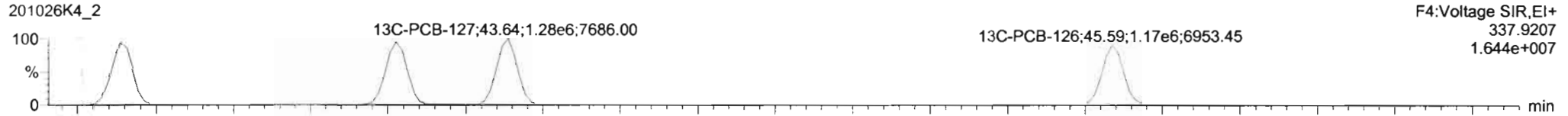
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Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

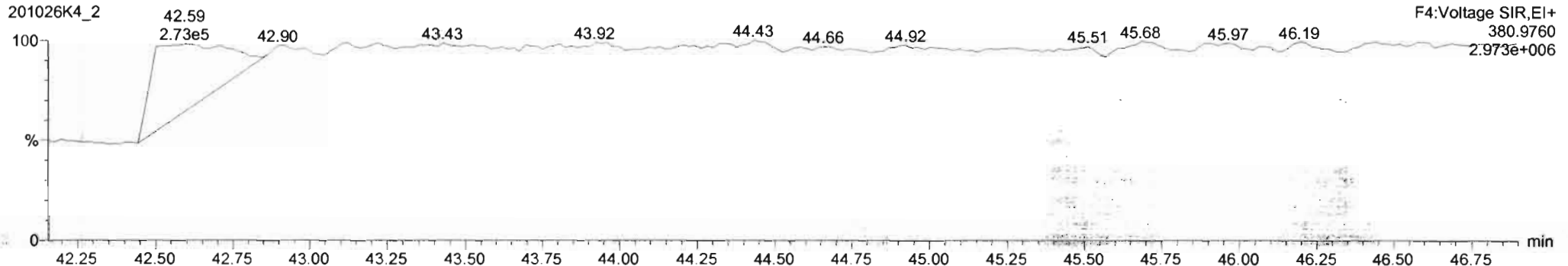
**PCB-114**



**13C-PCB-114**

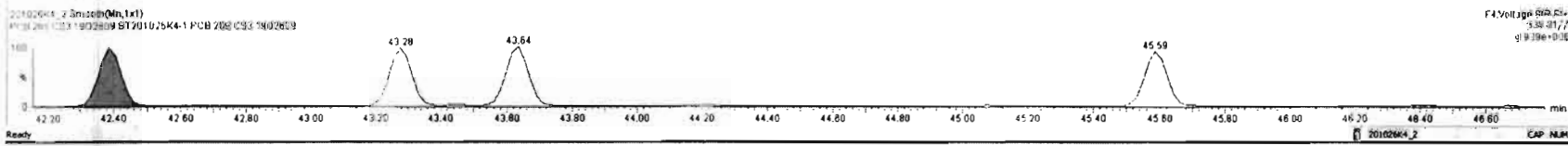
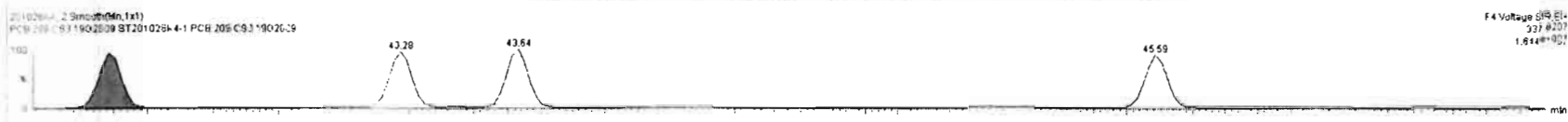


**PFK4a**



#	Name	Resp	RA	n/y	RF	wtAvt	Pred RT	RT	Pred R	RRT	RRT Fat	Conc	%Rec	DL	EMPC
222	222 13C-PCB-79	1.91e5	0.82	NO	1.0821	1.000	37.85	37.86	0.968	0.968	NO	100.9	101	0.0464	
223	223 13C-PCB-176	7.27e5	0.46	NO	1.0508	1.000	45.96	45.95	0.923	0.923	NO	94.91	94.9	0.0665	
224	224 Total Mono-PCBs				1.1665	1.000	0.00		0.000		NO	171.9		0.0008	171.9
225	225 Total Di-PCBs				1.0537	1.000	0.00		0.000		NO	700.7		0.195	700.7
226	226 2nd Function Tri-PCBs				1.0807	1.000	0.00		0.000		NO	446.8		0.0856	446.8
227	227 3rd Function Tri-PCBs				0.9809	1.000	0.00		0.000		NO	897.3		0.328	897.3
228	228 Total Tetra-PCBs				1.0778	1.000	0.00		0.000		NO	2298		0.638	2298
229	229 3rd Function Penta-PCBs				1.3157	1.000	0.00		0.000		NO	2173		0.583	2173
230	230 4th Function Penta-PCBs				1.0735	1.000	0.00		0.000		NO	281.6		0.0808	281.6

#	Name	Pred RT	RT	wt Resp	m2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc
1	93 PCB-114	42.41	42.40	7.520e5	4.739e5	1.580	1.59	NO	55.545	55.545
2	94 PCB-122	42.56	42.56	6.645e5	4.121e5	1.580	1.81	NO	58.908	58.908
3	95 PCB-105	43.29	43.29	7.124e5	4.483e5	1.580	1.58	NO	55.736	55.736
4	96 PCB-127	43.65	43.65	7.421e5	4.697e5	1.580	1.58	NO	55.496	55.496
5	97 PCB-126	45.60	45.61	7.683e5	4.697e5	1.580	1.84	NO	55.962	55.962



Dataset: Untitled

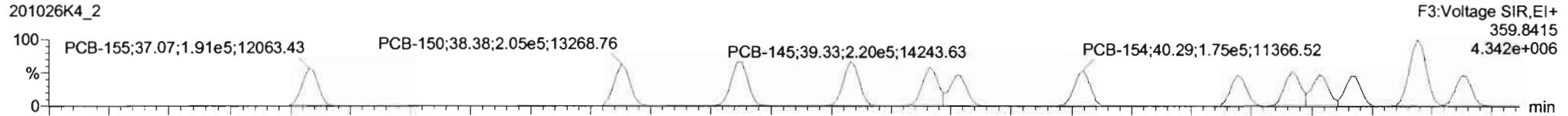
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Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

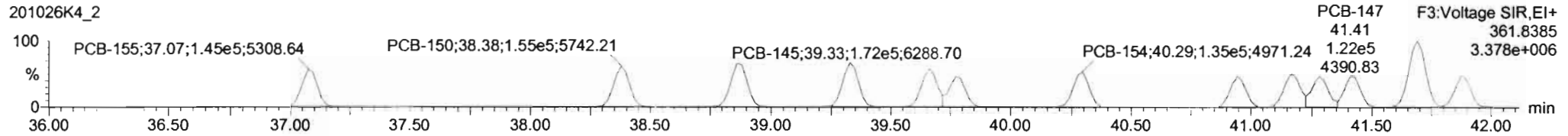
Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

**PCB-155**

201026K4\_2

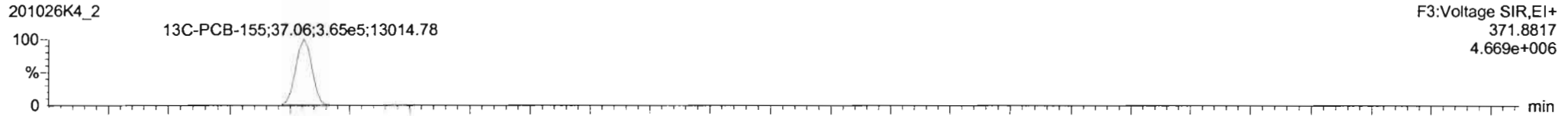


201026K4\_2

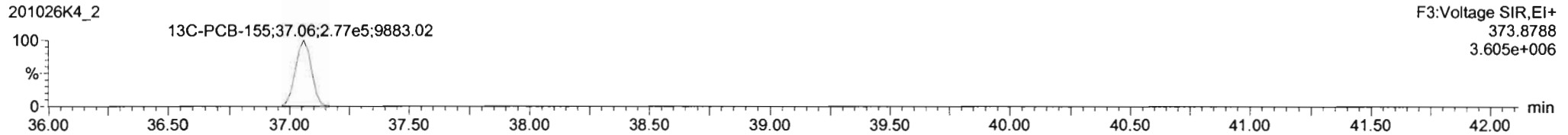


**13C-PCB-155**

201026K4\_2

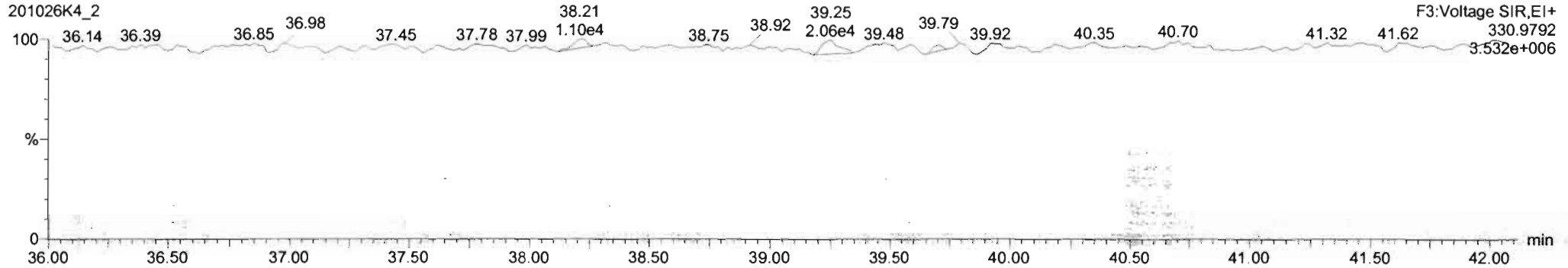


201026K4\_2



**PFK3c**

201026K4\_2

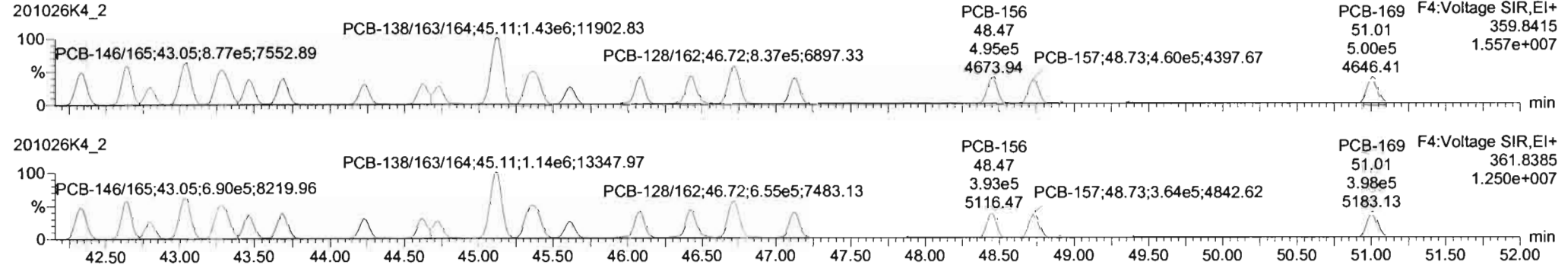


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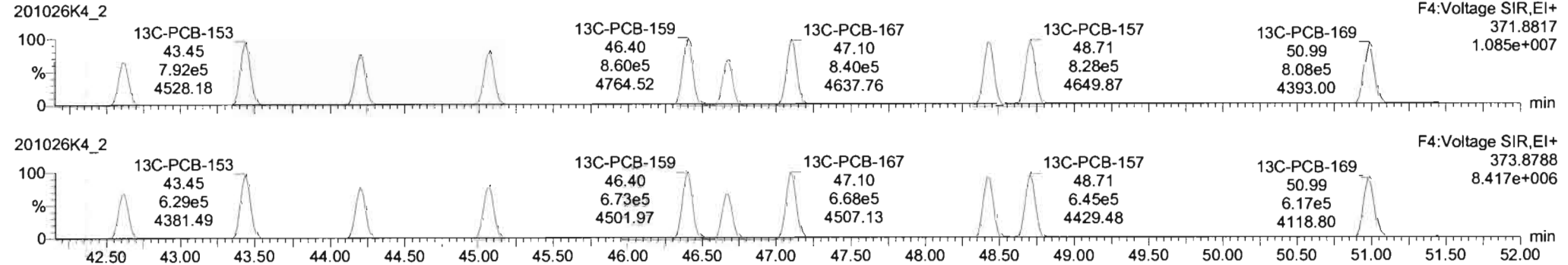
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Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

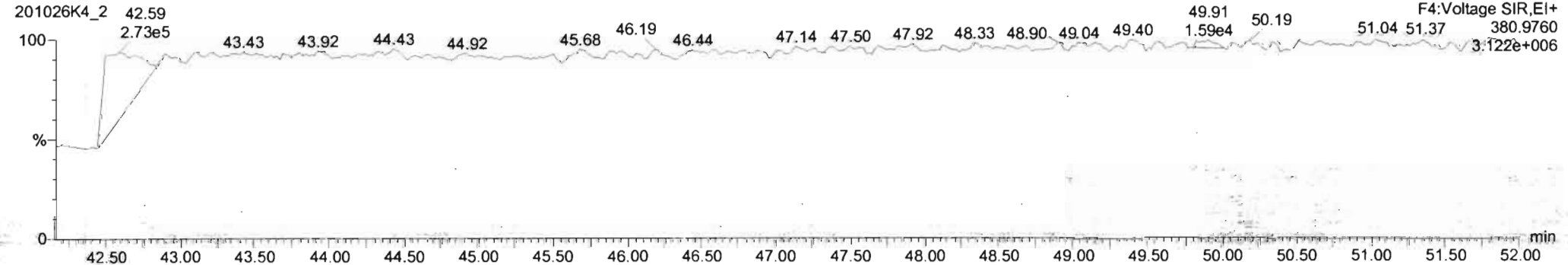
**PCB-134/143**



**13C-PCB-153**



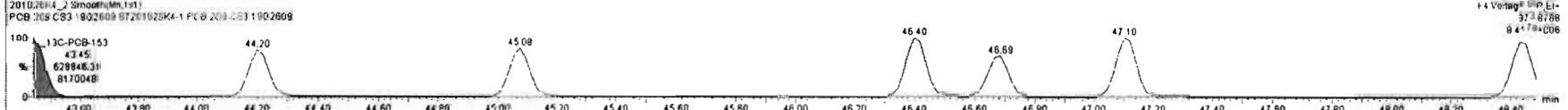
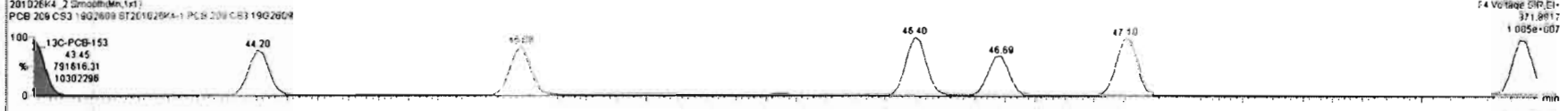
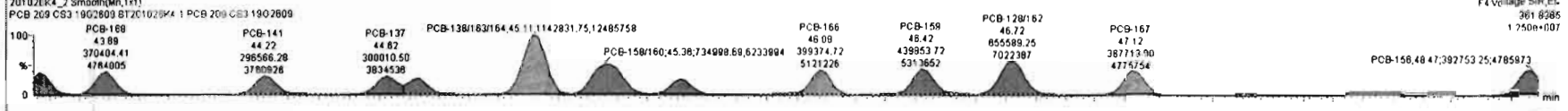
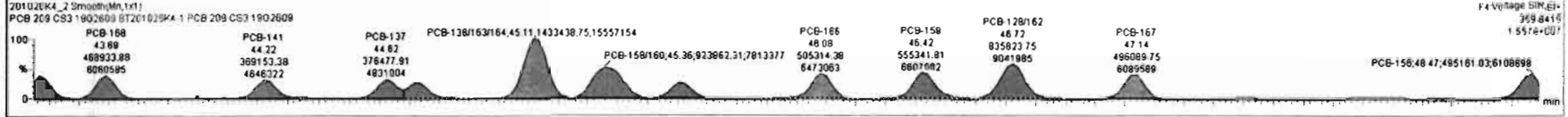
**PFK4b**



201026K4\_2 - ST201026K4-1 PCB 209 CS3 1902609 - PCB 209 CS3 1902609

#	Name	Resp	RA	n/y	RPF	wtAval	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
232	232 4th Function Hexa-PCBs				1.0016	1.000	0.00		0.000			1525		0.508	1526
233	233 Total Hepta-PCBs				1.3551	1.000	0.00		0.000		NO	1307		1.03	1307
234	234 4th Function Octa-PCBs				1.0008	1.000	0.00		0.000		NO	478.0		0.162	478.0
235	235 5th Function Octa-PCBs				1.1489	1.000	0.00		0.000		NO	163.8		0.0615	163.8
236	236 Total Nona-PCBs				0.9523	1.000	0.00		0.000		NO	161.5		0.0644	161.5
237	237 Deca-Cl				0.9664	1.000	0.00		0.000		NO	52.42		0.0112	52.42
238	238 Total PCBs														
239	239 Total Mono-Isotopes														
240	240 Total Di-Isotopes														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	111 PCB-134/143	42.33	42.33	6.789e5	5.347e5	1.240	1.27	NO	112.58	112.58
2	112 PCB-131/133	42.85	42.85	7.212e5	5.677e5	1.240	1.27	NO	110.55	110.55
3	113 PCB-142	42.81	42.80	3.233e5	2.539e5	1.240	1.27	NO	53.872	53.872
4	114 PCB-148/165	43.05	43.05	6.766e5	6.898e5	1.240	1.27	NO	108.47	108.47
5	115 PCB-132/161	43.29	43.26	8.801e5	6.974e5	1.240	1.26	NO	108.44	109.44
6	116 PCB-153	43.48	43.47	4.705e5	3.821e5	1.240	1.30	NO	54.756	54.756





Dataset: Untitled

Last Altered: Wednesday, October 28, 2020 09:19:54 Pacific Daylight Time

Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

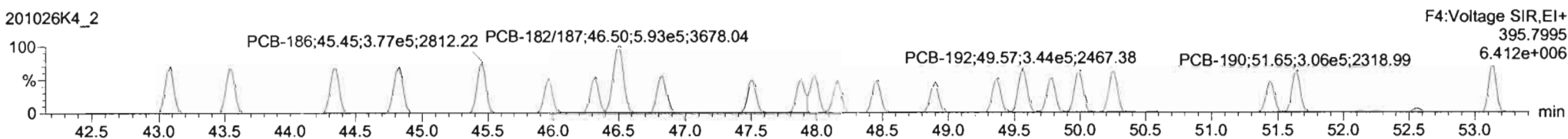
Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

**PCB-188**

201026K4\_2

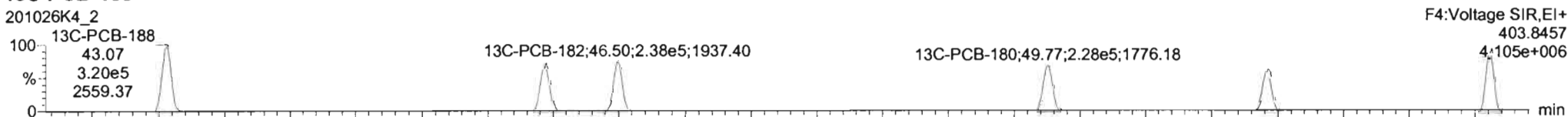


201026K4\_2

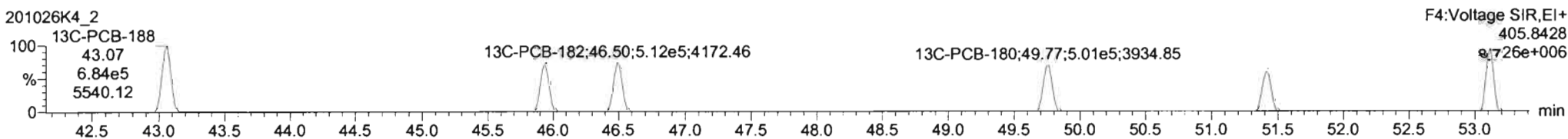


**13C-PCB-188**

201026K4\_2

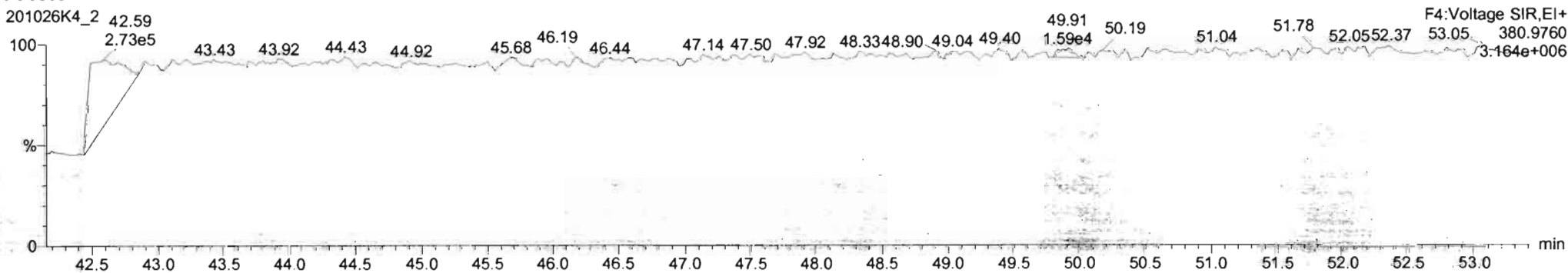


201026K4\_2



**PFK4c**

201026K4\_2



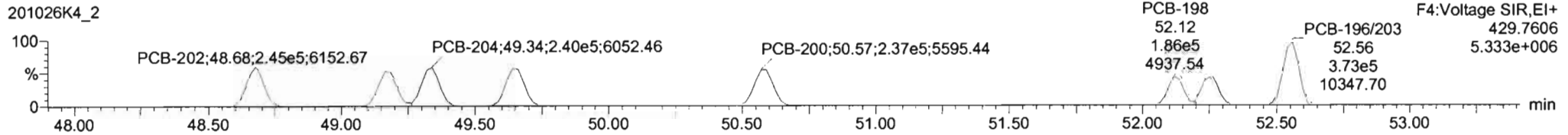
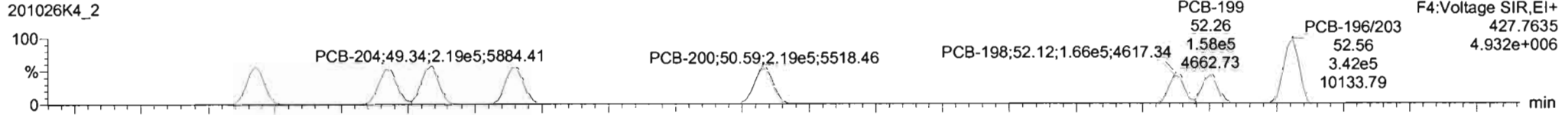
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Last Altered: Wednesday, October 28, 2020 09:19:54 Pacific Daylight Time

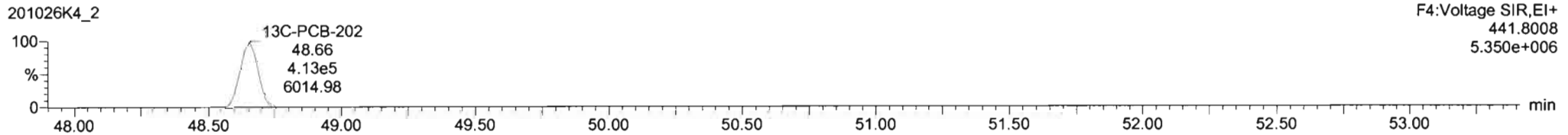
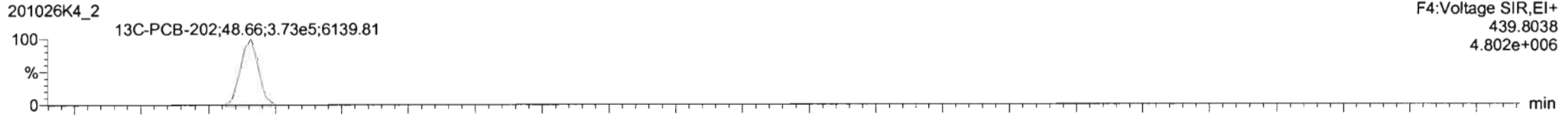
Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

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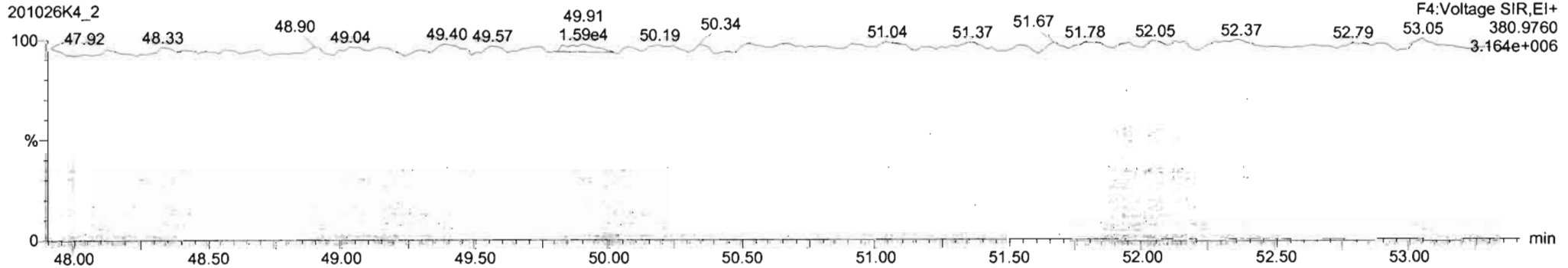
**PCB-202**



**13C-PCB-202**



**PFK4d**



Dataset: Untitled

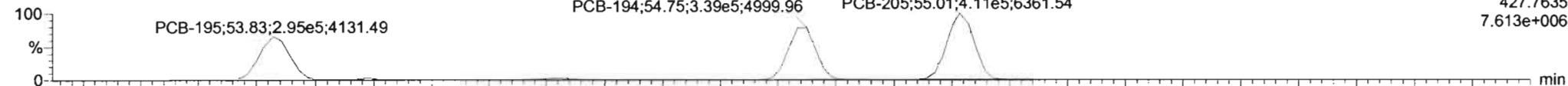
Last Altered: Wednesday, October 28, 2020 09:19:54 Pacific Daylight Time

Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

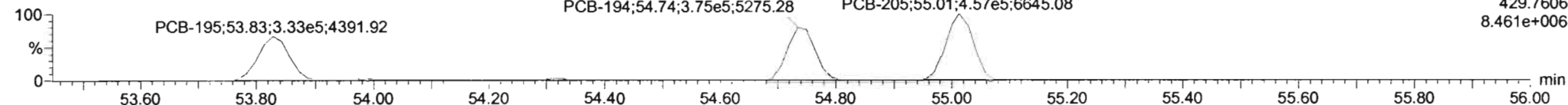
**PCB-195**

201026K4\_2



F5:Voltage SIR,EI+  
427.7635  
7.613e+006

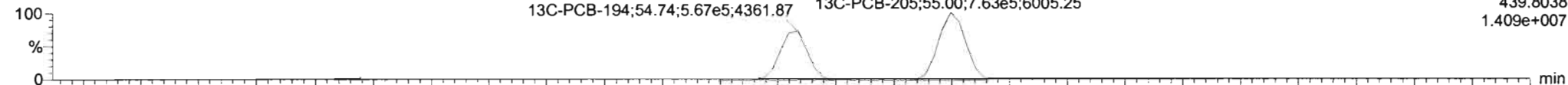
201026K4\_2



F5:Voltage SIR,EI+  
429.7606  
8.461e+006

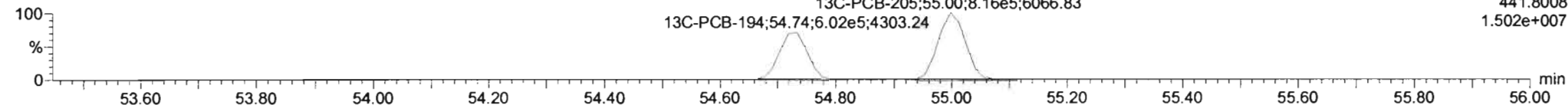
**13C-PCB-194**

201026K4\_2



F5:Voltage SIR,EI+  
439.8038  
1.409e+007

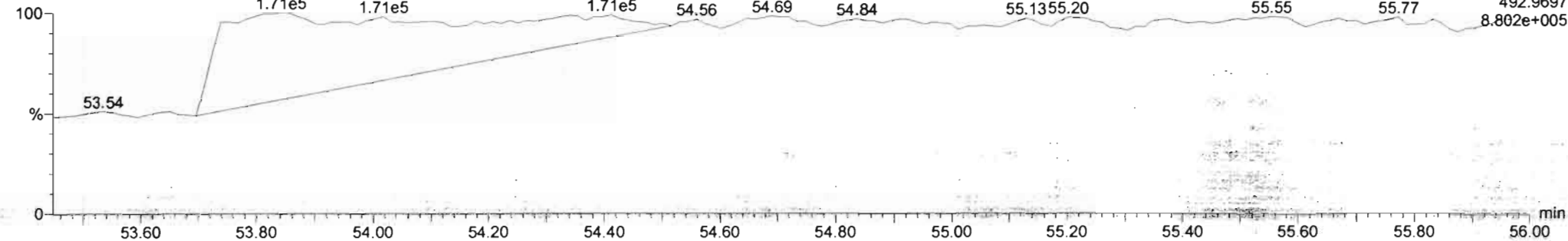
201026K4\_2



F5:Voltage SIR,EI+  
441.8008  
1.502e+007

**PFK5a**

201026K4\_2



F5:Voltage SIR,EI+  
492.9697  
8.802e+005

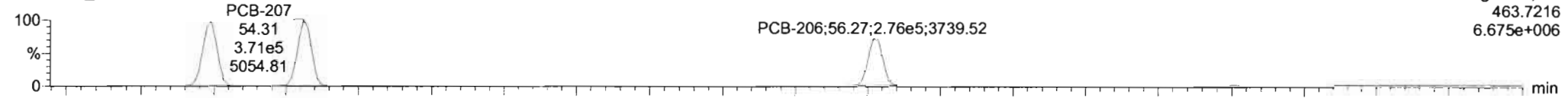
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Last Altered: Wednesday, October 28, 2020 09:19:54 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

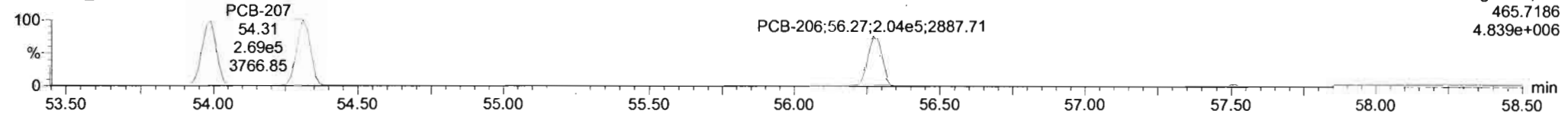
**PCB-208**

201026K4\_2



F5:Voltage SIR,EI+  
463.7216  
6.675e+006

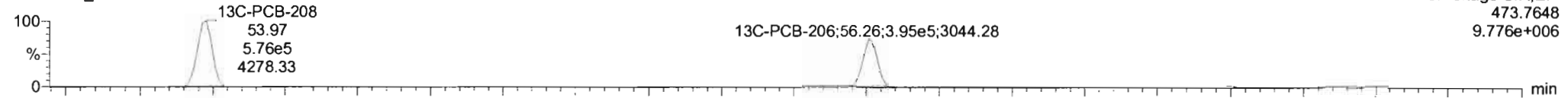
201026K4\_2



F5:Voltage SIR,EI+  
465.7186  
4.839e+006

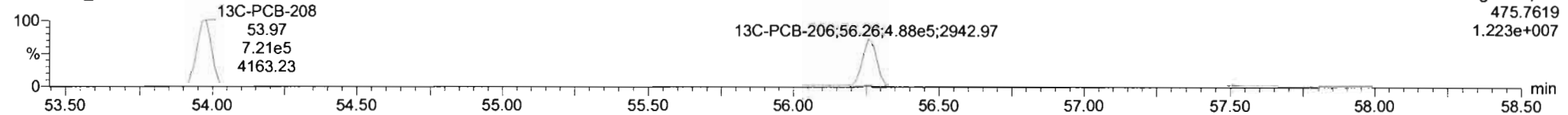
**13C-PCB-208**

201026K4\_2



F5:Voltage SIR,EI+  
473.7648  
9.776e+006

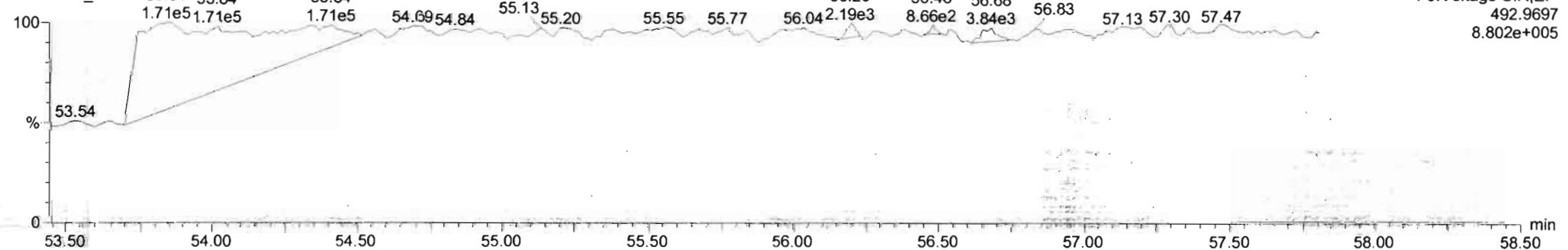
201026K4\_2



F5:Voltage SIR,EI+  
475.7619  
1.223e+007

**PFK5**

201026K4\_2



F5:Voltage SIR,EI+  
492.9697  
8.802e+005

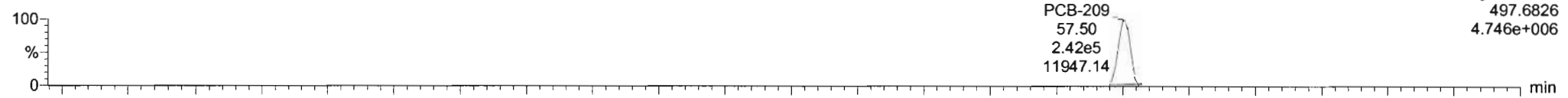
Dataset: Untitled

Last Altered: Wednesday, October 28, 2020 09:19:54 Pacific Daylight Time  
Printed: Wednesday, October 28, 2020 09:20:22 Pacific Daylight Time

Name: 201026K4\_2, Date: 28-Oct-2020, Time: 01:09:14, ID: ST201026K4-1 PCB 209 CS3 19G2609, Description: PCB 209 CS3 19G2609

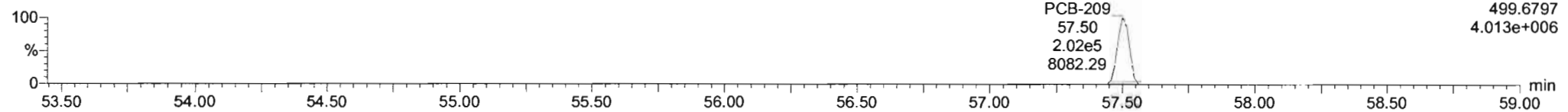
**PCB-209**

201026K4\_2



F5:Voltage SIR,EI+  
497.6826  
4.746e+006

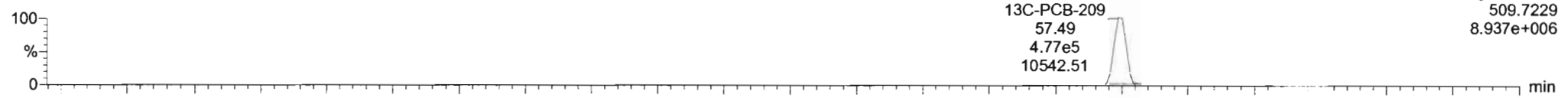
201026K4\_2



F5:Voltage SIR,EI+  
499.6797  
4.013e+006

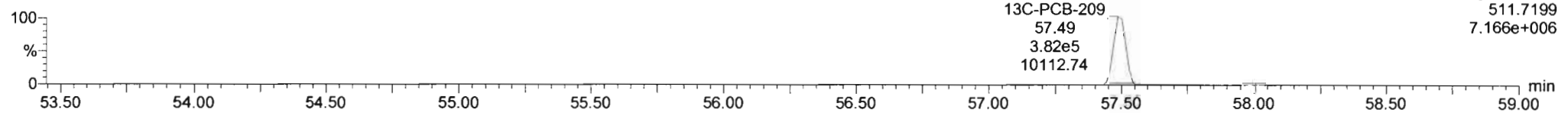
**13C-PCB-209**

201026K4\_2



F5:Voltage SIR,EI+  
509.7229  
8.937e+006

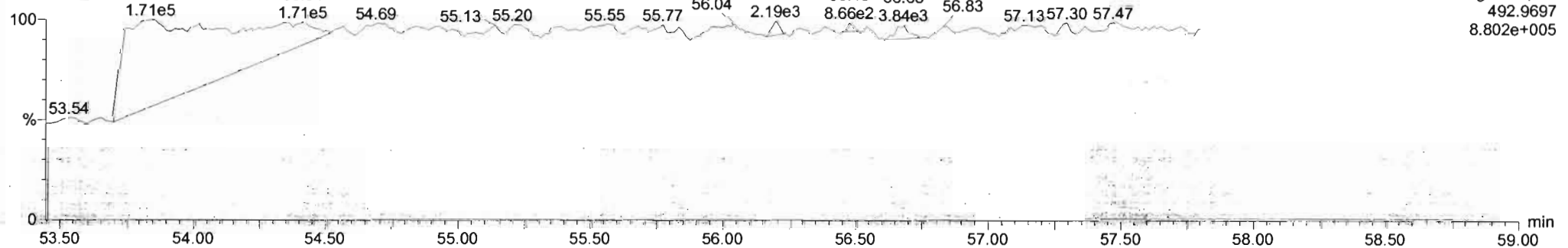
201026K4\_2



F5:Voltage SIR,EI+  
511.7199  
7.166e+006

**PFK5b**

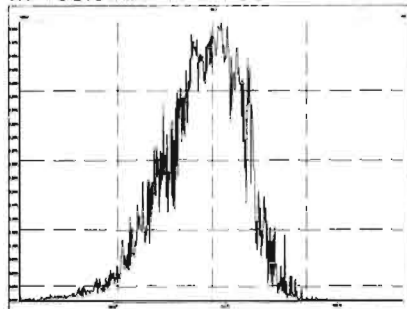
201026K4\_2



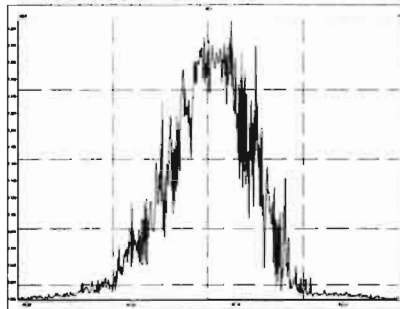
F5:Voltage SIR,EI+  
492.9697  
8.802e+005

Printed: Wednesday, October 28, 2020 13:25:29 Pacific Daylight Time

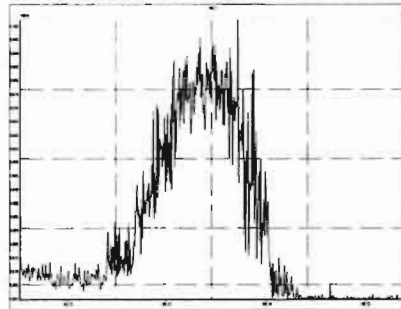
M 168.9888 R 11796



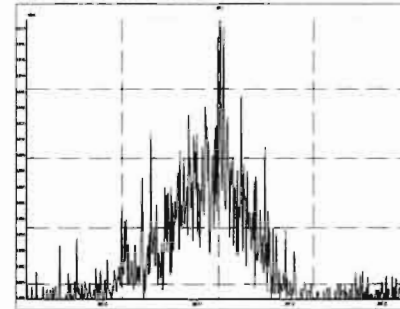
M 180.9888 R 11546



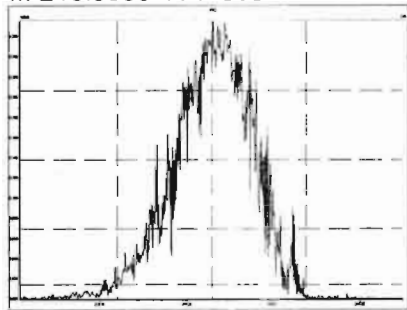
M 192.9888 R 11312



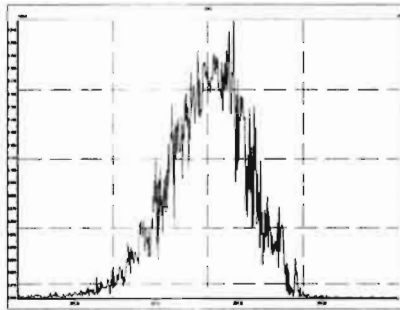
M 204.9888 R 15588



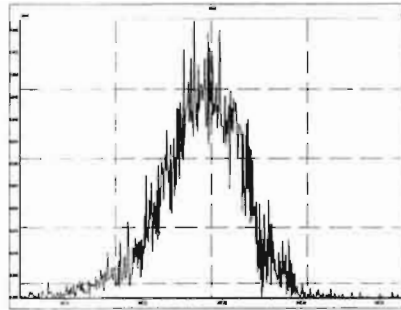
M 218.9856 R 11808



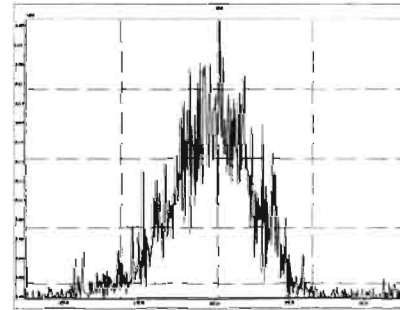
M 230.9856 R 10702



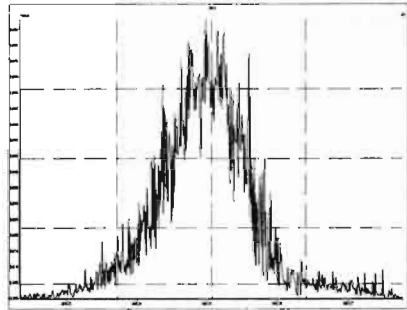
M 242.9856 R 11585



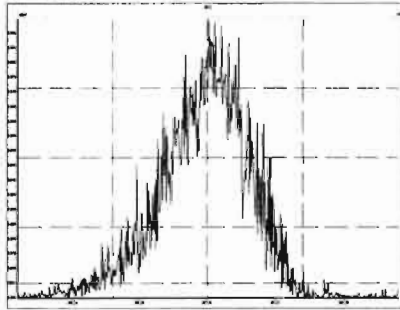
M 254.9856 R 12136



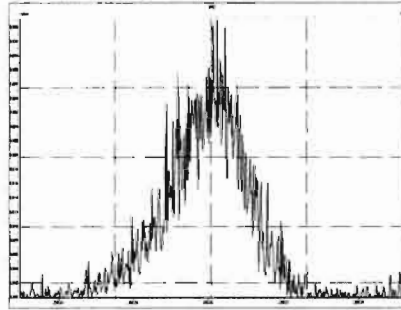
M 268.9824 R 10810



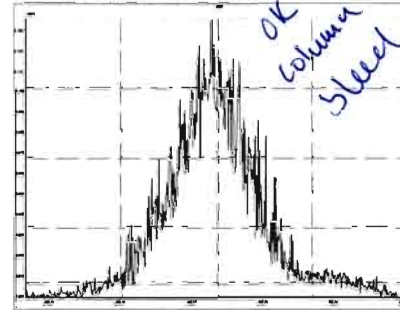
M 280.9824 R 11738



M 254.9856 R 12251

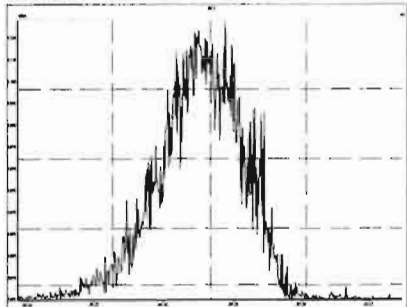


M 268.9824 R 9315

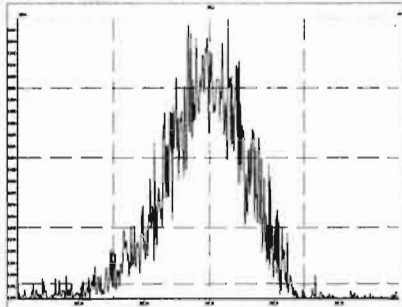


Printed: Wednesday, October 28, 2020 13:25:29 Pacific Daylight Time

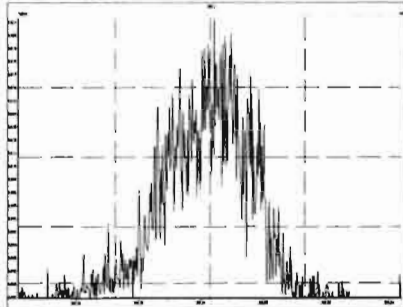
M 280.9824 R 11261



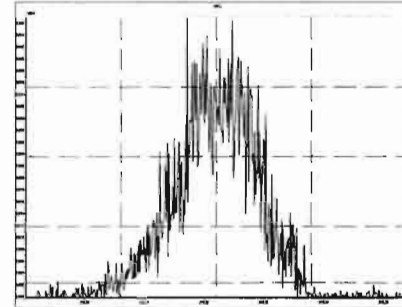
M 292.9824 R 11261



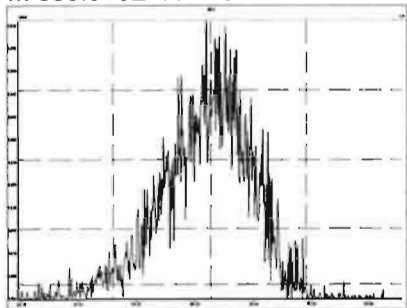
M 304.9824 R 14241



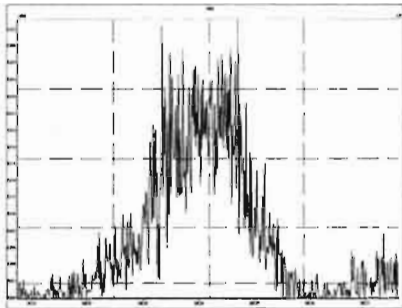
M 318.9792 R 11908



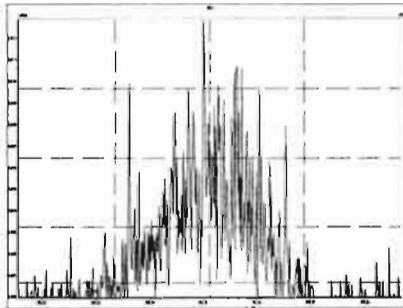
M 330.9792 R 11514



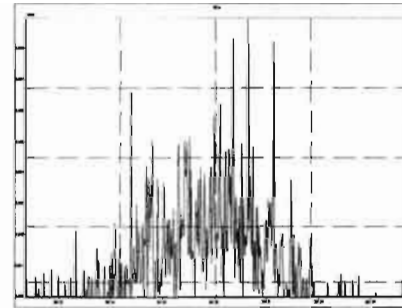
M 342.9792 R 12251



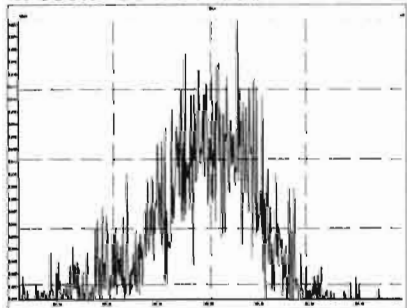
M 354.9792 R 17189



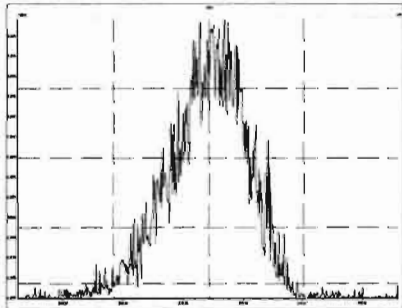
M 366.9792 R 146530



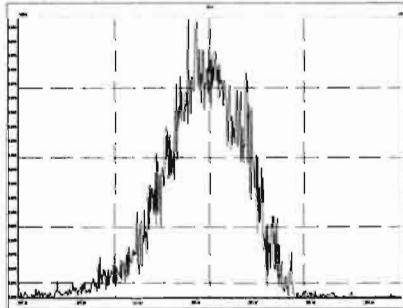
M 380.9760 R 13659



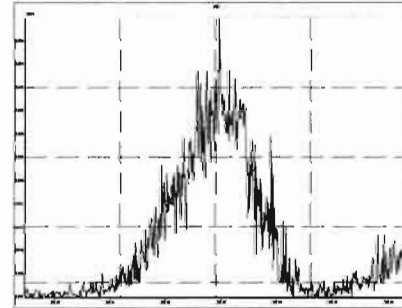
M 318.9792 R 12519



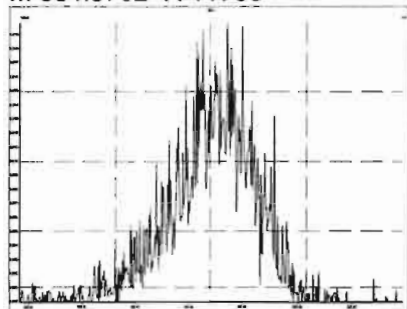
M 330.9792 R 11526



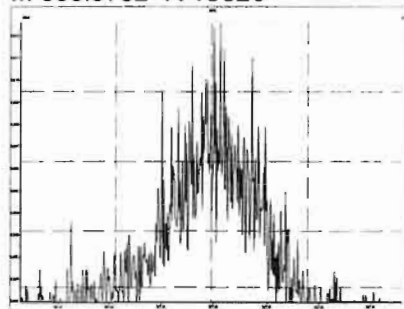
M 342.9792 R 11698



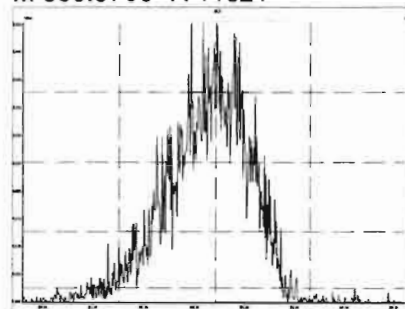
M 354.9792 R 11753



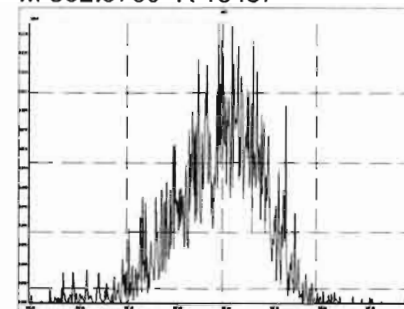
M 366.9792 R 13520



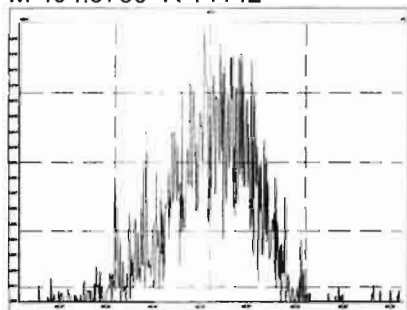
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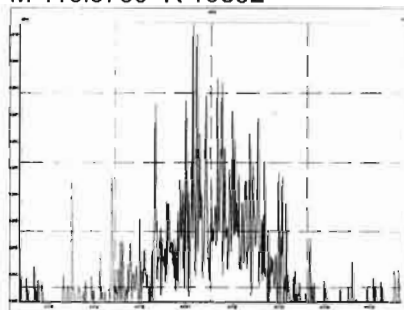
M 392.9760 R 13487



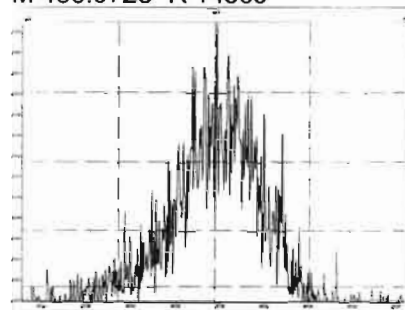
M 404.9760 R 14142



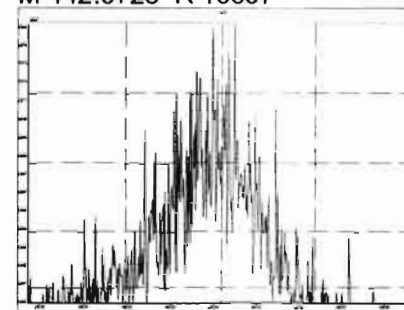
M 416.9760 R 16892



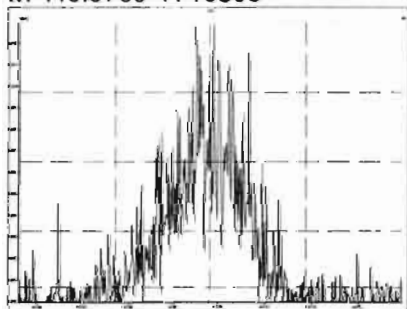
M 430.9728 R 14369



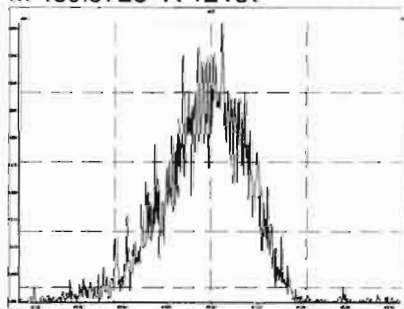
M 442.9728 R 16597



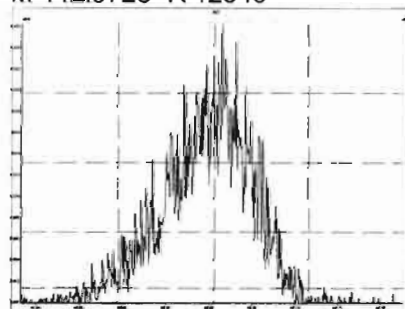
M 416.9760 R 15808



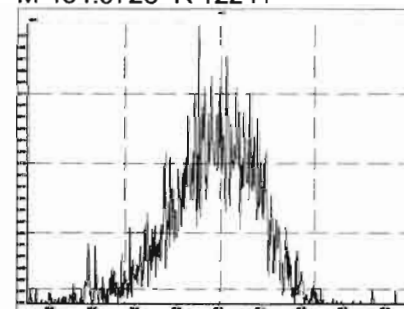
M 430.9728 R 12187



M 442.9728 R 12345



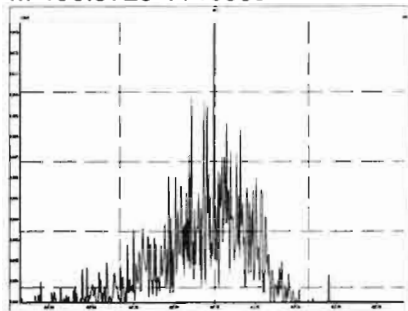
M 454.9728 R 12241



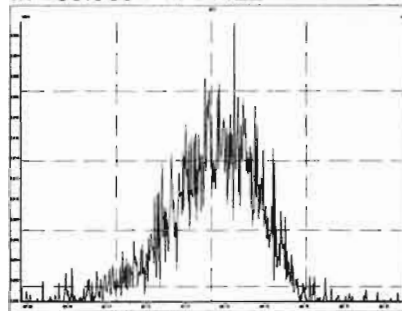


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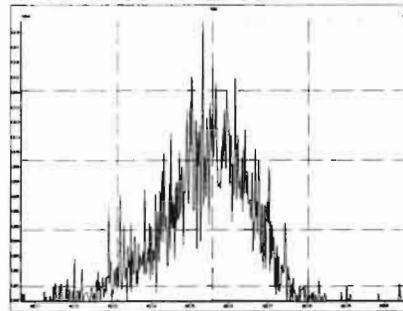
M 466.9728 R 15300



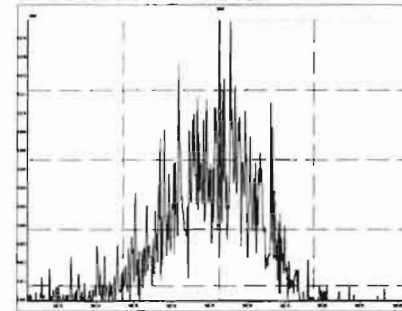
M 480.9696 R 11522



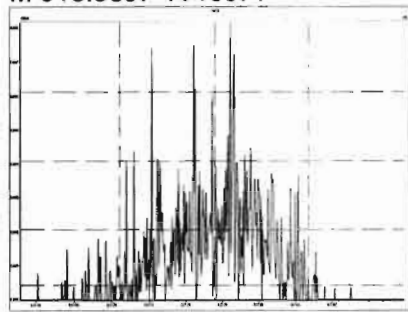
M 492.9696 R 12756



M 504.9696 R 13450



M 516.9697 R 16571



## **INITIAL CALIBRATION**

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

Last Altered: Tuesday, October 20, 2020 14:36:10 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:22:41 Pacific Daylight Time

GRB 10/20/20  
HW 10/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 20 Oct 2020 10:47:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 14:36:10

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

Response Factor: 0.950098

RRF SD: 0.10465, Relative SD: 11.0146

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	201020R1_1	0.250	0.81	NO	26.29	1.001	2.37e3	1.11e6	0.224	-10.3	0.852	MM
2	201020R1_2	0.500	0.75	NO	26.31	1.001	5.59e3	1.28e6	0.460	-8.0	0.874	bb
3	201020R1_3	2.00	0.75	NO	26.29	1.001	2.28e4	1.32e6	1.82	-8.9	0.866	bb
4	201020R1_4	40.0	0.77	NO	26.32	1.000	3.56e5	8.62e5	43.4	8.6	1.03	bb
5	201020R1_5	300	0.78	NO	26.29	1.001	4.63e6	1.39e6	350	16.7	1.11	bb
6	201020R1_6	10.0	0.76	NO	26.29	1.001	1.18e5	1.22e6	10.2	1.9	0.969	MM

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.885499

RRF SD: 0.0848416, Relative SD: 9.58122

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	201020R1_1	1.25	0.59	NO	30.96	1.001	8.54e3	8.68e5	1.11	-11.0	0.788	bb
2	201020R1_2	2.50	0.63	NO	30.96	1.000	1.82e4	9.11e5	2.25	-9.8	0.798	bb
3	201020R1_3	10.0	0.61	NO	30.96	1.001	8.73e4	1.03e6	9.59	-4.1	0.849	bb
4	201020R1_4	200	0.62	NO	30.98	1.001	1.24e6	6.47e5	217	8.5	0.961	MM
5	201020R1_5	1500	0.62	NO	30.98	1.001	1.71e7	1.16e6	1670	11.0	0.983	bb
6	201020R1_6	50.0	0.62	NO	30.96	1.001	4.46e5	9.55e5	52.7	5.5	0.934	bb

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**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.01755

RRF SD: 0.10207, Relative SD: 10.0309

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	201020R1_1	1.25	1.20	NO	34.28	1.000	6.99e3	6.21e5	1.11	-11.5	0.901	bd
2	201020R1_2	2.50	1.26	NO	34.27	1.000	1.48e4	6.65e5	2.19	-12.3	0.892	bd
3	201020R1_3	10.0	1.25	NO	34.28	1.001	7.13e4	7.07e5	9.91	-0.9	1.01	bd
4	201020R1_4	200	1.24	NO	34.29	1.000	1.04e6	4.71e5	218	8.9	1.11	bd
5	201020R1_5	1500	1.23	NO	34.28	1.000	1.49e7	8.81e5	1660	10.7	1.13	bd
6	201020R1_6	50.0	1.27	NO	34.28	1.000	3.59e5	6.72e5	52.5	5.0	1.07	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 0.914527

RRF SD: 0.0845585, Relative SD: 9.24614

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	201020R1_1	1.25	1.17	NO	34.41	1.001	7.95e3	7.36e5	1.18	-5.5	0.864	db
2	201020R1_2	2.50	1.28	NO	34.40	1.001	1.57e4	7.73e5	2.22	-11.1	0.813	db
3	201020R1_3	10.0	1.29	NO	34.40	1.001	7.37e4	8.70e5	9.27	-7.3	0.847	db
4	201020R1_4	200	1.25	NO	34.41	1.001	1.17e6	5.87e5	218	8.9	0.996	db
5	201020R1_5	1500	1.24	NO	34.40	1.000	1.55e7	1.02e6	1670	11.1	1.02	db
6	201020R1_6	50.0	1.26	NO	34.41	1.001	3.73e5	7.84e5	52.0	4.0	0.951	db

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 0.934452

RRF SD: 0.104124, Relative SD: 11.1428

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	201020R1_1	1.25	1.17	NO	34.67	1.000	6.89e3	6.69e5	1.10	-11.8	0.824	bb
2	201020R1_2	2.50	1.24	NO	34.67	1.000	1.48e4	7.19e5	2.21	-11.8	0.825	bb

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**Compound name: 1,2,3,7,8,9-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201020R1_3	10.0	1.25	NO	34.66	1.000	7.04e4	8.01e5	9.42	-5.8	0.880	bb
4	201020R1_4	200	1.24	NO	34.69	1.000	1.07e6	5.18e5	222	10.9	1.04	bb
5	201020R1_5	1500	1.24	NO	34.67	1.000	1.48e7	9.42e5	1680	12.3	1.05	bb
6	201020R1_6	50.0	1.24	NO	34.67	1.000	3.59e5	7.24e5	53.1	6.2	0.992	bb

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.869732  
 RRF SD: 0.101922, Relative SD: 11.7188  
 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	201020R1_1	1.25	1.01	NO	38.16	1.001	5.19e3	5.60e5	1.07	-14.6	0.742	bb
2	201020R1_2	2.50	1.00	NO	38.14	1.000	1.26e4	6.39e5	2.27	-9.4	0.788	bb
3	201020R1_3	10.0	1.06	NO	38.15	1.000	5.46e4	6.69e5	9.38	-6.2	0.816	bd
4	201020R1_4	200	1.03	NO	38.16	1.000	8.51e5	4.44e5	221	10.3	0.960	bb
5	201020R1_5	1500	1.03	NO	38.16	1.001	1.20e7	8.00e5	1720	14.6	0.997	bb
6	201020R1_6	50.0	1.01	NO	38.16	1.000	2.81e5	6.15e5	52.6	5.2	0.915	bb

**Compound name: OCDD**

Response Factor: 0.871682  
 RRF SD: 0.0918681, Relative SD: 10.5392  
 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	201020R1_1	2.50	0.91	NO	41.11	1.000	8.88e3	8.86e5	2.30	-8.0	0.802	MM
2	201020R1_2	5.00	0.83	NO	41.10	1.000	2.03e4	1.06e6	4.38	-12.3	0.764	bd
3	201020R1_3	20.0	0.91	NO	41.12	1.000	9.08e4	1.12e6	18.6	-7.0	0.811	bd
4	201020R1_4	400	0.89	NO	41.10	1.000	1.42e6	7.38e5	442	10.4	0.963	bb
5	201020R1_5	3000	0.87	NO	41.13	1.000	2.01e7	1.36e6	3380	12.8	0.983	bb
6	201020R1_6	100	0.88	NO	41.12	1.000	4.65e5	1.02e6	104	4.1	0.907	MM

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**Compound name: 2,3,7,8-TCDF**

Response Factor: 0.824288  
 RRF SD: 0.0905517, Relative SD: 10.9854  
 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	201020R1_1	0.250	0.75	NO	25.61	1.001	2.81e3	1.53e6	0.223	-11.0	0.734	MM
2	201020R1_2	0.500	0.74	NO	25.61	1.001	6.37e3	1.70e6	0.454	-9.1	0.749	MM
3	201020R1_3	2.00	0.77	NO	25.61	1.001	2.79e4	1.82e6	1.86	-7.2	0.765	bb
4	201020R1_4	40.0	0.75	NO	25.64	1.000	4.26e5	1.19e6	43.4	8.5	0.895	bb
5	201020R1_5	300	0.76	NO	25.61	1.001	5.36e6	1.86e6	349	16.4	0.959	bb
6	201020R1_6	10.0	0.75	NO	25.61	1.001	1.42e5	1.69e6	10.2	2.4	0.844	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 0.962587  
 RRF SD: 0.0802385, Relative SD: 8.33572  
 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	201020R1_1	1.25	1.60	NO	29.71	1.001	1.34e4	1.22e6	1.14	-8.9	0.877	bb
2	201020R1_2	2.50	1.55	NO	29.71	1.001	2.85e4	1.30e6	2.27	-9.4	0.872	bb
3	201020R1_3	10.0	1.60	NO	29.71	1.001	1.32e5	1.42e6	9.68	-3.2	0.932	bb
4	201020R1_4	200	1.56	NO	29.73	1.001	1.94e6	9.55e5	211	5.6	1.02	bd
5	201020R1_5	1500	1.55	NO	29.71	1.000	2.60e7	1.63e6	1660	10.5	1.06	bb
6	201020R1_6	50.0	1.57	NO	29.71	1.001	7.00e5	1.38e6	52.7	5.4	1.01	bb

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 1.06841  
 RRF SD: 0.0935936, Relative SD: 8.76011  
 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	201020R1_1	1.25	1.58	NO	30.76	1.000	1.39e4	1.16e6	1.13	-9.8	0.964	bb
2	201020R1_2	2.50	1.59	NO	30.77	1.001	3.11e4	1.29e6	2.26	-9.6	0.966	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	201020R1_3	10.0	1.62	NO	30.75	1.000	1.51e5	1.45e6	9.71	-2.9	1.04	bb
4	201020R1_4	200	1.56	NO	30.77	1.000	2.12e6	9.27e5	214	7.1	1.14	bd
5	201020R1_5	1500	1.55	NO	30.77	1.001	2.83e7	1.59e6	1660	10.9	1.18	bb
6	201020R1_6	50.0	1.55	NO	30.76	1.000	7.58e5	1.36e6	52.1	4.2	1.11	bb

**Compound name: 1,2,3,4,7,8-HxCDF**

Response Factor: 0.953478  
 RRF SD: 0.113056, Relative SD: 11.8572  
 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	201020R1_1	1.25	1.21	NO	33.37	1.000	8.75e3	8.65e5	1.06	-15.1	0.809	bd
2	201020R1_2	2.50	1.22	NO	33.37	1.000	1.91e4	9.23e5	2.17	-13.2	0.828	bd
3	201020R1_3	10.0	1.23	NO	33.37	1.001	9.24e4	9.76e5	9.93	-0.7	0.947	bd
4	201020R1_4	200	1.22	NO	33.38	1.000	1.33e6	6.36e5	219	9.6	1.05	bd
5	201020R1_5	1500	1.22	NO	33.37	1.000	1.86e7	1.15e6	1690	12.9	1.08	bd
6	201020R1_6	50.0	1.23	NO	33.37	1.000	4.69e5	9.24e5	53.2	6.4	1.01	bd

**Compound name: 1,2,3,6,7,8-HxCDF**

Response Factor: 1.00798  
 RRF SD: 0.112388, Relative SD: 11.1498  
 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	201020R1_1	1.25	1.18	NO	33.50	1.000	1.00e4	9.15e5	1.08	-13.2	0.875	db
2	201020R1_2	2.50	1.29	NO	33.50	1.000	2.13e4	9.59e5	2.20	-11.9	0.888	db
3	201020R1_3	10.0	1.23	NO	33.50	1.001	1.00e5	1.03e6	9.63	-3.7	0.971	db
4	201020R1_4	200	1.22	NO	33.51	1.000	1.55e6	6.96e5	221	10.5	1.11	db
5	201020R1_5	1500	1.22	NO	33.50	1.000	2.04e7	1.21e6	1680	11.7	1.13	db
6	201020R1_6	50.0	1.23	NO	33.50	1.000	5.13e5	9.53e5	53.3	6.7	1.08	db

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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 0.990683

RRF SD: 0.116635, Relative SD: 11.7732

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	201020R1_1	1.25	1.19	NO	34.18	1.001	8.93e3	8.28e5	1.09	-12.9	0.863	bb
2	201020R1_2	2.50	1.24	NO	34.17	1.000	1.87e4	8.79e5	2.15	-13.9	0.853	bb
3	201020R1_3	10.0	1.27	NO	34.17	1.001	9.17e4	9.58e5	9.66	-3.4	0.957	bb
4	201020R1_4	200	1.23	NO	34.18	1.000	1.37e6	6.32e5	219	9.6	1.09	bb
5	201020R1_5	1500	1.22	NO	34.17	1.000	1.87e7	1.11e6	1700	13.3	1.12	bb
6	201020R1_6	50.0	1.22	NO	34.18	1.001	4.65e5	8.75e5	53.6	7.3	1.06	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 0.950625

RRF SD: 0.11684, Relative SD: 12.2908

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	201020R1_1	1.25	1.23	NO	35.18	1.001	7.16e3	6.87e5	1.10	-12.3	0.834	bb
2	201020R1_2	2.50	1.20	NO	35.18	1.001	1.62e4	7.96e5	2.14	-14.5	0.813	bb
3	201020R1_3	10.0	1.19	NO	35.17	1.001	7.41e4	8.23e5	9.48	-5.2	0.901	bb
4	201020R1_4	200	1.23	NO	35.19	1.001	1.15e6	5.57e5	217	8.6	1.03	bb
5	201020R1_5	1500	1.23	NO	35.18	1.001	1.60e7	9.75e5	1720	14.8	1.09	bb
6	201020R1_6	50.0	1.25	NO	35.18	1.000	3.95e5	7.65e5	54.3	8.6	1.03	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.998573

RRF SD: 0.149251, Relative SD: 14.9464

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	201020R1_1	1.25	0.94	NO	36.74	1.000	6.80e3	6.49e5	1.05	-16.2	0.837	bb
2	201020R1_2	2.50	0.96	NO	36.73	1.000	1.54e4	7.21e5	2.13	-14.7	0.852	bb



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**Compound name: 1,2,3,4,6,7,8-HpCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201020R1_3	10.0	0.99	NO	36.74	1.000	7.28e4	8.00e5	9.11	-8.9	0.909	bb
4	201020R1_4	200	1.01	NO	36.76	1.000	1.11e6	4.85e5	230	14.9	1.15	bb
5	201020R1_5	1500	1.01	NO	36.76	1.001	1.52e7	8.73e5	1750	16.3	1.16	bb
6	201020R1_6	50.0	1.01	NO	36.76	1.000	3.78e5	6.97e5	54.2	8.5	1.08	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.12384  
 RRF SD: 0.136934, Relative SD: 12.1845  
 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	201020R1_1	1.25	1.02	NO	38.77	1.000	5.83e3	4.78e5	1.08	-13.2	0.975	MM
2	201020R1_2	2.50	1.00	NO	38.77	1.000	1.44e4	5.79e5	2.21	-11.4	0.995	MM
3	201020R1_3	10.0	1.02	NO	38.77	1.000	5.99e4	5.77e5	9.23	-7.7	1.04	bb
4	201020R1_4	200	1.01	NO	38.77	1.000	9.50e5	3.83e5	220	10.2	1.24	bb
5	201020R1_5	1500	1.00	NO	38.78	1.000	1.36e7	7.02e5	1720	14.8	1.29	bb
6	201020R1_6	50.0	1.01	NO	38.78	1.000	3.25e5	5.39e5	53.7	7.4	1.21	bb

**Compound name: OCDF**

Response Factor: 0.868237  
 RRF SD: 0.10594, Relative SD: 12.2017  
 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	201020R1_1	2.50	0.84	NO	41.38	1.000	9.82e3	1.05e6	2.16	-13.7	0.749	MM
2	201020R1_2	5.00	0.90	NO	41.39	1.000	2.31e4	1.24e6	4.32	-13.7	0.750	MM
3	201020R1_3	20.0	0.88	NO	41.40	1.000	1.08e5	1.29e6	19.3	-3.6	0.837	bb
4	201020R1_4	400	0.89	NO	41.39	1.000	1.66e6	8.74e5	439	9.7	0.952	bb
5	201020R1_5	3000	0.89	NO	41.41	1.000	2.39e7	1.60e6	3450	14.9	0.998	bb
6	201020R1_6	100	0.87	NO	41.41	1.000	5.43e5	1.18e6	106	6.4	0.924	bb

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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.10889

RRF SD: 0.0354221, Relative SD: 3.19438

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	201020R1_1	100	0.79	NO	26.27	1.030	1.11e6	1.05e6	95.9	-4.1	1.06	bb
2	201020R1_2	100	0.79	NO	26.27	1.030	1.28e6	1.12e6	103	2.6	1.14	bd
3	201020R1_3	100	0.79	NO	26.27	1.030	1.32e6	1.18e6	100	0.5	1.11	bb
4	201020R1_4	100	0.78	NO	26.31	1.030	8.62e5	7.98e5	97.4	-2.6	1.08	bb
5	201020R1_5	100	0.79	NO	26.27	1.030	1.39e6	1.20e6	104	4.4	1.16	bb
6	201020R1_6	100	0.78	NO	26.27	1.030	1.22e6	1.11e6	99.1	-0.9	1.10	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.858504

RRF SD: 0.0583655, Relative SD: 6.79851

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	201020R1_1	100	0.62	NO	30.94	1.212	8.68e5	1.05e6	96.7	-3.3	0.830	bb
2	201020R1_2	100	0.63	NO	30.96	1.213	9.11e5	1.12e6	94.4	-5.6	0.811	bb
3	201020R1_3	100	0.63	NO	30.94	1.212	1.03e6	1.18e6	101	1.4	0.871	bb
4	201020R1_4	100	0.62	NO	30.96	1.212	6.47e5	7.98e5	94.5	-5.5	0.811	MM
5	201020R1_5	100	0.63	NO	30.96	1.213	1.16e6	1.20e6	112	12.5	0.966	bb
6	201020R1_6	100	0.63	NO	30.94	1.212	9.55e5	1.11e6	100	0.5	0.863	bb

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

Response Factor: 0.699736

RRF SD: 0.0536682, Relative SD: 7.66977

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	201020R1_1	100	1.28	NO	34.27	1.014	6.21e5	9.36e5	94.9	-5.1	0.664	bd
2	201020R1_2	100	1.27	NO	34.27	1.014	6.65e5	9.80e5	97.0	-3.0	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	201020R1_3	100	1.29	NO	34.26	1.014	7.07e5	1.05e6	96.3	-3.7	0.674	bd
4	201020R1_4	100	1.27	NO	34.28	1.014	4.71e5	6.87e5	98.1	-1.9	0.686	bd
5	201020R1_5	100	1.28	NO	34.27	1.014	8.81e5	1.09e6	115	15.4	0.808	bd
6	201020R1_6	100	1.28	NO	34.27	1.014	6.72e5	9.76e5	98.4	-1.6	0.688	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 0.832718

RRF SD: 0.0561256, Relative SD: 6.74005

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	201020R1_1	100	1.27	NO	34.38	1.017	7.36e5	9.36e5	94.5	-5.5	0.787	db
2	201020R1_2	100	1.27	NO	34.38	1.017	7.73e5	9.80e5	94.7	-5.3	0.789	db
3	201020R1_3	100	1.29	NO	34.38	1.017	8.70e5	1.05e6	99.5	-0.5	0.829	db
4	201020R1_4	100	1.28	NO	34.39	1.017	5.87e5	6.87e5	103	2.5	0.854	db
5	201020R1_5	100	1.26	NO	34.39	1.018	1.02e6	1.09e6	112	12.2	0.935	db
6	201020R1_6	100	1.27	NO	34.39	1.018	7.84e5	9.76e5	96.5	-3.5	0.803	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.761805

RRF SD: 0.0524899, Relative SD: 6.8902

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	201020R1_1	100	1.24	NO	34.66	1.026	6.69e5	9.36e5	93.9	-6.1	0.715	bb
2	201020R1_2	100	1.21	NO	34.66	1.026	7.19e5	9.80e5	96.3	-3.7	0.733	bb
3	201020R1_3	100	1.23	NO	34.65	1.025	8.01e5	1.05e6	100	0.1	0.763	bb
4	201020R1_4	100	1.27	NO	34.67	1.026	5.18e5	6.87e5	99.1	-0.9	0.755	MM
5	201020R1_5	100	1.24	NO	34.66	1.026	9.42e5	1.09e6	113	13.3	0.863	MM
6	201020R1_6	100	1.25	NO	34.66	1.026	7.24e5	9.76e5	97.4	-2.6	0.742	bb

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

Response Factor: 0.649564  
 RRF SD: 0.0451664, Relative SD: 6.95334  
 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	201020R1_1	100	1.05	NO	38.14	1.128	5.60e5	9.36e5	92.1	-7.9	0.598	bb
2	201020R1_2	100	1.09	NO	38.14	1.128	6.39e5	9.80e5	100	0.4	0.652	MM
3	201020R1_3	100	1.04	NO	38.14	1.128	6.69e5	1.05e6	98.2	-1.8	0.638	bb
4	201020R1_4	100	1.07	NO	38.15	1.128	4.44e5	6.87e5	99.4	-0.6	0.646	MM
5	201020R1_5	100	1.07	NO	38.14	1.128	8.00e5	1.09e6	113	12.9	0.733	MM
6	201020R1_6	100	1.04	NO	38.15	1.129	6.15e5	9.76e5	97.0	-3.0	0.630	MM

**Compound name: 13C-OCDD**

Response Factor: 0.539367  
 RRF SD: 0.0489023, Relative SD: 9.06662  
 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	201020R1_1	200	0.92	NO	41.10	1.216	8.86e5	9.36e5	175	-12.3	0.473	bb
2	201020R1_2	200	0.90	NO	41.08	1.216	1.06e6	9.80e5	201	0.4	0.542	bb
3	201020R1_3	200	0.89	NO	41.11	1.216	1.12e6	1.05e6	198	-1.0	0.534	bb
4	201020R1_4	200	0.88	NO	41.08	1.215	7.38e5	6.87e5	199	-0.4	0.537	bb
5	201020R1_5	200	0.89	NO	41.10	1.216	1.36e6	1.09e6	232	15.9	0.625	bb
6	201020R1_6	200	0.89	NO	41.10	1.216	1.02e6	9.76e5	195	-2.6	0.525	bb

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 0.981384  
 RRF SD: 0.0297957, Relative SD: 3.03609  
 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	201020R1_1	100	0.78	NO	25.59	1.003	1.53e6	1.65e6	94.6	-5.4	0.928	bb
2	201020R1_2	100	0.77	NO	25.59	1.003	1.70e6	1.75e6	99.3	-0.7	0.974	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	201020R1_3	100	0.77	NO	25.59	1.003	1.82e6	1.83e6	101	1.3	0.994	bb
4	201020R1_4	100	0.77	NO	25.63	1.003	1.19e6	1.22e6	99.5	-0.5	0.976	bb
5	201020R1_5	100	0.78	NO	25.59	1.003	1.86e6	1.84e6	103	3.0	1.01	bb
6	201020R1_6	100	0.78	NO	25.59	1.003	1.69e6	1.68e6	102	2.3	1.00	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.791688  
 RRF SD: 0.0545703, Relative SD: 6.89291  
 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	201020R1_1	100	1.58	NO	29.69	1.163	1.22e6	1.65e6	93.5	-6.5	0.740	bb
2	201020R1_2	100	1.58	NO	29.69	1.163	1.30e6	1.75e6	94.3	-5.7	0.747	bb
3	201020R1_3	100	1.61	NO	29.69	1.163	1.42e6	1.83e6	97.5	-2.5	0.772	bb
4	201020R1_4	100	1.61	NO	29.71	1.163	9.55e5	1.22e6	99.0	-1.0	0.784	bd
5	201020R1_5	100	1.58	NO	29.71	1.164	1.63e6	1.84e6	112	11.9	0.886	bb
6	201020R1_6	100	1.59	NO	29.69	1.163	1.38e6	1.68e6	104	3.7	0.821	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.777714  
 RRF SD: 0.0578231, Relative SD: 7.435  
 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	201020R1_1	100	1.59	NO	30.76	1.205	1.15e6	1.65e6	90.1	-9.9	0.701	bb
2	201020R1_2	100	1.61	NO	30.75	1.205	1.29e6	1.75e6	94.8	-5.2	0.737	bb
3	201020R1_3	100	1.62	NO	30.75	1.205	1.45e6	1.83e6	102	1.9	0.793	bb
4	201020R1_4	100	1.60	NO	30.77	1.205	9.27e5	1.22e6	97.8	-2.2	0.761	dd
5	201020R1_5	100	1.60	NO	30.75	1.205	1.59e6	1.84e6	111	11.2	0.865	bb
6	201020R1_6	100	1.60	NO	30.76	1.205	1.36e6	1.68e6	104	4.1	0.810	bb

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

Response Factor: 0.953706  
 RRF SD: 0.0497892, Relative SD: 5.22061  
 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	201020R1_1	100	0.51	NO	33.36	0.987	8.65e5	9.36e5	96.9	-3.1	0.924	bd
2	201020R1_2	100	0.51	NO	33.36	0.987	9.23e5	9.80e5	98.8	-1.2	0.942	bd
3	201020R1_3	100	0.51	NO	33.35	0.987	9.76e5	1.05e6	97.5	-2.5	0.930	bd
4	201020R1_4	100	0.51	NO	33.37	0.987	6.36e5	6.87e5	97.1	-2.9	0.926	bd
5	201020R1_5	100	0.51	NO	33.36	0.987	1.15e6	1.09e6	110	10.5	1.05	bd
6	201020R1_6	100	0.51	NO	33.36	0.987	9.24e5	9.76e5	99.3	-0.7	0.947	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 1.00595  
 RRF SD: 0.0507361, Relative SD: 5.04362  
 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	201020R1_1	100	0.50	NO	33.49	0.991	9.15e5	9.36e5	97.2	-2.8	0.978	db
2	201020R1_2	100	0.52	NO	33.49	0.991	9.59e5	9.80e5	97.3	-2.7	0.979	db
3	201020R1_3	100	0.52	NO	33.48	0.991	1.03e6	1.05e6	97.7	-2.3	0.982	db
4	201020R1_4	100	0.51	NO	33.50	0.991	6.96e5	6.87e5	101	0.8	1.01	db
5	201020R1_5	100	0.51	NO	33.49	0.991	1.21e6	1.09e6	110	9.9	1.11	db
6	201020R1_6	100	0.51	NO	33.49	0.991	9.53e5	9.76e5	97.1	-2.9	0.977	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 0.921049  
 RRF SD: 0.0481045, Relative SD: 5.2228  
 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	201020R1_1	100	0.52	NO	34.16	1.011	8.28e5	9.36e5	96.1	-3.9	0.885	bd
2	201020R1_2	100	0.51	NO	34.16	1.011	8.79e5	9.80e5	97.4	-2.6	0.897	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	201020R1_3	100	0.51	NO	34.15	1.010	9.58e5	1.05e6	99.1	-0.9	0.913	bb
4	201020R1_4	100	0.51	NO	34.17	1.011	6.32e5	6.87e5	99.8	-0.2	0.919	bb
5	201020R1_5	100	0.51	NO	34.16	1.011	1.11e6	1.09e6	110	10.3	1.02	bb
6	201020R1_6	100	0.50	NO	34.16	1.011	8.75e5	9.76e5	97.3	-2.7	0.897	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.803358  
 RRF SD: 0.0529087, Relative SD: 6.58594  
 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	201020R1_1	100	0.51	NO	35.16	1.040	6.87e5	9.36e5	91.4	-8.6	0.734	MM
2	201020R1_2	100	0.50	NO	35.16	1.040	7.96e5	9.80e5	101	1.1	0.813	bb
3	201020R1_3	100	0.52	NO	35.15	1.040	8.23e5	1.05e6	97.6	-2.4	0.784	bd
4	201020R1_4	100	0.50	NO	35.17	1.040	5.57e5	6.87e5	101	1.0	0.811	bd
5	201020R1_5	100	0.51	NO	35.16	1.040	9.75e5	1.09e6	111	11.3	0.894	bb
6	201020R1_6	100	0.51	NO	35.17	1.041	7.65e5	9.76e5	97.6	-2.4	0.784	bb

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

Response Factor: 0.735455  
 RRF SD: 0.0398884, Relative SD: 5.42364  
 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	201020R1_1	100	0.42	NO	36.73	1.087	6.49e5	9.36e5	94.3	-5.7	0.694	bb
2	201020R1_2	100	0.44	NO	36.73	1.087	7.21e5	9.80e5	100	0.0	0.736	bd
3	201020R1_3	100	0.41	NO	36.73	1.087	8.00e5	1.05e6	104	3.6	0.762	bb
4	201020R1_4	100	0.43	NO	36.75	1.087	4.85e5	6.87e5	96.0	-4.0	0.706	bb
5	201020R1_5	100	0.44	NO	36.74	1.087	8.73e5	1.09e6	109	8.8	0.800	bb
6	201020R1_6	100	0.43	NO	36.75	1.087	6.97e5	9.76e5	97.2	-2.8	0.715	bb

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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.567644  
 RRF SD: 0.0450507, Relative SD: 7.93644  
 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	201020R1_1	100	0.44	NO	38.76	1.147	4.78e5	9.36e5	90.0	-10.0	0.511	bd
2	201020R1_2	100	0.43	NO	38.76	1.147	5.79e5	9.80e5	104	4.1	0.591	bb
3	201020R1_3	100	0.44	NO	38.76	1.147	5.77e5	1.05e6	96.9	-3.1	0.550	bd
4	201020R1_4	100	0.43	NO	38.76	1.147	3.83e5	6.87e5	98.3	-1.7	0.558	bd
5	201020R1_5	100	0.43	NO	38.77	1.147	7.02e5	1.09e6	113	13.4	0.644	bb
6	201020R1_6	100	0.45	NO	38.77	1.147	5.39e5	9.76e5	97.3	-2.7	0.552	bd

**Compound name: 13C-OCDF**

Response Factor: 0.629245  
 RRF SD: 0.0574861, Relative SD: 9.13572  
 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	201020R1_1	200	0.91	NO	41.38	1.224	1.05e6	9.36e5	178	-11.0	0.560	MM
2	201020R1_2	200	0.87	NO	41.38	1.224	1.24e6	9.80e5	200	0.2	0.630	MM
3	201020R1_3	200	0.90	NO	41.40	1.225	1.29e6	1.05e6	195	-2.5	0.614	bd
4	201020R1_4	200	0.86	NO	41.38	1.224	8.74e5	6.87e5	202	1.1	0.636	bb
5	201020R1_5	200	0.88	NO	41.40	1.225	1.60e6	1.09e6	233	16.5	0.733	bb
6	201020R1_6	200	0.90	NO	41.39	1.225	1.18e6	9.76e5	191	-4.3	0.602	bd

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.08781  
 RRF SD: 0.174332, Relative SD: 16.0259  
 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	201020R1_1	0.250			26.29	1.030	2.24e3	1.05e6	0.197	-21.1	0.858	bb
2	201020R1_2	0.500			26.29	1.030	5.14e3	1.12e6	0.420	-15.9	0.915	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	201020R1_3	2.00			26.29	1.030	2.59e4	1.18e6	2.02	0.8	1.10	bb
4	201020R1_4	40.0			26.32	1.031	3.82e5	7.98e5	44.0	10.0	1.20	bb
5	201020R1_5	200			26.29	1.030	3.17e6	1.20e6	243	21.4	1.32	bb
6	201020R1_6	10.0			26.29	1.030	1.26e5	1.11e6	10.5	4.8	1.14	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	201020R1_1	100	0.78	NO	25.52	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
2	201020R1_2	100	0.79	NO	25.52	1.000	1.12e6	1.12e6	100	0.0	1.00	bb
3	201020R1_3	100	0.78	NO	25.52	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
4	201020R1_4	100	0.77	NO	25.54	1.000	7.98e5	7.98e5	100	0.0	1.00	bb
5	201020R1_5	100	0.78	NO	25.52	1.000	1.20e6	1.20e6	100	0.0	1.00	bb
6	201020R1_6	100	0.79	NO	25.52	1.000	1.11e6	1.11e6	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	201020R1_1	100	0.80	NO	24.04	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	201020R1_2	100	0.79	NO	24.06	1.000	1.75e6	1.75e6	100	0.0	1.00	bb
3	201020R1_3	100	0.79	NO	24.04	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
4	201020R1_4	100	0.79	NO	24.07	1.000	1.22e6	1.22e6	100	0.0	1.00	bb
5	201020R1_5	100	0.79	NO	24.04	1.000	1.84e6	1.84e6	100	0.0	1.00	bb
6	201020R1_6	100	0.79	NO	24.04	1.000	1.68e6	1.68e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

Last Altered: Tuesday, October 20, 2020 14:36:10 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:22:41 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	201020R1_1	100	0.51	NO	33.80	1.000	9.36e5	9.36e5	100	0.0	1.00	bb
2	201020R1_2	100	0.52	NO	33.80	1.000	9.80e5	9.80e5	100	0.0	1.00	bb
3	201020R1_3	100	0.51	NO	33.80	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
4	201020R1_4	100	0.51	NO	33.81	1.000	6.87e5	6.87e5	100	0.0	1.00	bb
5	201020R1_5	100	0.51	NO	33.80	1.000	1.09e6	1.09e6	100	0.0	1.00	bb
6	201020R1_6	100	0.52	NO	33.80	1.000	9.76e5	9.76e5	100	0.0	1.00	bd

Dataset: Untitled

Last Altered: Wednesday, October 21, 2020 06:53:54 Pacific Daylight Time

Printed: Wednesday, October 21, 2020 06:54:05 Pacific Daylight Time

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

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

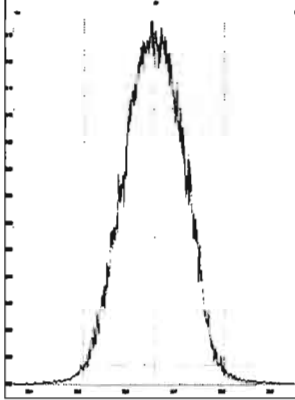
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201020R1_1	ST201020R1_1 1613 CS0 20F1102	20-Oct-20	09:17:10
2	201020R1_2	ST201020R1_2 1613 CS1 20F1103	20-Oct-20	10:04:05
3	201020R1_3	ST201020R1_3 1613 CS2 20F1104	20-Oct-20	10:48:17
4	201020R1_4	ST201020R1_4 1613 CS4 20F1106	20-Oct-20	11:32:31
5	201020R1_5	ST201020R1_5 1613 CS5 20F1107	20-Oct-20	12:16:56
6	201020R1_6	ST201020R1_6 1613 CS3 20F1105	20-Oct-20	13:01:38
7	201020R1_7	SOLVENT BLANK	20-Oct-20	13:45:46
8	201020R1_8	SS201020R1_1 1613 SSS 20F1108	20-Oct-20	14:29:33
9	201020R1_9	TCDF CPSM	20-Oct-20	15:13:50

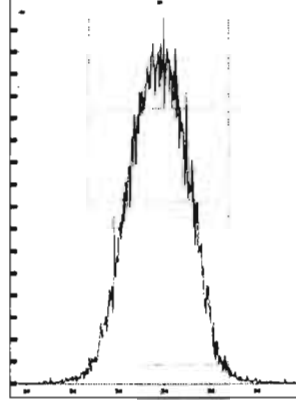
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:00:19 Pacific Daylight Time

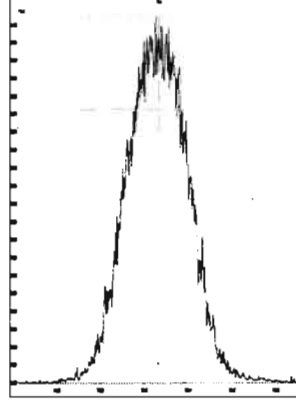
M 292.9824 R 10508



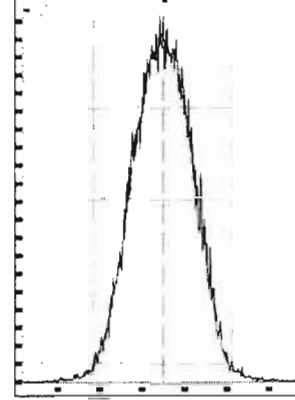
M 304.9824 R 10684



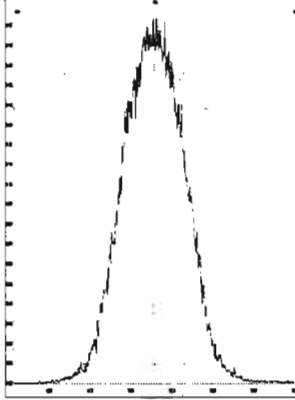
M 318.9792 R 10329



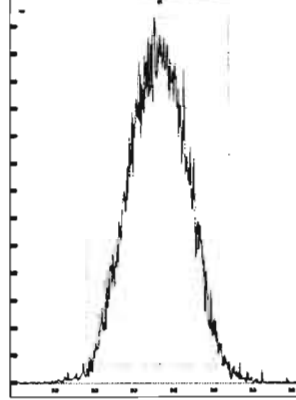
M 330.9792 R 10417



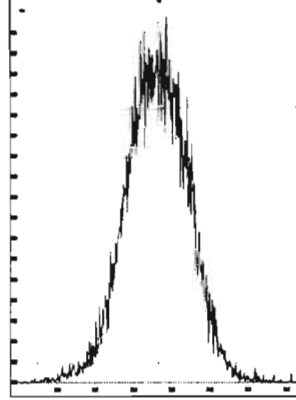
M 342.9792 R 10502



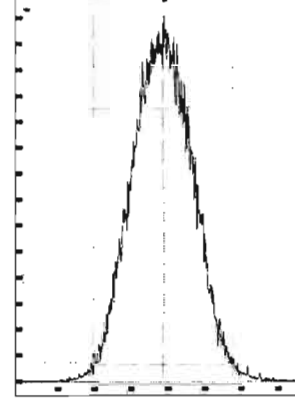
M 354.9792 R 10416



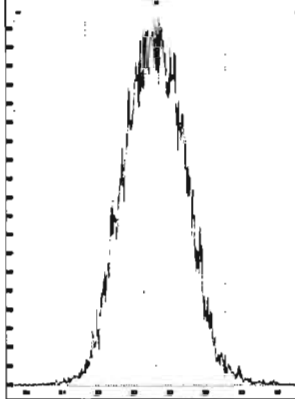
M 366.9792 R 10285



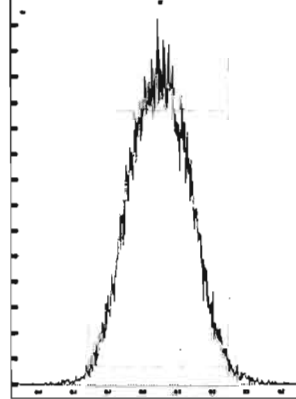
M 380.9760 R 10162



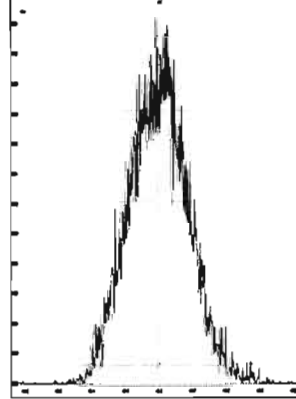
M 392.9760 R 10371



M 404.9760 R 10330



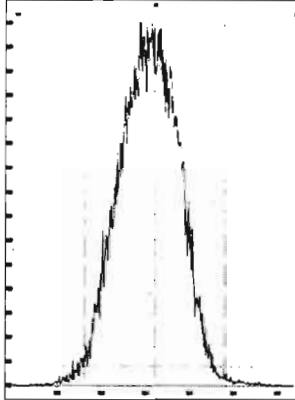
M 416.9760 R 10914



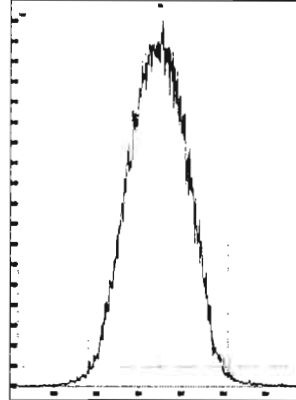
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:01:23 Pacific Daylight Time

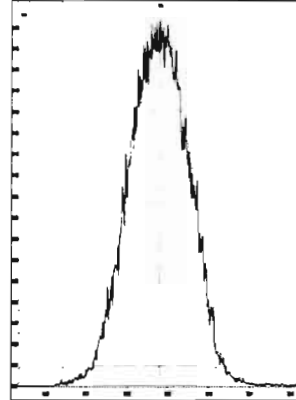
M 318.9792 R 10548



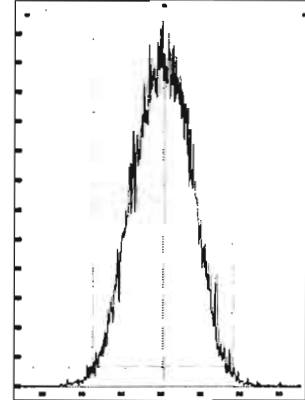
M 330.9792 R 10680



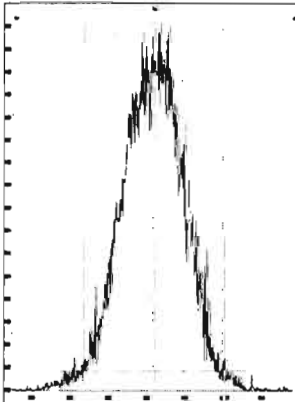
M 342.9792 R 10547



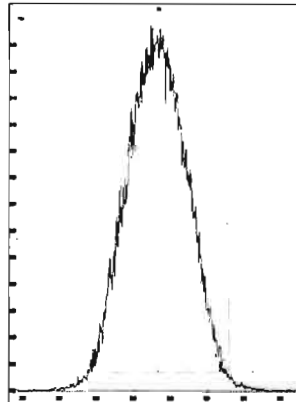
M 354.9792 R 10731



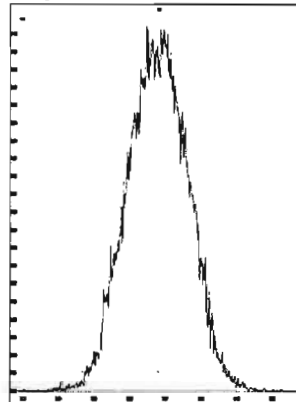
M 366.9792 R 10287



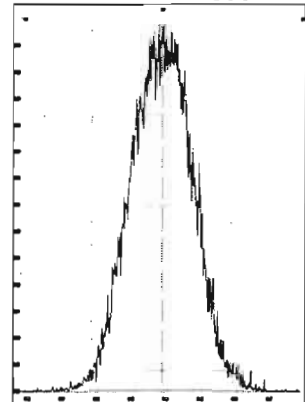
M 380.9760 R 10370



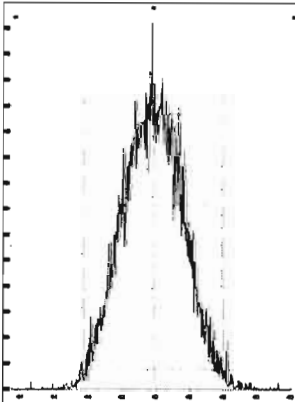
M 392.9760 R 10203



M 404.9760 R 10639



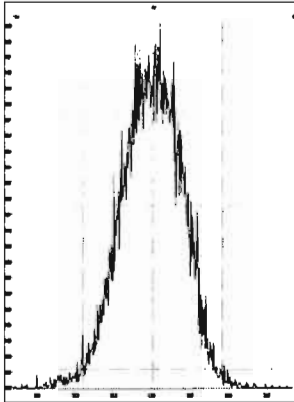
M 416.9760 R 11060



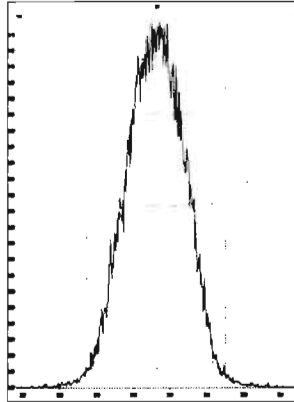
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:02:28 Pacific Daylight Time

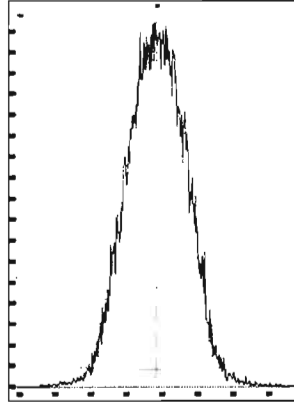
M 366.9792 R 10592



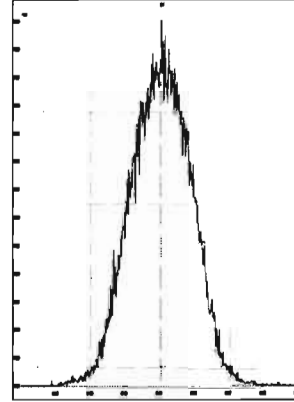
M 380.9760 R 10962



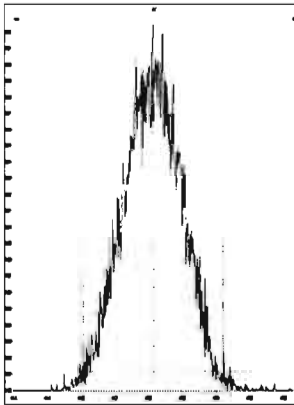
M 392.9760 R 11012



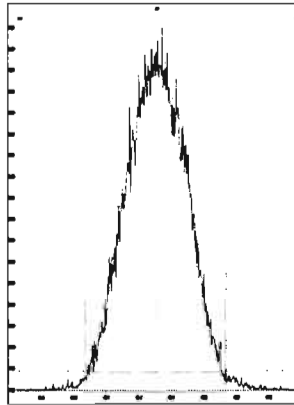
M 404.9760 R 10549



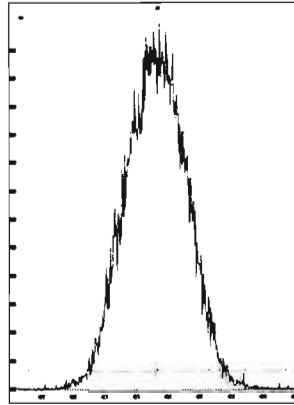
M 416.9760 R 11213



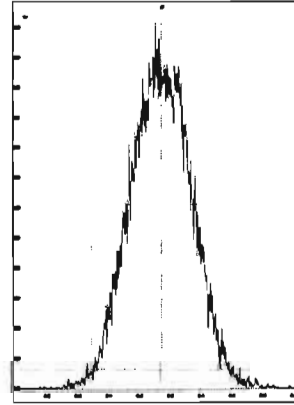
M 430.9728 R 10549



M 442.9728 R 10640



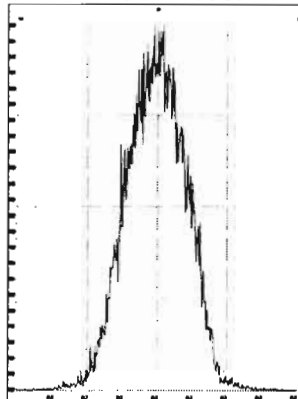
M 454.9728 R 10246



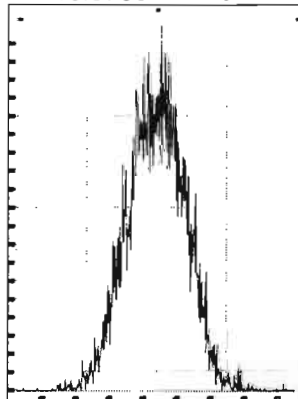
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:03:26 Pacific Daylight Time

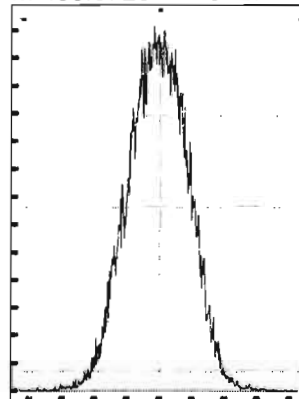
M 404.9760 R 10871



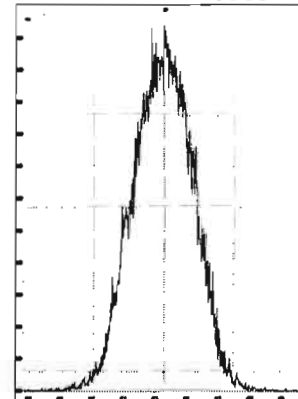
M 416.9760 R 11520



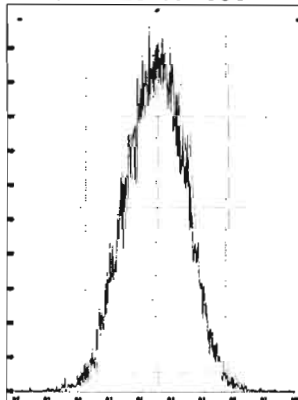
M 430.9728 R 10727



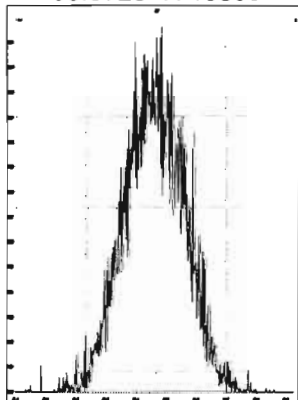
M 442.9728 R 10869



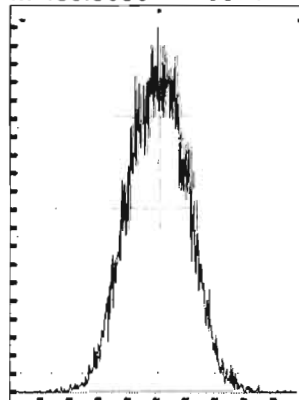
M 454.9728 R 10591



M 466.9728 R 10869



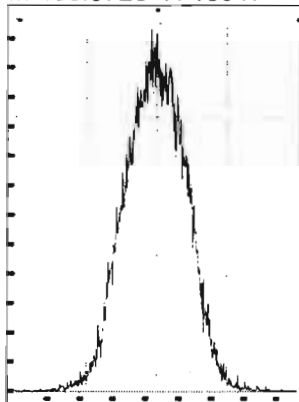
M 480.9696 R 10371



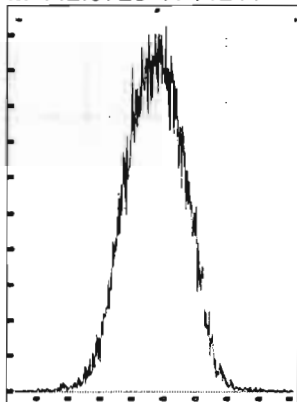
File: Experiment: OCDD\_DB5\_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:04:30 Pacific Daylight Time

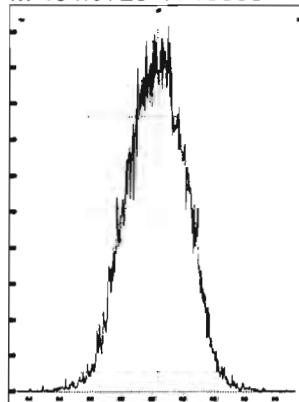
M 430.9728 R 10547



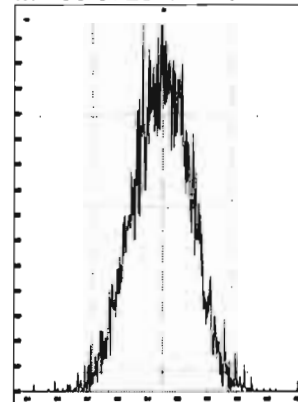
M 442.9728 R 11211



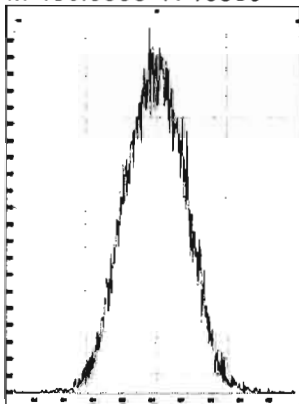
M 454.9728 R 10868



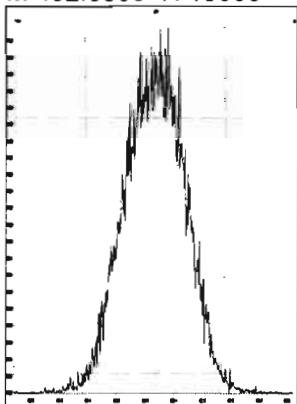
M 466.9728 R 11849



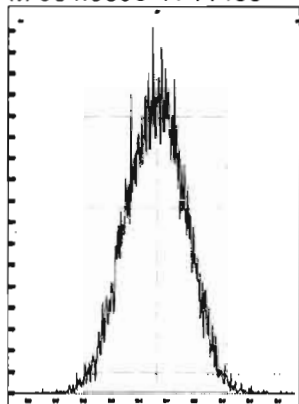
M 480.9696 R 10683



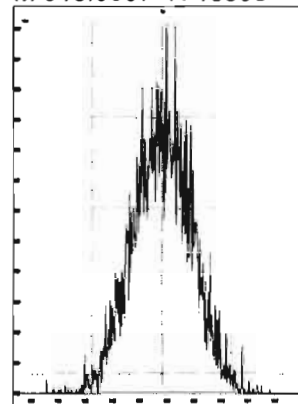
M 492.9696 R 10505



M 504.9696 R 11466



M 516.9697 R 10638





Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 14:59:30 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 14:59:49 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28

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

Name: 201020R1\_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1\_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.55
2	2 1,2,8,9-TCDD (Last)	27.18
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.32
5	5 1,2,4,6,7,9-HxCDD (First)	32.63
6	6 1,2,3,7,8,9-HxCDD (Last)	34.67
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.15
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.16
9	9 1,3,6,8-TCDF (First)	20.32
10	10 1,2,8,9-TCDF (Last)	27.49
11	11 1,3,4,6,8-PeCDF (First)	27.06
12	12 1,2,3,8,9-PeCDF (Last)	31.68
13	13 1,2,3,4,6,8-HxCDF (First)	32.10
14	14 1,2,3,7,8,9-HxCDF (Last)	35.18
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.76
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.78

Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 14:59:30 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 14:59:49 Pacific Daylight Time

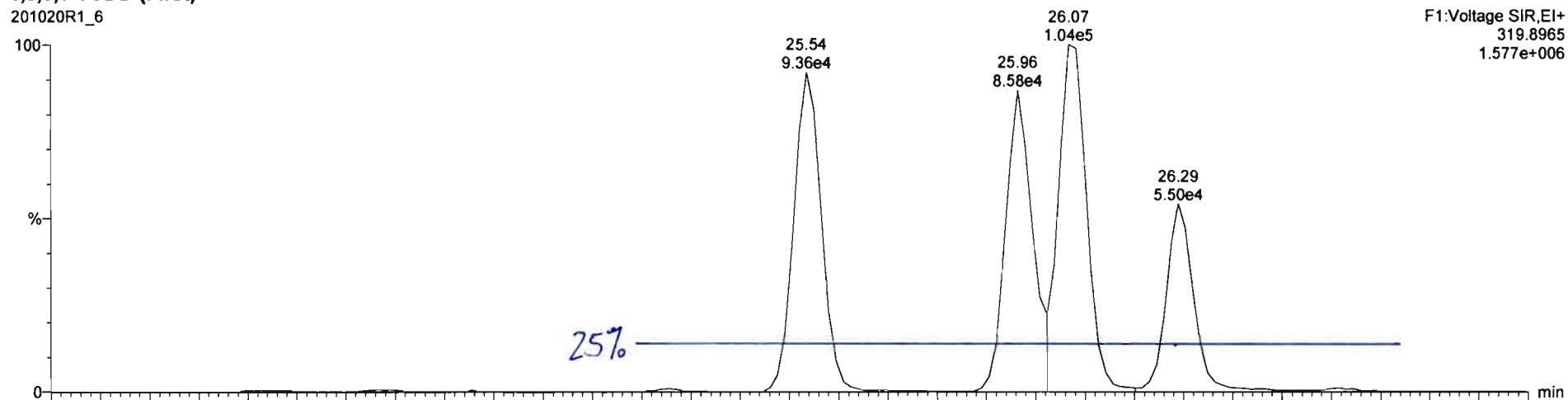
*GRS 10/20/20*  
*HN 10/22/2020*

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28  
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN\_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

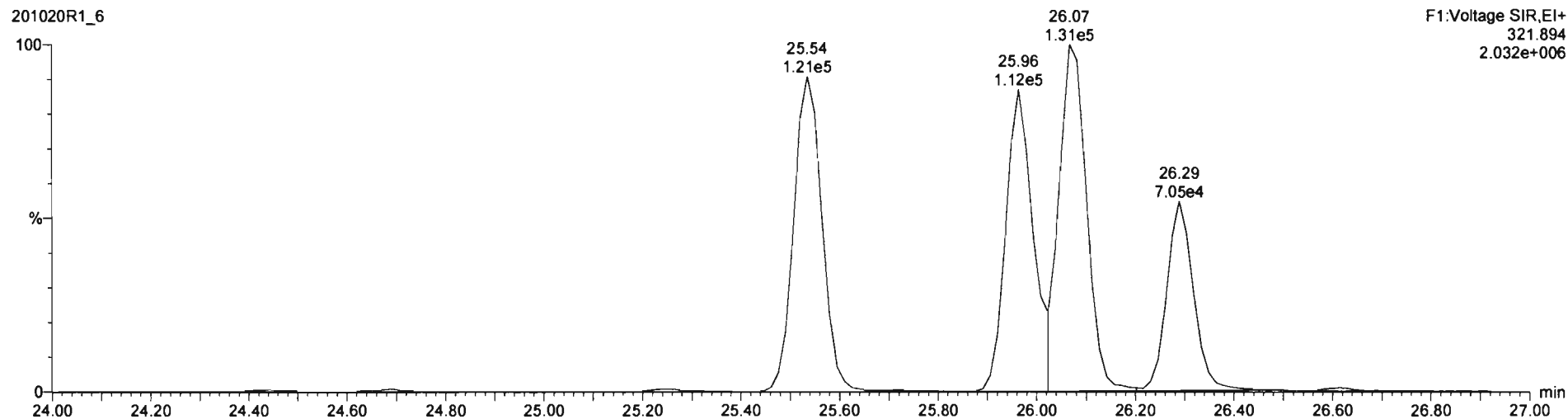
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1,3,6,8-TCDD (First)

201020R1\_6



201020R1\_6

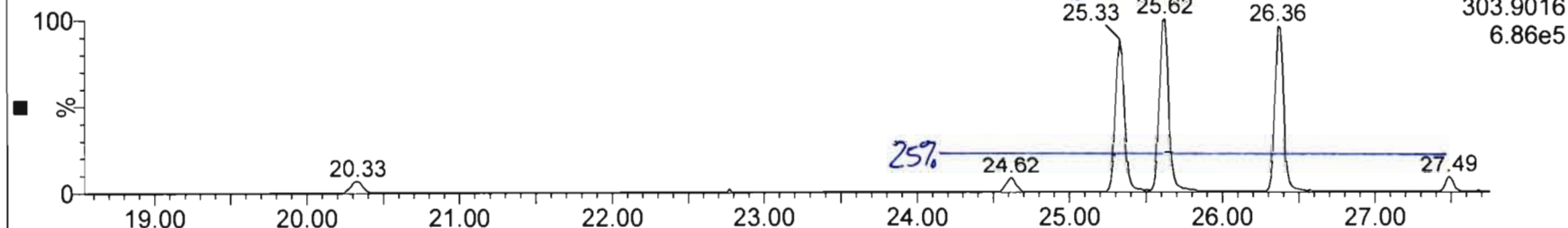


HN 10/22/2020

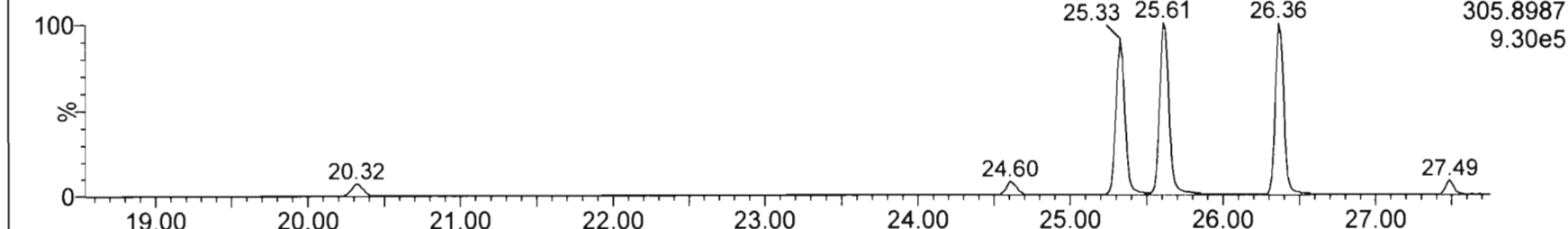
GRB 10/22/2020

### TCDF CPSM QC

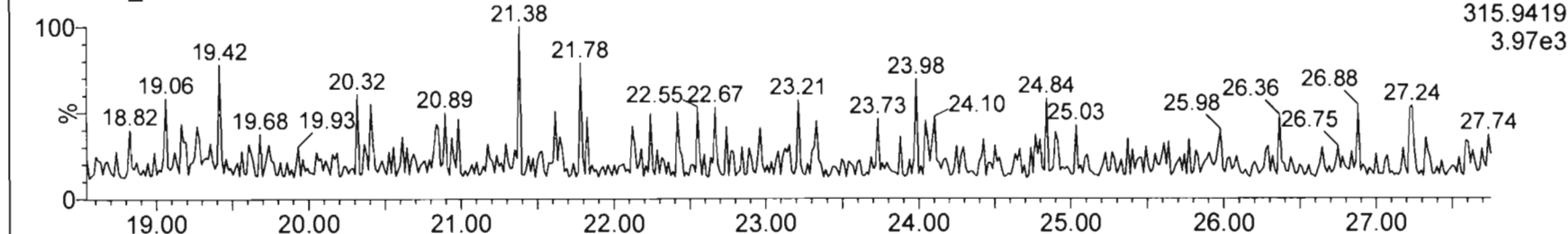
201020R1\_9



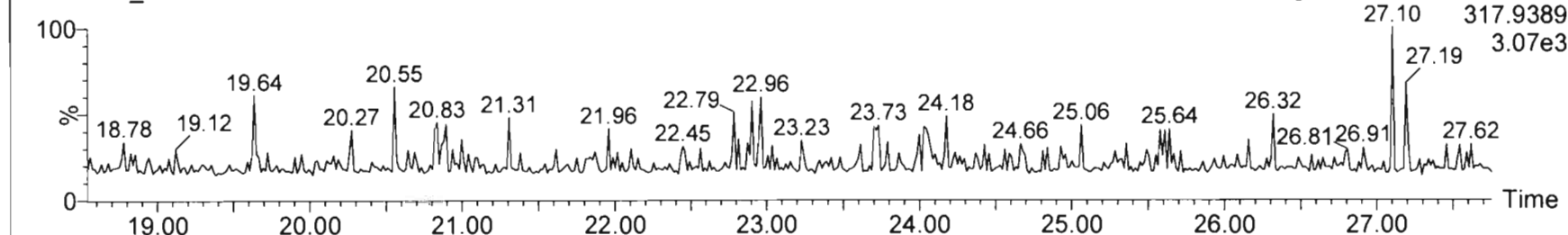
201020R1\_9



201020R1\_9



201020R1\_9



Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

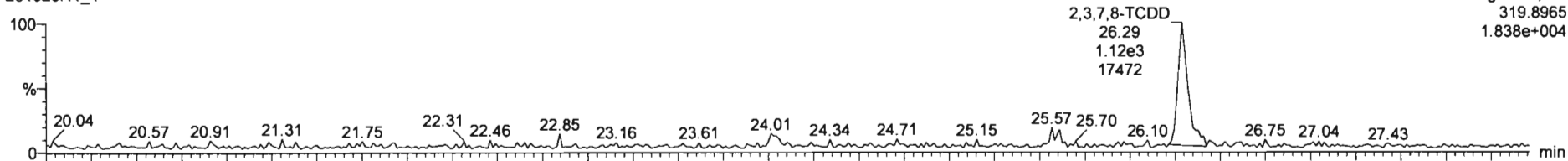
Method: U:\VG12.PROMethDB\1613rrt-10-20-20.mdb 20 Oct 2020 10:47:39

Calibration: 20 Oct 2020 15:17:40

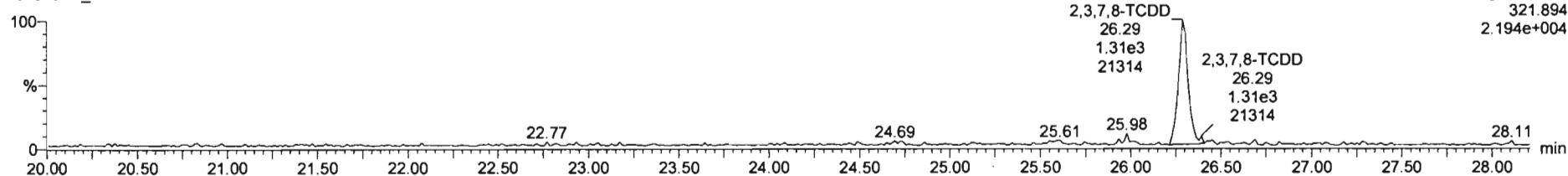
Name: 201020R1\_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1\_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

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

201020R1\_1

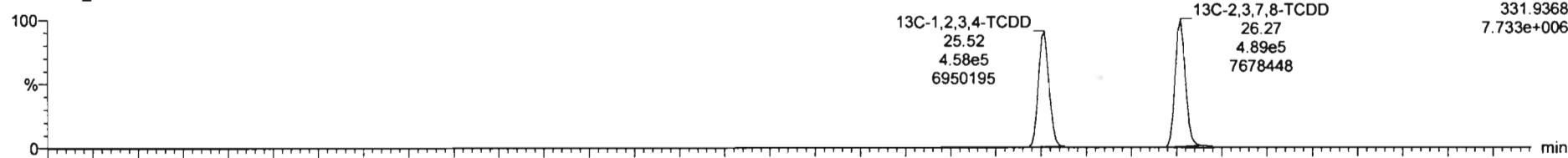


201020R1\_1

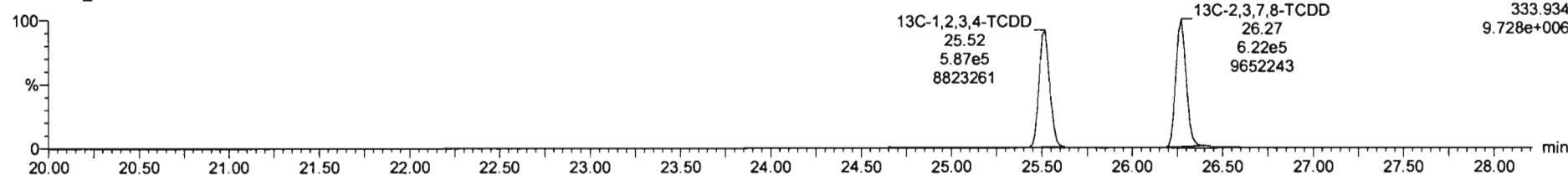


**13C-2,3,7,8-TCDD**

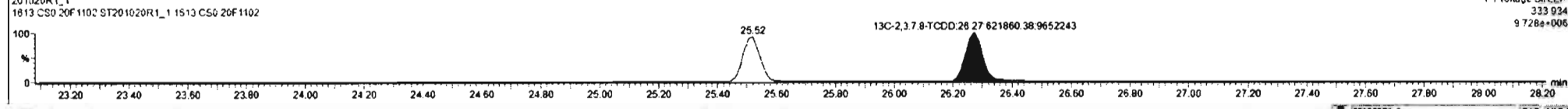
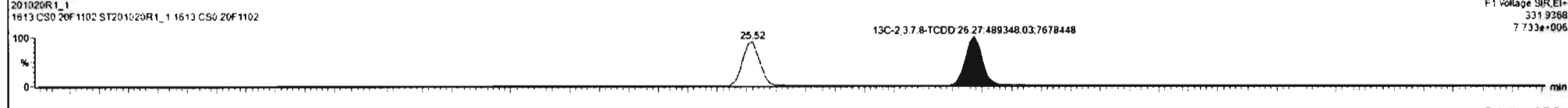
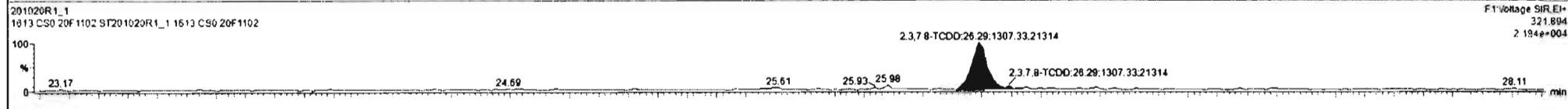
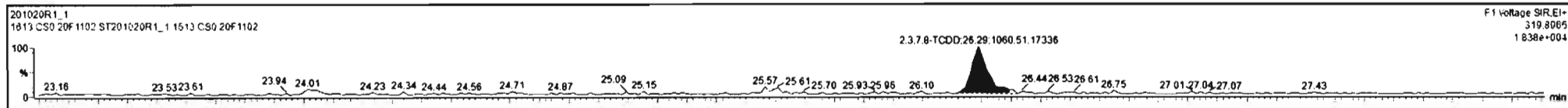
201020R1\_1



201020R1\_1



#	Name	RT	RA	Yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5438e3	8.6783e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3628e5	1.250	-5.5	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8931e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.007	NO	5.1934e3	5.5958e5	1.250	-14.6	11.7	0.870	0.102
7	OCDD	41.11	0.907	NO	8.8776e3	8.8555e5	2.500	-8.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.8093e3	1.5316e6	0.250	-11.0	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.684	NO	1.3382e4	1.2209e6	1.250	-8.9	8.34	0.963	0.0602
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3928e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.161	NO	1.0004e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.8325e3	8.2819e5	1.250	-12.9	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1604e3	6.8684e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.017	NO	5.8287e3	4.7816e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8181e3	1.0480e6	2.500	-13.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	6.6763e5	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.276	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.276	NO	7.3628e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0561



Dataset: Untitled

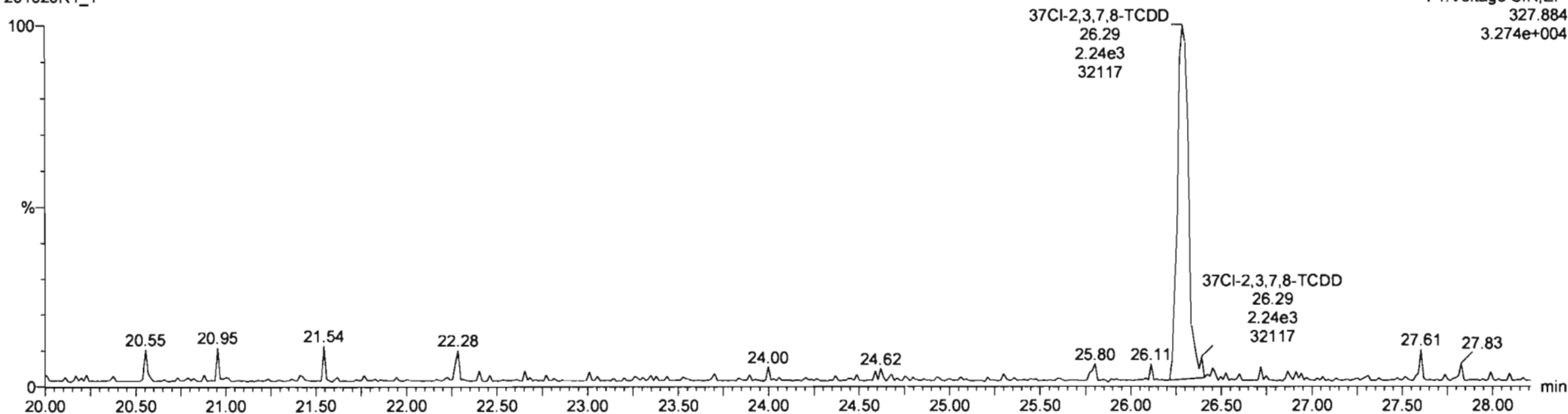
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1\_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

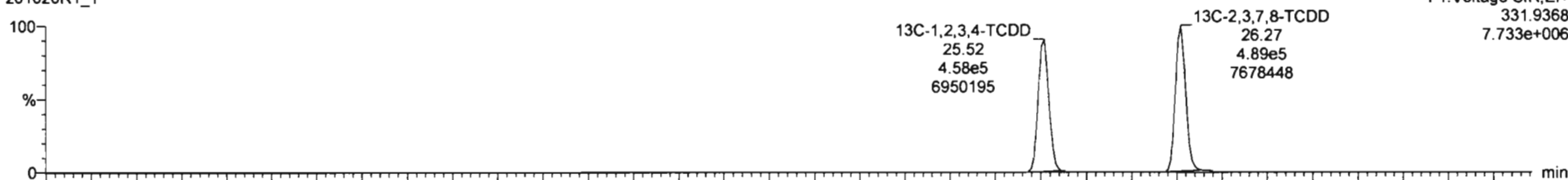
**37Cl-2,3,7,8-TCDD**

201020R1\_1

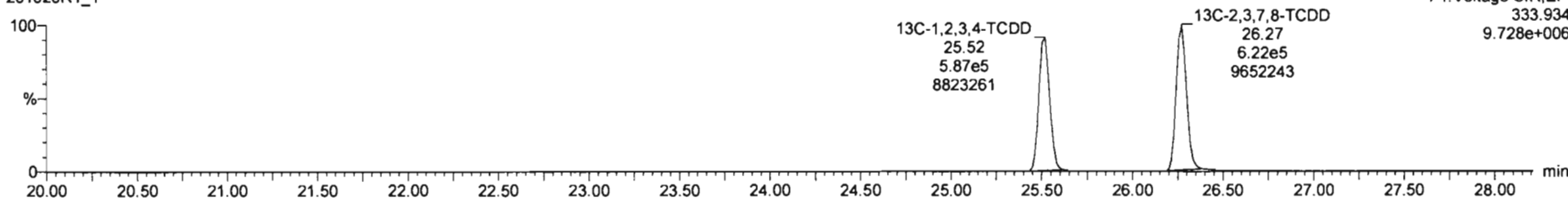


**13C-1,2,3,4-TCDD**

201020R1\_1



201020R1\_1



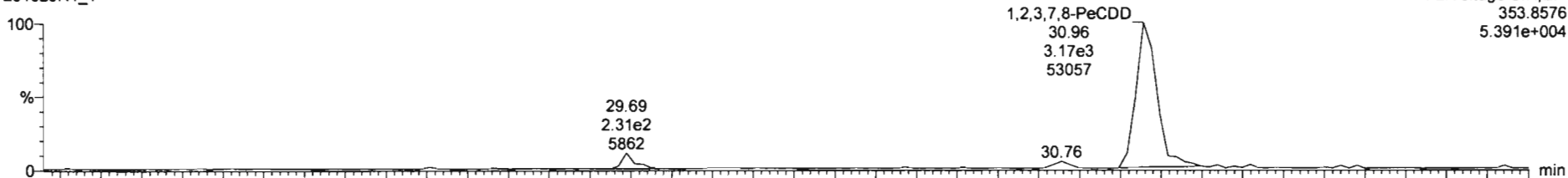
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

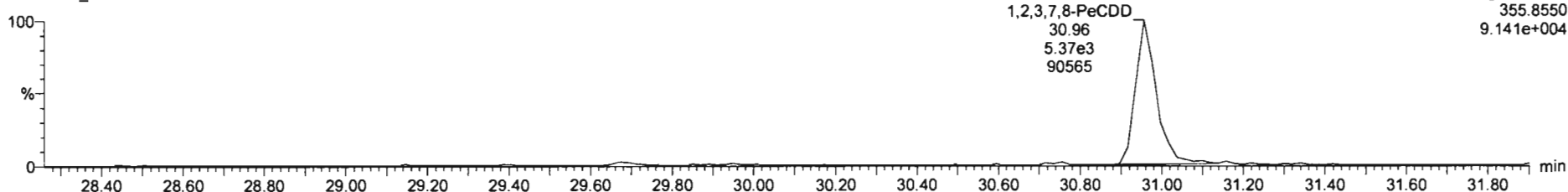
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1,2,3,7,8-PeCDD

201020R1\_1

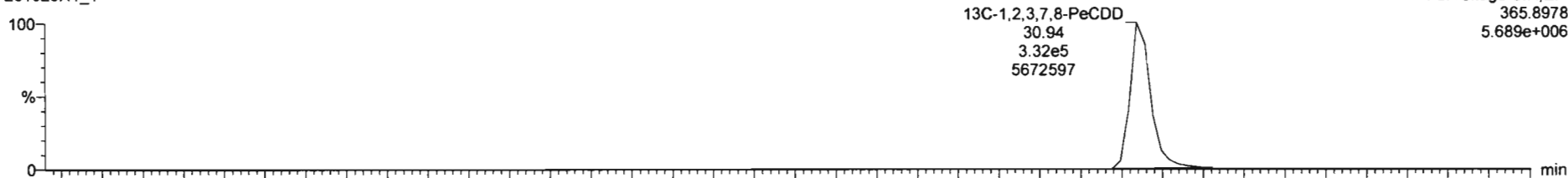


201020R1\_1

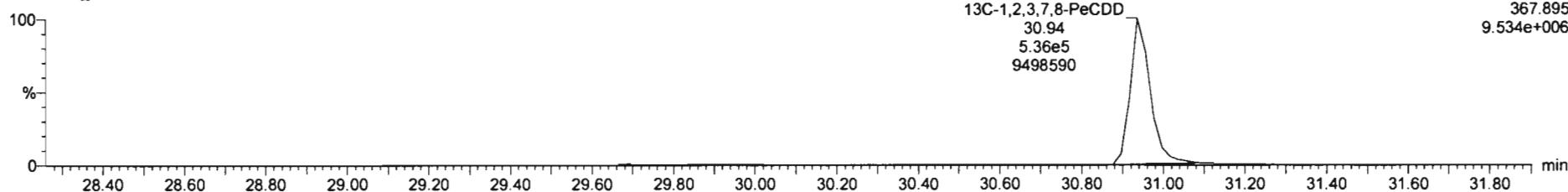


13C-1,2,3,7,8-PeCDD

201020R1\_1



201020R1\_1



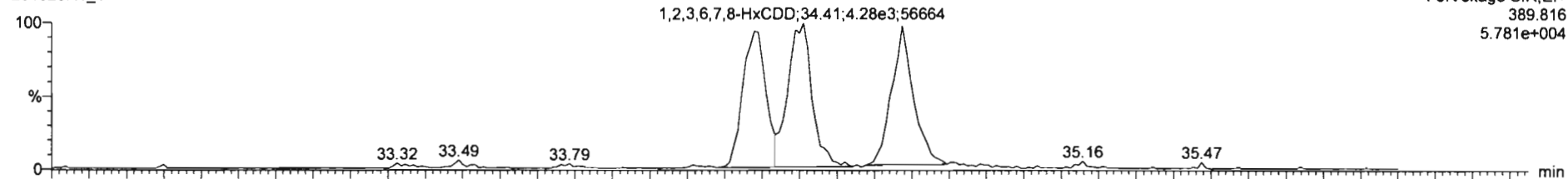
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

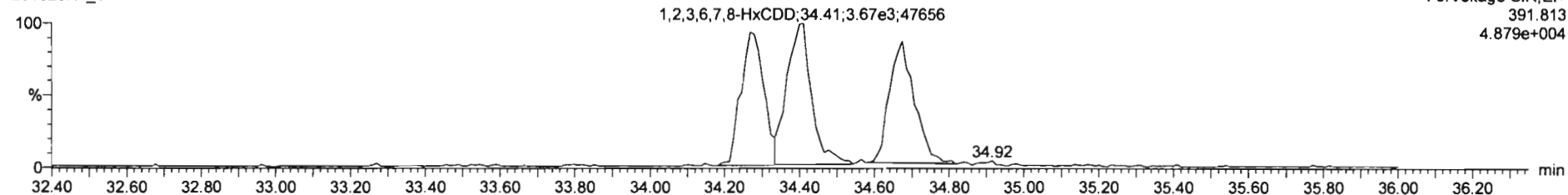
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**1,2,3,4,7,8-HxCDD**

201020R1\_1

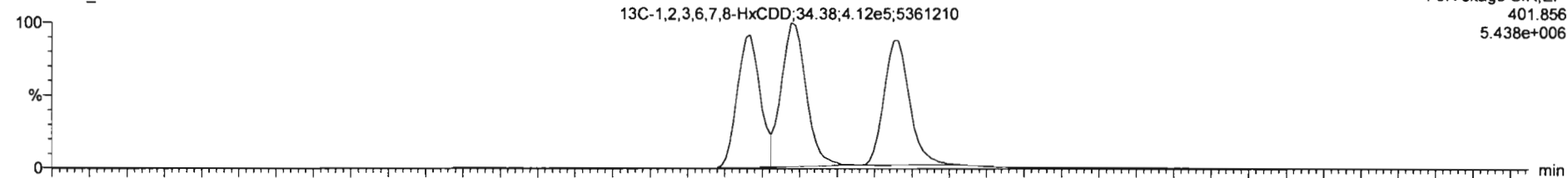


201020R1\_1

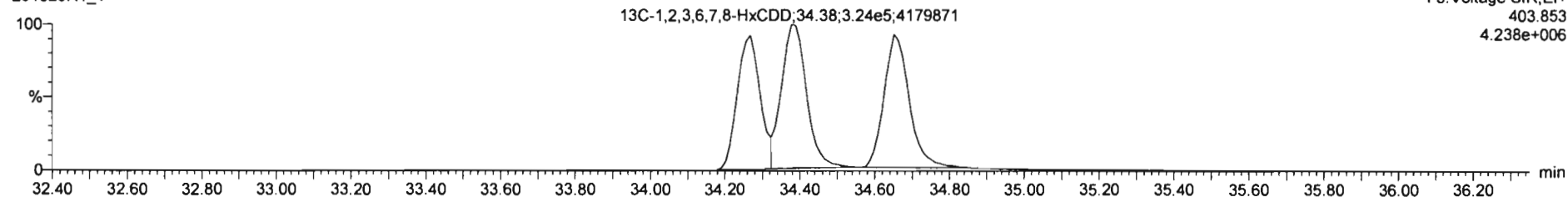


**13C-1,2,3,4,7,8-HxCDD**

201020R1\_1



201020R1\_1





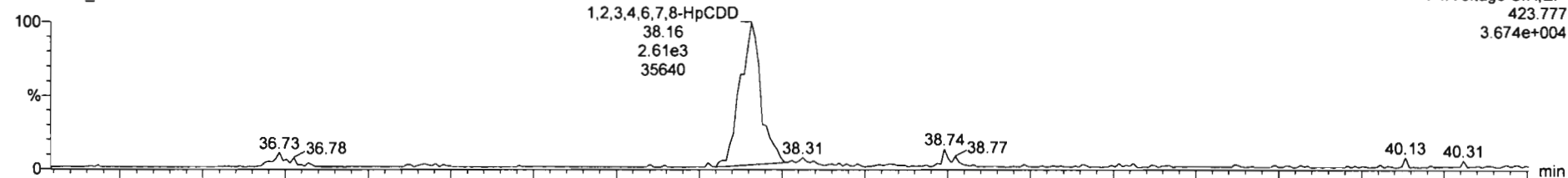
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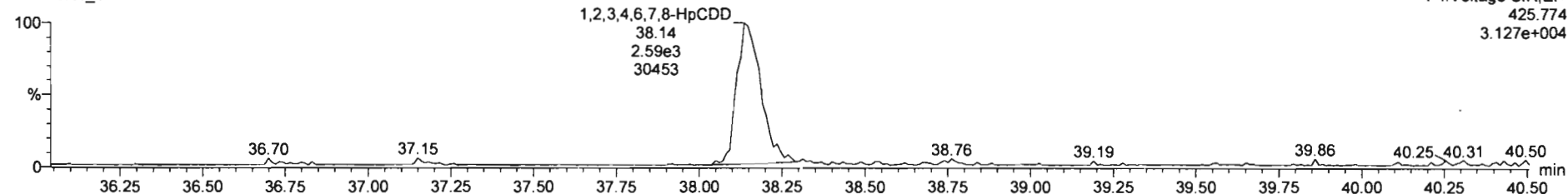
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**1,2,3,4,6,7,8-HpCDD**

201020R1\_1

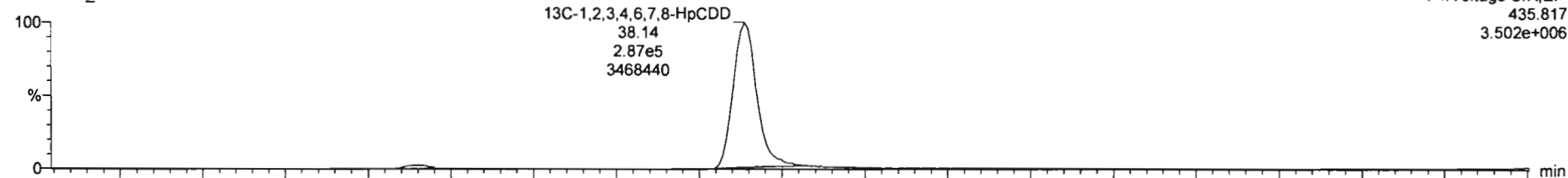


201020R1\_1

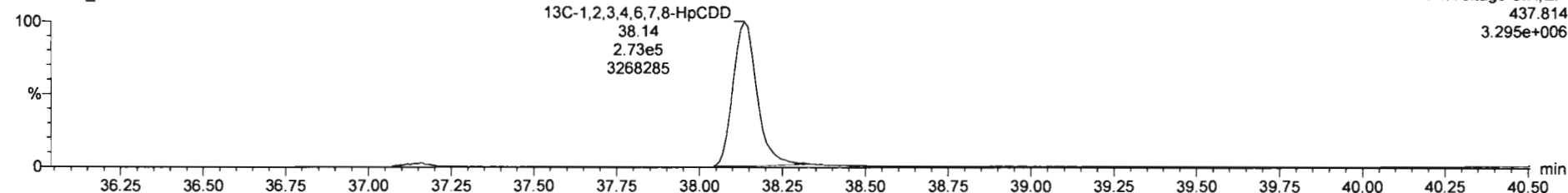


**13C-1,2,3,4,6,7,8-HpCDD**

201020R1\_1



201020R1\_1



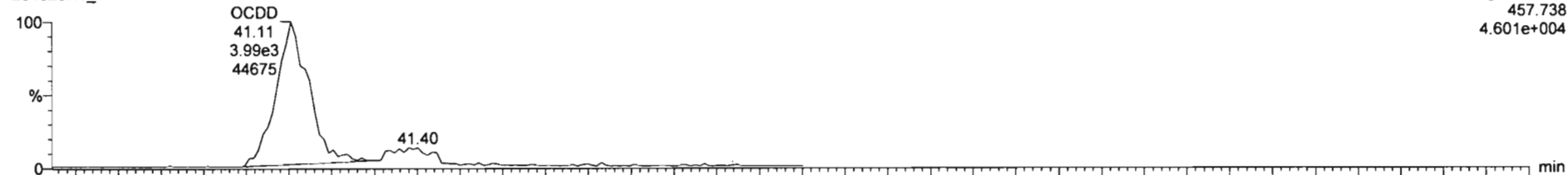
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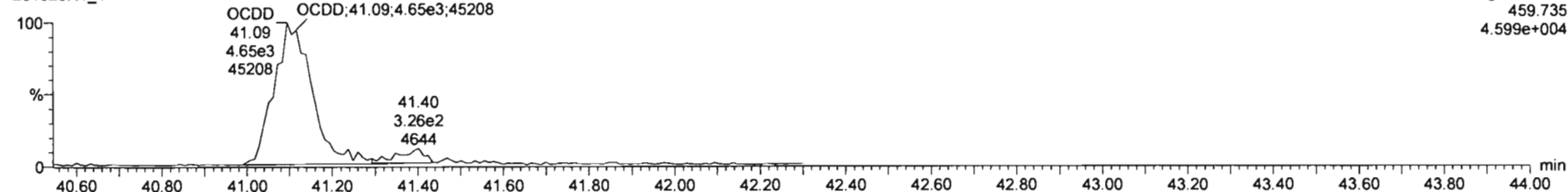
**OCDD**

201020R1\_1



F5:Voltage SIR,EI+  
457.738  
4.601e+004

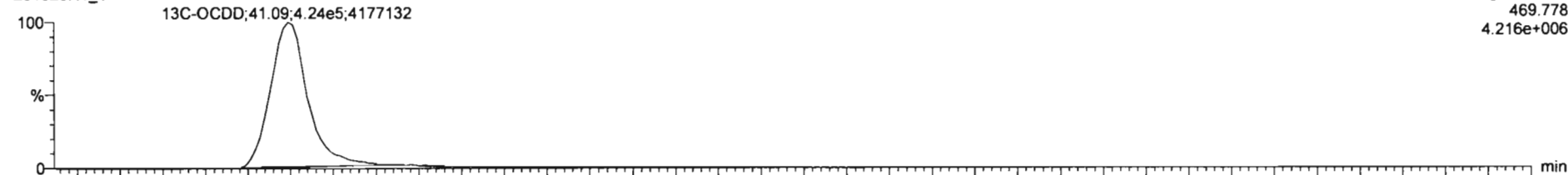
201020R1\_1



F5:Voltage SIR,EI+  
459.735  
4.599e+004

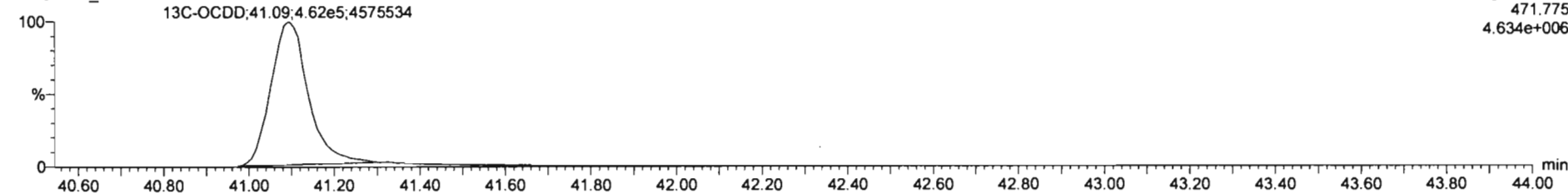
**13C-OCDD**

201020R1\_1



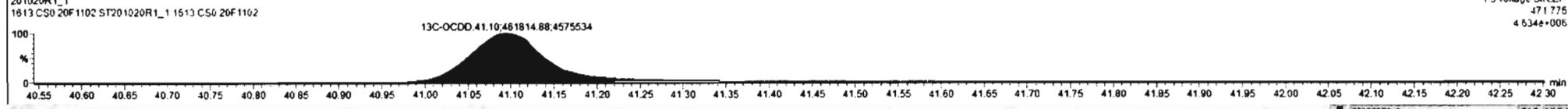
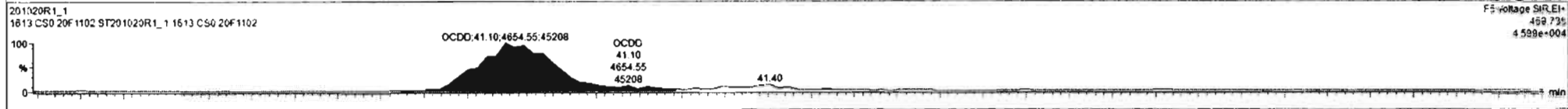
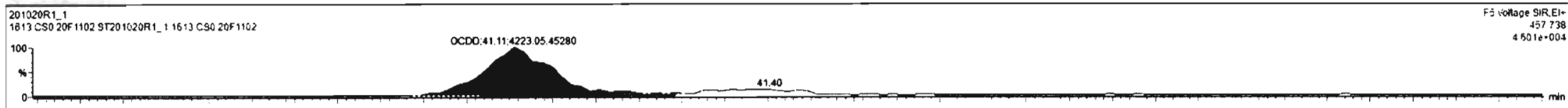
F5:Voltage SIR,EI+  
469.778  
4.216e+006

201020R1\_1



F5:Voltage SIR,EI+  
471.775  
4.634e+006

Sl	Name	RT	RA	Yth	Area	ISArea	Std Conc	%Dev	NURS	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5438e3	8.6783e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3828e5	1.250	-5.5	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8531e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.18	1.007	NO	5.1934e3	5.5958e5	1.250	-14.6	11.7	0.870	0.102
7	OCDD	41.11	0.907	NO	8.8776e3	8.855e5	2.500	-8.9	10.3	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.6093e3	1.6318e6	0.250	-11.0	11.0	0.824	0.0908
9	1,2,3,7,8-PeCDF	29.71	1.604	NO	1.3382e4	1.2209e6	1.250	-8.9	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3928e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.181	NO	1.0004e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.9325e3	8.2819e5	1.250	-12.9	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1694e3	6.8684e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.017	NO	5.8287e3	4.7816e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8161e3	1.0480e6	2.500	-13.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	28.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	8.6763e5	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.276	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.270	NO	7.3828e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0581



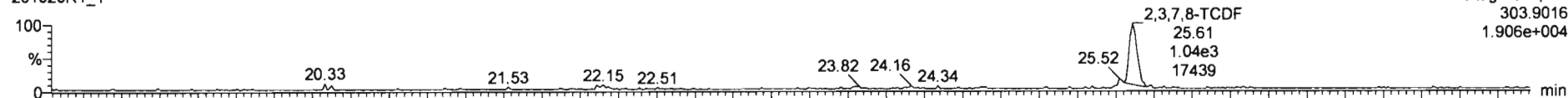
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

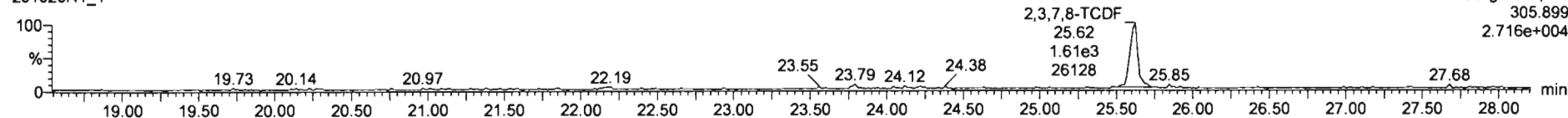
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### 2,3,7,8-TCDF

201020R1\_1

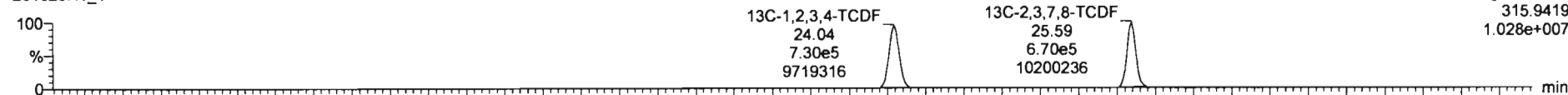


201020R1\_1

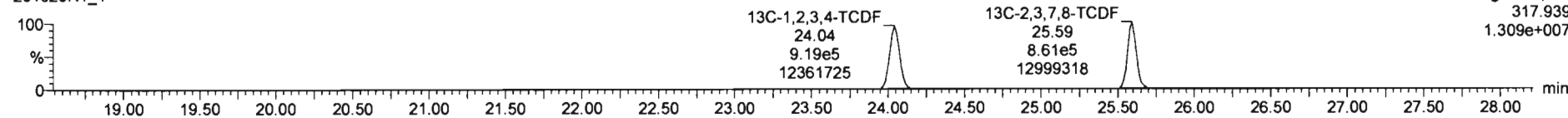


### 13C-2,3,7,8-TCDF

201020R1\_1

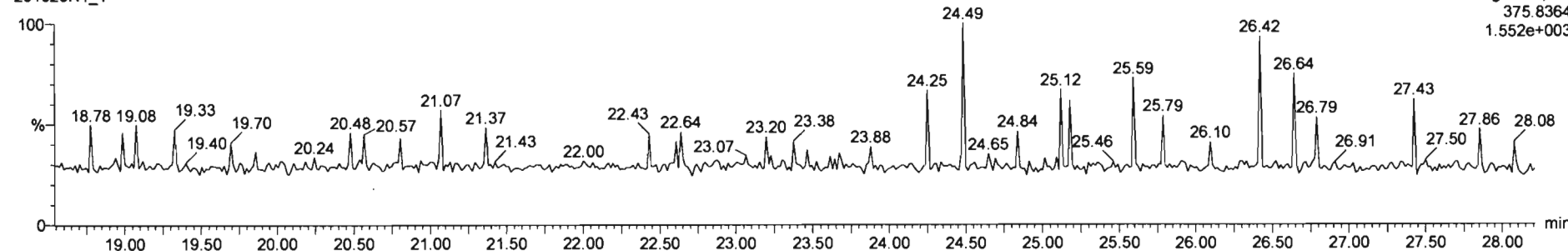


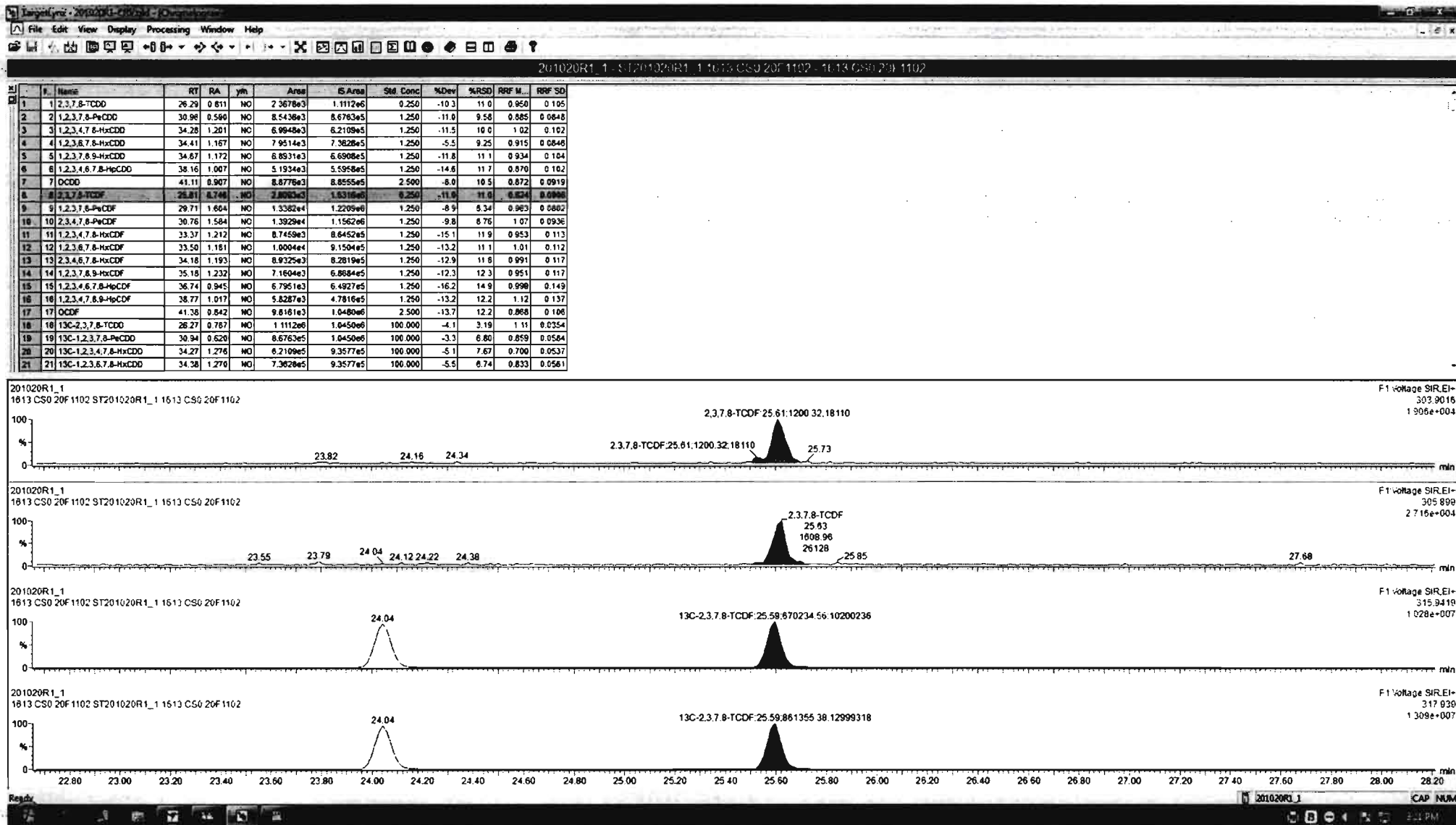
201020R1\_1



### DPE1

201020R1\_1





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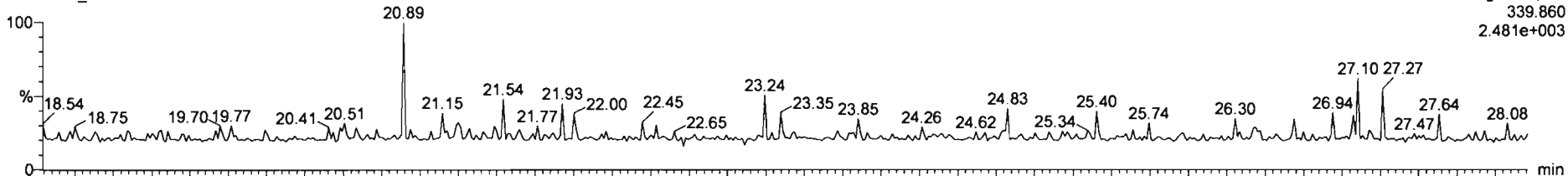
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1\_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

1st Func. Penta-Furans

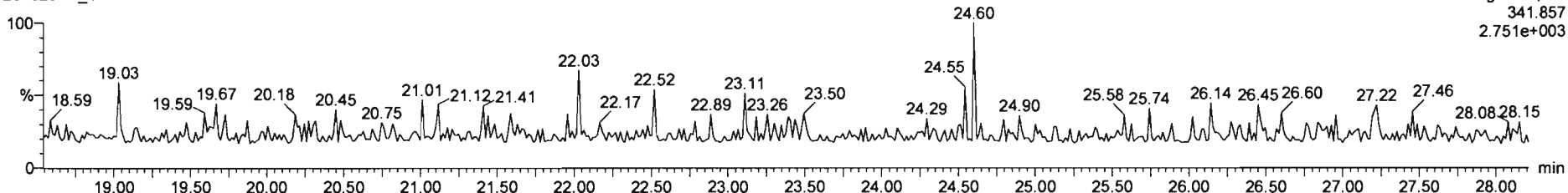
201020R1\_1

F1:Voltage SIR,EI+  
339.860  
2.481e+003



201020R1\_1

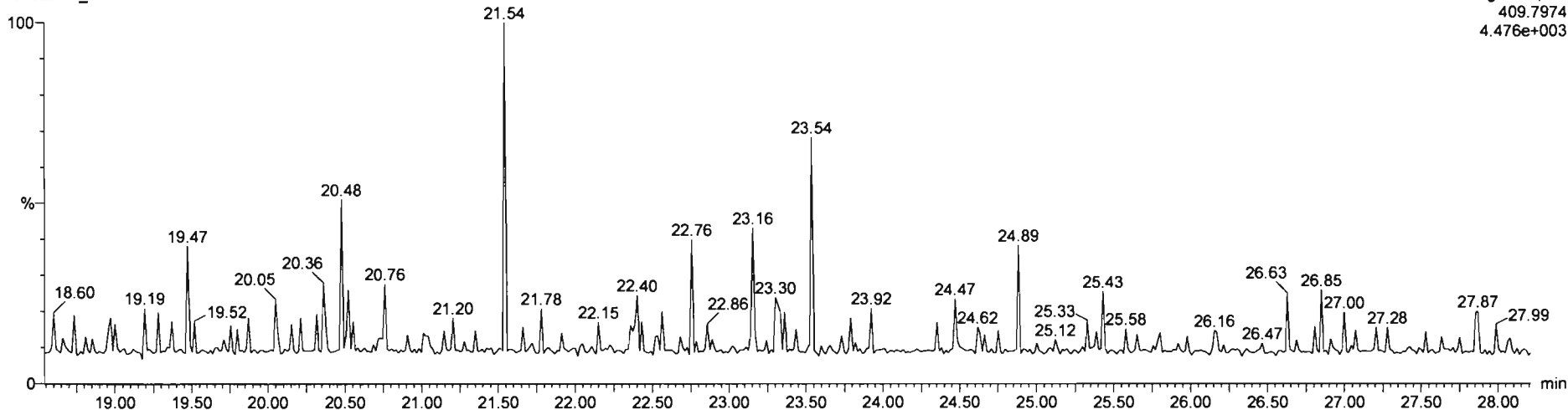
F1:Voltage SIR,EI+  
341.857  
2.751e+003



DPE6

201020R1\_1

F1:Voltage SIR,EI+  
409.7974  
4.476e+003



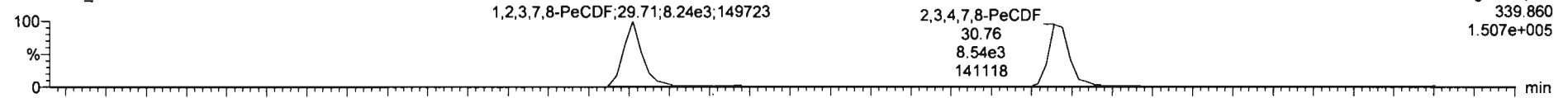
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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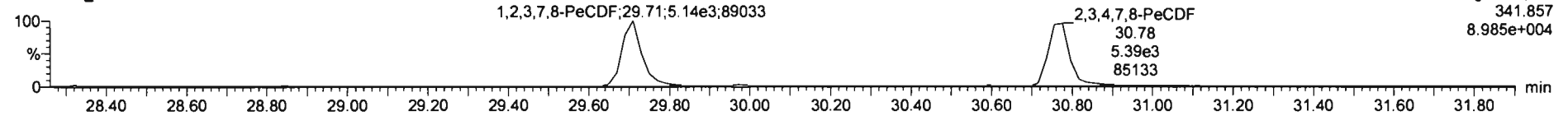
**1,2,3,7,8-PeCDF**

201020R1\_1



F2: Voltage SIR, EI+  
339.860  
1.507e+005

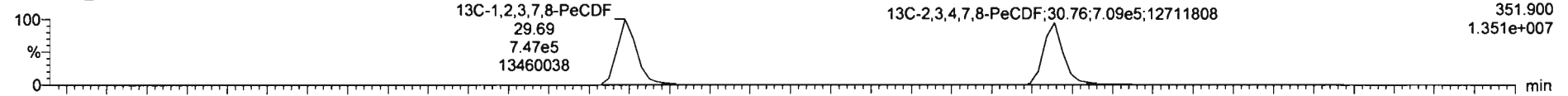
201020R1\_1



F2: Voltage SIR, EI+  
341.857  
8.985e+004

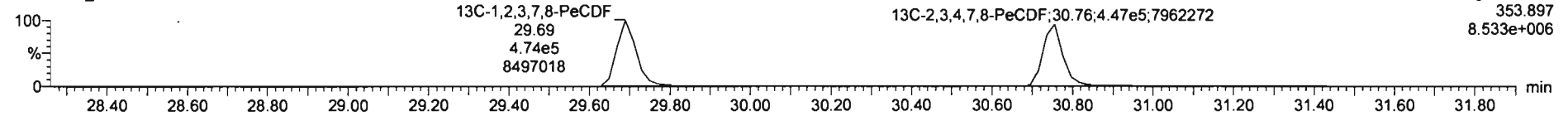
**13C-1,2,3,7,8-PeCDF**

201020R1\_1



F2: Voltage SIR, EI+  
351.900  
1.351e+007

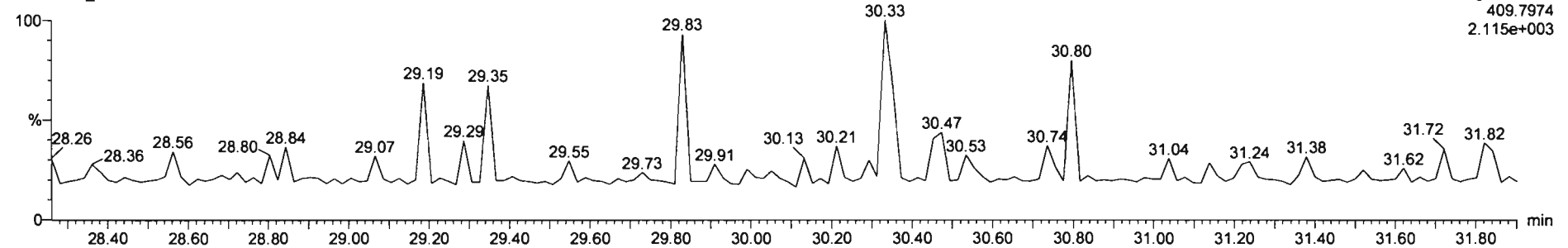
201020R1\_1



F2: Voltage SIR, EI+  
353.897  
8.533e+006

**DPE2**

201020R1\_1



F2: Voltage SIR, EI+  
409.7974  
2.115e+003

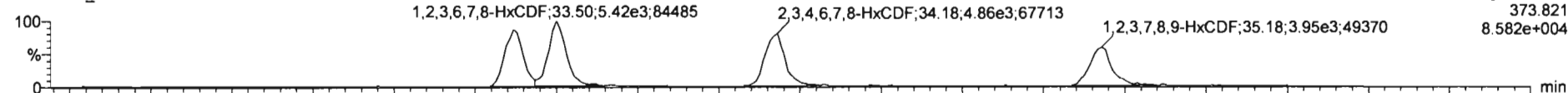
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

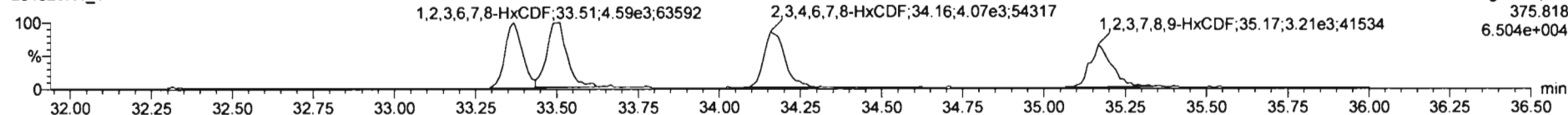
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**1,2,3,4,7,8-HxCDF**

201020R1\_1

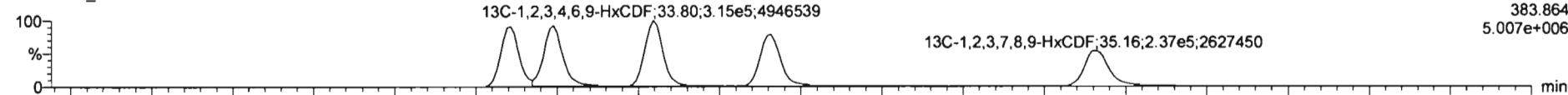


201020R1\_1

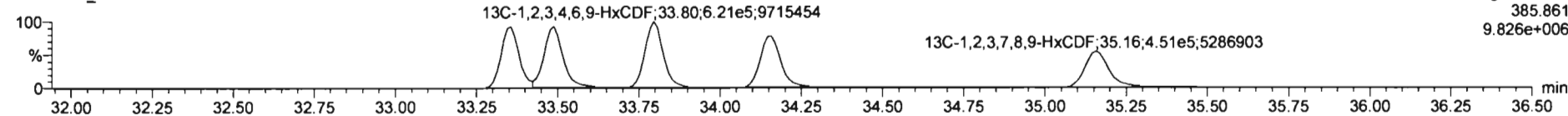


**13C-1,2,3,4,7,8-HxCDF**

201020R1\_1

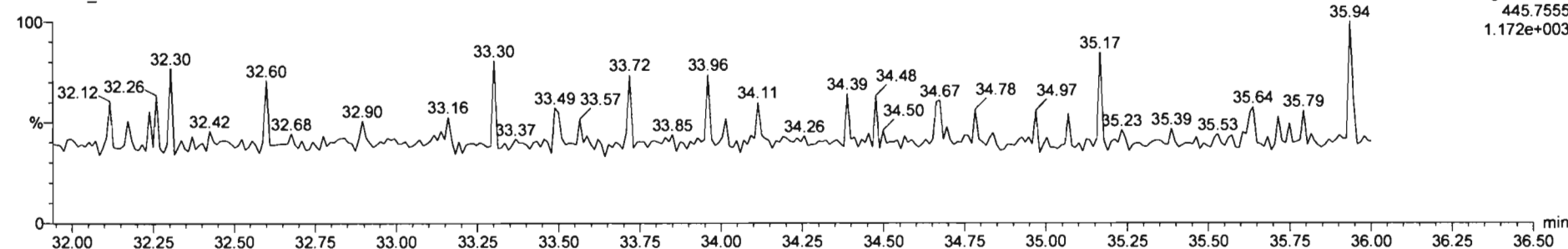


201020R1\_1

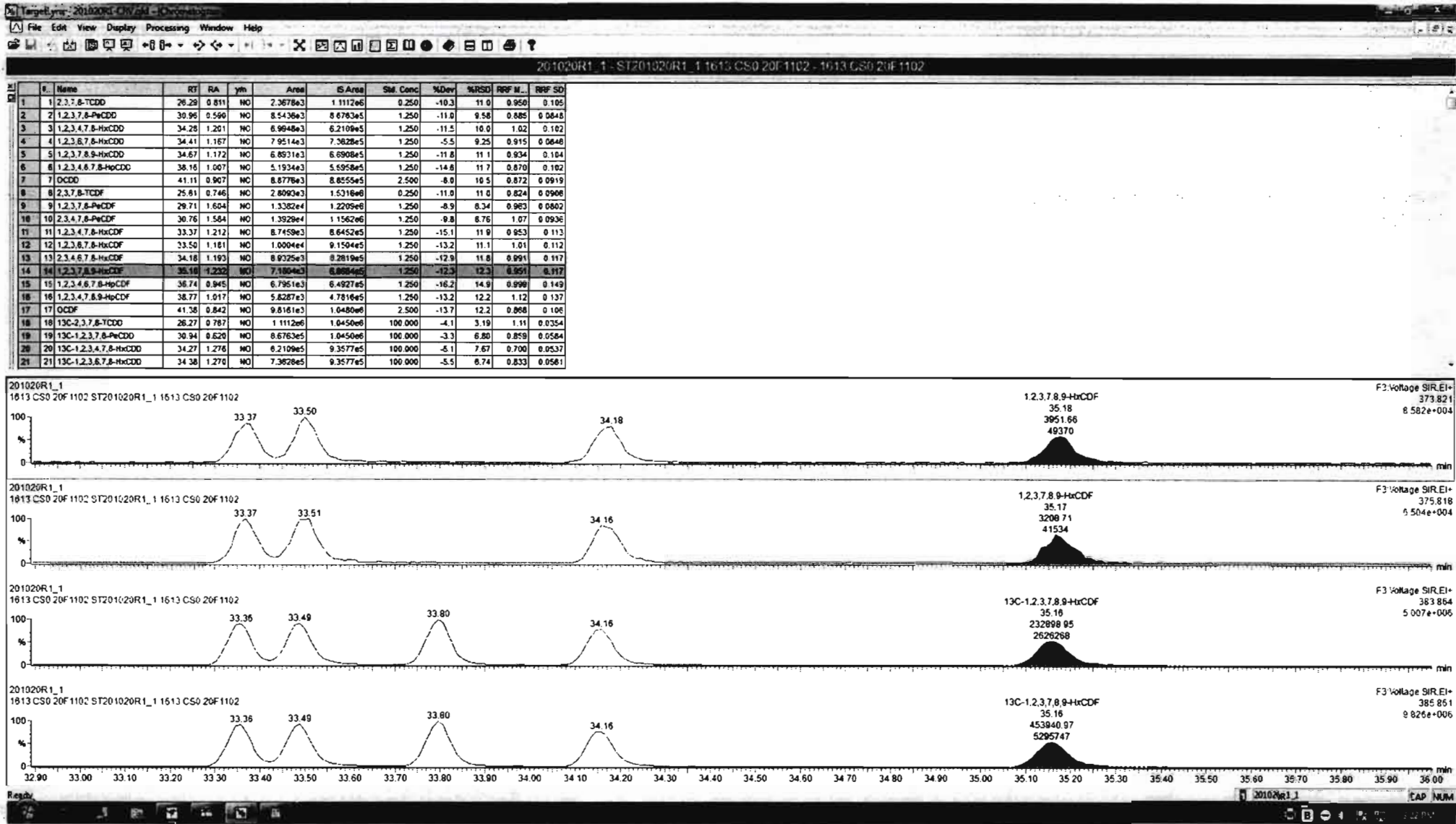


**DPE3**

201020R1\_1





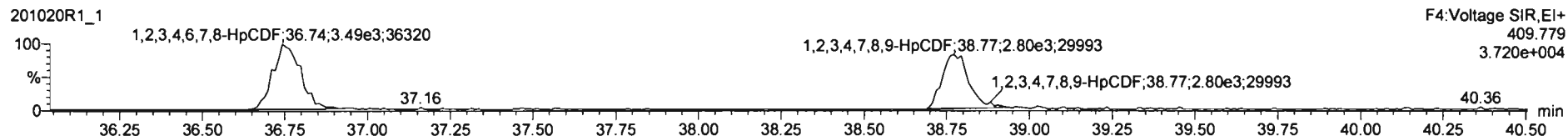
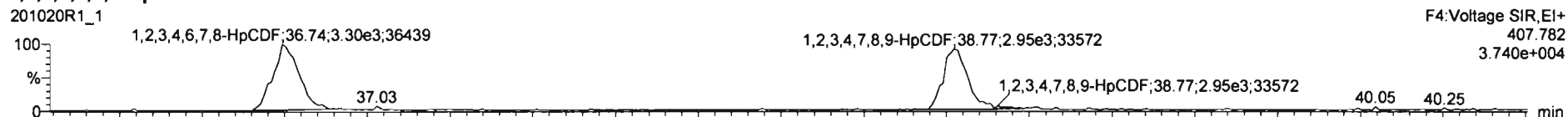


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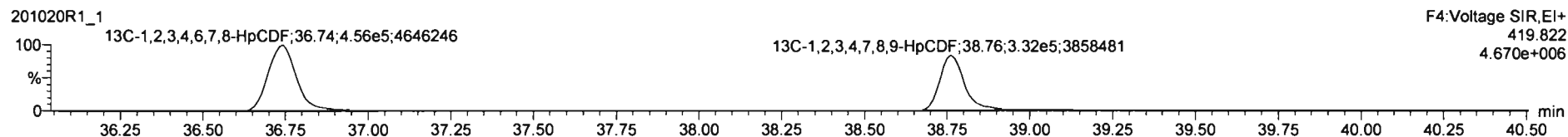
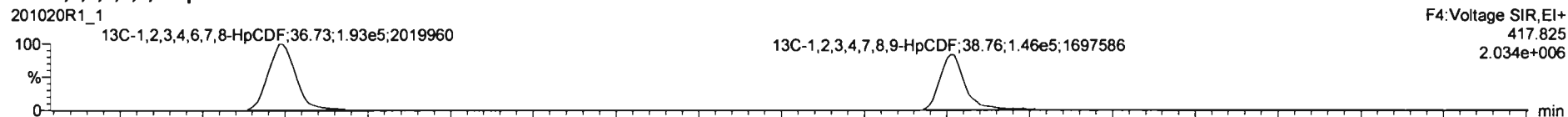
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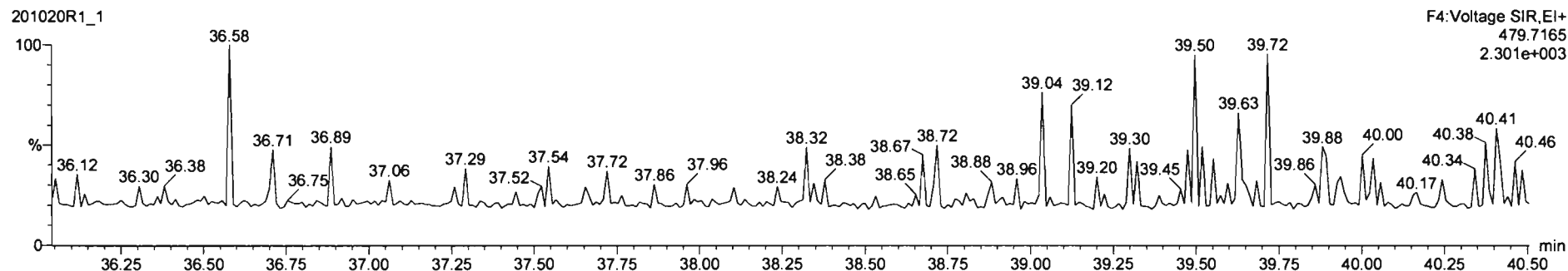
**1,2,3,4,6,7,8-HpCDF**



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

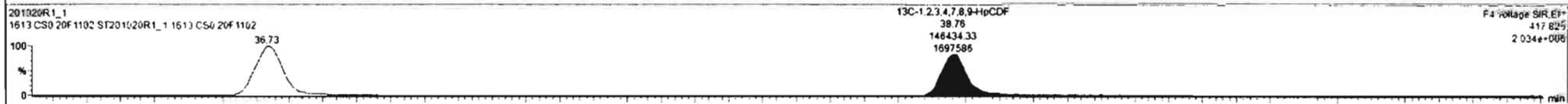
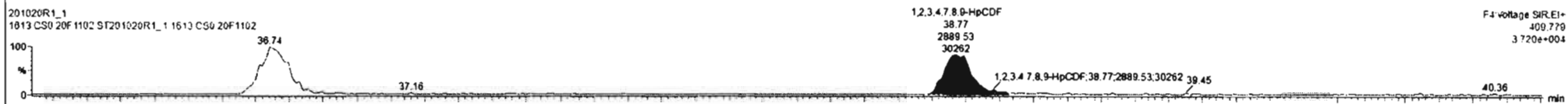
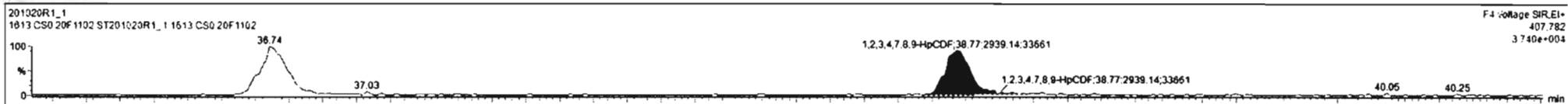


**DPE4**



201020R1\_1 - ST201020R1\_1 1613 CS0 20F 1102 - 1613 CS0 20F 1102

#	Name	RT	RA	Yth	Area	IS Area	Std. Conc	NDev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5436e3	8.6763e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	8.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3828e5	1.250	-5.5	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8531e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.007	NO	5.1934e3	5.5958e5	1.250	-14.8	11.7	0.970	0.102
7	OCDD	41.11	0.907	NO	8.6778e3	8.8555e5	2.500	-8.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.6093e3	1.5316e6	0.250	-11.0	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.604	NO	1.3382e4	1.2205e6	1.250	-8.9	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3929e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.181	NO	1.0004e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.9325e3	8.2819e5	1.250	-12.9	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1604e3	6.8684e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.817	NO	5.8077e3	4.7818e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8181e3	1.0480e6	2.500	-13.7	12.2	0.866	0.106
18	13C-2,3,7,8-TCDD	26.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	8.6763e5	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.276	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.706	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.270	NO	7.3828e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0561



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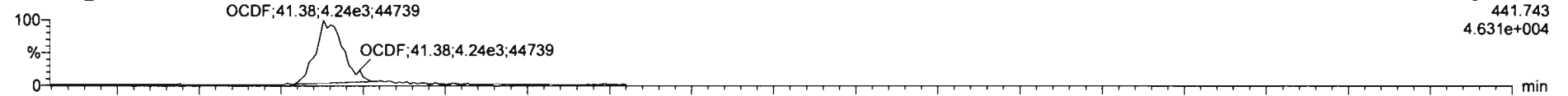
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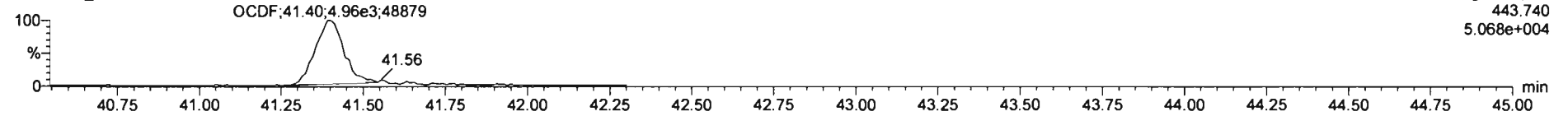
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**OCDF**

201020R1\_1

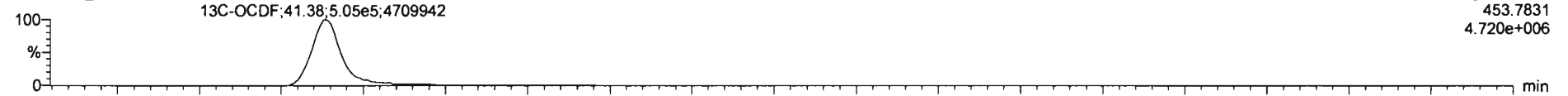


201020R1\_1

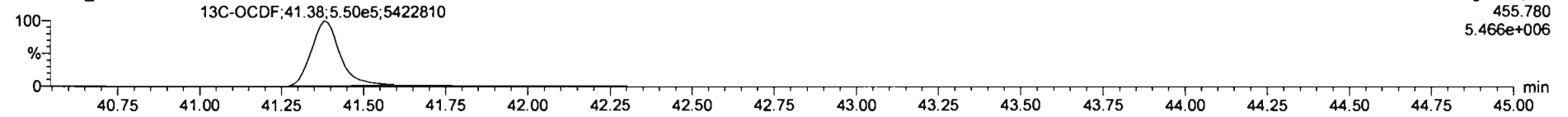


**13C-OCDF**

201020R1\_1

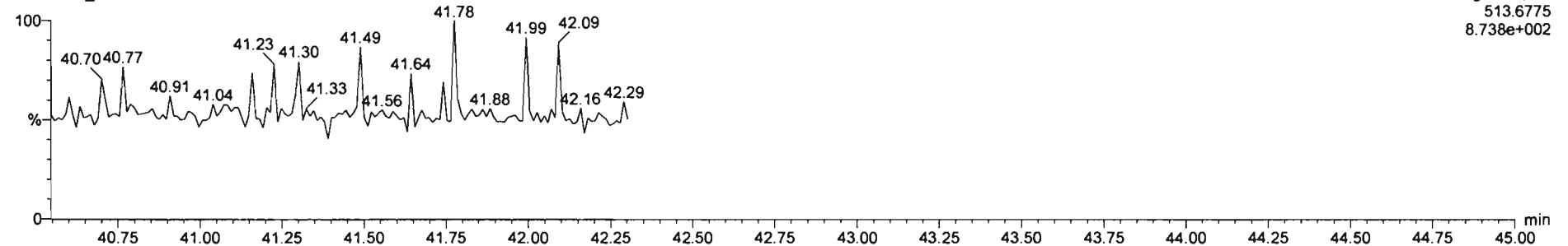


201020R1\_1

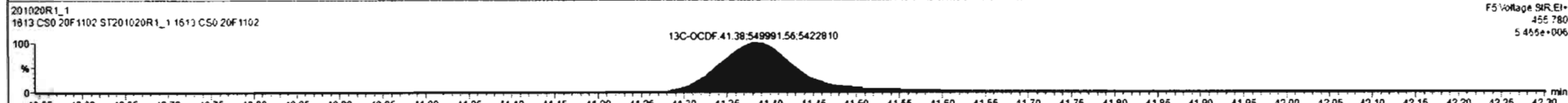
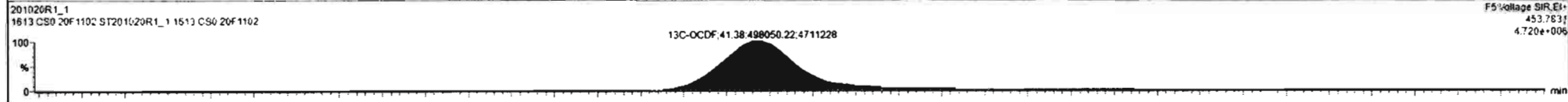
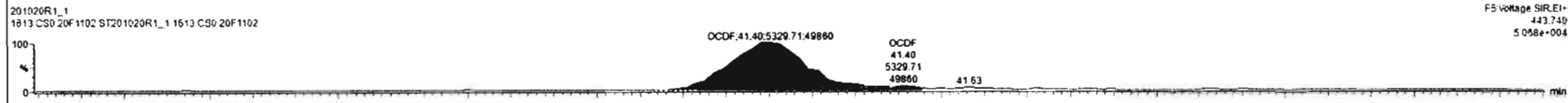
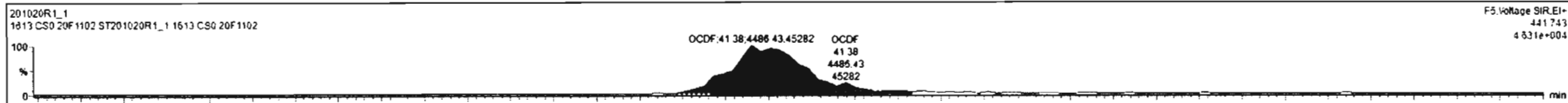


**DPE5**

201020R1\_1



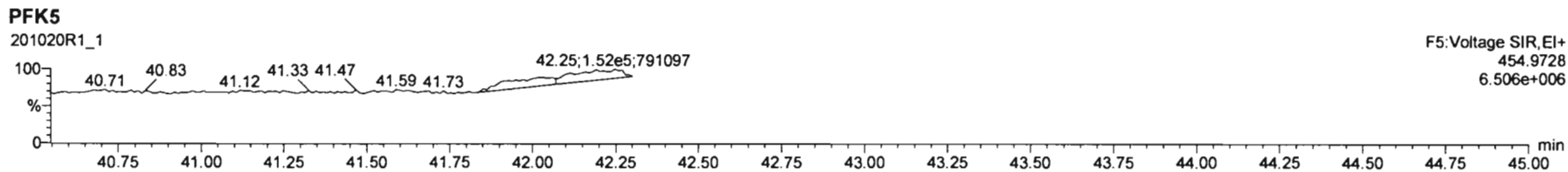
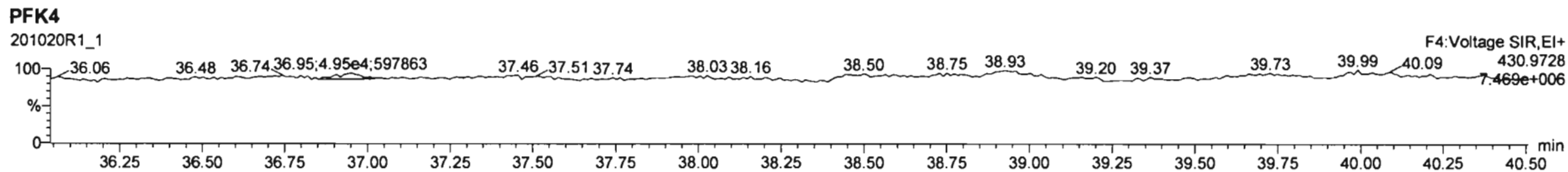
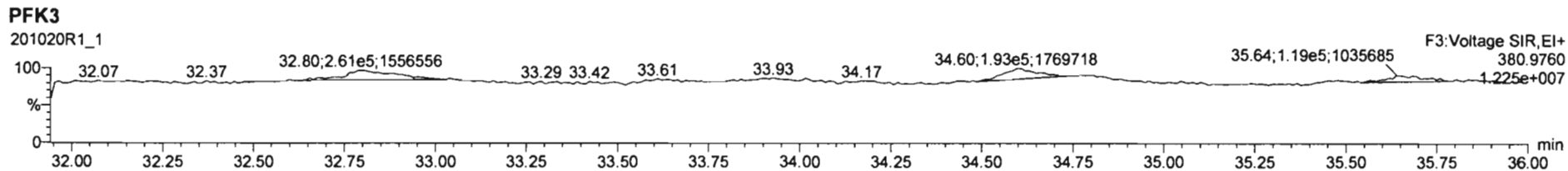
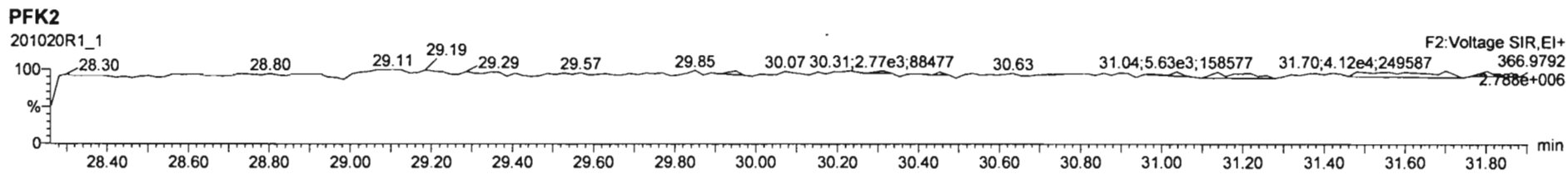
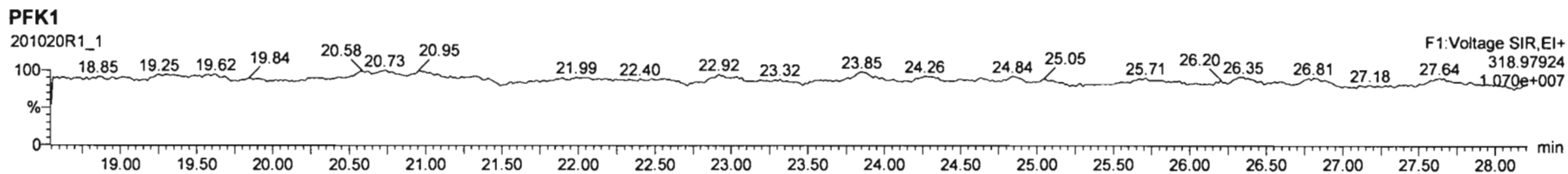
#	Name	RT	RA	Yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5436e3	8.6763e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3628e5	1.250	-5.5	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8531e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.007	NO	5.1934e3	5.5958e5	1.250	-14.6	11.7	0.870	0.102
7	OCDF	41.11	0.907	NO	8.8778e3	8.8555e5	2.500	-8.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.8093e3	1.5316e6	0.250	-11.0	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.604	NO	1.3382e4	1.2209e6	1.250	-8.9	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3929e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.181	NO	1.0004e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.9325e3	8.2819e5	1.250	-12.9	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1604e3	6.8684e5	1.250	-12.2	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.017	NO	5.8287e3	4.7816e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	8.8161e3	1.8480e6	2.990	-13.7	12.2	0.888	0.106
18	13C-2,3,7,8-TCDD	26.27	0.767	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	8.6763e5	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.276	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.270	NO	7.3628e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0561



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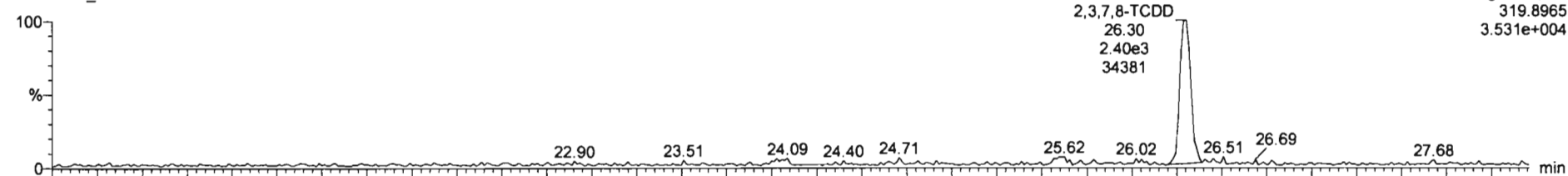
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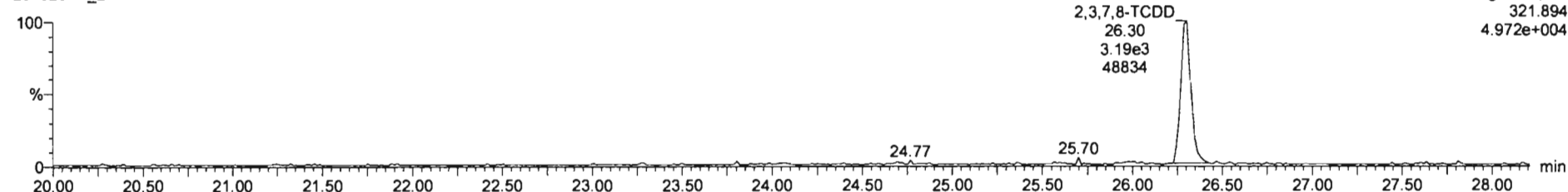
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**2,3,7,8-TCDD**

201020R1\_2



201020R1\_2

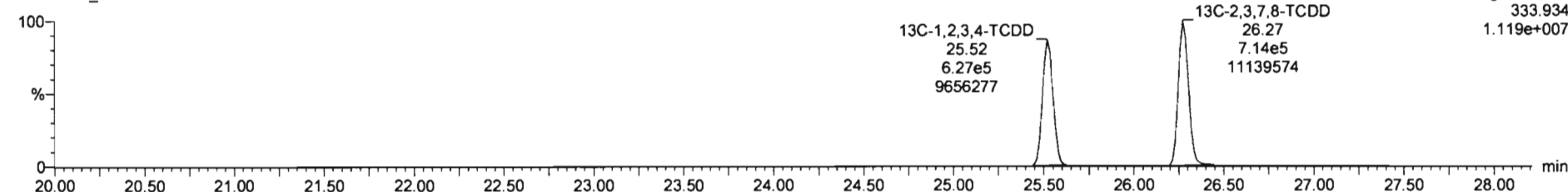


**13C-2,3,7,8-TCDD**

201020R1\_2



201020R1\_2



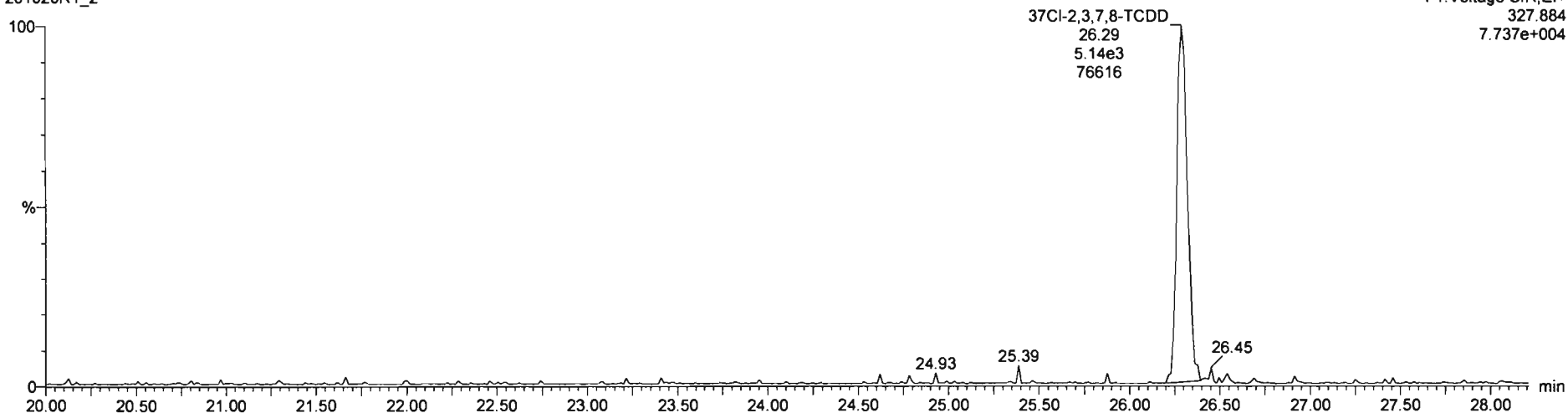
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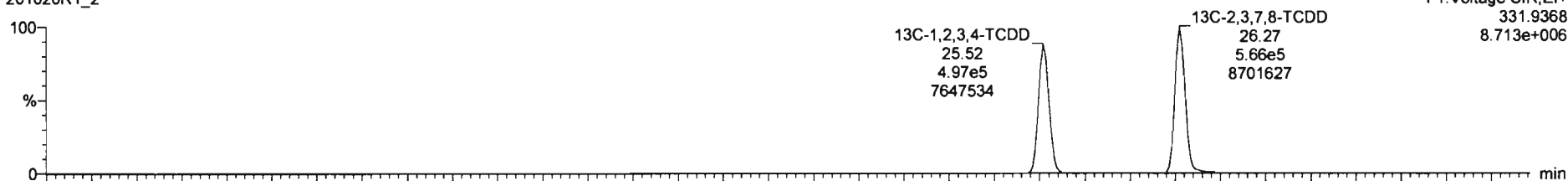
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201020R1\_2

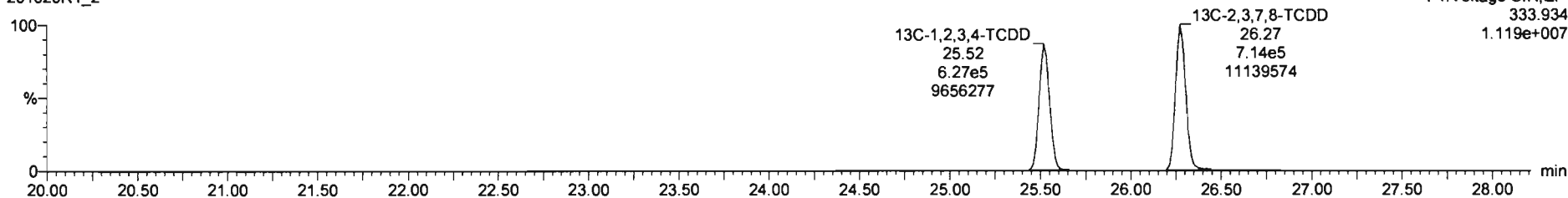


**13C-1,2,3,4-TCDD**

201020R1\_2



201020R1\_2





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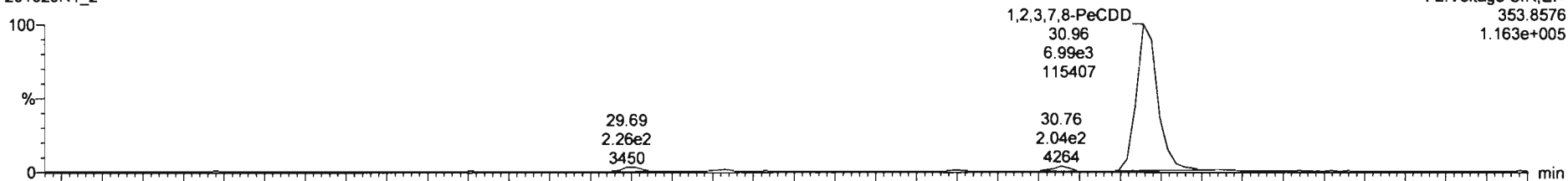
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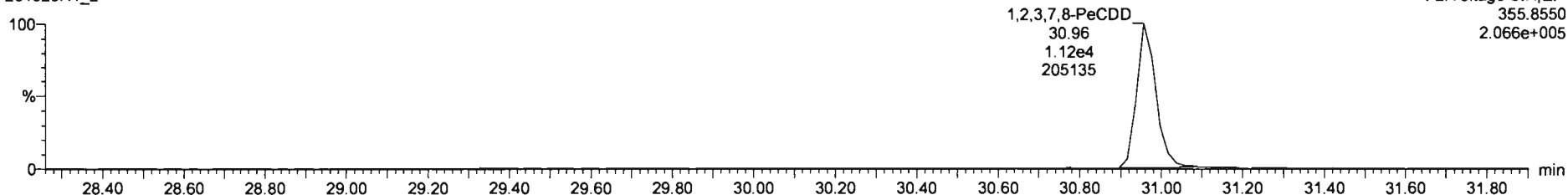
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**1,2,3,7,8-PeCDD**

