Appendix E
Laboratory Reports

June 30, 2023

Enthalpy Analytical - El Dorado Hills
Work Order No. 2305023

Mr. David Baumeister
OnSite Environmental Inc.
14648 NE 95th Street
Redmond, WA 98052

Dear Mr. Baumeister,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on May 02, 2023 under your Project Name '220795-01.01'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at kathy.zipp@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

Kathy Zipp
Project Manager

Enthalpy Analytical - EDH 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 Enthalpy Analytical - EDH .

Enthalpy Analytical - EDH Work Order No. 2305023
Case Narrative

Sample Condition on Receipt:

Five sediment samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements.

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

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

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

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Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2305023-01	PS63-SS-01	27-Apr-23 08:16	02-May-23 10:27	Clear Glass Jar, 250mL
2305023-02	PS63-SS-02	27-Apr-23 08:41	02-May-23 10:27	Clear Glass Jar, 250mL
2305023-03	PS63-SS-03	27-Apr-23 09:03	02-May-23 10:27	Clear Glass Jar, 250mL
2305023-04	PS63-SS-04	27-Apr-23 09:23	02-May-23 10:27	Clear Glass Jar, 250mL
2305023-05	PS63-SS-05	27-Apr-23 09:49	02-May-23 10:27	Clear Glass Jar, 250mL

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 1613B

Client Data
Name: OnSite Environmental Inc.
Project: 220795-01.01
Matrix: Solid

Laboratory Data
Lab Sample: B23E130-BLK1
QC Batch: B23E130
Sample Size: 10.0 g
Date Extracted: 10-May-23
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.0546			11-Jun-23 16:01	1
1,2,3,7,8-PeCDD	ND	0.0988			11-Jun-23 16:01	1
1,2,3,4,7,8-HxCDD	ND	0.231			11-Jun-23 16:01	1
1,2,3,6,7,8-HxCDD	ND	0.233			11-Jun-23 16:01	1
1,2,3,7,8,9-HxCDD	ND	0.262			11-Jun-23 16:01	1
1,2,3,4,6,7,8-HpCDD	ND	0.184			11-Jun-23 16:01	1
OCDD	ND	0.554			11-Jun-23 16:01	1
2,3,7,8-TCDF	ND	0.0390			11-Jun-23 16:01	1
1,2,3,7,8-PeCDF	ND	0.0553			11-Jun-23 16:01	1
2,3,4,7,8-PeCDF	ND	0.0443			11-Jun-23 16:01	1
1,2,3,4,7,8-HxCDF	ND	0.0504			11-Jun-23 16:01	1
1,2,3,6,7,8-HxCDF	ND	0.0498			11-Jun-23 16:01	1
2,3,4,6,7,8-HxCDF	ND	0.0560			11-Jun-23 16:01	1
1,2,3,7,8,9-HxCDF	ND	0.0893			11-Jun-23 16:01	1
1,2,3,4,6,7,8-HpCDF	ND	0.170			11-Jun-23 16:01	1
1,2,3,4,7,8,9-HpCDF	ND	0.231			11-Jun-23 16:01	1
OCDF	ND	0.276			11-Jun-23 16:01	1
Toxic Equivalent						
TEQMinWHO2005Dioxin	0.00					
Totals						
Total TCDD	ND	0.0546				
Total PeCDD	ND	0.0988				
Total HxCDD	ND	0.262				
Total HpCDD	ND	0.184				
Total TCDF	ND	0.0390				
Total PeCDF	ND	0.0553				
Total HxCDF	ND	0.0893				
Total HpCDF	ND	0.231				

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	91.5	25 - 164		11-Jun-23 16:01	1
13C-1,2,3,7,8-PeCDD	IS	97.0	25 - 181		11-Jun-23 16:01	1
13C-1,2,3,4,7,8-HxCDD	IS	96.8	32 - 141		11-Jun-23 16:01	1
13C-1,2,3,6,7,8-HxCDD	IS	103	28 - 130		11-Jun-23 16:01	1
13C-1,2,3,7,8,9-HxCDD	IS	95.4	32 - 141		11-Jun-23 16:01	1
13C-1,2,3,4,6,7,8-HpCDD	IS	74.3	23 - 140		11-Jun-23 16:01	1
13C-OCDD	IS	60.0	17 - 157		11-Jun-23 16:01	1
13C-2,3,7,8-TCDF	IS	79.9	24 - 169		11-Jun-23 16:01	1
13C-1,2,3,7,8-PeCDF	IS	99.0	24 - 185		11-Jun-23 16:01	1
13C-2,3,4,7,8-PeCDF	IS	99.1	21 - 178		11-Jun-23 16:01	1
13C-1,2,3,4,7,8-HxCDF	IS	88.2	26 - 152		11-Jun-23 16:01	1
13C-1,2,3,6,7,8-HxCDF	IS	93.7	26 - 123		11-Jun-23 16:01	1
13C-2,3,4,6,7,8-HxCDF	IS	85.9	28 - 136		11-Jun-23 16:01	1
13C-1,2,3,7,8,9-HxCDF	IS	76.1	29 - 147		11-Jun-23 16:01	1
13C-1,2,3,4,6,7,8-HpCDF	IS	74.2	28 - 143		11-Jun-23 16:01	1
13C-1,2,3,4,7,8,9-HpCDF	IS	61.1	26 - 138		11-Jun-23 16:01	1
13C-OCDF	IS	56.9	17 - 157		11-Jun-23 16:01	1
37Cl-2,3,7,8-TCDD	CRS	96.3	35 - 197		11-Jun-23 16:01	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration

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

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

Client Data
Name: OnSite Environmental Inc.
Project: 220795-01.01
Matrix: Solid

Laboratory Data
Lab Sample: B23E130-BS1
QC Batch: B23E130 Date Extracted: 10-May-23 15:40
Sample Size: 10.0 g Column: ZB-DIOXIN

Analyte	Amt Found (pg/g)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	19.4	20.0	97.1	67-158		10-Jun-23 14:56	1
1,2,3,7,8-PeCDD	108	100	108	70-142		10-Jun-23 14:56	1
1,2,3,4,7,8-HxCDD	96.0	100	96.0	70-164		10-Jun-23 14:56	1
1,2,3,6,7,8-HxCDD	97.4	100	97.4	76-134		10-Jun-23 14:56	1
1,2,3,7,8,9-HxCDD	98.7	100	98.7	64-162		10-Jun-23 14:56	1
1,2,3,4,6,7,8-HpCDD	97.9	100	97.9	70-140		10-Jun-23 14:56	1
OCDD	192	200	96.2	78-144		10-Jun-23 14:56	1
2,3,7,8-TCDF	19.2	20.0	95.8	75-158		10-Jun-23 14:56	1
1,2,3,7,8-PeCDF	103	100	103	80-134		10-Jun-23 14:56	1
2,3,4,7,8-PeCDF	103	100	103	68-160		10-Jun-23 14:56	1
1,2,3,4,7,8-HxCDF	116	100	116	72-134		10-Jun-23 14:56	1
1,2,3,6,7,8-HxCDF	112	100	112	84-130		10-Jun-23 14:56	1
2,3,4,6,7,8-HxCDF	112	100	112	70-156		10-Jun-23 14:56	1
1,2,3,7,8,9-HxCDF	111	100	111	78-130		10-Jun-23 14:56	1
1,2,3,4,6,7,8-HpCDF	106	100	106	82-122		10-Jun-23 14:56	1
1,2,3,4,7,8,9-HpCDF	112	100	112	78-138		10-Jun-23 14:56	1
OCDF	226	200	113	63-170		10-Jun-23 14:56	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	96.7	20-175		10-Jun-23 14:56	1
13C-1,2,3,7,8-PeCDD	IS	95.6	21-227		10-Jun-23 14:56	1
13C-1,2,3,4,7,8-HxCDD	IS	108	21-193		10-Jun-23 14:56	1
13C-1,2,3,6,7,8-HxCDD	IS	101	25-163		10-Jun-23 14:56	1
13C-1,2,3,7,8,9-HxCDD	IS	103	21-193		10-Jun-23 14:56	1
13C-1,2,3,4,6,7,8-HpCDD	IS	88.9	26-166		10-Jun-23 14:56	1
13C-OCDD	IS	83.2	13-199		10-Jun-23 14:56	1
13C-2,3,7,8-TCDF	IS	83.7	22-152		10-Jun-23 14:56	1
13C-1,2,3,7,8-PeCDF	IS	92.2	21-192		10-Jun-23 14:56	1
13C-2,3,4,7,8-PeCDF	IS	94.4	13-328		10-Jun-23 14:56	1
13C-1,2,3,4,7,8-HxCDF	IS	91.8	19-202		10-Jun-23 14:56	1
13C-1,2,3,6,7,8-HxCDF	IS	92.2	21-159		10-Jun-23 14:56	1
13C-2,3,4,6,7,8-HxCDF	IS	93.1	22-176		10-Jun-23 14:56	1
13C-1,2,3,7,8,9-HxCDF	IS	85.8	17-205		10-Jun-23 14:56	1
13C-1,2,3,4,6,7,8-HpCDF	IS	87.1	21-158		10-Jun-23 14:56	1
13C-1,2,3,4,7,8,9-HpCDF	IS	78.2	20-186		10-Jun-23 14:56	1
13C-OCDF	IS	79.3	13-199		10-Jun-23 14:56	1
37Cl-2,3,7,8-TCDD	CRS	105	31-191		10-Jun-23 14:56	1

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

Client Data
Name: OnSite Environmental Inc.
Project: 227950-71.71
Matrix: Solid

Laboratory Data
Lab Sample: B23E102-BLK1
QC Batch: B23E102 Date Extracted: 12-May-23
Sample Size: 17.7 g Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,9,8-TCDD	ND	7.7448			70-6un-23 12:38	1
1,2,3,9,8-PeCDD	ND	7.78JJ			70-6un-23 12:38	1
1,2,3,4,9,8-HxCDD	ND	7.7882			70-6un-23 12:38	1
1,2,3,J,9,8-HxCDD	ND	7.7534			70-6un-23 12:38	1
1,2,3,9,8,5-HxCDD	ND	7.7543			70-6un-23 12:38	1
1,2,3,4,J,9,8-HpCDD	ND	7.142			70-6un-23 12:38	1
OCDD	ND	7.2J8			70-6un-23 12:38	1
2,3,9,8-TCDF	ND	7.72J4			70-6un-23 12:38	1
1,2,3,9,8-PeCDF	ND	7.7458			70-6un-23 12:38	1
2,3,4,9,8-PeCDF	ND	7.7453			70-6un-23 12:38	1
1,2,3,4,9,8-HxCDF	ND	7.744J			70-6un-23 12:38	1
1,2,3,J,9,8-HxCDF	ND	7.7407			70-6un-23 12:38	1
2,3,4,J,9,8-HxCDF	ND	7.7028			70-6un-23 12:38	1
1,2,3,9,8,5-HxCDF	ND	7.7J48			70-6un-23 12:38	1
1,2,3,4,J,9,8-HpCDF	ND	7.7059			70-6un-23 12:38	1
1,2,3,4,9,8,5-HpCDF	ND	7.7878			70-6un-23 12:38	1
OCDF	ND	7.17J			70-6un-23 12:38	1
Toxic Equivalent						
TEQMinWHO2770Dioxin	7.77					
Totals						
Total TCDD	ND	7.7448				
Total PeCDD	ND	7.78JJ				
Total HxCDD	ND	7.7543				
Total HpCDD	ND	7.142				
Total TCDF	ND	7.72J4				
Total PeCDF	ND	7.7458				
Total HxCDF	ND	7.7J48				
Total HpCDF	ND	7.7878				

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,9,8-TCDD	IS	52.3	20 - 1J4		70-6un-23 12:38	1
13C-1,2,3,9,8-PeCDD	IS	82.1	20 - 181		70-6un-23 12:38	1
13C-1,2,3,4,9,8-HxCDD	IS	84.9	32 - 141		70-6un-23 12:38	1
13C-1,2,3,J,9,8-HxCDD	IS	81.7	28 - 137		70-6un-23 12:38	1
13C-1,2,3,9,8,5-HxCDD	IS	82.8	32 - 141		70-6un-23 12:38	1
13C-1,2,3,4,J,9,8-HpCDD	IS	99.5	23 - 147		70-6un-23 12:38	1
13C-OCDD	IS	J2.8	19 - 109		70-6un-23 12:38	1
13C-2,3,9,8-TCDF	IS	83.7	24 - 1J5		70-6un-23 12:38	1
13C-1,2,3,9,8-PeCDF	IS	83.9	24 - 180		70-6un-23 12:38	1
13C-2,3,4,9,8-PeCDF	IS	82.4	21 - 198		70-6un-23 12:38	1
13C-1,2,3,4,9,8-HxCDF	IS	88.4	2J - 102		70-6un-23 12:38	1
13C-1,2,3,J,9,8-HxCDF	IS	88.7	2J - 123		70-6un-23 12:38	1
13C-2,3,4,J,9,8-HxCDF	IS	8J.9	28 - 13J		70-6un-23 12:38	1
13C-1,2,3,9,8,5-HxCDF	IS	80.9	25 - 149		70-6un-23 12:38	1
13C-1,2,3,4,J,9,8-HpCDF	IS	95.8	28 - 143		70-6un-23 12:38	1
13C-1,2,3,4,9,8,5-HpCDF	IS	93.5	2J - 138		70-6un-23 12:38	1
13C-OCDF	IS	J3.1	19 - 109		70-6un-23 12:38	1
39Cl-2,3,9,8-TCDD	CRS	172	30 - 159		70-6un-23 12:38	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration

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

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

Client Data
Name: OnSite Environmental Inc.
Project: 227950-71.71
Matrix: Solid

Laboratory Data
Lab Sample: B23E102-BS1
QC Batch: B23E102 Date Extracted: 12-May-23 74:1,
Sample Size: 17.7 g Column: ZB-DIOXIN

Analyte	Amt Found (pg/g)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2378-TCDD	15.7	27.7	50.7	69-104		70-Jun-23 11:75	1
12378-PeCDD	111	177	111	97-1, 2		70-Jun-23 11:75	1
123789-HxCDD	170	177	170	97-16,		70-Jun-23 11:75	1
123678-HxCDD	174	177	174	96-13,		70-Jun-23 11:75	1
123789-HxCDD	176	177	176	6, -162		70-Jun-23 11:75	1
1234678-HpCDD	17,	177	17,	97-1, 7		70-Jun-23 11:75	1
OCDD	211	277	170	94-1, ,		70-Jun-23 11:75	1
2378-TCDF	27.7	27.7	177	90-104		70-Jun-23 11:75	1
12378-PeCDF	111	177	111	47-13,		70-Jun-23 11:75	1
23478-PeCDF	113	177	113	64-167		70-Jun-23 11:75	1
123478-HxCDF	170	177	170	92-13,		70-Jun-23 11:75	1
123678-HxCDF	171	177	171	4, -137		70-Jun-23 11:75	1
234678-HxCDF	172	177	172	97-106		70-Jun-23 11:75	1
123789-HxCDF	177	177	177	94-137		70-Jun-23 11:75	1
1234678-HpCDF	171	177	171	42-122		70-Jun-23 11:75	1
1234789-HpCDF	170	177	170	94-134		70-Jun-23 11:75	1
OCDF	155	277	55.3	63-197		70-Jun-23 11:75	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2378-TCDD	IS	173	27-190		70-Jun-23 11:75	1
13C-12378-PeCDD	IS	5, .2	21-229		70-Jun-23 11:75	1
13C-123478-HxCDD	IS	56.9	21-153		70-Jun-23 11:75	1
13C-123678-HxCDD	IS	57.4	20-163		70-Jun-23 11:75	1
13C-123789-HxCDD	IS	5, .9	21-153		70-Jun-23 11:75	1
13C-1234678-HpCDD	IS	49.0	26-166		70-Jun-23 11:75	1
13C-OCDD	IS	90.4	13-155		70-Jun-23 11:75	1
13C-2378-TCDF	IS	51.0	22-102		70-Jun-23 11:75	1
13C-12378-PeCDF	IS	53.5	21-152		70-Jun-23 11:75	1
13C-23478-PeCDF	IS	52.3	13-324		70-Jun-23 11:75	1
13C-123478-HxCDF	IS	59.9	15-272		70-Jun-23 11:75	1
13C-123678-HxCDF	IS	54.7	21-105		70-Jun-23 11:75	1
13C-234678-HxCDF	IS	56.2	22-196		70-Jun-23 11:75	1
13C-123789-HxCDF	IS	50.6	19-270		70-Jun-23 11:75	1
13C-1234678-HpCDF	IS	49.7	21-104		70-Jun-23 11:75	1
13C-1234789-HpCDF	IS	41.6	27-146		70-Jun-23 11:75	1
13C-OCDF	IS	90.1	13-155		70-Jun-23 11:75	1
39Cl-2378-TCDD	CRS	11,	31-151		70-Jun-23 11:75	1

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

Client Data

a me : P I gl S7: LOguSgj ge : g7mZZgt i
r oj c: t 7P 2295- . M1i91
x m7SpP l j zSn

Laboratory Data

QmCLl me z P B23E10NMBQv 1
h DIBm7t dP B23E10N Km7: LOp7omt 7: nP 1NMygM3
l me z IL Sb: P . i99IX Dj zye gP , BMKZI 8 Za

Analyte	Conc. (pg/g)	EDL	EMPC	Qualifiers	Analyzed	Dilution
24-546MIDKK	a K	9i9- - -			22MygM31l. P25	1
142-4-546M: DKK	a K	9i1N3			22MygM31l. P25	1
142-40-546MIpDKK	a K	9i159			22MygM31l. P25	1
142-4N-546MIpDKK	a K	9i16-			22MygM31l. P25	1
142-4-5464- MIpDKK	a K	9i1- 5			22MygM31l. P25	1
142-40-4N-546MI DKK	a K	9i222			22MygM31l. P25	1
I DKK	a K		9i1- 2		22MygM31l. P25	1
24-546MIDKE	a K	9i191			22MygM31l. P25	1
142-4-546M: DKE	a K	9i12-			22MygM31l. P25	1
24-40-546M: DKE	a K	9i196			22MygM31l. P25	1
142-40-546MIpDKE	a K	9i9- 60			22MygM31l. P25	1
142-4N-546MIpDKE	a K	9i9- Nl			22MygM31l. P25	1
24-40-4N-546MIpDKE	a K	9i19-			22MygM31l. P25	1
142-4-5464- MIpDKE	a K	9i1. 9			22MygM31l. P25	1
142-40-4N-546MI DKE	a K	9i96- 9			22MygM31l. P25	1
142-40-5464- MI DKE	a K	9i116			22MygM31l. P25	1
I DKE	a K	9i335			22MygM31l. P25	1
Toxic Equivalent						
J Oh x SgF HI 299. KSjpSg	9i99					
Totals						
Jj 7mzLI DKK	a K	9i9- - -				
Jj 7mzLr : DKK	a K	9i1N3				
Jj 7mzLHpDKK	a K	9i1- 5				
Jj 7mzLH DKK	a K	9i222				
Jj 7mzLI DKE	a K	9i191				
Jj 7mzLr : DKE	a K	9i12-				
Jj 7mzLHpDKE	a K	9i1. 9				
Jj 7mzLH DKE	a K	9i116				

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13DM24-546MIDKK	Zl	196	l2. INL1N0		22MygM31l. P25	1
13DM42-4-546M: DKK	Zl	- 9i-	l2. INL161		22MygM31l. P25	1
13DM42-40-546MIpDKK	Zl	6. i0	l32INL101		22MygM31l. P25	1
13DM42-4N-546MIpDKK	Zl	65i9	l26INL139		22MygM31l. P25	1
13DM42-4-5464- MIpDKK	Zl	6N0	l32INL101		22MygM31l. P25	1
13DM42-40-4N-546MI DKK	Zl	5- i3	l23INL109		22MygM31l. P25	1
13DMI DKK	Zl	52iN	l15INL1. 5		22MygM31l. P25	1
13DM24-546MIDKE	Zl	66i-	l20INL1N-		22MygM31l. P25	1
13DM42-4-546M: DKE	Zl	- 3i0	l20INL16.		22MygM31l. P25	1
13DM24-40-546M: DKE	Zl	- 1i-	l21INL156		22MygM31l. P25	1
13DM42-40-546MIpDKE	Zl	62i3	l2NINL1. 2		22MygM31l. P25	1
13DM42-4N-546MIpDKE	Zl	- 9iN	l2NINL123		22MygM31l. P25	1
13DM24-40-4N-546MIpDKE	Zl	65i.	l26INL13N		22MygM31l. P25	1
13DM42-4-5464- MIpDKE	Zl	63i6	l2- INL105		22MygM31l. P25	1
13DM42-40-4N-546MI DKE	Zl	6N2	l26INL103		22MygM31l. P25	1
13DM42-40-5464- MI DKE	Zl	55iN	l2NINL136		22MygM31l. P25	1
13DMI DKE	Zl	59i.	l15INL1. 5		22MygM31l. P25	1
35DzM24-546MIDKK	DWl	11-	l3. INL1- 5		22MygM31l. P25	1

OKQlNL me z lR : t Sft L RSe m7: nln: 7: t 7Sj glzSe SMIIIIIIIIIIIIL
Ox r DlNlORSe m7: nle mpSe ye L j RRSCz lt j gt : g7mSj gIIIIIIIIIL

J d: lo: RyzZRmo: lo: j o7: nlSgInos Iw: SXd7IIIIIIIIIIIII

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

Client Data
Name: OnSite Environmental Inc.
Project: 220795-01.01
Matrix: Solid

Laboratory Data
Lab Sample: B23F146-BS1
QC Batch: B23F146 Date Extracted: 16-Jun-23 08:33
Sample Size: 5.00 g Column: ZB-DIOXIN

Analyte	Amt Found (pg/g)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	44.2	40.0	111	67-158		22-Jun-23 13:57	1
1,2,3,7,8-PeCDD	245	200	123	70-142		22-Jun-23 13:57	1
1,2,3,4,7,8-HxCDD	224	200	112	70-164		22-Jun-23 13:57	1
1,2,3,6,7,8-HxCDD	225	200	113	76-134		22-Jun-23 13:57	1
1,2,3,7,8,9-HxCDD	227	200	114	64-162		22-Jun-23 13:57	1
1,2,3,4,6,7,8-HpCDD	218	200	109	70-140		22-Jun-23 13:57	1
OCDD	460	400	115	78-144		22-Jun-23 13:57	1
2,3,7,8-TCDF	43.5	40.0	109	75-158		22-Jun-23 13:57	1
1,2,3,7,8-PeCDF	235	200	118	80-134		22-Jun-23 13:57	1
2,3,4,7,8-PeCDF	246	200	123	68-160		22-Jun-23 13:57	1
1,2,3,4,7,8-HxCDF	242	200	121	72-134		22-Jun-23 13:57	1
1,2,3,6,7,8-HxCDF	241	200	121	84-130		22-Jun-23 13:57	1
2,3,4,6,7,8-HxCDF	242	200	121	70-156		22-Jun-23 13:57	1
1,2,3,7,8,9-HxCDF	234	200	117	78-130		22-Jun-23 13:57	1
1,2,3,4,6,7,8-HpCDF	232	200	116	82-122		22-Jun-23 13:57	1
1,2,3,4,7,8,9-HpCDF	235	200	117	78-138		22-Jun-23 13:57	1
OCDF	469	400	117	63-170		22-Jun-23 13:57	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	113	20-175		22-Jun-23 13:57	1
13C-1,2,3,7,8-PeCDD	IS	87.5	21-227		22-Jun-23 13:57	1
13C-1,2,3,4,7,8-HxCDD	IS	86.4	21-193		22-Jun-23 13:57	1
13C-1,2,3,6,7,8-HxCDD	IS	89.2	25-163		22-Jun-23 13:57	1
13C-1,2,3,7,8,9-HxCDD	IS	86.4	21-193		22-Jun-23 13:57	1
13C-1,2,3,4,6,7,8-HpCDD	IS	81.3	26-166		22-Jun-23 13:57	1
13C-OCDD	IS	71.7	13-199		22-Jun-23 13:57	1
13C-2,3,7,8-TCDF	IS	89.6	22-152		22-Jun-23 13:57	1
13C-1,2,3,7,8-PeCDF	IS	91.0	21-192		22-Jun-23 13:57	1
13C-2,3,4,7,8-PeCDF	IS	88.8	13-328		22-Jun-23 13:57	1
13C-1,2,3,4,7,8-HxCDF	IS	84.2	19-202		22-Jun-23 13:57	1
13C-1,2,3,6,7,8-HxCDF	IS	90.4	21-159		22-Jun-23 13:57	1
13C-2,3,4,6,7,8-HxCDF	IS	88.1	22-176		22-Jun-23 13:57	1
13C-1,2,3,7,8,9-HxCDF	IS	84.2	17-205		22-Jun-23 13:57	1
13C-1,2,3,4,6,7,8-HpCDF	IS	83.6	21-158		22-Jun-23 13:57	1
13C-1,2,3,4,7,8,9-HpCDF	IS	81.7	20-186		22-Jun-23 13:57	1
13C-OCDF	IS	77.0	13-199		22-Jun-23 13:57	1

Sample ID: PS63-SS-01 **EPA Method 1613B**

Client Data
Name: OnSite Environmental Inc.
Project: 220795-01.01
Matrix: Sediment
Date Collected: 27-Apr-23 08:16

Laboratory Data
Lab Sample: 2305023-01
QC Batch: B23E130
Sample Size: 20.9 g
% Solids: 48.3
Date Received: 02-May-23 10:27
Date Extracted: 10-May-23
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	0.834				11-Jun-23 19:02	1
1,2,3,7,8-PeCDD	15.3				11-Jun-23 19:02	1
1,2,3,4,7,8-HxCDD	30.7				11-Jun-23 19:02	1
1,2,3,6,7,8-HxCDD	229				11-Jun-23 19:02	1
1,2,3,7,8,9-HxCDD	68.7				11-Jun-23 19:02	1
1,2,3,4,6,7,8-HpCDD	5730			D	13-Jun-23 06:52	10
OCDD	42600			D	13-Jun-23 06:52	10
2,3,7,8-TCDF	3.68				11-Jun-23 19:02	1
1,2,3,7,8-PeCDF	10.5				11-Jun-23 19:02	1
2,3,4,7,8-PeCDF	21.9				11-Jun-23 19:02	1
1,2,3,4,7,8-HxCDF	22.2				11-Jun-23 19:02	1
1,2,3,6,7,8-HxCDF	16.5				11-Jun-23 19:02	1
2,3,4,6,7,8-HxCDF	23.2				11-Jun-23 19:02	1
1,2,3,7,8,9-HxCDF	14.4				11-Jun-23 19:02	1
1,2,3,4,6,7,8-HpCDF	262				11-Jun-23 19:02	1
1,2,3,4,7,8,9-HpCDF	13.0				11-Jun-23 19:02	1
OCDF	305				11-Jun-23 19:02	1
Toxic Equivalent						
TEQMinWHO2005Dioxin	137					
Totals						
Total TCDD	3.02		10.7			
Total PeCDD	58.5		61.0			
Total HxCDD	1170					
Total HpCDD	11700					
Total TCDF	22.0		43.2			
Total PeCDF	256					
Total HxCDF	832		836			
Total HpCDF	833					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	92.2	25 - 164		11-Jun-23 19:02	1
13C-1,2,3,7,8-PeCDD	IS	103	25 - 181		11-Jun-23 19:02	1
13C-1,2,3,4,7,8-HxCDD	IS	95.7	32 - 141		11-Jun-23 19:02	1
13C-1,2,3,6,7,8-HxCDD	IS	104	28 - 130		11-Jun-23 19:02	1
13C-1,2,3,7,8,9-HxCDD	IS	95.3	32 - 141		11-Jun-23 19:02	1
13C-1,2,3,4,6,7,8-HpCDD	IS	76.5	23 - 140	D	13-Jun-23 06:52	10
13C-OCDD	IS	69.3	17 - 157	D	13-Jun-23 06:52	10
13C-2,3,7,8-TCDF	IS	81.7	24 - 169		11-Jun-23 19:02	1
13C-1,2,3,7,8-PeCDF	IS	103	24 - 185		11-Jun-23 19:02	1
13C-2,3,4,7,8-PeCDF	IS	106	21 - 178		11-Jun-23 19:02	1
13C-1,2,3,4,7,8-HxCDF	IS	87.1	26 - 152		11-Jun-23 19:02	1
13C-1,2,3,6,7,8-HxCDF	IS	95.1	26 - 123		11-Jun-23 19:02	1
13C-2,3,4,6,7,8-HxCDF	IS	86.2	28 - 136		11-Jun-23 19:02	1
13C-1,2,3,7,8,9-HxCDF	IS	80.3	29 - 147		11-Jun-23 19:02	1
13C-1,2,3,4,6,7,8-HpCDF	IS	78.1	28 - 143		11-Jun-23 19:02	1
13C-1,2,3,4,7,8,9-HpCDF	IS	70.1	26 - 138		11-Jun-23 19:02	1
13C-OCDF	IS	83.5	17 - 157		11-Jun-23 19:02	1
37Cl-2,3,7,8-TCDD	CRS	103	35 - 197		11-Jun-23 19:02	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration

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

Sample ID: PS63-SS-02 **EPA Method 1613B**

Client Data
Name: OnSite Environmental Inc.
Project: 227950-71.71
Matrix: Sediment
Date Collected: 29-Apr-23 76:41

Laboratory Data
Lab Sample: 2370723-72
QC Batch: B23E102
Sample Size: 23.0 g
% Solids: 42.8
Date Received: 72-May-23 17:29
Date Extracted: 12-May-23
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	EMPC	Qualifiers	Analyzed	Dilution
2,3,9,6-TCDD	ND		7.824		78-Jun-23 75:77	1
1,2,3,9,6-PeCDD	17.2				78-Jun-23 75:77	1
1,2,3,4,9,6-HxCDD	24.9				78-Jun-23 75:77	1
1,2,3,8,9,6-HxCDD	222				78-Jun-23 75:77	1
1,2,3,9,6,5-HxCDD	01.4				78-Jun-23 75:77	1
1,2,3,4,8,9,6-HpCDD	0877			D	78-Jun-23 27:71	17
OCDD	43177			D	78-Jun-23 27:71	17
2,3,9,6-TCDF	3.04				78-Jun-23 75:77	1
1,2,3,9,6-PeCDF	5.41				78-Jun-23 75:77	1
2,3,4,9,6-PeCDF	27.3				78-Jun-23 75:77	1
1,2,3,4,9,6-HxCDF	19.0				78-Jun-23 75:77	1
1,2,3,8,9,6-HxCDF	12.4				78-Jun-23 75:77	1
2,3,4,8,9,6-HxCDF	11.8				78-Jun-23 75:77	1
1,2,3,9,6,5-HxCDF	3.04				78-Jun-23 75:77	1
1,2,3,4,8,9,6-HpCDF	240				78-Jun-23 75:77	1
1,2,3,4,9,6,5-HpCDF	17.9				78-Jun-23 75:77	1
OCDF	471				78-Jun-23 75:77	1
Toxic Equivalent						
TEQMinWHO2770Dioxin	123					
Totals						
Total TCDD	4.10		8.29			
Total PeCDD	48.9		46.8			
Total HxCDD	1157		1277			
Total HpCDD	13877					
Total TCDF	37.9		32.3			
Total PeCDF	219		216			
Total HxCDF	802		887			
Total HpCDF	617					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,9,6-TCDD	IS	63.5	20 - 184		78-Jun-23 75:77	1
13C-1,2,3,9,6-PeCDD	IS	98.9	20 - 161		78-Jun-23 75:77	1
13C-1,2,3,4,9,6-HxCDD	IS	98.1	32 - 141		78-Jun-23 75:77	1
13C-1,2,3,8,9,6-HxCDD	IS	94.7	26 - 137		78-Jun-23 75:77	1
13C-1,2,3,9,6,5-HxCDD	IS	93.5	32 - 141		78-Jun-23 75:77	1
13C-1,2,3,4,8,9,6-HpCDD	IS	90.0	23 - 147	D	78-Jun-23 27:71	17
13C-OCDD	IS	91.0	19 - 109	D	78-Jun-23 27:71	17
13C-2,3,9,6-TCDF	IS	98.9	24 - 185		78-Jun-23 75:77	1
13C-1,2,3,9,6-PeCDF	IS	99.3	24 - 160		78-Jun-23 75:77	1
13C-2,3,4,9,6-PeCDF	IS	99.3	21 - 196		78-Jun-23 75:77	1
13C-1,2,3,4,9,6-HxCDF	IS	67.5	28 - 102		78-Jun-23 75:77	1
13C-1,2,3,8,9,6-HxCDF	IS	62.1	28 - 123		78-Jun-23 75:77	1
13C-2,3,4,8,9,6-HxCDF	IS	95.9	26 - 138		78-Jun-23 75:77	1
13C-1,2,3,9,6,5-HxCDF	IS	98.4	25 - 149		78-Jun-23 75:77	1
13C-1,2,3,4,8,9,6-HpCDF	IS	93.7	26 - 143		78-Jun-23 75:77	1
13C-1,2,3,4,9,6,5-HpCDF	IS	88.8	28 - 136		78-Jun-23 75:77	1
13C-OCDF	IS	88.2	19 - 109		78-Jun-23 75:77	1
39Cl-2,3,9,6-TCDD	CRS	170	30 - 159		78-Jun-23 75:77	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration

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

Sample ID: PS63-SS-03 **y PE A etMbh d6d3B**

Client Data
Name: OnSite Environmental Inc.
Project: 220795-01.01
Matrix: Sediment
Date Collected: 27-Xpr-23 09:03

1 aLboatbor Data
Lab Sample: 2305023-03
QC Batch: B23E130
Sample Size: 27.3 8
% Solids: 34.4
Date Aeceived: 02-Ma6-23 10:27
Date Extracted: 10-Ma6-23
Colgmn: uB-DIOZIN

Enalrte	Cbnc. (pg/g)	y D1	y A PC	Qualifieos	Enalrzeh	Dilutibn
2R7Ry-, CDD	2.39				11-Tgn-23 19:J7	1
1R2R7Ry-PeCDD	32.2				11-Tgn-23 19:J7	1
1R2R3R7Ry-HxCDD	79.1				11-Tgn-23 19:J7	1
1R2R3R4Ry-HxCDD	479				11-Tgn-23 19:J7	1
1R2R3R7Ry9-HxCDD	1y7				11-Tgn-23 19:J7	1
1R2R3R4R7Ry-HpCDD	17900			D	15-Tgn-23 00:51	10
OCDD	131000			D	2J-Tgn-23 07:24	5
2R7Ry-, CDF	11.5				11-Tgn-23 19:J7	1
1R2R7Ry-PeCDF	31.2				11-Tgn-23 19:J7	1
2R3R7Ry-PeCDF	4y.7				11-Tgn-23 19:J7	1
1R2R3R7Ry-HxCDF	72.3				11-Tgn-23 19:J7	1
1R2R4R7Ry-HxCDF	J9.9				11-Tgn-23 19:J7	1
2R3R4R7Ry-HxCDF	42.2				11-Tgn-23 19:J7	1
1R2R7Ry9-HxCDF	33.4				11-Tgn-23 19:J7	1
1R2R3R4R7Ry-HpCDF	1020				11-Tgn-23 19:J7	1
1R2R3R7Ry9-HpCDF	J7.4				11-Tgn-23 19:J7	1
OCDF	1730				11-Tgn-23 19:J7	1
Tbxic y quivalent						
, EQMinWHO2005Dioxin	J03					
Tbtals						
, otal , CDD	43.J		45.4			
, otal PeCDD	212		239			
, otal HxCDD	3550					
, otal HpCDD	32700					
, otal , CDF	10y		110			
, otal PeCDF	y01					
, otal HxCDF	2740					
, otal HpCDF	3J10					

1 aLeleh Stanhaohs	Trpe	% Recbveor	1 imits	Qualifieos	Enalrzeh	Dilutibn
13C-2R7Ry-, CDD	IS	y7.2	25 - 14J		11-Tgn-23 19:J7	1
13C-1R2R7Ry-PeCDD	IS	97.1	25 - 1y1		11-Tgn-23 19:J7	1
13C-1R2R3R7Ry-HxCDD	IS	y9.3	32 - 1J1		11-Tgn-23 19:J7	1
13C-1R2R3R4Ry-HxCDD	IS	97.0	2y - 130		11-Tgn-23 19:J7	1
13C-1R2R3R7Ry9-HxCDD	IS	y5.3	32 - 1J1		11-Tgn-23 19:J7	1
13C-1R2R3R4R7Ry-HpCDD	IS	7y.3	23 - 1J0	D	15-Tgn-23 00:51	10
13C-OCDD	IS	11J	17 - 157	D	2J-Tgn-23 07:24	5
13C-2R3R7Ry-, CDF	IS	75.3	2J - 149		11-Tgn-23 19:J7	1
13C-1R2R7Ry-PeCDF	IS	9J.2	2J - 1y5		11-Tgn-23 19:J7	1
13C-2R3R4R7Ry-PeCDF	IS	95.3	21 - 17y		11-Tgn-23 19:J7	1
13C-1R2R3R7Ry-HxCDF	IS	79.9	24 - 152		11-Tgn-23 19:J7	1
13C-1R2R4R7Ry-HxCDF	IS	yy.J	24 - 123		11-Tgn-23 19:J7	1
13C-2R3R4R7Ry-HxCDF	IS	74.3	2y - 134		11-Tgn-23 19:J7	1
13C-1R2R7Ry9-HxCDF	IS	72.5	29 - 1J7		11-Tgn-23 19:J7	1
13C-1R2R3R4R7Ry-HpCDF	IS	71.J	2y - 1J3		11-Tgn-23 19:J7	1
13C-1R2R3R7Ry9-HpCDF	IS	4J.7	24 - 13y		11-Tgn-23 19:J7	1
13C-OCDF	IS	y0.7	17 - 157		11-Tgn-23 19:J7	1
37Cl-2R3R7Ry-, CDD	CAS	95.4	35 - 197		11-Tgn-23 19:J7	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximgm possible concentration

, he resglts are reported in dr6 wei8ht.
, he sample size is reported in wet wei8ht.

Sample ID: PS63-SS-04 **EPA Method 1613B**

Client Data
Name: n vSite EvI irovmevtal 4vc.
Project: 220795-01.01
Matrix: Sedimevt
Date Collected: 27-Apr-23 09:23

Laboratory Data
Lab Sample: 2305023-0%
QC Batch: B23E130
Sample Size: 18.8 g
s SolidO 53.2
Date 6 eceiI ed: 02-MaR-23 10:27
Date Extracted: 10-MaR-23
Columv: ZB-D4n X4N

Analyte	Conc. (pg/g)	EDL	EMPC	Qualifiers	Analyzed	Dilution
2y3y7y8-, CDD	3.37				11-Tuv-23 17:32	1
1y2y3y7y8-PeCDD	51.2				11-Tuv-23 17:32	1
1y2y3y%y7y8-J xCDD	132				11-Tuv-23 17:32	1
1y2y3yHy7y8-J xCDD	H59				11-Tuv-23 17:32	1
1y2y3y7y8y9-J xCDD	273				11-Tuv-23 17:32	1
1y2y3y%yHy7y8-J pCDD	25000			D	15-Tuv-23 01:3H	10
n CDD	3%1000			DyE	29-Tuv-23 02:1H	10
2y3y7y8-, CDF	H25				11-Tuv-23 17:32	1
1y2y3y7y8-PeCDF	21.2				11-Tuv-23 17:32	1
2y3y%y7y8-PeCDF	27.%				11-Tuv-23 17:32	1
1y2y3y%y7y8-J xCDF	71.0				11-Tuv-23 17:32	1
1y2y3yHy7y8-J xCDF	5H7				11-Tuv-23 17:32	1
2y3y%yHy7y8-J xCDF	32.1				11-Tuv-23 17:32	1
1y2y3y7y8y9-J xCDF	1%7				11-Tuv-23 17:32	1
1y2y3y%yHy7y8-J pCDF	1530				11-Tuv-23 17:32	1
1y2y3y%y7y8y9-J pCDF	158				11-Tuv-23 17:32	1
n CDF	7%00			D	15-Tuv-23 01:3H	10
Toxic Equivalent						
, EQMivWJ n 2005Dioxiv	559					
Totals						
, otal , CDD	1H1		1HH			
, otal PeCDD	19%					
, otal J xCDD	3290					
, otal J pCDD	3%300					
, otal , CDF	50.8		53.9			
, otal PeCDF	H09					
, otal J xCDF	25H0					
, otal J pCDF	5980					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2y3y7y8-, CDD	4S	92.8	25 - 1H%		11-Tuv-23 17:32	1
13C-1y2y3y7y8-PeCDD	4S	108	25 - 181		11-Tuv-23 17:32	1
13C-1y2y3y%y7y8-J xCDD	4S	102	32 - 1%1		11-Tuv-23 17:32	1
13C-1y2y3yHy7y8-J xCDD	4S	111	28 - 130		11-Tuv-23 17:32	1
13C-1y2y3y7y8y9-J xCDD	4S	102	32 - 1%1		11-Tuv-23 17:32	1
13C-1y2y3y%yHy7y8-J pCDD	4S	92.1	23 - 1%0	D	15-Tuv-23 01:3H	10
13C-n CDD	4S	99.H	17 - 157	D	29-Tuv-23 02:1H	10
13C-2y3y7y8-, CDF	4S	79.2	2%- 1H9		11-Tuv-23 17:32	1
13C-1y2y3y7y8-PeCDF	4S	102	2%- 185		11-Tuv-23 17:32	1
13C-2y3y%y7y8-PeCDF	4S	103	21 - 178		11-Tuv-23 17:32	1
13C-1y2y3y%y7y8-J xCDF	4S	91.H	2H- 152		11-Tuv-23 17:32	1
13C-1y2y3yHy7y8-J xCDF	4S	101	2H- 123		11-Tuv-23 17:32	1
13C-2y3y%yHy7y8-J xCDF	4S	92.1	28 - 13H		11-Tuv-23 17:32	1
13C-1y2y3y7y8y9-J xCDF	4S	78.3	29 - 1%7		11-Tuv-23 17:32	1
13C-1y2y3y%yHy7y8-J pCDF	4S	83.1	28 - 1%3		11-Tuv-23 17:32	1
13C-1y2y3y%y7y8y9-J pCDF	4S	70.9	2H- 138		11-Tuv-23 17:32	1
13C-n CDF	4S	88.1	17 - 157	D	15-Tuv-23 01:3H	10
37Cl-2y3y7y8-, CDD	C6 S	9H7	35 - 197		11-Tuv-23 17:32	1

EDL - Sample Qpecifc eOimated detectiov limit
EMPC - EOimated maximum poOble covcevtratiov

, he reOltOare reported iv drR weight.
, he Qample Qze iOreported iv wet weight.

Sample ID: PS63-SS-05 **EPA Method 1613B**

Client Data
Name: OnSite Environmental Inc.
Project: 220795-01.01
Matrix: Sediment
Date Collected: 27-Apr-23 09:49

Laboratory Data
Lab Sample: 2305023-05
QC Batch: B23E130
Sample Size: 24.8 g
% Solids: 40.7
Date 6 eceived: 02-MaR-23 10:27
Date Extracted: 10-MaR-23
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	EDL	EMPC	Qualifiers	Analyzed	Dilution
2y3y7y -TCDD	2.51				11-Jun-23 1, :17	1
1y2y3y7y -PeCDD	37.0				11-Jun-23 1, :17	1
1y2y3y4y7y -HxCDD	72.8				11-Jun-23 1, :17	1
1y2y3y8y7y -HxCDD	541				11-Jun-23 1, :17	1
1y2y3y7y y9-HxCDD	151				11-Jun-23 1, :17	1
1y2y3y4y8y7y -HpCDD	13, 00			D	13-Jun-23 07:37	20
OCDD	, 9200			D	13-Jun-23 07:37	20
2y3y7y -TCDF	8., 0				11-Jun-23 1, :17	1
1y2y3y7y -PeCDF	22.2				11-Jun-23 1, :17	1
2y3y4y7y -PeCDF	4, .0				11-Jun-23 1, :17	1
1y2y3y4y7y -HxCDF	51.7				11-Jun-23 1, :17	1
1y2y3y8y7y -HxCDF	39.9				11-Jun-23 1, :17	1
2y3y4y8y7y -HxCDF	4, .1				11-Jun-23 1, :17	1
1y2y3y7y y9-HxCDF	30.4				11-Jun-23 1, :17	1
1y2y3y4y8y7y -HpCDF	821				11-Jun-23 1, :17	1
1y2y3y4y7y y9-HpCDF	24.2				11-Jun-23 1, :17	1
OCDF	521				11-Jun-23 1, :17	1
Toxic Equivalent						
TEQMinWHO2005Dioxin	320					
Totals						
Total TCDD	12.3		14.,			
Total PeCDD	159		183			
Total HxCDD	2380					
Total HpCDD	1, 800					
Total TCDF	59.4		80.2			
Total PeCDF	542		543			
Total HxCDF	1980					
Total HpCDF	1910					

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2y3y7y -TCDD	IS	97.9	25 - 184		11-Jun-23 1, :17	1
13C-1y2y3y7y -PeCDD	IS	110	25 - 1, 1		11-Jun-23 1, :17	1
13C-1y2y3y4y7y -HxCDD	IS	99.4	32 - 141		11-Jun-23 1, :17	1
13C-1y2y3y8y7y -HxCDD	IS	110	2, - 130		11-Jun-23 1, :17	1
13C-1y2y3y7y y9-HxCDD	IS	101	32 - 141		11-Jun-23 1, :17	1
13C-1y2y3y4y8y7y -HpCDD	IS	, 1.7	23 - 140	D	13-Jun-23 07:37	20
13C-OCDD	IS	, 3.4	17 - 157	D	13-Jun-23 07:37	20
13C-2y3y7y -TCDF	IS	, 2.3	24 - 189		11-Jun-23 1, :17	1
13C-1y2y3y7y -PeCDF	IS	10,	24 - 1, 5		11-Jun-23 1, :17	1
13C-2y3y4y7y -PeCDF	IS	109	21 - 17,		11-Jun-23 1, :17	1
13C-1y2y3y4y7y -HxCDF	IS	, 9.0	28 - 152		11-Jun-23 1, :17	1
13C-1y2y3y8y7y -HxCDF	IS	101	28 - 123		11-Jun-23 1, :17	1
13C-2y3y4y8y7y -HxCDF	IS	90.0	2, - 138		11-Jun-23 1, :17	1
13C-1y2y3y7y y9-HxCDF	IS	, 0.9	29 - 147		11-Jun-23 1, :17	1
13C-1y2y3y4y8y7y -HpCDF	IS	78.8	2, - 143		11-Jun-23 1, :17	1
13C-1y2y3y4y7y y9-HpCDF	IS	87.9	28 - 13,		11-Jun-23 1, :17	1
13C-OCDF	IS	79.4	17 - 157		11-Jun-23 1, :17	1
37Cl-2y3y7y -TCDD	C6 S	102	35 - 197		11-Jun-23 1, :17	1

EDL - Sample specifc estimated detection limit
EMPC - Estimated maximum possible concentration

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

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)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
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.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.

2305023 2.6°C

OnSite Environmental Inc.

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 04-330

Laboratory: Vista Analytical Laboratory

Attention: Jennifer Miller

Address: 1104 Windfield Way, El Dorado Hills, CA 95762

Phone Number: (916) 673-1520

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 220795-01.01

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	PS63-SS-01	4/27/23	8:16	Sed	1	Dioxin/Furans USEPAs 1613B
	PS63-SS-02	4/27/23	8:41	Sed	1	Dioxin/Furans USEPAs 1613B
	PS63-SS-03	4/27/23	9:03	Sed	1	Dioxin/Furans USEPAs 1613B
	PS63-SS-04	4/27/23	9:23	Sed	1	Dioxin/Furans USEPAs 1613B
	PS63-SS-05	4/27/23	9:49	Sed	1	Dioxin/Furans USEPAs 1613B

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	5/1/23	1600	
Received by:	UPS			
Relinquished by:	UPS			
Received by:	Enthalpy EDF	05/02/23	10:27	
Relinquished by:				
Received by:				

Sample Log-In Checklist

ENTHALPY ANALYTICAL

Page # 1 of 1

Work Order #: 2305023 **TAT** 42

Samples Arrival:	**Date/Time** 05/02/23 10:27		**Initials:** KM		**Location:** WR-2 **Shelf/Rack:** Rack		
Delivered By:	FedEx	UPS	On Trac	GLS	DHL	Hand Delivered	Other
Preservation:	Ice		Blue Ice		Techni Ice	Dry Ice	None
Temp °C: 1.2 (uncorrected) **Temp °C:** 2.6 (corrected)			**Probe used: Y / N**		**Thermometer ID:** IR-4		

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?			✓
Airbill / Trk # 1Z 684 E4W 01 9719 4247	✓		
Shipping Documentation Present?	✓		
Shipping Container: Enthalpy / Client / Retain / Return / Dispose	✓		
Chain of Custody / Sample Documentation Present?	✓		
Chain of Custody / Sample Documentation Complete?	✓		
Holding Time Acceptable?	✓		

Logged In:	**Date/Time** 05/03/23 09:54	**Initials:** BAC	**Location:** WR-2 **Shelf/Rack:** G-3	
COC Anomaly/Sample Acceptance Form completed?			✓	✓

Comments:

CoC/Label Reconciliation Report WO# 2305023

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2305023-01	A PS63-SS-01	☑		27-Apr-23 08:16 ☑	Clear Glass Jar, 250mL	Solid	
2305023-02	A PS63-SS-02	☑		27-Apr-23 08:41 ☑	Clear Glass Jar, 250mL	Solid	
2305023-03	A PS63-SS-03	☑		27-Apr-23 09:03 ☑	Clear Glass Jar, 250mL	Solid	
2305023-04	A PS63-SS-04	☑		27-Apr-23 09:23 ☑	Clear Glass Jar, 250mL	Solid	
2305023-05	A PS63-SS-05	☑		27-Apr-23 09:49 ☑	Clear Glass Jar, 250mL	Solid	

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

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?		✓	✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		

Comments:

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: BAC 05/03/23
KW 05/03/23

EXTRACTION INFORMATION

Process Sheet

Workorder: 2305023

Prep Expiration: 2024-04-26
Client: OnSite Environmental Inc.

Workorder Due: 13-Jun-23 00:00

TAT: 42

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

Prep Batch: B23E130

Prep Data Entered: IoA 05/10/23
Date and Initials

Initial Sequence: S23F025

Lab PM: Kathy Zipp

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Date Received	Location	Comments
2305023-01	A	☑	☑	PS63-SS-01	02-May-23 10:27	WR-2 G-3	
2305023-02		☑	☑	PS63-SS-02	02-May-23 10:27	WR-2 G-3	
2305023-03		☑	☑	PS63-SS-03	02-May-23 10:27	WR-2 G-3	
2305023-04		☑	☑	PS63-SS-04	02-May-23 10:27	WR-2 G-3	
2305023-05		☑	☑	PS63-SS-05	02-May-23 10:27	WR-2 G-3	

Pre-Prep Check Out: MCB 05/04/23
Pre-Prep Check In: MCB 05/04/23

Prep Check Out: RSA 05/11/23
Prep Check In: RSA 05/11/23

Prep Reconciled Initals/Date: MCB 05/04/23
Spike Reconciled Initals/Date: RSA 05/11/23
VialBoxID: You good?

PREPARATION BENCH SHEET

Matrix: Solid

B23E130

Chemist: RSA

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 10-May-23 15:40

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
		Column Packer:		N/A	HWS 05/15/23	HWS 05/15/23				
	B23E130-BLK1	NA	(10.00)	HWS RSA 05/11/23	IOA HWS 05/15/23	N/A	HWS 05/15/23	HWS 05/15/23	IOA 05/16/23	RSA IOA 05/16/23
	B23E130-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓
	2304196-04	13.95	13.98				pink/blue			
	2305023-01	20.71	20.86				purple, blue, black, yellow			
7	2305023-02 †	~~23.45~~	~~23.51~~							
	2305023-03	27.30	27.33				black, brown, orange, yellow			
	2305023-04	18.80	18.84				black, pale yellow			
	2305023-05	24.57	~~24.64~~ *				black, yellow			

* 24.64 RSA 05/11/23

† Sample went dry and will be re-extracted on its own

RSA 05/12/23

IS: 23D2603, 10uL (V10)	Cycle Time	APP: SEFUN (SOX) SDS	Check Out: Chemist/Date: RSA 05/11/23	Soxhlet Siphoned Chemist/Date:	Notes:
NS: 216080, 10uL (V2)	Start Date/Time 05/11/23 ~~1027~~	SOLV: Toluene	Check In: Chemist/Date: RSA 05/11/23	RSA 05/11/23	
PS/CRS: 23A0405 10mL (V4)	Stop Date/Time 0623 05/12/23	Other NA	Balance ID: HRMS-8	Vial Transfer Chemist/Date: IOA 05/16/23	
RS: 23A0406 10mL (V4)		Final Volume(s) 20uL C14			
(Diox/F) PCB PAH PEST PBDE HCB					

Comments:

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

ENTHALPY ANALYTICAL

Batch: B23E130

Matrix: Solid

	WetWeight Initial (g)	% Solids (Extraction Solids)	DryWeight Initial (g)	Final (uL)	Extracted	Ext By	Spike	SpikeAmount (uL)	ClientMatrix	Analysis
2304196-04	13.98	71.69043	10.0223	20	10-May-23 15:40	RSA			Soil	1613 Full List
2305023-01	20.86	48.28711	10.0727	20	10-May-23 15:40	RSA			Sediment	1613 Full List
2305023-02	23.51	42.63566	10.0236	20	10-May-23 15:40	RSA			Sediment	1613 Full List
2305023-03	27.33	36.63366	10.0120	20	10-May-23 15:40	RSA			Sediment	1613 Full List
2305023-04	18.84	53.18108	10.0193	20	10-May-23 15:40	RSA			Sediment	1613 Full List
2305023-05	24.64	40.69265	10.0267	20	10-May-23 15:40	RSA			Sediment	1613 Full List
B23E130-BLK1	10			20	10-May-23 15:40	RSA				QC
B23E130-BS1	10			20	10-May-23 15:40	RSA	21G0801	10		QC

All bolded data on report verified against written benchsheet by (initial/date) IoA 05|16|23

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B23E050

Analyst: CMcG
Analyte:
Oven ID: Dried at 110°C+/-5°C (01) 02

Test Code: %Moist/%Solids
Units: %

Data Entry Verified by:
(Initial and Date)_____

Inst MRMS-8

Date/Time IN: 05/04/23 1100
Date/Time OUT: 05/05/23 1212

	B	C	D	E	F	G	H	I	K	L	M	N	O	P
				Intial and Date:	CMcG 05/04/23	CMcG 05/05/23			CMcG 05/04/23					CMcG 05/04/23
Particle Size	SampID		SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
	2305023-01		Sample	1.28	7.41	4.24			Shells					X
	2305023-02		Sample	1.28	7.73	4.03			Mud					X
	2305023-03		Sample	1.28	8.35	3.82			Mud					X
	2305023-04		Sample	1.28	7.41	4.64			Shells					X
	2305023-05		Sample	1.29	5.91	3.17			Shells					X

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B23E050

Analyst: SMB **Test Code:** %Moist/%Solids

Analyte: **Units:** %

Dried at 110°C+/-5°C

Oven ID: 01 , 02

Data Entry Verified by: SMB (Initial and Date) 05/05/23

Inst HRMS-8

Date/Time IN:	Date/Time OUT
05/04/23 1100	05/05/23 1212

	B	C	D	E	F	G	H	I	K	L	M	N	O	P
				Intial and Date:	SMB 05/04/23	SMB 05/05/23			SMB 05/04/23					SMB 05/04/23
Particle Size	SampID		SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
	2305023-01	A	Sample	1.2800	7.4100	4.2400	2.9600	48.29	Shells					X
	2305023-02	A	Sample	1.2800	7.7300	4.0300	2.7500	42.64	Mud					X
	2305023-03	A	Sample	1.2800	8.3500	3.8700	2.5900	36.63	Mud					X
	2305023-04	A	Sample	1.2800	7.4100	4.5400	3.2600	53.18	Shells					X
	2305023-05	A	Sample	1.2900	5.9100	3.1700	1.8800	40.69	Shells					X

*Sample homogenized in sample container unless otherwise noted.

RX RSA 05/12/23

Process Sheet

Workorder: 2305023

Prep Expiration: 2024-04-26
Client: OnSite Environmental Inc.

Workorder Due: 13-Jun-23 00:00

TAT: 42

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

Prep Batch: B23F152

Prep Data Entered: IOA 05/16/23
Date and Initials

Initial Sequence: S23F008

Lab PM: Kathy Zipp

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Date Received	Location	Comments
~~2305023-01~~		☐	☐	~~PS63-SS-01~~	~~02-May-23 10:27~~	~~WR-2 G-3~~	
2305023-02	A	☑	☑	PS63-SS-02	02-May-23 10:27	WR-2 G-3	
~~2305023-03~~		☐	☐	~~PS63-SS-03~~	~~02-May-23 10:27~~	~~WR-2 G-3~~	
2305023-04		☐	☐	PS63-SS-04	02-May-23 10:27	WR-2 G-3	
~~2305023-05~~		☐	☐	~~PS63-SS-05~~	~~02-May-23 10:27~~	~~WR-2 G-3~~	

Pre-Prep Check Out: N/A
Pre-Prep Check In: N/A

Prep Check Out: RSA 05/12/23
Prep Check In: RSA 05/12/23

Prep Reconciled Initals/Date: RSA 05/12/23
Spike Reconciled Initals/Date: SMCB 05/12/23
VialBoxID: you good?

PREPARATION I

Matrix: Solid

B23E152

Chemist: RSA

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 12-May-23 08:14

					Column Packer:	N/A	HWJ 05/15/23	HWJ 05/15/23		
Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
	B23E152-BLK1	NA	(10.00)	RSA 05/12/23	IOA HWJ 05/15/23	N/A	HWJ 05/15/23	HWJ 05/15/23	IOA 05/16/23	RSA IOA 05/16/23
	B23E152-BS1	↓	↓	↓	↓	↓	↓	↓	↓	↓
	2305023-02RE1	23.45	23.46	↓	↓	↓	↓*	↓ black, brown, yellow	↓	↓

HWJ 05/15/23

* color present in ABSG not AA

IS: 23D2605 10mL (V10)

NS: 21G0501 10mL (V2)

PS/CRS: 23A0405 10mL (V4)

RS: 23A0406 10mL (V4)

(Diox/F) PCB PAH PEST PBDE HCB

Cycle Time

Start Date/Time 05/12/23 1223

Stop Date/Time 05/13/23 0600

APP: SEFUN (SOX) SDS

SOLV: Toluene

Other NA

Final Volume(s) 20uL

C

Check Out: Chemist/Date: RSA 05/12/23

Check In: Chemist/Date: RSA 05/12/23

Balance ID: HRMS-8

Soxhlet Siphoned Chemist/Date: RSA 05/16/23

Vial Transfer Chemist/Date: IOA 05/16/23

Notes:

Comments:

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

ENTHALPY ANALYTICAL

Batch: B23E152

Matrix: Solid

	WetWeight Initial (g)	% Solids (Extraction Solids)	DryWeight Initial (g)	Final (uL)	Extracted	Ext By	Spike	SpikeAmount (uL)	ClientMatrix	Analysis
2305023-02RE1	23.46	42.63566	10.0023	20	12-May-23 08:14	RSA			Sediment	1613 Full List
B23E152-BLK1	10			20	12-May-23 08:14	RSA				QC
B23E152-BS1	10			20	12-May-23 08:14	RSA	21G0801	10		QC

All bolded data on report verified against written benchsheet by (initial/date) TJA 05/10/23

Rx

6/15/2023
KDZ

Process Sheet

Workorder: 2305023

Prep Expiration: 2024-04-26
Client: OnSite Environmental Inc.

Workorder Due: 13-Jun-23 00:00

TAT: 42

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

Prep Batch: B23F146

Prep Data Entered: 06/20/23 RSA
Date and Initials

Initial Sequence: 523F062

Lab PM: Kathy Zipp

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Date Received	Location	Comments
~~2305023-01~~		☐	☐	~~PS63-SS-01~~	~~02-May-23 10:27~~	~~WR-2 G-3~~	
~~2305023-02~~		☐	☐	~~PS63-SS-02~~	~~02-May-23 10:27~~	~~WR-2 G-3~~	
2305023-03	A	☑	☑	PS63-SS-03	02-May-23 10:27	WR-2 G-3	
2305023-04	↓	☑	☑	PS63-SS-04	02-May-23 10:27	WR-2 G-3	
~~2305023-05~~		☐	☐	~~PS63-SS-05~~	~~02-May-23 10:27~~	~~WR-2 G-3~~	

WO Comments: **Rx 2g on samples 3 & 4.**

Pre-Prep Check Out: NA
Pre-Prep Check In: NA

Prep Check Out: RRR 06/16/23
Prep Check In: RRR 06/16/23

Prep Reconciled Initals/Date: RRR 06/16/23
Spike Reconciled Initals/Date: MEB 06/16/23
VialBoxID: NO Phones

PREPARATION BENCH SHEET

Matrix: Solid

B23F146

Chemist: RRR

Method: 1613 Full List
Method: 1613 2.3.7.8-TCDD Only
Method: 8290 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 16-Jun-23 08:33

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
	Column Packer:					NA	RSA	RSA	RSA	
	B23F146-BLK1	NA	(5.00)	RRR MEB 06/16/23	RSA 06/19/23 JPG	NA	RSA 06/19/23	RSA 06/19/23	RSA 06/19/23	RSA 06/20/23 IOA
	B23F146-BS1	↓	(5.00)	↓	↓	↓	↓	↓	↓	↓
	2305023-03RE1	5.46	5.56				Brown ↓		↓	
	2305023-04RE1	3.76	3.80							
	2305075-01RE2 (3)	36.80	36.85				Brown		NA	
	2306021-01RE1 (A)	0.25	0.26	↓	↓	↓	↓	↓	RSA 06/19/23	↓

(A) Sample precipitated during rotovapping Before running it through ABSG/AA column. RSA 06/19/23

IS: 23D2603, 10mL (V8)
NS: 21G0801, 10mL (V2)
CRS/CRS: 23A0405, 10mL (V2)
RS: 23A0406, 10mL (V3)
Diox/F PCB PAH PEST PBDE HCB

Cycle Time
Start Date/Time: 06/16/23 1200
Stop Date/Time: 0800 06/17/23

APP: SEFUN SOX SDS
SOLV: Toluene
Other: NA
Final Volume(s): C14 20mL

Check Out: Chemist/Date: RRR 06/16/23
Check In: Chemist/Date: RRR 06/16/23
Balance ID: HRMS-12

Soxhlet Siphoned Chemist/Date: RRR 06/16/23
Vial Transfer Chemist/Date: RSA 06/20/23

Notes:

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

ENTHALPY ANALYTICAL

Batch: B23F146

Matrix: Solid

	WetWeight Initial (g)	% Solids (Extraction Solids)	DryWeight Initial (g)	Final (uL)	Extracted	Ext By	Spike	SpikeAmount (uL)	ClientMatrix	Analysis
2305023-03RE1	**5.56**	**36.63366**	**2.0368**	**20**	**10-May-23 15:40**	**RRR**			Sediment	1613 Full List
2305023-04RE1	**3.8**	**53.18108**	**2.0209**	**20**	**10-May-23 15:40**	**RRR**			Sediment	1613 Full List
2305075-01RE2	**36.85**	**13.58575**	**5.0063**	**20**	**16-Jun-23 08:33**	**RRR**			Solid	1613 2,3,7,8-TCDD Only
2306021-01RE1	**0.26**			**20**	**16-Jun-23 08:33**	**RRR**			Solid	8290 Full List
B23F146-BLK1	**5**			**20**	**16-Jun-23 08:33**	**RRR**				QC
B23F146-BS1	**5**			**20**	**16-Jun-23 08:33**	**RRR**	**21G0801**	**10**		QC

All bolded data on report verified against written benchsheet by (initial/date) RSA 06/20/2023

Printed: 6/20/2023 9:56:43AM

SAMPLE DATA – EPA METHOD 1613

Vista Analytical Laboratory

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-5.qld

Last Altered: Monday, June 12, 2023 8:44:38 AM Pacific Daylight Time
Printed: Monday, June 12, 2023 2:40:39 PM Pacific Daylight Time

DFO 06/12/23
dmy 06-12-2023

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.906	10.000	26.790		1.001				0.0546	
2	2 1,2,3,7,8-PeCDD			NO	0.745	10.000	31.012		1.001				0.0988	
3	3 1,2,3,4,7,8-HxCDD			NO	0.837	10.000	34.331		1.000				0.231	
4	4 1,2,3,6,7,8-HxCDD			NO	0.782	10.000	34.467		1.001				0.233	
5	5 1,2,3,7,8,9-HxCDD			NO	0.780	10.000	34.760		1.001				0.262	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.903	10.000	38.103		1.000				0.184	
7	7 OCDD			NO	0.782	10.000	41.457		1.000				0.554	
8	8 2,3,7,8-TCDF			NO	0.852	10.000	26.162		1.000				0.0390	
9	9 1,2,3,7,8-PeCDF			NO	0.758	10.000	29.899		1.001				0.0553	
10	10 2,3,4,7,8-PeCDF			NO	0.834	10.000	30.849		1.001				0.0443	
11	11 1,2,3,4,7,8-HxCDF			NO	0.762	10.000	33.399		1.000				0.0504	
12	12 1,2,3,6,7,8-HxCDF			NO	0.726	10.000	33.545		1.001				0.0498	
13	13 2,3,4,6,7,8-HxCDF			NO	0.756	10.000	34.237		1.001				0.0560	
14	14 1,2,3,7,8,9-HxCDF			NO	0.749	10.000	35.294		1.000				0.0893	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.754	10.000	36.921		1.000				0.170	
16	16 1,2,3,4,7,8,9-HpCDF			NO	0.792	10.000	38.816		1.000				0.231	
17	17 OCDF			NO	0.669	10.000	41.801		1.000				0.276	
18	18 13C-2,3,7,8-TCDD	3.08e5	0.72	NO	1.13	10.000	26.748	26.76	1.026	1.026	182.91	91.5	0.335	
19	19 13C-1,2,3,7,8-PeCDD	2.52e5	0.61	NO	0.869	10.000	30.709	30.99	1.178	1.189	193.96	97.0	0.507	
20	20 13C-1,2,3,4,7,8-HxCDD	1.64e5	1.28	NO	0.746	10.000	34.300	34.32	1.013	1.014	193.67	96.8	1.21	
21	21 13C-1,2,3,6,7,8-HxCDD	1.87e5	1.22	NO	0.803	10.000	34.452	34.45	1.018	1.018	204.90	102	1.12	
22	22 13C-1,2,3,7,8,9-HxCDD	1.77e5	1.30	NO	0.817	10.000	34.747	34.74	1.026	1.026	190.81	95.4	1.10	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.03e5	1.03	NO	0.611	10.000	38.091	38.09	1.125	1.125	148.52	74.3	1.16	
24	24 13C-OCDD	1.48e5	0.85	NO	0.545	10.000	41.408	41.44	1.223	1.224	239.95	60.0	1.22	
25	25 13C-2,3,7,8-TCDF	3.41e5	0.76	NO	1.07	10.000	26.156	26.15	1.003	1.003	159.85	79.9	0.352	
26	26 13C-1,2,3,7,8-PeCDF	3.56e5	1.59	NO	0.907	10.000	29.848	29.88	1.145	1.146	197.97	99.0	0.784	
27	27 13C-2,3,4,7,8-PeCDF	3.50e5	1.60	NO	0.889	10.000	30.808	30.83	1.181	1.182	198.25	99.1	0.800	
28	28 13C-1,2,3,4,7,8-HxCDF	1.99e5	0.49	NO	0.993	10.000	33.406	33.39	0.987	0.986	176.36	88.2	0.947	
29	29 13C-1,2,3,6,7,8-HxCDF	2.24e5	0.50	NO	1.05	10.000	33.528	33.53	0.990	0.990	187.43	93.7	0.893	
30	30 13C-2,3,4,6,7,8-HxCDF	1.86e5	0.50	NO	0.956	10.000	34.205	34.22	1.010	1.011	171.78	85.9	0.984	
31	31 13C-1,2,3,7,8,9-HxCDF	1.47e5	0.49	NO	0.853	10.000	35.271	35.28	1.042	1.042	152.21	76.1	1.10	

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-5.qld

Last Altered: Monday, June 12, 2023 8:44:38 AM Pacific Daylight Time
Printed: Monday, June 12, 2023 2:40:39 PM Pacific Daylight Time

Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

	#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32	13C-1,2,3,4,6,7,8-HpCDF	1.21e5	0.40	NO	0.721	10.000	36.889	36.90	1.090	1.090	148.38	74.2	1.34	
33	33	13C-1,2,3,4,7,8,9-HpCDF	8.05e4	0.40	NO	0.581	10.000	38.782	38.81	1.146	1.146	122.23	61.1	1.66	
34	34	13C-OCDF	1.85e5	0.90	NO	0.718	10.000	41.798	41.79	1.235	1.235	227.58	56.9	0.860	
35	35	37Cl-2,3,7,8-TCDD	1.13e5			0.980	10.000	26.758	26.77	1.026	1.027	77.068	96.3	0.0782	
36	36	13C-1,2,3,4-TCDD	2.99e5	0.77	NO	1.00	10.000	26.110	26.08	1.000	1.000	200.00	100	0.377	
37	37	13C-1,2,3,4-TCDF	3.97e5	0.76	NO	1.00	10.000	24.810	24.81	1.000	1.000	200.00	100	0.377	
38	38	13C-1,2,3,4,6,9-HxCDF	2.27e5	0.49	NO	1.00	10.000	33.840	33.85	1.000	1.000	200.00	100	0.941	
39	39	Total Tetra-Dioxins				0.906	10.000	24.620		0.000				0.0372	
40	40	Total Penta-Dioxins				0.745	10.000	29.960		0.000				0.0345	
41	41	Total Hexa-Dioxins				0.782	10.000	33.635		0.000				0.165	
42	42	Total Hepta-Dioxins				0.903	10.000	37.640		0.000				0.109	
43	43	Total Tetra-Furans				0.852	10.000	23.610		0.000				0.0132	
44	44	1st Func. Penta-Furans				0.758	10.000	27.450		0.000				0.0162	
45	45	Total Penta-Furans				0.758	10.000	29.275		0.000				0.0205	
46	46	Total Hexa-Furans				0.756	10.000	33.555		0.000				0.0288	
47	47	Total Hepta-Furans				0.754	10.000	37.835		0.000				0.0679	

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-5.qld

Last Altered: Monday, June 12, 2023 8:44:38 AM Pacific Daylight Time
Printed: Monday, June 12, 2023 2:40:39 PM Pacific Daylight Time

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-5.qld

Last Altered: Monday, June 12, 2023 8:44:38 AM Pacific Daylight Time
Printed: Monday, June 12, 2023 2:40:39 PM Pacific Daylight Time

Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: **Method Blank**

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

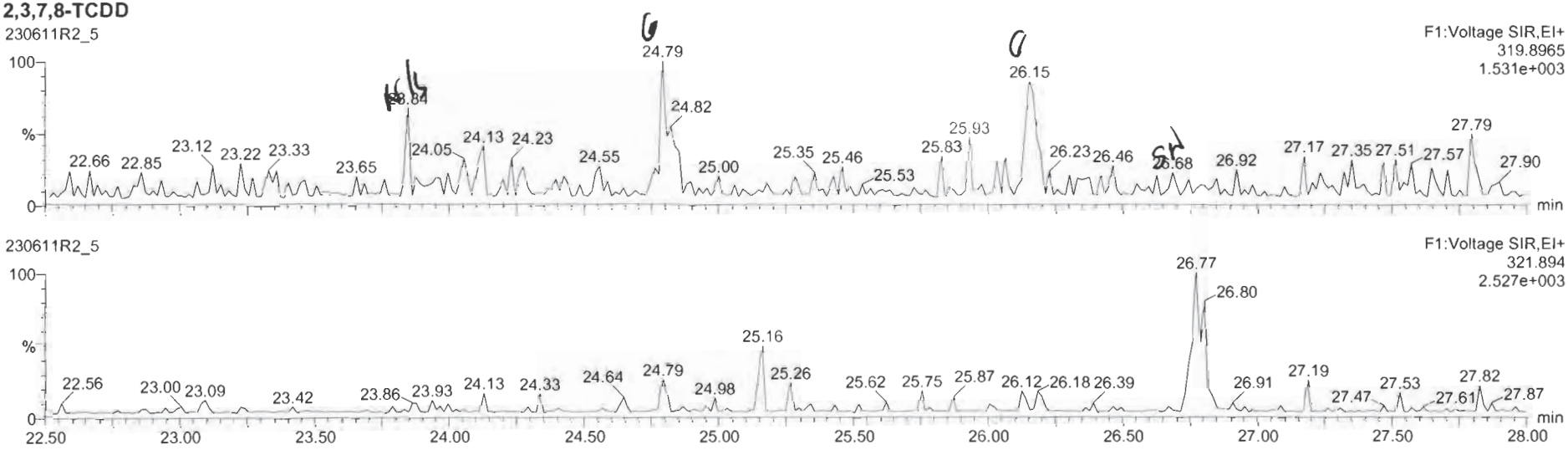
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
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Dataset: Untitled

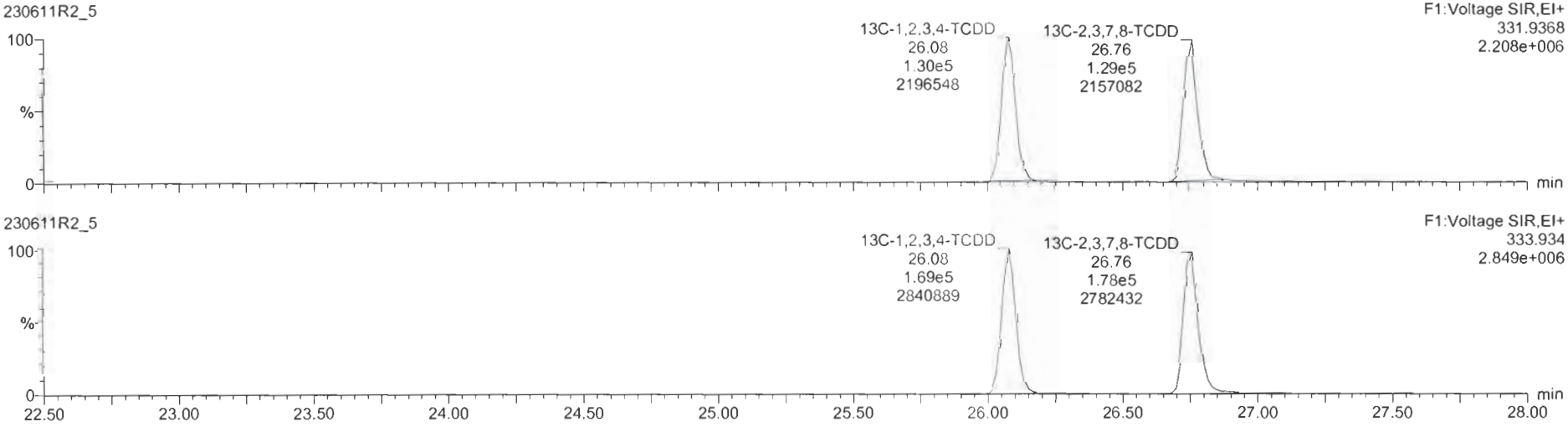
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Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD



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

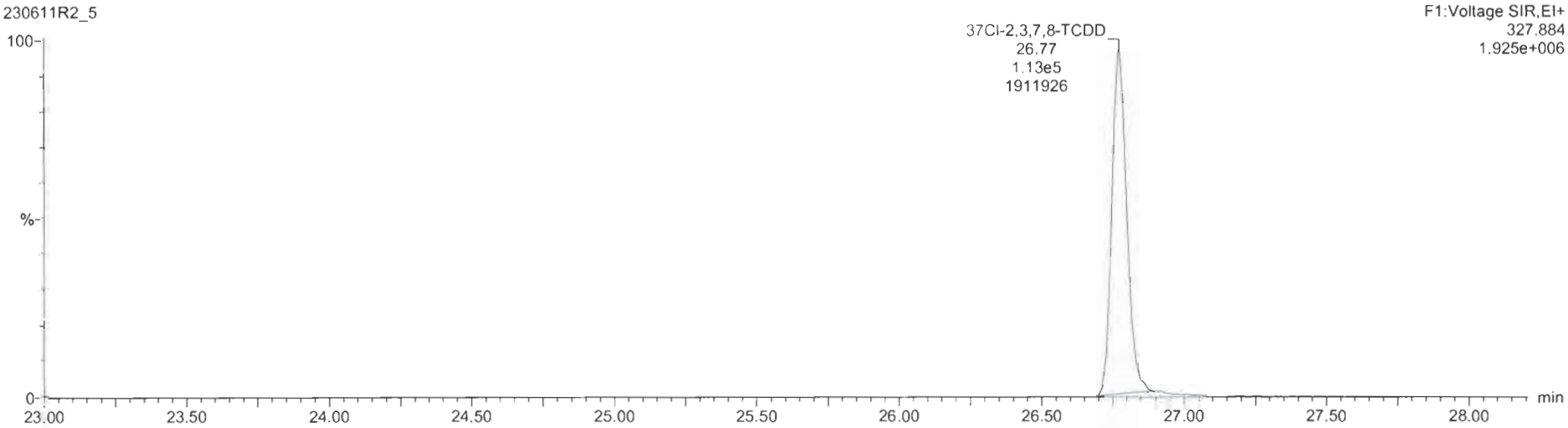


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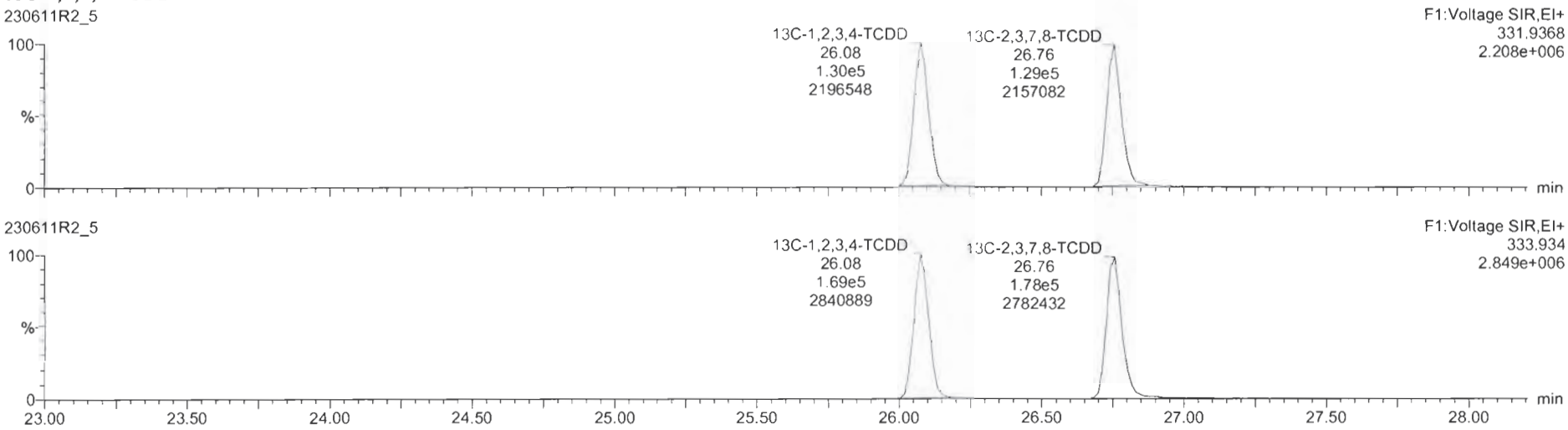
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Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

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



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

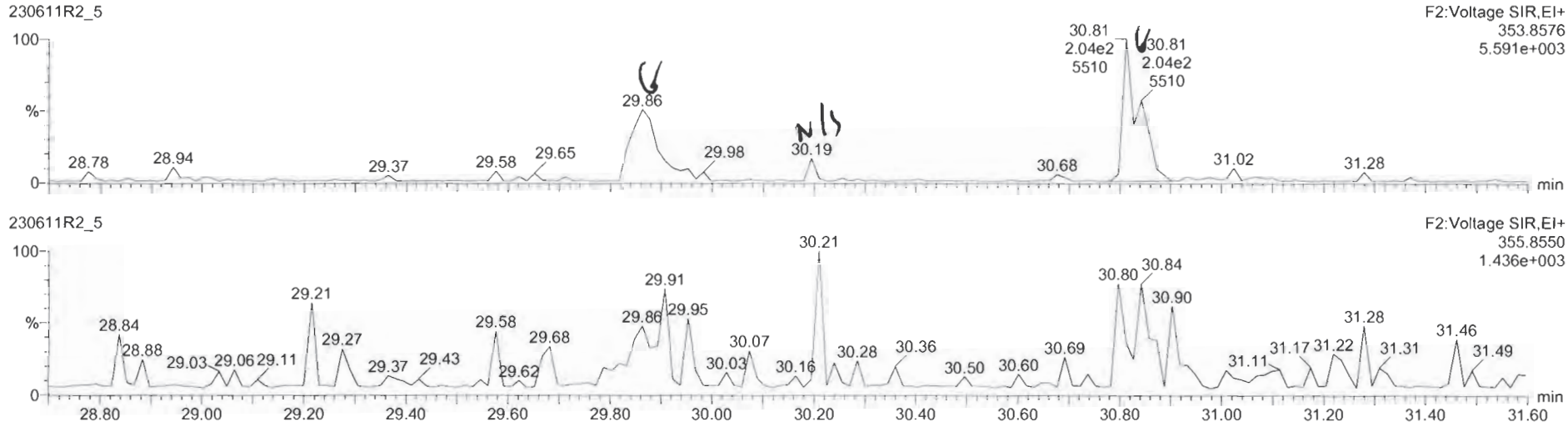


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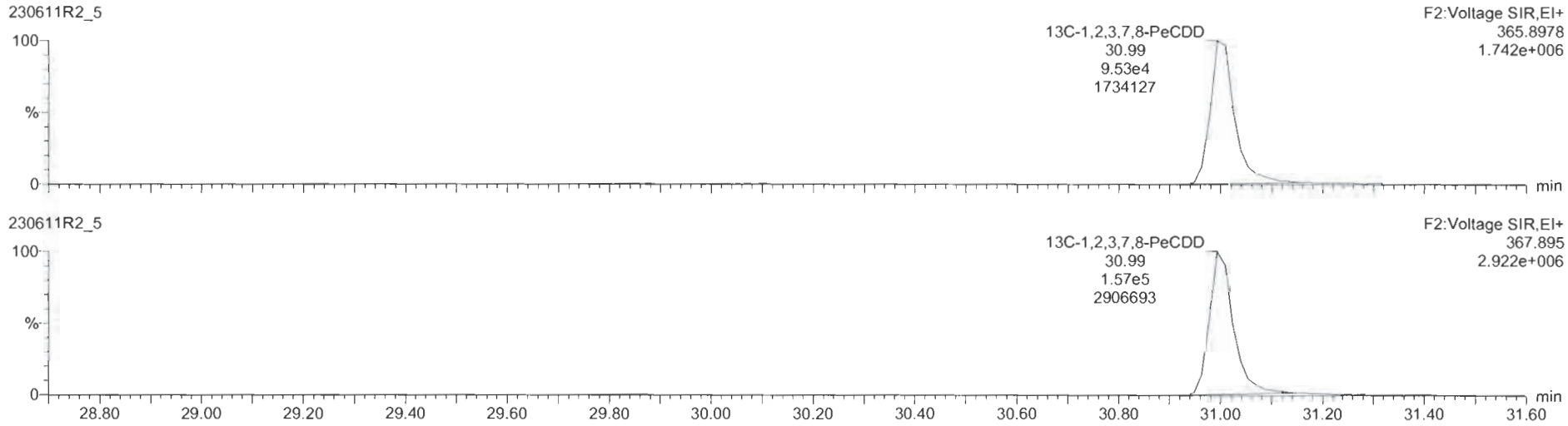
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Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD



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

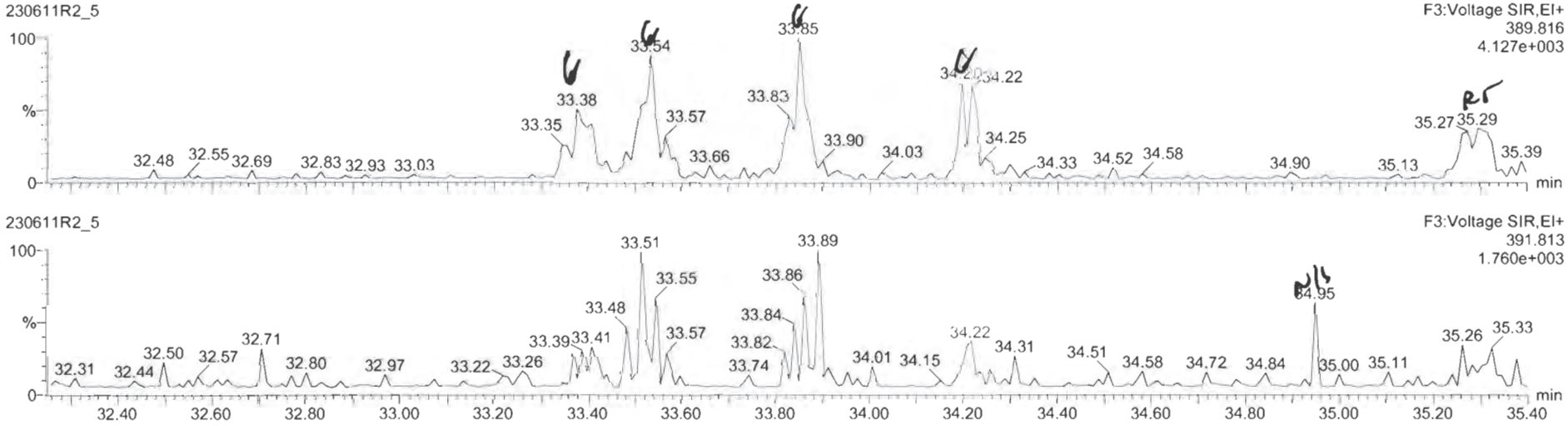


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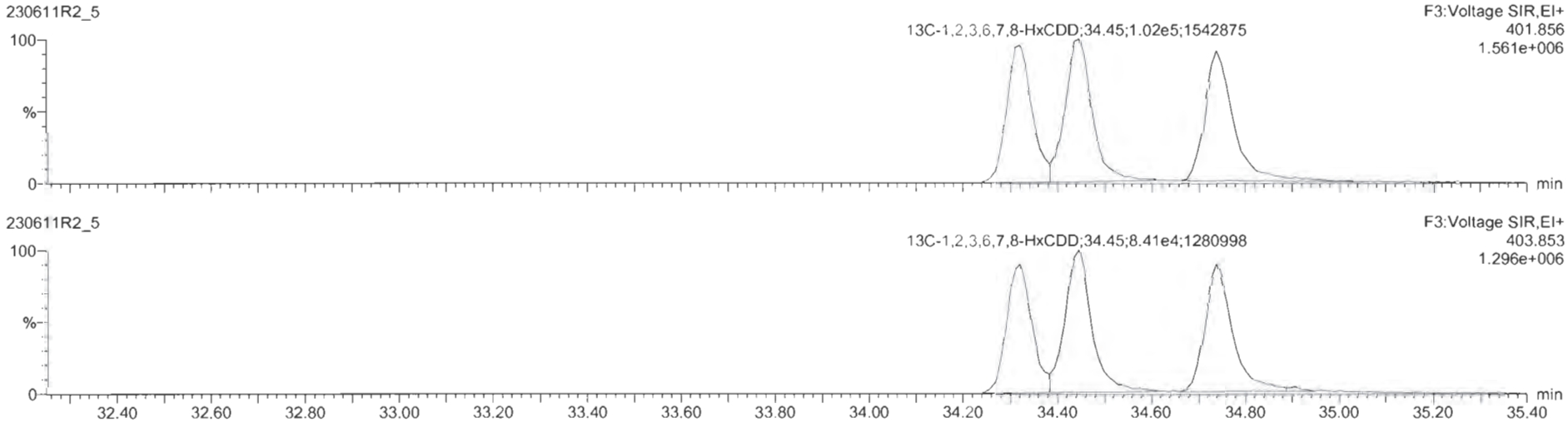
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Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

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



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

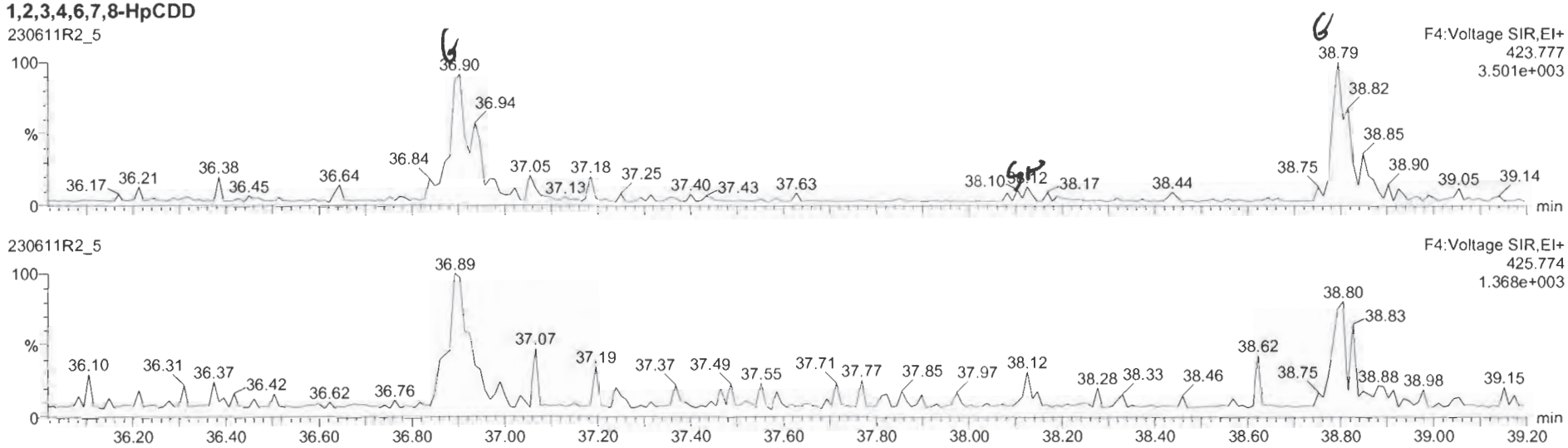


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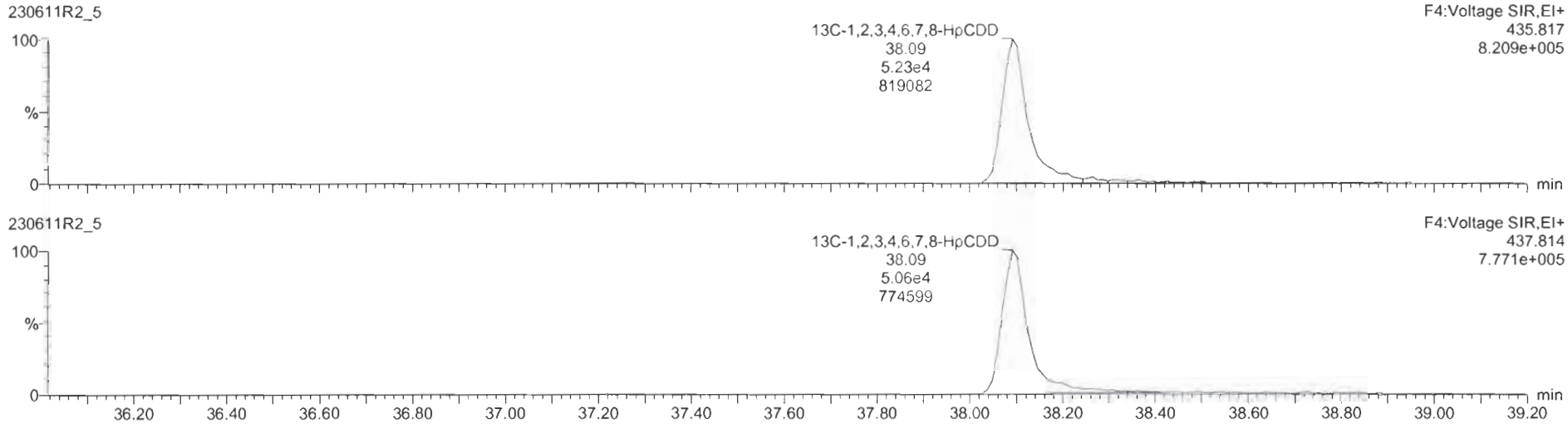
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

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



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

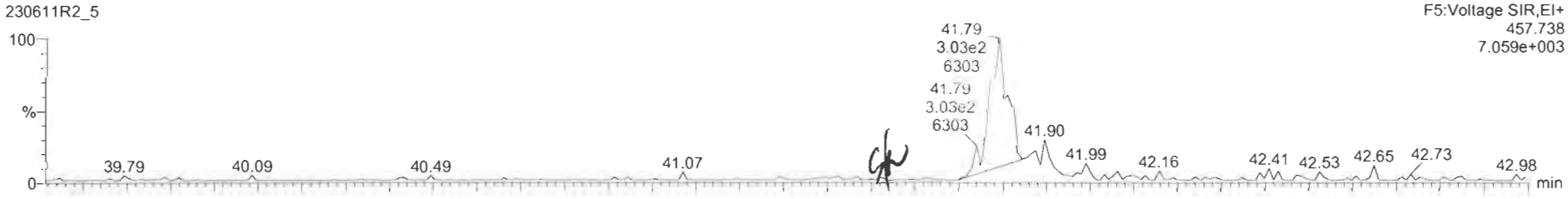


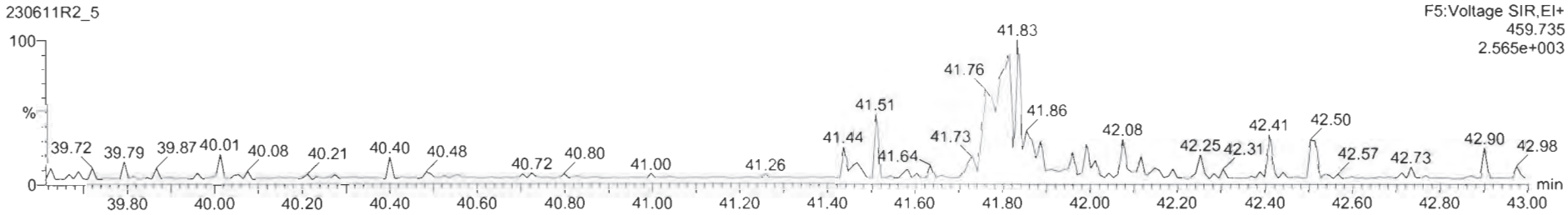
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

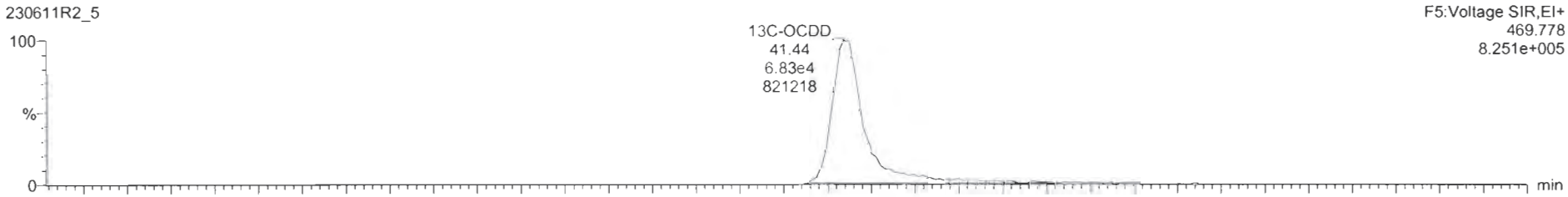
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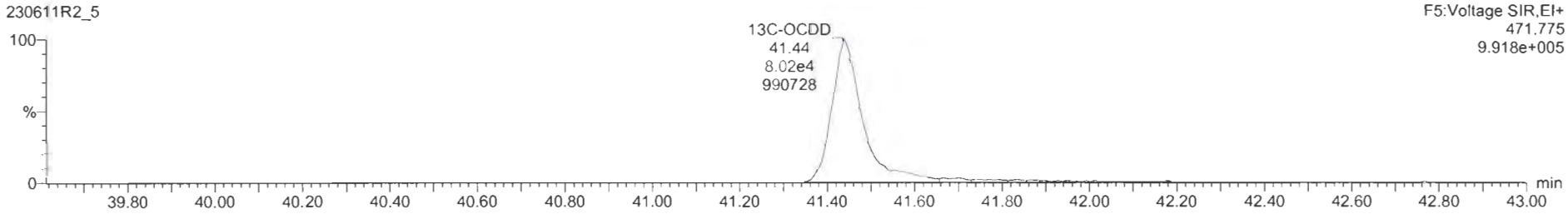
OCDD





13C-OCDD



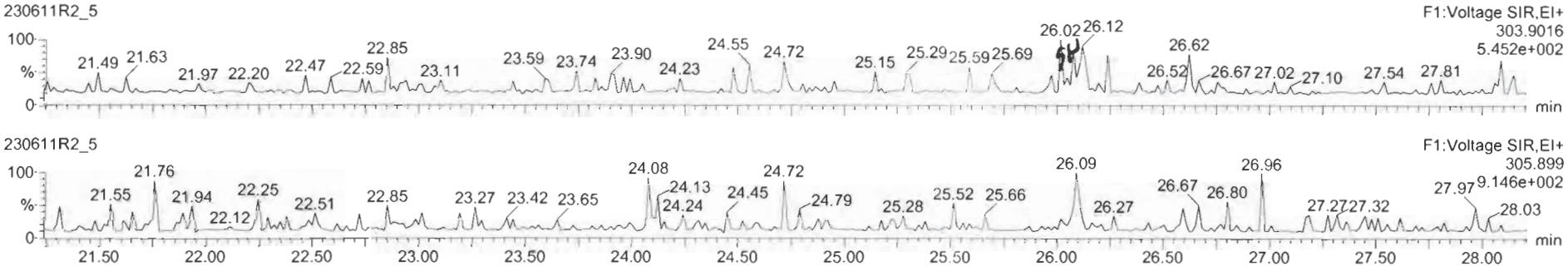


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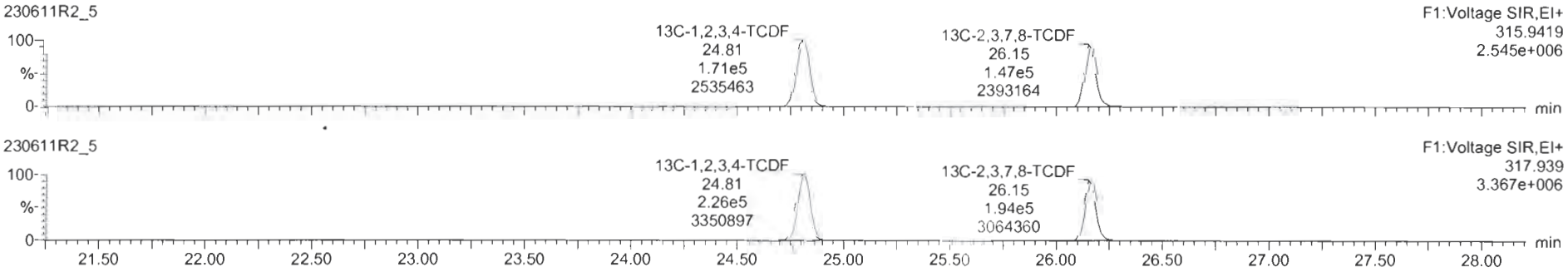
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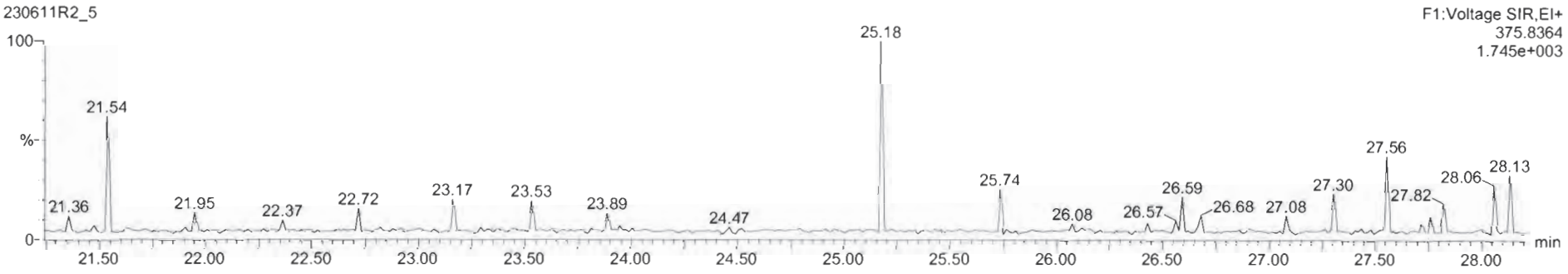
2,3,7,8-TCDF



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



DPE1

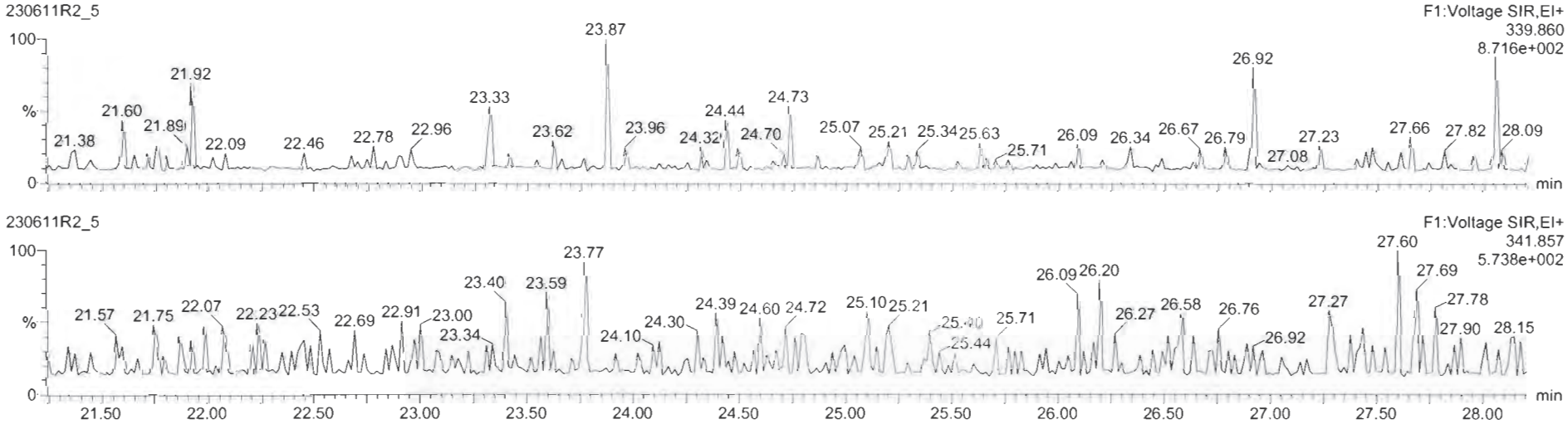


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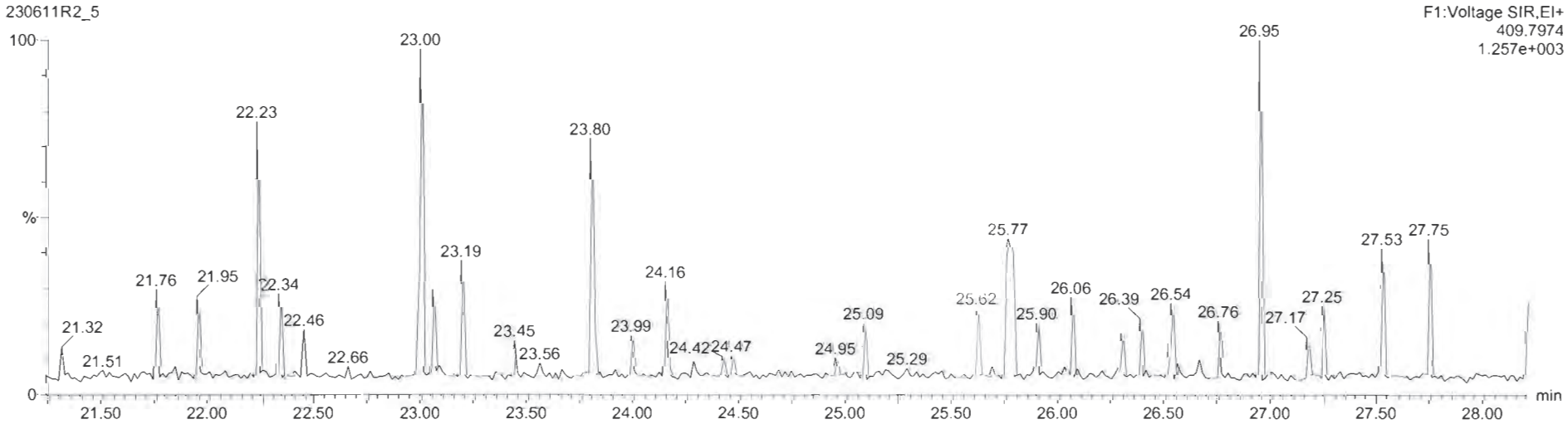
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1st Func. Penta-Furans



DPE6

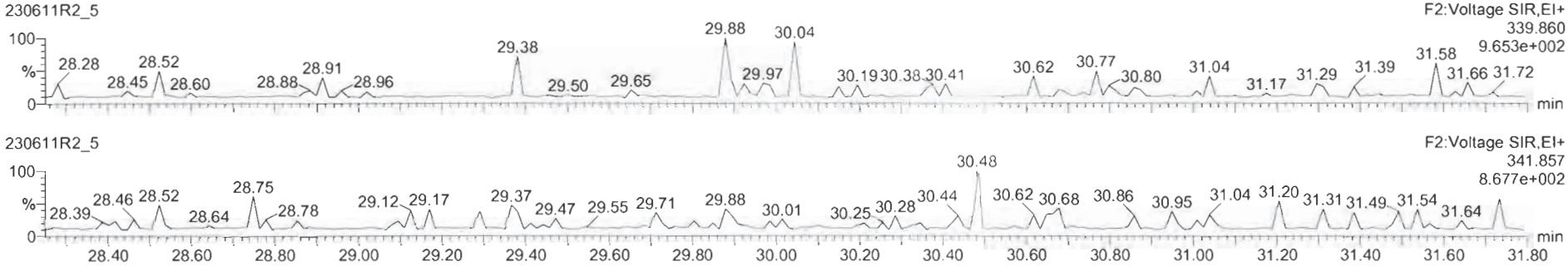


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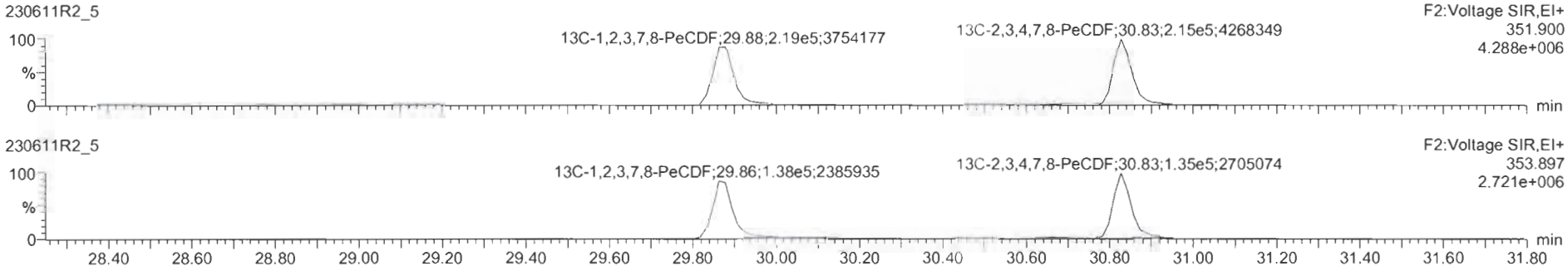
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Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

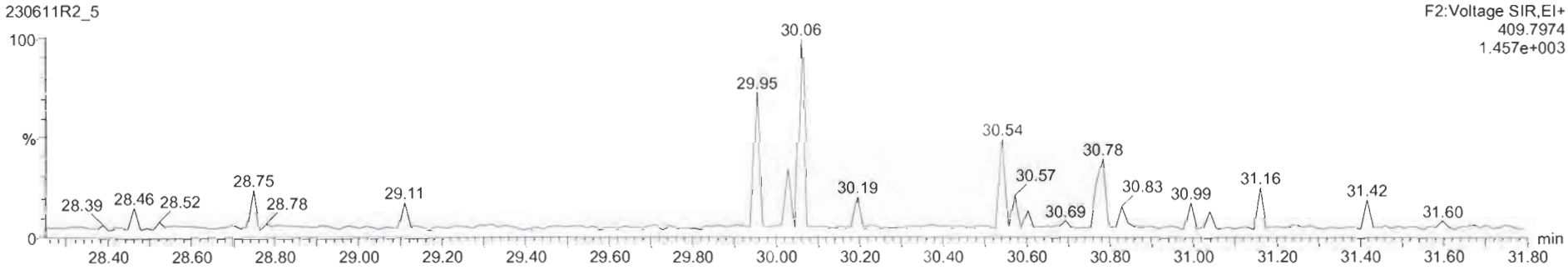
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13C-1,2,3,7,8-PeCDF



