



June 11, 2020

**Vista Work Order No. 2000947**

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 28, 2020 under your Project Name 'Gasco PDI'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at [mmaier@vista-analytical.com](mailto:mmaier@vista-analytical.com).

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier  
Laboratory Director



*Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.*

## **Vista Work Order No. 2000947**

### **Case Narrative**

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

Eight sediment samples and two QC water samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The EPA Method 1613 analyses for the sediment samples were assigned to Vista Work Order No. 2000945. The EPA method 1668 analysis of sample "PDI-146SC-A-00-01-200426" was assigned to Vista Work Order No. 2000974.

#### **Analytical Notes:**

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

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

##### **Holding Times**

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

##### **Quality Control**

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above 1/2 the quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

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

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# Sample Inventory Report

<b>Vista Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled</b>	<b>Received</b>	<b>Components/Containers</b>
2000947-01	PDI-FB-2004261231	26-Apr-20 12:30	28-Apr-20 09:04	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L
2000947-02	PDI-RB-2004261300	26-Apr-20 13:00	28-Apr-20 09:04	Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L



## **ANALYTICAL RESULTS**

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Aqueous Sample Size: 1.00 L		QC Batch: B0E0092 Date Extracted: 12-May-2020 10:06		Lab Sample: B0E0092-BLK1 Date Analyzed: 09-Jun-20 14:04 Column: ZB-5MS				
Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.647			IS 13C-2,3,7,8-TCDD	85.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.694			13C-1,2,3,7,8-PeCDD	85.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.867			13C-1,2,3,4,7,8-HxCDD	84.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.904			13C-1,2,3,6,7,8-HxCDD	81.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	1.11			13C-1,2,3,7,8,9-HxCDD	81.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	2.30			13C-1,2,3,4,6,7,8-HpCDD	73.3	23 - 140	
OCDD	17.1			J	13C-OCDD	56.0	17 - 157	
2,3,7,8-TCDF	ND	0.446			13C-2,3,7,8-TCDF	80.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.606			13C-1,2,3,7,8-PeCDF	89.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.566			13C-2,3,4,7,8-PeCDF	88.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.679			13C-1,2,3,4,7,8-HxCDF	83.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.650			13C-1,2,3,6,7,8-HxCDF	81.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.679			13C-2,3,4,6,7,8-HxCDF	85.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	1.09			13C-1,2,3,7,8,9-HxCDF	81.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	1.23			13C-1,2,3,4,6,7,8-HpCDF	75.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	1.33			13C-1,2,3,4,7,8,9-HpCDF	77.5	26 - 138	
OCDF	ND	1.37			13C-OCDF	57.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.4	35 - 197	
					<b>Toxic Equivalent Quotient (TEQ) Data (pg/L)</b>			
					TEQMinWHO2005Dioxin 0.00513			
<b>TOTALS</b>								
Total TCDD	ND	0.647						
Total PeCDD	ND	0.694						
Total HxCDD	ND	1.11						
Total HpCDD	ND	2.30						
Total TCDF	ND	0.446						
Total PeCDF	ND	0.606						
Total HxCDF	ND	1.09						
Total HpCDF	ND	1.33						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Aqueous Sample Size: 1.00 L		QC Batch: B0E0092 Date Extracted: 12-May-2020 10:06		Lab Sample: B0E0092-BS1 Date Analyzed: 09-Jun-20 11:45 Column: ZB-5MS			
Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	183	200	91.4	67 - 158	IS 13C-2,3,7,8-TCDD	93.5	20 - 175
1,2,3,7,8-PeCDD	930	1000	93.0	70 - 142	13C-1,2,3,7,8-PeCDD	91.1	21 - 227
1,2,3,4,7,8-HxCDD	950	1000	95.0	70 - 164	13C-1,2,3,4,7,8-HxCDD	87.7	21 - 193
1,2,3,6,7,8-HxCDD	985	1000	98.5	76 - 134	13C-1,2,3,6,7,8-HxCDD	82.3	25 - 163
1,2,3,7,8,9-HxCDD	951	1000	95.1	64 - 162	13C-1,2,3,7,8,9-HxCDD	84.7	21 - 193
1,2,3,4,6,7,8-HpCDD	986	1000	98.6	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	77.7	26 - 166
OCDD	1980	2000	98.9	78 - 144	13C-OCDD	63.2	13 - 199
2,3,7,8-TCDF	198	200	99.2	75 - 158	13C-2,3,7,8-TCDF	87.8	22 - 152
1,2,3,7,8-PeCDF	958	1000	95.8	80 - 134	13C-1,2,3,7,8-PeCDF	93.2	21 - 192
2,3,4,7,8-PeCDF	948	1000	94.8	68 - 160	13C-2,3,4,7,8-PeCDF	94.3	13 - 328
1,2,3,4,7,8-HxCDF	989	1000	98.9	72 - 134	13C-1,2,3,4,7,8-HxCDF	89.4	19 - 202
1,2,3,6,7,8-HxCDF	993	1000	99.3	84 - 130	13C-1,2,3,6,7,8-HxCDF	85.4	21 - 159
2,3,4,6,7,8-HxCDF	981	1000	98.1	70 - 156	13C-2,3,4,6,7,8-HxCDF	91.9	22 - 176
1,2,3,7,8,9-HxCDF	944	1000	94.4	78 - 130	13C-1,2,3,7,8,9-HxCDF	89.0	17 - 205
1,2,3,4,6,7,8-HpCDF	993	1000	99.3	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	81.0	21 - 158
1,2,3,4,7,8,9-HpCDF	1010	1000	101	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	79.9	20 - 186
OCDF	1960	2000	98.1	63 - 170	13C-OCDF	61.1	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	101	31 - 191

LCL-UCL - Lower control limit - upper control limit

**Sample ID: PDI-FB-2004261231** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: QC Water	Lab Sample: 2000947-01      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 0.981 L	QC Batch: B0E0092      Date Extracted: 12-May-2020 10:06
Date Collected: 26-Apr-2020 12:30		Date Analyzed : 09-Jun-20 15:37      Column: ZB-5MS

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.594			IS 13C-2,3,7,8-TCDD	96.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.658			13C-1,2,3,7,8-PeCDD	96.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.685			13C-1,2,3,4,7,8-HxCDD	90.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.670			13C-1,2,3,6,7,8-HxCDD	88.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.822			13C-1,2,3,7,8,9-HxCDD	87.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	2.26			13C-1,2,3,4,6,7,8-HpCDD	79.2	23 - 140	
OCDD	15.7			J, B	13C-OCDD	65.2	17 - 157	
2,3,7,8-TCDF	ND	0.367			13C-2,3,7,8-TCDF	94.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.407			13C-1,2,3,7,8-PeCDF	102	24 - 185	
2,3,4,7,8-PeCDF	ND	0.366			13C-2,3,4,7,8-PeCDF	104	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.516			13C-1,2,3,4,7,8-HxCDF	89.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.493			13C-1,2,3,6,7,8-HxCDF	86.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.523			13C-2,3,4,6,7,8-HxCDF	91.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.797			13C-1,2,3,7,8,9-HxCDF	86.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.827			13C-1,2,3,4,6,7,8-HpCDF	82.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.906			13C-1,2,3,4,7,8,9-HpCDF	79.4	26 - 138	
OCDF	ND	1.23			13C-OCDF	61.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	105	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/L)**

	TEQMinWHO2005Dioxin	0.00471
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<b>TOTALS</b>								
Total TCDD	ND	0.594						
Total PeCDD	ND	0.658						
Total HxCDD	ND	0.822						
Total HpCDD	ND	2.26						
Total TCDF	ND		0.396					
Total PeCDF	ND	0.407						
Total HxCDF	ND	0.797						
Total HpCDF	ND	0.906						

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

LCL-UCL- Lower control limit - upper control limit  
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

**Sample ID: PDI-RB-2004261300** **EPA Method 1613B**

<b>Client Data</b>	<b>Sample Data</b>	<b>Laboratory Data</b>
Name: Anchor QEA, LLC	Matrix: QC Water	Lab Sample: 2000947-02      Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 0.956 L	QC Batch: B0E0092      Date Extracted: 12-May-2020 10:06
Date Collected: 26-Apr-2020 13:00		Date Analyzed : 09-Jun-20 16:23      Column: ZB-5MS

Analyte	Conc. (pg/L)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.524			IS 13C-2,3,7,8-TCDD	86.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.576			13C-1,2,3,7,8-PeCDD	87.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.696			13C-1,2,3,4,7,8-HxCDD	83.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.703			13C-1,2,3,6,7,8-HxCDD	83.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.838			13C-1,2,3,7,8,9-HxCDD	83.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.73			13C-1,2,3,4,6,7,8-HpCDD	73.6	23 - 140	
OCDD	13.8			J, B	13C-OCDD	59.8	17 - 157	
2,3,7,8-TCDF	ND	0.344			13C-2,3,7,8-TCDF	81.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.358			13C-1,2,3,7,8-PeCDF	91.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.337			13C-2,3,4,7,8-PeCDF	92.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.452			13C-1,2,3,4,7,8-HxCDF	81.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.444			13C-1,2,3,6,7,8-HxCDF	80.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.466			13C-2,3,4,6,7,8-HxCDF	84.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.729			13C-1,2,3,7,8,9-HxCDF	81.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.792			13C-1,2,3,4,6,7,8-HpCDF	74.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.898			13C-1,2,3,4,7,8,9-HpCDF	72.5	26 - 138	
OCDF	ND	1.52			13C-OCDF	58.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.6	35 - 197	

**Toxic Equivalent Quotient (TEQ) Data (pg/L)**

TEQMinWHO2005Dioxin      0.00414

<b>TOTALS</b>								
Total TCDD	ND	0.524						
Total PeCDD	ND	0.576						
Total HxCDD	ND	0.838						
Total HpCDD	ND	1.73						
Total TCDF	ND		0.277					
Total PeCDF	ND	0.358						
Total HxCDF	ND	0.729						
Total HpCDF	ND	0.898						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

## DATA QUALIFIERS & ABBREVIATIONS

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

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

### Vista Analytical Laboratory Certifications

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

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

## NELAP Accredited Test Methods

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

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

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



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

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

**ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY**

2000947

**COC ID:** VISTA-20200426-095509  
**Sample Custodian:** SN  
**Lab:** VISTA

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

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-FB-2004261231	FB	WQ	04/26/2020	12:30	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
002	PDI-RB-2004261300	RB	WQ	04/26/2020	13:00	2	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
* 003	PDI-146SC-A-00-01-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans *	E1613B	7	4°C
								PCB Congeners *	E1668A	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 004	PDI-146SC-A-01-02-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 005	PDI-146SC-A-02-03-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 006	PDI-146SC-A-03-04-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 007	PDI-146SC-A-04-05-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
* 008	PDI-146SC-A-05-06-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C

Comment: \* WO# 2000945  
\* WO# 2000974

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
Print Name: Sasha Norwood	Print Name: William R Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company: VAI	Company:	Company:	Company:	Company:
Date/Time: 4/27/20 12:30	Date/Time: 4-28-20 09:04	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**

2000947

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

Project: Gasco PDI  
Client: NW Natural

COC ID: VISTA-20200426-095509  
Sample Custodian: SN  
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative	
* 008	PDI-146SC-A-05-06-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>					
									Total solids (VISTA)	SM2540G	7	4°C
* 009	PDI-146SC-A-06-07-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>					
									Dioxin/Furans	E1613B	7	4°C
									Total solids (VISTA)	SM2540G	7	4°C
* 010	PDI-146SC-A-07-08-200426	N	SE	04/26/2020	8:53	1	<input type="checkbox"/>					
									Dioxin/Furans	E1613B	7	4°C
									Total solids (VISTA)	SM2540G	7	4°C

Comment: \* WO# 2000945

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
4/27/20 1230	4-28-20 09:04				

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

Page # 1 of 1

 Vista Work Order #: 2000947 TAT std

Samples Arrival:	Date/Time <u>4/28/20 09:04</u>		Initials: <u>WWS</u>		Location: <u>UR-2</u>		
	Shelf/Rack: <u>N/A</u>						
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C:	<u>3.4</u> (uncorrected)	Probe used: Y <input checked="" type="checkbox"/> (N)			Thermometer ID: <u>IR-3</u>		
Temp °C:	<u>3.4</u> (corrected)						

	YES	NO	NA		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Airbill <u>3 of 3 1 of 3</u> Trk # <u>7703 3190 0431</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain	<input checked="" type="checkbox"/> Return	<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Logged In:	Date/Time <u>04/28/20 1109</u>		Initials: <u>WWS</u>		Location: <u>UR-2</u>		
	Shelf/Rack: <u>G-1 B-1</u>						
COC Anomaly/Sample Acceptance Form completed?					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Page # 1 of 1

 Vista Work Order #: 2000947 TAT std

<b>Samples Arrival:</b>	<b>Date/Time</b> 4/28/20 09:04	<b>Initials:</b> WWS	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> NA
<b>Delivered By:</b>	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac
		<input type="radio"/> GLS	<input type="radio"/> DHL
		<input type="radio"/> Hand Delivered	<input type="radio"/> Other
<b>Preservation:</b>	<input checked="" type="radio"/> Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
	<input type="radio"/> None		
<b>Temp °C:</b> 4.3 (uncorrected)	<b>Probe used:</b> Y / <input checked="" type="radio"/> N		<b>Thermometer ID:</b> IR3
<b>Temp °C:</b> 4.3 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>Fof 3</u> Trk # <u>7703 3190 1482</u>	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
			<input checked="" type="checkbox"/> Return
			<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
<b>Logged In:</b>	<b>Date/Time</b> 04/28/20 1109	<b>Initials:</b> WWS	<b>Location:</b> WR-2
			<b>Shelf/Rack:</b> B-1
COC Anomaly/Sample Acceptance Form completed?			
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:



# CoC/Label Reconciliation Report WO# 2000947

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000947-01	A PDI-FB-2004261231	<input checked="" type="checkbox"/>	26-Apr-20 12:30	<input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
2000947-01	B PDI-FB-2004261231	<input checked="" type="checkbox"/>	26-Apr-20 12:30	<input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
2000947-02	A PDI-RB-2004261300	<input checked="" type="checkbox"/>	26-Apr-20 13:00	<input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous
2000947-02	B PDI-RB-2004261300	<input checked="" type="checkbox"/>	26-Apr-20 13:00	<input checked="" type="checkbox"/>	Amber Glass NM Bottle, 1L	Aqueous

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

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

Verified by/Date: LA 04/28/2020

## **EXTRACTION INFORMATION**

Process Sheet  
**Workorder: 2000947**

Prep Expiration: 2021-04-26  
 Client: Anchor QEA, LLC

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

TAT: 28

Method: **1613 Full List**  
 Matrix: **Aqueous**  
 Client Matrix: **QC Water**  
 Also run: **Percent Solids**

Prep Batch: B0E0092

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

Initial Sequence: S0F0025

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000947-01	<u>A</u> <input checked="" type="checkbox"/>	PDI-FB-2004261231	28-Apr-20 09:04	WR-2 B-1	
2000947-02	<u>↓</u> <input checked="" type="checkbox"/>	PDI-RB-2004261300	28-Apr-20 09:04	WR-2 B-1	

**WO Comments: One dup required per batch of 20 samples**

Pre-Prep Check Out: \_\_\_\_\_ Prep Check Out: AZ 05/12/20 Prep Reconciled Initials/Date: AZ 05/12/20  
 Pre-Prep Check In: \_\_\_\_\_ Prep Check In: NA Spike Reconciled Initials/Date: ELU 05/12/20  
 VialBoxID: toxic



PREPARATION BENCH SHEET

B0E0092

Matrix: Aqueous

Method: 1613 Full List

Method: 1613 2.3.7.8s Only

Method: 1613 2.3.7.8-TCDD Only

Chemist: AZ

Prep Date/Time: 12-May-20

1006

Prepared using: HRMS - Separatory Funnel

VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B0E0092-BLK1	NA	NA	(1.000)	AZ 05/12/20	ME 05/14/20	NA	20 05/13/20	20 05/13/20	20 05/14/20	20 05/14/20
B0E0092-BS1	↓	↓	(1.000)	↓	↓	↓	↓	↓	↓	↓
2000947-01	1491.09	509.99	0.9811 ✓	↓	↓	↓	↓	↓	↓	↓
2000947-02	1465.41	509.46	0.9560 ✓	↓	↓	↓	↓	↓	↓	↓
2000982-01	1282.55	394.09	0.8885	↓	↓	↓	↓	↓	NA	↓
2000983-01	1263.82	394.86	0.8690	↓	↓	↓	↓	↓	↓	↓
2001014-01	1488.73	507.57	0.9812	↓	↓	↓	↓	↓	20 05/14/20	↓
2001019-01	1495.29	508.02	0.9873	↓	↓	↓	↓	↓	NA	↓
2001019-02	1506.37	505.25	1.0011	↓	↓	↓	↓	↓	↓	↓
2001021-01	1290.72	404.04	0.8867	↓	↓	↓	↓	↓	20 05/14/20	↓
2001023-01	1501.36	501.91	0.9995	↓	↓	↓	↓	↓	↓	↓

Ⓐ sample took longer on ABSG column 20 05/13/20

Ⓣ AZ 05/12/20

\* AZ 05/12/20

IS Name <u>V<sub>3</sub></u>	NS Name <u>V<sub>1</sub></u>	CRS Name <u>V<sub>1</sub></u>	RS Name <u>V<sub>1</sub></u>	Cycle Time	APP <u>SEFUN</u> SOX SDS	Check Out: Chemist/Date: <u>AZ 05/12/20</u>
PCDD/F <u>19L2301, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time: <u>NA</u>	SOLV: <u>DCM</u>	Check In: Chemist/Date: <u>NA 05/12/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time: <u>NA</u>	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH _____	PAH _____	PAH _____	PAH _____		Final Volume: <u>20mL</u>	
					<u>C14</u>	

Comments: Assume 1 g = 1 mL

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na<sub>2</sub>SO<sub>4</sub> to remove water
- 4 = Precipitate present at Final Volume

- 5 = Sample Centrifuged to remove particulate
- 6 = Added boiling chips to separatory funnel
- 7 = Sample emulsed during shakeout

<b>Analyst:</b> AZ	<b>Test Code:</b> %Moist/%Solids	Data Entry Verified by: (Initial and Date) <i>K 05/15/20</i>
<b>Analyte:</b>	<b>Units:</b> %	
Dried at 110°C +/- 5°C		
<b>Oven ID:</b> 01 <u>02</u>		

Inst HRMS-9 Date/Time IN: 05/12/20 0948 Date/Time OUT: 05/13/20 1308

Particle Size	SampID	SampType	Intial and Date:		G		H	I	K L M			N O		P
			AZ 05/12/20	JC 05/13/20	Dry Pan and Sample Weight (g)	Wet Pan and Sample Weight (g)			Visual Inspection	Cl-	pH Before	pH After	Acid Added	
	2000947-01	A	Sample	1.3100	13.5500	1.3100	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2000947-02	A	Sample	1.2900	18.4200	1.2900	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2000982-01	A	Sample	1.3000	20.9900	1.3000	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2000983-01	A	Sample	1.3200	20.7000	1.3200	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2001014-01	A	Sample	1.3100	8.5300	1.3800	0.0700	0.97	CLEAR	0	6	NA	NA	Y
	2001019-01	A	Sample	1.2900	11.6500	1.2900	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2001019-02	A	Sample	1.3100	9.7300	1.3100	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2001021-01	A	Sample	1.3100	22.9700	1.4700	0.1600	0.74	CLEAR	0	1	NA	NA	Y
	2001023-01	A	Sample	1.3100	12.5200	1.3200	0.0100	0.09	CLEAR	0	5	NA	NA	Y

\*Sample homogenized in sample container unless otherwise noted.

D2216-90

BATCH ID B0E0095

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

Date/Time IN: 05/12/20 09:48  
Date/Time OUT: 05/13/20 13:08

Inst **HEMS-9**

Particle Size	SampleID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	AZ 05/12/20				Sample Homogenized*
			Pan Tare Wt. (gms)						Visual Inspection	Cl-	pH Before	pH After	
	2000947-01	Sample	1.31		19.55	1.31		Clear	0	5			Y
	2000947-02	Sample	1.29		18.42	1.29		T	0	5			Y
	2000982-01	Sample	1.30		20.99	1.30			0	5			Y
	2000983-01	Sample	1.32		20.70	1.32			0	5			Y
	2001014-01	Sample	1.31		8.53	1.38			0	6			Y
	2001019-01	Sample	1.29		11.65	1.29			0	5			Y
	2001019-02	Sample	1.31		9.73	1.31			0	5			Y
	2001021-01	Sample	1.31		22.97	1.47			0	1			Y
	2001023-01	Sample	1.31		12.52	1.82			0	5			Y

\*Sample homogenized in sample container unless otherwise noted.

Batch: B0E0092

Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000947-01	0.9811 ✓	NA	NA	20	12-May-20 10:06	AZK			QC Water	1613 Full List
2000947-02	0.956 ✓			20	12-May-20 10:06	AZK			QC Water	1613 Full List
2000982-01	0.8885 ✓			20	12-May-20 10:06	AZK			Effluent	1613 2,3,7,8-TCDD Only
2000983-01	0.869 ✓			20	12-May-20 10:06	AZK			Effluent	1613 2,3,7,8-TCDD Only
2001014-01	0.9812 ✓			20	12-May-20 10:06	AZK			Effluent	1613 Full List
2001019-01	0.9873 ✓			20	12-May-20 10:06	AZK			Wastewater	1613 2,3,7,8-TCDD Only
2001019-02	1.0011 ✓			20	12-May-20 10:06	AZK			Surface Water	1613 2,3,7,8-TCDD Only
2001021-01	0.8867 ✓			20	12-May-20 10:06	AZK			Aqueous	1613 Full List
2001023-01	0.9995 ✓			20	12-May-20 10:06	AZK			Treatment Water	1613 2,3,7,8s Only
<b>B0E0092-BLK1</b>	<b>1</b>			20	12-May-20 10:06	AZK				QC
<b>B0E0092-BS1</b>	<b>1</b>			20	12-May-20 10:06	AZK	18F1913 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) TL 05/14/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-5.qld

Last Altered: Wednesday, June 10, 2020 10:43:40 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 10:46:04 Pacific Daylight Time

*GRS 06/10/2020*

*CT 06/10/2020*

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

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

Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, 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	0.888	1.000	26.486		1.001				0.647	
2	2 1,2,3,7,8-PeCDD			NO	0.908	1.000	31.458		1.001				0.694	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	1.000	34.815		1.000				0.867	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	1.000	34.911		1.000				0.904	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	1.000	35.210		1.000				1.11	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	1.000	38.736		1.000				2.30	
7	7 OCDD	1.88e3	0.98	NO	0.914	1.000	41.717	41.72	1.000	1.000	17.115		3.32	17.1
8	8 2,3,7,8-TCDF			NO	0.751	1.000	25.582		1.001				0.446	
9	9 1,2,3,7,8-PeCDF			NO	0.893	1.000	30.160		1.001				0.606	
10	10 2,3,4,7,8-PeCDF			NO	0.935	1.000	31.162		1.001				0.566	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	1.000	33.931		1.000				0.679	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	1.000	34.059		1.000				0.650	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	1.000	34.669		1.001				0.679	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	1.000	35.561		1.000				1.09	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	1.000	37.356		1.001				1.23	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	1.000	39.278		1.000				1.33	
17	17 OCDF			NO	0.806	1.000	41.909		1.000				1.37	
18	18 13C-2,3,7,8-TCDD	8.40e5	0.76	NO	1.16	1.000	26.476	26.45	1.026	1.026	1718.3	85.9	1.94	
19	19 13C-1,2,3,7,8-PeCDD	6.16e5	0.64	NO	0.849	1.000	31.656	31.44	1.227	1.219	1716.8	85.8	3.40	
20	20 13C-1,2,3,4,7,8-HxCDD	4.33e5	1.28	NO	0.779	1.000	34.810	34.81	1.014	1.014	1691.2	84.6	5.54	
21	21 13C-1,2,3,6,7,8-HxCDD	5.45e5	1.27	NO	1.02	1.000	34.923	34.91	1.017	1.017	1629.9	81.5	4.25	
22	22 13C-1,2,3,7,8,9-HxCDD	4.81e5	1.23	NO	0.903	1.000	35.194	35.20	1.025	1.025	1620.0	81.0	4.78	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.32e5	1.07	NO	0.689	1.000	38.716	38.72	1.128	1.128	1465.9	73.3	4.27	
24	24 13C-OCDD	4.81e5	0.95	NO	0.652	1.000	41.737	41.72	1.216	1.215	2240.8	56.0	5.88	
25	25 13C-2,3,7,8-TCDF	1.01e6	0.77	NO	1.06	1.000	25.519	25.56	0.989	0.991	1615.1	80.8	2.71	
26	26 13C-1,2,3,7,8-PeCDF	8.89e5	1.59	NO	0.838	1.000	30.041	30.14	1.165	1.168	1788.9	89.4	4.03	
27	27 13C-2,3,4,7,8-PeCDF	8.60e5	1.55	NO	0.817	1.000	30.993	31.13	1.202	1.207	1776.9	88.8	4.13	
28	28 13C-1,2,3,4,7,8-HxCDF	5.55e5	0.50	NO	1.01	1.000	33.942	33.93	0.989	0.988	1675.2	83.8	5.79	
29	29 13C-1,2,3,6,7,8-HxCDF	6.25e5	0.51	NO	1.17	1.000	34.065	34.05	0.992	0.992	1628.2	81.4	5.00	
30	30 13C-2,3,4,6,7,8-HxCDF	5.78e5	0.53	NO	1.02	1.000	34.638	34.63	1.009	1.009	1718.6	85.9	5.70	
31	31 13C-1,2,3,7,8,9-HxCDF	4.62e5	0.50	NO	0.860	1.000	35.538	35.56	1.035	1.036	1633.7	81.7	6.78	

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-5.qld

Last Altered: Wednesday, June 10, 2020 10:43:40 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 10:46:04 Pacific Daylight Time

Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.83e5	0.41	NO	0.774	1.000	37.285	37.32	1.086	1.087	1504.8	75.2	4.00	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.66e5	0.42	NO	0.521	1.000	39.314	39.28	1.145	1.144	1550.3	77.5	5.94	
34	34 13C-OCDF	5.65e5	0.89	NO	0.746	1.000	41.909	41.91	1.221	1.221	2304.8	57.6	3.78	
35	35 37Cl-2,3,7,8-TCDD	3.41e5			1.04	1.000	26.507	26.48	1.028	1.027	779.22	97.4	0.529	
36	36 13C-1,2,3,4-TCDD	8.45e5	0.80	NO	1.00	1.000	25.890	25.80	1.000	1.000	2000.0	100	2.24	
37	37 13C-1,2,3,4-TCDF	1.19e6	0.78	NO	1.00	1.000	24.360	24.12	1.000	1.000	2000.0	100	2.87	
38	38 13C-1,2,3,4,6,9-HxCDF	6.58e5	0.51	NO	1.00	1.000	34.420	34.33	1.000	1.000	2000.0	100	5.83	
39	39 Total Tetra-Dioxins				0.888	1.000	24.620		0.000				0.393	
40	40 Total Penta-Dioxins				0.908	1.000	29.960		0.000				0.288	
41	41 Total Hexa-Dioxins				0.892	1.000	33.635		0.000				0.555	
42	42 Total Hepta-Dioxins				0.864	1.000	37.640		0.000				1.22	
43	43 Total Tetra-Furans				0.751	1.000	23.610		0.000				0.233	
44	44 1st Func. Penta-Furans				0.893	1.000	27.580		0.000				0.0986	
45	45 Total Penta-Furans				0.893	1.000	29.275		0.000				0.346	
46	46 Total Hexa-Furans				0.934	1.000	33.555		0.000				0.303	
47	47 Total Hepta-Furans				0.873	1.000	37.835		0.000				0.616	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-5.qld

Last Altered: Wednesday, June 10, 2020 10:43:40 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 10:46:04 Pacific Daylight Time

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

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

Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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



Dataset: U:\VG12.PRO\Results\200609R1\200609R1-5.qld

Last Altered: Wednesday, June 10, 2020 10:43:40 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 10:46:04 Pacific Daylight Time

Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, 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												

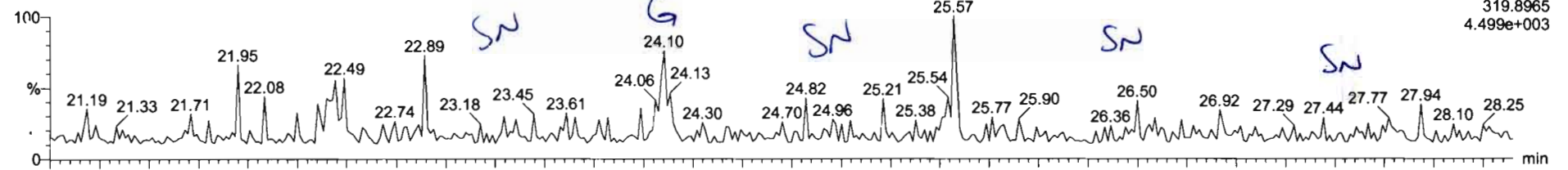
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Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

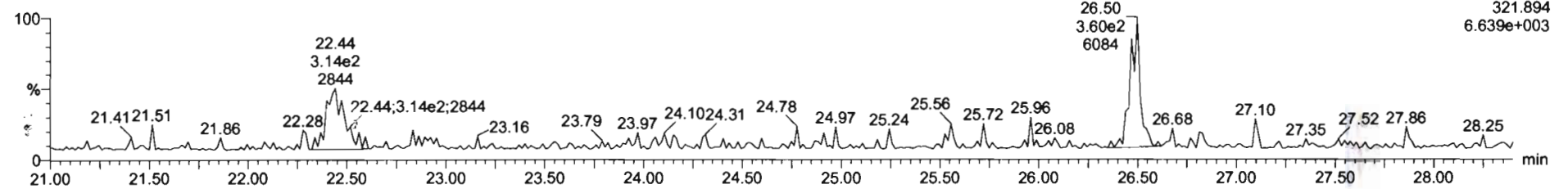
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2,3,7,8-TCDD

200609R1\_5

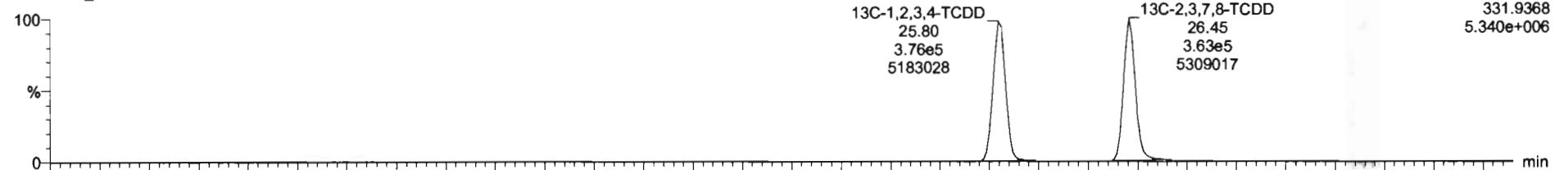


200609R1\_5

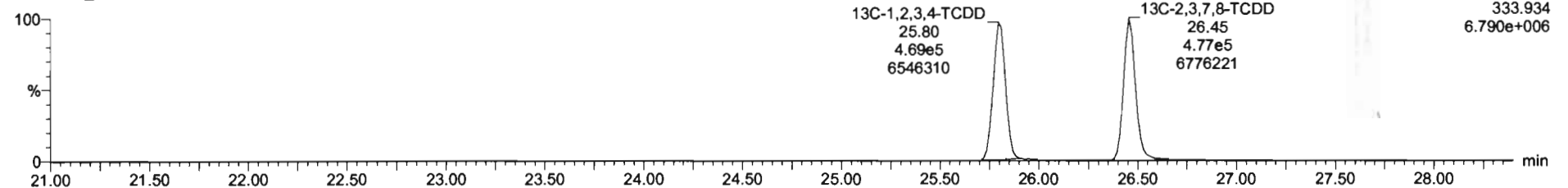


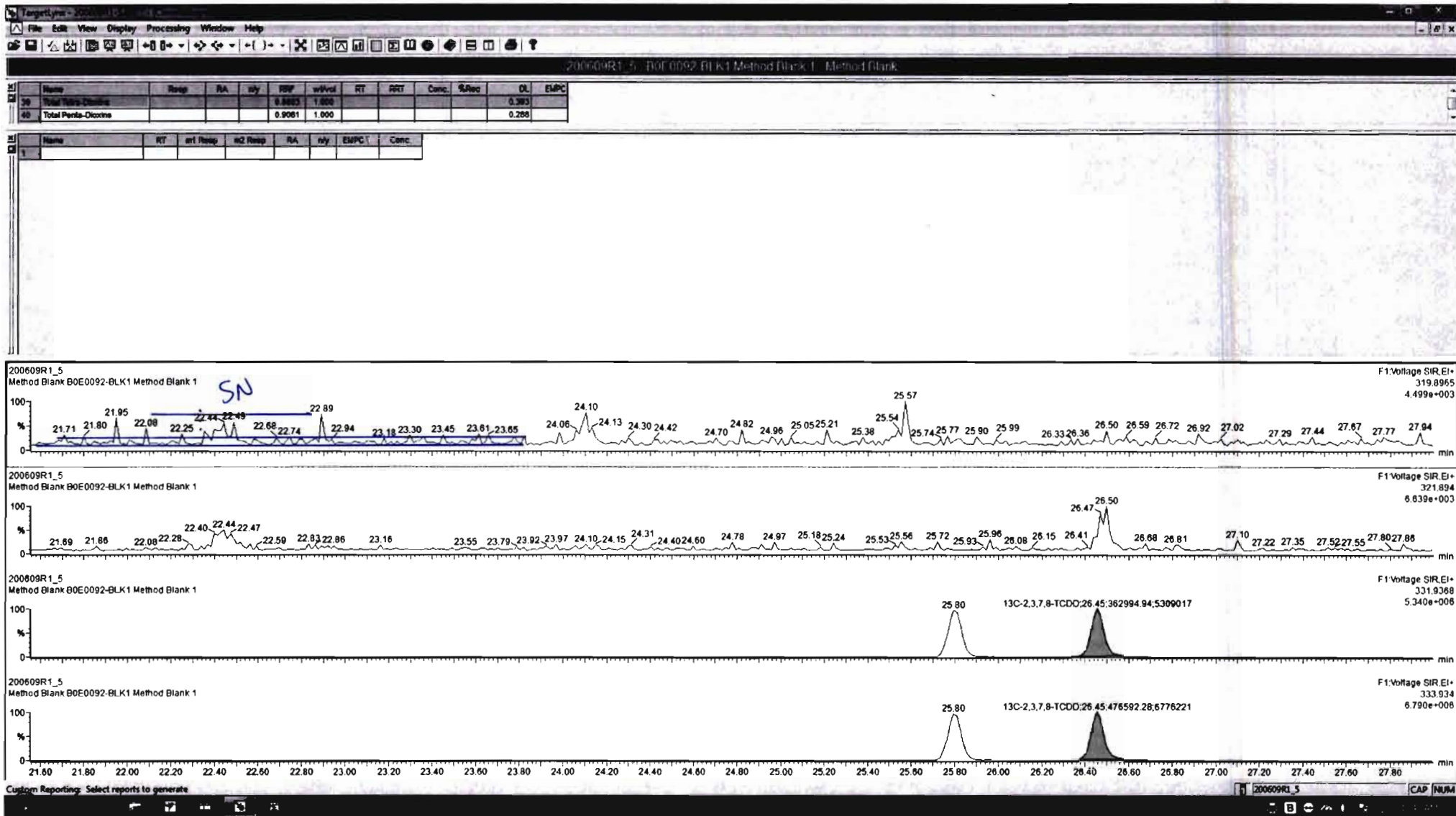
13C-2,3,7,8-TCDD

200609R1\_5



200609R1\_5





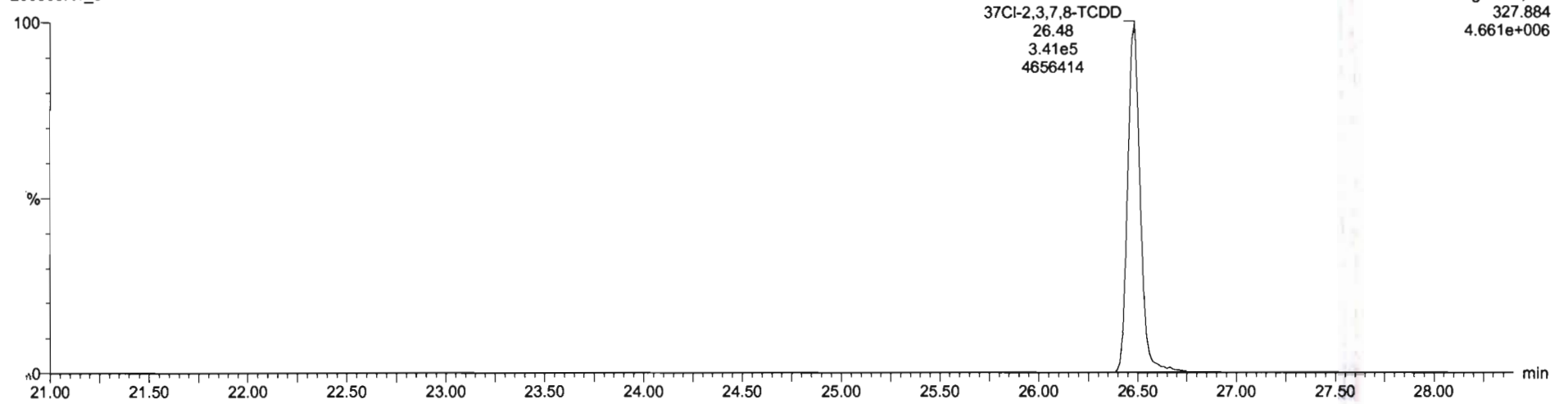
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Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

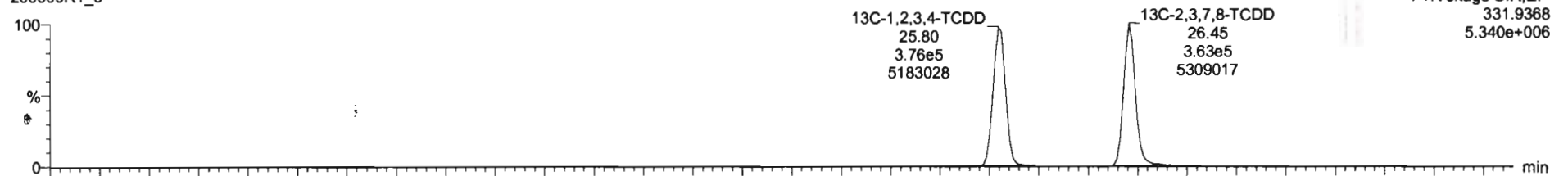
**37Cl-2,3,7,8-TCDD**

200609R1\_5

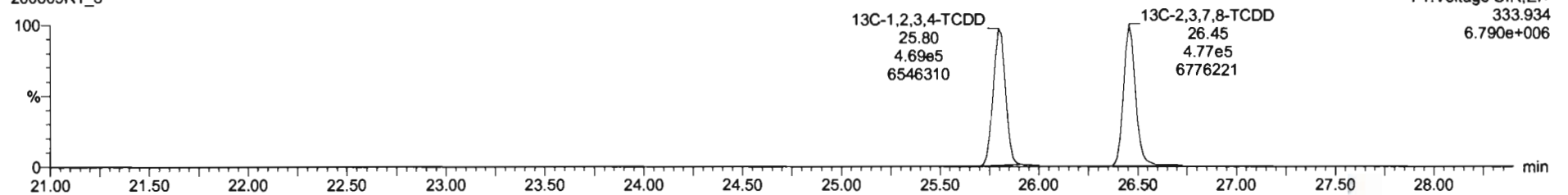


**13C-1,2,3,4-TCDD**

200609R1\_5



200609R1\_5



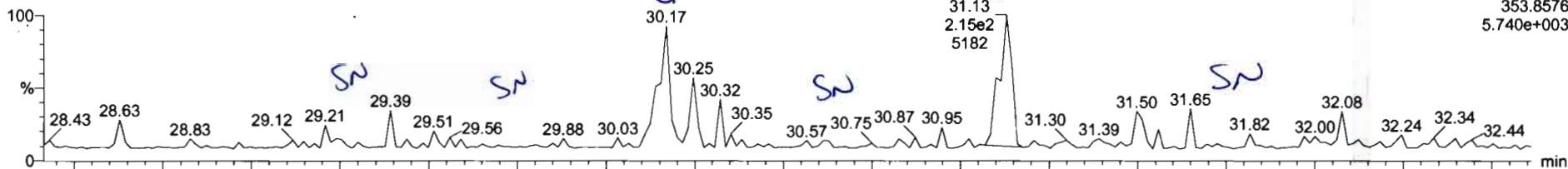
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

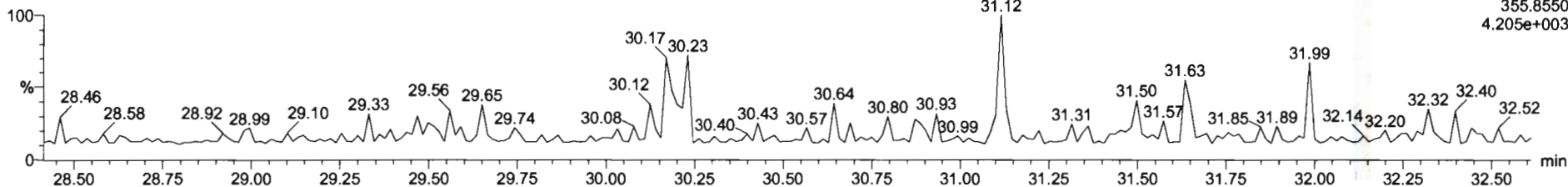
Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

1,2,3,7,8-PeCDD

200609R1\_5

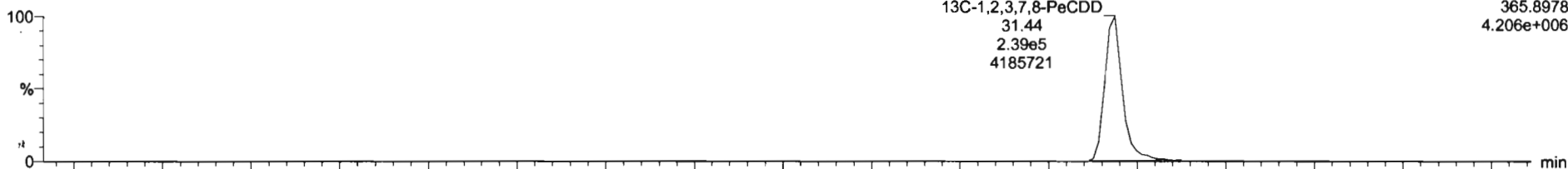


200609R1\_5

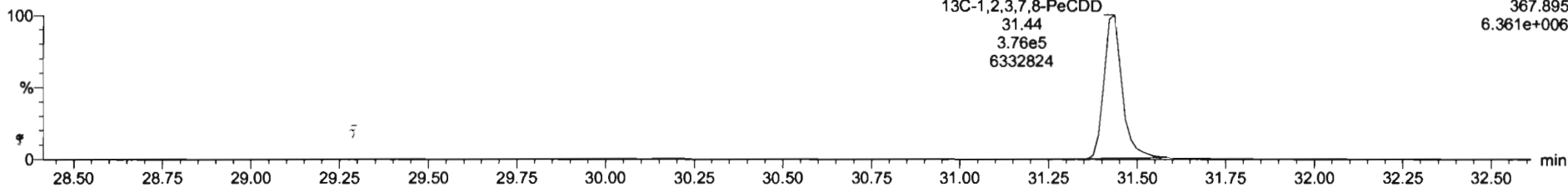


13C-1,2,3,7,8-PeCDD

200609R1\_5



200609R1\_5



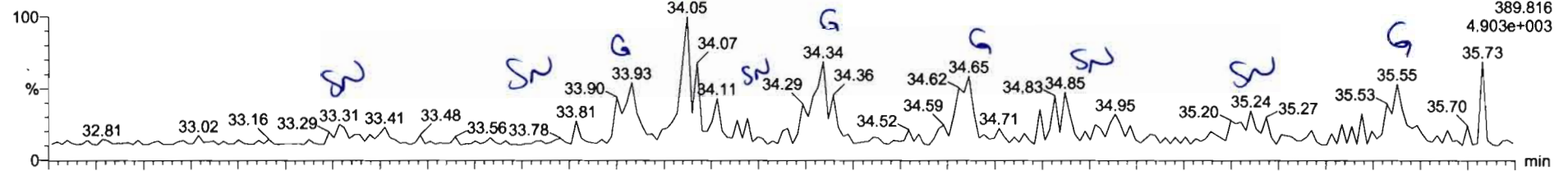
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

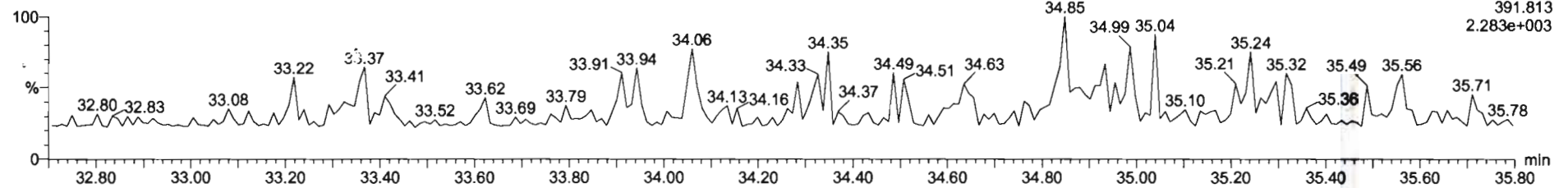
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1,2,3,4,7,8-HxCDD

200609R1\_5

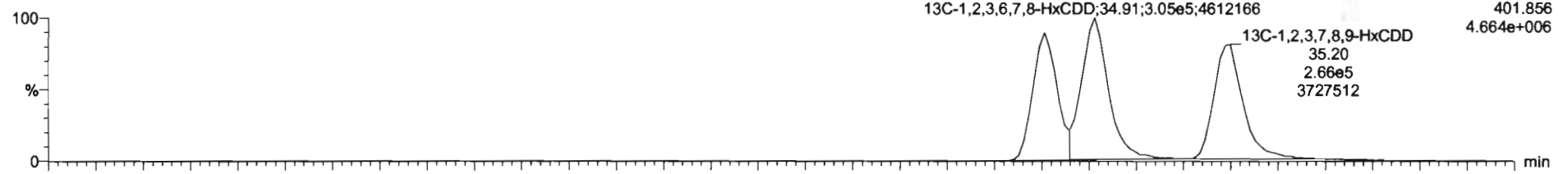


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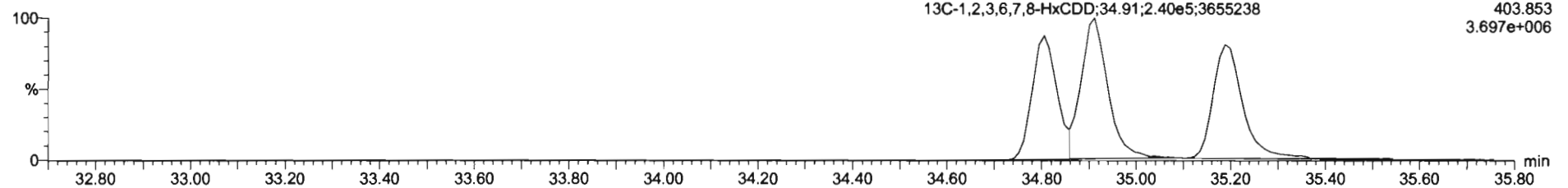


13C-1,2,3,4,7,8-HxCDD

200609R1\_5



200609R1\_5





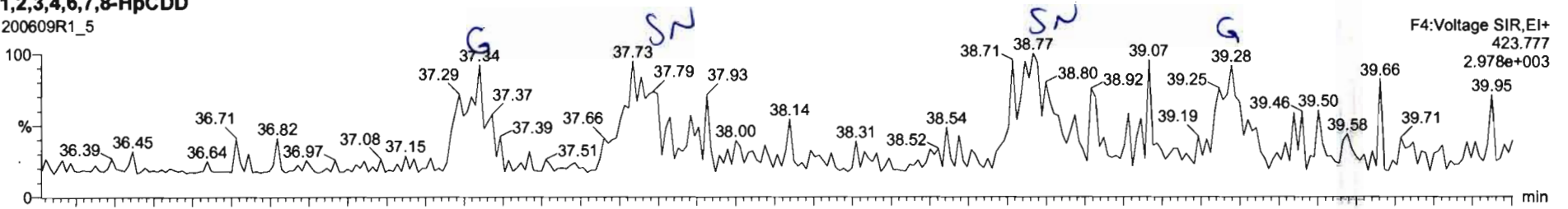
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

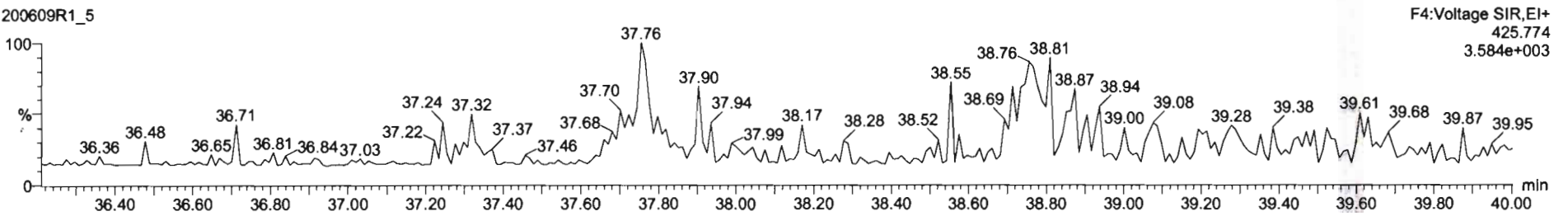
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1,2,3,4,6,7,8-HpCDD

200609R1\_5

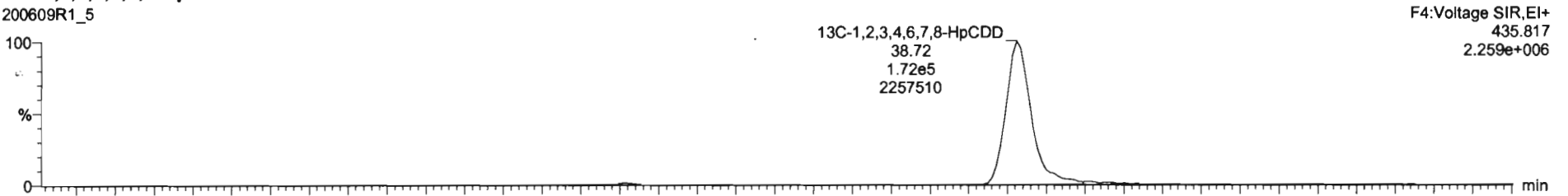


200609R1\_5

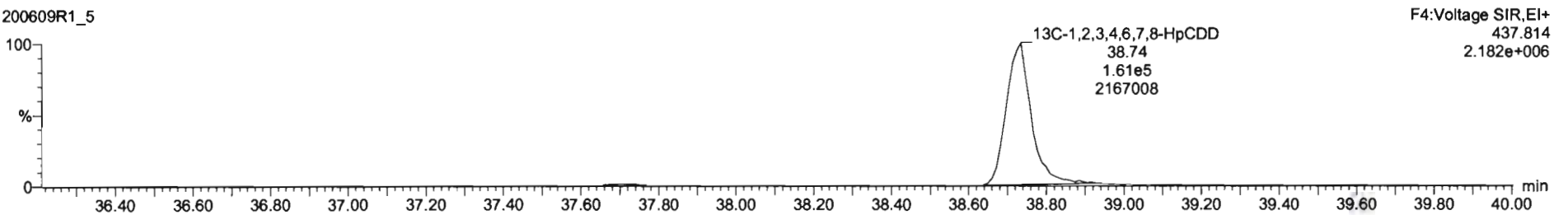


13C-1,2,3,4,6,7,8-HpCDD

200609R1\_5



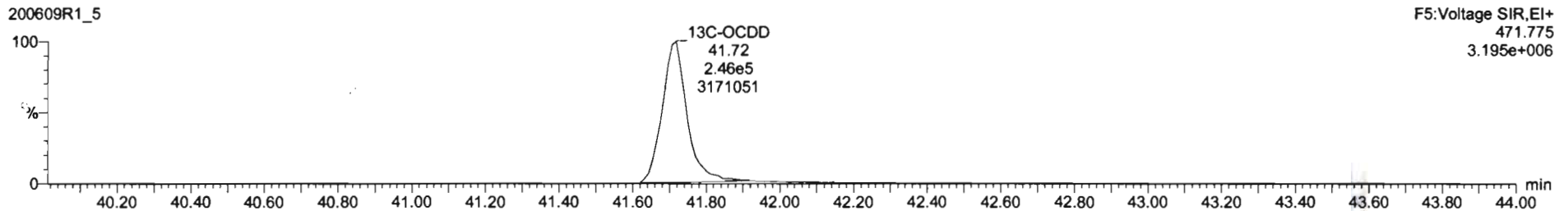
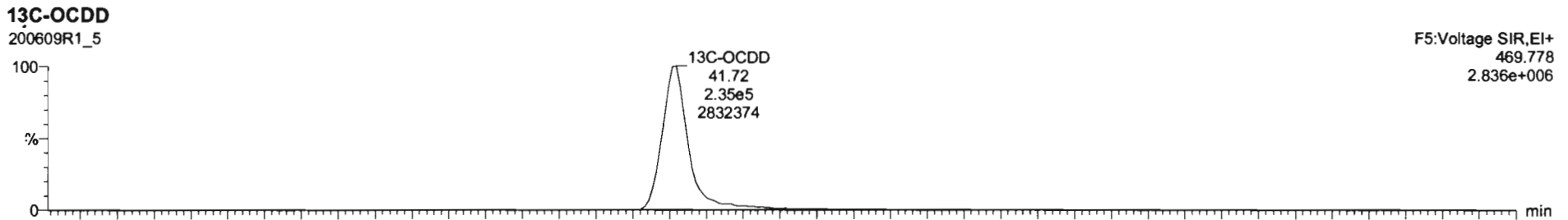
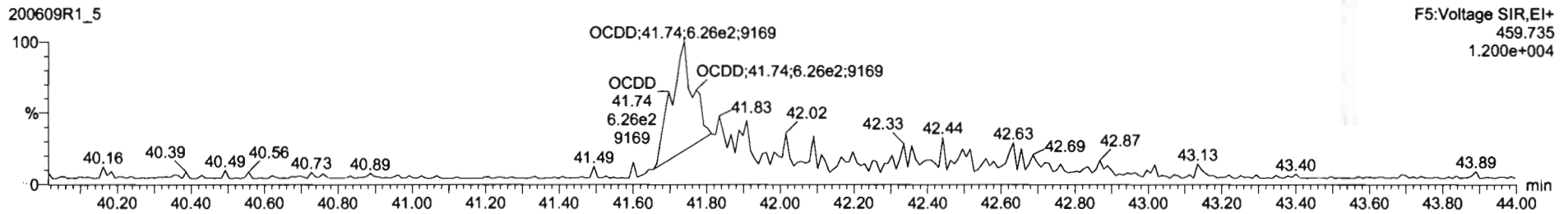
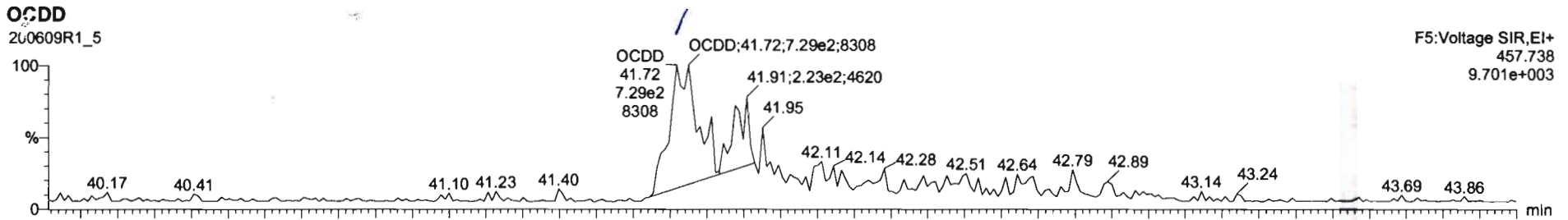
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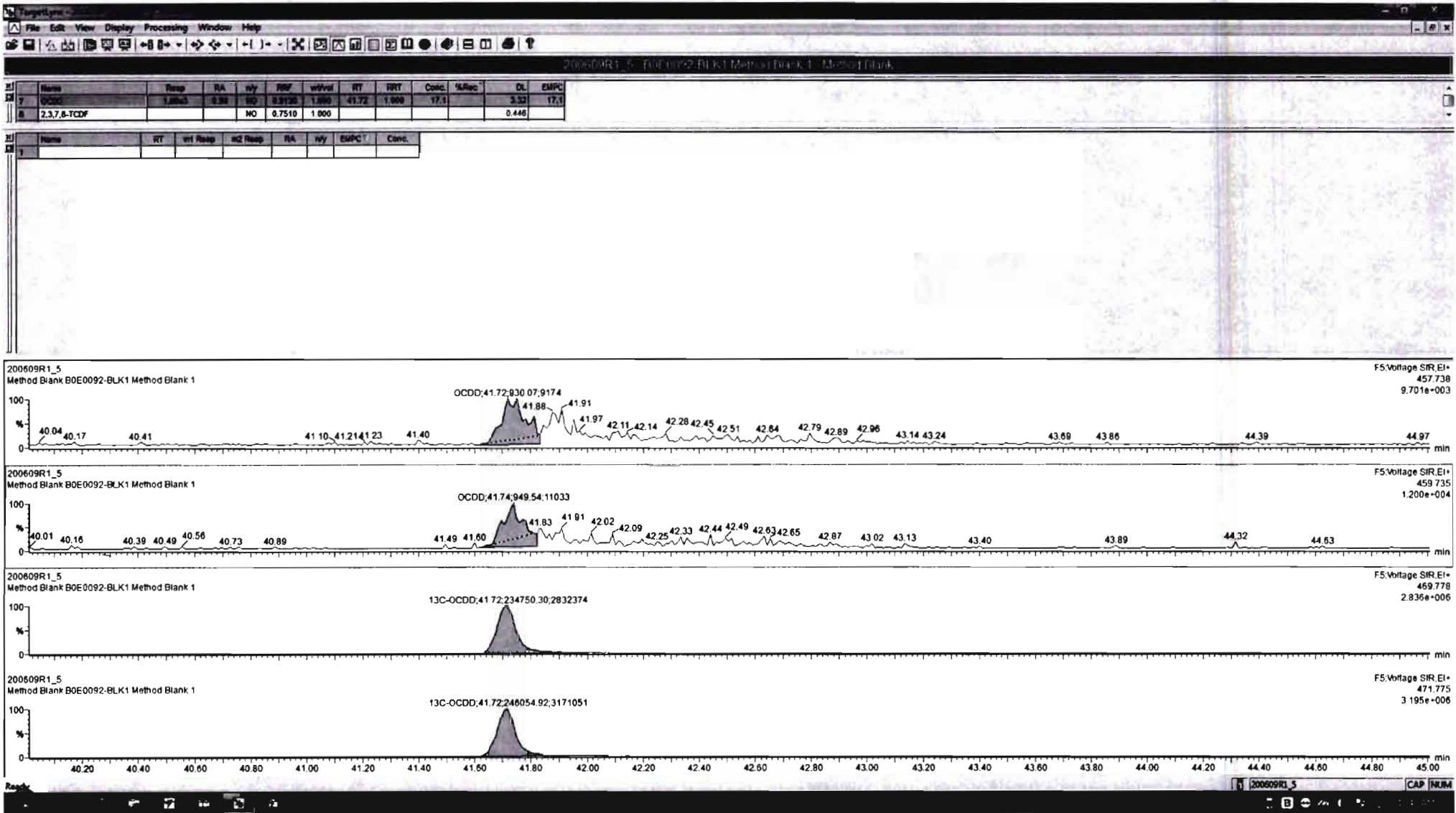
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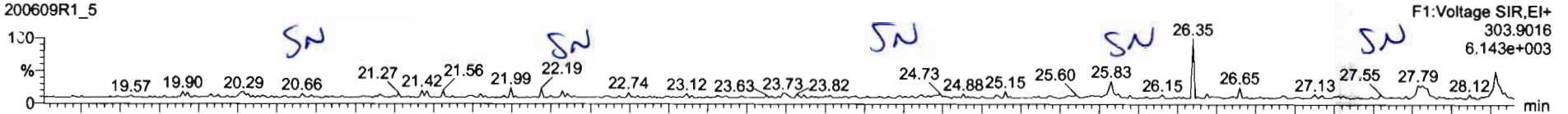
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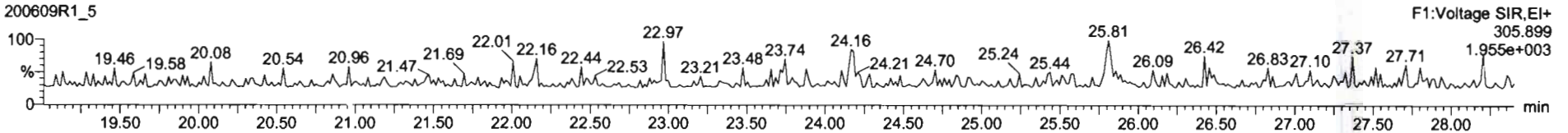
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**2,3,7,8-TCDF**

200609R1\_5

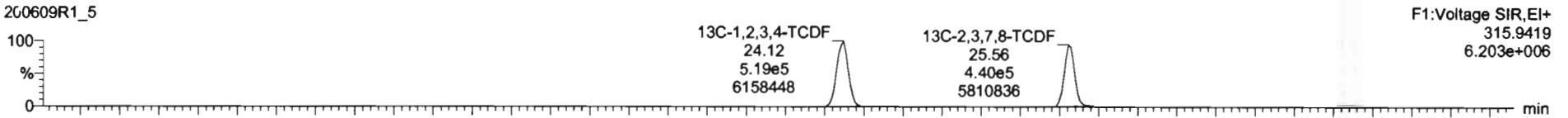


200609R1\_5

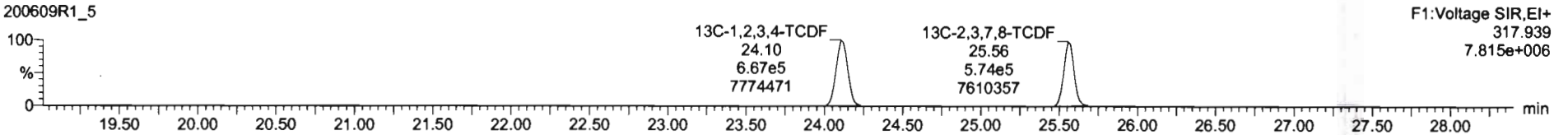


**13C-2,3,7,8-TCDF**

200609R1\_5

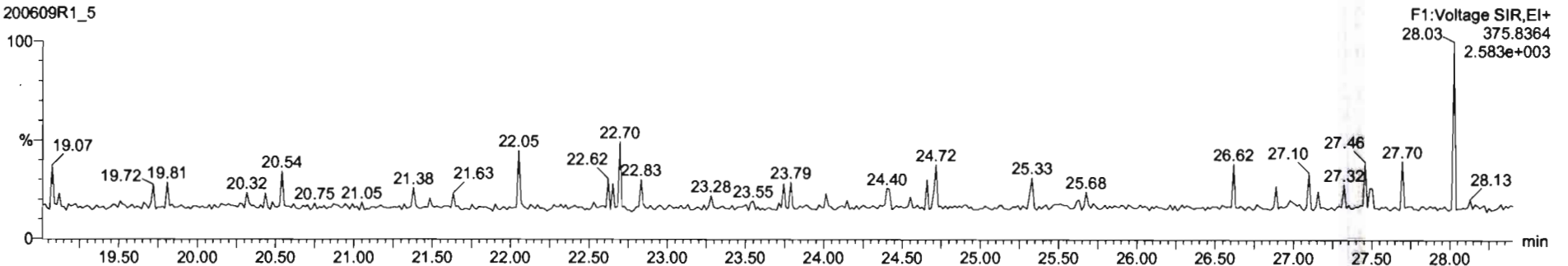


200609R1\_5



**DPE1**

200609R1\_5



Dataset: Untitled

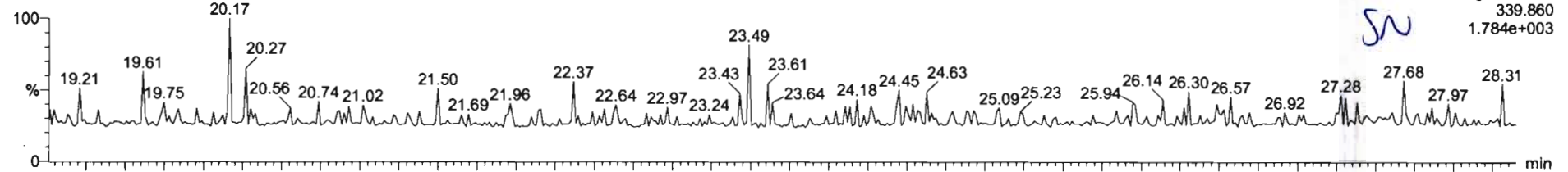
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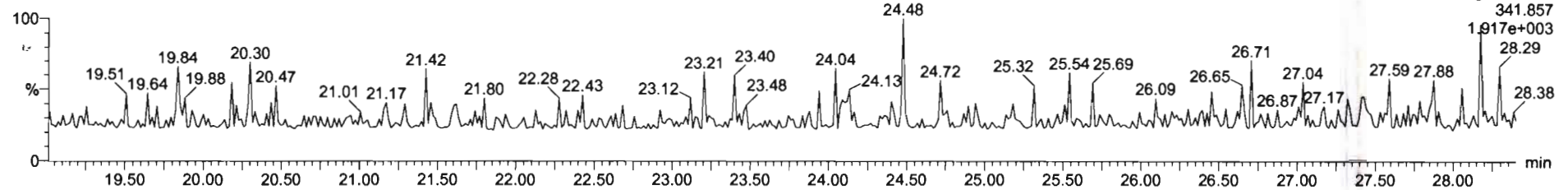
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1st Func. Penta-Furans

200609R1\_5

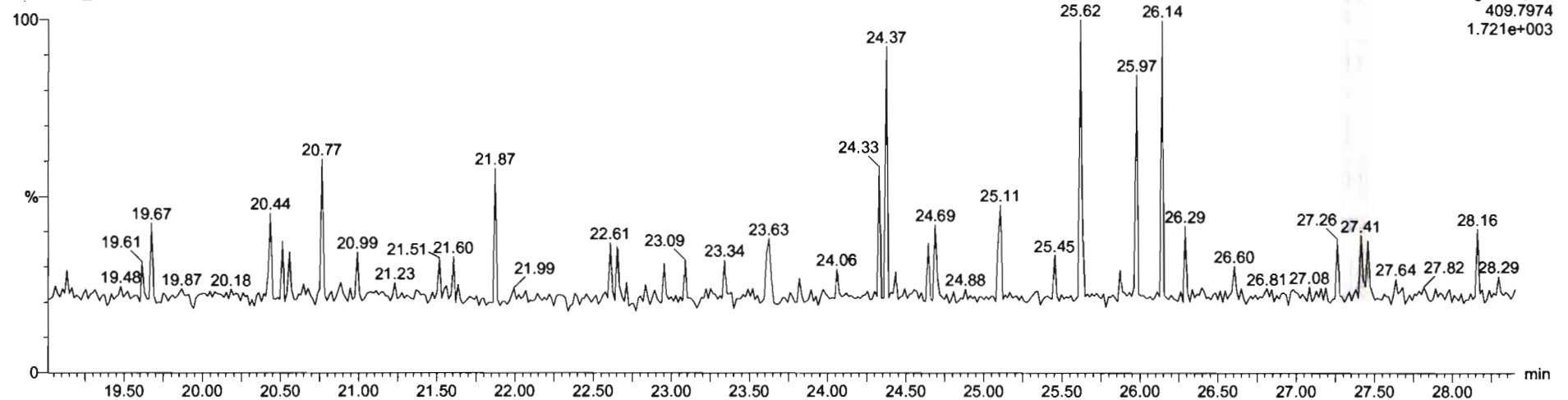


200609R1\_5



DPE6

200609R1\_5



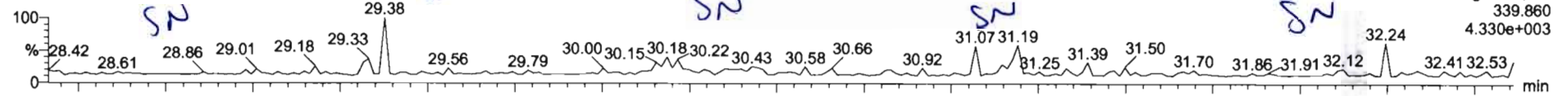
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Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

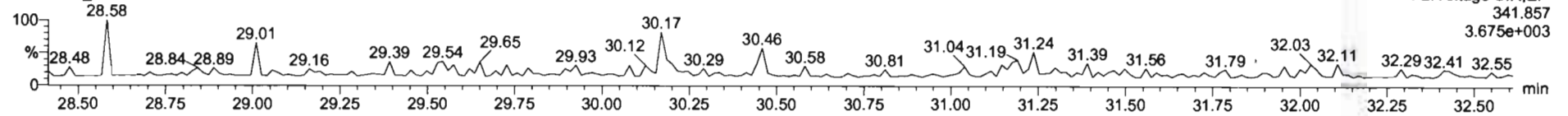
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**1,2,3,7,8-PeCDF**

200609R1\_5

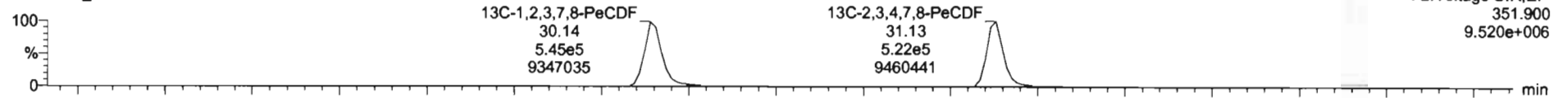


200609R1\_5

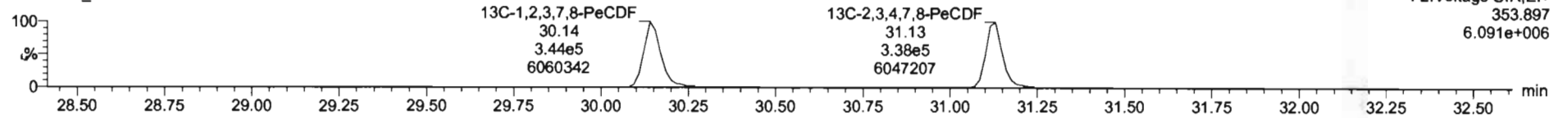


**13C-1,2,3,7,8-PeCDF**

200609R1\_5

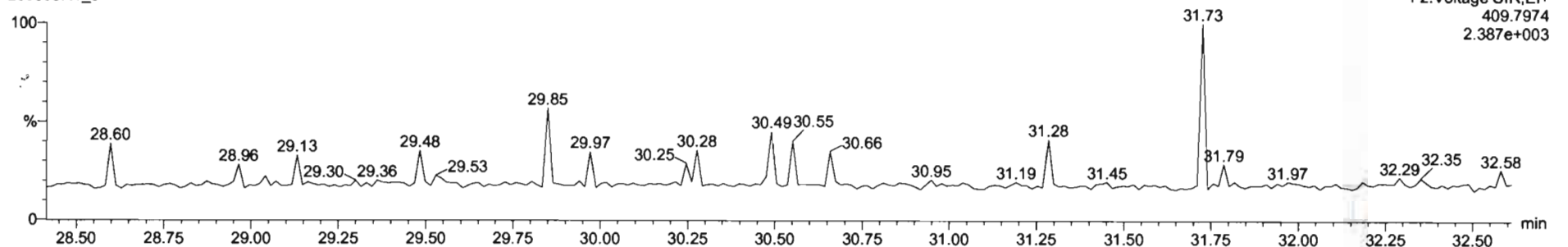


200609R1\_5



**DPE2**

200609R1\_5



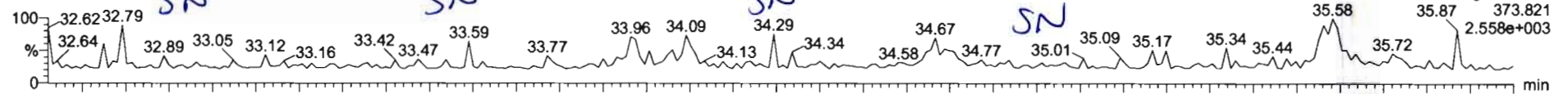
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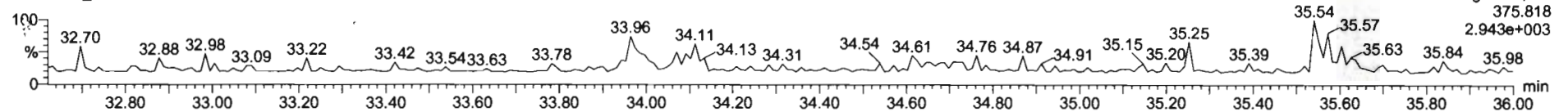
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**1,2,3,4,7,8-HxCDF**

200609R1\_5

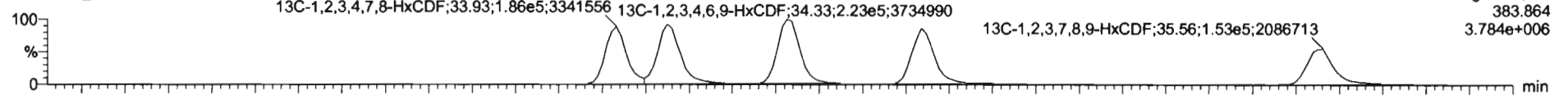


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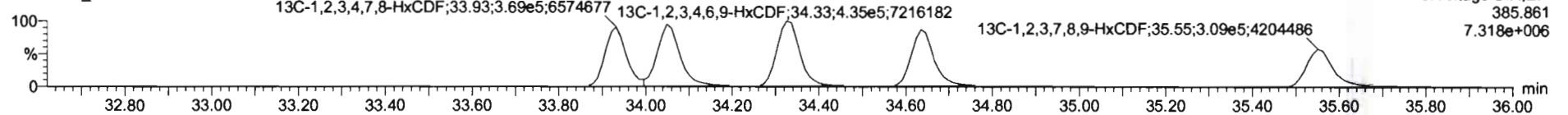


**13C-1,2,3,4,7,8-HxCDF**

200609R1\_5

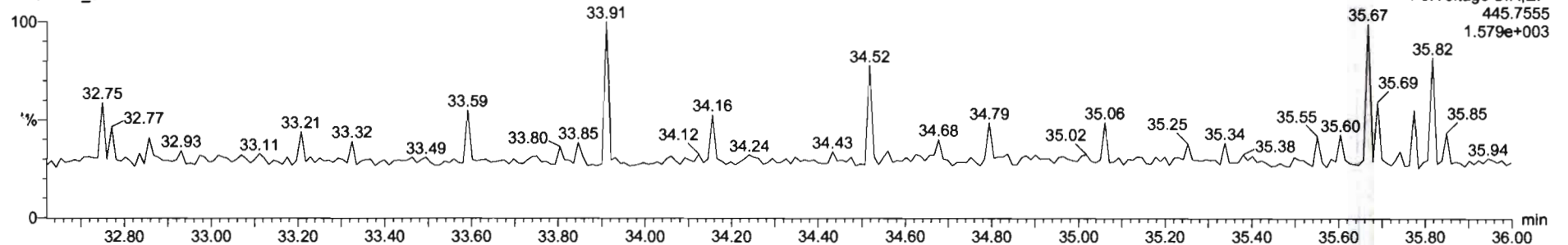


200609R1\_5



**DPE3**

200609R1\_5





Dataset: Untitled

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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

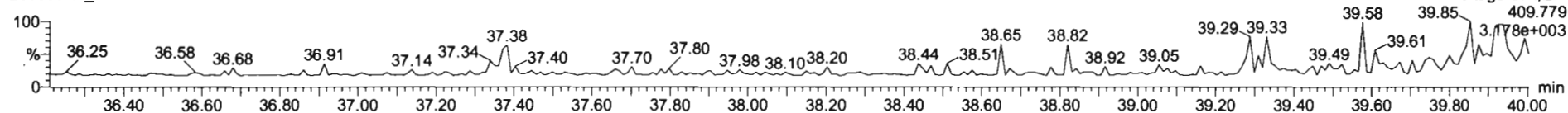
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1,2,3,4,6,7,8-HpCDF

200609R1\_5

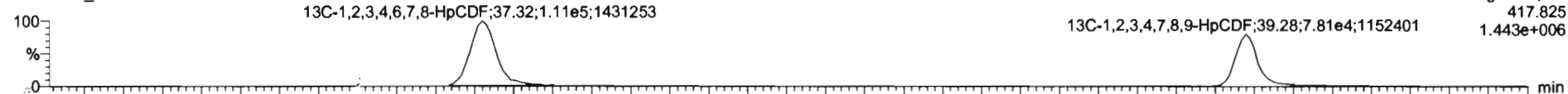


200609R1\_5

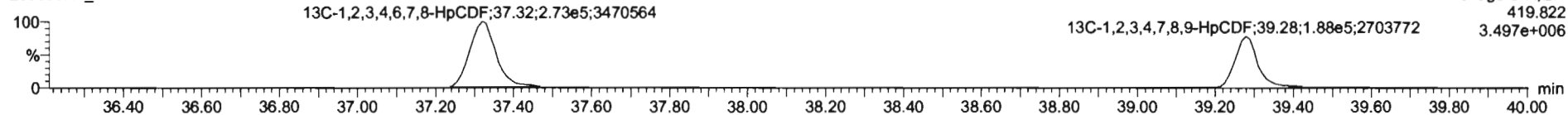


13C-1,2,3,4,6,7,8-HpCDF

200609R1\_5

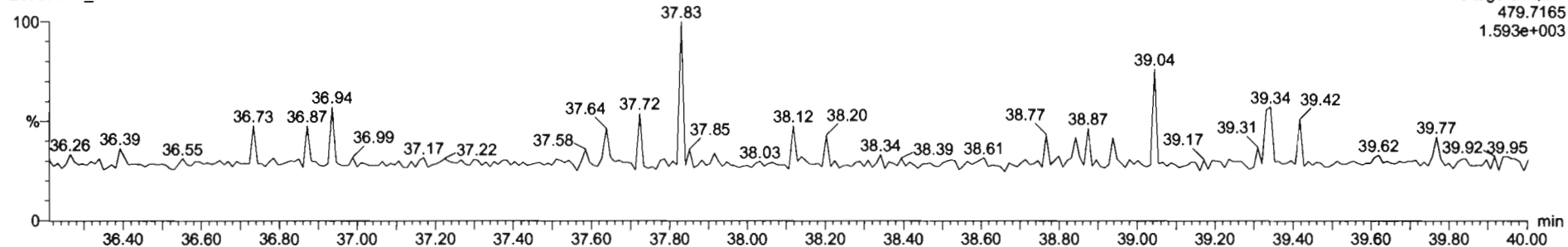


200609R1\_5



DPE4

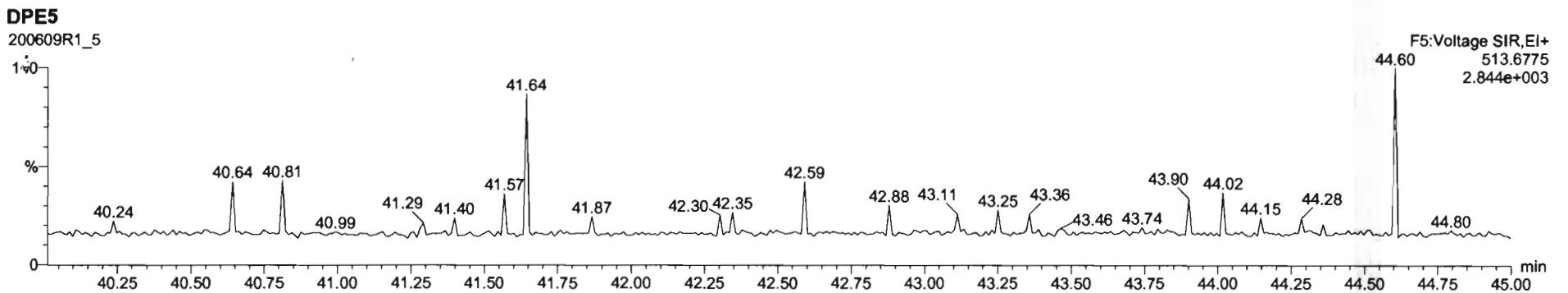
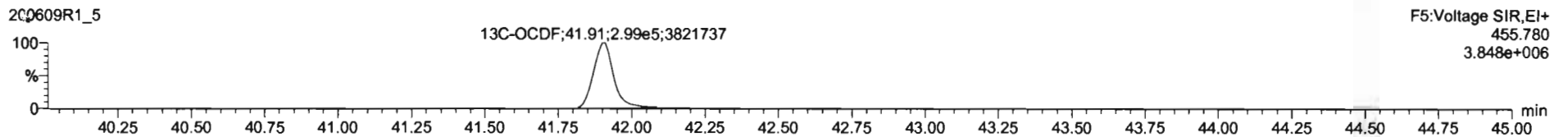
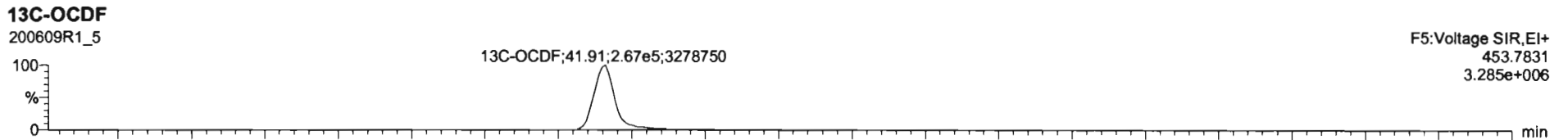
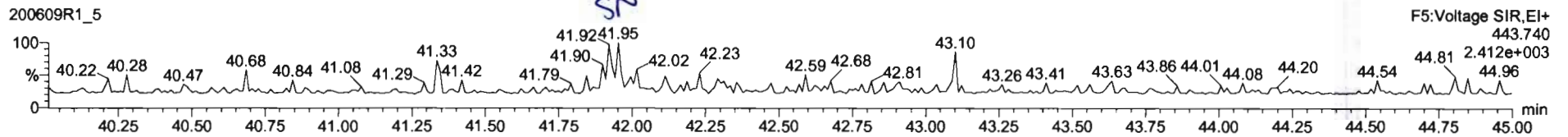
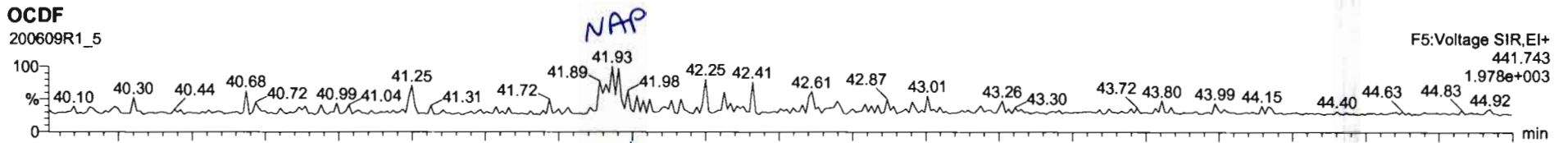
200609R1\_5



Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

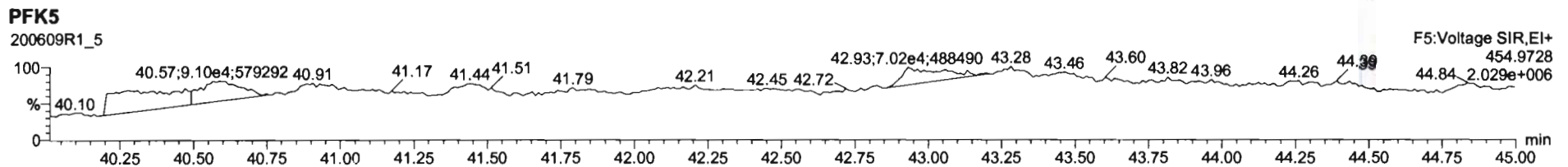
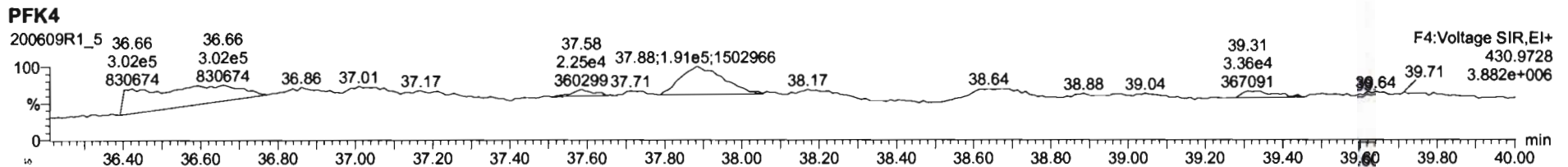
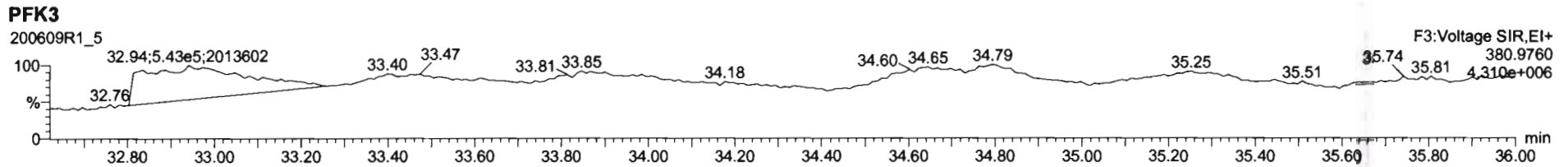
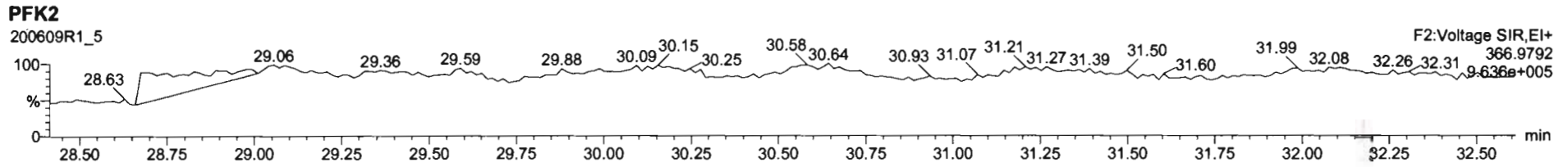
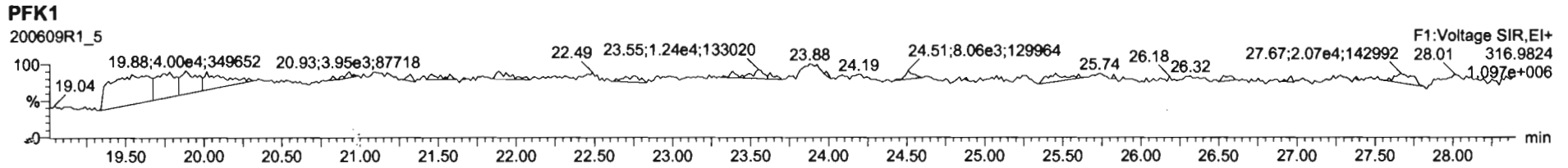
Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank



Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank





Dataset: U:\VG12.PRO\Results\200609R1\200609R1-2.qld

Last Altered: Wednesday, June 10, 2020 10:21:00 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 10:21:22 Pacific Daylight Time

*GPB 06/10/2020*

*CT 06/10/2020*

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

Name: 200609R1\_2, Date: 09-Jun-2020, Time: 11:45:38, ID: B0E0092-BS1 OPR 1, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	6.86e4	0.73	NO	0.888	1.000	26.471	26.47	1.001	1.001	182.80		0.906	183
2	2 1,2,3,7,8-PeCDD	2.55e5	0.61	NO	0.908	1.000	31.442	31.45	1.001	1.001	929.91		2.22	930
3	3 1,2,3,4,7,8-HxCDD	2.16e5	1.24	NO	1.03	1.000	34.814	34.81	1.000	1.000	950.17		3.20	950
4	4 1,2,3,6,7,8-HxCDD	2.37e5	1.25	NO	0.892	1.000	34.911	34.92	1.000	1.000	985.46		3.22	985
5	5 1,2,3,7,8,9-HxCDD	2.08e5	1.22	NO	0.887	1.000	35.199	35.20	1.000	1.000	951.39		3.72	951
6	6 1,2,3,4,6,7,8-HpCDD	1.47e5	1.05	NO	0.864	1.000	38.735	38.73	1.000	1.000	985.69		3.51	986
7	7 OCDD	2.40e5	0.88	NO	0.914	1.000	41.706	41.72	1.000	1.000	1977.3		4.30	1980
8	8 2,3,7,8-TCDF	8.06e4	0.73	NO	0.751	1.000	25.582	25.57	1.001	1.001	198.42		0.711	198
9	9 1,2,3,7,8-PeCDF	3.88e5	1.56	NO	0.893	1.000	30.159	30.15	1.001	1.001	957.76		2.91	958
10	10 2,3,4,7,8-PeCDF	3.97e5	1.58	NO	0.935	1.000	31.161	31.15	1.001	1.000	947.87		2.71	948
11	11 1,2,3,4,7,8-HxCDF	2.54e5	1.21	NO	0.884	1.000	33.920	33.94	1.000	1.001	988.86		3.68	989
12	12 1,2,3,6,7,8-HxCDF	2.83e5	1.21	NO	0.889	1.000	34.058	34.06	1.000	1.000	992.69		3.36	993
13	13 2,3,4,6,7,8-HxCDF	2.77e5	1.20	NO	0.934	1.000	34.669	34.64	1.001	1.000	981.15		3.57	981
14	14 1,2,3,7,8,9-HxCDF	2.02e5	1.24	NO	0.871	1.000	35.550	35.56	1.000	1.000	944.38		5.26	944
15	15 1,2,3,4,6,7,8-HpCDF	1.75e5	0.99	NO	0.873	1.000	37.355	37.33	1.001	1.000	993.27		3.60	993
16	16 1,2,3,4,7,8,9-HpCDF	1.37e5	0.98	NO	1.01	1.000	39.277	39.29	1.000	1.000	1011.2		4.05	1010
17	17 OCDF	2.32e5	0.87	NO	0.806	1.000	41.897	41.91	1.000	1.000	1962.7		3.57	1960
18	18 13C-2,3,7,8-TCDD	8.45e5	0.75	NO	1.16	1.000	26.476	26.44	1.026	1.025	1870.8	93.5	3.10	
19	19 13C-1,2,3,7,8-PeCDD	6.04e5	0.64	NO	0.849	1.000	31.656	31.42	1.227	1.218	1822.2	91.1	3.05	
20	20 13C-1,2,3,4,7,8-HxCDD	4.40e5	1.28	NO	0.779	1.000	34.809	34.80	1.014	1.014	1754.5	87.7	4.10	
21	21 13C-1,2,3,6,7,8-HxCDD	5.38e5	1.28	NO	1.02	1.000	34.922	34.91	1.017	1.017	1645.7	82.3	3.14	
22	22 13C-1,2,3,7,8,9-HxCDD	4.92e5	1.26	NO	0.903	1.000	35.193	35.19	1.025	1.025	1694.4	84.7	3.54	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.45e5	1.05	NO	0.689	1.000	38.715	38.72	1.128	1.128	1554.7	77.7	3.80	
24	24 13C-OCDD	5.31e5	0.90	NO	0.652	1.000	41.736	41.71	1.216	1.215	2528.3	63.2	4.04	
25	25 13C-2,3,7,8-TCDF	1.08e6	0.78	NO	1.06	1.000	25.519	25.56	0.989	0.991	1756.9	87.8	4.17	
26	26 13C-1,2,3,7,8-PeCDF	9.08e5	1.59	NO	0.838	1.000	30.041	30.14	1.165	1.168	1863.4	93.2	5.23	
27	27 13C-2,3,4,7,8-PeCDF	8.96e5	1.60	NO	0.817	1.000	30.993	31.13	1.202	1.207	1885.8	94.3	5.37	
28	28 13C-1,2,3,4,7,8-HxCDF	5.80e5	0.50	NO	1.01	1.000	33.941	33.92	0.989	0.988	1788.1	89.4	5.59	
29	29 13C-1,2,3,6,7,8-HxCDF	6.41e5	0.50	NO	1.17	1.000	34.064	34.05	0.992	0.992	1707.4	85.4	4.83	
30	30 13C-2,3,4,6,7,8-HxCDF	6.04e5	0.51	NO	1.02	1.000	34.637	34.63	1.009	1.009	1838.0	91.9	5.51	
31	31 13C-1,2,3,7,8,9-HxCDF	4.92e5	0.49	NO	0.860	1.000	35.537	35.55	1.035	1.036	1779.4	89.0	6.55	

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-2.qld

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Printed: Wednesday, June 10, 2020 10:21:22 Pacific Daylight Time

Name: 200609R1\_2, Date: 09-Jun-2020, Time: 11:45:38, ID: B0E0092-BS1 OPR 1, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.04e5	0.43	NO	0.774	1.000	37.284	37.32	1.086	1.087	1619.4	81.0	4.80	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.68e5	0.43	NO	0.521	1.000	39.312	39.28	1.145	1.144	1597.1	79.9	7.13	
34	34 13C-OCDF	5.86e5	0.87	NO	0.746	1.000	41.907	41.90	1.221	1.221	2442.9	61.1	3.50	
35	35 37Cl-2,3,7,8-TCDD	3.28e5			1.04	1.000	26.507	26.47	1.028	1.026	810.48	101	0.745	
36	36 13C-1,2,3,4-TCDD	7.81e5	0.80	NO	1.00	1.000	25.890	25.80	1.000	1.000	2000.0	100	3.59	
37	37 13C-1,2,3,4-TCDF	1.16e6	0.78	NO	1.00	1.000	24.360	24.10	1.000	1.000	2000.0	100	4.41	
38	38 13C-1,2,3,4,6,9-HxCDF	6.44e5	0.51	NO	1.00	1.000	34.420	34.33	1.000	1.000	2000.0	100	5.63	

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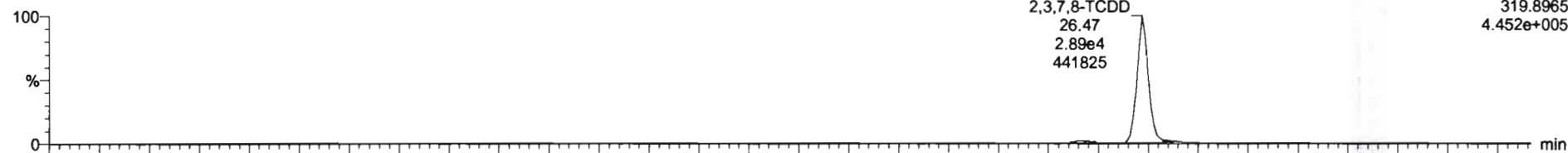
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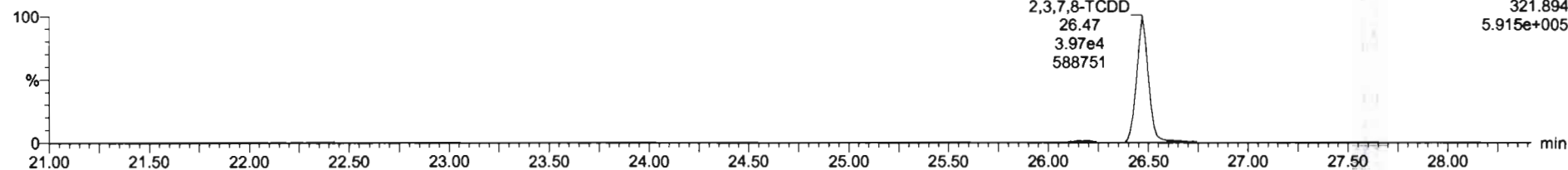
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**2,3,7,8-TCDD**

200609R1\_2

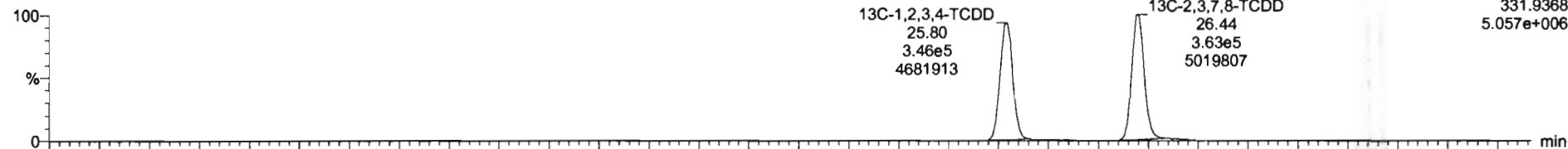


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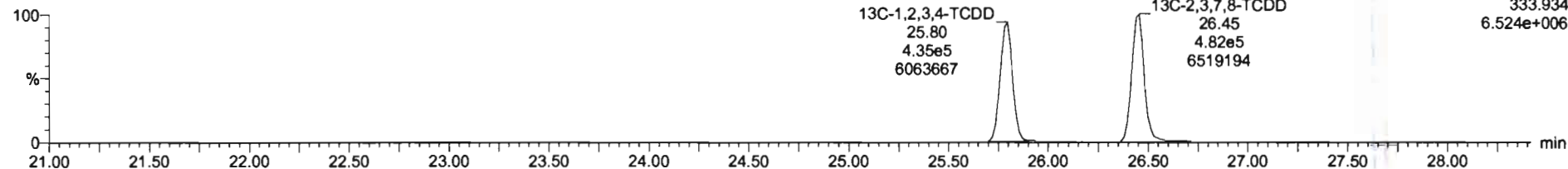


**13C-2,3,7,8-TCDD**

200609R1\_2



200609R1\_2



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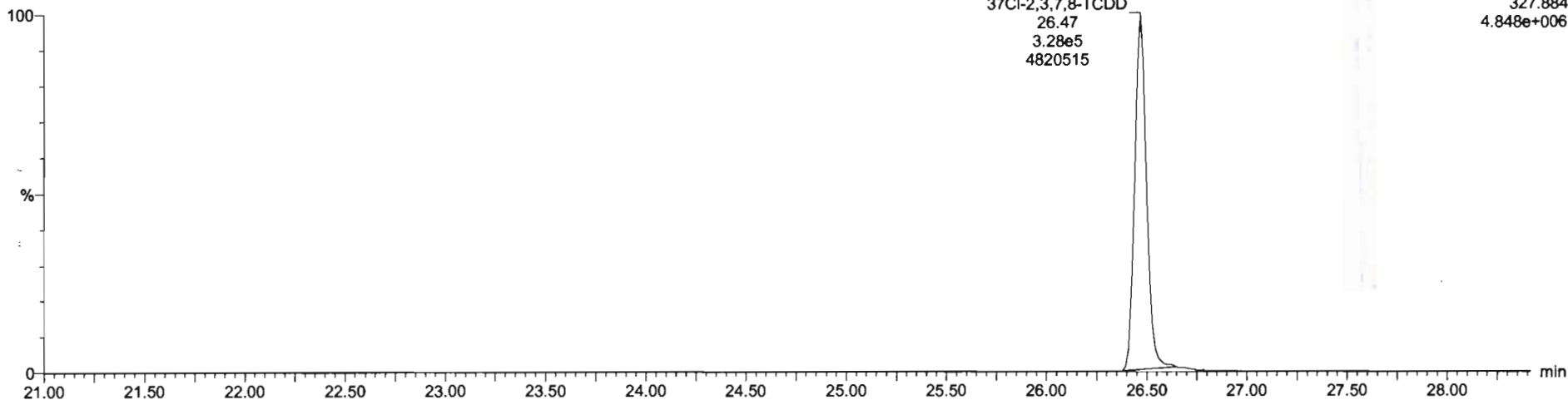
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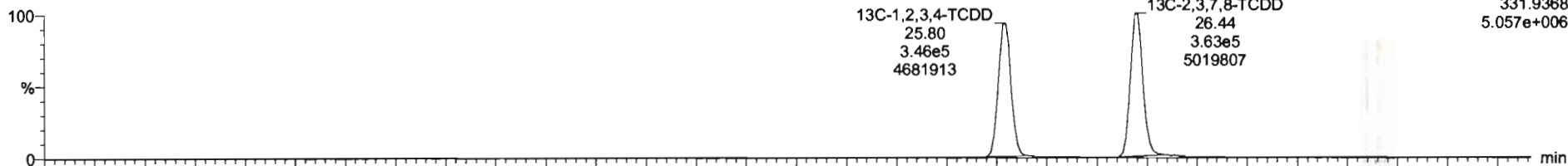
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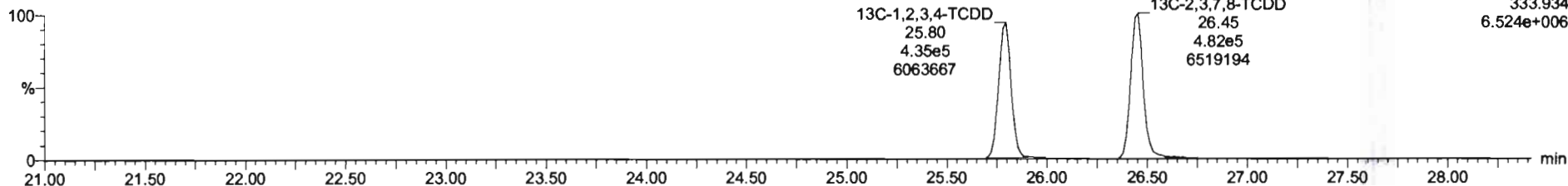


**13C-1,2,3,4-TCDD**

200609R1\_2



200609R1\_2



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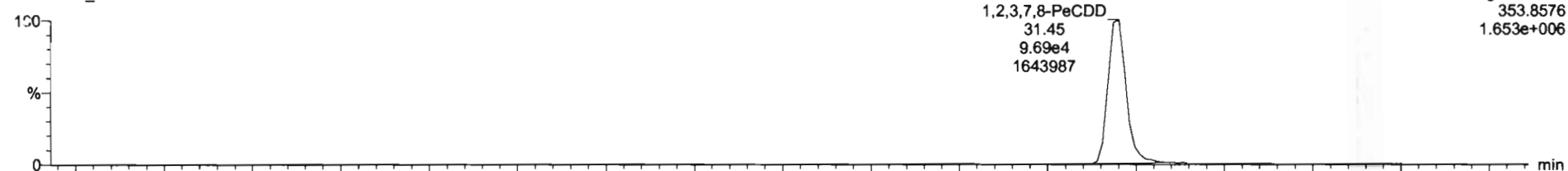
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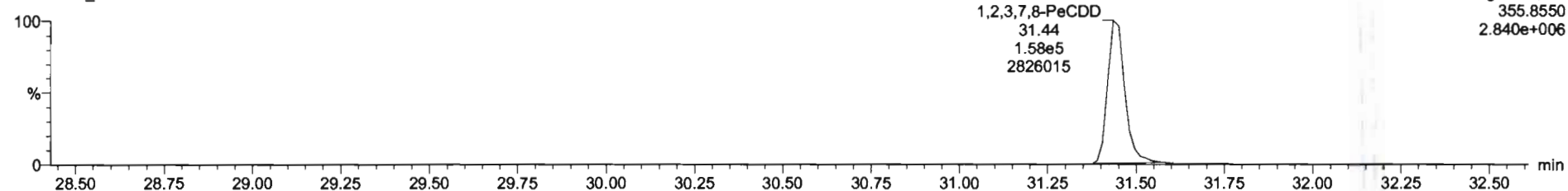
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**1,2,3,7,8-PeCDD**

200609R1\_2

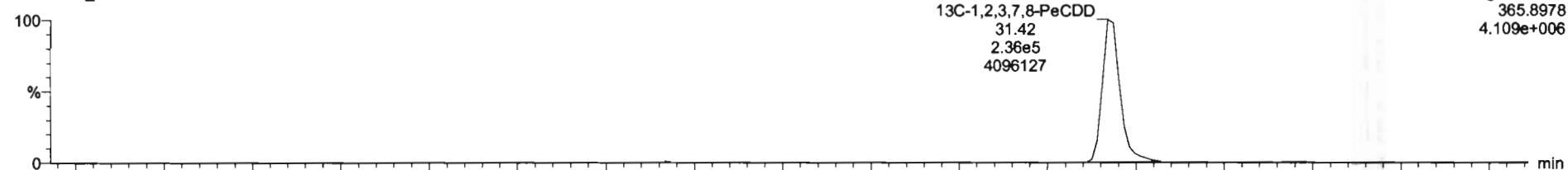


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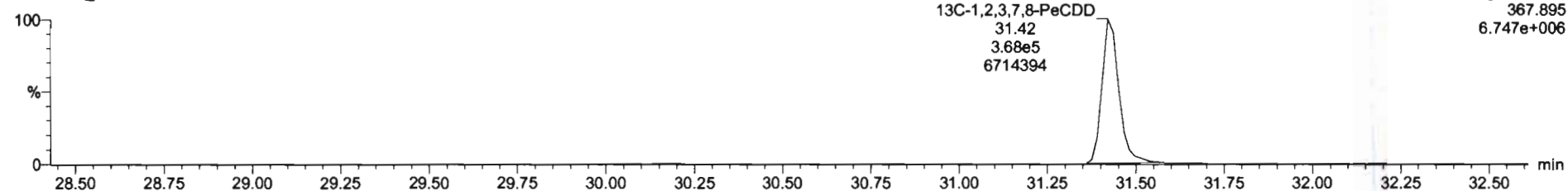


**13C-1,2,3,7,8-PeCDD**

200609R1\_2



200609R1\_2



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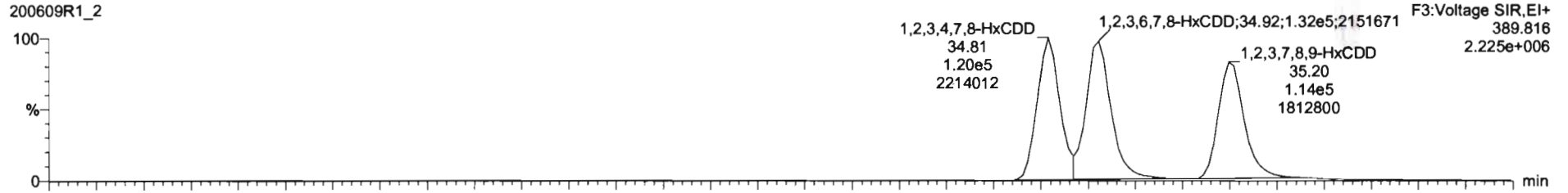
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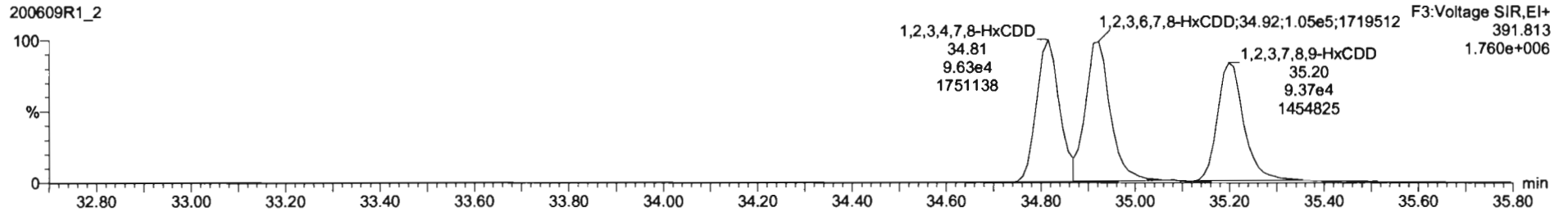
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**1,2,3,4,7,8-HxCDD**

200609R1\_2

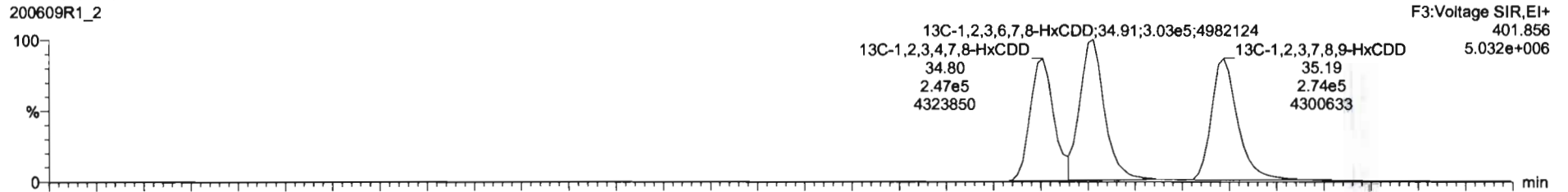


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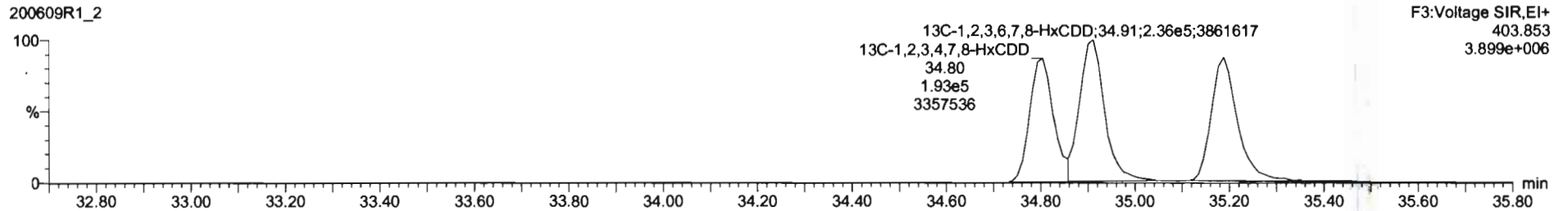


**13C-1,2,3,4,7,8-HxCDD**

200609R1\_2



200609R1\_2



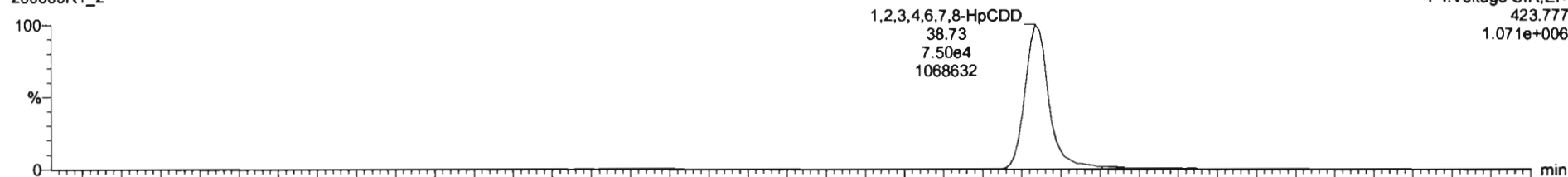
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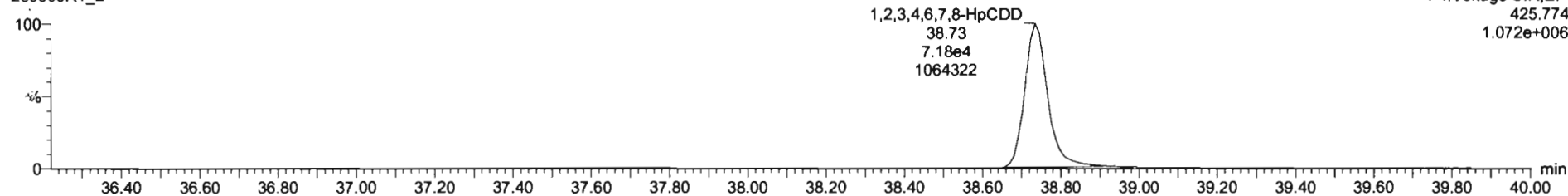
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1,2,3,4,6,7,8-HpCDD

200609R1\_2

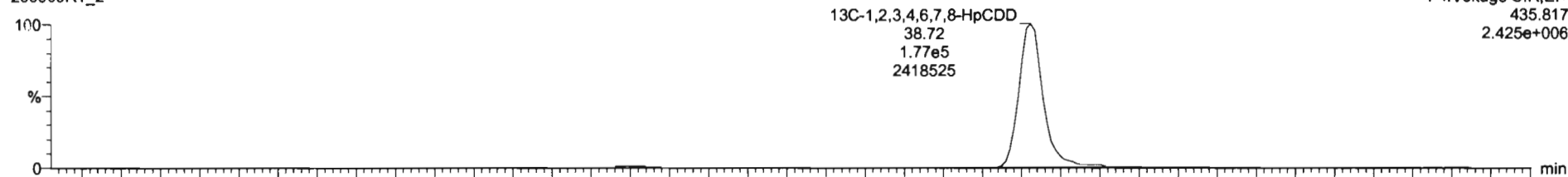


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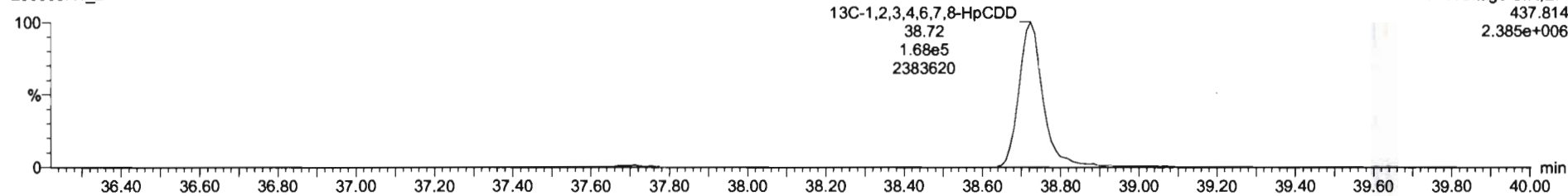


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200609R1\_2



200609R1\_2





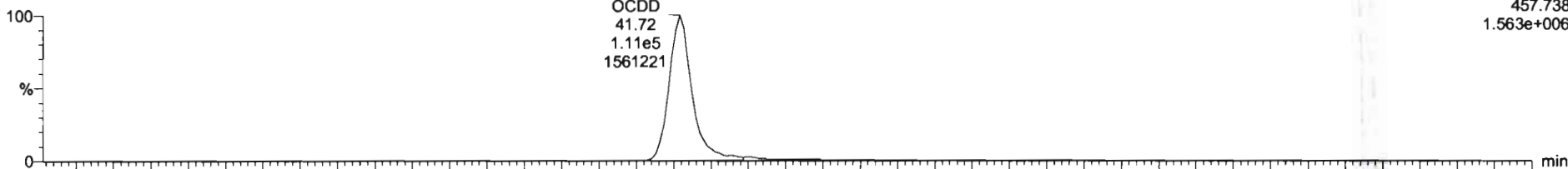
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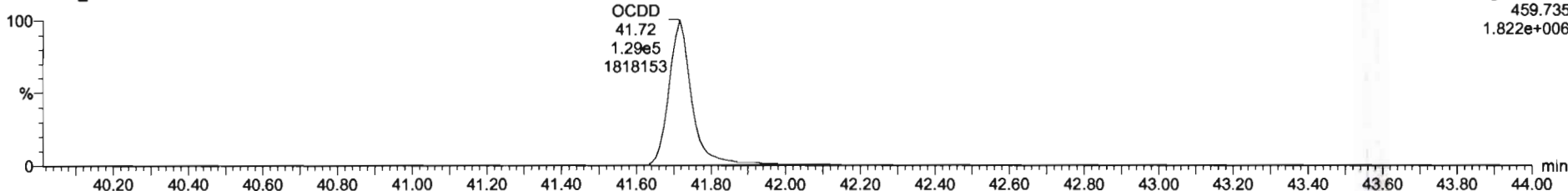
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**OCDD**

200609R1\_2

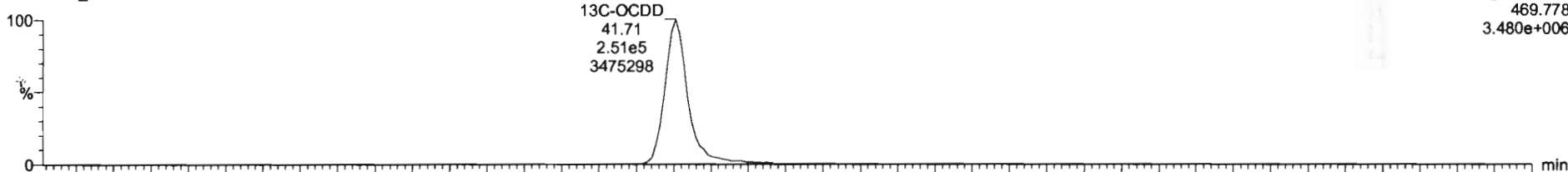


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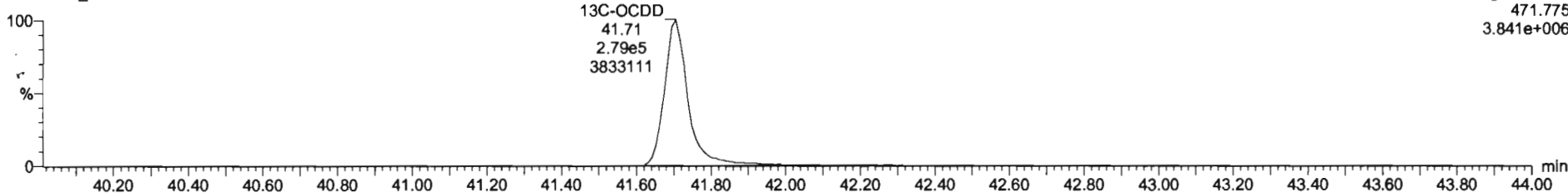