201020R1\_2

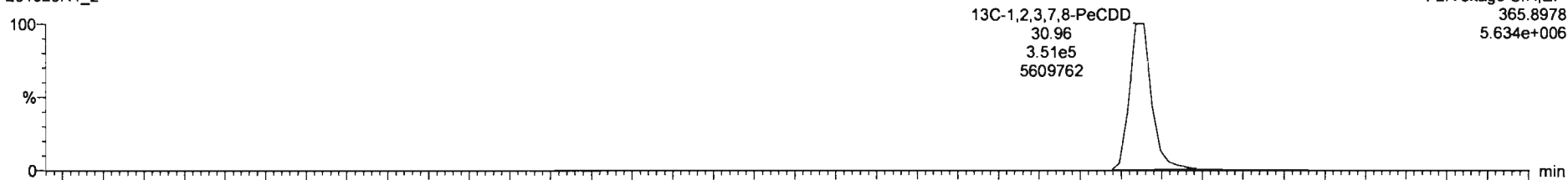


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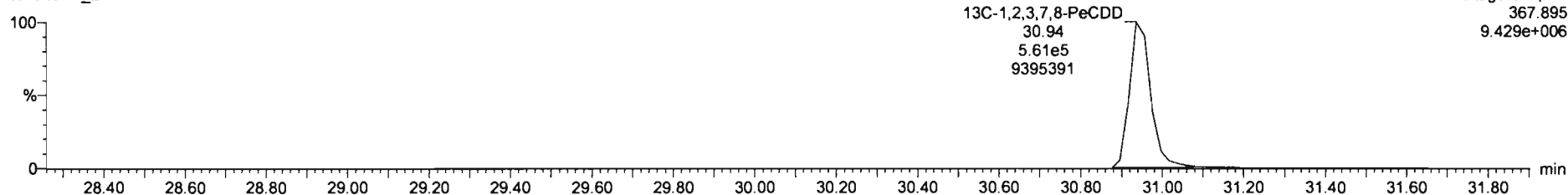


**13C-1,2,3,7,8-PeCDD**

201020R1\_2



201020R1\_2



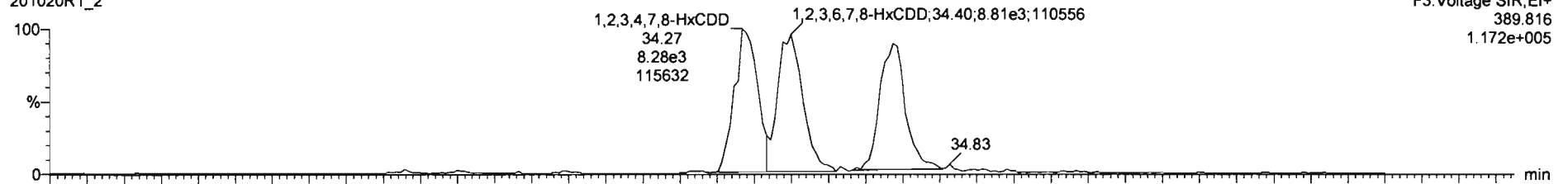
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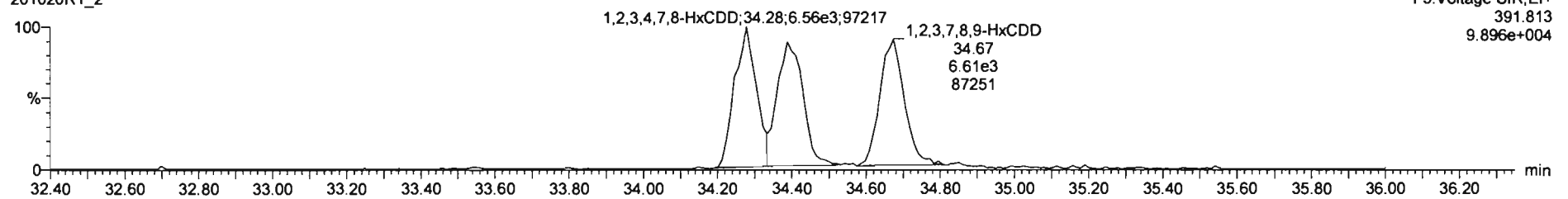
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1,2,3,4,7,8-HxCDD

201020R1\_2

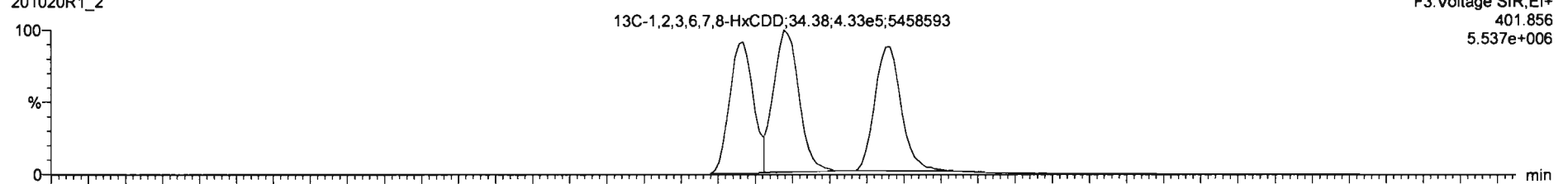


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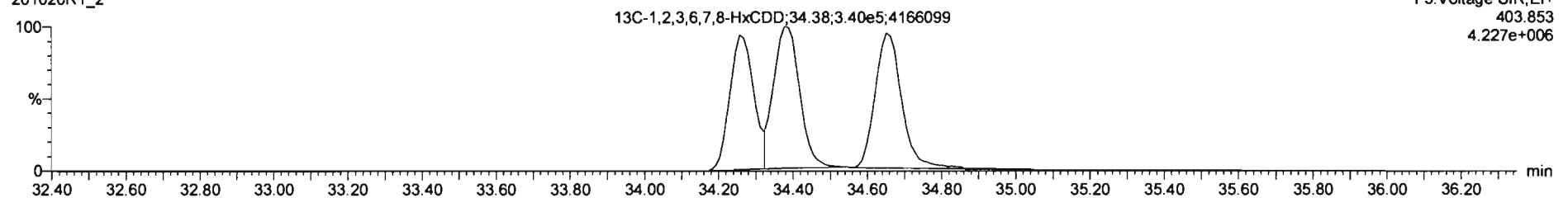


13C-1,2,3,4,7,8-HxCDD

201020R1\_2



201020R1\_2



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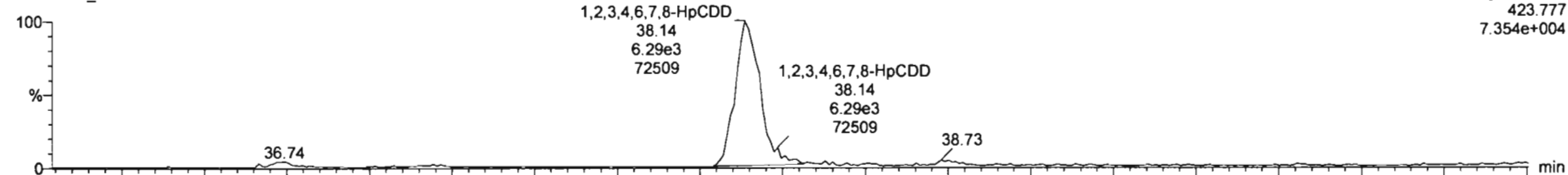
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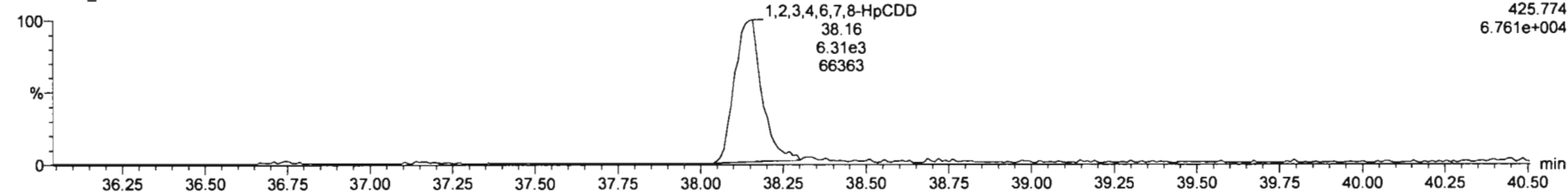
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**1,2,3,4,6,7,8-HpCDD**

201020R1\_2

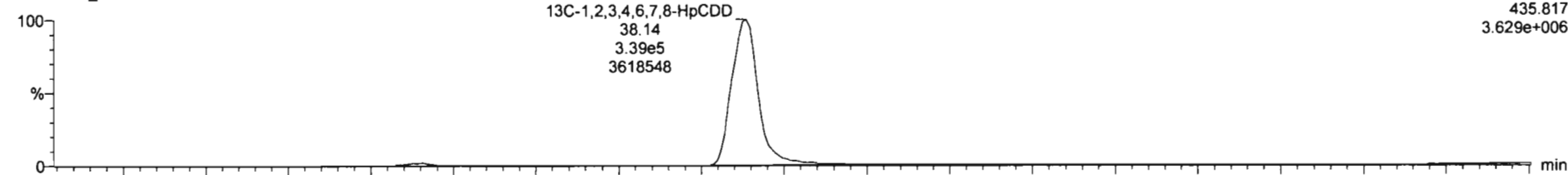


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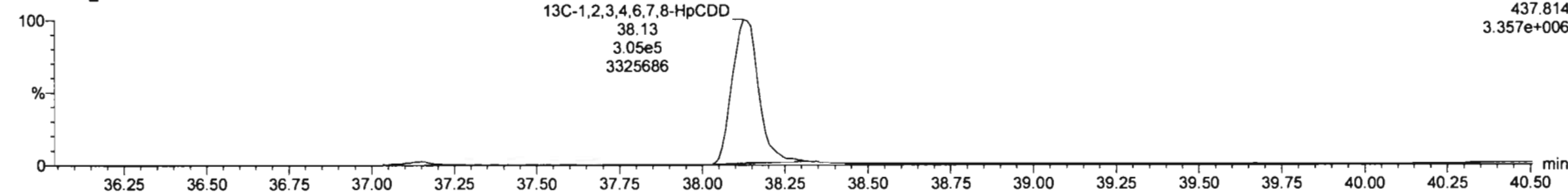


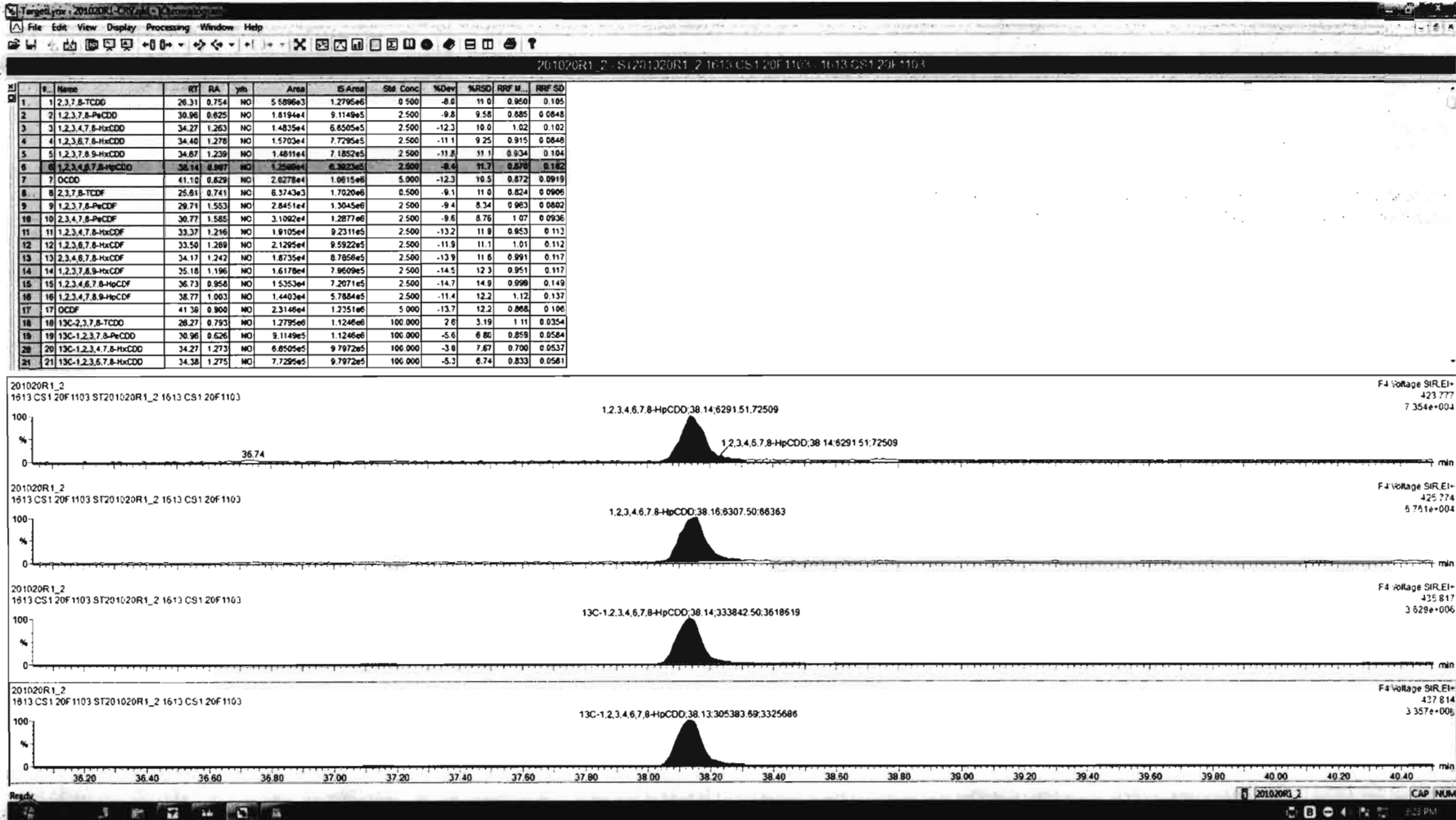
**13C-1,2,3,4,6,7,8-HpCDD**

201020R1\_2



201020R1\_2





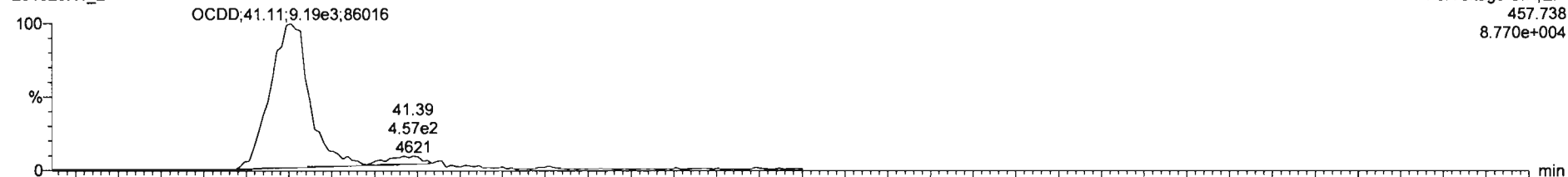
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

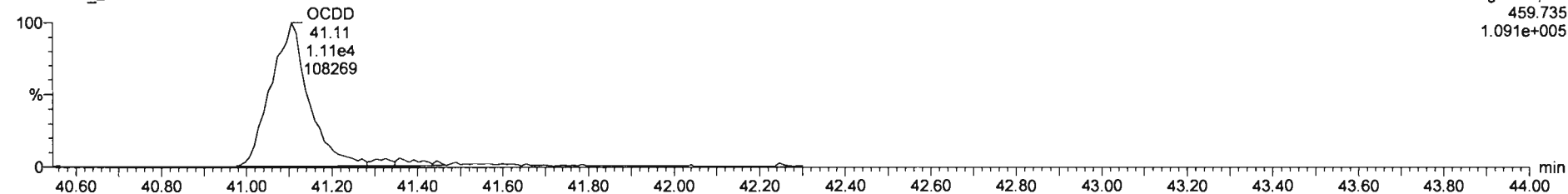
Name: 201020R1\_2, Date: 20-Oct-2020, Time: 10:04:05, ID: ST201020R1\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

**OCDD**

201020R1\_2

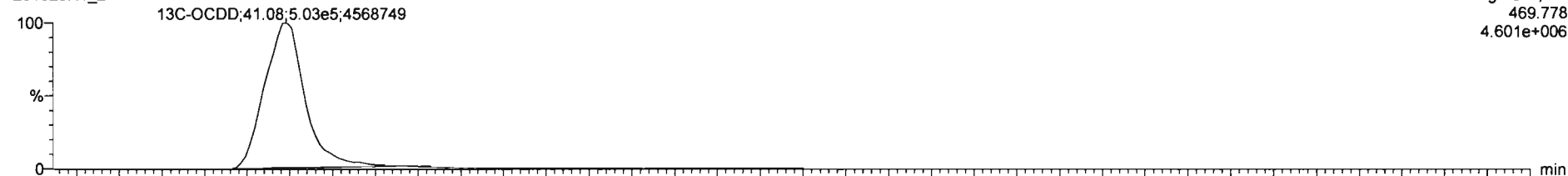


201020R1\_2

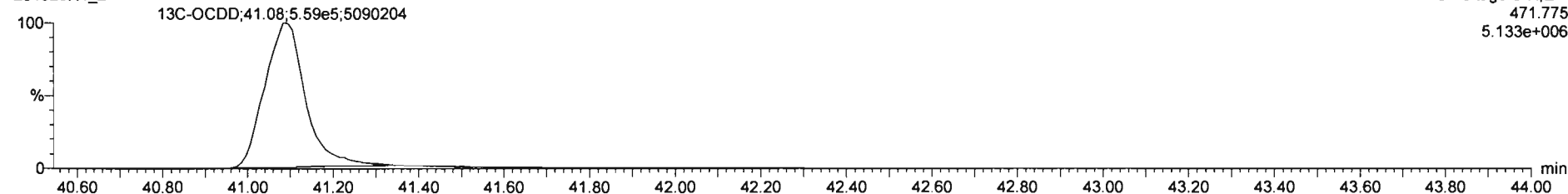


**13C-OCDD**

201020R1\_2



201020R1\_2



Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_2, Date: 20-Oct-2020, Time: 10:04:05, ID: ST201020R1\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

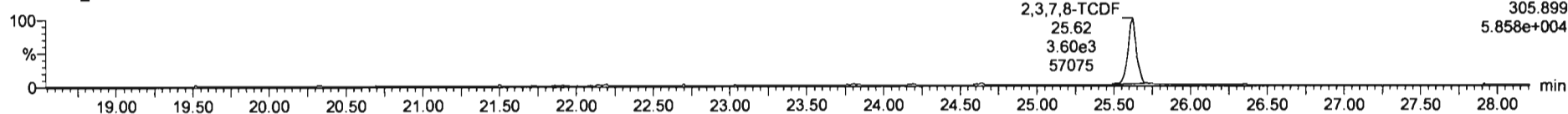
### 2,3,7,8-TCDF

201020R1\_2



F1: Voltage SIR, EI+  
303.9016  
3.959e+004

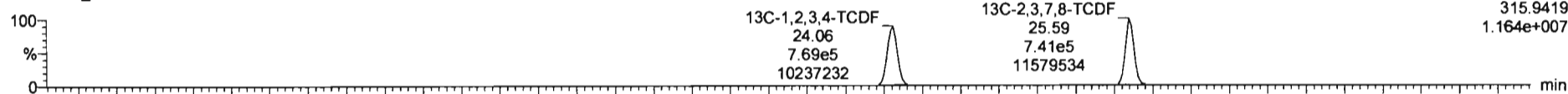
201020R1\_2



F1: Voltage SIR, EI+  
305.899  
5.858e+004

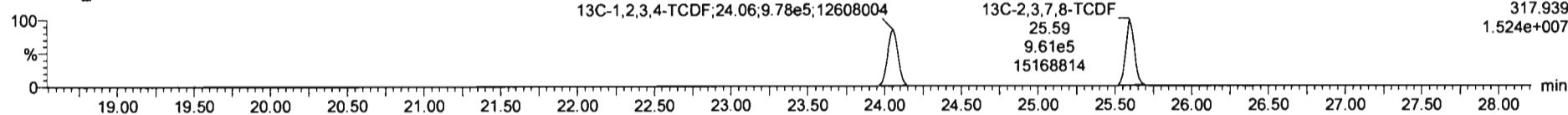
### 13C-2,3,7,8-TCDF

201020R1\_2



F1: Voltage SIR, EI+  
315.9419  
1.164e+007

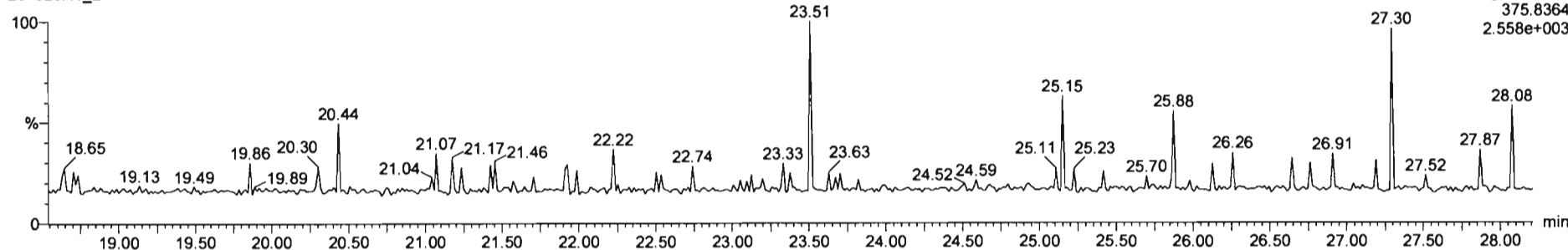
201020R1\_2



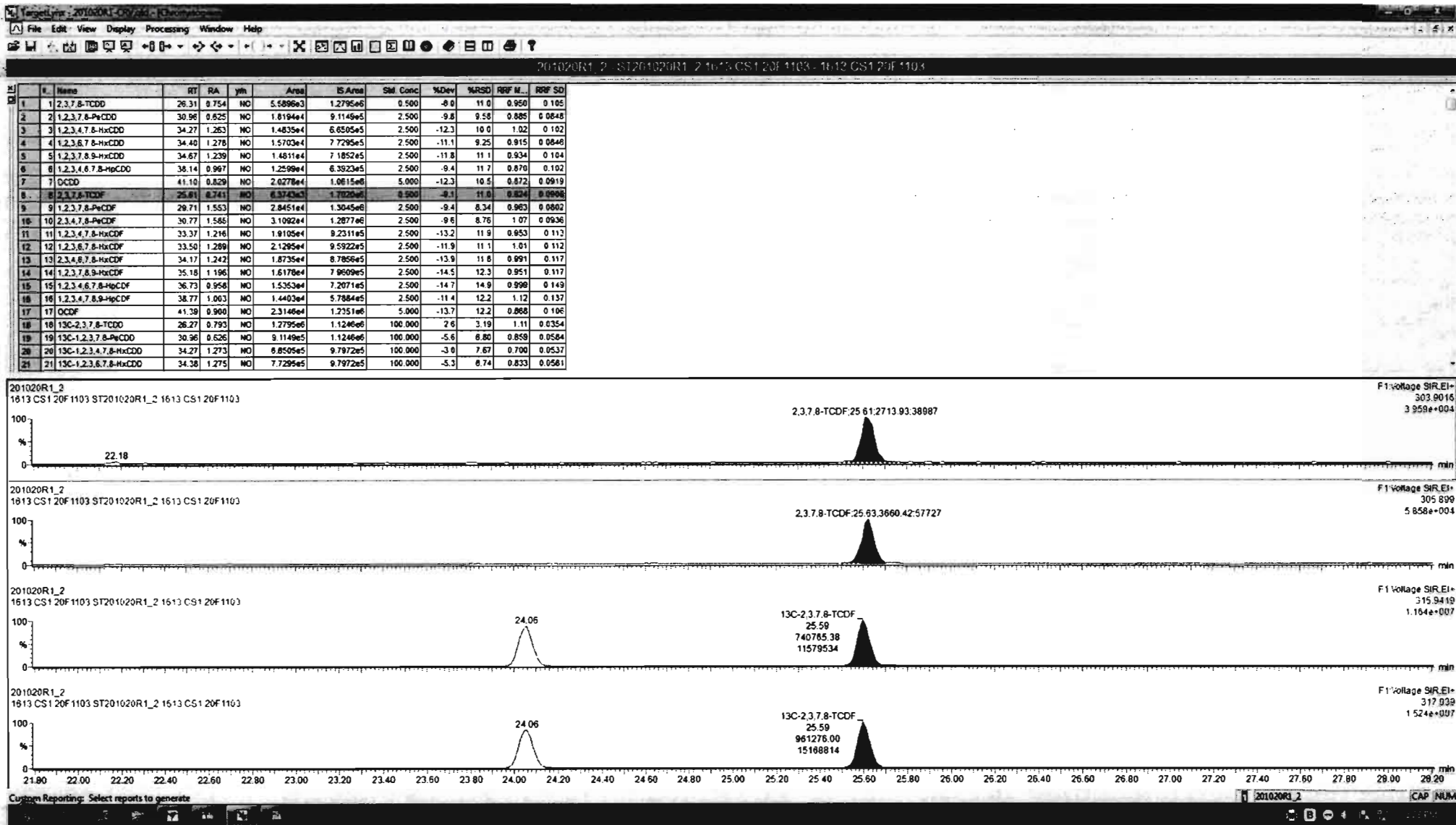
F1: Voltage SIR, EI+  
317.939  
1.524e+007

### DPE1

201020R1\_2



F1: Voltage SIR, EI+  
375.8364  
2.558e+003



Dataset: Untitled

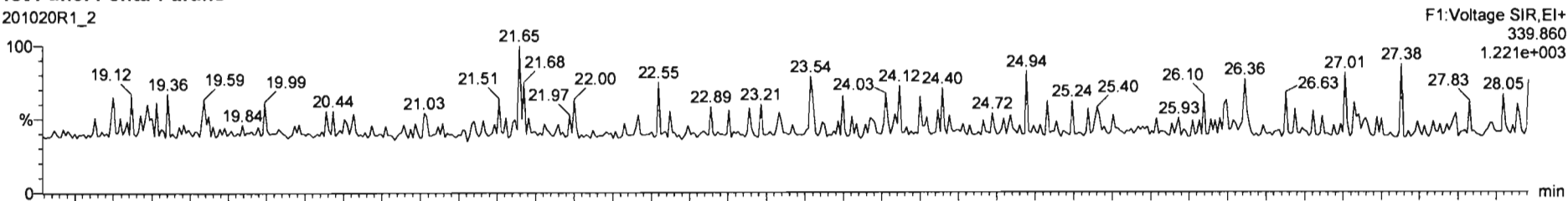
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

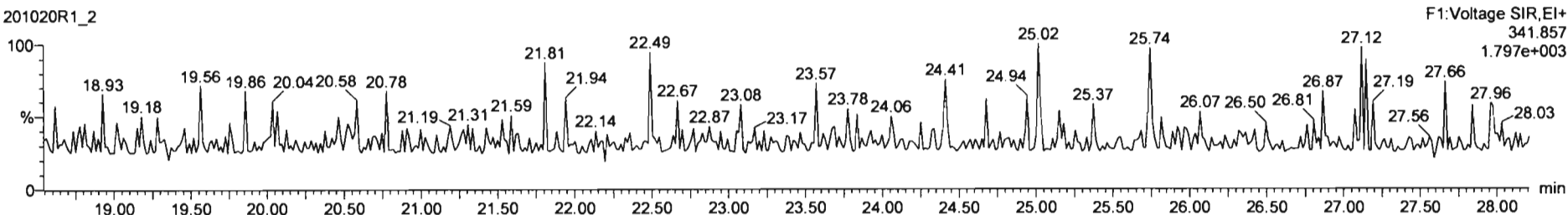
Name: 201020R1\_2, Date: 20-Oct-2020, Time: 10:04:05, ID: ST201020R1\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

1st Func. Penta-Furans

201020R1\_2

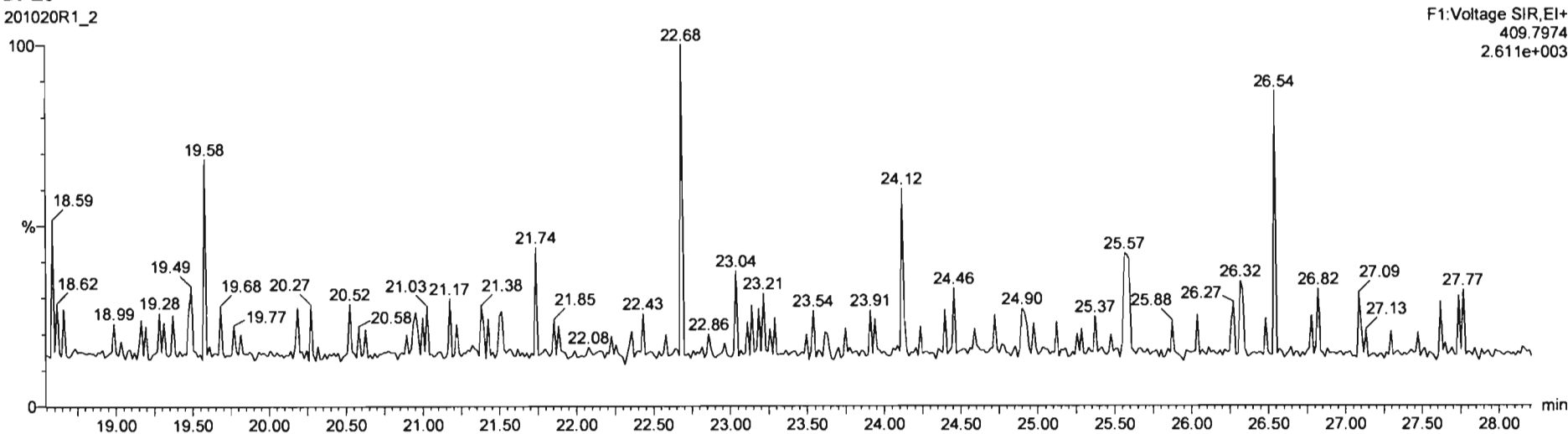


201020R1\_2



DPE6

201020R1\_2





Dataset: Untitled

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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

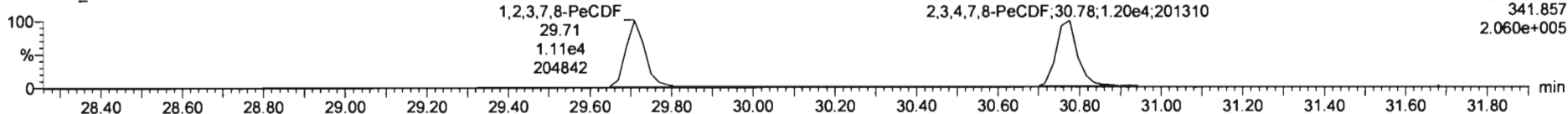
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**1,2,3,7,8-PeCDF**

201020R1\_2

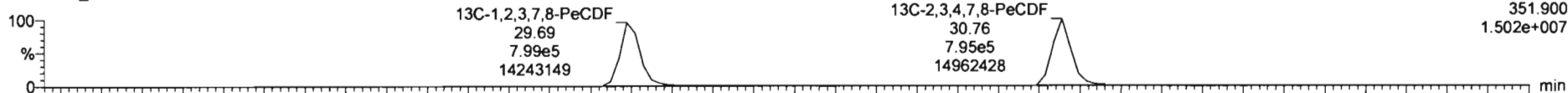


201020R1\_2

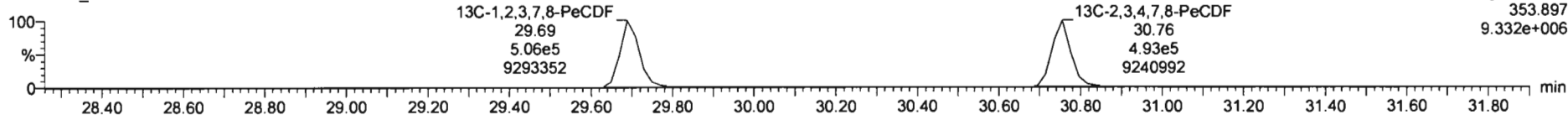


**13C-1,2,3,7,8-PeCDF**

201020R1\_2

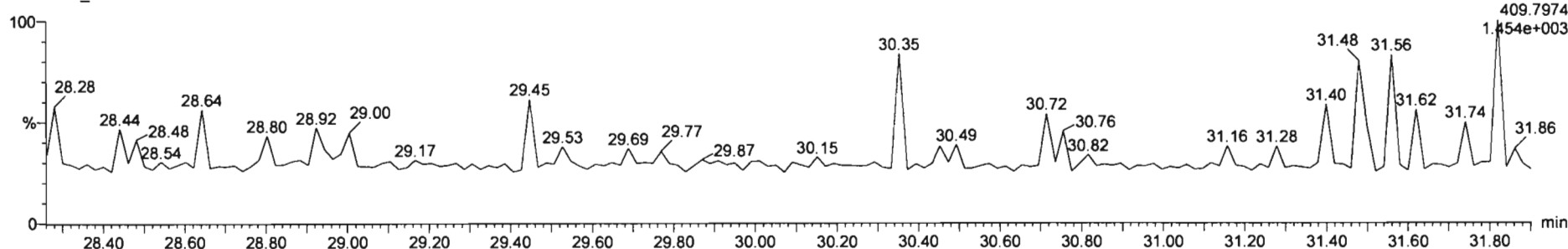


201020R1\_2



**DPE2**

201020R1\_2



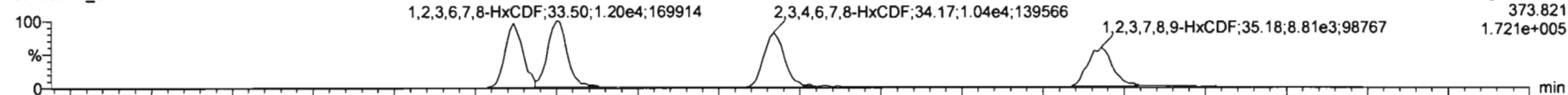
Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

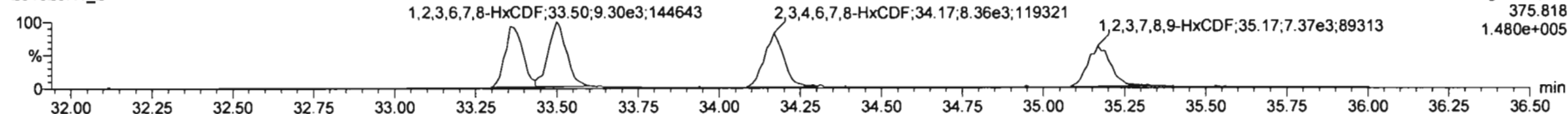
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**1,2,3,4,7,8-HxCDF**

201020R1\_2

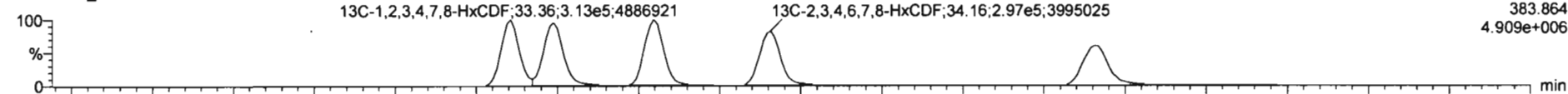


201020R1\_2

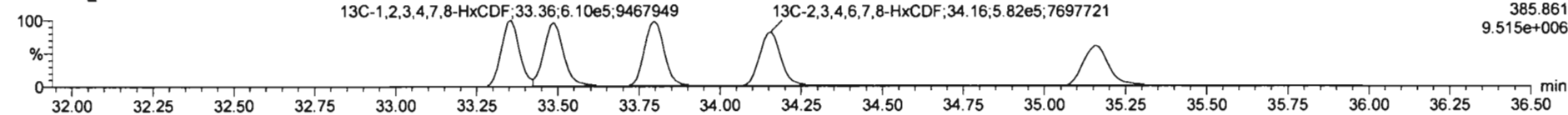


**13C-1,2,3,4,7,8-HxCDF**

201020R1\_2

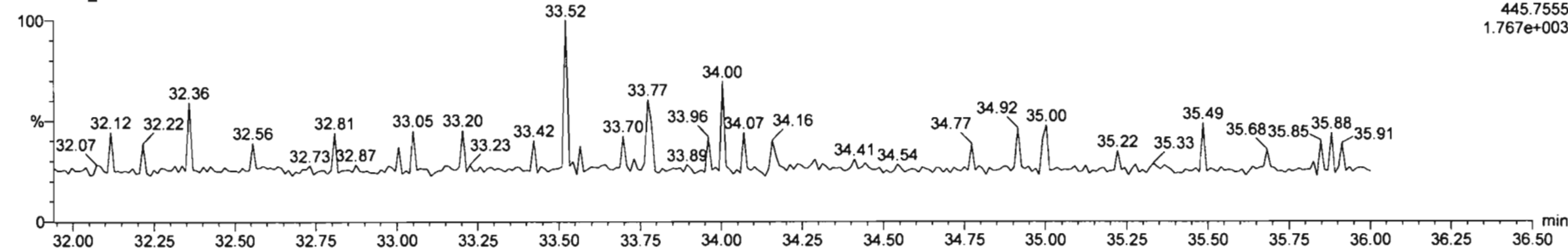


201020R1\_2



**DPE3**

201020R1\_2



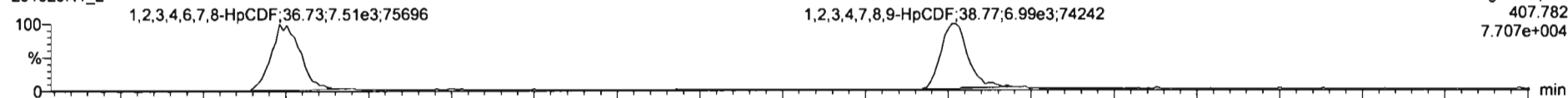
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

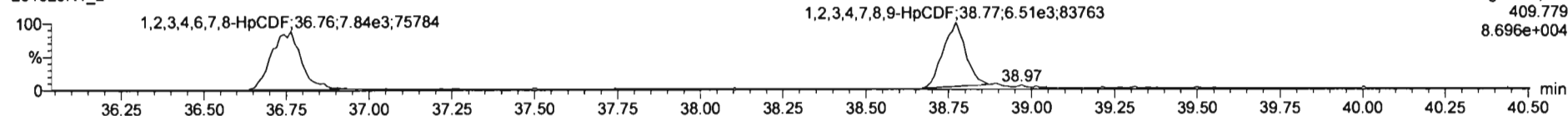
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**1,2,3,4,6,7,8-HpCDF**

201020R1\_2

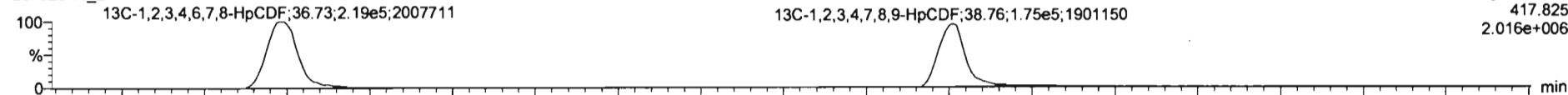


201020R1\_2

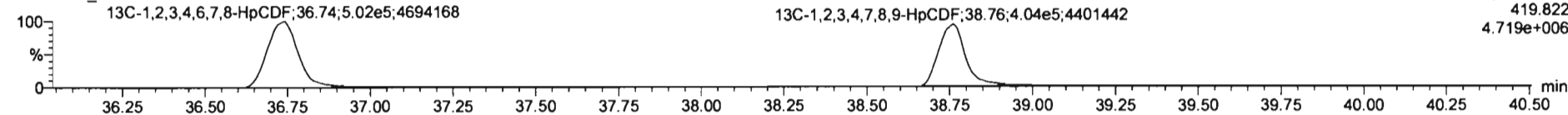


**13C-1,2,3,4,6,7,8-HpCDF**

201020R1\_2

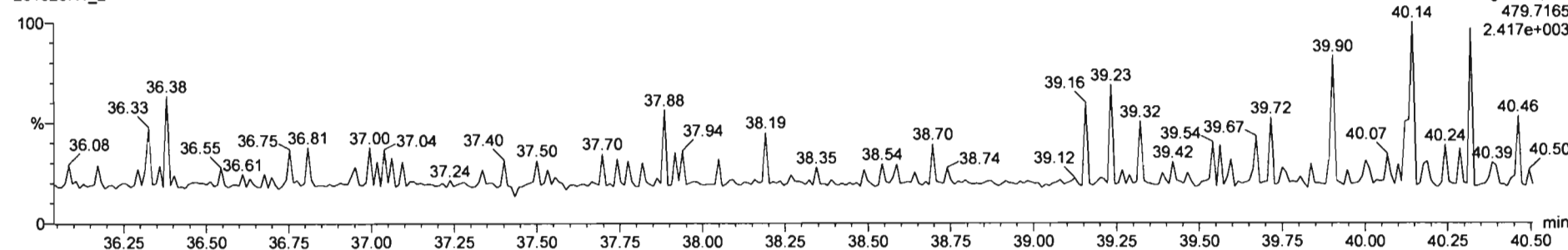


201020R1\_2

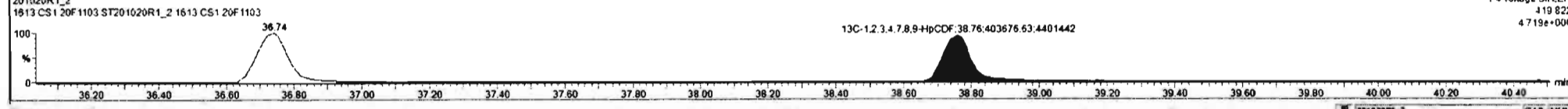
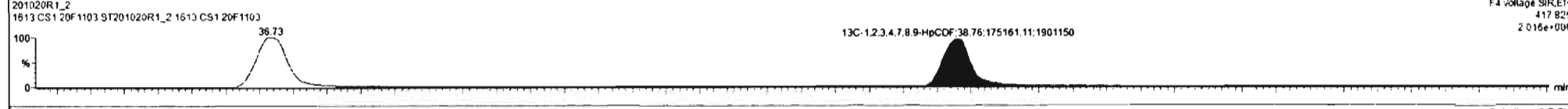
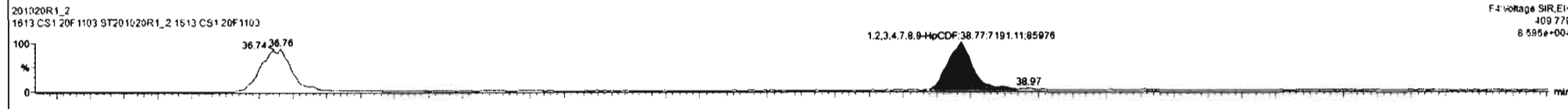
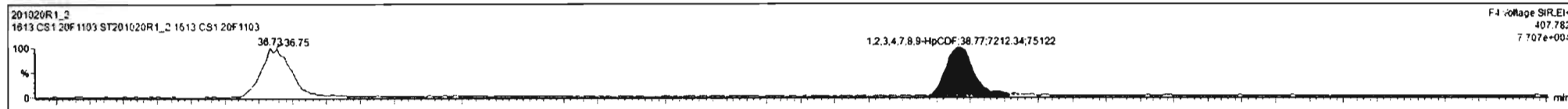


**DPE4**

201020R1\_2



#	Rt	Name	RT	RA	Yn	Area	IS Area	Std Conc	%Dev	%RSD	RRF N...	RRF SD
1	26.31	2,3,7,8-TCDD	26.31	0.754	NO	5.5896e3	1.2795e6	0.500	-8.0	11.0	0.950	0.105
2	30.96	1,2,3,7,8-PeCDD	30.96	0.625	NO	1.8194e4	9.1149e5	2.500	-9.8	9.58	0.885	0.0848
3	34.27	1,2,3,4,7,8-HxCDD	34.27	1.263	NO	1.4835e4	6.6505e5	2.500	-12.3	10.0	1.02	0.102
4	34.40	1,2,3,6,7,8-HxCDD	34.40	1.278	NO	1.5703e4	7.7295e5	2.500	-11.1	9.25	0.915	0.0846
5	34.67	1,2,3,7,8,9-HxCDD	34.67	1.239	NO	1.4811e4	7.1852e5	2.500	-11.8	11.1	0.934	0.104
6	38.14	1,2,3,4,6,7,8-HpCDD	38.14	0.997	NO	1.2599e4	6.3923e5	2.500	9.4	11.7	0.870	0.102
7	41.10	OCDD	41.10	0.829	NO	2.0278e4	1.0615e6	5.000	-12.3	10.5	0.872	0.0919
8	25.81	2,3,7,8-TCDF	25.81	0.741	NO	6.3743e3	1.7020e6	0.500	-9.1	11.0	0.824	0.0906
9	29.71	1,2,3,7,8-PeCDF	29.71	1.553	NO	2.8451e4	1.3045e6	2.500	-9.4	8.34	0.963	0.0802
10	30.77	2,3,4,7,8-PeCDF	30.77	1.585	NO	3.1092e4	1.2877e6	2.500	-9.6	8.76	1.07	0.0936
11	33.37	1,2,3,4,7,8-HxCDF	33.37	1.216	NO	1.8105e4	9.2311e5	2.500	-13.2	11.9	0.853	0.113
12	33.50	1,2,3,6,7,8-HxCDF	33.50	1.289	NO	2.1295e4	9.5922e5	2.500	-11.9	11.1	1.01	0.112
13	34.17	2,3,4,6,7,8-HxCDF	34.17	1.242	NO	1.8735e4	8.7856e5	2.500	-13.9	11.6	0.991	0.117
14	35.18	1,2,3,7,8,9-HxCDF	35.18	1.196	NO	1.6178e4	7.9609e5	2.500	-14.5	12.3	0.951	0.117
15	36.73	1,2,3,4,6,7,8-HpCDF	36.73	0.958	NO	1.5353e4	7.2071e5	2.500	-14.7	14.9	0.990	0.149
16	38.77	1,2,3,4,7,8,9-HpCDF	38.77	1.903	NO	1.4402e4	5.7884e5	2.500	-11.4	12.2	1.12	0.137
17	41.38	OCDF	41.38	0.900	NO	2.3148e4	1.2351e6	5.000	-13.7	12.2	0.868	0.106
18	28.27	13C-2,3,7,8-TCDD	28.27	0.793	NO	1.2795e6	1.1246e6	100.000	2.6	3.19	1.11	0.0354
19	30.96	13C-1,2,3,7,8-PeCDD	30.96	0.626	NO	9.1149e5	1.1246e6	100.000	-5.6	6.80	0.859	0.0584
20	34.27	13C-1,2,3,4,7,8-HxCDD	34.27	1.273	NO	6.6505e5	9.7972e5	100.000	-3.0	7.67	0.700	0.0537
21	34.38	13C-1,2,3,6,7,8-HxCDD	34.38	1.275	NO	7.7295e5	9.7972e5	100.000	-5.3	6.74	0.833	0.0561

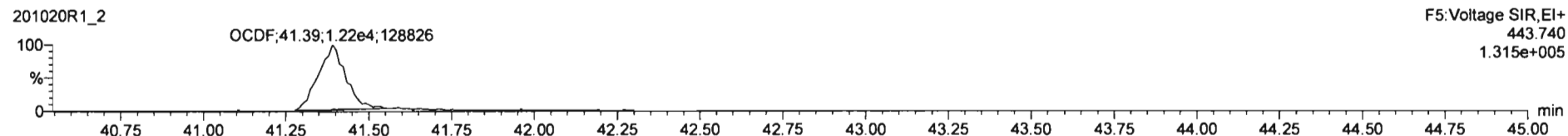
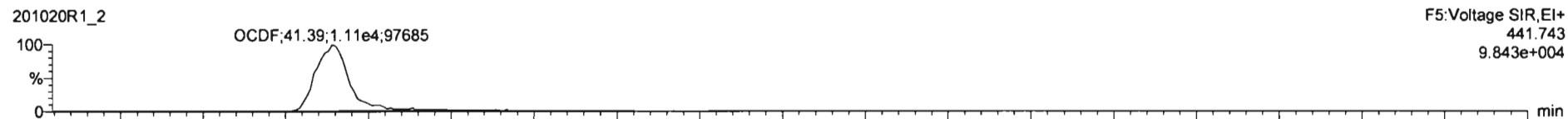


Dataset: Untitled

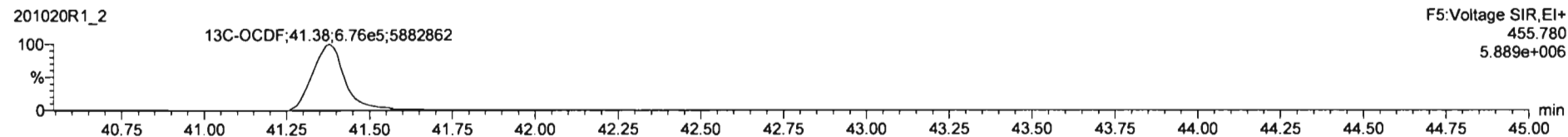
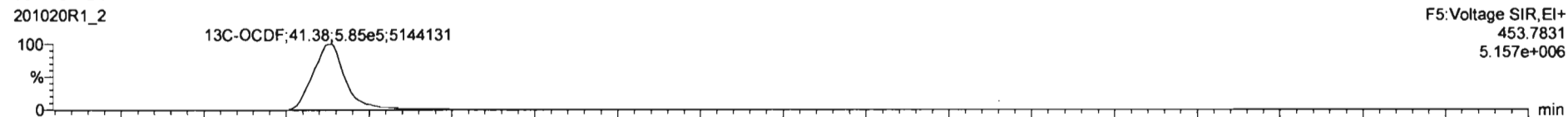
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_2, Date: 20-Oct-2020, Time: 10:04:05, ID: ST201020R1\_2 1613 CS1 20F1103, Description: 1613 CS1 20F1103

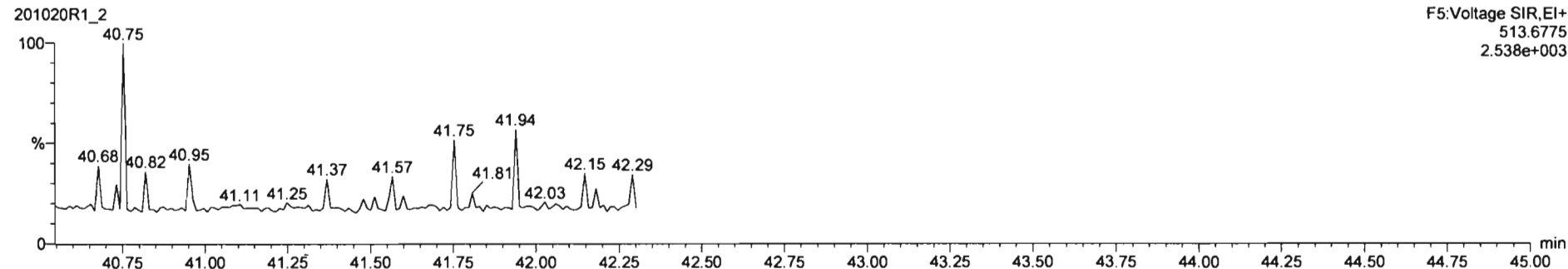
**OCDF**

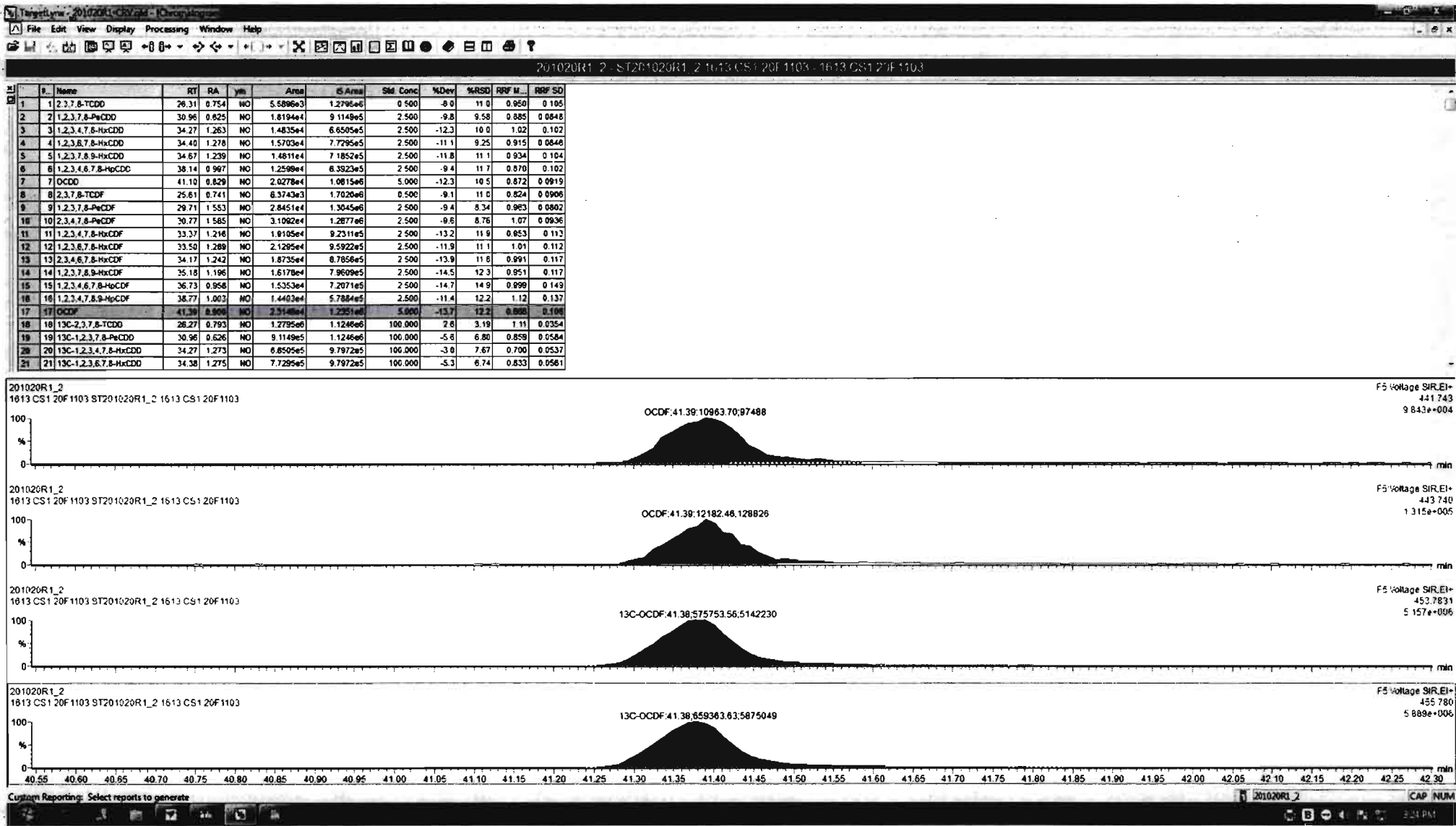


**<sup>13</sup>C-OCDF**



**DPE5**



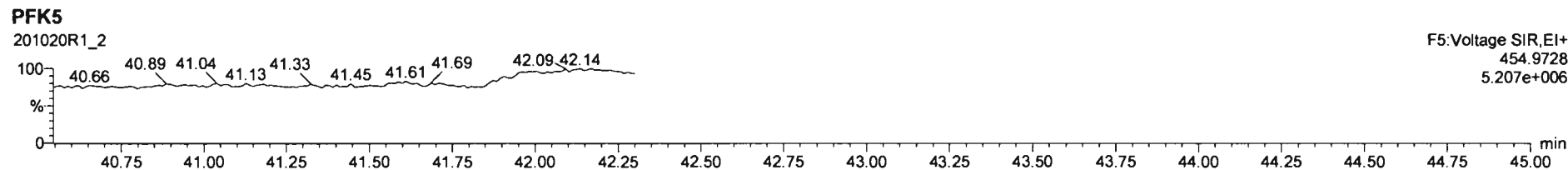
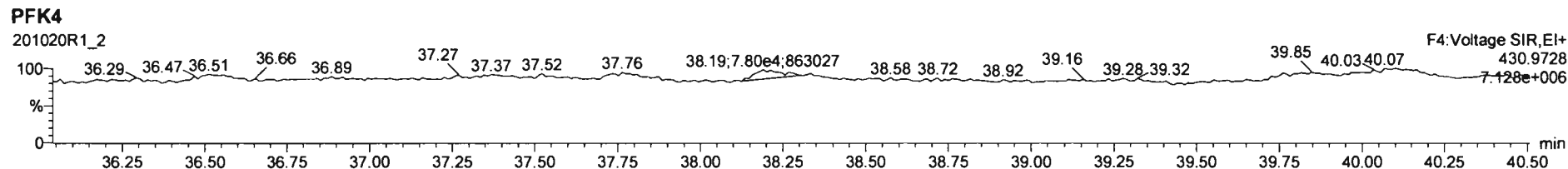
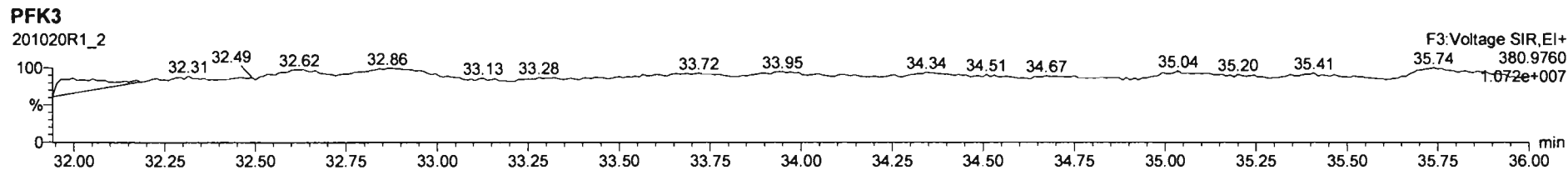
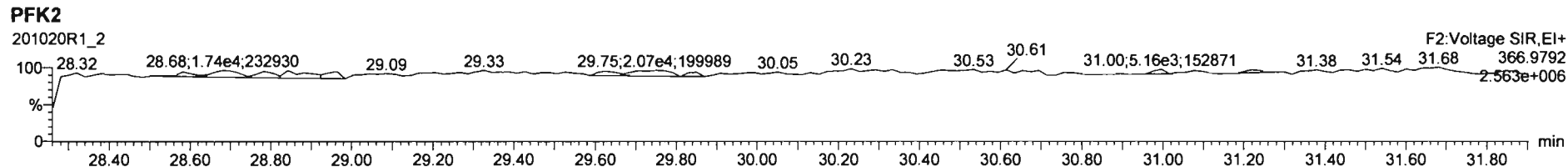
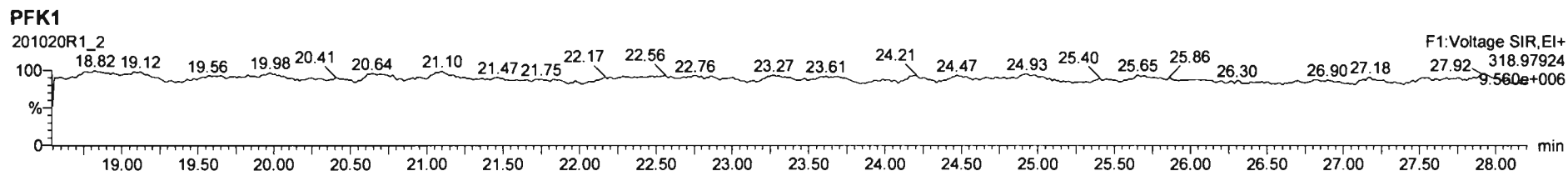


Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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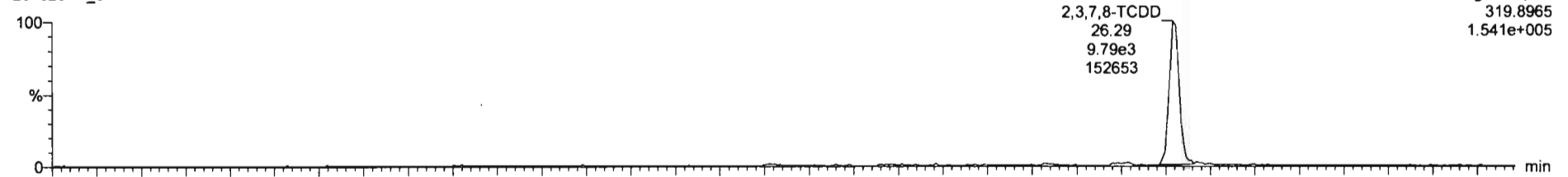
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

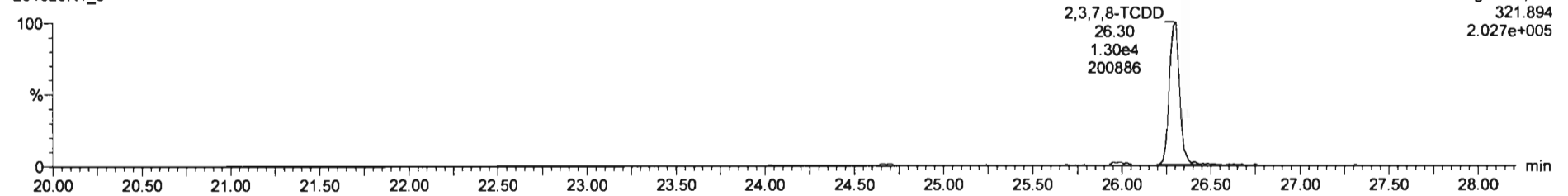
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**2,3,7,8-TCDD**

201020R1\_3

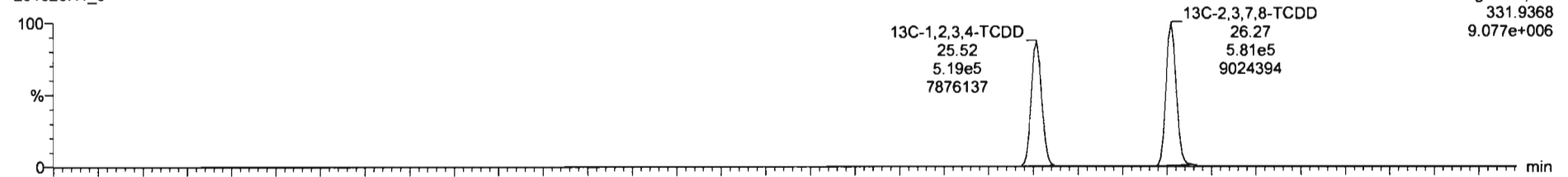


201020R1\_3

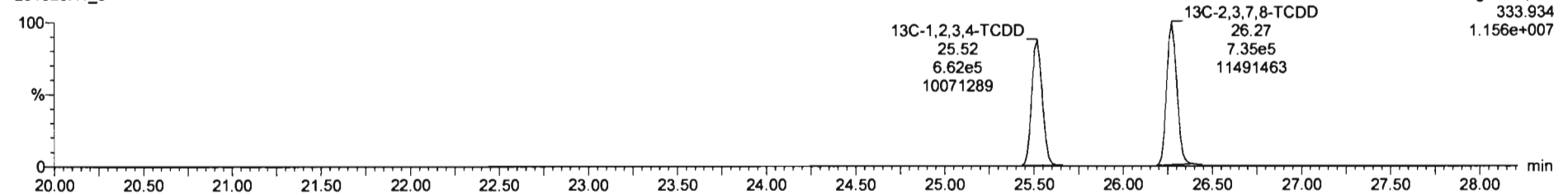


**13C-2,3,7,8-TCDD**

201020R1\_3



201020R1\_3





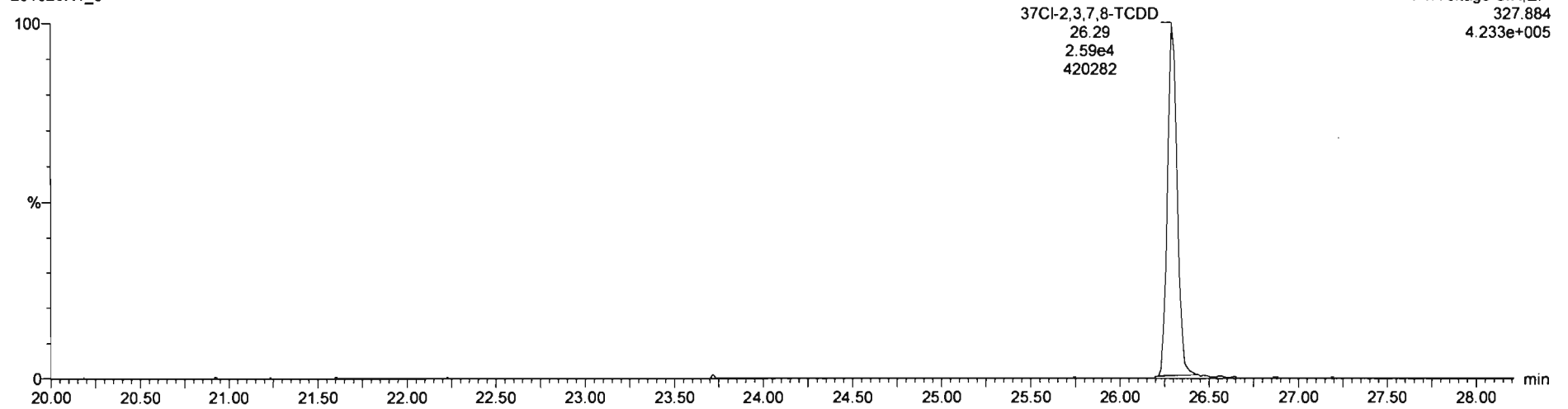
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_3, Date: 20-Oct-2020, Time: 10:48:17, ID: ST201020R1\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

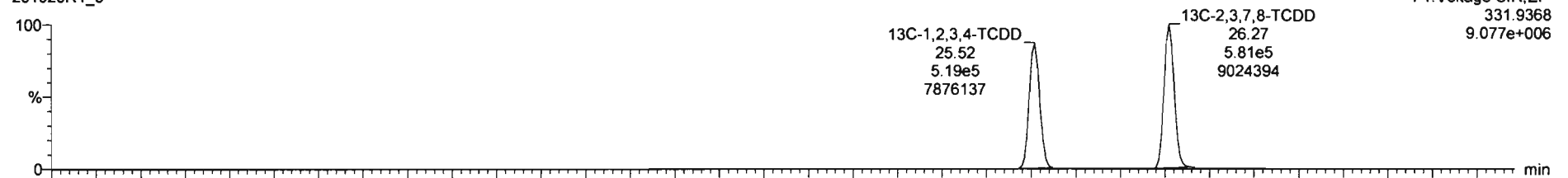
37Cl-2,3,7,8-TCDD

201020R1\_3

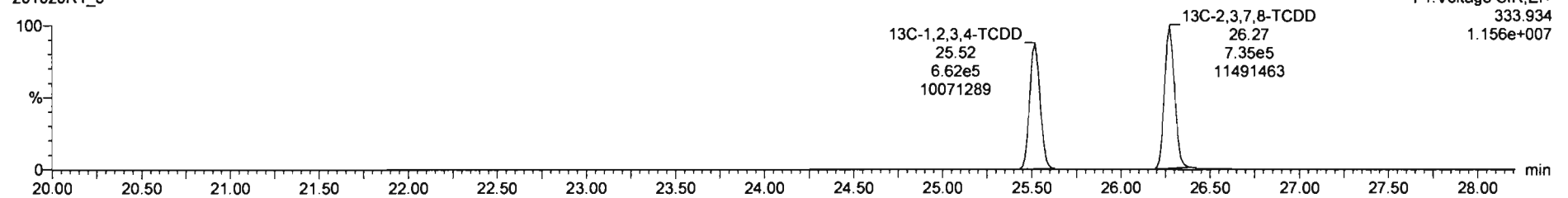


13C-1,2,3,4-TCDD

201020R1\_3



201020R1\_3



Dataset: Untitled

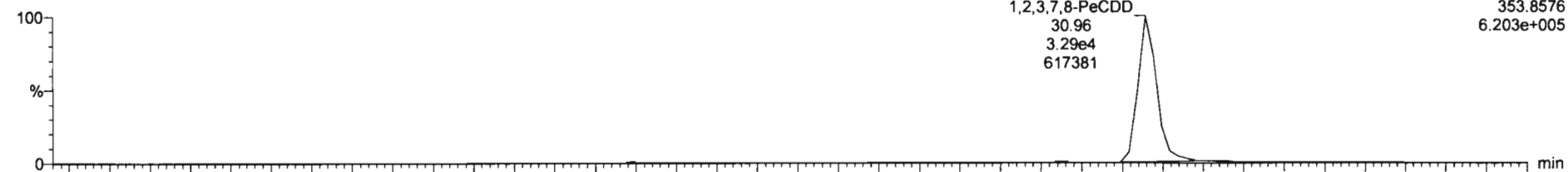
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

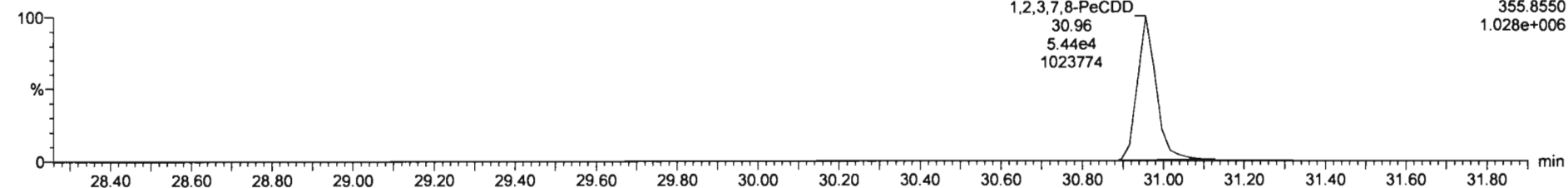
Name: 201020R1\_3, Date: 20-Oct-2020, Time: 10:48:17, ID: ST201020R1\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

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

201020R1\_3



201020R1\_3

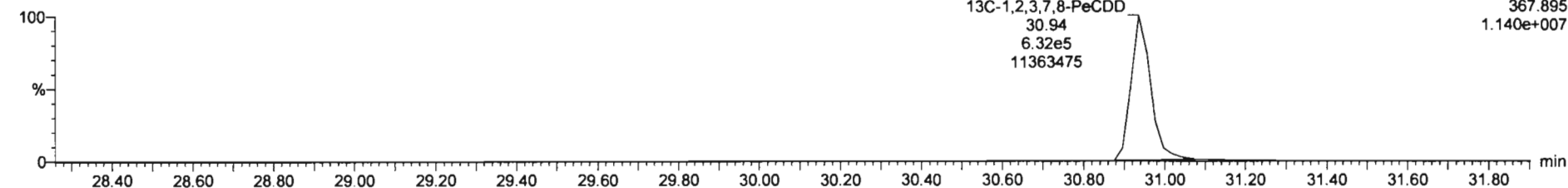


**13C-1,2,3,7,8-PeCDD**

201020R1\_3



201020R1\_3



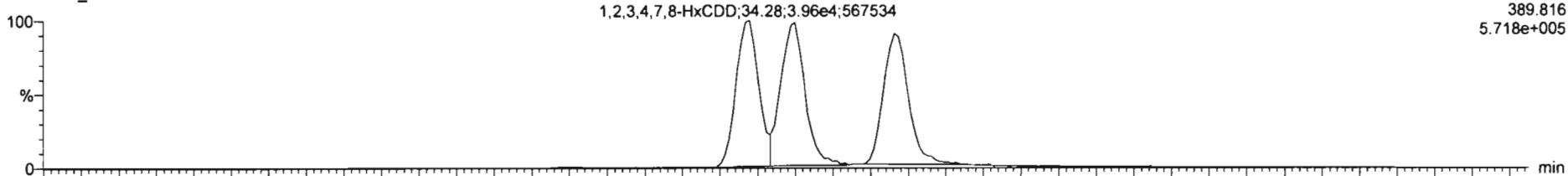
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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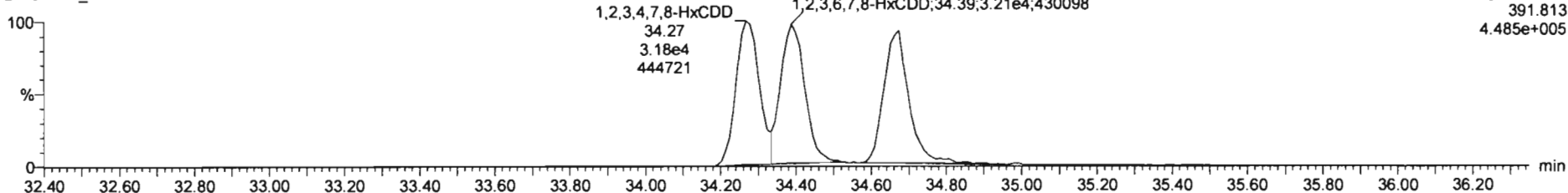
**1,2,3,4,7,8-HxCDD**

201020R1\_3



F3:Voltage SIR,EI+  
389.816  
5.718e+005

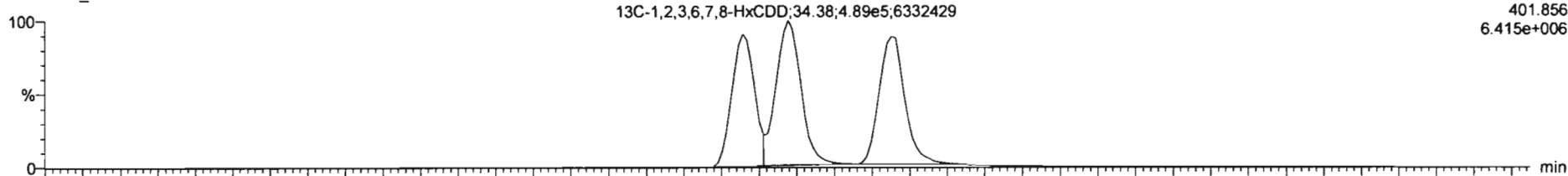
201020R1\_3



F3:Voltage SIR,EI+  
391.813  
4.485e+005

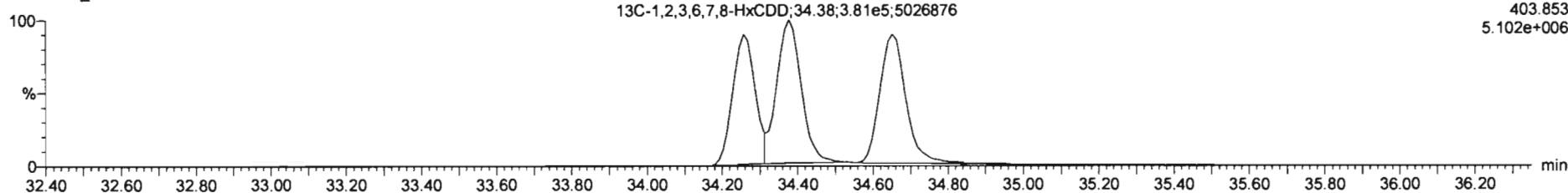
**13C-1,2,3,4,7,8-HxCDD**

201020R1\_3



F3:Voltage SIR,EI+  
401.856  
6.415e+006

201020R1\_3



F3:Voltage SIR,EI+  
403.853  
5.102e+006

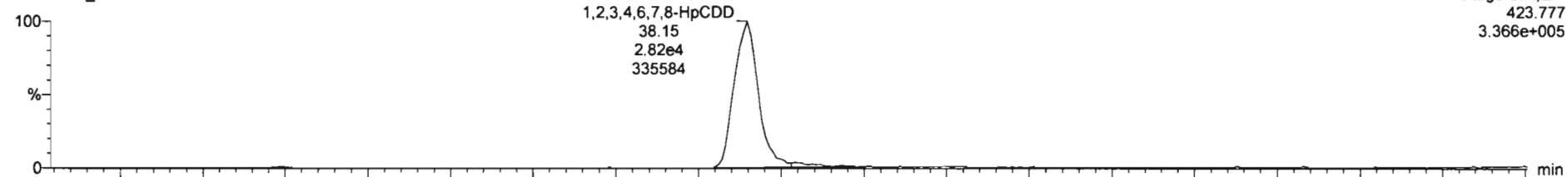
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

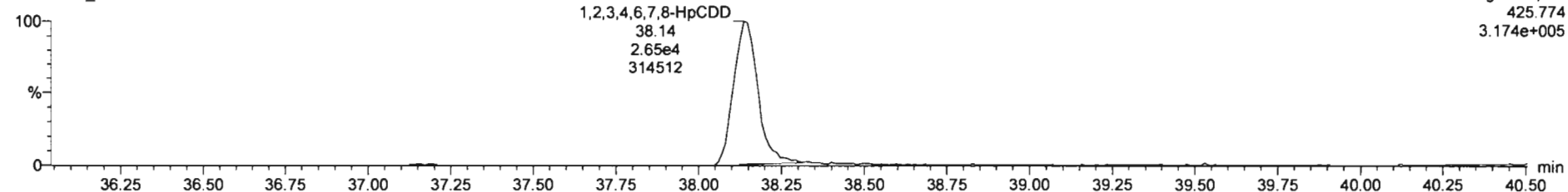
Name: 201020R1\_3, Date: 20-Oct-2020, Time: 10:48:17, ID: ST201020R1\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

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

201020R1\_3

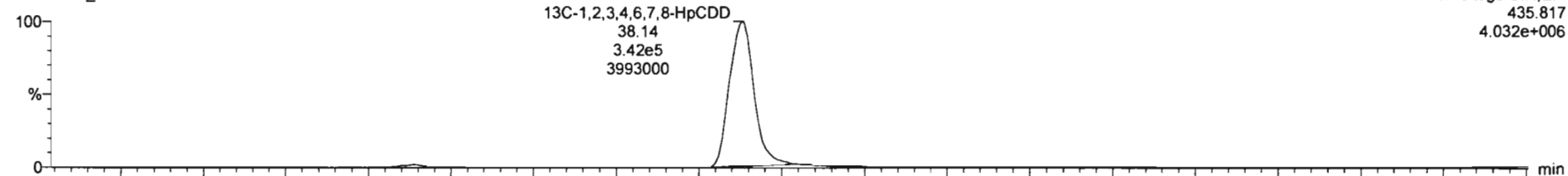


201020R1\_3

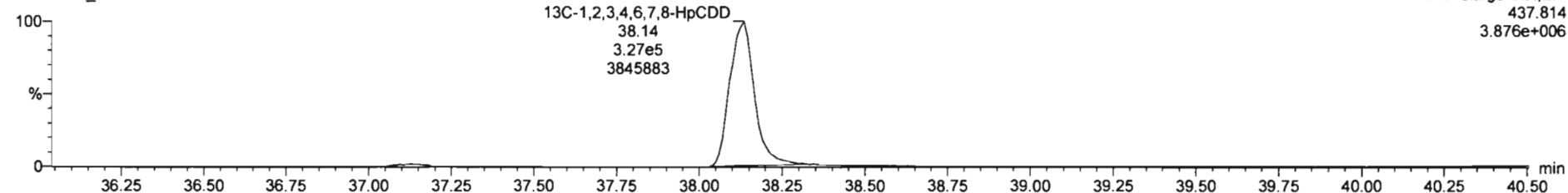


**13C-1,2,3,4,6,7,8-HpCDD**

201020R1\_3



201020R1\_3



Dataset: Untitled

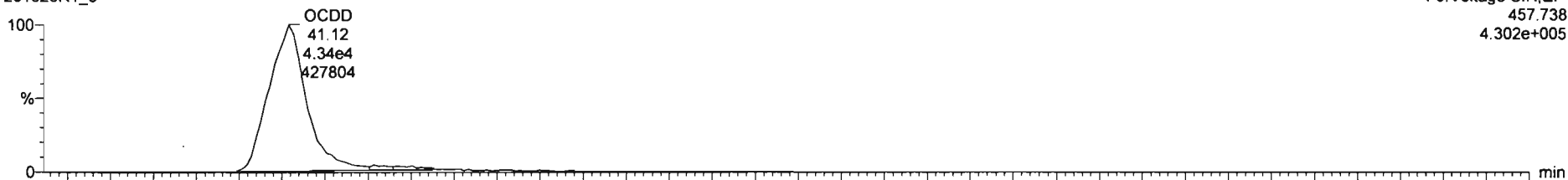
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_3, Date: 20-Oct-2020, Time: 10:48:17, ID: ST201020R1\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

**OCDD**

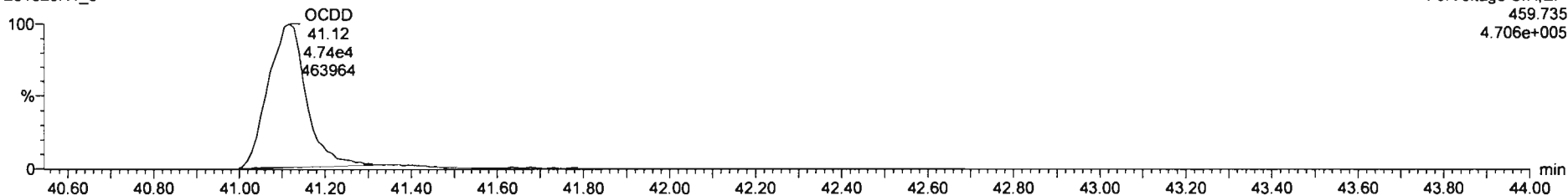
201020R1\_3

F5:Voltage SIR, EI+  
457.738  
4.302e+005



201020R1\_3

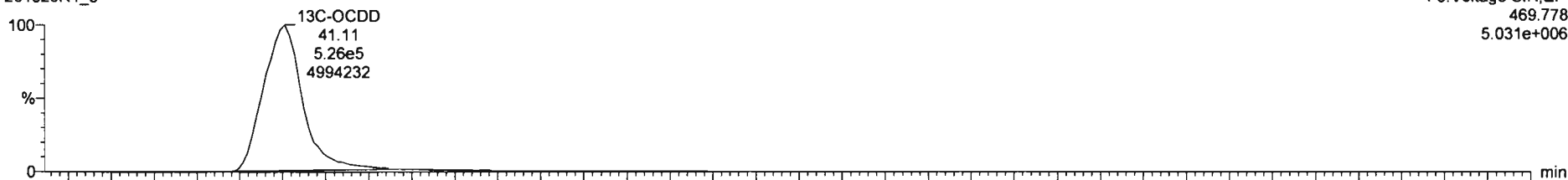
F5:Voltage SIR, EI+  
459.735  
4.706e+005



**13C-OCDD**

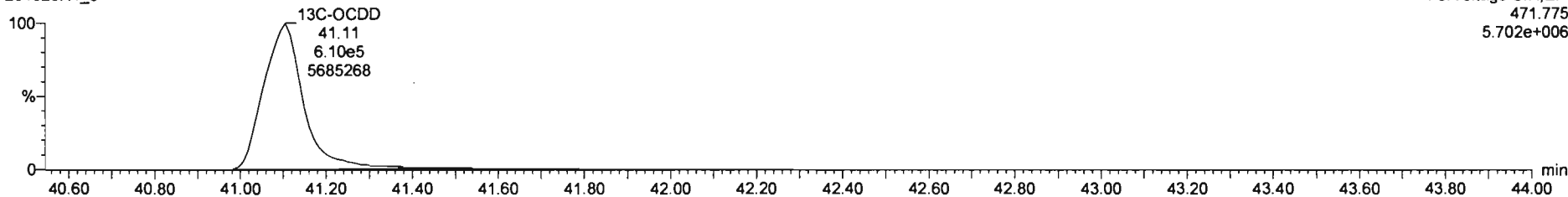
201020R1\_3

F5:Voltage SIR, EI+  
469.778  
5.031e+006

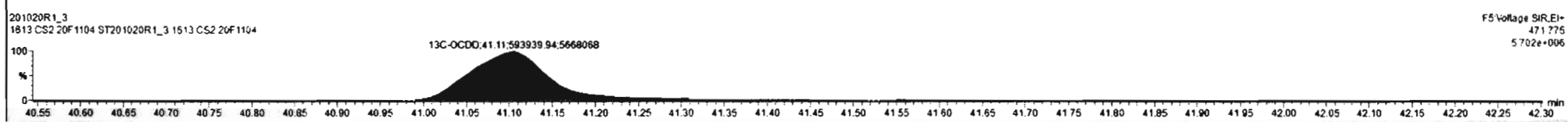
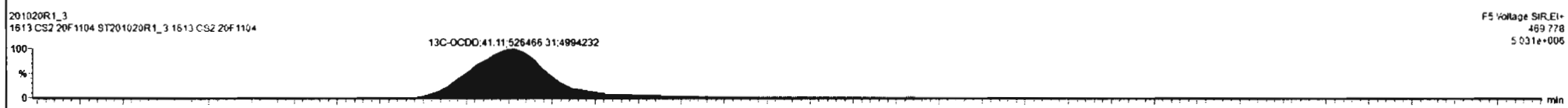
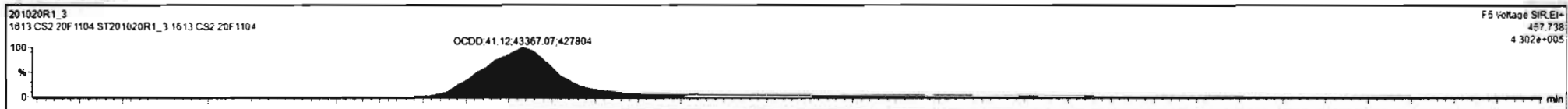


201020R1\_3

F5:Voltage SIR, EI+  
471.775  
5.702e+006



#	Name	RT	RA	Yth	Area	S Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.754	NO	2.2771e4	1.3154e6	2.000	-8.9	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.606	NO	8.7271e4	1.0279e6	10.000	-4.1	9.50	0.885	0.0648
3	1,2,3,4,7,8-HxCDD	34.28	1.245	NO	7.1328e4	7.0709e5	10.000	-0.9	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.40	1.293	NO	7.3710e4	8.6983e5	10.000	-7.3	9.25	0.915	0.0648
5	1,2,3,7,8,9-HxCDD	34.66	1.247	NO	7.9437e4	8.0052e5	10.000	-5.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.15	1.064	NO	5.4834e4	6.6949e5	10.000	-6.2	11.7	0.870	0.102
7	OCDD	41.12	0.814	NO	0.8812e4	1.1204e6	20.000	-7.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.769	NO	2.7891e4	1.8231e6	2.000	-7.2	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.596	NO	1.3197e5	1.4163e6	10.000	-3.2	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.75	1.621	NO	1.5088e5	1.4537e6	10.000	-2.9	6.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.227	NO	9.2409e4	9.7566e5	10.000	-0.7	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.228	NO	1.0008e5	1.0311e6	10.000	-3.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.17	1.274	NO	9.1698e4	9.5781e5	10.000	-3.4	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.17	1.191	NO	7.4121e4	8.2291e5	10.000	-5.2	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.994	NO	7.2756e4	7.9997e5	10.000	-8.9	14.9	0.999	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.022	NO	5.9875e4	5.7733e5	10.000	-7.7	12.2	1.12	0.137
17	OCDF	41.40	0.875	NO	1.0781e5	1.2683e6	20.000	-3.6	12.2	0.866	0.106
18	13C-2,3,7,8-TCDD	26.27	0.790	NO	1.3154e6	1.1805e6	100.000	0.5	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.627	NO	1.0279e6	1.1805e6	100.000	1.4	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.28	1.291	NO	7.0709e5	1.0495e6	100.000	-3.7	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.266	NO	8.6983e5	1.0495e6	100.000	-0.5	8.74	0.833	0.0561



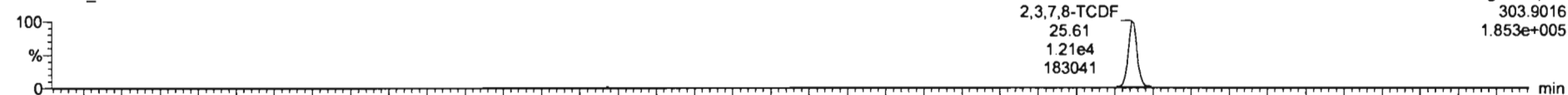
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

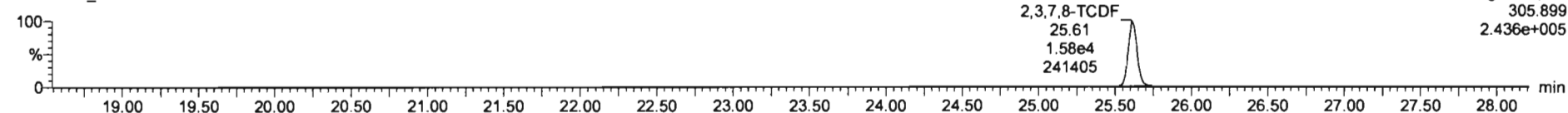
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**2,3,7,8-TCDF**

201020R1\_3

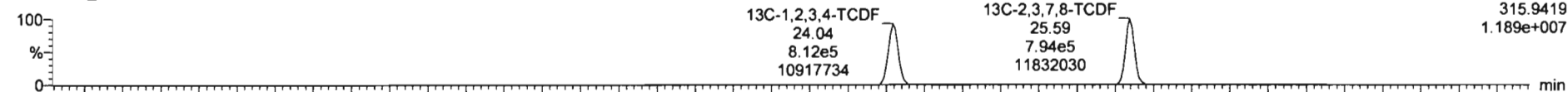


201020R1\_3

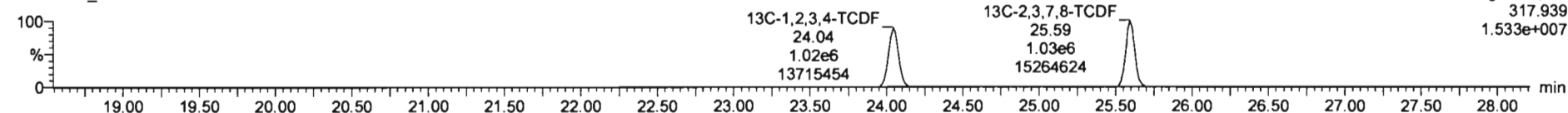


**13C-2,3,7,8-TCDF**

201020R1\_3

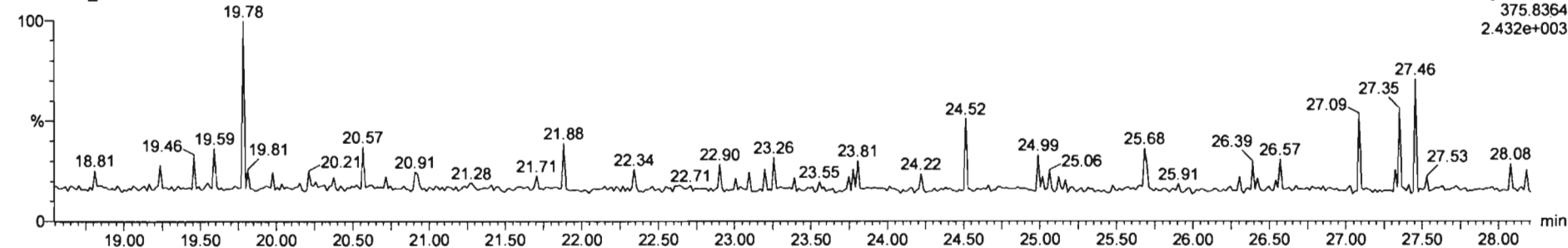


201020R1\_3



**DPE1**

201020R1\_3



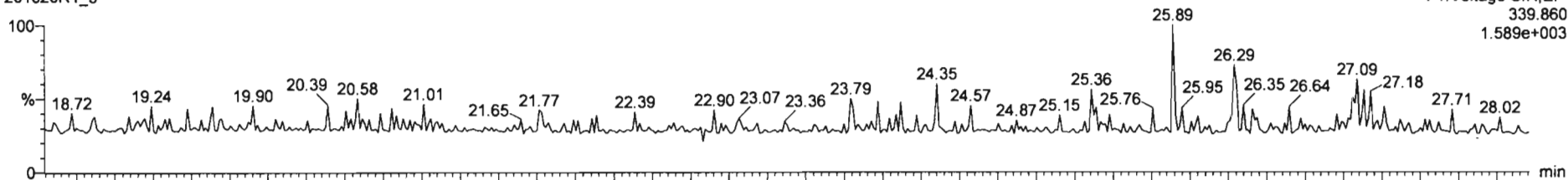
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

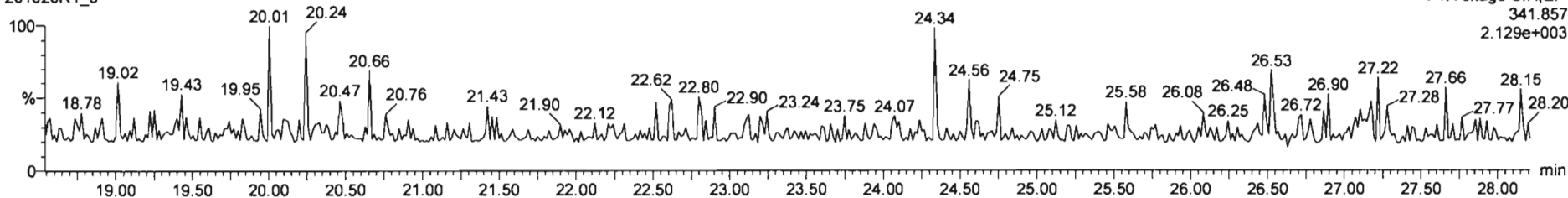
Name: 201020R1\_3, Date: 20-Oct-2020, Time: 10:48:17, ID: ST201020R1\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

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201020R1\_3

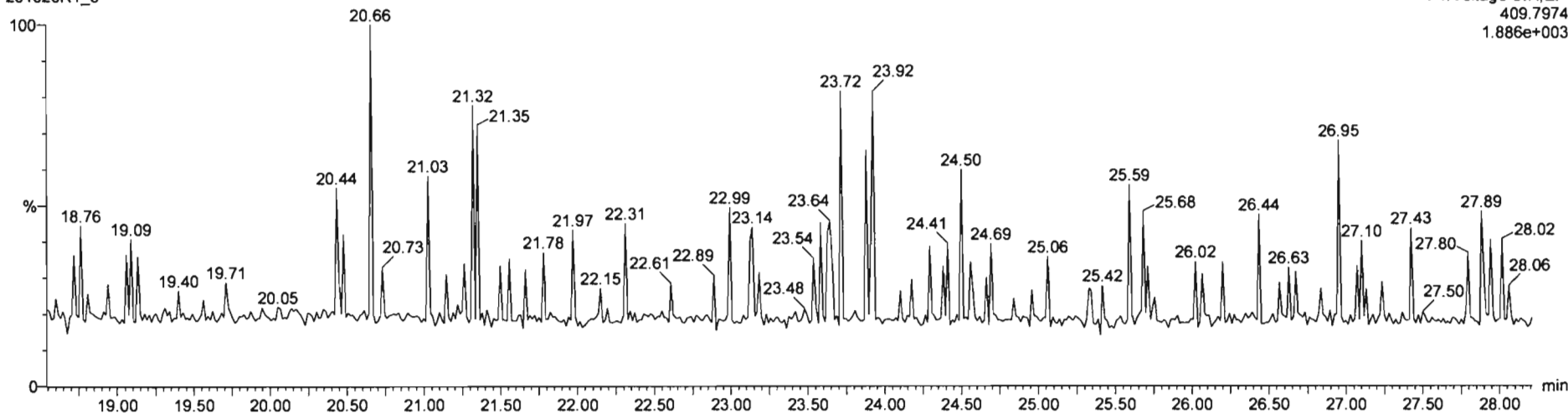


201020R1\_3



DPE6

201020R1\_3





Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

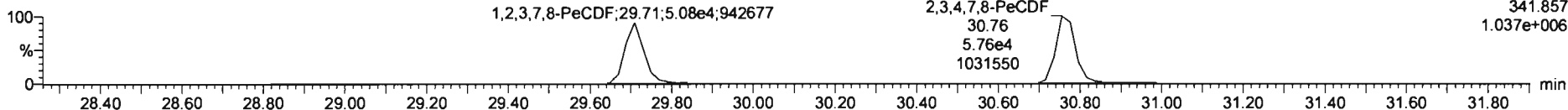
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**1,2,3,7,8-PeCDF**

201020R1\_3

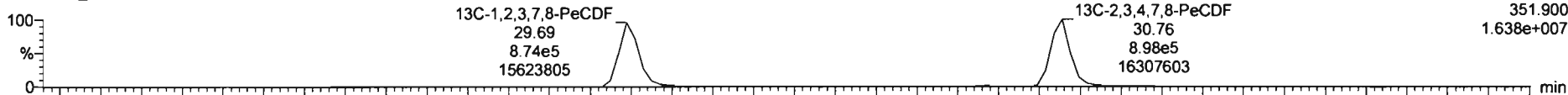


201020R1\_3

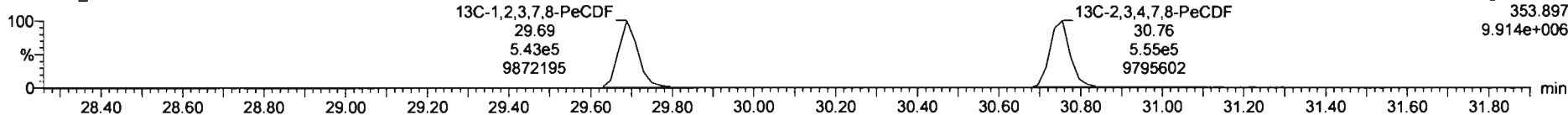


**13C-1,2,3,7,8-PeCDF**

201020R1\_3

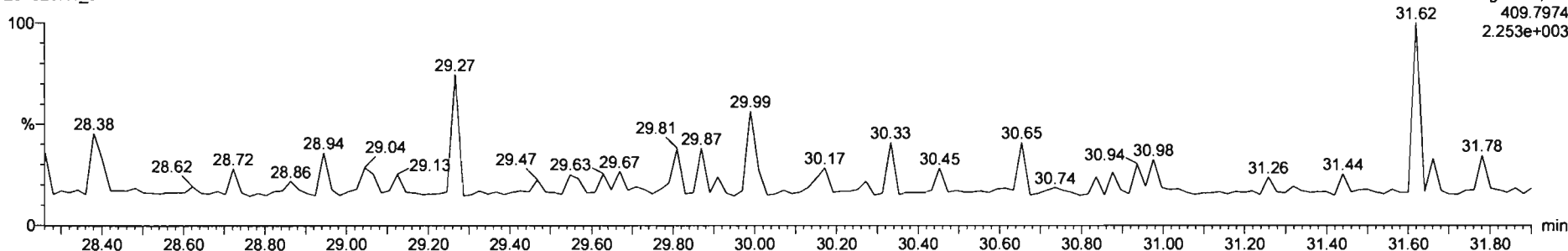


201020R1\_3



**DPE2**

201020R1\_3



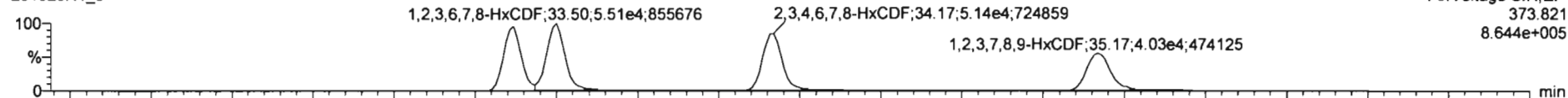
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

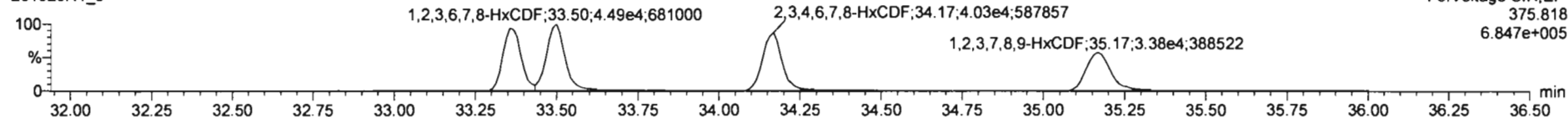
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**1,2,3,4,7,8-HxCDF**

201020R1\_3

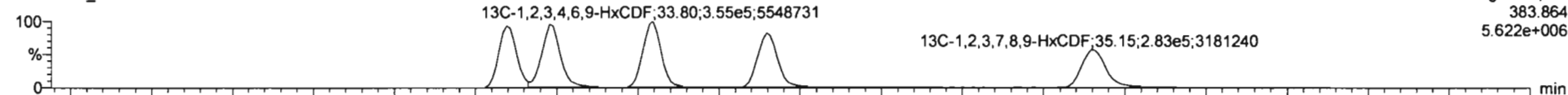


201020R1\_3

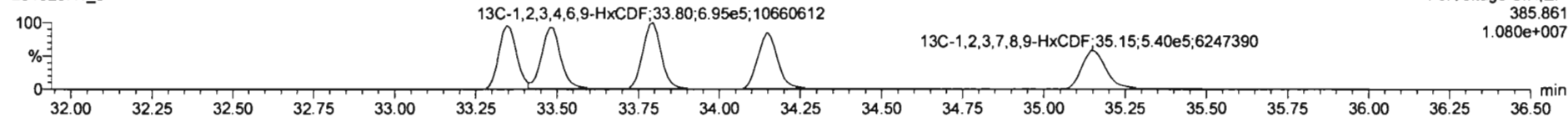


**13C-1,2,3,4,7,8-HxCDF**

201020R1\_3

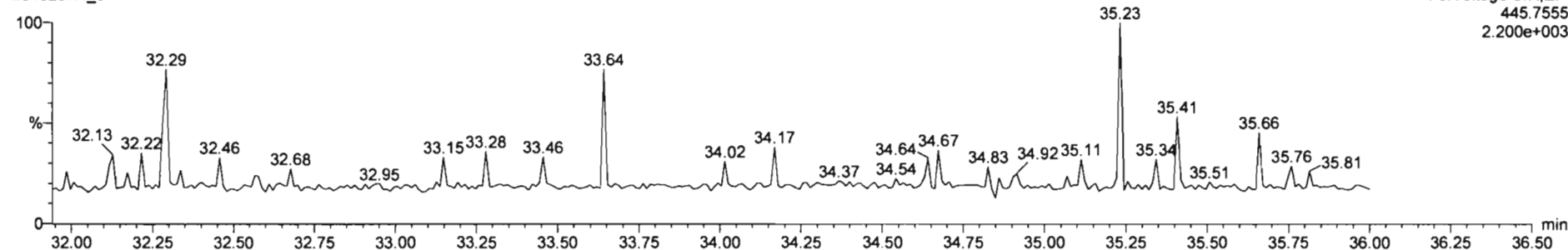


201020R1\_3



**DPE3**

201020R1\_3

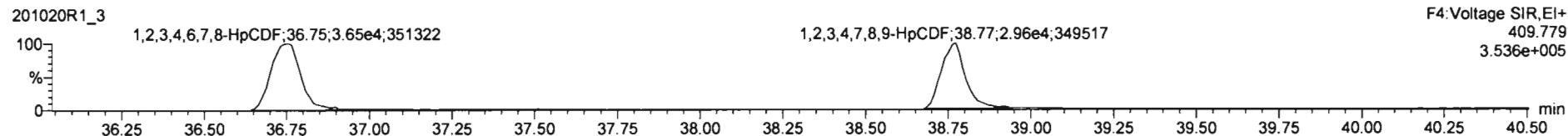
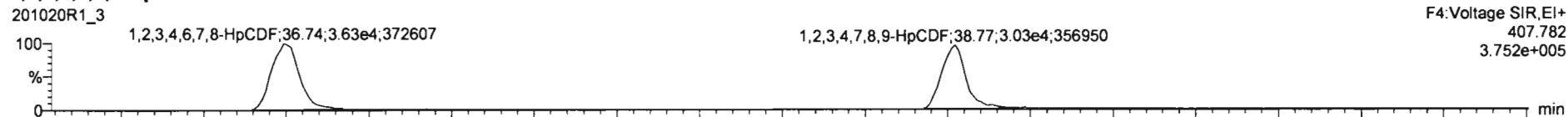


Dataset: Untitled

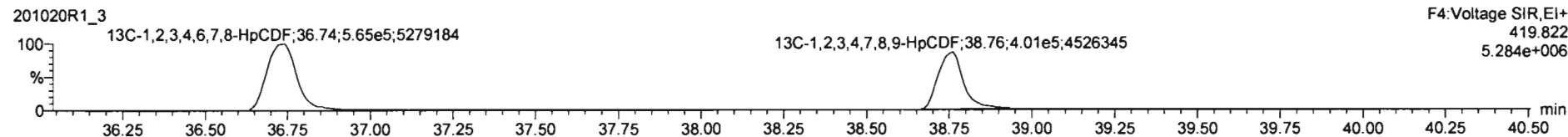
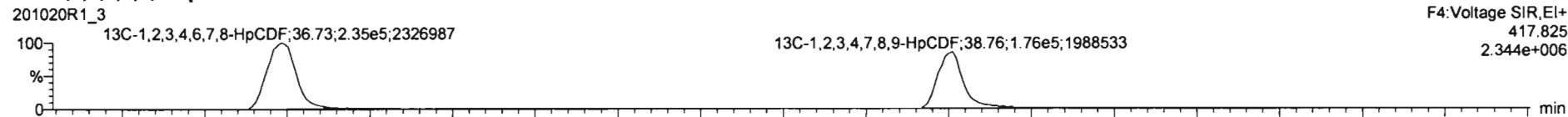
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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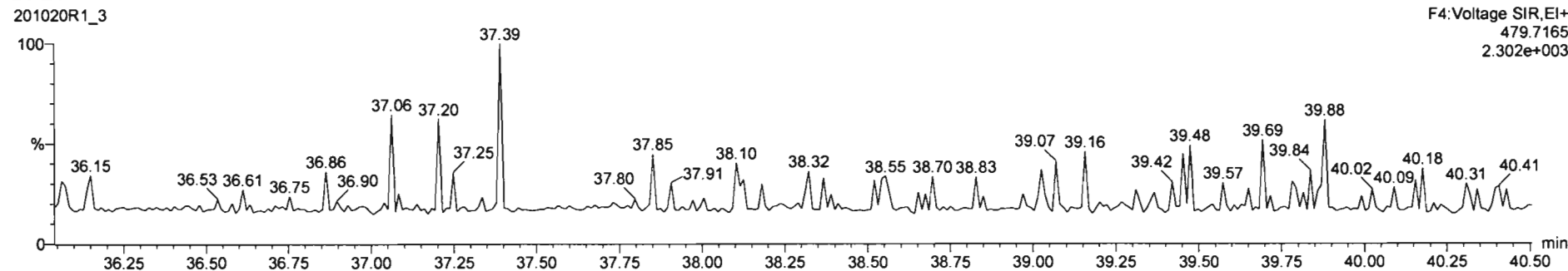
**1,2,3,4,6,7,8-HpCDF**



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



**DPE4**



Dataset: Untitled

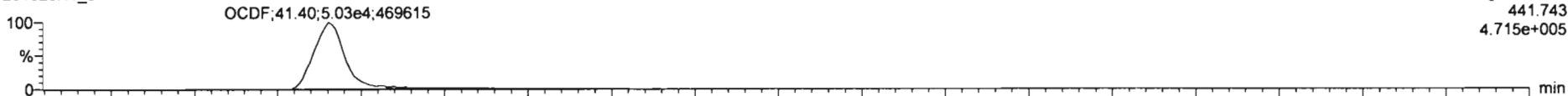
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

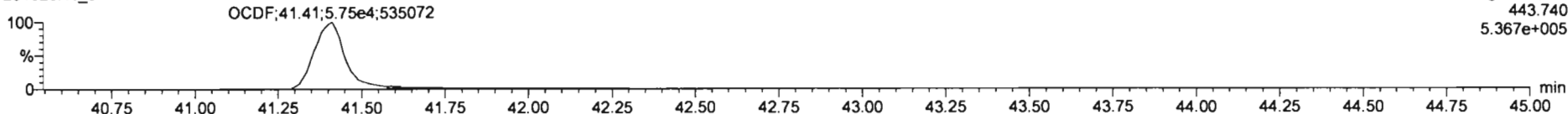
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**OCDF**

201020R1\_3

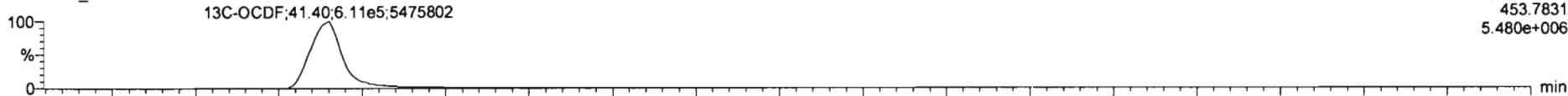


201020R1\_3

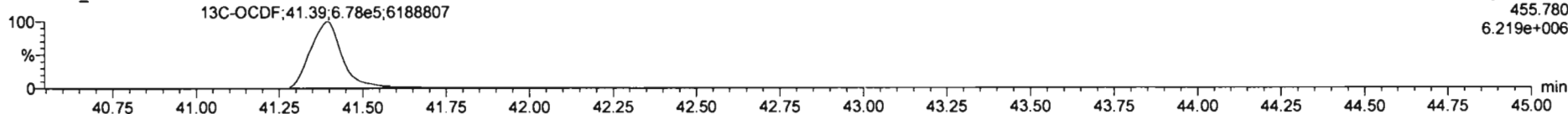


**13C-OCDF**

201020R1\_3

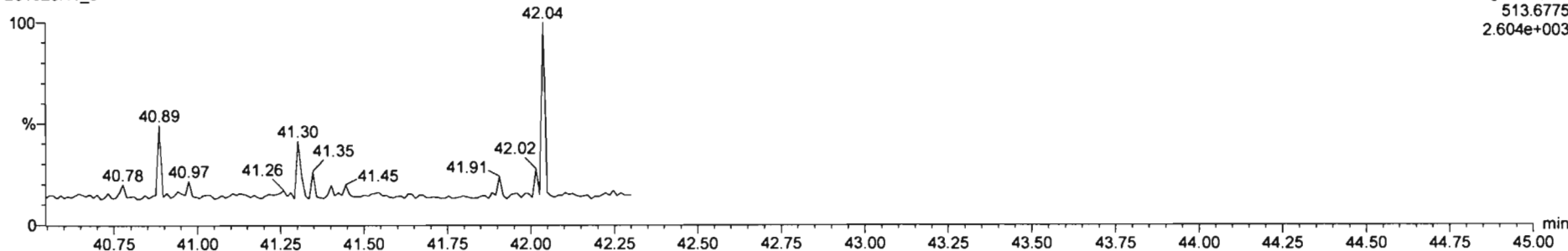


201020R1\_3



**DPE5**

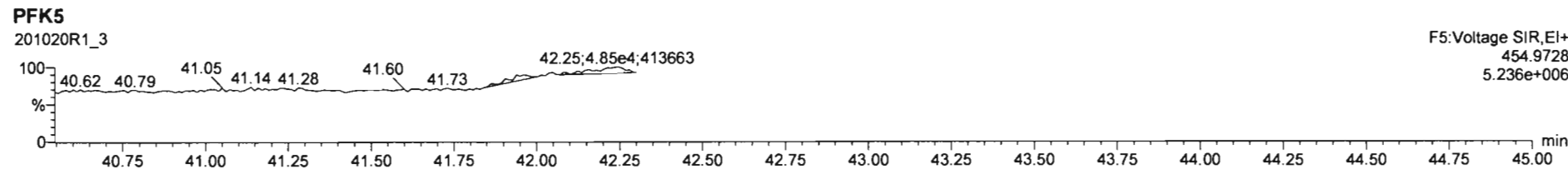
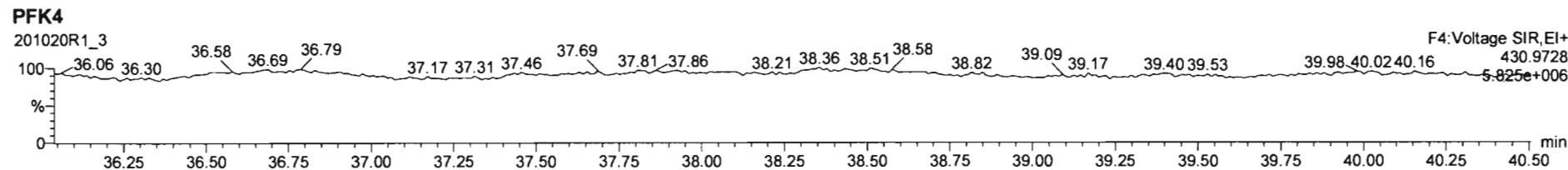
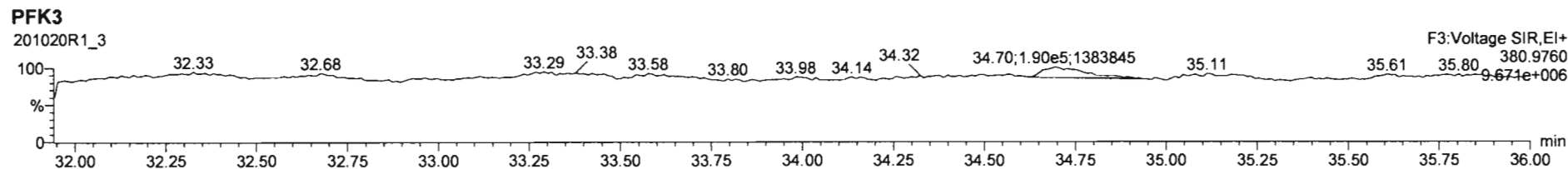
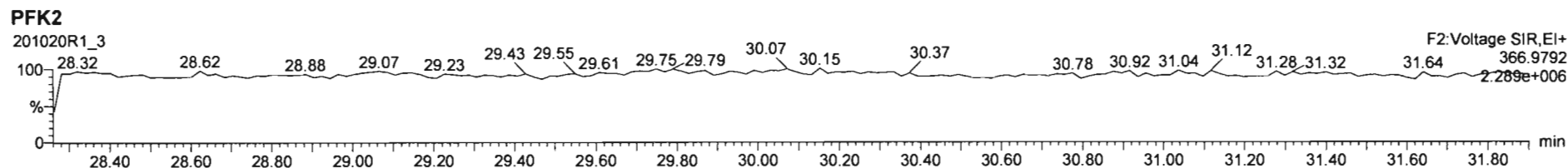
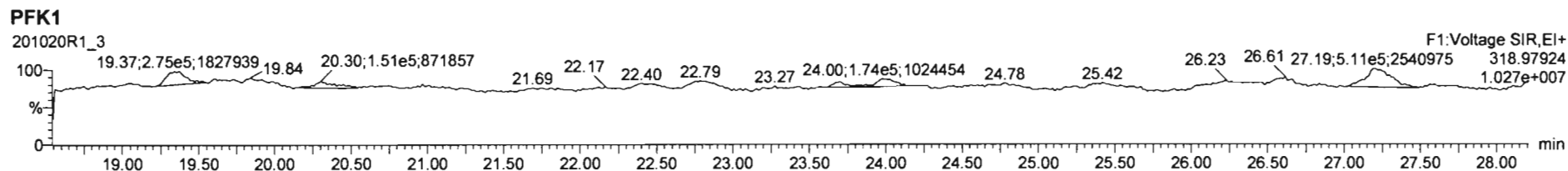
201020R1\_3



Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_3, Date: 20-Oct-2020, Time: 10:48:17, ID: ST201020R1\_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104



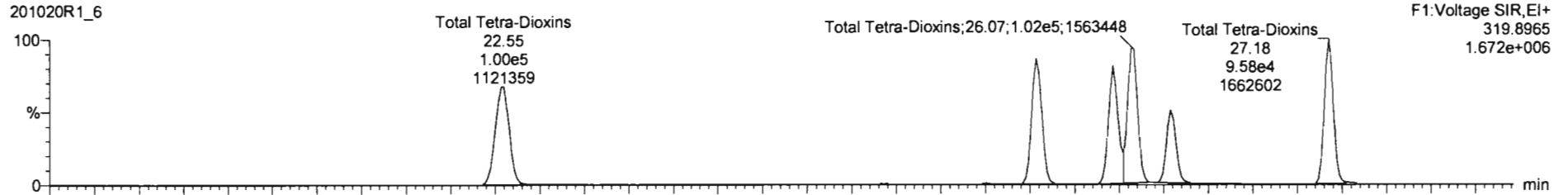
Dataset: Untitled

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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

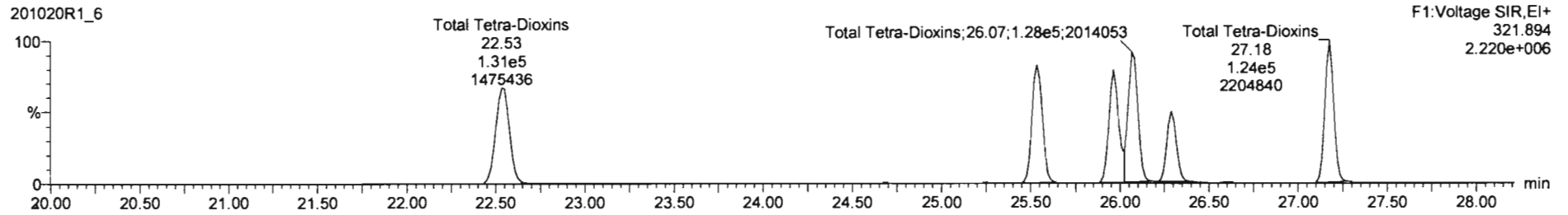
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**2,3,7,8-TCDD**

201020R1\_6

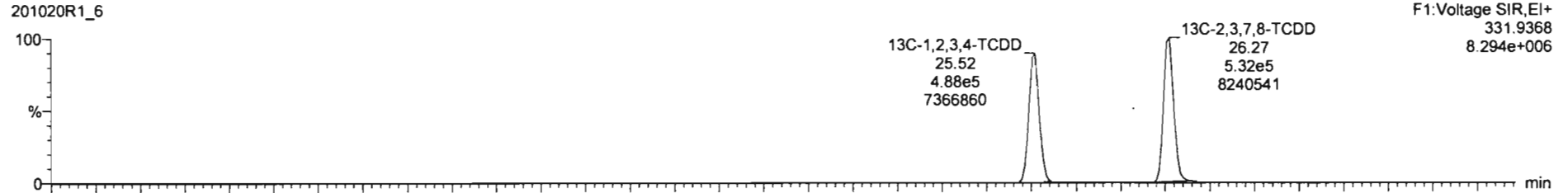


201020R1\_6

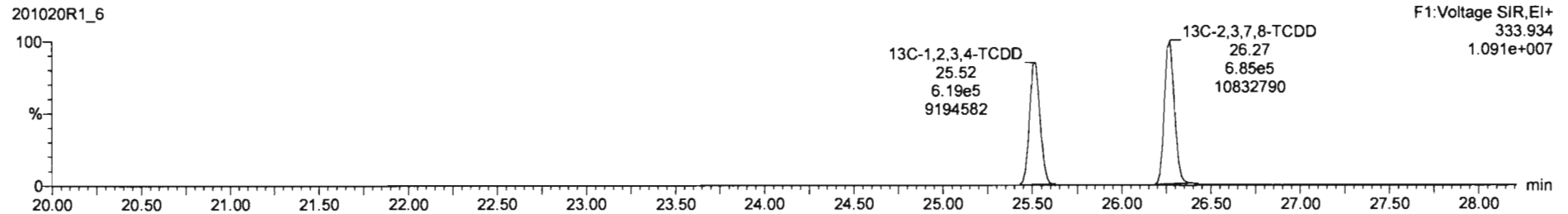


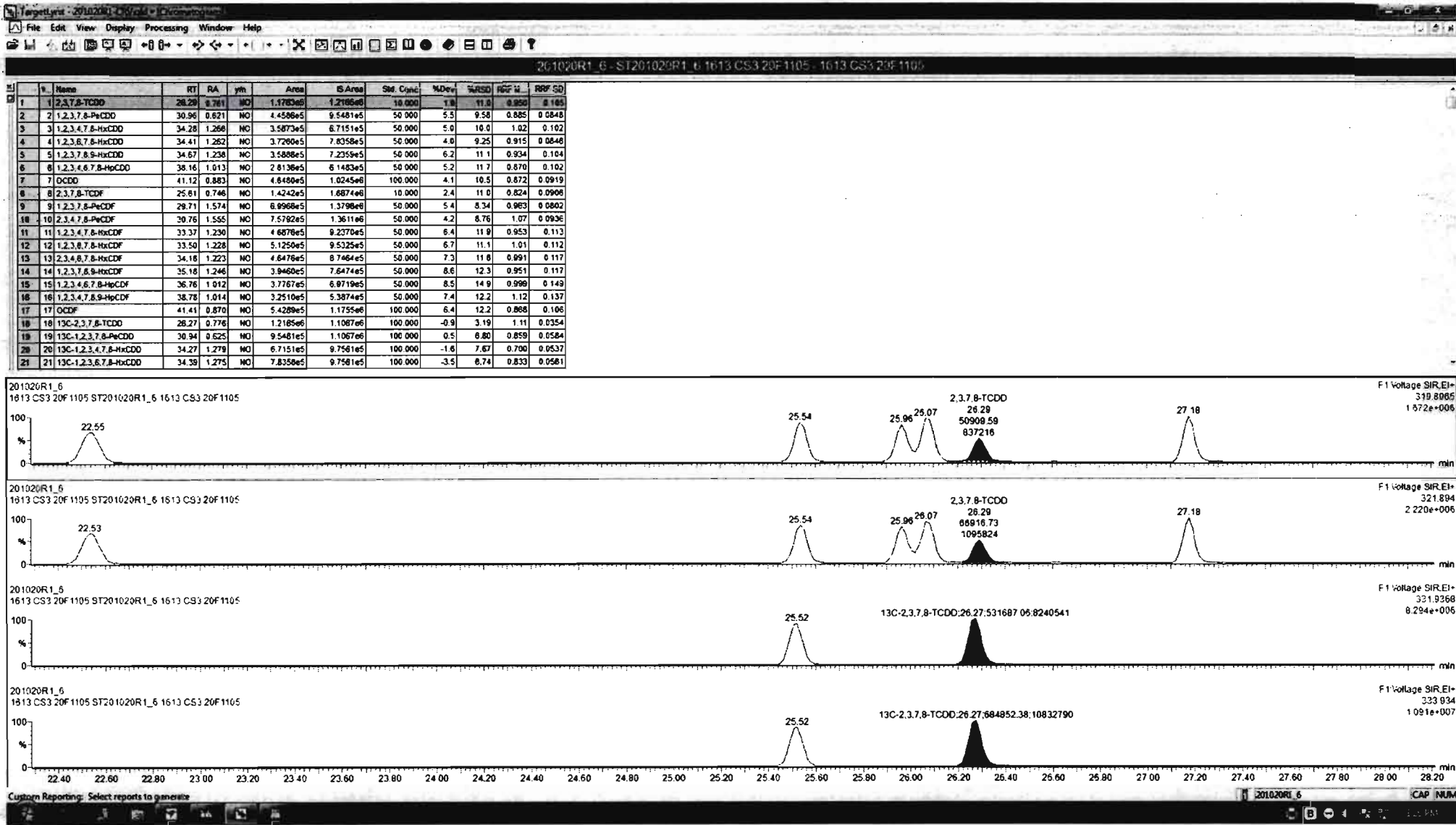
**13C-2,3,7,8-TCDD**

201020R1\_6



201020R1\_6





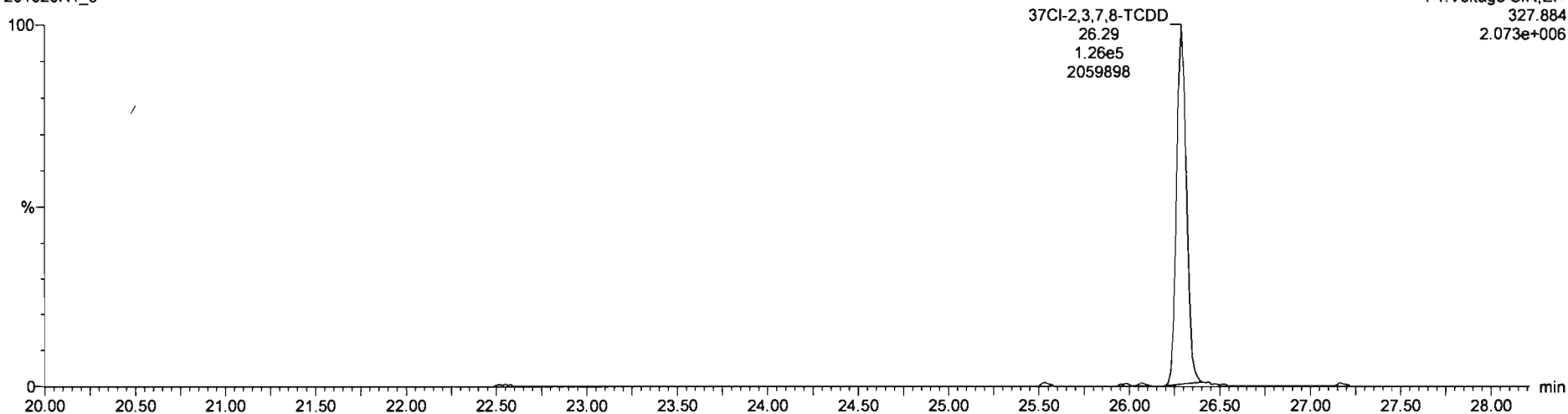
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
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**37Cl-2,3,7,8-TCDD**

201020R1\_6

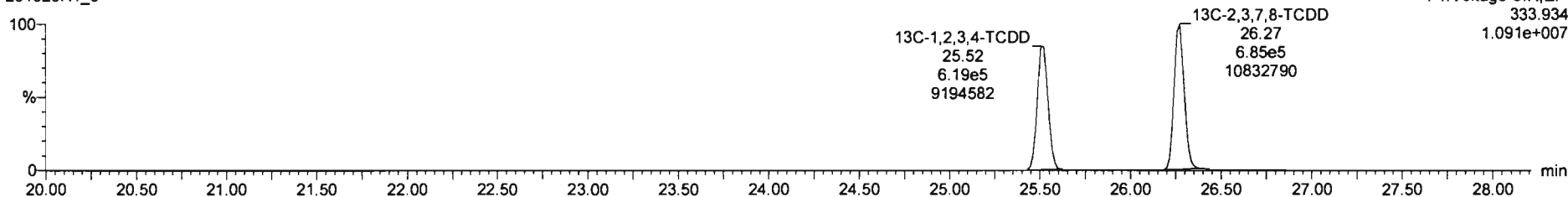


**13C-1,2,3,4-TCDD**

201020R1\_6



201020R1\_6





Dataset: Untitled

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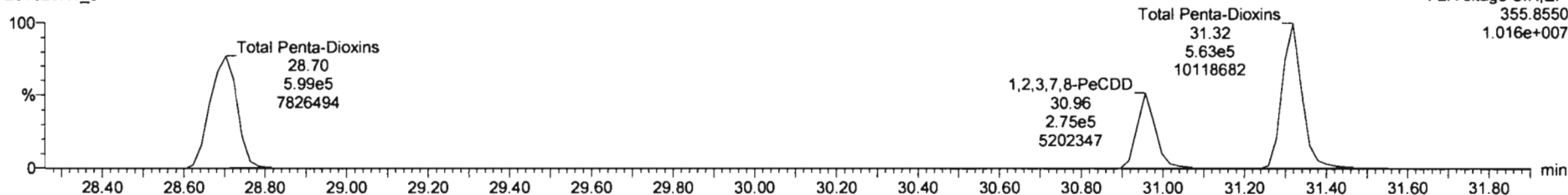
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**1,2,3,7,8-PeCDD**

201020R1\_6

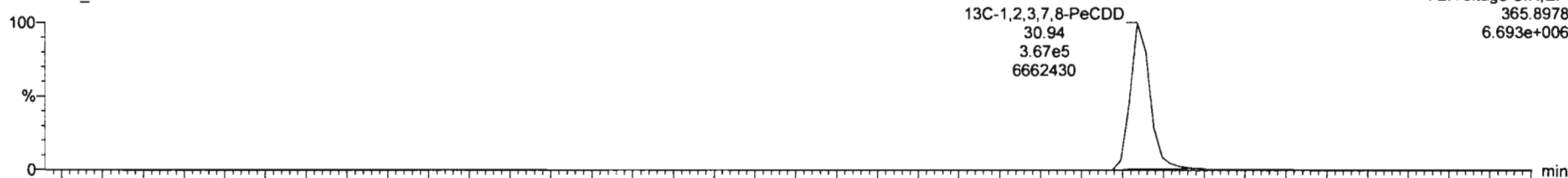


201020R1\_6

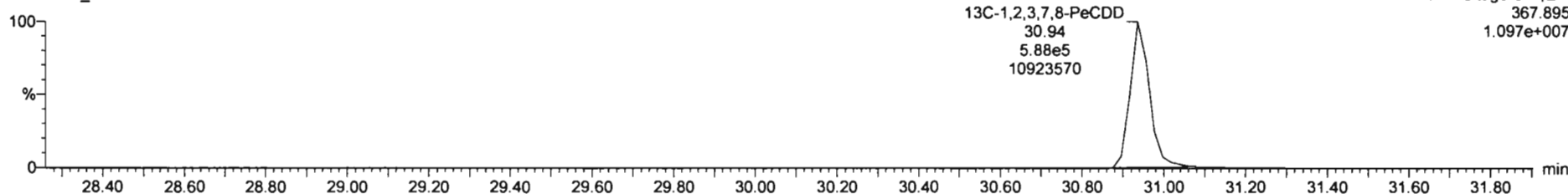


**13C-1,2,3,7,8-PeCDD**

201020R1\_6



201020R1\_6



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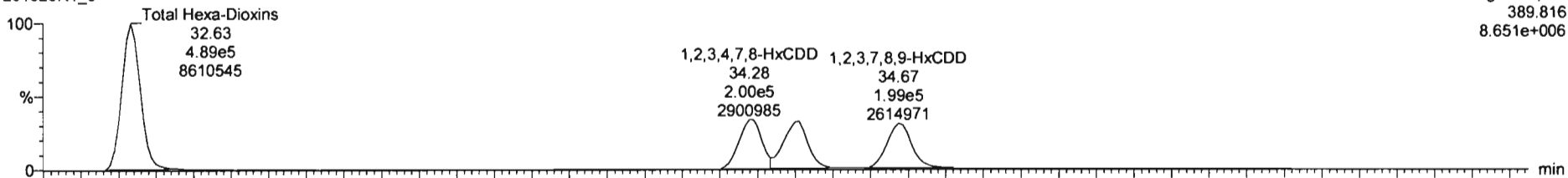
Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1\_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

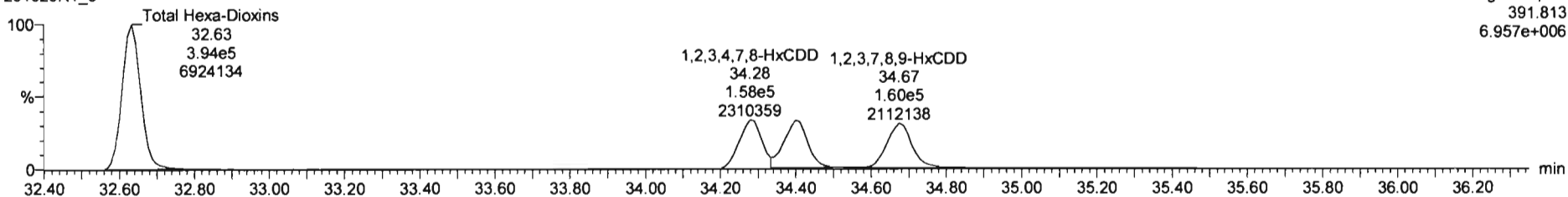
201020R1\_6

F3:Voltage SIR,EI+  
389.816  
8.651e+006



201020R1\_6

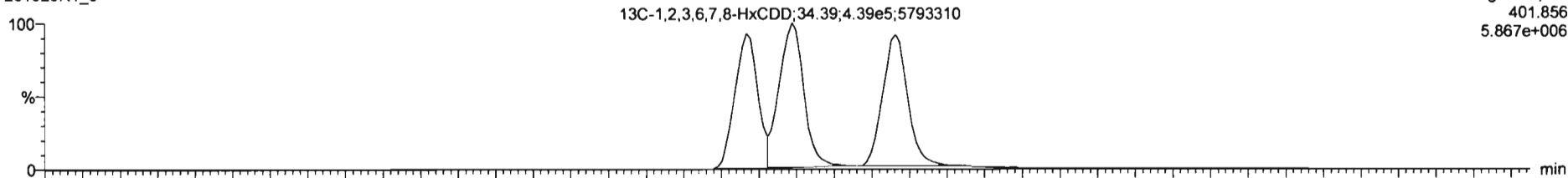
F3:Voltage SIR,EI+  
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6.957e+006



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

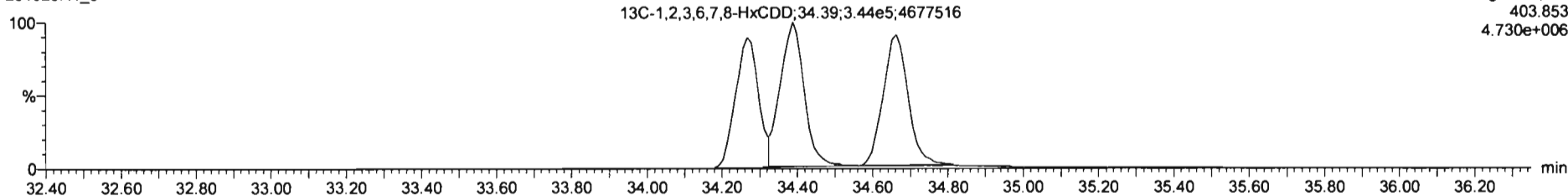
201020R1\_6

F3:Voltage SIR,EI+  
401.856  
5.867e+006



201020R1\_6

F3:Voltage SIR,EI+  
403.853  
4.730e+006



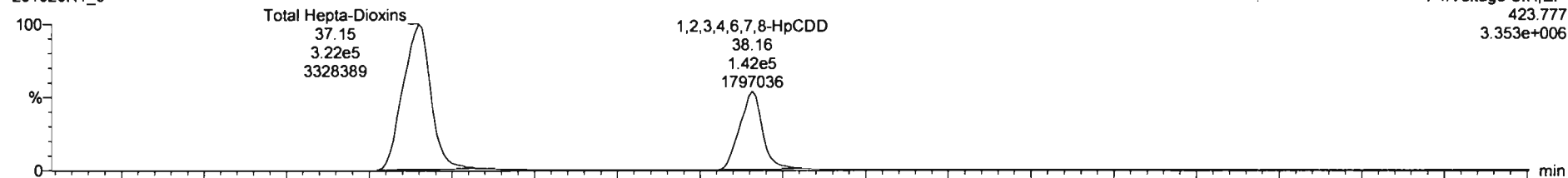
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1\_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

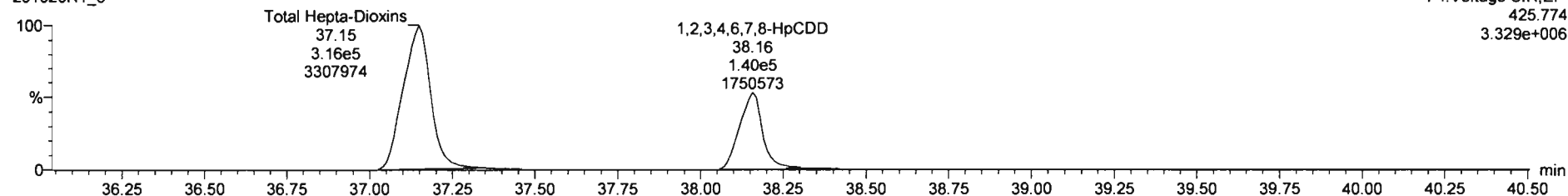
1,2,3,4,6,7,8-HpCDD

201020R1\_6



F4: Voltage SIR, EI+  
423.777  
3.353e+006

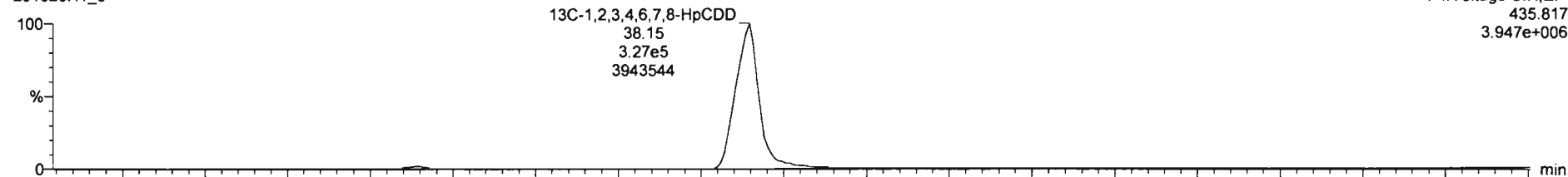
201020R1\_6



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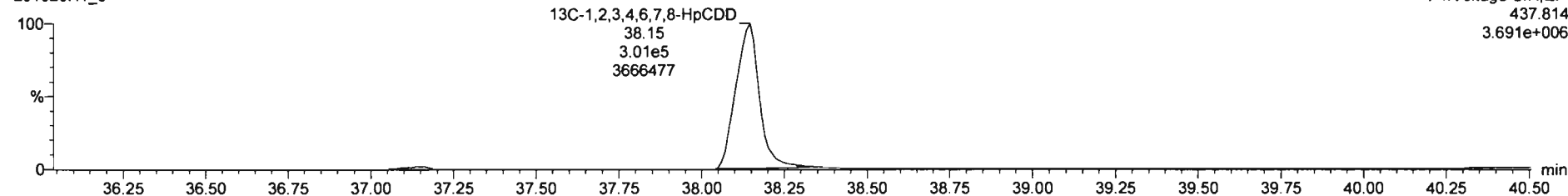
13C-1,2,3,4,6,7,8-HpCDD

201020R1\_6

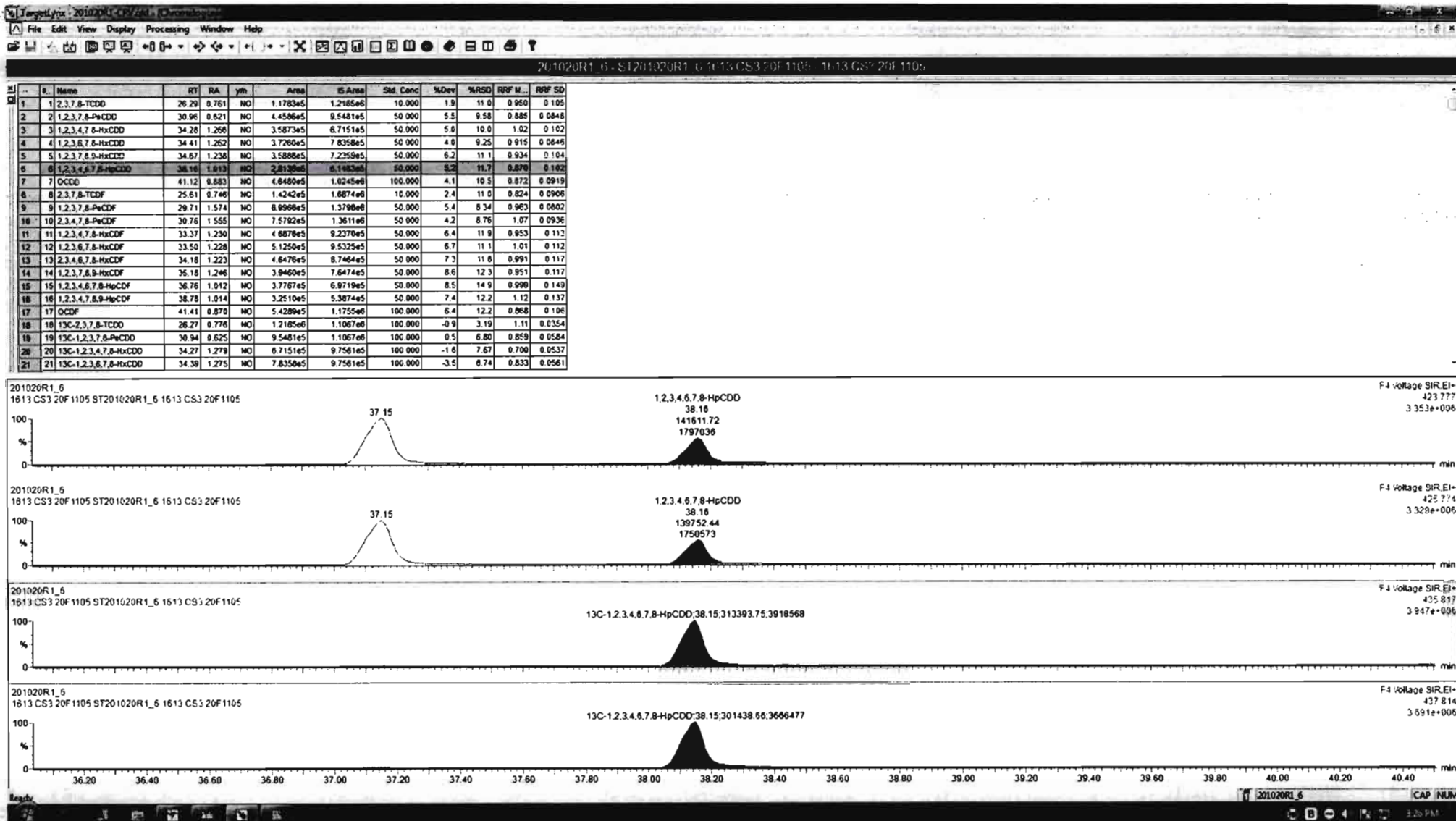


F4: Voltage SIR, EI+  
435.817  
3.947e+006

201020R1\_6



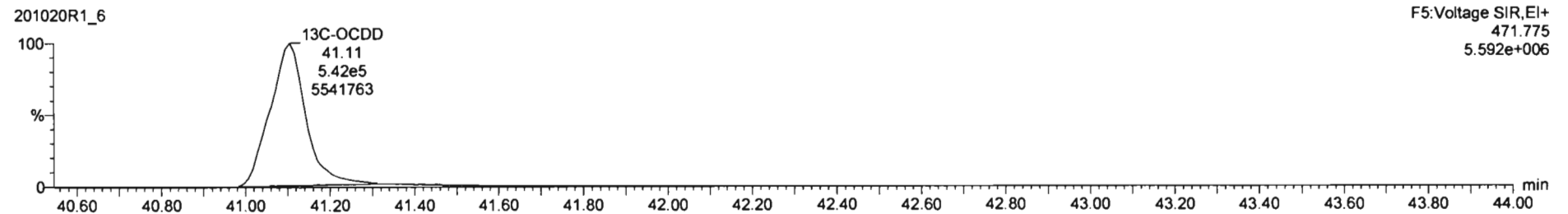
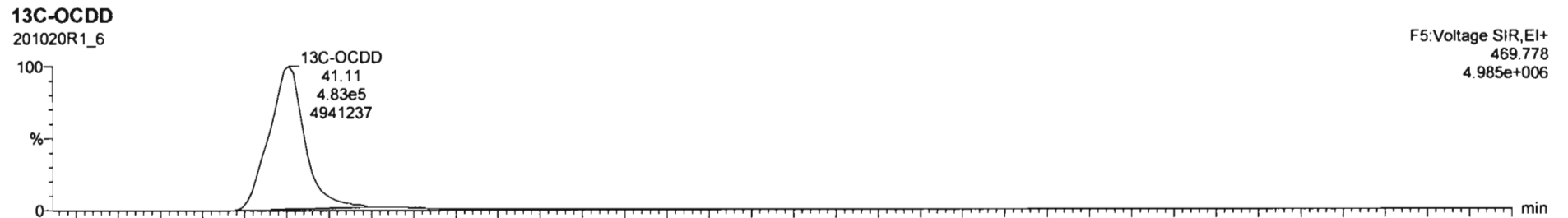
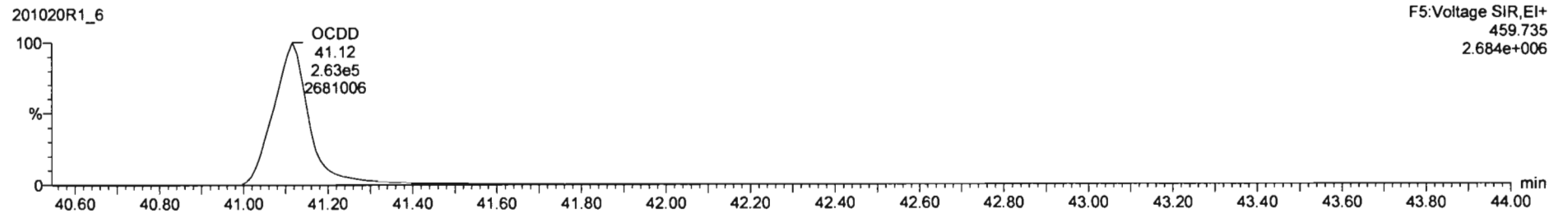
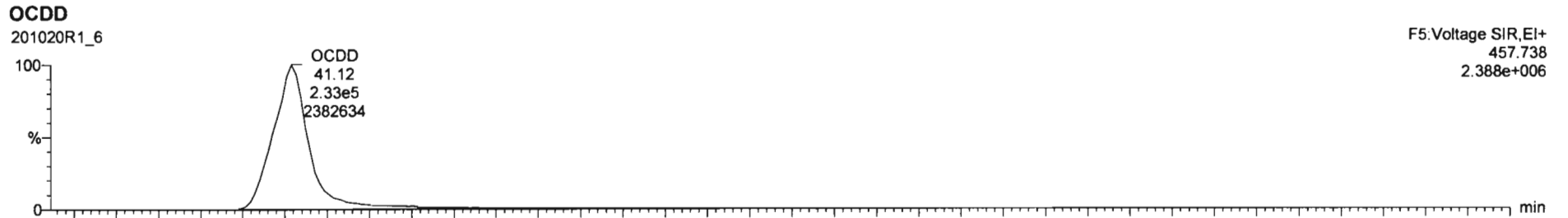
F4: Voltage SIR, EI+  
437.814  
3.691e+006

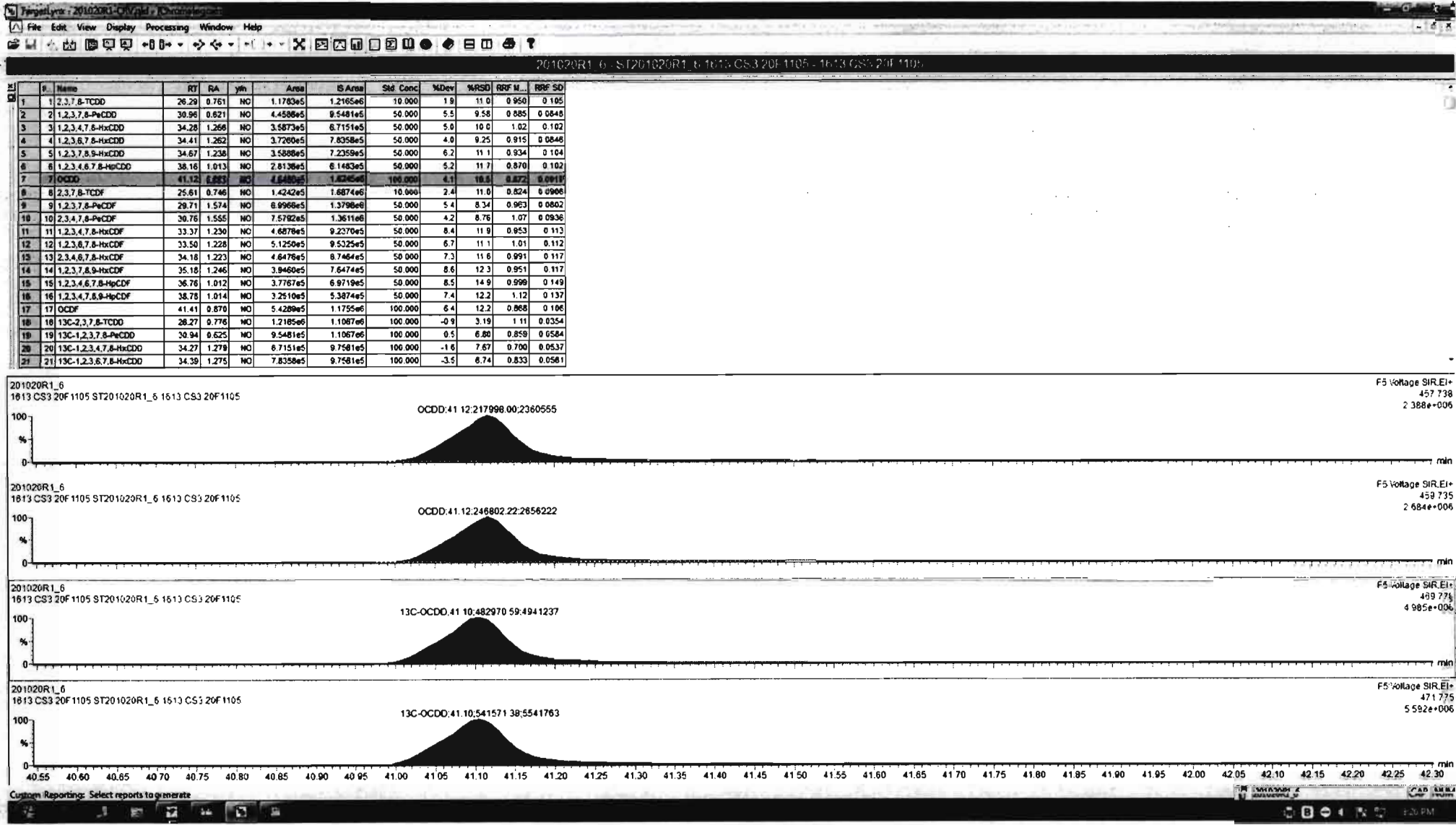


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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1\_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105





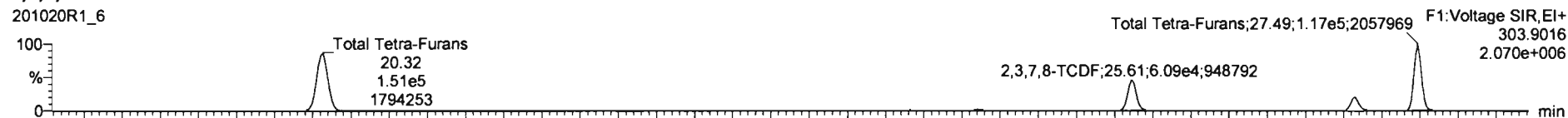
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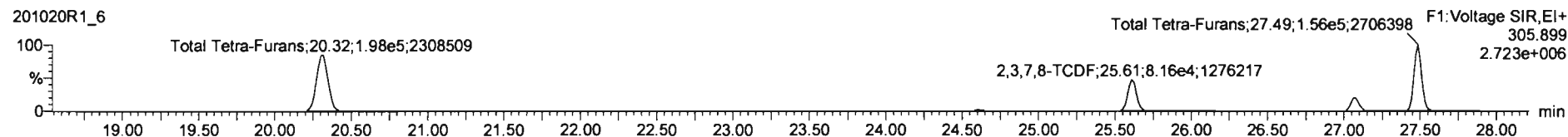
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### 2,3,7,8-TCDF

201020R1\_6

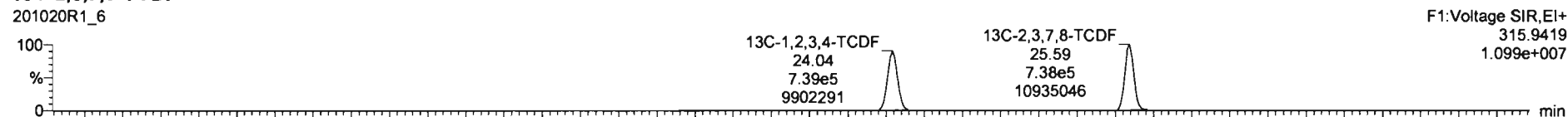


201020R1\_6

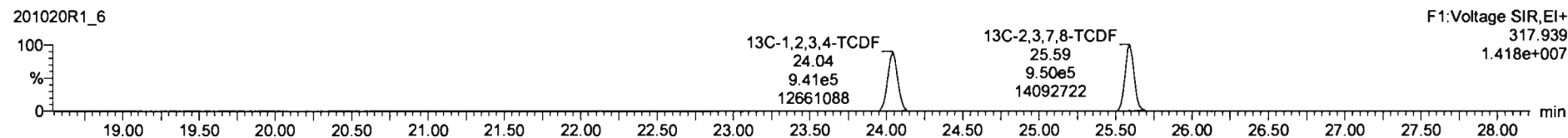


### 13C-2,3,7,8-TCDF

201020R1\_6

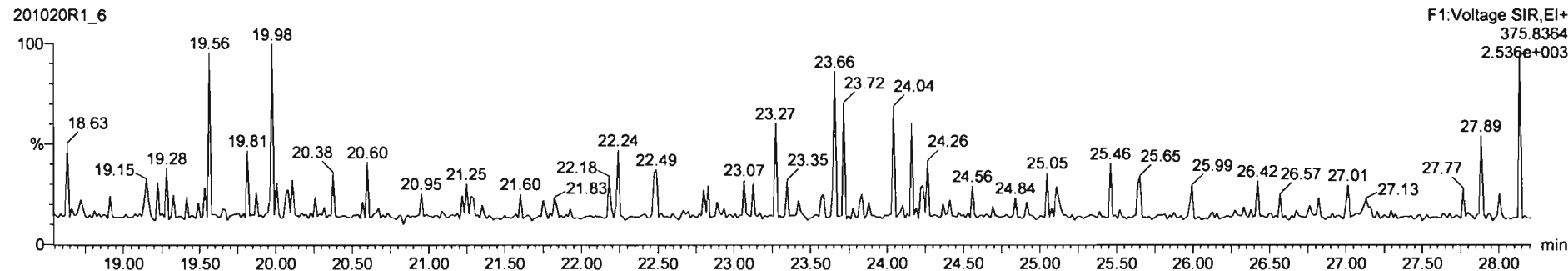


201020R1\_6



### DPE1

201020R1\_6



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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

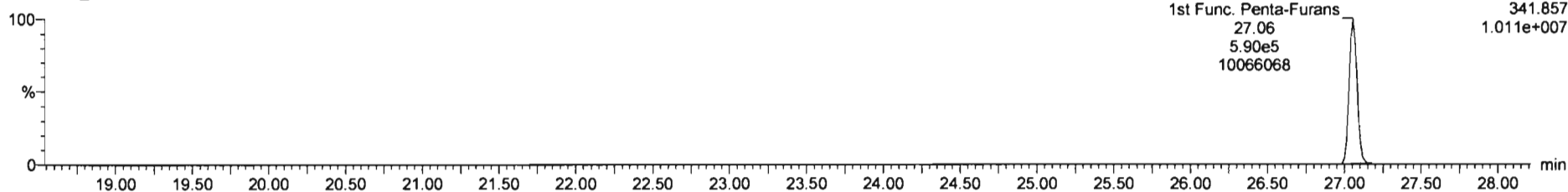
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201020R1\_6

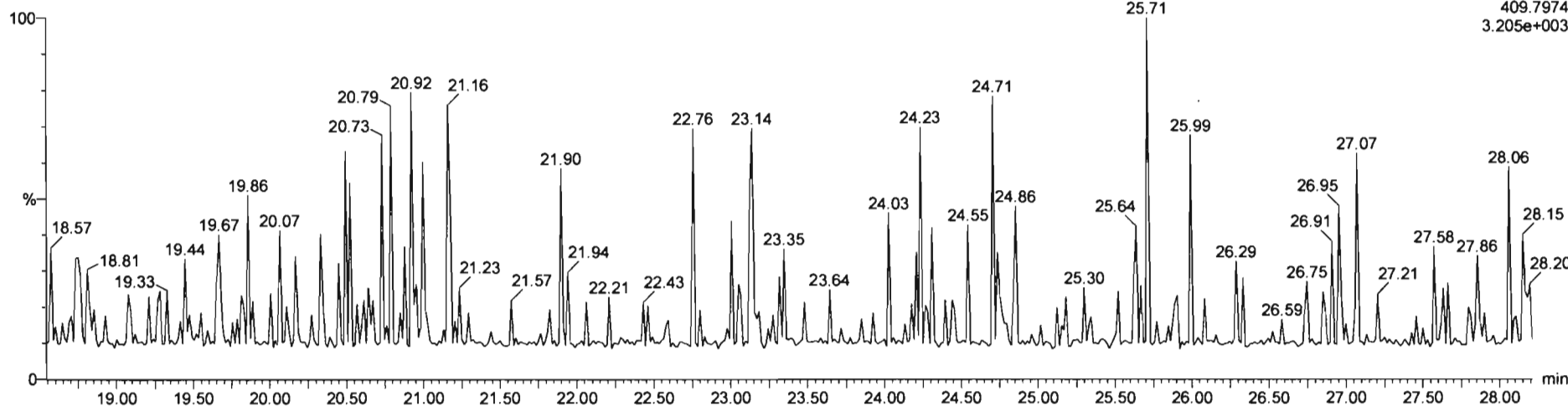


201020R1\_6



DPE6

201020R1\_6





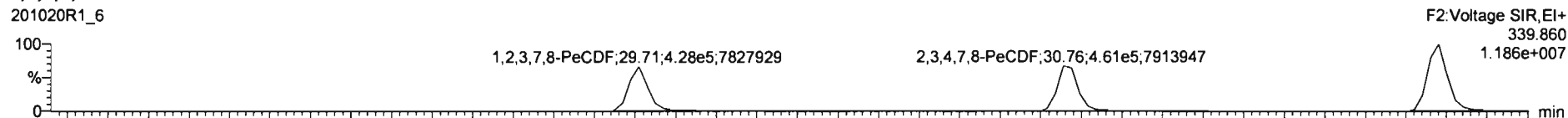
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

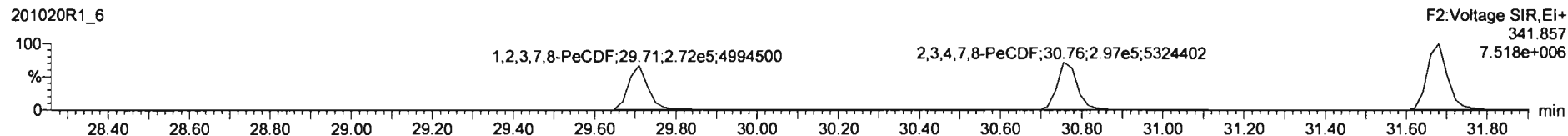
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**1,2,3,7,8-PeCDF**

201020R1\_6

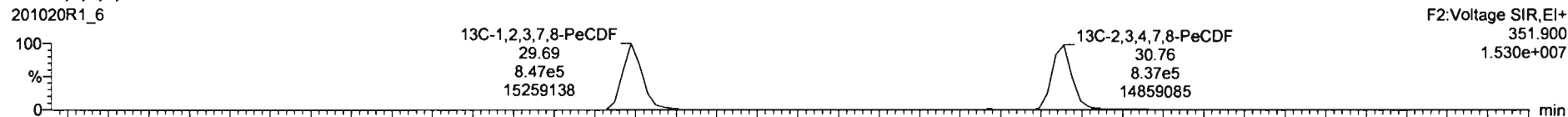


201020R1\_6

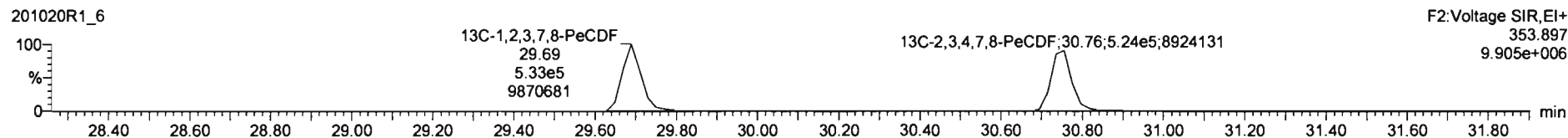


**13C-1,2,3,7,8-PeCDF**

201020R1\_6

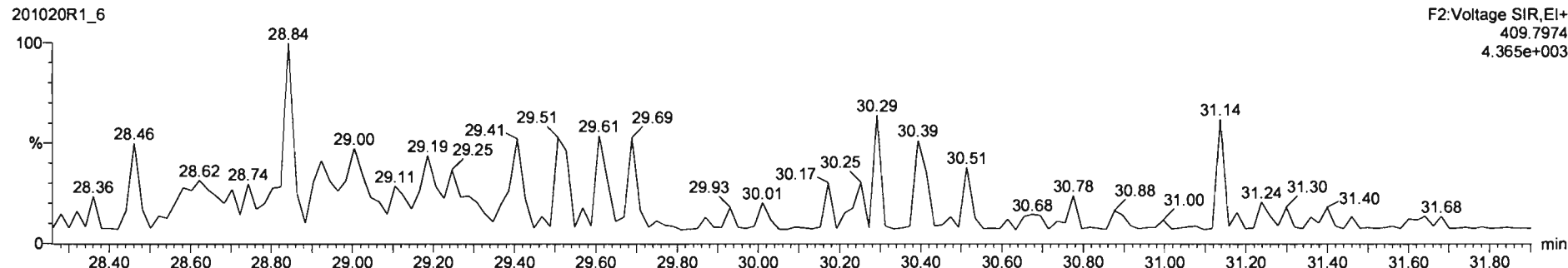


201020R1\_6



**DPE2**

201020R1\_6

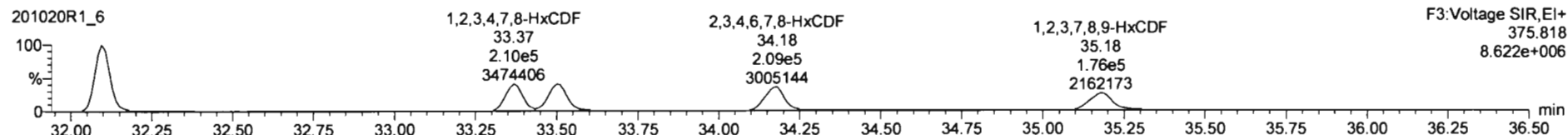
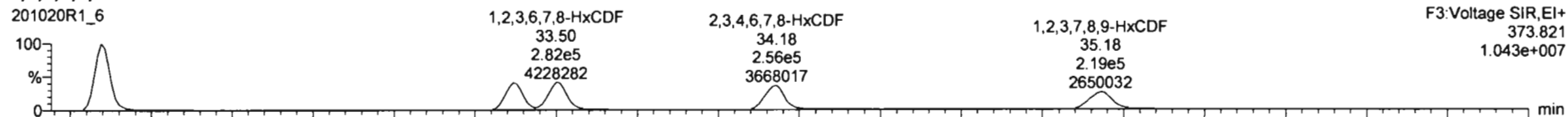


Dataset: Untitled

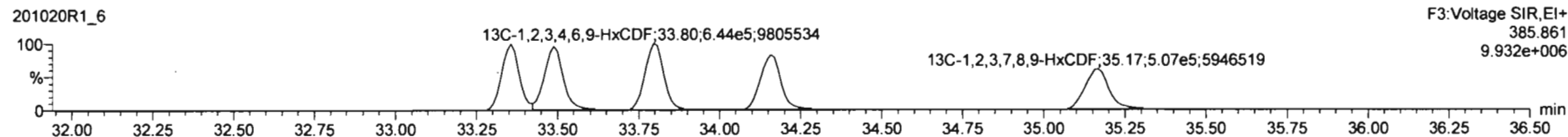
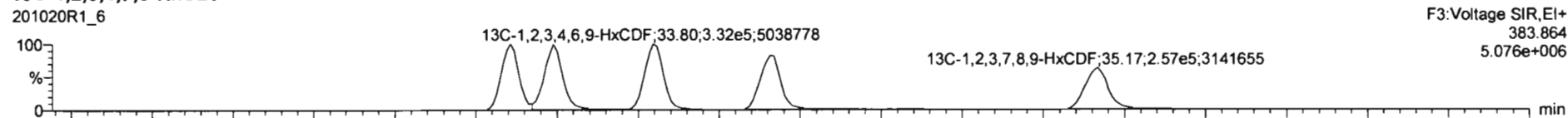
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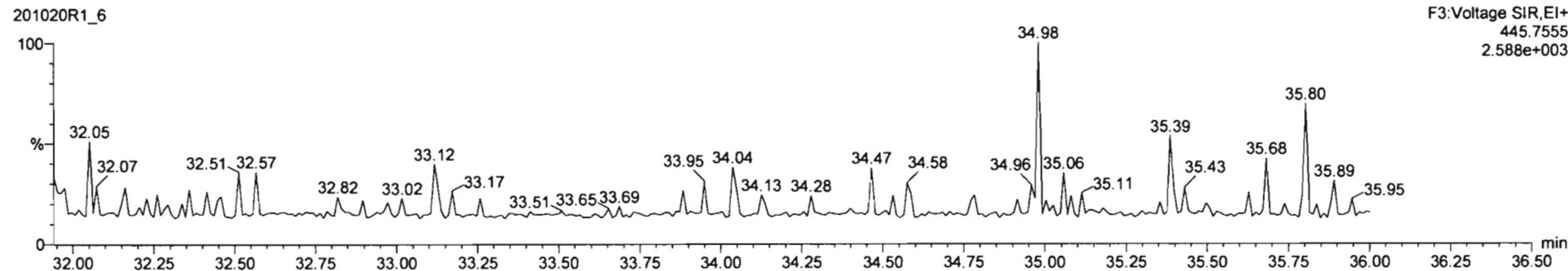
**1,2,3,4,7,8-HxCDF**



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



**DPE3**

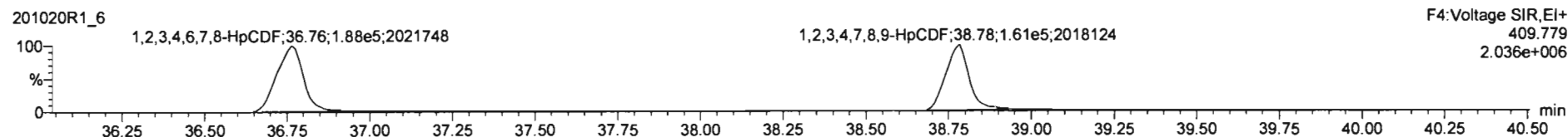
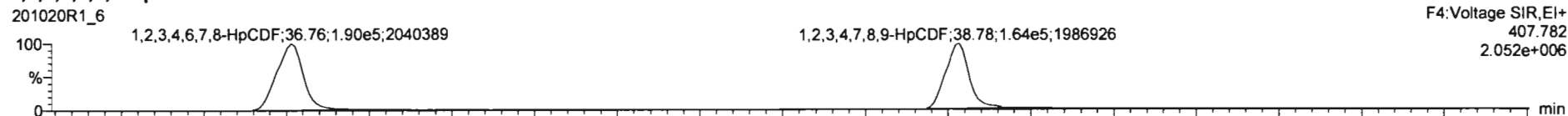


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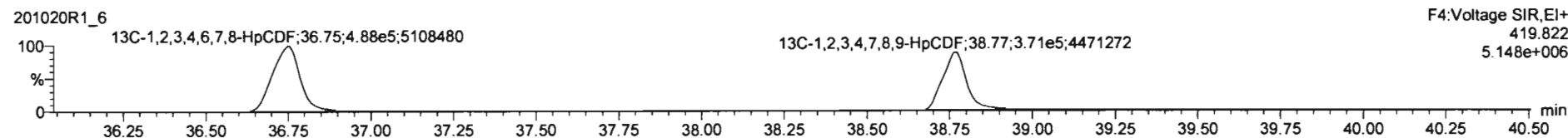
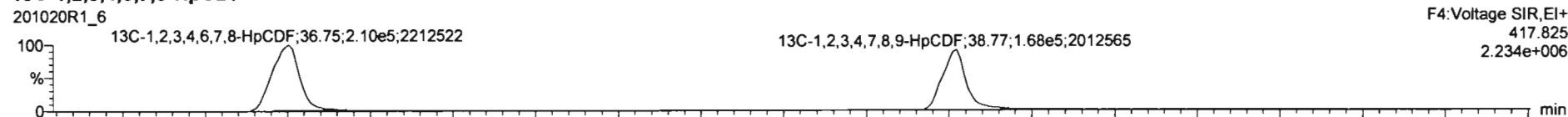
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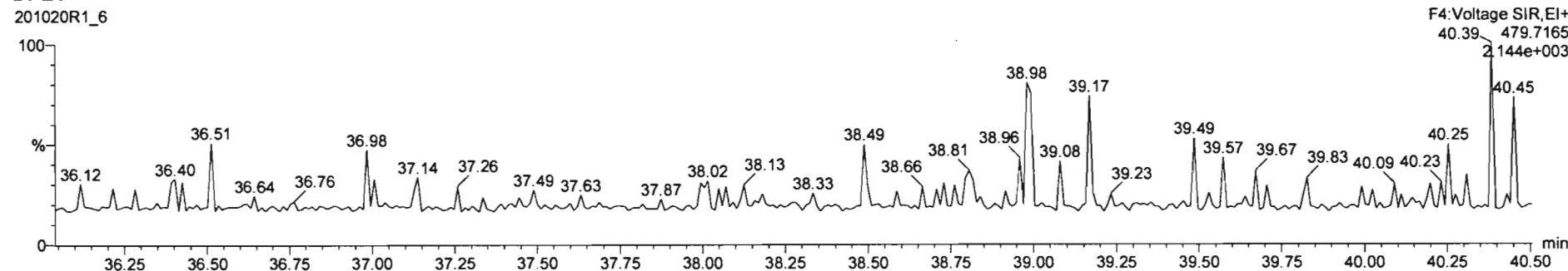
**1,2,3,4,6,7,8-HpCDF**



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



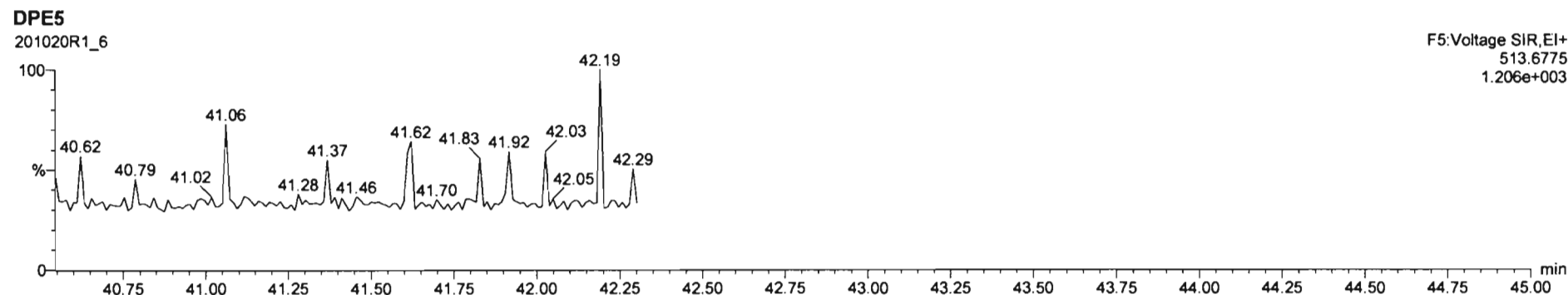
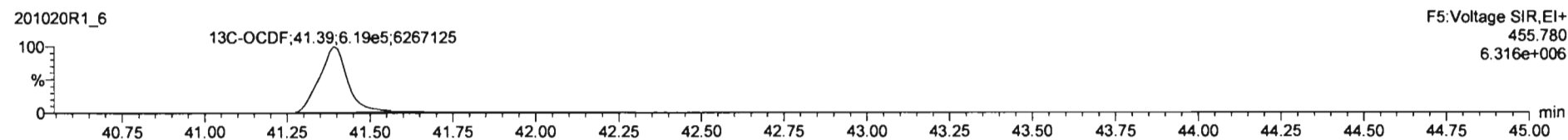
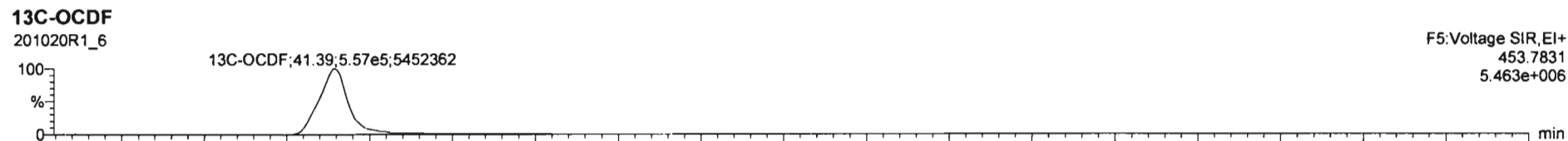
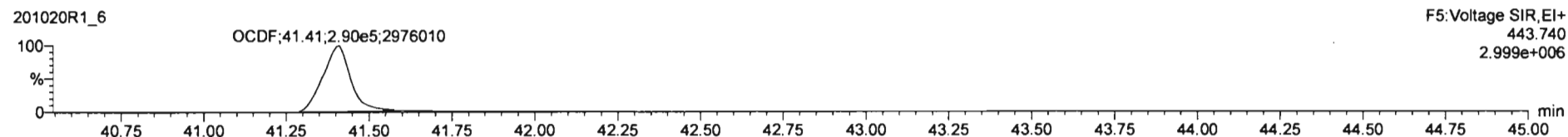
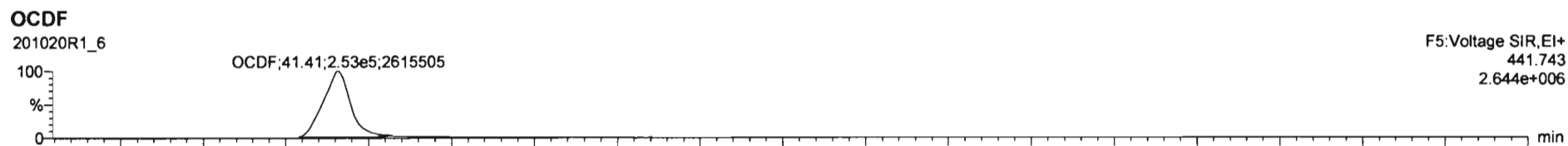
**DPE4**



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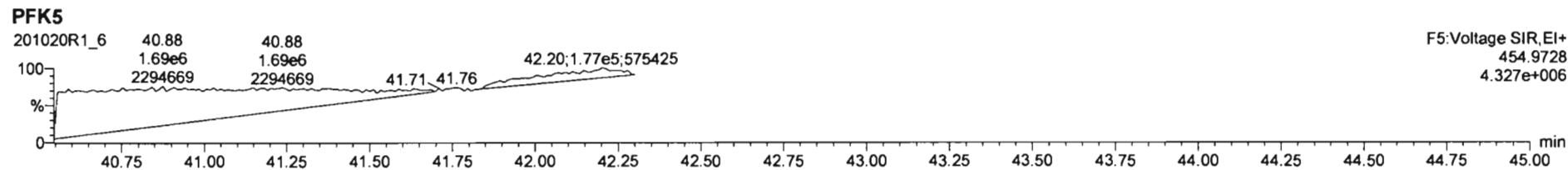
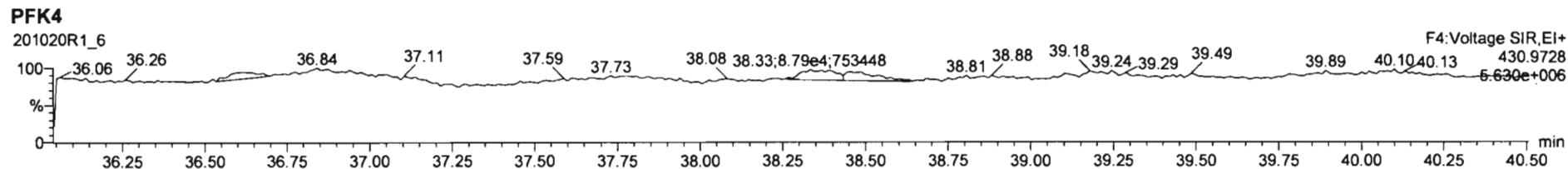
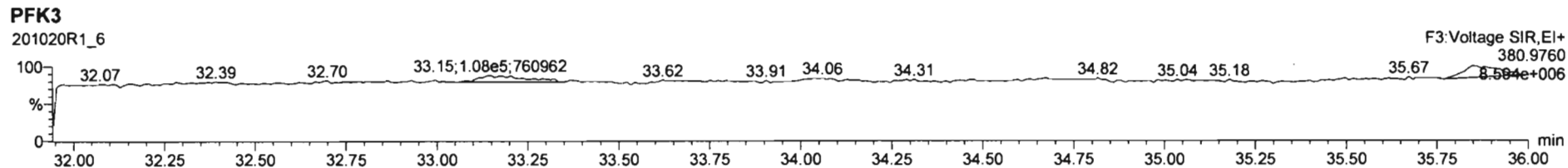
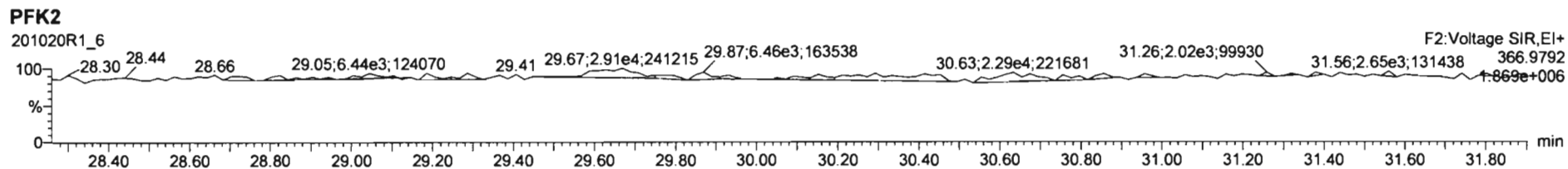
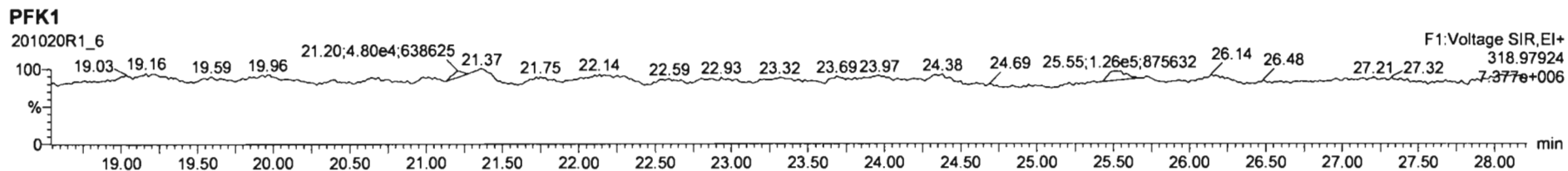
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Dataset: Untitled

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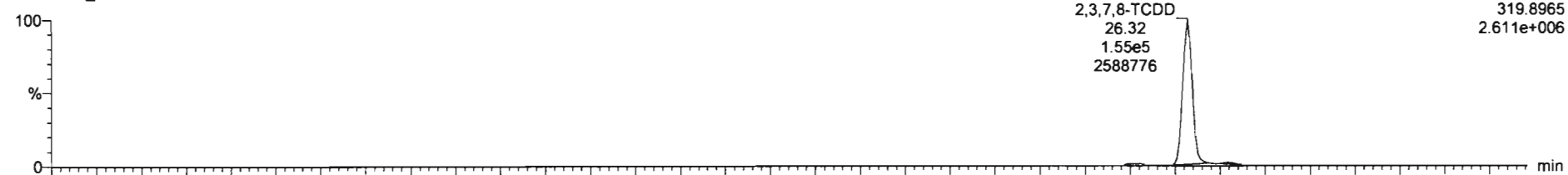
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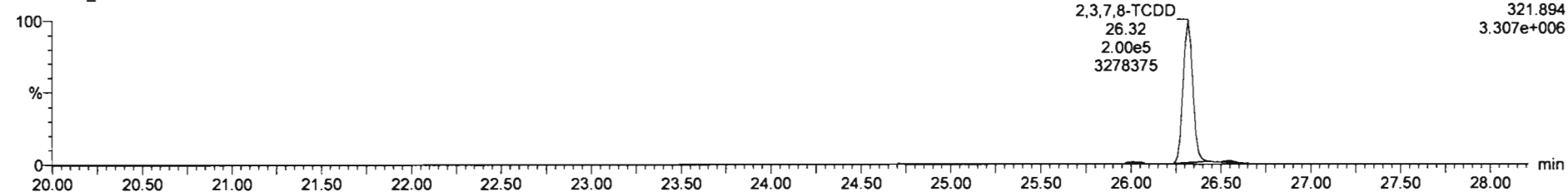
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**2,3,7,8-TCDD**

201020R1\_4

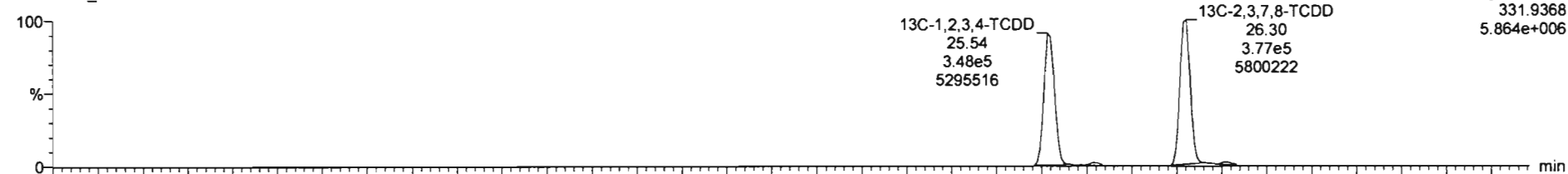


201020R1\_4

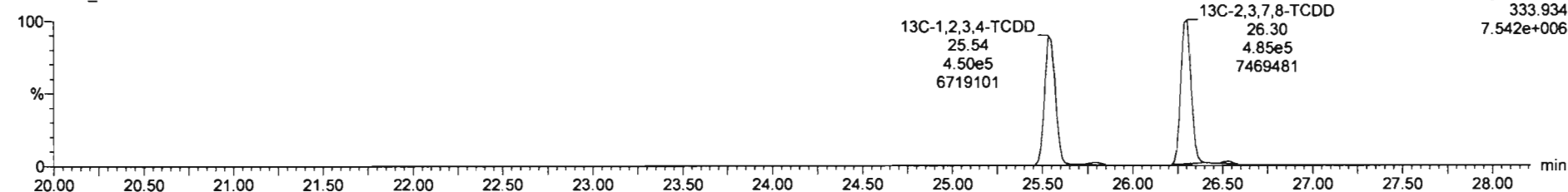


**13C-2,3,7,8-TCDD**

201020R1\_4



201020R1\_4



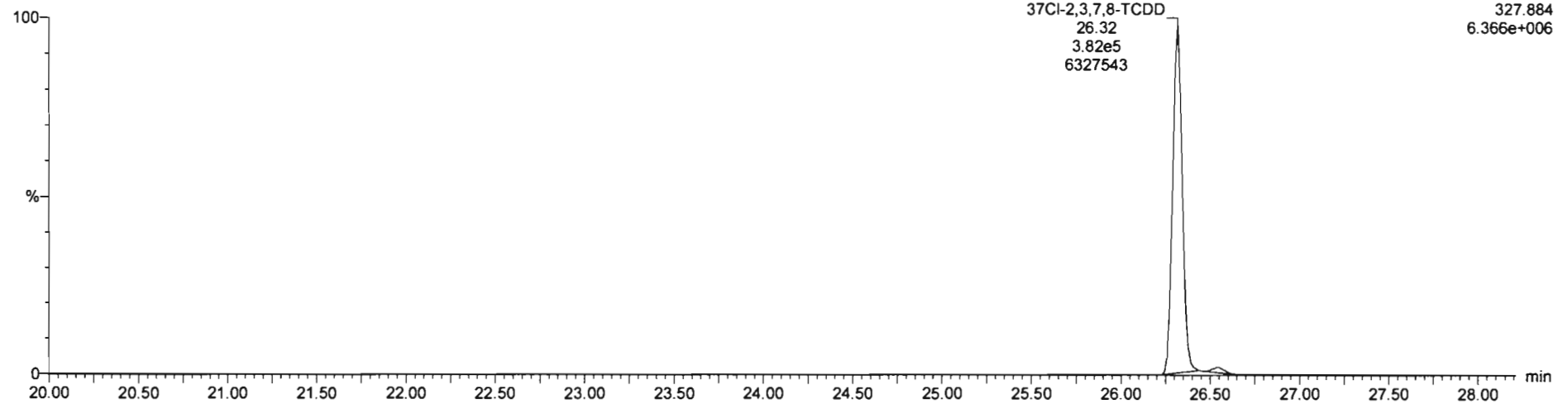
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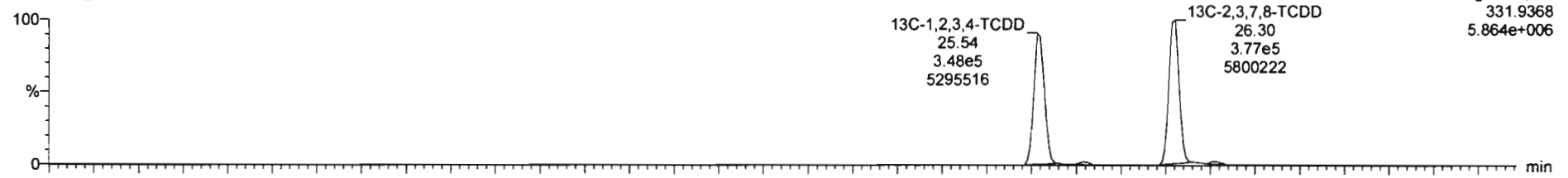
**37Cl-2,3,7,8-TCDD**

201020R1\_4

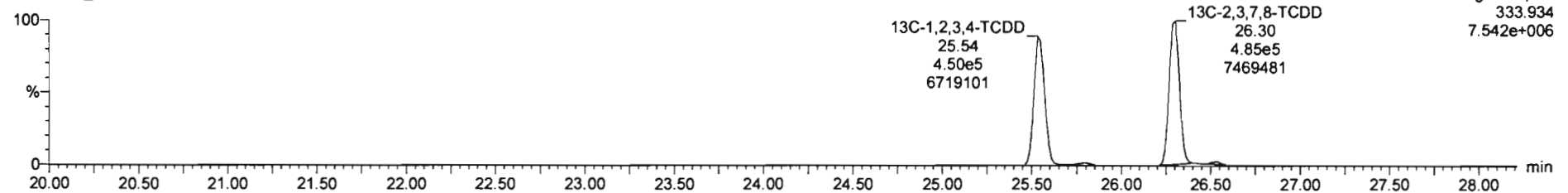


**13C-1,2,3,4-TCDD**

201020R1\_4



201020R1\_4



Dataset: Untitled

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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

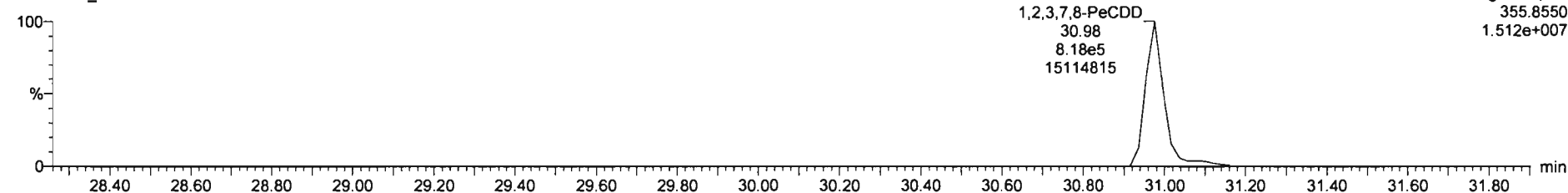
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**1,2,3,7,8-PeCDD**

201020R1\_4

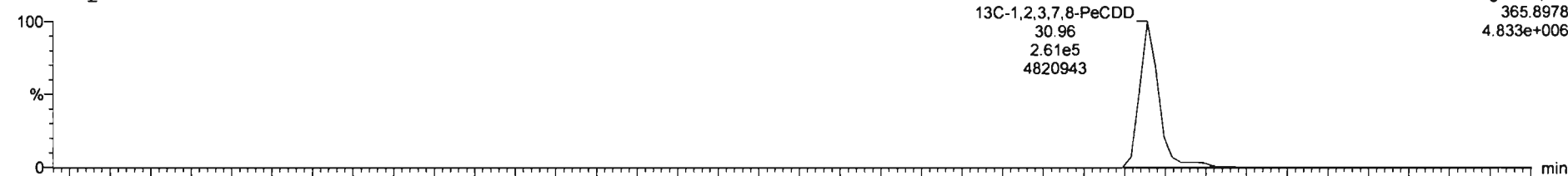


201020R1\_4

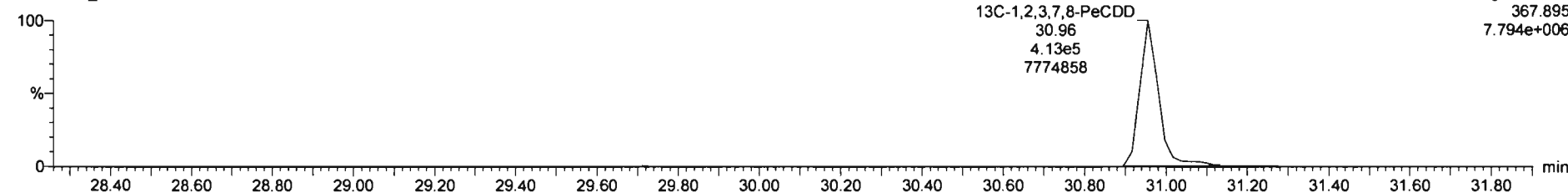


**13C-1,2,3,7,8-PeCDD**

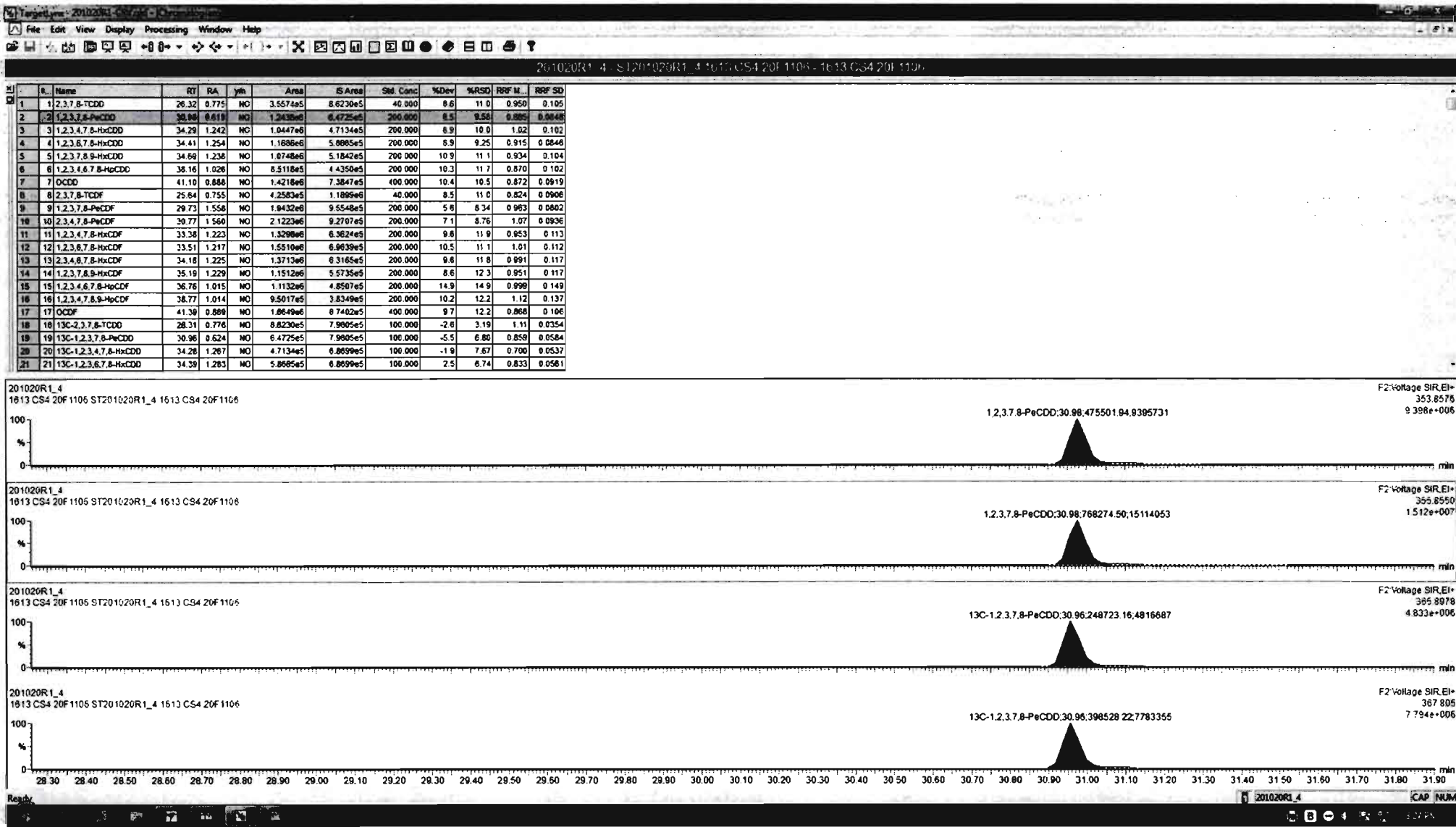
201020R1\_4



201020R1\_4







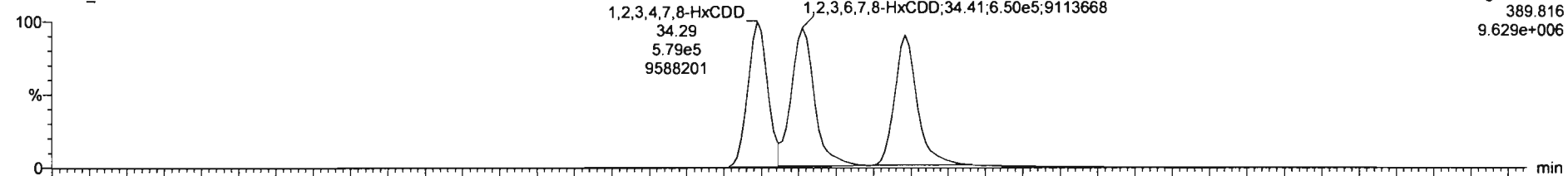
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

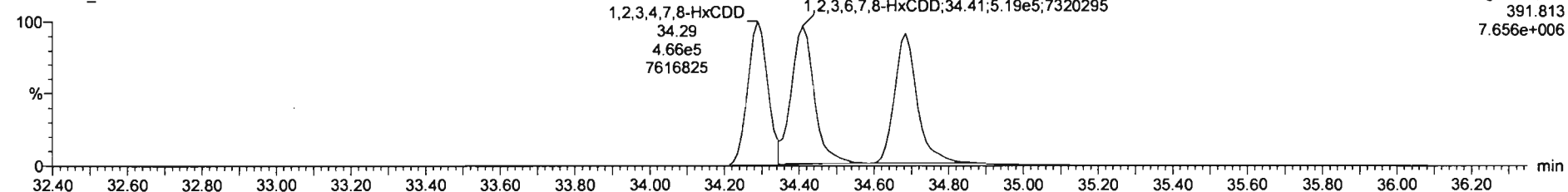
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**1,2,3,4,7,8-HxCDD**