DPE2

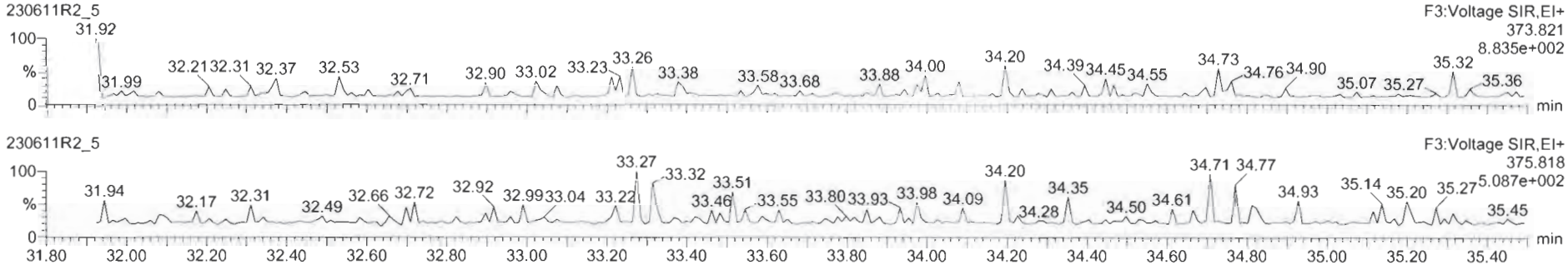


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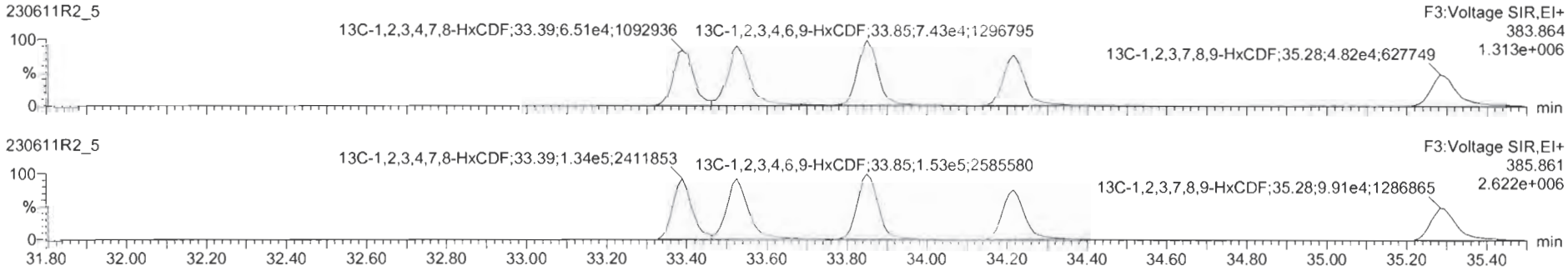
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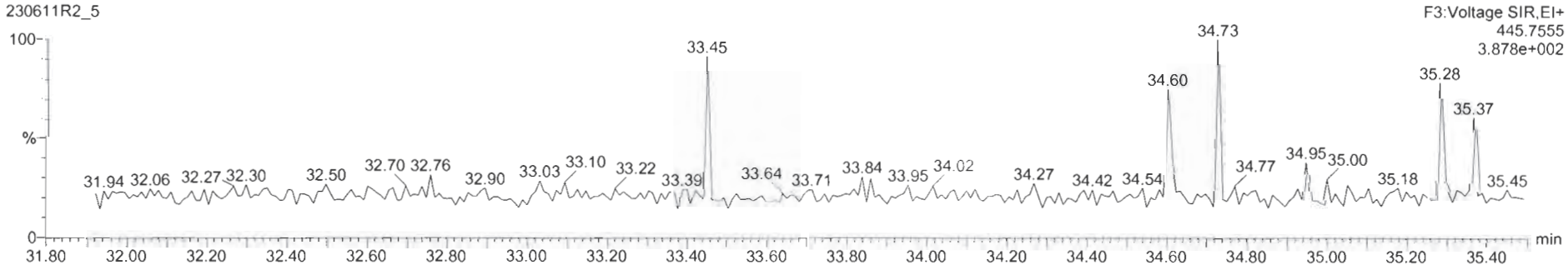
1,2,3,4,7,8-HxCDF



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



DPE3

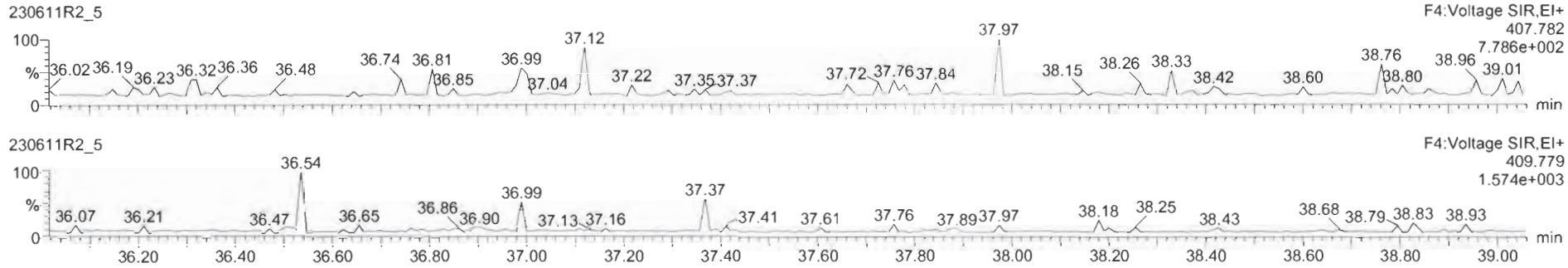


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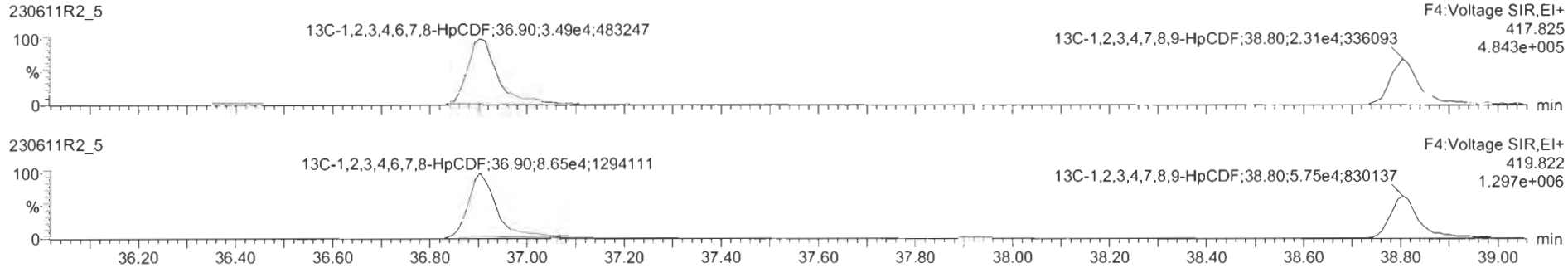
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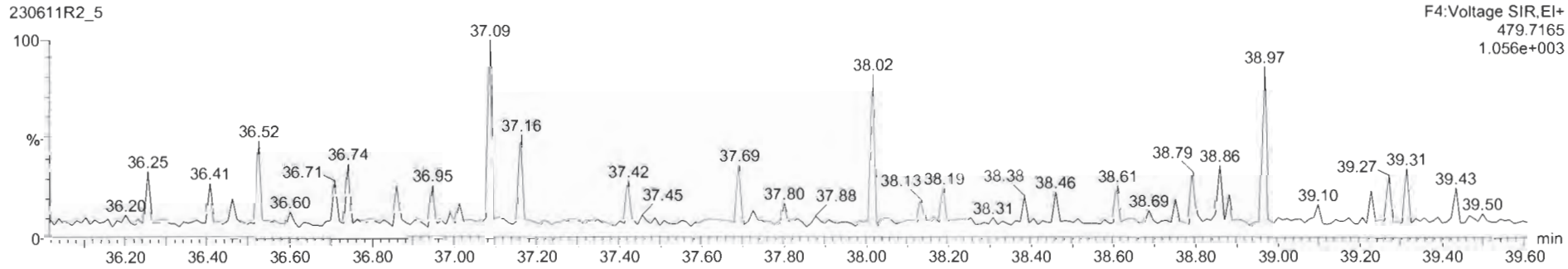
1,2,3,4,6,7,8-HpCDF



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



DPE4

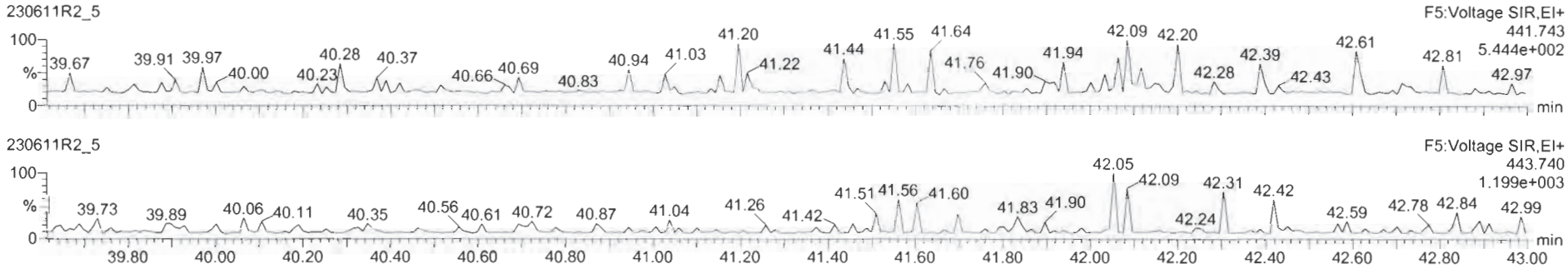


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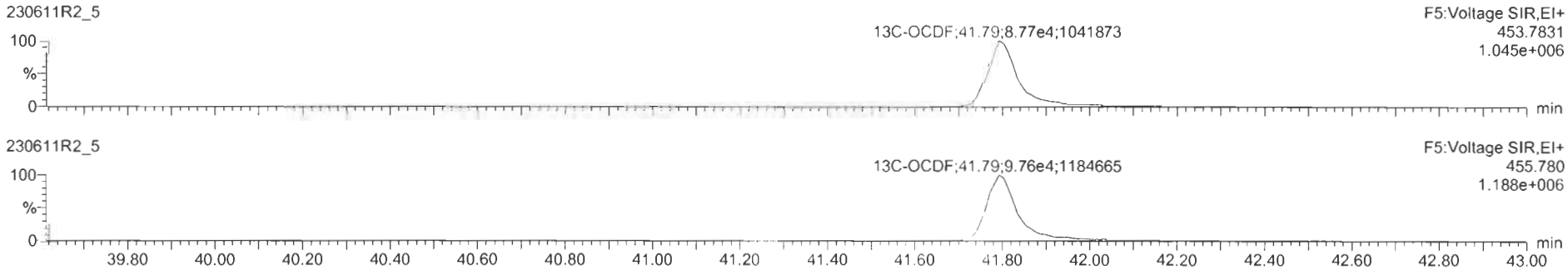
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Name: 230611R2_5, Date: 11-Jun-2023, Time: 16:01:51, ID: B23E130-BLK1 Method Blank 10, Description: Method Blank

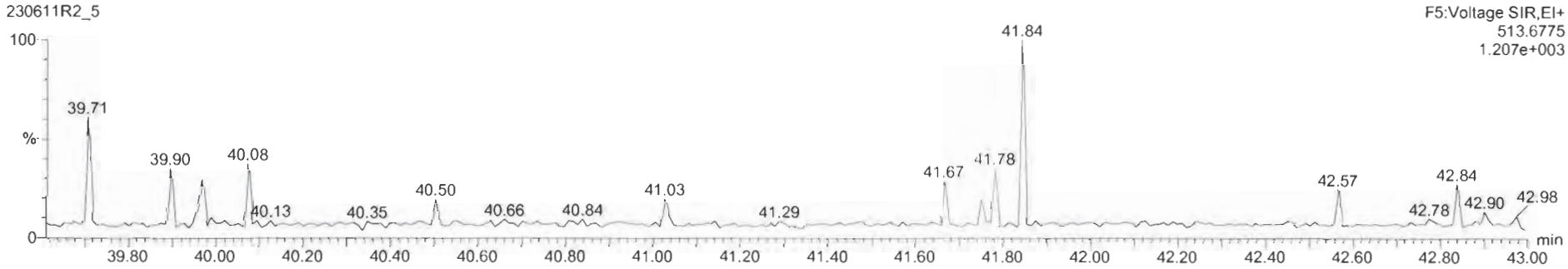
OCDF



13C-OCDF



DPE5

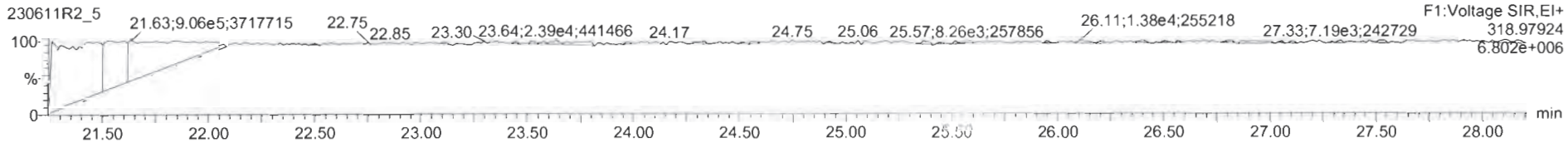


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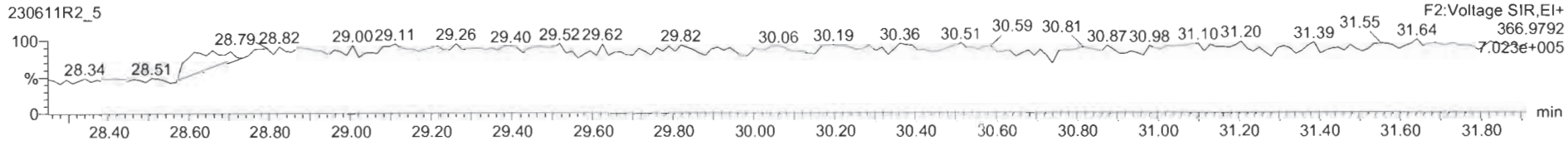
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

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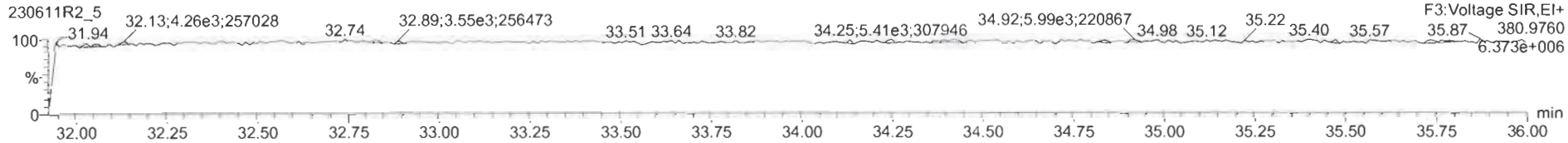
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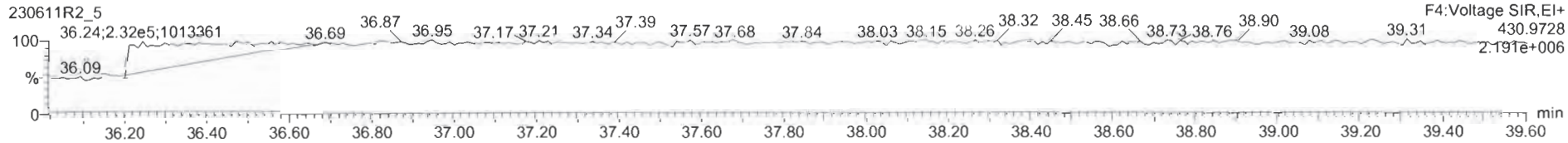
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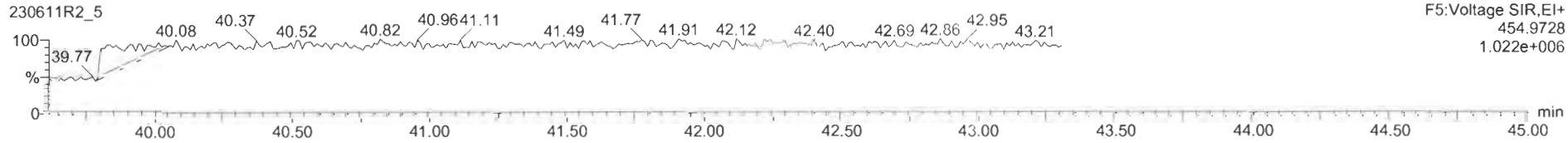
PFK3



PFK4



PFK5



Vista Analytical Laboratory

Dataset: I:\VG12.PRO\Results\230610R2\230610R2-4.qld

Last Altered: Monday, June 12, 2023 2:27:31 PM Pacific Daylight Time
Printed: Monday, June 12, 2023 2:31:03 PM Pacific Daylight Time

JAG 06/14/23
Chuy 06-12-2023

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Name: 230610R2_4, Date: 10-Jun-2023, Time: 14:56:41, ID: B23E130-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	3.63e4	0.75	NO	0.906	10.000	26.745	26.73	1.001	1.001	19.428		0.0538	19.4
2	2 1,2,3,7,8-PeCDD	1.27e5	0.59	NO	0.745	10.000	30.982	30.98	1.001	1.000	108.21		0.184	108
3	3 1,2,3,4,7,8-HxCDD	9.48e4	1.28	NO	0.837	10.000	34.289	34.30	1.000	1.001	96.022		0.260	96.0
4	4 1,2,3,6,7,8-HxCDD	9.09e4	1.24	NO	0.782	10.000	34.425	34.42	1.001	1.001	97.423		0.284	97.4
5	5 1,2,3,7,8,9-HxCDD	9.48e4	1.28	NO	0.780	10.000	34.718	34.72	1.001	1.001	98.658		0.288	98.7
6	6 1,2,3,4,6,7,8-HpCDD	7.06e4	1.05	NO	0.903	10.000	38.070	38.08	1.000	1.001	97.856		0.403	97.9
7	7 OCDD	1.00e5	0.88	NO	0.782	10.000	41.426	41.43	1.000	1.001	192.49		0.540	192
8	8 2,3,7,8-TCDF	3.83e4	0.75	NO	0.852	10.000	26.117	26.14	1.000	1.001	19.158		0.0698	19.2
9	9 1,2,3,7,8-PeCDF	1.70e5	1.59	NO	0.758	10.000	29.853	29.85	1.001	1.001	102.70		0.282	103
10	10 2,3,4,7,8-PeCDF	1.89e5	1.57	NO	0.834	10.000	30.819	30.80	1.001	1.000	102.95		0.248	103
11	11 1,2,3,4,7,8-HxCDF	1.18e5	1.20	NO	0.762	10.000	33.357	33.37	1.000	1.001	115.79		0.376	116
12	12 1,2,3,6,7,8-HxCDF	1.16e5	1.17	NO	0.726	10.000	33.513	33.50	1.001	1.000	112.24		0.384	112
13	13 2,3,4,6,7,8-HxCDF	1.11e5	1.19	NO	0.756	10.000	34.195	34.19	1.001	1.001	111.98		0.410	112
14	14 1,2,3,7,8,9-HxCDF	8.92e4	1.18	NO	0.749	10.000	35.263	35.26	1.000	1.000	110.68		0.600	111
15	15 1,2,3,4,6,7,8-HpCDF	7.39e4	0.96	NO	0.754	10.000	36.888	36.88	1.000	1.000	106.22		0.489	106
16	16 1,2,3,4,7,8,9-HpCDF	5.91e4	0.99	NO	0.792	10.000	38.784	38.78	1.000	1.000	111.64		0.658	112
17	17 OCDF	1.26e5	0.83	NO	0.669	10.000	41.769	41.78	1.000	1.001	225.60		0.498	226
18	18 13C-2,3,7,8-TCDD	4.12e5	0.77	NO	1.13	10.000	26.702	26.71	1.026	1.026	193.35	96.7	0.252	
19	19 13C-1,2,3,7,8-PeCDD	3.15e5	0.62	NO	0.869	10.000	30.656	30.96	1.178	1.189	191.17	95.6	0.218	
20	20 13C-1,2,3,4,7,8-HxCDD	2.36e5	1.27	NO	0.746	10.000	34.268	34.28	1.013	1.014	215.14	108	0.400	
21	21 13C-1,2,3,6,7,8-HxCDD	2.39e5	1.28	NO	0.803	10.000	34.420	34.40	1.018	1.017	202.23	101	0.372	
22	22 13C-1,2,3,7,8,9-HxCDD	2.46e5	1.27	NO	0.817	10.000	34.714	34.70	1.026	1.026	205.19	103	0.366	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.60e5	1.03	NO	0.611	10.000	38.055	38.06	1.125	1.125	177.78	88.9	0.677	
24	24 13C-OCDD	2.67e5	0.90	NO	0.545	10.000	41.370	41.40	1.223	1.224	332.65	83.2	0.643	
25	25 13C-2,3,7,8-TCDF	4.70e5	0.76	NO	1.07	10.000	26.111	26.11	1.003	1.003	167.44	83.7	0.243	
26	26 13C-1,2,3,7,8-PeCDF	4.37e5	1.58	NO	0.907	10.000	29.797	29.83	1.145	1.146	184.38	92.2	0.380	
27	27 13C-2,3,4,7,8-PeCDF	4.39e5	1.58	NO	0.889	10.000	30.755	30.80	1.181	1.183	188.86	94.4	0.388	
28	28 13C-1,2,3,4,7,8-HxCDF	2.68e5	0.50	NO	0.993	10.000	33.375	33.35	0.987	0.986	183.58	91.8	0.807	
29	29 13C-1,2,3,6,7,8-HxCDF	2.86e5	0.50	NO	1.05	10.000	33.497	33.49	0.990	0.990	184.41	92.2	0.762	
30	30 13C-2,3,4,6,7,8-HxCDF	2.62e5	0.49	NO	0.956	10.000	34.173	34.17	1.010	1.011	186.25	93.1	0.839	
31	31 13C-1,2,3,7,8,9-HxCDF	2.15e5	0.49	NO	0.853	10.000	35.238	35.25	1.042	1.042	171.67	85.8	0.940	

Dataset: I:\VG12.PRO\Results\230610R2\230610R2-4.qld

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Printed: Monday, June 12, 2023 2:31:03 PM Pacific Daylight Time

Name: 230610R2_4, Date: 10-Jun-2023, Time: 14:56:41, ID: B23E130-BS1 OPR 10, **Description:** OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.85e5	0.40	NO	0.721	10.000	36.855	36.87	1.090	1.090	174.21	87.1	0.640	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.34e5	0.41	NO	0.581	10.000	38.745	38.77	1.146	1.146	156.36	78.2	0.795	
34	34 13C-OCDF	3.35e5	0.88	NO	0.718	10.000	41.758	41.76	1.235	1.235	317.34	79.3	0.579	
35	35 37Cl-2,3,7,8-TCDD	1.56e5			0.980	10.000	26.712	26.73	1.026	1.027	83.789	105	0.0538	
36	36 13C-1,2,3,4-TCDD	3.79e5	0.77	NO	1.00	10.000	26.110	26.03	1.000	1.000	200.00	100	0.283	
37	37 13C-1,2,3,4-TCDF	5.23e5	0.77	NO	1.00	10.000	24.810	24.76	1.000	1.000	200.00	100	0.261	
38	38 13C-1,2,3,4,6,9-HxCDF	2.94e5	0.50	NO	1.00	10.000	33.840	33.82	1.000	1.000	200.00	100	0.802	

Enthalpy Analytical EDH VG-12

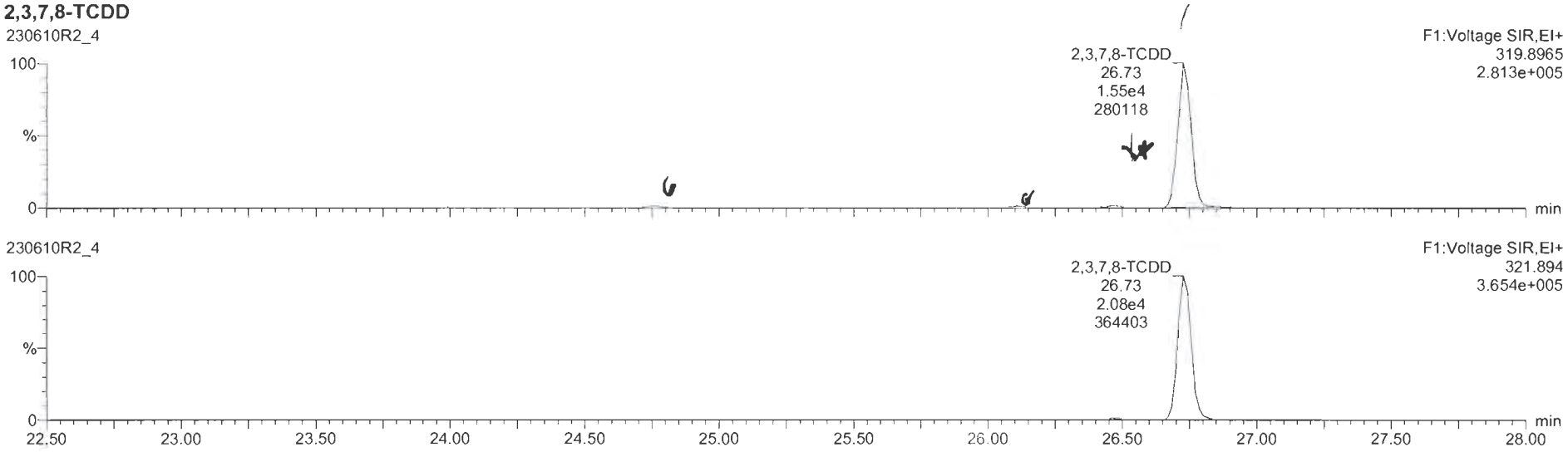
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Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

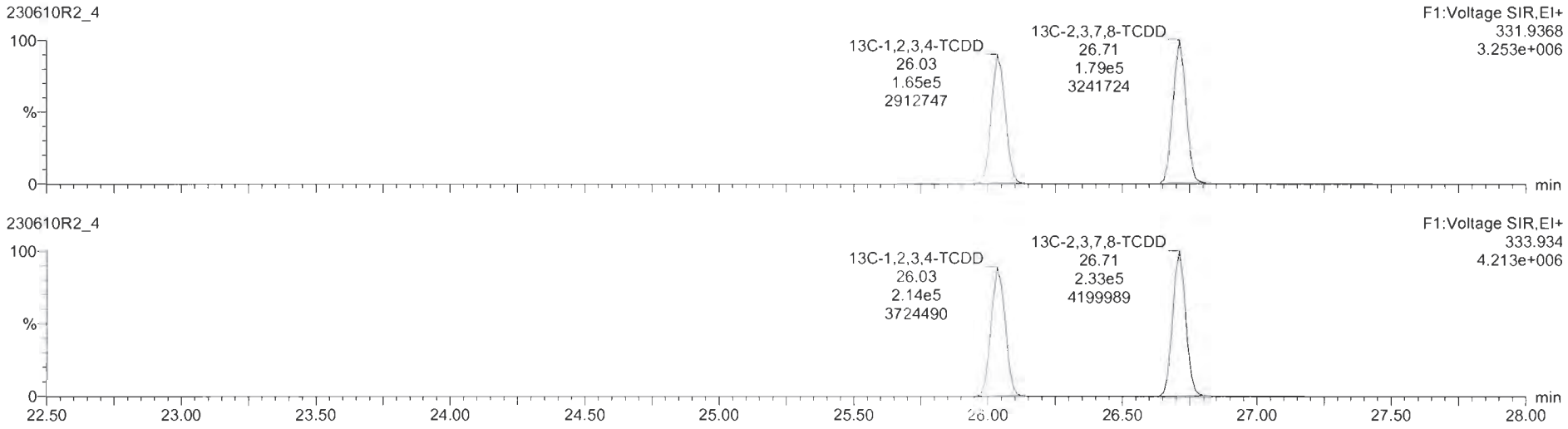
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Name: 230610R2_4, Date: 10-Jun-2023, Time: 14:56:41, ID: B23E130-BS1 OPR 10, Description: OPR

2,3,7,8-TCDD



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

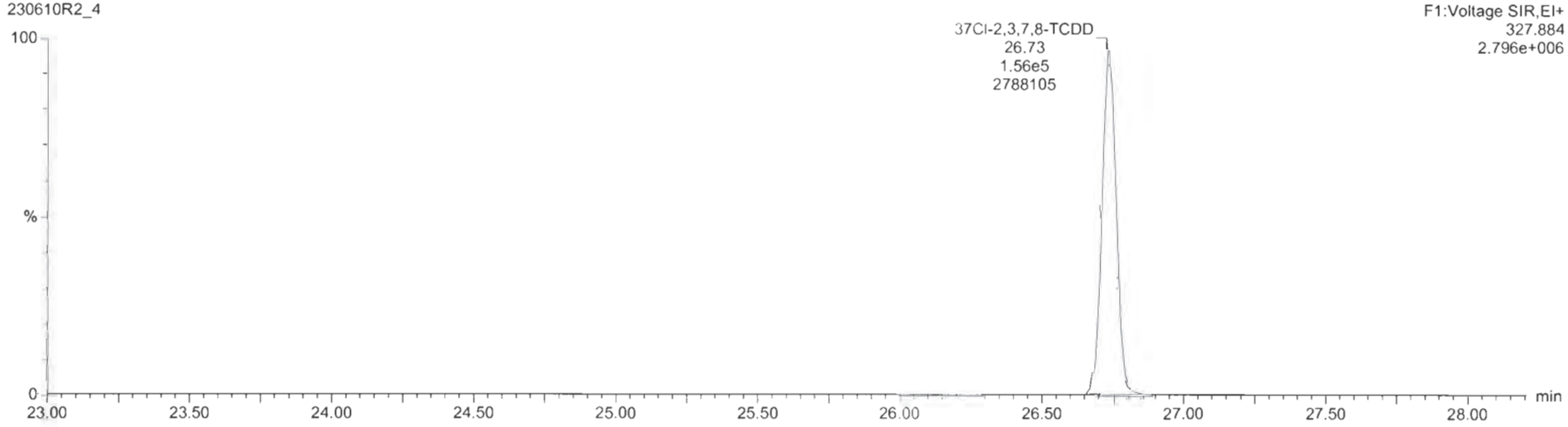


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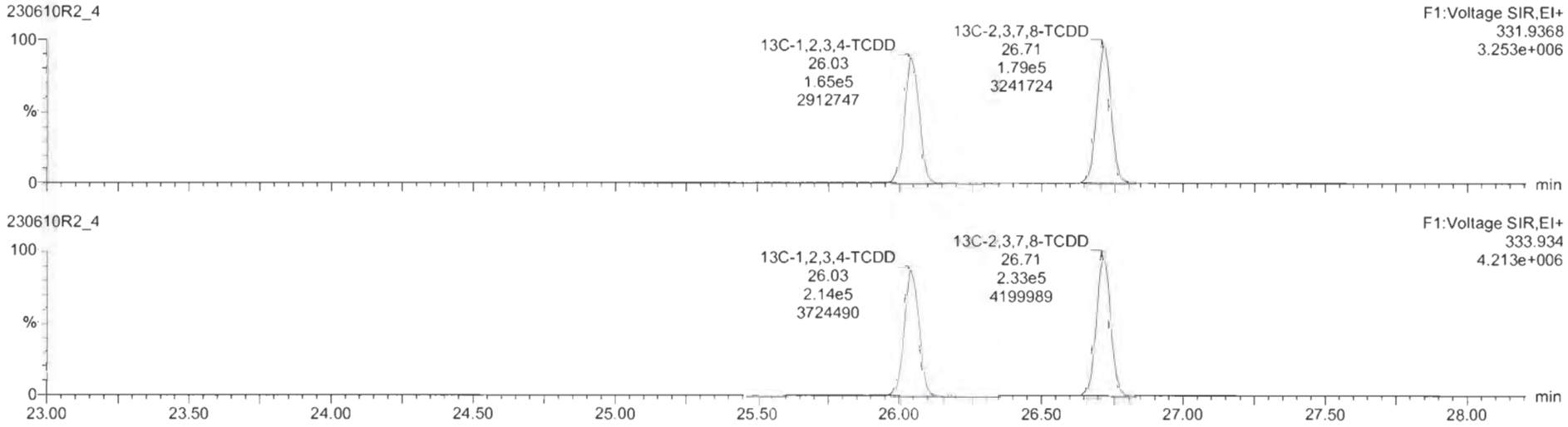
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Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

Name: 230610R2_4, Date: 10-Jun-2023, Time: 14:56:41, ID: B23E130-BS1 OPR 10, Description: OPR

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



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

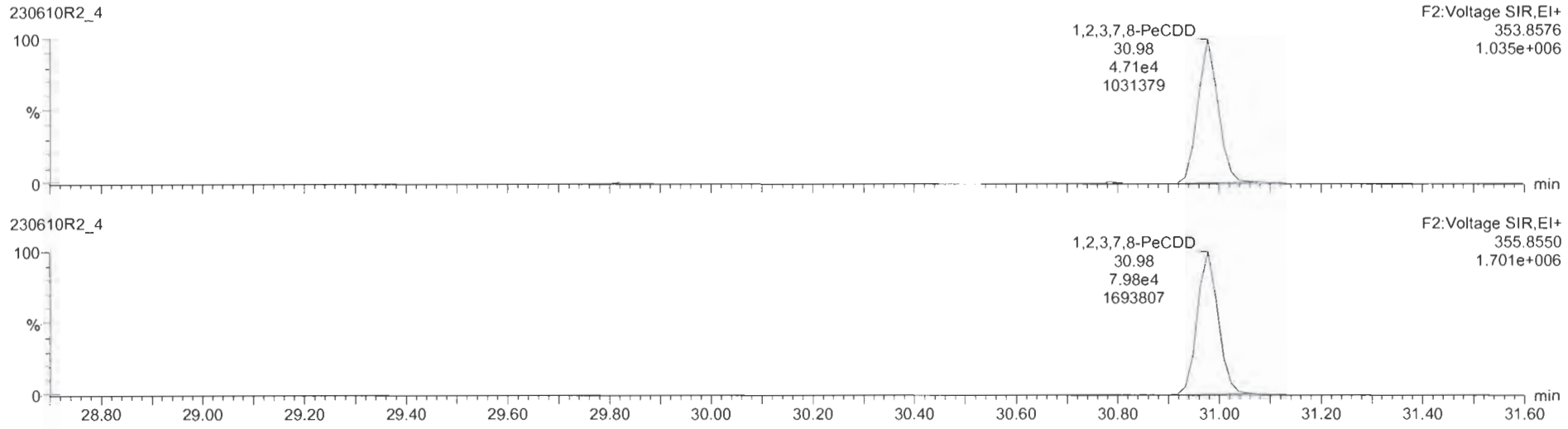


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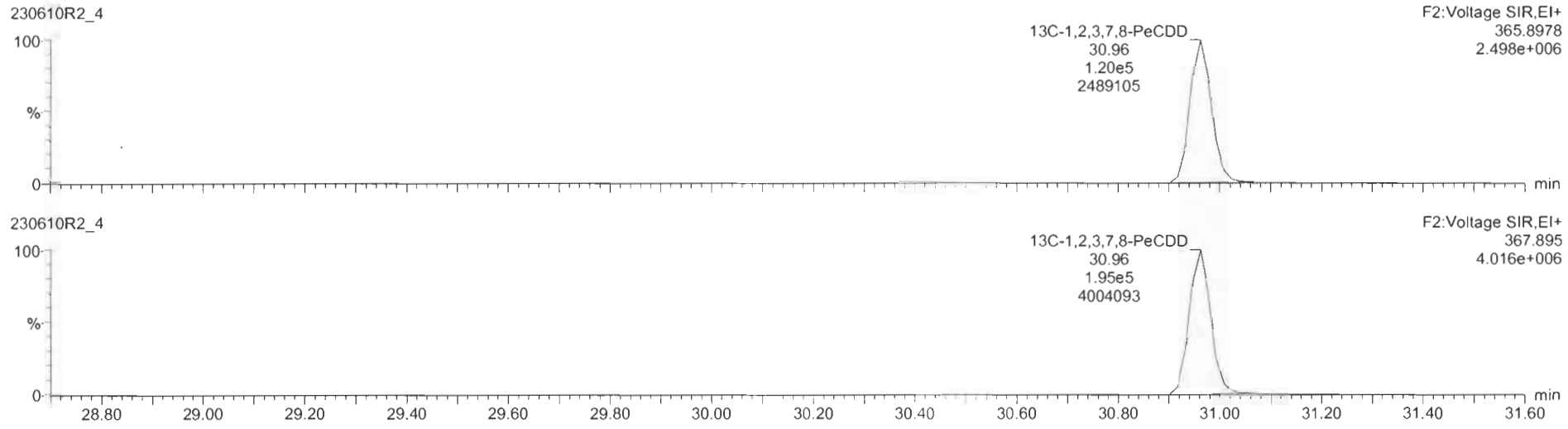
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Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

Name: 230610R2_4, Date: 10-Jun-2023, Time: 14:56:41, ID: B23E130-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDD



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

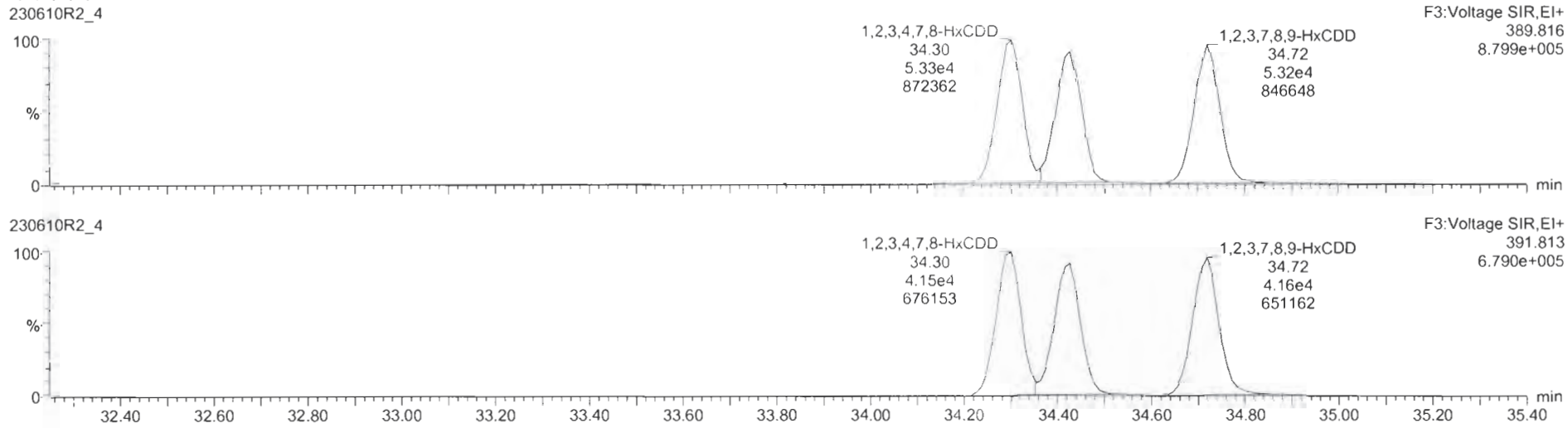


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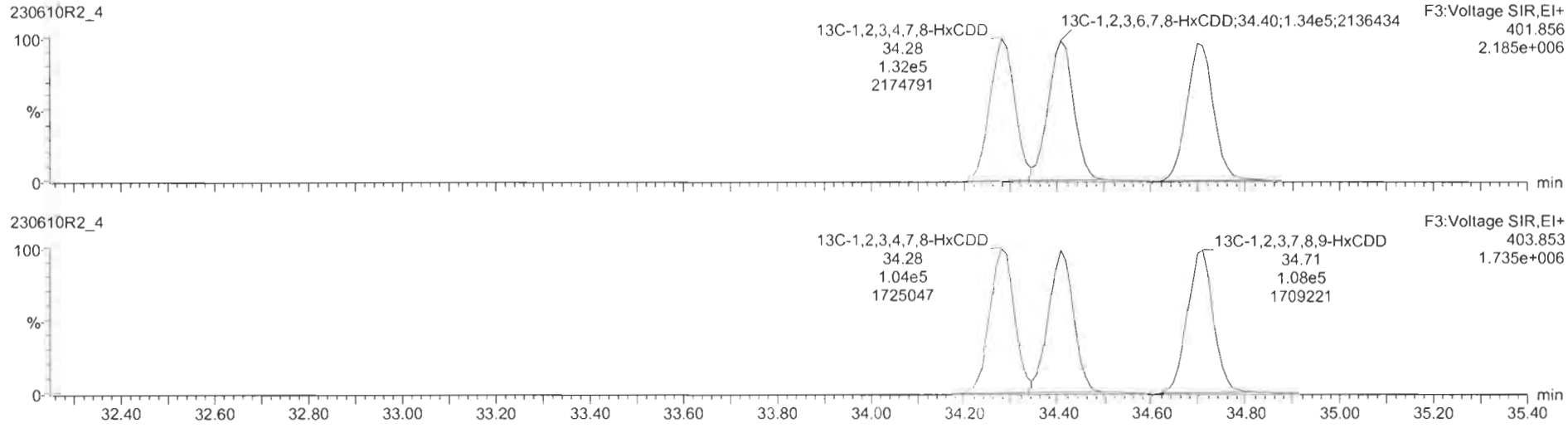
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Name: 230610R2_4, Date: 10-Jun-2023, Time: 14:56:41, ID: B23E130-BS1 OPR 10, Description: OPR

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



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

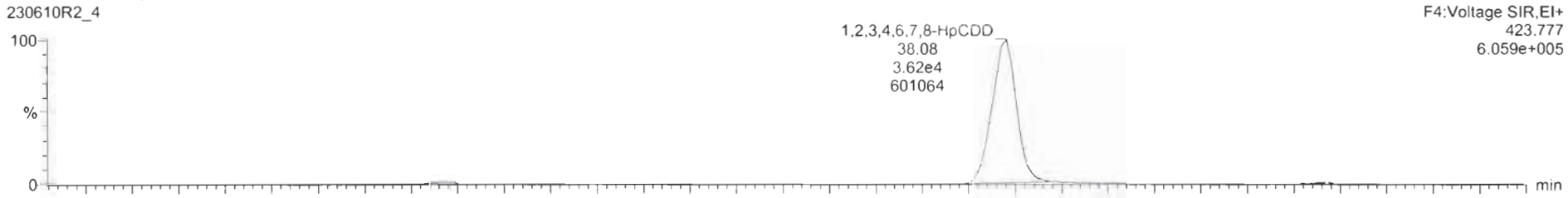


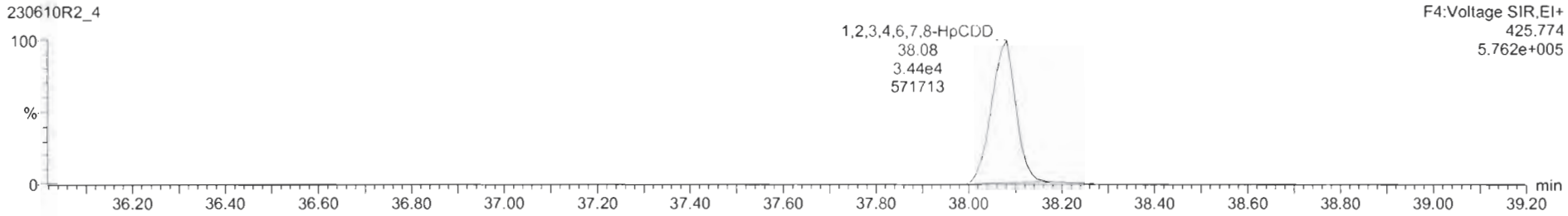
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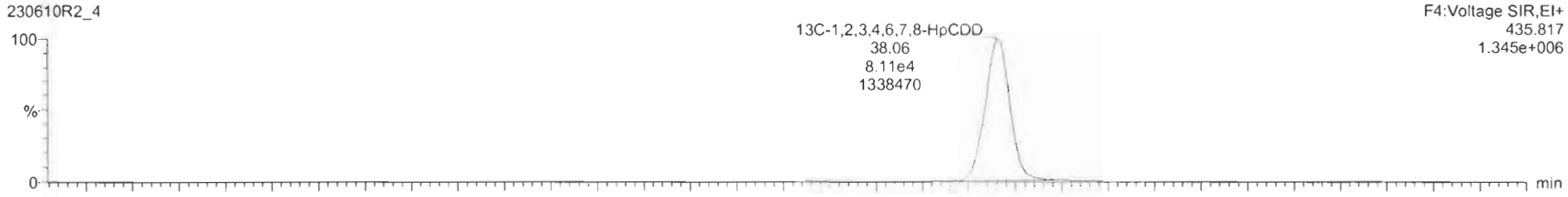
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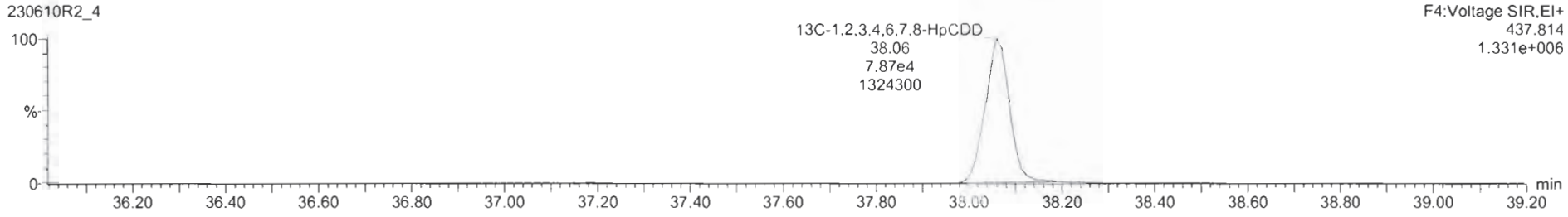
1,2,3,4,6,7,8-HpCDD





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



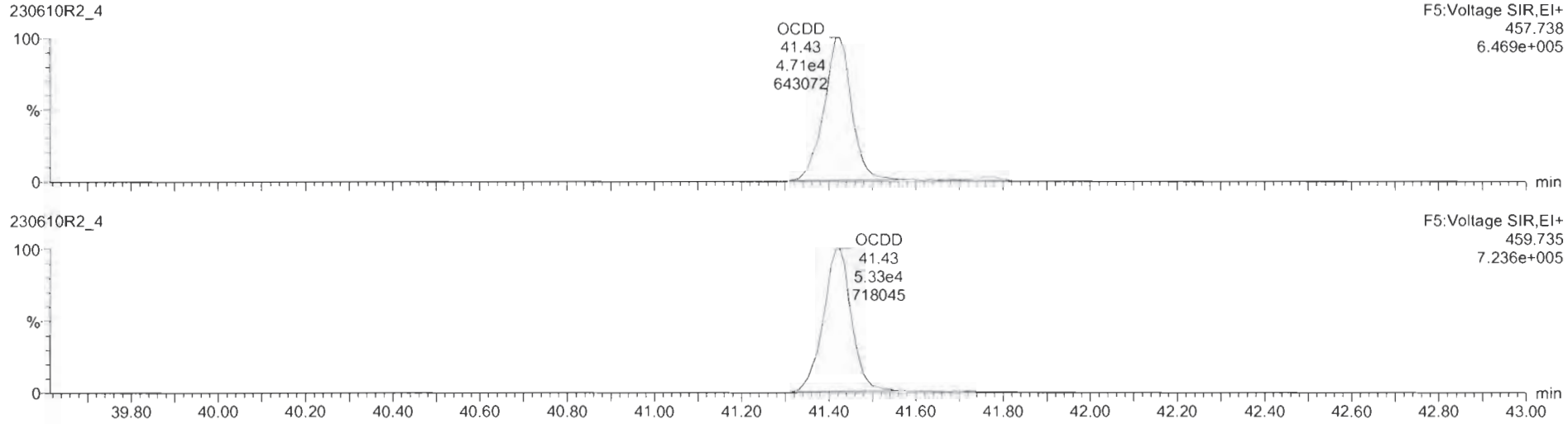


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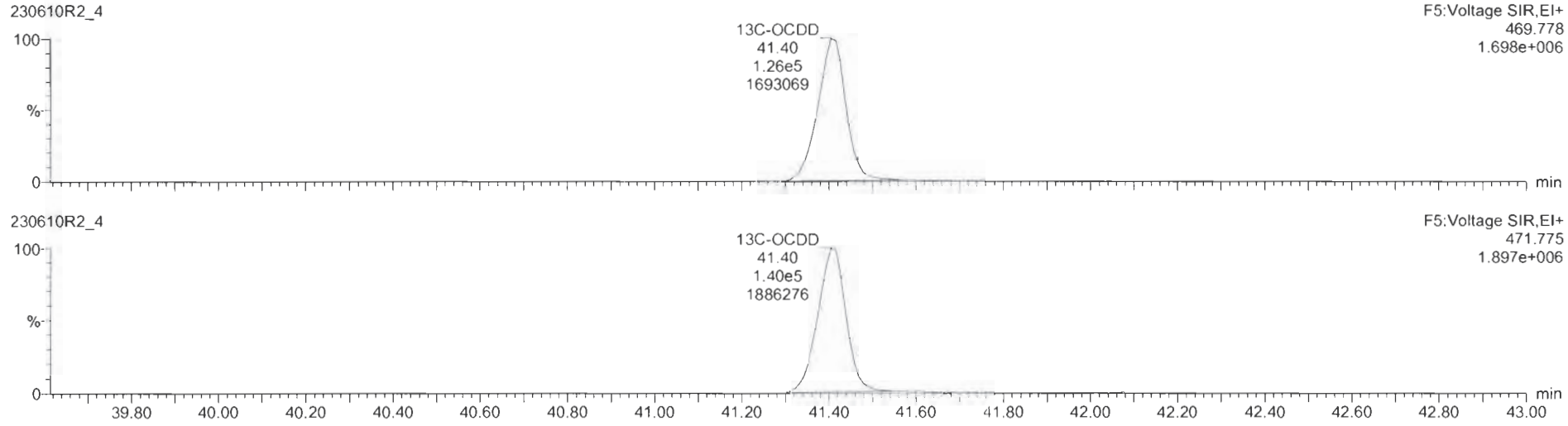
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Name: 230610R2_4, Date: 10-Jun-2023, Time: 14:56:41, ID: B23E130-BS1 OPR 10, Description: OPR

OCDD



13C-OCDD

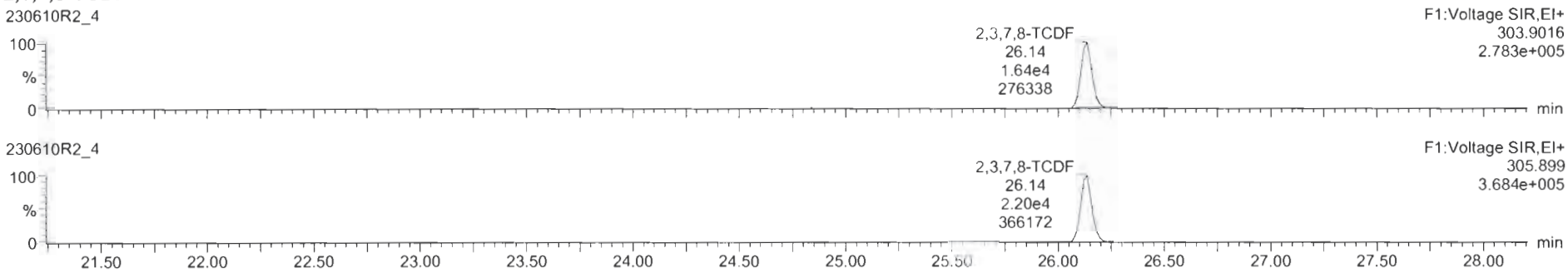


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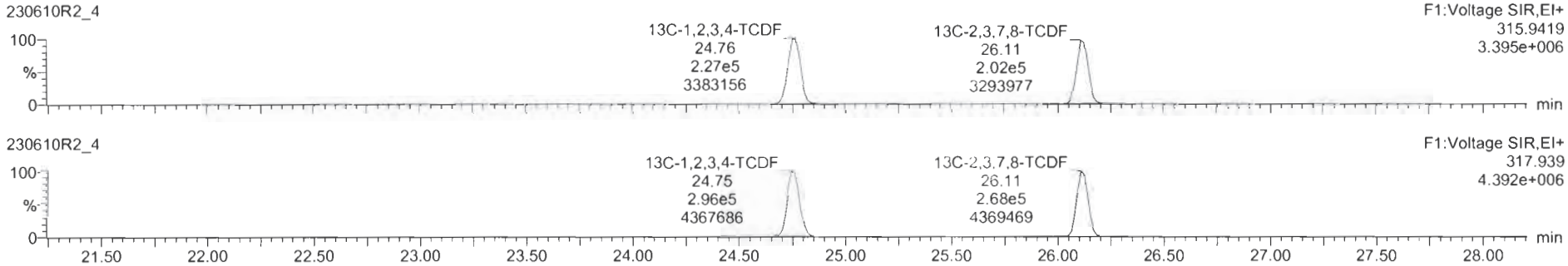
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Name: 230610R2_4, Date: 10-Jun-2023, Time: 14:56:41, ID: B23E130-BS1 OPR 10, Description: OPR

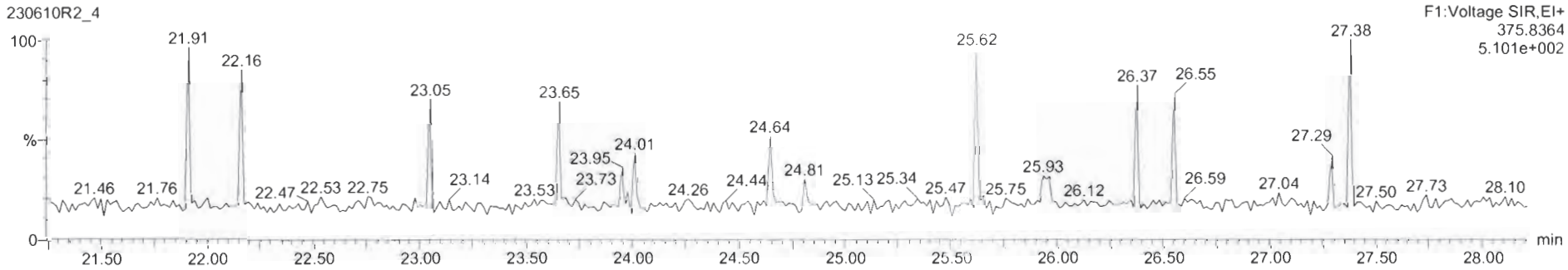
2,3,7,8-TCDF



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



DPE1

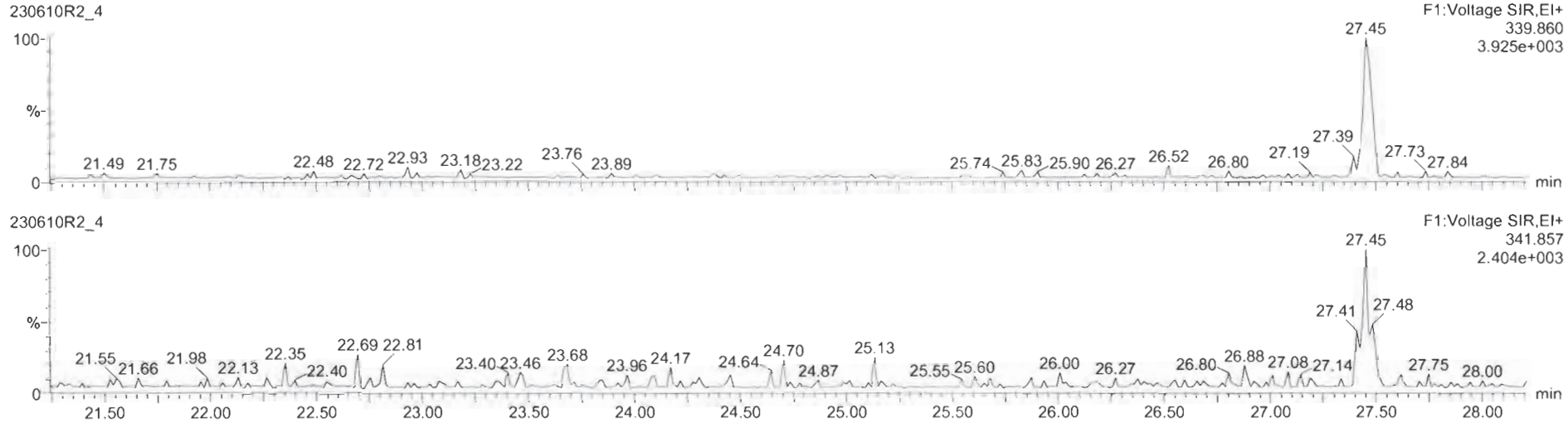


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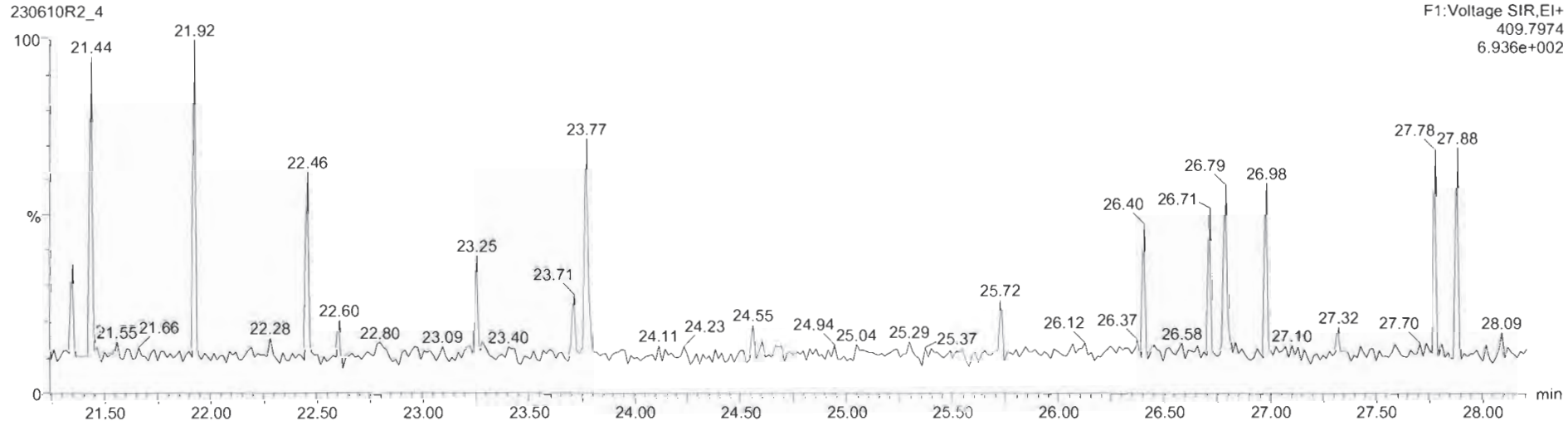
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Name: 230610R2_4, Date: 10-Jun-2023, Time: 14:56:41, ID: B23E130-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans



DPE6

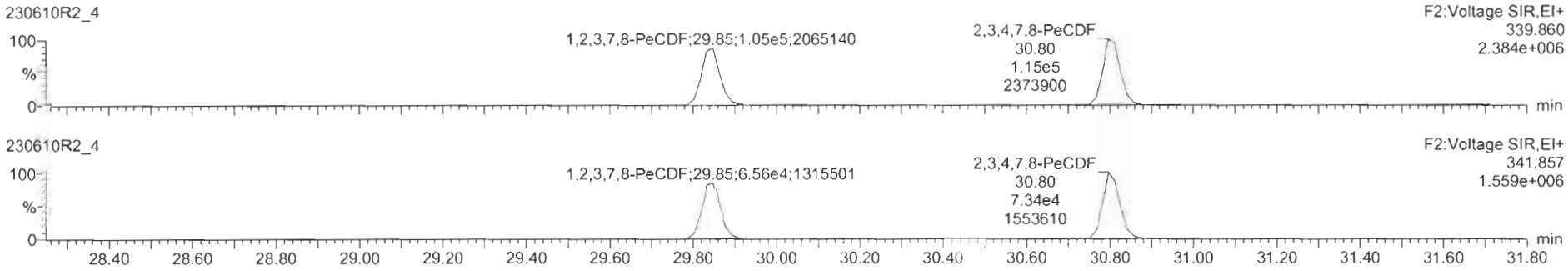


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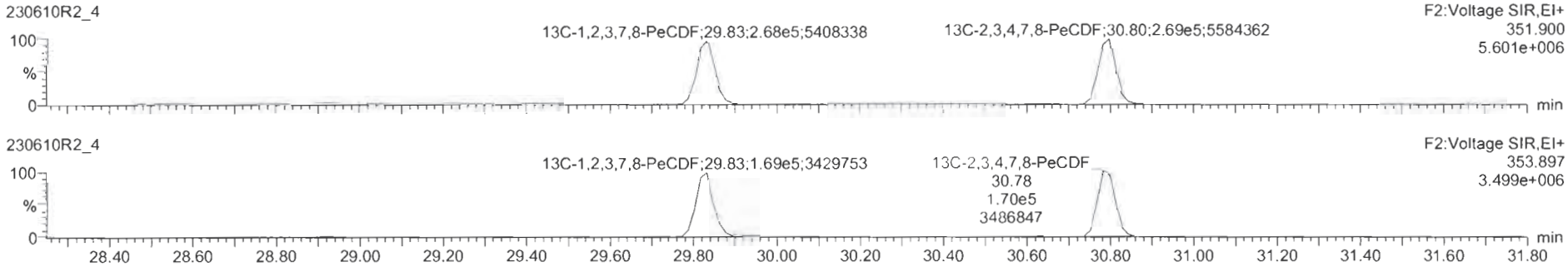
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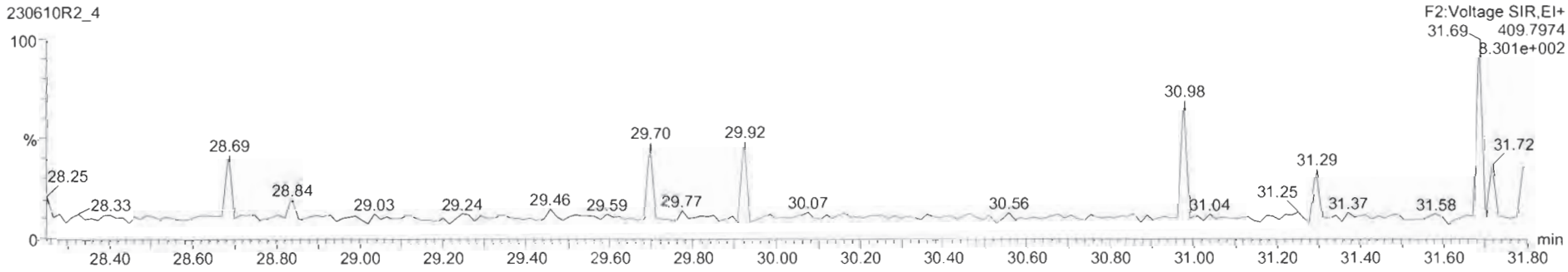
1,2,3,7,8-PeCDF



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



DPE2

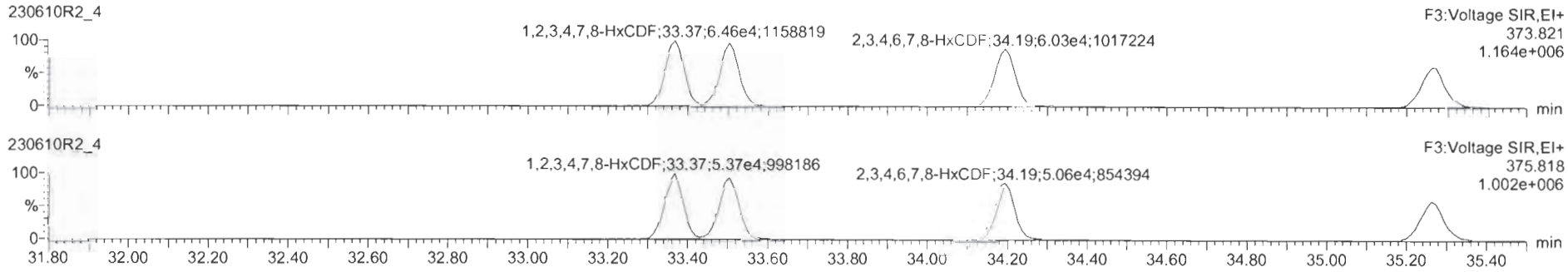


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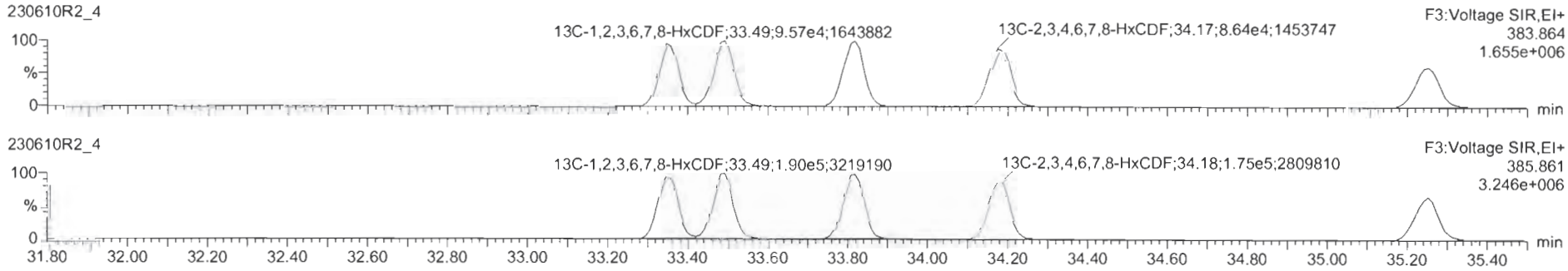
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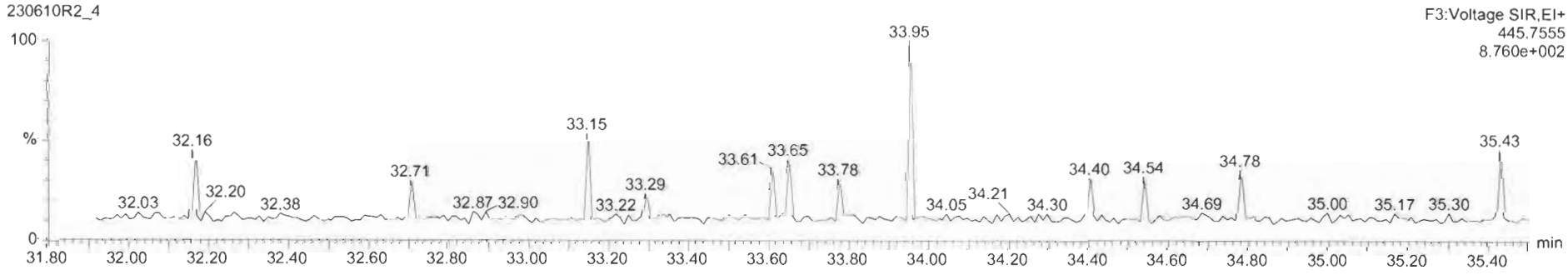
1,2,3,4,7,8-HxCDF



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



DPE3

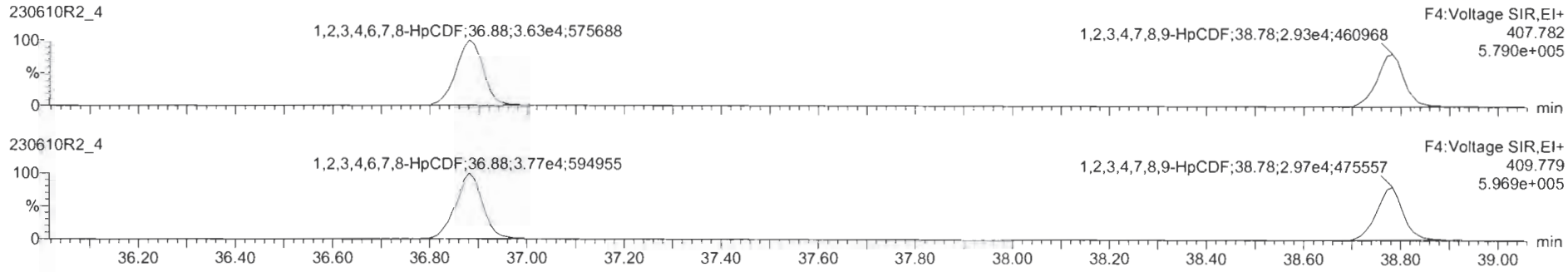


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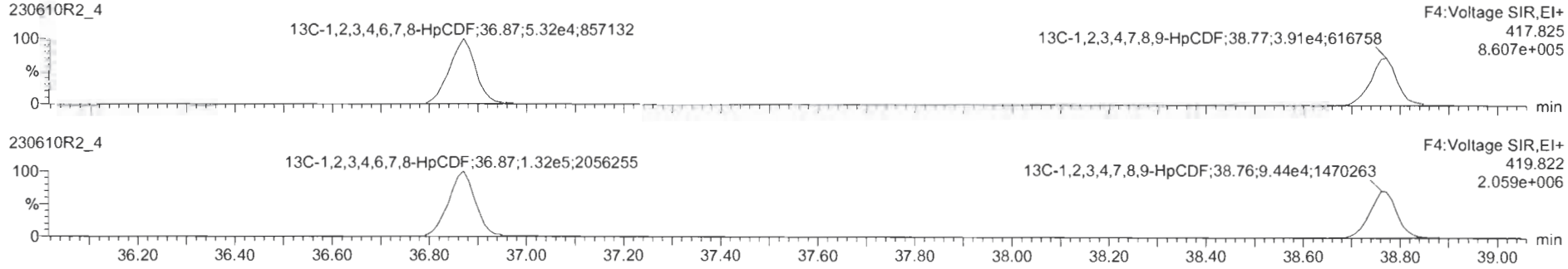
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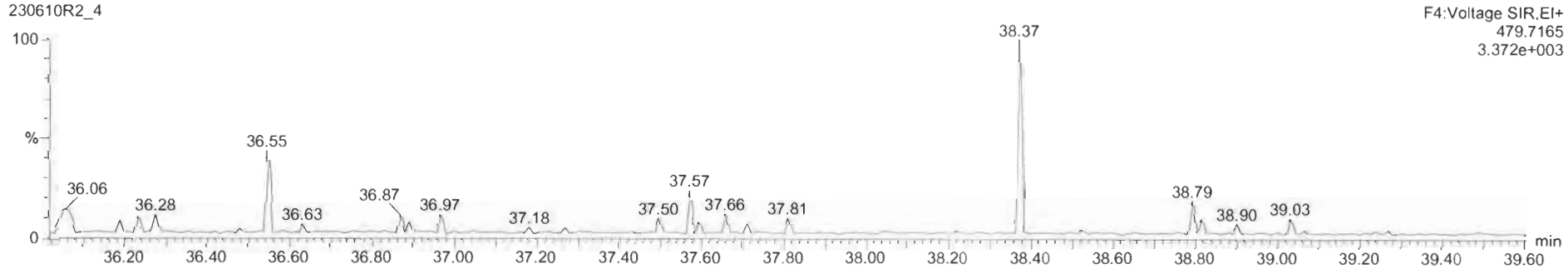
1,2,3,4,6,7,8-HpCDF



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



DPE4

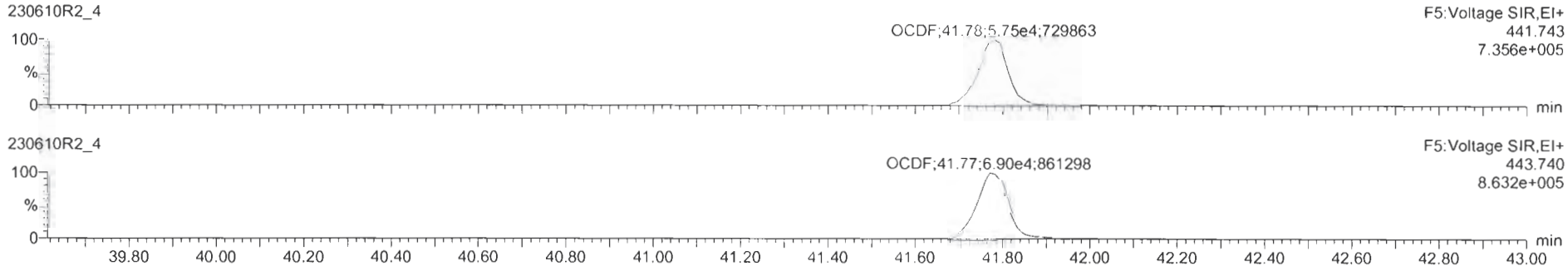


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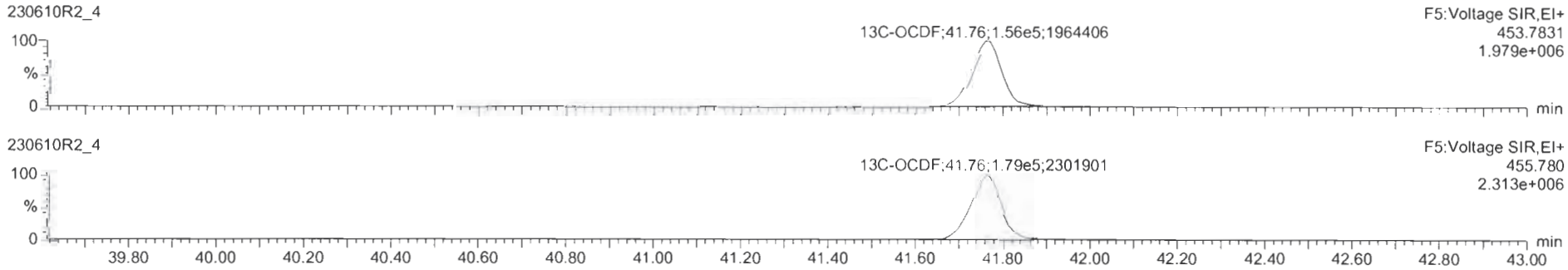
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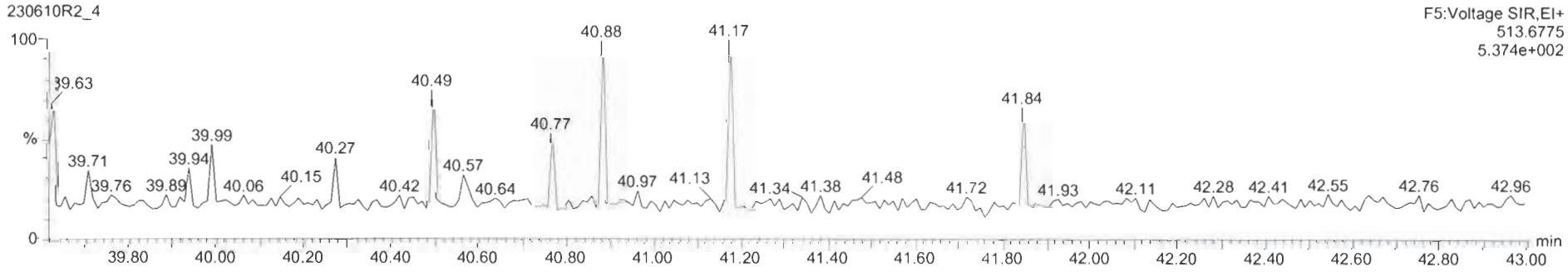
OCDF



13C-OCDF



DPE5

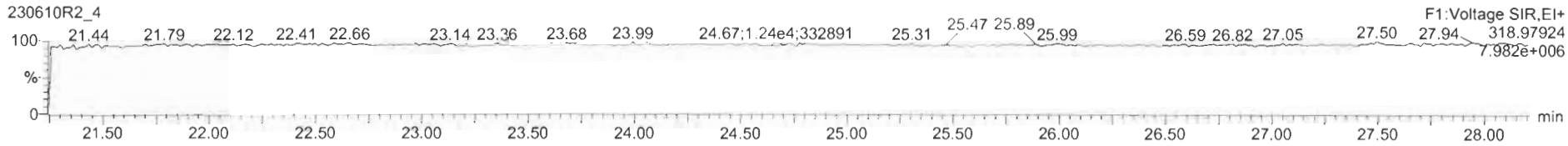


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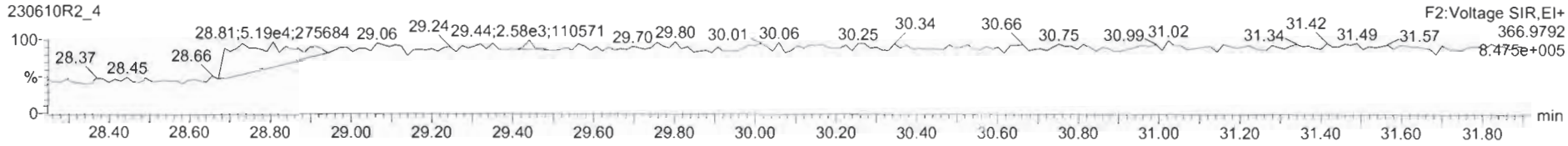
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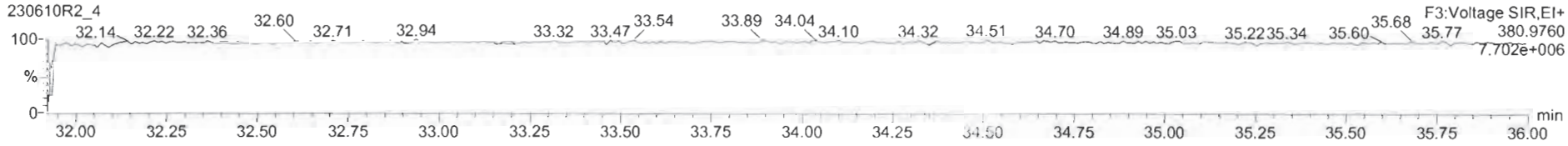
PFK1



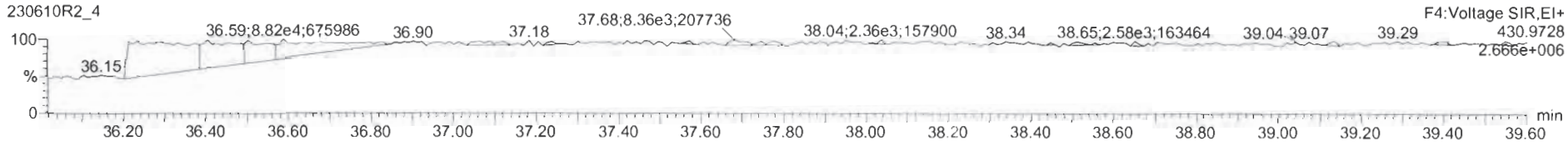
PFK2



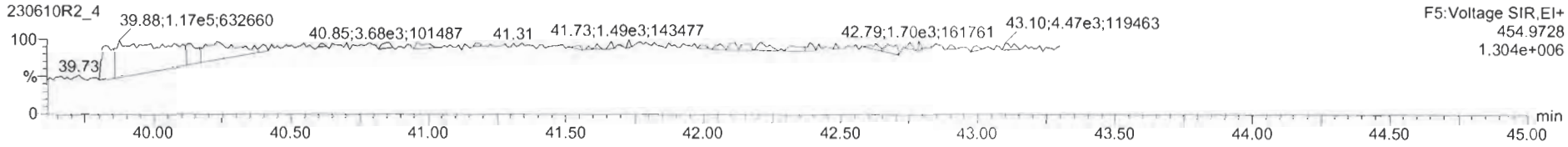
PFK3



PFK4



PFK5



Vista Analytical Laboratory VG-12

Dataset: I:\VG12.PRO\Results\230605R1\230605R1-4.qld

Last Altered: Monday, June 05, 2023 3:05:17 PM Pacific Daylight Time
Printed: Thursday, June 08, 2023 11:28:10 AM Pacific Daylight Time

6/09/23
HAL 6-8-2023

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R1_4, Date: 05-Jun-2023, Time: 12:38:51, ID: B23E152-BLK1 Method Blank 10, Description: Method Blank, Task: ST230605R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.906	10.000					0.0448	
2	1,2,3,7,8-PeCDD			NO	0.745	10.000					0.0866	
3	1,2,3,4,7,8-HxCDD			NO	0.837	10.000					0.0882	
4	1,2,3,6,7,8-HxCDD			NO	0.782	10.000					0.0934	
5	1,2,3,7,8,9-HxCDD			NO	0.780	10.000					0.0943	
6	1,2,3,4,6,7,8-HpCDD			NO	0.903	10.000					0.142	
7	OCDD			NO	0.782	10.000					0.268	
8	2,3,7,8-TCDF			NO	0.852	10.000					0.0264	
9	1,2,3,7,8-PeCDF			NO	0.758	10.000					0.0498	
10	2,3,4,7,8-PeCDF			NO	0.834	10.000					0.0493	
11	1,2,3,4,7,8-HxCDF			NO	0.762	10.000					0.0446	
12	1,2,3,6,7,8-HxCDF			NO	0.726	10.000					0.0450	
13	2,3,4,6,7,8-HxCDF			NO	0.756	10.000					0.0528	
14	1,2,3,7,8,9-HxCDF			NO	0.749	10.000					0.0648	
15	1,2,3,4,6,7,8-HpCDF			NO	0.754	10.000					0.0597	
16	1,2,3,4,7,8,9-HpCDF			NO	0.792	10.000					0.0808	
17	OCDF			NO	0.669	10.000					0.106	
18	13C-2,3,7,8-TCDD	3.91e5	0.78	NO	1.13	10.000	26.73	1.026	184.60	92.3	0.194	
19	13C-1,2,3,7,8-PeCDD	2.69e5	0.62	NO	0.869	10.000	30.98	1.189	164.24	82.1	0.282	
20	13C-1,2,3,4,7,8-HxCDD	2.33e5	1.28	NO	0.746	10.000	34.29	1.014	169.38	84.7	0.451	
21	13C-1,2,3,6,7,8-HxCDD	2.40e5	1.26	NO	0.803	10.000	34.42	1.018	161.92	81.0	0.419	
22	13C-1,2,3,7,8,9-HxCDD	2.49e5	1.23	NO	0.817	10.000	34.71	1.026	165.58	82.8	0.412	
23	13C-1,2,3,4,6,7,8-HpCDD	1.75e5	1.08	NO	0.611	10.000	38.07	1.126	155.72	77.9	0.536	
24	13C-OCDD	2.53e5	0.90	NO	0.545	10.000	41.42	1.225	251.26	62.8	0.410	
25	13C-2,3,7,8-TCDF	5.03e5	0.79	NO	1.07	10.000	26.14	1.003	166.07	83.0	0.187	
26	13C-1,2,3,7,8-PeCDF	4.28e5	1.62	NO	0.907	10.000	29.85	1.145	167.46	83.7	0.339	
27	13C-2,3,4,7,8-PeCDF	4.13e5	1.61	NO	0.889	10.000	30.80	1.182	164.85	82.4	0.346	
28	13C-1,2,3,4,7,8-HxCDF	3.24e5	0.50	NO	0.993	10.000	33.36	0.986	176.81	88.4	0.496	
29	13C-1,2,3,6,7,8-HxCDF	3.42e5	0.49	NO	1.05	10.000	33.49	0.990	175.90	88.0	0.468	
30	13C-2,3,4,6,7,8-HxCDF	3.06e5	0.49	NO	0.956	10.000	34.18	1.011	173.42	86.7	0.516	
31	13C-1,2,3,7,8,9-HxCDF	2.69e5	0.50	NO	0.853	10.000	35.25	1.042	171.41	85.7	0.578	

Dataset: I:\VG12.PRO\Results\230605R1\230605R1-4.qld

Last Altered: Monday, June 05, 2023 3:05:17 PM Pacific Daylight Time
Printed: Thursday, June 08, 2023 11:28:10 AM Pacific Daylight Time

Name: 230605R1_4, Date: 05-Jun-2023, Time: 12:38:51, ID: B23E152-BLK1 Method Blank 10, Description: Method Blank, Task: ST230605R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.12e5	0.41	NO	0.721	10.000	36.88	1.091	159.61	79.8	0.587	
33	13C-1,2,3,4,7,8,9-HpCDF	1.58e5	0.40	NO	0.581	10.000	38.78	1.147	147.78	73.9	0.729	
34	13C-OCDF	3.34e5	0.91	NO	0.718	10.000	41.78	1.235	252.53	63.1	0.422	
35	37Cl-2,3,7,8-TCDD	1.51e5			0.980	10.000	26.76	1.027	81.649	102	0.0396	
36	13C-1,2,3,4-TCDD	3.77e5	0.80	NO	1.00	10.000	26.06	1.000	200.00	100	0.218	
37	13C-1,2,3,4-TCDF	5.64e5	0.79	NO	1.00	10.000	24.78	1.000	200.00	100	0.201	
38	13C-1,2,3,4,6,9-HxCDF	3.69e5	0.50	NO	1.00	10.000	33.82	1.000	200.00	100	0.493	
39	Total Tetra-Dioxins				0.906	10.000					0.0221	
40	Total Penta-Dioxins				0.745	10.000					0.0406	
41	Total Hexa-Dioxins				0.782	10.000					0.0408	
42	Total Hepta-Dioxins				0.903	10.000					0.0632	
43	Total Tetra-Furans				0.852	10.000					0.0131	
44	1st Func. Penta-Furans				0.758	10.000					0.0103	
45	Total Penta-Furans				0.758	10.000					<0.0219	
46	Total Hexa-Furans				0.756	10.000					0.0274	
47	Total Hepta-Furans				0.754	10.000					0.0307	

Dataset: I:\VG12.PRO\Results\230605R1\230605R1-4.qld

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Printed: Thursday, June 08, 2023 11:28:10 AM Pacific Daylight Time

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R1_4, Date: 05-Jun-2023, Time: 12:38:51, ID: B23E152-BLK1 Method Blank 10, Description: Method Blank, Task: ST230605R1_1

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: I:\VG12.PRO\Results\230605R1\230605R1-4.qld

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Name: 230605R1_4, Date: 05-Jun-2023, Time: 12:38:51, ID: B23E152-BLK1 Method Blank 10, Description: Method Blank, Task: ST230605R1_1

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

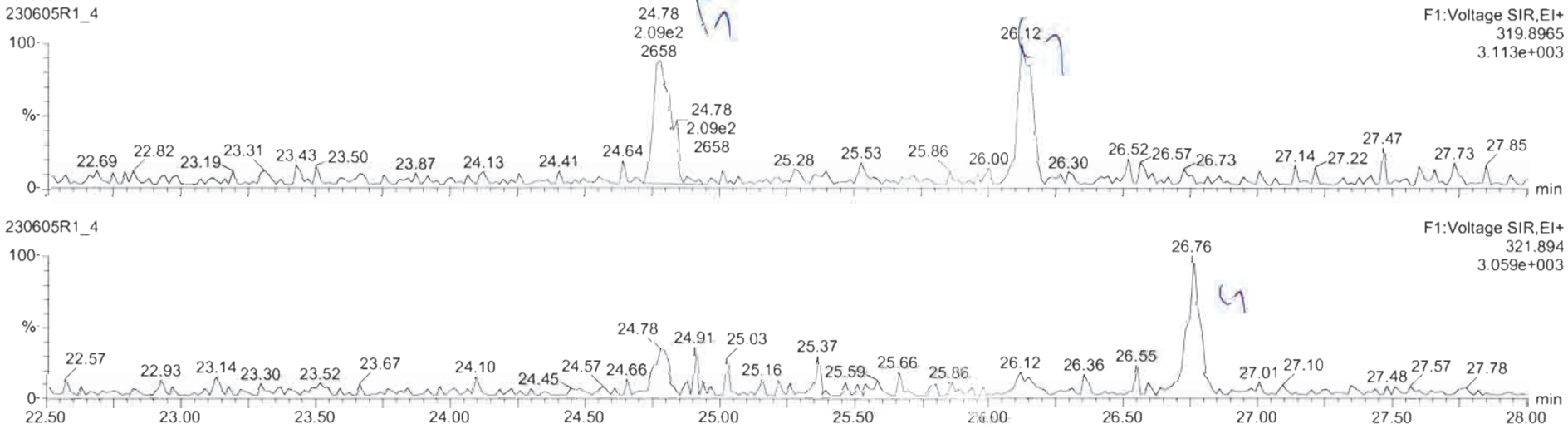
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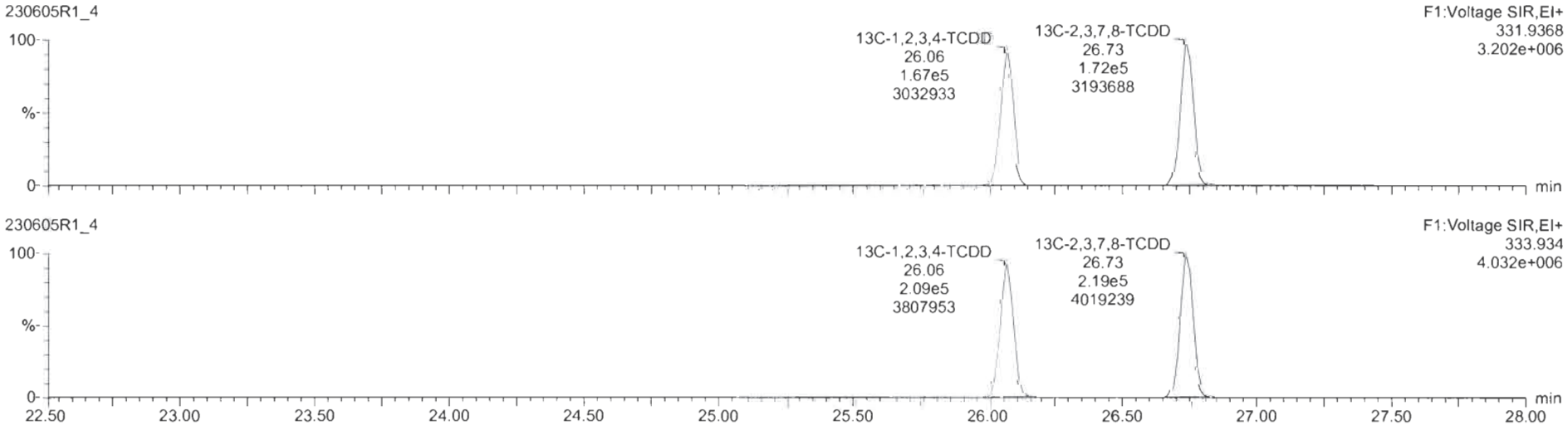
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Name: 230605R1_4, Date: 05-Jun-2023, Time: 12:38:51, ID: B23E152-BLK1 Method Blank 10, Description: **Method Blank**

2,3,7,8-TCDD



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

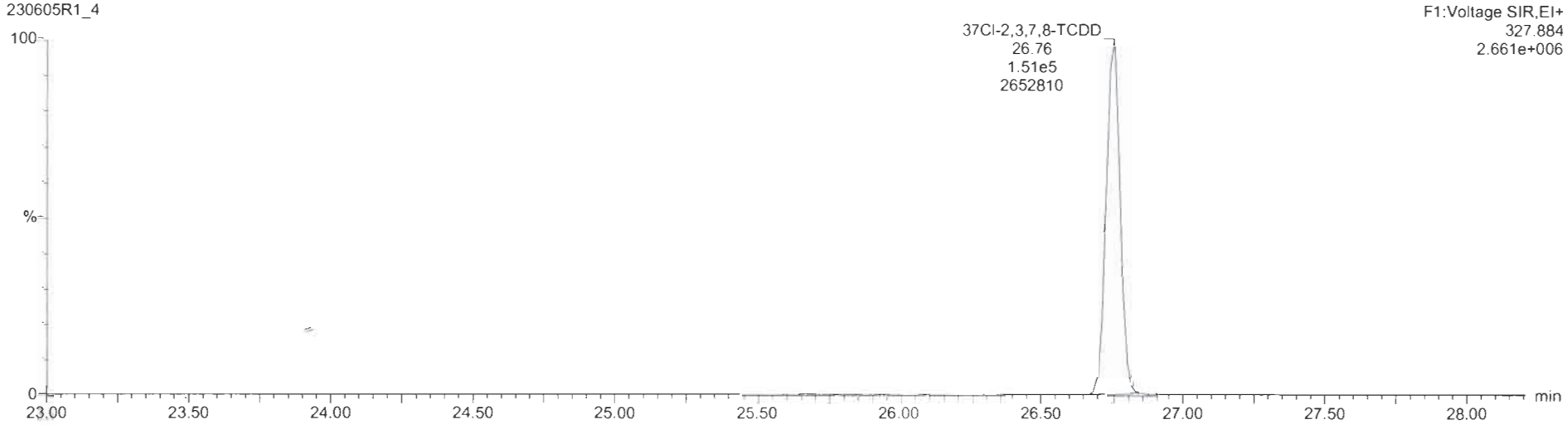


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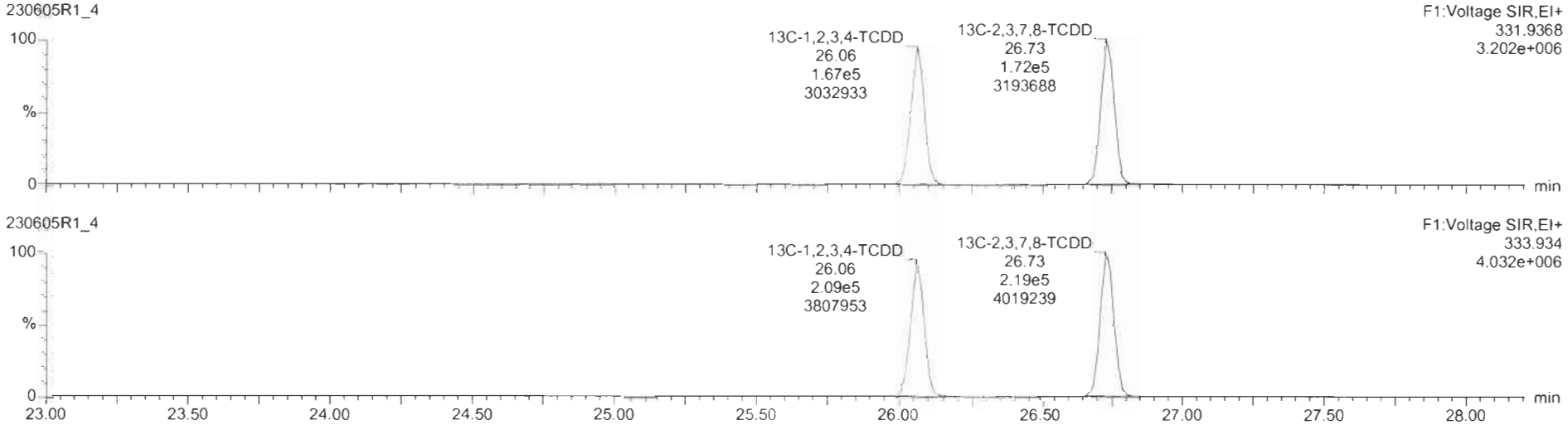
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Name: 230605R1_4, Date: 05-Jun-2023, Time: 12:38:51, ID: B23E152-BLK1 Method Blank 10, Description: Method Blank

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



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

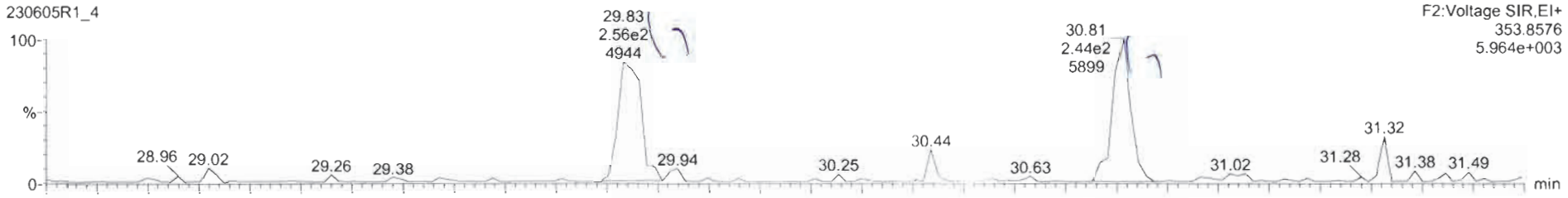


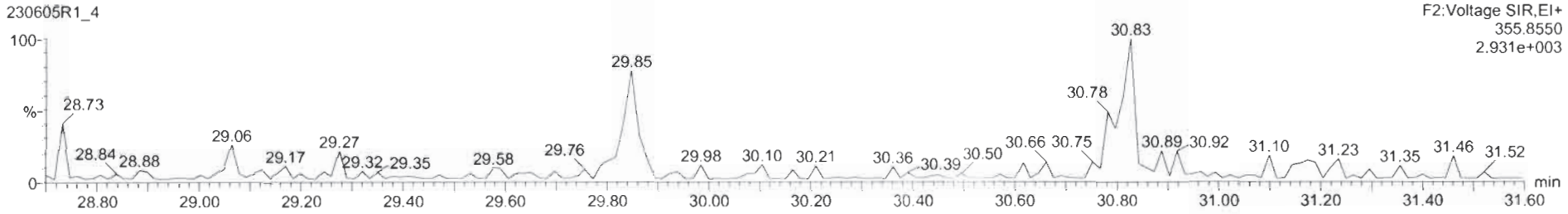
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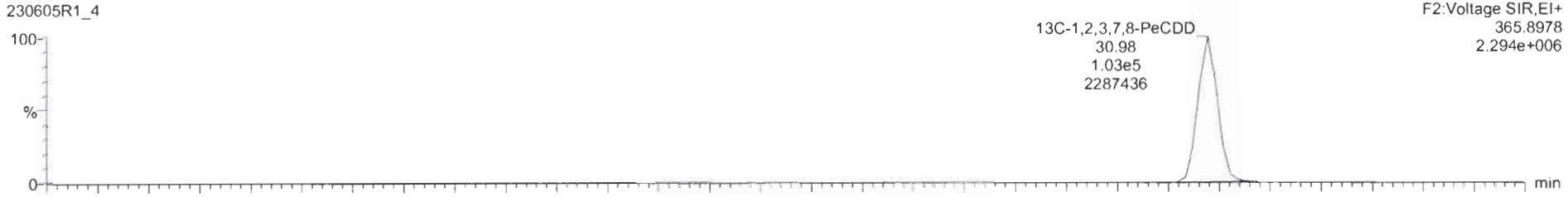
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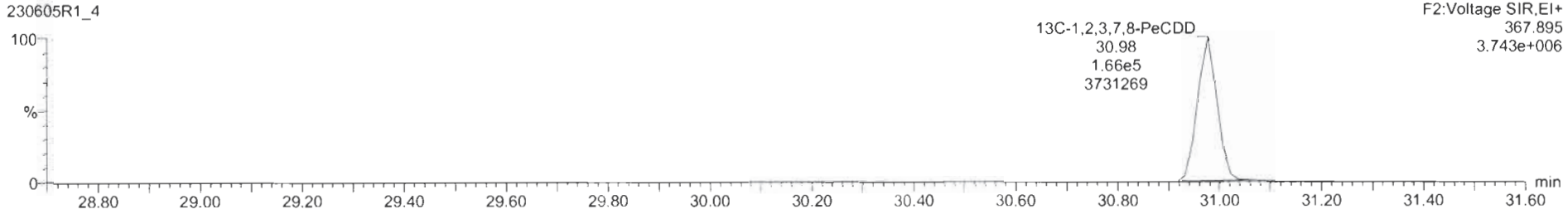
1,2,3,7,8-PeCDD





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



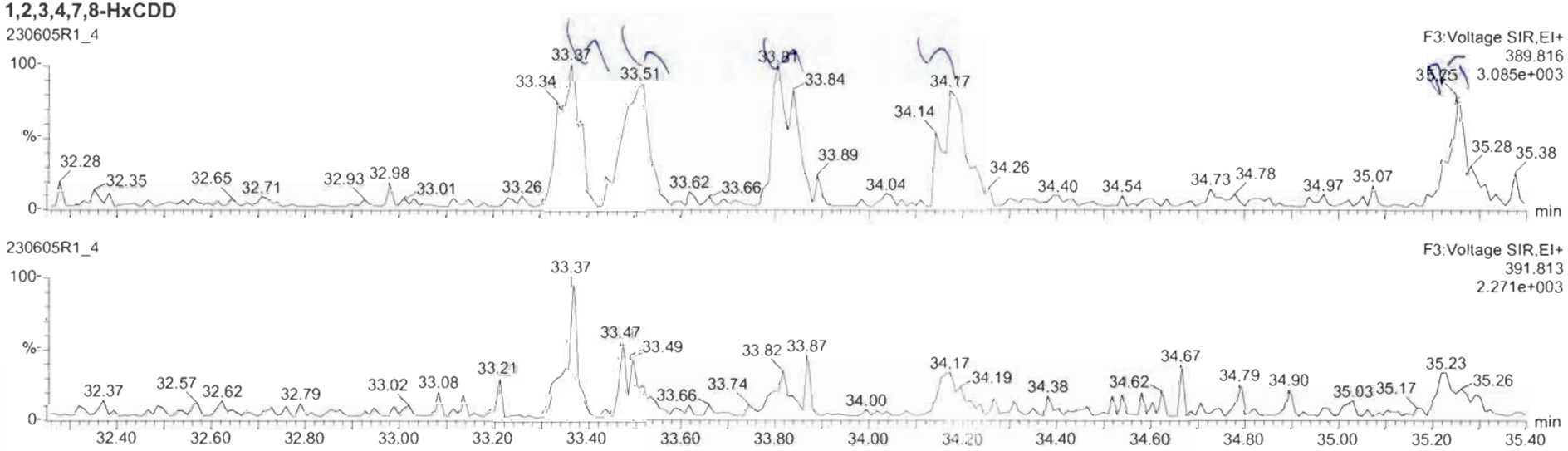


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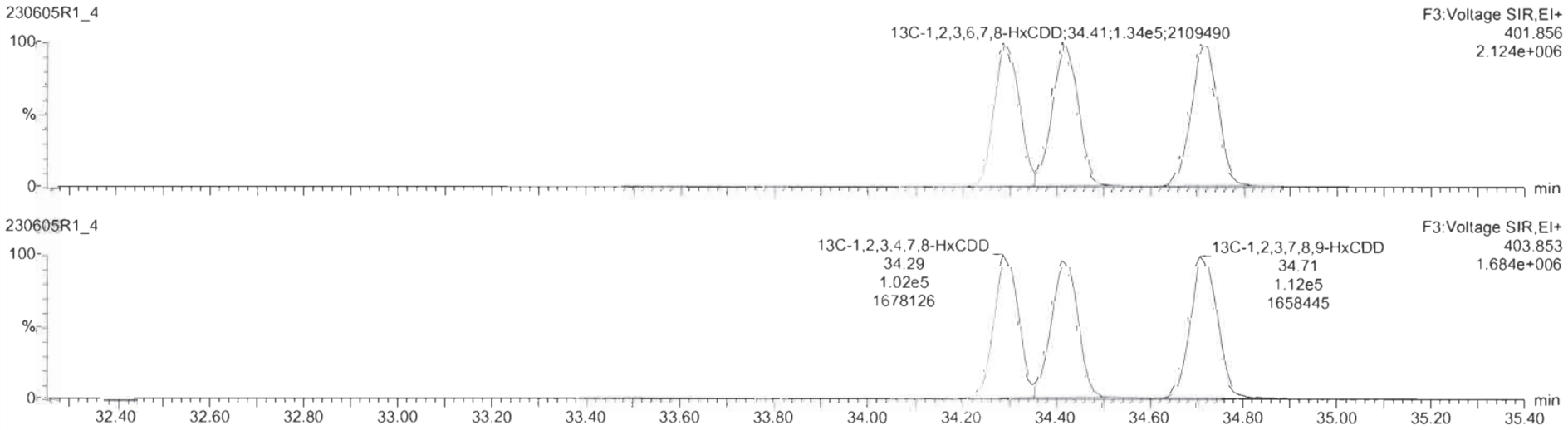
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Name: 230605R1_4, Date: 05-Jun-2023, Time: 12:38:51, ID: B23E152-BLK1 Method Blank 10, Description: **Method Blank**

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



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

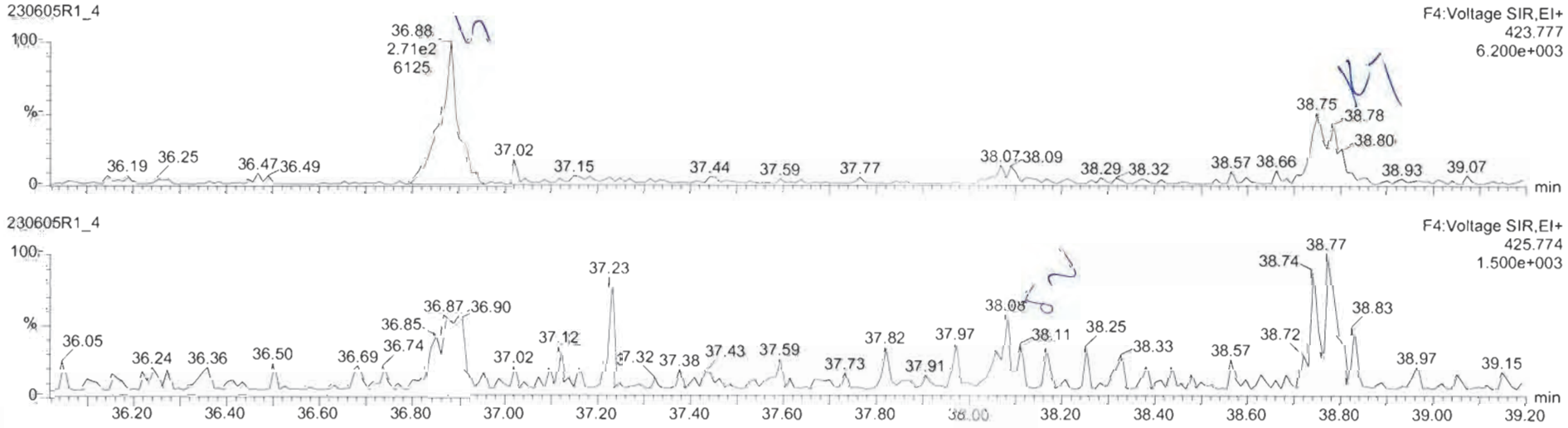


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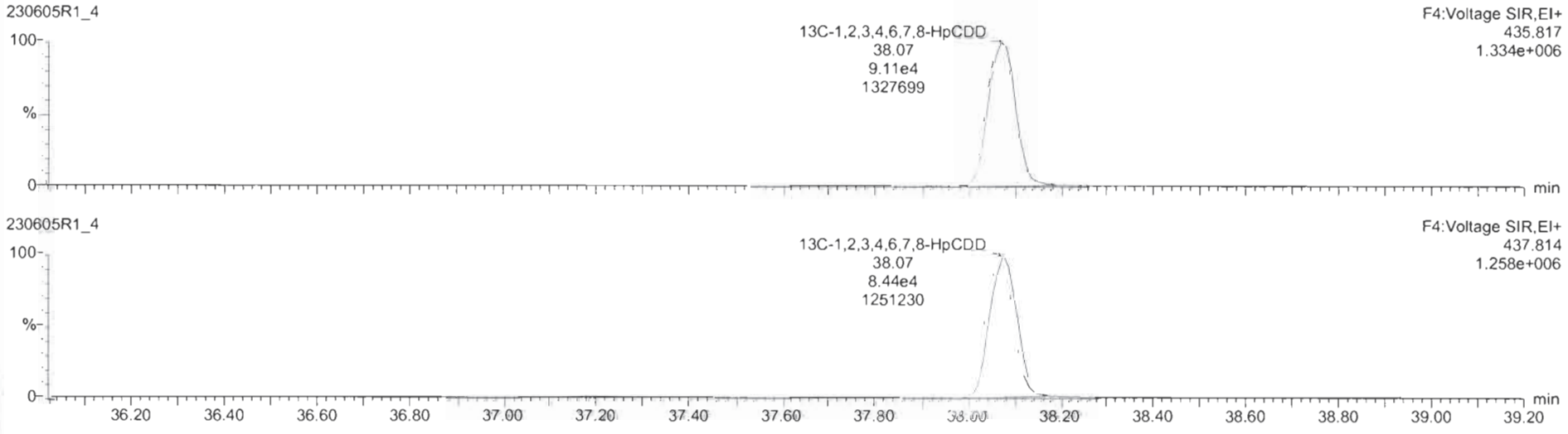
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Name: 230605R1_4, Date: 05-Jun-2023, Time: 12:38:51, ID: B23E152-BLK1 Method Blank 10, Description: Method Blank