**13C-OCDD**

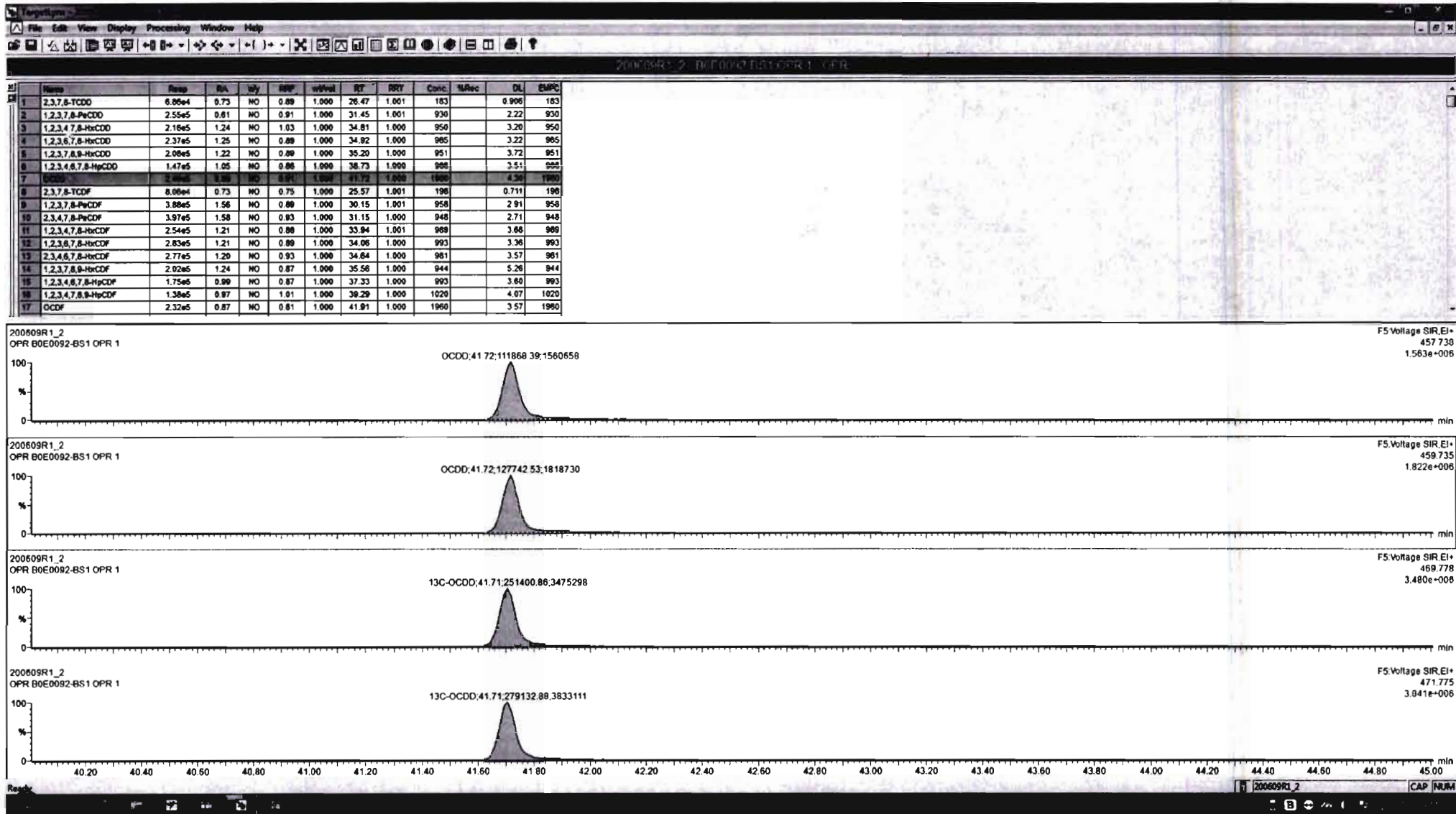
200609R1\_2



200609R1\_2







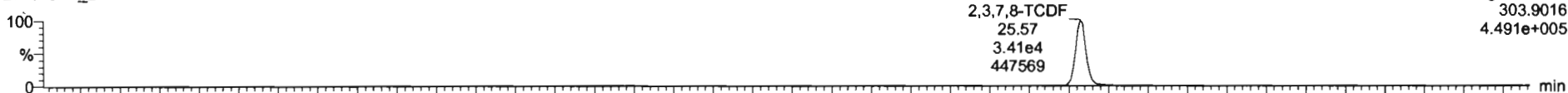
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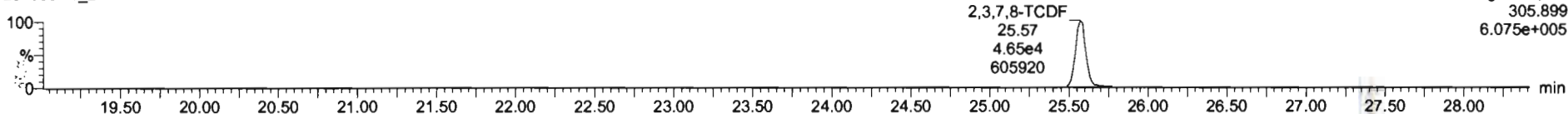
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**2,3,7,8-TCDF**

200609R1\_2

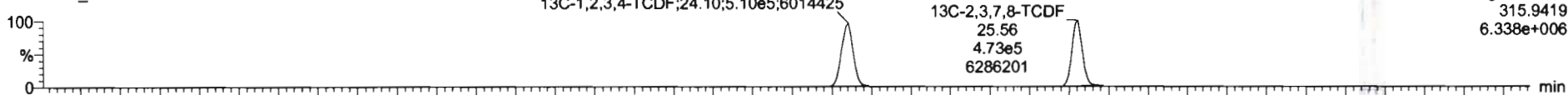


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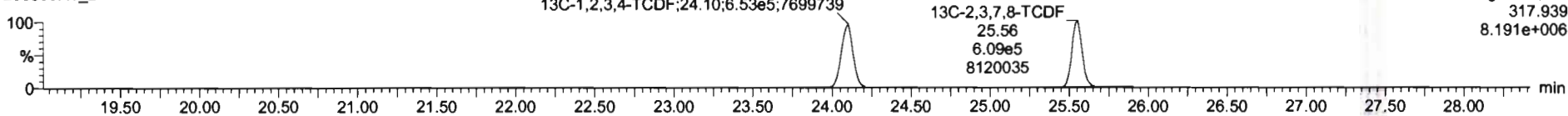


**13C-2,3,7,8-TCDF**

200609R1\_2

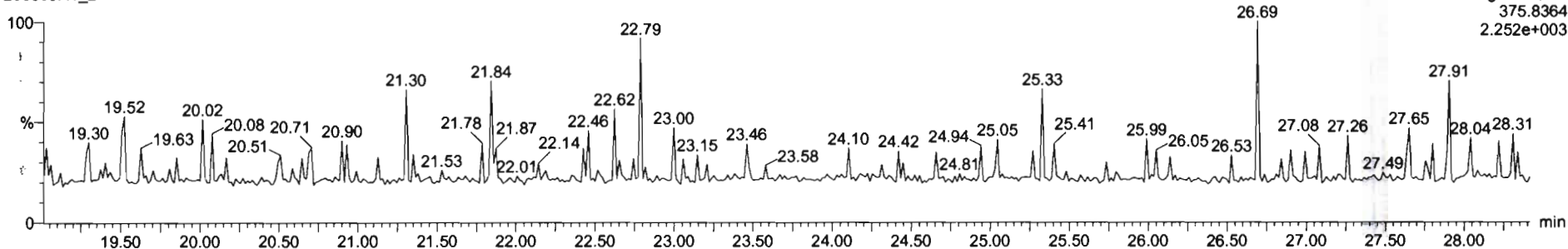


200609R1\_2



**DPE1**

200609R1\_2



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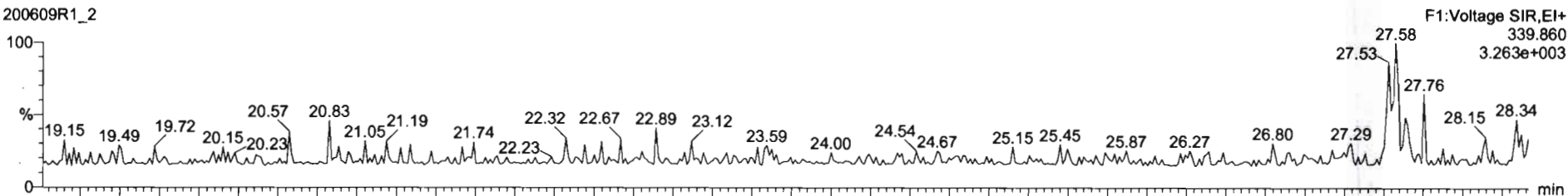
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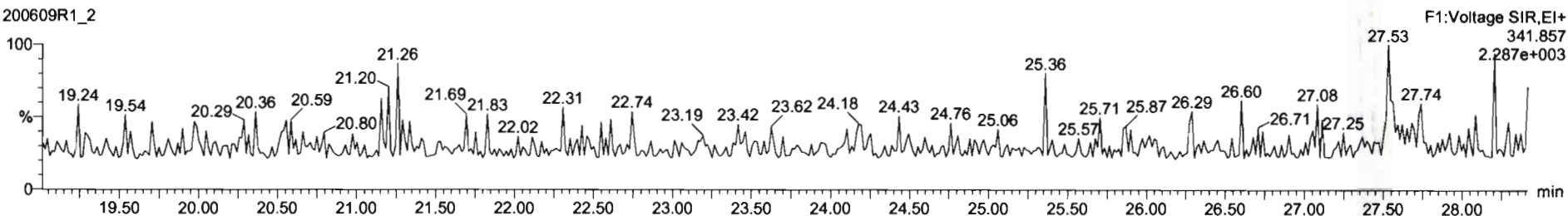
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200609R1\_2

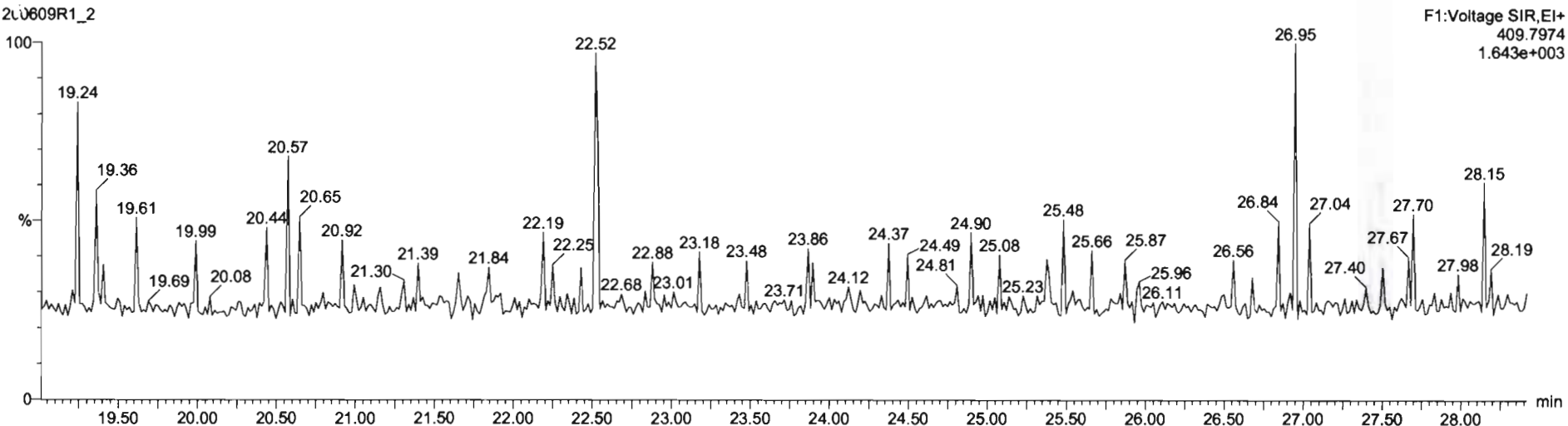


200609R1\_2



D>E6

200609R1\_2



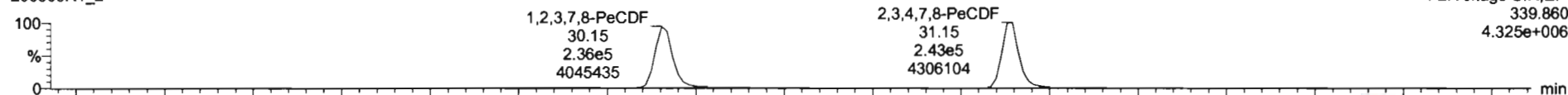
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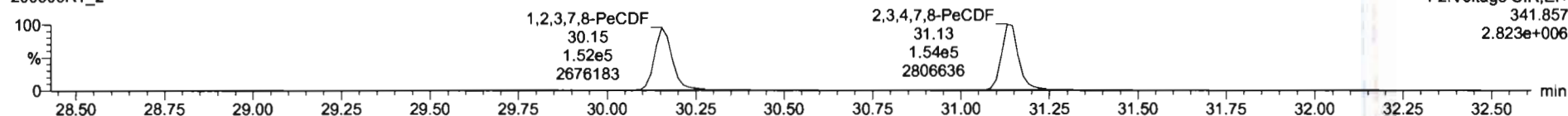
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**1,2,3,7,8-PeCDF**

200609R1\_2



200609R1\_2

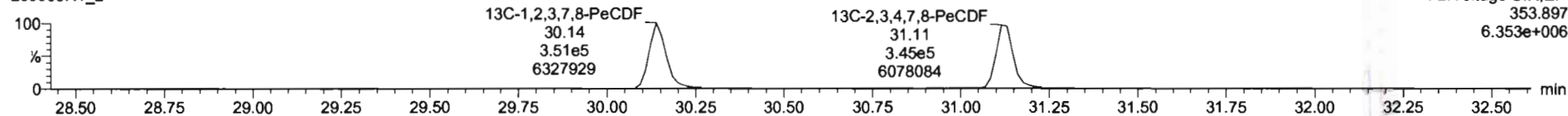


**13C-1,2,3,7,8-PeCDF**

200609R1\_2

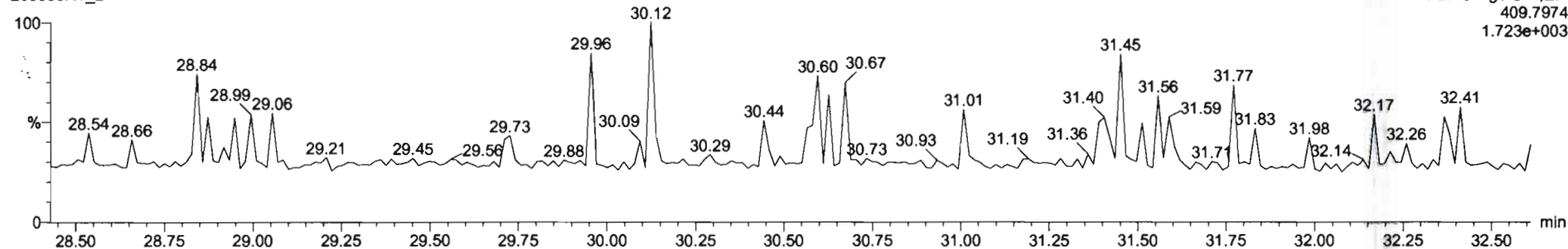


200609R1\_2



**DPE2**

200609R1\_2



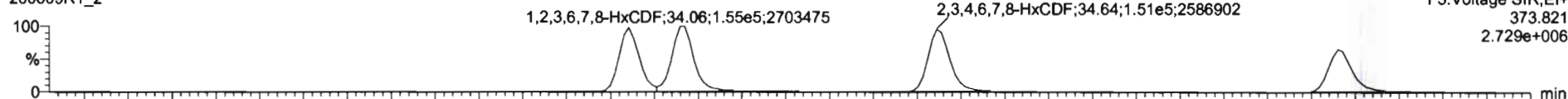
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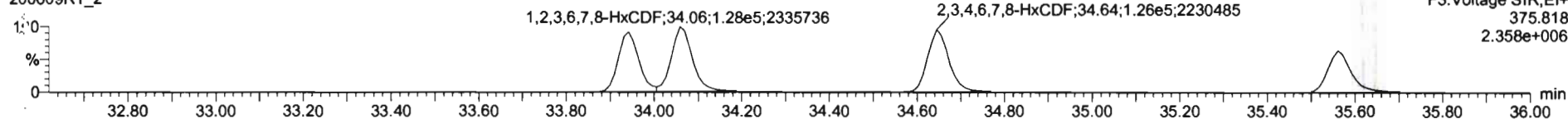
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**1,2,3,4,7,8-HxCDF**

200609R1\_2

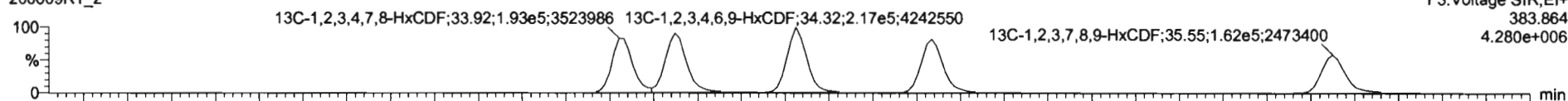


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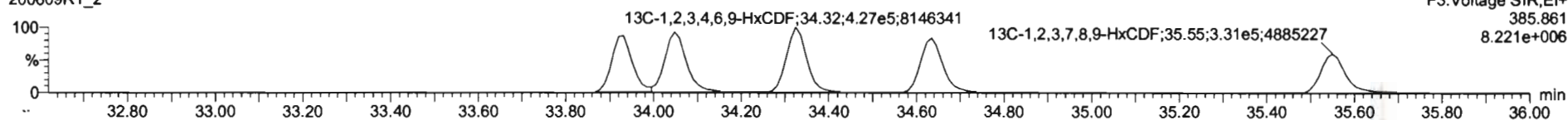


**13C-1,2,3,4,7,8-HxCDF**

200609R1\_2

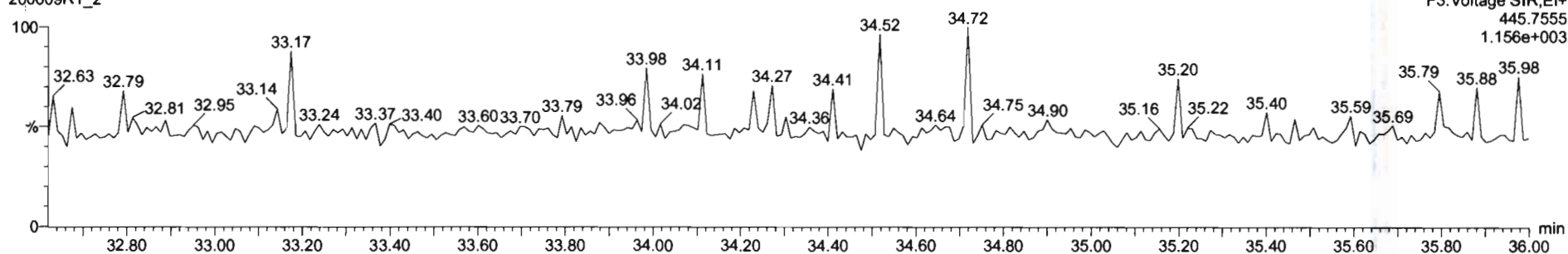


200609R1\_2



**DPE3**

200609R1\_2





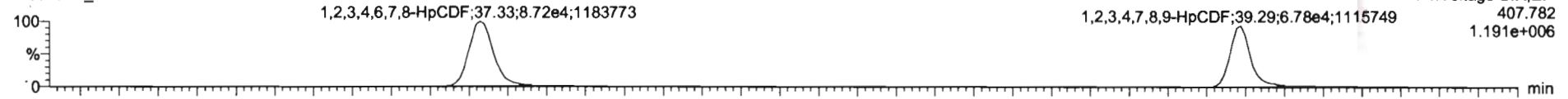
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

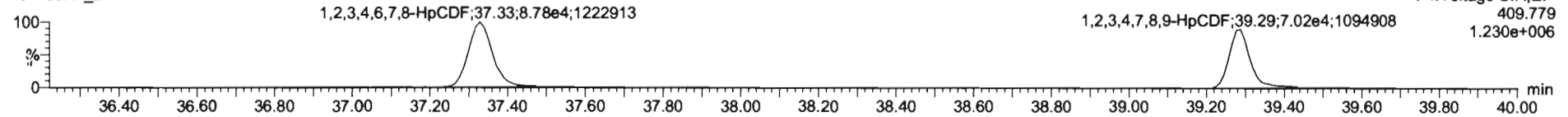
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**1,2,3,4,6,7,8-HpCDF**

200609R1\_2

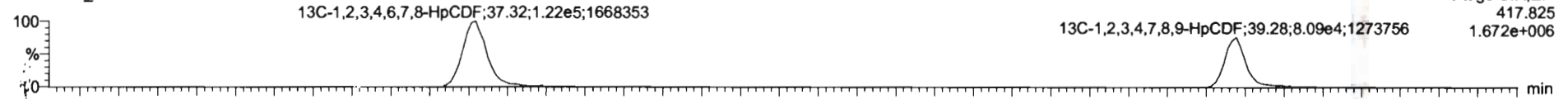


200609R1\_2

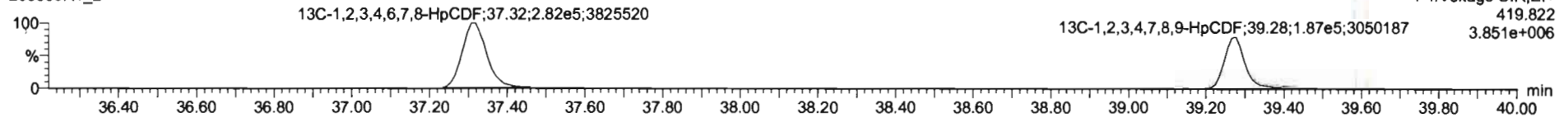


**13C-1,2,3,4,6,7,8-HpCDF**

200609R1\_2

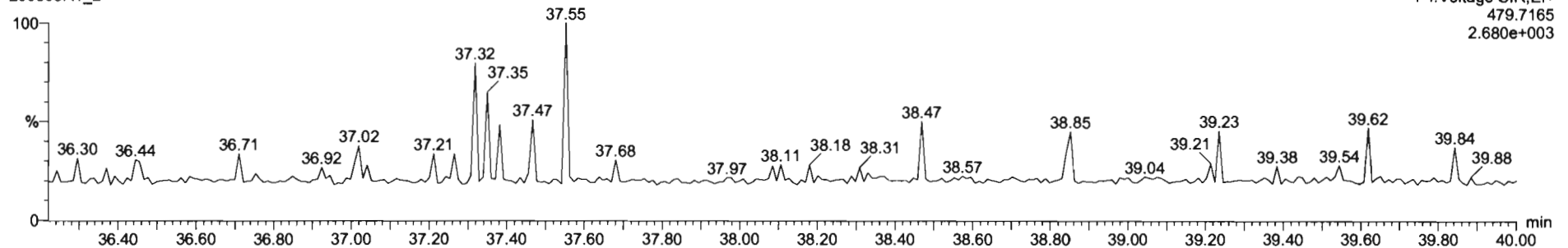


200609R1\_2

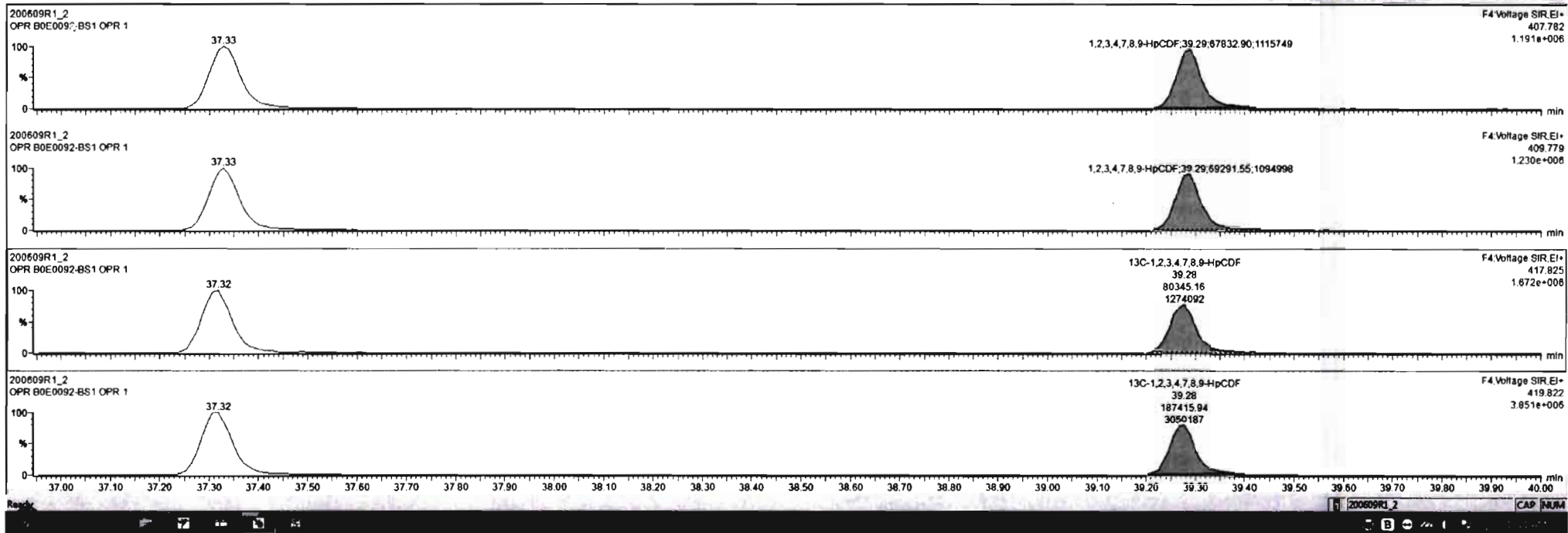


**DPE4**

200609R1\_2



Name	Area	RA	July	FWP	Initial	RT	FWP	Conc.	%Rec	DL	EWPC
1 2,3,7,8-TCDD	6.86e4	0.73	NO	0.89	1.000	26.47	1.001	183		0.906	183
2 1,2,3,4,7,8-PeCDD	2.55e5	0.81	NO	0.91	1.000	31.45	1.001	930		2.22	930
3 1,2,3,4,7,8-HxCDD	2.16e5	1.24	NO	1.03	1.000	34.81	1.000	950		3.20	950
4 1,2,3,6,7,8-HxCDD	2.37e5	1.25	NO	0.89	1.000	34.82	1.000	965		3.22	965
5 1,2,3,7,8,9-HxCDD	2.08e5	1.22	NO	0.89	1.000	35.20	1.000	951		3.72	951
6 1,2,3,4,6,7,8-HpCDD	1.47e5	1.05	NO	0.88	1.000	36.73	1.000	906		3.51	906
7 OCDD	2.40e5	0.88	NO	0.91	1.000	41.72	1.000	1900		4.30	1900
8 2,3,7,8-TCDF	8.09e4	0.73	NO	0.75	1.000	25.57	1.001	198		0.711	198
9 1,2,3,7,8-PeCDF	3.88e5	1.56	NO	0.89	1.000	30.15	1.001	958		2.91	958
10 2,3,4,7,8-PeCDF	3.97e5	1.58	NO	0.83	1.000	31.15	1.000	948		2.71	948
11 1,2,3,4,7,8-HxCDF	2.54e5	1.21	NO	0.88	1.000	33.94	1.001	969		3.66	969
12 1,2,3,6,7,8-HxCDF	2.83e5	1.21	NO	0.89	1.000	34.08	1.000	993		3.38	993
13 2,3,4,6,7,8-HxCDF	2.77e5	1.20	NO	0.93	1.000	34.64	1.000	981		3.57	981
14 1,2,3,7,8,9-HxCDF	2.02e5	1.24	NO	0.87	1.000	35.56	1.000	944		5.26	944
15 1,2,3,4,6,7,8-HpCDF	1.75e5	0.99	NO	0.87	1.000	37.33	1.000	993		3.60	993
16 1,2,3,4,7,8,9-HpCDF	1.37e5	0.96	NO	1.01	1.000	38.33	1.000	1019		4.66	1019
17 OCDF	2.32e5	0.87	NO	0.81	1.000	41.91	1.000	1960		3.57	1960



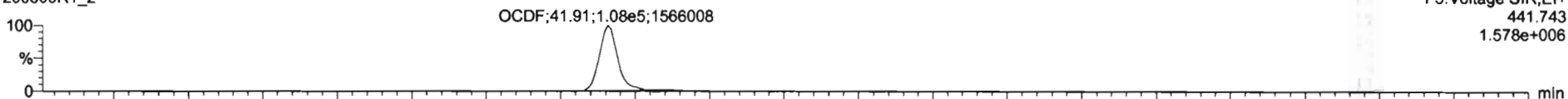
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

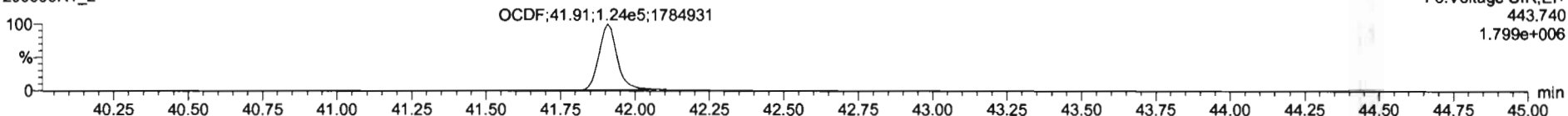
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**OCDF**

200609R1\_2

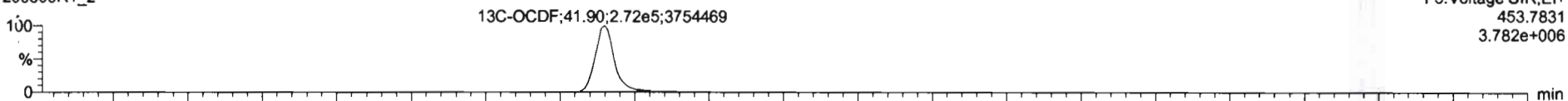


200609R1\_2

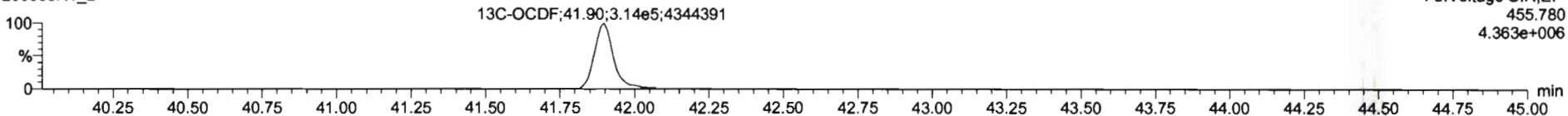


**13C-OCDF**

200609R1\_2

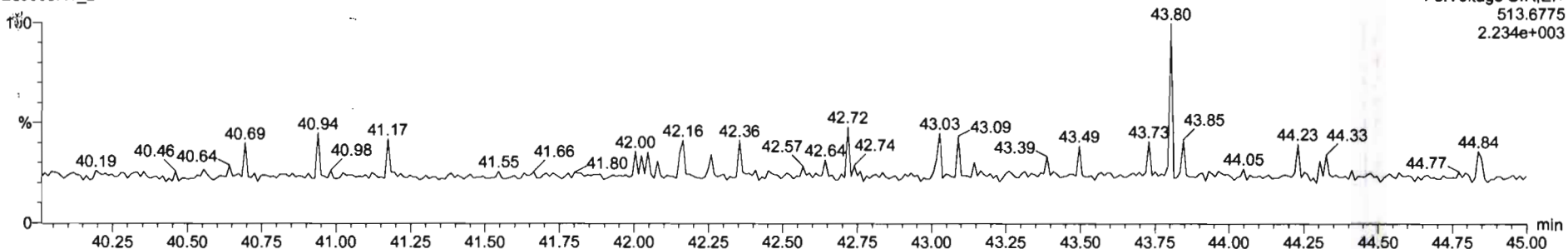


200609R1\_2



**DPE5**

200609R1\_2



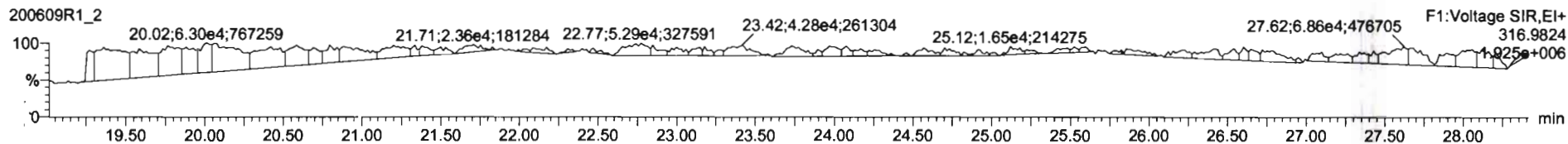


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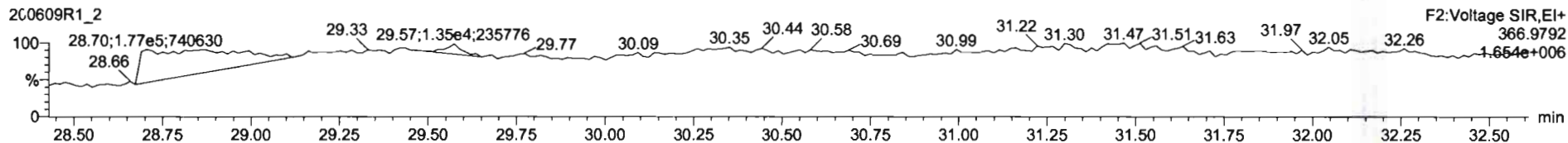
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Name: 200609R1\_2, Date: 09-Jun-2020, Time: 11:45:38, ID: B0E0092-BS1 OPR 1, Description: OPR

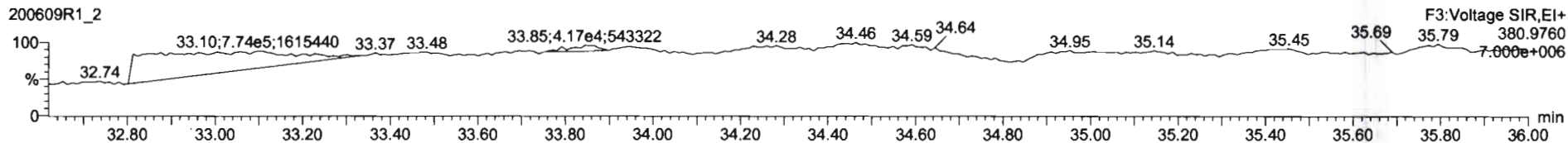
PFK1



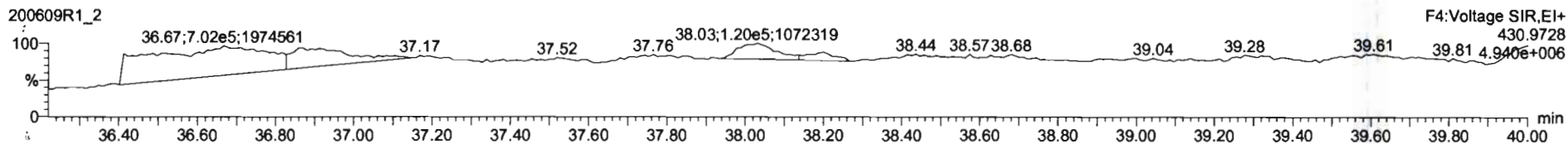
PFK2



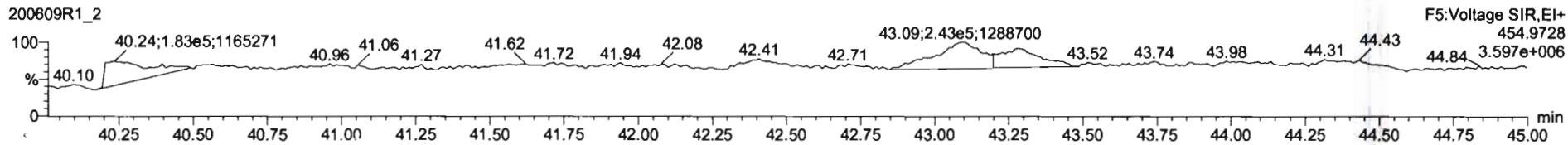
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200609R1\200609R1-7.qld

Last Altered: Wednesday, June 10, 2020 11:01:32 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 11:02:20 Pacific Daylight Time

*GRB 06/10/2020*

*CT 06/11/2020*

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

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.888	0.981	26.486		1.001				0.594	
2	1,2,3,7,8-PeCDD			NO	0.908	0.981	31.457		1.001				0.658	
3	1,2,3,4,7,8-HxCDD			NO	1.03	0.981	34.814		1.000				0.685	
4	1,2,3,6,7,8-HxCDD			NO	0.892	0.981	34.911		1.000				0.670	
5	1,2,3,7,8,9-HxCDD			NO	0.887	0.981	35.199		1.000				0.822	
6	1,2,3,4,6,7,8-HpCDD			NO	0.864	0.981	38.735		1.000				2.26	
7	OCDD	1.72e3	1.01	NO	0.914	0.981	41.706	41.73	1.000	1.001	15.665		3.30	15.7
8	2,3,7,8-TCDF			NO	0.751	0.981	25.582		1.001				0.367	
9	1,2,3,7,8-PeCDF			NO	0.893	0.981	30.159		1.001				0.407	
10	2,3,4,7,8-PeCDF			NO	0.935	0.981	31.161		1.001				0.366	
11	1,2,3,4,7,8-HxCDF			NO	0.884	0.981	33.931		1.000				0.516	
12	1,2,3,6,7,8-HxCDF			NO	0.889	0.981	34.058		1.000				0.493	
13	2,3,4,6,7,8-HxCDF			NO	0.934	0.981	34.669		1.001				0.523	
14	1,2,3,7,8,9-HxCDF			NO	0.871	0.981	35.550		1.000				0.797	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	0.981	37.355		1.001				0.827	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	0.981	39.277		1.000				0.906	
17	OCDF			NO	0.806	0.981	41.897		1.000				1.23	
18	13C-2,3,7,8-TCDD	8.19e5	0.78	NO	1.16	0.981	26.476	26.45	1.026	1.026	1971.0	96.7	2.54	
19	13C-1,2,3,7,8-PeCDD	5.99e5	0.62	NO	0.849	0.981	31.656	31.43	1.227	1.219	1965.8	96.4	3.53	
20	13C-1,2,3,4,7,8-HxCDD	4.07e5	1.29	NO	0.779	0.981	34.809	34.80	1.014	1.014	1849.2	90.7	7.31	
21	13C-1,2,3,6,7,8-HxCDD	5.20e5	1.27	NO	1.02	0.981	34.922	34.91	1.017	1.017	1808.3	88.7	5.60	
22	13C-1,2,3,7,8,9-HxCDD	4.57e5	1.26	NO	0.903	0.981	35.193	35.19	1.025	1.025	1790.2	87.8	6.31	
23	13C-1,2,3,4,6,7,8-HpCDD	3.15e5	0.97	NO	0.689	0.981	38.715	38.72	1.128	1.128	1615.2	79.2	4.81	
24	13C-OCDD	4.91e5	0.88	NO	0.652	0.981	41.736	41.71	1.216	1.215	2660.0	65.2	5.23	
25	13C-2,3,7,8-TCDF	1.01e6	0.79	NO	1.06	0.981	25.519	25.56	0.989	0.991	1916.1	94.0	3.27	
26	13C-1,2,3,7,8-PeCDF	8.65e5	1.61	NO	0.838	0.981	30.041	30.14	1.165	1.168	2073.4	102	4.61	
27	13C-2,3,4,7,8-PeCDF	8.57e5	1.59	NO	0.817	0.981	30.993	31.13	1.202	1.207	2108.9	103	4.74	
28	13C-1,2,3,4,7,8-HxCDF	5.19e5	0.49	NO	1.01	0.981	33.941	33.93	0.989	0.989	1819.8	89.3	7.86	
29	13C-1,2,3,6,7,8-HxCDF	5.82e5	0.49	NO	1.17	0.981	34.064	34.05	0.992	0.992	1763.2	86.5	6.78	
30	13C-2,3,4,6,7,8-HxCDF	5.41e5	0.52	NO	1.02	0.981	34.637	34.63	1.009	1.009	1872.9	91.9	7.75	
31	13C-1,2,3,7,8,9-HxCDF	4.28e5	0.48	NO	0.860	0.981	35.537	35.55	1.035	1.036	1762.5	86.5	9.21	

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-7.qld

Last Altered: Wednesday, June 10, 2020 11:01:32 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 11:02:20 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.67e5	0.42	NO	0.774	0.981	37.284	37.32	1.086	1.087	1673.3	82.1	5.21	
33	13C-1,2,3,4,7,8,9-HpCDF	2.39e5	0.40	NO	0.521	0.981	39.312	39.28	1.145	1.144	1619.1	79.4	7.74	
34	13C-OCDF	5.31e5	0.91	NO	0.746	0.981	41.907	41.90	1.221	1.221	2518.6	61.8	5.15	
35	37Cl-2,3,7,8-TCDD	3.19e5			1.04	0.981	26.507	26.47	1.028	1.026	857.12	105	0.635	
36	13C-1,2,3,4-TCDD	7.32e5	0.80	NO	1.00	0.981	25.890	25.80	1.000	1.000	2038.5	100	2.94	
37	13C-1,2,3,4-TCDF	1.01e6	0.78	NO	1.00	0.981	24.360	24.10	1.000	1.000	2038.5	100	3.46	
38	13C-1,2,3,4,6,9-HxCDF	5.77e5	0.51	NO	1.00	0.981	34.420	34.33	1.000	1.000	2038.5	100	7.92	
39	Total Tetra-Dioxins				0.888	0.981	24.620		0.000				0.322	
40	Total Penta-Dioxins				0.908	0.981	29.960		0.000				0.327	
41	Total Hexa-Dioxins				0.892	0.981	33.635		0.000				0.378	
42	Total Hepta-Dioxins				0.864	0.981	37.640		0.000				1.31	
43	Total Tetra-Furans				0.751	0.981	23.610		0.000		0.00000		0.212	0.396
44	1st Func. Penta-Furans				0.893	0.981	27.580		0.000				0.0821	
45	Total Penta-Furans				0.893	0.981	29.275		0.000				0.187	
46	Total Hexa-Furans				0.934	0.981	33.555		0.000				0.299	
47	Total Hepta-Furans				0.873	0.981	37.835		0.000				0.458	

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-7.qld

Last Altered: Wednesday, June 10, 2020 11:01:32 Pacific Daylight Time  
 Printed: Wednesday, June 10, 2020 11:02:20 Pacific Daylight Time

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

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

**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

**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
Total Tetra-Furans	25.78	1.391e3	1.775e3	8.034e1	8.330e1	0.96	YES	0.000e0	0.00000	0.39633	0.212

**Penta-Furans function 1**

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-7.qld

Last Altered: Wednesday, June 10, 2020 11:01:32 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 11:02:20 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

Penta-Furans

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

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

Hepta-Furans

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

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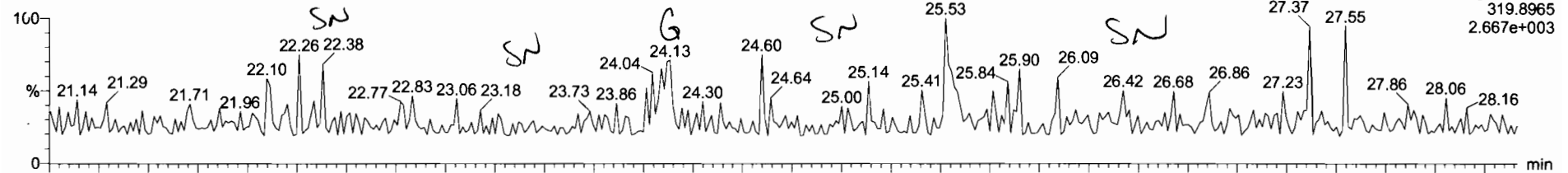
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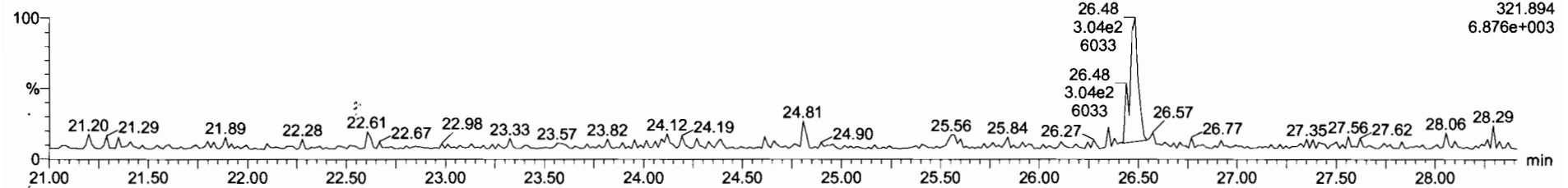
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**2,3,7,8-TCDD**

200609R1\_7

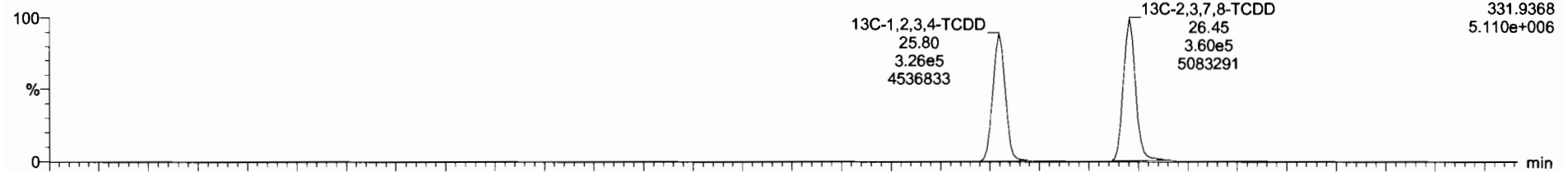


200609R1\_7

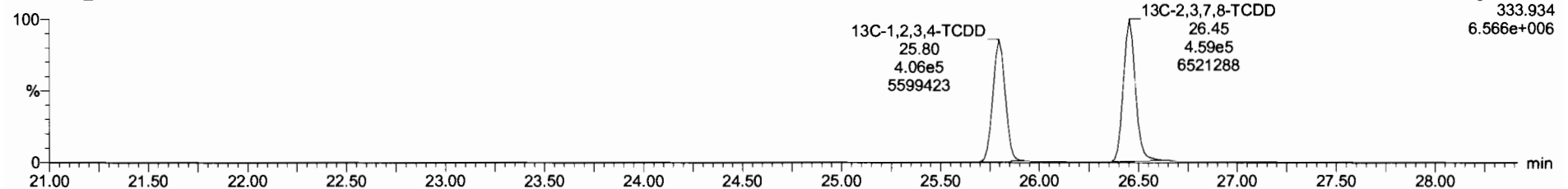


**13C-2,3,7,8-TCDD**

200609R1\_7



200609R1\_7



Dataset: Untitled

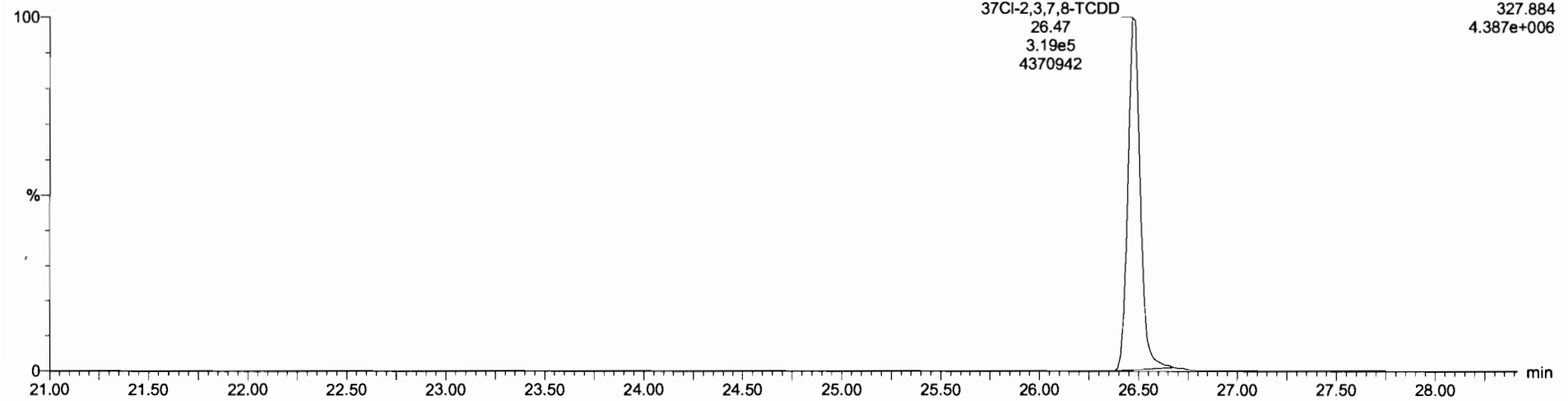
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

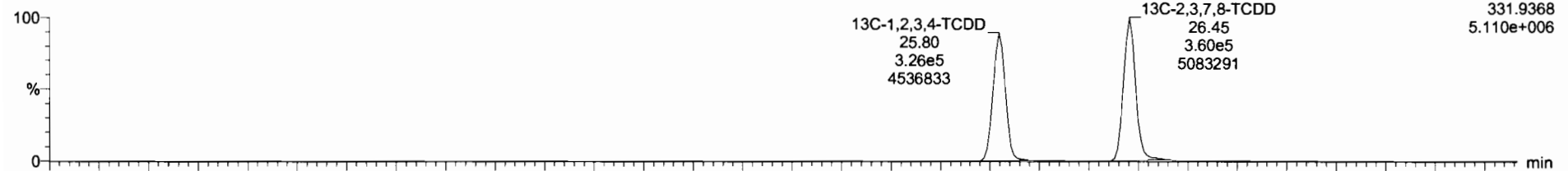
**37Cl-2,3,7,8-TCDD**

200609R1\_7

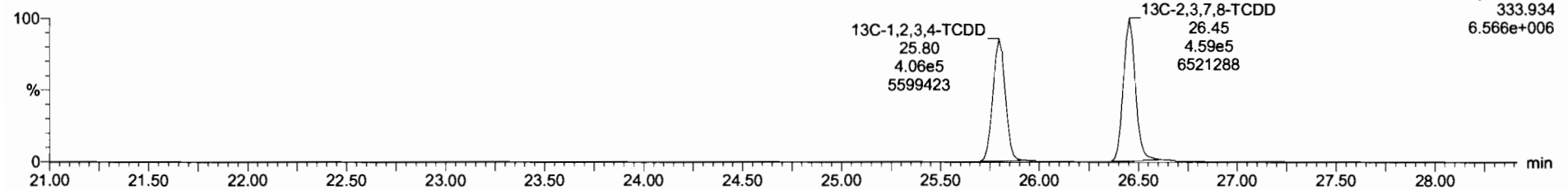


**13C-1,2,3,4-TCDD**

200609R1\_7



200609R1\_7



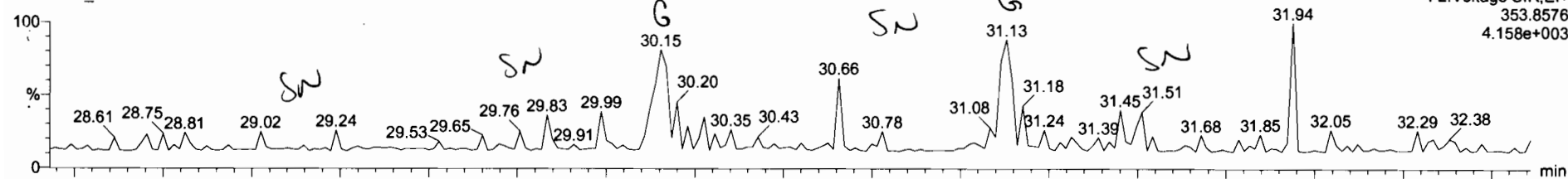
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

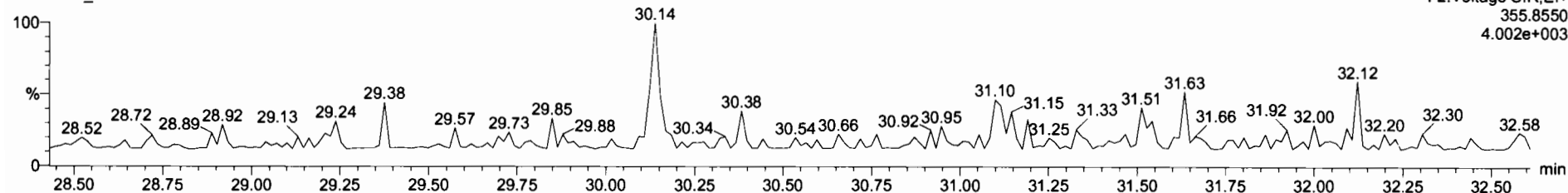
1,2,3,7,8-PeCDD

200609R1\_7



F2:Voltage SIR,EI+  
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4.158e+003

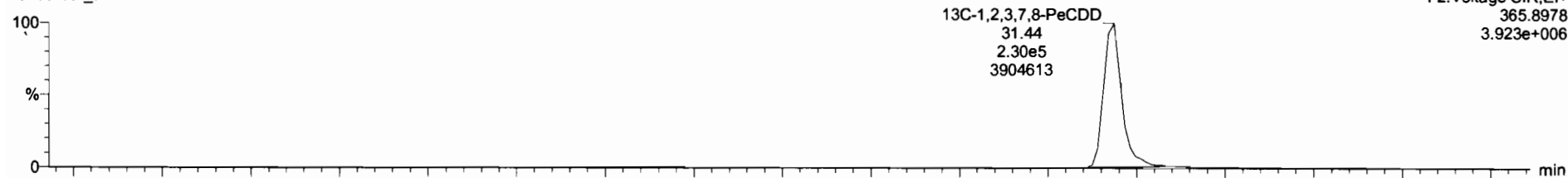
200609R1\_7



F2:Voltage SIR,EI+  
355.8550  
4.002e+003

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

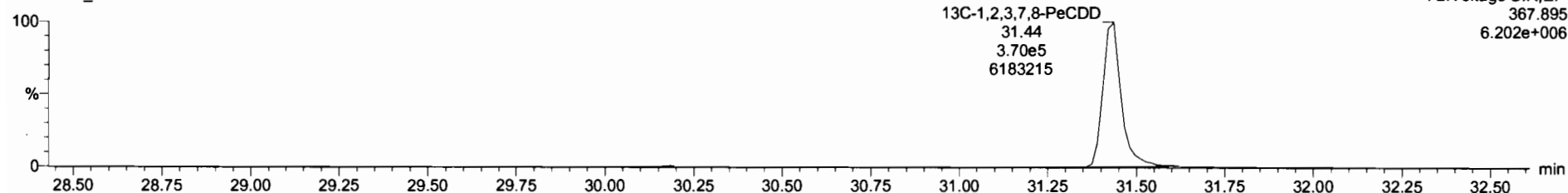
200609R1\_7



13C-1,2,3,7,8-PeCDD  
31.44  
2.30e5  
3904613

F2:Voltage SIR,EI+  
365.8978  
3.923e+006

200609R1\_7



13C-1,2,3,7,8-PeCDD  
31.44  
3.70e5  
6183215

F2:Voltage SIR,EI+  
367.895  
6.202e+006



Dataset: Untitled

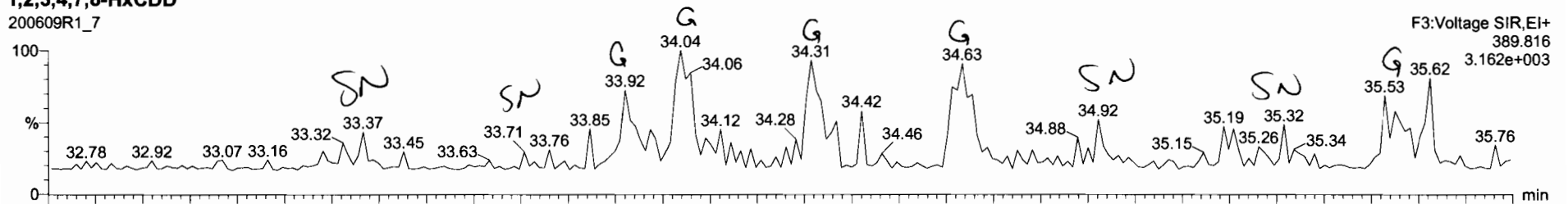
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

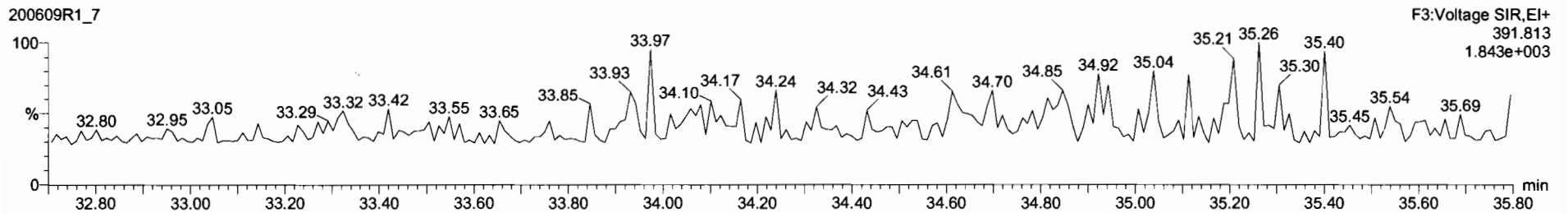
Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

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

200609R1\_7

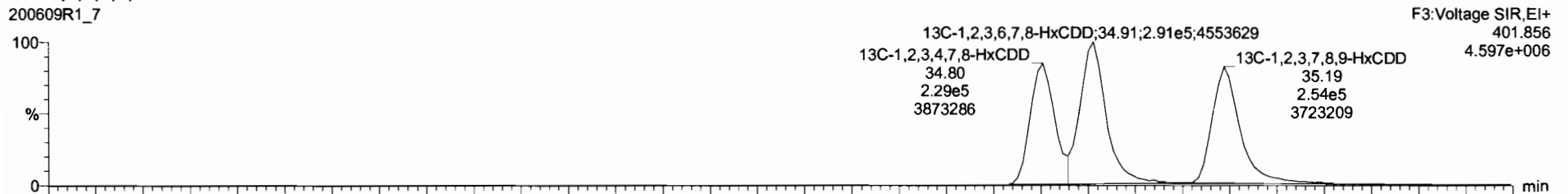


200609R1\_7

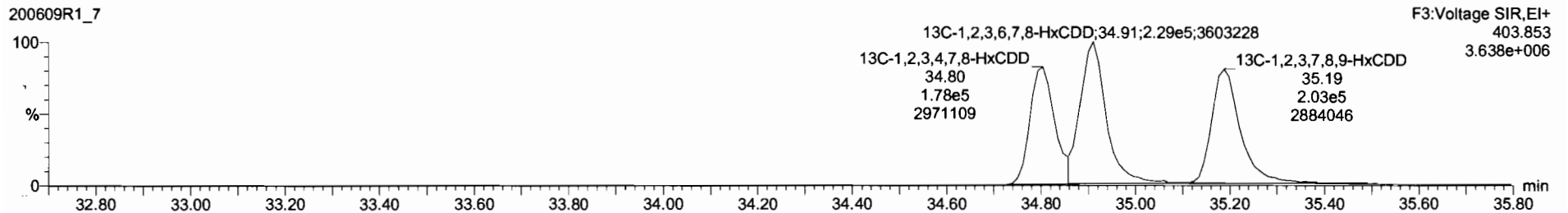


13C-1,2,3,4,7,8-HxCDD

200609R1\_7



200609R1\_7



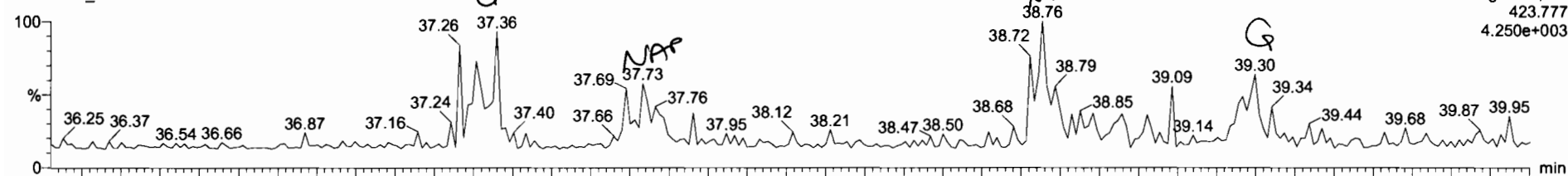
Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

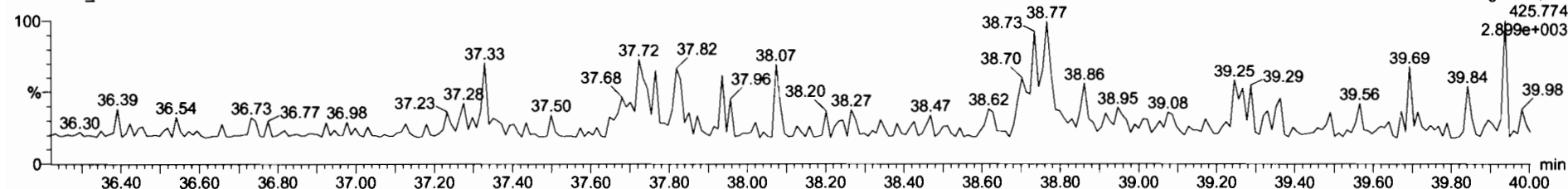
1,2,3,4,6,7,8-HpCDD

200609R1\_7



F4:Voltage SIR,El+  
423.777  
4.250e+003

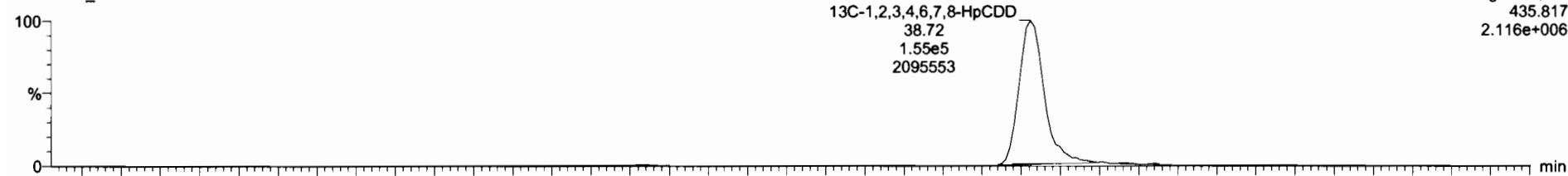
200609R1\_7



F4:Voltage SIR,El+  
425.774  
2.899e+003

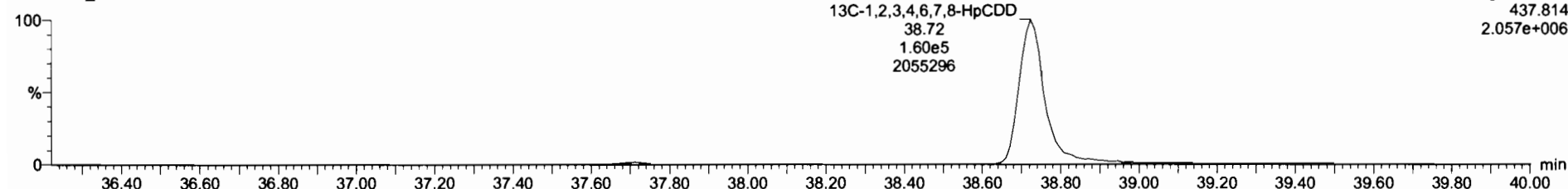
13C-1,2,3,4,6,7,8-HpCDD

200609R1\_7



F4:Voltage SIR,El+  
435.817  
2.116e+006

200609R1\_7

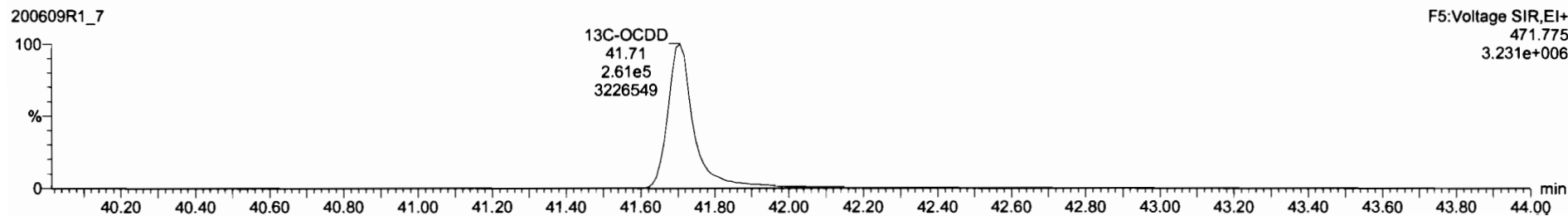
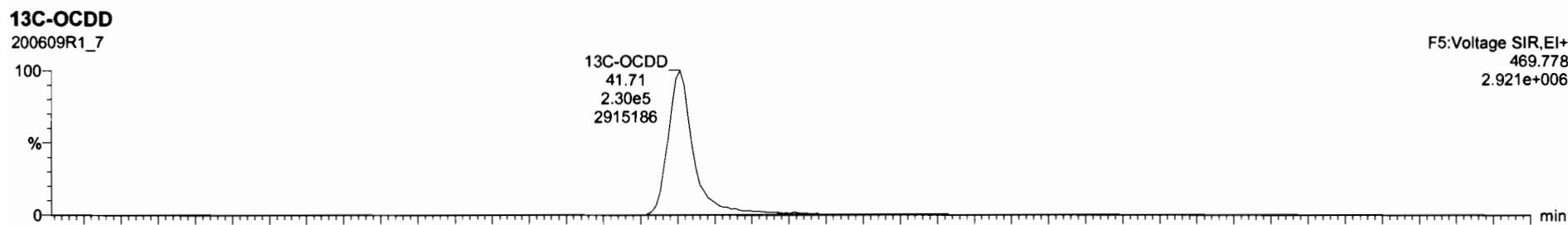
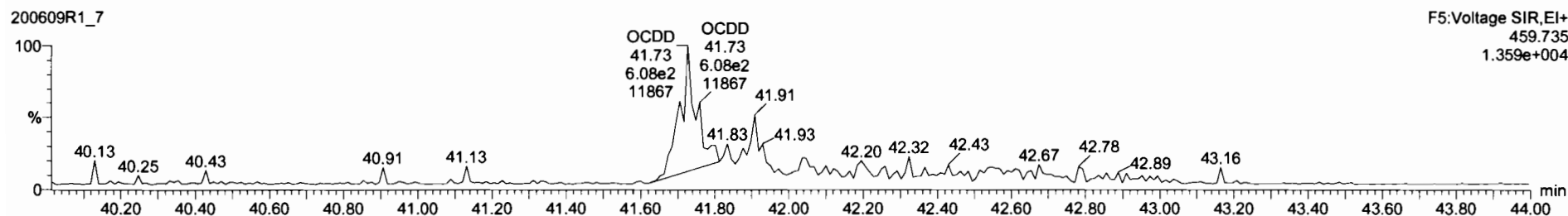
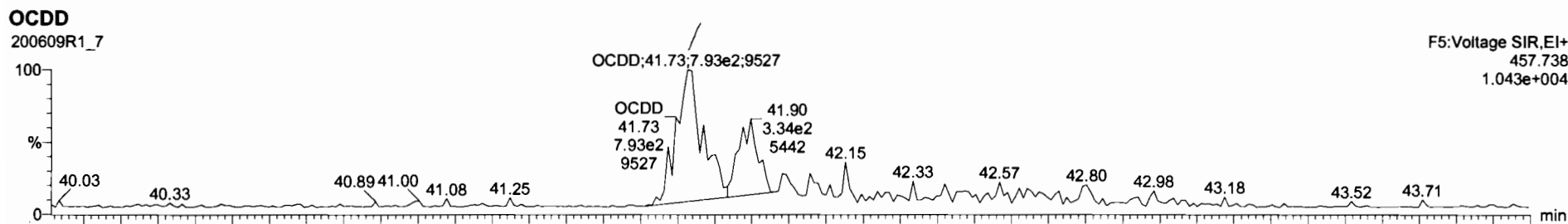


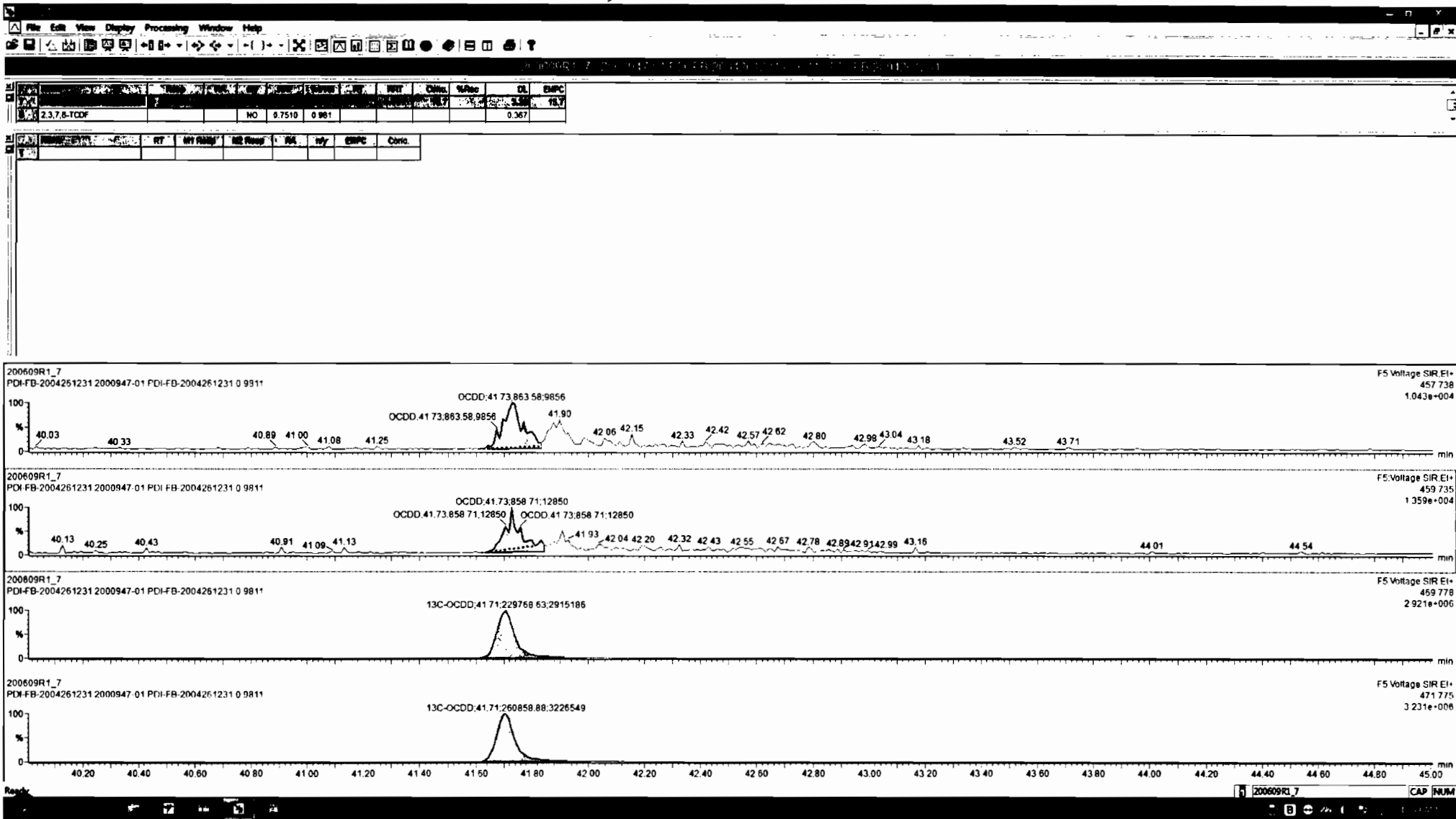
F4:Voltage SIR,El+  
437.814  
2.057e+006

Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231



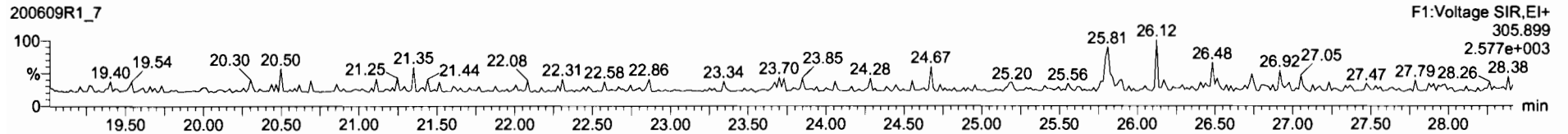
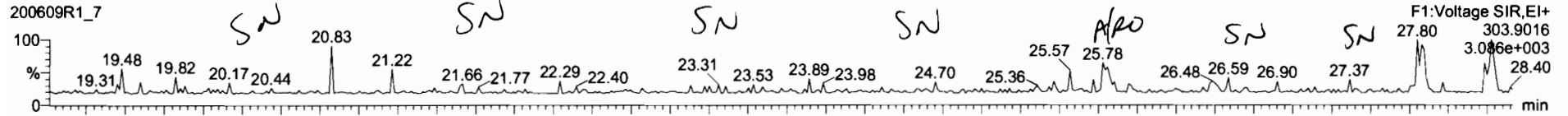


Dataset: Untitled

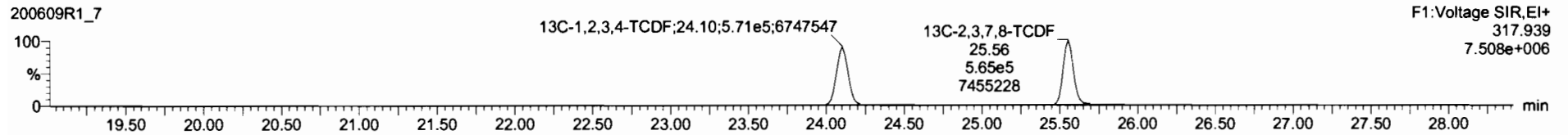
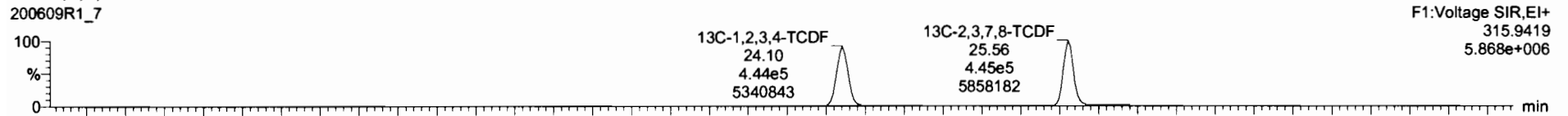
Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

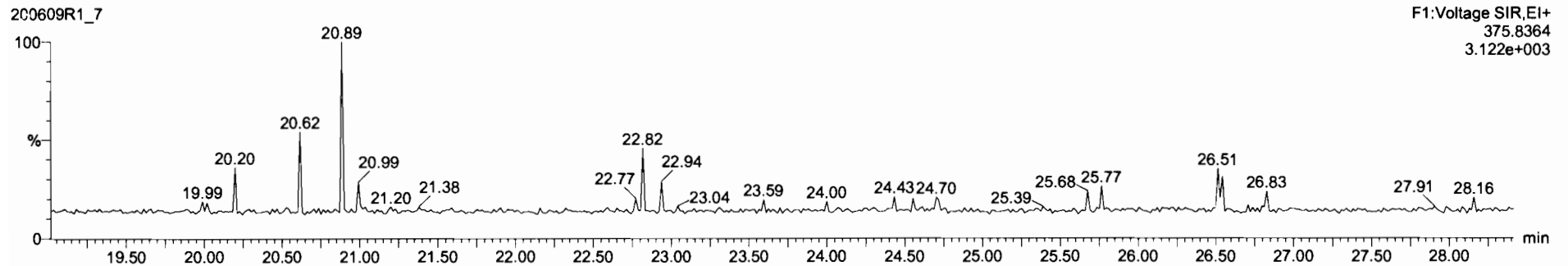
**2,3,7,8-TCDF**

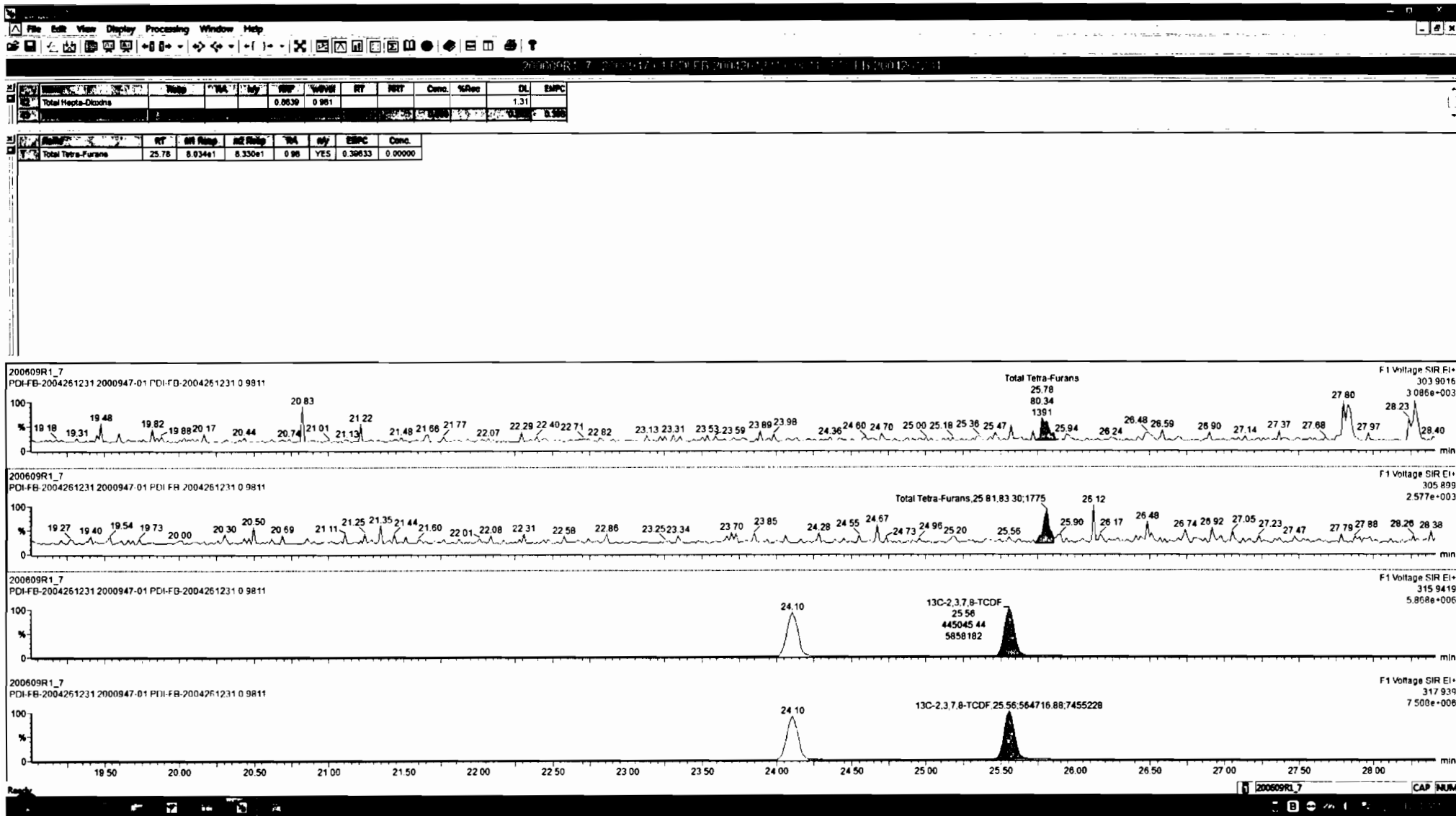


**13C-2,3,7,8-TCDF**



**DPE1**





Dataset: Untitled

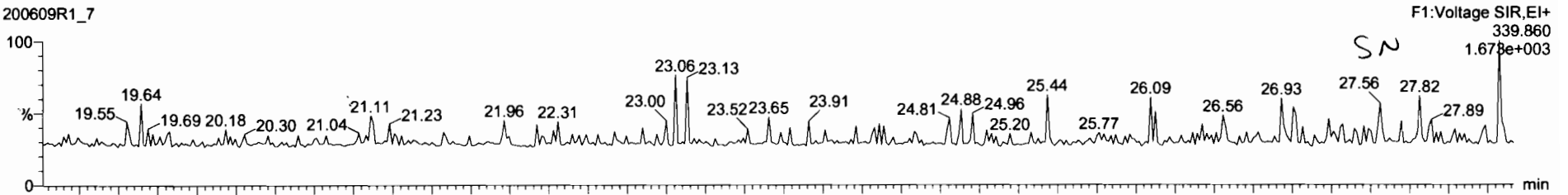
Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

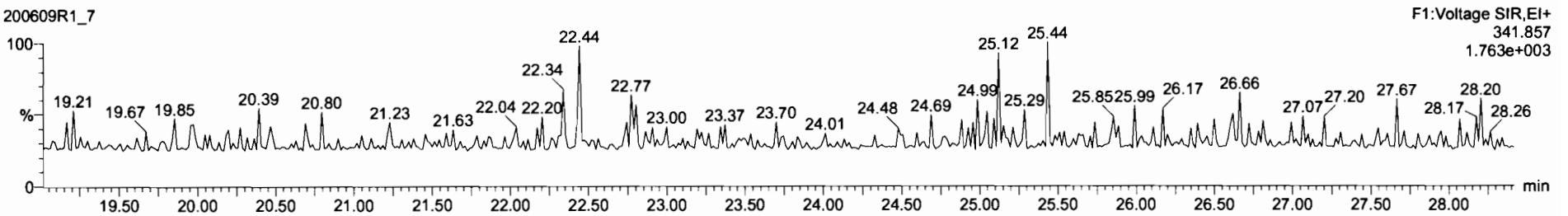
Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

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200609R1\_7

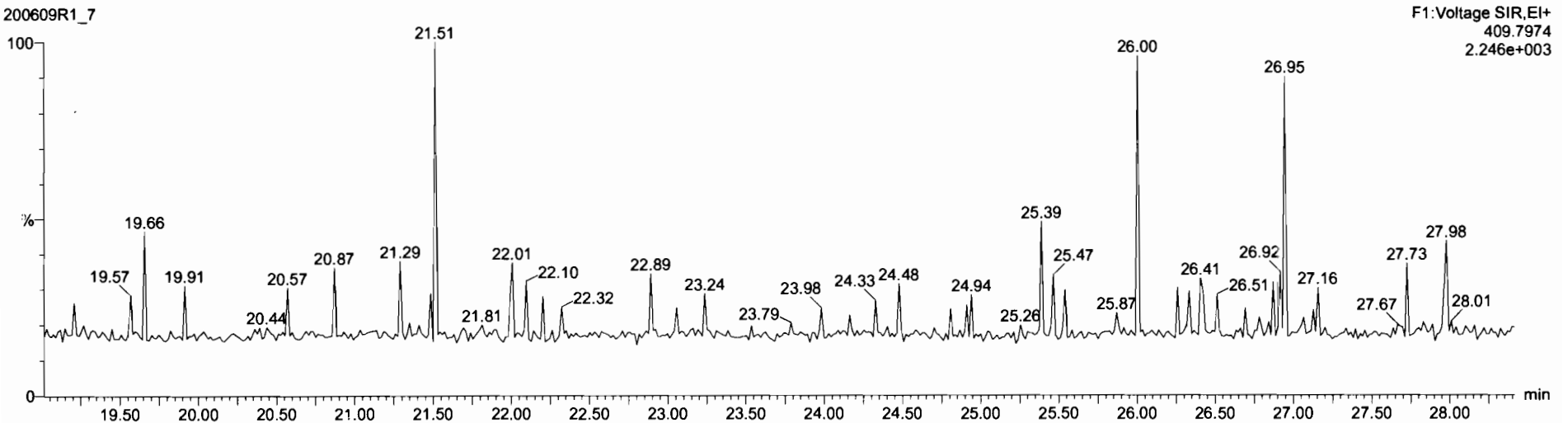


200609R1\_7



DPE6

200609R1\_7



Dataset: Untitled

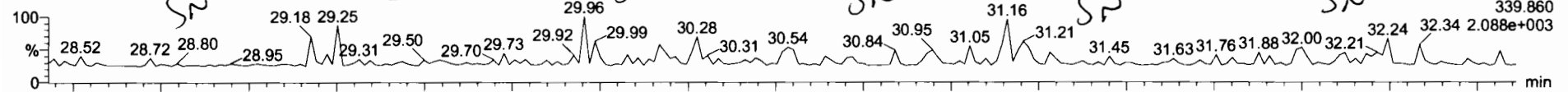
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

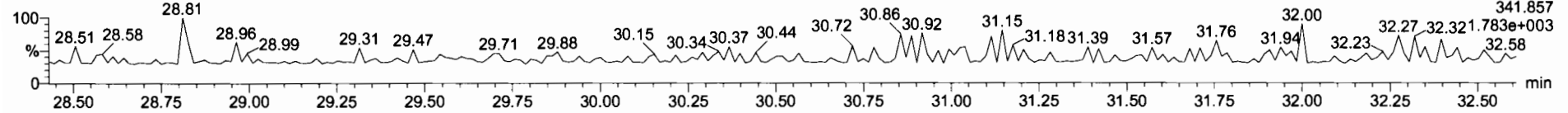
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**1,2,3,7,8-PeCDF**

200609R1\_7

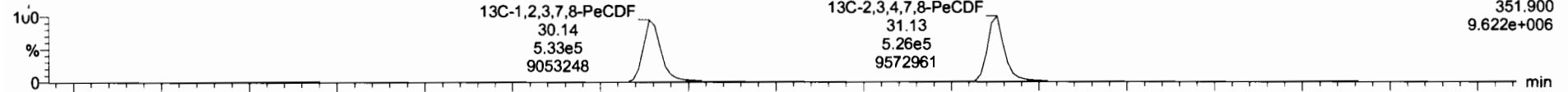


200609R1\_7

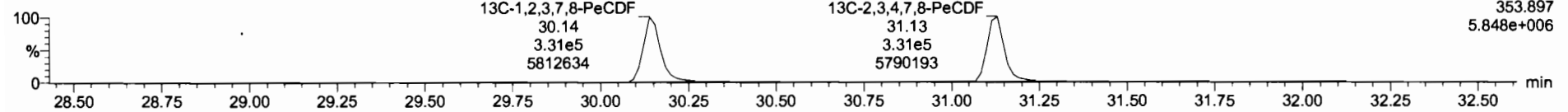


**13C-1,2,3,7,8-PeCDF**

200609R1\_7

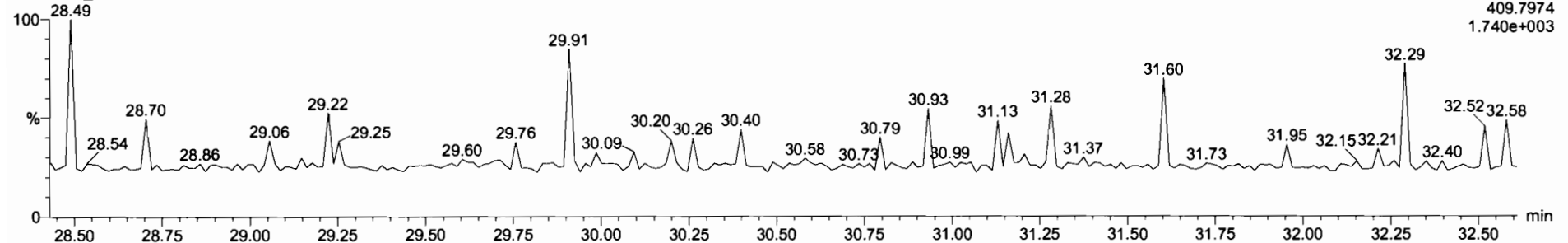


200609R1\_7



**DPE2**

200609R1\_7





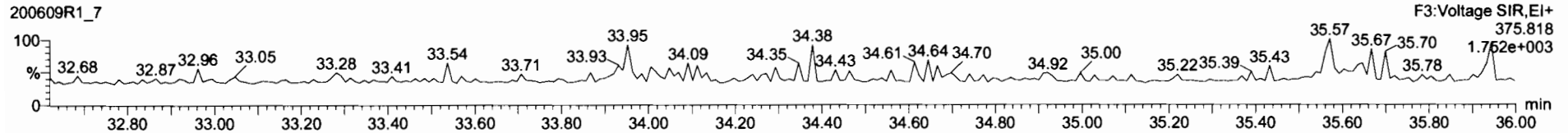
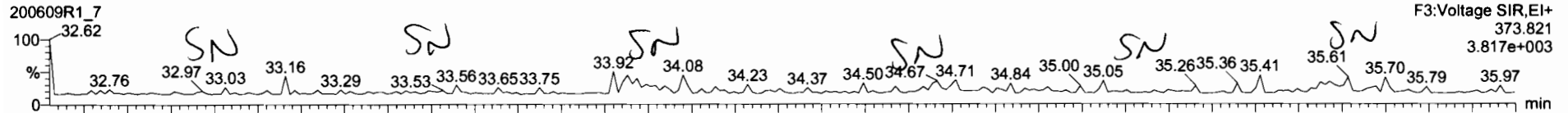
Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time

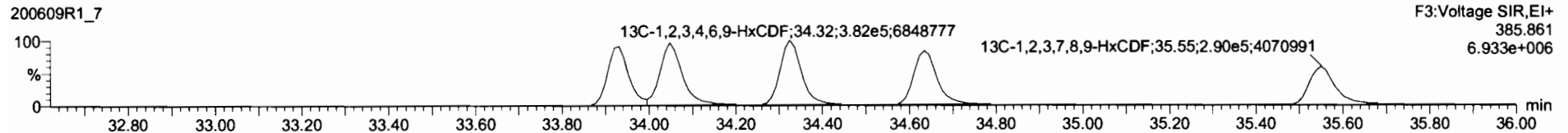
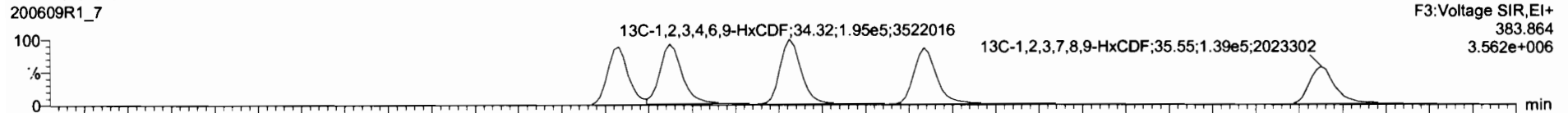
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

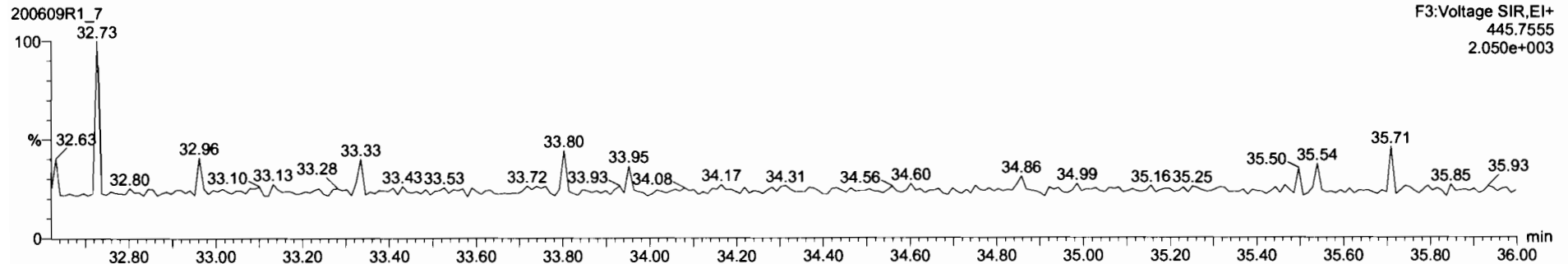
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



Dataset: Untitled

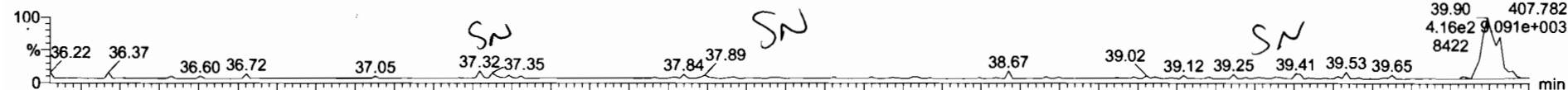
Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

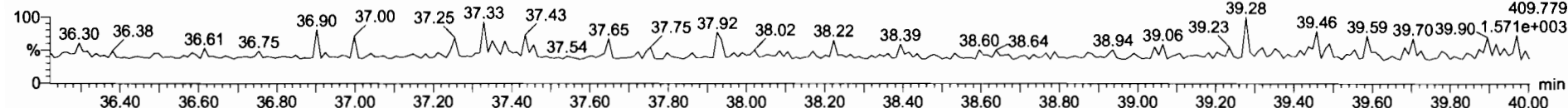
Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

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

200609R1\_7



200609R1\_7

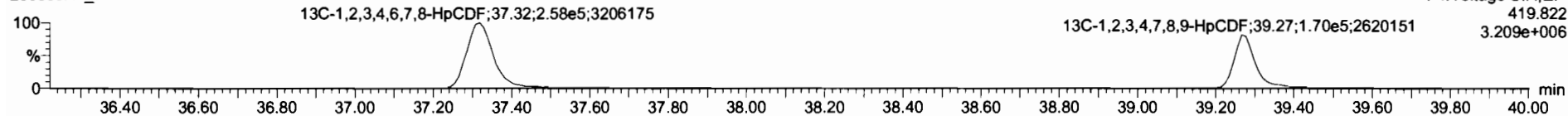


**13C-1,2,3,4,6,7,8-HpCDF**

200609R1\_7

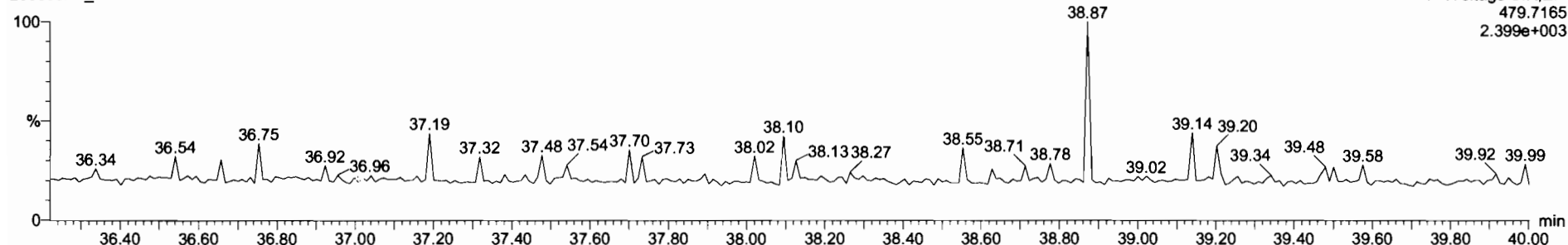


200609R1\_7



**DPE4**

200609R1\_7

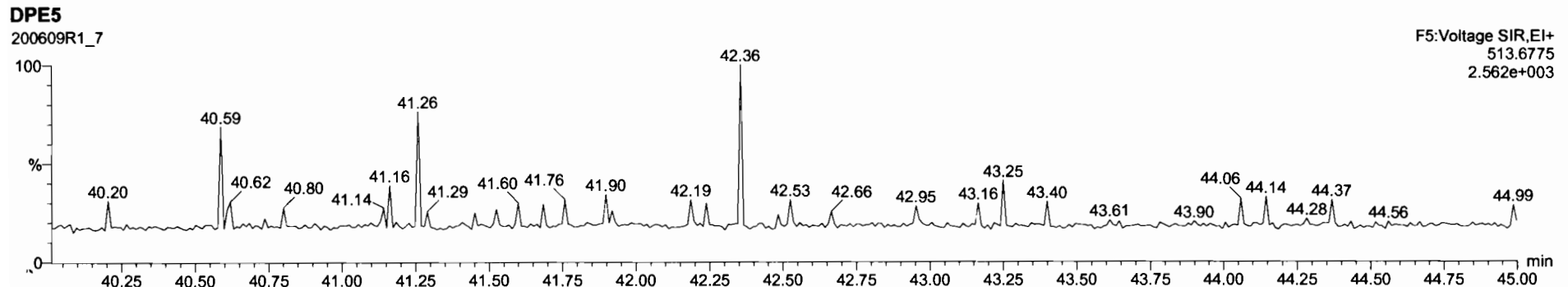
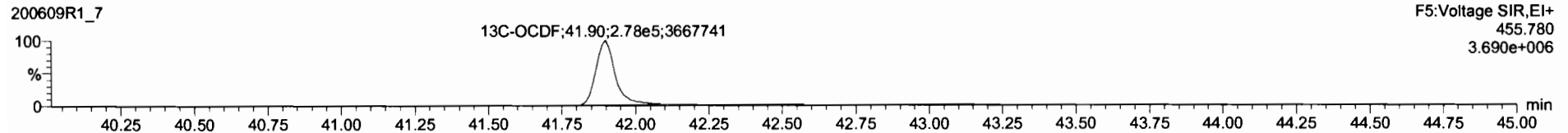
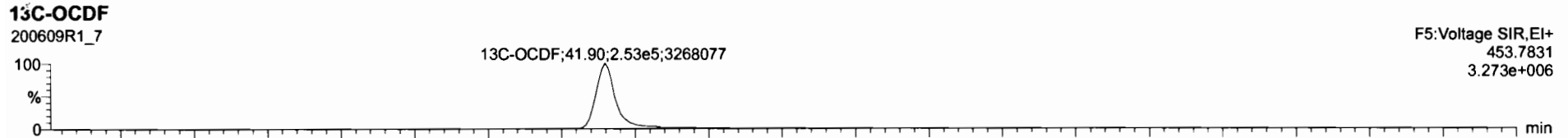
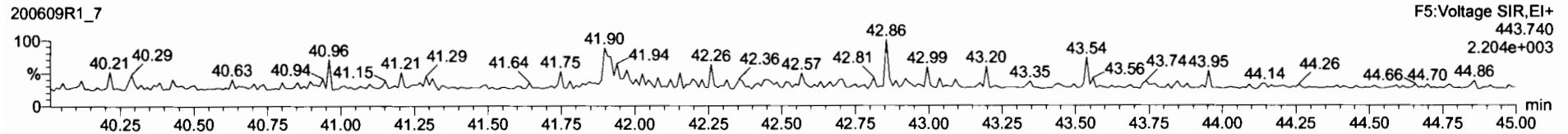
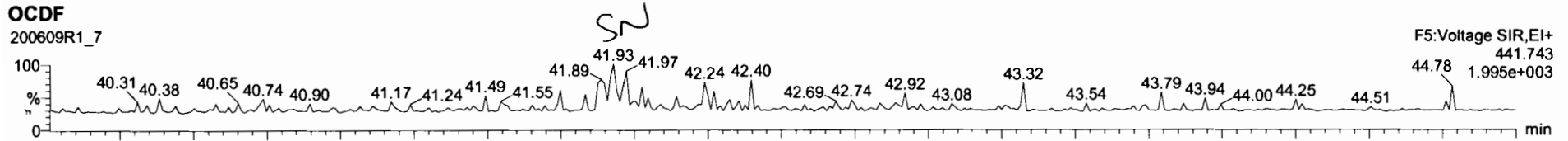


Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231



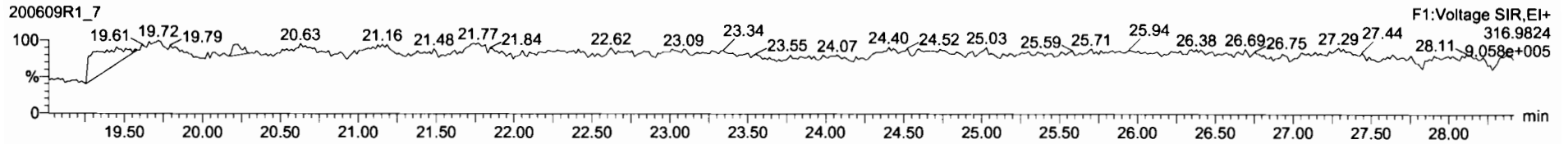
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Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time

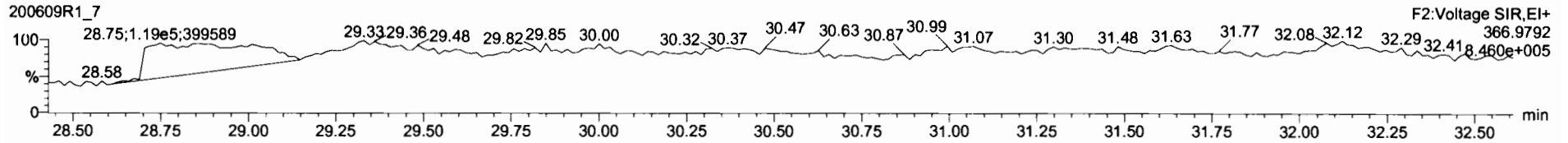
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

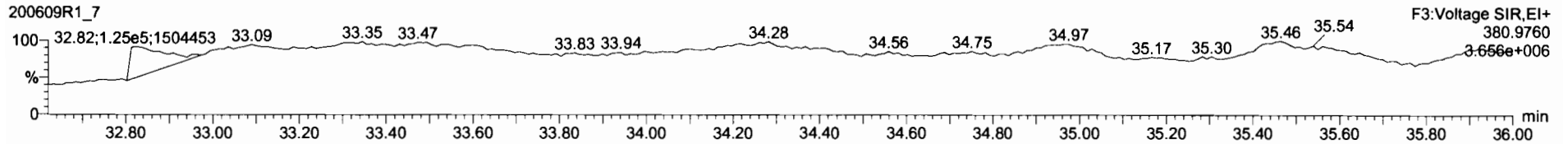
**PFK1**



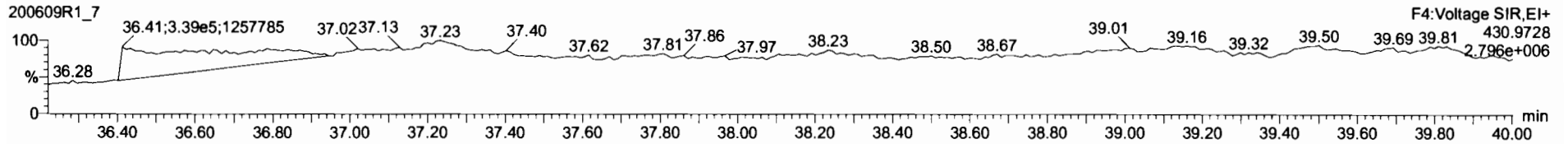
**PFK2**



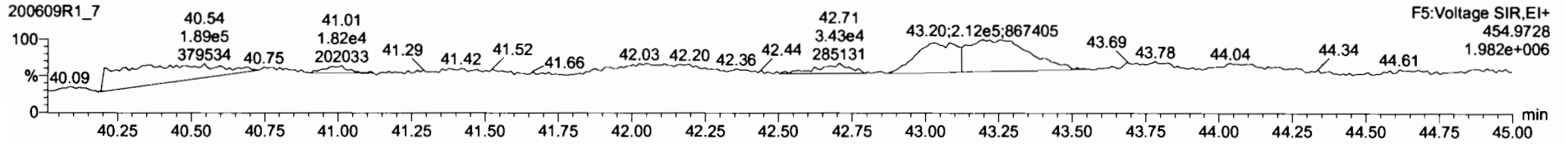
**PFK3**



**PFK4**



**PFK5**



Dataset: U:\VG12.PRO\Results\200609R1\200609R1-8.qld

Last Altered: Wednesday, June 10, 2020 11:05:42 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 11:08:22 Pacific Daylight Time

*GRB 06/10/2020*

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

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

*CT 06/11/2020*

Name: 200609R1\_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	SNPC
1	2,3,7,8-TCDD			NO	0.888	0.956	26.486		1.001				0.524	
2	1,2,3,7,8-PeCDD			NO	0.908	0.956	31.457		1.001				0.576	
3	1,2,3,4,7,8-HxCDD			NO	1.03	0.956	34.814		1.000				0.696	
4	1,2,3,6,7,8-HxCDD			NO	0.892	0.956	34.911		1.000				0.703	
5	1,2,3,7,8,9-HxCDD			NO	0.887	0.956	35.199		1.000				0.838	
6	1,2,3,4,6,7,8-HpCDD			NO	0.864	0.956	38.746		1.000				1.73	
7	OCDD	1.58e3	0.82	NO	0.914	0.956	41.717	41.73	1.000	1.000	13.767		2.48	13.8
8	2,3,7,8-TCDF			NO	0.751	0.956	25.582		1.001				0.344	
9	1,2,3,7,8-PeCDF			NO	0.893	0.956	30.175		1.001				0.358	
10	2,3,4,7,8-PeCDF			NO	0.935	0.956	31.161		1.001				0.337	
11	1,2,3,4,7,8-HxCDF			NO	0.884	0.956	33.931		1.000				0.452	
12	1,2,3,6,7,8-HxCDF			NO	0.889	0.956	34.058		1.000				0.444	
13	2,3,4,6,7,8-HxCDF			NO	0.934	0.956	34.669		1.001				0.466	
14	1,2,3,7,8,9-HxCDF			NO	0.871	0.956	35.550		1.000				0.729	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	0.956	37.355		1.001				0.792	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	0.956	39.278		1.000				0.898	
17	OCDF			NO	0.806	0.956	41.908		1.000				1.52	
18	13C-2,3,7,8-TCDD	8.58e5	0.75	NO	1.16	0.956	26.491	26.45	1.026	1.025	1800.4	86.1	2.47	
19	13C-1,2,3,7,8-PeCDD	6.39e5	0.64	NO	0.849	0.956	31.674	31.43	1.227	1.218	1826.5	87.3	2.47	
20	13C-1,2,3,4,7,8-HxCDD	4.36e5	1.29	NO	0.779	0.956	34.809	34.80	1.014	1.014	1735.5	83.0	5.41	
21	13C-1,2,3,6,7,8-HxCDD	5.71e5	1.25	NO	1.02	0.956	34.922	34.91	1.017	1.017	1741.2	83.2	4.15	
22	13C-1,2,3,7,8,9-HxCDD	5.06e5	1.25	NO	0.903	0.956	35.193	35.19	1.025	1.025	1738.3	83.1	4.67	
23	13C-1,2,3,4,6,7,8-HpCDD	3.42e5	0.99	NO	0.689	0.956	38.715	38.73	1.128	1.128	1540.0	73.6	5.09	
24	13C-OCDD	5.26e5	0.86	NO	0.652	0.956	41.736	41.72	1.216	1.215	2502.2	59.8	4.87	
25	13C-2,3,7,8-TCDF	1.02e6	0.77	NO	1.06	0.956	25.534	25.56	0.989	0.990	1697.4	81.1	3.36	
26	13C-1,2,3,7,8-PeCDF	9.07e5	1.58	NO	0.838	0.956	30.058	30.15	1.165	1.168	1908.7	91.2	5.00	
27	13C-2,3,4,7,8-PeCDF	8.99e5	1.60	NO	0.817	0.956	31.011	31.13	1.202	1.206	1942.0	92.8	5.13	
28	13C-1,2,3,4,7,8-HxCDF	5.51e5	0.50	NO	1.01	0.956	33.941	33.93	0.989	0.989	1698.1	81.2	6.52	
29	13C-1,2,3,6,7,8-HxCDF	6.32e5	0.50	NO	1.17	0.956	34.064	34.05	0.992	0.992	1680.7	80.3	5.63	
30	13C-2,3,4,6,7,8-HxCDF	5.85e5	0.49	NO	1.02	0.956	34.637	34.63	1.009	1.009	1777.1	84.9	6.43	
31	13C-1,2,3,7,8,9-HxCDF	4.71e5	0.50	NO	0.860	0.956	35.537	35.55	1.035	1.036	1699.7	81.2	7.64	

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-8.qld

Last Altered: Wednesday, June 10, 2020 11:05:42 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 11:08:22 Pacific Daylight Time

Name: 200609R1\_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.89e5	0.42	NO	0.774	0.956	37.284	37.32	1.086	1.087	1558.8	74.5	5.47	
33	13C-1,2,3,4,7,8,9-HpCDF	2.55e5	0.41	NO	0.521	0.956	39.312	39.28	1.145	1.144	1517.3	72.5	8.12	
34	13C-OCDF	5.84e5	0.87	NO	0.746	0.956	41.907	41.91	1.221	1.221	2431.5	58.1	4.92	
35	37Cl-2,3,7,8-TCDD	3.38e5			1.04	0.956	26.522	26.48	1.028	1.026	791.83	94.6	0.729	
36	13C-1,2,3,4-TCDD	8.62e5	0.79	NO	1.00	0.956	25.890	25.81	1.000	1.000	2092.1	100	2.86	
37	13C-1,2,3,4-TCDF	1.19e6	0.79	NO	1.00	0.956	24.360	24.12	1.000	1.000	2092.1	100	3.55	
38	13C-1,2,3,4,6,9-HxCDF	6.74e5	0.50	NO	1.00	0.956	34.420	34.33	1.000	1.000	2092.1	100	6.57	
39	Total Tetra-Dioxins				0.888	0.956	24.620		0.000				0.322	
40	Total Penta-Dioxins				0.908	0.956	29.960		0.000				0.225	
41	Total Hexa-Dioxins				0.892	0.956	33.635		0.000				0.399	
42	Total Hepta-Dioxins				0.864	0.956	37.640		0.000				0.807	
43	Total Tetra-Furans				0.751	0.956	23.610		0.000		0.00000		0.168	0.277
44	1st Func. Penta-Furans				0.893	0.956	27.580		0.000				0.0926	
45	Total Penta-Furans				0.893	0.956	29.275		0.000				0.182	
46	Total Hexa-Furans				0.934	0.956	33.555		0.000				0.265	
47	Total Hepta-Furans				0.873	0.956	37.835		0.000				0.494	

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-8.qld

Last Altered: Wednesday, June 10, 2020 11:05:42 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 11:08:22 Pacific Daylight Time

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

Name: 200609R1\_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300

**Tetra-Dioxins**

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

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

**Hexa-Dioxins**

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

**Hepta-Dioxins**

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

**Tetra-Furans**

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Tetra-Furans	25.84	1.236e3	9.620e2	6.185e1	5.729e1	1.08	YES	0.000e0	0.00000	0.27707	0.168

**Penta-Furans function 1**

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

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-8.qld

Last Altered: Wednesday, June 10, 2020 11:05:42 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 11:08:22 Pacific Daylight Time

Name: 200609R1\_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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



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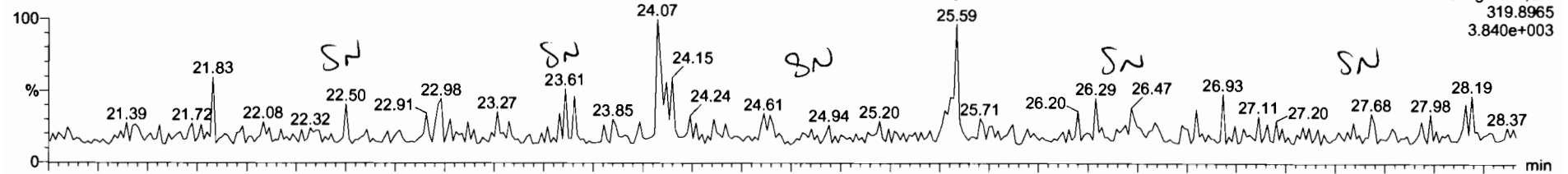
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Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

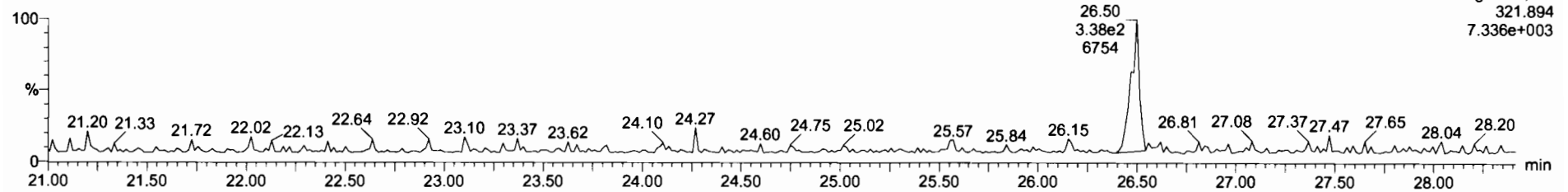
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**2,3,7,8-TCDD**

200609R1\_8

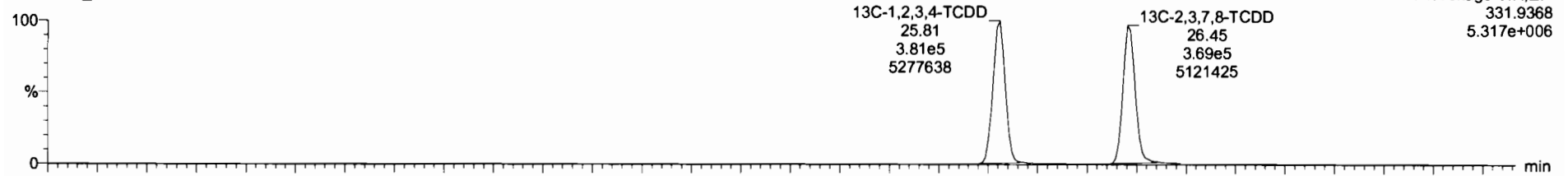


200609R1\_8

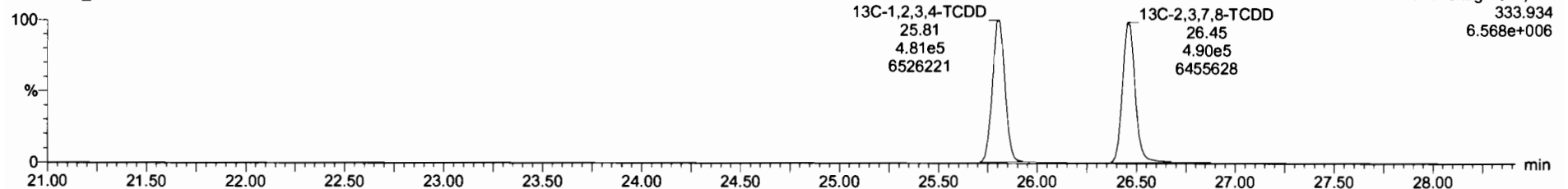


**13C-2,3,7,8-TCDD**

200609R1\_8



200609R1\_8



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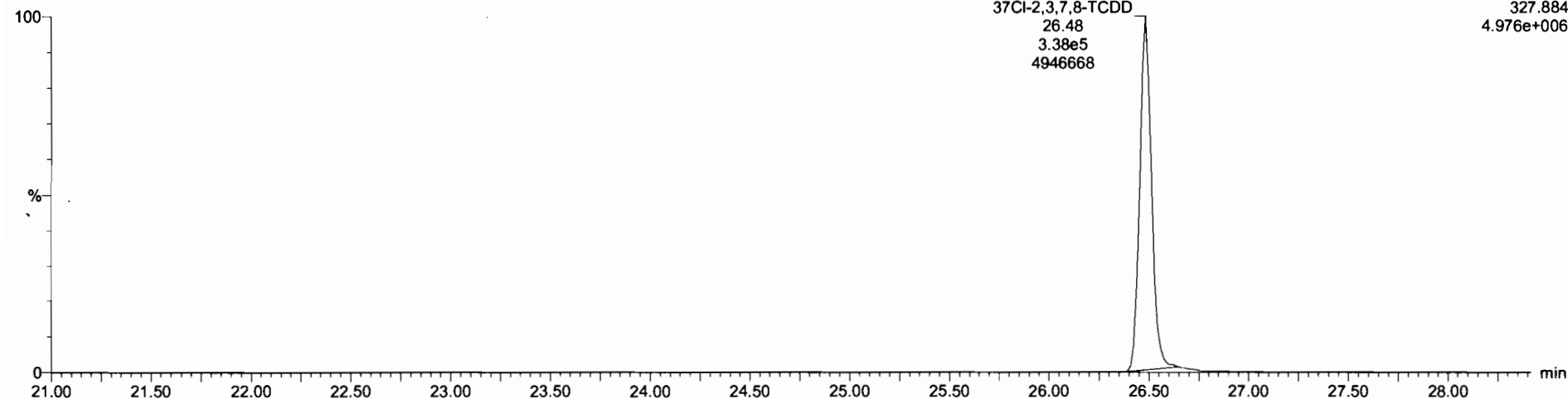
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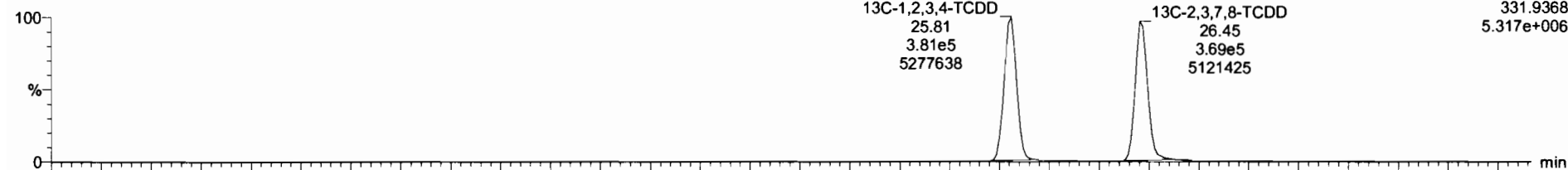
**37Cl-2,3,7,8-TCDD**