201020R1\_4

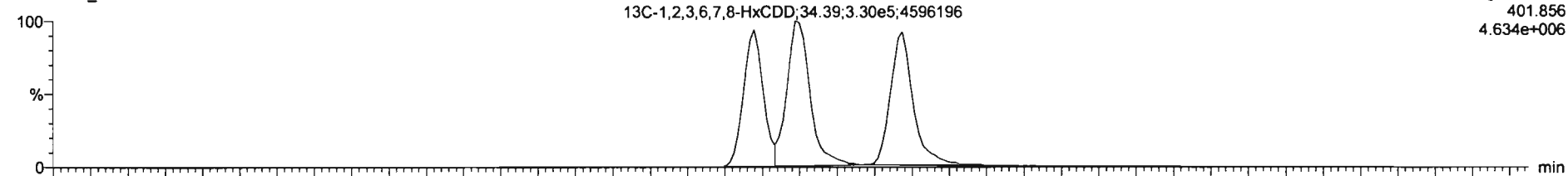


201020R1\_4

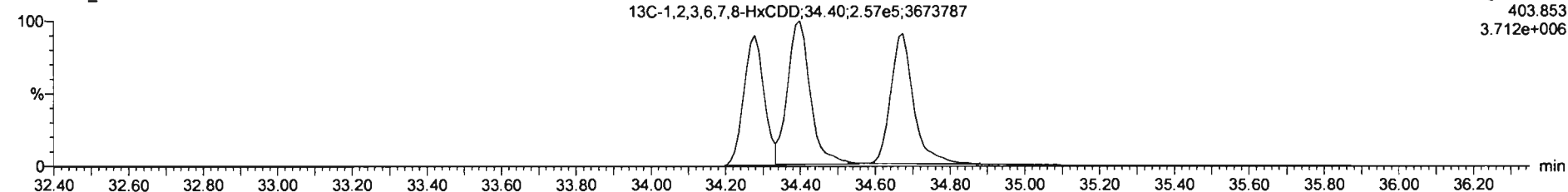


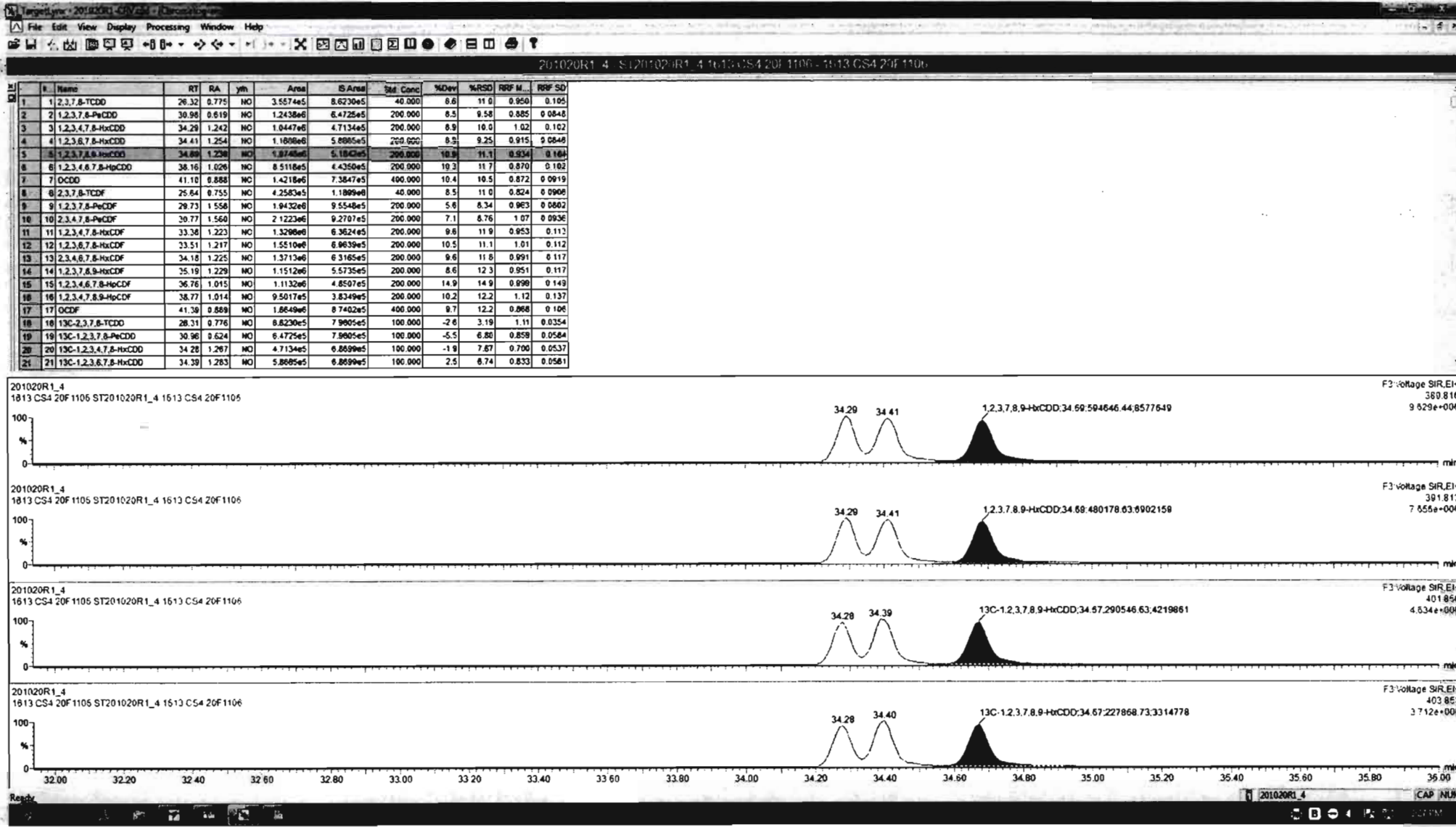
**13C-1,2,3,4,7,8-HxCDD**

201020R1\_4



201020R1\_4





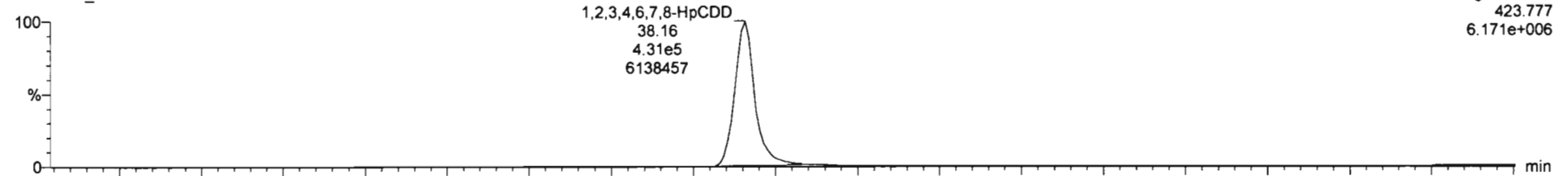
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

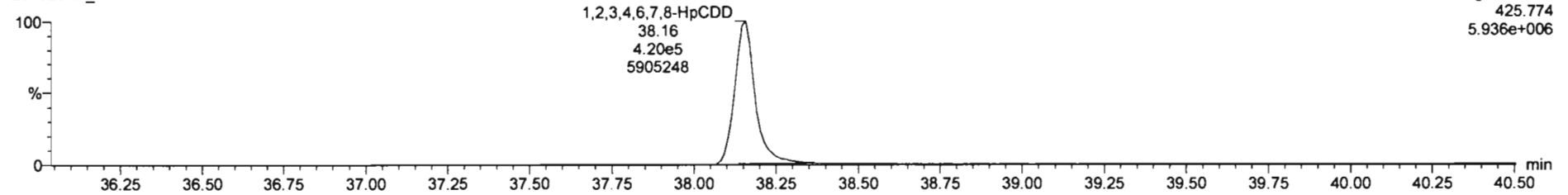
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**1,2,3,4,6,7,8-HpCDD**

201020R1\_4

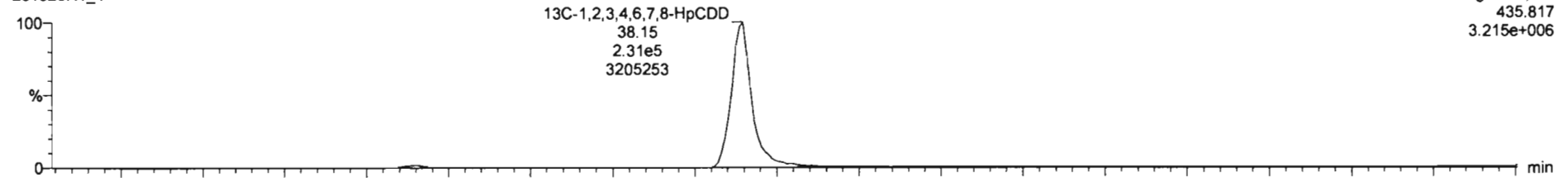


201020R1\_4

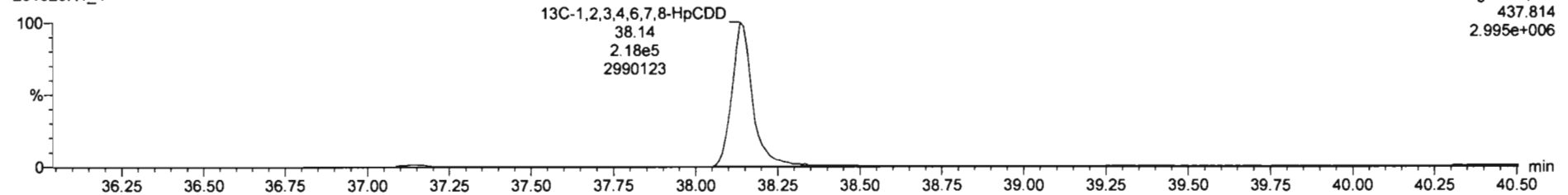


**13C-1,2,3,4,6,7,8-HpCDD**

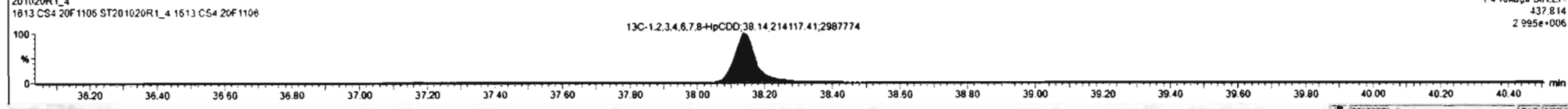
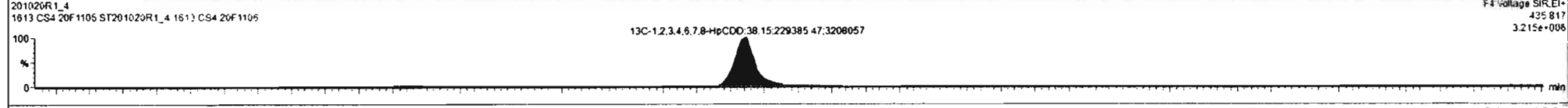
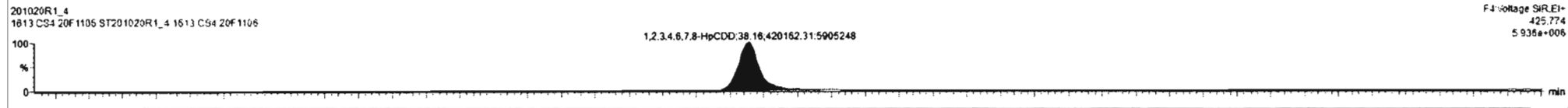
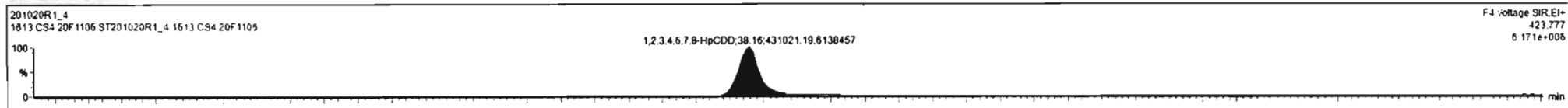
201020R1\_4



201020R1\_4



#	R	Name	RT	RA	Yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1	1,2,3,7,8-TCDD	26.32	0.775	NO	3.5574e5	8.6230e5	40.000	8.8	11.0	0.950	0.185
2	2	1,2,3,7,8-PeCDD	30.98	0.619	NO	1.2438e6	6.4725e5	200.000	8.5	9.58	0.585	0.0648
3	3	1,2,3,4,7,8-HxCDD	34.29	1.242	NO	1.0447e6	4.7134e5	200.000	8.9	10.0	1.02	0.102
4	4	1,2,3,6,7,8-HxCDD	34.41	1.254	NO	1.1898e6	5.8685e5	200.000	8.9	9.25	0.915	0.0846
5	5	1,2,3,7,8,9-HxCDD	34.63	1.238	NO	1.0748e6	5.1842e5	200.000	10.9	11.1	0.934	0.164
6	6	1,2,3,4,6,7,8-HpCDD	38.18	1.628	NO	8.5118e5	4.4390e5	200.000	10.3	11.7	0.878	0.182
7	7	OCDD	41.10	0.888	NO	1.4218e6	7.3847e5	400.000	10.4	10.5	0.872	0.0919
8	8	2,3,7,8-TCDF	25.84	0.755	NO	4.2583e5	1.1899e6	40.000	8.5	11.0	0.824	0.0906
9	9	1,2,3,7,8-PeCDF	29.73	1.556	NO	1.9432e6	9.5548e5	200.000	5.8	8.34	0.983	0.0802
10	10	2,3,4,7,8-PeCDF	30.77	1.560	NO	2.1223e6	9.2707e5	200.000	7.1	8.76	1.07	0.0936
11	11	1,2,3,4,7,8-HxCDF	33.38	1.223	NO	1.3298e6	6.3824e5	200.000	9.8	11.9	0.953	0.113
12	12	1,2,3,6,7,8-HxCDF	33.51	1.217	NO	1.5510e6	8.9639e5	200.000	10.5	11.1	1.01	0.112
13	13	2,3,4,6,7,8-HxCDF	34.18	1.225	NO	1.3713e6	6.3165e5	200.000	9.8	11.8	0.991	0.117
14	14	1,2,3,7,8,9-HxCDF	35.19	1.229	NO	1.1512e6	5.5735e5	200.000	8.6	12.3	0.951	0.117
15	15	1,2,3,4,6,7,8-HpCDF	36.76	1.015	NO	1.1132e6	4.8507e5	200.000	14.9	14.9	0.998	0.149
16	16	1,2,3,4,7,8,9-HpCDF	38.77	1.014	NO	9.5017e5	3.6349e5	200.000	10.2	12.2	1.12	0.137
17	17	OCDF	41.39	0.889	NO	1.8649e6	8.7402e5	400.000	9.7	12.2	0.868	0.106
18	18	13C-2,3,7,8-TCDD	26.31	0.776	NO	8.6230e5	7.9605e5	100.000	-2.6	3.19	1.11	0.0354
19	19	13C-1,2,3,7,8-PeCDD	30.96	0.624	NO	6.4725e5	7.9605e5	100.000	-5.5	6.80	0.859	0.0584
20	20	13C-1,2,3,4,7,8-HxCDD	34.28	1.267	NO	4.7134e5	6.8899e5	100.000	-1.9	7.67	0.700	0.0537
21	21	13C-1,2,3,6,7,8-HxCDD	34.39	1.283	NO	5.8685e5	6.8899e5	100.000	2.5	6.74	0.833	0.0581



Dataset: Untitled

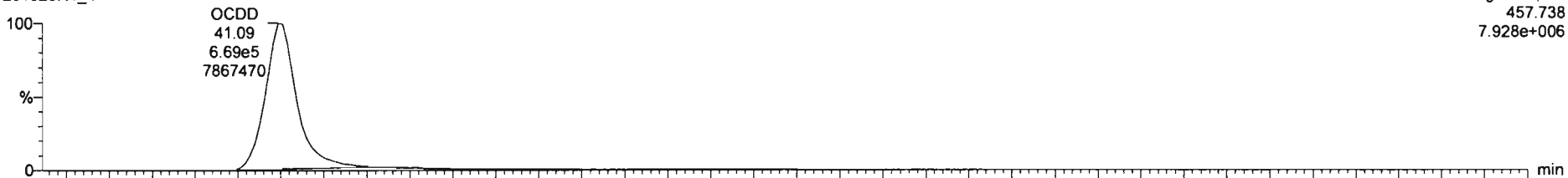
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_4, Date: 20-Oct-2020, Time: 11:32:31, ID: ST201020R1\_4 1613 CS4 20F1106, Description: 1613 CS4 20F1106

OCDD

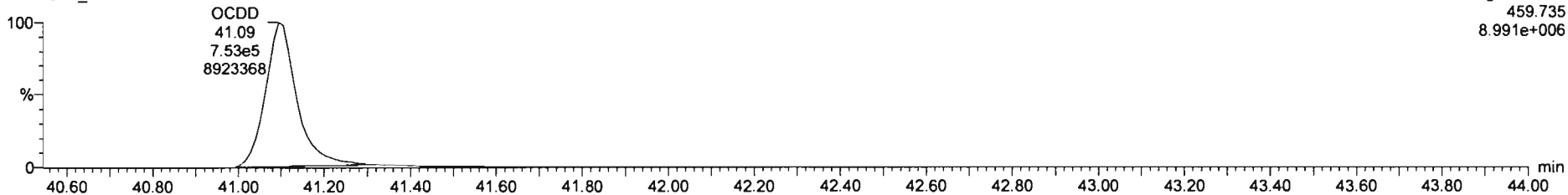
201020R1\_4

F5:Voltage SIR,EI+  
457.738  
7.928e+006



201020R1\_4

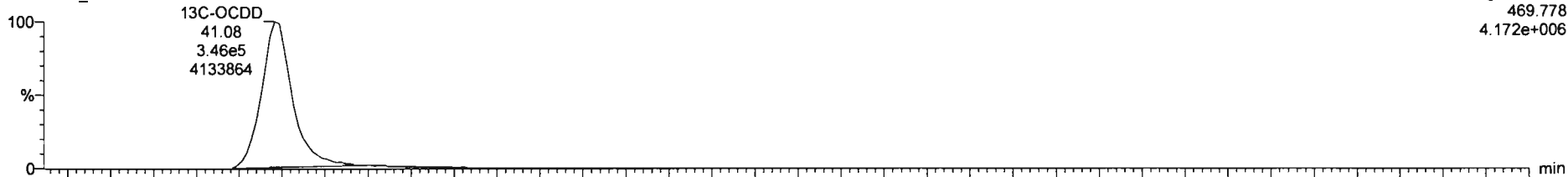
F5:Voltage SIR,EI+  
459.735  
8.991e+006



13C-OCDD

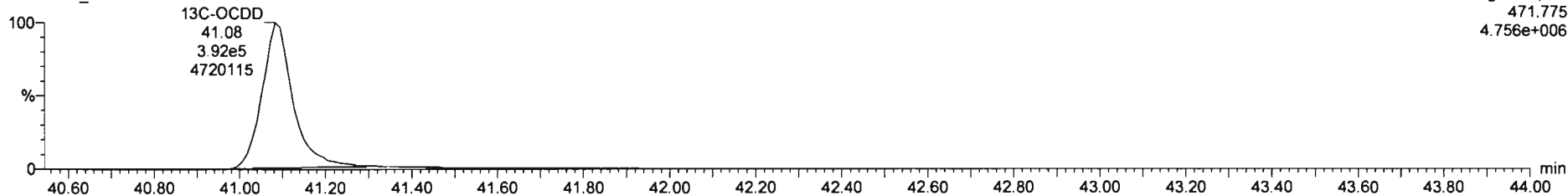
201020R1\_4

F5:Voltage SIR,EI+  
469.778  
4.172e+006



201020R1\_4

F5:Voltage SIR,EI+  
471.775  
4.756e+006



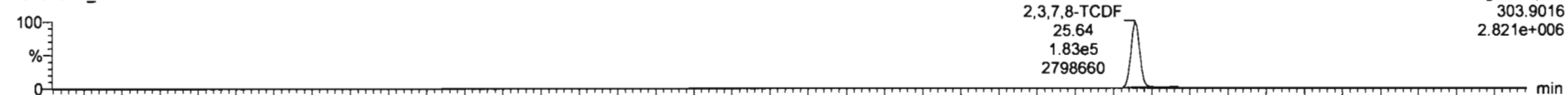
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

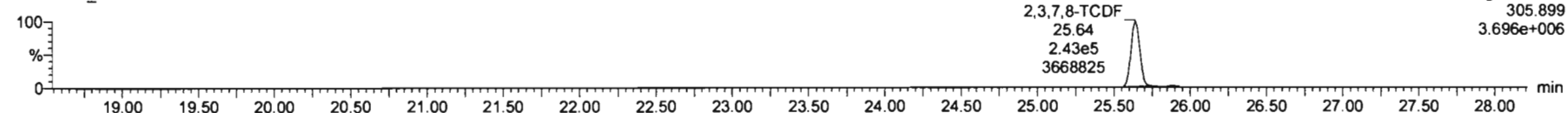
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**2,3,7,8-TCDF**

201020R1\_4

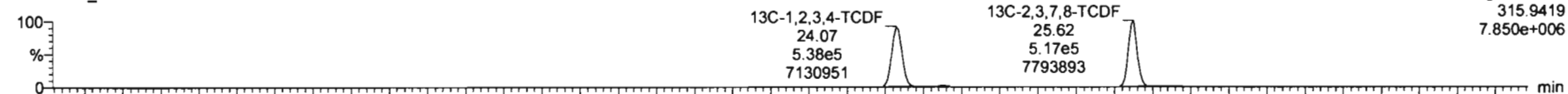


201020R1\_4

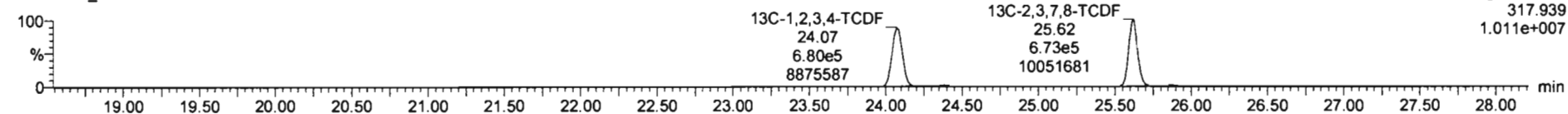


**13C-2,3,7,8-TCDF**

201020R1\_4

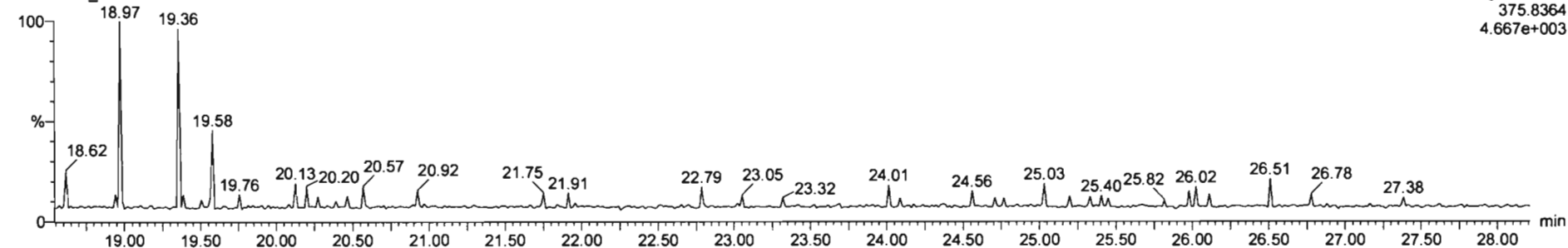


201020R1\_4



**DPE1**

201020R1\_4



Dataset: Untitled

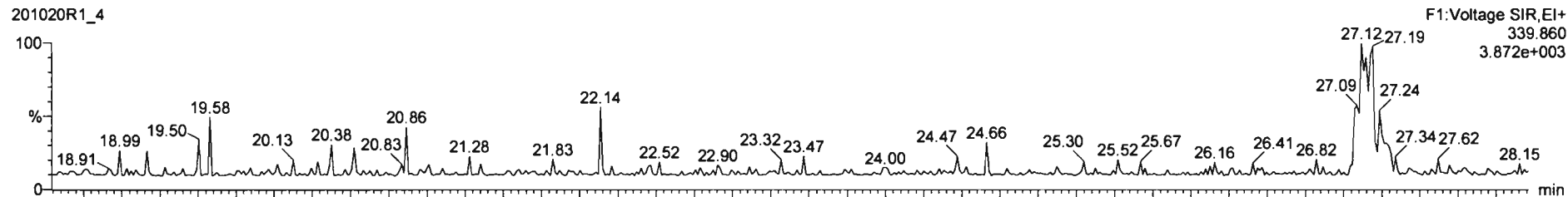
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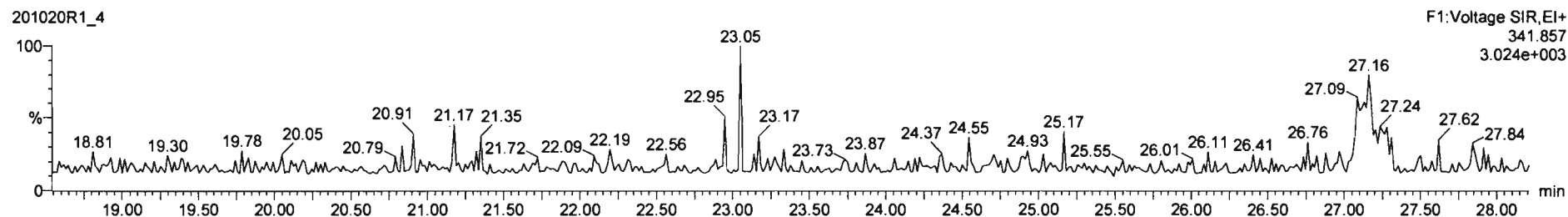
Name: 201020R1\_4, Date: 20-Oct-2020, Time: 11:32:31, ID: ST201020R1\_4 1613 CS4 20F1106, Description: 1613 CS4 20F1106

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201020R1\_4

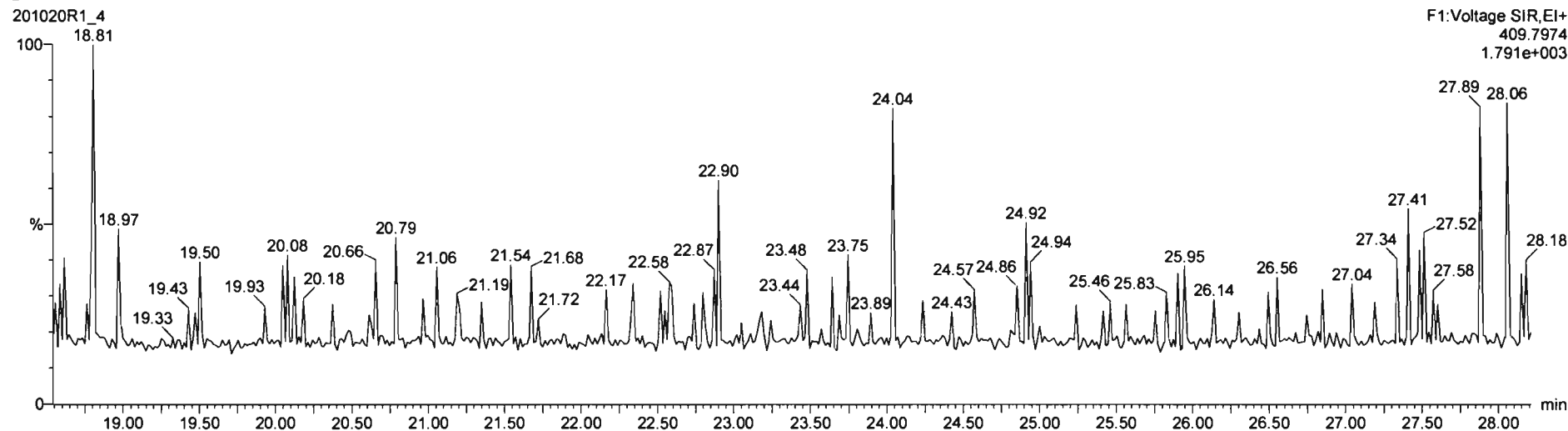


201020R1\_4



DPE6

201020R1\_4





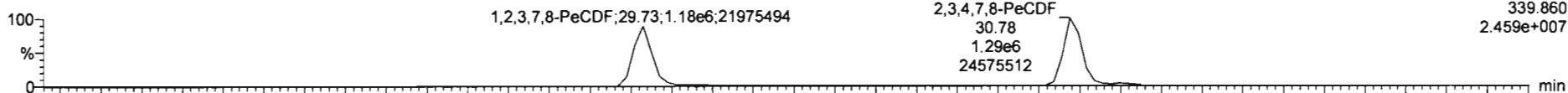
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

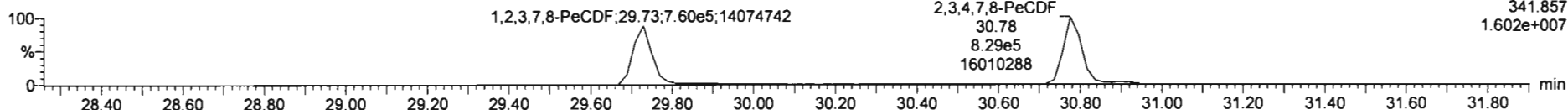
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**1,2,3,7,8-PeCDF**

201020R1\_4

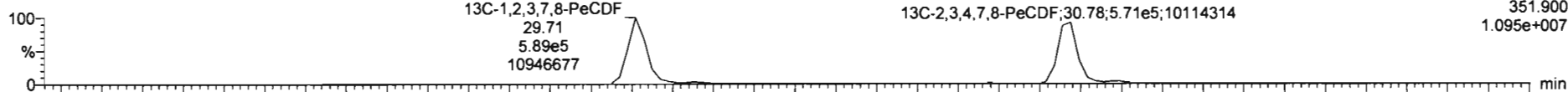


201020R1\_4

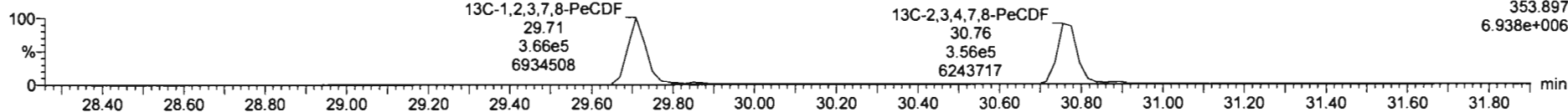


**13C-1,2,3,7,8-PeCDF**

201020R1\_4

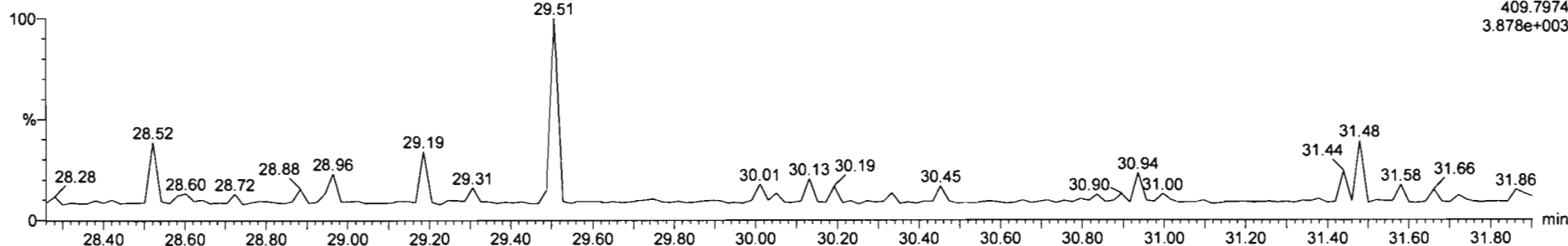


201020R1\_4



**DPE2**

201020R1\_4



Dataset: Untitled

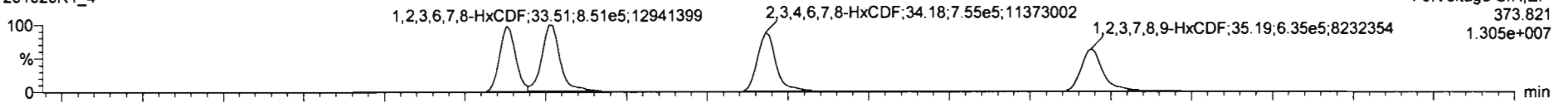
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

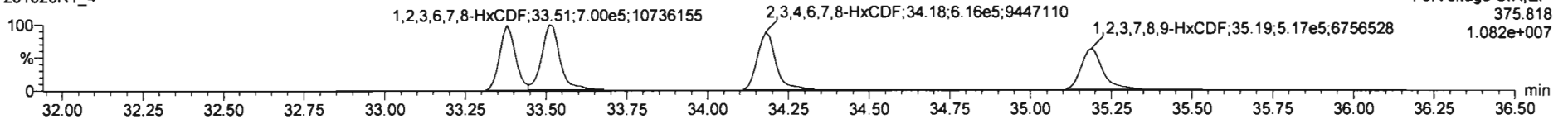
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**1,2,3,4,7,8-HxCDF**

201020R1\_4

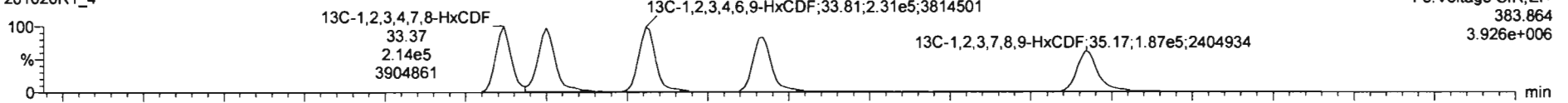


201020R1\_4

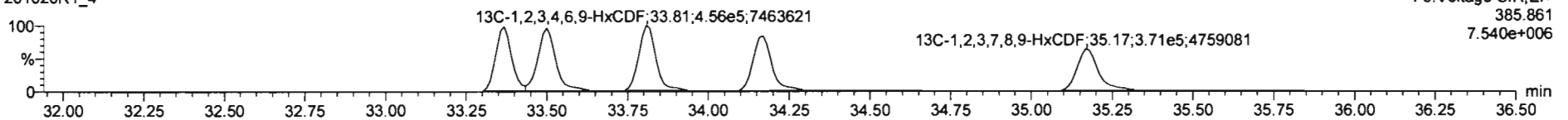


**13C-1,2,3,4,7,8-HxCDF**

201020R1\_4

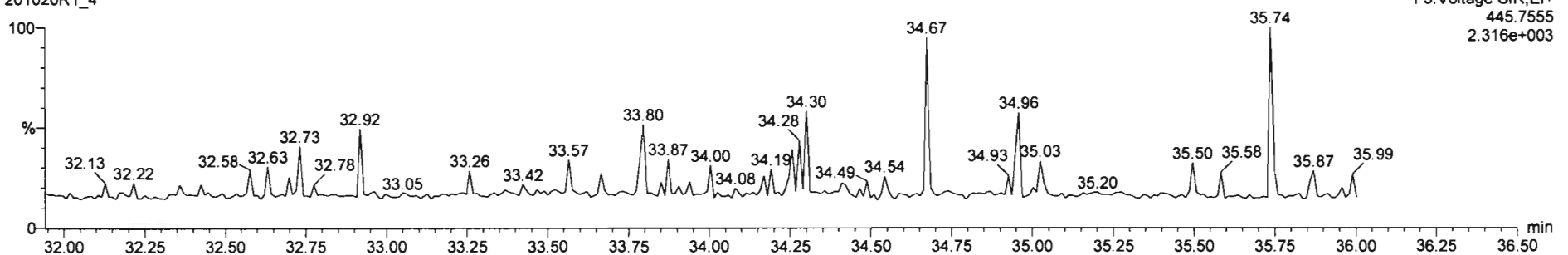


201020R1\_4



**DPE3**

201020R1\_4



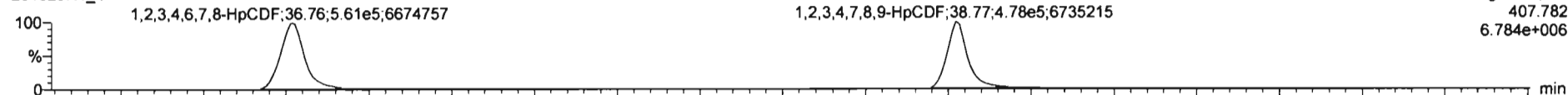
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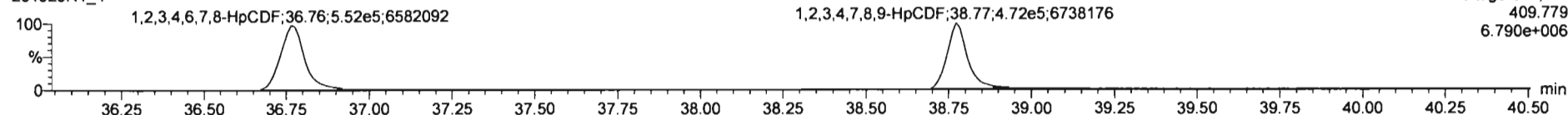
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**1,2,3,4,6,7,8-HpCDF**

201020R1\_4

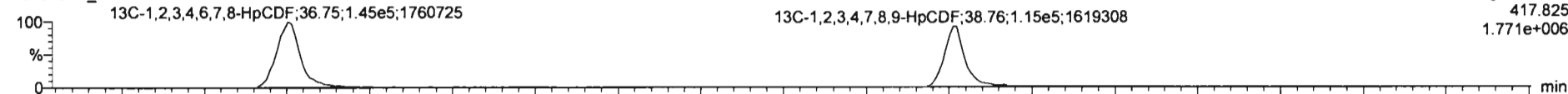


201020R1\_4

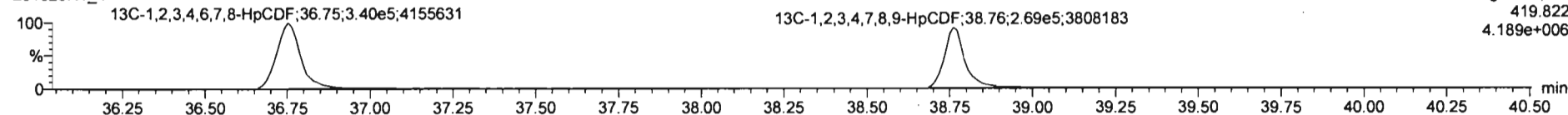


**13C-1,2,3,4,6,7,8-HpCDF**

201020R1\_4

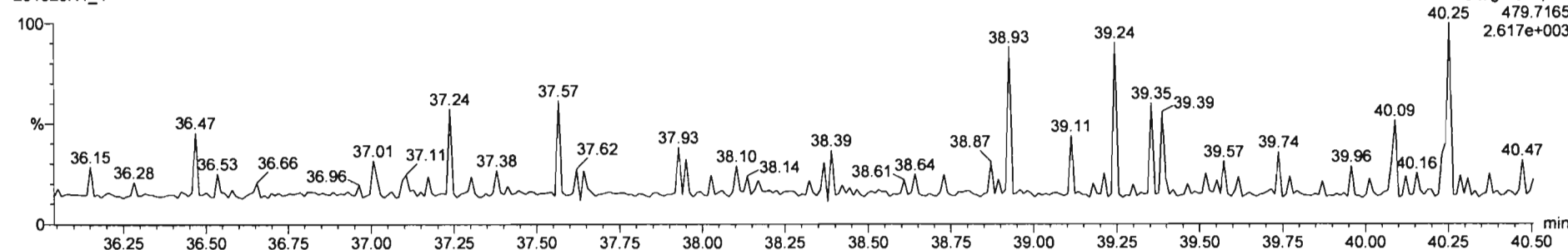


201020R1\_4



**DPE4**

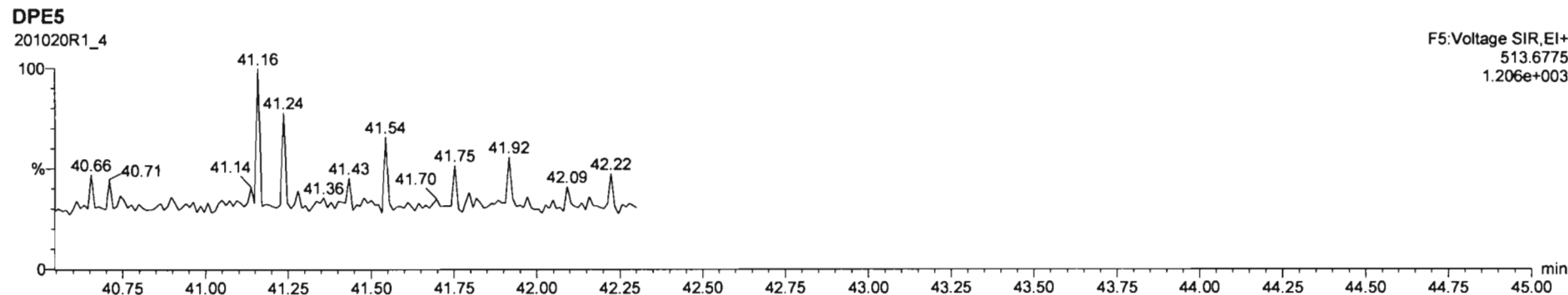
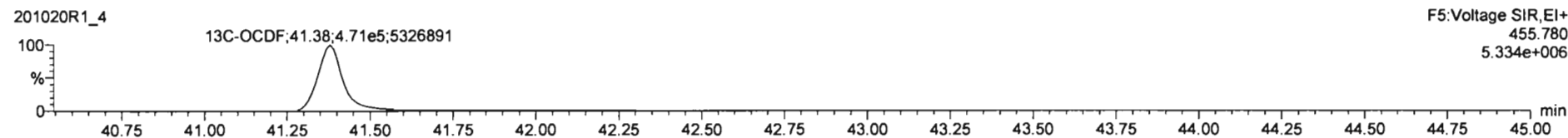
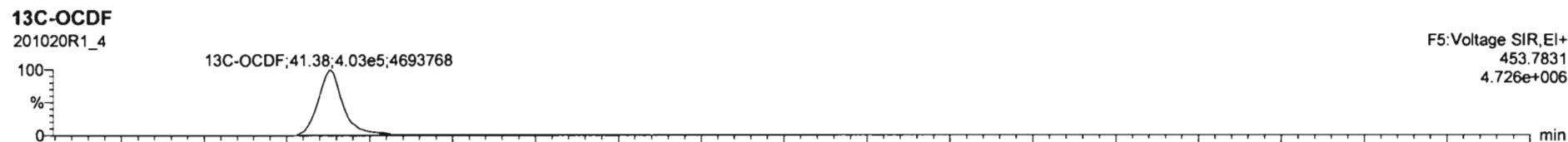
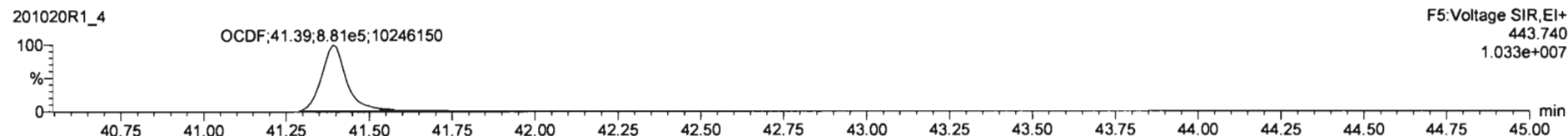
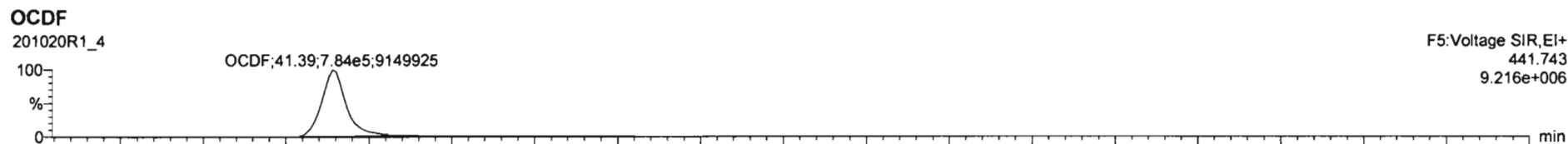
201020R1\_4



Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

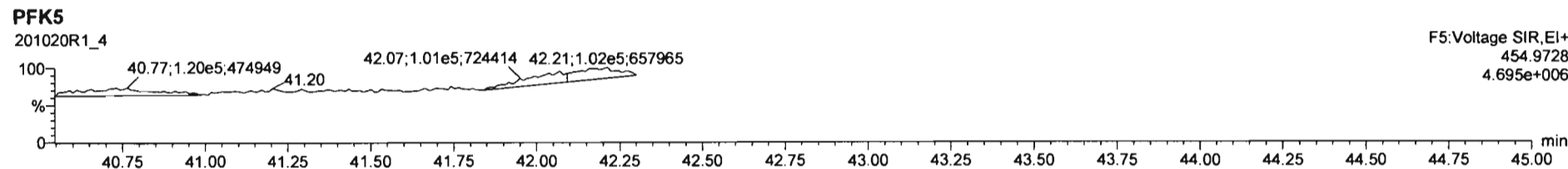
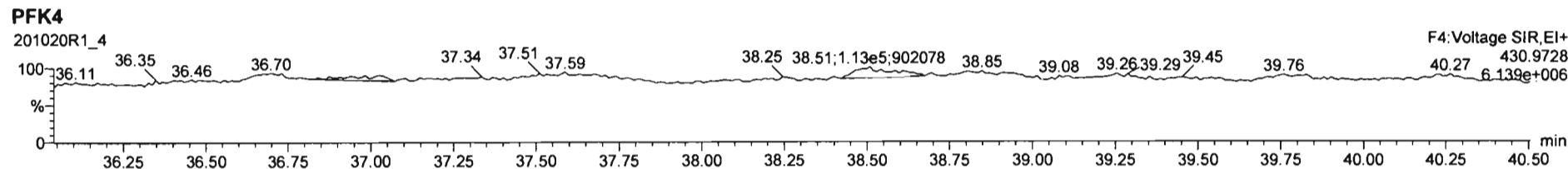
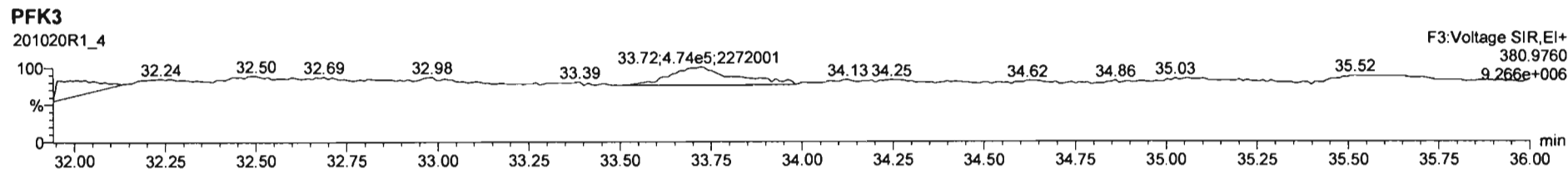
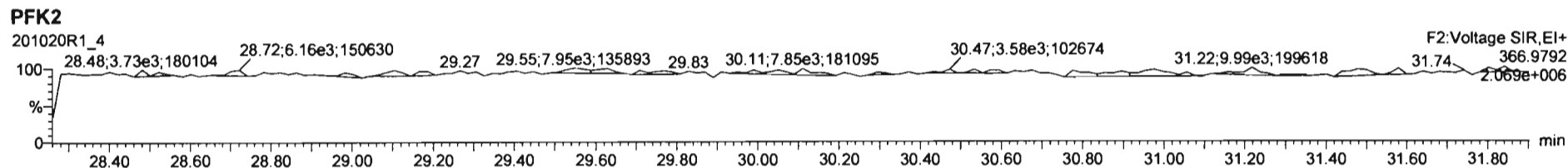
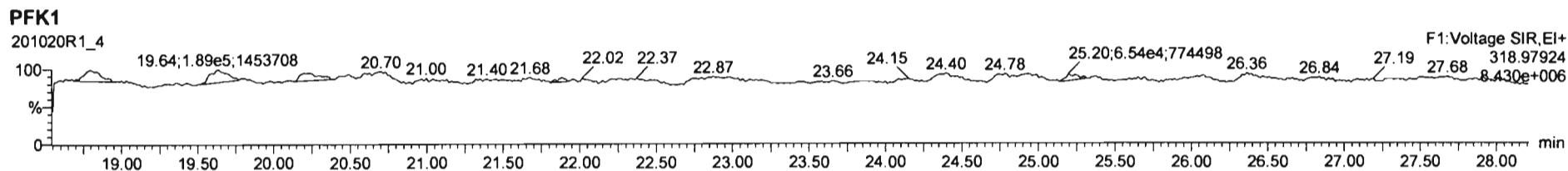
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Dataset: Untitled

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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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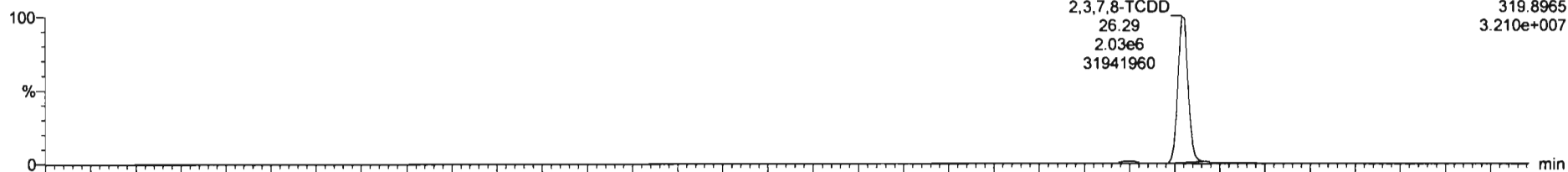
Dataset: Untitled

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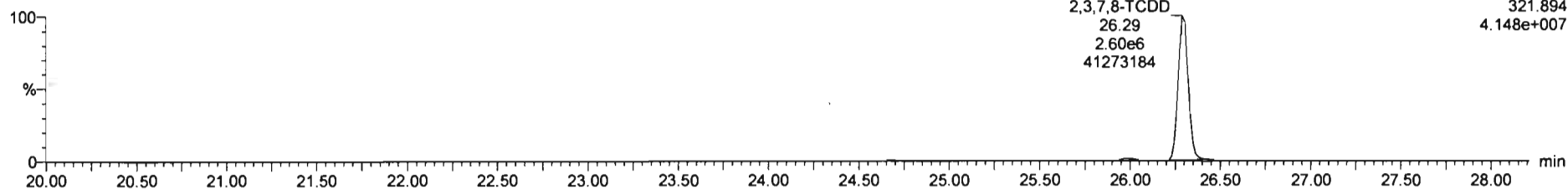
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**2,3,7,8-TCDD**

201020R1\_5

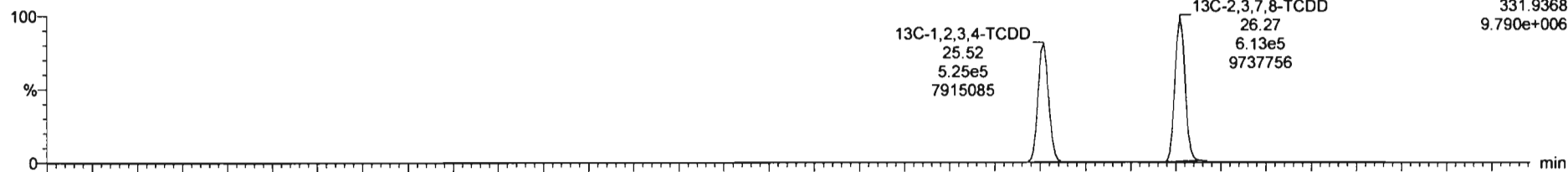


201020R1\_5

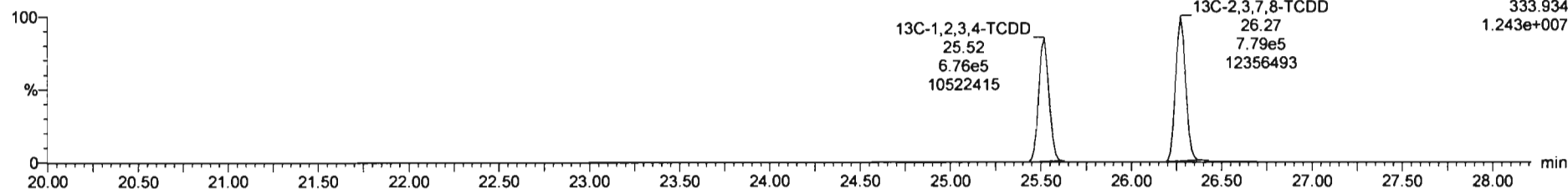


**<sup>13</sup>C-2,3,7,8-TCDD**

201020R1\_5



201020R1\_5



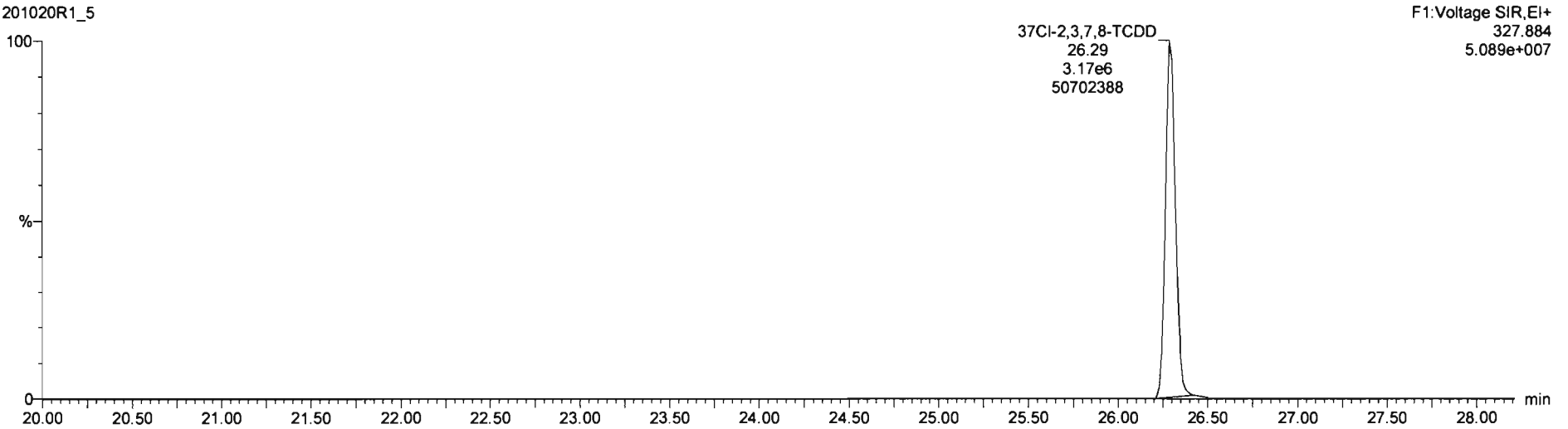
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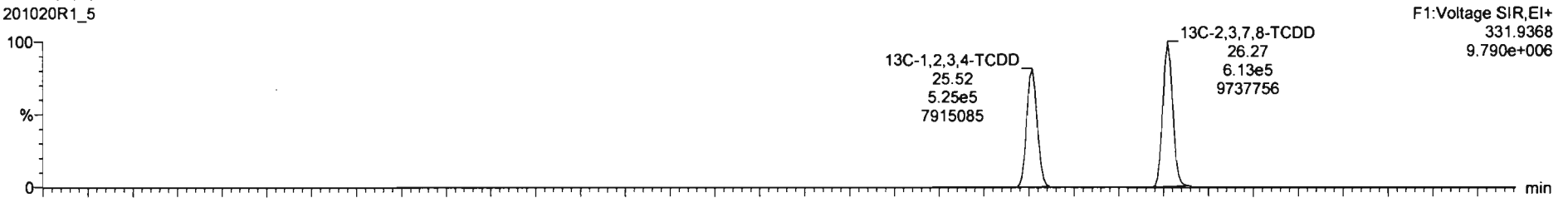
**37Cl-2,3,7,8-TCDD**

201020R1\_5

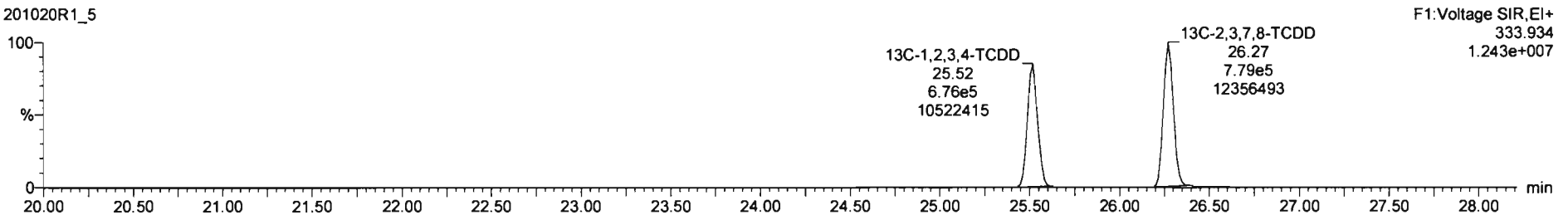


**13C-1,2,3,4-TCDD**

201020R1\_5



201020R1\_5



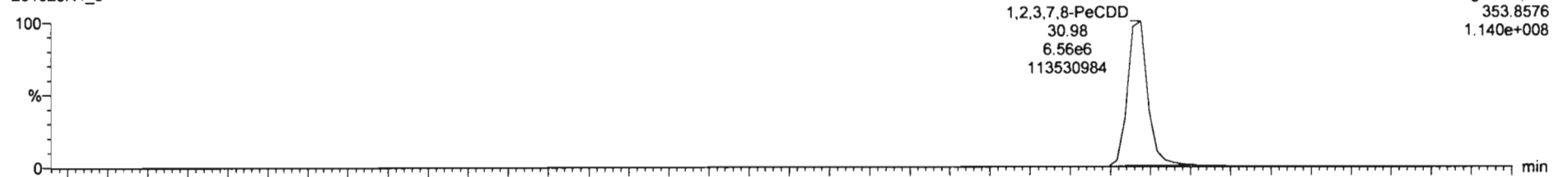
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

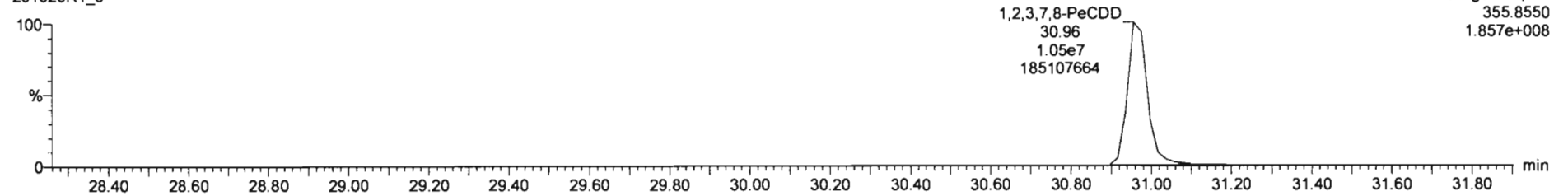
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**1,2,3,7,8-PeCDD**

201020R1\_5

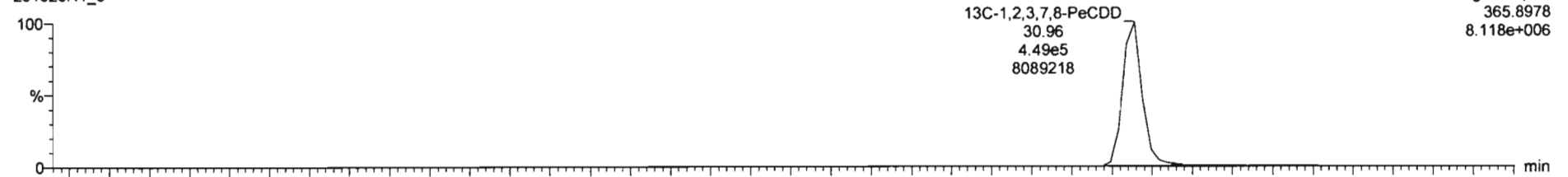


201020R1\_5

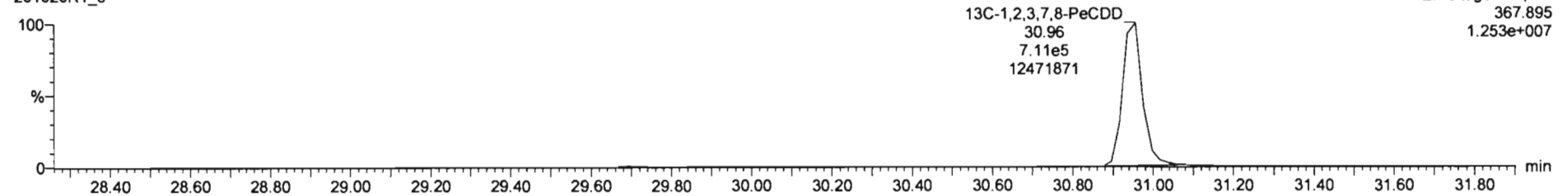


**13C-1,2,3,7,8-PeCDD**

201020R1\_5



201020R1\_5





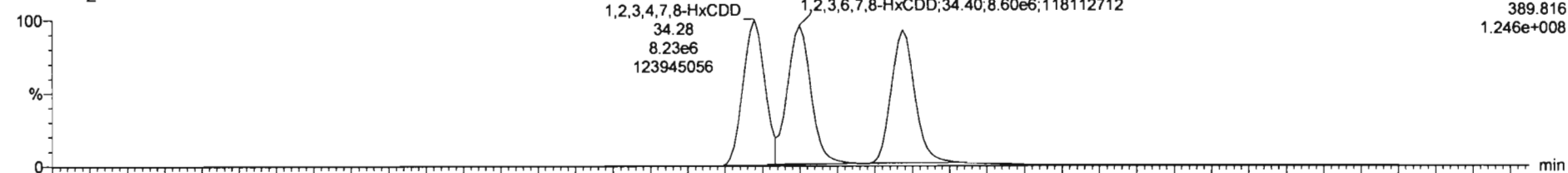
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_5, Date: 20-Oct-2020, Time: 12:16:56, ID: ST201020R1\_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107

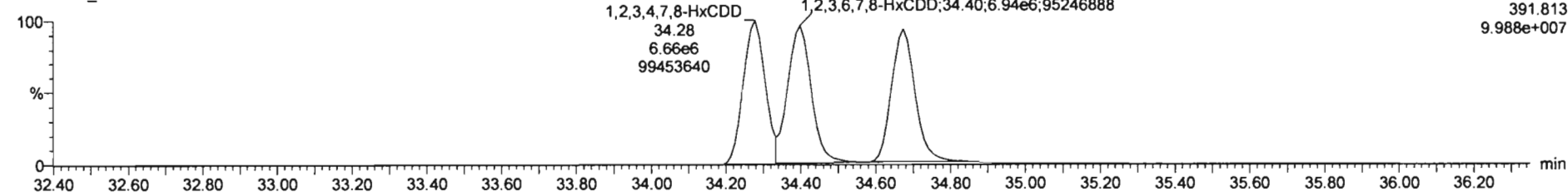
**1,2,3,4,7,8-HxCDD**

201020R1\_5



F3: Voltage SIR, EI+  
389.816  
1.246e+008

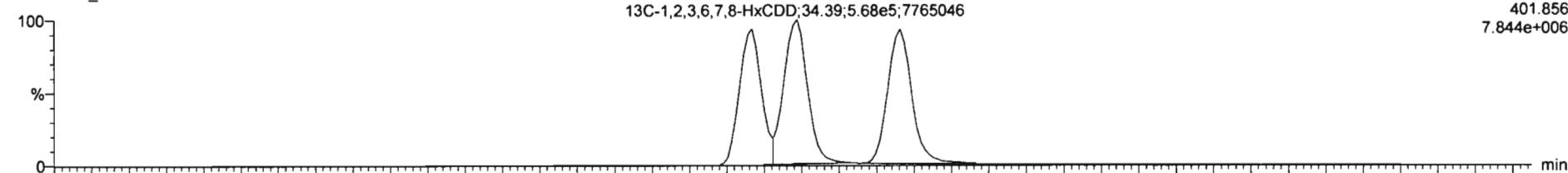
201020R1\_5



F3: Voltage SIR, EI+  
391.813  
9.988e+007

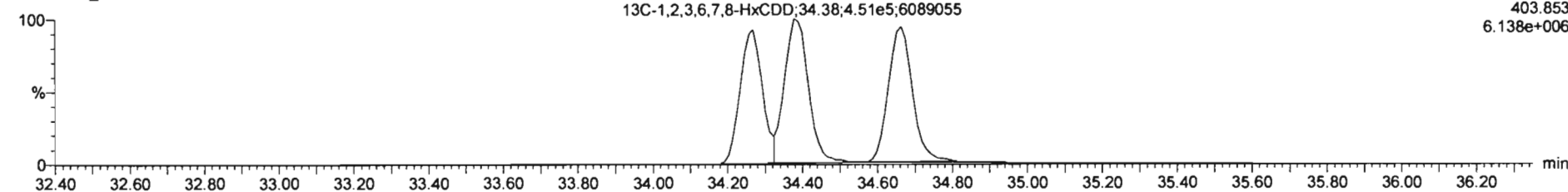
**13C-1,2,3,4,7,8-HxCDD**

201020R1\_5

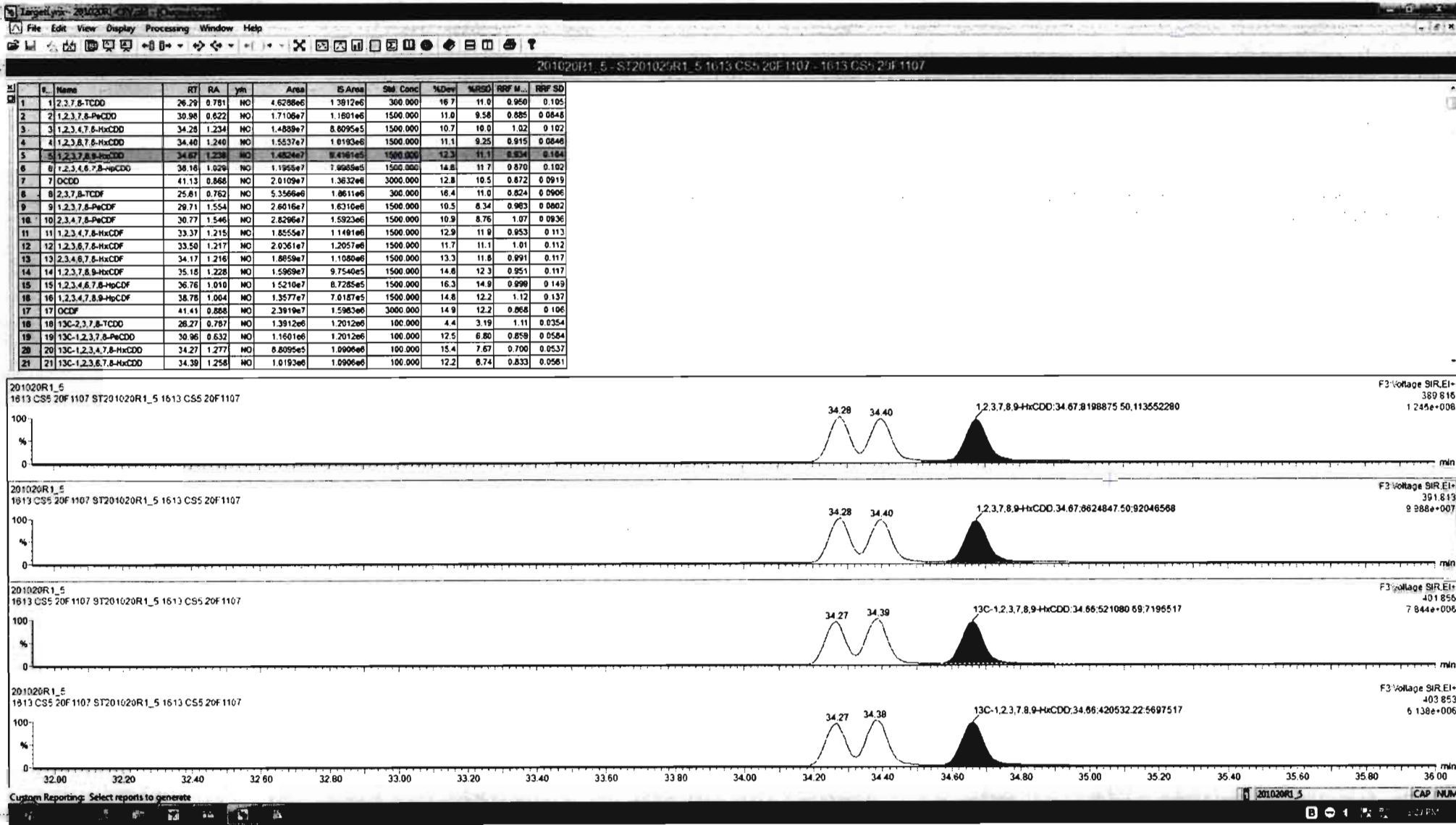


F3: Voltage SIR, EI+  
401.856  
7.844e+006

201020R1\_5



F3: Voltage SIR, EI+  
403.853  
6.138e+006



Dataset: Untitled

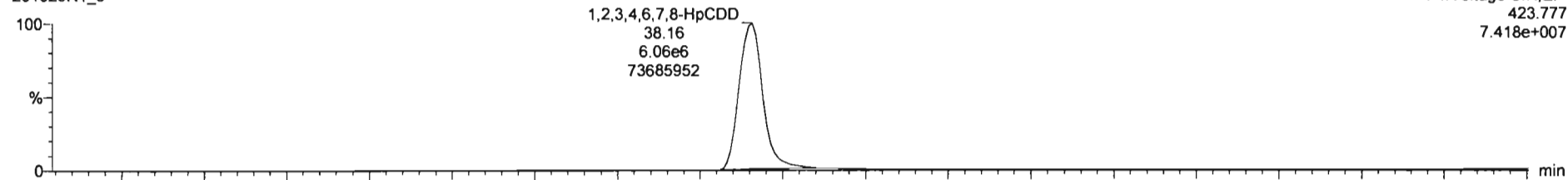
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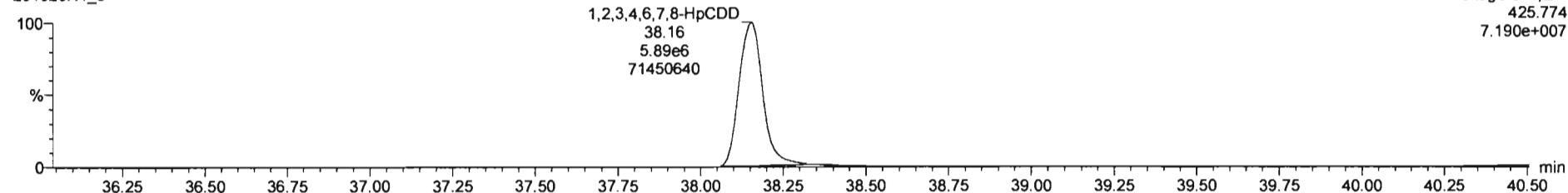
Name: 201020R1\_5, Date: 20-Oct-2020, Time: 12:16:56, ID: ST201020R1\_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107

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

201020R1\_5

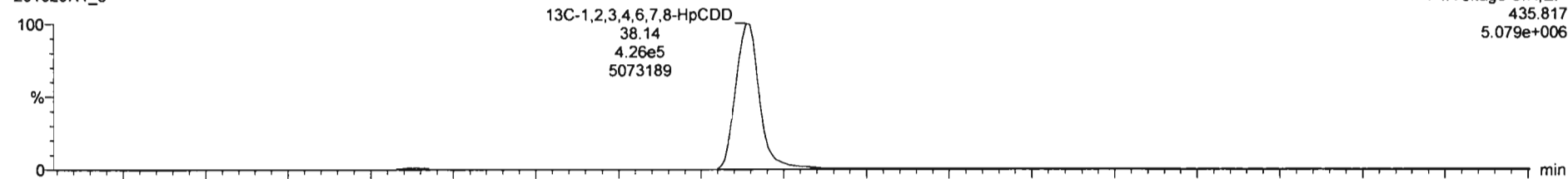


201020R1\_5

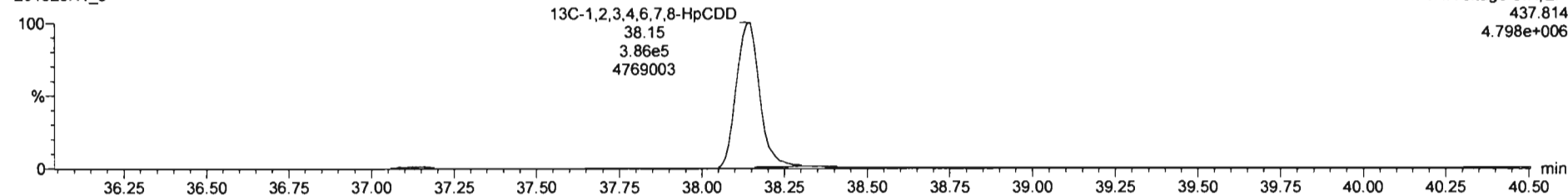


**13C-1,2,3,4,6,7,8-HpCDD**

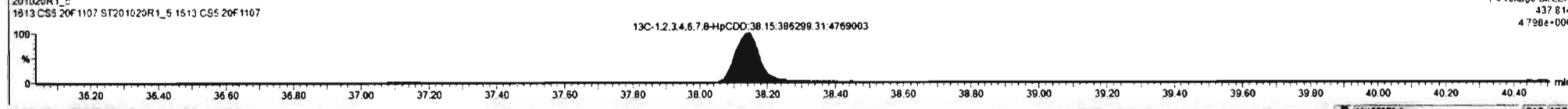
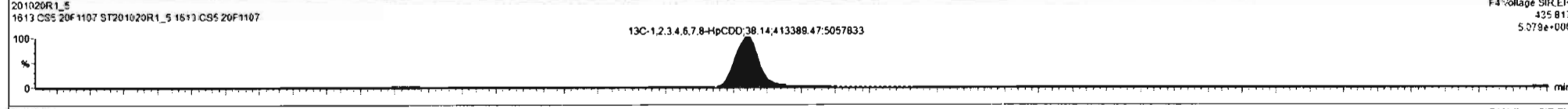
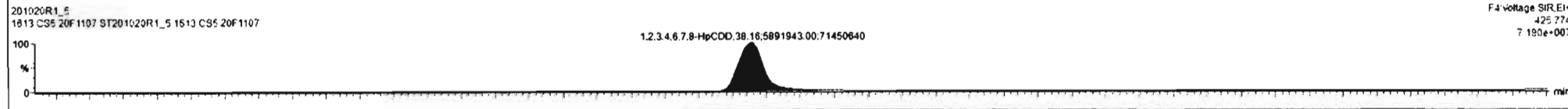
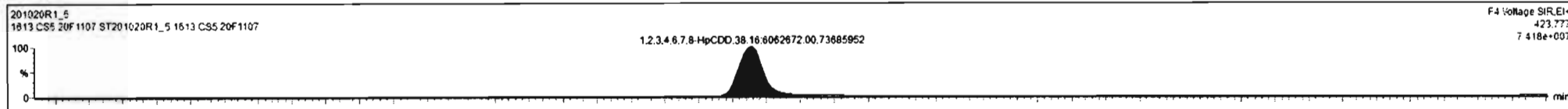
201020R1\_5



201020R1\_5



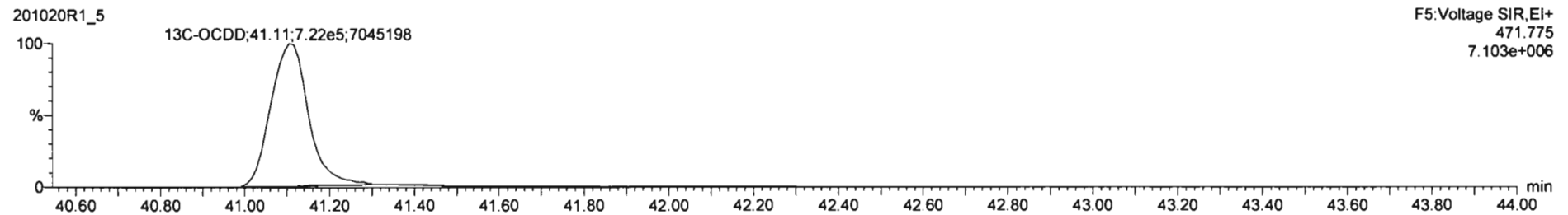
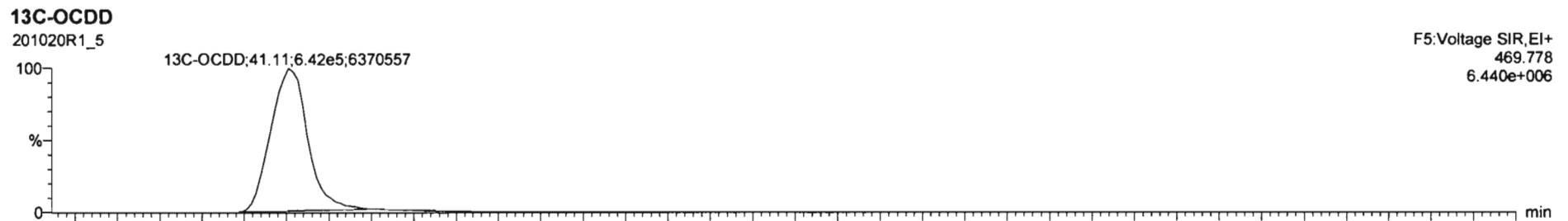
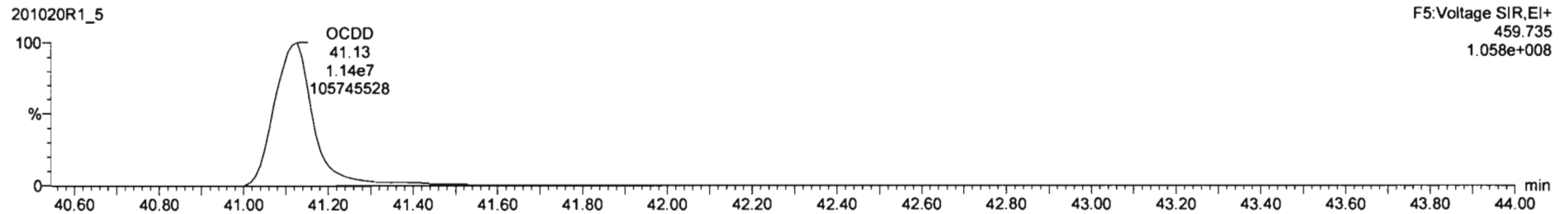
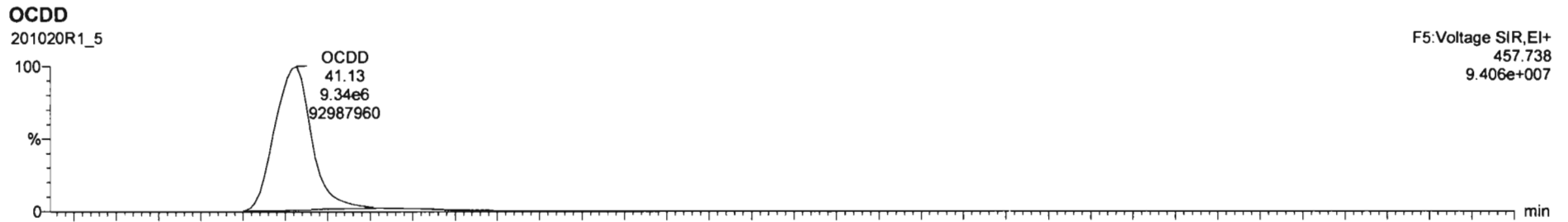
#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF W.	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.781	NO	4.6288e6	1.3912e6	300.000	16.7	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.98	0.622	NO	1.7108e7	1.1801e6	1500.000	11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.234	NO	1.4888e7	8.8095e5	1500.000	10.7	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.40	1.240	NO	1.5537e7	1.0193e6	1500.000	11.1	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.238	NO	1.4824e7	9.4161e5	1500.000	12.3	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.18	1.029	NO	1.1925e7	7.8998e5	1500.000	14.8	11.7	0.870	0.102
7	OCDD	41.13	0.868	NO	2.0109e7	1.3832e6	3000.000	12.8	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.762	NO	5.3566e6	1.8611e6	300.000	16.4	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.554	NO	2.6018e7	1.6310e6	1500.000	10.5	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.77	1.546	NO	2.8206e7	1.5923e6	1500.000	10.9	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.215	NO	1.8555e7	1.1491e6	1500.000	12.9	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.217	NO	2.0361e7	1.2057e6	1500.000	11.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.17	1.216	NO	1.8659e7	1.1080e6	1500.000	13.3	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.228	NO	1.5969e7	9.7540e5	1500.000	14.8	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.010	NO	1.5210e7	8.7285e5	1500.000	16.3	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.78	1.004	NO	1.3577e7	7.0187e5	1500.000	14.8	12.2	1.12	0.137
17	OCDF	41.41	0.868	NO	2.3919e7	1.5983e6	3000.000	14.9	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.787	NO	1.3912e6	1.2012e6	100.000	4.4	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.96	0.632	NO	1.1601e6	1.2012e6	100.000	12.5	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.277	NO	8.8095e5	1.0906e6	100.000	15.4	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.258	NO	1.0193e6	1.0906e6	100.000	12.2	6.74	0.833	0.0561



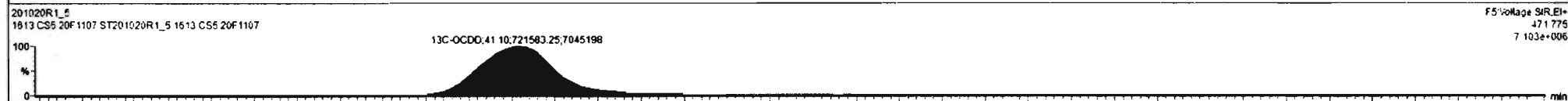
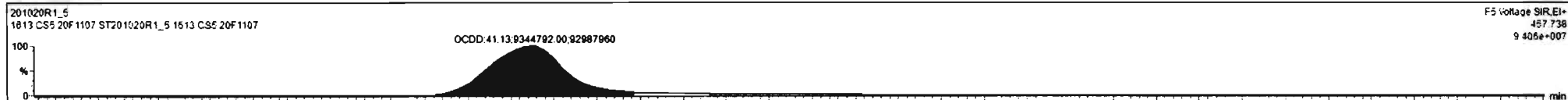
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1\_5, Date: 20-Oct-2020, Time: 12:16:56, ID: ST201020R1\_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107



#	Name	RT	RA	yth	Area	ISArea	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	28.29	0.781	NO	4.6288e6	1.3912e6	300.000	16.7	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.98	0.822	NO	1.7106e7	1.1801e6	1500.000	11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.234	NO	1.4889e7	8.8095e5	1500.000	10.7	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.40	1.240	NO	1.5537e7	1.0190e6	1500.000	11.1	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.67	1.238	NO	1.4824e7	9.4161e5	1500.000	12.3	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.629	NO	1.1955e7	7.8989e5	1500.000	14.8	11.7	0.870	0.102
7	OCDD	41.13	0.868	NO	2.8188e7	1.3652e6	3000.000	12.8	10.5	0.872	0.0918
8	2,3,7,8-TCDF	25.61	0.762	NO	5.3586e6	1.8611e6	300.000	16.4	11.0	0.824	0.0908
9	1,2,3,7,8-PeCDF	29.71	1.554	NO	2.6018e7	1.6310e6	1500.000	10.5	8.34	0.983	0.0802
10	2,3,4,7,8-PeCDF	30.77	1.546	NO	2.8296e7	1.5923e6	1500.000	10.9	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.215	NO	1.8555e7	1.1491e6	1500.000	12.9	11.9	0.853	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.217	NO	2.0361e7	1.2957e6	1500.000	11.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.17	1.216	NO	1.8959e7	1.1080e6	1500.000	13.3	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.228	NO	1.5989e7	9.7540e5	1500.000	14.8	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.010	NO	1.5210e7	8.7285e5	1500.000	16.3	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.78	1.004	NO	1.3577e7	7.0187e5	1500.000	14.8	12.2	1.12	0.137
17	OCDF	41.41	0.888	NO	2.5919e7	1.5983e6	3000.000	14.9	12.2	0.868	0.108
18	13C-2,3,7,8-TCDD	28.27	0.787	NO	1.3912e6	1.2012e6	100.000	4.4	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.98	0.632	NO	1.1601e6	1.2012e6	100.000	12.5	6.80	0.858	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.277	NO	8.8095e5	1.0906e6	100.000	15.4	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.258	NO	1.0193e6	1.0906e6	100.000	12.2	6.74	0.833	0.0561



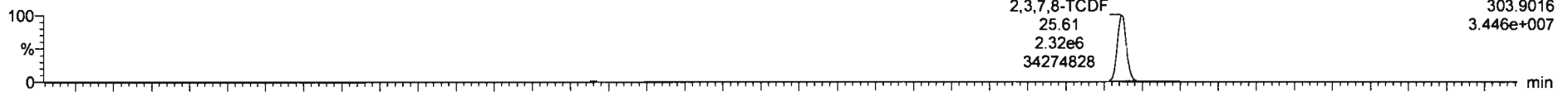
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

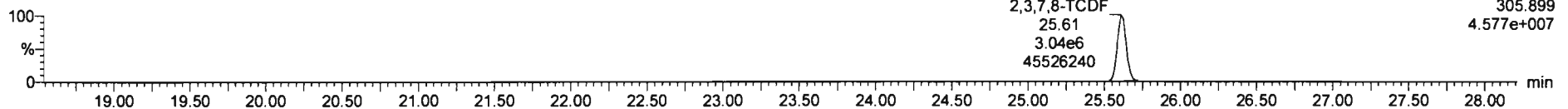
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**2,3,7,8-TCDF**

201020R1\_5

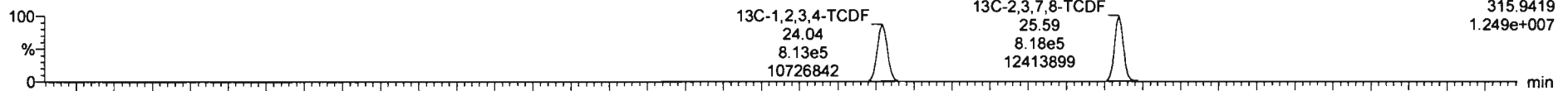


201020R1\_5

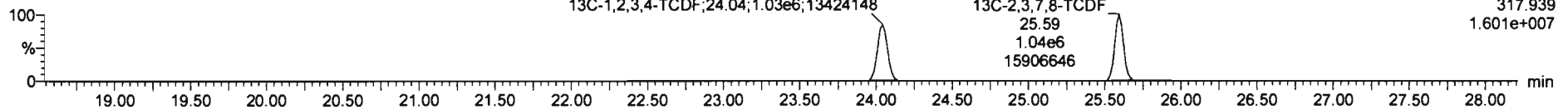


**13C-2,3,7,8-TCDF**

201020R1\_5

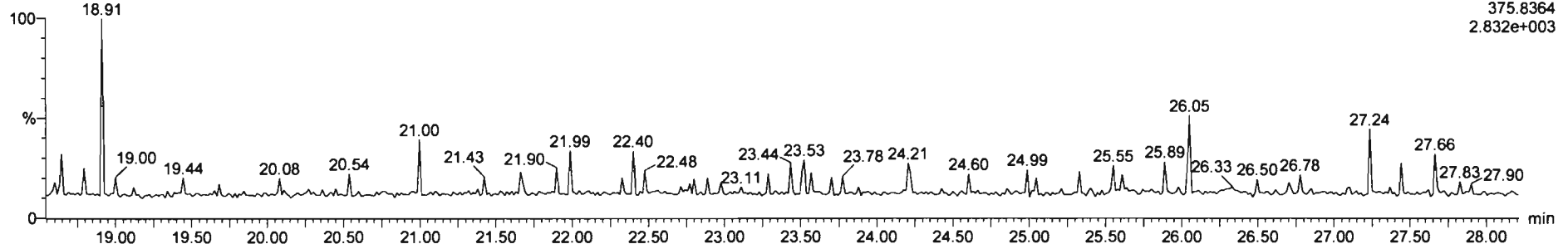


201020R1\_5



**DPE1**

201020R1\_5



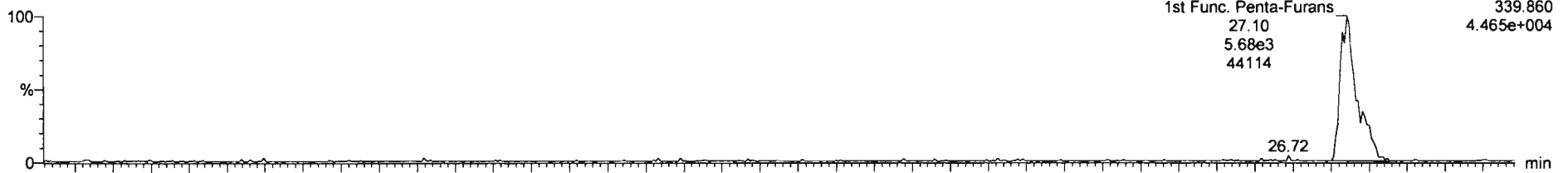
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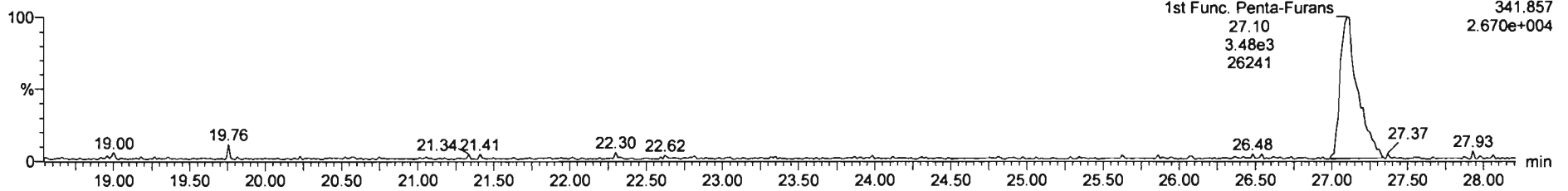
Name: 201020R1\_5, Date: 20-Oct-2020, Time: 12:16:56, ID: ST201020R1\_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107

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201020R1\_5

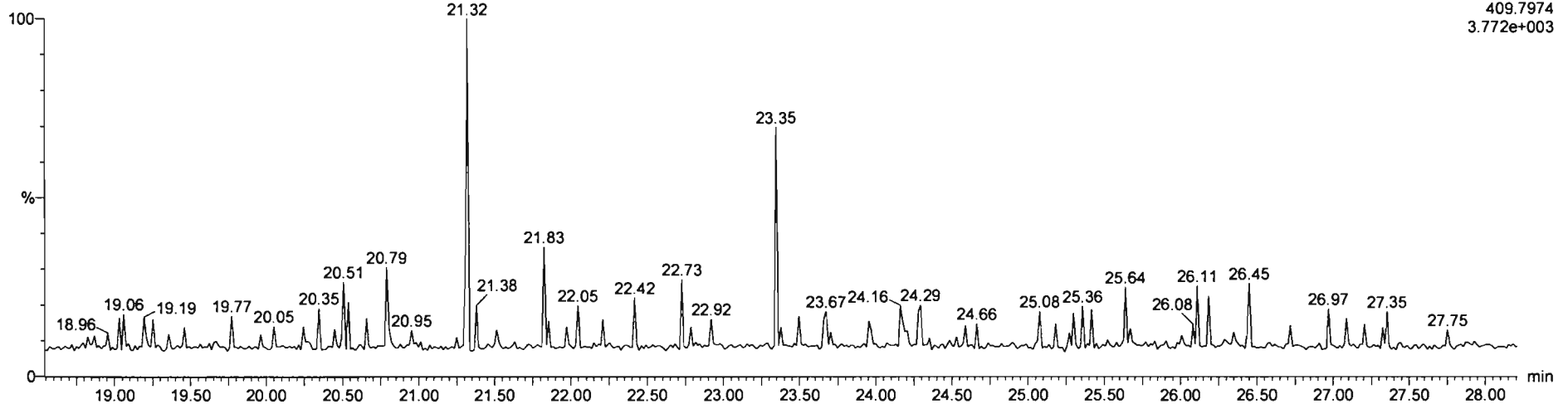


201020R1\_5



DPE6

201020R1\_5





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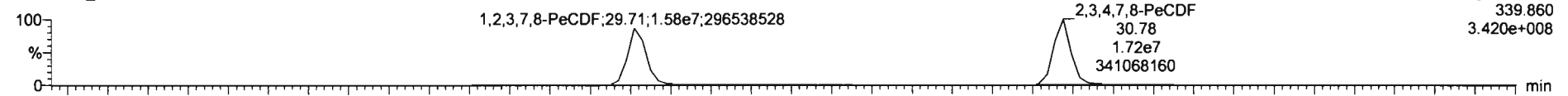
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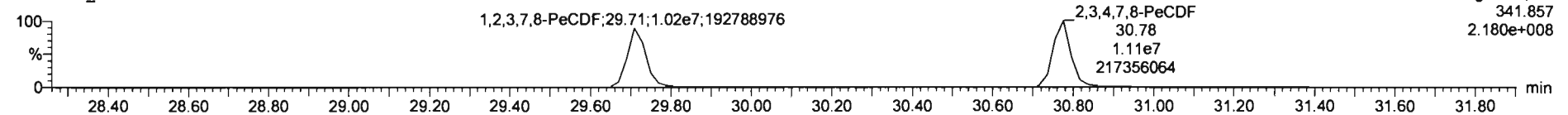
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**1,2,3,7,8-PeCDF**

201020R1\_5

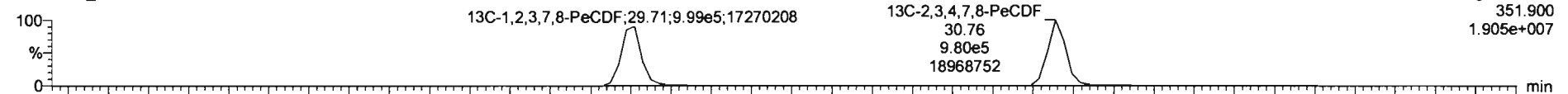


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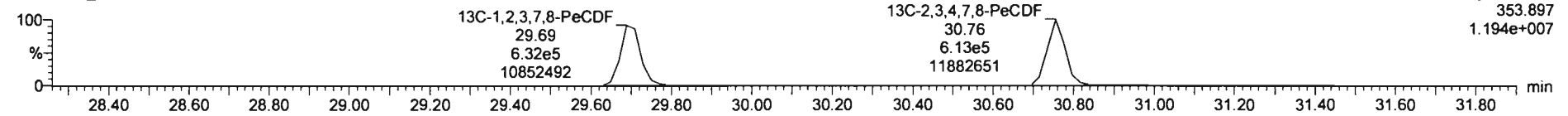


**13C-1,2,3,7,8-PeCDF**

201020R1\_5

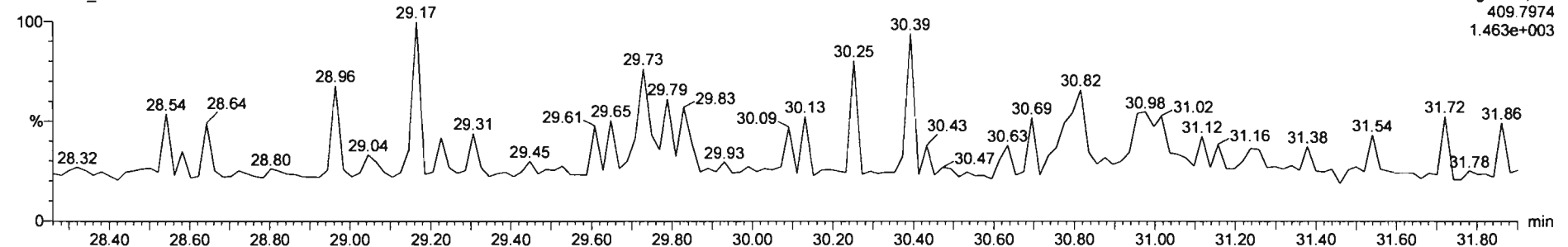


201020R1\_5



**DPE2**

201020R1\_5



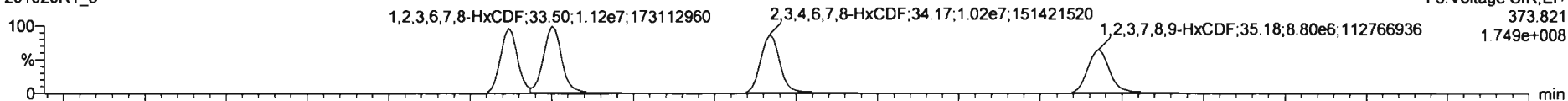
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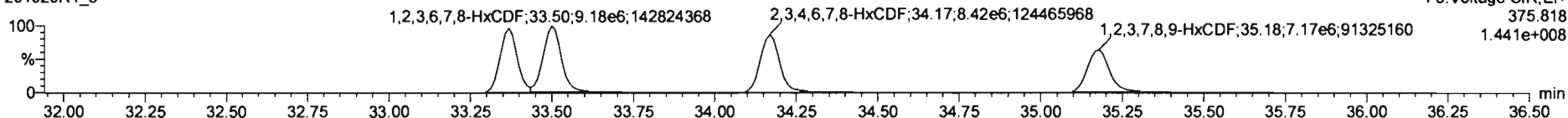
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**1,2,3,4,7,8-HxCDF**

201020R1\_5

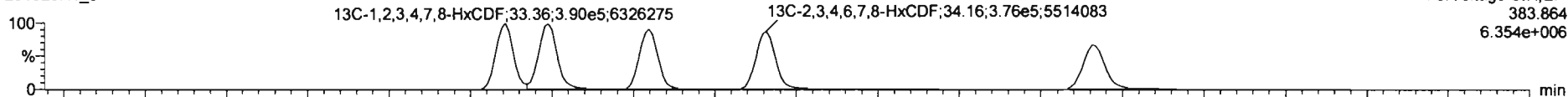


201020R1\_5

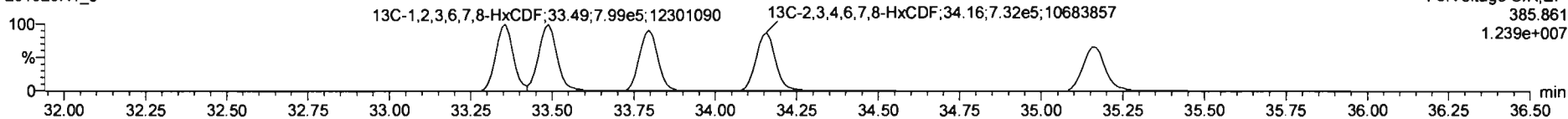


**13C-1,2,3,4,7,8-HxCDF**

201020R1\_5

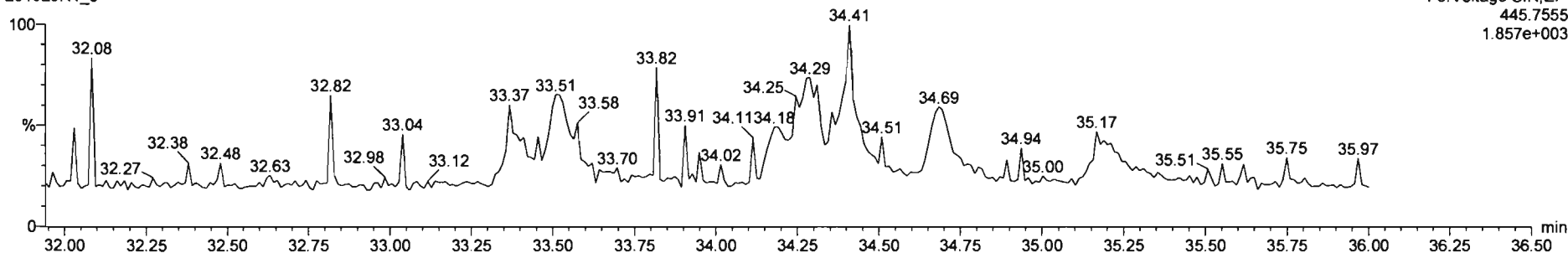


201020R1\_5



**DPE3**

201020R1\_5



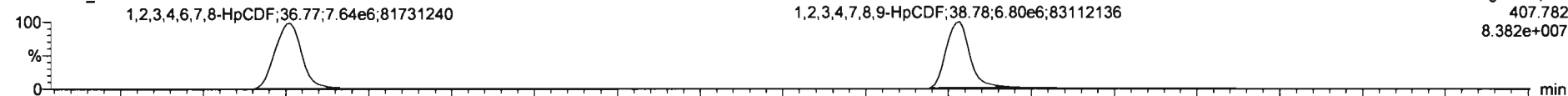
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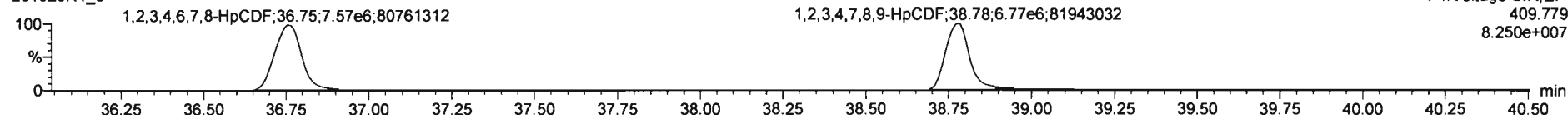
Name: 201020R1\_5, Date: 20-Oct-2020, Time: 12:16:56, ID: ST201020R1\_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107

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

201020R1\_5

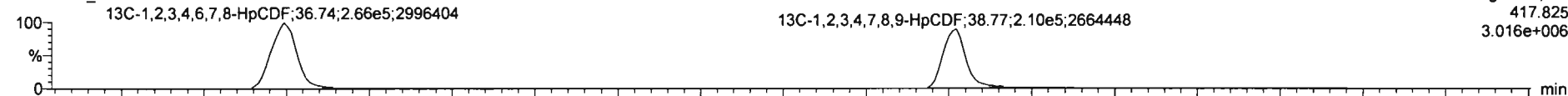


201020R1\_5

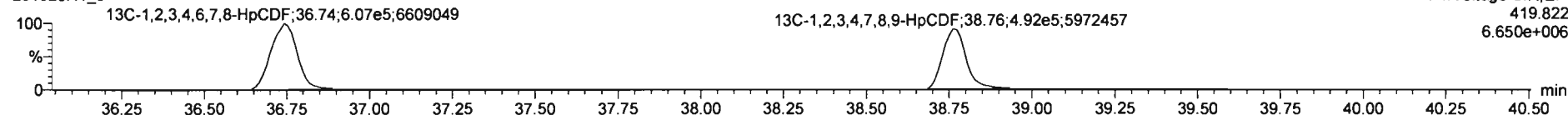


**13C-1,2,3,4,6,7,8-HpCDF**

201020R1\_5

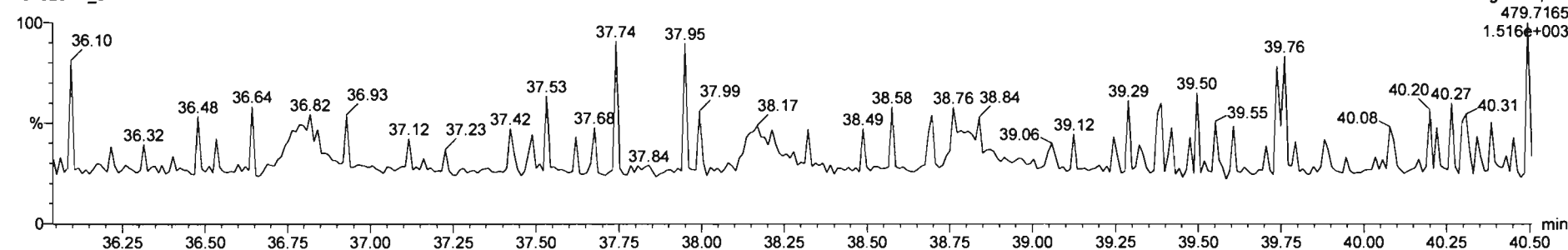


201020R1\_5



**DPE4**

201020R1\_5



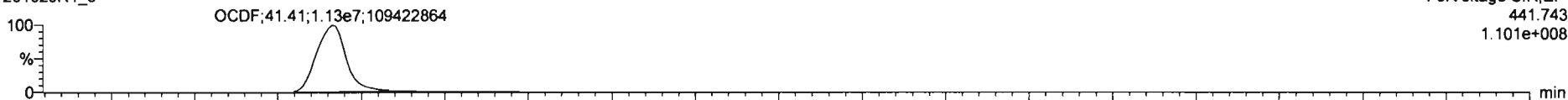
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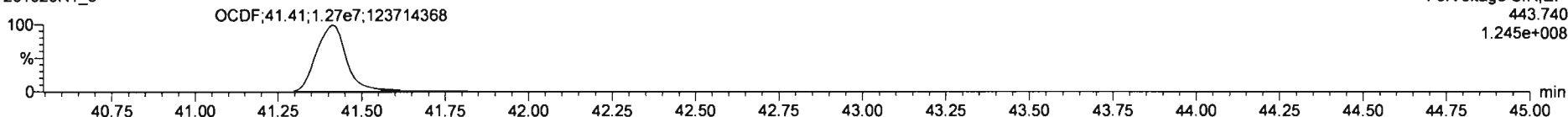
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**OCDF**

201020R1\_5

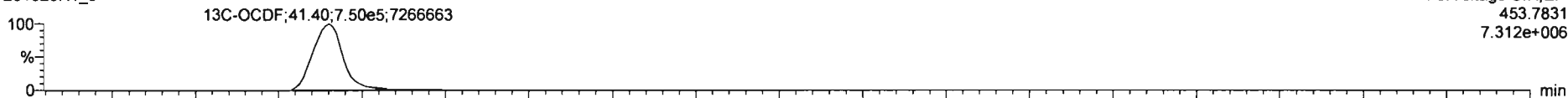


201020R1\_5

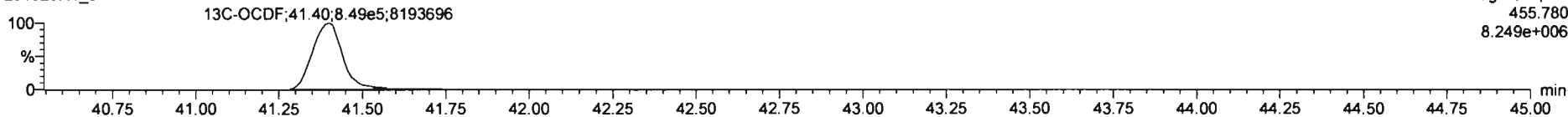


**13C-OCDF**

201020R1\_5

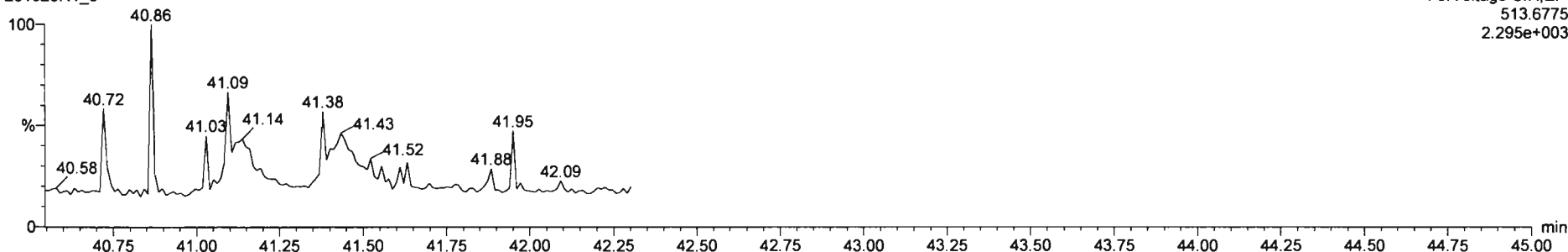


201020R1\_5



**DPE5**

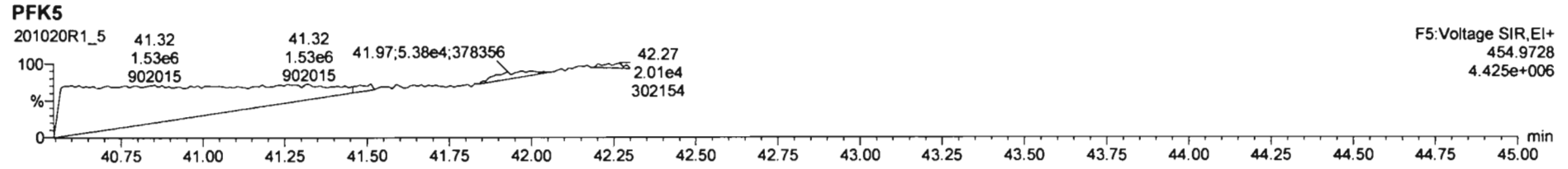
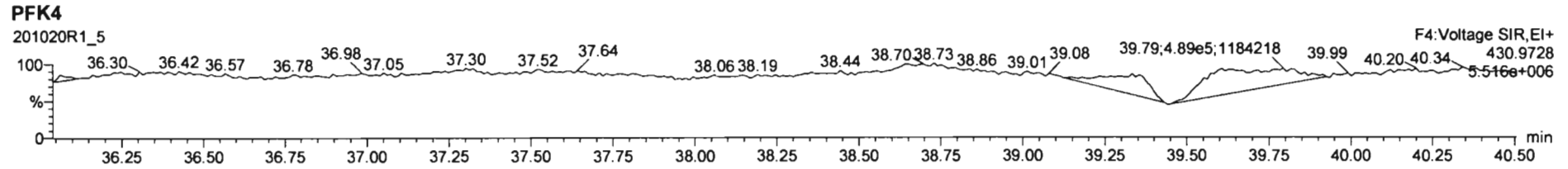
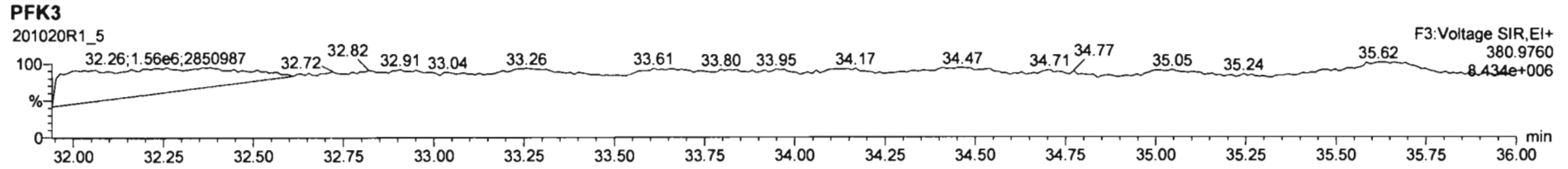
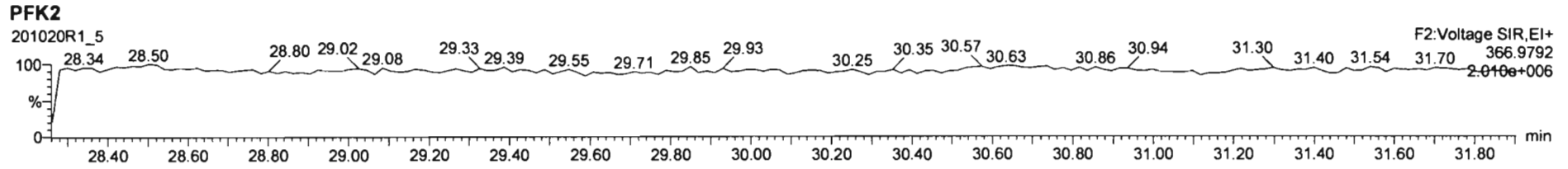
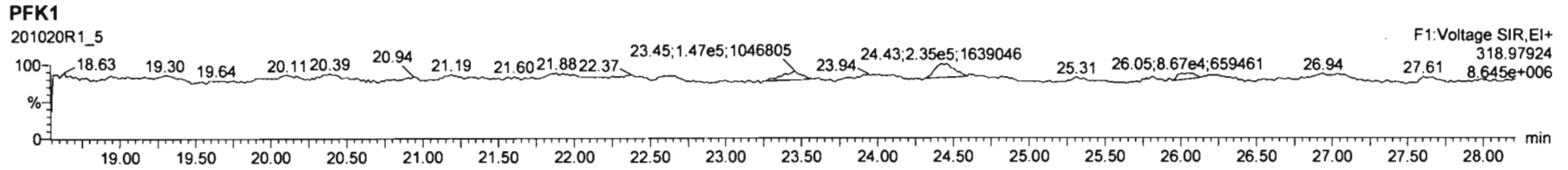
201020R1\_5



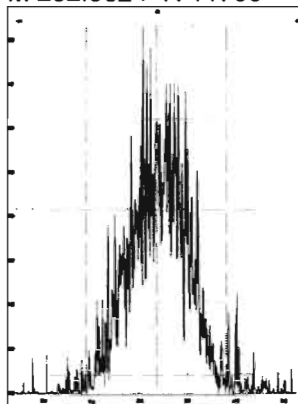
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

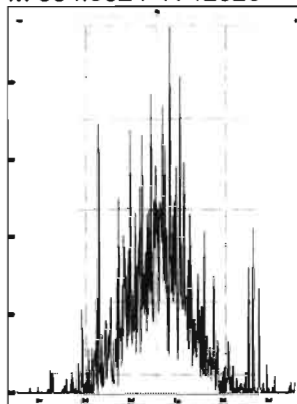
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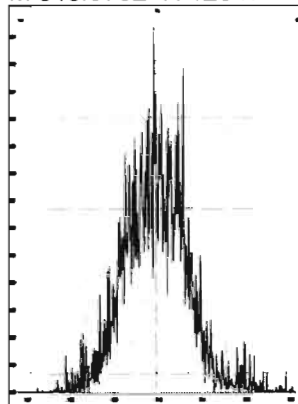
M 292.9824 R 11788



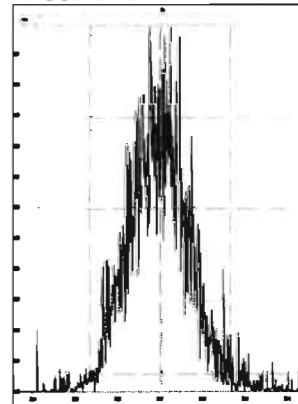
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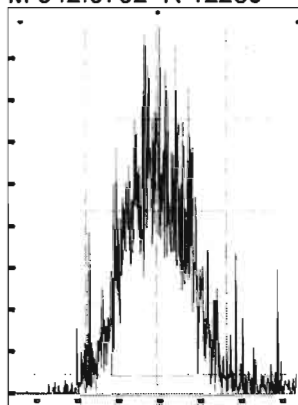
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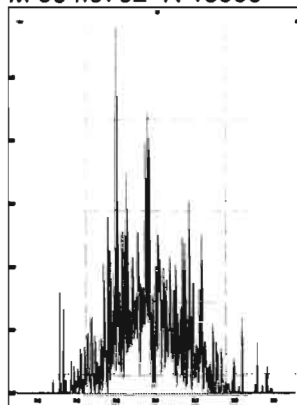
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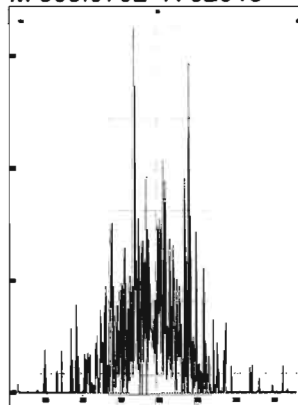
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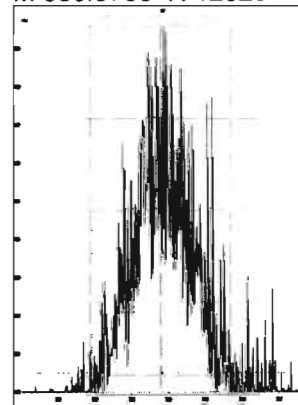
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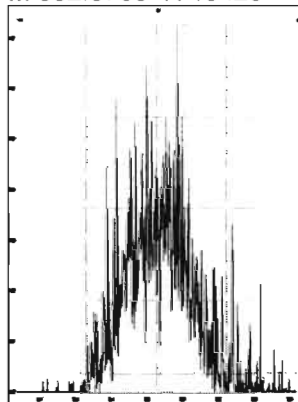
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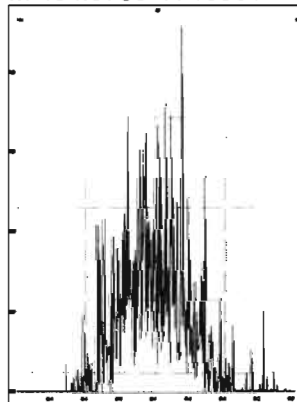
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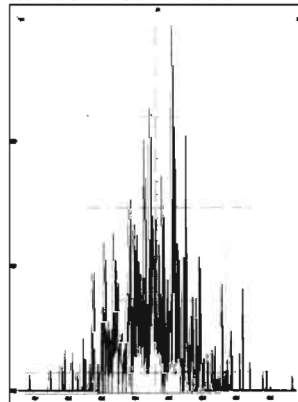
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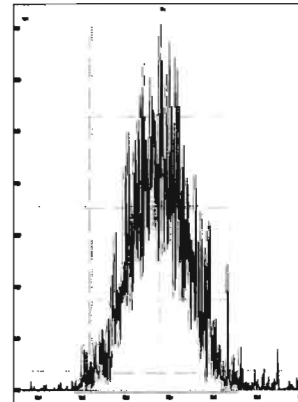
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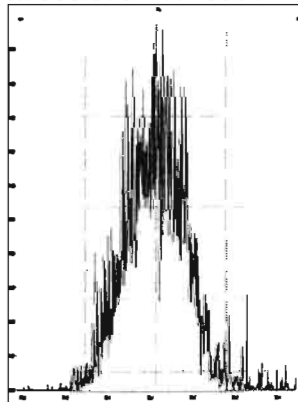
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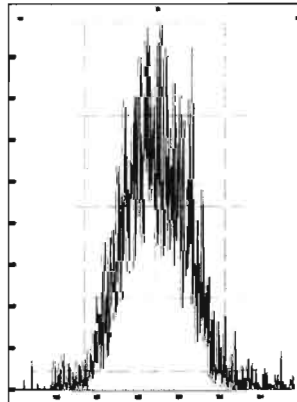
M 318.9792 R 13263



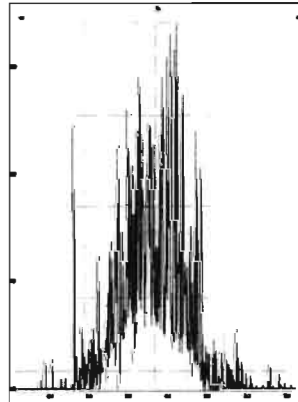
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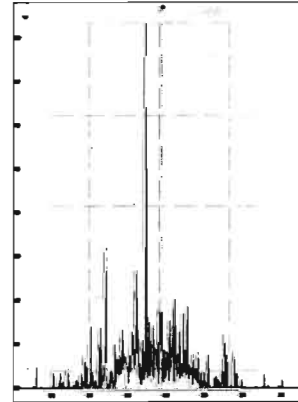
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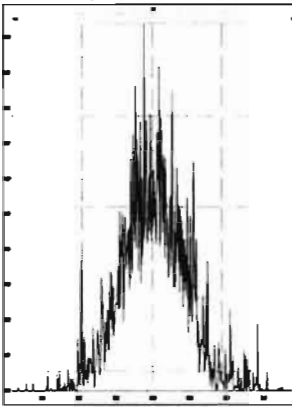


M 366.9792 R 28277

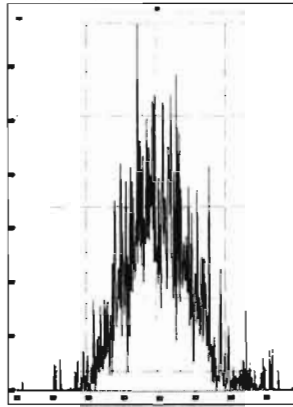


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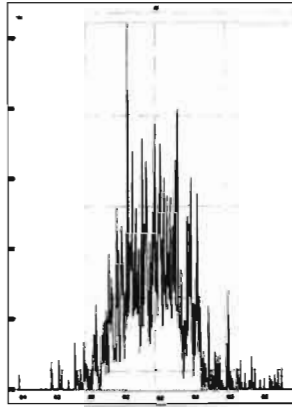
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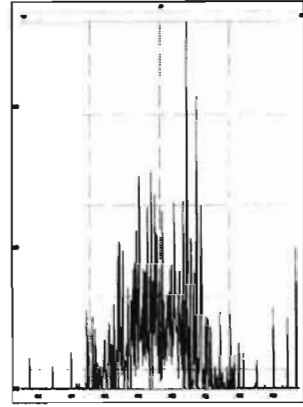
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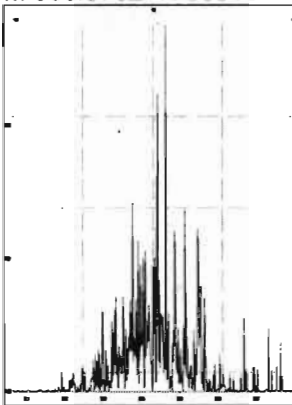
M 404.9760 R 15943



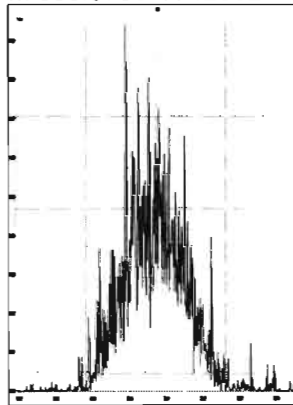
M 416.9760 R 201718



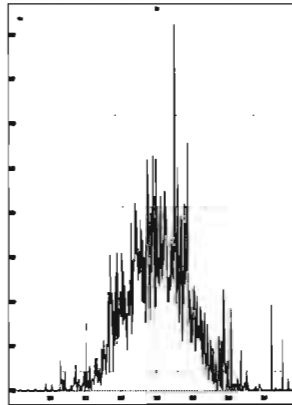
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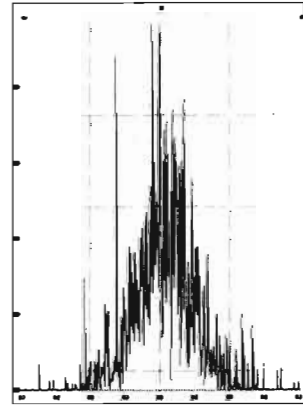
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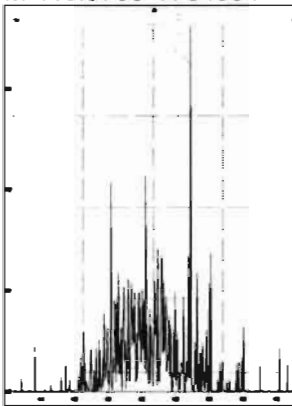
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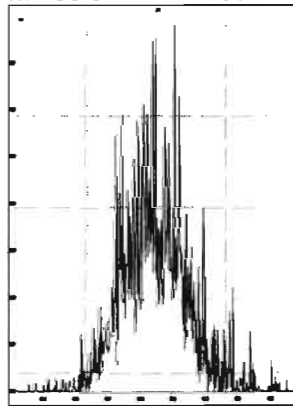
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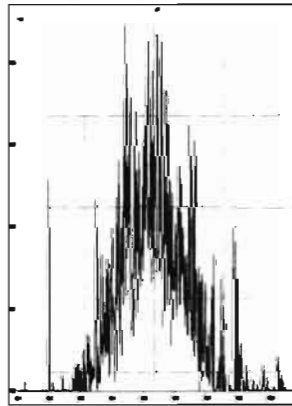
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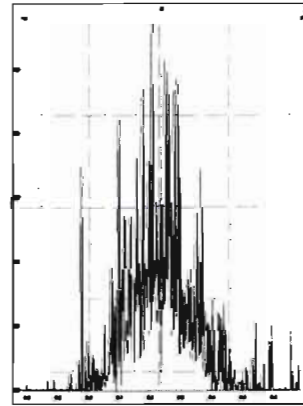
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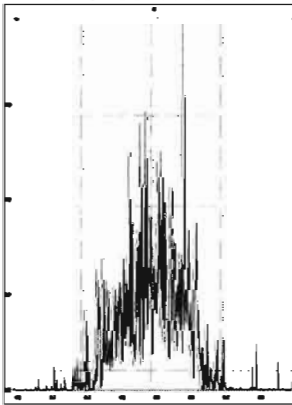
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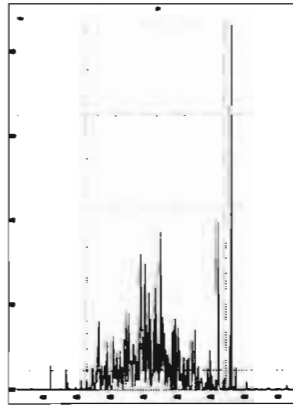
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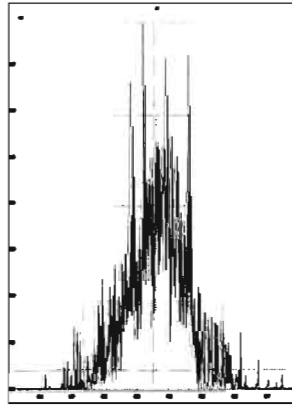
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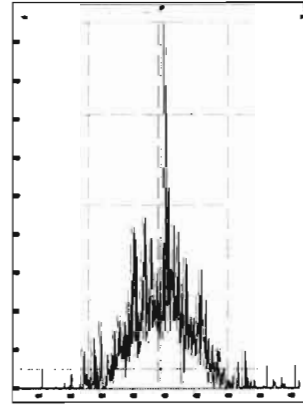
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M 430.9728 R 14329

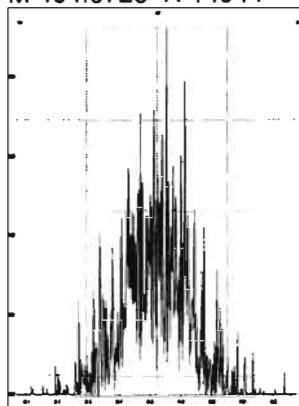


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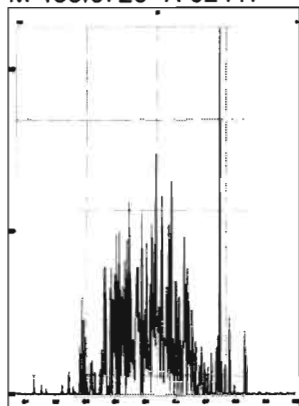


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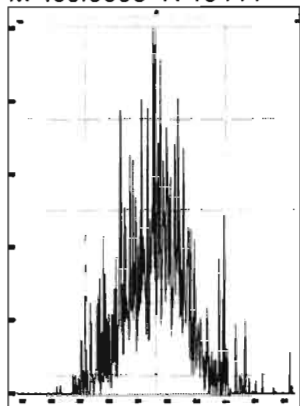
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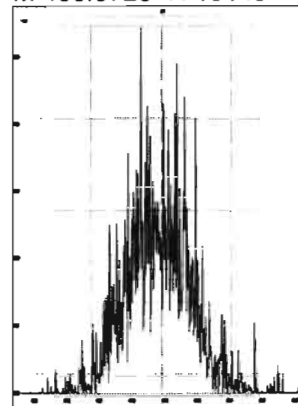
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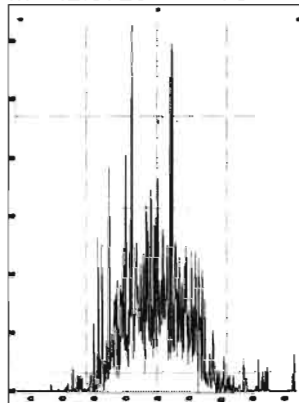
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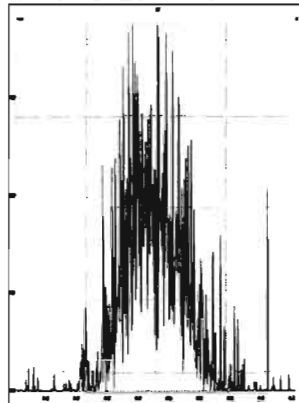
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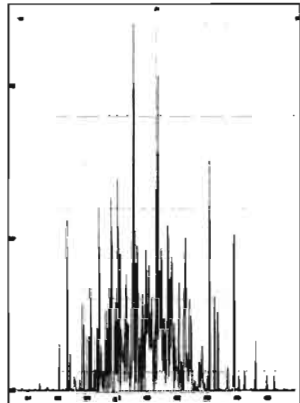
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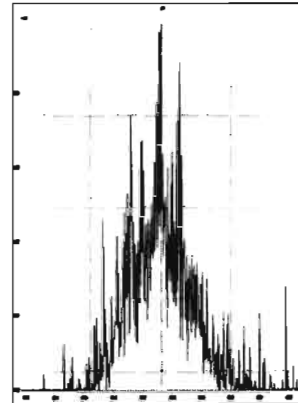
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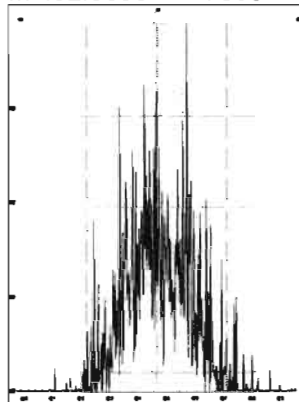
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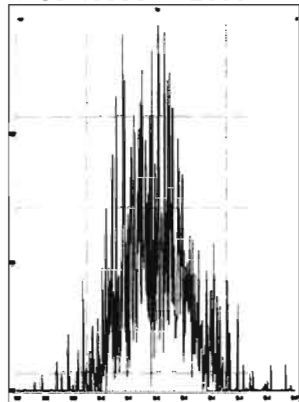
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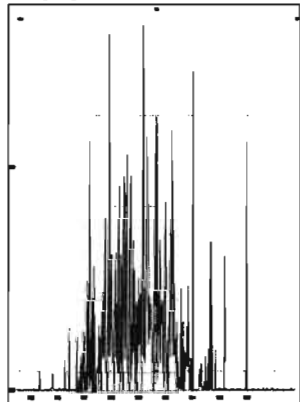
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M 504.9696 R 25584



M 516.9697 R 107142





Dataset: U:\VG12.PRO\Results\201020R1\201020R1-8.qld

Last Altered: Tuesday, October 20, 2020 15:15:37 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:16:22 Pacific Daylight Time

GRB 10/20/2020  
HN W/20/2020

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Calibration: U:\VG12.PRO\CurveDB\vbDIOXIN\_1613vg12-10-20-20.cdb 20 Oct 2020 14:36:10

Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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1	1 2,3,7,8-TCDD	1.37e5	1.40e6	0.74	NO	0.950	26.30	26.30	NO	1.001	1.001	10.363	104	NO
2	2 1,2,3,7,8-PeCDD	4.97e5	1.07e6	0.62	NO	0.885	30.97	30.96	NO	1.000	1.000	52.349	105	NO
3	3 1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.30	NO	1.02	34.31	34.29	NO	1.001	1.000	53.693	107	NO
4	4 1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.21	NO	0.915	34.40	34.41	NO	1.000	1.001	55.421	111	NO
5	5 1,2,3,7,8,9-HxCDD	4.02e5	8.09e5	1.25	NO	0.934	34.67	34.69	NO	1.000	1.001	53.130	106	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.08e5	6.75e5	1.02	NO	0.870	38.15	38.17	NO	1.000	1.001	52.362	105	NO
7	7 OCDD	5.24e5	1.11e6	0.87	NO	0.872	41.11	41.12	NO	1.000	1.000	108.80	109	NO
8	8 2,3,7,8-TCDF	1.63e5	1.90e6	0.75	NO	0.824	25.60	25.62	NO	1.000	1.001	10.438	104	NO
9	9 1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.57	NO	0.963	29.70	29.71	NO	1.000	1.001	50.613	101	NO
10	10 2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.58	NO	1.07	30.76	30.78	NO	1.000	1.001	54.945	110	NO
11	11 1,2,3,4,7,8-HxCDF	5.48e5	1.04e6	1.22	NO	0.953	33.36	33.38	NO	1.000	1.001	55.545	111	NO
12	12 1,2,3,6,7,8-HxCDF	6.04e5	1.08e6	1.22	NO	1.01	33.50	33.51	NO	1.000	1.000	55.330	111	NO
13	13 2,3,4,6,7,8-HxCDF	5.48e5	1.01e6	1.23	NO	0.991	34.16	34.18	NO	1.000	1.001	54.856	110	NO
14	14 1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.23	NO	0.951	35.17	35.18	NO	1.000	1.000	54.262	109	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.01	NO	0.999	36.76	36.77	NO	1.000	1.000	54.767	110	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.47e5	6.01e5	1.01	NO	1.12	38.77	38.78	NO	1.000	1.000	51.464	103	NO
17	17 OCDF	6.03e5	1.28e6	0.88	NO	0.868	41.41	41.41	NO	1.000	1.000	108.21	108	NO
18	18 13C-2,3,7,8-TCDD	1.40e6	1.26e6	0.78	NO	1.11	26.27	26.27	NO	1.029	1.030	100.10	100	NO
19	19 13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.62	NO	0.859	30.91	30.96	NO	1.211	1.213	99.348	99.3	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.28	NO	0.700	34.26	34.28	NO	1.013	1.014	97.536	97.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.90e5	1.11e6	1.26	NO	0.833	34.39	34.39	NO	1.017	1.017	96.285	96.3	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.09e5	1.11e6	1.26	NO	0.762	34.66	34.66	NO	1.025	1.025	95.612	95.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.75e5	1.11e6	1.05	NO	0.650	38.10	38.15	NO	1.127	1.128	93.625	93.6	NO
24	24 13C-OCDD	1.11e6	1.11e6	0.89	NO	0.539	41.04	41.11	NO	1.214	1.216	184.54	92.3	NO
25	25 13C-2,3,7,8-TCDF	1.90e6	1.96e6	0.78	NO	0.981	25.60	25.59	NO	1.003	1.003	98.983	99.0	NO
26	26 13C-1,2,3,7,8-PeCDF	1.57e6	1.96e6	1.60	NO	0.792	29.66	29.69	NO	1.162	1.163	101.15	101	NO
27	27 13C-2,3,4,7,8-PeCDF	1.52e6	1.96e6	1.59	NO	0.778	30.72	30.76	NO	1.204	1.205	99.698	99.7	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.04e6	1.11e6	0.50	NO	0.954	33.36	33.36	NO	0.987	0.987	97.788	97.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.08e6	1.11e6	0.50	NO	1.01	33.50	33.50	NO	0.991	0.991	96.967	97.0	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.01e6	1.11e6	0.52	NO	0.921	34.16	34.16	NO	1.010	1.010	98.529	98.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.60e5	1.11e6	0.51	NO	0.803	35.16	35.17	NO	1.040	1.040	96.452	96.5	NO

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-8.qld

Last Altered: Tuesday, October 20, 2020 15:15:37 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:16:22 Pacific Daylight Time

Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

#	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	7.84e5	1.11e6	0.44	NO	0.735	36.72	36.75	NO	1.086	1.087	96.055	96.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.01e5	1.11e6	0.42	NO	0.568	38.71	38.77	NO	1.145	1.147	95.309	95.3	NO
34	34 13C-OCDF	1.28e6	1.11e6	0.89	NO	0.629	41.33	41.40	NO	1.222	1.225	183.63	91.8	NO
35	35 37Cl-2,3,7,8-TCDD	1.45e5	1.26e6			1.09	26.29	26.29	NO	1.030	1.030	10.596	106	NO
36	36 13C-1,2,3,4-TCDD	1.26e6	1.26e6	0.79	NO	1.00	25.59	25.52	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.96e6	1.96e6	0.80	NO	1.00	24.13	24.06	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.11e6	1.11e6	0.51	NO	1.00	33.84	33.81	NO	1.000	1.000	100.00	100	YES <sup>st</sup>

Dataset: Untitled

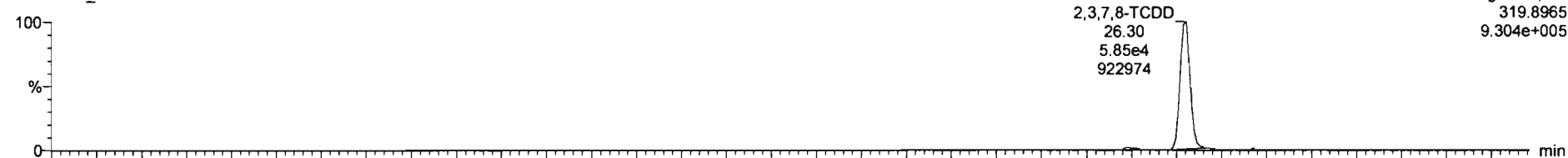
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 20 Oct 2020 10:47:39  
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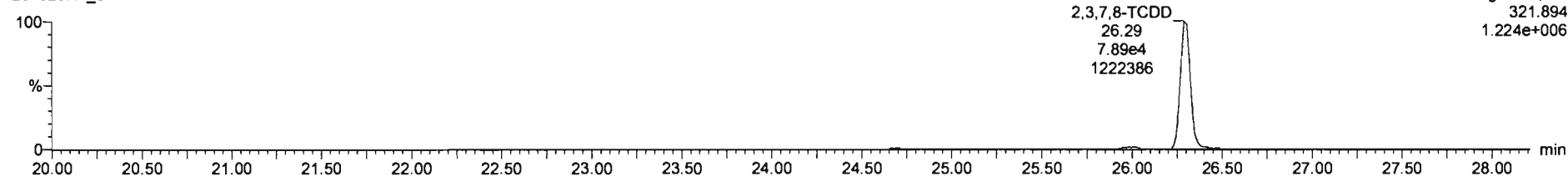
Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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

201020R1\_8

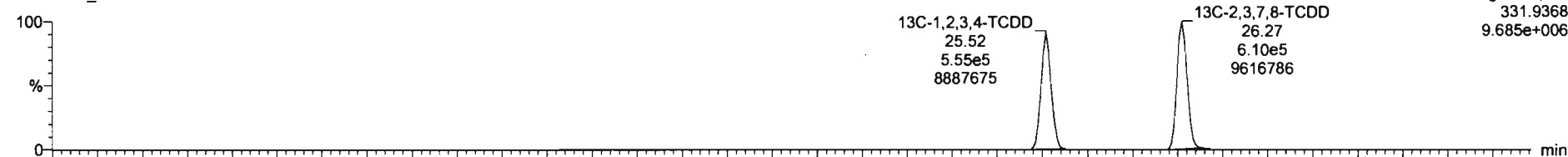


201020R1\_8

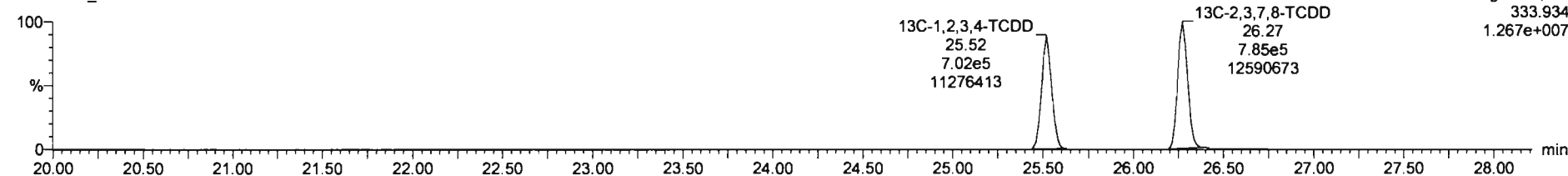


**13C-2,3,7,8-TCDD**

201020R1\_8



201020R1\_8



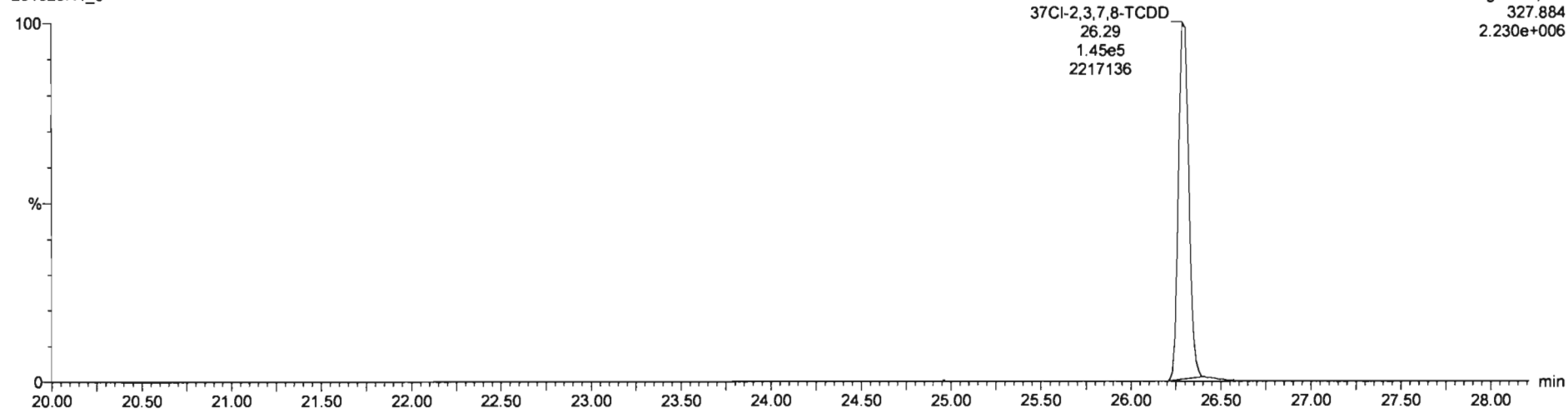
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Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

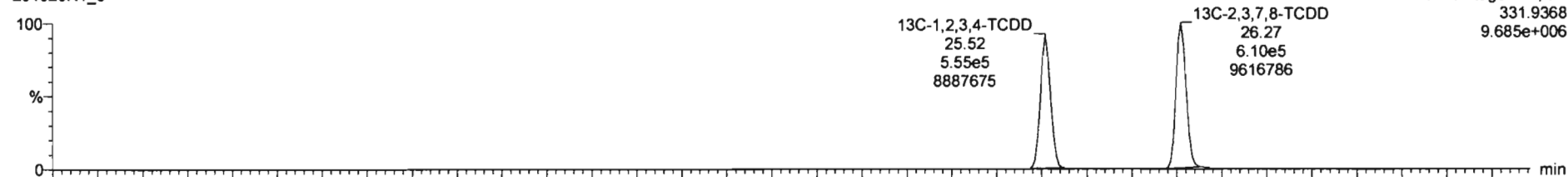
**37Cl-2,3,7,8-TCDD**

201020R1\_8

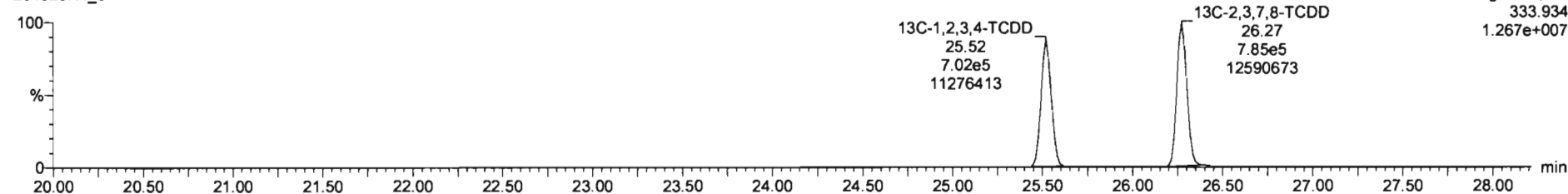


**13C-1,2,3,4-TCDD**

201020R1\_8



201020R1\_8



Dataset: Untitled

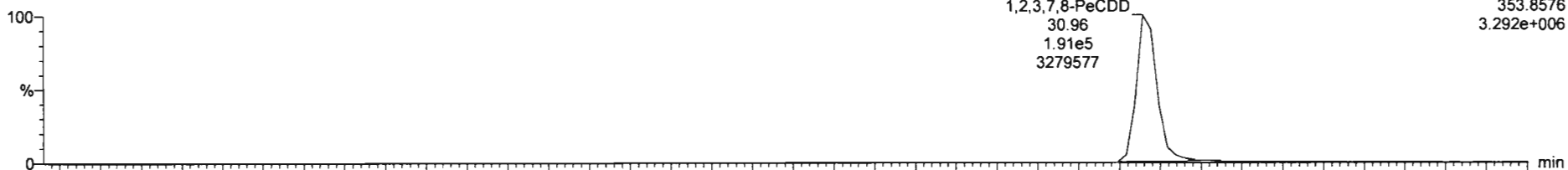
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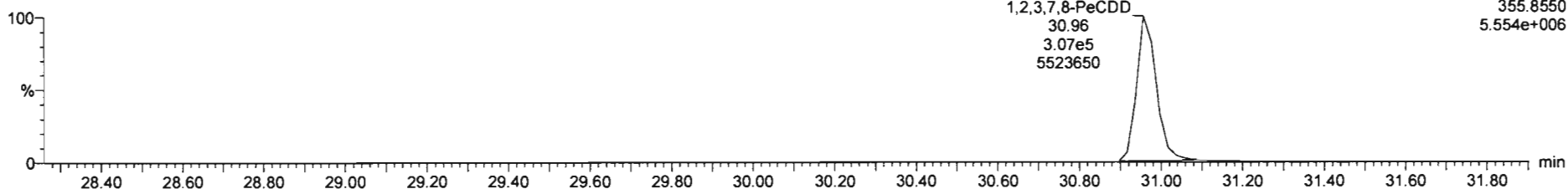
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**1,2,3,7,8-PeCDD**

201020R1\_8

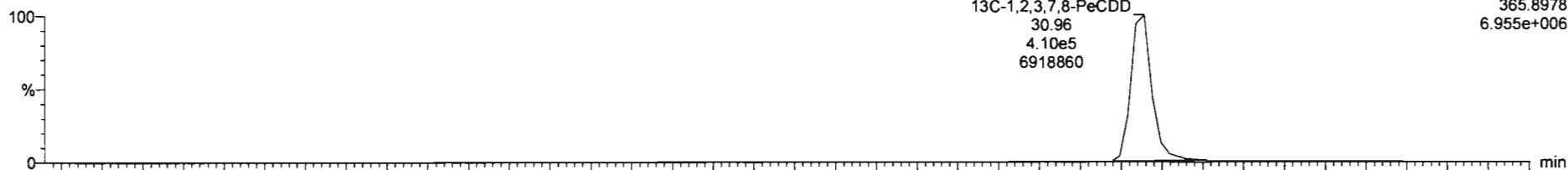


201020R1\_8

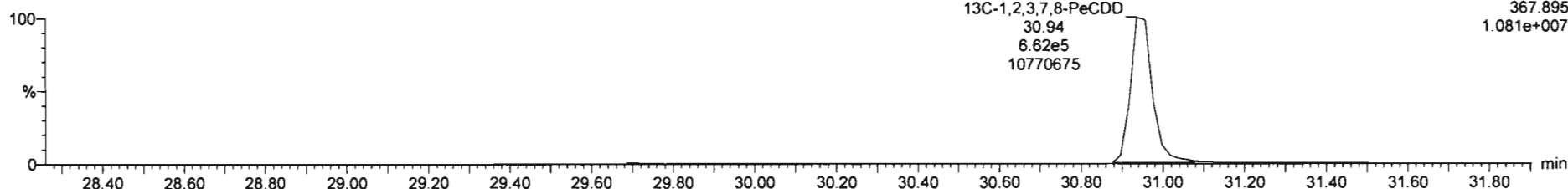


**13C-1,2,3,7,8-PeCDD**

201020R1\_8



201020R1\_8



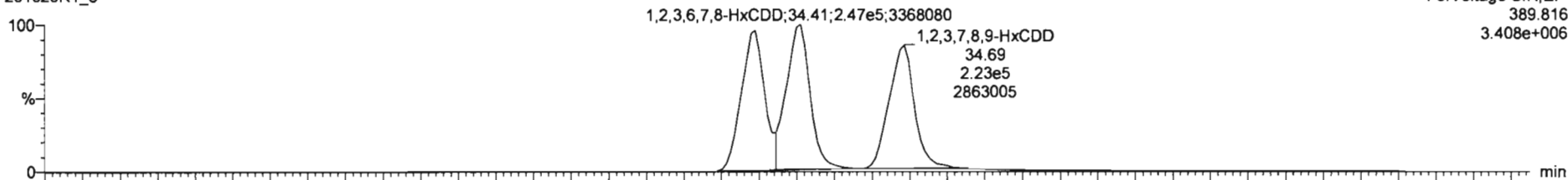
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

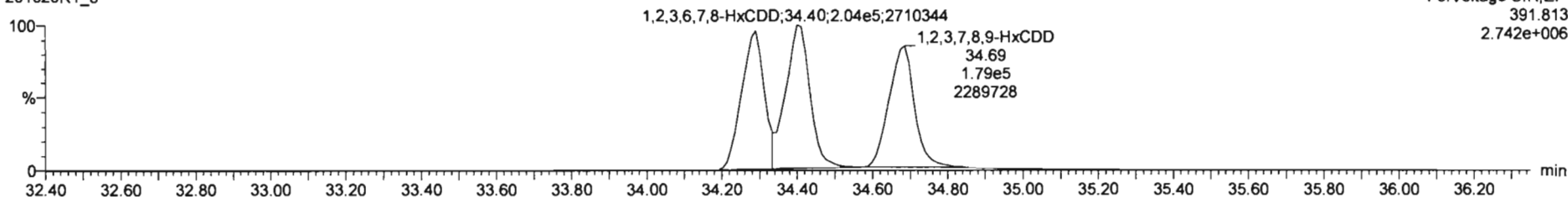
**1,2,3,4,7,8-HxCDD**

201020R1\_8



F3:Voltage SIR, EI+  
389.816  
3.408e+006

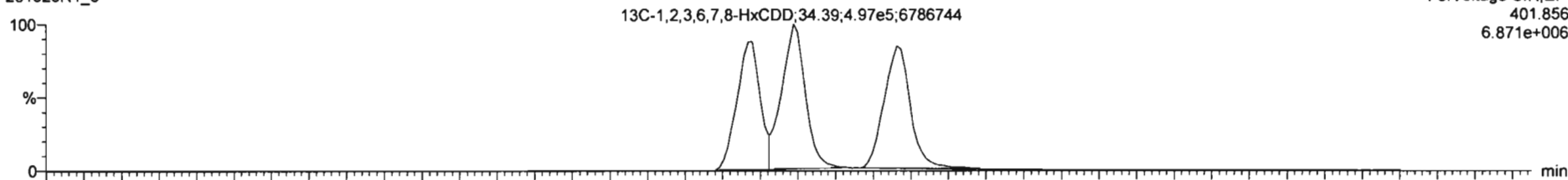
201020R1\_8



F3:Voltage SIR, EI+  
391.813  
2.742e+006

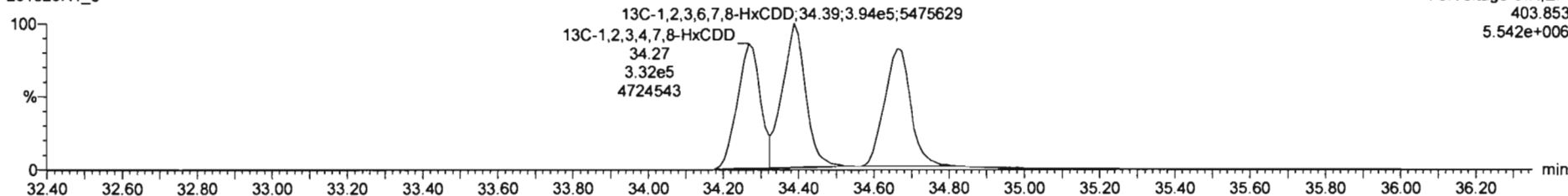
**13C-1,2,3,4,7,8-HxCDD**

201020R1\_8



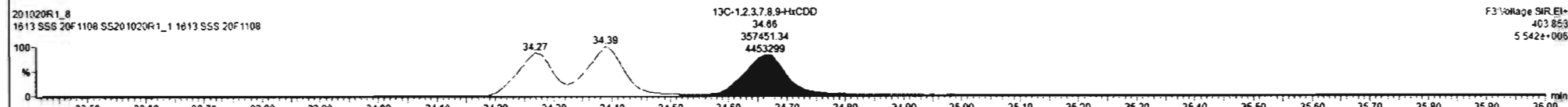
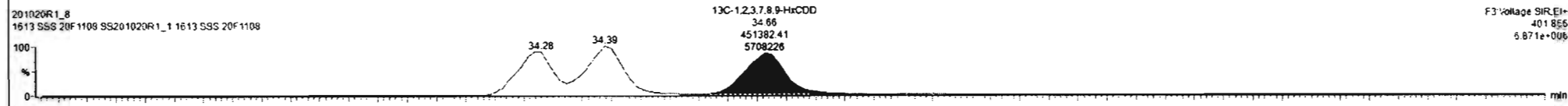
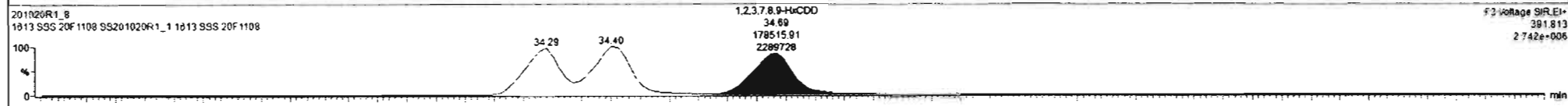
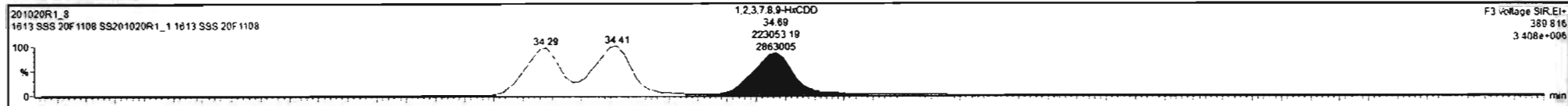
F3:Voltage SIR, EI+  
401.856  
6.871e+006

201020R1\_8



F3:Voltage SIR, EI+  
403.853  
5.542e+006

#	Name	Resp	IS Resp	Pred RA	RA	s/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	1.37e5	1.49e6	0.77	0.74	NO	0.9501	26.30	26.36	NO	1.001	1.001	16.4	104	NO
2	1,2,3,7,8-PeCDD	4.87e5	1.07e6	0.63	0.62	NO	0.8855	30.97	30.96	NO	1.000	1.000	52.3	105	NO
3	1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.24	1.30	NO	1.0178	34.31	34.29	NO	1.001	1.000	53.7	107	NO
4	1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.24	1.21	NO	0.9145	34.40	34.41	NO	1.000	1.001	55.4	111	NO
5	1,2,3,7,8,9-HxCDD	4.62e5	8.89e5	1.24	1.25	NO	0.9345	34.67	34.69	NO	1.000	1.001	53.1	108	NO
6	1,2,3,4,6,7,8-HpCDD	3.08e5	8.75e5	1.04	1.02	NO	0.8897	38.15	38.17	NO	1.000	1.001	52.4	105	NO
7	OCDD	5.24e5	1.11e6	0.89	0.87	NO	0.8717	41.11	41.12	NO	1.000	1.000	109	109	NO
8	2,3,7,8-TCDF	1.63e5	1.90e6	0.77	0.75	NO	0.8243	25.60	25.62	NO	1.000	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.55	1.57	NO	0.9626	29.70	29.71	NO	1.000	1.001	50.6	101	NO
10	1,2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.55	1.58	NO	1.0684	30.76	30.78	NO	1.000	1.001	54.9	110	NO
11	1,2,3,4,7,8-HxCDF	5.49e5	1.04e6	1.24	1.22	NO	0.9535	33.36	33.38	NO	1.000	1.001	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	6.04e5	1.08e6	1.24	1.22	NO	1.0080	33.50	33.51	NO	1.000	1.000	55.3	111	NO
13	1,2,3,4,6,7,8-HxCDF	5.49e5	1.01e6	1.24	1.23	NO	0.9907	34.16	34.18	NO	1.000	1.001	54.9	110	NO
14	1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.24	1.23	NO	0.9506	35.17	35.18	NO	1.000	1.000	54.3	109	NO
15	1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.04	1.01	NO	0.9986	36.76	36.77	NO	1.000	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.47e5	6.01e5	1.04	1.01	NO	1.1238	38.77	38.78	NO	1.000	1.000	51.5	103	NO
17	OCDF	6.03e5	1.28e6	0.88	0.88	NO	0.8682	41.41	41.41	NO	1.000	1.000	108	108	NO
18	13C-2,3,7,8-TCDD	1.40e6	1.26e6	0.77	0.78	NO	1.1089	26.27	26.27	NO	1.029	1.030	100	100	NO
19	13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.63	0.62	NO	0.6585	30.91	30.96	NO	1.211	1.213	99.3	99.3	NO
20	13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.24	1.26	NO	0.6997	34.28	34.28	NO	1.013	1.014	97.5	97.5	NO
21	13C-1,2,3,6,7,8-HxCDD	8.90e5	1.11e6	1.24	1.26	NO	0.6327	34.39	34.39	NO	1.017	1.017	96.3	96.3	NO



Dataset: Untitled

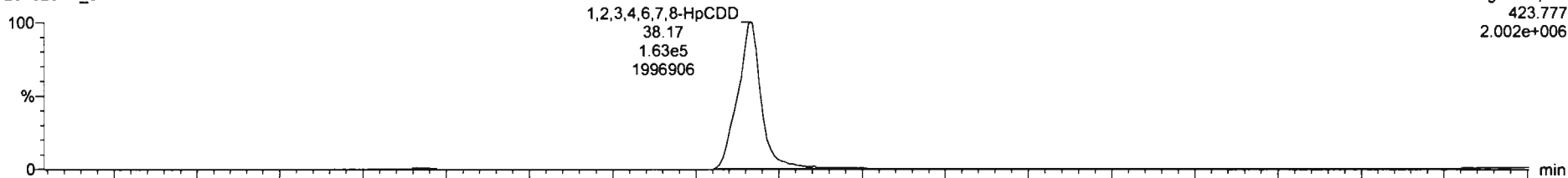
Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

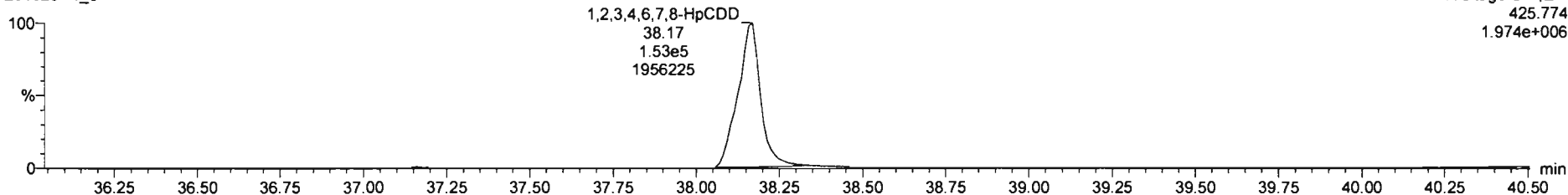
**1,2,3,4,6,7,8-HpCDD**

201020R1\_8



F4:Voltage SIR, EI+  
423.777  
2.002e+006

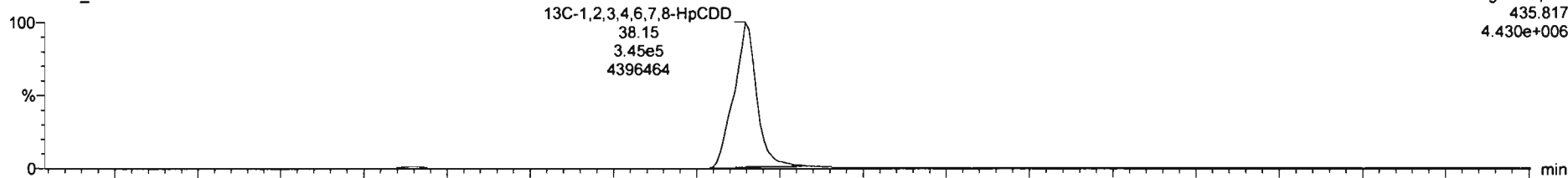
201020R1\_8



F4:Voltage SIR, EI+  
425.774  
1.974e+006

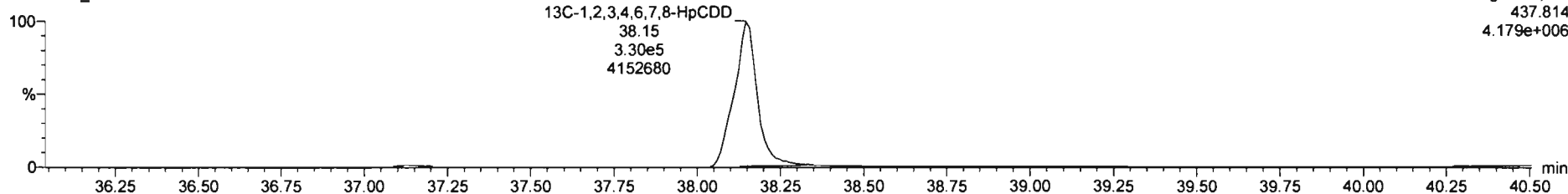
**13C-1,2,3,4,6,7,8-HpCDD**

201020R1\_8



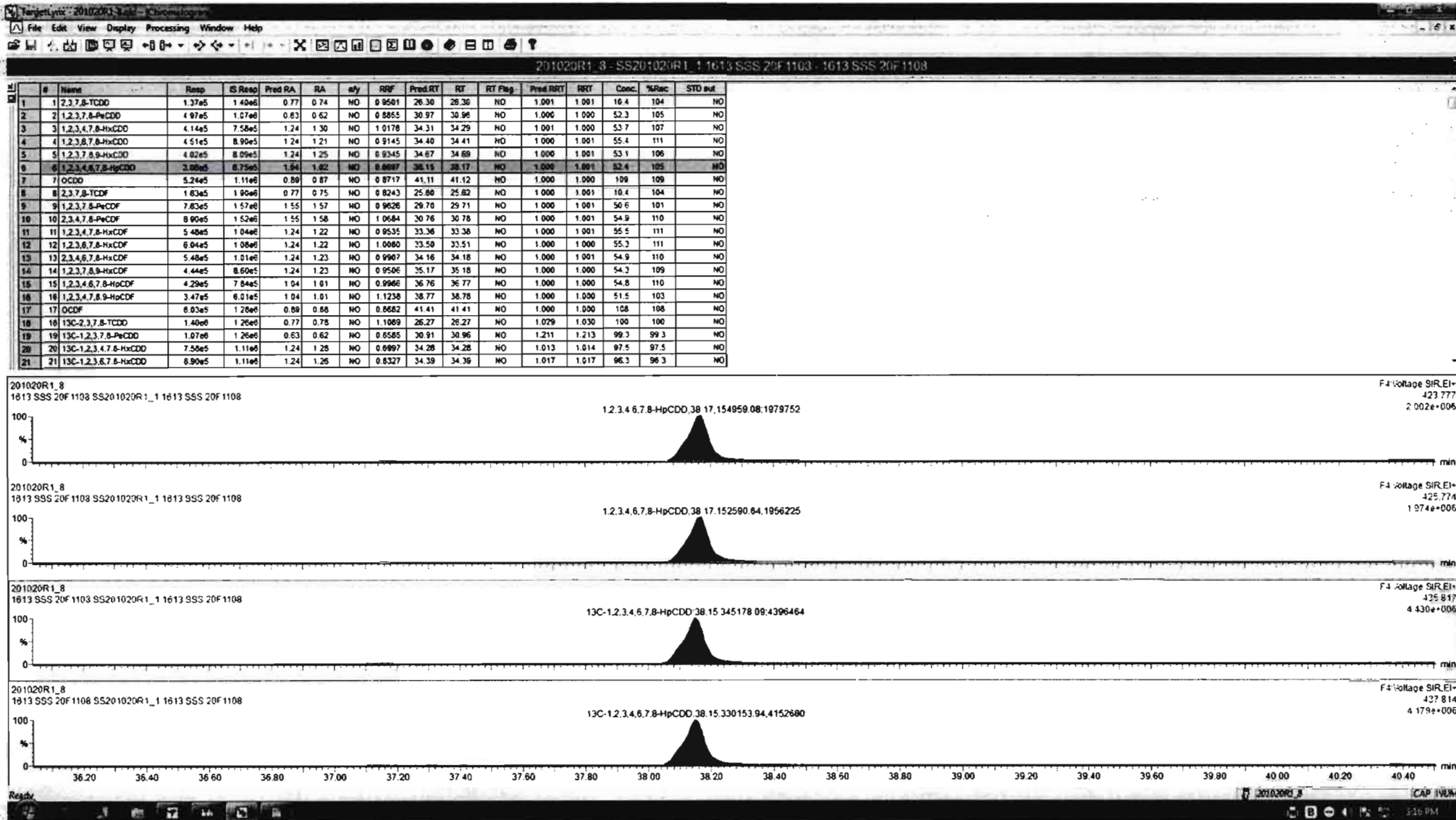
F4:Voltage SIR, EI+  
435.817  
4.430e+006

201020R1\_8



F4:Voltage SIR, EI+  
437.814  
4.179e+006





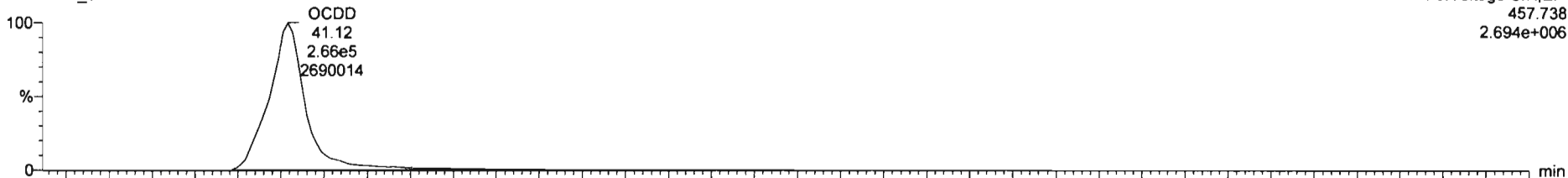
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

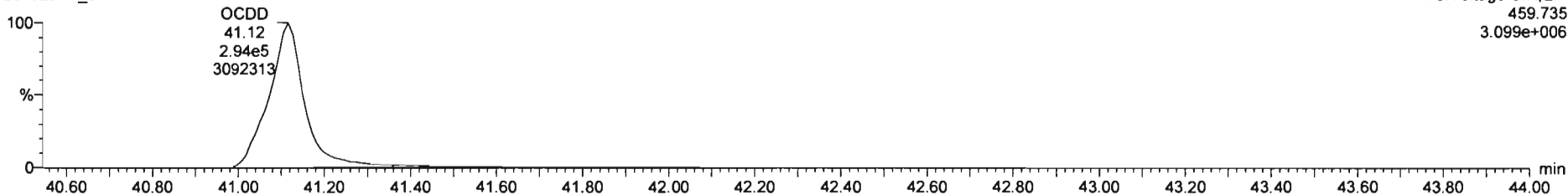
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**OCDD**

201020R1\_8

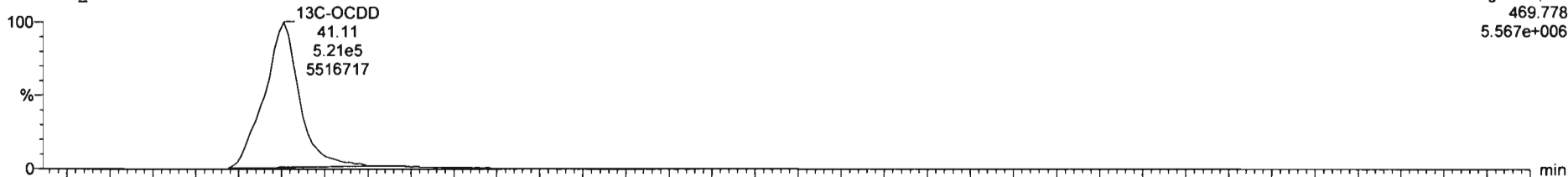


201020R1\_8

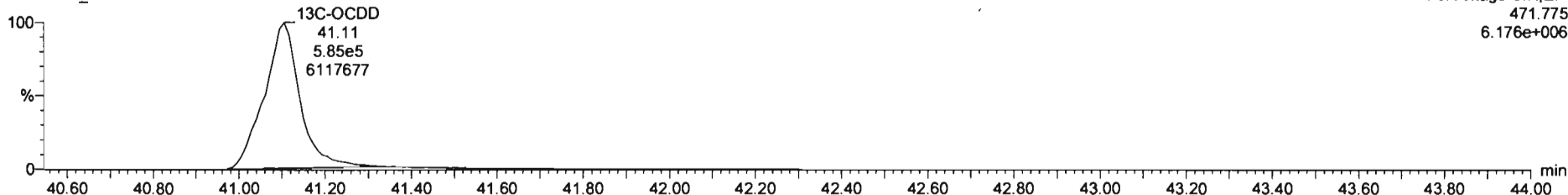


**13C-OCDD**

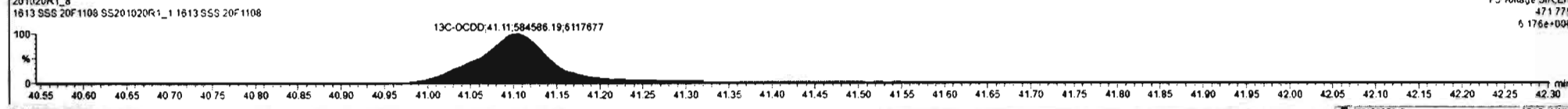
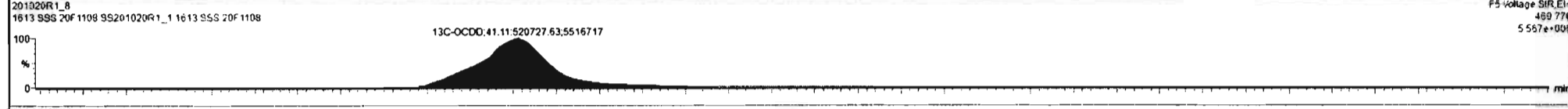
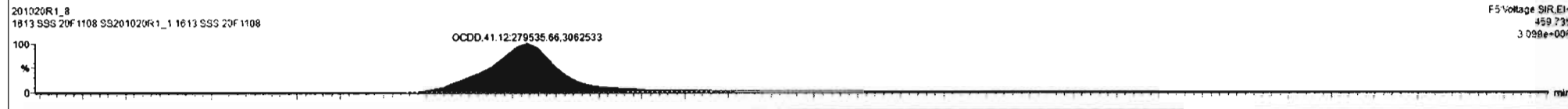
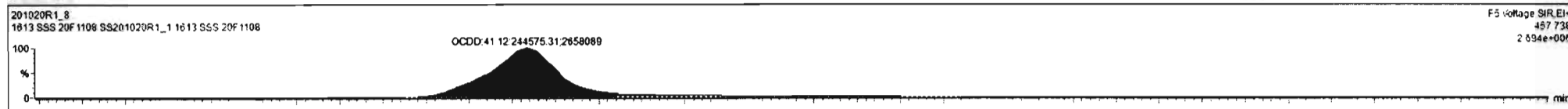
201020R1\_8



201020R1\_8



#	Name	Resp	IS Resp	Pred RA	RA	sfy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	1.37e5	1.48e6	0.77	0.74	NO	0.9501	26.36	26.36	NO	1.001	1.001	10.4	104	NO
2	1,2,3,7,8-PeCDD	4.97e5	1.07e6	0.63	0.62	NO	0.8855	30.97	30.96	NO	1.000	1.000	52.3	105	NO
3	1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.24	1.30	NO	1.0178	34.31	34.29	NO	1.001	1.000	53.7	107	NO
4	1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.24	1.21	NO	0.9145	34.48	34.41	NO	1.000	1.001	55.4	111	NO
5	1,2,3,7,8,9-HxCDD	4.02e5	8.09e5	1.24	1.25	NO	0.9345	34.67	34.66	NO	1.000	1.001	53.1	106	NO
6	1,2,3,4,6,7,8-HxCDD	3.08e5	6.75e5	1.04	1.02	NO	0.8697	38.15	38.17	NO	1.000	1.001	52.4	105	NO
7	OCDD	8.26e5	1.11e6	0.86	0.87	NO	0.8717	41.11	41.12	NO	1.000	1.000	100	100	NO
8	2,3,7,8-TCDF	1.63e5	1.90e6	0.77	0.75	NO	0.8243	25.60	25.62	NO	1.000	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.55	1.57	NO	0.9826	29.70	29.71	NO	1.000	1.001	50.6	101	NO
10	2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.55	1.58	NO	1.0684	30.76	30.78	NO	1.000	1.001	54.9	110	NO
11	1,2,3,4,7,8-HxCDF	5.48e5	1.04e6	1.24	1.22	NO	0.9535	33.36	33.36	NO	1.000	1.001	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	6.04e5	1.08e6	1.24	1.22	NO	1.0060	33.50	33.51	NO	1.000	1.000	55.3	111	NO
13	2,3,4,6,7,8-HxCDF	5.48e5	1.01e6	1.24	1.23	NO	0.9907	34.16	34.18	NO	1.000	1.001	54.9	110	NO
14	1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.24	1.23	NO	0.9506	35.17	35.18	NO	1.000	1.000	54.3	109	NO
15	1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.04	1.01	NO	0.9866	36.76	36.77	NO	1.000	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.47e5	6.01e5	1.04	1.01	NO	1.1238	38.77	38.78	NO	1.000	1.000	51.5	103	NO
17	OCDF	6.03e5	1.28e6	0.89	0.88	NO	0.6682	41.41	41.41	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDD	1.40e6	1.26e6	0.77	0.78	NO	1.1089	26.27	26.27	NO	1.029	1.030	100	100	NO
19	13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.63	0.62	NO	0.6585	30.91	30.96	NO	1.211	1.213	98.3	99.3	NO
20	13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.24	1.26	NO	0.6997	34.26	34.28	NO	1.013	1.014	97.5	97.5	NO
21	13C-1,2,3,6,7,8-HxCDD	8.90e5	1.11e6	1.24	1.26	NO	0.8327	34.39	34.39	NO	1.017	1.017	96.3	96.3	NO



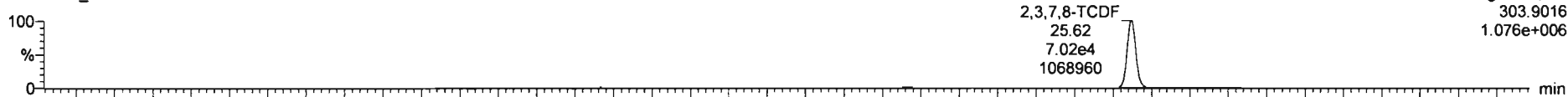
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

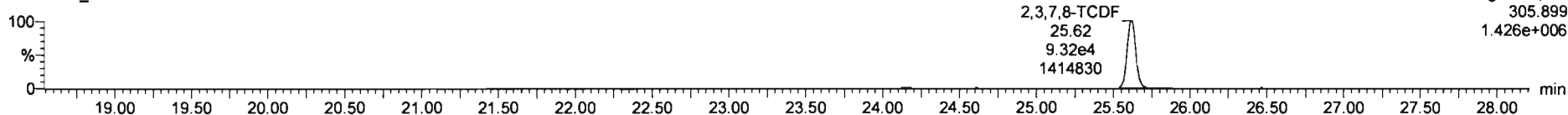
Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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

201020R1\_8

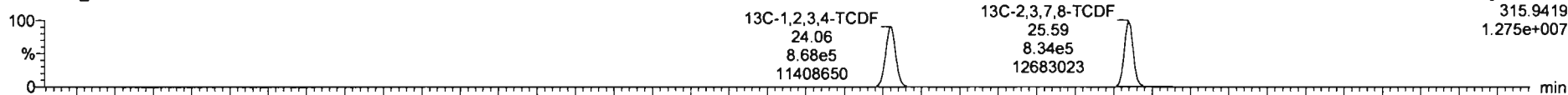


201020R1\_8

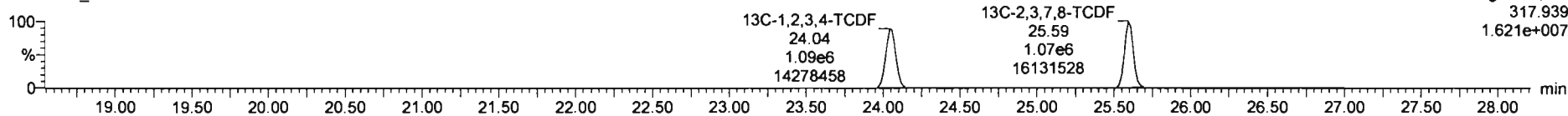


**13C-2,3,7,8-TCDF**

201020R1\_8

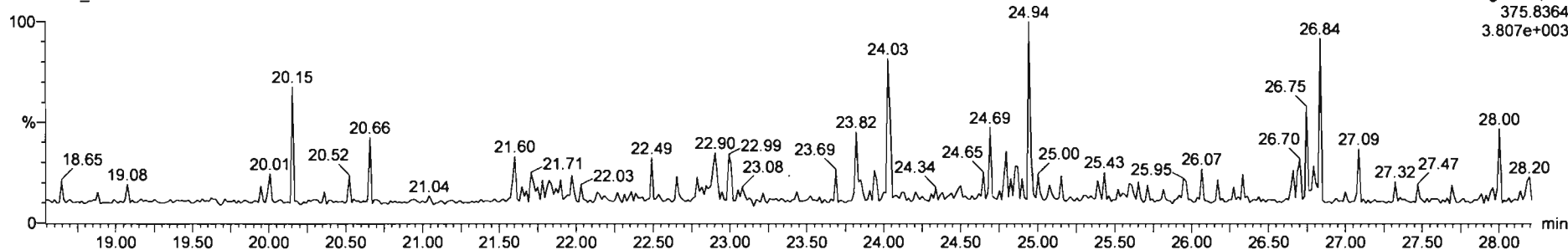


201020R1\_8



**DPE1**

201020R1\_8



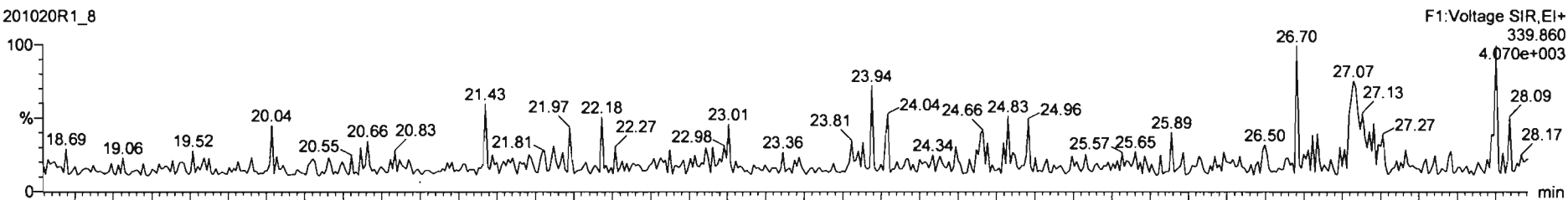
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Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

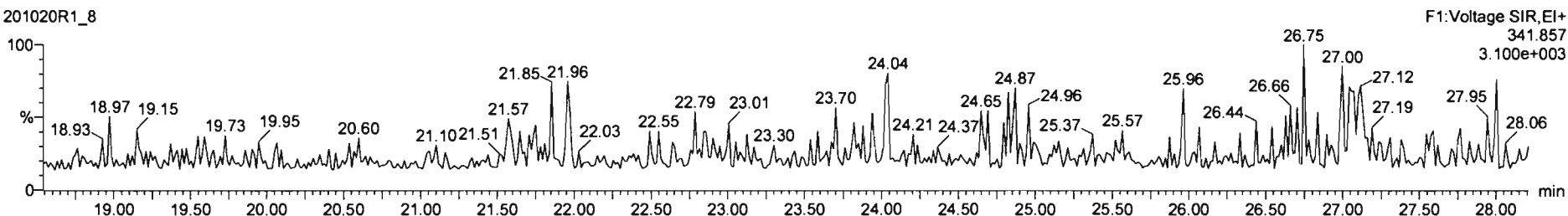
Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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201020R1\_8

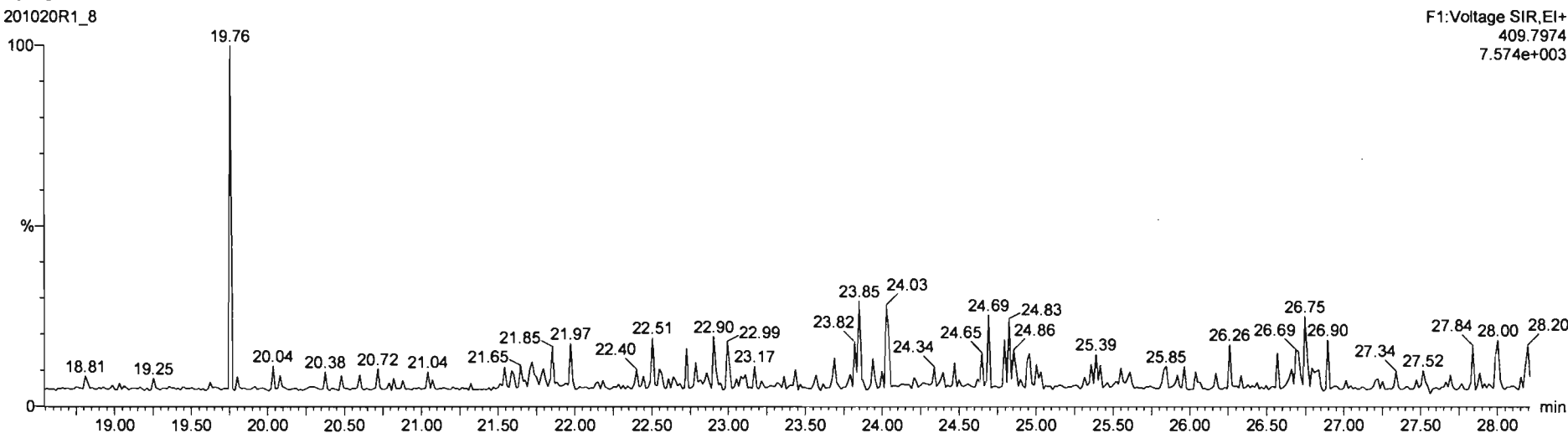


201020R1\_8



DPE6

201020R1\_8



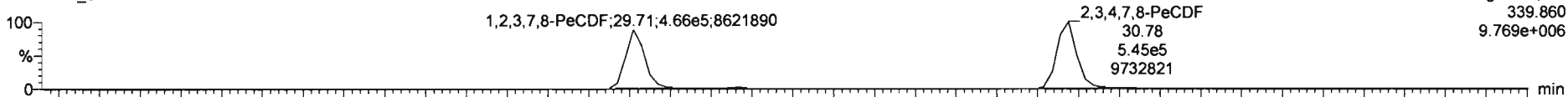
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Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

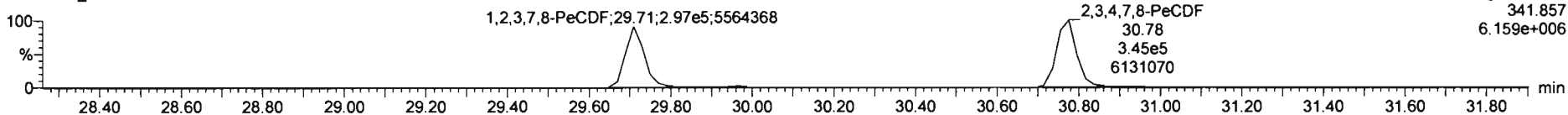
**1,2,3,7,8-PeCDF**

201020R1\_8



F2:Voltage SIR,El+  
339.860  
9.769e+006

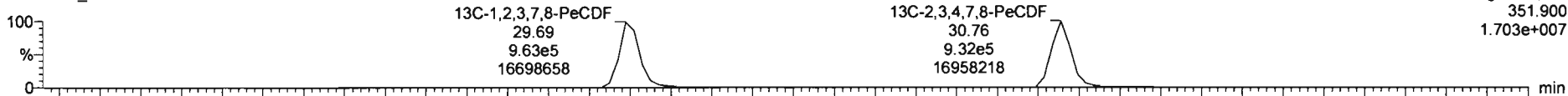
201020R1\_8



F2:Voltage SIR,El+  
341.857  
6.159e+006

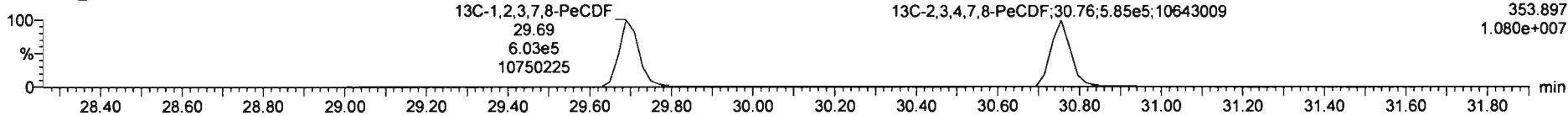
**13C-1,2,3,7,8-PeCDF**

201020R1\_8



F2:Voltage SIR,El+  
351.900  
1.703e+007

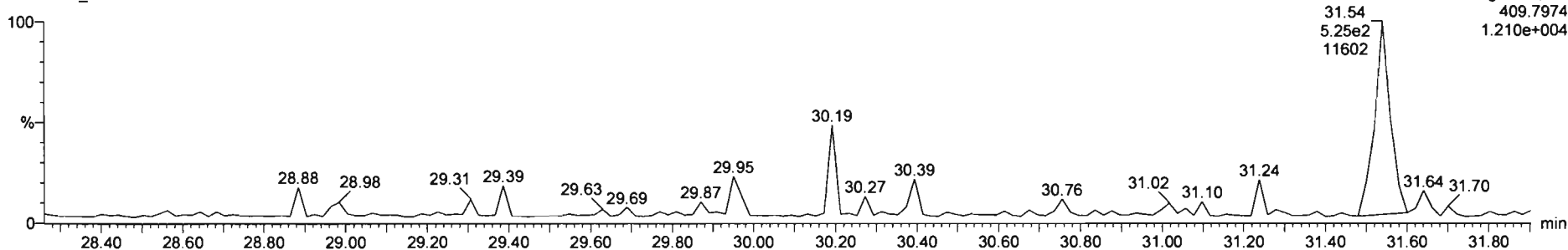
201020R1\_8



F2:Voltage SIR,El+  
353.897  
1.080e+007

**DPE2**

201020R1\_8



F2:Voltage SIR,El+  
409.7974  
1.210e+004

Dataset: Untitled

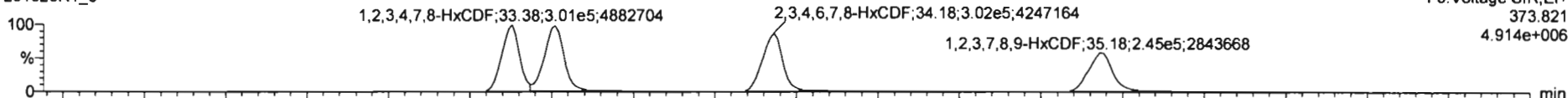
Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

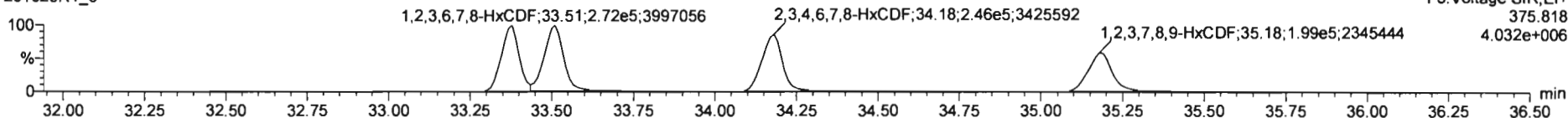
Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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

201020R1\_8

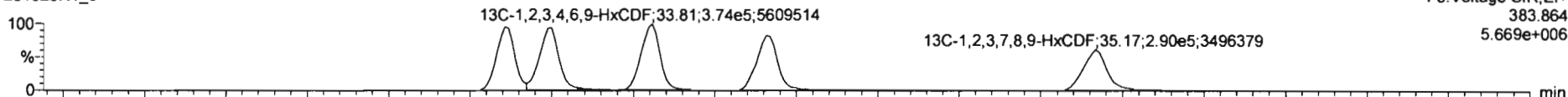


201020R1\_8

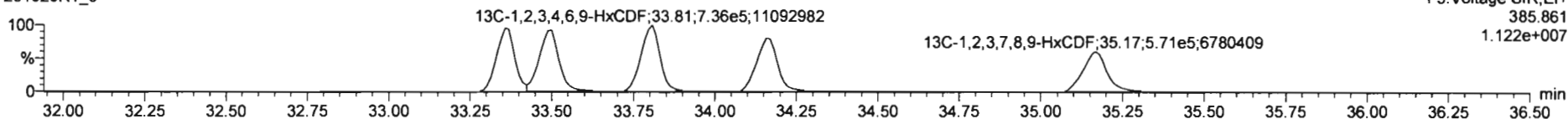


**13C-1,2,3,4,7,8-HxCDF**

201020R1\_8

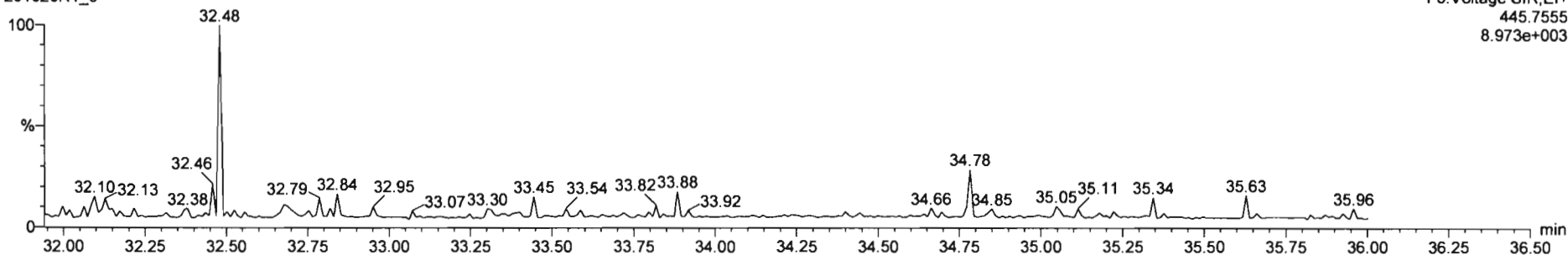


201020R1\_8



**DPE3**

201020R1\_8



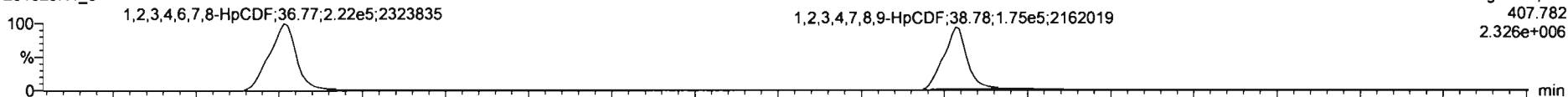
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Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time  
Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

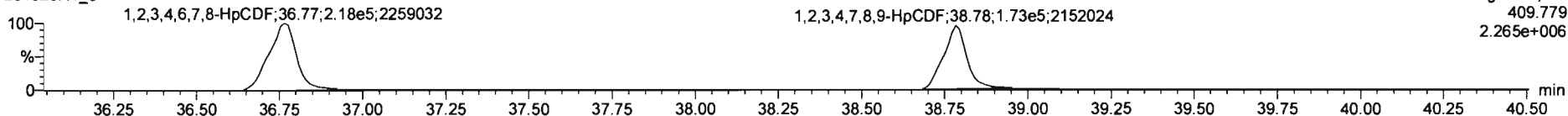
Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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

201020R1\_8

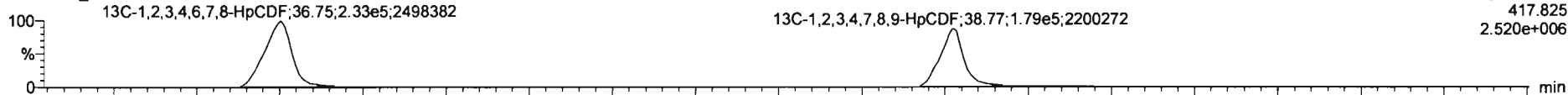


201020R1\_8

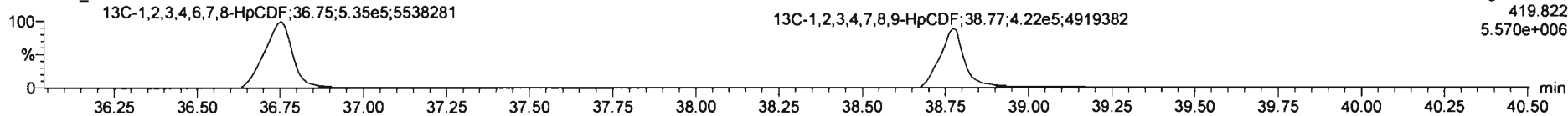


**13C-1,2,3,4,6,7,8-HpCDF**

201020R1\_8

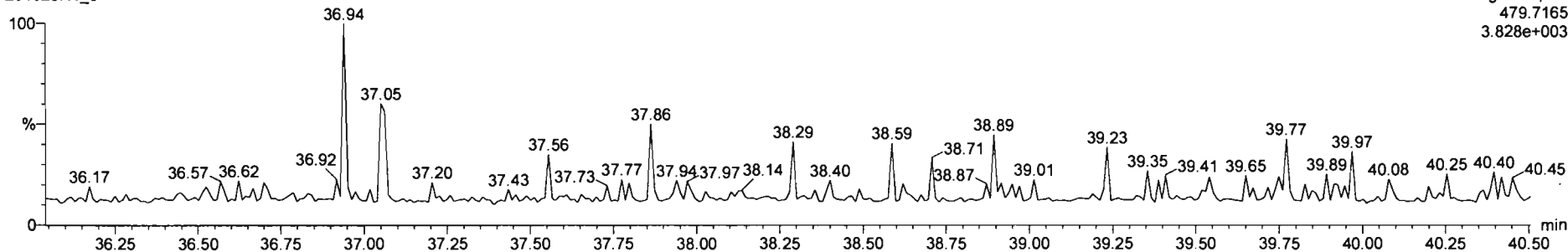


201020R1\_8

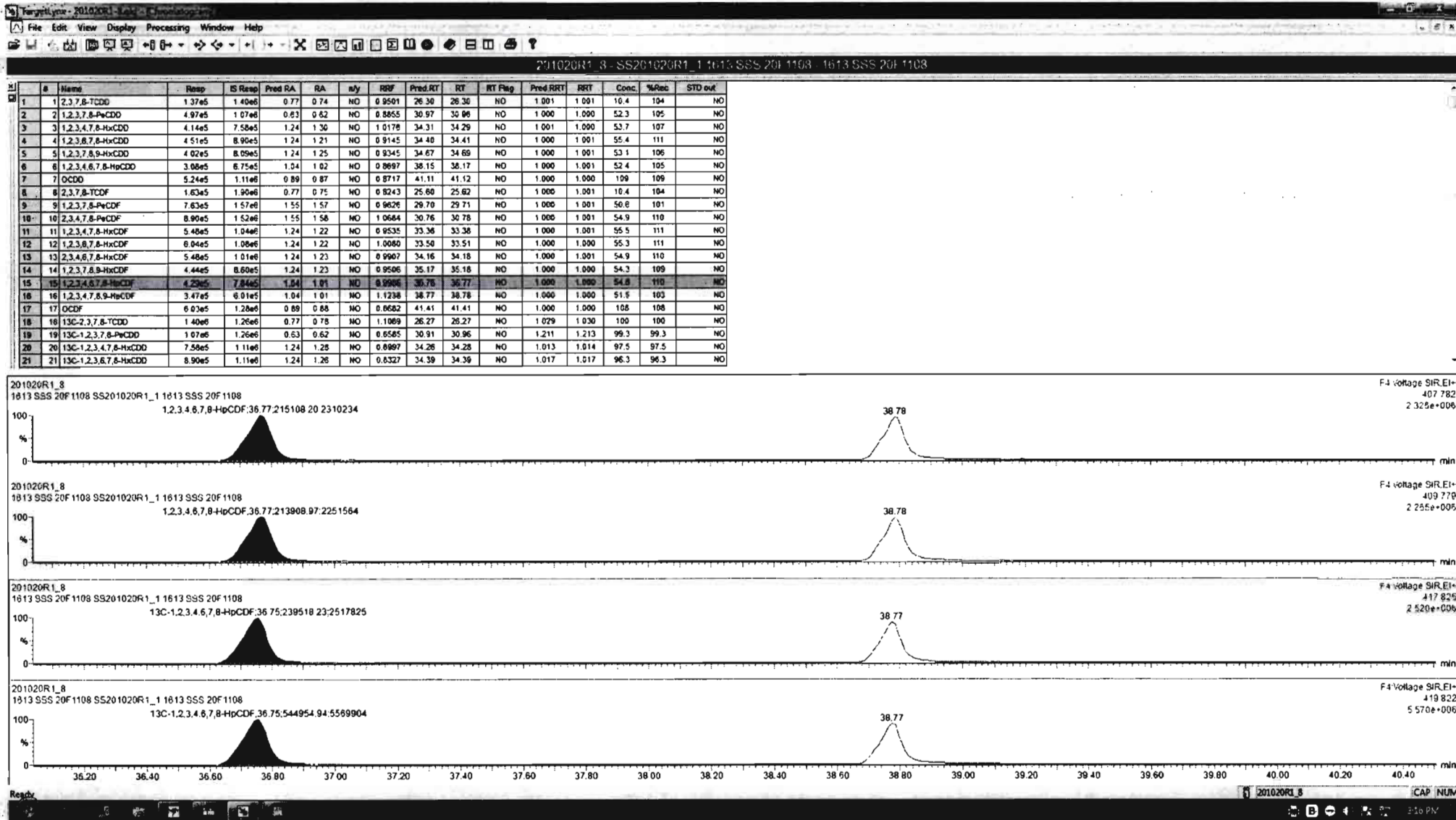


**DPE4**

201020R1\_8







Dataset: Untitled

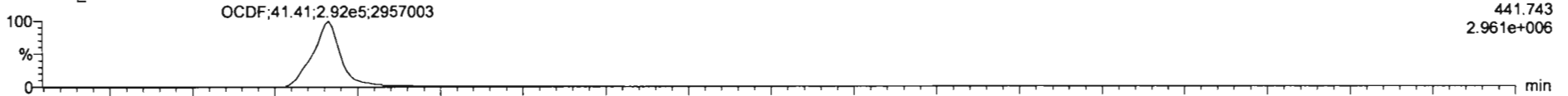
Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

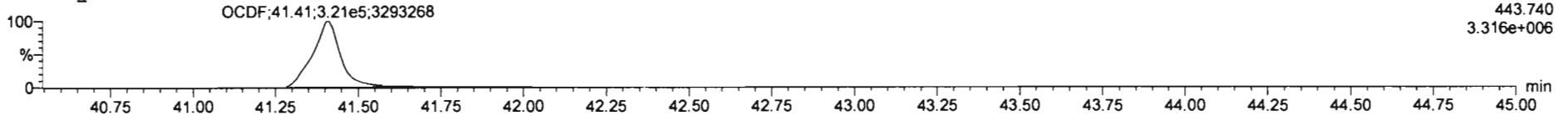
Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