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



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

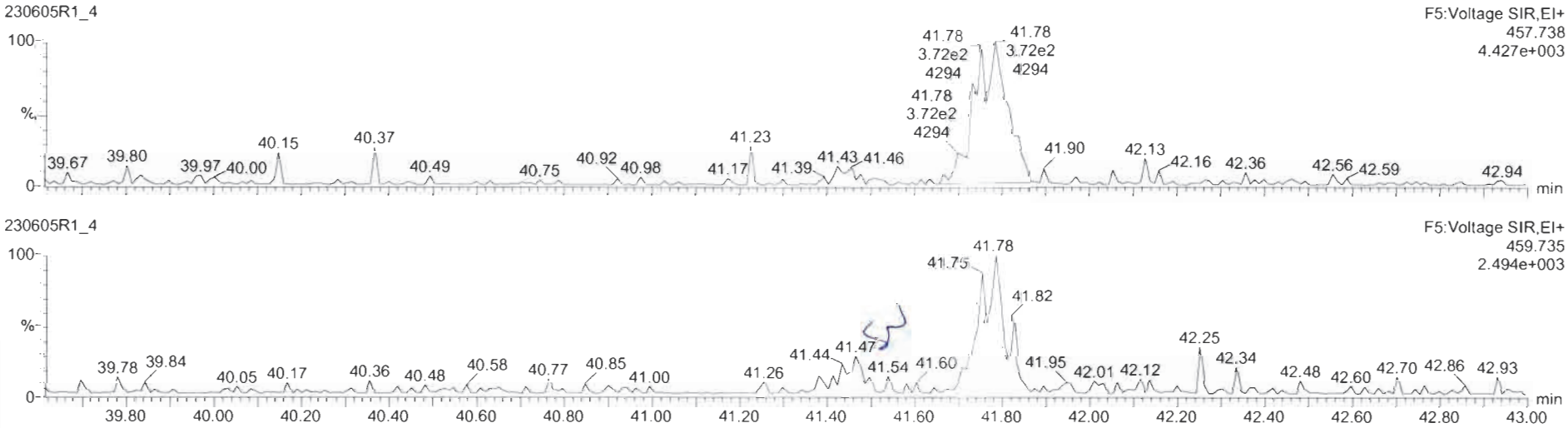


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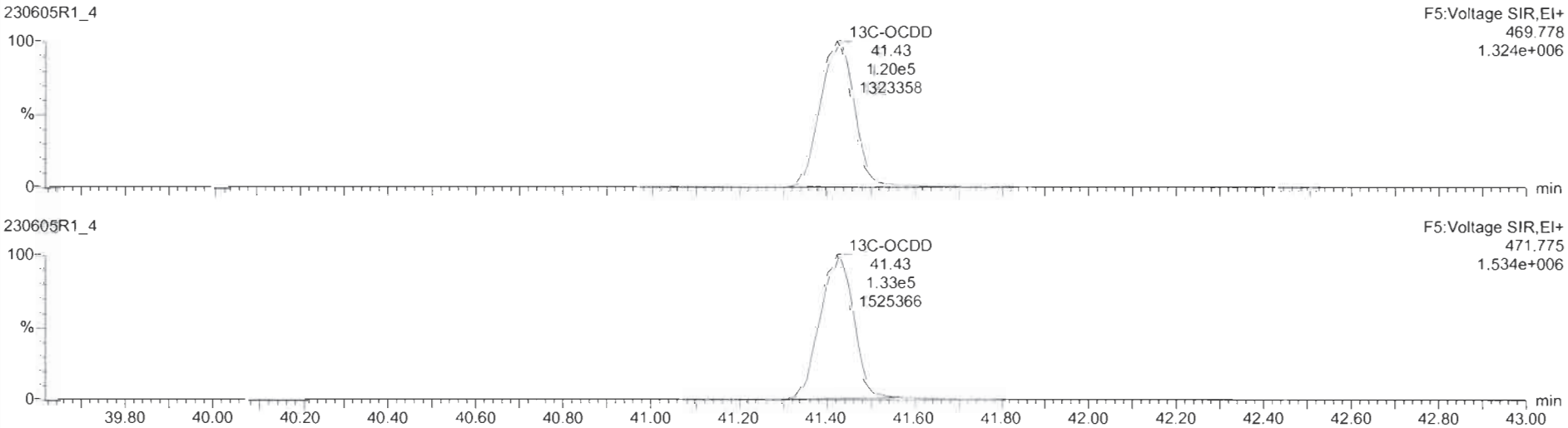
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OCDD



13C-OCDD

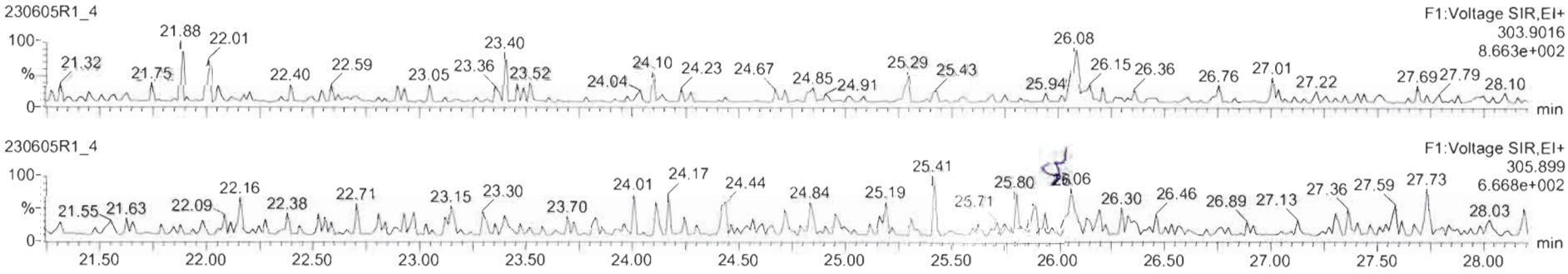


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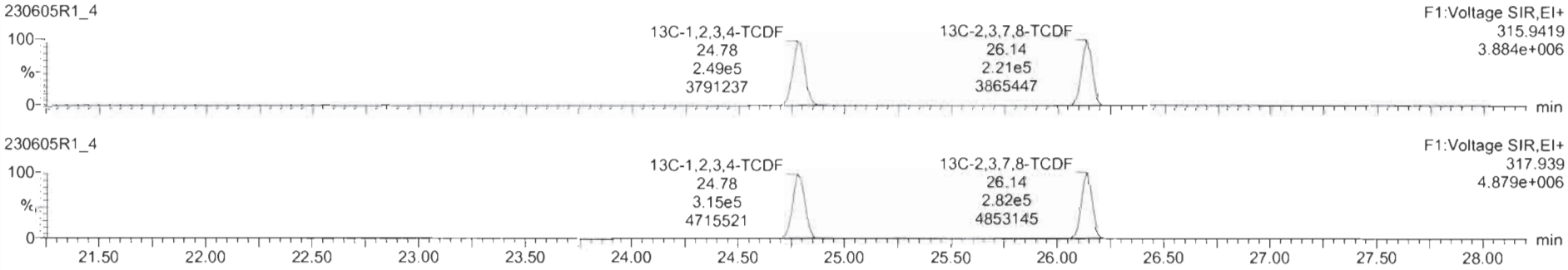
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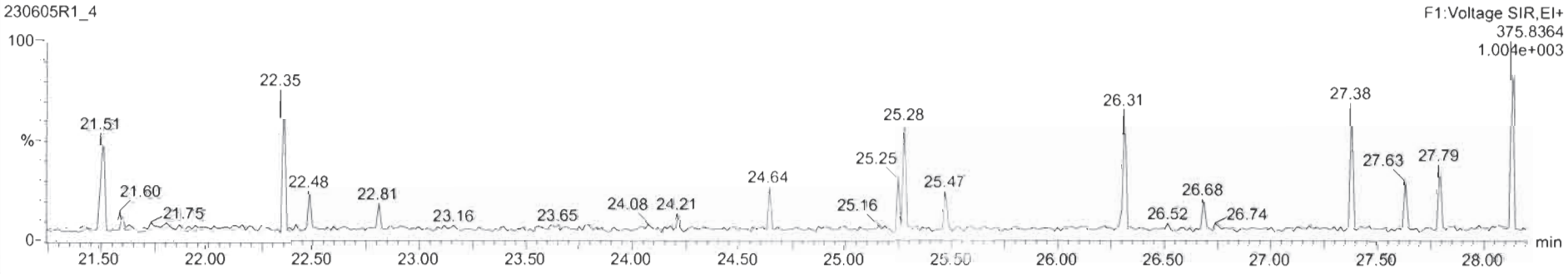
2,3,7,8-TCDF



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



DPE1

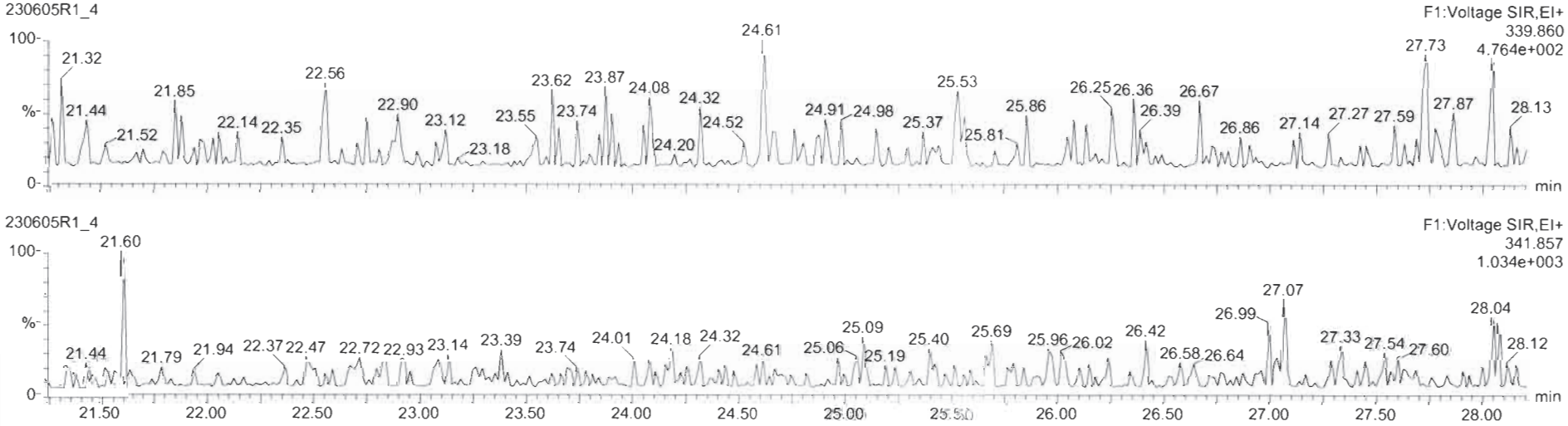


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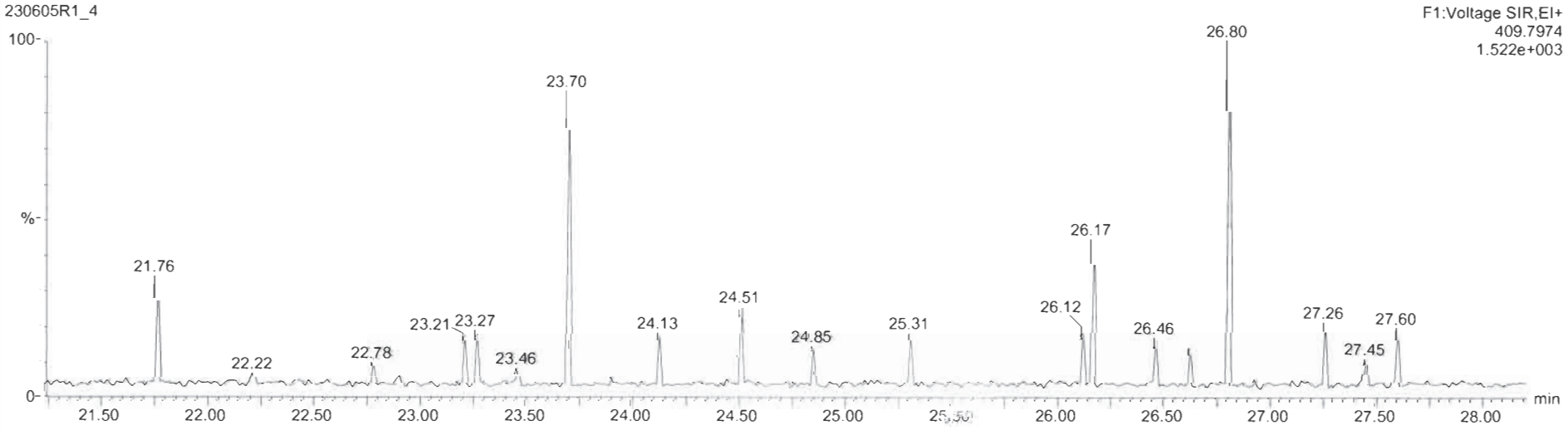
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Name: 230605R1_4, Date: 05-Jun-2023, Time: 12:38:51, ID: B23E152-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans



DPE6

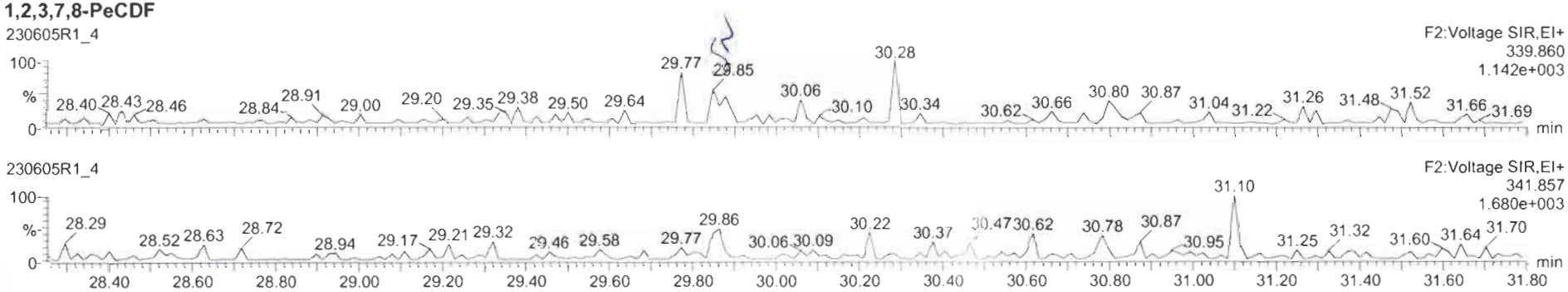


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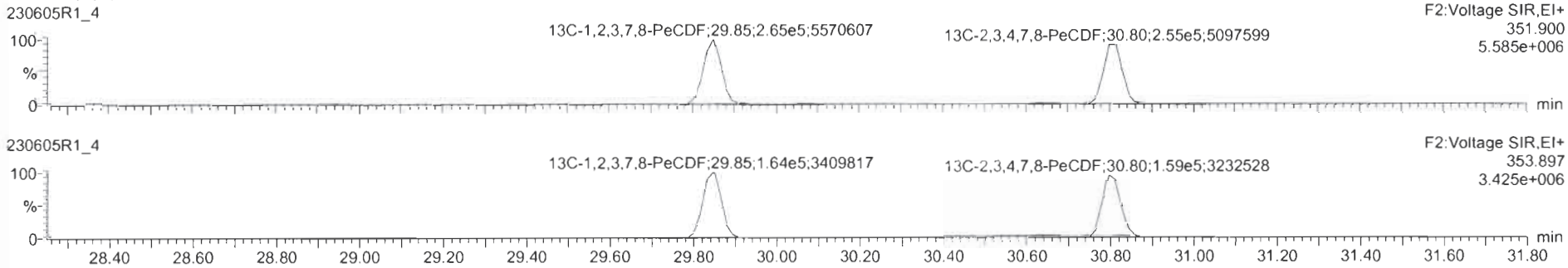
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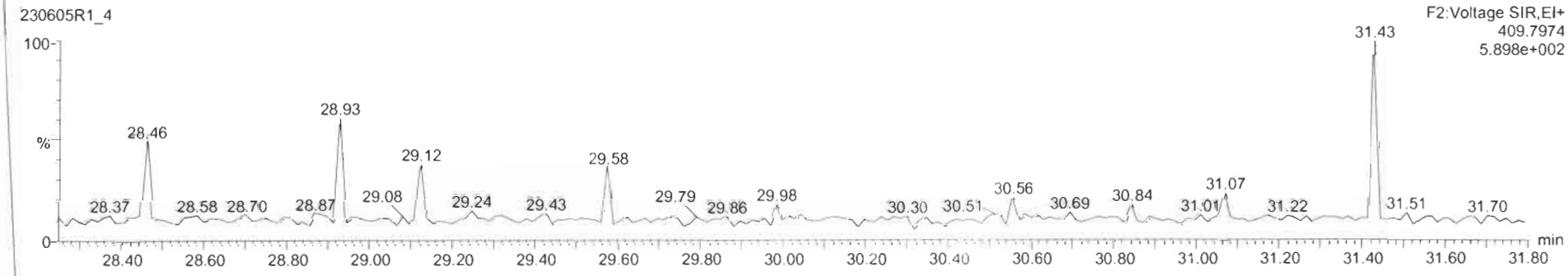
1,2,3,7,8-PeCDF



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



DPE2

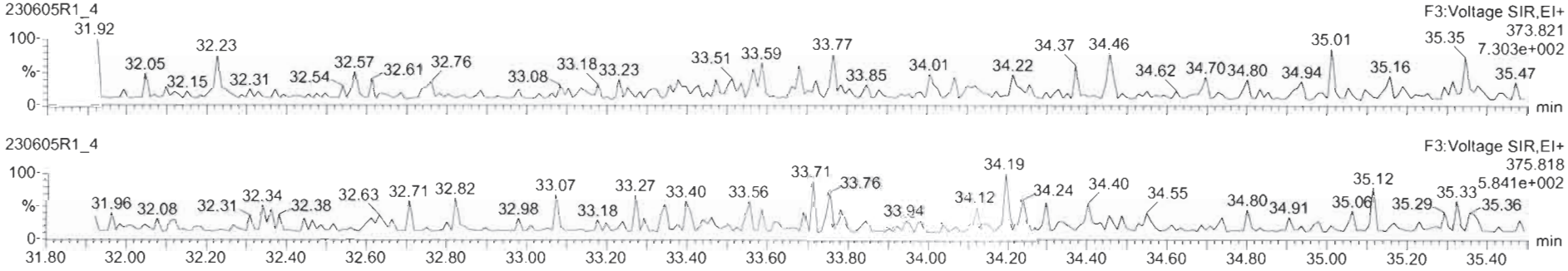


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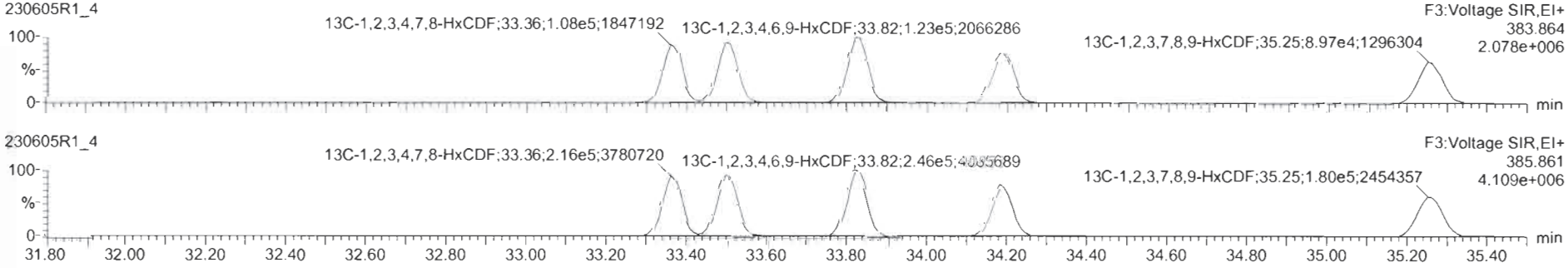
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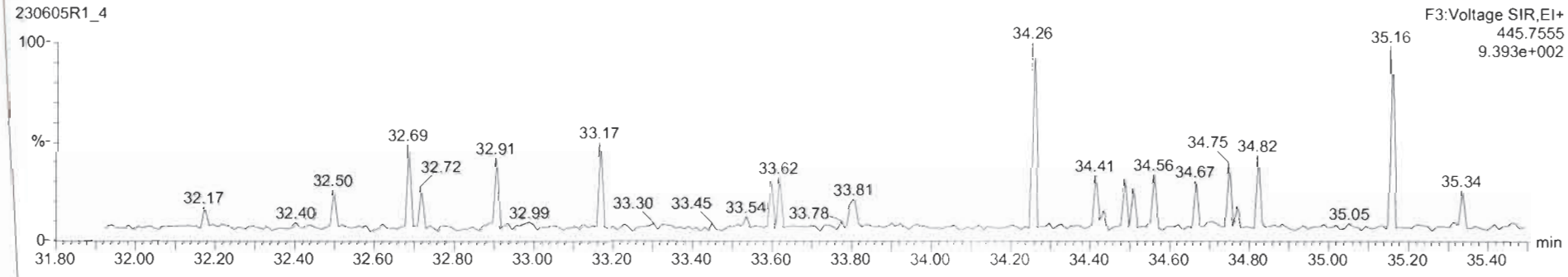
1,2,3,4,7,8-HxCDF



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



DPE3

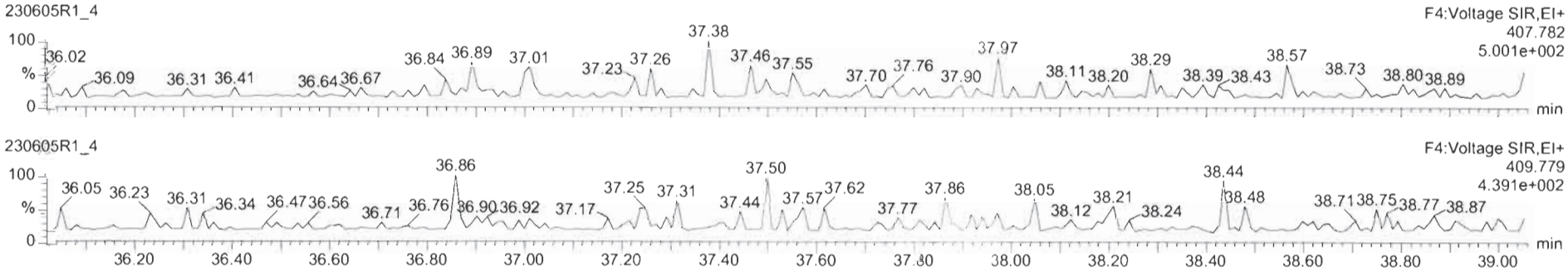


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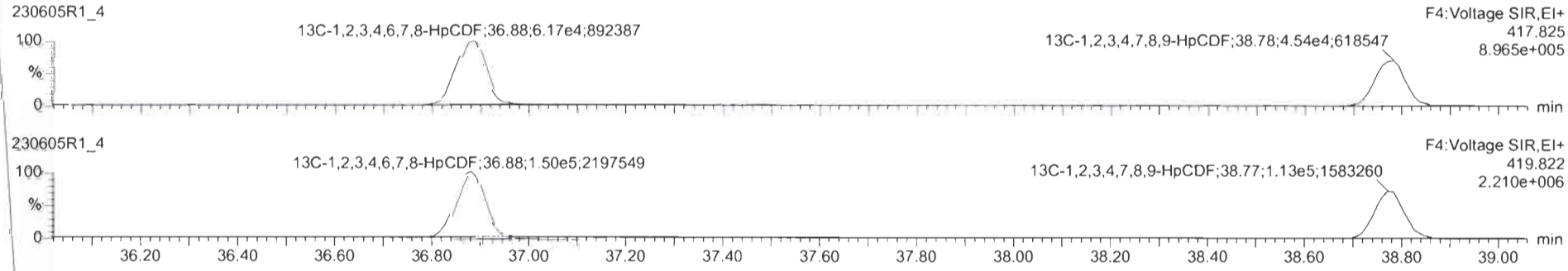
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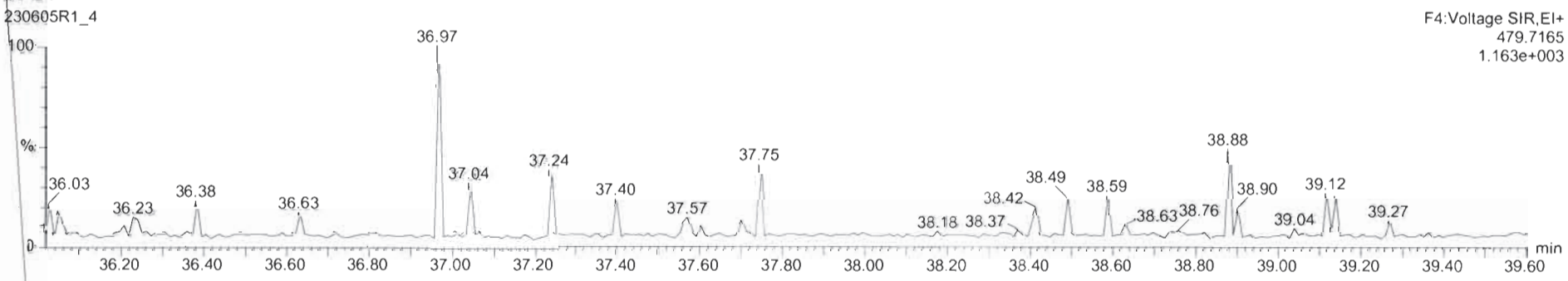
1,2,3,4,6,7,8-HpCDF



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



OPE4

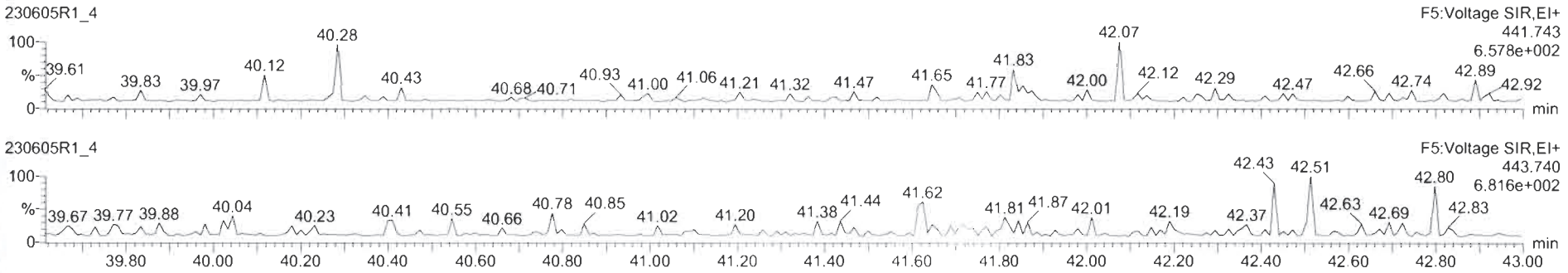


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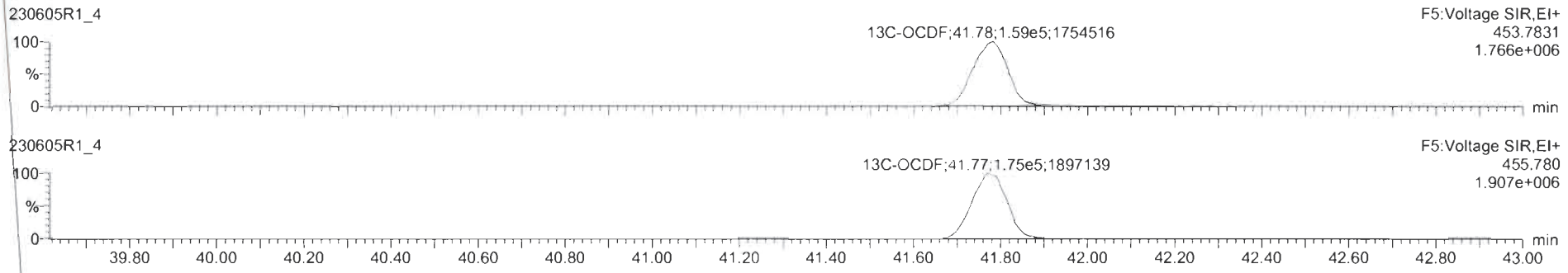
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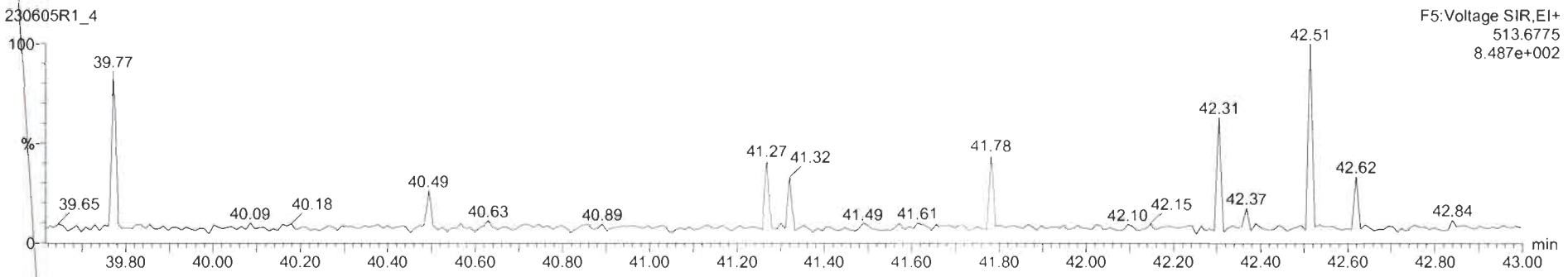
OCDF



13C-OCDF



DPE5

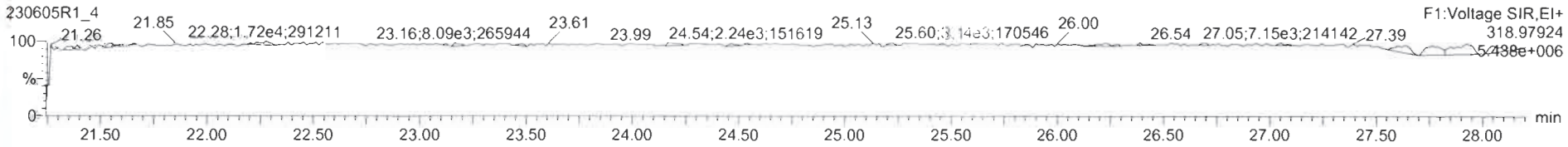


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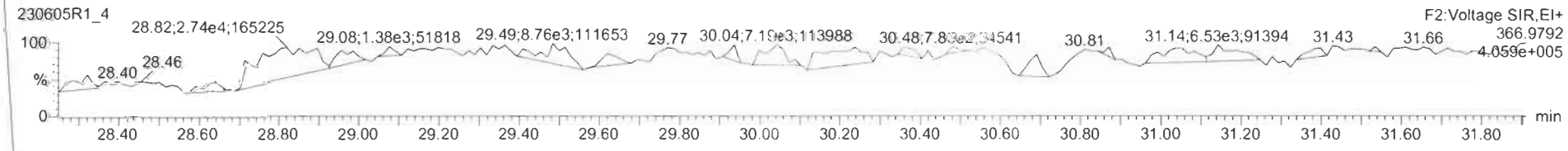
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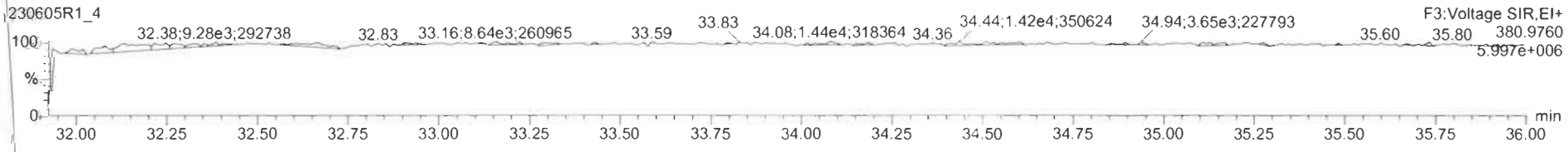
PFK1



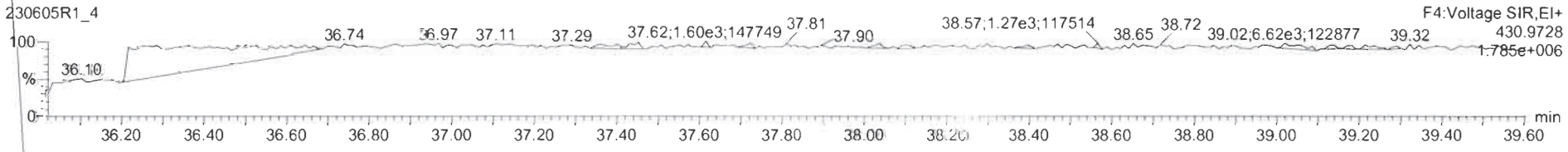
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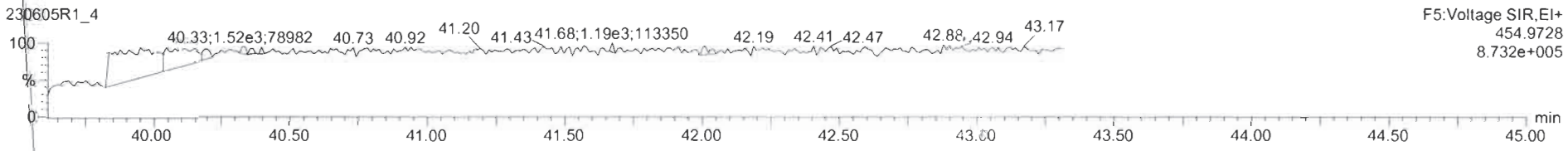
PFK3



PFK4



PFK5



Vista Analytical Laboratory VG-12

Dataset: I:\VG12.PRO\Results\230605R1\230605R1-2.qld

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Printed: Thursday, June 08, 2023 11:26:21 AM Pacific Daylight Time

JL 06/09/23
HAL 6.8.2023

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR, Task: ST230605R1_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.28e4	0.74	NO	0.906	10.000	26.76	1.001	19.002		0.103	19.0
2	1,2,3,7,8-PeCDD	1.10e5	0.61	NO	0.745	10.000	30.99	1.000	110.52		0.158	111
3	1,2,3,4,7,8-HxCDD	9.85e4	1.32	NO	0.837	10.000	34.31	1.000	104.52		0.380	105
4	1,2,3,6,7,8-HxCDD	9.60e4	1.34	NO	0.782	10.000	34.44	1.000	107.90		0.378	108
5	1,2,3,7,8,9-HxCDD	1.00e5	1.31	NO	0.780	10.000	34.74	1.001	106.39		0.371	106
6	1,2,3,4,6,7,8-HpCDD	7.88e4	1.03	NO	0.903	10.000	38.10	1.001	104.43		0.377	104
7	OCDD	1.06e5	0.89	NO	0.782	10.000	41.45	1.000	210.95		0.555	211
8	2,3,7,8-TCDF	4.07e4	0.74	NO	0.852	10.000	26.17	1.001	20.015		0.0643	20.0
9	1,2,3,7,8-PeCDF	1.74e5	1.69	NO	0.758	10.000	29.86	1.000	111.00		0.219	111
10	2,3,4,7,8-PeCDF	1.88e5	1.64	NO	0.834	10.000	30.83	1.000	113.20		0.211	113
11	1,2,3,4,7,8-HxCDF	1.22e5	1.19	NO	0.762	10.000	33.38	1.000	105.31		0.247	105
12	1,2,3,6,7,8-HxCDF	1.18e5	1.20	NO	0.726	10.000	33.51	1.000	101.12		0.247	101
13	2,3,4,6,7,8-HxCDF	1.10e5	1.21	NO	0.756	10.000	34.21	1.001	101.76		0.300	102
14	1,2,3,7,8,9-HxCDF	9.55e4	1.21	NO	0.749	10.000	35.28	1.001	100.32		0.380	100
15	1,2,3,4,6,7,8-HpCDF	7.46e4	1.02	NO	0.754	10.000	36.90	1.000	101.06		0.344	101
16	1,2,3,4,7,8,9-HpCDF	6.15e4	0.99	NO	0.792	10.000	38.81	1.001	104.99		0.436	105
17	OCDF	1.12e5	0.85	NO	0.669	10.000	41.80	1.000	198.55		0.348	199
18	13C-2,3,7,8-TCDD	3.81e5	0.77	NO	1.13	10.000	26.74	1.026	206.54	103	0.315	
19	13C-1,2,3,7,8-PeCDD	2.68e5	0.61	NO	0.869	10.000	30.98	1.189	188.45	94.2	0.315	
20	13C-1,2,3,4,7,8-HxCDD	2.25e5	1.28	NO	0.746	10.000	34.30	1.014	193.42	96.7	0.496	
21	13C-1,2,3,6,7,8-HxCDD	2.27e5	1.26	NO	0.803	10.000	34.42	1.018	181.52	90.8	0.461	
22	13C-1,2,3,7,8,9-HxCDD	2.42e5	1.28	NO	0.817	10.000	34.72	1.026	189.47	94.7	0.453	
23	13C-1,2,3,4,6,7,8-HpCDD	1.67e5	1.05	NO	0.611	10.000	38.08	1.126	175.01	87.5	0.568	
24	13C-OCDD	2.58e5	0.87	NO	0.545	10.000	41.45	1.225	303.28	75.8	0.510	
25	13C-2,3,7,8-TCDF	4.77e5	0.79	NO	1.07	10.000	26.14	1.003	182.95	91.5	0.258	
26	13C-1,2,3,7,8-PeCDF	4.14e5	1.63	NO	0.907	10.000	29.85	1.145	187.83	93.9	0.296	
27	13C-2,3,4,7,8-PeCDF	3.99e5	1.62	NO	0.889	10.000	30.81	1.182	184.53	92.3	0.302	
28	13C-1,2,3,4,7,8-HxCDF	3.03e5	0.49	NO	0.993	10.000	33.37	0.986	195.47	97.7	0.746	
29	13C-1,2,3,6,7,8-HxCDF	3.22e5	0.49	NO	1.05	10.000	33.50	0.990	195.91	98.0	0.704	
30	13C-2,3,4,6,7,8-HxCDF	2.87e5	0.49	NO	0.956	10.000	34.18	1.010	192.45	96.2	0.775	
31	13C-1,2,3,7,8,9-HxCDF	2.54e5	0.48	NO	0.853	10.000	35.26	1.042	191.17	95.6	0.869	

Dataset: I:\VG12.PRO\Results\230605R1\230605R1-2.qld

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Printed: Thursday, June 08, 2023 11:26:21 AM Pacific Daylight Time

Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR, Task: ST230605R1_1

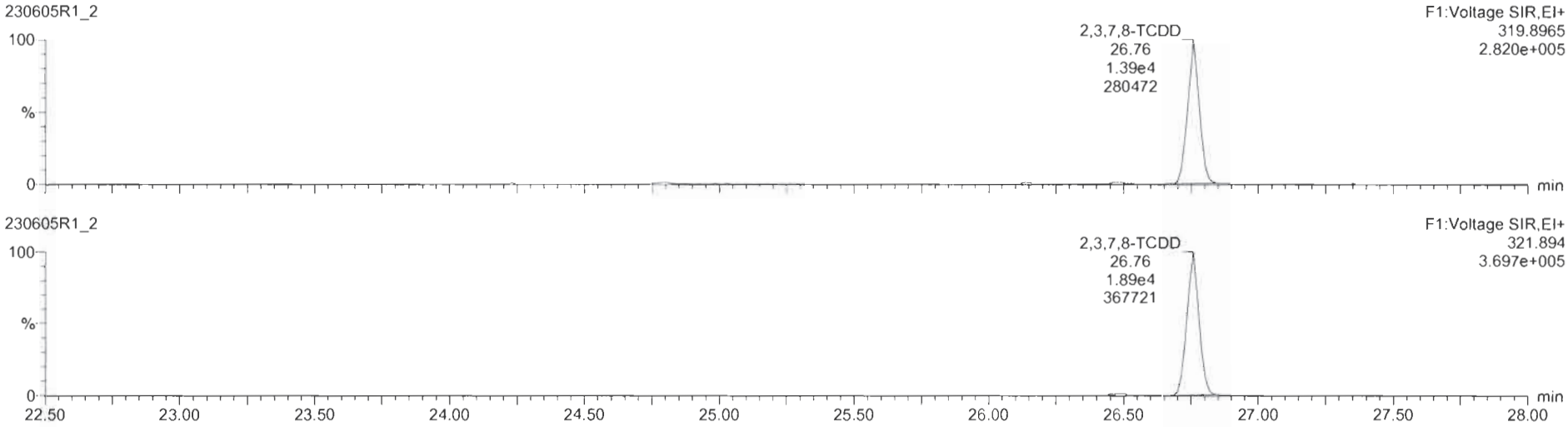
	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1.96e5	0.41	NO	0.721	10.000	36.89	1.091	173.99	87.0	0.596	
33	13C-1,2,3,4,7,8,9-HpCDF	1.48e5	0.40	NO	0.581	10.000	38.78	1.146	163.16	81.6	0.739	
34	13C-OCDF	3.37e5	0.89	NO	0.718	10.000	41.79	1.235	300.38	75.1	0.366	
35	37Cl-2,3,7,8-TCDD	1.47e5			0.980	10.000	26.76	1.027	91.269	114	0.0673	
36	13C-1,2,3,4-TCDD	3.28e5	0.77	NO	1.00	10.000	26.06	1.000	200.00	100	0.354	
37	13C-1,2,3,4-TCDF	4.86e5	0.79	NO	1.00	10.000	24.79	1.000	200.00	100	0.277	
38	13C-1,2,3,4,6,9-HxCDF	3.12e5	0.49	NO	1.00	10.000	33.83	1.000	200.00	100	0.741	

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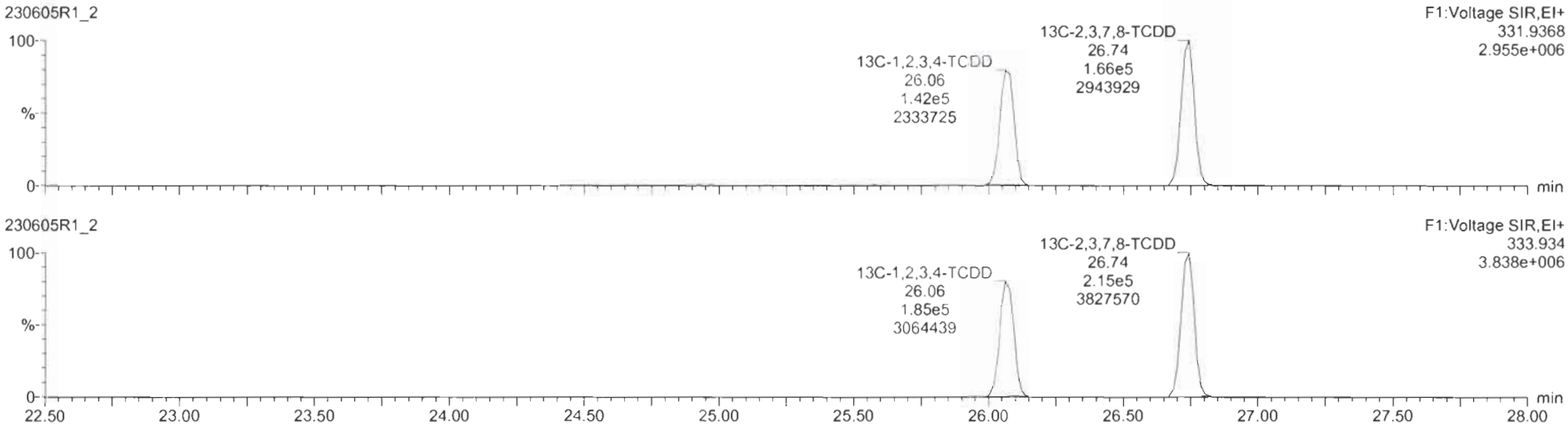
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Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR

2,3,7,8-TCDD



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

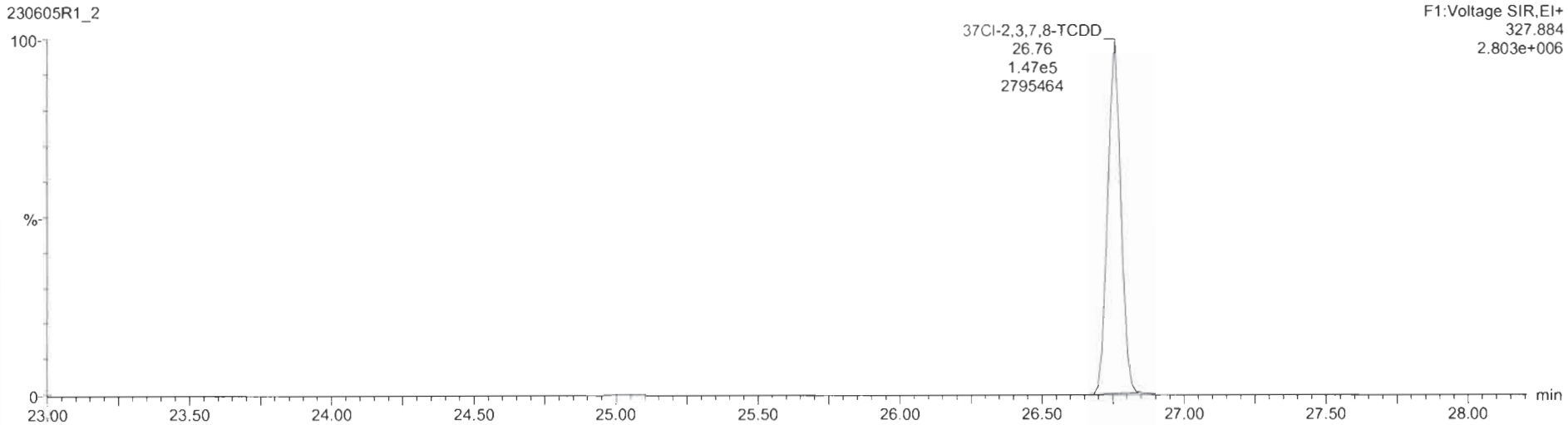


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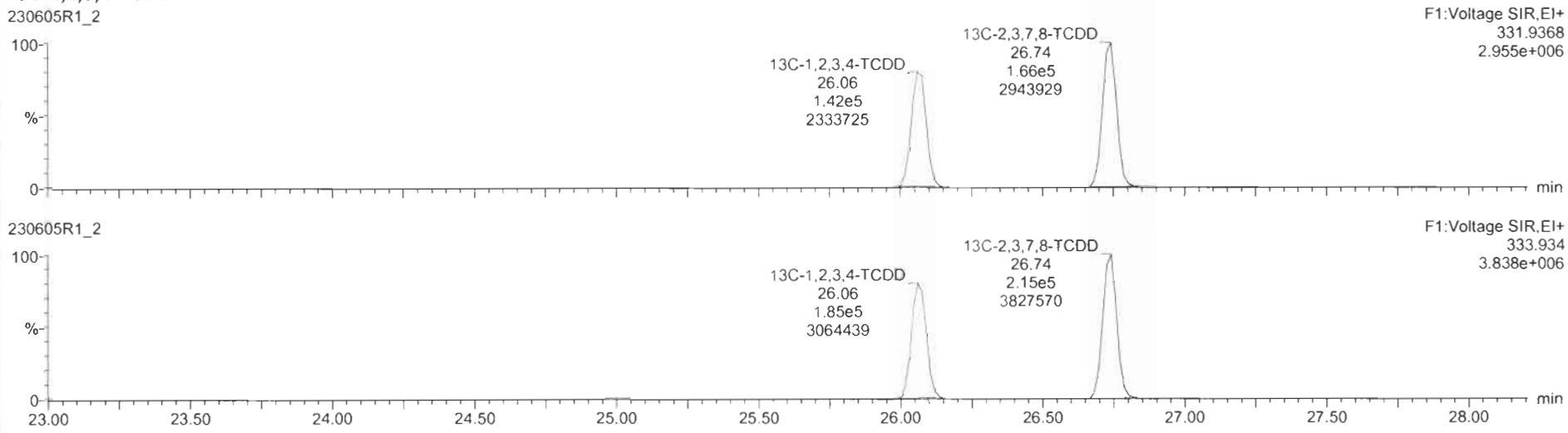
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37Cl-2,3,7,8-TCDD



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

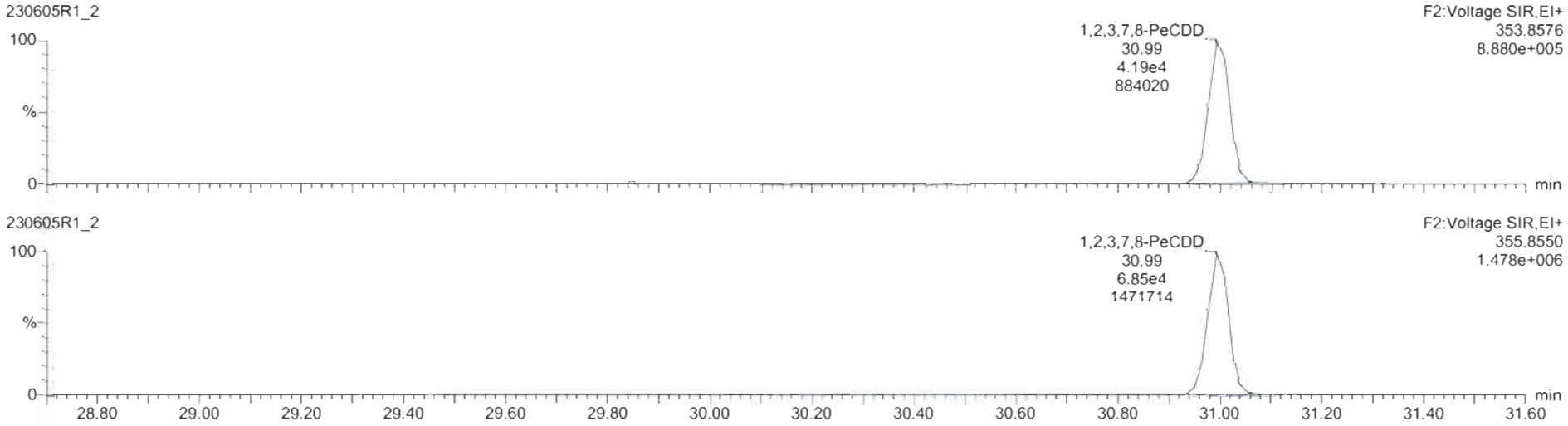


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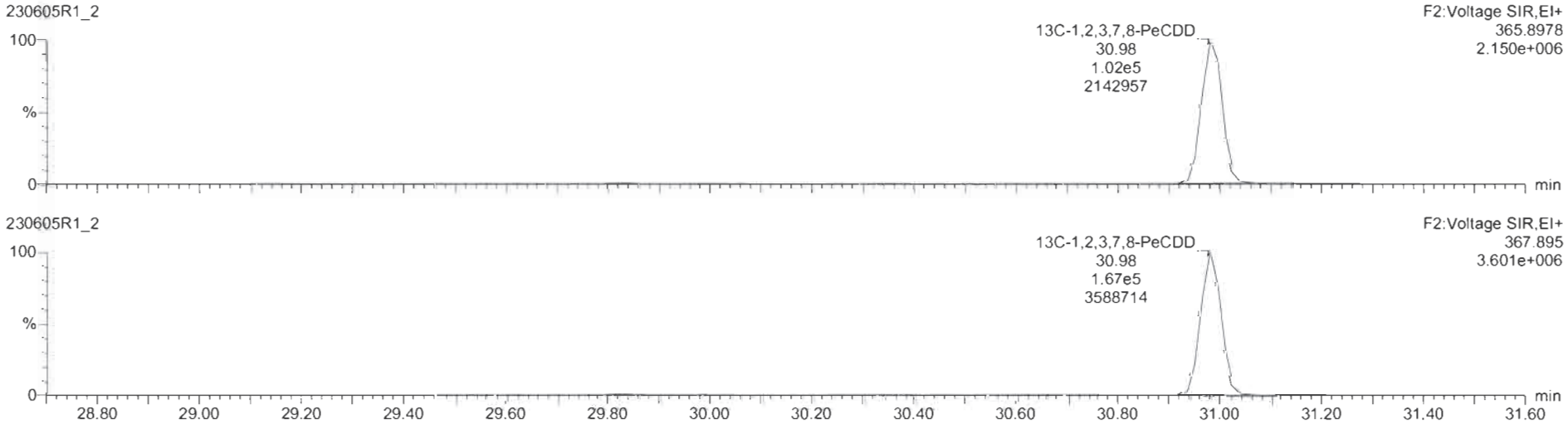
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Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDD



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



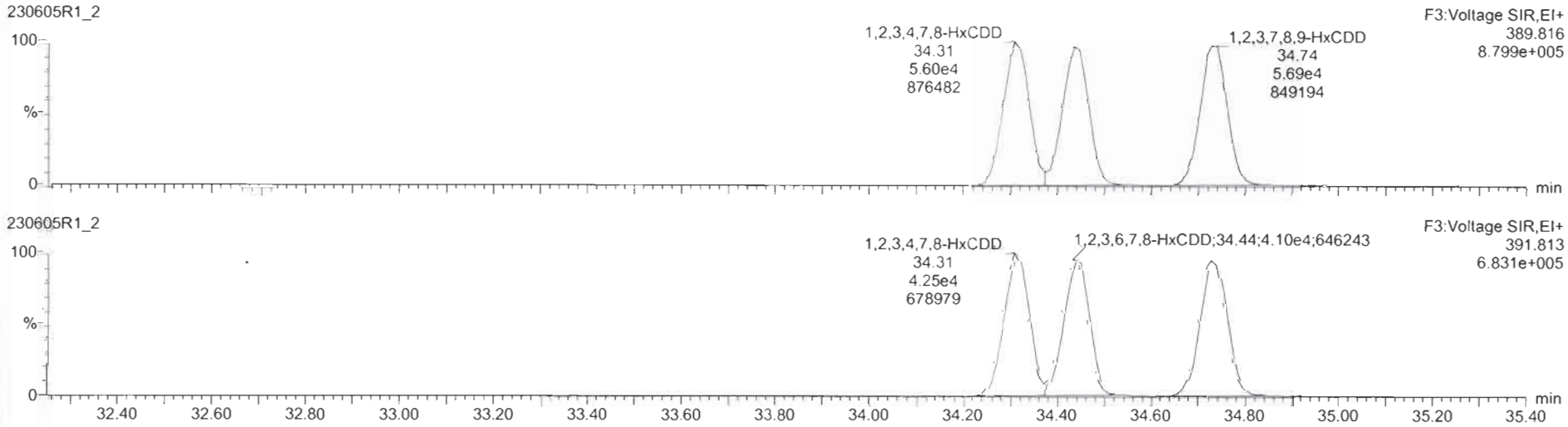
Enthalpy Analytical EDH VG-12

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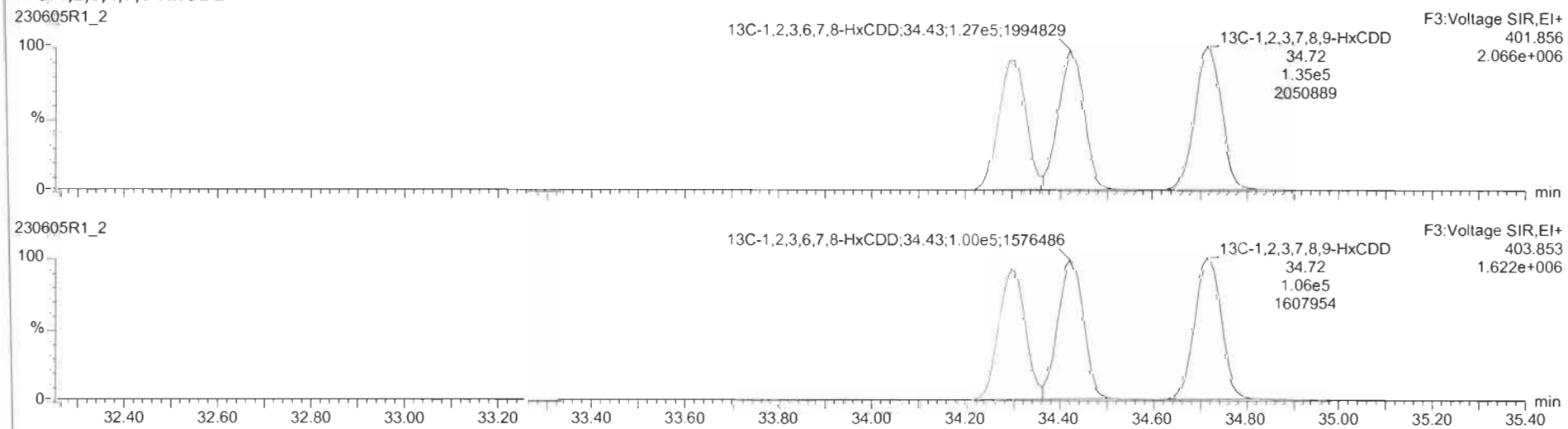
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Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR

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



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

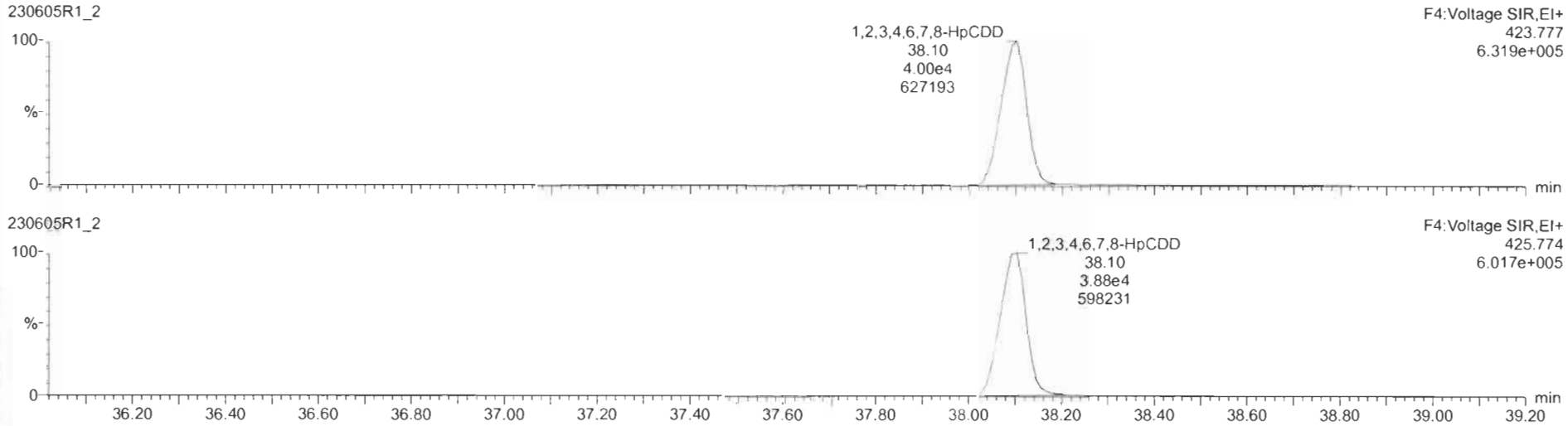


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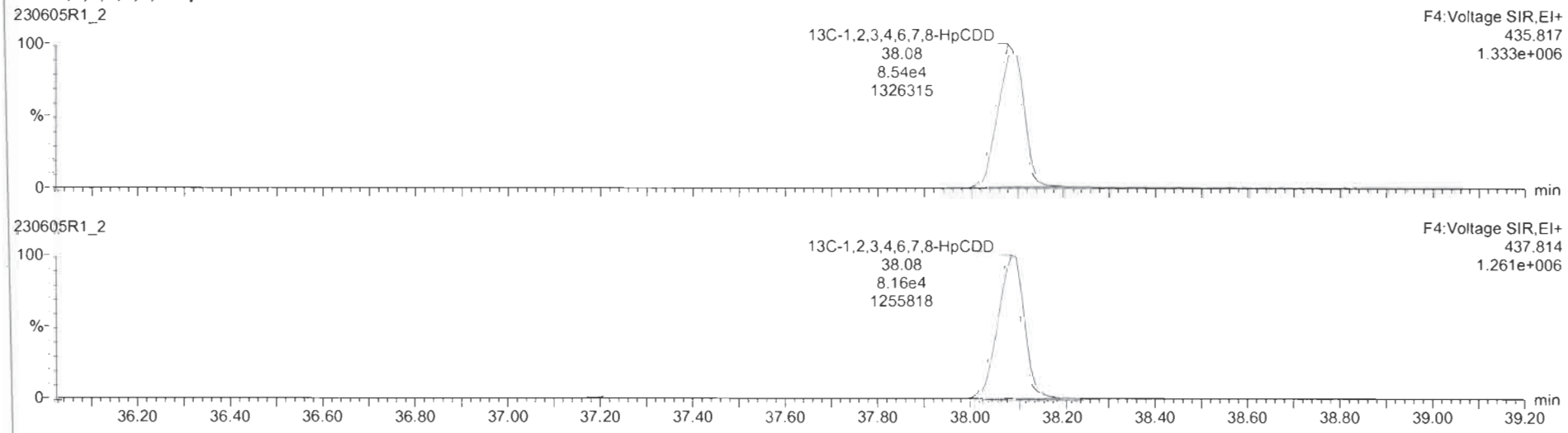
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Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR

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



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

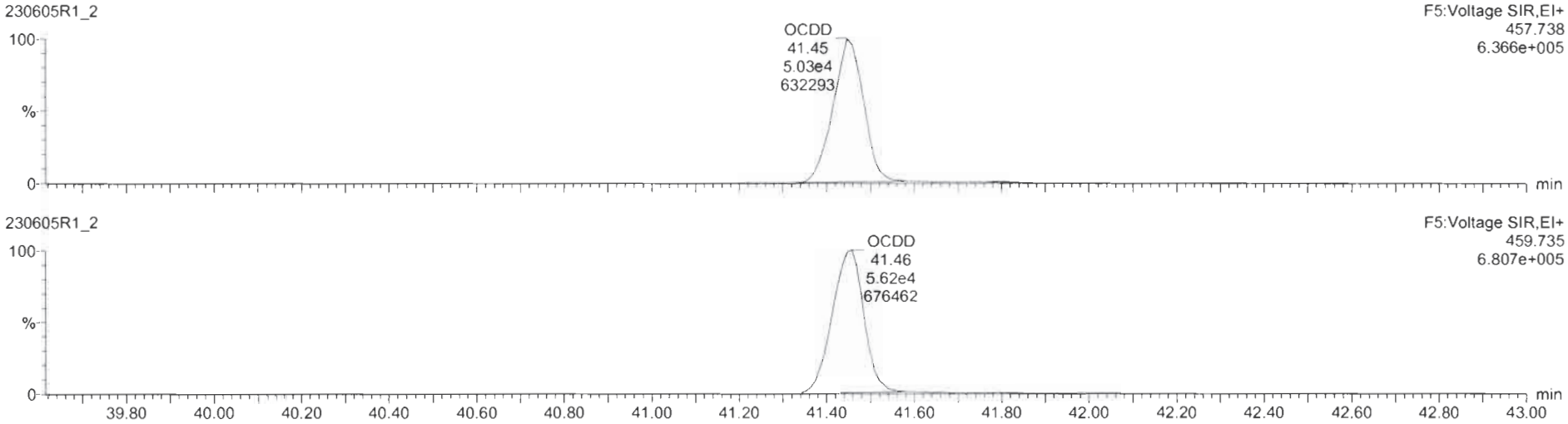


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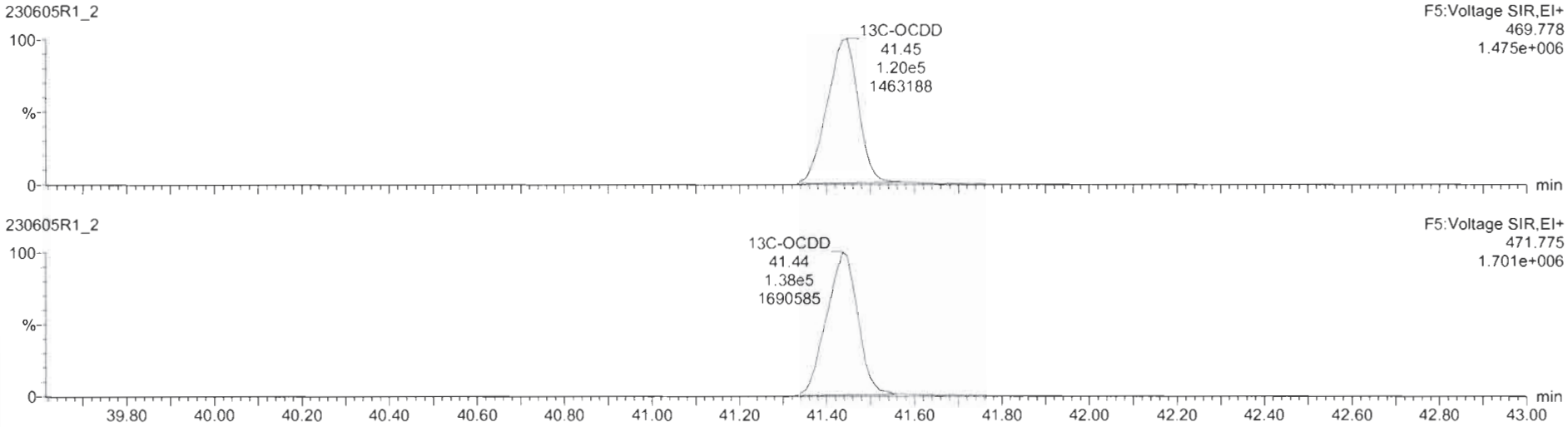
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Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR

OCDD



13C-OCDD

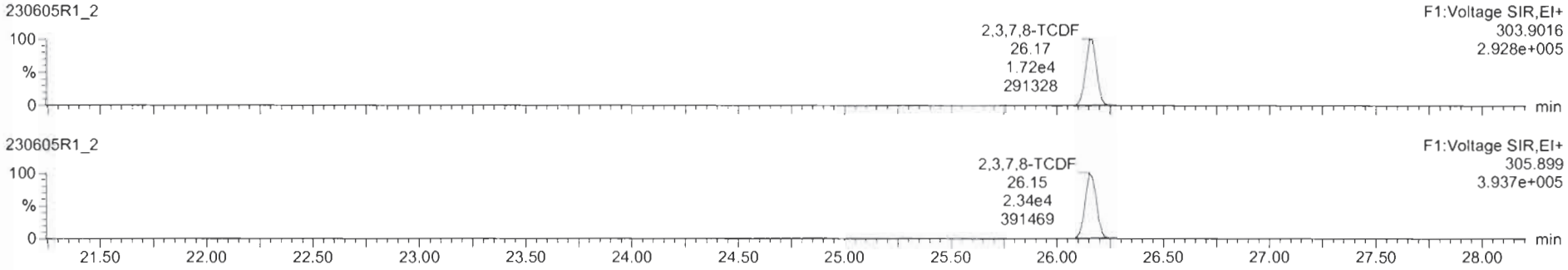


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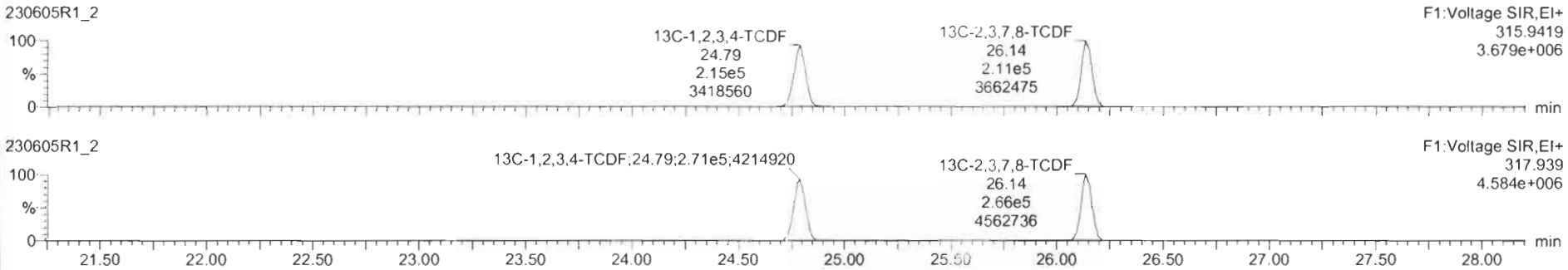
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Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR

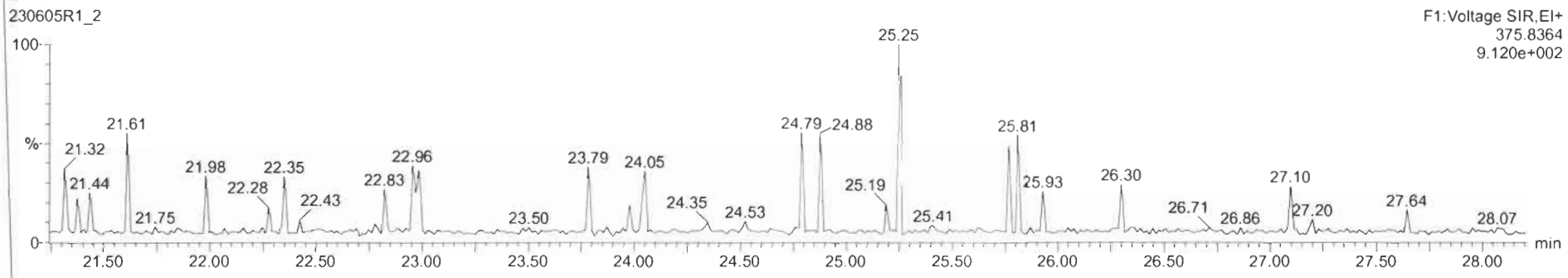
2,3,7,8-TCDF



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



DPE1

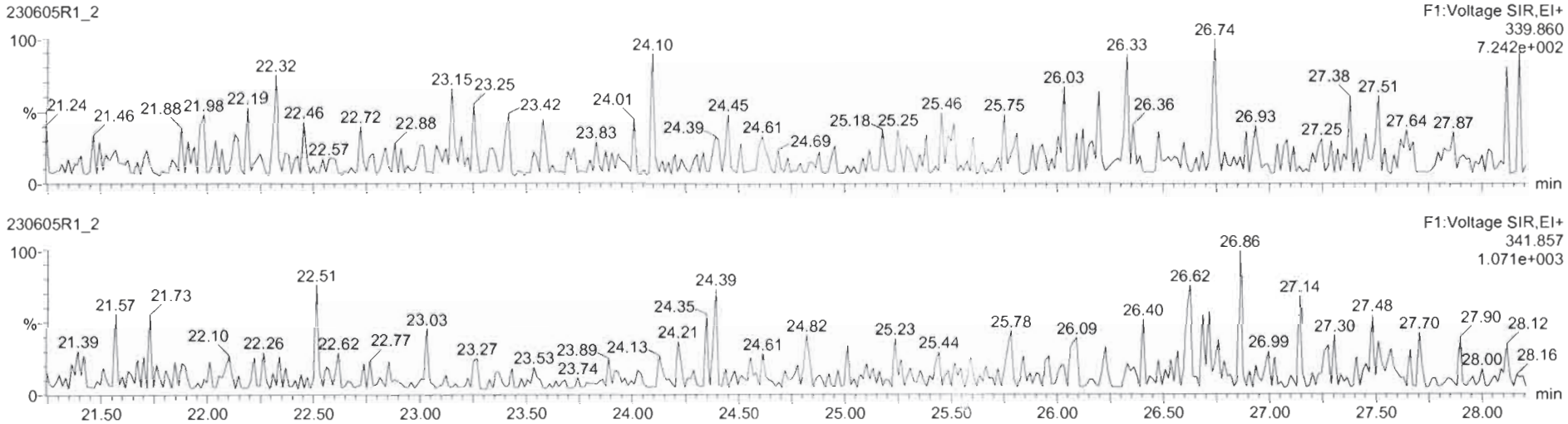


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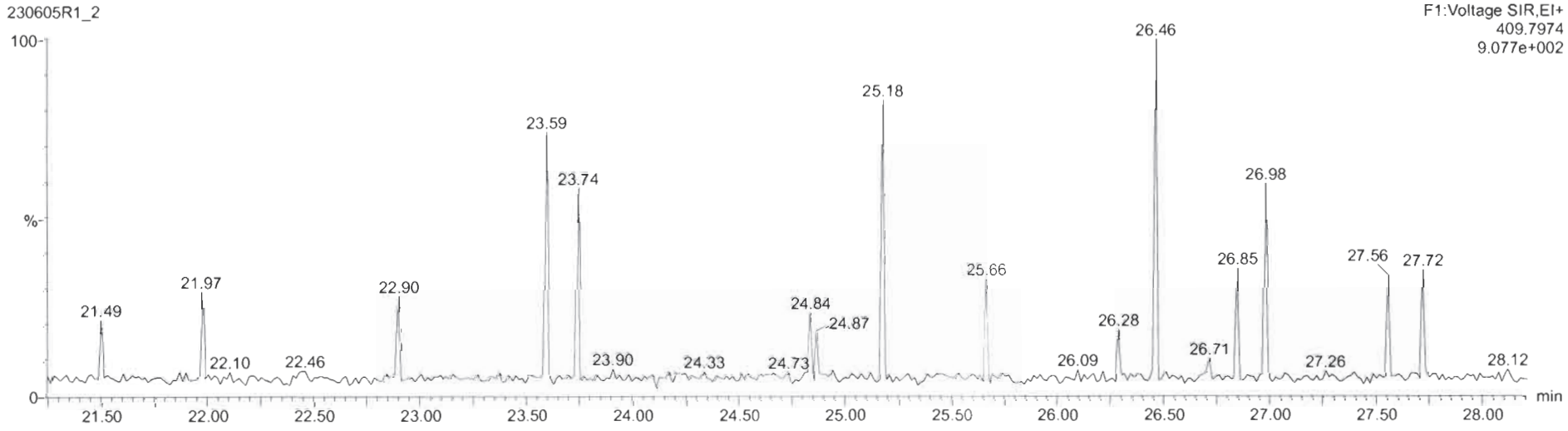
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Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR

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DPE6

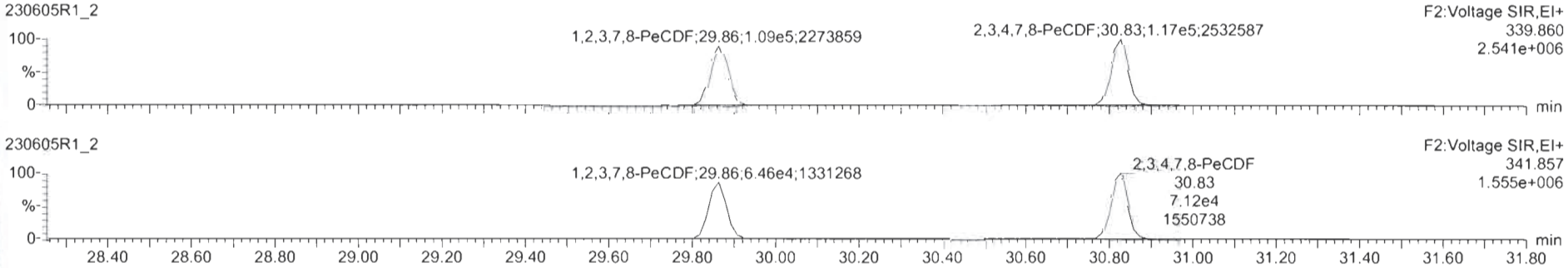


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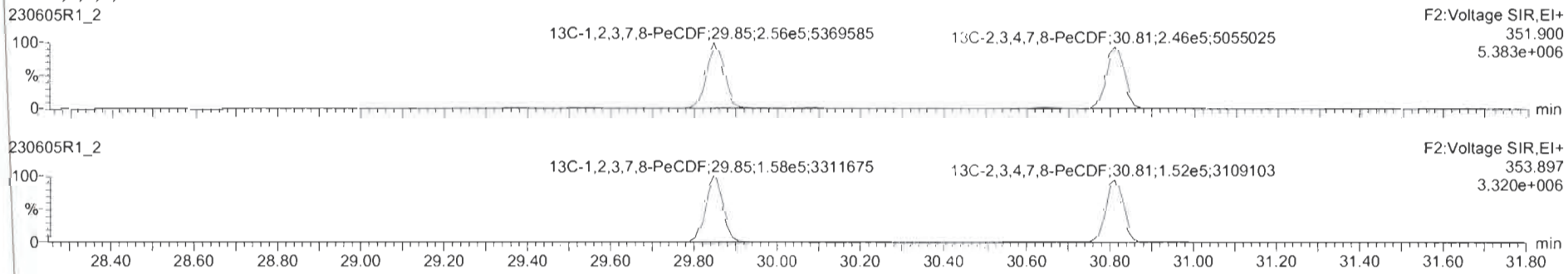
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Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR

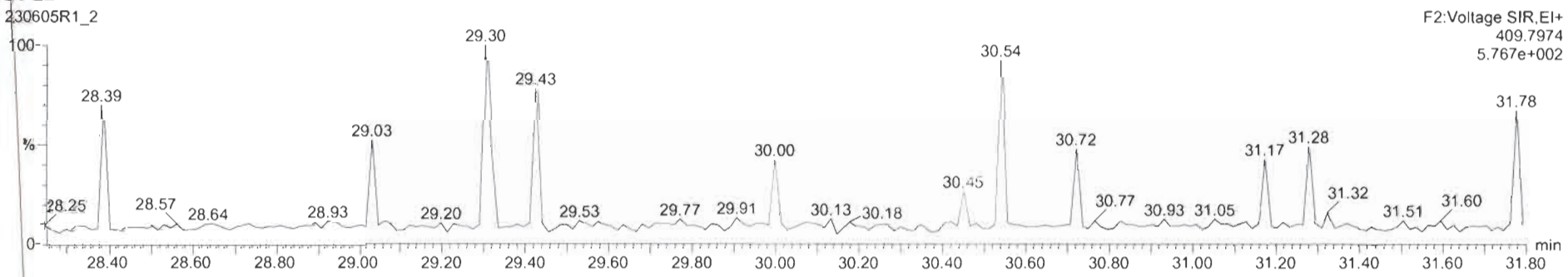
1,2,3,7,8-PeCDF



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



DPE2

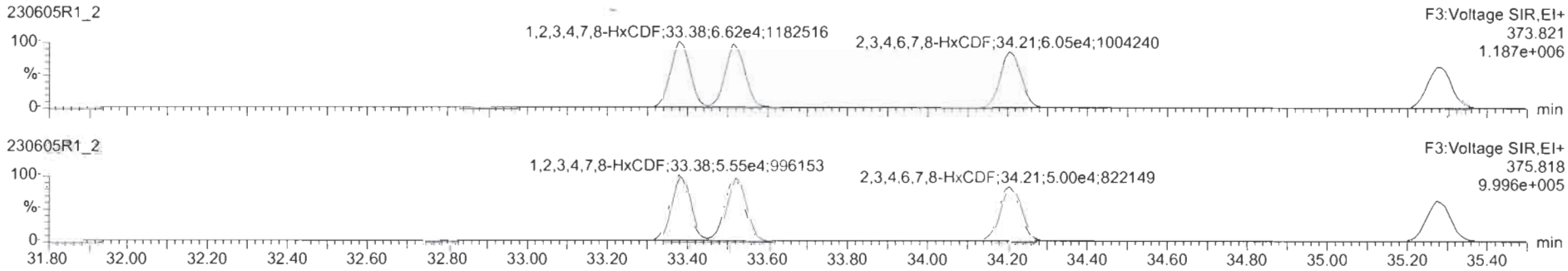


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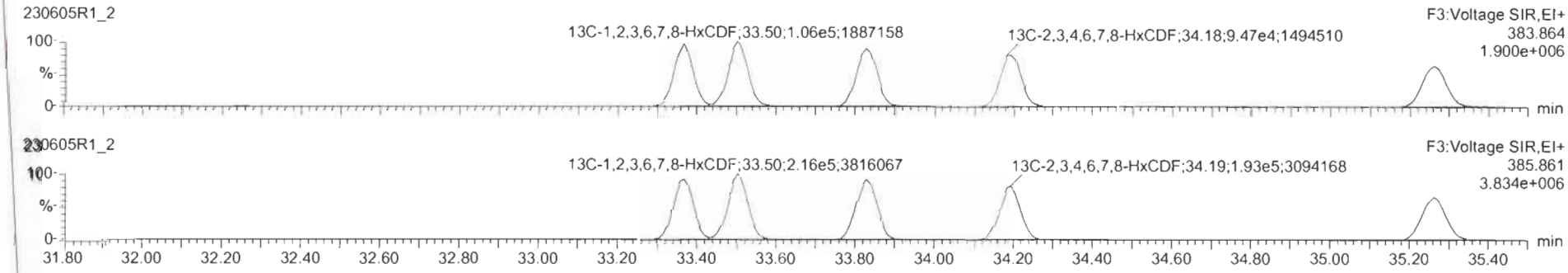
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Name: 230605R1_2, Date: 05-Jun-2023, Time: 11:09:13, ID: B23E152-BS1 OPR 10, Description: OPR

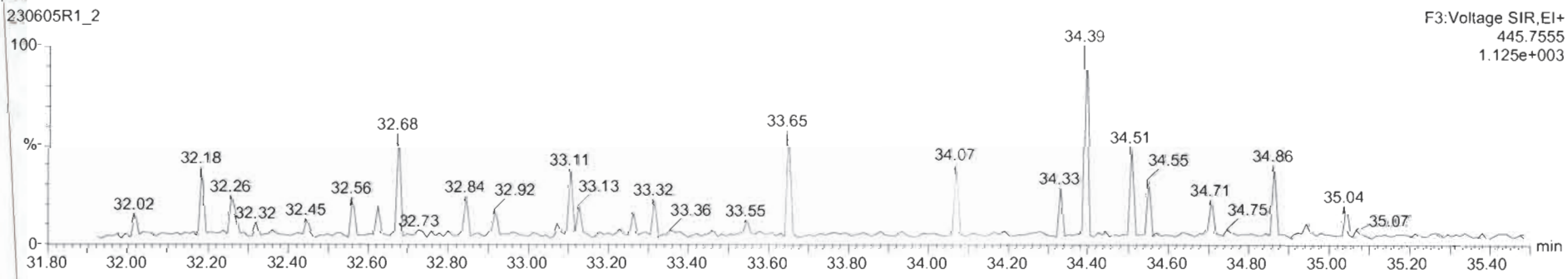
1,2,3,4,7,8-HxCDF



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



DPE3

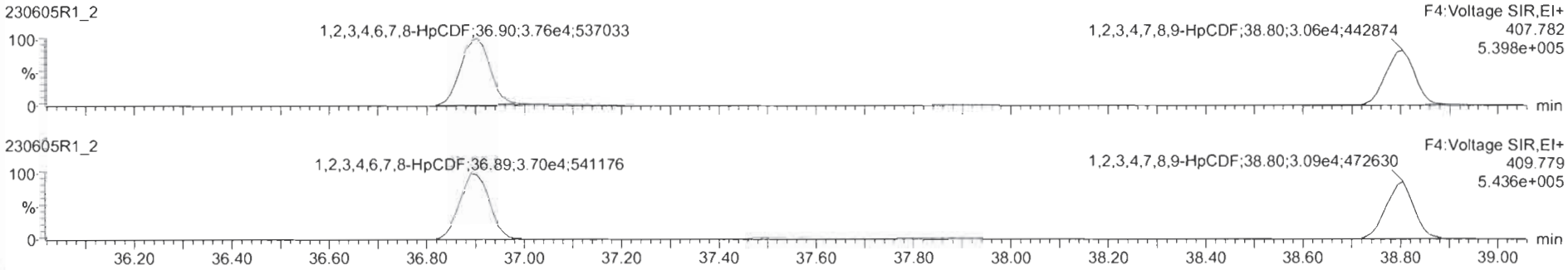


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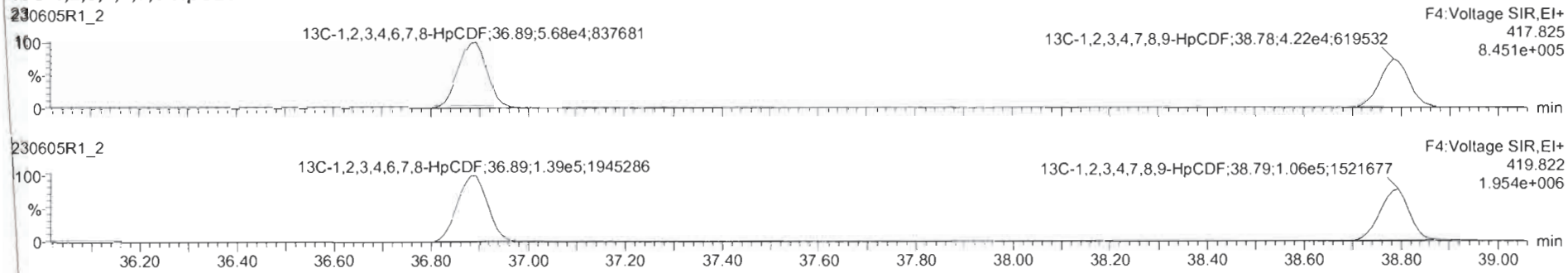
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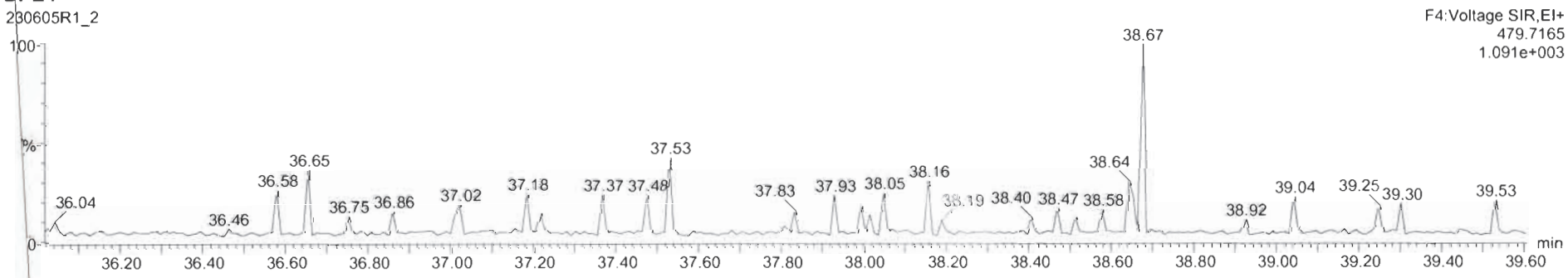
1,2,3,4,6,7,8-HpCDF



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



DPE4

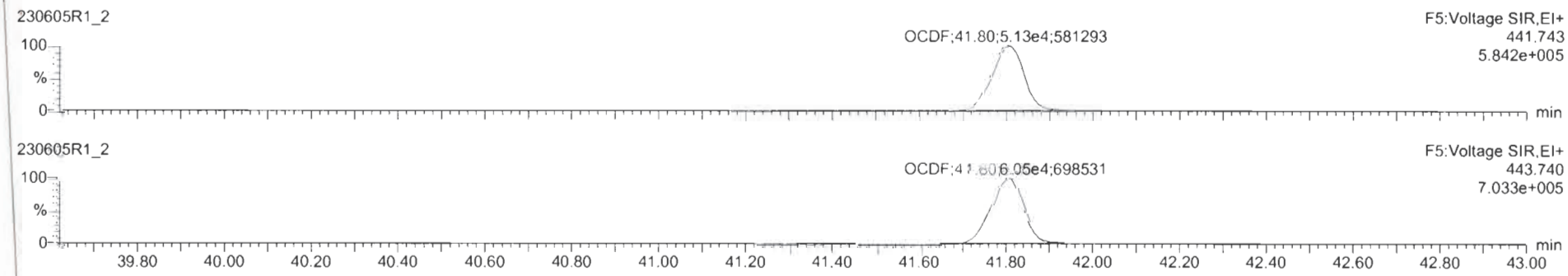


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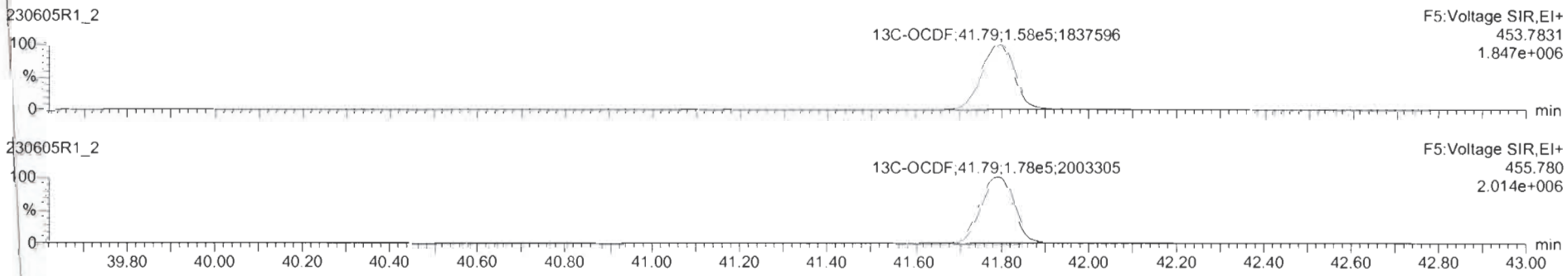
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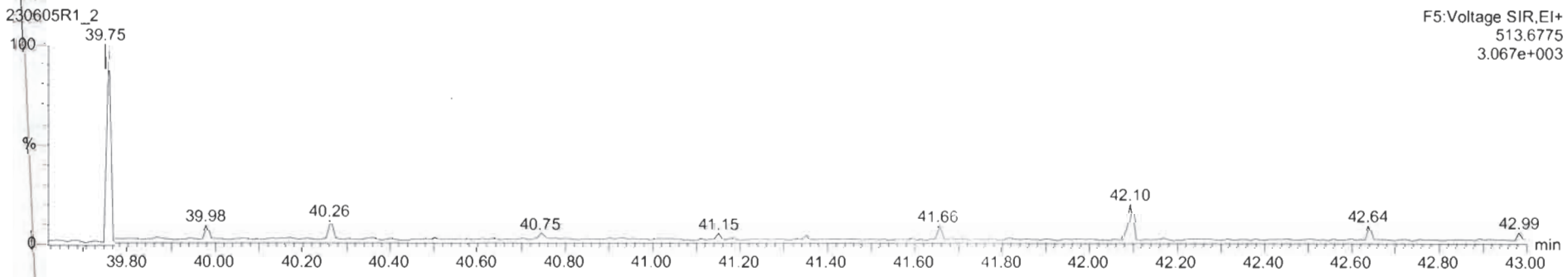
OCDF



13C-OCDF



DPE5

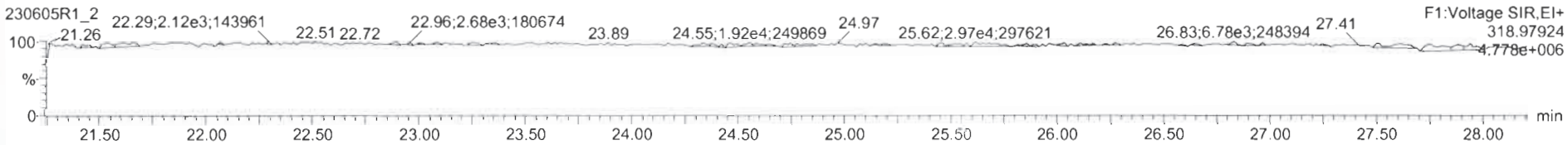


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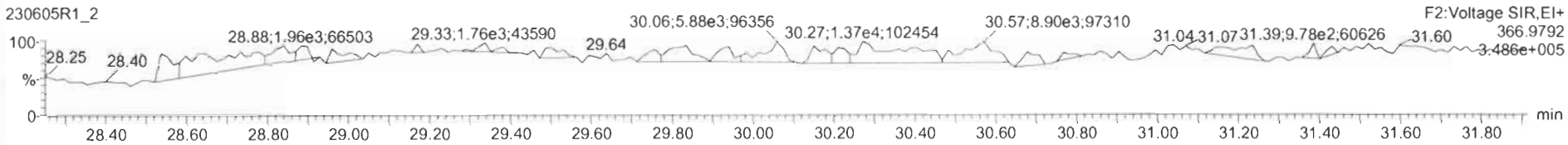
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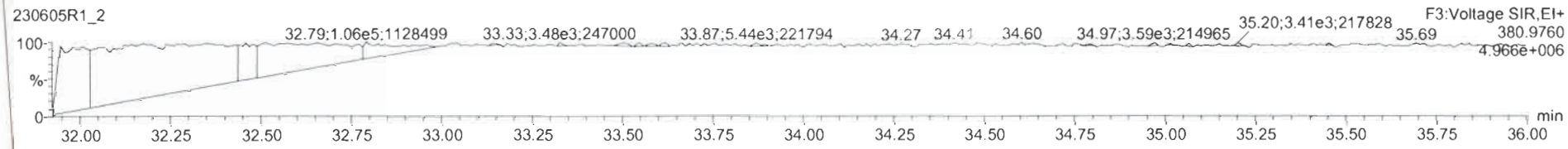
PFK1



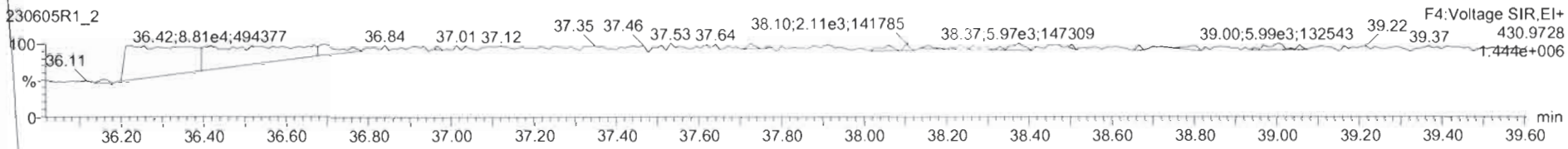
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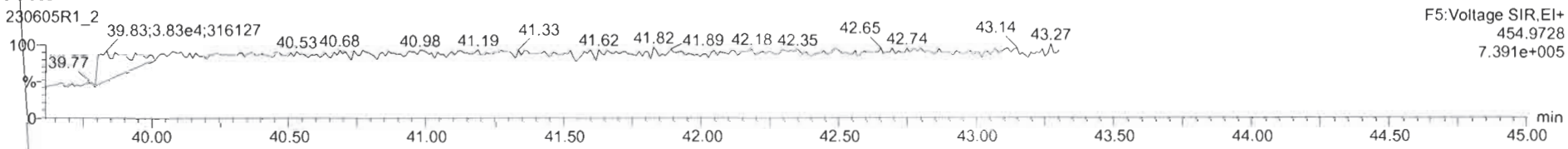
PFK3



PFK4



PFK5



Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230622R2\230622R2-4.qld

Last Altered: Friday, June 23, 2023 15:33:05 Pacific Daylight Time
Printed: Friday, June 23, 2023 15:46:21 Pacific Daylight Time

806/26/23

AIM 06/23/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-20-23.mdb 20 Jun 2023 11:15:18
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-21-23.cdb 22 Jun 2023 08:14:04

Name: 230622R2_4, Date: 22-Jun-2023, Time: 15:27:37, ID: B23F146-BLK1 Method Blank 5, Description: Method Blank, Task: ST230622R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.810	5.000					0.0999	
2	1,2,3,7,8-PeCDD			NO	0.688	5.000					0.163	
3	1,2,3,4,7,8-HxCDD			NO	0.772	5.000					0.170	
4	1,2,3,6,7,8-HxCDD			NO	0.715	5.000					0.189	
5	1,2,3,7,8,9-HxCDD			NO	0.719	5.000					0.197	
6	1,2,3,4,6,7,8-HpCDD			NO	0.745	5.000					0.222	
7	OCDD	7.52e1	1.07	YES	0.706	5.000	41.35	1.001	~~0.21008~~		~~0.538~~	0.192
8	2,3,7,8-TCDF			NO	0.684	5.000					0.101	
9	1,2,3,7,8-PeCDF			NO	0.698	5.000					0.129	
10	2,3,4,7,8-PeCDF			NO	0.775	5.000					0.108	
11	1,2,3,4,7,8-HxCDF			NO	0.785	5.000					0.0984	
12	1,2,3,6,7,8-HxCDF			NO	0.748	5.000					0.0961	
13	2,3,4,6,7,8-HxCDF			NO	0.770	5.000					0.109	
14	1,2,3,7,8,9-HxCDF			NO	0.766	5.000					0.150	
15	1,2,3,4,6,7,8-HpCDF			NO	0.834	5.000					0.0890	
16	1,2,3,4,7,8,9-HpCDF			NO	0.863	5.000					0.118	
17	OCDF			NO	0.651	5.000					0.337	
18	13C-2,3,7,8-TCDD	7.10e5	0.76	NO	1.10	5.000	26.61	1.027	433.63	108	0.539	
19	13C-1,2,3,7,8-PeCDD	4.66e5	0.61	NO	0.864	5.000	30.90	1.192	363.44	90.9	0.616	
20	13C-1,2,3,4,7,8-HxCDD	3.50e5	1.26	NO	0.834	5.000	34.20	1.014	341.62	85.4	1.07	
21	13C-1,2,3,6,7,8-HxCDD	3.92e5	1.23	NO	0.916	5.000	34.33	1.017	348.15	87.0	0.970	
22	13C-1,2,3,7,8,9-HxCDD	3.95e5	1.25	NO	0.930	5.000	34.62	1.026	345.63	86.4	0.956	
23	13C-1,2,3,4,6,7,8-HpCDD	2.63e5	1.06	NO	0.675	5.000	38.00	1.126	317.01	79.3	1.22	
24	13C-OCDD	4.05e5	0.89	NO	0.568	5.000	41.32	1.225	581.06	72.6	1.41	
25	13C-2,3,7,8-TCDF	7.62e5	0.76	NO	1.06	5.000	26.00	1.003	355.41	88.9	0.666	
26	13C-1,2,3,7,8-PeCDF	6.57e5	1.59	NO	0.873	5.000	29.75	1.148	373.46	93.4	1.38	
27	13C-2,3,4,7,8-PeCDF	6.42e5	1.58	NO	0.866	5.000	30.72	1.186	367.72	91.9	1.39	
28	13C-1,2,3,4,7,8-HxCDF	3.99e5	0.49	NO	0.987	5.000	33.28	0.986	329.29	82.3	1.29	
29	13C-1,2,3,6,7,8-HxCDF	4.71e5	0.47	NO	1.06	5.000	33.42	0.990	362.58	90.6	1.20	
30	13C-2,3,4,6,7,8-HxCDF	4.09e5	0.49	NO	0.950	5.000	34.11	1.011	350.18	87.5	1.34	

Dataset: I:\VG12.PRO\Results\230622R2\230622R2-4.qld

Last Altered: Friday, June 23, 2023 15:33:05 Pacific Daylight Time
Printed: Friday, June 23, 2023 15:46:21 Pacific Daylight Time

Name: 230622R2_4, Date: 22-Jun-2023, Time: 15:27:37, ID: B23F146-BLK1 Method Blank 5, Description: Method Blank, Task: ST230622R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	3.42e5	0.49	NO	0.830	5.000	35.18	1.042	335.27	83.8	1.53	
32	13C-1,2,3,4,6,7,8-HpCDF	2.89e5	0.40	NO	0.683	5.000	36.79	1.090	344.78	86.2	1.84	
33	13C-1,2,3,4,7,8,9-HpCDF	2.07e5	0.38	NO	0.544	5.000	38.69	1.147	310.53	77.6	2.31	
34	13C-OCDF	4.48e5	0.90	NO	0.646	5.000	41.67	1.235	564.11	70.5	1.48	
35	37Cl-2,3,7,8-TCDD	2.55e5			0.905	5.000	26.62	1.027	190.30	119	0.139	
36	13C-1,2,3,4-TCDD	5.93e5	0.76	NO	1.00	5.000	25.91	1.000	400.00	100	0.595	
37	13C-1,2,3,4-TCDF	8.06e5	0.76	NO	1.00	5.000	24.61	1.000	400.00	100	0.708	
38	13C-1,2,3,4,6,9-HxCDF	4.91e5	0.49	NO	1.00	5.000	33.74	1.000	400.00	100	1.27	
39	Total Tetra-Dioxins				0.810	5.000					0.0623	
40	Total Penta-Dioxins				0.688	5.000					0.0641	
41	Total Hexa-Dioxins				0.715	5.000					0.110	
42	Total Hepta-Dioxins				0.745	5.000					0.123	
43	Total Tetra-Furans				0.684	5.000					0.0429	
44	1st Func. Penta-Furans				0.698	5.000					0.0381	
45	Total Penta-Furans				0.698	5.000					0.0633	
46	Total Hexa-Furans				0.770	5.000					0.0610	
47	Total Hepta-Furans				0.834	5.000					0.0476	

Quantify Totals Report MassLynx 4.1 SCN815
Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230622R2\230622R2-4.qld

Last Altered: Friday, June 23, 2023 15:33:05 Pacific Daylight Time
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Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-20-23.mdb 20 Jun 2023 11:15:18
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-21-23.cdb 22 Jun 2023 08:14:04

Name: 230622R2_4, Date: 22-Jun-2023, Time: 15:27:37, ID: B23F146-BLK1 Method Blank 5, Description: Method Blank, Task: ST230622R2_1

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: I:\VG12.PRO\Results\230622R2\230622R2-4.qld

Last Altered: Friday, June 23, 2023 15:33:05 Pacific Daylight Time
Printed: Friday, June 23, 2023 15:46:21 Pacific Daylight Time

Name: 230622R2_4, Date: 22-Jun-2023, Time: 15:27:37, ID: B23F146-BLK1 Method Blank 5, Description: Method Blank, Task: ST230622R2_1

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

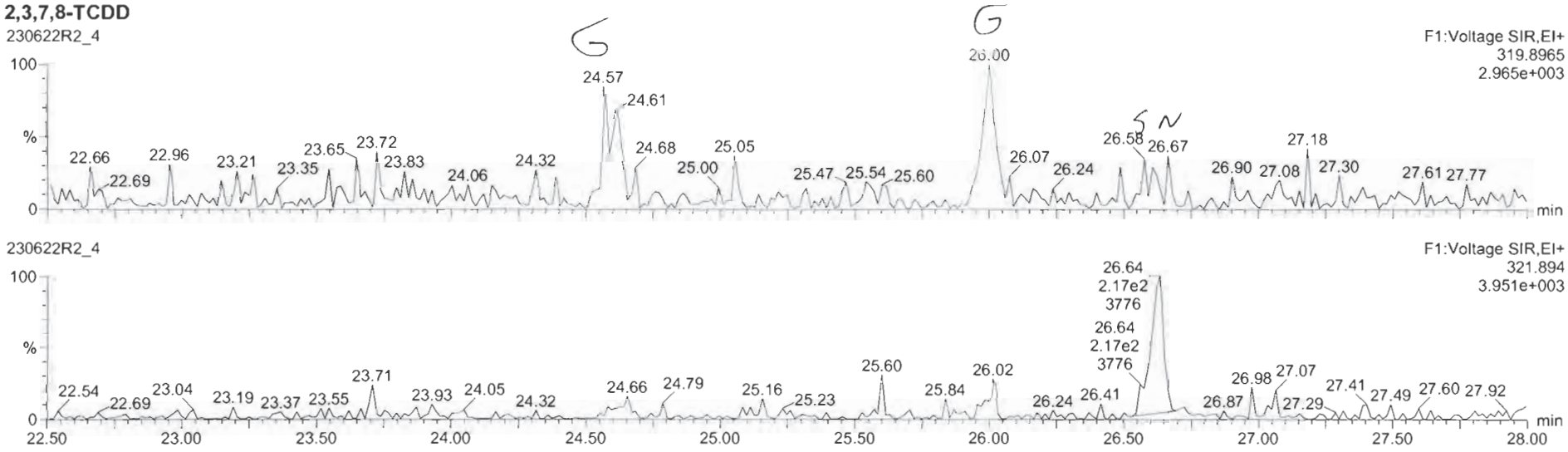
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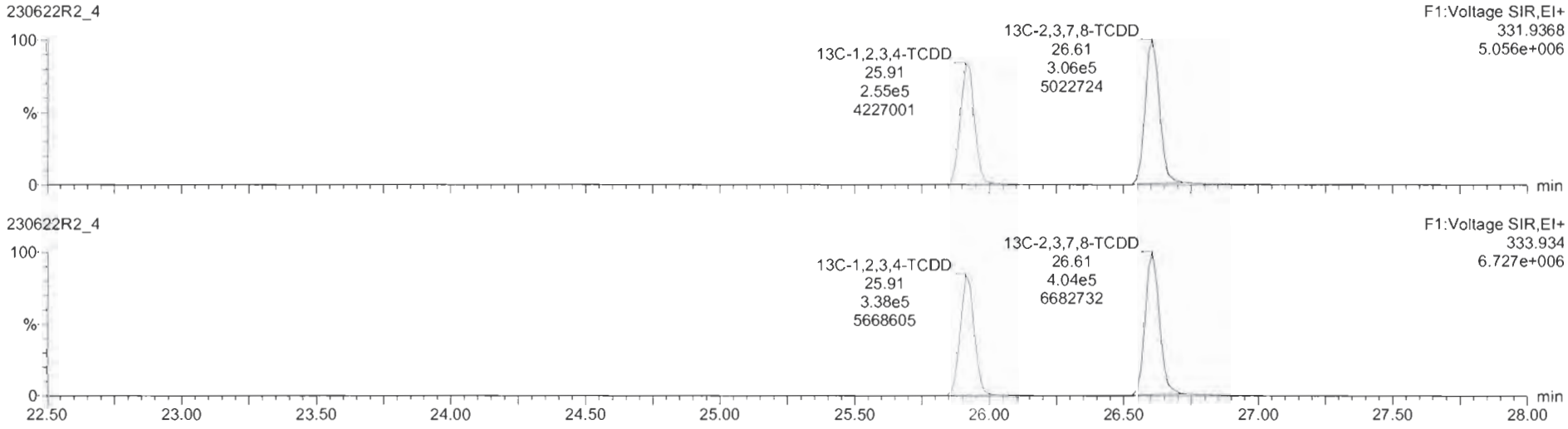
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2,3,7,8-TCDD