200609R1\_8

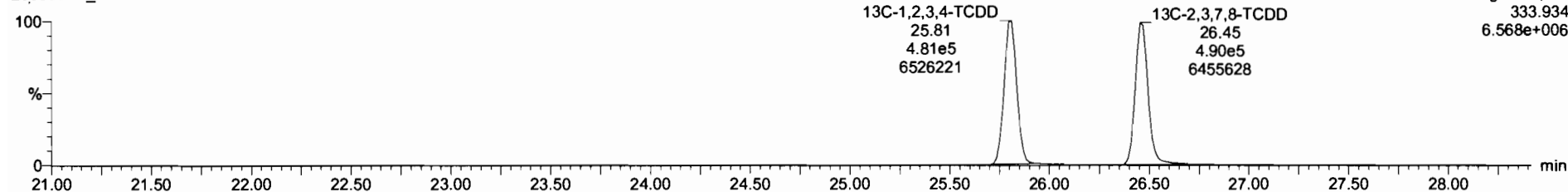


**13C-1,2,3,4-TCDD**

200609R1\_8



200609R1\_8



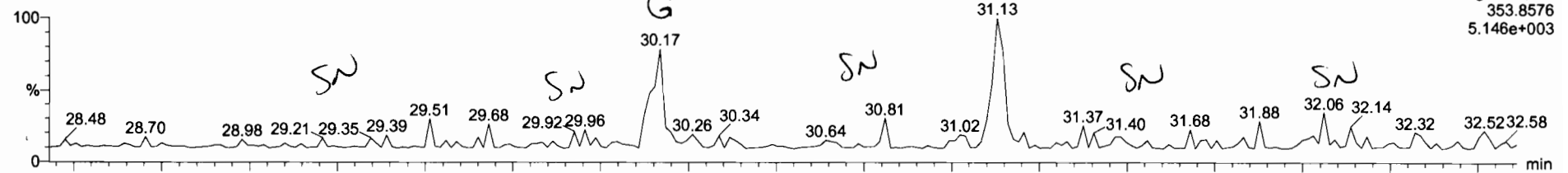
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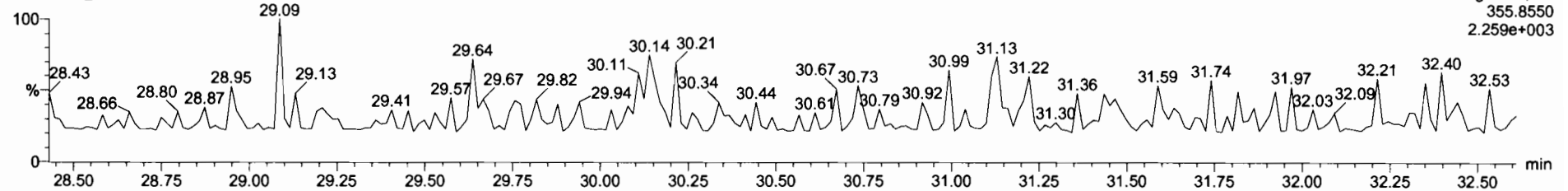
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1,2,3,7,8-PeCDD

200609R1\_8

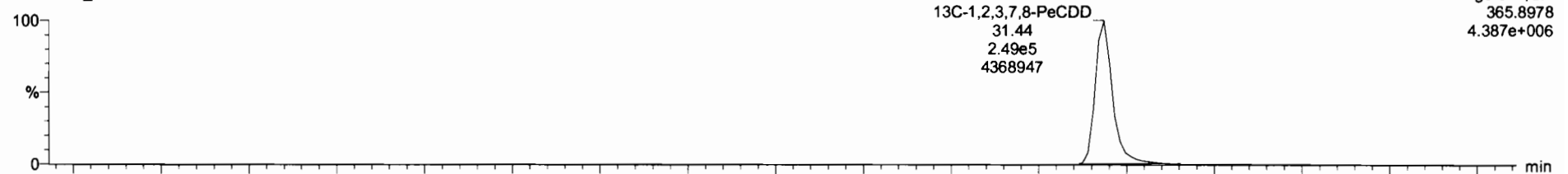


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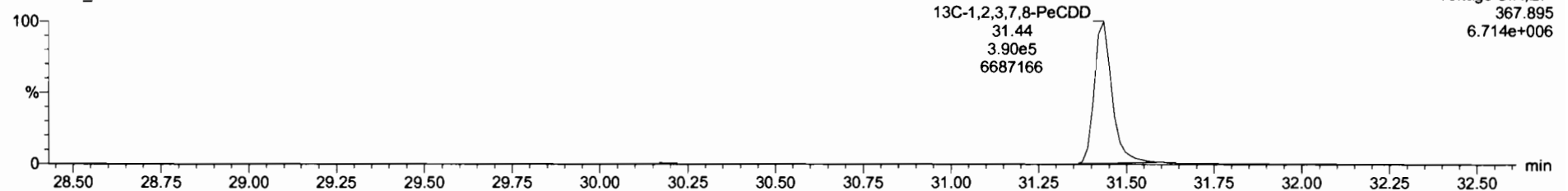


13C-1,2,3,7,8-PeCDD

200609R1\_8



200609R1\_8



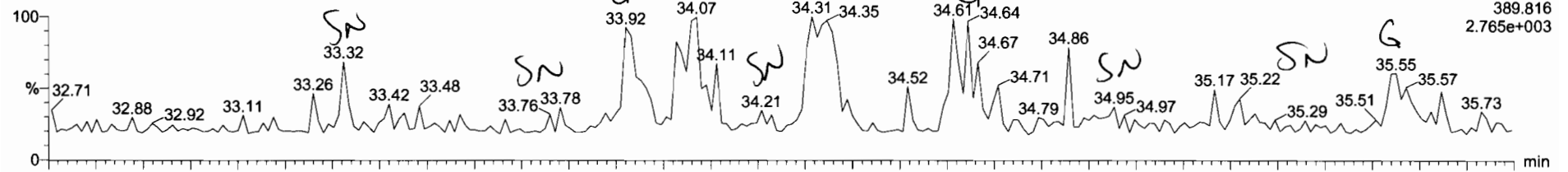
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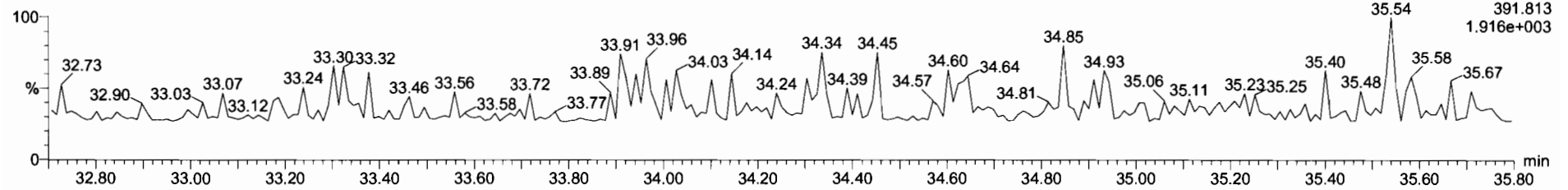
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1,2,3,4,7,8-HxCDD

200609R1\_8

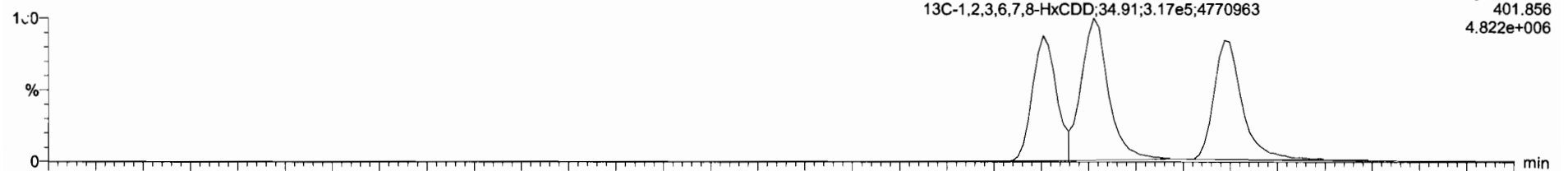


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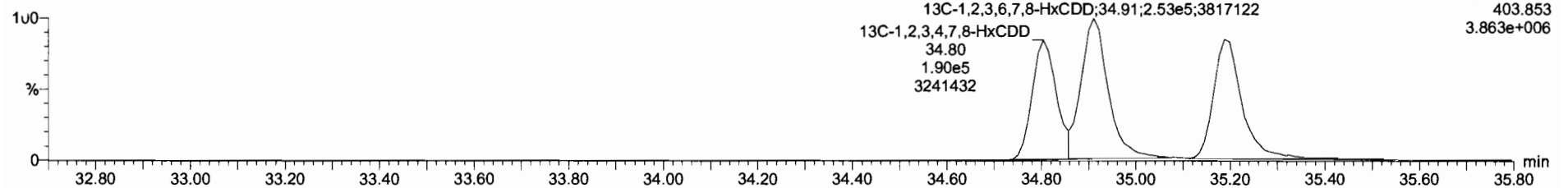


13C-1,2,3,4,7,8-HxCDD

200609R1\_8



200609R1\_8



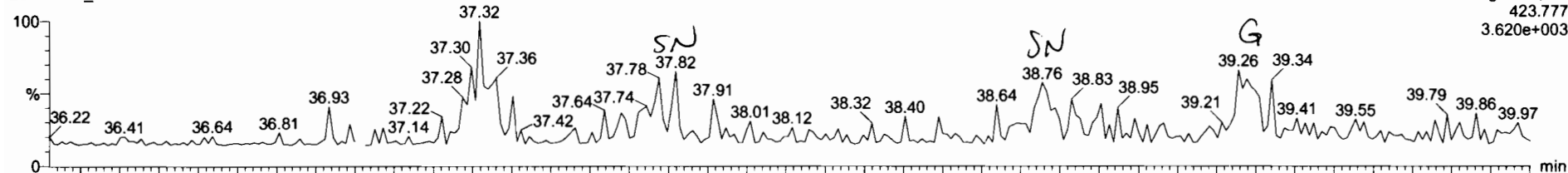
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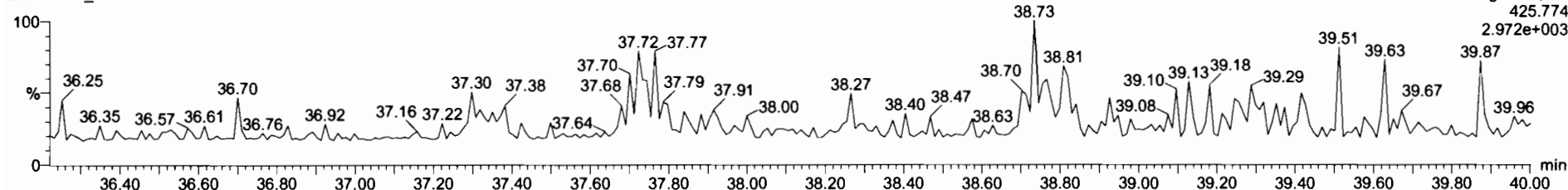
1,2,3,4,6,7,8-HpCDD

200609R1\_8



F4:Voltage SIR,EI+  
423.777  
3.620e+003

200609R1\_8



F4:Voltage SIR,EI+  
425.774  
2.972e+003

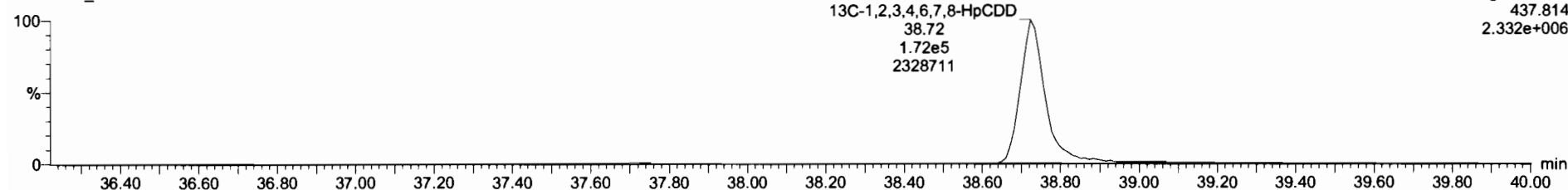
13C-1,2,3,4,6,7,8-HpCDD

200609R1\_8



F4:Voltage SIR,EI+  
435.817  
2.335e+006

200609R1\_8

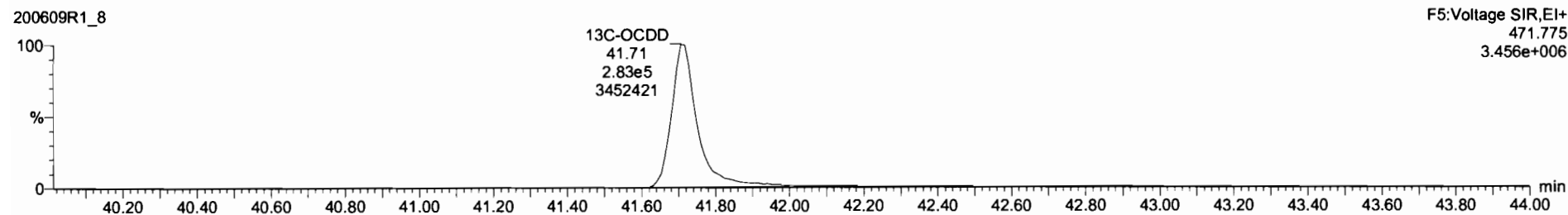
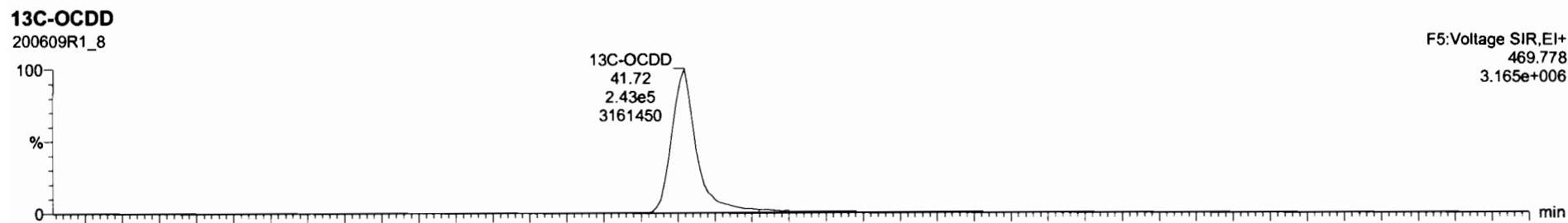
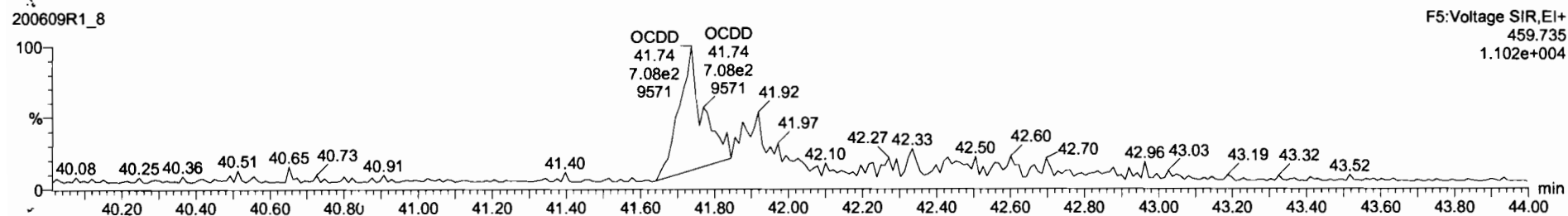
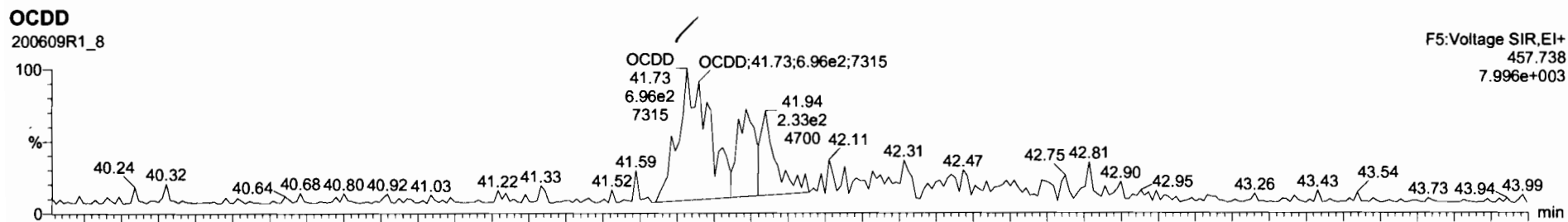


F4:Voltage SIR,EI+  
437.814  
2.332e+006

Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

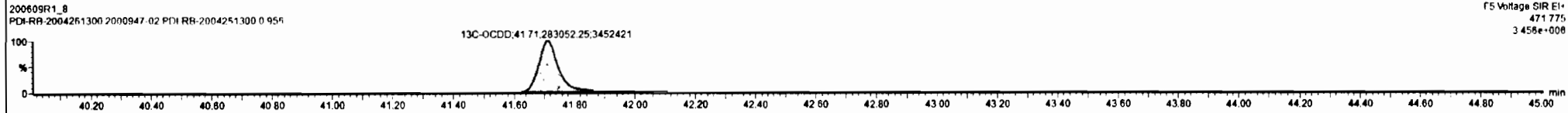
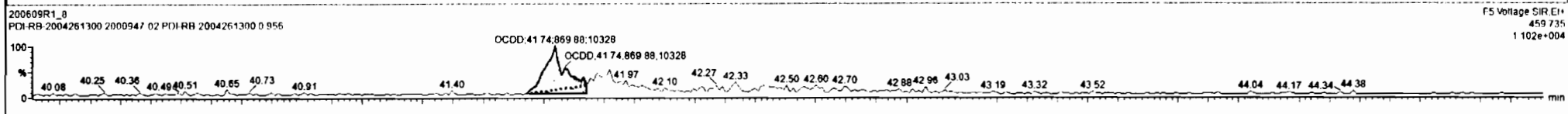
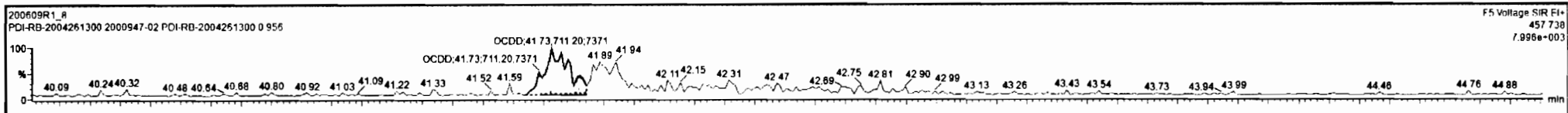
Name: 200609R1\_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300



Method	RT	air Resp	nd Resp	RA	aly	EMPC	Conc.
2,3,7,8-TCDF							0.344

Method	RT	air Resp	nd Resp	RA	aly	EMPC	Conc.



Dataset: Untitled

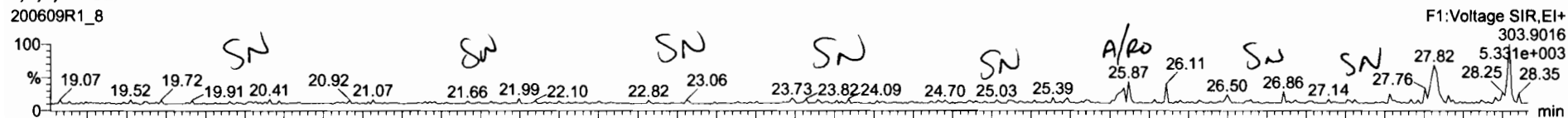
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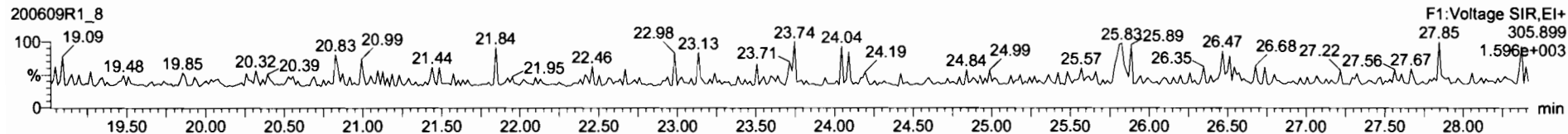
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**2,3,7,8-TCDF**

200609R1\_8

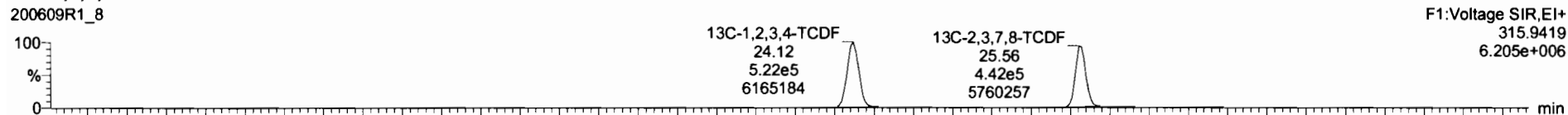


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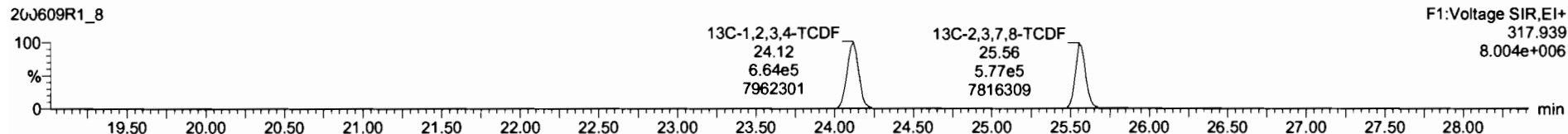


**13C-2,3,7,8-TCDF**

200609R1\_8

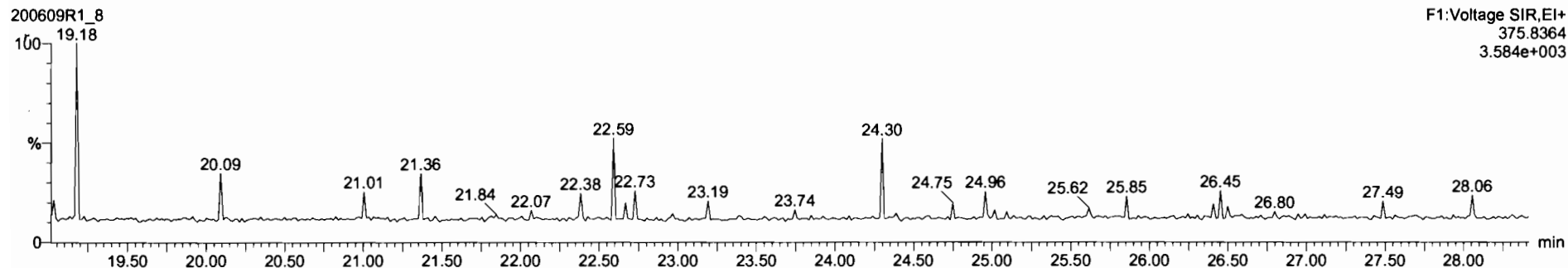


200609R1\_8

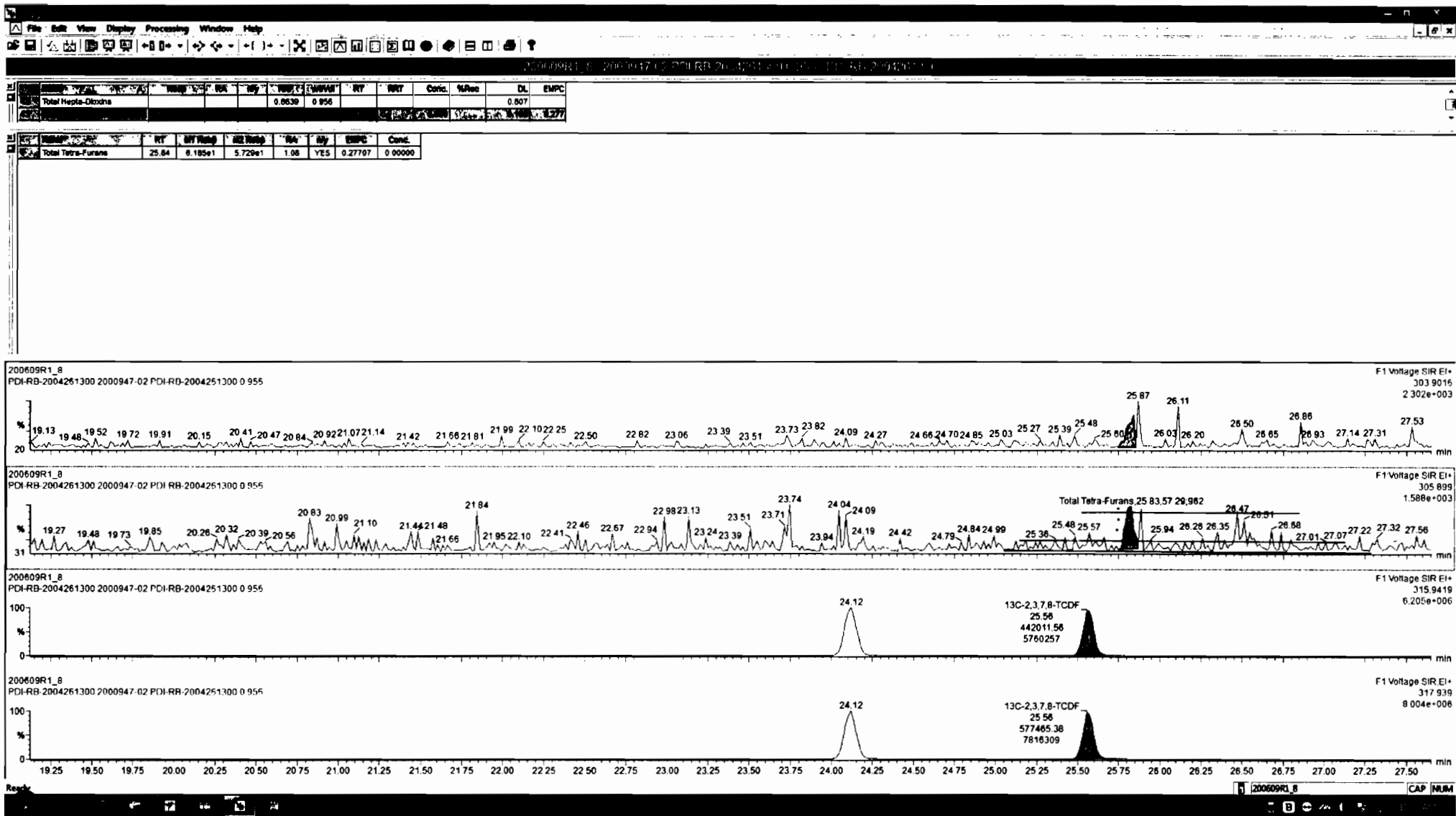


**DPE1**

200609R1\_8







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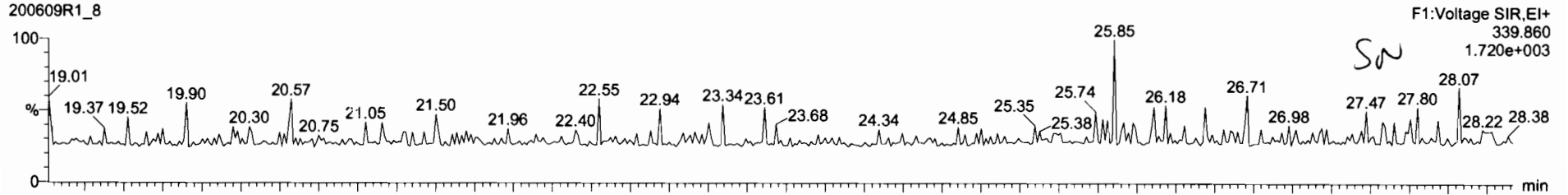
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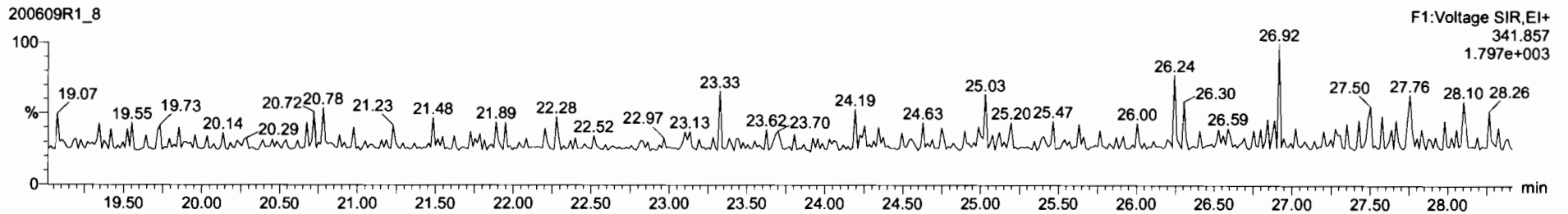
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1st Func. Penta-Furans

200609R1\_8

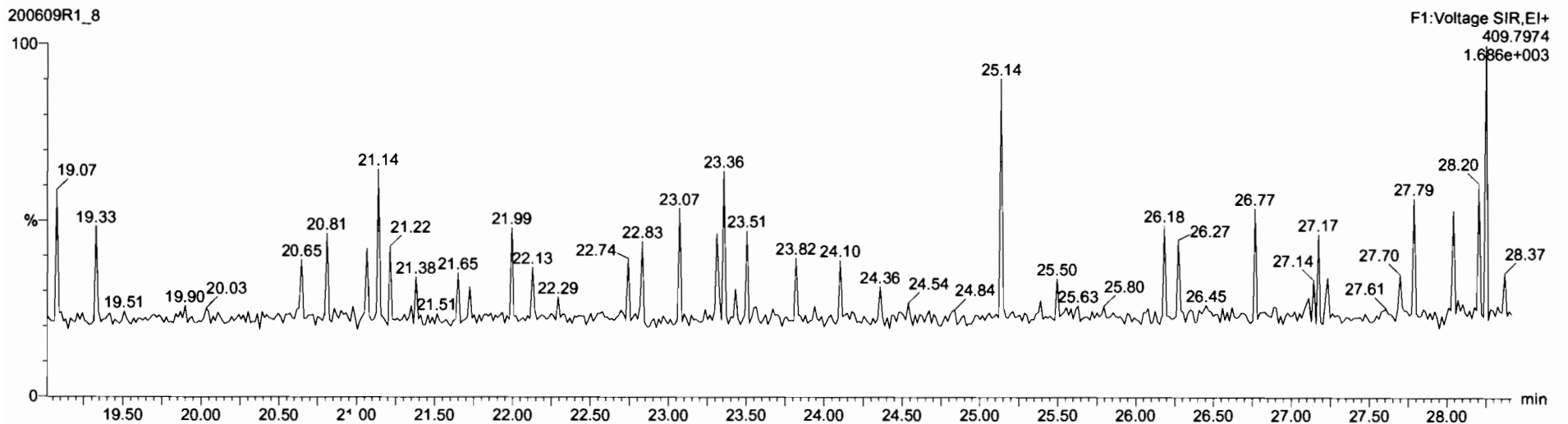


200609R1\_8



DPE6

200609R1\_8

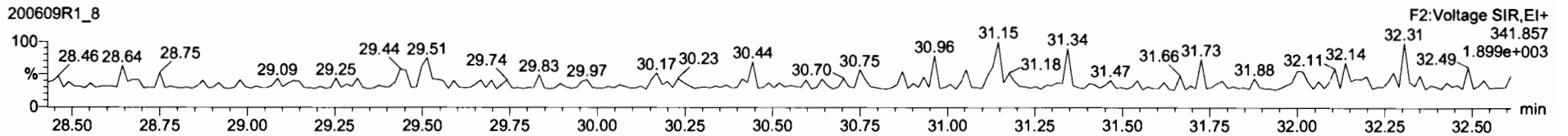
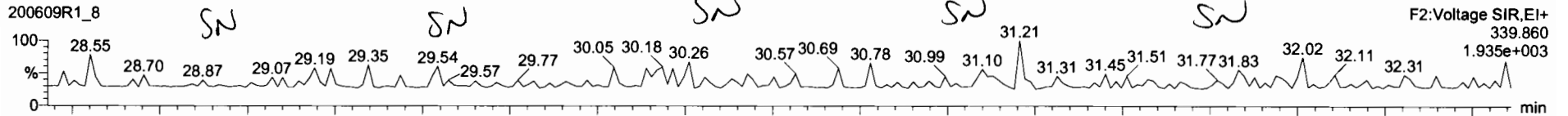


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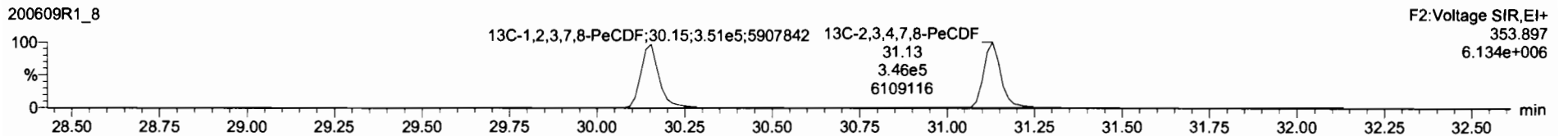
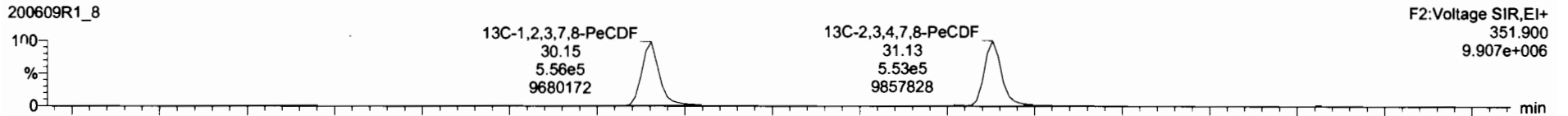
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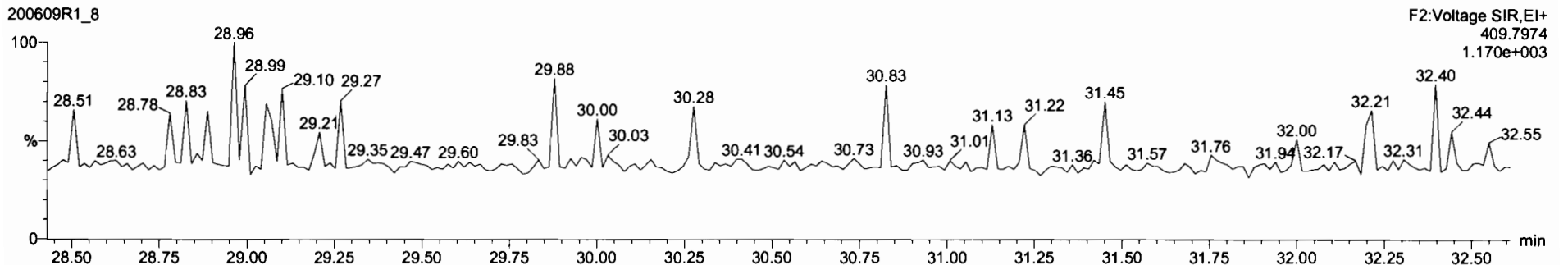
**1,2,3,7,8-PeCDF**



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



**DPE2**

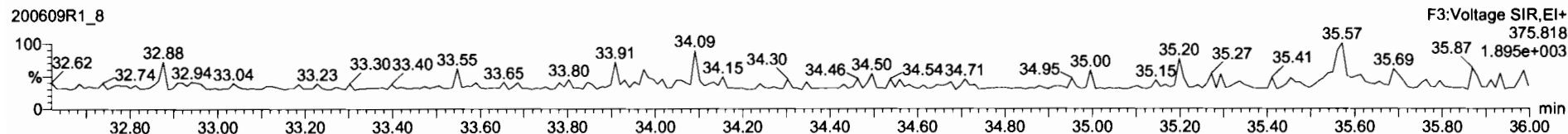
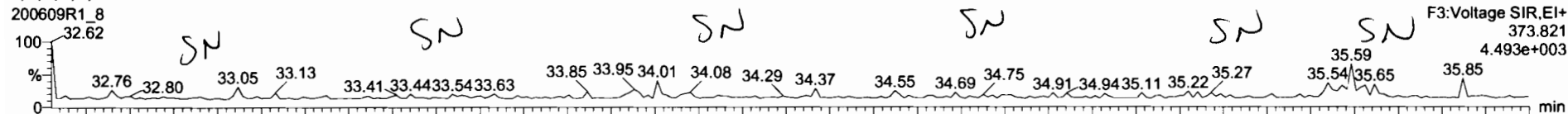


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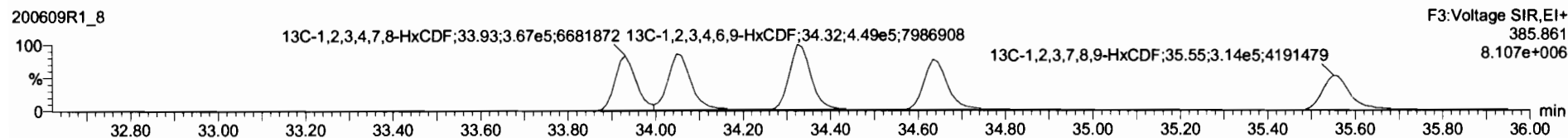
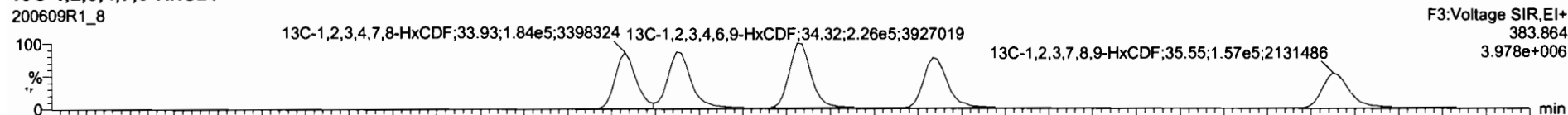
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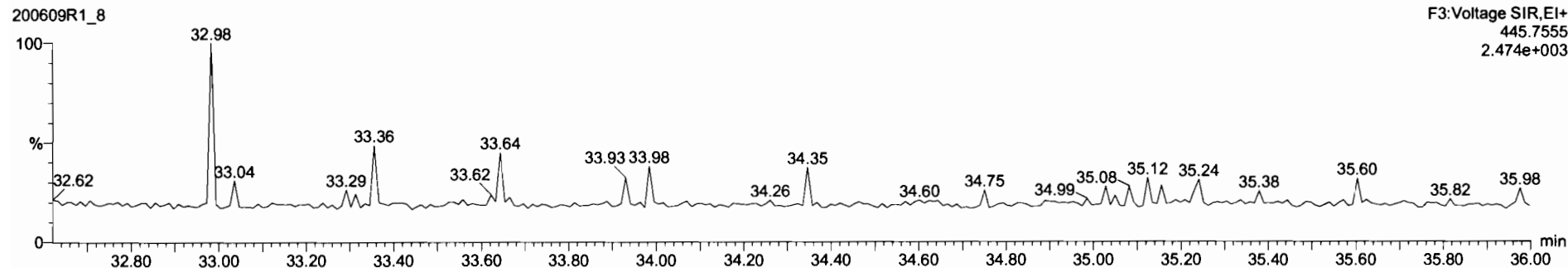
1,2,3,4,7,8-HxCDF



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



DPE3

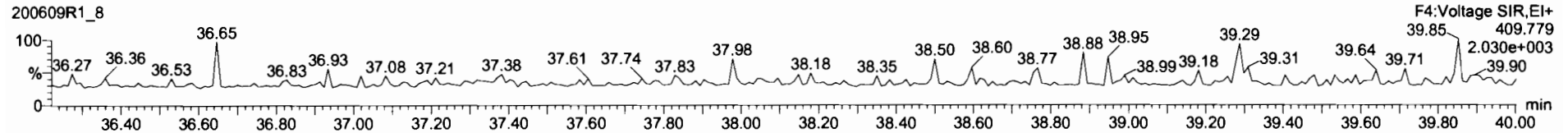
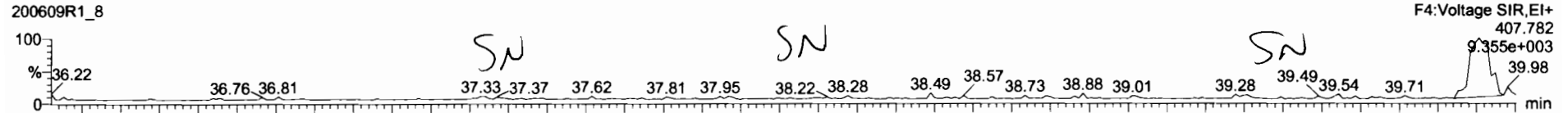


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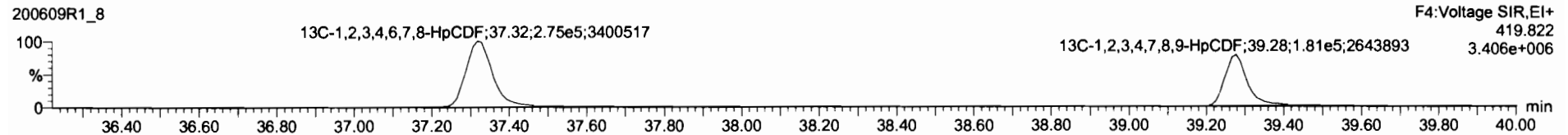
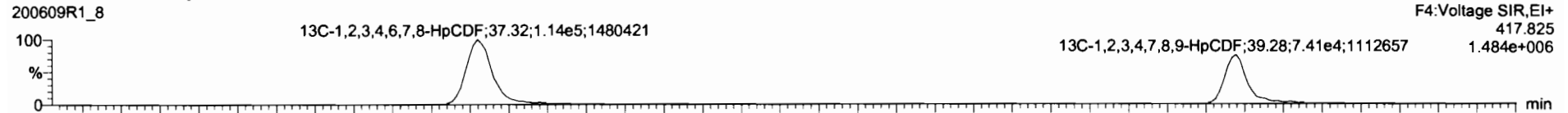
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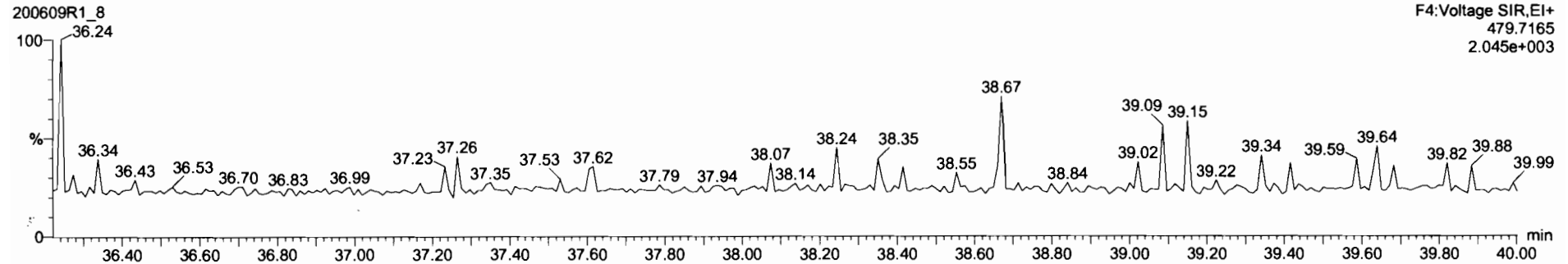
1,2,3,4,6,7,8-HpCDF



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



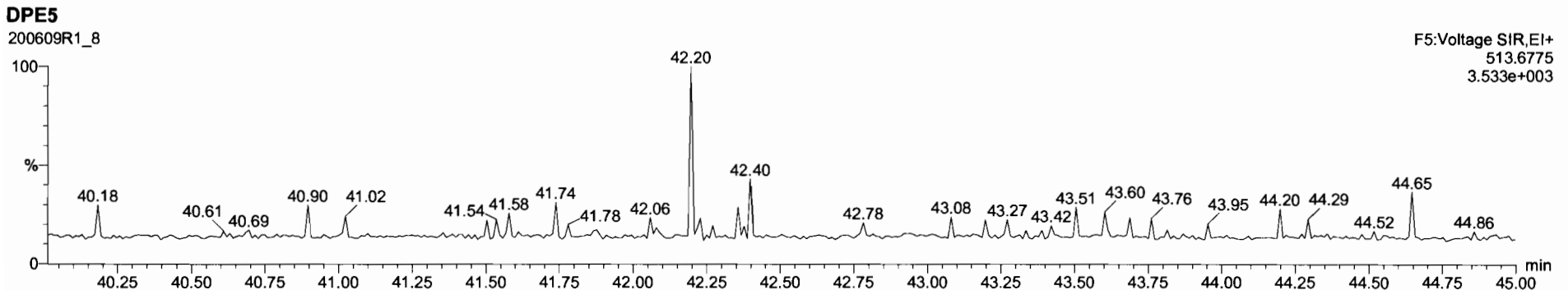
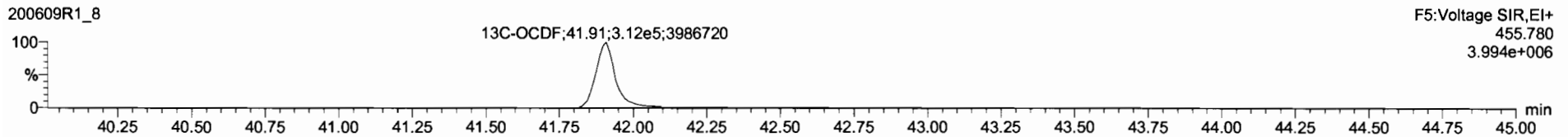
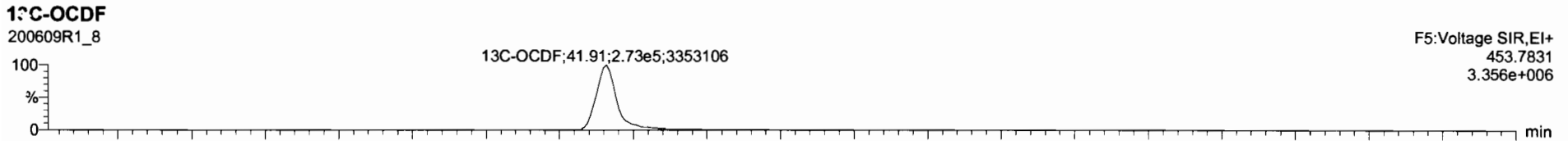
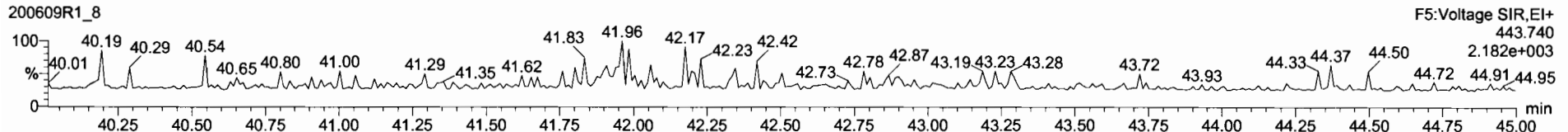
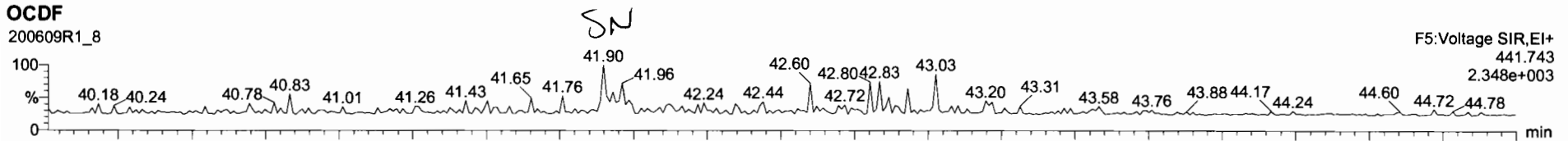
DPE4



Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time  
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300



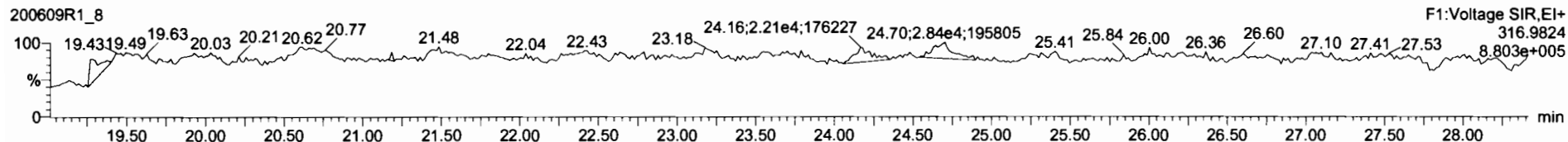
Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time

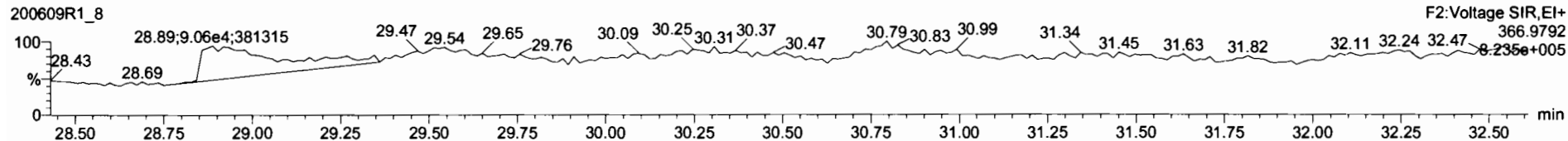
Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time

Name: 200609R1\_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300

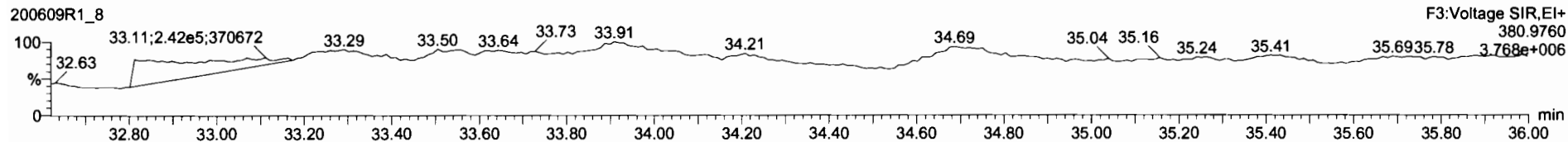
**PFK1**



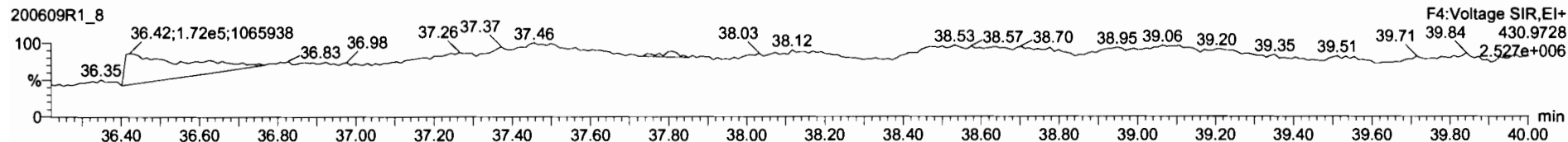
**PFK2**



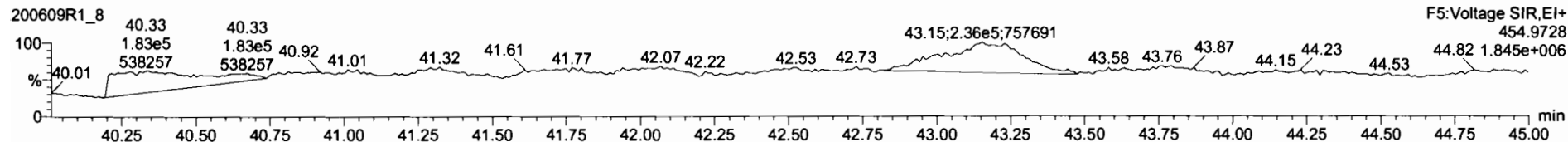
**PFK3**



**Pi-K4**



**PFK5**



## **CONTINUING CALIBRATION**



## HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

**Beg. Calibration ID:** ST200609R1-1

**Reviewed By:** CLT 06/10/2020

*Initials & Date*

**End Calibration ID:** NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
<b>Ion abundance within QC limits?</b>	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	<b>Mass resolution <math>\geq</math></b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Concentrations within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614    1699    429    1613/1668/8280		
<b>TCDD/TCDF Valleys &lt;25%</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Intergrated peaks display correctly?</b>	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
<b>First and last eluters present?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>GC Break &lt;20%</b>	<input type="checkbox" value="NA"/>	
<b>Retention Times within criteria?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b><u>8280 CS1 End Standard:</u></b>		
<b>Verification Std. named correctly?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox" value="NA"/>
<b>(ST-Year-Month-Day-VG ID)</b>					
<b>Forms signed and dated?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Comments:</b>		
<b>Correct ICAL referenced?</b>	<u>GRB</u>	<u>          </u>			
<b><u>Run Log:</u></b>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox" value="V"/>			
- Samples within 12 hour clock?	<u>(Y)</u>	<u>N</u>			
- Bottle position verified?	<u>GRB</u>	<u>          </u>			

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-1.qld

Last Altered: Tuesday, June 09, 2020 15:48:48 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 15:49:12 Pacific Daylight Time

*GPO 06/09/2020*

*CT 06/10/2020*

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

Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	6.69e4	7.76e5	0.77	NO	0.888	26.47	26.47	NO	1.001	1.001	9.7019	97.0	NO
2	2 1,2,3,7,8-PeCDD	2.54e5	5.73e5	0.62	NO	0.908	31.44	31.43	NO	1.001	1.000	48.820	97.6	NO
3	3 1,2,3,4,7,8-HxCDD	2.09e5	3.88e5	1.24	NO	1.03	34.80	34.80	NO	1.000	1.000	52.134	104	NO
4	4 1,2,3,6,7,8-HxCDD	2.21e5	5.08e5	1.25	NO	0.892	34.89	34.91	NO	1.000	1.001	48.713	97.4	NO
5	5 1,2,3,7,8,9-HxCDD	1.98e5	4.50e5	1.25	NO	0.887	35.19	35.19	NO	1.000	1.000	49.568	99.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.65e5	3.76e5	1.02	NO	0.864	38.72	38.72	NO	1.000	1.000	50.921	102	NO
7	7 OCDD	2.73e5	5.63e5	0.90	NO	0.914	41.69	41.71	NO	1.000	1.000	105.99	106	NO
8	8 2,3,7,8-TCDF	7.75e4	1.06e6	0.74	NO	0.751	25.57	25.57	NO	1.001	1.001	9.7592	97.6	NO
9	9 1,2,3,7,8-PeCDF	3.61e5	8.20e5	1.60	NO	0.893	30.14	30.15	NO	1.001	1.001	49.333	98.7	NO
10	10 2,3,4,7,8-PeCDF	4.01e5	8.45e5	1.58	NO	0.935	31.15	31.13	NO	1.001	1.000	50.741	101	NO
11	11 1,2,3,4,7,8-HxCDF	2.63e5	5.62e5	1.22	NO	0.884	33.91	33.93	NO	1.000	1.001	52.827	106	NO
12	12 1,2,3,6,7,8-HxCDF	2.89e5	6.30e5	1.23	NO	0.889	34.05	34.05	NO	1.000	1.000	51.542	103	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.61e5	1.22	NO	0.934	34.66	34.63	NO	1.001	1.000	52.017	104	NO
14	14 1,2,3,7,8,9-HxCDF	2.01e5	4.43e5	1.21	NO	0.871	35.54	35.55	NO	1.000	1.000	52.022	104	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.17e5	4.69e5	1.03	NO	0.873	37.34	37.32	NO	1.001	1.000	52.918	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.45e5	2.73e5	1.01	NO	1.01	39.26	39.27	NO	1.000	1.000	52.294	105	NO
17	17 OCDF	2.72e5	6.43e5	0.87	NO	0.806	41.89	41.90	NO	1.000	1.000	104.72	105	NO
18	18 13C-2,3,7,8-TCDD	7.76e5	6.44e5	0.77	NO	1.16	26.46	26.44	NO	1.026	1.026	104.29	104	NO
19	19 13C-1,2,3,7,8-PeCDD	5.73e5	6.44e5	0.64	NO	0.849	31.64	31.42	NO	1.227	1.219	104.85	105	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.88e5	5.47e5	1.27	NO	0.779	34.80	34.79	NO	1.014	1.014	91.074	91.1	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.08e5	5.47e5	1.26	NO	1.02	34.91	34.89	NO	1.017	1.017	91.480	91.5	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.50e5	5.47e5	1.26	NO	0.903	35.18	35.18	NO	1.025	1.025	91.190	91.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.76e5	5.47e5	1.06	NO	0.689	38.70	38.71	NO	1.128	1.128	99.723	99.7	NO
24	24 13C-OCDD	5.63e5	5.47e5	0.88	NO	0.652	41.72	41.69	NO	1.216	1.215	158.08	79.0	NO
25	25 13C-2,3,7,8-TCDF	1.06e6	1.01e6	0.77	NO	1.06	25.50	25.54	NO	0.989	0.991	98.534	98.5	NO
26	26 13C-1,2,3,7,8-PeCDF	8.20e5	1.01e6	1.54	NO	0.838	30.02	30.12	NO	1.165	1.168	96.548	96.5	NO
27	27 13C-2,3,4,7,8-PeCDF	8.45e5	1.01e6	1.63	NO	0.817	30.97	31.11	NO	1.202	1.207	102.15	102	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.62e5	5.47e5	0.50	NO	1.01	33.93	33.91	NO	0.989	0.988	102.05	102	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.30e5	5.47e5	0.49	NO	1.17	34.05	34.04	NO	0.992	0.992	98.780	98.8	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.61e5	5.47e5	0.50	NO	1.02	34.63	34.62	NO	1.009	1.009	100.37	100	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.43e5	5.47e5	0.51	NO	0.860	35.53	35.54	NO	1.035	1.036	94.323	94.3	NO

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-CPSM.qld

Last Altered: Tuesday, June 09, 2020 11:44:41 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 15:49:33 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.43
2	2 1,2,8,9-TCDD (Last)	27.43
3	3 1,2,4,7,9-PeCDD (First)	29.21
4	4 1,2,3,8,9-PeCDD (Last)	31.82
5	5 1,2,4,6,7,9-HxCDD (First)	33.30
6	6 1,2,3,7,8,9-HxCDD (Last)	35.19
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.71
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.72
9	9 1,3,6,8-TCDF (First)	20.29
10	10 1,2,8,9-TCDF (Last)	27.58
11	11 1,3,4,6,8-PeCDF (First)	27.53
12	12 1,2,3,8,9-PeCDF (Last)	32.06
13	13 1,2,3,4,6,8-HxCDF (First)	32.75
14	14 1,2,3,7,8,9-HxCDF (Last)	35.55
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.32
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.27

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-1.qld

Last Altered: Tuesday, June 09, 2020 15:48:48 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 15:49:12 Pacific Daylight Time

Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.69e5	5.47e5	0.43	NO	0.774	37.27	37.31	NO	1.086	1.087	110.73	111	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.73e5	5.47e5	0.44	NO	0.521	39.30	39.26	NO	1.145	1.144	95.871	95.9	NO
34	34 13C-OCDF	6.43e5	5.47e5	0.88	NO	0.746	41.89	41.89	NO	1.221	1.221	157.78	78.9	NO
35	35 37Cl-2,3,7,8-TCDD	7.00e4	6.44e5			1.04	26.49	26.45	NO	1.028	1.026	10.493	105	NO
36	36 13C-1,2,3,4-TCDD	6.44e5	6.44e5	0.80	NO	1.00	25.89	25.78	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.01e6	1.01e6	0.79	NO	1.00	24.36	24.09	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.47e5	5.47e5	0.51	NO	1.00	34.42	34.31	NO	1.000	1.000	100.00	100	YES <sup>OK</sup>

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:20:40 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 07:20:53 Pacific Daylight Time

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

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

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200609R1_1	ST200609R1_1 1613 CS3 19L2305	09-Jun-20	10:57:02
2	200609R1_2	B0E0092-BS1 OPR 1	09-Jun-20	11:45:38
3	200609R1_3	B0E0102-BS1 OPR 1	09-Jun-20	12:31:50
4	200609R1_4	SOLVENT BLANK	09-Jun-20	13:18:44
5	200609R1_5	B0E0092-BLK1 Method Blank 1	09-Jun-20	14:04:56
6	200609R1_6	B0E0102-BLK1 Method Blank 1	09-Jun-20	14:51:06
7	200609R1_7	2000947-01 PDI-FB-2004261231 0.9811	09-Jun-20	15:37:22
8	200609R1_8	2000947-02 PDI-RB-2004261300 0.956	09-Jun-20	16:23:33
9	200609R1_9	2001037-01 PDI-FB-2005071044 1.05401	09-Jun-20	17:09:44
10	200609R1_10	2001037-02 PDI-RB-2005071052 1.04239	09-Jun-20	17:55:56
11	200609R1_11	2000982-01 EFF-001 COMP 0.8885	09-Jun-20	18:42:08
12	200609R1_12	2000983-01 RSW-001 0.869	09-Jun-20	19:28:19
13	200609R1_13	2000984-01 INF-001 COMP 0.82341	09-Jun-20	20:14:30
14	200609R1_14	2001020-01 LU03324 0.88952	09-Jun-20	21:00:44
15	200609R1_15	2001040-01 RSW-002A 0.91416	09-Jun-20	21:46:57
16	200609R1_16	2001046-01 New Well 0.9675	09-Jun-20	22:33:07

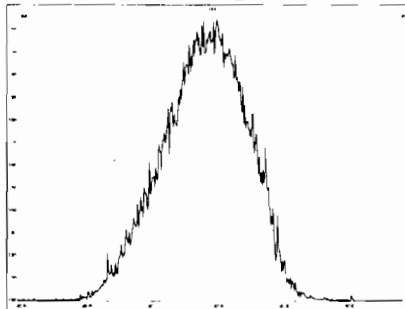
Experiment Calibration Report

MassLynx 4.1 SCN815

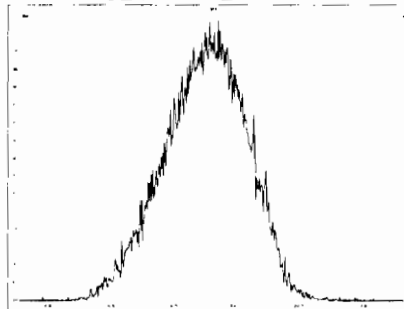
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, June 09, 2020 10:52:33 Pacific Daylight Time

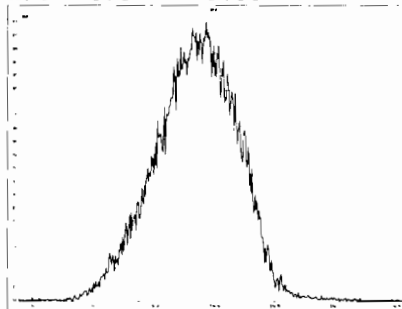
M 292.9824 R 10120



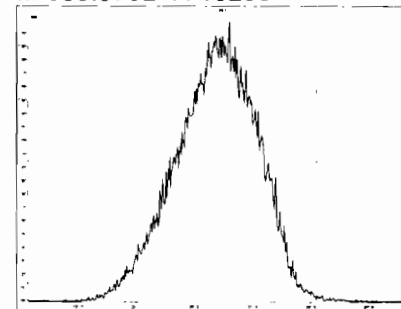
M 304.9824 R 10247



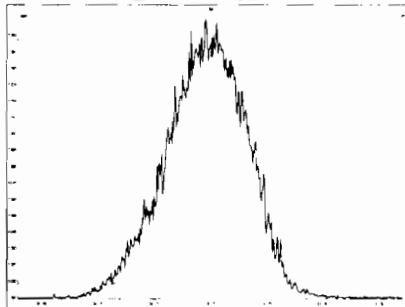
M 318.9792 R 10683



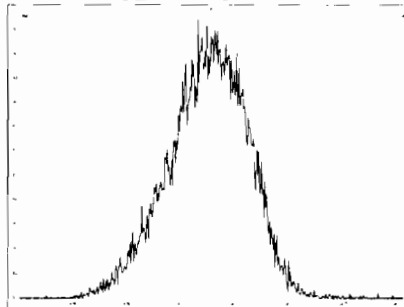
M 330.9792 R 10285



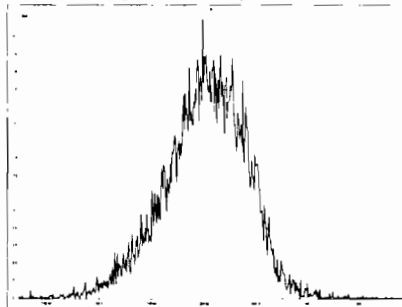
M 342.9792 R 10162



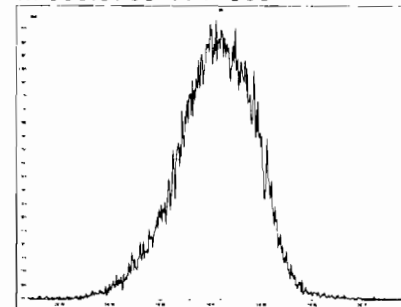
M 354.9792 R 10825



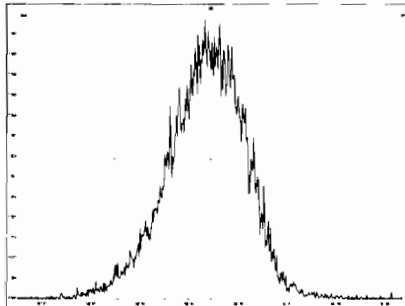
M 366.9792 R 11261



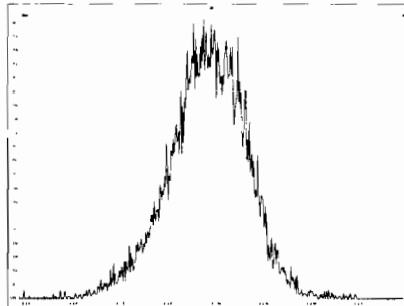
M 380.9760 R 11060



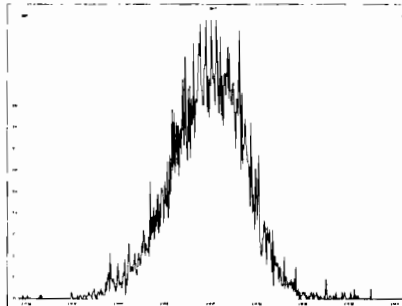
M 392.9760 R 10870



M 404.9760 R 10775



M 416.9760 R 11571



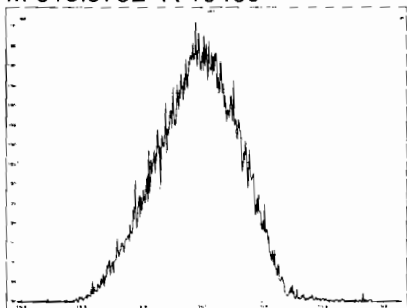
Experiment Calibration Report

MassLynx 4.1 SCN815

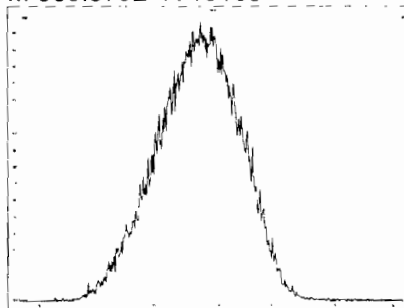
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, June 09, 2020 10:52:58 Pacific Daylight Time

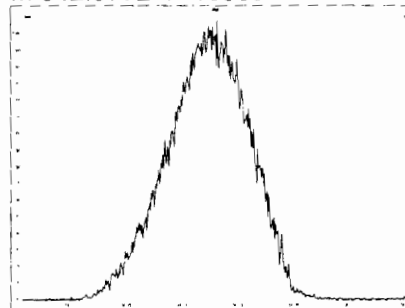
M 318.9792 R 10460



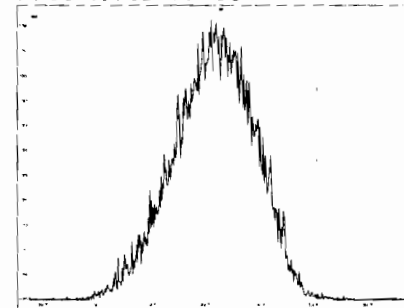
M 330.9792 R 10160



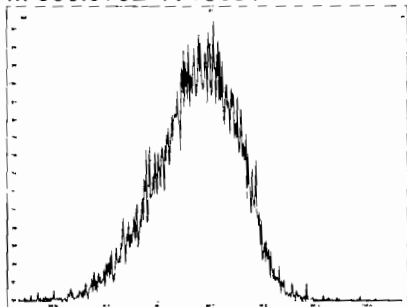
M 342.9792 R 10589



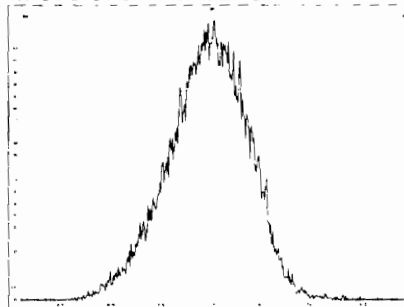
M 354.9792 R 10547



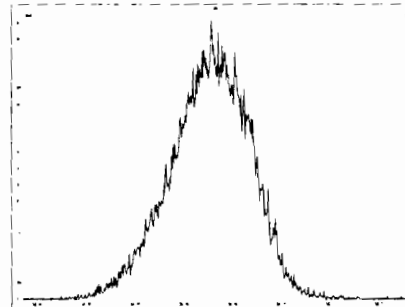
M 366.9792 R 10501



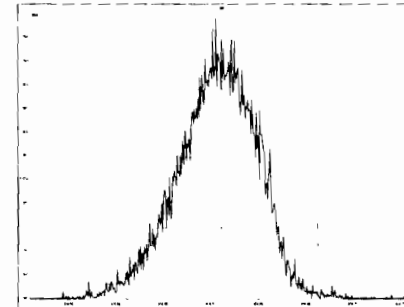
M 380.9760 R 10203



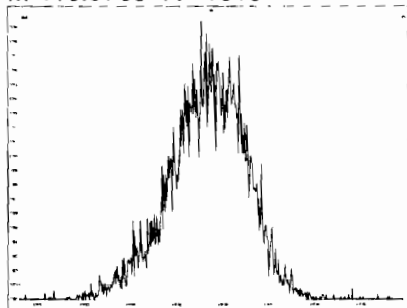
M 392.9760 R 10919



M 404.9760 R 10638



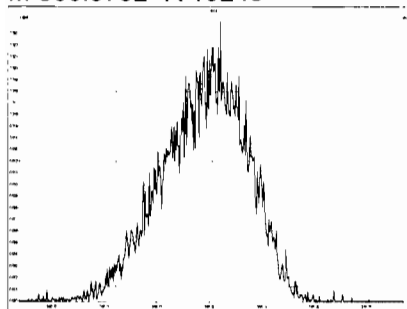
M 416.9760 R 11519



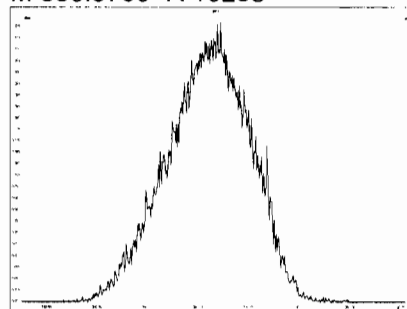
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, June 09, 2020 10:53:24 Pacific Daylight Time

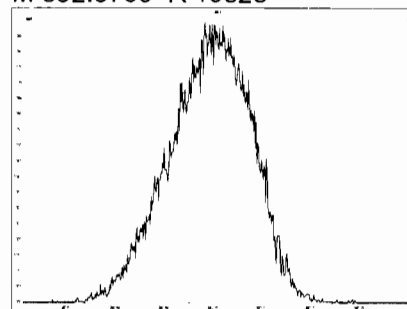
M 366.9792 R 10243



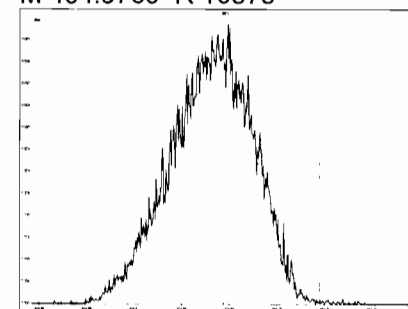
M 380.9760 R 10288



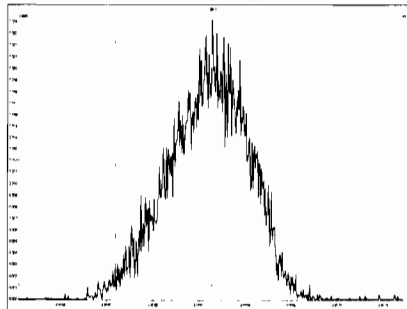
M 392.9760 R 10328



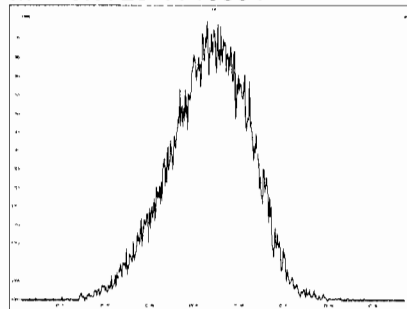
M 404.9760 R 10373



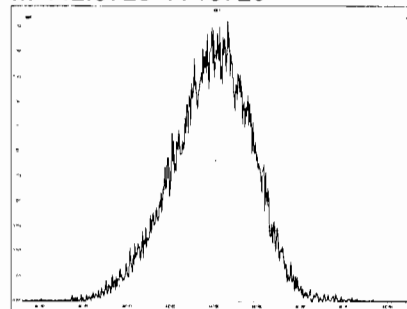
M 416.9760 R 10592



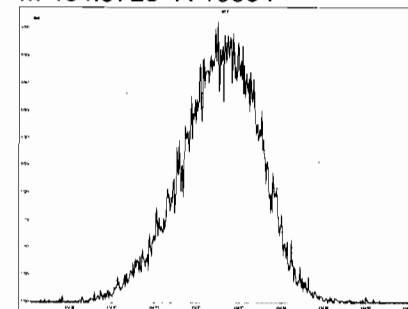
M 430.9728 R 10594



M 442.9728 R 10729



M 454.9728 R 10594





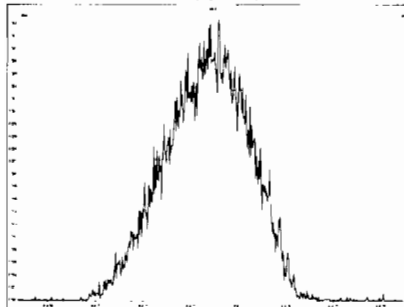
Experiment Calibration Report

MassLynx 4.1 SCN815

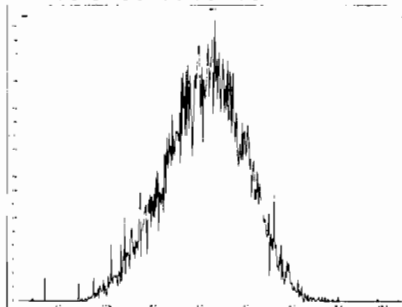
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, June 09, 2020 10:53:50 Pacific Daylight Time

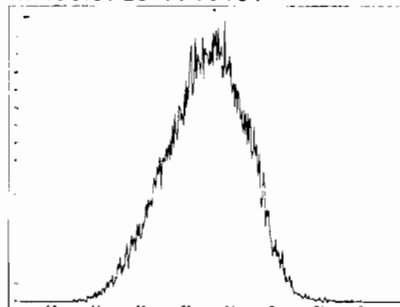
M 404.9760 R 10461



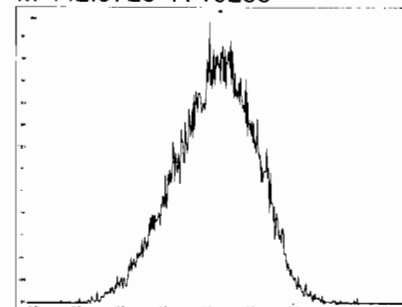
M 416.9760 R 10416



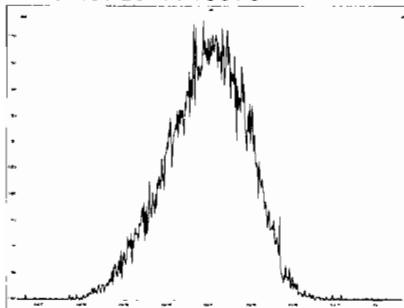
M 430.9728 R 10161



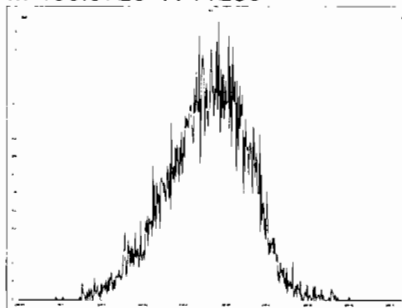
M 442.9728 R 10288



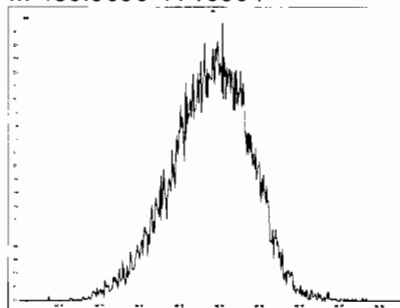
M 454.9728 R 10375



M 466.9728 R 11258



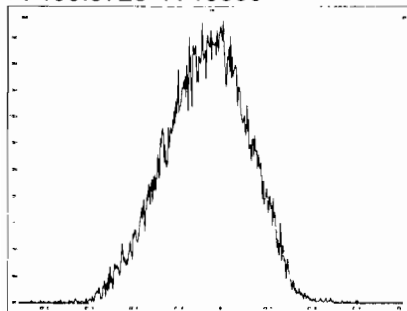
M 480.9696 R 10964



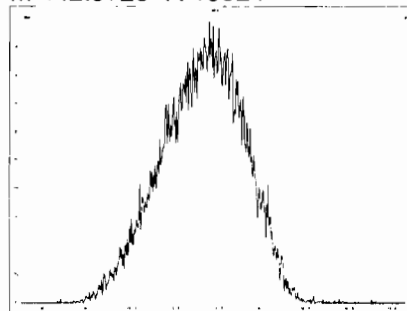
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, June 09, 2020 10:54:19 Pacific Daylight Time

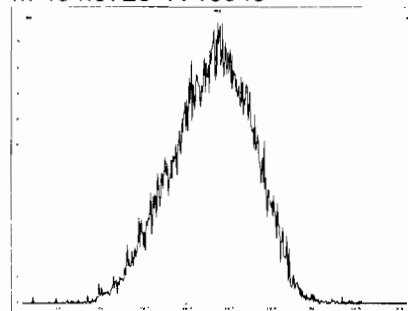
M 430.9728 R 10330



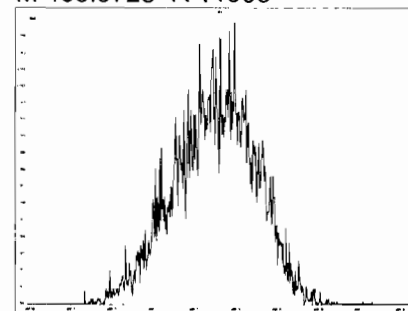
M 442.9728 R 10824



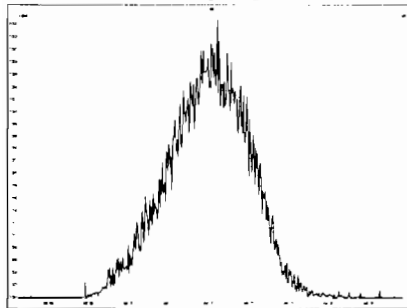
M 454.9728 R 10549



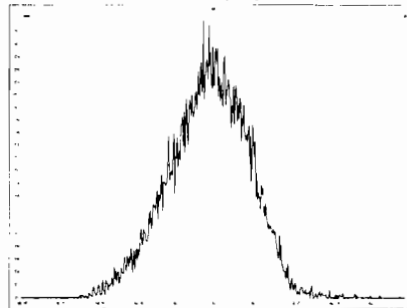
M 466.9728 R 11903



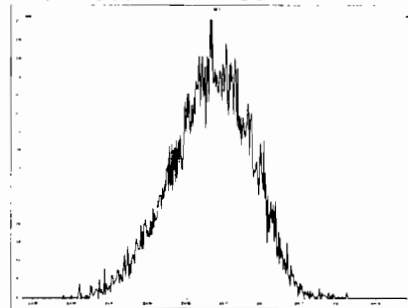
M 480.9696 R 10418



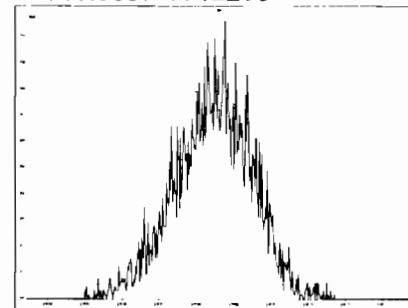
M 492.9696 R 10593



M 504.9696 R 10286



M 516.9697 R 12255



Dataset: U:\VG12.PRO\Results\200609R1\200609R1-CPSM.qld

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Printed: Tuesday, June 09, 2020 15:49:33 Pacific Daylight Time

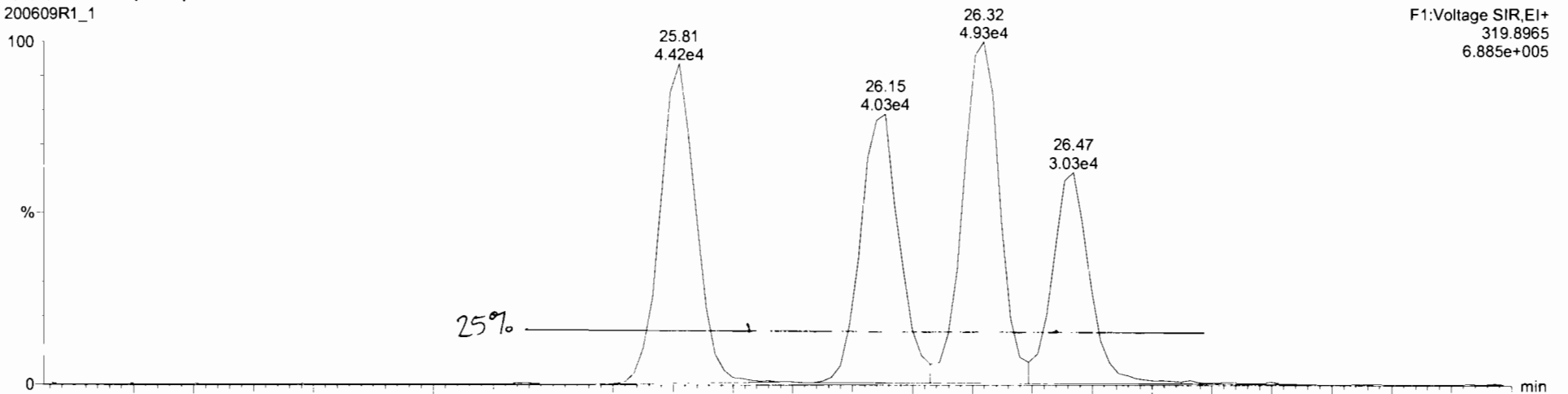
GPR 06/09/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11  
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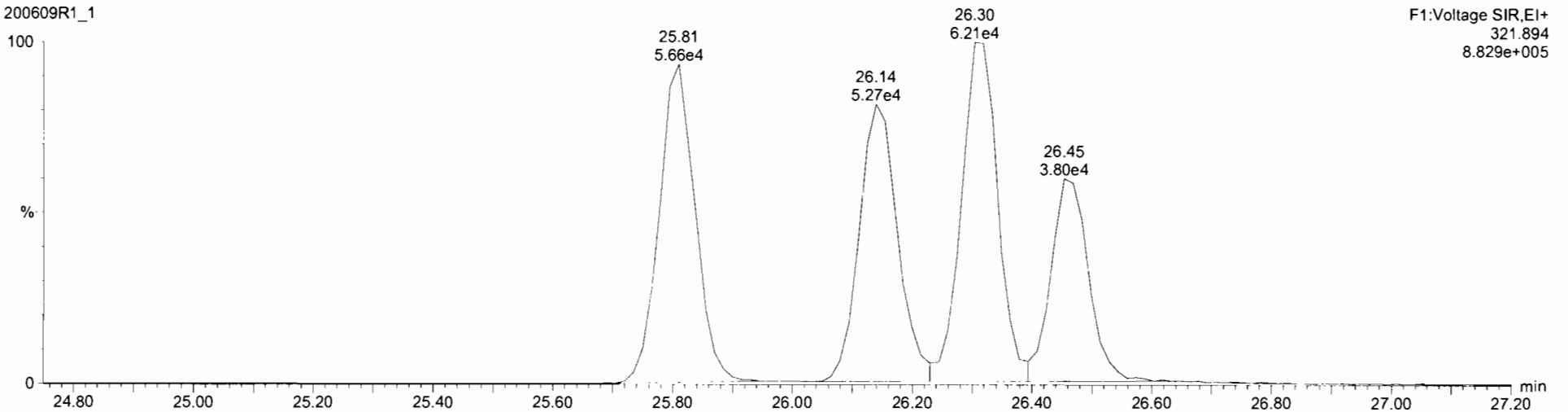
Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200609R1\_1



200609R1\_1



Dataset: Untitled

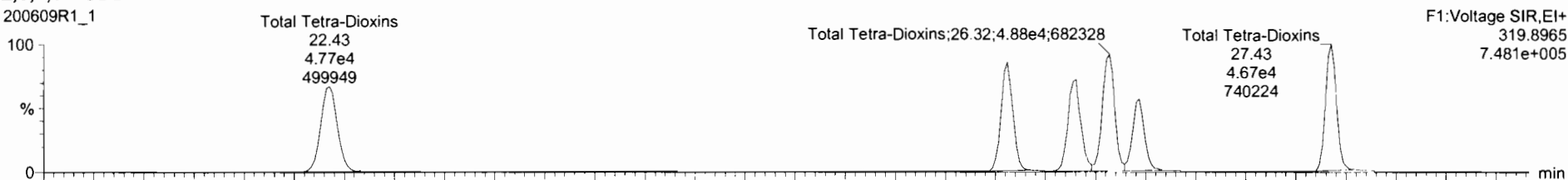
Last Altered: Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45  
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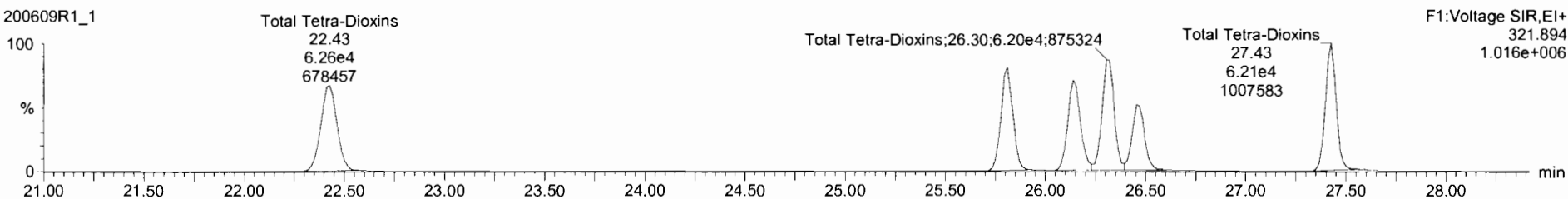
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**2,3,7,8-TCDD**

200609R1\_1

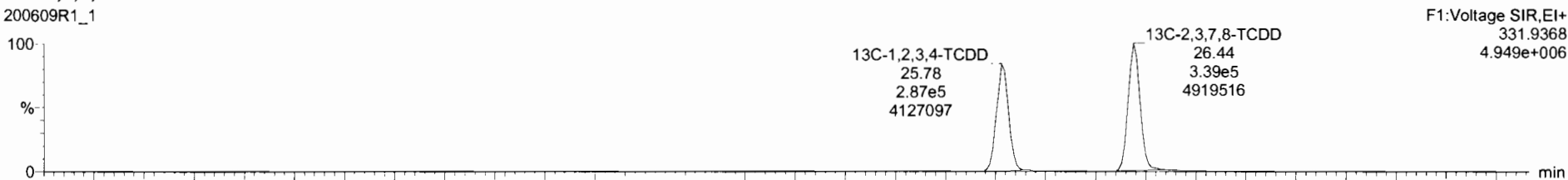


200609R1\_1

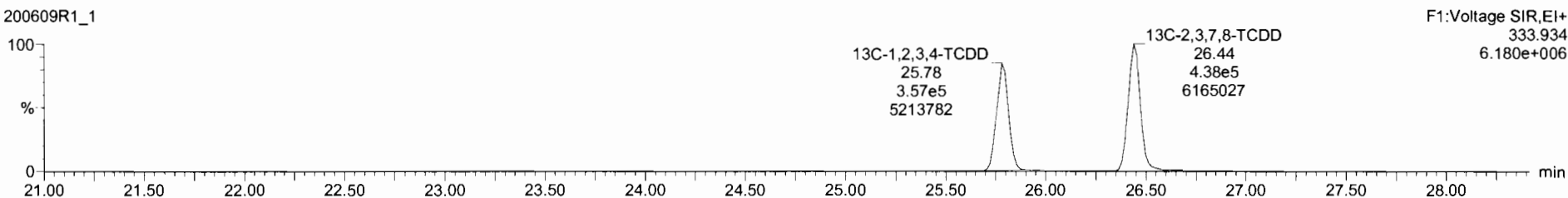


**13C-2,3,7,8-TCDD**

200609R1\_1



200609R1\_1



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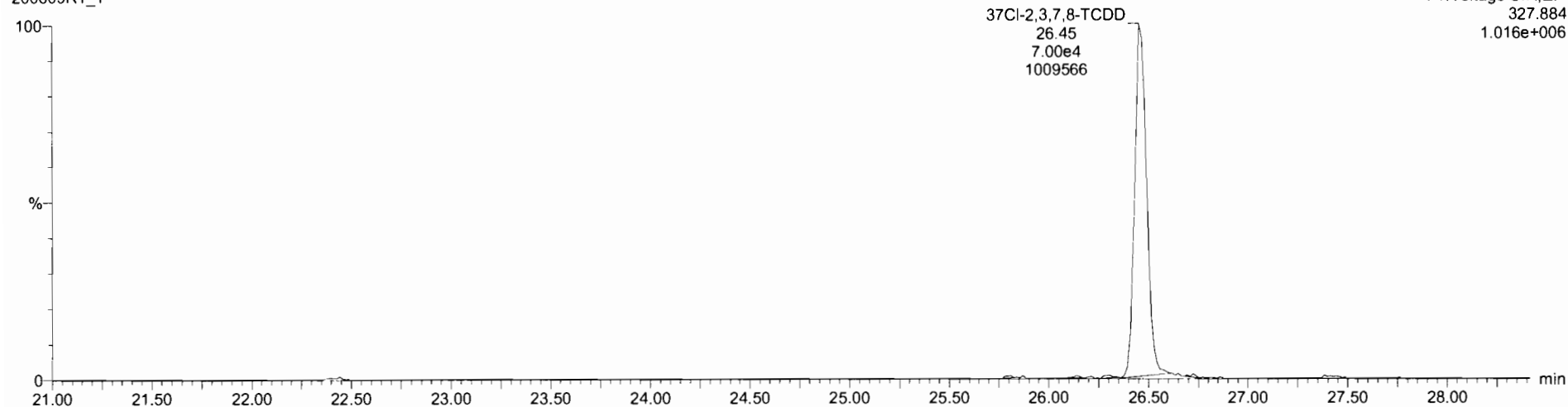
Last Altered: Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

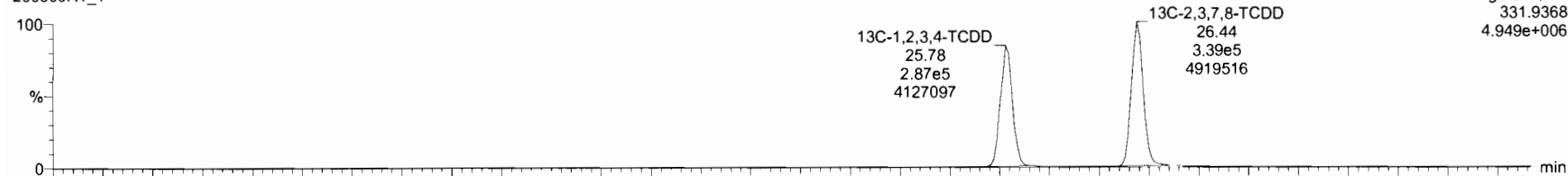
**37Cl-2,3,7,8-TCDD**

200609R1\_1

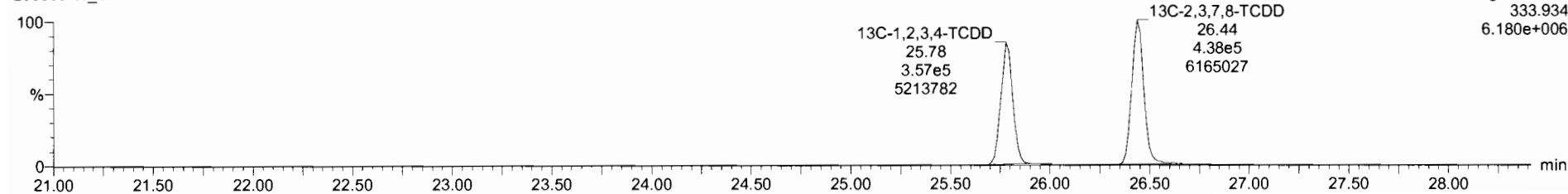


**13C-1,2,3,4-TCDD**

200609R1\_1



200609R1\_1



Dataset: Untitled

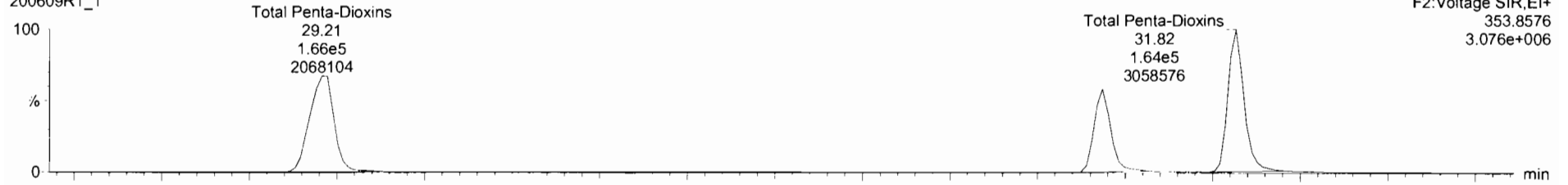
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Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

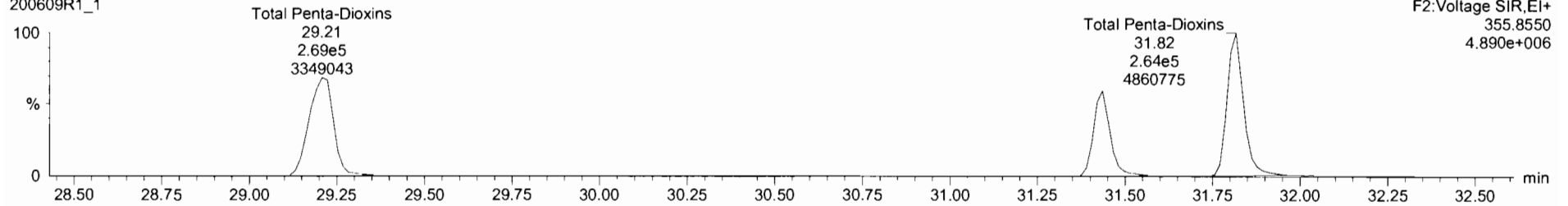
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**1,2,3,7,8-PeCDD**

200609R1\_1

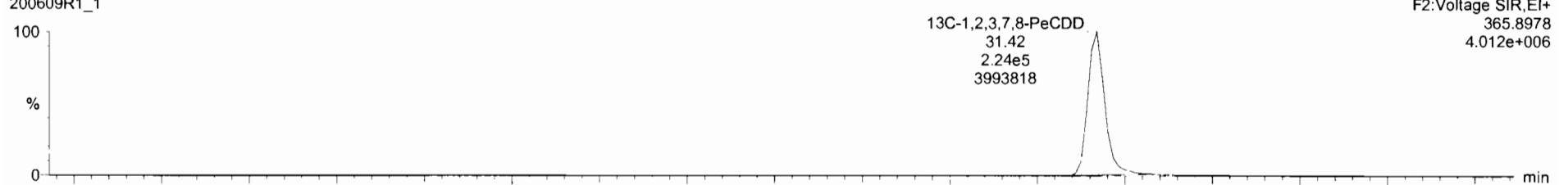


200609R1\_1

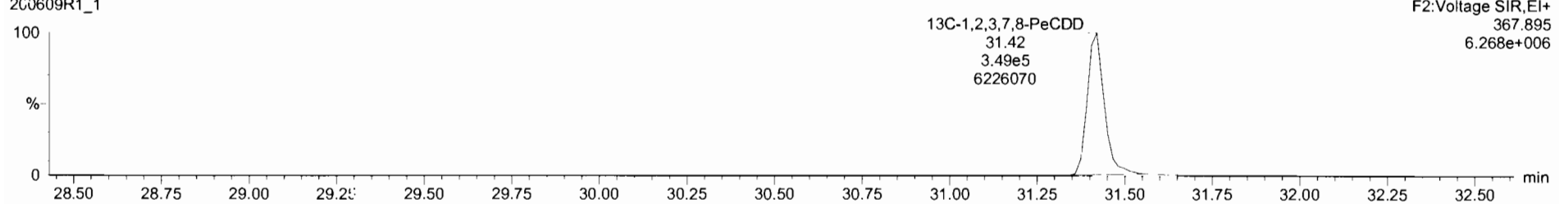


**13C-1,2,3,7,8-PeCDD**

200609R1\_1



200609R1\_1



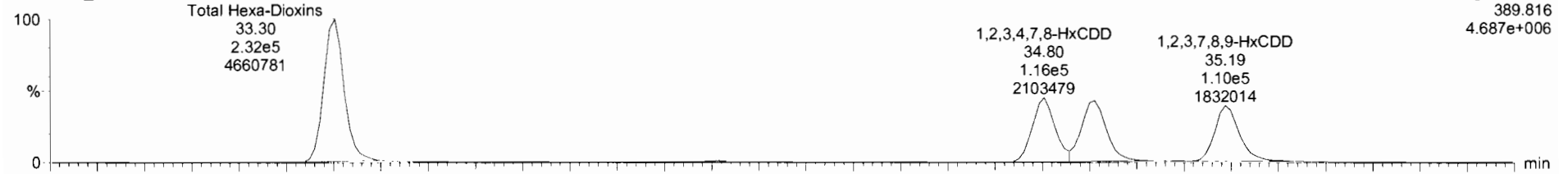
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Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

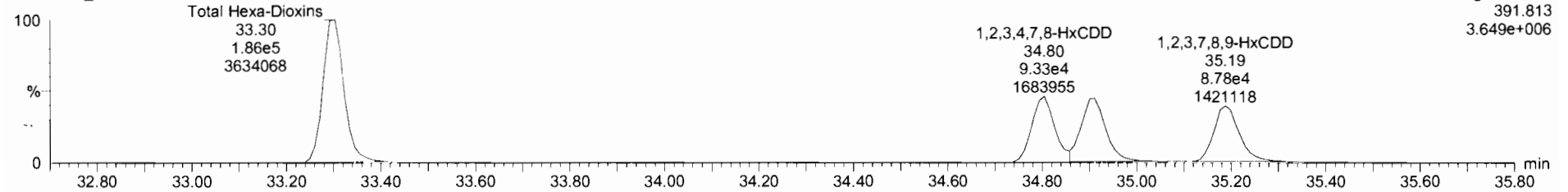
Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200609R1\_1

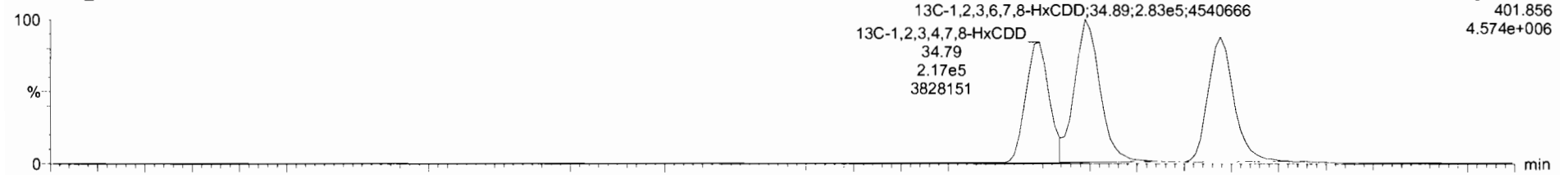


200609R1\_1

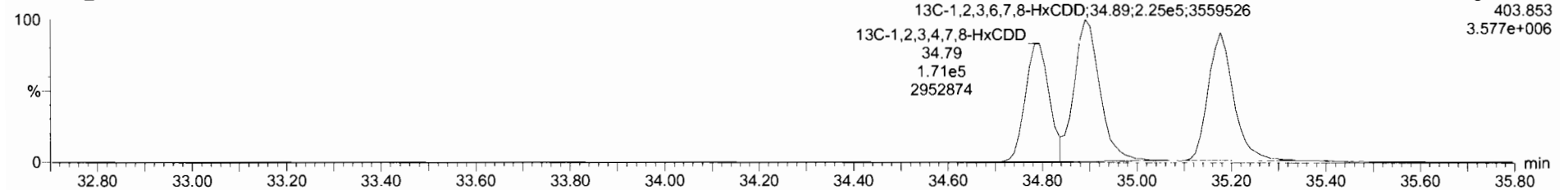


13C-1,2,3,4,7,8-HxCDD

200609R1\_1



200609R1\_1



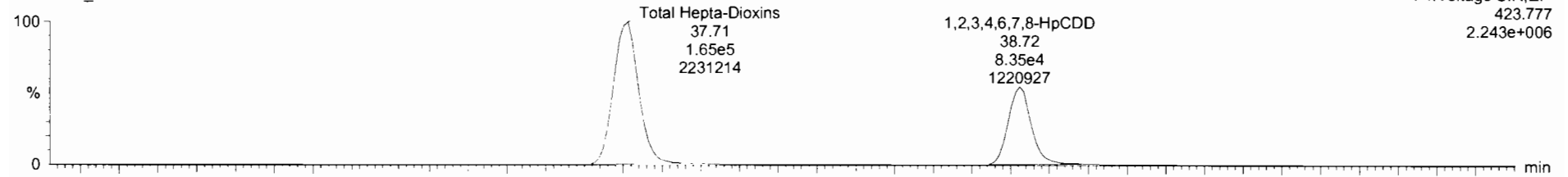
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Last Altered: Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

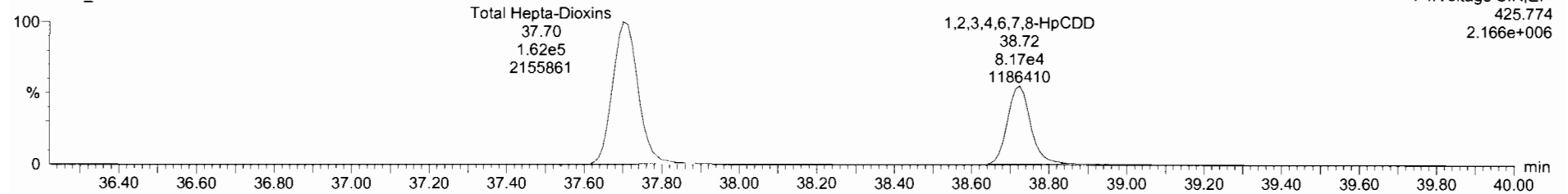
Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200609R1\_1

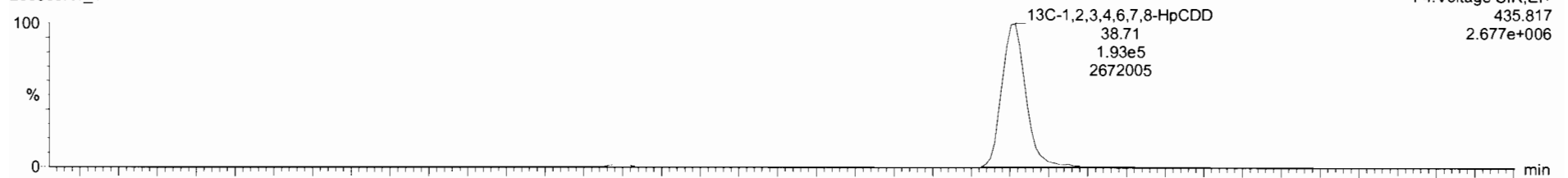


200609R1\_1

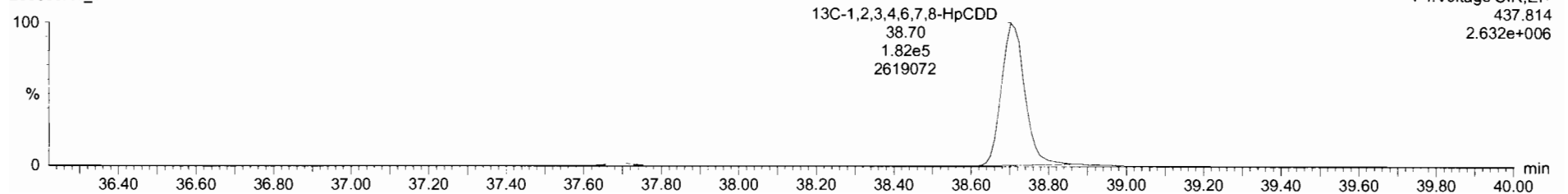


13C-1,2,3,4,6,7,8-HpCDD

200609R1\_1



200609R1\_1





Dataset: Untitled

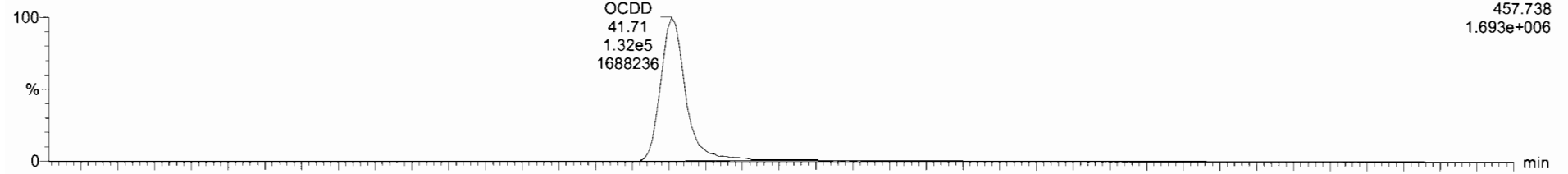
Last Altered: Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

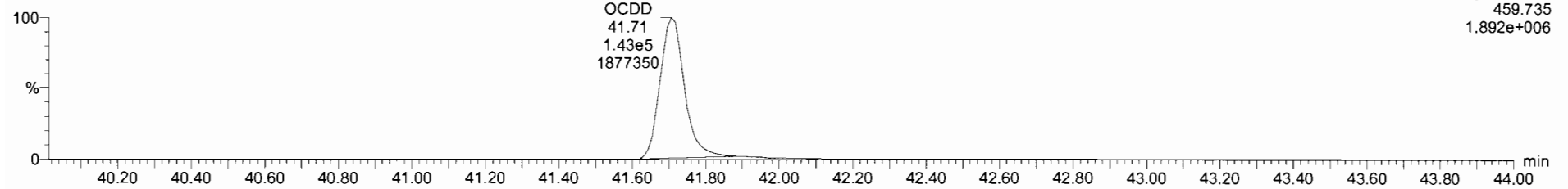
Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

**OCDD**

200609R1\_1

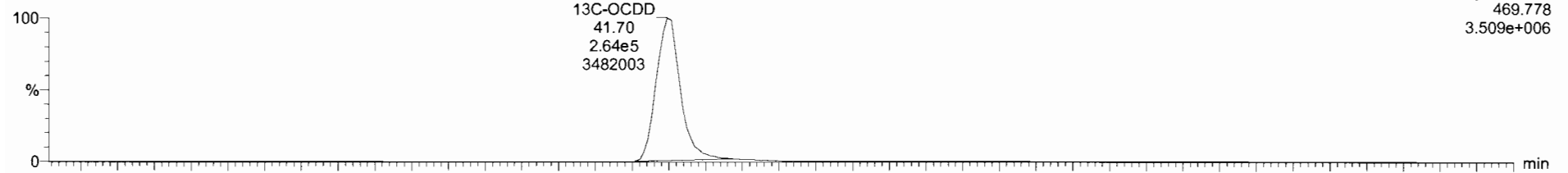


200609R1\_1

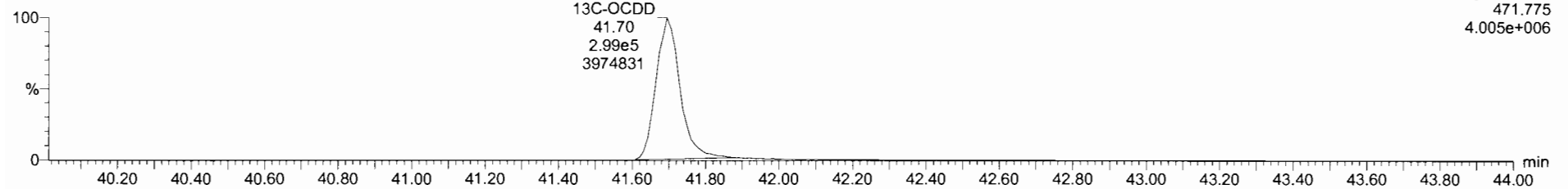


**13C-OCDD**

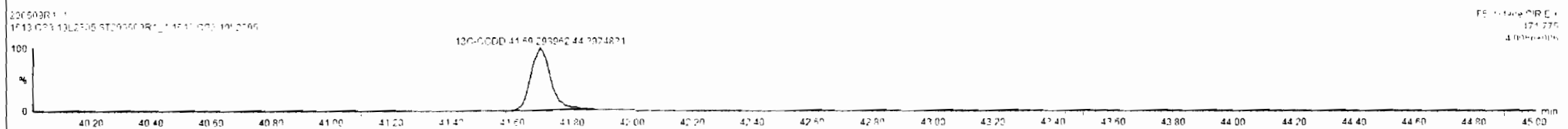
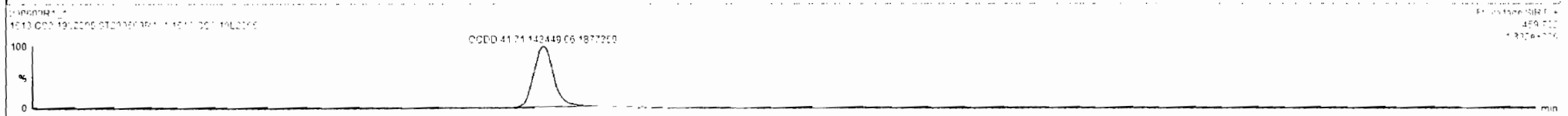
200609R1\_1



200609R1\_1



#	Name	Reso	IS Reso	Pred RA	RA	ny	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	6.59e4	7.76e4	0.77	0.77	NO	0.8883	25.47	25.47	NO	1.001	1.001	97.0	97.0	NO
2	1,2,3,7,8-PeCDD	2.54e5	5.73e5	0.53	0.52	NO	0.9051	31.44	31.42	NO	1.001	1.000	49.9	97.6	NO
3	1,2,3,4,7,8-HxCDD	2.09e5	3.88e5	1.24	1.24	NO	1.0224	34.85	34.80	NO	1.000	1.000	52.1	104	NO
4	1,2,3,6,7,8-HxCDD	2.21e5	5.08e5	1.24	1.25	NO	0.8923	34.89	34.91	NO	1.000	1.001	48.7	97.4	NO
5	1,2,3,7,8,9-HxCDD	1.95e5	4.50e5	1.24	1.25	NO	0.8869	35.19	35.19	NO	1.000	1.000	49.6	99.1	NO
6	1,2,3,4,6,7,8-HpCDD	1.65e5	3.76e5	1.04	1.02	NO	0.8629	35.72	35.72	NO	1.000	1.000	50.9	102	NO
7	<b>OCDD</b>	<b>2.73e5</b>	<b>5.63e5</b>	<b>0.89</b>	<b>0.90</b>	<b>NO</b>	<b>0.9136</b>	<b>41.69</b>	<b>41.71</b>	<b>NO</b>	<b>1.000</b>	<b>1.000</b>	<b>106</b>	<b>106</b>	<b>NO</b>
8	1,2,3,7,8-TCDF	7.75e4	1.06e5	0.72	0.74	NO	0.7510	25.57	25.57	NO	1.001	1.001	97.5	97.6	NO
9	1,2,3,7,8-PeCDF	3.61e5	8.26e5	1.55	1.60	NO	0.8925	30.14	30.15	NO	1.001	1.001	49.3	98.7	NO
10	1,2,3,4,7,8-PeCDF	4.01e5	8.45e5	1.55	1.58	NO	0.9249	31.15	31.12	NO	1.001	1.002	50.7	101	NO
11	1,2,3,4,7,8-HxCDF	2.63e5	5.62e5	1.24	1.22	NO	0.8845	33.91	33.92	NO	1.000	1.001	52.0	106	NO
12	1,2,3,6,7,8-HxCDF	2.89e5	6.30e5	1.24	1.23	NO	0.8892	34.05	34.05	NO	1.000	1.000	51.5	102	NO
13	1,2,3,4,6,7,8-HxCDF	2.72e5	5.61e5	1.24	1.22	NO	0.9241	34.66	34.62	NO	1.001	1.000	52.0	104	NO
14	1,2,3,7,8,9-HxCDF	2.01e5	4.43e5	1.24	1.21	NO	0.8707	35.54	35.55	NO	1.000	1.000	52.0	104	NO
15	1,2,3,4,6,7,8-HpCDF	2.17e5	4.69e5	1.04	1.03	NO	0.8724	37.24	37.22	NO	1.001	1.000	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.45e5	2.72e5	1.04	1.01	NO	1.0225	35.25	35.27	NO	1.000	1.000	52.3	105	NO
17	OCDF	2.75e5	6.43e5	0.89	0.95	NO	0.8655	41.59	41.50	NO	1.000	1.000	106	106	NO



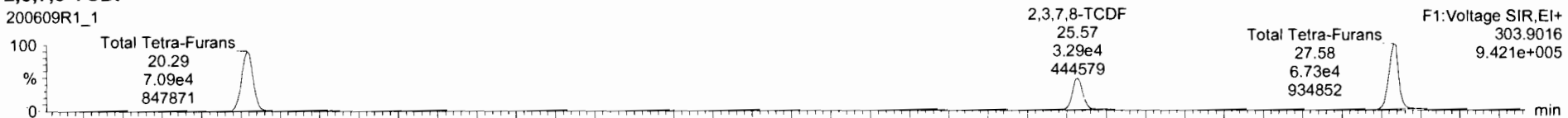
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Last Altered: Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

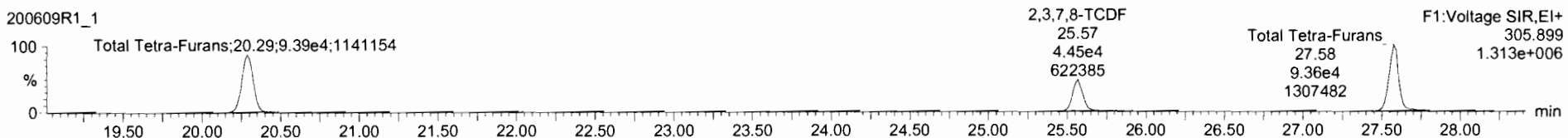
Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200609R1\_1