**OCDF**

201020R1\_8

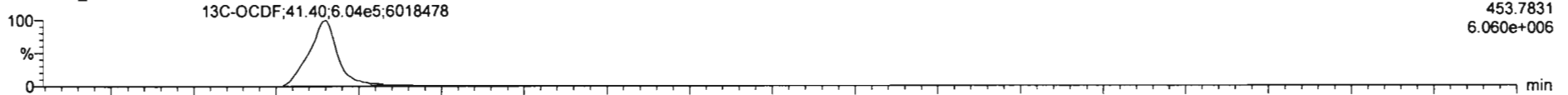


201020R1\_8

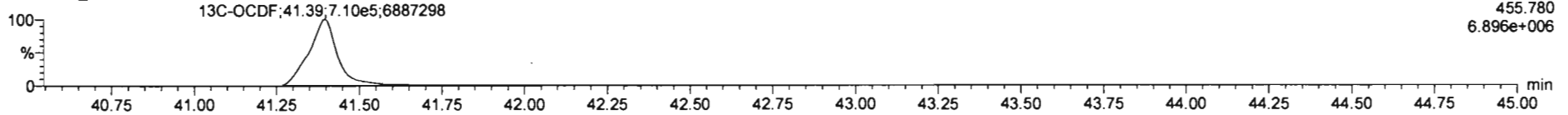


**13C-OCDF**

201020R1\_8

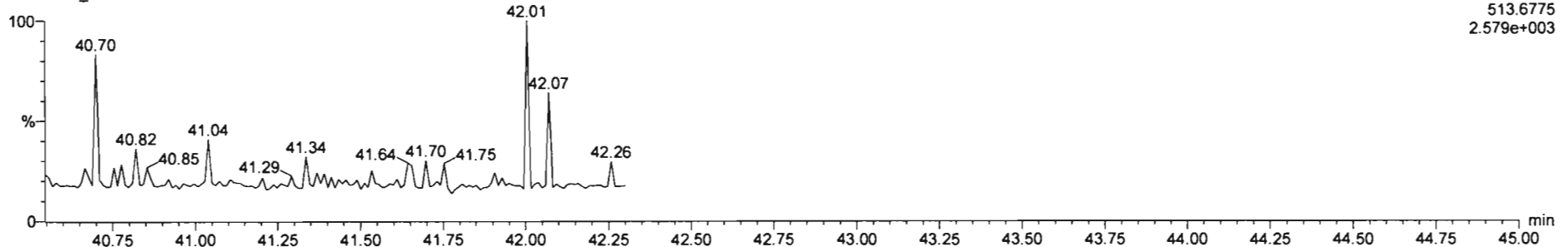


201020R1\_8

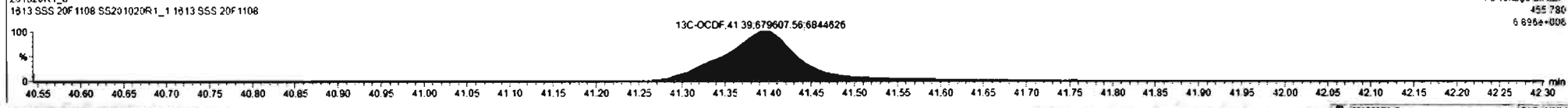
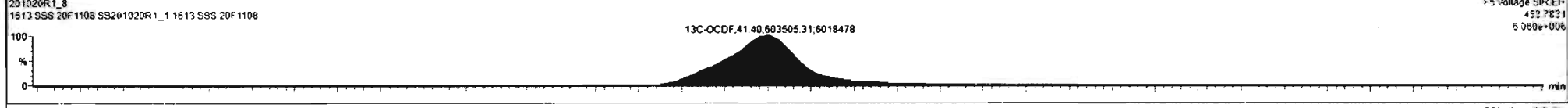
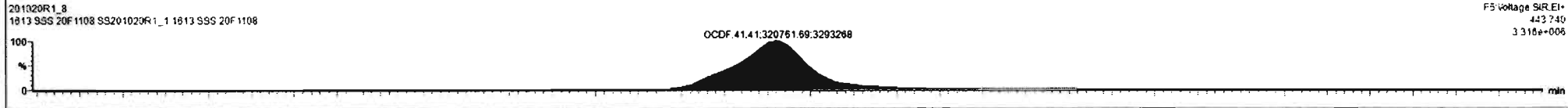
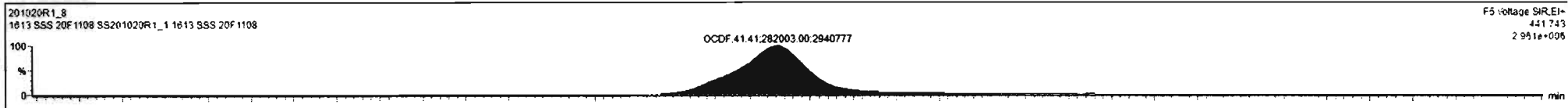


**DPE5**

201020R1\_8



#	Name	Resp	IS Resp	Pred RA	RA	aly	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	1.37e5	1.40e6	0.77	0.74	NO	0.9501	26.30	26.30	NO	1.001	1.001	16.4	104	NO
2	1,2,3,7,8-PeCDD	4.97e5	1.07e6	0.63	0.62	NO	0.8855	30.97	30.96	NO	1.000	1.000	52.3	105	NO
3	1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.24	1.30	NO	1.0178	34.31	34.29	NO	1.001	1.000	53.7	107	NO
4	1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.24	1.21	NO	0.9145	34.40	34.41	NO	1.000	1.001	55.4	111	NO
5	1,2,3,7,8,9-HxCDD	4.02e5	8.09e5	1.24	1.25	NO	0.9345	34.67	34.69	NO	1.000	1.001	53.1	106	NO
6	1,2,3,4,6,7,8-HpCDD	3.08e5	6.75e5	1.04	1.02	NO	0.8697	38.15	38.17	NO	1.000	1.001	52.4	105	NO
7	OCDF	5.24e5	1.11e6	0.89	0.87	NO	0.8717	41.11	41.12	NO	1.000	1.000	109	109	NO
8	1,2,3,7,8-TCDF	1.63e5	1.90e6	0.77	0.75	NO	0.8243	25.88	25.62	NO	1.000	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.55	1.57	NO	0.9826	29.70	29.71	NO	1.000	1.001	50.6	101	NO
10	1,2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.55	1.58	NO	1.0684	30.76	30.78	NO	1.000	1.001	54.9	110	NO
11	1,2,3,4,7,8-HxCDF	5.48e5	1.04e6	1.24	1.22	NO	0.9535	33.36	33.38	NO	1.000	1.001	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	6.04e5	1.08e6	1.24	1.22	NO	1.0080	33.50	33.51	NO	1.000	1.000	55.3	111	NO
13	1,2,3,4,6,7,8-HxCDF	5.48e5	1.01e6	1.24	1.23	NO	0.9907	34.16	34.18	NO	1.000	1.001	54.9	110	NO
14	1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.24	1.23	NO	0.9506	35.17	35.18	NO	1.000	1.000	54.3	109	NO
15	1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.04	1.01	NO	0.9086	36.76	36.77	NO	1.000	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.47e5	6.91e5	1.04	1.01	NO	1.1238	38.77	38.78	NO	1.000	1.000	51.5	103	NO
17	OCDF	8.85e5	1.28e6	0.89	0.88	NO	0.8852	41.41	41.41	NO	1.000	1.000	108	108	NO
18	13C-1,2,3,7,8-TCDD	1.40e6	1.26e6	0.77	0.78	NO	1.1089	26.27	26.27	NO	1.029	1.030	100	100	NO
19	13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.63	0.62	NO	0.8585	30.91	30.96	NO	1.211	1.213	96.3	99.3	NO
20	13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.24	1.26	NO	0.8997	34.26	34.28	NO	1.013	1.014	97.5	97.5	NO
21	13C-1,2,3,6,7,8-HxCDD	6.90e5	1.11e6	1.24	1.26	NO	0.8327	34.39	34.39	NO	1.017	1.017	96.3	96.3	NO

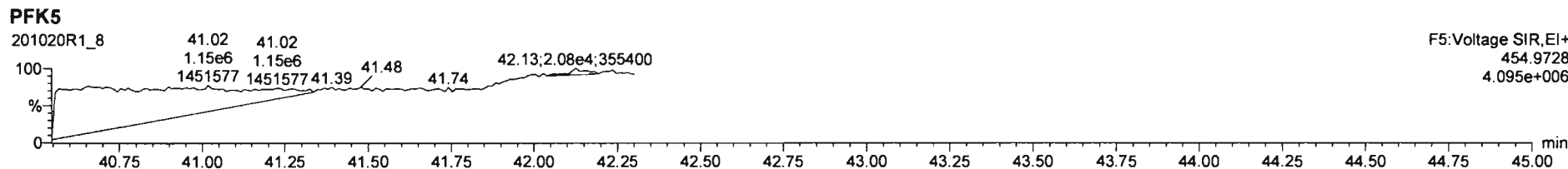
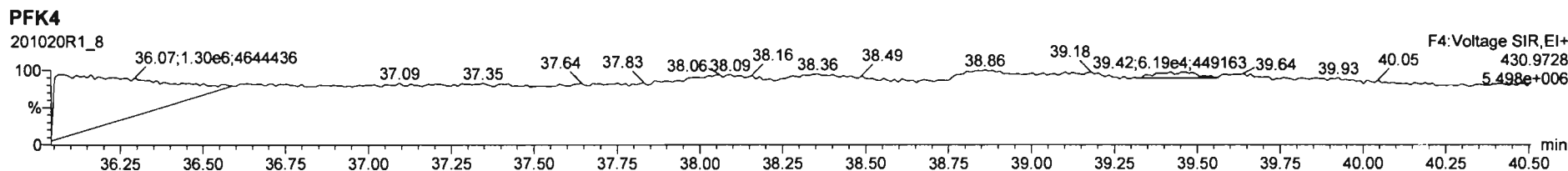
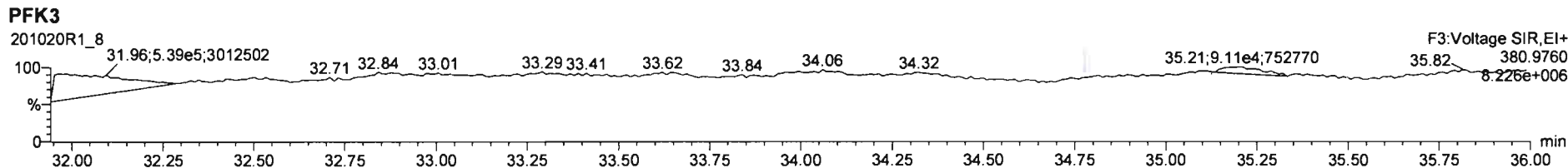
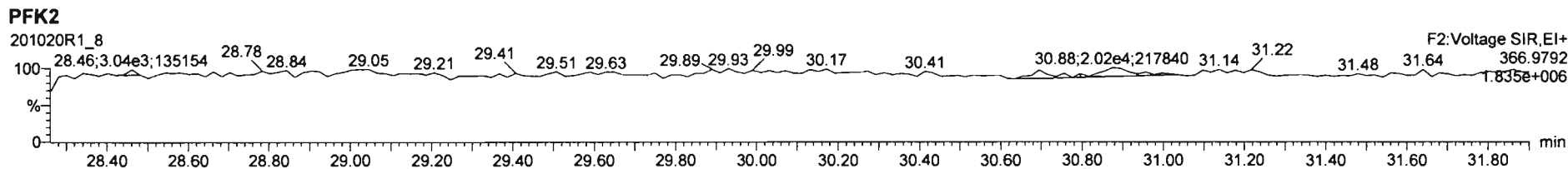
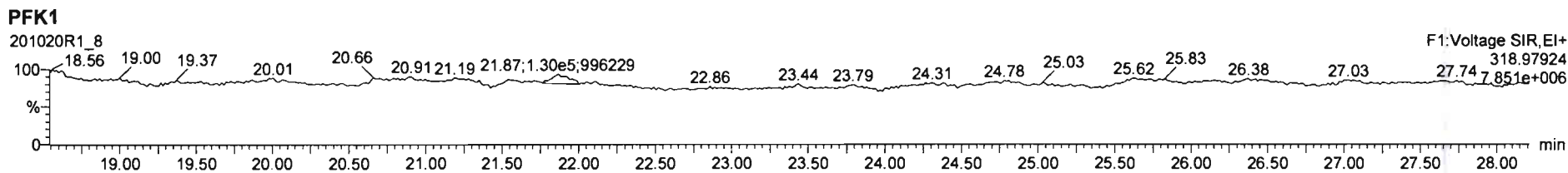


Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1\_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1\_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108



Dataset: U:\VG11.PRO\Results\200601K1\200601K1-CRVB.qld

*hr 6/2/2020*

*GT 06/02/2020*

Last Altered: Tuesday, June 02, 2020 10:21:37 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 11:15:31 Pacific Daylight Time

*Begin Rescheck: 1 mass under 10K*

*End Rescheck: some mass affected by column bleed.*

Method: Untitled 01 Jun 2020 09:39:00

Calibration: U:\VG11.PRO\CurveDB\cb1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

*-1 mass under 10K*

Compound name: PCB-1

Response Factor: 1.1683

RRF SD: 0.0700662, Relative SD: 5.99729

Response type: Internal Std ( Ref 169 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	ny	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	2.96	NO	15.52	1.001	6.24e3	2.37e6	0.225	-9.8	1.05	MM
200601K1_2	1.00	3.13	NO	15.53	1.001	2.90e4	2.53e6	0.981	-1.9	1.15	bb
200601K1_3	2.50	3.13	NO	15.56	1.002	7.00e4	2.48e6	2.44	-2.6	1.14	bb
200601K1_4	50.0	3.09	NO	15.54	1.001	1.47e6	2.44e6	51.7	3.3	1.21	bb
200601K1_5	400	3.02	NO	15.54	1.001	1.26e7	2.52e6	426	6.5	1.24	bb
200601K1_6	1000	3.09	NO	15.56	1.002	2.96e7	2.44e6	1040	4.4	1.22	bb

Compound name: PCB-2

Response Factor: 1.1828

RRF SD: 0.0716252, Relative SD: 6.05556

Response type: Internal Std ( Ref 170 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	ny	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	3.12	NO	17.93	0.988	8.58e3	2.41e6	0.231	-7.7	1.09	bb
200601K1_2	1.00	3.07	NO	17.94	0.988	2.89e4	2.58e6	0.945	-5.5	1.12	bb
200601K1_3	2.50	3.06	NO	17.95	0.988	7.31e4	2.54e6	2.43	-2.6	1.15	bb
200601K1_4	50.0	3.10	NO	17.95	0.988	1.51e6	2.48e6	51.9	3.8	1.23	bb
200601K1_5	400	3.09	NO	17.95	0.988	1.30e7	2.59e6	426	6.5	1.26	bb
200601K1_6	1000	3.10	NO	17.95	0.988	3.06e7	2.47e6	1060	5.6	1.25	bb

Dataset: U:\VG11.PRO\Results\200601K1\200601K1-CRVB.qld

Last Altered: Tuesday, June 02, 2020 10:21:37 Pacific Daylight Time  
 Printed: Tuesday, June 02, 2020 11:15:31 Pacific Daylight Time

Compound name: PCB-3  
 Response Factor: 1.14833  
 RRF SD: 0.0822518, Relative SD: 7.16272  
 Response type: Internal Std ( Ref 170 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	3.08	NO	18.17	1.001	6.28e3	2.41e6	0.227	-9.2	1.04	MM
2	200601K1_2	1.00	2.84	NO	18.18	1.001	2.75e4	2.58e6	0.928	-7.2	1.07	bb
3	200601K1_3	2.50	3.01	NO	18.19	1.001	7.13e4	2.54e6	2.45	-2.1	1.12	bb
4	200601K1_4	50.0	3.06	NO	18.19	1.001	1.48e6	2.46e6	52.8	5.1	1.21	bb
5	200601K1_5	400	3.08	NO	18.19	1.001	1.27e7	2.59e6	428	7.1	1.23	bb
6	200601K1_6	1000	3.07	NO	18.19	1.001	3.01e7	2.47e6	1060	6.3	1.22	bb

Compound name: PCB-4/10  
 Response Factor: 1.24809  
 RRF SD: 0.0718691, Relative SD: 5.75833  
 Response type: Internal Std ( Ref 171 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.500	1.39	NO	19.58	1.004	9.34e3	1.57e6	0.477	-4.5	1.19	MM
2	200601K1_2	2.00	1.82	NO	19.59	1.004	4.01e4	1.72e6	1.87	-6.5	1.17	MM
3	200601K1_3	5.00	1.58	NO	19.60	1.004	9.94e4	1.67e6	4.78	-4.5	1.19	MM
4	200601K1_4	100	1.53	NO	19.60	1.004	2.09e6	1.62e6	104	3.5	1.29	MM
5	200601K1_5	800	1.55	NO	19.60	1.004	1.82e7	1.72e6	850	6.2	1.33	MM
6	200601K1_6	2000	1.55	NO	19.60	1.004	4.30e7	1.63e6	2110	5.7	1.32	MM

Compound name: PCB-7/9  
 Response Factor: 0.960107  
 RRF SD: 0.0555849, Relative SD: 5.76736  
 Response type: Internal Std ( Ref 172 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.500	1.37	NO	21.37	1.002	1.15e4	2.57e6	0.467	-6.8	0.896	MM
2	200601K1_2	2.00	1.86	NO	21.40	1.003	5.04e4	2.77e6	1.90	-5.2	0.910	MM

Dataset: U:\VG11.PRO\Results\200801K1\200801K1-CRVB.qld

Last Altered: Tuesday, June 02, 2020 10:21:37 Pacific Daylight Time  
 Printed: Tuesday, June 02, 2020 11:15:31 Pacific Daylight Time

Compound name: PCB-7/9

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_3	5.00	1.59	NO	21.38	1.002	1.26e5	2.71e6	4.84	-3.2	0.930	bb
200801K1_4	100	1.55	NO	21.41	1.003	2.56e6	2.81e6	103	2.5	0.985	bb
200801K1_5	800	1.55	NO	21.40	1.002	2.25e7	2.73e6	859	7.3	1.03	bb
200801K1_6	2000	1.55	NO	21.41	1.003	5.31e7	2.83e6	2100	5.1	1.01	bb

Compound name: PCB-8

Response Factor: 1.02356

RRF SD: 0.0533669, Relative SD: 5.21385

Response type: Internal Std ( Ref 172 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.35	NO	22.04	1.033	6.56e3	2.57e6	0.249	-0.3	1.02	MM
200801K1_2	1.00	1.61	NO	22.05	1.033	2.62e4	2.77e6	0.925	-7.5	0.947	bb
200801K1_3	2.50	1.52	NO	22.06	1.033	6.65e4	2.71e6	2.40	-4.1	0.981	bb
200801K1_4	50.0	1.56	NO	22.06	1.033	1.35e6	2.81e6	50.5	0.9	1.03	bb
200801K1_5	400	1.57	NO	22.06	1.033	1.19e7	2.73e6	425	6.4	1.09	bb
200801K1_6	1000	1.56	NO	22.06	1.033	2.82e7	2.83e6	1050	4.8	1.07	bb

Compound name: PCB-5/8

Response Factor: 0.992495

RRF SD: 0.0686245, Relative SD: 6.71283

Response type: Internal Std ( Ref 172 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.500	1.47	NO	22.45	1.053	1.15e4	2.57e6	0.452	-9.5	0.898	MM
200801K1_2	2.00	1.46	NO	22.45	1.052	5.24e4	2.77e6	1.91	-4.7	0.946	MM
200801K1_3	5.00	1.56	NO	22.46	1.052	1.31e5	2.71e6	4.86	-2.9	0.964	bb
200801K1_4	100	1.55	NO	22.46	1.052	2.88e6	2.81e6	103	3.5	1.03	bb
200801K1_5	800	1.55	NO	22.46	1.052	2.33e7	2.73e6	859	7.4	1.07	bb
200801K1_6	2000	1.55	NO	22.46	1.052	5.55e7	2.83e6	2120	6.2	1.05	bb

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Compound name: PCB-14  
 Response Factor: 1.01729  
 RRF SD: 0.0674193, Relative SD: 6.62732  
 Response type: Internal Std ( Ref 173 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	nlv	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.49	NO	23.59	0.952	5.81e3	2.53e6	0.225	-9.8	0.917	MM
200601K1_2	1.00	1.55	NO	23.59	0.951	2.88e4	2.70e6	0.977	-2.3	0.994	bb
200601K1_3	2.50	1.59	NO	23.60	0.951	6.81e4	2.71e6	2.40	-4.1	0.975	bd
200601K1_4	50.0	1.57	NO	23.60	0.951	1.35e6	2.56e6	51.9	3.9	1.06	bb
200601K1_5	400	1.55	NO	23.60	0.951	1.19e7	2.70e6	433	8.3	1.10	bb
200601K1_6	1000	1.57	NO	23.60	0.951	2.85e7	2.69e6	1040	4.1	1.06	bb

Compound name: PCB-11  
 Response Factor: 1.12639  
 RRF SD: 0.0395035, Relative SD: 3.50708  
 Response type: Internal Std ( Ref 173 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	nlv	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.34	NO	24.81	1.001	7.25e3	2.53e6	0.254	1.7	1.15	MM
200601K1_2	1.00	1.51	NO	24.81	1.001	2.94e4	2.70e6	0.967	-3.3	1.09	MM
200601K1_3	2.50	1.51	NO	24.82	1.001	7.22e4	2.71e6	2.37	-5.3	1.07	db
200601K1_4	50.0	1.57	NO	24.82	1.001	1.46e6	2.56e6	50.8	1.5	1.14	MM
200601K1_5	400	1.56	NO	24.82	1.001	1.26e7	2.70e6	415	3.8	1.17	db
200601K1_6	1000	1.57	NO	24.82	1.001	3.07e7	2.69e6	1020	1.8	1.14	db

Compound name: PCB-12/13  
 Response Factor: 1.02668  
 RRF SD: 0.0663406, Relative SD: 6.46163  
 Response type: Internal Std ( Ref 173 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	nlv	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.500	1.36	NO	25.18	1.016	1.35e4	2.53e6	0.518	3.7	1.06	MM
200601K1_2	2.00	1.58	NO	25.25	1.016	5.17e4	2.70e6	1.87	-6.7	0.958	MM



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Compound name: PCB-12/13

Name	Std Conc	RA	Hy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_3	5.00	1.60	NO	25.20	1.016	1.34e5	2.71e6	4.80	-4.0	0.985	MM
200801K1_4	100	1.54	NO	25.20	1.016	2.71e6	2.56e6	103	3.3	1.06	MM
200801K1_5	800	1.54	NO	25.20	1.016	2.37e7	2.70e6	855	6.9	1.10	MM
200801K1_6	2000	1.56	NO	25.20	1.016	5.78e7	2.69e6	2100	4.8	1.08	MM

Compound name: PCB-15

Response Factor: 1.03482

RRF SD: 0.0605674, Relative SD: 5.85293

Response type: Internal Std ( Ref 173 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Hy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	1.40	NO	25.53	1.030	6.04e3	2.53e6	0.231	-7.8	0.954	MM
200801K1_2	1.00	1.58	NO	25.54	1.030	2.67e4	2.70e6	0.954	-4.6	0.987	MM
200801K1_3	2.50	1.51	NO	25.55	1.030	6.80e4	2.71e6	2.42	-3.1	1.00	MM
200801K1_4	50.0	1.55	NO	25.55	1.030	1.39e6	2.56e6	52.4	4.7	1.06	MM
200801K1_5	400	1.55	NO	25.55	1.030	1.18e7	2.70e6	423	5.8	1.10	MM
200801K1_6	1000	1.55	NO	25.55	1.030	2.92e7	2.69e6	1050	4.9	1.09	MM

Compound name: PCB-19

Response Factor: 1.10626

RRF SD: 0.0710209, Relative SD: 6.41991

Response type: Internal Std ( Ref 174 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Hy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	1.12	NO	23.77	1.001	3.44e3	1.32e6	0.236	-5.6	1.04	MM
200801K1_2	1.00	1.08	NO	23.78	1.001	1.48e4	1.42e6	0.945	-5.5	1.05	bb
200801K1_3	2.50	1.05	NO	23.78	1.001	3.64e4	1.39e6	2.36	-5.7	1.04	MM
200801K1_4	50.0	1.01	NO	23.78	1.001	7.58e5	1.33e6	51.5	3.1	1.14	bb
200801K1_5	400	1.02	NO	23.78	1.001	6.75e6	1.40e6	435	6.8	1.20	bb
200801K1_6	1000	1.02	NO	23.78	1.001	1.61e7	1.39e6	1050	4.9	1.16	bb

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Compound name: PCB-30  
 Response Factor: 1.79419  
 RRF SD: 0.128021, Relative SD: 7.1353  
 Response type: Internal Std ( Ref 174 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.250	1.15	NO	24.68	1.039	5.58e3	1.32e6	0.238	-5.5	1.70	MM
200601K1_2	1.00	1.03	NO	24.69	1.039	2.35e4	1.42e6	0.926	-7.4	1.66	MM
200601K1_3	2.50	1.05	NO	24.70	1.039	5.87e4	1.39e6	2.35	-6.2	1.68	MM
200601K1_4	50.0	1.03	NO	24.70	1.039	1.24e6	1.33e6	52.0	4.0	1.87	bb
200601K1_5	400	1.01	NO	24.70	1.039	1.09e7	1.40e6	435	8.8	1.95	bb
200601K1_6	1000	1.03	NO	24.70	1.039	2.65e7	1.39e6	1080	6.3	1.91	bb

Compound name: PCB-18  
 Response Factor: 0.81773  
 RRF SD: 0.0320259, Relative SD: 3.91644  
 Response type: Internal Std ( Ref 175 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.250	1.07	NO	25.45	0.952	4.02e3	1.93e6	0.254	1.6	0.831	MM
200601K1_2	1.00	1.04	NO	25.46	0.952	1.62e4	2.07e6	0.957	-4.3	0.782	bd
200601K1_3	2.50	1.04	NO	25.46	0.952	3.92e4	2.03e6	2.37	-5.2	0.775	bd
200601K1_4	50.0	1.01	NO	25.47	0.952	8.23e5	1.97e6	51.0	2.0	0.834	bd
200601K1_5	400	1.03	NO	25.47	0.952	7.32e6	2.13e6	419	4.8	0.857	bd
200601K1_6	1000	1.02	NO	25.48	0.952	1.78e7	2.16e6	1010	1.0	0.826	bd

Compound name: PCB-17  
 Response Factor: 0.758399  
 RRF SD: 0.0346137, Relative SD: 4.56405  
 Response type: Internal Std ( Ref 175 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.250	1.04	NO	25.64	0.959	3.52e3	1.93e6	0.240	-3.8	0.729	MM
200601K1_2	1.00	1.09	NO	25.64	0.958	1.49e4	2.07e6	0.951	-4.9	0.721	db

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Compound name: PCB-17

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X= dropped
200801K1_3	2.50	1.04	NO	25.64	0.958	3.72e4	2.03e6	2.42	-3.2	0.734	MM
200801K1_4	50.0	1.01	NO	25.65	0.959	7.73e5	1.97e6	51.6	3.3	0.783	db
200801K1_5	400	1.04	NO	25.65	0.959	6.87e6	2.13e6	424	6.0	0.804	db
200801K1_6	1000	1.02	NO	25.65	0.959	1.68e7	2.16e6	1030	2.7	0.779	db

Compound name: PCB-24/27

Response Factor: 1.08206

RRF SD: 0.0492171, Relative SD: 4.54845

Response type: Internal Std ( Ref 175 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X= dropped
200801K1_1	0.500	1.04	NO	26.22	0.980	9.84e3	1.93e6	0.471	-5.8	1.02	MM
200801K1_2	2.00	1.02	NO	26.23	0.980	4.42e4	2.07e6	1.97	-1.4	1.07	bb
200801K1_3	5.00	1.02	NO	26.24	0.981	1.05e5	2.03e6	4.79	-4.2	1.04	bb
200801K1_4	100	1.02	NO	26.24	0.981	2.21e6	1.97e6	104	3.6	1.12	bb
200801K1_5	800	1.02	NO	26.24	0.981	1.95e7	2.13e6	845	5.6	1.14	bb
200801K1_6	2000	1.03	NO	26.24	0.981	4.77e7	2.16e6	2050	2.3	1.11	bb

Compound name: PCB-16/32

Response Factor: 0.925439

RRF SD: 0.0403363, Relative SD: 4.35861

Response type: Internal Std ( Ref 175 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X= dropped
200801K1_1	0.500	1.07	NO	26.75	1.000	8.78e3	1.93e6	0.491	-1.8	0.909	bb
200801K1_2	2.00	1.07	NO	26.76	1.000	3.61e4	2.07e6	1.88	-5.9	0.871	bb
200801K1_3	5.00	1.03	NO	26.77	1.001	9.09e4	2.03e6	4.85	-3.0	0.898	MM
200801K1_4	100	1.02	NO	26.77	1.001	1.87e6	1.97e6	103	2.8	0.950	bb
200801K1_5	800	1.02	NO	26.77	1.001	1.68e7	2.13e6	849	6.1	0.982	bb
200801K1_6	2000	1.01	NO	26.77	1.001	4.07e7	2.16e6	2040	2.0	0.944	bb

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Compound name: PCB-34  
 Response Factor: 0.945495  
 RRF SD: 0.0781691, Relative SD: 8.26754  
 Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	nty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.14	NO	27.58	0.959	4.74e3	2.38e6	0.211	-15.8	0.797	MM
200601K1_2	1.00	1.01	NO	27.58	0.959	2.43e4	2.38e6	1.08	8.0	1.02	bd
200601K1_3	2.50	1.02	NO	27.58	0.959	5.47e4	2.33e6	2.48	-0.8	0.939	bd
200601K1_4	50.0	1.05	NO	27.58	0.959	1.08e6	2.26e6	50.5	0.9	0.954	bd
200601K1_5	400	1.08	NO	27.58	0.959	9.47e6	2.40e6	418	4.4	0.987	bd
200601K1_6	1000	1.03	NO	27.58	0.959	2.33e7	2.39e6	1030	3.1	0.975	bd

Compound name: PCB-23  
 Response Factor: 0.882931  
 RRF SD: 0.0420273, Relative SD: 4.75998  
 Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	nty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.03	NO	27.67	0.962	5.14e3	2.38e6	0.245	-2.0	0.865	MM
200601K1_2	1.00	1.07	NO	27.67	0.962	1.97e4	2.38e6	0.935	-6.5	0.826	db
200601K1_3	2.50	1.04	NO	27.67	0.962	4.95e4	2.33e6	2.40	-3.8	0.849	db
200601K1_4	50.0	1.05	NO	27.67	0.962	1.05e6	2.26e6	52.8	5.3	0.930	dd
200601K1_5	400	1.07	NO	27.67	0.962	8.81e6	2.40e6	416	3.9	0.918	db
200601K1_6	1000	1.07	NO	27.67	0.962	2.18e7	2.39e6	1030	3.1	0.910	db

Compound name: PCB-29  
 Response Factor: 0.892811  
 RRF SD: 0.0395517, Relative SD: 4.43002  
 Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	nty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.11	NO	27.91	0.971	4.92e3	2.38e6	0.232	-7.2	0.828	MM
200601K1_2	1.00	1.12	NO	27.93	0.971	2.20e4	2.38e6	1.03	3.1	0.921	bd

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Compound name: PCB-29

Name	Std. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	2.50	1.01	NO	27.93	0.971	5.03e4	2.33e6	2.42	-3.2	0.864	bd
200601K1_4	50.0	1.06	NO	27.93	0.971	1.02e6	2.26e6	50.2	0.5	0.897	dd
200601K1_5	400	1.06	NO	27.93	0.971	8.95e6	2.40e6	418	4.5	0.933	bb
200601K1_6	1000	1.02	NO	27.93	0.971	2.19e7	2.39e6	1020	2.4	0.914	bb

Compound name: PCB-26

Response Factor: 0.943921

RRF SD: 0.0501146, Relative SD: 5.3082

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.09	NO	28.14	0.979	5.11e3	2.38e6	0.227	-9.0	0.859	MM
200601K1_2	1.00	1.04	NO	28.16	0.979	2.24e4	2.38e6	0.996	-0.4	0.940	dd
200601K1_3	2.50	1.07	NO	28.16	0.979	5.36e4	2.33e6	2.44	-2.4	0.921	dd
200601K1_4	50.0	1.06	NO	28.16	0.979	1.10e6	2.26e6	51.3	2.5	0.968	dd
200601K1_5	400	1.07	NO	28.16	0.979	9.80e6	2.40e6	424	5.9	1.00	bd
200601K1_6	1000	1.04	NO	28.16	0.979	2.34e7	2.39e6	1030	3.4	0.976	bd

Compound name: PCB-25

Response Factor: 0.949875

RRF SD: 0.0334033, Relative SD: 3.5166

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.13	NO	28.31	0.984	5.29e3	2.38e6	0.234	-6.4	0.889	MM
200601K1_2	1.00	1.09	NO	28.32	0.984	2.23e4	2.38e6	0.985	-1.5	0.935	db
200601K1_3	2.50	1.03	NO	28.32	0.984	5.65e4	2.33e6	2.55	2.1	0.970	db
200601K1_4	50.0	1.08	NO	28.32	0.984	1.08e6	2.26e6	50.4	0.7	0.957	db
200601K1_5	400	1.04	NO	28.32	0.984	9.41e6	2.40e6	413	3.2	0.960	db
200601K1_6	1000	1.04	NO	28.32	0.984	2.32e7	2.39e6	1020	1.9	0.968	db

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Compound name: PCB-31  
 Response Factor: 1.03628  
 RRF SD: 0.032755, Relative SD: 3.16084  
 Response type: Internal Std ( Ref 178 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std Conc	RA	n/y	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	200801K1_1	0.250	1.10	NO	28.68	0.997	6.02e3	2.38e6	0.244	-2.3	1.01	MM
2	200801K1_2	1.00	1.05	NO	28.68	0.997	2.45e4	2.38e6	0.993	-0.7	1.03	bd
3	200801K1_3	2.50	1.03	NO	28.68	0.997	5.91e4	2.33e6	2.45	-2.1	1.01	MM
4	200801K1_4	50.0	1.14	NO	28.68	0.997	1.15e6	2.26e6	48.9	-2.1	1.01	bd
5	200801K1_5	400	1.07	NO	28.68	0.997	1.05e7	2.40e6	423	5.8	1.10	bd
6	200801K1_6	1000	1.02	NO	28.68	0.997	2.52e7	2.39e6	1010	1.4	1.05	bd

Compound name: PCB-28  
 Response Factor: 1.025  
 RRF SD: 0.0755239, Relative SD: 7.36817  
 Response type: Internal Std ( Ref 178 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std Conc	RA	n/y	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	200801K1_1	0.250	1.17	NO	28.77	1.001	5.28e3	2.38e6	0.217	-13.3	0.889	MM
2	200801K1_2	1.00	1.04	NO	28.79	1.001	2.41e4	2.38e6	0.984	-1.6	1.01	db
3	200801K1_3	2.50	1.08	NO	28.79	1.001	5.88e4	2.33e6	2.46	-1.5	1.01	db
4	200801K1_4	50.0	1.08	NO	28.79	1.001	1.22e6	2.26e6	52.7	5.5	1.08	db
5	200801K1_5	400	1.08	NO	28.79	1.001	1.04e7	2.40e6	424	6.0	1.09	db
6	200801K1_6	1000	1.02	NO	28.79	1.001	2.57e7	2.39e6	1050	4.9	1.08	db

Compound name: PCB-20/21/33  
 Response Factor: 0.941292  
 RRF SD: 0.0455201, Relative SD: 4.83592  
 Response type: Internal Std ( Ref 178 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std Conc	RA	n/y	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	200801K1_1	0.750	1.00	NO	29.40	1.023	1.56e4	2.38e6	0.697	-7.1	0.875	MM
2	200801K1_2	3.00	1.08	NO	29.42	1.023	6.54e4	2.38e6	2.91	-2.9	0.914	bb

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**Compound name: PCB-20/21/33**

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	7.50	1.06	NO	29.42	1.023	1.62e5	2.33e6	7.38	-1.6	0.928	bb
200601K1_4	150	1.07	NO	29.42	1.023	3.24e6	2.28e6	152	1.5	0.955	bb
200601K1_5	1200	1.05	NO	29.42	1.023	2.88e7	2.40e6	1270	6.2	1.00	bb
200601K1_6	3000	1.03	NO	29.42	1.023	7.01e7	2.39e6	3110	3.8	0.977	bb

**Compound name: PCB-22**

Response Factor: 0.972852

RRF SD: 0.0679212, Relative SD: 6.98165

Response type: Internal Std ( Ref 176 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	0.91	NO	29.87	1.039	5.07e3	2.38e6	0.219	-12.4	0.853	MM
200601K1_2	1.00	1.14	NO	29.87	1.038	2.26e4	2.38e6	0.972	-2.8	0.948	db
200601K1_3	2.50	1.08	NO	29.89	1.039	5.67e4	2.33e6	2.50	0.1	0.974	bb
200601K1_4	50.0	1.06	NO	29.89	1.039	1.14e6	2.28e6	51.5	3.1	1.00	bb
200601K1_5	400	1.09	NO	29.89	1.039	9.79e6	2.40e6	419	4.8	1.02	bb
200601K1_6	1000	1.06	NO	29.89	1.039	2.49e7	2.39e6	1070	7.1	1.04	bb

**Compound name: PCB-36**

Response Factor: 1.07599

RRF SD: 0.05125, Relative SD: 4.76304

Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	0.99	NO	30.50	0.931	5.49e3	2.11e6	0.242	-3.2	1.04	bb
200601K1_2	1.00	0.98	NO	30.50	0.931	2.35e4	2.28e6	0.969	-3.1	1.04	bb
200601K1_3	2.50	1.05	NO	30.50	0.931	5.71e4	2.28e6	2.34	-6.3	1.01	MM
200601K1_4	50.0	1.06	NO	30.52	0.932	1.16e6	2.09e6	51.5	3.1	1.11	bb
200601K1_5	400	1.10	NO	30.52	0.932	9.81e6	2.17e6	421	5.2	1.13	db
200601K1_6	1000	1.05	NO	30.52	0.931	2.55e7	2.27e6	1040	4.3	1.12	db

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Compound name: PCB-39  
 Response Factor: 0.968291  
 RRF SD: 0.0625968, Relative SD: 6.33405  
 Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std Conc	RA	n/y	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	200601K1_1	0.250	1.06	NO	30.99	0.946	4.77e3	2.11e6	0.229	-8.5	0.904	bb
2	200601K1_2	1.00	1.01	NO	30.99	0.946	2.15e4	2.26e6	0.964	-3.6	0.953	MM
3	200601K1_3	2.50	1.06	NO	30.99	0.946	5.36e4	2.26e6	2.40	-4.2	0.947	db
4	200601K1_4	50.0	1.09	NO	31.00	0.947	1.07e6	2.09e6	51.7	3.3	1.02	db
5	200601K1_5	400	1.09	NO	31.00	0.947	9.22e6	2.17e6	431	7.6	1.06	db
6	200601K1_6	1000	1.04	NO	31.00	0.948	2.36e7	2.27e6	1050	5.3	1.04	db

Compound name: PCB-38  
 Response Factor: 1.05188  
 RRF SD: 0.0528736, Relative SD: 5.00759  
 Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std Conc	RA	n/y	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	200601K1_1	0.250	1.13	NO	31.78	0.970	5.42e3	2.11e6	0.244	-2.2	1.03	MM
2	200601K1_2	1.00	1.07	NO	31.78	0.970	2.26e4	2.26e6	0.953	-4.7	1.00	dd
3	200601K1_3	2.50	1.04	NO	31.78	0.970	5.62e4	2.26e6	2.38	-5.5	0.994	dd
4	200601K1_4	50.0	1.09	NO	31.78	0.970	1.12e6	2.09e6	51.0	2.1	1.07	dd
5	200601K1_5	400	1.05	NO	31.78	0.970	9.81e6	2.17e6	430	7.5	1.13	dd
6	200601K1_6	1000	1.03	NO	31.78	0.970	2.45e7	2.27e6	1030	2.8	1.08	dd

Compound name: PCB-35  
 Response Factor: 1.04369  
 RRF SD: 0.0671055, Relative SD: 6.42963  
 Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std Conc	RA	n/y	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	200601K1_1	0.250	0.95	NO	32.33	0.987	5.10e3	2.11e6	0.232	-7.2	0.968	bb
2	200601K1_2	1.00	1.07	NO	32.33	0.987	2.27e4	2.26e6	0.964	-3.6	1.01	MM



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Compound name: PCB-35

Name	Std. Conc.	RA	Hy	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_3	2.50	1.01	NO	32.33	0.967	5.53e4	2.26e6	2.34	-6.4	0.977	db
200801K1_4	50.0	1.07	NO	32.33	0.967	1.15e6	2.09e6	52.5	5.0	1.10	dd
200801K1_5	400	1.08	NO	32.33	0.967	9.64e6	2.17e6	426	6.8	1.11	dd
200801K1_6	1000	1.08	NO	32.33	0.966	2.50e7	2.27e6	1060	5.6	1.10	dd

Compound name: PCB-37

Response Factor: 1.00907

RRF SD: 0.0813948, Relative SD: 8.0663

Response type: Internal Std ( Ref 177 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Hy	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.04	NO	32.77	1.000	4.58e3	2.11e6	0.215	-13.9	0.869	MM
200801K1_2	1.00	1.09	NO	32.77	1.000	2.21e4	2.26e6	0.972	-2.8	0.981	MM
200801K1_3	2.50	1.04	NO	32.77	1.000	5.65e4	2.26e6	2.47	-1.0	0.999	MM
200801K1_4	50.0	1.05	NO	32.79	1.001	1.10e6	2.09e6	51.9	3.8	1.05	MM
200801K1_5	400	1.04	NO	32.79	1.001	9.57e6	2.17e6	437	9.4	1.10	MM
200801K1_6	1000	1.04	NO	32.79	1.001	2.39e7	2.27e6	1050	4.6	1.06	MM

Compound name: PCB-54

Response Factor: 1.07963

RRF SD: 0.0563853, Relative SD: 5.22166

Response type: Internal Std ( Ref 178 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Hy	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	0.74	NO	27.62	1.001	4.22e3	1.88e6	0.232	-7.1	1.00	MM
200801K1_2	1.00	0.80	NO	27.64	1.001	1.98e4	1.85e6	0.990	-1.0	1.07	bb
200801K1_3	2.50	0.78	NO	27.64	1.001	4.63e4	1.80e6	2.38	-4.9	1.03	bb
200801K1_4	50.0	0.78	NO	27.64	1.001	9.78e5	1.75e6	51.6	3.2	1.11	bb
200801K1_5	400	0.79	NO	27.64	1.001	8.59e6	1.88e6	422	5.8	1.14	bb
200801K1_6	1000	0.77	NO	27.64	1.001	2.11e7	1.88e6	1040	4.2	1.13	bb

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Compound name: PCB-50  
 Response Factor: 0.879558  
 RRF SD: 0.0380434, Relative SD: 4.3253  
 Response type: Internal Std ( Ref 178 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.79	NO	28.83	1.044	3.74e3	1.68e6	0.252	1.0	0.888	MM
200601K1_2	1.00	0.80	NO	28.83	1.044	1.52e4	1.85e6	0.932	-6.8	0.820	bb
200601K1_3	2.50	0.75	NO	28.83	1.044	3.83e4	1.80e6	2.41	-3.4	0.849	bb
200601K1_4	50.0	0.75	NO	28.84	1.044	7.79e5	1.75e6	50.8	1.2	0.890	bb
200601K1_5	400	0.75	NO	28.84	1.044	6.88e6	1.88e6	415	3.8	0.913	bb
200601K1_6	1000	0.76	NO	28.84	1.044	1.72e7	1.88e6	1040	4.3	0.917	bb

Compound name: PCB-53  
 Response Factor: 0.998734  
 RRF SD: 0.0611951, Relative SD: 6.13956  
 Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.84	NO	29.50	0.944	3.27e3	1.37e6	0.240	-4.0	0.956	MM
200601K1_2	1.00	0.75	NO	29.50	0.943	1.40e4	1.50e6	0.934	-6.8	0.931	MM
200601K1_3	2.50	0.78	NO	29.50	0.943	3.39e4	1.44e6	2.35	-5.8	0.939	bb
200601K1_4	50.0	0.77	NO	29.51	0.944	7.19e5	1.38e6	52.4	4.8	1.04	bb
200601K1_5	400	0.78	NO	29.51	0.944	6.47e6	1.51e6	429	7.3	1.07	bb
200601K1_6	1000	0.78	NO	29.51	0.944	1.80e7	1.54e6	1040	4.3	1.04	bb

Compound name: PCB-51  
 Response Factor: 1.08521  
 RRF SD: 0.0890475, Relative SD: 6.48207  
 Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.77	NO	29.85	0.955	3.29e3	1.37e6	0.226	-9.4	0.965	MM
200601K1_2	1.00	0.81	NO	29.85	0.955	1.58e4	1.50e6	0.978	-2.2	1.04	MM

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Compound name: PCB-51

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	2.50	0.79	NO	29.85	0.955	3.69e4	1.44e6	2.40	-4.1	1.02	bb
200601K1_4	50.0	0.77	NO	29.85	0.955	7.80e5	1.38e6	53.2	6.4	1.13	bb
200601K1_5	400	0.76	NO	29.85	0.955	6.92e6	1.51e6	430	7.4	1.14	bb
200601K1_6	1000	0.78	NO	29.85	0.955	1.87e7	1.54e6	1020	2.0	1.09	bb

Compound name: PCB-45

Response Factor: 0.858411

RRF SD: 0.0476675, Relative SD: 5.55299

Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	0.86	NO	30.30	0.970	2.69e3	1.37e6	0.229	-8.4	0.766	MM
200601K1_2	1.00	0.77	NO	30.30	0.969	1.23e4	1.50e6	0.954	-4.6	0.819	bb
200601K1_3	2.50	0.80	NO	30.30	0.969	3.11e4	1.44e6	2.51	0.3	0.861	bb
200601K1_4	50.0	0.77	NO	30.30	0.969	6.21e5	1.38e6	52.5	5.1	0.902	bb
200601K1_5	400	0.79	NO	30.30	0.969	5.49e6	1.51e6	423	5.8	0.908	bb
200601K1_6	1000	0.79	NO	30.30	0.969	1.34e7	1.54e6	1020	1.9	0.874	bb

Compound name: PCB-46

Response Factor: 0.830725

RRF SD: 0.0416585, Relative SD: 5.01471

Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	0.70	NO	30.80	0.986	2.61e3	1.37e6	0.230	-8.0	0.765	MM
200601K1_2	1.00	0.77	NO	30.80	0.985	1.25e4	1.50e6	1.00	0.4	0.834	bb
200601K1_3	2.50	0.75	NO	30.80	0.985	2.68e4	1.44e6	2.40	-3.9	0.798	bb
200601K1_4	50.0	0.77	NO	30.80	0.985	5.95e5	1.38e6	52.0	4.1	0.865	bb
200601K1_5	400	0.75	NO	30.80	0.985	5.26e6	1.51e6	419	4.8	0.870	bb
200601K1_6	1000	0.78	NO	30.80	0.985	1.31e7	1.54e6	1030	2.7	0.853	bb

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Compound name: PCB-52/69  
 Response Factor: 1.18655  
 RRF SD: 0.0541044, Relative SD: 4.63798  
 Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Inty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.500	0.86	NO	31.28	1.001	7.66e3	1.37e6	0.481	-3.8	1.12	MM
200801K1_2	2.00	0.79	NO	31.30	1.001	3.38e4	1.50e6	1.93	-3.4	1.13	bd
200801K1_3	5.00	0.79	NO	31.30	1.001	7.99e4	1.44e6	4.74	-5.2	1.11	bd
200801K1_4	100	0.76	NO	31.30	1.001	1.67e6	1.38e6	104	3.9	1.21	bd
200801K1_5	800	0.77	NO	31.30	1.001	1.49e7	1.51e6	845	5.6	1.23	bd
200801K1_6	2000	0.78	NO	31.30	1.001	3.69e7	1.54e6	2060	2.9	1.20	bd

Compound name: PCB-73  
 Response Factor: 1.44314  
 RRF SD: 0.12369, Relative SD: 6.57088  
 Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Inty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	0.70	NO	31.41	1.005	4.29e3	1.37e6	0.218	-12.9	1.26	dd
200801K1_2	1.00	0.73	NO	31.41	1.005	2.10e4	1.50e6	0.971	-2.9	1.40	dd
200801K1_3	2.50	0.77	NO	31.41	1.005	4.90e4	1.44e6	2.35	-5.9	1.36	dd
200801K1_4	50.0	0.79	NO	31.41	1.005	1.06e6	1.38e6	53.5	7.0	1.54	dd
200801K1_5	400	0.77	NO	31.41	1.005	9.42e6	1.51e6	432	8.0	1.56	dd
200801K1_6	1000	0.77	NO	31.41	1.005	2.36e7	1.54e6	1070	6.7	1.54	dd

Compound name: PCB-43/49  
 Response Factor: 1.01613  
 RRF SD: 0.0523973, Relative SD: 5.15654  
 Response type: Internal Std ( Ref 179 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Inty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.500	0.86	NO	31.56	1.011	6.71e3	1.37e6	0.483	-3.3	0.982	db
200801K1_2	2.00	0.78	NO	31.58	1.010	2.91e4	1.50e6	1.91	-4.4	0.972	dd

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Compound name: PCB-43/49

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	5.00	0.78	NO	31.58	1.010	6.88e4	1.44e6	4.69	-6.2	0.953	dd
200601K1_4	100	0.77	NO	31.80	1.011	1.47e6	1.38e6	105	5.1	1.07	dd
200601K1_5	800	0.77	NO	31.58	1.010	1.28e7	1.51e6	835	4.4	1.06	dd
200601K1_6	2000	0.77	NO	31.58	1.010	3.26e7	1.54e6	2090	4.4	1.06	dd

Compound name: PCB-47

Response Factor: 0.92191

RRF SD: 0.0589335, Relative SD: 6.39255

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	0.70	NO	31.78	1.001	3.20e3	1.44e6	0.241	-3.4	0.891	bd
200601K1_2	1.00	0.76	NO	31.80	1.001	1.48e4	1.59e6	1.00	0.4	0.928	dd
200601K1_3	2.50	0.79	NO	31.80	1.001	3.29e4	1.53e6	2.33	-6.7	0.880	dd
200601K1_4	50.0	0.77	NO	31.80	1.001	7.69e5	1.49e6	56.0	11.9	1.03	dd
200601K1_5	400	0.76	NO	31.80	1.001	5.90e6	1.80e6	400	-0.1	0.921	dd
200601K1_6	1000	0.76	NO	31.80	1.001	1.50e7	1.66e6	979	-2.1	0.902	dd

Compound name: PCB-48/75

Response Factor: 1.12021

RRF SD: 0.0667822, Relative SD: 5.96157

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.500	0.75	NO	31.90	1.004	7.31e3	1.44e6	0.454	-9.3	1.02	db
200601K1_2	2.00	0.76	NO	31.92	1.005	3.52e4	1.59e6	1.97	-1.5	1.10	db
200601K1_3	5.00	0.79	NO	31.92	1.004	8.41e4	1.53e6	4.91	-1.9	1.10	db
200601K1_4	100	0.77	NO	31.92	1.004	1.66e6	1.49e6	99.7	-0.3	1.12	db
200601K1_5	800	0.78	NO	31.92	1.004	1.54e7	1.60e6	859	7.4	1.20	db
200601K1_6	2000	0.76	NO	31.92	1.004	3.92e7	1.68e6	2110	5.8	1.18	db

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Compound name: PCB-85  
 Response Factor: 1.28219  
 RRF SD: 0.0574331, Relative SD: 4.47931  
 Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std Conc	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	200801K1_1	0.250	0.88	NO	32.18	1.013	4.34e3	1.44e6	0.236	-5.8	1.21	bd
2	200801K1_2	1.00	0.85	NO	32.19	1.013	1.96e4	1.59e6	0.959	-4.1	1.23	bd
3	200801K1_3	2.50	0.71	NO	32.19	1.013	4.83e4	1.53e6	2.47	-1.4	1.28	bd
4	200801K1_4	50.0	0.76	NO	32.19	1.013	9.93e5	1.49e6	52.0	4.0	1.33	bd
5	200801K1_5	400	0.77	NO	32.19	1.013	8.65e6	1.60e6	421	5.4	1.35	bd
6	200801K1_6	1000	0.77	NO	32.19	1.013	2.17e7	1.68e6	1020	2.0	1.31	bd

Compound name: PCB-82  
 Response Factor: 1.12765  
 RRF SD: 0.0353947, Relative SD: 3.13879  
 Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std Conc	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	200801K1_1	0.250	0.72	NO	32.29	1.016	4.14e3	1.44e6	0.255	2.1	1.15	db
2	200801K1_2	1.00	0.70	NO	32.29	1.016	1.80e4	1.59e6	0.999	-0.1	1.13	dd
3	200801K1_3	2.50	0.79	NO	32.29	1.016	4.05e4	1.53e6	2.35	-6.1	1.06	dd
4	200801K1_4	50.0	0.76	NO	32.31	1.016	8.53e5	1.49e6	50.8	1.8	1.15	db
5	200801K1_5	400	0.79	NO	32.31	1.016	7.38e6	1.60e6	409	2.2	1.15	db
6	200801K1_6	1000	0.76	NO	32.31	1.016	1.88e7	1.68e6	1000	0.3	1.13	db

Compound name: PCB-44  
 Response Factor: 0.824154  
 RRF SD: 0.0474856, Relative SD: 5.75932  
 Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std Conc	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
1	200801K1_1	0.250	0.88	NO	32.62	1.027	3.12e3	1.44e6	0.263	5.2	0.867	MM
2	200801K1_2	1.00	0.78	NO	32.62	1.027	1.16e4	1.59e6	0.895	-10.5	0.738	dd

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**Compound name: PCB-44**

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X= dropped
200601K1_3	2.50	0.75	NO	32.62	1.026	3.09e4	1.53e6	2.45	-1.9	0.806	dd
200601K1_4	50.0	0.79	NO	32.62	1.026	6.30e5	1.49e6	51.3	2.6	0.845	MM
200601K1_5	400	0.77	NO	32.62	1.026	5.51e6	1.60e6	418	4.4	0.860	db
200601K1_6	1000	0.77	NO	32.62	1.026	1.37e7	1.66e6	1000	0.2	0.826	db

**Compound name: PCB-42/59**

Response Factor: 1.04973

RRF SD: 0.0483426, Relative SD: 4.70053

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X= dropped
200601K1_1	0.500	0.76	NO	32.85	1.034	7.25e3	1.44e6	0.481	-3.9	1.01	bb
200601K1_2	2.00	0.81	NO	32.85	1.034	3.17e4	1.59e6	1.89	-5.4	0.994	db
200601K1_3	5.00	0.78	NO	32.85	1.033	7.78e4	1.53e6	4.85	-3.0	1.02	db
200601K1_4	100	0.78	NO	32.85	1.033	1.60e6	1.49e6	103	2.8	1.08	MM
200601K1_5	800	0.78	NO	32.85	1.033	1.43e7	1.60e6	850	6.2	1.12	bb
200601K1_6	2000	0.78	NO	32.85	1.033	3.60e7	1.66e6	2070	3.5	1.09	bb

**Compound name: PCB-41/64/71/72**

Response Factor: 1.18742

RRF SD: 0.0661253, Relative SD: 5.56883

Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X= dropped
200601K1_1	1.00	0.74	NO	33.46	1.053	1.80e4	1.44e6	0.939	-6.1	1.12	MM
200601K1_2	4.00	0.74	NO	33.46	1.053	7.29e4	1.59e6	3.85	-3.7	1.14	bb
200601K1_3	10.0	0.78	NO	33.46	1.053	1.74e5	1.53e6	9.57	-4.3	1.14	MM
200601K1_4	200	0.79	NO	33.46	1.053	3.62e6	1.49e6	205	2.3	1.22	bb
200601K1_5	1800	0.77	NO	33.46	1.053	3.29e7	1.60e6	1730	8.2	1.29	bb
200601K1_6	4000	0.77	NO	33.46	1.053	8.18e7	1.66e6	4140	3.5	1.23	bb

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Compound name: PCB-68  
 Response Factor: 1.27785  
 RRF SD: 0.0478803, Relative SD: 3.74694  
 Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	0.75	NO	33.72	1.061	4.51e3	1.44e6	0.245	-1.9	1.25	bb
2	200601K1_2	1.00	0.75	NO	33.72	1.061	1.97e4	1.59e6	0.969	-3.1	1.24	bb
3	200601K1_3	2.50	0.77	NO	33.72	1.061	4.67e4	1.53e6	2.39	-4.4	1.22	MM
4	200601K1_4	50.0	0.76	NO	33.72	1.061	9.69e5	1.49e6	50.9	1.8	1.30	bd
5	200601K1_5	400	0.77	NO	33.72	1.061	8.63e6	1.60e6	422	5.5	1.35	bd
6	200601K1_6	1000	0.78	NO	33.72	1.061	2.16e7	1.66e6	1020	2.1	1.30	bd

Compound name: PCB-40  
 Response Factor: 0.802057  
 RRF SD: 0.0348124, Relative SD: 5.74902  
 Response type: Internal Std ( Ref 180 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	0.71	NO	33.94	1.069	2.03e3	1.44e6	0.235	-6.2	0.565	bb
2	200601K1_2	1.00	0.74	NO	33.94	1.069	9.28e3	1.59e6	0.967	-3.3	0.562	MM
3	200601K1_3	2.50	0.77	NO	33.94	1.068	2.17e4	1.53e6	2.36	-5.7	0.566	db
4	200601K1_4	50.0	0.77	NO	33.94	1.068	4.64e5	1.49e6	51.7	3.3	0.622	db
5	200601K1_5	400	0.77	NO	33.94	1.068	4.12e6	1.60e6	426	7.0	0.644	db
6	200601K1_6	1000	0.78	NO	33.94	1.068	1.05e7	1.66e6	1050	4.8	0.631	db

Compound name: PCB-57  
 Response Factor: 1.16294  
 RRF SD: 0.0605093, Relative SD: 5.20312  
 Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	0.79	NO	34.30	0.969	4.64e3	1.70e6	0.234	-6.4	1.09	bb
2	200601K1_2	1.00	0.74	NO	34.32	0.969	2.02e4	1.84e6	0.946	-5.4	1.10	bb



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**Compound name: PCB-57**

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	0.74	NO	34.32	0.969	5.14e4	1.79e6	2.46	-1.4	1.15	MM
200601K1_4	50.0	0.77	NO	34.32	0.969	1.04e6	1.73e6	51.4	2.8	1.20	bb
200601K1_5	400	0.79	NO	34.32	0.969	9.05e6	1.84e6	423	5.8	1.23	bb
200601K1_6	1000	0.76	NO	34.32	0.969	2.31e7	1.90e6	1050	4.6	1.22	bb

**Compound name: PCB-67**

Response Factor: 1.0841

RRF SD: 0.0420751, Relative SD: 3.8811

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.86	NO	34.63	0.978	4.35e3	1.70e6	0.235	-5.8	1.02	bd
200601K1_2	1.00	0.75	NO	34.63	0.978	1.95e4	1.84e6	0.979	-2.1	1.06	bd
200601K1_3	2.50	0.78	NO	34.63	0.978	4.82e4	1.79e6	2.48	-0.9	1.07	bd
200601K1_4	50.0	0.75	NO	34.63	0.978	9.48e5	1.73e6	50.4	0.9	1.09	bd
200601K1_5	400	0.76	NO	34.63	0.978	8.40e6	1.84e6	422	5.4	1.14	bd
200601K1_6	1000	0.78	NO	34.63	0.978	2.11e7	1.90e6	1020	2.5	1.11	bd

**Compound name: PCB-58**

Response Factor: 1.20403

RRF SD: 0.0834546, Relative SD: 6.93126

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.80	NO	34.74	0.982	4.98e3	1.70e6	0.243	-2.8	1.17	dd
200601K1_2	1.00	0.80	NO	34.74	0.981	2.02e4	1.84e6	0.910	-9.0	1.10	dd
200601K1_3	2.50	0.78	NO	34.76	0.982	5.08e4	1.79e6	2.35	-5.9	1.13	dd
200601K1_4	50.0	0.75	NO	34.76	0.982	1.09e6	1.73e6	52.1	4.1	1.25	dd
200601K1_5	400	0.78	NO	34.76	0.982	9.62e6	1.84e6	435	8.7	1.31	dd
200601K1_6	1000	0.78	NO	34.76	0.982	2.40e7	1.90e6	1050	5.0	1.26	dd

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Compound name: PCB-63  
 Response Factor: 1.07187  
 RRF SD: 0.049724, Relative SD: 4.639  
 Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	Inty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	0.82	NO	34.91	0.988	4.33e3	1.70e6	0.237	-5.1	1.02	db
2	200601K1_2	1.00	0.75	NO	34.91	0.988	1.92e4	1.84e6	0.972	-2.8	1.04	dd
3	200601K1_3	2.50	0.79	NO	34.91	0.988	4.66e4	1.79e6	2.42	-3.2	1.04	db
4	200601K1_4	50.0	0.77	NO	34.91	0.988	9.31e5	1.73e6	50.1	0.2	1.07	db
5	200601K1_5	400	0.78	NO	34.91	0.988	8.42e6	1.84e6	427	6.8	1.14	db
6	200601K1_6	1000	0.77	NO	34.91	0.988	2.12e7	1.90e6	1040	4.1	1.12	db

Compound name: PCB-74  
 Response Factor: 1.18508  
 RRF SD: 0.0699946, Relative SD: 5.90632  
 Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	Inty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	0.82	NO	35.21	0.995	4.68e3	1.70e6	0.232	-7.3	1.10	bd
2	200601K1_2	1.00	0.74	NO	35.21	0.994	2.06e4	1.84e6	0.943	-5.7	1.12	MM
3	200601K1_3	2.50	0.74	NO	35.21	0.994	5.22e4	1.79e6	2.46	-1.8	1.16	MM
4	200601K1_4	50.0	0.77	NO	35.21	0.994	1.05e6	1.73e6	51.3	2.6	1.22	bd
5	200601K1_5	400	0.76	NO	35.21	0.994	9.38e6	1.84e6	430	7.6	1.28	bd
6	200601K1_6	1000	0.77	NO	35.21	0.994	2.36e7	1.90e6	1050	4.5	1.24	bd

Compound name: PCB-81/70  
 Response Factor: 1.05421  
 RRF SD: 0.062537, Relative SD: 5.9321  
 Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	Inty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.500	0.86	NO	35.41	1.000	8.47e3	1.70e6	0.472	-5.7	0.994	MM
2	200601K1_2	2.00	0.78	NO	35.34	0.998	3.65e4	1.84e6	1.88	-5.8	0.993	MM

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**Compound name: PCB-61/70**

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	5.00	0.78	NO	35.34	0.998	9.20e4	1.79e6	4.86	-2.7	1.03	MM
200601K1_4	100	0.78	NO	35.43	1.000	1.90e6	1.73e6	104	3.9	1.10	MM
200601K1_5	800	0.78	NO	35.43	1.000	1.67e7	1.84e6	859	7.4	1.13	MM
200601K1_6	2000	0.78	NO	35.43	1.000	4.18e7	1.90e6	2080	4.2	1.10	MM

**Compound name: PCB-76/86**

Response Factor: 1.16443

RRF SD: 0.0785507, Relative SD: 6.5741

Response type: Internal Std ( Ref 181 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.500	0.78	NO	35.62	1.006	9.04e3	1.70e6	0.456	-8.9	1.06	MM
200601K1_2	2.00	0.75	NO	35.58	1.005	4.11e4	1.84e6	1.92	-4.0	1.12	dd
200601K1_3	5.00	0.78	NO	35.60	1.005	9.65e4	1.79e6	4.72	-5.7	1.10	MM
200601K1_4	100	0.78	NO	35.60	1.005	2.09e6	1.73e6	104	3.8	1.21	dd
200601K1_5	800	0.77	NO	35.64	1.006	1.65e7	1.84e6	862	7.7	1.25	dd
200601K1_6	2000	0.78	NO	35.64	1.006	4.89e7	1.90e6	2120	5.9	1.23	dd

**Compound name: PCB-80**

Response Factor: 1.18682

RRF SD: 0.0586291, Relative SD: 4.94003

Response type: Internal Std ( Ref 182 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.83	NO	35.86	1.000	4.91e3	1.75e6	0.236	-5.5	1.12	MM
200601K1_2	1.00	0.77	NO	35.86	1.000	2.09e4	1.87e6	0.941	-5.9	1.12	db
200601K1_3	2.50	0.78	NO	35.86	1.000	5.45e4	1.86e6	2.47	-1.2	1.17	MM
200601K1_4	50.0	0.78	NO	35.86	1.000	1.10e6	1.79e6	51.5	3.1	1.22	db
200601K1_5	400	0.78	NO	35.86	1.000	9.53e6	1.90e6	422	5.5	1.25	db
200601K1_6	1000	0.78	NO	35.86	1.000	2.45e7	1.99e6	1040	4.0	1.23	dd

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**Compound name: PCB-55**

Response Factor: 1.16899

RRF SD: 0.0699531, Relative SD: 5.98407

Response type: Internal Std ( Ref 182 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std Conc	RA	ny	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
1	200601K1_1	0.250	0.86	NO	36.18	1.009	4.80e3	1.75e6	0.235	-6.1	1.10	MM
2	200601K1_2	1.00	0.81	NO	36.18	1.010	2.10e4	1.87e6	0.959	-4.1	1.12	MM
3	200601K1_3	2.50	0.76	NO	36.18	1.010	5.16e4	1.86e6	2.37	-5.1	1.11	MM
4	200601K1_4	50.0	0.77	NO	36.18	1.010	1.07e6	1.79e6	51.0	2.1	1.19	MM
5	200601K1_5	400	0.77	NO	36.18	1.010	9.66e6	1.90e6	434	8.6	1.27	MM
6	200601K1_6	1000	0.77	NO	36.18	1.010	2.43e7	1.99e6	1050	4.8	1.22	MM

**Compound name: PCB-56/60**

Response Factor: 1.01793

RRF SD: 0.0552104, Relative SD: 5.42377

Response type: Internal Std ( Ref 182 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std Conc	RA	ny	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
1	200601K1_1	0.500	0.85	NO	36.70	1.024	8.20e3	1.75e6	0.460	-8.0	0.937	MM
2	200601K1_2	2.00	0.78	NO	36.70	1.024	3.71e4	1.87e6	1.95	-2.7	0.991	MM
3	200601K1_3	5.00	0.78	NO	36.70	1.024	9.24e4	1.86e6	4.88	-2.4	0.993	bb
4	200601K1_4	100	0.77	NO	36.70	1.024	1.86e6	1.79e6	102	2.1	1.04	bb
5	200601K1_5	800	0.77	NO	36.70	1.024	1.86e7	1.90e6	859	7.3	1.09	bb
6	200601K1_6	2000	0.77	NO	36.70	1.024	4.19e7	1.99e6	2070	3.8	1.05	bb

**Compound name: PCB-79**

Response Factor: 1.13843

RRF SD: 0.0710526, Relative SD: 6.24129

Response type: Internal Std ( Ref 182 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std Conc	RA	ny	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
1	200601K1_1	0.250	0.80	NO	37.80	1.054	4.62e3	1.75e6	0.232	-7.2	1.06	MM
2	200601K1_2	1.00	0.87	NO	37.80	1.054	2.03e4	1.87e6	0.950	-5.0	1.08	MM

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Compound name: PCB-79

Name	Std Conc	RA	nty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	0.80	NO	37.80	1.054	5.06e4	1.86e6	2.39	-4.3	1.09	MM
200601K1_4	50.0	0.77	NO	37.80	1.054	1.06e6	1.79e6	51.8	3.6	1.18	bb
200601K1_5	400	0.77	NO	37.81	1.055	9.30e6	1.90e6	430	7.4	1.22	bb
200601K1_6	1000	0.77	NO	37.81	1.055	2.39e7	1.99e6	1060	5.6	1.20	bb

Compound name: PCB-78

Response Factor: 1.13645

RRF SD: 0.0648397, Relative SD: 5.70544

Response type: Internal Std ( Ref 183 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	nty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.84	NO	39.50	0.988	4.37e3	1.65e6	0.234	-6.6	1.08	MM
200601K1_2	1.00	0.72	NO	39.52	0.987	1.92e4	1.76e6	0.959	-4.1	1.09	MM
200601K1_3	2.50	0.77	NO	39.52	0.987	4.87e4	1.80e6	2.38	-4.7	1.08	MM
200601K1_4	50.0	0.77	NO	39.52	0.987	1.02e6	1.70e6	52.5	4.9	1.19	MM
200601K1_5	400	0.79	NO	39.52	0.987	8.97e6	1.88e6	420	5.1	1.19	MM
200601K1_6	1000	0.78	NO	39.52	0.987	2.33e7	1.94e6	1050	5.5	1.20	MM

Compound name: PCB-81

Response Factor: 1.04638

RRF SD: 0.0531934, Relative SD: 5.08358

Response type: Internal Std ( Ref 183 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	nty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.71	NO	39.08	1.000	3.97e3	1.85e6	0.230	-7.9	0.964	MM
200601K1_2	1.00	0.76	NO	39.08	1.000	1.82e4	1.76e6	0.987	-1.3	1.03	MM
200601K1_3	2.50	0.75	NO	39.08	1.000	4.55e4	1.80e6	2.41	-3.4	1.01	MM
200601K1_4	50.0	0.77	NO	39.08	1.000	9.27e5	1.70e6	52.0	4.1	1.09	MM
200601K1_5	400	0.76	NO	39.08	1.000	8.26e6	1.88e6	420	5.0	1.10	MM
200601K1_6	1000	0.75	NO	39.08	1.000	2.10e7	1.94e6	1040	3.5	1.08	dd

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**Compound name: PCB-77**

Response Factor: 1.13899

RRF SD: 0.0451791, Relative SD: 3.97357

Response type: Internal Std ( Ref 184 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	0.250	0.83	NO	39.67	1.000	4.37e3	1.59e6	0.241	-3.5	1.10	MM
200801K1_2	1.00	0.80	NO	39.67	1.000	1.89e4	1.71e6	0.972	-2.8	1.11	MM
200801K1_3	2.50	0.80	NO	39.67	1.000	4.78e4	1.75e6	2.40	-4.0	1.09	MM
200801K1_4	50.0	0.77	NO	39.67	1.000	1.00e6	1.69e6	52.1	4.2	1.18	MM
200801K1_5	400	0.77	NO	39.67	1.000	8.76e6	1.84e6	420	5.0	1.19	MM
200801K1_6	1000	0.78	NO	39.67	1.000	2.23e7	1.94e6	1010	1.1	1.15	MM

**Compound name: PCB-104**

Response Factor: 1.12208

RRF SD: 0.11916, Relative SD: 10.6196

Response type: Internal Std ( Ref 185 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	0.250	1.37	NO	32.47	1.001	2.59e3	1.12e6	0.206	-17.7	0.924	MM
200801K1_2	1.00	1.55	NO	32.47	1.001	1.33e4	1.28e6	0.942	-5.8	1.06	bb
200801K1_3	2.50	1.52	NO	32.47	1.001	3.30e4	1.20e6	2.48	-1.8	1.10	bb
200801K1_4	50.0	1.57	NO	32.47	1.001	7.02e5	1.17e6	53.2	6.5	1.19	bb
200801K1_5	400	1.55	NO	32.47	1.001	6.29e6	1.28e6	437	9.3	1.23	bb
200801K1_6	1000	1.56	NO	32.47	1.001	1.57e7	1.28e6	1090	9.3	1.23	bb

**Compound name: PCB-96**

Response Factor: 1.15383

RRF SD: 0.0979018, Relative SD: 8.48491

Response type: Internal Std ( Ref 185 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	0.250	1.77	NO	33.78	1.041	2.64e3	1.12e6	0.220	-12.2	1.01	MM
200801K1_2	1.00	1.54	NO	33.78	1.041	1.35e4	1.28e6	0.932	-6.8	1.08	bb

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Compound name: PCB-96

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	1.49	NO	33.78	1.041	3.37e4	1.20e6	2.45	-2.2	1.13	bb
200601K1_4	50.0	1.58	NO	33.78	1.041	7.07e5	1.17e6	52.2	4.3	1.20	bb
200601K1_5	400	1.57	NO	33.78	1.041	6.41e6	1.28e6	434	8.4	1.25	bb
200601K1_6	1000	1.57	NO	33.78	1.041	1.80e7	1.28e6	1080	8.4	1.25	bb

Compound name: PCB-103

Response Factor: 0.936494

RRF SD: 0.0702306, Relative SD: 7.49931

Response type: Internal Std ( Ref 185 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.88	NO	34.33	1.059	2.72e3	1.12e6	0.259	3.5	0.969	MM
200601K1_2	1.00	1.75	NO	34.33	1.058	1.06e4	1.26e6	0.898	-10.2	0.841	MM
200601K1_3	2.50	1.71	NO	34.33	1.058	2.57e4	1.20e6	2.30	-8.0	0.862	bb
200601K1_4	50.0	1.56	NO	34.33	1.058	5.53e5	1.17e6	50.3	0.8	0.942	bb
200601K1_5	400	1.58	NO	34.33	1.058	5.08e6	1.28e6	423	5.7	0.990	bb
200601K1_6	1000	1.55	NO	34.33	1.058	1.30e7	1.28e6	1080	6.3	1.01	bb

Compound name: PCB-100

Response Factor: 0.953574

RRF SD: 0.0599585, Relative SD: 6.28777

Response type: Internal Std ( Ref 185 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.33	NO	34.69	1.069	2.84e3	1.12e6	0.247	-1.3	0.941	bb
200601K1_2	1.00	1.48	NO	34.69	1.069	1.09e4	1.28e6	0.913	-8.7	0.870	MM
200601K1_3	2.50	1.72	NO	34.71	1.069	2.72e4	1.20e6	2.38	-4.7	0.908	bb
200601K1_4	50.0	1.58	NO	34.71	1.069	5.88e5	1.17e6	50.5	1.0	0.983	bb
200601K1_5	400	1.57	NO	34.71	1.069	5.18e6	1.28e6	422	5.5	1.01	bb
200601K1_6	1000	1.55	NO	34.71	1.069	1.32e7	1.28e6	1080	6.2	1.03	bb

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**Compound name: PCB-94**

Response Factor: 0.948862

RRF SD: 0.0587427, Relative SD: 6.19086

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	1.87	NO	35.17	0.985	2.16e3	8.86e5	0.257	2.8	0.975	MM
2	200601K1_2	1.00	1.51	NO	35.19	0.985	8.32e3	9.63e5	0.910	-9.0	0.863	bb
3	200601K1_3	2.50	1.49	NO	35.19	0.985	2.12e4	9.53e5	2.35	-6.1	0.891	bb
4	200601K1_4	50.0	1.57	NO	35.19	0.985	4.48e5	9.36e5	50.5	0.9	0.958	bb
5	200601K1_5	400	1.57	NO	35.19	0.985	4.07e6	1.01e6	424	6.0	1.01	bb
6	200601K1_6	1000	1.57	NO	35.19	0.985	1.05e7	1.05e6	1050	5.4	1.00	bb

**Compound name: PCB-95/98/102**

Response Factor: 1.20445

RRF SD: 0.061353, Relative SD: 5.09384

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.750	1.52	NO	35.66	0.998	7.52e3	8.86e5	0.704	-6.1	1.13	MM
2	200601K1_2	3.00	1.52	NO	35.67	0.999	3.47e4	9.63e5	2.99	-0.3	1.20	bd
3	200601K1_3	7.50	1.61	NO	35.67	0.999	8.12e4	9.53e5	7.08	-5.6	1.14	dd
4	200601K1_4	150	1.57	NO	35.67	0.998	1.72e6	9.36e5	152	1.5	1.22	bd
5	200601K1_5	1200	1.56	NO	35.67	0.998	1.56e7	1.01e6	1260	6.5	1.28	bd
6	200601K1_6	3000	1.57	NO	35.67	0.998	3.94e7	1.05e6	3120	4.0	1.25	bd

**Compound name: PCB-83**

Response Factor: 0.935009

RRF SD: 0.088569, Relative SD: 9.47253

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	1.42	NO	35.82	1.003	1.78e3	8.86e5	0.215	-14.0	0.805	MM
2	200601K1_2	1.00	1.59	NO	35.81	1.003	8.62e3	9.63e5	0.957	-4.3	0.895	dd



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Compound name: PCB-83

Name	Std. Conc.	RA	rt/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_3	2.50	1.70	NO	35.81	1.003	2.10e4	9.53e5	2.36	-5.5	0.884	dd
200801K1_4	50.0	1.83	NO	35.81	1.002	4.57e5	9.36e5	52.3	4.5	0.977	db
200801K1_5	400	1.80	NO	35.82	1.003	4.17e6	1.01e6	441	10.3	1.03	db
200801K1_6	1000	1.59	NO	35.82	1.003	1.07e7	1.05e6	1090	8.9	1.02	db

Compound name: PCB-88/91

Response Factor: 1.06482

RRF SD: 0.0420968, Relative SD: 3.95341

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	rt/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.500	1.77	NO	36.14	1.012	4.58e3	8.86e5	0.485	-3.0	1.03	dd
200801K1_2	2.00	1.52	NO	36.14	1.012	2.02e4	9.63e5	1.97	-1.5	1.05	MM
200801K1_3	5.00	1.53	NO	36.14	1.012	4.83e4	9.53e5	4.76	-4.8	1.01	dd
200801K1_4	100	1.56	NO	36.16	1.012	9.97e5	9.36e5	100	0.0	1.07	MM
200801K1_5	800	1.55	NO	36.16	1.012	9.06e6	1.01e6	842	5.2	1.12	bd
200801K1_6	2000	1.56	NO	36.16	1.012	2.32e7	1.05e6	2080	4.0	1.11	bd

Compound name: PCB-121

Response Factor: 1.70958

RRF SD: 0.131372, Relative SD: 7.68456

Response type: Internal Std ( Ref 186 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	rt/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.84	NO	36.23	1.015	4.15e3	8.86e5	0.274	9.5	1.87	db
200801K1_2	1.00	1.86	NO	36.23	1.015	1.50e4	9.63e5	0.910	-9.0	1.56	db
200801K1_3	2.50	1.85	NO	36.25	1.015	3.70e4	9.53e5	2.27	-9.2	1.55	dd
200801K1_4	50.0	1.56	NO	36.25	1.015	7.99e5	9.36e5	50.0	-0.1	1.71	db
200801K1_5	400	1.59	NO	36.25	1.015	7.25e6	1.01e6	420	4.9	1.79	db
200801K1_6	1000	1.59	NO	36.25	1.015	1.86e7	1.05e6	1040	3.8	1.77	db

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**Compound name: PCB-84/92**

Response Factor: 1.01774

RRF SD: 0.0662787, Relative SD: 6.51234

Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.500	1.74	NO	37.09	0.990	3.96e3	8.58e5	0.454	-9.1	0.925	MM
200601K1_2	2.00	1.51	NO	37.09	0.990	1.83e4	9.58e5	1.88	-8.1	0.958	bd
200601K1_3	5.00	1.58	NO	37.09	0.990	4.76e4	9.39e5	4.98	-0.3	1.01	bd
200601K1_4	100	1.57	NO	37.09	0.990	9.53e5	9.13e5	102	2.5	1.04	bd
200601K1_5	800	1.57	NO	37.09	0.990	8.79e6	1.01e6	858	7.2	1.09	bd
200601K1_6	2000	1.58	NO	37.09	0.990	2.23e7	1.04e6	2120	5.8	1.08	bd

**Compound name: PCB-89**

Response Factor: 1.1051

RRF SD: 0.0694328, Relative SD: 6.28293

Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.250	1.77	NO	37.28	0.995	2.45e3	8.58e5	0.259	3.5	1.14	MM
200601K1_2	1.00	1.58	NO	37.28	0.995	9.38e3	9.58e5	0.885	-11.5	0.978	dd
200601K1_3	2.50	1.58	NO	37.29	0.998	2.53e4	9.39e5	2.44	-2.5	1.08	dd
200601K1_4	50.0	1.54	NO	37.29	0.998	5.14e5	9.13e5	50.9	1.9	1.13	dd
200601K1_5	400	1.57	NO	37.29	0.998	4.71e6	1.01e6	424	5.9	1.17	dd
200601K1_6	1000	1.58	NO	37.29	0.998	1.18e7	1.04e6	1030	2.7	1.13	dd

**Compound name: PCB-90/101**

Response Factor: 1.12263

RRF SD: 0.0479543, Relative SD: 4.27159

Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.500	1.57	NO	37.46	1.000	4.62e3	8.58e5	0.481	-3.8	1.08	db
200601K1_2	2.00	1.58	NO	37.46	1.000	2.07e4	9.58e5	1.93	-3.7	1.08	dd

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Compound name: PCB-90/101

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	5.00	1.66	NO	37.48	1.000	5.09e4	9.39e5	4.83	-3.4	1.08	dd
200601K1_4	100	1.58	NO	37.48	1.000	1.04e6	9.13e5	101	1.5	1.14	dd
200601K1_5	800	1.58	NO	37.48	1.000	9.62e6	1.01e6	851	6.4	1.19	dd
200601K1_6	2000	1.58	NO	37.48	1.000	2.40e7	1.04e6	2060	3.0	1.16	dd

Compound name: PCB-113

Response Factor: 1.51404

RRF SD: 0.104163, Relative SD: 6.87979

Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.39	NO	37.72	1.007	2.80e3	8.56e5	0.216	-13.7	1.31	MM
200601K1_2	1.00	1.48	NO	37.72	1.007	1.47e4	9.58e5	1.02	1.5	1.54	dd
200601K1_3	2.50	1.59	NO	37.72	1.007	3.61e4	9.39e5	2.54	1.5	1.54	dd
200601K1_4	50.0	1.57	NO	37.72	1.007	7.07e5	9.13e5	51.1	2.2	1.55	dd
200601K1_5	400	1.57	NO	37.72	1.007	6.45e6	1.01e6	423	5.8	1.60	dd
200601K1_6	1000	1.57	NO	37.72	1.007	1.61e7	1.04e6	1030	2.6	1.55	dd

Compound name: PCB-99

Response Factor: 1.32101

RRF SD: 0.111661, Relative SD: 8.45271

Response type: Internal Std ( Ref 187 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.51	NO	37.81	1.009	3.12e3	8.56e5	0.276	10.3	1.46	MM
200601K1_2	1.00	1.53	NO	37.81	1.009	1.15e4	9.58e5	0.907	-9.3	1.20	db
200601K1_3	2.50	1.66	NO	37.81	1.009	2.78e4	9.39e5	2.24	-10.5	1.18	db
200601K1_4	50.0	1.62	NO	37.81	1.009	6.00e5	9.13e5	49.7	-0.5	1.31	db
200601K1_5	400	1.60	NO	37.83	1.010	5.65e6	1.01e6	425	6.2	1.40	db
200601K1_6	1000	1.57	NO	37.83	1.010	1.42e7	1.04e6	1040	3.8	1.37	db

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Compound name: PCB-119

Response Factor: 1.80526

RRF SD: 0.0967589, Relative SD: 5.35982

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.64	NO	38.30	0.987	3.62e3	7.55e5	0.265	6.1	1.92	bd
200601K1_2	1.00	1.55	NO	38.30	0.987	1.42e4	8.31e5	0.948	-5.2	1.71	dd
200601K1_3	2.50	1.50	NO	38.30	0.987	3.42e4	8.21e5	2.31	-7.7	1.67	bd
200601K1_4	50.0	1.57	NO	38.30	0.987	7.20e5	7.95e5	50.2	0.4	1.81	bd
200601K1_5	400	1.55	NO	38.30	0.987	6.73e6	9.02e5	413	3.3	1.87	bd
200601K1_6	1000	1.56	NO	38.30	0.987	1.70e7	9.13e5	1030	3.1	1.86	bd

Compound name: PCB-108/112

Response Factor: 1.44497

RRF SD: 0.091955, Relative SD: 6.36379

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.500	1.61	NO	38.45	0.991	5.26e3	7.55e5	0.482	-3.6	1.39	dd
200601K1_2	2.00	1.50	NO	38.45	0.991	2.21e4	8.31e5	1.84	-7.9	1.33	dd
200601K1_3	5.00	1.57	NO	38.45	0.991	5.62e4	8.21e5	4.74	-5.3	1.37	dd
200601K1_4	100	1.57	NO	38.47	0.991	1.19e6	7.95e5	104	3.8	1.50	dd
200601K1_5	800	1.56	NO	38.47	0.991	1.11e7	9.02e5	851	6.4	1.54	dd
200601K1_6	2000	1.57	NO	38.47	0.991	2.81e7	9.13e5	2130	6.6	1.54	dd

Compound name: PCB-83

Response Factor: 1.83179

RRF SD: 0.0986786, Relative SD: 5.387

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.60	NO	38.61	0.995	3.44e3	7.55e5	0.249	-0.4	1.82	dd
200601K1_2	1.00	1.63	NO	38.61	0.995	1.41e4	8.31e5	0.929	-7.1	1.70	dd

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Compound name: PCB-83

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	2.50	1.52	NO	38.61	0.995	3.54e4	8.21e5	2.38	-5.8	1.73	dd
200601K1_4	50.0	1.59	NO	38.63	0.998	7.53e5	7.95e5	51.7	3.4	1.89	dd
200601K1_5	400	1.57	NO	38.63	0.998	8.96e6	9.02e5	421	5.3	1.93	dd
200601K1_6	1000	1.57	NO	38.63	0.998	1.75e7	9.13e5	1050	4.6	1.92	dd

Compound name: PCB-87

Response Factor: 1.28197

RRF SD: 0.0538988, Relative SD: 4.20437

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.36	NO	38.82	1.000	2.35e3	7.55e5	0.243	-2.9	1.25	MM
200601K1_2	1.00	1.42	NO	38.82	1.000	1.01e4	8.31e5	0.949	-5.1	1.22	dd
200601K1_3	2.50	1.48	NO	38.84	1.001	2.56e4	8.21e5	2.43	-2.8	1.25	dd
200601K1_4	50.0	1.58	NO	38.84	1.001	5.17e5	7.95e5	50.7	1.4	1.30	dd
200601K1_5	400	1.58	NO	38.84	1.001	4.86e6	9.02e5	420	5.0	1.35	dd
200601K1_6	1000	1.58	NO	38.84	1.001	1.22e7	9.13e5	1040	4.4	1.34	dd

Compound name: PCB-88

Response Factor: 1.11715

RRF SD: 0.0744773, Relative SD: 6.6667

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.47	NO	38.97	1.004	1.84e3	7.55e5	0.219	-12.8	0.977	dd
200601K1_2	1.00	1.82	NO	38.99	1.005	9.15e3	8.31e5	0.985	-1.5	1.10	dd
200601K1_3	2.50	1.83	NO	38.99	1.005	2.31e4	8.21e5	2.52	0.6	1.12	dd
200601K1_4	50.0	1.58	NO	38.99	1.005	4.60e5	7.95e5	51.8	3.6	1.16	dd
200601K1_5	400	1.57	NO	38.99	1.005	4.23e6	9.02e5	420	4.9	1.17	dd
200601K1_6	1000	1.55	NO	38.99	1.005	1.07e7	9.13e5	1050	4.9	1.17	dd

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Compound name: PCB-87/117/125

Response Factor: 1.55887

RRF SD: 0.10978, Relative SD: 7.04225

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.750	1.69	NO	39.10	1.008	8.41e3	7.55e5	0.714	-4.8	1.48	dd
200801K1_2	3.00	1.54	NO	39.12	1.008	3.56e4	8.31e5	2.74	-8.5	1.43	dd
200801K1_3	7.50	1.62	NO	39.12	1.008	9.10e4	8.21e5	7.11	-5.2	1.48	dd
200801K1_4	150	1.57	NO	39.12	1.008	1.92e6	7.95e5	155	3.4	1.61	dd
200801K1_5	1200	1.57	NO	39.12	1.008	1.82e7	9.02e5	1290	7.6	1.68	dd
200801K1_6	3000	1.57	NO	39.12	1.008	4.59e7	9.13e5	3220	7.5	1.68	dd

Compound name: PCB-111/115

Response Factor: 1.91042

RRF SD: 0.105925, Relative SD: 5.54456

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.500	1.58	NO	39.27	1.012	6.99e3	7.55e5	0.485	-3.1	1.85	dd
200801K1_2	2.00	1.41	NO	39.27	1.012	2.93e4	8.31e5	1.85	-7.6	1.77	dd
200801K1_3	5.00	1.62	NO	39.27	1.012	7.57e4	8.21e5	4.82	-3.5	1.84	dd
200801K1_4	100	1.57	NO	39.27	1.012	1.56e6	7.95e5	103	2.8	1.96	dd
200801K1_5	800	1.57	NO	39.27	1.012	1.46e7	9.02e5	847	5.6	2.02	dd
200801K1_6	2000	1.55	NO	39.28	1.013	3.69e7	9.13e5	2120	5.8	2.02	dd

Compound name: PCB-85/116

Response Factor: 1.41084

RRF SD: 0.0937905, Relative SD: 6.64783

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.500	1.72	NO	39.40	1.015	5.54e3	7.55e5	0.520	4.0	1.47	db
200801K1_2	2.00	1.42	NO	39.40	1.015	2.11e4	8.31e5	1.79	-10.3	1.27	dd

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Compound name: PCB-85/116

Name	Std. Conc.	RA	nly	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	5.00	1.54	NO	39.40	1.015	5.42e4	8.21e5	4.68	-6.4	1.32	dd
200601K1_4	100	1.58	NO	39.40	1.015	1.15e6	7.95e5	102	2.3	1.44	db
200601K1_5	800	1.58	NO	39.40	1.015	1.07e7	9.02e5	842	5.2	1.48	db
200601K1_6	2000	1.60	NO	39.40	1.015	2.71e7	9.13e5	2100	5.2	1.48	db

Compound name: PCB-120

Response Factor: 2.00504

RRF SD: 0.113682, Relative SD: 5.66984

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	nly	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.42	NO	39.84	1.022	3.56e3	7.55e5	0.235	-6.0	1.88	bd
200601K1_2	1.00	1.56	NO	39.66	1.022	1.80e4	8.31e5	0.959	-4.1	1.92	dd
200601K1_3	2.50	1.56	NO	39.66	1.022	3.91e4	8.21e5	2.37	-5.1	1.90	dd
200601K1_4	50.0	1.56	NO	39.66	1.022	8.25e5	7.95e5	51.8	3.5	2.08	bd
200601K1_5	400	1.59	NO	39.66	1.022	7.83e6	9.02e5	422	5.4	2.11	bd
200601K1_6	1000	1.56	NO	39.66	1.022	1.95e7	9.13e5	1060	6.3	2.13	bd

Compound name: PCB-110

Response Factor: 1.74266

RRF SD: 0.0926364, Relative SD: 5.3158

Response type: Internal Std ( Ref 188 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	nly	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.62	NO	39.79	1.025	3.10e3	7.55e5	0.235	-5.9	1.84	db
200601K1_2	1.00	1.56	NO	39.81	1.026	1.38e4	8.31e5	0.954	-4.8	1.88	MM
200601K1_3	2.50	1.56	NO	39.81	1.026	3.44e4	8.21e5	2.40	-3.9	1.87	db
200601K1_4	50.0	1.58	NO	39.81	1.026	7.19e5	7.95e5	51.9	3.8	1.81	db
200601K1_5	400	1.58	NO	39.81	1.026	6.65e6	9.02e5	423	5.7	1.84	db
200601K1_6	1000	1.58	NO	39.81	1.026	1.67e7	9.13e5	1050	4.8	1.83	db

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Compound name: PCB-82  
 Response Factor: 0.781273  
 RRF SD: 0.0477185, Relative SD: 6.10778  
 Response type: Internal Std ( Ref 189 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.250	1.38	NO	40.44	0.976	1.88e3	1.02e6	0.237	-5.4	0.739	MM
200601K1_2	1.00	1.79	NO	40.44	0.976	8.26e3	1.11e6	0.956	-4.4	0.747	MM
200601K1_3	2.50	1.57	NO	40.44	0.976	2.04e4	1.12e6	2.34	-6.5	0.731	dd
200601K1_4	50.0	1.57	NO	40.46	0.976	4.35e5	1.07e6	52.1	4.3	0.815	bb
200601K1_5	400	1.56	NO	40.46	0.976	3.98e6	1.18e6	431	7.8	0.842	bb
200601K1_6	1000	1.55	NO	40.46	0.976	1.00e7	1.23e6	1040	4.1	0.814	bb

Compound name: PCB-124  
 Response Factor: 1.39686  
 RRF SD: 0.11391, Relative SD: 8.15474  
 Response type: Internal Std ( Ref 189 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.250	1.51	NO	41.15	0.993	3.66e3	1.02e6	0.257	2.9	1.44	MM
200601K1_2	1.00	1.81	NO	41.15	0.993	1.33e4	1.11e6	0.864	-13.6	1.21	bd
200601K1_3	2.50	1.49	NO	41.15	0.993	3.66e4	1.12e6	2.35	-6.1	1.31	bd
200601K1_4	50.0	1.57	NO	41.16	0.993	7.76e5	1.07e6	52.0	4.0	1.45	bd
200601K1_5	400	1.57	NO	41.16	0.993	7.10e6	1.18e6	431	7.7	1.50	bd
200601K1_6	1000	1.56	NO	41.16	0.993	1.81e7	1.23e6	1050	5.2	1.47	bd

Compound name: PCB-107/109  
 Response Factor: 1.3418  
 RRF SD: 0.112451, Relative SD: 8.38064  
 Response type: Internal Std ( Ref 189 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.500	1.52	NO	41.31	0.997	6.09e3	1.02e6	0.446	-10.9	1.20	dd
200601K1_2	2.00	1.81	NO	41.29	0.996	2.87e4	1.11e6	1.93	-3.4	1.30	dd



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Compound name: PCB-107/109

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_3	5.00	1.48	NO	41.29	0.998	6.93e4	1.12e6	4.83	-7.5	1.24	dd
200801K1_4	100	1.58	NO	41.29	0.998	1.50e6	1.07e6	105	4.9	1.41	dd
200801K1_5	800	1.58	NO	41.29	0.998	1.38e7	1.18e6	871	8.8	1.48	dd
200801K1_6	2000	1.58	NO	41.29	0.998	3.57e7	1.23e6	2160	8.0	1.45	dd

Compound name: PCB-123

Response Factor: 1.19789

RRF SD: 0.0778787, Relative SD: 6.48483

Response type: Internal Std ( Ref 189 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.66	NO	41.48	1.001	2.87e3	1.02e6	0.236	-5.7	1.13	db
200801K1_2	1.00	1.57	NO	41.48	1.001	1.21e4	1.11e6	0.917	-8.3	1.10	dd
200801K1_3	2.50	1.54	NO	41.48	1.001	3.25e4	1.12e6	2.43	-2.7	1.17	dd
200801K1_4	50.0	1.58	NO	41.48	1.000	6.69e5	1.07e6	52.3	4.8	1.25	dd
200801K1_5	400	1.58	NO	41.48	1.000	6.11e6	1.18e6	432	7.9	1.29	dd
200801K1_6	1000	1.58	NO	41.48	1.000	1.54e7	1.23e6	1040	4.2	1.25	dd

Compound name: PCB-106/118

Response Factor: 1.21941

RRF SD: 0.102837, Relative SD: 8.43331

Response type: Internal Std ( Ref 190 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.500	1.34	NO	41.67	1.001	5.58e3	1.07e6	0.426	-14.8	1.04	MM
200801K1_2	2.00	1.73	NO	41.69	1.001	2.72e4	1.17e6	1.92	-4.2	1.17	MM
200801K1_3	5.00	1.55	NO	41.69	1.001	7.07e4	1.16e6	5.01	0.2	1.22	MM
200801K1_4	100	1.57	NO	41.69	1.001	1.44e6	1.12e6	105	5.5	1.29	MM
200801K1_5	800	1.58	NO	41.69	1.001	1.33e7	1.27e6	881	7.8	1.31	MM
200801K1_6	2000	1.58	NO	41.69	1.001	3.40e7	1.32e6	2110	5.7	1.29	MM

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Compound name: PCB-114  
 Response Factor: 1.14116  
 RRF SD: 0.0850793, Relative SD: 7.45549  
 Response type: Internal Std ( Ref 191 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.33	NO	42.32	1.000	3.86e3	1.38e6	0.248	-0.7	1.13	MM
200601K1_2	1.00	1.64	NO	42.34	1.001	1.48e4	1.45e6	0.891	-10.9	1.02	MM
200601K1_3	2.50	1.54	NO	42.34	1.000	3.91e4	1.47e6	2.33	-6.7	1.06	MM
200601K1_4	50.0	1.57	NO	42.34	1.000	8.45e5	1.41e6	52.8	5.3	1.20	MM
200601K1_5	400	1.54	NO	42.34	1.000	7.43e6	1.52e6	428	7.0	1.22	MM
200601K1_6	1000	1.55	NO	42.34	1.000	1.91e7	1.58e6	1060	6.0	1.21	MM

Compound name: PCB-122  
 Response Factor: 0.944286  
 RRF SD: 0.0437623, Relative SD: 4.63443  
 Response type: Internal Std ( Ref 191 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.81	NO	42.47	1.004	2.97e3	1.38e6	0.231	-7.8	0.871	MM
200601K1_2	1.00	1.80	NO	42.47	1.004	1.33e4	1.45e6	0.970	-3.0	0.915	MM
200601K1_3	2.50	1.54	NO	42.47	1.004	3.50e4	1.47e6	2.52	0.9	0.953	MM
200601K1_4	50.0	1.56	NO	42.47	1.004	6.92e5	1.41e6	52.1	4.2	0.984	MM
200601K1_5	400	1.55	NO	42.47	1.004	5.98e6	1.52e6	418	4.1	0.983	MM
200601K1_6	1000	1.56	NO	42.47	1.004	1.51e7	1.58e6	1020	1.8	0.959	MM

Compound name: PCB-105  
 Response Factor: 1.05075  
 RRF SD: 0.0648066, Relative SD: 6.16764  
 Response type: Internal Std ( Ref 192 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.32	NO	43.21	1.000	3.35e3	1.40e6	0.228	-8.9	0.957	bb
200601K1_2	1.00	1.56	NO	43.23	1.001	1.48e4	1.47e6	0.957	-4.3	1.01	MM

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Compound name: PCB-105

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200601K1_3	2.50	1.58	NO	43.23	1.000	3.84e4	1.49e6	2.45	-2.1	1.03	MM
200601K1_4	50.0	1.58	NO	43.23	1.000	7.78e5	1.42e6	52.1	4.1	1.09	dd
200601K1_5	400	1.59	NO	43.23	1.000	6.92e6	1.53e6	431	7.7	1.13	dd
200601K1_6	1000	1.58	NO	43.23	1.000	1.78e7	1.82e6	1030	3.4	1.09	dd

Compound name: PCB-127

Response Factor: 1.05904

RRF SD: 0.0891593, Relative SD: 6.53037

Response type: Internal Std ( Ref 193 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200601K1_1	0.250	1.35	NO	43.57	1.000	3.42e3	1.45e6	0.223	-10.8	0.944	MM
200601K1_2	1.00	1.53	NO	43.57	1.000	1.54e4	1.51e6	0.965	-3.5	1.02	db
200601K1_3	2.50	1.57	NO	43.57	1.000	4.15e4	1.59e6	2.47	-1.3	1.05	MM
200601K1_4	50.0	1.57	NO	43.57	1.000	6.11e5	1.47e6	52.2	4.4	1.11	db
200601K1_5	400	1.59	NO	43.57	1.000	7.02e6	1.58e6	420	5.0	1.11	db
200601K1_6	1000	1.57	NO	43.57	1.000	1.85e7	1.84e6	1060	6.1	1.12	db

Compound name: PCB-128

Response Factor: 1.17214

RRF SD: 0.0891348, Relative SD: 7.60443

Response type: Internal Std ( Ref 194 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200601K1_1	0.250	1.67	NO	45.52	1.000	3.40e3	1.33e6	0.218	-12.8	1.02	bb
200601K1_2	1.00	1.48	NO	45.52	1.000	1.71e4	1.49e6	0.982	-1.8	1.15	MM
200601K1_3	2.50	1.61	NO	45.52	1.000	4.35e4	1.54e6	2.42	-3.3	1.13	MM
200601K1_4	50.0	1.54	NO	45.54	1.000	8.88e5	1.45e6	52.1	4.3	1.22	db
200601K1_5	400	1.56	NO	45.54	1.001	7.83e6	1.51e6	431	7.7	1.26	db
200601K1_6	1000	1.56	NO	45.54	1.000	1.98e7	1.80e6	1060	5.9	1.24	db

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Compound name: PCB-155  
 Response Factor: 1.04363  
 RRF SD: 0.0461718, Relative SD: 4.42414  
 Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	rt	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.30	NO	37.01	1.001	1.70e3	6.57e5	0.247	-1.1	1.03	bb
200801K1_2	1.00	1.23	NO	37.01	1.001	7.53e3	7.35e5	0.981	-1.9	1.02	bb
200801K1_3	2.50	1.18	NO	37.01	1.000	1.80e4	7.36e5	2.34	-6.5	0.976	bb
200801K1_4	50.0	1.30	NO	37.01	1.000	3.73e5	7.19e5	49.7	-0.8	1.04	bb
200801K1_5	400	1.30	NO	37.01	1.000	3.46e6	7.88e5	421	5.4	1.10	bb
200801K1_6	1000	1.29	NO	37.01	1.000	6.65e6	7.92e5	1050	4.7	1.09	bb

Compound name: PCB-150  
 Response Factor: 1.08341  
 RRF SD: 0.0925801, Relative SD: 8.54521  
 Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	rt	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.14	NO	38.30	1.036	1.59e3	6.57e5	0.223	-10.8	0.967	MM
200801K1_2	1.00	1.15	NO	38.32	1.036	7.27e3	7.35e5	0.912	-6.8	0.968	bb
200801K1_3	2.50	1.32	NO	38.32	1.036	1.98e4	7.36e5	2.49	-0.6	1.08	bb
200801K1_4	50.0	1.26	NO	38.32	1.036	3.96e5	7.19e5	50.9	1.7	1.10	bb
200801K1_5	400	1.29	NO	38.32	1.036	3.72e6	7.88e5	436	8.9	1.18	bb
200801K1_6	1000	1.29	NO	38.32	1.036	9.39e6	7.92e5	1090	9.5	1.19	bb

Compound name: PCB-152  
 Response Factor: 1.18641  
 RRF SD: 0.106735, Relative SD: 8.99646  
 Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	rt	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.37	NO	38.80	1.049	1.72e3	6.57e5	0.221	-11.7	1.05	MM
200801K1_2	1.00	1.34	NO	38.80	1.049	6.42e3	7.35e5	0.968	-3.4	1.15	bb

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Compound name: PCB-152

Name	Std Conc	RA	nty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200801K1_3	2.50	1.28	NO	38.80	1.049	2.02e4	7.36e5	2.32	-7.3	1.10	bb
200801K1_4	50.0	1.30	NO	38.80	1.049	4.38e5	7.19e5	51.3	2.6	1.22	bb
200801K1_5	400	1.31	NO	38.80	1.049	4.12e6	7.88e5	441	10.4	1.31	bb
200801K1_6	1000	1.30	NO	38.82	1.049	1.03e7	7.92e5	1090	9.4	1.30	bb

Compound name: PCB-145

Response Factor: 1.18848

RRF SD: 0.0869925, Relative SD: 7.31963

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	nty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200801K1_1	0.250	1.30	NO	39.27	1.062	1.80e3	6.57e5	0.231	-7.7	1.10	MM
200801K1_2	1.00	1.31	NO	39.27	1.062	8.51e3	7.35e5	0.974	-2.6	1.16	bb
200801K1_3	2.50	1.25	NO	39.27	1.061	2.04e4	7.36e5	2.34	-6.6	1.11	bb
200801K1_4	50.0	1.31	NO	39.27	1.061	4.24e5	7.19e5	49.6	-0.9	1.18	bb
200801K1_5	400	1.28	NO	39.27	1.061	4.10e6	7.88e5	438	9.5	1.30	bb
200801K1_6	1000	1.29	NO	39.27	1.061	1.02e7	7.92e5	1080	6.2	1.29	bb

Compound name: PCB-136

Response Factor: 1.02088

RRF SD: 0.0891715, Relative SD: 6.77588

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	nty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200801K1_1	0.250	1.19	NO	39.60	1.071	1.50e3	6.57e5	0.224	-10.4	0.915	MM
200801K1_2	1.00	1.37	NO	39.60	1.071	7.18e3	7.35e5	0.957	-4.3	0.977	MM
200801K1_3	2.50	1.20	NO	39.60	1.070	1.87e4	7.36e5	2.49	-0.3	1.02	bd
200801K1_4	50.0	1.32	NO	39.60	1.070	3.70e5	7.19e5	50.4	0.7	1.03	bd
200801K1_5	400	1.30	NO	39.60	1.070	3.47e6	7.88e5	431	7.8	1.10	bd
200801K1_6	1000	1.29	NO	39.60	1.070	8.61e6	7.92e5	1080	6.5	1.09	bd

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Compound name: PCB-148  
 Response Factor: 0.841589  
 RRF SD: 0.0633021, Relative SD: 7.52173  
 Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Int. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	1.05	NO	39.71	1.074	1.38e3	6.57e5	0.246	-1.4	0.830	MM
200801K1_2	1.00	1.26	NO	39.71	1.074	5.73e3	7.35e5	0.926	-7.4	0.779	db
200801K1_3	2.50	1.29	NO	39.71	1.073	1.42e4	7.38e5	2.30	-8.0	0.775	db
200801K1_4	50.0	1.32	NO	39.71	1.073	2.99e5	7.19e5	49.4	-1.1	0.832	db
200801K1_5	400	1.31	NO	39.71	1.073	2.87e6	7.88e5	434	8.4	0.913	db
200801K1_6	1000	1.31	NO	39.71	1.073	7.30e6	7.92e5	1090	9.5	0.921	db

Compound name: PCB-154  
 Response Factor: 0.91897  
 RRF SD: 0.0435601, Relative SD: 4.7401  
 Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Int. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	1.39	NO	40.22	1.088	1.56e3	6.57e5	0.258	3.3	0.949	MM
200801K1_2	1.00	1.41	NO	40.22	1.088	6.57e3	7.35e5	0.973	-2.7	0.894	MM
200801K1_3	2.50	1.35	NO	40.22	1.087	1.57e4	7.38e5	2.32	-7.1	0.853	bb
200801K1_4	50.0	1.33	NO	40.22	1.087	3.23e5	7.19e5	48.9	-2.2	0.899	bb
200801K1_5	400	1.30	NO	40.22	1.087	3.01e6	7.88e5	416	4.0	0.958	bb
200801K1_6	1000	1.30	NO	40.22	1.087	7.62e6	7.92e5	1050	4.7	0.963	bb

Compound name: PCB-151  
 Response Factor: 0.786525  
 RRF SD: 0.034223, Relative SD: 4.35117  
 Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Int. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	1.07	NO	40.88	1.106	1.19e3	6.57e5	0.231	-7.8	0.725	MM
200801K1_2	1.00	1.15	NO	40.88	1.106	5.79e3	7.35e5	1.00	0.1	0.787	bb

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Compound name: PCB-151

Name	Std Conc	RA	Hy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	1.14	NO	40.88	1.105	1.45e4	7.36e5	2.50	0.0	0.787	bb
200601K1_4	50.0	1.33	NO	40.88	1.105	2.82e5	7.19e5	49.9	-0.2	0.785	bd
200601K1_5	400	1.31	NO	40.88	1.105	2.54e6	7.88e5	410	2.8	0.807	bb
200601K1_6	1000	1.28	NO	40.88	1.105	6.56e6	7.92e5	1050	5.2	0.828	bd

Compound name: PCB-135

Response Factor: 0.922274

RRF SD: 0.05017, Relative SD: 5.43982

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Hy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.35	NO	41.11	1.112	1.63e3	6.57e5	0.268	7.3	0.990	MM
200601K1_2	1.00	1.27	NO	41.11	1.112	6.81e3	7.35e5	1.00	0.4	0.926	MM
200601K1_3	2.50	1.33	NO	41.11	1.111	1.56e4	7.36e5	2.29	-8.2	0.847	MM
200601K1_4	50.0	1.28	NO	41.11	1.111	3.19e5	7.19e5	48.1	-3.7	0.888	dd
200601K1_5	400	1.27	NO	41.11	1.111	2.93e6	7.88e5	403	0.7	0.929	bd
200601K1_6	1000	1.28	NO	41.11	1.111	7.56e6	7.92e5	1040	3.5	0.955	dd

Compound name: PCB-144

Response Factor: 0.788937

RRF SD: 0.0931784, Relative SD: 11.8106

Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Hy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.07	NO	41.22	1.115	1.14e3	6.57e5	0.219	-12.4	0.691	dd
200601K1_2	1.00	1.05	NO	41.20	1.114	5.31e3	7.35e5	0.915	-8.5	0.722	MM
200601K1_3	2.50	1.25	NO	41.22	1.114	1.33e4	7.36e5	2.29	-8.5	0.722	MM
200601K1_4	50.0	1.30	NO	41.22	1.114	2.87e5	7.19e5	50.6	1.3	0.799	dd
200601K1_5	400	1.28	NO	41.22	1.114	2.82e6	7.88e5	454	13.4	0.895	dd
200601K1_6	1000	1.28	NO	41.22	1.114	7.17e6	7.92e5	1150	14.7	0.905	dd

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Compound name: PCB-147  
 Response Factor: 0.834498  
 RRF SD: 0.0629802, Relative SD: 7.54708  
 Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.35	NO	41.35	1.118	1.49e3	6.57e5	0.271	8.8	0.908	db
200801K1_2	1.00	1.27	NO	41.35	1.118	5.42e3	7.35e5	0.883	-11.7	0.737	MM
200801K1_3	2.50	1.33	NO	41.35	1.118	1.44e4	7.38e5	2.34	-8.4	0.781	MM
200801K1_4	50.0	1.32	NO	41.35	1.118	3.05e5	7.19e5	50.9	1.8	0.849	db
200801K1_5	400	1.29	NO	41.35	1.118	2.72e6	7.88e5	413	3.3	0.862	db
200801K1_6	1000	1.31	NO	41.35	1.118	6.90e6	7.92e5	1040	4.4	0.871	db

Compound name: PCB-139/149  
 Response Factor: 0.947782  
 RRF SD: 0.0555305, Relative SD: 5.859  
 Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.500	1.23	NO	41.63	1.126	3.21e3	6.57e5	0.515	3.0	0.977	MM
200801K1_2	2.00	1.18	NO	41.63	1.126	1.32e4	7.35e5	1.90	-5.2	0.898	MM
200801K1_3	5.00	1.32	NO	41.63	1.125	3.24e4	7.38e5	4.85	-7.0	0.881	bd
200801K1_4	100	1.30	NO	41.63	1.125	6.80e5	7.19e5	98.9	-3.1	0.918	bd
200801K1_5	800	1.28	NO	41.63	1.125	6.31e6	7.88e5	848	5.7	1.00	bd
200801K1_6	2000	1.30	NO	41.63	1.125	1.80e7	7.92e5	2130	6.8	1.01	bd

Compound name: PCB-140  
 Response Factor: 0.793808  
 RRF SD: 0.0527788, Relative SD: 6.65048  
 Response type: Internal Std ( Ref 195 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.38	NO	41.80	1.130	1.28e3	6.57e5	0.245	-1.8	0.779	MM
200801K1_2	1.00	1.30	NO	41.81	1.131	5.44e3	7.35e5	0.932	-6.8	0.740	MM



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Compound name: PCB-140

Name	Std Conc	RA	inj	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	1.30	NO	41.81	1.130	1.35e4	7.36e5	2.31	-7.4	0.735	db
200601K1_4	50.0	1.35	NO	41.81	1.130	2.88e5	7.19e5	50.5	0.9	0.801	db
200601K1_5	400	1.29	NO	41.81	1.130	2.70e6	7.88e5	431	7.9	0.856	db
200601K1_6	1000	1.32	NO	41.81	1.130	8.74e6	7.92e5	1070	7.3	0.851	db

Compound name: PCB-134/143

Response Factor: 0.758932

RRF SD: 0.0865715, Relative SD: 11.407

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	inj	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.500	1.38	NO	42.26	0.975	3.74e3	1.21e6	0.408	-16.4	0.619	bb
200601K1_2	2.00	1.24	NO	42.26	0.975	1.80e4	1.26e6	1.88	-5.9	0.714	bb
200601K1_3	5.00	1.23	NO	42.26	0.975	4.77e4	1.30e6	4.84	-3.3	0.734	bb
200601K1_4	100	1.24	NO	42.26	0.974	1.01e6	1.25e6	107	6.8	0.809	bb
200601K1_5	800	1.22	NO	42.26	0.974	9.11e6	1.35e6	890	11.2	0.844	bb
200601K1_6	2000	1.24	NO	42.26	0.974	2.30e7	1.38e6	2200	9.8	0.833	bb

Compound name: PCB-131/133

Response Factor: 0.820779

RRF SD: 0.0843262, Relative SD: 10.2739

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	inj	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.500	1.42	NO	42.57	0.982	4.18e3	1.21e6	0.420	-16.1	0.689	MM
200601K1_2	2.00	1.22	NO	42.57	0.982	1.97e4	1.26e6	1.90	-4.9	0.780	bd
200601K1_3	5.00	1.28	NO	42.57	0.982	5.11e4	1.30e6	4.79	-4.3	0.788	bd
200601K1_4	100	1.22	NO	42.57	0.981	1.08e6	1.25e6	105	5.3	0.885	bd
200601K1_5	800	1.22	NO	42.57	0.981	9.78e6	1.35e6	882	10.2	0.904	bd
200601K1_6	2000	1.23	NO	42.57	0.981	2.49e7	1.38e6	2190	9.7	0.901	bd

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Compound name: PCB-142  
 Response Factor: 0.754261  
 RRF SD: 0.0382275, Relative SD: 5.06821  
 Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Int. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.18	NO	42.72	0.985	2.21e3	1.21e6	0.243	-2.8	0.733	MM
200601K1_2	1.00	1.24	NO	42.74	0.986	8.89e3	1.26e6	0.933	-6.7	0.703	db
200601K1_3	2.50	1.25	NO	42.74	0.986	2.38e4	1.30e6	2.42	-3.1	0.731	dd
200601K1_4	50.0	1.24	NO	42.74	0.985	4.79e5	1.25e6	50.8	1.5	0.766	dd
200601K1_5	400	1.23	NO	42.74	0.985	4.33e6	1.35e6	426	6.4	0.803	dd
200601K1_6	1000	1.21	NO	42.74	0.985	1.09e7	1.38e6	1050	4.7	0.790	dd

Compound name: PCB-146/165  
 Response Factor: 1.01661  
 RRF SD: 0.0808121, Relative SD: 7.94921  
 Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Int. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.500	1.23	NO	42.97	0.991	5.49e3	1.21e6	0.447	-10.5	0.910	dd
200601K1_2	2.00	1.22	NO	42.97	0.991	2.47e4	1.26e6	1.92	-3.9	0.977	bb
200601K1_3	5.00	1.22	NO	42.97	0.991	6.23e4	1.30e6	4.71	-5.7	0.959	dd
200601K1_4	100	1.22	NO	42.97	0.990	1.31e6	1.25e6	103	2.9	1.05	dd
200601K1_5	800	1.23	NO	42.97	0.990	1.20e7	1.35e6	873	9.2	1.11	dd
200601K1_6	2000	1.22	NO	42.97	0.990	3.04e7	1.38e6	2160	8.1	1.10	dd

Compound name: PCB-132/161  
 Response Factor: 1.02411  
 RRF SD: 0.0851295, Relative SD: 6.3596  
 Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Int. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.500	1.21	NO	43.19	0.996	5.86e3	1.21e6	0.474	-5.3	0.970	dd
200601K1_2	2.00	1.19	NO	43.21	0.997	2.45e4	1.26e6	1.89	-5.3	0.970	bd

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**Compound name: PCB-132/161**

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	5.00	1.28	NO	43.19	0.996	6.25e4	1.30e6	4.69	-6.2	0.961	dd
200601K1_4	100	1.24	NO	43.21	0.996	1.31e6	1.25e6	103	2.6	1.05	dd
200601K1_5	800	1.24	NO	43.21	0.996	1.19e7	1.35e6	861	7.7	1.10	dd
200601K1_6	2000	1.24	NO	43.21	0.996	3.02e7	1.38e6	2130	6.5	1.09	dd

**Compound name: PCB-153**

Response Factor: 1.07057

RRF SD: 0.0679682, Relative SD: 6.34876

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.42	NO	43.38	1.000	2.99e3	1.21e6	0.232	-7.4	0.992	MM
200601K1_2	1.00	1.26	NO	43.40	1.001	1.30e4	1.28e6	0.960	-4.0	1.03	dd
200601K1_3	2.50	1.18	NO	43.40	1.001	3.29e4	1.30e6	2.38	-5.5	1.01	dd
200601K1_4	50.0	1.25	NO	43.40	1.000	6.97e5	1.25e6	52.0	4.0	1.11	dd
200601K1_5	400	1.24	NO	43.40	1.000	6.17e6	1.35e6	426	6.9	1.14	dd
200601K1_6	1000	1.24	NO	43.40	1.000	1.57e7	1.38e6	1060	6.0	1.14	dd

**Compound name: PCB-168**

Response Factor: 1.07725

RRF SD: 0.0814218, Relative SD: 7.55832

Response type: Internal Std ( Ref 196 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.09	NO	43.61	1.006	2.93e3	1.21e6	0.225	-10.1	0.969	db
200601K1_2	1.00	1.30	NO	43.61	1.006	1.29e4	1.26e6	0.946	-5.4	1.02	db
200601K1_3	2.50	1.23	NO	43.61	1.006	3.39e4	1.30e6	2.42	-3.3	1.04	db
200601K1_4	50.0	1.24	NO	43.61	1.005	6.89e5	1.25e6	51.1	2.1	1.10	db
200601K1_5	400	1.24	NO	43.63	1.006	6.32e6	1.35e6	435	8.7	1.17	db
200601K1_6	1000	1.23	NO	43.63	1.006	1.81e7	1.38e6	1060	8.0	1.16	db

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Compound name: PCB-141  
 Response Factor: 1.02661  
 RRF SD: 0.0643735, Relative SD: 6.27049  
 Response type: Internal Std ( Ref 197 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.34	NO	44.16	1.001	2.32e3	9.74e5	0.232	-7.2	0.953	MM
200601K1_2	1.00	1.28	NO	44.16	1.000	1.02e4	1.06e6	0.941	-5.9	0.966	MM
200601K1_3	2.50	1.23	NO	44.16	1.000	2.72e4	1.10e6	2.41	-3.6	0.989	bd
200601K1_4	50.0	1.24	NO	44.18	1.000	5.51e5	1.03e6	51.9	3.8	1.07	bd
200601K1_5	400	1.24	NO	44.18	1.000	4.91e6	1.12e6	426	6.6	1.09	bd
200601K1_6	1000	1.24	NO	44.16	1.000	1.23e7	1.12e6	1060	6.3	1.09	bd

Compound name: PCB-137  
 Response Factor: 1.11036  
 RRF SD: 0.0861984, Relative SD: 7.76308  
 Response type: Internal Std ( Ref 197 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.39	NO	44.54	1.010	2.39e3	9.74e5	0.221	-11.5	0.983	MM
200601K1_2	1.00	1.34	NO	44.56	1.009	1.09e4	1.06e6	0.931	-6.9	1.03	MM
200601K1_3	2.50	1.19	NO	44.56	1.009	3.06e4	1.10e6	2.51	0.3	1.11	MM
200601K1_4	50.0	1.24	NO	44.56	1.009	5.93e5	1.03e6	51.6	3.2	1.15	bd
200601K1_5	400	1.22	NO	44.56	1.009	5.38e6	1.12e6	432	8.0	1.20	bd
200601K1_6	1000	1.22	NO	44.56	1.009	1.34e7	1.12e6	1070	6.9	1.19	bd

Compound name: PCB-130  
 Response Factor: 0.885312  
 RRF SD: 0.0756292, Relative SD: 8.54266  
 Response type: Internal Std ( Ref 197 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.41	NO	44.65	1.012	1.86e3	9.74e5	0.216	-13.6	0.765	MM
200601K1_2	1.00	1.09	NO	44.65	1.012	9.08e3	1.06e6	0.969	-3.1	0.858	MM

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Compound name: PCB-130

Name	Std Conc	RA	inj	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	1.29	NO	44.65	1.012	2.34e4	1.10e6	2.41	-3.7	0.852	MM
200601K1_4	50.0	1.24	NO	44.67	1.012	4.75e5	1.03e6	51.9	3.8	0.919	MM
200601K1_5	400	1.23	NO	44.67	1.012	4.37e6	1.12e6	440	10.0	0.974	MM
200601K1_6	1000	1.23	NO	44.67	1.012	1.06e7	1.12e6	1070	6.6	0.944	MM

Compound name: PCB-138/163/164

Response Factor: 1.28353

RRF SD: 0.106549, Relative SD: 8.30127

Response type: Internal Std ( Ref 198 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	inj	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.750	1.29	NO	45.05	1.001	8.62e3	1.00e6	0.671	-10.6	1.15	MM
200601K1_2	3.00	1.18	NO	45.05	1.001	4.01e4	1.11e6	2.82	-5.9	1.21	bd
200601K1_3	7.50	1.26	NO	45.05	1.001	1.06e5	1.16e6	7.12	-5.1	1.22	bd
200601K1_4	150	1.23	NO	45.05	1.001	2.17e6	1.07e6	157	4.8	1.35	bd
200601K1_5	1200	1.23	NO	45.05	1.001	2.01e7	1.18e6	1330	10.5	1.42	bd
200601K1_6	3000	1.23	NO	45.05	1.001	5.01e7	1.22e6	3190	6.3	1.36	bd

Compound name: PCB-158/160

Response Factor: 1.23999

RRF SD: 0.0786271, Relative SD: 6.34093

Response type: Internal Std ( Ref 198 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	inj	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.500	1.06	NO	45.28	1.006	5.95e3	1.00e6	0.479	-4.2	1.19	MM
200601K1_2	2.00	1.20	NO	45.30	1.007	2.56e4	1.11e6	1.87	-6.7	1.16	dd
200601K1_3	5.00	1.23	NO	45.30	1.006	6.75e4	1.16e6	4.70	-5.9	1.17	dd
200601K1_4	100	1.22	NO	45.30	1.006	1.38e6	1.07e6	104	3.6	1.26	dd
200601K1_5	800	1.22	NO	45.30	1.006	1.26e7	1.18e6	864	8.0	1.34	dd
200601K1_6	2000	1.24	NO	45.30	1.006	3.19e7	1.22e6	2100	5.2	1.30	dd

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Compound name: PCB-129  
 Response Factor: 0.866678  
 RRF SD: 0.0575828, Relative SD: 6.64409  
 Response type: Internal Std ( Ref 198 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.30	NO	45.54	1.012	2.07e3	1.00e6	0.239	-4.5	0.827	MM
200601K1_2	1.00	1.30	NO	45.54	1.012	9.27e3	1.11e6	0.968	-3.4	0.837	db
200601K1_3	2.50	1.28	NO	45.54	1.012	2.27e4	1.16e6	2.27	-9.2	0.787	db
200601K1_4	50.0	1.23	NO	45.54	1.012	4.97e5	1.07e6	53.4	6.8	0.926	db
200601K1_5	400	1.22	NO	45.54	1.012	4.35e6	1.18e6	426	6.6	0.923	db
200601K1_6	1000	1.22	NO	45.54	1.012	1.10e7	1.22e6	1040	3.8	0.900	db

Compound name: PCB-166  
 Response Factor: 1.14308  
 RRF SD: 0.0513388, Relative SD: 4.49125  
 Response type: Internal Std ( Ref 199 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.21	NO	46.02	0.993	3.46e3	1.22e6	0.249	-0.5	1.14	db
200601K1_2	1.00	1.17	NO	46.00	0.993	1.44e4	1.34e6	0.943	-5.7	1.08	MM
200601K1_3	2.50	1.25	NO	46.02	0.993	3.77e4	1.39e6	2.38	-4.7	1.09	MM
200601K1_4	50.0	1.24	NO	46.02	0.993	7.77e5	1.33e6	51.2	2.3	1.17	MM
200601K1_5	400	1.24	NO	46.02	0.993	6.88e6	1.42e6	423	5.8	1.21	MM
200601K1_6	1000	1.22	NO	46.02	0.993	1.77e7	1.51e6	1030	2.7	1.17	MM

Compound name: PCB-159  
 Response Factor: 1.21657  
 RRF SD: 0.0622303, Relative SD: 5.11521  
 Response type: Internal Std ( Ref 199 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.24	NO	46.34	1.000	3.62e3	1.22e6	0.245	-2.2	1.19	MM
200601K1_2	1.00	1.24	NO	46.34	1.000	1.58e4	1.34e6	0.961	-3.9	1.17	MM

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Compound name: PCB-150

Name	Std Conc	RA	rfy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	1.29	NO	46.36	1.001	3.92e4	1.38e6	2.33	-6.7	1.13	MM
200601K1_4	50.0	1.22	NO	46.36	1.000	8.24e5	1.33e6	51.0	2.0	1.24	MM
200601K1_5	400	1.24	NO	46.36	1.000	7.37e6	1.42e6	428	6.6	1.30	MM
200601K1_6	1000	1.23	NO	46.36	1.000	1.91e7	1.51e6	1040	4.3	1.27	MM

Compound name: PCB-128/162

Response Factor: 0.907497

RRF SD: 0.0511425, Relative SD: 5.63556

Response type: Internal Std ( Ref 199 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	rfy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.500	1.13	NO	46.64	1.007	5.34e3	1.22e6	0.484	-3.3	0.676	MM
200601K1_2	2.00	1.20	NO	46.64	1.007	2.26e4	1.34e6	1.86	-6.9	0.845	MM
200601K1_3	5.00	1.25	NO	46.64	1.007	5.99e4	1.38e6	4.77	-4.8	0.866	MM
200601K1_4	100	1.24	NO	46.64	1.007	1.25e6	1.33e6	103	3.3	0.938	MM
200601K1_5	800	1.24	NO	46.64	1.007	1.10e7	1.42e6	856	7.0	0.971	MM
200601K1_6	2000	1.21	NO	46.66	1.007	2.85e7	1.51e6	2090	4.4	0.947	MM

Compound name: PCB-167

Response Factor: 1.10858

RRF SD: 0.0571768, Relative SD: 5.15766

Response type: Internal Std ( Ref 200 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	rfy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.29	NO	47.06	1.001	3.31e3	1.22e6	0.248	-1.8	1.09	MM
200601K1_2	1.00	1.39	NO	47.06	1.001	1.36e4	1.33e6	0.938	-6.2	1.04	MM
200601K1_3	2.50	1.19	NO	47.06	1.000	3.66e4	1.39e6	2.38	-4.7	1.06	bb
200601K1_4	50.0	1.24	NO	47.06	1.000	7.62e5	1.38e6	50.6	1.2	1.12	bb
200601K1_5	400	1.25	NO	47.06	1.000	6.68e6	1.41e6	428	7.1	1.19	bb
200601K1_6	1000	1.23	NO	47.06	1.000	1.72e7	1.49e6	1040	4.3	1.16	bb

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Compound name: PCB-156  
 Response Factor: 1.12589  
 RRF SD: 0.0789703, Relative SD: 7.01404  
 Response type: Internal Std ( Ref 201 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.42	NO	48.38	1.000	3.07e3	1.18e6	0.231	-7.7	1.04	MM
200601K1_2	1.00	1.18	NO	48.38	1.000	1.32e4	1.26e6	0.931	-6.9	1.05	MM
200601K1_3	2.50	1.20	NO	48.38	1.000	3.67e4	1.35e6	2.42	-3.4	1.09	bb
200601K1_4	50.0	1.25	NO	48.38	1.000	7.58e5	1.31e6	51.2	2.5	1.15	bd
200601K1_5	400	1.22	NO	48.38	1.000	6.73e6	1.37e6	435	8.9	1.23	bd
200601K1_6	1000	1.23	NO	48.38	1.000	1.76e7	1.47e6	1070	6.6	1.20	bd

Compound name: PCB-157  
 Response Factor: 1.03828  
 RRF SD: 0.0627401, Relative SD: 6.04267  
 Response type: Internal Std ( Ref 202 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.31	NO	48.65	1.000	2.89e3	1.19e6	0.234	-6.2	0.974	MM
200601K1_2	1.00	1.16	NO	48.67	1.001	1.21e4	1.24e6	0.943	-5.7	0.980	dd
200601K1_3	2.50	1.20	NO	48.67	1.000	3.40e4	1.36e6	2.41	-3.7	1.00	bd
200601K1_4	50.0	1.23	NO	48.67	1.000	6.97e5	1.31e6	51.1	2.2	1.06	dd
200601K1_5	400	1.23	NO	48.67	1.000	6.16e6	1.37e6	432	8.0	1.12	dd
200601K1_6	1000	1.23	NO	48.67	1.000	1.82e7	1.48e6	1050	5.4	1.09	dd

Compound name: PCB-169  
 Response Factor: 1.15806  
 RRF SD: 0.0659172, Relative SD: 5.69202  
 Response type: Internal Std ( Ref 203 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.16	NO	50.92	1.000	3.08e3	1.12e6	0.238	-5.0	1.10	bb
200601K1_2	1.00	1.28	NO	50.92	1.000	1.29e4	1.19e6	0.940	-6.0	1.09	MM



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Compound name: PCB-169

Name	Std Conc	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	1.27	NO	50.92	1.000	3.70e4	1.33e6	2.40	-4.1	1.11	bb
200601K1_4	50.0	1.23	NO	50.92	1.000	7.28e5	1.22e6	51.5	2.9	1.19	bb
200601K1_5	400	1.23	NO	50.92	1.000	6.46e6	1.30e6	429	7.2	1.24	bb
200601K1_6	1000	1.24	NO	50.94	1.000	1.73e7	1.42e6	1050	5.0	1.22	bb

Compound name: PCB-188

Response Factor: 1.28967

RRF SD: 0.0641497, Relative SD: 4.97412

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.91	NO	43.01	1.000	2.94e3	9.28e5	0.248	-1.7	1.27	MM
200601K1_2	1.00	1.01	NO	43.01	1.000	1.20e4	1.02e6	0.918	-8.4	1.16	MM
200601K1_3	2.50	0.97	NO	43.02	1.001	3.28e4	1.03e6	2.48	-1.6	1.27	bb
200601K1_4	50.0	1.05	NO	43.02	1.000	6.73e5	1.01e6	51.5	3.0	1.33	bb
200601K1_5	400	1.05	NO	43.02	1.000	6.15e6	1.13e6	420	5.1	1.35	bb
200601K1_6	1000	1.03	NO	43.02	1.000	1.58e7	1.18e6	1040	3.7	1.34	bb

Compound name: PCB-184

Response Factor: 1.23185

RRF SD: 0.0863042, Relative SD: 7.00722

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.16	NO	43.48	1.011	2.47e3	9.28e5	0.216	-13.6	1.06	MM
200601K1_2	1.00	0.98	NO	43.48	1.011	1.28e4	1.02e6	1.01	0.8	1.24	bb
200601K1_3	2.50	1.09	NO	43.48	1.012	3.18e4	1.03e6	2.50	-0.1	1.23	bb
200601K1_4	50.0	1.04	NO	43.48	1.011	6.50e5	1.01e6	52.1	4.1	1.28	bb
200601K1_5	400	1.05	NO	43.48	1.011	5.91e6	1.13e6	423	5.7	1.30	bb
200601K1_6	1000	1.03	NO	43.48	1.011	1.50e7	1.18e6	1030	3.1	1.27	bb

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Compound name: PCB-179  
 Response Factor: 1.29806  
 RRF SD: 0.052795, Relative SD: 4.06721  
 Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	0.250	1.00	NO	44.27	1.030	2.80e3	9.28e5	0.232	-7.0	1.21	MM
200801K1_2	1.00	1.00	NO	44.29	1.030	1.29e4	1.02e6	0.979	-2.1	1.27	MM
200801K1_3	2.50	1.10	NO	44.29	1.030	3.39e4	1.03e6	2.52	1.0	1.31	bb
200801K1_4	50.0	1.04	NO	44.29	1.030	6.78e5	1.01e6	51.4	2.8	1.33	bb
200801K1_5	400	1.04	NO	44.29	1.030	6.16e6	1.13e6	418	4.5	1.36	bb
200801K1_6	1000	1.04	NO	44.29	1.030	1.55e7	1.18e6	1010	0.9	1.31	bb

Compound name: PCB-176  
 Response Factor: 1.30863  
 RRF SD: 0.0665306, Relative SD: 5.08397  
 Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	0.250	1.13	NO	44.75	1.041	2.78e3	9.28e5	0.229	-8.5	1.20	MM
200801K1_2	1.00	1.07	NO	44.77	1.041	1.34e4	1.02e6	1.01	0.7	1.32	bb
200801K1_3	2.50	1.07	NO	44.77	1.041	3.31e4	1.03e6	2.44	-2.3	1.28	MM
200801K1_4	50.0	1.05	NO	44.77	1.041	6.80e5	1.01e6	51.3	2.8	1.34	bb
200801K1_5	400	1.04	NO	44.77	1.041	6.33e6	1.13e6	426	6.5	1.39	bb
200801K1_6	1000	1.03	NO	44.77	1.041	1.57e7	1.18e6	1010	1.1	1.32	bb

Compound name: PCB-186  
 Response Factor: 1.32902  
 RRF SD: 0.119081, Relative SD: 8.96013  
 Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	0.250	1.08	NO	45.37	1.056	2.56e3	9.28e5	0.207	-17.1	1.10	MM
200801K1_2	1.00	0.95	NO	45.39	1.056	1.36e4	1.02e6	1.01	0.8	1.34	MM

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Compound name: PCB-186

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	1.07	NO	45.39	1.056	3.39e4	1.03e6	2.47	-1.3	1.31	bb
200601K1_4	50.0	1.02	NO	45.39	1.056	7.15e5	1.01e6	53.1	6.1	1.41	bb
200601K1_5	400	1.03	NO	45.39	1.056	6.42e6	1.13e6	426	6.5	1.42	bb
200601K1_6	1000	1.04	NO	45.39	1.056	1.85e7	1.18e6	1050	5.0	1.40	bb

Compound name: PCB-178

Response Factor: 0.943241

RRF SD: 0.0555819, Relative SD: 5.89285

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.09	NO	45.88	1.067	1.99e3	9.28e5	0.227	-9.2	0.857	MM
200601K1_2	1.00	1.03	NO	45.90	1.068	9.96e3	1.02e6	1.04	3.9	0.980	bb
200601K1_3	2.50	1.02	NO	45.90	1.068	2.31e4	1.03e6	2.37	-5.2	0.894	bb
200601K1_4	50.0	1.03	NO	45.90	1.067	5.05e5	1.01e6	52.9	5.8	0.996	bb
200601K1_5	400	1.04	NO	45.90	1.067	4.43e6	1.13e6	414	3.4	0.975	bb
200601K1_6	1000	1.04	NO	45.90	1.067	1.13e7	1.18e6	1010	1.4	0.956	bb

Compound name: PCB-175

Response Factor: 0.956238

RRF SD: 0.0418022, Relative SD: 4.37152

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.01	NO	46.24	1.076	2.15e3	9.26e5	0.242	-3.0	0.927	bd
200601K1_2	1.00	1.01	NO	46.24	1.076	9.07e3	1.02e6	0.934	-6.6	0.893	MM
200601K1_3	2.50	1.00	NO	46.26	1.076	2.45e4	1.03e6	2.47	-1.1	0.946	bd
200601K1_4	50.0	1.04	NO	46.26	1.076	5.06e5	1.01e6	52.2	4.5	0.999	bd
200601K1_5	400	1.04	NO	46.26	1.076	4.52e6	1.13e6	417	4.1	0.996	bd
200601K1_6	1000	1.04	NO	46.26	1.076	1.18e7	1.18e6	1020	2.1	0.977	bd

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Compound name: PCB-182/187

Response Factor: 1.06615

RRF SD: 0.0507133, Relative SD: 4.75669

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.500	1.16	NO	46.43	1.080	4.78e3	9.28e5	0.483	-3.3	1.03	MM
200801K1_2	2.00	1.06	NO	46.43	1.080	2.07e4	1.02e6	1.91	-4.4	1.02	db
200801K1_3	5.00	1.00	NO	46.43	1.080	5.24e4	1.03e6	4.74	-5.1	1.01	MM
200801K1_4	100	1.04	NO	46.43	1.080	1.13e6	1.01e6	104	4.2	1.11	db
200801K1_5	800	1.05	NO	46.43	1.080	1.02e7	1.13e6	840	5.0	1.12	db
200801K1_6	2000	1.04	NO	46.43	1.080	2.62e7	1.18e6	2070	3.7	1.11	db

Compound name: PCB-183

Response Factor: 1.02281

RRF SD: 0.0863349, Relative SD: 8.44093

Response type: Internal Std ( Ref 204 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	1.07	NO	46.76	1.066	2.03e3	9.28e5	0.214	-14.4	0.875	MM
200801K1_2	1.00	1.12	NO	46.76	1.066	9.96e3	1.02e6	0.958	-4.2	0.980	bb
200801K1_3	2.50	1.02	NO	46.76	1.066	2.62e4	1.03e6	2.47	-1.0	1.01	bb
200801K1_4	50.0	1.03	NO	46.76	1.067	5.52e5	1.01e6	53.3	6.5	1.09	bb
200801K1_5	400	1.04	NO	46.76	1.067	4.98e6	1.13e6	429	7.3	1.10	bb
200801K1_6	1000	1.04	NO	46.76	1.067	1.28e7	1.18e6	1060	5.8	1.08	bb

Compound name: PCB-185

Response Factor: 1.40567

RRF SD: 0.0901625, Relative SD: 6.41419

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRF	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	1.06	NO	47.44	0.955	1.96e3	6.16e5	0.227	-9.4	1.27	bb
200801K1_2	1.00	1.04	NO	47.44	0.955	9.08e3	6.54e5	0.986	-1.4	1.39	bb

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Compound name: PCB-185

Name	Std. Conc.	RA	rv	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_3	2.50	1.05	NO	47.44	0.955	2.33e4	7.01e5	2.37	-5.3	1.33	bb
200801K1_4	50.0	1.02	NO	47.44	0.955	4.98e5	6.87e5	53.2	6.4	1.50	bb
200801K1_5	400	1.04	NO	47.44	0.955	4.39e6	7.40e5	422	5.5	1.48	bb
200801K1_6	1000	1.04	NO	47.44	0.955	1.14e7	7.81e5	1040	4.1	1.48	bb

Compound name: PCB-174

Response Factor: 1.35369

RRF SD: 0.0944983, Relative SD: 6.9808

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	rv	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.10	NO	47.80	0.962	1.90e3	6.16e5	0.228	-6.7	1.24	MM
200801K1_2	1.00	1.15	NO	47.82	0.962	8.12e3	6.54e5	0.918	-6.2	1.24	bd
200801K1_3	2.50	1.06	NO	47.82	0.962	2.37e4	7.01e5	2.50	0.2	1.36	bd
200801K1_4	50.0	1.04	NO	47.82	0.962	4.78e5	6.87e5	53.0	5.9	1.43	bd
200801K1_5	400	1.03	NO	47.82	0.962	4.29e6	7.40e5	428	7.1	1.45	bd
200801K1_6	1000	1.02	NO	47.82	0.962	1.10e7	7.81e5	1040	3.8	1.40	bd

Compound name: PCB-181

Response Factor: 1.47446

RRF SD: 0.117329, Relative SD: 7.9574

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	rv	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	0.250	1.20	NO	47.91	0.964	2.03e3	6.16e5	0.224	-10.4	1.32	MM
200801K1_2	1.00	1.15	NO	47.91	0.964	1.02e4	6.54e5	1.06	6.2	1.57	dd
200801K1_3	2.50	1.07	NO	47.91	0.964	2.32e4	7.01e5	2.25	-10.0	1.33	dd
200801K1_4	50.0	1.03	NO	47.93	0.965	5.11e5	6.87e5	52.0	4.1	1.53	dd
200801K1_5	400	1.04	NO	47.93	0.965	4.60e6	7.40e5	422	5.5	1.56	dd
200801K1_6	1000	1.04	NO	47.93	0.965	1.21e7	7.81e5	1050	4.8	1.54	dd

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Compound name: PCB-177  
 Response Factor: 1.27779  
 RRF SD: 0.0954777, Relative SD: 7.4721  
 Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.00	NO	48.10	0.968	1.77e3	6.16e5	0.225	-10.2	1.15	MM
200601K1_2	1.00	1.02	NO	48.10	0.968	7.89e3	6.54e5	0.945	-5.5	1.21	dd
200601K1_3	2.50	1.13	NO	48.10	0.968	2.15e4	7.01e5	2.40	-3.9	1.23	MM
200601K1_4	50.0	1.04	NO	48.10	0.968	4.52e5	6.67e5	53.0	6.1	1.36	db
200601K1_5	400	1.04	NO	48.10	0.968	4.08e6	7.40e5	432	7.9	1.36	db
200601K1_6	1000	1.03	NO	48.10	0.968	1.05e7	7.81e5	1060	5.8	1.35	db

Compound name: PCB-171  
 Response Factor: 1.31619  
 RRF SD: 0.111307, Relative SD: 8.45674  
 Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.15	NO	48.38	0.974	1.77e3	6.16e5	0.218	-12.6	1.15	MM
200601K1_2	1.00	0.99	NO	48.38	0.974	8.25e3	6.54e5	0.959	-4.1	1.26	MM
200601K1_3	2.50	0.98	NO	48.38	0.974	2.19e4	7.01e5	2.38	-4.9	1.25	MM
200601K1_4	50.0	1.03	NO	48.40	0.974	4.88e5	6.67e5	53.3	6.8	1.40	bd
200601K1_5	400	1.02	NO	48.40	0.974	4.19e6	7.40e5	431	7.8	1.42	bd
200601K1_6	1000	1.04	NO	48.40	0.974	1.10e7	7.81e5	1070	7.4	1.41	bd

Compound name: PCB-173  
 Response Factor: 1.18982  
 RRF SD: 0.0600259, Relative SD: 5.04452  
 Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	Qty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.93	NO	48.84	0.983	1.75e3	6.16e5	0.238	-4.7	1.13	MM
200601K1_2	1.00	1.12	NO	48.84	0.983	7.51e3	6.54e5	0.968	-3.4	1.15	MM

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Compound name: PCB-173

Name	Std. Conc.	RA	rfy	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	2.50	1.03	NO	48.84	0.983	1.97e4	7.01e5	2.36	-5.5	1.12	MM
200601K1_4	50.0	1.06	NO	48.84	0.983	4.15e5	6.67e5	52.4	4.7	1.25	dd
200601K1_5	400	1.03	NO	48.84	0.983	3.70e6	7.40e5	420	5.0	1.25	dd
200601K1_6	1000	1.03	NO	48.84	0.983	9.66e6	7.81e5	1040	3.9	1.24	bb

Compound name: PCB-172

Response Factor: 1.37524

RRF SD: 0.11268, Relative SD: 8.20798

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	rfy	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.00	NO	49.29	0.992	1.87e3	6.16e5	0.221	-11.5	1.22	dd
200601K1_2	1.00	0.96	NO	49.29	0.992	8.89e3	6.54e5	0.967	-3.3	1.33	dd
200601K1_3	2.50	1.04	NO	49.29	0.992	2.25e4	7.01e5	2.34	-6.4	1.29	dd
200601K1_4	50.0	1.05	NO	49.29	0.992	4.86e5	6.67e5	53.0	5.9	1.46	dd
200601K1_5	400	1.03	NO	49.29	0.992	4.39e6	7.40e5	432	7.9	1.46	dd
200601K1_6	1000	1.04	NO	49.29	0.992	1.15e7	7.81e5	1070	7.4	1.46	dd

Compound name: PCB-192

Response Factor: 1.82672

RRF SD: 0.139002, Relative SD: 7.60937

Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	rfy	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	0.89	NO	49.48	0.996	3.10e3	8.16e5	0.278	10.3	2.02	MM
200601K1_2	1.00	1.10	NO	49.48	0.996	1.06e4	6.54e5	0.885	-11.5	1.62	dd
200601K1_3	2.50	1.05	NO	49.50	0.996	3.02e4	7.01e5	2.36	-5.7	1.72	dd
200601K1_4	50.0	1.03	NO	49.50	0.996	6.16e5	6.67e5	50.8	1.2	1.65	dd
200601K1_5	400	1.03	NO	49.50	0.996	5.80e6	7.40e5	414	3.6	1.89	dd
200601K1_6	1000	1.03	NO	49.50	0.996	1.46e7	7.81e5	1020	2.1	1.87	dd

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Compound name: PCB-180  
 Response Factor: 1.41175  
 RRF SD: 0.126648, Relative SD: 8.97102  
 Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.250	1.08	NO	49.71	1.000	1.80e3	6.16e5	0.207	-17.2	1.17	dd
200601K1_2	1.00	1.20	NO	49.71	1.000	9.48e3	6.54e5	1.03	2.7	1.45	dd
200601K1_3	2.50	1.02	NO	49.71	1.000	2.42e4	7.01e5	2.45	-2.0	1.38	dd
200601K1_4	50.0	1.03	NO	49.71	1.000	4.91e5	6.67e5	52.2	4.4	1.47	dd
200601K1_5	400	1.04	NO	49.71	1.000	4.47e6	7.40e5	428	7.0	1.51	dd
200601K1_6	1000	1.03	NO	49.71	1.000	1.16e7	7.81e5	1050	5.0	1.48	dd

Compound name: PCB-183  
 Response Factor: 1.67682  
 RRF SD: 0.0708905, Relative SD: 4.22768  
 Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.250	1.18	NO	49.92	1.005	2.64e3	6.16e5	0.256	2.4	1.72	MM
200601K1_2	1.00	1.01	NO	49.92	1.005	1.06e4	6.54e5	0.963	-3.7	1.81	db
200601K1_3	2.50	0.99	NO	49.92	1.005	2.74e4	7.01e5	2.33	-6.8	1.56	MM
200601K1_4	50.0	1.03	NO	49.92	1.005	5.70e5	6.67e5	51.0	2.0	1.71	db
200601K1_5	400	1.04	NO	49.92	1.005	5.14e6	7.40e5	415	3.7	1.74	dd
200601K1_6	1000	1.03	NO	49.92	1.005	1.34e7	7.81e5	1030	2.5	1.72	db

Compound name: PCB-181  
 Response Factor: 1.71019  
 RRF SD: 0.0665243, Relative SD: 3.88988  
 Response type: Internal Std ( Ref 205 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	0.250	1.04	NO	50.19	1.010	2.61e3	6.16e5	0.248	-1.0	1.69	MM
200601K1_2	1.00	1.08	NO	50.19	1.010	1.08e4	6.54e5	0.963	-3.7	1.85	MM



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**Compound name: PCB-191**

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	2.50	0.92	NO	50.19	1.010	2.85e4	7.01e5	2.38	-5.0	1.62	MM
200601K1_4	50.0	1.00	NO	50.19	1.010	5.78e5	6.67e5	50.8	1.5	1.74	bb
200601K1_5	400	1.04	NO	50.19	1.010	5.29e6	7.40e5	418	4.6	1.79	dd
200601K1_6	1000	1.05	NO	50.19	1.010	1.36e7	7.81e5	1040	3.6	1.77	bd

**Compound name: PCB-170**

Response Factor: 1.40071

RRF SD: 0.105718, Relative SD: 7.54749

Response type: Internal Std ( Ref 206 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.10	NO	51.36	1.000	1.64e3	5.21e5	0.224	-10.3	1.26	MM
200601K1_2	1.00	0.97	NO	51.36	1.000	7.54e3	5.75e5	0.935	-6.5	1.31	MM
200601K1_3	2.50	1.08	NO	51.36	1.000	2.11e4	6.11e5	2.46	-1.4	1.38	MM
200601K1_4	50.0	1.04	NO	51.36	1.000	4.14e5	5.78e5	51.0	2.1	1.43	bd
200601K1_5	400	1.03	NO	51.36	1.000	3.73e6	6.11e5	438	9.0	1.53	bd
200601K1_6	1000	1.02	NO	51.36	1.000	9.85e6	6.57e5	1070	7.1	1.50	bd

**Compound name: PCB-190**

Response Factor: 1.85102

RRF SD: 0.142118, Relative SD: 7.67782

Response type: Internal Std ( Ref 206 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	0.250	1.07	NO	51.59	1.004	2.26e3	5.21e5	0.234	-6.3	1.73	MM
200601K1_2	1.00	1.09	NO	51.59	1.004	9.81e3	5.75e5	0.921	-7.9	1.71	MM
200601K1_3	2.50	1.11	NO	51.59	1.004	2.68e4	6.11e5	2.37	-5.3	1.75	MM
200601K1_4	50.0	1.00	NO	51.59	1.004	5.43e5	5.78e5	50.7	1.4	1.88	db
200601K1_5	400	1.04	NO	51.59	1.004	4.96e6	6.11e5	439	9.7	2.03	db
200601K1_6	1000	1.05	NO	51.59	1.004	1.32e7	6.57e5	1060	8.4	2.01	db

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Compound name: PCB-189  
 Response Factor: 1.4524  
 RRF SD: 0.0988417, Relative SD: 6.80541  
 Response type: Internal Std ( Ref 207 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Inty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.18	NO	53.08	1.000	2.37e3	6.87e5	0.238	-5.0	1.38	MM
200601K1_2	1.00	1.00	NO	53.10	1.000	1.00e4	7.42e5	0.932	-6.8	1.35	MM
200601K1_3	2.50	1.09	NO	53.10	1.000	2.75e4	8.11e5	2.34	-6.5	1.36	MM
200601K1_4	50.0	1.03	NO	53.10	1.000	5.78e5	7.81e5	52.1	4.2	1.51	bb
200601K1_5	400	1.02	NO	53.10	1.000	5.04e6	8.07e5	430	7.5	1.56	bb
200601K1_6	1000	1.02	NO	53.10	1.000	1.34e7	8.85e5	1070	8.8	1.55	bb

Compound name: PCB-202  
 Response Factor: 1.16825  
 RRF SD: 0.08292, Relative SD: 7.09778  
 Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Inty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.93	NO	48.59	1.000	1.92e3	6.72e5	0.245	-2.2	1.14	MM
200601K1_2	1.00	1.02	NO	48.61	1.000	7.83e3	7.55e5	0.888	-11.2	1.04	MM
200601K1_3	2.50	0.94	NO	48.61	1.000	2.18e4	7.88e5	2.43	-2.8	1.14	bb
200601K1_4	50.0	0.89	NO	48.61	1.000	4.58e5	7.74e5	50.8	1.3	1.18	bb
200601K1_5	400	0.91	NO	48.61	1.000	4.13e6	8.21e5	431	7.7	1.26	bb
200601K1_6	1000	0.91	NO	48.61	1.000	1.08e7	8.48e5	1070	7.2	1.25	bb

Compound name: PCB-201  
 Response Factor: 1.05277  
 RRF SD: 0.0608949, Relative SD: 5.78427  
 Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	Inty	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	0.79	NO	49.10	1.011	1.71e3	6.72e5	0.241	-3.6	1.01	bd
200601K1_2	1.00	0.90	NO	49.10	1.010	7.27e3	7.55e5	0.915	-8.5	0.983	bd

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Compound name: PCB-201

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X#	dropped
200601K1_3	2.50	0.94	NO	49.10	1.010	1.99e4	7.86e5	2.47	-1.2	1.04		bd
200601K1_4	50.0	0.91	NO	49.10	1.010	4.10e5	7.74e5	50.3	0.7	1.06		bd
200601K1_5	400	0.92	NO	49.10	1.010	3.66e6	8.21e5	424	6.0	1.12		bd
200601K1_6	1000	0.91	NO	49.10	1.010	9.50e6	8.46e5	1070	6.6	1.12		bd

Compound name: PCB-204

Response Factor: 1.1409

RRF SD: 0.0887975, Relative SD: 7.78308

Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X#	dropped
200601K1_1	0.250	0.77	NO	49.24	1.014	1.83e3	6.72e5	0.238	-4.6	1.09		MM
200601K1_2	1.00	0.89	NO	49.28	1.014	8.01e3	7.55e5	0.930	-7.0	1.06		db
200601K1_3	2.50	0.82	NO	49.26	1.014	2.04e4	7.86e5	2.34	-6.5	1.07		db
200601K1_4	50.0	0.90	NO	49.26	1.014	4.36e5	7.74e5	49.4	-1.2	1.13		db
200601K1_5	400	0.91	NO	49.28	1.014	4.07e6	8.21e5	435	8.7	1.24		db
200601K1_6	1000	0.91	NO	49.26	1.014	1.07e7	8.46e5	1110	10.6	1.26		db

Compound name: PCB-197

Response Factor: 1.13263

RRF SD: 0.0852075, Relative SD: 7.52295

Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X#	dropped
200601K1_1	0.250	0.99	NO	49.58	1.021	1.89e3	6.72e5	0.248	-0.9	1.12		MM
200601K1_2	1.00	1.01	NO	49.58	1.020	7.47e3	7.55e5	0.874	-12.6	0.989		bb
200601K1_3	2.50	0.99	NO	49.58	1.020	2.16e4	7.86e5	2.49	-0.4	1.13		MM
200601K1_4	50.0	0.90	NO	49.58	1.020	4.31e5	7.74e5	49.2	-1.6	1.11		bb
200601K1_5	400	0.91	NO	49.58	1.020	4.00e6	8.21e5	431	7.7	1.22		bb
200601K1_6	1000	0.89	NO	49.58	1.020	1.03e7	8.46e5	1080	7.8	1.22		bb

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Compound name: PCB-200  
 Response Factor: 1.07032  
 RRF SD: 0.0809843, Relative SD: 7.56448  
 Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	1.00	NO	50.51	1.040	1.84e3	6.72e5	0.256	2.3	1.09	bb
2	200601K1_2	1.00	0.95	NO	50.51	1.039	7.00e3	7.55e5	0.866	-13.4	0.927	bb
3	200601K1_3	2.50	0.87	NO	50.51	1.039	2.02e4	7.66e5	2.46	-1.7	1.05	bb
4	200601K1_4	50.0	0.90	NO	50.53	1.040	4.10e5	7.74e5	49.5	-1.1	1.06	bb
5	200601K1_5	400	0.90	NO	50.53	1.040	3.78e6	8.21e5	430	7.5	1.15	bb
6	200601K1_6	1000	0.89	NO	50.53	1.040	9.83e6	8.48e5	1060	6.4	1.14	bb

Compound name: PCB-198  
 Response Factor: 0.793834  
 RRF SD: 0.0466547, Relative SD: 5.87713  
 Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	0.81	NO	52.08	1.072	1.22e3	6.72e5	0.229	-8.4	0.727	MM
2	200601K1_2	1.00	0.84	NO	52.08	1.072	5.92e3	7.55e5	0.988	-1.2	0.784	bd
3	200601K1_3	2.50	0.85	NO	52.08	1.072	1.51e4	7.66e5	2.48	-0.9	0.787	bd
4	200601K1_4	50.0	0.91	NO	52.08	1.072	2.98e5	7.74e5	48.8	-2.9	0.771	bd
5	200601K1_5	400	0.89	NO	52.08	1.072	2.76e6	8.21e5	424	6.0	0.841	bd
6	200601K1_6	1000	0.89	NO	52.08	1.072	7.22e6	8.48e5	1070	7.5	0.853	bd

Compound name: PCB-199  
 Response Factor: 0.809242  
 RRF SD: 0.0640263, Relative SD: 7.91189  
 Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200601K1_1	0.250	0.83	NO	52.21	1.075	1.18e3	6.72e5	0.216	-13.6	0.699	MM
2	200601K1_2	1.00	0.93	NO	52.19	1.074	6.27e3	7.55e5	1.03	2.7	0.831	db

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Compound name: PCB-199

Name	Std Conc	RA	RF	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_3	2.50	1.00	NO	52.21	1.074	1.51e4	7.86e5	2.43	-2.8	0.786	MM
200801K1_4	50.0	0.92	NO	52.21	1.074	3.10e5	7.74e5	49.5	-1.0	0.801	db
200801K1_5	400	0.89	NO	52.21	1.074	2.81e6	8.21e5	424	5.9	0.857	db
200801K1_6	1000	0.90	NO	52.21	1.074	7.45e6	8.46e5	1090	8.8	0.881	db

Compound name: PCB-198/203

Response Factor: 0.838202

RRF SD: 0.0715006, Relative SD: 8.53023

Response type: Internal Std ( Ref 208 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	RF	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.500	1.00	NO	52.50	1.081	2.91e3	6.72e5	0.518	3.1	0.884	bb
200801K1_2	2.00	0.93	NO	52.50	1.080	1.09e4	7.55e5	1.73	-13.8	0.724	bd
200801K1_3	5.00	0.94	NO	52.50	1.080	3.07e4	7.86e5	4.79	-4.3	0.802	MM
200801K1_4	100	0.90	NO	52.51	1.081	6.36e5	7.74e5	98.1	-1.9	0.822	bb
200801K1_5	800	0.91	NO	52.51	1.081	5.85e6	8.21e5	850	6.2	0.891	bb
200801K1_6	2000	0.91	NO	52.51	1.081	1.57e7	8.46e5	2210	10.4	0.926	bb

Compound name: PCB-195

Response Factor: 1.04444

RRF SD: 0.0883119, Relative SD: 8.45545

Response type: Internal Std ( Ref 209 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	RF	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	0.81	NO	53.79	0.983	1.54e3	6.54e5	0.225	-9.8	0.942	MM
200801K1_2	1.00	0.81	NO	53.79	0.983	6.86e3	6.72e5	0.948	-5.2	0.990	bb
200801K1_3	2.50	0.88	NO	53.79	0.983	1.83e4	7.55e5	2.32	-7.2	0.970	bb
200801K1_4	50.0	0.88	NO	53.81	0.984	3.74e5	6.85e5	52.4	4.7	1.09	bd
200801K1_5	400	0.89	NO	53.79	0.983	3.33e6	7.19e5	443	10.8	1.16	bd
200801K1_6	1000	0.90	NO	53.81	0.984	8.99e6	8.07e5	1070	6.6	1.11	bd

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Compound name: PCB-194  
 Response Factor: 1.11592  
 RRF SD: 0.0652125, Relative SD: 5.84384  
 Response type: Internal Std ( Ref 209 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	in/	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	0.76	NO	54.72	1.000	1.92e3	6.54e5	0.262	4.9	1.17	MM
200801K1_2	1.00	0.91	NO	54.72	1.000	7.03e3	6.72e5	0.937	-6.3	1.05	bb
200801K1_3	2.50	0.91	NO	54.72	1.000	1.84e4	7.55e5	2.30	-6.1	1.03	bb
200801K1_4	50.0	0.88	NO	54.72	1.000	3.84e5	6.85e5	50.2	0.5	1.12	bb
200801K1_5	400	0.88	NO	54.72	1.000	3.39e6	7.19e5	422	5.5	1.18	bb
200801K1_6	1000	0.89	NO	54.72	1.000	9.32e6	8.07e5	1040	3.5	1.16	bb

Compound name: PCB-205  
 Response Factor: 1.28935  
 RRF SD: 0.0752087, Relative SD: 5.83305  
 Response type: Internal Std ( Ref 209 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	in/	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	1.01	NO	54.99	1.005	1.97e3	6.54e5	0.233	-6.7	1.20	MM
200801K1_2	1.00	0.88	NO	54.99	1.005	8.47e3	8.72e5	0.977	-2.3	1.26	bb
200801K1_3	2.50	0.92	NO	54.99	1.005	2.29e4	7.55e5	2.35	-5.8	1.21	bb
200801K1_4	50.0	0.89	NO	54.99	1.005	4.55e5	6.85e5	51.5	3.1	1.33	bb
200801K1_5	400	0.87	NO	54.99	1.005	4.00e6	7.19e5	431	7.9	1.39	bb
200801K1_6	1000	0.88	NO	54.99	1.005	1.08e7	8.07e5	1040	3.9	1.34	bb

Compound name: PCB-208  
 Response Factor: 0.933088  
 RRF SD: 0.0782208, Relative SD: 8.383  
 Response type: Internal Std ( Ref 210 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	in/	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200801K1_1	0.250	1.28	NO	53.95	1.000	1.83e3	8.27e5	0.237	-5.3	0.884	bb
200801K1_2	1.00	1.34	NO	53.95	1.000	7.27e3	8.89e5	0.876	-12.4	0.818	bb

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Compound name: PCB-208

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	2.50	1.29	NO	53.95	1.000	2.17e4	9.56e5	2.43	-2.9	0.908	bb
200601K1_4	50.0	1.35	NO	53.95	1.000	4.38e5	9.09e5	51.6	3.3	0.964	bb
200601K1_5	400	1.35	NO	53.95	1.000	3.85e6	9.40e5	439	9.7	1.02	bb
200601K1_6	1000	1.34	NO	53.95	1.000	1.02e7	1.01e6	1080	7.8	1.00	bb

Compound name: PCB-207

Response Factor: 0.916302

RRF SD: 0.0559032, Relative SD: 6.10095

Response type: Internal Std ( Ref 210 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.18	NO	54.29	1.007	1.83e3	6.27e5	0.242	-3.3	0.886	bb
200601K1_2	1.00	1.36	NO	54.29	1.007	7.46e3	8.89e5	0.915	-8.5	0.839	bb
200601K1_3	2.50	1.29	NO	54.29	1.007	2.13e4	9.56e5	2.44	-2.5	0.893	bb
200601K1_4	50.0	1.35	NO	54.29	1.007	4.18e5	9.09e5	50.2	0.4	0.920	bb
200601K1_5	400	1.32	NO	54.29	1.007	3.69e6	9.40e5	428	7.0	0.981	bb
200601K1_6	1000	1.32	NO	54.29	1.007	9.93e6	1.01e6	1070	6.9	0.979	bb

Compound name: PCB-206

Response Factor: 1.00741

RRF SD: 0.0633496, Relative SD: 6.28838

Response type: Internal Std ( Ref 211 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	0.250	1.24	NO	56.24	1.000	1.17e3	4.83e5	0.240	-4.2	0.965	bb
200601K1_2	1.00	1.28	NO	56.25	1.000	4.56e3	4.90e5	0.928	-7.2	0.935	bd
200601K1_3	2.50	1.39	NO	56.25	1.000	1.33e4	5.49e5	2.40	-4.0	0.987	bb
200601K1_4	50.0	1.35	NO	56.25	1.000	2.55e5	5.03e5	50.4	0.7	1.01	dd
200601K1_5	400	1.33	NO	56.25	1.000	2.21e6	5.04e5	435	8.8	1.10	dd
200601K1_6	1000	1.34	NO	56.25	1.000	5.91e6	5.54e5	1080	5.9	1.07	bd

Dataset: U:\VG11.PRO\Results\200601K1\200601K1-CRVB.qld

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Compound name: PCB-209  
 Response Factor: 0.986438  
 RRF SD: 0.0459049, Relative SD: 4.6536  
 Response type: Internal Std ( Ref 212 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200601K1_1	0.250	1.31	NO	57.48	1.000	8.49e2	3.85e5	0.236	-5.8	0.930	bb
200601K1_2	1.00	1.14	NO	57.49	1.000	3.51e3	3.67e5	0.970	-3.0	0.957	bb
200601K1_3	2.50	1.20	NO	57.49	1.000	9.28e3	3.88e5	2.42	-3.1	0.956	bb
200601K1_4	50.0	1.19	NO	57.49	1.000	1.78e5	3.55e5	50.8	1.8	1.00	bb
200601K1_5	400	1.18	NO	57.49	1.000	1.45e6	3.47e5	424	6.0	1.05	bb
200601K1_6	1000	1.18	NO	57.49	1.000	3.98e6	3.87e5	1040	4.2	1.03	bb

Compound name: 13C-PCB-1  
 Response Factor: 0.893492  
 RRF SD: 0.0183374, Relative SD: 2.05233  
 Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200601K1_1	100	3.27	NO	15.51	0.608	2.37e6	2.62e6	101	1.1	0.903	bb
200601K1_2	100	3.24	NO	15.52	0.608	2.53e6	2.80e6	101	1.1	0.903	bb
200601K1_3	100	3.25	NO	15.53	0.609	2.46e6	2.85e6	98.8	-3.4	0.863	bb
200601K1_4	100	3.38	NO	15.53	0.609	2.44e6	2.67e6	102	2.2	0.914	bb
200601K1_5	100	3.20	NO	15.53	0.609	2.52e6	2.81e6	100	0.3	0.896	bb
200601K1_6	100	3.24	NO	15.53	0.609	2.44e6	2.77e6	98.7	-1.3	0.882	bb

Compound name: 13C-PCB-3  
 Response Factor: 0.910947  
 RRF SD: 0.0156258, Relative SD: 1.71533  
 Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200601K1_1	100	3.25	NO	18.16	0.711	2.41e6	2.62e6	101	1.0	0.920	bb
200601K1_2	100	3.30	NO	18.16	0.711	2.58e6	2.80e6	101	1.3	0.923	bb



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Compound name: 13C-PCB-3

Name	Std. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_3	100	3.32	NO	18.17	0.712	2.54e6	2.85e6	97.7	-2.3	0.890	bb
200801K1_4	100	3.19	NO	18.17	0.712	2.46e6	2.87e6	101	1.1	0.921	bb
200801K1_5	100	3.37	NO	18.17	0.712	2.58e6	2.81e6	101	1.1	0.921	bb
200801K1_6	100	3.32	NO	18.17	0.712	2.47e6	2.77e6	97.9	-2.1	0.892	bb

Compound name: 13C-PCB-4

Response Factor: 0.599965

RRF SD: 0.0112844, Relative SD: 1.87751

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	1.59	NO	19.51	0.765	1.57e6	2.62e6	99.7	-0.3	0.598	bb
200801K1_2	100	1.81	NO	19.52	0.765	1.72e6	2.80e6	102	2.1	0.613	bb
200801K1_3	100	1.80	NO	19.52	0.765	1.87e6	2.85e6	97.5	-2.5	0.585	bb
200801K1_4	100	1.80	NO	19.53	0.765	1.82e6	2.87e6	101	0.8	0.605	bb
200801K1_5	100	1.58	NO	19.52	0.765	1.72e6	2.81e6	102	1.7	0.610	bb
200801K1_6	100	1.58	NO	19.53	0.765	1.83e6	2.77e6	98.2	-1.8	0.589	bb

Compound name: 13C-PCB-9

Response Factor: 0.989602

RRF SD: 0.0158818, Relative SD: 1.63589

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	nty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	1.57	NO	21.33	0.836	2.57e6	2.62e6	101	1.2	0.981	bb
200801K1_2	100	1.57	NO	21.34	0.836	2.77e6	2.80e6	102	2.0	0.989	bb
200801K1_3	100	1.58	NO	21.35	0.836	2.71e6	2.85e6	98.0	-2.0	0.950	bb
200801K1_4	100	1.57	NO	21.35	0.836	2.81e6	2.87e6	101	0.6	0.975	bb
200801K1_5	100	1.58	NO	21.35	0.836	2.73e6	2.81e6	100	0.2	0.972	bb
200801K1_6	100	1.55	NO	21.35	0.836	2.83e6	2.77e6	98.1	-1.9	0.951	bb

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Compound name: 13C-PCB-11  
 Response Factor: 0.961529  
 RRF SD: 0.00722668, Relative SD: 0.751582  
 Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	100	1.57	NO	24.76	0.971	2.53e6	2.62e6	100	0.5	0.966	bb
200601K1_2	100	1.57	NO	24.79	0.972	2.70e6	2.80e6	100	0.3	0.964	bb
200601K1_3	100	1.57	NO	24.80	0.972	2.71e6	2.85e6	98.9	-1.1	0.951	bb
200601K1_4	100	1.56	NO	24.80	0.972	2.56e6	2.87e6	99.5	-0.5	0.957	bb
200601K1_5	100	1.57	NO	24.80	0.972	2.70e6	2.81e6	99.8	-0.2	0.960	bb
200601K1_6	100	1.57	NO	24.80	0.972	2.69e6	2.77e6	101	1.0	0.971	bb

Compound name: 13C-PCB-19  
 Response Factor: 0.498883  
 RRF SD: 0.00572334, Relative SD: 1.14723  
 Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	100	1.02	NO	23.75	0.931	1.32e6	2.62e6	101	0.8	0.503	bb
200601K1_2	100	1.03	NO	23.75	0.931	1.42e6	2.80e6	101	1.3	0.505	bb
200601K1_3	100	1.04	NO	23.76	0.931	1.39e6	2.85e6	98.1	-1.9	0.489	bb
200601K1_4	100	1.02	NO	23.76	0.931	1.33e6	2.67e6	99.5	-0.5	0.496	bb
200601K1_5	100	1.00	NO	23.76	0.931	1.40e6	2.81e6	99.8	-0.2	0.496	bb
200601K1_6	100	1.01	NO	23.76	0.931	1.39e6	2.77e6	101	0.5	0.501	bb

Compound name: 13C-PCB-32  
 Response Factor: 0.74412  
 RRF SD: 0.0231643, Relative SD: 3.11298  
 Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	100	1.04	NO	26.74	1.048	1.93e6	2.62e6	99.1	-0.9	0.737	bb
200601K1_2	100	1.05	NO	26.75	1.048	2.07e6	2.80e6	99.5	-0.5	0.741	bb

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Compound name: 13C-PCB-32

Name	Std. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	100	1.02	NO	28.75	1.048	2.03e6	2.85e6	95.5	-4.5	0.710	bb
200601K1_4	100	1.03	NO	28.75	1.048	1.97e6	2.87e6	99.2	-0.8	0.739	bb
200601K1_5	100	1.04	NO	28.75	1.048	2.13e6	2.81e6	102	2.0	0.759	bb
200601K1_6	100	1.05	NO	28.75	1.048	2.18e6	2.77e6	105	4.7	0.779	bb

Compound name: 13C-PCB-28

Response Factor: 1.06428

RRF SD: 0.0550204, Relative SD: 5.16973

Response type: Internal Std ( Ref 214 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	100	1.03	NO	28.75	1.003	2.38e6	2.08e6	107	7.4	1.14	db
200601K1_2	100	1.04	NO	28.77	1.004	2.38e6	2.43e6	92.3	-7.7	0.983	db
200601K1_3	100	1.04	NO	28.77	1.004	2.33e6	2.26e6	97.0	-3.0	1.03	db
200601K1_4	100	1.04	NO	28.77	1.004	2.26e6	2.13e6	98.7	-0.3	1.06	db
200601K1_5	100	1.04	NO	28.77	1.004	2.40e6	2.24e6	100	0.4	1.07	db
200601K1_6	100	1.04	NO	28.77	1.004	2.39e6	2.18e6	103	3.2	1.10	db

Compound name: 13C-PCB-37

Response Factor: 0.989118

RRF SD: 0.0390859, Relative SD: 3.95159

Response type: Internal Std ( Ref 214 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	100	1.03	NO	32.75	1.143	2.11e6	2.08e6	102	2.5	1.01	bb
200601K1_2	100	1.02	NO	32.75	1.143	2.28e6	2.43e6	94.0	-8.0	0.930	bb
200601K1_3	100	1.05	NO	32.75	1.143	2.28e6	2.28e6	101	1.4	1.00	bb
200601K1_4	100	1.03	NO	32.75	1.143	2.09e6	2.13e6	99.2	-0.8	0.981	bb
200601K1_5	100	1.06	NO	32.75	1.143	2.17e6	2.24e6	97.8	-2.4	0.968	bb
200601K1_6	100	1.05	NO	32.77	1.143	2.27e6	2.18e6	105	5.3	1.04	bb

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Compound name: 13C-PCB-54  
 Response Factor: 0.99939  
 RRF SD: 0.0146278, Relative SD: 1.46368  
 Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	rf	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	0.77	NO	27.60	0.752	1.88e6	1.87e6	101	0.8	1.01	bb
200801K1_2	100	0.78	NO	27.62	0.753	1.85e6	1.82e6	102	1.7	1.02	bb
200801K1_3	100	0.79	NO	27.62	0.753	1.80e6	1.81e6	99.5	-0.5	0.995	bb
200801K1_4	100	0.79	NO	27.62	0.753	1.75e6	1.74e6	101	0.8	1.01	bb
200801K1_5	100	0.77	NO	27.62	0.752	1.88e6	1.89e6	99.7	-0.3	0.998	bb
200801K1_6	100	0.79	NO	27.62	0.752	1.88e6	1.92e6	97.5	-2.5	0.974	bb

Compound name: 13C-PCB-52  
 Response Factor: 0.804222  
 RRF SD: 0.0127119, Relative SD: 1.58085  
 Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	rf	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	0.78	NO	31.25	0.852	1.37e6	1.87e6	102	1.8	0.817	bd
200801K1_2	100	0.79	NO	31.26	0.852	1.50e6	1.82e6	102	2.3	0.823	bb
200801K1_3	100	0.81	NO	31.26	0.852	1.44e6	1.81e6	99.0	-1.0	0.796	bb
200801K1_4	100	0.79	NO	31.26	0.852	1.38e6	1.74e6	98.5	-1.5	0.792	bd
200801K1_5	100	0.77	NO	31.26	0.852	1.51e6	1.89e6	99.4	-0.6	0.799	bd
200801K1_6	100	0.77	NO	31.26	0.852	1.54e6	1.92e6	99.2	-0.8	0.796	bd

Compound name: 13C-PCB-47  
 Response Factor: 0.857338  
 RRF SD: 0.011554, Relative SD: 1.34766  
 Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

Name	Std. Conc.	RA	rf	RT	RRF	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	0.79	NO	31.77	0.866	1.44e6	1.87e6	100	0.3	0.860	bb
200801K1_2	100	0.78	NO	31.77	0.866	1.59e6	1.82e6	102	2.1	0.875	bb

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**Compound name: 13C-PCB-47**

Name	Std Conc	RA	Int	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	100	0.79	NO	31.78	0.867	1.53e6	1.81e6	98.3	-1.7	0.843	bb
200601K1_4	100	0.78	NO	31.78	0.867	1.49e6	1.74e6	100	-0.0	0.857	bb
200601K1_5	100	0.78	NO	31.78	0.866	1.60e6	1.89e6	98.7	-1.3	0.846	bb
200601K1_6	100	0.78	NO	31.78	0.866	1.66e6	1.92e6	101	0.5	0.862	bb

**Compound name: 13C-PCB-70**

Response Factor: 0.995775

RRF SD: 0.0166908, Relative SD: 1.67616

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Int	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	100	0.79	NO	35.40	0.965	1.70e6	1.67e6	102	2.3	1.02	bb
200601K1_2	100	0.79	NO	35.41	0.965	1.84e6	1.82e6	101	1.4	1.01	bb
200601K1_3	100	0.79	NO	35.41	0.965	1.79e6	1.81e6	99.4	-0.6	0.989	bb
200601K1_4	100	0.80	NO	35.41	0.965	1.73e6	1.74e6	100	0.1	0.997	bb
200601K1_5	100	0.79	NO	35.41	0.965	1.84e6	1.89e6	97.6	-2.4	0.972	bb
200601K1_6	100	0.79	NO	35.41	0.965	1.90e6	1.92e6	99.2	-0.8	0.988	bb

**Compound name: 13C-PCB-80**

Response Factor: 1.02819

RRF SD: 0.0132281, Relative SD: 1.28654

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Int	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	100	0.80	NO	35.84	0.977	1.75e6	1.67e6	102	1.8	1.05	bb
200601K1_2	100	0.79	NO	35.84	0.977	1.87e6	1.82e6	100	-0.0	1.03	bb
200601K1_3	100	0.79	NO	35.84	0.977	1.86e6	1.81e6	99.7	-0.3	1.03	bb
200601K1_4	100	0.79	NO	35.84	0.977	1.79e6	1.74e6	100	0.2	1.03	bb
200601K1_5	100	0.80	NO	35.84	0.977	1.90e6	1.89e6	97.8	-2.2	1.01	db
200601K1_6	100	0.77	NO	35.84	0.977	1.99e6	1.92e6	100	0.5	1.03	bb

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**Compound name: 13C-PCB-81**

Response Factor: 0.987991

RRF SD: 0.0137248, Relative SD: 1.38916

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
1	200801K1_1	100	0.79	NO	39.04	1.084	1.85e6	1.87e6	99.8	-0.2	0.986	bd
2	200801K1_2	100	0.79	NO	39.04	1.084	1.76e6	1.82e6	98.0	-2.0	0.988	bd
3	200801K1_3	100	0.79	NO	39.04	1.084	1.80e6	1.81e6	100	0.5	0.993	bd
4	200801K1_4	100	0.80	NO	39.04	1.084	1.70e6	1.74e6	99.2	-0.8	0.980	bb
5	200801K1_5	100	0.78	NO	39.04	1.084	1.86e6	1.89e6	101	0.6	0.994	bd
6	200801K1_6	100	0.78	NO	39.04	1.084	1.94e6	1.92e6	102	2.0	1.01	bd

**Compound name: 13C-PCB-77**

Response Factor: 0.988731

RRF SD: 0.0228063, Relative SD: 2.35425

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
1	200801K1_1	100	0.79	NO	39.66	1.081	1.59e6	1.67e6	98.5	-1.5	0.954	bb
2	200801K1_2	100	0.78	NO	39.66	1.081	1.71e6	1.82e6	97.0	-3.0	0.940	bb
3	200801K1_3	100	0.79	NO	39.66	1.081	1.75e6	1.81e6	99.7	-0.3	0.966	bb
4	200801K1_4	100	0.80	NO	39.66	1.081	1.69e6	1.74e6	101	0.6	0.975	bb
5	200801K1_5	100	0.81	NO	39.66	1.081	1.84e6	1.89e6	100	0.2	0.970	bb
6	200801K1_6	100	0.80	NO	39.66	1.081	1.94e6	1.92e6	104	4.0	1.01	bb

**Compound name: 13C-PCB-104**

Response Factor: 1.01645

RRF SD: 0.0338582, Relative SD: 3.33102

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
1	200801K1_1	100	1.58	NO	32.44	0.828	1.12e6	1.08e6	102	1.8	1.03	bb
2	200801K1_2	100	1.85	NO	32.46	0.827	1.26e6	1.18e6	105	4.9	1.07	bb

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Compound name: 13C-PCB-104

Name	Std. Conc.	RA	ny	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	100	1.62	NO	32.46	0.827	1.20e6	1.17e6	100	0.4	1.02	bb
200601K1_4	100	1.59	NO	32.46	0.827	1.17e6	1.15e6	100	0.3	1.02	bb
200601K1_5	100	1.62	NO	32.46	0.827	1.28e6	1.31e6	96.3	-3.7	0.979	bb
200601K1_6	100	1.63	NO	32.46	0.827	1.28e6	1.31e6	96.3	-3.7	0.979	bb

Compound name: 13C-PCB-95

Response Factor: 0.805195

RRF SD: 0.0178744, Relative SD: 2.19504

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	ny	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	100	1.86	NO	35.71	0.910	8.86e5	1.08e6	102	1.5	0.817	bb
200601K1_2	100	1.82	NO	35.71	0.910	9.83e5	1.18e6	101	1.5	0.817	bb
200601K1_3	100	1.81	NO	35.71	0.910	9.53e5	1.17e6	101	1.1	0.814	bb
200601K1_4	100	1.84	NO	35.73	0.910	9.36e5	1.15e6	101	0.8	0.812	bb
200601K1_5	100	1.81	NO	35.73	0.910	1.01e6	1.31e6	95.8	-4.2	0.772	bb
200601K1_6	100	1.80	NO	35.73	0.910	1.05e6	1.31e6	99.3	-0.7	0.799	bb

Compound name: 13C-PCB-101

Response Factor: 0.792577

RRF SD: 0.0148513, Relative SD: 1.84857

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	ny	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	100	1.86	NO	37.46	0.955	8.56e5	1.08e6	99.8	-0.4	0.789	bb
200601K1_2	100	1.87	NO	37.46	0.955	9.56e5	1.18e6	102	2.5	0.812	bb
200601K1_3	100	1.81	NO	37.46	0.955	9.39e5	1.17e6	101	1.2	0.802	bb
200601K1_4	100	1.80	NO	37.46	0.955	9.13e5	1.15e6	100	-0.0	0.793	bb
200601K1_5	100	1.80	NO	37.46	0.955	1.01e6	1.31e6	97.0	-3.0	0.769	bb
200601K1_6	100	1.87	NO	37.46	0.955	1.04e6	1.31e6	99.7	-0.3	0.790	bb

Dataset: U:\WG11.PRO\Results\200601K1\200601K1-CRVB.qld

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Compound name: 13C-PCB-97

Response Factor: 0.696385

RRF SD: 0.00628075, Relative SD: 0.901907

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev.	RRF	X = dropped
200601K1_1	100	1.63	NO	38.80	0.989	7.55e5	1.08e6	100	0.0	0.697	bb
200601K1_2	100	1.64	NO	38.80	0.989	8.31e5	1.18e6	101	1.2	0.705	bb
200601K1_3	100	1.63	NO	38.80	0.989	8.21e5	1.17e6	101	0.7	0.701	bb
200601K1_4	100	1.64	NO	38.80	0.989	7.95e5	1.15e6	99.0	-1.0	0.690	bb
200601K1_5	100	1.61	NO	38.80	0.989	9.02e5	1.31e6	99.0	-1.0	0.689	bb
200601K1_6	100	1.61	NO	38.80	0.989	9.13e5	1.31e6	100	0.0	0.698	bb

Compound name: 13C-PCB-123

Response Factor: 0.932868

RRF SD: 0.0173754, Relative SD: 1.86258

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev.	RRF	X = dropped
200601K1_1	100	1.82	NO	41.44	1.056	1.02e6	1.08e6	101	0.6	0.939	bd
200601K1_2	100	1.81	NO	41.44	1.056	1.11e6	1.18e6	101	0.5	0.938	bd
200601K1_3	100	1.84	NO	41.44	1.056	1.12e6	1.17e6	102	2.1	0.953	bd
200601K1_4	100	1.82	NO	41.48	1.056	1.07e6	1.15e6	99.3	-0.7	0.928	bd
200601K1_5	100	1.82	NO	41.48	1.056	1.18e6	1.31e6	96.7	-3.3	0.902	bd
200601K1_6	100	1.81	NO	41.48	1.056	1.23e6	1.31e6	101	0.7	0.939	bd

Compound name: 13C-PCB-118

Response Factor: 0.985592

RRF SD: 0.0134189, Relative SD: 1.3815

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev.	RRF	X = dropped
200601K1_1	100	1.64	NO	41.63	1.061	1.07e6	1.08e6	100	0.4	0.990	db
200601K1_2	100	1.62	NO	41.63	1.061	1.17e6	1.18e6	100	0.3	0.988	db



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**Compound name: 13C-PCB-118**

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_3	100	1.88	NO	41.85	1.081	1.16e6	1.17e6	100	0.3	0.989	db
200801K1_4	100	1.84	NO	41.85	1.081	1.12e6	1.15e6	98.8	-1.2	0.974	db
200801K1_5	100	1.83	NO	41.85	1.081	1.27e6	1.31e6	98.2	-1.8	0.987	db
200801K1_6	100	1.58	NO	41.85	1.081	1.32e6	1.31e6	102	2.0	1.01	db

**Compound name: 13C-PCB-114**

Response Factor: 1.54868

RRF SD: 0.0375936, Relative SD: 2.4308

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	1.58	NO	42.30	0.908	1.38e6	8.47e5	104	4.0	1.81	bb
200801K1_2	100	1.55	NO	42.30	0.908	1.45e6	9.25e5	102	1.8	1.57	bb
200801K1_3	100	1.56	NO	42.32	0.908	1.47e6	9.70e5	97.9	-2.1	1.51	bb
200801K1_4	100	1.58	NO	42.32	0.908	1.41e6	9.28e5	98.2	-1.8	1.52	bb
200801K1_5	100	1.59	NO	42.32	0.908	1.52e6	1.00e6	98.3	-1.7	1.52	bb
200801K1_6	100	1.58	NO	42.32	0.908	1.58e6	1.02e6	100	0.0	1.55	bb

**Compound name: 13C-PCB-105**

Response Factor: 1.57244

RRF SD: 0.0487805, Relative SD: 3.10222

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	1.58	NO	43.19	0.927	1.40e6	8.47e5	105	5.1	1.85	dd
200801K1_2	100	1.55	NO	43.19	0.927	1.47e6	9.25e5	101	1.1	1.59	bd
200801K1_3	100	1.59	NO	43.21	0.927	1.49e6	9.70e5	98.0	-2.0	1.54	bd
200801K1_4	100	1.59	NO	43.21	0.927	1.42e6	9.28e5	97.4	-2.8	1.53	bb
200801K1_5	100	1.57	NO	43.21	0.927	1.53e6	1.00e6	97.2	-2.8	1.53	bd
200801K1_6	100	1.57	NO	43.21	0.927	1.62e6	1.02e6	101	1.2	1.59	dd

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**Compound name: 13C-PCB-127**

Response Factor: 1.82478

RRF SD: 0.0481809, Relative SD: 2.96539

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	100	1.56	NO	43.55	0.935	1.45e6	8.47e5	105	5.2	1.71	db
200801K1_2	100	1.57	NO	43.55	0.935	1.51e6	9.25e5	100	0.3	1.83	db
200801K1_3	100	1.57	NO	43.55	0.935	1.59e6	9.70e5	101	0.8	1.84	db
200801K1_4	100	1.56	NO	43.55	0.934	1.47e6	9.28e5	97.5	-2.5	1.58	bb
200801K1_5	100	1.56	NO	43.55	0.934	1.58e6	1.00e6	97.0	-3.0	1.58	db
200801K1_6	100	1.56	NO	43.55	0.934	1.64e6	1.02e6	99.2	-0.8	1.81	db

**Compound name: 13C-PCB-126**

Response Factor: 1.56796

RRF SD: 0.0317856, Relative SD: 2.02719

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	100	1.55	NO	45.51	0.978	1.33e6	8.47e5	100	0.0	1.57	bb
200801K1_2	100	1.56	NO	45.51	0.978	1.49e6	9.25e5	103	2.8	1.81	bb
200801K1_3	100	1.59	NO	45.51	0.978	1.54e6	9.70e5	101	1.0	1.58	bb
200801K1_4	100	1.54	NO	45.52	0.978	1.45e6	9.28e5	100	0.1	1.57	bb
200801K1_5	100	1.57	NO	45.51	0.978	1.51e6	1.00e6	96.4	-3.8	1.51	bb
200801K1_6	100	1.56	NO	45.52	0.978	1.80e6	1.02e6	99.8	-0.2	1.56	bb

**Compound name: 13C-PCB-155**

Response Factor: 0.614596

RRF SD: 0.0119449, Relative SD: 1.94354

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	100	1.28	NO	36.98	0.942	6.57e5	1.08e6	98.8	-1.4	0.606	bb
200801K1_2	100	1.28	NO	36.98	0.942	7.35e5	1.18e6	101	1.4	0.823	bb

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Compound name: 13C-PCB-155

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	100	1.32	NO	36.99	0.943	7.36e5	1.17e6	102	2.3	0.629	bb
200601K1_4	100	1.28	NO	36.99	0.943	7.19e5	1.15e6	102	1.5	0.624	bb
200601K1_5	100	1.35	NO	36.99	0.943	7.68e5	1.31e6	97.8	-2.2	0.601	bb
200601K1_6	100	1.32	NO	36.99	0.943	7.92e5	1.31e6	98.3	-1.7	0.604	bb

Compound name: 13C-PCB-153

Response Factor: 1.36484

RRF SD: 0.0310875, Relative SD: 2.27774

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	100	1.26	NO	43.36	0.930	1.21e6	8.47e5	104	4.5	1.43	bb
200601K1_2	100	1.25	NO	43.36	0.930	1.26e6	9.25e5	100	0.1	1.37	bb
200601K1_3	100	1.24	NO	43.36	0.930	1.30e6	9.70e5	98.2	-1.8	1.34	bb
200601K1_4	100	1.28	NO	43.36	0.930	1.25e6	9.26e5	99.1	-0.9	1.35	bb
200601K1_5	100	1.25	NO	43.36	0.930	1.35e6	1.00e6	98.8	-1.2	1.35	bb
200601K1_6	100	1.28	NO	43.36	0.930	1.38e6	1.02e6	99.4	-0.6	1.36	bb

Compound name: 13C-PCB-141

Response Factor: 1.12787

RRF SD: 0.0175764, Relative SD: 1.55838

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	100	1.28	NO	44.12	0.947	9.74e5	8.47e5	102	1.9	1.15	bb
200601K1_2	100	1.28	NO	44.14	0.947	1.06e6	9.25e5	101	1.4	1.14	bb
200601K1_3	100	1.30	NO	44.14	0.947	1.10e6	9.70e5	100	0.4	1.13	bb
200601K1_4	100	1.28	NO	44.14	0.947	1.03e6	9.26e5	99.1	-0.9	1.12	bb
200601K1_5	100	1.26	NO	44.14	0.947	1.12e6	1.00e6	99.4	-0.6	1.12	bb
200601K1_6	100	1.26	NO	44.14	0.947	1.12e6	1.02e6	97.7	-2.3	1.10	bb

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Compound name: 13C-PCB-138  
 Response Factor: 1.18475  
 RRF SD: 0.015047, Relative SD: 1.27006  
 Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	Inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200801K1_1	100	1.29	NO	44.99	0.965	1.00e6	8.47e5	99.7	-0.3	1.18	bb
2	200801K1_2	100	1.29	NO	44.99	0.965	1.11e6	9.25e5	101	1.0	1.20	bb
3	200801K1_3	100	1.29	NO	45.01	0.966	1.16e6	9.70e5	101	0.6	1.19	bb
4	200801K1_4	100	1.29	NO	45.01	0.965	1.07e6	9.28e5	97.9	-2.1	1.16	bb
5	200801K1_5	100	1.28	NO	45.01	0.965	1.18e6	1.00e6	99.5	-0.5	1.18	bb
6	200801K1_6	100	1.27	NO	45.01	0.985	1.22e6	1.02e6	101	1.3	1.20	bb

Compound name: 13C-PCB-159  
 Response Factor: 1.43942  
 RRF SD: 0.0195746, Relative SD: 1.3599  
 Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	Inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200801K1_1	100	1.28	NO	46.32	0.994	1.22e6	8.47e5	99.7	-0.3	1.44	bb
2	200801K1_2	100	1.28	NO	46.32	0.994	1.34e6	9.25e5	100	0.4	1.44	bd
3	200801K1_3	100	1.27	NO	46.32	0.994	1.38e6	9.70e5	99.0	-1.0	1.43	bd
4	200801K1_4	100	1.28	NO	46.34	0.994	1.33e6	9.28e5	99.7	-0.3	1.43	bd
5	200801K1_5	100	1.28	NO	46.34	0.994	1.42e6	1.00e6	98.7	-1.3	1.42	bd
6	200801K1_6	100	1.28	NO	46.34	0.994	1.51e6	1.02e6	103	2.5	1.48	bd

Compound name: 13C-PCB-167  
 Response Factor: 1.44018  
 RRF SD: 0.0216462, Relative SD: 1.50303  
 Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc.	RA	Inj	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200801K1_1	100	1.28	NO	47.02	1.009	1.22e6	8.47e5	99.8	-0.4	1.43	bb
2	200801K1_2	100	1.28	NO	47.02	1.009	1.33e6	9.25e5	99.8	-0.4	1.43	bb

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Compound name: 13C-PCB-167

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_3	100	1.27	NO	47.04	1.009	1.39e6	9.70e5	99.8	-0.2	1.44	bb
200601K1_4	100	1.27	NO	47.04	1.009	1.36e6	9.26e5	102	1.9	1.47	bb
200601K1_5	100	1.25	NO	47.04	1.009	1.41e6	1.00e6	97.7	-2.3	1.41	bb
200601K1_6	100	1.26	NO	47.04	1.009	1.49e6	1.02e6	101	1.5	1.46	bb

Compound name: 13C-PCB-156

Response Factor: 1.39893

RRF SD: 0.0275437, Relative SD: 1.97173

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	100	1.28	NO	48.37	1.038	1.18e6	8.47e5	99.8	-0.2	1.39	bb
200601K1_2	100	1.27	NO	48.37	1.038	1.26e6	9.25e5	97.8	-2.2	1.37	bb
200601K1_3	100	1.28	NO	48.37	1.038	1.35e6	9.70e5	99.5	-0.5	1.39	bb
200601K1_4	100	1.26	NO	48.37	1.037	1.31e6	9.26e5	102	1.7	1.42	bb
200601K1_5	100	1.26	NO	48.37	1.037	1.37e6	1.00e6	98.3	-1.7	1.37	bb
200601K1_6	100	1.27	NO	48.37	1.037	1.47e6	1.02e6	103	2.9	1.44	bb

Compound name: 13C-PCB-157

Response Factor: 1.39899

RRF SD: 0.0376485, Relative SD: 2.69497

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200601K1_1	100	1.27	NO	48.63	1.043	1.19e6	8.47e5	100	0.2	1.40	bb
200601K1_2	100	1.28	NO	48.63	1.043	1.24e6	9.25e5	95.9	-4.1	1.34	bb
200601K1_3	100	1.28	NO	48.65	1.044	1.36e6	9.70e5	100	0.3	1.40	bb
200601K1_4	100	1.26	NO	48.65	1.043	1.31e6	9.26e5	102	1.6	1.42	bb
200601K1_5	100	1.27	NO	48.65	1.043	1.37e6	1.00e6	98.3	-1.7	1.37	bb
200601K1_6	100	1.26	NO	48.65	1.043	1.46e6	1.02e6	104	3.7	1.45	bb

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Compound name: 13C-PCB-189  
 Response Factor: 1.33116  
 RRF SD: 0.042515, Relative SD: 3.19384  
 Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Ext. Conc.	RA	Qty	RT	RRF	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
1	200801K1_1	100	1.26	NO	50.90	1.092	1.12e6	8.47e5	99.2	-0.8	1.32	bb
2	200801K1_2	100	1.26	NO	50.90	1.092	1.19e6	9.25e5	96.3	-3.7	1.28	bb
3	200801K1_3	100	1.26	NO	50.90	1.092	1.33e6	9.70e5	103	3.1	1.37	bb
4	200801K1_4	100	1.26	NO	50.90	1.092	1.22e6	9.29e5	99.1	-0.9	1.32	bb
5	200801K1_5	100	1.25	NO	50.90	1.092	1.30e6	1.00e6	97.7	-2.3	1.30	bb
6	200801K1_6	100	1.27	NO	50.92	1.092	1.42e6	1.02e6	105	4.8	1.39	bb

Compound name: 13C-PCB-188  
 Response Factor: 1.40951  
 RRF SD: 0.0117086, Relative SD: 0.83069  
 Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Ext. Conc.	RA	Qty	RT	RRF	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
1	200801K1_1	100	0.45	NO	42.99	0.926	9.28e5	6.80e5	99.8	-0.2	1.41	bb
2	200801K1_2	100	0.45	NO	42.99	0.926	1.02e6	7.21e5	100	-0.0	1.41	bb
3	200801K1_3	100	0.46	NO	42.99	0.926	1.03e6	7.29e5	101	0.7	1.42	bb
4	200801K1_4	100	0.46	NO	43.00	0.926	1.01e6	7.30e5	96.5	-1.5	1.39	bb
5	200801K1_5	100	0.46	NO	43.00	0.926	1.13e6	8.04e5	100	0.1	1.41	bb
6	200801K1_6	100	0.45	NO	43.00	0.926	1.18e6	8.32e5	101	0.9	1.42	bb

Compound name: 13C-PCB-180  
 Response Factor: 0.928881  
 RRF SD: 0.0198492, Relative SD: 2.11536  
 Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Ext. Conc.	RA	Qty	RT	RRF	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
1	200801K1_1	100	0.46	NO	49.69	1.070	6.18e5	6.80e5	101	0.5	0.934	bd
2	200801K1_2	100	0.44	NO	49.69	1.070	6.54e5	7.21e5	97.6	-2.4	0.907	bd

Dataset: U:\VG11.PRO\Results\200801K1\200801K1-CRVB.qld

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Compound name: 13C-PCB-180

Name	Std. Conc.	RA	Hy	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_3	100	0.46	NO	49.69	1.070	7.01e5	7.29e5	103	3.4	0.961	bd
200801K1_4	100	0.46	NO	49.69	1.070	6.87e5	7.30e5	98.4	-1.6	0.914	bb
200801K1_5	100	0.45	NO	49.69	1.070	7.40e5	8.04e5	99.1	-0.9	0.920	bb
200801K1_6	100	0.45	NO	49.69	1.070	7.81e5	8.32e5	101	1.1	0.939	bb

Compound name: 13C-PCB-170

Response Factor: 0.794323

RRF SD: 0.024833, Relative SD: 3.12632

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Hy	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	0.45	NO	51.36	1.106	5.21e5	6.60e5	99.4	-0.6	0.789	bb
200801K1_2	100	0.44	NO	51.36	1.106	5.75e5	7.21e5	100	0.4	0.798	bb
200801K1_3	100	0.45	NO	51.36	1.106	6.11e5	7.29e5	105	5.4	0.837	bb
200801K1_4	100	0.46	NO	51.36	1.106	5.78e5	7.30e5	99.8	-0.2	0.793	bb
200801K1_5	100	0.46	NO	51.36	1.106	6.11e5	8.04e5	95.7	-4.3	0.760	bb
200801K1_6	100	0.46	NO	51.36	1.106	6.57e5	8.32e5	99.3	-0.7	0.789	bb

Compound name: 13C-PCB-189

Response Factor: 1.04459

RRF SD: 0.0359944, Relative SD: 3.44577

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Hy	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	0.46	NO	53.08	1.143	6.87e5	6.60e5	99.6	-0.4	1.04	bb
200801K1_2	100	0.46	NO	53.08	1.143	7.42e5	7.21e5	98.5	-1.5	1.03	bb
200801K1_3	100	0.46	NO	53.08	1.143	8.11e5	7.29e5	108	6.4	1.11	bb
200801K1_4	100	0.46	NO	53.08	1.143	7.81e5	7.30e5	99.8	-0.2	1.04	bb
200801K1_5	100	0.46	NO	53.08	1.143	8.07e5	8.04e5	98.1	-3.9	1.00	bb
200801K1_6	100	0.47	NO	53.08	1.143	8.85e5	8.32e5	99.6	-0.4	1.04	bb

Dataset: U:\VG11.PRO\Results\200601K1\200601K1-CRVB.qld

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Compound name: 13C-PCB-202

Response Factor: 1.03576

RRF SD: 0.0193089, Relative SD: 1.86423

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Hy	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	100	0.94	NO	48.57	1.048	6.72e5	6.60e5	98.4	-1.6	1.02	bb
200601K1_2	100	0.93	NO	48.59	1.048	7.55e5	7.21e5	101	1.1	1.05	bb
200601K1_3	100	0.93	NO	48.59	1.048	7.66e5	7.29e5	101	1.4	1.05	bb
200601K1_4	100	0.91	NO	48.59	1.048	7.74e5	7.30e5	102	2.4	1.06	bb
200601K1_5	100	0.93	NO	48.59	1.048	8.21e5	8.04e5	98.5	-1.5	1.02	bb
200601K1_6	100	0.91	NO	48.59	1.048	8.48e5	8.32e5	98.2	-1.6	1.02	bb

Compound name: 13C-PCB-184

Response Factor: 0.768019

RRF SD: 0.0144259, Relative SD: 1.87833

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Hy	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	100	0.88	NO	54.70	0.995	6.54e5	6.59e5	99.2	-0.8	0.762	bb
200601K1_2	100	0.90	NO	54.70	0.995	6.72e5	6.91e5	98.2	-1.8	0.754	bb
200601K1_3	100	0.89	NO	54.70	0.995	7.55e5	9.85e5	99.9	-0.1	0.767	bb
200601K1_4	100	0.89	NO	54.70	0.995	6.85e5	6.96e5	99.3	-0.7	0.763	bb
200601K1_5	100	0.90	NO	54.70	0.995	7.19e5	9.37e5	99.9	-0.1	0.787	bb
200601K1_6	100	0.90	NO	54.70	0.995	8.07e5	1.01e6	104	3.6	0.796	bb

Compound name: 13C-PCB-208

Response Factor: 0.990772

RRF SD: 0.01981, Relative SD: 1.97926

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Hy	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	100	0.79	NO	53.94	0.981	8.27e5	8.59e5	97.1	-2.9	0.962	bb
200601K1_2	100	0.77	NO	53.94	0.981	8.89e5	8.91e5	101	0.7	0.998	bb



Dataset: U:\VG11.PROVResults\200601K1\200601K1-CRVB.qld

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Compound name: 13C-PCB-208

Name	Std Conc	RA	Hy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_3	100	0.79	NO	53.94	0.981	9.56e5	9.85e5	96.0	-2.0	0.971	bb
200601K1_4	100	0.79	NO	53.94	0.981	9.09e5	8.98e5	102	2.1	1.01	bb
200601K1_5	100	0.78	NO	53.94	0.981	9.40e5	9.37e5	101	1.2	1.00	bb
200601K1_6	100	0.78	NO	53.94	0.981	1.01e6	1.01e6	101	0.9	0.999	bb