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

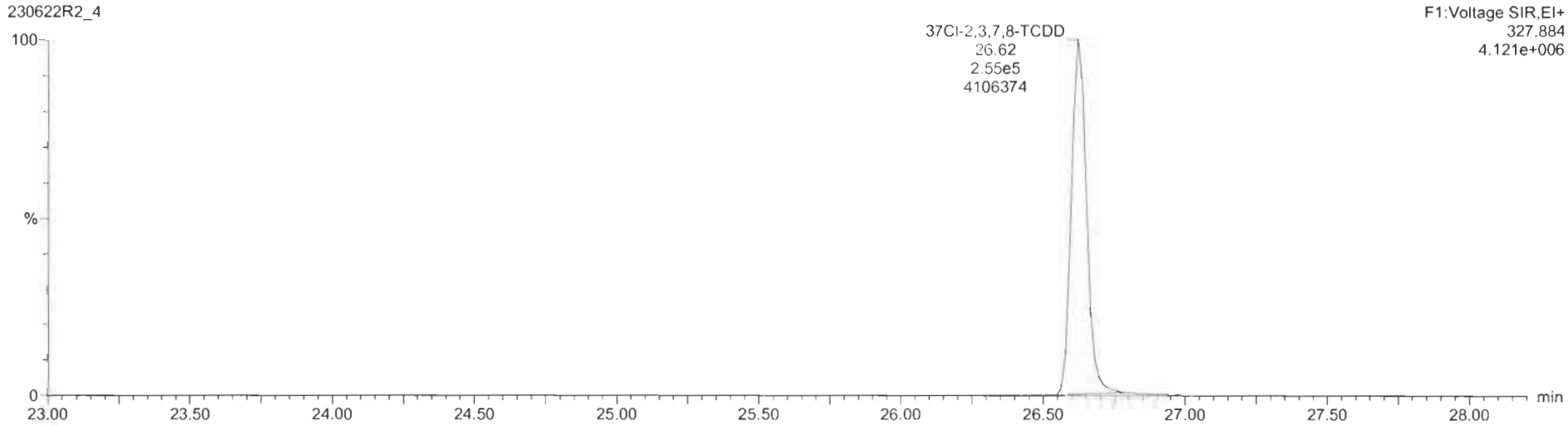


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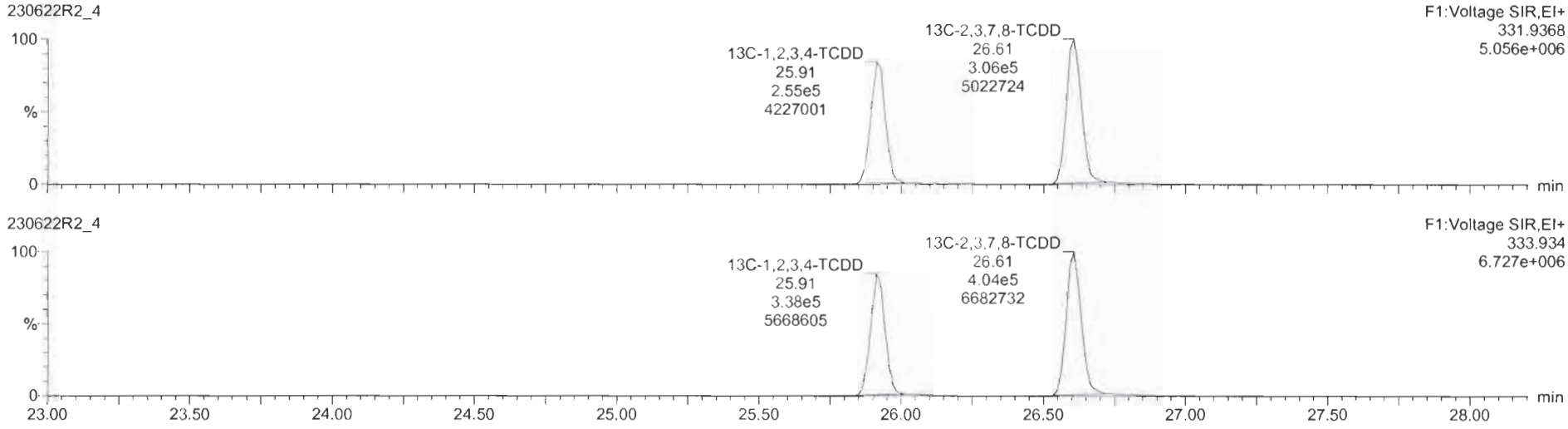
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Name: 230622R2_4, Date: 22-Jun-2023, Time: 15:27:37, ID: B23F146-BLK1 Method Blank 5, Description: Method Blank

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



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

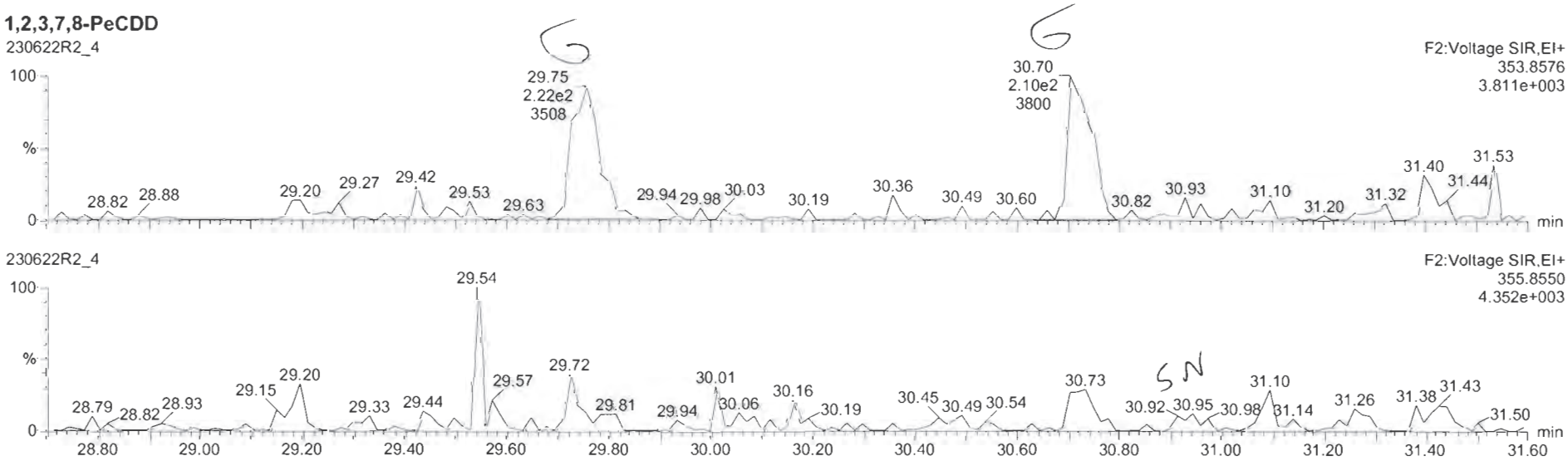


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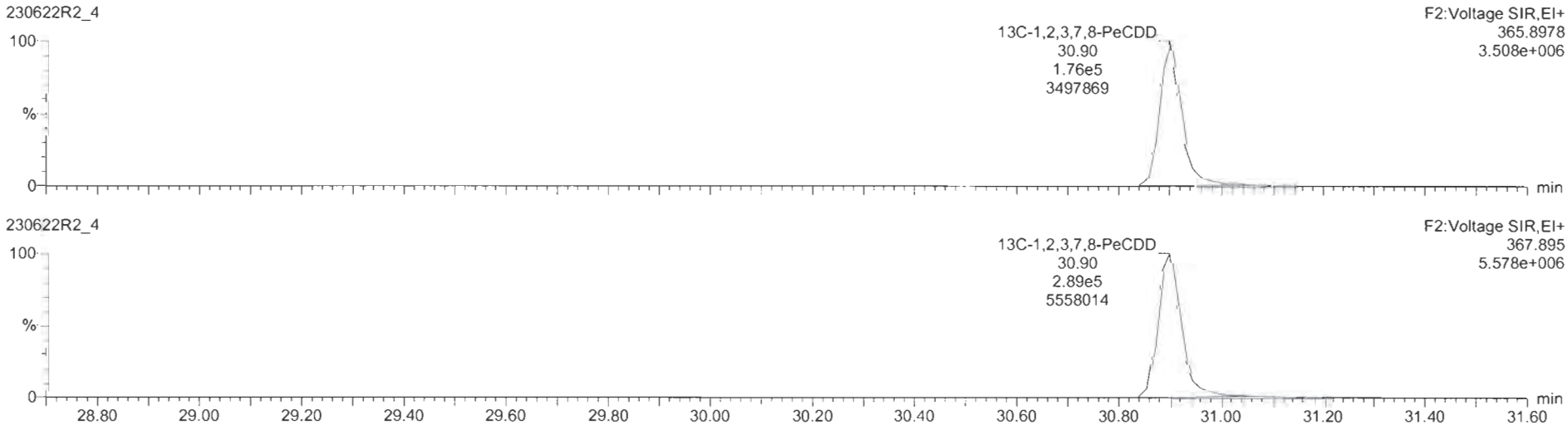
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Name: 230622R2_4, Date: 22-Jun-2023, Time: 15:27:37, ID: B23F146-BLK1 Method Blank 5, Description: Method Blank

1,2,3,7,8-PeCDD



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

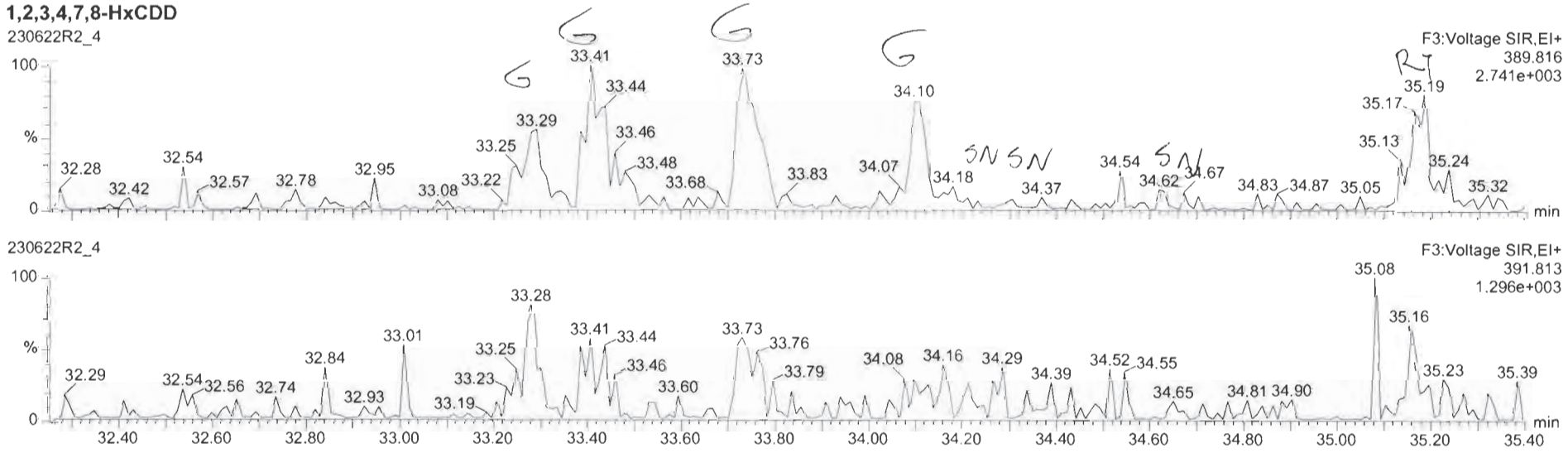


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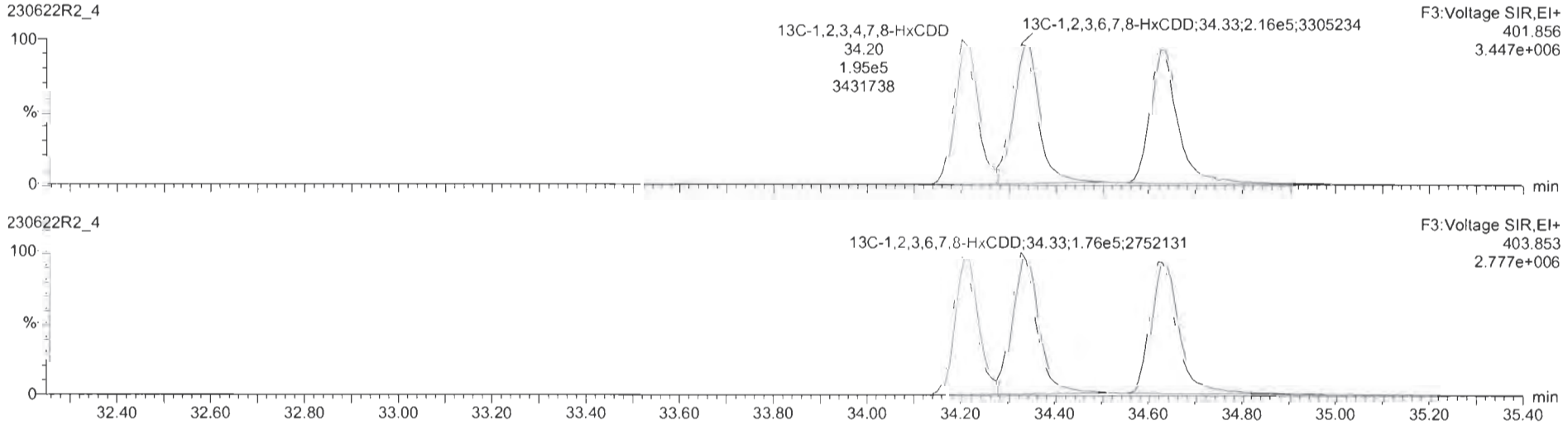
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1,2,3,4,7,8-HxCDD



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

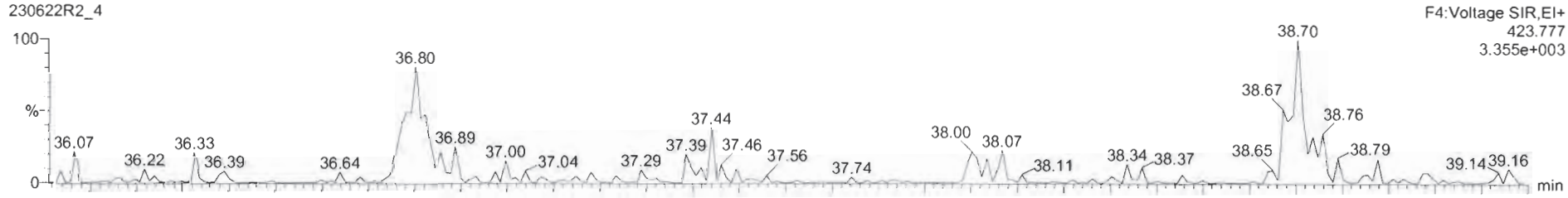


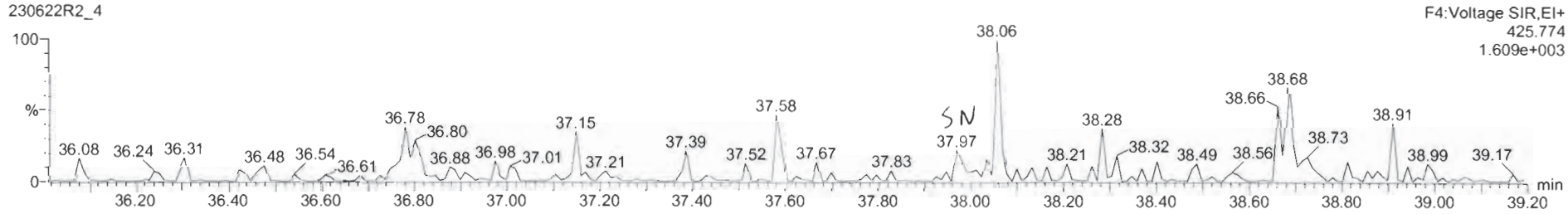
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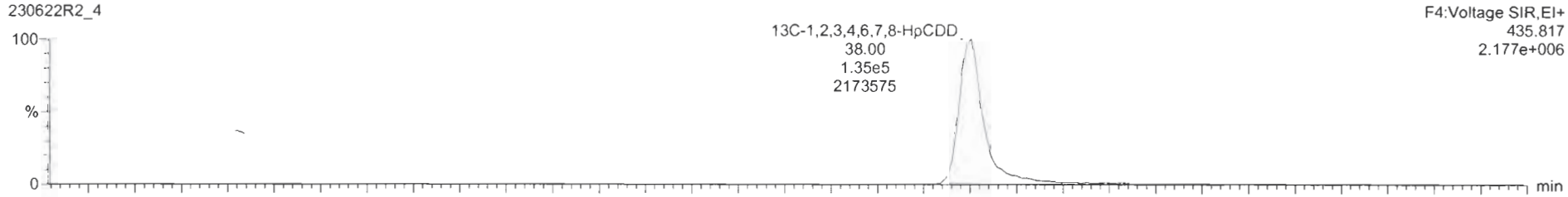
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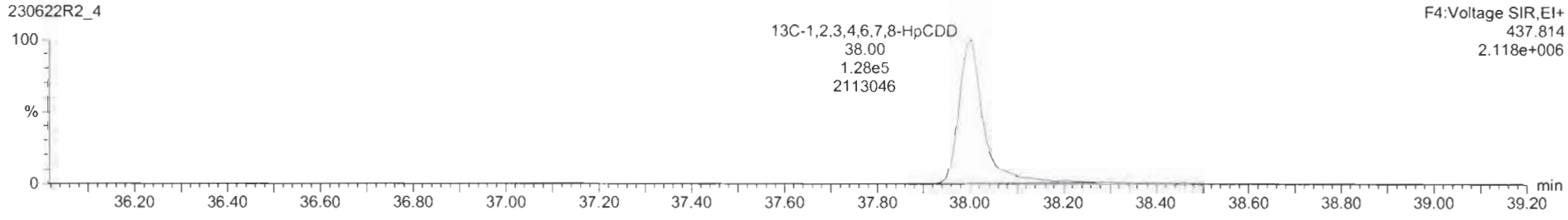
1,2,3,4,6,7,8-HpCDD





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



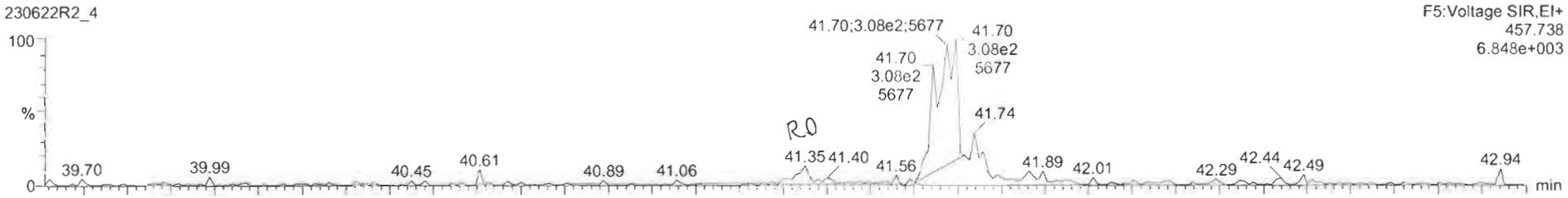


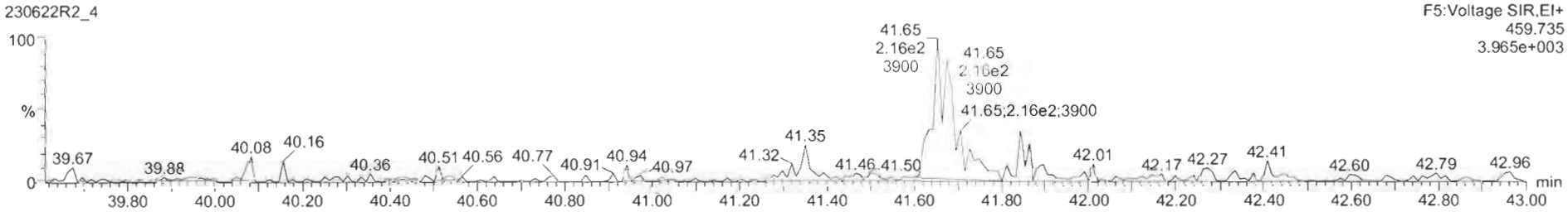
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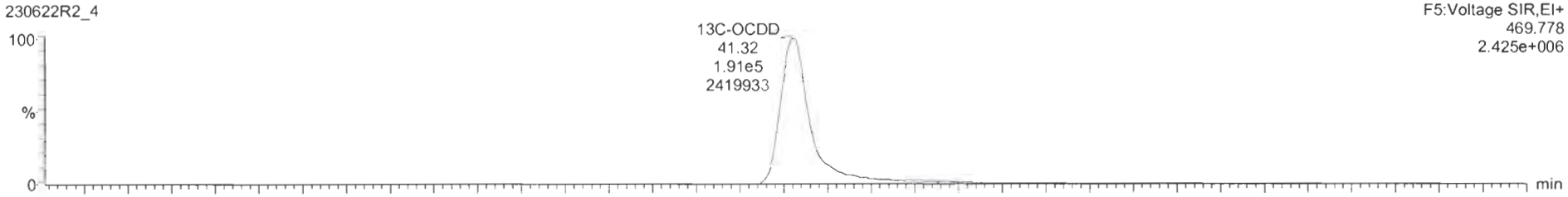
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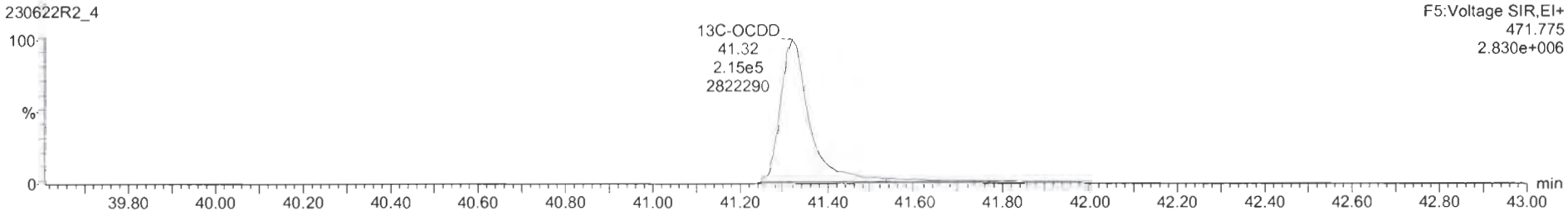
OCDD

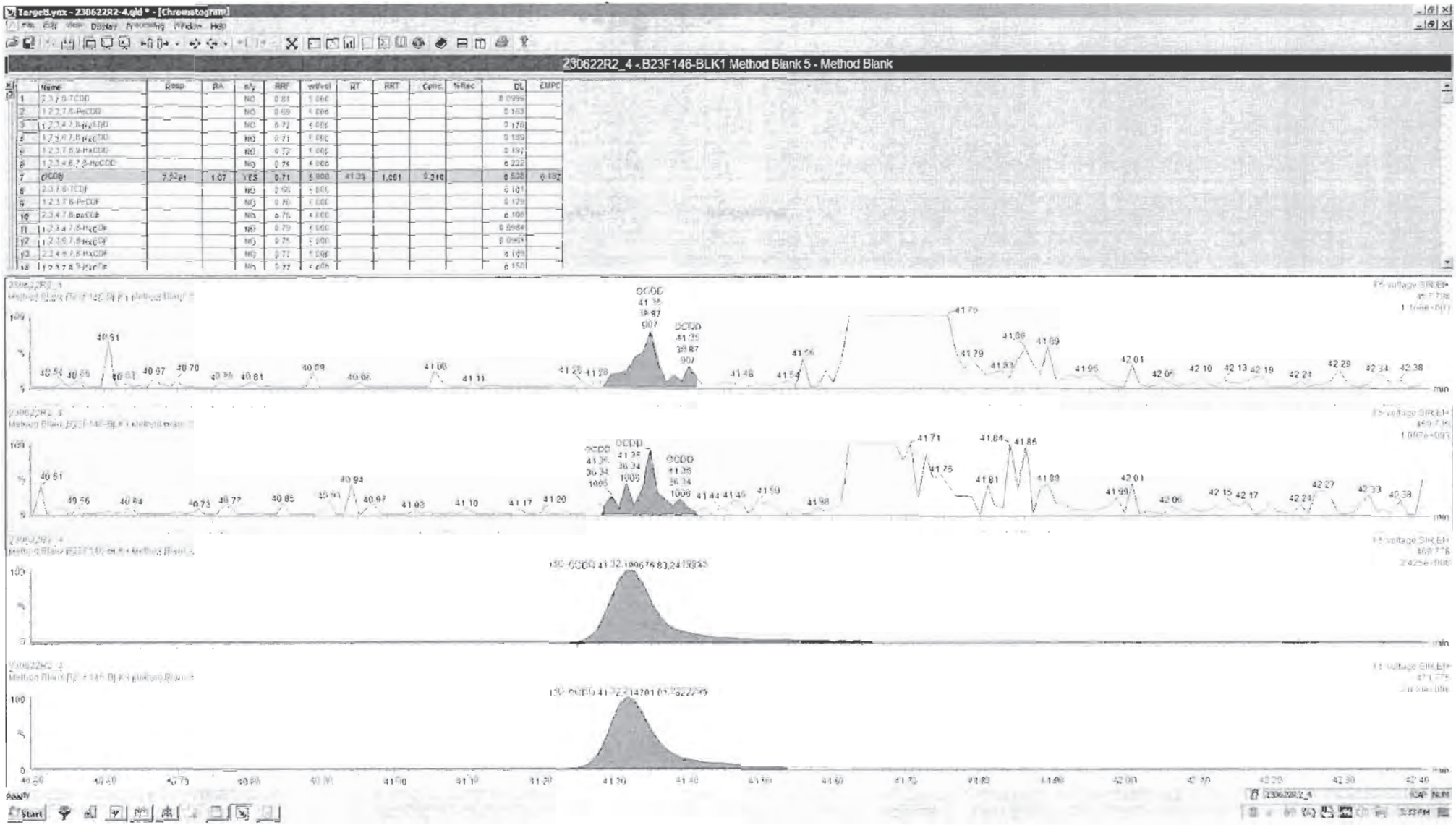




13C-OCDD





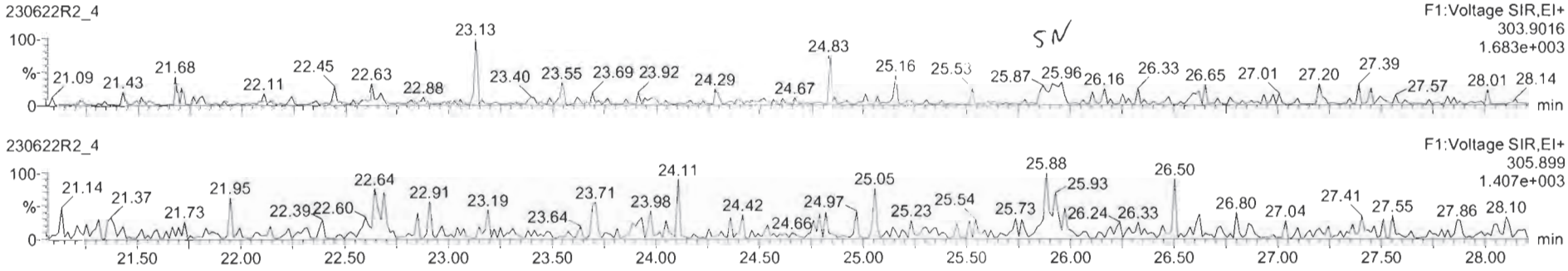

TargetLynx - 230622R2-4.qld * - [Chromatogram]
230622R2_4 - B23F146-BLK1 Method Blank 5 - Method Blank
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OCDD
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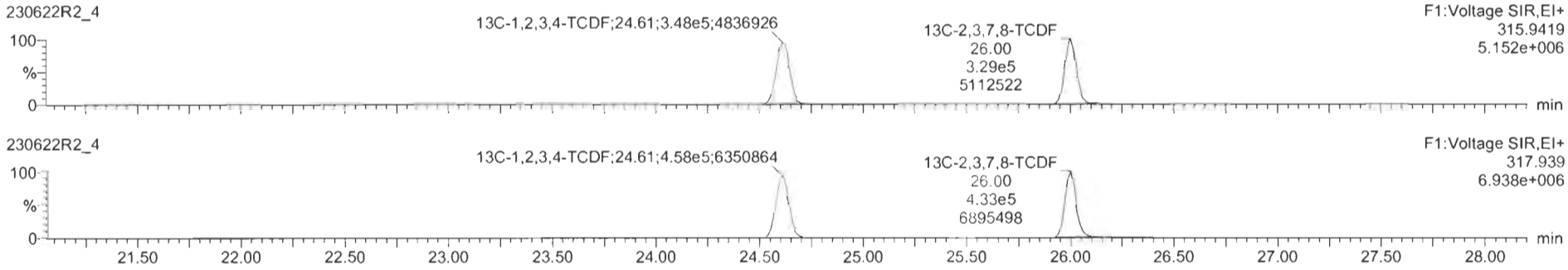
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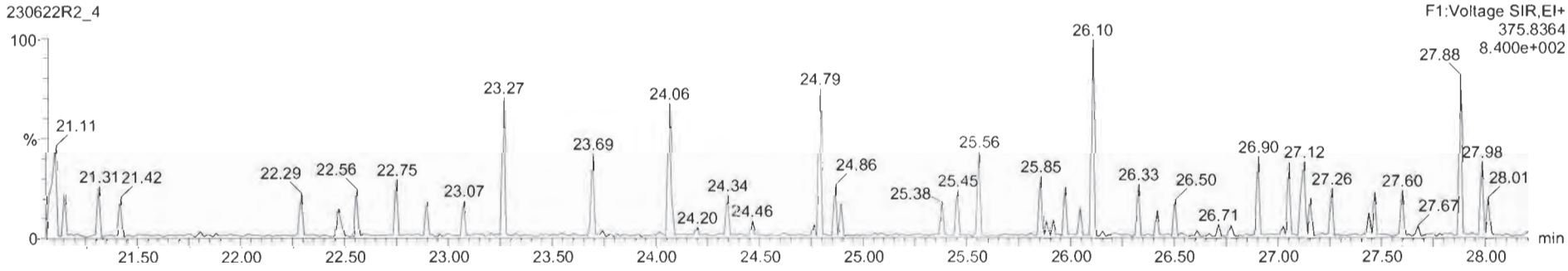
2,3,7,8-TCDF

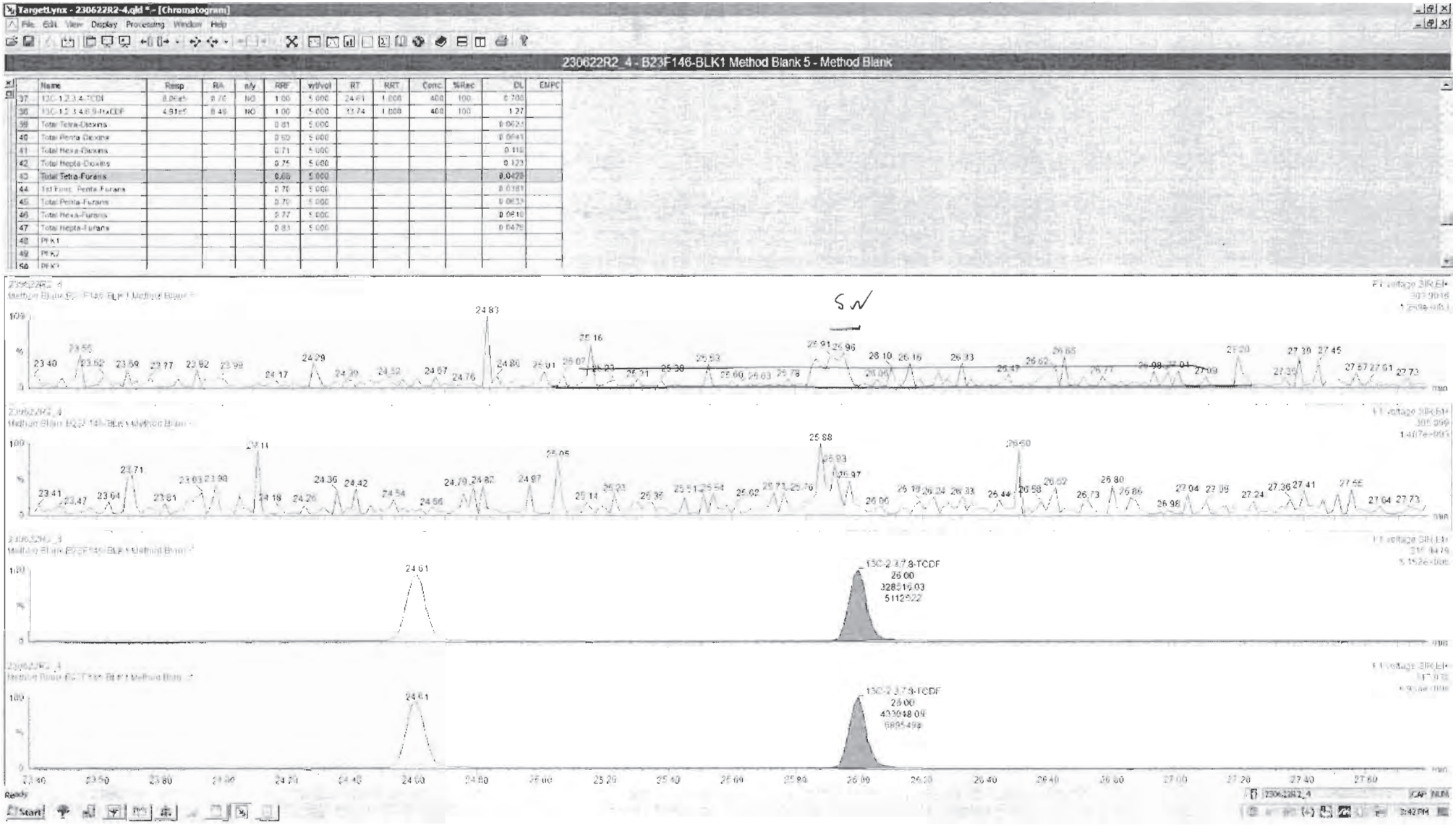


13C-2,3,7,8-TCDF



DPE1



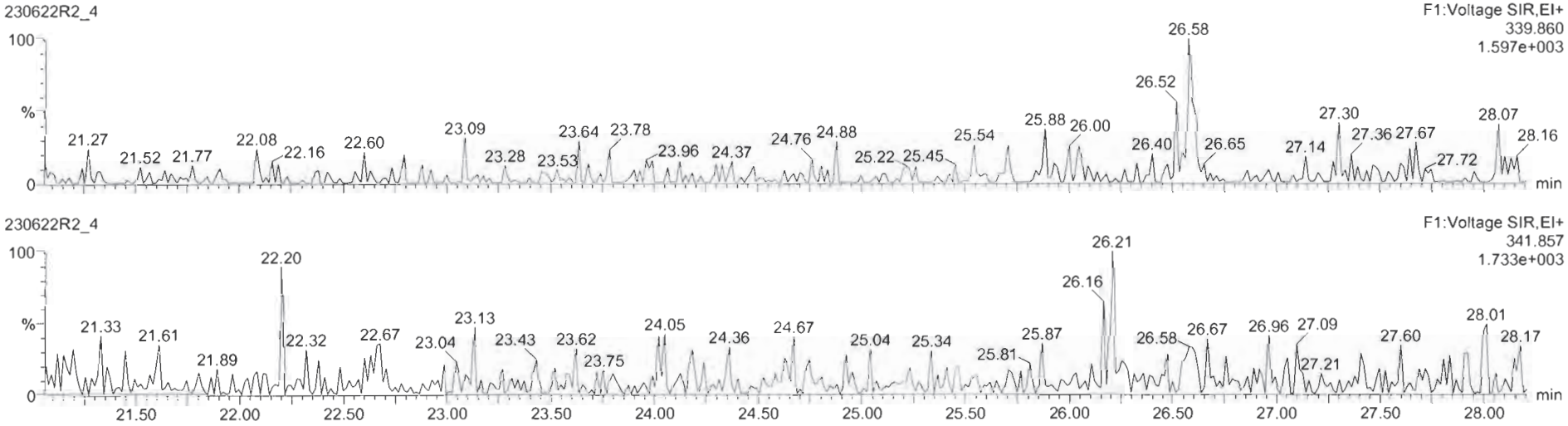

TargetLynx - 230622R2-4.qld * - [Chromatogram]
File Edit View Display Processing Window Help
230622R2_4 - B23F146-BLK1 Method Blank 5 - Method Blank
Name Resp RA n/y RRF v/v/vol RT RRT Conc %Rec DL EMPC
37 13C-1,2,3,4-TCDI 8.04e5 0.76 NO 1.00 5.000 24.61 1.000 400 100 0.708
38 13C-1,2,3,4,6,9-HxCDF 4.91e5 0.48 NO 1.00 5.000 33.74 1.000 400 100 1.27
39 Total Tetra-Dioxins 0.81 5.000 0.0025
40 Total Penta-Dioxins 0.59 5.000 0.0041
41 Total Hexa-Dioxins 0.71 5.000 0.110
42 Total Hepta-Dioxins 0.75 5.000 0.123
43 Total Tetra-Furans 0.66 5.000 0.0428
44 1st Func. Penta-Furans 0.76 5.000 0.0181
45 Total Penta-Furans 0.70 5.000 0.0633
46 Total Hexa-Furans 0.77 5.000 0.0810
47 Total Hepta-Furans 0.83 5.000 0.0479
48 PFK1
49 PFK2
50 PFK3
24.83
25.16
24.61
13C-2,3,7,8-TCDF
26.00
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13C-2,3,7,8-TCDF
26.00
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6885498
Ready
Start

Dataset: Untitled

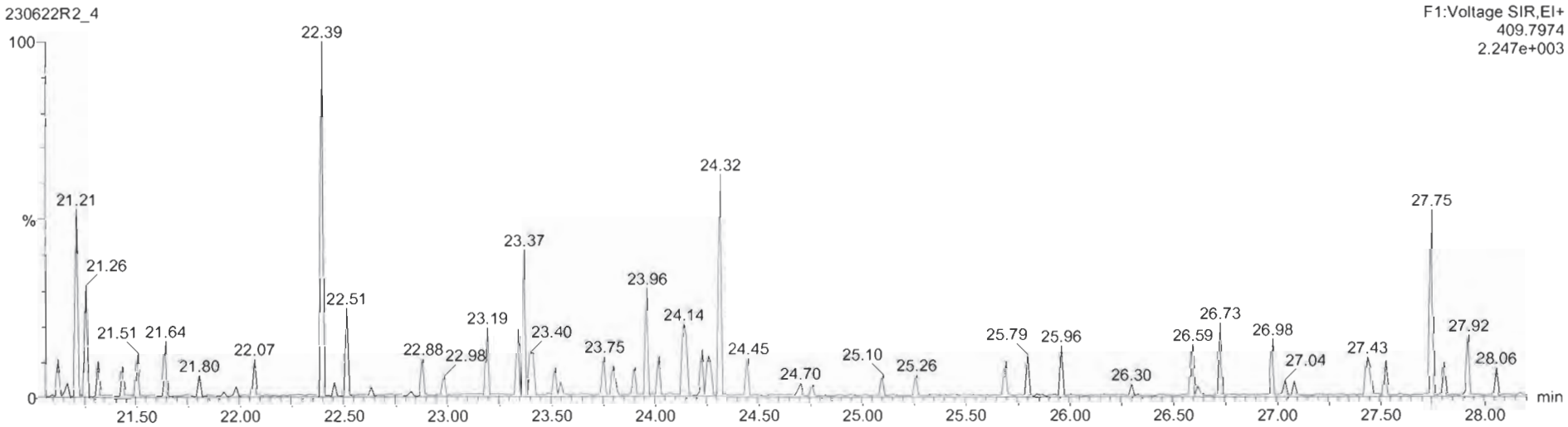
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Name: 230622R2_4, Date: 22-Jun-2023, Time: 15:27:37, ID: B23F146-BLK1 Method Blank 5, Description: Method Blank

1st Func. Penta-Furans



DPE6

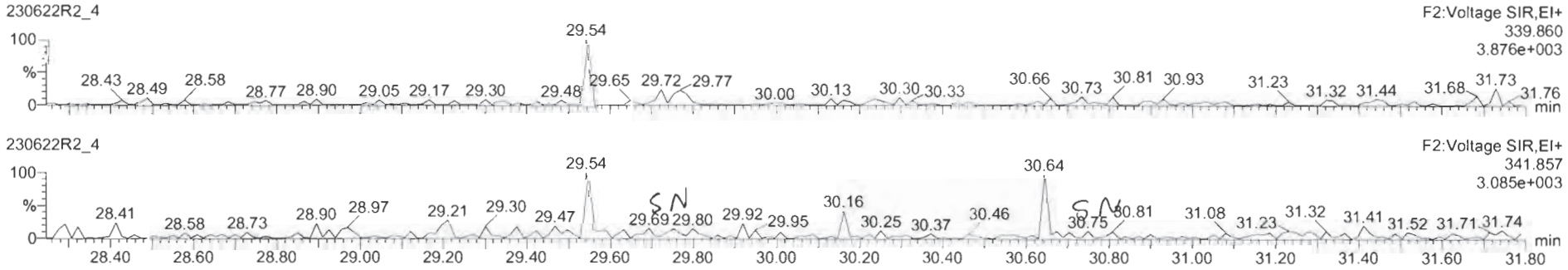


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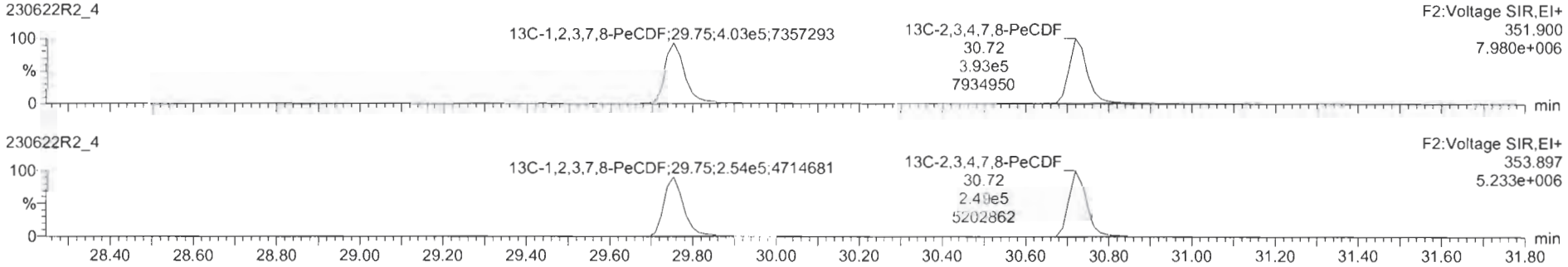
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Name: 230622R2_4, Date: 22-Jun-2023, Time: 15:27:37, ID: B23F146-BLK1 Method Blank 5, Description: Method Blank

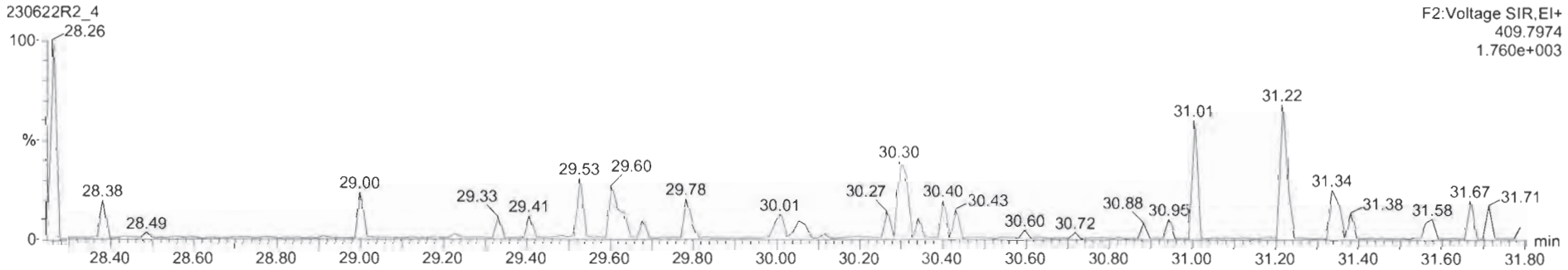
1,2,3,7,8-PeCDF



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



DPE2

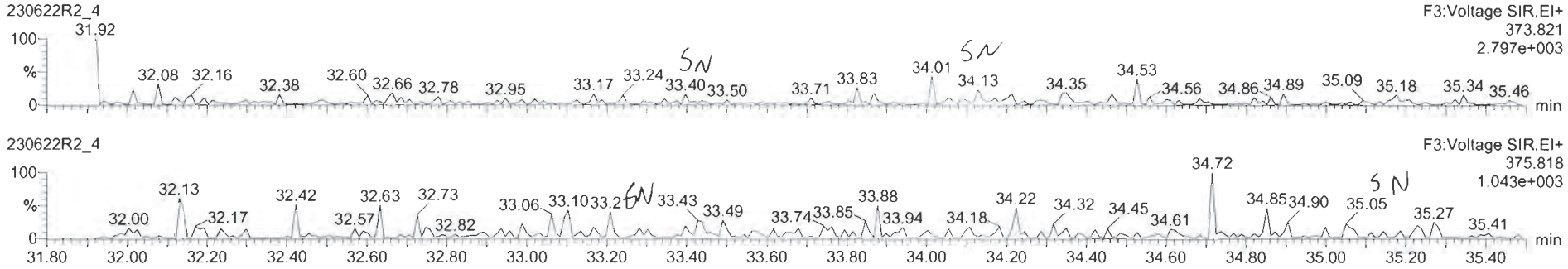


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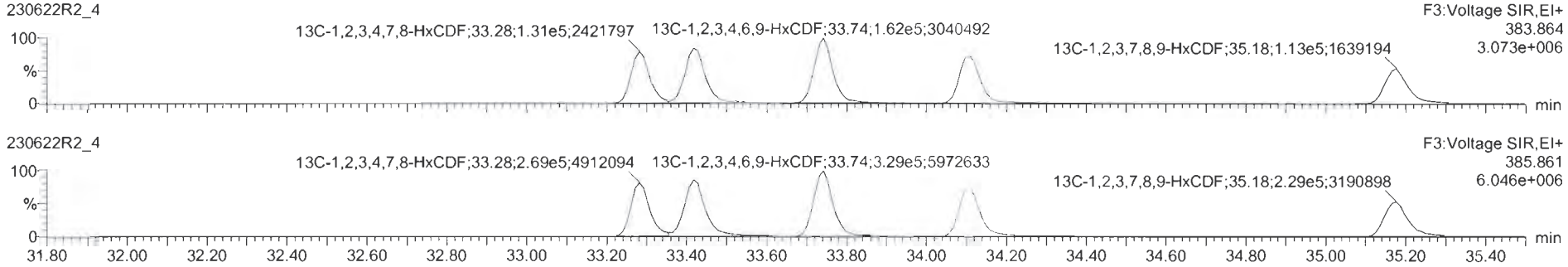
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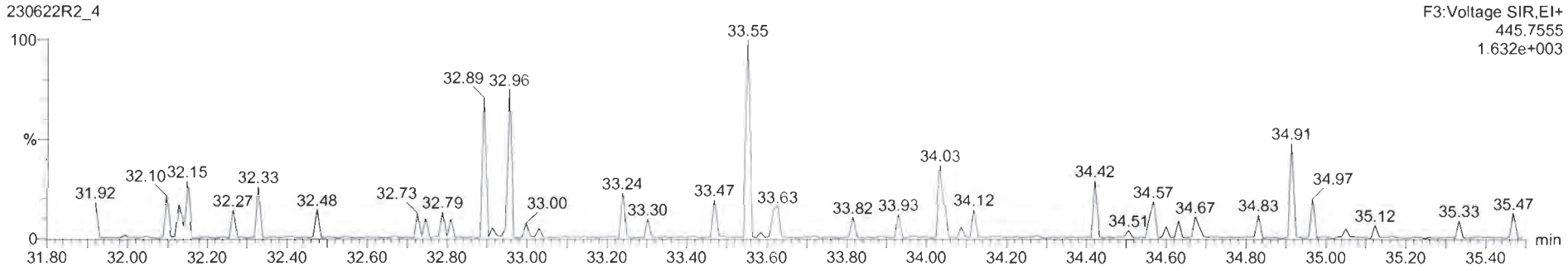
1,2,3,4,7,8-HxCDF



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



DPE3

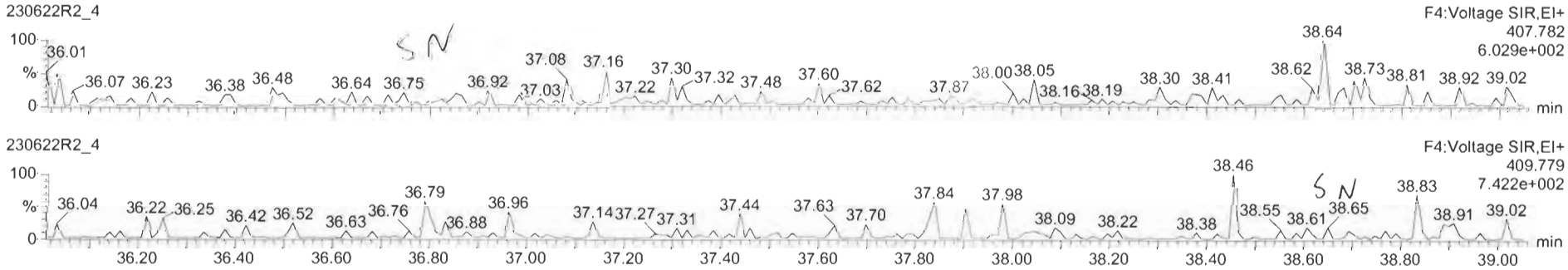


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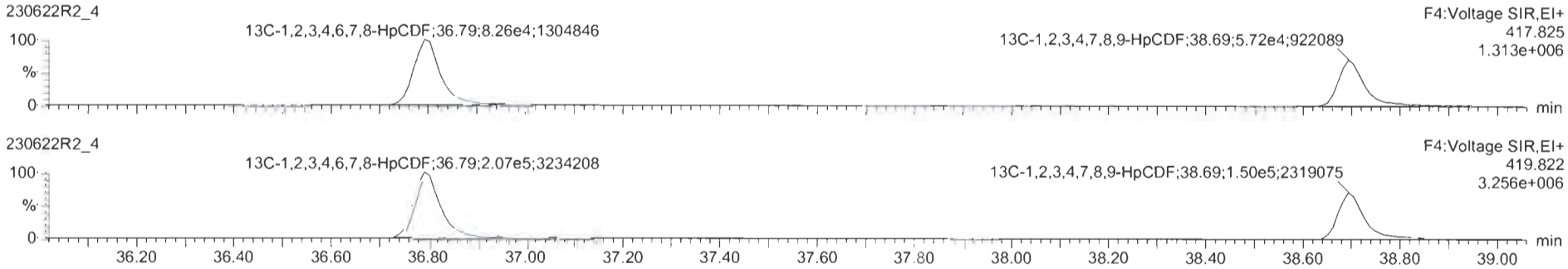
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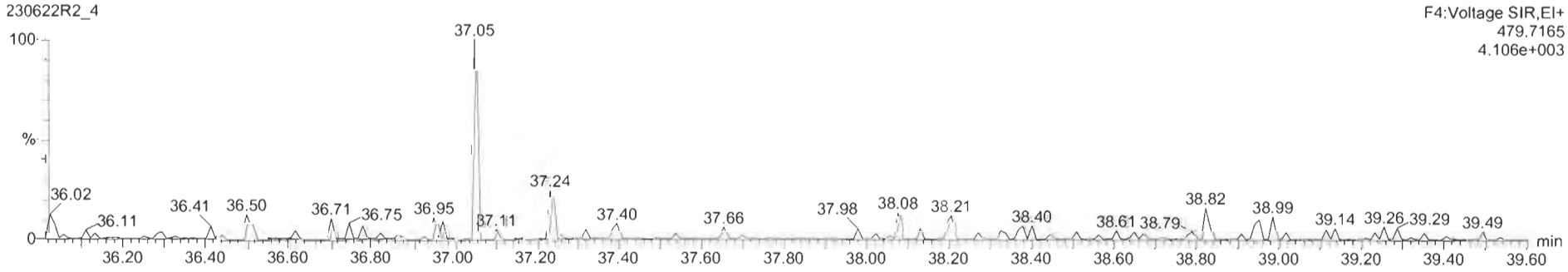
1,2,3,4,6,7,8-HpCDF



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



OPE4

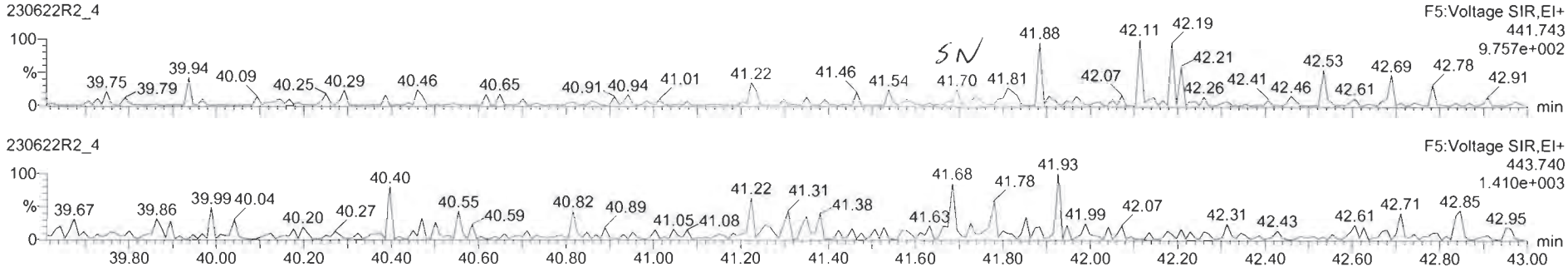


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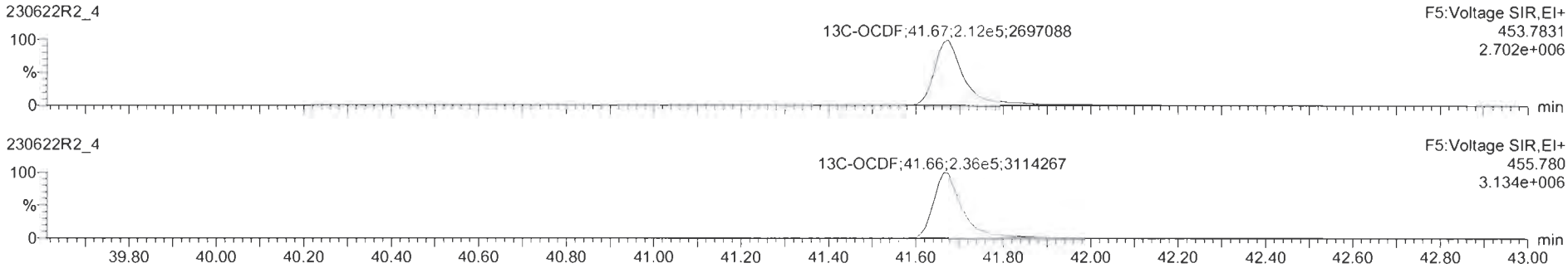
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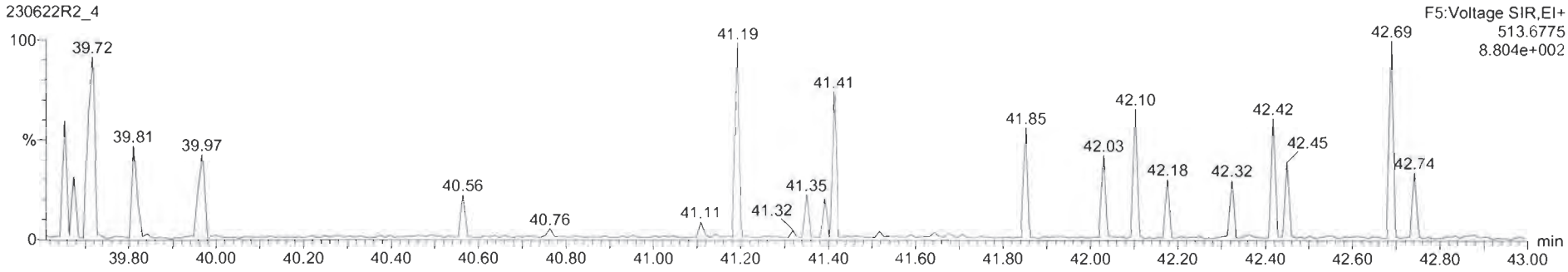
OCDF



13C-OCDF



DPE5

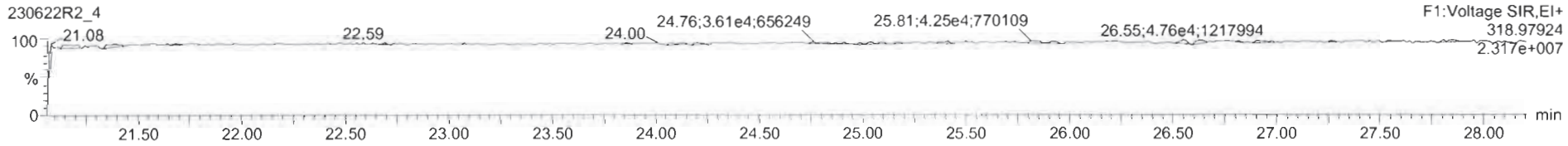


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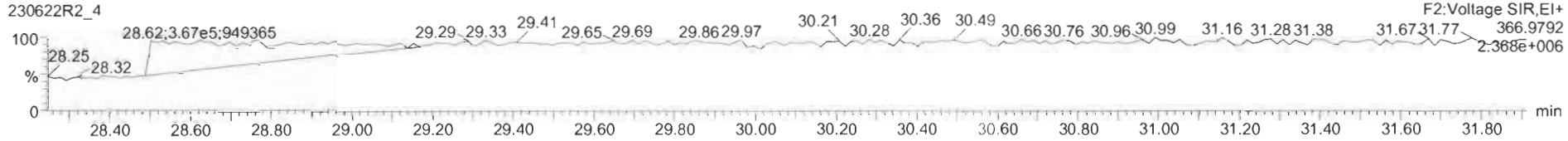
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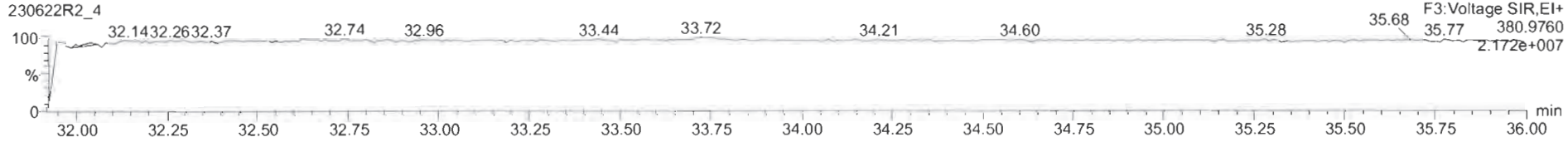
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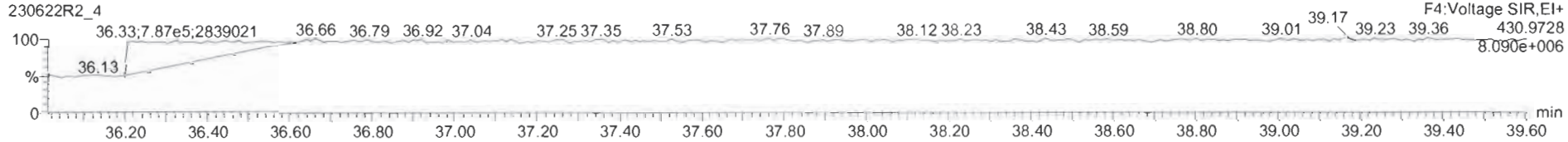
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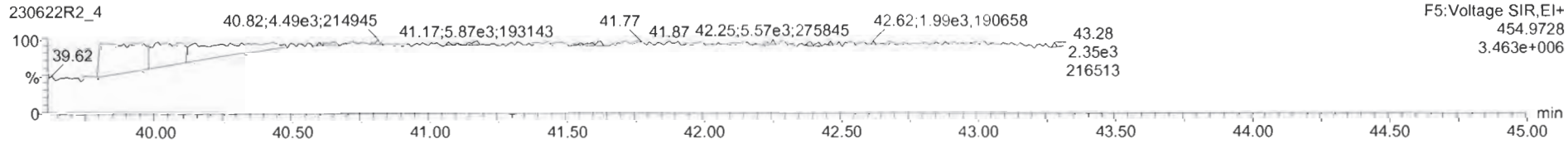
PFK3



PFK4



PFK5



Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230622R2\230622R2-2.qld

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Printed: Friday, June 23, 2023 15:23:03 Pacific Daylight Time

L 06/06/23

ATM 06/23/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-20-23.mdb 20 Jun 2023 11:15:18
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-21-23.cdb 22 Jun 2023 08:14:04

Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR, Task: ST230622R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.41e4	0.74	NO	0.810	5.000	26.64	1.001	44.225		0.117	44.2
2	1,2,3,7,8-PeCDD	1.54e5	0.61	NO	0.688	5.000	30.92	1.000	245.19		0.664	245
3	1,2,3,4,7,8-HxCDD	1.19e5	1.25	NO	0.772	5.000	34.22	1.000	224.18		0.982	224
4	1,2,3,6,7,8-HxCDD	1.26e5	1.26	NO	0.715	5.000	34.35	1.000	225.44		1.02	225
5	1,2,3,7,8,9-HxCDD	1.25e5	1.24	NO	0.719	5.000	34.65	1.001	227.18		1.08	227
6	1,2,3,4,6,7,8-HpCDD	8.50e4	1.04	NO	0.745	5.000	38.01	1.000	217.71		1.41	218
7	OCDD	1.26e5	0.88	NO	0.706	5.000	41.34	1.000	459.76		2.06	460
8	2,3,7,8-TCDF	4.75e4	0.74	NO	0.684	5.000	26.03	1.001	43.477		0.194	43.5
9	1,2,3,7,8-PeCDF	2.19e5	1.56	NO	0.698	5.000	29.78	1.000	235.22		0.919	235
10	2,3,4,7,8-PeCDF	2.46e5	1.51	NO	0.775	5.000	30.75	1.000	246.26		0.759	246
11	1,2,3,4,7,8-HxCDF	1.51e5	1.25	NO	0.785	5.000	33.30	1.000	241.92		0.923	242
12	1,2,3,6,7,8-HxCDF	1.65e5	1.24	NO	0.748	5.000	33.44	1.000	241.05		0.909	241
13	2,3,4,6,7,8-HxCDF	1.49e5	1.28	NO	0.770	5.000	34.13	1.001	241.79		1.01	242
14	1,2,3,7,8,9-HxCDF	1.20e5	1.24	NO	0.766	5.000	35.20	1.001	233.70		1.43	234
15	1,2,3,4,6,7,8-HpCDF	1.06e5	1.03	NO	0.834	5.000	36.83	1.001	232.30		1.28	232
16	1,2,3,4,7,8,9-HpCDF	8.59e4	1.03	NO	0.863	5.000	38.72	1.000	234.78		1.53	235
17	OCDF	1.45e5	0.89	NO	0.651	5.000	41.69	1.000	468.87		1.75	469
18	13C-2,3,7,8-TCDD	6.05e5	0.76	NO	1.10	5.000	26.62	1.027	453.24	113	0.686	
19	13C-1,2,3,7,8-PeCDD	3.65e5	0.60	NO	0.864	5.000	30.90	1.192	349.92	87.5	0.550	
20	13C-1,2,3,4,7,8-HxCDD	2.75e5	1.25	NO	0.834	5.000	34.21	1.014	345.45	86.4	1.55	
21	13C-1,2,3,6,7,8-HxCDD	3.12e5	1.26	NO	0.916	5.000	34.34	1.018	356.84	89.2	1.41	
22	13C-1,2,3,7,8,9-HxCDD	3.07e5	1.29	NO	0.930	5.000	34.63	1.026	345.73	86.4	1.39	
23	13C-1,2,3,4,6,7,8-HpCDD	2.10e5	1.02	NO	0.675	5.000	38.00	1.126	325.16	81.3	1.52	
24	13C-OCDD	3.11e5	0.92	NO	0.568	5.000	41.32	1.224	573.21	71.7	1.85	
25	13C-2,3,7,8-TCDF	6.39e5	0.77	NO	1.06	5.000	26.00	1.003	358.25	89.6	0.662	
26	13C-1,2,3,7,8-PeCDF	5.33e5	1.59	NO	0.873	5.000	29.77	1.148	364.14	91.0	1.17	
27	13C-2,3,4,7,8-PeCDF	5.16e5	1.56	NO	0.866	5.000	30.73	1.185	355.23	88.8	1.18	
28	13C-1,2,3,4,7,8-HxCDF	3.18e5	0.49	NO	0.987	5.000	33.29	0.987	336.67	84.2	1.37	
29	13C-1,2,3,6,7,8-HxCDF	3.66e5	0.50	NO	1.06	5.000	33.43	0.991	361.66	90.4	1.28	
30	13C-2,3,4,6,7,8-HxCDF	3.20e5	0.49	NO	0.950	5.000	34.11	1.011	352.44	88.1	1.43	
31	13C-1,2,3,7,8,9-HxCDF	2.67e5	0.49	NO	0.830	5.000	35.18	1.043	336.91	84.2	1.63	
32	13C-1,2,3,4,6,7,8-HpCDF	2.18e5	0.43	NO	0.683	5.000	36.80	1.091	334.48	83.6	1.97	

Dataset: I:\VG12.PRO\Results\230622R2\230622R2-2.qld

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Printed: Friday, June 23, 2023 15:23:03 Pacific Daylight Time

Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR, Task: ST230622R2_1

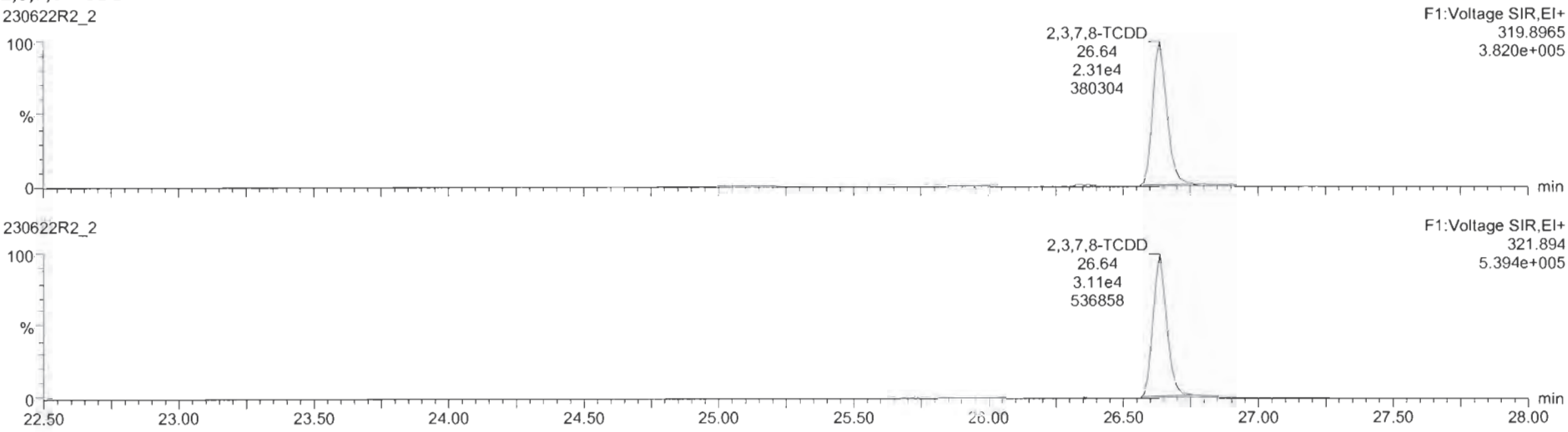
	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	1.70e5	0.38	NO	0.544	5.000	38.71	1.147	326.62	81.7	2.48	
34	13C-OCDF	3.80e5	0.87	NO	0.646	5.000	41.67	1.235	615.76	77.0	1.76	
35	37Cl-2,3,7,8-TCDD	2.09e5			0.905	5.000	26.64	1.027	191.56	120	0.240	
36	13C-1,2,3,4-TCDD	4.83e5	0.76	NO	1.00	5.000	25.93	1.000	400.00	100	0.757	
37	13C-1,2,3,4-TCDF	6.71e5	0.75	NO	1.00	5.000	24.61	1.000	400.00	100	0.704	
38	13C-1,2,3,4,6,9-HxCDF	3.82e5	0.48	NO	1.00	5.000	33.74	1.000	400.00	100	1.35	

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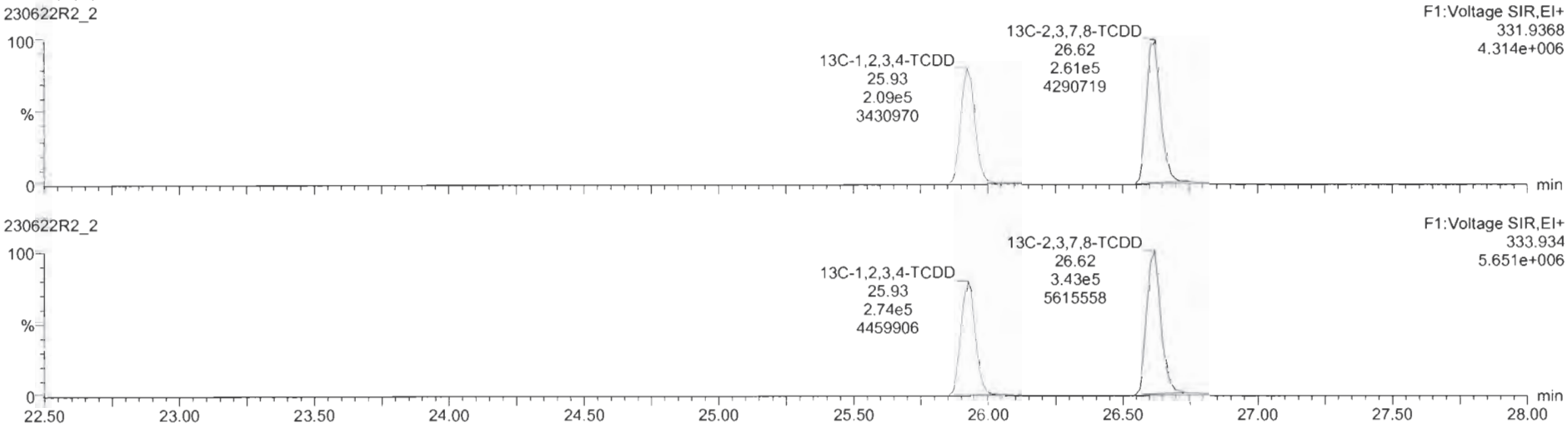
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Printed: Friday, June 23, 2023 08:20:56 Pacific Daylight Time

Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR

2,3,7,8-TCDD



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

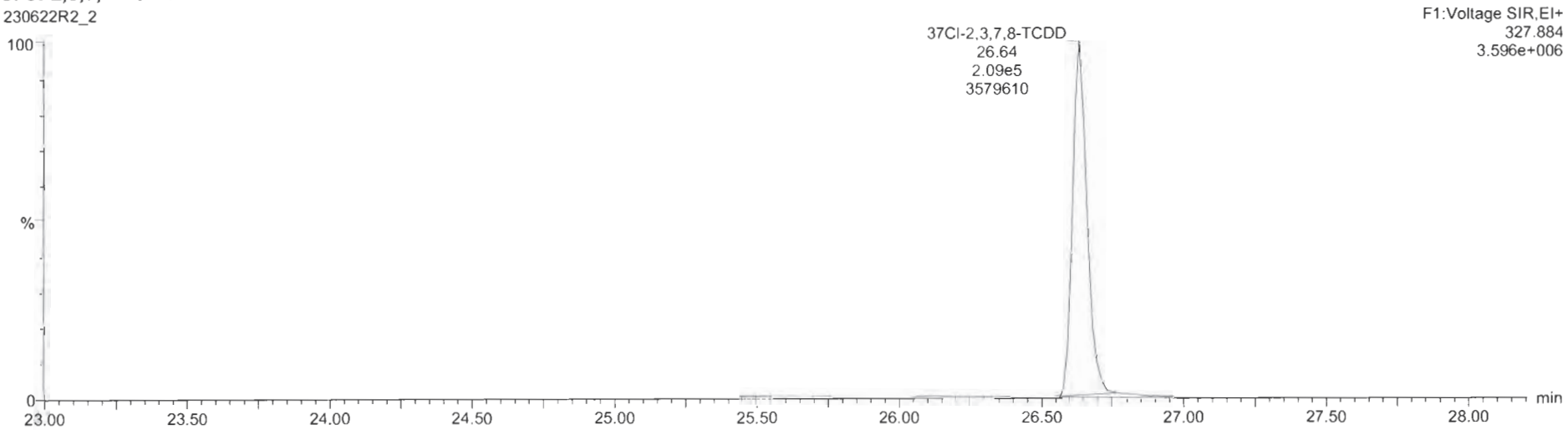


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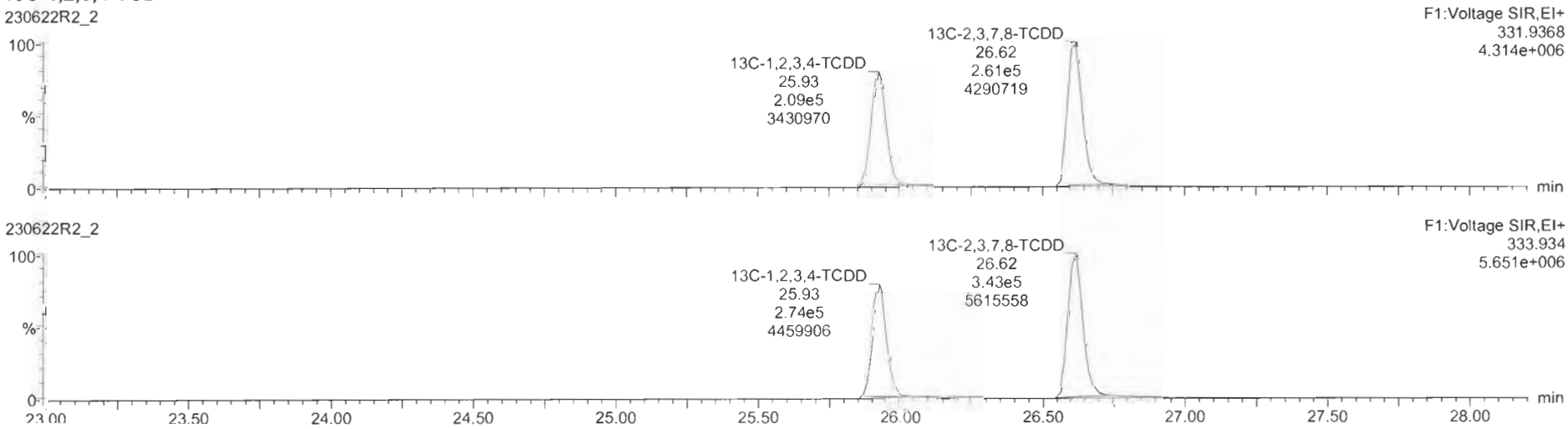
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Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR

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



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

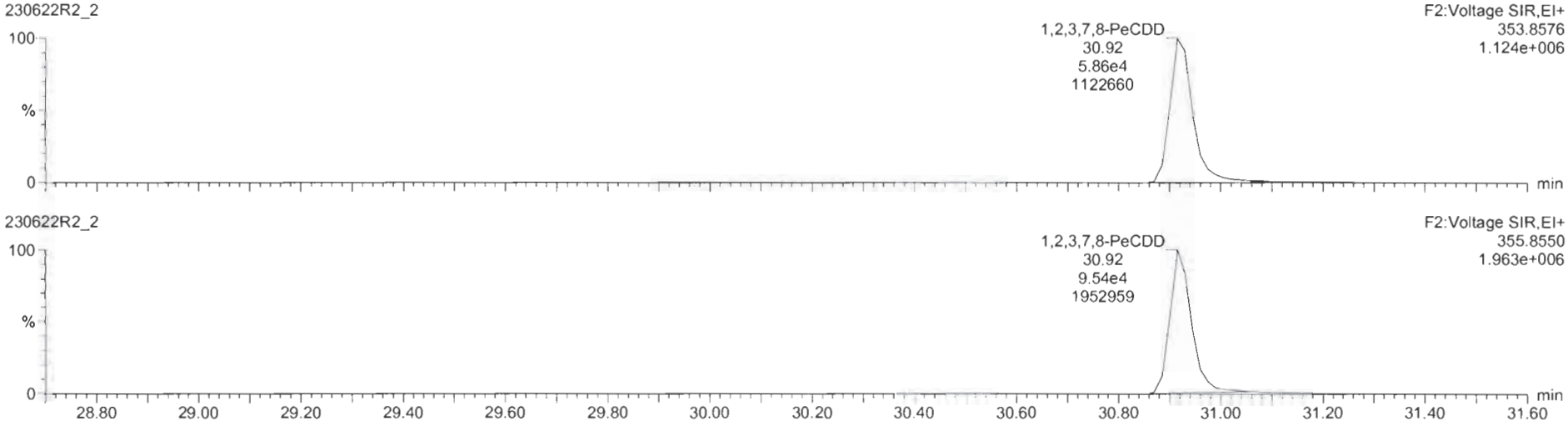


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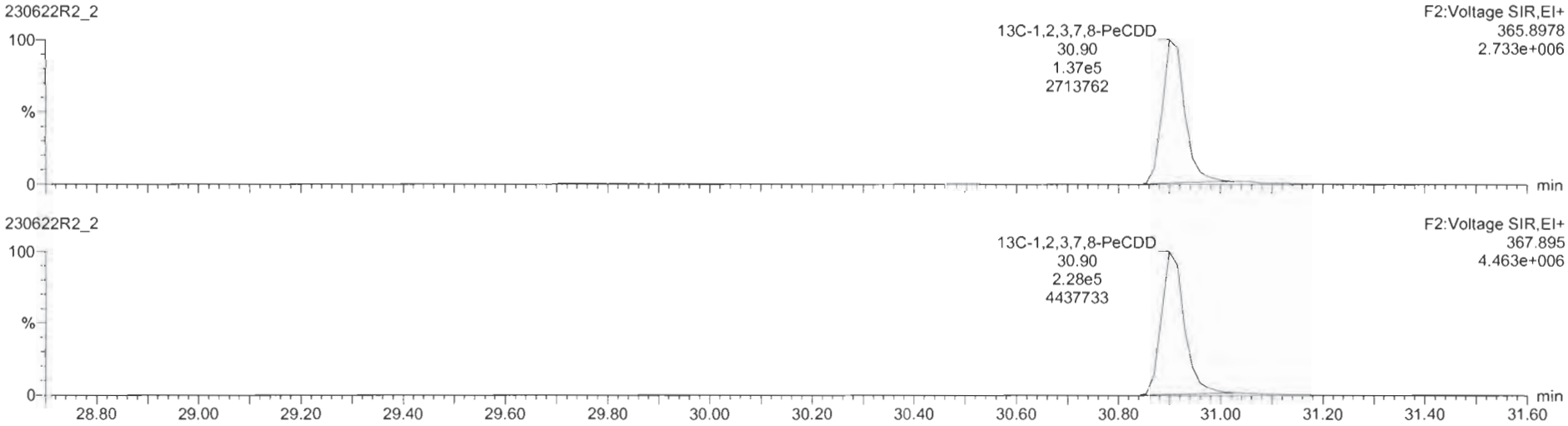
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Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR

1,2,3,7,8-PeCDD



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

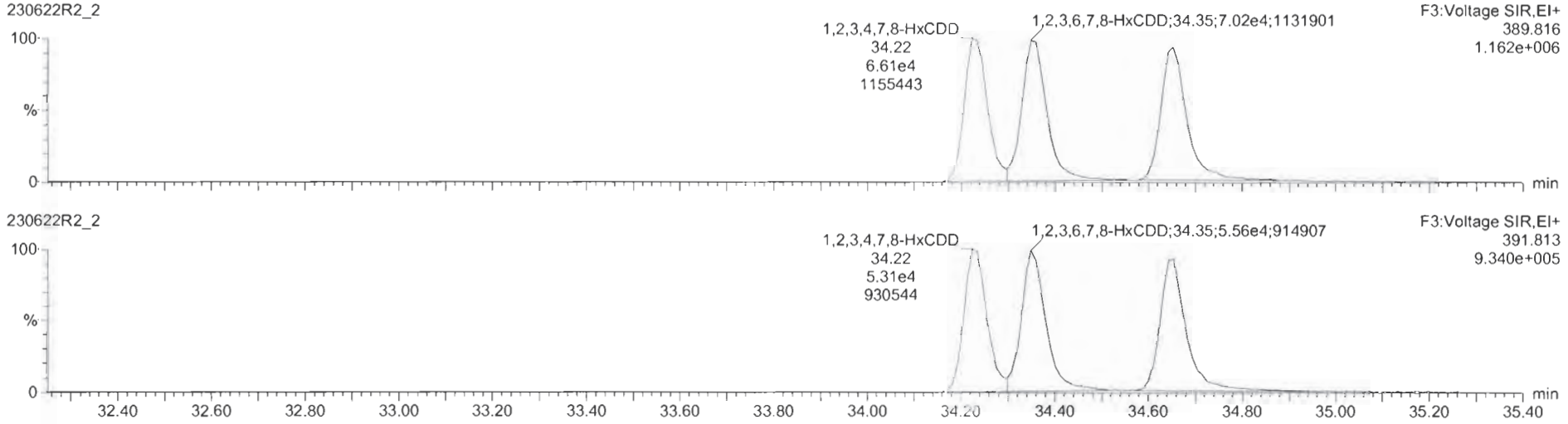


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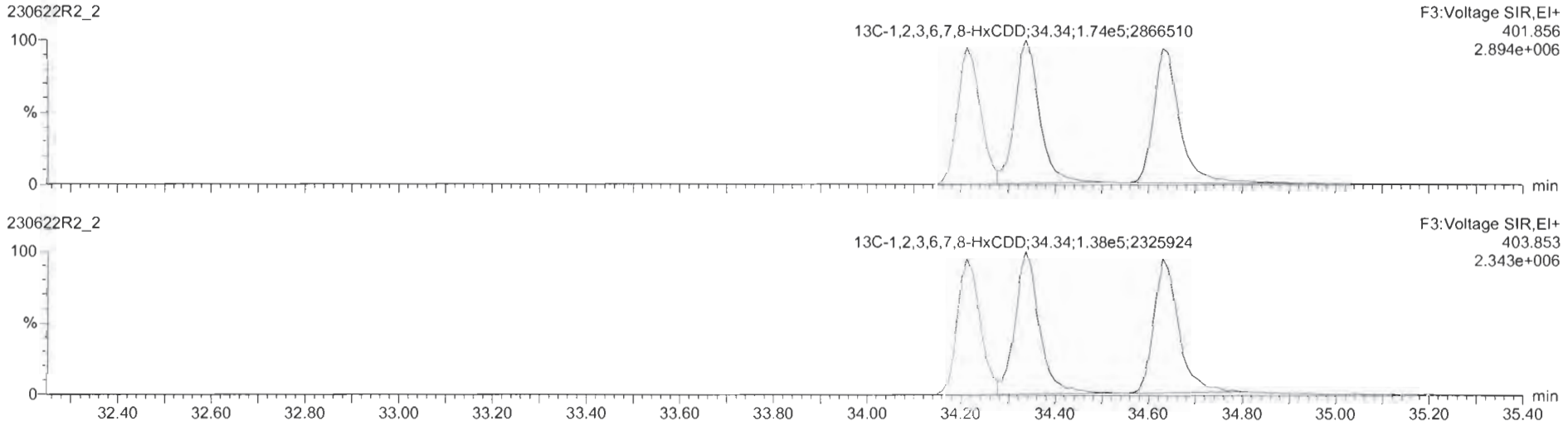
Last Altered: Friday, June 23, 2023 08:20:11 Pacific Daylight Time
Printed: Friday, June 23, 2023 08:20:56 Pacific Daylight Time

Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR

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



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

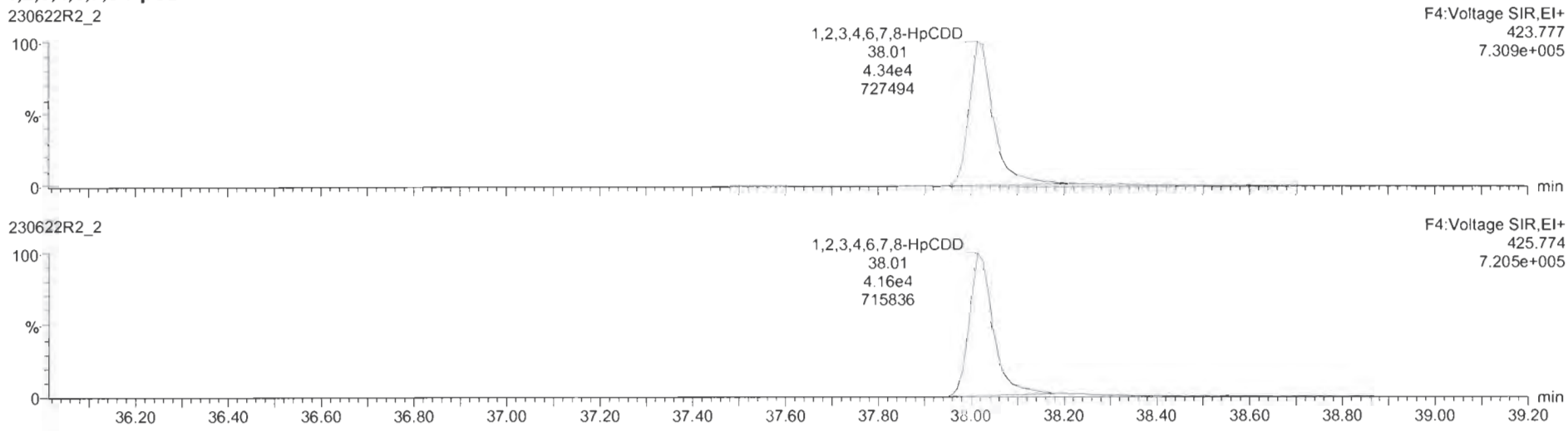


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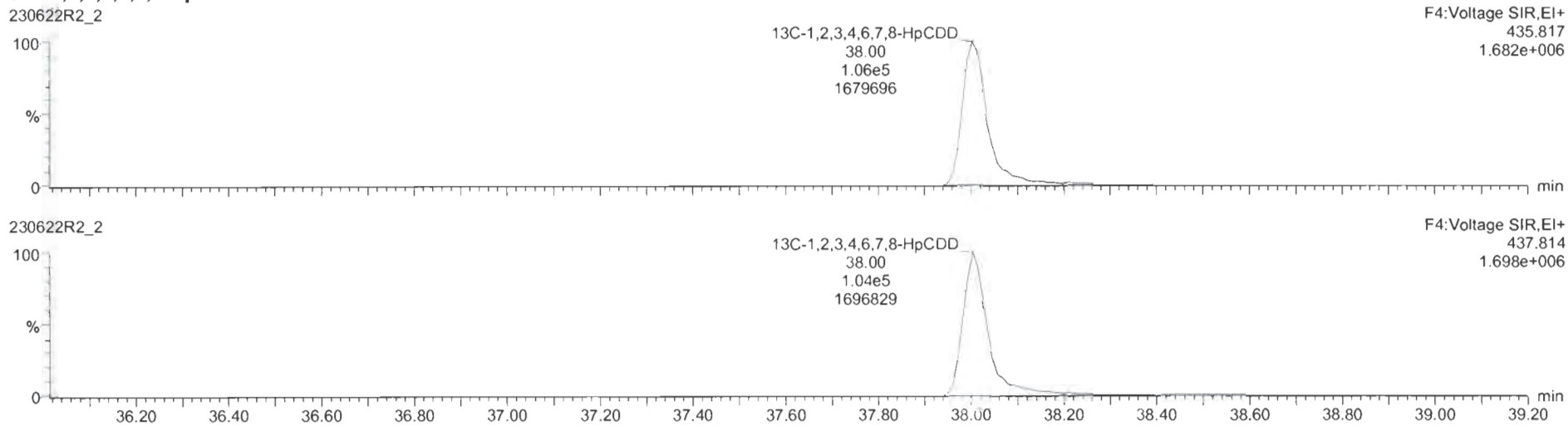
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Printed: Friday, June 23, 2023 08:20:56 Pacific Daylight Time

Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR

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



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

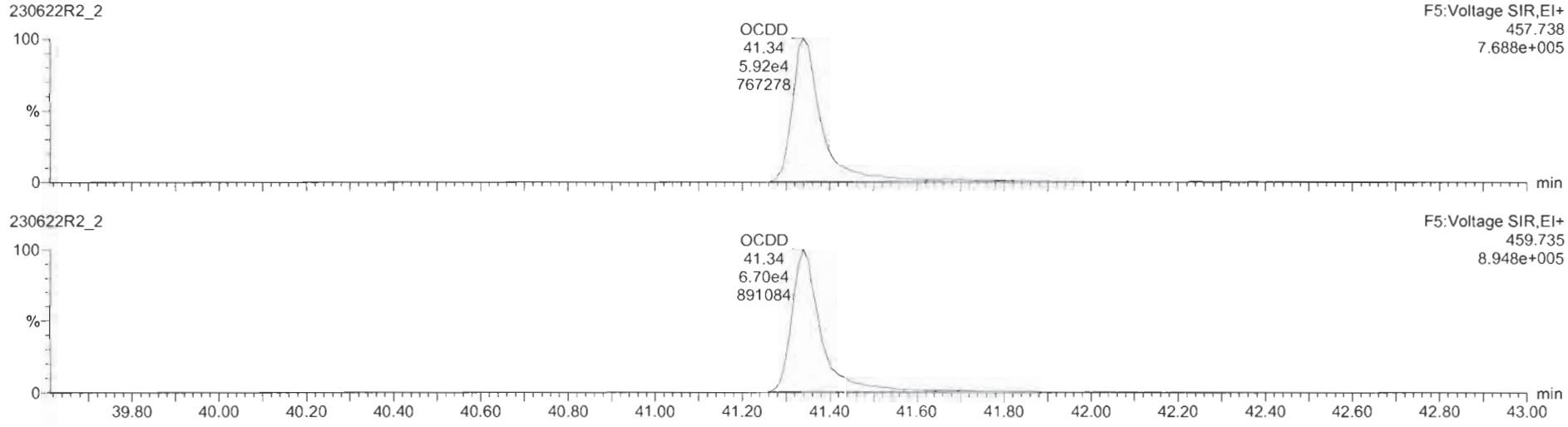


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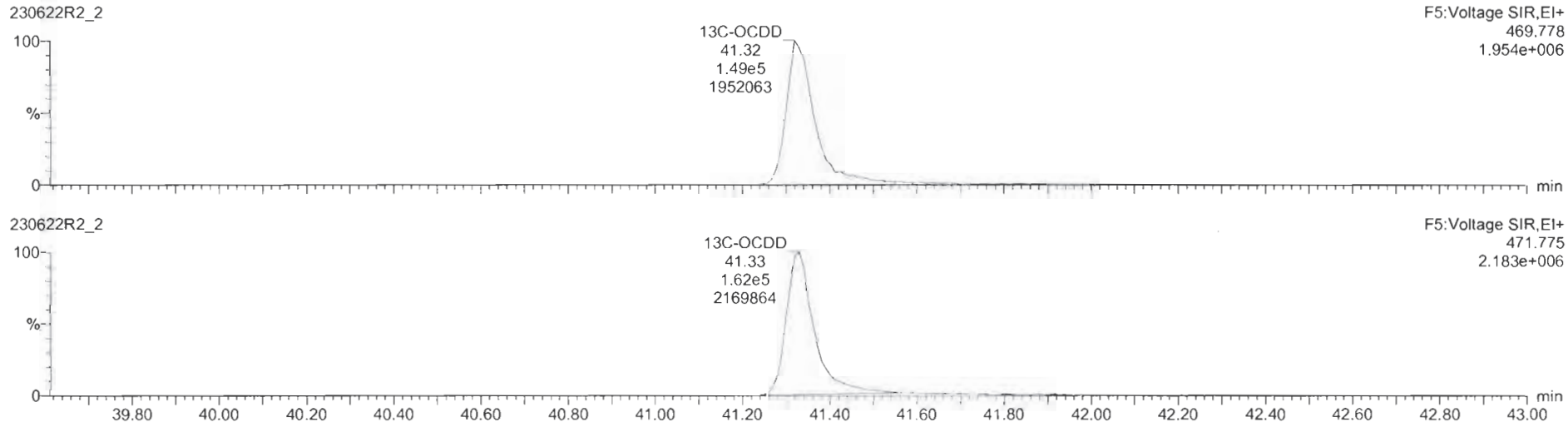
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Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR

OCDD



13C-OCDD

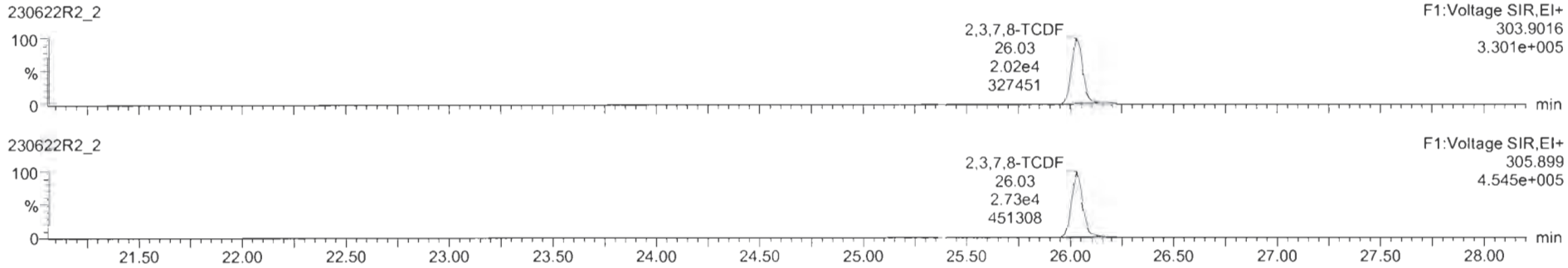


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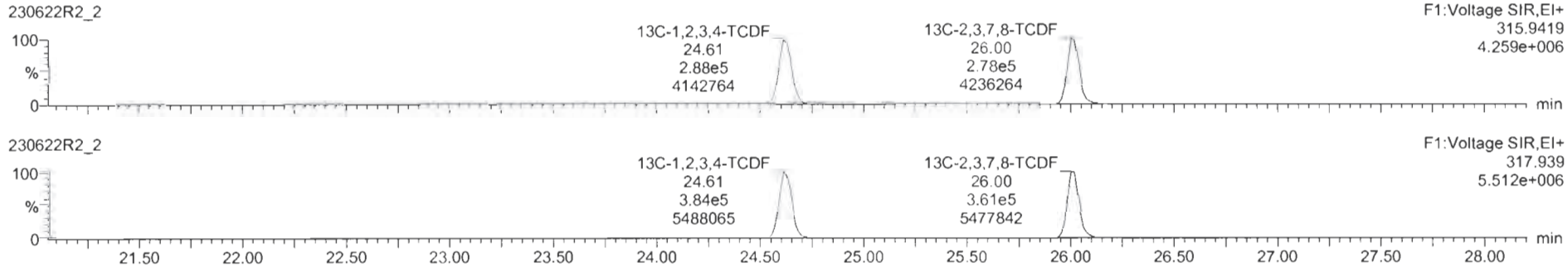
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Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR

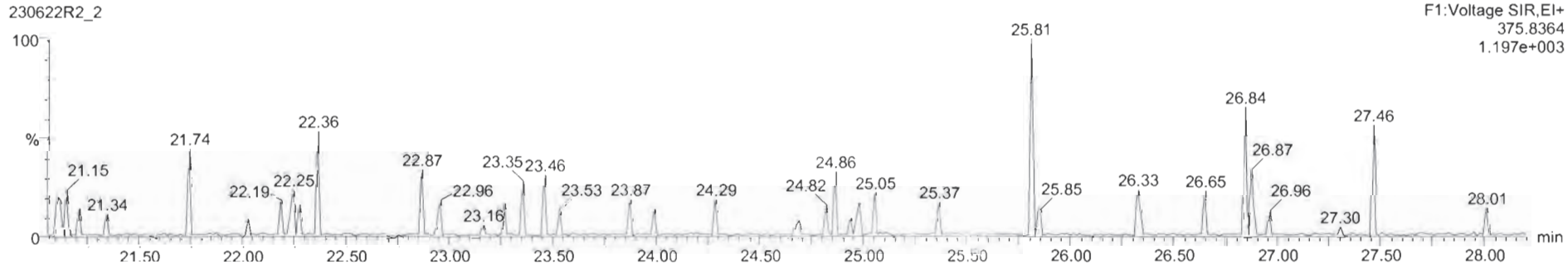
2,3,7,8-TCDF



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



DPE1

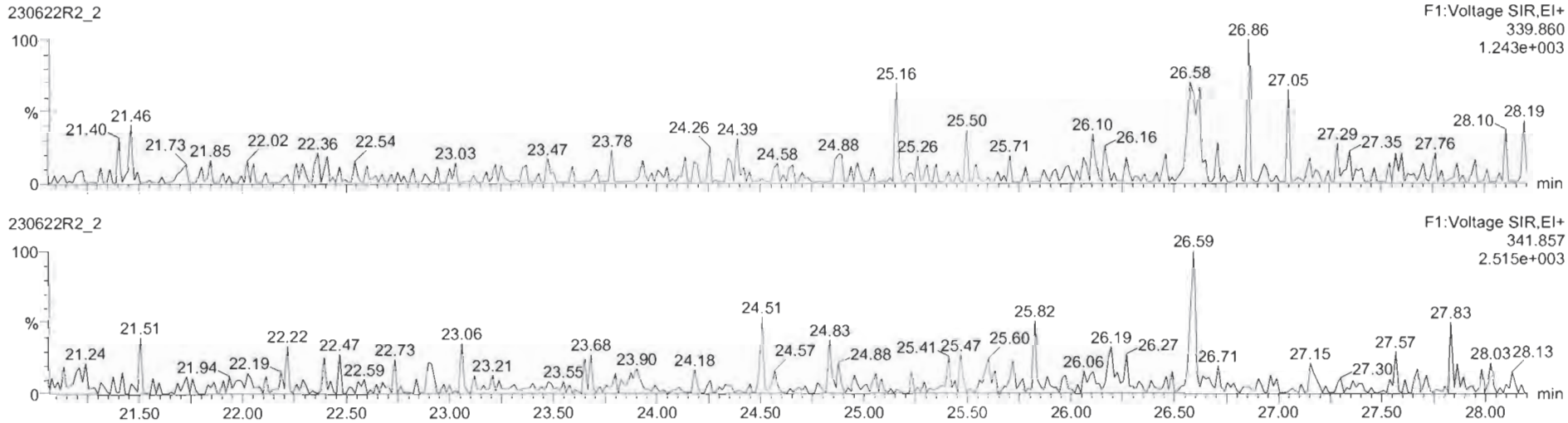


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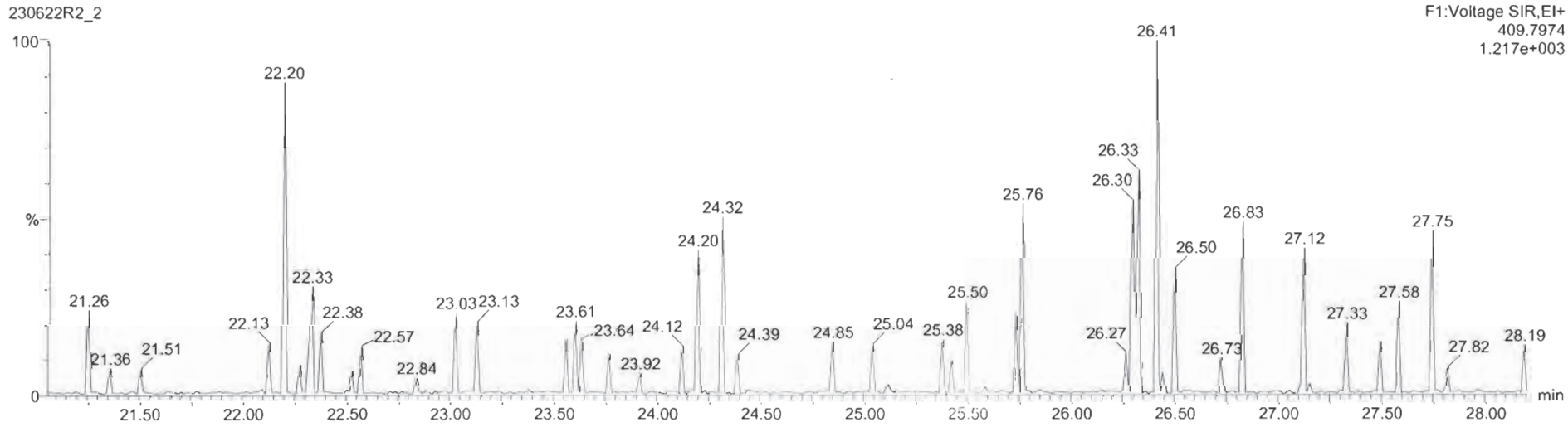
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Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR

1st Func. Penta-Furans



DPE6

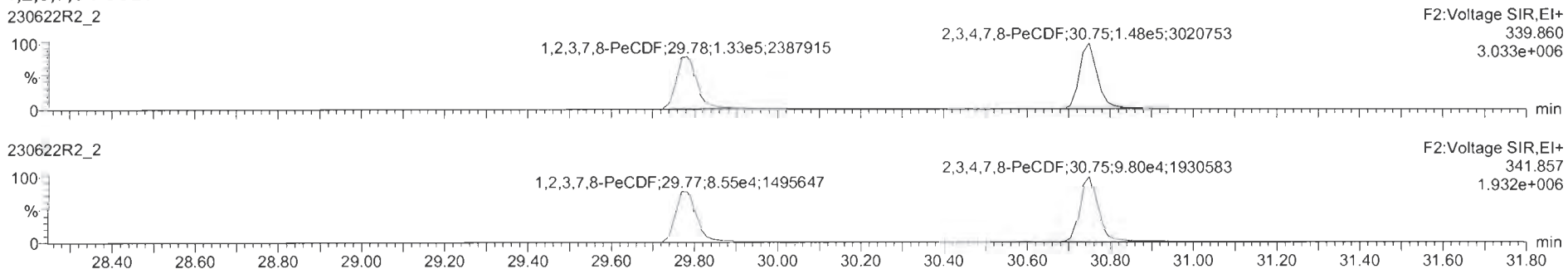


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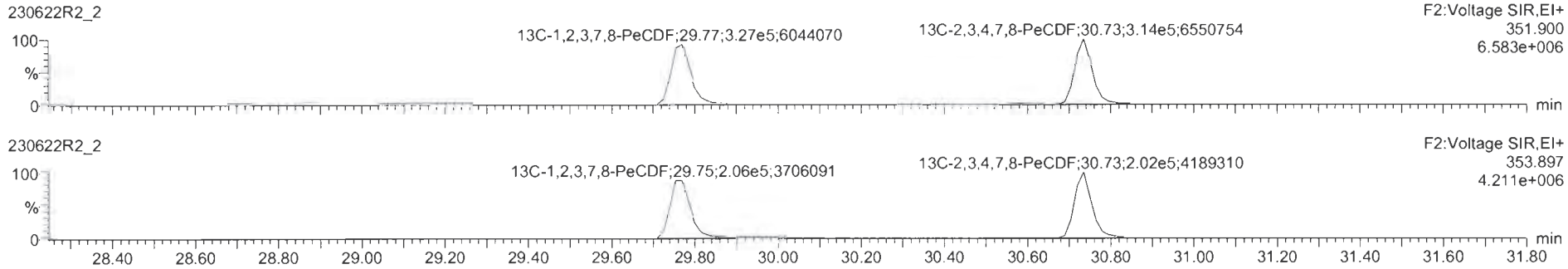
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Name: 230622R2_2, Date: 22-Jun-2023, Time: 13:57:55, ID: B23F146-BS1 OPR 5, Description: OPR

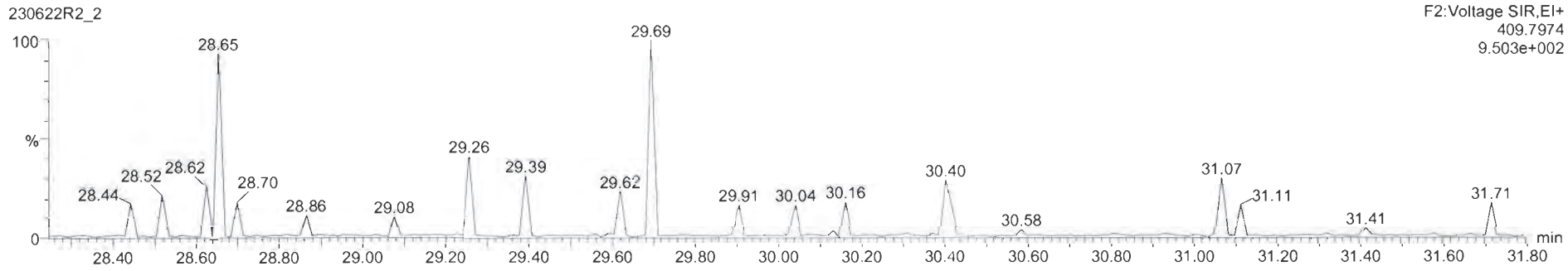
1,2,3,7,8-PeCDF



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



DPE2

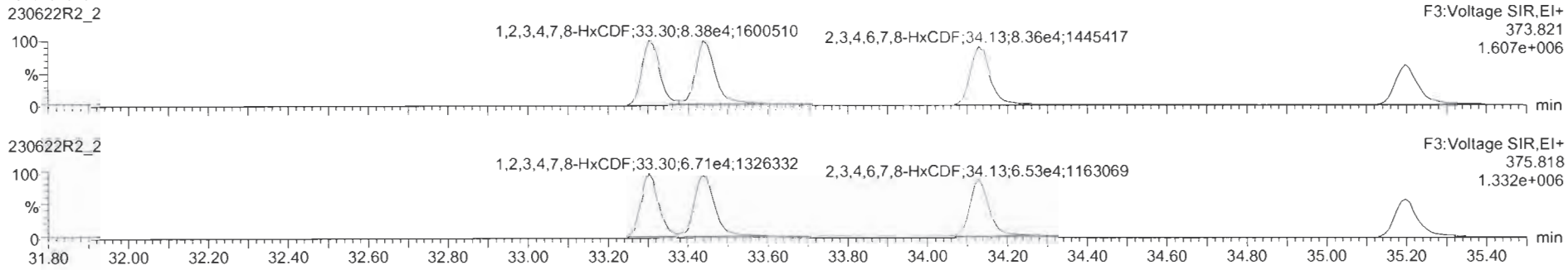


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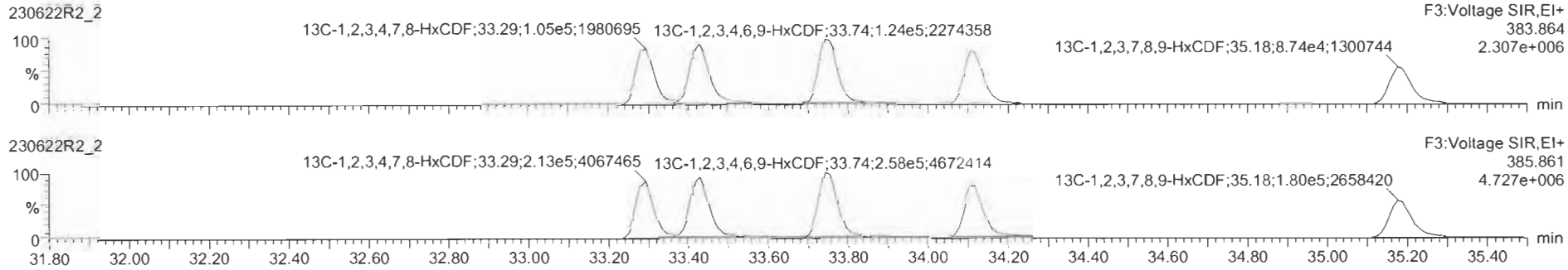
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Printed: Friday, June 23, 2023 08:20:56 Pacific Daylight Time

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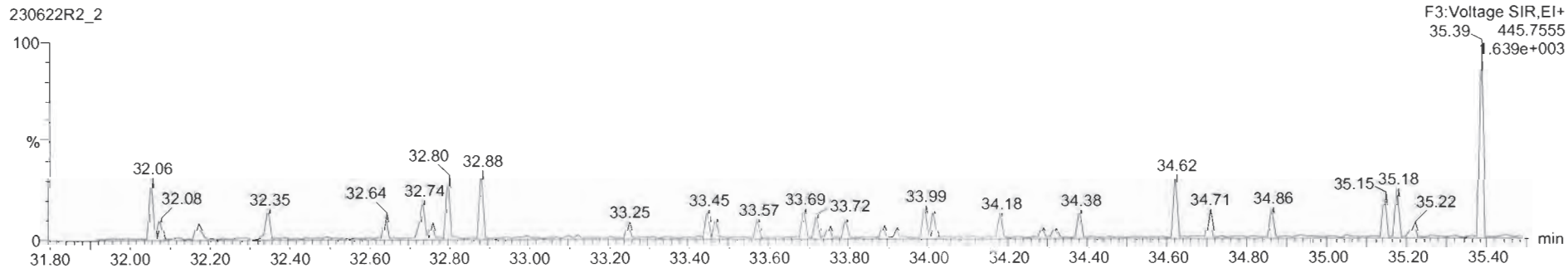
1,2,3,4,7,8-HxCDF