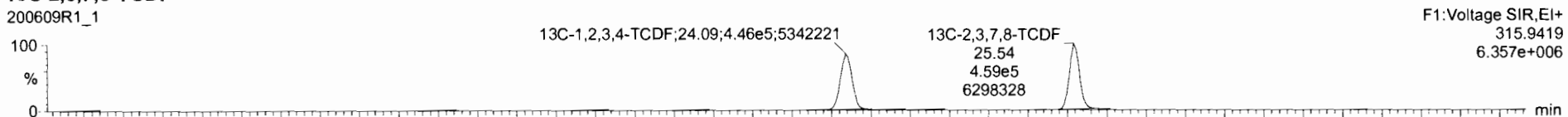


200609R1\_1

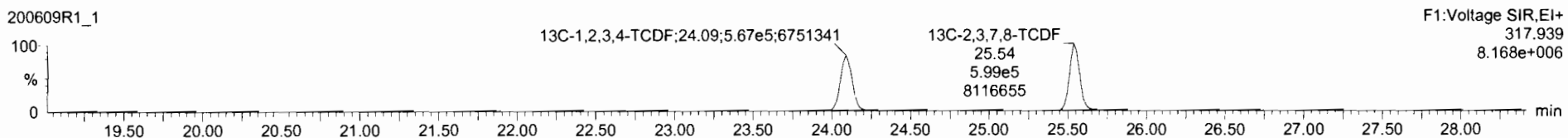


**13C-2,3,7,8-TCDF**

200609R1\_1

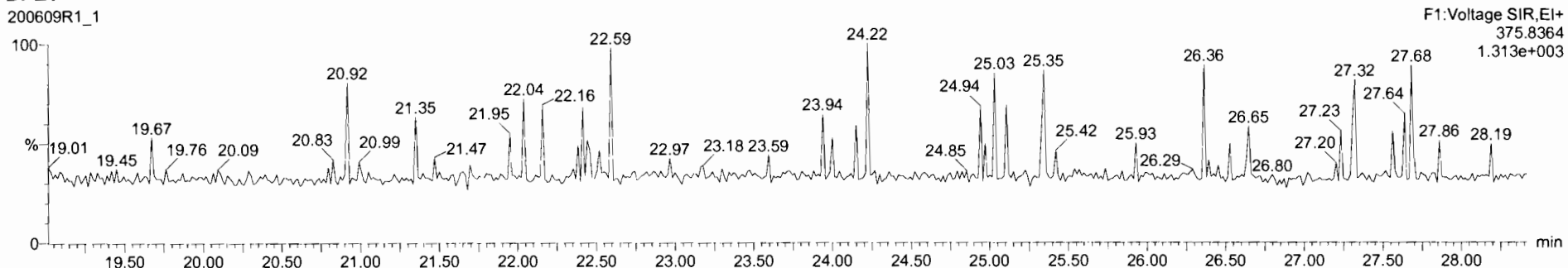


200609R1\_1



**DPE1**

200609R1\_1



Dataset: Untitled

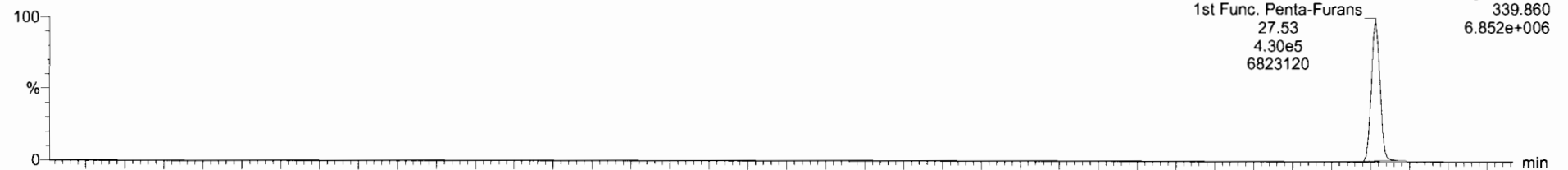
Last Altered: Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

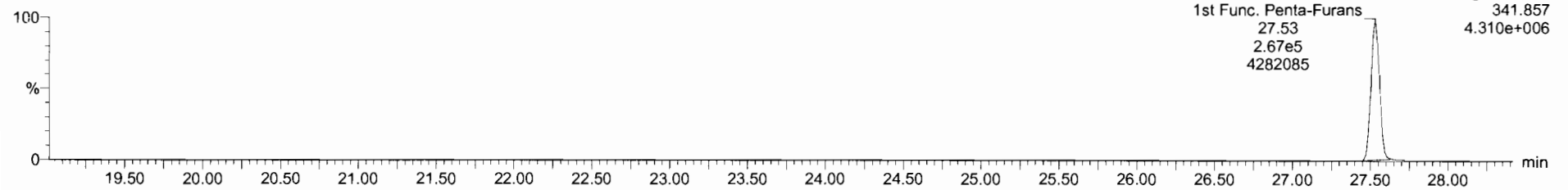
Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200609R1\_1

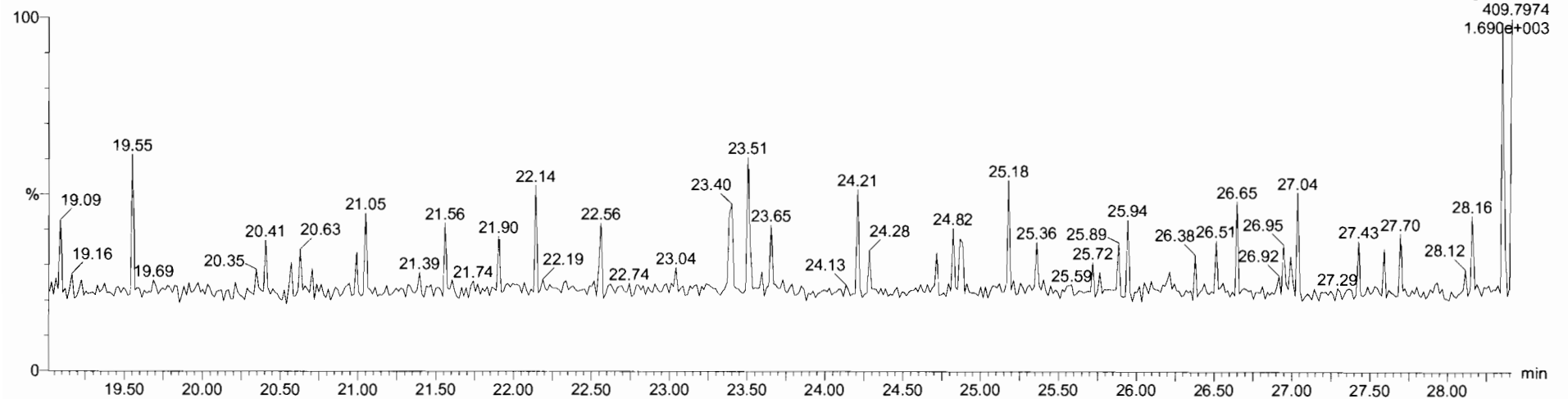


200609R1\_1



DPE6

200609R1\_1



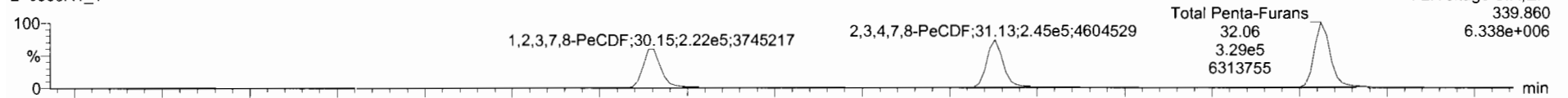
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Last Altered: Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time  
Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

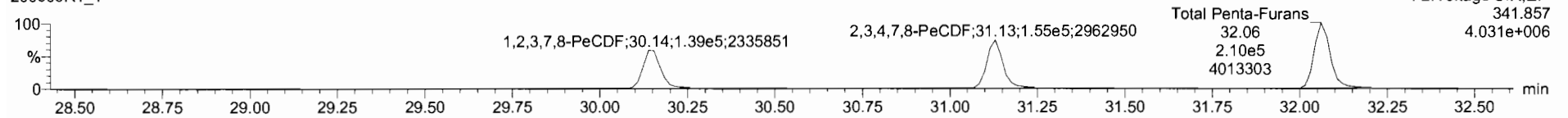
Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200609R1\_1

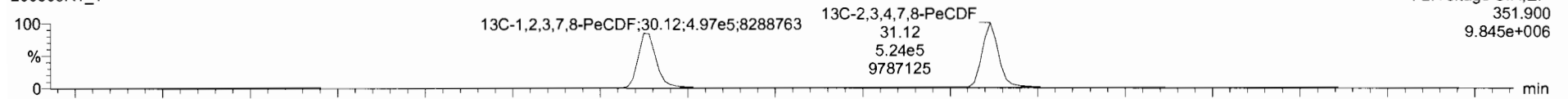


200609R1\_1

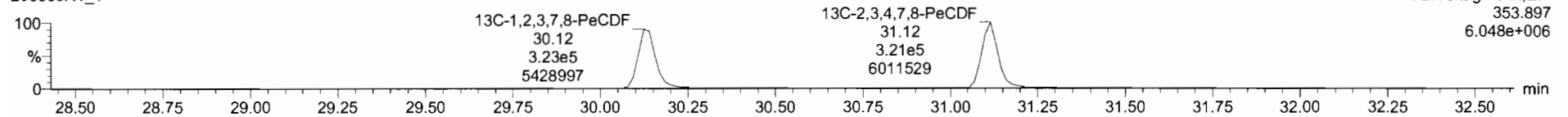


**13C-1,2,3,7,8-PeCDF**

200609R1\_1

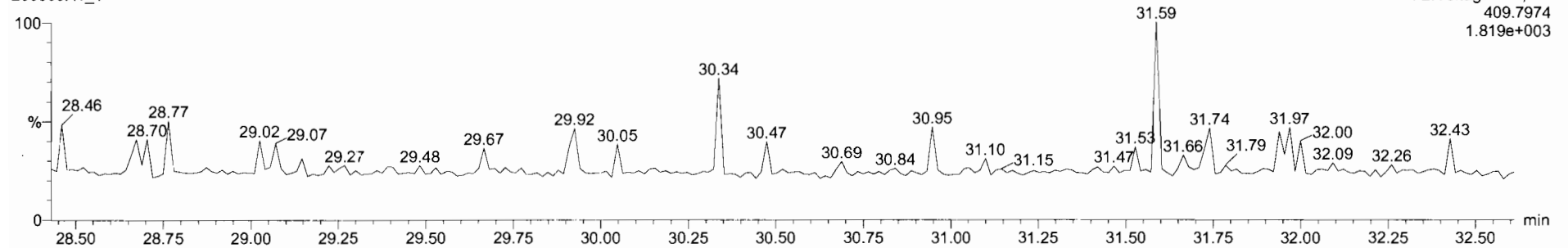


200609R1\_1



**DPE2**

200609R1\_1



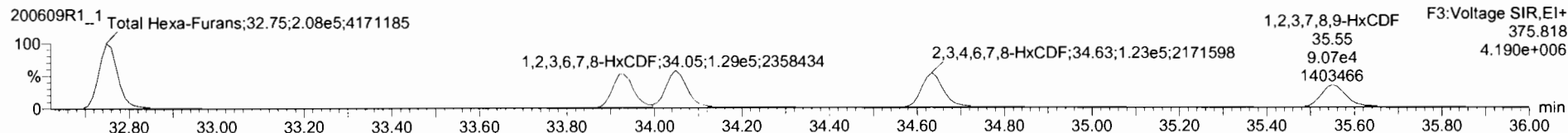
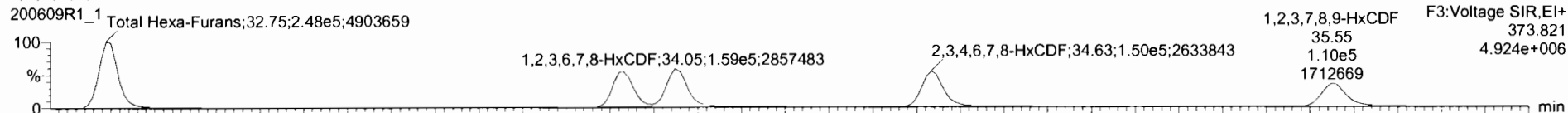
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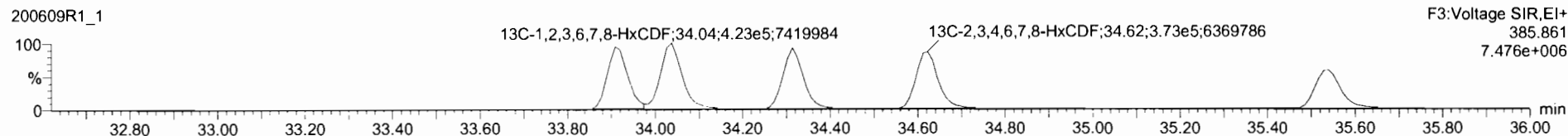
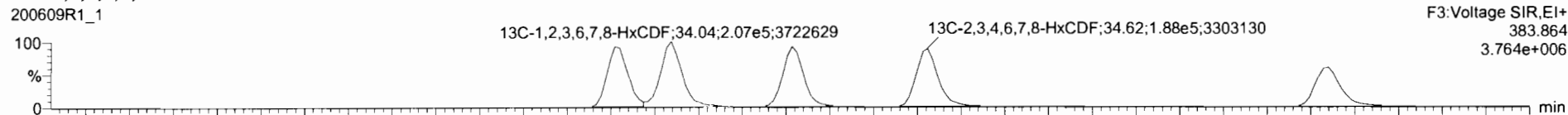
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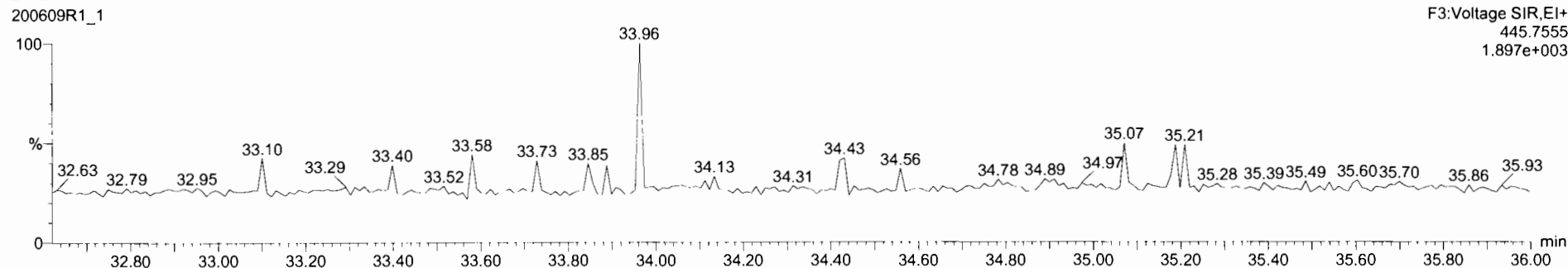
**1,2,3,4,7,8-HxCDF**



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



**DPE3**



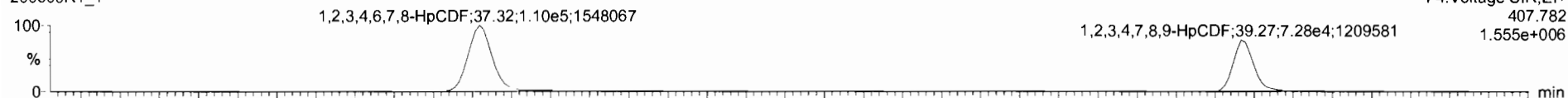
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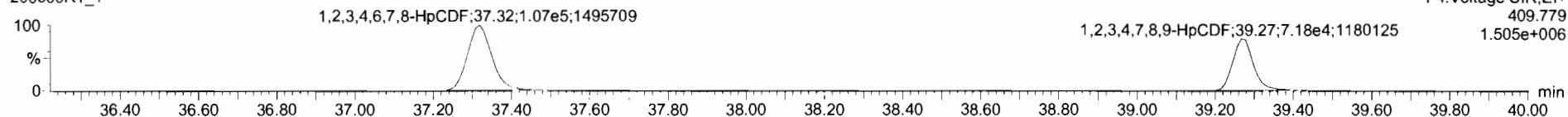
**1,2,3,4,6,7,8-HpCDF**

200609R1\_1



F4: Voltage SIR, EI+  
407.782  
1.555e+006

200609R1\_1



F4: Voltage SIR, EI+  
409.779  
1.505e+006

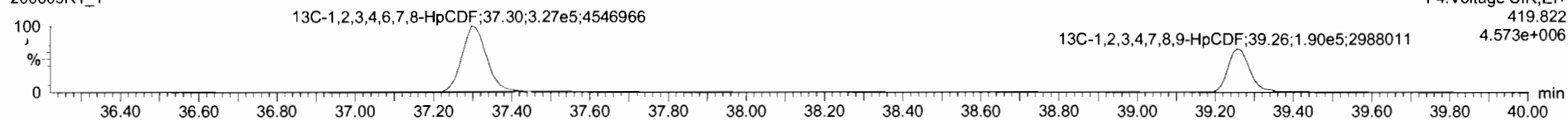
**13C-1,2,3,4,6,7,8-HpCDF**

200609R1\_1



F4: Voltage SIR, EI+  
417.825  
1.952e+006

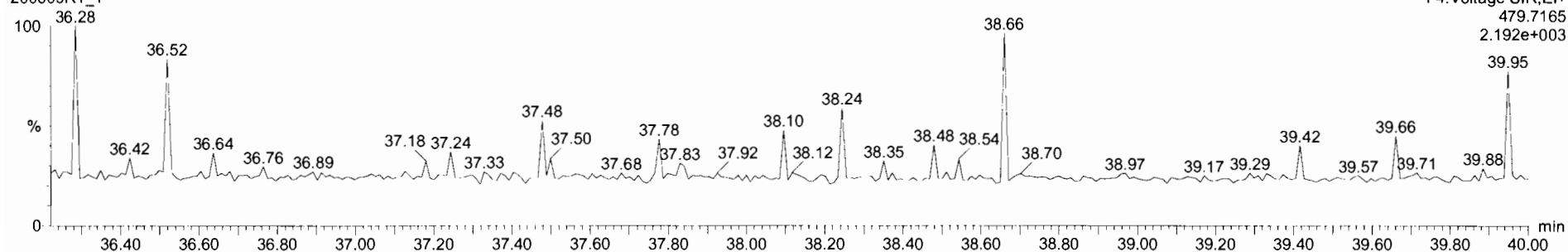
200609R1\_1



F4: Voltage SIR, EI+  
419.822  
4.573e+006

**DPE4**

200609R1\_1

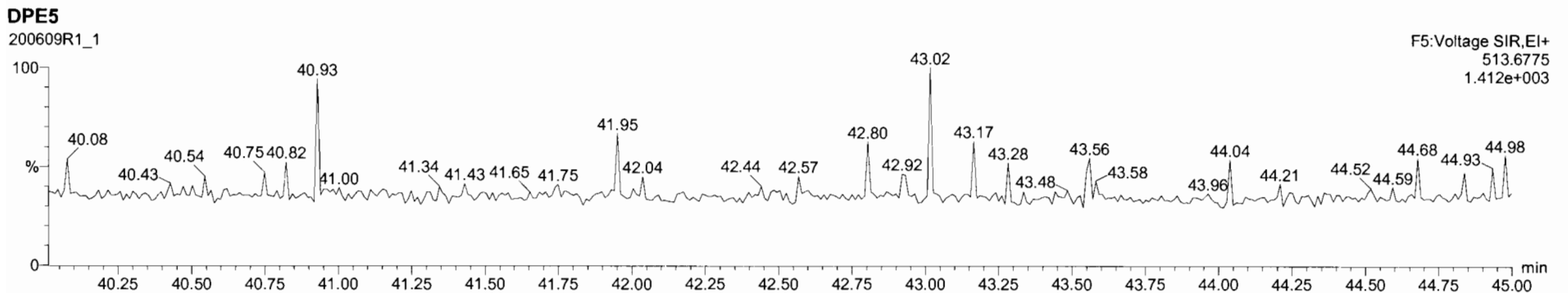
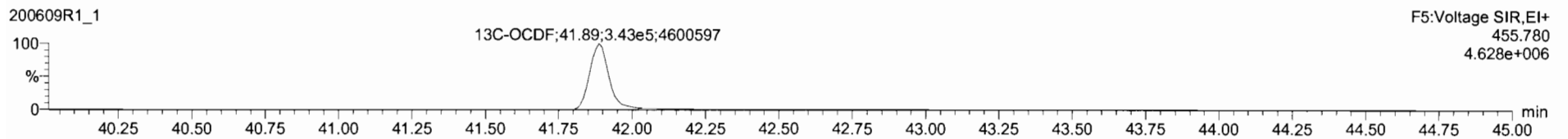
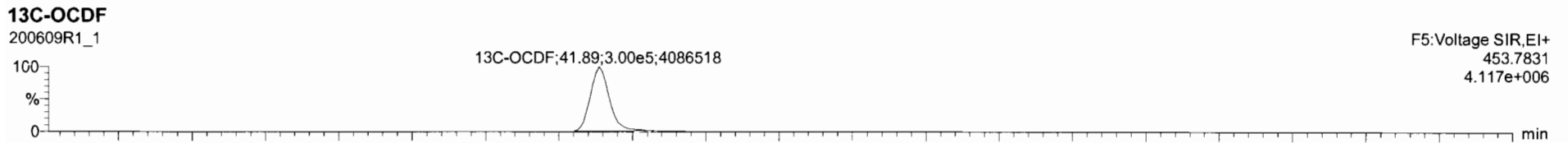
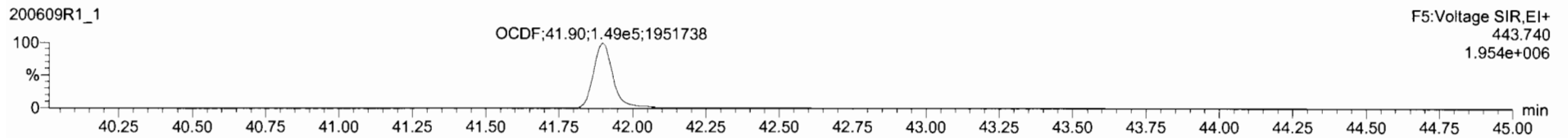
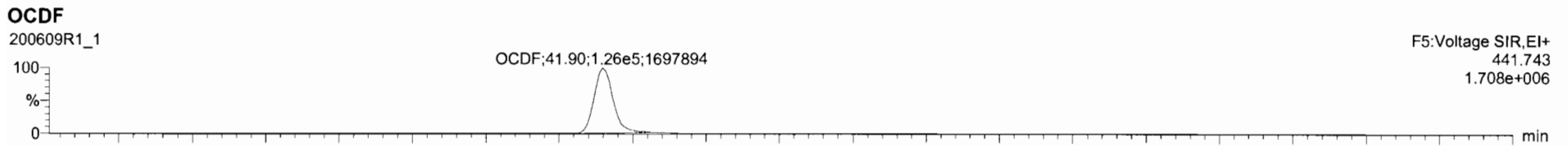


F4: Voltage SIR, EI+  
479.7165  
2.192e+003

Dataset: Untitled

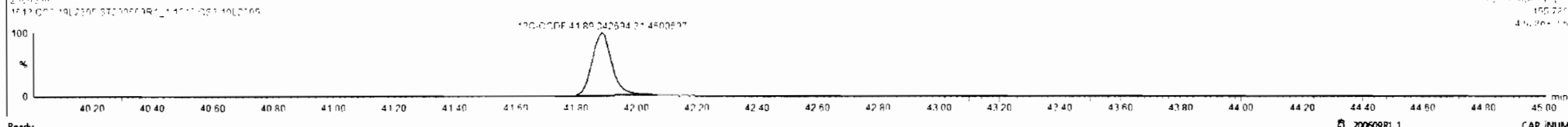
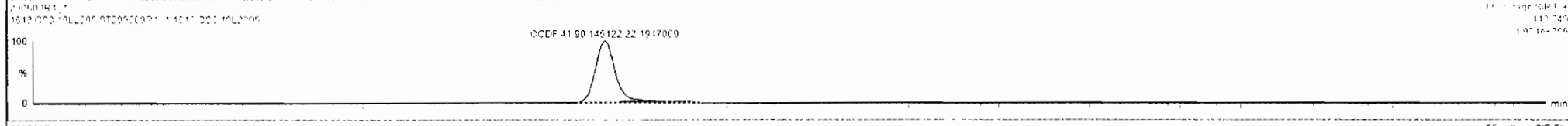
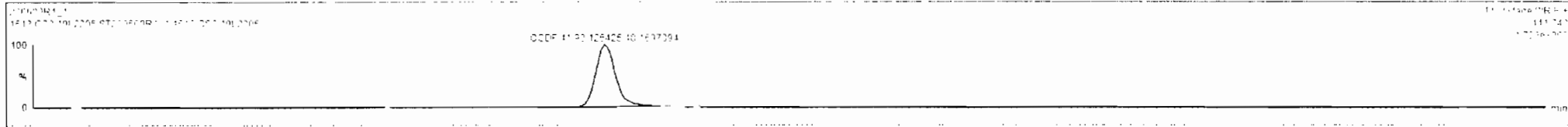
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Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305





#	Name	Resp	IS Resp	Pred RA	RA	n <sub>y</sub>	RRF	Pred RT	RT	R <sup>2</sup> Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.69e4	7.76e5	0.77	0.77	NO	0.8883	25.47	25.47	NO	1.001	1.001	9.70	97.0	NO
2	1,2,3,7,8-PeCDD	2.54e5	5.72e5	0.63	0.62	NO	0.9081	21.44	21.42	NO	1.001	1.000	48.8	97.6	NO
3	1,2,3,4,7,8-HxCDD	2.09e5	3.88e5	1.24	1.24	NO	1.0224	24.80	24.80	NO	1.000	1.000	52.1	104	NO
4	1,2,3,6,7,8-HxCDD	2.21e5	5.08e5	1.24	1.25	NO	0.9522	24.89	24.91	NO	1.000	1.001	48.7	97.4	NO
5	1,2,3,7,8,9-HxCDD	1.99e5	4.50e5	1.24	1.25	NO	0.8869	25.19	25.19	NO	1.000	1.000	49.6	99.1	NO
6	1,2,3,4,6,7,8-HpCDD	1.65e5	3.78e5	1.04	1.02	NO	0.8629	28.72	28.72	NO	1.000	1.000	50.9	102	NO
7	OCDD	2.73e5	5.87e5	0.89	0.90	NO	0.9126	41.69	41.71	NO	1.000	1.000	106	106	NO
8	2,3,7,8-TCDF	7.75e4	1.06e6	0.77	0.74	NO	0.7510	25.57	25.57	NO	1.001	1.001	9.76	97.6	NO
9	1,2,3,7,8-PeCDF	3.81e5	8.20e5	1.55	1.60	NO	0.8925	20.14	20.15	NO	1.001	1.001	49.3	98.7	NO
10	2,3,4,7,8-PeCDF	4.01e5	8.45e5	1.55	1.58	NO	0.9248	21.15	21.12	NO	1.001	1.000	50.7	101	NO
11	1,2,3,4,7,8-HxCDF	2.63e5	5.62e5	1.24	1.22	NO	0.8845	22.91	22.92	NO	1.000	1.001	52.8	105	NO
12	1,3,6,7,8-HxCDF	2.89e5	6.30e5	1.24	1.22	NO	0.8892	24.05	24.05	NO	1.000	1.000	51.5	103	NO
13	2,3,4,6,7,8-HxCDF	2.72e5	5.61e5	1.24	1.22	NO	0.9241	24.66	24.63	NO	1.001	1.000	52.0	104	NO
14	1,2,3,7,8,9-HxCDF	2.01e5	4.43e5	1.24	1.21	NO	0.8707	25.54	25.55	NO	1.000	1.000	52.0	104	NO
15	1,2,3,4,6,7,8-HpCDF	2.17e5	4.69e5	1.04	1.03	NO	0.8724	27.24	27.22	NO	1.001	1.000	52.9	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.45e5	2.73e5	1.04	1.01	NO	1.0128	29.25	29.27	NO	1.000	1.000	52.2	105	NO
17	OCDF	2.72e5	6.43e5	0.89	0.87	NO	0.8065	41.89	41.90	NO	1.000	1.000	105	105	NO

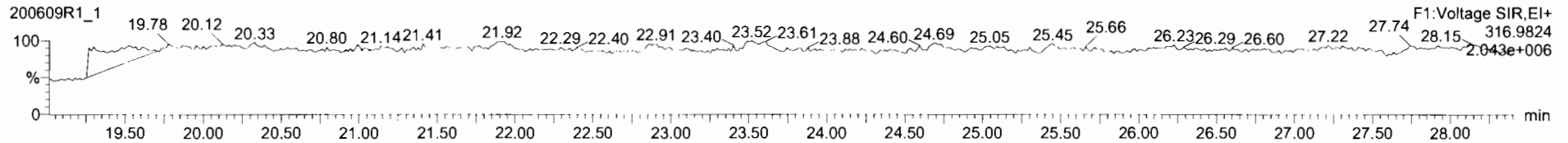


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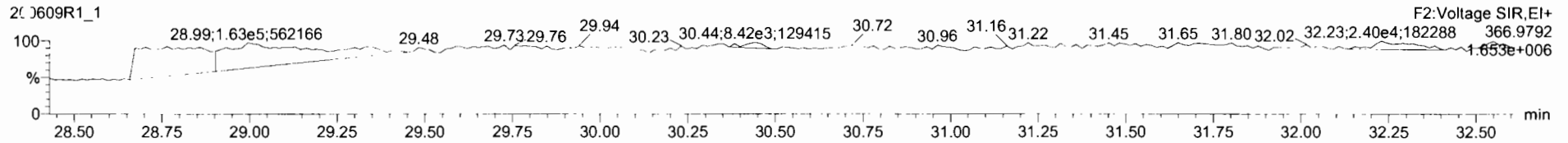
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Printed: Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time

Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

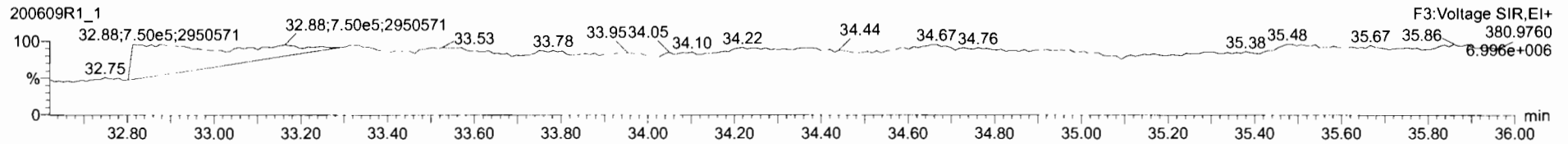
PFK1



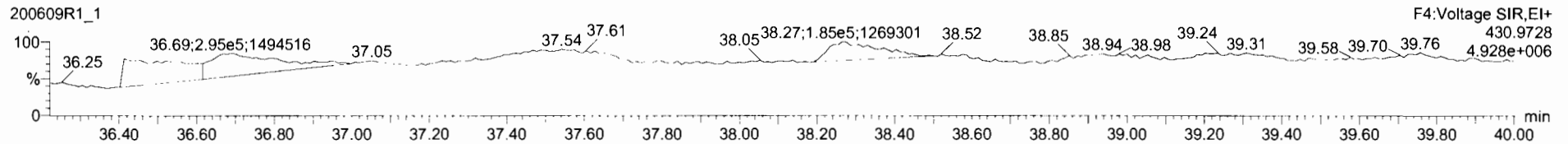
PFK2



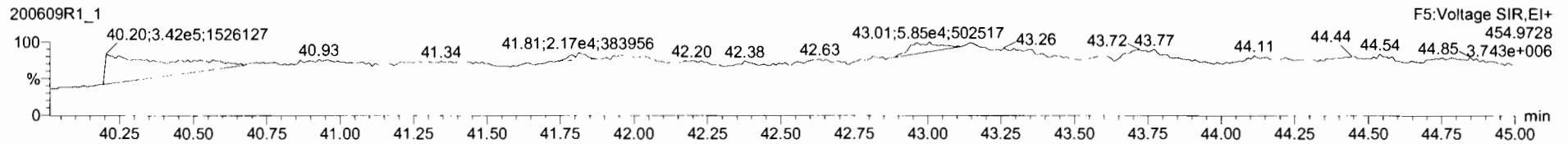
PFK3



PFK4

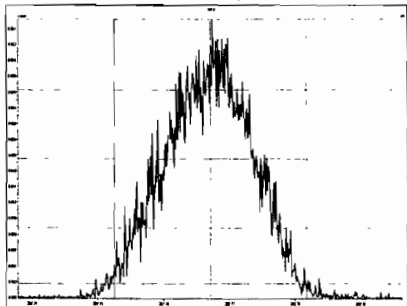


PFK5

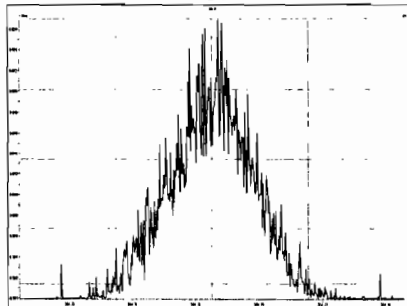


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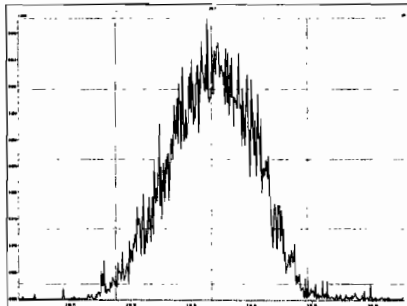
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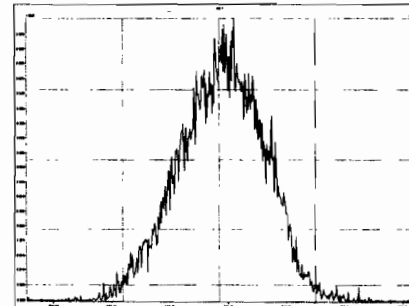
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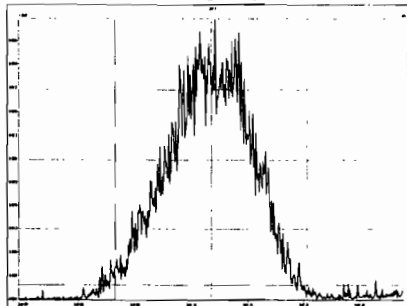
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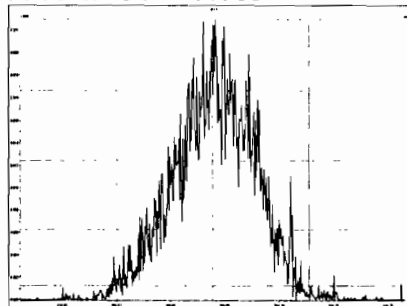
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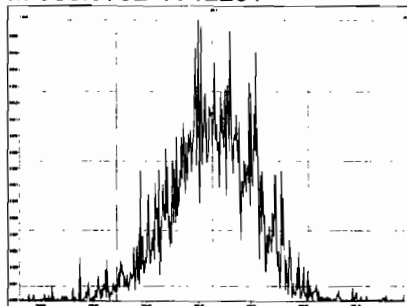
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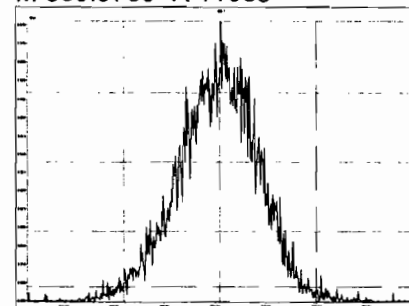
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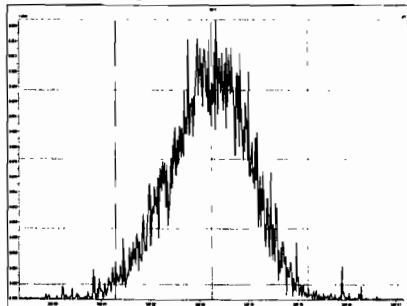
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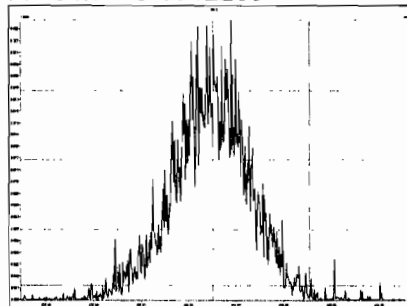
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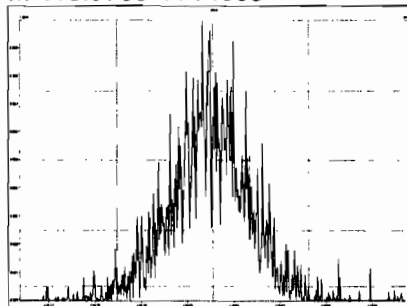
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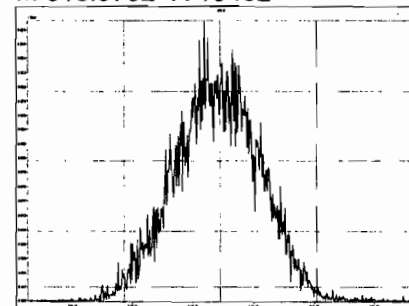
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M 416.9760 R 14053

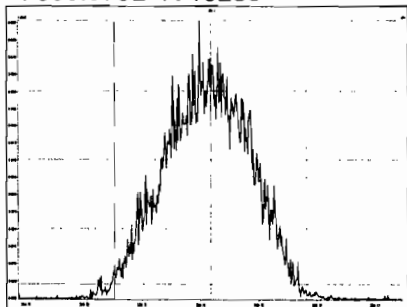


M 318.9792 R 10482

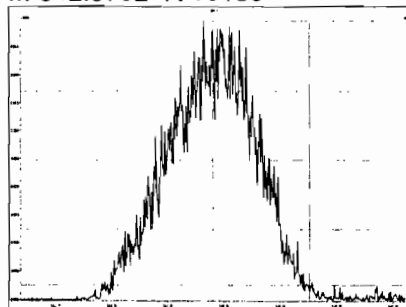


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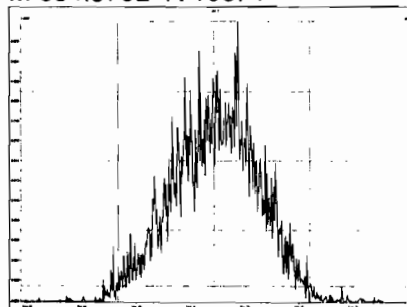
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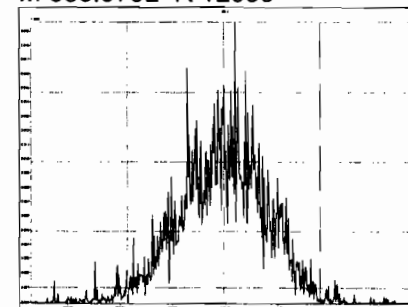
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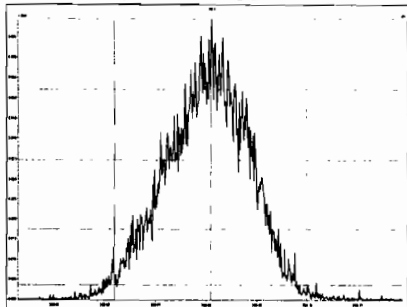
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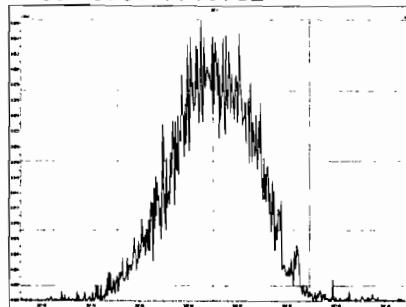
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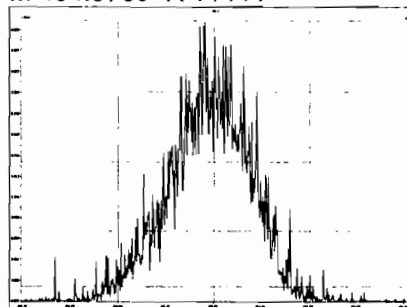
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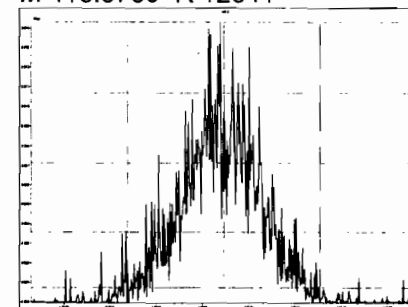
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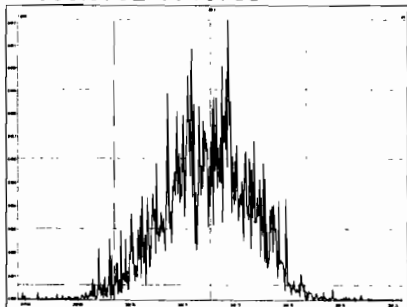
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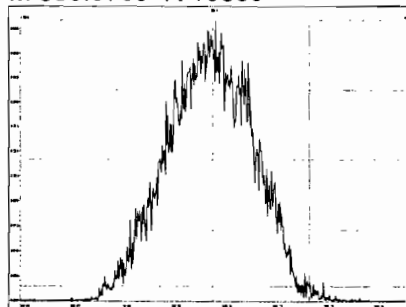
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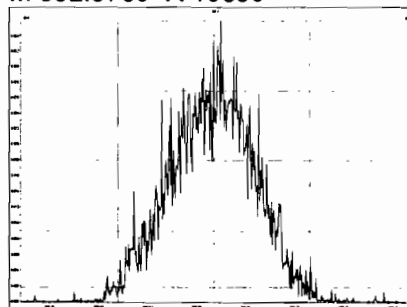
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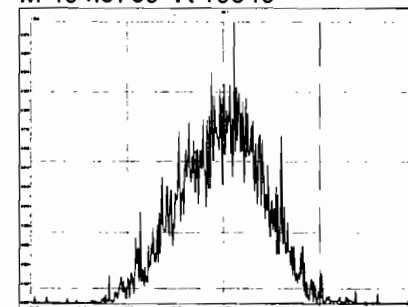
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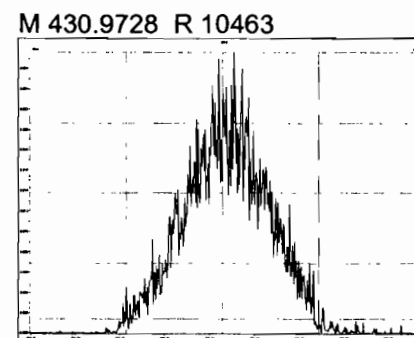
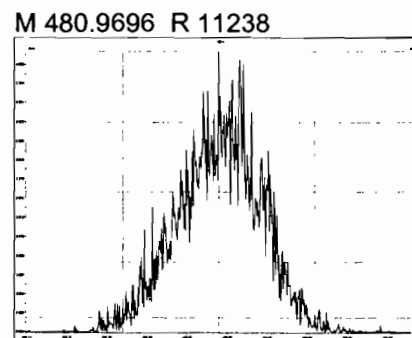
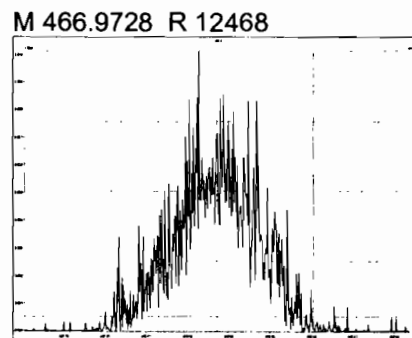
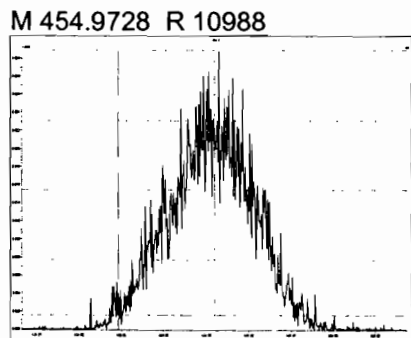
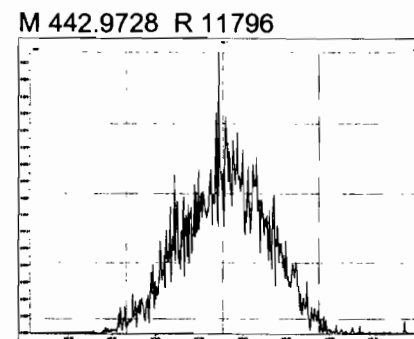
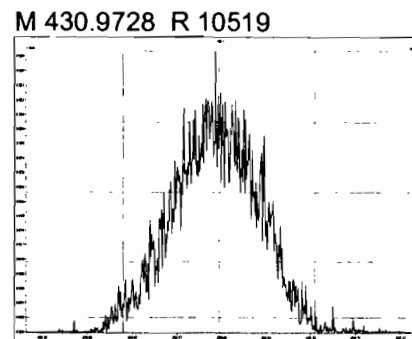
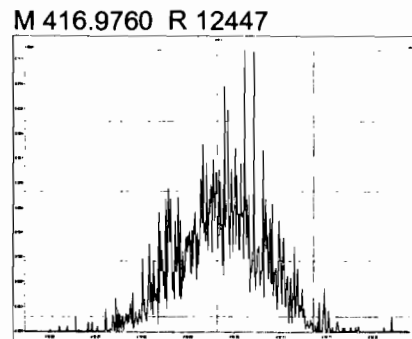
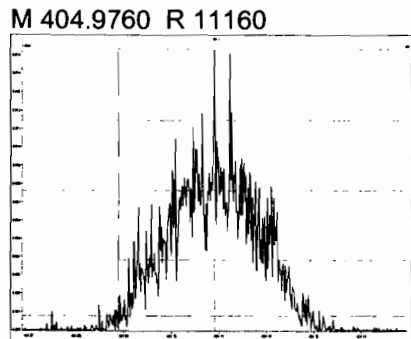
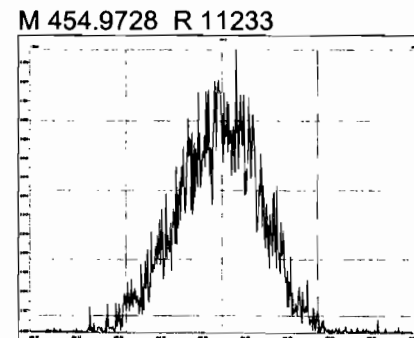
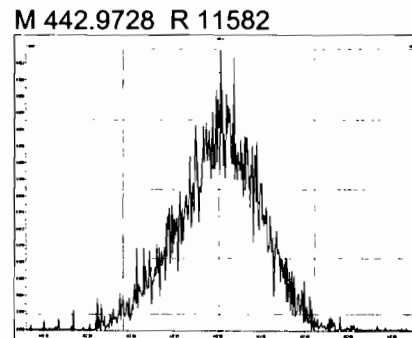
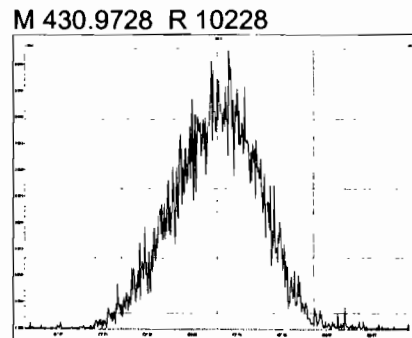
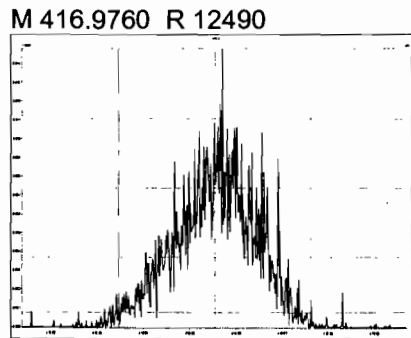
M 392.9760 R 10690



M 404.9760 R 10940

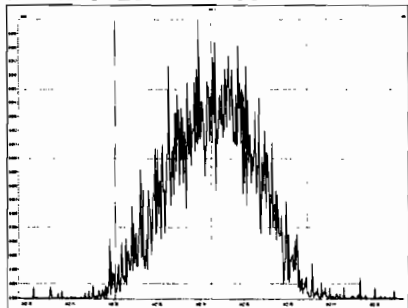


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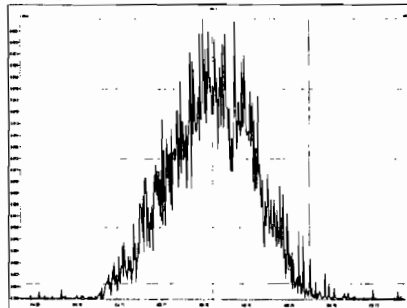


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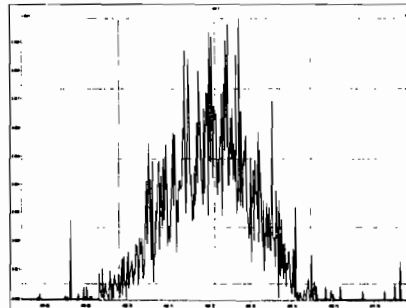
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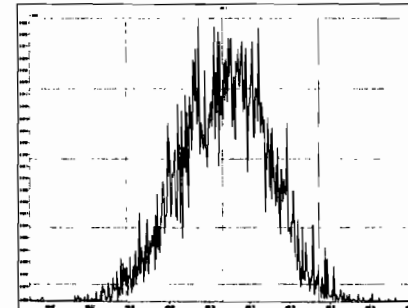
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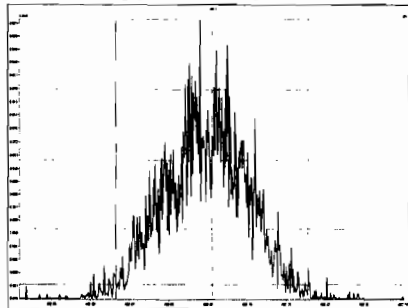
M 466.9728 R 12297



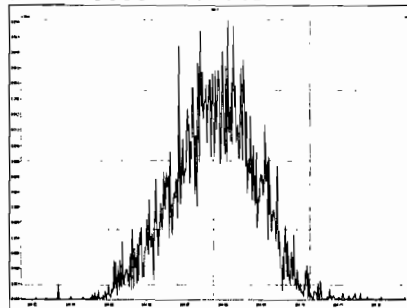
M 480.9696 R 11201



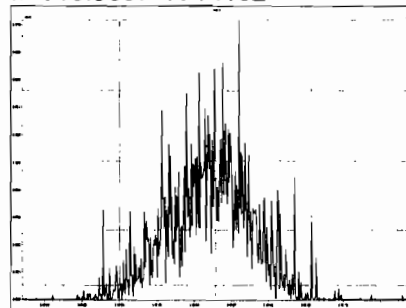
M 492.9696 R 11286



M 504.9696 R 11148



M 516.9697 R 14102



## **INITIAL CALIBRATION**

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

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*GRB 05/29/2020*

*CI 05/29/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17  
Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

**Compound name: 2,3,7,8-TCDD**

Response Factor: 0.88831  
RRF SD: 0.0677802, Relative SD: 7.63025  
Response type: Internal Std ( Ref 18 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250	0.68	NO	26.54	1.000	2.70e3	1.43e6	0.213	-14.8	0.757	bb
2	200528R2_2	0.500	0.78	NO	26.57	1.001	5.69e3	1.29e6	0.497	-0.6	0.883	bb
3	200528R2_3	2.00	0.80	NO	26.57	1.001	2.40e4	1.31e6	2.06	3.1	0.916	bb
4	200528R2_4	40.0	0.78	NO	26.56	1.001	5.50e5	1.50e6	41.2	3.0	0.915	bb
5	200528R2_5	300	0.78	NO	26.59	1.001	4.32e6	1.52e6	321	6.9	0.949	bb
6	200528R2_6	10.0	0.81	NO	26.59	1.001	1.06e5	1.16e6	10.2	2.4	0.910	dd

**Compound name: 1,2,3,7,8-PeCDD**

Response Factor: 0.908065  
RRF SD: 0.0455724, Relative SD: 5.01862  
Response type: Internal Std ( Ref 19 ), Area \* ( IS Conc. / IS Area )  
Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.66	NO	31.50	1.000	1.03e4	1.00e6	1.12	-10.0	0.817	bb
2	200528R2_2	2.50	0.64	NO	31.51	1.000	2.12e4	9.36e5	2.50	-0.1	0.908	bb
3	200528R2_3	10.0	0.63	NO	31.51	1.000	8.60e4	9.29e5	10.2	1.9	0.926	bb
4	200528R2_4	200	0.63	NO	31.51	1.000	2.06e6	1.11e6	205	2.4	0.930	bb
5	200528R2_5	1500	0.63	NO	31.51	1.000	1.69e7	1.21e6	1550	3.0	0.935	bb
6	200528R2_6	50.0	0.62	NO	31.53	1.001	3.95e5	8.48e5	51.3	2.7	0.932	bb



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**Compound name: 1,2,3,4,7,8-HxCDD**

Response Factor: 1.03343

RRF SD: 0.0545572, Relative SD: 5.27925

Response type: Internal Std ( Ref 20 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.27	NO	34.86	1.000	8.03e3	6.95e5	1.12	-10.6	0.924	MM
2	200528R2_2	2.50	1.27	NO	34.88	1.000	1.69e4	6.46e5	2.53	1.2	1.05	bd
3	200528R2_3	10.0	1.24	NO	34.88	1.000	6.94e4	6.61e5	10.2	1.6	1.05	bd
4	200528R2_4	200	1.23	NO	34.88	1.001	1.67e6	7.89e5	204	2.1	1.06	MM
5	200528R2_5	1500	1.23	NO	34.88	1.000	1.47e7	9.34e5	1520	1.5	1.05	bd
6	200528R2_6	50.0	1.23	NO	34.89	1.000	3.25e5	6.04e5	52.1	4.1	1.08	bd

**Compound name: 1,2,3,6,7,8-HxCDD**

Response Factor: 0.892293

RRF SD: 0.0561127, Relative SD: 6.28859

Response type: Internal Std ( Ref 21 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.23	NO	34.97	1.001	9.27e3	9.27e5	1.12	-10.3	0.800	db
2	200528R2_2	2.50	1.25	NO	34.99	1.001	1.90e4	8.61e5	2.47	-1.1	0.883	db
3	200528R2_3	10.0	1.24	NO	34.99	1.000	8.01e4	8.39e5	10.7	7.0	0.954	db
4	200528R2_4	200	1.22	NO	34.99	1.001	1.92e6	1.03e6	209	4.3	0.931	MM
5	200528R2_5	1500	1.23	NO	34.99	1.000	1.61e7	1.17e6	1550	3.5	0.923	db
6	200528R2_6	50.0	1.24	NO	35.00	1.001	3.51e5	8.15e5	48.3	-3.4	0.862	db

**Compound name: 1,2,3,7,8,9-HxCDD**

Response Factor: 0.886936

RRF SD: 0.0582559, Relative SD: 6.56822

Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.20	NO	35.25	1.000	8.14e3	8.33e5	1.10	-11.9	0.782	bb
2	200528R2_2	2.50	1.21	NO	35.27	1.001	1.62e4	7.48e5	2.44	-2.3	0.866	bb

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**Compound name: 1,2,3,7,8,9-HxCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.26	NO	35.26	1.000	7.01e4	7.53e5	10.5	4.9	0.931	bb
4	200528R2_4	200	1.20	NO	35.26	1.000	1.70e6	9.12e5	210	4.9	0.931	bb
5	200528R2_5	1500	1.22	NO	35.27	1.000	1.47e7	1.06e6	1570	4.5	0.927	bb
6	200528R2_6	50.0	1.24	NO	35.27	1.000	3.12e5	7.05e5	49.9	-0.2	0.886	bb

**Compound name: 1,2,3,4,6,7,8-HpCDD**

Response Factor: 0.863903

RRF SD: 0.0694586, Relative SD: 8.04009

Response type: Internal Std ( Ref 23 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	38.78	1.000	6.10e3	6.48e5	1.09	-12.8	0.753	MM
2	200528R2_2	2.50	1.05	NO	38.81	1.001	1.21e4	6.01e5	2.33	-6.7	0.806	bb
3	200528R2_3	10.0	1.03	NO	38.80	1.000	4.99e4	5.57e5	10.4	3.7	0.896	bd
4	200528R2_4	200	1.02	NO	38.80	1.000	1.25e6	6.86e5	211	5.5	0.911	bb
5	200528R2_5	1500	1.01	NO	38.81	1.000	1.15e7	8.18e5	1620	8.0	0.933	bb
6	200528R2_6	50.0	1.03	NO	38.81	1.000	2.29e5	5.18e5	51.2	2.4	0.884	MM

**Compound name: OCDD**

Response Factor: 0.913637

RRF SD: 0.0452527, Relative SD: 4.95303

Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.85	NO	41.76	1.000	1.23e4	1.18e6	2.27	-9.1	0.831	bd
2	200528R2_2	5.00	0.83	NO	41.77	1.000	2.39e4	1.05e6	4.97	-0.6	0.908	bd
3	200528R2_3	20.0	0.89	NO	41.78	1.000	9.89e4	1.03e6	21.0	4.9	0.959	MM
4	200528R2_4	400	0.87	NO	41.77	1.000	2.45e6	1.35e6	397	-0.6	0.908	MM
5	200528R2_5	3000	0.84	NO	41.79	1.000	2.37e7	1.67e6	3100	3.2	0.943	MM
6	200528R2_6	100	0.88	NO	41.78	1.000	4.53e5	9.71e5	102	2.2	0.933	MM

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**Compound name: 2,3,7,8-TCDF**

Response Factor: 0.75098

RF SD: 0.0524401, Relative SD: 6.98288

Response type: Internal Std ( Ref 25 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250	0.73	NO	25.67	1.001	3.27e3	1.95e6	0.223	-10.9	0.669	bb
2	200528R2_2	0.500	0.75	NO	25.67	1.001	6.53e3	1.78e6	0.488	-2.3	0.733	bb
3	200528R2_3	2.00	0.74	NO	25.68	1.001	2.67e4	1.80e6	1.97	-1.4	0.740	bb
4	200528R2_4	40.0	0.76	NO	25.68	1.001	6.52e5	2.04e6	42.6	6.5	0.800	bb
5	200528R2_5	300	0.75	NO	25.69	1.001	5.00e6	2.04e6	326	8.6	0.816	bb
6	200528R2_6	10.0	0.74	NO	25.69	1.001	1.19e5	1.59e6	9.96	-0.4	0.748	bb

**Compound name: 1,2,3,7,8-PeCDF**

Response Factor: 0.892531

RRF SD: 0.0599961, Relative SD: 6.72201

Response type: Internal Std ( Ref 26 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.61	NO	30.20	1.000	1.46e4	1.50e6	1.09	-12.9	0.777	bb
2	200528R2_2	2.50	1.55	NO	30.23	1.000	3.08e4	1.37e6	2.52	0.8	0.900	bd
3	200528R2_3	10.0	1.55	NO	30.23	1.000	1.31e5	1.38e6	10.7	7.0	0.955	bb
4	200528R2_4	200	1.54	NO	30.23	1.000	2.94e6	1.63e6	203	1.4	0.905	bb
5	200528R2_5	1500	1.54	NO	30.23	1.000	2.38e7	1.75e6	1520	1.3	0.904	bb
6	200528R2_6	50.0	1.57	NO	30.25	1.000	5.72e5	1.25e6	51.2	2.5	0.915	bb

**Compound name: 2,3,4,7,8-PeCDF**

Response Factor: 0.934777

RRF SD: 0.0507076, Relative SD: 5.42456

Response type: Internal Std ( Ref 27 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.56	NO	31.19	1.000	1.48e4	1.42e6	1.12	-10.8	0.834	bb
2	200528R2_2	2.50	1.55	NO	31.21	1.000	3.19e4	1.35e6	2.52	0.8	0.943	bd



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**Compound name: 2,3,4,7,8-PeCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.55	NO	31.21	1.000	1.34e5	1.38e6	10.4	3.7	0.969	bb
4	200528R2_4	200	1.54	NO	31.21	1.000	3.00e6	1.57e6	204	2.2	0.955	bb
5	200528R2_5	1500	1.53	NO	31.21	1.000	2.45e7	1.69e6	1550	3.4	0.967	bb
6	200528R2_6	50.0	1.57	NO	31.22	1.000	5.81e5	1.24e6	50.3	0.7	0.941	bb

**Compound name: 1,2,3,4,7,8-HxCDF**

Response Factor: 0.884459

RRF SD: 0.0674086, Relative SD: 7.62145

Response type: Internal Std ( Ref 28 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.25	NO	33.99	1.001	8.98e3	9.42e5	1.08	-13.8	0.762	bd
2	200528R2_2	2.50	1.19	NO	33.99	1.000	1.81e4	8.49e5	2.41	-3.7	0.852	bd
3	200528R2_3	10.0	1.22	NO	34.01	1.001	7.91e4	8.47e5	10.6	5.6	0.934	bd
4	200528R2_4	200	1.18	NO	33.99	1.000	1.87e6	1.02e6	208	3.9	0.919	bd
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bd
6	200528R2_6	50.0	1.21	NO	34.01	1.000	3.56e5	7.87e5	51.1	2.2	0.904	bd

**Compound name: 1,2,3,6,7,8-HxCDF**

Response Factor: 0.889174

RRF SD: 0.0479606, Relative SD: 5.39384

Response type: Internal Std ( Ref 29 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.16	NO	34.11	1.001	1.07e4	1.07e6	1.12	-10.7	0.794	MM
2	200528R2_2	2.50	1.25	NO	34.12	1.000	2.16e4	9.70e5	2.50	0.1	0.890	MM
3	200528R2_3	10.0	1.28	NO	34.12	1.000	9.20e4	1.01e6	10.3	2.7	0.914	MM
4	200528R2_4	200	1.18	NO	34.12	1.001	2.16e6	1.18e6	206	2.8	0.914	db
5	200528R2_5	1500	1.19	NO	34.12	1.000	1.80e7	1.33e6	1520	1.2	0.900	db
6	200528R2_6	50.0	1.25	NO	34.13	1.000	4.22e5	9.14e5	51.9	3.8	0.923	MM

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**Compound name: 2,3,4,6,7,8-HxCDF**

Response Factor: 0.934102  
 RRF SD: 0.0631666, Relative SD: 6.76228  
 Response type: Internal Std ( Ref 30 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.09	NO	34.70	1.001	9.51e3	9.22e5	1.10	-11.7	0.825	bb
2	200528R2_2	2.50	1.26	NO	34.71	1.001	1.93e4	8.66e5	2.38	-4.7	0.890	bb
3	200528R2_3	10.0	1.25	NO	34.71	1.000	8.53e4	8.69e5	10.5	5.2	0.982	bd
4	200528R2_4	200	1.19	NO	34.71	1.001	2.00e6	1.04e6	207	3.3	0.965	bb
5	200528R2_5	1500	1.19	NO	34.72	1.001	1.72e7	1.18e6	1560	4.1	0.972	bb
6	200528R2_6	50.0	1.25	NO	34.72	1.000	3.88e5	8.00e5	51.9	3.9	0.971	bb

**Compound name: 1,2,3,7,8,9-HxCDF**

Response Factor: 0.870707  
 RRF SD: 0.0533625, Relative SD: 6.12863  
 Response type: Internal Std ( Ref 31 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.19	NO	35.61	1.001	7.48e3	7.73e5	1.11	-11.0	0.775	bb
2	200528R2_2	2.50	1.12	NO	35.61	1.000	1.48e4	7.04e5	2.42	-3.1	0.844	bb
3	200528R2_3	10.0	1.24	NO	35.62	1.000	6.49e4	7.27e5	10.3	2.5	0.892	bd
4	200528R2_4	200	1.20	NO	35.62	1.001	1.60e6	8.84e5	208	3.9	0.904	bb
5	200528R2_5	1500	1.20	NO	35.63	1.000	1.40e7	1.02e6	1580	5.6	0.919	bb
6	200528R2_6	50.0	1.22	NO	35.63	1.000	2.98e5	6.70e5	51.1	2.2	0.890	bb

**Compound name: 1,2,3,4,6,7,8-HpCDF**

Response Factor: 0.873391  
 RRF SD: 0.0600077, Relative SD: 6.87065  
 Response type: Internal Std ( Ref 32 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.03	NO	37.37	1.000	6.77e3	7.13e5	1.09	-13.1	0.759	bb
2	200528R2_2	2.50	0.94	NO	37.40	1.001	1.40e4	6.49e5	2.48	-0.9	0.866	bb

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**Compound name: 1,2,3,4,6,7,8-HpCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.00	NO	37.40	1.001	5.72e4	6.48e5	10.1	1.0	0.883	bd
4	200528R2_4	200	0.99	NO	37.39	1.000	1.43e6	7.67e5	213	6.5	0.930	bb
5	200528R2_5	1500	1.00	NO	37.40	1.000	1.28e7	9.39e5	1560	3.7	0.906	bb
6	200528R2_6	50.0	0.98	NO	37.41	1.001	2.64e5	5.89e5	51.4	2.7	0.897	bb

**Compound name: 1,2,3,4,7,8,9-HpCDF**

Response Factor: 1.01285

RRF SD: 0.106215, Relative SD: 10.4867

Response type: Internal Std ( Ref 33 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	39.33	1.001	5.26e3	5.09e5	1.02	-18.4	0.827	bb
2	200528R2_2	2.50	0.98	NO	39.33	1.000	1.03e4	4.36e5	2.33	-6.7	0.945	bb
3	200528R2_3	10.0	1.01	NO	39.34	1.000	4.43e4	4.19e5	10.4	4.3	1.06	MM
4	200528R2_4	200	0.98	NO	39.33	1.000	1.13e6	5.18e5	214	7.2	1.09	bb
5	200528R2_5	1500	1.00	NO	39.34	1.000	1.05e7	6.39e5	1620	8.2	1.10	bb
6	200528R2_6	50.0	0.98	NO	39.34	1.000	2.00e5	3.75e5	52.7	5.4	1.07	bb

**Compound name: OCDF**

Response Factor: 0.806476

RRF SD: 0.0306481, Relative SD: 3.80025

Response type: Internal Std ( Ref 34 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.87	NO	41.96	1.000	1.27e4	1.35e6	2.33	-6.6	0.753	bb
2	200528R2_2	5.00	0.84	NO	41.96	1.000	2.40e4	1.22e6	4.89	-2.2	0.789	bb
3	200528R2_3	20.0	0.86	NO	41.96	1.000	9.80e4	1.18e6	20.6	3.0	0.831	bb
4	200528R2_4	400	0.87	NO	41.96	1.000	2.54e6	1.57e6	402	0.5	0.810	bb
5	200528R2_5	3000	0.88	NO	41.98	1.000	2.39e7	1.92e6	3090	3.1	0.831	bb
6	200528R2_6	100	0.85	NO	41.97	1.000	4.44e5	1.08e6	102	2.3	0.825	bb



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**Compound name: 13C-2,3,7,8-TCDD**

Response Factor: 1.15633

RRF SD: 0.0999567, Relative SD: 8.64433

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	26.54	1.026	1.43e6	1.11e6	111	11.2	1.29	bb
2	200528R2_2	100	0.79	NO	26.54	1.025	1.29e6	1.24e6	89.8	-10.2	1.04	bb
3	200528R2_3	100	0.79	NO	26.54	1.025	1.31e6	1.26e6	89.8	-10.2	1.04	bb
4	200528R2_4	100	0.79	NO	26.54	1.025	1.50e6	1.26e6	103	2.8	1.19	bb
5	200528R2_5	100	0.78	NO	26.56	1.025	1.52e6	1.24e6	106	5.5	1.22	bb
6	200528R2_6	100	0.79	NO	26.56	1.025	1.16e6	9.95e5	101	0.8	1.17	bb

**Compound name: 13C-1,2,3,7,8-PeCDD**

Response Factor: 0.848975

RRF SD: 0.0899186, Relative SD: 10.5914

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.64	NO	31.48	1.216	1.00e6	1.11e6	107	6.6	0.905	bb
2	200528R2_2	100	0.63	NO	31.50	1.216	9.36e5	1.24e6	88.7	-11.3	0.753	bb
3	200528R2_3	100	0.63	NO	31.50	1.216	9.29e5	1.26e6	86.8	-13.2	0.737	bb
4	200528R2_4	100	0.64	NO	31.50	1.216	1.11e6	1.26e6	103	3.3	0.877	bb
5	200528R2_5	100	0.64	NO	31.50	1.215	1.21e6	1.24e6	114	14.3	0.970	bb
6	200528R2_6	100	0.64	NO	31.50	1.215	8.48e5	9.95e5	100	0.3	0.852	bb

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

Response Factor: 0.778953

RRF SD: 0.096377, Relative SD: 12.3726

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.85	1.014	6.95e5	8.40e5	106	6.2	0.827	bd
2	200528R2_2	100	1.28	NO	34.87	1.014	6.46e5	9.66e5	85.9	-14.1	0.669	bd

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	1.27	NO	34.87	1.014	6.61e5	9.75e5	87.0	-13.0	0.678	bd
4	200528R2_4	100	1.28	NO	34.86	1.014	7.89e5	9.81e5	103	3.4	0.805	bd
5	200528R2_5	100	1.28	NO	34.87	1.014	9.34e5	1.01e6	119	18.6	0.924	bd
6	200528R2_6	100	1.27	NO	34.88	1.014	6.04e5	7.84e5	98.9	-1.1	0.770	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDD**

Response Factor: 1.01669

RRF SD: 0.116266, Relative SD: 11.4358

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.95	1.017	9.27e5	8.40e5	108	8.5	1.10	db
2	200528R2_2	100	1.27	NO	34.96	1.017	8.61e5	9.66e5	87.7	-12.3	0.891	db
3	200528R2_3	100	1.26	NO	34.97	1.017	8.39e5	9.75e5	84.7	-15.3	0.861	db
4	200528R2_4	100	1.25	NO	34.96	1.017	1.03e6	9.81e5	104	3.5	1.05	db
5	200528R2_5	100	1.27	NO	34.97	1.017	1.17e6	1.01e6	113	13.4	1.15	db
6	200528R2_6	100	1.23	NO	34.97	1.017	8.15e5	7.84e5	102	2.3	1.04	db

**Compound name: 13C-1,2,3,7,8,9-HxCDD**

Response Factor: 0.902653

RRF SD: 0.11238, Relative SD: 12.45

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.23	NO	35.24	1.025	8.33e5	8.40e5	110	9.8	0.991	bb
2	200528R2_2	100	1.26	NO	35.25	1.025	7.48e5	9.66e5	85.8	-14.2	0.774	bb
3	200528R2_3	100	1.28	NO	35.25	1.025	7.53e5	9.75e5	85.6	-14.4	0.773	bd
4	200528R2_4	100	1.23	NO	35.25	1.025	9.12e5	9.81e5	103	3.1	0.930	MM
5	200528R2_5	100	1.26	NO	35.26	1.025	1.06e6	1.01e6	116	16.1	1.05	bb
6	200528R2_6	100	1.18	NO	35.26	1.025	7.05e5	7.84e5	99.6	-0.4	0.899	bb



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

Response Factor: 0.689179  
 RRF SD: 0.0899136, Relative SD: 13.0465  
 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.06	NO	38.77	1.128	6.48e5	8.40e5	112	11.9	0.771	MM
2	200528R2_2	100	1.04	NO	38.78	1.128	6.01e5	9.66e5	90.2	-9.8	0.622	bd
3	200528R2_3	100	1.12	NO	38.79	1.128	5.57e5	9.75e5	83.0	-17.0	0.572	bd
4	200528R2_4	100	1.04	NO	38.78	1.128	6.86e5	9.81e5	102	1.6	0.700	MM
5	200528R2_5	100	1.03	NO	38.80	1.128	8.18e5	1.01e6	117	17.4	0.809	bb
6	200528R2_6	100	1.04	NO	38.80	1.128	5.18e5	7.84e5	95.9	-4.1	0.661	bd

**Compound name: 13C-OCDD**

Response Factor: 0.652099  
 RRF SD: 0.111511, Relative SD: 17.1002  
 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.89	NO	41.75	1.215	1.18e6	8.40e5	216	7.8	0.703	MM
2	200528R2_2	200	0.89	NO	41.76	1.215	1.05e6	9.66e5	167	-16.3	0.546	MM
3	200528R2_3	200	0.91	NO	41.76	1.214	1.03e6	9.75e5	162	-18.9	0.529	bd
4	200528R2_4	200	0.90	NO	41.76	1.215	1.35e6	9.81e5	211	5.7	0.689	bd
5	200528R2_5	200	0.93	NO	41.78	1.215	1.67e6	1.01e6	254	26.9	0.827	bd
6	200528R2_6	200	0.88	NO	41.77	1.215	9.71e5	7.84e5	190	-5.1	0.619	bd

**Compound name: 13C-2,3,7,8-TCDF**

Response Factor: 1.05898  
 RRF SD: 0.0854755, Relative SD: 8.07146  
 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )  
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.76	NO	25.65	0.991	1.95e6	1.65e6	112	12.1	1.19	bb
2	200528R2_2	100	0.77	NO	25.66	0.991	1.78e6	1.83e6	92.1	-7.9	0.975	bb

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**Compound name: 13C-2,3,7,8-TCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.78	NO	25.66	0.991	1.80e6	1.89e6	90.1	-9.9	0.955	bb
4	200528R2_4	100	0.78	NO	25.66	0.991	2.04e6	1.91e6	101	1.0	1.07	bb
5	200528R2_5	100	0.78	NO	25.67	0.991	2.04e6	1.85e6	104	4.2	1.10	bb
6	200528R2_6	100	0.77	NO	25.68	0.991	1.59e6	1.49e6	101	0.5	1.06	bb

**Compound name: 13C-1,2,3,7,8-PeCDF**

Response Factor: 0.837982

RRF SD: 0.0870192, Relative SD: 10.3844

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.59	NO	30.20	1.167	1.50e6	1.65e6	109	9.0	0.913	bb
2	200528R2_2	100	1.59	NO	30.22	1.167	1.37e6	1.83e6	89.3	-10.7	0.748	bb
3	200528R2_3	100	1.59	NO	30.22	1.167	1.38e6	1.89e6	86.9	-13.1	0.728	bb
4	200528R2_4	100	1.61	NO	30.22	1.167	1.63e6	1.91e6	102	1.9	0.854	bb
5	200528R2_5	100	1.63	NO	30.22	1.166	1.75e6	1.85e6	113	12.9	0.946	bb
6	200528R2_6	100	1.60	NO	30.23	1.166	1.25e6	1.49e6	100	0.0	0.838	bb

**Compound name: 13C-2,3,4,7,8-PeCDF**

Response Factor: 0.816557

RRF SD: 0.0702322, Relative SD: 8.60101

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.60	NO	31.18	1.204	1.42e6	1.65e6	106	5.9	0.865	db
2	200528R2_2	100	1.57	NO	31.19	1.204	1.35e6	1.83e6	90.7	-9.3	0.741	db
3	200528R2_3	100	1.61	NO	31.19	1.204	1.38e6	1.89e6	89.4	-10.6	0.730	db
4	200528R2_4	100	1.61	NO	31.19	1.204	1.57e6	1.91e6	101	1.0	0.825	db
5	200528R2_5	100	1.60	NO	31.19	1.204	1.69e6	1.85e6	112	11.5	0.911	bb
6	200528R2_6	100	1.59	NO	31.21	1.204	1.24e6	1.49e6	101	1.4	0.828	db

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

Response Factor: 1.00752

RRF SD: 0.115021, Relative SD: 11.4162

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	33.97	0.988	9.42e5	8.40e5	111	11.3	1.12	bd
2	200528R2_2	100	0.50	NO	33.98	0.988	8.49e5	9.66e5	87.2	-12.8	0.878	bd
3	200528R2_3	100	0.50	NO	33.98	0.988	8.47e5	9.75e5	86.2	-13.8	0.869	bd
4	200528R2_4	100	0.50	NO	33.98	0.988	1.02e6	9.81e5	103	3.0	1.04	bd
5	200528R2_5	100	0.50	NO	33.99	0.988	1.15e6	1.01e6	113	12.7	1.14	bd
6	200528R2_6	100	0.50	NO	33.99	0.988	7.87e5	7.84e5	99.6	-0.4	1.00	bd

**Compound name: 13C-1,2,3,6,7,8-HxCDF**

Response Factor: 1.16702

RRF SD: 0.127304, Relative SD: 10.9085

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.09	0.992	1.07e6	8.40e5	110	9.5	1.28	db
2	200528R2_2	100	0.51	NO	34.11	0.992	9.70e5	9.66e5	86.1	-13.9	1.00	db
3	200528R2_3	100	0.51	NO	34.11	0.992	1.01e6	9.75e5	88.5	-11.5	1.03	db
4	200528R2_4	100	0.51	NO	34.10	0.992	1.18e6	9.81e5	103	3.1	1.20	db
5	200528R2_5	100	0.51	NO	34.11	0.992	1.33e6	1.01e6	113	13.0	1.32	db
6	200528R2_6	100	0.50	NO	34.12	0.992	9.14e5	7.84e5	99.8	-0.2	1.17	db

**Compound name: 13C-2,3,4,6,7,8-HxCDF**

Response Factor: 1.02186

RRF SD: 0.110658, Relative SD: 10.829

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	34.68	1.009	9.22e5	8.40e5	107	7.4	1.10	bb
2	200528R2_2	100	0.50	NO	34.69	1.009	8.66e5	9.66e5	87.7	-12.3	0.896	bb



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**Compound name: 13C-2,3,4,6,7,8-HxCDF**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.51	NO	34.70	1.009	8.69e5	9.75e5	87.2	-12.8	0.891	bb
4	200528R2_4	100	0.51	NO	34.69	1.009	1.04e6	9.81e5	104	3.6	1.06	bb
5	200528R2_5	100	0.50	NO	34.70	1.009	1.18e6	1.01e6	114	14.3	1.17	bb
6	200528R2_6	100	0.51	NO	34.71	1.009	8.00e5	7.84e5	99.8	-0.2	1.02	bb

**Compound name: 13C-1,2,3,7,8,9-HxCDF**

Response Factor: 0.859541

RRF SD: 0.107178, Relative SD: 12.4692

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	35.59	1.036	7.73e5	8.40e5	107	7.0	0.919	MM
2	200528R2_2	100	0.50	NO	35.61	1.036	7.04e5	9.66e5	84.8	-15.2	0.729	MM
3	200528R2_3	100	0.50	NO	35.61	1.036	7.27e5	9.75e5	86.8	-13.2	0.746	MM
4	200528R2_4	100	0.49	NO	35.60	1.036	8.84e5	9.81e5	105	4.9	0.902	bb
5	200528R2_5	100	0.51	NO	35.62	1.036	1.02e6	1.01e6	117	17.3	1.01	bb
6	200528R2_6	100	0.51	NO	35.63	1.036	6.70e5	7.84e5	99.3	-0.7	0.854	bd

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

Response Factor: 0.774499

RRF SD: 0.102271, Relative SD: 13.2048

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.44	NO	37.37	1.087	7.13e5	8.40e5	110	9.6	0.849	bd
2	200528R2_2	100	0.42	NO	37.38	1.087	6.49e5	9.66e5	86.7	-13.3	0.672	bb
3	200528R2_3	100	0.44	NO	37.38	1.087	6.48e5	9.75e5	85.9	-14.1	0.665	bd
4	200528R2_4	100	0.44	NO	37.38	1.087	7.67e5	9.81e5	101	0.9	0.782	bb
5	200528R2_5	100	0.44	NO	37.39	1.087	9.39e5	1.01e6	120	19.9	0.928	bd
6	200528R2_6	100	0.43	NO	37.39	1.087	5.89e5	7.84e5	97.0	-3.0	0.751	bb

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**Compound name: 13C-1,2,3,4,7,8,9-HpCDF**

Response Factor: 0.520991

RRF SD: 0.083066, Relative SD: 15.9439

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.43	NO	39.31	1.144	5.09e5	8.40e5	116	16.3	0.606	MM
2	200528R2_2	100	0.42	NO	39.32	1.144	4.36e5	9.66e5	86.7	-13.3	0.452	bb
3	200528R2_3	100	0.42	NO	39.33	1.144	4.19e5	9.75e5	82.5	-17.5	0.430	MM
4	200528R2_4	100	0.42	NO	39.32	1.144	5.18e5	9.81e5	101	1.4	0.529	MM
5	200528R2_5	100	0.44	NO	39.33	1.144	6.39e5	1.01e6	121	21.3	0.632	bb
6	200528R2_6	100	0.43	NO	39.34	1.144	3.75e5	7.84e5	91.8	-8.2	0.478	bd

**Compound name: 13C-OCDF**

Response Factor: 0.745653

RRF SD: 0.129429, Relative SD: 17.3579

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.87	NO	41.94	1.220	1.35e6	8.40e5	215	7.6	0.803	bb
2	200528R2_2	200	0.83	NO	41.95	1.220	1.22e6	9.66e5	169	-15.4	0.631	bb
3	200528R2_3	200	0.90	NO	41.96	1.220	1.18e6	9.75e5	162	-18.8	0.605	bd
4	200528R2_4	200	0.88	NO	41.95	1.220	1.57e6	9.81e5	215	7.3	0.800	MM
5	200528R2_5	200	0.88	NO	41.97	1.220	1.92e6	1.01e6	254	27.2	0.949	bb
6	200528R2_6	200	0.90	NO	41.96	1.220	1.08e6	7.84e5	184	-7.9	0.687	MM

**Compound name: 37Cl-2,3,7,8-TCDD**

Response Factor: 1.03685

RRF SD: 0.126311, Relative SD: 12.1822

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250			26.57	1.027	2.71e3	1.11e6	0.235	-5.9	0.976	bb
2	200528R2_2	0.500			26.56	1.025	5.67e3	1.24e6	0.440	-11.9	0.913	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 37Cl-2,3,7,8-TCDD**

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	2.00			26.57	1.026	2.30e4	1.26e6	1.76	-12.0	0.912	bd
4	200528R2_4	40.0			26.56	1.025	5.78e5	1.26e6	44.1	10.2	1.14	bb
5	200528R2_5	200			26.57	1.025	3.03e6	1.24e6	235	17.7	1.22	bb
6	200528R2_6	10.0			26.59	1.026	1.05e5	9.95e5	10.2	2.1	1.06	bb

**Compound name: 13C-1,2,3,4-TCDD**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	25.89	1.000	1.11e6	1.11e6	100	0.0	1.00	bb
2	200528R2_2	100	0.81	NO	25.90	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
3	200528R2_3	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
4	200528R2_4	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
5	200528R2_5	100	0.80	NO	25.92	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
6	200528R2_6	100	0.80	NO	25.92	1.000	9.95e5	9.95e5	100	0.0	1.00	bb

**Compound name: 13C-1,2,3,4-TCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.78	NO	24.22	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	200528R2_2	100	0.78	NO	24.22	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
3	200528R2_3	100	0.78	NO	24.22	1.000	1.89e6	1.89e6	100	0.0	1.00	bb
4	200528R2_4	100	0.79	NO	24.22	1.000	1.91e6	1.91e6	100	0.0	1.00	bb
5	200528R2_5	100	0.79	NO	24.24	1.000	1.85e6	1.85e6	100	0.0	1.00	bb
6	200528R2_6	100	0.77	NO	24.24	1.000	1.49e6	1.49e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time  
Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

**Compound name: 13C-1,2,3,4,6,9-HxCDF**

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area )

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.37	1.000	8.40e5	8.40e5	100	0.0	1.00	bb
2	200528R2_2	100	0.51	NO	34.38	1.000	9.66e5	9.66e5	100	0.0	1.00	bb
3	200528R2_3	100	0.51	NO	34.39	1.000	9.75e5	9.75e5	100	0.0	1.00	bb
4	200528R2_4	100	0.51	NO	34.38	1.000	9.81e5	9.81e5	100	0.0	1.00	bb
5	200528R2_5	100	0.51	NO	34.39	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
6	200528R2_6	100	0.50	NO	34.39	1.000	7.84e5	7.84e5	100	0.0	1.00	bb



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.59
2	2 1,2,8,9-TCDD (Last)	27.53
3	3 1,2,4,7,9-PeCDD (First)	29.32
4	4 1,2,3,8,9-PeCDD (Last)	31.89
5	5 1,2,4,6,7,9-HxCDD (First)	33.39
6	6 1,2,3,7,8,9-HxCDD (Last)	35.27
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.81
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.81
9	9 1,3,6,8-TCDF (First)	20.44
10	10 1,2,8,9-TCDF (Last)	27.68
11	11 1,3,4,6,8-PeCDF (First)	27.64
12	12 1,2,3,8,9-PeCDF (Last)	32.14
13	13 1,2,3,4,6,8-HxCDF (First)	32.83
14	14 1,2,3,7,8,9-HxCDF (Last)	35.63
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.41
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.34



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

GRB 05/29/2020

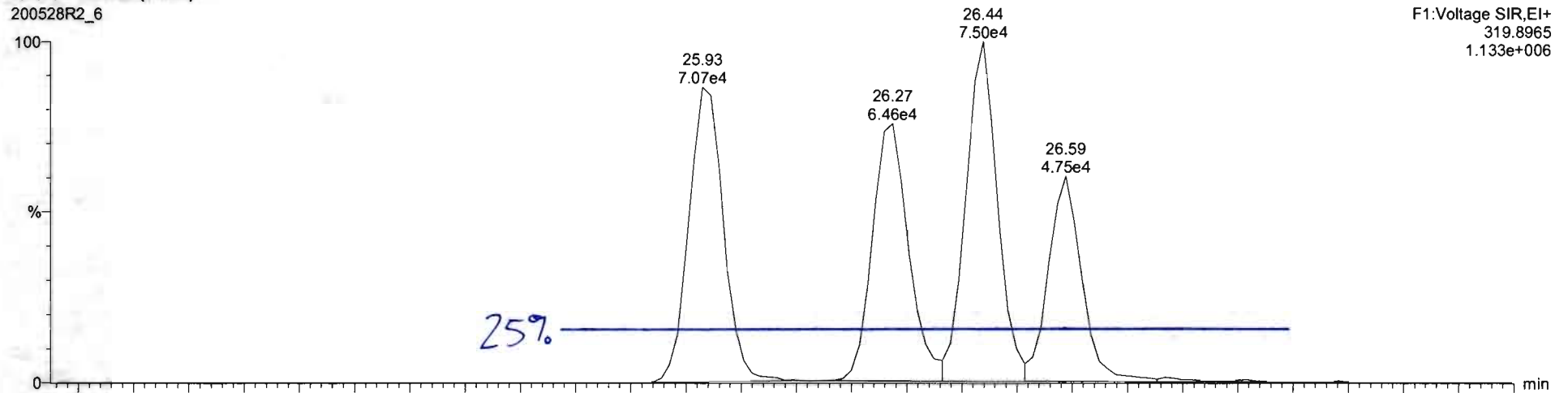
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

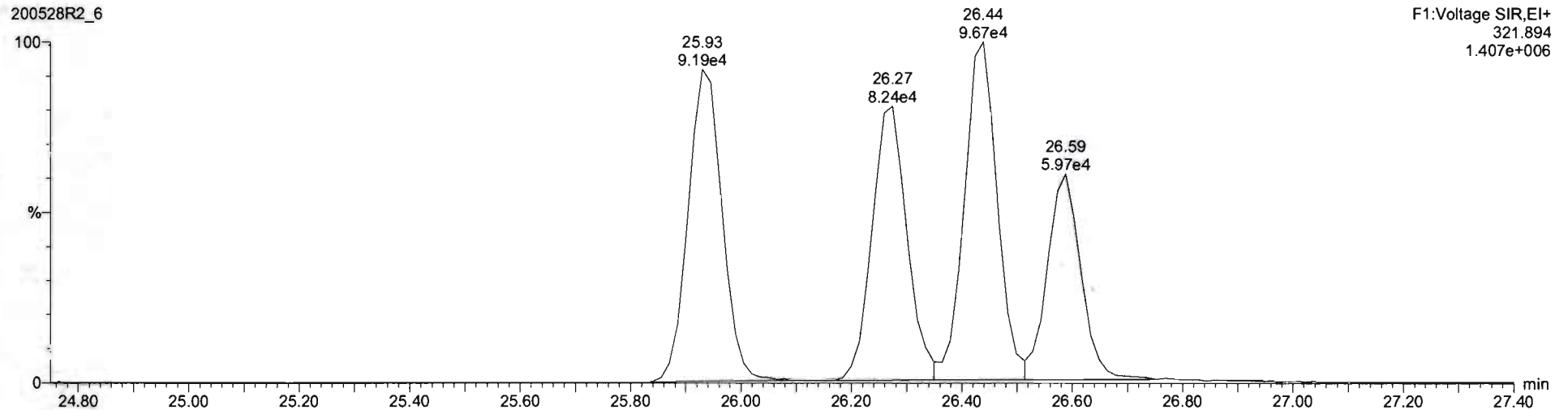
Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200528R2\_6



200528R2\_6



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, May 29, 2020 8:08:41 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 8:08:46 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

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

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200528R2_1	ST200528R2_1 1613 CS0 19L2302	28-May-20	11:53:52
2	200528R2_2	ST200528R2_2 1613 CS1 19L2303	28-May-20	12:41:31
3	200528R2_3	ST200528R2_3 1613 CS2 19L2304	28-May-20	13:28:43
4	200528R2_4	ST200528R2_4 1613 CS4 19L2306	28-May-20	14:15:50
5	200528R2_5	ST200528R2_5 1613 CS5 19L2307	28-May-20	15:02:56
6	200528R2_6	ST200528R2_6 1613 CS3 19L2305	28-May-20	15:50:32
7	200528R2_7	SOLVENT BLANK	28-May-20	16:37:46
8	200528R2_8	SS200528R2_1 1613 SSS 19L2308	28-May-20	17:24:01
9	200528R2_9	B0E0131-BS1 OPR 1	28-May-20	18:10:13
10	200528R2_10	B0E0165-BS1 OPR 1	28-May-20	18:56:26
11	200528R2_11	B0E0127-BS1 OPR 1	28-May-20	19:42:36
12	200528R2_12	B0E0180-BS1 OPR 10	28-May-20	20:28:48
13	200528R2_13	SOLVENT BLANK	28-May-20	21:15:00
14	200528R2_14	B0E0180-BLK1 Method Blank 10	28-May-20	22:01:12
15	200528R2_15	B0E0131-BLK1 Method Blank 1	28-May-20	22:47:24
16	200528R2_16	B0E0165-BLK1 Method Blank 1	28-May-20	23:33:37
17	200528R2_17	B0E0127-BLK1 Method Blank 1	29-May-20	00:19:48
18	200528R2_18	2001052-01 ZID-001 1.00002	29-May-20	01:06:00
19	200528R2_19	2001031-01 Forebay Composite (24hr) 0.95078	29-May-20	01:52:12
20	200528R2_20	2001092-01 OF-031A BiWeekly Composite D/...	29-May-20	02:38:24

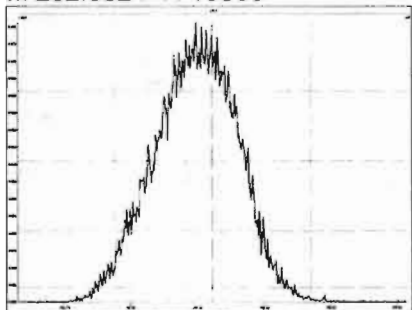
Experiment Calibration Report

MassLynx 4.1 SCN815

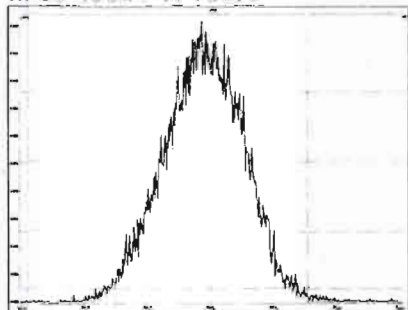
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Printed: Thursday, May 28, 2020 11:48:59 Pacific Daylight Time

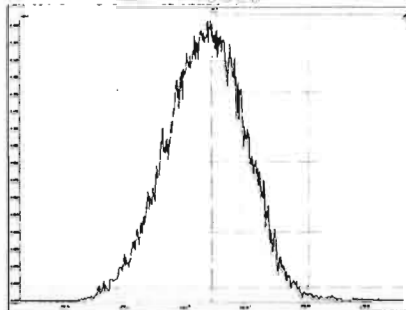
M 292.9824 R 10503



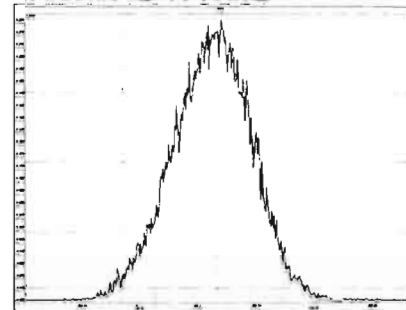
M 304.9824 R 10376



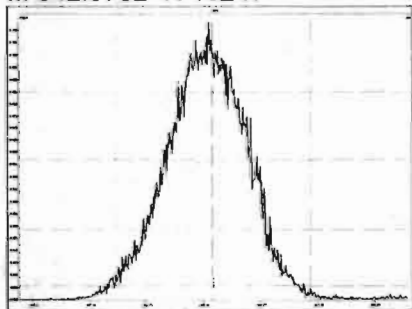
M 318.9792 R 10589



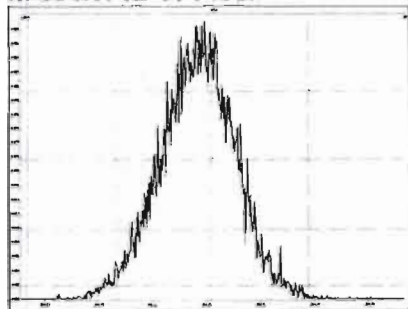
M 330.9792 R 10552



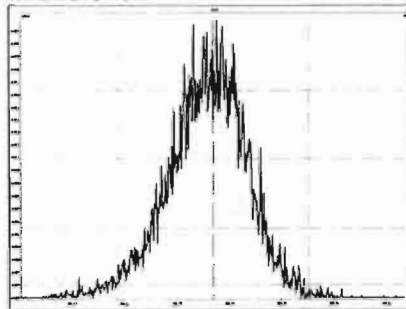
M 342.9792 R 10247



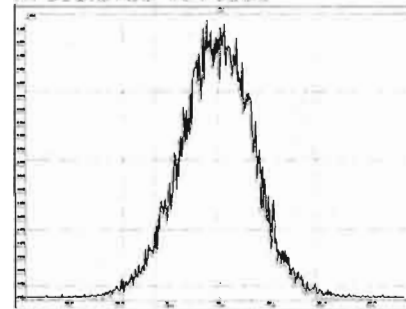
M 354.9792 R 10330



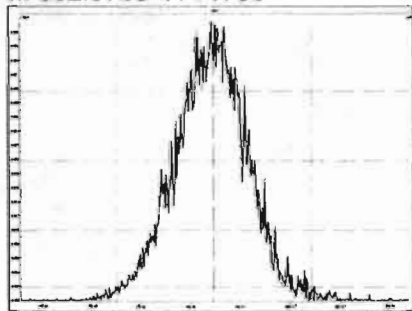
M 366.9792 R 11417



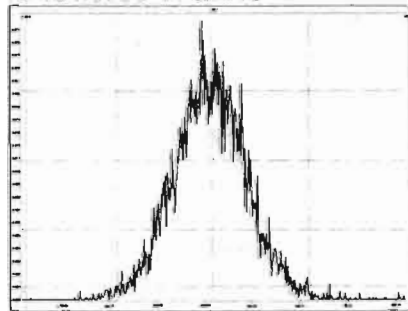
M 380.9760 R 11062



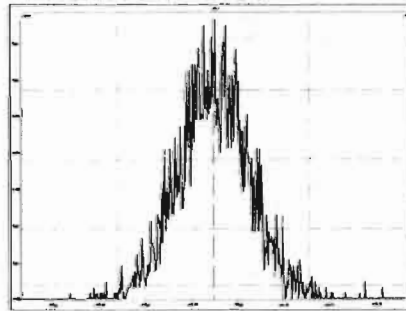
M 392.9760 R 11790



M 404.9760 R 12316



M 416.9760 R 12754



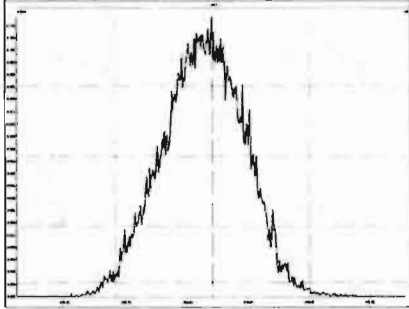
Experiment Calibration Report

MassLynx 4.1 SCN815

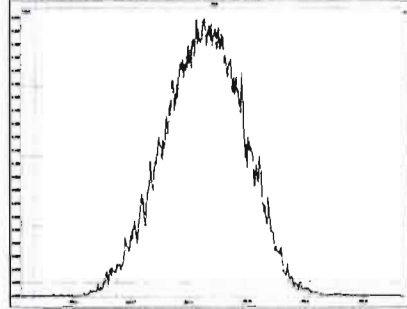
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:49:33 Pacific Daylight Time

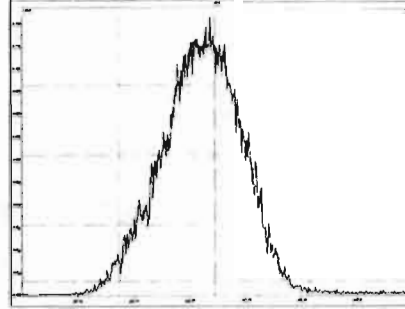
M 318.9792 R 10247



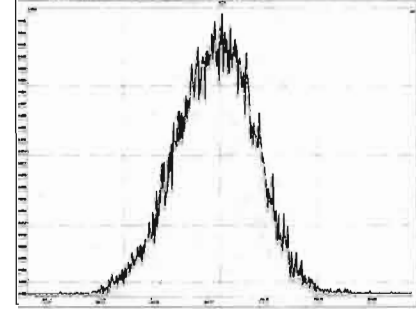
M 330.9792 R 10372



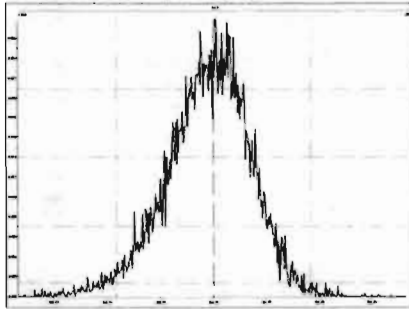
M 342.9792 R 10370



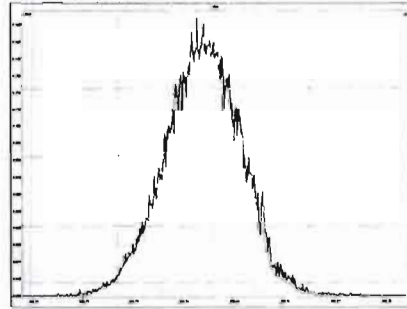
M 354.9792 R 10822



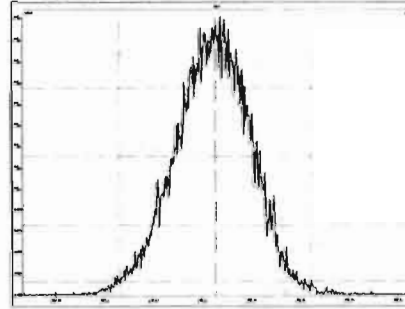
M 366.9792 R 10963



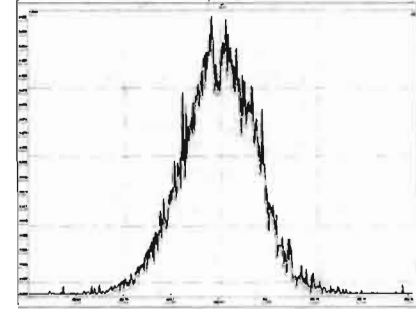
M 380.9760 R 10594



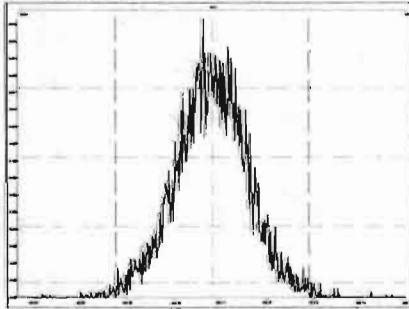
M 392.9760 R 10821



M 404.9760 R 11845



M 416.9760 R 12018



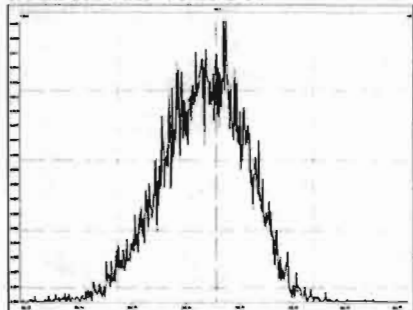
Experiment Calibration Report

MassLynx 4.1 SCN815

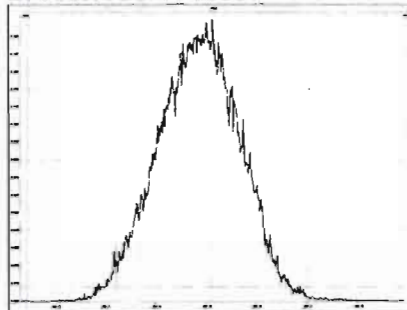
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Printed: Thursday, May 28, 2020 11:50:12 Pacific Daylight Time

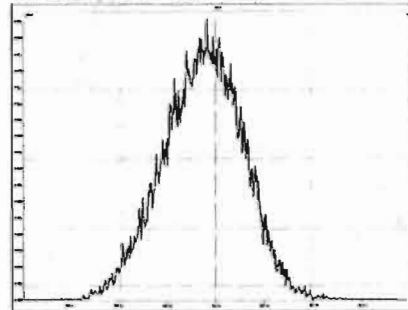
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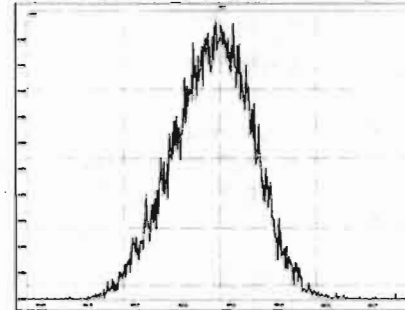
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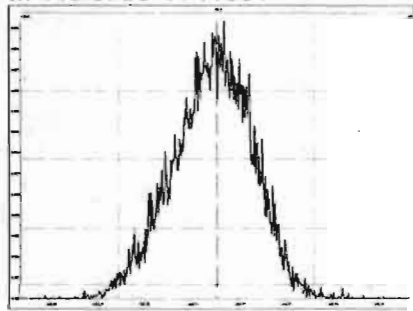
M 392.9760 R 10459



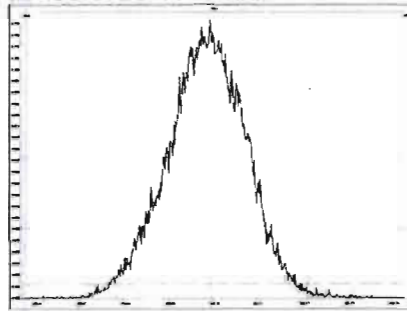
M 404.9760 R 10505



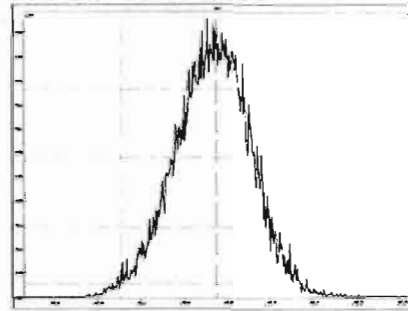
M 416.9760 R 11061



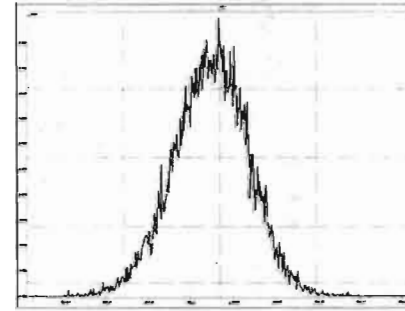
M 430.9728 R 10290



M 442.9728 R 10593



M 454.9728 R 10919





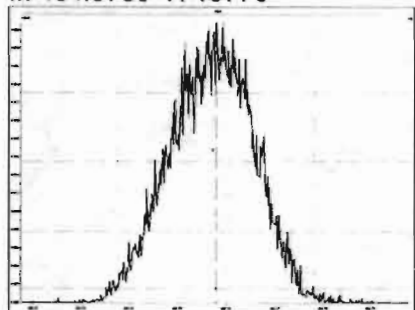
Experiment Calibration Report

MassLynx 4.1 SCN815

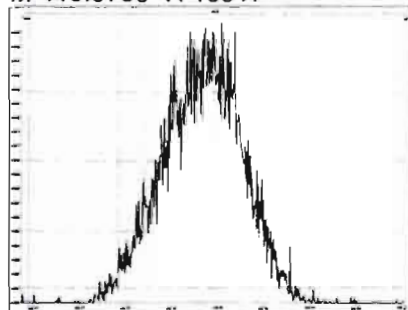
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Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time

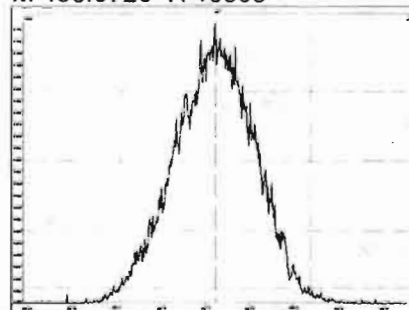
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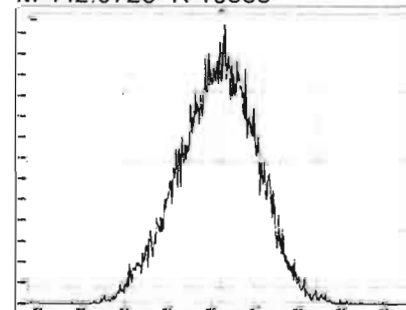
M 416.9760 R 10917



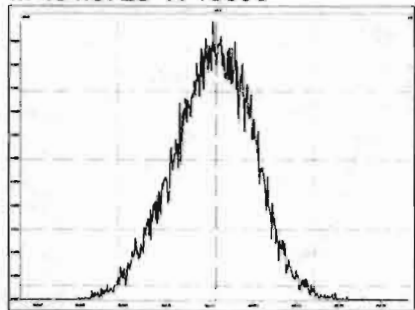
M 430.9728 R 10503



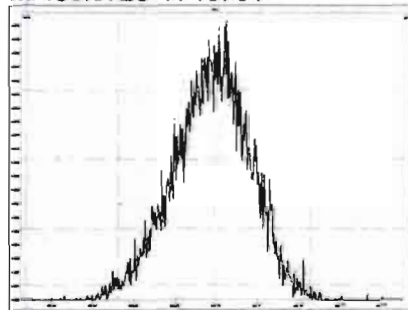
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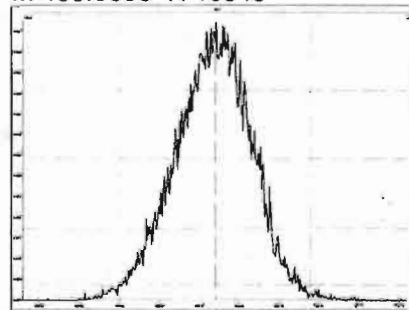
M 454.9728 R 10638



M 466.9728 R 10731



M 480.9696 R 10545



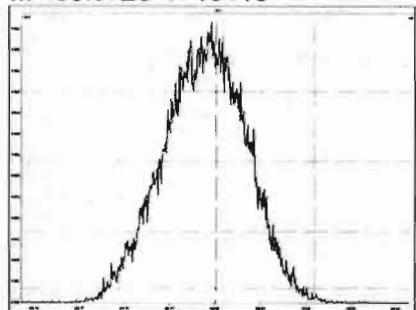
Experiment Calibration Report

MassLynx 4.1 SCN815

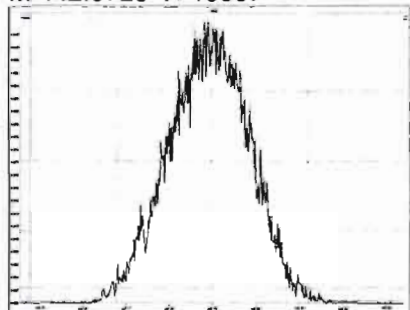
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Printed: Thursday, May 28, 2020 11:51:45 Pacific Daylight Time

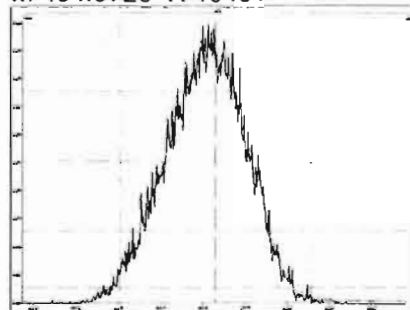
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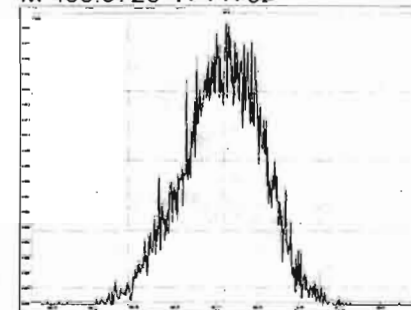
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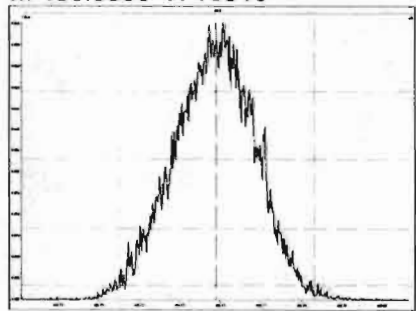
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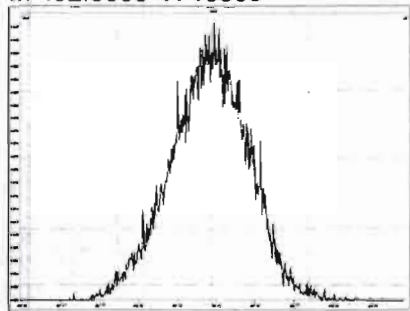
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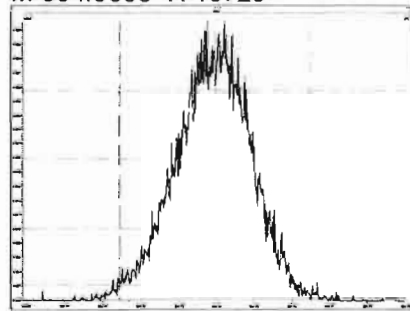
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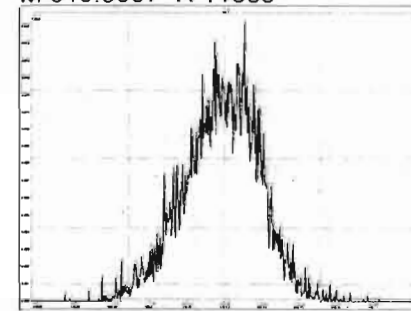
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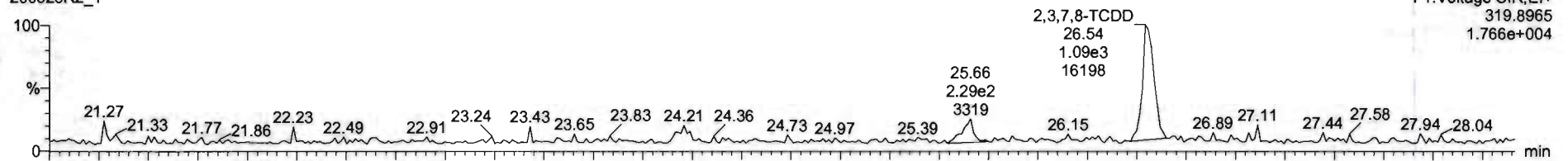
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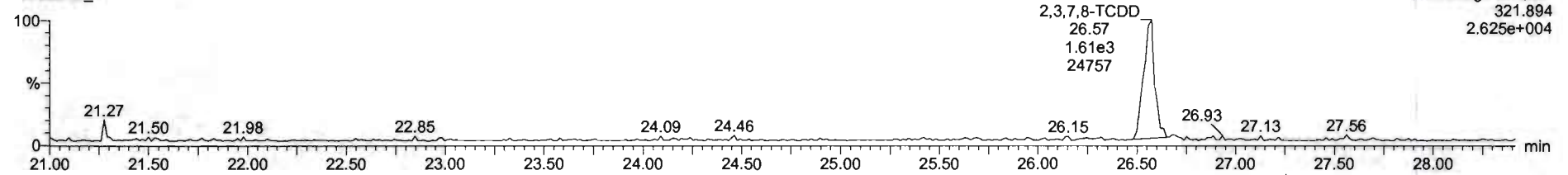
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2,3,7,8-TCDD

200528R2\_1

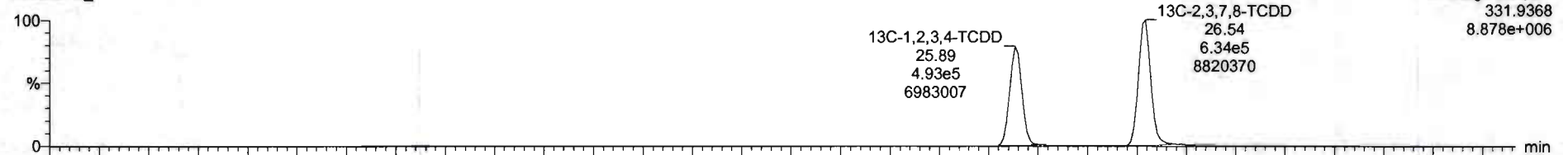


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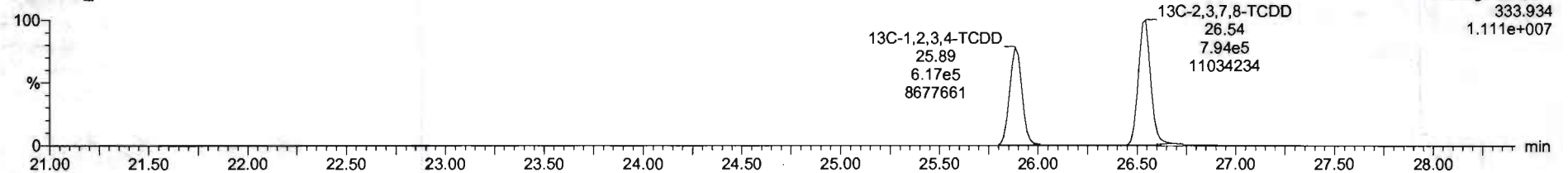


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200528R2\_1



200528R2\_1



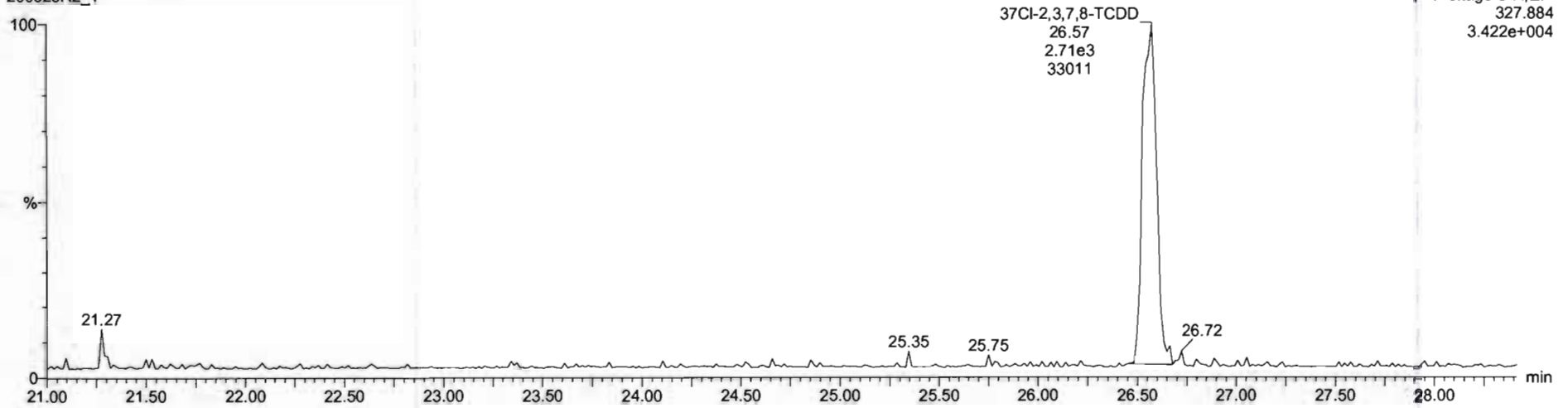


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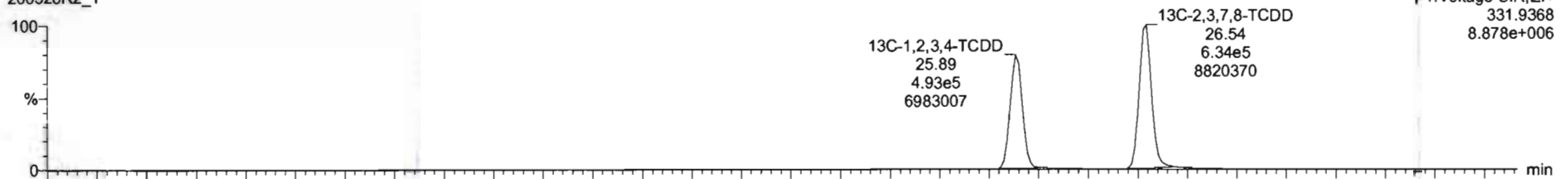
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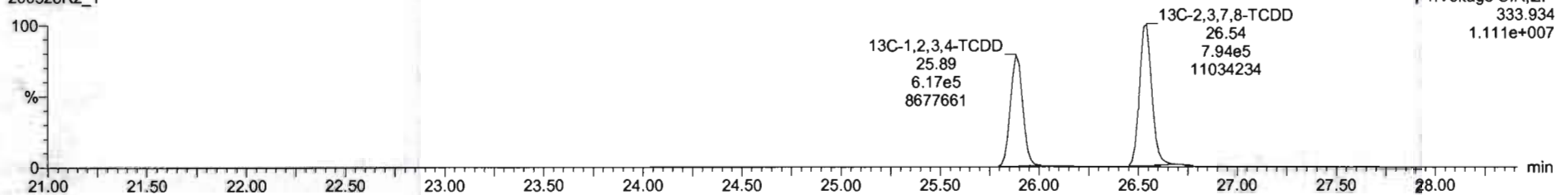
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200528R2\_1



200528R2\_1



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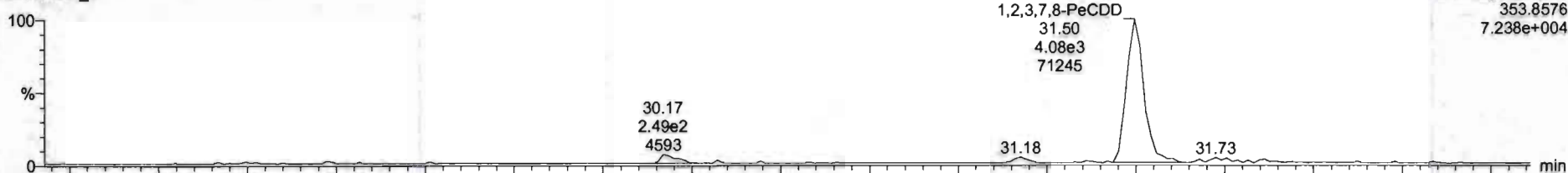
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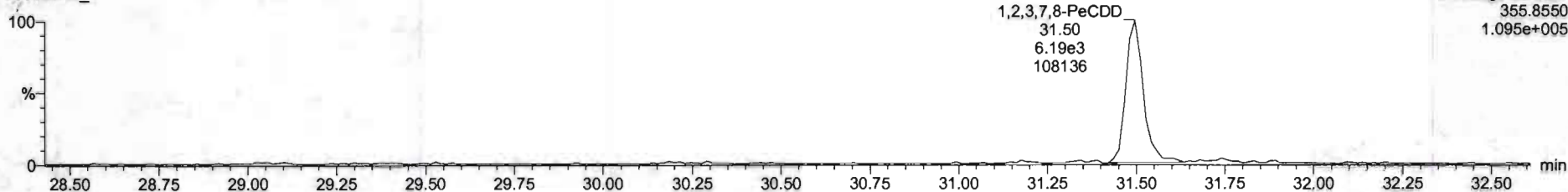
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**1,2,3,7,8-PeCDD**