Compound name: 13C-PCB-206

Response Factor: 0.552205

RRF SD: 0.00935022, Relative SD: 1.69325

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Hy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	100	0.78	NO	56.24	1.023	4.83e5	8.59e5	102	1.8	0.562	dd
200601K1_2	100	0.81	NO	56.24	1.023	4.90e5	8.91e5	99.5	-0.5	0.550	dd
200601K1_3	100	0.78	NO	56.24	1.023	5.49e5	9.85e5	101	1.0	0.558	bb
200601K1_4	100	0.80	NO	56.24	1.023	5.03e5	8.98e5	101	1.4	0.560	dd
200601K1_5	100	0.78	NO	56.24	1.023	5.04e5	9.37e5	97.4	-2.8	0.538	bd
200601K1_6	100	0.78	NO	56.24	1.023	5.54e5	1.01e6	99.0	-1.0	0.547	db

Compound name: 13C-PCB-209

Response Factor: 0.396384

RRF SD: 0.0196712, Relative SD: 4.96267

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	Hy	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X = dropped
200601K1_1	100	1.23	NO	57.48	1.046	3.65e5	8.59e5	107	7.2	0.425	bb
200601K1_2	100	1.16	NO	57.48	1.046	3.67e5	8.91e5	104	3.8	0.411	bb
200601K1_3	100	1.18	NO	57.48	1.046	3.88e5	9.85e5	99.5	-0.5	0.394	bb
200601K1_4	100	1.18	NO	57.48	1.046	3.55e5	8.98e5	99.8	-0.2	0.396	bb
200601K1_5	100	1.19	NO	57.48	1.046	3.47e5	9.37e5	93.4	-6.6	0.370	bb
200601K1_6	100	1.19	NO	57.48	1.046	3.87e5	1.01e6	98.3	-3.7	0.382	bb

Dataset: U:\VG11.PRO\Results\200601K1\200601K1-CRVB.qld

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**Compound name: 13C-PCB-15**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 213 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRF	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	100	1.56	NO	25.52	0.000	2.62e6	2.62e6	100	0.0	1.00	bb
200601K1_2	100	1.57	NO	25.51	0.000	2.80e6	2.80e6	100	0.0	1.00	bb
200601K1_3	100	1.58	NO	25.53	0.000	2.85e6	2.85e6	100	0.0	1.00	bb
200601K1_4	100	1.56	NO	25.53	0.000	2.67e6	2.67e6	100	0.0	1.00	bb
200601K1_5	100	1.57	NO	25.53	0.000	2.81e6	2.81e6	100	0.0	1.00	bb
200601K1_6	100	1.56	NO	25.53	0.000	2.77e6	2.77e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-31**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 214 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRF	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	100	1.03	NO	28.66	0.000	2.08e6	2.08e6	100	0.0	1.00	bd
200601K1_2	100	1.04	NO	28.66	0.000	2.43e6	2.43e6	100	0.0	1.00	bd
200601K1_3	100	1.04	NO	28.66	0.000	2.26e6	2.26e6	100	0.0	1.00	bd
200601K1_4	100	1.05	NO	28.66	0.000	2.13e6	2.13e6	100	0.0	1.00	bd
200601K1_5	100	1.03	NO	28.66	0.000	2.24e6	2.24e6	100	0.0	1.00	bd
200601K1_6	100	1.04	NO	28.66	0.000	2.18e6	2.18e6	100	0.0	1.00	bd

**Compound name: 13C-PCB-60**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Int.	RT	RRF	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200601K1_1	100	0.78	NO	36.66	0.000	1.67e6	1.67e6	100	0.0	1.00	bb
200601K1_2	100	0.80	NO	36.66	0.000	1.82e6	1.82e6	100	0.0	1.00	bb

Dataset: U:\VG11.PRO\Results\200801K1\200801K1-CRVB.qld

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Compound name: 13C-PCB-80

Name	Std Conc	RA	ry	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X	dropped
200801K1_3	100	0.78	NO	36.68	0.000	1.81e6	1.81e6	100	0.0	1.00		bb
200801K1_4	100	0.79	NO	36.68	0.000	1.74e6	1.74e6	100	0.0	1.00		bb
200801K1_5	100	0.78	NO	36.70	0.000	1.89e6	1.89e6	100	0.0	1.00		bb
200801K1_6	100	0.78	NO	36.70	0.000	1.92e6	1.92e6	100	0.0	1.00		bb

Compound name: 13C-PCB-111

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 216 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	ry	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X	dropped
200801K1_1	100	1.62	NO	39.25	0.000	1.08e6	1.08e6	100	0.0	1.00		bb
200801K1_2	100	1.62	NO	39.25	0.000	1.18e6	1.18e6	100	0.0	1.00		bb
200801K1_3	100	1.62	NO	39.25	0.000	1.17e6	1.17e6	100	0.0	1.00		db
200801K1_4	100	1.60	NO	39.25	0.000	1.15e6	1.15e6	100	0.0	1.00		bb
200801K1_5	100	1.62	NO	39.25	0.000	1.31e6	1.31e6	100	0.0	1.00		bb
200801K1_6	100	1.63	NO	39.25	0.000	1.31e6	1.31e6	100	0.0	1.00		bb

Compound name: 13C-PCB-128

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	ry	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X	dropped
200801K1_1	100	1.28	NO	46.60	0.000	8.47e5	8.47e5	100	0.0	1.00		bb
200801K1_2	100	1.27	NO	46.60	0.000	9.25e5	9.25e5	100	0.0	1.00		db
200801K1_3	100	1.25	NO	46.60	0.000	9.70e5	9.70e5	100	0.0	1.00		db
200801K1_4	100	1.26	NO	46.62	0.000	9.26e5	9.26e5	100	0.0	1.00		db
200801K1_5	100	1.26	NO	46.62	0.000	1.00e6	1.00e6	100	0.0	1.00		db
200801K1_6	100	1.27	NO	46.62	0.000	1.02e6	1.02e6	100	0.0	1.00		db

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**Compound name: 13C-PCB-182**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 218 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	0.46	NO	46.43	0.000	6.60e5	6.60e5	100	0.0	1.00	bb
200801K1_2	100	0.44	NO	46.43	0.000	7.21e5	7.21e5	100	0.0	1.00	bb
200801K1_3	100	0.46	NO	46.43	0.000	7.29e5	7.29e5	100	0.0	1.00	bb
200801K1_4	100	0.45	NO	46.43	0.000	7.30e5	7.30e5	100	0.0	1.00	bb
200801K1_5	100	0.45	NO	46.43	0.000	8.04e5	8.04e5	100	0.0	1.00	bb
200801K1_6	100	0.45	NO	46.43	0.000	8.32e5	8.32e5	100	0.0	1.00	bb

**Compound name: 13C-PCB-205**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 219 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	0.90	NO	54.98	0.000	8.59e5	8.59e5	100	0.0	1.00	bb
200801K1_2	100	0.89	NO	54.98	0.000	8.91e5	8.91e5	100	0.0	1.00	bb
200801K1_3	100	0.90	NO	54.98	0.000	9.85e5	9.85e5	100	0.0	1.00	bb
200801K1_4	100	0.90	NO	54.98	0.000	8.98e5	8.98e5	100	0.0	1.00	bb
200801K1_5	100	0.90	NO	54.98	0.000	9.37e5	9.37e5	100	0.0	1.00	bb
200801K1_6	100	0.92	NO	54.98	0.000	1.01e6	1.01e6	100	0.0	1.00	bb

**Compound name: 13C-PCB-79**

Response Factor: 1.06893

RRF SD: 0.0167842, Relative SD: 1.57019

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std. Conc.	RA	Qty	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
200801K1_1	100	0.79	NO	37.78	1.030	1.83e6	1.87e6	102	2.2	1.09	bb
200801K1_2	100	0.80	NO	37.78	1.030	1.92e6	1.82e6	96.7	-1.3	1.06	bb

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Compound name: 13C-PCB-79

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200601K1_3	100	0.79	NO	37.78	1.030	1.93e6	1.81e6	99.5	-0.5	1.06	bb
200601K1_4	100	0.77	NO	37.78	1.030	1.87e6	1.74e6	101	0.5	1.07	bb
200601K1_5	100	0.79	NO	37.78	1.029	1.98e6	1.89e6	98.0	-2.0	1.05	bb
200601K1_6	100	0.79	NO	37.78	1.029	2.08e6	1.92e6	101	1.0	1.08	bb

Compound name: 13C-PCB-178

Response Factor: 0.768471

RRF SD: 0.0163291, Relative SD: 2.13043

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200601K1_1	100	0.46	NO	45.87	0.988	8.59e5	8.47e5	101	1.5	0.778	bb
200601K1_2	100	0.45	NO	45.87	0.988	7.18e5	9.25e5	101	1.0	0.774	bb
200601K1_3	100	0.44	NO	45.88	0.988	7.23e5	9.70e5	97.2	-2.8	0.745	bb
200601K1_4	100	0.46	NO	45.88	0.988	7.30e5	9.26e5	103	2.9	0.788	bb
200601K1_5	100	0.44	NO	45.88	0.988	7.54e5	1.00e6	98.3	-1.7	0.754	bb
200601K1_6	100	0.45	NO	45.88	0.988	7.75e5	1.02e6	99.1	-0.9	0.759	bb

Compound name: 13C-PCB-79

Response Factor: 1.06893

RRF SD: 0.0167842, Relative SD: 1.57019

Response type: Internal Std ( Ref 215 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Std Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc	%Dev	RRF	X=dropped
200601K1_1	100	0.79	NO	37.78	0.988	1.83e6	1.65e6	102	2.5	1.11	bb
200601K1_2	100	0.80	NO	37.78	0.988	1.92e6	1.76e6	101	0.8	1.09	bb
200601K1_3	100	0.79	NO	37.78	0.988	1.93e6	1.80e6	99.0	-1.0	1.07	bb
200601K1_4	100	0.77	NO	37.78	0.988	1.87e6	1.70e6	101	1.4	1.10	bb
200601K1_5	100	0.79	NO	37.78	0.988	1.98e6	1.88e6	97.4	-2.6	1.05	bb
200601K1_6	100	0.79	NO	37.78	0.988	2.08e6	1.94e6	99.0	-1.0	1.07	bb

Dataset: U:\VG11.PROVResults\200801K1\200801K1-CRVB.qld

Last Altered: Tuesday, June 02, 2020 10:21:37 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 11:15:31 Pacific Daylight Time

Compound name: 13C-PCB-178

Response Factor: 0.786471

RRF SD: 0.0163291, Relative SD: 2.13043

Response type: Internal Std ( Ref 217 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

Name	Int. Conc.	RA	Int.	RT	RRT	Resp.	IS Resp.	Conc.	%Dev.	RRF	X = dropped
200801K1_1	100	0.48	NO	45.87	0.923	6.59e5	6.16e5	102	1.8	1.07	bb
200801K1_2	100	0.45	NO	45.87	0.923	7.16e5	6.54e5	104	4.2	1.10	bb
200801K1_3	100	0.44	NO	45.88	0.923	7.23e5	7.01e5	98.2	-1.8	1.03	bb
200801K1_4	100	0.48	NO	45.88	0.923	7.30e5	6.67e5	104	4.2	1.10	bb
200801K1_5	100	0.44	NO	45.88	0.923	7.55e5	7.40e5	97.2	-2.8	1.02	bb
200801K1_6	100	0.45	NO	45.88	0.923	7.75e5	7.81e5	94.4	-5.8	0.992	bb

Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 10:33:52 Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_6-1-20.mdb 02 Jun 2020 10:36:07

Calibration: U:\VG11.PRO\CurveDB\cb1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

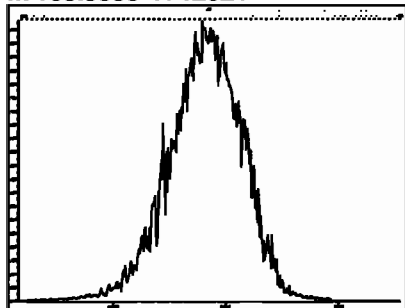
Compound name: PCB-1

Name	ID	Acq Date	Acq Time
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200601K1_3	ST200601K1-3 PCB 209 CS2 19G2808	01-Jun-20	14:19:00
200601K1_4	ST200601K1-4 PCB 209 CS3 19G2809	01-Jun-20	15:19:46
200601K1_5	ST200601K1-5 PCB 209 CS4 19G2810	01-Jun-20	16:20:32
200601K1_8	ST200601K1-6 PCB 209 CS5 19G2811	01-Jun-20	17:21:13
200601K1_7	SS200601K1-1 PCB 209 SS 19G2812	01-Jun-20	18:21:53
200601K1_8	B0E0091-BS2 OPR 1	01-Jun-20	19:22:39
200601K1_9	B0D0045-BS4 OPR 1	01-Jun-20	20:23:05
200601K1_10	B0D0029-BS2 OPR 10	01-Jun-20	21:22:15
200601K1_11	B0D0029-BS3 OPR 10	01-Jun-20	22:24:28
200601K1_12	B0D0028-BS2 OPR 10	01-Jun-20	23:24:52
200601K1_13	B0D0028-BS3 OPR 10	02-Jun-20	00:24:00
200601K1_14	B0E0089-BS1 OPR 1	02-Jun-20	01:28:11

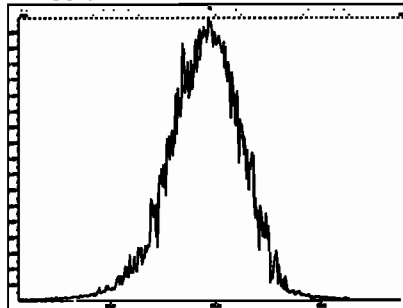
File: Experiment: PCB\_ZB1.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, June 01, 2020 12:03:14 Pacific Daylight Time

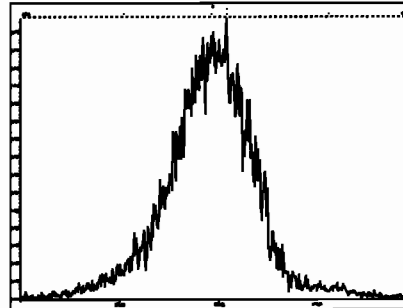
M 168.9888 R 12021



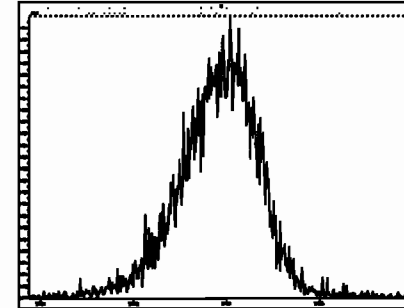
M 180.9888 R 11414



M 192.9888 R 10041



M 204.9888 R 12498

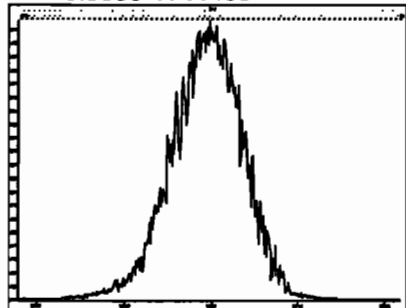




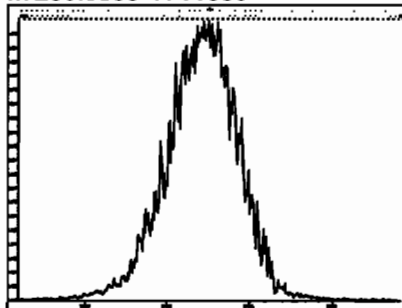
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Printed: Monday, June 01, 2020 12:03:55 Pacific Daylight Time

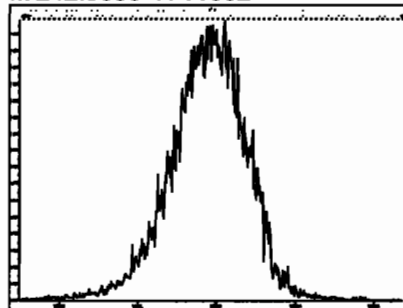
M 218.9856 R 11468



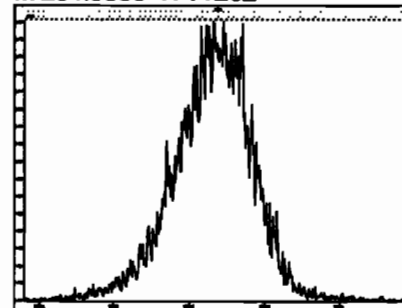
M 230.9856 R 11680



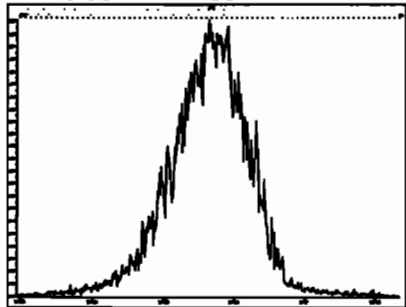
M 242.9856 R 11682



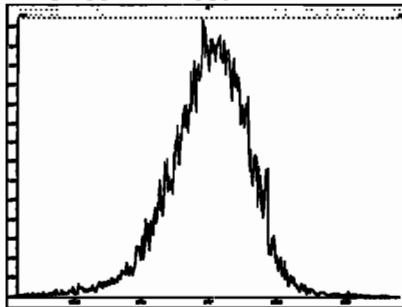
M 254.9856 R 11262



M 268.9824 R 11361

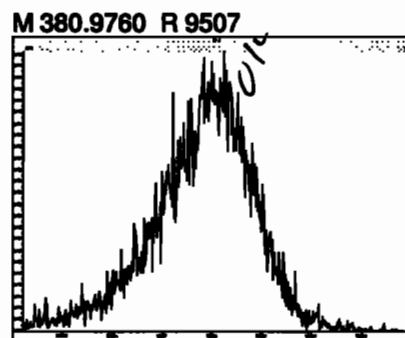
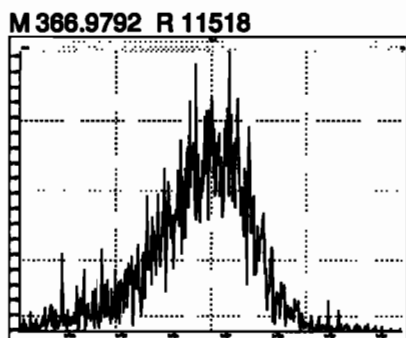
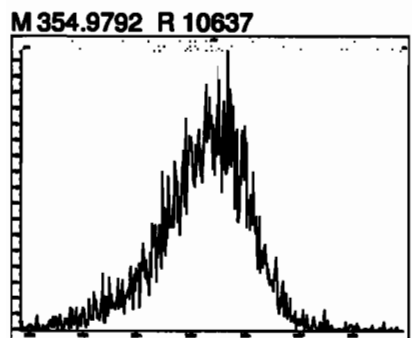
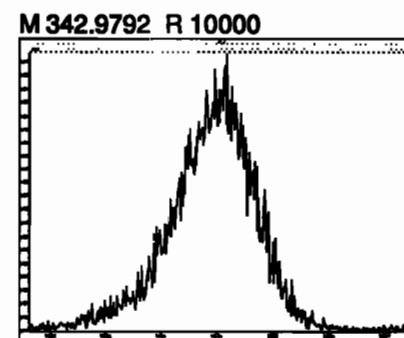
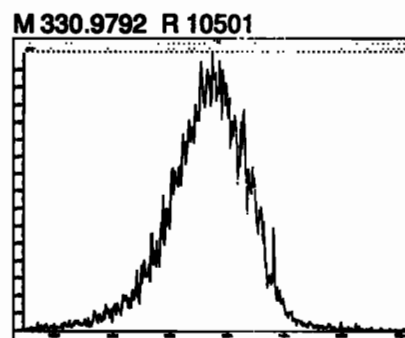
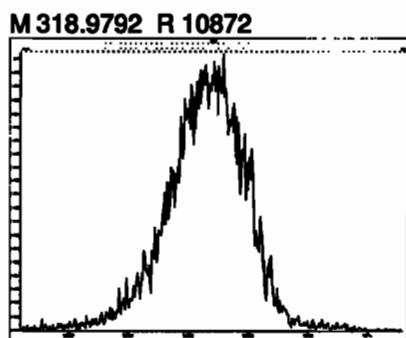
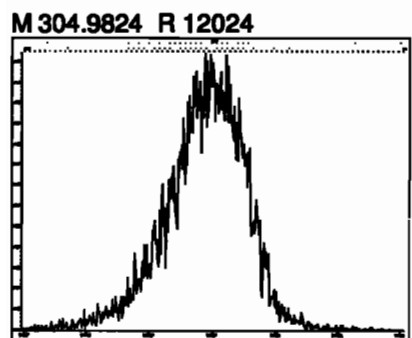
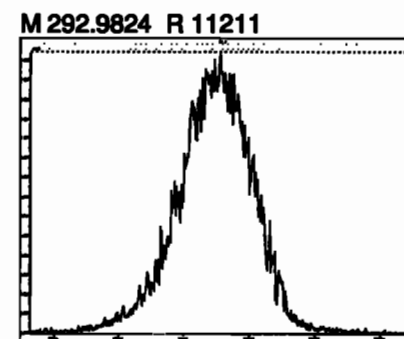
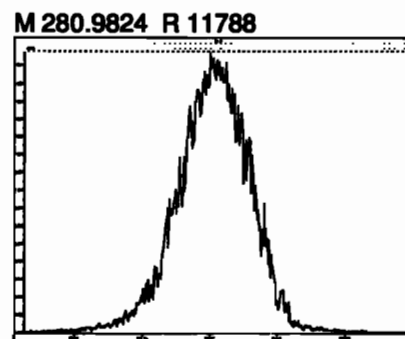
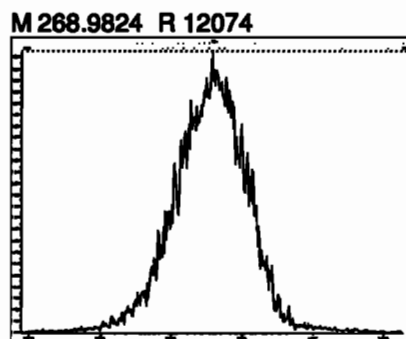
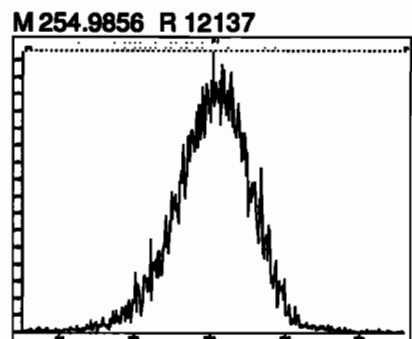


M 280.9824 R 10634



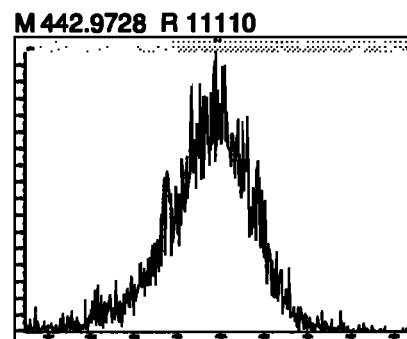
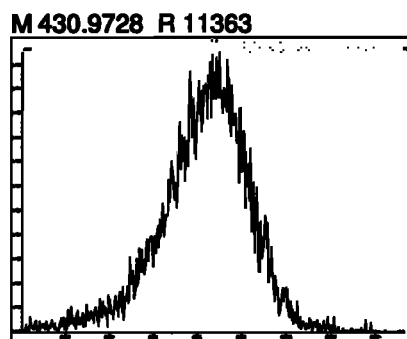
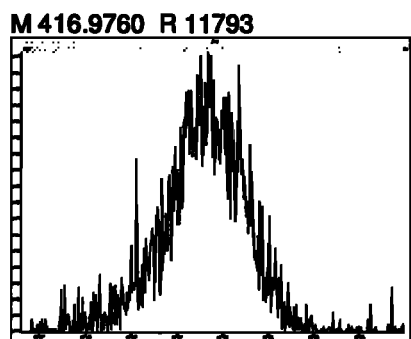
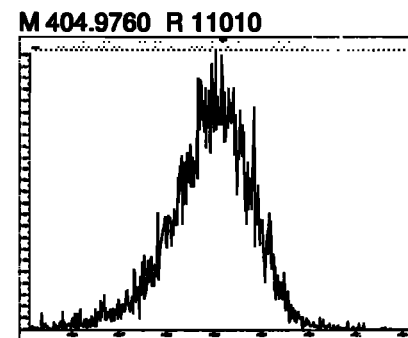
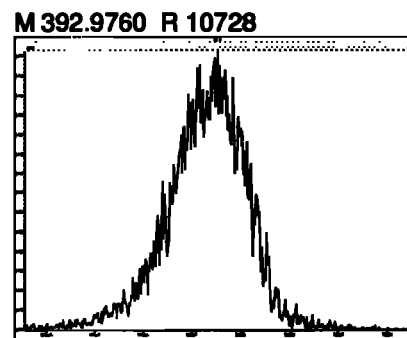
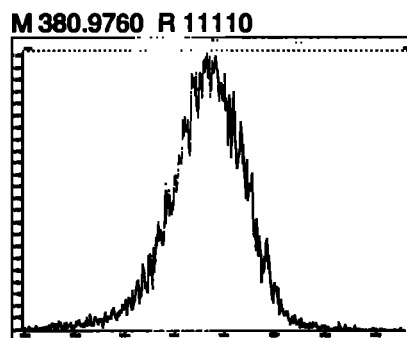
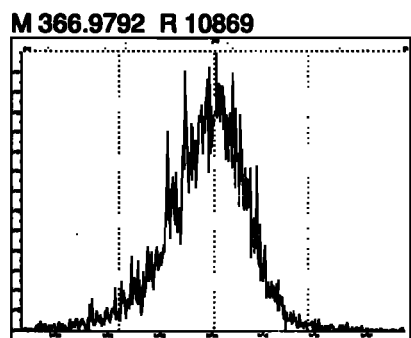
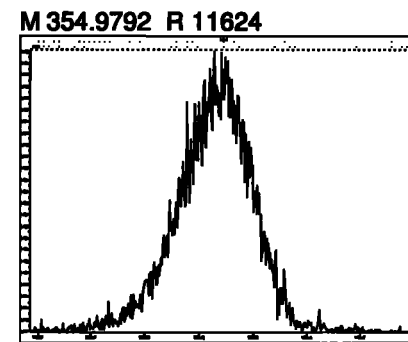
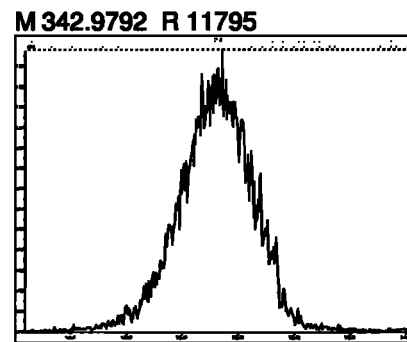
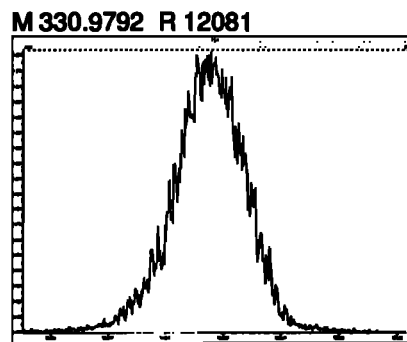
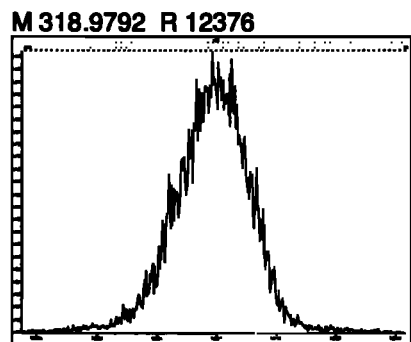
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Printed: Monday, June 01, 2020 12:06:35 Pacific Daylight Time



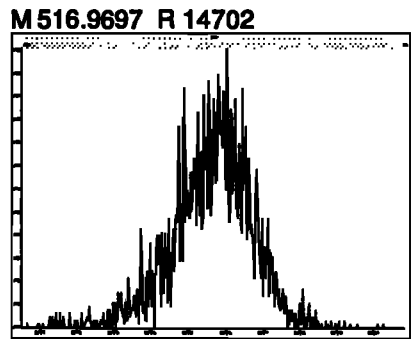
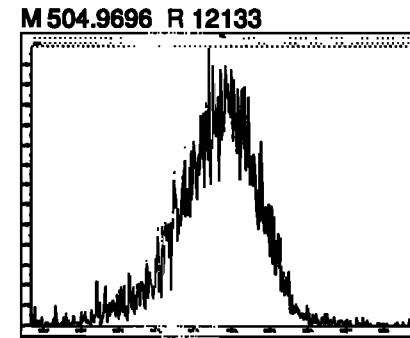
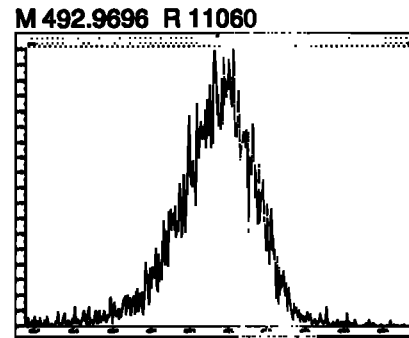
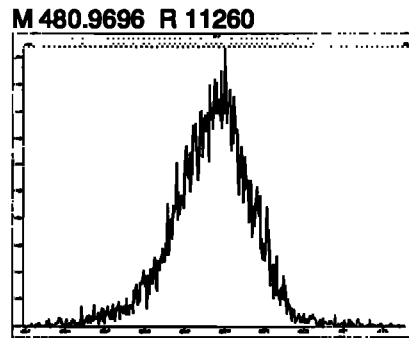
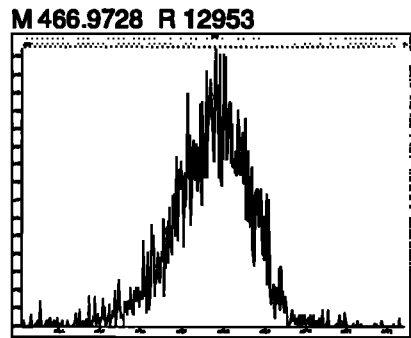
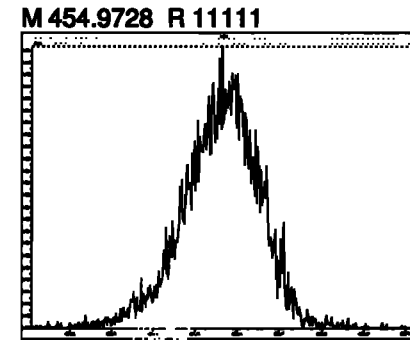
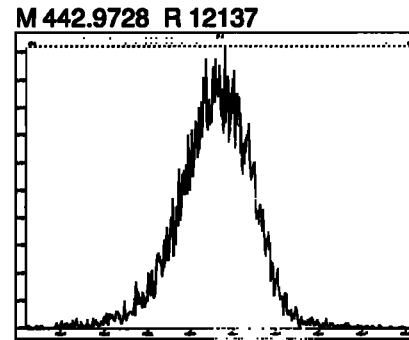
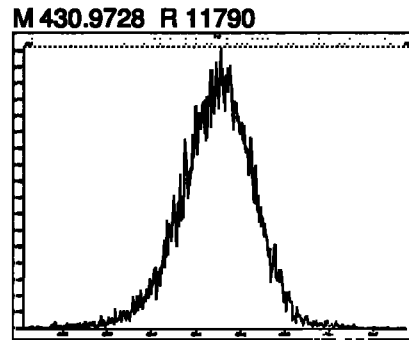
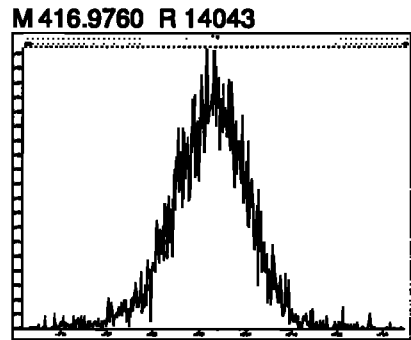
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Printed: Monday, June 01, 2020 12:12:00 Pacific Daylight Time



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Method: U:\VG11.PRO\MethDB\PCB-209\_ZB1\_6-1-20.mdb 02 Jun 2020 10:38:07

Calibration: U:\VG11.PRO\CurveDB\db1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

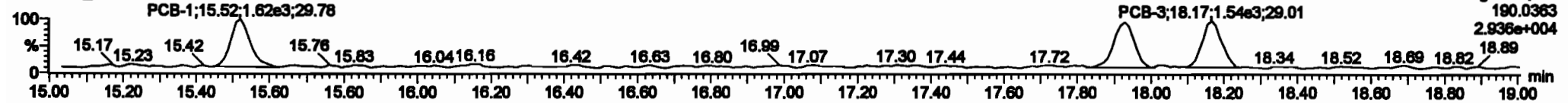
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PCB-1

200601K1\_1



200601K1\_1

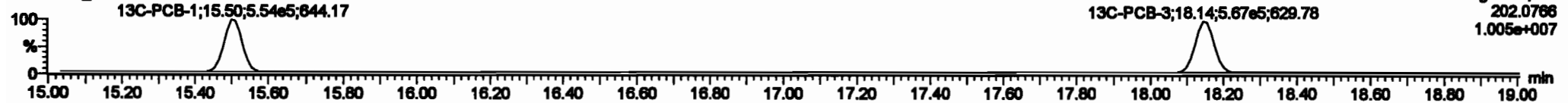


13C-PCB-1

200601K1\_1

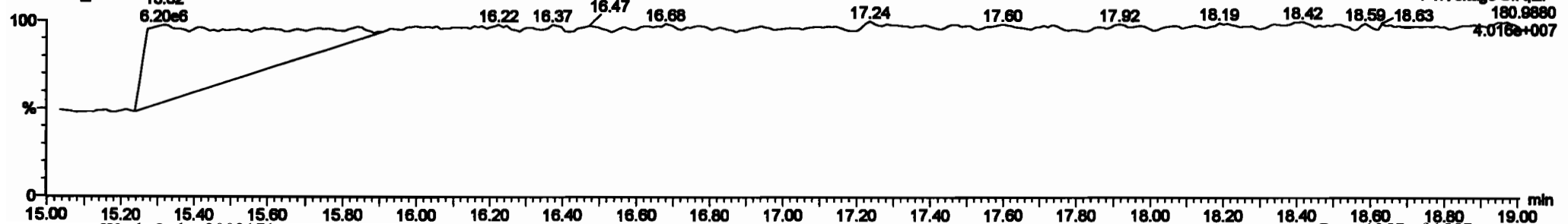


200601K1\_1



PFK1

200601K1\_1



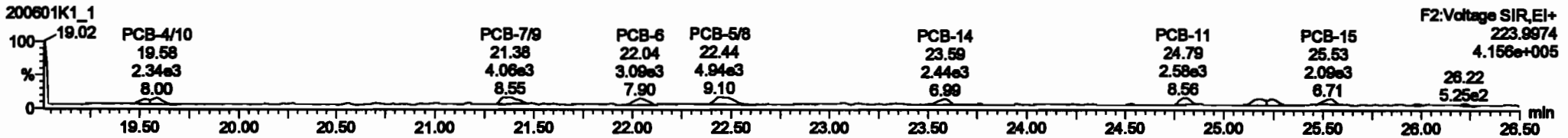
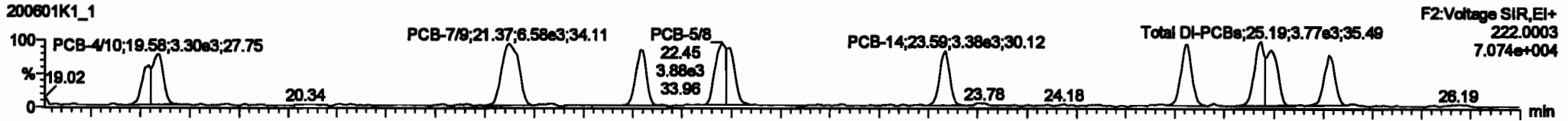


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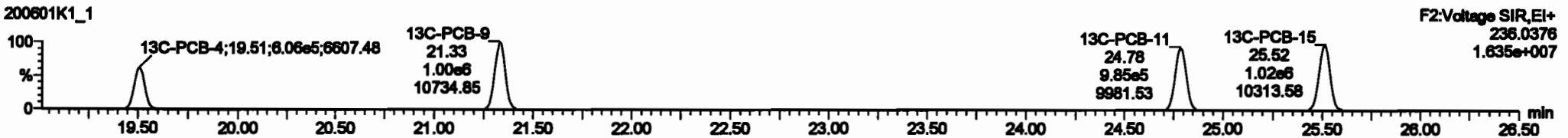
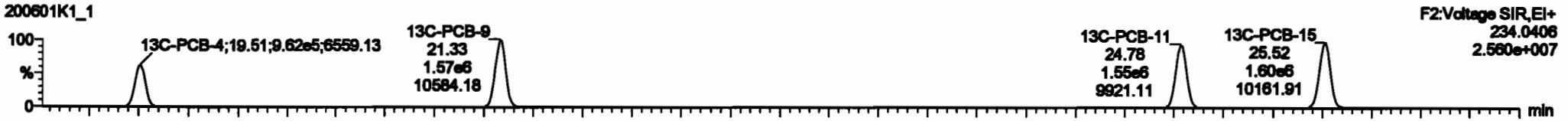
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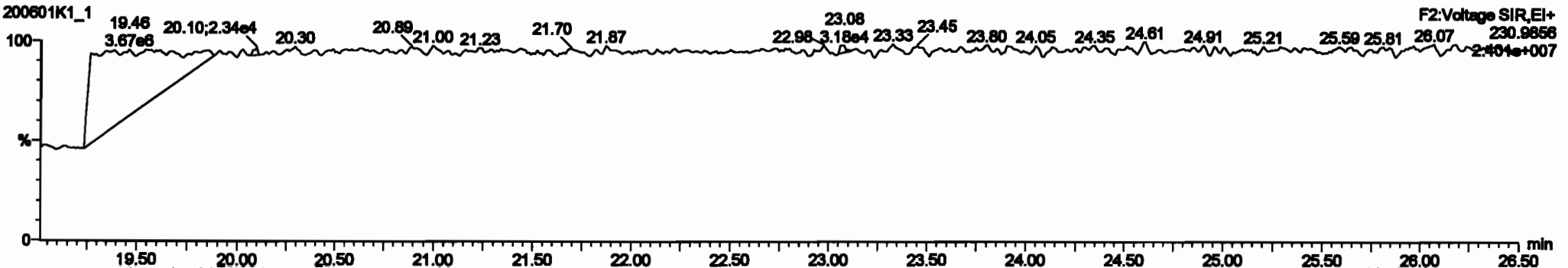
**PCB-4/10**



**13C-PCB-4**

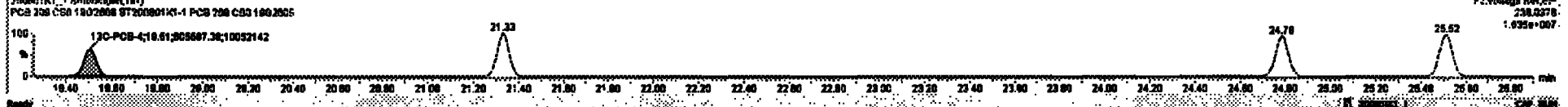
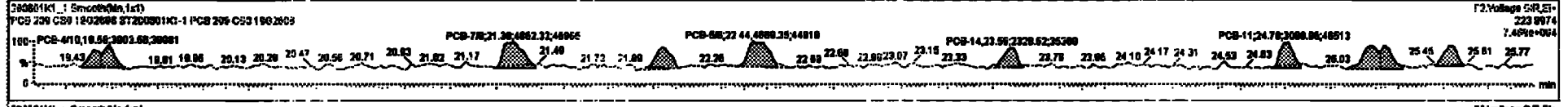
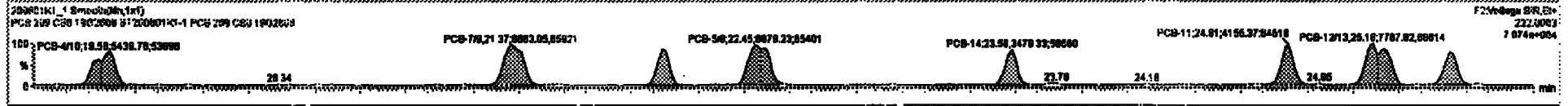


**PFK2a**



PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB
216	13C-PCB-88	1.82e6	0.78	NO	1.0000	1.000	38.88	38.88	1.800	0.000	NO	100.0	100	0.0808				
216	13C-PCB-111	1.82e6	1.82	NO	1.0000	1.000	38.25	38.25	1.800	0.000	NO	100.0	100	0.0915				
217	13C-PCB-128	8.47e6	1.28	NO	1.0000	1.000	48.80	48.80	1.800	0.000	NO	100.0	100	0.0884				
218	13C-PCB-162	8.89e6	0.48	NO	1.0000	1.000	48.43	48.43	0.000	0.000	NO	100.0	100	0.0818				
219	13C-PCB-208	8.89e6	0.80	NO	1.0000	1.000	64.88	64.88	1.000	0.000	NO	100.0	100	0.148				
220	13C-PCB-78	1.82e6	0.78	NO	1.0000	1.000	37.78	37.78	1.000	1.000	NO	102.2	102	0.0887				
221	13C-PCB-178	8.89e6	0.48	NO	0.7088	1.000	46.88	46.87	0.888	0.888	NO	101.8	101	0.0828				
222	13C-PCB-78	1.82e6	0.78	NO	1.0021	1.000	37.78	37.78	0.888	0.888	NO	102.8	102	0.0888				
223	13C-PCB-178	8.89e6	0.48	NO	1.0000	1.000	46.87	46.87	0.823	0.823	NO	101.8	102	0.0882				
224	Total Micro-PCBs				1.8887	1.000	0.00				NO	1.838		0.0348	0.8830			
225	Total Function TM-PCBs				1.8887	1.000	0.00				NO	1.838		0.0348	0.8830			

PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB	PCB
4	PCB-478	18.88	18.88	5.44e3	1.88e3	1.800	1.28	NO	0.47700	0.47744								
5	PCB-78	21.28	21.27	8.88e3	4.88e3	1.800	1.37	NO	0.48700	0.48882								
6	PCB-9	22.08	22.04	3.78e3	2.78e3	1.800	1.28	NO	0.24880	0.24882								
7	PCB-58	22.44	22.45	8.87e3	4.88e3	1.800	1.47	NO	0.48200	0.48247								
8	PCB-14	23.88	23.88	3.47e3	2.32e3	1.800	1.48	NO	0.22880	0.22843								
9	PCB-11	24.80	24.81	4.18e3	3.08e3	1.800	1.34	NO	0.28400	0.28438								
10	PCB-1283	26.28	26.18	7.78e3	6.78e3	1.800	1.38	NO	0.81880	0.81880								
11	PCB-15	26.84	26.83	3.82e3	2.81e3	1.800	1.48	NO	0.23100	0.23088								



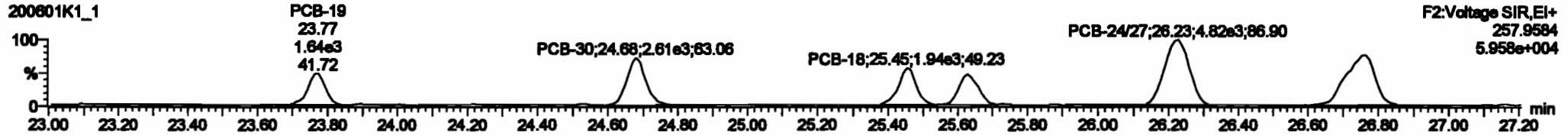
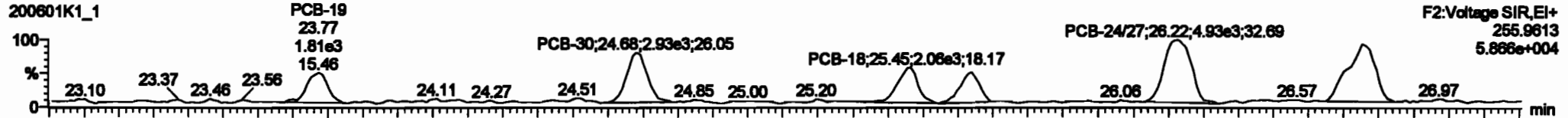


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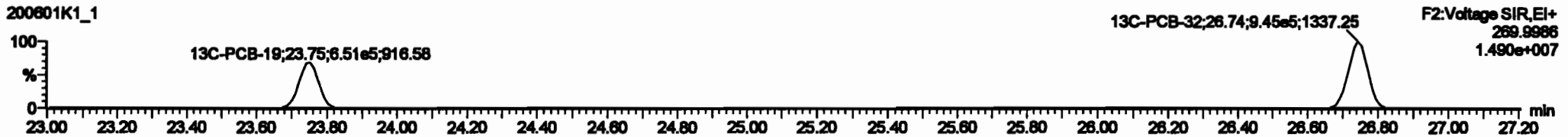
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Name: 200601K1\_1, Date: 01-Jun-2020, Time: 12:15:03, ID: ST200601K1-1 PCB 209 CS0 19G2606, Description: PCB 209 CS0 19G2606

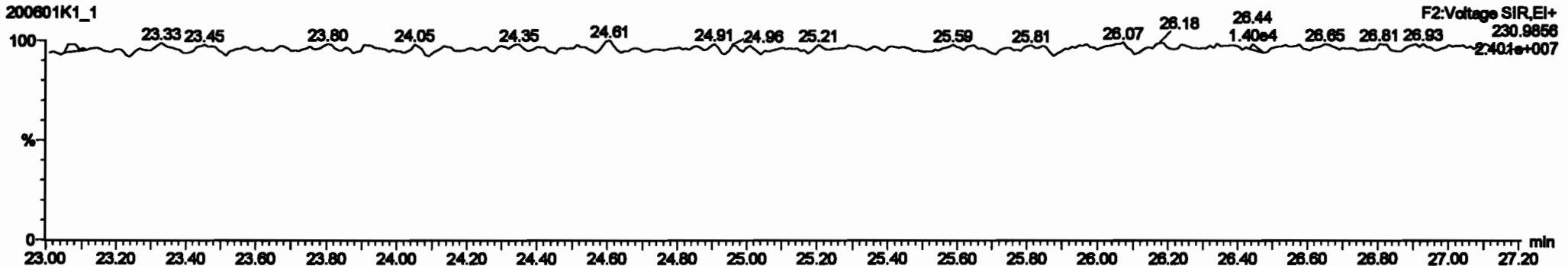
PCB-19



13C-PCB-19

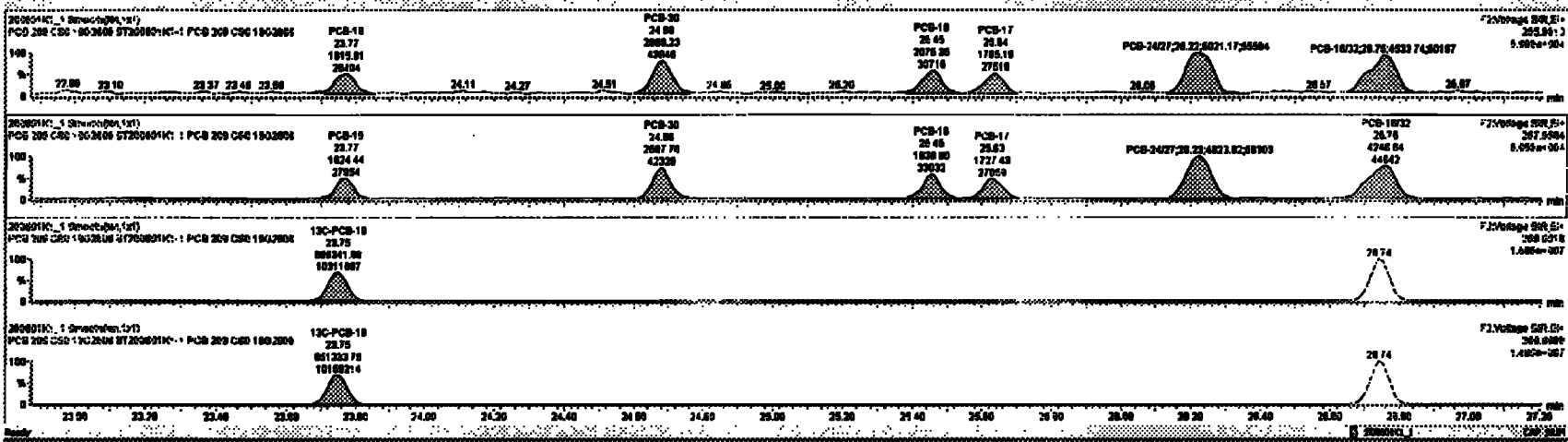


PFK2b



PCB No.	PCB Name	PCB Type	PCB Weight	PCB Volume	PCB Area	PCB Thickness	PCB Density	PCB Modulus	PCB Poisson's Ratio	PCB Thermal Expansion	PCB Thermal Conductivity	PCB Electrical Conductivity	PCB Electrical Resistivity	PCB Dielectric Constant	PCB Dielectric Loss	PCB Loss Tangent	PCB Loss Modulus	PCB Loss Phase	PCB Loss Factor	PCB Loss Modulus	PCB Loss Phase	PCB Loss Factor
216	13C-PCB-09	1.07e6	0.70	NO	1.0000	1.0000	20.00	20.00	1.0000	0.0000	NO	100.0	100	0.0000								
216	13C-PCB-111	1.07e6	1.02	NO	1.0000	1.0000	20.25	20.25	1.0000	0.0000	NO	100.0	100	0.0016								
217	13C-PCB-128	0.07e6	1.20	NO	1.0000	1.0000	40.00	40.00	1.0000	0.0000	NO	100.0	100	0.0004								
216	13C-PCB-167	0.08e6	0.40	NO	1.0000	1.0000	40.40	40.40	0.0000	0.0000	NO	100.0	100	0.0010								
216	13C-PCB-205	0.08e6	0.80	NO	1.0000	1.0000	80.80	80.80	1.0000	0.0000	NO	100.0	100	0.1400								
200	13C-PCB-70	1.00e6	0.70	NO	1.0000	1.0000	27.70	27.70	1.0000	1.0000	NO	100.0	100	0.0007								
201	13C-PCB-170	0.00e6	0.40	NO	0.7000	1.0000	40.40	40.40	0.0000	0.0000	NO	100.0	100	0.0000								
200	13C-PCB-70	1.00e6	0.70	NO	1.0000	1.0000	27.70	27.70	0.0000	0.0000	NO	100.0	100	0.0000								
200	13C-PCB-170	0.00e6	0.40	NO	1.0000	1.0000	40.40	40.40	0.0000	0.0000	NO	100.0	100	0.0000								
200	Total Mass-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000								
200	Total Stiffness				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	2.0000	0.0000	0.0000								

PCB No.	PCB Name	PCB Type	PCB Weight	PCB Volume	PCB Area	PCB Thickness	PCB Density	PCB Modulus	PCB Poisson's Ratio	PCB Thermal Expansion	PCB Thermal Conductivity	PCB Electrical Conductivity	PCB Electrical Resistivity	PCB Dielectric Constant	PCB Dielectric Loss	PCB Loss Tangent	PCB Loss Modulus	PCB Loss Phase	PCB Loss Factor	PCB Loss Modulus	PCB Loss Phase	PCB Loss Factor
13	PCB-10	20.70	20.77	1.00e6	1.00e6	1.0000	1.0000	1.10	NO	0.0000	0.0000											
13	PCB-30	24.00	24.00	2.00e6	2.00e6	1.0000	1.0000	1.10	NO	0.0000	0.0000											
14	PCB-10	20.40	20.40	2.00e6	1.00e6	1.0000	1.0000	1.07	NO	0.0000	0.0000											
15	PCB-17	20.00	20.00	1.70e6	1.70e6	1.0000	1.0000	1.06	NO	0.0000	0.0000											
16	PCB-247	20.20	20.22	5.00e6	4.00e6	1.0000	1.0000	1.01	NO	0.0000	0.0000											
17	PCB-1802	20.70	20.70	4.00e6	4.00e6	1.0000	1.0000	1.07	NO	0.0000	0.0000											

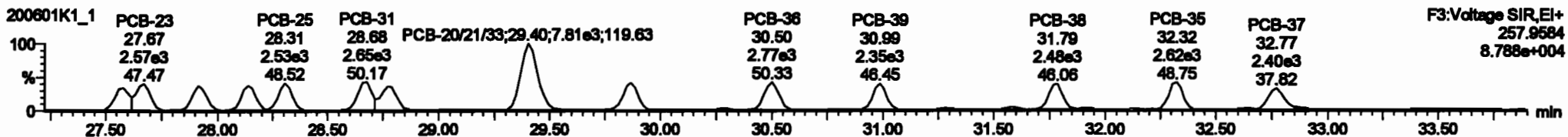
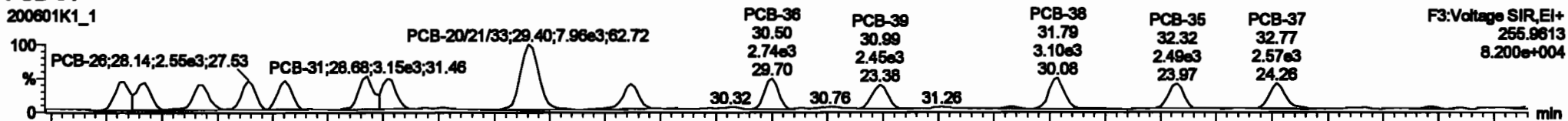


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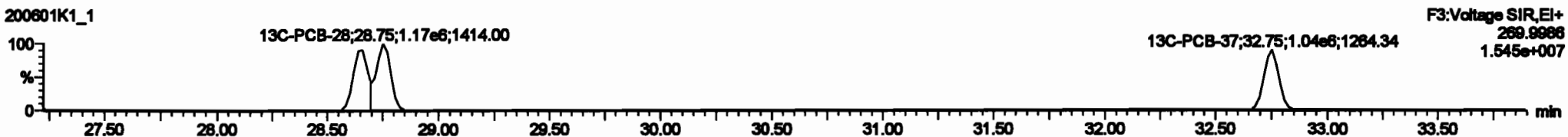
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Name: 200601K1\_1, Date: 01-Jun-2020, Time: 12:15:03, ID: ST200601K1-1 PCB 209 CS0 19G2606, Description: PCB 209 CS0 19G2606

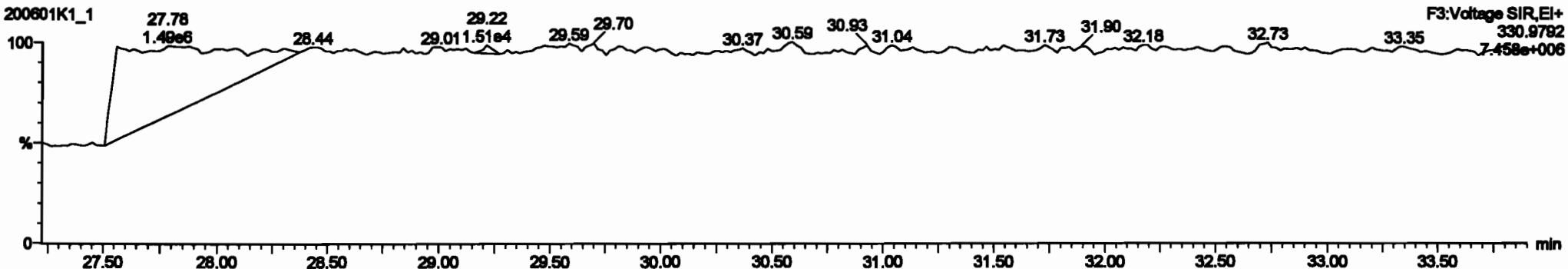
PCB-34



13C-PCB-28

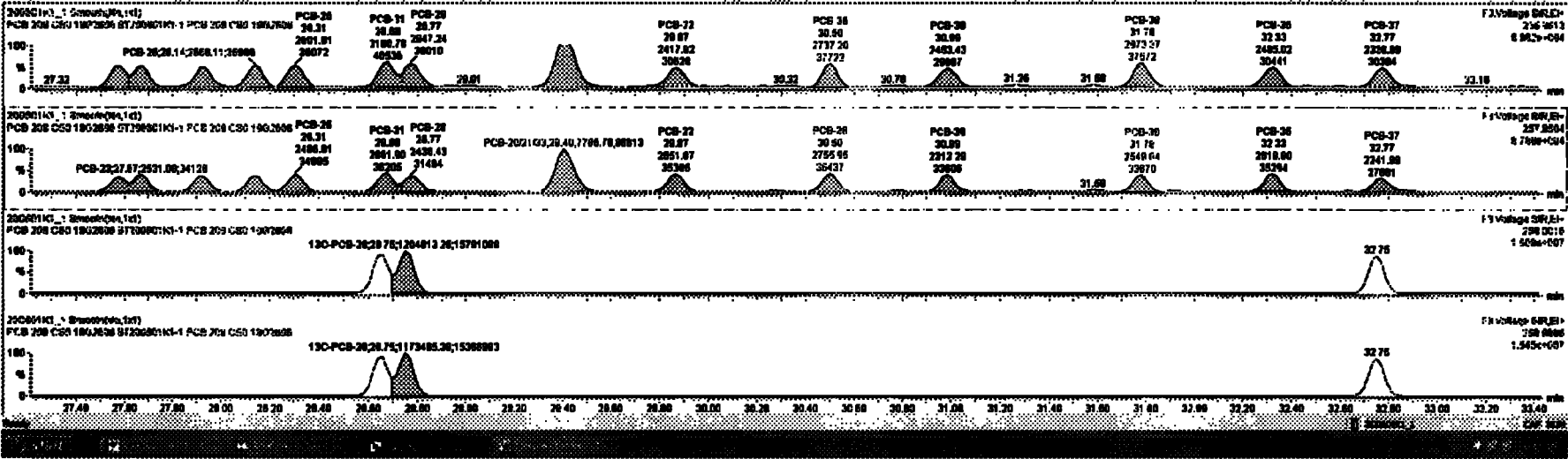


PFK3d



PCB No.	Year	PCB-28	PCB-31	PCB-38	PCB-22	PCB-30	PCB-37	PCB-36	PCB-39
228	Total Year-PCBs	1.0770	1.000	0.00	0.000	ND	0.017	0.267	0.017
229	2nd Function Parts-PCBs	1.2157	1.000	0.00	0.000	ND	0.000	0.310	0.000
230	4th Function Parts-PCBs	1.0726	1.000	0.00	0.000	ND	1.140	0.000	1.140
231	2nd Function Hous-PCBs	0.0000	1.000	0.00	0.000	ND	3.400	0.100	3.400
232	4th Function Hous-PCBs	1.0010	1.000	0.00	0.000	ND	0.001	0.100	0.001
233	Total Hous-PCBs	1.0010	1.000	0.00	0.000	ND	0.000	0.220	0.000
234	4th Function Oute-PCBs	1.0000	1.000	0.00	0.000	ND	2.100	0.0714	2.100
235	2nd Function Oute-PCBs	1.1400	1.000	0.00	0.000	ND	0.7210	0.0207	0.7210
236	Total Hous-PCBs	0.0000	1.000	0.00	0.000	ND	0.7101	0.0000	0.7100
237	Total PCBs	0.0004	1.000	0.00	0.000	ND	0.2200	0.0000	0.2200

PCB No.	Year	PCB-28	PCB-31	PCB-38	PCB-22	PCB-30	PCB-37	PCB-36	PCB-39
10	PCB-28	27.00	27.00	2.0200	2.2000	1.000	1.14	ND	0.2100
11	PCB-29	27.00	27.07	2.0140	2.0140	1.000	1.00	ND	0.2000
20	PCB-28	27.01	27.01	2.0000	2.0000	1.000	1.11	ND	0.2000
21	PCB-29	28.14	28.14	2.0000	2.0000	1.000	1.00	ND	0.2000
22	PCB-28	28.20	28.20	2.0000	2.0000	1.000	1.13	ND	0.2000
23	PCB-31	28.00	28.00	2.0000	2.0000	1.000	1.10	ND	0.2000
24	PCB-28	28.77	28.77	2.0000	2.0000	1.000	1.17	ND	0.2000
25	PCB-28	28.01	28.01	2.0000	2.0000	1.000	1.00	ND	0.2000
26	PCB-28	28.00	28.00	2.0000	2.0000	1.000	1.00	ND	0.2000

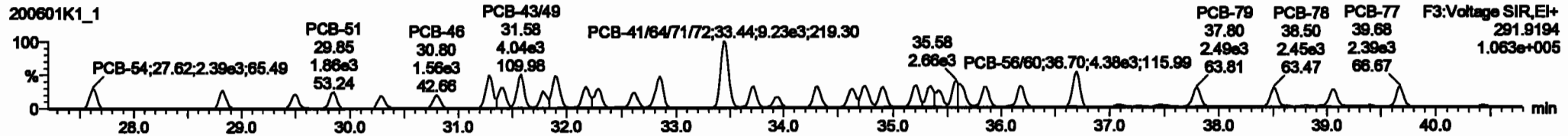
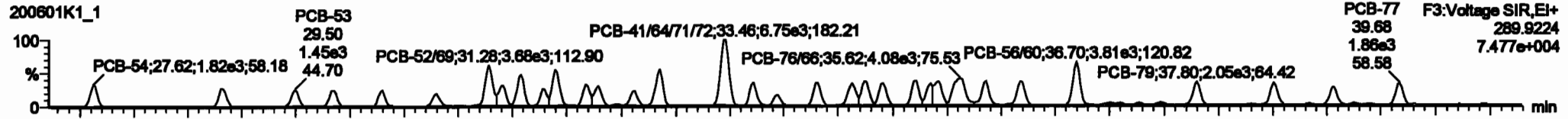


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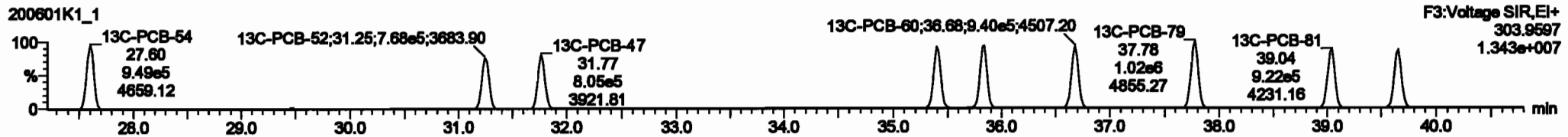
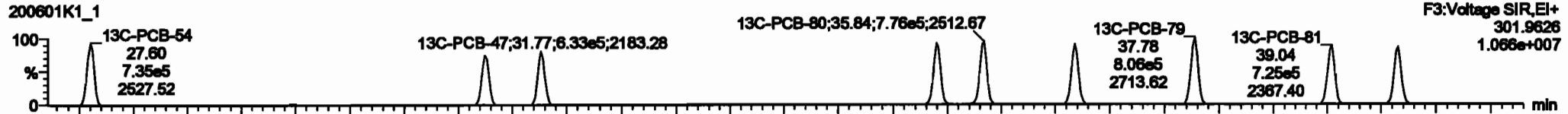
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_1, Date: 01-Jun-2020, Time: 12:15:03, ID: ST200601K1-1 PCB 209 CS0 19G2606, Description: PCB 209 CS0 19G2606

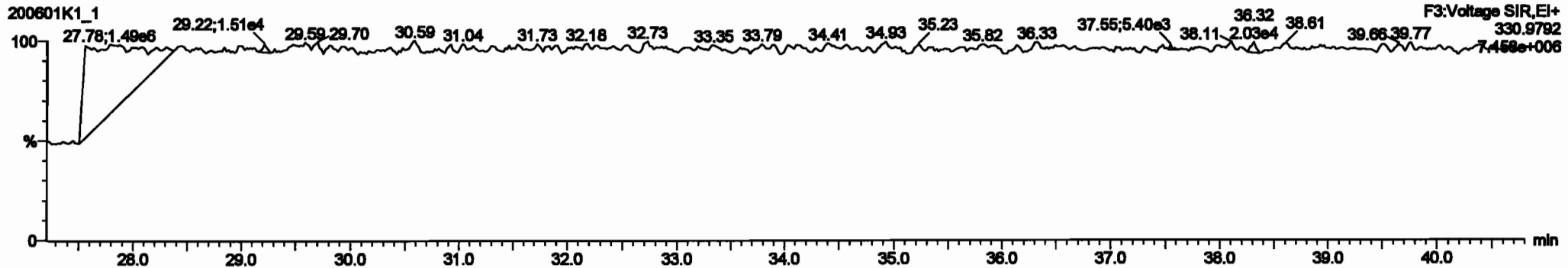
PCB-54



13C-PCB-54



PFK3a



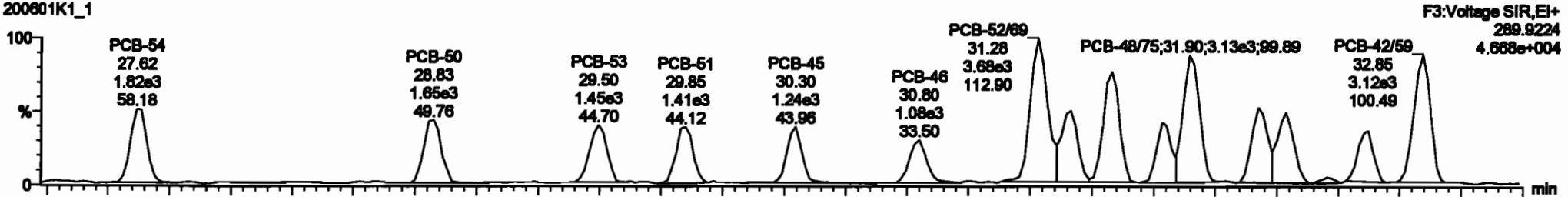
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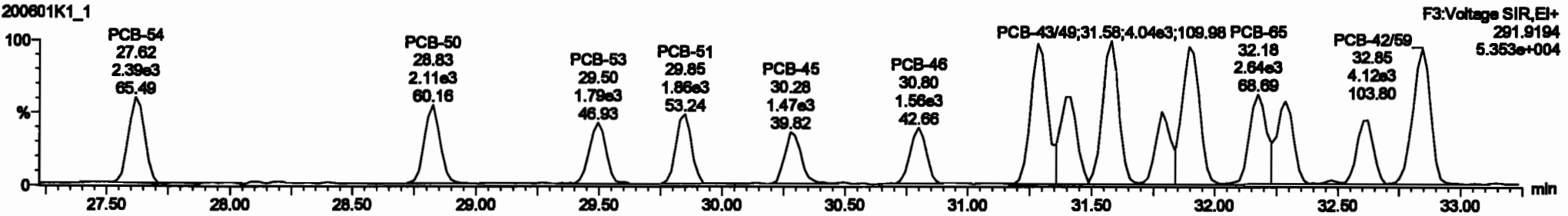
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**PCB-50**

200601K1\_1

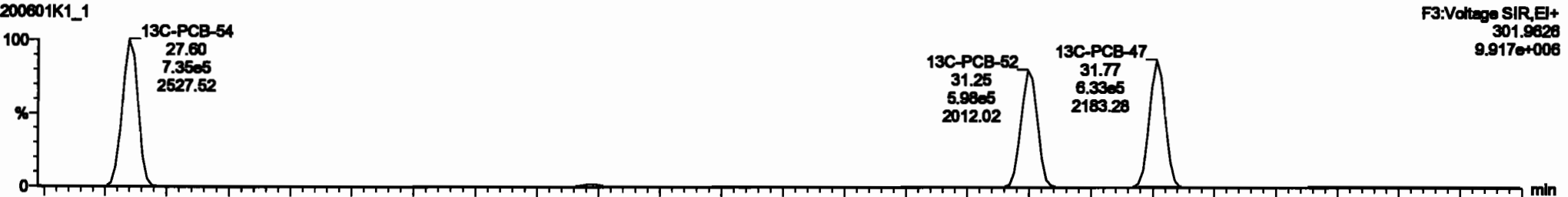


200601K1\_1

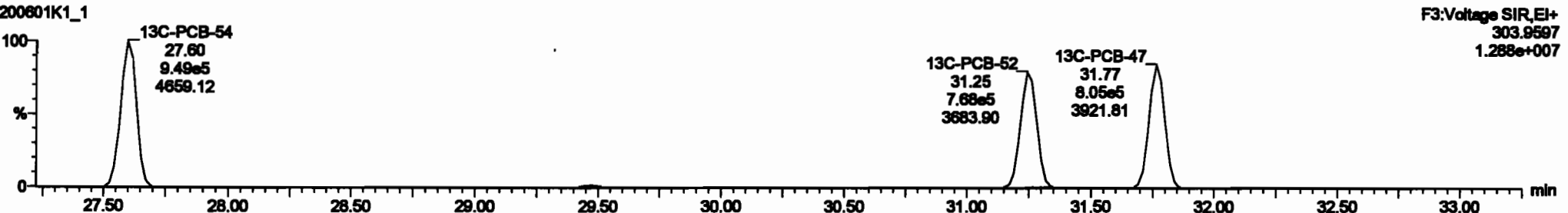


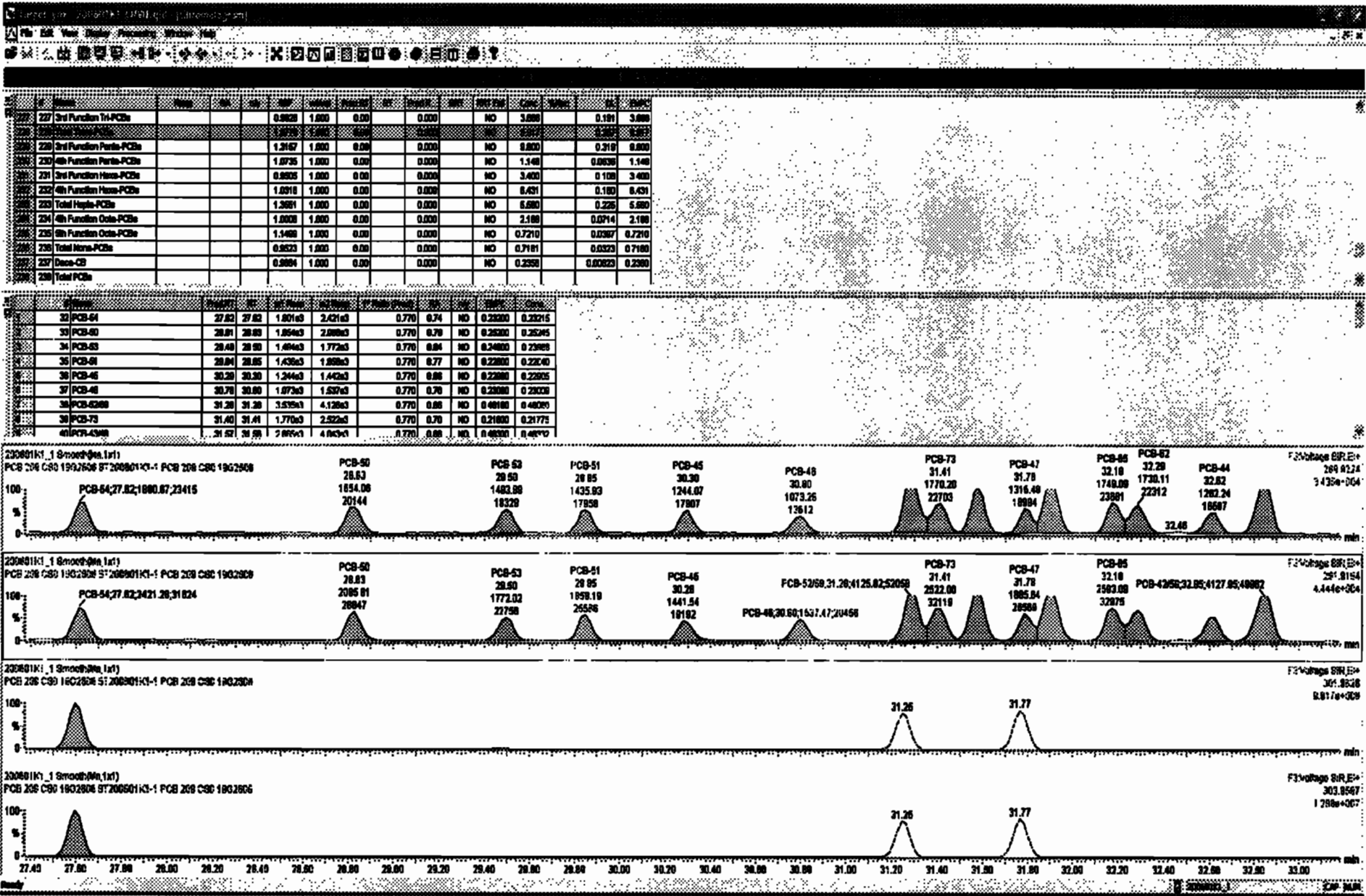
**<sup>13</sup>C-PCB-52**

200601K1\_1



200601K1\_1



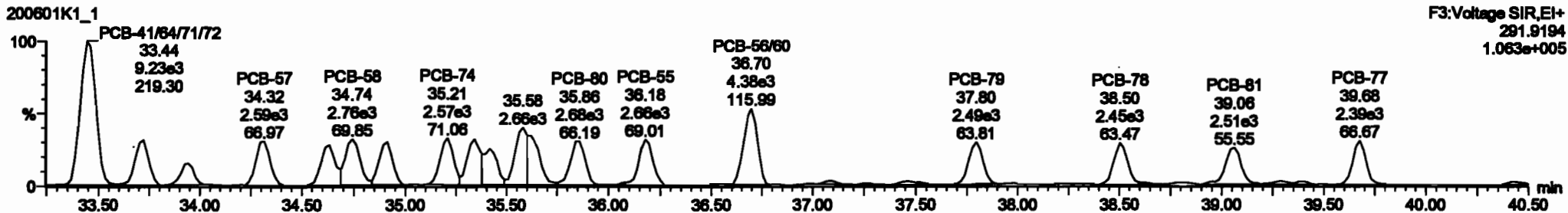
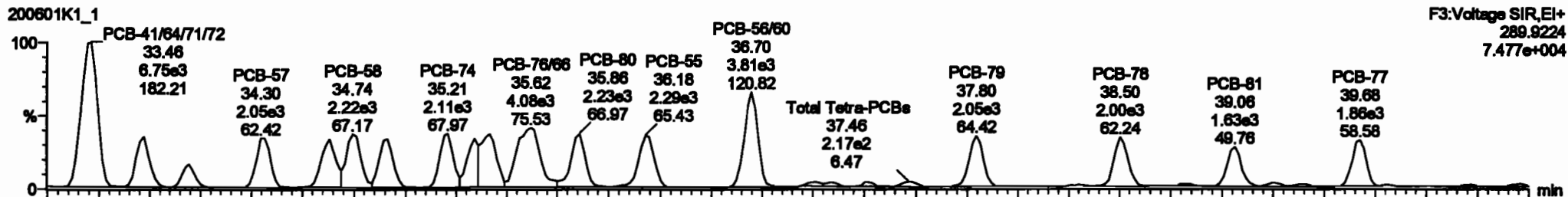


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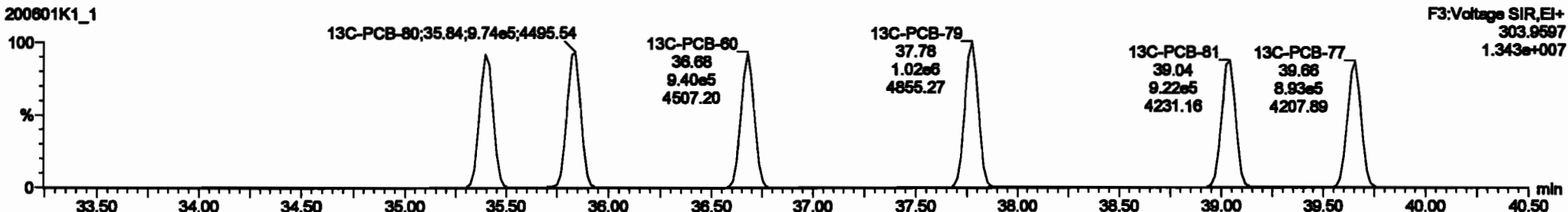
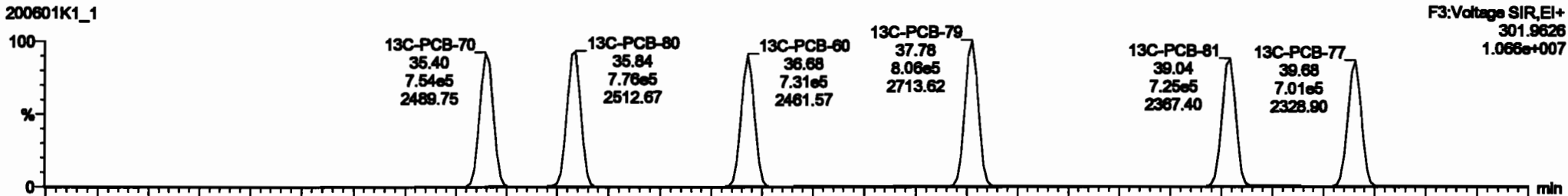
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Name: 200601K1\_1, Date: 01-Jun-2020, Time: 12:15:03, ID: ST200601K1-1 PCB 209 CS0 19G2606, Description: PCB 209 CS0 19G2606

**PCB-68**



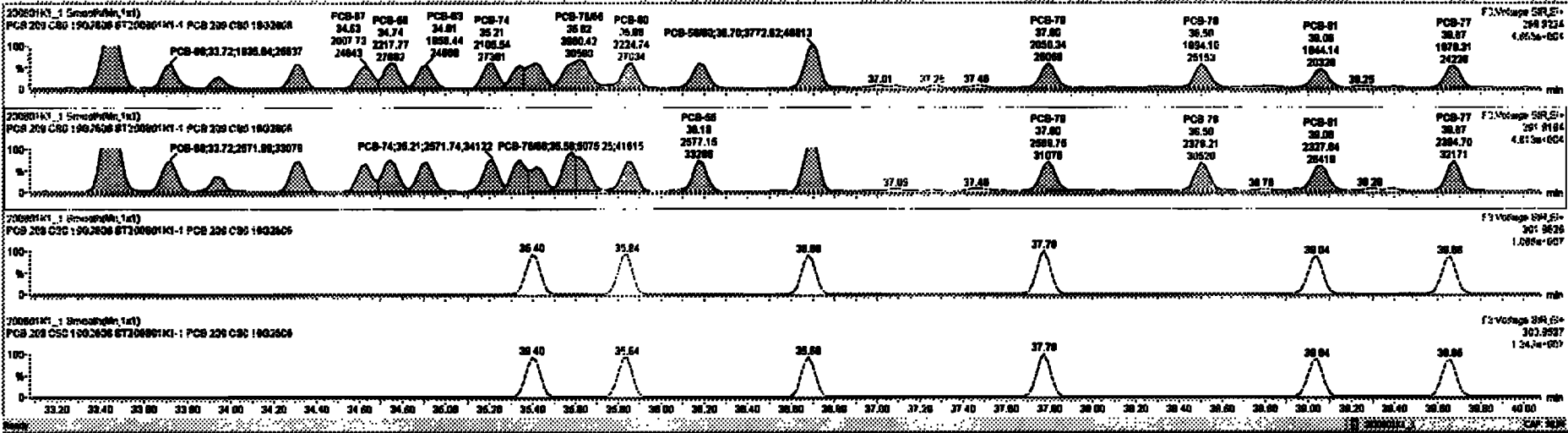
**13C-PCB-60**





Item	Material	QTY	Unit	Cost	Weight	Volume	Material	QTY	Unit	Cost	Weight	Volume
227	3rd Function 1M-PCBs	0.0000	1.000	0.00	0.000	NO	3.000	0.181	1.000			
228	3rd Function Parts-PCBs	1.2167	1.000	0.00	0.000	NO	0.000	0.213	0.000			
229	4th Function Parts-PCBs	1.0726	1.000	0.00	0.000	NO	1.540	0.000	1.140			
230	3rd Function Hous-PCBs	0.0000	1.000	0.00	0.000	NO	3.400	0.100	3.400			
231	4th Function Hous-PCBs	1.0310	1.000	0.00	0.000	NO	0.431	0.100	0.431			
232	Total Hous-PCBs	1.3881	1.000	0.00	0.000	NO	0.000	0.225	0.000			
233	4th Function Oute-PCBs	1.0000	1.000	0.00	0.000	NO	2.900	0.0714	2.100			
234	3rd Function Oute-PCBs	1.1400	1.000	0.00	0.000	NO	0.7210	0.0307	0.7210			
235	Total Hous-PCBs	0.0000	1.000	0.00	0.000	NO	0.7101	0.0323	0.7100			
237	Dress-CD	0.0004	1.000	0.00	0.000	NO	0.2000	0.0023	0.2000			
238	Total PCBs											

Item	Material	QTY	Unit	Cost	Weight	Volume	Material	QTY	Unit	Cost	Weight	Volume
32	PCB-84	27.02	27.02	1.001e0	2.421e0	0.770	0.24	NO	0.23200	0.23210		
33	PCB-85	20.01	20.01	1.001e0	2.000e0	0.770	0.29	NO	0.20200	0.20240		
34	PCB-86	20.00	20.00	1.001e0	1.772e0	0.770	0.04	NO	0.24000	0.23000		
35	PCB-87	20.04	20.00	1.001e0	1.000e0	0.770	0.27	NO	0.22000	0.22040		
36	PCB-45	30.20	30.20	1.244e0	1.442e0	0.770	0.00	NO	0.22000	0.22000		
37	PCB-46	30.70	30.00	1.072e0	1.000e0	0.770	0.70	NO	0.23000	0.23000		
38	PCB-6300	31.20	31.20	3.000e0	4.120e0	0.770	0.00	NO	0.40100	0.40000		
39	PCB-70	31.00	31.01	1.770e0	2.000e0	0.770	0.70	NO	0.21000	0.21770		
40	PCB-4300	31.07	31.00	2.000e0	4.000e0	0.770	0.00	NO	0.40000	0.40000		

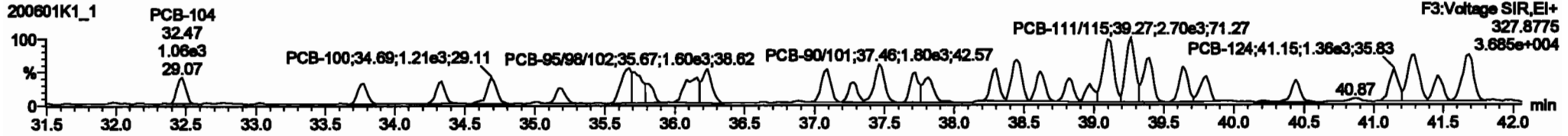
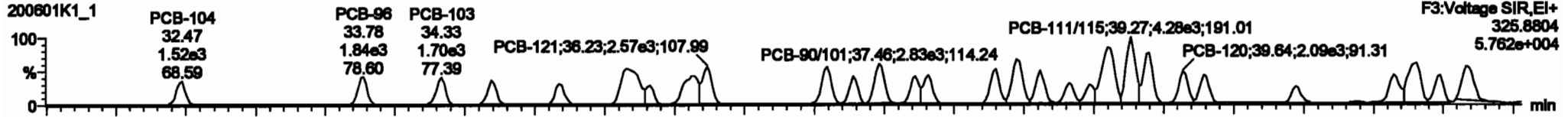


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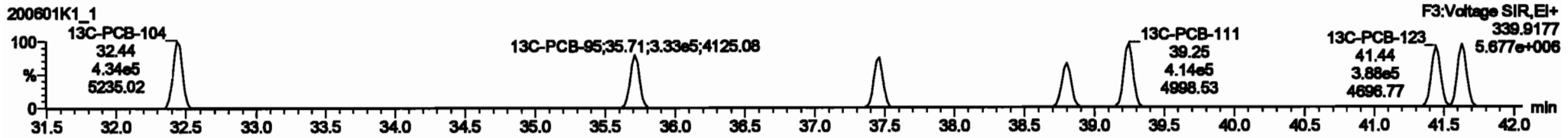
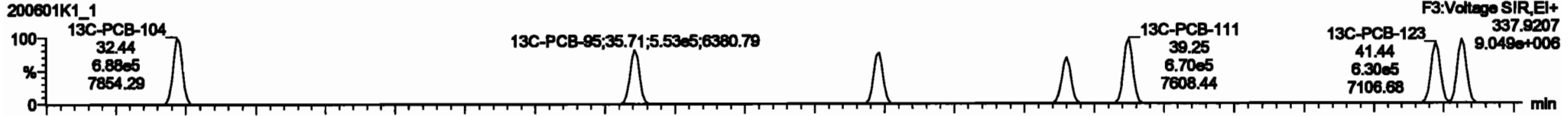
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_1, Date: 01-Jun-2020, Time: 12:15:03, ID: ST200601K1-1 PCB 209 CS0 19G2606, Description: PCB 209 CS0 19G2606

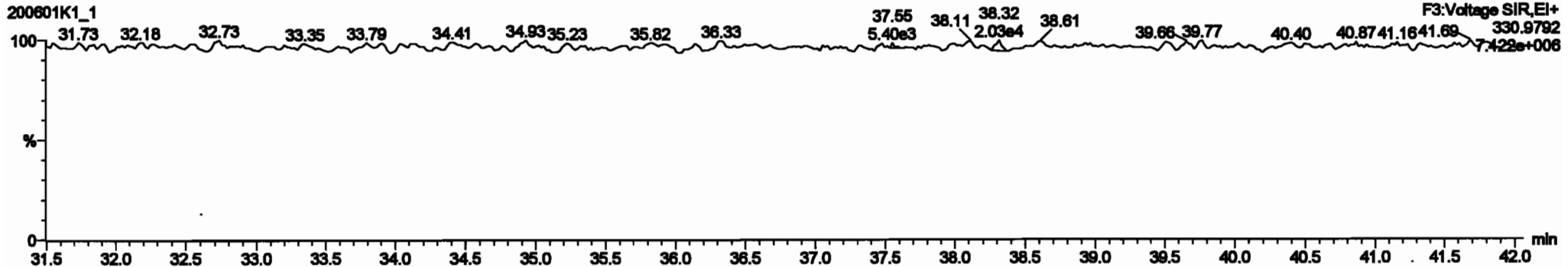
**PCB-104**



**13C-PCB-104**



**PFK3b**

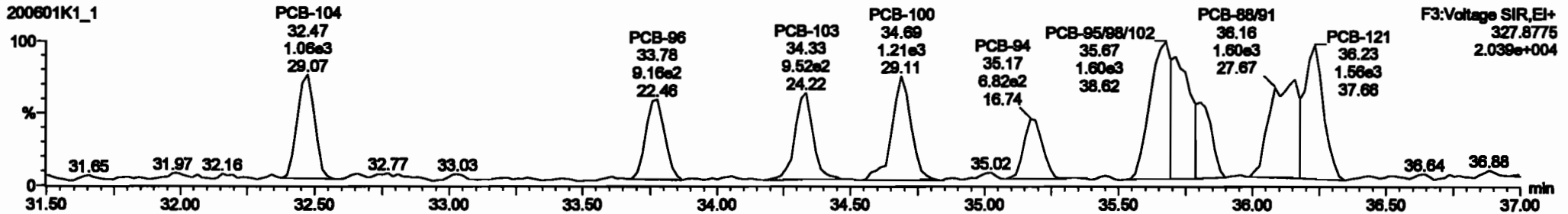
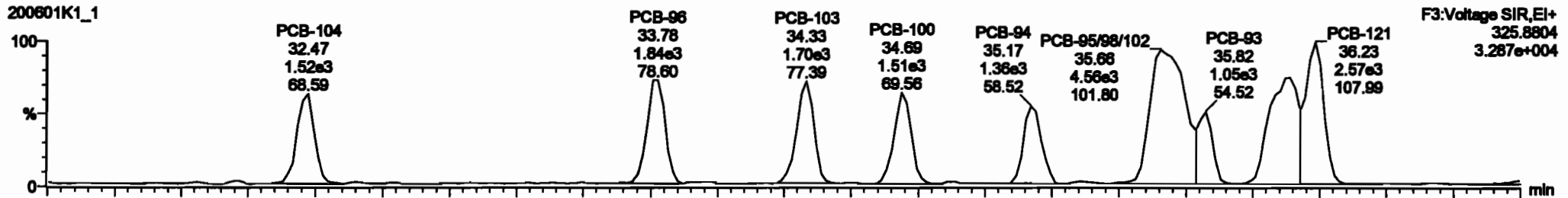


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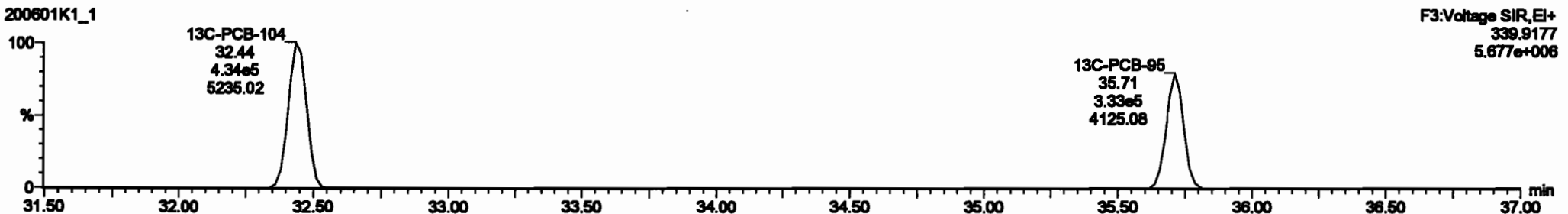
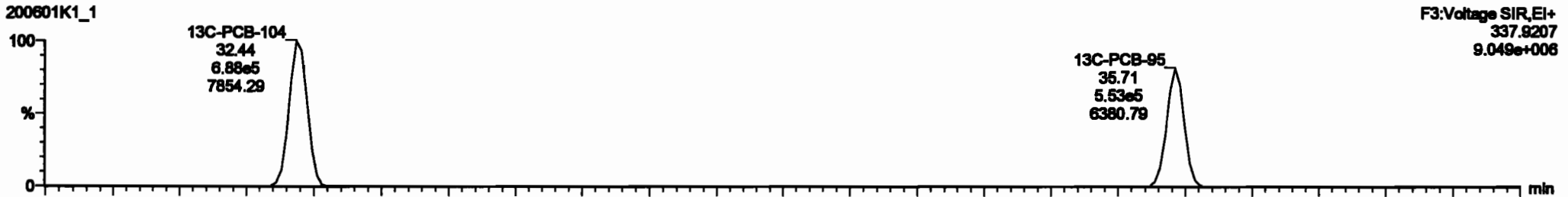
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PCB-96

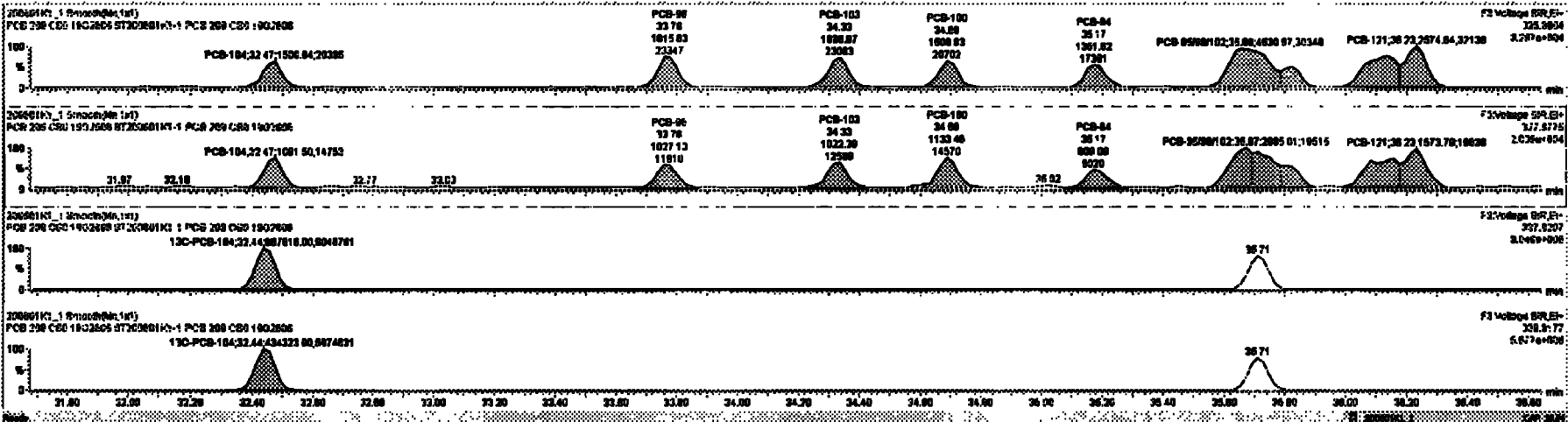


13C-PCB-95



Item	Mass	Area	Conc	Unit	Mass	Area	Conc	Unit	Mass	Area	Conc	Unit	
227 2nd Furthest TAP-PCBs					0.8928	1.000	0.00		0.000	NO	3.688	0.491	3.688
228 Total TAP-PCBs					1.0776	1.000	0.00		0.000	NO	8.917	0.287	8.917
229 3rd Furthest Para-PCBs					1.0726	1.000	0.00		0.000	NO	1.148	0.038	1.148
230 3rd Furthest Meta-PCBs					0.8926	1.000	0.00		0.000	NO	3.600	0.108	3.600
231 4th Furthest Para-PCBs					1.0318	1.000	0.00		0.000	NO	6.401	0.180	6.401
232 4th Furthest Meta-PCBs					1.2691	1.000	0.00		0.000	NO	6.680	0.225	6.680
233 Total Para-PCBs					1.0000	1.000	0.00		0.000	NO	2.188	0.074	2.188
234 5th Furthest Para-PCBs					1.1480	1.000	0.00		0.000	NO	6.7210	0.0887	6.7210
235 5th Furthest Meta-PCBs					0.8920	1.000	0.00		0.000	NO	6.2181	0.0023	6.2180
236 Total Meta-PCBs					0.8989	1.000	0.00		0.000	NO	6.2888	0.0023	6.2888
237 Dioxin-CB													
238 Total PCBs													

# Name	Peak #1	RT	Area	Conc	Peak #2	RT	Area	Conc
84 PCB-104	32.48	32.47	1.800e3	1.001e3	1.888	1.37	NO	0.20800
85 PCB-88	32.76	32.76	1.871e3	1.027e3	1.888	1.77	NO	0.22000
86 PCB-103	34.30	34.30	1.889e3	1.023e3	1.888	1.88	NO	0.28800
87 PCB-100	34.87	34.88	1.889e3	1.133e3	1.888	1.33	NO	0.24900
88 PCB-84	35.18	35.17	1.382e3	8.091e2	1.888	1.87	NO	0.28700
89 PCB-88/88/88/82	35.87	35.88	4.889e3	2.888e3	1.888	1.83	NO	0.70800
90 PCB-88	35.76	35.82	1.048e3	7.388e2	1.888	1.42	NO	0.21800
91 PCB-88/81	35.14	35.14	2.882e3	1.854e3	1.888	1.77	NO	0.48800
92 PCB-121	35.30	35.30	2.879e3	1.879e3	1.888	1.84	NO	0.27800



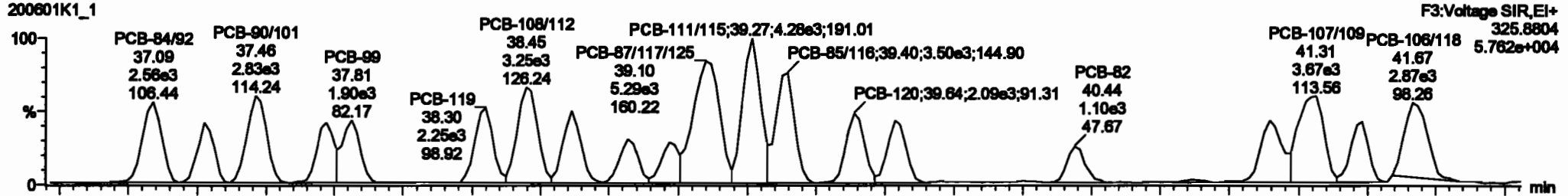
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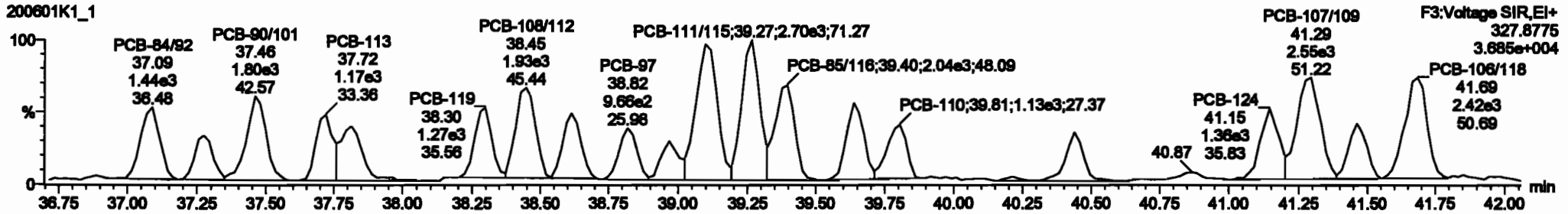
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PCB-119

200801K1\_1

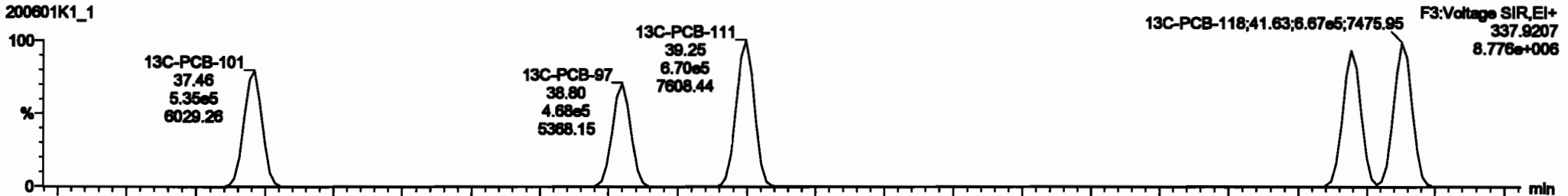


200801K1\_1

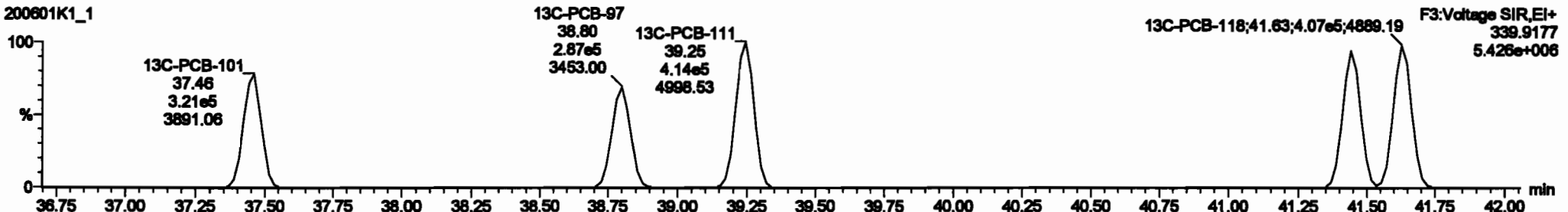


13C-PCB-111

200801K1\_1

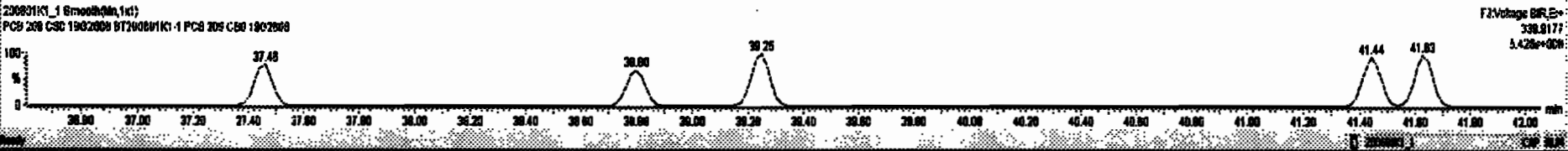
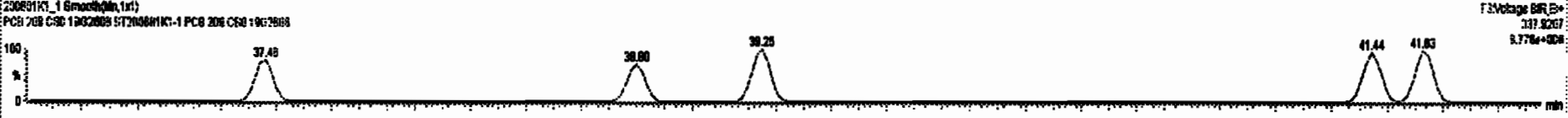
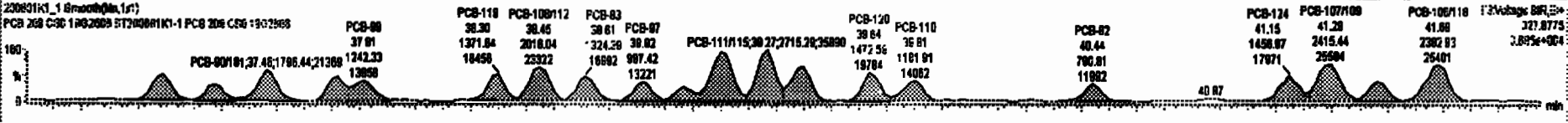
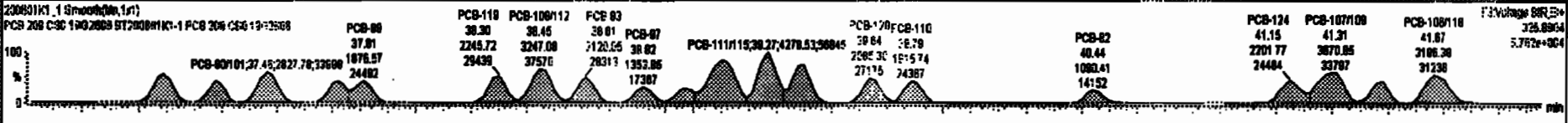


200801K1\_1



#	Name	Mass	RA	RG	RM	Volume	Height	Area	Area%	Height	Height%	Area%	Area%	Area%
227	3rd Function Tri-PCBs					0.0028	1.000	0.00	0.000	ND	3.000		0.191	3.000
228	Total Tri-PCBs					1.0778	1.000	0.00	0.000	ND	0.917		0.267	0.917
229	4th Function Penta-PCBs					1.0735	1.000	0.00	0.000	ND	1.140		0.0636	1.140
230	Total Penta-PCBs					0.9595	1.000	0.00	0.000	ND	3.400		0.160	3.400
231	3rd Function Hepta-PCBs					1.0918	1.000	0.00	0.000	ND	0.431		0.180	0.431
232	Total Hepta-PCBs					1.3991	1.000	0.00	0.000	ND	0.580		0.225	0.580
233	4th Function Octa-PCBs					1.0088	1.000	0.00	0.000	ND	2.180		0.0714	2.180
234	Total Octa-PCBs					1.1480	1.000	0.00	0.000	ND	0.7210		0.0387	0.7210
235	Total Mono-PCBs					0.8523	1.000	0.00	0.000	ND	0.7101		0.0523	0.7101
237	Deca-CB					0.0004	1.000	0.00	0.000	ND	0.2068		0.00620	0.2068
238	Total PCBs													

#	Name	Peak1	Area	Height	Area%	Height%	Area%	Area%
84	PCB-104	32.48	32.47	1.580e3	1.091e3	1.580	1.37	ND
85	PCB-88	33.78	33.78	1.846e3	1.822e3	1.580	1.37	ND
86	PCB-103	34.30	34.33	1.887e3	1.822e3	1.580	1.85	ND
87	PCB-100	34.67	34.69	1.507e3	1.133e3	1.580	1.33	ND
89	PCB-84	35.18	35.17	1.352e3	8.891e2	1.580	1.87	ND
89	PCB-8908102	35.67	35.66	4.531e3	2.955e3	1.580	1.52	ND
70	PCB-83	36.78	36.82	1.048e3	7.388e2	1.580	1.42	ND
71	PCB-8901	38.14	38.14	2.822e3	1.854e3	1.580	1.77	ND
72	PCB-121	38.23	38.23	7.575e3	1.574e3	1.580	1.84	ND

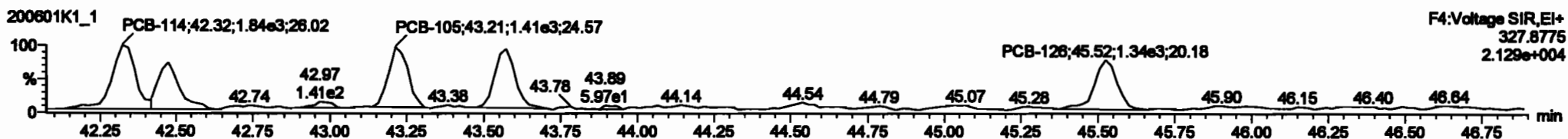
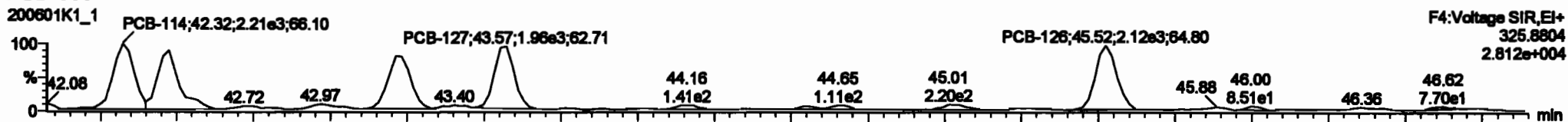


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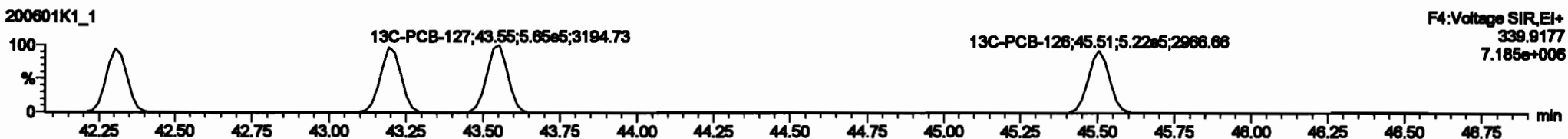
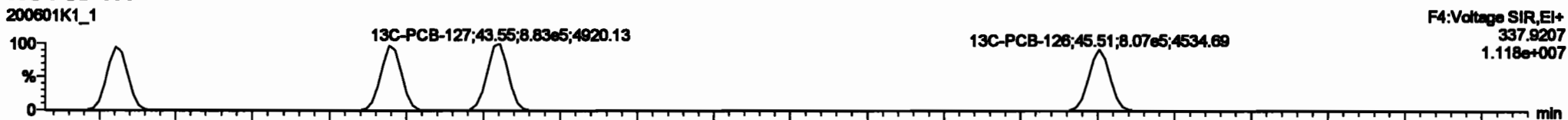
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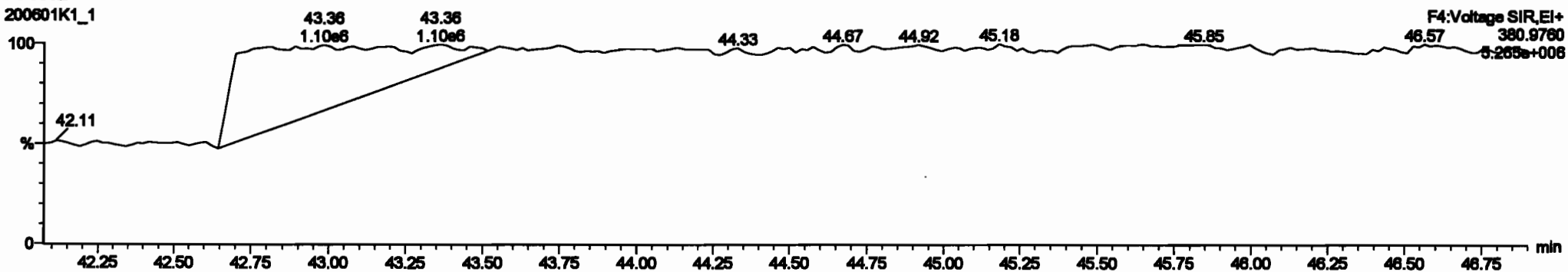
**PCB-114**



**13C-PCB-114**

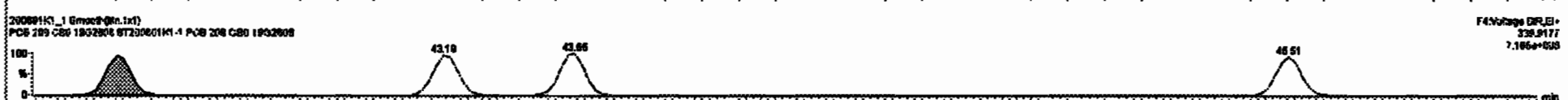
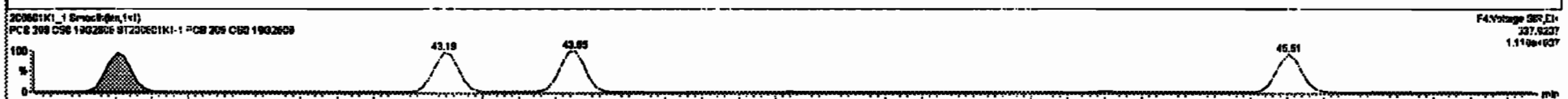
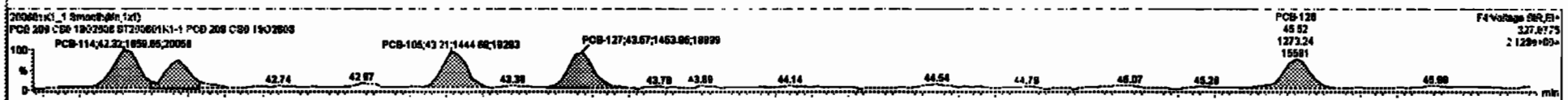
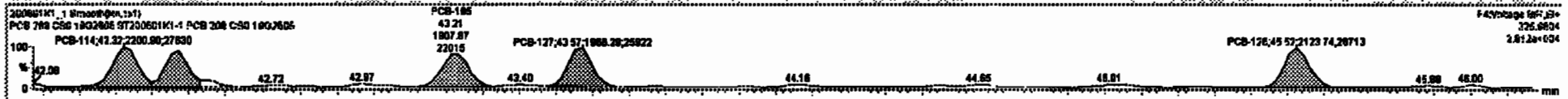


**PFK4a**



#	Mass	Area	HR	Yield	HR	Yield	HR	Yield	HR	Yield	HR	Yield	HR	Yield	HR	Yield	HR	Yield
227	2nd Function Tri-PCBs			0.8928	1.000	0.00		0.800	NO	3.888		0.101	3.888					
228	Total Tri-PCBs			1.8778	1.000	0.00		0.800	NO	8.817		0.287	8.817					
229	2nd Function Penta-PCBs			1.2157	1.000	0.00		0.800	NO	8.800		0.318	8.800					
230	Total Penta-PCBs			1.2157	1.000	0.00		0.800	NO	8.800		0.318	8.800					
231	2nd Function Hexa-PCBs			0.8808	1.000	0.00		0.800	NO	3.400		0.108	3.400					
232	6th Function Hexa-PCBs			1.0318	1.000	0.00		0.800	NO	6.431		0.180	6.431					
233	Total Hexa-PCBs			1.9126	1.000	0.00		0.800	NO	9.831		0.228	9.831					
234	6th Function Octa-PCBs			1.0008	1.000	0.00		0.800	NO	2.108		0.6714	2.108					
235	6th Function Deca-PCBs			1.1488	1.000	0.00		0.800	NO	0.7210		0.0387	0.7210					
236	Total Octa-PCBs			0.8808	1.000	0.00		0.800	NO	0.7101		0.0328	0.7101					
237	Total Deca-PCBs			0.8808	1.000	0.00		0.800	NO	0.2388		0.0023	0.2388					
238	Total PCBs																	

#	Mass	Area	HR	Yield	HR	Yield	HR	Yield	HR	Yield	HR	Yield	HR	Yield	HR	Yield	HR	Yield
89	PCB-114	42.28	42.22	2.201e5	1.890e5	1.880	1.35	NO	0.21800	0.20817								
94	PCB-122	42.67	42.67	1.822e5	1.138e5	1.880	1.81	NO	0.23100	0.23088								
88	PCB-105	43.21	43.21	1.808e5	1.448e5	1.880	1.32	NO	0.22800	0.22776								
86	PCB-127	43.57	43.57	1.888e5	1.454e5	1.880	1.38	NO	0.22300	0.22285								
87	PCB-128	45.82	45.82	2.124e5	1.372e5	1.880	1.87	NO	0.21800	0.21808								





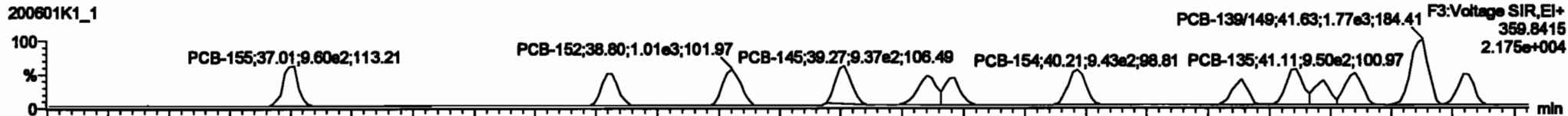
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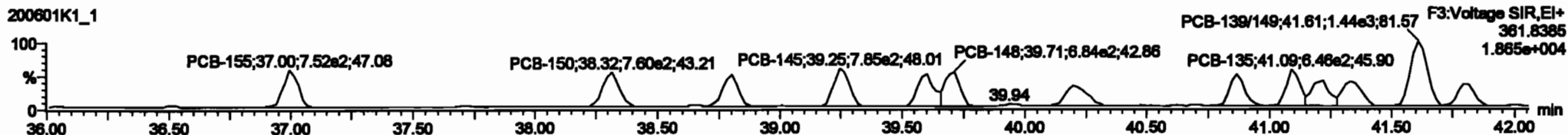
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**PCB-155**

200601K1\_1



200601K1\_1

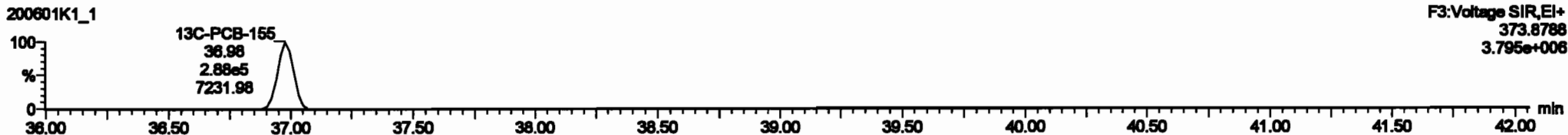


**13C-PCB-155**

200601K1\_1

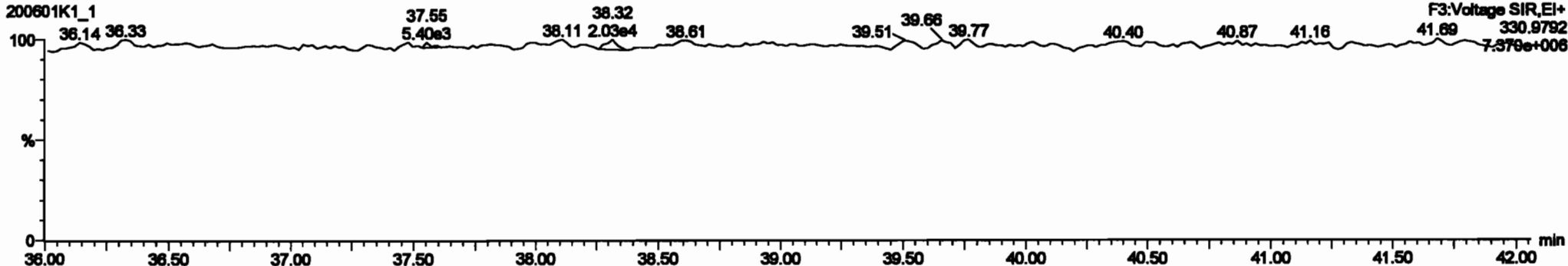


200601K1\_1



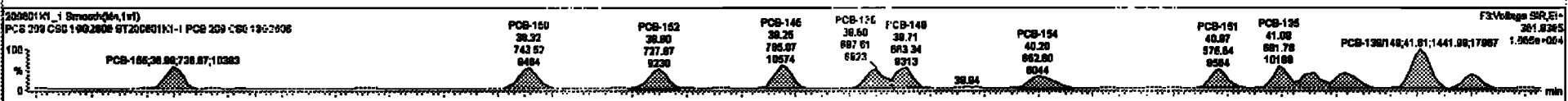
**PFK3c**

200601K1\_1



#	Phase	Mass	CS	CP	SP	CP/SP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP
227	2nd Function Tri-PCBs					0.8828	1.000	0.00		0.000	NO	3.888		0.181	3.888			
228	Total Tri-PCBs					1.2778	1.000	0.00		0.000	NO	8.917		0.287	8.917			
229	2nd Function Penta-PCBs					1.3187	1.000	0.00		0.000	NO	9.800		0.318	9.800			
230	4th Function Penta-PCBs					1.0738	1.000	0.00		0.000	NO	1.148		0.0538	1.148			
231	Total Penta-PCBs					2.3925	1.000	0.00		0.000	NO	1.148		0.142	1.148			
232	4th Function Hexa-PCBs					1.3318	1.000	0.00		0.000	NO	6.431		0.180	6.431			
233	Total Hexa-PCBs					1.3881	1.000	0.00		0.000	NO	6.880		0.225	6.880			
234	4th Function Octa-PCBs					1.0008	1.000	0.00		0.000	NO	2.188		0.0714	2.188			
235	8th Function Octa-PCBs					1.1488	1.000	0.00		0.000	NO	0.7210		0.0287	0.7210			
236	Total Octa-PCBs					0.8828	1.000	0.00		0.000	NO	0.7181		0.0328	0.7181			
237	Deca-CP					0.9884	1.000	0.00		0.000	NO	0.2388		0.00828	0.2388			
238	Total PCBs																	

#	Phase	Mass	CS	CP	SP	CP/SP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP	CP/CP
89	PCB-158	38.98	37.01	8.801e2	7.387e2	1.240	1.30	NO	0.24700	0.24732								
90	PCB-160	38.32	38.30	8.464e2	7.435e2	1.240	1.14	NO	0.22300	0.22310								
100	PCB-162	38.80	38.80	8.888e2	7.278e2	1.240	1.37	NO	0.22100	0.22078								
101	PCB-146	38.27	38.27	1.018e2	7.881e2	1.240	1.30	NO	0.28100	0.28080								
102	PCB-138	38.80	38.80	8.158e2	8.878e2	1.240	1.18	NO	0.22400	0.22404								
103	PCB-148	38.71	38.71	7.081e2	8.838e2	1.240	1.05	NO	0.24800	0.24844								
104	PCB-154	40.21	40.22	8.078e2	8.538e2	1.240	1.38	NO	0.25800	0.25830								
105	PCB-161	40.88	40.88	8.188e2	8.788e2	1.240	1.07	NO	0.28100	0.28088								
106	PCB-136	41.11	41.11	8.348e2	8.918e2	1.240	1.38	NO	0.28800	0.28828								



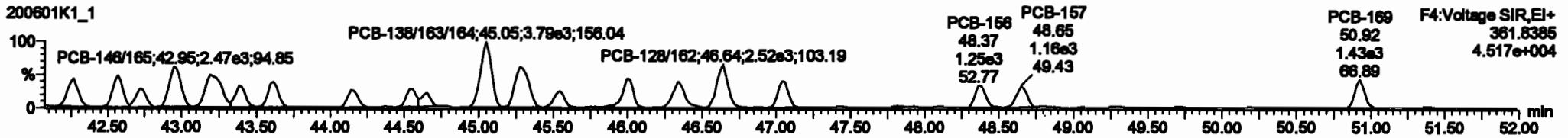
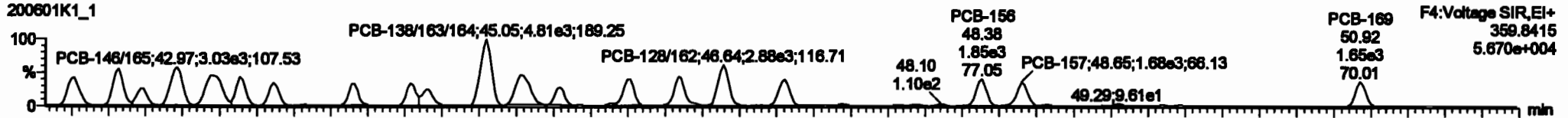
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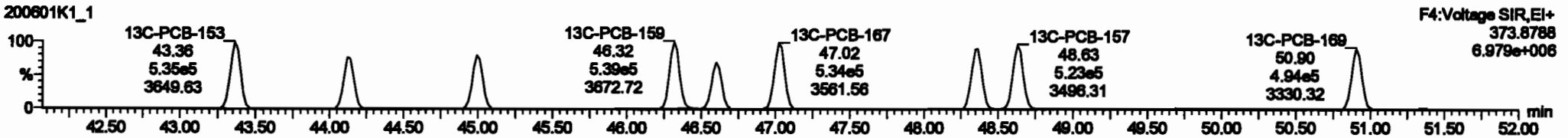
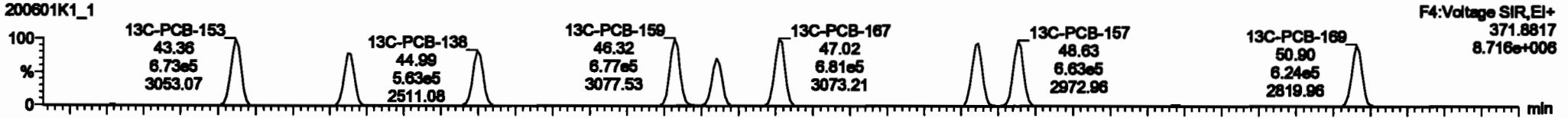
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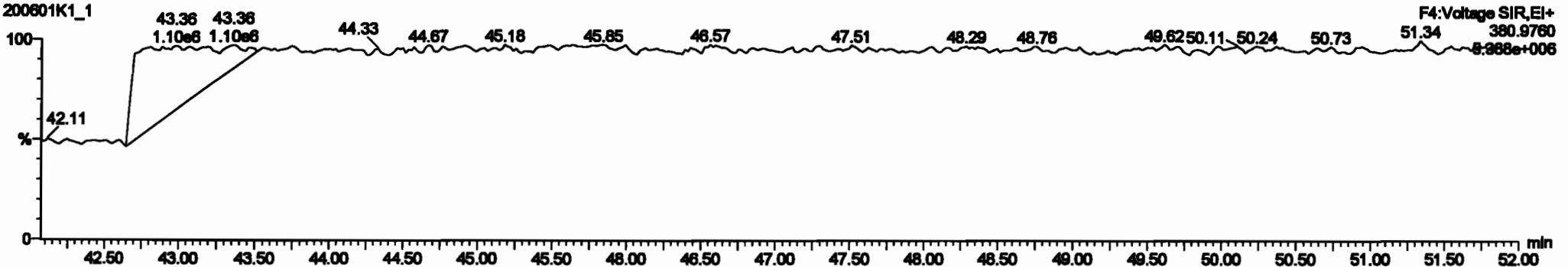
PCB-134/143



13C-PCB-153

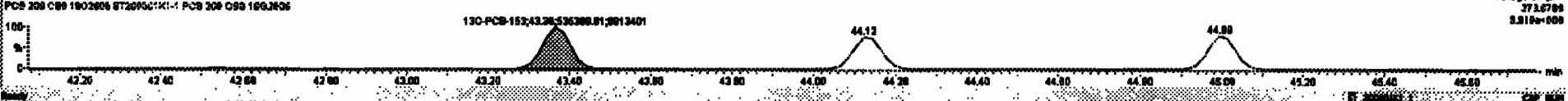
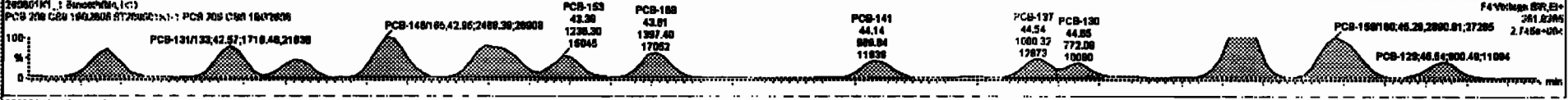


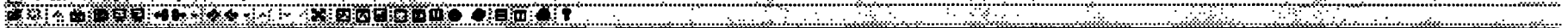
PFK4b



PCB	Function	Wt	PCB	Wt	PCB	Wt	PCB	Wt	PCB	Wt	PCB	Wt	PCB	Wt	PCB	Wt	PCB	Wt
227	3rd Function In-PCBs				0.0028	1.000	0.00	0.000	NO	3.888		0.191	3.888					
228	Total In-PCBs				1.0778	1.000	0.00	0.000	NO	8.917		0.287	8.917					
229	3rd Function Para-PCBs				1.2187	1.000	0.00	0.000	NO	8.800		0.218	8.800					
230	3rd Function Para-PCBs				1.0728	1.000	0.00	0.000	NO	1.148		0.088	1.148					
231	3rd Function Para-PCBs				0.0003	1.000	0.00	0.000	NO	3.480		0.108	3.480					
232	3rd Function Para-PCBs				1.2187	1.000	0.00	0.000	NO	8.800		0.218	8.800					
233	Total Para-PCBs				1.2991	1.000	0.00	0.000	NO	5.980		0.223	5.980					
234	3rd Function Para-PCBs				1.0000	1.000	0.00	0.000	NO	2.188		0.974	2.188					
235	3rd Function Para-PCBs				1.1488	1.000	0.00	0.000	NO	0.7210		0.0887	0.7210					
236	Total Para-PCBs				0.0023	1.000	0.00	0.000	NO	0.7181		0.0323	0.7181					
237	Dioxin-CB				0.0004	1.000	0.00	0.000	NO	0.2988		0.0003	0.2988					
238	Total PCBs																	

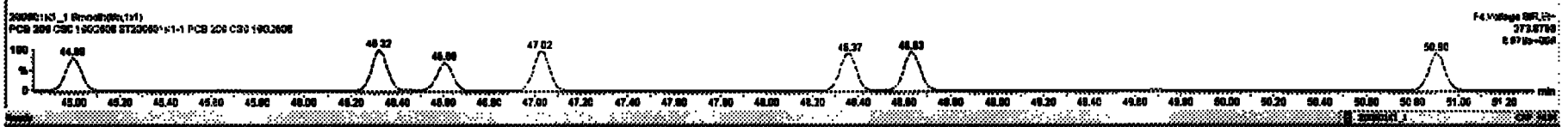
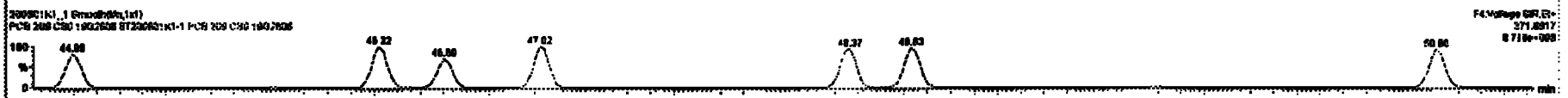
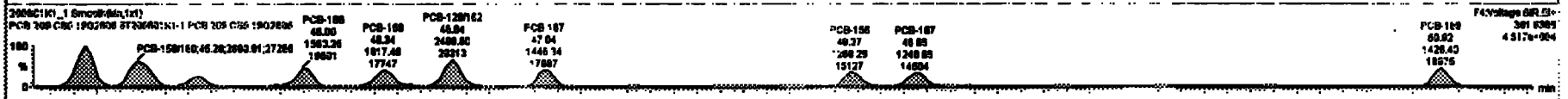
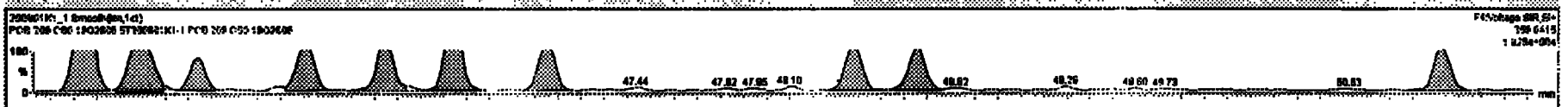
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111	PCB-134/43	43.28	43.28	2.1520	1.0000	1.240	1.28	NO	0.4080	0.4078							
112	PCB-138/33	43.88	43.87	2.4440	1.7180	1.240	1.43	NO	0.4300	0.4188							
113	PCB-142	43.72	43.72	1.2080	1.0180	1.240	1.18	NO	0.2400	0.2408							
114	PCB-148/85	43.97	43.97	3.0280	2.4880	1.240	1.28	NO	0.4478	0.4478							
115	PCB-152/81	43.38	43.18	3.2080	2.8840	1.240	1.21	NO	0.4788	0.4788							
116	PCB-158	43.38	43.38	1.7880	1.2380	1.240	1.43	NO	0.2288	0.2288							
117	PCB-168	43.81	43.81	1.8280	1.3878	1.240	1.88	NO	0.2288	0.2287							
118	PCB-141	44.14	44.14	1.2380	0.8880	1.240	1.34	NO	0.2288	0.2288							
119	PCB-137	44.84	44.84	1.2880	1.0080	1.240	1.38	NO	0.2218	0.2213							





Peak	Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
227	Int Punction T4-PCBs			0.8958	1.800	0.00	0.0000	ND	3.880	0.101	2.880						
228	Total T4-PCBs			1.0776	1.800	0.00	0.0000	ND	0.917	0.287	0.917						
229	Int Punction Penta-PCBs			1.2167	1.800	0.00	0.0000	ND	0.600	0.298	0.600						
230	Int Punction Hexa-PCBs			1.0796	1.800	0.00	0.0000	ND	1.140	0.000	1.140						
231	Int Punction Hepta-PCBs			0.8888	1.800	0.00	0.0000	ND	3.400	0.108	3.400						
232	Total Hepta-PCBs			1.2681	1.800	0.00	0.0000	ND	0.880	0.268	0.880						
234	Int Punction Octa-PCBs			1.0008	1.800	0.00	0.0000	ND	2.100	0.074	2.100						
235	Int Punction Nona-PCBs			1.1408	1.800	0.00	0.0000	ND	0.720	0.007	0.720						
236	Total Nona-PCBs			0.8923	1.800	0.00	0.0000	ND	0.710	0.005	0.710						
237	Dioxin-CB			0.8884	1.800	0.00	0.0000	ND	0.298	0.005	0.298						
238	Total PCBs																

Peak	Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
111	PCB-149/153	43.33	43.33	2.180e3	1.800e3	1.240	1.38	ND	0.4000	0.0700							
112	PCB-151/155	43.88	43.87	2.444e3	1.710e3	1.240	1.42	ND	0.4000	0.0700							
113	PCB-142	42.72	42.72	1.280e3	1.010e3	1.240	1.18	ND	0.2000	0.2000							
114	PCB-148/150	42.87	42.87	3.020e3	2.400e3	1.240	1.23	ND	0.4000	0.0700							
115	PCB-129/131	43.20	43.19	3.280e3	3.880e3	1.240	1.21	ND	0.4000	0.0700							
116	PCB-143	43.30	43.30	1.780e3	1.280e3	1.240	1.42	ND	0.2000	0.2000							
117	PCB-146	43.81	43.81	1.820e3	1.280e3	1.240	1.08	ND	0.2000	0.2000							
118	PCB-141	44.14	44.14	1.200e3	0.880e3	1.240	1.34	ND	0.2000	0.2000							
119	PCB-157	44.84	44.84	1.280e3	1.000e3	1.240	1.38	ND	0.2000	0.2000							



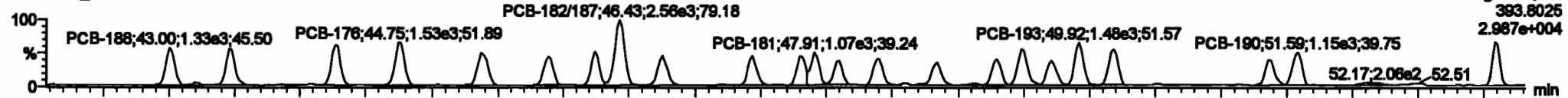
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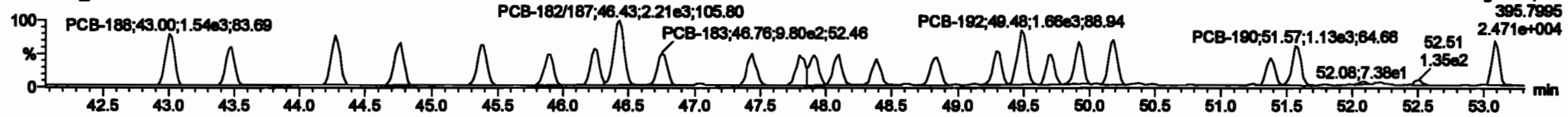
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**PCB-188**

200601K1\_1

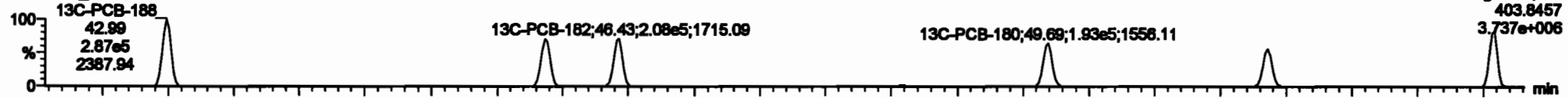


200601K1\_1

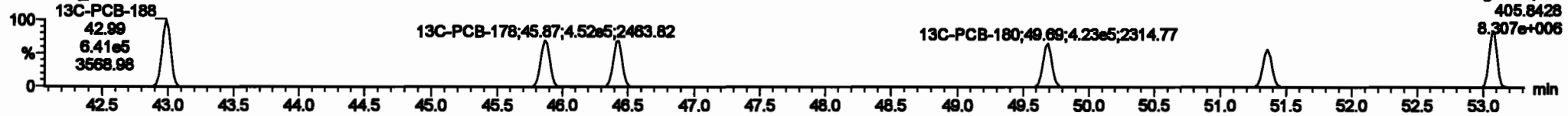


**13C-PCB-188**

200601K1\_1

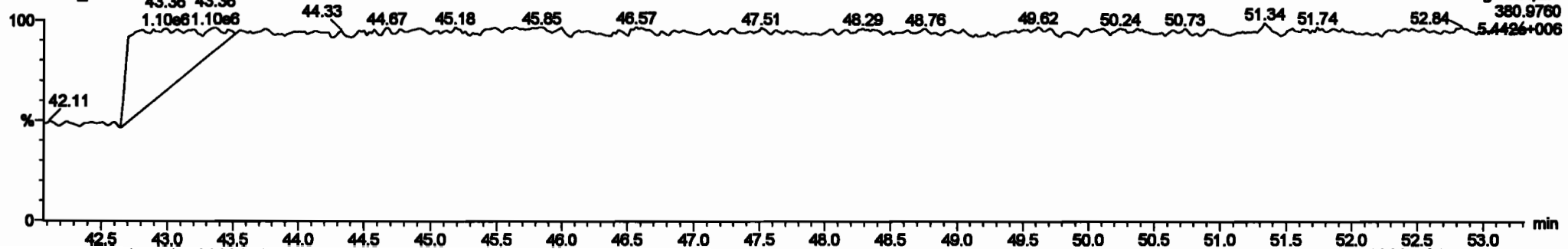


200601K1\_1



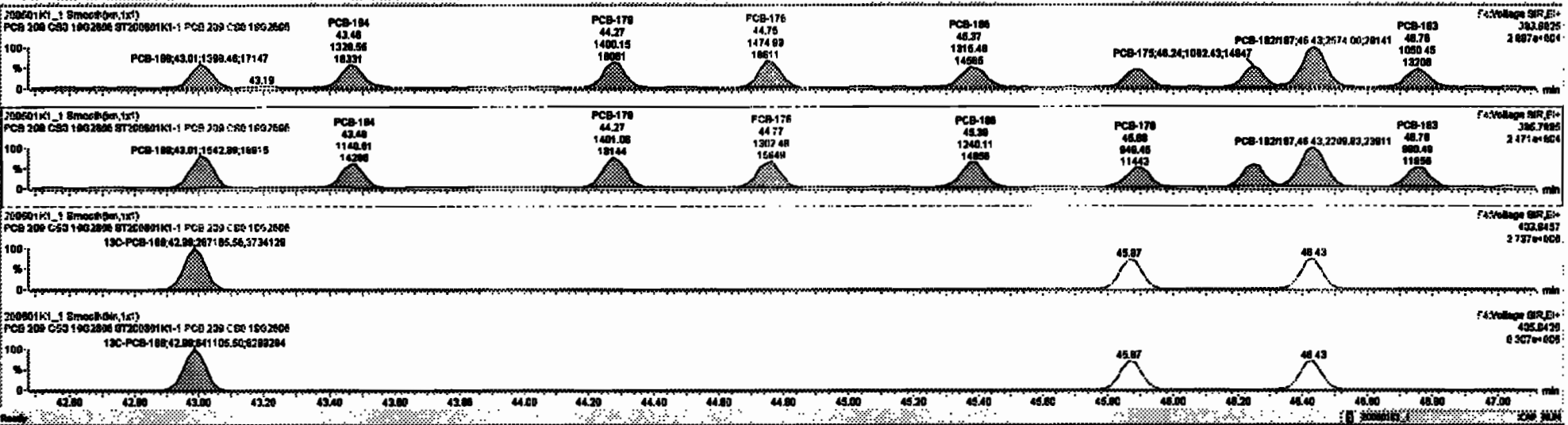
**PFK4c**

200601K1\_1



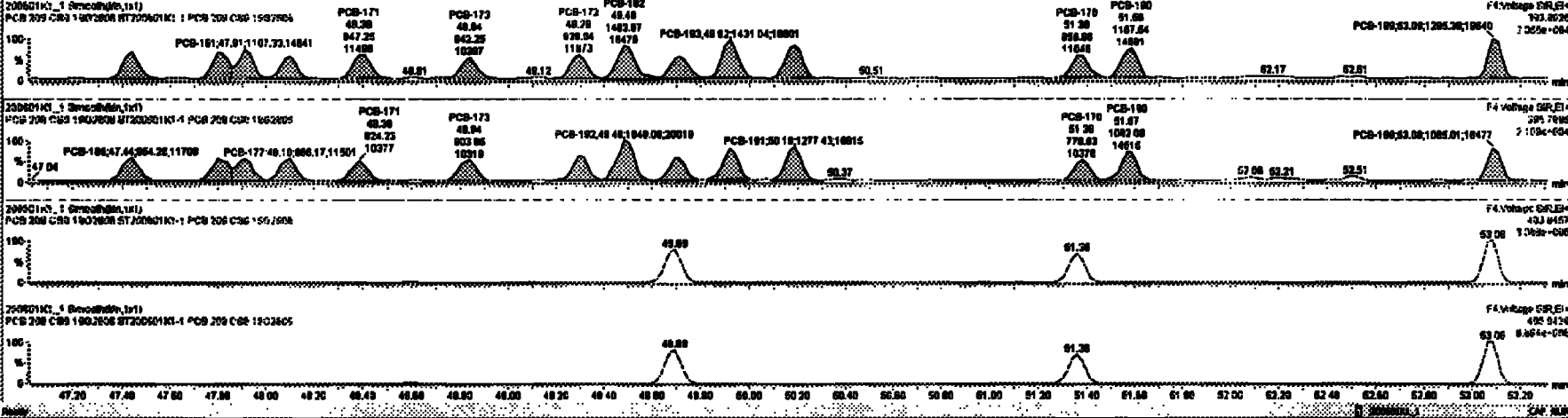
Sample	PCB	Concentration	Limit	Ratio	Pass/Fail	Notes
227	2nd Function TH-PCBs	0.9628	1.000	0.00	0.000	NO 3.880 0.181 3.880
228	Total Toluene-PCBs	1.0779	1.000	0.00	0.000	NO 0.917 0.397 0.917
229	2nd Function Para-PCBs	1.3157	1.000	0.00	0.000	NO 0.880 0.319 0.880
230	4th Function Para-PCBs	1.0735	1.000	0.00	0.000	NO 1.148 0.880 1.148
231	2nd Function Meta-PCBs	0.8505	1.000	0.00	0.000	NO 3.400 0.109 3.400
232	4th Function Meta-PCBs	1.0318	1.000	0.00	0.000	NO 0.431 0.180 0.431
233	Total PCBs	1.3851	1.000	0.00	0.000	NO 2.000 0.200 2.000
234	4th Function Ortho-PCBs	1.0008	1.000	0.00	0.000	NO 2.180 0.014 2.180
235	8th Function Ortho-PCBs	1.1488	1.000	0.00	0.000	NO 0.7210 0.0897 0.7210
236	Total Mono-PCBs	0.9523	1.000	0.00	0.000	NO 0.7181 0.0523 0.7181
237	Dioxin-CB	0.8994	1.000	0.00	0.000	NO 0.2989 0.08829 0.2989
238	Total PCBs					

Sample	PCB	Concentration	Limit	Ratio	Pass/Fail	Notes
131	PCB-188	43.03	43.01	1.359e3	1.590e3	1.000 0.91 NO 0.24800 0.24800
132	PCB-184	43.48	43.48	1.259e3	1.141e3	1.000 1.18 NO 0.21500 0.21500
133	PCB-178	44.27	44.27	1.490e3	1.891e3	1.000 1.00 NO 0.23200 0.23200
134	PCB-176	44.74	44.75	1.478e3	1.302e3	1.000 1.13 NO 0.22800 0.22800
135	PCB-186	45.38	45.37	1.218e3	1.240e3	1.000 1.05 NO 0.20700 0.20715
136	PCB-178	45.80	45.88	1.028e3	0.485e3	1.000 1.78 NO 0.22700 0.22708
137	PCB-176	46.24	46.24	1.882e3	1.088e3	1.000 1.01 NO 0.24200 0.24240
138	PCB-182/187	46.42	46.43	2.574e3	2.210e3	1.000 1.15 NO 0.48300 0.48337
139	PCB-183	46.78	46.78	1.550e3	0.828e3	1.000 1.07 NO 0.21400 0.21381



Name	Mass	Area	Yield	Yield	Yield	Yield	Yield	Yield	Yield	Yield	Yield	Yield	Yield
237 Shell Function Tri-PCBs	0.0028	1.000	0.00	0.000	NO	3.000	0.191	3.000					
238 Total Tetra-PCBs	1.0770	1.000	0.00	0.000	NO	0.017	0.207	0.017					
239 Shell Function Penta-PCBs	1.3167	1.000	0.00	0.000	NO	0.000	0.310	0.000					
240 4th Function Penta-PCBs	1.0720	1.000	0.00	0.000	NO	1.140	0.000	1.140					
241 Shell Function Hexa-PCBs	0.0000	1.000	0.00	0.000	NO	3.000	0.100	3.000					
242 4th Function Hexa-PCBs	1.0010	1.000	0.00	0.000	NO	0.001	0.100	0.001					
243 Total Hepta-PCBs	1.0000	1.000	0.00	0.000	NO	0.000	0.100	0.000					
244 4th Function Octa-PCBs	1.0000	1.000	0.00	0.000	NO	2.100	0.0714	2.100					
245 6th Function Octa-PCBs	1.1400	1.000	0.00	0.000	NO	0.7210	0.0007	0.7210					
246 Total Nona-PCBs	0.0023	1.000	0.00	0.000	NO	0.7100	0.0000	0.7100					
247 Deca-CB	0.0004	1.000	0.00	0.000	NO	0.2000	0.0000	0.2000					
248 Total PCBs													

Name	Mass	Area	Yield	Yield	Yield	Yield	Yield	Yield	Yield
131 PCB-100	49.00	49.01	1.00e3	1.00e3	1.000	0.01	NO	0.2400	0.24000
132 PCB-104	49.40	49.40	1.30e3	1.51e3	1.000	1.10	NO	0.2100	0.21000
133 PCB-170	44.27	44.27	1.40e3	1.40e3	1.000	1.00	NO	0.2000	0.20000
134 PCB-170	44.74	44.75	1.47e3	1.20e3	1.000	1.13	NO	0.2200	0.22000
135 PCB-100	48.30	48.30	1.31e3	1.29e3	1.000	1.00	NO	0.2070	0.20710
136 PCB-170	48.80	48.80	1.00e3	0.80e3	1.000	1.00	NO	0.2070	0.20700
137 PCB-170	48.24	48.24	1.00e3	1.00e3	1.000	1.01	NO	0.2400	0.24000
138 PCB-100/07	48.43	48.43	2.07e3	2.21e3	1.000	1.10	NO	0.4000	0.40000
139 PCB-100	48.70	48.70	1.00e3	0.80e3	1.000	1.07	NO	0.2140	0.21400





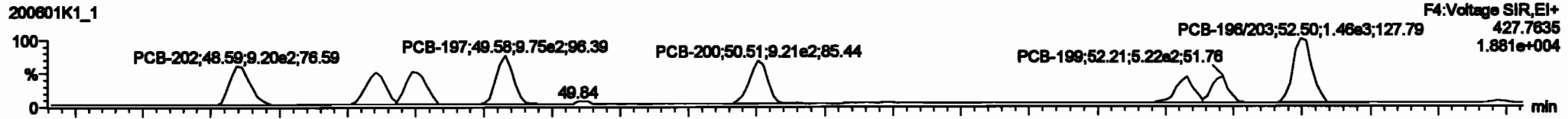
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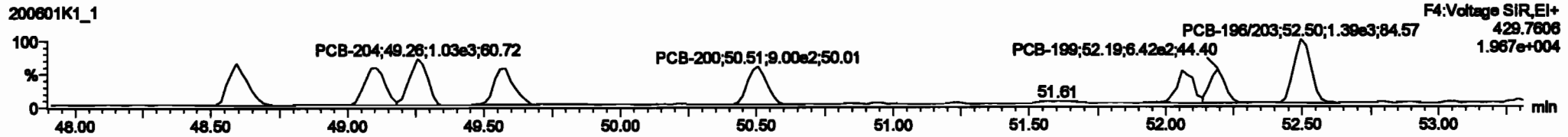
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PCB-202

200601K1\_1

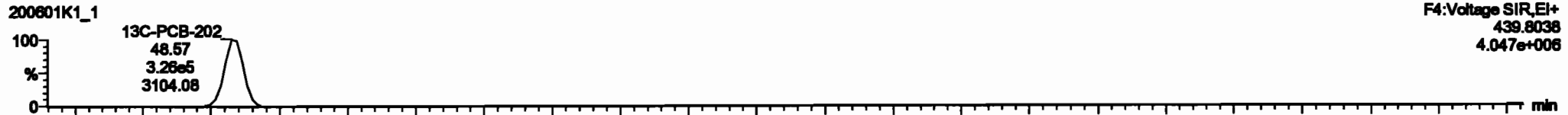


200601K1\_1

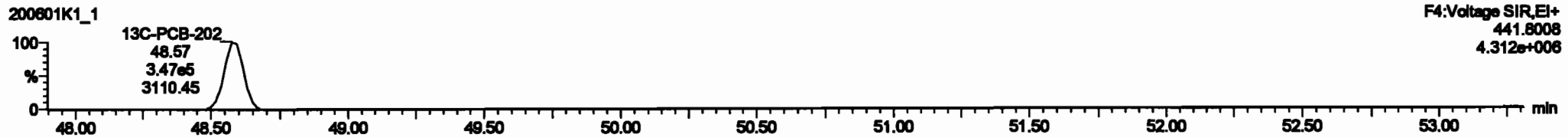


13C-PCB-202

200601K1\_1

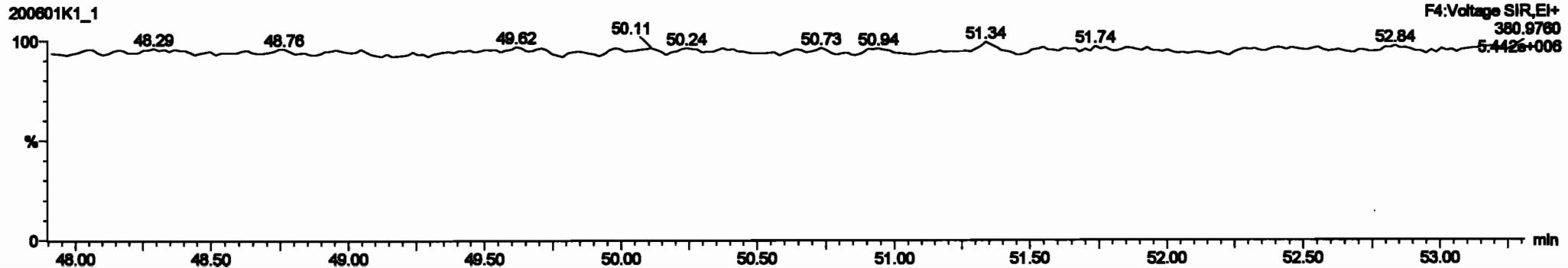


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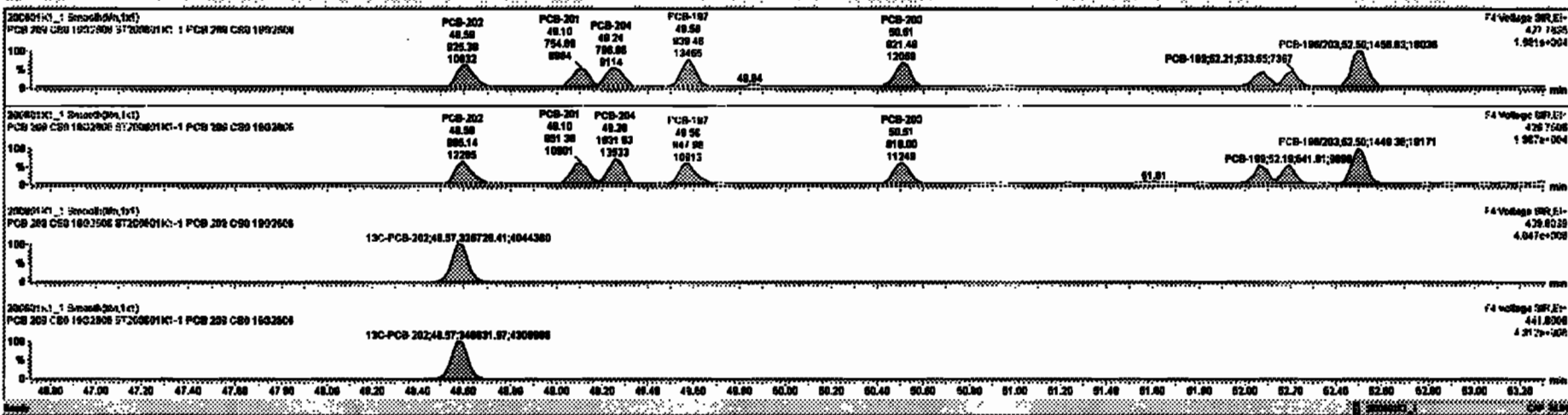
PFK4d

200601K1\_1



Item	Description	QTY	UNIT	PRICE	TOTAL	TAX	NET	DISC	AMT	NET	TAX	TOTAL
227	3rd Function Tr-PCBs			0.0000	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
228	Total Trns-PCBs			1.0770	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
229	3rd Function Parts-PCBs			1.2107	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
230	4th Function Parts-PCBs			1.2735	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
231	3rd Function Hous-PCBs			0.8885	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
232	4th Function Hous-PCBs			1.8910	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
233	Total Hous-PCBs			1.3891	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
234	5th Function Ods-PCBs			1.1489	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
235	Total Mem-PCBs			0.8823	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
237	Diagn-CD			0.8894	1.000	0.00	0.000	NO	0.000	0.000	0.00	0.000
238	Total PCBs											

Item	Description	QTY	UNIT	PRICE	TOTAL	TAX	NET	DISC	AMT	NET	TAX	TOTAL
184	PCB-202	48.81	48.80	0.264e2	0.891e2	0.00	0.891	NO	0.24500	0.24480	0.00	0.24480
185	PCB-201	48.89	48.10	7.847e2	0.314e2	0.00	0.78	NO	0.24100	0.24103	0.00	0.24103
186	PCB-204	48.24	48.24	7.888e2	1.232e2	0.00	0.77	NO	0.23800	0.23841	0.00	0.23841
187	PCB-197	48.89	48.89	0.289e2	0.480e2	0.00	0.89	NO	0.24800	0.24784	0.00	0.24784
188	PCB-200	80.48	80.81	0.218e2	0.180e2	0.00	1.80	NO	0.28800	0.28875	0.00	0.28875
189	PCB-198	82.08	82.08	1.483e2	0.728e2	0.00	0.81	NO	0.22800	0.22888	0.00	0.22888
190	PCB-199	82.17	82.21	0.208e2	0.411e2	0.00	0.88	NO	0.21800	0.21804	0.00	0.21804
191	PCB-198-000	82.08	82.88	1.483e2	1.488e2	0.00	1.80	NO	0.81800	0.81884	0.00	0.81884



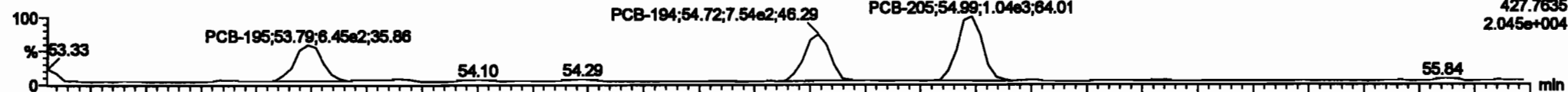
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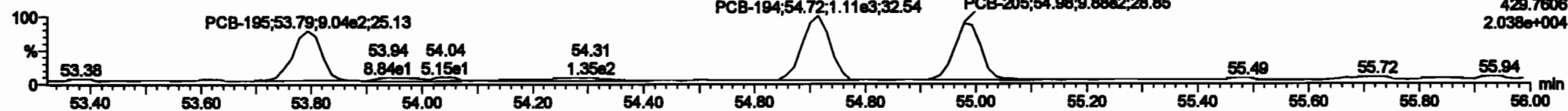
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**PCB-195**

200601K1\_1

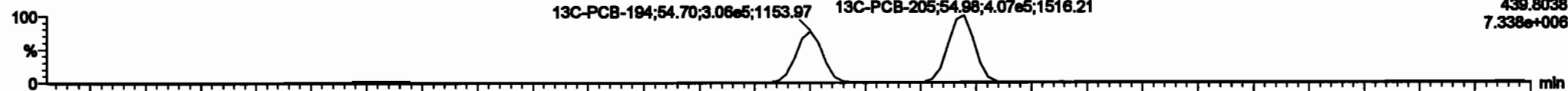


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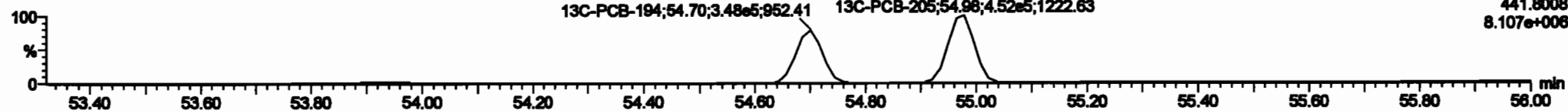


**13C-PCB-194**

200601K1\_1

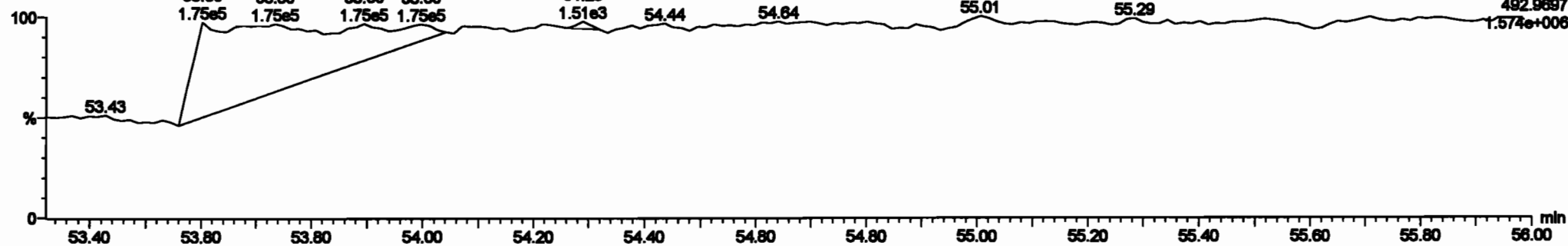


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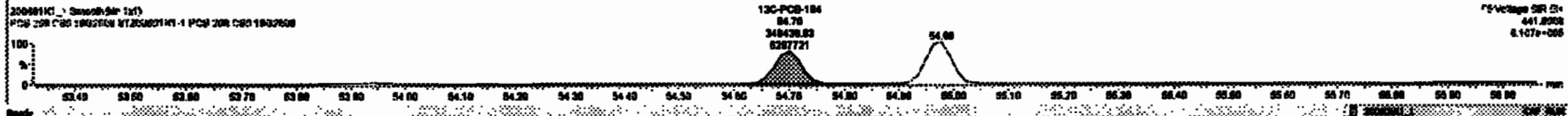
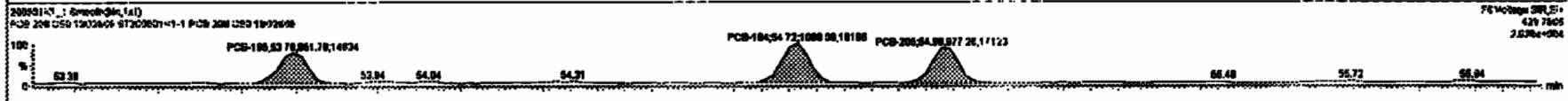
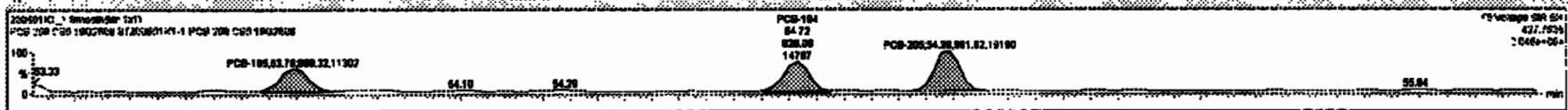
**PFK5a**

200601K1\_1



Sample	Mass	Area	Height	Retention	Peak	Area	Height	Retention	Area
227 2nd Function PA-PCBs		0.0020	1.000	0.00	0.000	NO	3.000	0.101	2.000
228 1st Function PCBs		1.0776	1.000	0.00	0.000	NO	0.017	0.207	0.017
229 2nd Function PCBs		1.0767	1.000	0.00	0.000	NO	0.000	0.210	0.000
230 4th Function PCBs		1.0776	1.000	0.00	0.000	NO	1.140	0.0030	1.140
231 2nd Function Hexa-PCBs		0.0000	1.000	0.00	0.000	NO	3.400	0.100	3.400
232 4th Function Hexa-PCBs		1.0010	1.000	0.00	0.000	NO	0.401	0.100	0.401
233 Total Hepta-PCBs		1.0001	1.000	0.00	0.000	NO	6.000	0.200	6.000
234 4th Function Octa-PCBs		1.0000	1.000	0.00	0.000	NO	2.100	0.0114	2.100
235 Total PCBs		1.0776	1.000	0.00	0.000	NO	1.140	0.0030	1.140
236 Total Hexa-PCBs		0.0020	1.000	0.00	0.000	NO	0.101	0.0030	0.101
237 Deca-CB		0.0004	1.000	0.00	0.000	NO	0.200	0.00030	0.200
238 Total PCBs									

Peak	Area	Height	Retention	Peak	Area	Height	Retention		
100 PCB-106	63.80	63.70	0.000e+00	0.017e+02	0.000	0.01	NO	0.20000	0.20044
101 PCB-104	64.72	64.72	0.201e+05	1.000e+03	0.000	0.70	NO	0.20000	0.20022
104 PCB-205	64.80	64.80	0.010e+02	0.770e+02	0.000	1.01	NO	0.20000	0.20002



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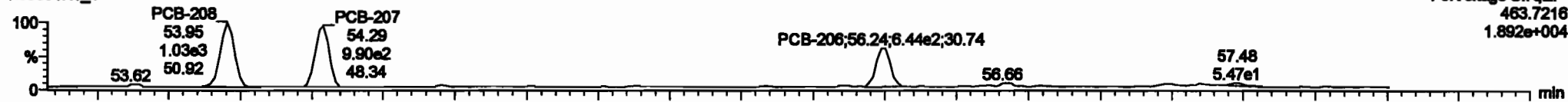
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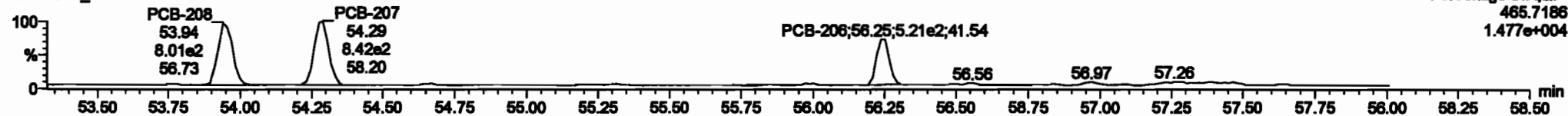
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**PCB-208**

200601K1\_1

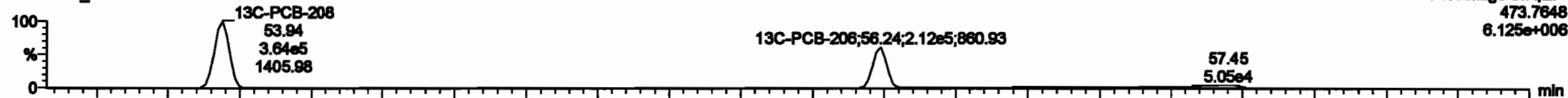


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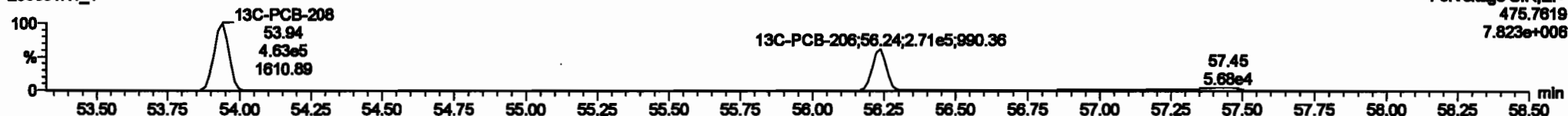


**13C-PCB-208**

200601K1\_1

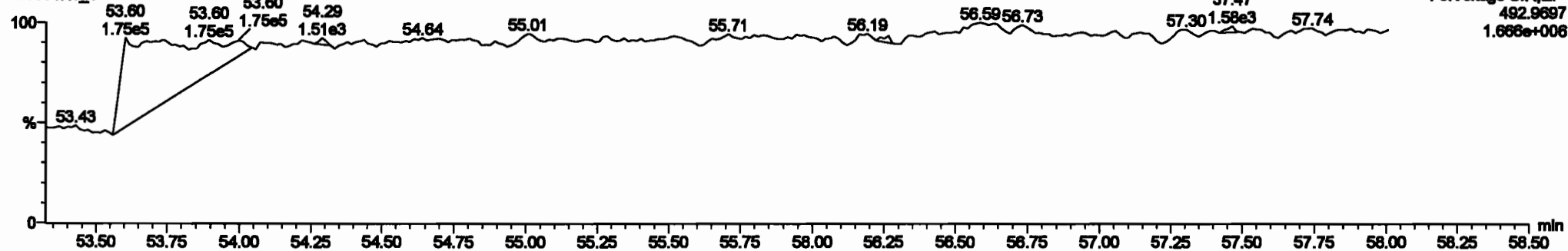


200601K1\_1



**PFK5**

200601K1\_1



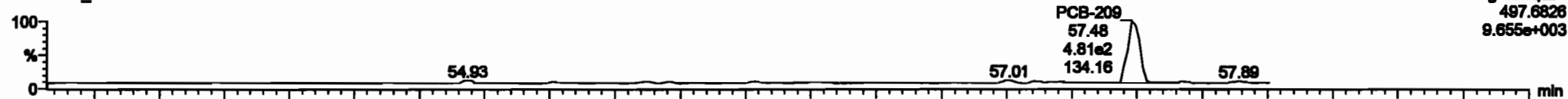
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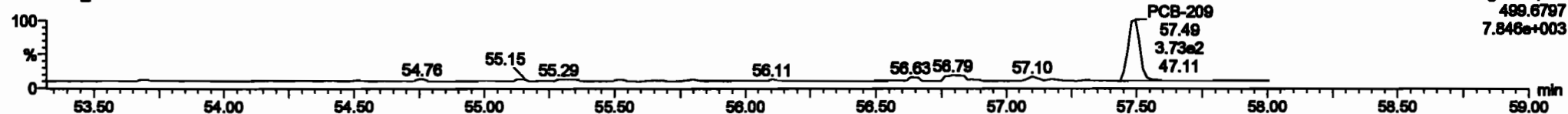
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**PCB-209**

200601K1\_1

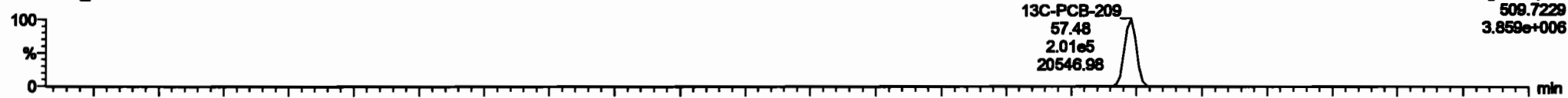


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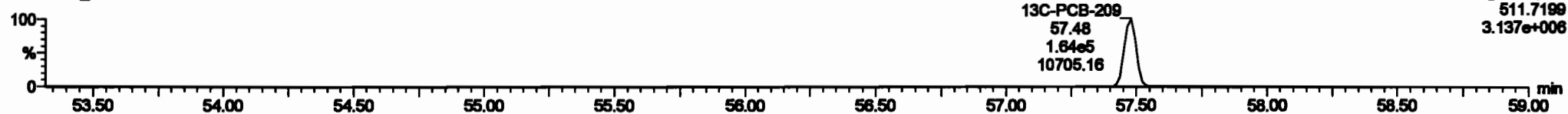


**13C-PCB-209**

200601K1\_1



200601K1\_1



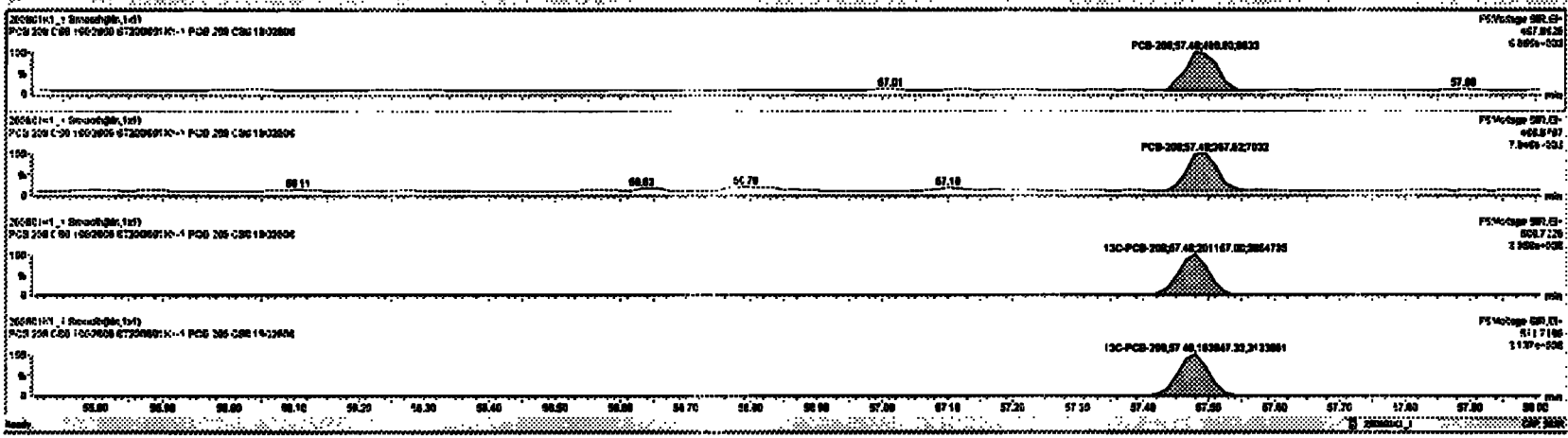
**PFK5b**

200601K1\_1



Item	QTY	UNIT	PRICE	TOTAL	TAX	NET	TOTAL	TAX	NET	
227 2nd Purvision 1st PCBs			0.0000	1.0000	0.00	0.0000	ND	3.0000	0.191	3.0000
228 Total 1st PCBs			1.0000	1.0000	0.00	0.0000	ND	0.0017	0.287	0.0117
229 2nd Purvision 2nd PCBs			1.9187	1.0000	0.00	0.0000	ND	0.0000	0.210	0.0000
230 4th Purvision 2nd PCBs			1.0735	1.0000	0.00	0.0000	ND	1.140	0.0000	1.140
231 2nd Purvision 3rd PCBs			0.0000	1.0000	0.00	0.0000	ND	3.0000	0.100	3.000
232 4th Purvision 3rd PCBs			1.0010	1.0000	0.00	0.0000	ND	0.001	0.100	0.401
233 Total 3rd PCBs			1.0010	1.0000	0.00	0.0000	ND	0.000	0.200	0.000
234 4th Purvision 4th PCBs			1.0000	1.0000	0.00	0.0000	ND	2.100	0.014	2.100
235 8th Purvision 4th PCBs			1.4000	1.0000	0.00	0.0000	ND	0.7010	0.0007	0.7010
236 Total 4th PCBs			0.0000	1.0000	0.00	0.0000	ND	0.7000	0.0000	0.7000
237 Total PCBs										

400 PCB 200	07.40	07.40	4.0000	3.0000	1.70	1.20	ND	0.2000	0.2000
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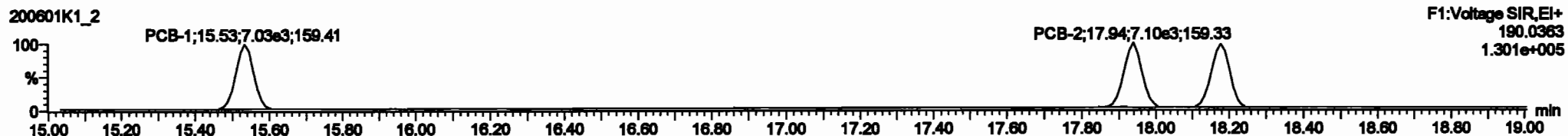


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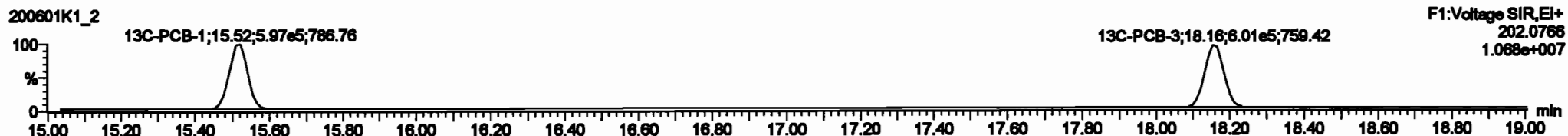
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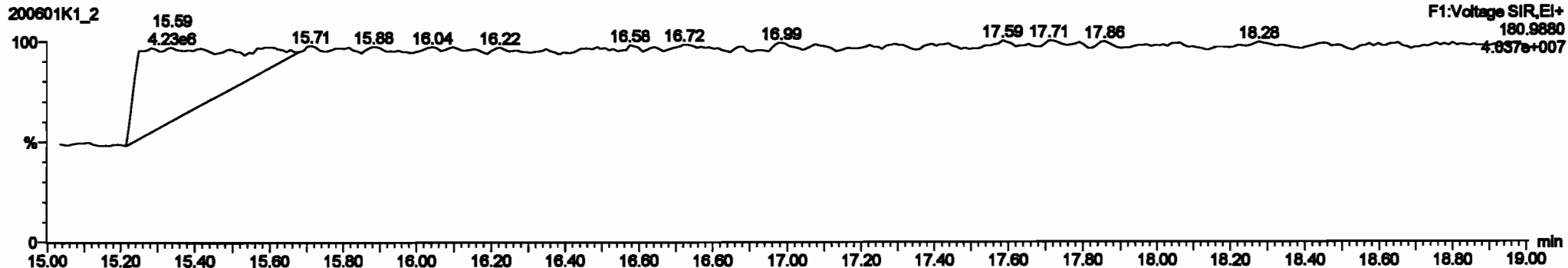
**PCB-1**



**13C-PCB-1**



**PFK1**



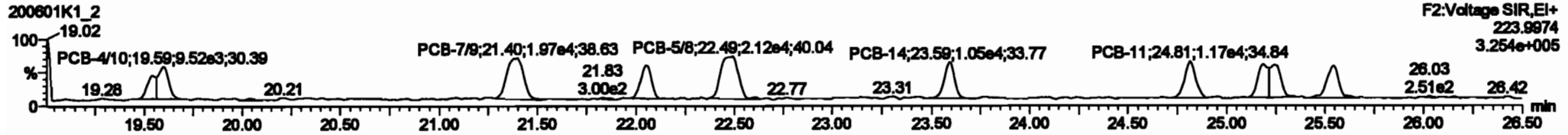
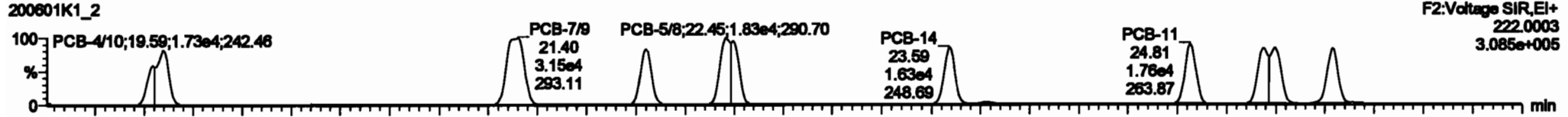


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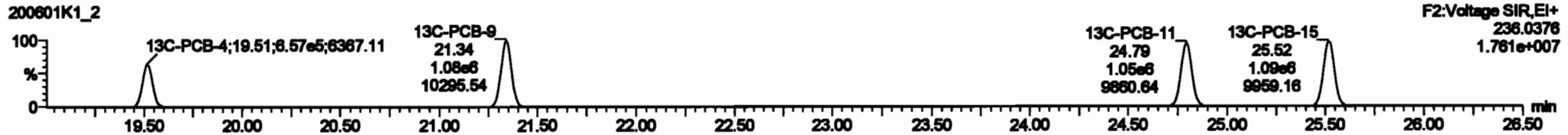
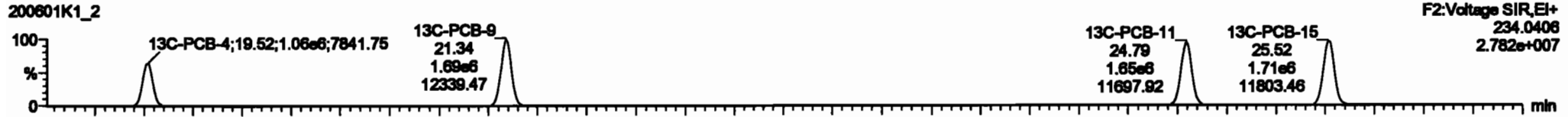
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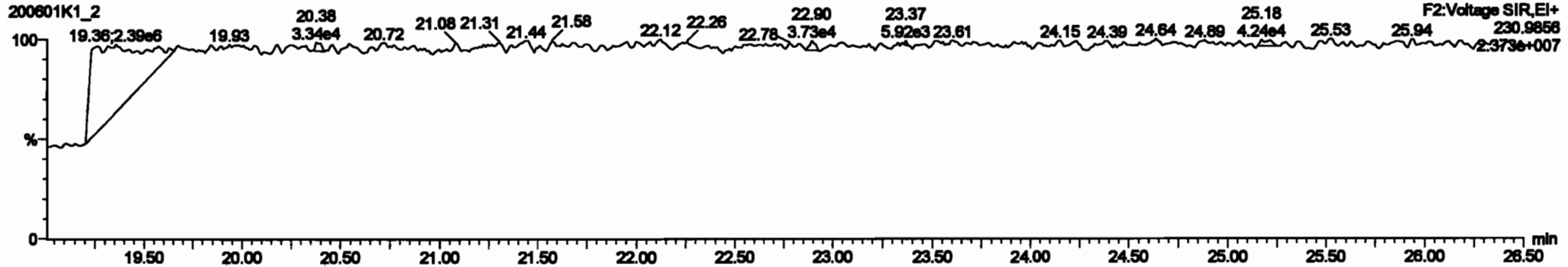
**PCB-4/10**



**13C-PCB-4**

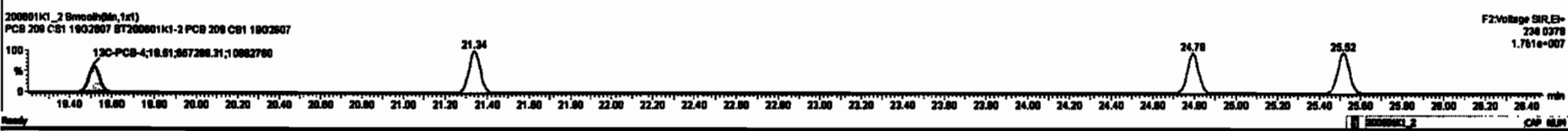
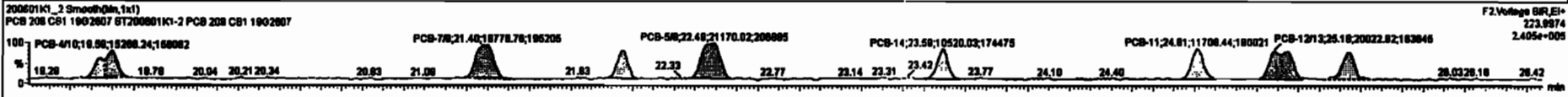
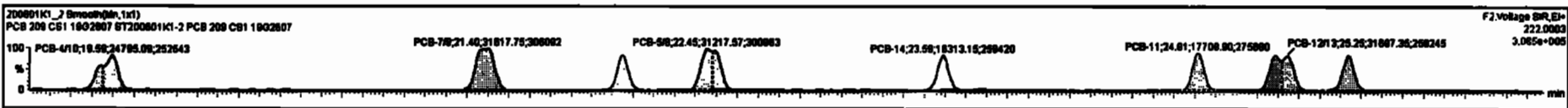


**PFK2a**



#	Name	Range	RA	Qty	Unit	ProdRate	WT	ProdRate	WT	ProdRate	WT	ProdRate	WT	ProdRate	WT	ProdRate	WT	ProdRate	WT
223	13C-PCB-178	7.18e6	0.45	NO	1.0000	1.000	46.87	46.87	0.823	0.823	NO	104.2	104	0.8272					
224	Total Mono-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	2.884		0.0206	2.884				
225	Total Di-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	7.832		0.0852	7.832				
226	2nd Function Tri-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	15.71		0.201	15.71				
227	2nd Function Tetra-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	40.38		0.382	40.38				
228	Total Tetra-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	38.87		0.570	38.87				
229	2nd Function Penta-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	4.785		0.0713	4.785				
230	4th Function Penta-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	13.32		0.120	13.32				
231	2nd Function Hexa-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	28.45		0.302	28.45				
232	4th Function Hexa-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	23.19		0.230	23.19				
233	Total Hexa-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	0.216		0.0785	0.216				
234	4th Function Octa-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO								

#	Name	ProdRate	WT	est Range	est Range	* Ratio (Prod)	RA	Qty	Unit	ProdRate	WT	ProdRate	WT
1	4 PCB-478	18.80	18.80	2.480e4	1.527e4	1.580	1.82	NO	1.8710	1.8710			
2	6 PCB-78	21.40	21.40	3.182e4	1.878e4	1.580	1.80	NO	1.8880	1.8880			
3	8 PCB-8	22.08	22.08	1.817e4	1.806e4	1.580	1.81	NO	0.82800	0.82812			
4	7 PCB-64	22.48	22.48	3.122e4	2.117e4	1.580	1.40	NO	1.8070	1.8088			
5	8 PCB-14	23.80	23.80	1.821e4	1.852e4	1.580	1.58	NO	0.87700	0.87678			
6	9 PCB-11	24.81	24.81	1.771e4	1.171e4	1.580	1.81	NO	0.88700	0.88713			
7	10 PCB-13/13	25.25	25.25	3.170e4	2.002e4	1.580	1.58	NO	1.8880	1.8885			
8	11 PCB-15	25.80	25.80	1.829e4	1.091e4	1.580	1.58	NO	0.86400	0.86281			



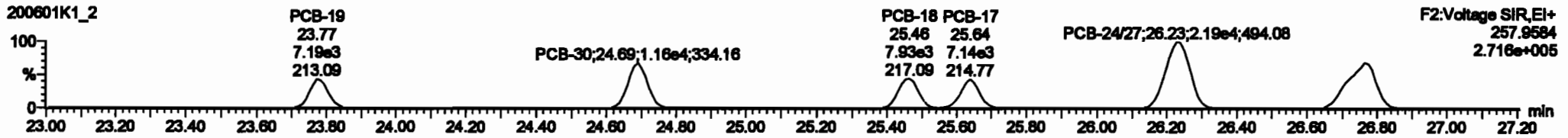
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time

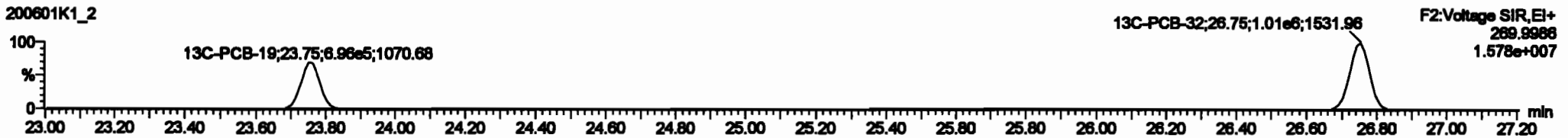
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Name: 200601K1\_2, Date: 01-Jun-2020, Time: 13:18:19, ID: ST200601K1-2 PCB 209 CS1 19G2607, Description: PCB 209 CS1 19G2607

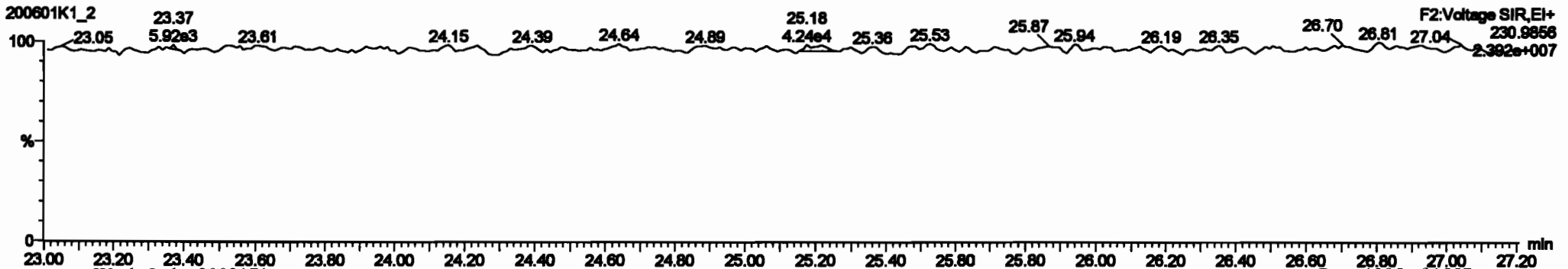
**PCB-19**



**13C-PCB-19**

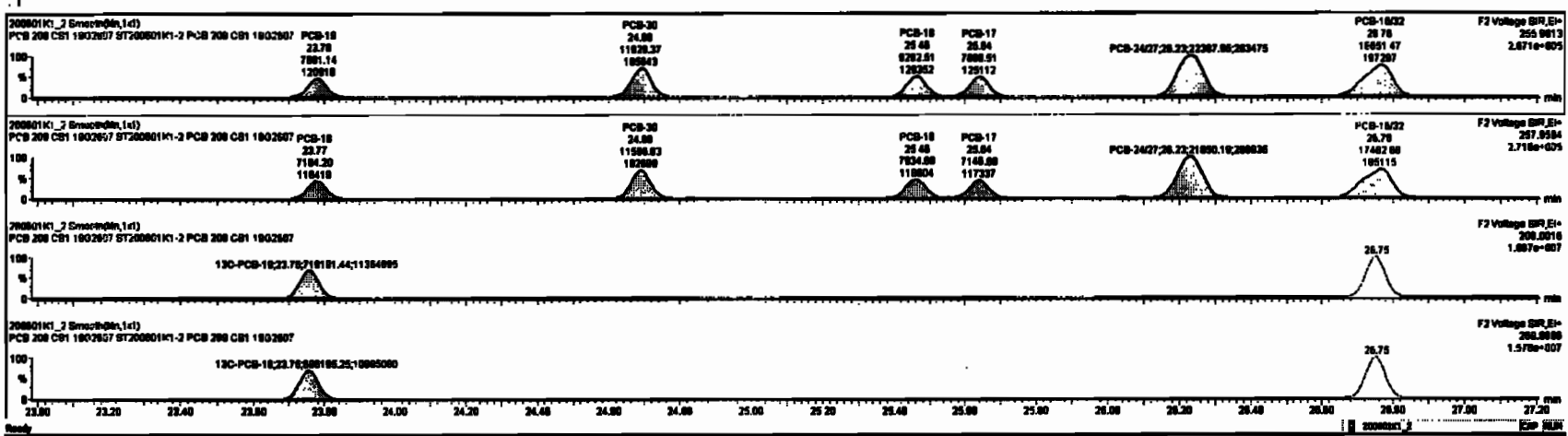


**PFK2b**



#	Name	Step	RA	RY	RFY	Offset	Height	SE	PeakA	RTY	RTY Pk	Comp	Width	Area	Height
223	13C-PCB-170	7.50us	0.40	ND	1.0000	1.000	46.07	0.023	0.023	ND	104.2	104	0.0072	0.0072	0.0072
224	Total Mono-PCBs				1.0000	1.000	0.00	0.000	0.000	ND	2.004	2.004	0.0000	2.004	0.0000
225	Total Di-PCBs				1.0000	1.000	0.00	0.000	0.000	ND	11.30	11.30	0.0000	11.30	0.0000
226	Total Tri-PCBs				1.0000	1.000	0.00	0.000	0.000	ND	0.000	0.000	0.0000	0.000	0.0000
227	2nd Purition Tri-PCBs				0.0000	1.000	0.00	0.000	0.000	ND	10.71	10.71	0.0000	10.71	0.0000
228	Total Mono-PCBs				1.0000	1.000	0.00	0.000	0.000	ND	40.20	40.20	0.0000	40.20	0.0000
229	2nd Purition Mono-PCBs				1.0000	1.000	0.00	0.000	0.000	ND	30.67	30.67	0.0000	30.67	0.0000
230	4th Purition Mono-PCBs				1.0000	1.000	0.00	0.000	0.000	ND	4.700	4.700	0.0000	4.700	0.0000
231	2nd Purition Mono-PCBs				0.0000	1.000	0.00	0.000	0.000	ND	13.33	13.33	0.0000	13.33	0.0000
232	4th Purition Mono-PCBs				1.0000	1.000	0.00	0.000	0.000	ND	20.40	20.40	0.0000	20.40	0.0000
233	Total Mono-PCBs				1.0000	1.000	0.00	0.000	0.000	ND	35.16	35.16	0.0000	35.16	0.0000
234	4th Purition Mono-PCBs				1.0000	1.000	0.00	0.000	0.000	ND	0.215	0.215	0.0000	0.215	0.0000

#	Name	PeakA	RTY	RTY Pk	Offset	Height	SE	PeakA	RTY	RTY Pk	Comp
1	13 PCB-18	23.70	23.70	7.00us	7.10us	1.000	1.00	ND	0.0000	0.0000	0.0000
2	13 PCB-20	24.00	24.00	1.00us	1.00us	1.000	1.00	ND	0.0000	0.0000	0.0000
3	14 PCB-18	26.40	26.40	0.20us	7.00us	1.000	1.00	ND	0.0000	0.0000	0.0000
4	15 PCB-17	26.04	26.04	7.00us	7.50us	1.000	1.00	ND	0.0000	0.0000	0.0000
5	16 PCB-2407	26.20	26.20	2.50us	2.50us	1.000	1.00	ND	1.0000	1.0000	1.0000
6	17 PCB-1002	26.77	26.70	1.00us	1.70us	1.000	1.00	ND	1.0000	1.0000	1.0000

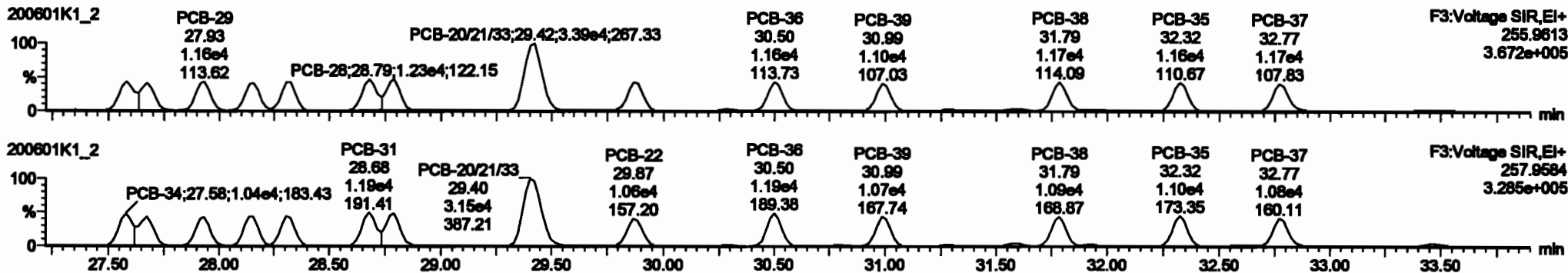


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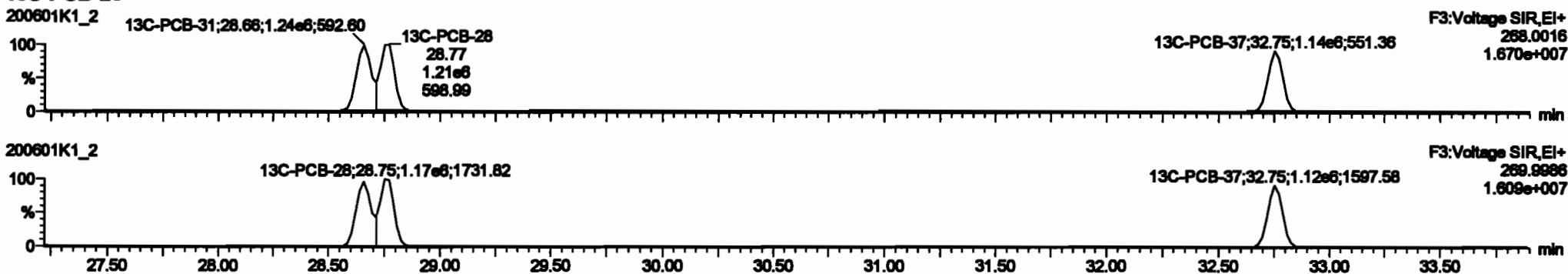
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 Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_2, Date: 01-Jun-2020, Time: 13:18:19, ID: ST200601K1-2 PCB 209 CS1 19G2607, Description: PCB 209 CS1 19G2607

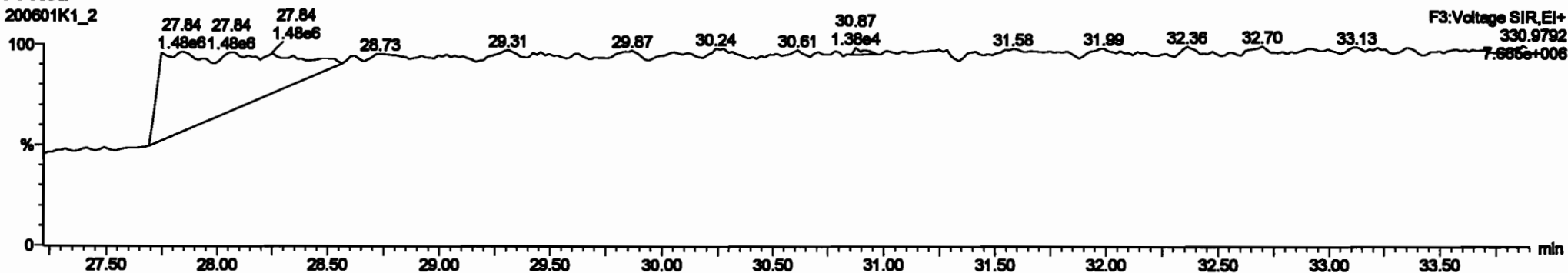
**PCB-34**



**13C-PCB-28**

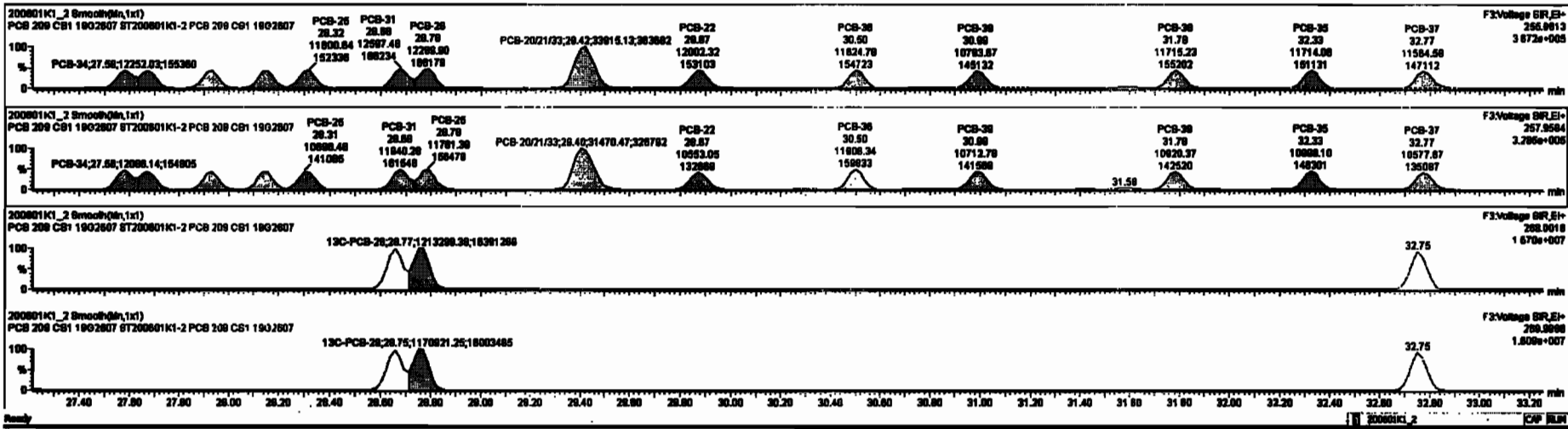


**PFK3d**



PCB	PCB-34	PCB-25	PCB-31	PCB-28	PCB-22	PCB-36	PCB-38	PCB-35	PCB-37	PCB-32
220	132	100	100	100	100	100	100	100	100	100
224	100	100	100	100	100	100	100	100	100	100
225	100	100	100	100	100	100	100	100	100	100
226	100	100	100	100	100	100	100	100	100	100
228	100	100	100	100	100	100	100	100	100	100
229	100	100	100	100	100	100	100	100	100	100
230	100	100	100	100	100	100	100	100	100	100
231	100	100	100	100	100	100	100	100	100	100
232	100	100	100	100	100	100	100	100	100	100
233	100	100	100	100	100	100	100	100	100	100
234	100	100	100	100	100	100	100	100	100	100

PCB	PCB-34	PCB-25	PCB-31	PCB-28	PCB-22	PCB-36	PCB-38	PCB-35	PCB-37	PCB-32
18	27.89	27.89	1.228e4	1.208e4	1.040	1.01	NO	1.0800	1.0788	
19	27.87	27.87	1.015e4	0.832e0	1.040	1.07	NO	0.83500	0.83318	
20	27.83	27.83	1.180e4	1.030e4	1.040	1.12	NO	1.0310	1.0313	
21	28.18	28.18	1.143e4	1.089e4	1.040	1.04	NO	0.88800	0.88880	
22	28.31	28.32	1.180e4	1.070e4	1.040	1.08	NO	0.88800	0.88485	
23	28.88	28.88	1.280e4	1.184e4	1.040	1.05	NO	0.88300	0.88318	
24	28.78	28.78	1.228e4	1.178e4	1.040	1.04	NO	0.89000	0.88418	
25	28.43	28.42	3.362e4	3.147e4	1.040	1.08	NO	2.9130	2.9138	
26	28.87	28.87	1.200e4	1.088e4	1.040	1.14	NO	0.87280	0.87243	



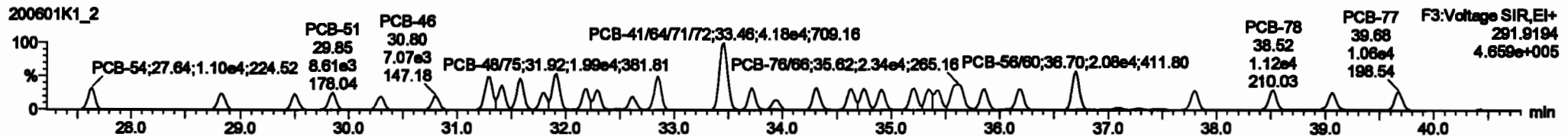
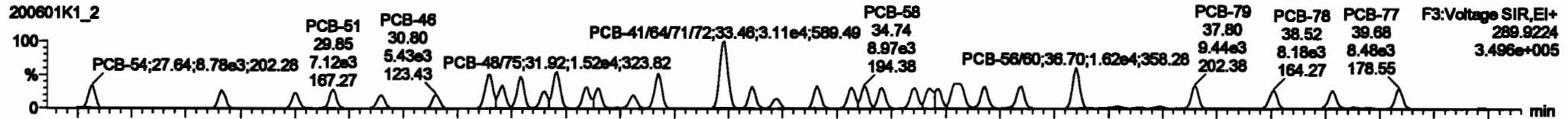
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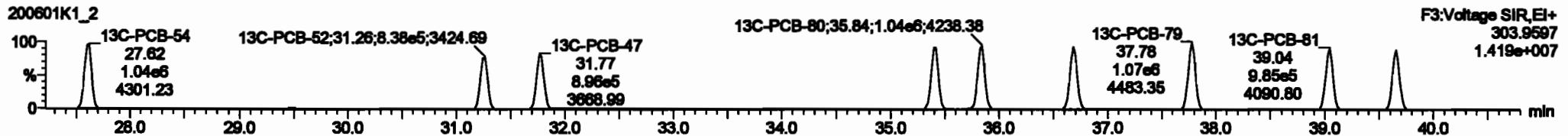
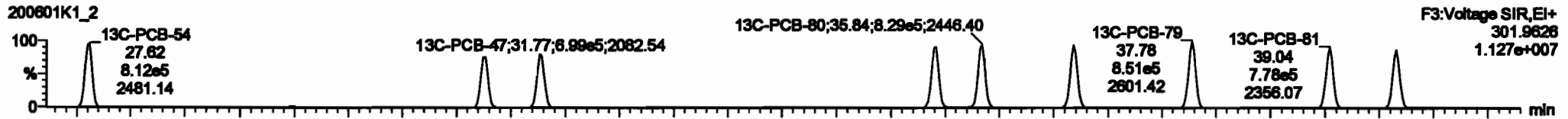
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Name: 200601K1\_2, Date: 01-Jun-2020, Time: 13:18:19, ID: ST200601K1-2 PCB 209 CS1 19G2607, Description: PCB 209 CS1 19G2607