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



DPE3

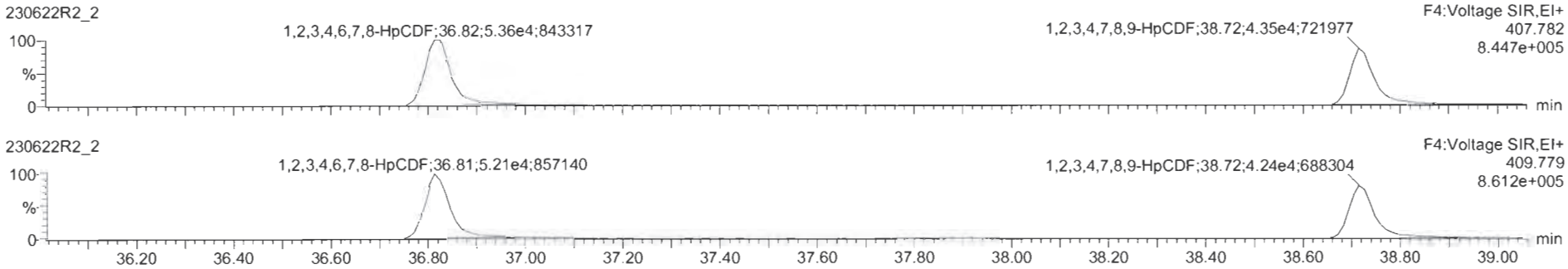


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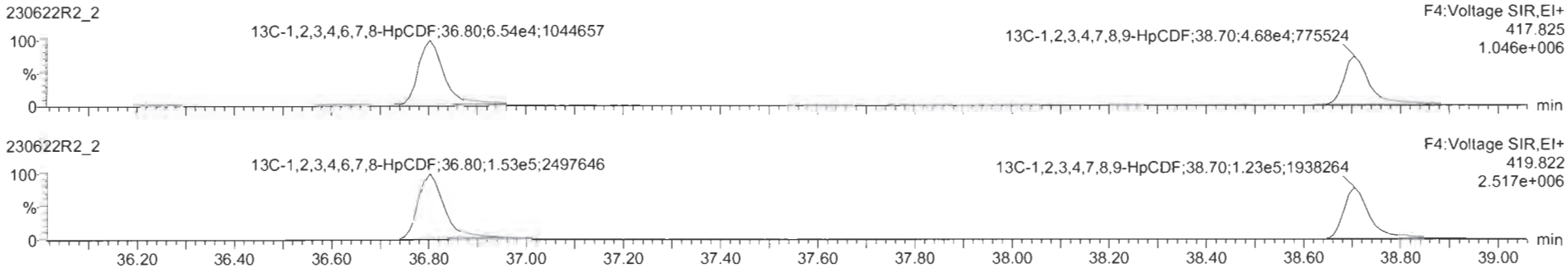
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Printed: Friday, June 23, 2023 08:20:56 Pacific Daylight Time

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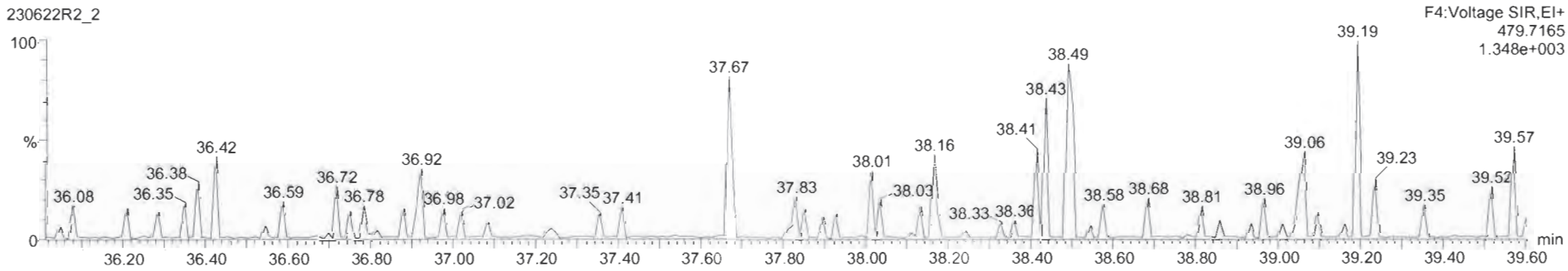
1,2,3,4,6,7,8-HpCDF



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



DPE4

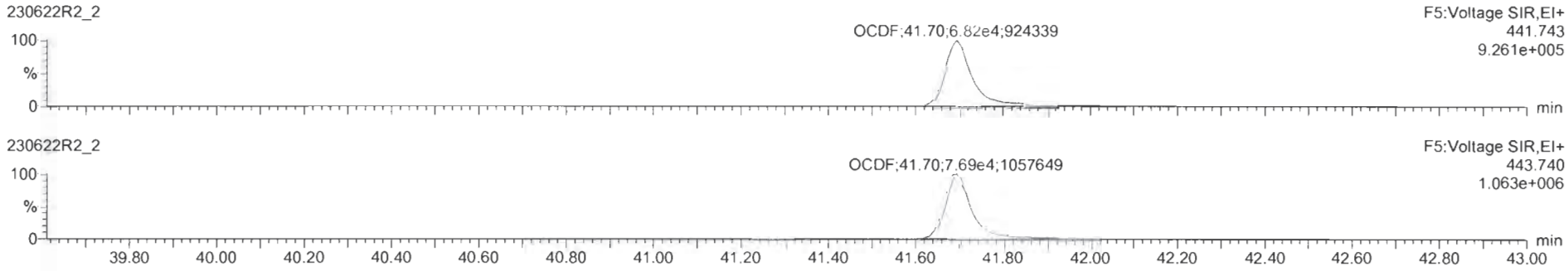


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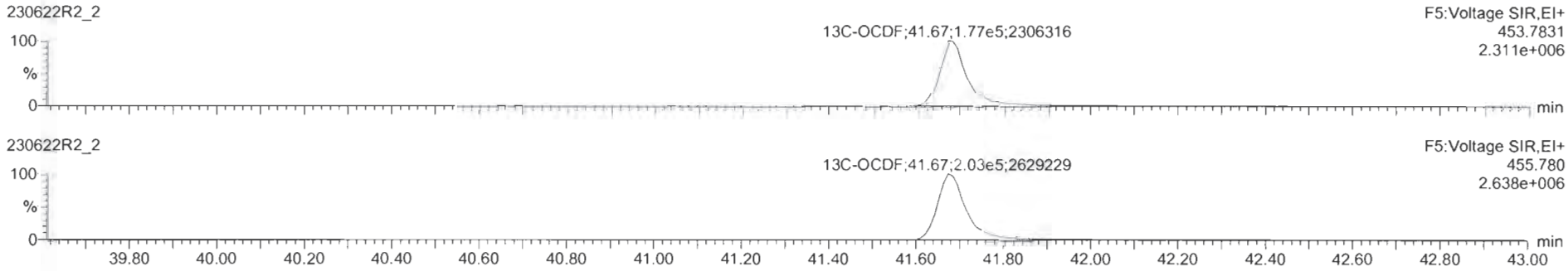
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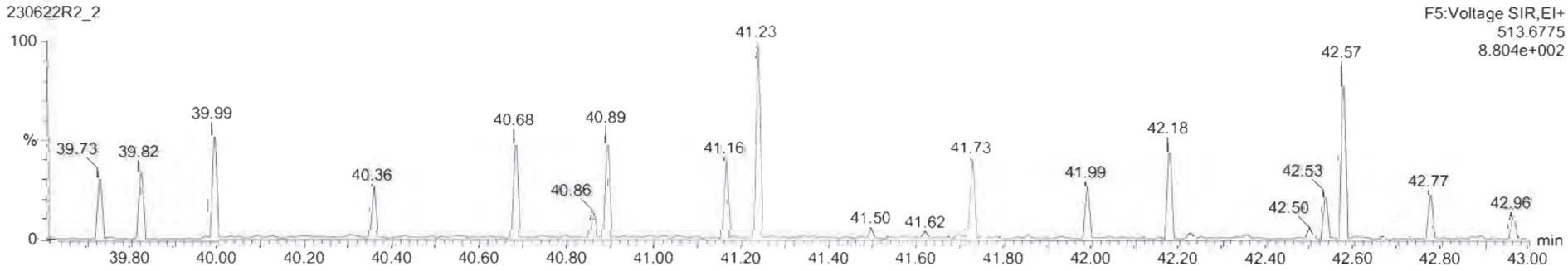
OCDF



13C-OCDF



DPE5

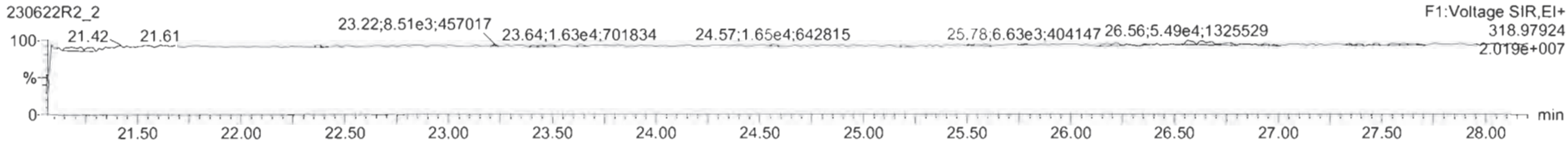


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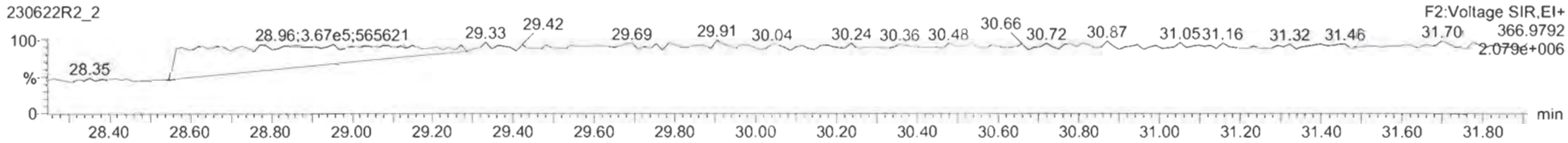
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Printed: Friday, June 23, 2023 08:20:56 Pacific Daylight Time

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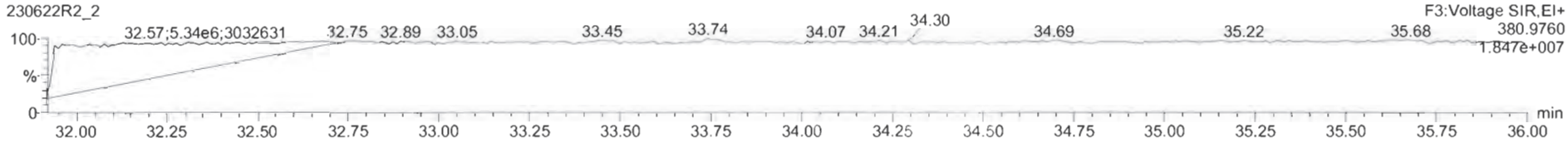
PFK1



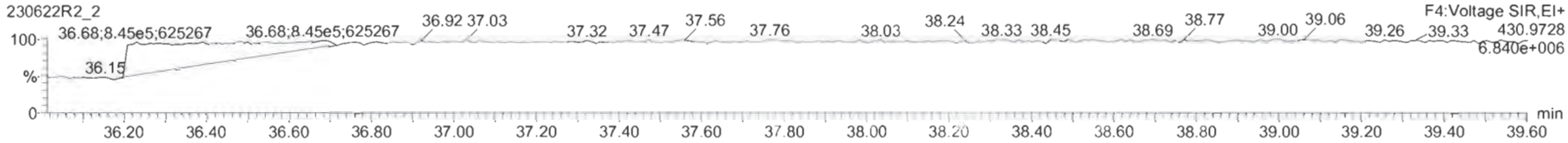
PFK2



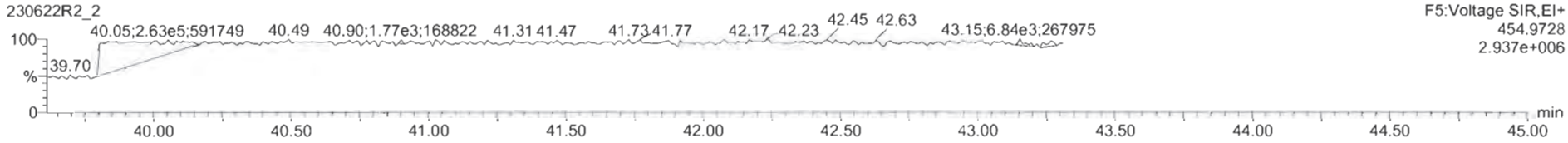
PFK3



PFK4



PFK5



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Enthalpy Analytical VG-10

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-9.qld

Last Altered: Tuesday, June 13, 2023 12:45:18 Pacific Daylight Time
Printed: Tuesday, June 13, 2023 12:47:11 Pacific Daylight Time

06/14/23

MAF 06/13/23

* See dil

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01, Task: ST230611R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.18e3	0.72	NO	0.906	10.073	26.74	1.001	0.83393		0.217	0.834
2	1,2,3,7,8-PeCDD	1.54e4	0.70	NO	0.745	10.073	30.98	1.000	15.338		0.284	15.3
3	1,2,3,4,7,8-HxCDD	2.25e4	1.28	NO	0.837	10.073	34.30	1.001	30.701		1.96	30.7
4	1,2,3,6,7,8-HxCDD	1.84e5	1.27	NO	0.782	10.073	34.42	1.000	229.37		1.91	229
5	1,2,3,7,8,9-HxCDD	5.12e4	1.26	NO	0.780	10.073	34.71	1.000	68.685		2.18	68.7
6	1,2,3,4,6,7,8-HpCDD	2.99e6	1.02	NO	0.903	10.073	38.07	1.000	4495.8 *E		5.61	4500
7	OCDD	1.71e7	0.90	NO	0.782	10.073	41.43	1.000	30639 *E		4.94	30600
8	2,3,7,8-TCDF	5.42e3	0.76	NO	0.852	10.073	26.12	1.001	3.6784		0.352	3.68
9	1,2,3,7,8-PeCDF	1.46e4	1.64	NO	0.758	10.073	29.85	1.001	10.509		0.340	10.5
10	2,3,4,7,8-PeCDF	3.40e4	1.68	NO	0.834	10.073	30.83	1.001	21.893		0.299	21.9
11	1,2,3,4,7,8-HxCDF	1.79e4	1.14	NO	0.762	10.073	33.37	1.001	22.156		0.773	22.2
12	1,2,3,6,7,8-HxCDF	1.47e4	1.18	NO	0.726	10.073	33.50	1.001	16.507		0.788	16.5
13	2,3,4,6,7,8-HxCDF	1.78e4	1.19	NO	0.756	10.073	34.21	1.001	23.233		0.924	23.2
14	1,2,3,7,8,9-HxCDF	9.08e3	1.19	NO	0.749	10.073	35.29	1.001	14.426		1.37	14.4
15	1,2,3,4,6,7,8-HpCDF	1.37e5	0.98	NO	0.754	10.073	36.88	1.000	262.44		1.31	262
16	1,2,3,4,7,8,9-HpCDF	5.13e3	0.91	NO	0.792	10.073	38.77	1.001	12.951		1.94	13.0
17	OCDF	1.50e5	0.78	NO	0.669	10.073	41.76	1.000	305.21		1.41	305
18	13C-2,3,7,8-TCDD	3.09e5	0.76	NO	1.13	10.073	26.71	1.026	183.01	92.2	0.411	
19	13C-1,2,3,7,8-PeCDD	2.68e5	0.60	NO	0.869	10.073	30.96	1.189	205.38	103	0.545	
20	13C-1,2,3,4,7,8-HxCDD	1.74e5	1.25	NO	0.746	10.073	34.28	1.014	189.95	95.7	1.24	
21	13C-1,2,3,6,7,8-HxCDD	2.03e5	1.23	NO	0.803	10.073	34.40	1.018	206.29	104	1.15	
22	13C-1,2,3,7,8,9-HxCDD	1.90e5	1.17	NO	0.817	10.073	34.70	1.026	189.28	95.3	1.13	
23	13C-1,2,3,4,6,7,8-HpCDD	1.46e5	1.02	NO	0.611	10.073	38.06	1.126	194.89	98.2	1.13	
24	13C-OCDD	2.84e5	0.88	NO	0.545	10.073	41.42	1.225	424.46	107	0.870	
25	13C-2,3,7,8-TCDF	3.43e5	0.74	NO	1.07	10.073	26.11	1.003	162.25	81.7	0.442	
26	13C-1,2,3,7,8-PeCDF	3.64e5	1.55	NO	0.907	10.073	29.83	1.146	203.62	103	0.972	
27	13C-2,3,4,7,8-PeCDF	3.70e5	1.57	NO	0.889	10.073	30.80	1.183	210.80	106	0.991	
28	13C-1,2,3,4,7,8-HxCDF	2.11e5	0.49	NO	0.993	10.073	33.35	0.986	172.89	87.1	1.14	
29	13C-1,2,3,6,7,8-HxCDF	2.44e5	0.48	NO	1.05	10.073	33.48	0.990	188.89	95.1	1.08	
30	13C-2,3,4,6,7,8-HxCDF	2.01e5	0.47	NO	0.956	10.073	34.17	1.011	171.23	86.2	1.19	
31	13C-1,2,3,7,8,9-HxCDF	1.67e5	0.49	NO	0.853	10.073	35.25	1.043	159.49	80.3	1.33	

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-9.qld

Last Altered: Tuesday, June 13, 2023 12:45:18 Pacific Daylight Time
Printed: Tuesday, June 13, 2023 12:47:11 Pacific Daylight Time

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01, Task: ST230611R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1.37e5	0.38	NO	0.721	10.073	36.87	1.091	155.15	78.1	1.21	
33	13C-1,2,3,4,7,8,9-HpCDF	9.92e4	0.39	NO	0.581	10.073	38.75	1.146	139.22	70.1	1.50	
34	13C-OCDF	2.92e5	0.86	NO	0.718	10.073	41.75	1.235	331.61	83.5	1.77	
35	37Cl-2,3,7,8-TCDD	1.20e5			0.980	10.073	26.73	1.027	81.683	103	0.135	
36	13C-1,2,3,4-TCDD	2.98e5	0.77	NO	1.00	10.073	26.03	1.000	198.56	100	0.463	
37	13C-1,2,3,4-TCDF	3.92e5	0.75	NO	1.00	10.073	24.75	1.000	198.56	100	0.475	
38	13C-1,2,3,4,6,9-HxCDF	2.44e5	0.49	NO	1.00	10.073	33.81	1.000	198.56	100	1.13	
39	Total Tetra-Dioxins				0.906	10.073			3.0160		0.217	10.7
40	Total Penta-Dioxins				0.745	10.073			58.471		0.284	61.0
41	Total Hexa-Dioxins				0.782	10.073			1172.7		2.05	1170
42	Total Hepta-Dioxins				0.903	10.073			11739		5.61	11700
43	Total Tetra-Furans				0.852	10.073			21.978		0.352	43.2
44	1st Func. Penta-Furans				0.758	10.073			170.54		0.127	171
45	Total Penta-Furans				0.758	10.073			85.410		0.334	85.4
46	Total Hexa-Furans				0.756	10.073			832.16		0.925	836
47	Total Hepta-Furans				0.754	10.073			832.74		1.62	833

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-9.qld

Last Altered: Tuesday, June 13, 2023 12:45:18 Pacific Daylight Time
Printed: Tuesday, June 13, 2023 12:47:11 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01, Task: ST230611R2_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.43	6.339e3	7.078e3	5.164e2	5.779e2	0.89	YES	0.000e0	0.00000	0.72580	0.217
2	Total Tetra-Dioxins	23.76	5.507e3	7.834e3	3.814e2	4.635e2	0.82	NO	8.449e2	0.59948	0.59948	0.217
3	Total Tetra-Dioxins	23.89	5.619e4	1.777e4	4.617e3	1.415e3	3.26	YES	0.000e0	0.00000	1.7773	0.217
4	Total Tetra-Dioxins	24.91	9.964e3	6.268e3	5.968e2	4.125e2	1.45	YES	0.000e0	0.00000	0.51806	0.217
5	Total Tetra-Dioxins	25.10	5.129e3	5.109e3	5.130e2	4.609e2	1.11	YES	0.000e0	0.00000	0.57880	0.217
6	Total Tetra-Dioxins	25.28	7.621e3	9.472e3	6.384e2	7.407e2	0.86	NO	1.379e3	0.97843	0.97843	0.217
7	Total Tetra-Dioxins	25.46	2.188e3	1.989e3	2.407e2	1.965e2	1.22	YES	0.000e0	0.00000	0.24683	0.217
8	Total Tetra-Dioxins	25.80	4.213e3	3.913e3	4.252e2	4.522e2	0.94	YES	0.000e0	0.00000	0.56785	0.217
9	Total Tetra-Dioxins	26.06	2.348e3	2.974e3	1.452e2	1.623e2	0.89	YES	0.000e0	0.00000	0.20379	0.217
10	Total Tetra-Dioxins	26.46	3.992e3	4.538e3	3.920e2	4.595e2	0.85	NO	8.514e2	0.60411	0.60411	0.217
11	2,3,7,8-TCDD	26.74	6.934e3	9.248e3	4.911e2	6.842e2	0.72	NO	1.175e3	0.83393	0.83393	0.217
12	Total Tetra-Dioxins	27.07	1.353e4	6.791e3	9.584e2	5.670e2	1.69	YES	0.000e0	0.00000	0.71204	0.217
13	Total Tetra-Dioxins	27.19	6.688e4	2.495e4	4.084e3	1.475e3	2.77	YES	0.000e0	0.00000	1.8520	0.217
14	Total Tetra-Dioxins	27.50	1.023e4	5.719e3	7.150e2	4.261e2	1.68	YES	0.000e0	0.00000	0.53508	0.217

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.91	5.633e4	9.439e4	4.240e3	7.418e3	0.57	NO	1.166e4	11.613	11.613	0.284
2	Total Penta-Dioxins	29.35	2.315e4	3.465e4	1.340e3	2.175e3	0.62	NO	3.515e3	3.5016	3.5016	0.284
3	Total Penta-Dioxins	29.82	3.377e4	5.557e4	1.999e3	3.162e3	0.63	NO	5.161e3	5.1418	5.1418	0.284
4	Total Penta-Dioxins	29.98	7.709e4	1.341e5	5.592e3	9.553e3	0.59	NO	1.514e4	15.086	15.086	0.284
5	Total Penta-Dioxins	30.25	3.058e4	4.377e4	2.511e3	3.733e3	0.67	NO	6.244e3	6.2203	6.2203	0.284
6	Total Penta-Dioxins	30.56	4.341e3	8.687e3	2.236e2	5.206e2	0.43	YES	0.000e0	0.00000	0.57642	0.284
7	1,2,3,7,8-PeCDD	30.98	9.943e4	1.703e5	6.345e3	9.052e3	0.70	NO	1.540e4	15.338	15.338	0.284
8	Total Penta-Dioxins	31.07	1.562e4	2.345e4	5.997e2	9.760e2	0.61	NO	1.576e3	1.5697	1.5697	0.284
9	Total Penta-Dioxins	31.33	1.353e4	1.907e4	8.784e2	1.195e3	0.74	YES	0.000e0	0.00000	1.9405	0.284

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-9.qld

Last Altered: Tuesday, June 13, 2023 12:45:18 Pacific Daylight Time
Printed: Tuesday, June 13, 2023 12:47:11 Pacific Daylight Time

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01, Task: ST230611R2_1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.59	2.288e6	1.827e6	1.327e5	1.057e5	1.26	NO	2.384e5	320.40	320.40	2.05
2	Total Hexa-Dioxins	33.21	1.847e5	1.533e5	1.149e4	9.006e3	1.28	NO	2.050e4	27.549	27.549	2.05
3	Total Hexa-Dioxins	33.51	2.448e6	1.926e6	1.815e5	1.407e5	1.29	NO	3.222e5	432.96	432.96	2.05
4	Total Hexa-Dioxins	33.61	2.884e5	2.383e5	1.809e4	1.695e4	1.07	NO	3.504e4	47.089	47.089	2.05
5	1,2,3,4,7,8-HxCDD	34.30	1.988e5	1.564e5	1.262e4	9.875e3	1.28	NO	2.250e4	30.701	30.701	1.96
6	1,2,3,6,7,8-HxCDD	34.42	1.434e6	1.173e6	1.028e5	8.079e4	1.27	NO	1.836e5	229.37	229.37	1.91
7	Total Hexa-Dioxins	34.58	8.654e4	7.412e4	6.628e3	5.257e3	1.26	NO	1.189e4	15.971	15.971	2.05
8	1,2,3,7,8,9-HxCDD	34.71	3.474e5	2.582e5	2.855e4	2.263e4	1.26	NO	5.118e4	68.685	68.685	2.18

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.19	3.617e7	3.497e7	2.421e6	2.395e6	1.01	NO	4.816e6	7243.3	7243.3	5.61
2	1,2,3,4,6,7,8-HpCDD	38.07	2.144e7	2.114e7	1.506e6	1.483e6	1.02	NO	2.989e6	4495.8	4495.8	5.61

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-9.qld

Last Altered: Tuesday, June 13, 2023 12:45:18 Pacific Daylight Time
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Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01, Task: ST230611R2_1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.98	4.743e3	1.032e4	4.247e2	6.195e2	0.69	NO	1.044e3	0.70876	0.70876	0.352
2	Total Tetra-Furans	22.71	1.717e4	2.689e4	1.046e3	1.816e3	0.58	YES	0.000e0	0.00000	1.6326	0.352
3	Total Tetra-Furans	22.84	8.200e4	1.334e5	7.544e3	1.192e4	0.63	YES	0.000e0	0.00000	11.770	0.352
4	Total Tetra-Furans	23.49	1.836e4	2.368e4	1.709e3	2.146e3	0.80	NO	3.855e3	2.6162	2.6162	0.352
5	Total Tetra-Furans	23.89	3.353e4	4.459e4	3.063e3	3.916e3	0.78	NO	6.979e3	4.7366	4.7366	0.352
6	Total Tetra-Furans	24.16	4.155e3	6.460e3	3.552e2	5.506e2	0.65	YES	0.000e0	0.00000	0.55413	0.352
7	Total Tetra-Furans	24.79	7.353e3	9.442e3	4.609e2	6.114e2	0.75	NO	1.072e3	0.72784	0.72784	0.352
8	Total Tetra-Furans	24.86	2.137e4	2.340e4	1.387e3	1.850e3	0.75	NO	3.236e3	2.1964	2.1964	0.352
9	Total Tetra-Furans	25.24	2.227e4	3.588e4	1.747e3	2.596e3	0.67	NO	4.343e3	2.9476	2.9476	0.352
10	Total Tetra-Furans	25.49	5.445e3	5.028e3	3.302e2	3.991e2	0.83	NO	7.293e2	0.49501	0.49501	0.352
11	Total Tetra-Furans	26.00	6.858e4	1.227e5	4.267e3	7.341e3	0.58	YES	0.000e0	0.00000	6.6570	0.352
12	2,3,7,8-TCDF	26.12	3.724e4	5.334e4	2.334e3	3.086e3	0.76	NO	5.419e3	3.6784	3.6784	0.352
13	Total Tetra-Furans	26.42	4.530e3	5.859e3	4.065e2	5.228e2	0.78	NO	9.294e2	0.63079	0.63079	0.352
14	Total Tetra-Furans	27.17	1.153e4	1.060e4	5.740e2	5.009e2	1.15	YES	0.000e0	0.00000	0.60170	0.352
15	Total Tetra-Furans	27.47	2.510e4	3.029e4	1.645e3	2.227e3	0.74	NO	3.873e3	2.6286	2.6286	0.352
16	Total Tetra-Furans	27.82	6.256e3	8.280e3	4.224e2	4.796e2	0.88	NO	9.020e2	0.61220	0.61220	0.352

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.45	2.585e6	1.657e6	1.463e5	9.238e4	1.58	NO	2.387e5	170.54	170.54	0.127

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-9.qld

Last Altered: Tuesday, June 13, 2023 12:45:18 Pacific Daylight Time
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Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01, Task: ST230611R2_1

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	1.966e4	1.510e4	1.275e3	8.212e2	1.55	NO	2.096e3	1.4979	1.4979	0.334
2	Total Penta-Furans	28.94	2.720e5	1.786e5	1.990e4	1.311e4	1.52	NO	3.302e4	23.592	23.592	0.334
3	Total Penta-Furans	29.52	1.085e5	6.824e4	7.457e3	4.491e3	1.66	NO	1.195e4	8.5371	8.5371	0.334
4	Total Penta-Furans	29.67	7.398e4	4.987e4	4.252e3	2.754e3	1.54	NO	7.005e3	5.0056	5.0056	0.334
5	1,2,3,7,8-PeCDF	29.85	1.648e5	1.117e5	9.068e3	5.532e3	1.64	NO	1.460e4	10.509	10.509	0.340
6	Total Penta-Furans	30.09	1.921e5	1.184e5	1.065e4	6.676e3	1.59	NO	1.732e4	12.377	12.377	0.334
7	2,3,4,7,8-PeCDF	30.83	3.599e5	2.172e5	2.133e4	1.266e4	1.68	NO	3.399e4	21.893	21.893	0.299
8	Total Penta-Furans	31.67	2.738e4	2.088e4	1.681e3	1.114e3	1.51	NO	2.795e3	1.9972	1.9972	0.334

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.06	1.080e6	8.721e5	5.413e4	4.510e4	1.20	NO	9.922e4	126.73	126.73	0.925
2	Total Hexa-Furans	32.23	1.968e6	1.674e6	1.118e5	9.515e4	1.17	NO	2.070e5	264.33	264.33	0.925
3	Total Hexa-Furans	32.66	1.853e4	1.633e4	1.224e3	1.182e3	1.04	YES	0.000e0	0.00000	2.8232	0.925
4	Total Hexa-Furans	32.88	2.666e6	2.244e6	1.538e5	1.297e5	1.19	NO	2.835e5	362.14	362.14	0.925
5	Total Hexa-Furans	33.23	1.874e4	1.314e4	1.148e3	9.161e2	1.25	NO	2.065e3	2.6369	2.6369	0.925
6	1,2,3,4,7,8-HxCDF	33.37	1.534e5	1.284e5	9.549e3	8.374e3	1.14	NO	1.792e4	22.156	22.156	0.773
7	1,2,3,6,7,8-HxCDF	33.50	1.219e5	9.716e4	7.986e3	6.750e3	1.18	NO	1.474e4	16.507	16.507	0.788
8	Total Hexa-Furans	33.83	8.656e3	8.097e3	6.065e2	5.900e2	1.03	YES	0.000e0	0.00000	1.3993	0.925
9	2,3,4,6,7,8-HxCDF	34.21	1.289e5	1.106e5	9.652e3	8.118e3	1.19	NO	1.777e4	23.233	23.233	0.924
10	1,2,3,7,8,9-HxCDF	35.29	5.577e4	4.955e4	4.936e3	4.139e3	1.19	NO	9.075e3	14.426	14.426	1.37

Hepta-Furans

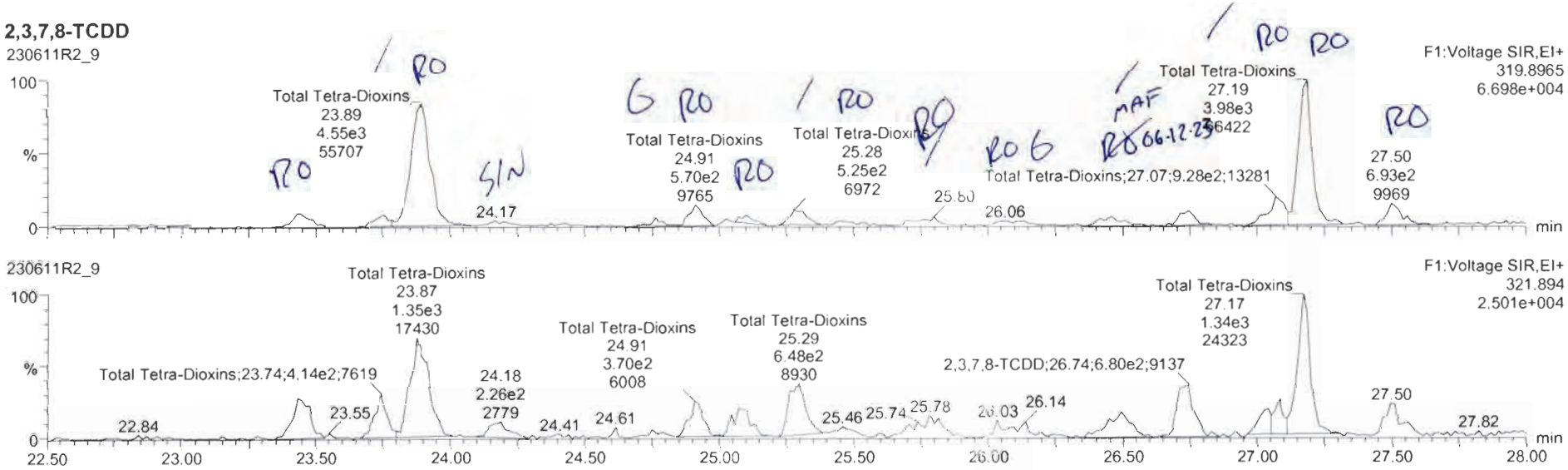
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.88	9.129e5	9.295e5	6.782e4	6.895e4	0.98	NO	1.368e5	262.44	262.44	1.31
2	Total Hepta-Furans	37.28	2.057e4	2.354e4	1.416e3	1.575e3	0.90	NO	2.992e3	6.6638	6.6638	1.62
3	Total Hepta-Furans	37.47	1.807e6	1.863e6	1.219e5	1.253e5	0.97	NO	2.472e5	550.69	550.69	1.62
4	1,2,3,4,7,8,9-HpCDF	38.77	2.924e4	3.200e4	2.437e3	2.691e3	0.91	NO	5.128e3	12.951	12.951	1.94

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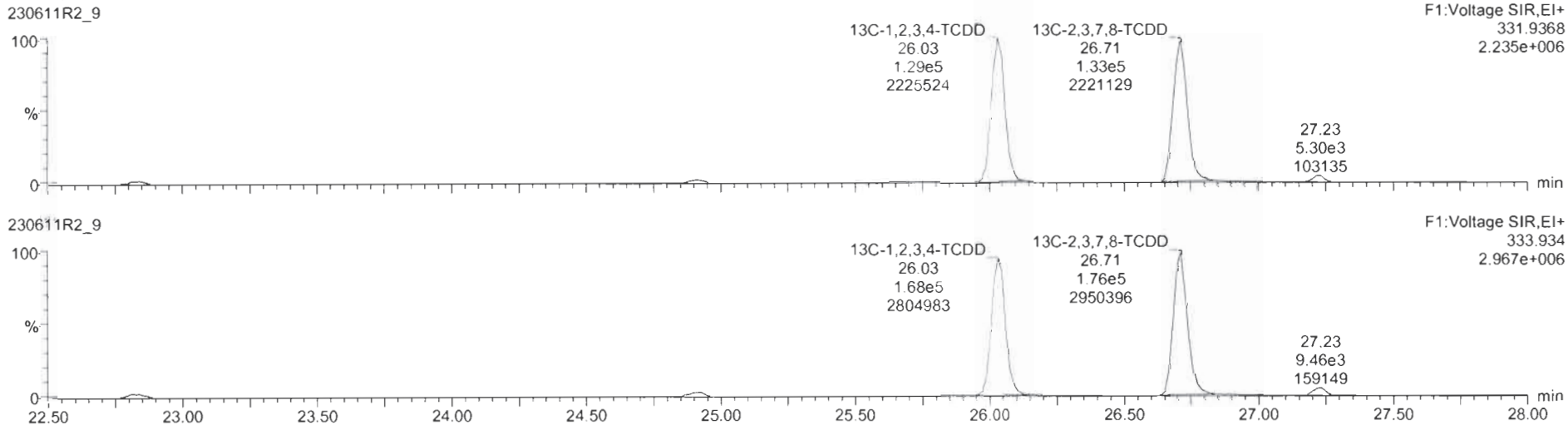
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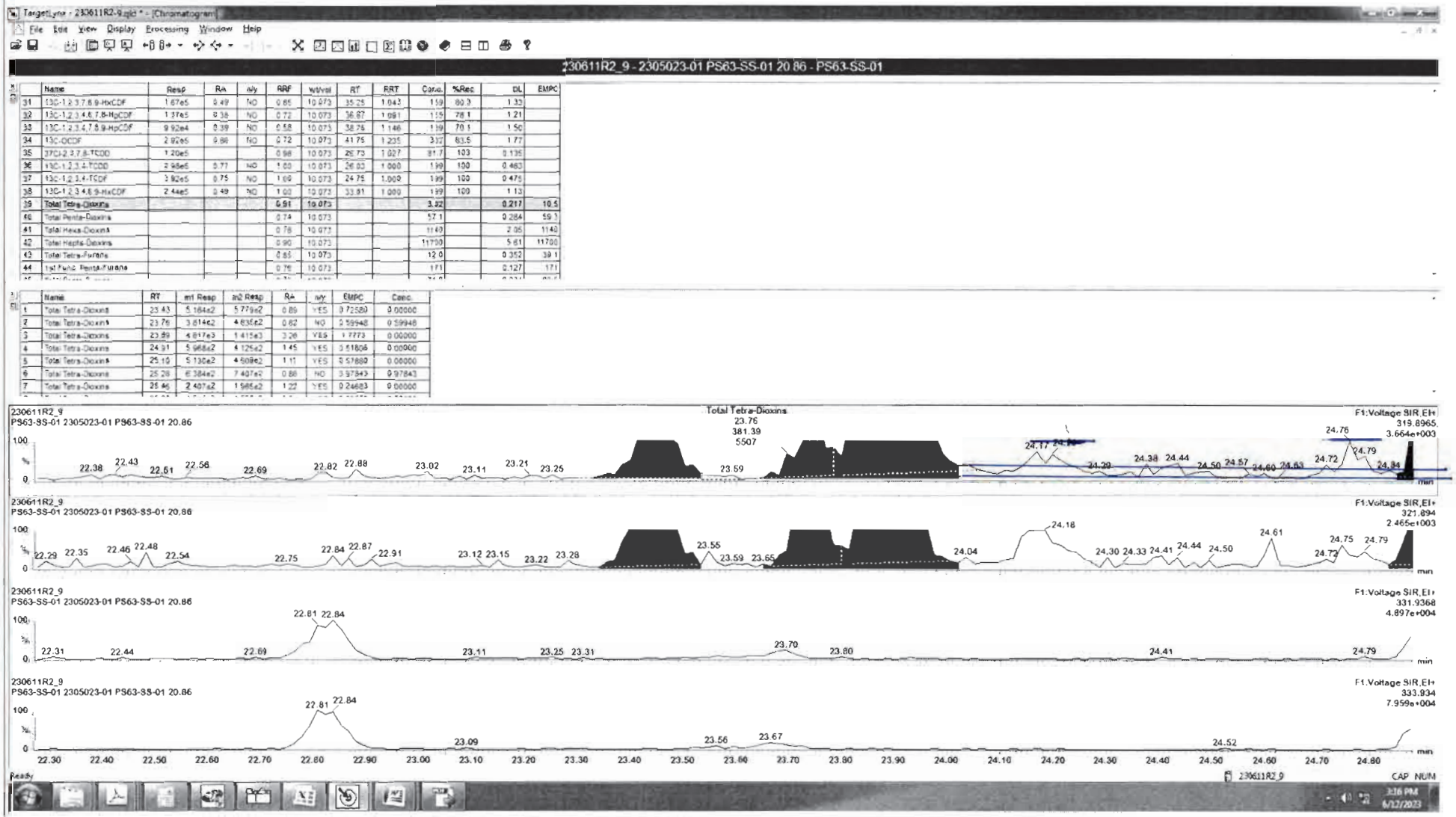
Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: **PS63-SS-01**

2,3,7,8-TCDD



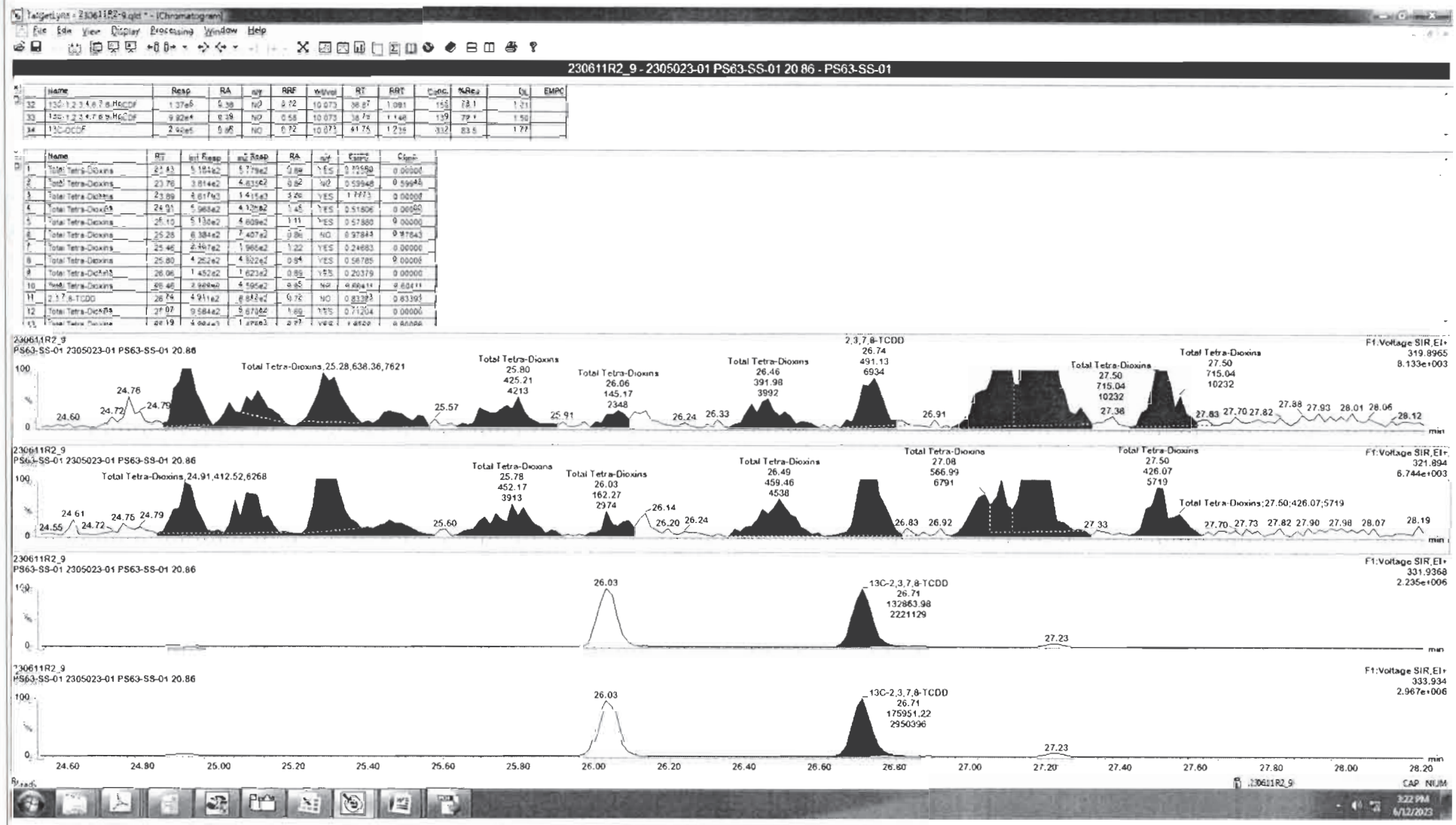
13C-2,3,7,8-TCDD





	Name	Resp	RA	iAy	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.67e5	0.49	NO	0.65	10.073	35.25	1.043	159	80.3	1.33	
32	13C-1,2,3,4,6,7,8-HpCDF	1.37e5	0.38	NO	0.72	10.073	36.87	1.091	155	78.1	1.21	
33	13C-1,2,3,4,7,8,9-HpCDF	9.92e4	0.39	NO	0.58	10.073	38.76	1.146	139	70.1	1.50	
34	13C-OCDF	2.92e5	0.86	NO	0.72	10.073	41.75	1.235	332	83.5	1.77	
35	37Cl-2,3,7,8-TCDD	1.20e5			0.98	10.073	25.73	1.027	81.7	103	0.135	
36	13C-1,2,3,4-TCDD	2.95e5	0.77	NO	1.00	10.073	26.03	1.000	199	100	0.463	
37	13C-1,2,3,4-TCDF	3.92e5	0.75	NO	1.00	10.073	24.75	1.000	199	100	0.475	
38	13C-1,2,3,4,6,9-HxCDF	2.44e5	0.49	NO	1.00	10.073	33.91	1.000	199	100	1.13	
39	Total Tetra-Dioxins				0.91	10.073			3.92		0.217	10.5
40	Total Penta-Dioxins				0.74	10.073			57.1		0.284	59.3
41	Total Hexa-Dioxins				0.78	10.073			1140		2.95	1140
42	Total Hepta-Dioxins				0.90	10.073			11700		5.61	11700
43	Total Tetra-Furans				0.85	10.073			12.0		0.352	39.1
44	Total Penta-Furans				0.76	10.073			171		0.127	171

	Name	RT	m1 Resp	m2 Resp	RA	iAy	EMPC	Conc.
1	Total Tetra-Dioxins	23.43	5.164e2	5.779e2	0.89	YES	0.72580	0.00000
2	Total Tetra-Dioxins	23.76	3.814e2	4.835e2	0.82	NO	0.59948	0.59948
3	Total Tetra-Dioxins	23.89	4.817e3	1.415e3	3.26	YES	1.7773	0.00000
4	Total Tetra-Dioxins	24.31	5.968e2	4.125e2	1.45	YES	0.51806	0.00000
5	Total Tetra-Dioxins	25.10	5.130e2	4.609e2	1.11	YES	0.57880	0.00000
6	Total Tetra-Dioxins	25.28	6.384e2	7.407e2	0.86	NO	0.97843	0.97843
7	Total Tetra-Dioxins	25.46	2.407e2	1.965e2	1.22	YES	0.24683	0.00000

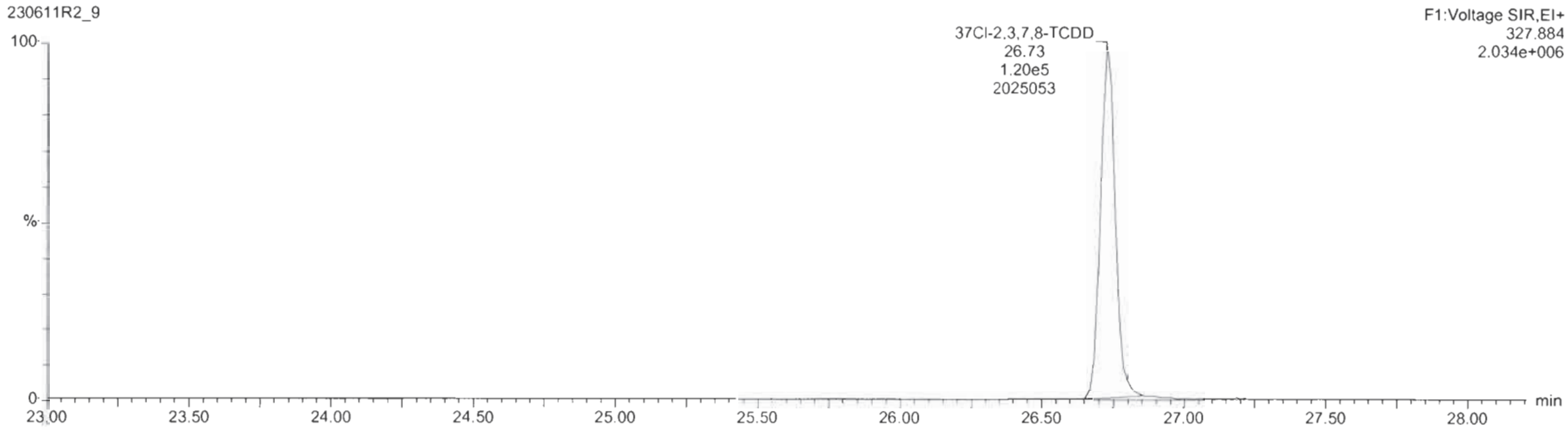

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230611R2_9 - 2305023-01 PS63-SS-01 20 86 - PS63-SS-01
Name Resp RA m/z RRF w/Wvol RT RRT Conc. %Rec DL EMPC
32 13C-1,2,3,4,6,7,8-HpCDF 1.37e6 9.38 no 0.72 10.073 36.87 1.081 155 78.1 1.21
33 13C-1,2,3,4,7,8,9-HpCDF 9.92e4 6.39 NO 0.58 10.073 38.73 1.148 139 79.1 1.58
34 13C-OCDF 2.92e5 9.95 NO 0.72 10.073 41.75 1.236 332 83.5 1.77
Name RT Int Resp Ind Resp RA m/z Conc.
1 Total Tetra-Dioxins 24.83 5.194e2 5.779e2 0.89 YES 0.00000
2 Total Tetra-Dioxins 23.76 3.814e2 4.835e2 0.82 no 0.59948
3 Total Tetra-Dioxins 23.89 8.617e3 1.411e3 5.26 YES 1.7773
4 Total Tetra-Dioxins 24.91 5.968e2 4.125e2 1.45 YES 0.51806
5 Total Tetra-Dioxins 25.10 5.130e2 4.609e2 1.11 YES 0.57880
6 Total Tetra-Dioxins 25.28 6.384e2 7.407e2 0.86 NO 0.97843
7 Total Tetra-Dioxins 25.46 2.397e2 1.966e2 1.22 YES 0.24683
8 Total Tetra-Dioxins 25.80 4.262e2 4.622e2 0.94 YES 0.58785
9 Total Tetra-Dioxins 26.06 1.452e2 1.623e2 0.89 YES 0.20379
10 Total Tetra-Dioxins 26.46 2.999e2 4.595e2 0.65 NO 0.58411
11 2,3,7,8-TCDD 26.74 4.911e2 6.882e2 0.72 NO 0.83393
12 Total Tetra-Dioxins 27.07 9.584e2 5.670e2 1.69 YES 0.71204
230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
Total Tetra-Dioxins,25.28,638.36,7621
Total Tetra-Dioxins 25.80 425.21 4213
Total Tetra-Dioxins 26.06 145.17 2348
Total Tetra-Dioxins 26.46 391.98 3992
2,3,7,8-TCDD 26.74 491.13 6934
Total Tetra-Dioxins 27.50 715.04 10232
Total Tetra-Dioxins 27.50 715.04 10232
F1:Voltage SIR,EI+ 319.8965 8.133e+003
230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
Total Tetra-Dioxins,24.91,412.52,6268
Total Tetra-Dioxins 25.78 452.17 3913
Total Tetra-Dioxins 26.03 162.27 2974
Total Tetra-Dioxins 26.49 459.46 4538
Total Tetra-Dioxins 27.08 566.99 6791
Total Tetra-Dioxins 27.50 426.07 5719
Total Tetra-Dioxins;27.50;426.07;5719
F1:Voltage SIR,EI+ 321.894 6.744e+003
230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
26.03
13C-2,3,7,8-TCDD 26.71 132863.98 2221129
27.23
F1:Voltage SIR,EI+ 331.9368 2.235e+006
230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
26.03
13C-2,3,7,8-TCDD 26.71 175951.22 2950396
27.23
F1:Voltage SIR,EI+ 333.934 2.967e+006
min
Ready
230611R2_9
CAP NUM
3:22 PM 6/12/2023

Dataset: Untitled

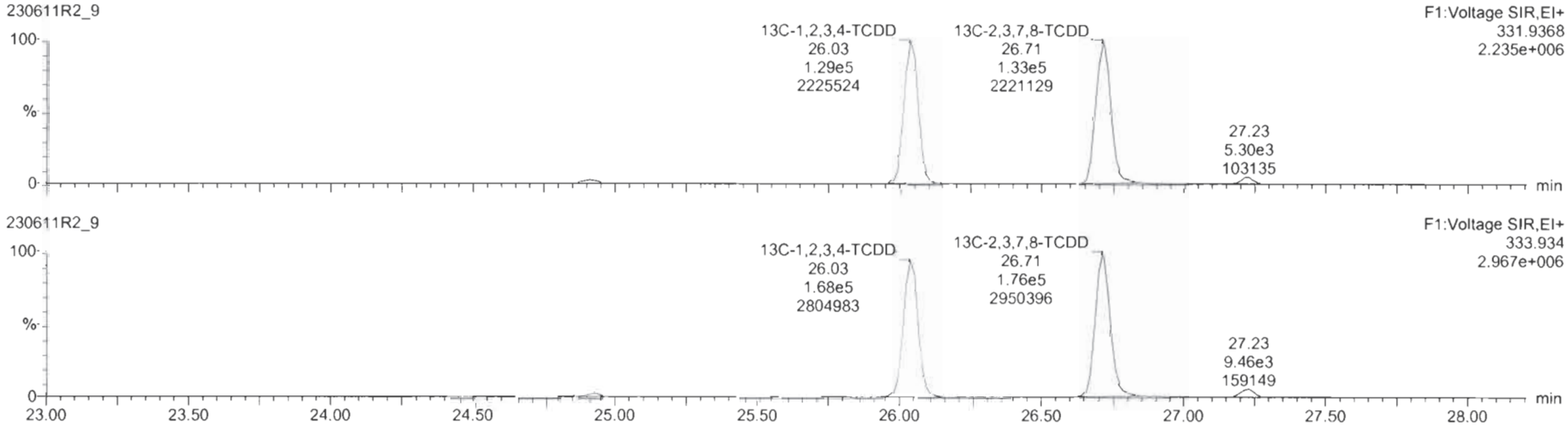
Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: **PS63-SS-01**

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



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

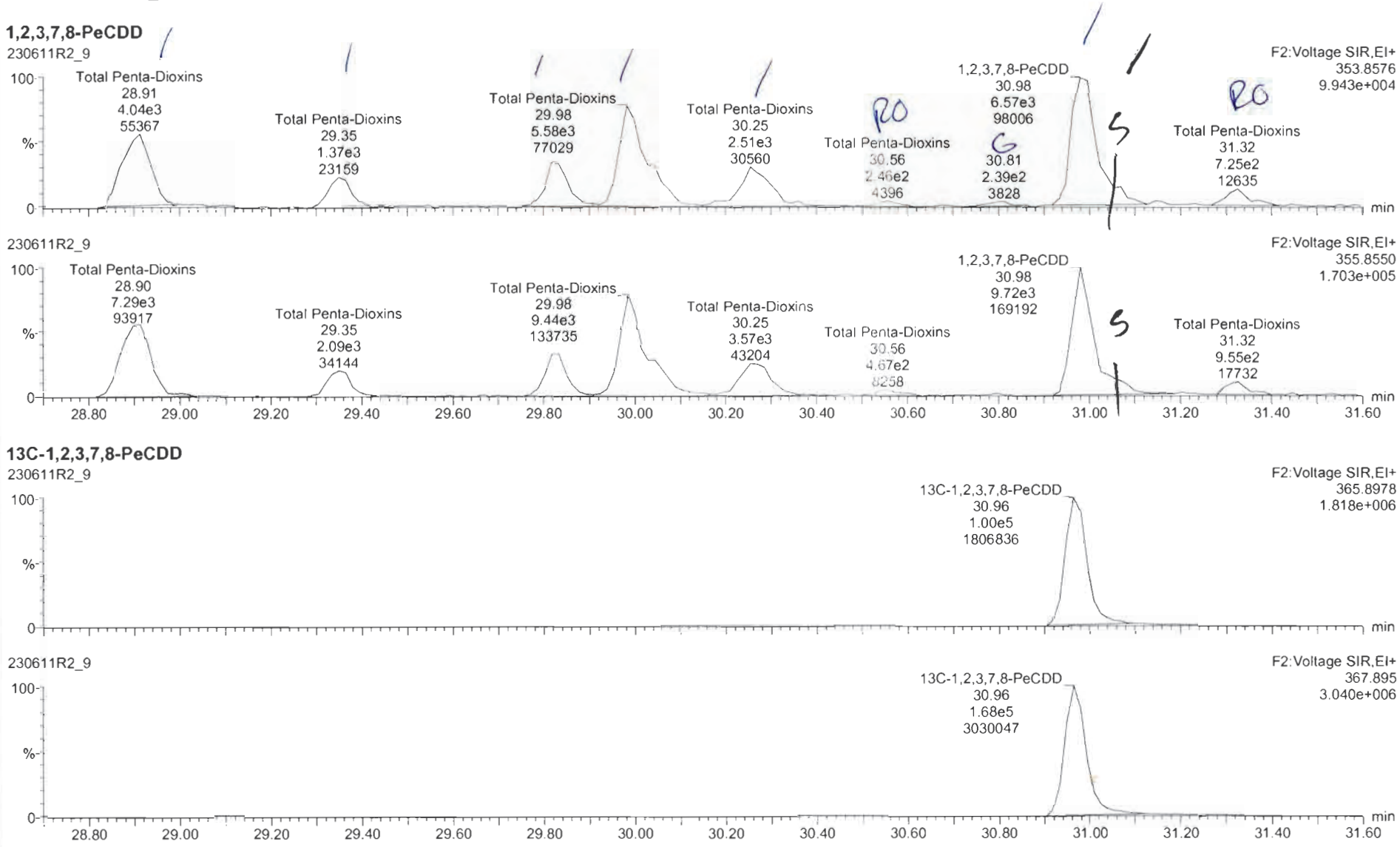


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Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01

1,2,3,7,8-PeCDD



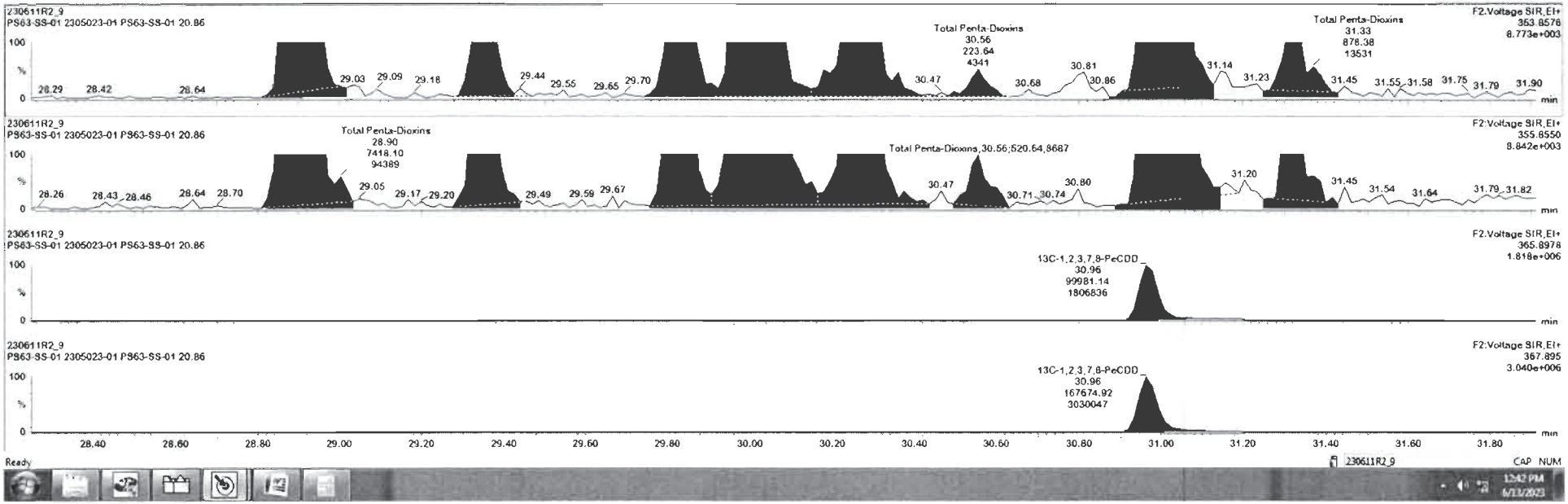
13C-1,2,3,7,8-PeCDD

TargetLynx - 230611R2-9.qld * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_9 - 2305023-01 PS63-SS-01 20.86 - PS63-SS-01

	Name	Resp	RA	n/y	RRF	w/v/d	RT	RRT	Conc.	%Rec	DL	EMPC
35	37Cl-2,3,7,8-TCDD	1.20e5			0.98	10.073	26.73	1.027	81.7	103	0.135	
36	13C-1,2,3,4-TCDD	2.98e5	0.77	NO	1.00	10.073	26.03	1.000	198.6	100	0.463	
37	13C-1,2,3,4-TCDF	3.92e5	0.75	NO	1.00	10.073	24.75	1.000	198.6	100	0.475	
38	13C-1,2,3,4,6,9-HxCDF	2.44e5	0.49	NO	1.00	10.073	33.81	1.000	198.6	100	1.13	
39	Total Tetra-Dioxins				0.91	10.073			3.0		0.217	18.7
40	**Total Penta-Dioxins**				**0.74**	**10.073**			**58.5**		**0.284**	**61.0**
41	Total Hexa-Dioxins				0.78	10.073			1172.7		2.05	1170
42	Total Hepta-Dioxins				0.90	10.073			11738.2		5.61	11700
43	Total Tetra-Furans				0.85	10.073			22.0		0.352	43.2
44	Tet Func Penta-Furans				0.76	10.073			170.5		0.127	171
45	Total Penta-Furans				0.76	10.073			85.4		0.334	85.4
46	Total Hexa-Furans				0.76	10.073			832.2		0.925	836
47	Total Hepta-Furans				0.75	10.073			832.7		1.62	840
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											



Ready 230611R2_9 CAP NUM

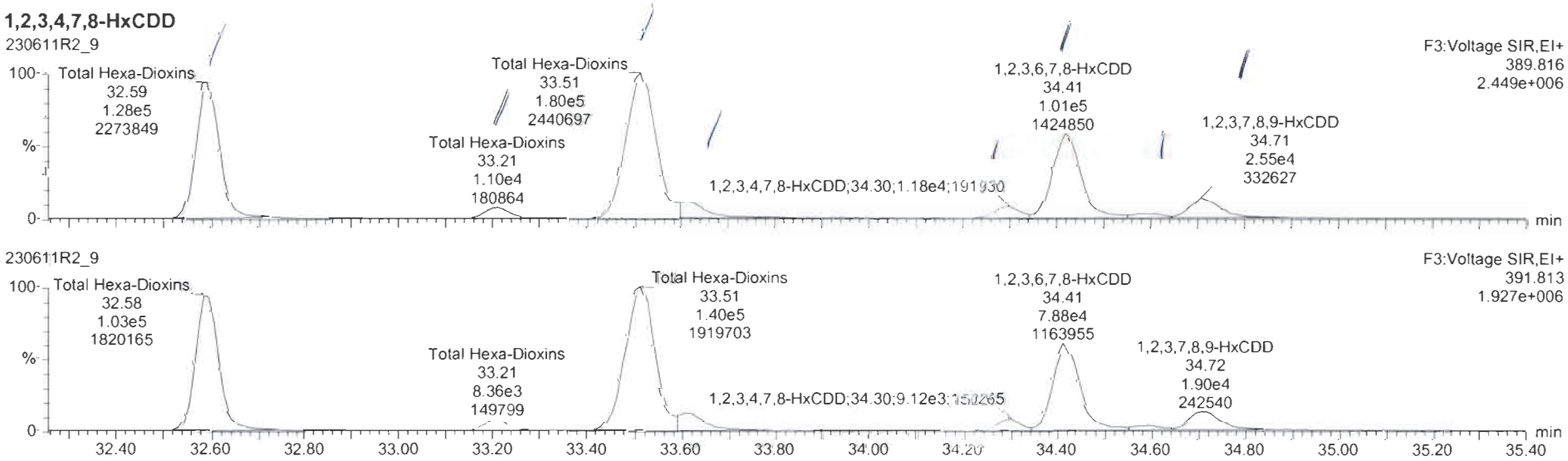
1242 PM 6/13/2023

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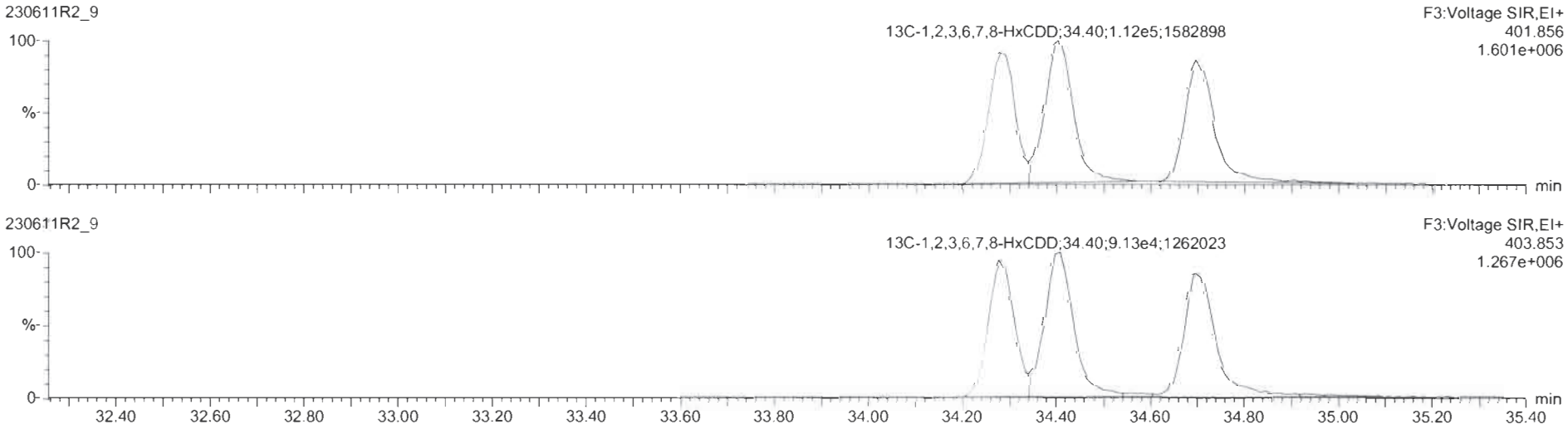
Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

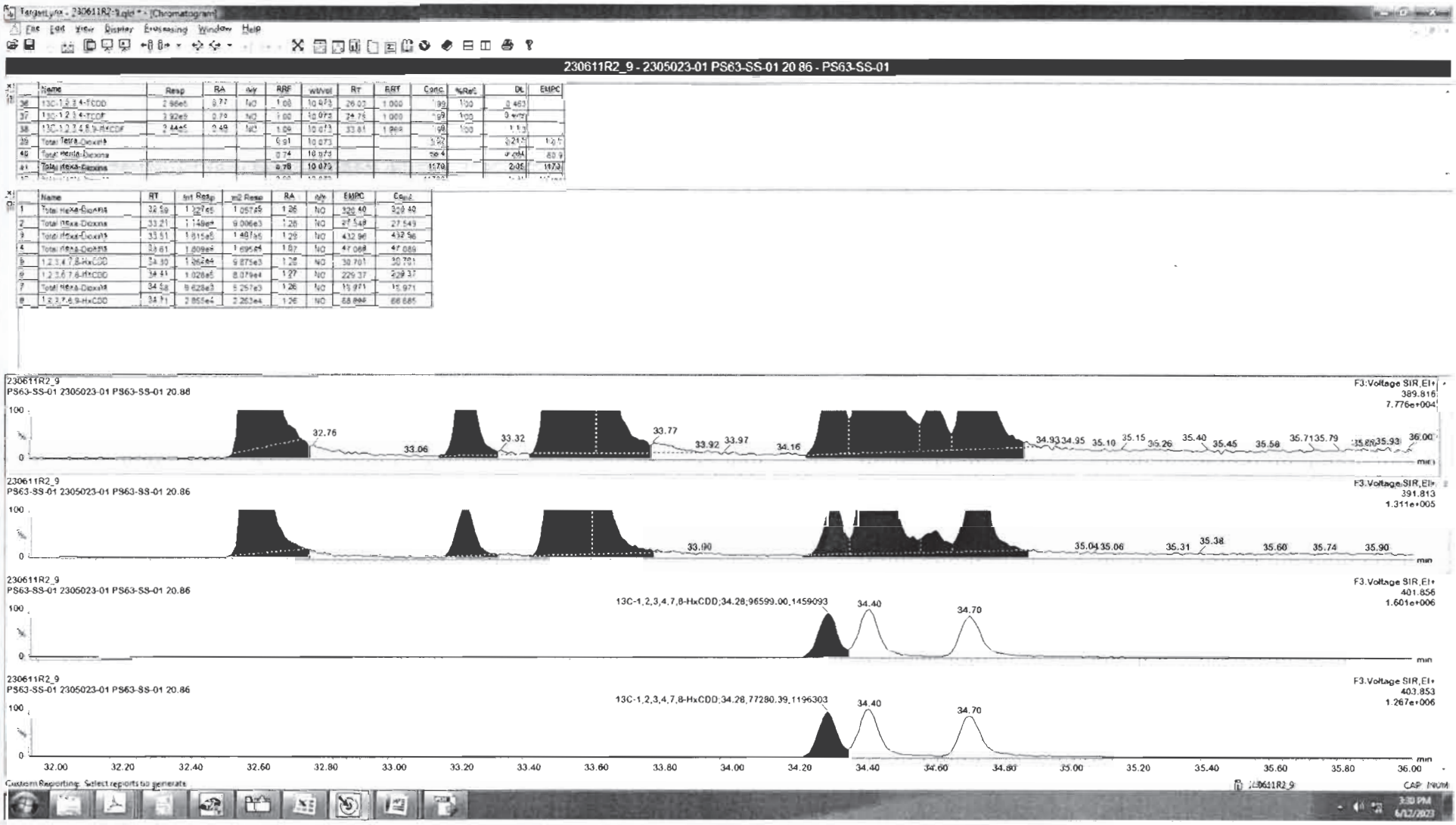
Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: **PS63-SS-01**

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



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



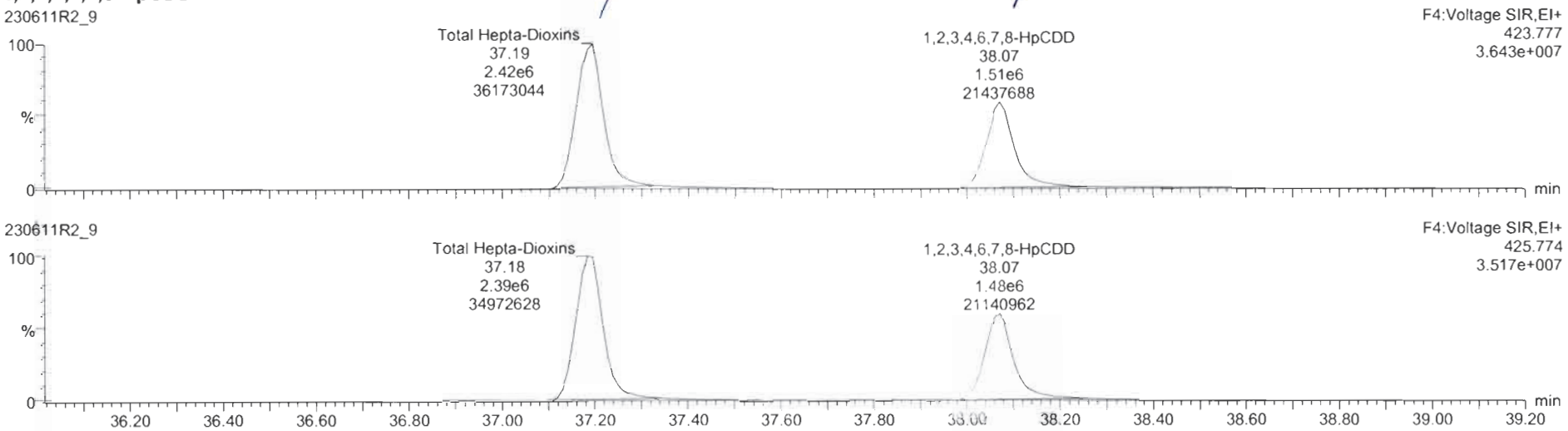

230611R2_9 - 2305023-01 PS63-SS-01 20.86 - PS63-SS-01
F3:Voltage SIR,EI+ 389.816 7.776e+004
F3:Voltage SIR,EI+ 391.813 1.311e+005
F3:Voltage SIR,EI+ 401.856 1.601e+006
13C-1,2,3,4,7,8-HxCDD;34.28;96599.00;1459093
F3:Voltage SIR,EI+ 403.853 1.267e+006
13C-1,2,3,4,7,8-HxCDD;34.28;77280.39;1196303
Custom Reporting: Select reports to generate

Dataset: Untitled

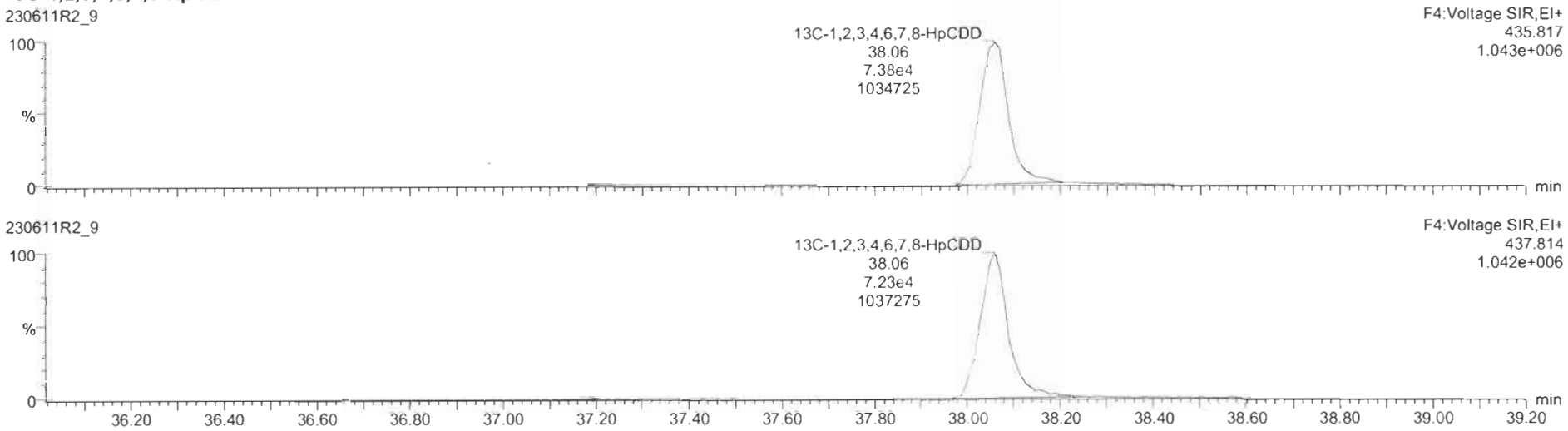
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01

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



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

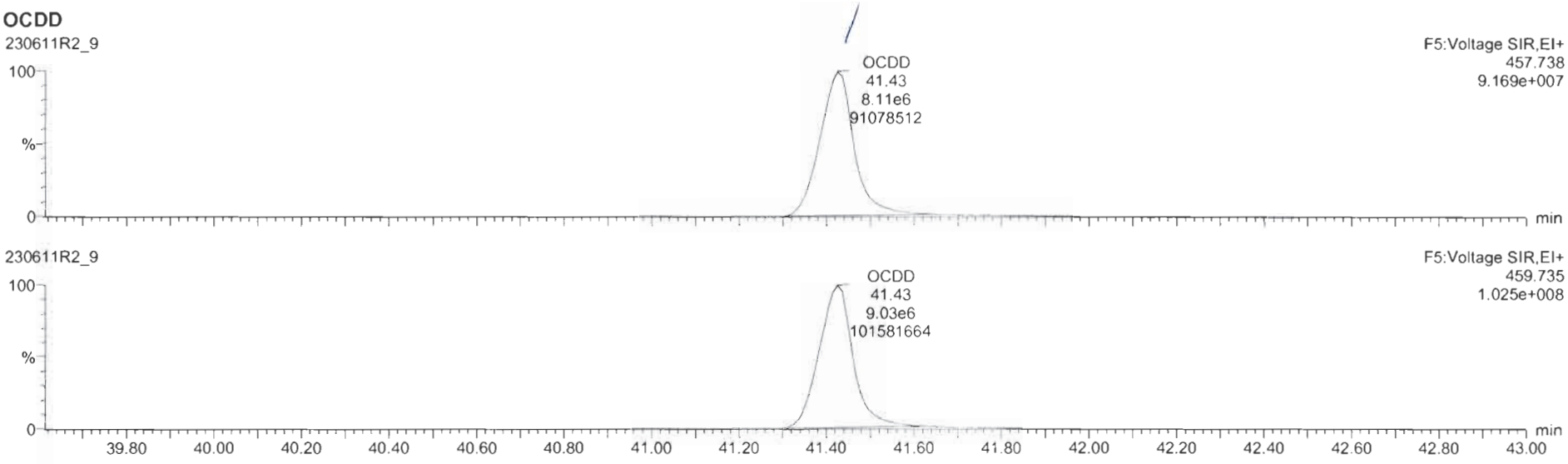


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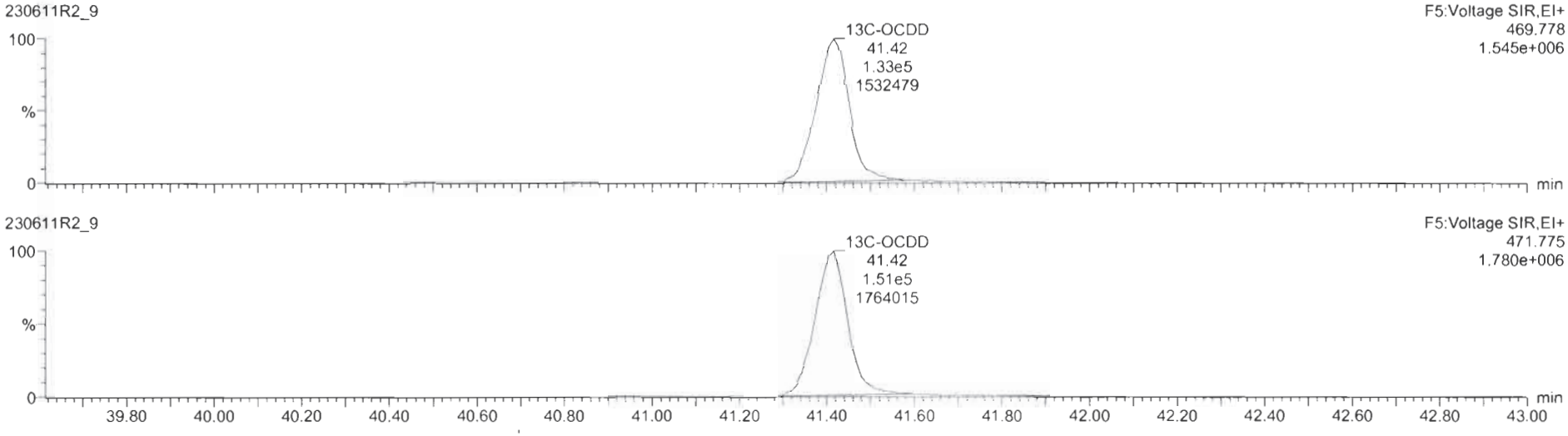
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: **PS63-SS-01**

OCDD



13C-OCDD

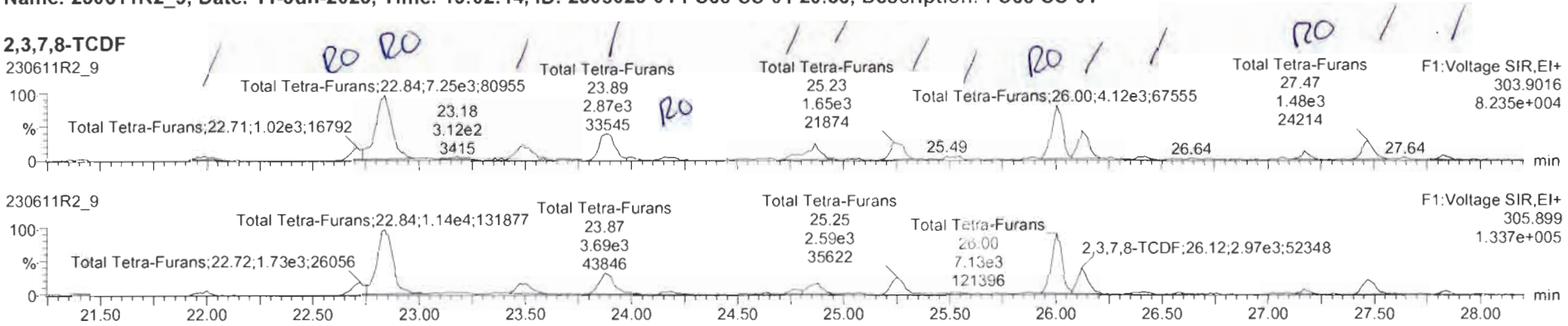


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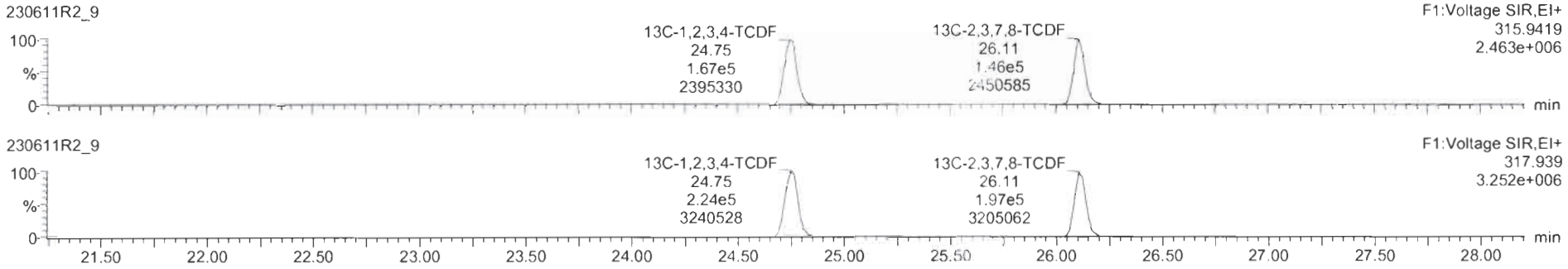
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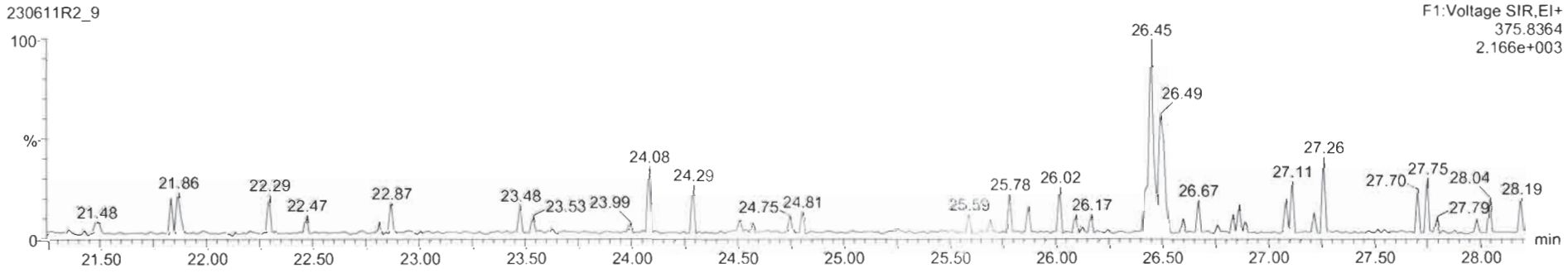
2,3,7,8-TCDF

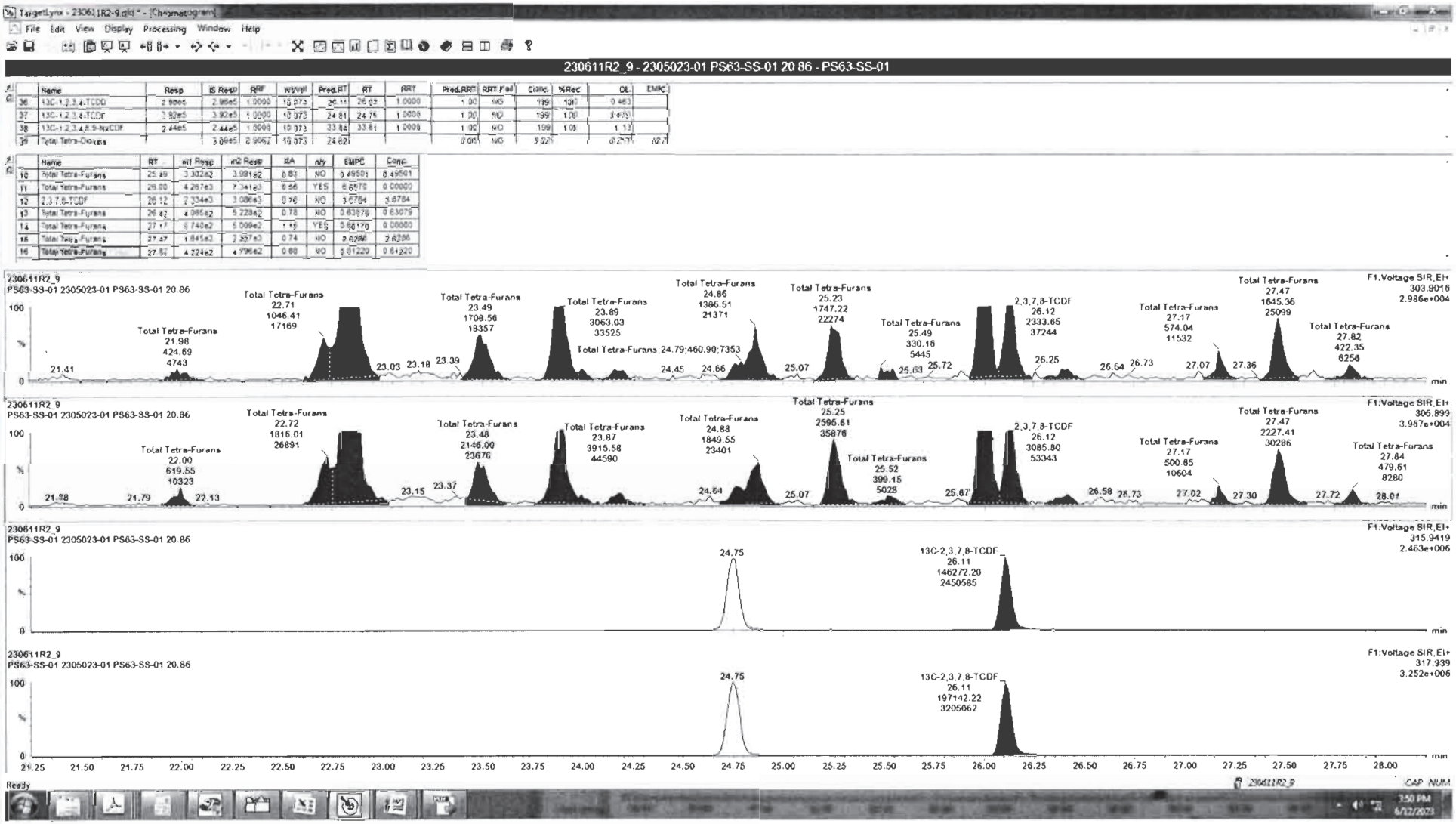


13C-2,3,7,8-TCDF



DPE1





	Name	Resp	IS Resp	RRF	Wt/Vol	Pred.RT	RT	RRT	Pred.RRT	RRT Fail	Conc.	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	2.98e5	2.98e5	1.0000	10.073	26.11	26.05	1.0000	1.00	NO	199	100	0.463	
37	13C-1,2,3,4-TCDF	3.92e5	3.92e5	1.0000	10.073	24.81	24.75	1.0000	1.00	NO	199	100	0.675	
38	13C-1,2,3,4,8,9-HxCDF	2.44e5	2.44e5	1.0000	10.073	33.84	33.81	1.0000	1.00	NO	199	100	1.13	
39	Total Tetra-Dioxins		3.08e5	0.9062	10.073	24.62			0.993	NO	3.02		0.2471	0.7

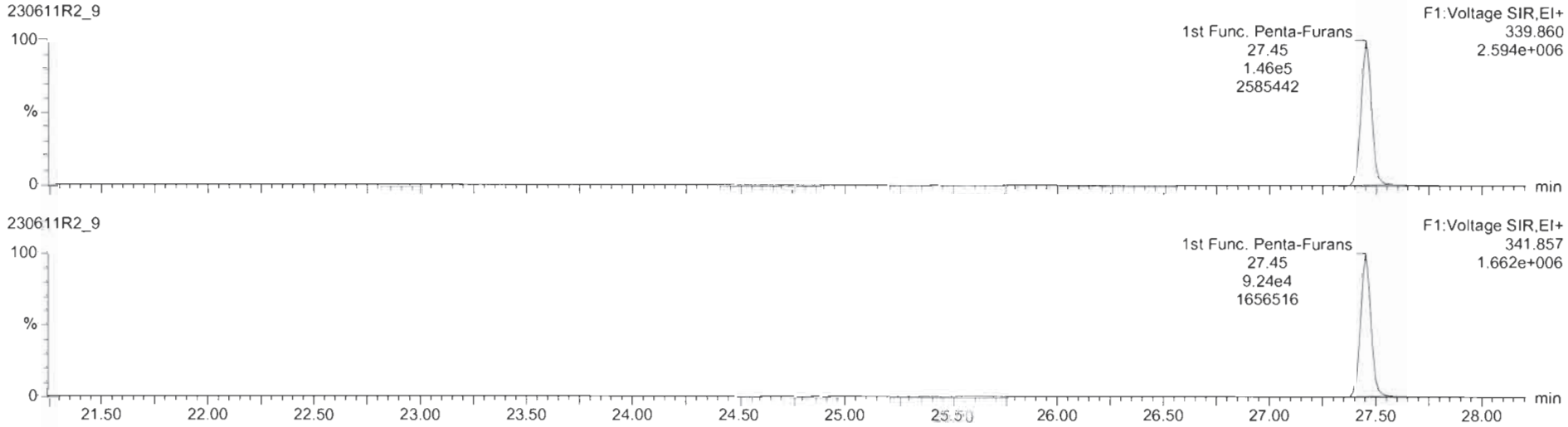
	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
10	Total Tetra-Furans	25.49	3.302e2	3.991e2	0.83	NO	0.49501	0.49501
11	Total Tetra-Furans	26.00	4.267e3	7.341e3	0.58	YES	6.6578	0.00000
12	2,3,7,8-TCDF	26.12	2.334e3	3.086e3	0.76	NO	3.6784	3.6784
13	Total Tetra-Furans	26.42	4.085e2	5.228e2	0.78	NO	0.63079	0.63079
14	Total Tetra-Furans	27.17	5.740e2	5.009e2	1.15	YES	0.66170	0.00000
15	Total Tetra-Furans	27.47	1.845e3	2.497e3	0.74	NO	2.6286	2.6286
16	Total Tetra-Furans	27.82	4.224e2	4.796e2	0.88	NO	0.61220	0.61220

Dataset: Untitled

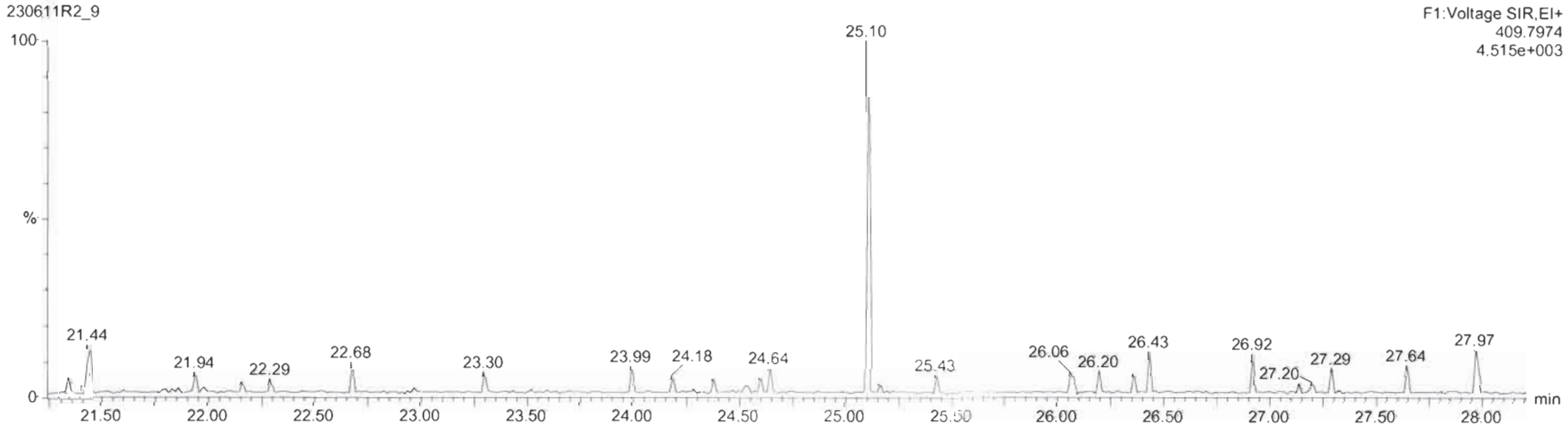
Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: **PS63-SS-01**

1st Func. Penta-Furans



DPE6

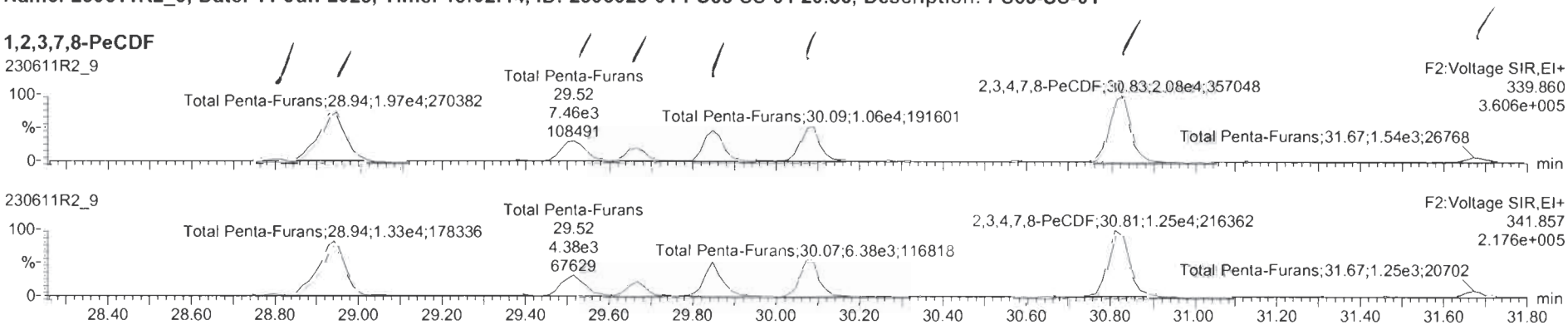


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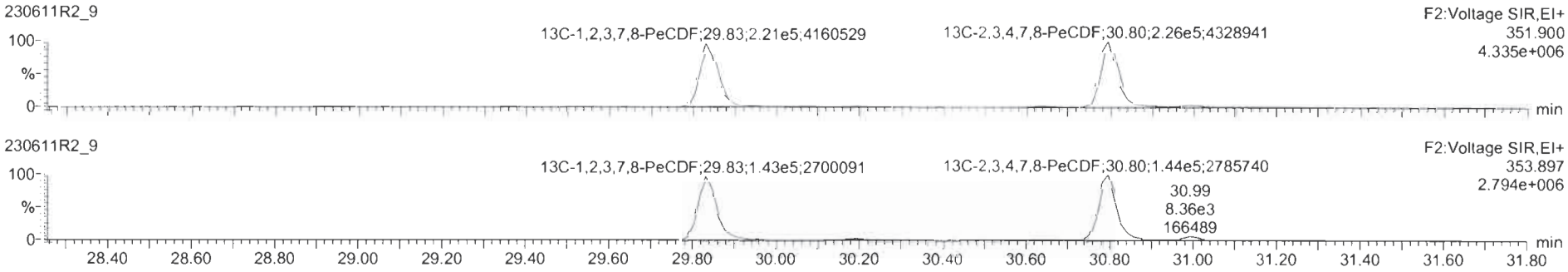
Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
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Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01

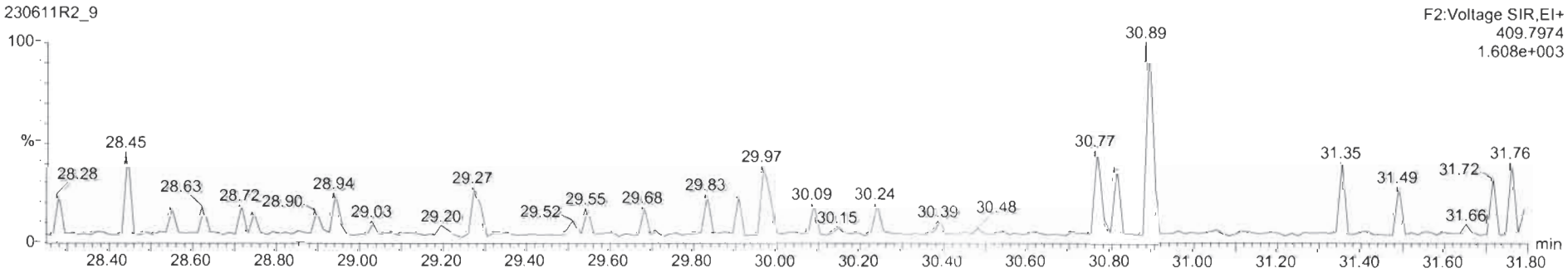
1,2,3,7,8-PeCDF

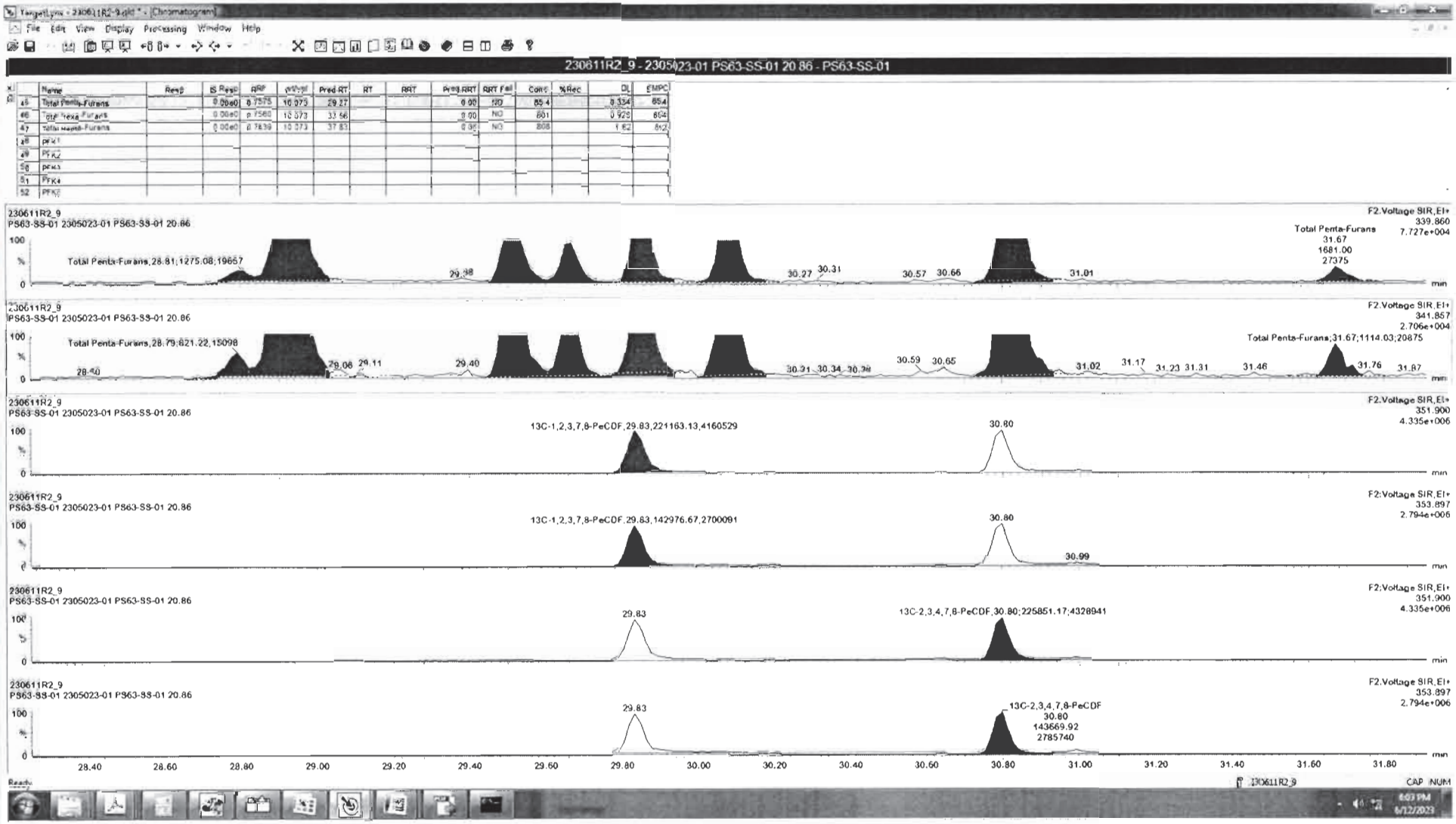


13C-1,2,3,7,8-PeCDF



DPE2



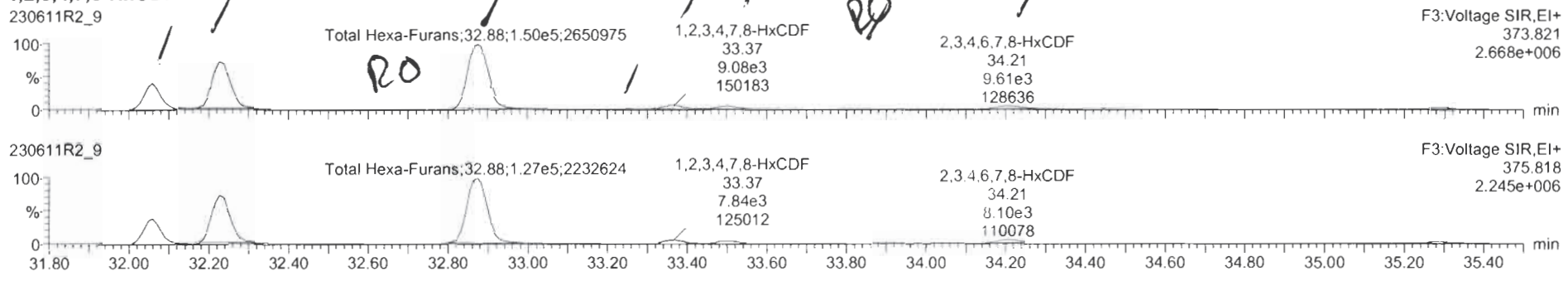

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File Edit View Display Processing Window Help
230611R2_9 - 2305023-01 PS63-SS-01 20.86 - PS63-SS-01
Name Resp IS Resp RRF Weight Pred RT RT RRT Pred RRT RRT Fail Conc %Rec DL EMPC
45 Total Penta-Furans 0.00e0 0.7575 10.073 29.27 0.00 ND 854 0.334 854
46 Total Hexa-Furans 0.00e0 0.7560 10.073 33.56 0.00 NO 861 0.929 864
47 Total Hepta-Furans 0.00e0 0.7839 10.073 37.83 0.00 NO 808 1.62 812
48 PFK1
49 PFK2
50 PFK3
51 PFK4
52 PFK5
230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
F2:Voltage SIR,EI+
339.860
7.727e+004
Total Penta-Furans,28.81;1275.08;19667
Total Penta-Furans
31.67
1681.00
27375
230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
F2:Voltage SIR,EI+
341.857
2.706e+004
Total Penta-Furans,28.79;621.22;15098
Total Penta-Furans;31.67;1114.03;20875
230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
F2:Voltage SIR,EI+
351.900
4.335e+006
13C-1,2,3,7,8-PeCDF,29.83,221163.13,4160529
30.80
230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
F2:Voltage SIR,EI+
353.897
2.794e+006
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PS63-SS-01 2305023-01 PS63-SS-01 20.86
F2:Voltage SIR,EI+
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230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
F2:Voltage SIR,EI+
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2.794e+006
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13C-2,3,4,7,8-PeCDF
30.80
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2785740
28.40 28.60 28.80 29.00 29.20 29.40 29.60 29.80 30.00 30.20 30.40 30.60 30.80 31.00 31.20 31.40 31.60 31.80
min
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CAP NUM
6:03 PM
6/12/2023

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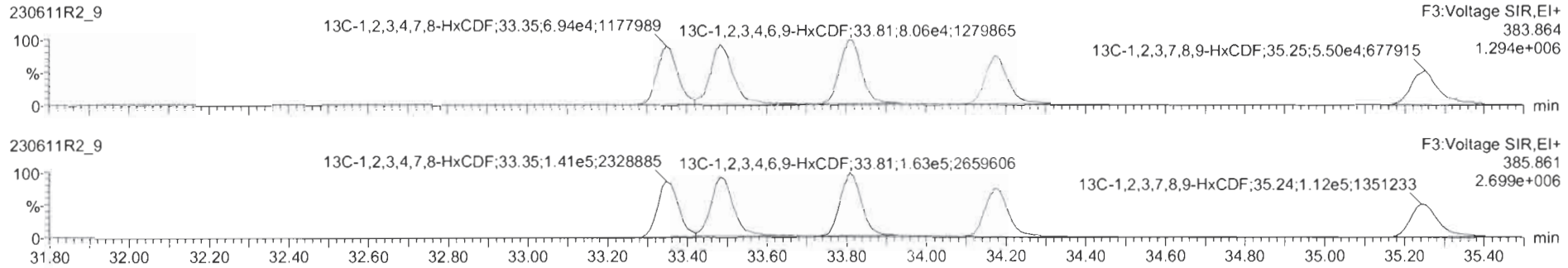
Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: **PS63-SS-01**