200528R2\_1

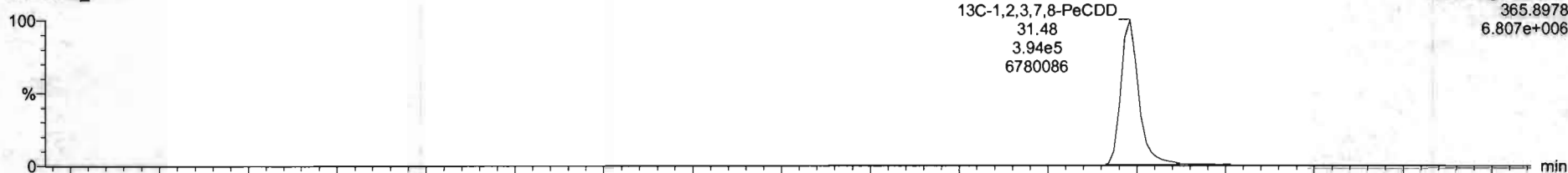


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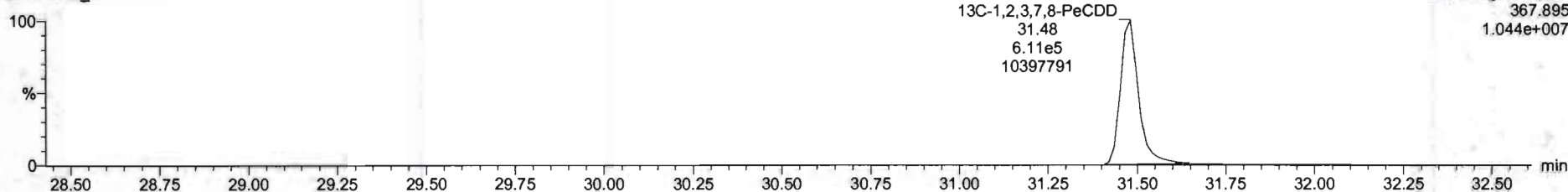


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200528R2\_1



200528R2\_1



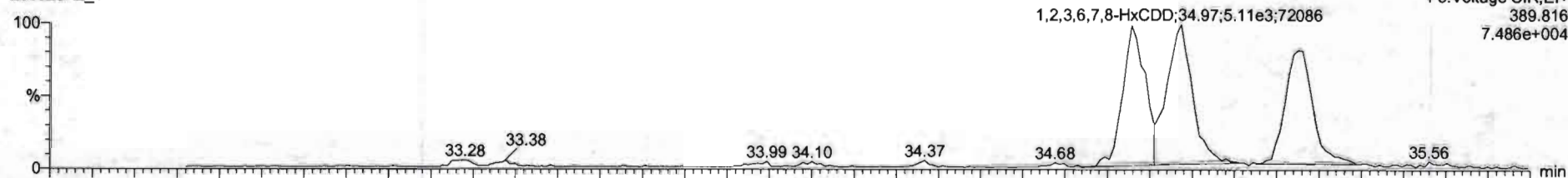
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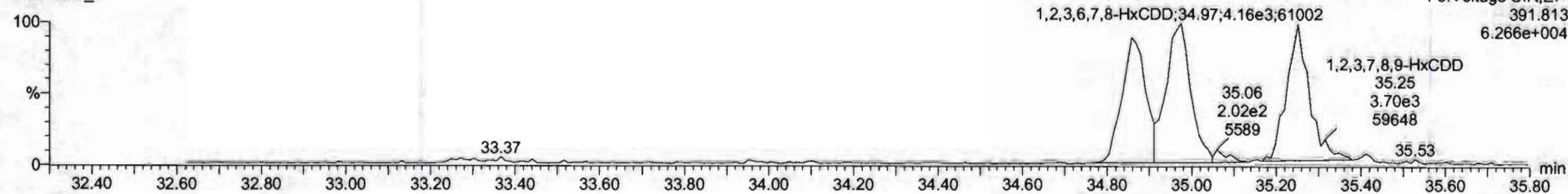
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1,2,3,4,7,8-HxCDD

200528R2\_1

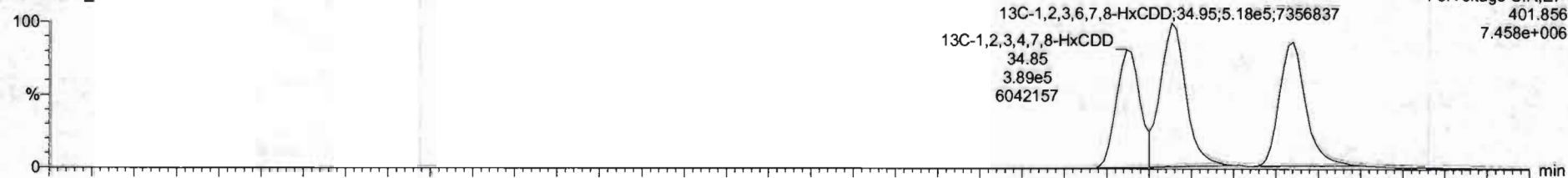


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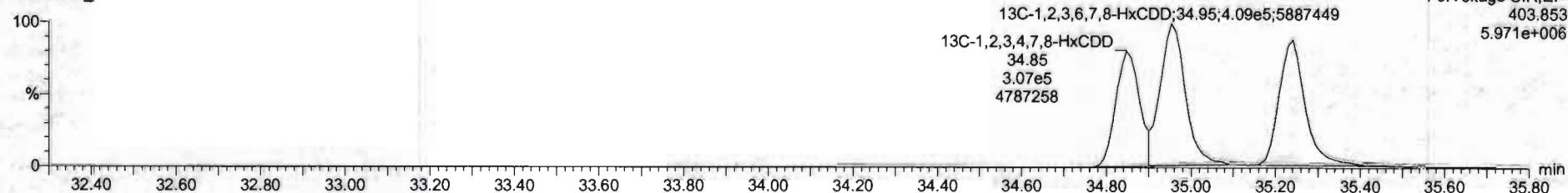


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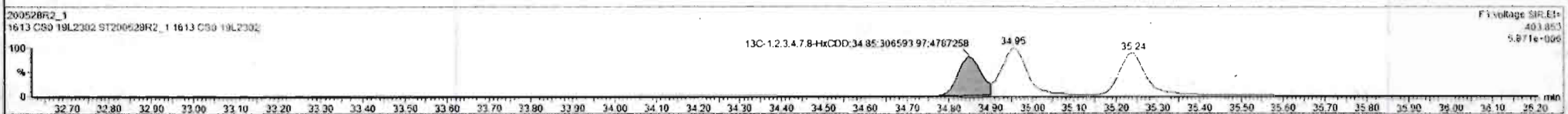
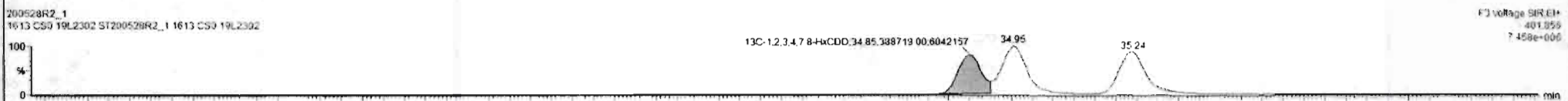
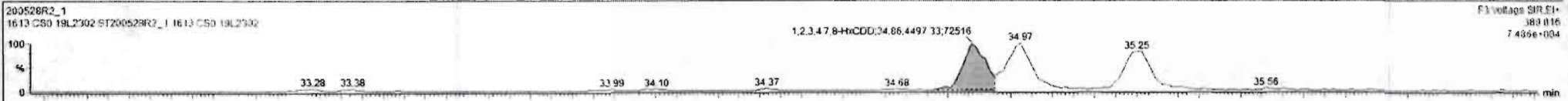
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200528R2\_1



#	Name	Resp	RA	Qty	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.78e3	0.56	NO	0.8583	1.000	26.54	1.000	0.213	35.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0428	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8539	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.23e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	39.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0369	1.09
10	1,2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8562	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8787	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	





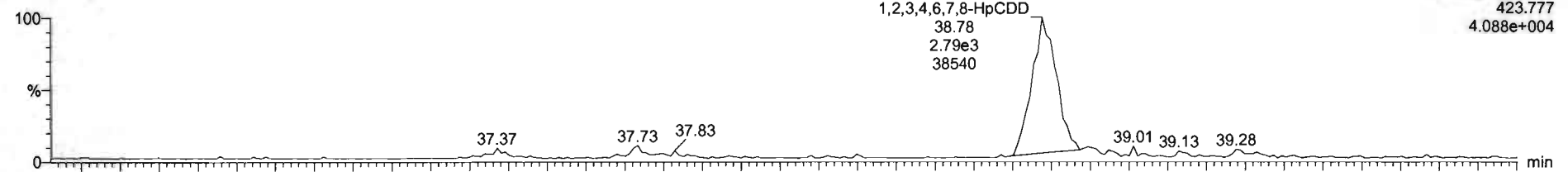
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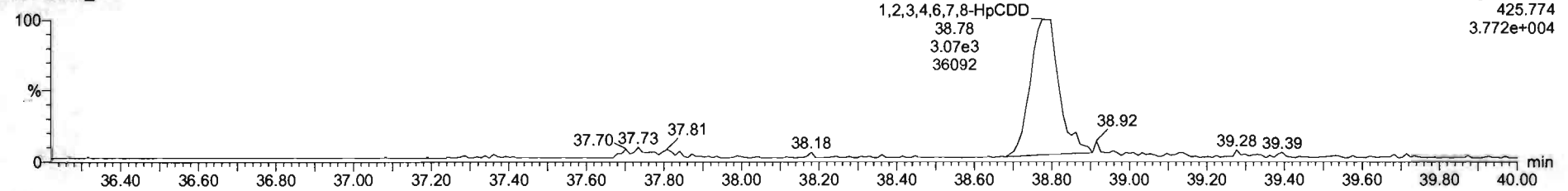
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1,2,3,4,6,7,8-HpCDD

200528R2\_1

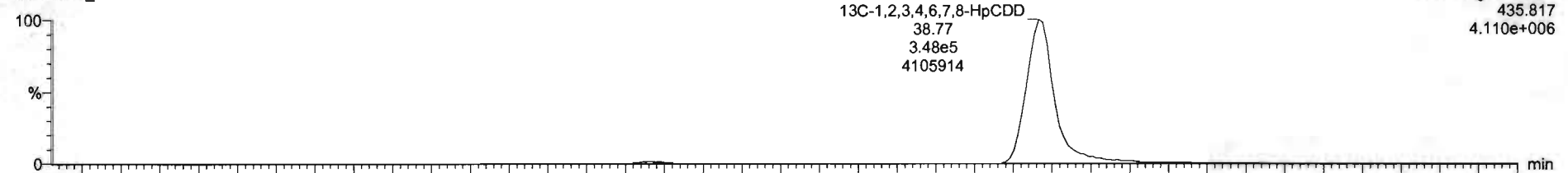


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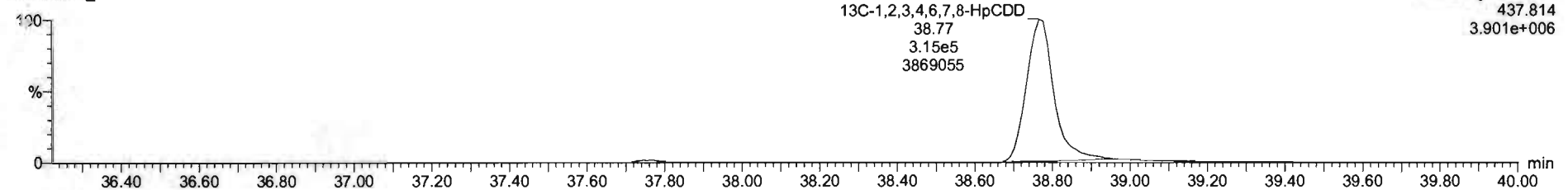


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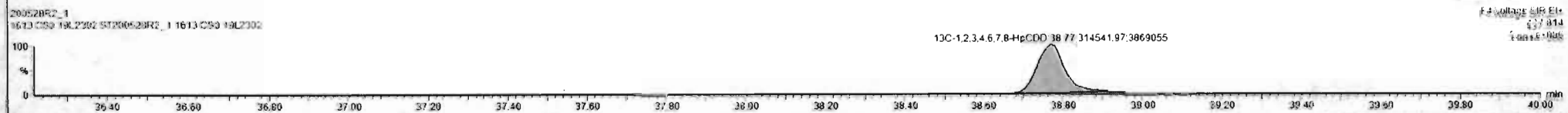
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200528R2\_1



SI	Name	Reap	RA	nty	RRF	wtdvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.58	NO	0.8583	1.000	26.54	1.000	0.212	88.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0282	1.12
3	1,2,3,4,7,8-HxCDD	5.02e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	69.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	6.14e3	1.30	NO	0.8065	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8839	1.000	36.70	1.000	1.09	87.2	0.0506	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.70	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.323	89.1	0.0142	0.222
9	1,2,3,7,8-PeCDF	1.46e4	1.51	NO	0.8925	1.000	30.20	1.000	1.09	67.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8052	1.000	34.11	1.001	1.12	88.2	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HxCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e8	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8450	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	

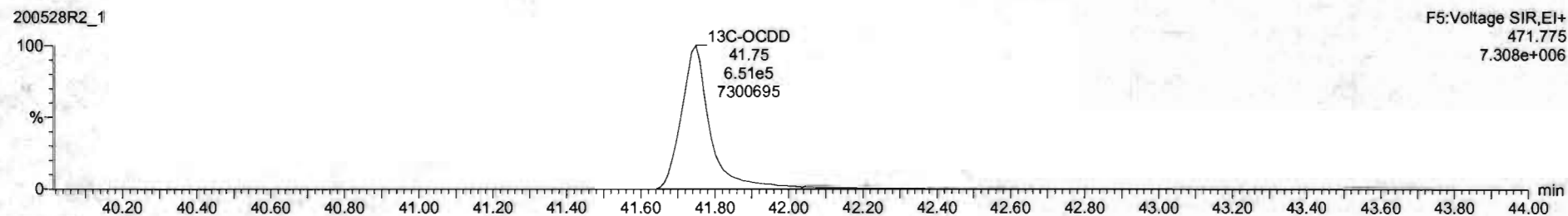
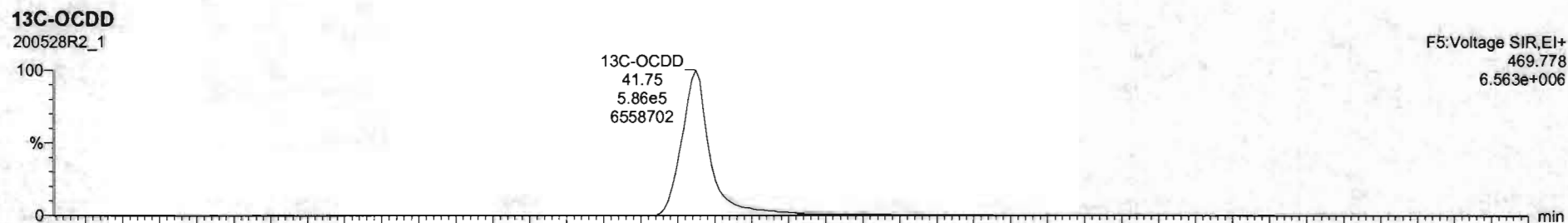
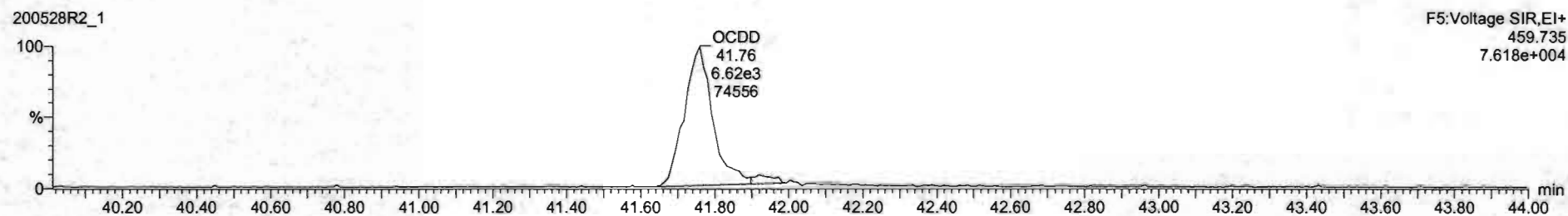
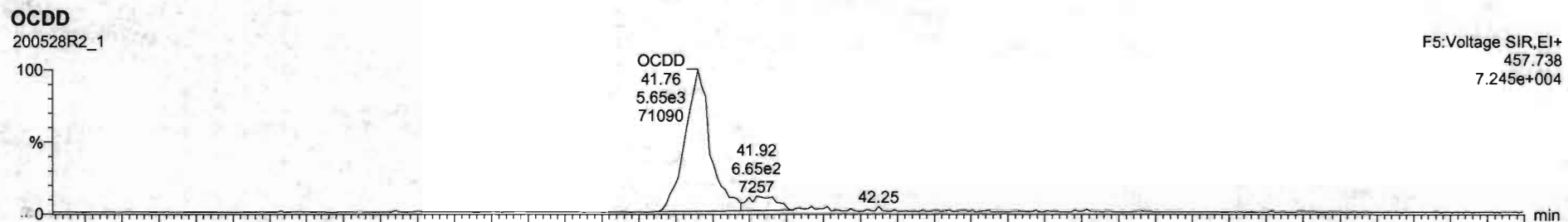


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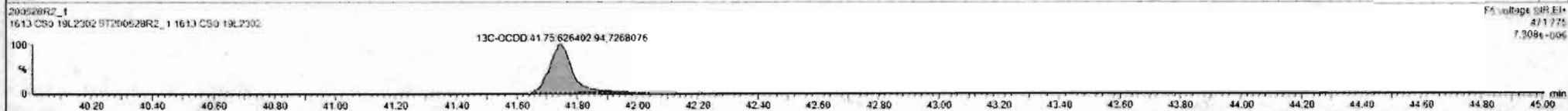
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#	Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8863	1.000	26.54	1.000	0.212	85.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	34.06	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9138	1.000	41.78	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8552	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	28.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	8.95e5	1.27	NO	0.7750	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



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200528R2\_1

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7:54 AM



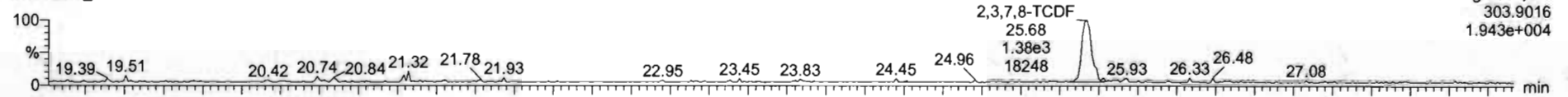
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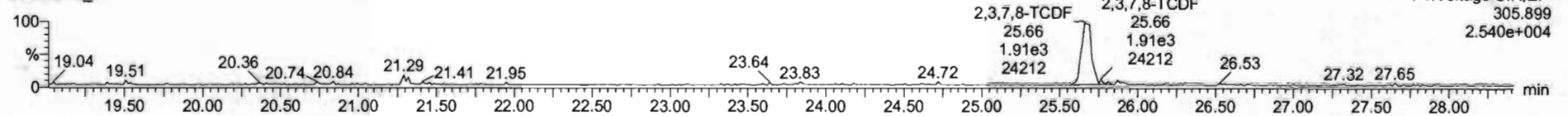
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**2,3,7,8-TCDF**

200528R2\_1

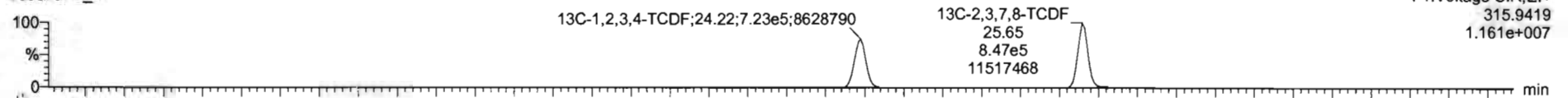


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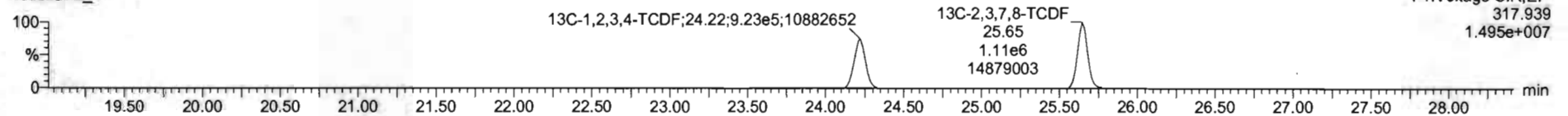


**13C-2,3,7,8-TCDF**

200528R2\_1

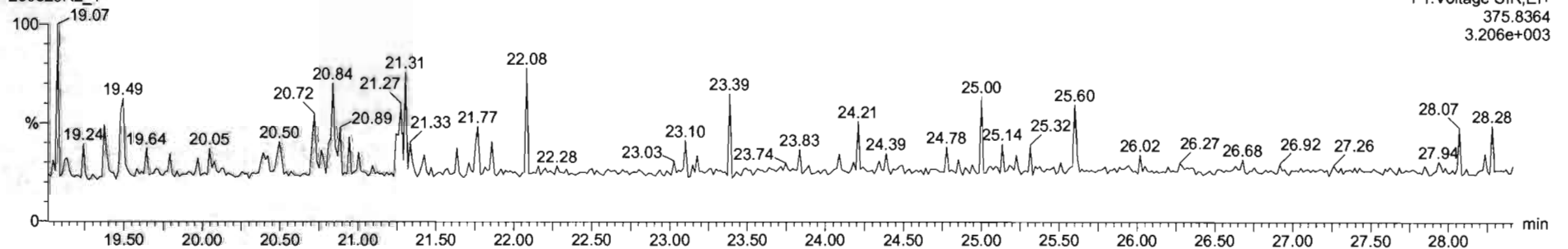


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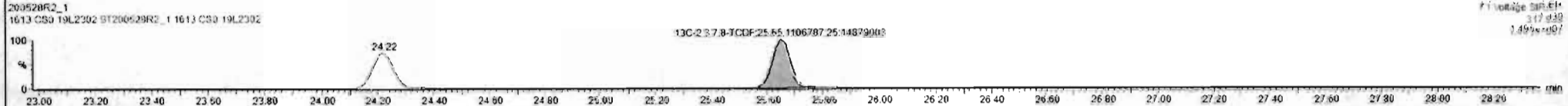
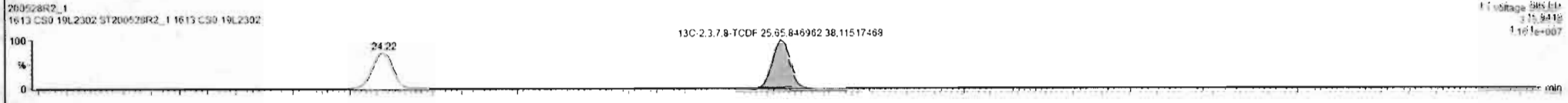
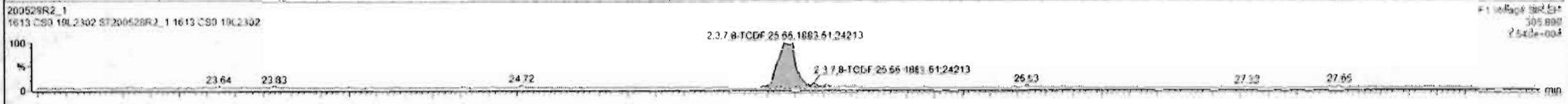
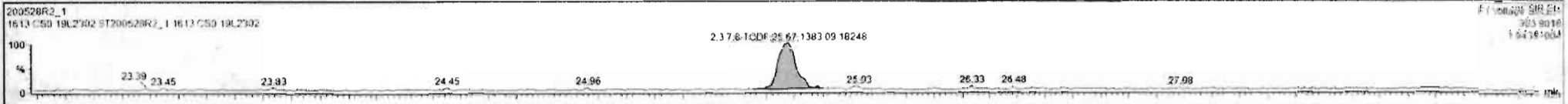


**DPE1**

200528R2\_1



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8883	1.000	26.54	1.000	0.212	95.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	21.50	1.000	1.12	90.6	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e2	1.27	NO	1.0334	1.000	34.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.13	89.7	0.0465	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0454	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0140	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	20.20	1.006	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.95e3	1.25	NO	0.8845	1.000	33.99	1.001	1.00	86.2	0.0369	1.00
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8862	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0624	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.33	1.001	1.02	61.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.000	2.23	92.4	0.0409	2.23
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1583	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	168	168	0.243	



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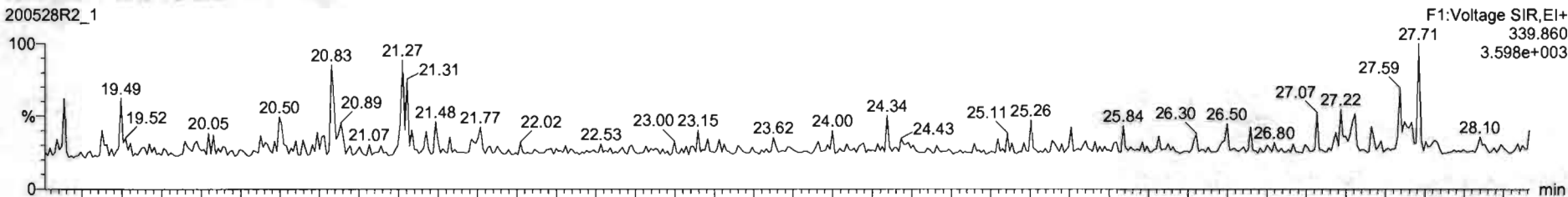
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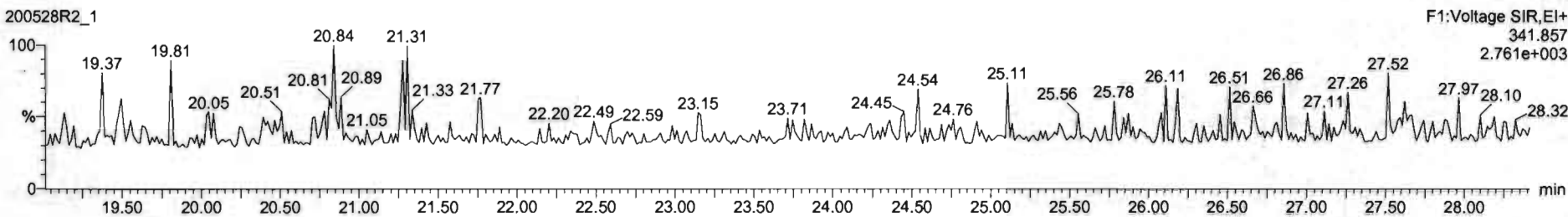
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200528R2\_1

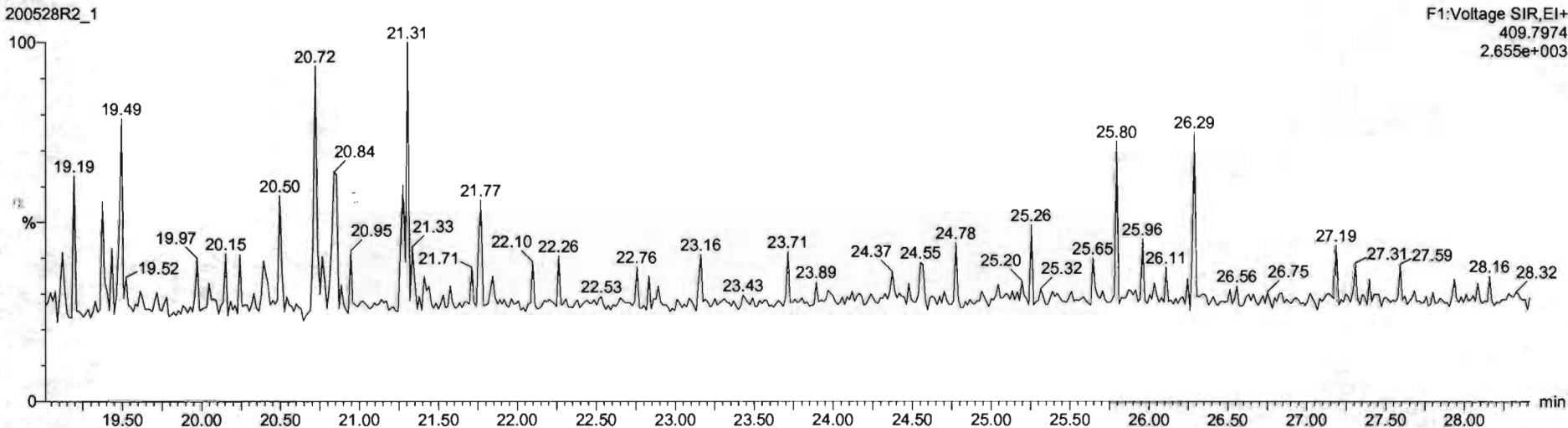


200528R2\_1



DPE6

200528R2\_1



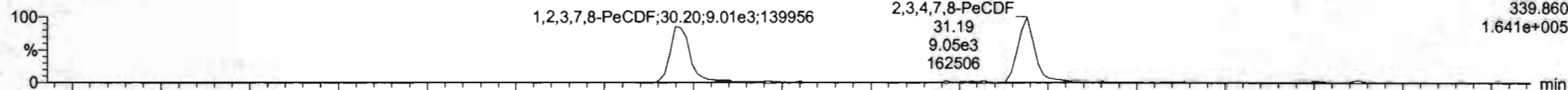
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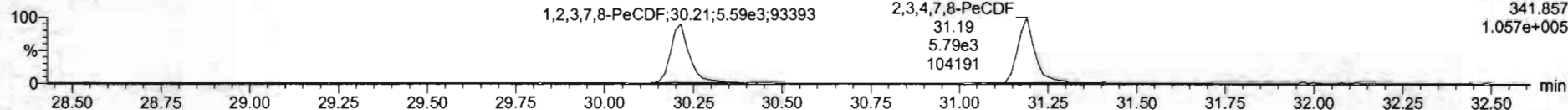
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**1,2,3,7,8-PeCDF**

200528R2\_1

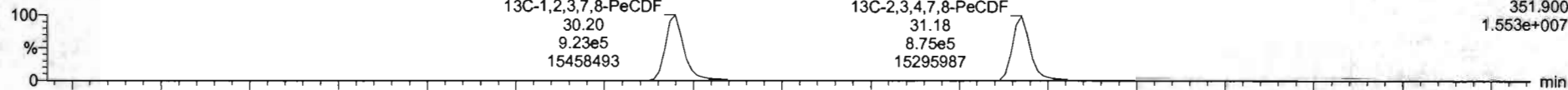


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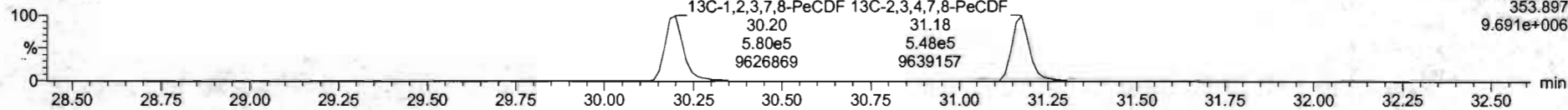


**13C-1,2,3,7,8-PeCDF**

200528R2\_1

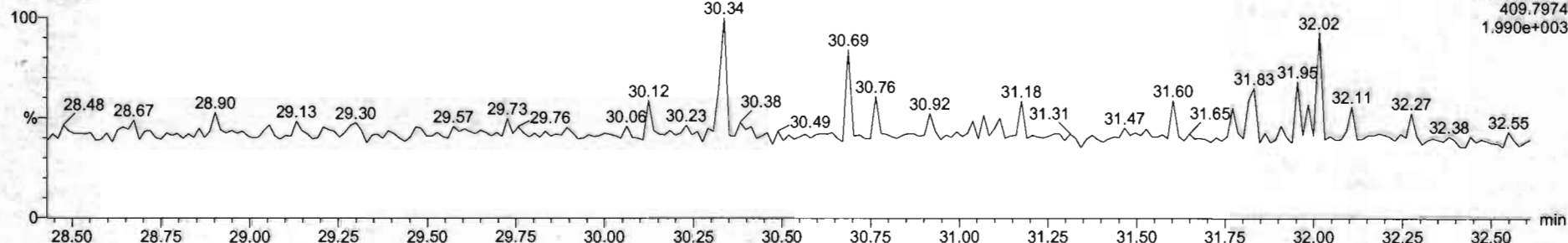


200528R2\_1



**DPE2**

200528R2\_1



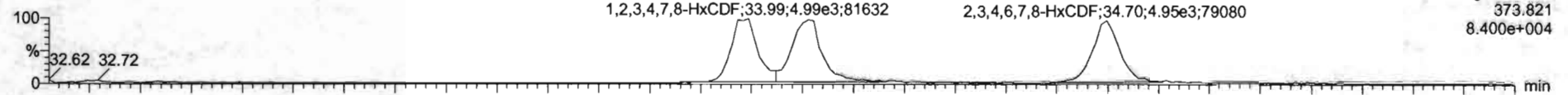
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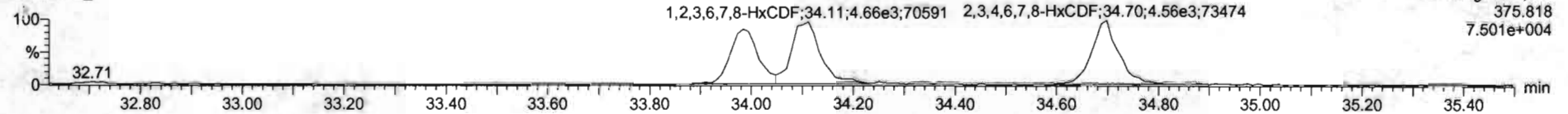
**1,2,3,4,7,8-HxCDF**

200528R2\_1



F3:Voltage SIR,EI+  
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8.400e+004

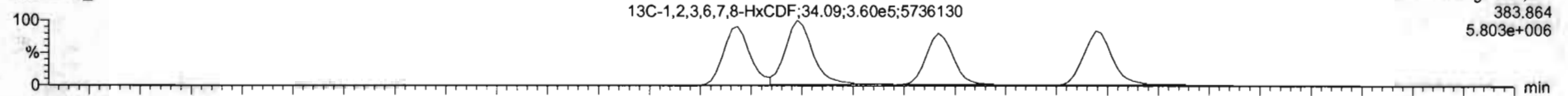
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7.501e+004

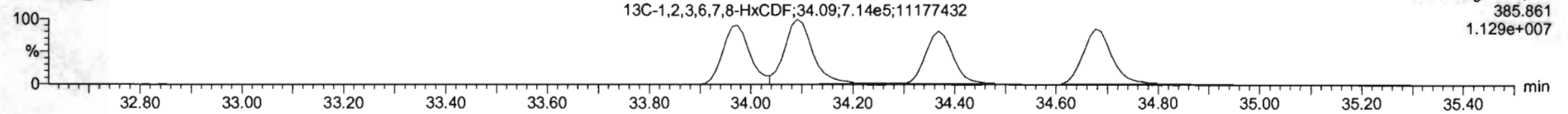
**13C-1,2,3,4,7,8-HxCDF**

200528R2\_1



F3:Voltage SIR,EI+  
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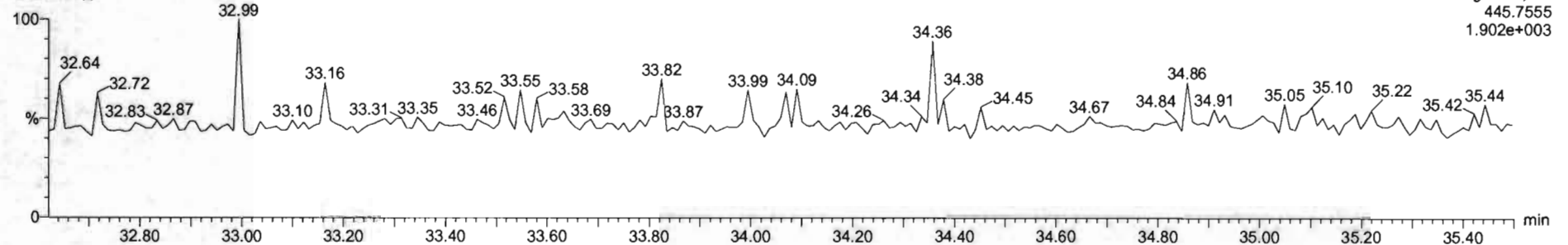
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F3:Voltage SIR,EI+  
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1.129e+007

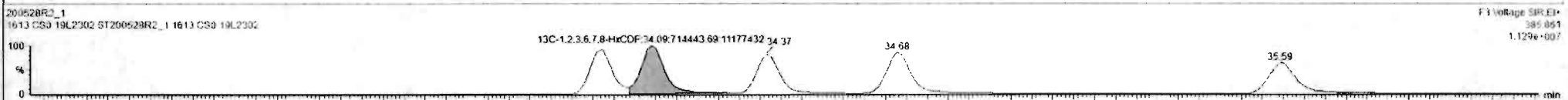
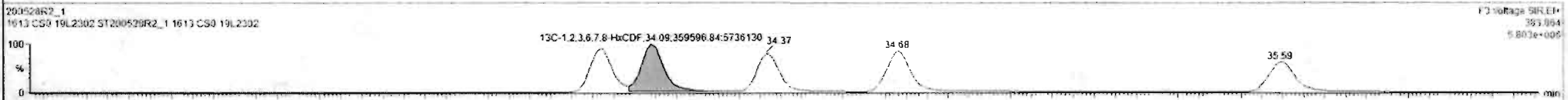
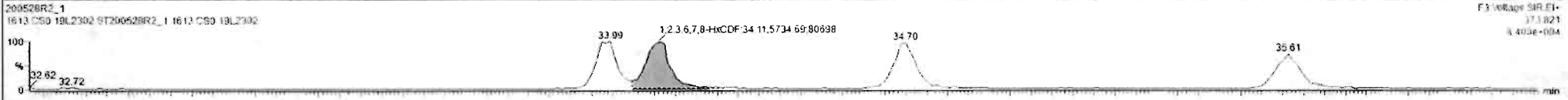
**DPE3**

200528R2\_1



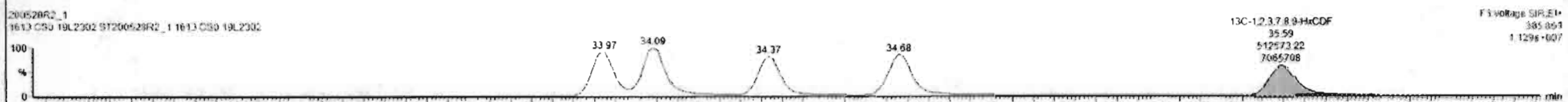
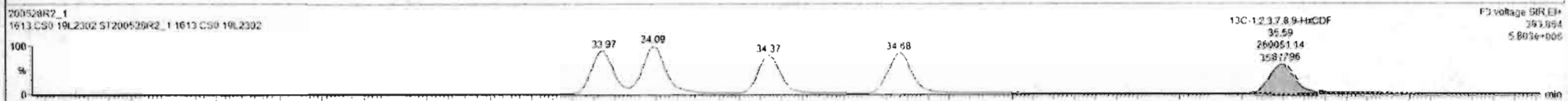
F3:Voltage SIR,EI+  
445.7555  
1.902e+003

Name	Resp	RA	inj	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.58	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6051	1.000	31.50	1.000	1.12	90.0	0.0292	1.12
3 1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0324	1.000	24.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	5.14e3	1.20	NO	0.8265	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	38.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	26.67	1.001	0.223	89.1	0.0147	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0709	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.56e3	1.25	NO	0.8845	1.000	33.99	1.001	1.05	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8082	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.62	61.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.8460	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e6	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21 13C-1,2,3,6,7,8-HxCDD	9.27e6	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	





#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.76e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	95.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.55	1.000	1.12	96.0	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	24.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	24.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8265	1.000	25.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.16e3	0.99	NO	0.8630	1.000	26.72	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.225	89.1	0.0142	0.225
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8325	1.000	20.20	1.000	1.09	87.1	0.0265	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8545	1.000	23.95	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8252	1.000	24.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	24.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	25.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	27.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	20.33	1.001	1.02	81.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0832	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	24.95	1.017	108	108	0.243	



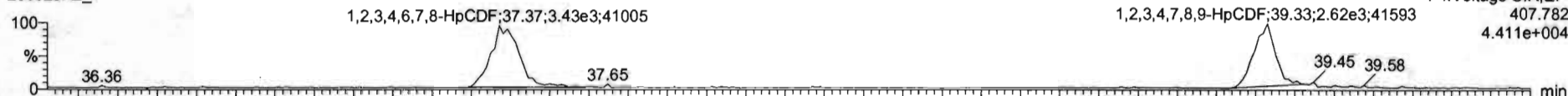
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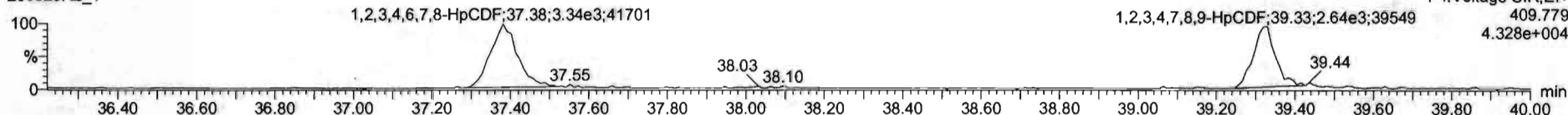
**1,2,3,4,6,7,8-HpCDF**

200528R2\_1



F4:Voltage SIR,EI+  
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4.411e+004

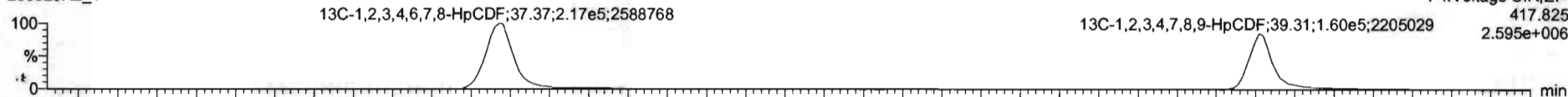
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F4:Voltage SIR,EI+  
409.779  
4.328e+004

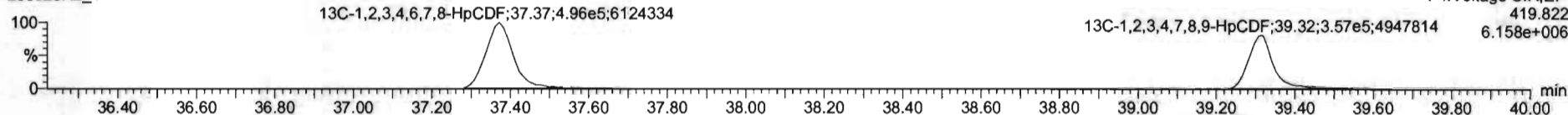
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200528R2\_1



F4:Voltage SIR,EI+  
417.825  
2.595e+006

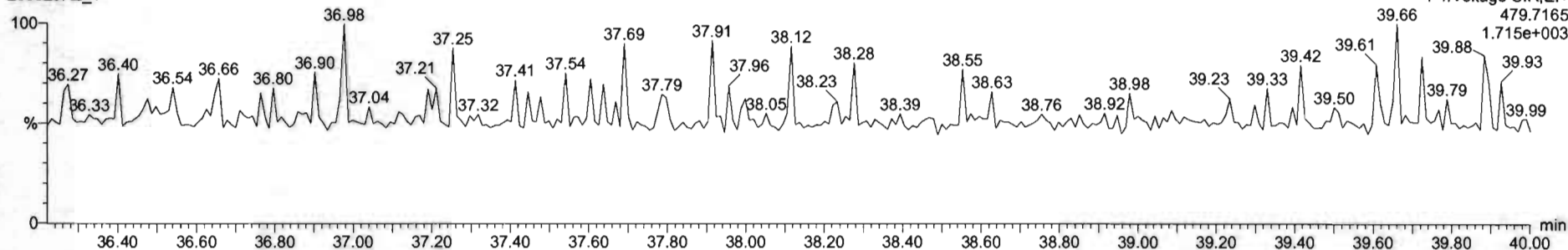
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F4:Voltage SIR,EI+  
419.822  
6.158e+006

**CPE4**

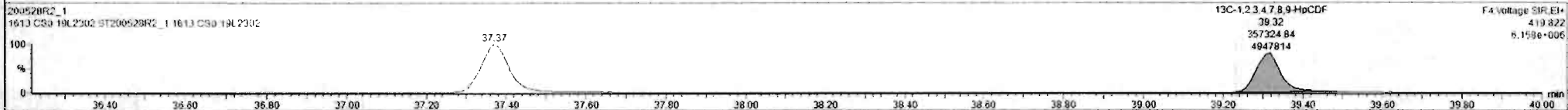
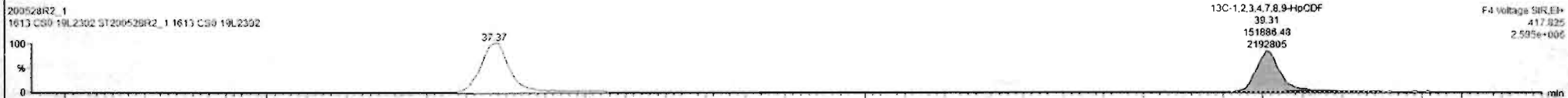
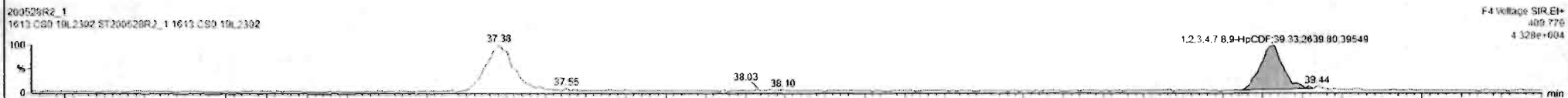
200528R2\_1



F4:Voltage SIR,EI+  
479.7165  
1.715e+003



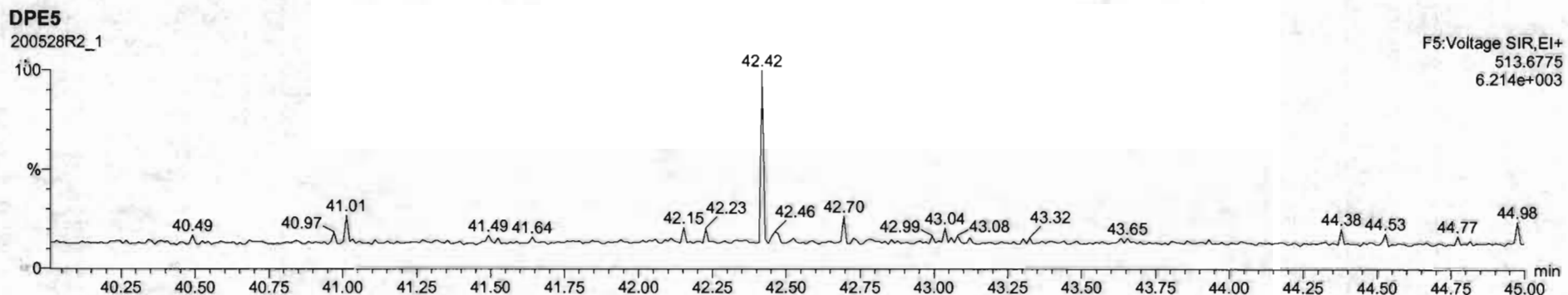
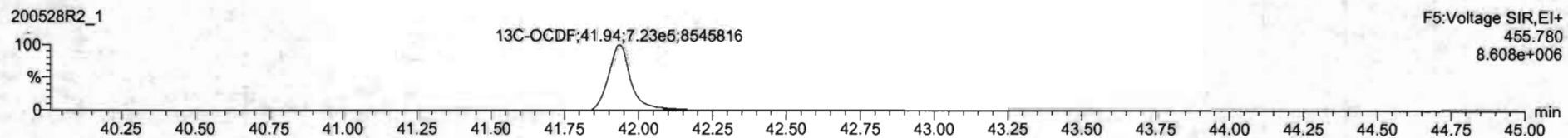
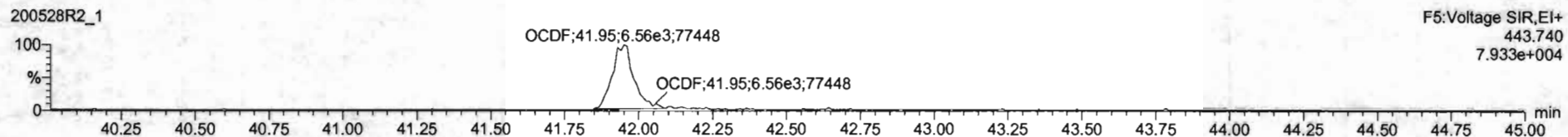
Name	Resp	RA	nBy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.79e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	8.02e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDF	8.14e3	1.20	NO	0.8269	1.000	35.25	1.000	1.10	88.1	0.0404	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.0	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8852	1.000	34.11	1.001	1.12	89.0	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8797	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	88.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.35	1.001	1.02	81.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	92.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.218	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



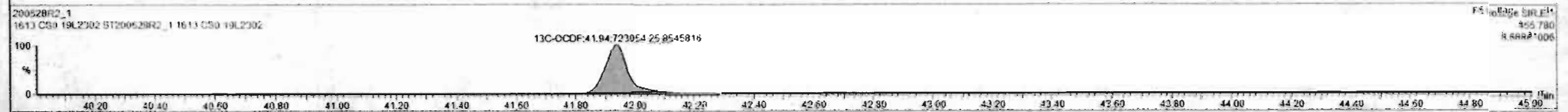
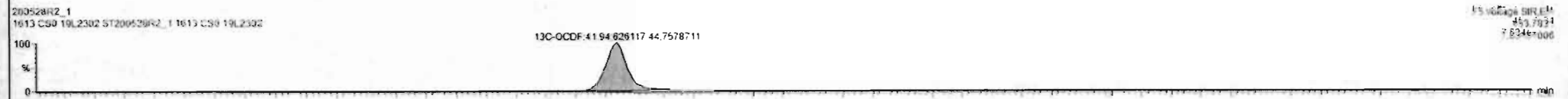
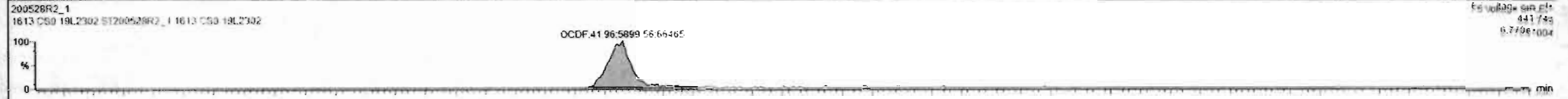
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



Name	Resp	RA	aly	RRF	wtWt	RT	RRT	Conc	%Rec	QL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.98	NO	0.8803	1.000	26.54	1.000	0.212	85.7	0.0247	0.212
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9041	1.000	31.60	1.000	1.12	90.0	0.0202	1.12
3 1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	89.4	0.042E	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.9523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.9205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.056E	1.09
7 OCDD	1.23e4	0.88	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.75	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8892	1.000	24.11	1.001	1.12	89.7	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.95	NO	1.0126	1.000	39.33	1.001	1.02	81.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8685	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19 13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.218	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	

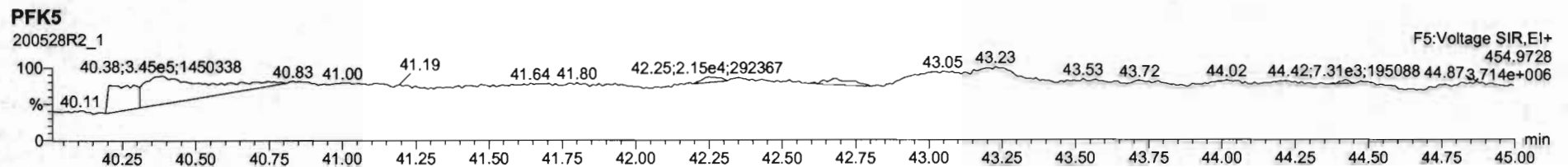
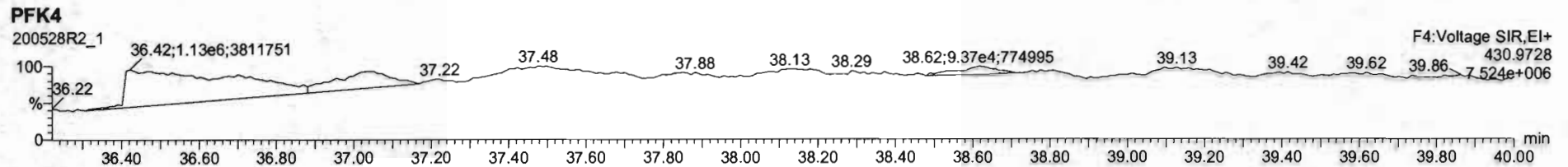
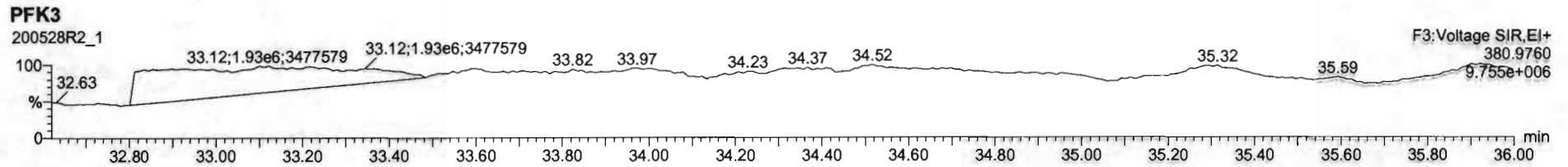
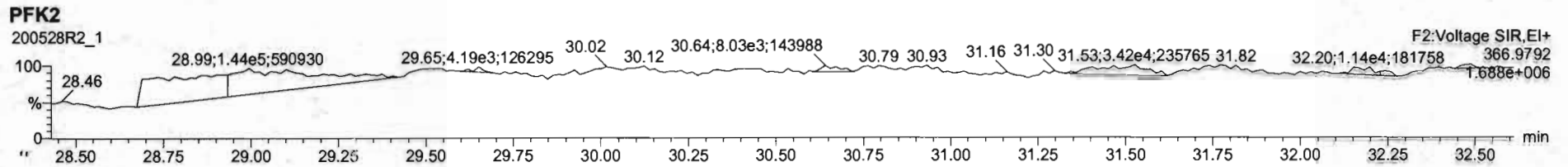
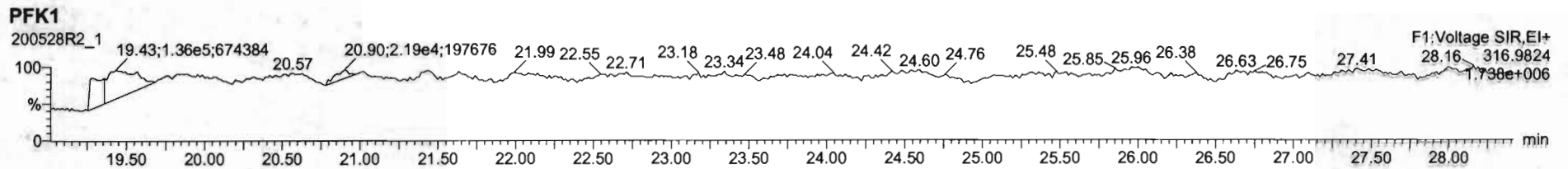


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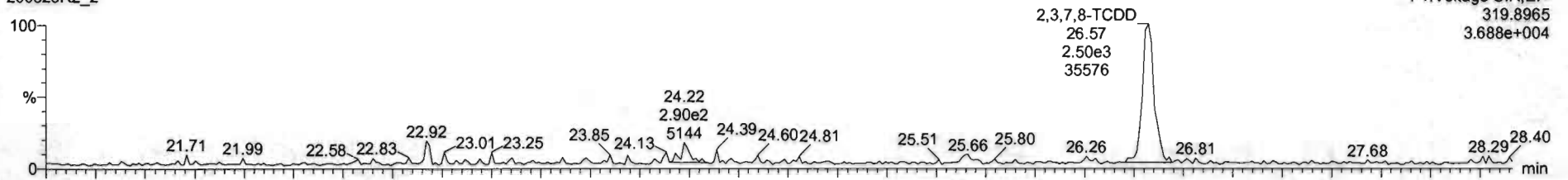
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

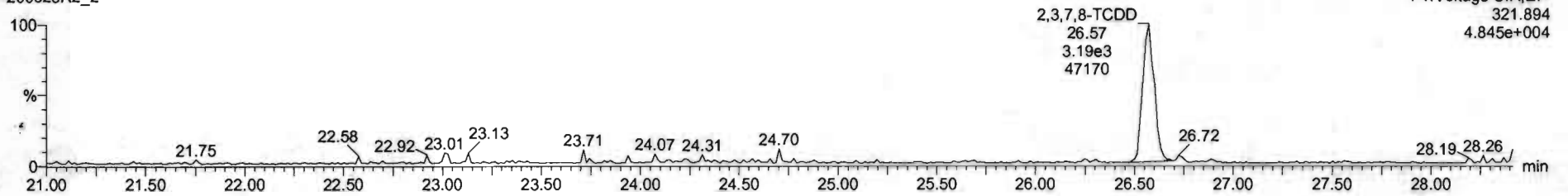
2,3,7,8-TCDD

200528R2\_2



F1:Voltage SIR,EI+  
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3.688e+004

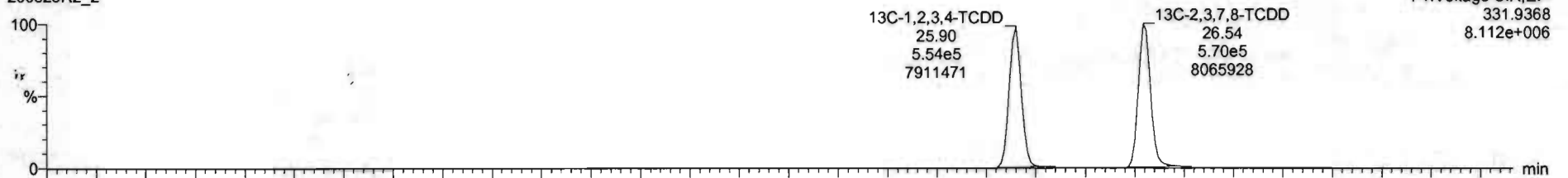
200528R2\_2



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321.894  
4.845e+004

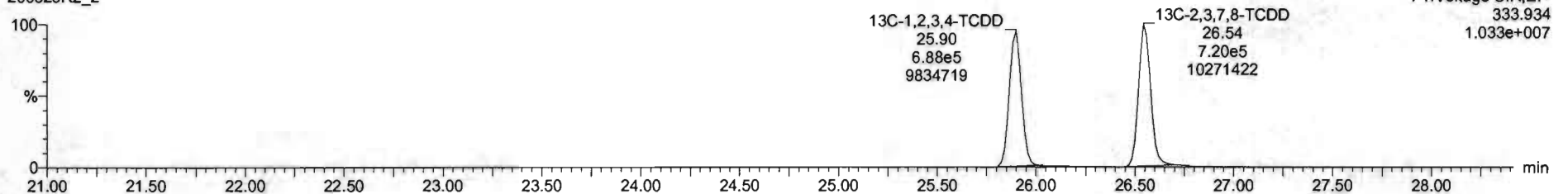
13C-2,3,7,8-TCDD

200528R2\_2



F1:Voltage SIR,EI+  
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8.112e+006

200528R2\_2



F1:Voltage SIR,EI+  
333.934  
1.033e+007

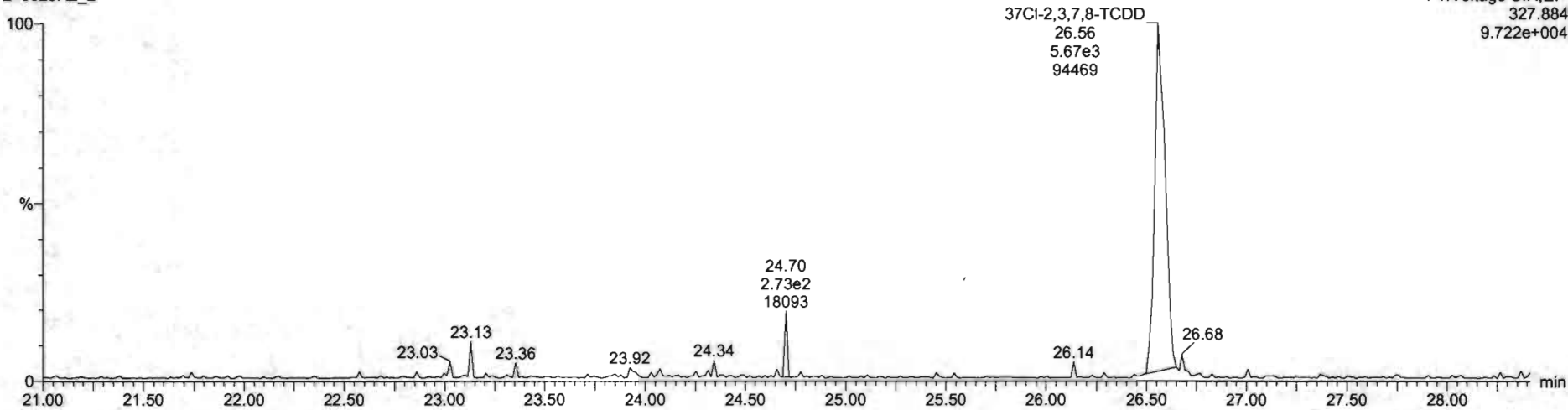
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

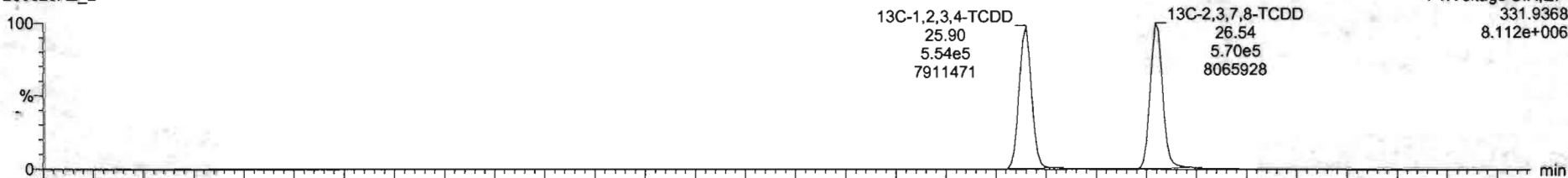
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200528R2\_2

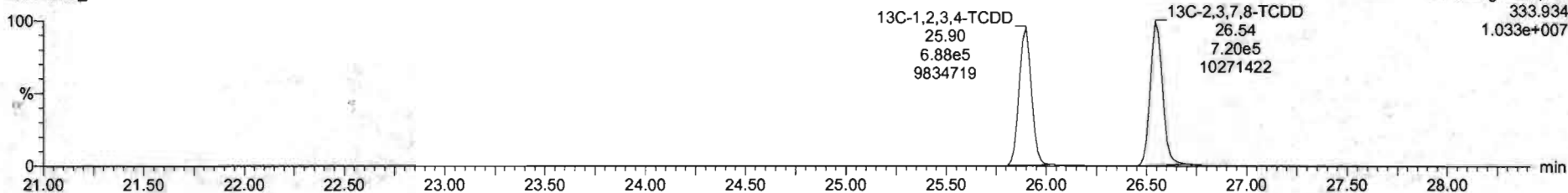


13C-1,2,3,4-TCDD

200528R2\_2



200528R2\_2



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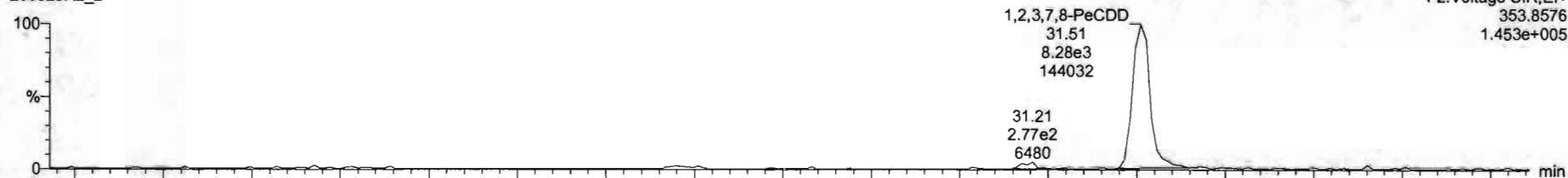
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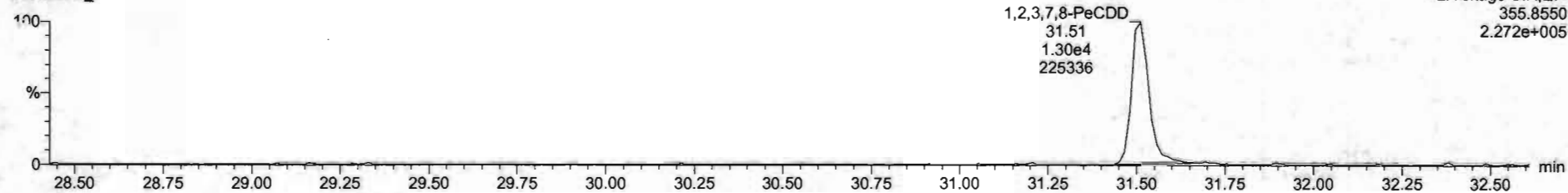
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**1,2,3,7,8-PeCDD**

200528R2\_2

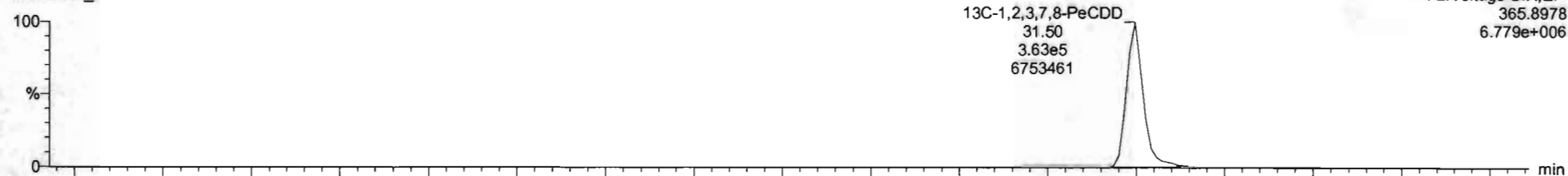


200528R2\_2

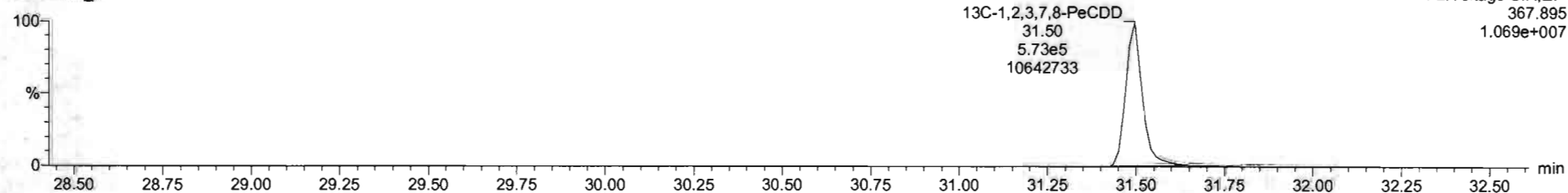


**13C-1,2,3,7,8-PeCDD**

200528R2\_2



200528R2\_2



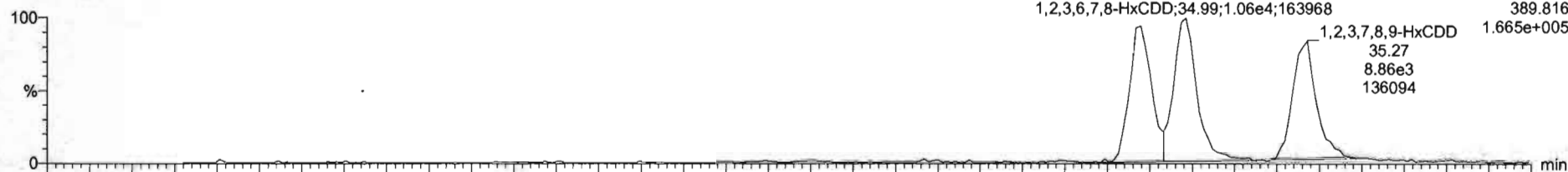
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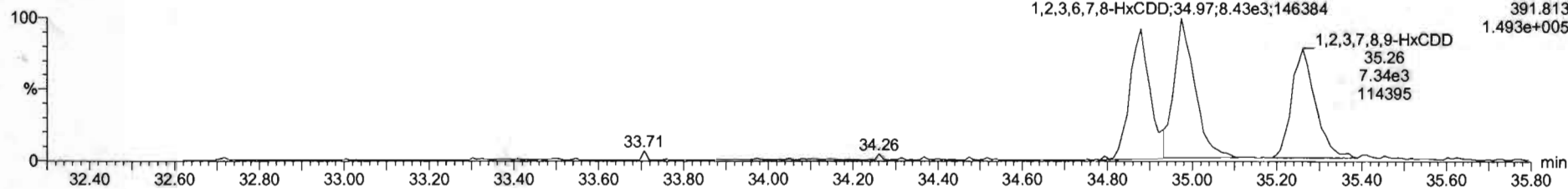
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**1,2,3,4,7,8-HxCDD**

200528R2\_2

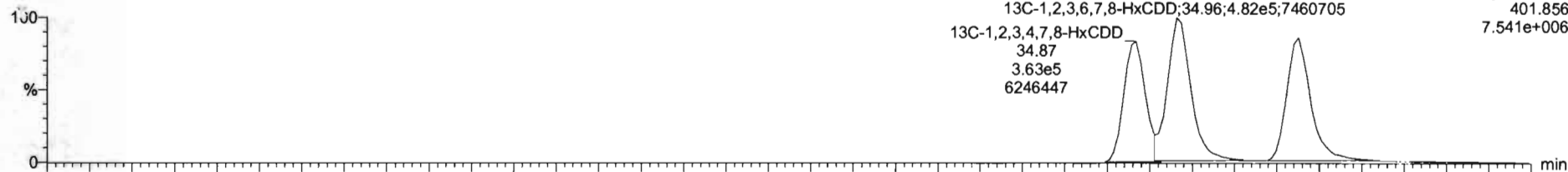


200528R2\_2

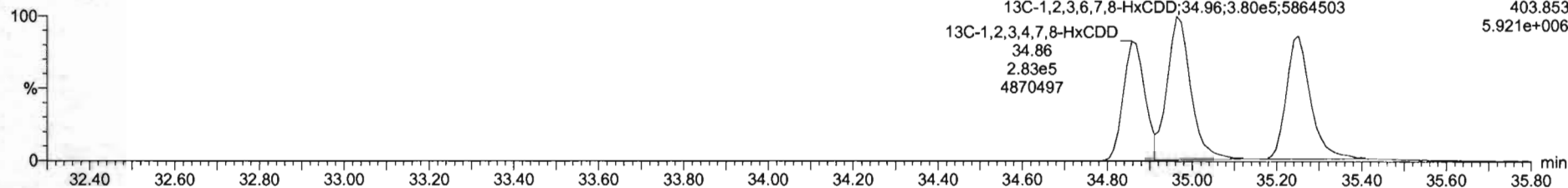


**13C-1,2,3,4,7,8-HxCDD**

200528R2\_2



200528R2\_2





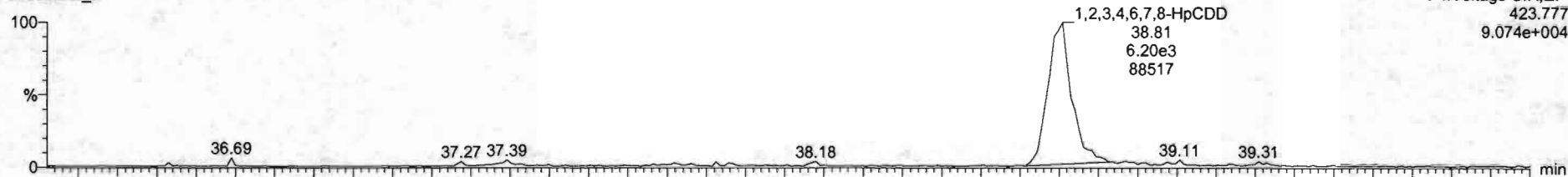
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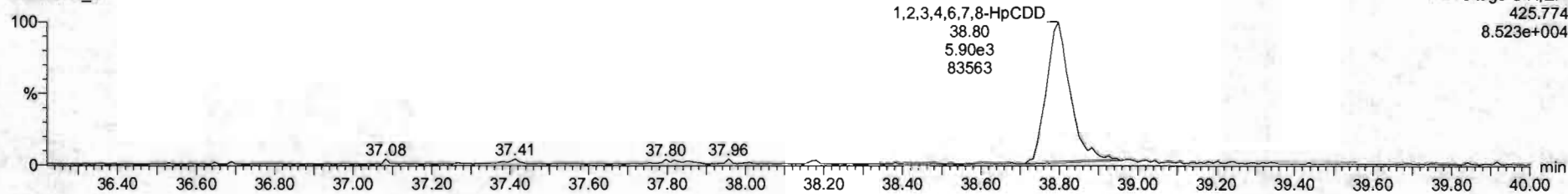
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_2

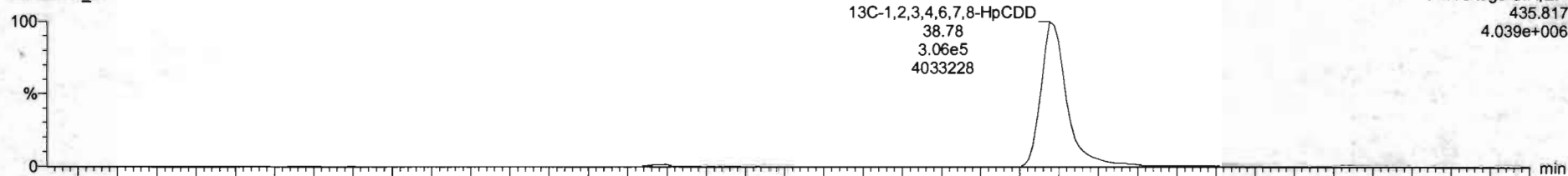


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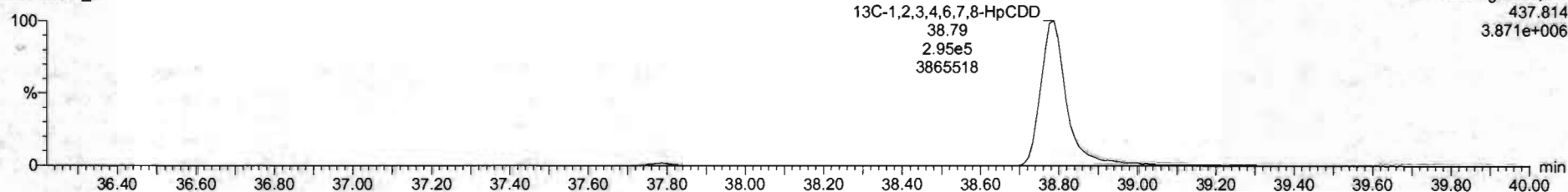


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_2



200528R2\_2

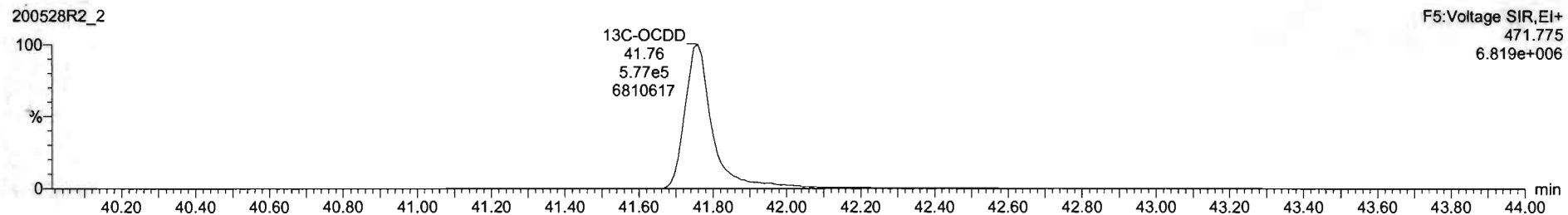
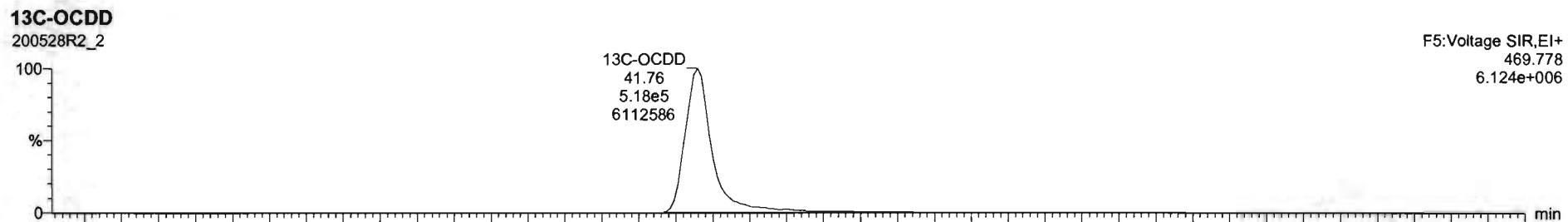
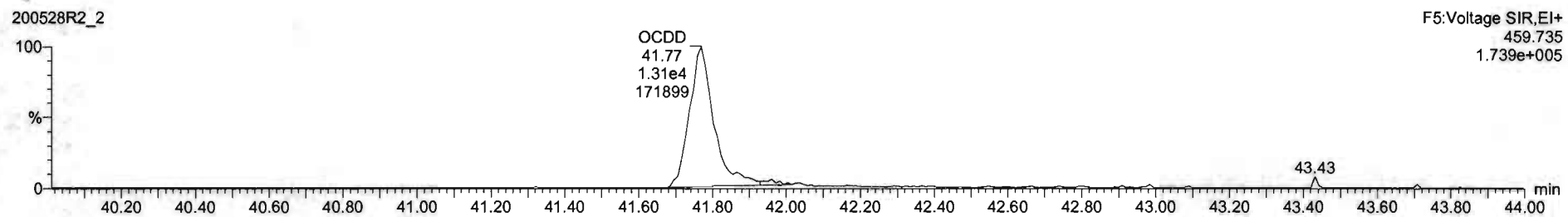
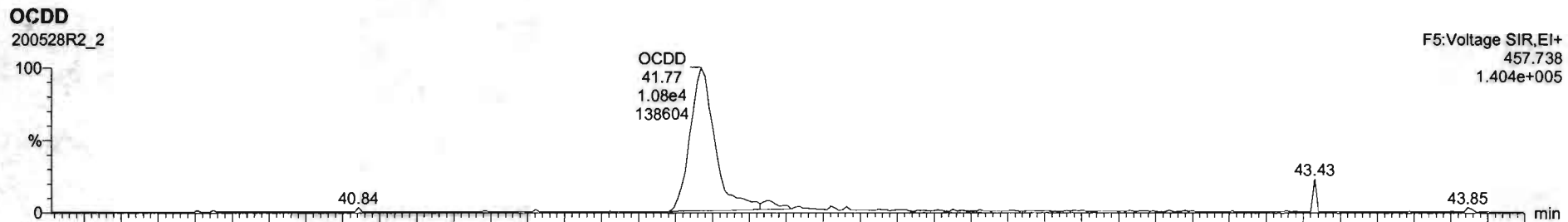


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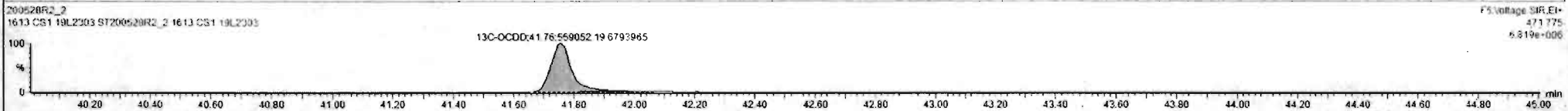
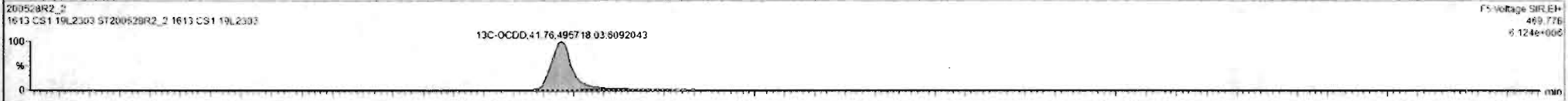
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



Name	Resp	RA	nJY	RRF	wIvol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0324	1.000	34.86	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.50e4	1.25	NO	0.8923	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8865	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.61	1.001	2.33	93.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	98.4	0.149	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.463	97.7	0.0670	0.468
9 1,2,3,7,8-PeCDF	3.06e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9241	1.000	34.71	1.001	2.38	96.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.32	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8065	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1563	1.000	26.54	1.025	89.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.83	NO	0.8490	1.000	31.50	1.216	86.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7790	1.000	34.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.95	1.017	87.7	87.7	0.140	

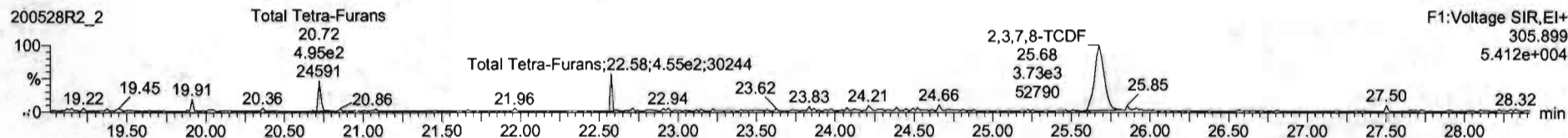
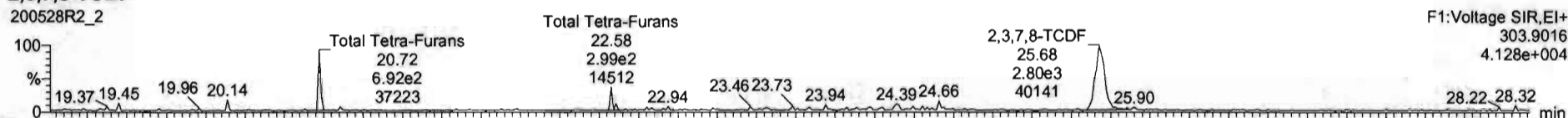


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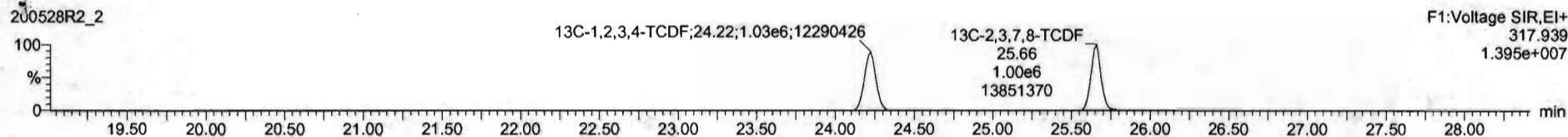
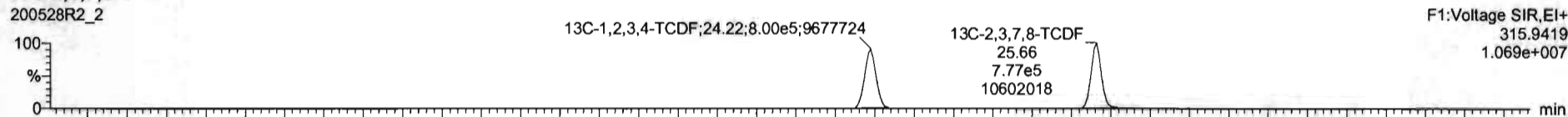
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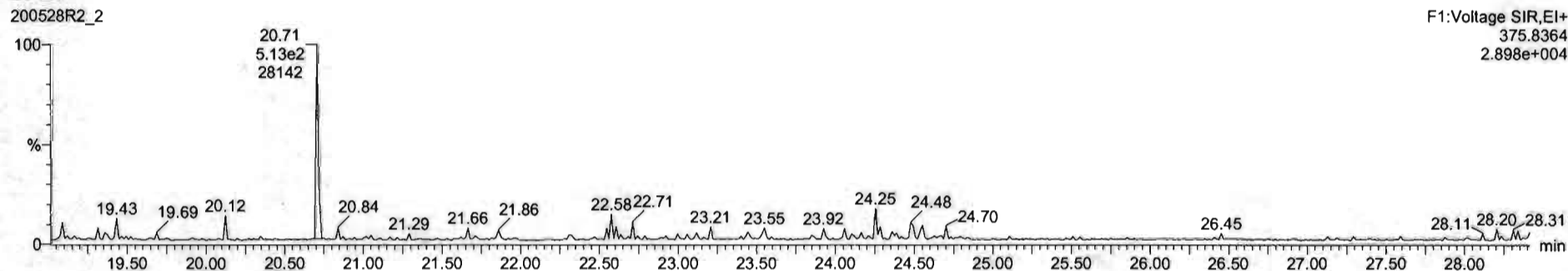
**2,3,7,8-TCDF**



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



**DPE1**



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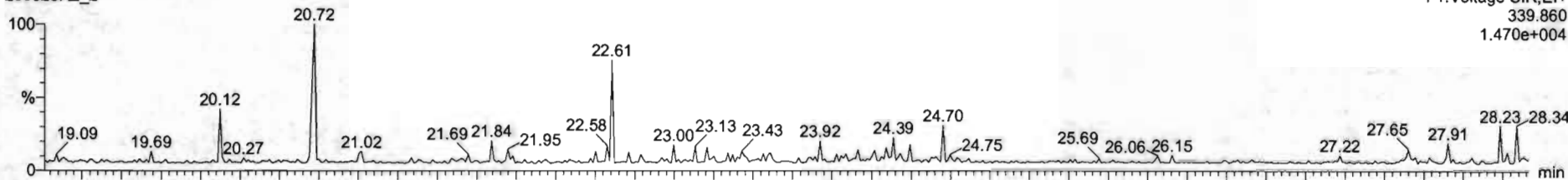
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Name: 200528R2\_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2\_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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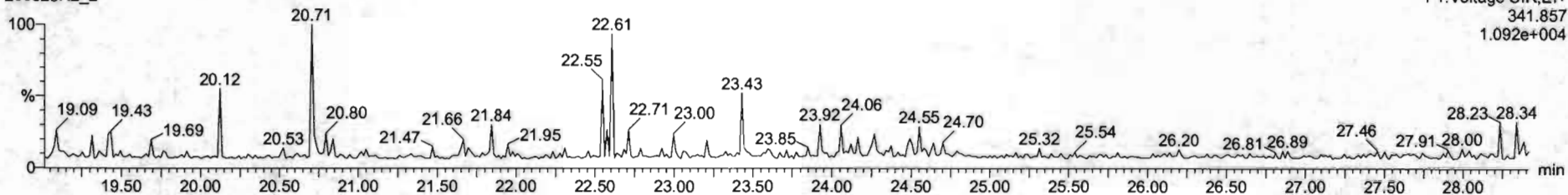
200528R2\_2

F1:Voltage SIR,EI+  
339.860  
1.470e+004



200528R2\_2

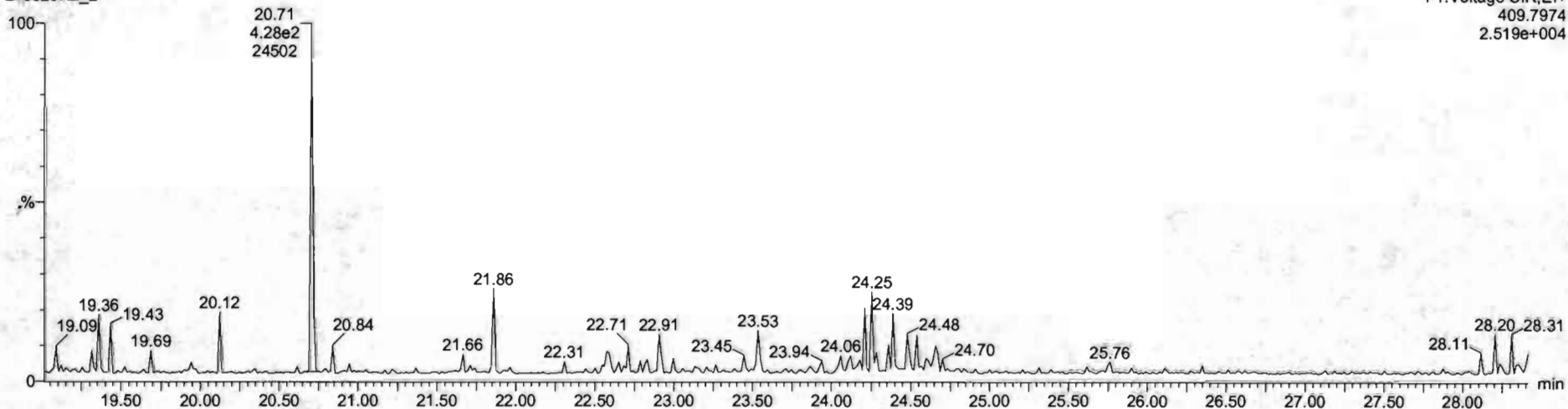
F1:Voltage SIR,EI+  
341.857  
1.092e+004



DPE6

200528R2\_2

F1:Voltage SIR,EI+  
409.7974  
2.519e+004





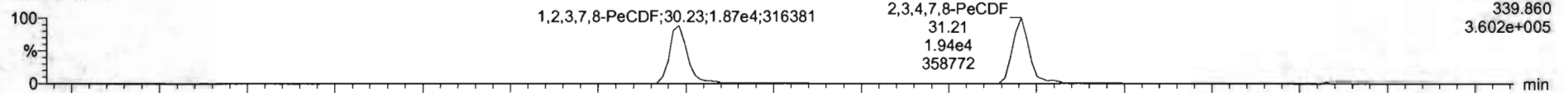
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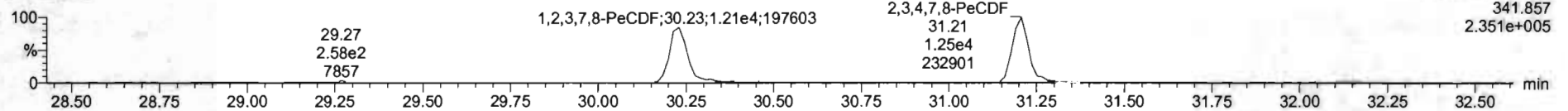
**1,2,3,7,8-PeCDF**

200528R2\_2



F2:Voltage SIR,EI+  
339.860  
3.602e+005

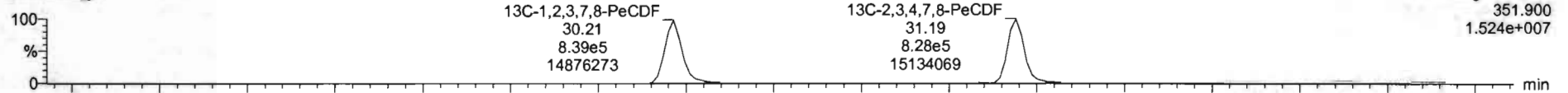
200528R2\_2



F2:Voltage SIR,EI+  
341.857  
2.351e+005

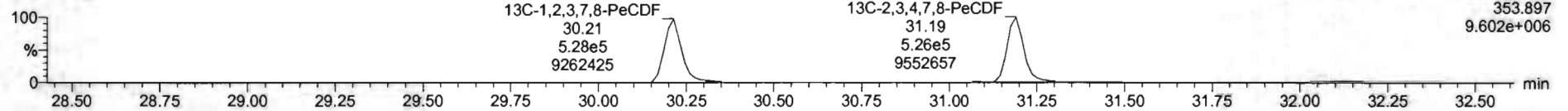
**13C-1,2,3,7,8-PeCDF**

200528R2\_2



F2:Voltage SIR,EI+  
351.900  
1.524e+007

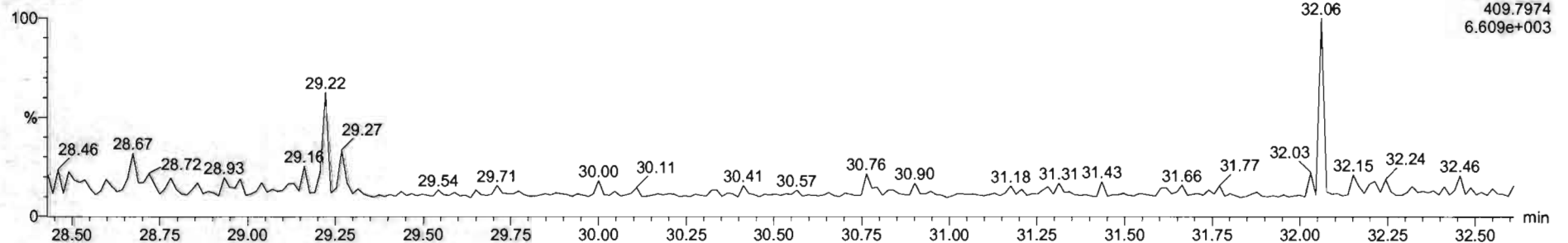
200528R2\_2



F2:Voltage SIR,EI+  
353.897  
9.602e+006

**DPE2**

200528R2\_2



F2:Voltage SIR,EI+  
409.7974  
6.609e+003

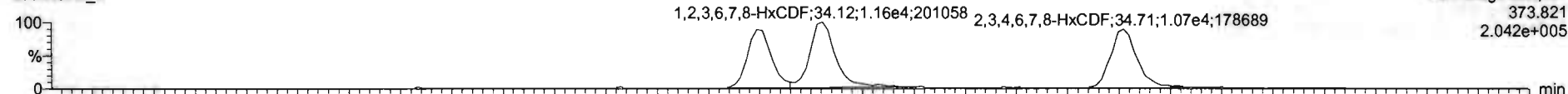
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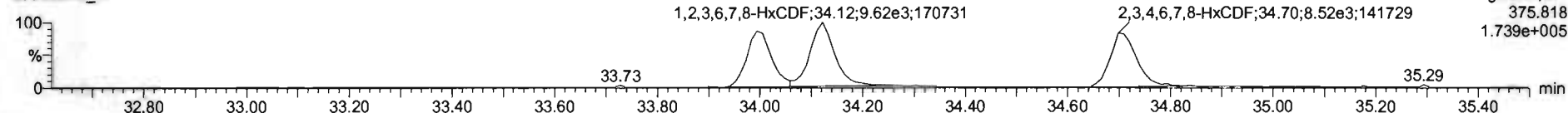
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**1,2,3,4,7,8-HxCDF**

200528R2\_2

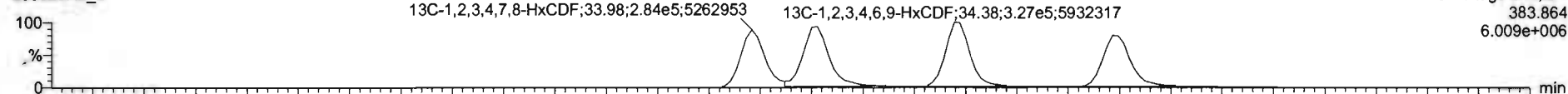


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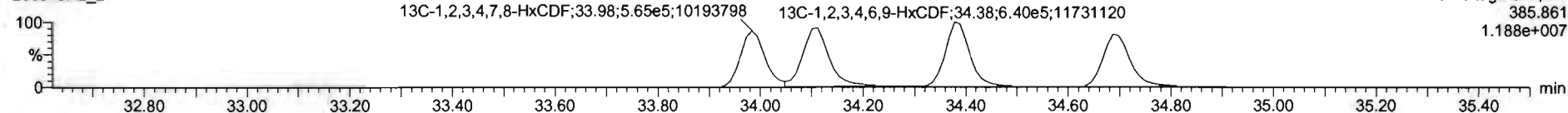


**13C-1,2,3,4,7,8-HxCDF**

200528R2\_2

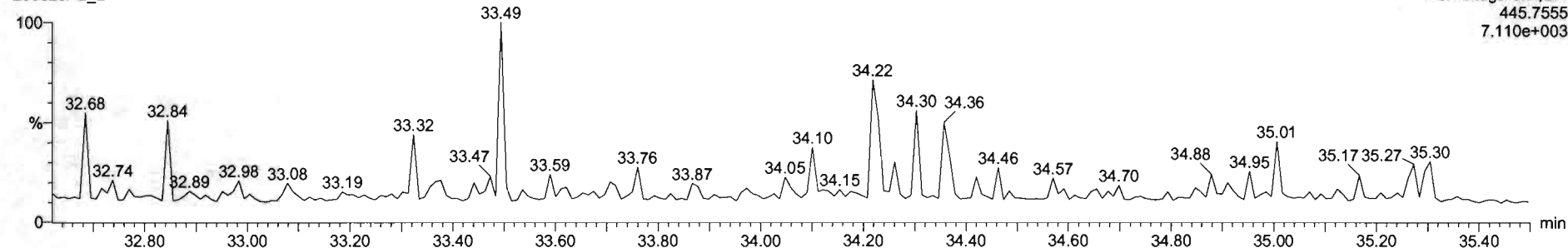


200528R2\_2



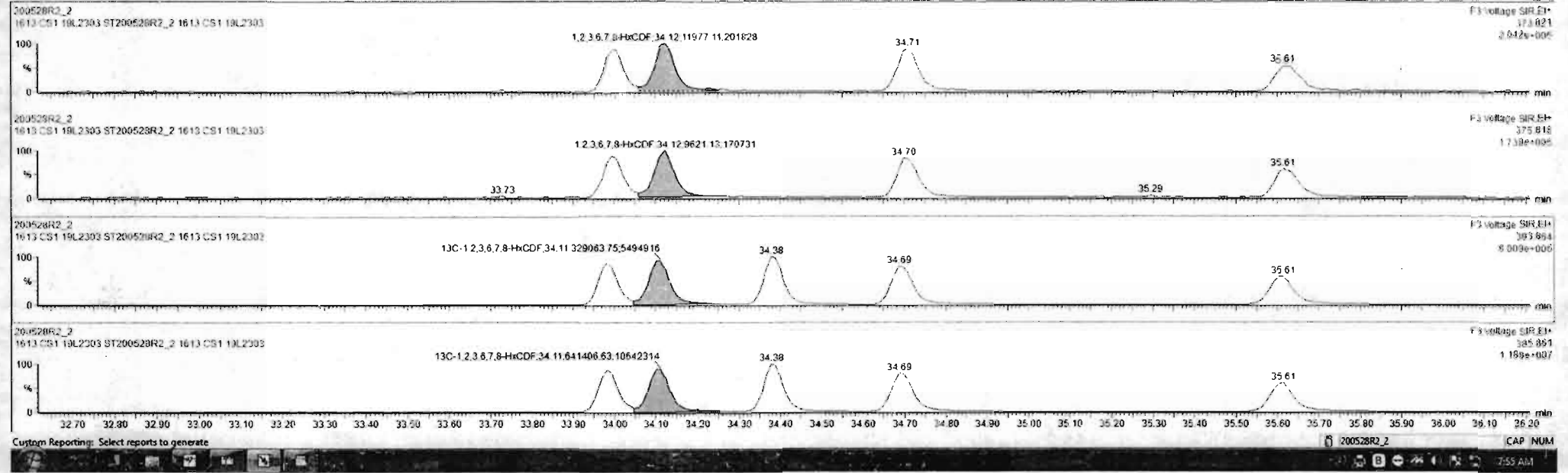
**DPE3**

200528R2\_2





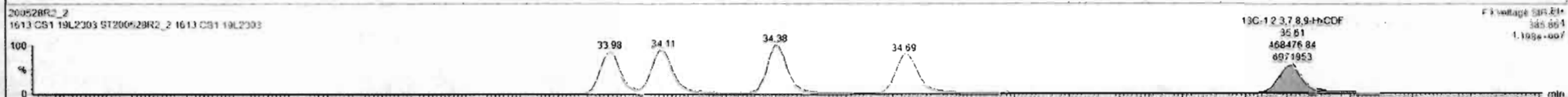
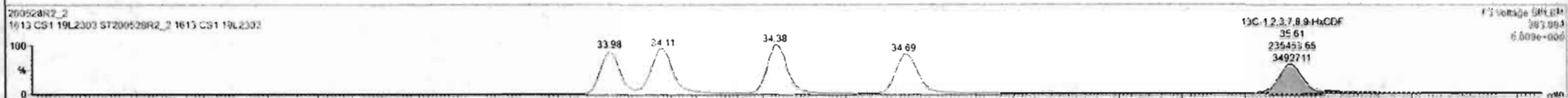
#	Name	Resp	RA	nby	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.69e3	0.76	NO	0.8963	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9051	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0334	1.000	34.86	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8979	1.000	34.99	1.001	2.47	98.5	0.0747	3.47
5	1,2,3,7,9-HxCDD	1.62e4	1.21	NO	0.8269	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.51	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9340	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	3.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.6552	1.000	34.12	1.000	2.50	100	0.0542	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.38	95.3	0.0702	2.38
14	1,2,3,7,8,9-HxCDF	1.46e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	12C-2,3,7,8-TCDD	1.79e6	0.79	NO	1.1563	1.000	26.54	1.025	89.8	89.8	0.0928	
19	13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	68.7	68.7	0.113	
20	13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



Custom Reporting: Select reports to generate

200528R2\_2 CAP NUM

#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.99e3	0.76	NO	0.8843	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9051	1.000	31.51	1.000	2.50	99.3	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.05e4	1.27	NO	1.0334	1.000	34.85	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8973	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5	1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8565	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.05e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	0.15e4	1.55	NO	0.9346	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8882	1.000	34.12	1.000	2.50	100	0.0642	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.36	96.3	0.0702	2.36
14	1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8787	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8565	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1562	1.000	26.54	1.025	89.8	89.8	0.0528	
19	13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20	13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0157	1.000	34.96	1.017	87.7	87.7	0.140	



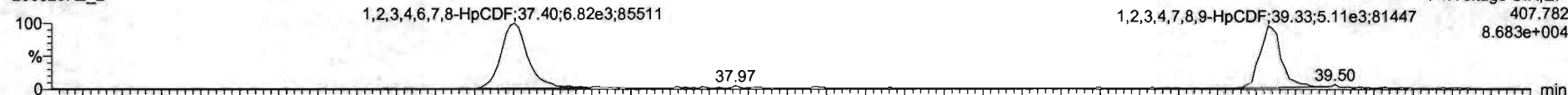
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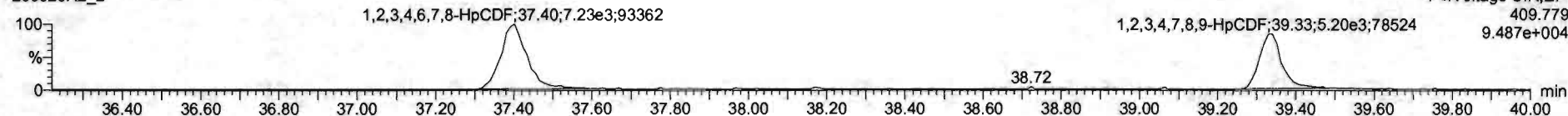
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_2



200528R2\_2

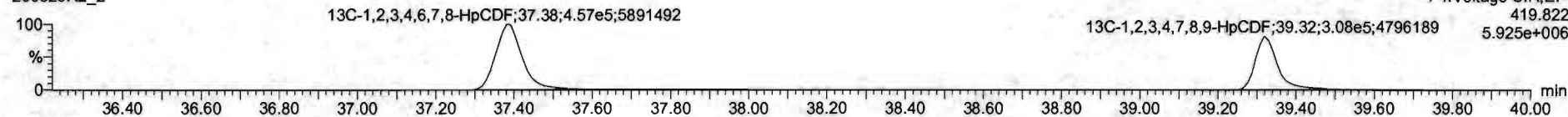


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_2

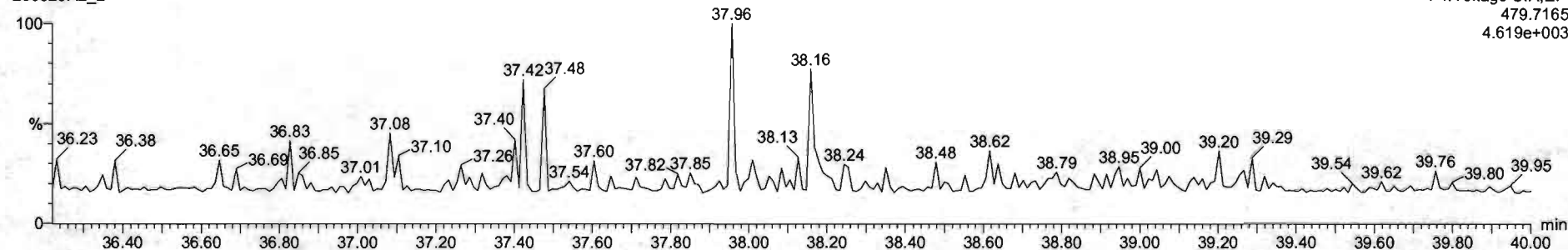


200528R2\_2



**DPE4**

200528R2\_2



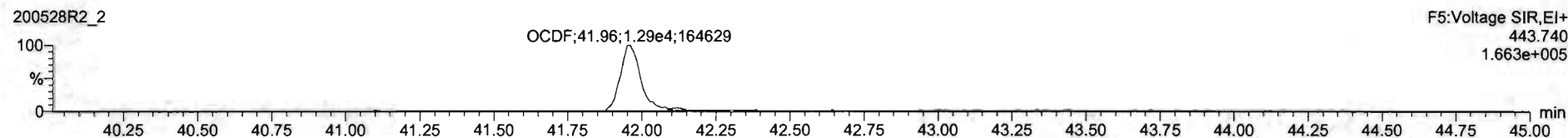
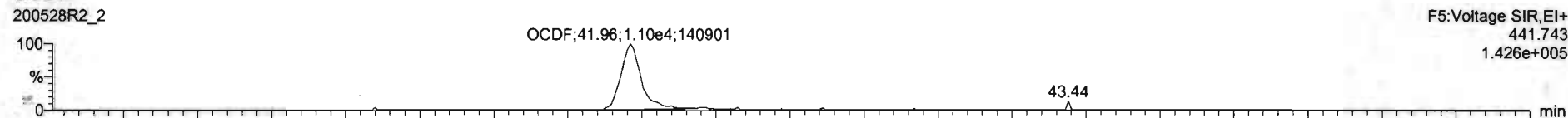
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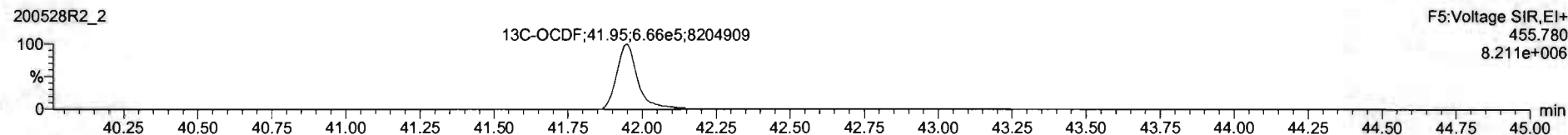
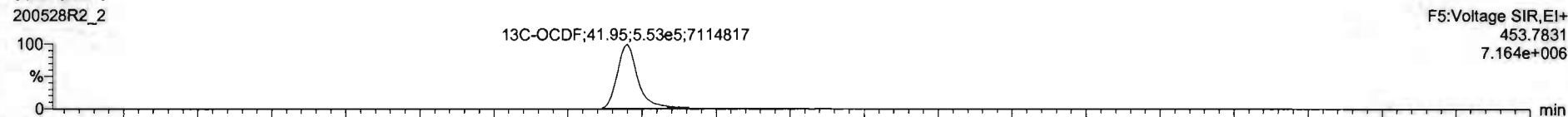
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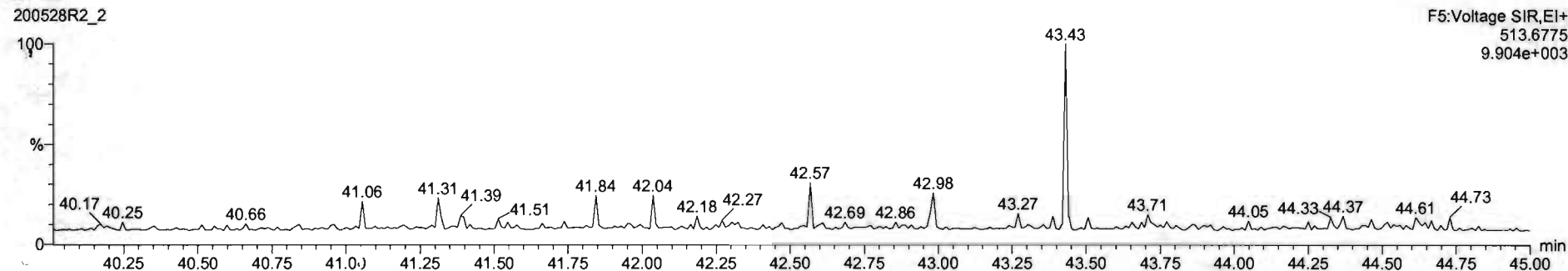
**OCDF**



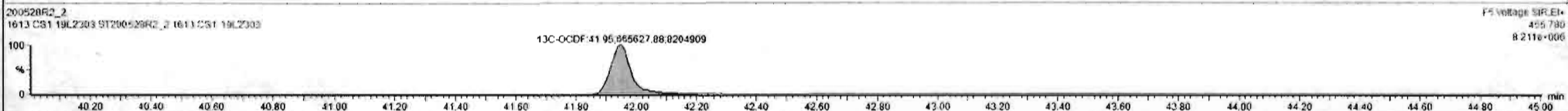
**13C-OCDF**



**DPE5**



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.85e4	1.27	NO	1.0334	1.000	24.85	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.96e4	1.25	NO	0.8923	1.000	24.99	1.001	2.47	96.9	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8869	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	92.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.148	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.488	97.7	0.0670	0.488
9 1,2,3,7,8-PeCDF	3.09e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.28	NO	0.9341	1.000	34.21	1.001	2.38	95.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.42e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0126	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e0	0.79	NO	1.1563	1.000	26.54	1.025	39.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	5.46e5	1.28	NO	0.7790	1.000	24.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



Custom Reporting: Select reports to generate.