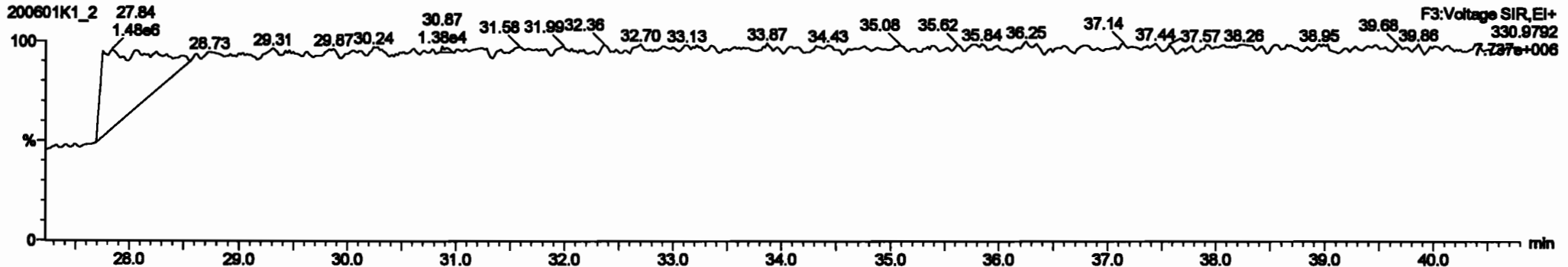
**PCB-54**



**13C-PCB-54**



**PFK3a**



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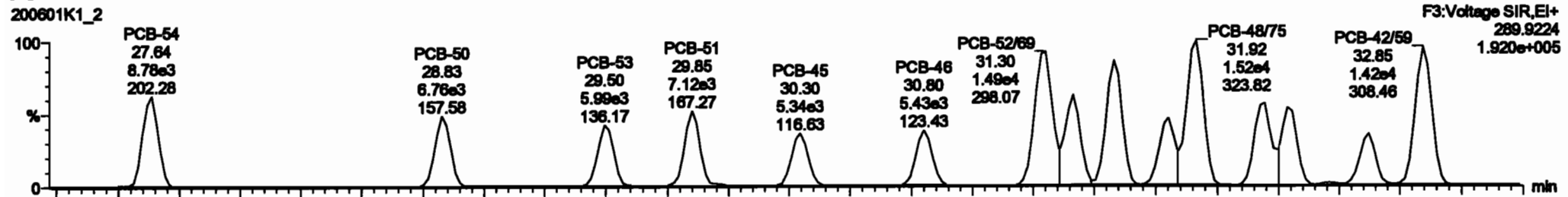
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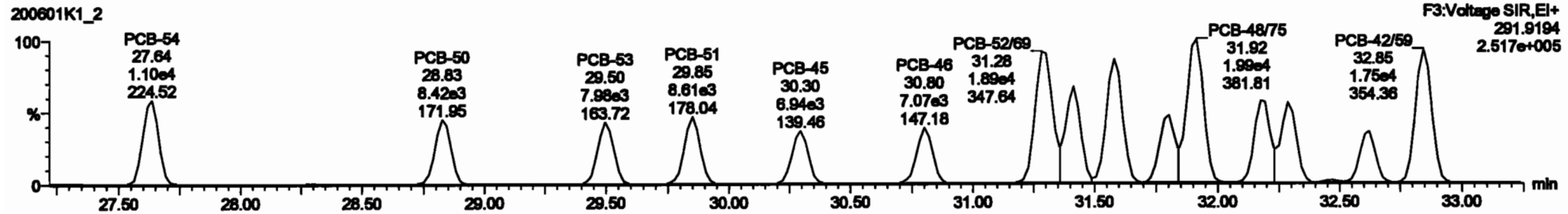
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PCB-50

200601K1\_2

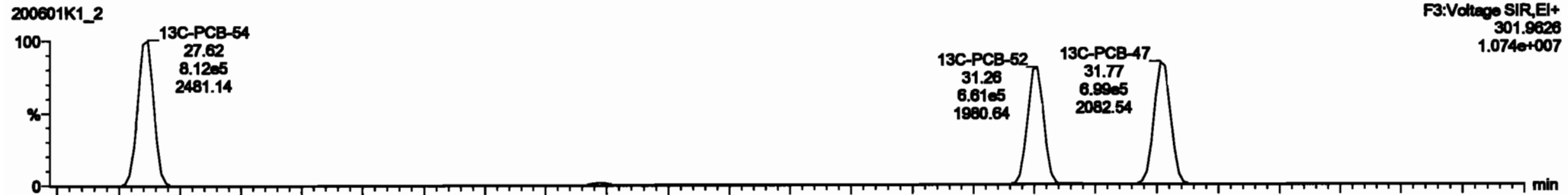


200601K1\_2

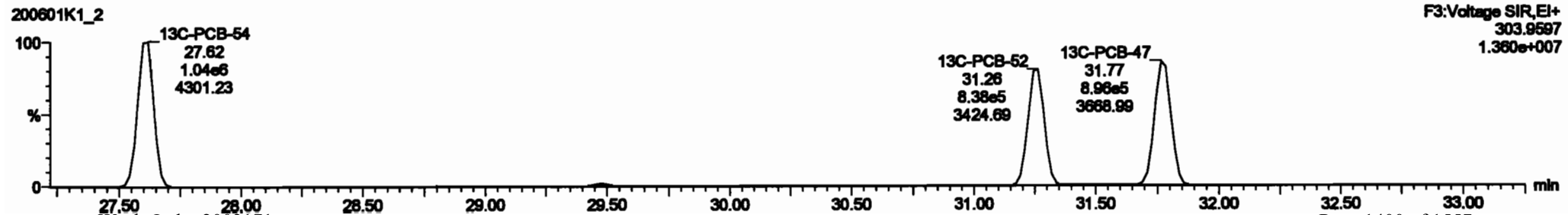


13C-PCB-52

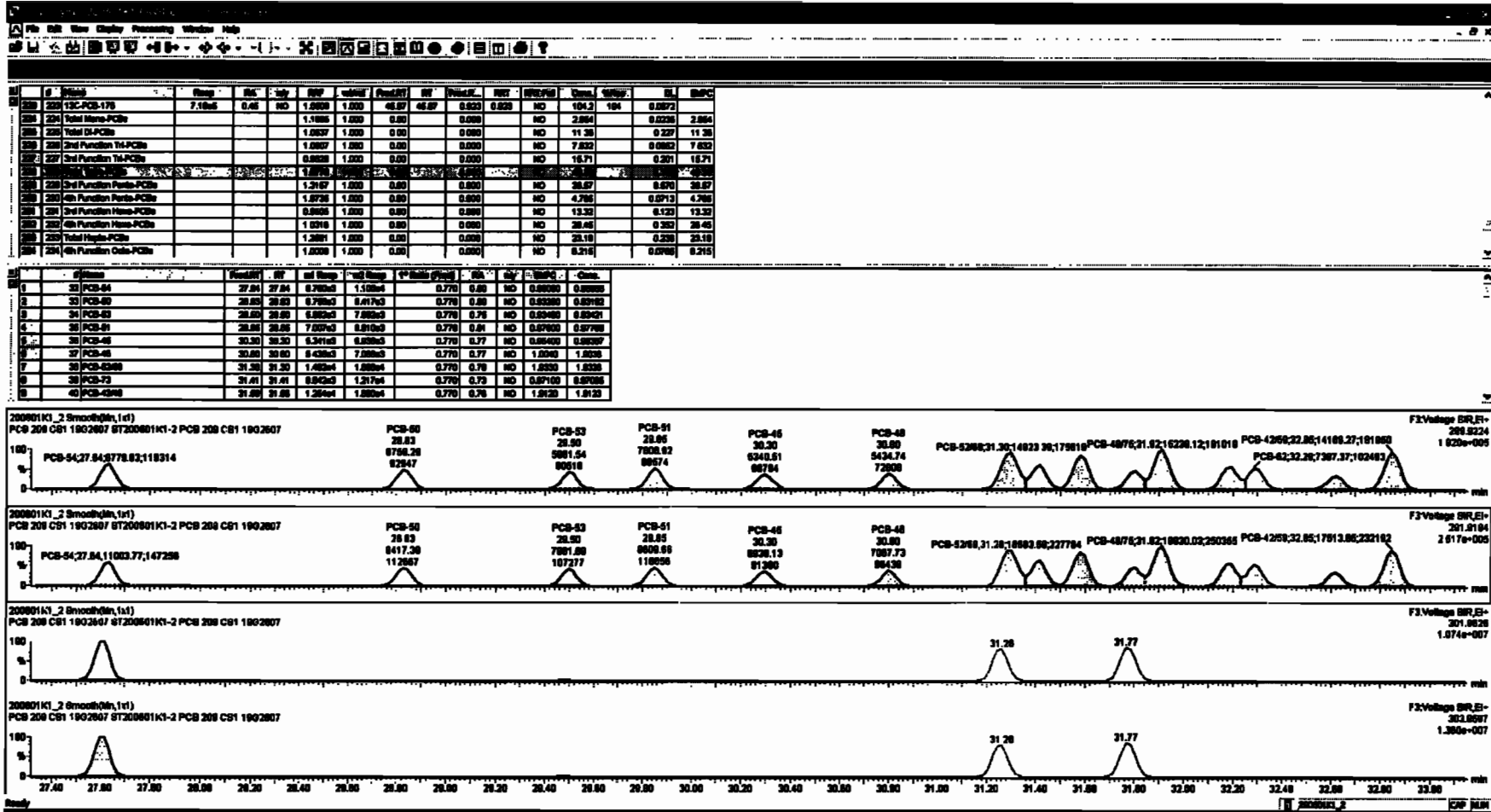
200601K1\_2



200601K1\_2







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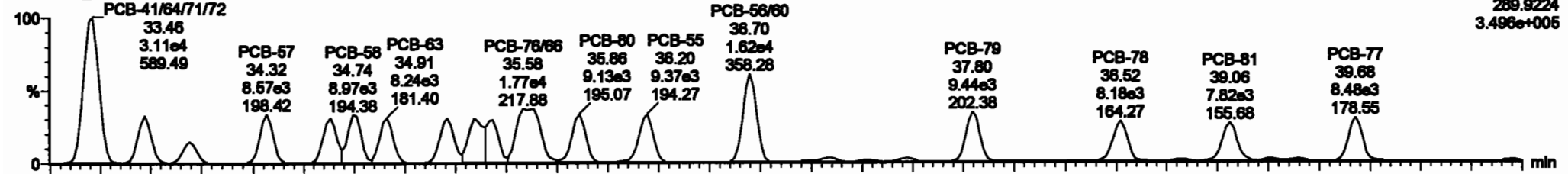
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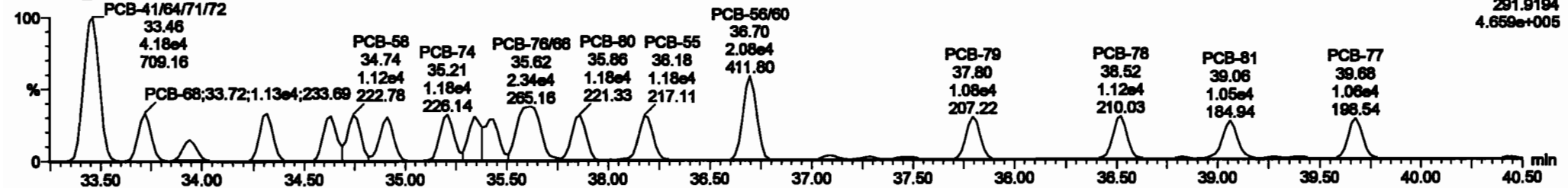
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PCB-68

200601K1\_2

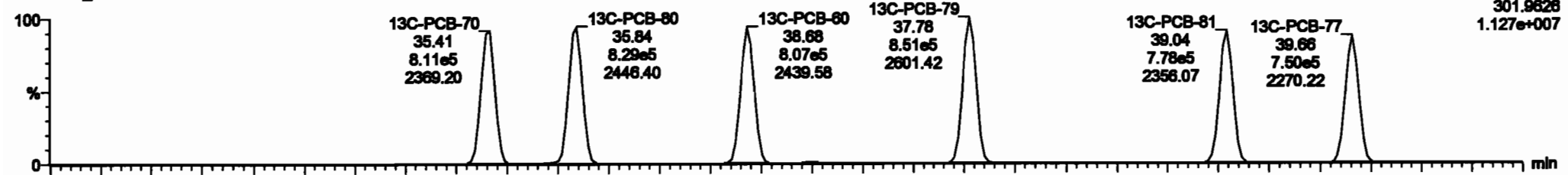


200601K1\_2

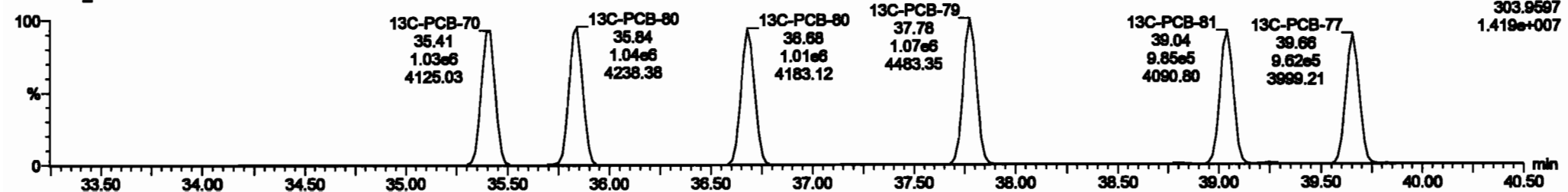


13C-PCB-60

200601K1\_2

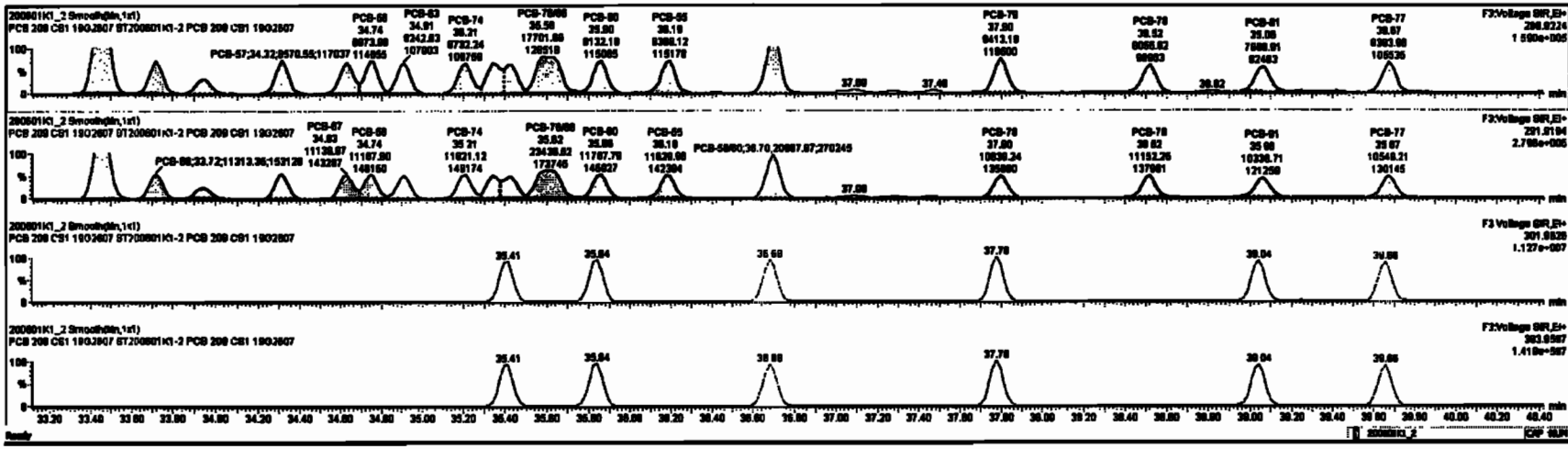


200601K1\_2



#	Material	Step	RA	Qty	RFV	Value	ProdID	ET	ProdID	RFV	RFV Full	Comp	Qty	SL	RFPC
220	13C-PCB-170	7.10nd	0.05	NO	1.0000	1.000	46.67	46.67	0.000	0.000	NO	104.3	104	0.0072	
221	Total Mono-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	2.884		0.0238	2.884
222	Total EL-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	11.38		0.227	11.38
223	2nd Function TM-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	7.800		0.0000	7.800
224	227 2nd Function TM-PCBs				0.0000	1.000	0.00	0.00	0.000	0.000	NO	15.71		0.201	15.71
225	228 2nd Function Penta-PCBs				1.2167	1.000	0.00	0.00	0.000	0.000	NO	38.67		0.870	38.67
226	229 4th Function Penta-PCBs				1.0726	1.000	0.00	0.00	0.000	0.000	NO	4.788		0.0713	4.788
227	231 2nd Function Hexa-PCBs				0.0000	1.000	0.00	0.00	0.000	0.000	NO	13.30		0.120	13.30
228	232 4th Function Hexa-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	38.48		0.380	38.48
229	233 Total Hexa-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	23.18		0.238	23.18
230	234 4th Function Octa-PCBs				1.0000	1.000	0.00	0.000	0.000	NO	8.918		0.0780	8.918	

#	Material	ProdID	ET	et Step	et Step	** (RFV Prod)	RA	Qty	RFPC	Comp
1	PCB-04	27.04	27.04	0.780nd	1.000nd	0.770	0.80	NO	0.00000	0.00000
2	PCB-05	28.00	28.00	0.780nd	0.497nd	0.770	0.80	NO	0.00000	0.00163
3	PCB-03	28.00	28.00	0.800nd	7.800nd	0.770	0.76	NO	0.00000	0.00021
4	PCB-01	28.00	28.00	7.000nd	0.010nd	0.770	0.81	NO	0.00000	0.00768
5	PCB-06	30.30	30.30	0.341nd	0.000nd	0.770	0.77	NO	0.00000	0.00007
6	PCB-08	30.00	30.00	0.430nd	7.000nd	0.770	0.77	NO	1.00000	1.00000
7	PCB-02000	31.20	31.20	1.400nd	1.000nd	0.770	0.78	NO	1.00000	1.00000
8	PCB-22	31.01	31.01	0.000nd	1.217nd	0.770	0.73	NO	0.00100	0.00000

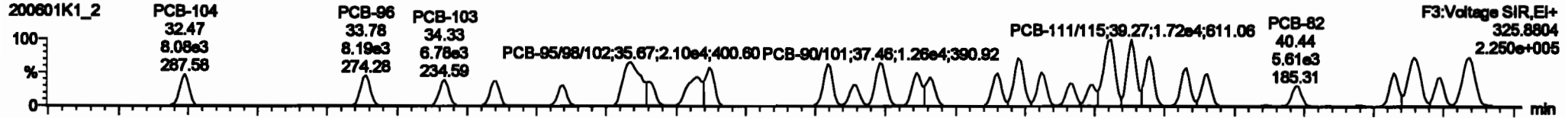


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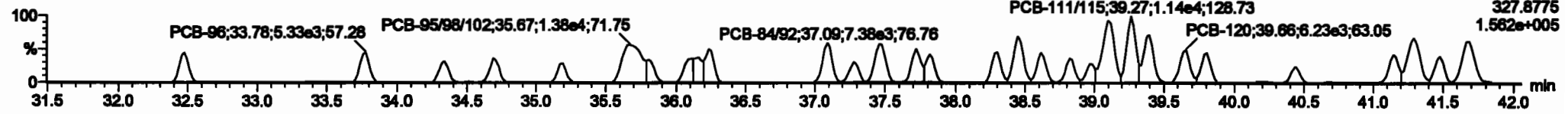
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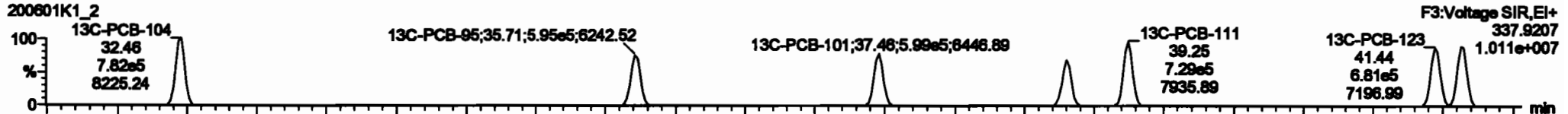
**PCB-104**



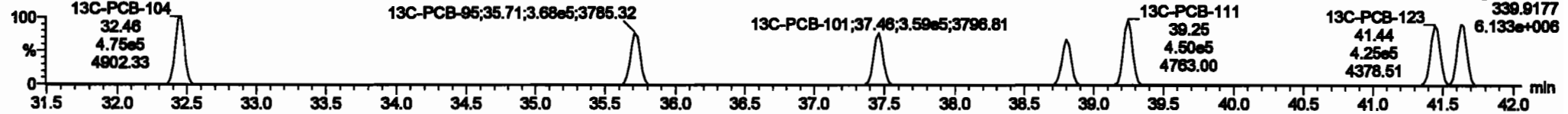
**200601K1\_2**



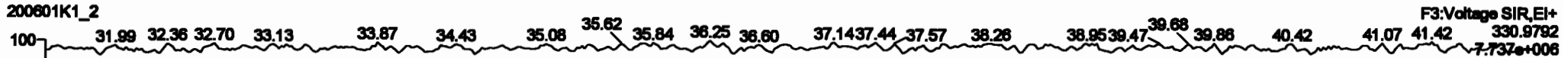
**13C-PCB-104**



**200601K1\_2**



**PFK3b**

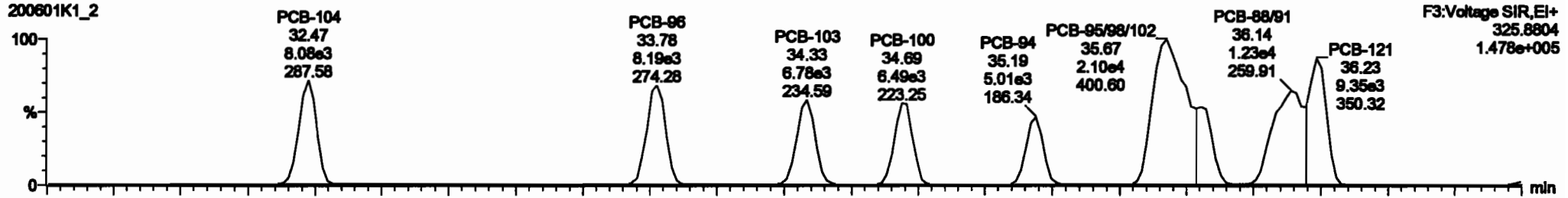


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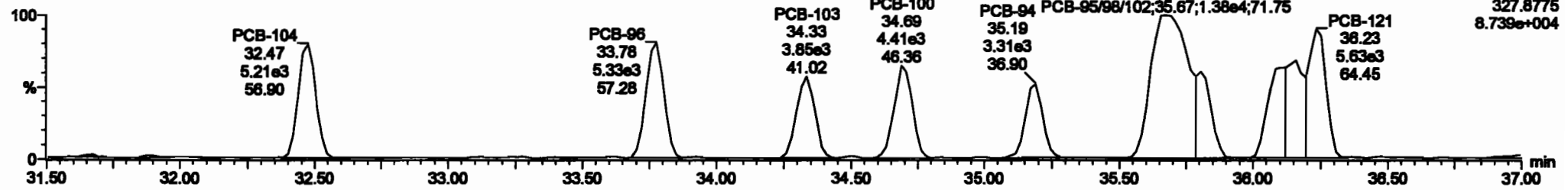
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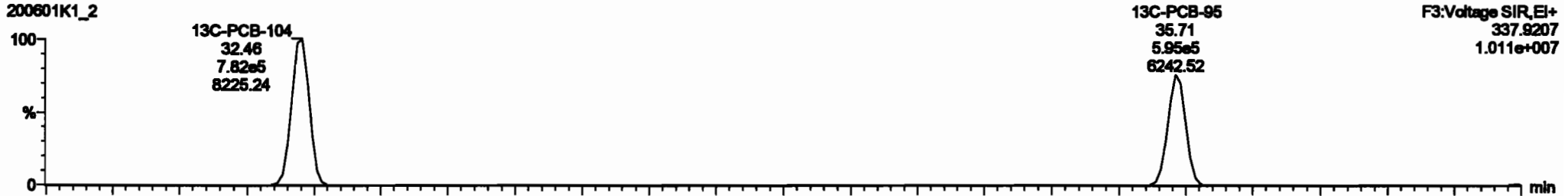
PCB-96



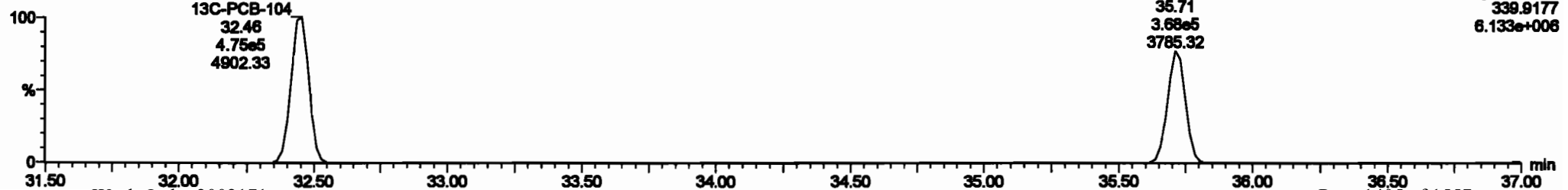
200601K1\_2



13C-PCB-95

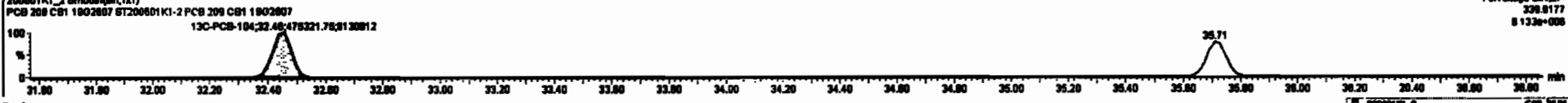
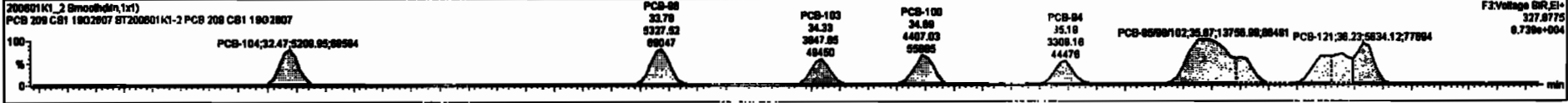
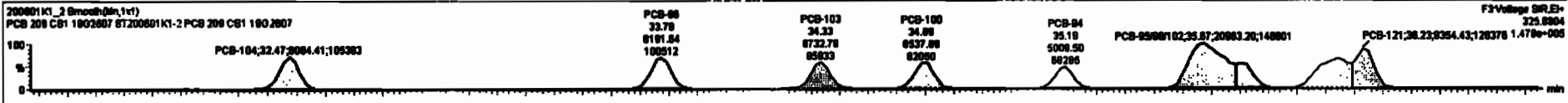


200601K1\_2



#	Name	Step	PA	Qty	QSP	Initial	Prod RT	RT	Pass%	Yield	QRT Fail	Cont.	Units	DL	EMPC
223	13C-PCB-178	7.1Inch	0.45	NO	1.2000	1.2000	46.87	46.87	0.920	0.920	NO	104.2	104	0.0072	
224	224 Total Micro-PCBs				1.2000	1.2000	0.00	0.00	0.000	0.000	NO	2.864		0.0200	2.864
225	225 Total Di-PCBs				1.2000	1.2000	0.00	0.00	0.000	0.000	NO	11.38		0.227	11.38
226	226 2nd Function Tri-PCBs				1.2000	1.2000	0.00	0.00	0.000	0.000	NO	7.832		0.0002	7.832
227	227 3rd Function Tri-PCBs				0.8000	1.2000	0.00	0.00	0.000	0.000	NO	16.71		0.201	16.71
228	228 Total Tube-PCBs				1.2000	1.2000	0.00	0.00	0.000	0.000	NO	40.38		0.302	40.38
229	229 4th Function Pent-PCBs				1.2000	1.2000	0.00	0.00	0.000	0.000	NO	30.87		0.070	30.87
230	230 6th Function Pent-PCBs				1.0735	1.2000	0.00	0.00	0.000	0.000	NO	4.785		0.0713	4.785
231	231 2nd Function Hexa-PCBs				0.8000	1.2000	0.00	0.00	0.000	0.000	NO	13.32		0.123	13.32
232	232 4th Function Hexa-PCBs				1.0218	1.2000	0.00	0.00	0.000	0.000	NO	26.46		0.382	26.46
233	233 Total Hxide-PCBs				1.2000	1.2000	0.00	0.00	0.000	0.000	NO	23.19		0.238	23.19
234	234 4th Function Octa-PCBs				1.0735	1.2000	0.00	0.00	0.000	0.000	NO	8.214		0.0794	8.214

#	Name	Step	PA	Qty	QSP	Initial	Prod RT	RT	Pass%	Yield	QRT Fail	Cont.	Units	DL	EMPC
64	PCB-104				32.47	32.47	0.00e0	0.210e3	1.000	1.00	NO	0.04300	0.04218		
65	PCB-88				33.78	33.78	0.10e3	0.320e3	1.000	1.04	NO	0.03200	0.03176		
66	PCB-103				34.33	34.33	0.720e3	3.800e3	1.000	1.75	NO	0.00800	0.00844		
67	PCB-100				34.88	34.88	0.030e3	4.407e3	1.000	1.48	NO	0.01300	0.01274		
68	PCB-84				35.18	35.18	0.010e3	3.300e3	1.000	1.01	NO	0.01000	0.00880		
69	PCB-8500102				35.87	35.87	2.000e4	1.370e4	1.000	1.82	NO	2.8828	2.8822		
70	PCB-88				36.78	36.78	0.200e3	3.332e3	1.000	1.88	NO	0.00700	0.00728		
71	PCB-8801				38.14	38.14	1.220e4	0.007e3	1.000	1.82	NO	1.8780	1.8781		

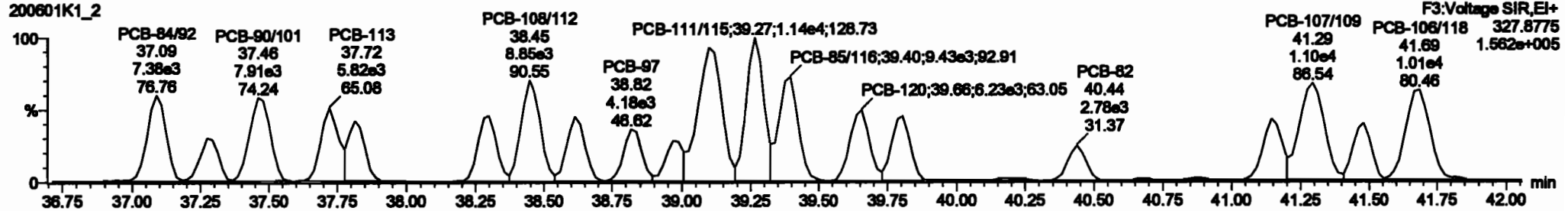
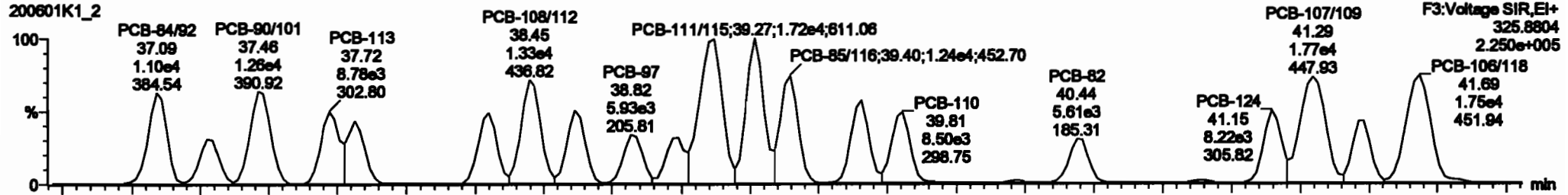


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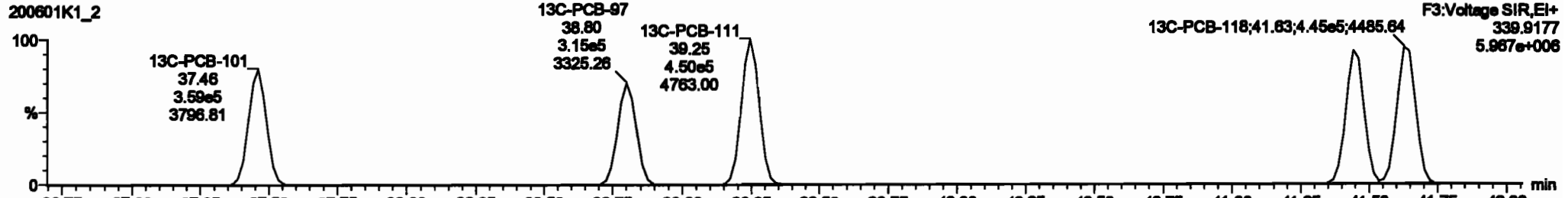
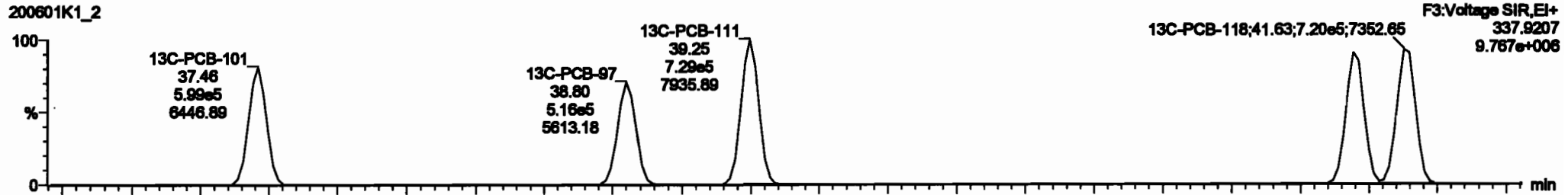
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PCB-119

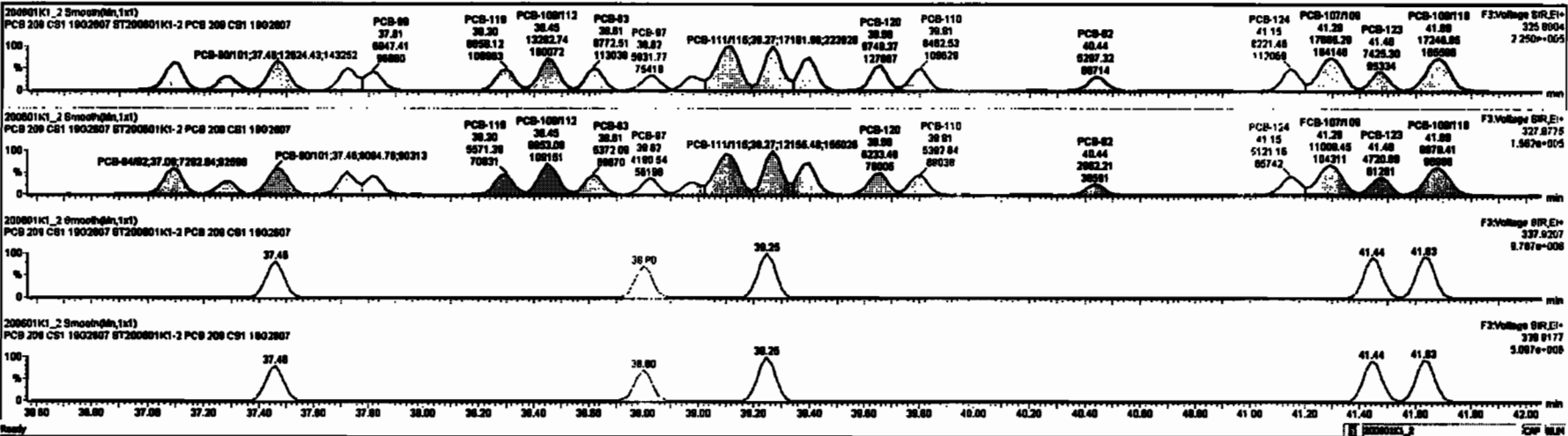


13C-PCB-111



#	Name	Range	RA	RP	RPV	VolVol	Presd/RT	RT	Presd/L	RPV/L	RPV/Pd	Comp	RPV/100	RA	RPV/PC
220	15C-PCB-178	7.5 to 6	0.48	ND	1.0000	1.000	48.87	48.87	0.023	0.023	ND	104.3	104	0.0072	
221	Total Micro-PCBs				1.0000	1.000			0.000	0.000	ND	2.864		0.0236	2.864
222	Total DI-PCBs				1.0000	1.000			0.000	0.000	ND	11.30		0.227	11.30
223	2nd Function Tri-PCBs				1.0000	1.000			0.000	0.000	ND	7.800		0.0802	7.800
224	2nd Function Tri-PCBs				0.0000	1.000			0.000	0.000	ND	16.71		0.201	16.71
225	Total Tri-PCBs				1.0000	1.000			0.000	0.000	ND	40.50		0.582	40.50
226	4th Function Para-PCBs				1.0000	1.000			0.000	0.000	ND	4.700		0.0113	4.700
227	2nd Function Para-PCBs				0.0000	1.000			0.000	0.000	ND	13.50		0.130	13.50
228	4th Function Para-PCBs				1.0000	1.000			0.000	0.000	ND	38.40		0.382	38.40
229	Total Para-PCBs				1.0000	1.000			0.000	0.000	ND	33.10		0.280	33.10
230	4th Function Para-PCBs				1.0000	1.000			0.000	0.000	ND	8.910		0.0900	8.910

#	Name	Presd/RT	RT	Vol Range	Vol/Range	Y' Ratio (Presd)	RA	RPV	RPV/PC	Comp
1	64 PCB-104	32.47	32.47	0.894e3	0.210e3	1.000	1.26	ND	0.84200	0.84210
2	68 PCB-88	33.78	33.78	0.182e3	0.220e3	1.000	1.84	ND	0.82200	0.80170
3	69 PCB-108	34.20	34.20	0.720e3	0.290e3	1.000	1.76	ND	0.80000	0.88844
4	67 PCB-100	34.80	34.80	0.530e3	4.40e3	1.000	1.48	ND	0.81300	0.81274
5	66 PCB-84	35.10	35.10	0.010e3	3.30e3	1.000	1.81	ND	0.81000	0.80880
6	65 PCB-66/81/82	35.87	35.87	2.080e3	1.37e3	1.000	1.82	ND	2.880	2.8822
7	70 PCB-83	35.70	35.81	0.280e3	3.30e3	1.000	1.48	ND	0.80700	0.80738
8	71 PCB-88/81	38.14	38.14	1.220e3	0.007e3	1.000	1.82	ND	1.8700	1.8701
9	72 PCB-81/71	38.20	38.20	0.380e3	0.000e3	1.000	1.82	ND	0.81000	0.81000



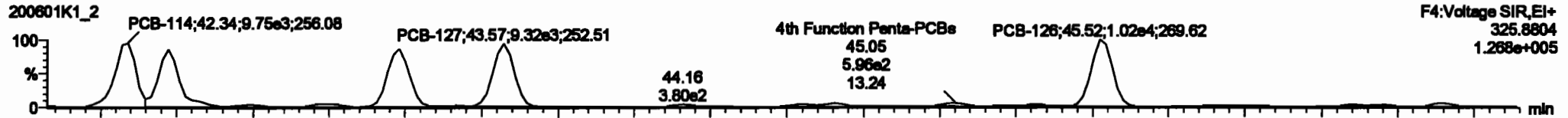


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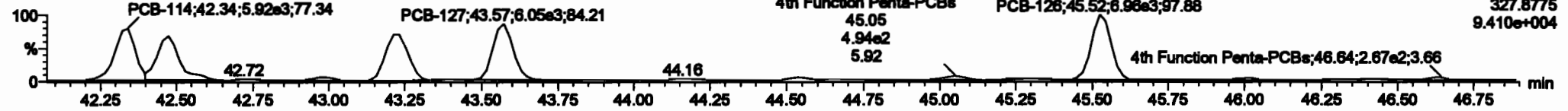
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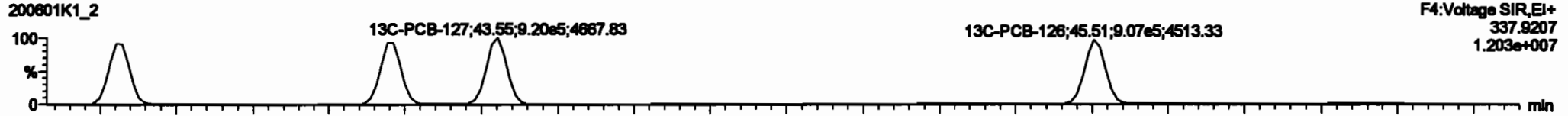
**PCB-114**



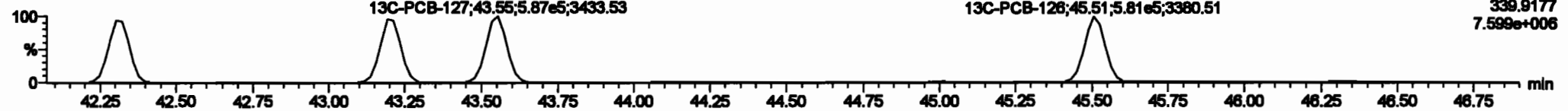
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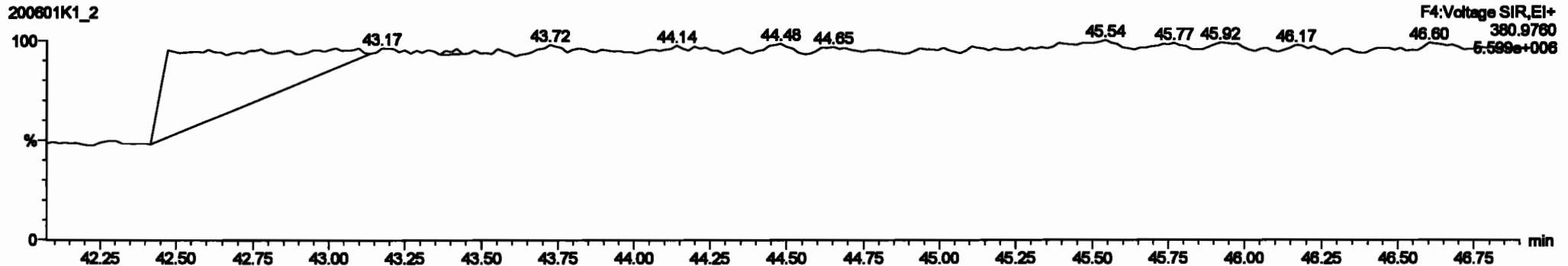
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200601K1\_2

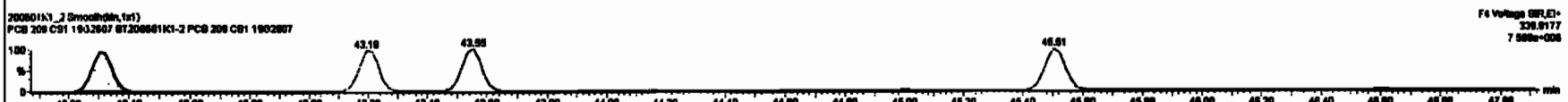
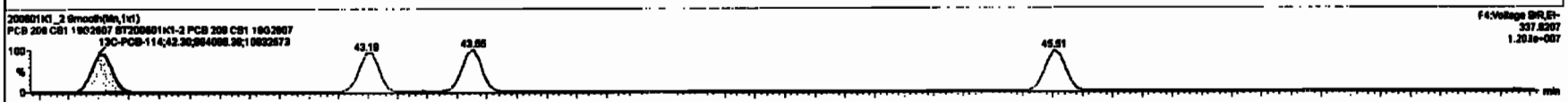
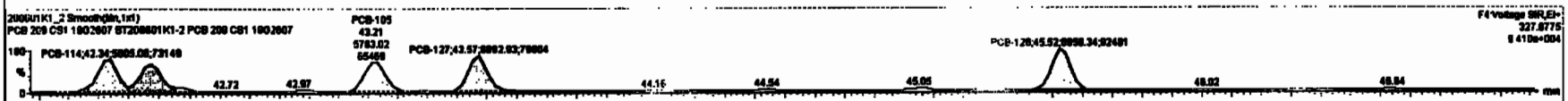
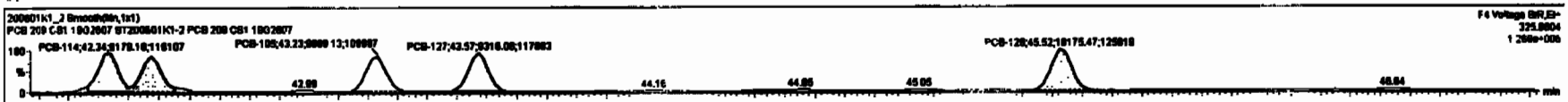


**PFK4a**



#	Name	Area	RA	SLY	FWF	Subst	ProdRT	RT	ProdSL	FWT	MS-Pol	Comp	MSep	SL	MSFC
220	12C-PCB-170	7.18e5	0.45	NO	1.0000	1.000	45.97	45.97	0.023	0.023	NO	104.2	104	0.0072	
224	Total Mono-PCBs				1.0000	1.000			0.000	0.000	NO	2.804		0.0206	2.804
226	Total Di-PCBs				1.0000	1.000			0.000	0.000	NO	11.38		0.327	11.38
228	Total Tri-PCBs				1.0000	1.000			0.000	0.000	NO	7.832		0.0002	7.832
229	Total Tetra-PCBs				0.0020	1.000			0.000	0.000	NO	18.71		0.301	18.71
230	Total Penta-PCBs				1.0770	1.000			0.000	0.000	NO	40.38		0.302	40.38
231	Total Hexa-PCBs				1.2167	1.000			0.000	0.000	NO	38.67		0.670	38.67
232	Total Hepta-PCBs				1.0000	1.000			0.000	0.000	NO	13.32		0.123	13.32
233	Total Octa-PCBs				0.0000	1.000			0.000	0.000	NO	28.48		0.302	28.48
234	Total Non-PCBs				1.0016	1.000			0.000	0.000	NO	23.10		0.320	23.10
235	Total PCBs				1.3001	1.000			0.000	0.000	NO	8.918		0.098	8.918

#	Name	Area	SL	MS	MS-Pol	MS-Comp	MS-MSep
1	53 PCB-114	42.35	42.34	0.170e3	0.000e0	1.000	1.00
2	54 PCB-122	42.47	42.47	0.200e3	0.111e0	1.000	1.00
3	68 PCB-108	43.31	43.23	0.000e3	0.703e0	1.000	1.00
4	69 PCB-127	43.97	43.97	0.310e3	0.000e0	1.000	1.00
5	67 PCB-128	45.82	45.82	1.010e4	0.000e0	1.000	1.00



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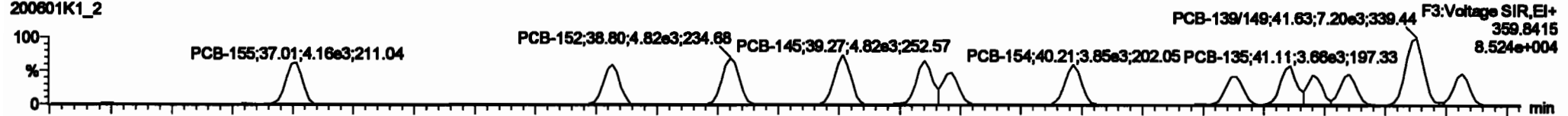
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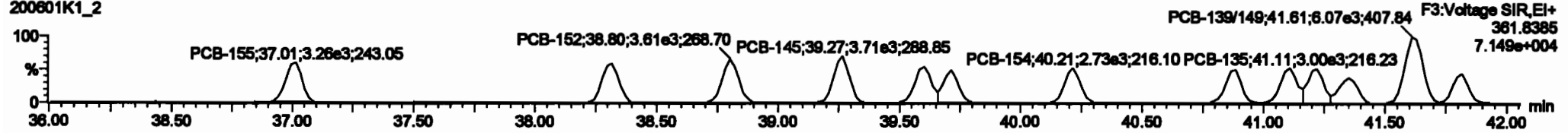
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**PCB-155**

200601K1\_2

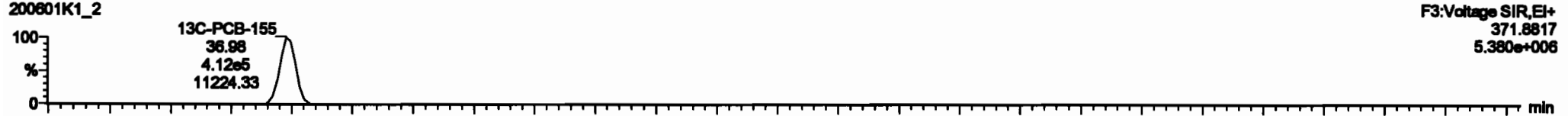


200601K1\_2

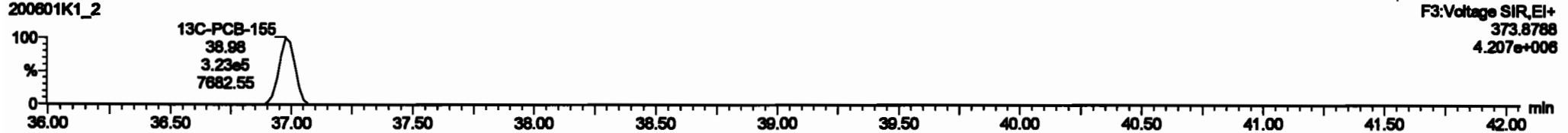


**13C-PCB-155**

200601K1\_2

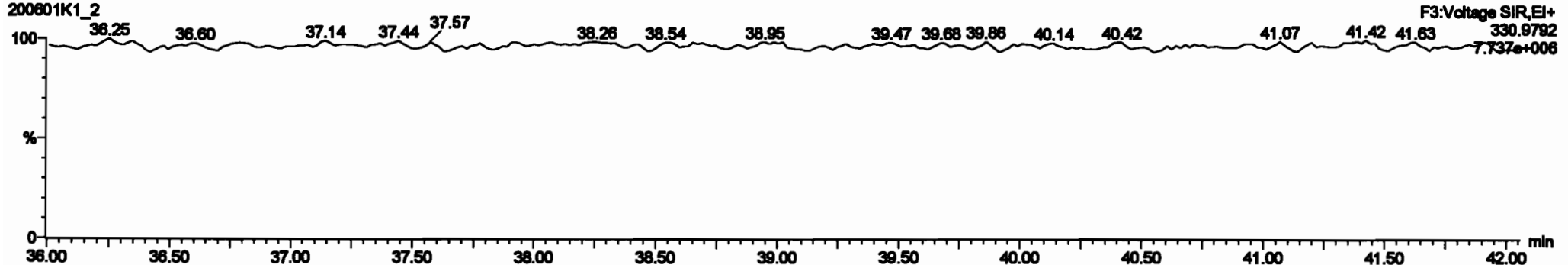


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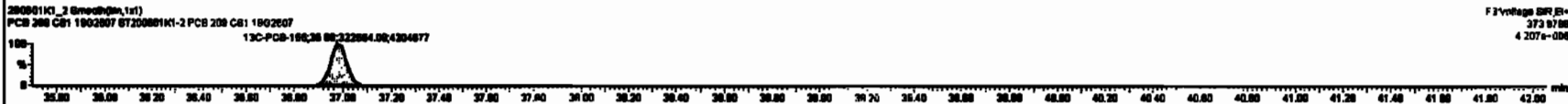
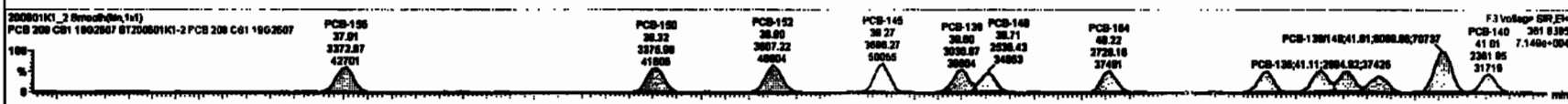
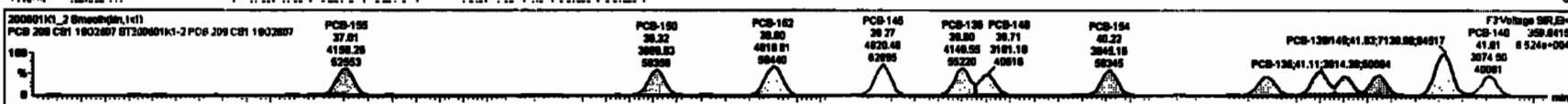
**PFK3c**

200601K1\_2



#	Name	Range	Min	Max	PPM	Volts	PPM	Volts	PPM	Volts	PPM	Volts	PPM	Volts	PPM	Volts	PPM	Volts
220	13C-PCB-178	7.18e4	0.45	ND	1.0000	1.000	46.67	46.67	0.000	0.000	ND	104.2	104	0.0072				
224	Total Mono-PCBs				1.1895	1.000	0.00	0.00	0.000	0.000	ND	2.894		0.0236	2.894			
226	Total Di-PCBs				1.0007	1.000	0.00	0.00	0.000	0.000	ND	11.30		0.207	11.30			
228	2nd Function Tri-PCBs				1.0007	1.000	0.00	0.00	0.000	0.000	ND	7.830		0.0000	7.830			
227	2nd Function Tetra-PCBs				0.0000	1.000	0.00	0.00	0.000	0.000	ND	16.71		0.201	16.71			
229	Total Tetra-PCBs				1.0778	1.000	0.00	0.00	0.000	0.000	ND	48.30		0.362	48.30			
230	2nd Function Penta-PCBs				1.3107	1.000	0.00	0.00	0.000	0.000	ND	38.07		0.076	38.07			
231	2nd Function Hexa-PCBs				1.0726	1.000	0.00	0.00	0.000	0.000	ND	4.788		0.0712	4.788			
232	2nd Function Hepta-PCBs				0.0000	1.000	0.00	0.00	0.000	0.000	ND	0.000		0.000	0.000			
233	Total Mono-PCBs				1.0718	1.000	0.00	0.00	0.000	0.000	ND	28.40		0.202	28.40			
234	Total Di-PCBs				1.0001	1.000	0.00	0.00	0.000	0.000	ND	23.18		0.200	23.18			
235	2nd Function Octa-PCBs				1.0704	1.000	0.00	0.00	0.000	0.000	ND	8.714		0.0700	8.714			

#	Name	Range	Min	Max	PPM	Volts	PPM	Volts	PPM	Volts	PPM	Volts	PPM	Volts
88	PCB-188		38.88	37.81	4.100e3	3.27e3		1.240	1.20	ND	0.89180	0.89137		
89	PCB-189		38.33	38.33	3.888e3	3.37e3		1.240	1.18	ND	0.91280	0.91238		
90	PCB-192		38.80	38.80	4.817e3	3.80e3		1.240	1.24	ND	0.88880	0.88881		
101	PCB-145		38.27	38.27	4.828e3	3.88e3		1.240	1.21	ND	0.87480	0.87388		
102	PCB-128		38.80	38.80	4.100e3	3.80e3		1.240	1.27	ND	0.89000	0.88970		
103	PCB-148		38.71	38.71	3.119e3	2.59e3		1.240	1.28	ND	0.89980	0.89988		
104	PCB-158		48.21	48.21	3.888e3	2.78e3		1.240	1.41	ND	0.87200	0.87218		
105	PCB-161		48.88	48.88	3.586e3	2.88e3		1.240	1.16	ND	1.0070	1.0070		
106	PCB-126		41.11	41.11	3.814e3	2.88e3		1.240	1.27	ND	1.0040	1.0044		

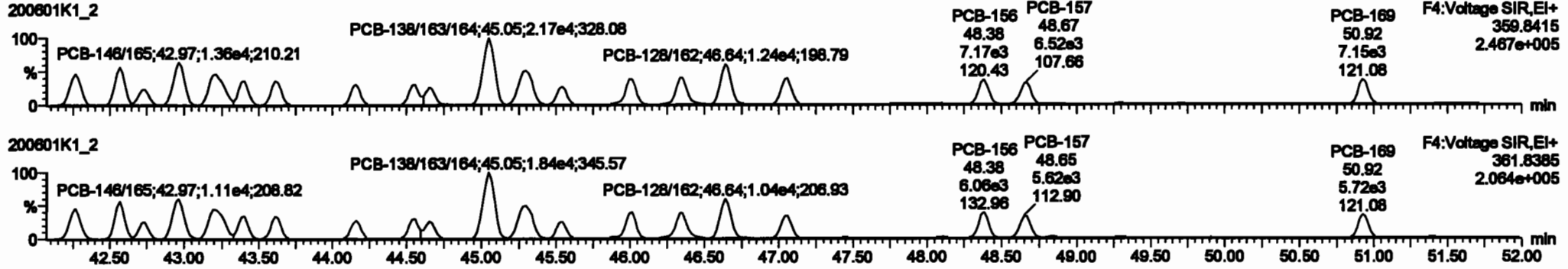


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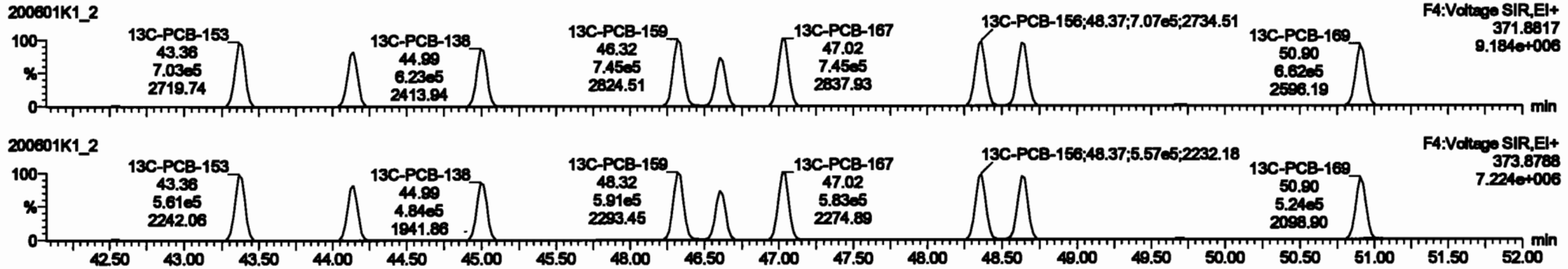
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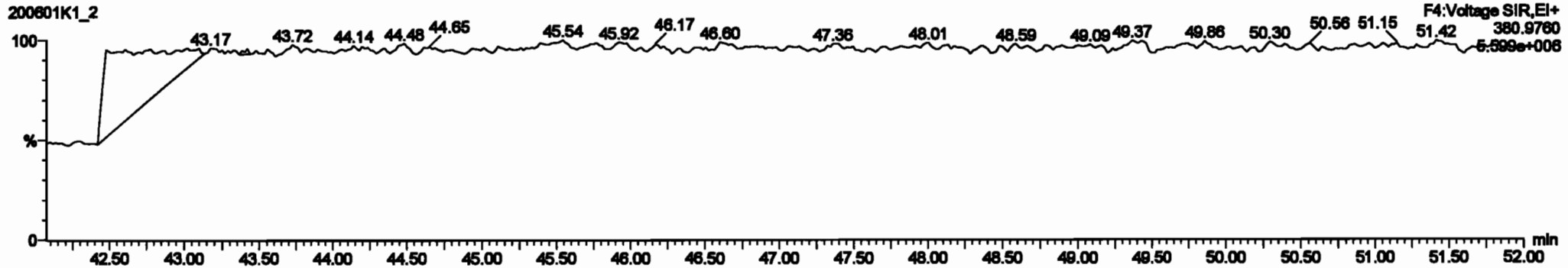
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13C-PCB-153

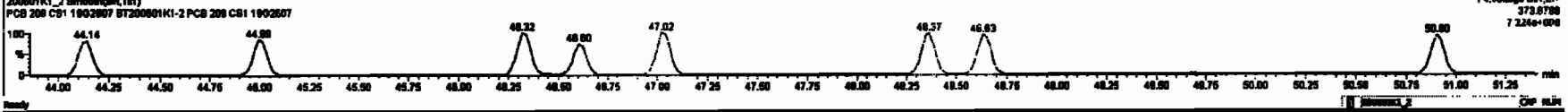
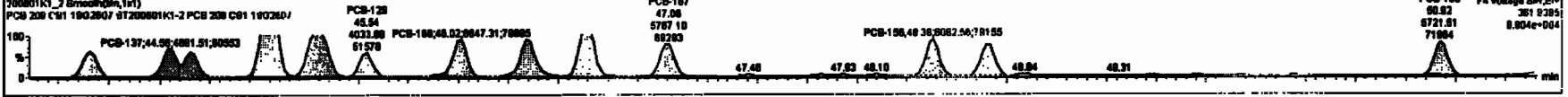
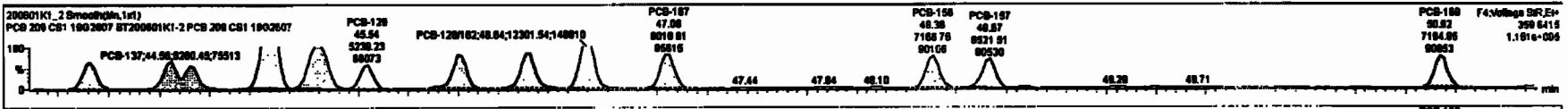


PFK4b



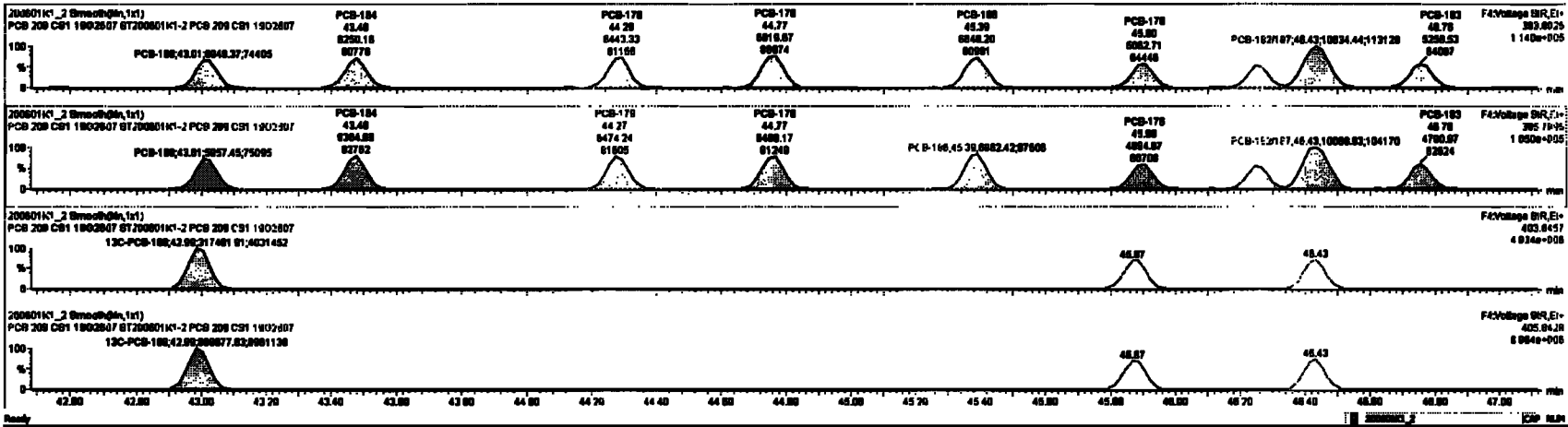
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220	13C-PCB-170	7.186d	0.46	NO	1.0000	1.0000	46.87	46.87	0.0000	0.0000	NO	104.2	104	0.0072				
221	Total Mono-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	2.884		0.0206	2.864			
222	Total Di-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	11.30		0.227	11.20			
223	Total Tri-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	7.852		0.0822	7.832			
224	Total Tetra-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	18.71		0.281	18.71			
225	Total Penta-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	40.30		0.382	40.30			
226	Total Hexa-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	38.57		0.576	38.57			
227	Total Hepta-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	4.780		0.0713	4.780			
228	Total Octa-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	13.32		0.123	13.32			
229	Total Non-PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	20.47		0.196	20.47			
230	Total PCBs				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	23.18		0.230	23.18			
231	Total PCBs (incl. PCBs)				1.0000	1.0000	0.00	0.00	0.0000	0.0000	NO	23.18		0.230	23.18			

#	Name	Time	SN	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF
111	PCB-126A43	42.26	42.26	0.807e0	0.807e0	1.240	1.24	NO	1.8820	1.8818								
112	PCB-131A33	42.55	42.57	1.025e0	0.879e0	1.240	1.22	NO	1.8820	1.8818								
113	PCB-142	42.73	42.74	4.814e0	3.874e0	1.240	1.24	NO	0.83200	0.83258								
114	PCB-148A06	42.87	42.87	1.285e0	1.114e0	1.240	1.22	NO	1.8820	1.8822								
115	PCB-120A01	43.20	43.21	1.201e0	1.120e0	1.240	1.18	NO	1.8840	1.8838								
116	PCB-103	43.58	43.41	7.230e0	5.740e0	1.240	1.20	NO	0.80000	0.80004								
117	PCB-106	43.81	43.81	7.201e0	5.680e0	1.240	1.20	NO	0.84000	0.84082								
118	PCB-141	44.18	44.18	5.747e0	4.482e0	1.240	1.20	NO	0.84100	0.84128								
119	PCB-137	44.88	44.90	8.280e0	4.892e0	1.240	1.24	NO	0.83100	0.83080								



#	Name	Rate	RA	sq	SP	Unit	Peak	RT	Peak	RT	Peak	RT	Area	Unit	IC	IMP
220	13C-PCB-178	7.16e4	0.48	NO	1.0000	1.000	46.87	46.87	0.920	0.920	NO	2.894	104	0.0022	2.894	
224	Total Micro-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	11.30		0.0000	11.30	
228	Total EI-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	7.850		0.0000	7.850	
232	2nd Function Tri-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	18.71		0.0000	18.71	
236	2nd Function Tri-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	48.30		0.0000	48.30	
240	2nd Function Penta-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	38.67		0.0000	38.67	
244	2nd Function Penta-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	4.700		0.0013	4.700	
248	2nd Function Hexa-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	13.33		0.0000	13.33	
252	2nd Function Hexa-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	20.40		0.0000	20.40	
256	2nd Function Hepta-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	20.40		0.0000	20.40	
260	2nd Function Octa-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	0.000		0.0000	0.000	
264	2nd Function Nona-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	0.000		0.0000	0.000	

#	Name	Peak	RT	Area	Unit	Peak	RT	Area	Unit
131	PCB-184	43.03	43.03	0.040e3	0.000e3	1.000	1.01	NO	0.01000
132	PCB-184	43.40	43.40	0.200e3	0.200e3	1.000	0.98	NO	1.00000
133	PCB-178	44.27	44.28	0.400e3	0.470e3	1.000	1.00	NO	0.07000
134	PCB-178	44.24	44.77	0.020e3	0.400e3	1.000	1.07	NO	1.00000
135	PCB-188	45.30	45.30	0.040e3	0.000e3	1.000	0.98	NO	1.00000
136	PCB-178	45.60	45.60	0.000e3	0.000e3	1.000	1.00	NO	1.00000
137	PCB-178	46.24	46.24	0.000e3	0.000e3	1.000	1.01	NO	0.00000
138	PCB-188B7	46.42	46.43	1.000e3	1.000e3	1.000	1.08	NO	1.01000
139	PCB-183	46.78	46.78	0.200e3	0.270e3	1.000	1.12	NO	0.00000



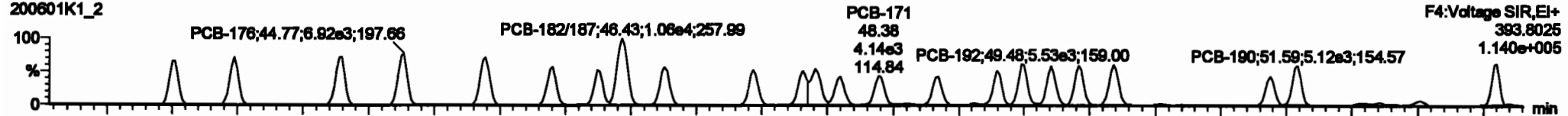
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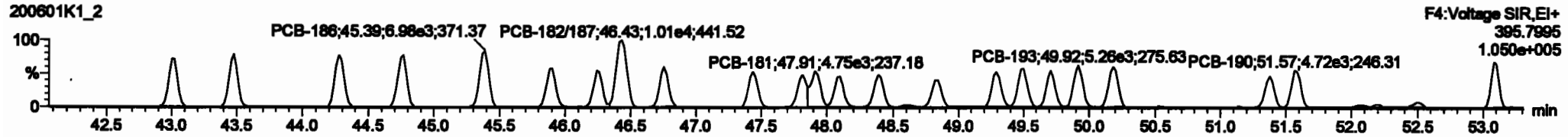
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**PCB-188**

200601K1\_2

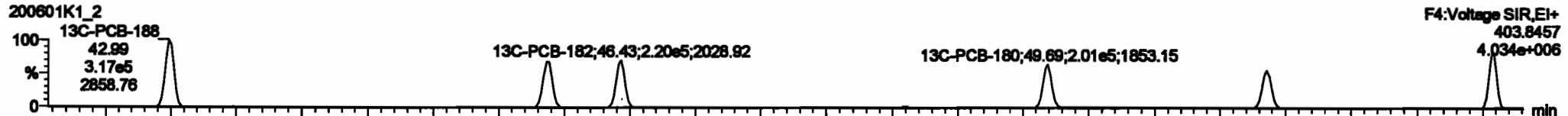


200601K1\_2

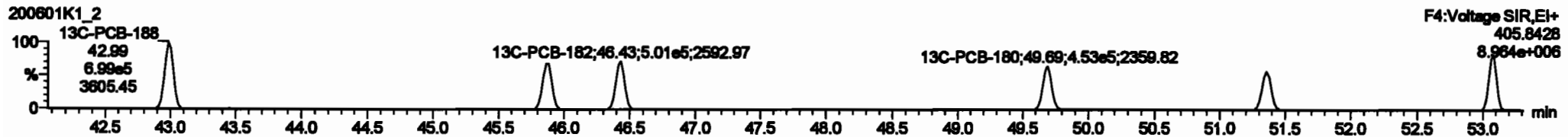


**13C-PCB-188**

200601K1\_2

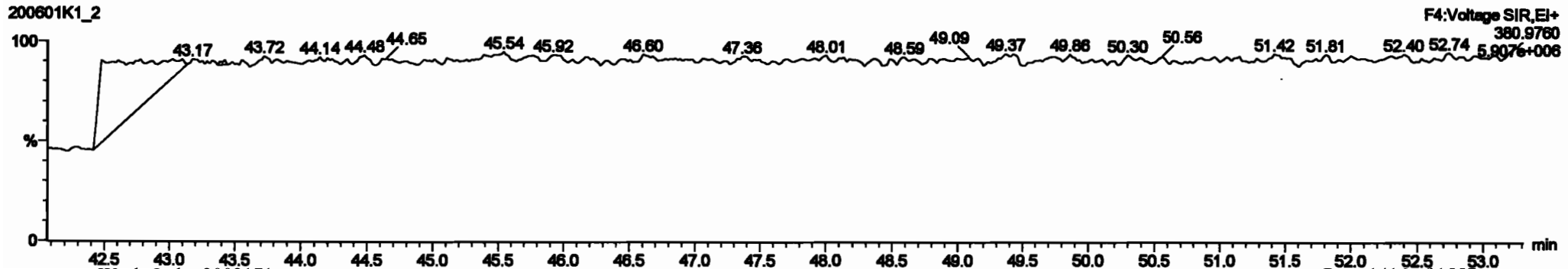


200601K1\_2



**PFK4c**

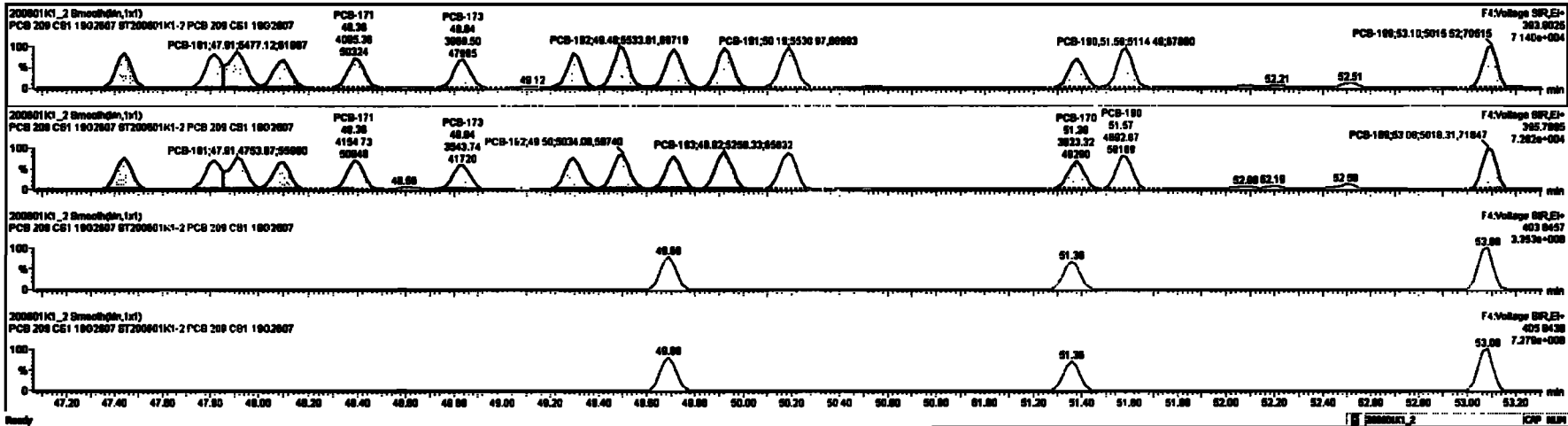
200601K1\_2





Peak	Area	Height	Width	Retention Time	Concentration	Response	Integration	Quality	Reference	Sample	Concentration	Response	Integration	Quality	Reference	Sample
220	13C-PCB-178	7.18e5	0.45	ND	1.0000	1.000	46.87	46.87	0.000	0.003	ND	104.2	104	0.0073		
221	Total Mono-PCBs				1.1886	1.000	0.00	0.000	0.000	ND	2.884	0.0230	2.884			
222	Total Di-PCBs				1.0537	1.000	0.00	0.000	0.000	ND	11.38	0.227	11.38			
223	2nd Function Tri-PCBs				1.0667	1.000	0.00	0.000	0.000	ND	7.632	0.0823	7.632			
224	3rd Function Tri-PCBs				0.8528	1.000	0.00	0.000	0.000	ND	16.71	0.201	16.71			
225	Total Tetra-PCBs				1.0778	1.000	0.00	0.000	0.000	ND	40.38	0.302	40.38			
226	2nd Function Penta-PCBs				1.2167	1.000	0.00	0.000	0.000	ND	39.97	0.670	39.97			
227	3rd Function Penta-PCBs				1.0735	1.000	0.00	0.000	0.000	ND	4.785	0.0713	4.785			
228	4th Function Penta-PCBs				0.8835	1.000	0.00	0.000	0.000	ND	13.32	0.123	13.32			
229	5th Function Hexa-PCBs				1.0518	1.000	0.00	0.000	0.000	ND	28.46	0.282	28.46			
230	6th Function Hexa-PCBs				1.2218	1.000	0.00	0.000	0.000	ND	33.16	0.310	33.16			
231	7th Function Octa-PCBs				1.0978	1.000	0.00	0.000	0.000	ND	8.918	0.0991	8.918			

Peak	Area	Height	Width	Retention Time	Concentration	Response	Integration	Quality	Reference	Sample	Concentration	Response	Integration	Quality	Reference	Sample
131	PCB-188	43.03	43.01	0.00e+00	0.000e+00	1.000	1.01	ND	0.01000	0.01021						
132	PCB-184	43.48	43.48	0.20e+03	0.200e+03	1.000	0.98	ND	1.0000	1.0000						
133	PCB-178	44.27	44.28	0.44e+03	0.440e+03	1.000	1.00	ND	0.99988	0.99934						
134	PCB-176	44.74	44.77	0.82e+03	0.820e+03	1.000	1.07	ND	1.0070	1.0086						
135	PCB-188	46.38	46.38	0.00e+00	0.000e+00	1.000	0.98	ND	1.0000	1.0079						
136	PCB-178	46.88	46.88	0.00e+00	0.000e+00	1.000	1.00	ND	1.0000	1.0088						
137	PCB-176	48.24	48.24	4.88e+03	4.880e+03	1.000	1.01	ND	0.99400	0.92088						
138	PCB-182/87	48.42	48.42	1.00e+04	1.000e+04	1.000	1.08	ND	1.0110	1.0110						
139	PCB-188	48.78	48.78	0.20e+03	0.200e+03	1.000	1.12	ND	0.98800	0.88807						



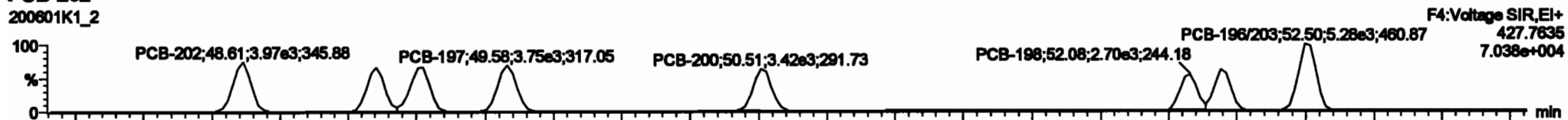
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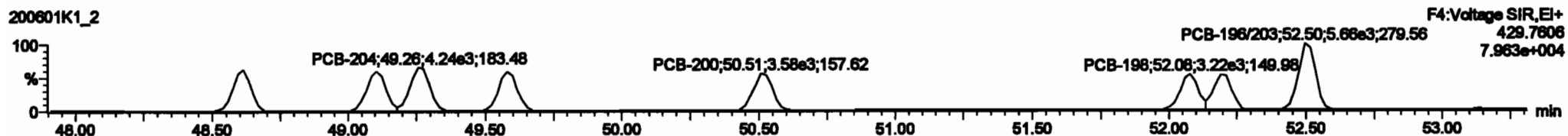
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**PCB-202**

200601K1\_2



200601K1\_2

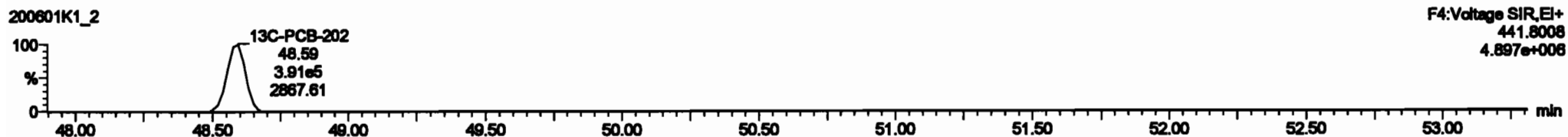


**13C-PCB-202**

200601K1\_2

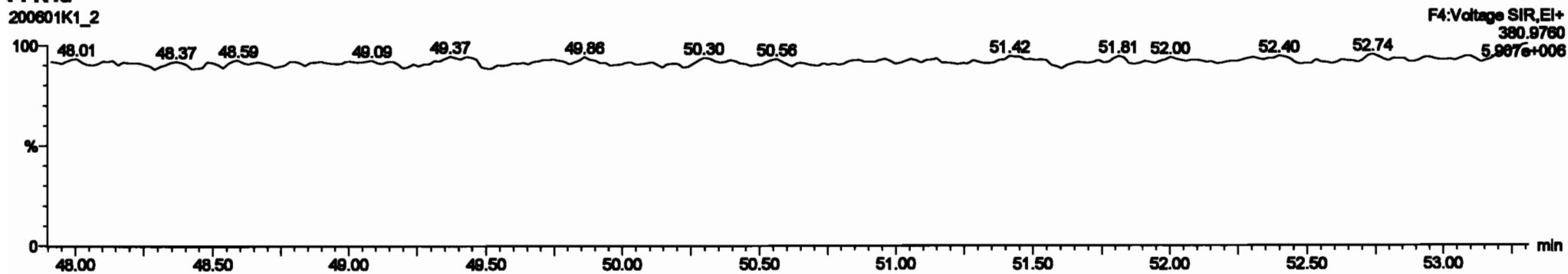


200601K1\_2



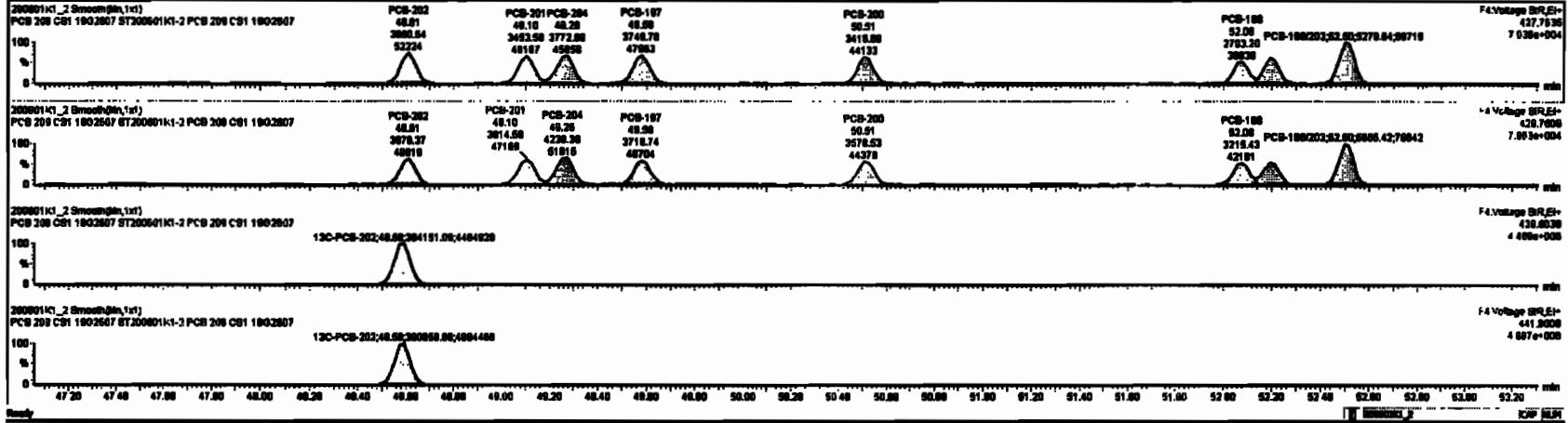
**PFK4d**

200601K1\_2



#	Name	Range	Min	Max	Unit	Min	Max	Unit	Min	Max	Unit	Min	Max	Unit	Min	Max	Unit	Min	Max	Unit	
223	13C-PCB-178	7.14e4	0.45	NO		1.5880	1.820	48.87	0.520	0.520	NO	104.2	104	0.0072							
224	Total Mono-PCBs					1.5880	1.820	0.00	0.000	0.000	NO	2.884		0.0280							
225	Total Di-PCBs					1.8207	1.820	0.00	0.000	0.000	NO	11.30		0.227							
226	Total Tri-PCBs					1.8207	1.820	0.00	0.000	0.000	NO	7.820		0.0000							
227	2nd Function Tri-PCBs					0.8828	1.820	0.00	0.000	0.000	NO	16.71		0.201							
228	Total Tetra-PCBs					1.5778	1.820	0.00	0.000	0.000	NO	49.30		0.380							
229	2nd Function Tetra-PCBs					1.5187	1.820	0.00	0.000	0.000	NO	38.87		0.870							
230	4th Function Tetra-PCBs					1.8728	1.820	0.00	0.000	0.000	NO	4.786		0.0713							
231	2nd Function Mono-PCBs					0.8888	1.820	0.00	0.000	0.000	NO	13.32		0.120							
232	4th Function Mono-PCBs					1.5818	1.820	0.00	0.000	0.000	NO	28.48		0.380							
233	Total Hexa-PCBs					1.2581	1.820	0.00	0.000	0.000	NO	23.10		0.250							
234	Total Octa-PCBs					1.8207	1.820	0.00	0.000	0.000	NO	18.92		0.0000							

#	Name	Product	Unit	Min	Max	Unit	Min	Max	Unit	Min	Max	Unit	Min	Max	Unit
1	104-PCB-202	48.81	48.81	3.891e3	3.891e3	0.000	1.00	NO	0.88000	0.88700					
2	108-PCB-201	48.10	48.10	3.266e3	3.818e3	0.000	0.88	NO	0.81800	0.91400					
3	108-PCB-204	48.20	48.20	3.772e3	4.230e3	0.000	0.88	NO	0.85000	0.85000					
4	107-PCB-197	48.80	48.80	3.719e3	3.719e3	0.000	1.01	NO	0.87400	0.87700					
5	108-PCB-200	50.01	50.01	3.471e3	3.597e3	0.000	0.88	NO	0.88000	0.88000					
6	108-PCB-108	52.00	52.00	3.782e3	3.716e3	0.000	0.84	NO	0.88000	0.88770					
7	108-PCB-108	52.10	52.10	3.524e3	3.546e3	0.000	0.83	NO	1.5270	1.5280					
8	101-PCB-108200	52.62	52.62	6.280e3	6.686e3	0.000	0.83	NO	1.7280	1.7280					



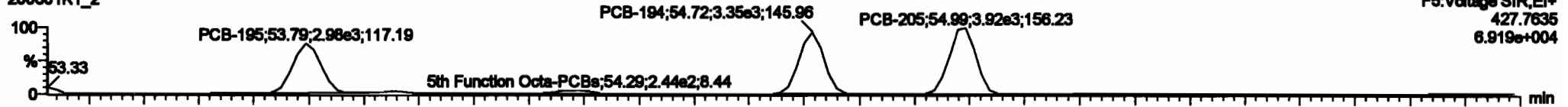
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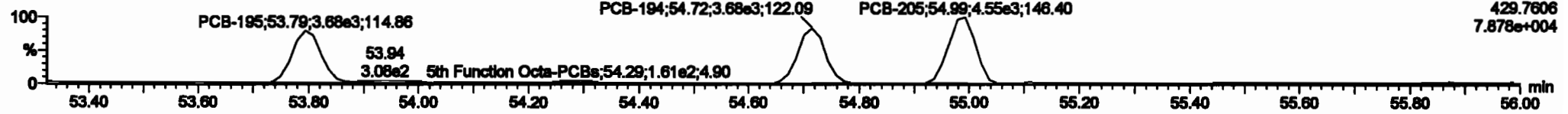
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**PCB-195**

200601K1\_2

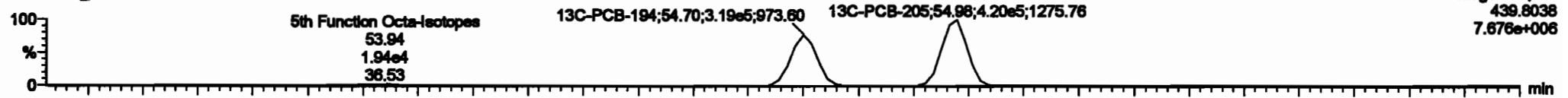


200601K1\_2

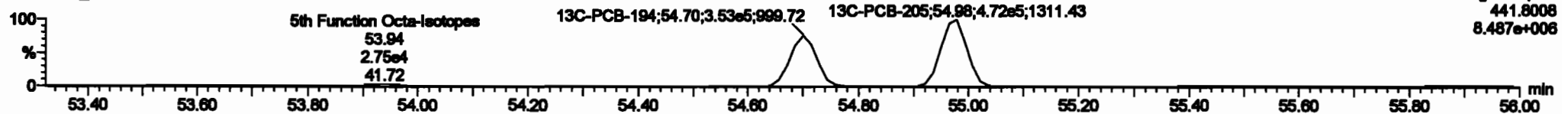


**13C-PCB-194**

200601K1\_2

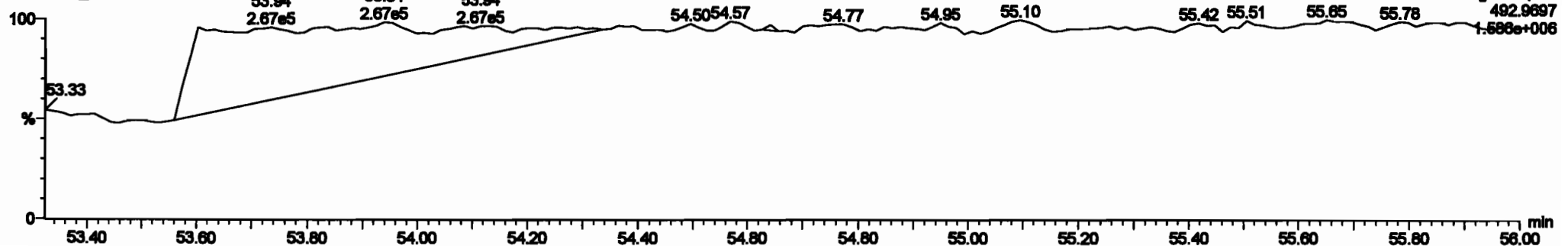


200601K1\_2



**PFK5a**

200601K1\_2



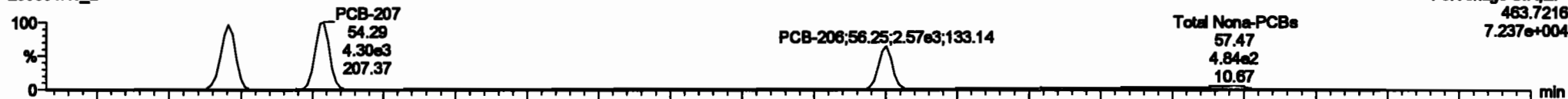
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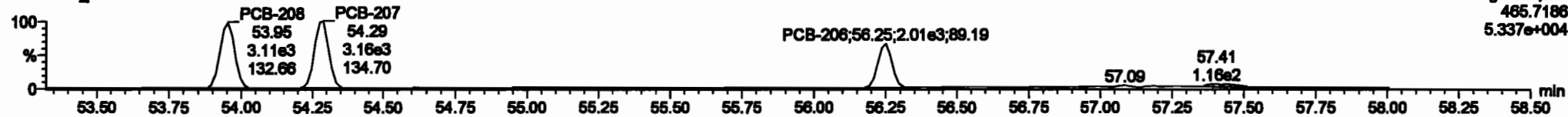
**PCB-208**

200601K1\_2



F5:Voltage SIR,EI+  
463.7216  
7.237e+004

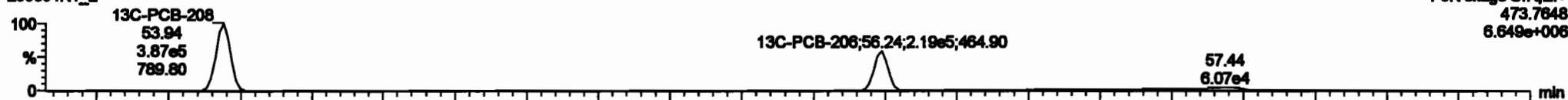
200601K1\_2



F5:Voltage SIR,EI+  
465.7186  
5.337e+004

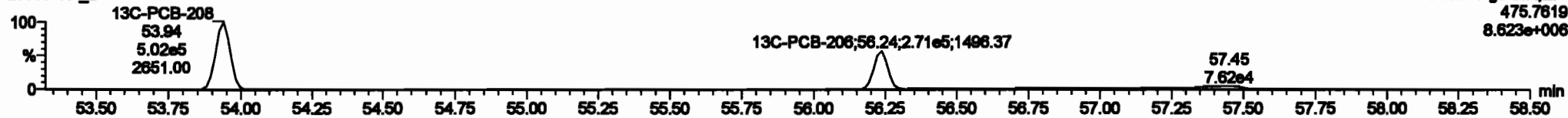
**13C-PCB-208**

200601K1\_2



F5:Voltage SIR,EI+  
473.7848  
6.649e+006

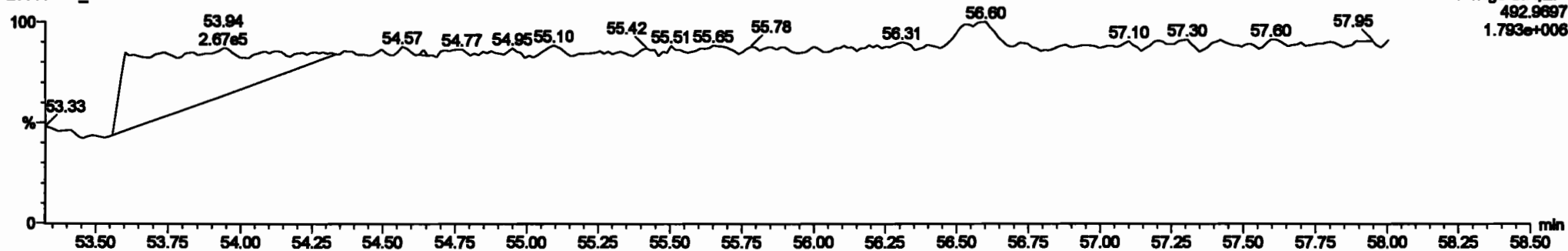
200601K1\_2



F5:Voltage SIR,EI+  
475.7619  
8.623e+006

**PFK5**

200601K1\_2



F5:Voltage SIR,EI+  
492.9697  
1.793e+006

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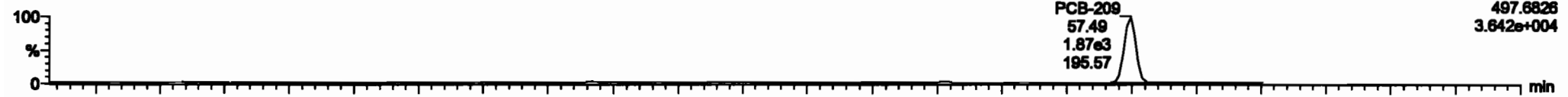
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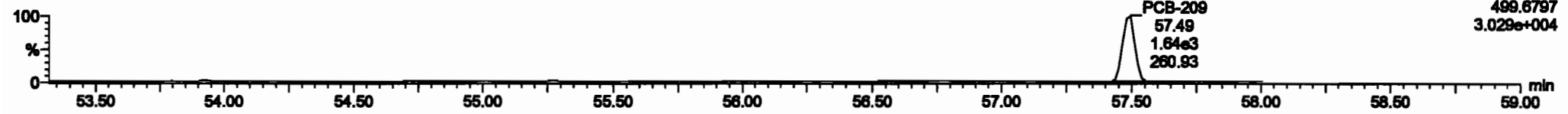
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**PCB-209**

200601K1\_2

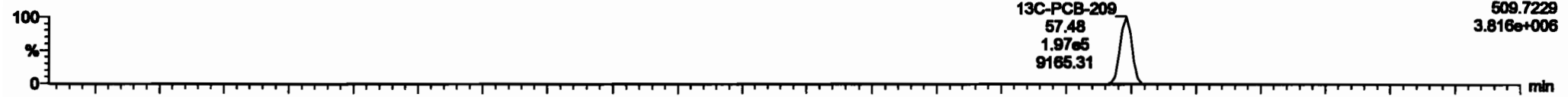


200601K1\_2

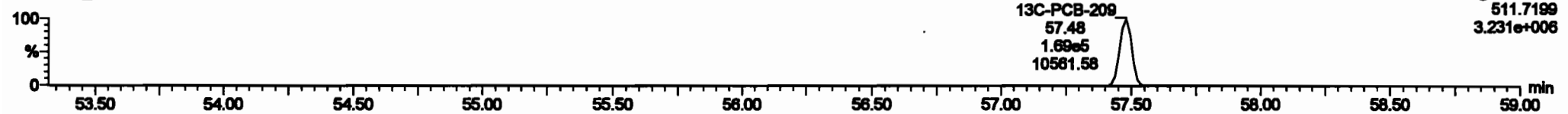


**13C-PCB-209**

200601K1\_2

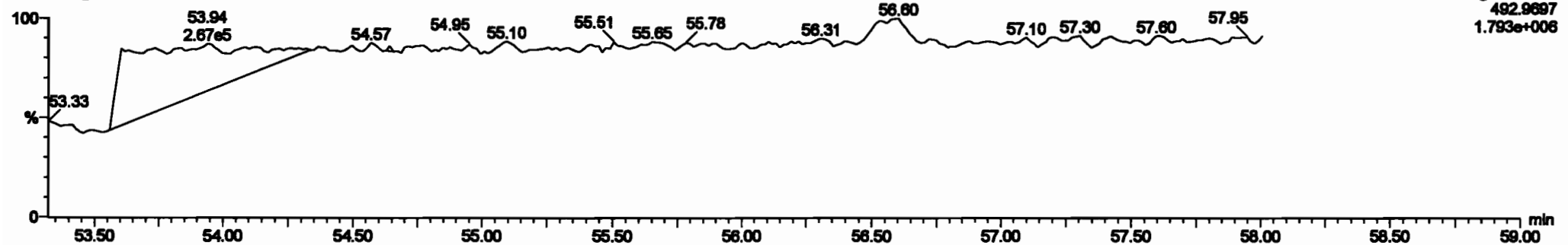


200601K1\_2



**PFK5b**

200601K1\_2



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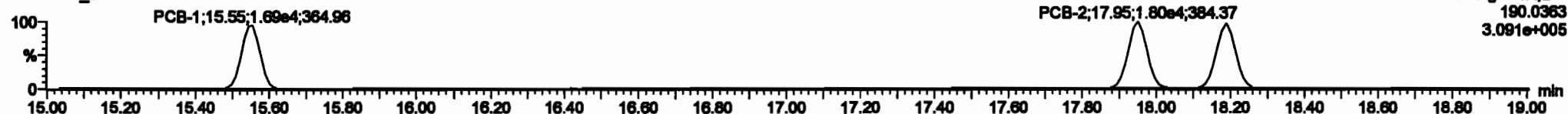
PCB-1

200601K1\_3



F1:Voltage SIR,EI+  
188.0393  
9.727e+005

200601K1\_3



F1:Voltage SIR,EI+  
190.0363  
3.091e+005

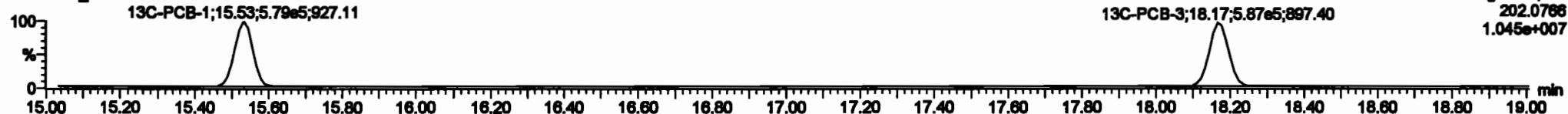
13C-PCB-1

200601K1\_3



F1:Voltage SIR,EI+  
200.0795  
3.385e+007

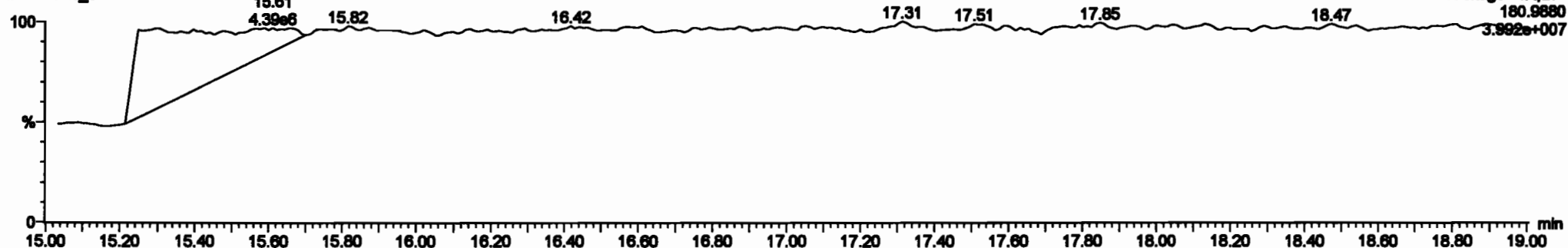
200601K1\_3



F1:Voltage SIR,EI+  
202.0768  
1.045e+007

PFK1

200601K1\_3



F1:Voltage SIR,EI+  
180.9880  
3.992e+007

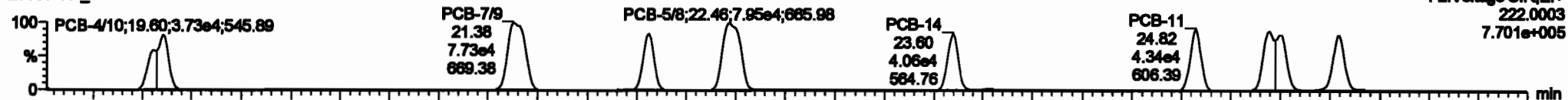
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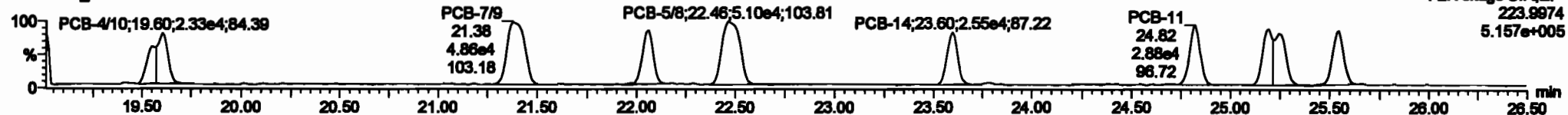
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**PCB-4/10**

200601K1\_3

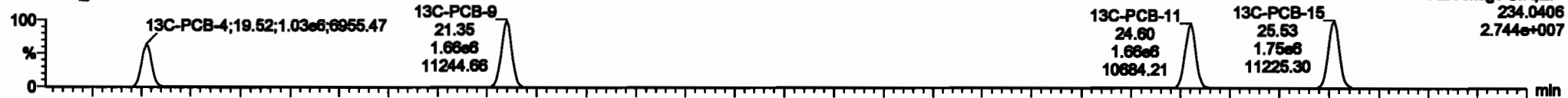


200601K1\_3

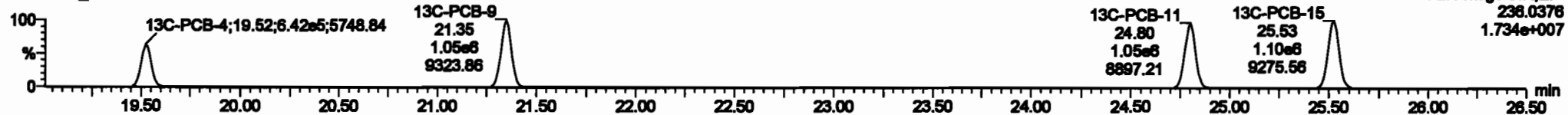


**13C-PCB-4**

200601K1\_3

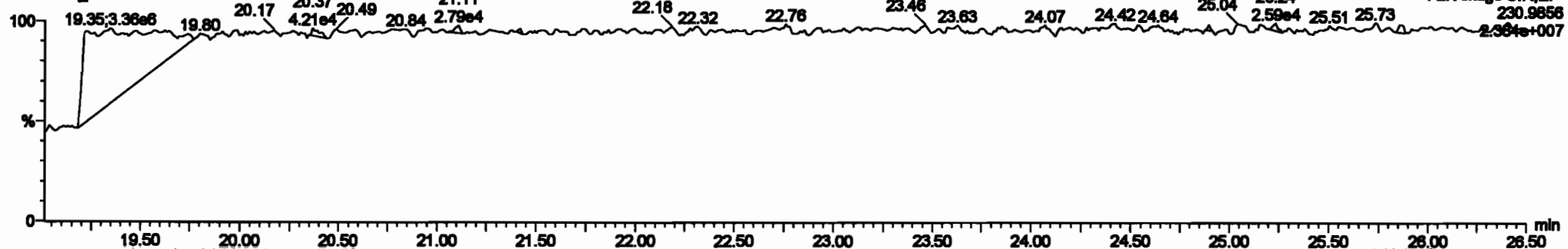


200601K1\_3



**PFK2a**

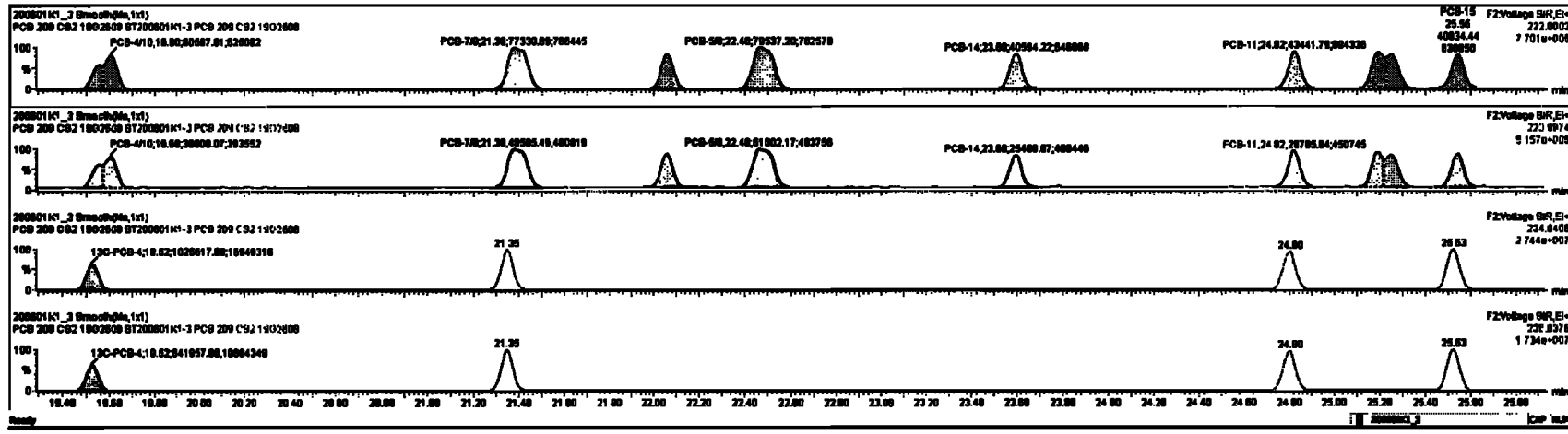
200601K1\_3





#	Peak	Retp	RA	dy	RFI	Initial	Final	RT	Peak	RT	Peak	RT	Peak	RT	Area	Wt%	EL	BFPC
210	13C-PCB-00	1.21min	0.70	NO	1.0000	1.000	30.00	30.00	1.000	0.000	NO	100.0	100	0.0001				
211	13C-PCB-111	1.17min	1.02	NO	1.0000	1.000	30.25	30.25	1.000	0.000	NO	100.0	100	0.0072				
217	13C-PCB-128	0.70min	1.26	NO	1.0000	1.000	48.00	48.00	1.000	0.000	NO	100.0	100	0.120				
219	13C-PCB-105	7.20min	0.46	NO	1.0000	1.000	48.43	48.43	0.000	0.000	NO	100.0	100	0.0000				
210	13C-PCB-208	0.80min	0.80	NO	1.0000	1.000	64.00	64.00	1.000	0.000	NO	100.0	100	0.140				
220	13C-PCB-70	1.20min	0.70	NO	1.0000	1.000	37.70	37.70	1.000	1.000	NO	100.0	100	0.0001				
221	13C-PCB-170	7.20min	0.44	NO	0.7000	1.000	48.00	48.00	0.000	0.000	NO	100.0	100	0.0001				
222	13C-PCB-70	1.20min	0.70	NO	1.0000	1.000	37.70	37.70	0.000	0.000	NO	100.0	100	0.0070				
223	13C-PCB-170	7.20min	0.44	NO	1.0000	1.000	48.00	48.00	0.000	0.000	NO	100.0	100	0.0001				
224	Total Non-PCBs				1.0000	1.000	0.00	0.00	0.000	0.000	NO	7.210	0.0210	7.210				

Peak	Retp	RA	dy	RFI	Initial	Final	RT	Peak	RT	Peak	RT	Area	Wt%	EL	BFPC
0	PCB-470	19.00	19.00	0.0000	0.0000	1.000	1.00	NO	4.7700	4.7700					
1	PCB-70	21.41	21.39	2.7200	0.0000	1.000	1.00	NO	4.9400	4.9400					
2	PCB-11	24.82	24.80	2.0000	0.0000	1.000	1.00	NO	2.3070	2.3070					
3	PCB-14	24.81	24.80	4.0000	0.0000	1.000	1.00	NO	2.3070	2.3070					
4	PCB-11	24.82	24.80	4.0000	0.0000	1.000	1.00	NO	2.3070	2.3070					
5	PCB-14	24.81	24.80	4.0000	0.0000	1.000	1.00	NO	2.3070	2.3070					
6	PCB-11	24.82	24.80	4.0000	0.0000	1.000	1.00	NO	2.3070	2.3070					
7	PCB-1203	26.28	26.28	0.2100	0.1100	1.000	1.00	NO	4.7000	4.7000					
8	PCB-16	26.57	26.56	4.0000	2.7000	1.000	1.00	NO	2.4240	2.4240					

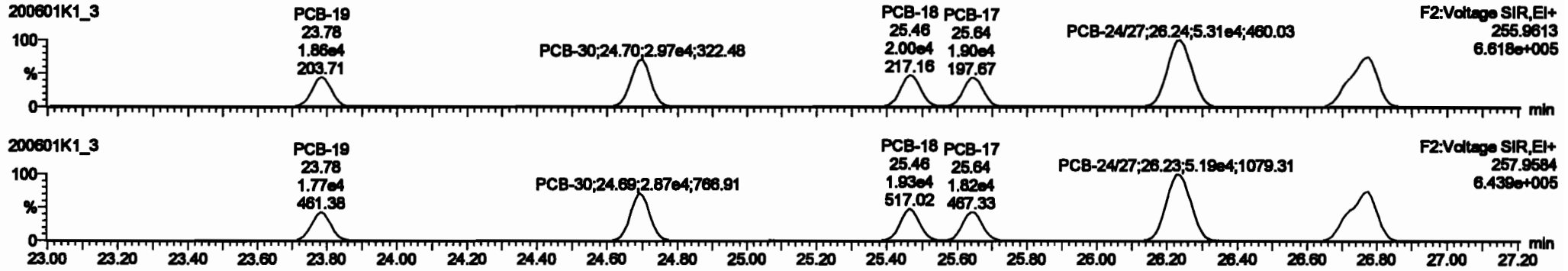


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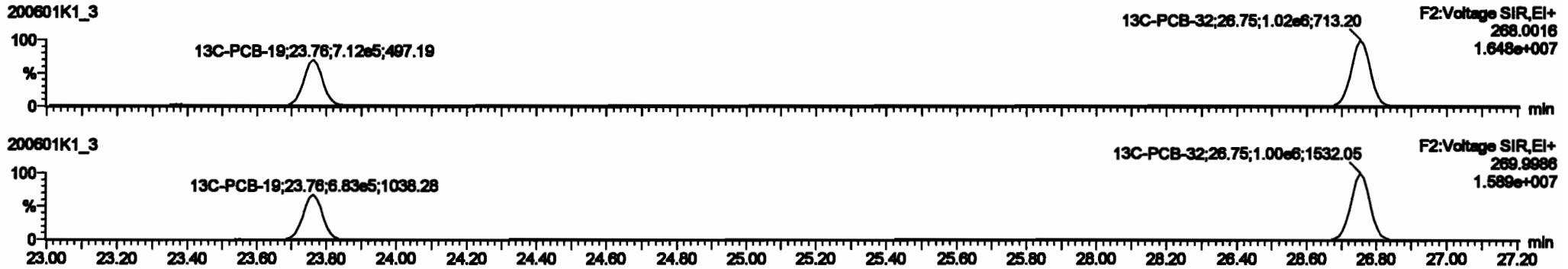
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Name: 200601K1\_3, Date: 01-Jun-2020, Time: 14:19:00, ID: ST200601K1-3 PCB 209 CS2 19G2608, Description: PCB 209 CS2 19G2608

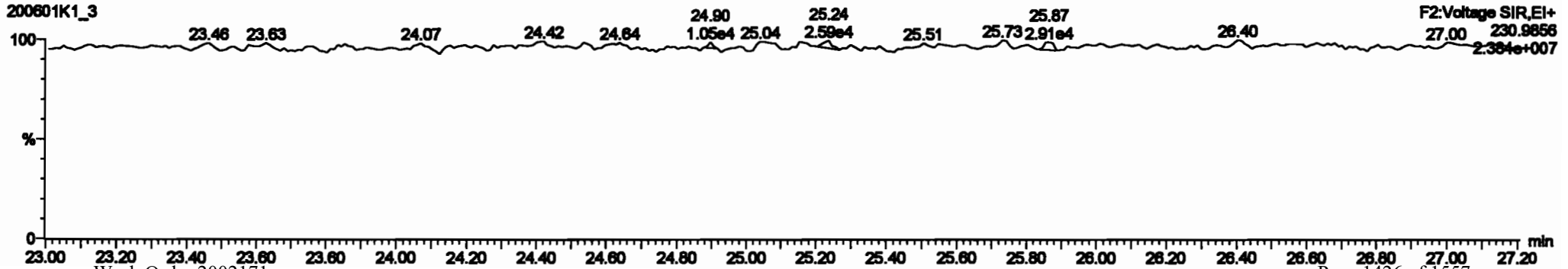
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**13C-PCB-19**

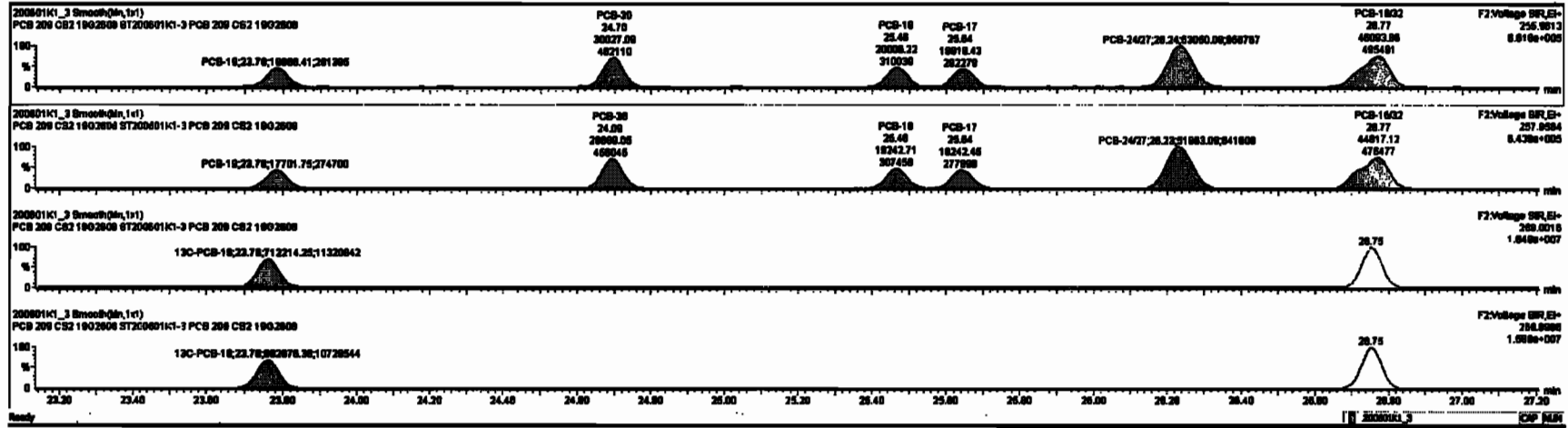


**PFK2b**



Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
216	13C-PCB-80	1.01e6	0.78	NO	1.0000	1.000	26.88	26.88	1.000	0.000	NO	100.0	100	0.0021			
218	13C-PCB-111	1.17e6	1.82	NO	1.0000	1.000	26.26	26.26	1.000	0.000	NO	100.0	100	0.0072			
217	13C-PCB-128	8.76e5	1.25	NO	1.0000	1.000	48.80	48.80	1.000	0.000	NO	100.0	100	0.120			
218	13C-PCB-182	7.28e5	0.48	NO	1.0000	1.000	48.43	48.43	0.000	0.000	NO	100.0	100	0.0033			
218	13C-PCB-205	8.85e5	0.80	NO	1.0000	1.000	64.88	64.88	1.000	0.000	NO	100.0	100	0.148			
220	13C-PCB-76	1.83e6	0.78	NO	1.0000	1.000	37.76	37.76	1.000	1.000	NO	88.47	88.5	0.0091			
221	13C-PCB-478	7.23e5	0.44	NO	8.7685	1.000	46.80	46.80	0.000	0.000	NO	87.23	87.2	0.0062			
220	13C-PCB-76	1.83e6	0.78	NO	1.0021	1.000	37.76	37.76	0.000	0.000	NO	88.87	88.0	0.0094			
220	13C-PCB-478	7.23e5	0.44	NO	1.0038	1.000	46.87	46.88	0.000	0.000	NO	88.16	88.2	0.0062			
220	Total Mono-PCBs				1.1088	1.000	0.00	0.00	0.000	0.000	NO	7.216	88.2	0.0216	7.216		
220	Total Di-PCBs				1.8887	1.000	0.00	0.00	0.000	0.000	NO	28.88	88.2	0.216	28.88		

Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
12	PCB-16	23.78	23.78	1.889e4	1.770e4	1.040	1.04	NO	2.2670	2.2688			
13	PCB-30	24.80	24.78	3.003e4	2.889e4	1.040	1.04	NO	2.2480	2.2481			
14	PCB-16	26.48	26.48	2.001e4	1.824e4	1.040	1.04	NO	2.2700	2.2702			
15	PCB-17	26.84	26.84	1.883e4	1.824e4	1.040	1.04	NO	2.4320	2.4187			
16	PCB-24/27	28.28	28.24	8.208e4	8.788e4	1.040	1.02	NO	4.7880	4.7878			
17	PCB-18/22	28.77	28.77	4.808e4	4.802e4	1.040	1.02	NO	4.8810	4.8810			

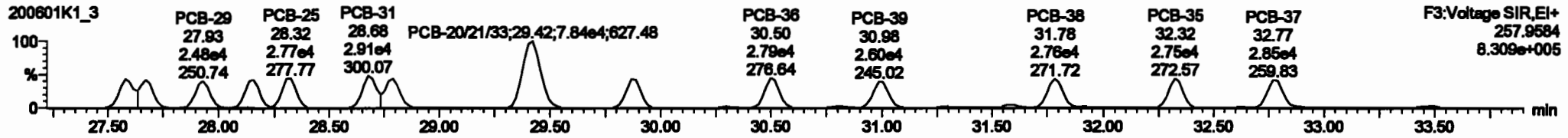
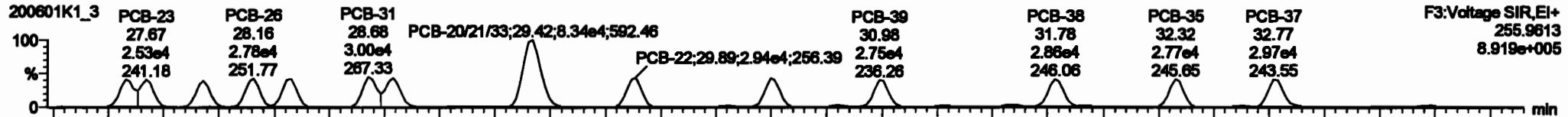


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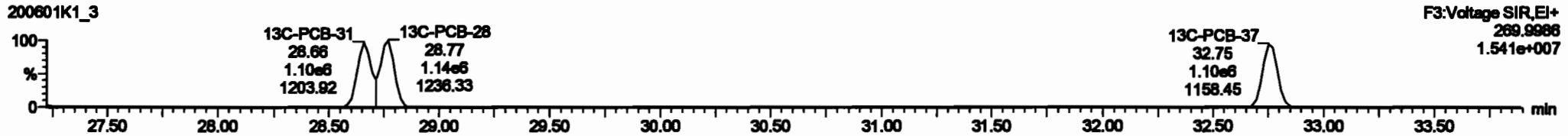
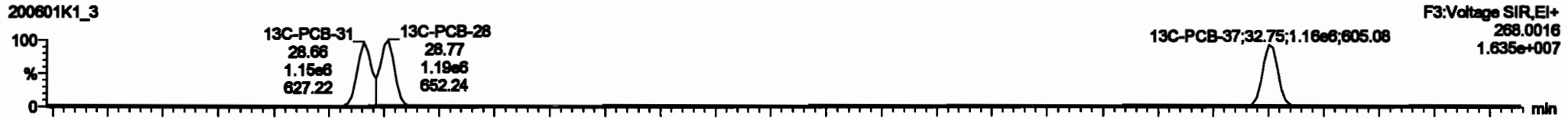
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Name: 200601K1\_3, Date: 01-Jun-2020, Time: 14:19:00, ID: ST200601K1-3 PCB 209 CS2 19G2608, Description: PCB 209 CS2 19G2608

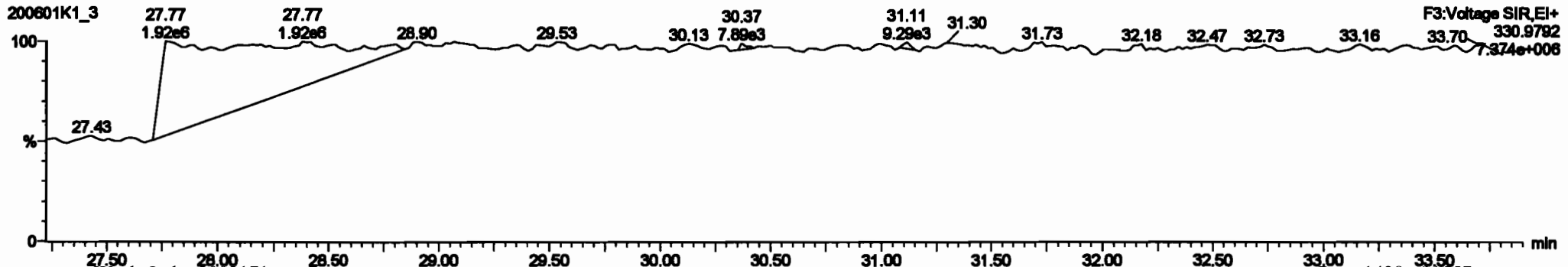
**PCB-34**



**13C-PCB-28**

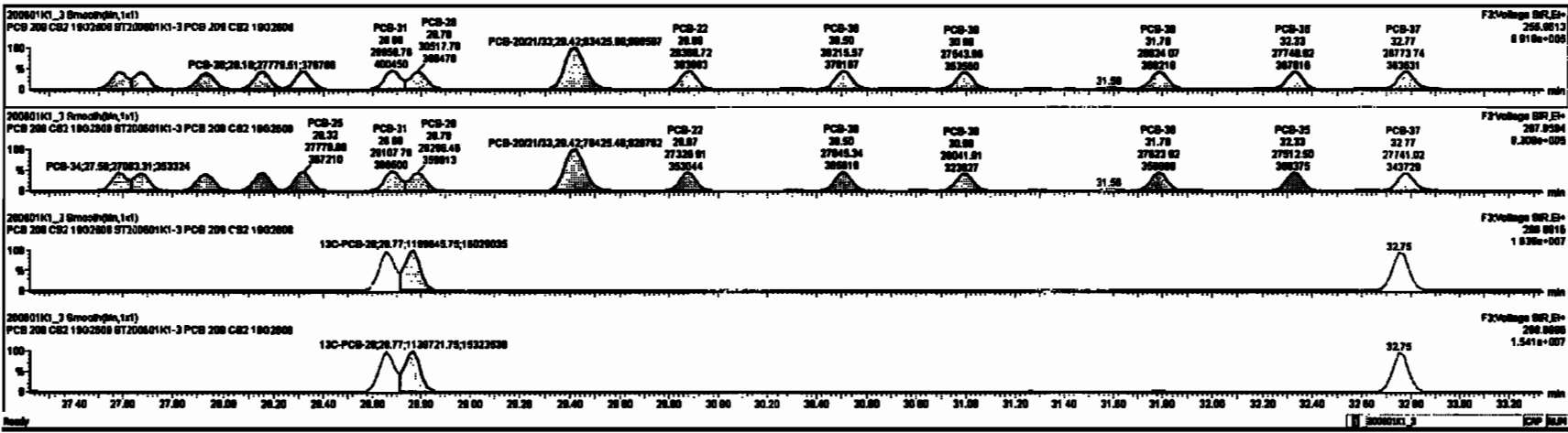


**PFK3d**



#	Name	Range	BA	BY	BP	Calcd	PresID	ST	PresID	NET	NET	Conc.	Units	SL	BPFC
230	Total Yolo-PCBs				1.0776	1.000	0.00	0.000		NO		101.0		0.332	101.0
230	2nd Function Penta-PCBs				1.3197	1.000	0.00	0.000		NO		67.60		0.591	67.60
230	4th Function Penta-PCBs				1.0736	1.000	0.00	0.000		NO		12.19		0.0976	12.19
230	2nd Function Hepta-PCBs				0.8808	1.000	0.00	0.000		NO		32.80		0.0976	32.80
230	4th Function Hepta-PCBs				1.0018	1.000	0.00	0.000		NO		66.73		0.272	66.73
230	Total Hxlo-PCBs				1.3091	1.000	0.00	0.000		NO		67.74		0.488	67.74
230	4th Function Octa-PCBs				1.0000	1.000	0.00	0.000		NO		21.80		0.0000	21.80
230	6th Function Octa-PCBs				1.1488	1.000	0.00	0.000		NO		6.674		0.0043	6.674
230	Total Nona-PCBs				0.0000	1.000	0.00	0.000		NO		7.264		0.0007	7.264
230	2nd Deca-PCBs				0.0004	1.000	0.00	0.000		NO		2.430		0.0002	2.430
230	Total PCBs														

#	Name	PresID	Int Range	F-20 Range	FP Range (min)	BA	BY	BP	Conc.
18	PCB-24	27.80	27.80	2.780e4	2.780e4	1.040	1.02	NO	2.4840
19	PCB-25	27.87	27.87	2.630e4	2.630e4	1.040	1.04	NO	2.4000
20	PCB-26	27.93	27.93	2.690e4	2.690e4	1.040	1.01	NO	2.4300
21	PCB-28	28.10	28.10	2.770e4	2.890e4	1.040	1.07	NO	2.4400
22	PCB-28	28.31	28.32	2.870e4	2.770e4	1.040	1.03	NO	2.8000
23	PCB-31	28.60	28.60	2.880e4	2.810e4	1.040	1.03	NO	2.4070
24	PCB-28	28.70	28.70	2.850e4	2.850e4	1.040	1.00	NO	2.4000
25	PCB-20/21/43	28.40	28.40	6.740e4	7.840e4	1.040	1.00	NO	7.2600
26	PCB-22	28.67	28.68	2.890e4	2.720e4	1.040	1.00	NO	2.6000



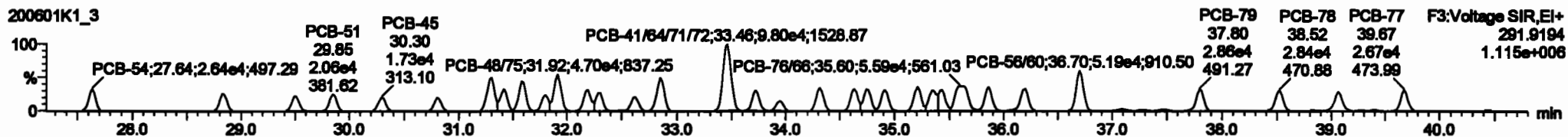
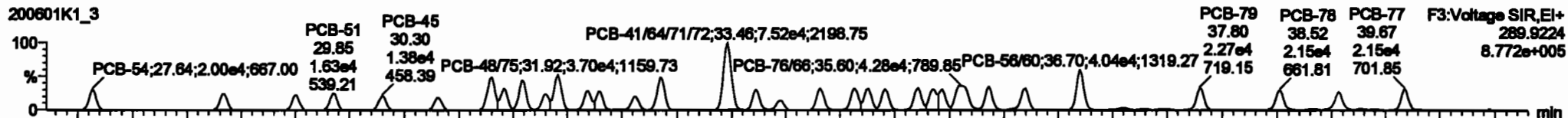
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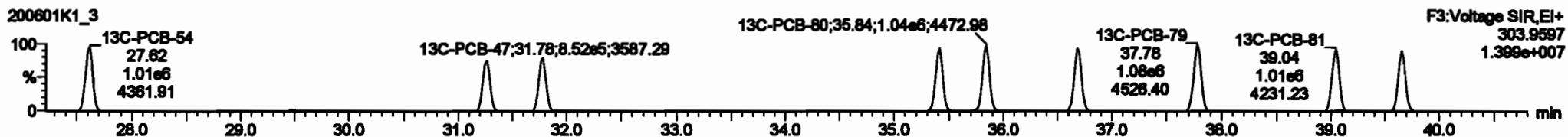
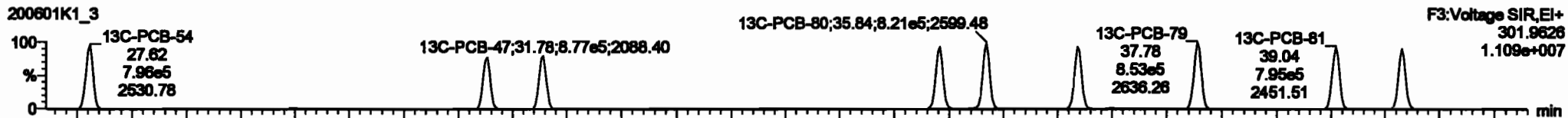
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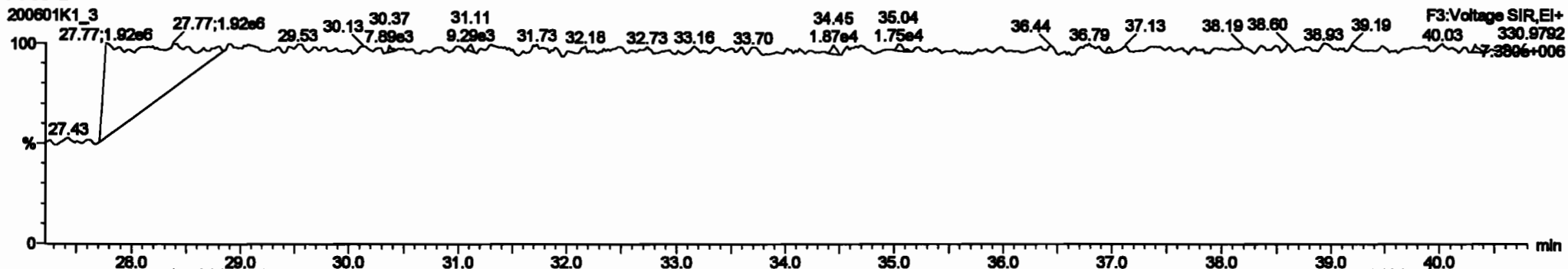
PCB-54



13C-PCB-54



PFK3a



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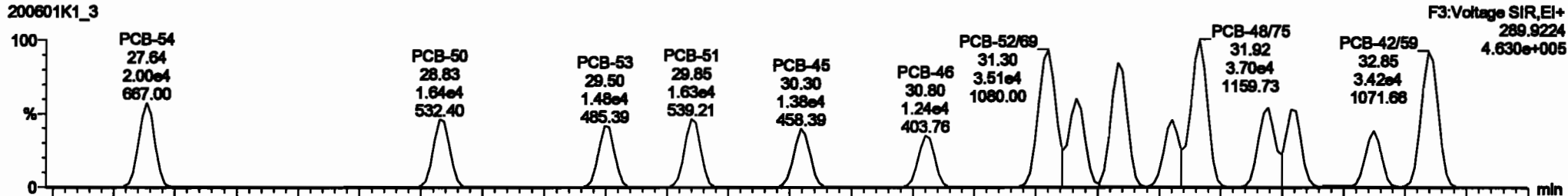
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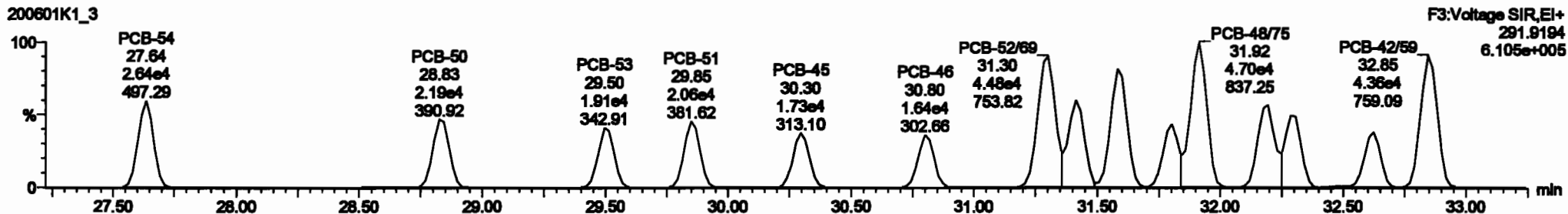
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**PCB-50**

200601K1\_3

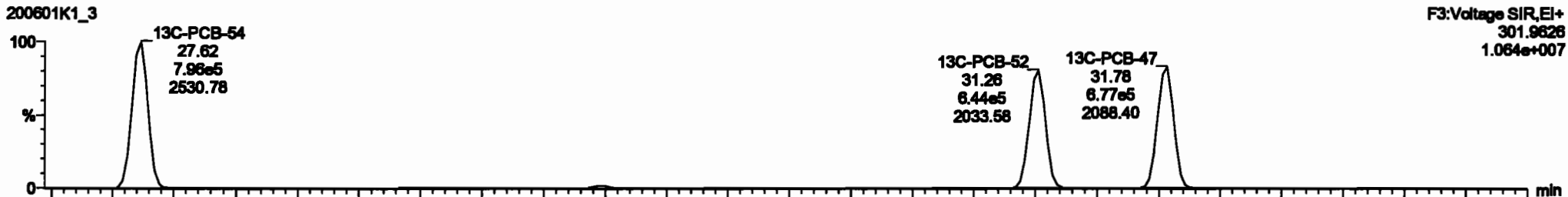


200601K1\_3

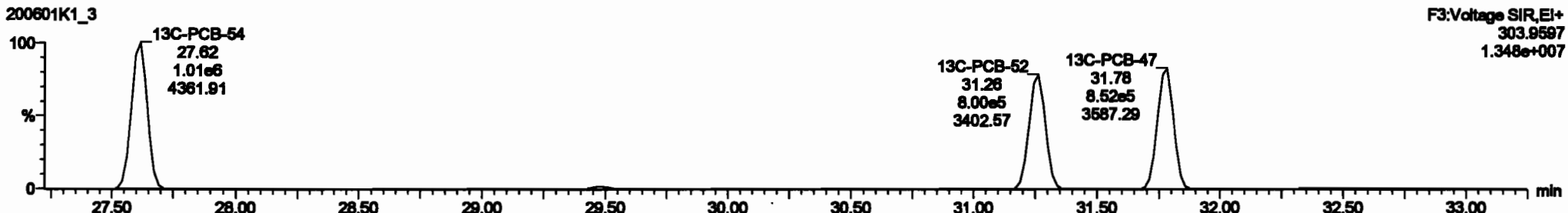


**13C-PCB-52**

200601K1\_3



200601K1\_3



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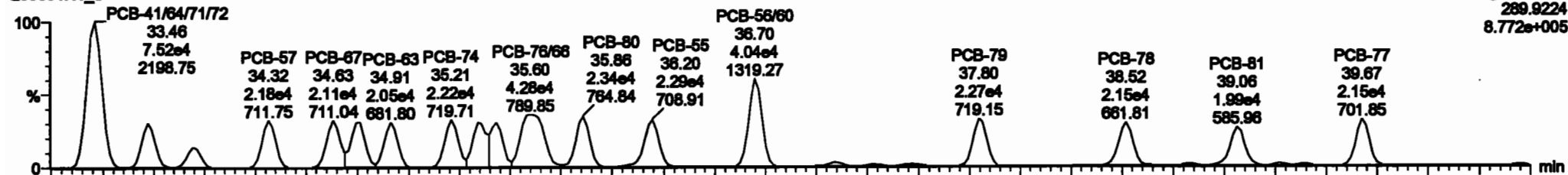
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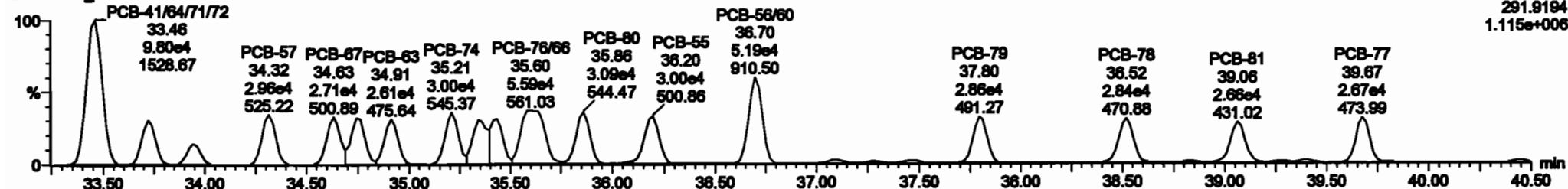
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PCB-68

200601K1\_3

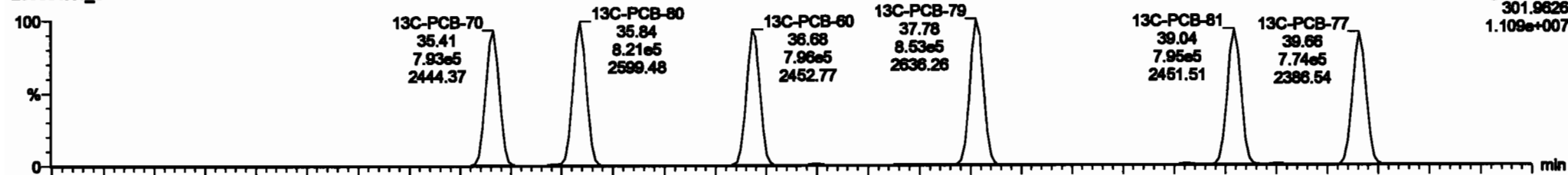


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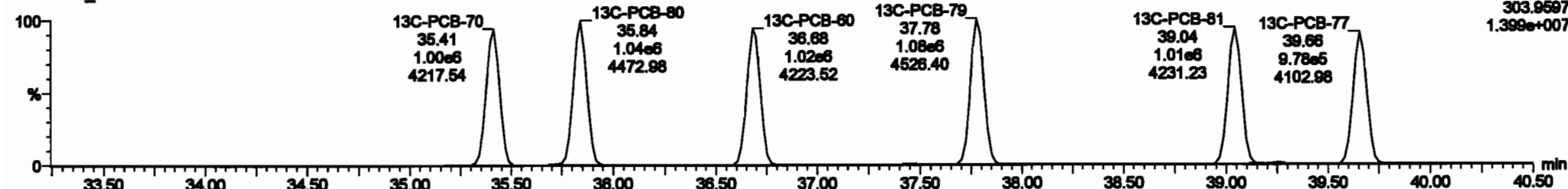


13C-PCB-60

200601K1\_3



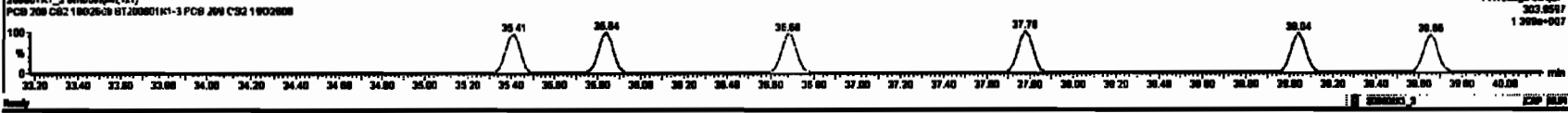
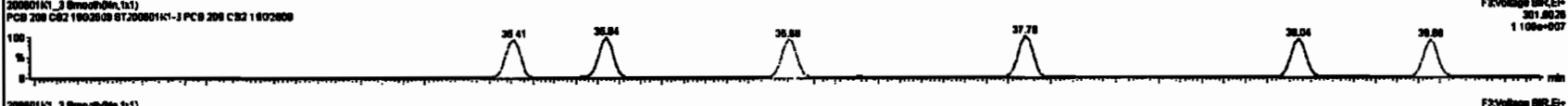
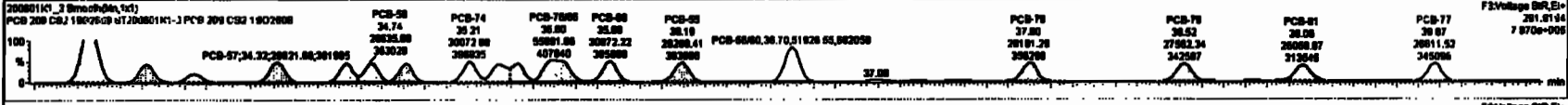
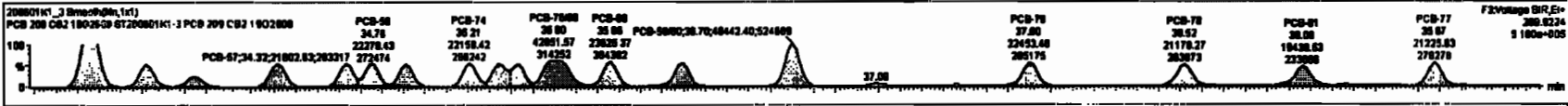
200601K1\_3





#	Name	Resp	RA	Rely	Off	valued	Residual	ST	Preval	WT	HT	Fail	Com.	SP	RP	MR	MRP
227	2nd Puriton Tri-PCBs				0.0020	1.000	0.00	0.000	0.000	MD			38.04	0.204	38.01		
228	3rd Puriton Tri-PCBs				1.2187	1.000	0.00	0.000	0.000	MD			37.83	0.371	37.80		
229	4th Puriton Tri-PCBs				1.0736	1.000	0.00	0.000	0.000	MD			12.18	0.070	12.18		
230	1st Puriton Hexa-PCBs				0.0000	1.000	0.00	0.000	0.000	MD			33.88	0.000	33.88		
231	2nd Puriton Hexa-PCBs				1.0016	1.000	0.00	0.000	0.000	MD			38.73	0.372	38.70		
232	3rd Puriton Hexa-PCBs				1.3881	1.000	0.00	0.000	0.000	MD			37.74	0.488	37.74		
233	4th Puriton Hexa-PCBs				1.0000	1.000	0.00	0.000	0.000	MD			21.88	0.000	21.88		
234	5th Puriton Hexa-PCBs				1.1488	1.000	0.00	0.000	0.000	MD			38.94	0.094	38.94		
235	Total Hexa-PCBs				0.0020	1.000	0.00	0.000	0.000	MD			7.284	0.007	7.284		
236	Sum-CB				0.0004	1.000	0.00	0.000	0.000	MD			2.423	0.007	2.423		

#	Name	Preval	WT	HT	Off	valued	Residual	ST	Preval	WT	HT	Fail	Com.	SP	RP	MR	MRP
30	PCB-81	27.84	27.84	1.888e4	2.888e4	0.770	0.76	MD	2.3770	2.3771							
31	PCB-82	28.80	28.80	1.888e4	2.888e4	0.770	0.76	MD	2.6140	2.6139							
32	PCB-83	28.80	28.80	1.888e4	2.888e4	0.770	0.76	MD	2.3880	2.3848							
33	PCB-84	28.80	28.80	1.888e4	2.888e4	0.770	0.76	MD	2.3880	2.3876							
34	PCB-85	30.30	30.30	1.377e4	1.730e4	0.770	0.80	MD	2.8070	2.8076							
35	PCB-86	30.30	30.30	1.377e4	1.730e4	0.770	0.79	MD	2.8080	2.8016							
36	PCB-87	31.30	31.30	1.813e4	4.670e4	0.770	0.78	MD	4.7420	4.7426							
37	PCB-72	31.41	31.41	2.158e4	2.784e4	0.770	0.77	MD	2.3830	2.3833							
38	PCB-49B	31.88	31.88	3.028e4	7.882e4	0.770	0.78	MD	4.8820	4.8818							



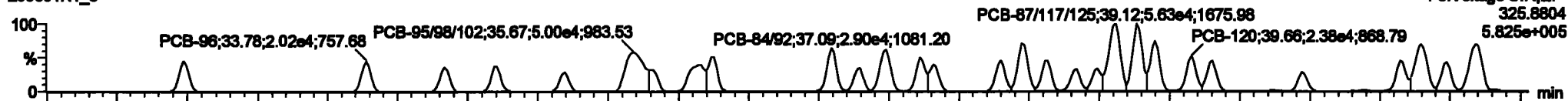
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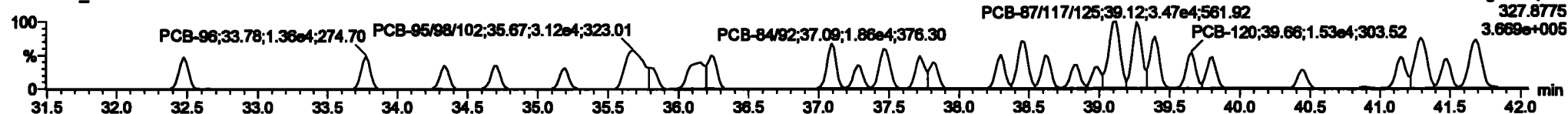
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**PCB-104**

200601K1\_3

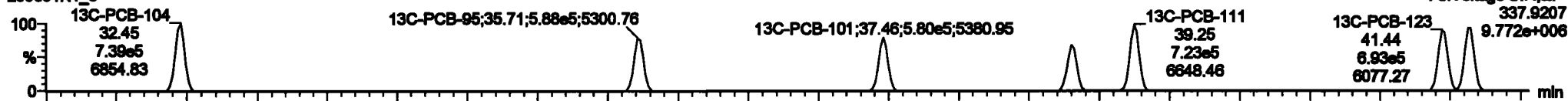


200601K1\_3

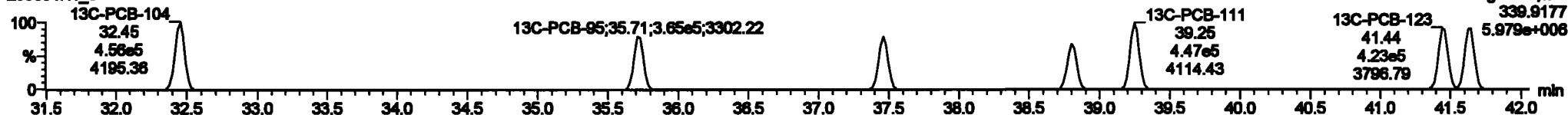


**13C-PCB-104**

200601K1\_3

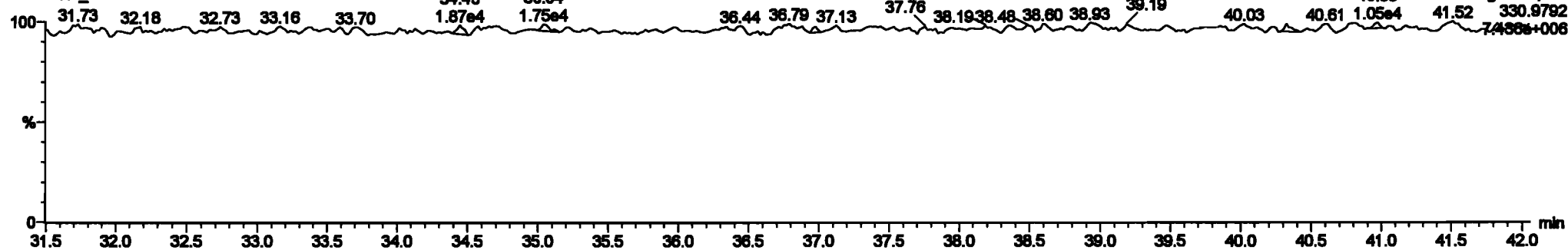


200601K1\_3



**PFK3b**

200601K1\_3

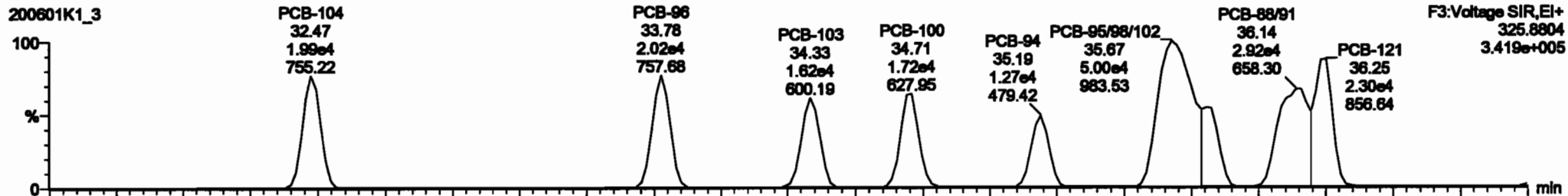


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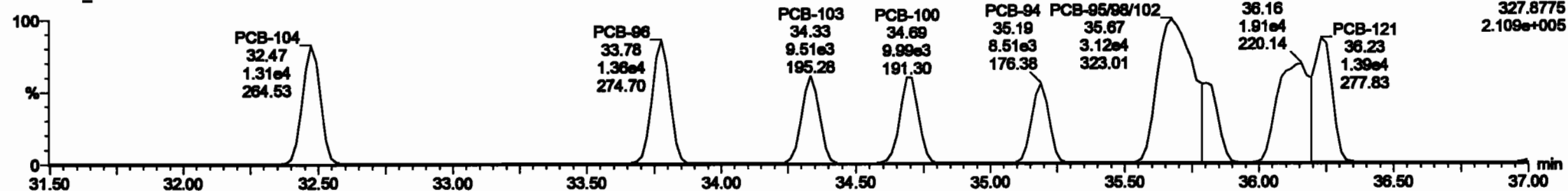
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**PCB-96**



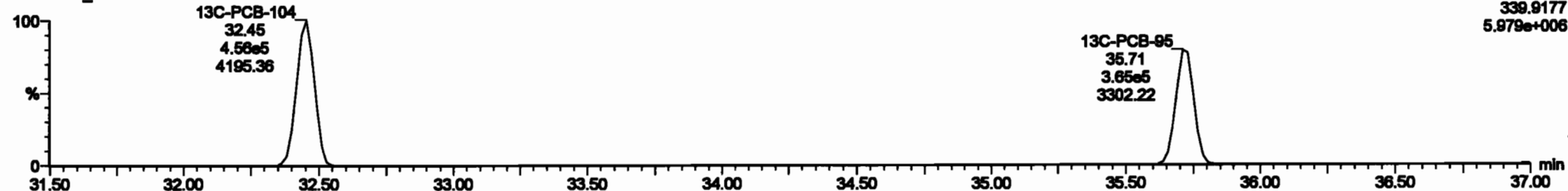
200601K1\_3



**13C-PCB-95**



200601K1\_3



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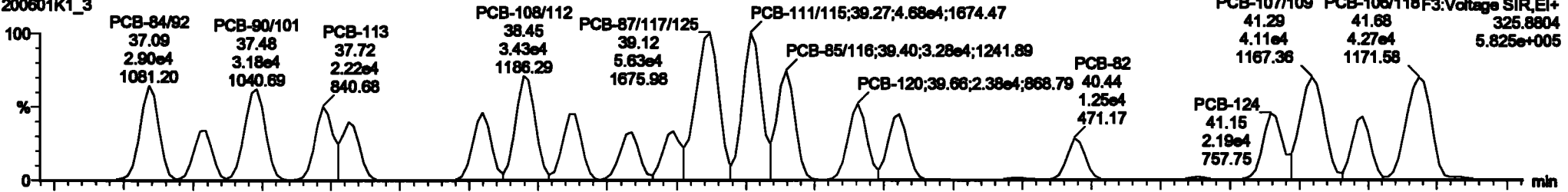
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

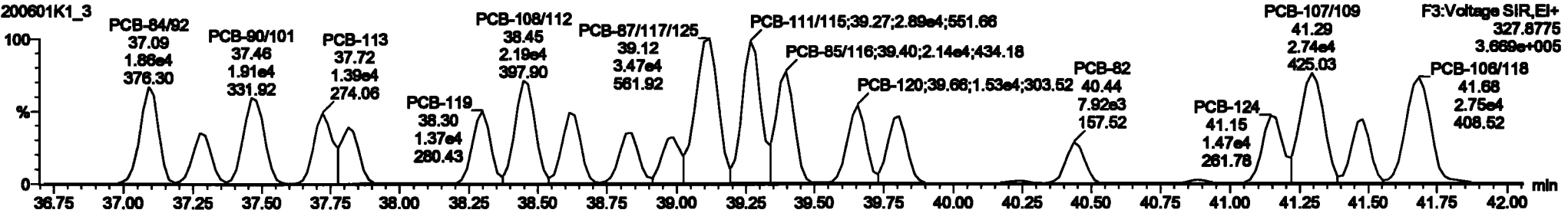
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PCB-119

200601K1\_3

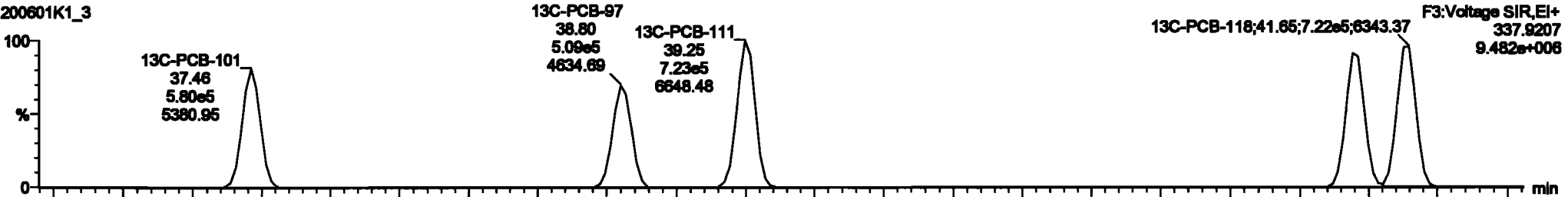


200601K1\_3

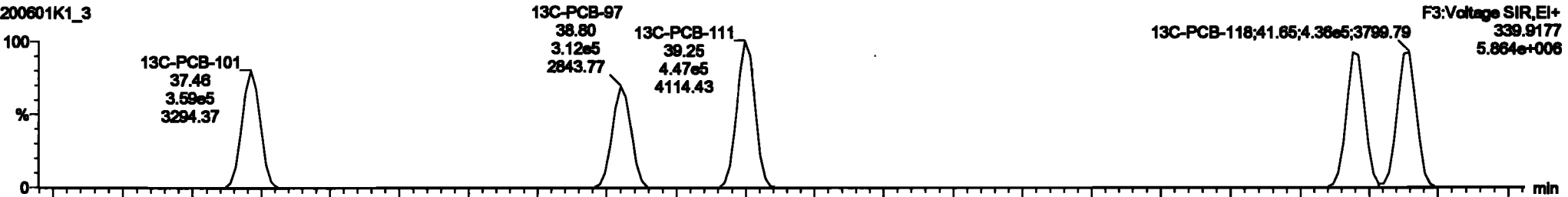


13C-PCB-111

200601K1\_3



200601K1\_3



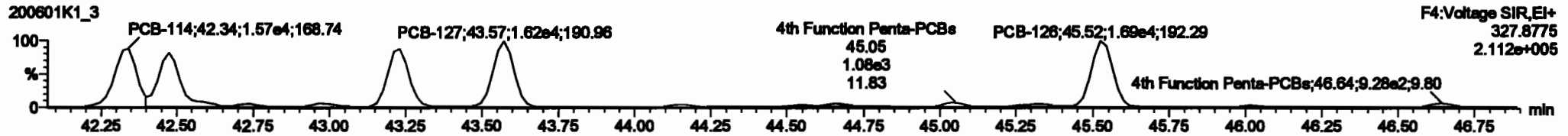
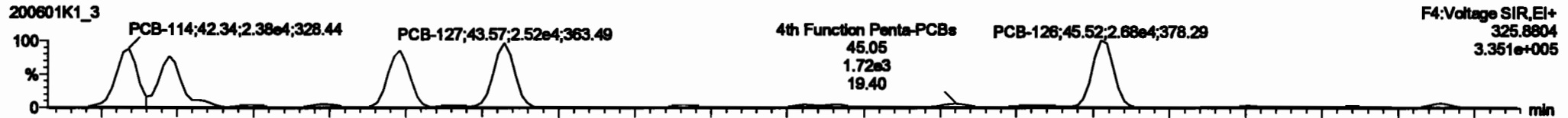


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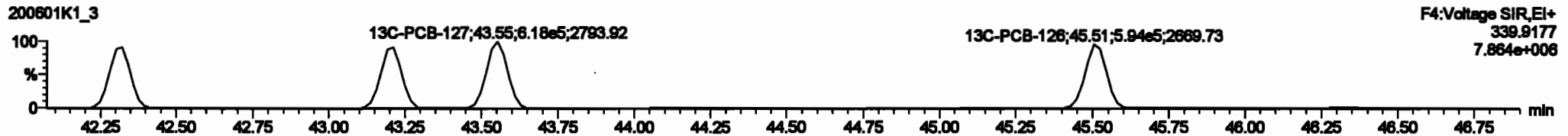
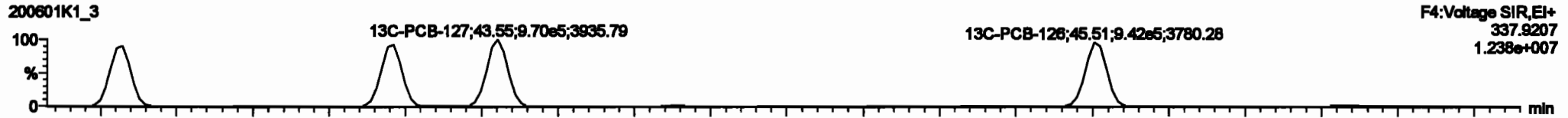
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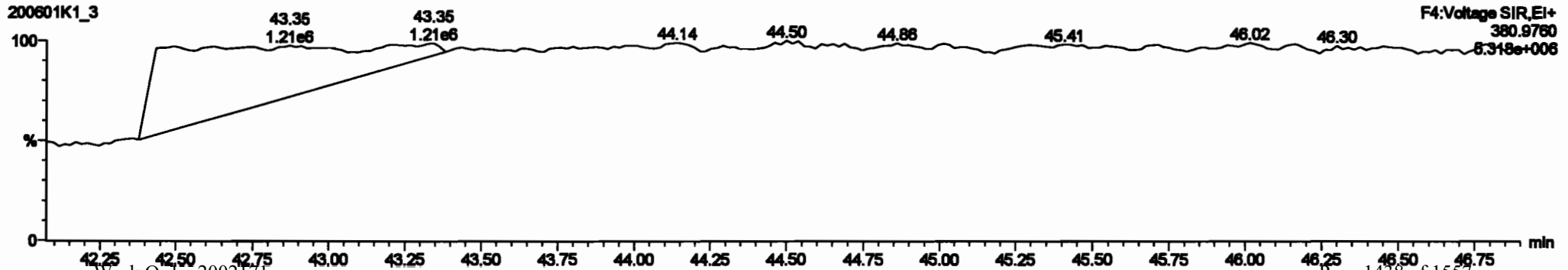
**PCB-114**



**13C-PCB-114**

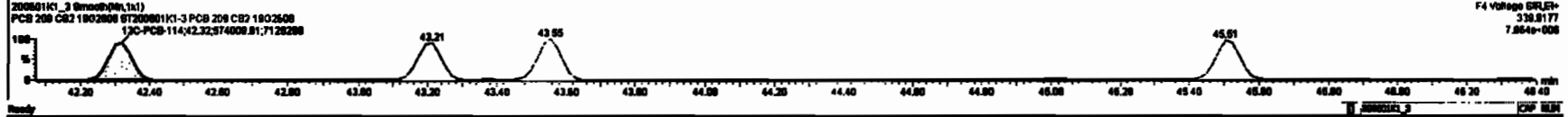
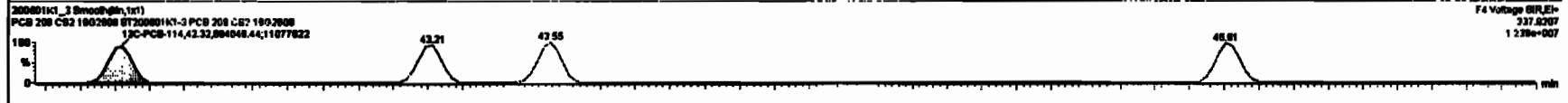
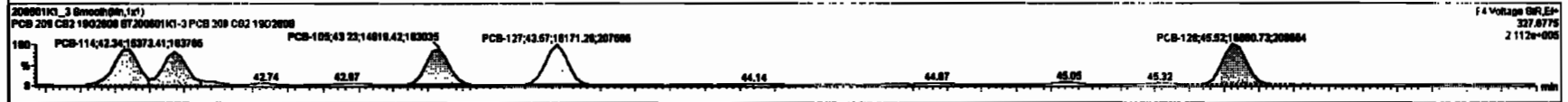
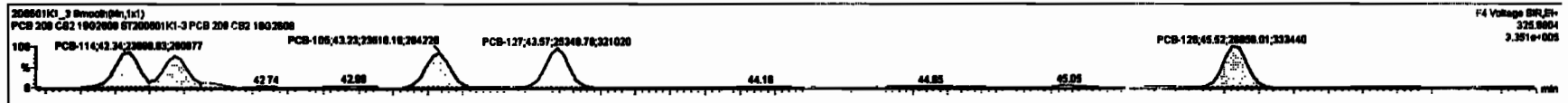


**PFK4a**



#	Name	Range	RA	dy	RF	Initial	ProdRT	RT	ProdR	RFY	ProdF	Chm	SPM	SL	BPFC
227	2nd Function Tri-PCBs				0.0000	1.000	0.00	0.000	0.000	NO	38.01		0.284	38.01	
228	Total Yolo-PCBs				1.0776	1.000	0.00	0.000	0.000	NO	101.0		0.222	101.0	
229	2nd Function Para-PCBs				1.2167	1.000	0.00	0.000	0.000	NO	67.02		0.271	67.02	
230	2nd Function Ortho-PCBs				0.0000	1.000	0.00	0.000	0.000	NO	15.00		0.000	15.00	
231	2nd Function Meta-PCBs				0.0000	1.000	0.00	0.000	0.000	NO	32.99		0.000	32.99	
232	4th Function Meta-PCBs				1.0218	1.000	0.00	0.000	0.000	NO	68.73		0.272	68.73	
233	Total Hepta-PCBs				1.2091	1.000	0.00	0.000	0.000	NO	67.74		0.406	67.74	
234	4th Function Ortho-PCBs				1.0000	1.000	0.00	0.000	0.000	NO	21.86		0.000	21.86	
235	4th Function Para-PCBs				1.1480	1.000	0.00	0.000	0.000	NO	6.674		0.000	6.674	
236	Total Hexa-PCBs				0.0000	1.000	0.00	0.000	0.000	NO	7.284		0.000	7.284	
237	Total PCBs				0.0000	1.000	0.00	0.000	0.000	NO	2.420		0.000	2.420	

#	Name	ProdRT	RT	RF	RFY	ProdF	Chm	SPM	SL	BPFC
80	PCB-114	42.34	42.34	2.370e4	1.000e4	1.000	1.04	NO	2.320	2.320
84	PCB-122	42.48	42.47	2.122e4	1.370e4	1.000	1.04	NO	2.020	2.020
86	PCB-105	43.20	43.20	2.382e4	1.600e4	1.000	1.00	NO	2.400	2.400
88	PCB-127	43.67	43.67	2.000e4	1.017e4	1.000	1.07	NO	2.000	2.000
89	PCB-126	45.52	45.52	2.000e4	1.000e4	1.000	1.01	NO	2.010	2.010



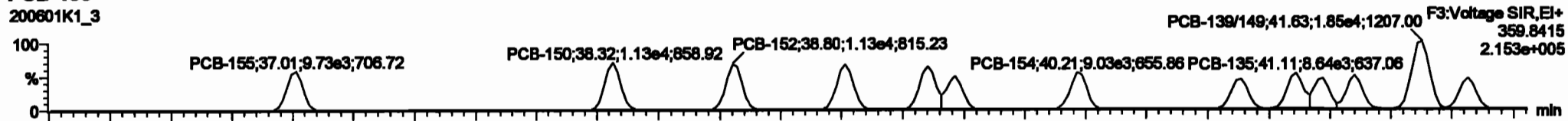
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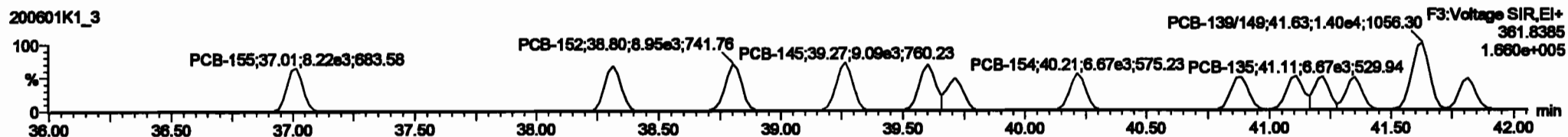
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**PCB-155**

200601K1\_3



200601K1\_3

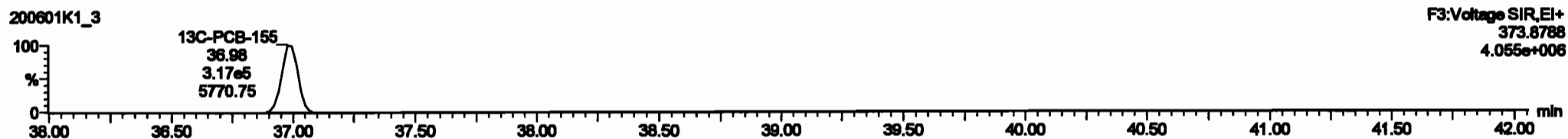


**13C-PCB-155**

200601K1\_3

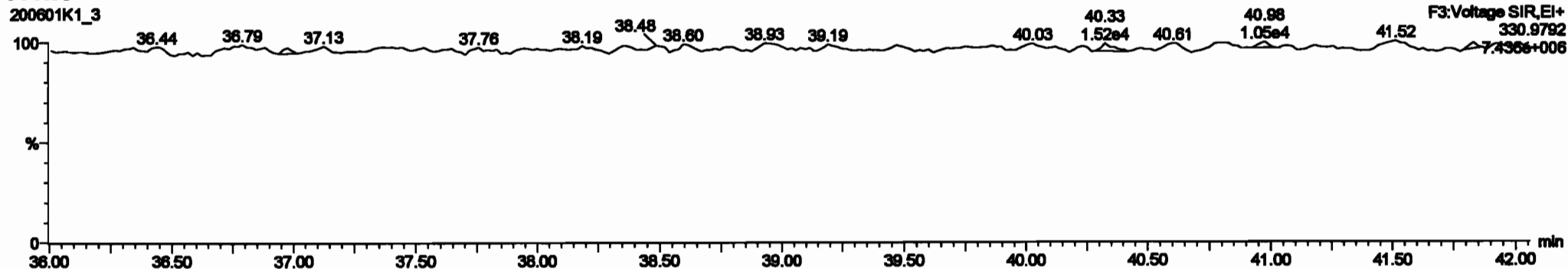


200601K1\_3



**PFK3c**

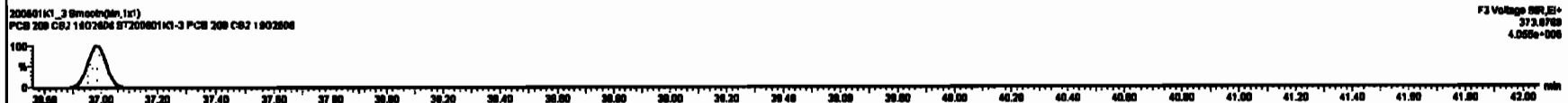
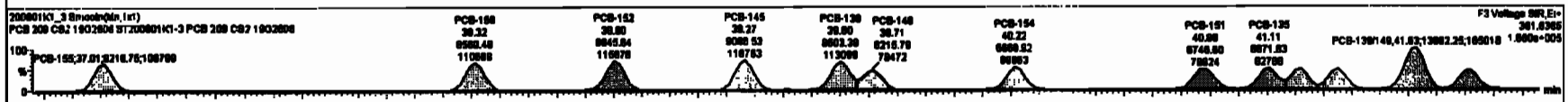
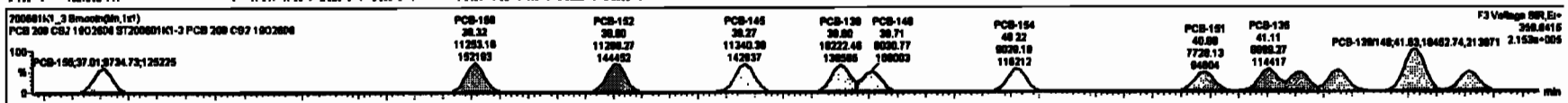
200601K1\_3





#	Name	Resp	RA	inj	FW	width	PeakOff	RT	PeakOff	FW	WRT Off	Comp. Area	Area	Height
227	2nd Puriton TH-PCBs				0.000	1.000	0.000	NO	38.01			0.284	38.01	
228	Total Tetra-PCBs				1.0770	1.000	0.000	NO	101.0			0.322	101.0	
229	2nd Puriton Penta-PCBs				1.2497	1.000	0.000	NO	67.82			0.371	67.82	
230	4th Puriton Penta-PCBs				1.0736	1.000	0.000	NO	12.18			0.0870	12.18	
231	2nd Puriton Hexa-PCBs				0.0000	1.000	0.000	NO	0.0000			0.0000	0.0000	
232	4th Puriton Hexa-PCBs				1.0018	1.000	0.000	NO	68.73			0.272	68.73	
233	Total Hepta-PCBs				1.2681	1.000	0.000	NO	67.74			0.488	67.74	
234	234 4th Puriton Octa-PCBs				1.0000	1.000	0.000	NO	21.80			0.0800	21.80	
235	235 5th Puriton Octa-PCBs				1.1488	1.000	0.000	NO	8.874			0.0843	8.874	
236	Total Nona-PCBs				0.0000	1.000	0.000	NO	7.264			0.0007	7.264	
237	237 Deca-CD				0.0004	1.000	0.000	NO	2.420			0.0000	2.420	
238	238 Total PCBs													

#	Name	PeakOff	RT	inj Resp	std Resp	F <sup>2</sup> Ratio (Peak)	RA	inj	FWPC	Comp. Area
1	100 PCB-158	37.01	37.01	0.720e3	0.217e3	1.240	1.18	NO	2.3300	2.3300
2	100 PCB-160	38.30	38.32	1.120e4	0.880e3	1.240	1.32	NO	2.4800	2.4800
3	100 PCB-162	38.80	38.80	1.120e4	0.840e3	1.240	1.28	NO	2.3100	2.3170
4	101 PCB-148	38.20	38.27	1.120e4	0.887e3	1.240	1.26	NO	2.3200	2.3280
5	100 PCB-138	38.80	38.80	1.020e4	0.800e3	1.240	1.20	NO	2.4000	2.4000
6	100 PCB-140	38.72	38.71	0.801e3	0.210e3	1.240	1.20	NO	2.3010	2.3007
7	104 PCB-164	40.20	40.22	0.800e3	0.880e3	1.240	1.38	NO	2.3220	2.3217
8	100 PCB-161	40.80	40.80	7.720e3	0.247e3	1.240	1.14	NO	2.8010	2.8012
9	100 PCB-135	41.12	41.11	0.880e3	0.872e3	1.240	1.20	NO	2.2880	2.2898



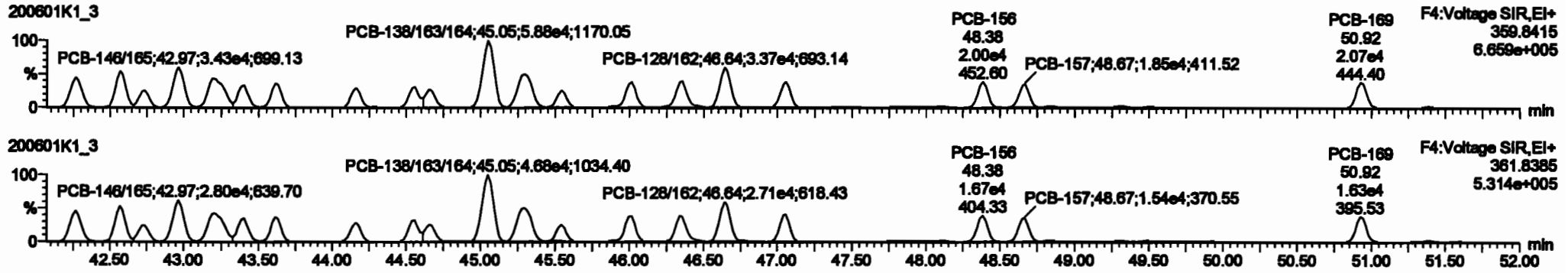
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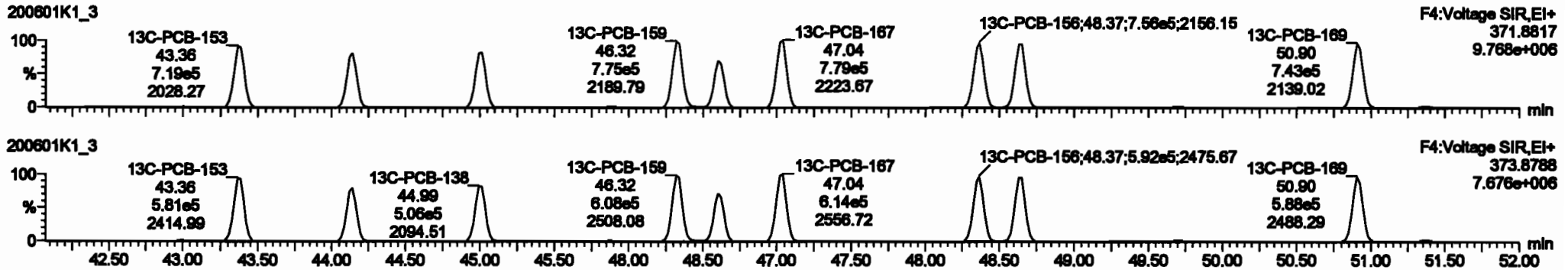
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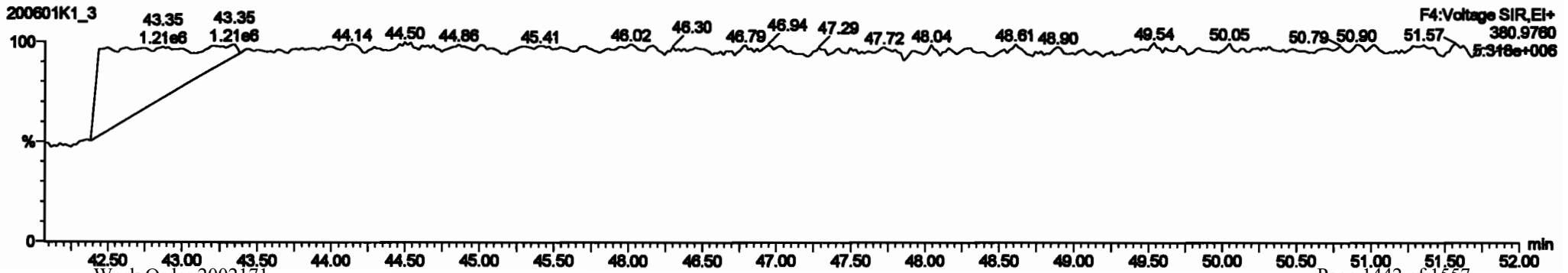
PCB-134/143



13C-PCB-153

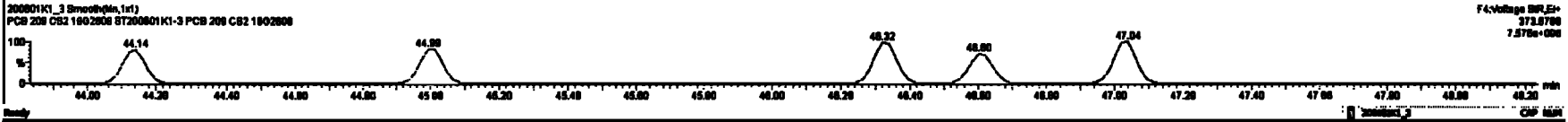
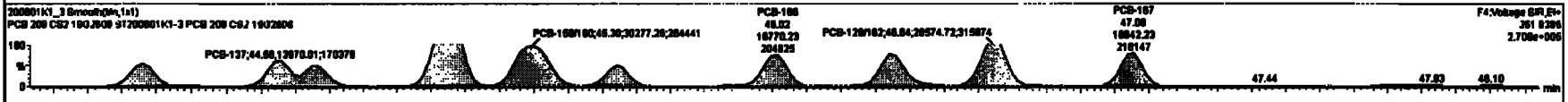
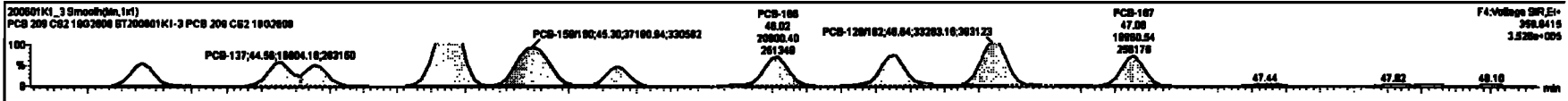


PFK4b



#	Comp	Comp	BA	Qty	Unit	Weight	Preval	OT	Preval	OT	Preval	OT	Preval	OT	Preval	OT	Preval	OT
227	2nd Function Tri-PCBs					0.0028	1.000	0.00	0.000		NO	38.01	0.284	38.01				
228	Total Tri-PCBs					1.0776	1.000	0.00	0.000		NO	101.0	0.322	101.0				
229	3rd Function Penta-PCBs					1.3187	1.000	0.00	0.000		NO	87.82	0.371	87.82				
230	Total Penta-PCBs					1.0726	1.000	0.00	0.000		NO	12.18	0.0079	12.18				
231	3rd Function Hexa-PCBs					0.0000	1.000	0.00	0.000		NO	32.89	0.0079	32.89				
232	Total Hexa-PCBs					1.0000	1.000	0.00	0.000		NO	87.74	0.488	87.74				
233	Total Hepta-PCBs					1.0000	1.000	0.00	0.000		NO	21.89	0.0000	21.89				
234	4th Function Octa-PCBs					1.1488	1.000	0.00	0.000		NO	8.874	0.0043	8.874				
235	Total Octa-PCBs					0.0023	1.000	0.00	0.000		NO	7.384	0.0007	7.384				
236	Deca-CB					0.0004	1.000	0.00	0.000		NO	2.423	0.0000	2.423				
237	Total PCBs																	

#	Comp	Comp	BA	Qty	Unit	Weight	Preval	OT	Preval	OT	Preval	OT	Preval	OT	Preval	OT	Preval	OT
111	PCB-134/A3			42.28	42.28	2.620e4	2.61e4		1.26	1.26	NO	4.6370	4.6388					
112	PCB-131/A30			42.88	42.87	2.897e4	2.882e4		1.26	1.26	NO	4.7070	4.7068					
113	PCB-142			42.72	42.74	1.217e4	1.088e4		1.26	1.26	NO	3.4220	3.4218					
114	PCB-146/A05			42.87	42.87	3.428e4	2.894e4		1.26	1.22	NO	4.7180	4.7180					
115	PCB-132/A01			43.20	43.18	3.813e4	3.738e4		1.26	1.28	NO	4.8890	4.8893					
116	PCB-140			43.38	43.40	1.777e4	1.610e4		1.26	1.18	NO	3.3880	3.3890					
117	PCB-148			43.81	43.81	1.888e4	1.822e4		1.26	1.28	NO	3.4180	3.4178					
118	PCB-141			44.18	44.18	1.489e4	1.230e4		1.26	1.28	NO	2.4080	2.4084					
119	PCB-137			44.80	44.88	1.888e4	1.389e4		1.26	1.18	NO	2.8870	2.8888					

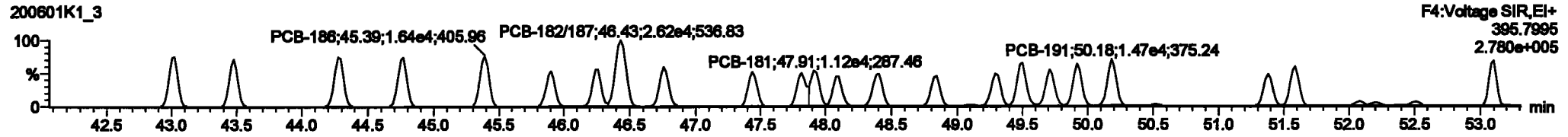
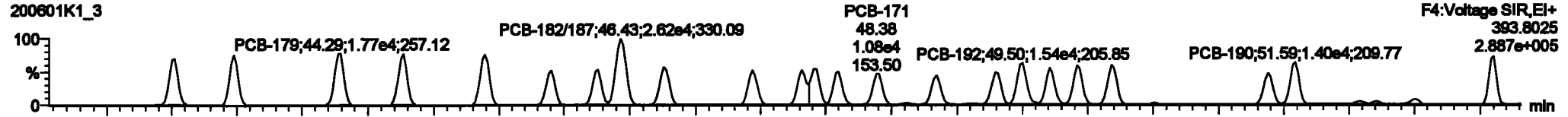


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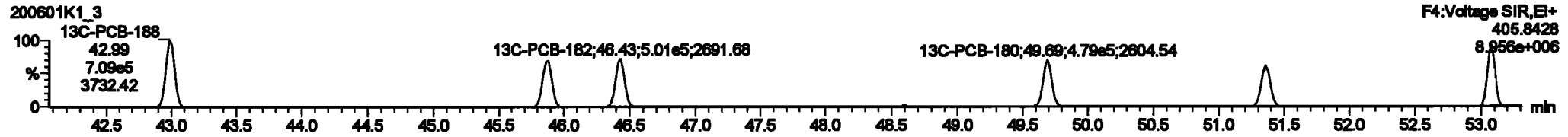
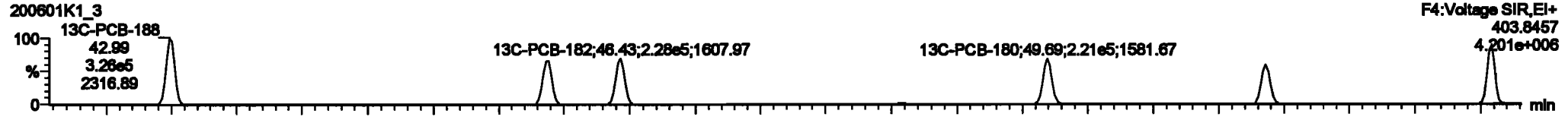
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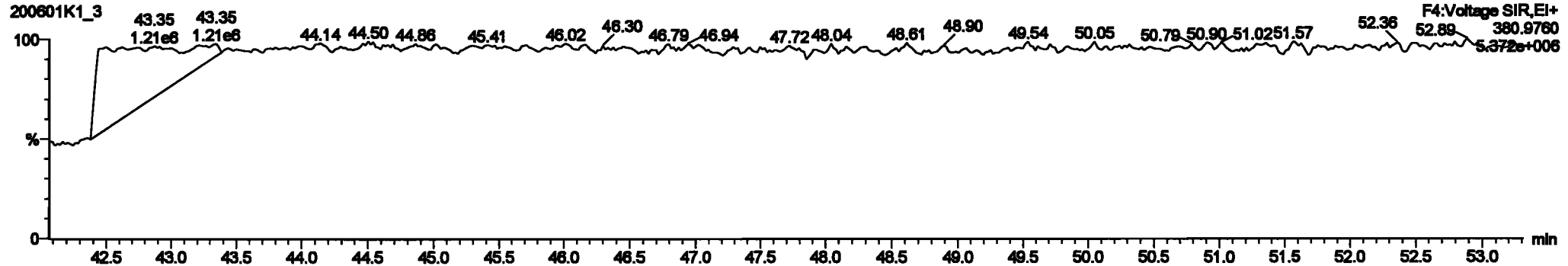
**PCB-188**



**13C-PCB-188**



**PFK4c**



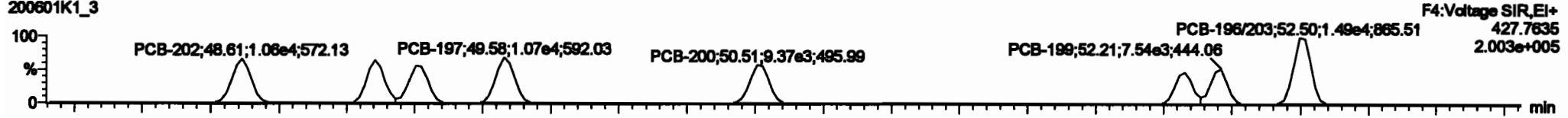


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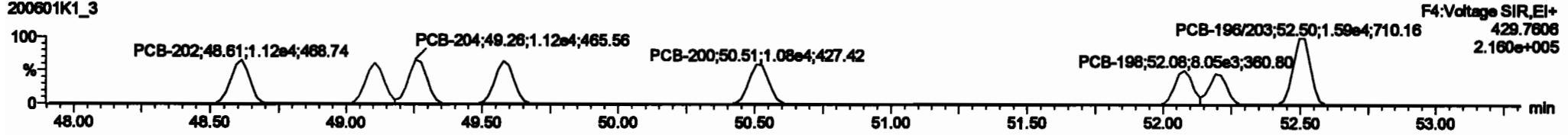
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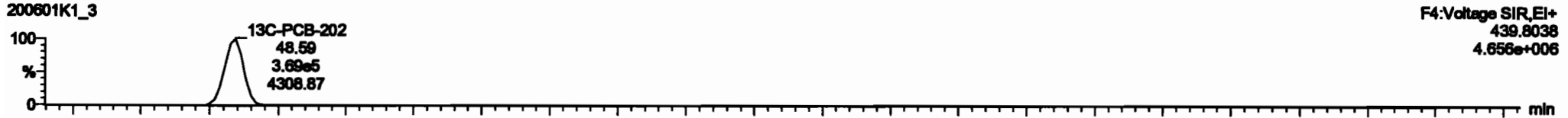
PCB-202  
200601K1\_3



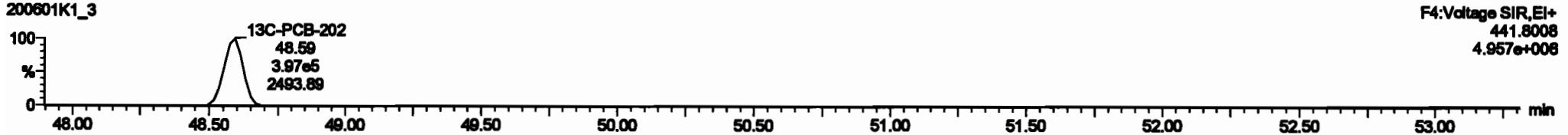
200601K1\_3



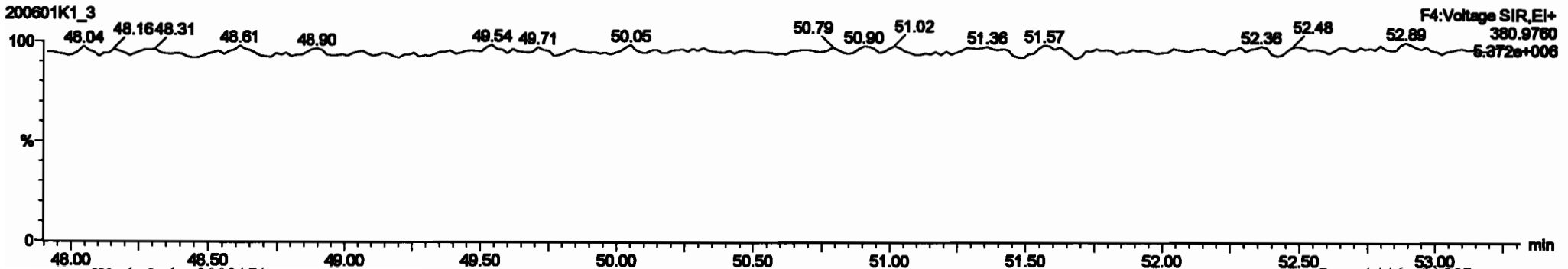
13C-PCB-202



200601K1\_3

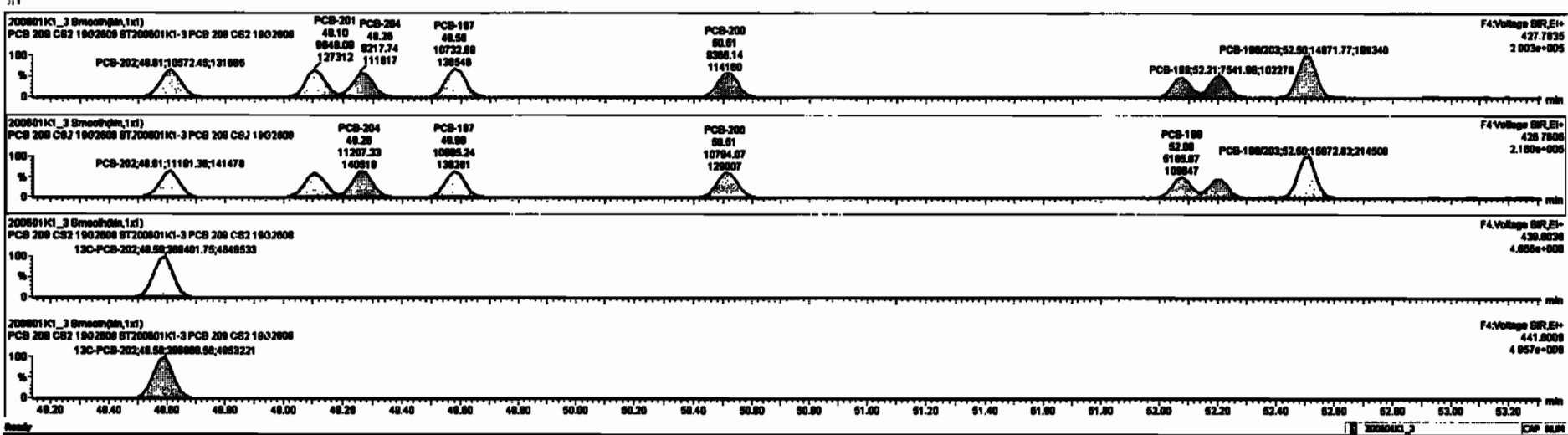


PFK4d



#	Name	Qty	RA	Qty	Unit	Value	Value	Unit	Value	Unit	Value	Unit	Value	Unit
227	2nd Function TM-PCBs					0.0000	1.000	0.00	0.000	NO	30.01	0.304	30.01	
228	Total Tubs-PCBs					1.0776	1.000	0.00	0.000	NO	101.0	0.322	101.0	
229	2nd Function Para-PCBs					1.3167	1.000	0.00	0.000	NO	67.62	0.371	67.62	
230	4th Function Para-PCBs					1.0735	1.000	0.00	0.000	NO	12.18	0.0070	12.18	
231	2nd Function Hase-PCBs					0.0000	1.000	0.00	0.000	NO	32.80	0.0070	32.80	
232	4th Function Hase-PCBs					1.0316	1.000	0.00	0.000	NO	68.73	0.272	68.73	
233	Total Hase-PCBs					1.3001	1.000	0.00	0.000	NO	57.74	0.400	57.74	
234	2nd Function Ode-PCBs					1.0000	1.000	0.00	0.000	NO	31.80	0.0000	31.80	
235	8th Function Ode-PCBs					1.4488	1.000	0.00	0.000	NO	6.974	0.0043	6.974	
236	Total Ode-PCBs					0.0000	1.000	0.00	0.000	NO	7.304	0.0007	7.304	
237	237 Desc-CD					0.0004	1.000	0.00	0.000	NO	2.423	0.0070	2.423	
238	238 Total PCBs													

#	Name	Qty	RA	Qty	Unit	Value	Value	Unit	Value	Unit	Value	Unit
164	PCB-202	48.03	48.01	1.000e+0	1.110e+4	0.000	0.04	NO	2.4310	2.4312		
165	PCB-201	48.10	48.10	0.000e+0	1.000e+4	0.000	0.04	NO	2.4710	2.4712		
166	PCB-204	48.28	48.28	0.210e+0	1.121e+4	0.000	0.02	NO	2.3300	2.3300		
167	PCB-187	48.58	48.58	1.073e+0	1.000e+4	0.000	0.00	NO	2.4016	2.4008		
168	PCB-200	60.61	60.61	0.000e+0	1.070e+4	0.000	0.07	NO	2.4000	2.4001		
169	PCB-188	62.08	62.08	0.000e+0	0.100e+0	0.000	0.00	NO	2.4770	2.4772		
170	PCB-189	62.18	62.21	7.000e+0	7.000e+0	0.000	1.00	NO	2.4300	2.4287		
181	PCB-188203	62.62	62.60	1.400e+0	1.000e+4	0.000	0.04	NO	4.7070	4.7067		



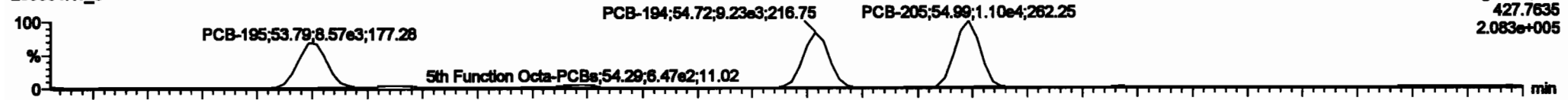
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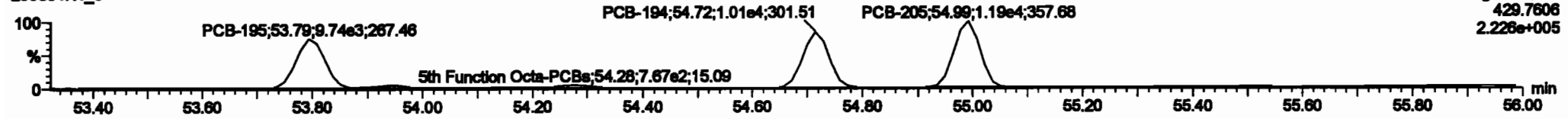
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**PCB-195**

200801K1\_3

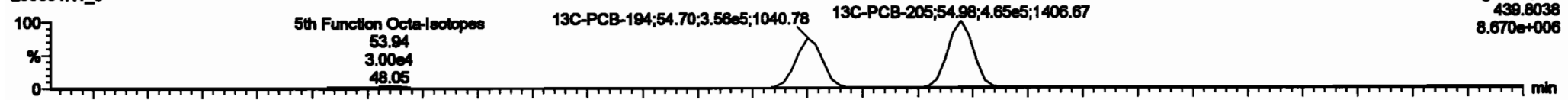


200801K1\_3

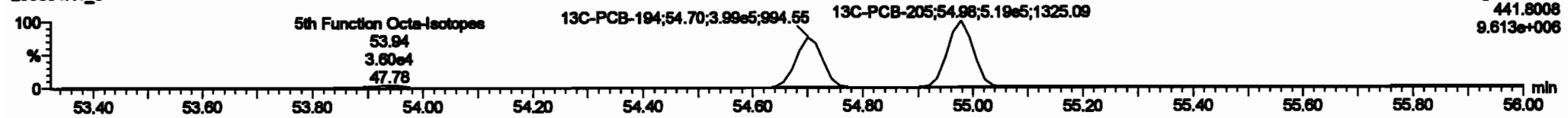


**13C-PCB-194**

200801K1\_3

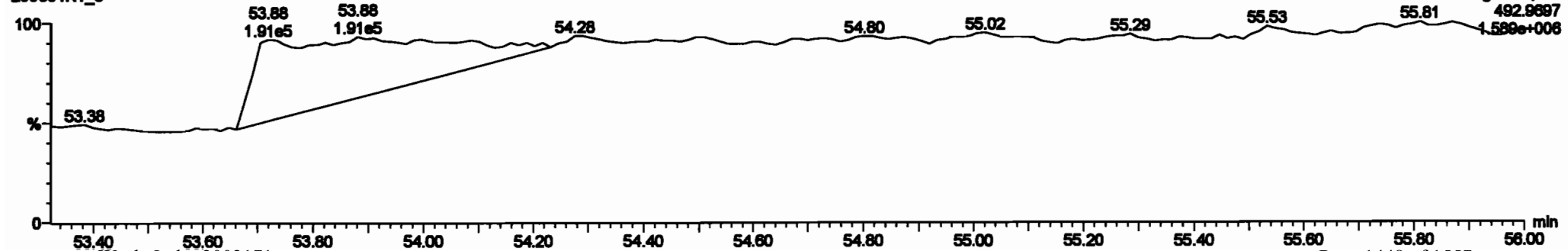


200801K1\_3



**PFK5a**

200801K1\_3





Dataset: Untitled

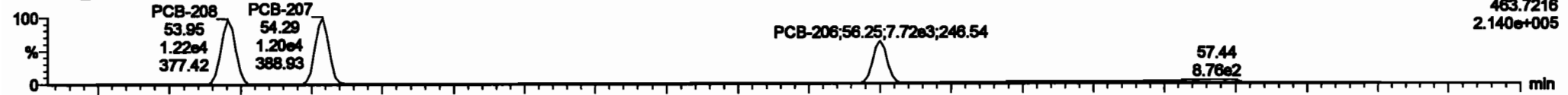
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

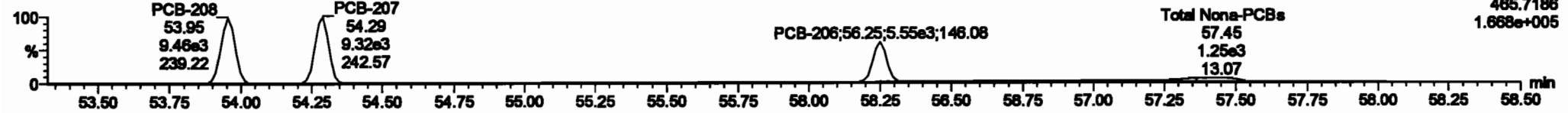
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PCB-208