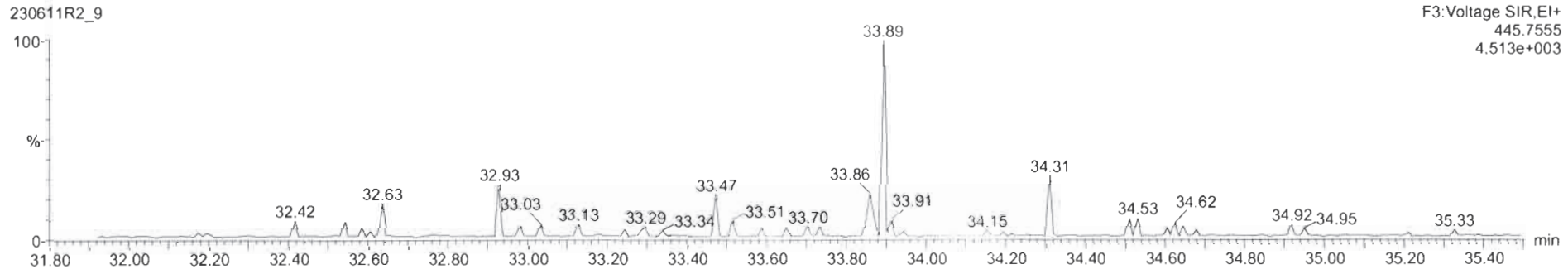
1,2,3,4,7,8-HxCDF

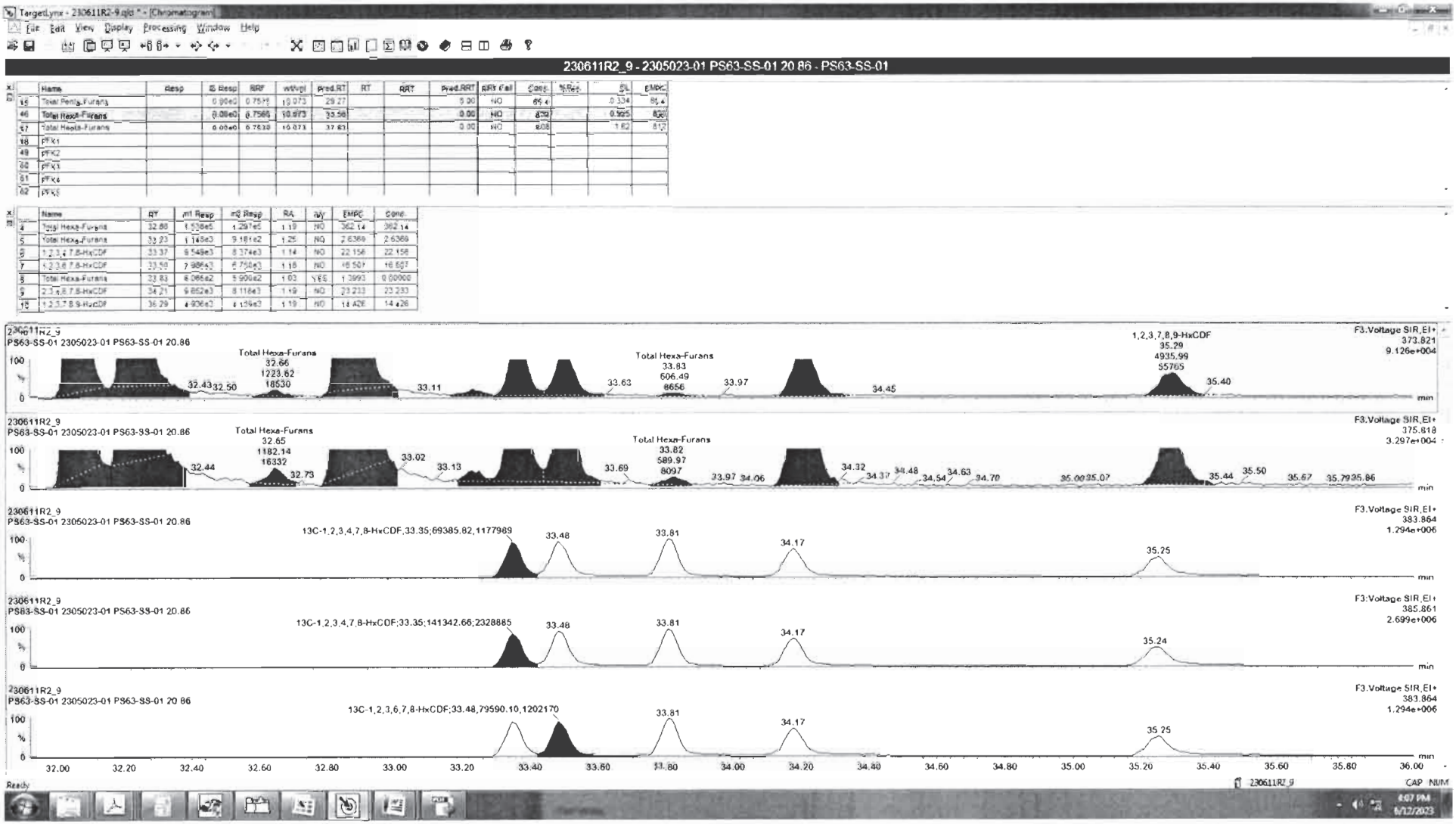


13C-1,2,3,4,7,8-HxCDF



DPE3



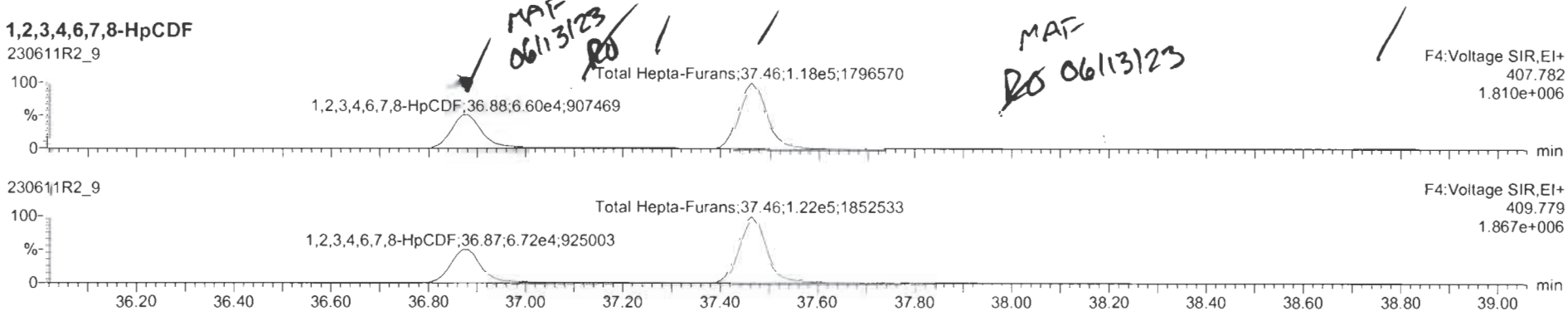

TargetLynx - 230611R2-9.qld * - [Chromatogram]
File Edit View Display Processing Window Help
230611R2_9 - 2305023-01 PS63-SS-01 20.86 - PS63-SS-01
Name Resp % Resp RRF w/w/pl Pred.RT RT RRT Pred.RRT RRT Fail Conc. %Rec. SL EMPC
15 Total Penta-Furans 0.00e0 0.7515 10.973 29.27 0.00 NO 85.4 0.334 85.4
46 Total Hexa-Furans 0.00e0 0.7566 10.973 33.56 0.00 NO 839 0.925 839
47 Total Hepta-Furans 0.00e0 0.7639 10.973 37.83 0.00 NO 808 1.82 817
48 PFK1
49 PFK2
50 PFK3
51 PFK4
52 PFK5
Name RT m1 Resp m2 Resp RA rW EMPC Conc.
4 Total Hexa-Furans 32.88 1.538e5 1.297e5 1.19 NO 362.14 362.14
5 Total Hexa-Furans 33.23 1.148e3 9.181e2 1.25 NO 2.6369 2.6369
6 1,2,3,4,7,8-HxCDF 33.37 8.548e3 8.374e3 1.14 NO 22.156 22.156
7 1,2,3,6,7,8-HxCDF 33.50 7.986e3 6.758e3 1.18 NO 16.507 16.507
8 Total Hexa-Furans 33.83 6.066e2 5.900e2 1.03 YES 1.3993 0.00000
9 2,3,4,6,7,8-HxCDF 34.21 9.852e3 8.118e3 1.19 NO 23.233 23.233
10 1,2,3,7,8,9-HxCDF 36.29 6.406e3 6.129e3 1.19 NO 14.426 14.426
230611R2_9
PS63-SS-01 2305023-01 PS63-SS-01 20.86
Total Hexa-Furans 32.66 1223.62 18530
Total Hexa-Furans 33.83 606.49 8656
1,2,3,7,8,9-HxCDF 35.29 4935.99 55765
F3:Voltage SIR,EI+ 373.821 9.126e+004
Total Hexa-Furans 32.65 1182.14 16332
Total Hexa-Furans 33.82 589.97 8097
F3:Voltage SIR,EI+ 375.818 3.297e+004
13C-1,2,3,4,7,8-HxCDF;33.35;69385.82,1177969
F3:Voltage SIR,EI+ 383.864 1.294e+006
13C-1,2,3,4,7,8-HxCDF;33.35;141342.66;2328885
F3:Voltage SIR,EI+ 385.861 2.699e+006
13C-1,2,3,6,7,8-HxCDF;33.48;79590.10,1202170
F3:Voltage SIR,EI+ 383.864 1.294e+006
min
Ready
CAP NUM

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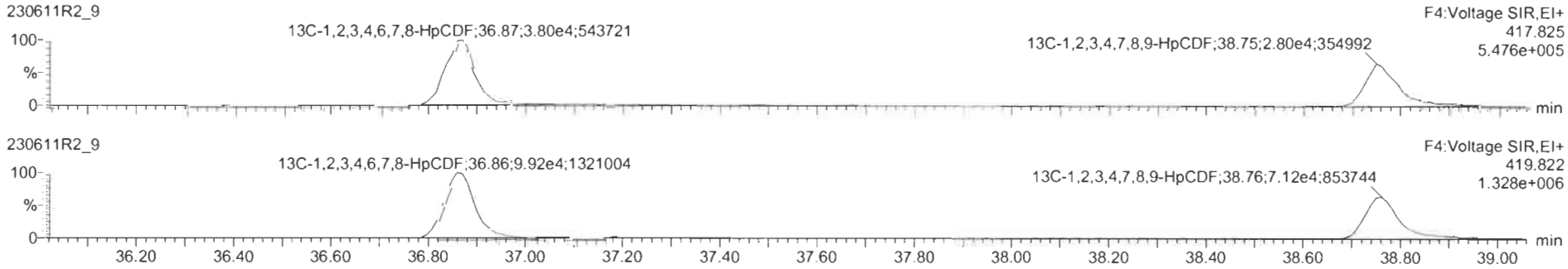
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

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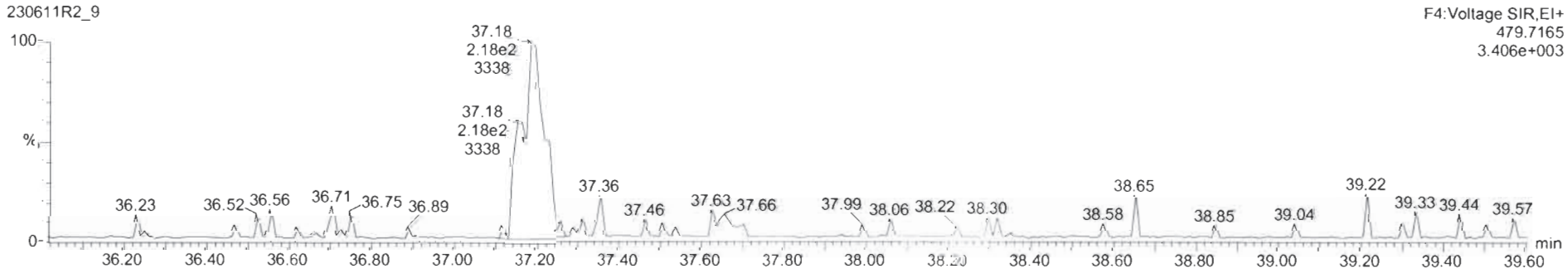
1,2,3,4,6,7,8-HpCDF

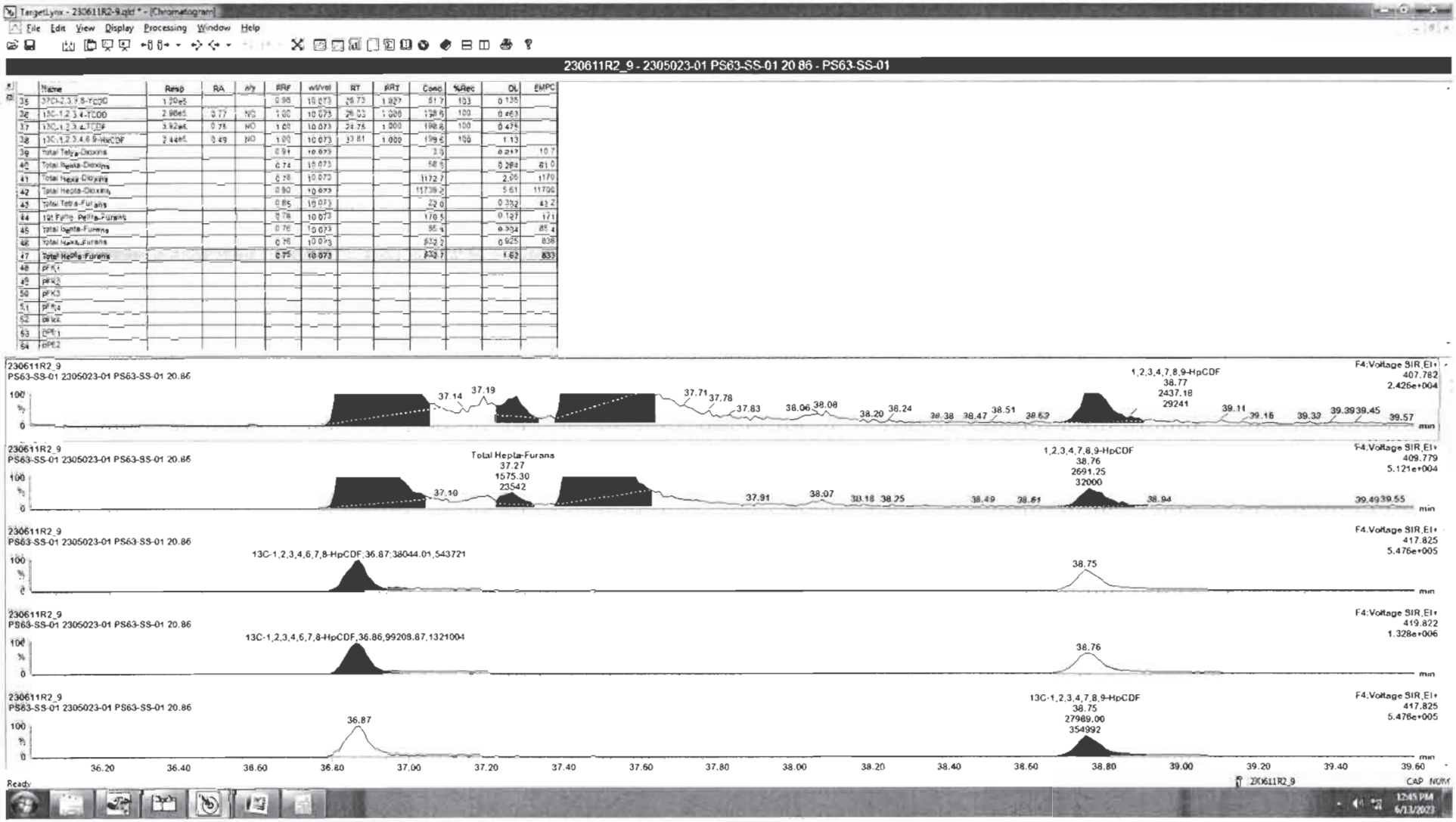


13C-1,2,3,4,6,7,8-HpCDF



DPE4





	Name	Resp	RA	A/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
35	37Cl-2,3,7,8-TCDD	1.30e5			0.95	10.073	26.73	1.027	51.7	103	0.135	
36	13C-1,2,3,4-TCDD	2.98e5	0.77	NO	1.00	10.073	26.03	1.000	158.6	100	0.463	
37	13C-1,2,3,4-TCDF	3.82e5	0.78	NO	1.00	10.073	24.75	1.000	190.8	100	0.475	
38	13C-1,2,3,4,6,7,8-HpCDF	2.44e5	0.49	NO	1.00	10.073	37.81	1.000	199.6	100	1.13	
39	Total Tetra-Dioxins				0.91	10.073			3.9		0.217	10.7
40	Total Penta-Dioxins				0.74	10.073			58.5		0.282	61.0
41	Total Hexa-Dioxins				0.78	10.073			1172.7		2.06	1170
42	Total Hepta-Dioxins				0.80	10.073			11739.2		5.61	11700
43	Total Tetra-Furans				0.85	10.073			22.0		0.352	43.2
44	Total Penta-Furans				0.78	10.073			170.5		0.127	171
45	Total Hepta-Furans				0.76	10.073			86.4		0.934	85.4
46	Total Hexa-Furans				0.76	10.073			832.3		0.925	836
47	Total Hepta-Furans				0.75	10.073			832.7		1.62	833
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											

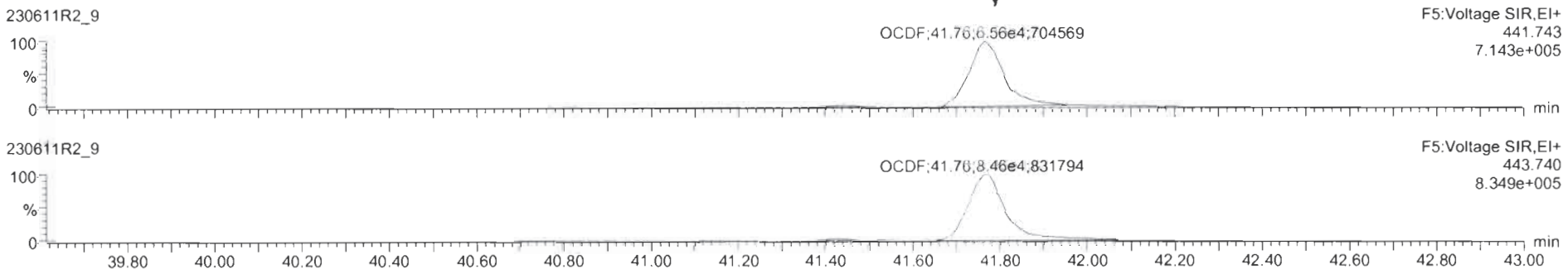
Enthalpy Analytical EDH VG-12

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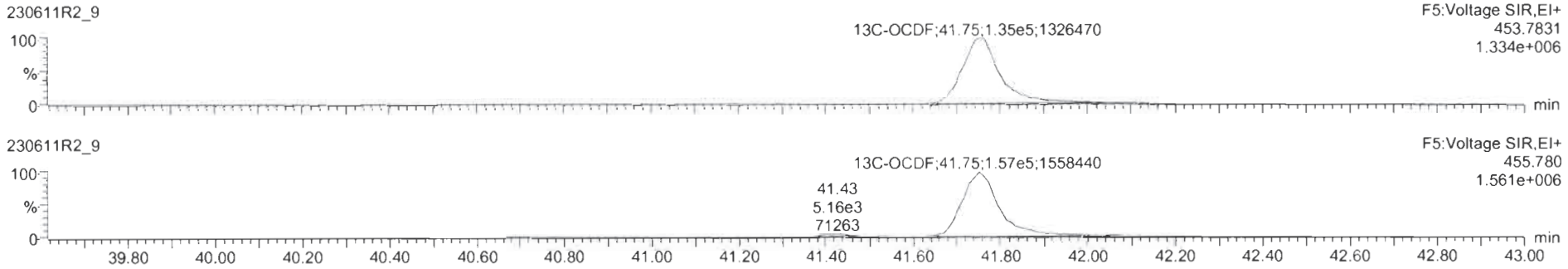
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_9, Date: 11-Jun-2023, Time: 19:02:14, ID: 2305023-01 PS63-SS-01 20.86, Description: PS63-SS-01

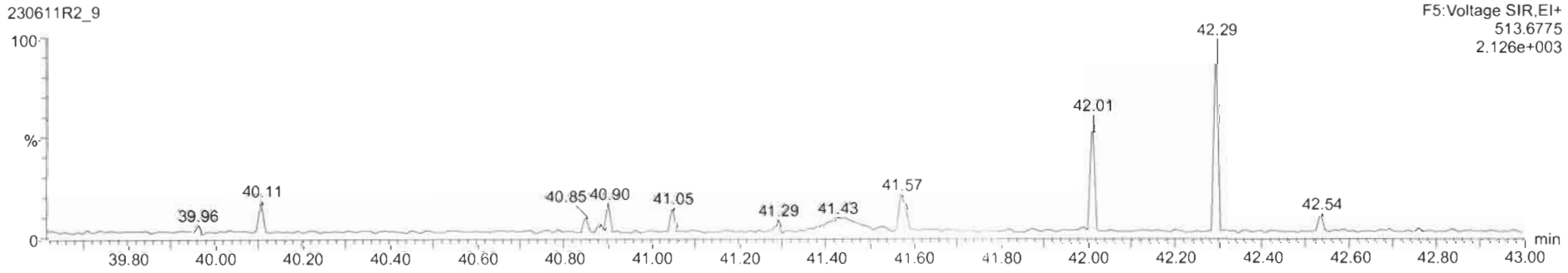
OCDF



13C-OCDF



DPE5



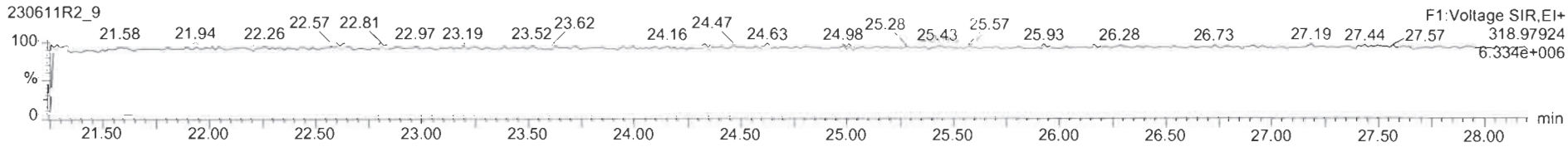
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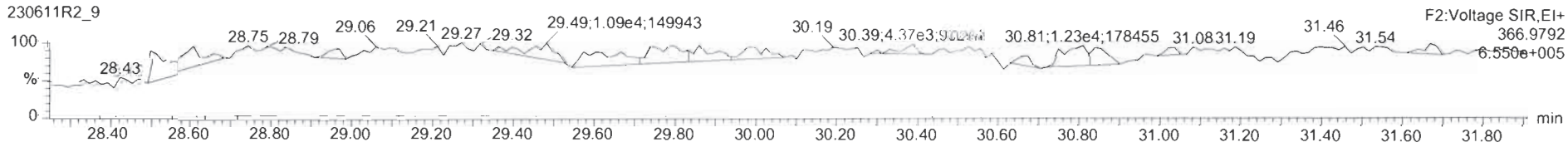
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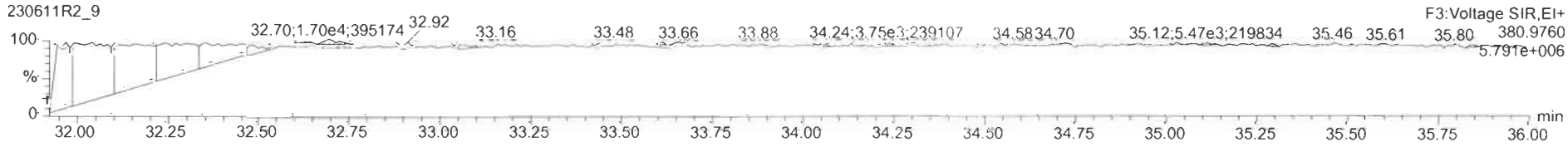
PFK1



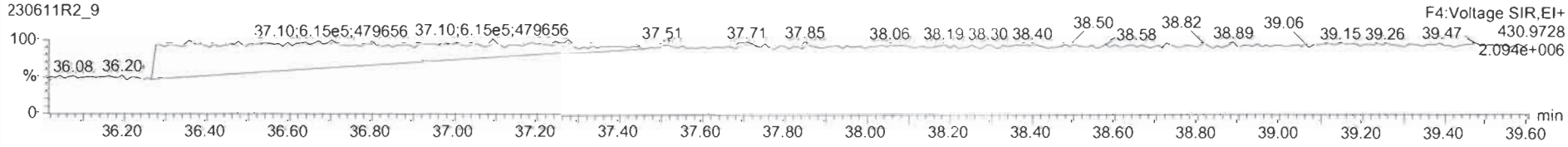
PFK2



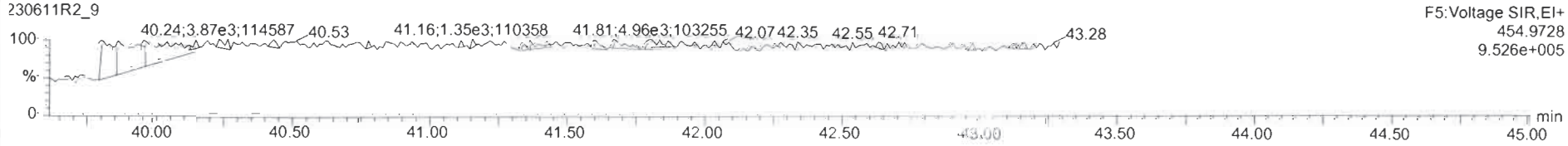
PFK3



PFK4



PFK5



Enthalpy Analytical VG-10

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06/14/23

MAF 06/13/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-12-23.cdb 13 Jun 2023 09:11:49

Name: 230612R5_17, Date: 13-Jun-2023, Time: 06:52:26, ID: 2305023-01@10X PS63-SS-01 20.86, Description: PS63-SS-01, Task: ICAL230612R5_1

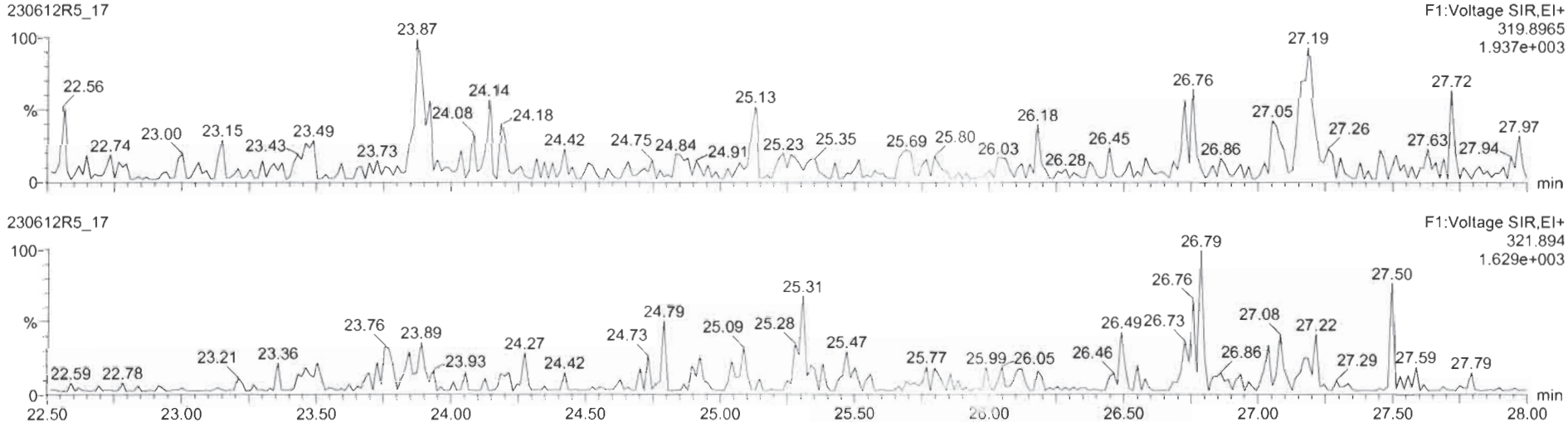
	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	1,2,3,4,6,7,8-HpCDD	1.26e5	1.03	NO	0.936	10.073	38.08	1.000	5635.7		36.6	5640
2	OCDD	6.84e5	0.91	NO	0.849	10.073	41.42	1.000	42575		95.4	42600
3	13C-1,2,3,4,6,7,8-HpCDD	4.73e3	1.17	NO	0.550	10.073	38.08	1.126	151.83	76.5	6.84	
4	13C-OCDD	7.51e3	0.91	NO	0.482	10.073	41.42	1.225	275.26	69.3	12.0	
5	13C-1,2,3,4,6,9-HxCDF	1.12e4	0.52	NO	1.00	10.073	33.82	1.000	198.56	100	10.0	

Dataset: Untitled

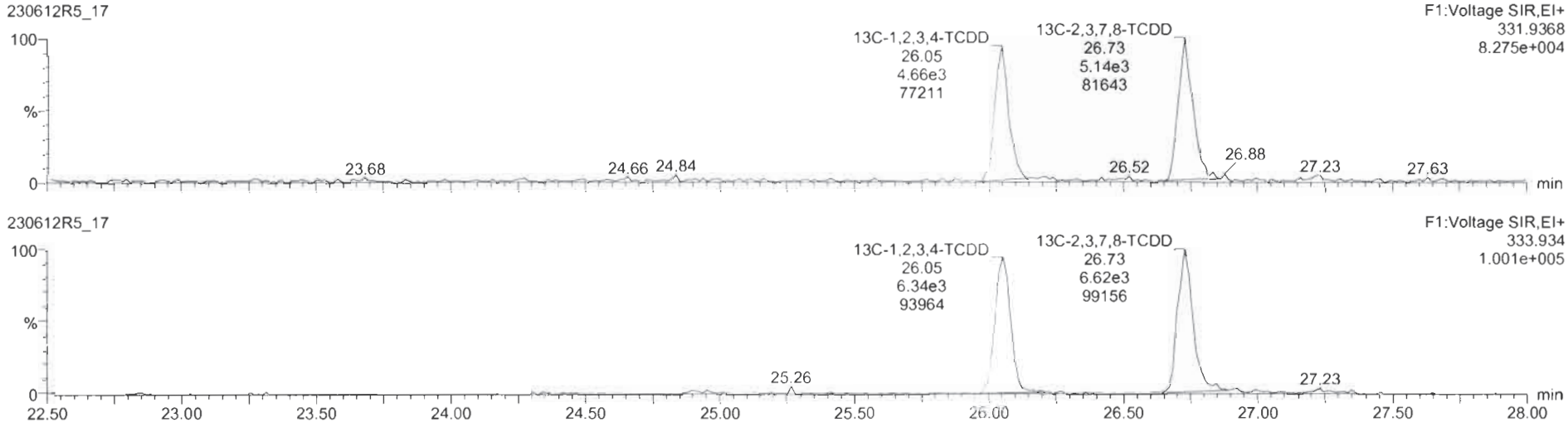
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Printed: Tuesday, June 13, 2023 12:14:17 Pacific Daylight Time

Name: 230612R5_17, Date: 13-Jun-2023, Time: 06:52:26, ID: 2305023-01@10X PS63-SS-01 20.86, Description: PS63-SS-01

2,3,7,8-TCDD



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

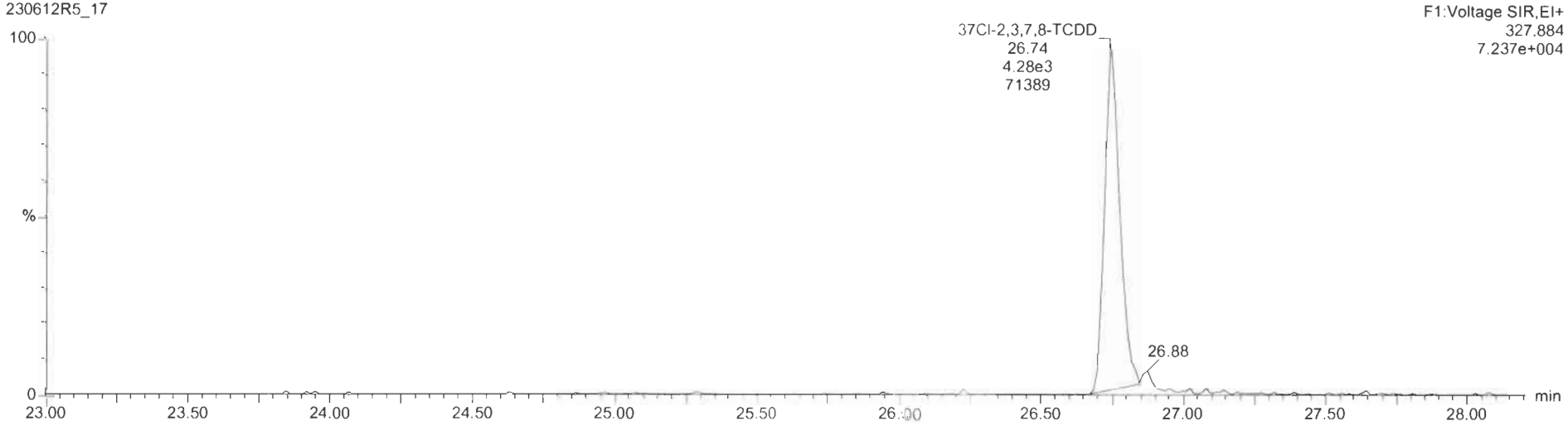


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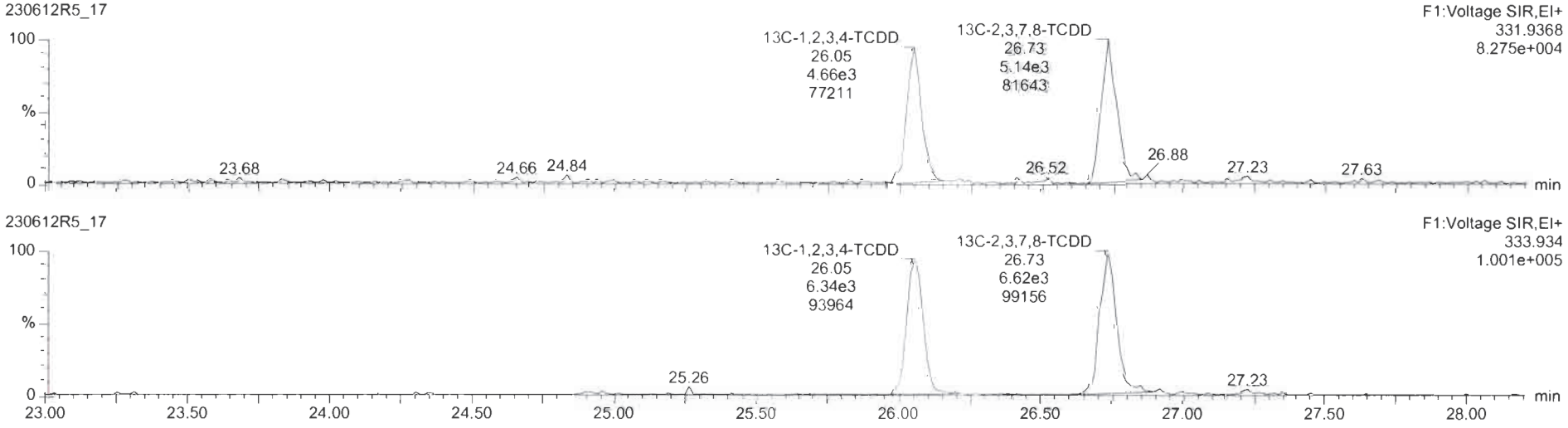
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Name: 230612R5_17, Date: 13-Jun-2023, Time: 06:52:26, ID: 2305023-01@10X PS63-SS-01 20.86, Description: PS63-SS-01

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



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

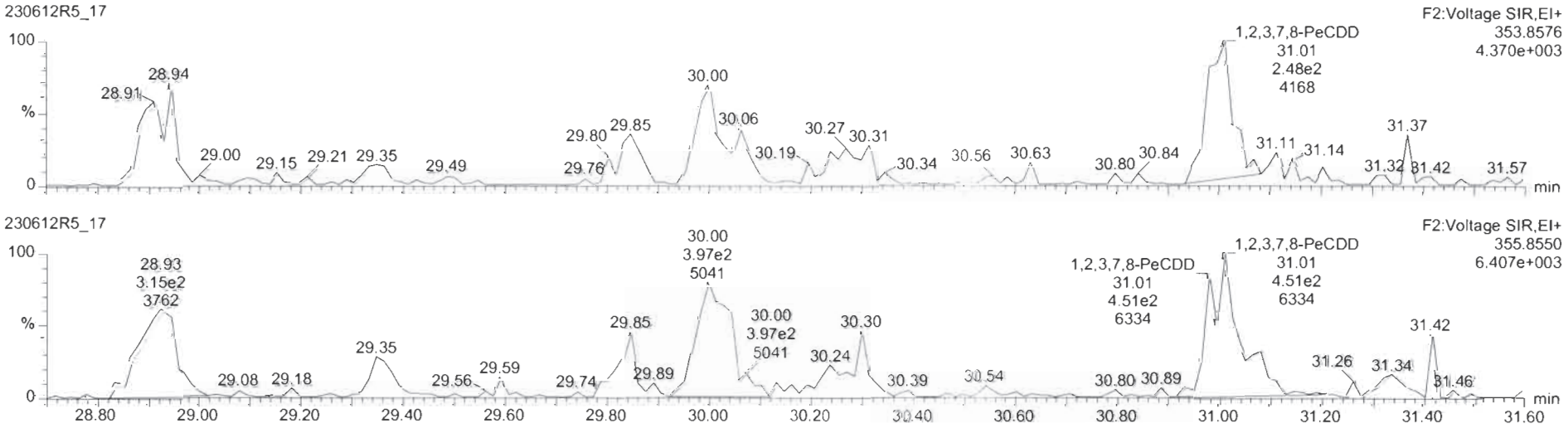


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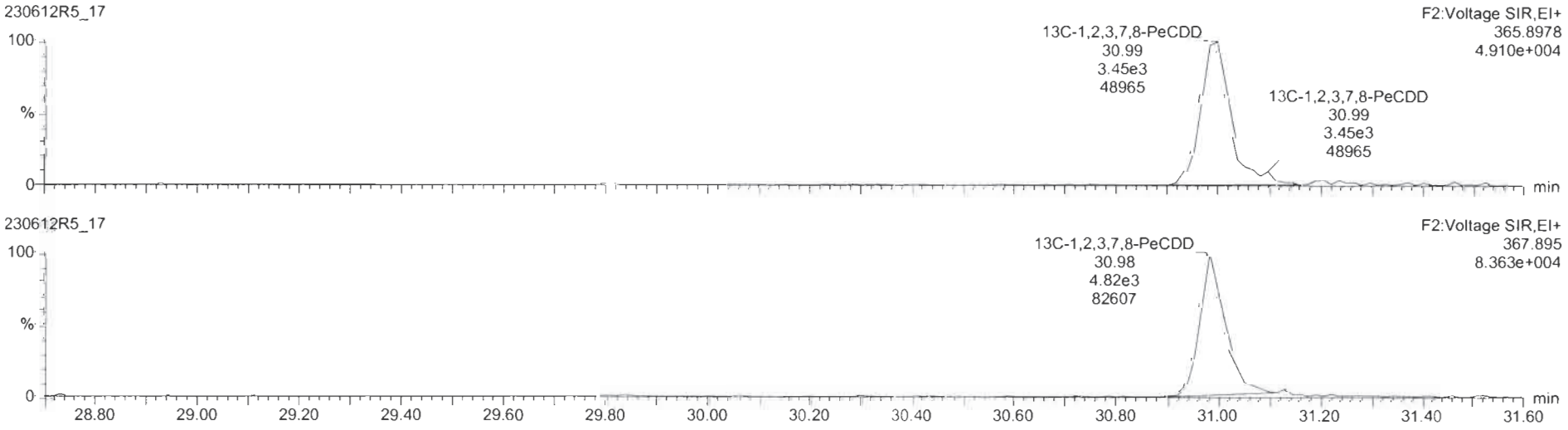
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Name: 230612R5_17, Date: 13-Jun-2023, Time: 06:52:26, ID: 2305023-01@10X PS63-SS-01 20.86, Description: PS63-SS-01

1,2,3,7,8-PeCDD



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

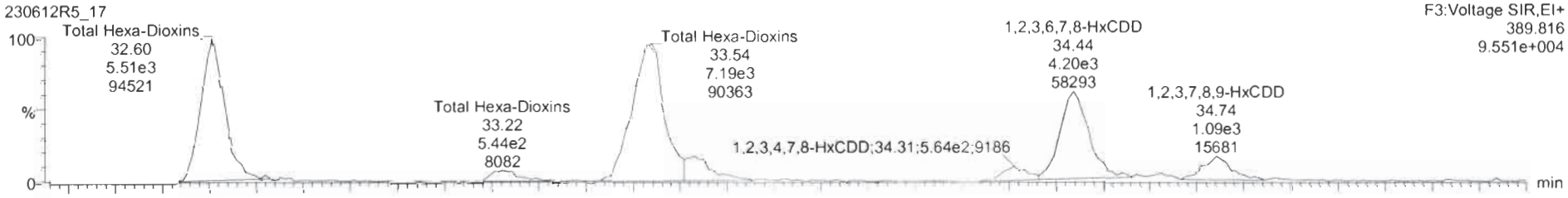


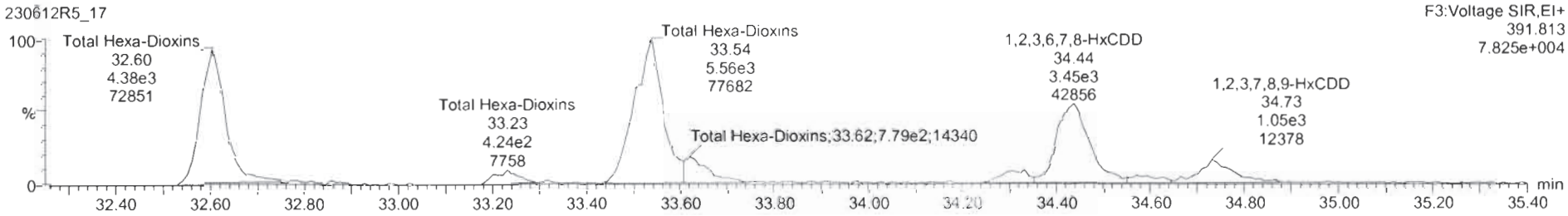
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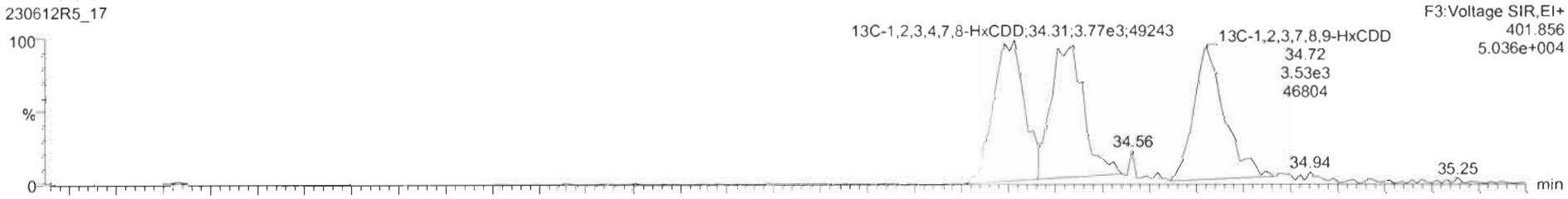
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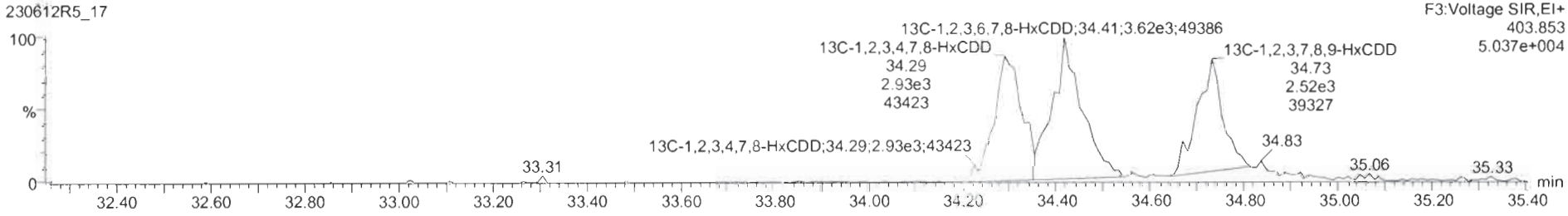
1,2,3,4,7,8-HxCDD





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



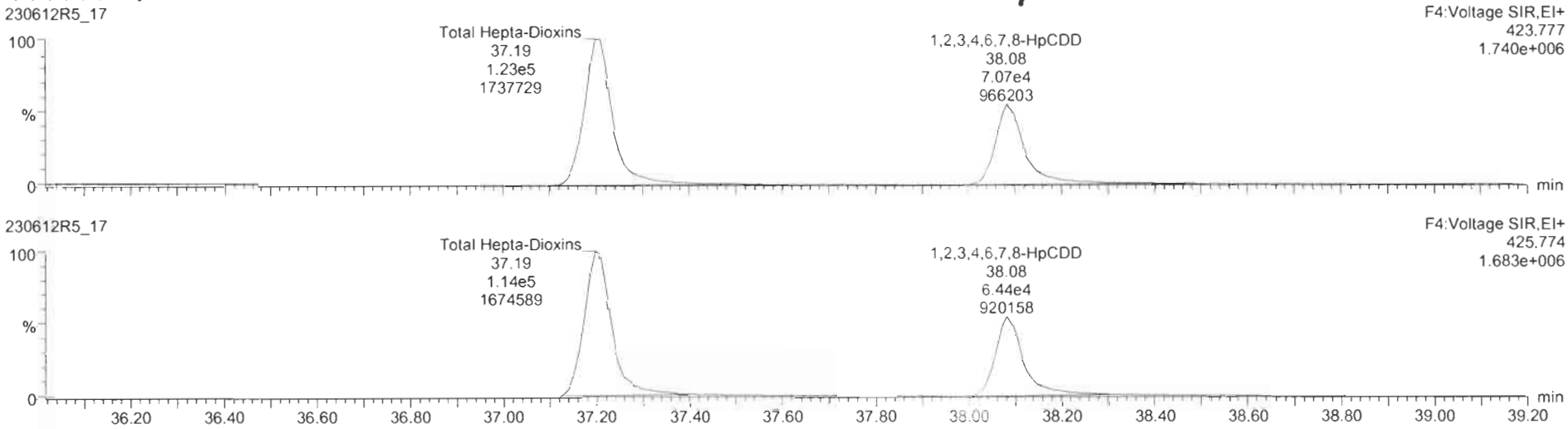


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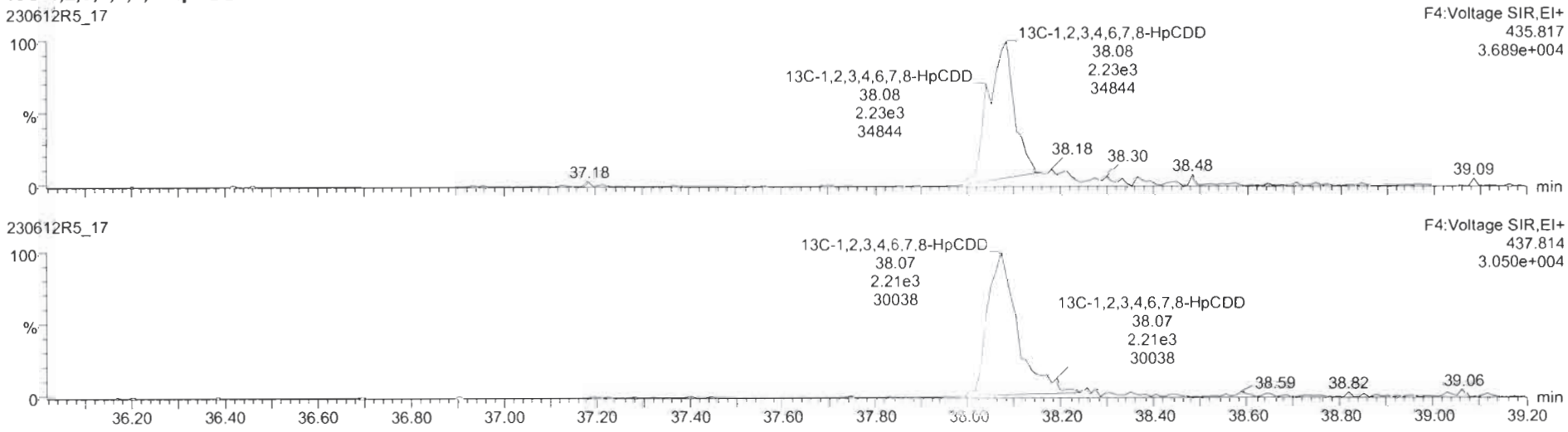
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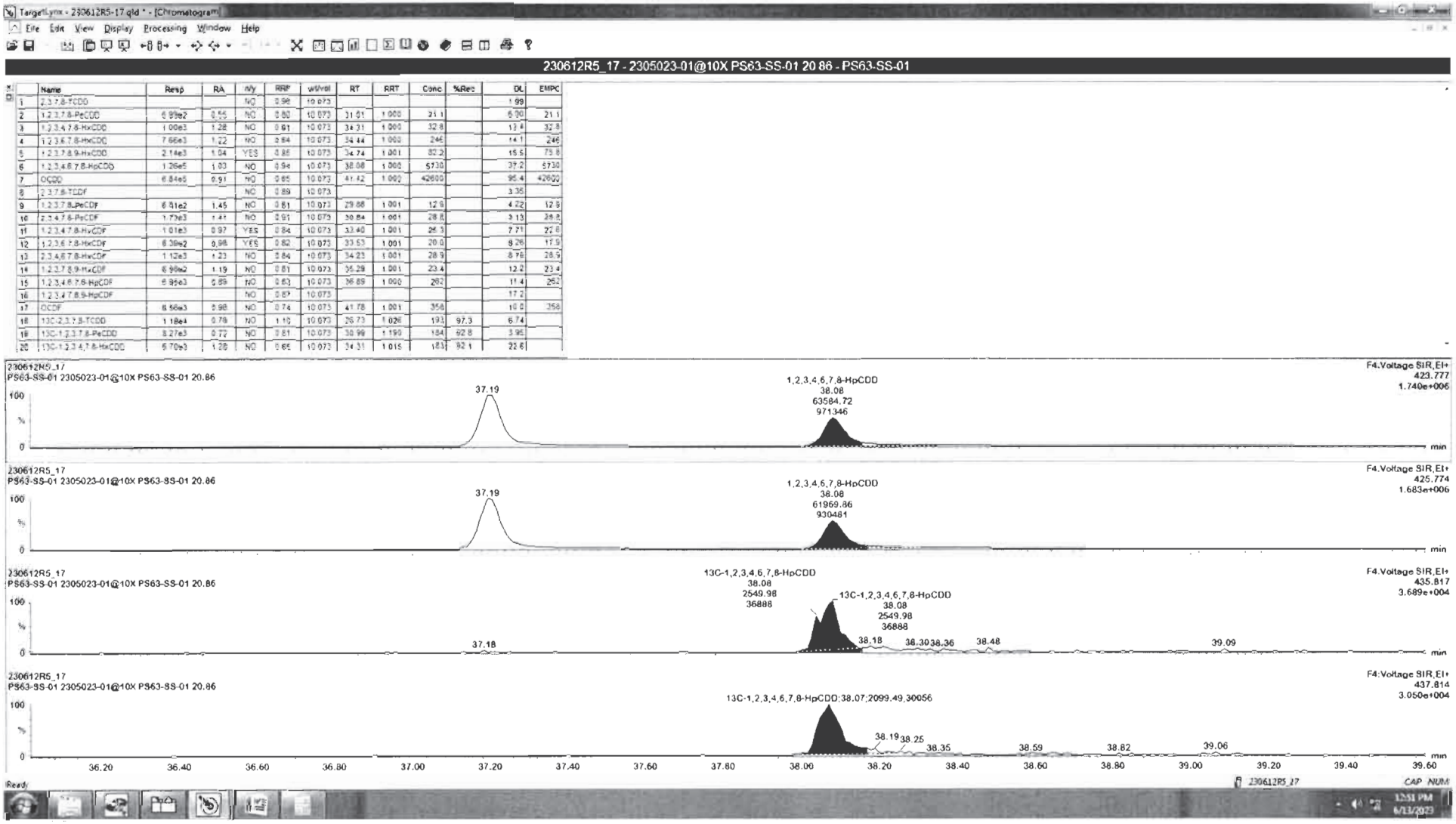
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1,2,3,4,6,7,8-HpCDD



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





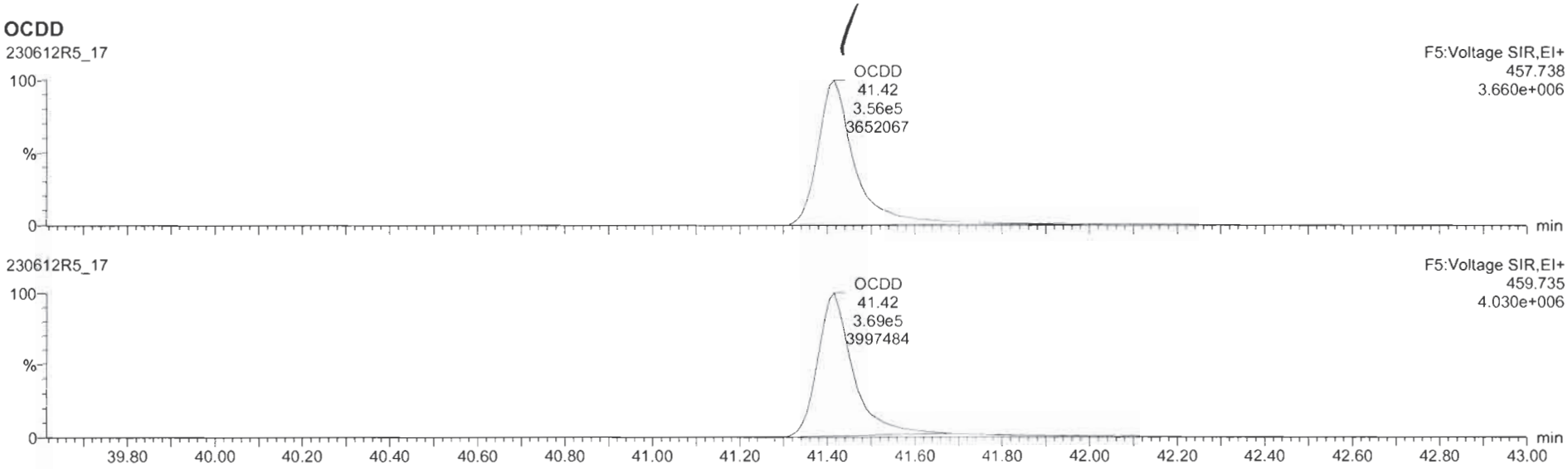
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1	2,3,7,8-TCDD			NO	0.96	10.073					1.99	
2	1,2,3,7,8-PeCDD	6.99e2	0.55	NO	0.80	10.073	31.01	1.000	21.1		6.90	21.1
3	1,2,3,4,7,8-HxCDD	1.00e3	1.28	NO	0.91	10.073	34.31	1.000	32.8		13.4	32.8
4	1,2,3,6,7,8-HxCDD	7.66e3	1.22	NO	0.84	10.073	34.44	1.000	246		14.1	246
5	1,2,3,7,8,9-HxCDD	2.14e3	1.04	YES	0.85	10.073	34.74	1.001	80.2		15.5	79.8
6	1,2,3,4,6,7,8-HpCDD	1.26e5	1.03	NO	0.94	10.073	38.08	1.000	5730		37.2	5730
7	OCDD	6.84e5	0.91	NO	0.65	10.073	41.42	1.000	42600		95.4	42600
8	2,3,7,8-TCDF			NO	0.89	10.073					3.35	
9	1,2,3,7,8-PeCDF	6.51e2	1.45	NO	0.81	10.073	29.88	1.001	12.9		4.22	12.9
10	2,3,4,7,8-PeCDF	1.72e3	1.41	NO	0.91	10.073	30.84	1.001	28.8		3.13	28.8
11	1,2,3,4,7,8-HxCDF	1.01e3	0.97	YES	0.84	10.073	33.40	1.001	26.3		7.71	27.8
12	1,2,3,6,7,8-HxCDF	6.39e2	0.98	YES	0.82	10.073	33.53	1.001	20.0		8.26	17.9
13	2,3,4,6,7,8-HxCDF	1.12e3	1.23	NO	0.84	10.073	34.23	1.001	28.9		8.76	28.9
14	1,2,3,7,8,9-HxCDF	6.98e2	1.19	NO	0.81	10.073	35.29	1.001	23.4		12.2	23.4
15	1,2,3,4,6,7,8-HpCDF	6.95e3	0.89	NO	0.83	10.073	36.89	1.000	262		11.4	262
16	1,2,3,4,7,8,9-HpCDF			NO	0.87	10.073					17.2	
17	OCDF	6.56e3	0.98	NO	0.74	10.073	41.78	1.001	358		10.0	358
18	13C-2,3,7,8-TCDD	1.18e4	0.78	NO	1.10	10.073	26.73	1.026	193	97.3	6.74	
19	13C-1,2,3,7,8-PeCDD	8.27e3	0.72	NO	0.81	10.073	30.99	1.159	184	92.8	3.95	
20	13C-1,2,3,4,7,8-HxCDD	6.70e3	1.28	NO	0.85	10.073	34.31	1.015	183	92.1	22.6	

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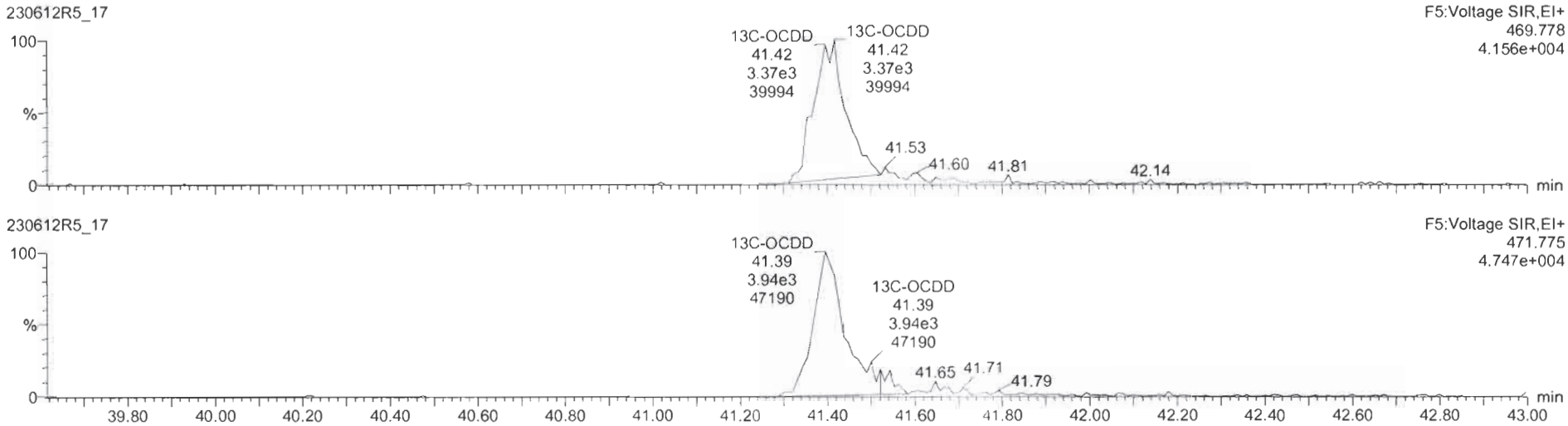
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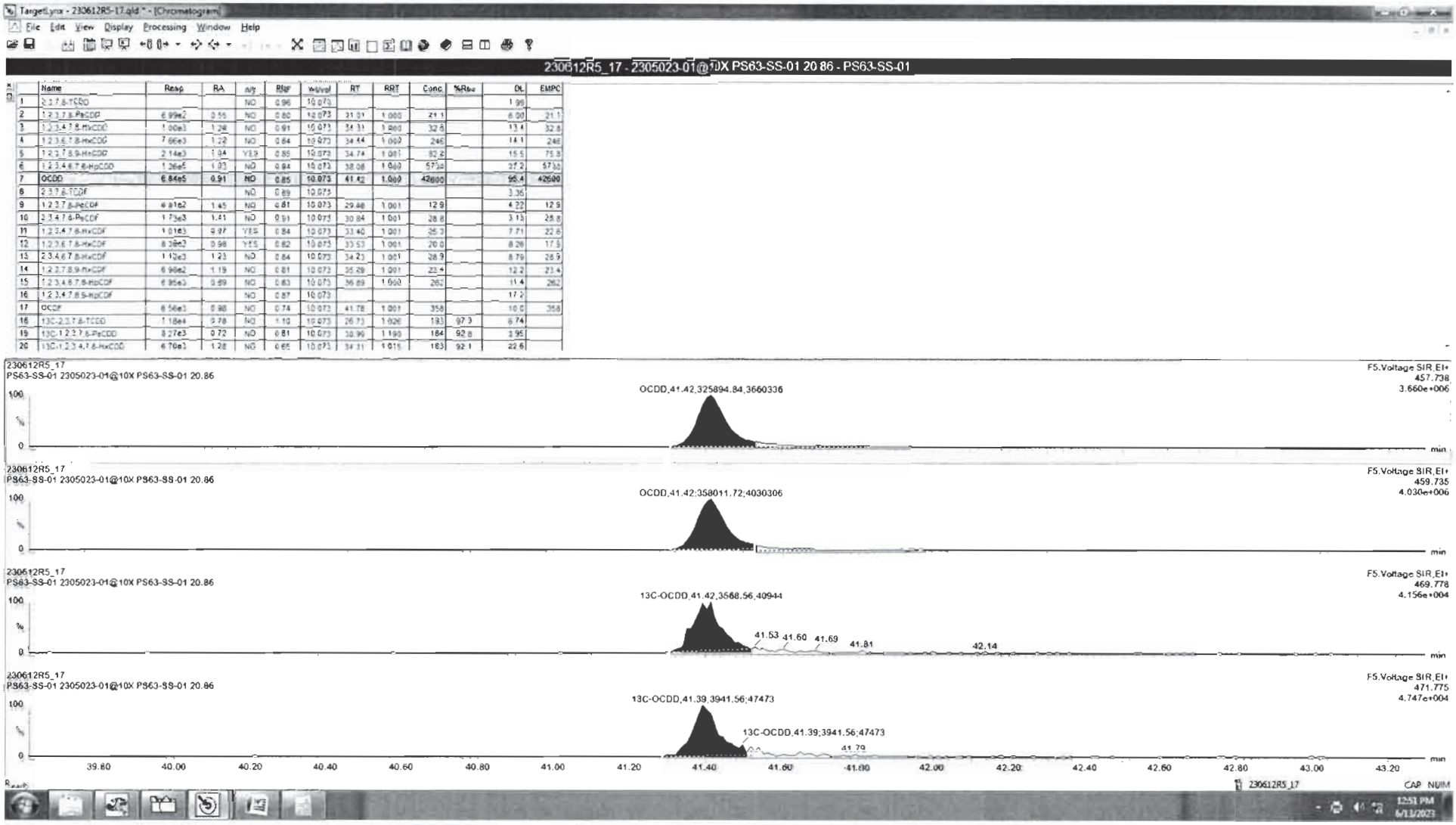
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OCDD



13C-OCDD





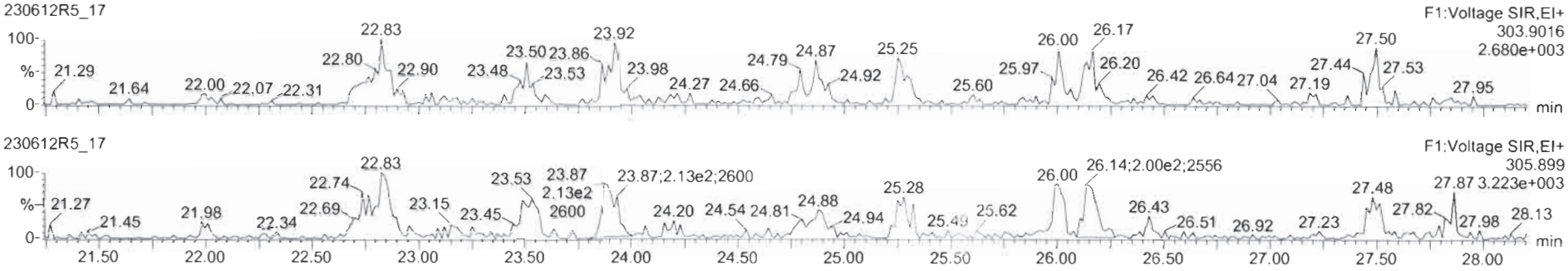
	Name	Resp	RA	a/y	Rsf	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.96	10.073					1.99	
2	1,2,3,7,8-PeCDD	6.99e2	0.55	NO	0.80	10.073	31.01	1.000	21.1		6.00	21.1
3	1,2,3,4,7,8-HxCDD	1.00e3	1.28	NO	0.91	10.073	34.31	1.000	32.8		13.4	32.8
4	1,2,3,6,7,8-HxCDD	7.66e3	1.22	NO	0.84	10.073	34.44	1.000	246		14.1	246
5	1,2,3,7,8,9-HxCDD	2.14e3	1.94	YES	0.85	10.073	34.74	1.001	82.2		15.5	75.8
6	1,2,3,4,6,7,8-HpCDD	1.26e5	1.03	NO	0.94	10.073	38.08	1.000	5730		37.2	5730
7	OCDD	6.84e5	0.91	NO	0.85	10.073	41.42	1.000	42600		95.4	42600
8	2,3,7,8-TCDF			NO	0.89	10.075					3.36	
9	1,2,3,7,8-PeCDF	6.81e2	1.45	NO	0.81	10.073	29.98	1.001	12.9		4.22	12.9
10	2,3,4,7,8-PeCDF	1.73e3	1.41	NO	0.91	10.075	30.84	1.001	28.8		3.13	28.8
11	1,2,3,4,7,8-HxCDF	1.01e3	0.97	YES	0.84	10.073	33.40	1.001	35.3		7.71	22.6
12	1,2,3,6,7,8-HxCDF	8.38e2	0.98	YES	0.82	10.073	33.53	1.001	20.0		8.26	17.3
13	2,3,4,6,7,8-HxCDF	1.12e3	1.23	NO	0.84	10.073	34.23	1.001	28.9		8.79	28.9
14	1,2,3,7,8,9-HxCDF	6.96e2	1.19	NO	0.81	10.073	35.29	1.001	23.4		12.2	23.4
15	1,2,3,4,6,7,8-HpCDF	6.95e3	0.89	NO	0.83	10.075	36.89	1.000	262		11.4	262
16	1,2,3,4,7,8,9-HpCDF			NO	0.87	10.073					17.2	
17	OCDF	6.56e3	0.98	NO	0.74	10.073	41.78	1.001	358		10.0	358
18	13C-2,3,7,8-TCDD	1.18e4	0.78	NO	1.10	10.073	26.73	1.026	193	97.3	6.74	
19	13C-1,2,3,7,8-PeCDD	8.27e3	0.72	NO	0.81	10.073	30.90	1.190	184	92.8	3.95	
20	13C-1,2,3,4,7,8-HxCDD	6.70e3	1.28	NO	0.65	10.073	34.31	1.015	183	92.1	22.6	

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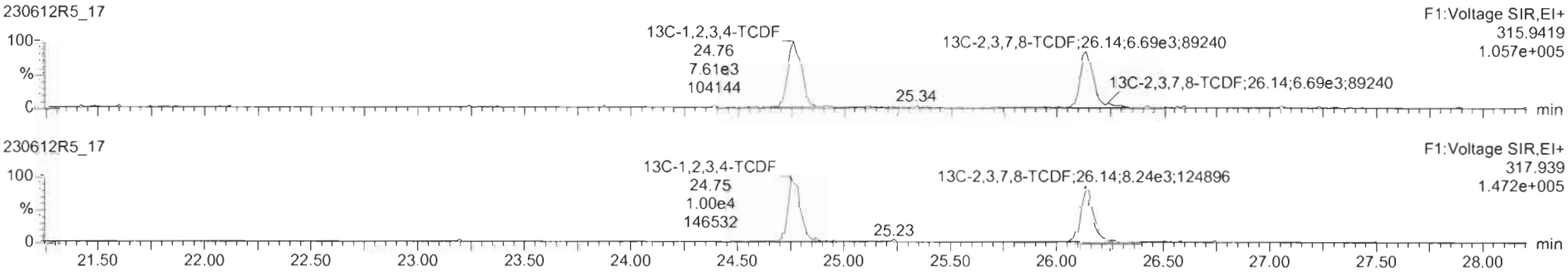
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Printed: Tuesday, June 13, 2023 12:14:17 Pacific Daylight Time

Name: 230612R5_17, Date: 13-Jun-2023, Time: 06:52:26, ID: 2305023-01@10X PS63-SS-01 20.86, Description: PS63-SS-01

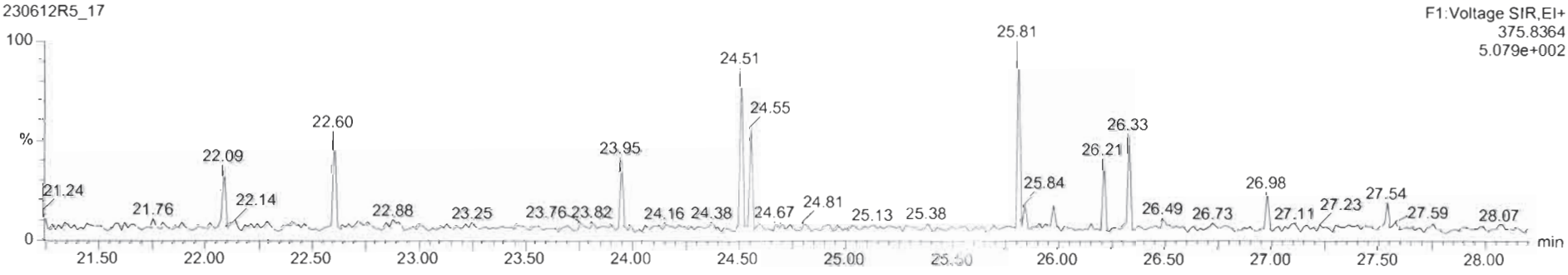
2,3,7,8-TCDF



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



DPE1



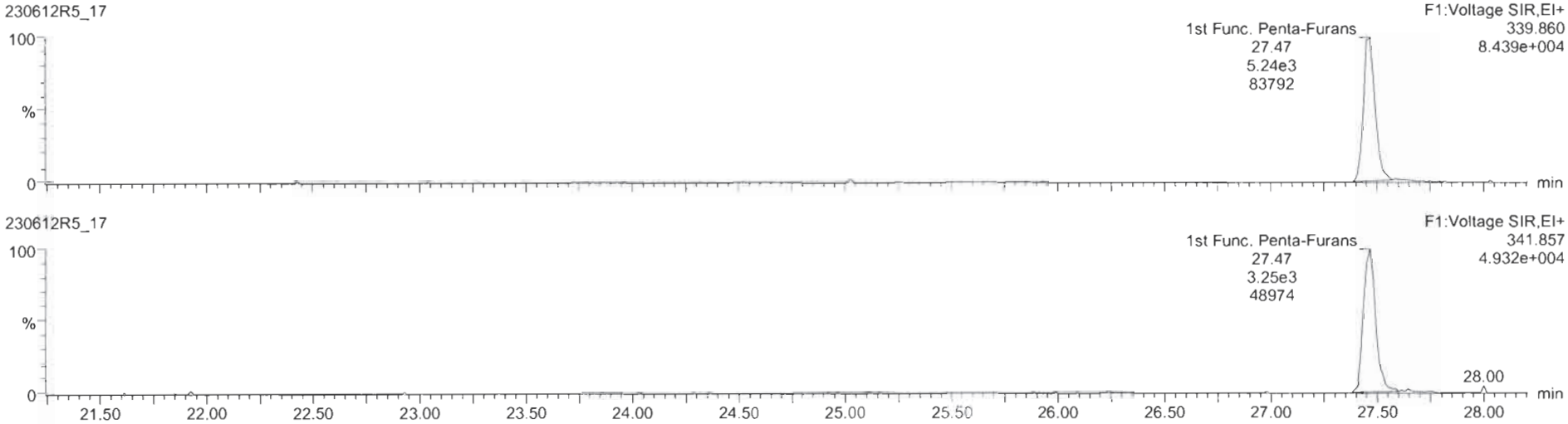
Enthalpy Analytical EDH VG-12

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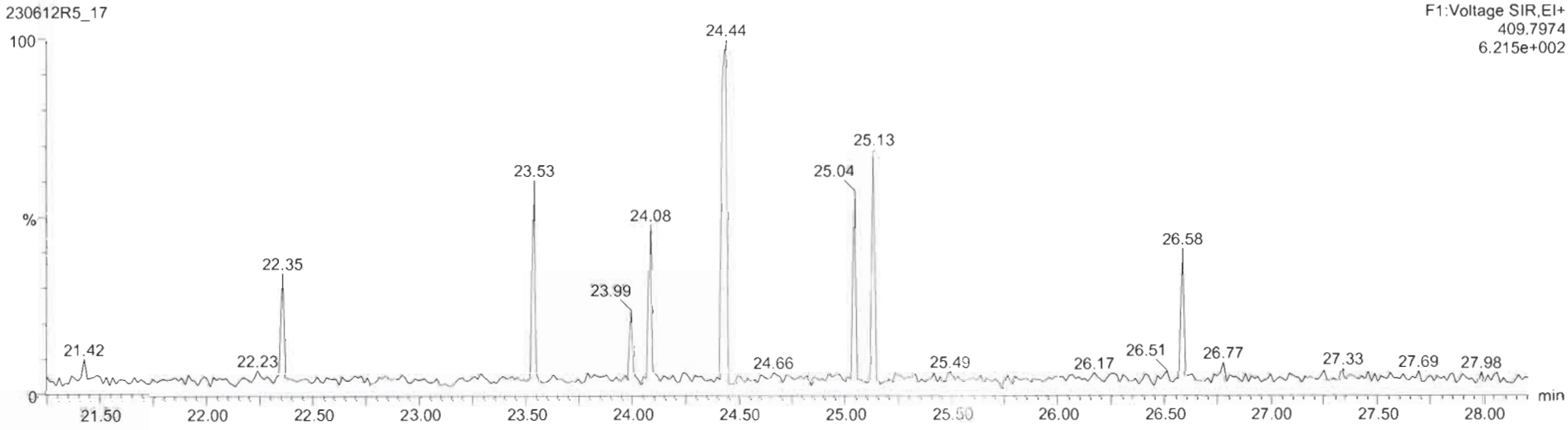
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1st Func. Penta-Furans



DPE6

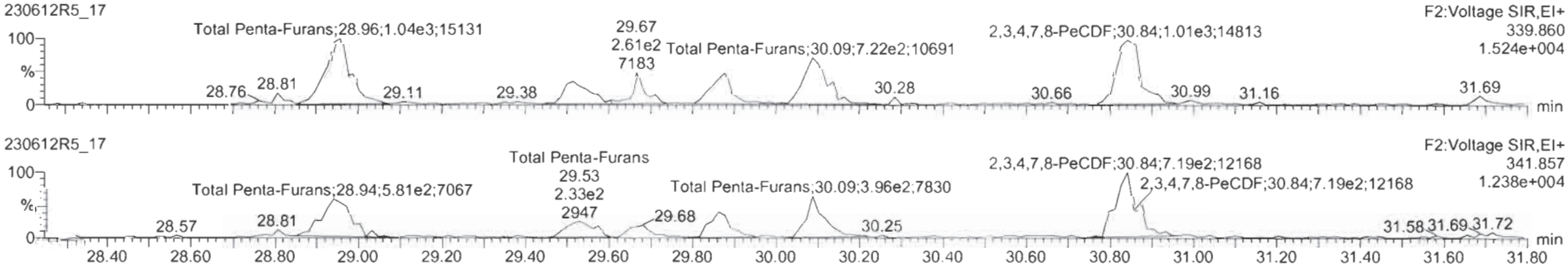


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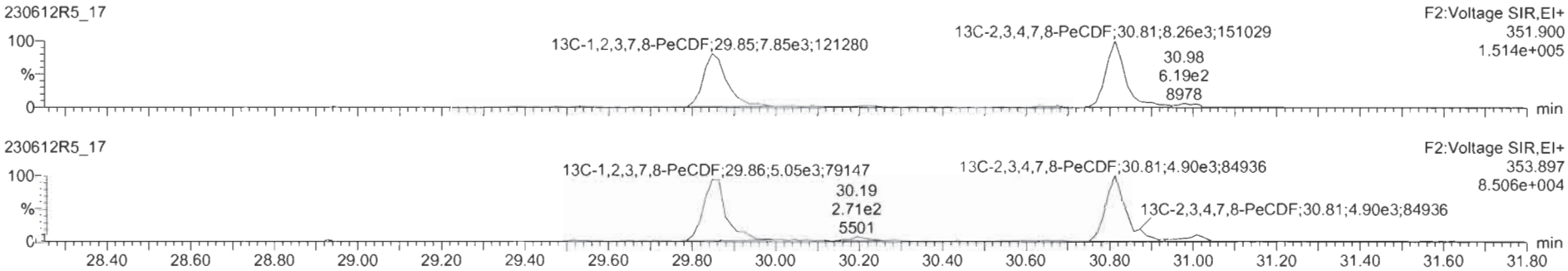
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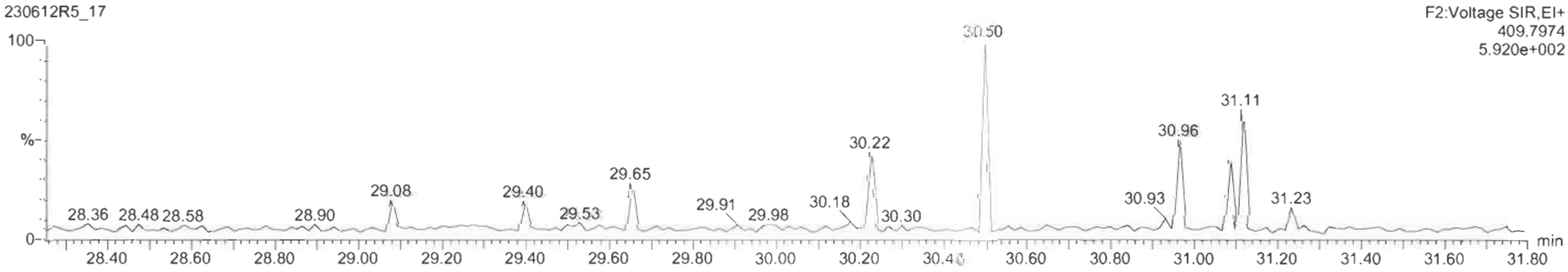
1,2,3,7,8-PeCDF



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



DPE2

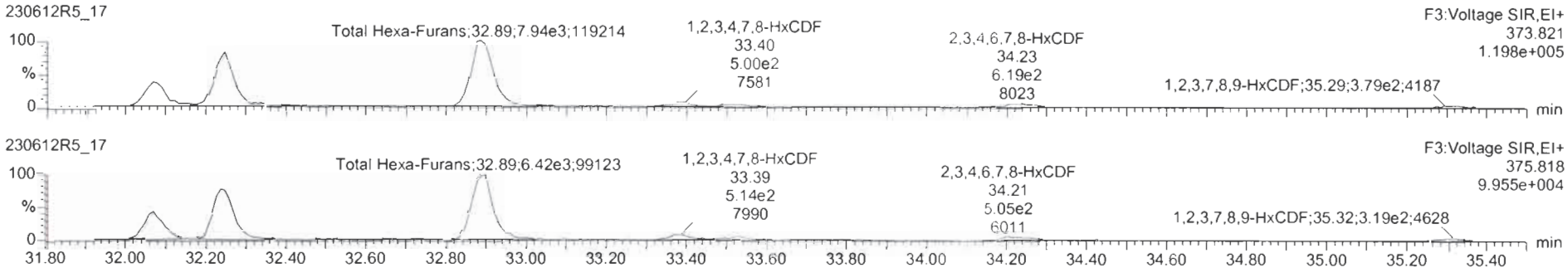


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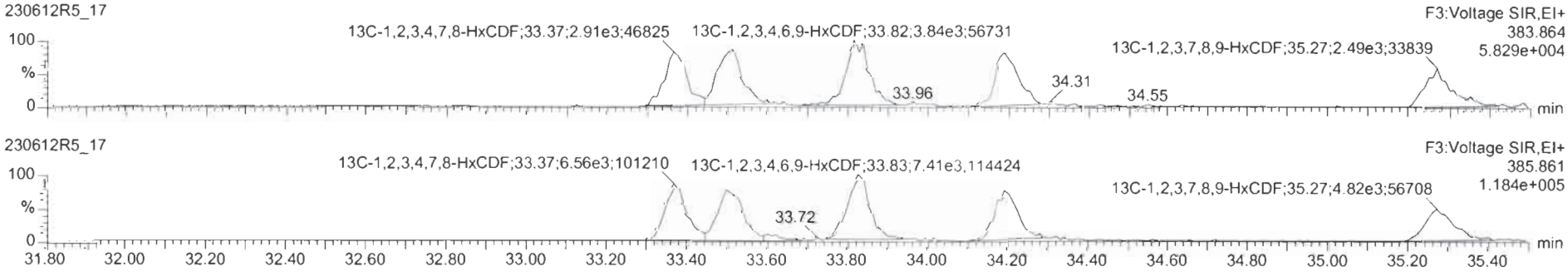
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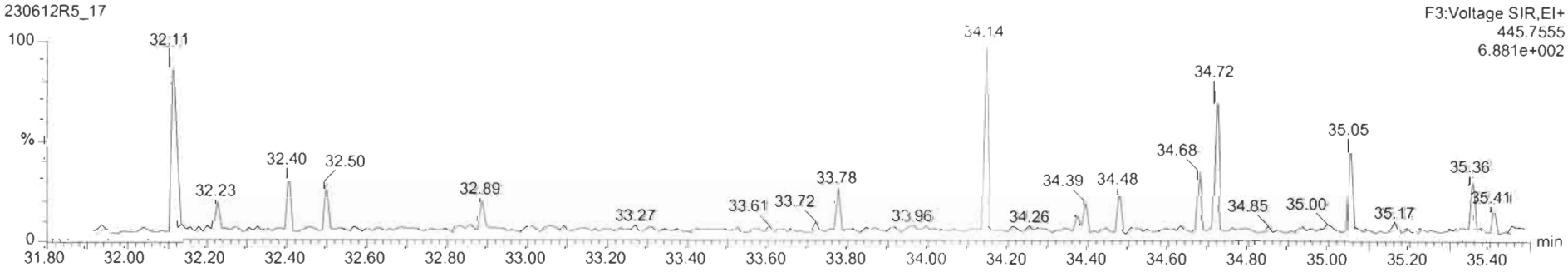
1,2,3,4,7,8-HxCDF



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



DPE3

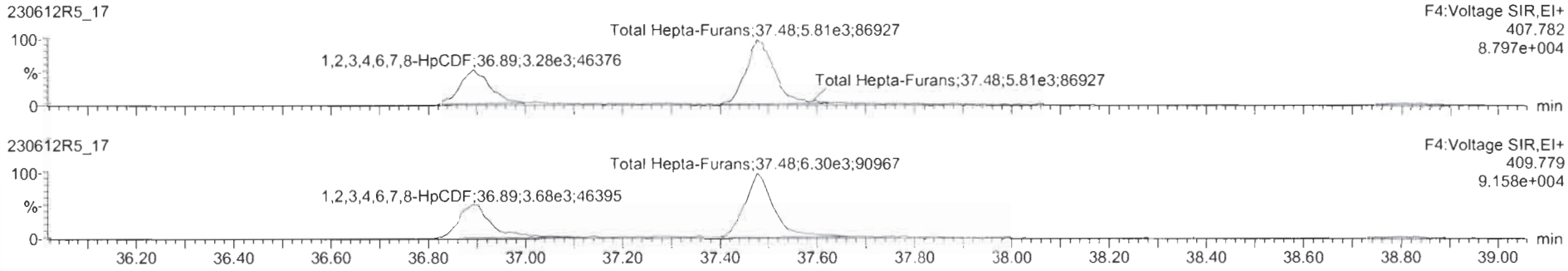


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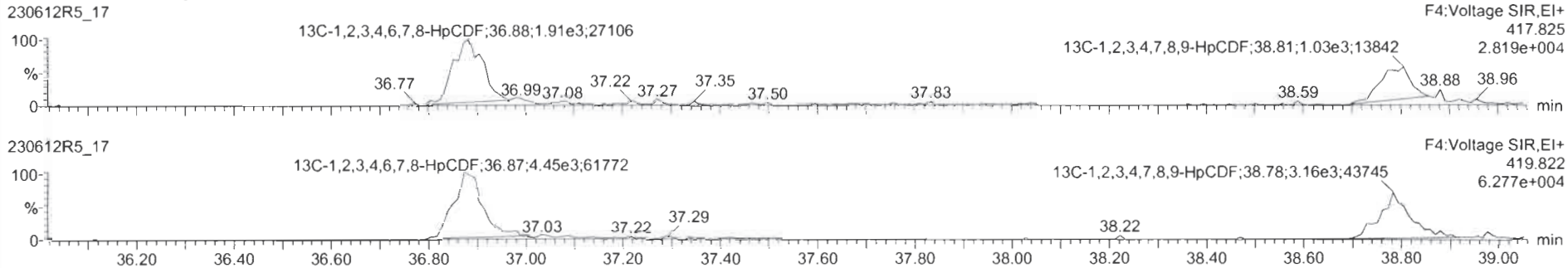
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Printed: Tuesday, June 13, 2023 12:14:17 Pacific Daylight Time

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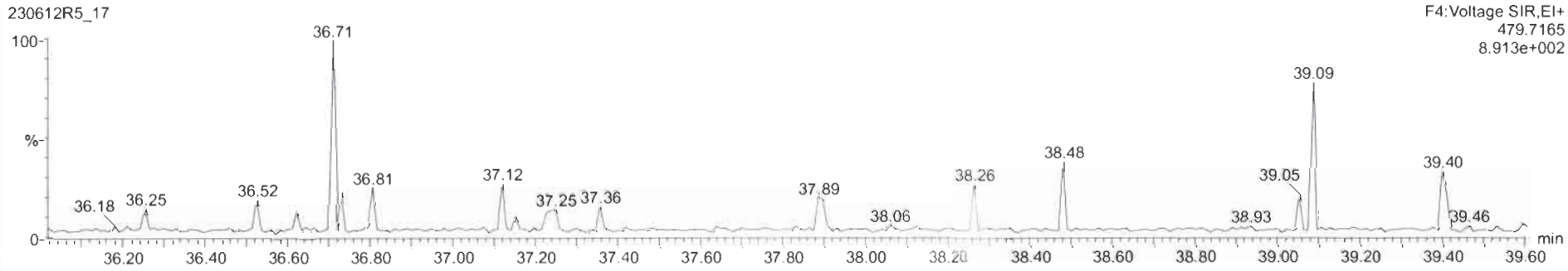
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13C-1,2,3,4,6,7,8-HpCDF



DPE4

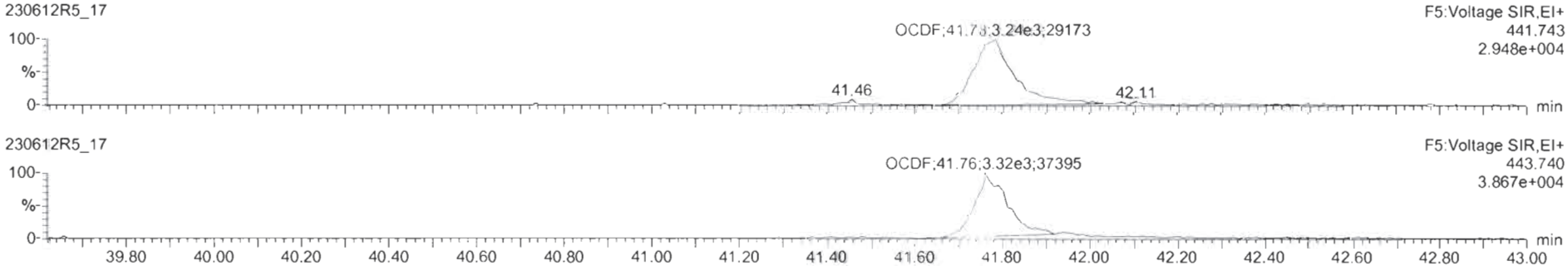


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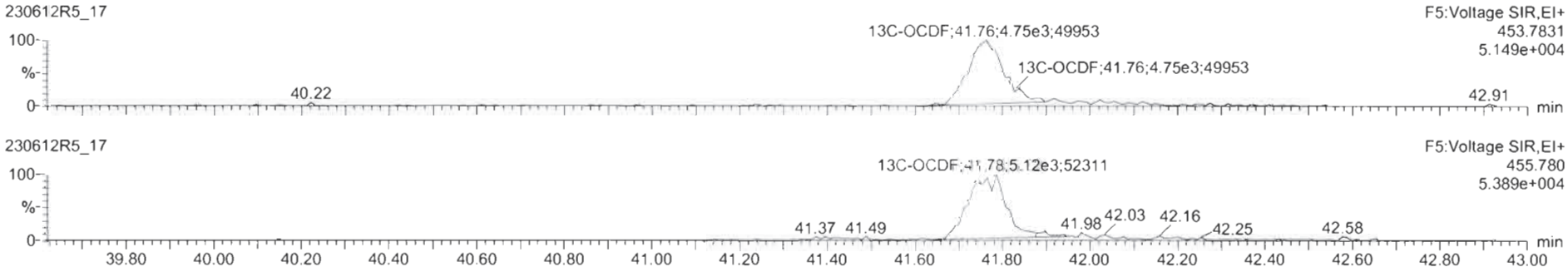
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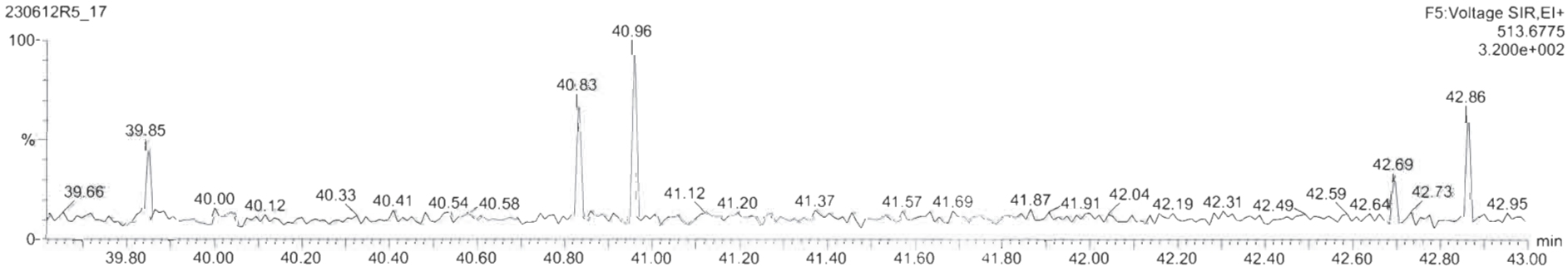
OCDF



13C-OCDF



DPE5

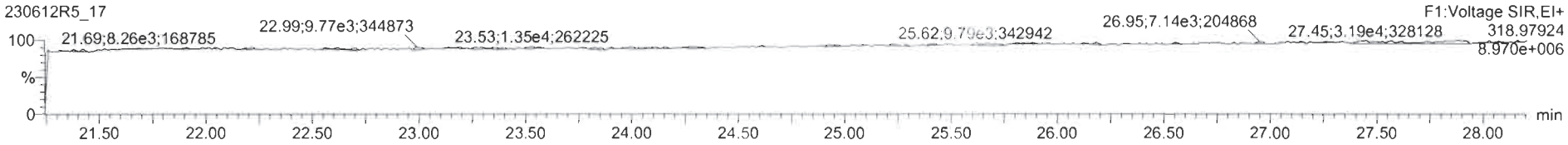


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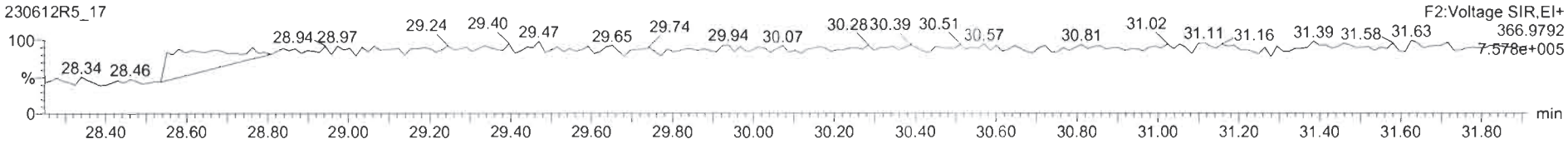
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Printed: Tuesday, June 13, 2023 12:14:17 Pacific Daylight Time

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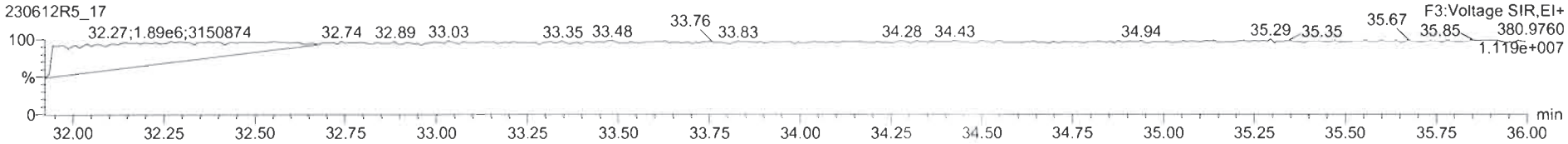
PFK1



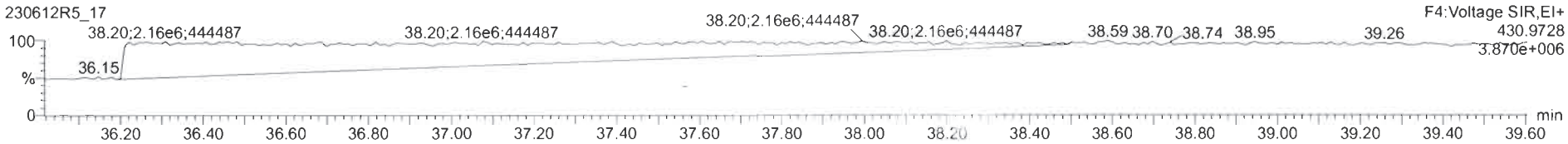
PFK2



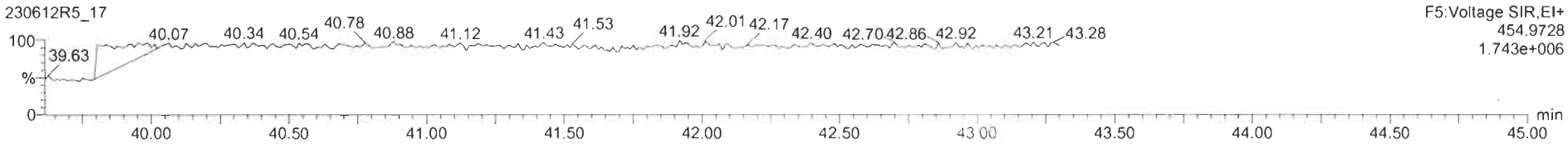
PFK3



PFK4



PFK5



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Vista Analytical Laboratory VG-12

Dataset: I:\VG12.PRO\Results\230605R2\230605R2-13b.qld

Last Altered: Thursday, June 08, 2023 11:41:34 AM Pacific Daylight Time
Printed: Thursday, June 08, 2023 11:51:53 AM Pacific Daylight Time

E 06/09/23
HAC 6.8.2023

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02, Task: ST230605R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.21e3	0.65	YES	0.906	10.002	26.73	1.000	0.69171		0.0926	0.624
2	1,2,3,7,8-PeCDD	1.04e4	0.59	NO	0.745	10.002	30.99	1.000	10.209		0.197	10.2
3	1,2,3,4,7,8-HxCDD	2.27e4	1.39	NO	0.837	10.002	34.31	1.000	24.680		1.18	24.7
4	1,2,3,6,7,8-HxCDD	1.99e5	1.32	NO	0.782	10.002	34.44	1.000	221.84		1.28	222
5	1,2,3,7,8,9-HxCDD	4.68e4	1.39	NO	0.780	10.002	34.73	1.000	51.386		1.30	51.4
6	1,2,3,4,6,7,8-HpCDD	3.89e6	1.01	NO	0.903	10.002	38.09	1.000	4615.4 E*		2.83	4620
7	OCDD	2.20e7	0.91	NO	0.782	10.002	41.46	1.000	34418 E*		4.32	34400
8	2,3,7,8-TCDF	7.51e3	0.76	NO	0.852	10.002	26.15	1.001	3.5418		0.137	3.54
9	1,2,3,7,8-PeCDF	1.51e4	1.67	NO	0.758	10.002	29.86	1.001	9.4102		0.255	9.41
10	2,3,4,7,8-PeCDF	3.52e4	1.77	NO	0.834	10.002	30.83	1.000	20.307		0.231	20.3
11	1,2,3,4,7,8-HxCDF	2.07e4	1.20	NO	0.762	10.002	33.38	1.001	17.497		0.444	17.5
12	1,2,3,6,7,8-HxCDF	1.51e4	1.20	NO	0.726	10.002	33.51	1.000	12.409		0.423	12.4
13	2,3,4,6,7,8-HxCDF	1.29e4	1.16	NO	0.756	10.002	34.22	1.001	11.615		0.509	11.6
14	1,2,3,7,8,9-HxCDF	3.34e3	1.20	NO	0.749	10.002	35.28	1.001	3.5449		0.673	3.54
15	1,2,3,4,6,7,8-HpCDF	1.88e5	1.01	NO	0.754	10.002	36.89	1.000	244.77		0.524	245
16	1,2,3,4,7,8,9-HpCDF	6.36e3	1.01	NO	0.792	10.002	38.79	1.000	10.749		0.724	10.7
17	OCDF	2.46e5	0.83	NO	0.669	10.002	41.80	1.001	400.81		0.679	401
18	13C-2,3,7,8-TCDD	3.86e5	0.77	NO	1.13	10.002	26.73	1.026	167.76	83.9	0.212	
19	13C-1,2,3,7,8-PeCDD	2.73e5	0.62	NO	0.869	10.002	30.98	1.189	153.28	76.7	0.225	
20	13C-1,2,3,4,7,8-HxCDD	2.19e5	1.26	NO	0.746	10.002	34.30	1.014	152.23	76.1	0.366	
21	13C-1,2,3,6,7,8-HxCDD	2.29e5	1.26	NO	0.803	10.002	34.42	1.018	147.89	74.0	0.340	
22	13C-1,2,3,7,8,9-HxCDD	2.33e5	1.22	NO	0.817	10.002	34.72	1.026	147.84	73.9	0.334	
23	13C-1,2,3,4,6,7,8-HpCDD	1.86e5	1.06	NO	0.611	10.002	38.08	1.126	157.96	79.0	0.479	
24	13C-OCDD	3.27e5	0.86	NO	0.545	10.002	41.45	1.225	310.12	77.5	0.521	
25	13C-2,3,7,8-TCDF	4.98e5	0.79	NO	1.07	10.002	26.12	1.002	153.37	76.7	0.166	
26	13C-1,2,3,7,8-PeCDF	4.24e5	1.64	NO	0.907	10.002	29.85	1.145	154.64	77.3	0.314	
27	13C-2,3,4,7,8-PeCDF	4.15e5	1.59	NO	0.889	10.002	30.81	1.182	154.47	77.3	0.321	
28	13C-1,2,3,4,7,8-HxCDF	3.10e5	0.49	NO	0.993	10.002	33.36	0.986	161.72	80.9	0.571	
29	13C-1,2,3,6,7,8-HxCDF	3.34e5	0.50	NO	1.05	10.002	33.50	0.990	164.16	82.1	0.539	
30	13C-2,3,4,6,7,8-HxCDF	2.94e5	0.49	NO	0.956	10.002	34.18	1.011	159.41	79.7	0.594	
31	13C-1,2,3,7,8,9-HxCDF	2.51e5	0.49	NO	0.853	10.002	35.26	1.042	152.67	76.4	0.666	

Dataset: I:\VG12.PRO\Results\230605R2\230605R2-13b.qld

Last Altered: Thursday, June 08, 2023 11:41:34 AM Pacific Daylight Time
Printed: Thursday, June 08, 2023 11:51:53 AM Pacific Daylight Time

Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02, Task: ST230605R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.03e5	0.41	NO	0.721	10.002	36.88	1.090	146.02	73.0	0.554	
33	13C-1,2,3,4,7,8,9-HpCDF	1.49e5	0.40	NO	0.581	10.002	38.78	1.146	133.14	66.6	0.688	
34	13C-OCDF	3.67e5	0.84	NO	0.718	10.002	41.78	1.235	264.74	66.2	0.431	
35	37Cl-2,3,7,8-TCDD	1.69e5			0.980	10.002	26.74	1.026	84.200	105	0.0653	
36	13C-1,2,3,4-TCDD	4.09e5	0.78	NO	1.00	10.002	26.06	1.000	199.95	100	0.239	
37	13C-1,2,3,4-TCDF	6.05e5	0.78	NO	1.00	10.002	24.78	1.000	199.95	100	0.178	
38	13C-1,2,3,4,6,9-HxCDF	3.86e5	0.50	NO	1.00	10.002	33.83	1.000	199.95	100	0.567	
39	Total Tetra-Dioxins				0.906	10.002			4.1484		0.0926	6.27
40	Total Penta-Dioxins				0.745	10.002			46.744		0.197	48.6
41	Total Hexa-Dioxins				0.782	10.002			1185.3		1.28	1200
42	Total Hepta-Dioxins				0.903	10.002			13580		2.83	13600
43	Total Tetra-Furans				0.852	10.002			30.735		0.137	32.3
44	1st Func. Penta-Furans				0.758	10.002			134.67		0.0411	135
45	Total Penta-Furans				0.758	10.002			82.713		0.255	83.4
46	Total Hexa-Furans				0.756	10.002			651.67		0.498	660
47	Total Hepta-Furans				0.754	10.002			810.27		0.624	810

Dataset: I:\VG12.PRO\Results\230605R2\230605R2-13b.qld

Last Altered: Thursday, June 08, 2023 11:41:34 AM Pacific Daylight Time
Printed: Thursday, June 08, 2023 11:51:53 AM Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02, Task: ST230605R2_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.46	1.259e4	1.823e4	9.486e2	1.281e3	0.74	NO	2.230e3	1.2732	1.2732	0.0926
2	Total Tetra-Dioxins	23.77	6.950e3	9.627e3	5.414e2	7.181e2	0.75	NO	1.260e3	0.71919	0.71919	0.0926
3	Total Tetra-Dioxins	24.22	2.881e3	5.079e3	2.058e2	3.217e2	0.64	YES	0.000e0	0.00000	0.27016	0.0926
4	Total Tetra-Dioxins	24.91	1.820e3	2.174e3	1.118e2	1.269e2	0.88	NO	2.387e2	0.13630	0.13630	0.0926
5	Total Tetra-Dioxins	25.10	6.563e3	9.467e3	4.825e2	5.080e2	0.95	YES	0.000e0	0.00000	0.51337	0.0926
6	Total Tetra-Dioxins	25.31	8.559e3	1.298e4	5.864e2	7.798e2	0.75	NO	1.366e3	0.78009	0.78009	0.0926
7	Total Tetra-Dioxins	25.49	2.148e3	3.822e3	1.250e2	2.210e2	0.57	YES	0.000e0	0.00000	0.16405	0.0926
8	Total Tetra-Dioxins	25.81	4.156e3	4.665e3	4.075e2	4.261e2	0.96	YES	0.000e0	0.00000	0.43060	0.0926
9	Total Tetra-Dioxins	26.09	3.122e3	2.755e3	1.196e2	1.439e2	0.83	NO	2.635e2	0.15048	0.15048	0.0926
10	Total Tetra-Dioxins	26.49	7.840e3	8.185e3	5.558e2	6.521e2	0.85	NO	1.208e3	0.68974	0.68974	0.0926
11	2,3,7,8-TCDD	26.73	7.749e3	1.506e4	4.751e2	7.352e2	0.65	YES	1.210e3	0.00000	0.62363	0.0926
12	Total Tetra-Dioxins	27.02	4.667e3	7.353e3	2.868e2	4.126e2	0.70	NO	6.994e2	0.39933	0.39933	0.0926
13	Total Tetra-Dioxins	27.16	1.163e3	2.076e3	4.751e1	1.023e2	0.46	YES	0.000e0	0.00000	0.062365	0.0926
14	Total Tetra-Dioxins	27.53	8.760e2	1.769e3	4.629e1	8.781e1	0.53	YES	0.000e0	0.00000	0.060756	0.0926

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.91	5.690e4	9.346e4	4.083e3	6.294e3	0.65	NO	1.038e4	10.219	10.219	0.197
2	Total Penta-Dioxins	29.36	2.937e4	3.995e4	1.520e3	2.147e3	0.71	NO	3.667e3	3.6111	3.6111	0.197
3	Total Penta-Dioxins	29.83	3.949e4	5.175e4	2.008e3	2.791e3	0.72	NO	4.799e3	4.7254	4.7254	0.197
4	Total Penta-Dioxins	30.00	6.541e4	1.051e5	4.380e3	7.262e3	0.60	NO	1.164e4	11.463	11.463	0.197
5	Total Penta-Dioxins	30.28	2.580e4	4.204e4	2.034e3	3.135e3	0.65	NO	5.169e3	5.0899	5.0899	0.197
6	Total Penta-Dioxins	30.57	3.324e3	6.138e3	1.722e2	3.846e2	0.45	YES	0.000e0	0.00000	0.43867	0.197
7	1,2,3,7,8-PeCDD	30.99	8.310e4	1.320e5	3.859e3	6.508e3	0.59	NO	1.037e4	10.209	10.209	0.197
8	Total Penta-Dioxins	31.05	1.253e4	1.530e4	6.041e2	8.441e2	0.72	NO	1.448e3	1.4260	1.4260	0.197
9	Total Penta-Dioxins	31.34	1.216e4	1.772e4	6.720e2	9.094e2	0.74	YES	0.000e0	0.00000	1.4596	0.197

Dataset: I:\VG12.PRO\Results\230605R2\230605R2-13b.qld

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Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02, Task: ST230605R2_1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.60	3.482e6	2.660e6	1.909e5	1.469e5	1.30	NO	3.378e5	379.89	379.89	1.28
2	Total Hexa-Dioxins	33.23	2.859e5	2.089e5	1.650e4	1.235e4	1.34	NO	2.885e4	32.445	32.445	1.28
3	Total Hexa-Dioxins	33.53	2.873e6	2.229e6	2.158e5	1.647e5	1.31	NO	3.805e5	427.90	427.90	1.28
4	Total Hexa-Dioxins	33.63	3.894e5	3.173e5	2.383e4	1.811e4	1.32	NO	4.193e4	47.160	47.160	1.28
5	1,2,3,4,7,8-HxCDD	34.31	2.119e5	1.552e5	1.317e4	9.486e3	1.39	NO	2.266e4	24.680	24.680	1.18
6	1,2,3,6,7,8-HxCDD	34.44	1.683e6	1.253e6	1.132e5	8.575e4	1.32	NO	1.990e5	221.84	221.84	1.28
7	Total Hexa-Dioxins	34.61	9.520e4	7.115e4	6.956e3	4.838e3	1.44	YES	0.000e0	0.00000	12.189	1.28
8	1,2,3,7,8,9-HxCDD	34.73	3.837e5	2.795e5	2.716e4	1.959e4	1.39	NO	4.675e4	51.386	51.386	1.30

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.21	5.862e7	5.757e7	3.816e6	3.735e6	1.02	NO	7.552e6	8964.1	8964.1	2.83
2	1,2,3,4,6,7,8-HpCDD	38.09	2.951e7	3.026e7	1.950e6	1.938e6	1.01	NO	3.888e6	4615.4	4615.4	2.83

Dataset: I:\VG12.PRO\Results\230605R2\230605R2-13b.qld

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Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02, Task: ST230605R2_1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.45	3.219e3	3.758e3	2.914e2	4.068e2	0.72	NO	6.982e2	0.32922	0.32922	0.137
2	Total Tetra-Furans	22.00	8.880e3	1.258e4	8.566e2	1.209e3	0.71	NO	2.065e3	0.97384	0.97384	0.137
3	Total Tetra-Furans	22.75	2.779e4	3.882e4	2.328e3	3.461e3	0.67	NO	5.788e3	2.7295	2.7295	0.137
4	Total Tetra-Furans	23.05	7.432e3	9.720e3	5.582e2	9.364e2	0.60	YES	0.000e0	0.00000	0.60503	0.137
5	Total Tetra-Furans	23.16	1.052e4	1.536e4	8.125e2	1.106e3	0.73	NO	1.919e3	0.90488	0.90488	0.137
6	Total Tetra-Furans	23.24	1.362e4	1.572e4	9.082e2	1.232e3	0.74	NO	2.141e3	1.0094	1.0094	0.137
7	Total Tetra-Furans	23.52	3.669e4	4.681e4	3.260e3	4.165e3	0.78	NO	7.425e3	3.5011	3.5011	0.137
8	Total Tetra-Furans	23.92	4.529e4	5.755e4	3.348e3	4.600e3	0.73	NO	7.948e3	3.7479	3.7479	0.137
9	Total Tetra-Furans	24.01	9.017e3	9.876e3	5.905e2	6.049e2	0.98	YES	0.000e0	0.00000	0.50492	0.137
10	Total Tetra-Furans	24.20	1.264e4	1.614e4	9.581e2	1.220e3	0.79	NO	2.179e3	1.0273	1.0273	0.137
11	Total Tetra-Furans	24.56	4.816e3	8.075e3	2.510e2	4.021e2	0.62	YES	0.000e0	0.00000	0.27208	0.137
12	Total Tetra-Furans	24.64	9.322e3	1.034e4	6.040e2	7.816e2	0.77	NO	1.386e3	0.65341	0.65341	0.137
13	Total Tetra-Furans	24.88	3.284e4	4.592e4	3.438e3	4.743e3	0.72	NO	8.182e3	3.8580	3.8580	0.137
14	Total Tetra-Furans	25.28	3.253e4	5.187e4	2.366e3	3.453e3	0.69	NO	5.818e3	2.7437	2.7437	0.137
15	Total Tetra-Furans	25.56	6.103e3	9.258e3	4.335e2	6.554e2	0.66	NO	1.089e3	0.51346	0.51346	0.137
16	Total Tetra-Furans	25.65	3.958e3	5.076e3	1.903e2	2.666e2	0.71	NO	4.569e2	0.21547	0.21547	0.137
17	Total Tetra-Furans	25.92	8.508e3	1.337e4	5.769e2	8.409e2	0.69	NO	1.418e3	0.66858	0.66858	0.137
18	Total Tetra-Furans	26.03	9.859e3	1.591e4	7.039e2	9.369e2	0.75	NO	1.641e3	0.77372	0.77372	0.137
19	2,3,7,8-TCDF	26.15	5.192e4	6.947e4	3.248e3	4.263e3	0.76	NO	7.511e3	3.5418	3.5418	0.137
20	Total Tetra-Furans	26.40	1.127e4	1.546e4	9.482e2	1.240e3	0.76	NO	2.188e3	1.0320	1.0320	0.137
21	Total Tetra-Furans	26.67	3.512e3	3.615e3	1.765e2	2.068e2	0.85	NO	0.000e0	0.00000	0.18077	0.137
22	Total Tetra-Furans	27.48	3.370e4	4.815e4	1.983e3	2.645e3	0.75	NO	4.628e3	2.1822	2.1822	0.137
23	Total Tetra-Furans	27.84	4.722e3	7.118e3	2.884e2	4.103e2	0.70	NO	6.987e2	0.32948	0.32948	0.137

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.47	2.555e6	1.577e6	1.326e5	8.154e4	1.63	NO	2.141e5	134.67	134.67	0.0411

Dataset: I:\VG12.PRO\Results\230605R2\230605R2-13b.qld

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Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02, Task: ST230605R2_1