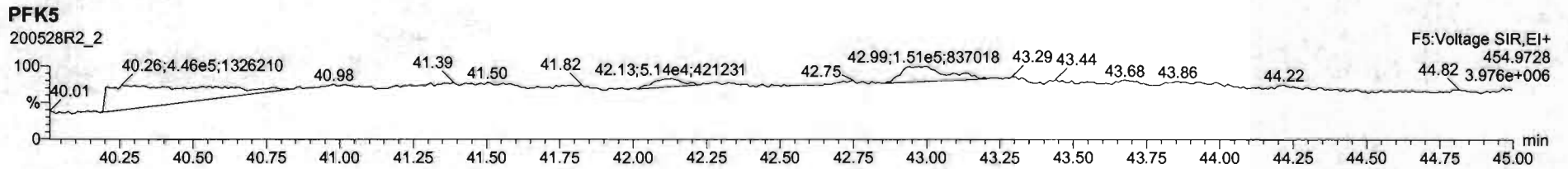
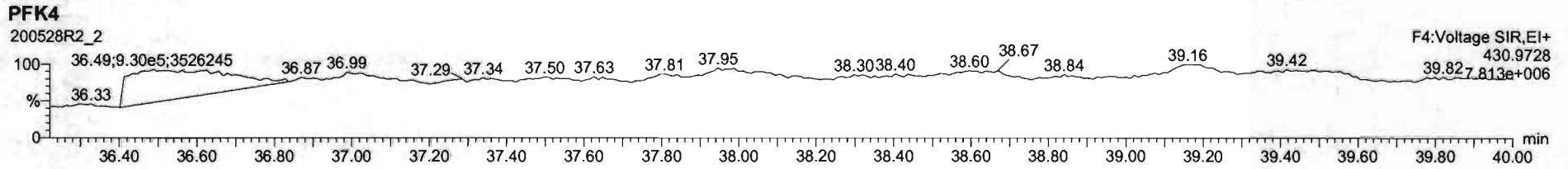
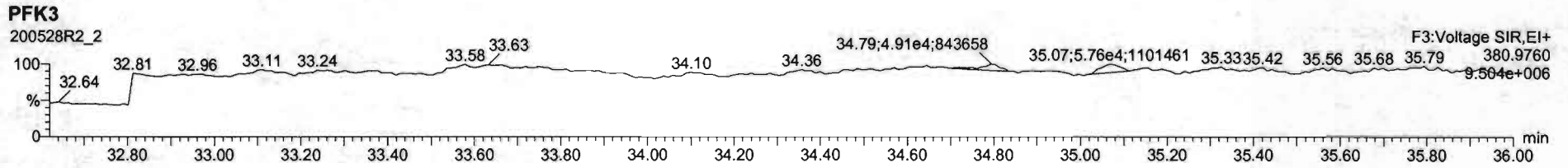
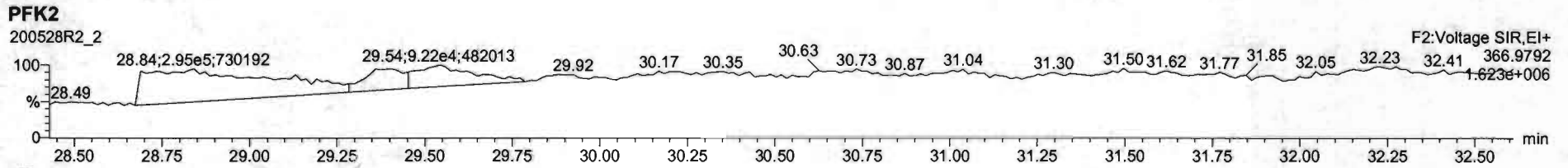
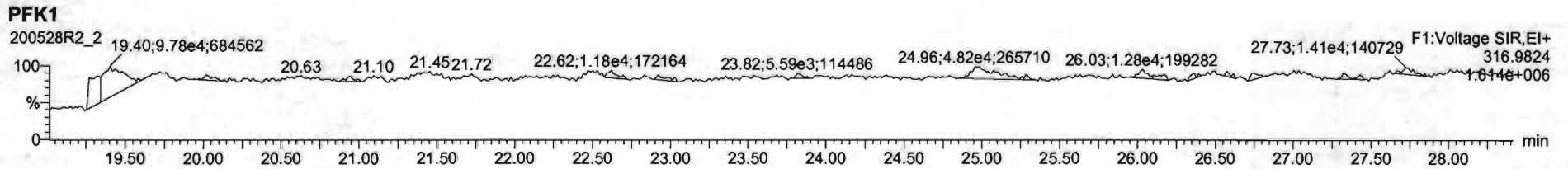
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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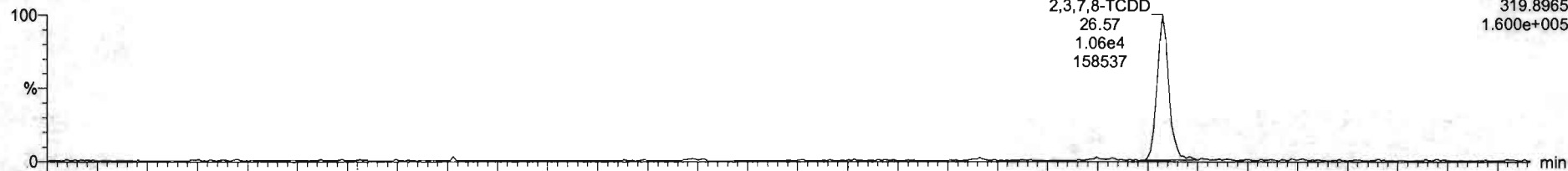
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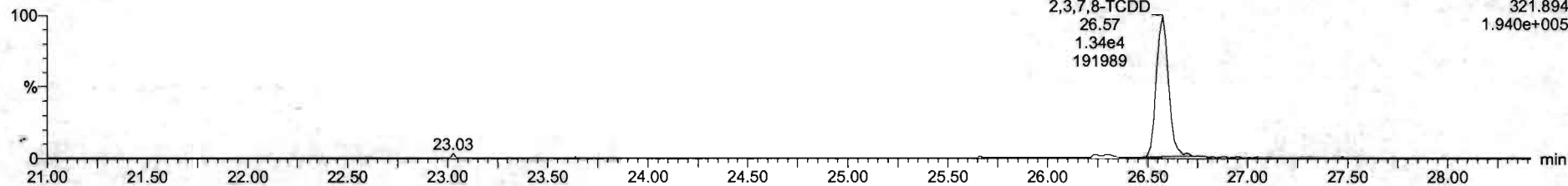
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**2,3,7,8-TCDD**

200528R2\_3

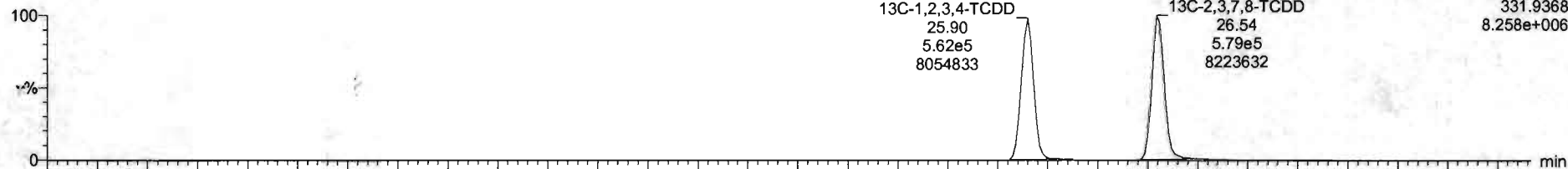


200528R2\_3

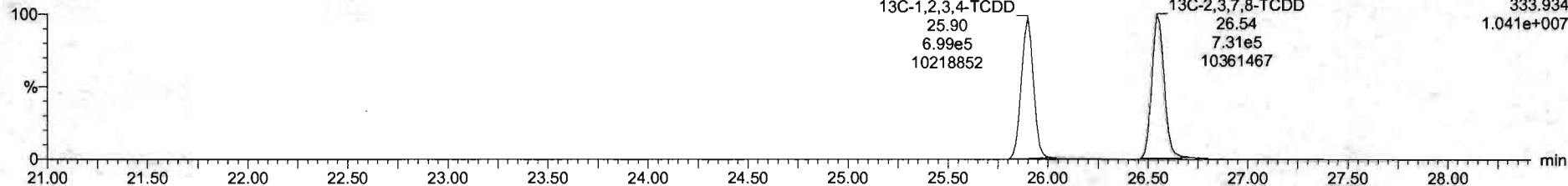


**13C-2,3,7,8-TCDD**

200528R2\_3



200528R2\_3





Dataset: Untitled

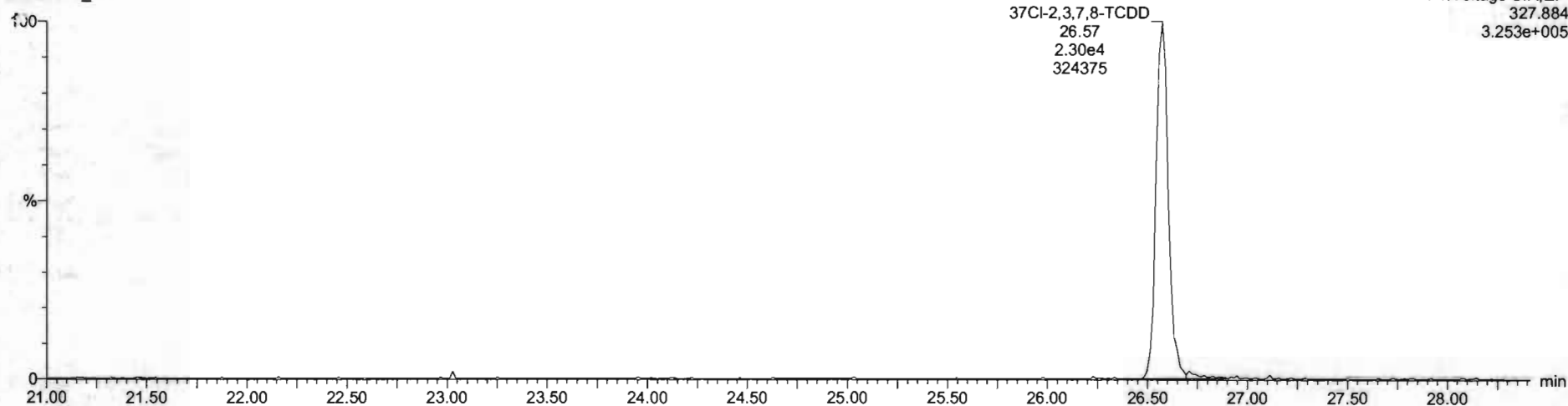
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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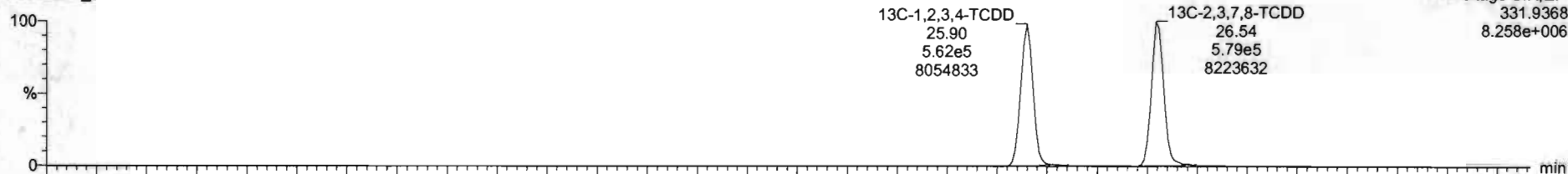
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200528R2\_3

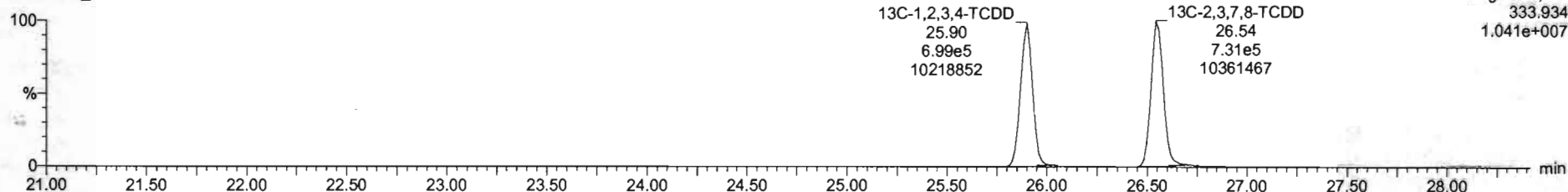


**13C-1,2,3,4-TCDD**

200528R2\_3



200528R2\_3



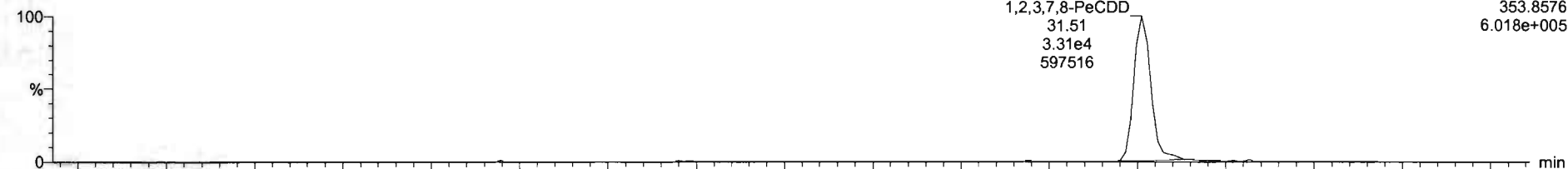
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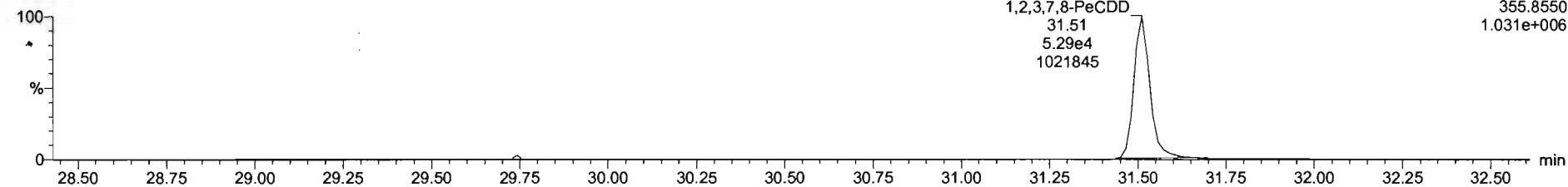
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**1,2,3,7,8-PeCDD**

200528R2\_3

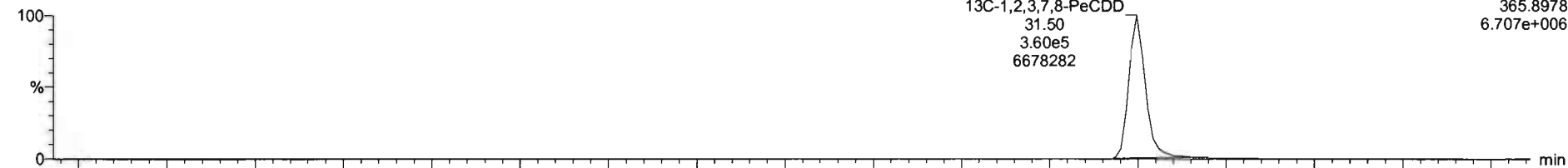


200528R2\_3

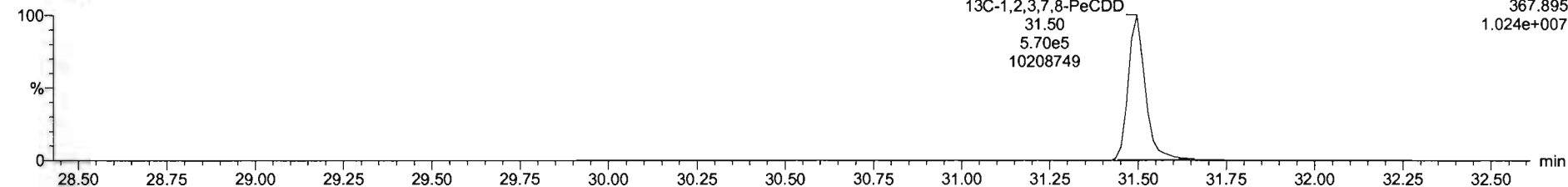


**13C-1,2,3,7,8-PeCDD**

200528R2\_3



200528R2\_3



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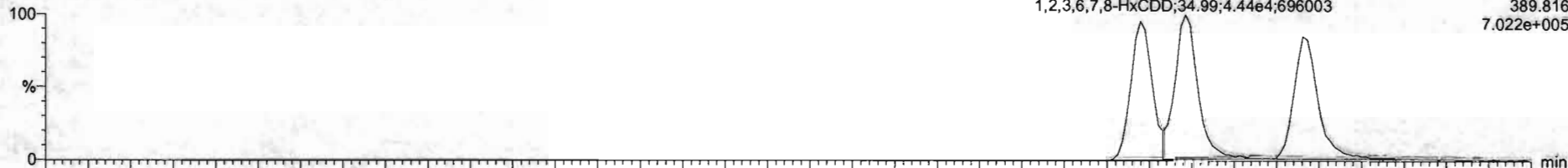
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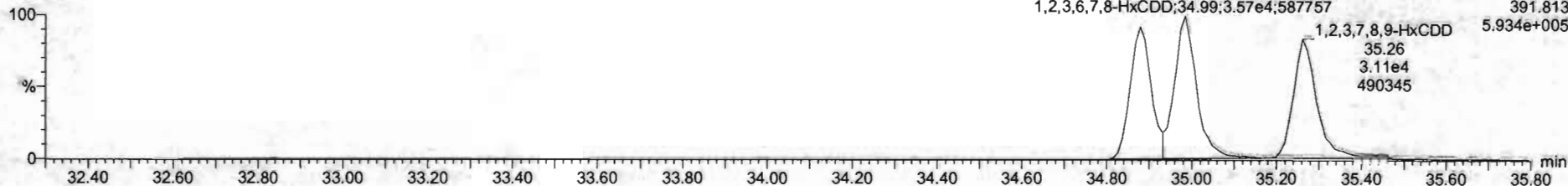
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**1,2,3,4,7,8-HxCDD**

200528R2\_3

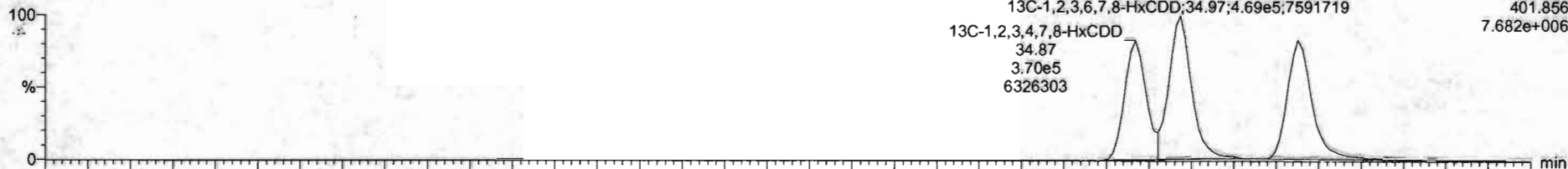


200528R2\_3

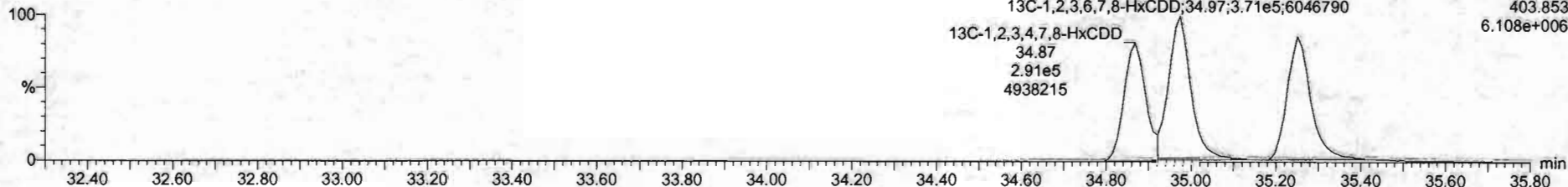


**13C-1,2,3,4,7,8-HxCDD**

200528R2\_3



200528R2\_3



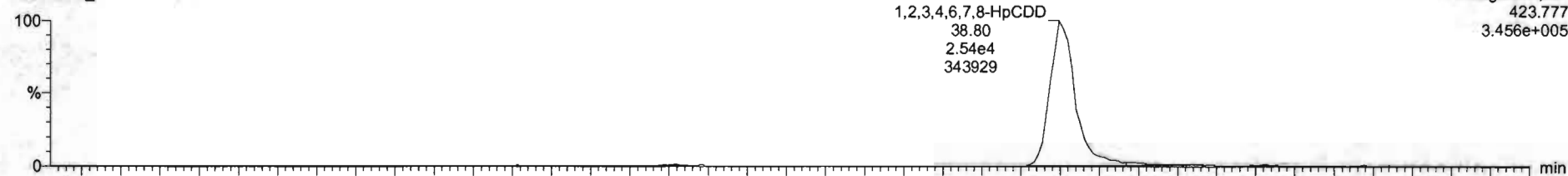
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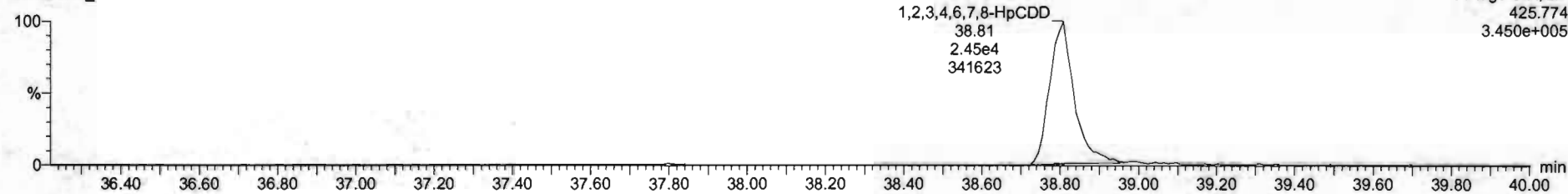
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_3

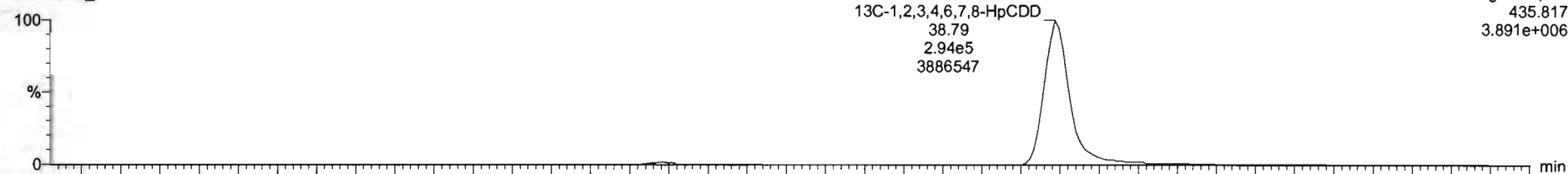


200528R2\_3

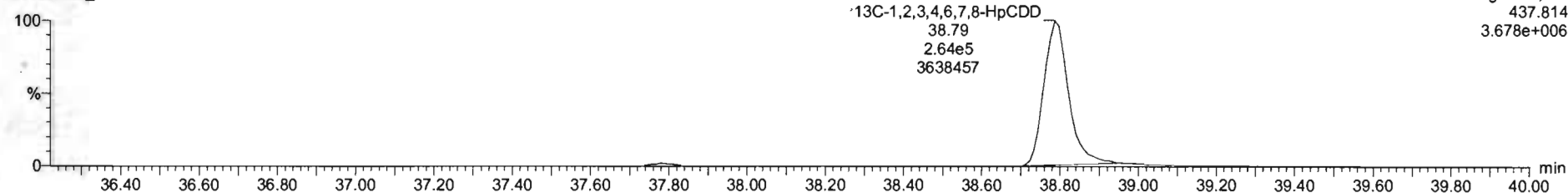


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_3



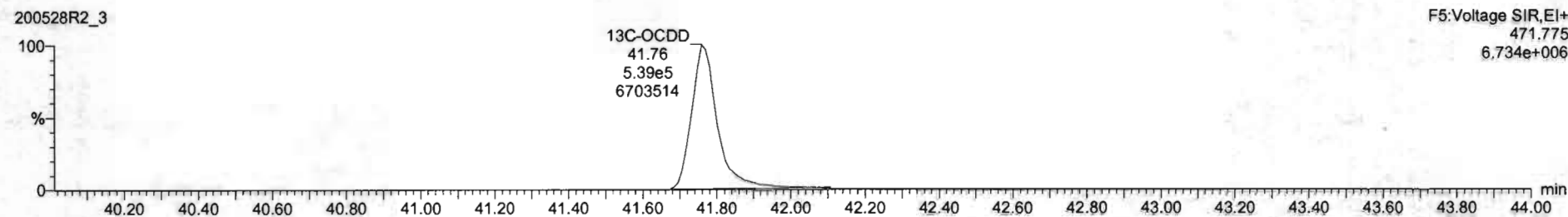
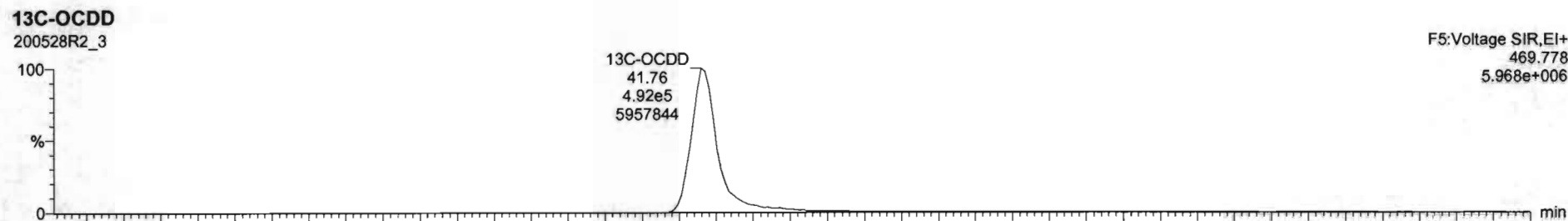
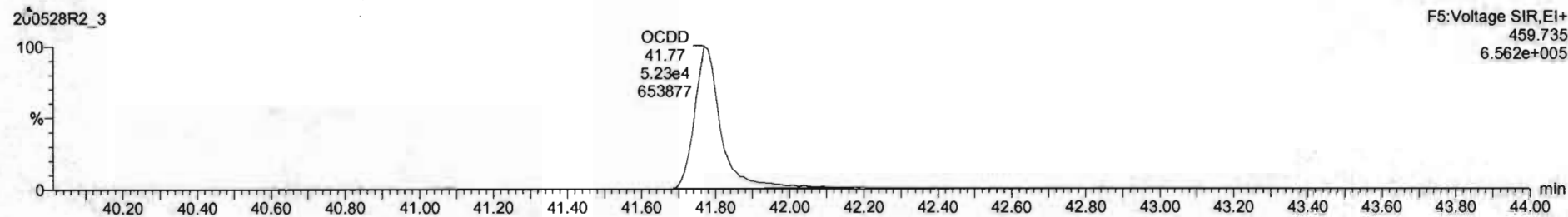
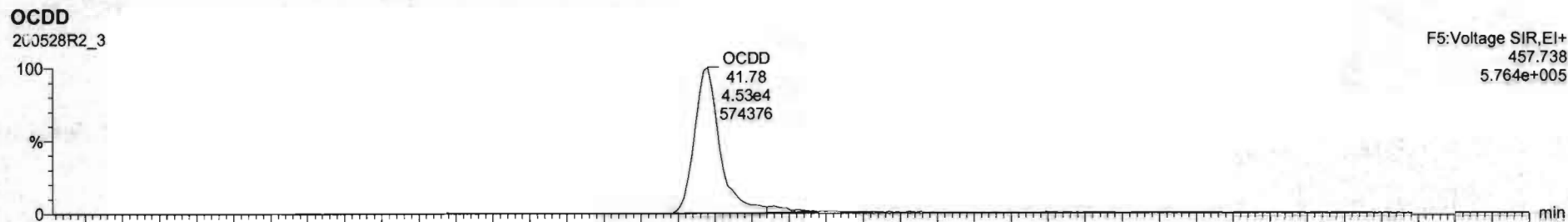
200528R2\_3



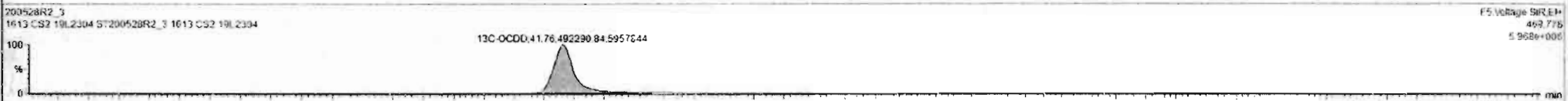
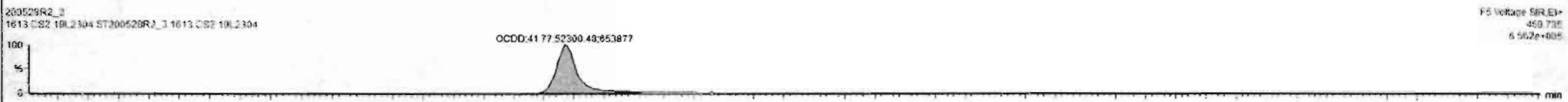
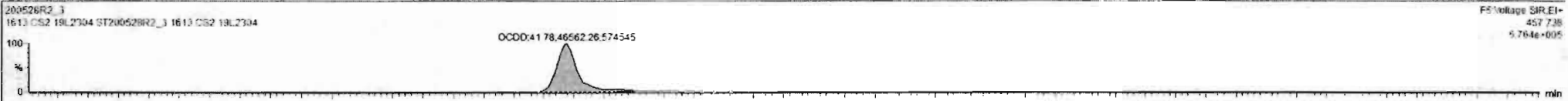
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Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



Name	Resp	RA	n/y	RHF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.40e4	0.30	NO	0.8983	1.000	26.57	1.001	2.05	103	0.0278	2.96
2 1,2,3,7,8-PeCDD	5.50e4	0.63	NO	0.9081	1.000	31.51	1.000	10.2	102	0.0400	10.2
3 1,2,3,4,7,8-HxCDD	6.94e4	1.24	NO	1.0324	1.000	34.88	1.000	10.2	102	0.0561	10.2
4 1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8523	1.000	34.99	1.000	10.7	107	0.0559	10.7
5 1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.8265	1.000	35.26	1.000	10.5	105	0.0679	10.5
6 1,2,3,4,6,7,8-HpCDD	4.59e4	1.93	NO	0.8639	1.000	38.50	1.000	10.4	104	0.0797	10.4
7 OCDD	9.65e4	0.39	NO	0.9136	1.000	41.76	1.000	21.0	105	0.109	21.0
8 2,3,7,8-TCDF	2.67e4	0.74	NO	0.7510	1.000	26.88	1.001	1.97	96.6	0.0321	1.97
9 1,2,3,7,8-PeCDF	1.31e5	1.55	NO	0.8925	1.000	30.23	1.000	10.7	107	0.0517	10.7
10 2,3,4,7,8-PeCDF	1.34e5	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11 1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.81	1.001	10.6	106	0.0661	10.6
12 1,2,3,6,7,8-HxCDF	5.20e4	1.28	NO	0.8892	1.000	34.12	1.000	10.3	103	0.0595	10.3
13 2,3,4,6,7,8-HxCDF	6.53e4	1.25	NO	0.9341	1.000	34.71	1.000	10.5	105	0.0860	10.5
14 1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8707	1.000	35.62	1.000	10.3	103	0.0961	10.3
15 1,2,3,4,6,7,8-HpCDF	5.72e4	1.00	NO	0.6734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16 1,2,3,4,7,8,9-HpCDF	4.43e4	1.91	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0861	10.4
17 OCDF	3.85e4	0.66	NO	0.8085	1.000	41.96	1.000	20.6	103	0.0967	20.6
18 13C-2,3,7,8-TCDD	1.31e6	0.79	NO	1.1583	1.000	26.54	1.025	39.3	89.6	0.0659	
19 13C-1,2,3,7,8-PeCDD	9.29e5	0.63	NO	0.8450	1.000	31.50	1.216	86.8	86.8	0.123	
20 13C-1,2,3,4,7,8-HxCDD	6.61e5	1.27	NO	0.7790	1.000	34.87	1.014	87.0	87.0	0.189	
21 13C-1,2,3,6,7,8-HxCDD	6.39e5	1.26	NO	1.0167	1.000	34.97	1.017	84.7	84.7	0.145	



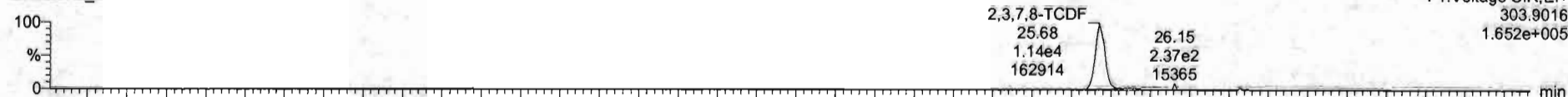
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

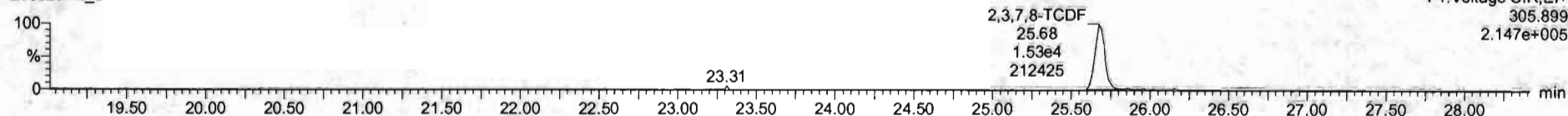
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**2,3,7,8-TCDF**

200528R2\_3

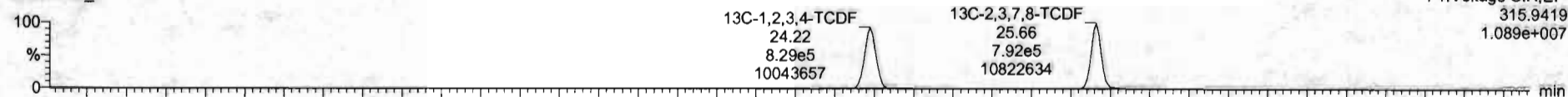


200528R2\_3

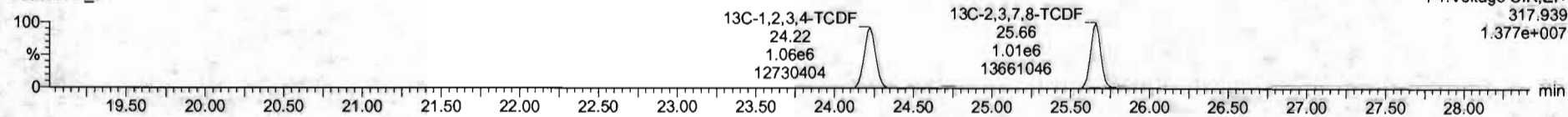


**13C-2,3,7,8-TCDF**

200528R2\_3

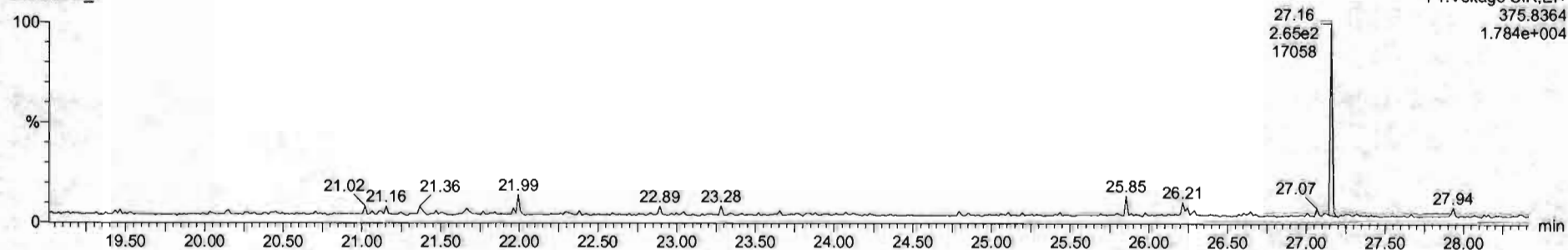


200528R2\_3



**DPE1**

200528R2\_3





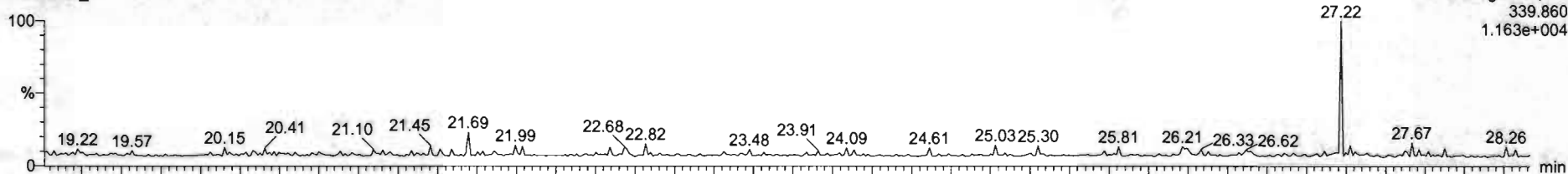
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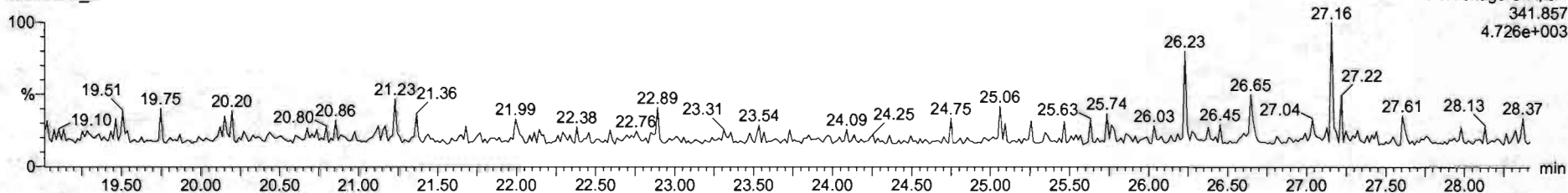
Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans

200528R2\_3

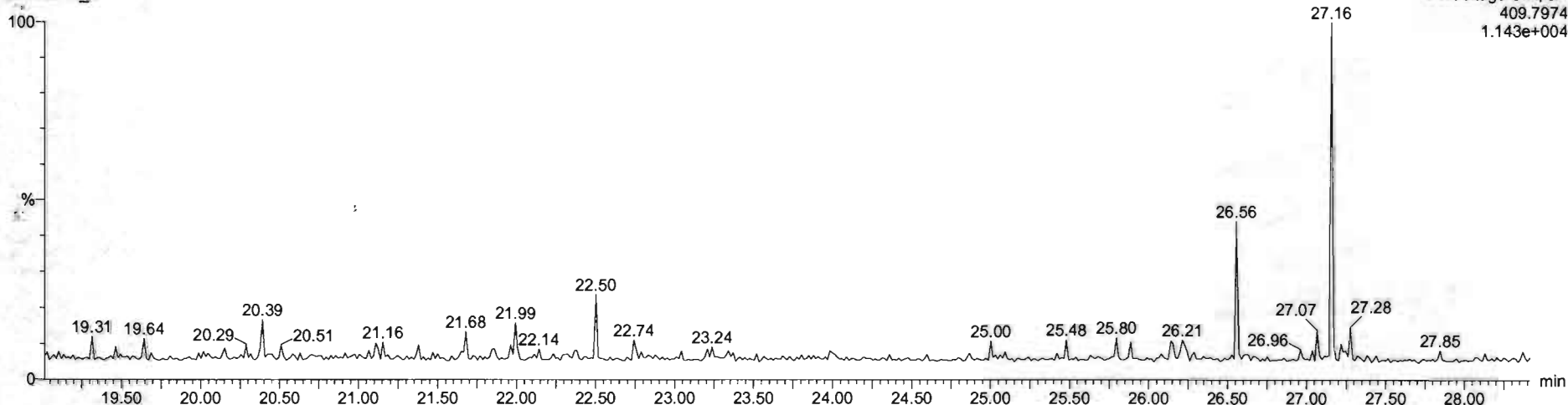


200528R2\_3



DPE6

200528R2\_3



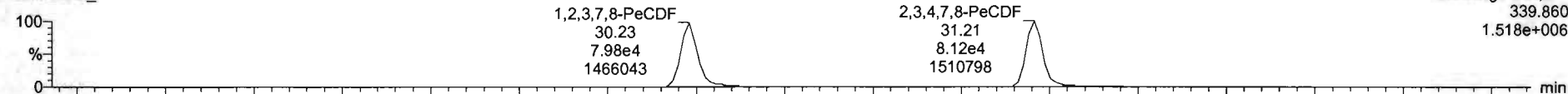
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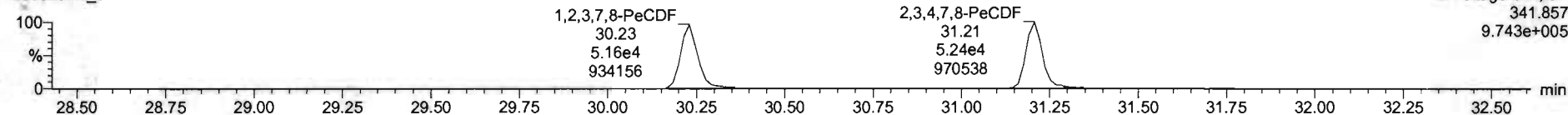
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**1,2,3,7,8-PeCDF**

200528R2\_3

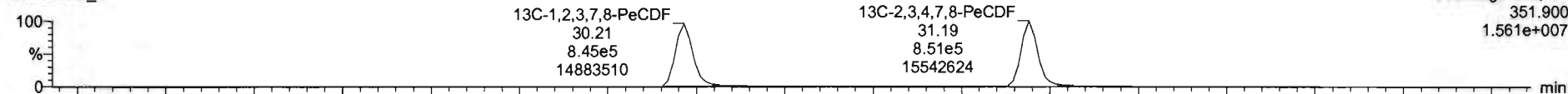


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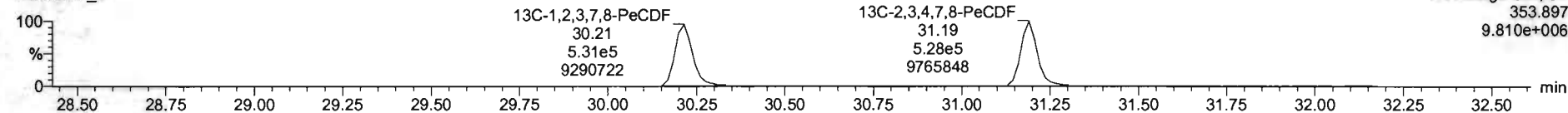


**13C-1,2,3,7,8-PeCDF**

200528R2\_3

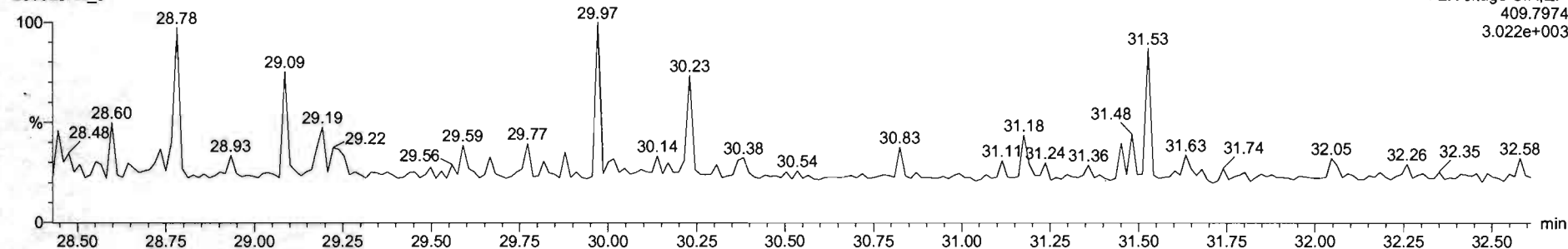


200528R2\_3



**DPE2**

200528R2\_3



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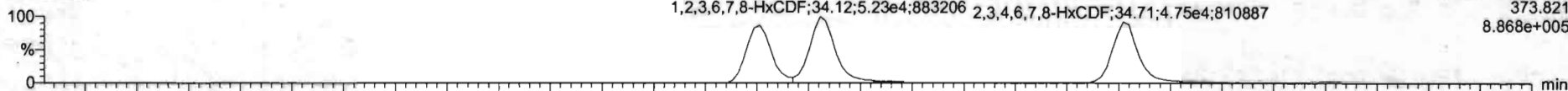
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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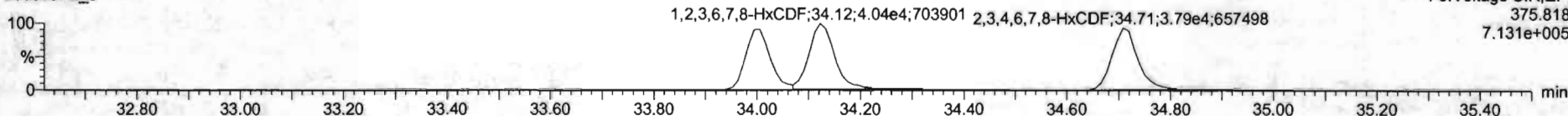
**1,2,3,4,7,8-HxCDF**

200528R2\_3



F3:Voltage SIR,EI+  
373.821  
8.868e+005

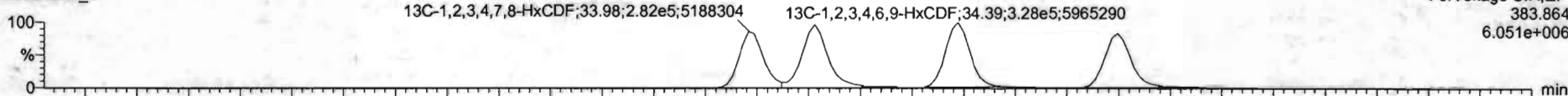
200528R2\_3



F3:Voltage SIR,EI+  
375.818  
7.131e+005

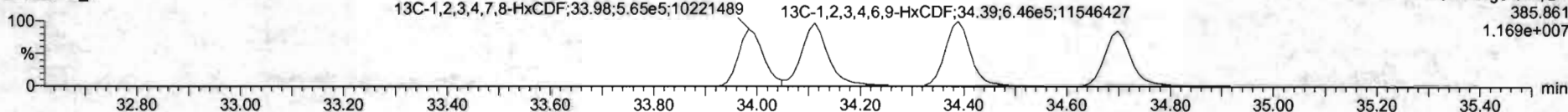
**13C-1,2,3,4,7,8-HxCDF**

200528R2\_3



F3:Voltage SIR,EI+  
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6.051e+006

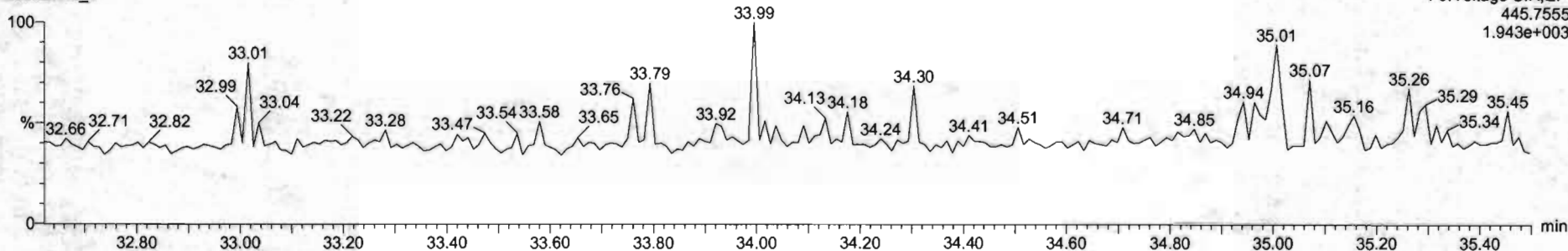
200528R2\_3



F3:Voltage SIR,EI+  
385.861  
1.169e+007

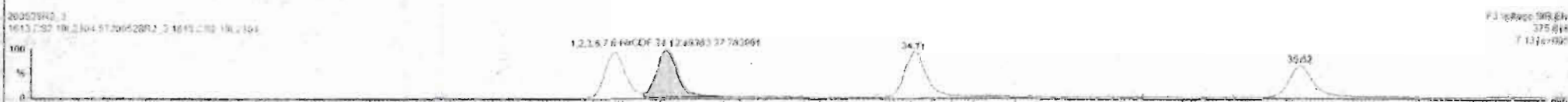
**DPE3**

200528R2\_3



F3:Voltage SIR,EI+  
445.7555  
1.943e+003

#	Name	Resp	Rk	ntf	RRF	weight	BT	NK1	Conc	%Rec	DR	EMPL
1	1,2,3,6,7-CDD	2.58e4	0.39	NO	0.8803	1.000	20.07	1.001	2.08	103	0.0070	2.08
2	1,2,3,7,8-PeCDD	5.58e4	0.43	NO	0.9051	1.000	31.51	1.000	10.2	102	0.0400	10.2
3	1,2,3,4,7,8-HxCDD	5.94e4	1.24	NO	1.0334	1.000	34.88	1.000	16.2	102	0.0501	16.2
4	1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8923	1.000	34.95	1.000	16.7	102	0.0559	16.7
5	1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.9269	1.000	35.26	1.000	16.1	105	0.0670	16.1
6	1,2,3,4,6,7,8-HpCDD	4.99e4	1.02	NO	0.8839	1.000	35.80	1.000	16.4	104	0.0797	16.4
7	OCDD	9.89e4	0.39	NO	0.9136	1.000	41.75	1.000	21.0	105	0.1169	21.0
8	1,2,3,6,7,8-PeCDF	2.87e4	0.74	NO	0.7510	1.000	35.60	1.001	1.91	98.8	0.0211	1.91
9	1,2,3,7,8-PeCDF	1.31e5	1.58	NO	0.8025	1.000	36.23	1.000	10.7	107	0.0217	10.7
10	1,2,3,4,7,8-HxCDF	1.34e5	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11	1,2,3,4,7,8-HpCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	106	0.0611	10.4
12	1,2,3,6,7,8-HpCDF	9.26e4	1.28	NO	0.8852	1.000	34.12	1.000	11.3	103	0.0595	10.3
13	1,2,3,4,6,7,8-HpCDF	8.03e4	1.21	NO	0.9191	1.000	34.71	1.000	10.5	105	0.0693	10.5
14	1,2,3,7,8,9-HpCDF	6.49e4	1.24	NO	0.9707	1.000	35.62	1.000	10.3	102	0.0911	10.3
15	1,2,3,4,6,7,8,9-HpCDF	3.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0881	10.4
17	OCDF	5.58e4	0.36	NO	0.8055	1.000	41.90	1.000	26.3	103	0.0967	26.3
18	1,2,3,6,7,8,9-PeCDD	1.31e5	0.79	NO	1.1562	1.000	29.04	1.025	39.0	39.8	0.0819	39.0
19	1,2,3,6,7,8,9-PeCDF	9.26e4	0.63	NO	0.8499	1.000	31.50	1.216	98.0	98.1	0.123	98.0
20	1,2,3,4,7,8,9-HpCDD	6.61e5	1.27	NO	0.7790	1.000	24.97	1.014	37.0	37.3	0.149	37.0
21	1,2,3,6,7,8,9-HpCDD	6.19e5	1.38	NO	1.0167	1.000	24.97	1.017	64.7	64.7	0.146	64.7







#	Name	Area	FA	obj	RPF	wtVol	RT	RRT	Conc	%Rec	DI	EMPC
1	1,2,3,7,8-HxCDD	2.48e4	0.30	NO	0.8853	1.000	26.17	1.001	3.28	101	0.0079	2.01
2	1,2,3,7,8-PeCDD	5.55e4	0.82	NO	0.9041	1.000	31.21	1.002	10.2	102	0.0430	10.2
3	1,2,3,4,7,8-HxCDD	5.89e4	1.24	NO	1.0234	1.000	34.00	1.000	10.2	102	0.0511	10.2
4	1,2,3,6,7,8-HxCDD	1.01e4	1.24	NO	0.8921	1.000	34.99	1.000	10.7	101	0.0569	10.7
5	1,2,3,7,8,9-HxCDD	7.51e4	1.25	NO	0.8905	1.000	35.20	1.000	10.5	101	0.0670	10.5
6	1,2,3,4,6,7,8-HpCDD	4.99e4	1.03	NO	0.8838	1.000	28.00	1.000	10.4	104	0.0191	10.4
7	COCDD	3.89e4	0.89	NO	0.9130	1.000	41.75	1.000	21.0	105	0.1005	21.0
8	1,2,3,7,8-HxCDF	2.87e4	0.74	NO	0.7510	1.000	26.09	1.001	1.91	98.6	0.0231	1.91
9	1,2,3,7,8-PeCDF	1.31e4	1.55	NO	0.9225	1.000	30.21	1.000	10.7	101	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.38e4	1.55	NO	0.9245	1.000	31.21	1.000	10.5	104	0.0475	10.4
11	1,2,3,4,7,8-HpCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	100	0.0683	10.5
12	1,2,3,6,7,8-HxCDF	4.26e4	1.25	NO	0.9092	1.000	34.12	1.000	10.2	103	0.0595	10.2
13	1,2,3,6,7,8-HpCDF	8.51e4	1.21	NO	0.9341	1.000	34.71	1.000	10.1	100	0.0600	10.1
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8787	1.000	35.81	1.000	10.3	102	0.0601	10.3
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0820	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	0.9128	1.000	39.38	1.000	10.4	104	0.0601	10.4
17	CDF	3.66e4	0.60	NO	0.8985	1.000	41.96	1.000	25.4	103	0.0963	25.4
18	1,2,3,4,6,7,8,9-HxCDF	1.31e4	0.79	NO	1.1560	1.000	26.54	1.025	19.0	99.5	0.0663	
19	1,2,3,6,7,8,9-HxCDF	9.29e4	0.83	NO	0.9420	1.000	31.08	1.216	68.0	96.8	0.1231	
20	1,2,3,4,7,8,9-HpCDD	2.61e4	1.27	NO	0.7798	1.000	34.07	1.034	57.0	97.0	0.1591	
21	1,2,3,4,6,7,8,9-HxCDD	6.20e4	1.26	NO	1.0187	1.000	24.97	1.017	34.7	94.7	0.1451	



Custom Reporting: Select reports to generate

200528R2\_1 CAP NLSM

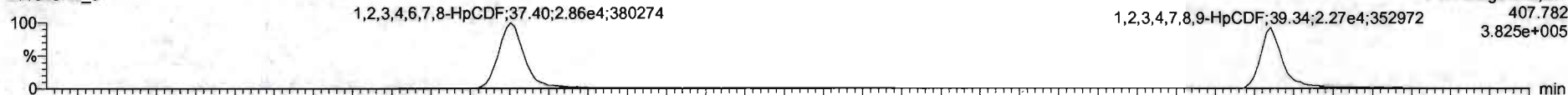
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

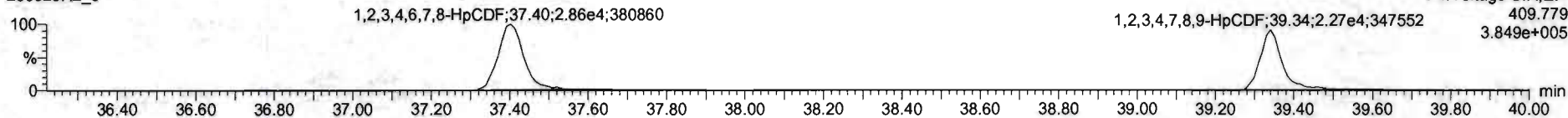
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_3

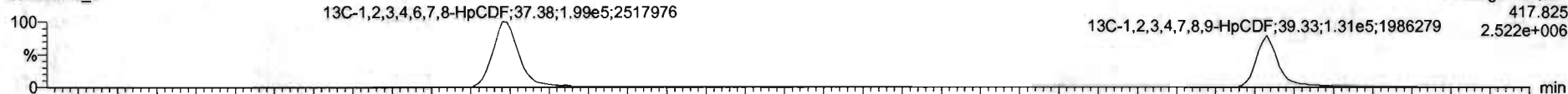


200528R2\_3

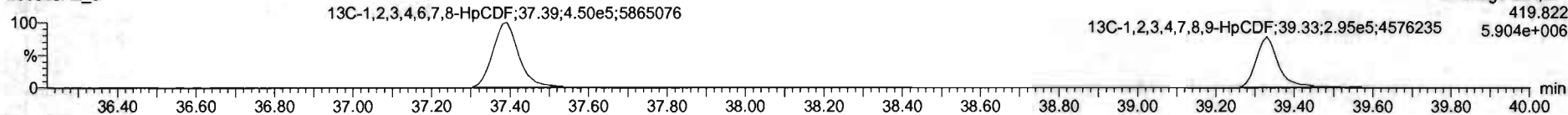


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_3

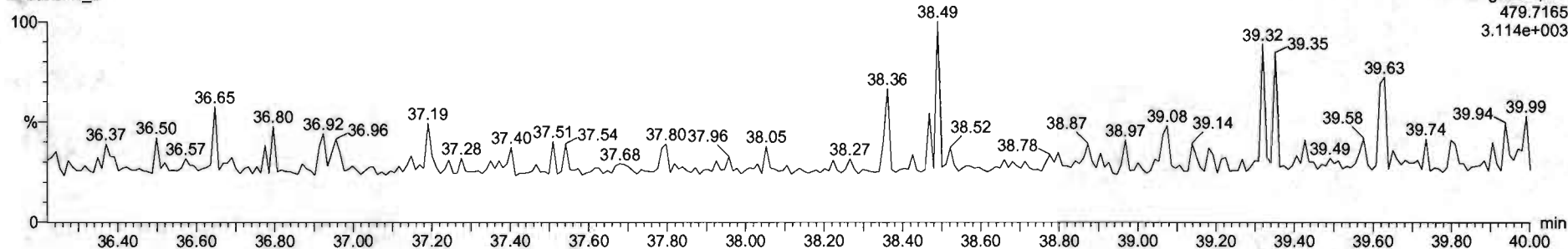


200528R2\_3



**DPE4**

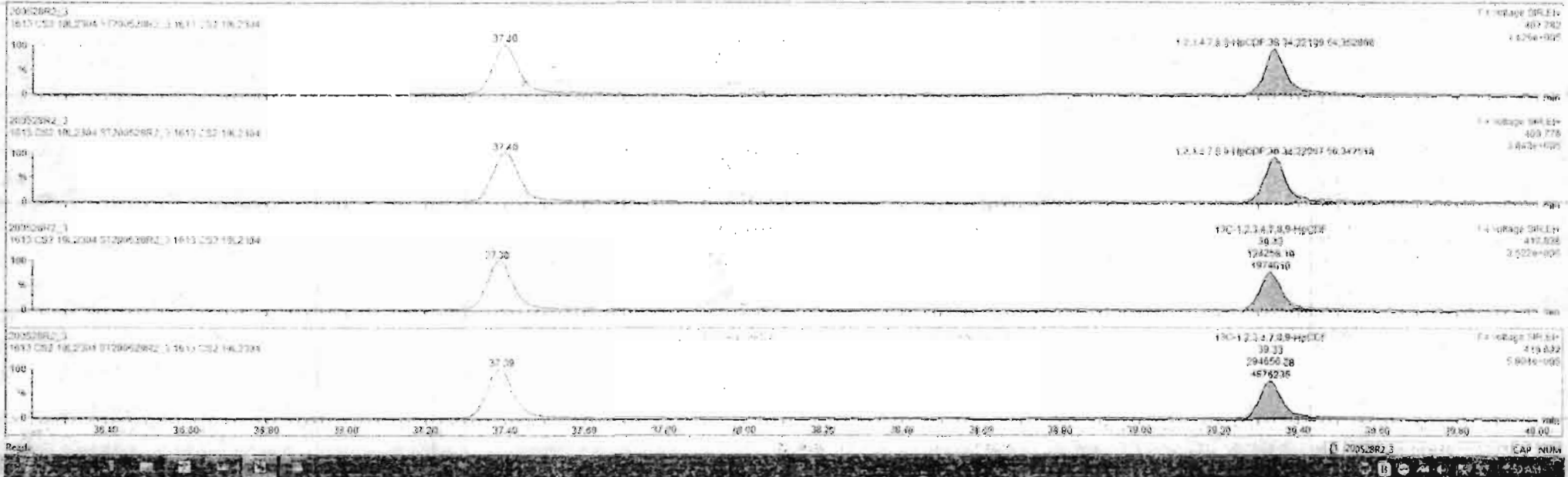
200528R2\_3





1613 CS2 19.2304

#	Name	Desc	RA	RY	RRF	whval	RT	RFI	Conc	MRnc	DL	LOI
1	1,2,3,6-TCDF	2.0e4	0.00	NO	0.0000	1.00	26.07	1.00	2.00	10.7	0.0276	2.30
2	1,2,3,7,8-PeCDF	1.0e4	0.00	NO	0.0001	1.00	31.01	1.00	10.0	10.7	0.0400	10.2
3	1,2,3,4,7,8-HxCDF	0.5e4	1.24	NO	1.0004	1.00	34.05	1.00	10.0	10.2	0.0501	10.2
4	1,2,3,6,7,8-HxCDF	0.01e4	1.04	NO	0.0001	1.00	34.36	1.00	10.7	10.7	0.0559	10.7
5	1,2,3,7,8-HxCDF	2.01e4	1.26	NO	0.0000	1.00	35.26	1.00	10.0	10.0	0.0579	10.0
6	1,2,3,4,6,7,8-HpCDF	1.0e4	1.00	NO	0.0000	1.00	36.00	1.00	10.0	10.0	0.0747	10.0
7	OCDF	0.00e4	0.00	NO	0.0000	1.00	41.75	1.00	21.0	10.5	0.1000	21.0
8	1,2,3,6,7,8-HxCDF	2.01e4	0.74	NO	0.0000	1.00	20.00	1.00	1.00	36.0	0.0001	1.00
9	1,2,3,7,8-HxCDF	1.01e4	1.00	NO	0.0000	1.00	30.21	1.00	10.7	10.7	0.0510	10.7
10	1,2,3,4,7,8-HxCDF	1.0e4	1.00	NO	0.0000	1.00	31.01	1.00	10.4	10.4	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	0.01e4	1.00	NO	0.0000	1.00	34.05	1.00	10.0	10.0	0.0451	10.0
12	1,2,3,6,7,8-HxCDF	1.0e4	1.00	NO	0.0000	1.00	34.12	1.00	10.0	10.0	0.0505	10.0
13	1,2,4,7,8-HxCDF	0.00e4	1.00	NO	0.0000	1.00	34.71	1.00	10.0	10.0	0.0400	10.0
14	1,2,3,7,8-HxCDF	0.00e4	1.04	NO	0.0000	1.00	31.02	1.00	10.0	10.0	0.0001	10.0
15	1,2,3,4,6,7,8-HpCDF	1.0e4	1.00	NO	0.0000	1.00	37.40	1.00	10.0	10.0	0.0620	10.0
16	1,2,3,4,7,8,9-HpCDF	4.03e4	1.00	NO	0.0000	1.00	39.34	1.00	10.0	10.0	0.0601	10.0
17	OCDF	0.0e+0	0.00	NO	0.0000	1.00	41.00	1.00	26.0	10.0	0.0000	26.0
18	1,2,3,4,6,7,8-HpCDF	1.01e4	0.76	NO	1.0000	1.00	26.04	1.00	0.00	0.00	0.0000	0.00
19	1,2,3,4,7,8-HxCDF	0.0e+0	0.00	NO	0.0000	1.00	31.00	1.00	0.00	0.00	0.0000	0.00
20	1,2,3,4,7,8-HxCDF	0.01e4	1.00	NO	0.0000	1.00	34.00	1.00	0.00	0.00	0.0000	0.00
21	1,2,3,4,6,7,8-HpCDF	0.00e4	1.00	NO	1.0000	1.00	34.00	1.00	0.00	0.00	0.0000	0.00

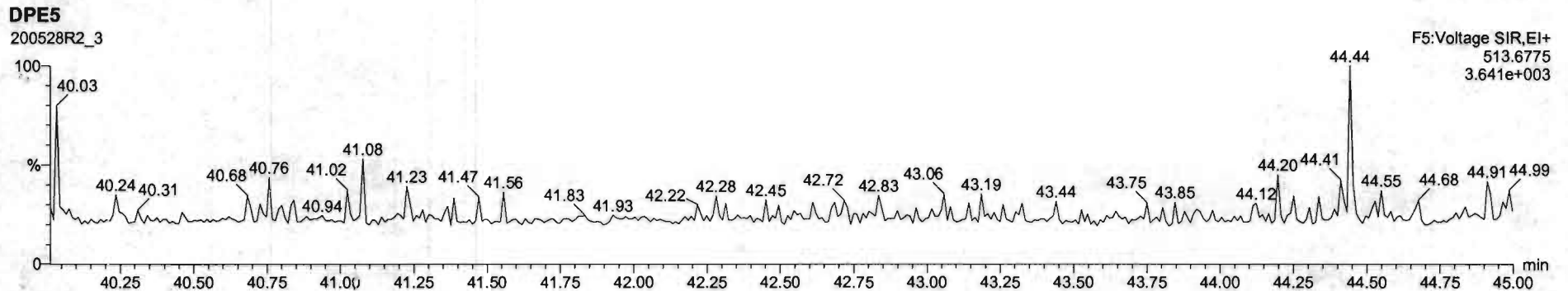
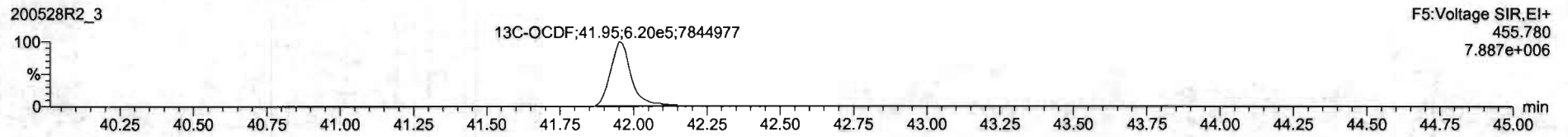
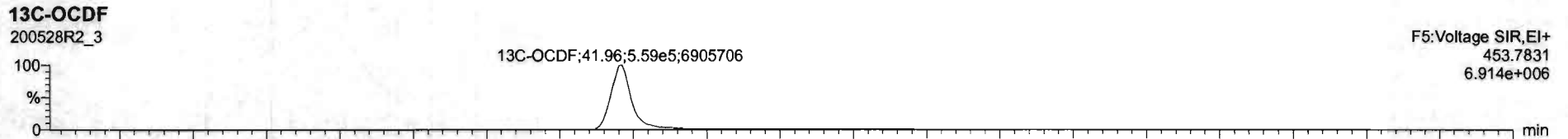
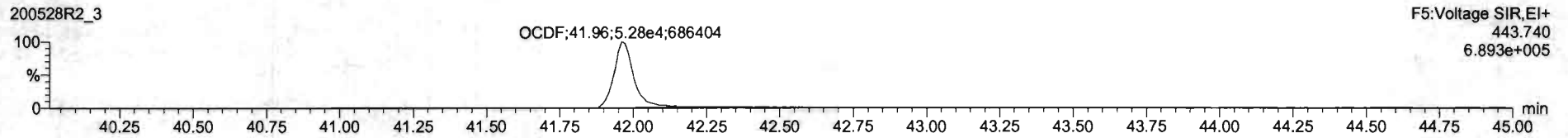
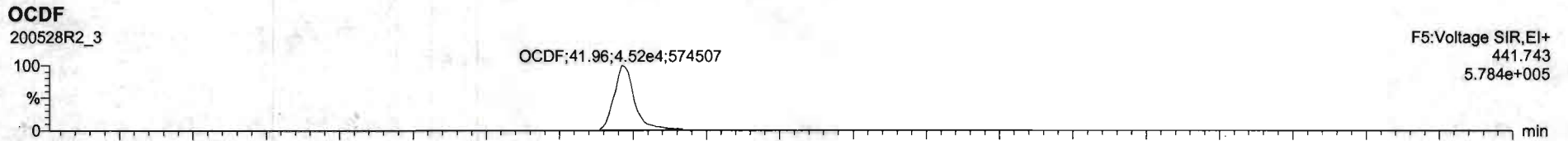




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Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

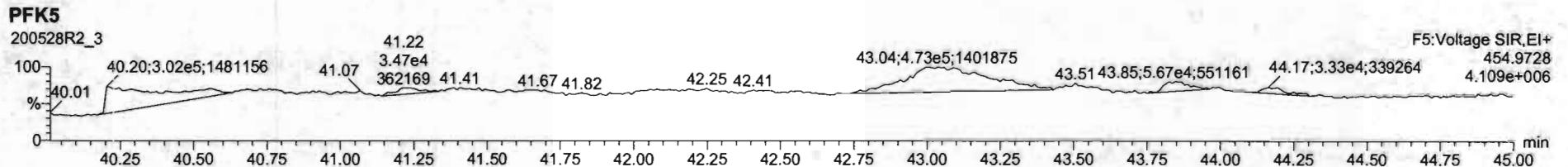
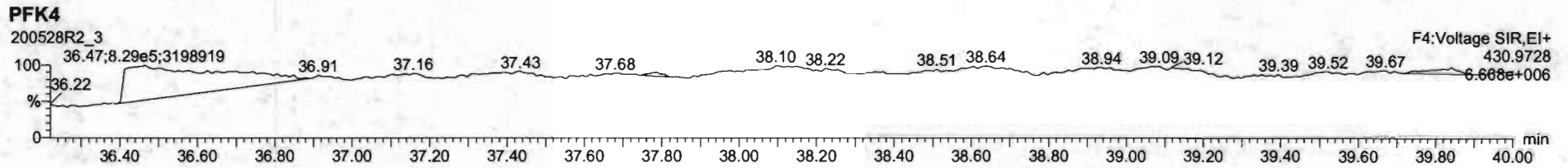
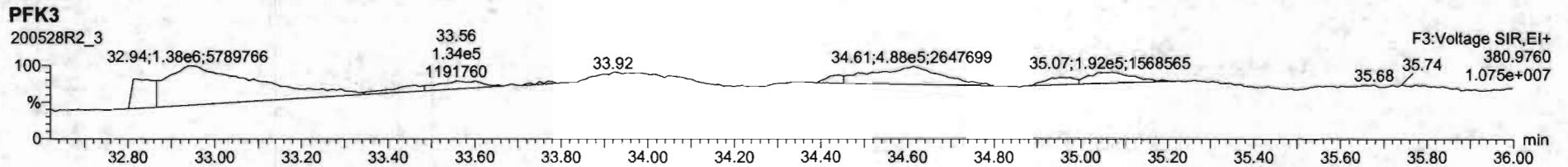
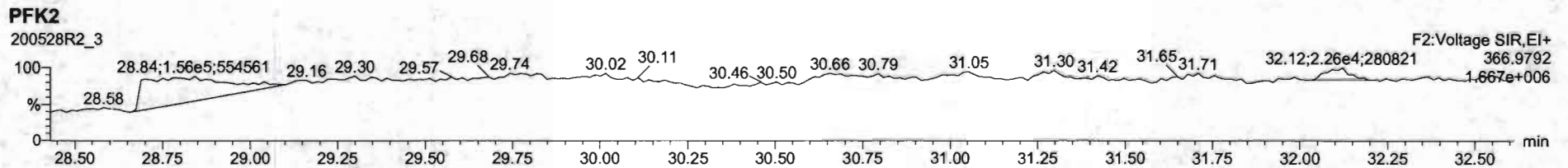
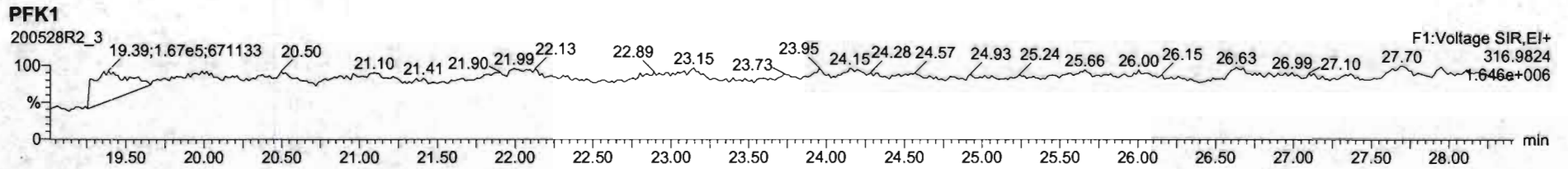


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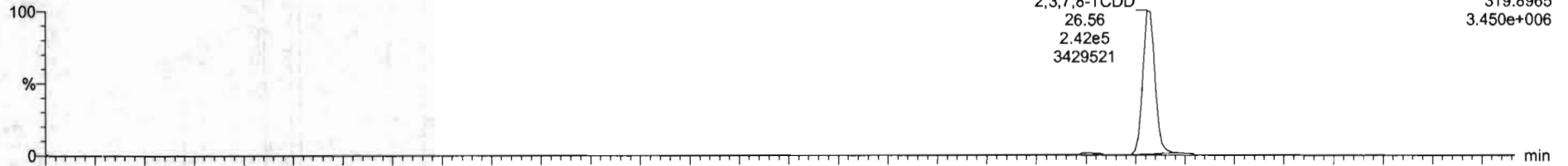
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**2,3,7,8-TCDD**

200528R2\_4

2,3,7,8-TCDD  
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2.42e5  
3429521

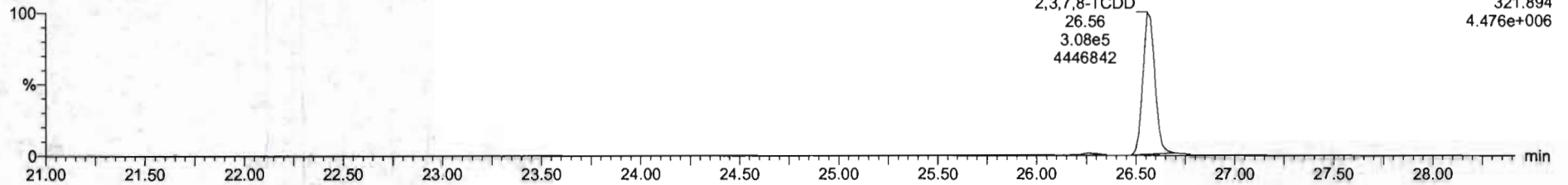
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3.450e+006



200528R2\_4

2,3,7,8-TCDD  
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3.08e5  
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F1:Voltage SIR,EI+  
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4.476e+006



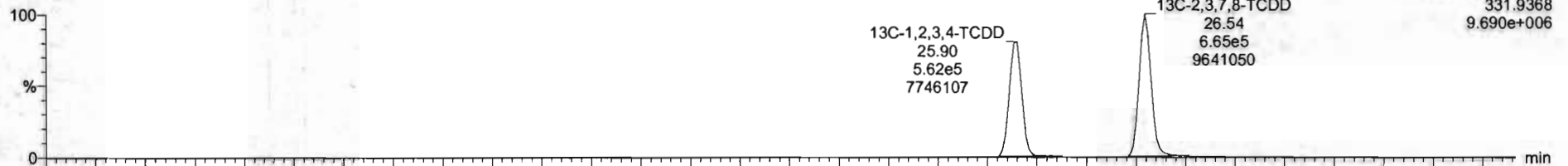
**13C-2,3,7,8-TCDD**

200528R2\_4

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5.62e5  
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13C-2,3,7,8-TCDD  
26.54  
6.65e5  
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F1:Voltage SIR,EI+  
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9.690e+006

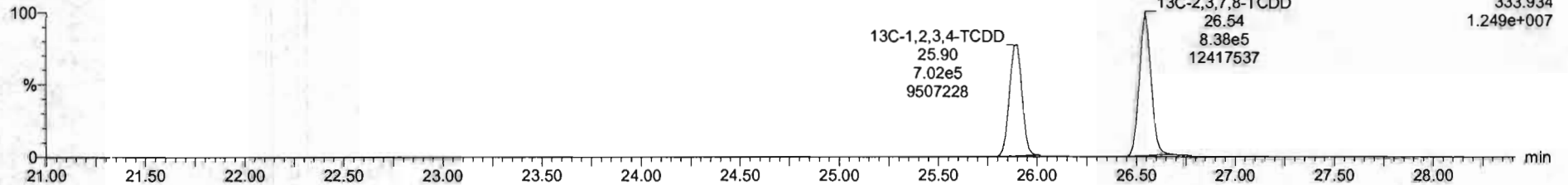


200528R2\_4

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333.934  
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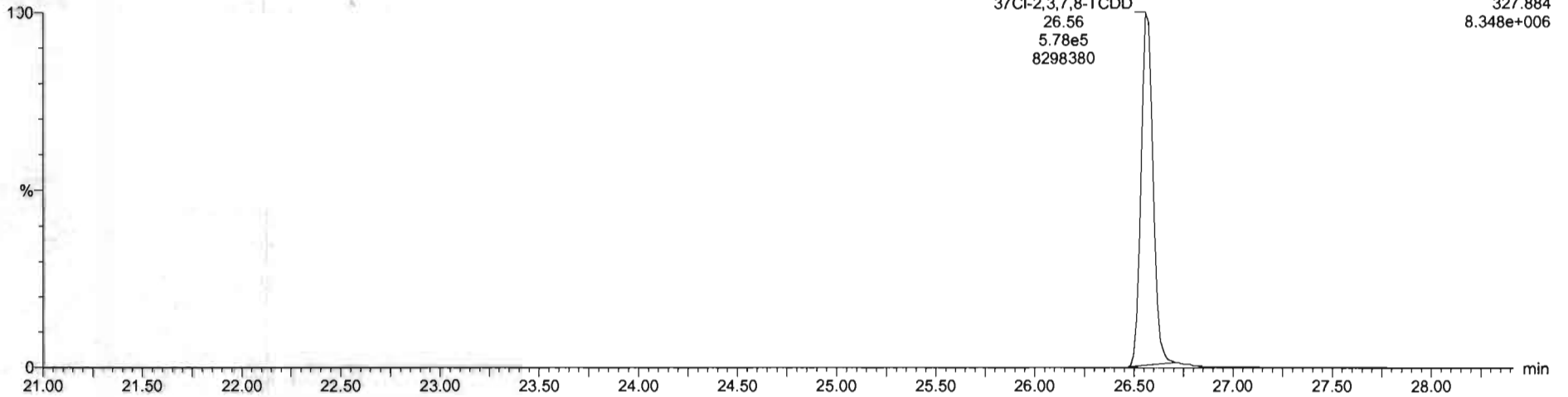
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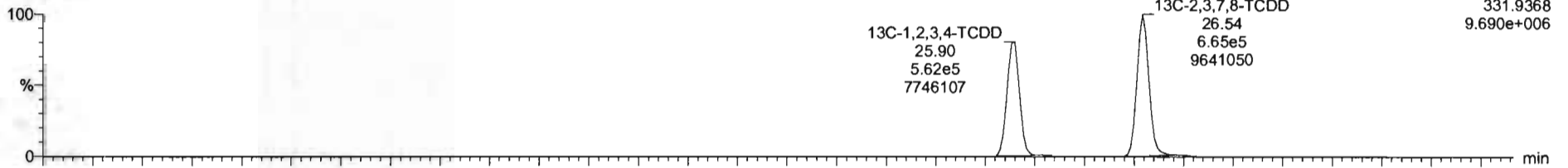
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200528R2\_4

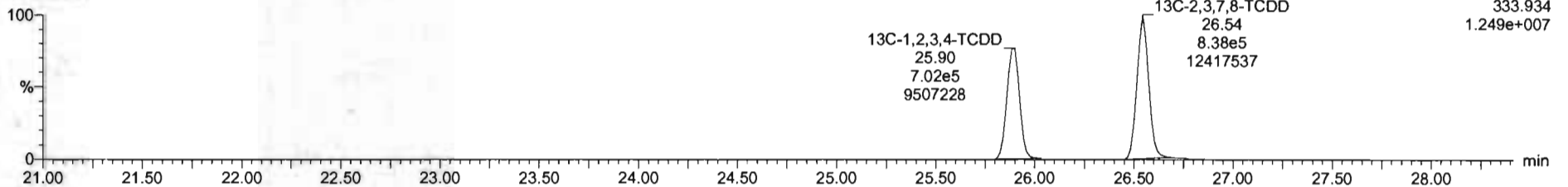


**13C-1,2,3,4-TCDD**

200528R2\_4



200528R2\_4





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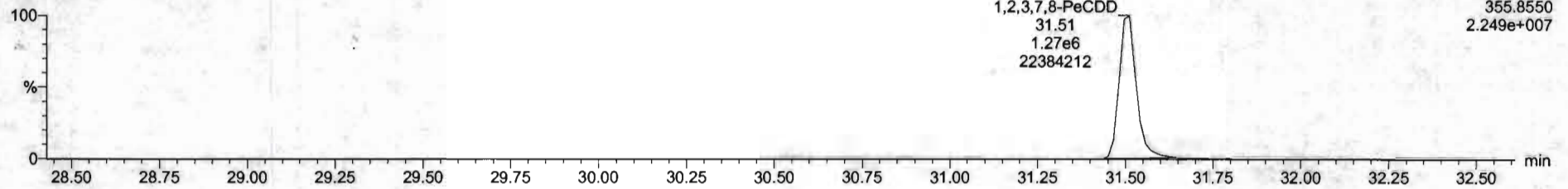
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**1,2,3,7,8-PeCDD**

200528R2\_4

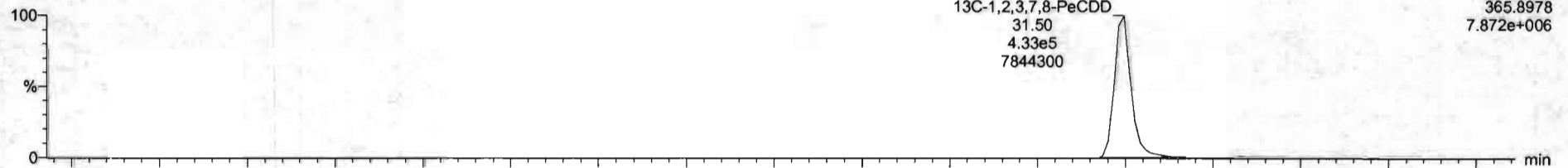


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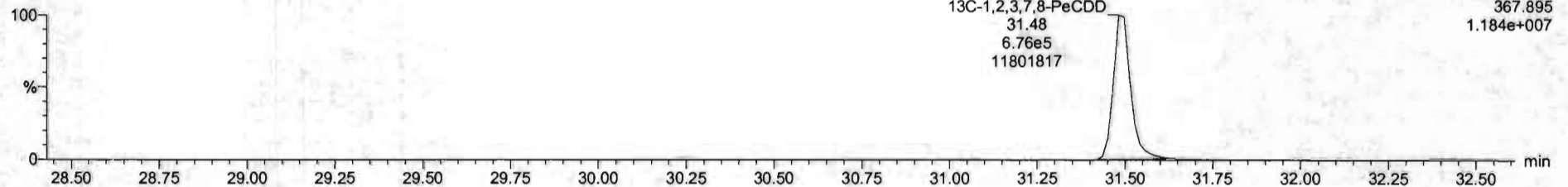


**13C-1,2,3,7,8-PeCDD**

200528R2\_4



200528R2\_4



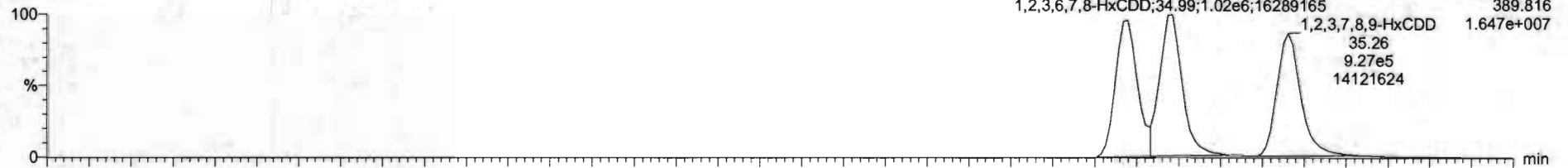
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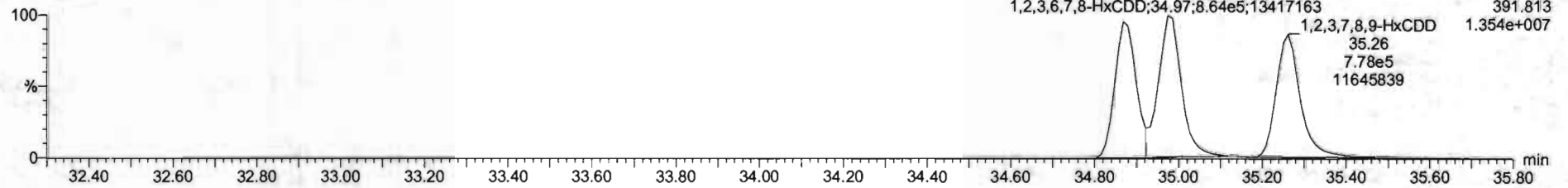
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1,2,3,4,7,8-HxCDD

200528R2\_4

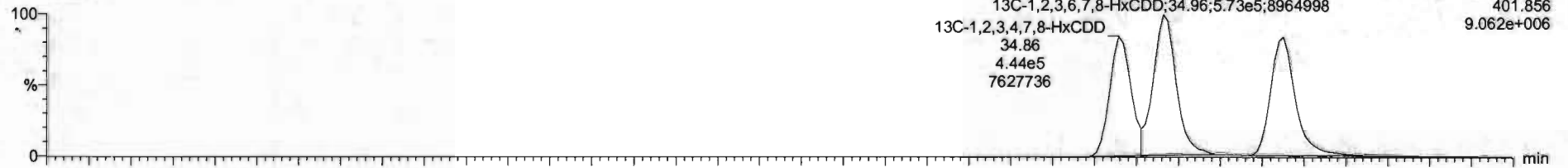


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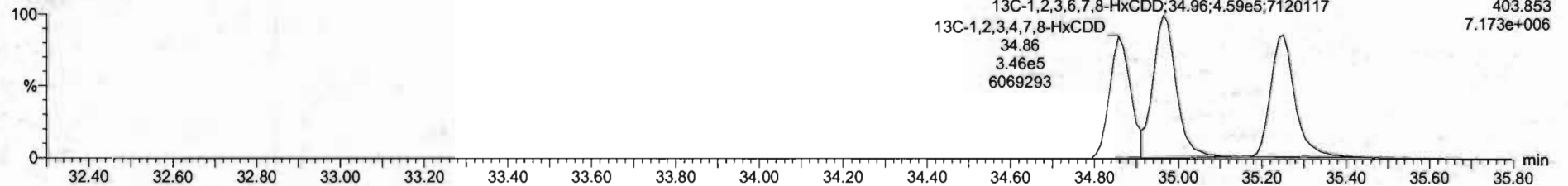


13C-1,2,3,4,7,8-HxCDD

200528R2\_4

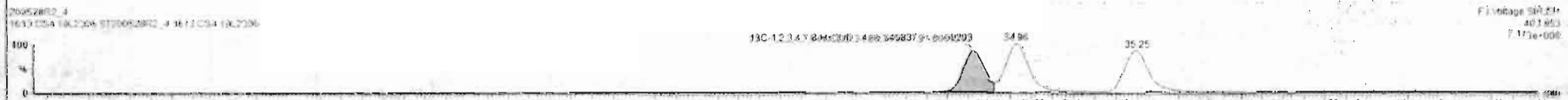
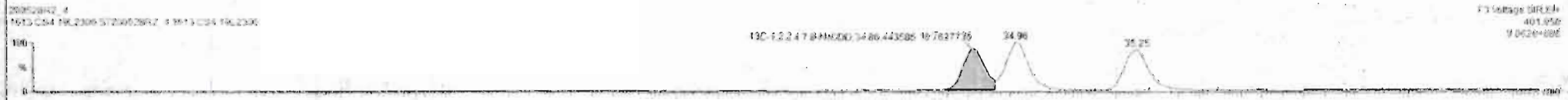
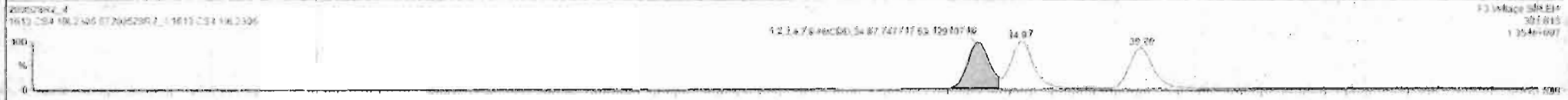


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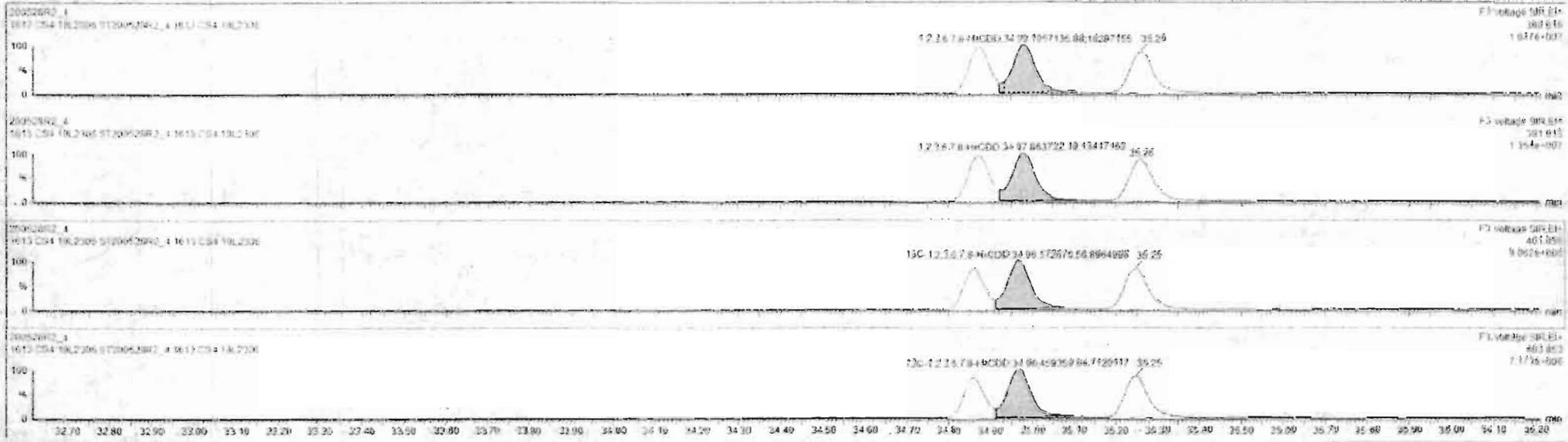


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2	1.2.3.7.8-HxCDD	2.25e6	0.83	NO	0.6091	1.000	31.51	1.000	205	102	0.0837	205
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0394	1.000	34.86	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8921	1.000	34.98	1.001	200	104	0.111	200
5	1.2.3.7.8.9-HxCDD	1.70e6	1.26	NO	0.8865	1.000	35.25	1.000	210	105	0.113	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.6839	1.000	36.80	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.27	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	1.2.3.6-TCDF	6.52e5	0.76	NO	0.7019	1.000	25.88	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	28.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	3.50e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.223	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8812	1.000	33.12	1.001	206	103	0.203	206
13	2.3.4.6.7.8-HxCDF	2.96e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.26	NO	0.8701	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8065	1.000	41.96	1.000	402	100	0.171	402
18	13C-1.2.3.7.8-TCDD	1.58e6	0.79	NO	1.1563	1.000	26.64	1.025	103	103	0.164	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.84	NO	0.8489	1.000	31.58	1.216	103	103	0.138	
20	13C-1.2.3.4.7.8-HxCDD	7.89e5	1.28	NO	0.7736	1.000	34.96	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.07e6	1.25	NO	1.0127	1.000	34.96	1.017	104	104	0.121	

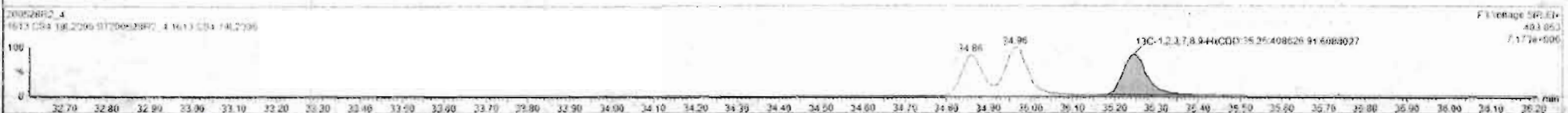
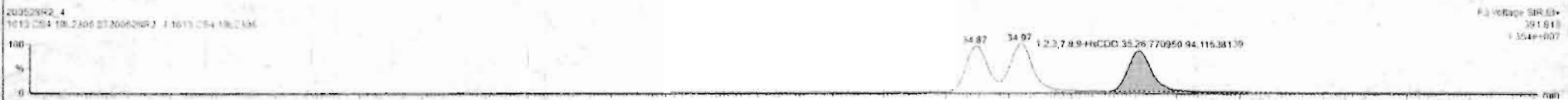




#	Name	Keep	RA	RY	RF	WRet	RT	RRT	Conc	WRet	DL	EMPU
1	1.2.3.7.8-TCDF	1.50e6	0.18	NO	0.0061	1.000	36.96	1.001	41.2	101	0.124	41.1
2	1.2.3.7.8-HxCDD	2.56e6	0.43	NO	0.0041	1.000	31.51	1.000	205	102	0.0017	204
3	1.2.3.7.8-HxCDF	1.87e6	1.23	NO	1.0734	1.000	34.80	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.0020	1.000	34.96	1.001	394	104	0.119	395
5	1.2.3.7.8-HxCDF	1.19e6	1.20	NO	0.0065	1.000	35.26	1.000	210	102	0.133	210
6	1.2.3.4.5.7.8-HxCDD	1.25e6	1.02	NO	0.0033	1.000	36.60	1.000	211	104	0.218	211
7	OCDD	2.45e6	0.97	NO	0.0136	1.000	41.77	1.000	307	09.4	0.192	307
8	1.2.3.7.8-TCDF	4.12e6	0.76	NO	0.0140	1.000	25.88	1.001	42.0	107	0.123	42.0
9	1.2.3.7.8-HxCDF	1.19e6	1.14	NO	0.0025	1.000	30.23	1.000	203	101	0.100	203
10	1.2.3.7.8-HxCDF	1.08e6	1.14	NO	0.0346	1.000	31.21	1.000	204	102	0.169	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.0041	1.000	33.95	1.000	200	104	0.221	200
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.0092	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.8.7.8-HxCDF	2.68e6	1.19	NO	0.0041	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8-HxCDF	1.68e6	1.20	NO	0.0307	1.000	35.62	1.001	208	104	0.215	208
15	1.2.3.4.5.7.8-HxCDF	1.43e6	0.99	NO	0.0734	1.000	37.59	1.000	213	106	0.213	213
16	1.2.3.4.7.8.5-HxCDF	1.13e6	0.90	NO	1.0120	1.000	30.33	1.000	214	107	0.227	214
17	OCDF	2.34e6	0.97	NO	0.0254	1.000	41.96	1.000	400	100	0.171	400
18	1.2.3.7.8-TCDD	1.19e6	0.79	NO	1.1563	1.000	26.94	1.000	163	103	0.114	163
19	1.2.3.1.2.7.8-HxCDD	1.11e6	0.84	NO	0.0460	1.000	31.00	1.210	103	103	0.176	103
20	1.2.3.1.2.4.7.8-HxCDD	7.39e6	1.25	NO	0.7790	1.000	34.06	1.014	103	103	0.172	103
21	1.2.3.1.2.3.7.8-HxCDD	1.02e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.171	104



#	Name	Resp	RA	ny	RRF	wlvol	RT	RRT	Coef	%Rec	DL	104PC
1	1,2,3,7,8-TCDF	2.56e6	0.76	NO	0.8863	1.000	26.56	1.091	41.7	102	0.124	41.4
2	1,2,3,7,8-PeCDD	2.36e6	0.83	NO	0.8051	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,4,7,8-HxCDF	1.67e6	1.22	NO	1.0334	1.000	34.55	1.001	204	102	0.115	204
4	1,2,3,7,8-HxCDF	1.92e6	1.22	NO	0.9923	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDF	1.70e6	1.20	NO	0.6868	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDF	1.25e6	1.62	NO	0.8830	1.000	38.50	1.000	211	105	0.123	211
7	COCDF	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.100	397
8	1,2,3,6,7,8-HxCDF	6.53e6	0.76	NO	0.7510	1.000	25.68	1.001	42.0	101	0.123	42.0
9	1,2,3,7,8-HxCDF	2.84e6	1.54	NO	0.8920	1.000	30.21	1.000	207	101	0.119	207
10	1,2,3,7,8-HpCDF	2.06e6	1.54	NO	0.9345	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.67e6	1.16	NO	0.8845	1.000	33.95	1.000	202	104	0.221	202
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8292	1.000	34.12	1.001	206	103	0.203	206
13	1,2,3,6,7,8-HpCDF	2.00e6	1.19	NO	0.9241	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8157	1.000	35.42	1.001	203	104	0.313	203
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0126	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	3.54e6	0.87	NO	0.8095	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8-TCDF	1.56e6	0.75	NO	1.1567	1.000	28.54	1.025	103	103	0.164	
19	1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8460	1.000	31.50	1.216	103	103	0.130	
20	1,2,3,4,7,8-HxCDF	7.88e6	1.28	NO	0.7798	1.000	34.96	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HpCDD	1.03e6	1.35	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



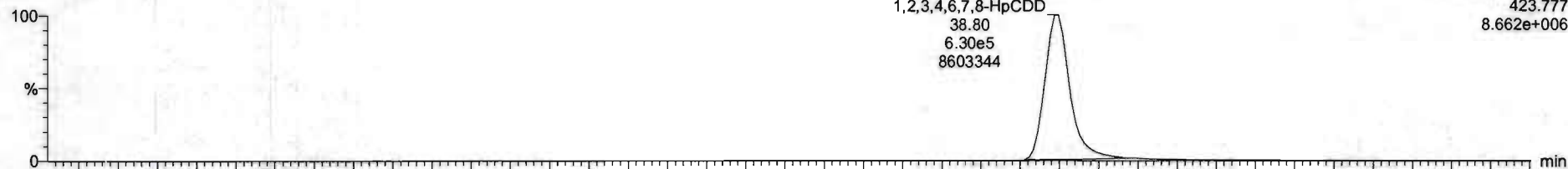
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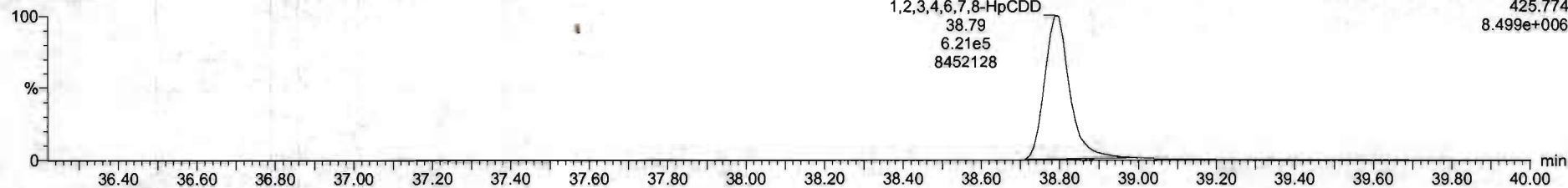
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_4

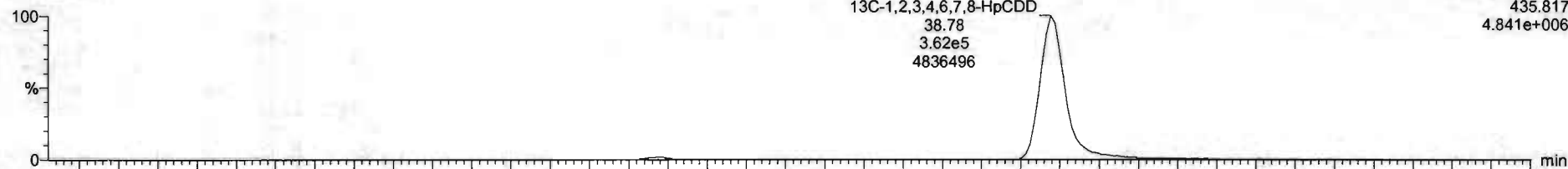


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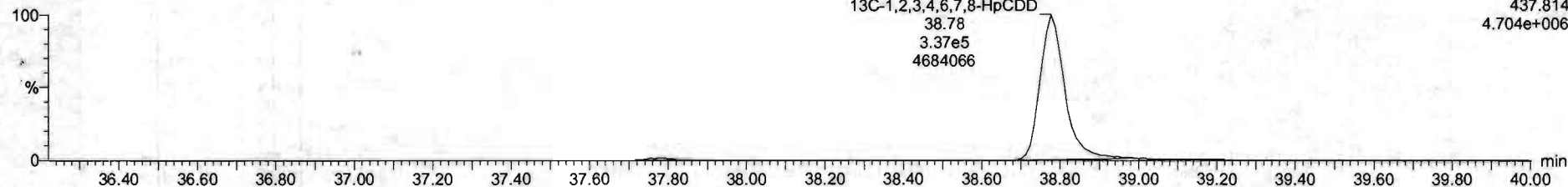


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_4



200528R2\_4





Name	Resp	RA	n/y	RRF	Intval	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.50e6	0.76	NO	0.8983	1.000	36.96	1.001	41.2	103	0.124	41.2
2 1,2,3,7,8-PeCDD	2.06e6	0.83	NO	0.8081	1.000	31.51	1.000	205	102	0.6837	205
3 1,2,3,4,7,8-HxCDD	1.67e6	1.23	NO	1.0334	1.000	34.80	1.001	204	102	0.115	204
4 1,2,3,6,7,8-HxCDD	1.92e6	1.22	NO	0.8927	1.000	34.99	1.001	209	104	0.111	209
5 1,2,3,7,8,9-HxCDD	1.76e6	1.26	NO	0.8665	1.000	35.25	1.000	210	105	0.133	210
6 1,2,3,4,6,7,8-HpCDD	1.25e6	1.02	NO	0.8839	1.000	36.80	1.000	211	105	0.210	211
7 OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8 2,3,7,8-TCDF	6.52e6	0.76	NO	0.7510	1.000	29.68	1.001	42.0	107	0.123	42.0
9 1,2,3,7,8-HxCDF	3.94e6	1.54	NO	0.8926	1.000	36.21	1.000	203	101	0.118	203
10 2,3,4,7,8-PeCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11 1,2,3,4,7,8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.221	208
12 1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8062	1.000	34.12	1.001	208	103	0.203	208
13 2,3,4,6,7,8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	103	0.219	207
14 1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.313	208
15 1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16 1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	38.32	1.000	214	107	0.227	214
17 OCDF	2.54e6	0.87	NO	0.8095	1.000	41.96	1.000	402	100	0.171	402
18 1,2,3,7,8-TCDF	1.56e6	0.79	NO	1.1563	1.000	29.54	1.025	103	103	0.164	
19 1,2,3,4,6,7,8-HpCDD	1.11e6	0.64	NO	0.8460	1.000	31.30	1.216	103	103	0.139	
20 1,2,3,4,7,8-HxCDD	7.98e6	1.28	NO	0.7790	1.000	34.86	1.014	103	103	0.172	
21 1,2,3,4,6,7,8-HpCDD	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.131	



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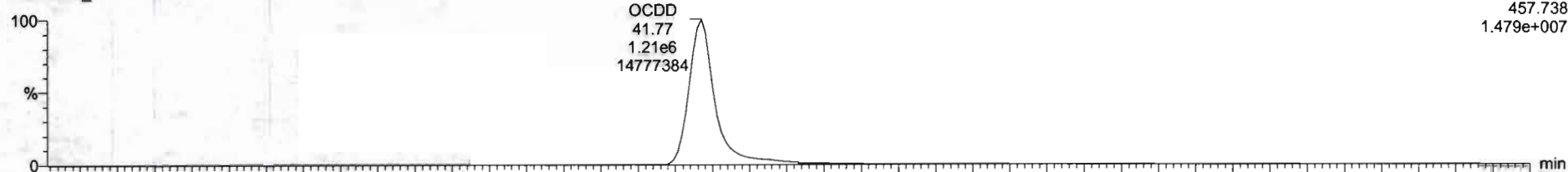
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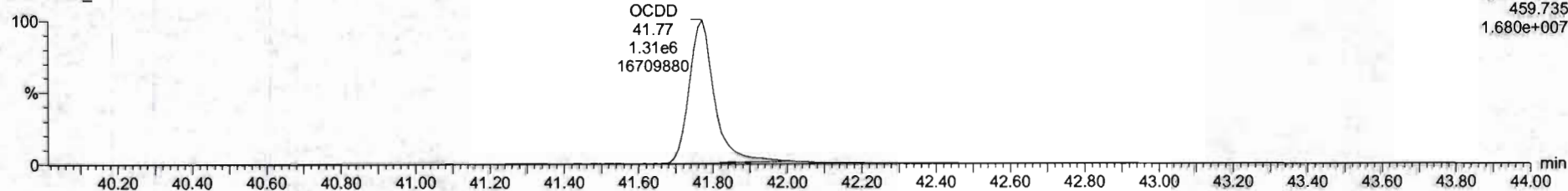
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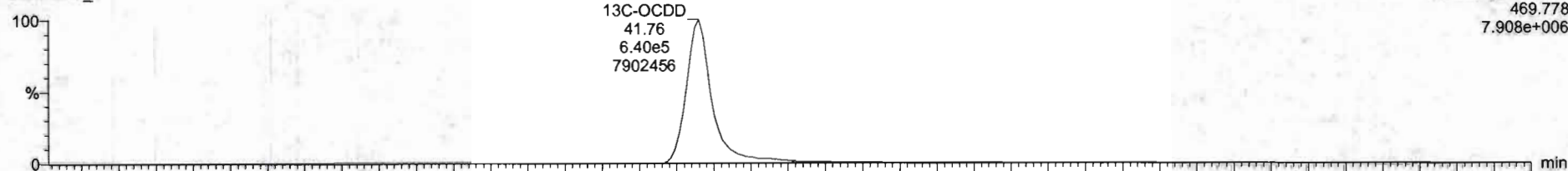
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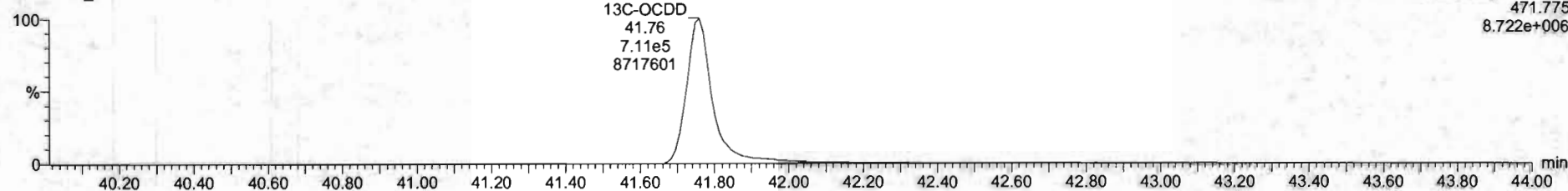
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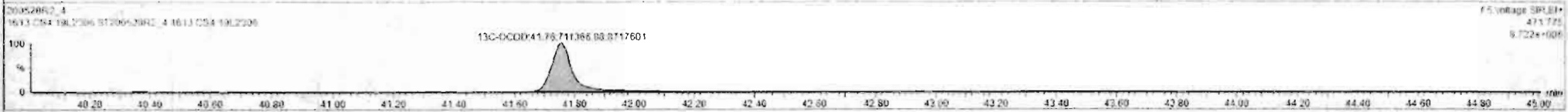
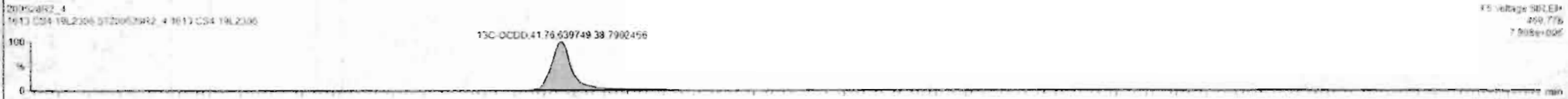
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200528R2\_4



F5: Voltage SIR, EI+  
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8.722e+006

Sl. No.	Name	Resp	RA	inj	RRF	wt/vol	RT	NRT	Conc.	%Rec	DL	SI/PC
1	2.3.7.6-TCDD	3.56e5	0.76	NO	0.8883	1.000	28.56	1.001	41.2	101	0.134	41.2
2	1.2.3.7.5-PeCDD	2.06e5	0.63	NO	0.9051	1.000	31.01	1.000	205	102	0.6837	205
3	1.2.3.4.7.8-HxCD	1.07e5	1.23	NO	1.0334	1.000	34.80	1.001	284	102	0.115	284
4	1.2.3.6.7.8-HxCDD	1.92e5	1.22	NO	0.8923	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.70e5	1.20	NO	0.8669	1.000	35.26	1.000	210	105	0.133	210
6	1.2.3.4.6.7.8-HpCDD	1.25e5	1.02	NO	0.8639	1.000	36.90	1.000	211	105	0.115	211
7	OCDD	2.45e5	0.87	NO	0.9136	1.000	41.77	1.000	307	99.4	0.192	307
8	2.3.7.6-TCDF	4.52e5	0.76	NO	0.7510	1.000	28.56	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-PeCDF	2.94e5	1.54	NO	0.8905	1.000	30.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	1.00e5	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.100	204
11	1.2.3.4.7.8-HxCDF	1.87e5	1.18	NO	0.8545	1.000	33.99	1.000	205	104	0.221	205
12	1.2.3.6.7.8-HxCDF	2.16e5	1.10	NO	0.8062	1.000	34.12	1.001	206	103	0.205	206
13	1.2.3.4.7.8-HxCDF	2.00e5	1.19	NO	0.9383	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e5	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.6.7.8-HpCDF	1.43e5	0.99	NO	0.8734	1.000	37.55	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e5	0.90	NO	1.0126	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e5	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2.3.7.6-TCDD	1.58e5	0.75	NO	1.1583	1.000	28.54	1.025	103	103	0.184	
19	13C-1.2.3.7.8-PeCDD	1.11e5	0.64	NO	0.8490	1.000	31.50	1.216	103	103	0.136	
20	13C-1.2.3.4.7.8-HxCDD	7.88e5	1.28	NO	0.7790	1.000	34.96	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e5	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.131	





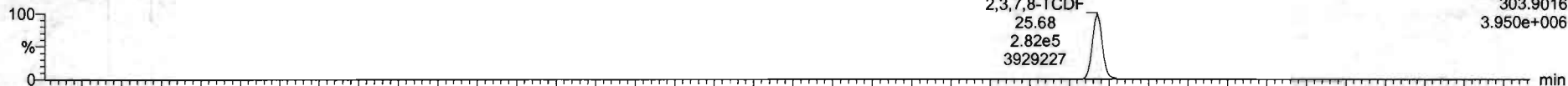
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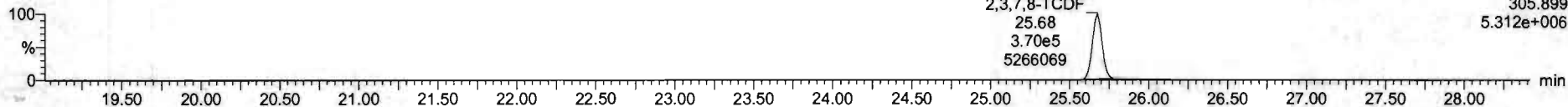
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**2,3,7,8-TCDF**

200528R2\_4

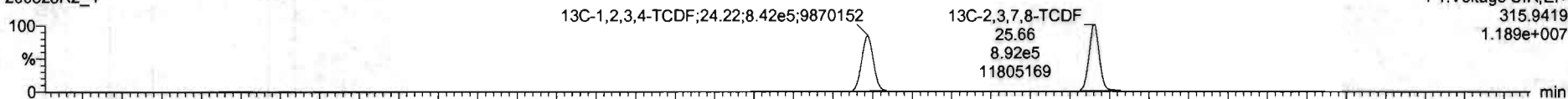


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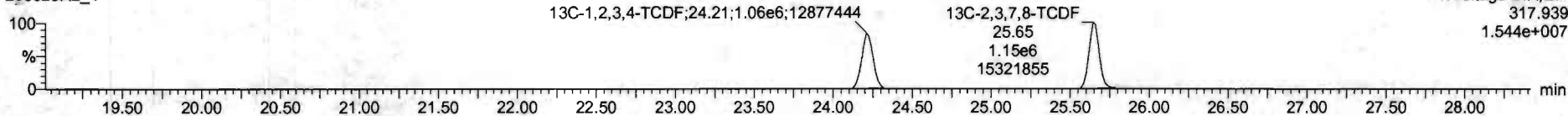


**13C-2,3,7,8-TCDF**

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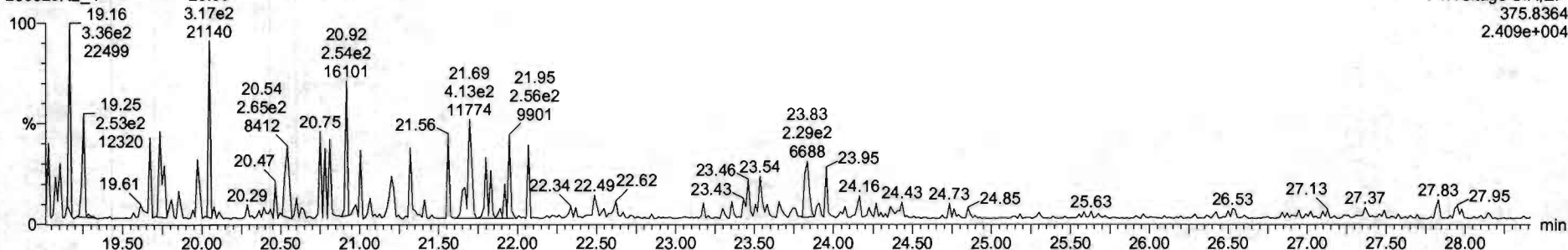


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**DPE1**

200528R2\_4



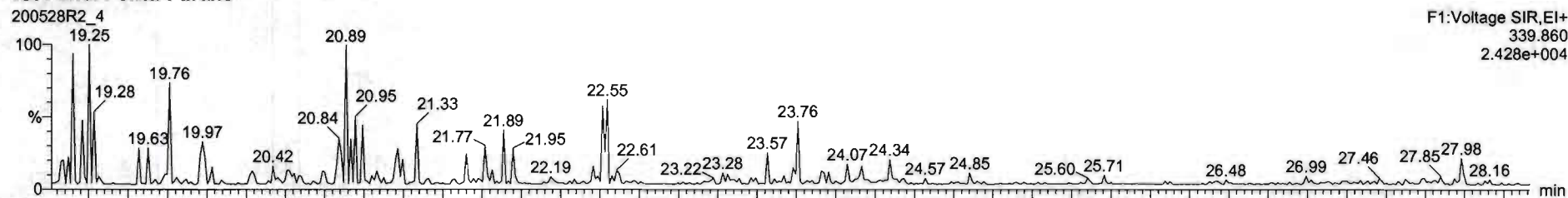


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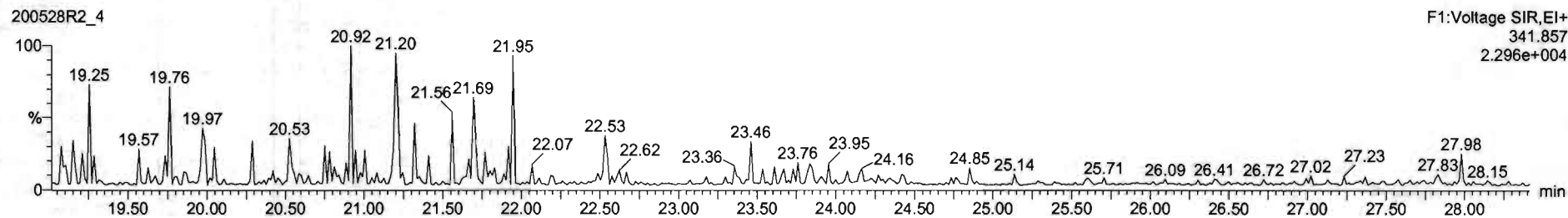
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Name: 200528R2\_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2\_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans

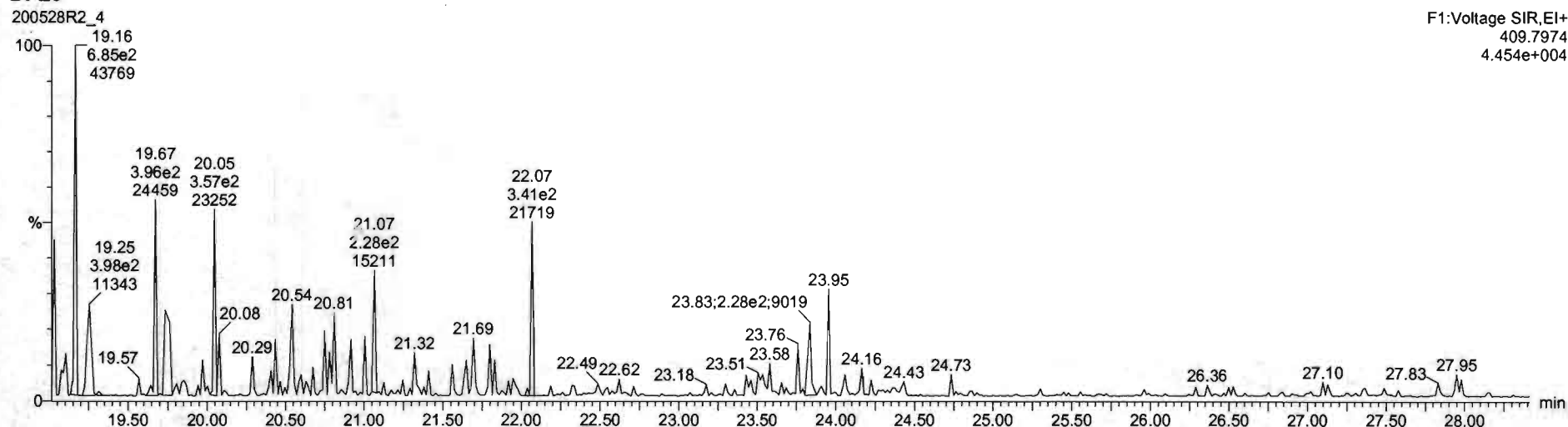


F1:Voltage SIR,EI+  
339.860  
2.428e+004



F1:Voltage SIR,EI+  
341.857  
2.296e+004

DPE6



F1:Voltage SIR,EI+  
409.7974  
4.454e+004

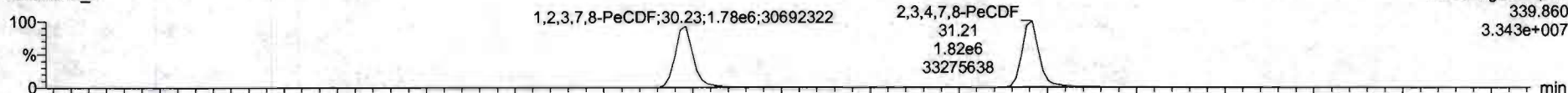
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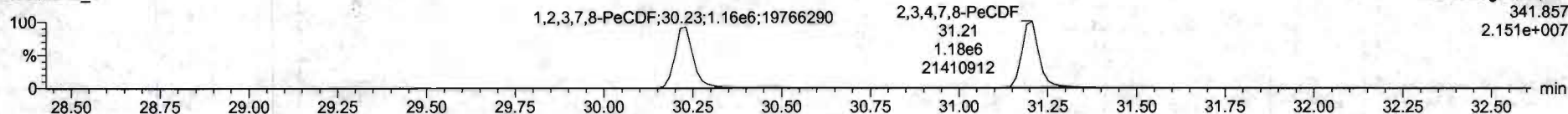
Name: 200528R2\_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2\_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200528R2\_4

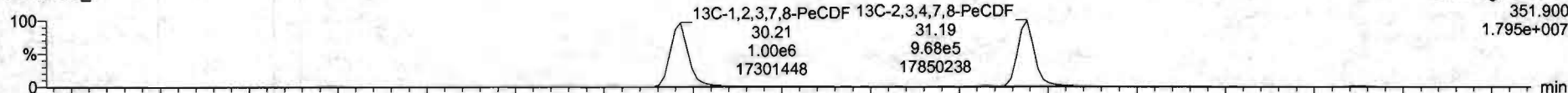


200528R2\_4

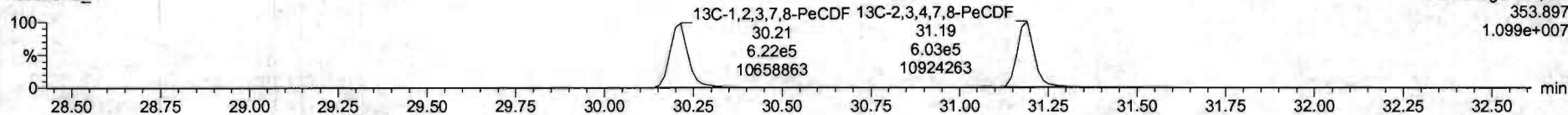


**13C-1,2,3,7,8-PeCDF**

200528R2\_4

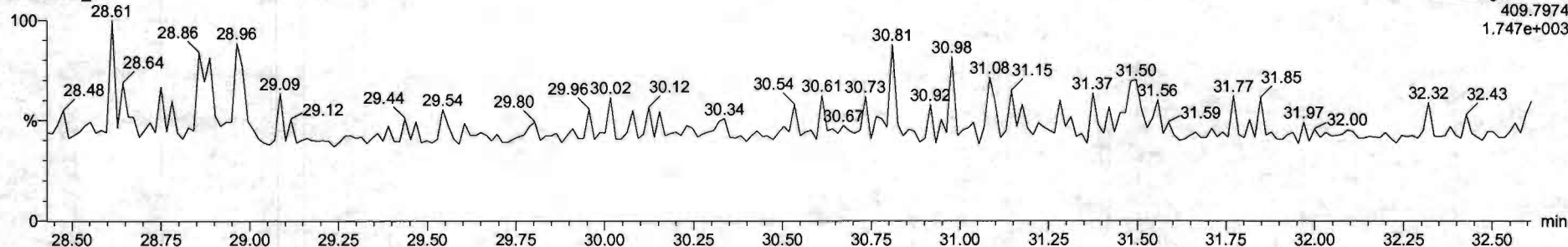


200528R2\_4



**DPE2**

200528R2\_4



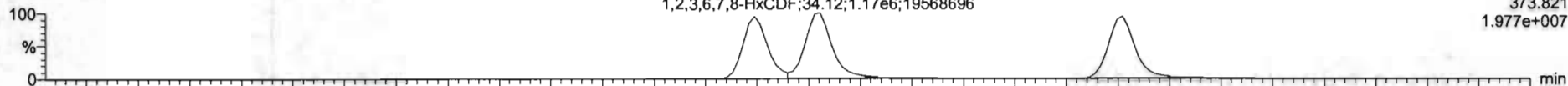
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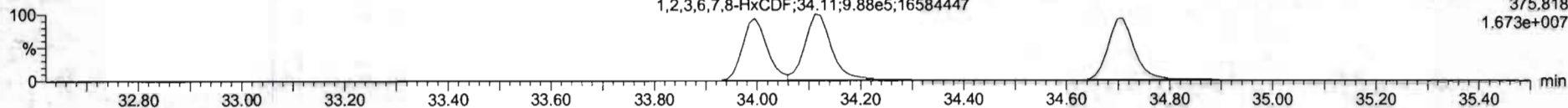
Name: 200528R2\_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2\_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200528R2\_4