200601K1\_3

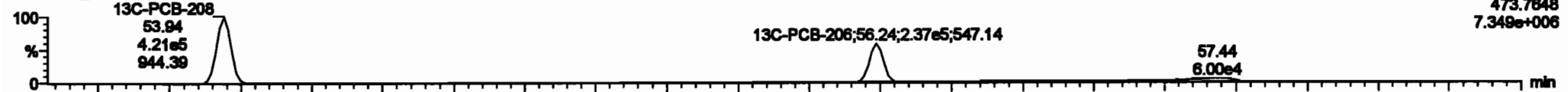


200601K1\_3

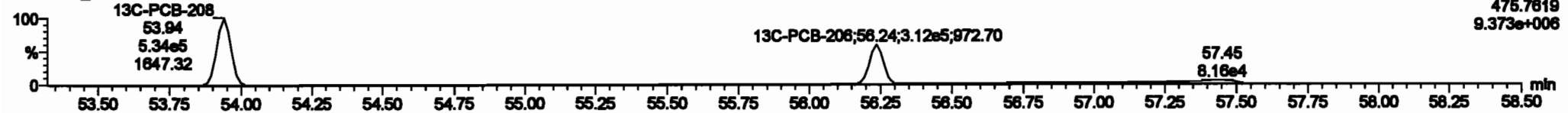


13C-PCB-208

200601K1\_3

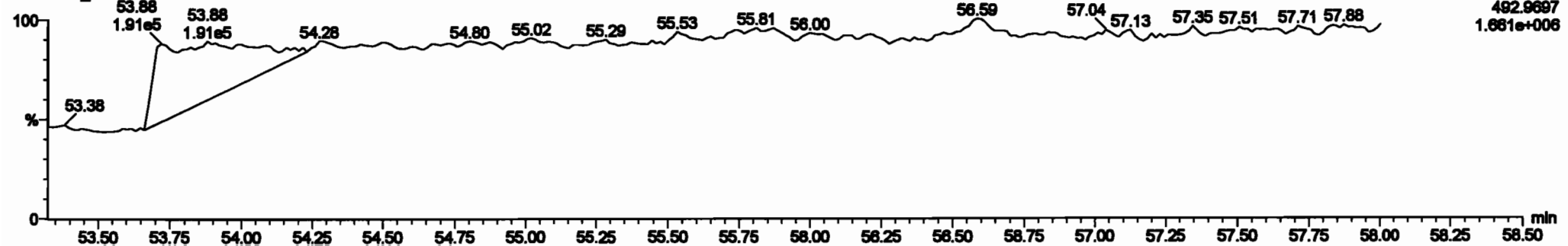


200601K1\_3



PFK5

200601K1\_3



Dataset: Untitled

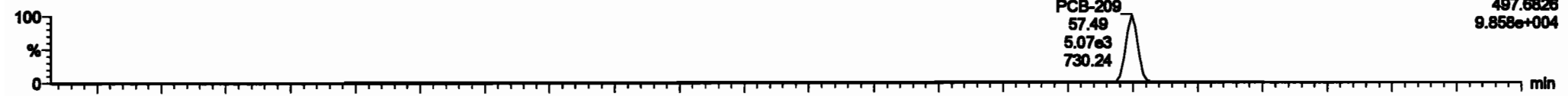
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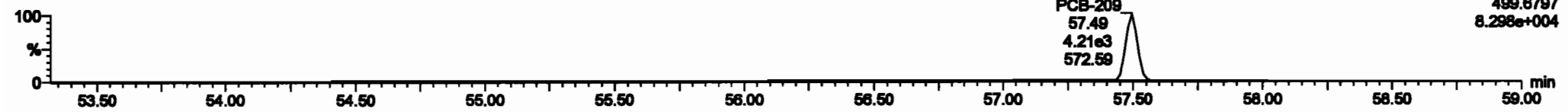
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**PCB-209**

200601K1\_3

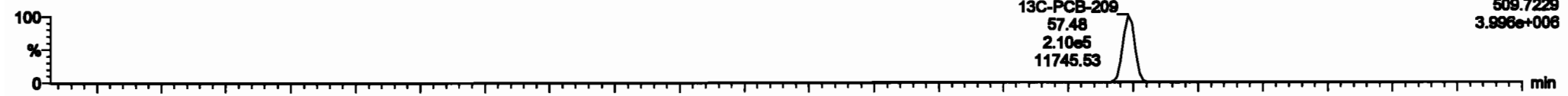


200601K1\_3

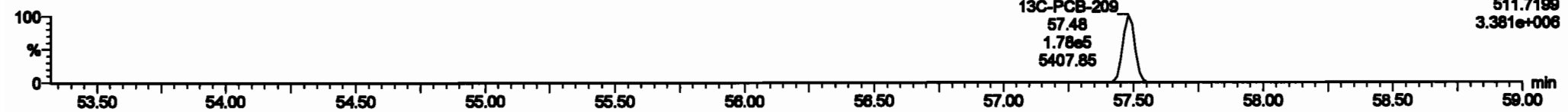


**13C-PCB-209**

200601K1\_3

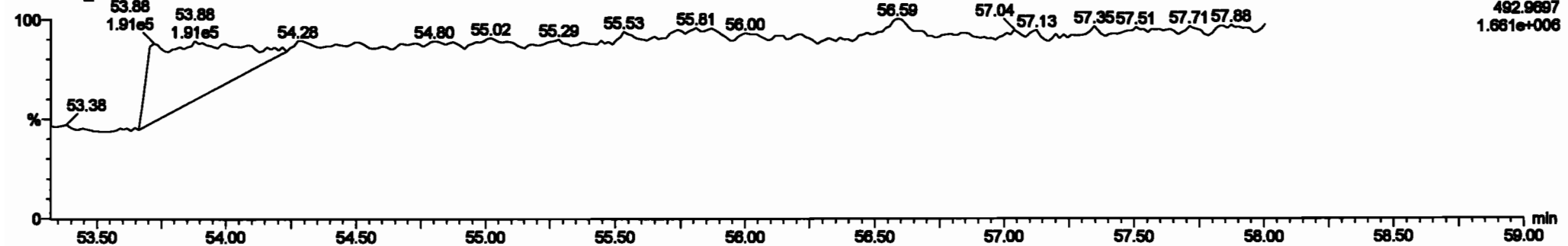


200601K1\_3



**PFK5b**

200601K1\_3



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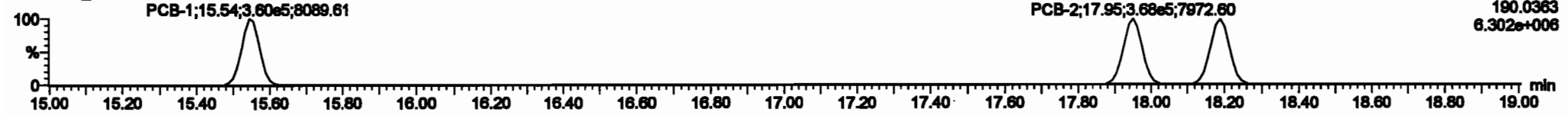
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**PCB-1**

200601K1\_4



200601K1\_4

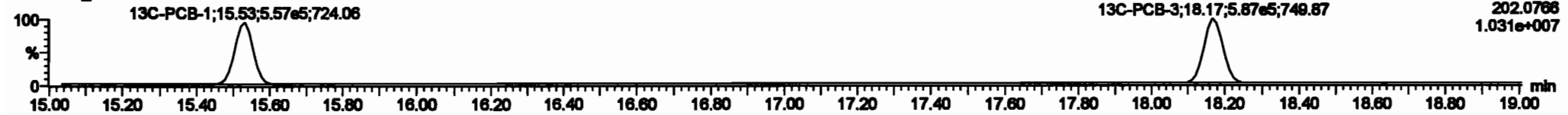


**13C-PCB-1**

200601K1\_4

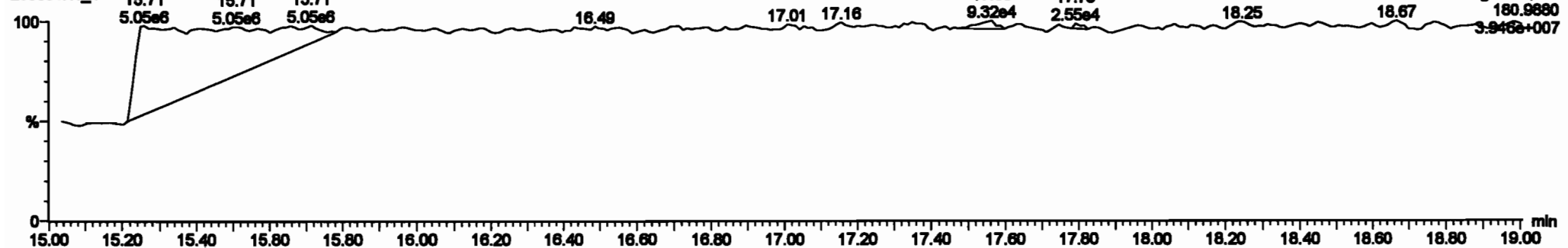


200601K1\_4



**PFK1**

200601K1\_4



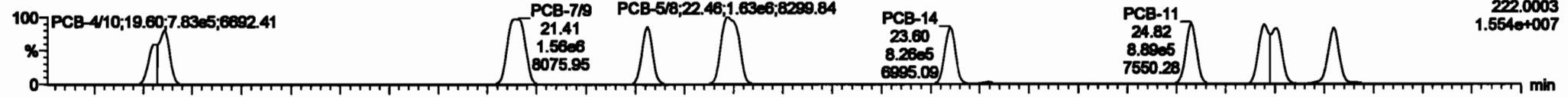
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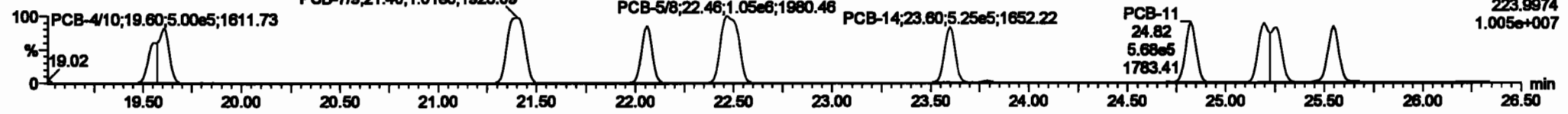
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**PCB-4/10**

200601K1\_4



200601K1\_4

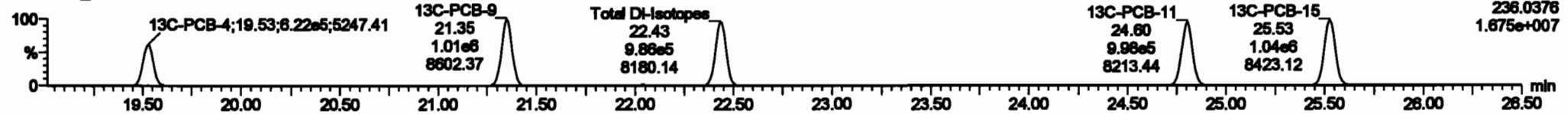


**13C-PCB-4**

200601K1\_4

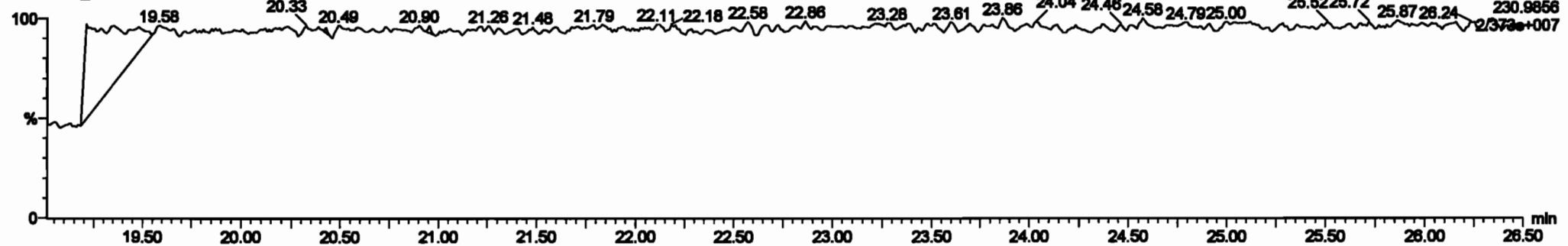


200601K1\_4



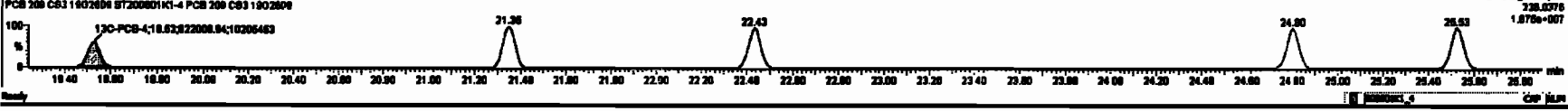
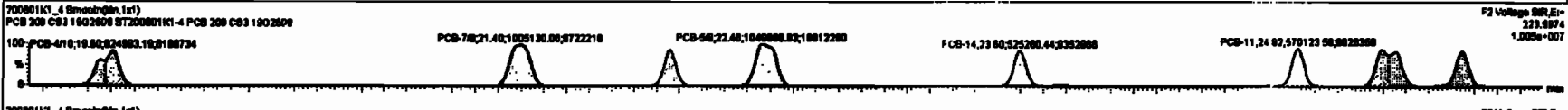
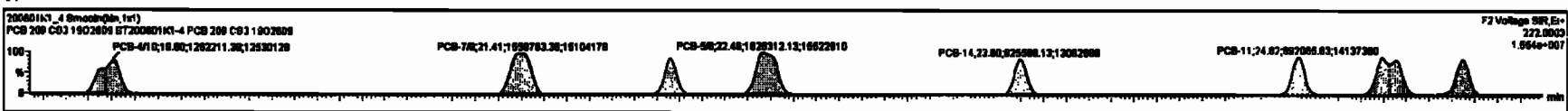
**PFK2a**

200601K1\_4



#	Name	Temp	RA	dy	RF	width	PeakOff	ST	PeakOff	RF	RFY	RFY	RFY	RFY	RFY	RFY	RFY	RFY		
224	Total Mass PCBs		1.885	1.000	0.00	0.000	0.000	ND	188.1									0.0042	188.1	
225	1st Function PCBs		1.885	1.000	0.00	0.000	0.000	ND	188.1										0.0042	188.1
226	2nd Function PCBs		1.885	1.000	0.00	0.000	0.000	ND	412.0										0.0070	412.0
227	3rd Function PCBs		0.000	1.000	0.00	0.000	0.000	ND	018.1										0.371	018.1
228	Total Toluene PCBs		1.8770	1.000	0.00	0.000	0.000	ND	2171										0.943	2171
229	2nd Function Paria PCBs		1.3167	1.000	0.00	0.000	0.000	ND	2108										0.826	2108
230	4th Function Paria PCBs		1.8728	1.000	0.00	0.000	0.000	ND	281.1										0.182	281.1
231	2nd Function Hexa PCBs		0.0000	1.000	0.00	0.000	0.000	ND	887.0										0.188	887.0
232	4th Function Hexa PCBs		1.8818	1.000	0.00	0.000	0.000	ND	1481										1.88	1481
233	Total Hepta PCBs		1.3881	1.000	0.00	0.000	0.000	ND	1280										1.38	1280
234	4th Function Octa PCBs		1.8800	1.000	0.00	0.000	0.000	ND	448.1										0.322	448.1
235	1st Function Octa PCBs		1.1489	1.000	0.00	0.000	0.000	ND	174.1										0.361	174.1

#	Name	Temp	RA	dy	RF	width	PeakOff	ST	PeakOff	RF	RFY	RFY	RFY	RFY	RFY	RFY	RFY	RFY	
1	PCB-4/8		18.81	18.80	1.200e8	0.300e8	1.880	1.82	ND	102.84									102.84
2	PCB-7/8		21.41	21.41	1.880e8	1.000e8	1.880	1.88	ND	102.88									102.88
3	PCB-8		22.80	22.80	8.100e5	8.200e5	1.880	1.88	ND	80.481									80.481
4	PCB-9/8		22.48	22.48	1.000e8	1.000e8	1.880	1.88	ND	100.80									100.80
5	PCB-14		23.81	23.80	0.200e5	0.200e5	1.880	1.87	ND	81.808									81.808
6	PCB-11		24.82	24.82	8.001e5	8.701e5	1.880	1.87	ND	88.775									88.775
7	PCB-12/13		25.25	25.28	1.843e5	1.000e5	1.880	1.84	ND	180.30									180.30
8	PCB-15		25.87	25.85	8.428e5	8.428e5	1.880	1.88	ND	82.382									82.382

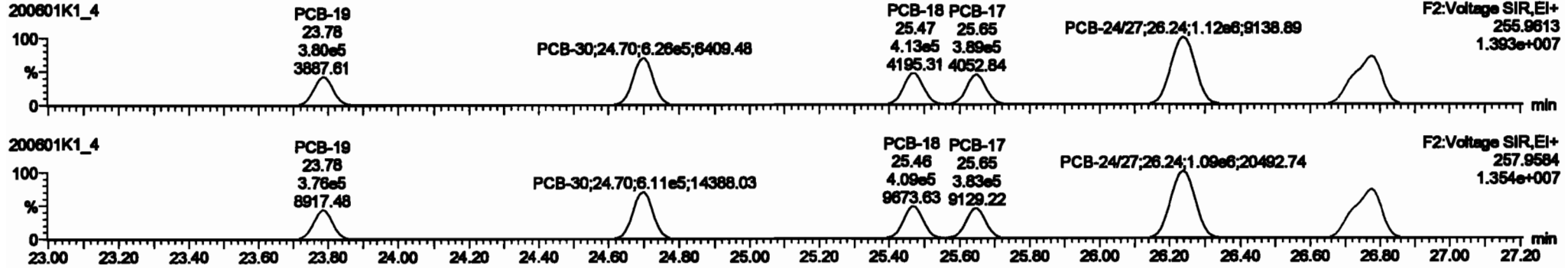


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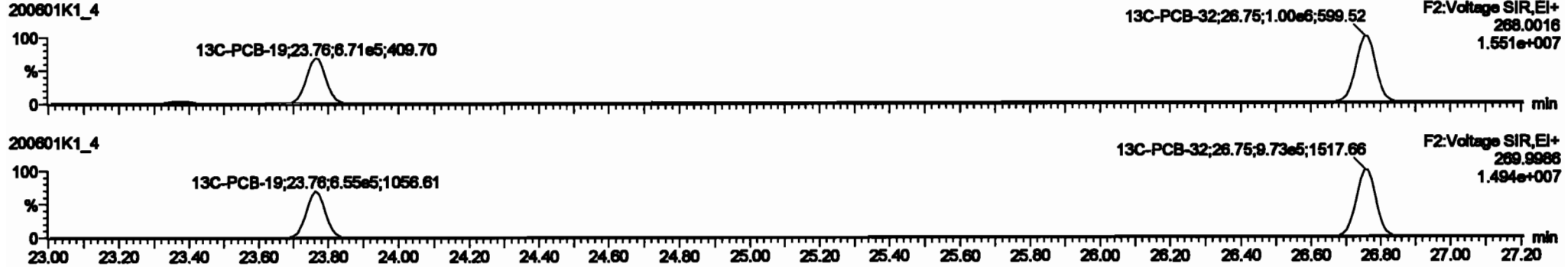
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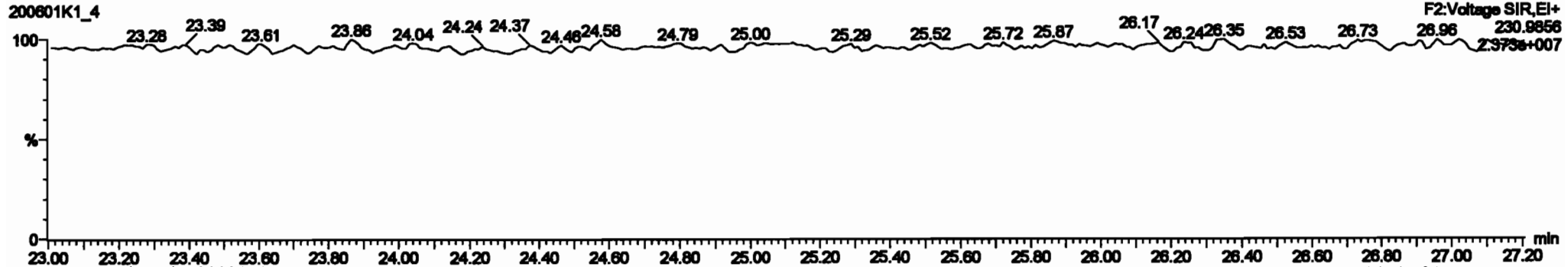
PCB-19



13C-PCB-19



PFK2b

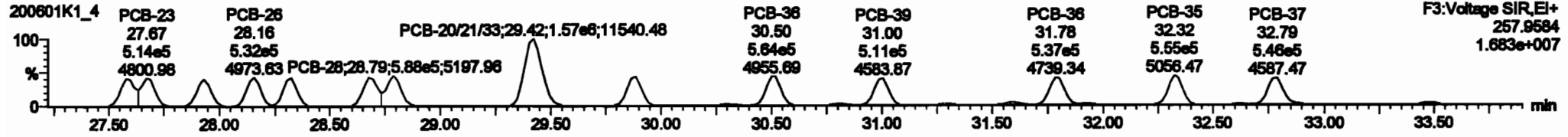
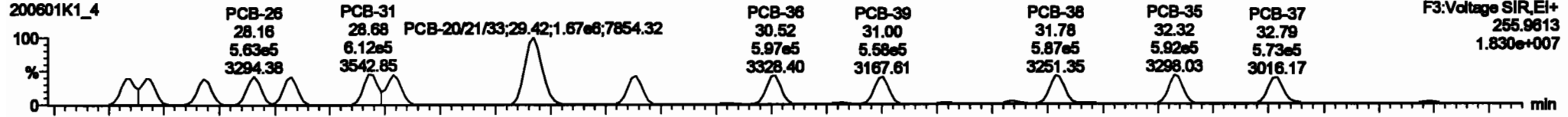


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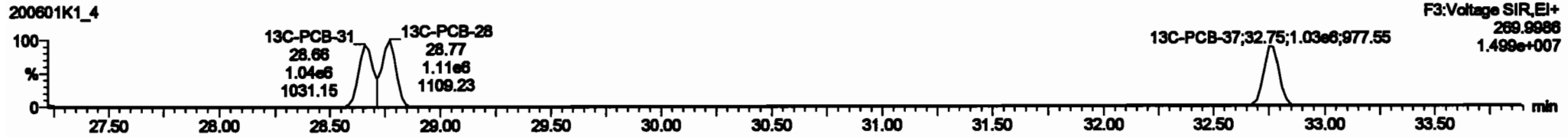
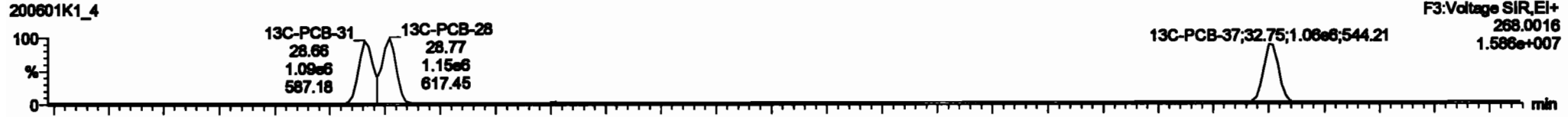
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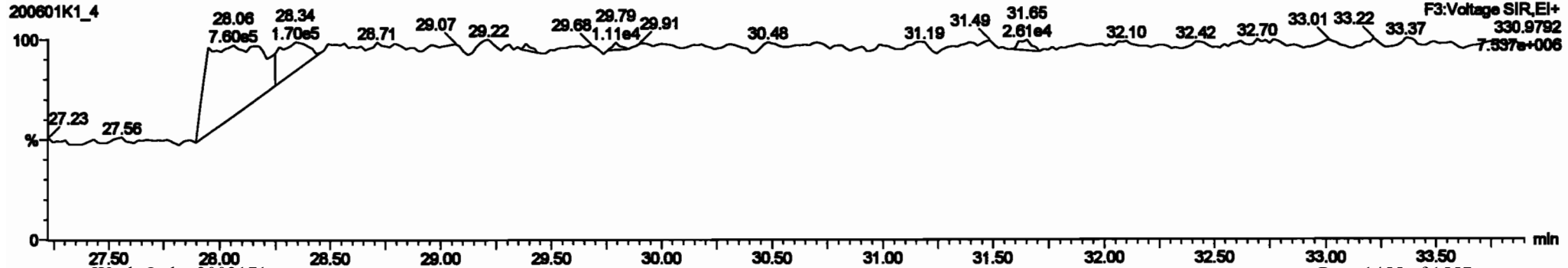
**PCB-34**



**13C-PCB-28**

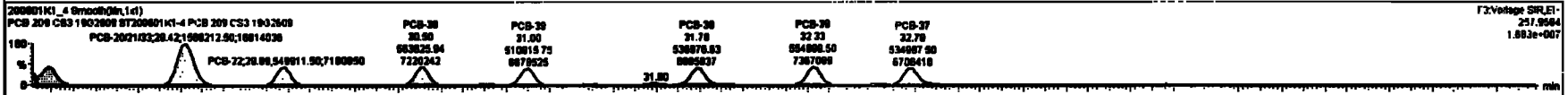
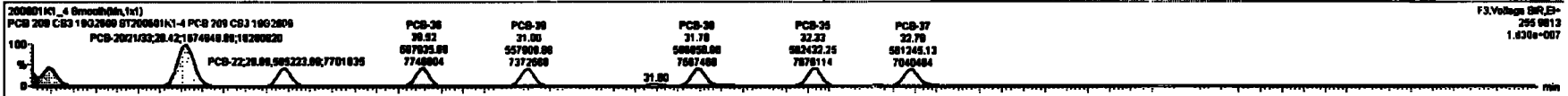


**PFK3d**



#	Material	Usage	SA	Qty	Unit	Cost	Unit Cost	Ext Cost	Wt	Unit Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt
224	Total Mono-PCBs			1.000	1.000	0.00	0.000	0.000	NO	188.1	0.000	188.1						
225	Total Di-PCBs			1.000	1.000	0.00	0.000	0.000	NO	818.4	0.280	818.4						
226	2nd Function Tri-PCBs			1.000	1.000	0.00	0.000	0.000	NO	412.8	0.000	412.8						
227	3rd Function Tetra-PCBs			0.000	0.000	0.00	0.000	0.000	NO	0.000	0.000	0.000						
228	Total Tetra-PCBs			1.000	1.000	0.00	0.000	0.000	NO	2171	0.943	2171						
229	2nd Function Penta-PCBs			1.3187	1.000	0.00	0.000	0.000	NO	2108	0.828	2108						
230	4th Function Penta-PCBs			1.0926	1.000	0.00	0.000	0.000	NO	281.1	0.182	281.1						
231	2nd Function Hexa-PCBs			0.8808	1.000	0.00	0.000	0.000	NO	887.3	0.188	887.3						
232	4th Function Hexa-PCBs			1.0216	1.000	0.00	0.000	0.000	NO	1481	1.28	1481						
233	Total Hepta-PCBs			1.3881	1.000	0.00	0.000	0.000	NO	1280	1.28	1280						
234	4th Function Octa-PCBs			1.0008	1.000	0.00	0.000	0.000	NO	448.1	0.322	448.1						
235	Total Octa-PCBs			1.0008	1.000	0.00	0.000	0.000	NO	158.1	0.281	158.1						

#	Material	Usage	SA	Qty	Unit	Cost	Unit Cost	Ext Cost	Wt	Unit Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt	Ext Wt
18	PCB-34			27.87	27.87	5.93e-5	5.28e-5	1.46	1.08	NO	80.487	80.487						
19	PCB-20			27.87	27.87	6.281e-5	5.14e-5	1.64	1.08	NO	82.838	82.838						
20	PCB-28			27.87	27.87	6.216e-5	4.83e-5	1.64	1.08	NO	80.340	80.340						
21	PCB-26			28.18	28.18	6.832e-5	5.32e-5	1.94	1.08	NO	81.287	81.287						
22	PCB-26			28.31	28.32	6.916e-5	5.21e-5	1.94	1.08	NO	80.288	80.288						
23	PCB-31			28.88	28.88	6.118e-5	4.38e-5	1.94	1.14	NO	48.828	48.828						
24	PCB-28			28.78	28.78	6.380e-5	4.87e-5	1.64	1.08	NO	82.734	82.734						
25	PCB-202100			28.43	28.43	1.878e-5	1.88e-6	0.54	1.07	NO	182.28	182.28						
26	PCB-22			28.87	28.88	5.882e-5	4.48e-5	1.64	1.08	NO	81.848	81.848						



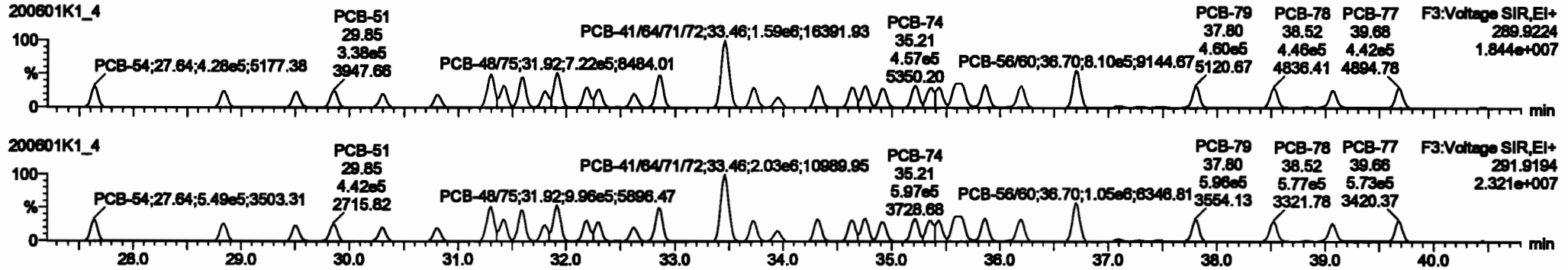


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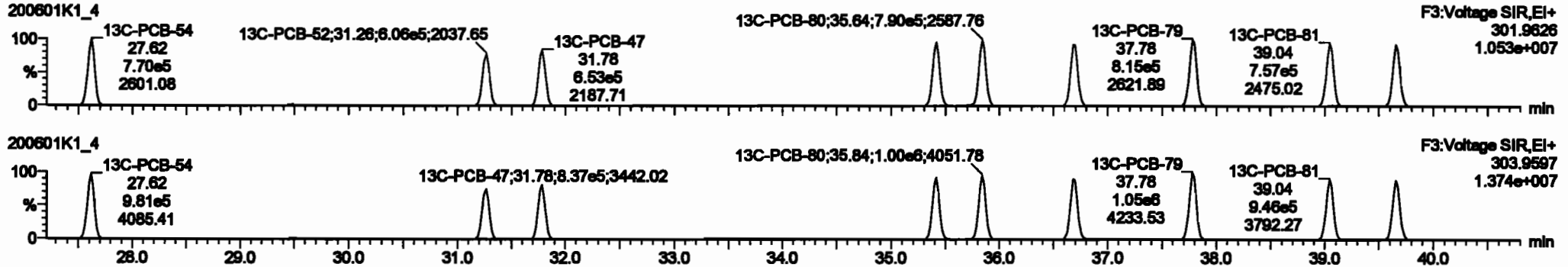
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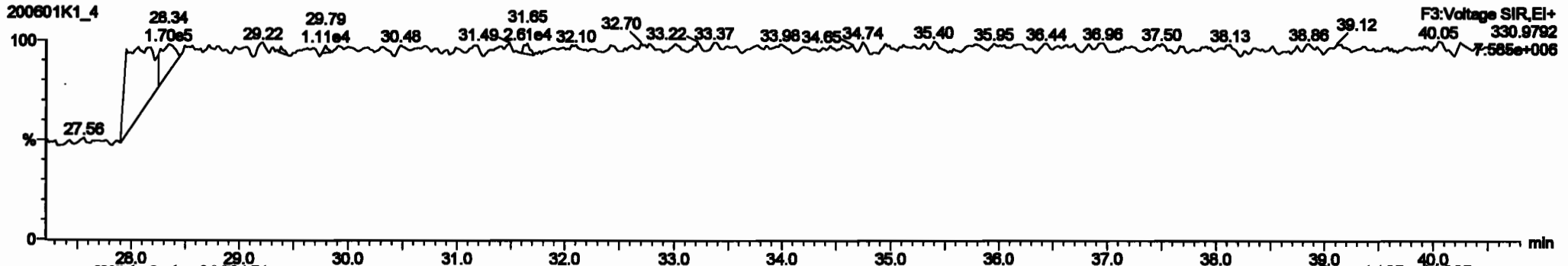
**PCB-54**



**13C-PCB-54**



**PFK3a**



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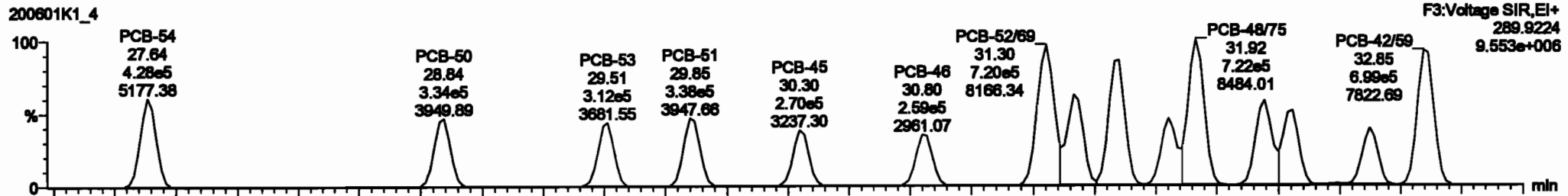
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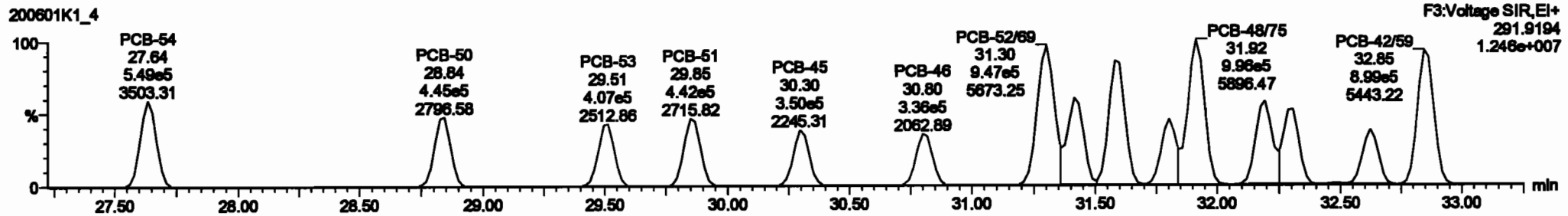
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PCB-50

200601K1\_4



200601K1\_4



13C-PCB-52

200601K1\_4

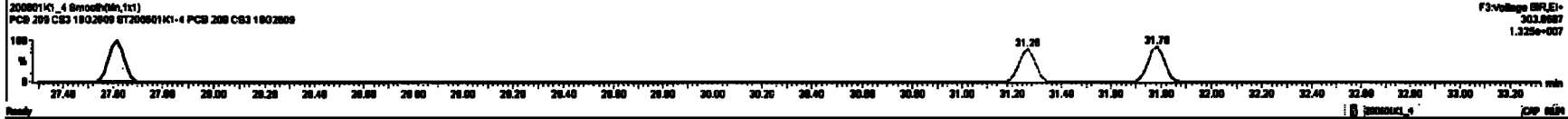
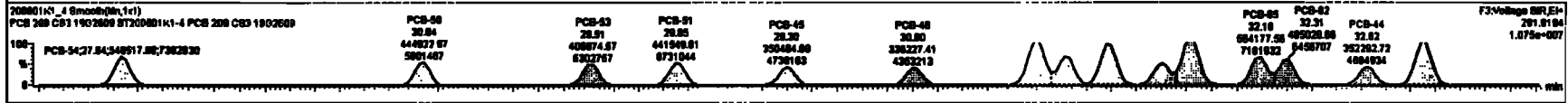
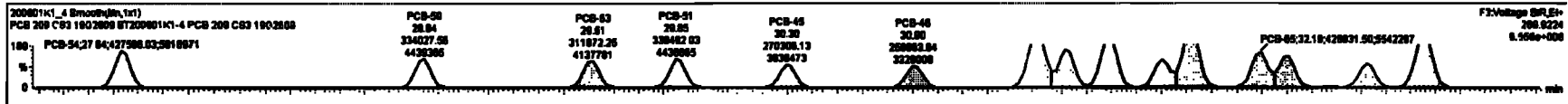


200601K1\_4



#	Name	Range	RA	dy	W/F	valdet	PeakRT	RT	PeakRT	Area	WRT	Comp.	Ratio	DL	MSPC
226	Total Mono-PCBs				1.000	1.000	0.00	0.000	NO	188.1			0.000	188.1	
227	Total Di-PCBs				1.000	1.000	0.00	0.000	NO	618.4			0.000	618.4	
228	Total Tri-PCBs				1.000	1.000	0.00	0.000	NO	412.5			0.000	412.5	
229	1st Function Tri-PCBs				0.000	1.000	0.00	0.000	NO	618.1			0.000	618.1	
230	2nd Function Tri-PCBs				1.000	0.000	0.00	0.000	NO	248.0			0.000	248.0	
231	3rd Function Tri-PCBs				1.000	0.000	0.00	0.000	NO	289.1			0.000	289.1	
232	1st Function Tetra-PCBs				1.000	0.000	0.00	0.000	NO	148.1			1.000	148.1	
233	2nd Function Tetra-PCBs				1.000	0.000	0.00	0.000	NO	128.0			1.000	128.0	
234	3rd Function Tetra-PCBs				1.000	0.000	0.00	0.000	NO	448.1			0.000	448.1	
235	4th Function Tetra-PCBs				1.000	0.000	0.00	0.000	NO	184.1			0.000	184.1	

#	Name	Value	RT	RT Range	Peak	Area	dy	W/F	valdet	PeakRT	Area	WRT	Comp.	Ratio	DL	MSPC
32	PCB-84	27.84	27.84	4.27065	6.48965	0.770	0.78	NO	91.824	91.824						
33	PCB-89	28.89	28.84	3.24065	4.44865	0.770	0.78	NO	90.878	90.878						
34	PCB-89	28.89	28.81	3.12065	4.08865	0.770	0.77	NO	92.288	92.288						
35	PCB-91	28.89	28.85	3.28065	4.41865	0.770	0.77	NO	93.201	93.201						
36	PCB-45	30.30	30.30	2.70065	3.80865	0.770	0.77	NO	92.599	92.599						
37	PCB-45	30.30	30.35	2.85065	3.95865	0.770	0.77	NO	93.943	93.943						
38	PCB-49B	31.51	31.20	1.25065	0.47865	0.770	0.78	NO	103.888	103.888						
39	PCB-73	31.41	31.41	4.88065	6.82065	0.770	0.78	NO	93.621	93.621						
40	PCB-49B	31.58	31.58	6.28065	8.31465	0.770	0.77	NO	108.07	108.07						



Dataset: Untitled

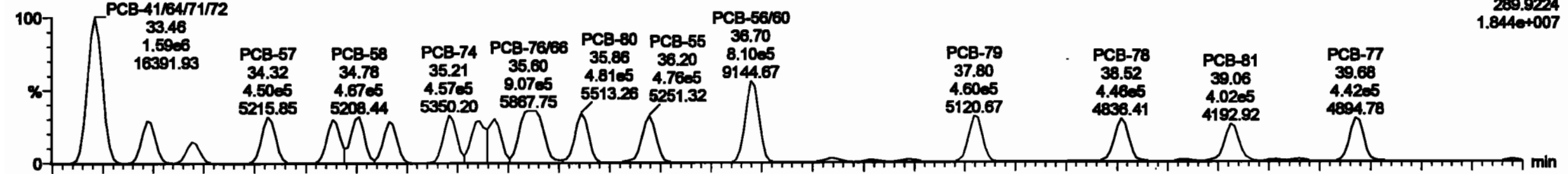
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

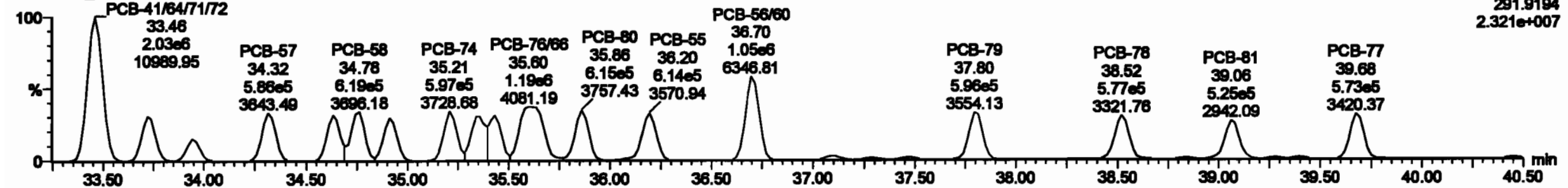
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PCB-68

200601K1\_4

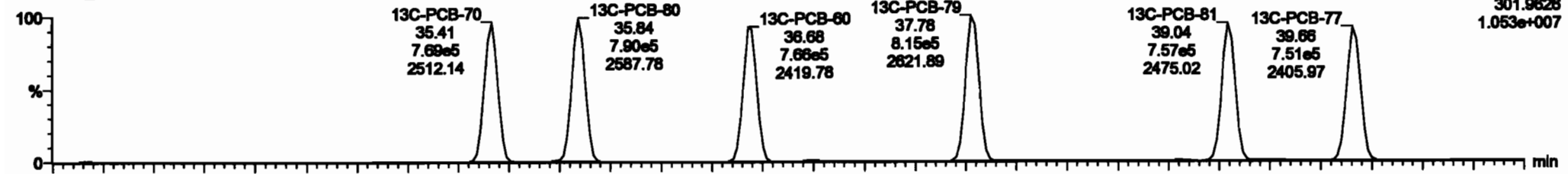


200601K1\_4

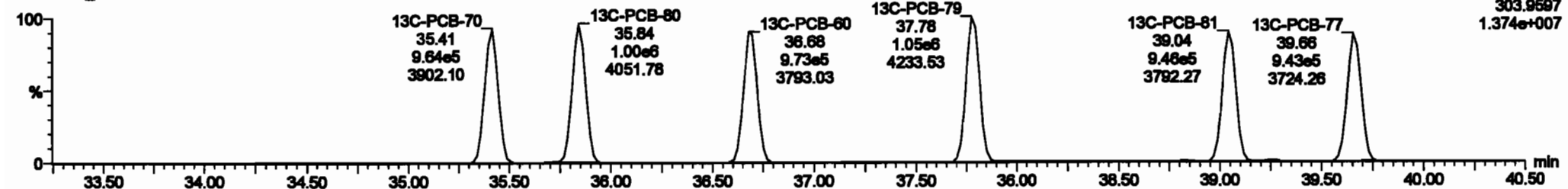


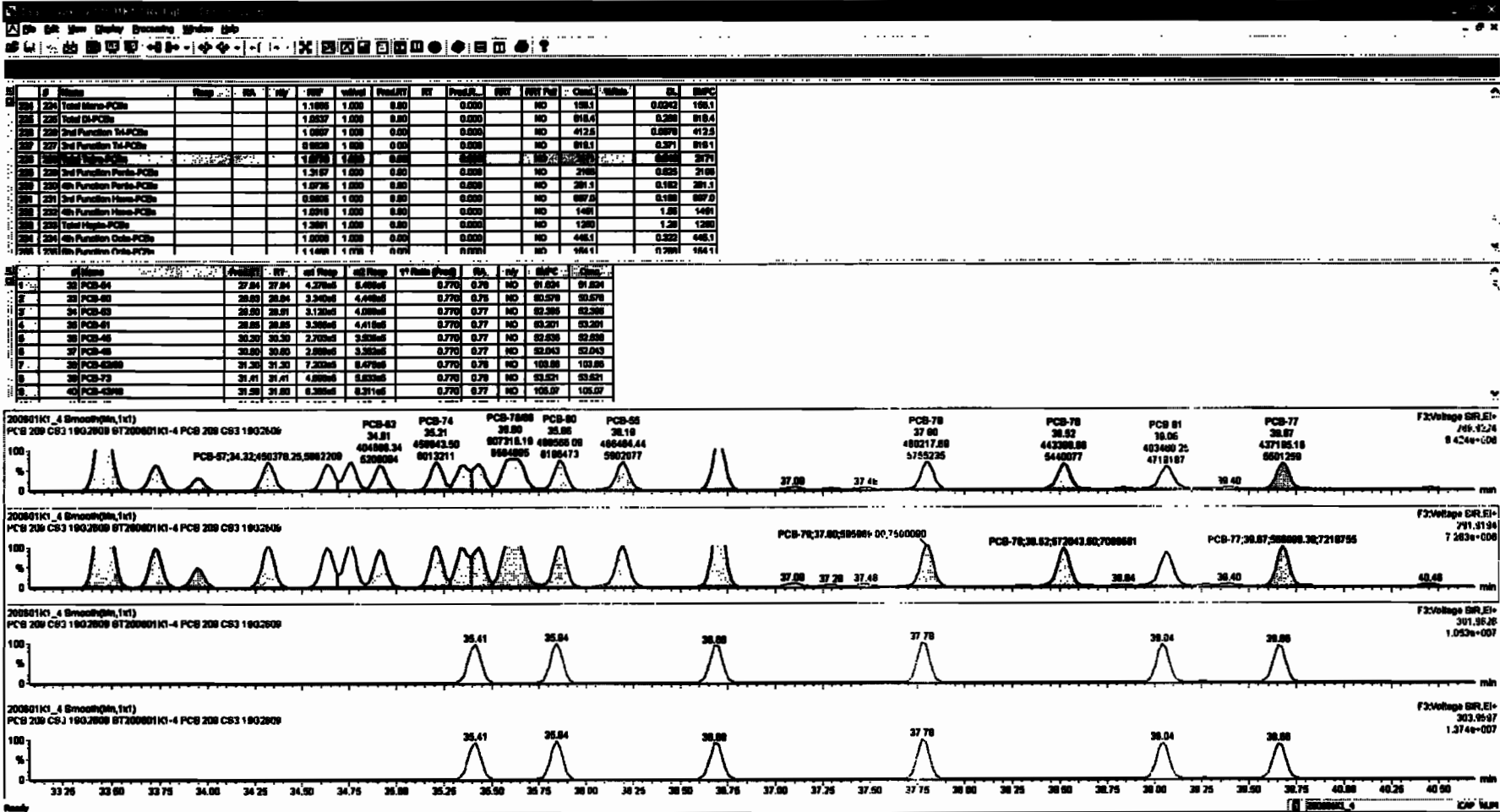
13C-PCB-60

200601K1\_4



200601K1\_4





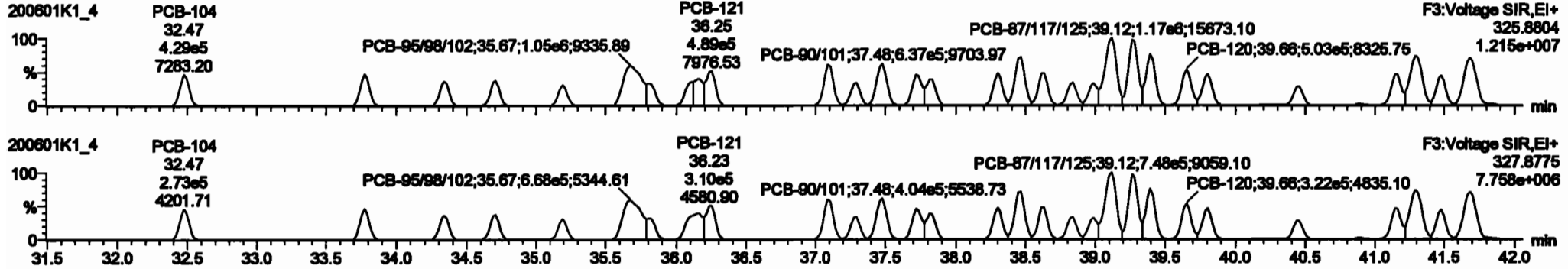
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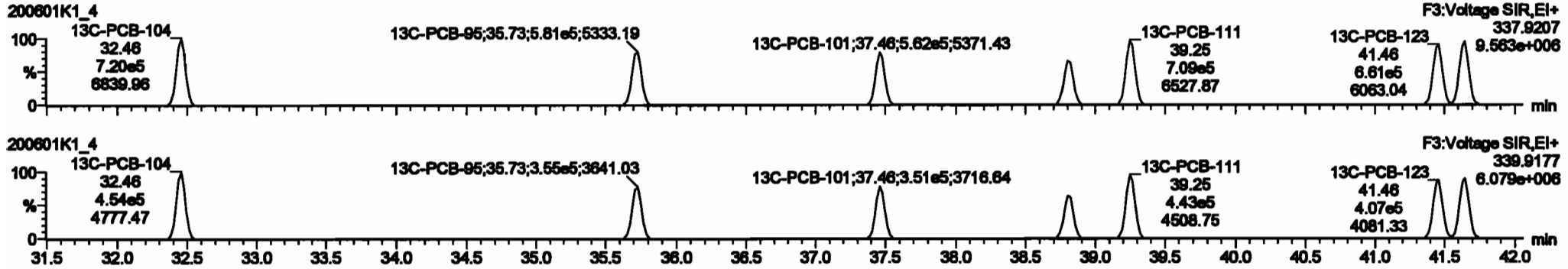
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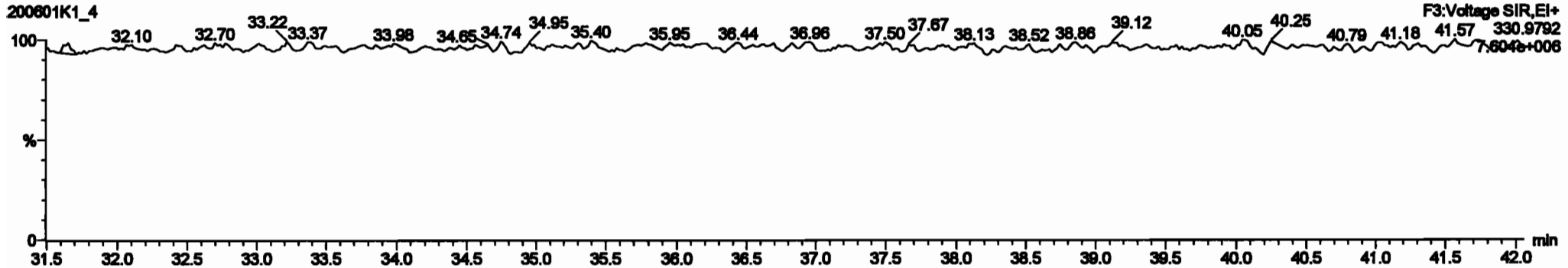
**PCB-104**



**13C-PCB-104**



**PFK3b**



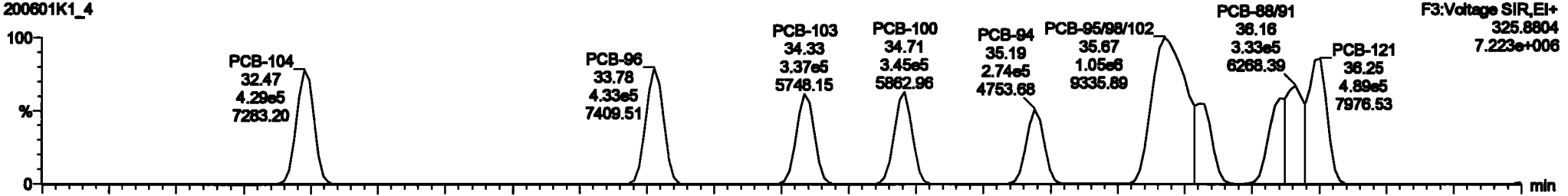
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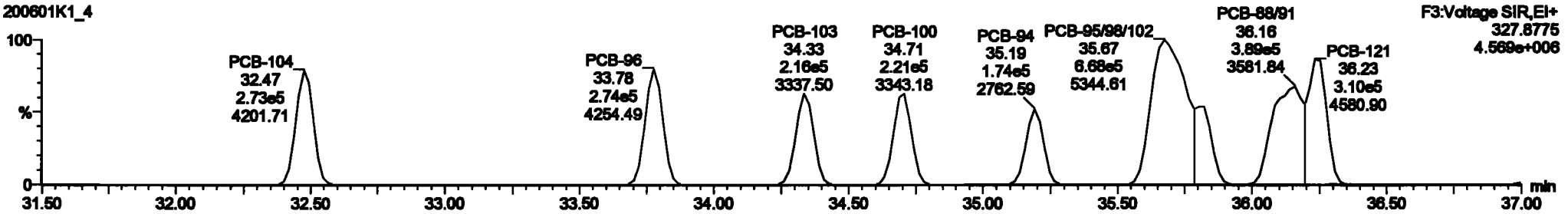
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PCB-96

200601K1\_4

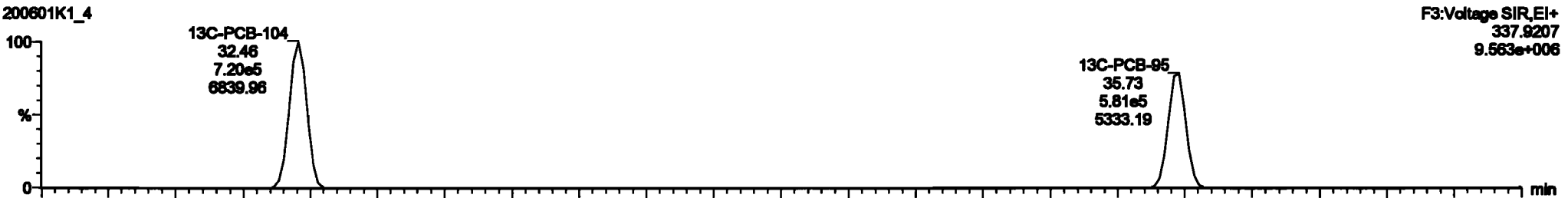


200601K1\_4

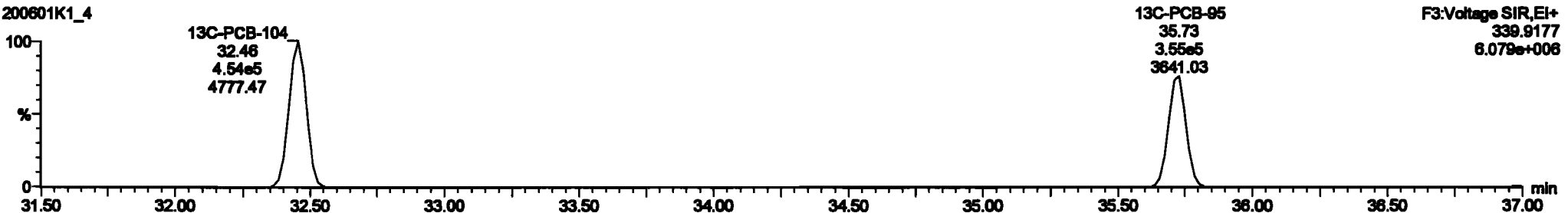


13C-PCB-95

200601K1\_4

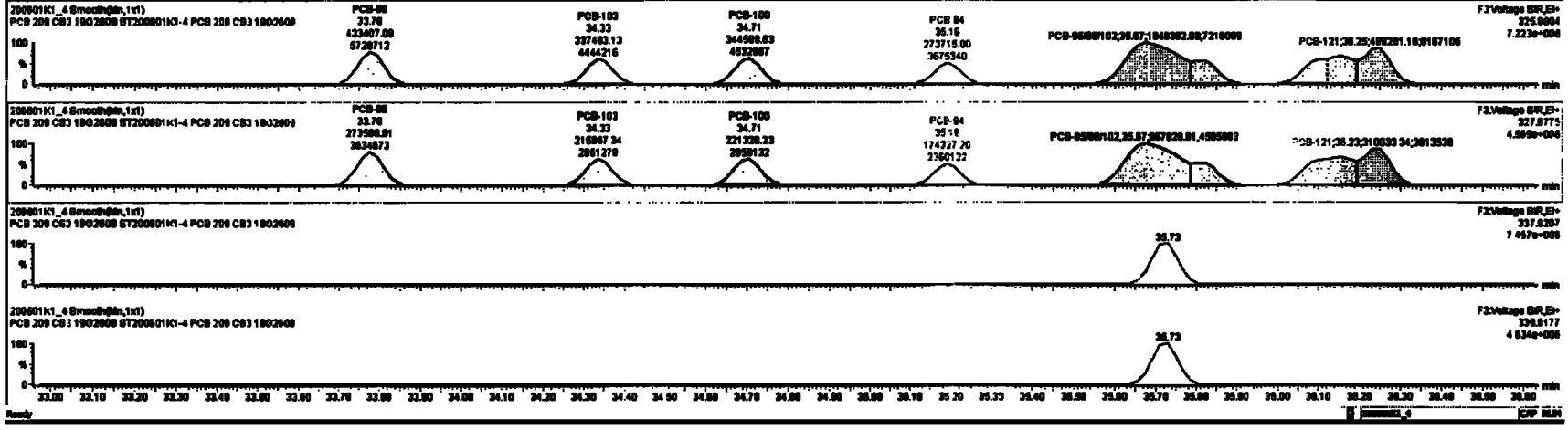


200601K1\_4



#	Category	Wgt	Vol	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol
224	Total Micro-PCBs				1.000	1.000	0.00	0.000	NO	100.1	0.0242	100.1						
225	Total BLPCBs				1.000	1.000	0.00	0.000	NO	018.4	0.200	018.4						
226	Total Para-PCBs				1.000	1.000	0.00	0.000	NO	412.0	0.000	412.0						
227	Total Para-PCBs				0.000	1.000	0.00	0.000	NO	018.1	0.000	018.1						
228	Total Para-PCBs				1.000	1.000	0.00	0.000	NO	2171	0.000	2171						
229	Total Para-PCBs				1.000	1.000	0.00	0.000	NO	1.000	0.000	1.000						
230	4th Para-PCBs				1.000	1.000	0.00	0.000	NO	201.1	0.140	201.1						
231	3rd Para-PCBs				0.000	1.000	0.00	0.000	NO	007.0	0.100	007.0						
232	2nd Para-PCBs				1.000	1.000	0.00	0.000	NO	140	1.00	140						
233	1st Para-PCBs				1.000	1.000	0.00	0.000	NO	1200	1.20	1200						
234	4th Para-PCBs				1.000	1.000	0.00	0.000	NO	445.1	0.302	445.1						
235	3rd Para-PCBs				1.000	1.000	0.00	0.000	NO	104.1	0.200	104.1						

#	Category	Wgt	Vol	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol	Wgt	Vol
64	PCB-104				32.47	32.47	4.20e6	2.72e6	1.000	1.07	NO	03.204	03.204					
65	PCB-08				33.70	33.70	4.20e6	2.72e6	1.000	1.00	NO	02.100	02.100					
66	PCB-103				34.23	34.23	3.27e6	2.10e6	1.000	1.00	NO	03.200	03.200					
67	PCB-100				34.00	34.71	3.44e6	2.37e6	1.000	1.00	NO	03.010	03.010					
68	PCB-04				35.20	35.10	2.70e6	1.70e6	1.000	1.07	NO	00.400	00.400					
69	PCB-05000102				35.00	35.07	1.00e6	0.67e6	1.000	1.07	NO	103.20	103.20					
70	PCB-03				35.01	35.01	2.00e6	1.70e6	1.000	1.00	NO	03.202	03.202					
71	PCB-0000				35.10	35.10	0.07e6	3.00e6	1.000	1.00	NO	100.02	100.02					
72	PCB-121				35.20	35.20	4.00e6	3.00e6	1.000	1.00	NO	40.000	40.000					





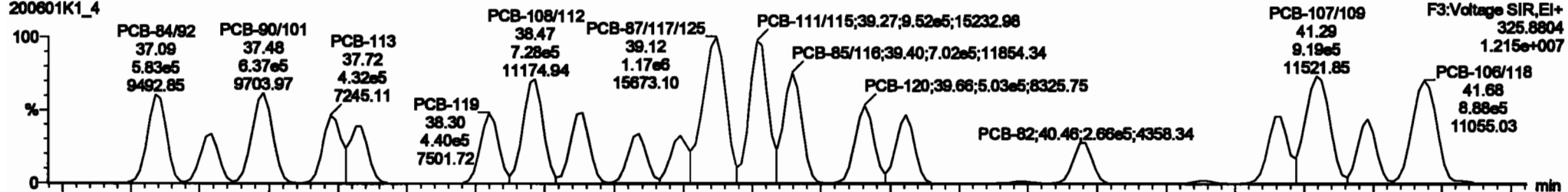
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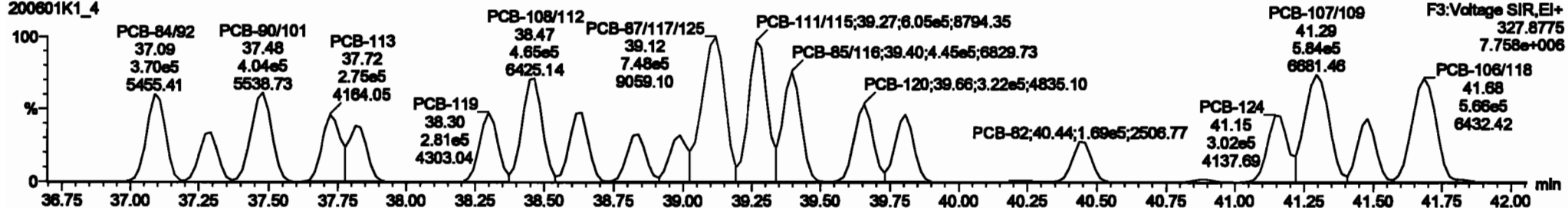
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**PCB-119**

200601K1\_4

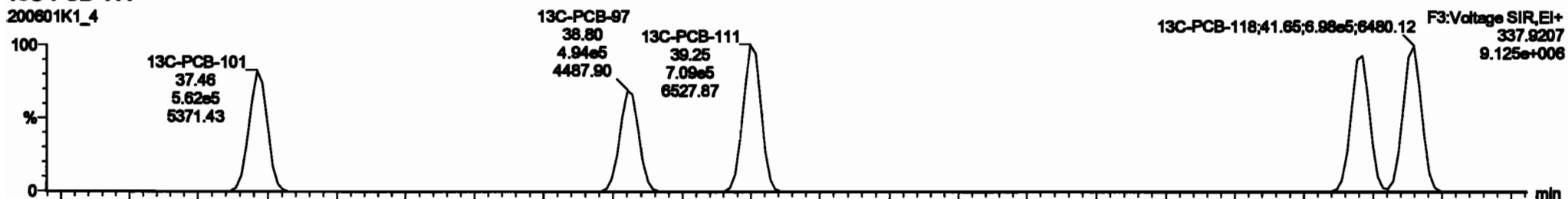


200601K1\_4

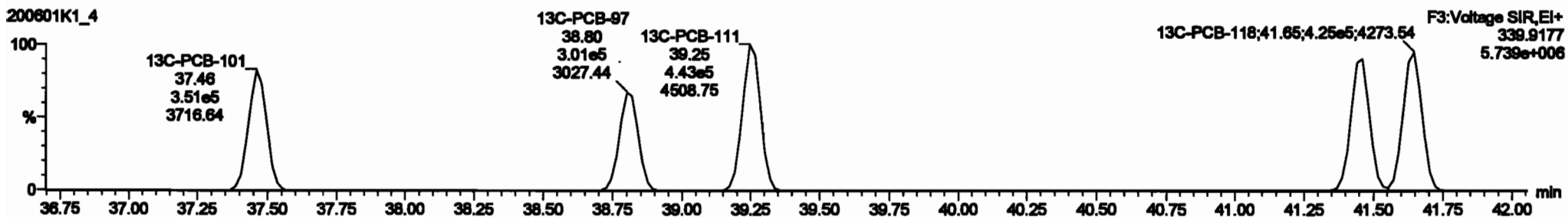


**13C-PCB-111**

200601K1\_4

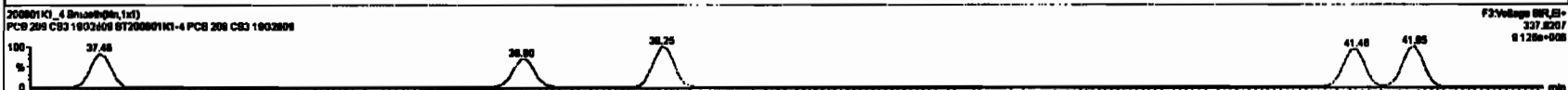
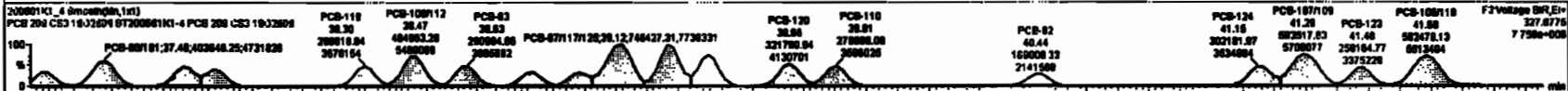


200601K1\_4



#	Name	Range	RA	dy	RF	width	PresRF	RF	PresRF	RF	RFI Pat	Class	Units	EL	SPFC
226	Total Mono-PCBs		1.1888	1.000	0.00	0.000		NO	188.1				0.0000	188.1	
228	Total Di-PCBs		1.0007	1.000	0.00	0.000		NO	018.4				0.200	018.4	
229	2nd Function TM-PCBs		1.0007	1.000	0.00	0.000		NO	012.0				0.0070	012.0	
227	2nd Function TM-PCBs		0.0000	1.000	0.00	0.000		NO	016.1				0.271	016.1	
228	Total Tera-PCBs		1.0776	1.000	0.00	0.000		NO	2171				0.045	2171	
229	6th Function Para-PCBs		1.0776	1.000	0.00	0.000		NO	208				0.000	208	
230	2nd Function Para-PCBs		0.0000	1.000	0.00	0.000		NO	007.0				0.100	007.0	
231	6th Function Para-PCBs		1.0010	1.000	0.00	0.000		NO	1401				1.00	1401	
230	Total Hexa-PCBs		1.0001	1.000	0.00	0.000		NO	1200				1.20	1200	
231	6th Function Octa-PCBs		1.0000	1.000	0.00	0.000		NO	446.1				0.200	446.1	
230	6th Function Octa-PCBs		1.1498	1.000	0.00	0.000		NO	104.1				0.200	104.1	

#	Name	PresRF	RF	off Range	off Range	1 <sup>st</sup> Peak (Pres)	RA	dy	SPFC	Class
64	PCB-110	32.47	32.47	4.20e6	2.72e6	1.000	1.07	NO	63.234	63.234
65	PCB-43	33.76	33.76	4.20e6	2.72e6	1.000	1.00	NO	62.110	62.110
66	PCB-109	34.23	34.23	3.37e6	2.18e6	1.000	1.00	NO	60.288	60.288
67	PCB-103	34.09	34.71	3.44e6	2.21e6	1.000	1.00	NO	60.010	60.010
68	PCB-41	35.21	35.10	2.72e6	1.74e6	1.000	1.07	NO	60.400	60.400
69	PCB-66/66/62	35.00	35.07	1.84e6	0.67e6	1.000	1.07	NO	162.20	162.20
70	PCB-40	36.01	36.01	2.50e6	1.74e6	1.000	1.00	NO	60.200	60.200
71	PCB-60/61	36.10	36.10	0.07e6	3.00e6	1.000	1.00	NO	100.00	100.00
72	PCB-121	36.30	36.28	4.00e6	3.10e6	1.000	1.00	NO	40.000	40.000



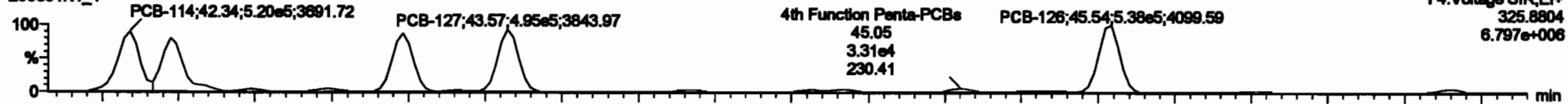
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

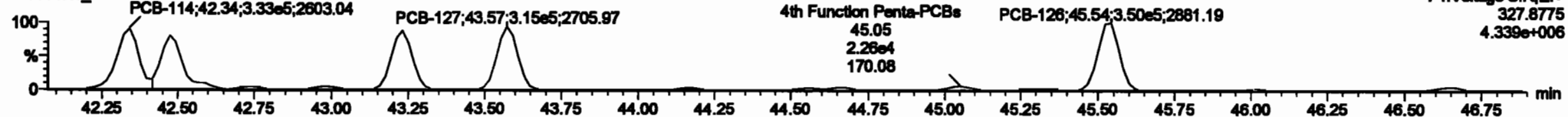
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**PCB-114**

200601K1\_4

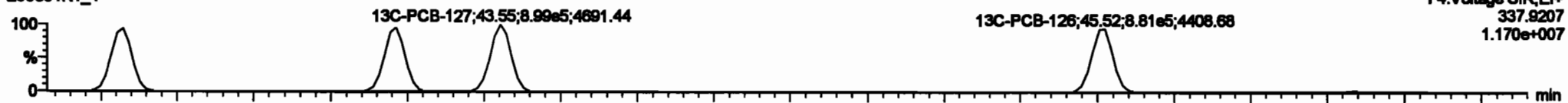


200601K1\_4

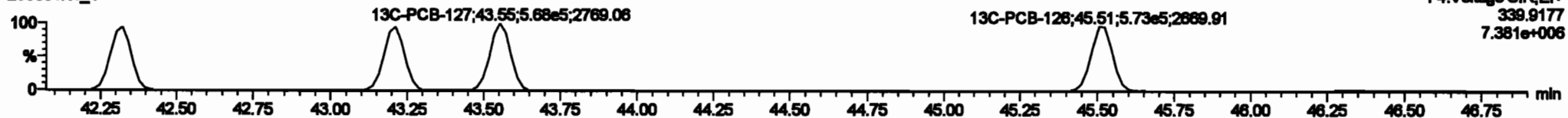


**13C-PCB-114**

200601K1\_4

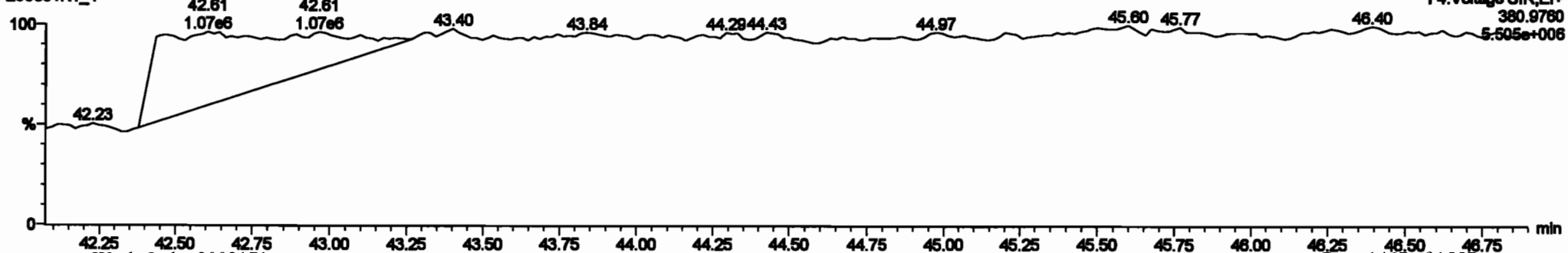


200601K1\_4



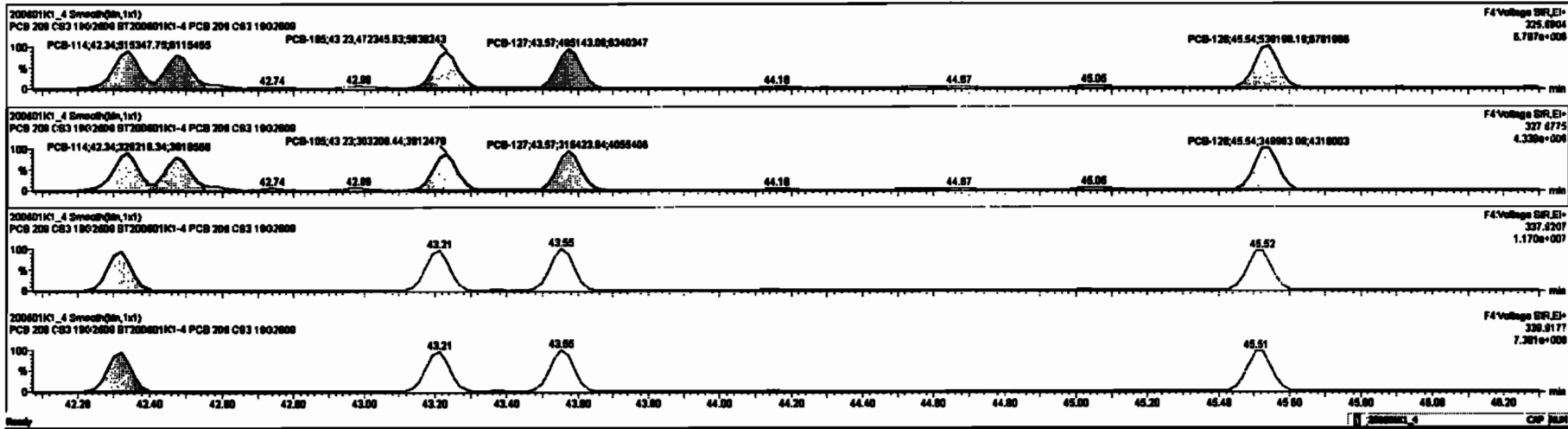
**PFK4a**

200601K1\_4



#	Name	Range	BA	Units	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row
224	Total Micro-PCBs				1.1885	1,000	0.00		0.000	NO	198.1		0.0042	198.1						
225	Total DL-PCBs				1.0637	1,000	0.00		0.000	NO	818.4		0.269	818.4						
226	2nd Function TA-PCBs				1.2607	1,000	0.00		0.000	NO	412.5		0.0070	412.5						
227	3rd Function TA-PCBs				0.9828	1,000	0.00		0.000	NO	818.1		0.371	818.1						
228	Total Tolu-PCBs				1.5778	1,000	0.00		0.000	NO	2171		0.843	2171						
229	2nd Function Tolu-PCBs				1.3157	1,000	0.00		0.000	NO	2168		0.828	2168						
230	3rd Function Tolu-PCBs				1.0922	1,000	0.00		0.000	NO	2168		0.688	2168						
231	2nd Function Mono-PCBs				0.8886	1,000	0.00		0.000	NO	997.0		0.188	997.0						
232	3rd Function Mono-PCBs				1.0918	1,000	0.00		0.000	NO	1481		1.55	1481						
233	Total Hept-PCBs				1.3891	1,000	0.00		0.000	NO	1280		1.28	1280						
234	3rd Function Octa-PCBs				1.0028	1,000	0.00		0.000	NO	445.1		0.322	445.1						
235	2nd Function Octa-PCBs				1.1488	1,000	0.00		0.000	NO	184.1		0.260	184.1						

#	Name	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row	RPV	col/row
83	PCB-114	42.34	42.34	6.182e5	3.282e5	1.580	1.87	NO	82.841	82.841									
91	PCB-122	42.48	42.47	4.218e5	2.889e5	1.580	1.88	NO	82.105	82.105									
95	PCB-126	43.23	43.23	4.722e5	3.022e5	1.580	1.88	NO	82.880	82.880									
98	PCB-127	43.87	43.87	4.881e5	3.184e5	1.580	1.87	NO	82.188	82.188									
97	PCB-128	45.84	45.84	6.382e5	3.900e5	1.580	1.84	NO	82.138	82.138									



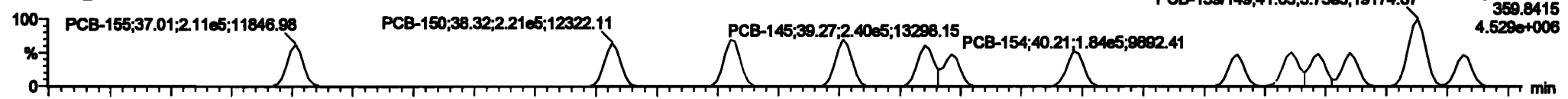
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

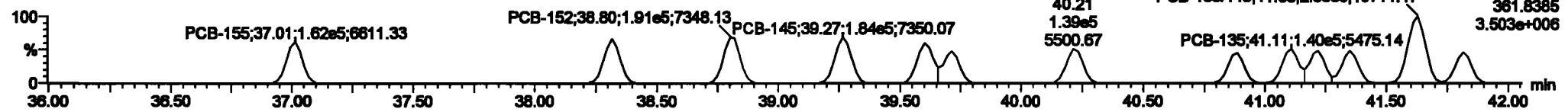
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PCB-155

200601K1\_4

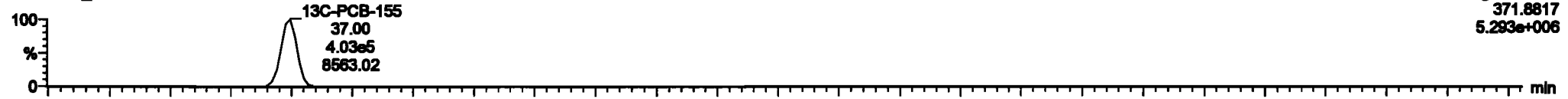


200601K1\_4

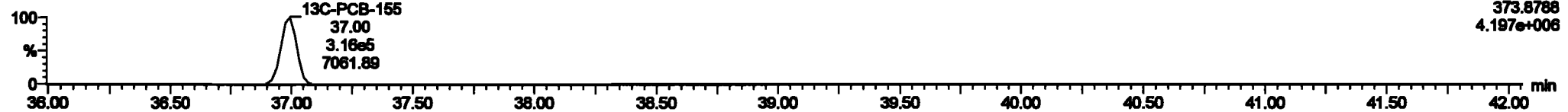


13C-PCB-155

200601K1\_4

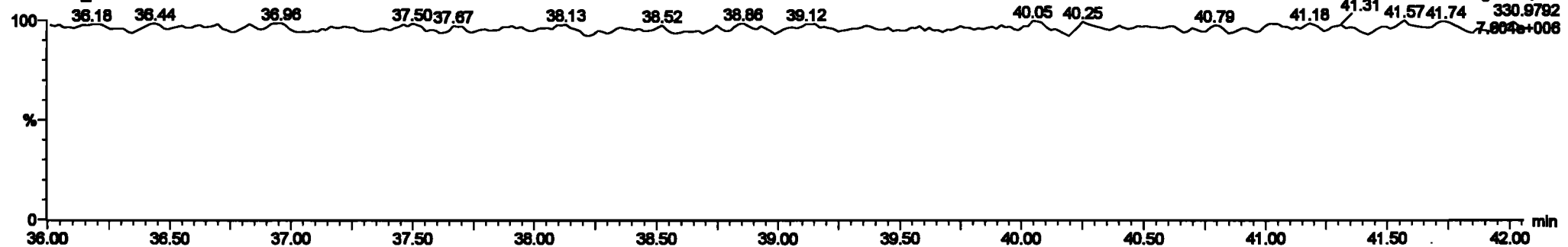


200601K1\_4



PFK3c

200601K1\_4

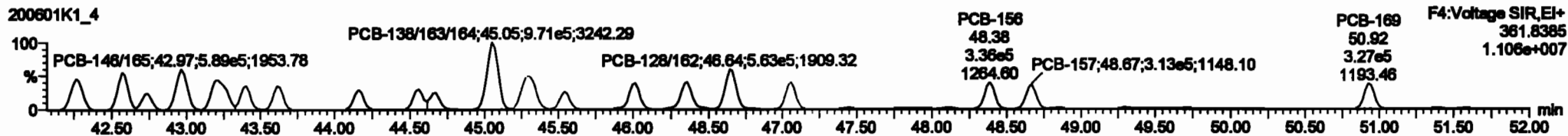
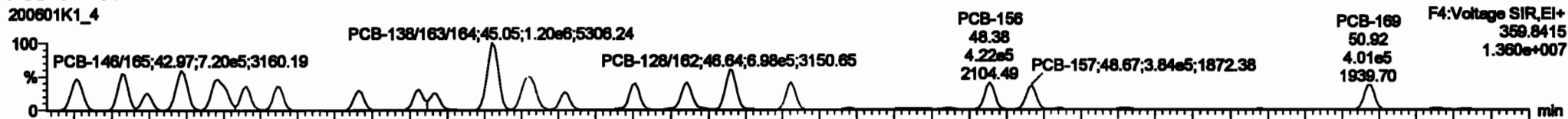


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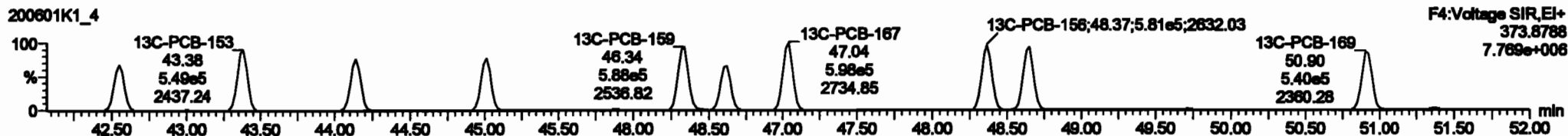
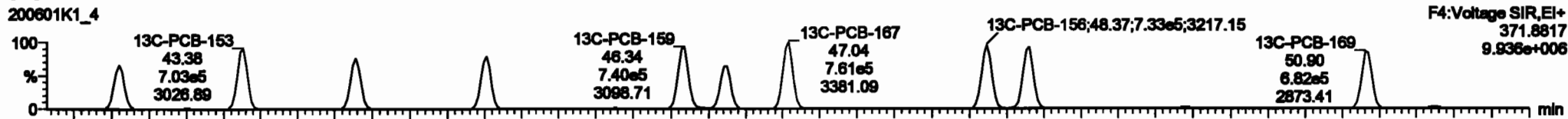
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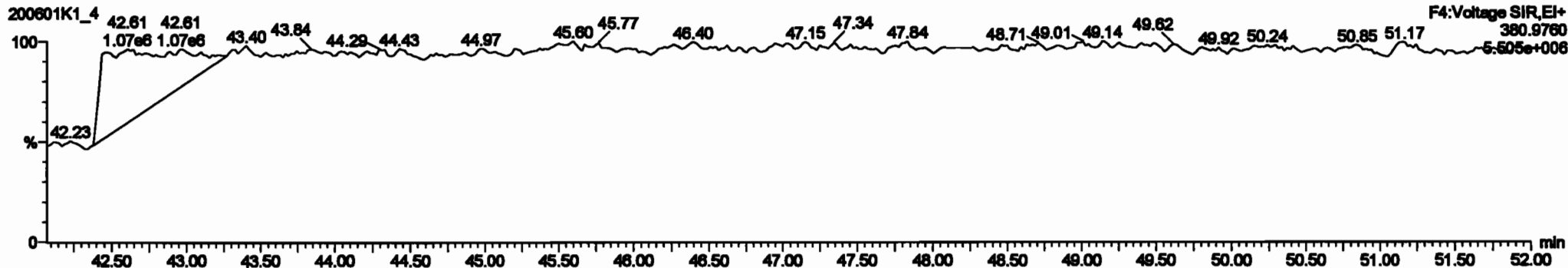
PCB-134/143



13C-PCB-153



PFK4b



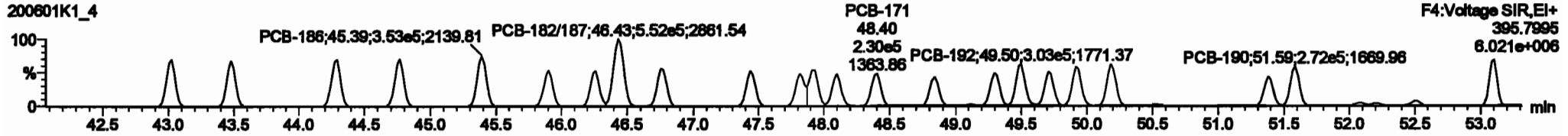
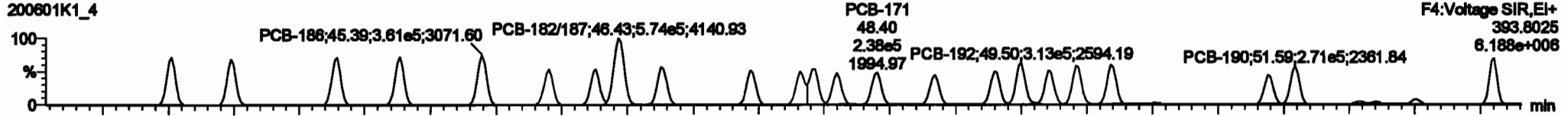


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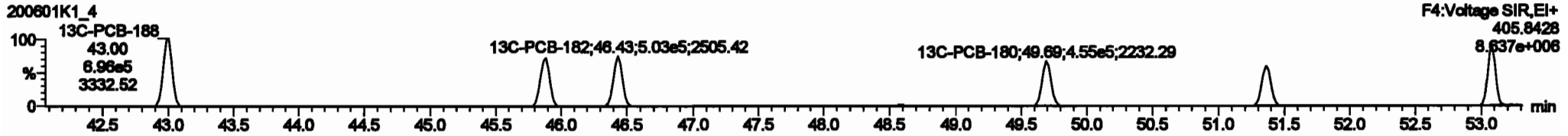
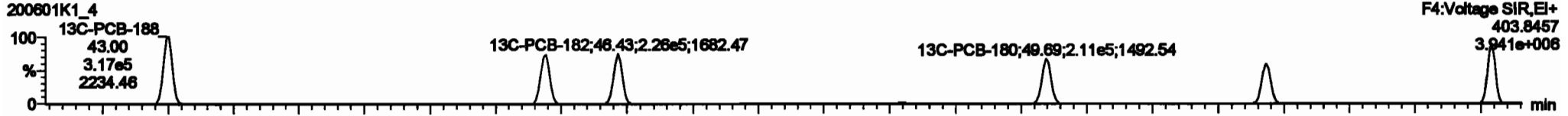
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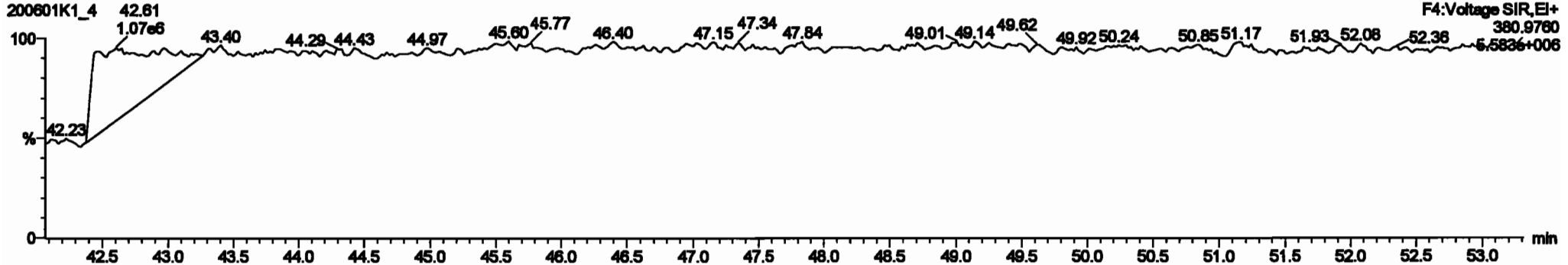
**PCB-188**



**13C-PCB-188**



**PFK4c**





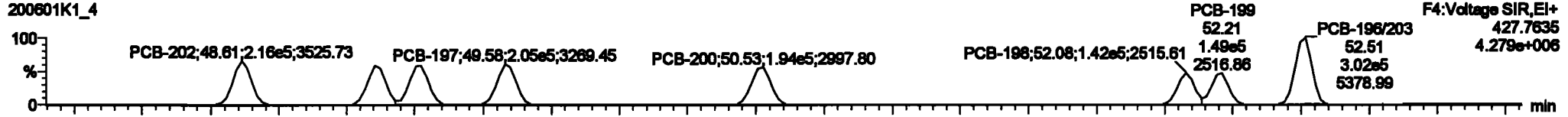
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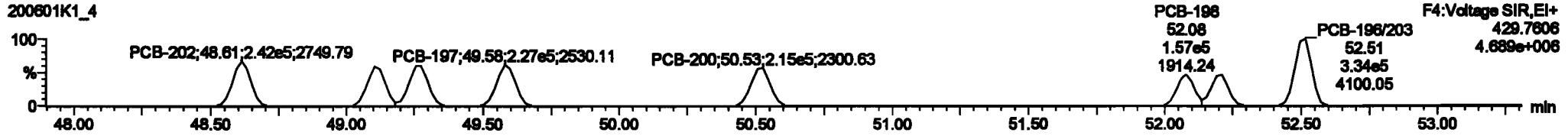
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PCB-202

200601K1\_4

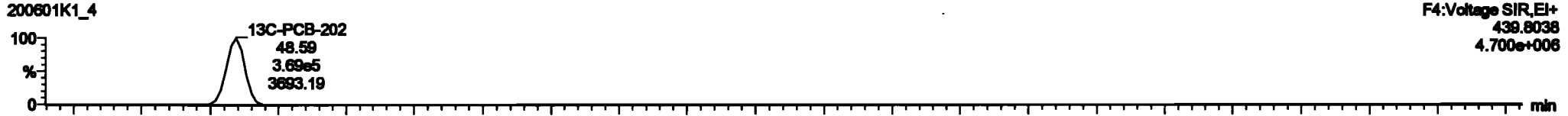


200601K1\_4

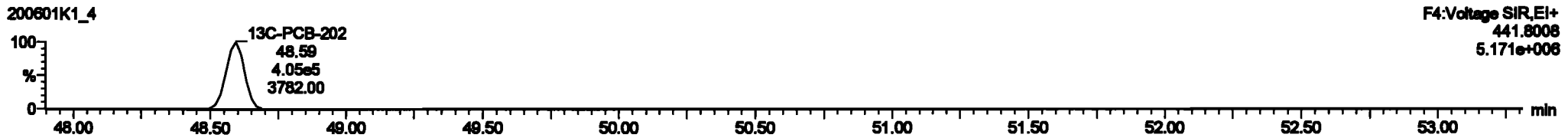


13C-PCB-202

200601K1\_4

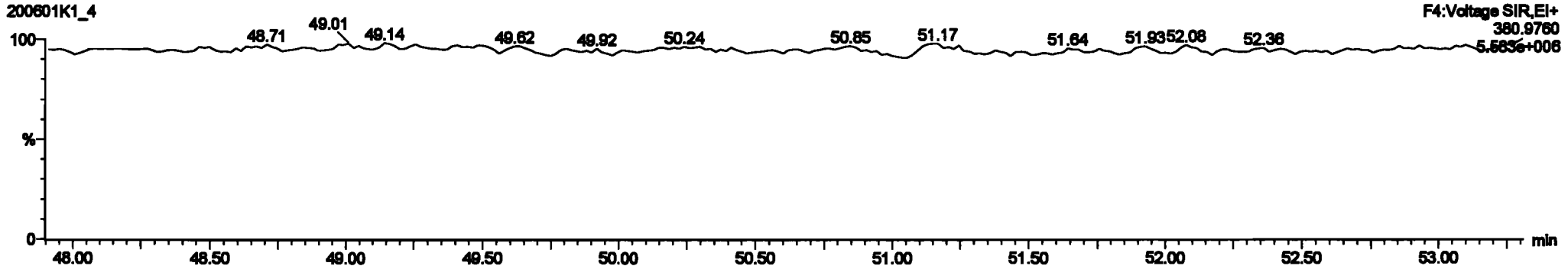


200601K1\_4



PFK4d

200601K1\_4



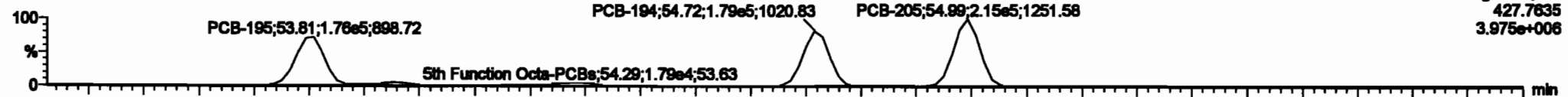
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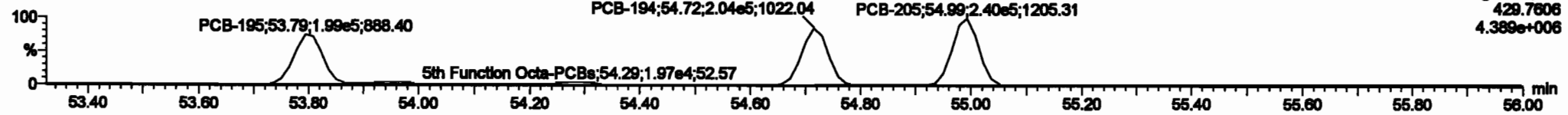
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**PCB-195**

200601K1\_4

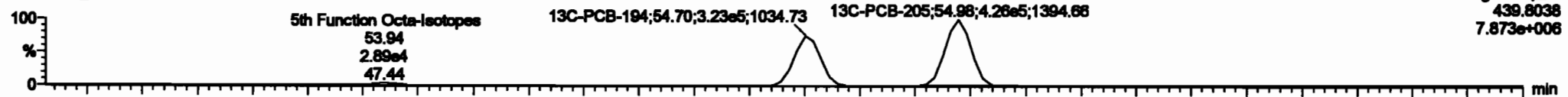


200601K1\_4

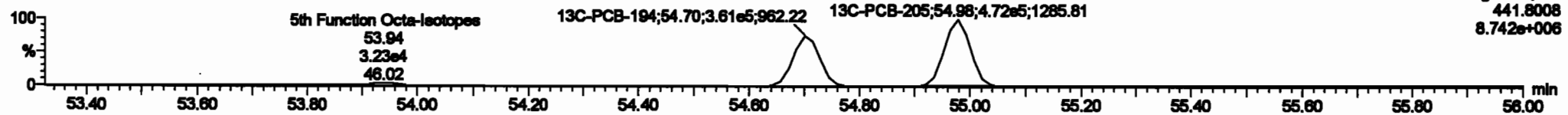


**13C-PCB-194**

200601K1\_4

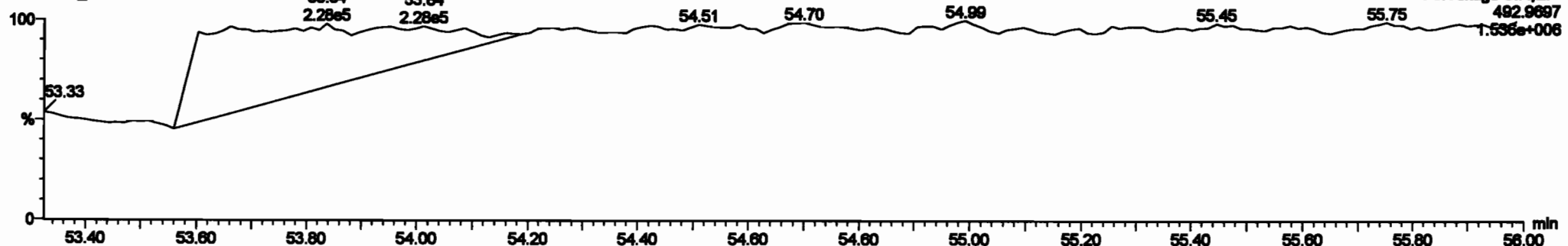


200601K1\_4



**PFK5a**

200601K1\_4



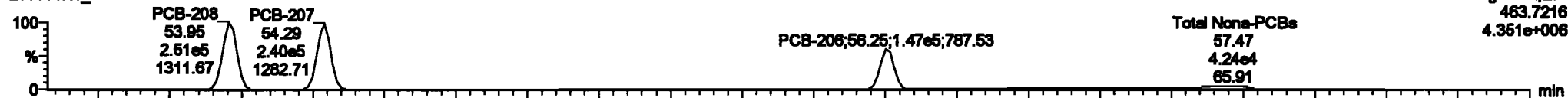
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

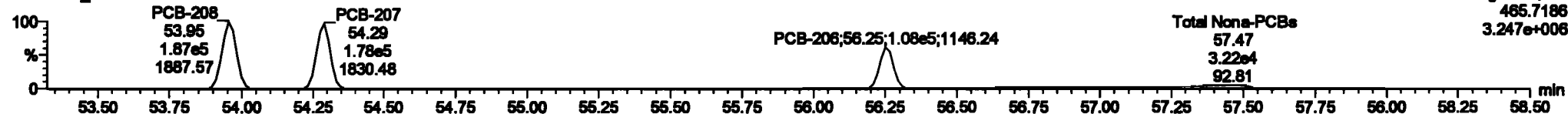
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**PCB-208**

200601K1\_4

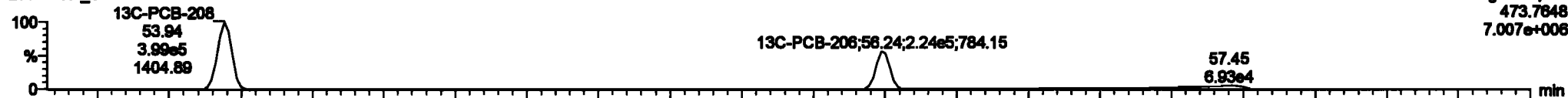


200601K1\_4

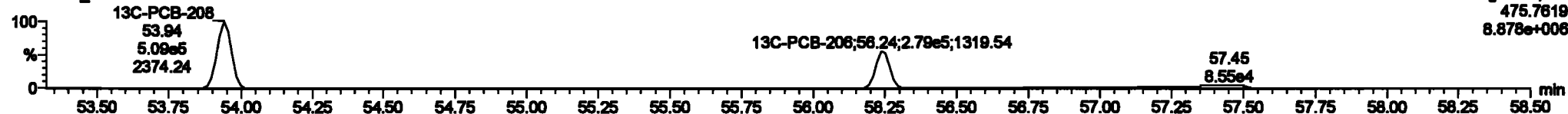


**13C-PCB-208**

200601K1\_4

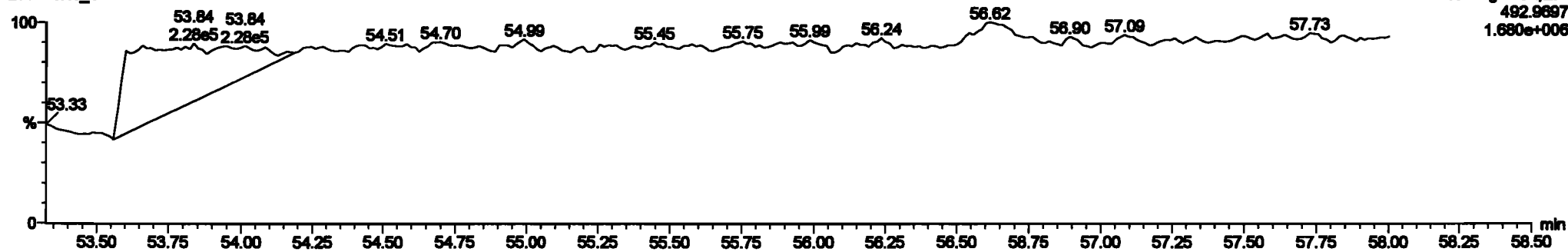


200601K1\_4



**PFK5**

200601K1\_4



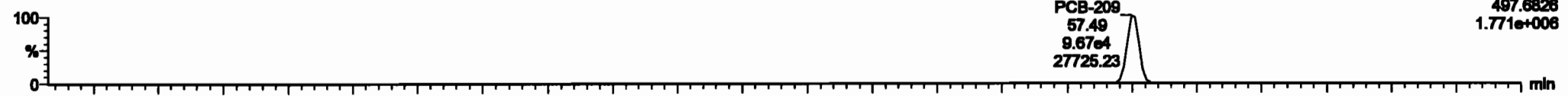
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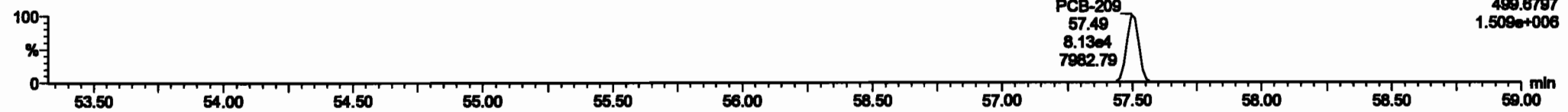
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**PCB-209**

200601K1\_4

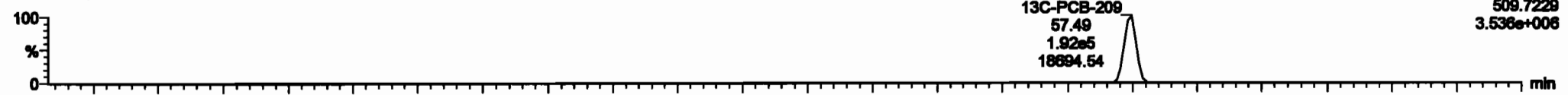


200601K1\_4

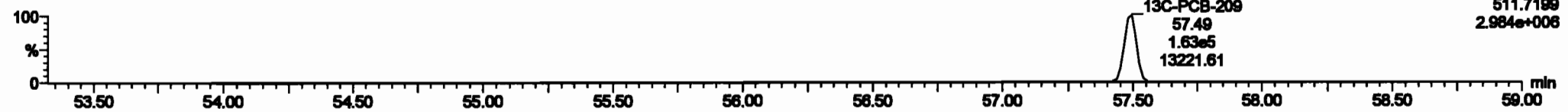


**13C-PCB-209**

200601K1\_4

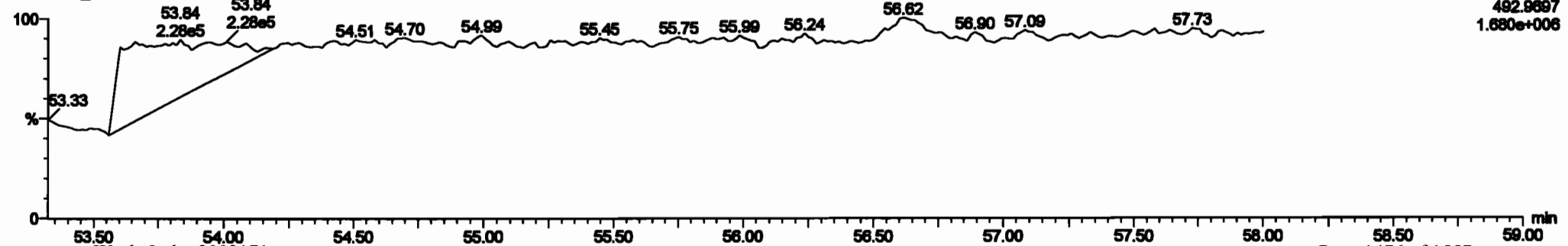


200601K1\_4



**PFK5b**

200601K1\_4



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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

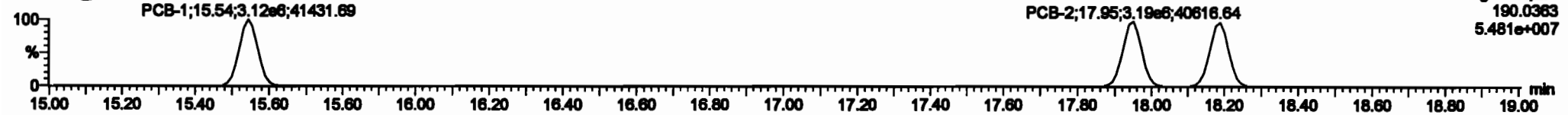
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**PCB-1**

200601K1\_5



200601K1\_5

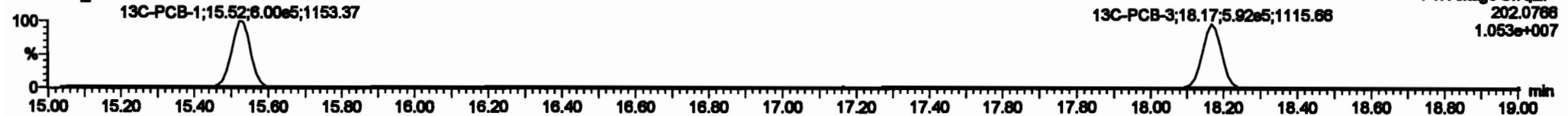


**13C-PCB-1**

200601K1\_5

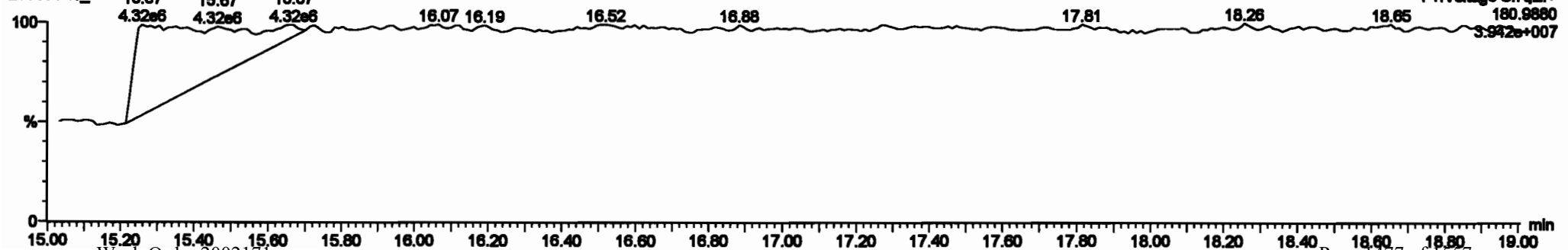


200601K1\_5



**PFK1**

200601K1\_5

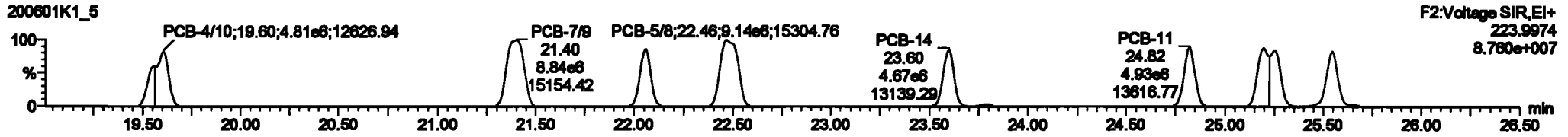
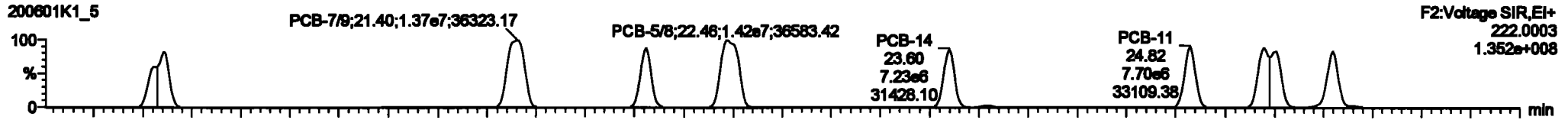


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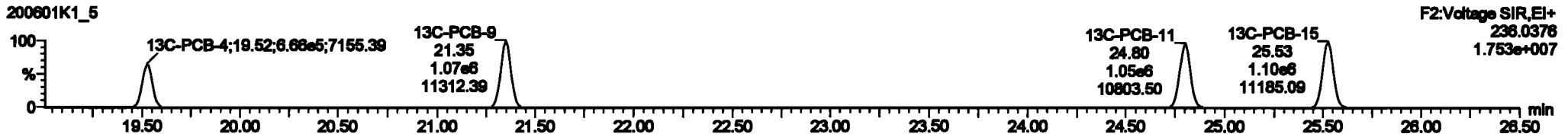
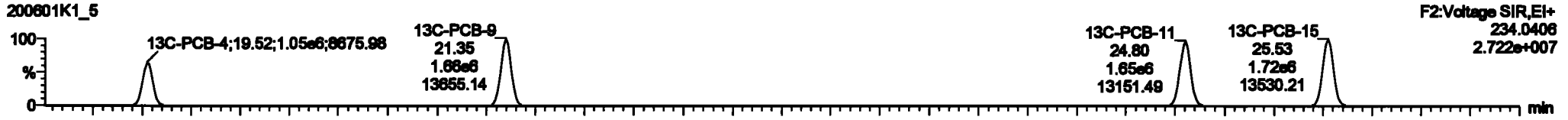
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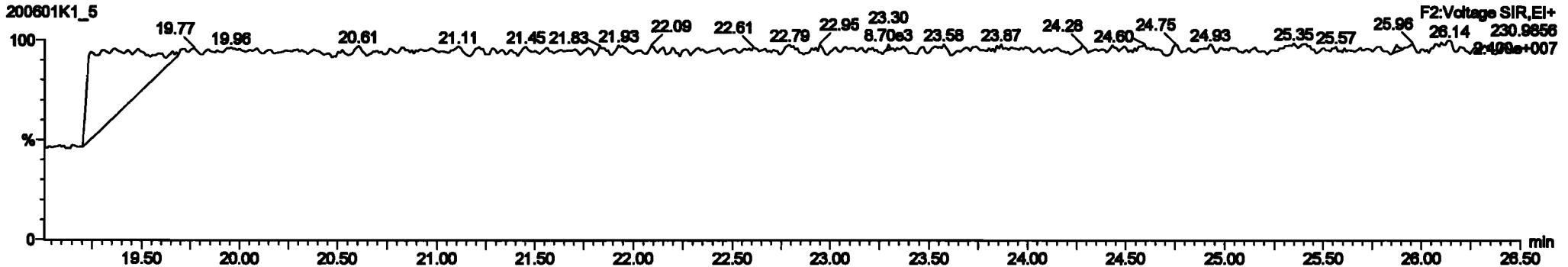
PCB-4/10



13C-PCB-4

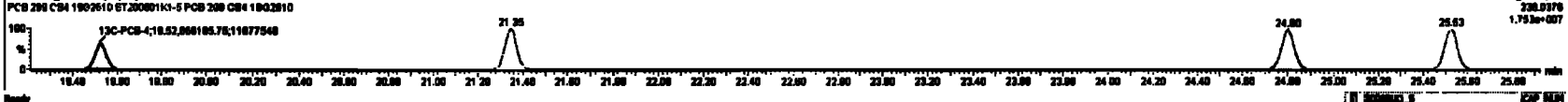
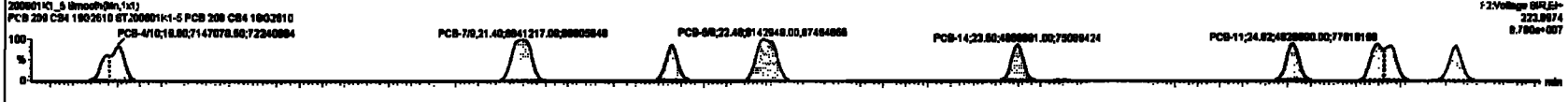
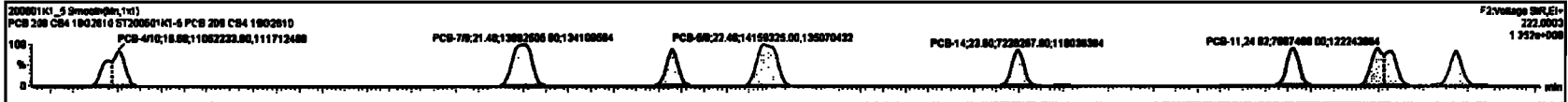


PFK2a



#	Name	Step	Qty	By	RFQ	Unit Cost	Page 001	RF	Page 001	RFQ	Unit Cost	QTY	Value	QTY	Value
220	13C-PCB-78	1.0000	0.78	NO	1.0000	1.0000	27.70	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
221	13C-PCB-178	7.0000	0.44	NO	1.0000	1.0000	45.80	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
222	1st Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
223	2nd Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
224	3rd Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
225	4th Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
226	5th Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
227	6th Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
228	7th Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
229	8th Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
230	9th Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
231	10th Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
232	11th Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000
233	Total Floor PCBs				1.0000	1.0000	0.00	0.0000	0.0000	NO	0.0000	0.0000	0.0000	0.0000	0.0000

#	Name	Step	Qty	By	RFQ	Unit Cost	Page 001	RF	Page 001	RFQ	Unit Cost	QTY	Value	QTY	Value
4	PCB-4A0	19.00	19.00	1.0000	7.5400	1.00	1.00	NO	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	PCB-7A0	21.41	21.40	1.0000	0.0000	1.00	1.00	NO	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
6	PCB-8	22.00	22.00	7.0000	4.0000	1.00	1.00	NO	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	PCB-8A	22.00	22.00	1.0000	0.0000	1.00	1.00	NO	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
8	PCB-4A	23.01	23.00	7.0000	4.0000	1.00	1.00	NO	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
9	PCB-4A	24.00	24.00	7.0000	4.0000	1.00	1.00	NO	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	PCB-12A0	26.20	26.20	1.0000	0.0000	1.00	1.00	NO	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
11	PCB-16	26.00	26.00	7.0000	4.0000	1.00	1.00	NO	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000



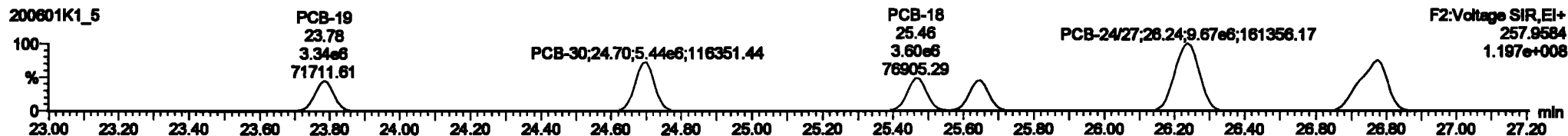
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time

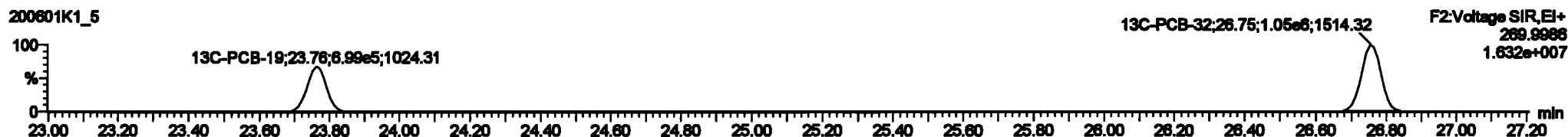
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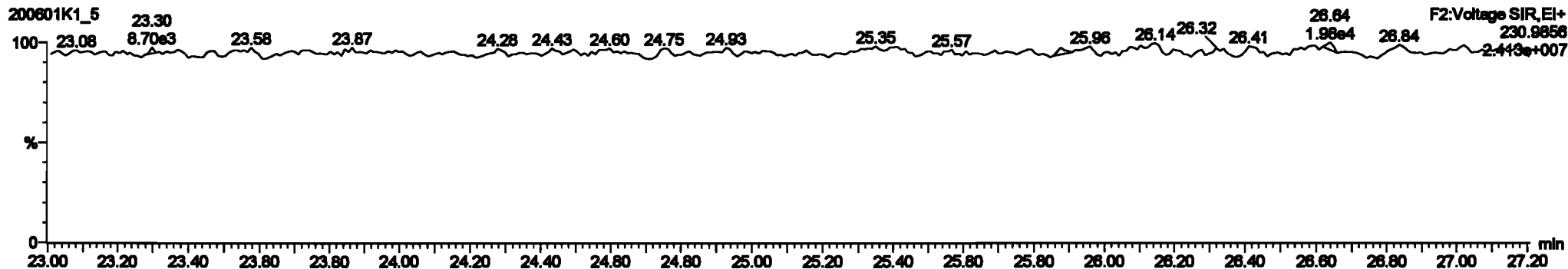
**PCB-19**



**13C-PCB-19**



**PFK2b**



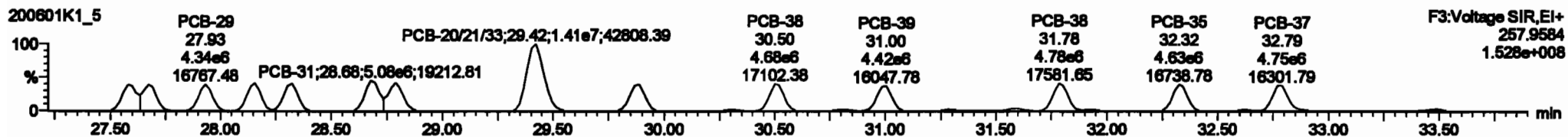
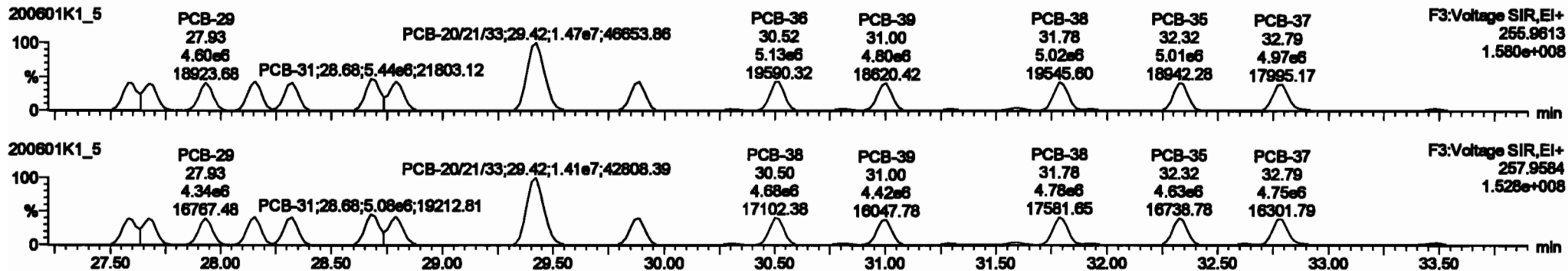


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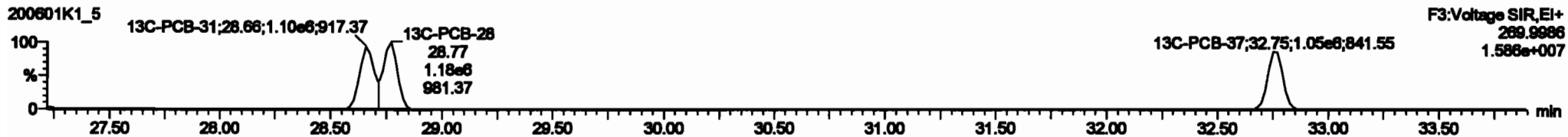
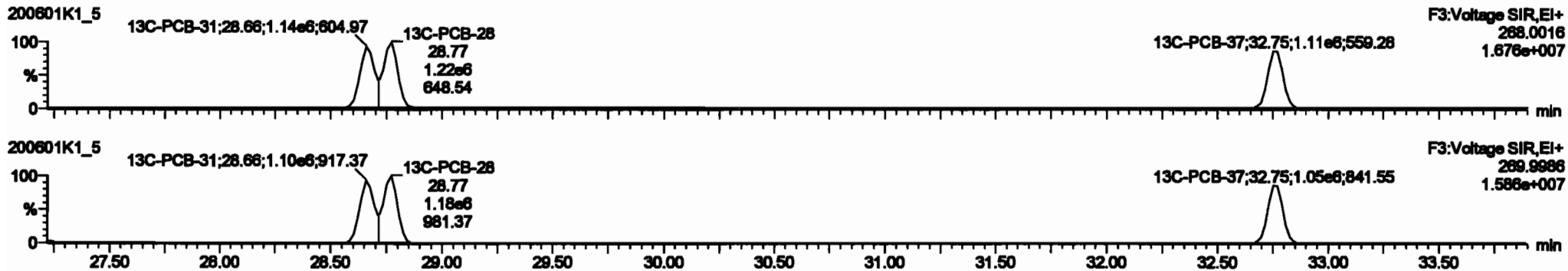
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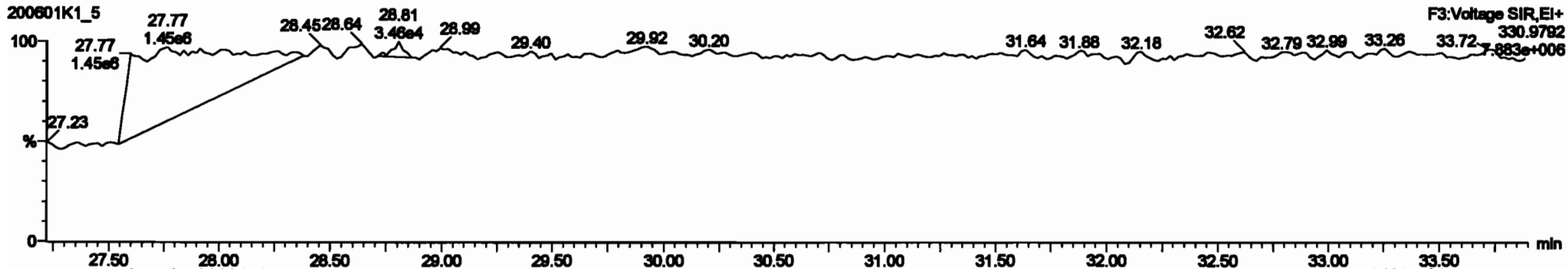
**PCB-34**



**13C-PCB-28**



**PFK3d**



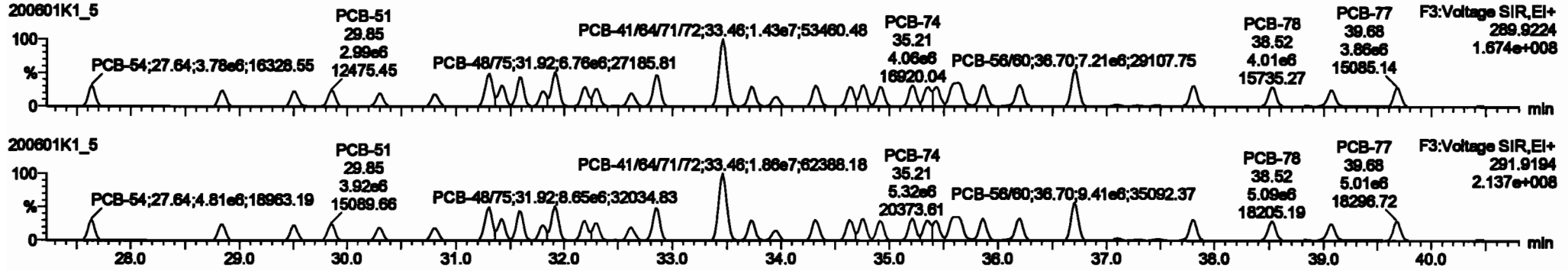


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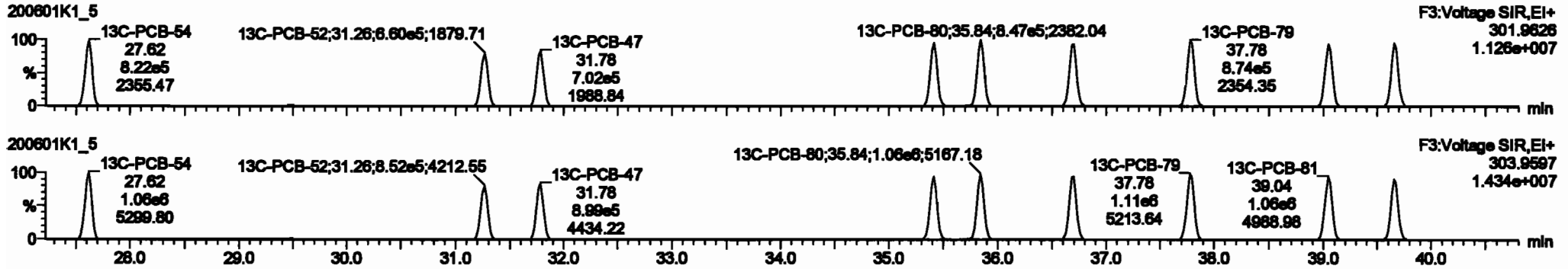
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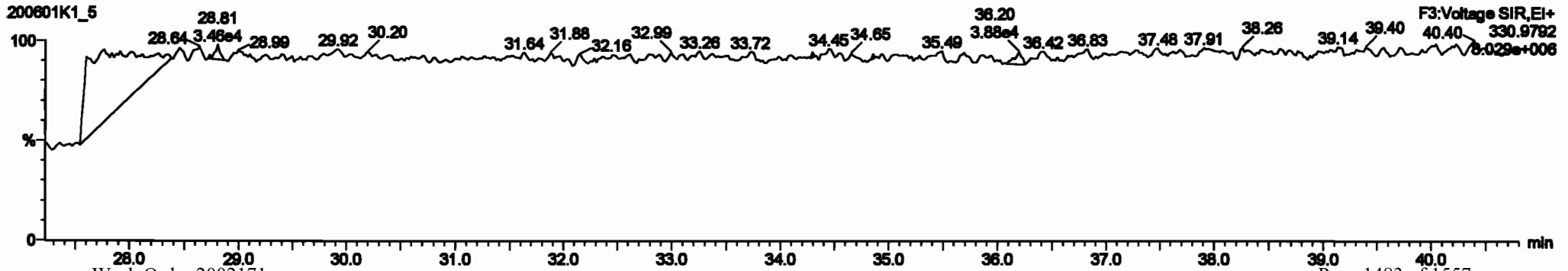
**PCB-54**



**13C-PCB-54**



**PFK3a**



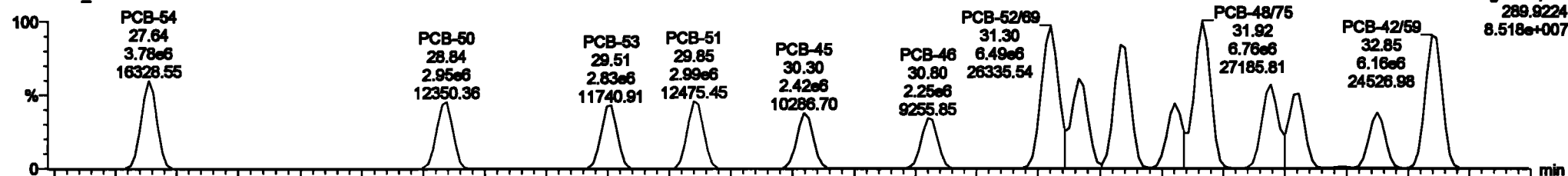
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

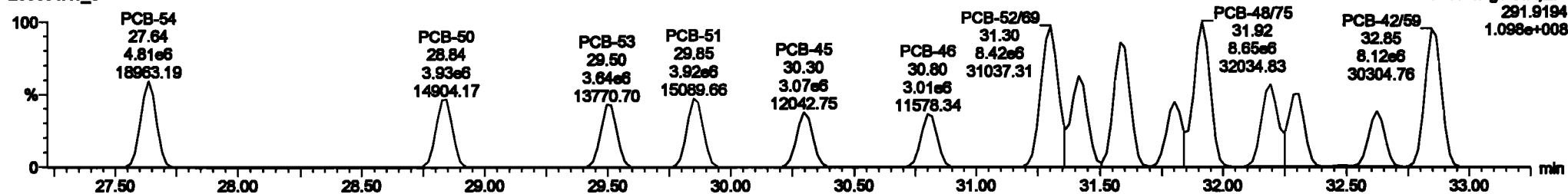
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PCB-50

200601K1\_5



200601K1\_5



13C-PCB-52

200601K1\_5



200601K1\_5

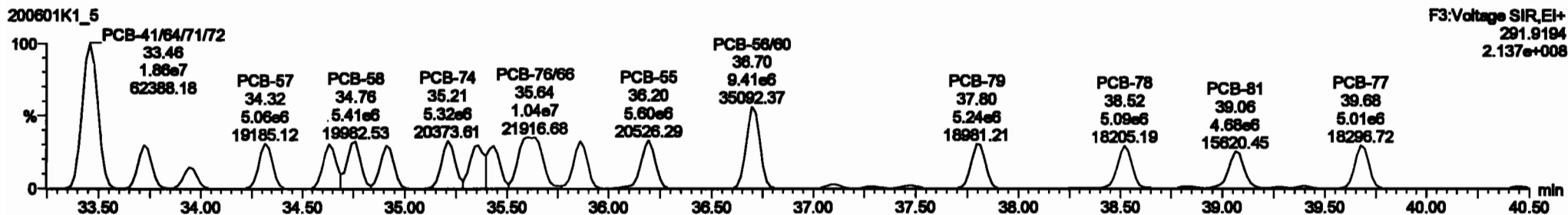
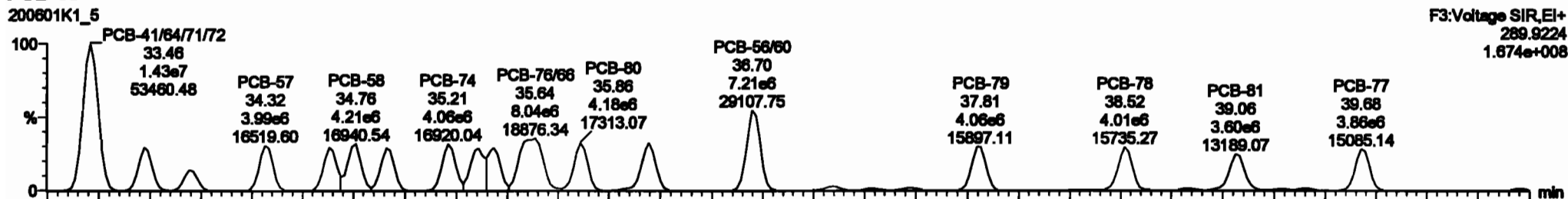


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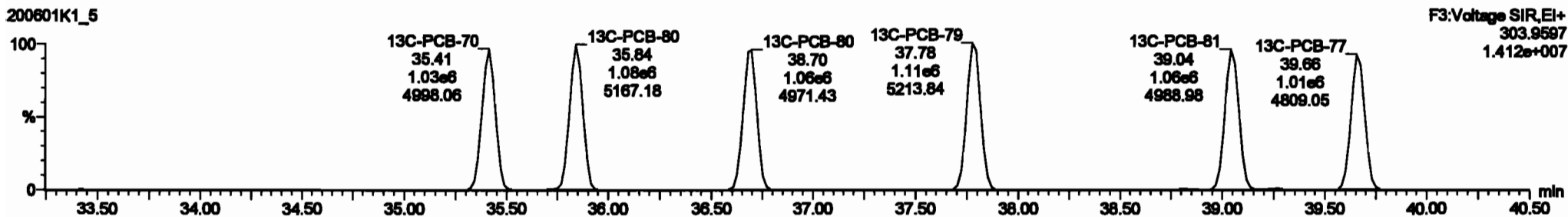
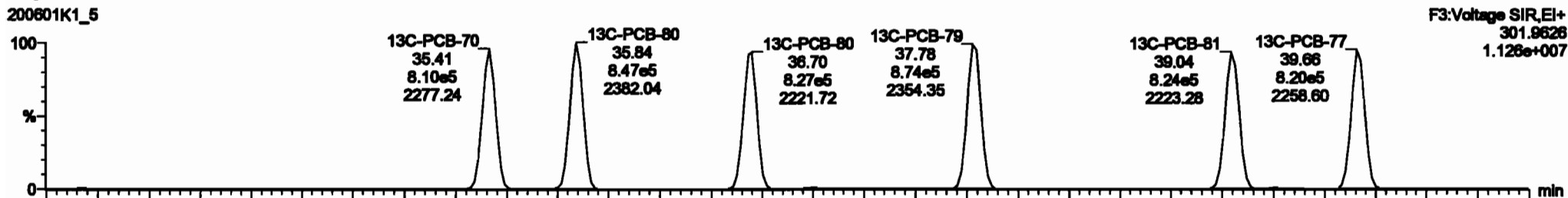
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Name: 200601K1\_5, Date: 01-Jun-2020, Time: 16:20:32, ID: ST200601K1-5 PCB 209 CS4 19G2610, Description: PCB 209 CS4 19G2610

PCB-68



13C-PCB-60



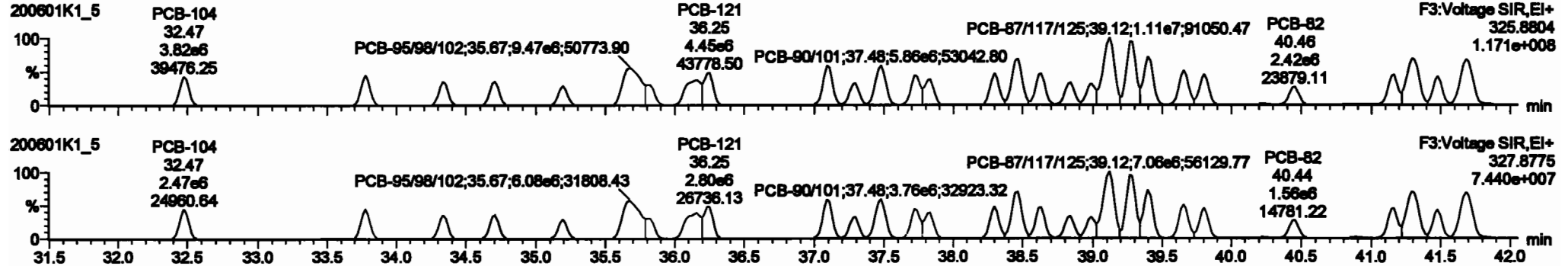


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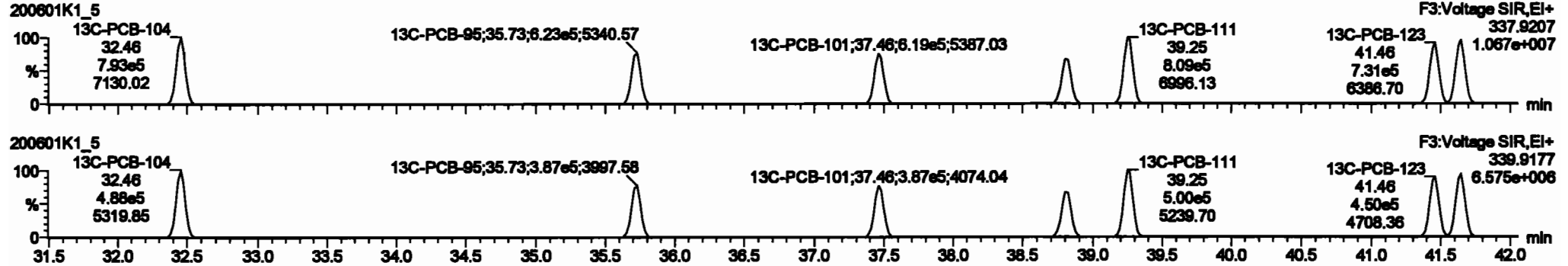
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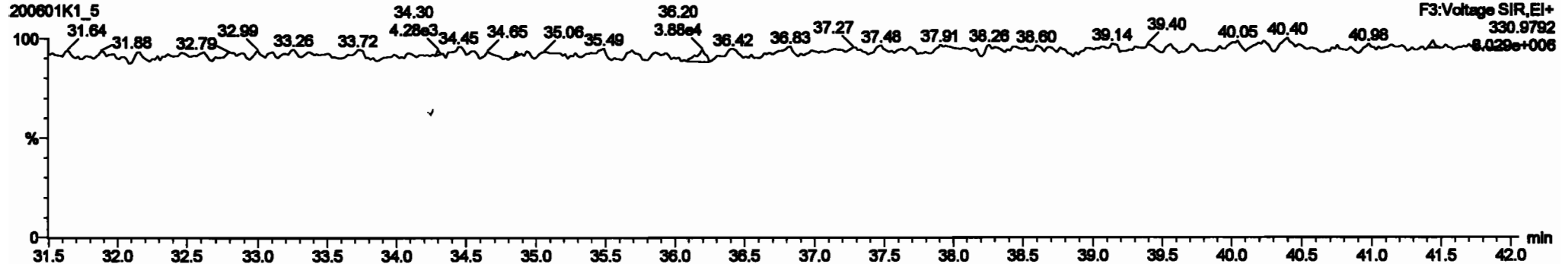
**PCB-104**



**13C-PCB-104**



**PFK3b**

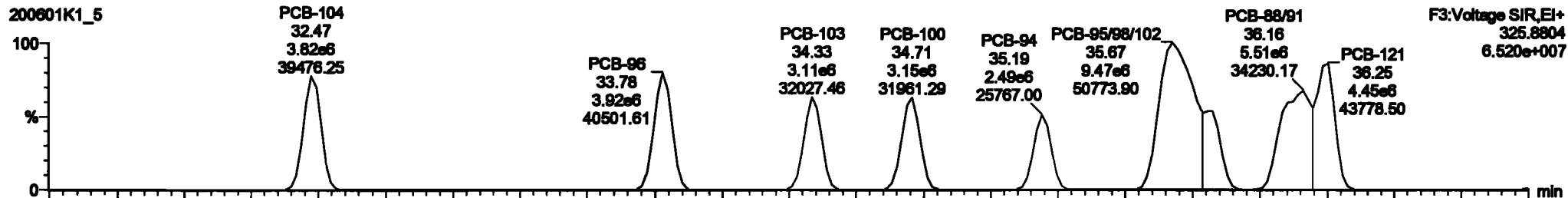


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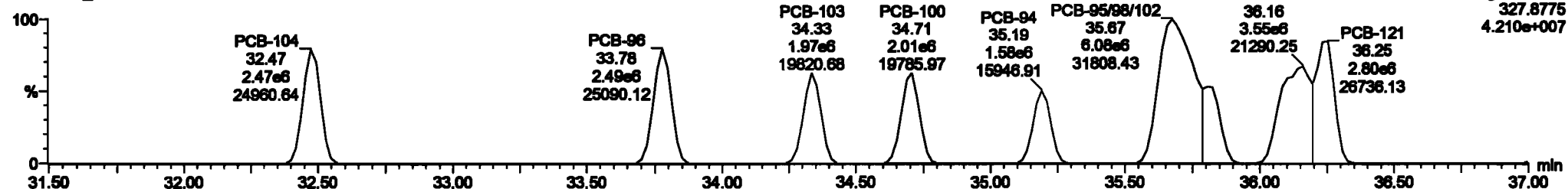
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Name: 200601K1\_5, Date: 01-Jun-2020, Time: 16:20:32, ID: ST200601K1-5 PCB 209 CS4 19G2610, Description: PCB 209 CS4 19G2610

**PCB-96**



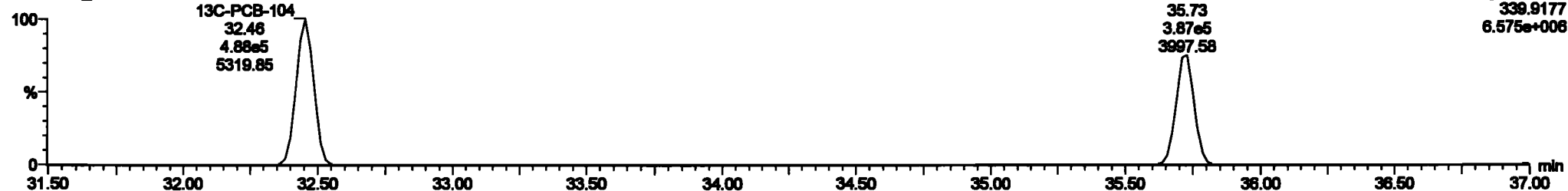
200601K1\_5



**13C-PCB-95**



200601K1\_5





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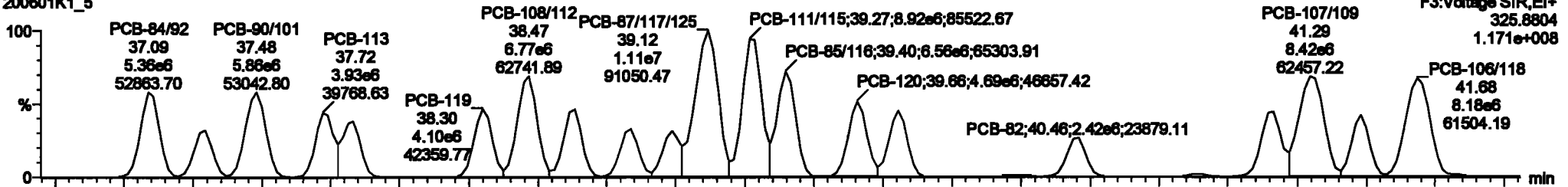
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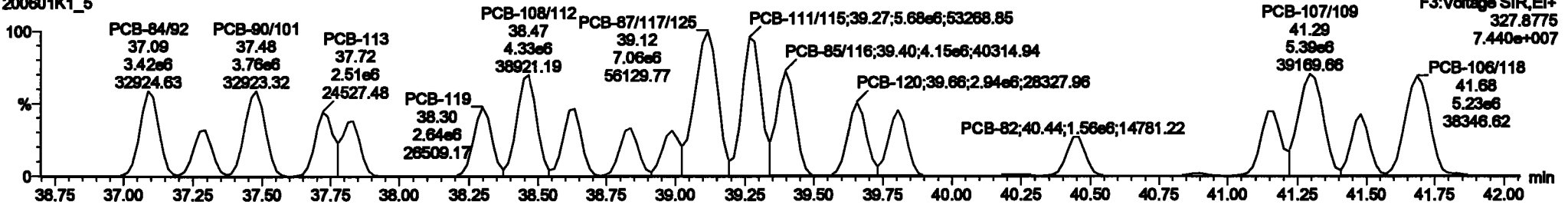
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PCB-119

200601K1\_5

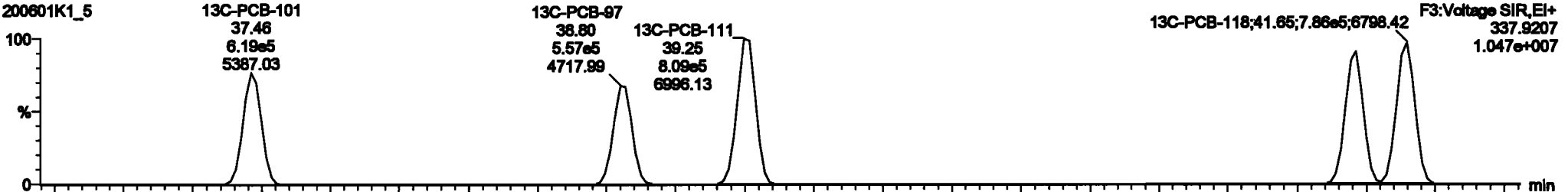


200601K1\_5

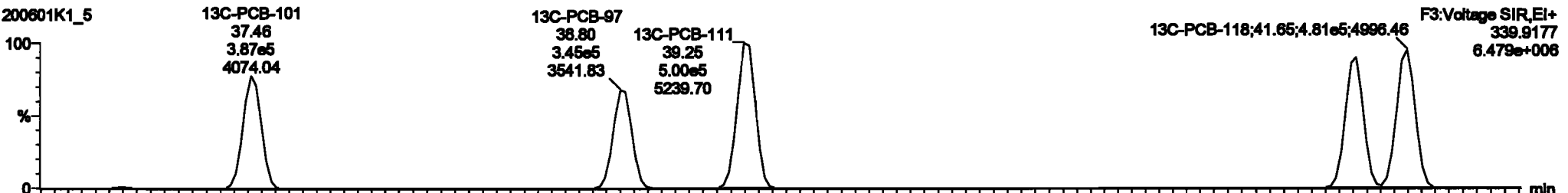


13C-PCB-111

200601K1\_5



200601K1\_5



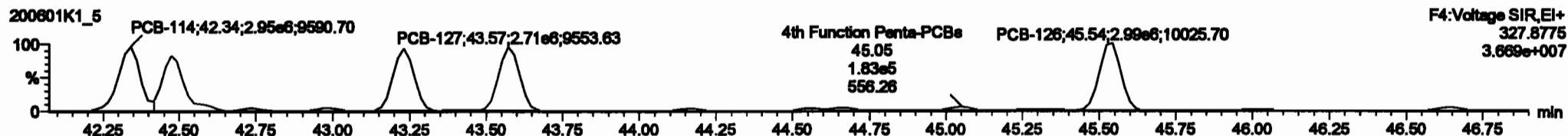
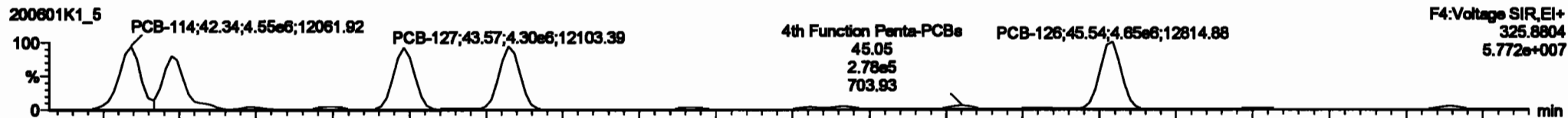


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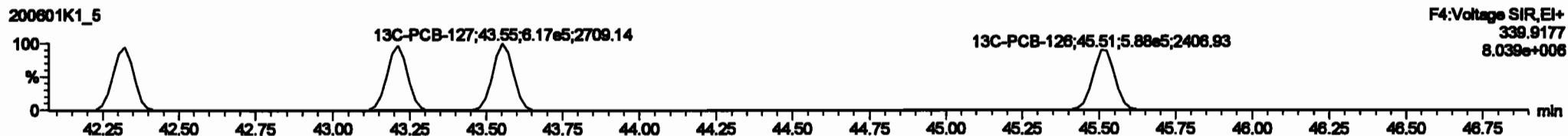
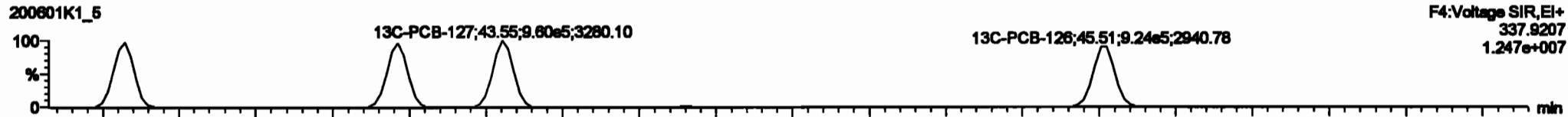
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

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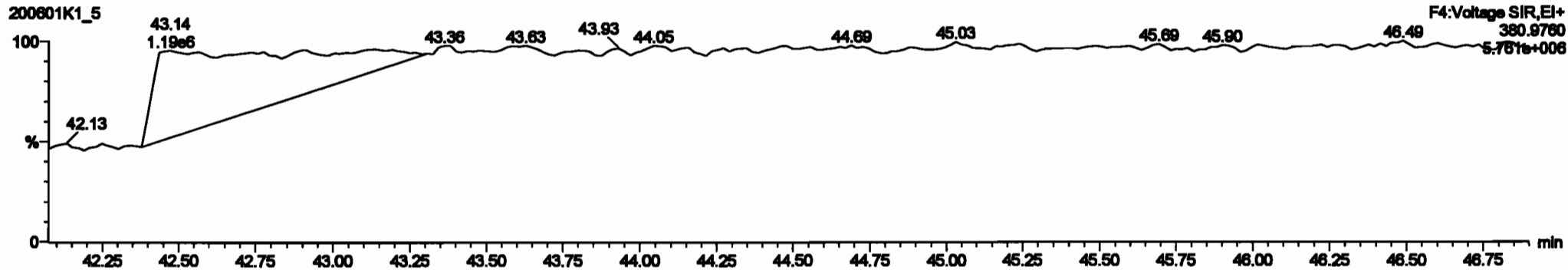
**PCB-114**



**13C-PCB-114**

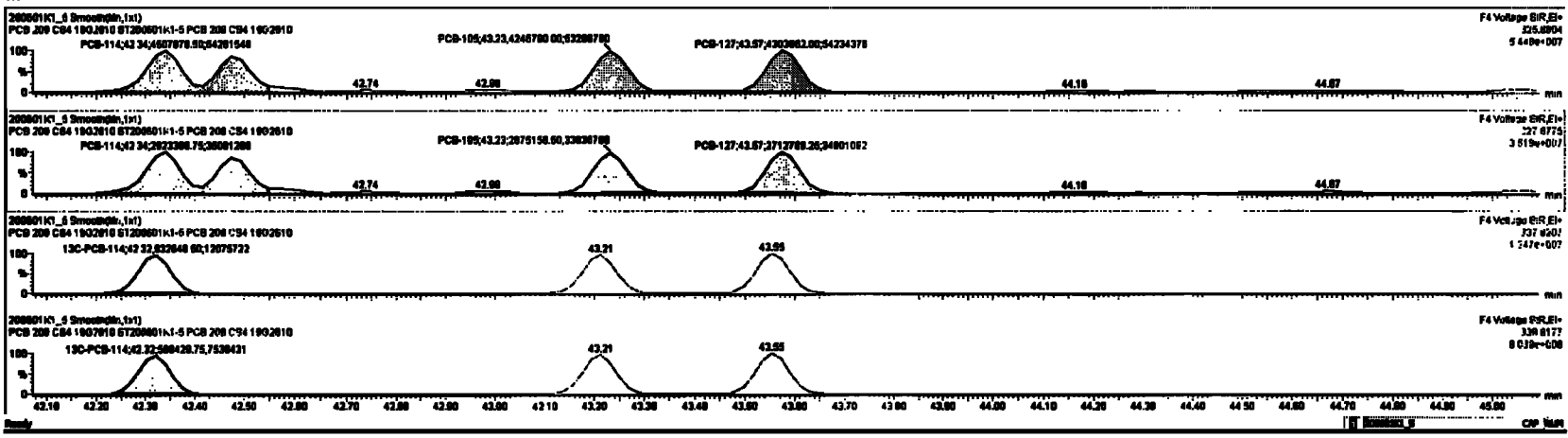


**PFK4a**



#	Comp	Range	RA	Q1	Q3	Min	Max	Width	Height	Area	Cent	Skew	SL	SRPC
220	13C-PCB-76	1.80e5	0.78	NO	1.80e5	1.80e5	37.70	37.70	0.000	0.000	NO	87.63	87.6	0.0073
220	13C-PCB-170	7.80e5	0.84	NO	1.80e5	1.80e5	46.07	46.08	0.000	0.000	NO	87.90	87.2	0.112
220	Total Mass-PCBs				1.80e5	1.80e5	0.00	0.00	0.000	0.000	NO	1.260		0.0081
220	Total CL-PCBs				1.80e5	1.80e5	0.00	0.00	0.000	0.000	NO	91.20		0.240
220	Total PAH-PCBs				1.80e5	1.80e5	0.00	0.00	0.000	0.000	NO	3407		0.110
220	Total PAHs-PCBs				0.80e5	1.80e5	0.00	0.00	0.000	0.000	NO	8774		0.002
220	Total PCBs-PCBs				1.80e5	1.80e5	0.00	0.00	0.000	0.000	NO	17880		1.77
220	Total PCBs-PCBs				1.31e5	1.80e5	0.00	0.00	0.000	0.000	NO	17480		0.004
220	Total PCBs-PCBs				1.80e5	1.80e5	0.00	0.00	0.000	0.000	NO	3020		0.000
220	Total PCBs-PCBs				0.80e5	1.80e5	0.00	0.00	0.000	0.000	NO	8874		0.000
220	Total PCBs-PCBs				1.80e5	1.80e5	0.00	0.00	0.000	0.000	NO	12148		2.07
220	Total PCBs-PCBs				1.30e5	1.80e5	0.00	0.00	0.000	0.000	NO	18000		4.04

PCB	Range	Height	Area	Min	Max	Width	Height	Area	Cent	Skew	SL	SRPC
80	PCB-114	42.34	42.34	4.00e4	2.00e4	1.80e5	1.54	NO	420.12	420.12		
80	PCB-122	42.60	42.67	3.00e4	2.00e4	1.80e5	1.05	NO	016.27	016.27		
80	PCB-105	43.20	43.23	4.20e4	2.00e4	1.80e5	1.08	NO	420.08	420.08		
80	PCB-127	43.87	43.87	4.20e4	2.71e4	1.80e5	1.08	NO	420.18	420.18		
80	PCB-128	48.57	48.54	4.00e4	2.00e4	1.80e5	1.08	NO	420.08	420.08		



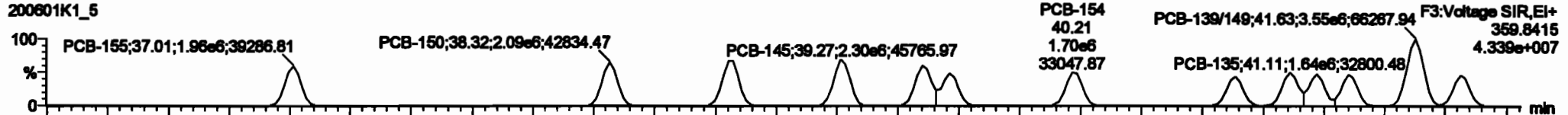
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

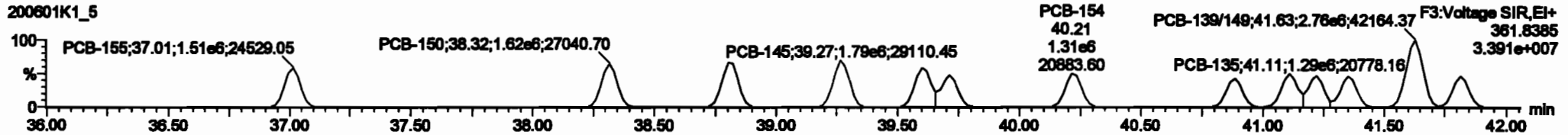
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**PCB-155**

200601K1\_5

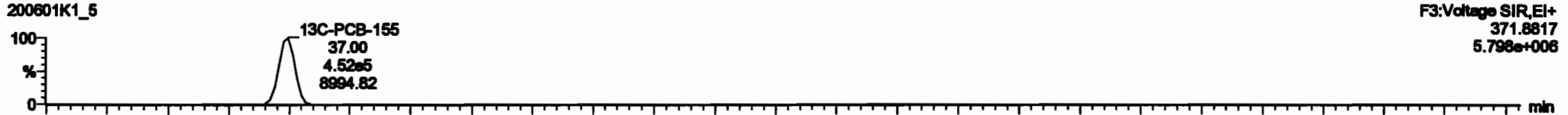


200601K1\_5

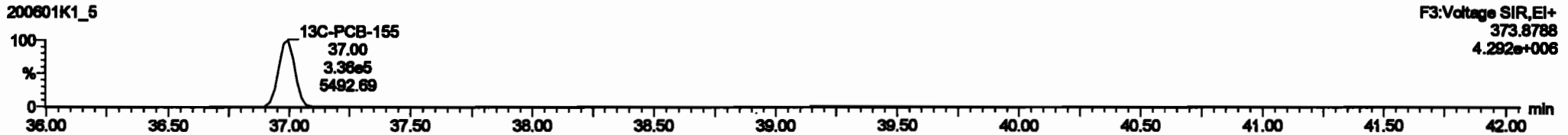


**13C-PCB-155**

200601K1\_5

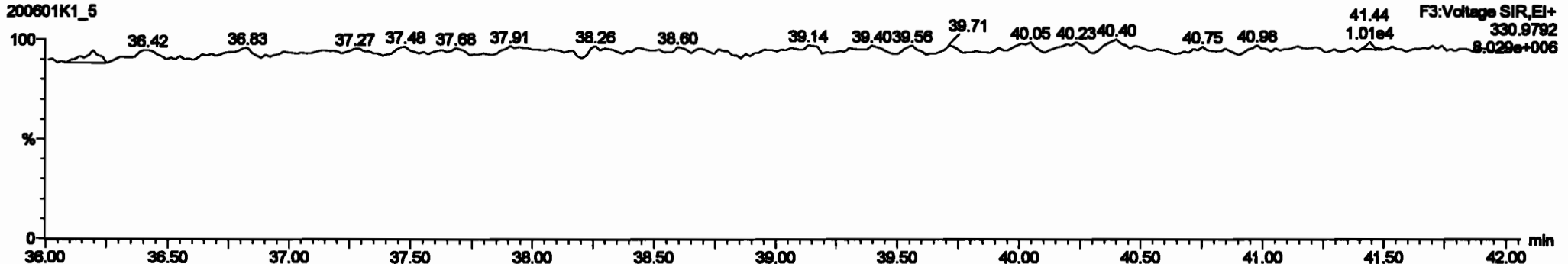


200601K1\_5



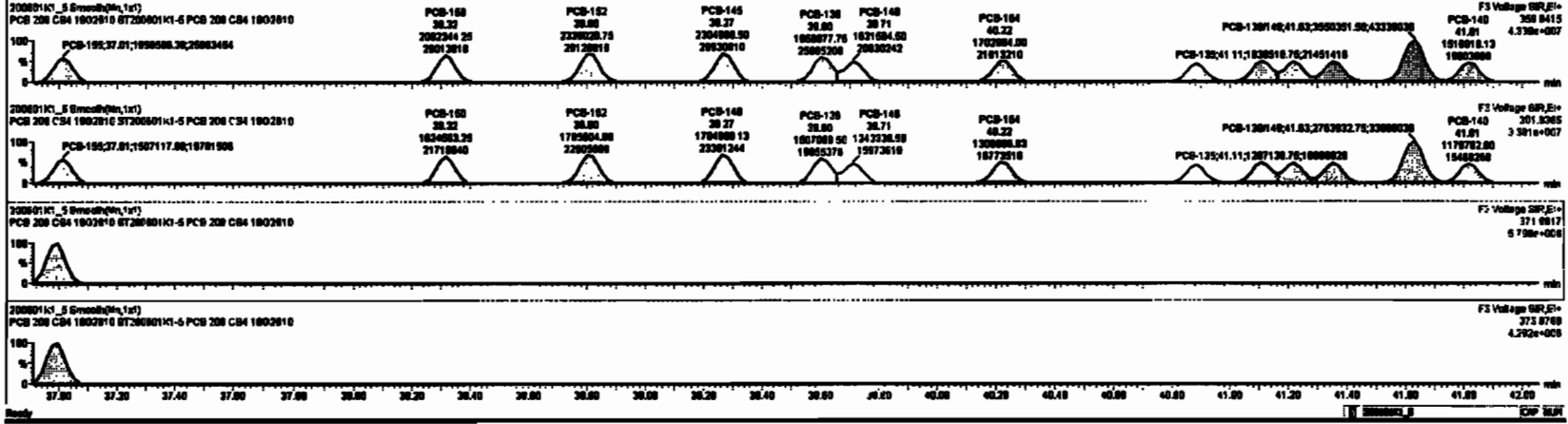
**PFK3c**

200601K1\_5



ID	Step	Step	RM	RM	OFF	Calcd	Revised	RE	Pres.R.	Unit	RMF Pts	Chgs	RMF	RMPC
222	12C-PCB-19	1.80e6	0.78	NO	1.0001	1.000	37.78	37.78	0.000	0.000	NO	87.43	87.4	0.0073
223	12C-PCB-170	7.80e6	0.64	NO	1.0000	1.000	48.87	48.88	0.023	0.023	NO	87.18	87.2	0.112
224	Total Micro-PCBs				1.0000	1.000	0.00	0.000	0.000	0.000	NO	1200	0.0201	1200
225	Total S-PCBs				1.0007	1.000	0.00	0.000	0.000	0.000	NO	8130	0.2406	8130
226	2nd Paraffin 10-PCBs				1.0007	1.000	0.00	0.000	0.000	0.000	NO	3407	0.1100	3407
227	2nd Paraffin 16-PCBs				0.8620	1.000	0.00	0.000	0.000	0.000	NO	8774	0.0803	8774
228	Total Tube-PCBs				1.0776	1.000	0.00	0.000	0.000	0.000	NO	17000	1.37	17000
229	2nd Paraffin Penta-PCBs				1.2187	1.000	0.00	0.000	0.000	0.000	NO	17000	0.804	17000
230	4th Paraffin Penta-PCBs				1.0735	1.000	0.00	0.000	0.000	0.000	NO	2128	0.200	2128
231	Total Paraffin Penta-PCBs				1.0735	1.000	0.00	0.000	0.000	0.000	NO	2128	0.200	2128
232	4th Paraffin Hexa-PCBs				1.0000	1.000	0.00	0.000	0.000	0.000	NO	12140	2.87	12140
233	Total Hexa-PCBs				1.0000	1.000	0.00	0.000	0.000	0.000	NO	10000	4.00	10000

ID	Step	Step	RM	RM	OFF	Calcd	Revised	RE	Pres.R.	Unit	RMF Pts	Chgs	RMF	RMPC
80	PCB-100	37.80	37.81	1.80e6	1.80e6	1.200	1.20	NO	421.45	421.45				
81	PCB-100	38.30	38.30	2.00e6	1.82e6	1.200	1.20	NO	438.81	438.81				
82	PCB-102	38.80	38.80	2.20e6	1.70e6	1.200	1.20	NO	441.48	441.48				
83	PCB-140	38.30	38.27	2.20e6	1.70e6	1.200	1.20	NO	438.81	438.81				
84	PCB-130	38.80	38.80	1.80e6	1.80e6	1.200	1.20	NO	431.80	431.80				
85	PCB-140	38.72	38.71	1.80e6	1.20e6	1.200	1.20	NO	438.70	438.70				
86	PCB-101	40.20	40.20	1.20e6	1.20e6	1.200	1.20	NO	418.80	418.80				
87	PCB-101	40.80	40.80	1.40e6	1.50e6	1.200	1.20	NO	418.30	418.30				
88	PCB-130	41.13	41.11	1.80e6	1.20e6	1.200	1.20	NO	400.82	400.82				

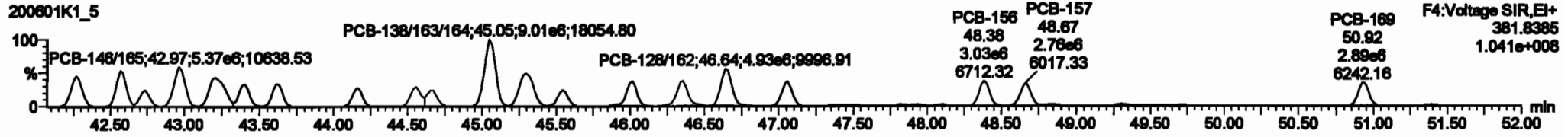
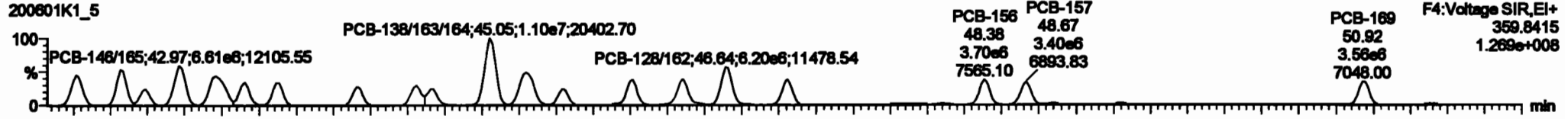


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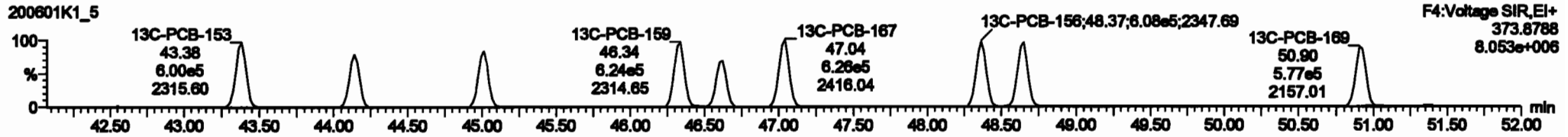
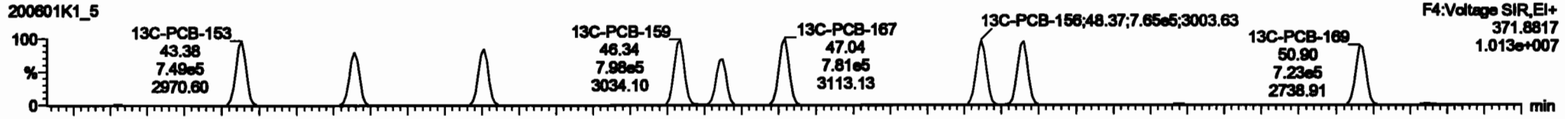
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_5, Date: 01-Jun-2020, Time: 16:20:32, ID: ST200601K1-5 PCB 209 CS4 19G2610, Description: PCB 209 CS4 19G2610

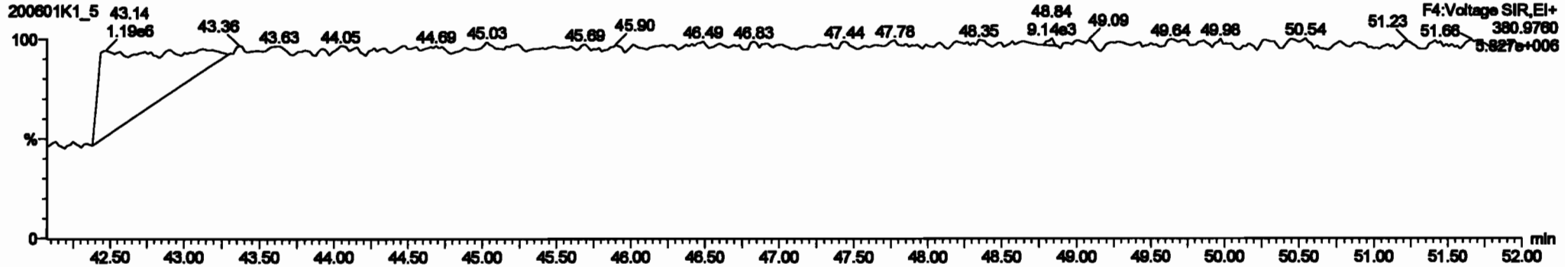
PCB-134/143



13C-PCB-153



PFK4b







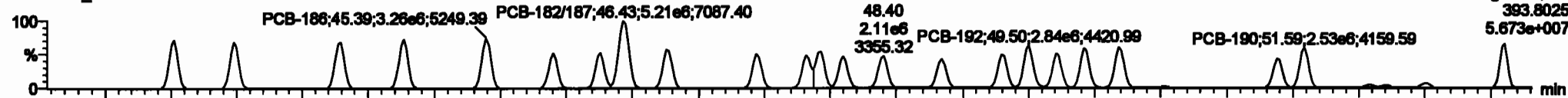
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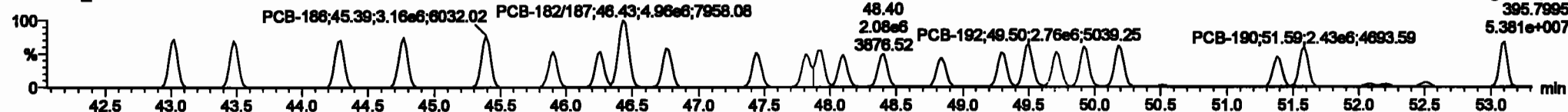
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**PCB-188**

200601K1\_5

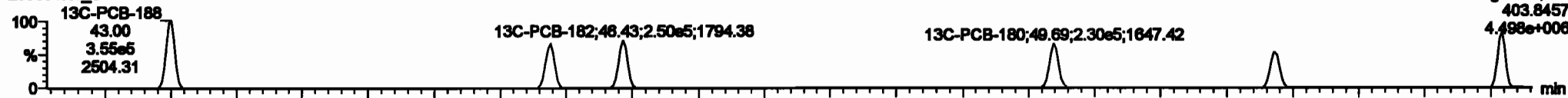


200601K1\_5

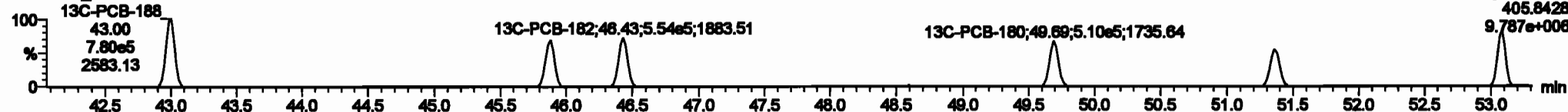


**13C-PCB-188**

200601K1\_5

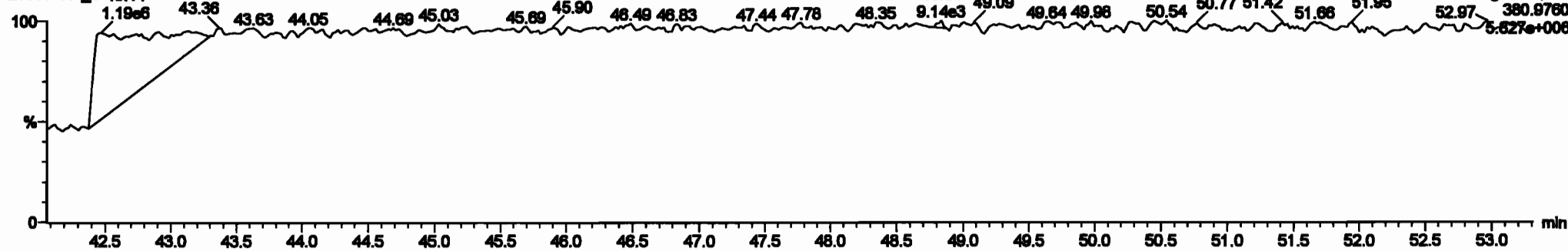


200601K1\_5



**PFK4c**

200601K1\_5



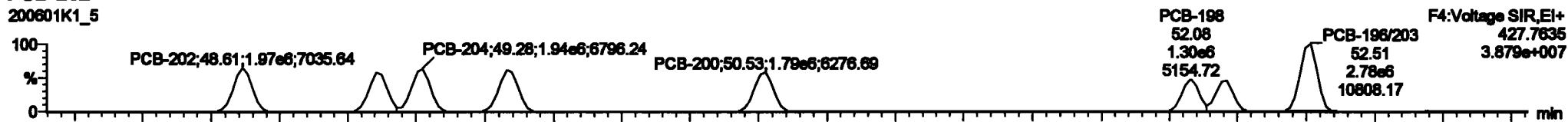
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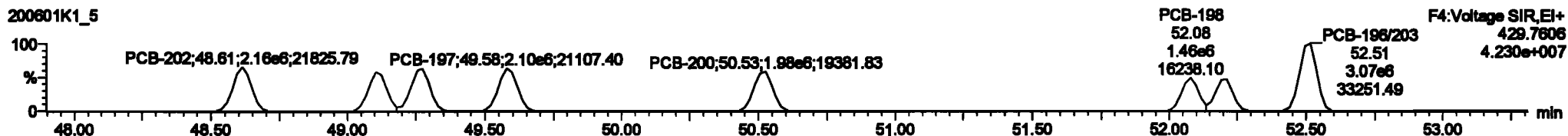
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**PCB-202**

200601K1\_5

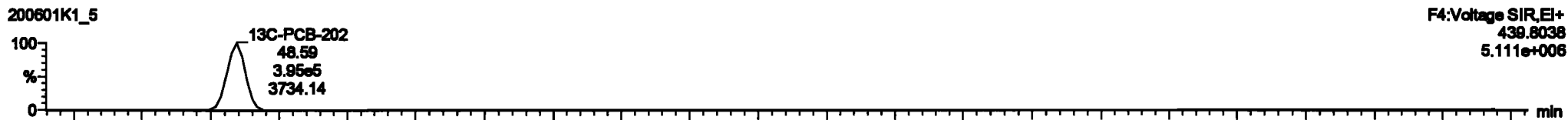


200601K1\_5

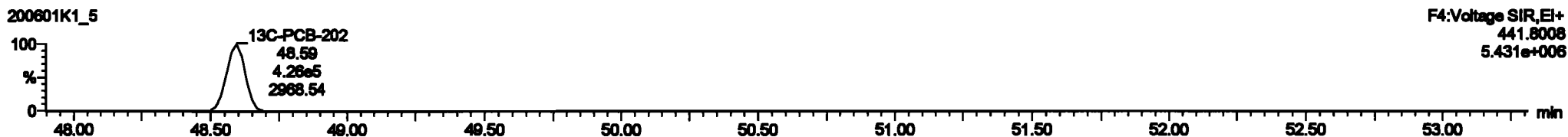


**13C-PCB-202**

200601K1\_5

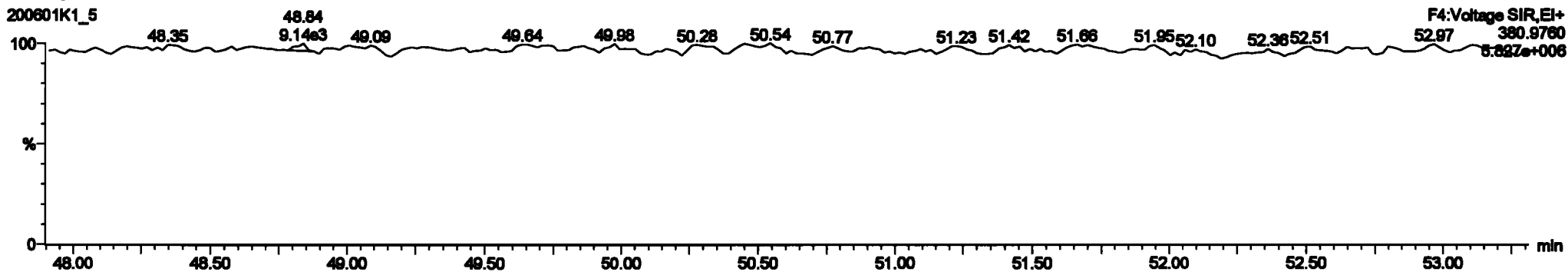


200601K1\_5



**PFK4d**

200601K1\_5



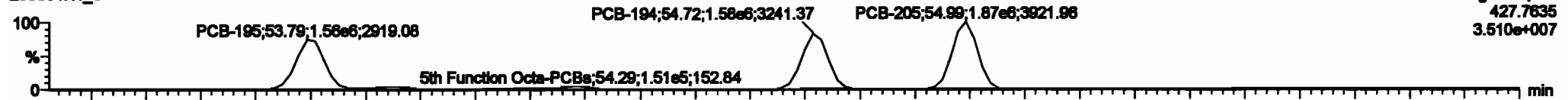
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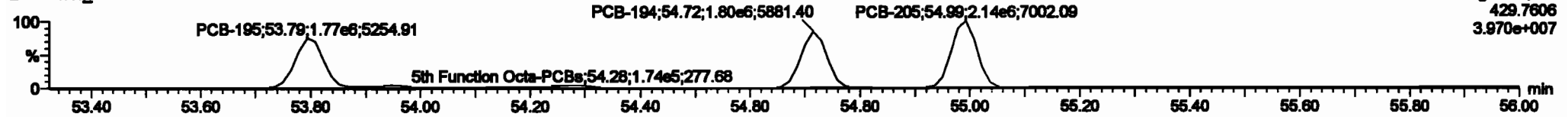
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**PCB-195**

200601K1\_5

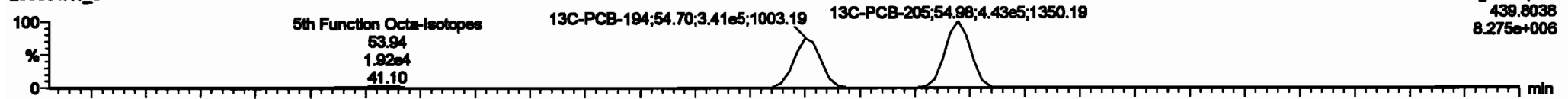


200601K1\_5

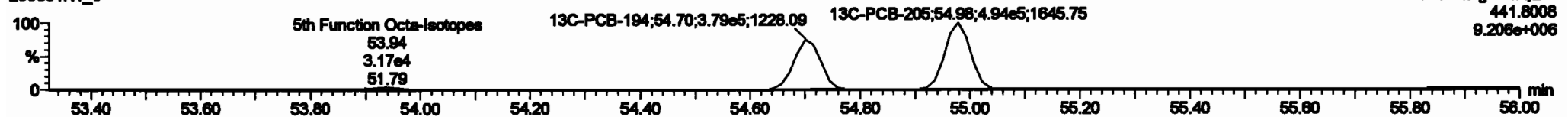


**13C-PCB-194**

200601K1\_5

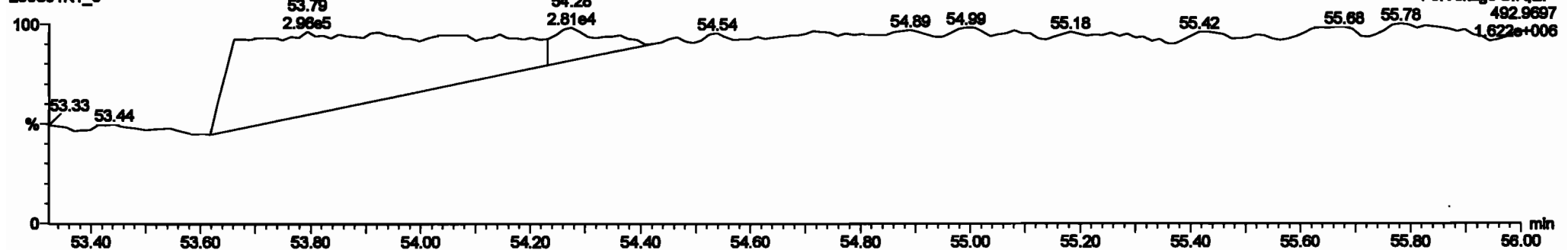


200601K1\_5



**PFK5a**

200601K1\_5

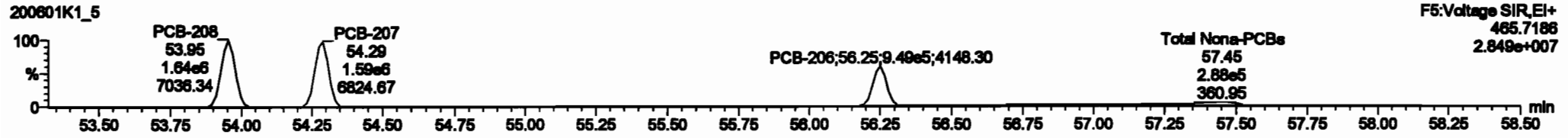
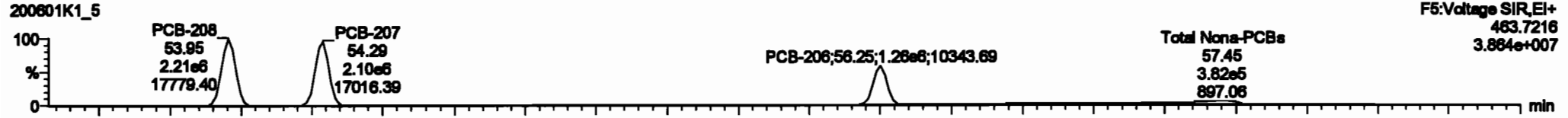


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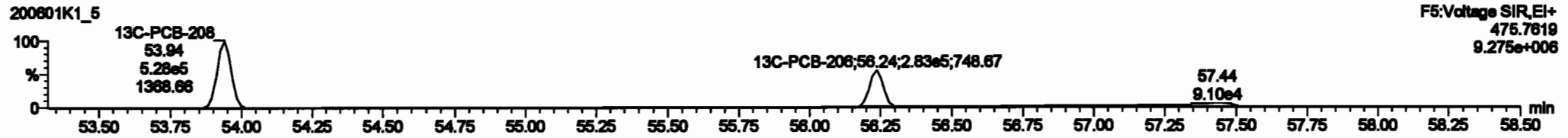
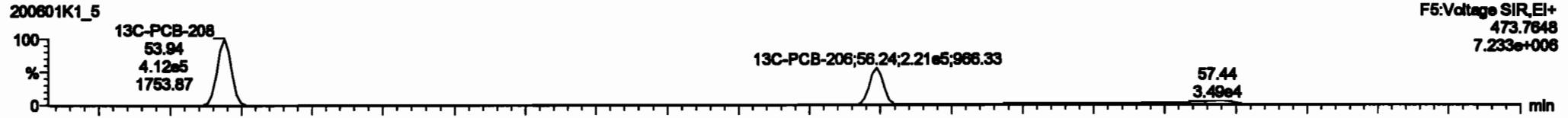
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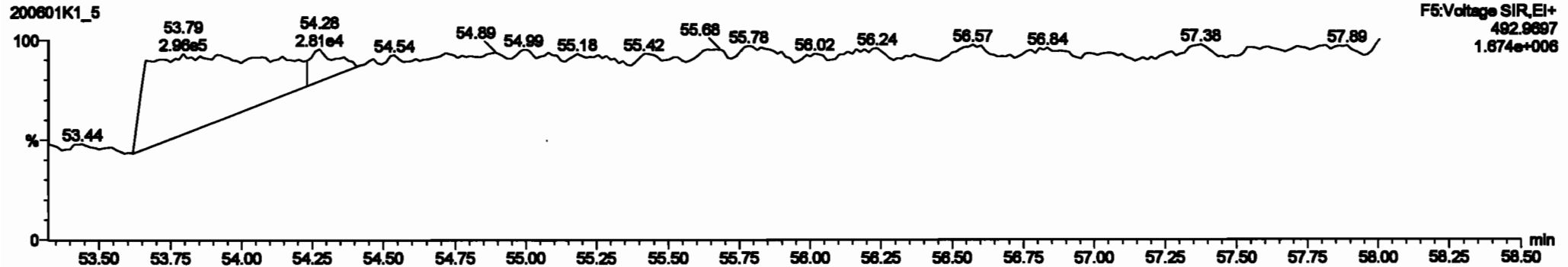
PCB-208



13C-PCB-208



PFK5



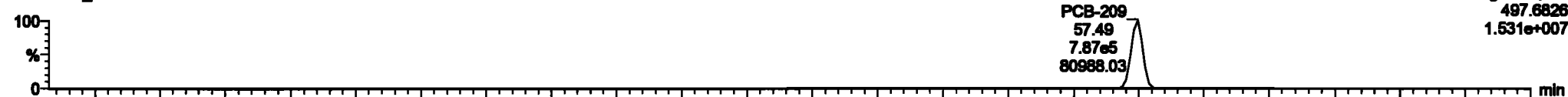
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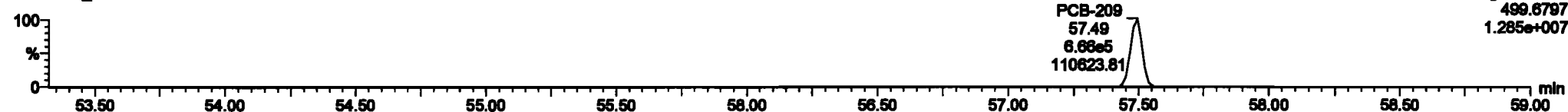
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**PCB-209**

200601K1\_5

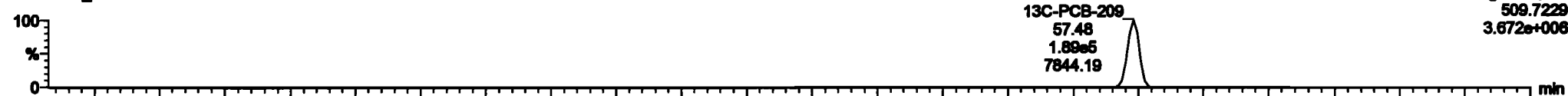


200601K1\_5

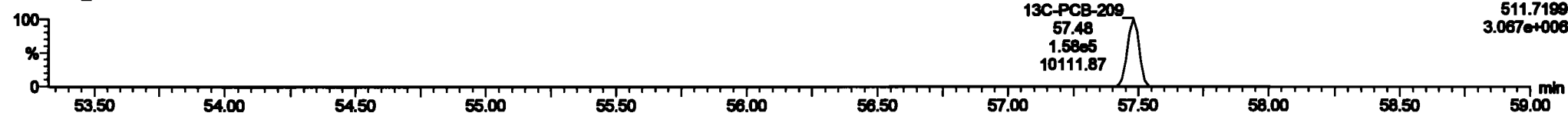


**13C-PCB-209**

200601K1\_5

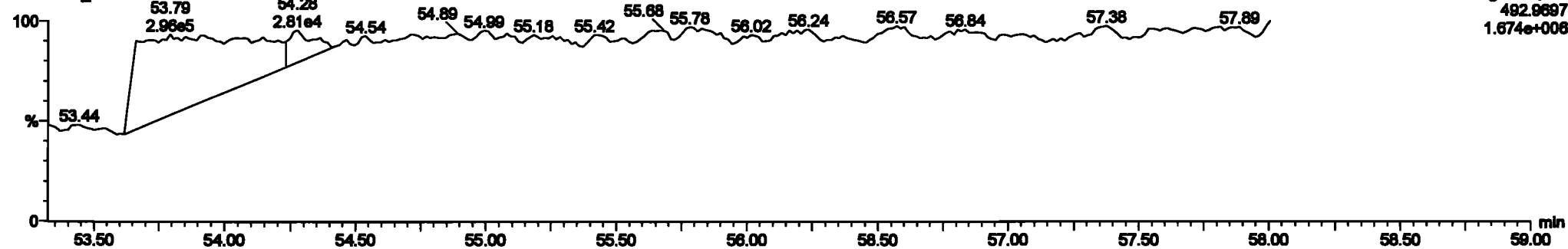


200601K1\_5



**PFK5b**

200601K1\_5



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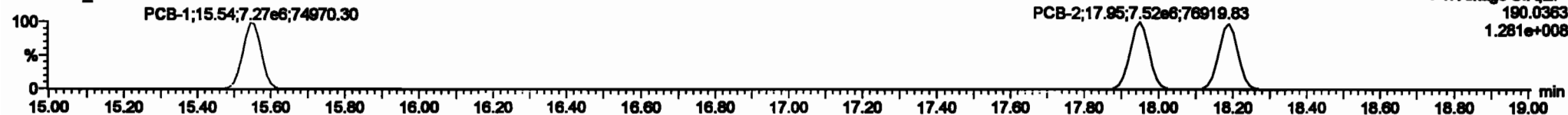
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**PCB-1**

200601K1\_6



200601K1\_6



**13C-PCB-1**

200601K1\_6

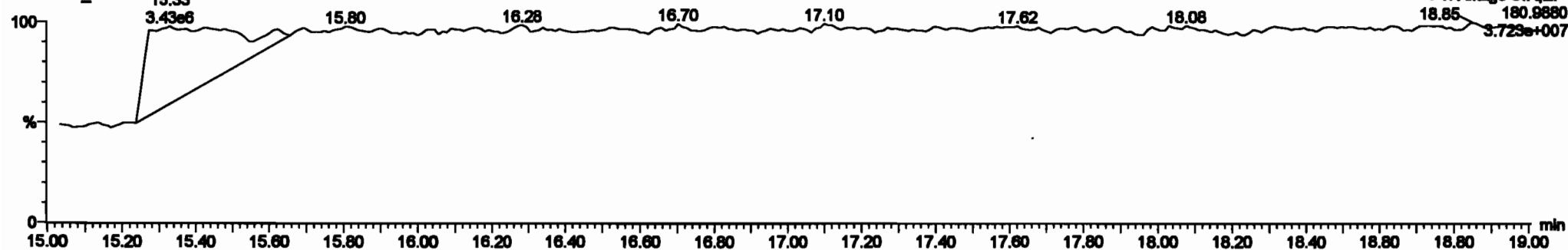


200601K1\_6



**PFK1**

200601K1\_6

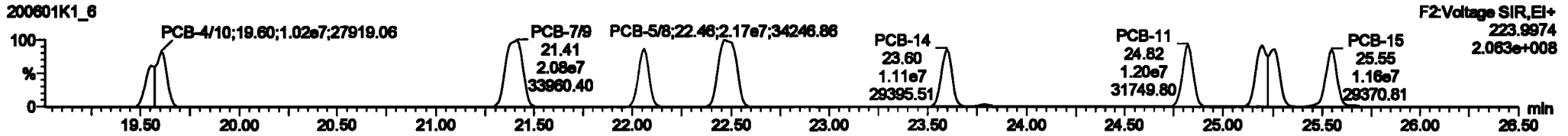
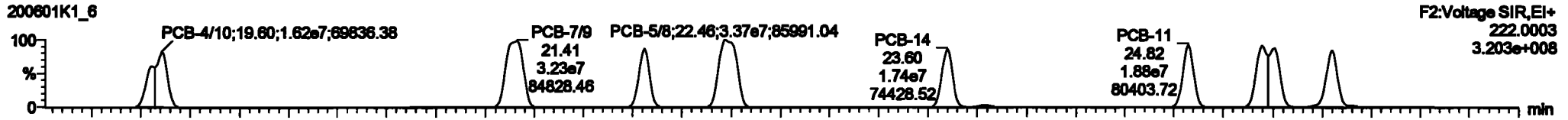


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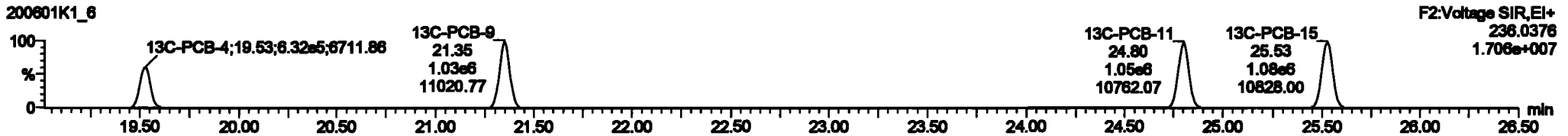
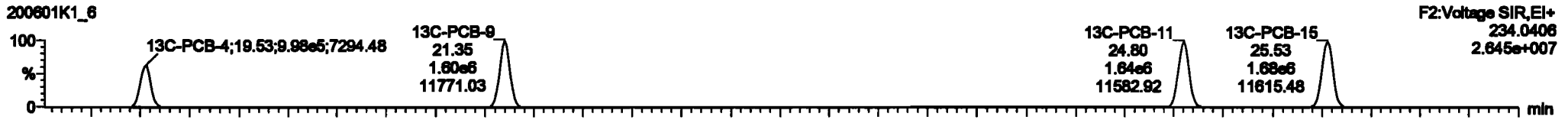
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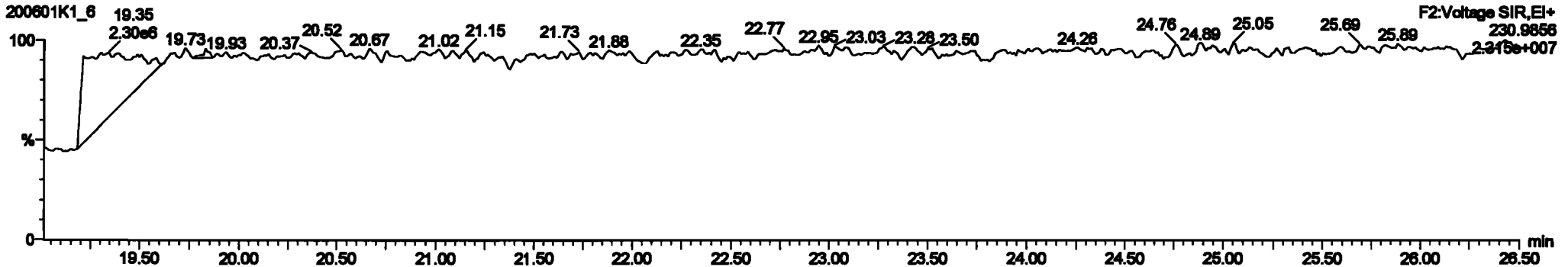
**PCB-4/10**



**13C-PCB-4**

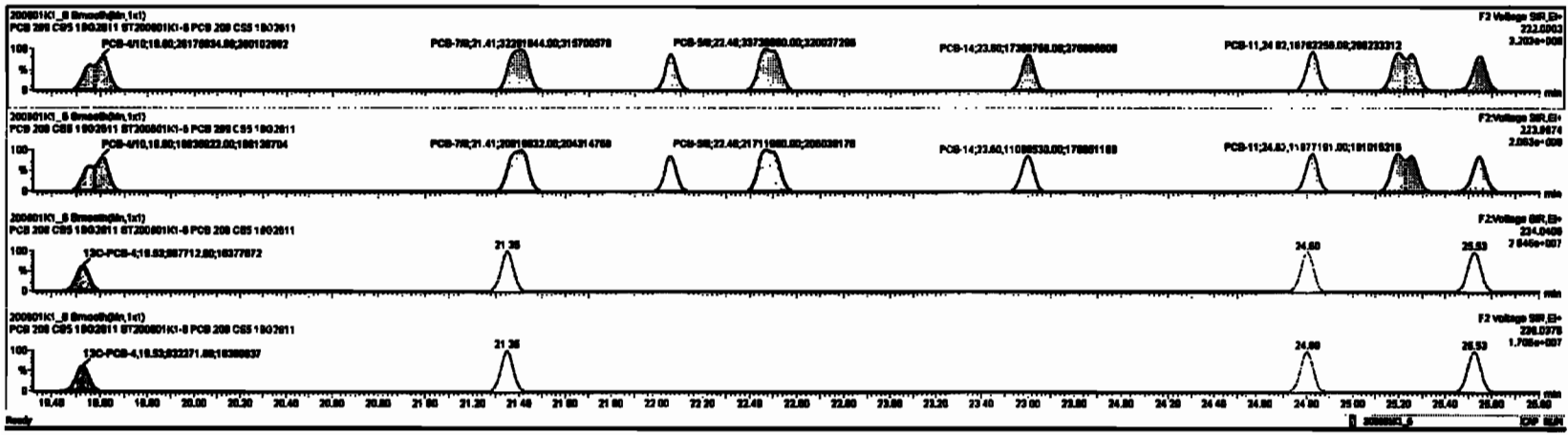


**PFK2a**



ID	Name	Comp	SN	Qty	Unit	Volts	PreDist	RT	PostDist	RT	PreDist	RT	PostDist	Comp	SN	DA	DFPC
226	12C-PCB-205	1.05e6	0.92	NO	1.0000	1.000	84.86	84.86	1.000	0.000	NO	100.0	100	0.120			
227	12C-PCB-79	2.05e6	0.79	NO	1.0000	1.000	37.76	37.76	1.000	1.000	NO	107.0	105	0.0000			
228	12C-PCB-478	7.70e6	0.48	NO	0.7000	1.000	48.00	48.00	0.000	0.000	NO	88.00	88.1	0.100			
229	12C-PCB-78	3.05e6	0.78	NO	1.0000	1.000	37.76	37.76	0.000	0.000	NO	88.00	88.0	0.0000			
230	12C-PCB-478	7.70e6	0.48	NO	1.0000	1.000	48.00	48.00	0.000	0.000	NO	84.00	84.4	0.0000			
231	Total Items-PCBs				1.0000	1.000	0.00	0.000			NO	3000		0.0000	3000		
232	2nd Parallel TN-PCBs				1.0000	1.000	0.00	0.000			NO	6204		0.120	6204		
233	3rd Parallel TN-PCBs				0.0000	1.000	0.00	0.000			NO	18910		0.000	18910		
234	Total Value-PCBs				1.0000	1.000	0.00	0.000			NO	43000		2.30	43000		
235	3rd Parallel Paralle-PCBs				1.0000	1.000	0.00	0.000			NO	43000		3.00	43000		
236	Total Parallel Paralle-PCBs				1.0000	1.000	0.00	0.000			NO	86000		5.30	86000		

ID	Name	PreDist	RT	Volts	Unit	Volts	PreDist	RT	PostDist	RT	PreDist	RT	PostDist	Comp	SN	DA	DFPC
0	PCB-488	18.81	18.80	2.810e7	1.880e7	1.880	1.88	NO	2114.3	2114.3							
1	PCB-788	21.41	21.41	3.280e7	3.280e7	1.880	1.88	NO	2108.4	2108.4							
2	PCB-8	22.08	22.08	1.710e7	1.710e7	1.880	1.88	NO	1048.8	1048.8							
3	PCB-58	22.48	22.48	3.370e7	3.370e7	1.880	1.88	NO	2120.8	2120.8							
4	PCB-14	23.81	23.80	1.120e7	1.120e7	1.880	1.87	NO	1001.1	1001.1							
5	PCB-11	24.80	24.80	1.880e7	1.880e7	1.880	1.87	NO	1018.7	1018.7							
6	PCB-1588	25.38	25.38	3.280e7	3.280e7	1.880	1.88	NO	2088.8	2088.8							
7	PCB-18	25.87	25.86	1.770e7	1.770e7	1.880	1.88	NO	1048.8	1048.8							



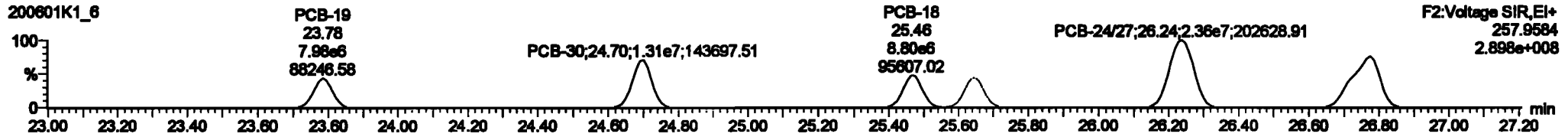


Dataset: Untitled

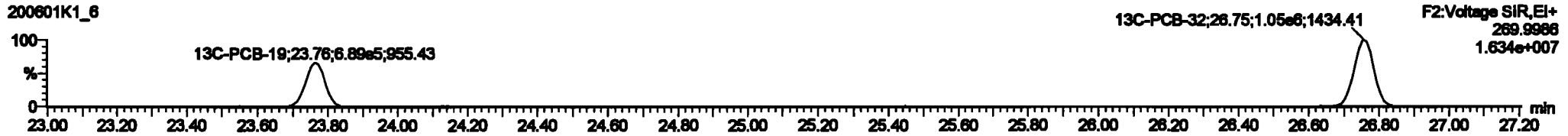
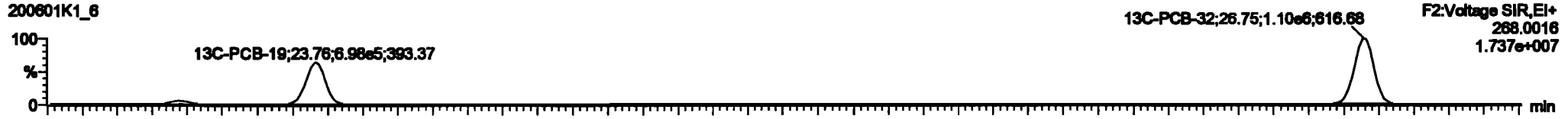
Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_6, Date: 01-Jun-2020, Time: 17:21:13, ID: ST200601K1-6 PCB 209 CS5 19G2611, Description: PCB 209 CS5 19G2611