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	3.889e4	2.387e4	2.493e3	1.552e3	1.61	NO	4.045e3	2.5442	2.5442	0.255
2	Total Penta-Furans	28.94	3.676e5	2.233e5	2.581e4	1.469e4	1.76	NO	4.050e4	25.473	25.473	0.255
3	Total Penta-Furans	29.52	1.265e5	7.538e4	8.211e3	5.209e3	1.58	NO	1.342e4	8.4414	8.4414	0.255
4	Total Penta-Furans	29.67	8.409e4	5.067e4	4.137e3	2.394e3	1.73	NO	6.531e3	4.1084	4.1084	0.255
5	1,2,3,7,8-PeCDF	29.86	1.876e5	1.147e5	9.446e3	5.671e3	1.67	NO	1.512e4	9.4102	9.4102	0.255
6	Total Penta-Furans	30.09	2.278e5	1.326e5	1.099e4	6.469e3	1.70	NO	1.746e4	10.981	10.981	0.255
7	Total Penta-Furans	30.66	1.197e4	7.794e3	6.195e2	4.830e2	1.28	YES	0.000e0	0.00000	0.64106	0.255
8	2,3,4,7,8-PeCDF	30.83	4.126e5	2.385e5	2.248e4	1.270e4	1.77	NO	3.518e4	20.307	20.307	0.231
9	Total Penta-Furans	31.67	2.256e4	1.611e4	1.400e3	9.015e2	1.55	NO	2.301e3	1.4474	1.4474	0.255

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.07	1.259e6	1.010e6	6.040e4	4.945e4	1.22	NO	1.099e5	97.657	97.657	0.498
2	Total Hexa-Furans	32.24	2.449e6	2.076e6	1.272e5	1.067e5	1.19	NO	2.339e5	207.90	207.90	0.498
3	Total Hexa-Furans	32.67	1.618e4	1.354e4	1.090e3	7.732e2	1.41	NO	1.863e3	1.6560	1.6560	0.498
4	Total Hexa-Furans	32.89	3.242e6	2.711e6	1.787e5	1.488e5	1.20	NO	3.275e5	291.12	291.12	0.498
5	Total Hexa-Furans	33.24	1.864e4	1.630e4	1.012e3	8.639e2	1.17	NO	1.876e3	1.6679	1.6679	0.498
6	1,2,3,4,7,8-HxCDF	33.38	1.962e5	1.648e5	1.130e4	9.396e3	1.20	NO	2.070e4	17.497	17.497	0.444
7	1,2,3,6,7,8-HxCDF	33.51	1.360e5	1.145e5	8.212e3	6.839e3	1.20	NO	1.505e4	12.409	12.409	0.423
8	Total Hexa-Furans	33.84	1.047e4	1.135e4	5.727e2	5.511e2	1.04	YES	0.000e0	0.00000	0.91969	0.498
9	2,3,4,6,7,8-HxCDF	34.22	1.529e5	1.209e5	6.949e3	5.979e3	1.16	NO	1.293e4	11.615	11.615	0.509
10	Total Hexa-Furans	34.23	1.439e5	1.179e5	4.487e3	3.762e3	1.19	NO	0.000e0	0.00000	7.3331	0.498
11	1,2,3,7,8,9-HxCDF	35.28	5.882e4	5.040e4	1.819e3	1.518e3	1.20	NO	3.337e3	3.5449	3.5449	0.673
12	Total Hexa-Furans	35.30	7.857e4	6.871e4	3.946e3	3.470e3	1.14	NO	7.416e3	6.5932	6.5932	0.498

Dataset: I:\VG12.PRO\Results\230605R2\230605R2-13b.qld

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Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02, Task: ST230605R2_1

Hepta-Furans

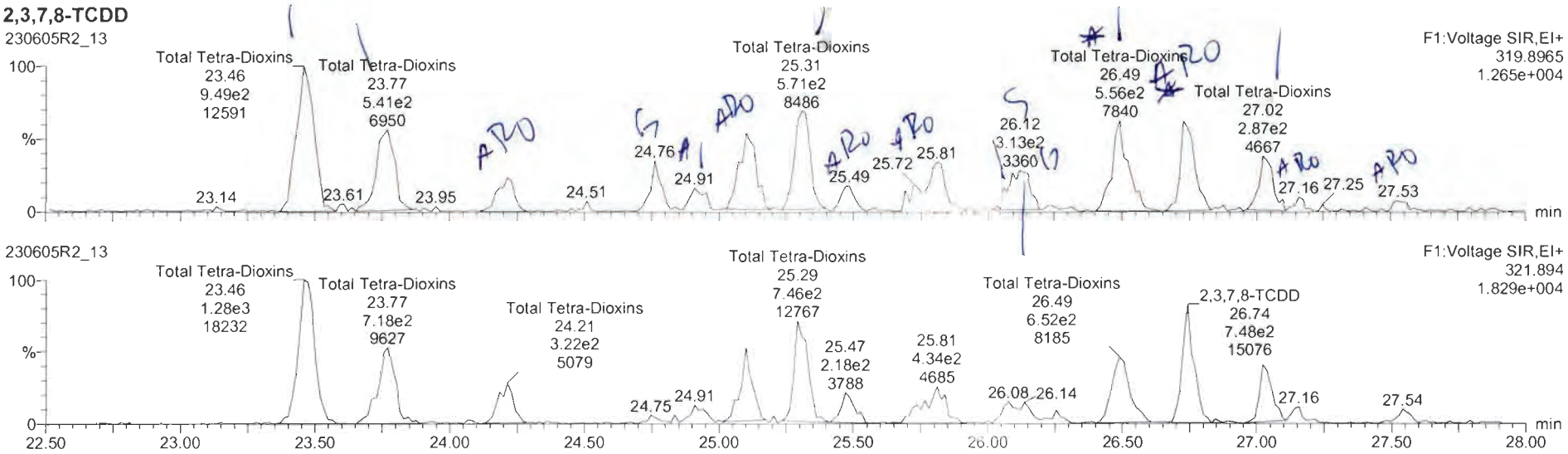
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.89	1.365e6	1.354e6	9.411e4	9.355e4	1.01	NO	1.877e5	244.77	244.77	0.524
2	Total Hepta-Furans	37.29	1.922e4	2.006e4	1.085e3	1.180e3	0.92	NO	2.266e3	3.4073	3.4073	0.624
3	Total Hepta-Furans	37.49	3.030e6	2.990e6	1.841e5	1.825e5	1.01	NO	3.666e5	551.35	551.35	0.624
4	1,2,3,4,7,8,9-HpCDF	38.79	4.273e4	4.071e4	3.198e3	3.165e3	1.01	NO	6.363e3	10.749	10.749	0.724

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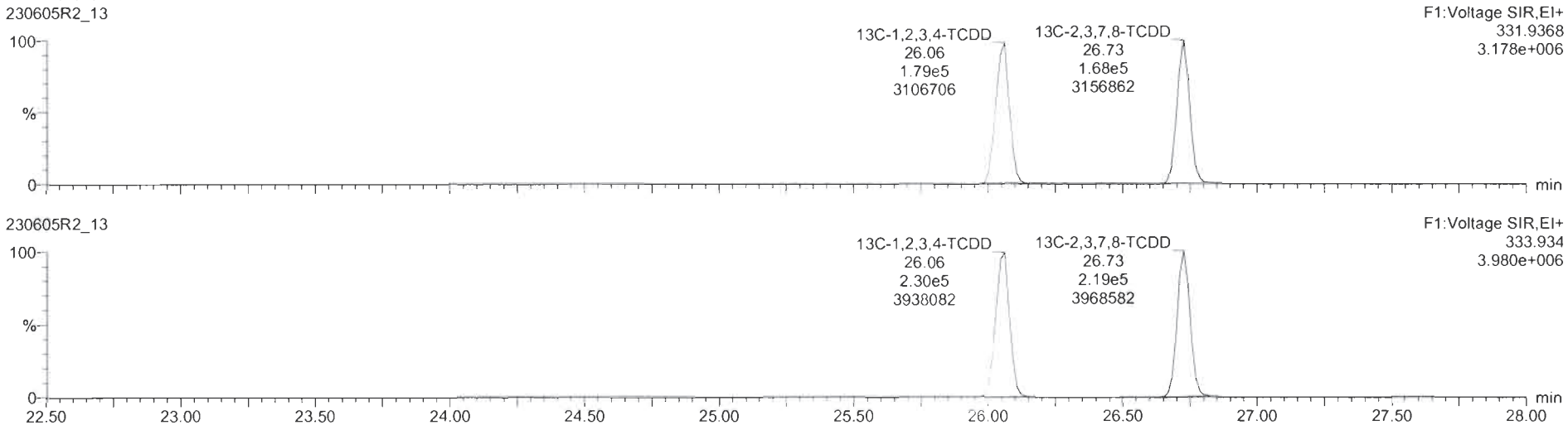
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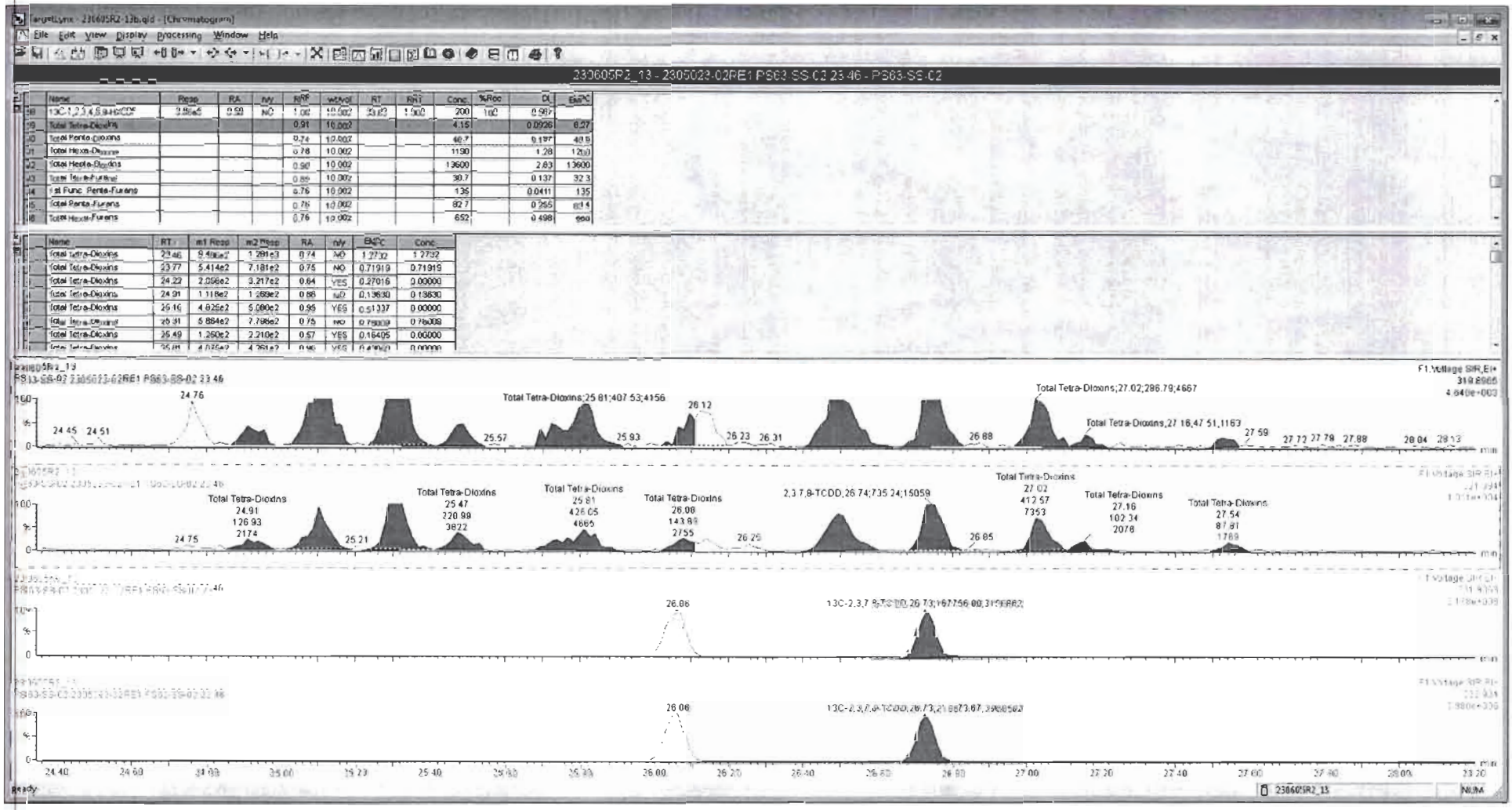
Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: **PS63-SS-02**

2,3,7,8-TCDD



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



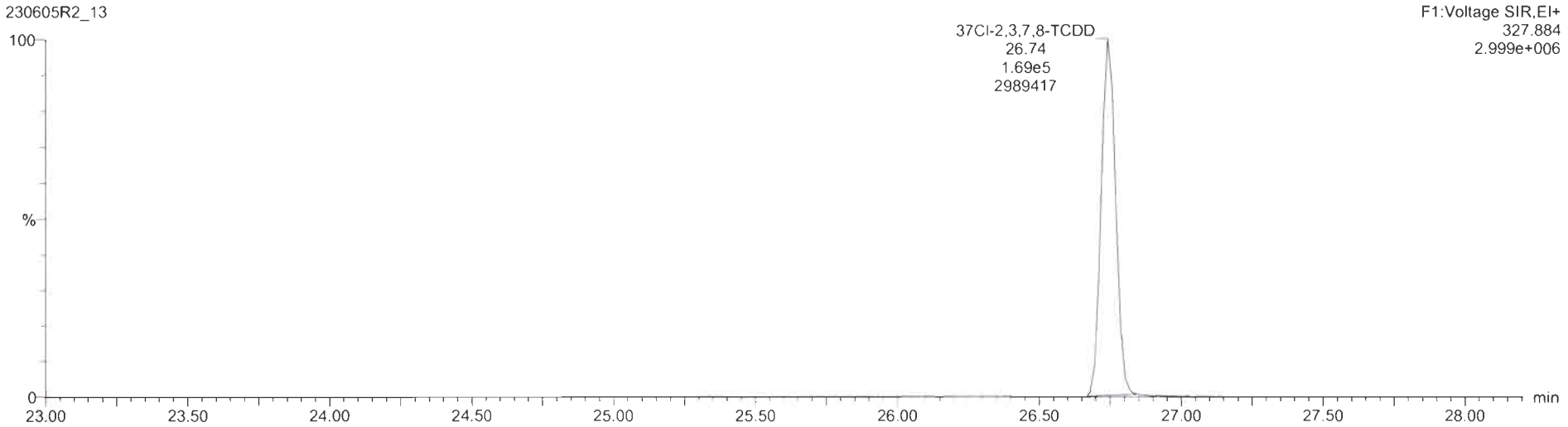

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230605R2_13 - 2305023-02RE1 PS63 SS-02 23 46 - PS63-SS-02
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Total Tetra-Dioxins;27.02;286.79;4667
Total Tetra-Dioxins,27 16;47 51,1163
Total Tetra-Dioxins
24.91
126 93
2174
Total Tetra-Dioxins
25 47
220 99
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25 81
426 05
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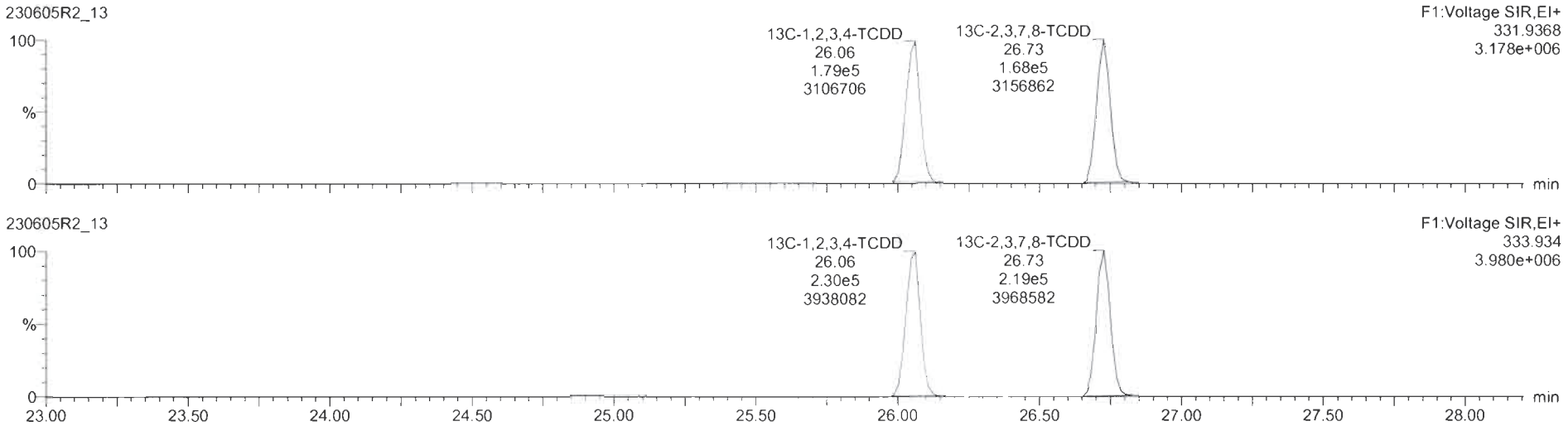
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Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: **PS63-SS-02**

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



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

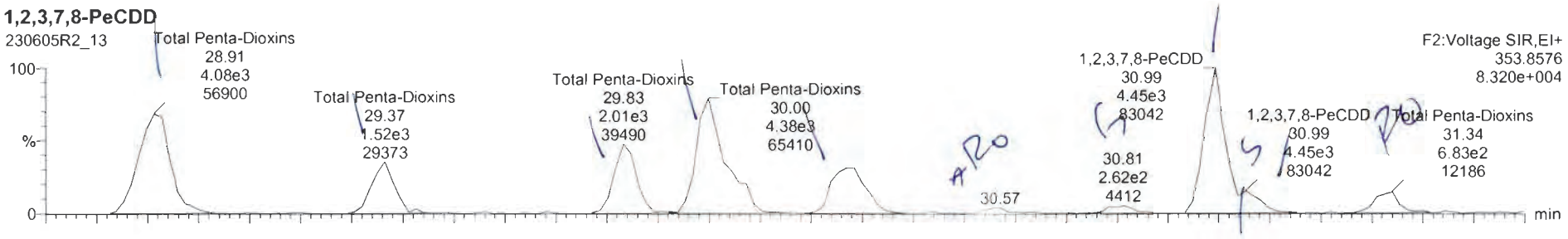


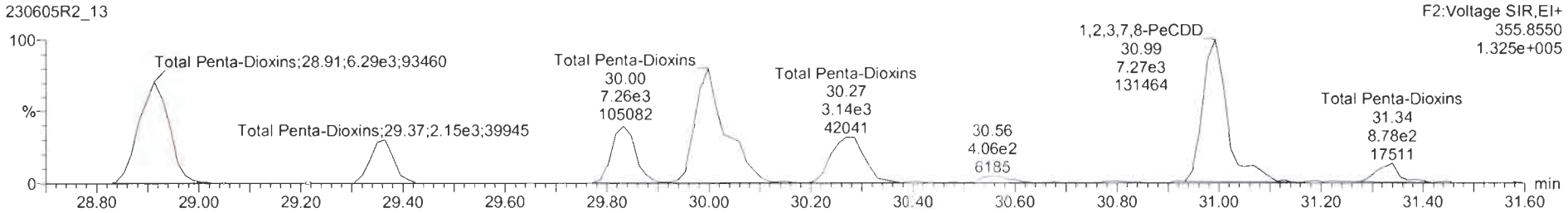
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Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

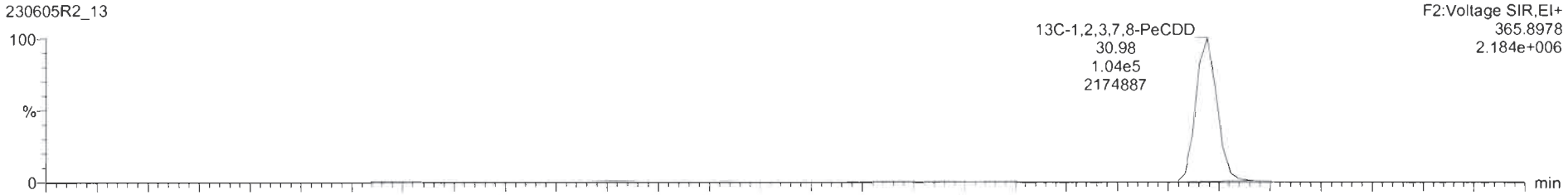
Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description**: PS63-SS-02**

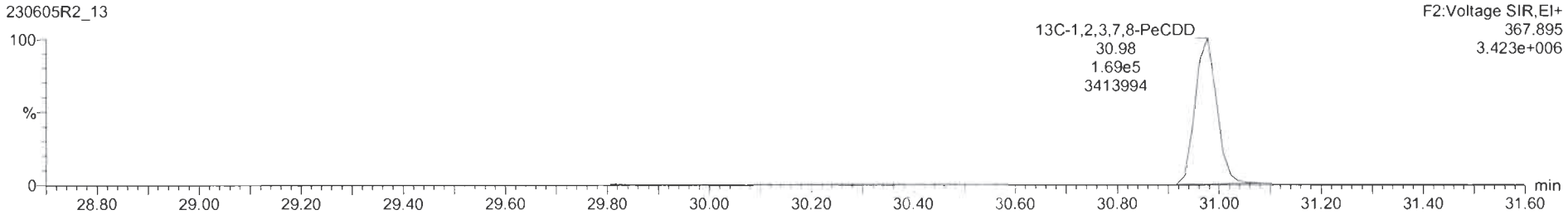
1,2,3,7,8-PeCDD

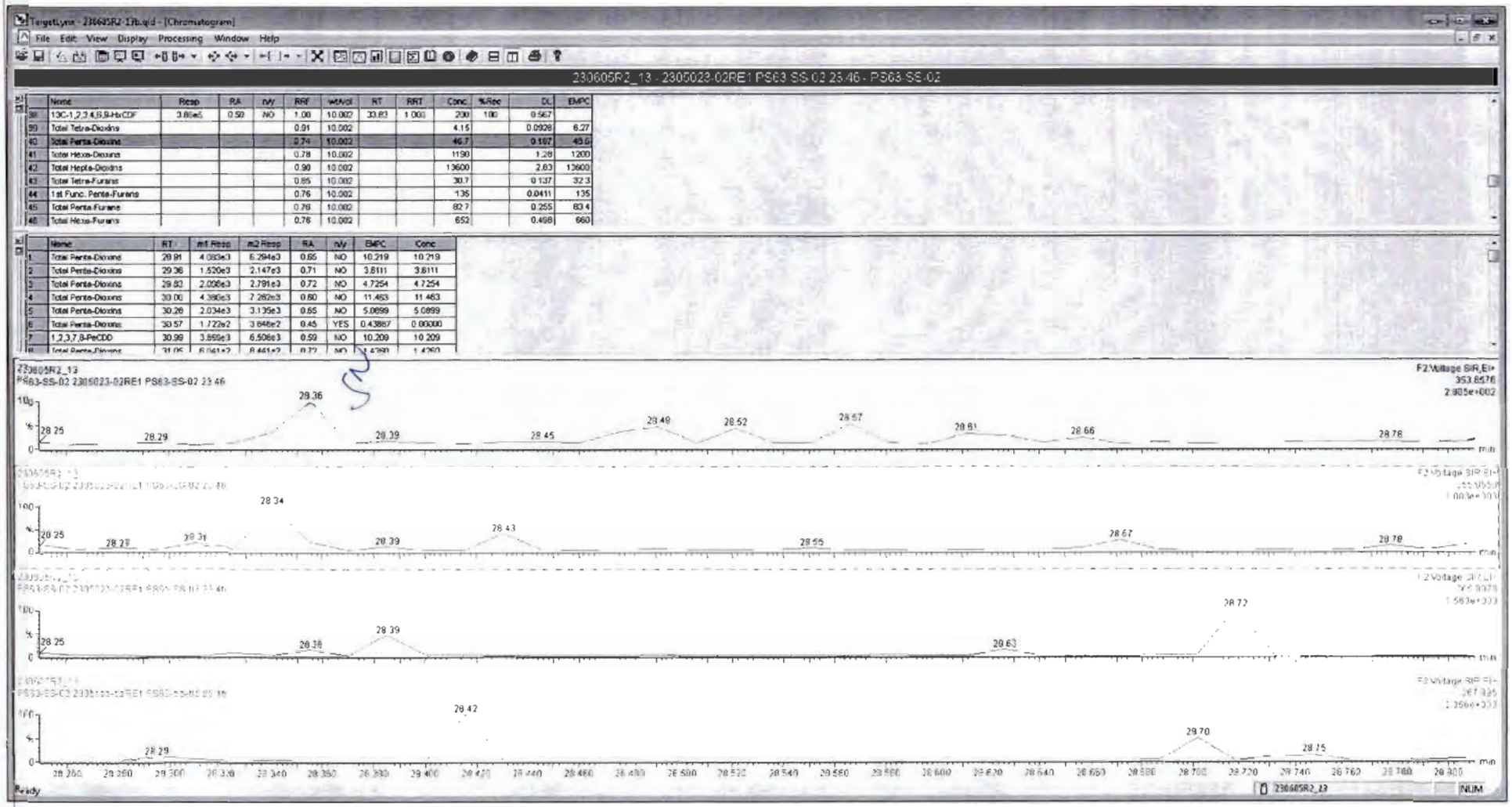




13C-1,2,3,7,8-PeCDD

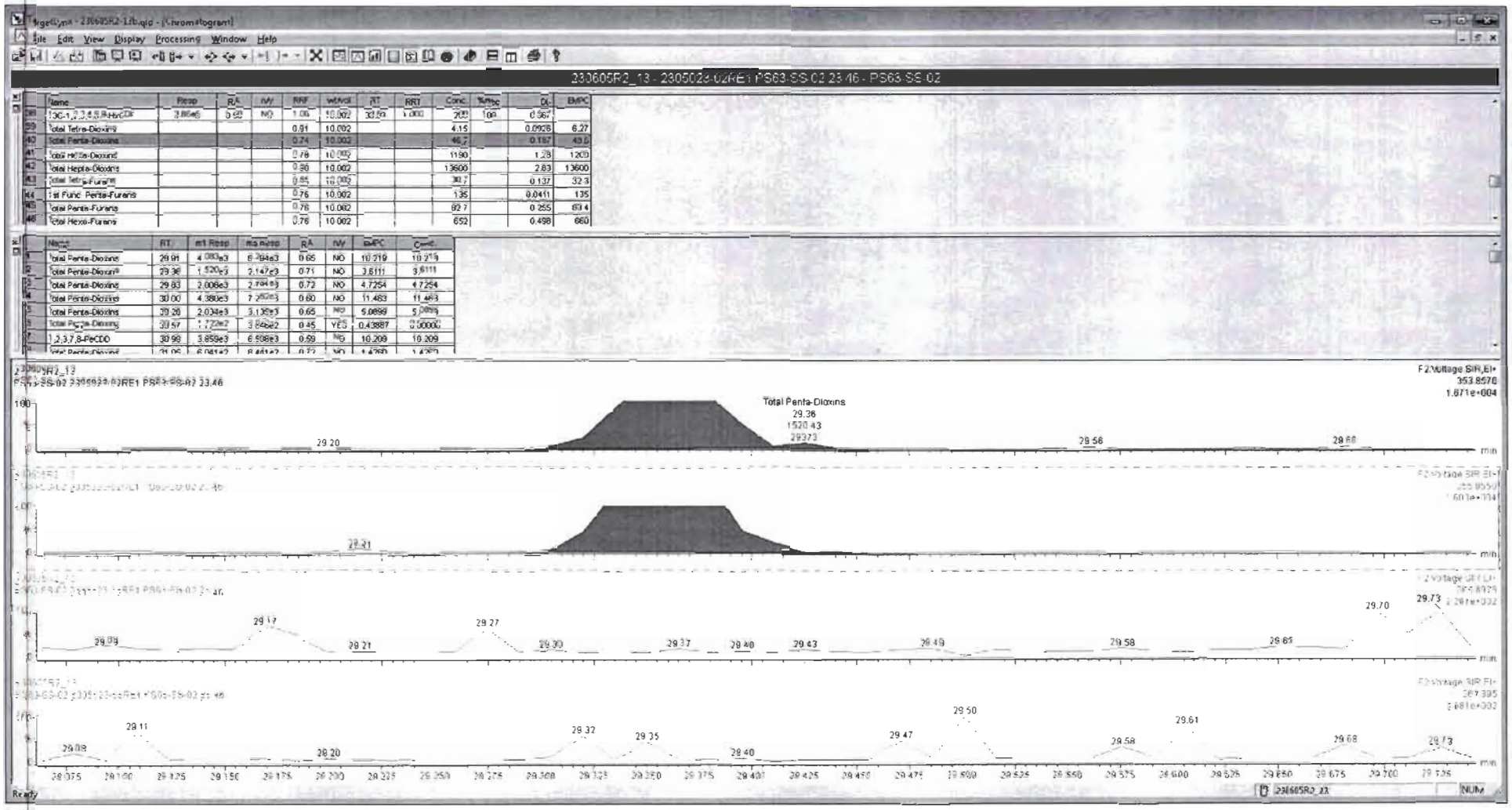


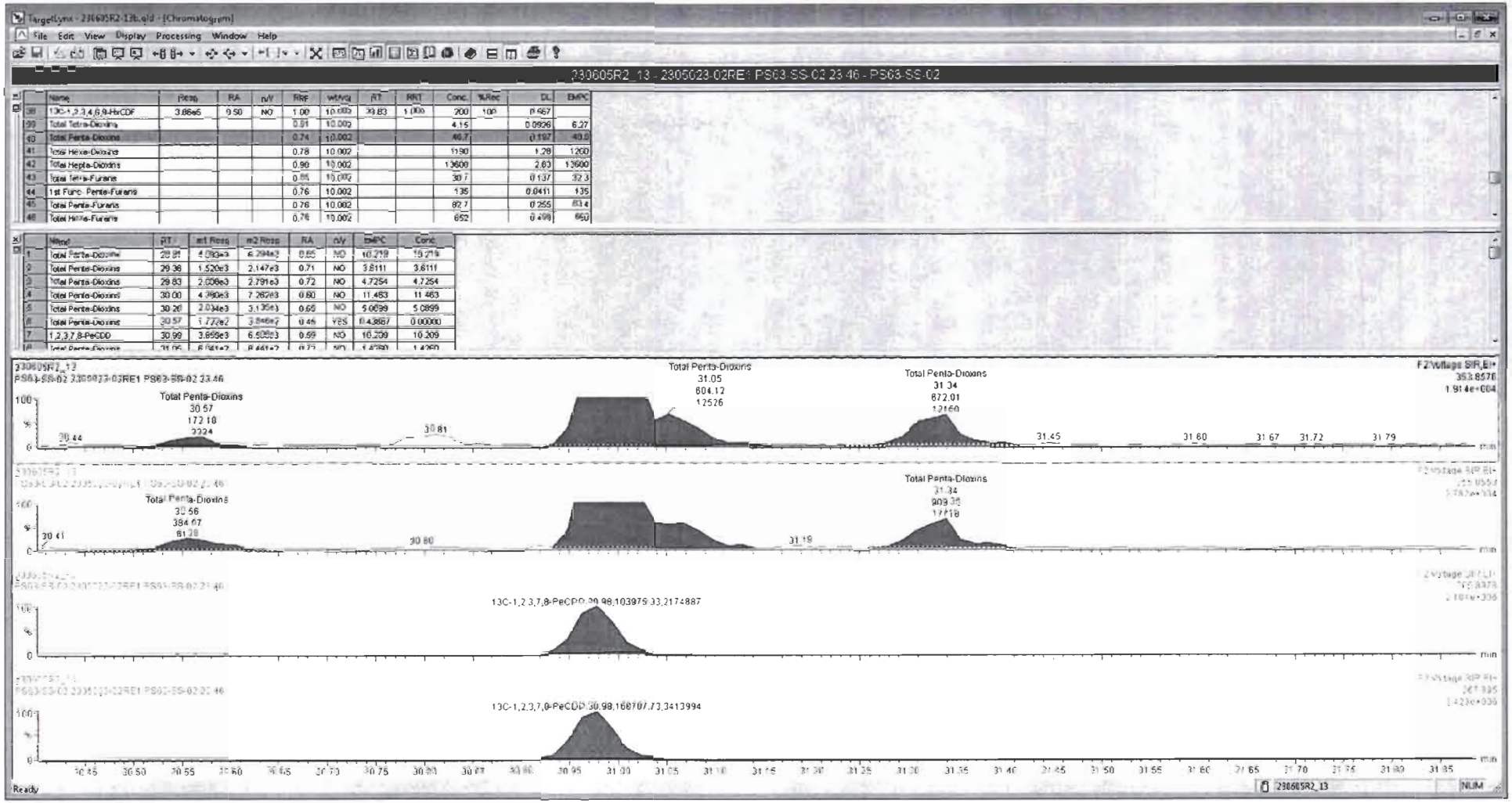




	Name	Resp	RA	rAy	RRF	wtAvol	RT	RRT	Conc	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	3.86e5	0.59	NO	1.00	10.002	33.83	1.000	200	100	0.567	
39	Total Tetra-Dioxins				0.91	10.002			4.15		0.0928	6.27
40	Total Penta-Dioxins				0.74	10.002			46.7		0.197	48.6
41	Total Hexa-Dioxins				0.78	10.002			1190		1.26	1200
42	Total Hepta-Dioxins				0.90	10.002			13600		2.83	13600
43	Total Tetra-Furans				0.85	10.002			30.7		0.137	32.3
44	1st Func. Penta-Furans				0.76	10.002			135		0.0411	135
45	Total Penta-Furans				0.76	10.002			82.7		0.255	83.4
46	Total Hexa-Furans				0.76	10.002			652		0.498	660

	Name	RT	m1 Resp	m2 Resp	RA	rAy	EMPC	Conc
1	Total Penta-Dioxins	28.91	4.083e3	6.294e3	0.65	NO	10.219	10.219
2	Total Penta-Dioxins	29.36	1.520e3	2.147e3	0.71	NO	3.8111	3.8111
3	Total Penta-Dioxins	29.82	2.098e3	2.791e3	0.72	NO	4.7254	4.7254
4	Total Penta-Dioxins	30.00	4.380e3	7.282e3	0.60	NO	11.463	11.463
5	Total Penta-Dioxins	30.26	2.034e3	3.139e3	0.65	NO	5.0899	5.0899
6	Total Penta-Dioxins	30.57	1.722e2	3.648e2	0.45	YES	0.43887	0.00000
7	1,2,3,7,8-PeCDD	30.99	3.859e3	6.508e3	0.59	NO	10.209	10.209
8	Total Penta-Dioxins	31.05	6.061e2	8.461e2	0.72	NO	1.4260	1.4260


File Edit View Display Processing Window Help
230605R2_13 - 2305023-02RE1 PS63-SS-02 23.46 - PS63-SS-02
Total Penta-Dioxins
29.36
1520.43
29373
F2 Voltage SIR EI+
353.8578
1.871e+004
29.20
29.56
29.60
29.21
29.09
29.17
29.21
29.27
29.30
29.37
29.40
29.43
29.49
29.58
29.65
29.70
29.73
29.08
29.11
29.20
29.32
29.35
29.40
29.47
29.50
29.58
29.61
29.68
29.73
min
Ready
NUM



	Name	Resp	RA	n/Y	RRF	wt/vq	RT	RRT	Conc.	%Rec	DL	EMPC
39	13C-1,2,3,4,6,9-HxCDF	3.86e6	0.50	NO	1.00	10.002	30.83	1.000	200	100	0.667	
40	Total Tetra-Dioxins				0.91	10.002			4.15		0.0926	6.27
41	Total Penta-Dioxins				0.74	10.002			46.7		0.197	49.5
42	Total Hexa-Dioxins				0.78	10.002			1190		1.28	1260
43	Total Hepta-Dioxins				0.90	10.002			13600		2.63	13600
44	Total Tetra-Furans				0.85	10.002			30.7		0.137	32.3
45	1st Func. Penta-Furans				0.76	10.002			135		0.0411	135
46	Total Penta-Furans				0.76	10.002			82.7		0.255	83.4
47	Total Hexa-Furans				0.76	10.002			652		0.498	660

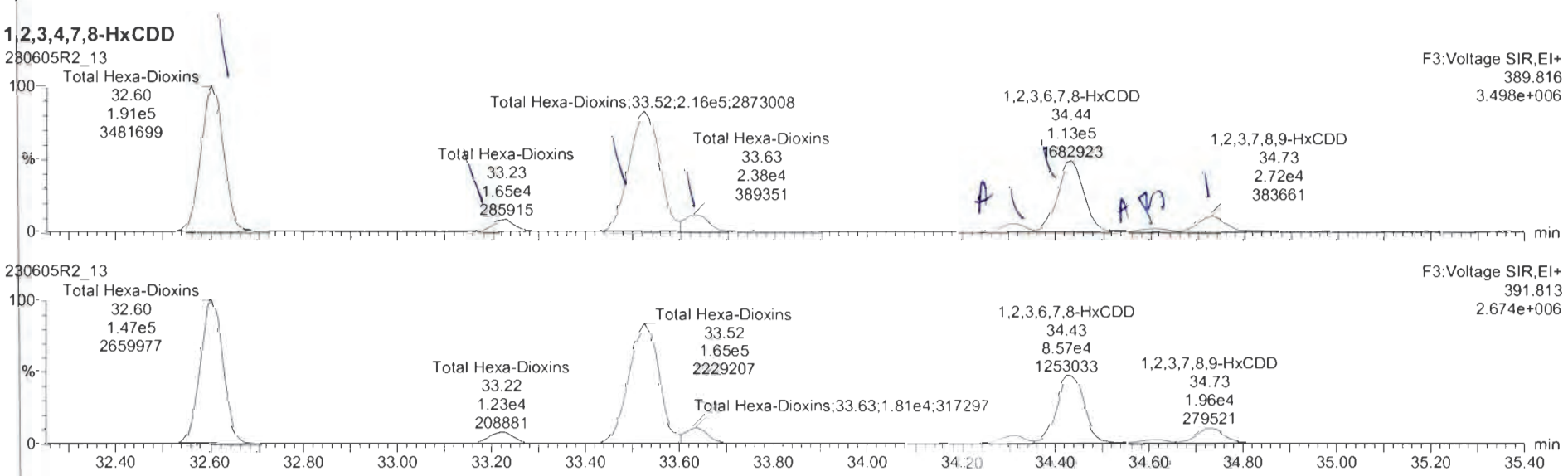
	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.91	4.080e3	6.294e3	0.65	NO	10.219	10.219
2	Total Penta-Dioxins	29.36	1.520e3	2.147e3	0.71	NO	3.8111	3.8111
3	Total Penta-Dioxins	29.83	2.006e3	2.791e3	0.72	NO	4.7254	4.7254
4	Total Penta-Dioxins	30.00	4.590e3	7.267e3	0.63	NO	11.483	11.483
5	Total Penta-Dioxins	30.20	2.034e3	3.135e3	0.65	NO	5.0899	5.0899
6	Total Penta-Dioxins	30.57	1.772e2	3.846e2	0.46	YES	0.43867	0.00000
7	1,2,3,7,8-PeCDD	30.99	3.859e3	6.503e3	0.59	NO	10.209	10.209
8	Total Penta-Dioxins	31.05	6.561e2	8.461e2	0.77	NO	1.4260	1.4260

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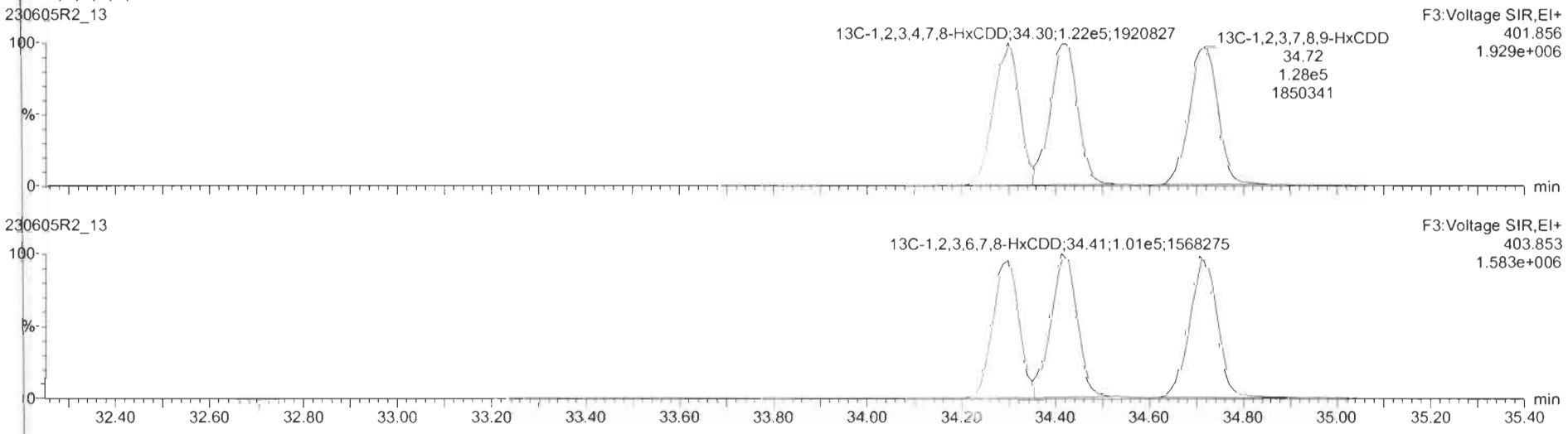
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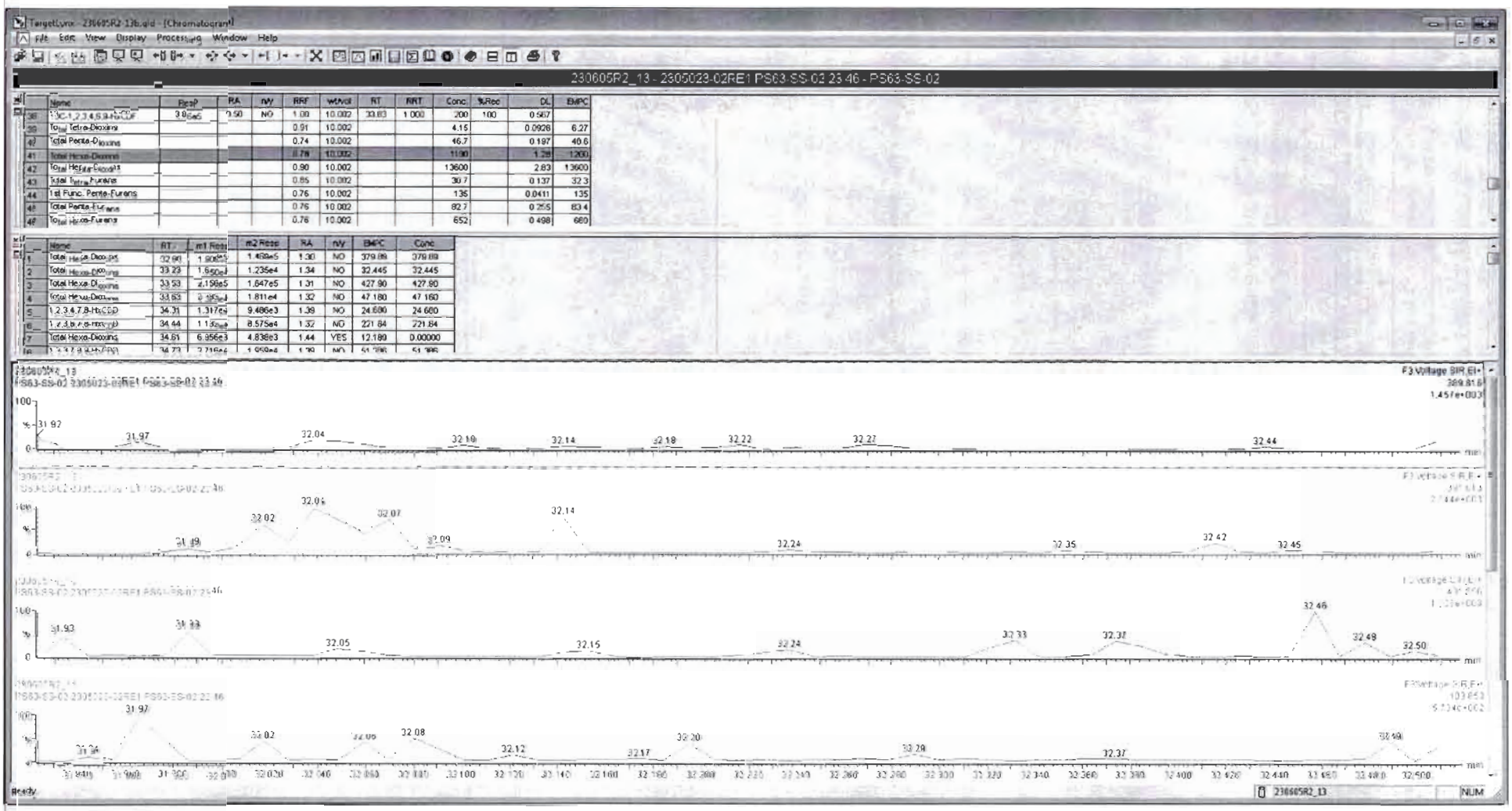
Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: **PS63-SS-02**

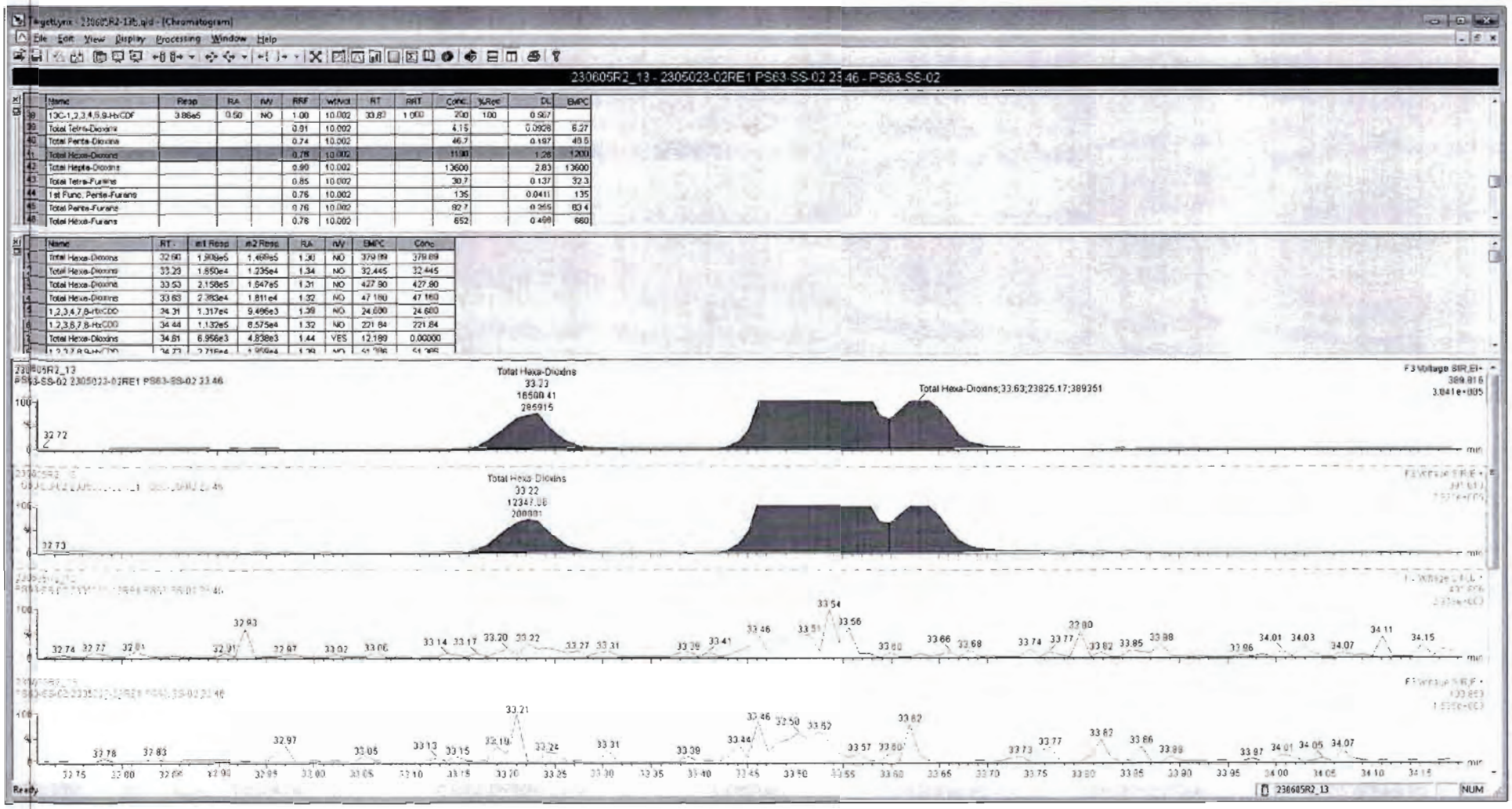
1,2,3,4,7,8-HxCDD

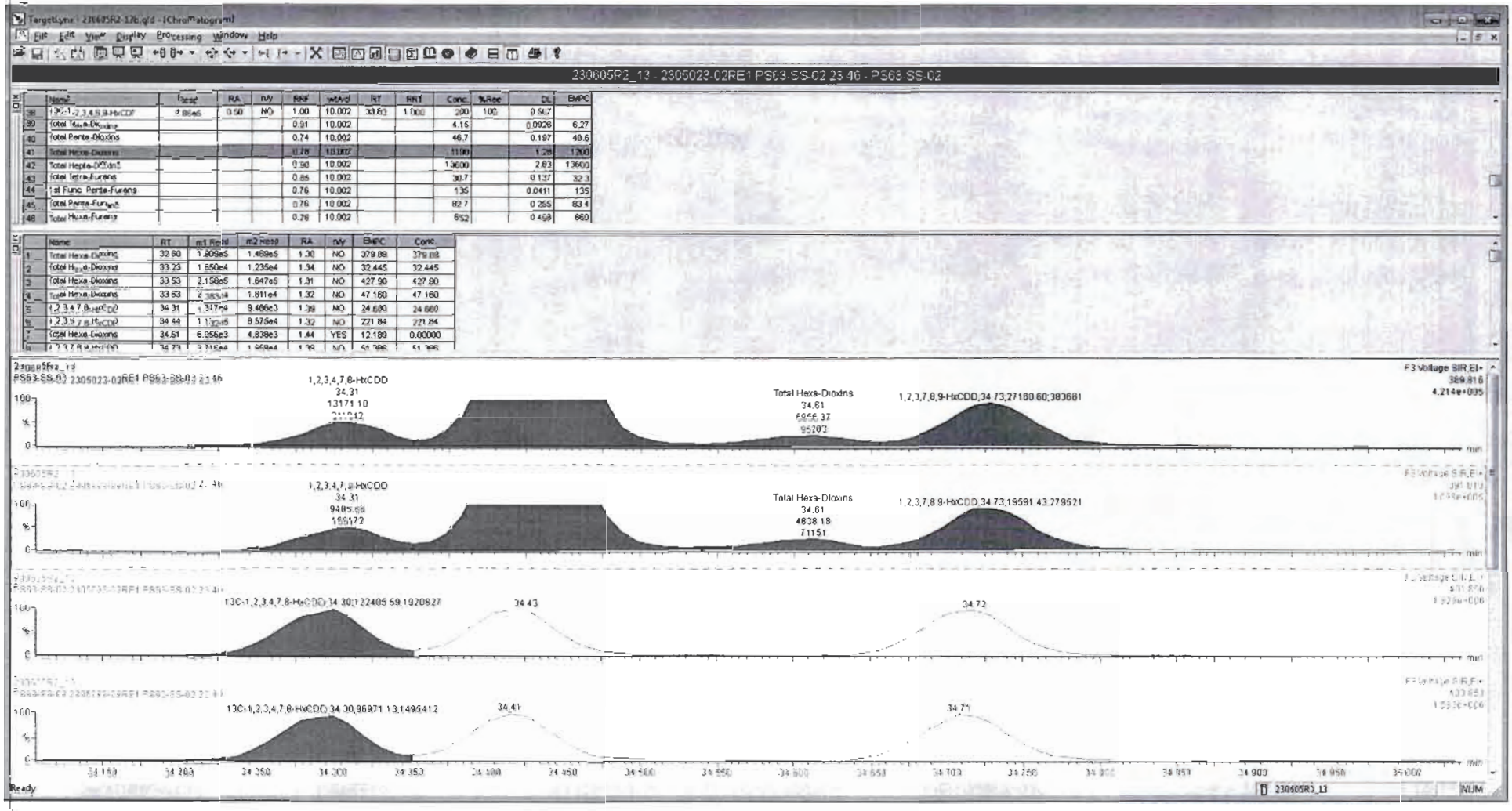


13C-1,2,3,4,7,8-HxCDD




TargetLynx - 230605R2-12b.qld - [Chromatogram]
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230605R2_13 - 2305023-02RE1 PS63-SS-02 23:46 - PS63-SS-02
Name | Resp | RA | nY | RRF | wt/vol | RT | RRT | Conc | %Rec | DL | EMPC
Total Tetra-Dioxins
Total Penta-Dioxins
Total Hexa-Dioxins
1st Func. Penta-Furans
Total Penta-Furans
Total Hexa-Furans
Name | RT | m1 Resp | m2 Resp | RA | nY | EMPC | Conc
Total Hexa-Dioxins | 33.53 | 2.156e5 | 1.647e5 | 1.31 | NO | 427.90 | 427.80
1,2,3,4,7,8-HxCDD | 34.31 | 1.317e4 | 9.486e3 | 1.39 | NO | 24.600 | 24.600
Total Hexa-Dioxins | 34.61 | 6.356e3 | 4.838e3 | 1.44 | YES | 12.189 | 0.00000
F3:Voltage SIR,EI+
Ready
NUM


TargetLynx - 230605R2-13b.qld - [Chromatogram]
File Edit View Display Processing Window Help
230605R2_13 - 2305023-02RE1 PS63-SS-02 23:46 - PS63-SS-02
Total Hexa-Dioxins
33.23
16500.41
285915
Total Hexa-Dioxins;33.63;23825.17;389351
32.72
Total Hexa-Dioxins
33.22
12347.06
208001
32.73
Ready
230605R2_13
NUM

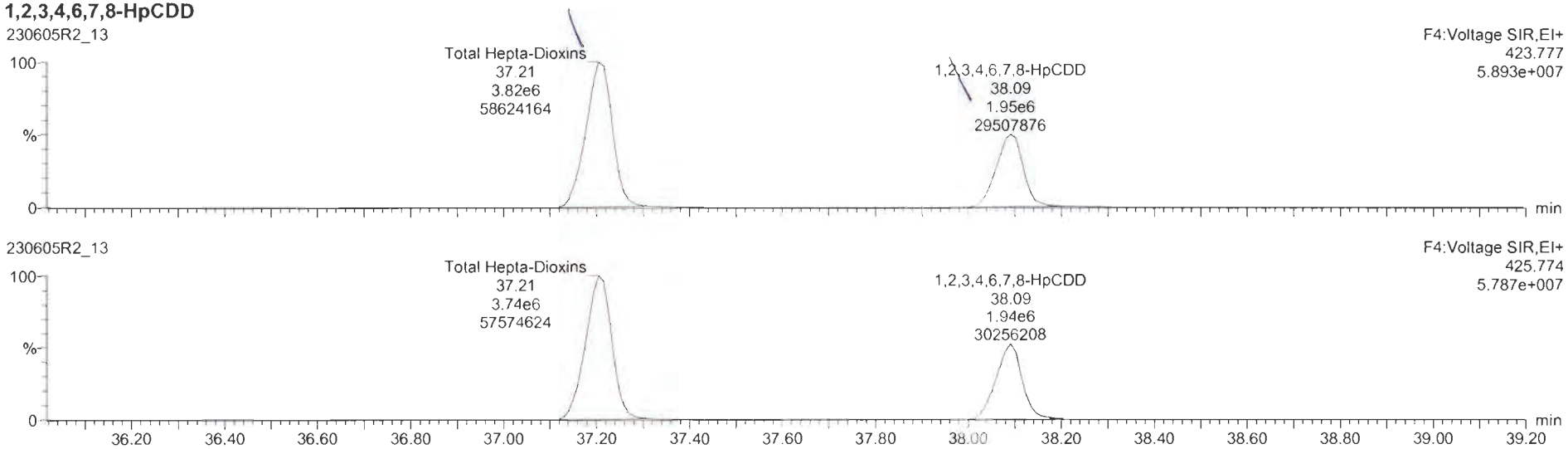

230605R2_13 - 2305023-02RE1 PS63-SS-02 23:46 - PS63-SS-02
1,2,3,4,7,8-HxCDD
34.31
13171.10
Total Hexa-Dioxins
34.61
6956.37
95203
1,2,3,7,8,9-HxCDD 34.73 27180.60 383681
1,2,3,4,7,8-HxCDD
34.31
9485.55
Total Hexa-Dioxins
34.61
4838.18
71151
1,2,3,7,8,9-HxCDD 34.73 19591.43 279521
13C-1,2,3,4,7,8-HxCDD 34.30 22405.59 1920827
34.43
34.72
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34.41
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Ready

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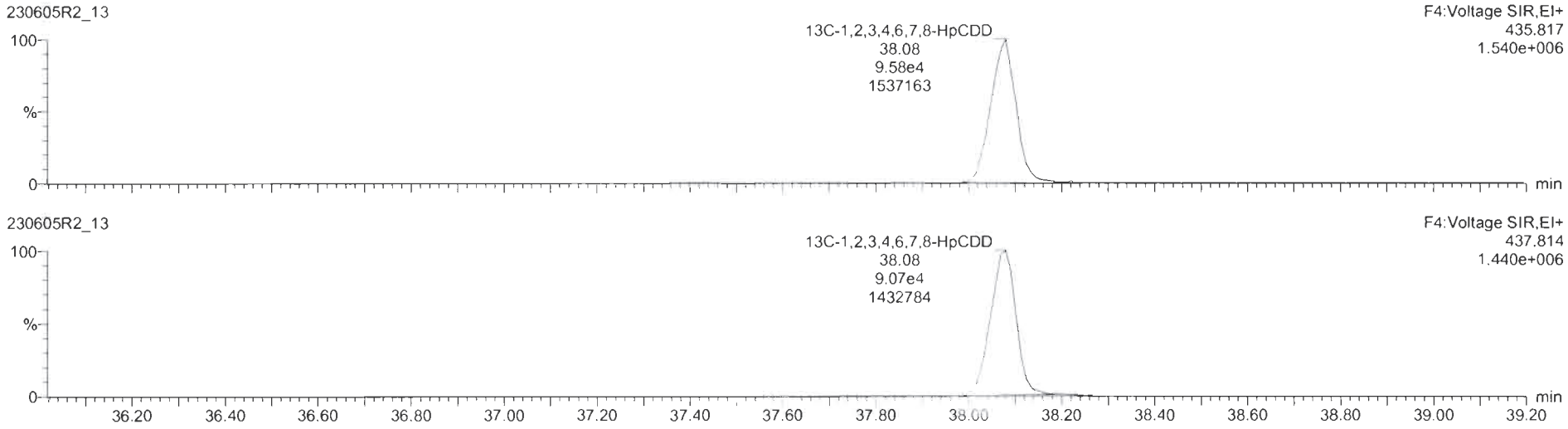
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Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02

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



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

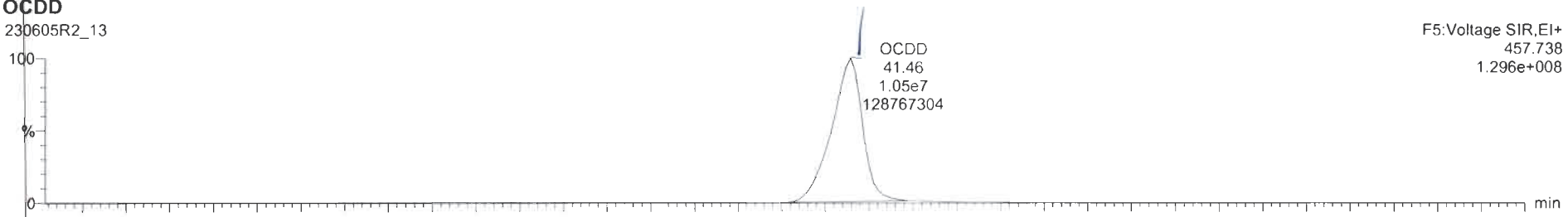


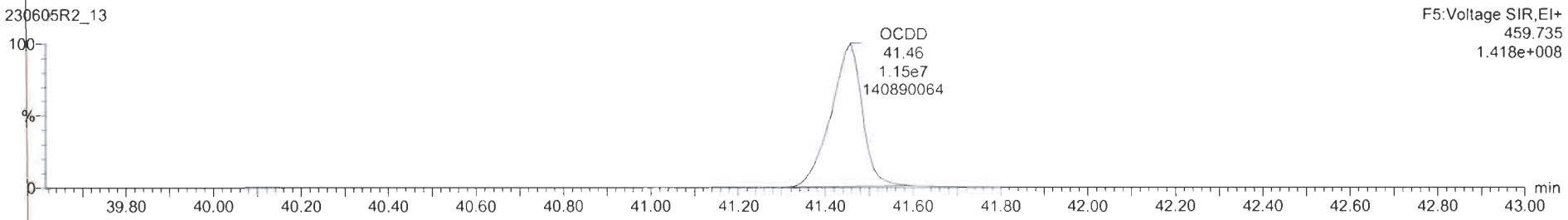
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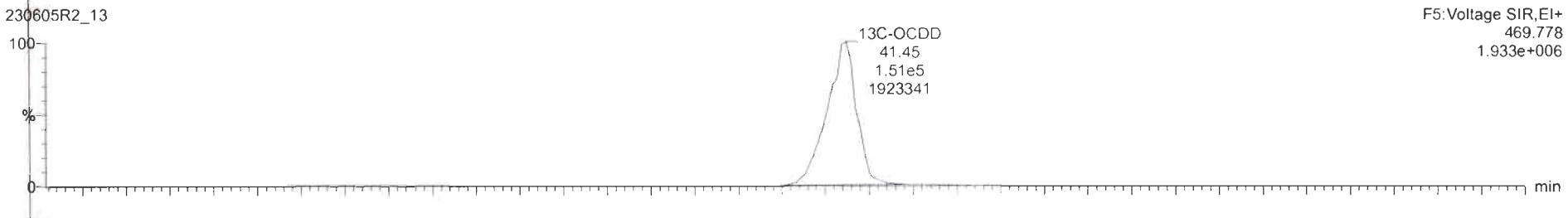
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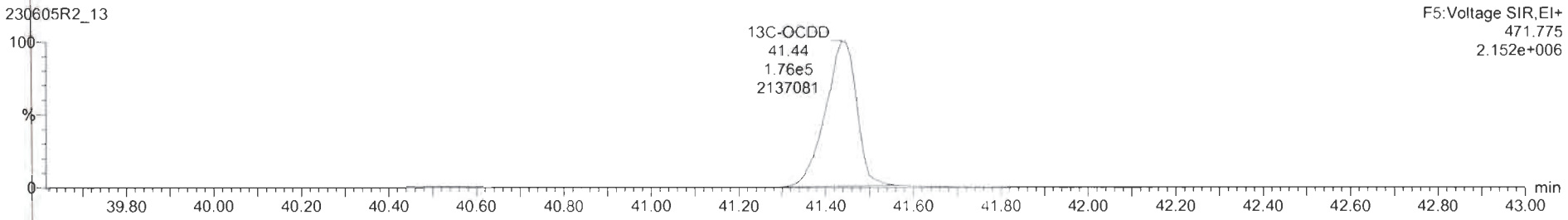
OCDD





13C-OCDD



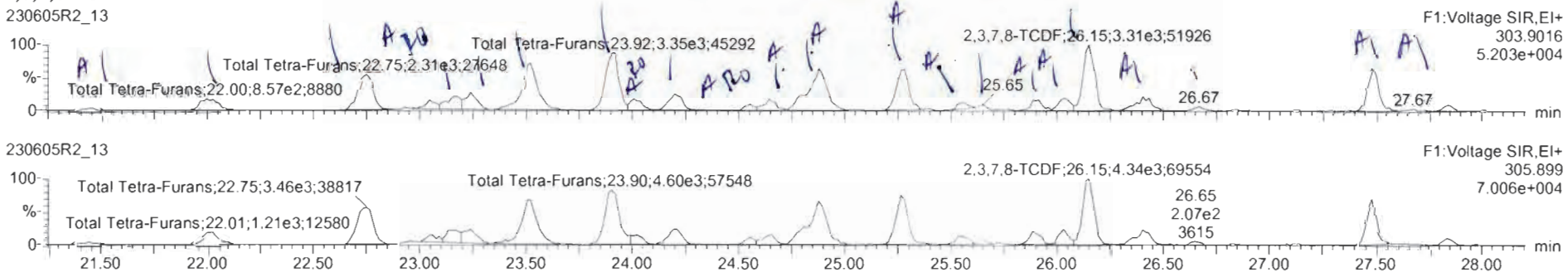


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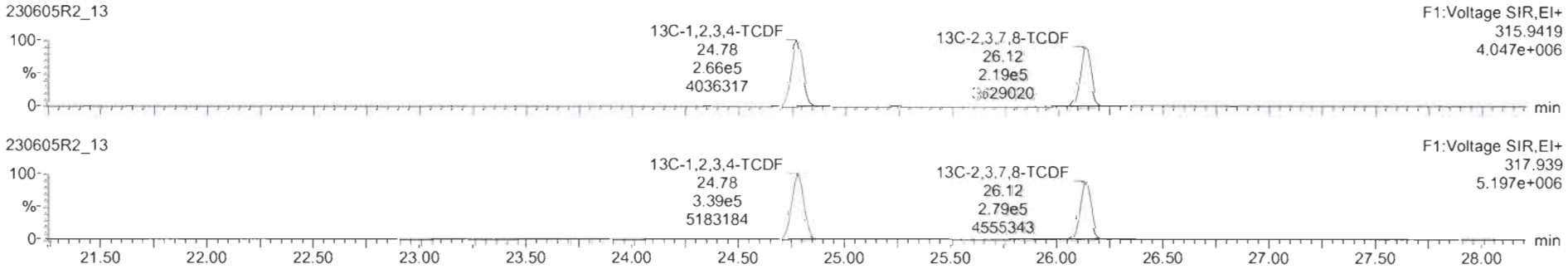
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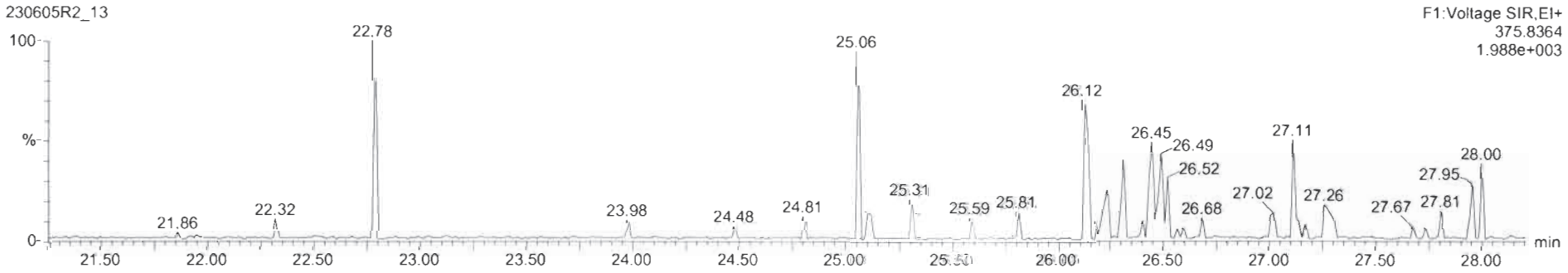
2,3,7,8-TCDF

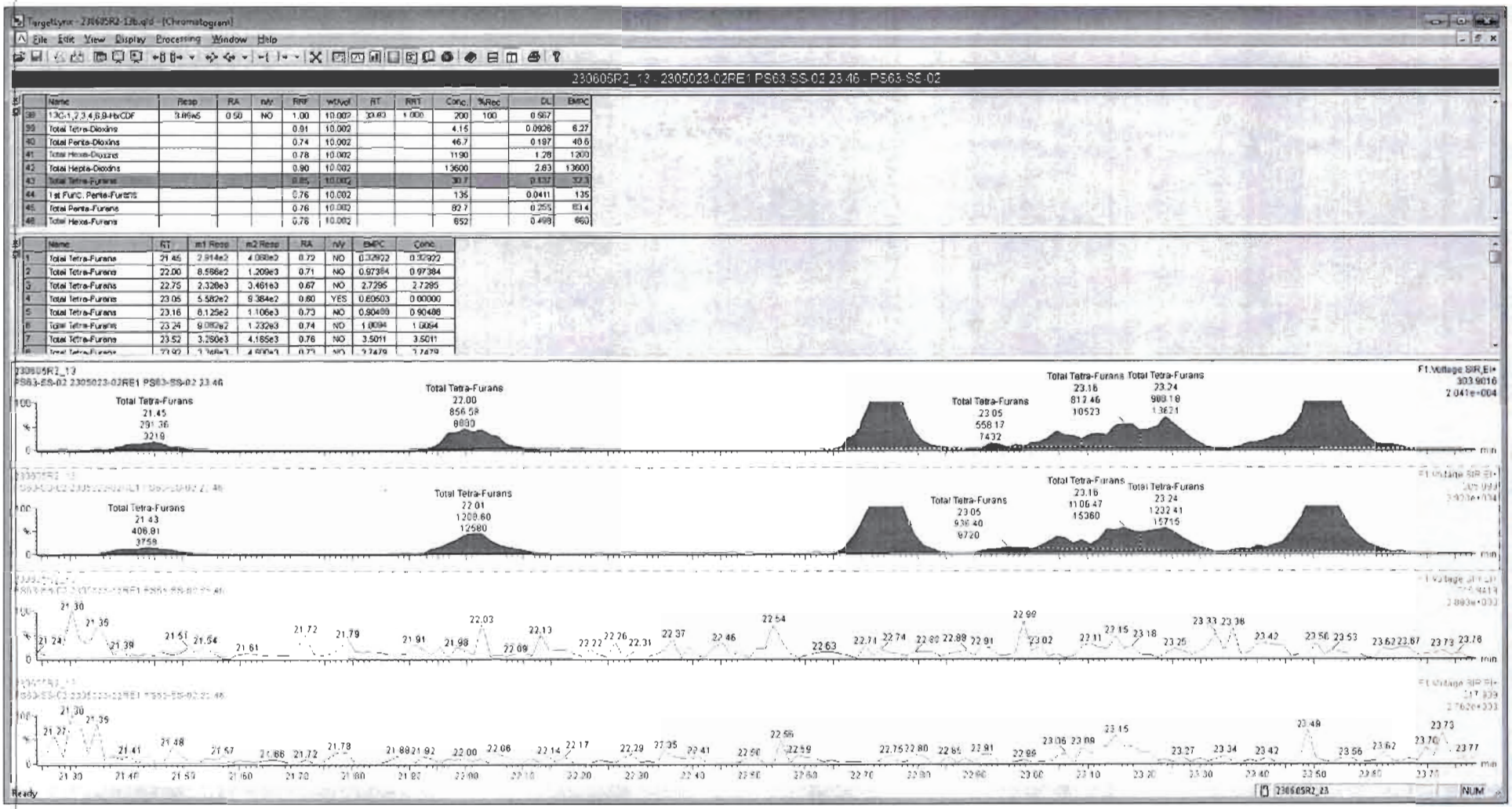


13C-2,3,7,8-TCDF



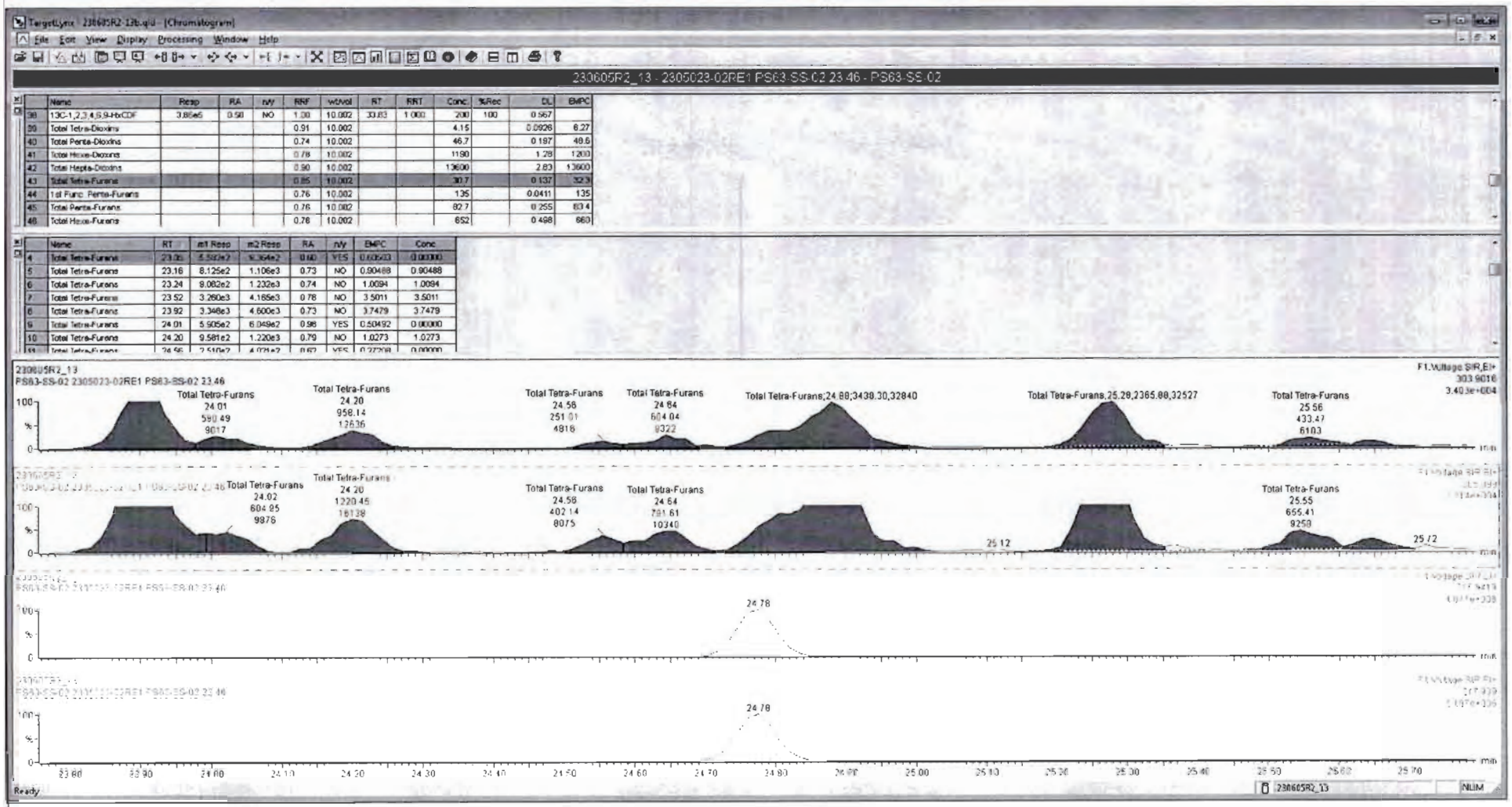
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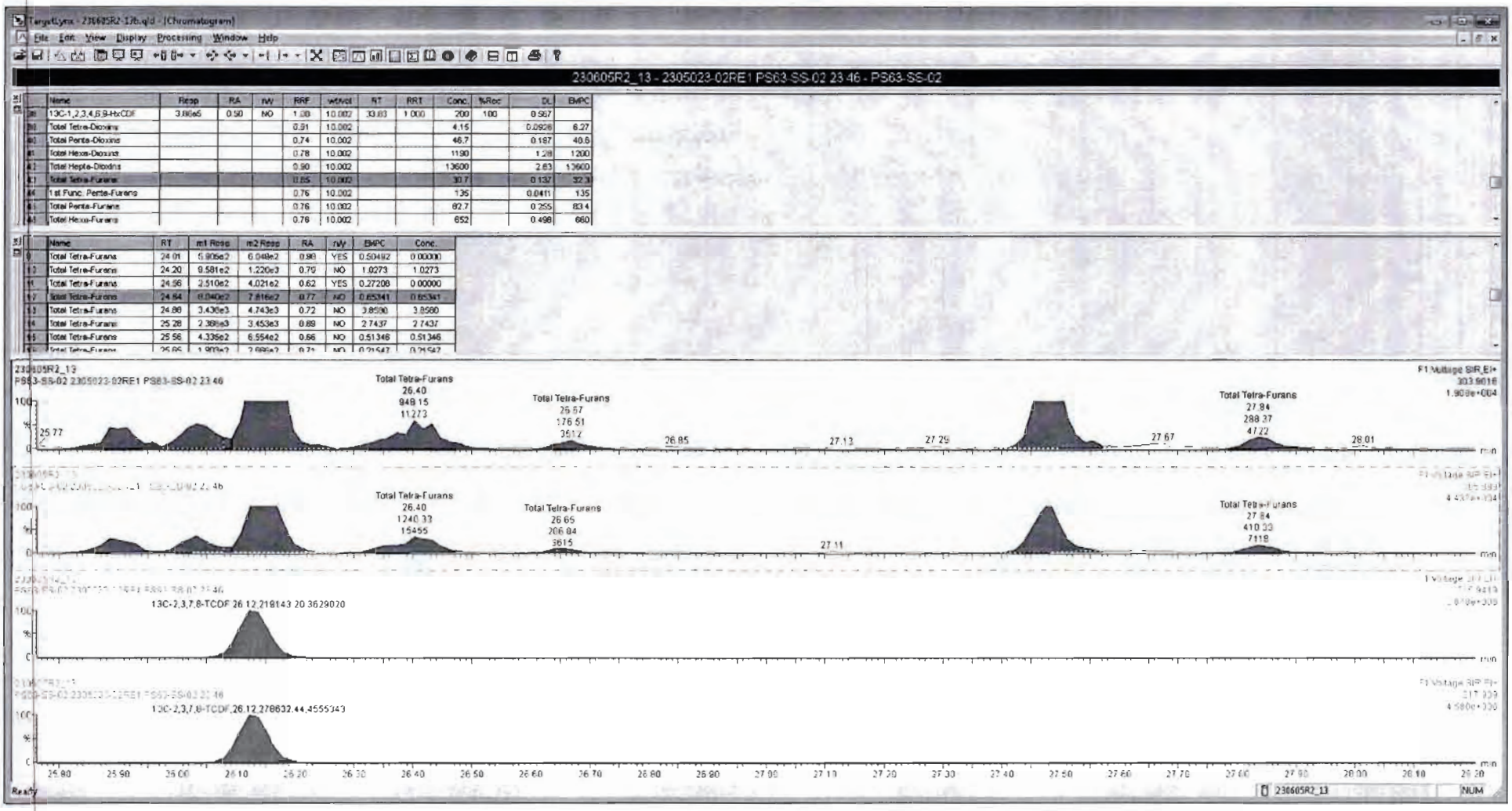




	Name	Resp	RA	nV	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	13C-1,2,3,4,6,9-HxCDF	3.86e5	0.50	NO	1.00	10.002	30.83	1.000	200	100	0.967	
39	Total Tetra-Dioxins				0.91	10.002			4.15		0.0926	6.27
40	Total Penta-Dioxins				0.74	10.002			46.7		0.197	40.6
41	Total Hexa-Dioxins				0.78	10.002			1190		1.28	1200
42	Total Hepta-Dioxins				0.90	10.002			13600		2.83	13600
43	Total Tetra-Furans				0.85	10.002			307		0.832	323
44	1st Func. Penta-Furans				0.76	10.002			135		0.0411	135
45	Total Penta-Furans				0.76	10.002			827		0.255	814
46	Total Hexa-Furans				0.76	10.002			652		0.498	660

	Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc.
1	Total Tetra-Furans	21.45	2.914e2	4.068e2	0.72	NO	0.32922	0.32922
2	Total Tetra-Furans	22.00	8.586e2	1.209e3	0.71	NO	0.97384	0.97384
3	Total Tetra-Furans	22.75	2.328e3	3.461e3	0.67	NO	2.7295	2.7295
4	Total Tetra-Furans	23.05	5.582e2	9.384e2	0.60	YES	0.60503	0.00000
5	Total Tetra-Furans	23.16	8.125e2	1.106e3	0.73	NO	0.90488	0.90488
6	Total Tetra-Furans	23.24	9.082e2	1.232e3	0.74	NO	1.0084	1.0084
7	Total Tetra-Furans	23.52	3.260e3	4.185e3	0.78	NO	3.5011	3.5011
8	Total Tetra-Furans	23.92	3.768e3	4.890e3	0.77	NO	3.7479	3.7479


TargetLynx 230605R2 12b.qld - [Chromatogram]
File Edit View Display Processing Window Help
230605R2_13 - 2305023-02RE1 PS63-SS-02 23.46 - PS63-SS-02
Total Tetra-Furans 24.01 580.49 9017
Total Tetra-Furans 24.20 958.14 12636
Total Tetra-Furans 24.56 251.01 4816
Total Tetra-Furans 24.64 604.04 9322
Total Tetra-Furans;24.88;3438.30,32840
Total Tetra-Furans,25.28,2365.88,32527
Total Tetra-Furans 25.56 433.47 6103
Total Tetra-Furans 24.02 604.95 9878
Total Tetra-Furans 24.20 1220.45 16138
Total Tetra-Furans 24.56 402.14 8075
Total Tetra-Furans 24.64 781.61 10340
25.12
Total Tetra-Furans 25.55 655.41 9250
25.12
24.78
24.78
Ready


230605R2_13 - 2305023-02RE1 PS63-SS-02 23:46 - PS63-SS-02
Total Tetra-Furans
26.40
948.15
11273
Total Tetra-Furans
26.67
176.51
3612
Total Tetra-Furans
27.84
288.37
4722
Total Tetra-Furans
26.40
1240.33
15455
Total Tetra-Furans
26.65
206.84
3615
Total Tetra-Furans
27.84
410.33
7118
13C-2,3,7,8-TCDF 26.12.218143 20.3629020
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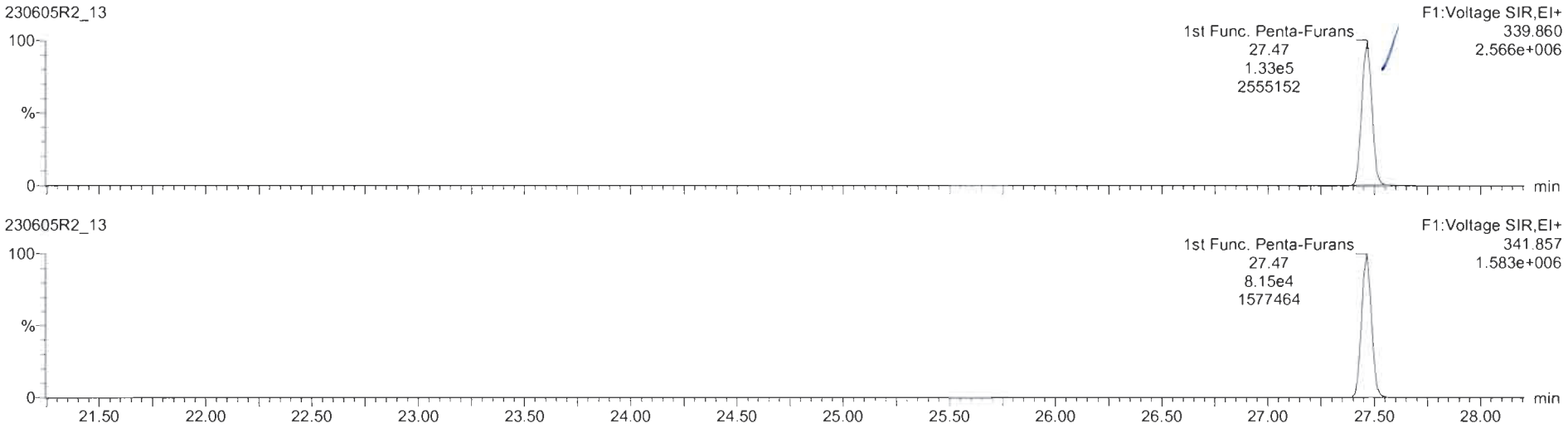
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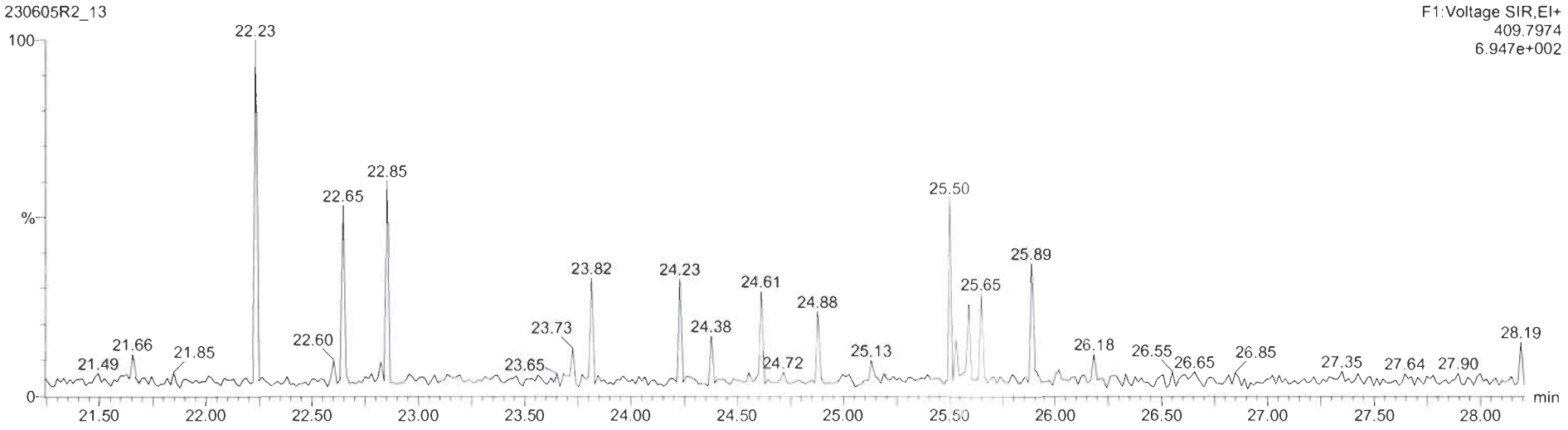
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Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02

1st Func. Penta-Furans



DPE6

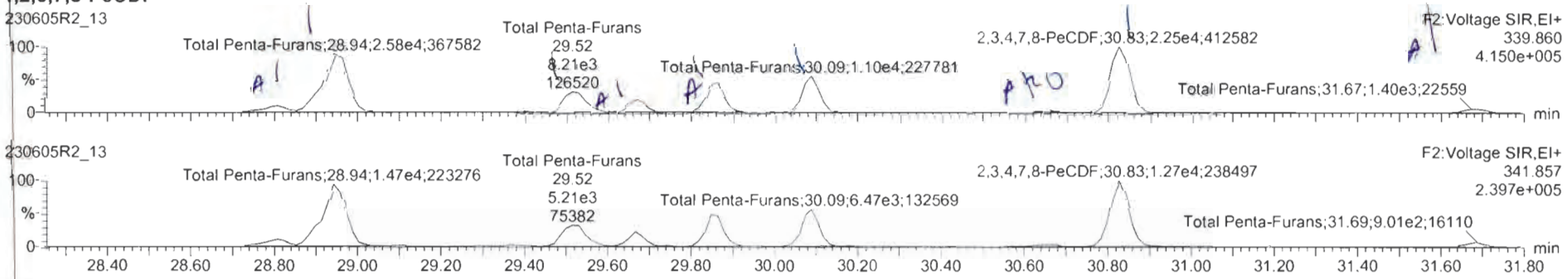


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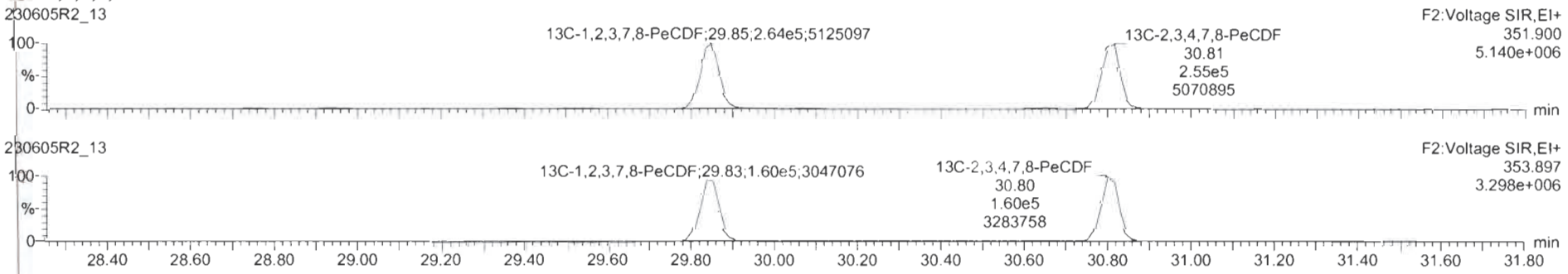
Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02

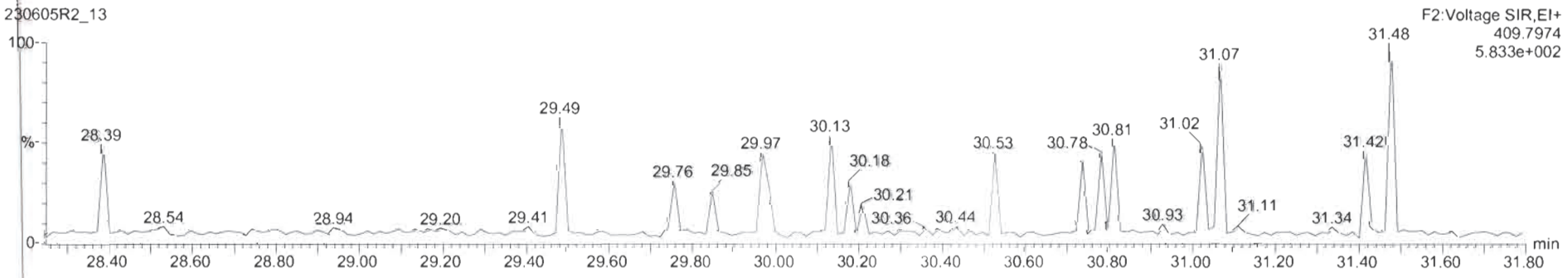
1,2,3,7,8-PeCDF

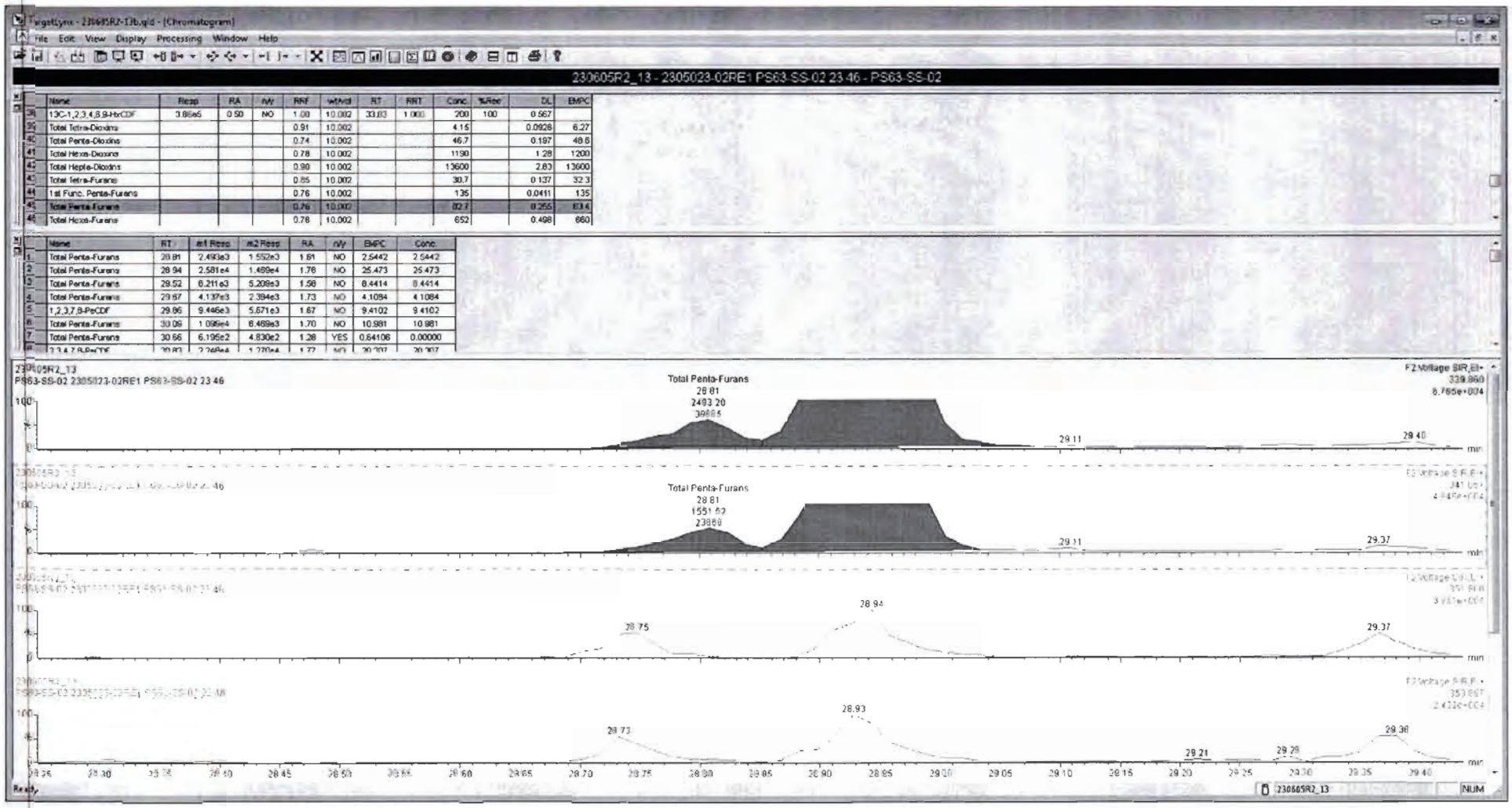


13C-1,2,3,7,8-PeCDF

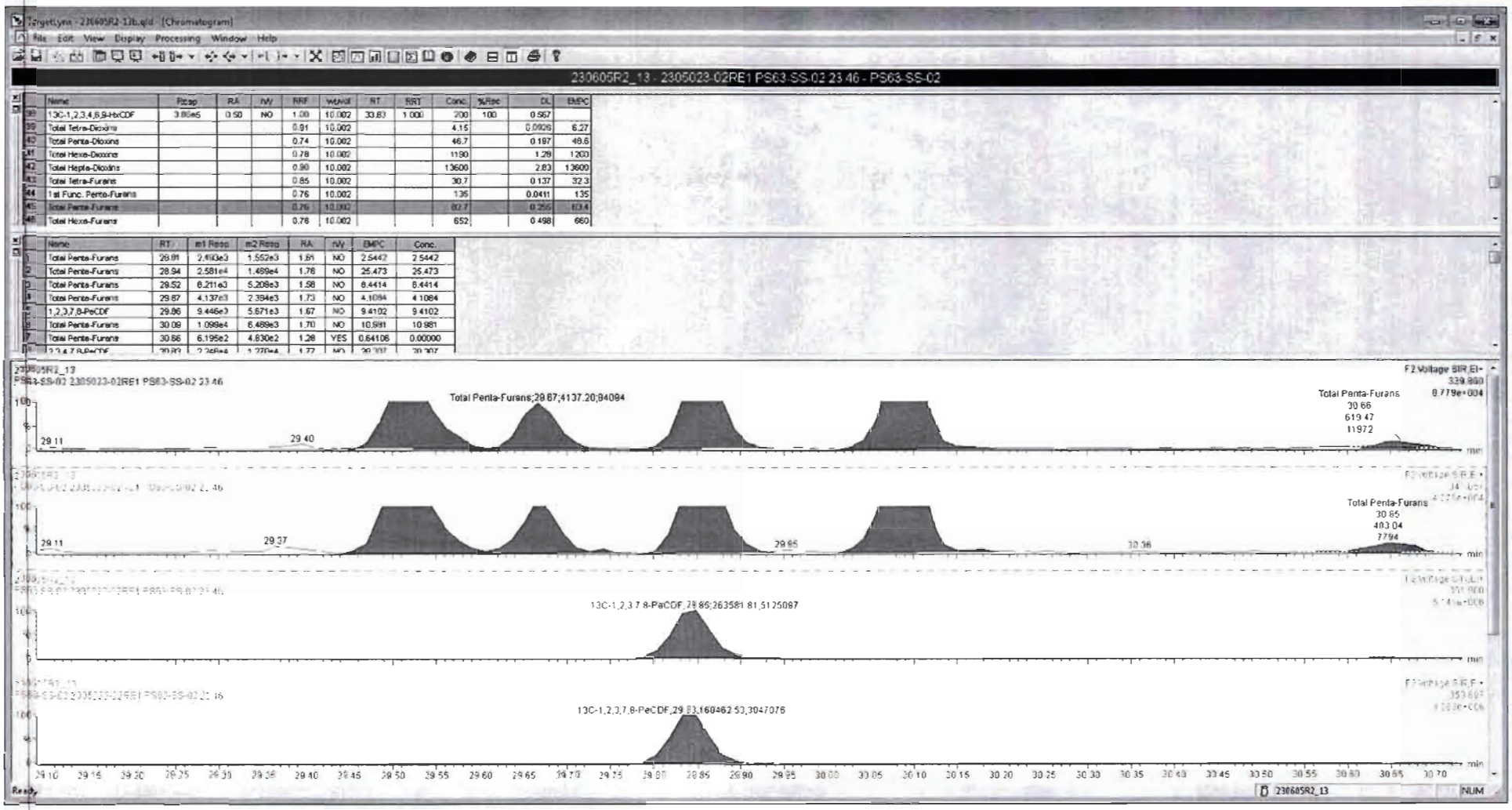


DPE2

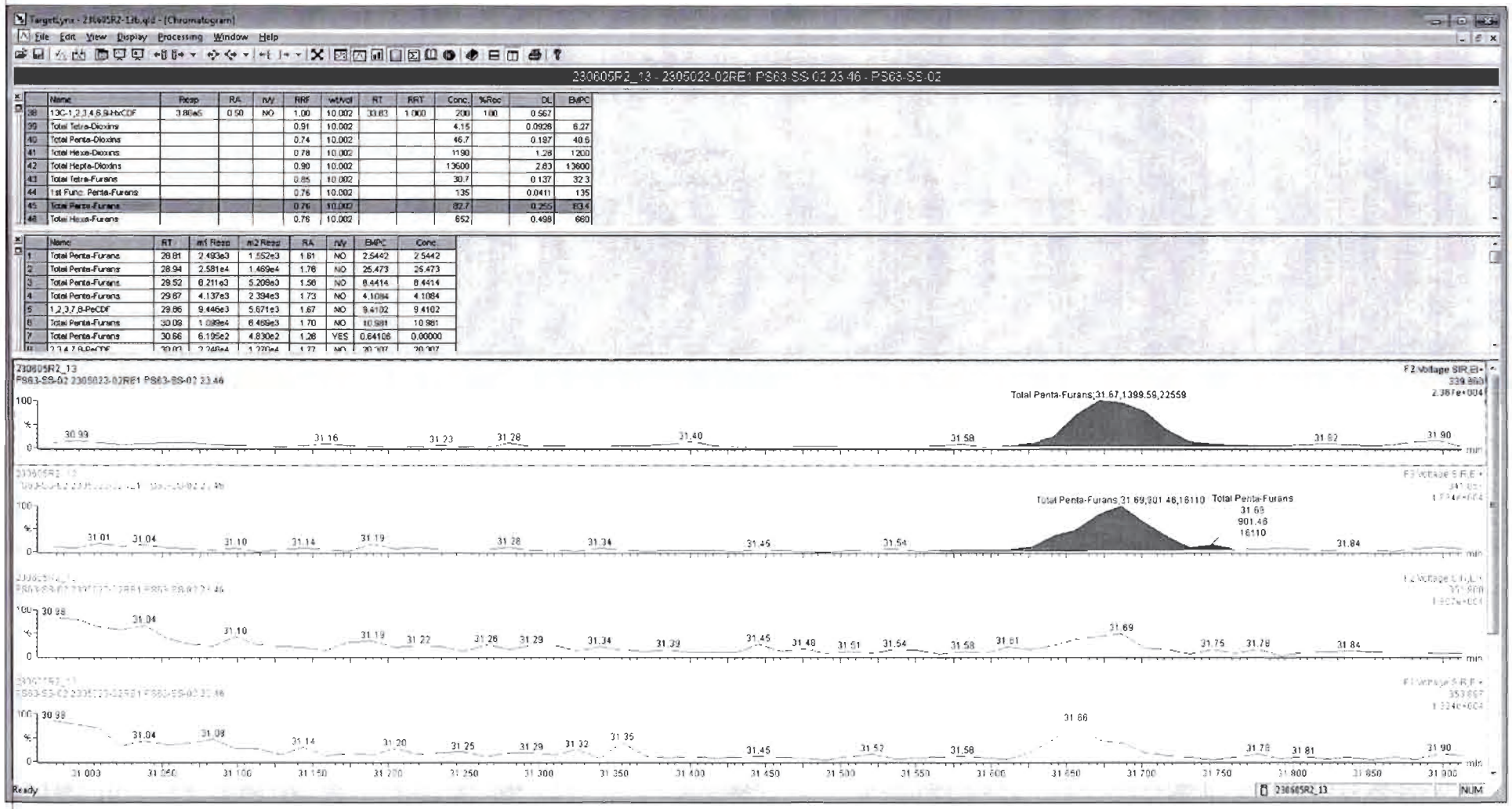



TargetLynx - 230605R2-13b.qld - [Chromatogram]
File Edit View Display Processing Window Help
230605R2_13 - 2305023-02RE1 PS63-SS-02 23 46 - PS63-SS-02
Total Penta-Furans
28 81
2483 20
Total Penta-Furans
28 81
1551 62
28 75
28 94
28 73
28 93
29 11
29 40
29 37
29 21
29 28
29 30
230605R2_13
NUM

p


TargetLynx - 230605R2-13b.qld [Chromatogram]
File Edit View Display Processing Window Help
230605R2_13 - 2305023-02RE1 PS63-SS-02 23 46 - PS63-SS-02
Total Penta-Furans;29.87;4137.20;84094
Total Penta-Furans
30.66
619.47
11972
Total Penta-Furans
30.65
403.04
7794
13C-1,2,3,7,8-PeCDF;29.86;263581.81;5125087
13C-1,2,3,7,8-PeCDF;29.83;160462.53;3047076
29.11
29.40
29.37
29.85
30.36
Ready
230605R2_13
NUM

p



	Name	Resp	RA	nAy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,9-HxCDF	3.86e6	0.50	NO	1.00	10.002	33.83	1.000	200	100	0.567	
39	Total Tetra-Dioxins				0.91	10.002			4.15		0.0928	6.27
40	Total Penta-Dioxins				0.74	10.002			46.7		0.197	40.6
41	Total Hexa-Dioxins				0.78	10.002			1190		1.28	1200
42	Total Hepta-Dioxins				0.90	10.002			13600		2.83	13600
43	Total Tetra-Furans				0.85	10.002			30.7		0.137	32.3
44	1st Func. Penta-Furans				0.76	10.002			135		0.0411	135
45	Total Penta-Furans				0.76	10.002			82.7		0.255	83.4
46	Total Hexa-Furans				0.76	10.002			652		0.498	660

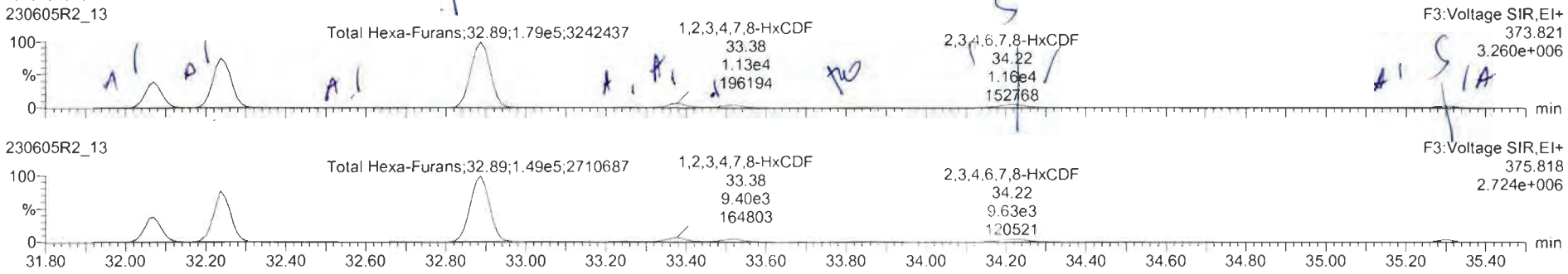
	Name	RT	m1 Resp	m2 Resp	RA	nAy	EMPC	Conc
1	Total Penta-Furans	28.81	2.493e3	1.552e3	1.61	NO	2.5442	2.5442
2	Total Penta-Furans	28.94	2.581e4	1.469e4	1.76	NO	25.473	25.473
3	Total Penta-Furans	29.52	8.211e3	5.209e3	1.58	NO	8.4414	8.4414
4	Total Penta-Furans	29.87	4.137e3	2.394e3	1.73	NO	4.1084	4.1084
5	1,2,3,7,8-PeCDF	29.86	9.446e3	5.671e3	1.67	NO	9.4102	9.4102
6	Total Penta-Furans	30.09	1.089e4	6.489e3	1.70	NO	10.981	10.981
7	Total Penta-Furans	30.66	6.195e2	4.830e2	1.28	YES	0.64106	0.00000
8	2,3,4,7,8-PeCDF	30.93	2.248e4	1.220e4	1.77	NO	20.307	20.307

Dataset: Untitled

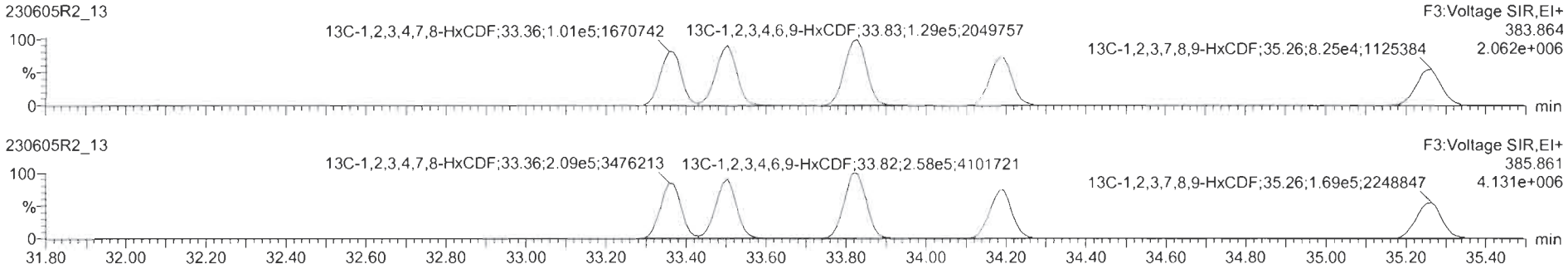
Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: **PS63-SS-02**