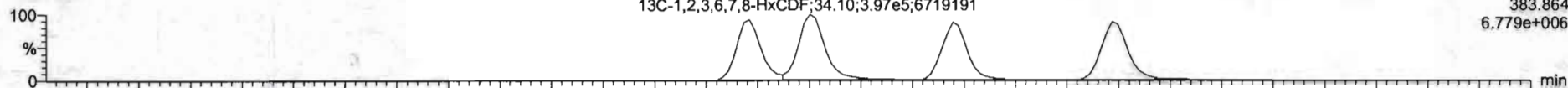


200528R2\_4

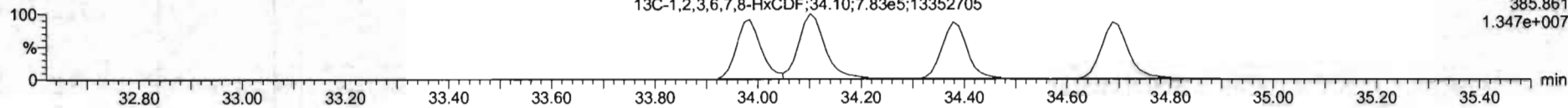


**13C-1,2,3,4,7,8-HxCDF**

200528R2\_4

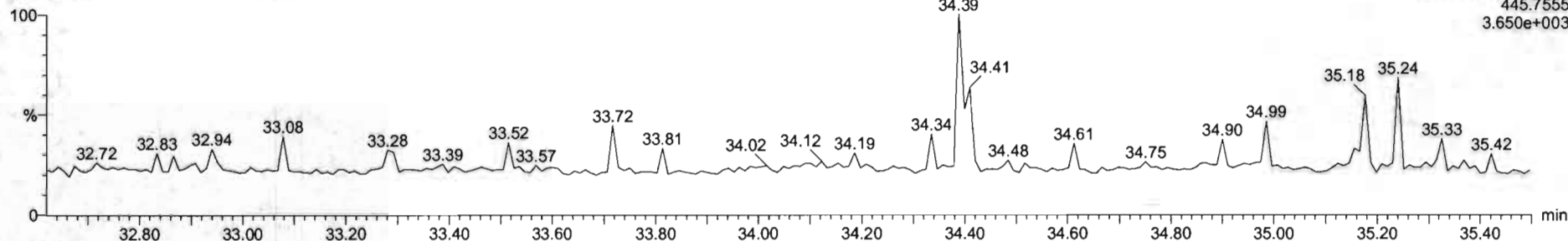


200528R2\_4



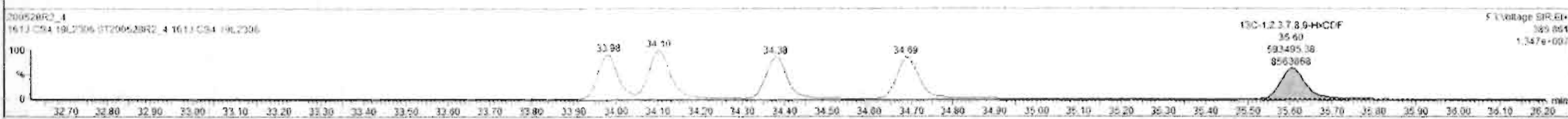
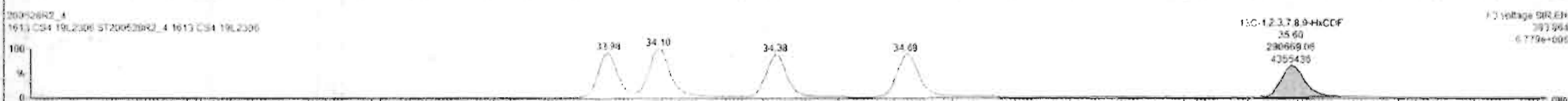
**DPE3**

200528R2\_4





#	Name	Resp	RA	ntf	RRF	wb/wr	RT	RRT	Conc	%Rec	DL	IRFC
1	1.2.3.7.8-1CDD	3.56e5	0.78	NO	0.2883	1.000	26.96	1.001	41.2	103	0.124	11.2
2	1.2.3.7.8-HxCDD	2.06e6	0.83	NO	0.9081	1.000	31.91	1.000	285	100	0.0837	209
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0324	1.000	34.88	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8523	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.78e6	1.20	NO	0.8865	1.000	35.26	1.008	240	105	0.133	240
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.8639	1.000	36.86	1.000	211	106	0.128	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.27	1.000	397	99.4	0.182	397
8	1.2.3.7.8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.68	1.001	42.6	107	0.123	42.6
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.8925	1.000	30.23	1.000	283	101	0.118	283
10	1.2.3.4.7.8-PeCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	105	0.199	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.95	1.000	268	104	0.221	268
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8892	1.000	34.12	1.001	200	103	0.200	200
13	1.2.3.4.6.7.8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	102	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.28	NO	0.8787	1.000	35.62	1.001	290	104	0.313	290
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.39	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.32	1.000	214	107	0.221	214
17	OCDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	403	100	0.178	402
18	13C-1.2.3.7.8-1CDD	1.50e6	0.75	NO	1.1563	1.000	26.54	1.026	103	101	0.194	
19	13C-1.2.3.7.8-PeCDD	1.11e6	0.64	NO	0.6468	1.000	31.90	1.216	193	103	0.130	
20	13C-1.2.3.4.7.8-HxCDD	7.09e5	1.28	NO	0.7790	1.000	34.96	1.014	103	102	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.98	1.013	104	104	0.124	



Dataset: Untitled

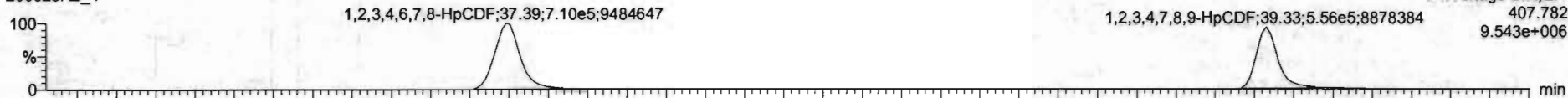
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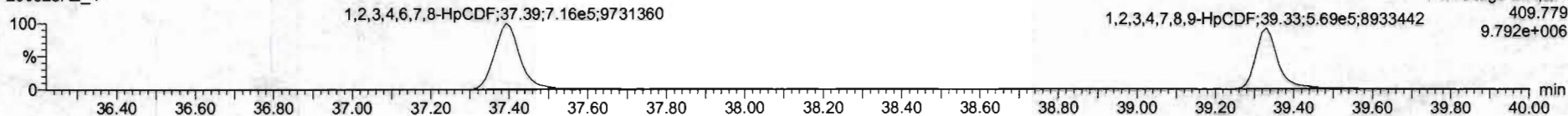
Name: 200528R2\_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2\_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200528R2\_4

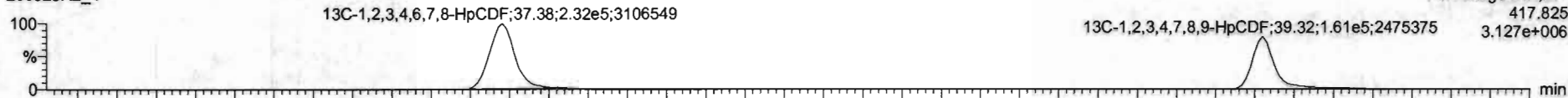


200528R2\_4

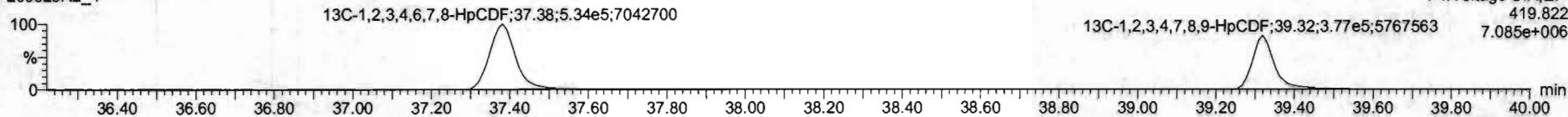


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_4

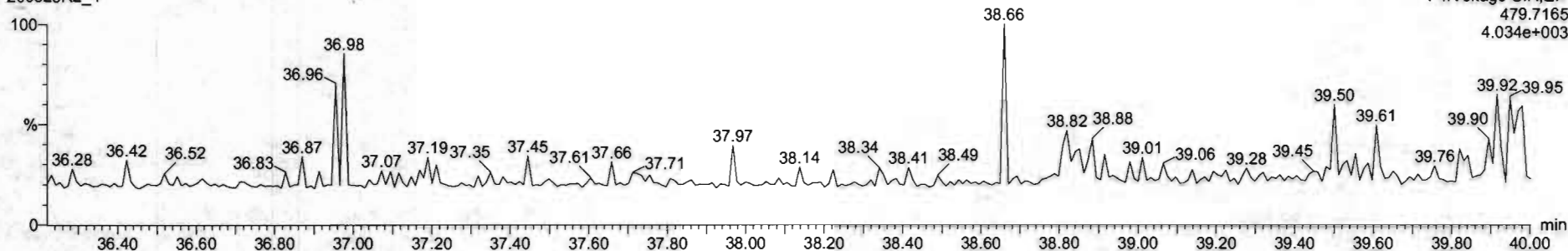


200528R2\_4

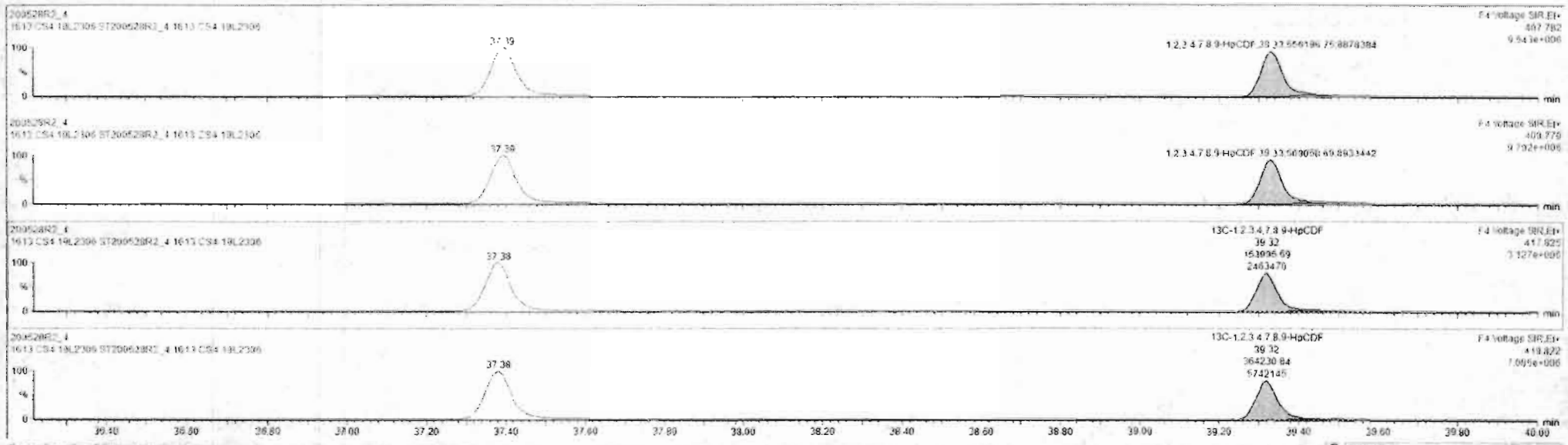


**DPE4**

200528R2\_4



#	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.56e5	0.78	NO	0.8583	1.000	26.56	1.001	41.3	103	0.134	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.63	NO	0.9081	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,4,7,8-HxCDD	1.87e6	1.23	NO	1.0334	1.000	34.86	1.001	204	102	0.115	204
4	1,2,3,8,7,8-HxCDD	1.82e6	1.22	NO	0.8521	1.000	34.90	1.001	200	104	0.111	200
5	1,2,3,7,9,8-HxCDD	1.70e6	1.20	NO	0.8969	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HxCDD	1.25e6	1.02	NO	0.8633	1.000	36.90	1.000	211	105	0.219	211
7	OCDD	2.45e8	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.190	397
8	2,3,7,8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.66	1.001	42.6	107	0.123	42.2
9	1,2,3,7,8-PeCDF	2.54e6	1.54	NO	0.8925	1.000	30.23	1.000	203	101	0.110	203
10	1,2,3,4,7,8-HxCDF	3.00e6	1.54	NO	0.9346	1.000	31.21	1.000	204	107	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.99	1.000	203	104	0.221	206
12	1,2,3,6,7,8-HxCDF	2.16e6	1.18	NO	0.8867	1.000	34.12	1.001	206	103	0.203	206
13	2,3,4,6,7,8-HxCDF	2.06e6	1.19	NO	0.9341	1.000	34.71	1.001	207	107	0.219	207
14	1,2,3,7,9,8-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.213	208
15	1,2,3,4,6,7,8-HxCDF	1.43e6	0.95	NO	0.8734	1.000	37.35	1.000	215	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.15e6	0.60	NO	1.0128	1.000	39.33	1.000	214	107	5.327	214
17	OCDF	2.54e8	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2,3,7,8-TCDD	1.54e6	0.75	NO	1.1563	1.000	26.54	1.025	107	103	0.164	
19	13C-1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.138	
20	13C-1,2,3,4,7,8-HxCDD	7.89e5	1.26	NO	0.7790	1.000	34.96	1.014	103	103	0.132	
21	13C-1,2,3,6,7,8-HxCDD	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.121	

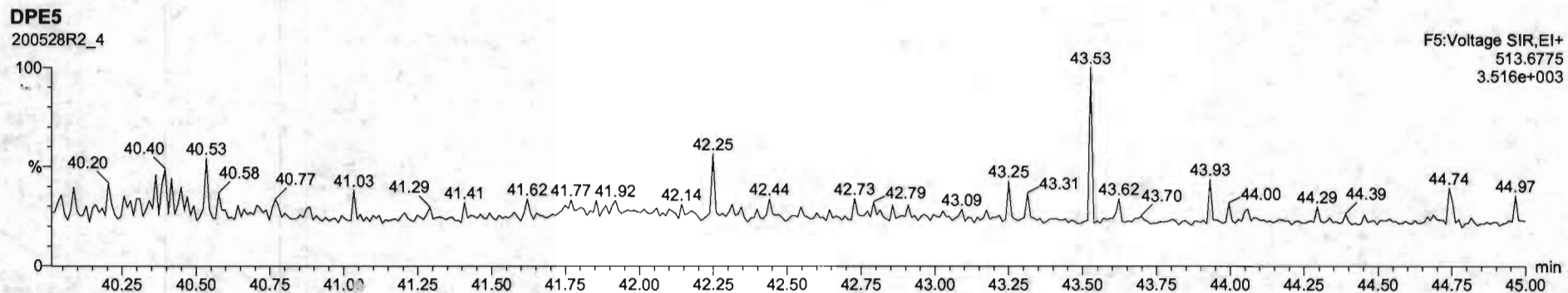
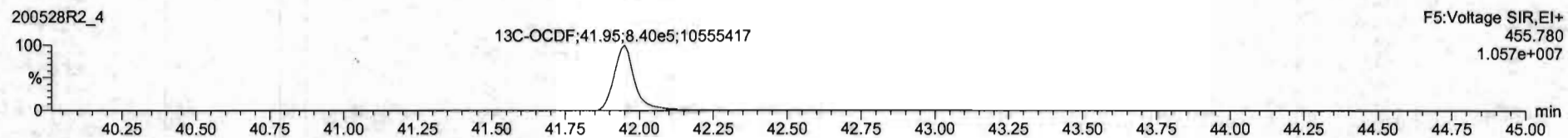
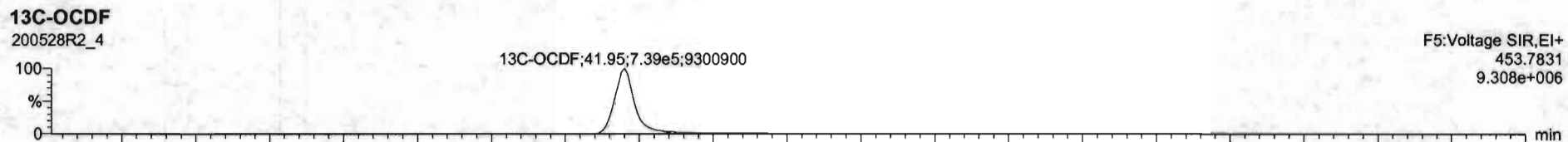
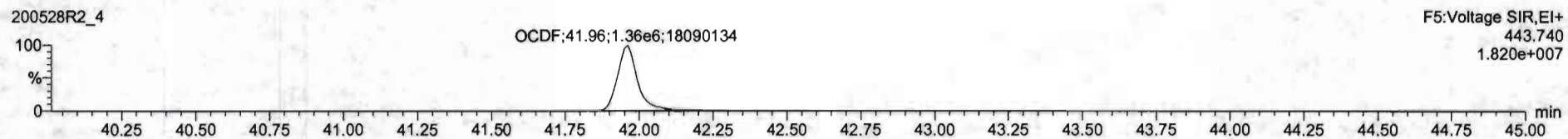
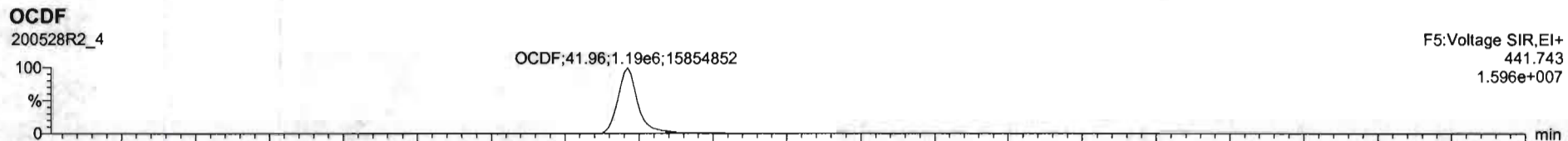




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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time  
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Name: 200528R2\_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2\_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306





#	Name	Resp	RA	ntf	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	1.2.3.7.5-TCDD	1.50e5	0.78	NO	0.8863	1.000	26.56	1.001	41.2	100	0.124	41.2
2	1.2.3.7.5-PeCDD	2.06e6	0.83	NO	0.9081	1.000	31.51	1.000	205	102	0.0827	205
3	1.2.3.4.7.8-HxCDD	1.07e6	1.23	NO	1.0334	1.000	34.85	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDF	1.92e6	1.22	NO	0.9523	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.75e6	1.20	NO	0.8265	1.000	35.26	1.000	210	105	0.123	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.9633	1.000	36.60	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.102	397
8	1.2.3.7.8-TCDF	0.52e5	0.76	NO	0.7510	1.000	25.05	1.001	42.0	107	0.127	42.0
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.8925	1.000	36.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	2.00e6	1.54	NO	0.9349	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8945	1.000	32.99	1.000	208	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8952	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.6.7.8-HpCDF	2.05e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.20	NO	0.8757	1.000	35.42	1.001	205	104	0.213	205
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.96	NO	0.8734	1.000	37.25	1.000	217	106	0.213	217
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.93	NO	1.0120	1.000	39.32	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8655	1.000	41.96	1.000	402	100	0.171	402
18	1.2.3.7.8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	102	107	0.164	
19	1.2.3.7.8-PeCDF	0.11e6	0.64	NO	0.8496	1.000	31.50	1.210	103	103	0.130	
20	1.2.3.4.7.8-HxCDF	2.89e6	1.20	NO	0.7750	1.000	34.96	1.214	103	103	0.172	
21	1.2.3.4.7.8.9-HpCDF	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.121	

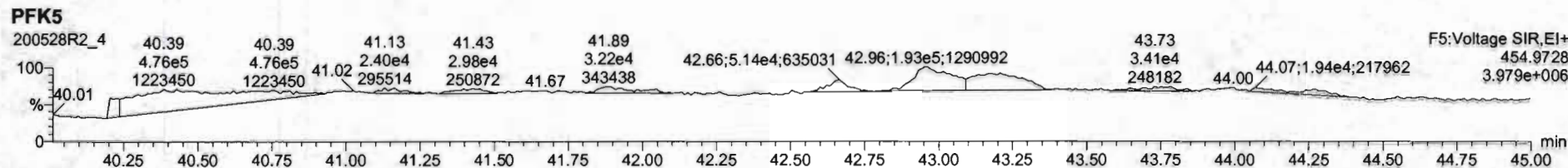
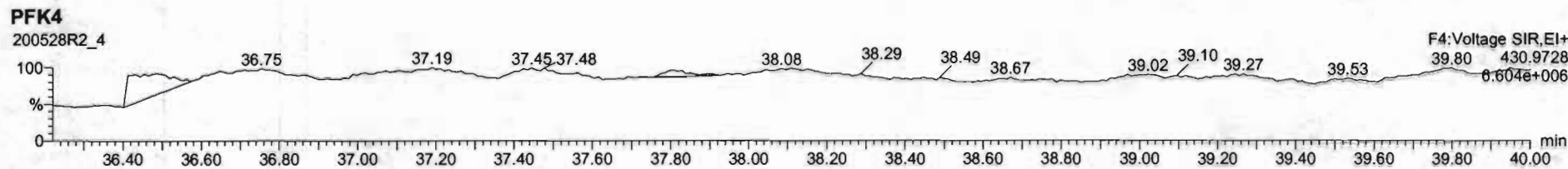
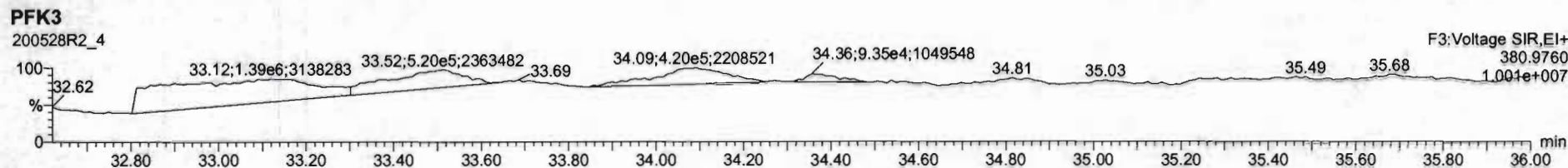
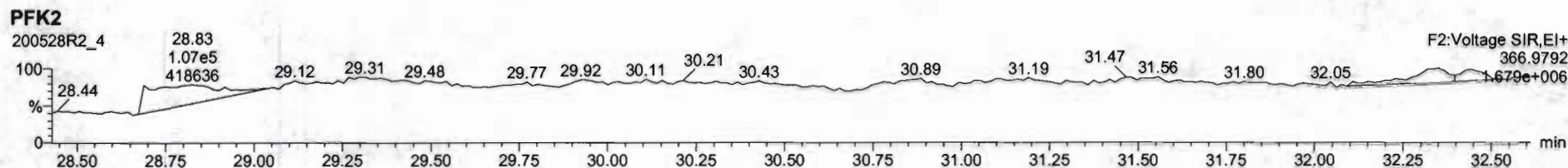
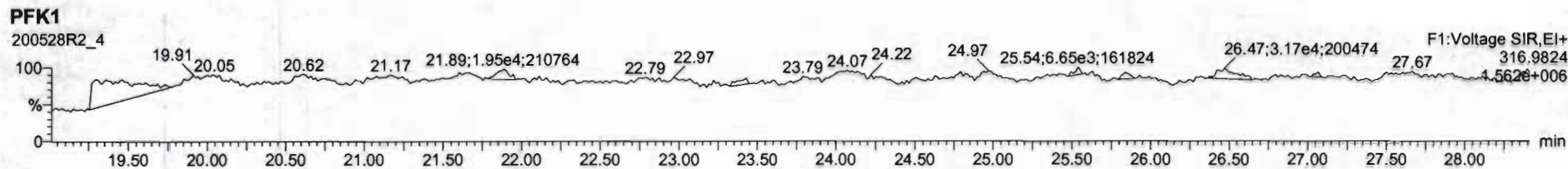


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Name: 200528R2\_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2\_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306



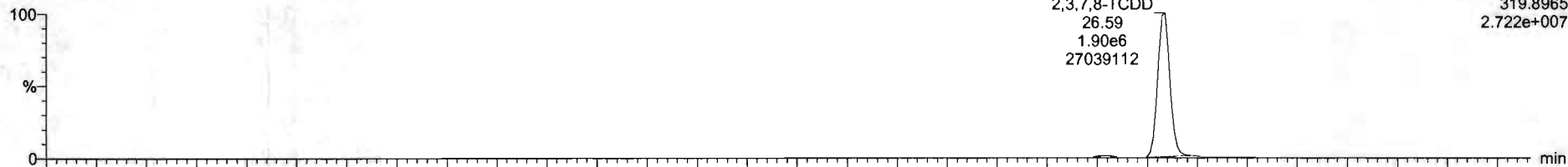
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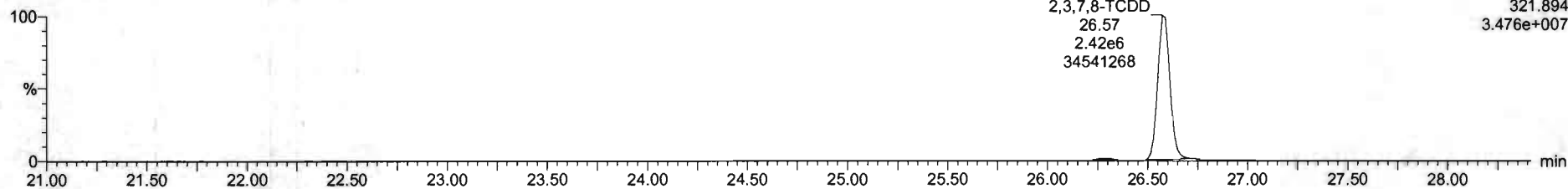
**2,3,7,8-TCDD**

200528R2\_5



F1:Voltage SIR,EI+  
319.8965  
2.722e+007

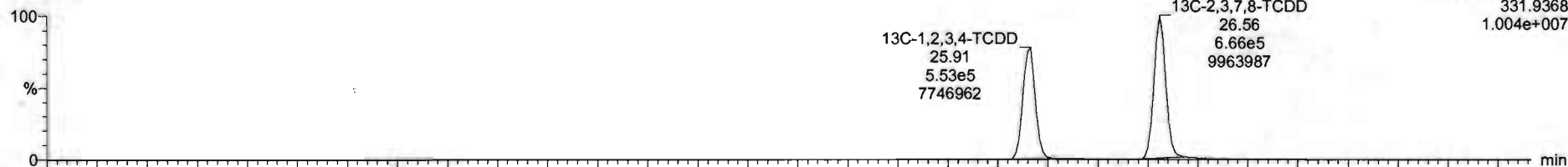
200528R2\_5



F1:Voltage SIR,EI+  
321.894  
3.476e+007

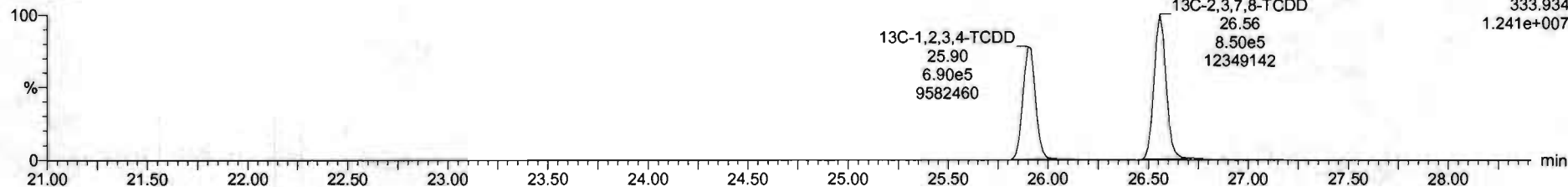
**13C-2,3,7,8-TCDD**

200528R2\_5



F1:Voltage SIR,EI+  
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1.004e+007

200528R2\_5



F1:Voltage SIR,EI+  
333.934  
1.241e+007



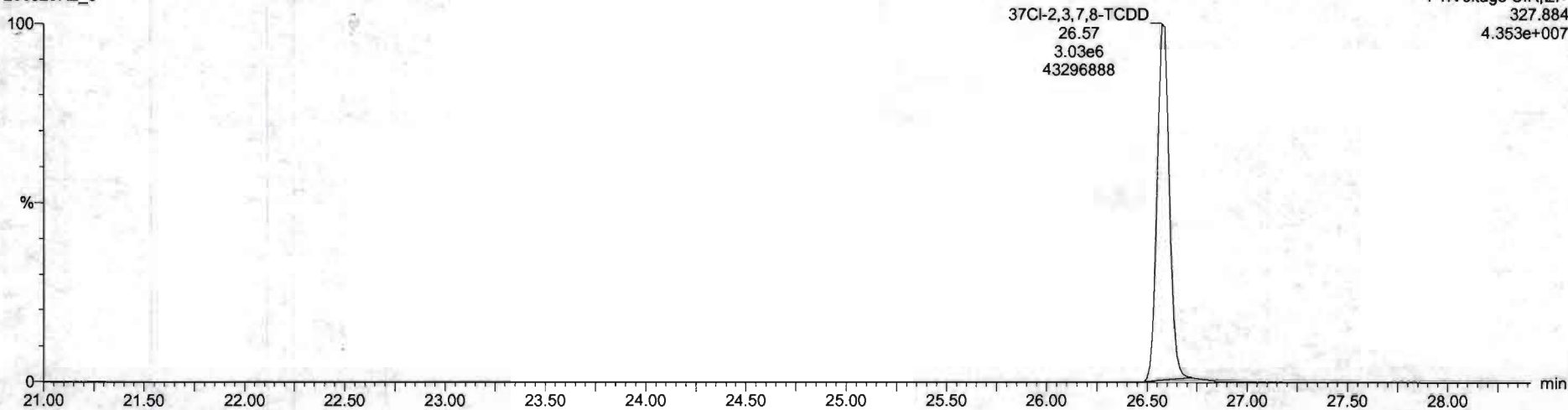
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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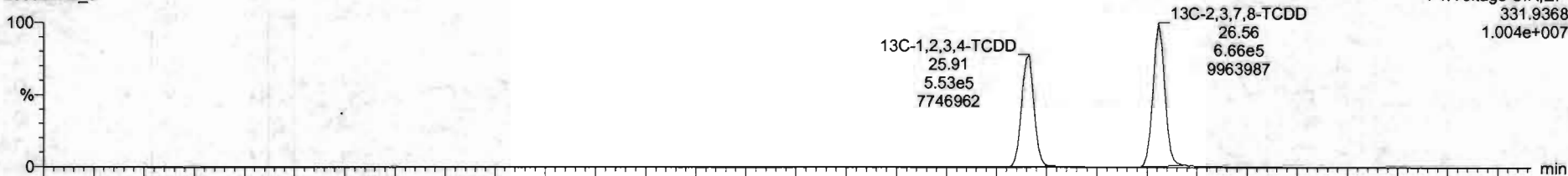
**37Cl-2,3,7,8-TCDD**

200528R2\_5

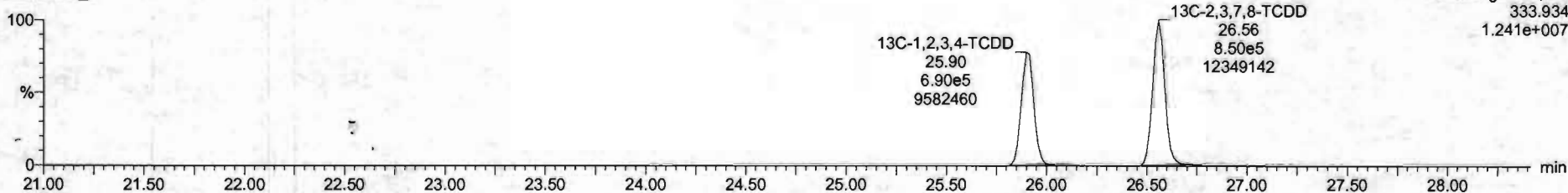


**13C-1,2,3,4-TCDD**

200528R2\_5



200528R2\_5



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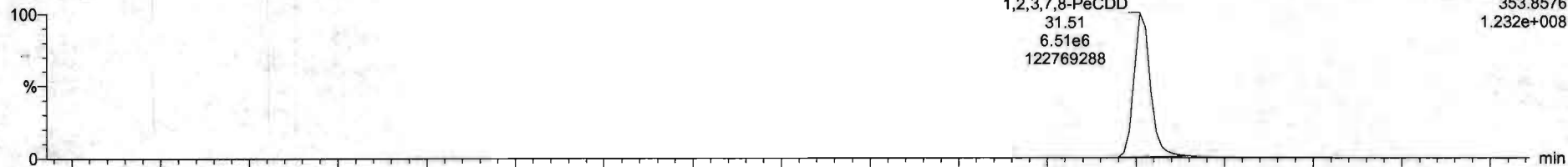
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

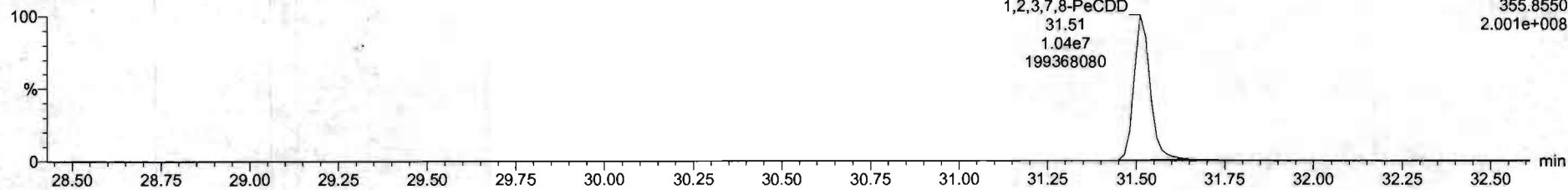
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**1,2,3,7,8-PeCDD**

200528R2\_5

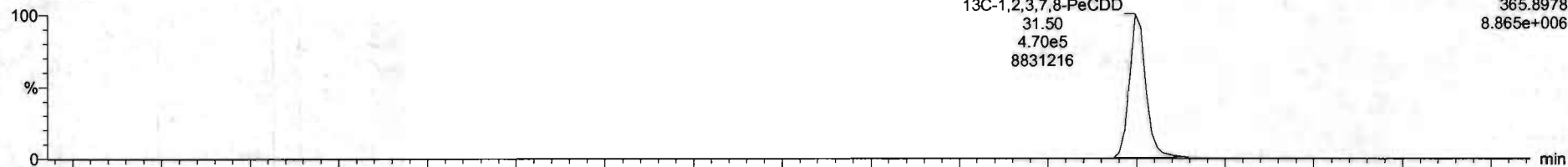


200528R2\_5

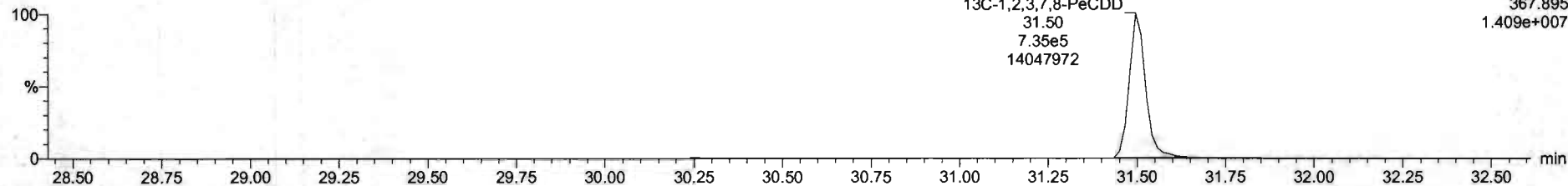


**13C-1,2,3,7,8-PeCDD**

200528R2\_5



200528R2\_5



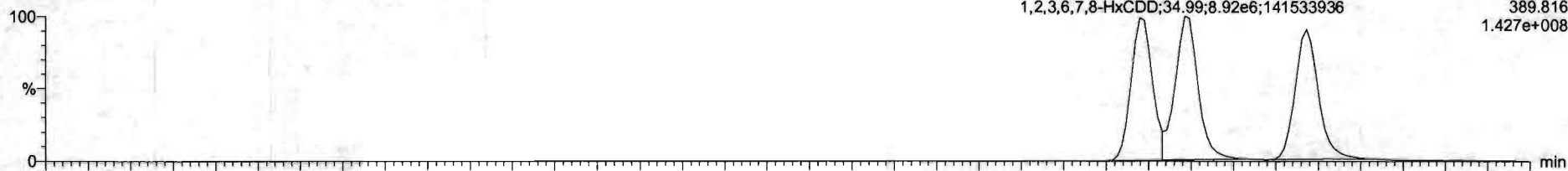
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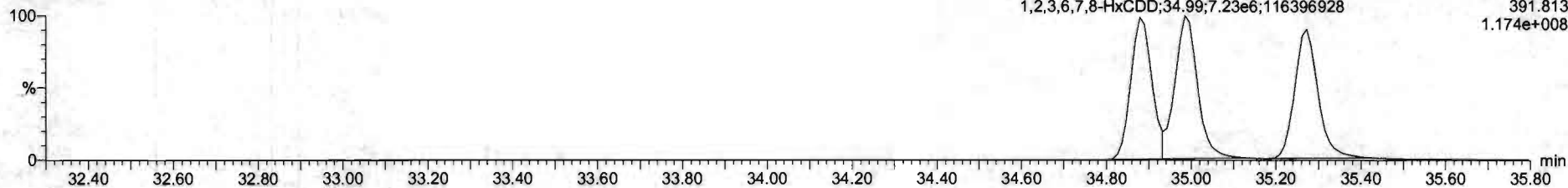
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**1,2,3,4,7,8-HxCDD**

200528R2\_5

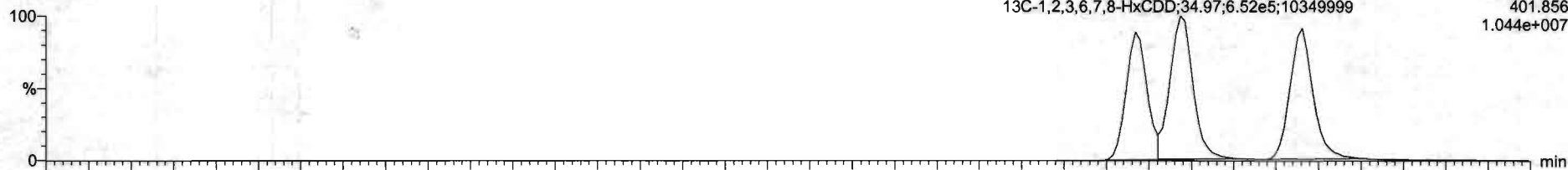


200528R2\_5

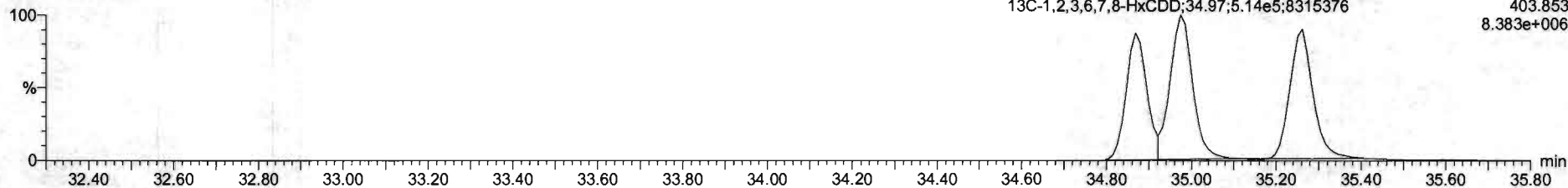


**13C-1,2,3,4,7,8-HxCDD**

200528R2\_5



200528R2\_5





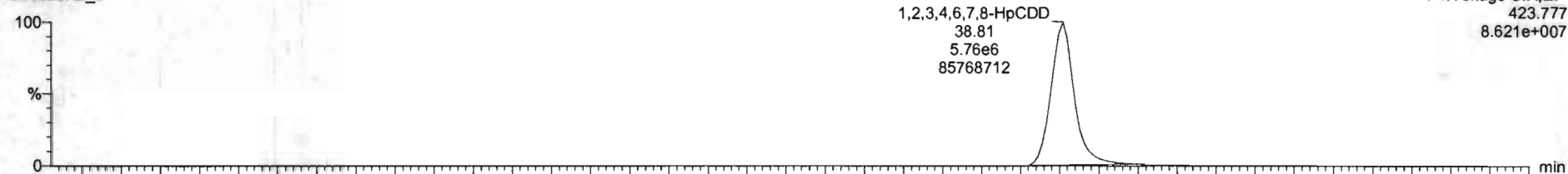
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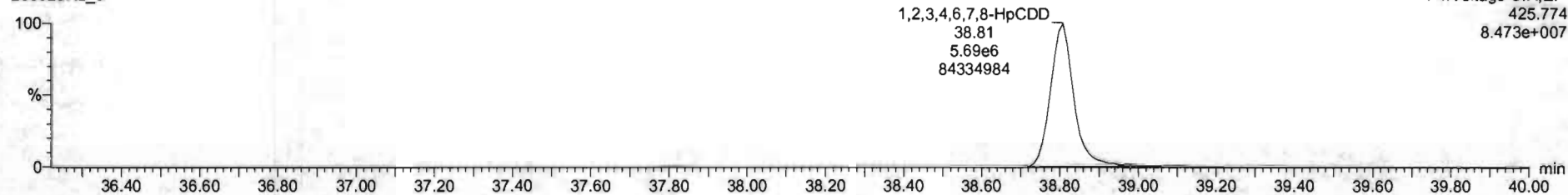
**1,2,3,4,6,7,8-HpCDD**

200528R2\_5



F4:Voltage SIR,EI+  
423.777  
8.621e+007

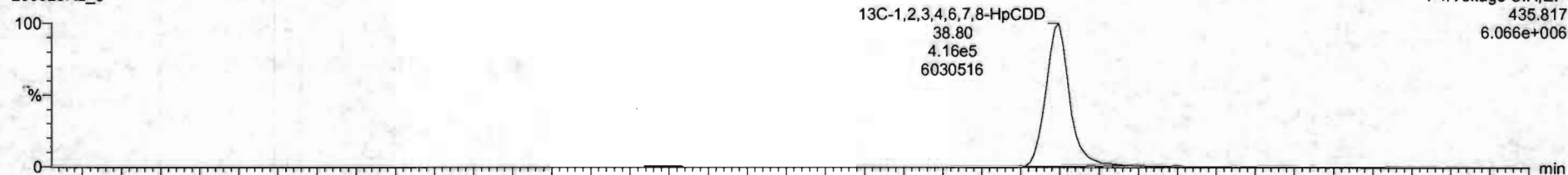
200528R2\_5



F4:Voltage SIR,EI+  
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8.473e+007

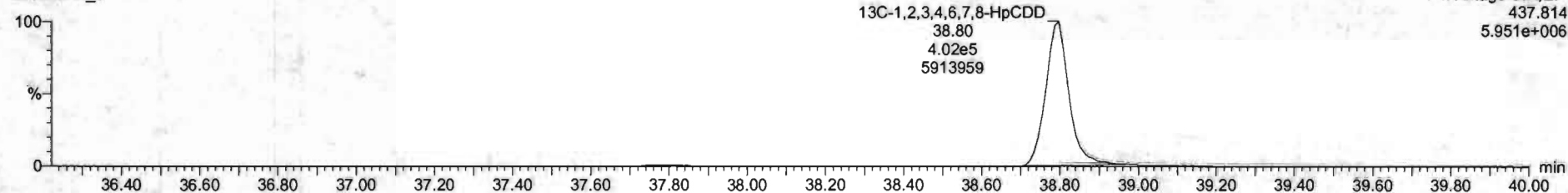
**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_5



F4:Voltage SIR,EI+  
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6.066e+006

200528R2\_5



F4:Voltage SIR,EI+  
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5.951e+006

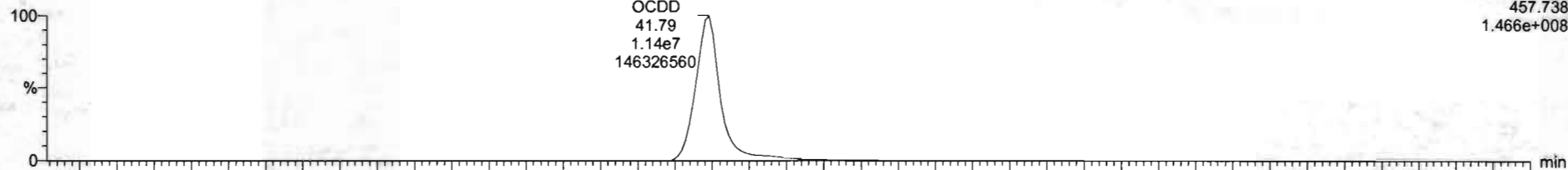
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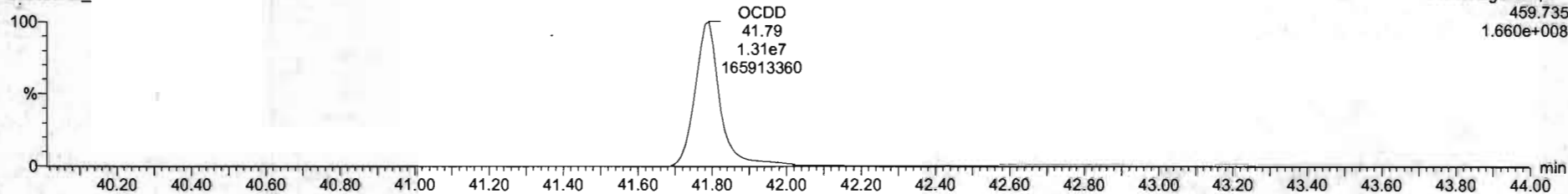
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OCDD

200528R2\_5

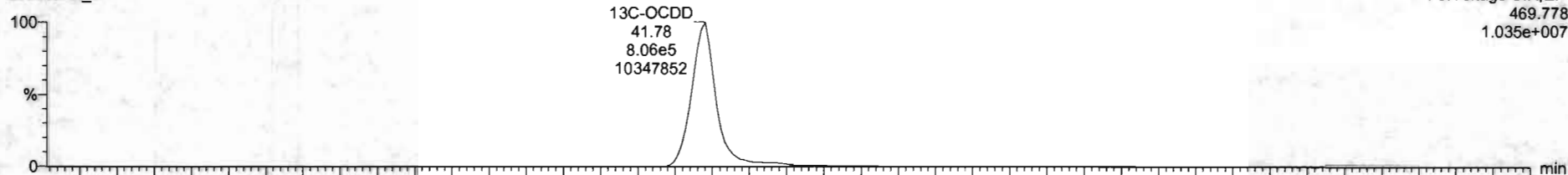


200528R2\_5

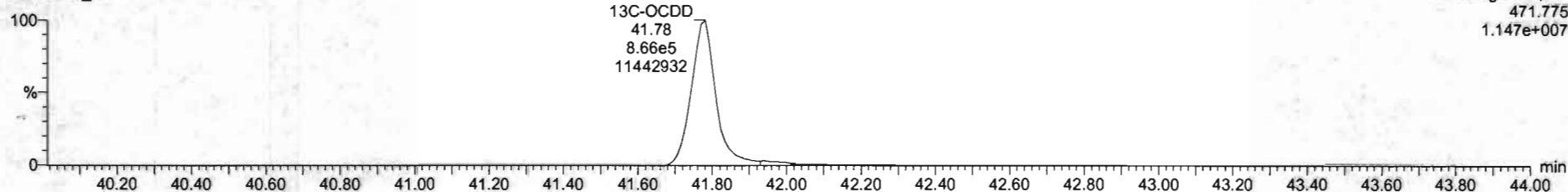


13C-OCDD

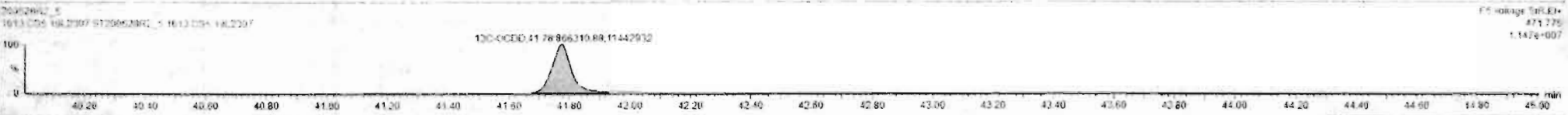
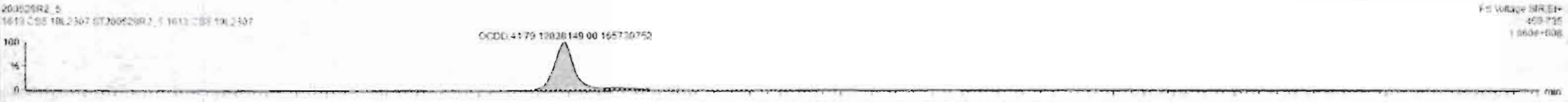
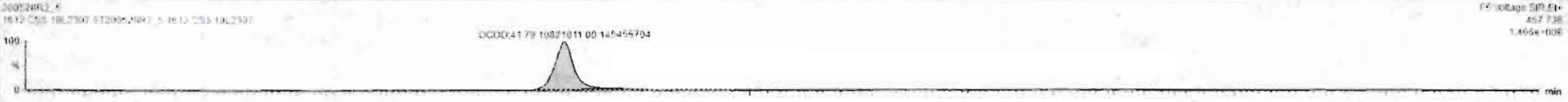
200528R2\_5



200528R2\_5



N	Name	Resp	RA	np	PRF	wt/vol	WT	NRT	Comp	%Rec	DL	ENPL
1	2.3.7.8-TCD0	4.52e7	0.76	NO	0.6883	1.000	26.95	1.001	321	107	0.0511	321
2	1.2.3.7.8-FluCD	1.58e7	0.63	NO	0.9051	1.000	31.61	1.000	1550	103	0.124	1550
3	1.2.3.4.7.8-HuCD	1.47e7	1.23	NO	1.0334	1.000	34.08	1.000	1520	101	0.130	1520
4	1.2.3.8.7.8-HuCD	1.41e7	1.23	NO	0.9523	1.000	34.99	1.000	1550	103	0.142	1550
5	1.2.3.7.8.9-HuCD	1.47e7	1.23	NO	0.9265	1.000	35.27	1.000	1570	104	0.107	1570
6	1.2.3.4.6.7.8-HuCD	1.15e7	1.01	NO	0.8639	1.000	36.61	1.000	1620	105	0.161	1620
7	OCDD	2.37e7	6.84	NO	0.9138	1.000	41.79	1.000	3100	103	0.379	3100
8	2.3.7.6-TCD	0.00e0	0.75	NO	0.7510	1.000	45.65	1.001	325	105	0.0600	325
9	1.2.3.7.8-PeCDF	2.38e7	1.54	NO	0.8925	1.000	40.23	1.000	1570	101	0.231	1570
10	2.3.4.7.8-PeCDF	0.40e7	1.53	NO	0.9348	1.000	41.21	1.000	1550	101	0.213	1550
11	1.2.3.4.7.8-HuCDF	1.61e7	1.19	NO	0.8644	1.000	44.01	1.000	1590	106	0.103	1590
12	1.2.3.6.7.8-HuCDF	1.06e7	1.19	NO	0.8092	1.000	44.72	1.000	1535	101	0.0927	1535
13	2.3.4.6.7.8-HuCDF	1.72e7	1.19	NO	0.9341	1.000	44.72	1.001	1560	104	0.152	1560
14	1.2.3.7.8.9-HuCDF	1.49e7	1.26	NO	0.6707	1.000	45.63	1.000	1560	106	0.145	1560
15	1.2.3.4.6.7.8-HuCDF	1.28e7	1.09	NO	0.8734	1.000	47.40	1.000	1560	104	0.303	1560
16	1.2.3.4.7.8.9-HuCDF	1.05e7	1.00	NO	1.0172	1.000	48.34	1.000	1620	103	0.215	1620
17	OCDF	2.35e7	6.05	NO	0.8085	1.000	41.95	1.000	3090	101	0.250	3090
18	13C-2.3.7.8-TCD	1.52e6	0.76	NO	1.1583	1.000	26.96	1.026	106	106	0.0720	106
19	13C-1.2.3.7.8-PeCDD	1.21e6	0.64	NO	0.8499	1.000	31.52	1.215	114	114	0.130	114
20	13C-1.2.3.4.7.8-PeCDD	6.34e5	1.28	NO	0.7750	1.000	34.97	1.014	110	110	0.191	110
21	13C-1.2.3.6.7.8-PeCDD	1.17e6	1.27	NO	1.0167	1.000	34.97	1.017	113	113	0.146	113



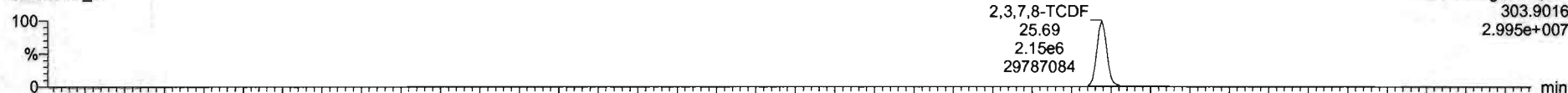
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

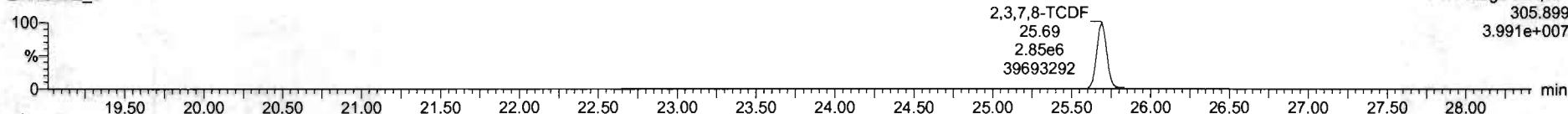
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**2,3,7,8-TCDF**

200528R2\_5

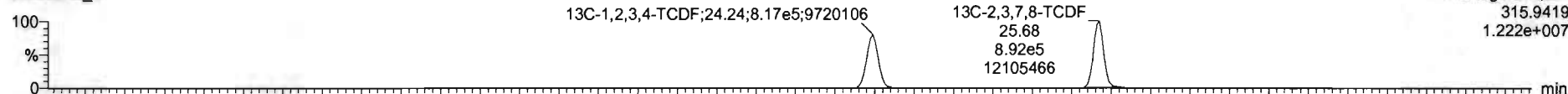


200528R2\_5

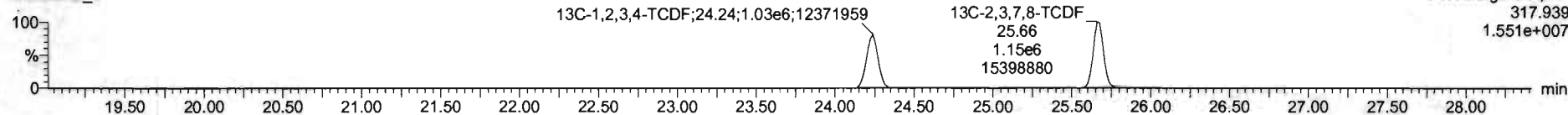


**13C-2,3,7,8-TCDF**

200528R2\_5

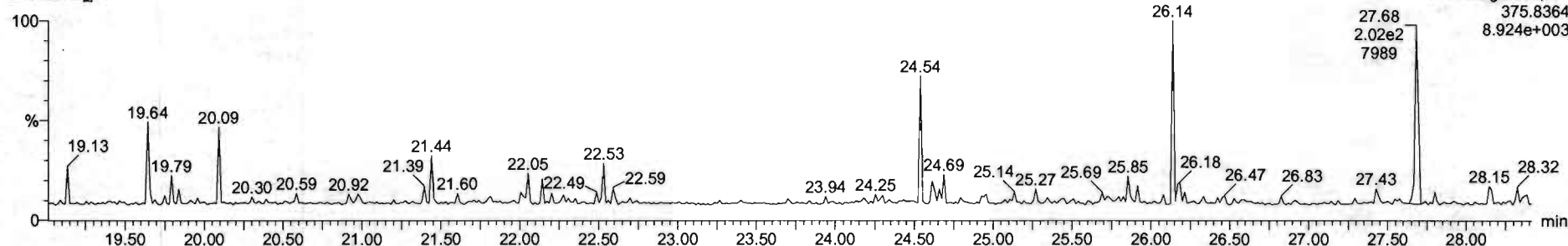


200528R2\_5



**DPE1**

200528R2\_5





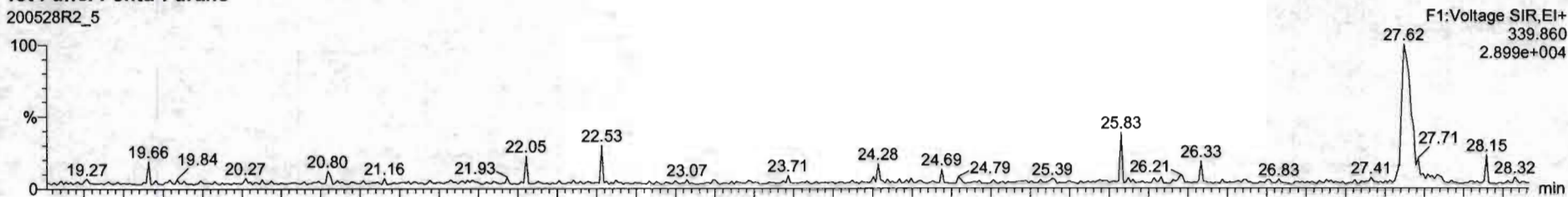
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

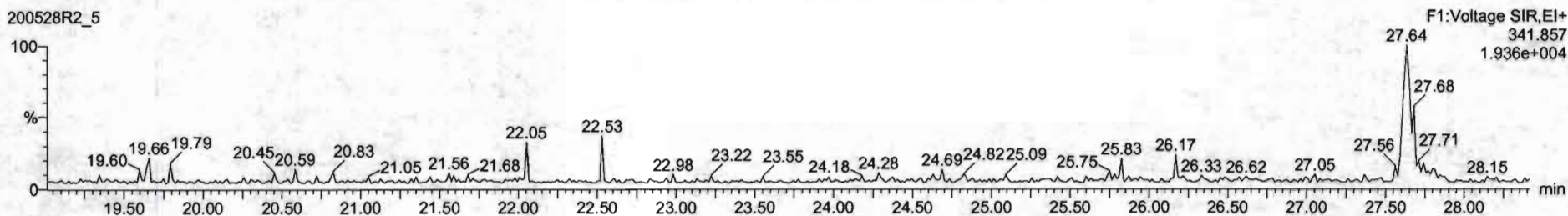
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200528R2\_5

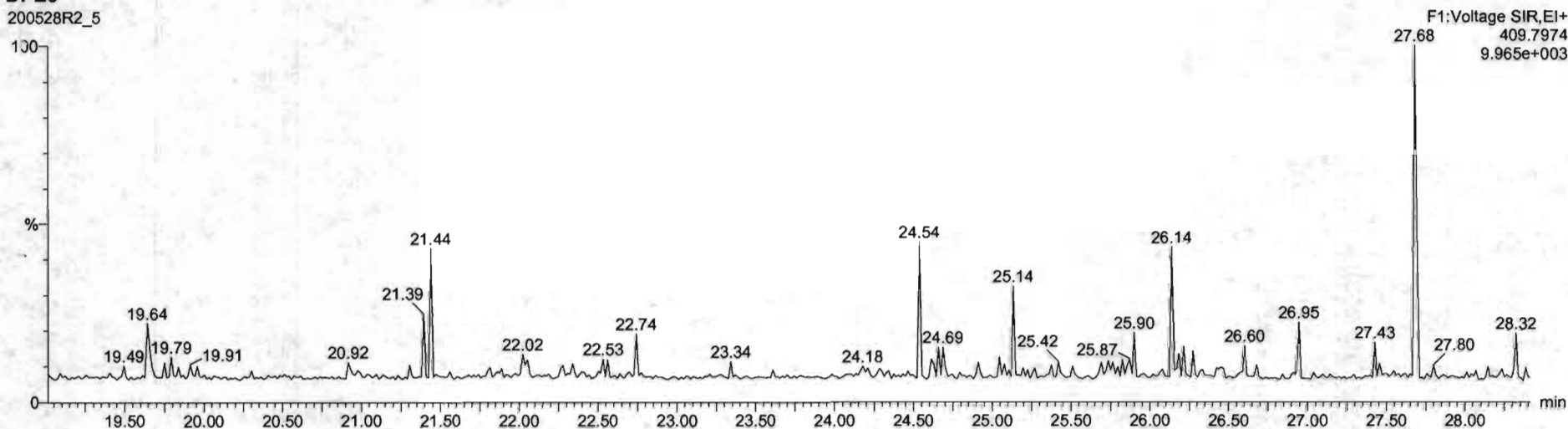


200528R2\_5



DPE6

200528R2\_5



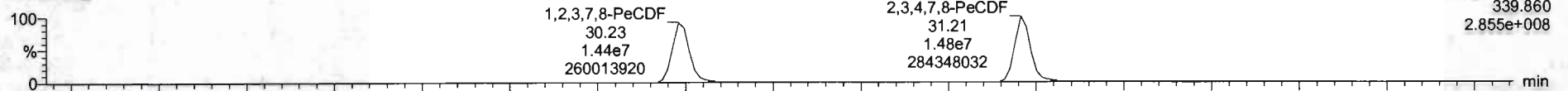
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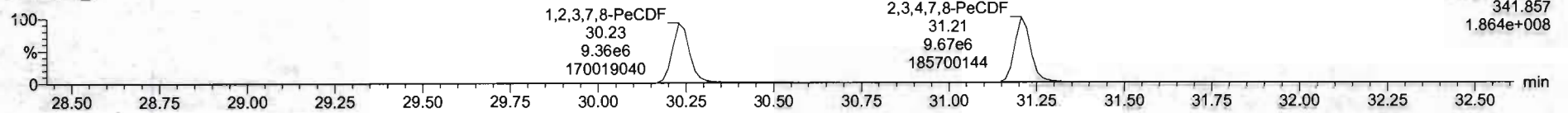
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**1,2,3,7,8-PeCDF**

200528R2\_5

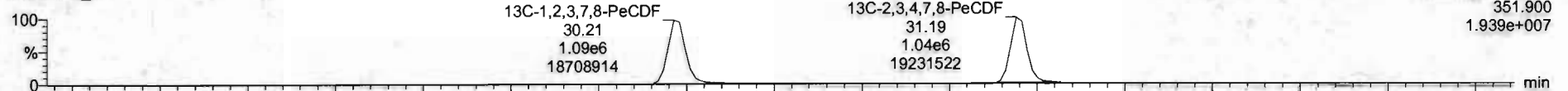


200528R2\_5

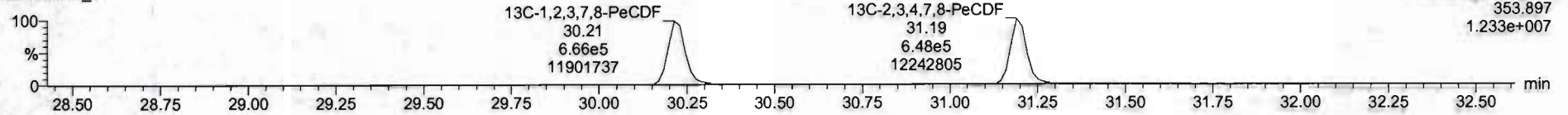


**13C-1,2,3,7,8-PeCDF**

200528R2\_5

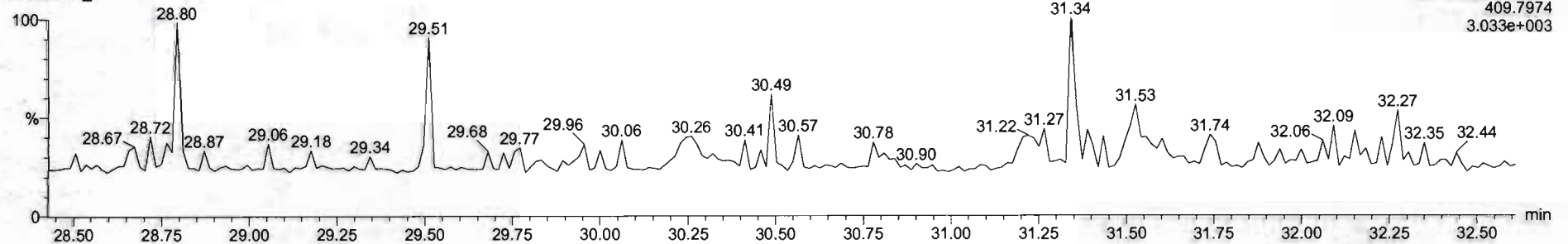


200528R2\_5



**DPE2**

200528R2\_5





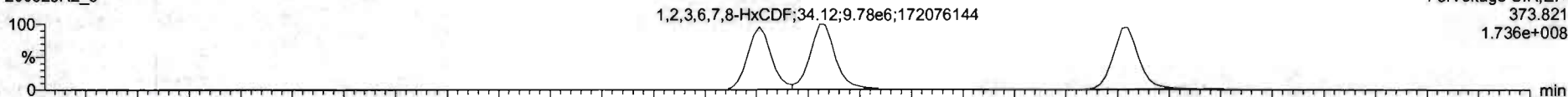
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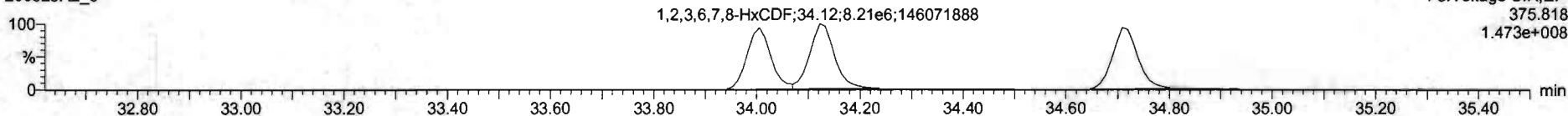
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**1,2,3,4,7,8-HxCDF**

200528R2\_5

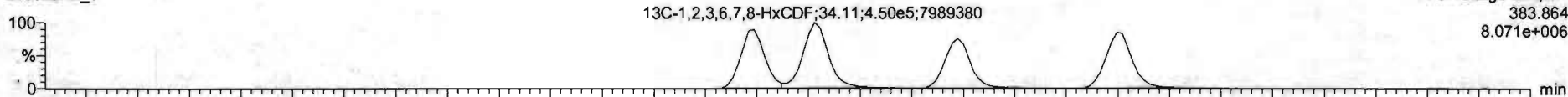


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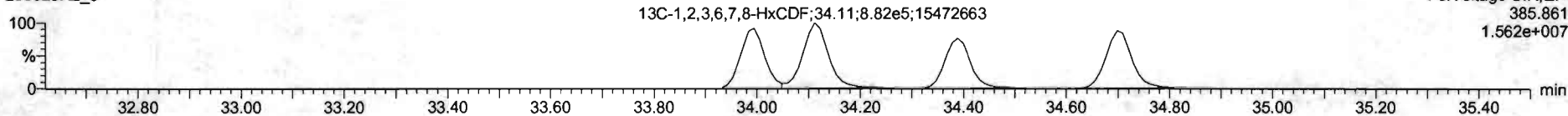


**13C-1,2,3,4,7,8-HxCDF**

200528R2\_5

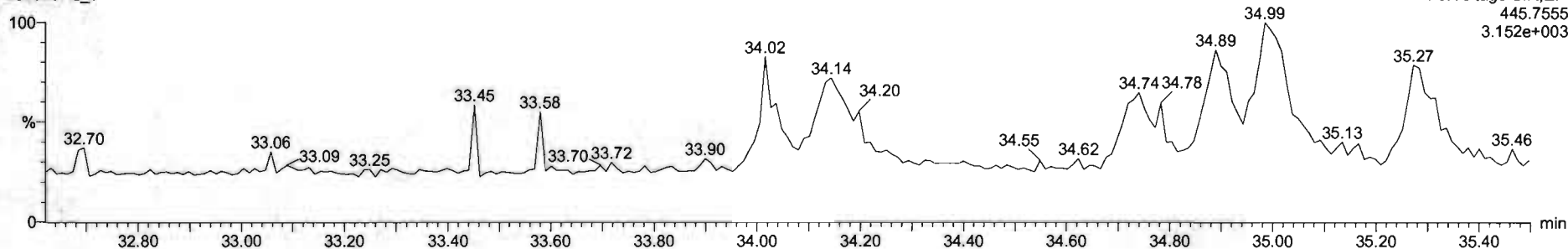


200528R2\_5



**DPE3**

200528R2\_5



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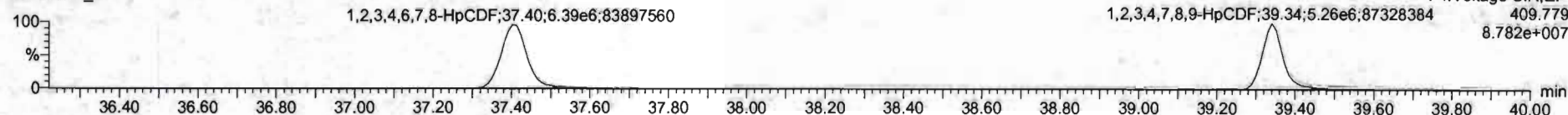
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_5

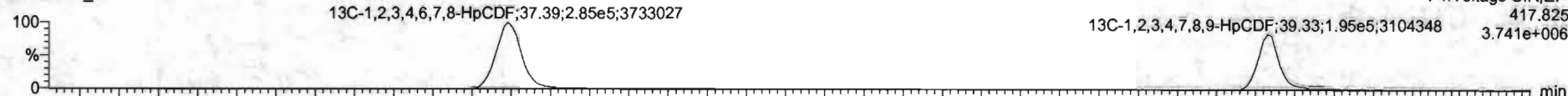


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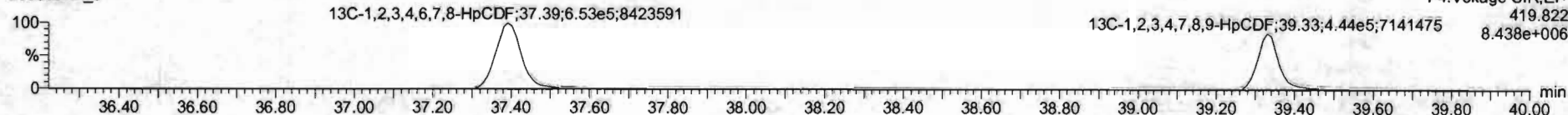


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_5

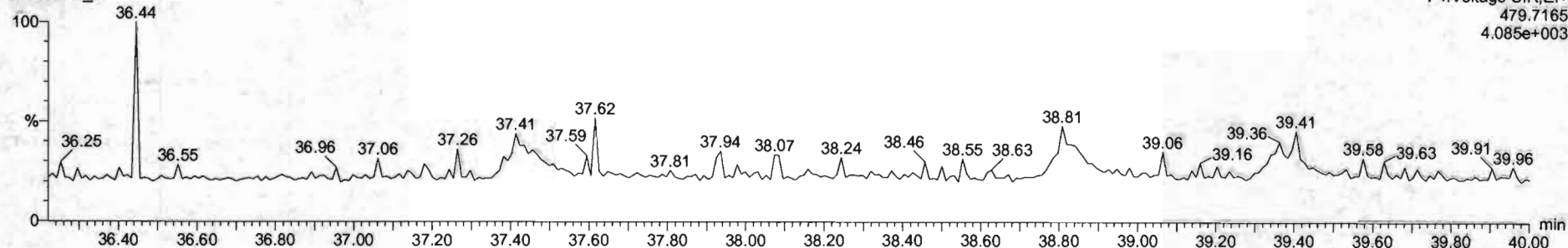


200528R2\_5



**DPE4**

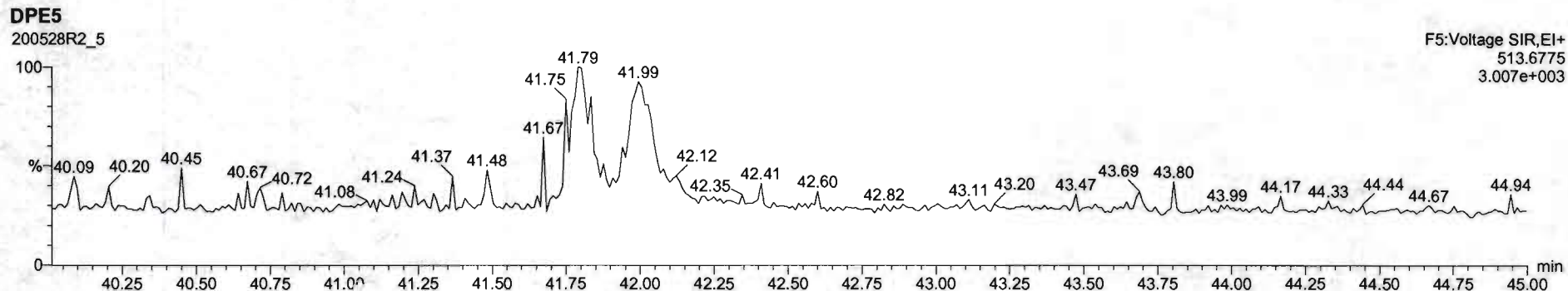
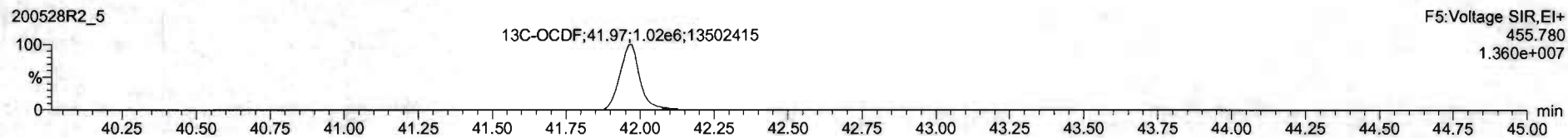
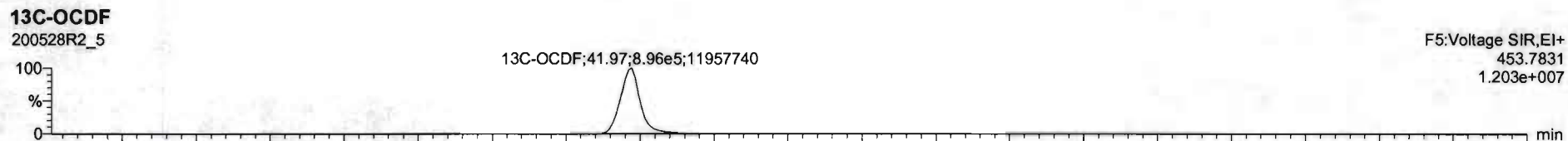
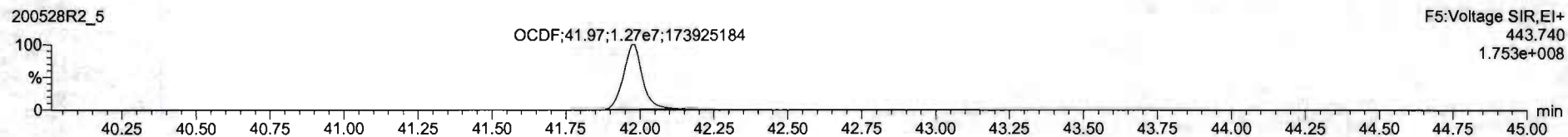
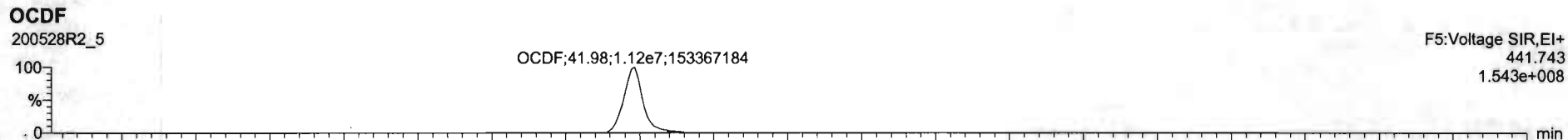
200528R2\_5



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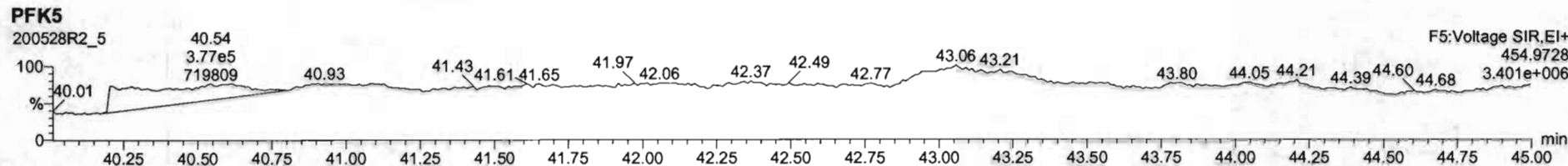
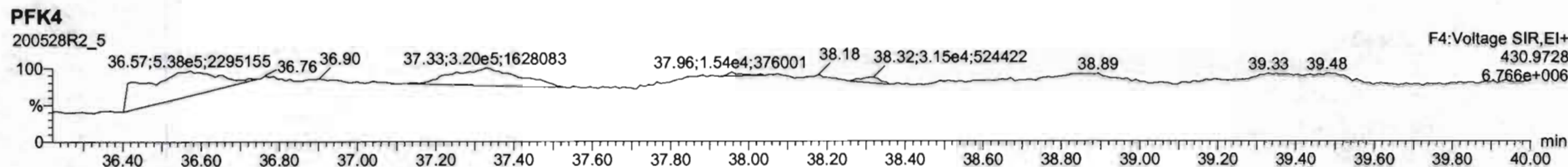
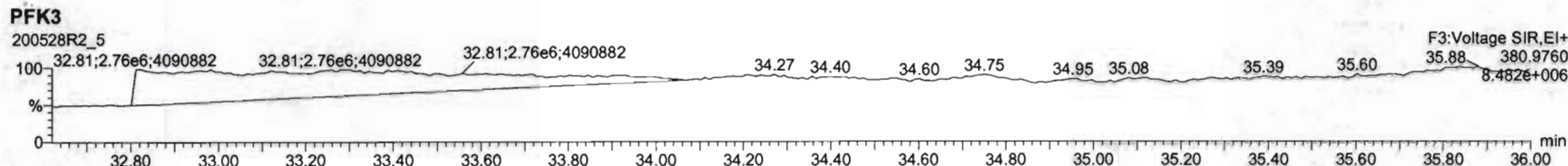
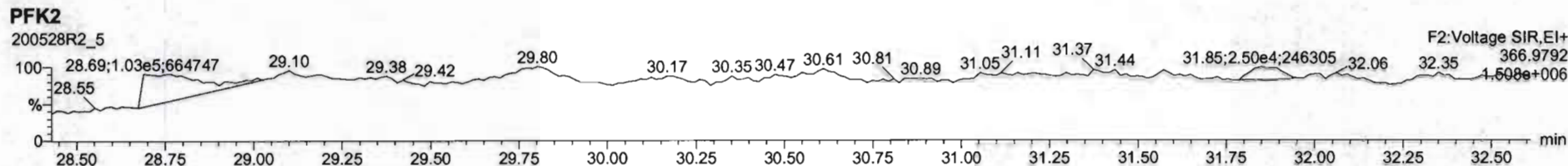
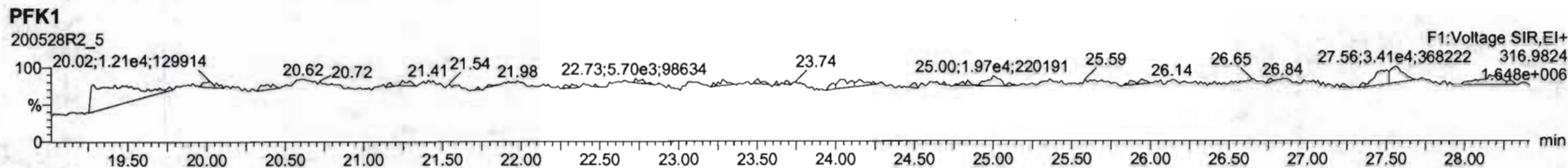




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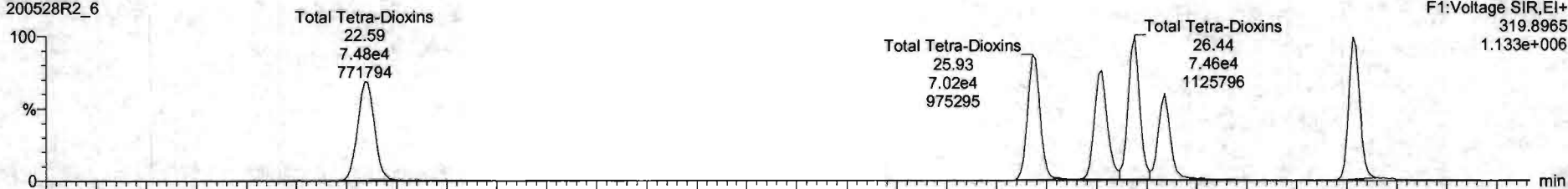
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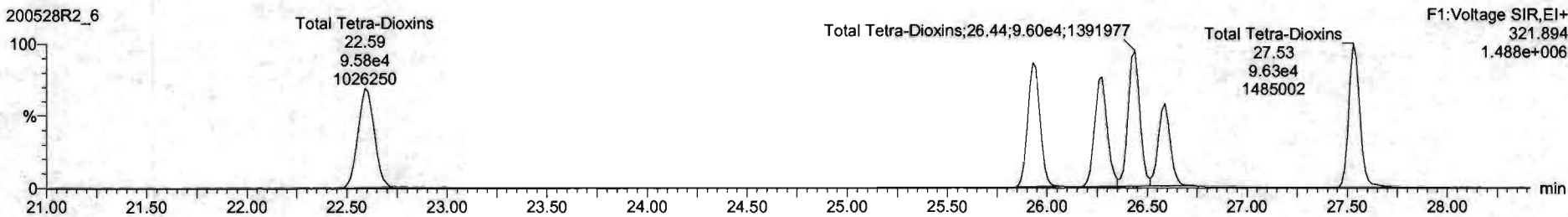
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2,3,7,8-TCDD

200528R2\_6

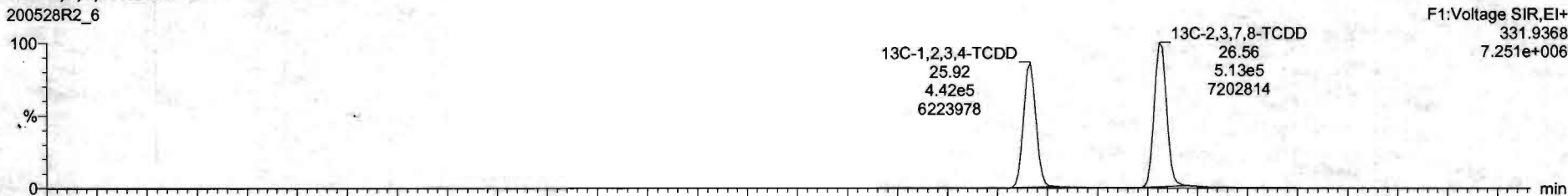


200528R2\_6

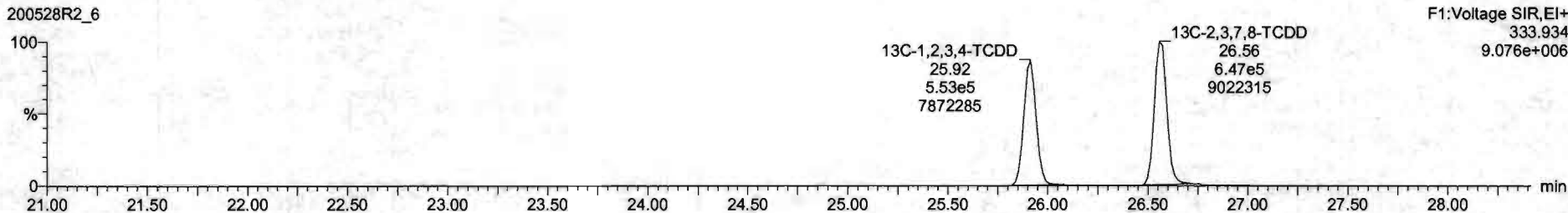


13C-2,3,7,8-TCDD

200528R2\_6



200528R2\_6



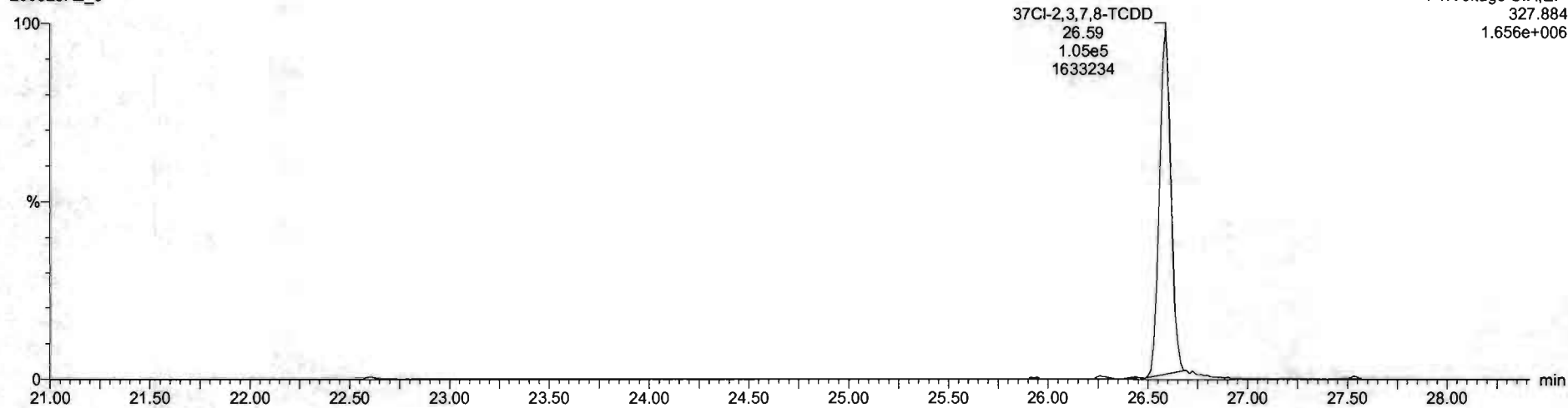
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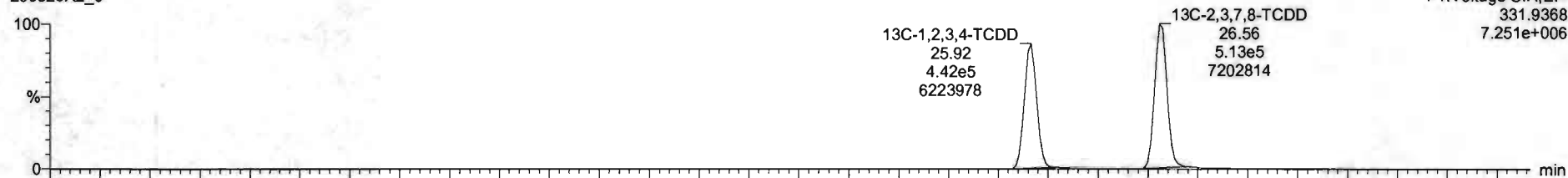
**37Cl-2,3,7,8-TCDD**

200528R2\_6

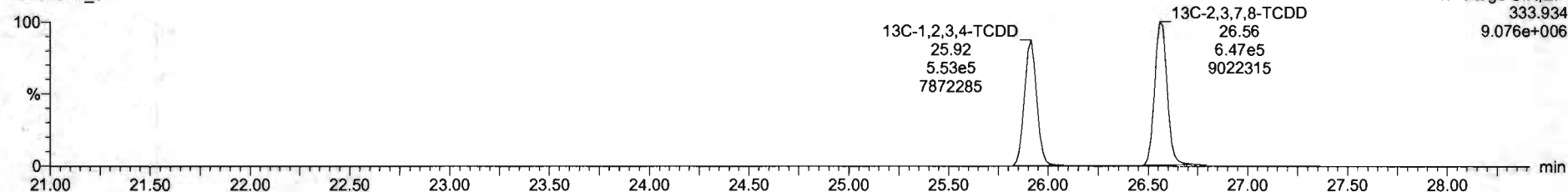


**13C-1,2,3,4-TCDD**

200528R2\_6



200528R2\_6





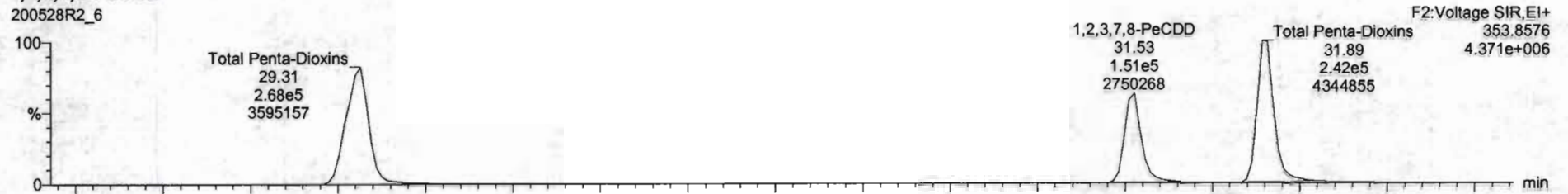
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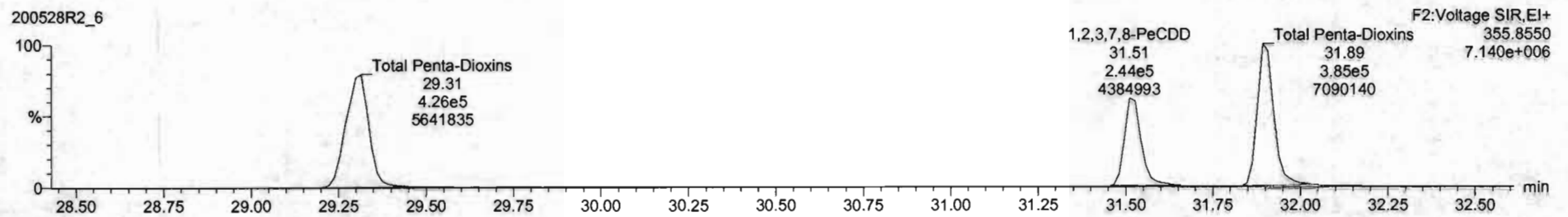
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1,2,3,7,8-PeCDD

200528R2\_6

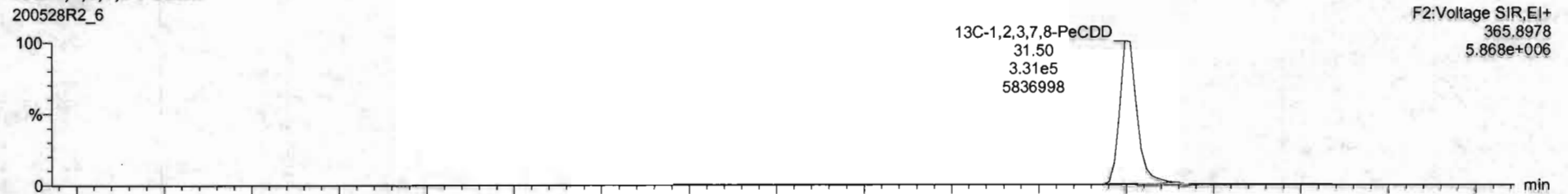


200528R2\_6

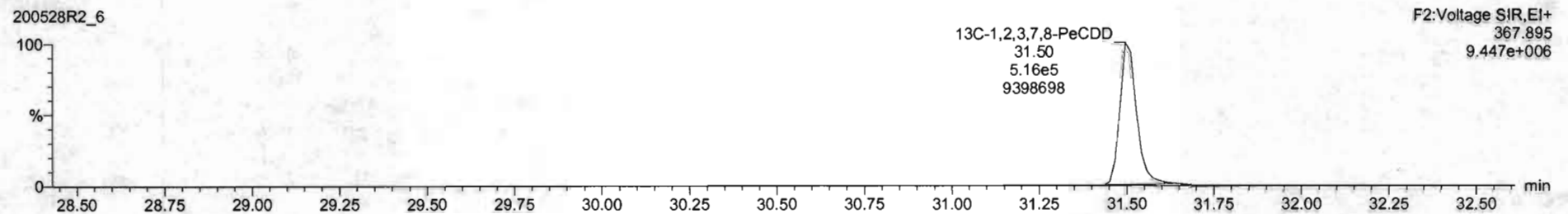


13C-1,2,3,7,8-PeCDD

200528R2\_6



200528R2\_6



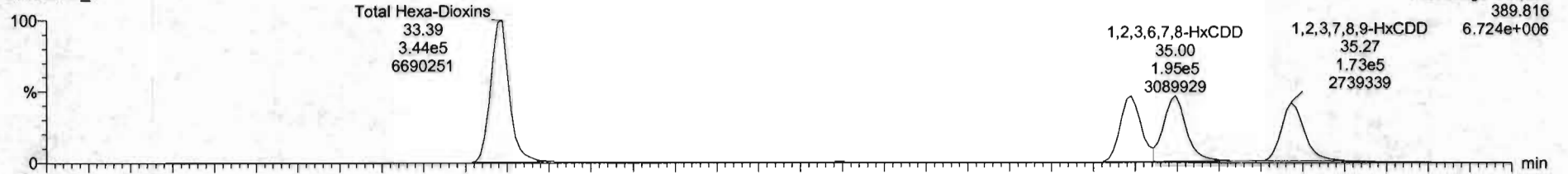
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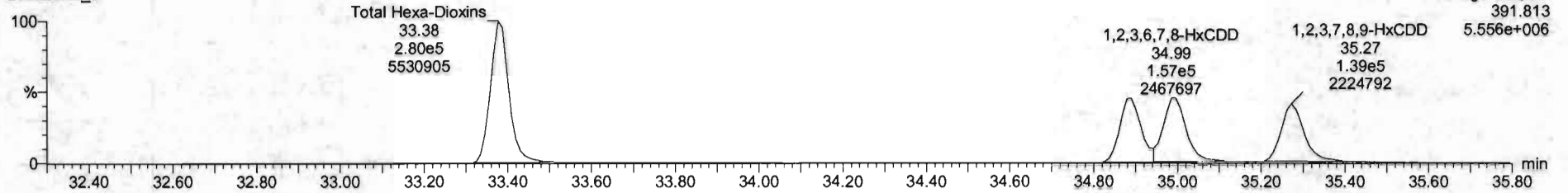
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**1,2,3,4,7,8-HxCDD**

200528R2\_6

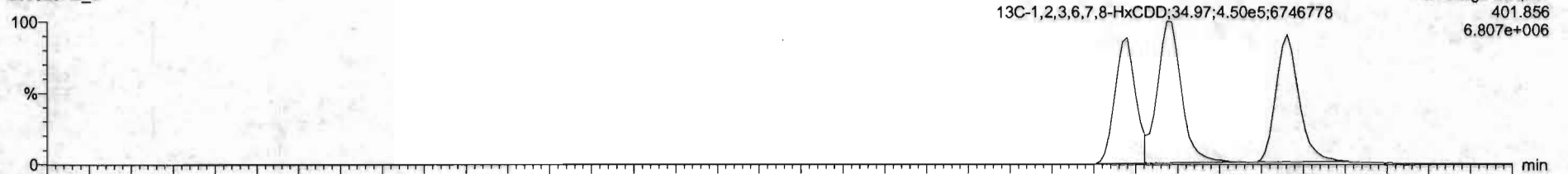


200528R2\_6

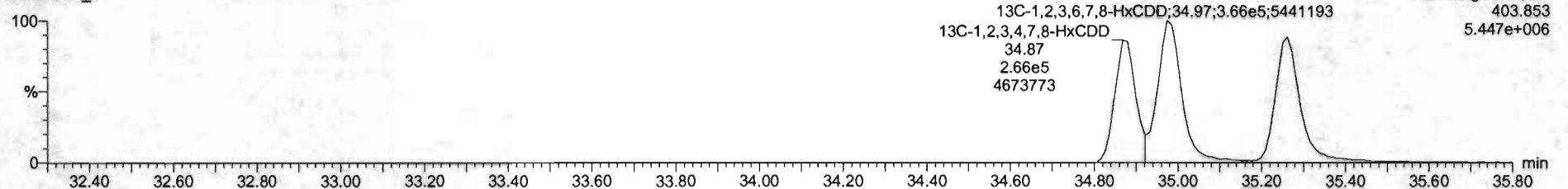


**13C-1,2,3,4,7,8-HxCDD**

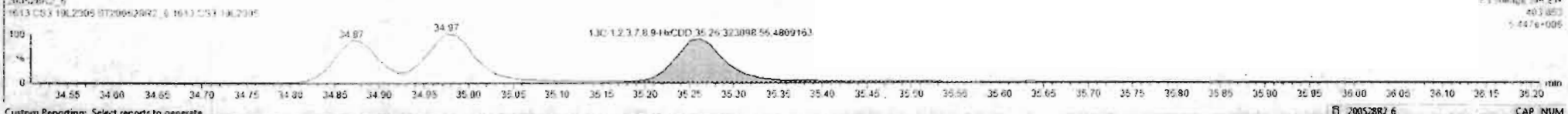
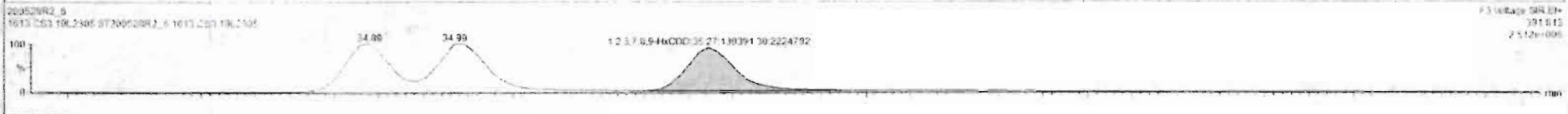
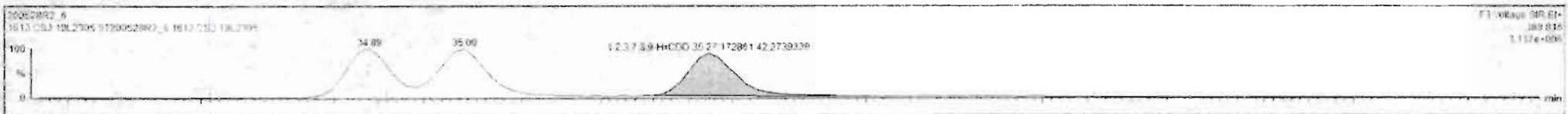
200528R2\_6



200528R2\_6



#	Name	Res#	RA	aly	RRT	sd/vol	RT	RRT	Conc.	%Rec	DL	LNPC
1	2,3,7,8-TCDD	1.06e5	0.91	NO	0.6203	1.000	26.59	1.001	10.2	102	0.0674	16.2
2	1,2,3,7,8-PeCDD	3.96e5	0.62	NO	0.9041	1.000	31.43	1.001	51.3	103	2.19e	51.3
3	1,2,3,4,7,8-HxCDD	7.25e5	1.22	NO	1.6334	1.000	34.89	1.000	52.1	104	0.230	52.1
4	1,2,3,6,7,8-HxCDD	3.51e5	1.24	NO	0.8921	1.000	34.20	1.001	48.3	96.8	0.271	48.3
5	1,2,3,7,8,9-HxCDF	3.12e5	1.24	NO	0.6669	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	2.29e5	1.02	NO	0.9638	1.000	30.81	1.000	51.2	102	0.209	51.2
7	CDD	4.53e5	0.38	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.68	1.001	9.96	99.8	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8905	1.000	30.25	1.000	51.2	102	0.130	51.2
10	1,2,3,7,8-PeCDF	4.81e5	1.57	NO	0.9348	1.000	31.22	1.000	49.3	101	0.130	49.3
11	1,2,3,4,7,8-HxCDF	3.98e5	1.21	NO	0.9548	1.000	34.07	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8622	1.000	34.13	1.000	51.9	104	0.179	51.9
13	1,2,3,4,6,7,8-HpCDF	3.88e5	1.25	NO	0.9341	1.000	34.72	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8767	1.000	35.63	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.84e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,6,5-HpCDF	2.00e5	0.80	NO	1.0123	1.000	38.34	1.000	52.7	105	0.258	52.7
17	CDF	4.44e5	0.86	NO	0.8045	1.000	41.97	1.000	102	102	0.161	102
18	1,2,3,7,8,9-HxCDF	1.16e5	0.79	NO	1.1503	1.000	28.96	1.025	101	101	0.0990	
19	1,2,3,4,6,7,8-HpCDD	6.48e5	0.64	NO	0.8450	1.000	31.60	1.215	100	100	0.205	
20	1,2,3,4,7,8-HxCDD	6.04e5	1.27	NO	0.7790	1.000	34.86	1.014	98.9	98.9	0.188	
21	1,2,3,6,7,8-HxCDD	6.19e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	





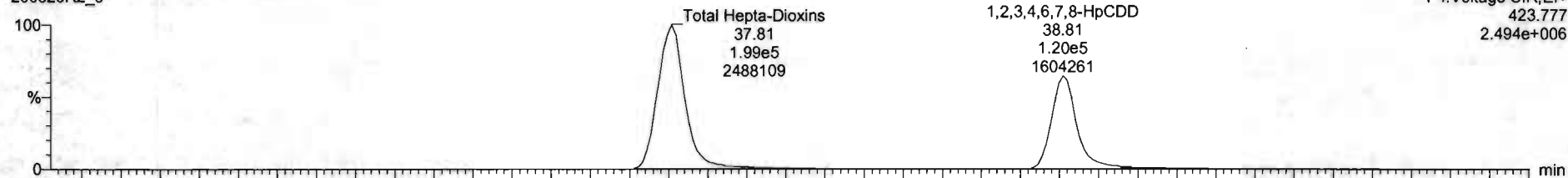
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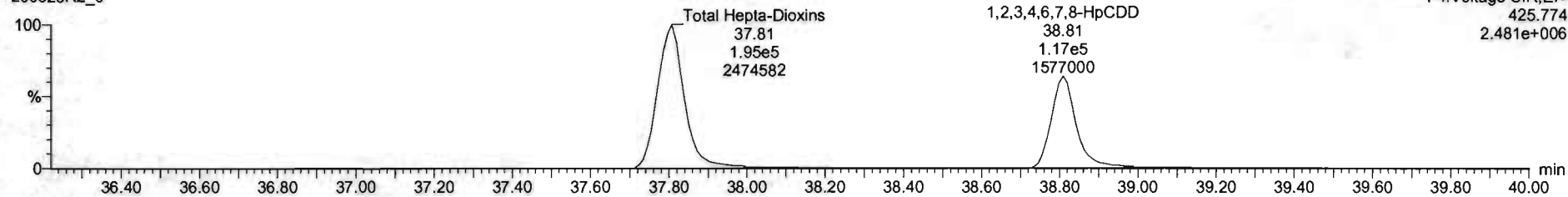
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1,2,3,4,6,7,8-HpCDD

200528R2\_6

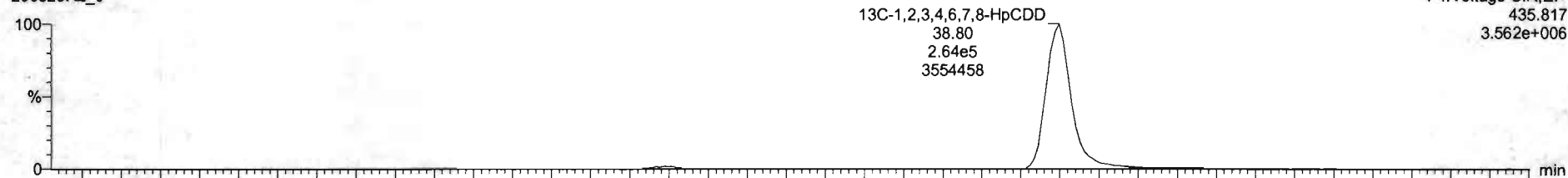


200528R2\_6

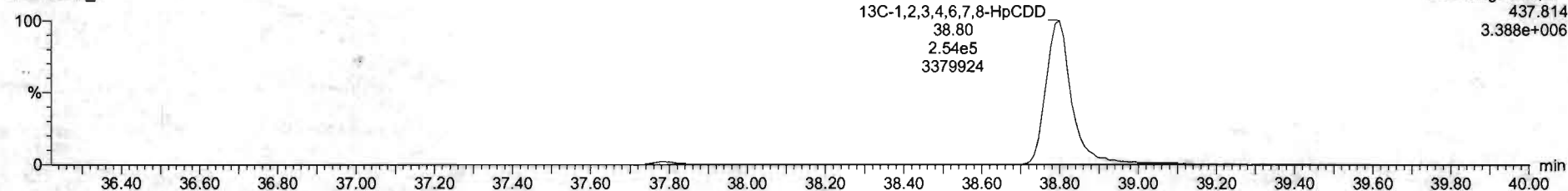


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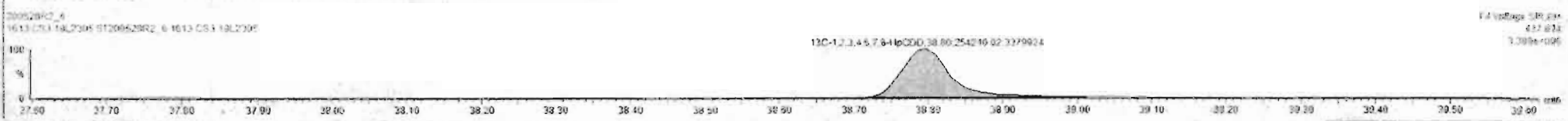
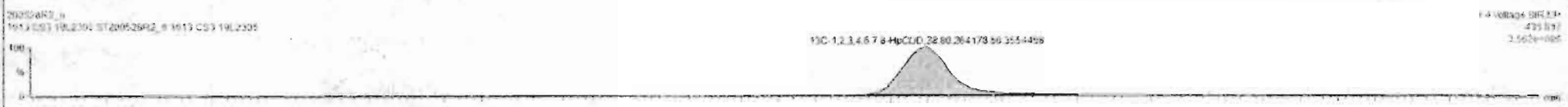
200528R2\_6



200528R2\_6



#	Name	Resp	RA	inj	RRF	wt/vol	HT	RR1	Conc	%Rec	DL	EMPC
1	1,2,3,4,5-HpCDD	1.96e5	0.81	NO	0.880	1.000	26.19	1.001	10.2	102	0.0664	10.0
2	1,2,3,4,6,7,8-HpCDD	3.95e5	0.82	NO	0.900	1.000	31.53	1.001	51.3	102	0.195	51.3
3	1,2,3,4,7,8-HpCDD	3.25e5	1.23	NO	1.034	1.000	34.89	1.006	52.1	104	0.255	52.1
4	1,2,3,4,7,8-HxCDD	3.51e5	1.24	NO	0.890	1.000	35.35	1.001	48.2	96.4	0.251	48.2
5	1,2,3,4,7,8,9-HxCDD	3.12e5	1.24	NO	1.525	1.000	35.27	1.000	49.9	99.8	0.204	49.9
6	1,2,3,4,6,7,8,9-HxCDD	3.95e5	1.03	NO	0.890	1.000	35.81	1.000	51.3	102	0.209	51.2
7	OCDF	4.53e5	0.98	NO	0.916	1.000	41.75	1.000	102	102	0.208	102
8	1,2,3,4,6,7,8,9-HxCDF	1.19e5	0.74	NO	0.710	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,4,7,8-HpCDF	5.72e5	1.57	NO	0.890	1.000	30.25	1.000	51.0	102	0.130	51.0
10	1,2,3,4,7,8-HxCDF	5.81e5	1.57	NO	0.934	1.000	31.00	1.000	50.3	101	0.130	50.3
11	1,2,3,4,7,8,9-HxCDF	3.58e5	1.21	NO	0.854	1.000	34.01	1.000	51.1	102	0.151	51.1
12	1,2,3,6,7,8-HpCDF	4.22e5	1.25	NO	0.850	1.000	34.13	1.000	51.9	104	0.170	51.9
13	1,2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.904	1.000	34.72	1.000	51.9	104	0.157	51.8
14	1,2,3,7,8-HpCDF	3.98e5	1.22	NO	0.870	1.000	35.03	1.000	51.1	102	0.209	51.1
15	1,2,3,4,6,7,8-HpCDF	2.54e5	0.98	NO	0.873	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.30e5	0.98	NO	1.012	1.000	38.14	1.000	52.7	108	0.288	52.7
17	OCDF	4.44e5	0.85	NO	0.800	1.000	41.87	1.000	102	102	0.161	102
18	13C-1,2,3,4,7,8-HpCDD	1.16e5	0.79	NO	1.150	1.000	29.56	1.026	101	101	0.0980	
19	13C-1,2,3,4,7,8-HxCDD	3.48e5	0.84	NO	0.940	1.000	33.50	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HpCDF	8.04e5	1.27	NO	0.770	1.000	34.58	1.014	98.9	98.9	0.188	
21	13C-1,2,3,6,7,8-HxCDD	8.15e5	1.23	NO	1.040	1.000	34.97	1.017	102	102	0.144	



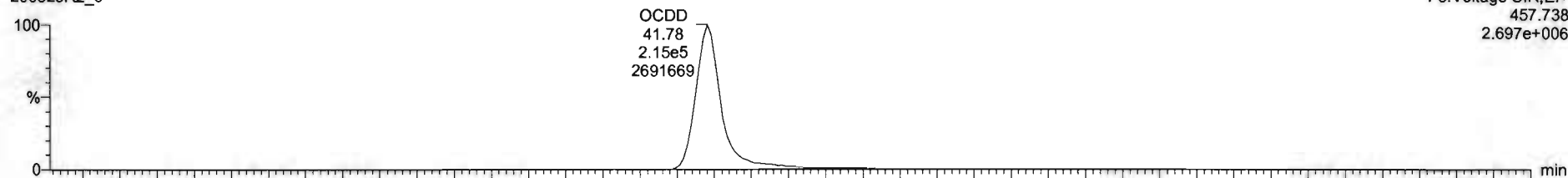
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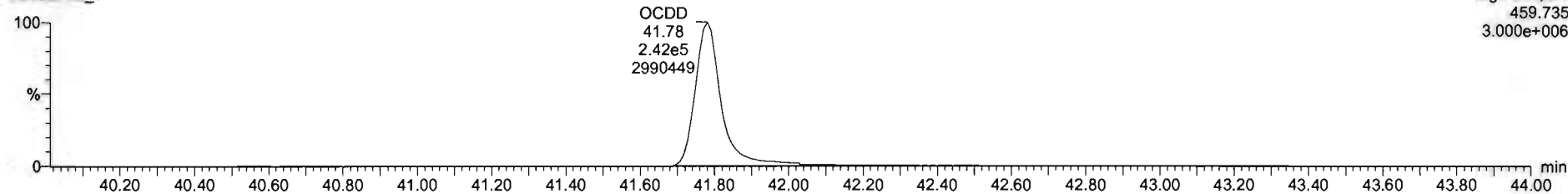
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**OCDD**

200528R2\_6

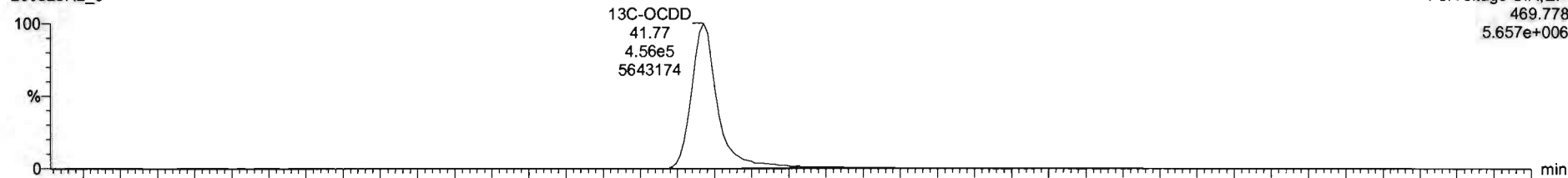


200528R2\_6

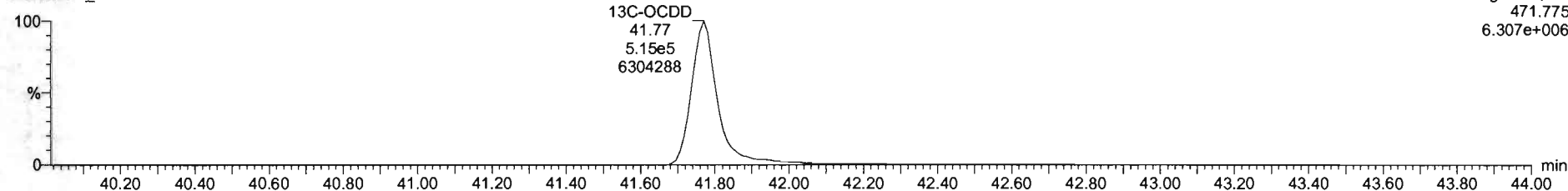


**13C-OCDD**

200528R2\_6



200528R2\_6







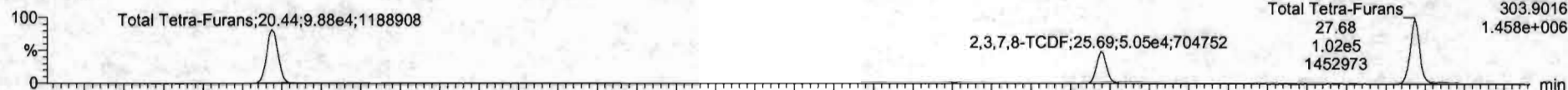
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### 2,3,7,8-TCDF

200528R2\_6

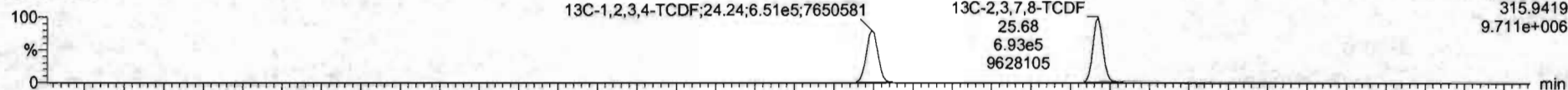


200528R2\_6

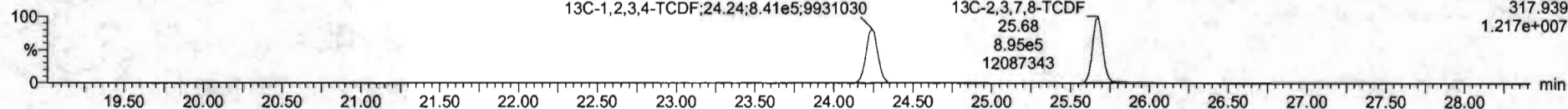


### 13C-2,3,7,8-TCDF

200528R2\_6

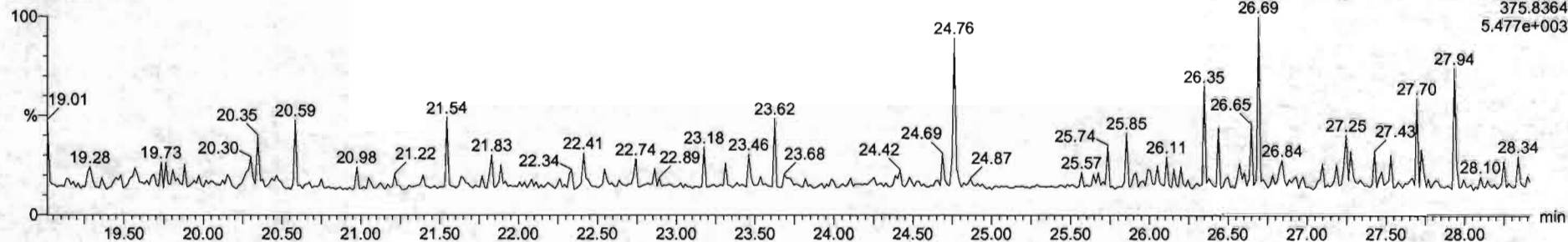


200528R2\_6



### DPE1

200528R2\_6



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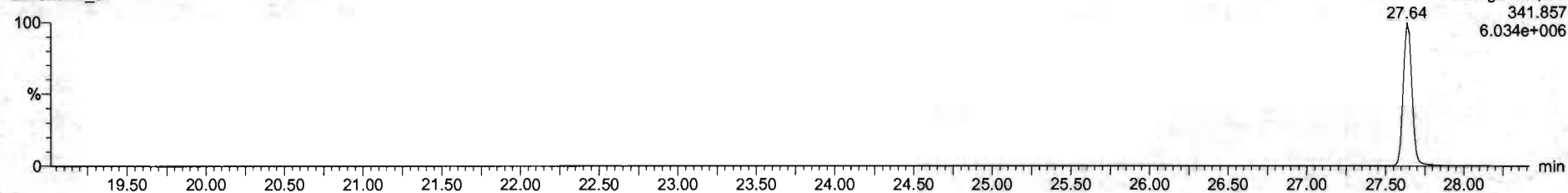
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1st Func. Penta-Furans