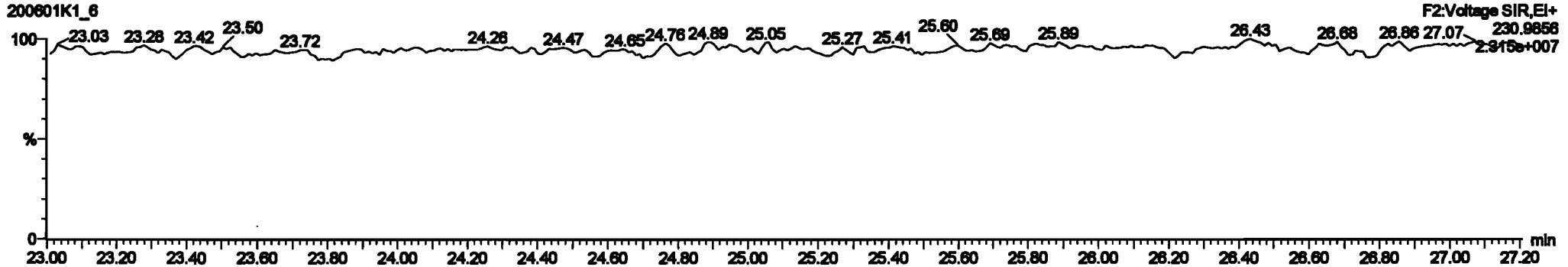
**PCB-19**



**13C-PCB-19**



**PFK2b**

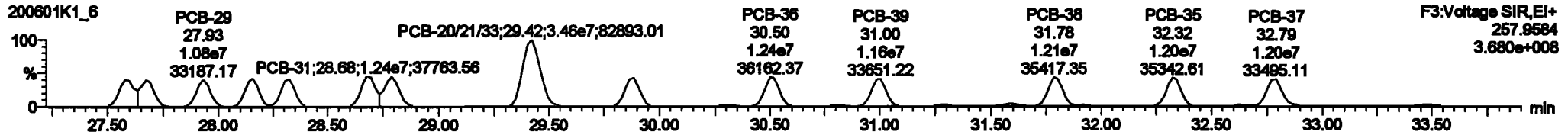
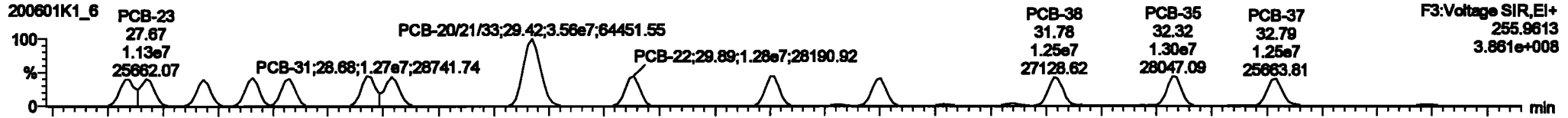


Dataset: Untitled

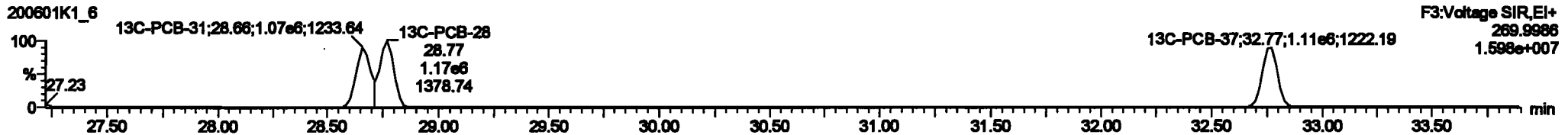
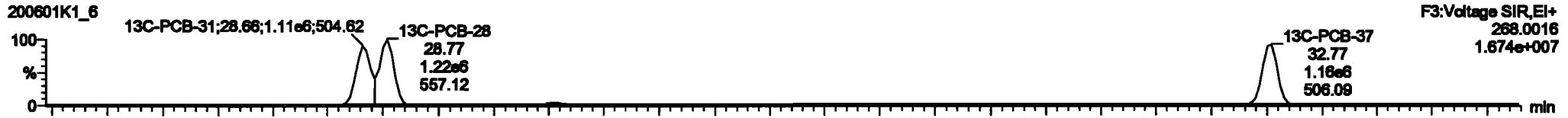
Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
 Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_6, Date: 01-Jun-2020, Time: 17:21:13, ID: ST200601K1-6 PCB 209 CS5 19G2611, Description: PCB 209 CS5 19G2611

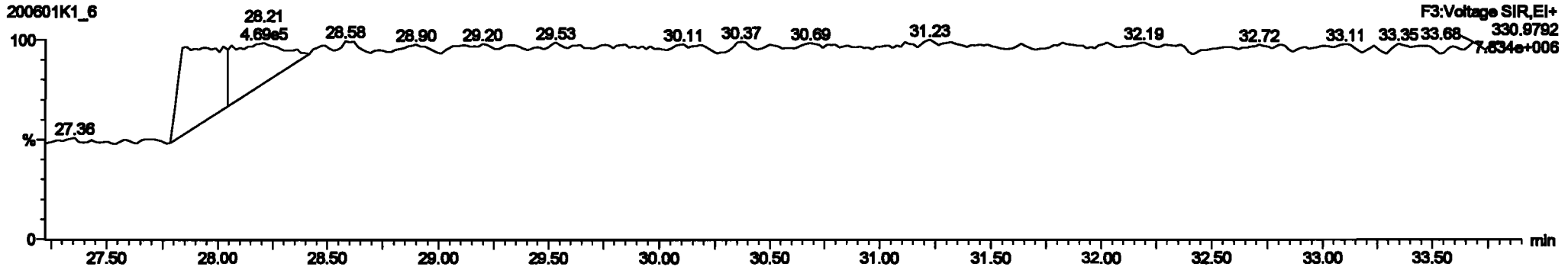
**PCB-34**



**13C-PCB-28**



**PFK3d**



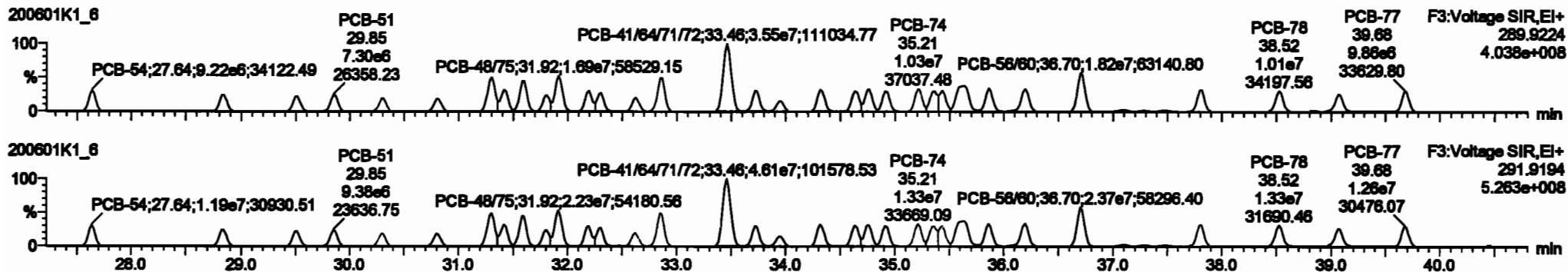


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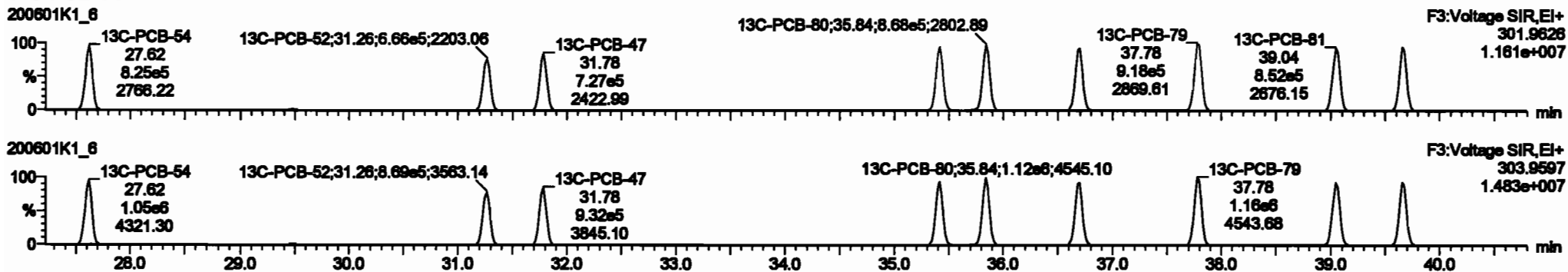
Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_6, Date: 01-Jun-2020, Time: 17:21:13, ID: ST200601K1-6 PCB 209 CS5 19G2611, Description: PCB 209 CS5 19G2611

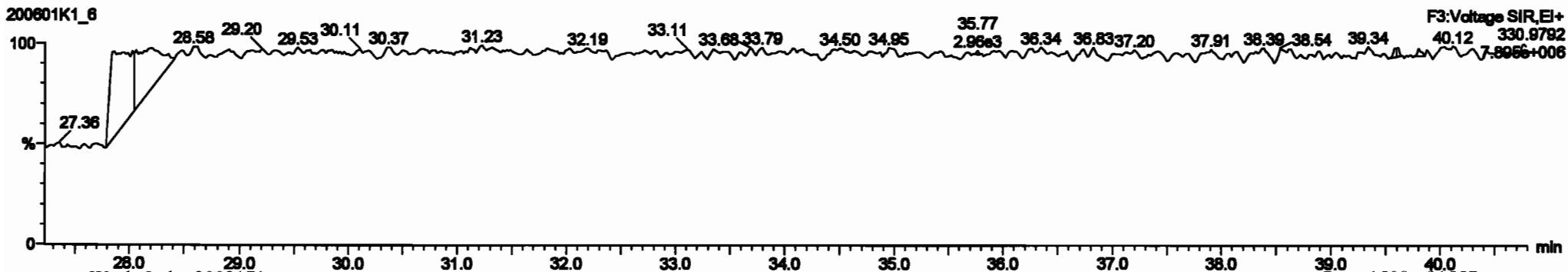
**PCB-54**



**13C-PCB-54**



**PFK3a**



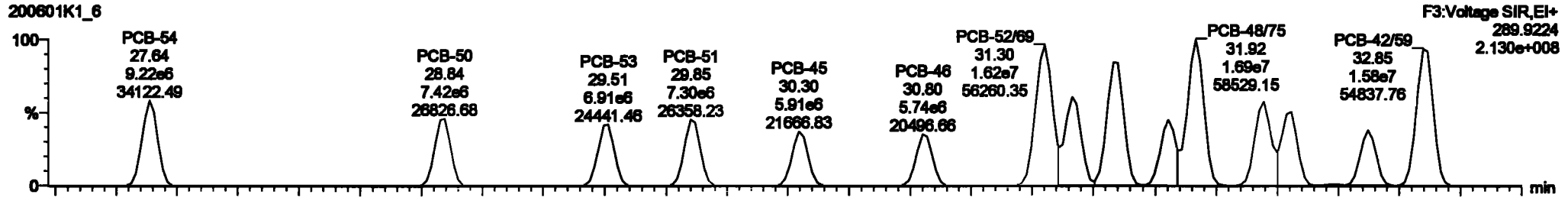
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

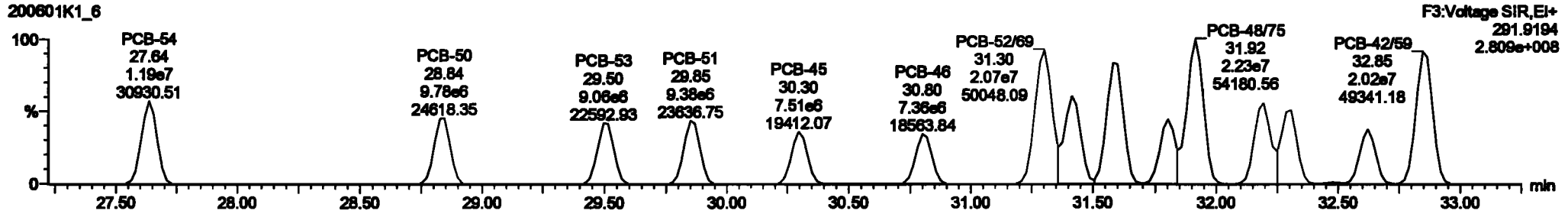
Name: 200601K1\_6, Date: 01-Jun-2020, Time: 17:21:13, ID: ST200601K1-6 PCB 209 CS5 19G2611, Description: PCB 209 CS5 19G2611

PCB-50

200601K1\_6

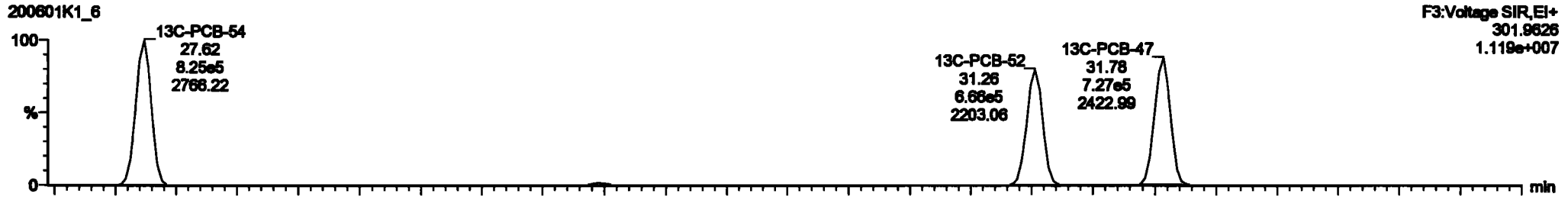


200601K1\_6



13C-PCB-52

200601K1\_6



200601K1\_6



Dataset: Untitled

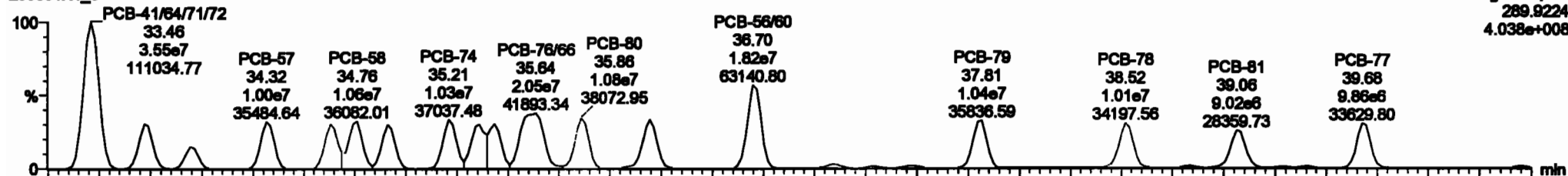
Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_6, Date: 01-Jun-2020, Time: 17:21:13, ID: ST200601K1-6 PCB 209 CS5 19G2611, Description: PCB 209 CS5 19G2611

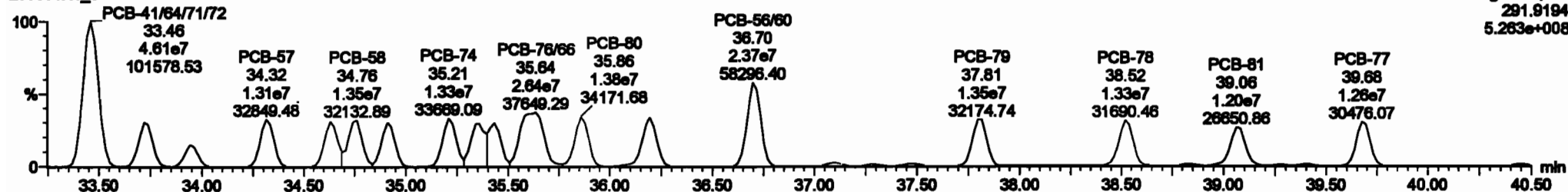
PCB-68

200601K1\_6



F3:Voltage SIR,EI+  
289.9224  
4.038e+008

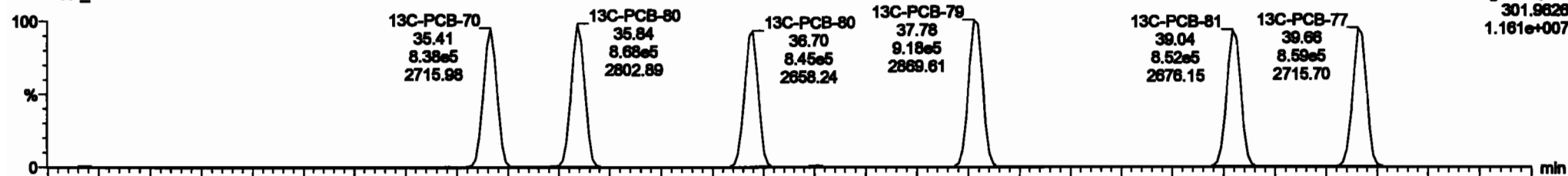
200601K1\_6



F3:Voltage SIR,EI+  
291.9194  
5.263e+008

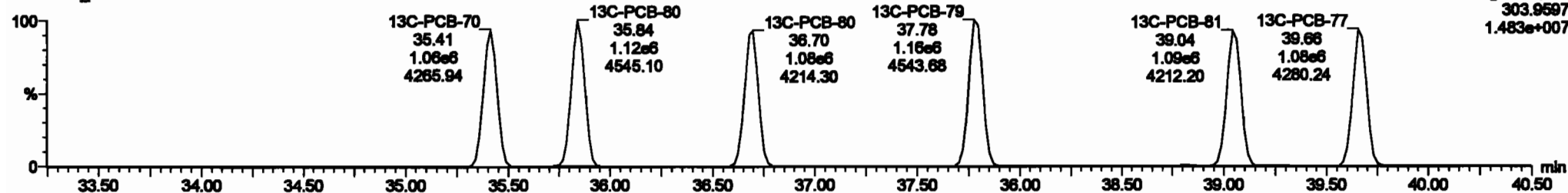
13C-PCB-60

200601K1\_6

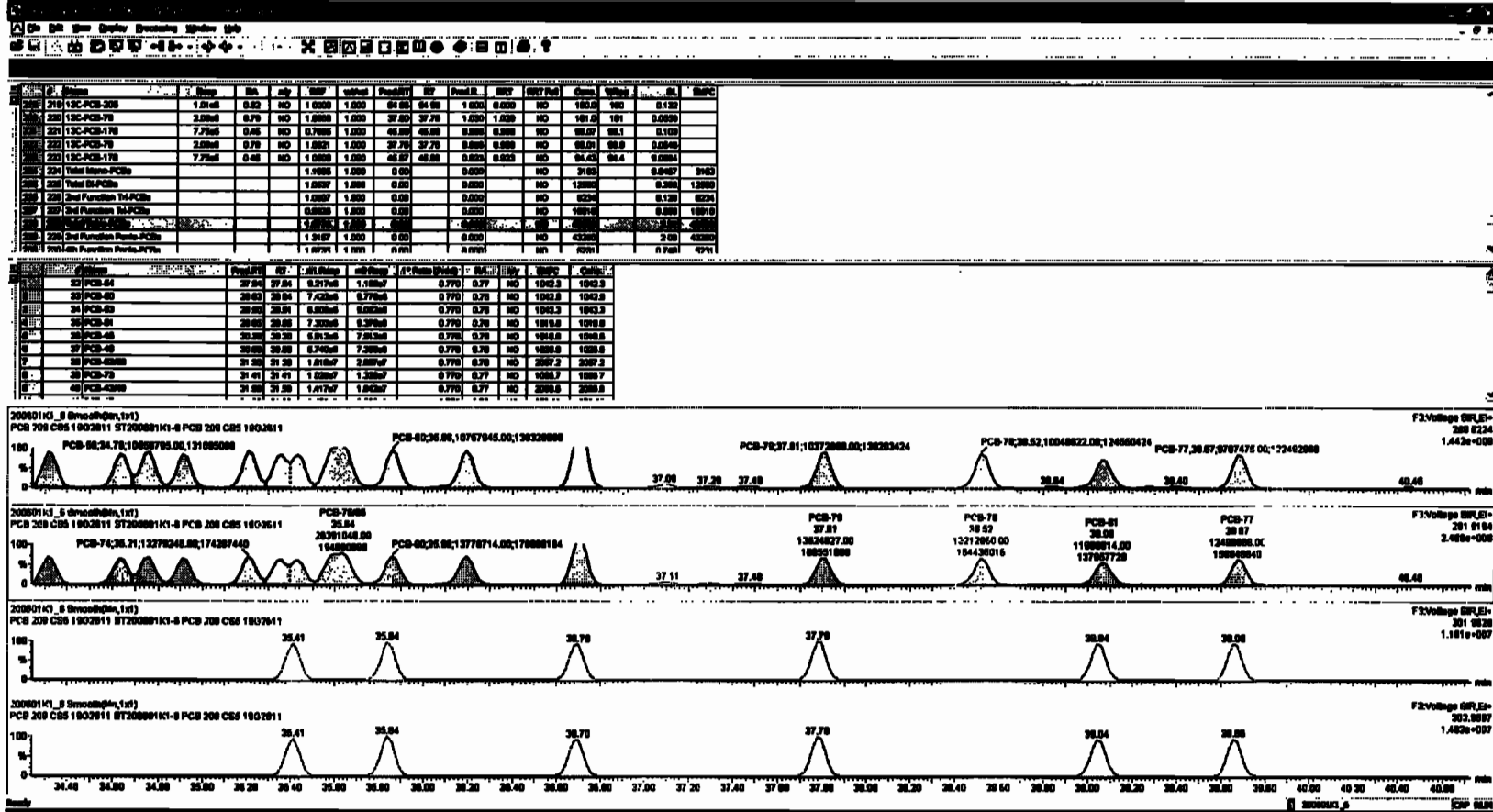


F3:Voltage SIR,EI+  
301.9628  
1.161e+007

200601K1\_6



F3:Voltage SIR,EI+  
303.9597  
1.483e+007

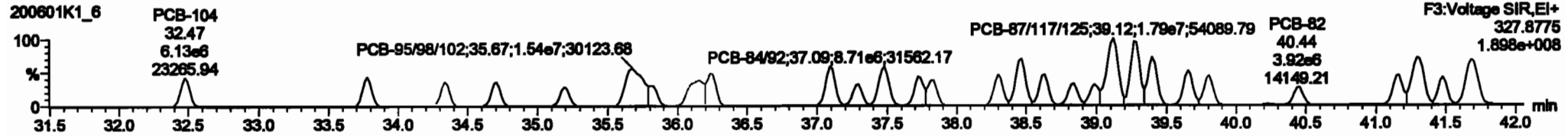
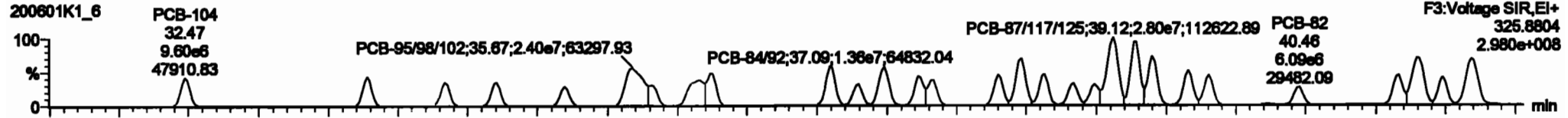


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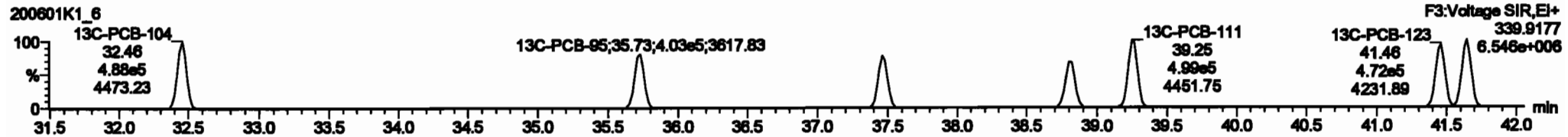
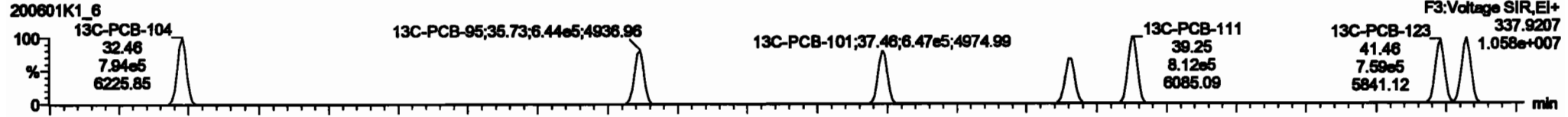
Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
 Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_6, Date: 01-Jun-2020, Time: 17:21:13, ID: ST200601K1-6 PCB 209 CS5 19G2611, Description: PCB 209 CS5 19G2611

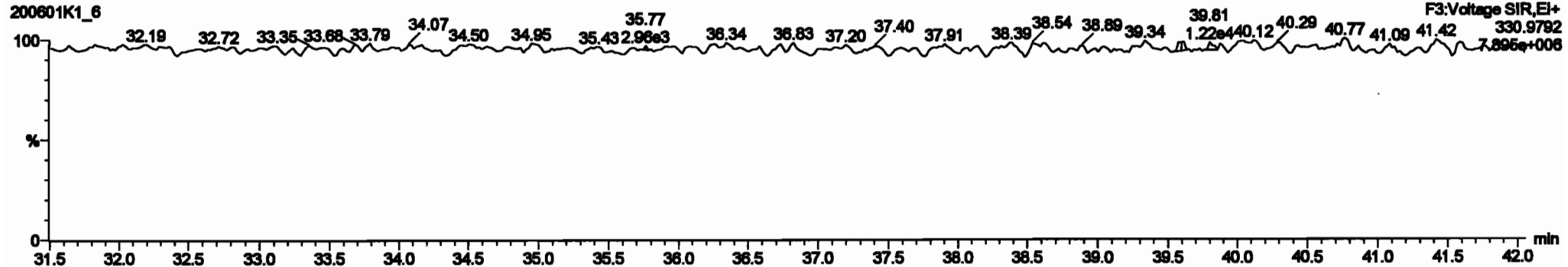
**PCB-104**



**13C-PCB-104**



**PFK3b**





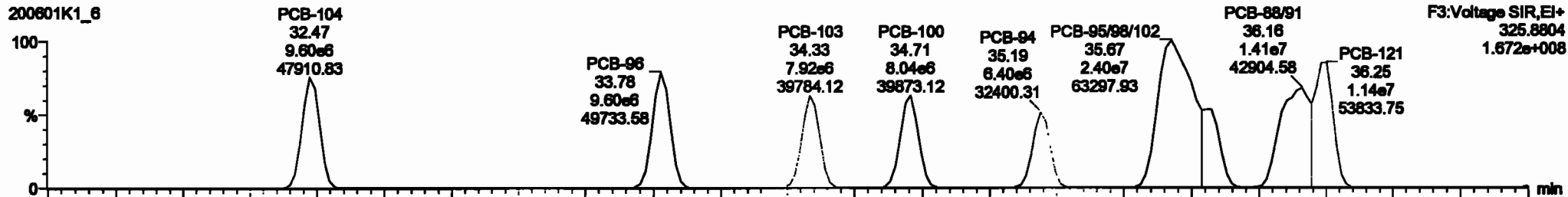
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

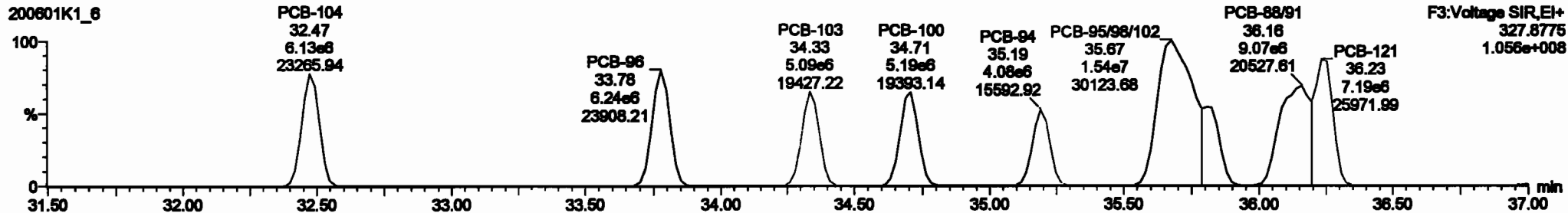
Name: 200601K1\_6, Date: 01-Jun-2020, Time: 17:21:13, ID: ST200601K1-6 PCB 209 CS5 19G2611, Description: PCB 209 CS5 19G2611

**PCB-96**

200601K1\_6

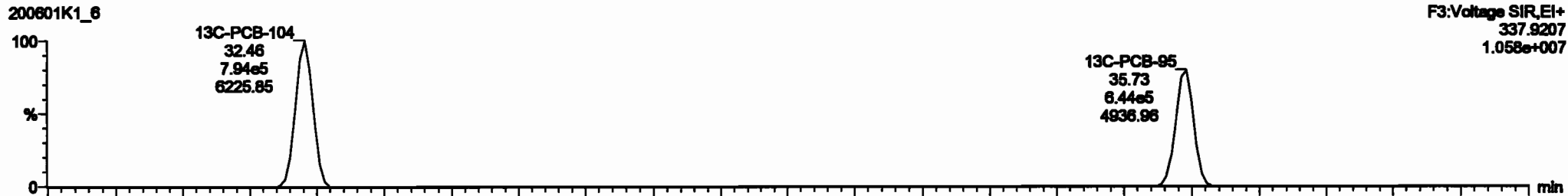


200601K1\_6

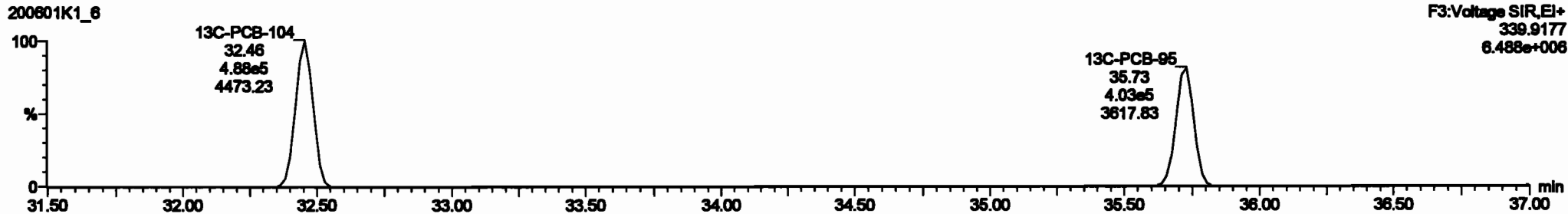


**13C-PCB-95**

200601K1\_6



200601K1\_6



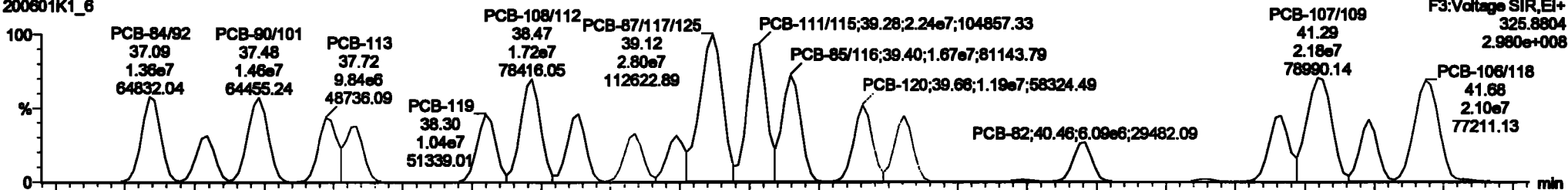
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

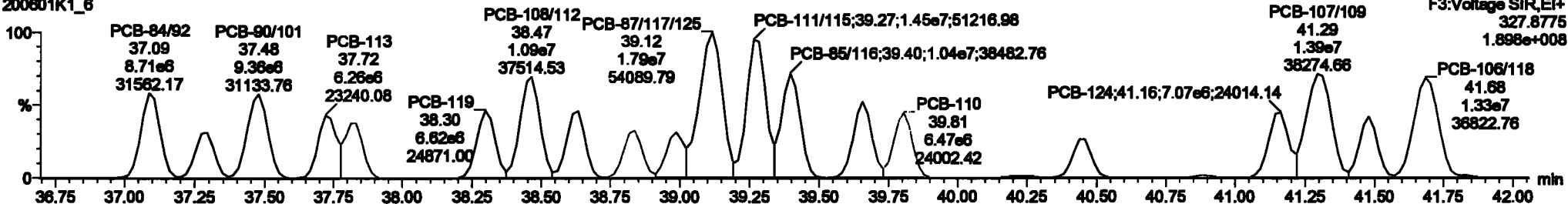
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PCB-119

200601K1\_6

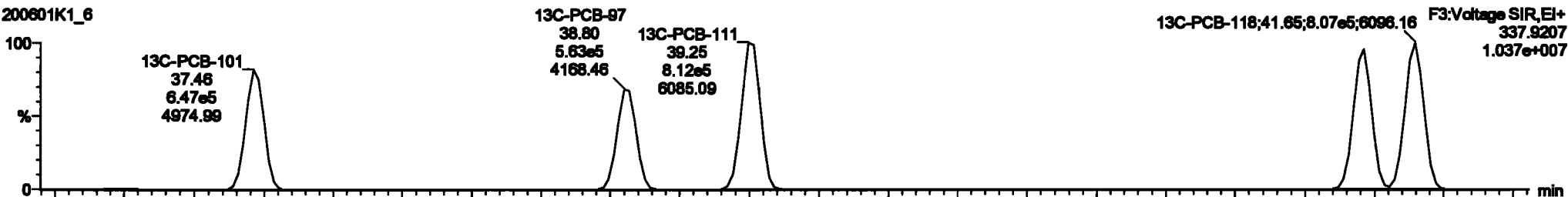


200601K1\_6

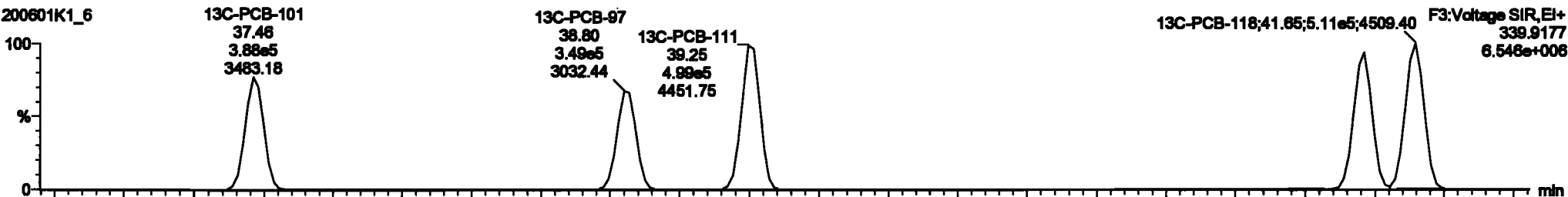


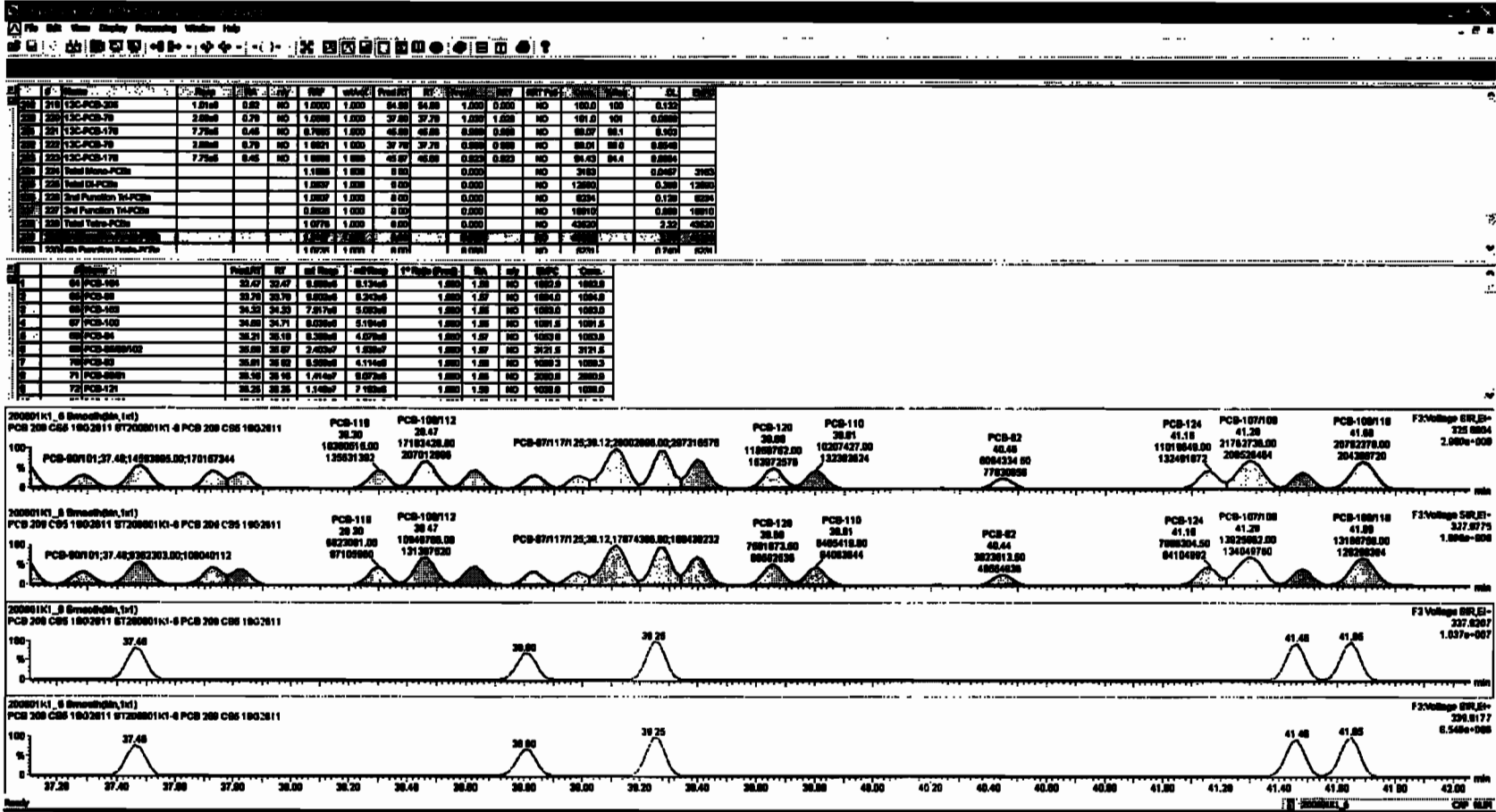
13C-PCB-111

200601K1\_6



200601K1\_6



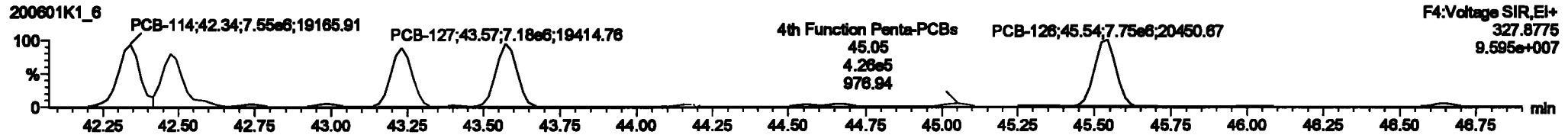
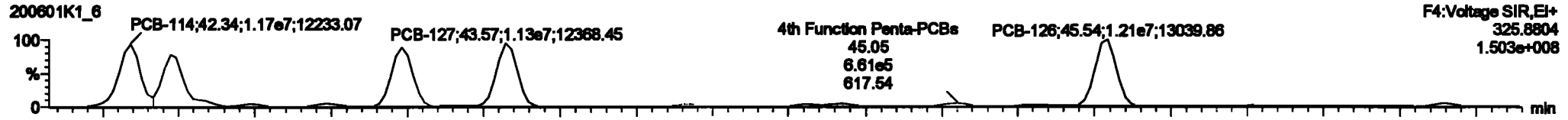


Dataset: Untitled

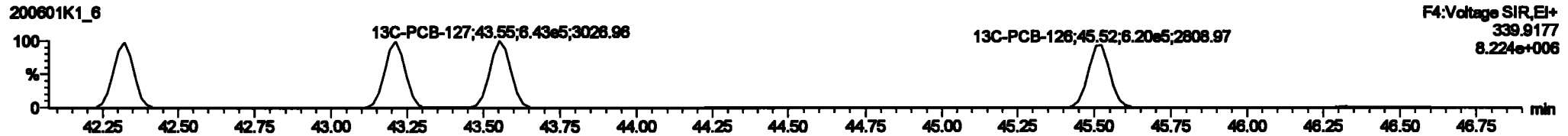
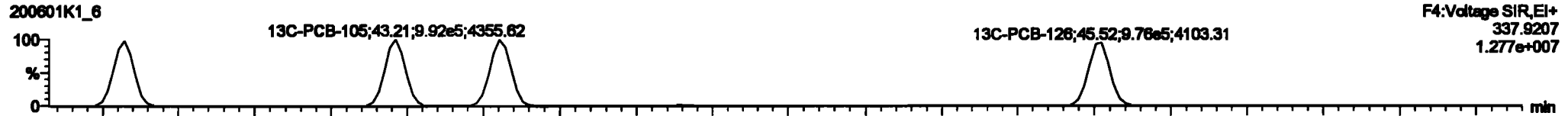
Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_6, Date: 01-Jun-2020, Time: 17:21:13, ID: ST200601K1-6 PCB 209 CS5 19G2611, Description: PCB 209 CS5 19G2611

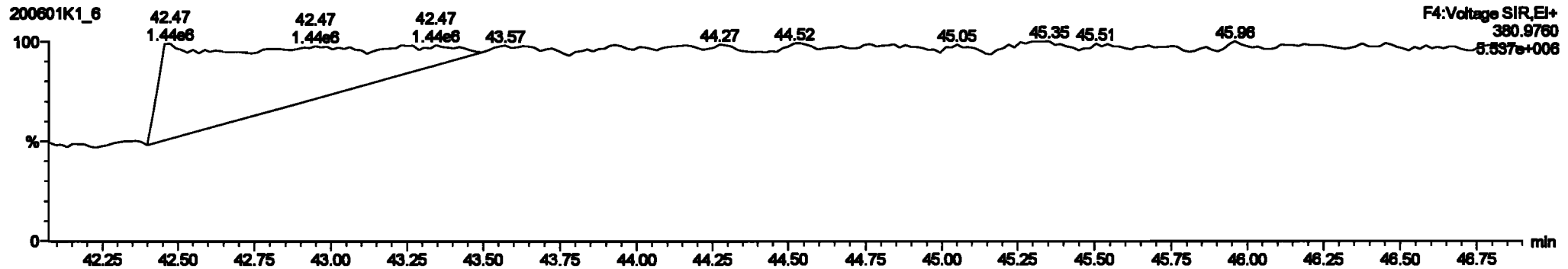
**PCB-114**

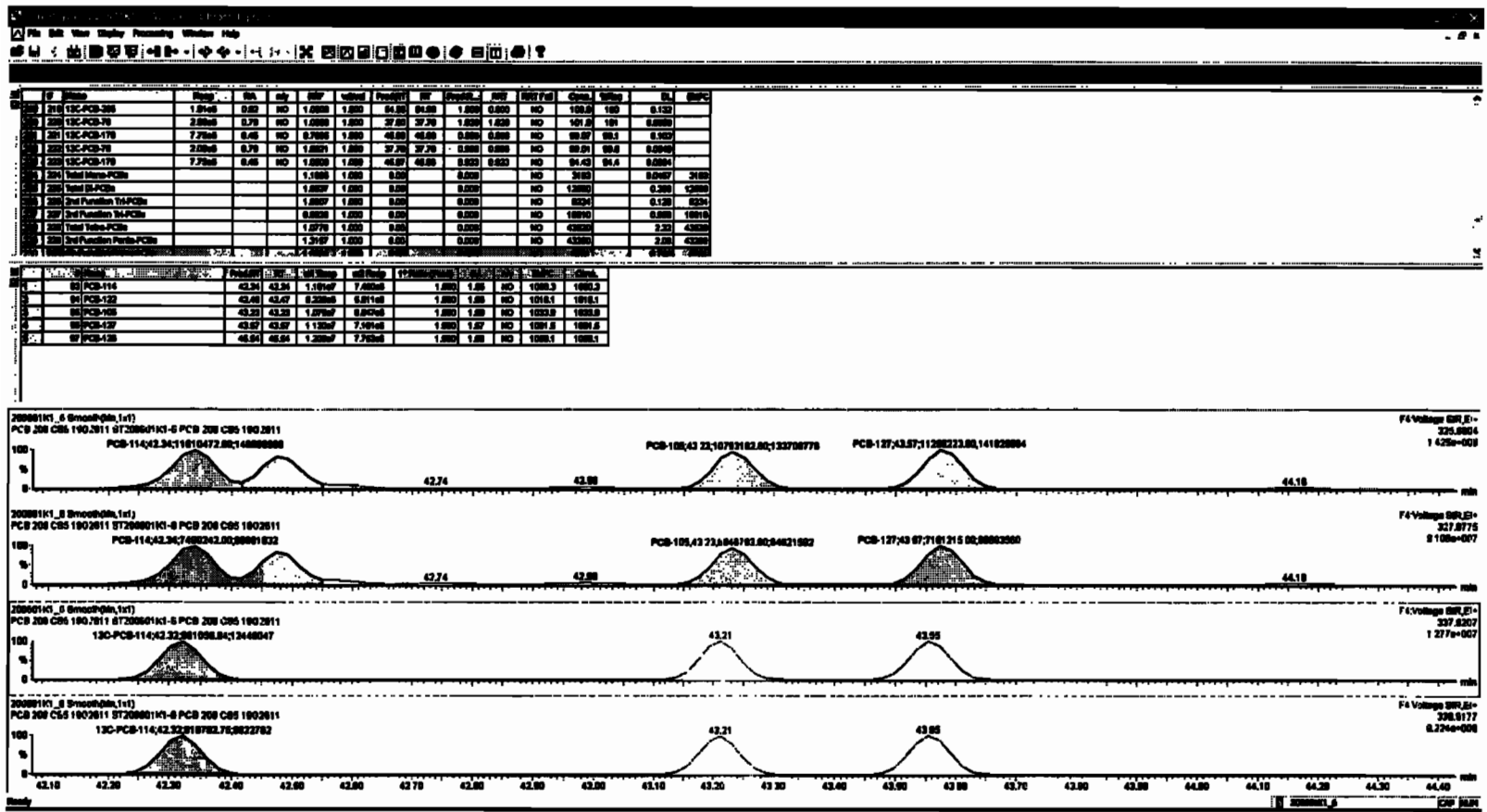


**13C-PCB-114**



**PFK4a**





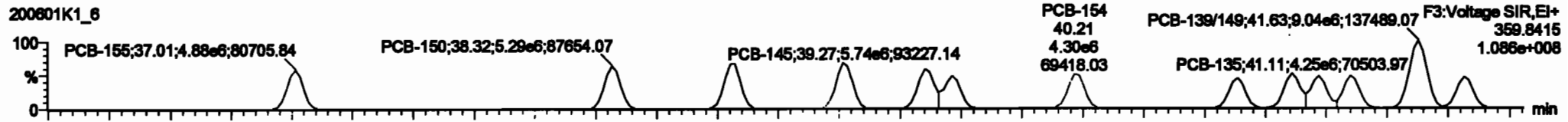
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

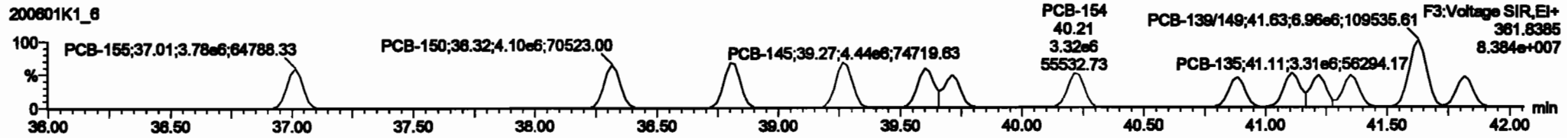
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PCB-155

200601K1\_6

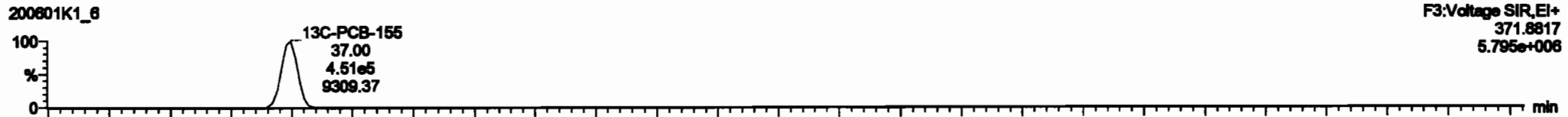


200601K1\_6

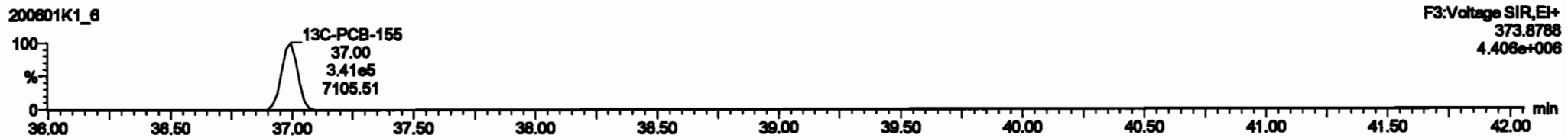


13C-PCB-155

200601K1\_6

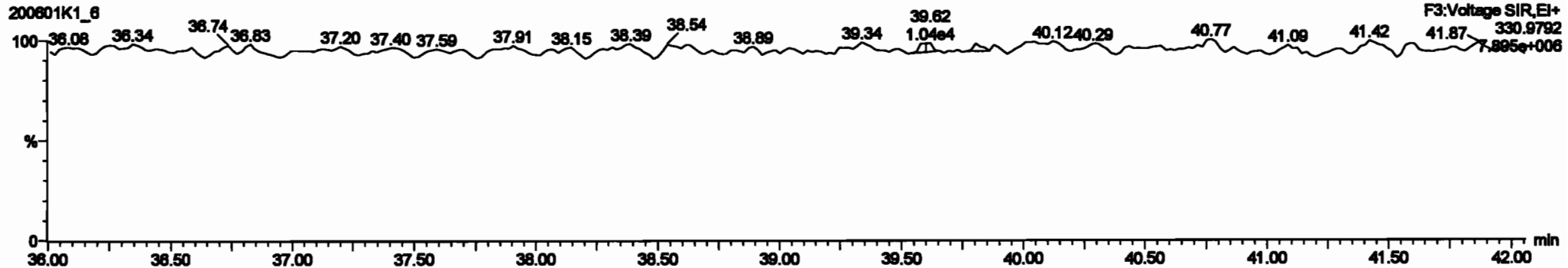


200601K1\_6



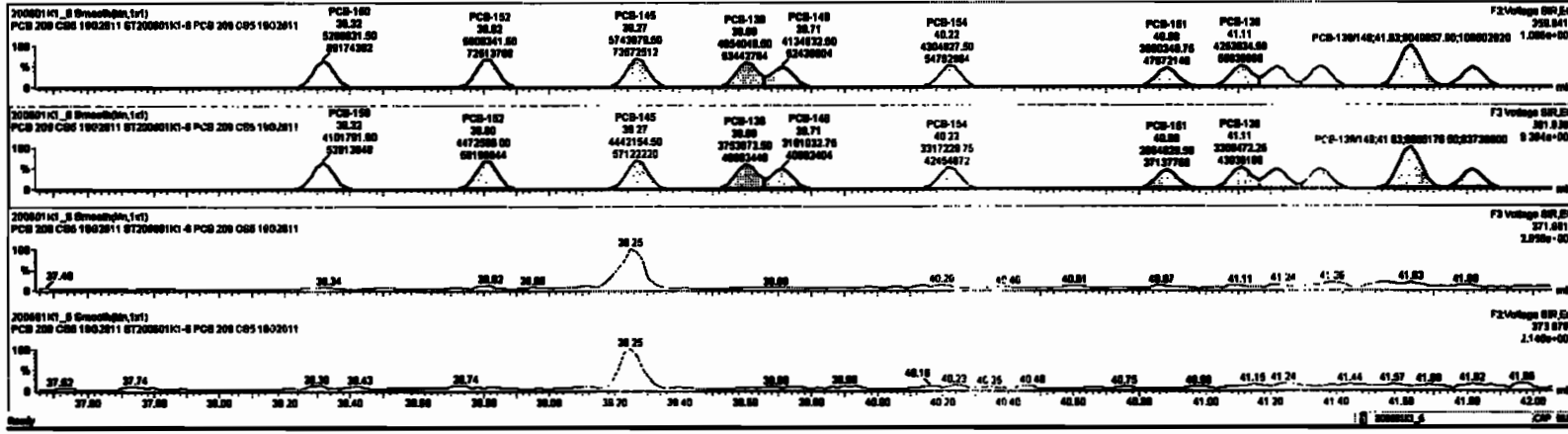
PFK3c

200601K1\_6



#	Name	Step	Time	Qty	WIP	WIP	WIP	WIP	WIP	WIP	WIP	WIP	WIP	WIP	WIP	WIP	WIP	WIP
1	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
2	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
3	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
4	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
5	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
6	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
7	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
8	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
9	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
10	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
11	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
12	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
13	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
14	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
15	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
16	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
17	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
18	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
19	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
20	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
21	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
22	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
23	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
24	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
25	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
26	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
27	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
28	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
29	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
30	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
31	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
32	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
33	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
34	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
35	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
36	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
37	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
38	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
39	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
40	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
41	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
42	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
43	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
44	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
45	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
46	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
47	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
48	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
49	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						
50	2200 4th Function Home-PCBs				1.0000	1.0000	0.00	0.0000	NO	20770	0.00	20770						

Step	Product	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
1	PCB-150	37.00	37.00	4.0000	3.7700	1.2000	1.20	NO	1004.8	1004.8								
2	PCB-150	38.00	38.00	5.0000	4.9200	1.2000	1.20	NO	1004.7	1004.7								
3	PCB-150	39.00	39.00	6.0000	4.8700	1.2000	1.20	NO	1004.3	1004.3								
4	PCB-150	40.00	40.00	7.0000	4.8200	1.2000	1.20	NO	1004.3	1004.3								
5	PCB-150	41.00	41.00	8.0000	4.7700	1.2000	1.20	NO	1004.8	1004.8								
6	PCB-150	42.00	42.00	9.0000	4.7200	1.2000	1.20	NO	1004.7	1004.7								
7	PCB-150	43.00	43.00	10.0000	4.6700	1.2000	1.20	NO	1004.7	1004.7								
8	PCB-150	44.00	44.00	11.0000	4.6200	1.2000	1.20	NO	1004.8	1004.8								
9	PCB-150	45.00	45.00	12.0000	4.5700	1.2000	1.20	NO	1004.3	1004.3								
10	PCB-150	46.00	46.00	13.0000	4.5200	1.2000	1.20	NO	1004.3	1004.3								
11	PCB-150	47.00	47.00	14.0000	4.4700	1.2000	1.20	NO	1004.8	1004.8								
12	PCB-150	48.00	48.00	15.0000	4.4200	1.2000	1.20	NO	1004.7	1004.7								
13	PCB-150	49.00	49.00	16.0000	4.3700	1.2000	1.20	NO	1004.7	1004.7								
14	PCB-150	50.00	50.00	17.0000	4.3200	1.2000	1.20	NO	1004.8	1004.8								

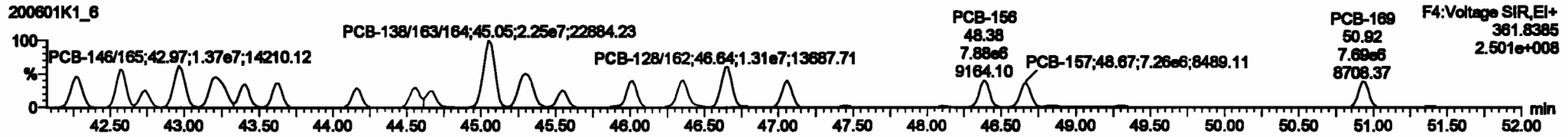
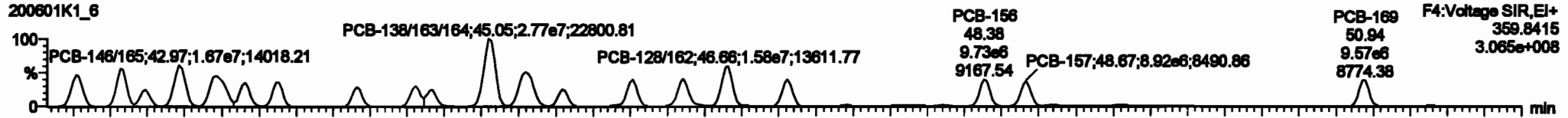


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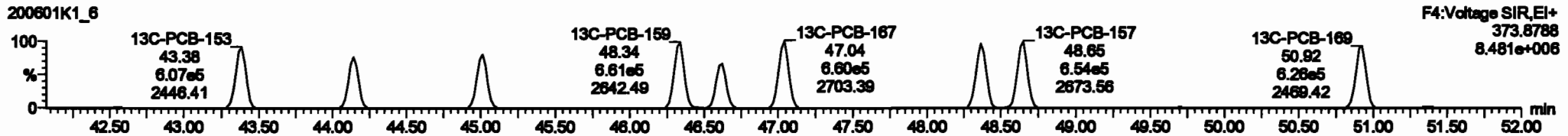
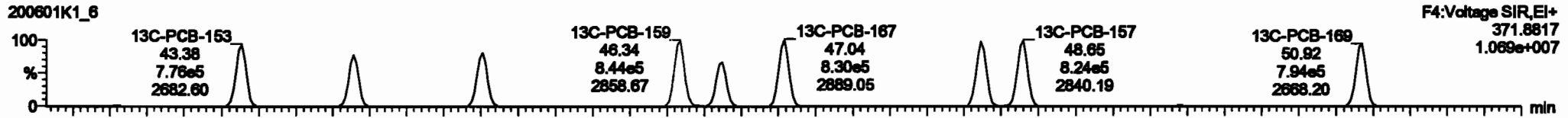
Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_6, Date: 01-Jun-2020, Time: 17:21:13, ID: ST200601K1-6 PCB 209 CS5 19G2611, Description: PCB 209 CS5 19G2611

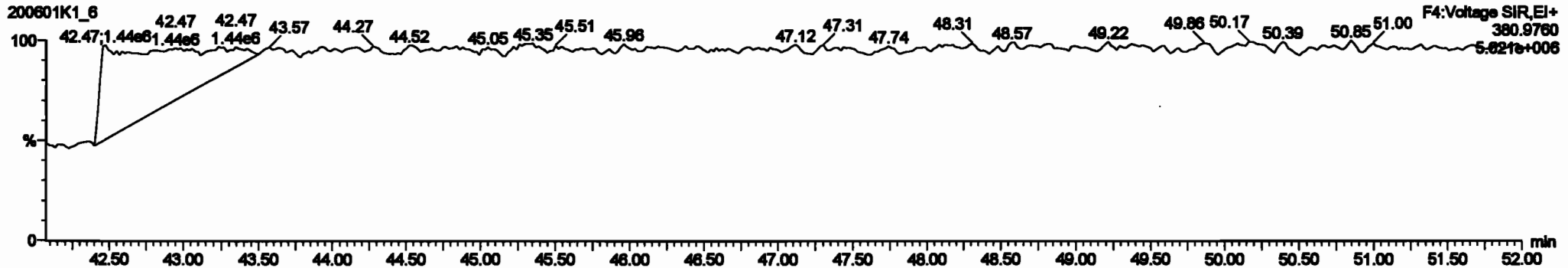
PCB-134/143



13C-PCB-153



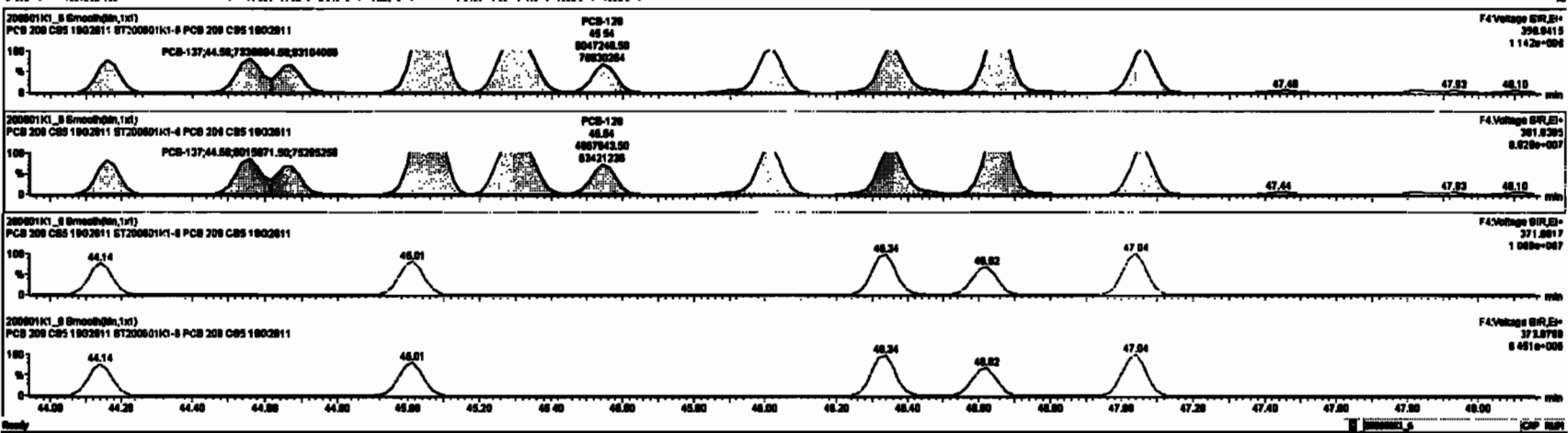
PFK4b





#	PCB	Step	RA	dy	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF
228	2nd Function Home-PCBs		0.0000	1.000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
229	Total Home-PCBs		1.0000	1.000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
230	Total Home-PCBs		1.0000	1.000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
231	2nd Function Tru-Adjusters		0.0000	1.000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000
232	Total Tru-Adjusters		0.0000	1.000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.0000

#	PCB	Step	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF
111	PCB-137R-03	42.20	42.20	1.277e7	1.020e7	1.240	1.24	NO	2100.0	2100.0								
112	PCB-137R-03	42.80	42.87	1.277e7	1.110e7	1.240	1.20	NO	2100.0	2100.0								
113	PCB-142	42.74	42.74	8.801e6	4.820e6	1.240	1.21	NO	1047.0	1047.0								
114	PCB-140H-05	42.99	42.97	1.200e7	1.271e7	1.240	1.20	NO	2101.1	2101.1								
115	PCB-139H-01	43.20	43.21	1.872e7	1.240e7	1.240	1.24	NO	2120.4	2120.4								
116	PCB-140	43.40	43.40	8.801e6	7.800e6	1.240	1.24	NO	1050.4	1050.4								
117	PCB-140	43.60	43.63	8.877e6	7.213e6	1.240	1.20	NO	1070.7	1070.7								
118	PCB-141	44.10	44.10	8.780e6	6.401e6	1.240	1.24	NO	1082.7	1082.7								
119	PCB-137	44.50	44.50	7.230e6	8.010e6	1.240	1.20	NO	1050.0	1050.0								



Dataset: Untitled

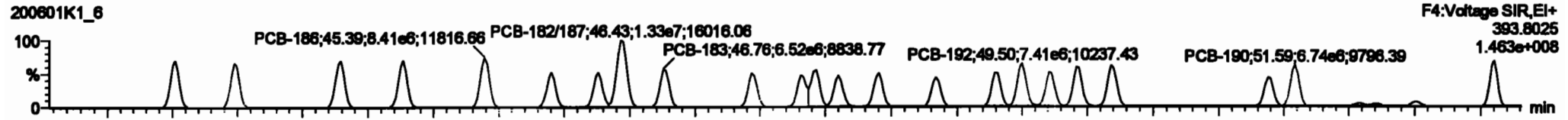
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

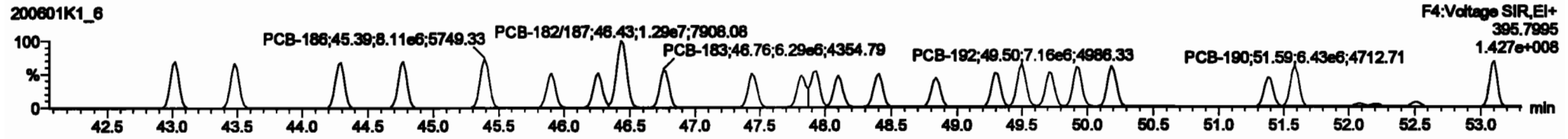
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**PCB-188**

200601K1\_6

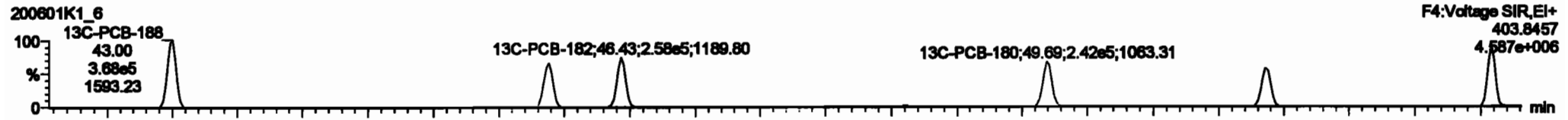


200601K1\_6

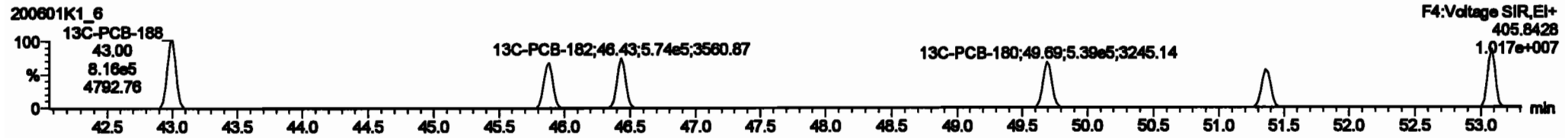


**13C-PCB-188**

200601K1\_6

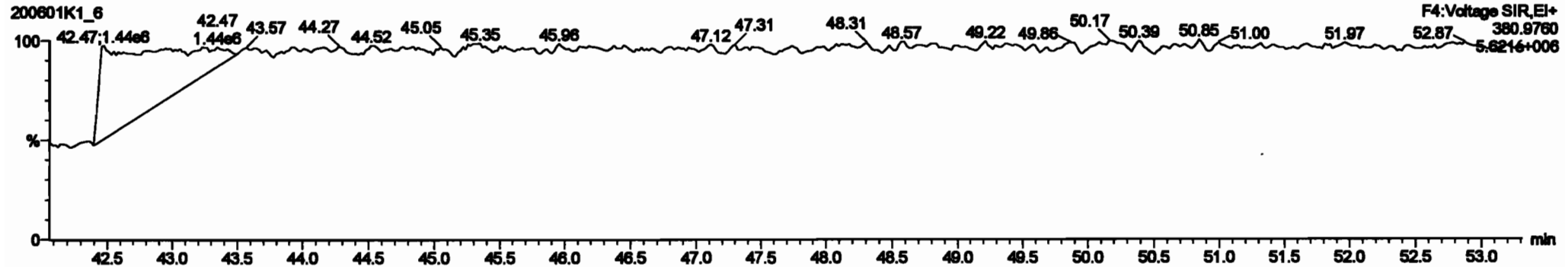


200601K1\_6



**PFK4c**

200601K1\_6



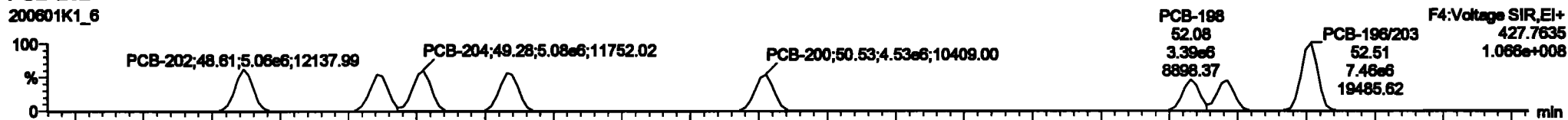
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

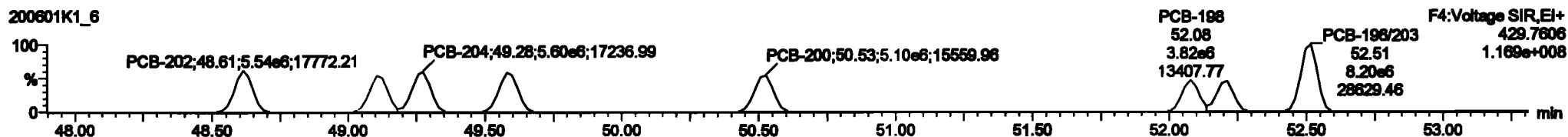
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**PCB-202**

200601K1\_6

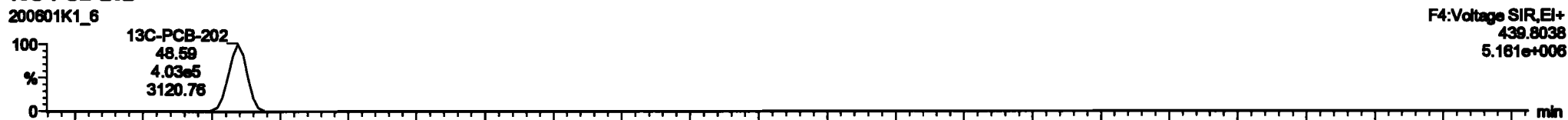


200601K1\_6

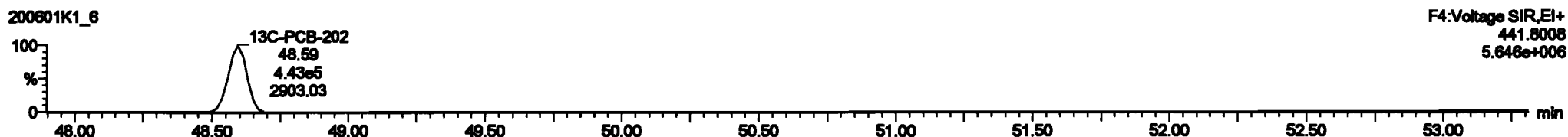


**13C-PCB-202**

200601K1\_6

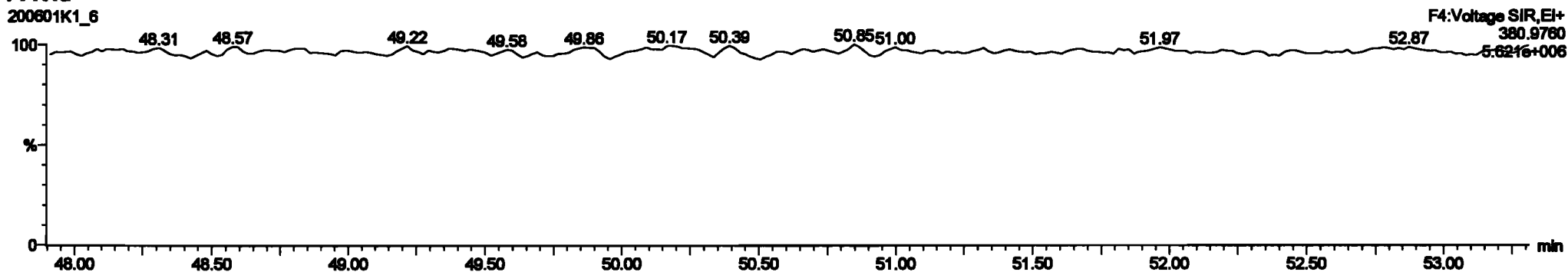


200601K1\_6



**PFK4d**

200601K1\_6



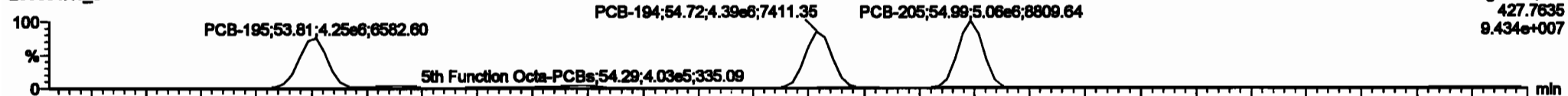
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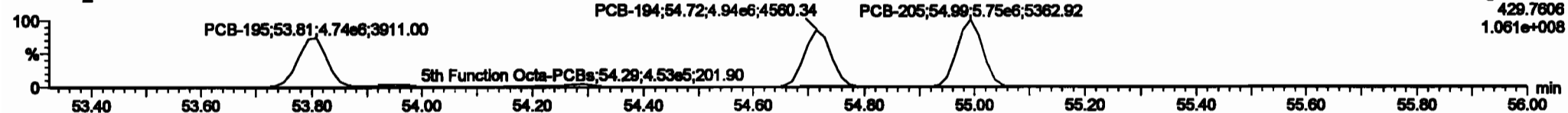
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**PCB-195**

200601K1\_6

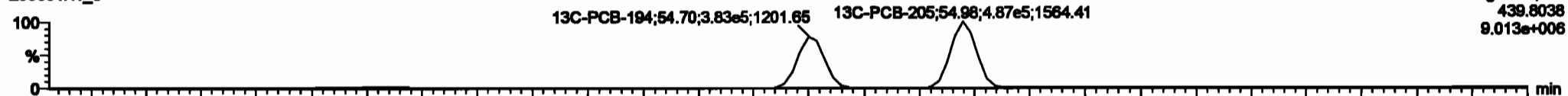


200601K1\_6

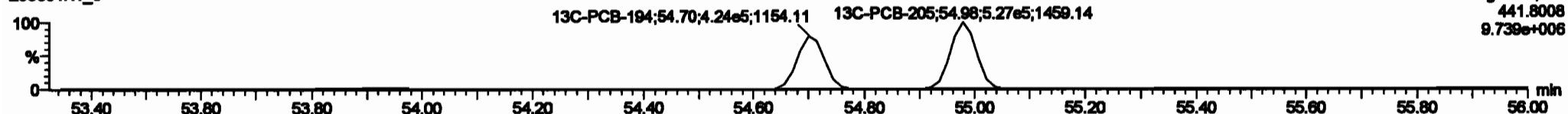


**13C-PCB-194**

200601K1\_6

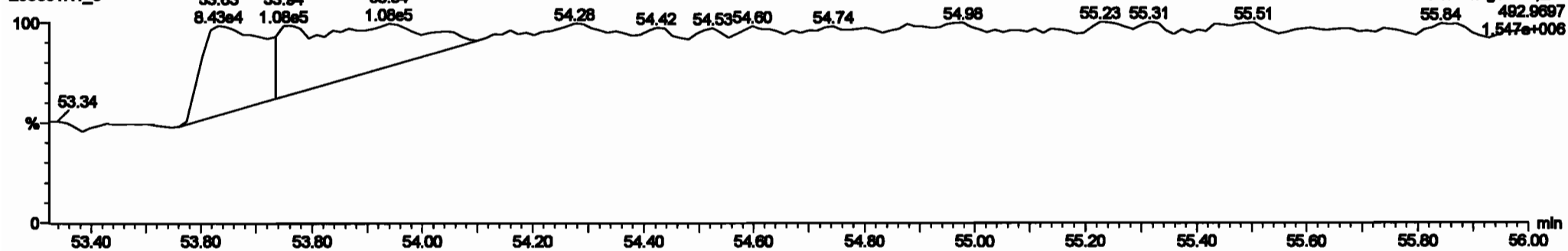


200601K1\_6



**PFK5a**

200601K1\_6

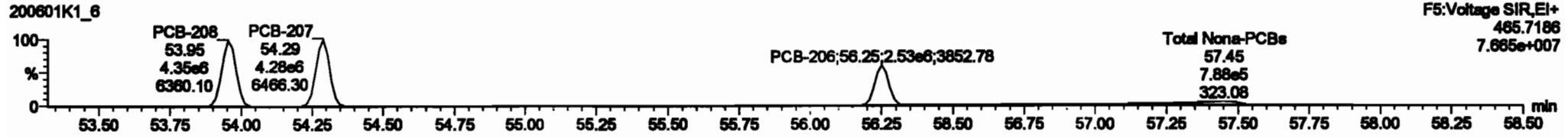
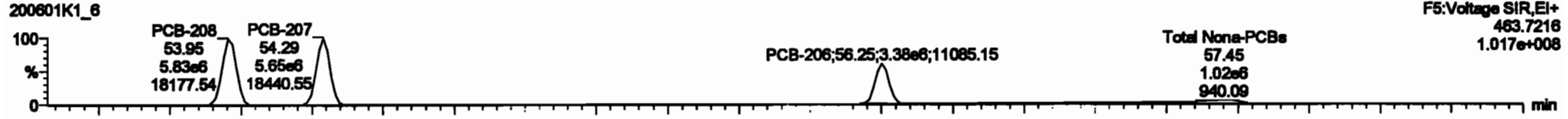


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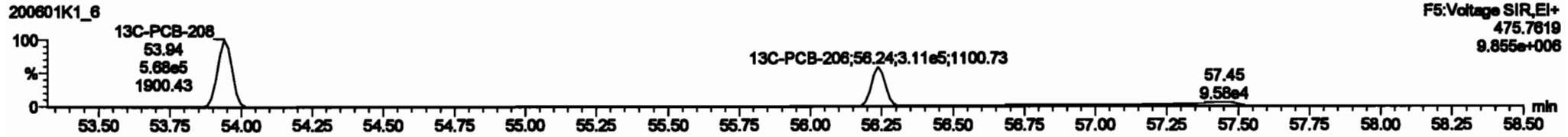
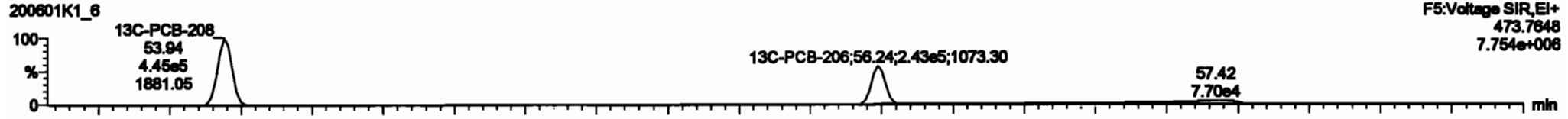
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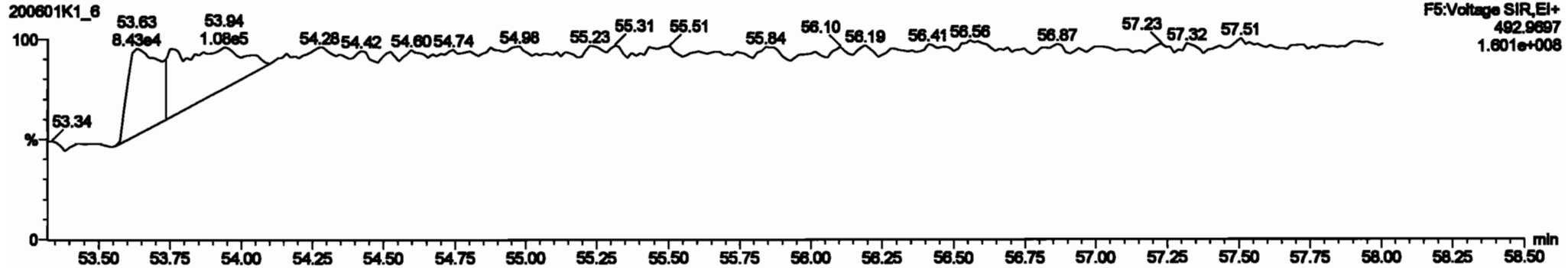
**PCB-208**



**13C-PCB-208**



**PFK5**



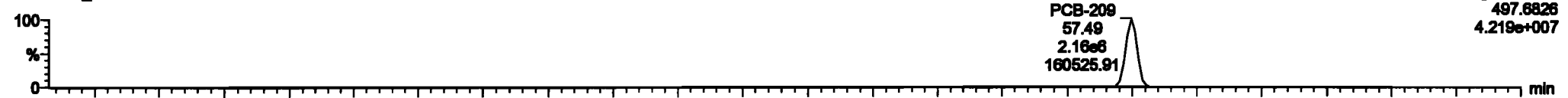
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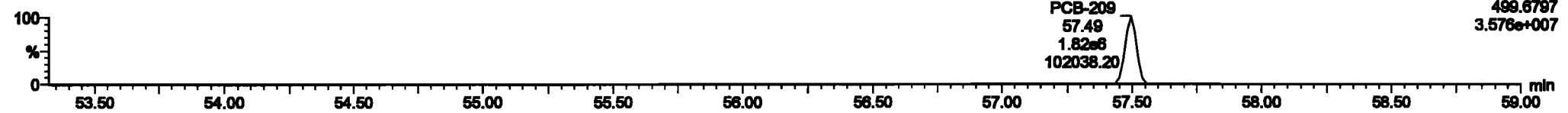
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**PCB-209**

200601K1\_6

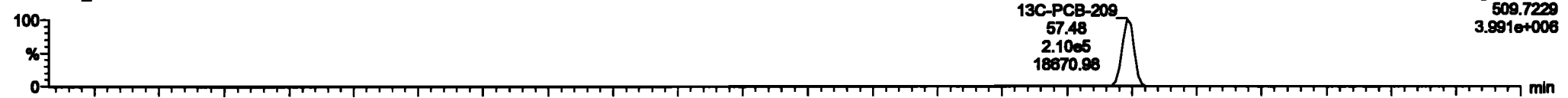


200601K1\_6

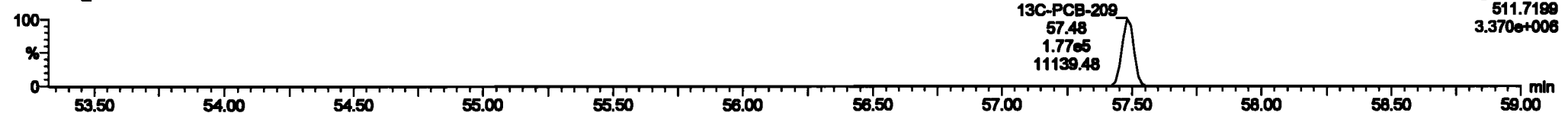


**13C-PCB-209**

200601K1\_6

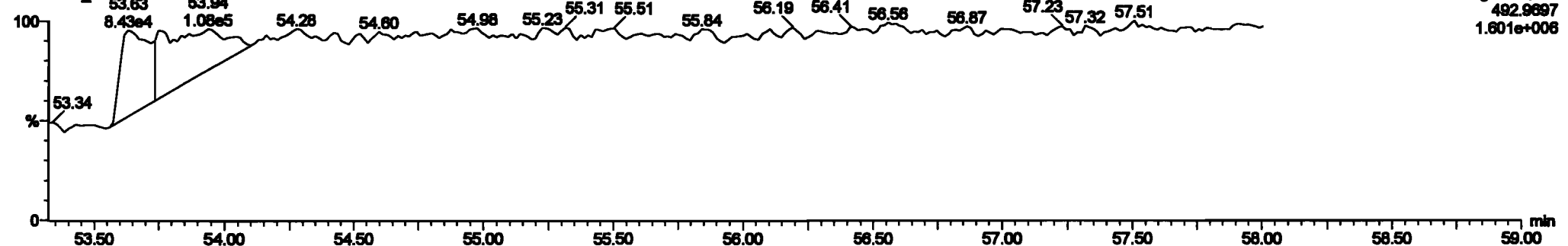


200601K1\_6



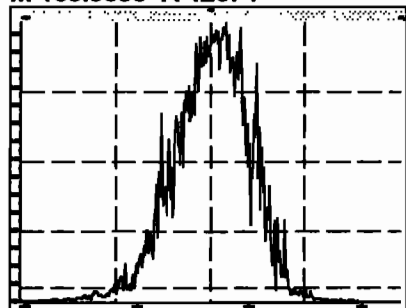
**PFK5b**

200601K1\_6

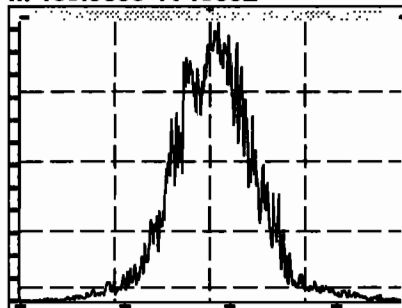


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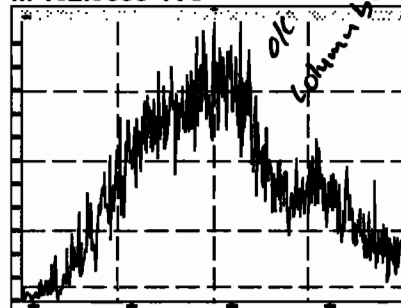
M 168.9888 R 12074



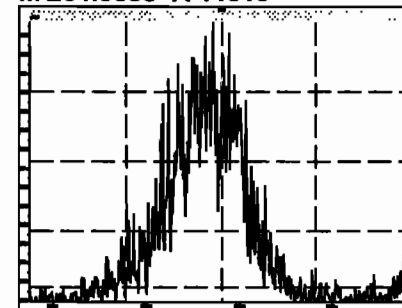
M 180.9888 R 10992



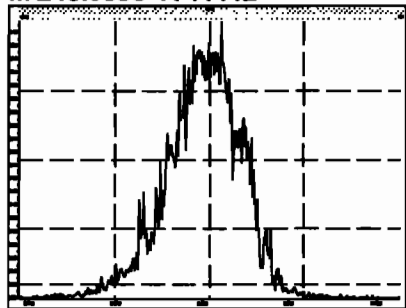
M 192.9888 R 0



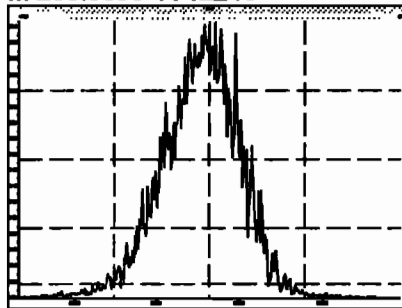
M 204.9888 R 14010



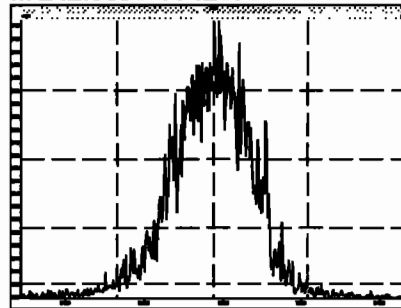
M 218.9856 R 11112



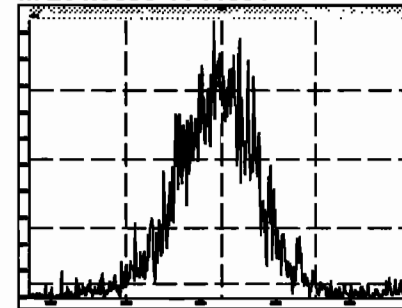
M 230.9856 R 12243



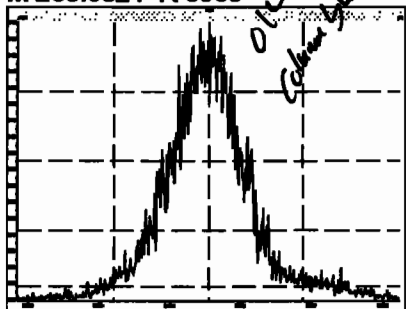
M 242.9856 R 12373



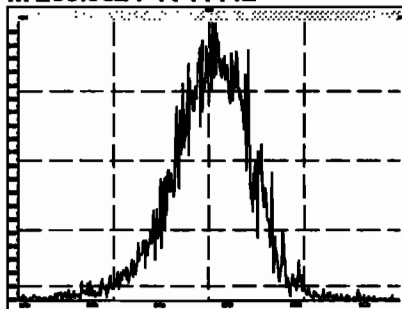
M 254.9856 R 11834



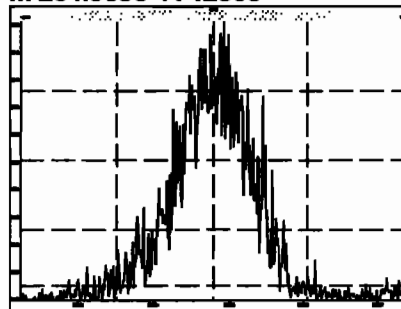
M 268.9824 R 9960



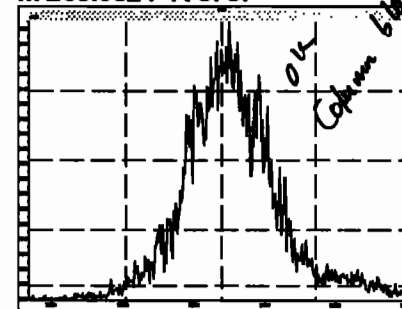
M 280.9824 R 11142



M 254.9856 R 12563

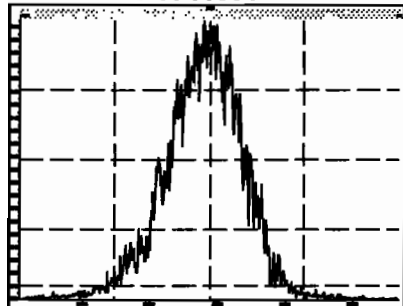


M 268.9824 R 8787

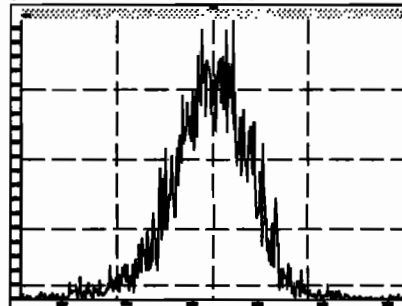


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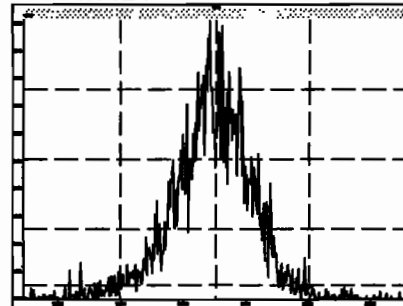
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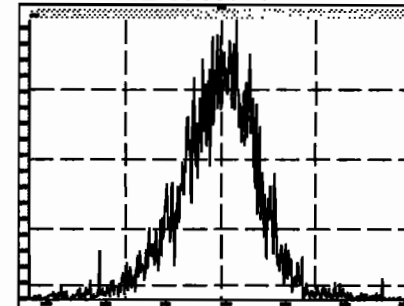
M 292.9824 R 12537



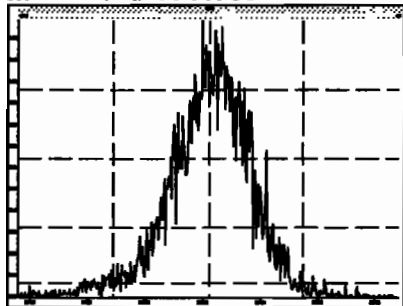
M 304.9824 R 11934



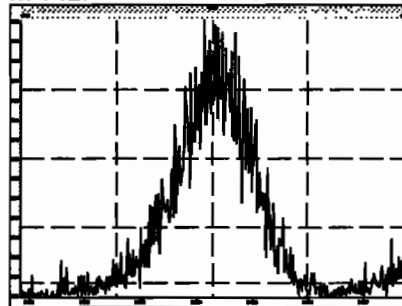
M 318.9792 R 11884



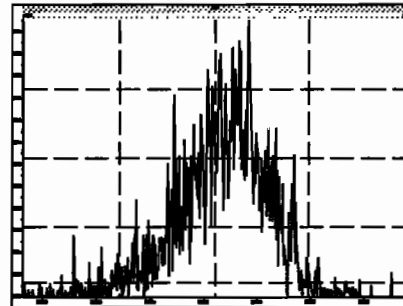
M 330.9792 R 11739



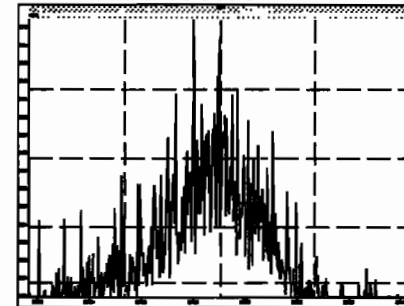
M 342.9792 R 11684



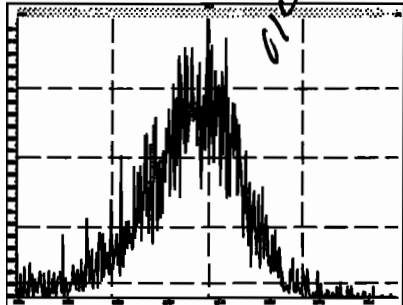
M 354.9792 R 12435



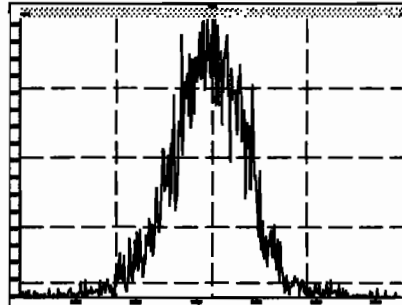
M 366.9792 R 14946



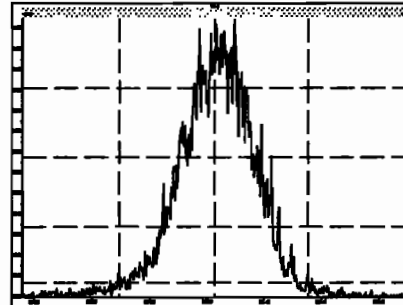
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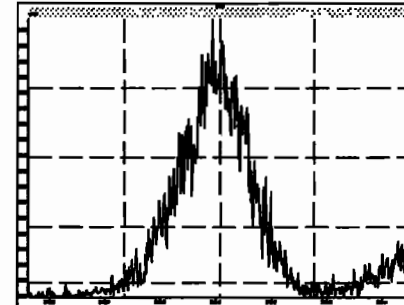
M 318.9792 R 12965



M 330.9792 R 11994

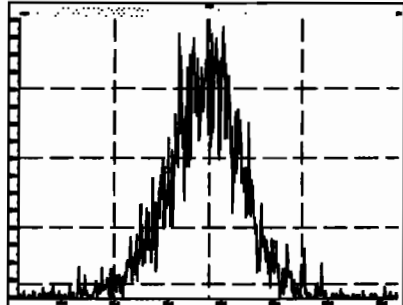


M 342.9792 R 12362

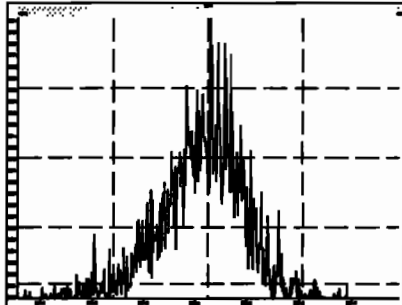




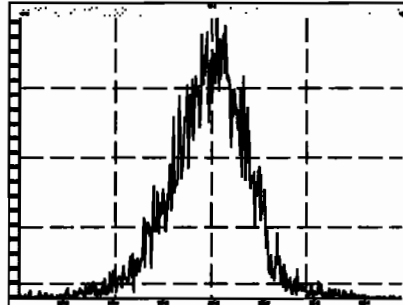
M 354.9792 R 12987



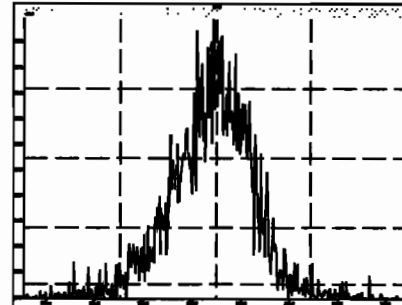
M 366.9792 R 13158



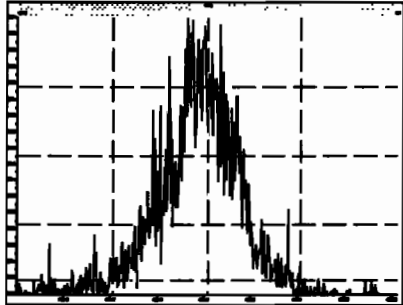
M 380.9760 R 12073



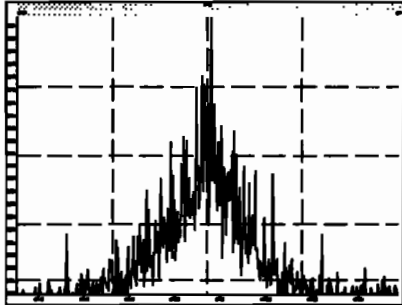
M 392.9760 R 12563



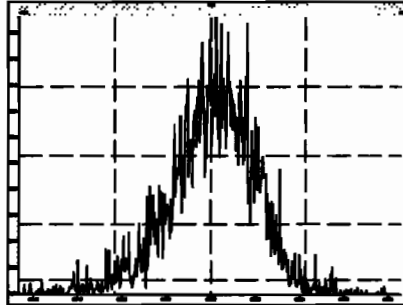
M 404.9760 R 12606



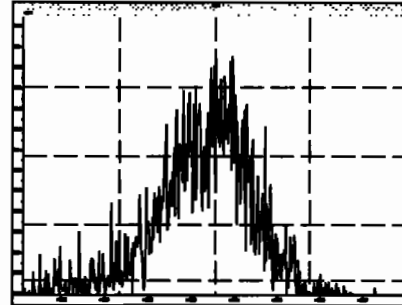
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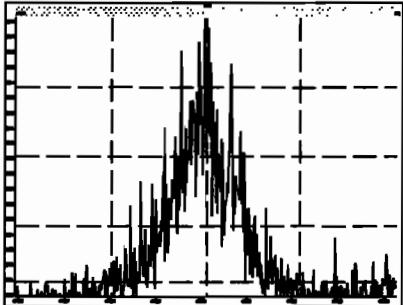
M 430.9728 R 12412



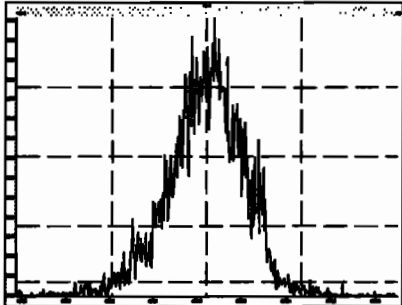
M 442.9728 R 13628



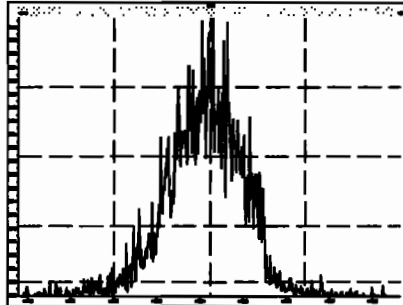
M 416.9760 R 17080



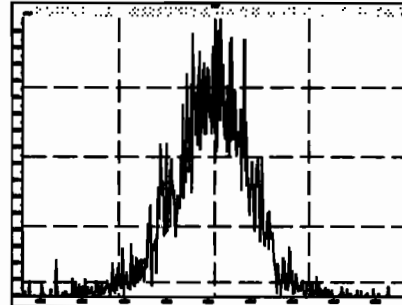
M 430.9728 R 12224



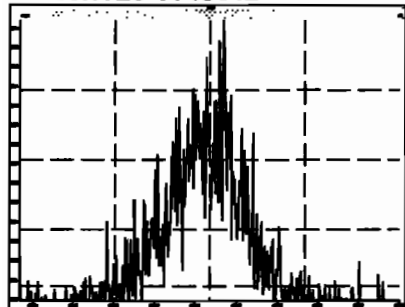
M 442.9728 R 13021



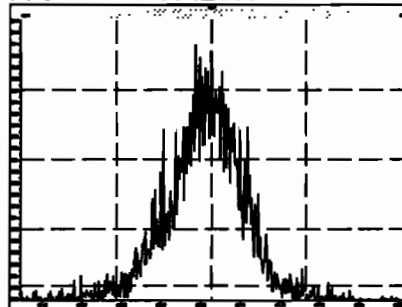
M 454.9728 R 14353



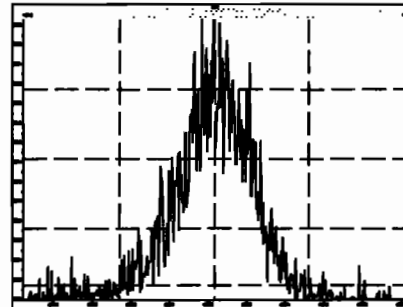
M 466.9728 R 15642



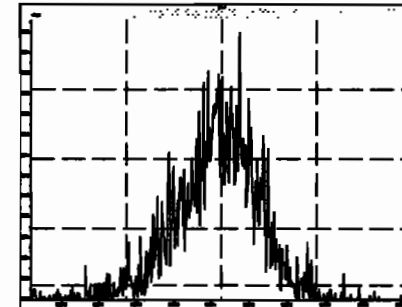
M 480.9696 R 12883



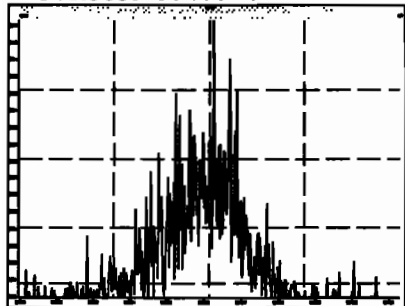
M 492.9696 R 13097



M 504.9696 R 12787



M 516.9697 R 19564



Dataset: U:\VG11.PRO\Results\200601K1\200601K1-7.qld

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*06/02/2020*

Method: Untitled 02 Jun 2020 10:36:07

Calibration: U:\VG11.PRO\CurveDB\vb1\_PCBvg11-6-1-20.cdb 02 Jun 2020 10:21:16

Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

#	Name	Resp	RA	RI	RRF	wt/wt	Prod.RT	RT	Prod.RI	RII	Check RFI	Conc	WRec	DI	EMPC
1	1 PCB-1	2.54e6	3.08	NO	1.17	1.000	15.53	15.54	1.001	1.001	NO	98.29	90-130	0.00958	98.29
2	2 PCB-2			NO	1.18	1.000	17.95		0.988		YES			0.00963	
3	3 PCB-3	2.60e6	3.06	NO	1.15	1.000	18.18	18.19	1.001	1.001	NO	99.67	70-130	0.00992	99.67
4	4 PCB-4/10	3.74e6	1.54	NO	1.25	1.000	19.61	19.60	1.004	1.004	NO	203.1	42.5-225	0.0422	203.1
5	5 PCB-7/9	2.33e6	1.55	NO	0.960	1.000	21.41	21.37	1.003	1.001	NO	101.6	70-130	0.0331	101.6
6	6 PCB-6			NO	1.02	1.000	22.06		1.033		YES			0.0311	
7	7 PCB-5/8	2.40e6	1.55	NO	0.992	1.000	22.46	22.46	1.052	1.052	NO	100.9	70-130	0.0320	100.9
8	8 PCB-14			NO	1.02	1.000	23.61		0.952		YES			0.0337	
9	9 PCB-11	2.29e6	1.57	NO	1.13	1.000	24.82	24.82	1.001	1.001	NO	87.28	70-130	0.0304	87.28
10	10 PCB-12/13	2.21e6	1.56	NO	1.03	1.000	25.26	25.26	1.018	1.018	NO	92.77		0.0333	92.77
11	11 PCB-15	2.35e6	1.56	NO	1.03	1.000	25.57	25.55	1.031	1.030	NO	97.71		0.0331	97.71
12	12 PCB-19	6.50e5	1.03	NO	1.11	1.000	23.79	23.79	1.001	1.001	NO	47.23	75-65	0.0234	47.23
13	13 PCB-30			NO	1.79	1.000	24.69		1.039		YES			0.0144	
14	14 PCB-18	6.76e5	1.02	NO	0.618	1.000	25.47	25.47	0.952	0.952	NO	45.50		0.0216	45.50
15	15 PCB-17			NO	0.758	1.000	25.64		0.958		YES			0.0233	
16	16 PCB-24/27			NO	1.08	1.000	26.26		0.981		YES			0.0163	
17	17 PCB-16/32			NO	0.925	1.000	26.79		1.001		YES			0.0191	
18	18 PCB-34			NO	0.945	1.000	27.58		0.959		YES			0.0221	
19	19 PCB-23			NO	0.883	1.000	27.67		0.982		YES			0.0236	
20	20 PCB-29			NO	0.893	1.000	27.93		0.971		YES			0.0234	
21	21 PCB-26			NO	0.944	1.000	28.16		0.979		YES			0.0221	
22	22 PCB-25			NO	0.950	1.000	28.31		0.984		YES			0.0220	
23	23 PCB-31	9.20e5	1.02	NO	1.04	1.000	28.68	28.70	0.997	0.997	NO	42.66		0.0201	42.66
24	24 PCB-28	9.58e5	1.07	NO	1.03	1.000	28.79	28.79	1.001	1.001	NO	44.94		0.0204	44.94
25	25 PCB-20/21/33	6.95e5	1.05	NO	0.941	1.000	29.43	29.46	1.023	1.024	NO	45.73	45.7	0.0222	45.73
26	26 PCB-22			NO	0.973	1.000	29.67		1.036		YES			0.0215	
27	27 PCB-36			NO	1.08	1.000	30.52		0.931		YES			0.0219	
28	28 PCB-39			NO	0.988	1.000	31.00		0.946		YES			0.0238	
29	29 PCB-38	6.46e5	1.05	NO	1.05	1.000	31.80	31.76	0.970	0.970	NO	43.25	75-65	0.0224	43.25
30	30 PCB-35	6.58e5	1.03	NO	1.04	1.000	32.34	32.32	0.987	0.986	NO	44.23		0.0226	44.23
31	31 PCB-37	6.92e5	1.05	NO	1.01	1.000	32.79	32.79	1.001	1.001	NO	47.59		0.0233	47.59
32	32 PCB-54	6.31e5	0.78	NO	1.08	1.000	27.64	27.64	1.001	1.001	NO	47.67		0.0216	47.67

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Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

#	Name	Resp	FA	n/y	RRP	w/nd	Prod RT	RT	Prod CR	FRT	Check FRT	Comp	U/B	DI	EMPC
33	33 PCB-50			NO	0.880	1.000	28.83		1.044		YES		35-65	0.0265	
34	34 PCB-53			NO	0.997	1.000	29.50		0.944		YES			0.0295	
35	35 PCB-51			NO	1.07	1.000	29.85		0.955		YES			0.0276	
36	36 PCB-45			NO	0.858	1.000	30.30		0.989		YES			0.0342	
37	37 PCB-46			NO	0.831	1.000	30.80		0.985		YES			0.0354	
38	38 PCB-52/69	6.95e5	0.76	NO	1.17	1.000	31.30	31.28	1.001	1.001	NO	46.22		0.0252	46.22
39	39 PCB-73			NO	1.44	1.000	31.41		1.005		YES			0.0204	
40	40 PCB-43/49	6.32e5	0.79	NO	1.02	1.000	31.59	31.60	1.010	1.011	NO	48.32		0.0289	48.32
41	41 PCB-47			NO	0.922	1.000	31.80		1.001		YES			0.0299	
42	42 PCB-48/75			NO	1.12	1.000	31.92		1.004		YES			0.0246	
43	43 PCB-65			NO	1.28	1.000	32.19		1.013		YES			0.0215	
44	44 PCB-62			NO	1.13	1.000	32.29		1.016		YES			0.0244	
45	45 PCB-44	5.42e5	0.76	NO	0.824	1.000	32.62	32.62	1.026	1.028	NO	47.17		0.0334	47.17
46	46 PCB-42/59			NO	1.05	1.000	32.85		1.033		YES			0.0262	
47	47 PCB-41/64/71/72			NO	1.19	1.000	33.47		1.053		YES			0.0232	
48	48 PCB-68			NO	1.28	1.000	33.72		1.061		YES			0.0215	
49	49 PCB-40			NO	0.602	1.000	33.95		1.068		YES			0.0457	
50	50 PCB-57	8.11e5	0.77	NO	1.16	1.000	34.32	34.32	0.989	0.969	NO	43.84		0.0211	43.84
51	51 PCB-67			NO	1.08	1.000	34.63		0.978		YES			0.0226	
52	52 PCB-58			NO	1.20	1.000	34.74		0.981		YES			0.0204	
53	53 PCB-63			NO	1.07	1.000	34.91		0.986		YES			0.0229	
54	54 PCB-74	8.49e5	0.79	NO	1.19	1.000	35.22	35.21	0.994	0.994	NO	45.03		0.0207	45.03
55	55 PCB-61/70	8.69e5	0.77	NO	1.05	1.000	35.43	35.43	1.000	1.001	NO	51.83		0.0233	51.83
56	56 PCB-76/66	8.24e5	0.78	NO	1.16	1.000	35.62	35.66	1.006	1.007	NO	44.47		0.0211	44.47
57	57 PCB-80			NO	1.19	1.000	35.86		1.001		YES			0.0204	
58	58 PCB-55			NO	1.17	1.000	36.20		1.010		YES			0.0207	
59	59 PCB-56/60			NO	1.02	1.000	36.70		1.024		YES			0.0238	
60	60 PCB-79	8.18e5	0.79	NO	1.14	1.000	37.80	37.81	1.055	1.055	NO	44.49		0.0213	44.49
61	61 PCB-78	7.39e5	0.78	NO	1.14	1.000	38.52	38.52	0.987	0.987	NO	42.34		0.0232	42.34
62	62 PCB-81	8.37e5	0.77	NO	1.05	1.000	39.06	39.08	1.000	1.000	NO	52.15		0.0252	52.15
63	63 PCB-77	7.93e5	0.78	NO	1.14	1.000	39.68	39.68	1.000	1.000	NO	48.37		0.0237	46.37
64	64 PCB-104	6.77e5	1.57	NO	1.12	1.000	32.47	32.47	1.001	1.001	NO	54.51		0.0255	54.51
65	65 PCB-96			NO	1.15	1.000	33.78		1.041		YES			0.0248	
66	66 PCB-103			NO	0.936	1.000	34.32		1.058		YES			0.0305	
67	67 PCB-100			NO	0.954	1.000	34.69		1.089		YES			0.0300	
68	68 PCB-94			NO	0.949	1.000	35.21		0.985		YES			0.0390	

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Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

#	Name	Resp	RA	NY	RPF	Wt/Fac	Prod.RT	RT	Prod.LI	RRT	Check.RRT	Conc.	%Rec	DL	EMPC
69	69 PCB-95/98/102	4.83e5	1.58	NO	1.20	1.000	35.69	35.75	0.999	1.001	NO	46.51	46.5	0.0307	46.51
70	70 PCB-93			NO	0.935	1.000	35.81		1.002		YES			0.0396	
71	71 PCB-88/91			NO	1.06	1.000	36.16		1.012		YES			0.0347	
72	72 PCB-121			NO	1.71	1.000	36.25		1.015		YES			0.0218	
73	73 PCB-84/92			NO	1.02	1.000	37.10		0.990		YES			0.0377	
74	74 PCB-89			NO	1.11	1.000	37.27		0.995		YES			0.0347	
75	75 PCB-90/101	5.13e5	1.81	NO	1.12	1.000	37.48	37.50	1.000	1.001	NO	54.10		0.0342	54.10
76	76 PCB-113			NO	1.51	1.000	37.72		1.007		YES			0.0253	
77	77 PCB-99	5.21e5	1.60	NO	1.32	1.000	37.81	37.83	1.009	1.010	NO	46.70		0.0290	46.70
78	78 PCB-119			NO	1.81	1.000	38.32		0.987		YES			0.0246	
79	79 PCB-108/112			NO	1.44	1.000	38.47		0.991		YES			0.0308	
80	80 PCB-83			NO	1.83	1.000	38.63		0.995		YES			0.0243	
81	81 PCB-97			NO	1.28	1.000	38.84		1.000		YES			0.0347	
82	82 PCB-86			NO	1.12	1.000	39.01		1.005		YES			0.0398	
83	83 PCB-87/117/125	4.49e5	1.58	NO	1.56	1.000	39.14	39.14	1.008	1.008	NO	38.66	38.7	0.0285	38.66
84	84 PCB-111/115	6.30e5	1.58	NO	1.91	1.000	39.29	39.28	1.012	1.012	NO	44.26		0.0233	44.26
85	85 PCB-85/116			NO	1.41	1.000	39.42		1.015		YES			0.0315	
86	86 PCB-120			NO	2.01	1.000	39.68		1.022		YES			0.0222	
87	87 PCB-110	6.19e5	1.57	NO	1.74	1.000	39.83	39.81	1.026	1.025	NO	47.71		0.0255	47.71
88	88 PCB-82			NO	0.781	1.000	40.48		0.976		YES			0.0410	
89	89 PCB-124			NO	1.40	1.000	41.17		0.993		YES			0.0229	
90	90 PCB-107/109			NO	1.34	1.000	41.31		0.996		YES			0.0239	
91	91 PCB-123	6.07e5	1.57	NO	1.20	1.000	41.48	41.48	1.000	1.000	NO	50.39		0.0267	50.39
92	92 PCB-106/118	6.56e5	1.60	NO	1.22	1.000	41.69	41.67	1.001	1.000	NO	51.95		0.0255	51.95
93	93 PCB-114	6.19e5	1.52	NO	1.14	1.000	42.34	42.34	1.000	1.000	NO	43.57		0.0294	43.57
94	94 PCB-122			NO	0.944	1.000	42.49		1.004		YES			0.0355	
95	95 PCB-105	6.38e5	1.56	NO	1.05	1.000	43.23	43.23	1.000	1.000	NO	47.30		0.0310	47.30
96	96 PCB-127			NO	1.06	1.000	43.57		1.000		YES			0.0310	
97	97 PCB-126	7.05e5	1.58	NO	1.17	1.000	45.54	45.54	1.000	1.000	NO	48.02		0.0296	48.02
98	98 PCB-155	4.07e5	1.28	NO	1.04	1.000	37.01	37.01	1.000	1.001	NO	56.82		0.0303	56.82
99	99 PCB-150			NO	1.08	1.000	38.33		1.036		YES			0.0292	
100	1... PCB-152			NO	1.19	1.000	38.82		1.049		YES			0.0266	
101	1... PCB-145			NO	1.19	1.000	39.29		1.062		YES			0.0266	
102	1... PCB-136			NO	1.02	1.000	39.82		1.071		YES			0.0309	
103	1... PCB-148			NO	0.842	1.000	39.73		1.074		YES			0.0375	
104	1... PCB-154			NO	0.919	1.000	40.23		1.067		YES			0.0344	

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Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

#	Name	Comp	RA	Qty	RRP	w/Vol	Prod RT	RT	Prod FL	RRT	Check RRT	Comp	%Rec	DL	EMPC
105	1... PCB-151			NO	0.787	1.000	40.90		1.105		YES			0.0402	
106	1... PCB-135			NO	0.922	1.000	41.13		1.112		YES			0.0343	
107	1... PCB-144			NO	0.789	1.000	41.24		1.115		YES			0.0400	
108	1... PCB-147			NO	0.834	1.000	41.37		1.118		YES			0.0379	
109	1... PCB-139/149	2.83e5	1.29	NO	0.948	1.000	41.64	41.61	1.125	1.125	NO	43.47		0.0333	43.47
110	1... PCB-140			NO	0.794	1.000	41.64		1.131		YES			0.0398	
111	1... PCB-134/143			NO	0.759	1.000	42.29		0.975		YES			0.0574	
112	1... PCB-131/133			NO	0.821	1.000	42.59		0.982		YES			0.0531	
113	1... PCB-142			NO	0.754	1.000	42.74		0.985		YES			0.0578	
114	1... PCB-146/165			NO	1.02	1.000	42.98		0.991		YES			0.0429	
115	1... PCB-132/161			NO	1.02	1.000	43.22		0.998		YES			0.0425	
116	1... PCB-153	5.68e5	1.23	NO	1.07	1.000	43.40	43.40	1.000	1.000	NO	46.28		0.0407	46.28
117	1... PCB-168			NO	1.08	1.000	43.63		1.006		YES			0.0404	
118	1... PCB-141			NO	1.03	1.000	44.16		1.000		YES			0.0508	
119	1... PCB-137			NO	1.11	1.000	44.56		1.010		YES			0.0468	
120	1... PCB-130			NO	0.885	1.000	44.66		1.012		YES			0.0587	
121	1... PCB-138/163/164	4.98e5	1.23	NO	1.28	1.000	45.05	45.03	1.001	1.000	NO	38.87	36.9	0.0393	38.87
122	1... PCB-158/160			NO	1.24	1.000	45.30		1.006		YES			0.0407	
123	1... PCB-129			NO	0.867	1.000	45.56		1.012		YES			0.0582	
124	1... PCB-166			NO	1.14	1.000	46.02		0.993		YES			0.0372	
125	1... PCB-159			NO	1.22	1.000	46.36		1.000		YES			0.0350	
126	1... PCB-128/162	6.25e5	1.23	NO	0.907	1.000	46.64	46.66	1.007	1.007	NO	57.08		0.0469	57.08
127	1... PCB-167	6.67e5	1.24	NO	1.11	1.000	47.06	47.06	1.000	1.000	NO	50.25		0.0377	50.25
128	1... PCB-156	5.92e5	1.21	NO	1.13	1.000	48.39	48.38	1.000	1.000	NO	46.00		0.0392	46.00
129	1... PCB-157	6.60e5	1.23	NO	1.04	1.000	48.69	48.67	1.001	1.000	NO	55.54		0.0434	55.54
130	1... PCB-169	5.71e5	1.25	NO	1.16	1.000	50.94	50.94	1.000	1.000	NO	45.51		0.0426	45.51
131	1... PCB-188	6.25e5	1.04	NO	1.29	1.000	43.04	43.02	1.001	1.000	NO	51.05		0.0525	51.05
132	1... PCB-184			NO	1.23	1.000	43.49		1.011		YES			0.0550	
133	1... PCB-179			NO	1.30	1.000	44.29		1.030		YES			0.0522	
134	1... PCB-176			NO	1.31	1.000	44.76		1.041		YES			0.0518	
135	1... PCB-188			NO	1.33	1.000	45.41		1.056		YES			0.0510	
136	1... PCB-178	4.35e5	1.04	NO	0.943	1.000	45.92	45.90	1.088	1.067	NO	48.56		0.0718	48.56
137	1... PCB-175			NO	0.956	1.000	46.26		1.076		YES			0.0708	
138	1... PCB-182/187	4.62e5	1.05	NO	1.07	1.000	46.44	46.43	1.080	1.080	NO	45.61		0.0635	45.61
139	1... PCB-183			NO	1.02	1.000	46.76		1.088		YES			0.0662	
140	1... PCB-185			NO	1.41	1.000	47.44		0.955		YES			0.0779	

Dataset: U:\VG11.PRO\Results\200601K1\200601K1-7.qld

Last Altered: Tuesday, June 02, 2020 11:36:30 Pacific Daylight Time  
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Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

#	Name	Resp	FA	rv	RRF	u/Std	PreclRT	RT	PreclLR	RRT	Check RRT	Comp	NDeg	DI	EMPC
141	1... PCB-174	4.07e5	1.04	NO	1.35	1.000	47.82	47.82	0.962	0.962	NO	48.49	75-65	0.0809	48.49
142	1... PCB-181			NO	1.47	1.000	47.91		0.964		YES			0.0743	
143	1... PCB-177			NO	1.28	1.000	48.10		0.968		YES			0.0857	
144	1... PCB-171			NO	1.32	1.000	48.38		0.974		YES			0.0832	
145	1... PCB-173			NO	1.19	1.000	48.84		0.963		YES			0.0921	
146	1... PCB-172			NO	1.38	1.000	49.29		0.992		YES			0.0797	
147	1... PCB-192			NO	1.83	1.000	49.48		0.996		YES			0.0800	
148	1... PCB-180	4.72e5	1.03	NO	1.41	1.000	49.71	49.71	1.000	1.000	NO	53.98		0.0776	53.98
149	1... PCB-193			NO	1.68	1.000	49.92		1.005		YES			0.0653	
150	1... PCB-191			NO	1.71	1.000	50.18		1.010		YES			0.0641	
151	1... PCB-170	3.70e5	1.03	NO	1.40	1.000	51.38	51.38	1.000	1.000	NO	49.87		0.0889	49.87
152	1... PCB-190			NO	1.85	1.000	51.56		1.004		YES			0.0673	
153	1... PCB-189	4.84e5	1.02	NO	1.45	1.000	53.10	53.10	1.000	1.000	NO	48.57		0.0563	48.57
154	1... PCB-202	4.00e5	0.90	NO	1.17	1.000	48.63	48.61	1.001	1.000	NO	48.62		0.0325	48.62
155	1... PCB-201			NO	1.05	1.000	49.10		1.010		YES			0.0361	
156	1... PCB-204			NO	1.14	1.000	49.26		1.014		YES			0.0333	
157	1... PCB-197			NO	1.13	1.000	49.58		1.020		YES			0.0335	
158	1... PCB-200	3.56e5	0.90	NO	1.07	1.000	50.51	50.53	1.039	1.040	NO	47.30		0.0355	47.30
159	1... PCB-198			NO	0.794	1.000	52.08		1.072		YES			0.0478	
160	1... PCB-199			NO	0.809	1.000	52.19		1.074		YES			0.0469	
161	1... PCB-196/203	2.68e5	0.89	NO	0.838	1.000	52.52	52.51	1.081	1.081	NO	45.47		0.0453	45.47
162	1... PCB-195	3.17e5	0.91	NO	1.04	1.000	53.80	53.81	0.964	0.984	NO	50.09		0.113	50.09
163	1... PCB-194	3.10e5	0.87	NO	1.12	1.000	54.72	54.72	1.000	1.000	NO	45.83		0.106	45.83
164	1... PCB-205	3.70e5	0.90	NO	1.29	1.000	54.98	54.99	1.005	1.005	NO	47.35		0.0916	47.35
165	1... PCB-208	3.79e5	1.33	NO	0.933	1.000	53.96	53.95	1.000	1.000	NO	49.81		0.0505	49.81
166	1... PCB-207			NO	0.916	1.000	54.27		1.006		YES			0.0515	
167	1... PCB-206	2.04e5	1.31	NO	1.01	1.000	56.25	56.25	1.000	1.000	NO	47.01		0.0860	47.01
168	1... PCB-209	1.50e5	1.19	NO	0.986	1.000	57.48	57.49	1.000	1.000	NO	52.18		0.0103	52.18
169	1... 13C-PCB-1	2.21e6	3.38	NO	0.893	1.000	15.52	15.52	0.608	0.608	NO	101.9	102	0.0672	
170	1... 13C-PCB-3	2.27e6	3.33	NO	0.911	1.000	18.17	18.17	0.712	0.712	NO	102.6	103	0.0859	
171	1... 13C-PCB-4	1.48e6	1.57	NO	0.600	1.000	19.52	19.53	0.765	0.785	NO	101.3	101	0.0291	
172	1... 13C-PCB-9	2.39e6	1.58	NO	0.970	1.000	21.35	21.35	0.836	0.836	NO	101.7	102	0.0180	
173	1... 13C-PCB-11	2.32e6	1.58	NO	0.962	1.000	24.79	24.80	0.971	0.972	NO	99.61	99.6	0.0182	
174	1... 13C-PCB-19	1.24e6	1.04	NO	0.499	1.000	23.76	23.76	0.931	0.931	NO	102.7	103	0.414	
175	1... 13C-PCB-32	1.82e6	1.03	NO	0.744	1.000	26.75	26.76	1.048	1.048	NO	100.7	101	0.278	
176	1... 13C-PCB-28	2.08e6	1.02	NO	1.08	1.000	28.77	28.77	1.004	1.004	NO	99.64	99.6	0.289	

Dataset: U:\VG11.PRO\Results\200601K1\200601K1-7.qld

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Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

#	Name	Resp	RA	ly	RFP	w/w	Prod RT	RT	Prod LR	RRT	Check RRT	Conc	%Rec	DI	EMPC
177	1... 13C-PCB-37	1.86e6	1.04	NO	0.989	1.000	32.75	32.77	1.143	1.143	NO	95.79	95.8	0.289	
178	1... 13C-PCB-54	1.81e6	0.80	NO	0.999	1.000	27.63	27.62	0.753	0.753	NO	101.4	101	0.0659	
179	1... 13C-PCB-52	1.29e6	0.77	NO	0.804	1.000	31.27	31.26	0.852	0.852	NO	100.5	100	0.0819	
180	1... 13C-PCB-47	1.39e6	0.78	NO	0.857	1.000	31.79	31.78	0.866	0.866	NO	102.0	102	0.0768	
181	1... 13C-PCB-70	1.59e6	0.79	NO	0.996	1.000	35.43	35.41	0.985	0.985	NO	100.3	100	0.0661	
182	1... 13C-PCB-80	1.61e6	0.78	NO	1.03	1.000	35.65	35.84	0.977	0.977	NO	98.54	98.5	0.0640	
183	1... 13C-PCB-81	1.53e6	0.78	NO	0.988	1.000	39.06	39.04	1.064	1.064	NO	97.41	97.4	0.0666	
184	1... 13C-PCB-77	1.50e6	0.79	NO	0.989	1.000	39.68	39.66	1.061	1.061	NO	97.40	97.4	0.0660	
185	1... 13C-PCB-104	1.11e6	1.63	NO	1.02	1.000	32.47	32.46	0.827	0.827	NO	100.9	101	0.0381	
186	1... 13C-PCB-95	8.62e5	1.64	NO	0.805	1.000	35.72	35.73	0.910	0.910	NO	99.28	99.3	0.0481	
187	1... 13C-PCB-101	8.44e5	1.64	NO	0.793	1.000	37.48	37.46	0.954	0.954	NO	98.77	98.8	0.0489	
188	1... 13C-PCB-97	7.45e5	1.65	NO	0.696	1.000	38.82	38.82	0.989	0.989	NO	99.17	99.2	0.0557	
189	1... 13C-PCB-123	1.01e6	1.67	NO	0.933	1.000	41.46	41.46	1.056	1.056	NO	99.89	99.9	0.0416	
190	1... 13C-PCB-118	1.03e6	1.62	NO	0.986	1.000	41.85	41.85	1.061	1.061	NO	97.34	97.3	0.0393	
191	1... 13C-PCB-114	1.25e6	1.55	NO	1.55	1.000	42.32	42.32	0.908	0.908	NO	94.22	94.2	0.0809	
192	1... 13C-PCB-105	1.28e6	1.56	NO	1.57	1.000	43.21	43.21	0.927	0.927	NO	95.20	95.2	0.0796	
193	1... 13C-PCB-127	1.30e6	1.56	NO	1.62	1.000	43.56	43.55	0.934	0.934	NO	93.64	93.6	0.0770	
194	1... 13C-PCB-126	1.25e6	1.58	NO	1.57	1.000	45.53	45.52	0.976	0.976	NO	93.40	93.4	0.0798	
195	1... 13C-PCB-155	6.87e5	1.29	NO	0.615	1.000	37.00	37.00	0.942	0.942	NO	103.6	104	0.0326	
196	1... 13C-PCB-153	1.15e6	1.24	NO	1.36	1.000	43.37	43.38	0.930	0.931	NO	98.32	98.3	0.0878	
197	1... 13C-PCB-141	9.61e5	1.27	NO	1.13	1.000	44.14	44.14	0.947	0.947	NO	99.66	99.7	0.106	
198	1... 13C-PCB-138	9.99e5	1.26	NO	1.18	1.000	45.01	45.01	0.985	0.985	NO	96.63	96.6	0.101	
199	1... 13C-PCB-159	1.21e6	1.26	NO	1.44	1.000	46.33	46.34	0.994	0.994	NO	98.13	98.1	0.0832	
200	2... 13C-PCB-167	1.20e6	1.28	NO	1.44	1.000	47.04	47.04	1.009	1.009	NO	97.25	97.3	0.0832	
201	2... 13C-PCB-156	1.14e6	1.27	NO	1.40	1.000	46.39	46.37	1.038	1.037	NO	95.71	95.7	0.0858	
202	2... 13C-PCB-157	1.14e6	1.27	NO	1.40	1.000	46.65	46.65	1.043	1.043	NO	95.86	95.9	0.0858	
203	2... 13C-PCB-169	1.08e6	1.26	NO	1.33	1.000	50.93	50.92	1.092	1.092	NO	95.29	95.3	0.0900	
204	2... 13C-PCB-188	9.50e5	0.45	NO	1.41	1.000	42.99	43.00	0.926	0.926	NO	100.3	100	0.0865	
205	2... 13C-PCB-180	6.20e5	0.44	NO	0.929	1.000	49.69	49.69	1.070	1.070	NO	99.28	99.3	0.131	
206	2... 13C-PCB-170	5.29e5	0.46	NO	0.794	1.000	51.36	51.38	1.106	1.106	NO	99.16	99.2	0.153	
207	2... 13C-PCB-189	6.86e5	0.46	NO	1.04	1.000	53.06	53.08	1.143	1.143	NO	97.68	97.7	0.117	
208	2... 13C-PCB-202	7.04e5	0.93	NO	1.04	1.000	48.59	48.59	1.046	1.047	NO	101.1	101	0.0796	
209	2... 13C-PCB-194	6.06e5	0.91	NO	0.768	1.000	54.72	54.70	0.995	0.995	NO	99.49	99.5	0.195	
210	2... 13C-PCB-208	6.16e5	0.77	NO	0.991	1.000	53.94	53.94	0.981	0.981	NO	103.8	104	0.137	
211	2... 13C-PCB-206	4.31e5	0.78	NO	0.552	1.000	56.24	56.24	1.023	1.023	NO	98.29	98.3	0.246	
212	2... 13C-PCB-209	2.91e5	1.17	NO	0.396	1.000	57.49	57.48	1.046	1.046	NO	92.65	92.6	0.0202	

6-10-20



Dataset: U:\VG11.PRO\Results\200601K1\200601K1-7.qld

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Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

#	Name	Resp	RA	Hy	RFP	wAve	Prod RT	RT	Prod R...	RRT	Check RRT	Conc	%Rec	DL	EMPC
213	2... 13C-PCB-15	2.43e6	1.56	NO	1.00	1.000	25.53	25.53	1.000	0.000	NO	100.0	100	0.0175	
214	2... 13C-PCB-31	1.96e6	1.05	NO	1.00	1.000	28.66	28.66	1.000	0.000	NO	100.0	100	0.286	
215	2... 13C-PCB-60	1.59e6	0.78	NO	1.00	1.000	36.68	36.70	1.000	0.000	NO	100.0	100	0.0658	
216	2... 13C-PCB-111	1.08e6	1.65	NO	1.00	1.000	39.25	39.27	1.000	0.000	NO	100.0	100	0.0388	
217	2... 13C-PCB-128	8.55e5	1.27	NO	1.00	1.000	46.60	46.62	1.000	0.000	NO	100.0	100	0.120	
218	2... 13C-PCB-182	6.72e5	0.47	NO	1.00	1.000	46.43	46.43	0.000	0.000	NO	100.0	100	0.122	
219	2... 13C-PCB-205	7.94e5	0.90	NO	1.00	1.000	54.96	54.98	1.000	0.000	NO	100.0	100	0.149	
220	2... 13C-PCB-79	1.70e6	0.78	NO	1.07	1.000	37.60	37.78	1.030	1.029	NO	100.0	100	0.0616	7-1201
221	2... 13C-PCB-178	6.89e5	0.44	NO	0.766	1.000	45.89	45.88	0.988	0.988	NO	105.2	105	0.128	
222	2... 13C-PCB-79	1.70e6	0.78	NO	1.08	1.000	37.78	37.78	0.968	0.968	NO	102.7	103	0.0641	
223	2... 13C-PCB-178	6.89e5	0.44	NO	1.05	1.000	45.87	45.88	0.923	0.923	NO	105.8	106	0.131	

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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
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Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

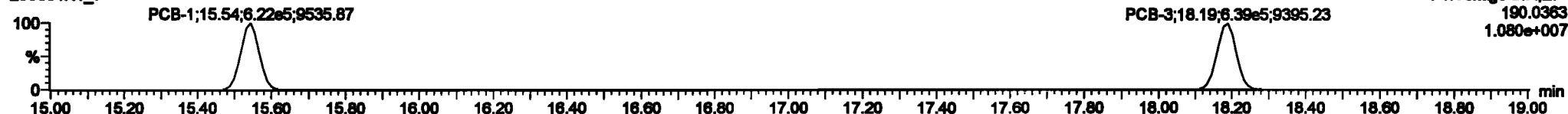
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200601K1\_7



F1:Voltage SIR,EI+  
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3.334e+007

200601K1\_7



F1:Voltage SIR,EI+  
190.0363  
1.080e+007

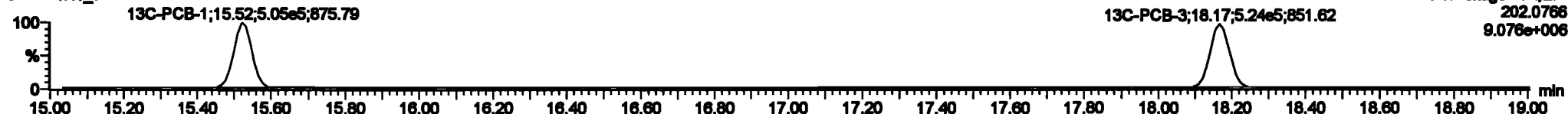
**13C-PCB-1**

200601K1\_7



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2.837e+007

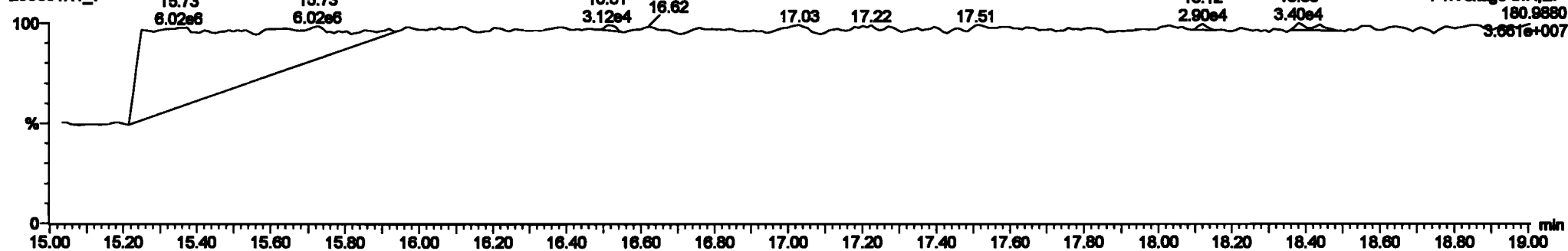
200601K1\_7



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9.076e+006

**PFK1**

200601K1\_7



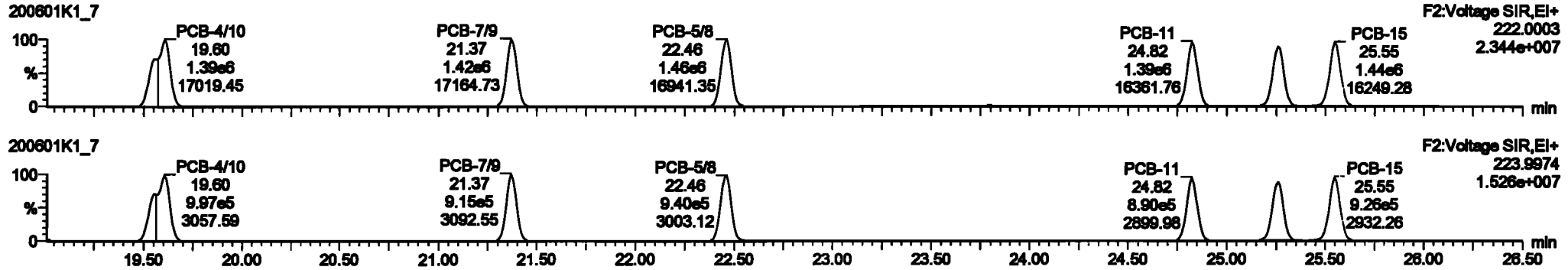
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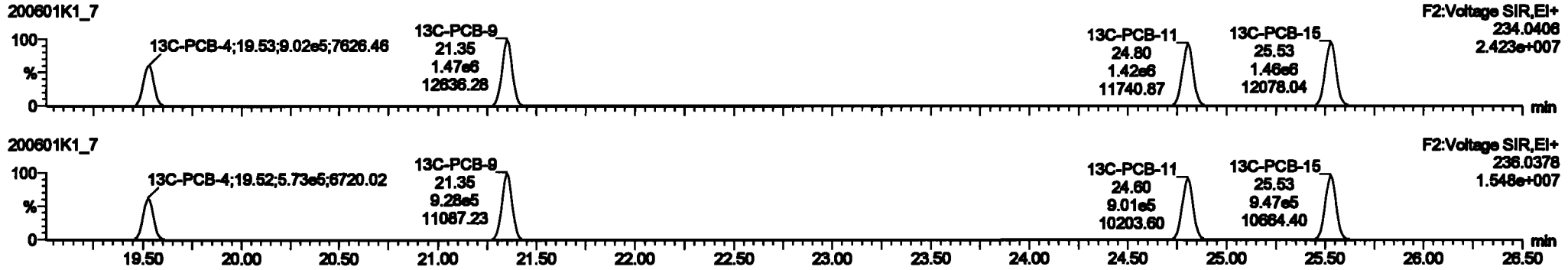
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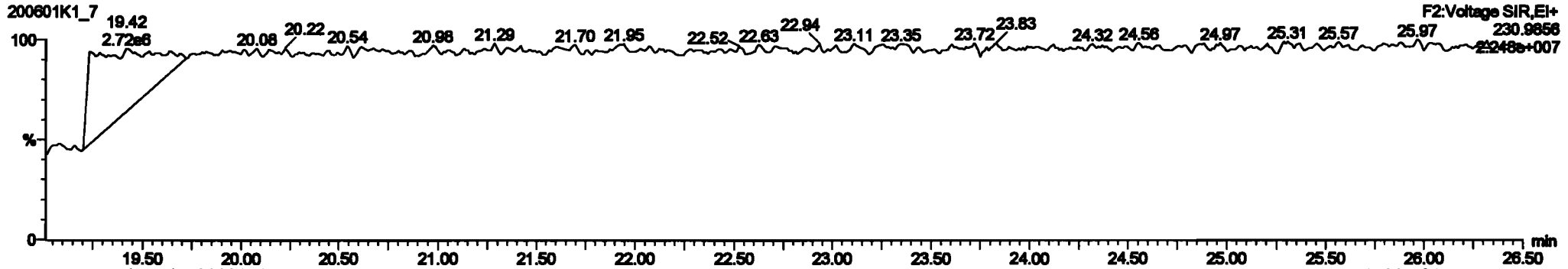
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**13C-PCB-4**



**PFK2a**





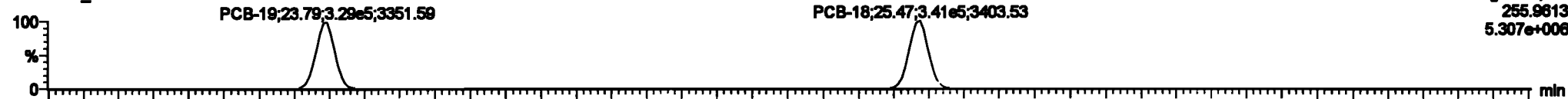
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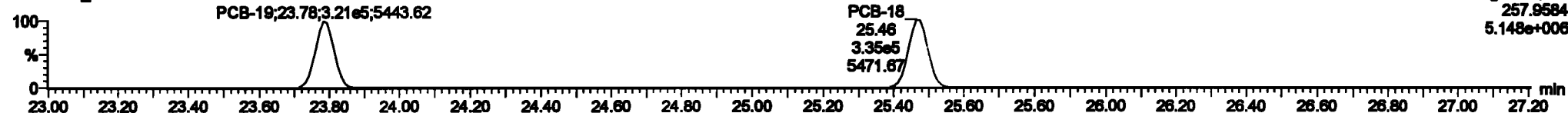
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PCB-19

200601K1\_7



200601K1\_7



13C-PCB-19

200601K1\_7

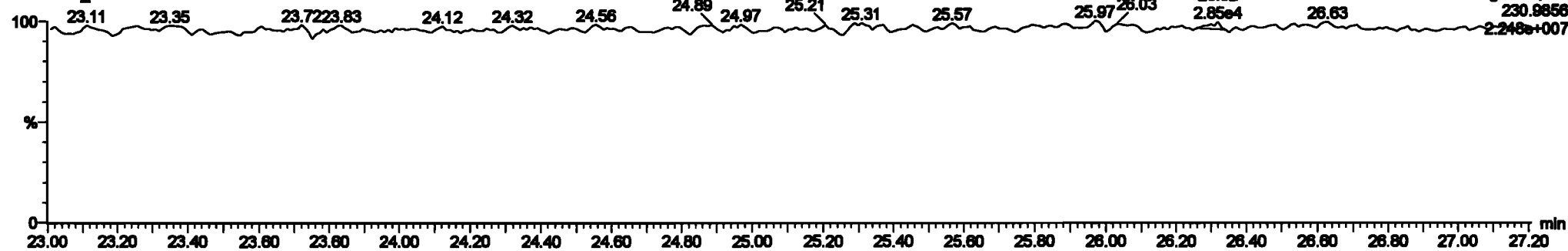


200601K1\_7



PFK2b

200601K1\_7



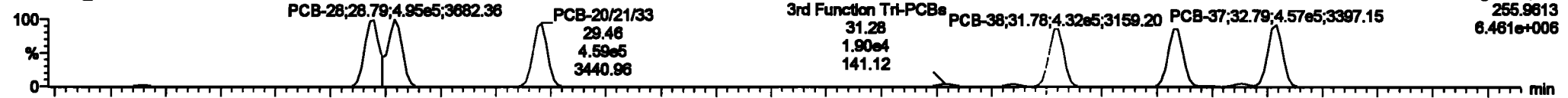
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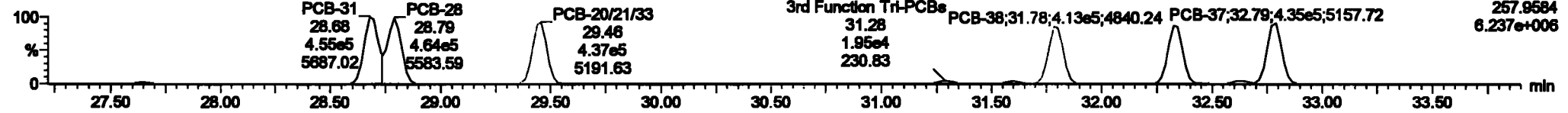
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PCB-34

200601K1\_7



200601K1\_7

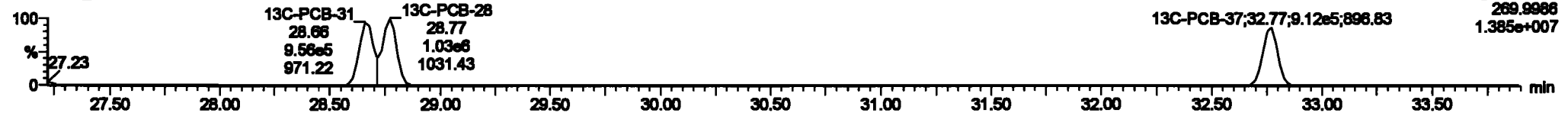


13C-PCB-28

200601K1\_7

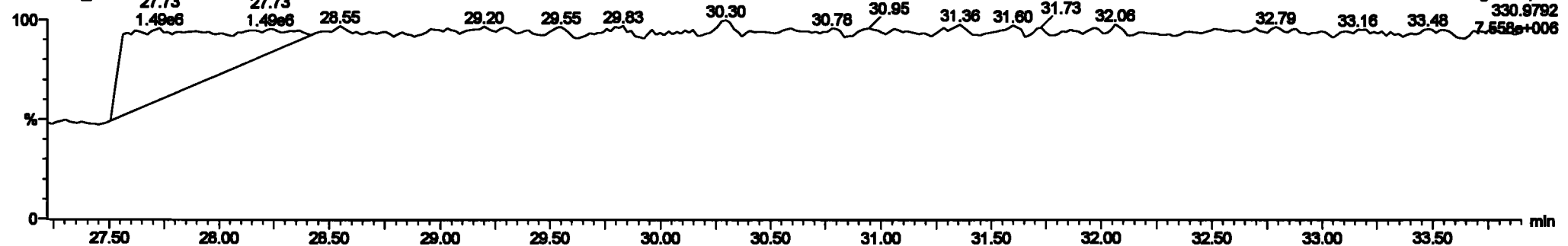


200601K1\_7



PFK3d

200601K1\_7

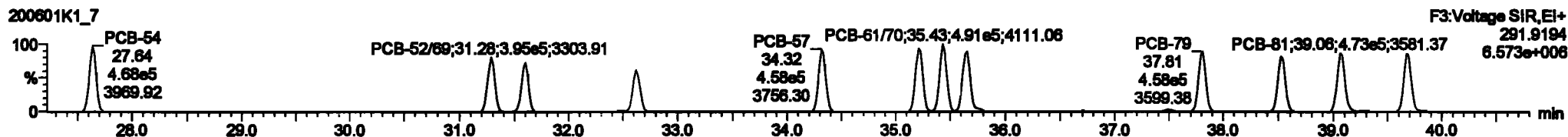
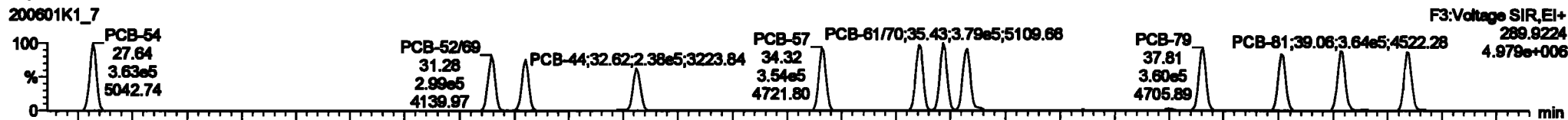


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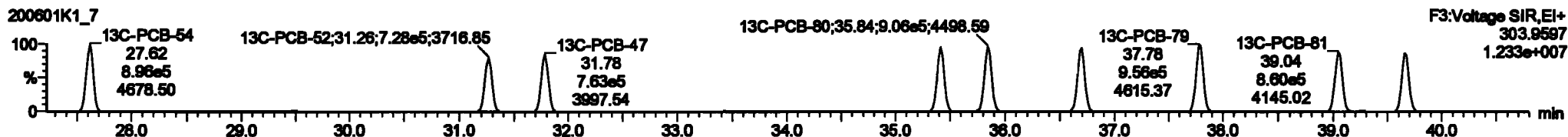
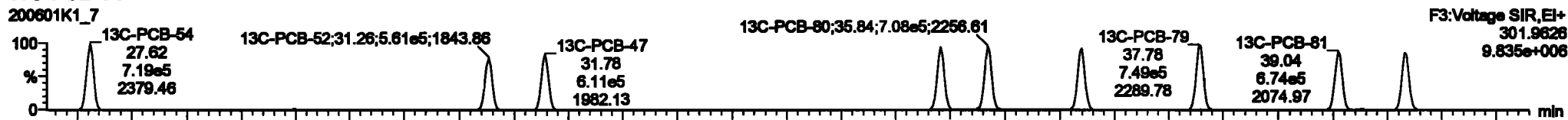
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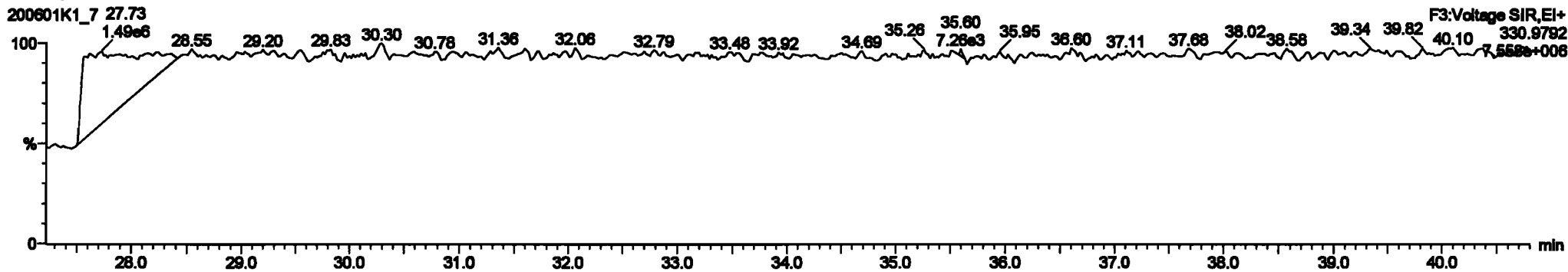
**PCB-54**



**13C-PCB-54**



**PFK3a**

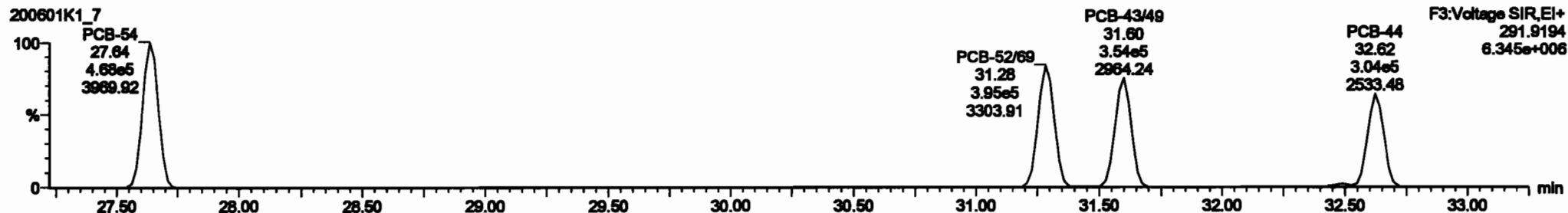


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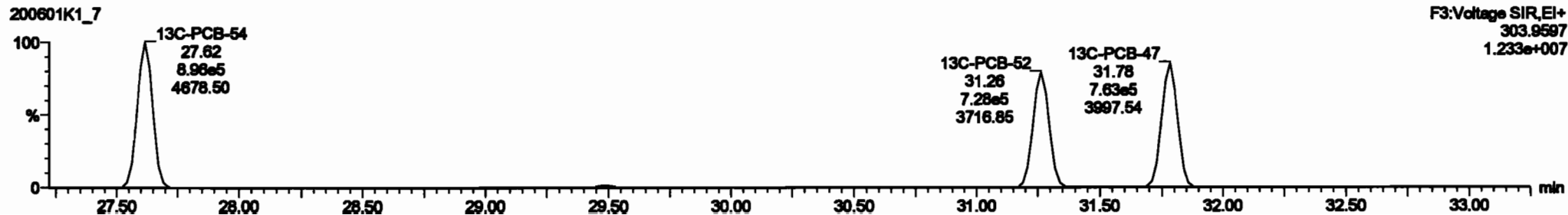
Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

PCB-50



13C-PCB-52





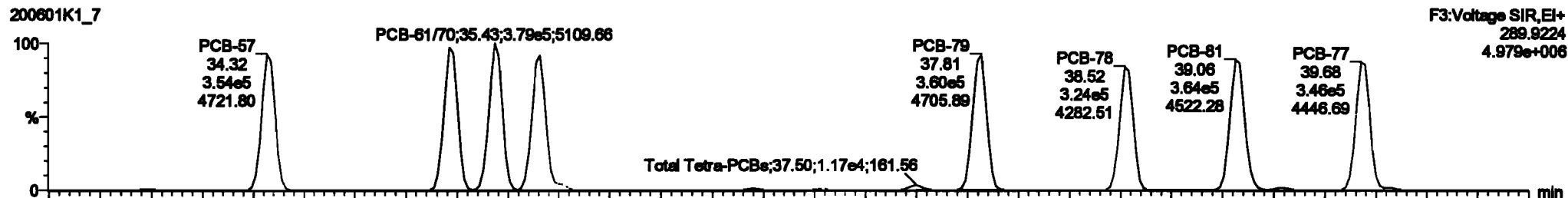
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

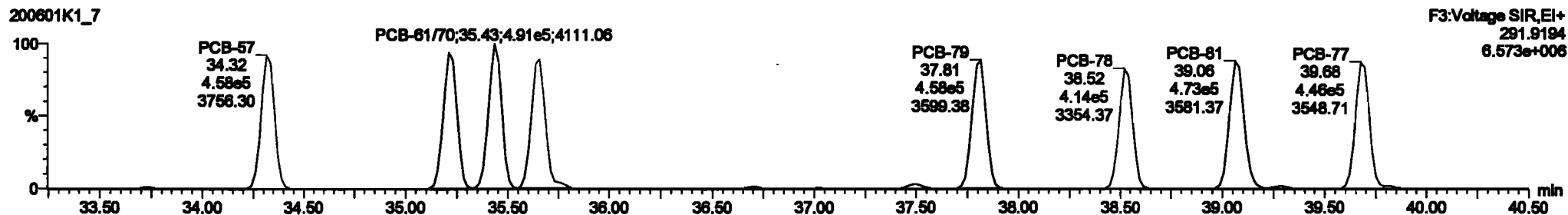
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PCB-68

200601K1\_7

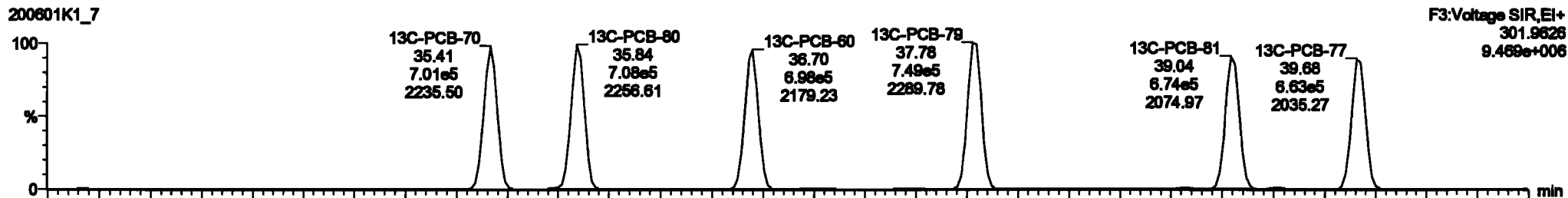


200601K1\_7

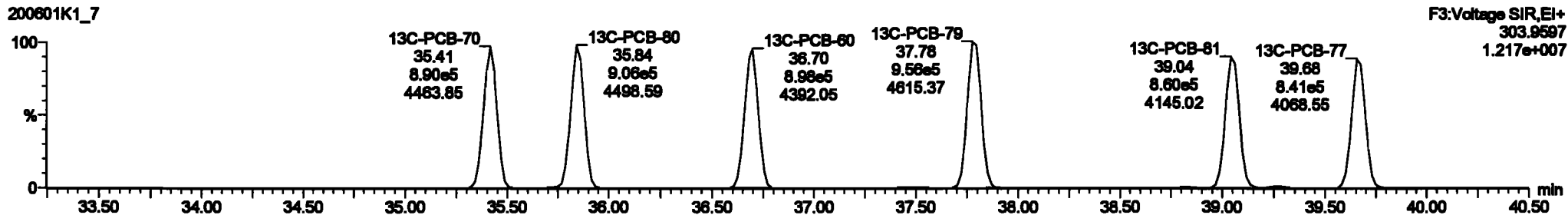


13C-PCB-60

200601K1\_7



200601K1\_7



#	Name	Temp	RA	Qty	SPC	Lot/Id	Prod.RT	RT	Prod.R	RT	Prod.Pd	Comp	DL	QMC
217	13C-PCB-138	0.88at	1.27	NO	1.0000	1.000	45.60	45.63	1.000	0.000	NO	100.0	100	0.120
218	13C-PCB-182	0.72at	0.47	NO	1.0000	1.000	45.43	45.43	0.000	0.000	NO	100.0	100	0.122
219	13C-PCB-205	7.84at	0.90	NO	1.0000	1.000	54.95	54.95	1.000	0.000	NO	100.0	100	0.148
220	13C-PCB-78	1.70at	0.70	NO	1.0000	1.000	37.80	37.70	1.000	1.000	NO	100.0	100	0.0815
221	13C-PCB-176	0.88at	0.44	NO	0.7000	1.000	45.80	45.80	0.000	0.000	NO	100.0	100	0.128
222	13C-PCB-78	1.70at	0.70	NO	1.0021	1.000	37.70	37.70	0.000	0.000	NO	102.7	100	0.0841
223	13C-PCB-176	0.88at	0.44	NO	1.0000	1.000	45.87	45.88	0.000	0.000	NO	100.0	100	0.131
224	Total Micro-PCBs				1.0000	1.000	0.00	0.000	0.000	0.000	NO	100.0		0.0281 100.0
225	Total DI-PCBs				1.0000	1.000	0.00	0.000	0.000	0.000	NO	000.0		0.280 000.0
226	2nd Function TAP-PCBs				1.0000	1.000	0.00	0.000	0.000	0.000	NO	00.70		0.110 00.70
227	2nd Function TAP-PCBs				0.0000	1.000	0.00	0.000	0.000	0.000	NO	200.4		0.311 200.4
228	Total PCBs				4.0000	1.000	0.00	0.000	0.000	0.000	NO	100.0		0.000 100.0

#	Name	Prod.RT	RT	Lot/Temp	SPC	SPC	RA	Qty	QMC	Comp.
33	PCB-64	27.04	27.04	3.820at	4.880at	0.770	0.70	NO	47.874	47.874
34	PCB-6200	31.30	31.30	2.895at	3.891at	0.770	0.70	NO	48.220	48.220
40	PCB-4398	31.80	31.80	2.700at	3.520at	0.770	0.70	NO	48.317	48.317
46	PCB-44	32.80	32.80	2.570at	3.043at	0.770	0.70	NO	47.188	47.188
50	PCB-67	34.30	34.30	3.830at	4.577at	0.770	0.77	NO	43.838	43.838
64	PCB-74	35.20	35.21	3.730at	4.702at	0.770	0.70	NO	45.028	45.028
65	PCB-8180	35.43	35.43	3.700at	4.880at	0.770	0.77	NO	51.834	51.834
68	PCB-7088	35.62	35.60	3.891at	4.830at	0.770	0.70	NO	44.671	44.671



Dataset: Untitled

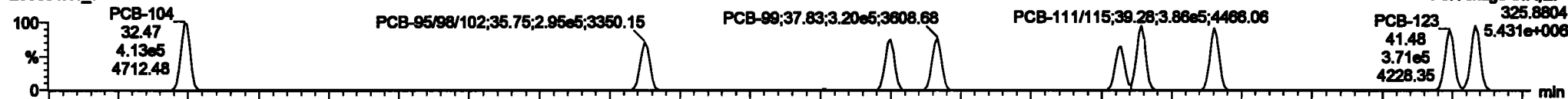
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

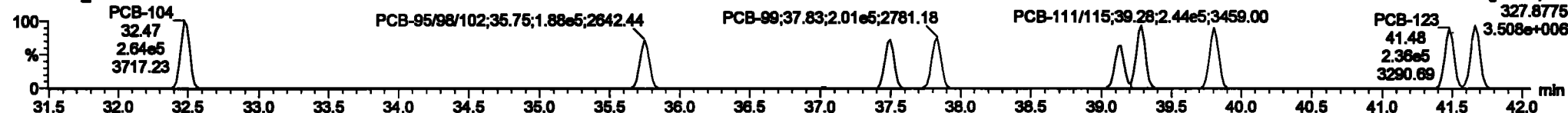
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**PCB-104**

200601K1\_7

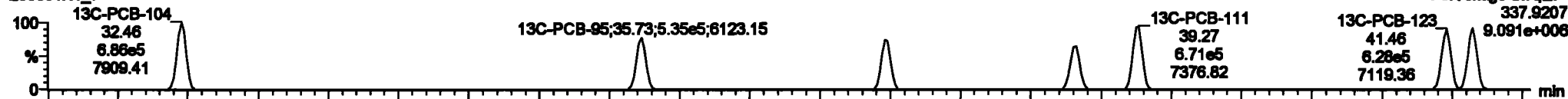


200601K1\_7

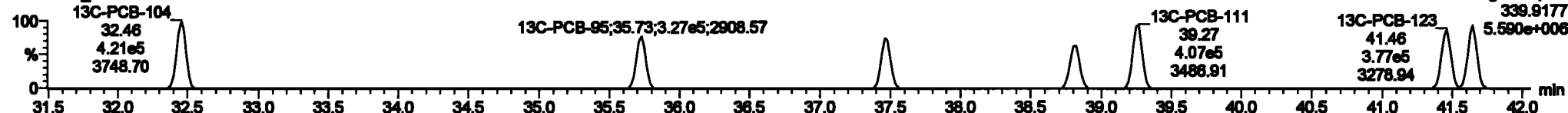


**13C-PCB-104**

200601K1\_7

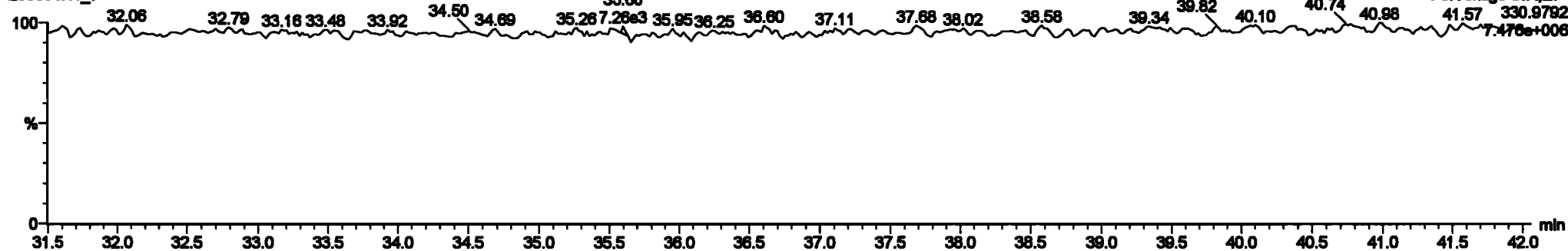


200601K1\_7



**PFK3b**

200601K1\_7



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

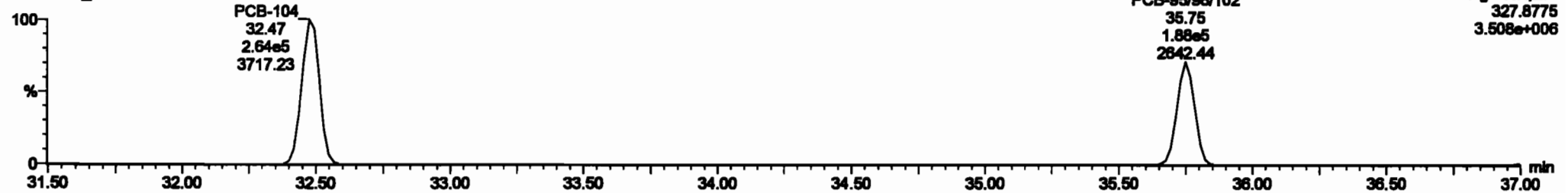
**PCB-96**

200601K1\_7



F3:Voltage SIR,EI+  
325.8804  
5.431e+006

200601K1\_7



F3:Voltage SIR,EI+  
327.8775  
3.508e+006

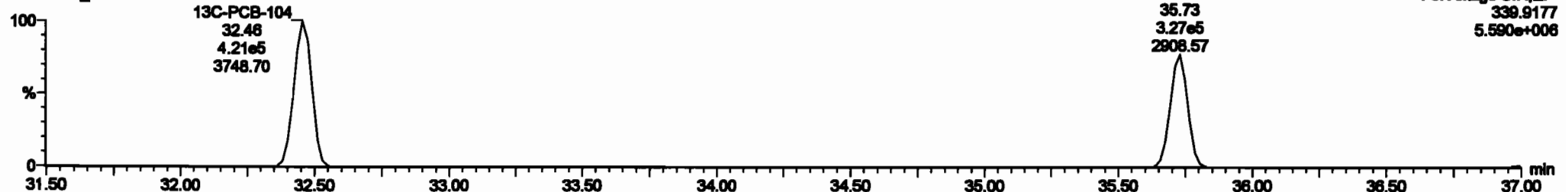
**13C-PCB-95**

200601K1\_7



F3:Voltage SIR,EI+  
337.9207  
9.091e+006

200601K1\_7



F3:Voltage SIR,EI+  
339.9177  
5.590e+006

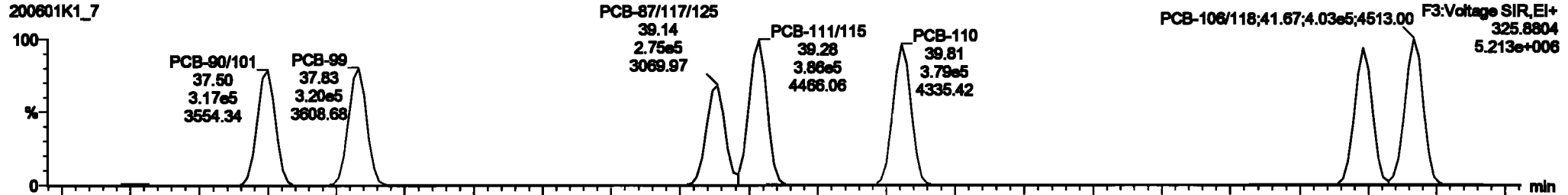
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

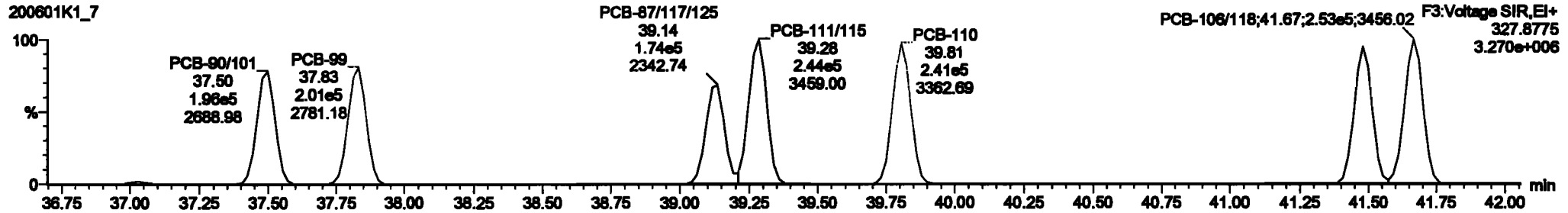
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PCB-119

200601K1\_7

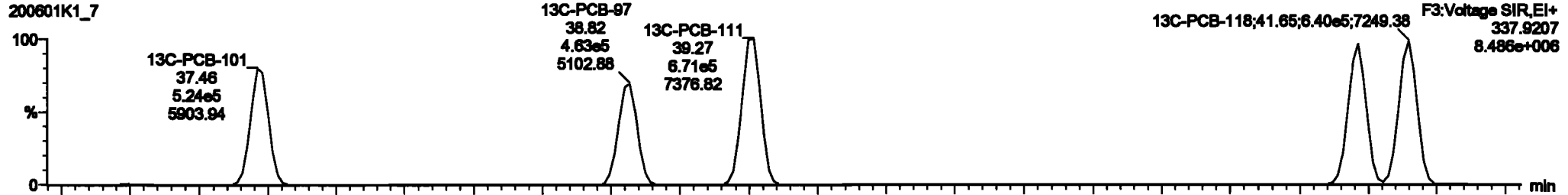


200601K1\_7

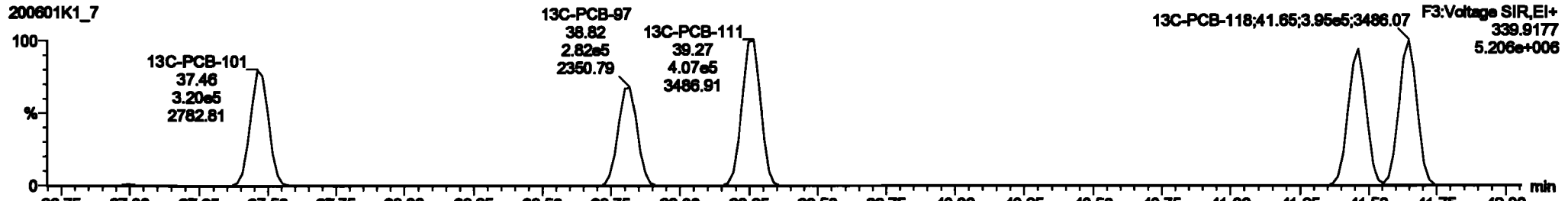


13C-PCB-111

200601K1\_7



200601K1\_7



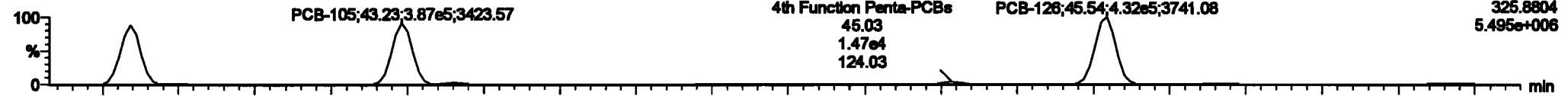
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

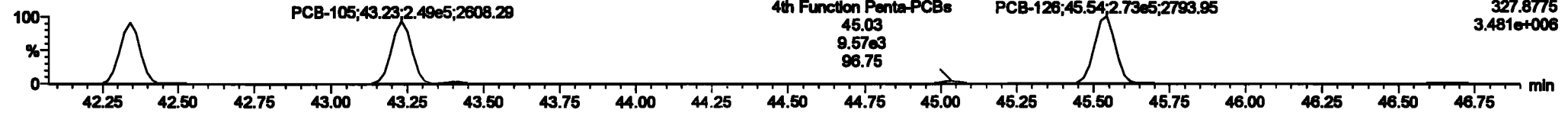
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**PCB-114**

200601K1\_7

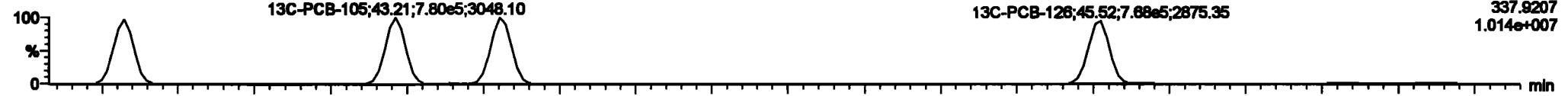


200601K1\_7

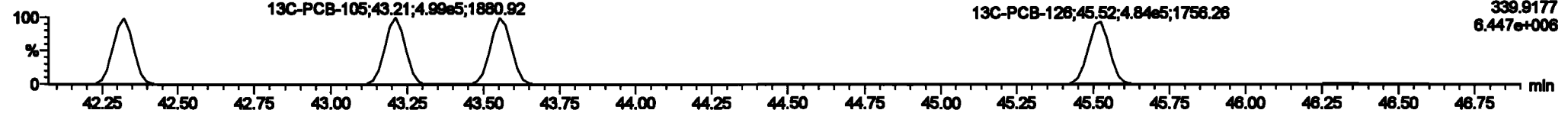


**13C-PCB-114**

200601K1\_7

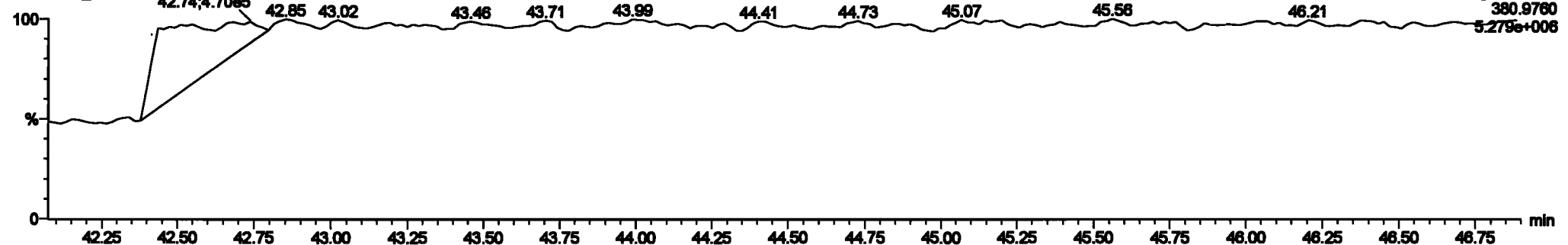


200601K1\_7



**PFK4a**

200601K1\_7



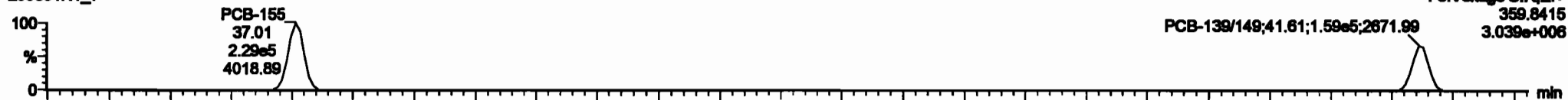
Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

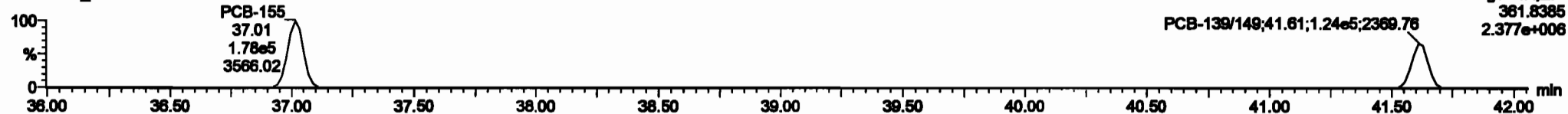
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**PCB-155**

200601K1\_7

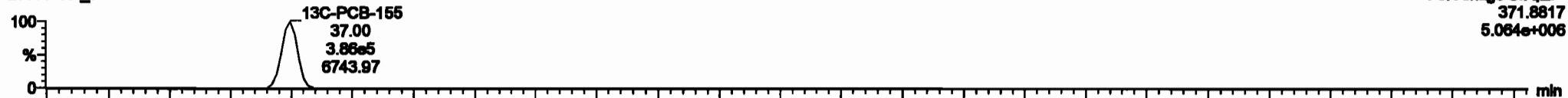


200601K1\_7

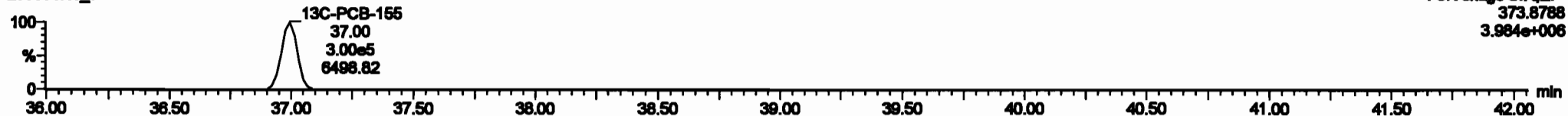


**13C-PCB-155**

200601K1\_7

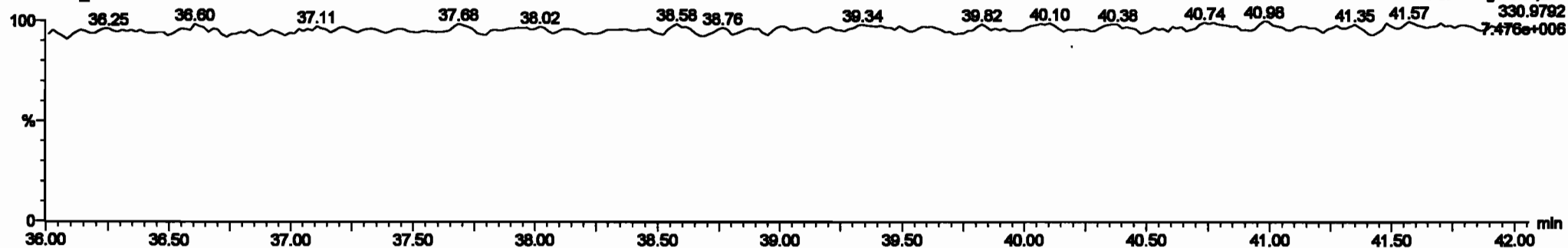


200601K1\_7



**PFK3c**

200601K1\_7

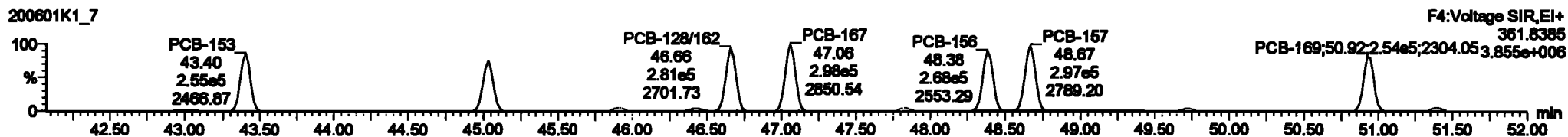
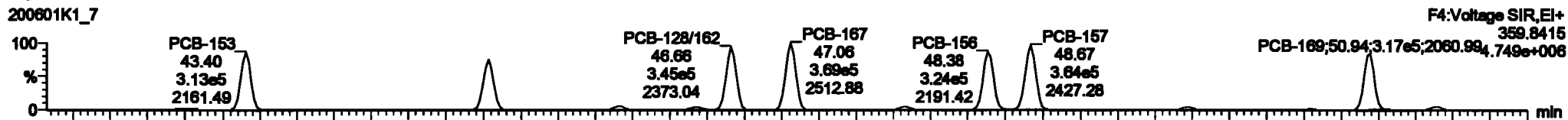


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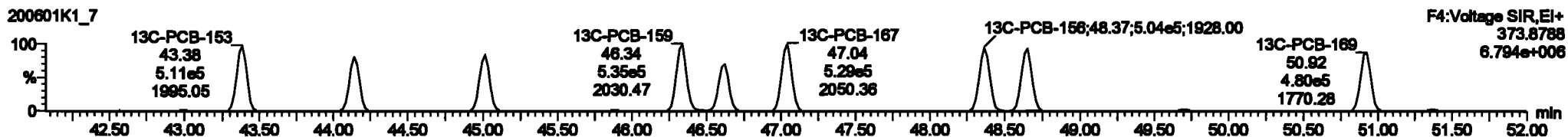
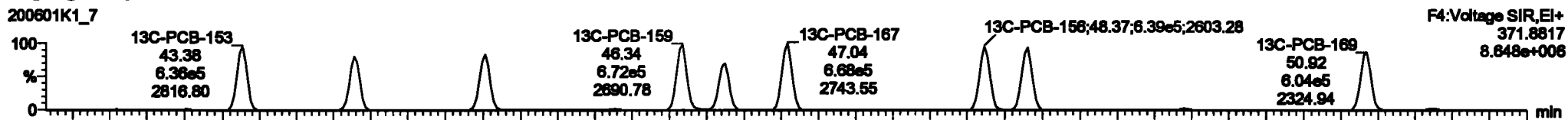
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

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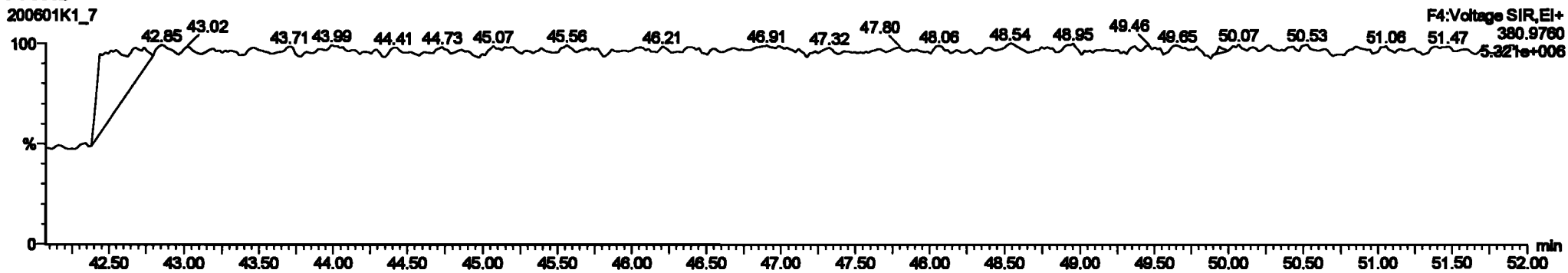
PCB-134/143



13C-PCB-153



PFK4b



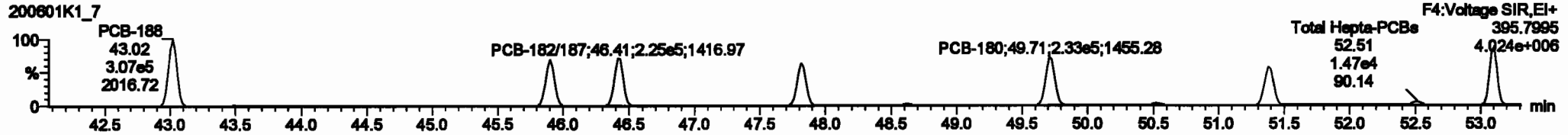
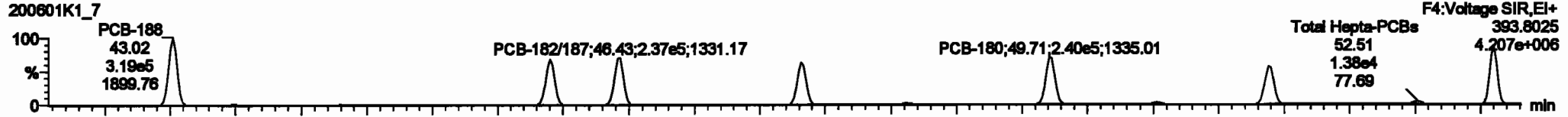


Dataset: Untitled

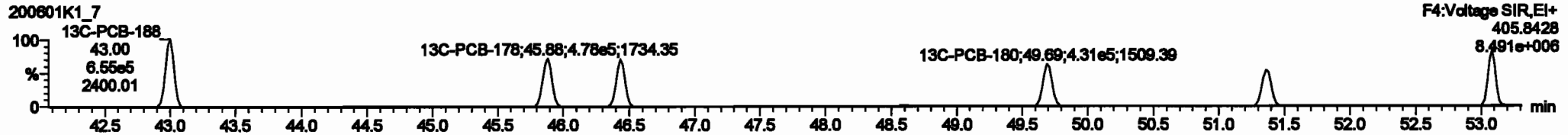
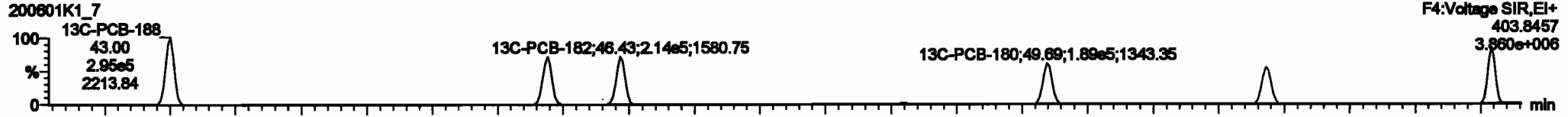
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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

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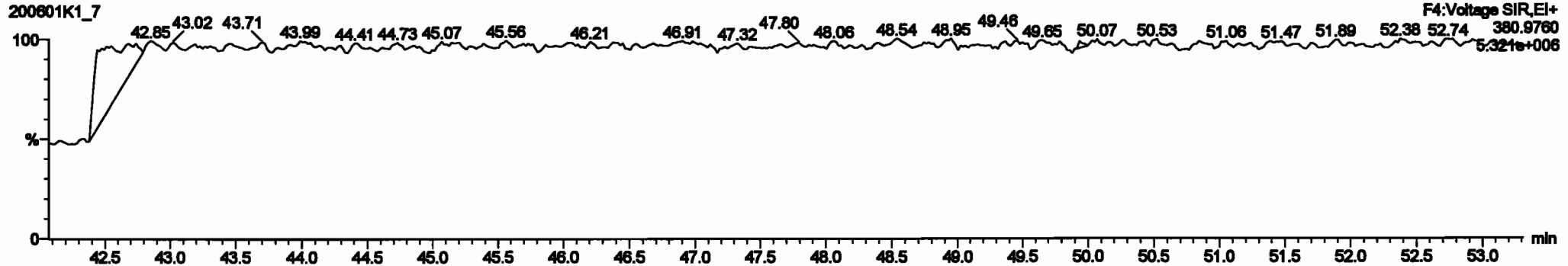
**PCB-188**



**13C-PCB-188**



**PFK4c**



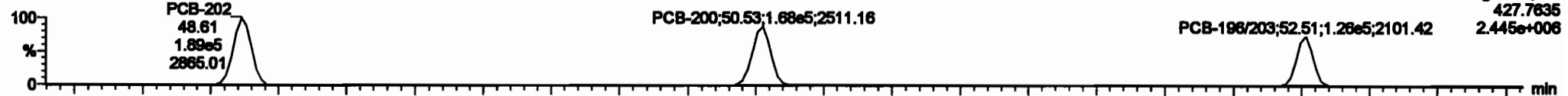
Dataset: Untitled

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Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

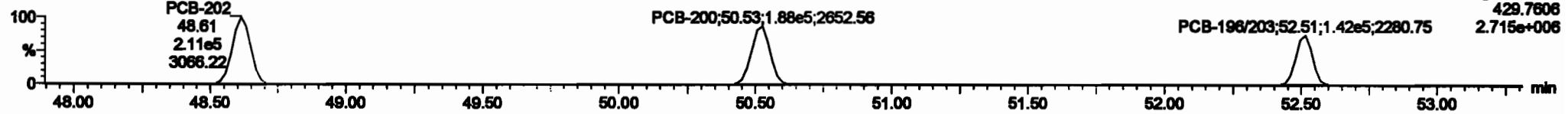
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**PCB-202**

200601K1\_7

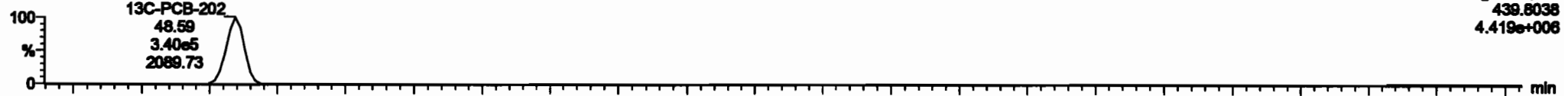


200601K1\_7

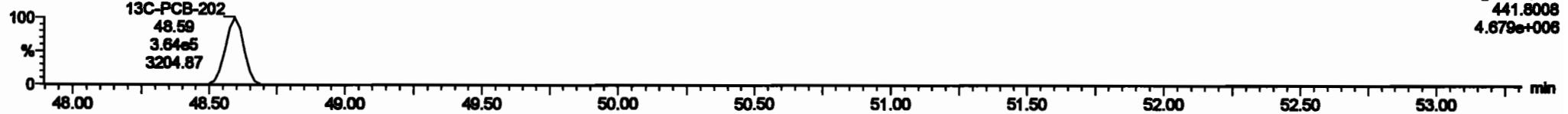


**13C-PCB-202**

200601K1\_7

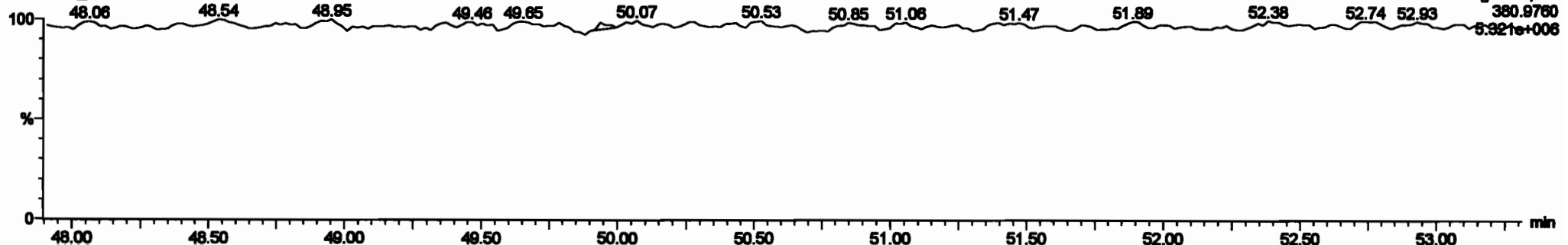


200601K1\_7



**PFK4d**

200601K1\_7



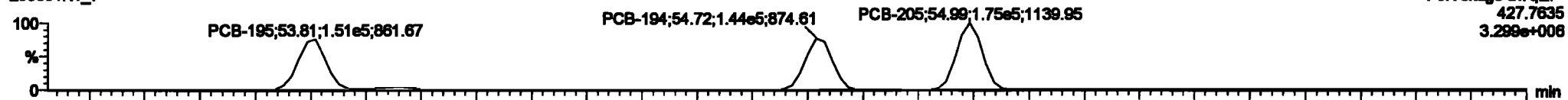
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

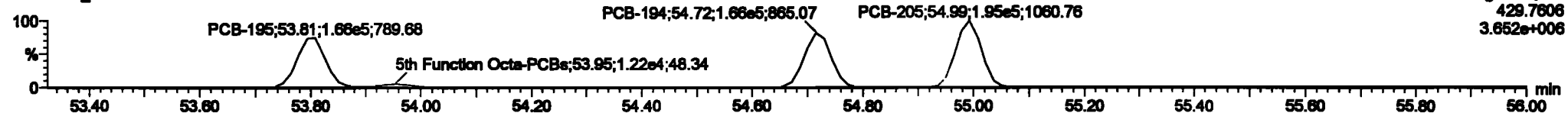
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**PCB-195**

200601K1\_7

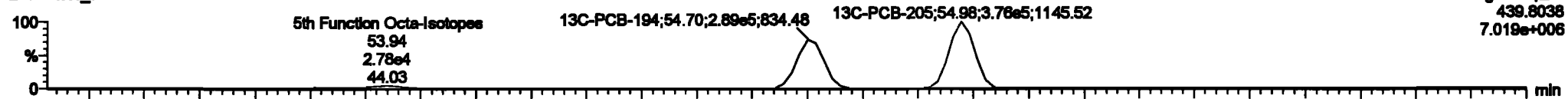


200601K1\_7

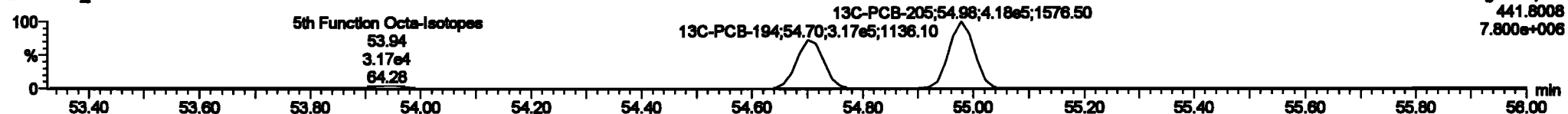


**13C-PCB-194**

200601K1\_7

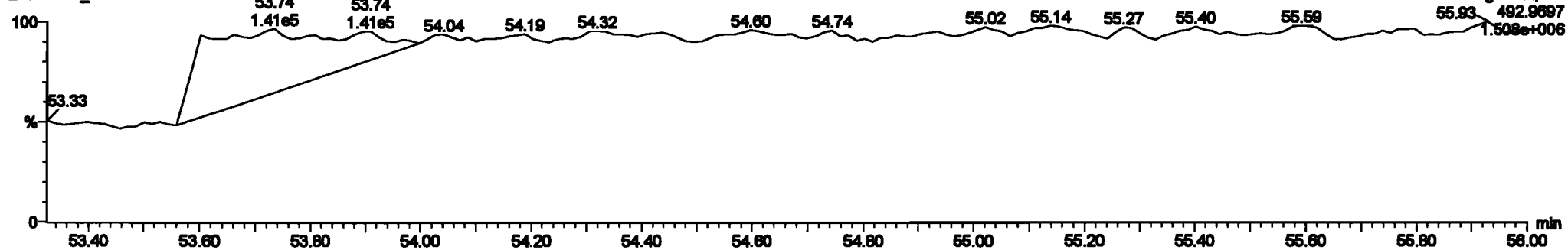


200601K1\_7



**PFK5a**

200601K1\_7



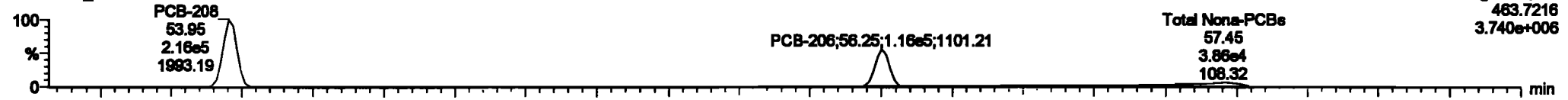
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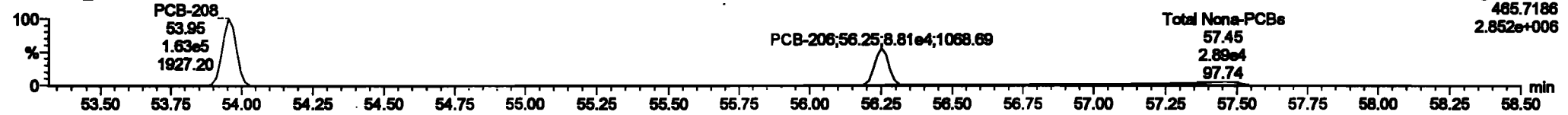
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**PCB-208**

200601K1\_7

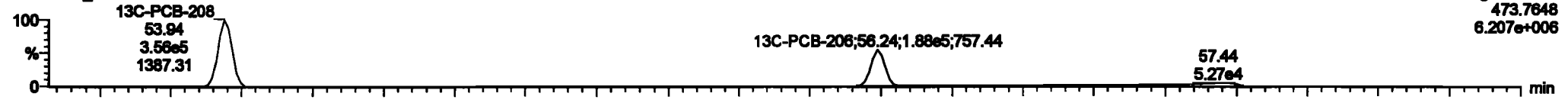


200601K1\_7

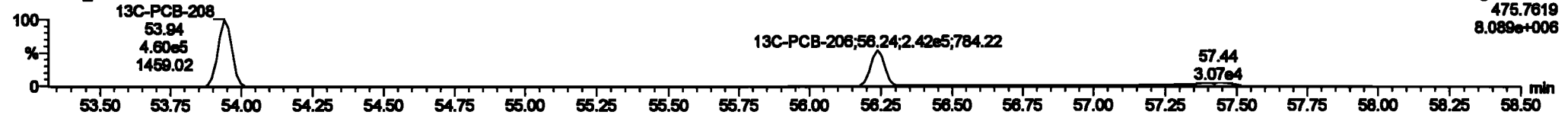


**13C-PCB-208**

200601K1\_7

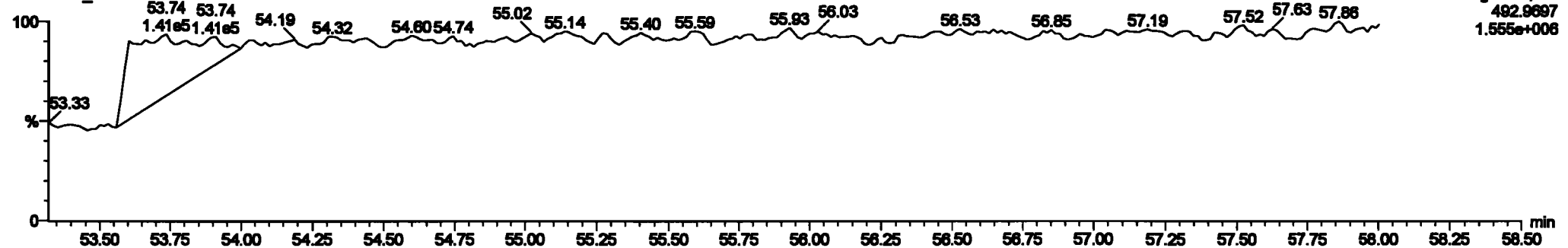


200601K1\_7



**PFK5**

200601K1\_7



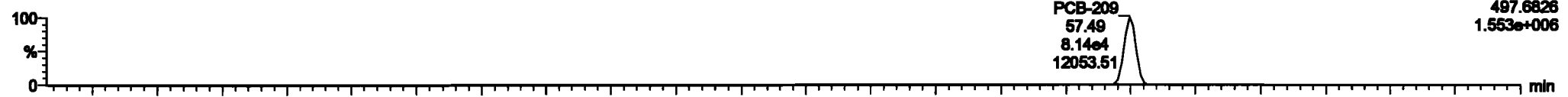
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Last Altered: Tuesday, June 02, 2020 10:33:30 Pacific Daylight Time  
Printed: Tuesday, June 02, 2020 10:35:13 Pacific Daylight Time

Name: 200601K1\_7, Date: 01-Jun-2020, Time: 18:21:53, ID: SS200601K1-1 PCB 209 SS 19G2612, Description: PCB 209 SS 19G2612

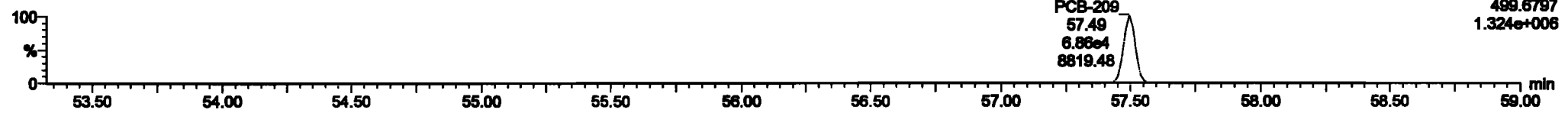
PCB-209

200601K1\_7



F5:Voltage SIR,EI+  
497.6826  
1.553e+006

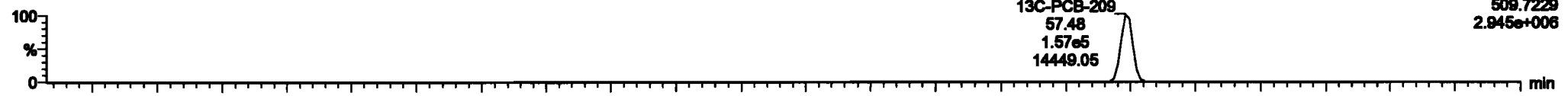
200601K1\_7



F5:Voltage SIR,EI+  
498.6797  
1.324e+006

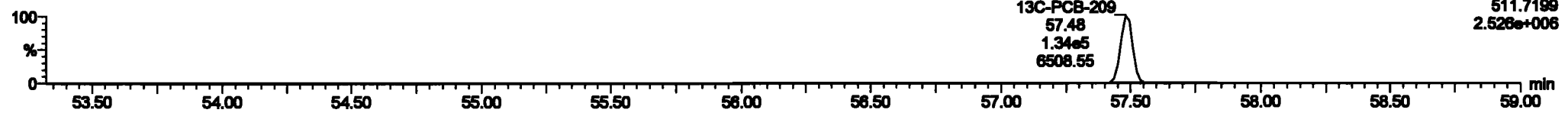
13C-PCB-209

200601K1\_7



F5:Voltage SIR,EI+  
509.7229  
2.945e+006

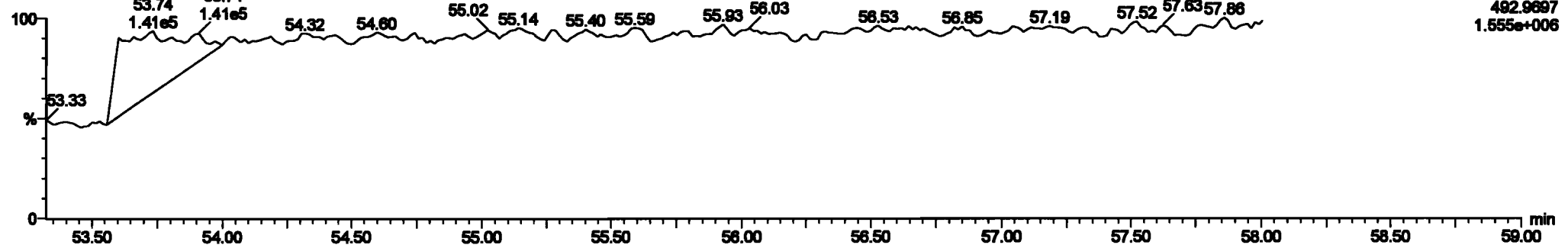
200601K1\_7



F5:Voltage SIR,EI+  
511.7199  
2.526e+006

PFK5b

200601K1\_7



F5:Voltage SIR,EI+  
492.9697  
1.555e+006