200528R2\_6

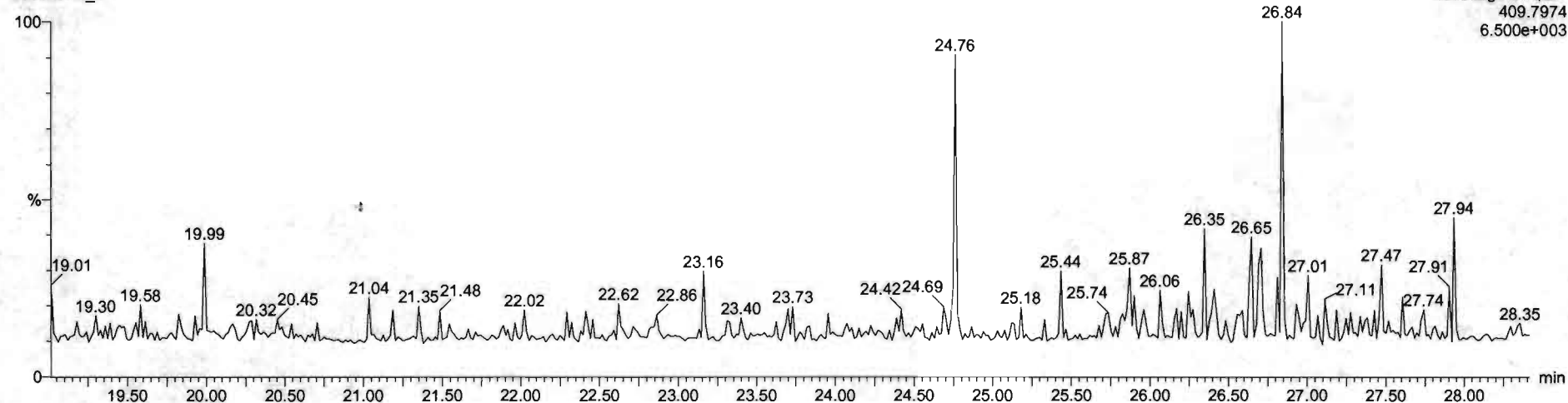


200528R2\_6



DPE6

200528R2\_6



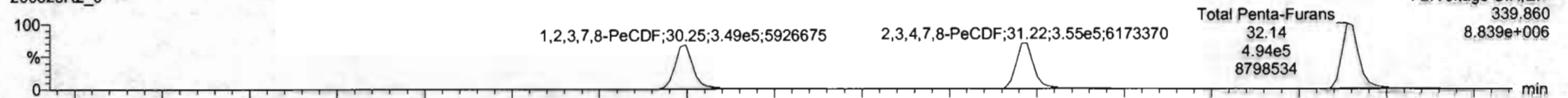
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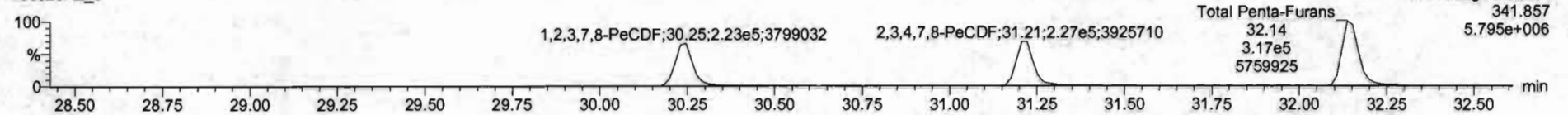
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**1,2,3,7,8-PeCDF**

200528R2\_6

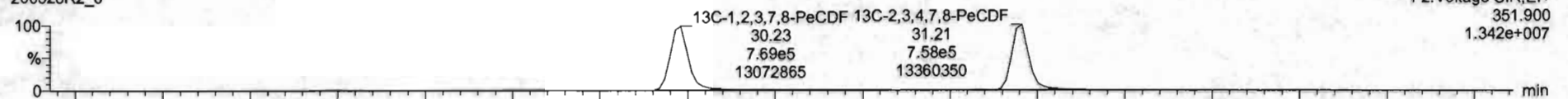


200528R2\_6

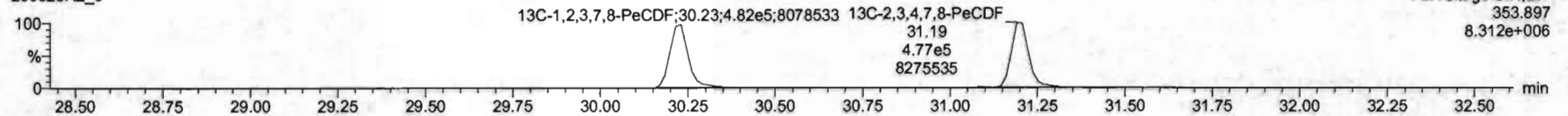


**13C-1,2,3,7,8-PeCDF**

200528R2\_6

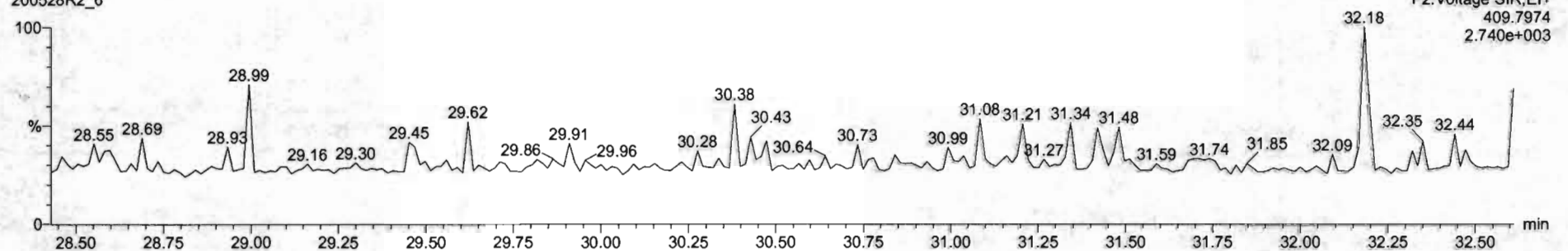


200528R2\_6



**DPE2**

200528R2\_6



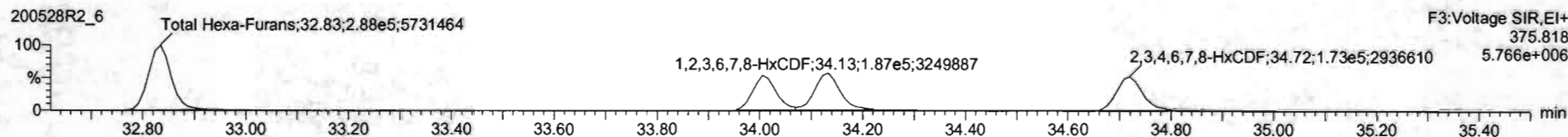
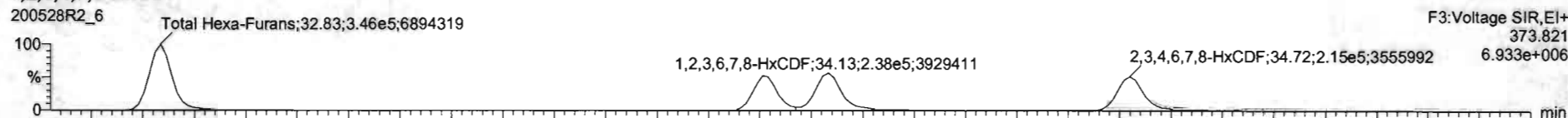


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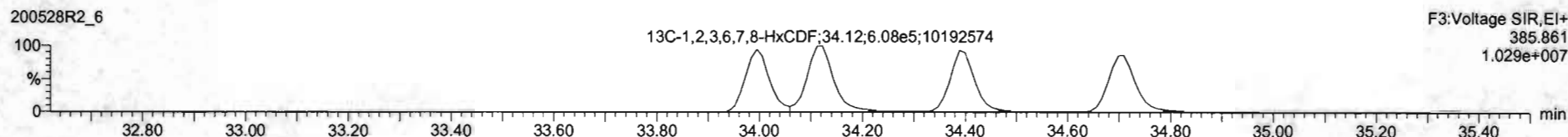
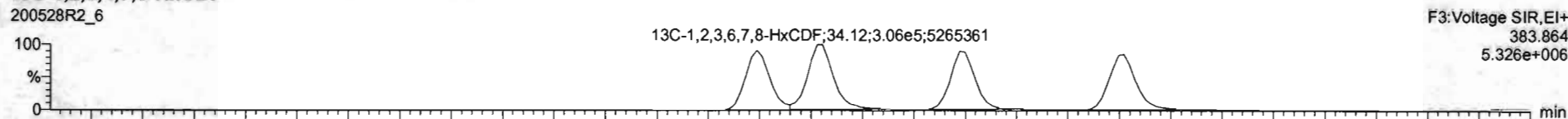
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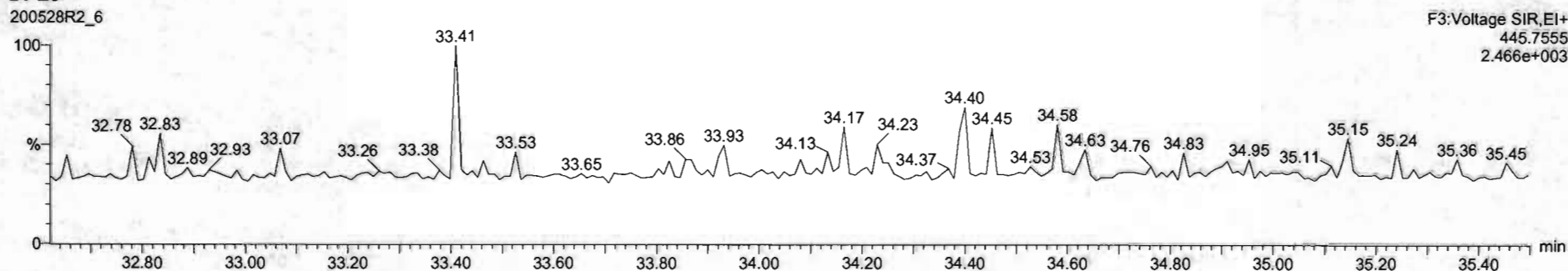
**1,2,3,4,7,8-HxCDF**



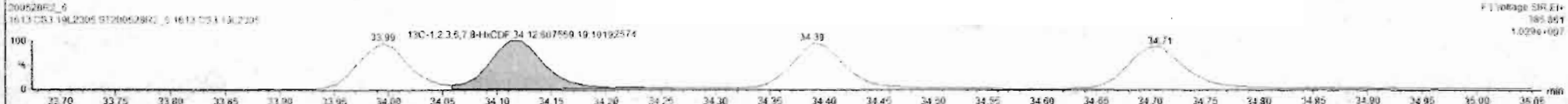
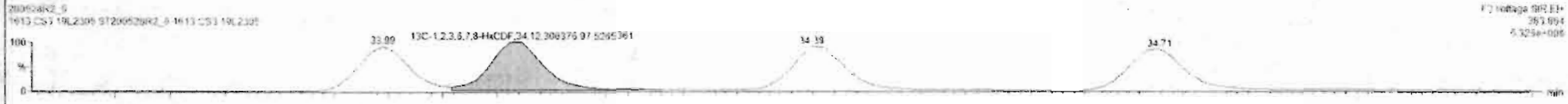
**13C-1,2,3,4,7,8-HxCDF**



**DPE3**



Name	Resp	RA	WV	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.06e5	0.81	NO	0.6082	1.000	26.55	1.001	102	102	0.0664	10.2
2 1,2,3,7,8-PeCDD	1.56e5	0.82	NO	0.6081	1.000	31.53	1.001	51.3	103	0.194	51.3
3 1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.89	1.000	52.1	104	0.220	52.1
4 1,2,3,6,7,8-HxCDD	0.31e5	1.24	NO	0.8923	1.000	25.00	1.001	48.3	96.6	0.231	48.3
5 1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.9269	1.000	35.27	1.000	49.9	99.8	0.264	49.9
6 1,2,3,4,6,7,8-HpCDD	0.26e5	1.01	NO	0.8838	1.000	26.61	1.000	51.2	102	0.209	51.2
7 OCDD	1.53e5	0.86	NO	0.5136	1.000	41.78	1.000	102	102	0.290	102
8 2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9 1,2,3,7,8-PeCDF	0.72e5	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.139	51.2
10 1,2,3,4,7,8-HxCDF	0.91e5	1.57	NO	0.9248	1.000	31.22	1.000	50.3	101	0.130	50.3
11 1,2,3,4,7,8-HxCDF	0.56e5	1.21	NO	0.8845	1.000	34.01	1.000	51.1	102	0.191	51.1
12 1,2,3,6,7,8-HxCDF	0.22e5	1.25	NO	0.8092	1.000	34.13	1.000	51.9	104	0.170	51.9
13 2,3,4,6,7,8-HxCDF	1.58e5	1.25	NO	0.9241	1.000	34.72	1.000	51.9	104	0.197	51.9
14 1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8707	1.000	35.83	1.000	51.1	102	0.201	51.1
15 1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
18 1,2,3,4,7,8,9-HpCDF	0.20e5	0.86	NO	1.0100	1.000	39.34	1.000	52.7	105	0.268	52.7
17 OCDF	1.44e5	0.86	NO	0.8085	1.000	41.97	1.000	102	102	0.141	102
19 1,2,3,7,8-TCDF	1.16e5	0.79	NO	1.1583	1.000	26.56	1.026	101	101	0.0890	
13C 1,2,3,7,8-PeCDD	0.48e5	0.64	NO	0.8490	1.000	31.50	1.215	100	100	0.235	
20 13C-1,2,3,7,8-HxCDD	0.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.188	
21 13C-1,2,3,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	





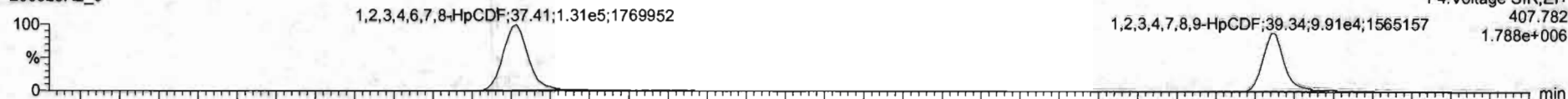
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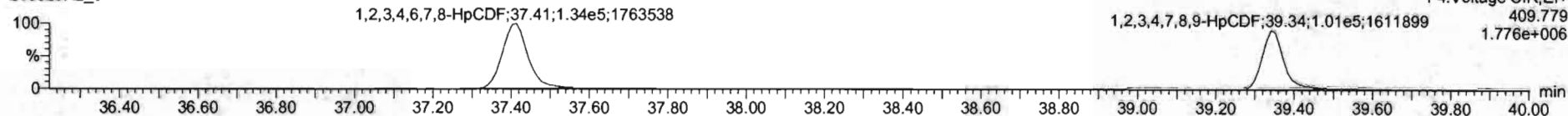
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_6

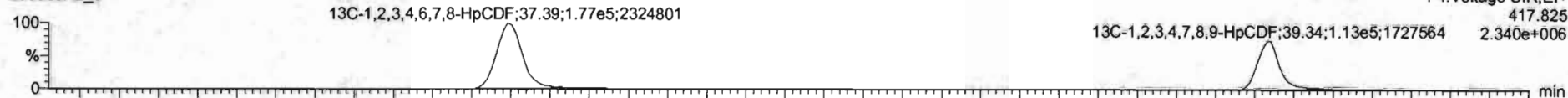


200528R2\_6

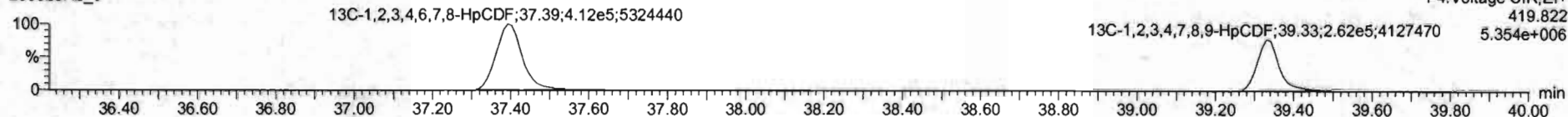


**13C-1,2,3,4,6,7,8-HpCDF**

200528R2\_6

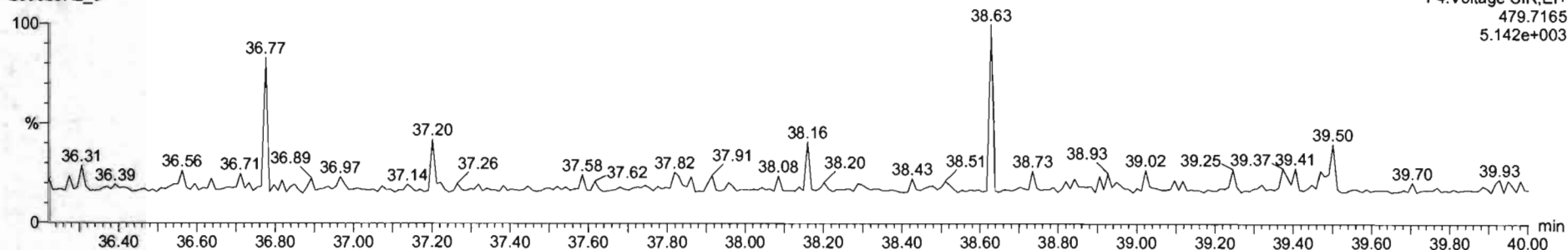


200528R2\_6



**DPE4**

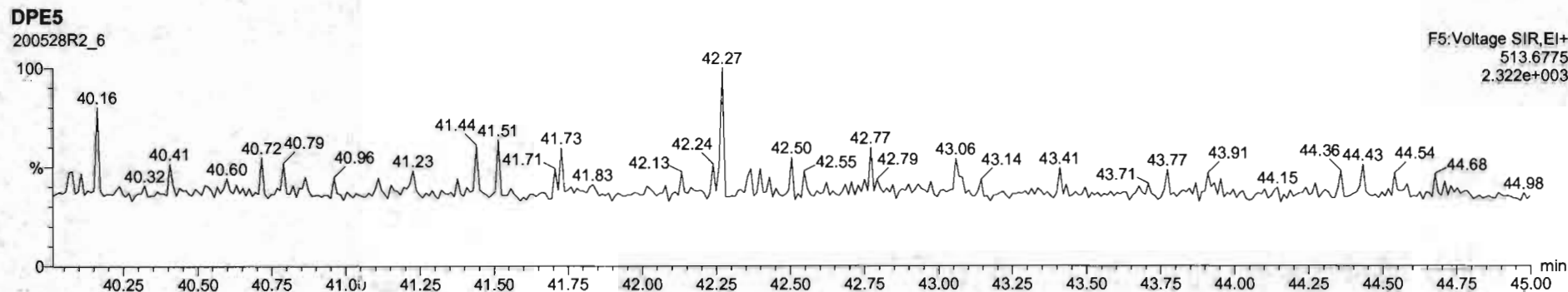
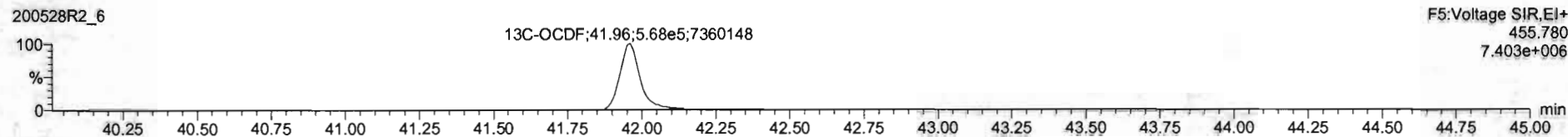
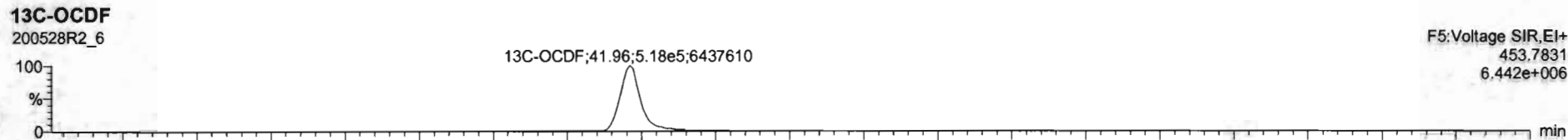
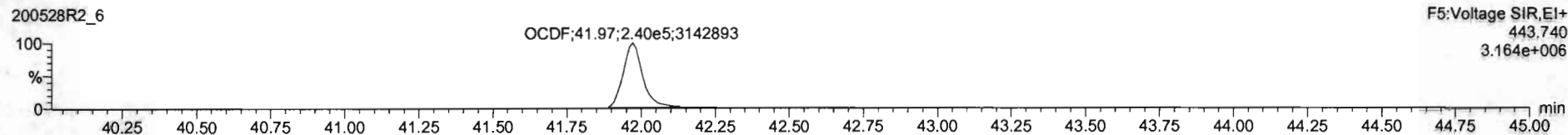
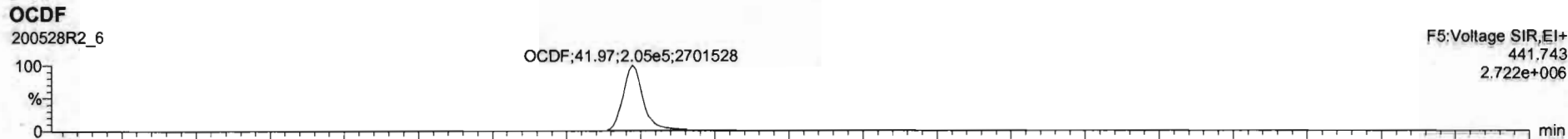
200528R2\_6



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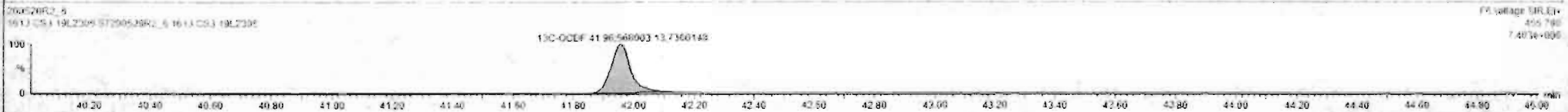
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Name: 200528R2\_6, Date: 28-May-2020, Time: 15:58:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305





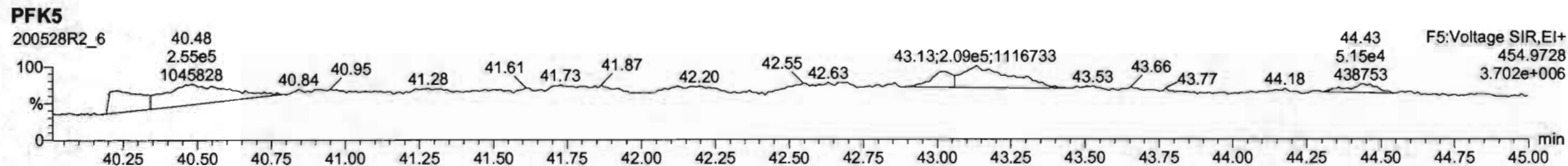
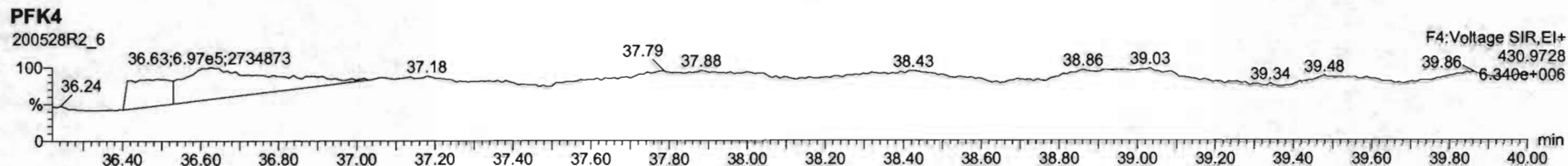
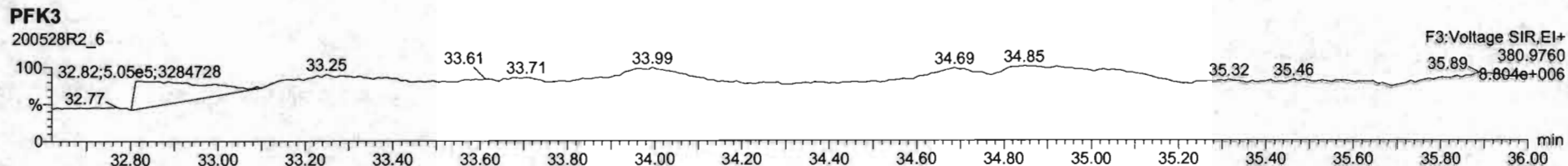
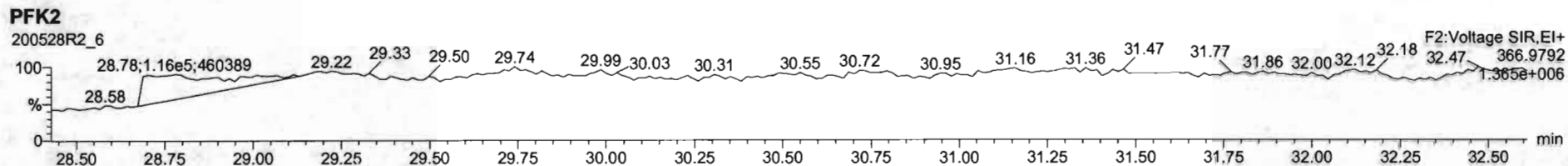
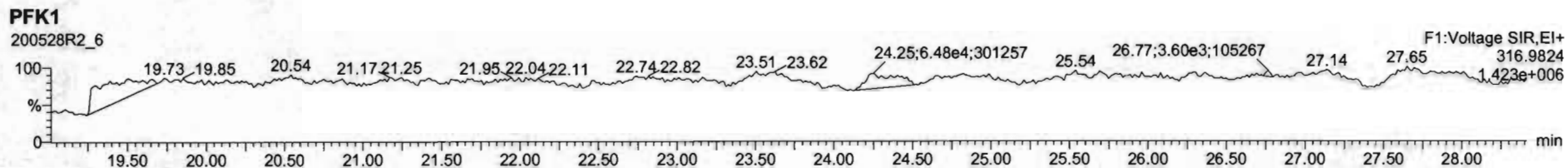
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2	1,2,3,7,8-PeCDD	3.56e5	0.62	NO	0.8091	1.000	31.53	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.99	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	0.51e5	1.38	NO	0.8921	1.000	35.00	1.001	48.3	96.6	0.231	48.3
5	1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.8265	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HxCDD	1.06e5	1.01	NO	1.0639	1.000	35.91	1.000	73.2	102	0.109	73.2
7	OCDD	4.53e5	0.68	NO	0.9136	1.000	41.75	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.98	99.8	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8925	1.000	30.24	1.000	51.2	102	0.139	51.2
10	1,2,3,4,7,8-HxCDF	0.61e5	1.57	NO	0.9349	1.000	31.22	1.000	40.3	101	0.150	40.3
11	1,2,3,4,7,8-HxCDF	3.56e5	1.31	NO	0.8545	1.000	34.81	1.000	41.1	103	0.191	41.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8282	1.000	34.13	1.000	51.9	104	0.176	51.9
13	2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.9341	1.000	34.72	1.000	51.8	104	0.187	51.8
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8787	1.000	34.83	1.000	41.1	102	0.291	41.1
15	1,2,3,4,6,7,8-HxCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HxCDF	2.00e5	0.98	NO	1.0128	1.000	39.14	1.000	52.7	102	0.258	52.7
17	OCDF	4.44e5	0.85	NO	0.6085	1.000	41.97	1.000	102	102	0.191	102
18	13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1523	1.000	26.19	1.024	101	101	0.0680	
19	13C-1,2,3,7,8-PeCDD	6.48e5	0.64	NO	0.8456	1.000	31.53	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	0.64e5	1.27	NO	0.7790	1.000	34.98	1.014	98.9	98.9	0.168	
21	13C-1,2,3,6,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305





Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

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Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

*GRB 05/29/2020*

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

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.888	1.000	26.575	26.57	1.001	1.001	11.080	111	0.0262	11.1
2	2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.908	1.000	31.518	31.51	1.001	1.000	56.429	113	0.0622	56.4
3	3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.03	1.000	34.879	34.88	1.000	1.000	58.033	116	0.101	58.0
4	4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.892	1.000	34.975	34.99	1.000	1.000	57.963	116	0.105	58.0
5	5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.887	1.000	35.262	35.26	1.000	1.000	57.107	114	0.119	57.1
6	6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.864	1.000	38.799	38.80	1.000	1.000	55.832	112	0.168	55.8
7	7 OCDD	5.15e5	0.88	NO	0.914	1.000	41.759	41.78	1.000	1.001	111.26	111	0.171	111
8	8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.751	1.000	25.671	25.68	1.001	1.001	11.386	114	0.0333	11.4
9	9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.893	1.000	30.236	30.23	1.001	1.001	55.728	111	0.0942	55.7
10	10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.935	1.000	31.222	31.21	1.001	1.000	60.229	120	0.0851	60.2
11	11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.884	1.000	33.984	33.99	1.000	1.000	55.936	112	0.113	55.9
12	12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.889	1.000	34.122	34.12	1.000	1.000	56.761	114	0.107	56.8
13	13 2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.934	1.000	34.732	34.71	1.001	1.000	56.468	113	0.117	56.5
14	14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.871	1.000	35.614	35.62	1.000	1.000	55.299	111	0.174	55.3
15	15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.873	1.000	37.430	37.40	1.001	1.000	54.506	109	0.182	54.5
16	16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.01	1.000	39.331	39.34	1.000	1.000	57.740	115	0.198	57.7
17	17 OCDF	5.22e5	0.87	NO	0.806	1.000	41.951	41.96	1.000	1.000	113.77	114	0.201	114
18	18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.16	1.000	26.584	26.54	1.026	1.025	91.859	91.9	0.0837	
19	19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.849	1.000	31.784	31.50	1.227	1.216	88.503	88.5	0.117	
20	20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.779	1.000	34.874	34.87	1.014	1.014	88.587	88.6	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.02	1.000	34.987	34.97	1.017	1.017	88.739	88.7	0.138	
22	22 13C-1,2,3,7,8,9-HxCDD	7.39e5	1.24	NO	0.903	1.000	35.259	35.25	1.025	1.025	87.785	87.8	0.155	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.53e5	1.04	NO	0.689	1.000	38.787	38.79	1.128	1.128	86.116	86.1	0.160	
24	24 13C-OCDD	1.01e6	0.89	NO	0.652	1.000	41.813	41.76	1.216	1.214	166.64	83.3	0.212	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.06	1.000	25.623	25.65	0.989	0.990	90.815	90.8	0.116	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.61	NO	0.838	1.000	30.163	30.21	1.165	1.167	89.693	89.7	0.169	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.57	NO	0.817	1.000	31.119	31.19	1.202	1.204	90.666	90.7	0.174	
28	28 13C-1,2,3,4,7,8-HxCDF	8.51e5	0.51	NO	1.01	1.000	34.004	33.98	0.989	0.988	90.589	90.6	0.222	
29	29 13C-1,2,3,6,7,8-HxCDF	1.01e6	0.51	NO	1.17	1.000	34.127	34.11	0.992	0.992	92.509	92.5	0.191	
30	30 13C-2,3,4,6,7,8-HxCDF	8.50e5	0.51	NO	1.02	1.000	34.702	34.70	1.009	1.009	89.276	89.3	0.219	
31	31 13C-1,2,3,7,8,9-HxCDF	7.33e5	0.50	NO	0.860	1.000	35.603	35.61	1.035	1.036	91.476	91.5	0.260	

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.33e5	0.43	NO	0.774	1.000	37.353	37.39	1.086	1.087	87.682	87.7	0.235	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	0.42	NO	0.521	1.000	39.386	39.33	1.145	1.144	83.716	83.7	0.350	
34	34 13C-OCDF	1.14e6	0.88	NO	0.746	1.000	41.985	41.95	1.221	1.220	163.83	81.9	0.148	
35	35 37Cl-2,3,7,8-TCDD	1.28e5			1.04	1.000	26.615	26.57	1.028	1.026	10.416	104	0.0149	
36	36 13C-1,2,3,4-TCDD	1.19e6	0.81	NO	1.00	1.000	26.000	25.90	1.000	1.000	100.00	100	0.0967	
37	37 13C-1,2,3,4-TCDF	1.80e6	0.79	NO	1.00	1.000	24.360	24.22	1.000	1.000	100.00	100	0.123	
38	38 13C-1,2,3,4,6,9-HxCDF	9.32e5	0.51	NO	1.00	1.000	34.420	34.39	1.000	1.000	100.00	100	0.223	



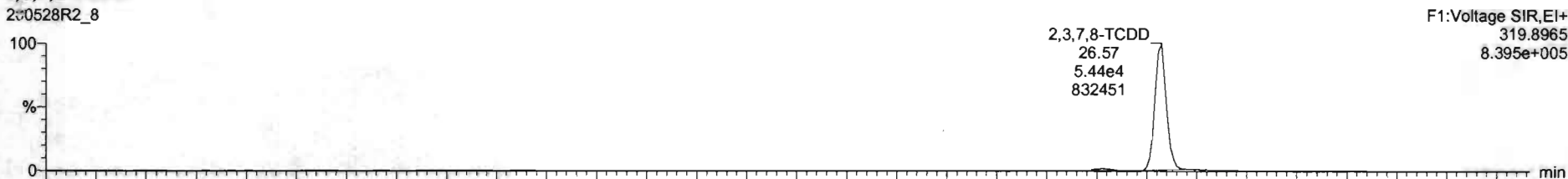
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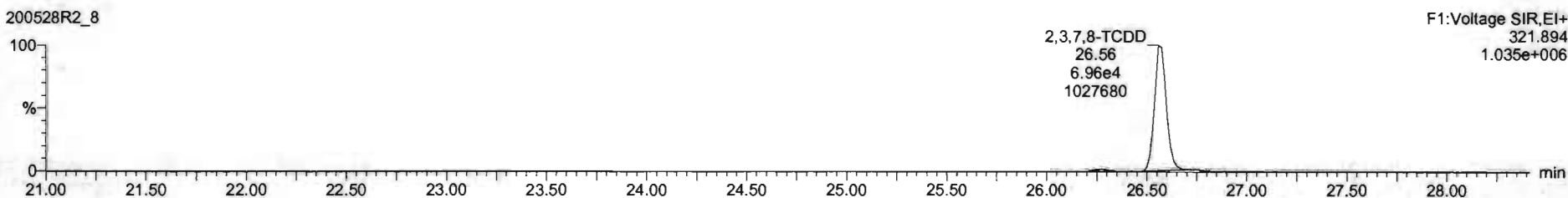
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Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

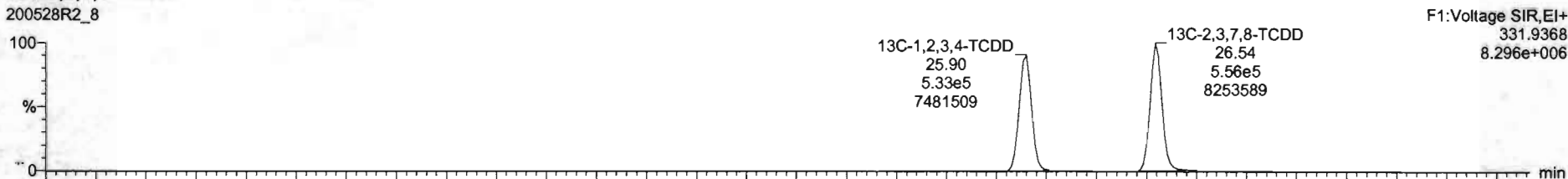
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200528R2\_8



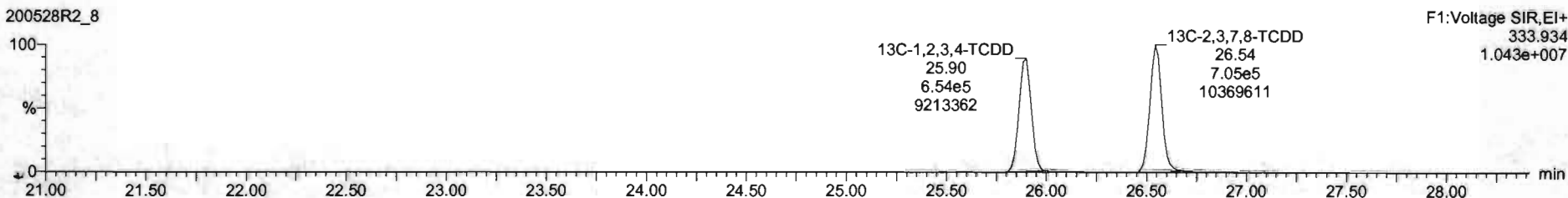
200528R2\_8



**13C-2,3,7,8-TCDD**  
200528R2\_8



200528R2\_8



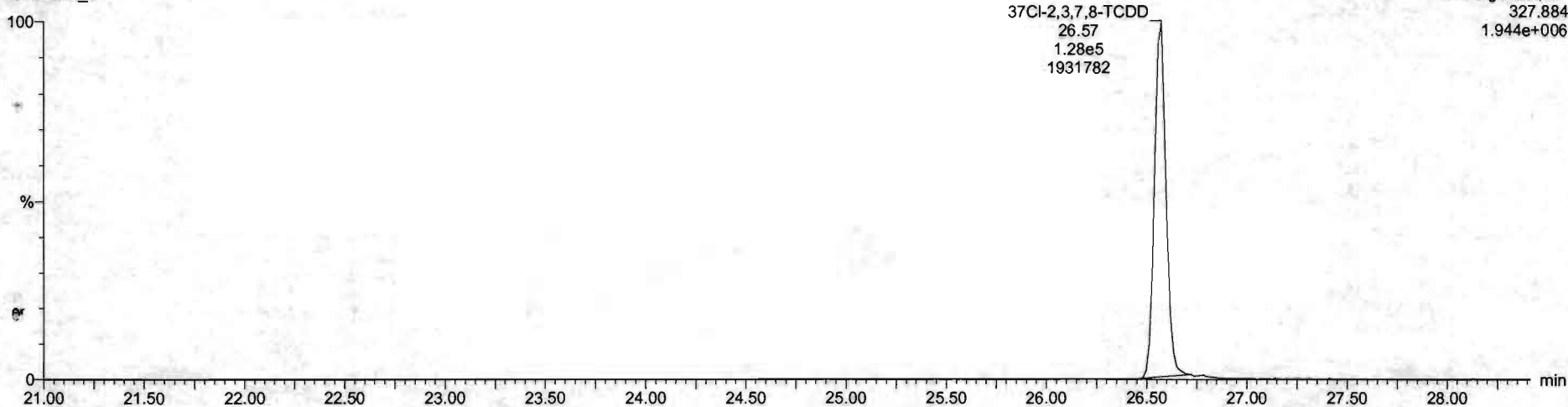
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

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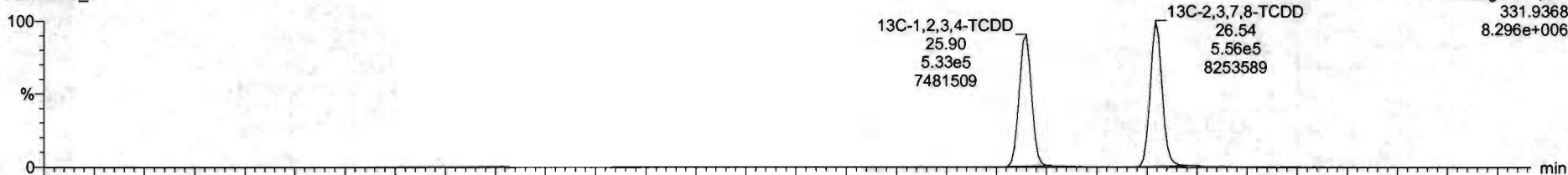
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200528R2\_8

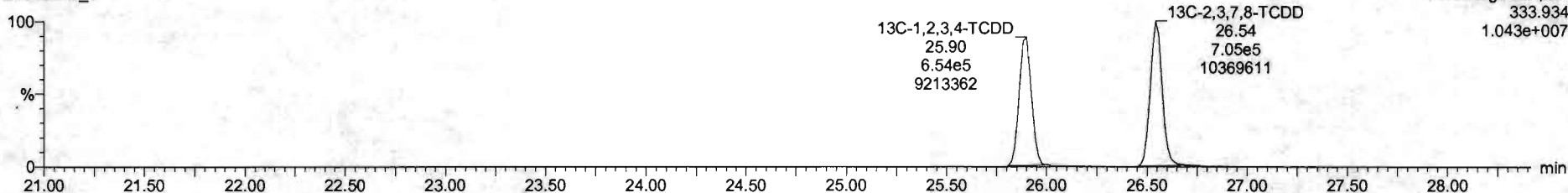


**13C-1,2,3,4-TCDD**

200528R2\_8



200528R2\_8



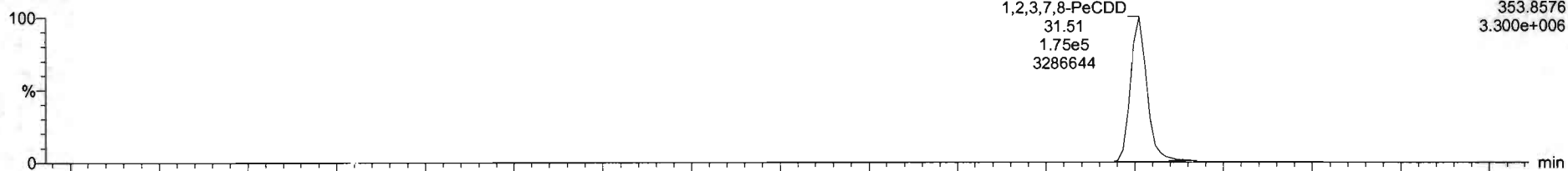
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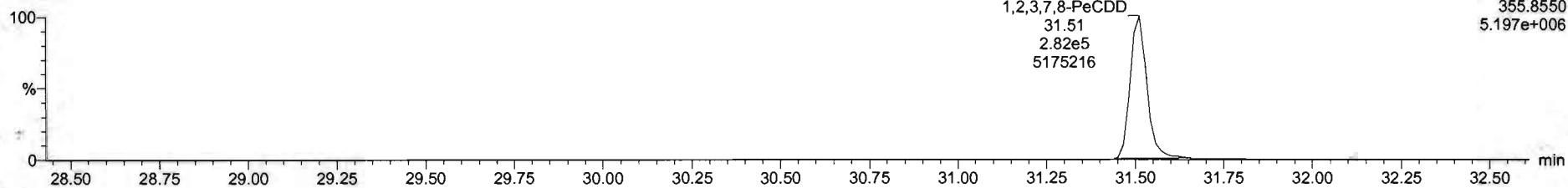
Name: 200528R2\_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2\_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200528R2\_8

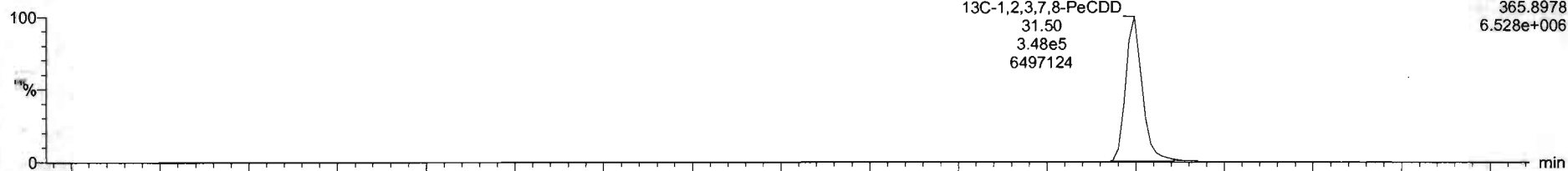


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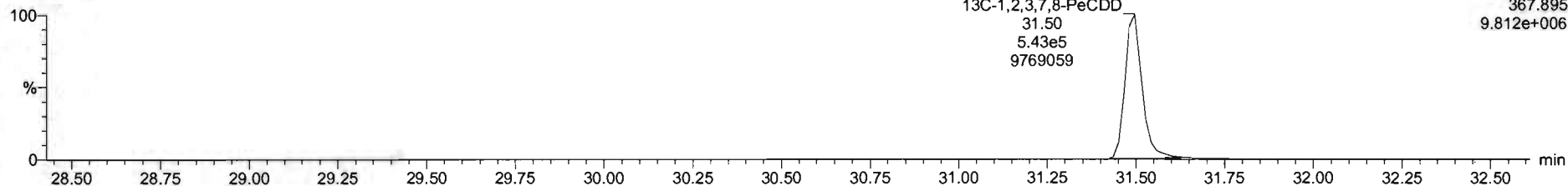


**13C-1,2,3,7,8-PeCDD**

200528R2\_8



200528R2\_8



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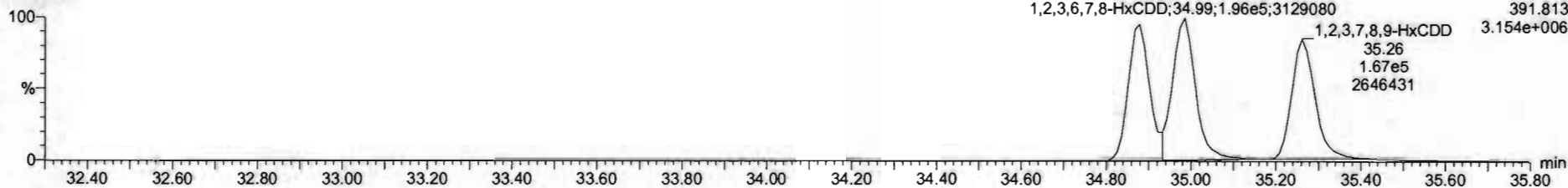
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**1,2,3,4,7,8-HxCDD**

200528R2\_8

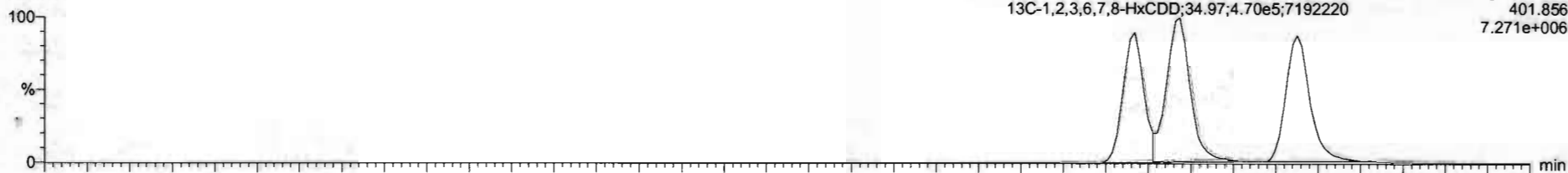


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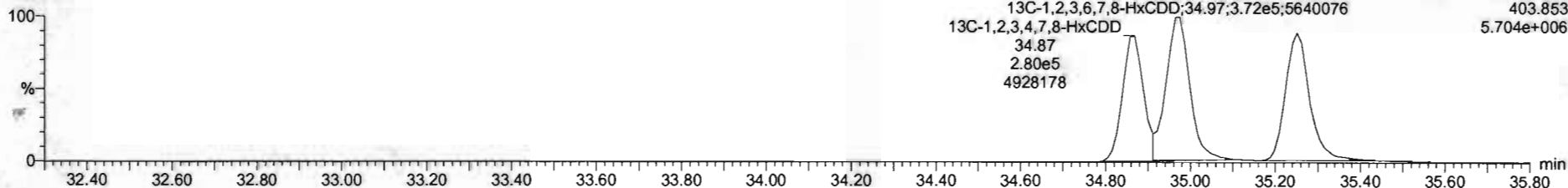


**13C-1,2,3,4,7,8-HxCDD**

200528R2\_8

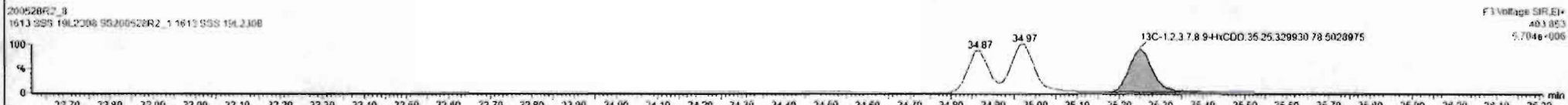
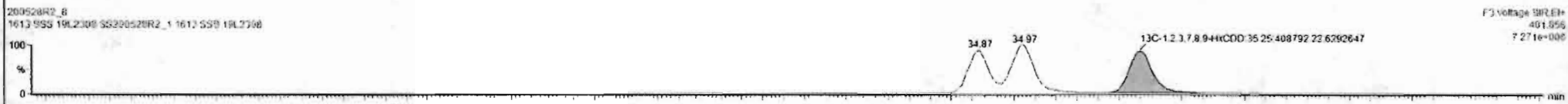
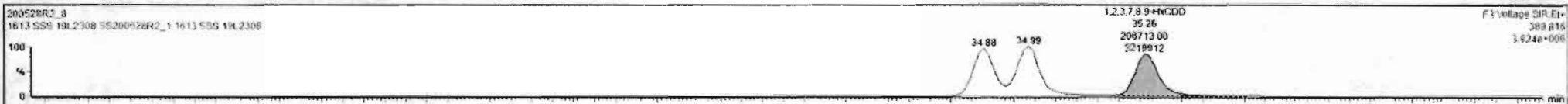


200528R2\_8





#	Name	Resp	RA	nby	RRF	wthvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.6883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.72	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.6969	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.57e5	1.02	NO	0.8639	1.000	36.50	1.000	55.6	112	0.160	55.6
7	OCDD	5.24e5	0.85	NO	0.9136	1.000	41.78	1.001	113	113	0.171	113
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	113	0.0942	55.7
10	2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	21.21	1.000	62.1	124	0.0853	62.1
11	1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	115	0.114	58.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8892	1.000	34.12	1.000	59.1	116	0.108	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.52e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	115	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.190	59.2
17	OCDF	5.22e5	0.97	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1583	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7750	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.28	NO	1.0187	1.000	34.97	1.017	88.7	88.7	0.136	



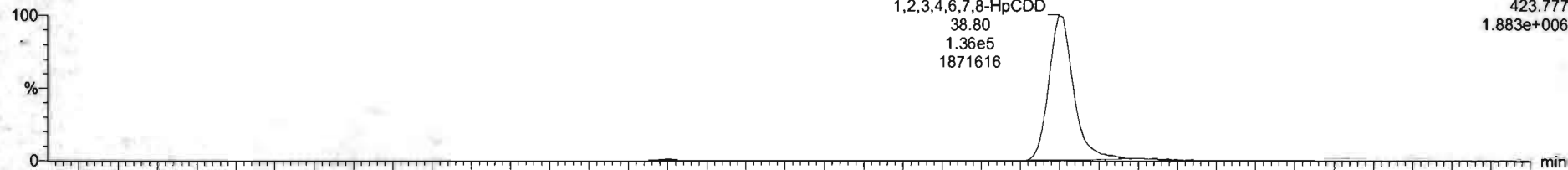
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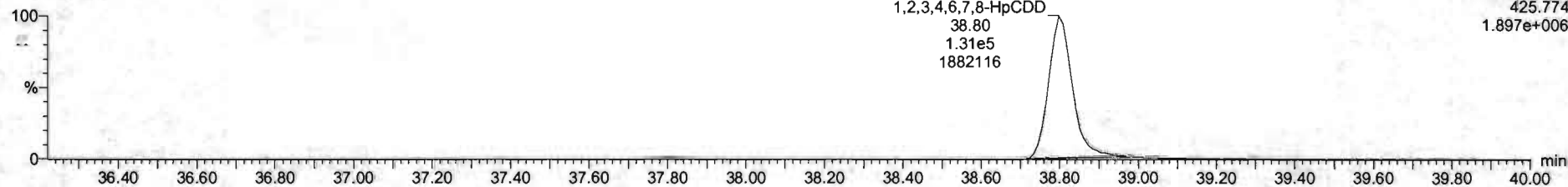
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**1,2,3,4,6,7,8-HpCDD**

200528R2\_8

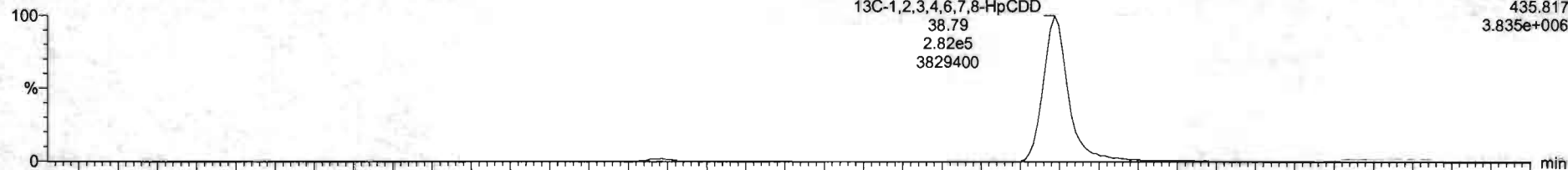


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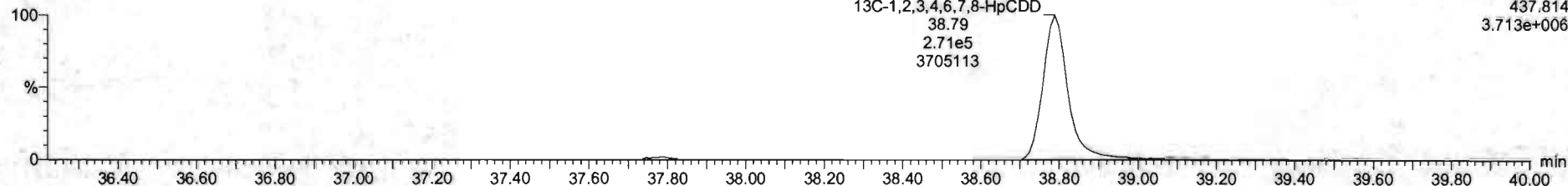


**13C-1,2,3,4,6,7,8-HpCDD**

200528R2\_8



200528R2\_8





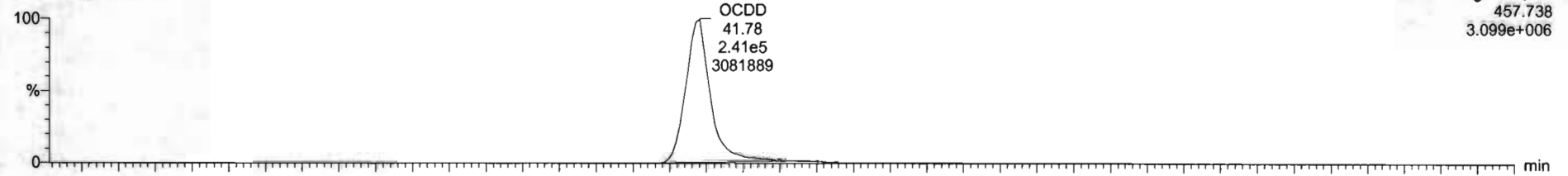
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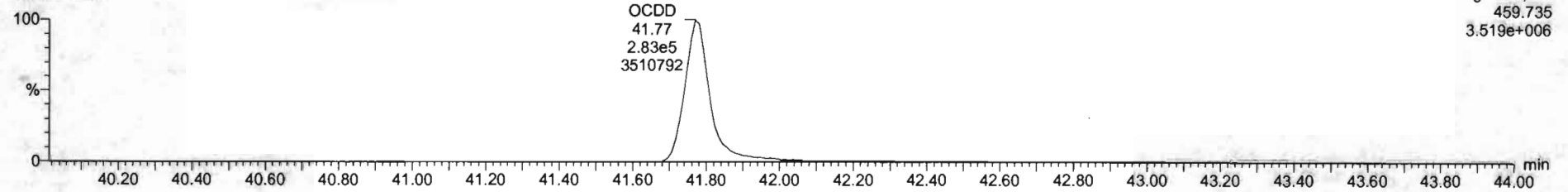
OCDD

200528R2\_8



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3.099e+006

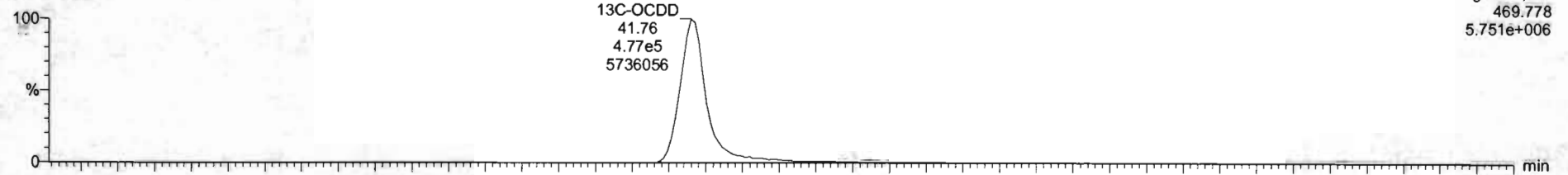
200528R2\_8



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3.519e+006

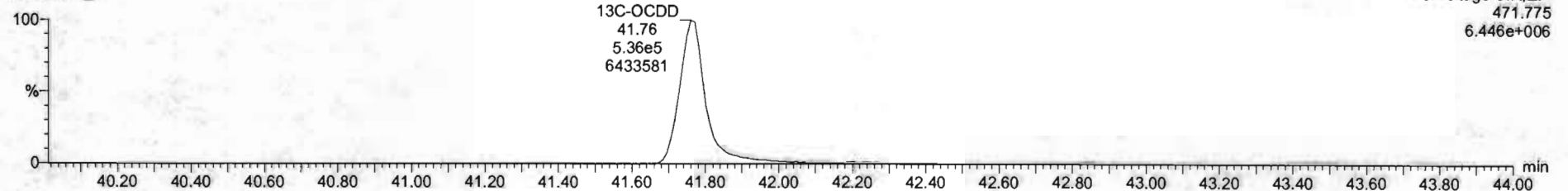
13C-OCDD

200528R2\_8



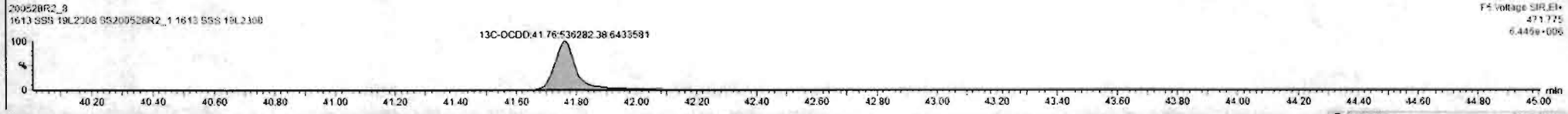
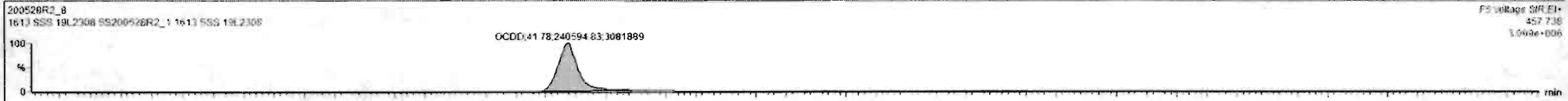
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200528R2\_8



F5: Voltage SIR, EI+  
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6.446e+006

#	Name	Resp	RA	dy	RRF	wtVol	RT	RRT	Conc	%Rec	OL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.78	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0252	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.1
3	1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.38e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	56.8
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	55.6
7	OCDD	5.15e5	0.88	NO	0.9138	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.46e5	0.75	NO	0.7510	1.000	25.88	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.77e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10	2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	31.21	1.000	62.1	124	0.0853	62.1
11	1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8545	1.000	33.99	1.000	58.9	115	0.114	58.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8852	1.000	34.12	1.000	59.1	115	0.100	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.21	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	119	0.193	59.2
17	OCDF	5.22e5	0.87	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0627	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



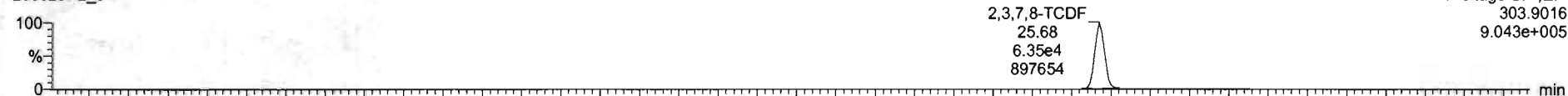
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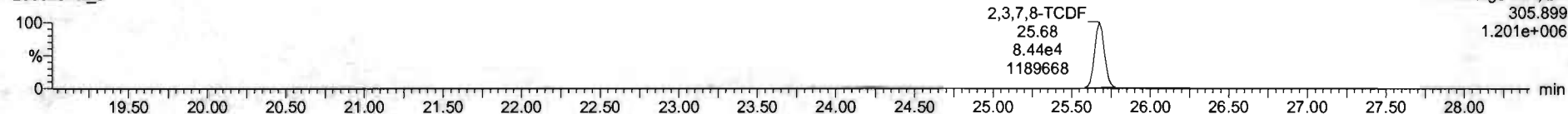
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**2,3,7,8-TCDF**

200528R2\_8

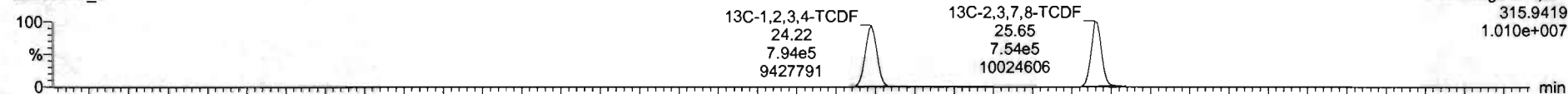


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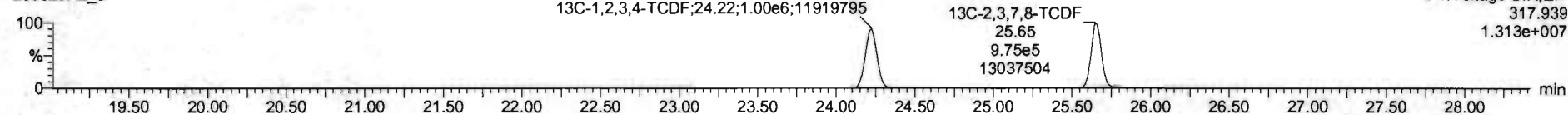


**13C-2,3,7,8-TCDF**

200528R2\_8

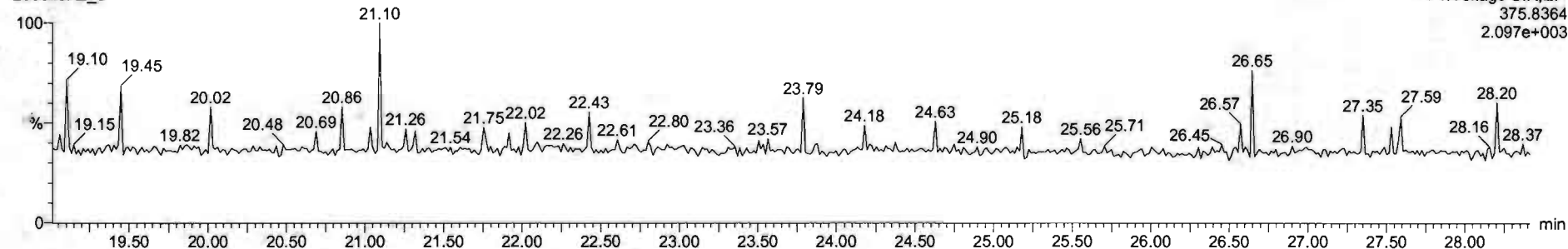


200528R2\_8



**DPE1**

200528R2\_8



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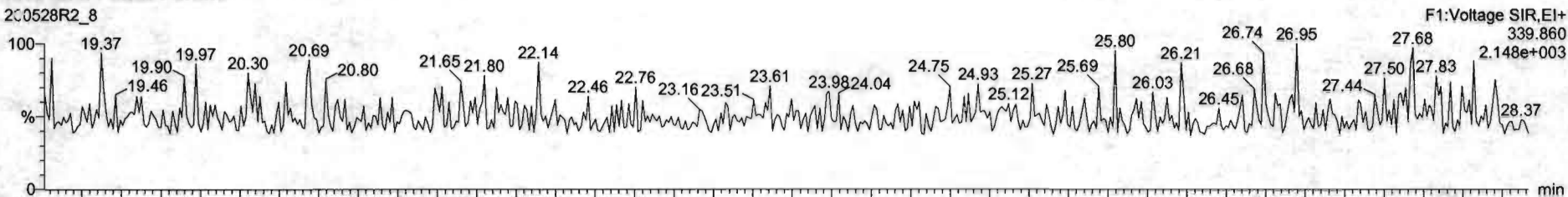
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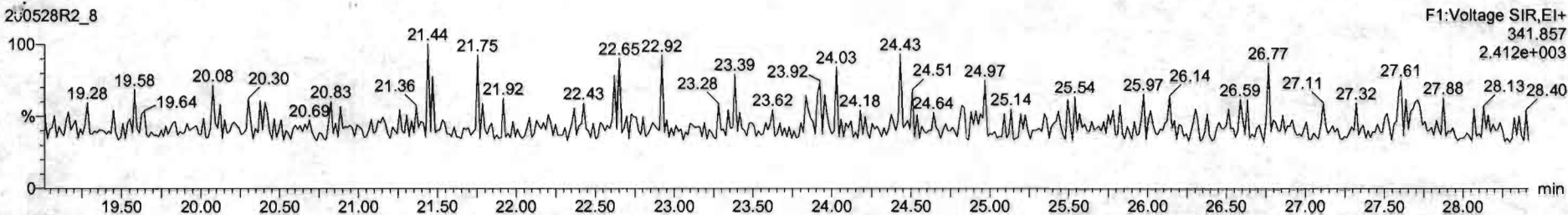
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1st Func. Penta-Furans

200528R2\_8

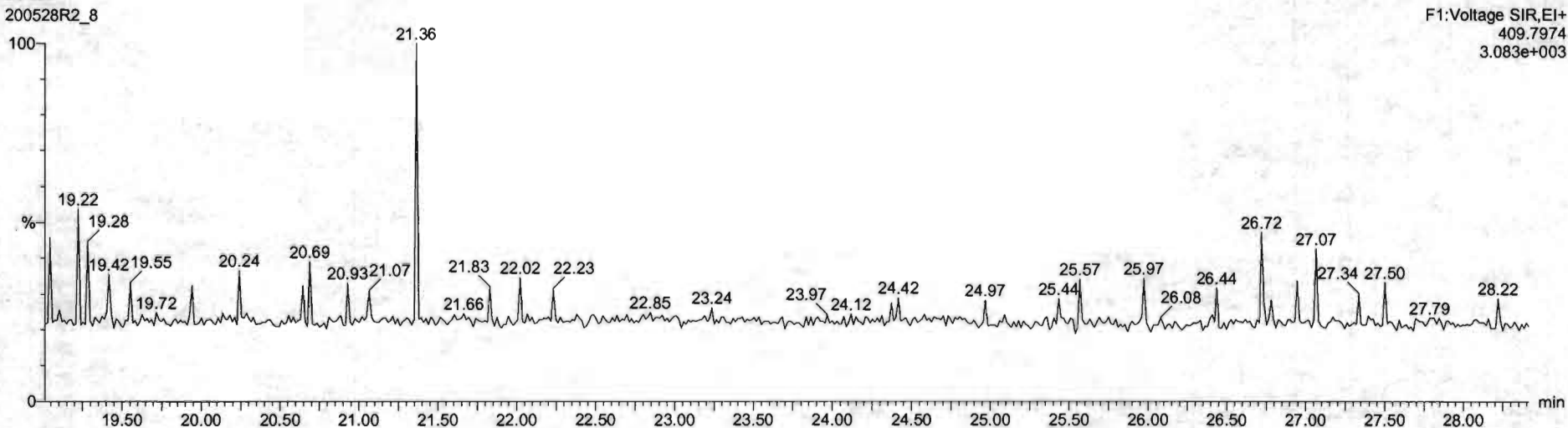


200528R2\_8



DPE6

200528R2\_8





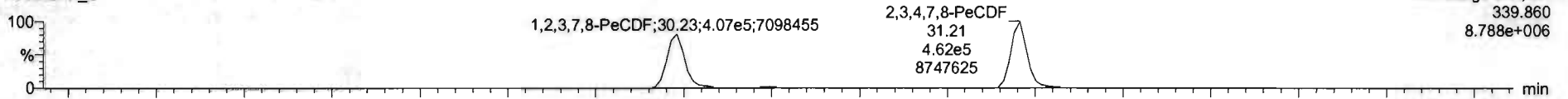
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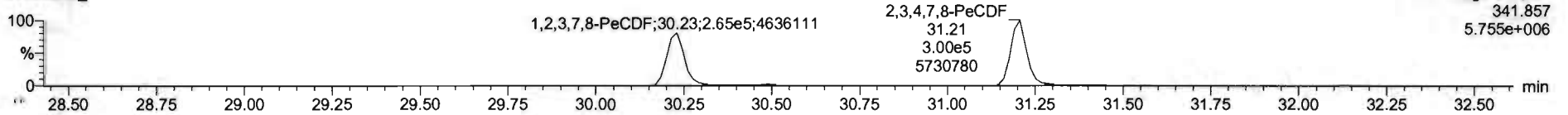
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**1,2,3,7,8-PeCDF**

200528R2\_8

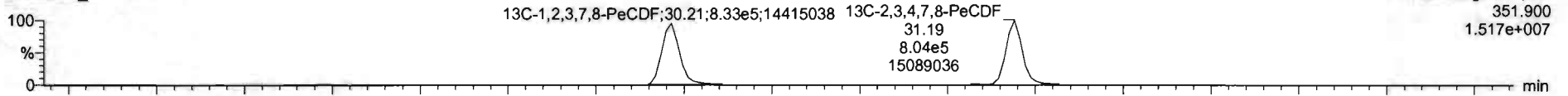


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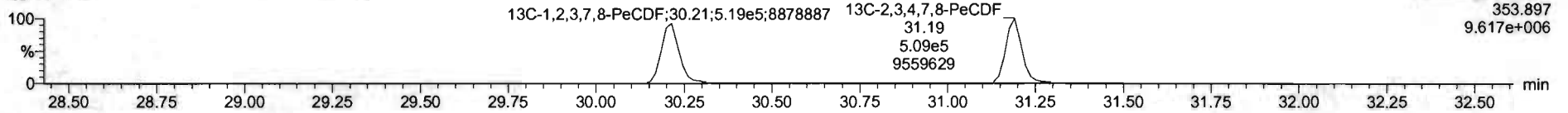


**13C-1,2,3,7,8-PeCDF**

200528R2\_8

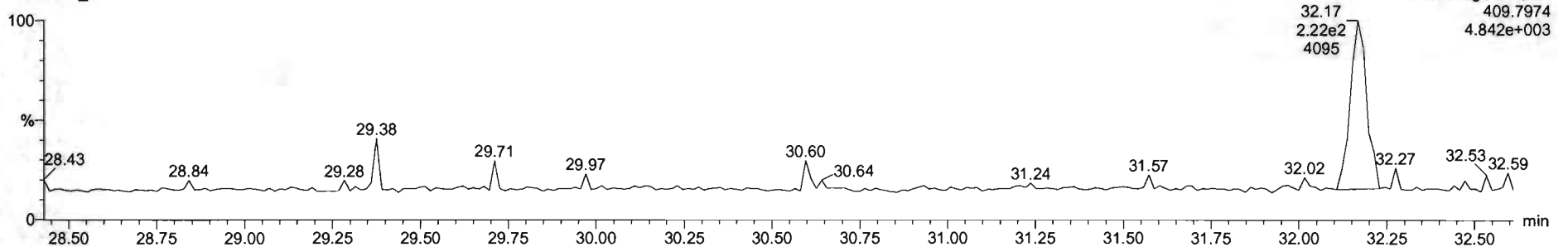


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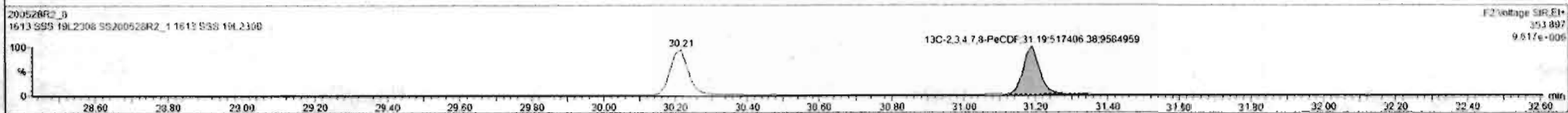
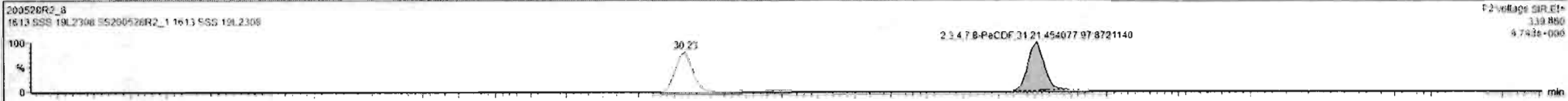


**DPE2**

200528R2\_8



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.85	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	34.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8264	1.000	35.05	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.87e5	1.02	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.38	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0323	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	20.23	1.001	55.7	111	0.0947	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.36e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	118	0.114	56.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8252	1.000	34.12	1.000	59.1	118	0.108	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.128	





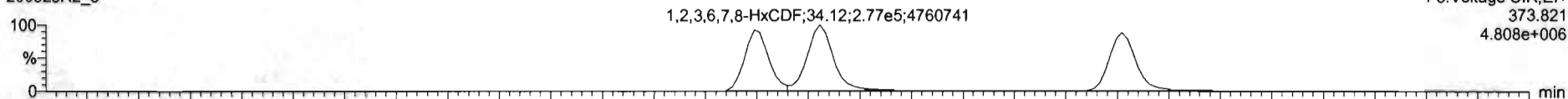
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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

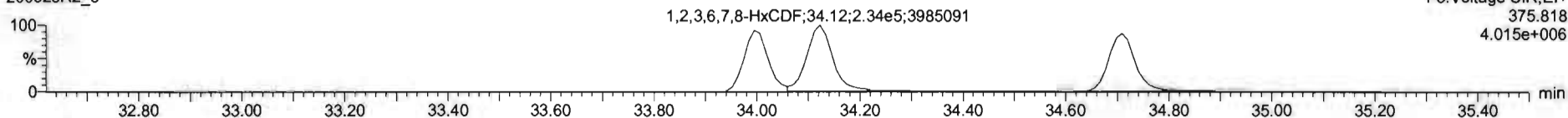
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**1,2,3,4,7,8-HxCDF**

200528R2\_8

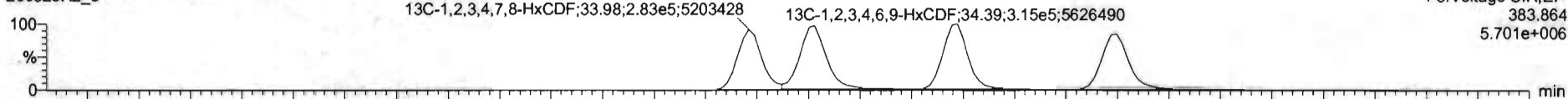


200528R2\_8

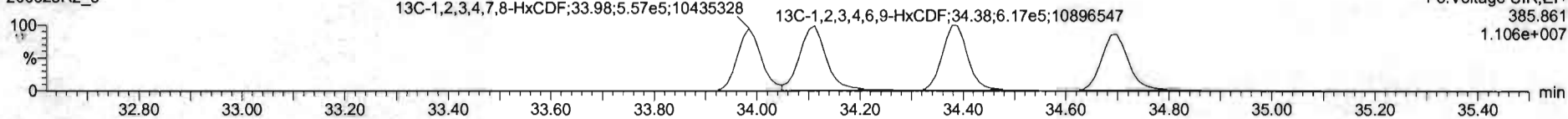


**13C-1,2,3,4,7,8-HxCDF**

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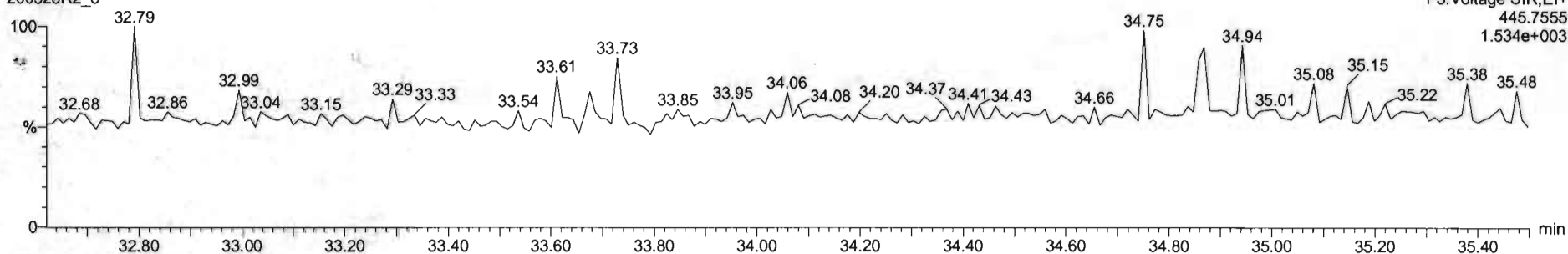


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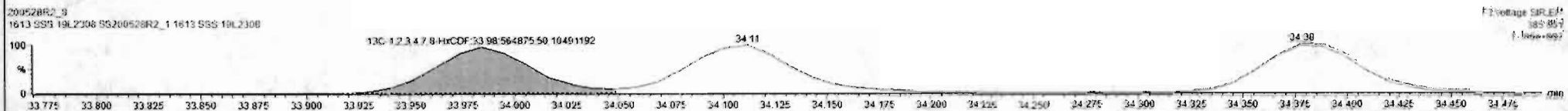
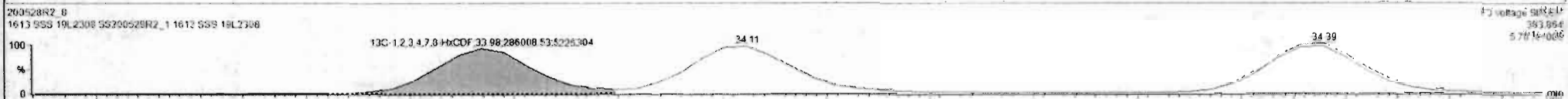
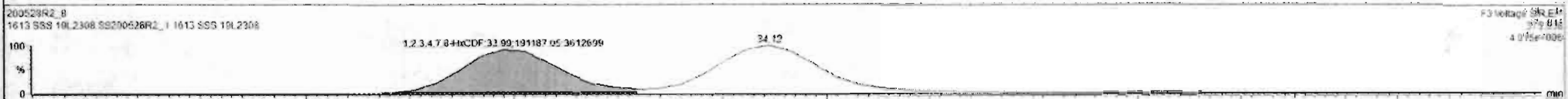
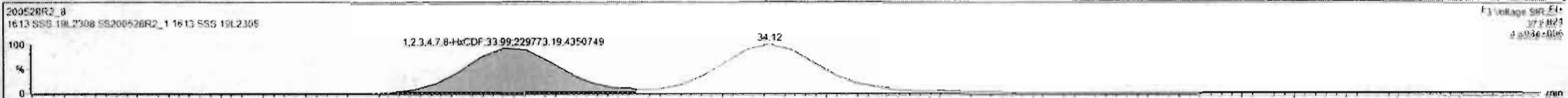


**DPE3**

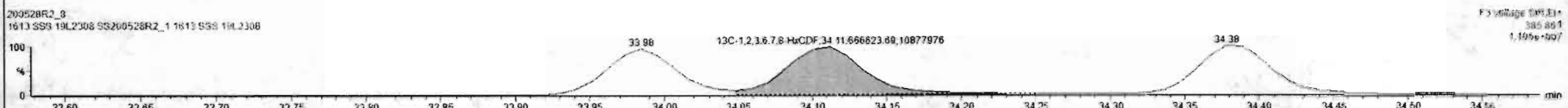
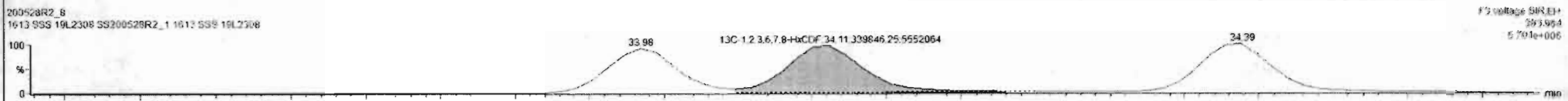
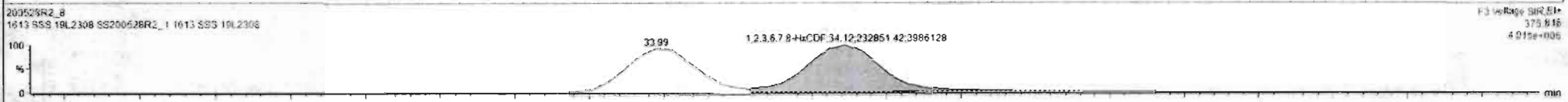
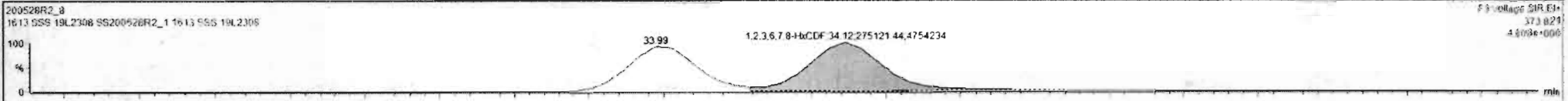
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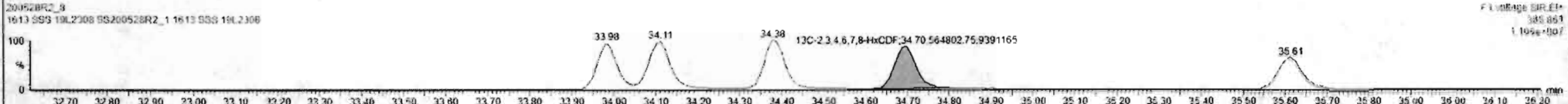
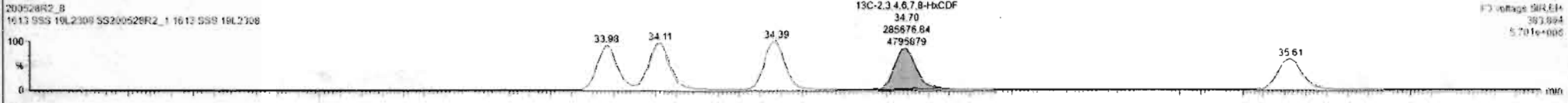
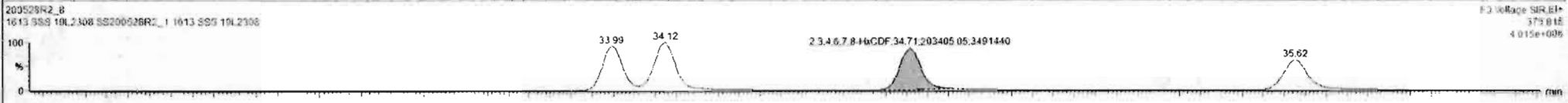
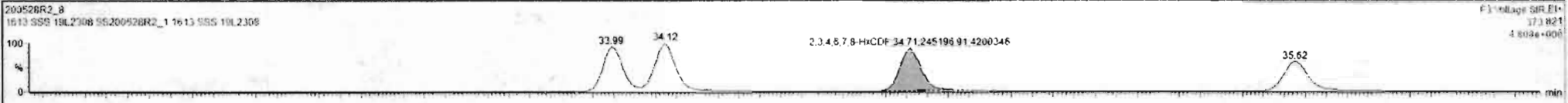
Name	Resp	RA	nly	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.8981	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	24.86	1.000	56.0	116	0.1011	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8929	1.000	24.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	25.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	26.50	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.68	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7519	1.000	25.65	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10 1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9346	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	23.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8882	1.000	24.12	1.000	59.1	118	0.108	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	24.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	27.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.199	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1562	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	85.6	88.6	0.160	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.36	NO	1.0187	1.000	24.97	1.017	88.7	88.7	0.138	



Name	Reap	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.67	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.53	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8973	1.000	34.99	1.000	58.0	116	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8969	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,5,7,8-HpCDD	2.67e5	1.02	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0542	55.7
10 1,2,3,7,8,9-HxCDF	7.50e5	1.54	NO	0.9348	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.6845	1.000	23.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.06e5	1.18	NO	0.6892	1.000	34.12	1.000	56.3	114	0.127	56.3
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.76e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.5	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.176	



SI	Name	Resp	RA	Adj	RFI	WVol	RT	RRT	Conc	%Rec	DL	EMFC
1	2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	28.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	3.66e5	1.22	NO	1.0314	1.000	34.88	1.000	56.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.100	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.67e5	1.93	NO	0.8039	1.000	38.80	1.000	55.8	112	0.160	55.8
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.88	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10	1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9148	1.000	31.21	1.000	60.2	120	0.0851	60.2
11	1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8545	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	5.06e5	1.16	NO	0.8262	1.000	34.12	1.000	56.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8797	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.196	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17	OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.75	NO	1.1583	1.000	28.54	1.025	91.9	91.9	0.0637	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.84	NO	0.8490	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0187	1.000	34.97	1.017	88.7	88.7	0.136	





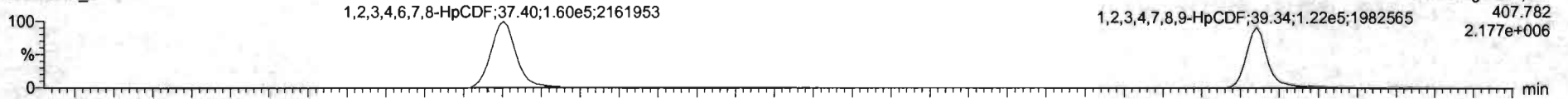
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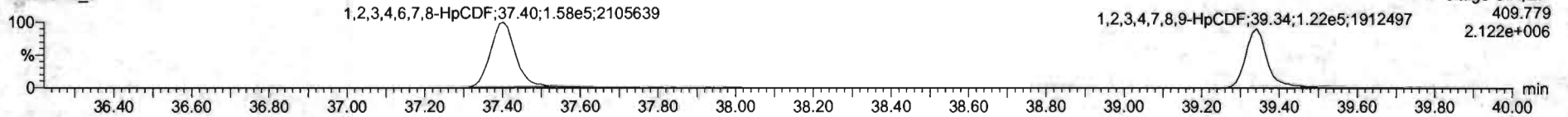
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**1,2,3,4,6,7,8-HpCDF**

200528R2\_8



200528R2\_8

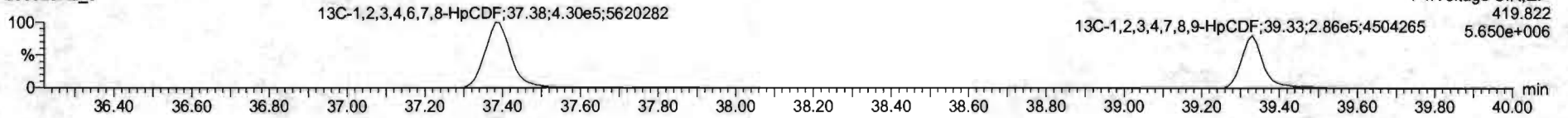


**13C-1,2,3,4,6,7,8-HpCDF**

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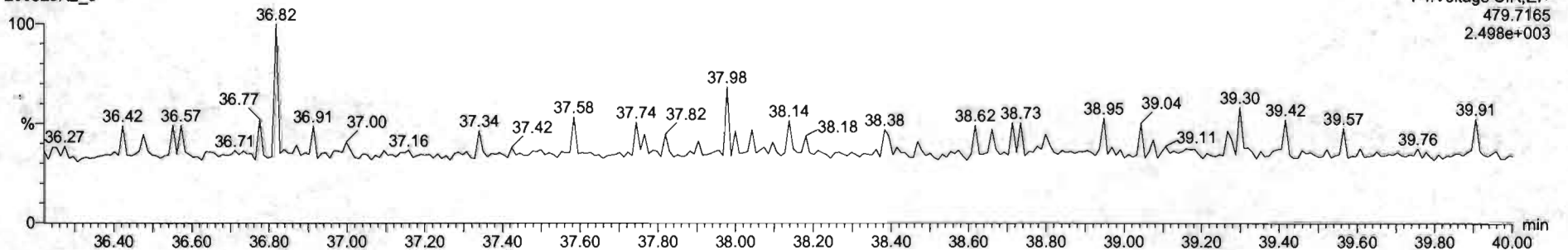


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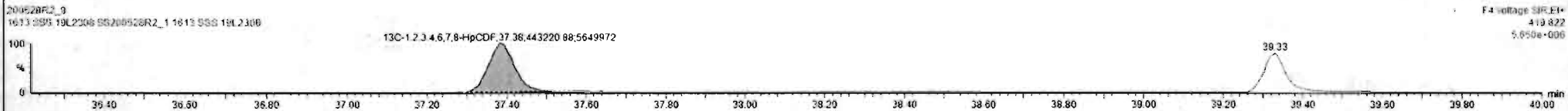


**DPE4**

200528R2\_8

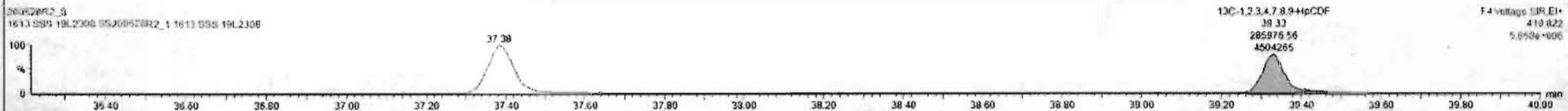
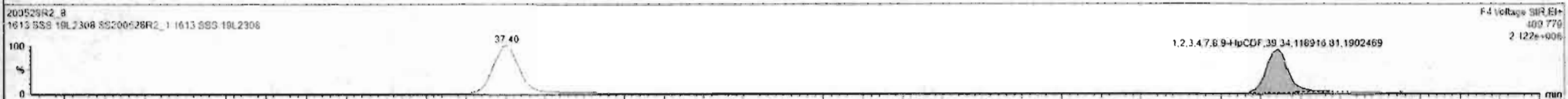


Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	5.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	58.4
3 1,2,3,4,7,8-HxCDD	3.56e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8523	1.000	34.99	1.000	58.0	118	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0533	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8025	1.000	30.23	1.001	25.7	111	0.0542	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	50.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	33.95	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.8852	1.000	34.12	1.000	56.8	114	0.107	56.8
13 2,3,4,6,7,8-HxCDF	4.45e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.48	1.000	54.5	108	0.152	54.5
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.09	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.27e5	0.87	NO	0.8055	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0637	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	66.5	68.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.0167	1.000	34.97	1.017	86.7	86.7	0.138	





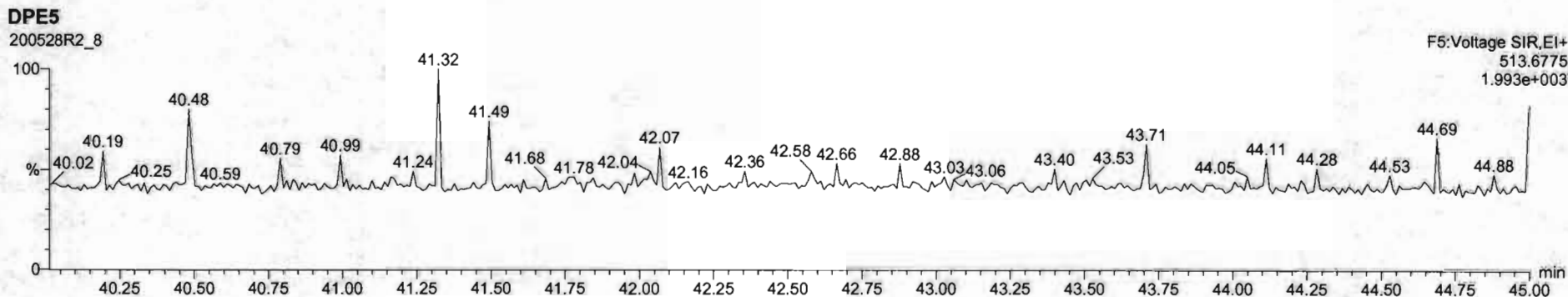
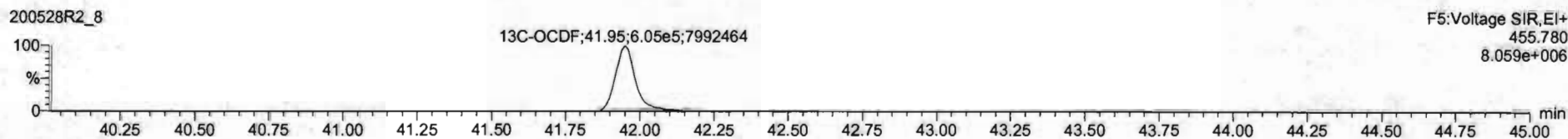
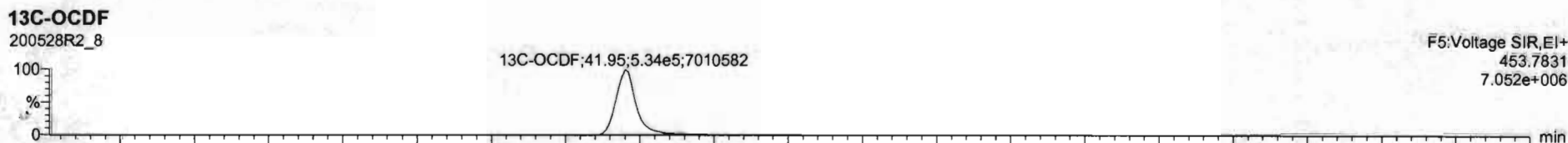
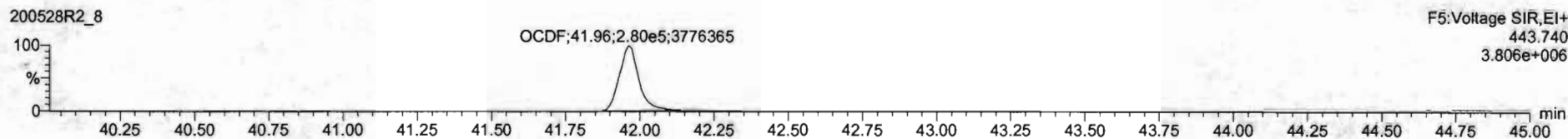
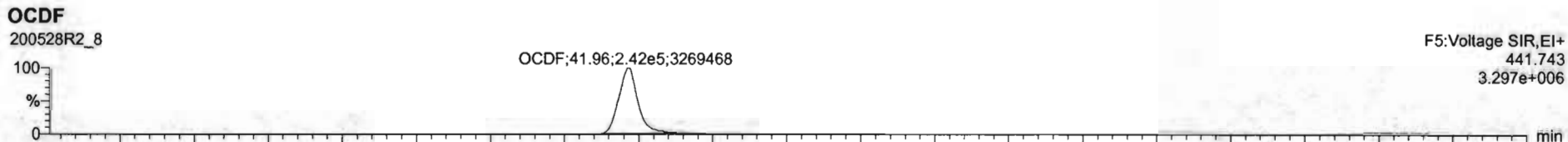
SL	Name	Resp	RA	ntf	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.82	NO	0.9081	1.000	31.01	1.000	58.4	113	0.0622	56.1
3	1,2,3,4,7,8-HxCDD	2.56e5	1.22	NO	1.0334	1.000	24.86	1.000	58.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	24.99	1.000	58.0	116	0.105	56.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	26.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.61e5	1.03	NO	0.8639	1.000	26.60	1.000	56.6	112	0.168	56.6
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0303	11.4
9	1,2,3,7,8-PeCDF	4.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10	2,3,4,7,8-PeCDF	7.58e5	1.54	NO	0.9346	1.000	31.21	1.000	50.2	126	0.0851	60.2
11	1,2,2',4',7,8-HxCDF	4.21e5	1.20	NO	0.8545	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	2.08e5	1.18	NO	0.8892	1.000	34.12	1.000	58.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.48e5	1.21	NO	0.9341	1.000	24.71	1.000	58.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.82	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.40	1.000	54.5	109	0.182	54.5
16	1,2,3,4,7,8,9-HpCDF	2.35e5	1.00	NO	1.0128	1.000	39.24	1.000	57.3	115	0.198	57.3
17	OCDF	5.27e5	0.67	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	88.6	88.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	24.97	1.017	88.7	88.7	0.138	



Dataset: Untitled

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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

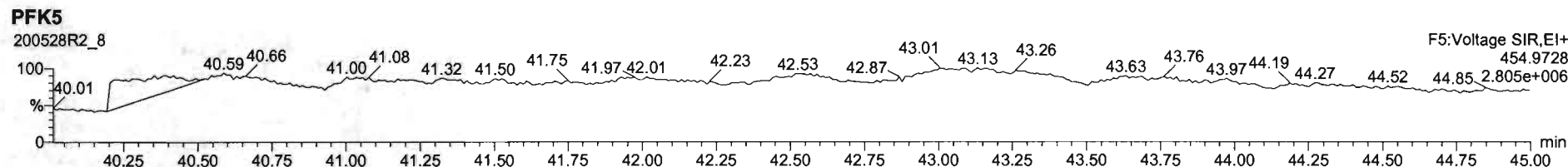
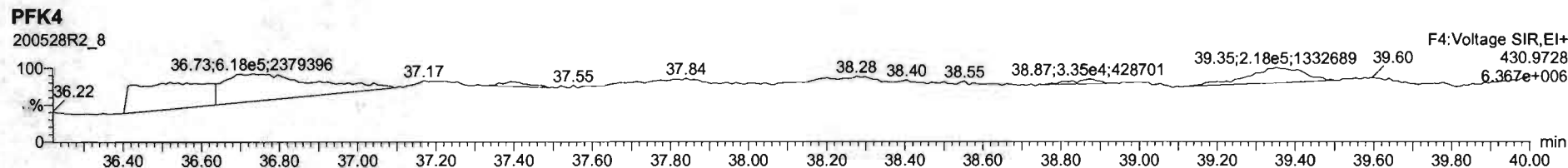
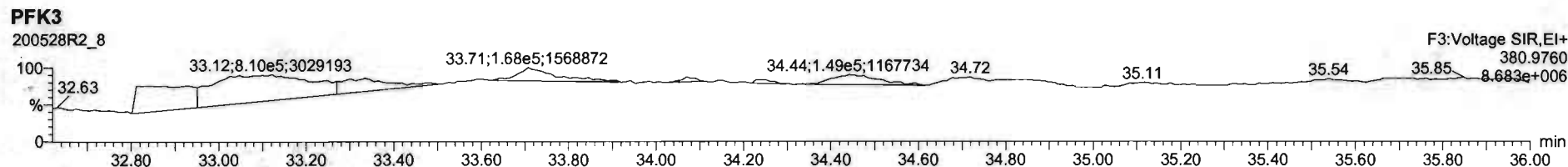
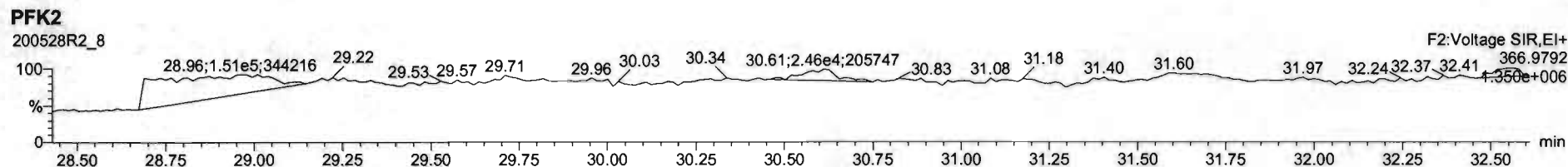
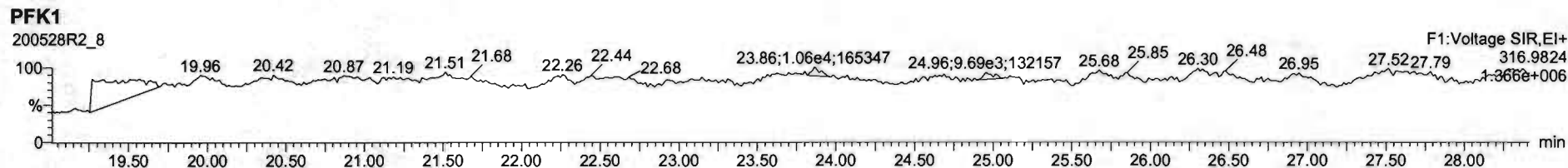
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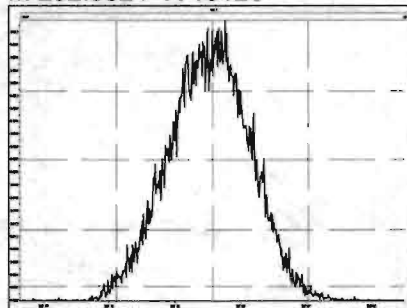
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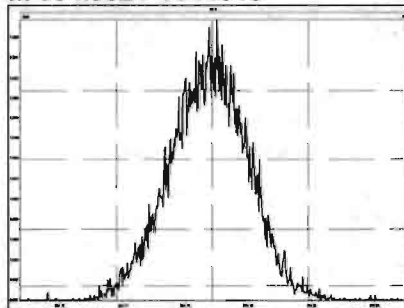
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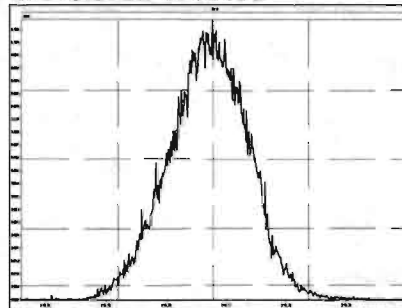
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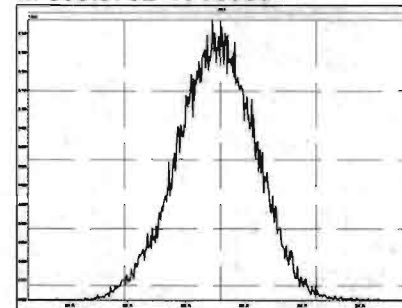
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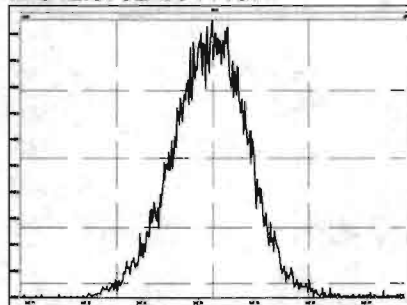
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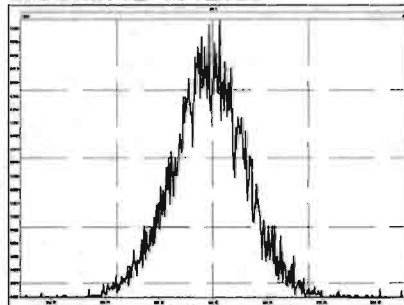
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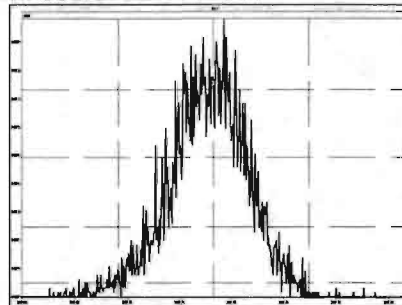
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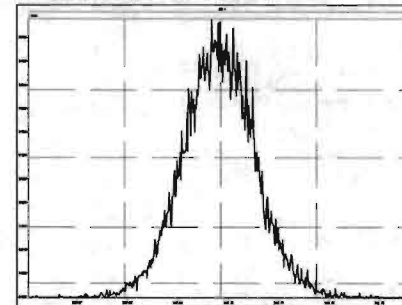
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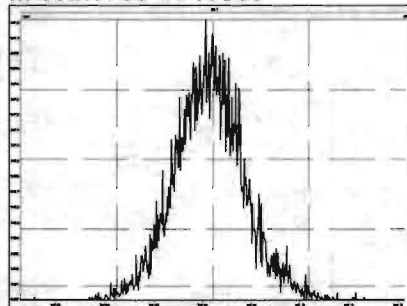
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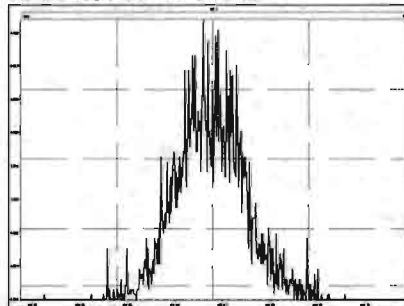
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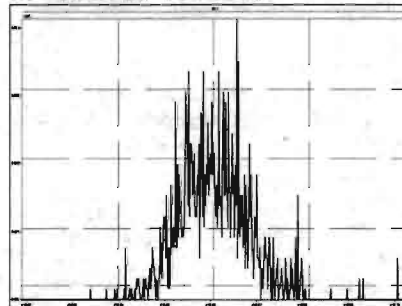
M 392.9760 R 13589



M 404.9760 R 14045



M 416.9760 R 18245





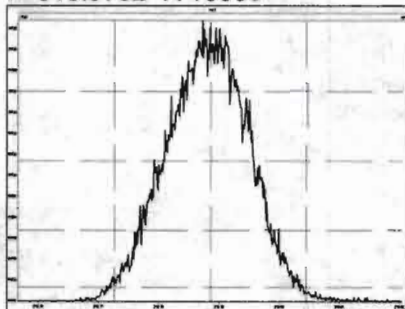
Experiment Calibration Report

MassLynx 4.1 SCN815

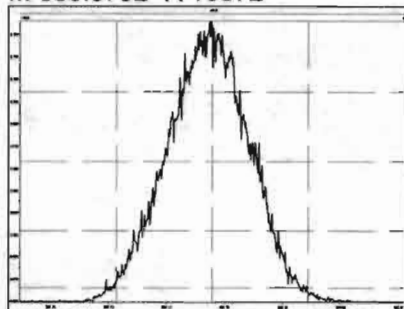
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Printed: Friday, May 29, 2020 07:19:21 Pacific Daylight Time

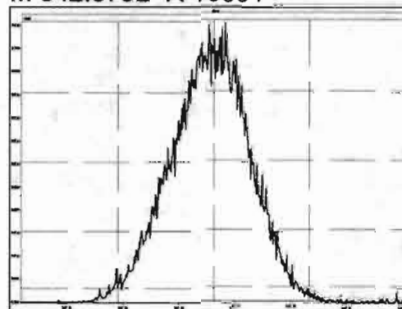
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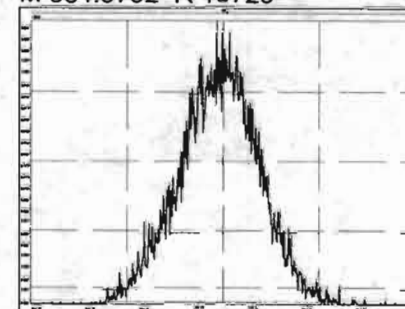
M 330.9792 R 10372



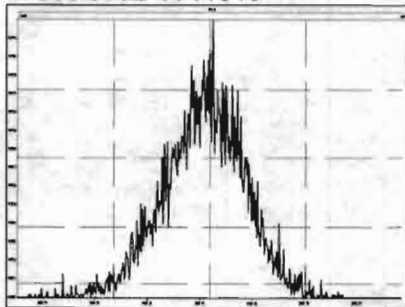
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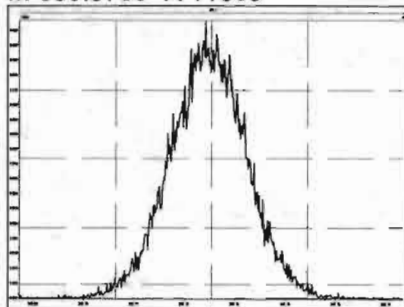
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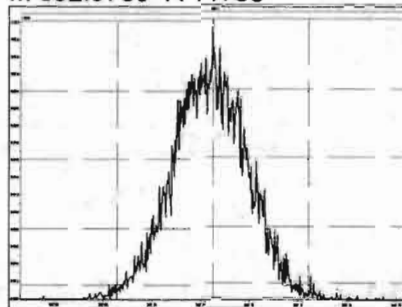
M 366.9792 R 11015



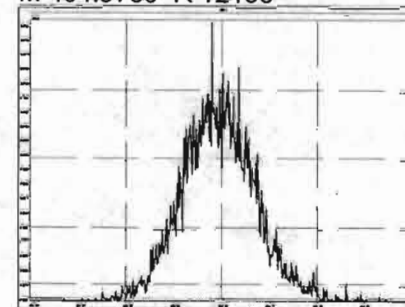
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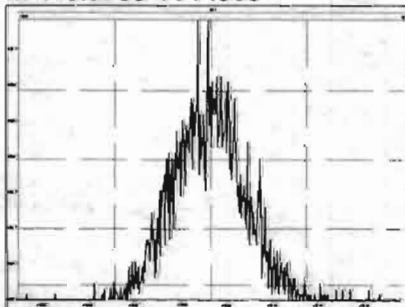
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M 404.9760 R 12196



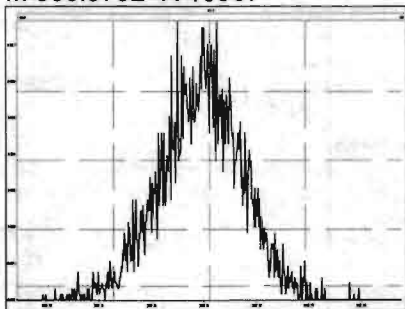
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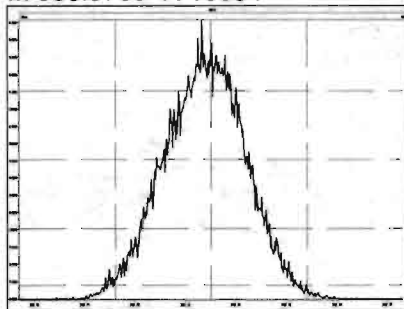
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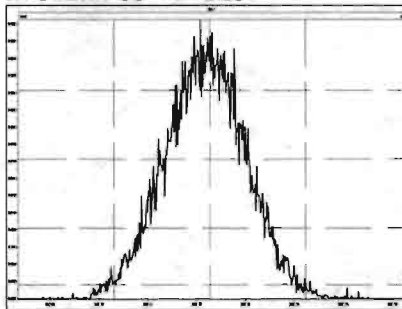
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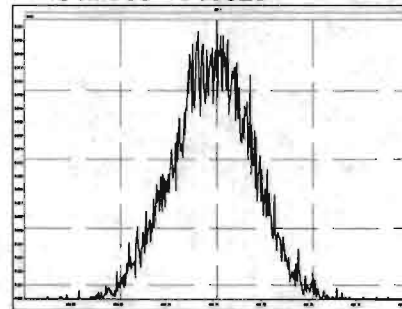
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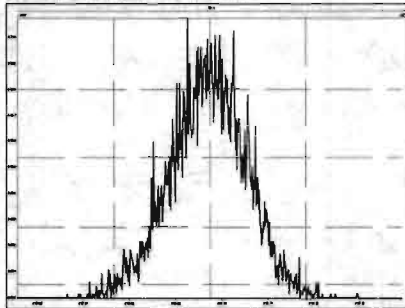
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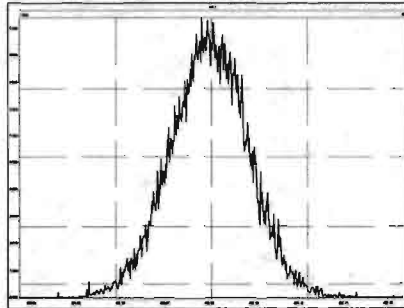
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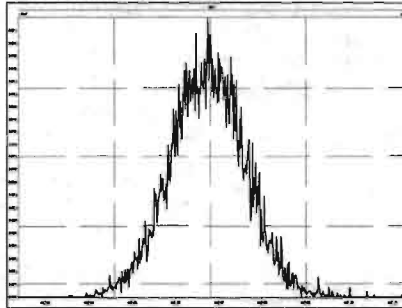
M 416.9760 R 11160



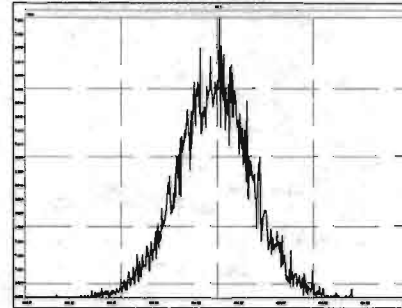
M 430.9728 R 11208



M 442.9728 R 12195



M 454.9728 R 10963





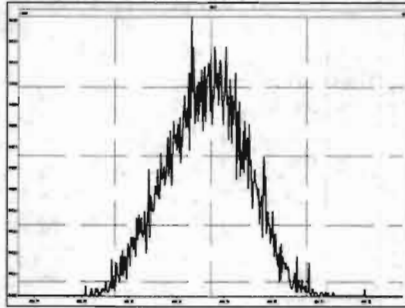
Experiment Calibration Report

MassLynx 4.1 SCN815

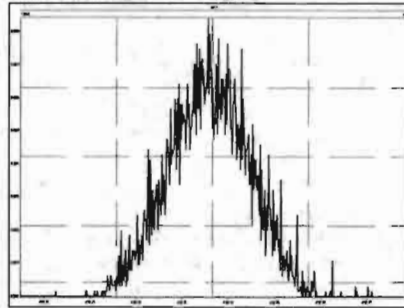
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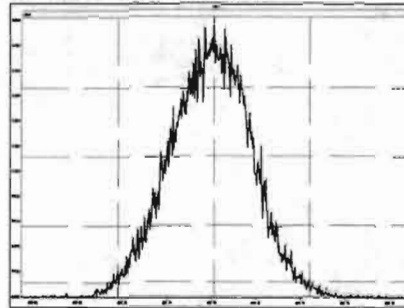
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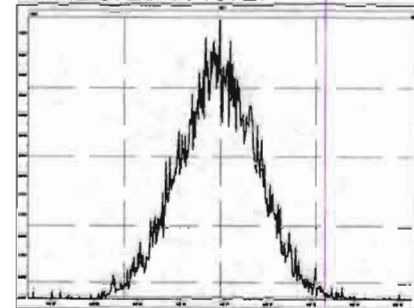
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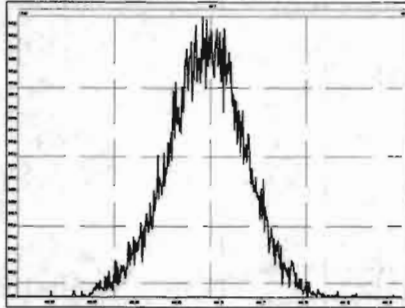
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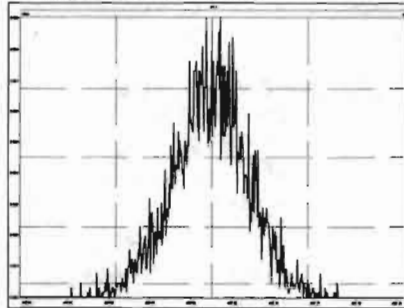
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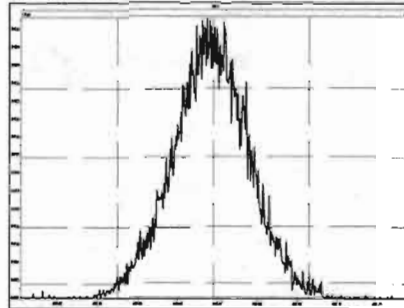
M 454.9728 R 11792



M 466.9728 R 12628



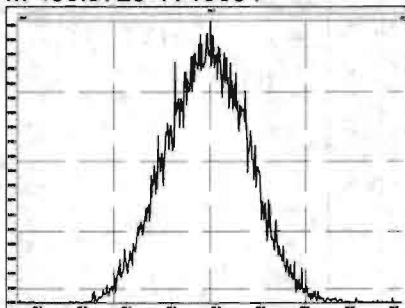
M 480.9696 R 11111



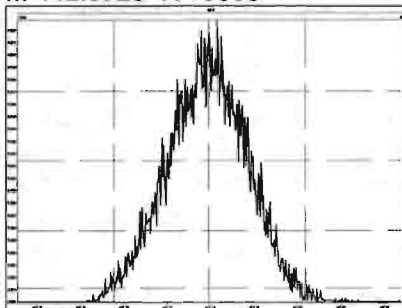
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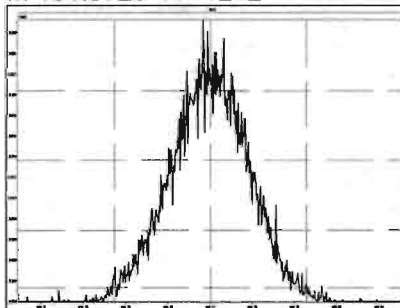
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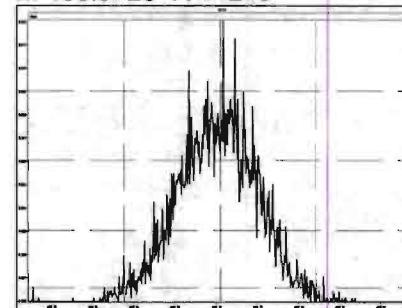
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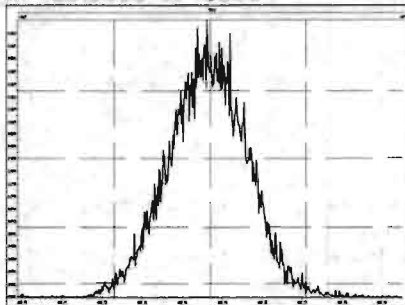
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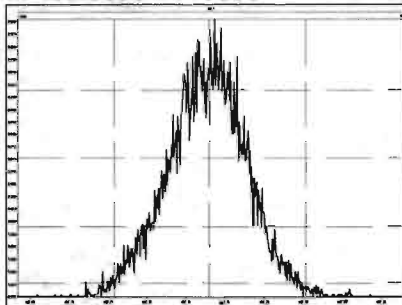
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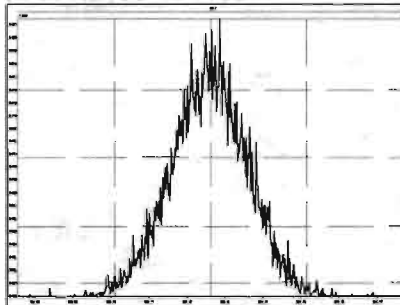
M 480.9696 R 10963



M 492.9696 R 10593



M 504.9696 R 11681



M 516.9697 R 11905