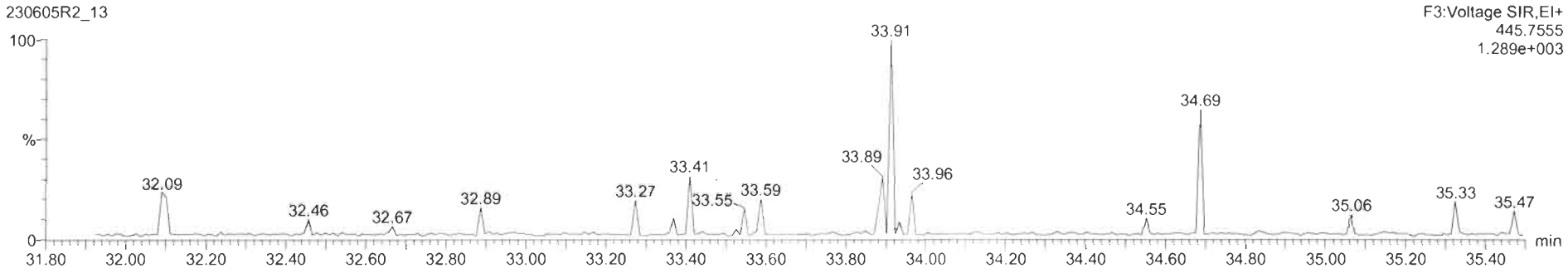
1,2,3,4,7,8-HxCDF

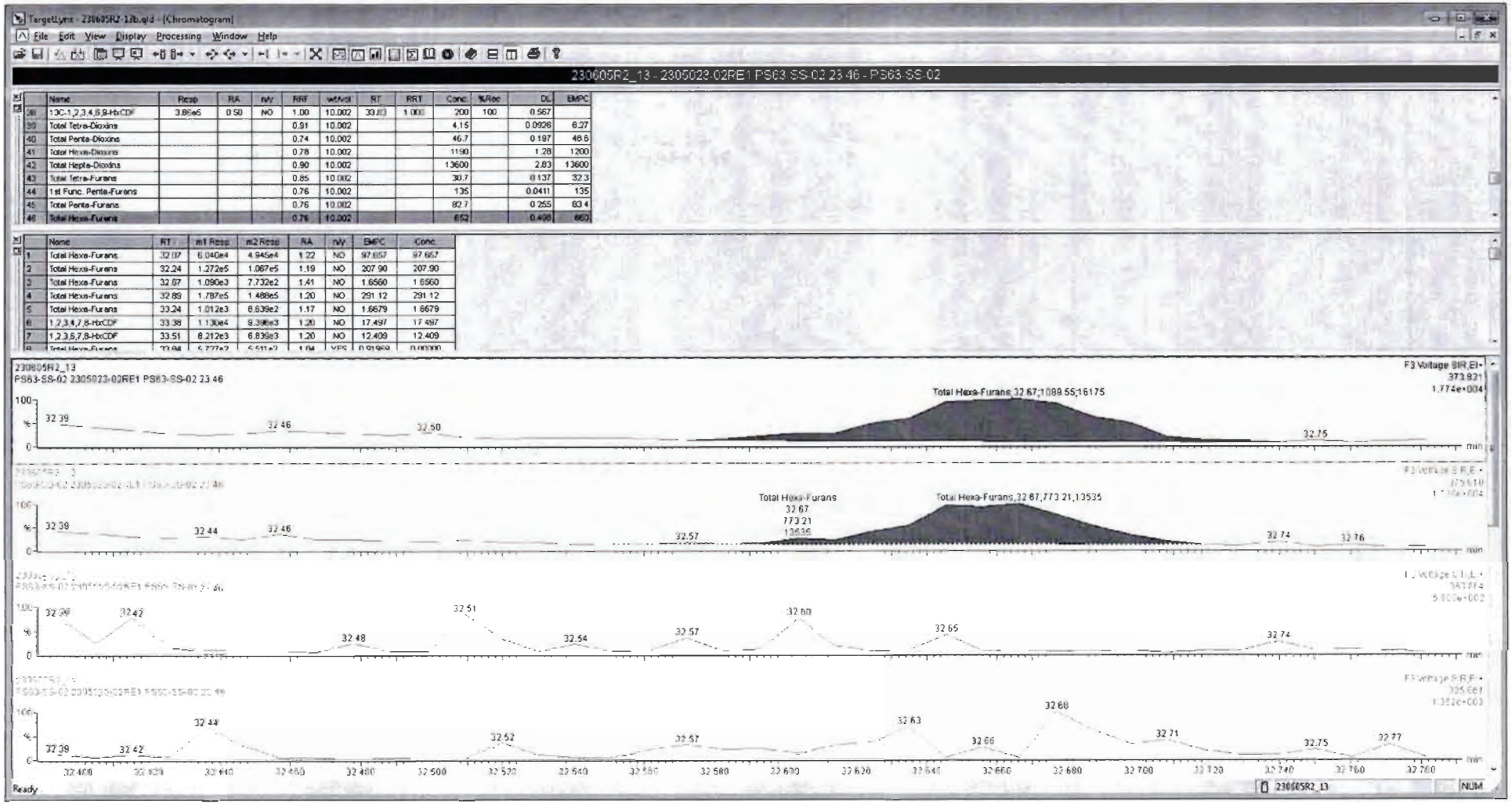


13C-1,2,3,4,7,8-HxCDF

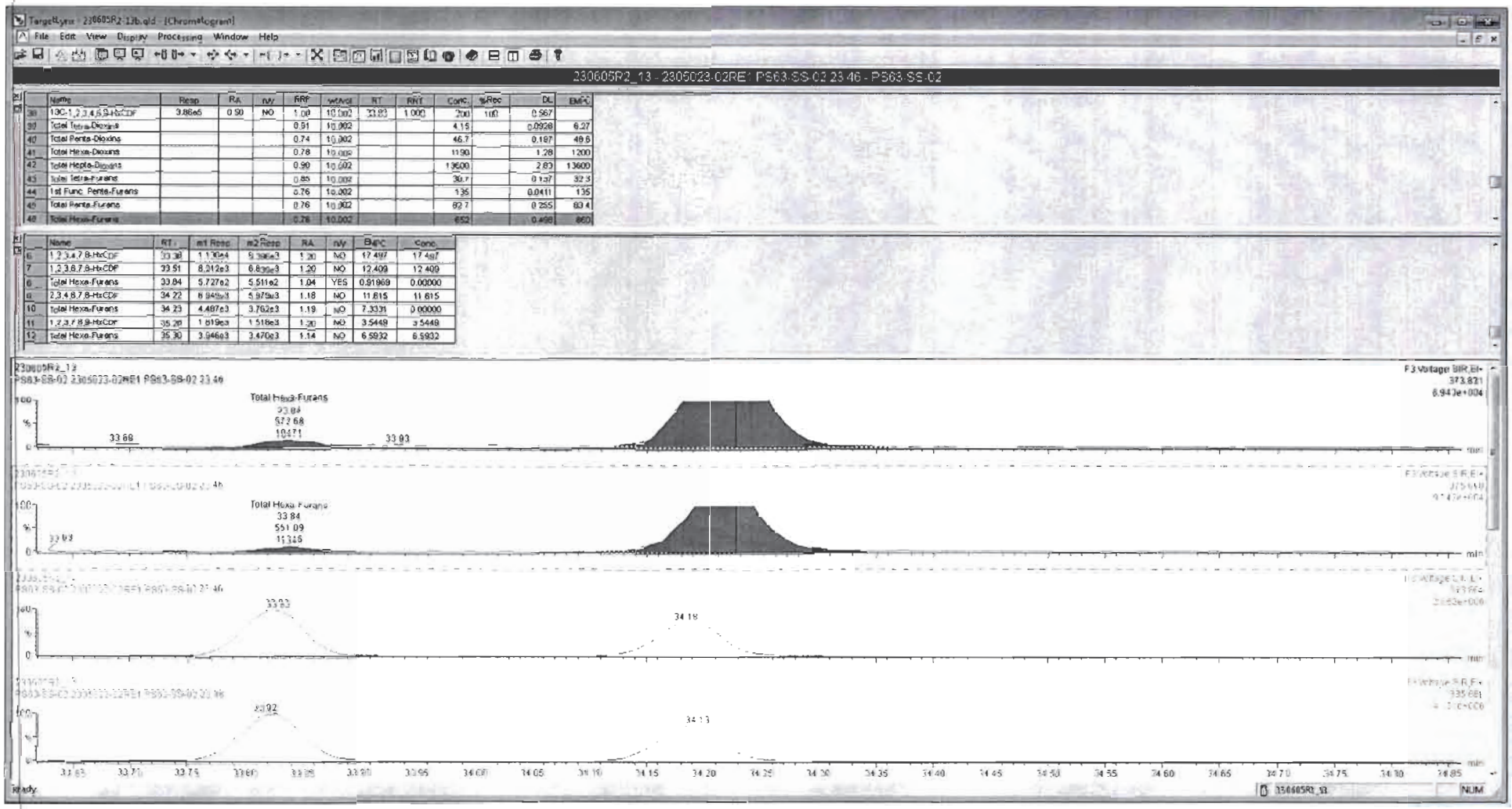


DPE3

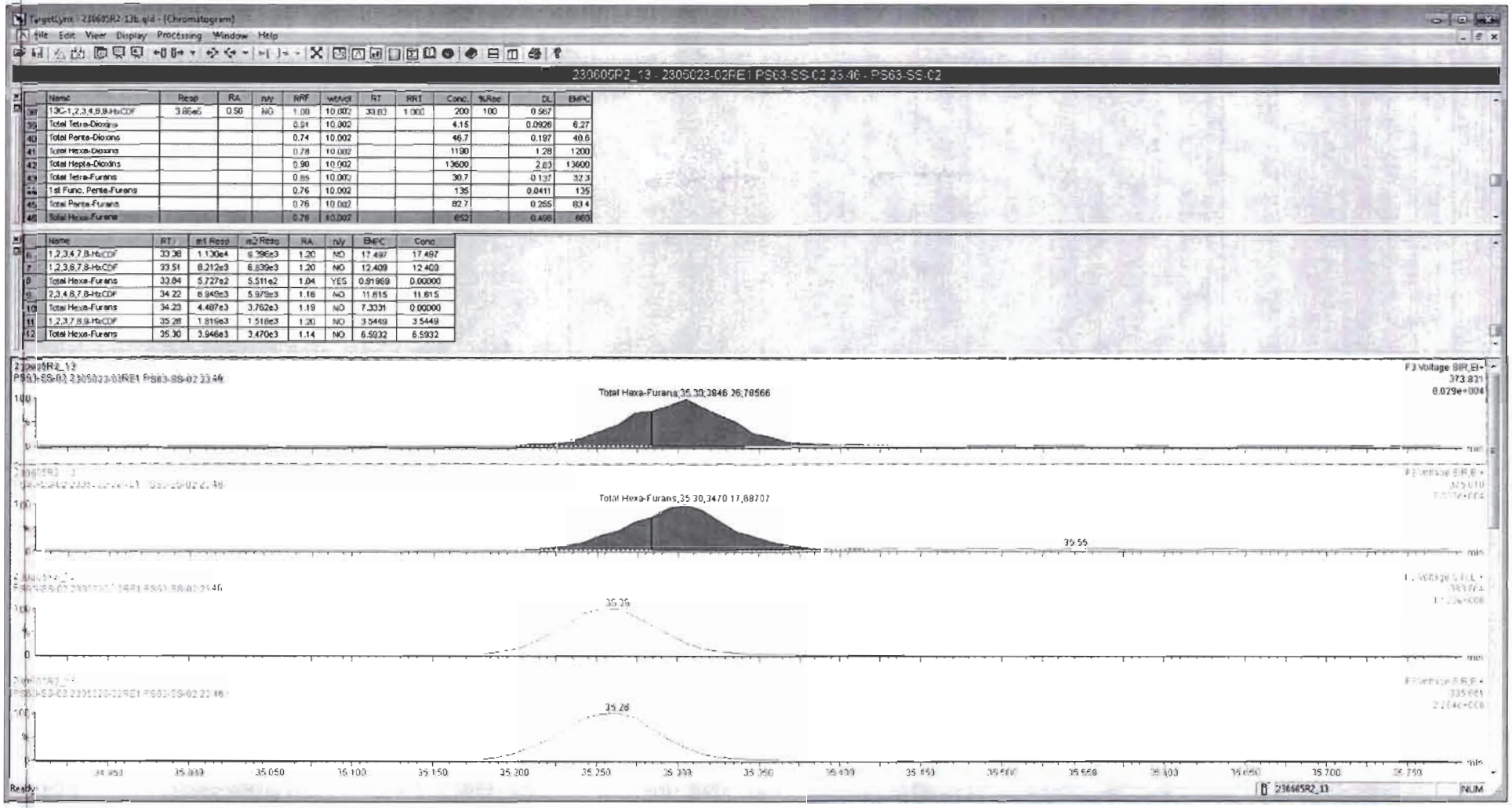



TargetLynx - 230605R2-13b.qld - [Chromatogram]
File Edit View Display Processing Window Help
230605R2_13 - 2305023-02RE1 PS63-SS-02 23:46 - PS63-SS-02
Total Hexa-Furans 32.67 1089.55 16175
Total Hexa-Furans
32.67
773.21
13535
Total Hexa-Furans 32.67 773.21 13535
Ready
230605R2_13
NUM

p


230605R2_13 - 2305023-02RE1 PS63-SS-02 23 46 - PS63-SS-02
Total Hexa-Furans
33.84
572 68
10471
33.69
33.93
Total Hexa-Furans
33.84
551 09
11345
33.93
33.92
34.18
34.13
Ready
NUM

p



	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
37	13C-1,2,3,4,6,8-HxCDF	3.86e6	0.50	NO	1.00	10.002	33.03	1.000	200	100	0.567	
39	Total Tetra-Dioxins				0.91	10.002			4.15		0.0926	6.27
40	Total Penta-Dioxins				0.74	10.002			46.7		0.197	40.6
41	Total Hexa-Dioxins				0.78	10.002			1190		1.28	1200
42	Total Hepta-Dioxins				0.90	10.002			13600		2.83	13600
43	Total Tetra-Furans				0.86	10.002			30.7		0.137	32.3
44	1st Func. Penta-Furans				0.76	10.002			135		0.0411	135
45	Total Penta-Furans				0.76	10.002			82.7		0.265	83.4
46	Total Hexa-Furans				0.78	10.002			652		0.498	660

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
6	1,2,3,4,7,8-HxCDF	33.38	1.130e4	9.396e3	1.20	NO	17.497	17.497
7	1,2,3,6,7,8-HxCDF	33.51	8.212e3	6.839e3	1.20	NO	12.409	12.409
8	Total Hexa-Furans	33.84	5.727e2	5.511e2	1.04	YES	0.91969	0.00000
9	2,3,4,6,7,8-HxCDF	34.22	6.949e3	5.979e3	1.16	NO	11.615	11.615
10	Total Hexa-Furans	34.23	4.487e3	3.762e3	1.19	NO	7.3331	0.00000
11	1,2,3,7,8,9-HxCDF	35.28	1.819e3	1.518e3	1.20	NO	3.5449	3.5449
12	Total Hexa-Furans	35.30	3.946e3	3.470e3	1.14	NO	6.5932	6.5932

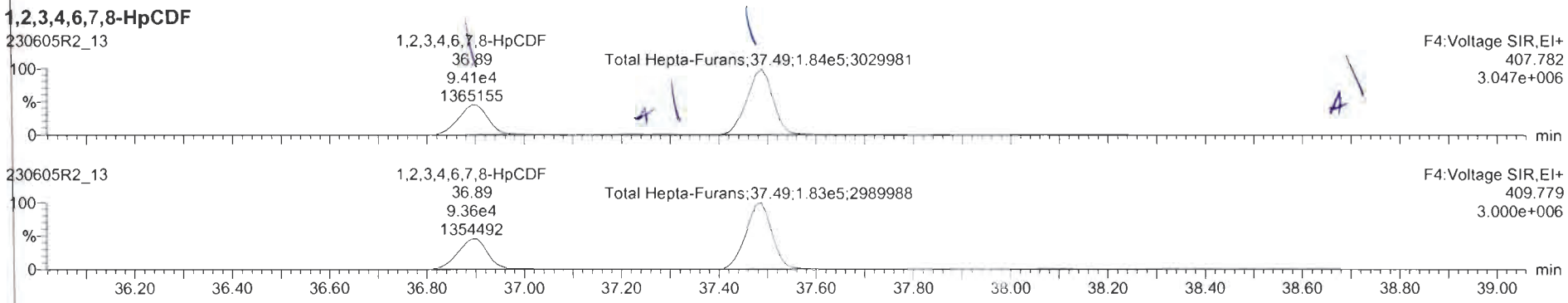
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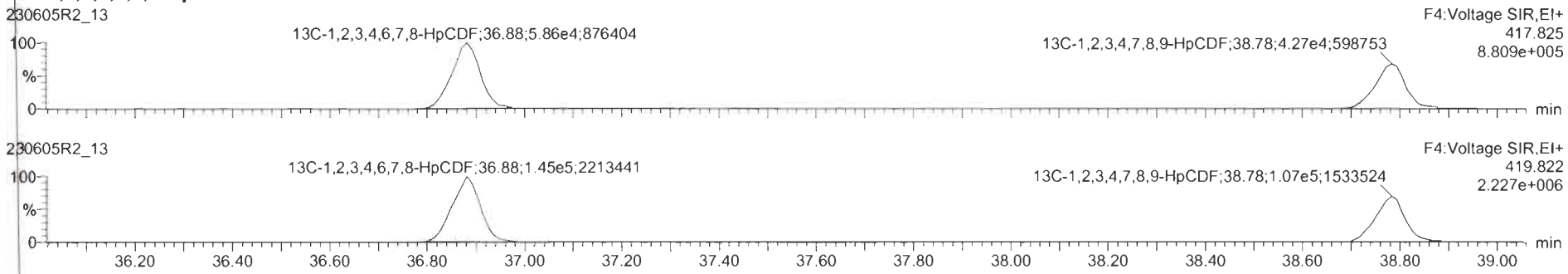
Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: **PS63-SS-02**

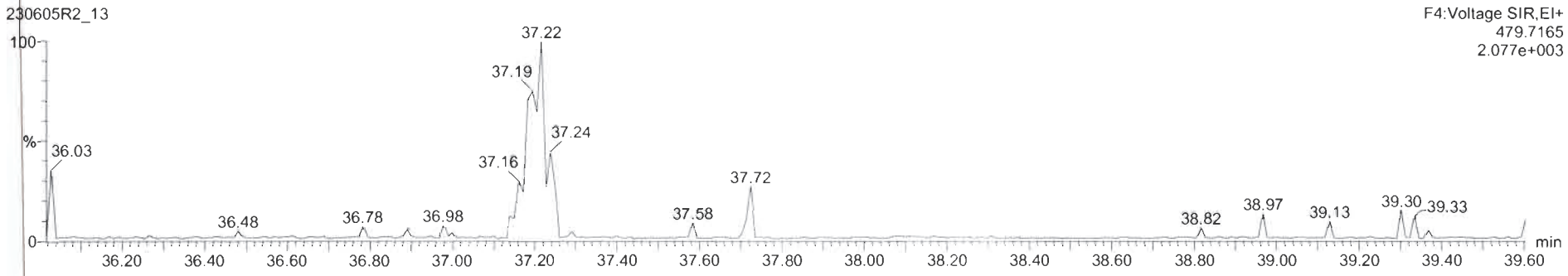
1,2,3,4,6,7,8-HpCDF

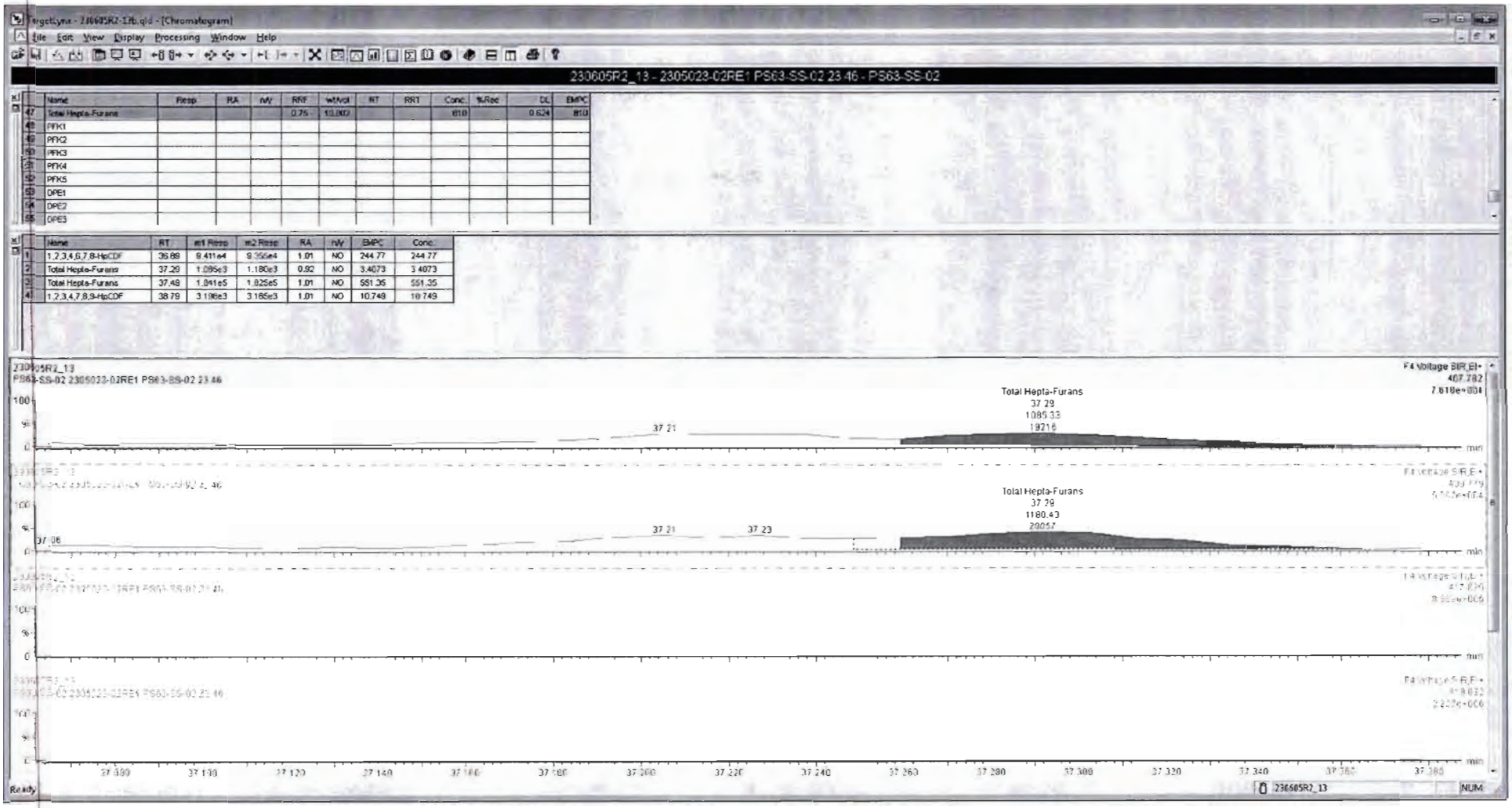


13C-1,2,3,4,6,7,8-HpCDF



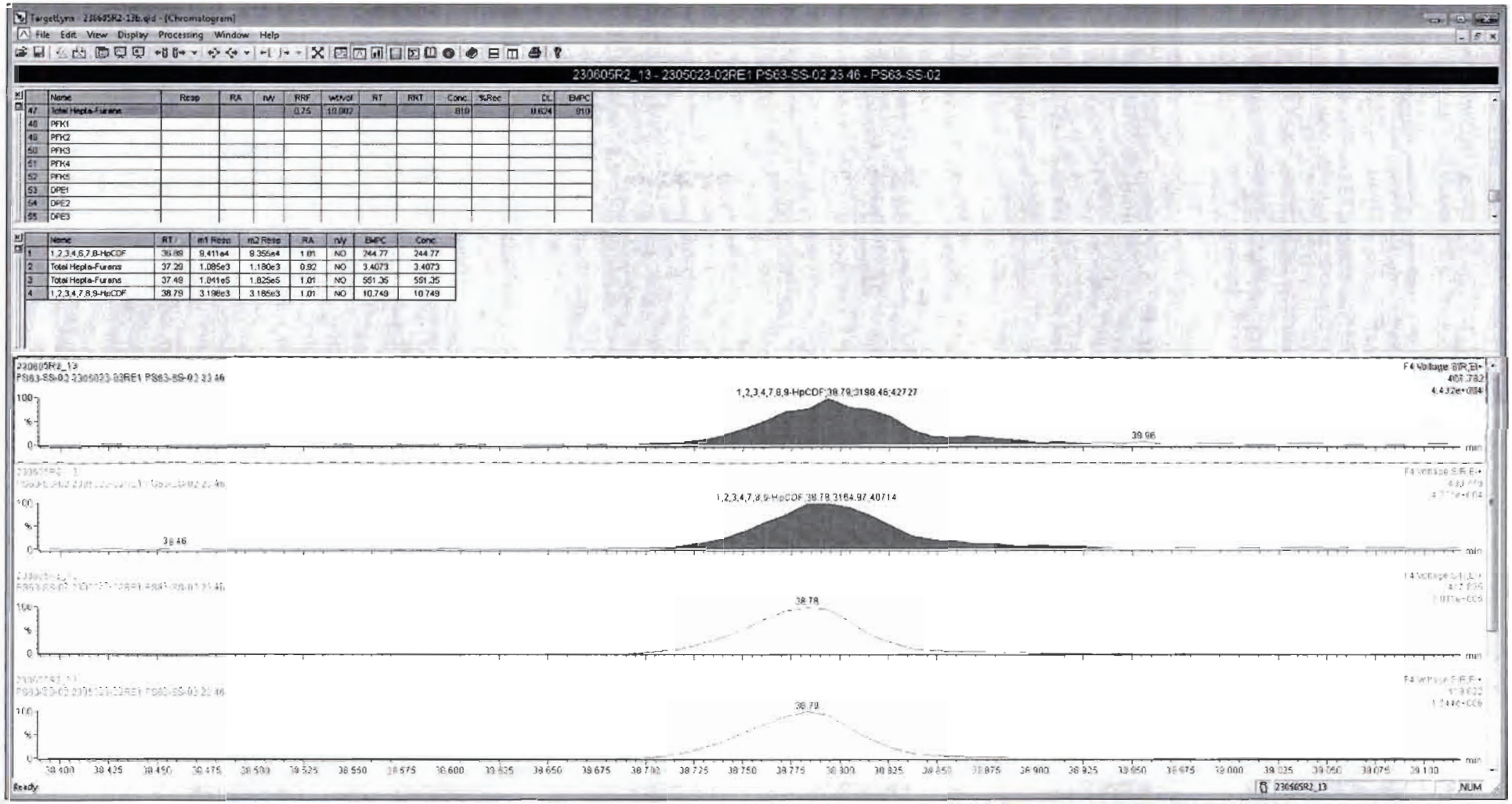
DPE4





	Name	Resp	RA	nV	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
47	Total Hepta-Furans				0.75	10.000			810		0.624	810
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											

	Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.89	9.411e4	9.356e4	1.01	NO	244.77	244.77
2	Total Hepta-Furans	37.29	1.085e3	1.180e3	0.92	NO	3.4073	3.4073
3	Total Hepta-Furans	37.48	1.841e5	1.825e5	1.01	NO	551.35	551.35
4	1,2,3,4,7,8,9-HpCDF	38.79	3.188e3	3.165e3	1.01	NO	10.749	10.749


TargetLynx - 230605R2-13b.qld - [Chromatogram]
File Edit View Display Processing Window Help
230605R2_13 - 2305023-02RE1 PS63-SS-02 23:46 - PS63-SS-02
Name Resp RA nV RRF wt/vol RT RRT Conc. %Rec DL EMPC
47 Total Hepta-Furans 0.75 10.002 819 0.624 819
48 PFK1
49 PFK2
50 PFK3
51 PFK4
52 PFK5
53 DPE1
54 DPE2
55 DPE3
Name RT m1 Resp m2 Resp RA nV EMPC Conc.
1 1,2,3,4,6,7,8-HpCDF 36.89 9.411e4 9.355e4 1.01 NO 244.77 244.77
2 Total Hepta-Furans 37.29 1.085e3 1.180e3 0.92 NO 3.4073 3.4073
3 Total Hepta-Furans 37.49 1.841e5 1.825e5 1.01 NO 551.35 551.35
4 1,2,3,4,7,8,9-HpCDF 38.79 3.198e3 3.185e3 1.01 NO 10.749 10.749
1,2,3,4,7,8,9-HpCDF 38.79 3198.46 42727
39.96
1,2,3,4,7,8,9-HpCDF 38.78 3164.97 40714
39.46
38.78
38.79
Ready
230605R2_13
NUM

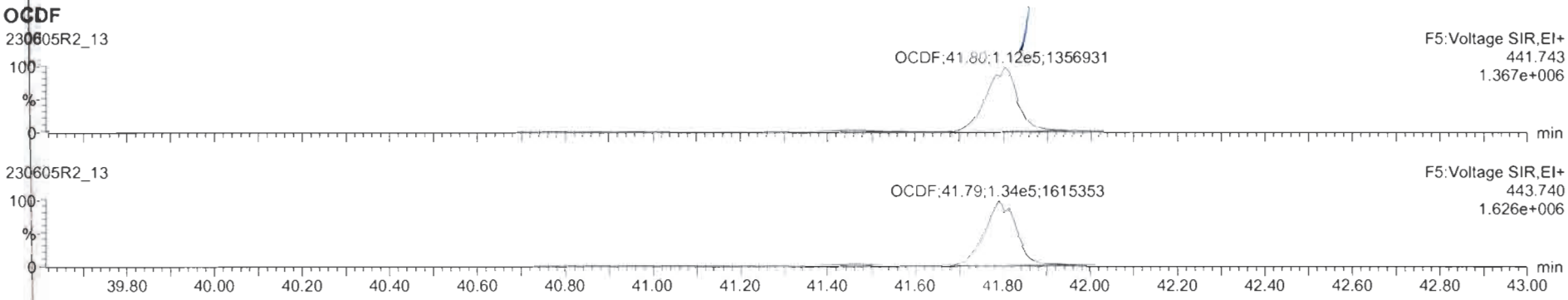
Enthalpy Analytical EDH VG-12

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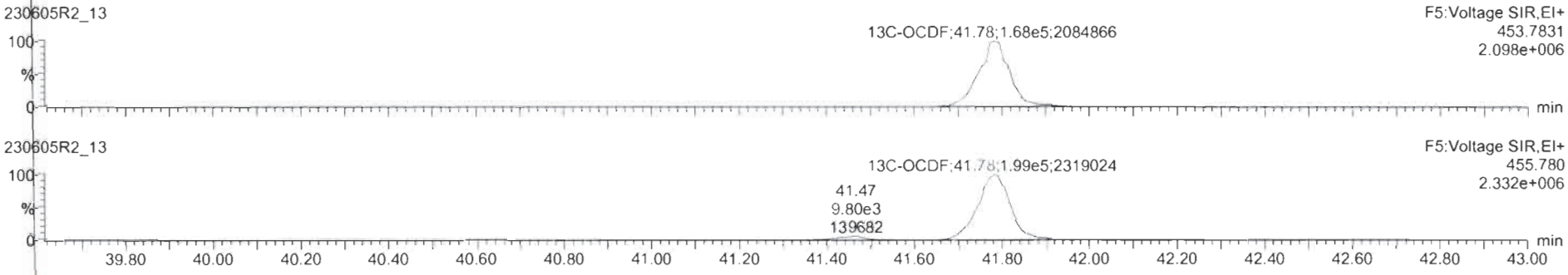
Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02

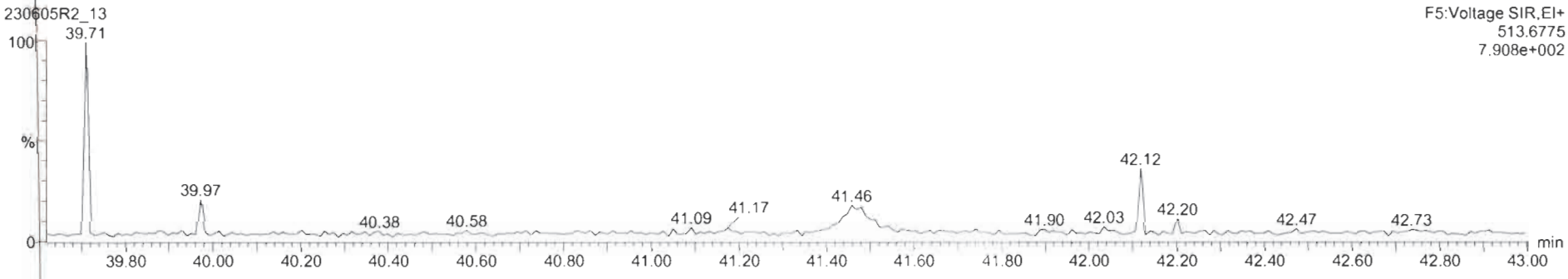
OCDF



13C-OCDF



DPE5

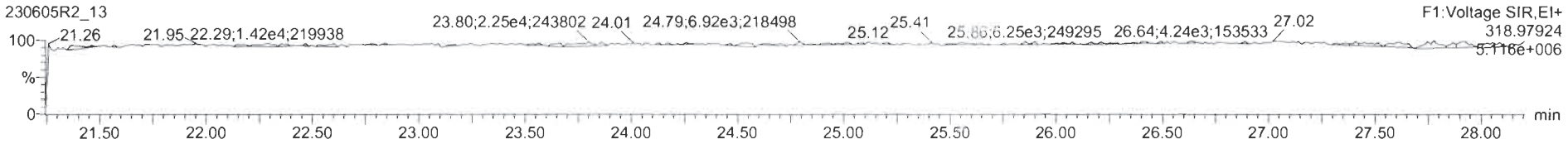


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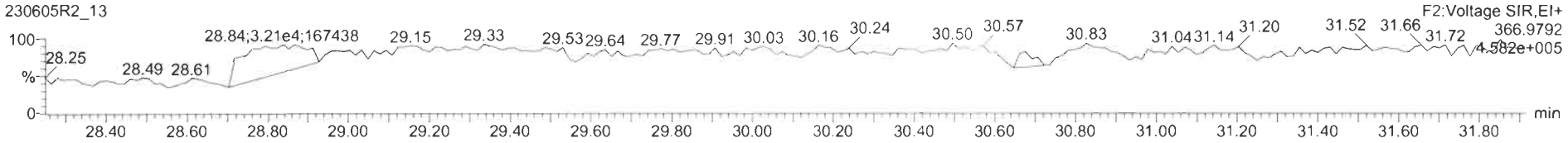
Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

Name: 230605R2_13, Date: 06-Jun-2023, Time: 09:00:22, ID: 2305023-02RE1 PS63-SS-02 23.46, Description: PS63-SS-02

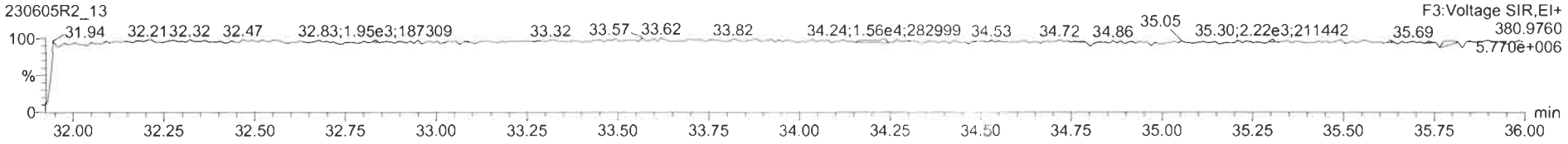
PFK1



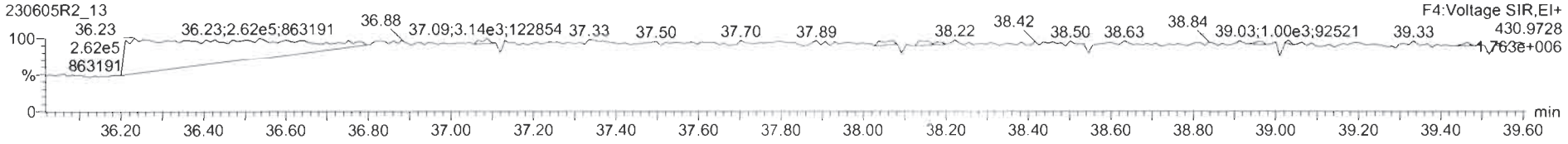
PFK2



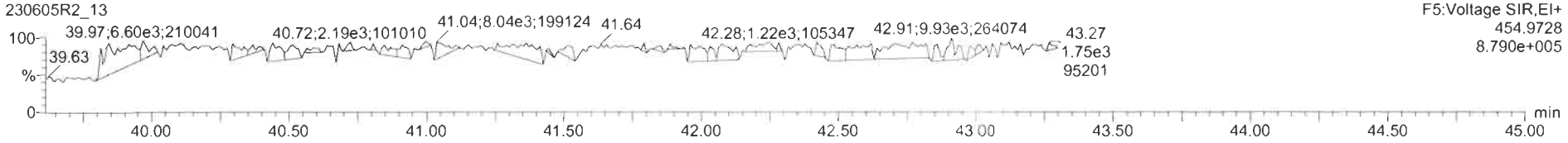
PFK3



PFK4



PFK5



Vista Analytical Laboratory VG-12

Dataset: I:\VG12.PRO\Results\230605R3\230605R3-11.qld

Last Altered: Wednesday, June 07, 2023 8:23:16 AM Pacific Daylight Time
Printed: Thursday, June 08, 2023 11:53:37 AM Pacific Daylight Time

& 06/09/23

HAC 6.8.2023

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R3_11, Date: 06-Jun-2023, Time: 20:01:16, ID: 2305023-02RE1@10X PS63-SS-02 23.46, Description: PS63-SS-02, Task: ST230605R3_1

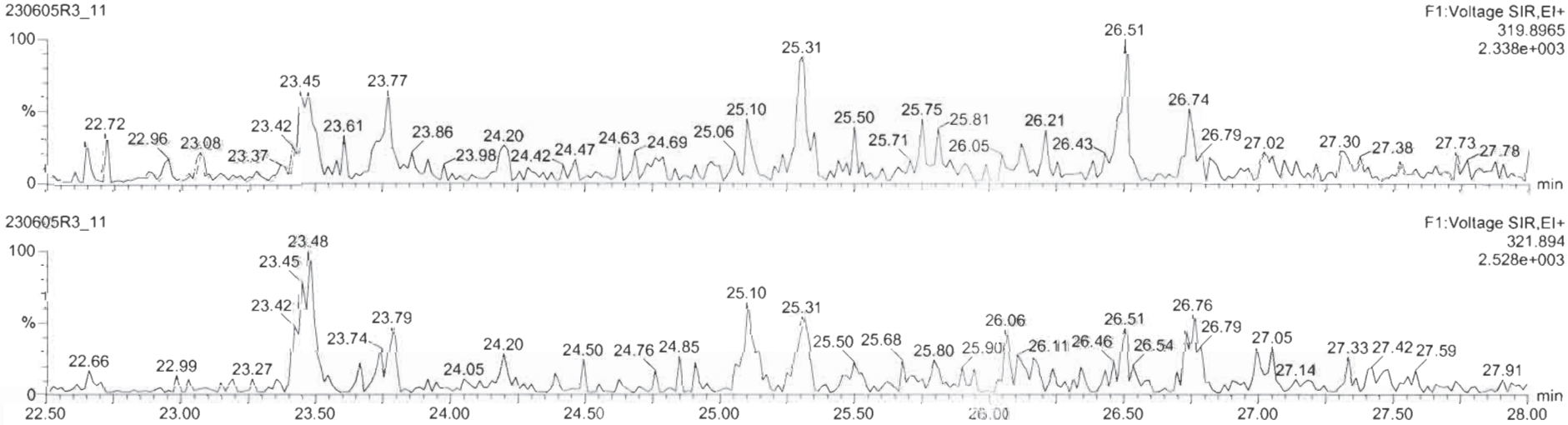
	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	1,2,3,4,6,7,8-HpCDD	3.16e5	1.01	NO	0.903	10.002	38.09	1.001	5602.2		18.5	5600
2	OCDD	1.78e6	0.87	NO	0.782	10.002	41.44	1.000	43066		27.2	43100
3	13C-1,2,3,4,6,7,8-HpCDD	1.25e4	1.03	NO	0.611	10.002	38.07	1.126	150.97	75.5	2.76	
4	13C-OCDD	2.11e4	0.77	NO	0.545	10.002	41.44	1.225	285.80	71.5	2.49	
5	13C-1,2,3,4,6,9-HxCDF	2.71e4	0.46	NO	1.00	10.002	33.82	1.000	199.95	100	3.46	

Dataset: Untitled

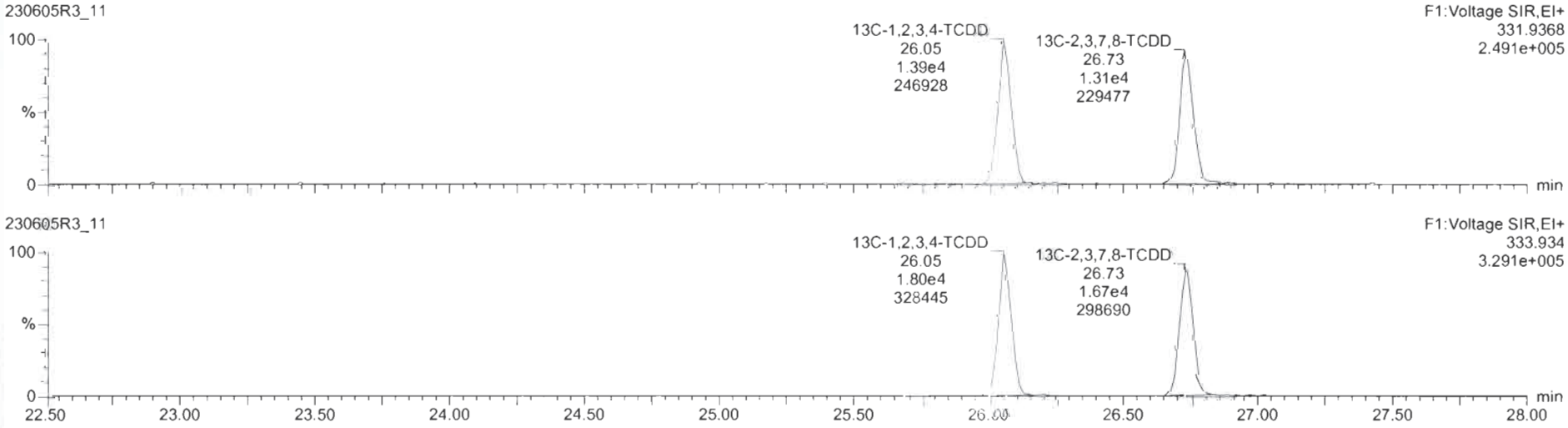
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Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Name: 230605R3_11, Date: 06-Jun-2023, Time: 20:01:16, ID: 2305023-02RE1@10X PS63-SS-02 23.46, Description: **PS63-SS-02**

2,3,7,8-TCDD



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



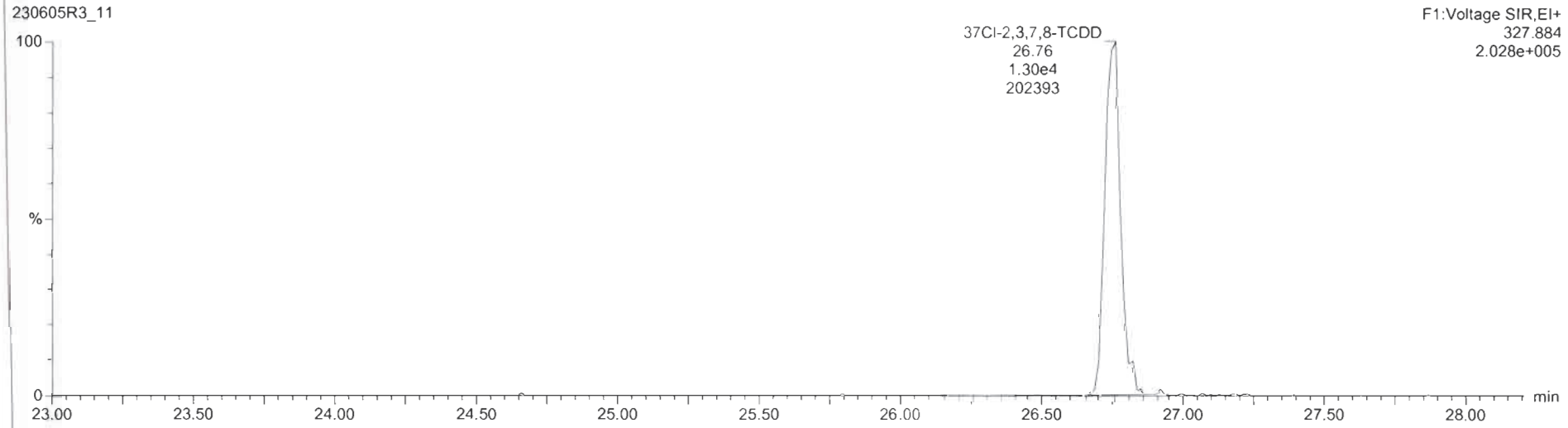
Enthalpy Analytical EDH VG-12

Dataset: Untitled

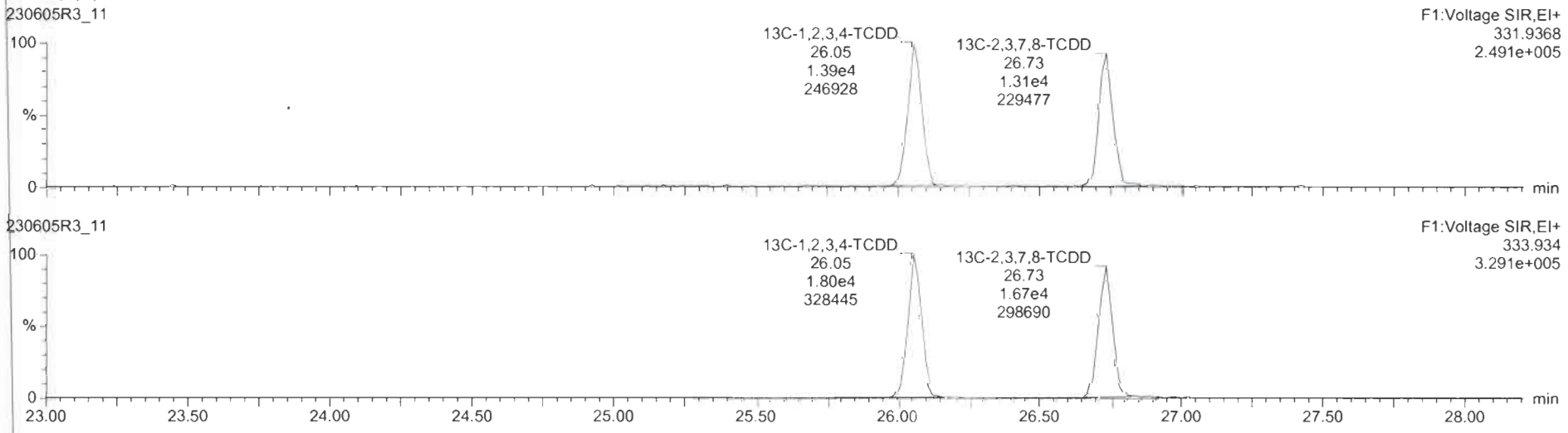
Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Name: 230605R3_11, Date: 06-Jun-2023, Time: 20:01:16, ID: 2305023-02RE1@10X PS63-SS-02 23.46, Description: **PS63-SS-02**

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



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

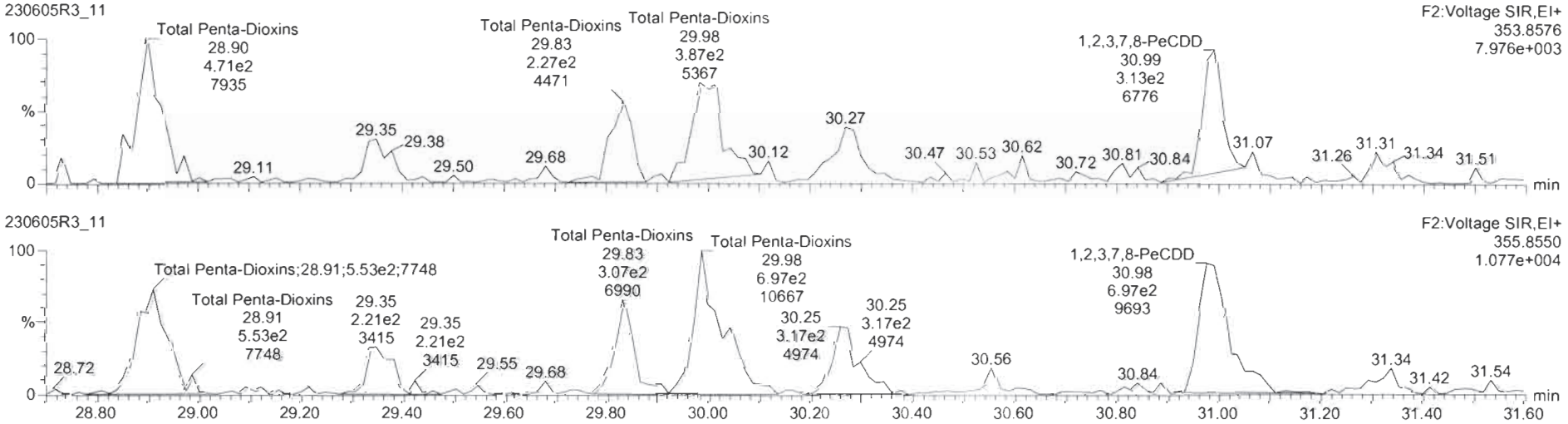


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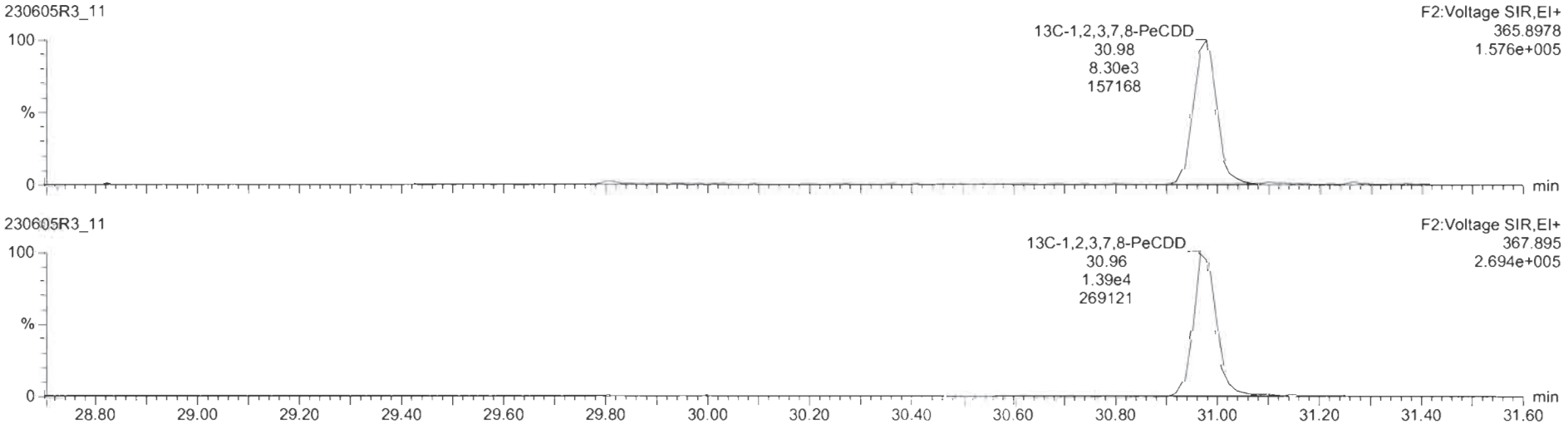
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Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Name: 230605R3_11, Date: 06-Jun-2023, Time: 20:01:16, ID: 2305023-02RE1@10X PS63-SS-02 23.46, Description: **PS63-SS-02**

1,2,3,7,8-PeCDD



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

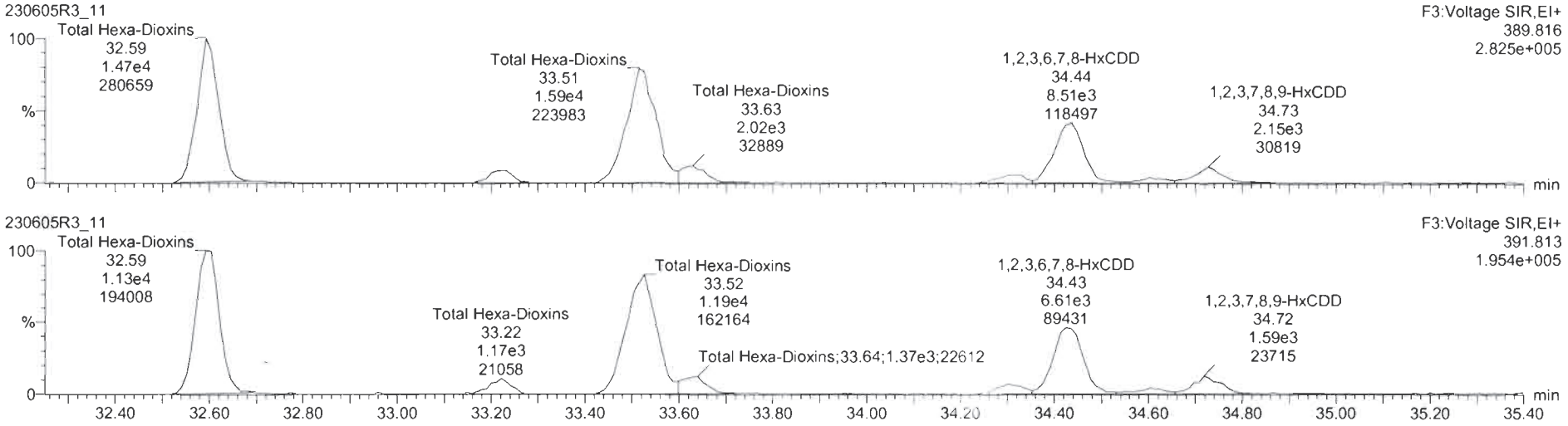


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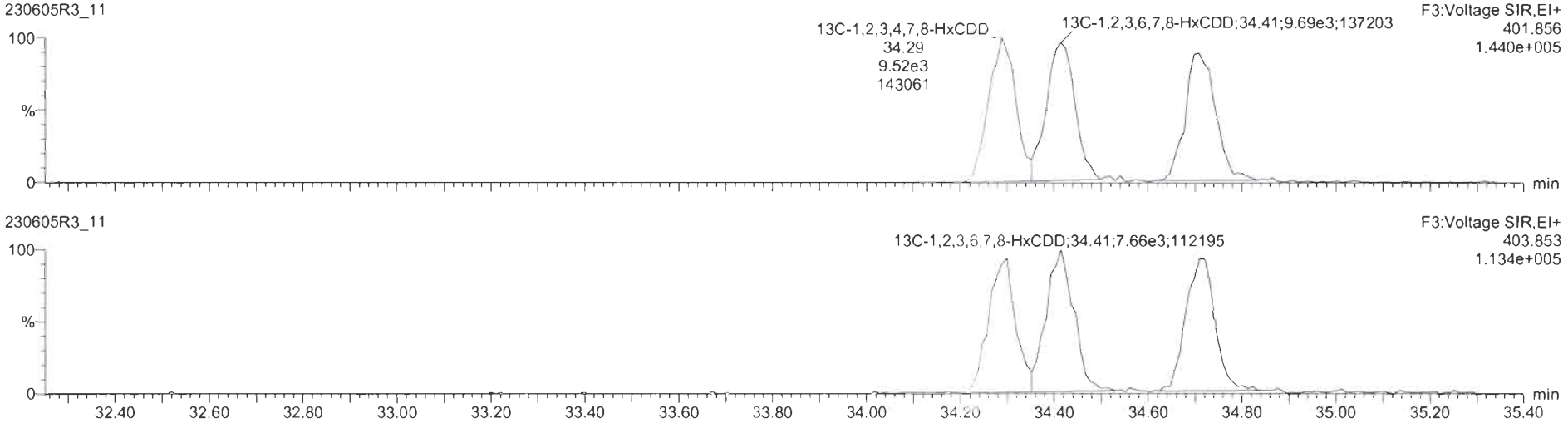
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Name: 230605R3_11, Date: 06-Jun-2023, Time: 20:01:16, ID: 2305023-02RE1@10X PS63-SS-02 23.46, Description: PS63-SS-02

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



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

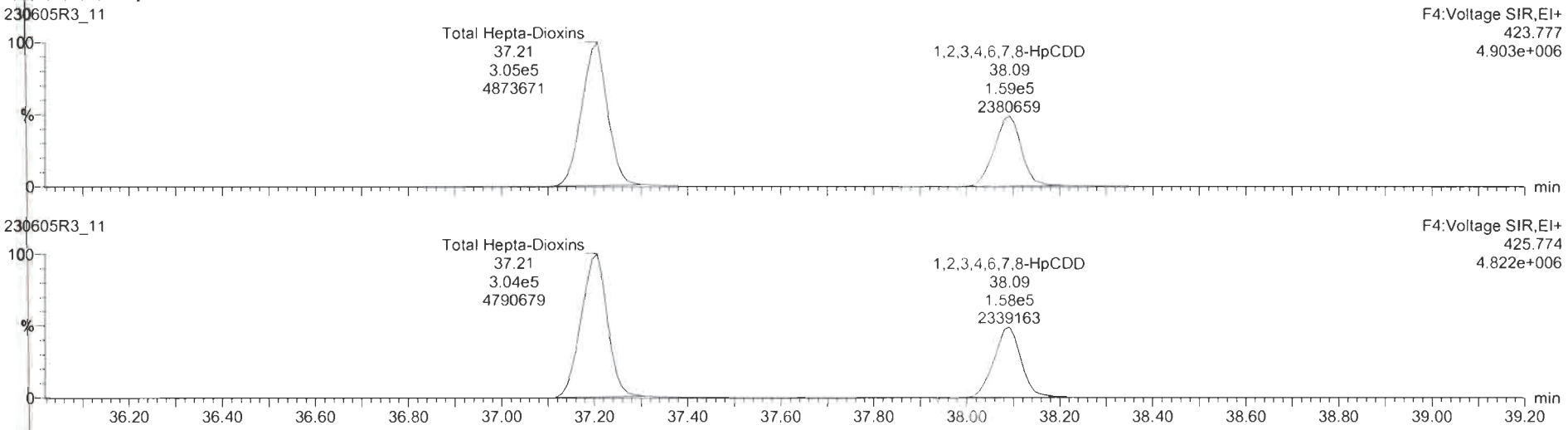


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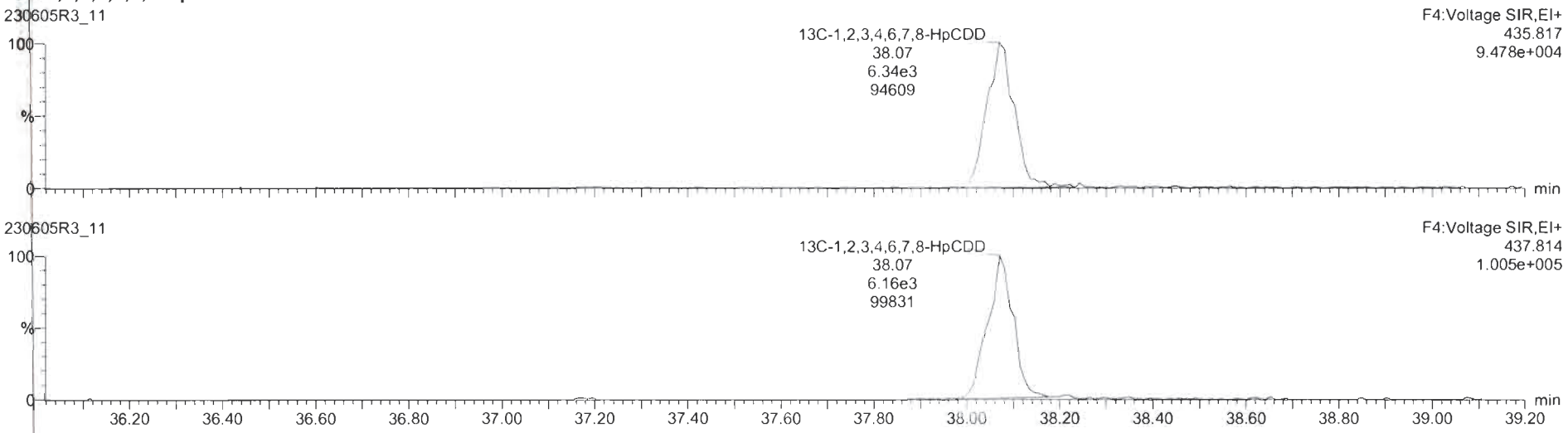
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Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Name: 230605R3_11, Date: 06-Jun-2023, Time: 20:01:16, ID: 2305023-02RE1@10X PS63-SS-02 23.46, Description: PS63-SS-02

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



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

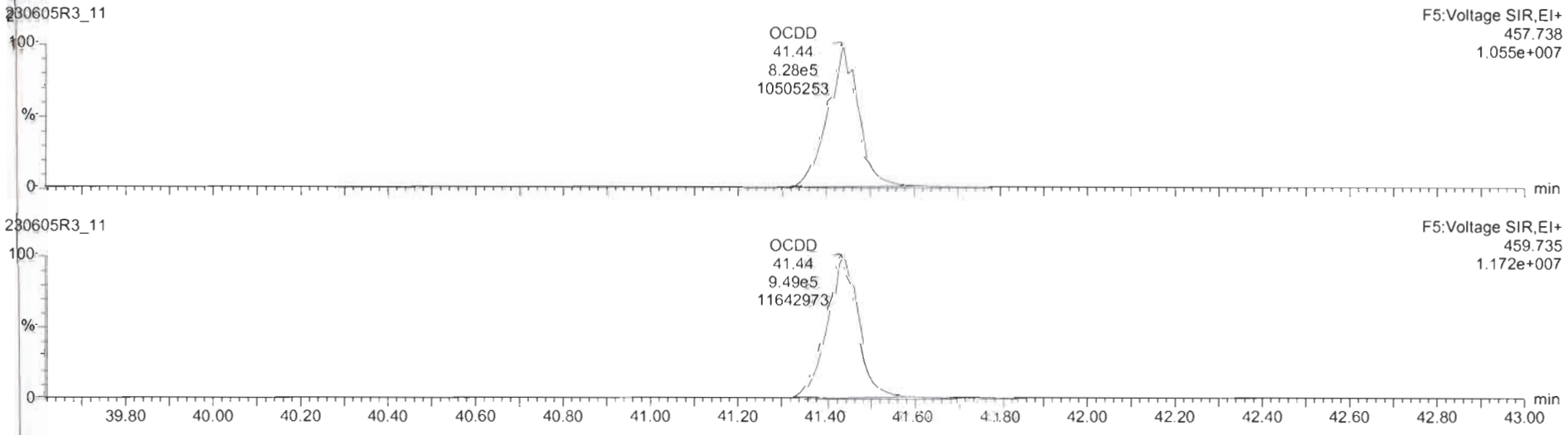


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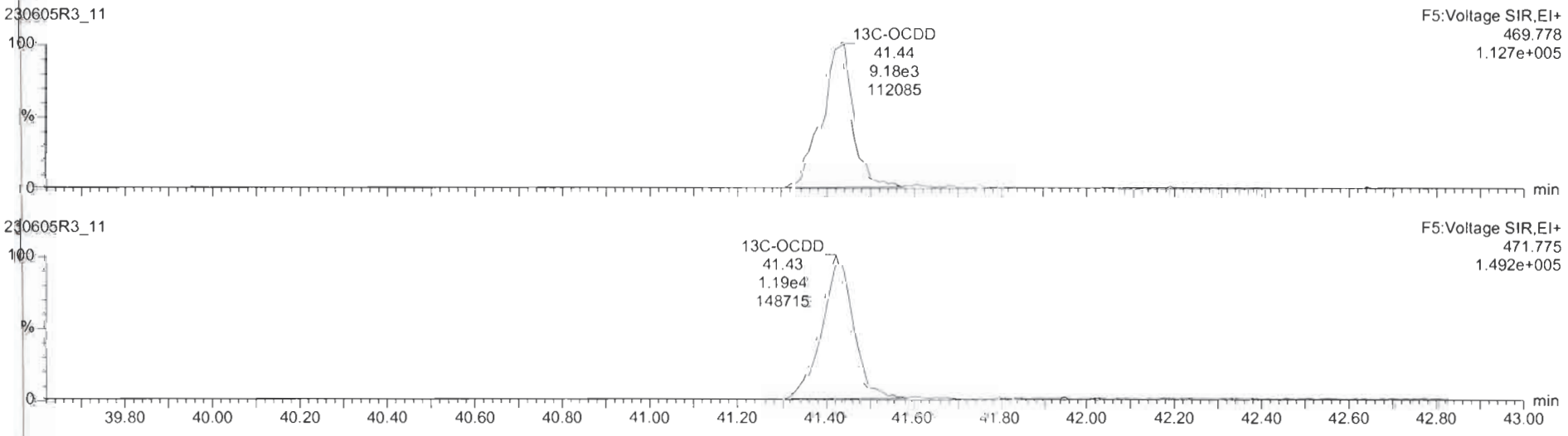
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Name: 230605R3_11, Date: 06-Jun-2023, Time: 20:01:16, ID: 2305023-02RE1@10X PS63-SS-02 23.46, Description: PS63-SS-02

OCDD



13C-OCDD

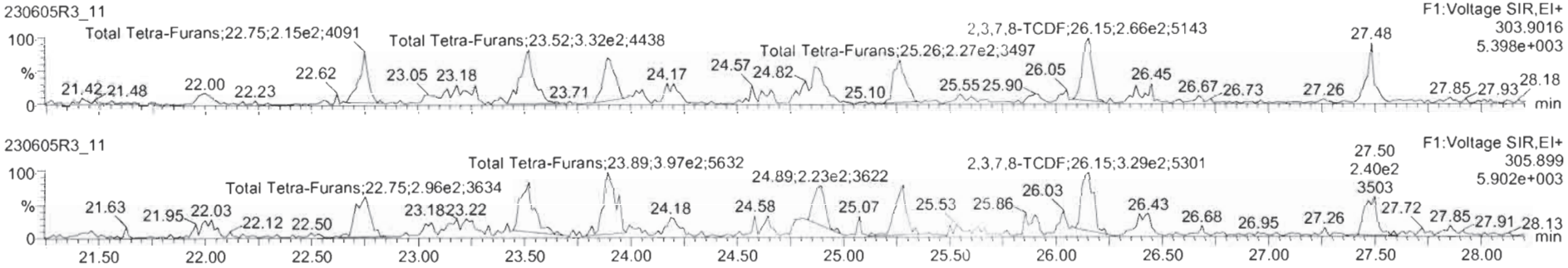


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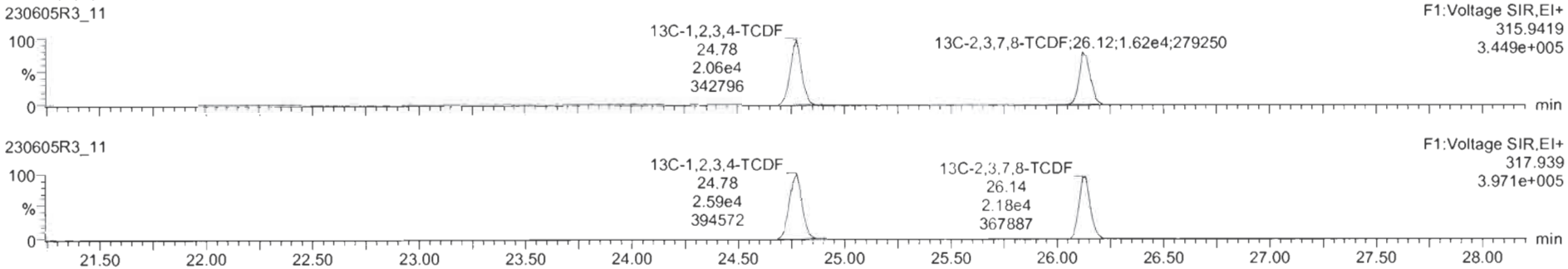
Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Name: 230605R3_11, Date: 06-Jun-2023, Time: 20:01:16, ID: 2305023-02RE1@10X PS63-SS-02 23.46, Description: PS63-SS-02

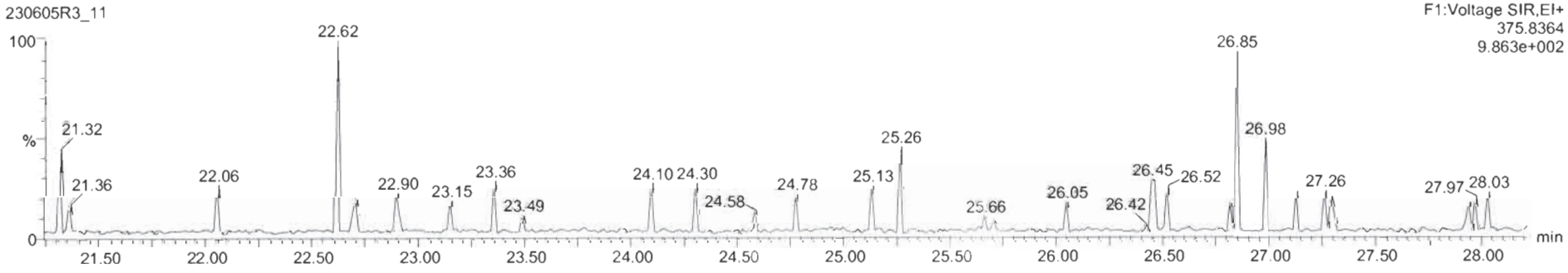
2,3,7,8-TCDF



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



DPE1

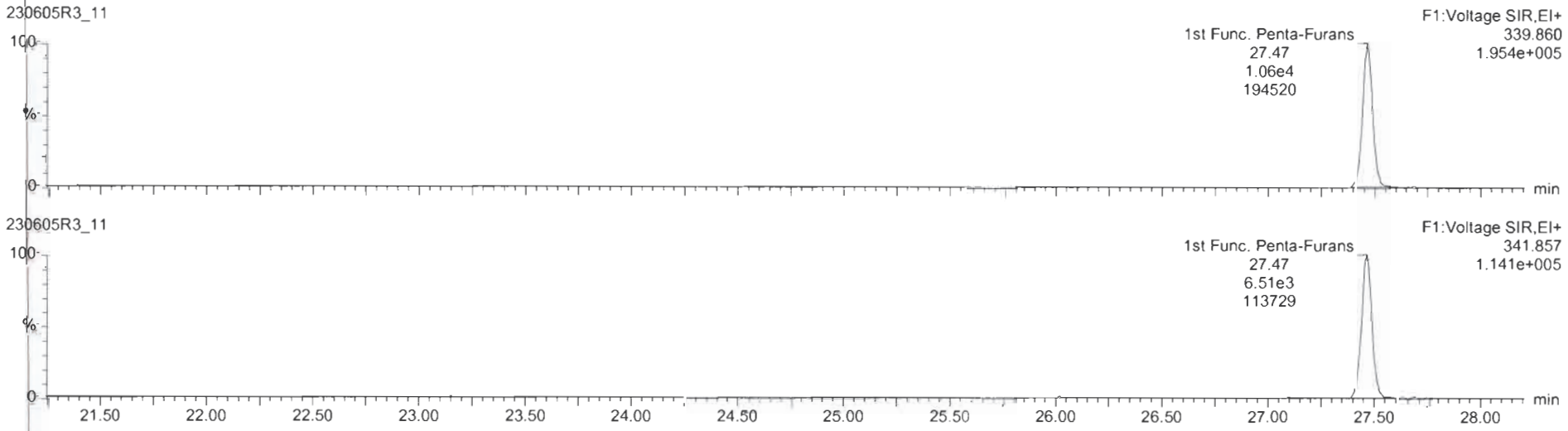


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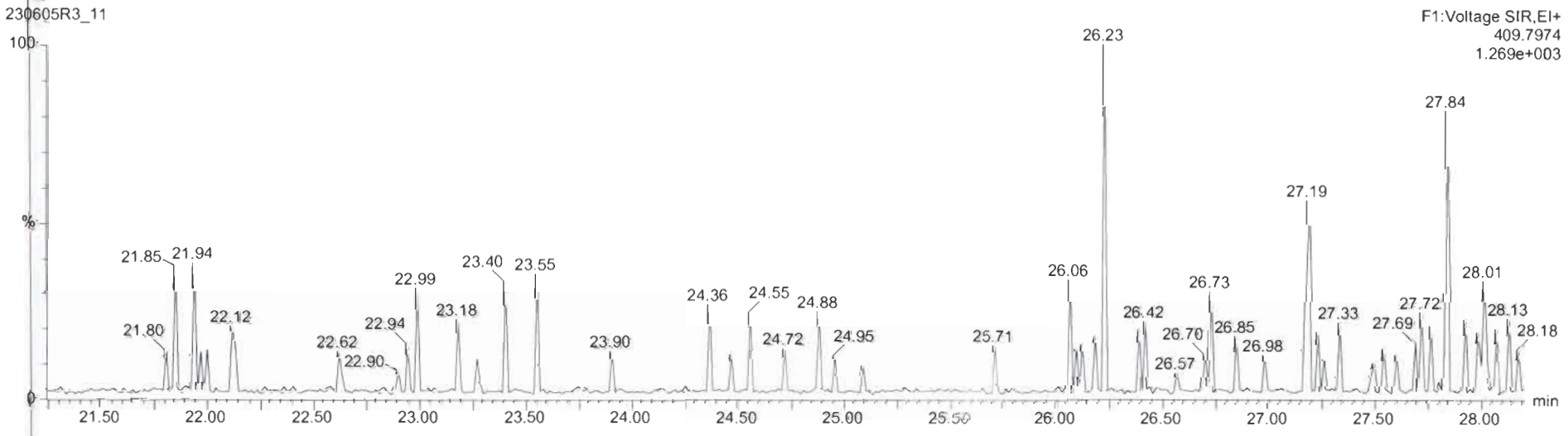
Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Name: 230605R3_11, Date: 06-Jun-2023, Time: 20:01:16, ID: 2305023-02RE1@10X PS63-SS-02 23.46, Description: PS63-SS-02

1st Func. Penta-Furans



DPE6

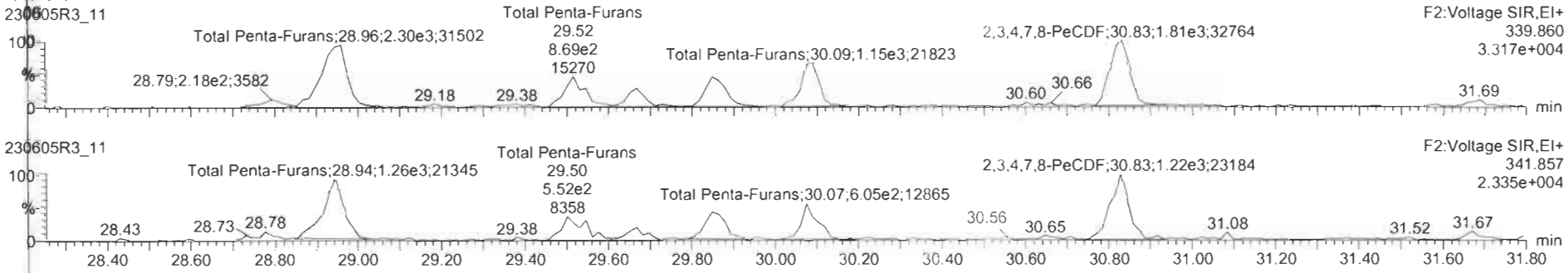


Dataset: Untitled

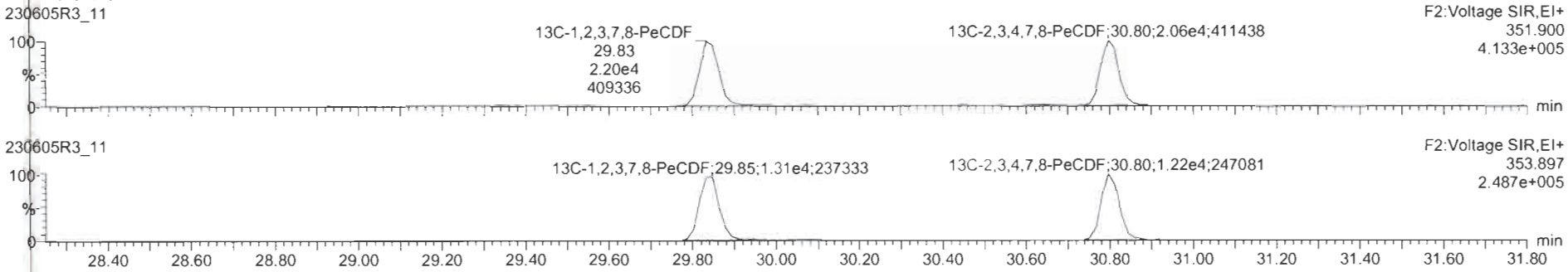
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Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

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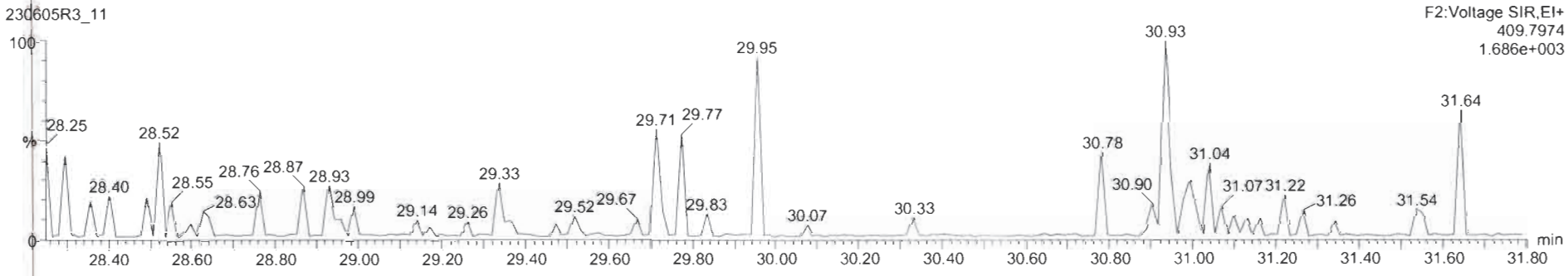
1,2,3,7,8-PeCDF



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



DPE2

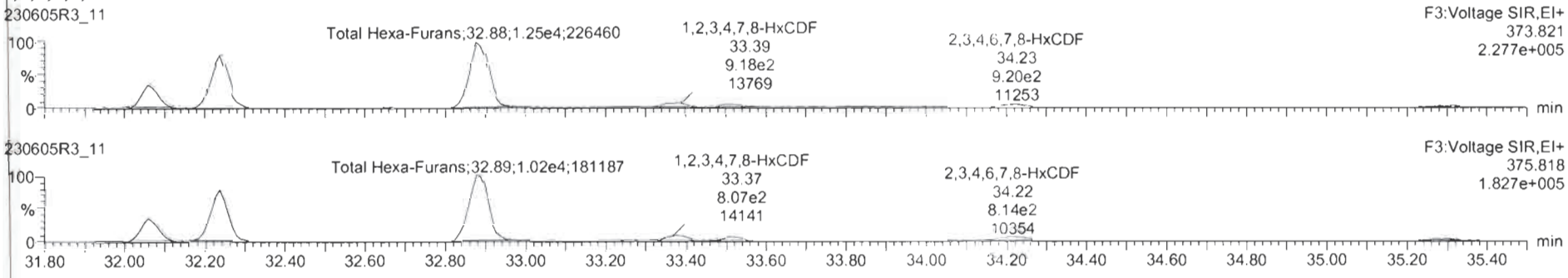


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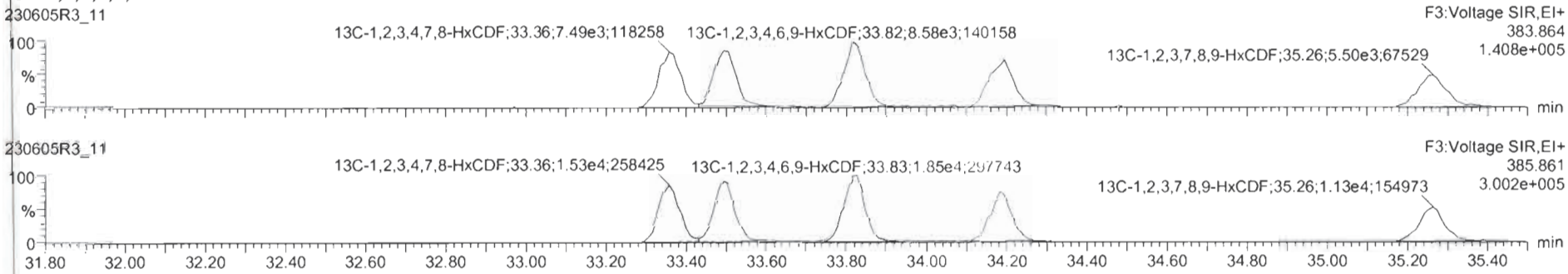
Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

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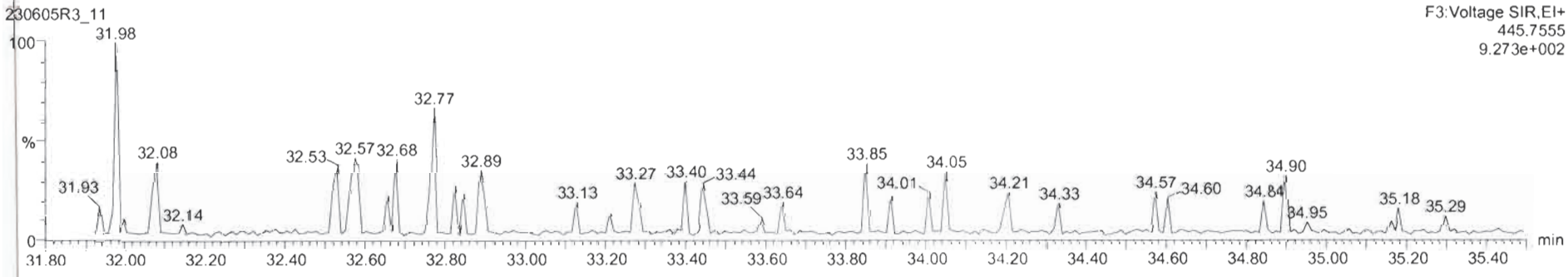
1,2,3,4,7,8-HxCDF



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



DPE3

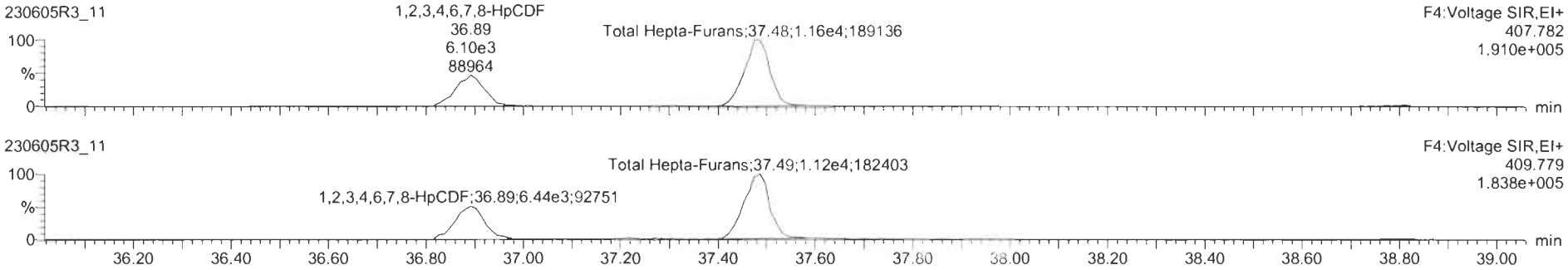


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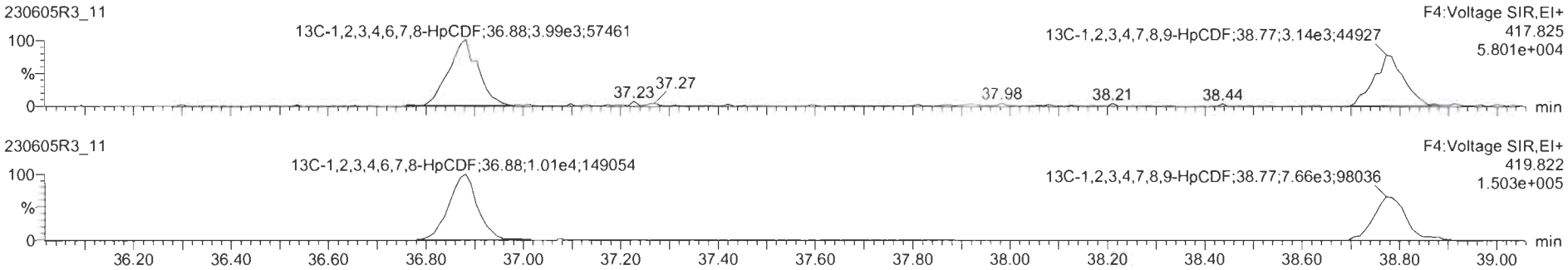
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Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

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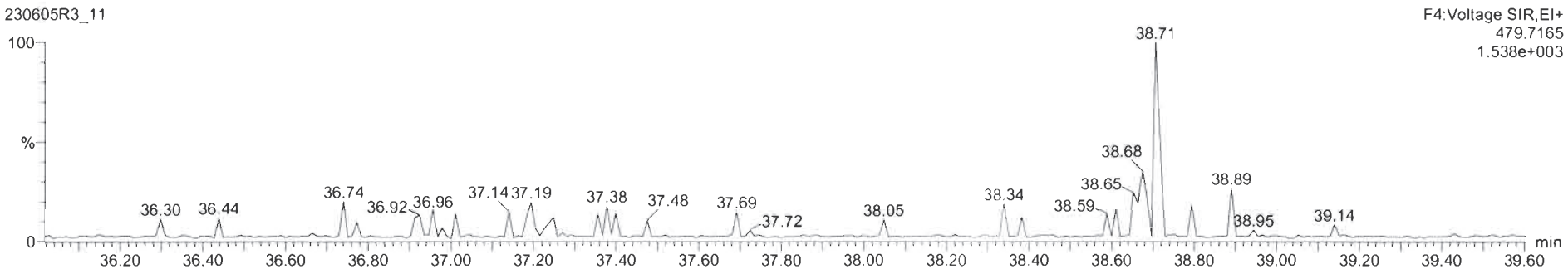
1,2,3,4,6,7,8-HpCDF



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



DPE4

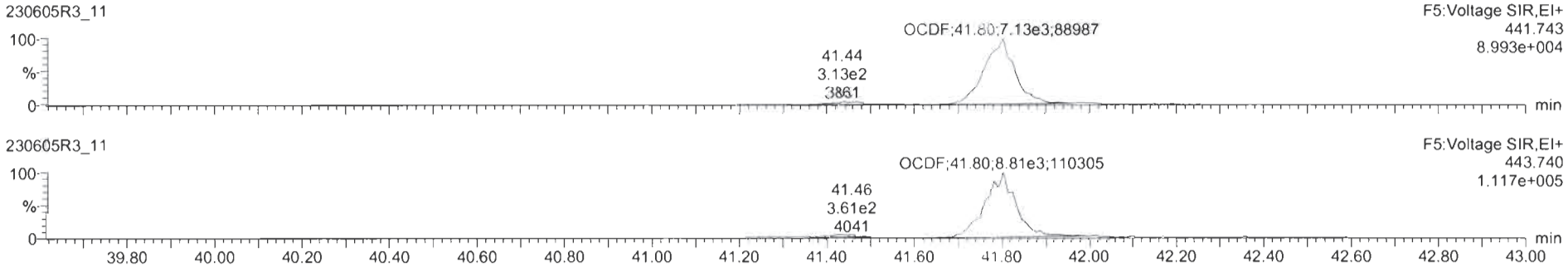


Dataset: Untitled

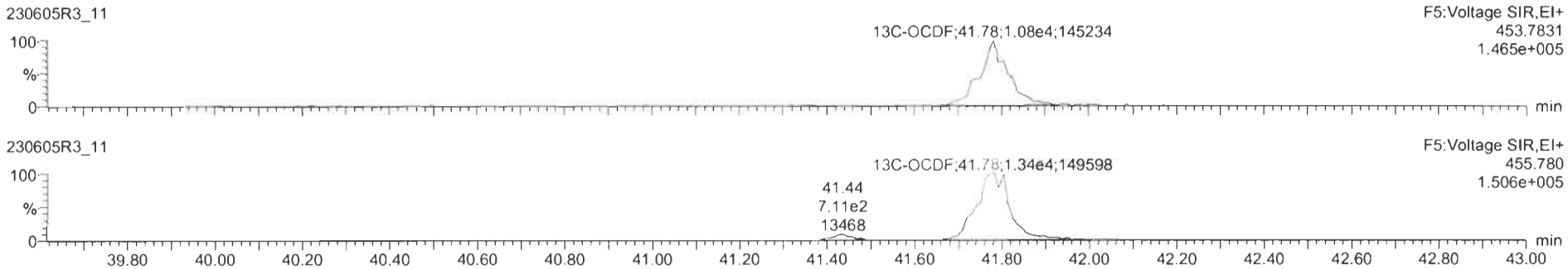
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Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

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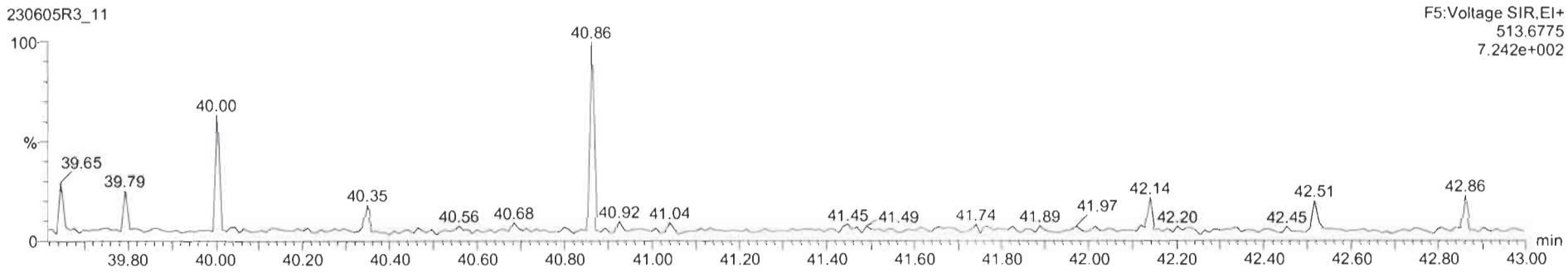
OCDF



13C-OCDF



DPE5

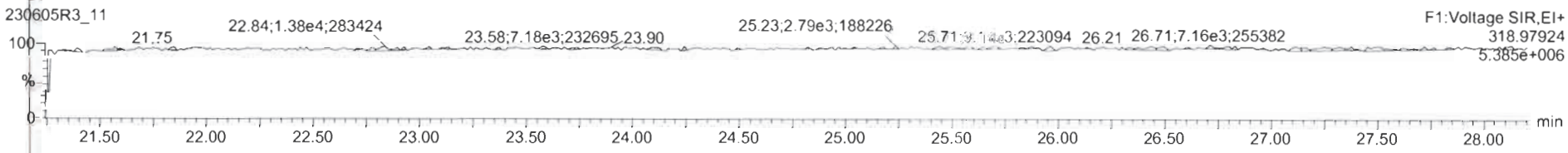


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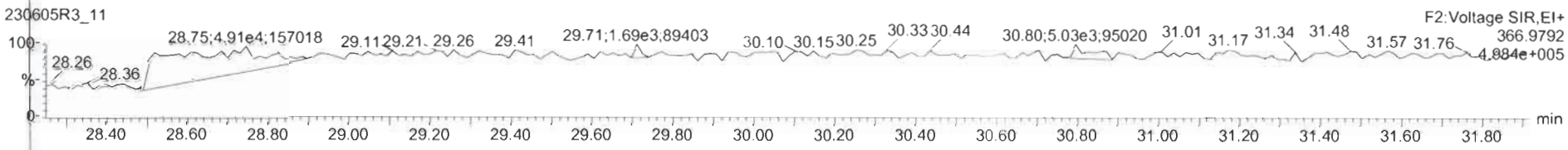
Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

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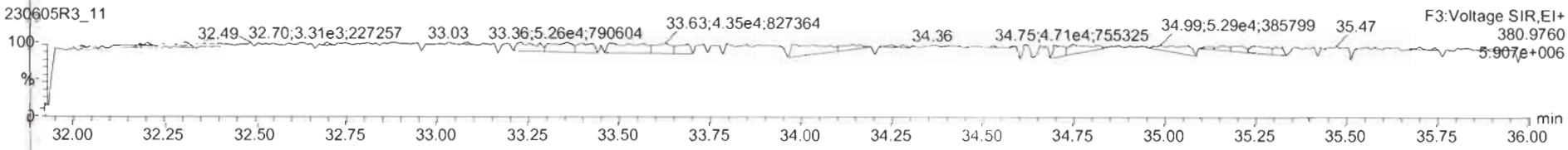
PFK1



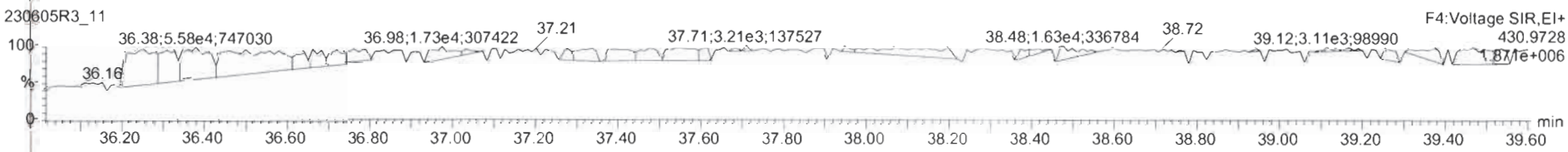
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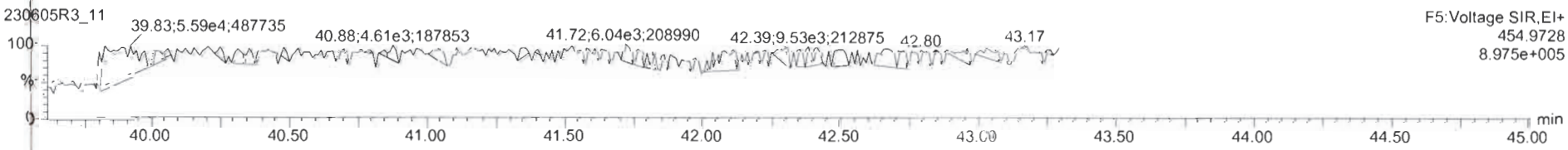
PFK3



PFK4



PFK5



Enthalpy Analytical EDH- VG-11

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-10.qld

Last Altered: Monday, June 12, 2023 4:12:14 PM Pacific Daylight Time
Printed: Monday, June 12, 2023 4:12:31 PM Pacific Daylight Time

fg 06/13/23
DF 06/12/23
YE SEE DIL

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03, Task: ST230611R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.28e3	0.71	NO	0.906	10.012	26.76	1.001	2.3948		0.121	2.39
2	1,2,3,7,8-PeCDD	3.12e4	0.57	NO	0.745	10.012	30.99	1.000	32.182		2.56	32.2
3	1,2,3,4,7,8-HxCDD	5.69e4	1.25	NO	0.837	10.012	34.30	1.000	79.052		2.59	79.1
4	1,2,3,6,7,8-HxCDD	5.34e5	1.26	NO	0.782	10.012	34.43	1.000	678.76		2.70	679
5	1,2,3,7,8,9-HxCDD	1.31e5	1.25	NO	0.780	10.012	34.73	1.001	187.02		3.10	187
6	1,2,3,4,6,7,8-HpCDD	9.65e6	1.00	NO	0.903	10.012	38.09	1.000	13528 YE		5.50	13500
7	OCDD	5.98e7	0.90	NO	0.782	10.012	41.49	1.001	101310 YE		6.41	101000
8	2,3,7,8-TCDF	1.66e4	0.76	NO	0.852	10.012	26.15	1.001	11.491		0.416	11.5
9	1,2,3,7,8-PeCDF	4.25e4	1.62	NO	0.758	10.012	29.86	1.001	31.246		0.601	31.2
10	2,3,4,7,8-PeCDF	1.02e5	1.61	NO	0.834	10.012	30.83	1.001	68.739		0.524	68.7
11	1,2,3,4,7,8-HxCDF	5.64e4	1.21	NO	0.762	10.012	33.37	1.000	72.276		1.31	72.3
12	1,2,3,6,7,8-HxCDF	4.35e4	1.21	NO	0.726	10.012	33.51	1.000	49.865		1.30	49.9
13	2,3,4,6,7,8-HxCDF	4.43e4	1.22	NO	0.756	10.012	34.22	1.001	62.247		1.55	62.2
14	1,2,3,7,8,9-HxCDF	2.01e4	1.21	NO	0.749	10.012	35.30	1.001	33.624		2.41	33.6
15	1,2,3,4,6,7,8-HpCDF	5.10e5	0.99	NO	0.754	10.012	36.89	1.000	1018.0		2.51	1020
16	1,2,3,4,7,8,9-HpCDF	1.83e4	0.98	NO	0.792	10.012	38.79	1.000	47.607		3.24	47.6
17	OCDF	8.64e5	0.83	NO	0.669	10.012	41.80	1.000	1725.8		2.29	1730
18	13C-2,3,7,8-TCDD	3.02e5	0.76	NO	1.13	10.012	26.73	1.026	174.12	87.2	0.304	
19	13C-1,2,3,7,8-PeCDD	2.60e5	0.61	NO	0.869	10.012	30.98	1.189	193.89	97.1	0.436	
20	13C-1,2,3,4,7,8-HxCDD	1.72e5	1.26	NO	0.746	10.012	34.29	1.014	178.46	89.3	1.19	
21	13C-1,2,3,6,7,8-HxCDD	2.01e5	1.23	NO	0.803	10.012	34.42	1.017	193.84	97.0	1.11	
22	13C-1,2,3,7,8,9-HxCDD	1.80e5	1.23	NO	0.817	10.012	34.71	1.026	170.43	85.3	1.09	
23	13C-1,2,3,4,6,7,8-HpCDD	1.58e5	1.04	NO	0.611	10.012	38.08	1.126	200.00	100	1.14	
24	13C-OCDD	3.02e5	0.88	NO	0.545	10.012	41.47	1.226	428.16	107	0.900	
25	13C-2,3,7,8-TCDF	3.39e5	0.76	NO	1.07	10.012	26.12	1.003	150.50	75.3	0.292	
26	13C-1,2,3,7,8-PeCDF	3.59e5	1.59	NO	0.907	10.012	29.85	1.146	188.17	94.2	1.02	
27	13C-2,3,4,7,8-PeCDF	3.55e5	1.55	NO	0.889	10.012	30.80	1.182	190.31	95.3	1.04	
28	13C-1,2,3,4,7,8-HxCDF	2.05e5	0.49	NO	0.993	10.012	33.36	0.986	159.55	79.9	1.19	
29	13C-1,2,3,6,7,8-HxCDF	2.40e5	0.49	NO	1.05	10.012	33.50	0.990	176.52	88.4	1.12	
30	13C-2,3,4,6,7,8-HxCDF	1.88e5	0.46	NO	0.956	10.012	34.18	1.011	152.42	76.3	1.24	

Enthalpy Analytical EDH- VG-11

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-10.qld

Last Altered: Monday, June 12, 2023 4:12:14 PM Pacific Daylight Time
Printed: Monday, June 12, 2023 4:12:31 PM Pacific Daylight Time

Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03, Task: ST230611R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.59e5	0.47	NO	0.853	10.012	35.26	1.042	144.89	72.5	1.39	
32	13C-1,2,3,4,6,7,8-HpCDF	1.33e5	0.40	NO	0.721	10.012	36.88	1.090	142.63	71.4	1.36	
33	13C-1,2,3,4,7,8,9-HpCDF	9.69e4	0.38	NO	0.581	10.012	38.78	1.146	129.16	64.7	1.69	
34	13C-OCDF	2.99e5	0.85	NO	0.718	10.012	41.79	1.235	322.53	80.7	1.69	
35	37Cl-2,3,7,8-TCDD	1.16e5			0.980	10.012	26.74	1.027	76.411	95.6	0.101	
36	13C-1,2,3,4-TCDD	3.08e5	0.77	NO	1.00	10.012	26.05	1.000	199.76	100	0.342	
37	13C-1,2,3,4-TCDF	4.20e5	0.76	NO	1.00	10.012	24.76	1.000	199.76	100	0.314	
38	13C-1,2,3,4,6,9-HxCDF	2.58e5	0.49	NO	1.00	10.012	33.83	1.000	199.76	100	1.18	
39	Total Tetra-Dioxins				0.906	10.012			63.391		0.121	65.6
40	Total Penta-Dioxins				0.745	10.012			211.58		2.56	239
41	Total Hexa-Dioxins				0.782	10.012			3554.0		2.85	3550
42	Total Hepta-Dioxins				0.903	10.012			32684		5.50	32700
43	Total Tetra-Furans				0.852	10.012			108.16		0.416	110
44	1st Func. Penta-Furans				0.758	10.012			517.94		0.0680	518
45	Total Penta-Furans				0.758	10.012			283.14		<0.589	283
46	Total Hexa-Furans				0.756	10.012			2756.5		1.57	2760
47	Total Hepta-Furans				0.754	10.012			3405.0		2.89	3410

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-10.qld

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Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03, Task: ST230611R2_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.46	2.000e5	2.562e5	1.459e4	1.910e4	0.76	NO	3.369e4	24.571	24.571	0.121
2	Total Tetra-Dioxins	23.76	1.240e5	1.749e5	9.862e3	1.283e4	0.77	NO	2.269e4	16.549	16.549	0.121
3	Total Tetra-Dioxins	24.20	9.257e3	1.408e4	7.041e2	1.052e3	0.67	NO	1.756e3	1.2810	1.2810	0.121
4	Total Tetra-Dioxins	24.92	6.331e3	8.003e3	5.582e2	5.269e2	1.06	YES	0.000e0	0.00000	0.68011	0.121
5	Total Tetra-Dioxins	25.10	1.956e4	2.544e4	1.554e3	2.021e3	0.77	NO	3.575e3	2.6072	2.6072	0.121
6	Total Tetra-Dioxins	25.31	2.674e4	3.755e4	1.893e3	2.501e3	0.76	NO	4.394e3	3.2045	3.2045	0.121
7	Total Tetra-Dioxins	25.46	8.043e3	1.072e4	5.565e2	6.884e2	0.81	NO	1.245e3	0.90791	0.90791	0.121
8	Total Tetra-Dioxins	25.74	5.476e3	6.650e3	3.115e2	3.097e2	1.01	YES	0.000e0	0.00000	0.39977	0.121
9	Total Tetra-Dioxins	25.81	1.339e4	1.365e4	7.520e2	9.563e2	0.79	NO	1.708e3	1.2458	1.2458	0.121
10	Total Tetra-Dioxins	26.06	5.224e4	6.440e4	3.480e3	4.468e3	0.78	NO	7.948e3	5.7966	5.7966	0.121
11	Total Tetra-Dioxins	26.25	4.095e3	5.563e3	2.593e2	3.459e2	0.75	NO	6.052e2	0.44140	0.44140	0.121
12	Total Tetra-Dioxins	26.49	2.311e4	2.906e4	2.169e3	2.856e3	0.76	NO	5.025e3	3.6646	3.6646	0.121
13	2,3,7,8-TCDD	26.76	1.984e4	2.704e4	1.364e3	1.920e3	0.71	NO	3.284e3	2.3948	2.3948	0.121
14	Total Tetra-Dioxins	27.04	1.200e4	1.585e4	8.060e2	8.913e2	0.90	YES	0.000e0	0.00000	1.1506	0.121
15	Total Tetra-Dioxins	27.14	2.984e3	4.387e3	2.109e2	2.419e2	0.87	NO	4.528e2	0.33024	0.33024	0.121
16	Total Tetra-Dioxins	27.54	4.651e3	4.513e3	2.485e2	2.958e2	0.84	NO	5.443e2	0.39693	0.39693	0.121

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Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.91	2.814e5	4.803e5	2.141e4	3.707e4	0.58	NO	5.847e4	60.341	60.341	2.56
2	Total Penta-Dioxins	29.37	7.803e4	1.293e5	4.105e3	7.004e3	0.59	NO	1.111e4	11.464	11.464	2.56
3	Total Penta-Dioxins	29.83	2.408e5	4.413e5	1.356e4	2.333e4	0.58	NO	3.689e4	38.067	38.067	2.56
4	Total Penta-Dioxins	30.00	2.135e5	3.501e5	1.105e4	1.939e4	0.57	NO	3.044e4	31.412	31.412	2.56
5	Total Penta-Dioxins	30.04	1.849e5	3.072e5	1.038e4	1.664e4	0.62	NO	0.000e0	0.00000	27.888	2.56
6	Total Penta-Dioxins	30.28	8.142e4	1.368e5	6.735e3	1.097e4	0.61	NO	1.771e4	18.271	18.271	2.56
7	Total Penta-Dioxins	30.56	4.033e4	6.500e4	2.410e3	3.940e3	0.61	NO	6.350e3	6.5528	6.5528	2.56
8	1,2,3,7,8-PeCDD	30.99	2.088e5	3.818e5	1.138e4	1.981e4	0.57	NO	3.119e4	32.182	32.182	2.56
9	Total Penta-Dioxins	31.05	4.703e4	8.019e4	2.638e3	4.483e3	0.59	NO	7.121e3	7.3486	7.3486	2.56
10	Total Penta-Dioxins	31.32	3.649e4	4.593e4	2.287e3	3.475e3	0.66	NO	5.762e3	5.9462	5.9462	2.56

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.60	6.766e6	5.345e6	3.918e5	3.133e5	1.25	NO	7.052e5	978.04	978.04	2.85
2	Total Hexa-Dioxins	33.22	1.067e6	8.405e5	6.474e4	5.065e4	1.28	NO	1.154e5	160.03	160.03	2.85
3	Total Hexa-Dioxins	33.52	6.840e6	5.470e6	5.218e5	4.172e5	1.25	NO	9.390e5	1302.3	1302.3	2.85
4	Total Hexa-Dioxins	33.62	8.584e5	6.532e5	4.999e4	3.789e4	1.32	NO	8.788e4	121.88	121.88	2.85
5	1,2,3,4,7,8-HxCDD	34.30	4.828e5	3.767e5	3.160e4	2.532e4	1.25	NO	5.692e4	79.052	79.052	2.59
6	1,2,3,6,7,8-HxCDD	34.43	4.105e6	3.263e6	2.976e5	2.362e5	1.26	NO	5.338e5	678.76	678.76	2.70
7	Total Hexa-Dioxins	34.60	2.297e5	1.784e5	1.859e4	1.522e4	1.22	NO	3.382e4	46.901	46.901	2.85
8	1,2,3,7,8,9-HxCDD	34.73	9.028e5	7.171e5	7.300e4	5.823e4	1.25	NO	1.312e5	187.02	187.02	3.10

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.21	1.082e8	1.076e8	6.872e6	6.797e6	1.01	NO	1.367e7	19156	19156	5.50
2	1,2,3,4,6,7,8-HpCDD	38.09	7.052e7	6.973e7	4.837e6	4.816e6	1.00	NO	9.653e6	13528	13528	5.50

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.43	8.643e3	1.219e4	9.191e2	1.141e3	0.81	NO	0.000e0	0.00000	1.4230	0.416
2	Total Tetra-Furans	22.03	2.189e4	2.898e4	2.127e3	2.676e3	0.79	NO	4.804e3	3.3186	3.3186	0.416
3	Total Tetra-Furans	22.75	7.440e4	9.979e4	5.954e3	8.095e3	0.74	NO	1.405e4	9.7062	9.7062	0.416
4	Total Tetra-Furans	22.93	7.013e3	8.470e3	4.867e2	5.604e2	0.87	NO	1.047e3	0.72341	0.72341	0.416
5	Total Tetra-Furans	23.05	1.614e4	2.215e4	1.191e3	1.636e3	0.73	NO	2.827e3	1.9532	1.9532	0.416
6	Total Tetra-Furans	23.15	2.921e4	3.991e4	2.022e3	3.029e3	0.67	NO	5.051e3	3.4895	3.4895	0.416
7	Total Tetra-Furans	23.22	2.899e4	3.627e4	2.168e3	2.934e3	0.74	NO	5.103e3	3.5254	3.5254	0.416
8	Total Tetra-Furans	23.52	7.716e4	1.050e5	7.234e3	1.017e4	0.71	NO	1.740e4	12.021	12.021	0.416
9	Total Tetra-Furans	23.90	9.283e4	1.368e5	7.091e3	1.006e4	0.70	NO	1.715e4	11.849	11.849	0.416
10	Total Tetra-Furans	24.01	1.911e4	2.626e4	1.336e3	1.899e3	0.70	NO	3.235e3	2.2351	2.2351	0.416
11	Total Tetra-Furans	24.20	2.900e4	4.921e4	2.222e3	3.216e3	0.69	NO	5.437e3	3.7563	3.7563	0.416
12	Total Tetra-Furans	24.58	1.197e4	1.764e4	7.722e2	1.108e3	0.70	NO	1.880e3	1.2990	1.2990	0.416
13	Total Tetra-Furans	24.64	2.027e4	2.759e4	1.382e3	1.822e3	0.76	NO	3.204e3	2.2135	2.2135	0.416
14	Total Tetra-Furans	24.88	7.232e4	9.665e4	8.031e3	1.114e4	0.72	NO	1.917e4	13.247	13.247	0.416
15	Total Tetra-Furans	25.26	7.502e4	9.649e4	5.263e3	6.960e3	0.76	NO	1.222e4	8.4442	8.4442	0.416
16	Total Tetra-Furans	25.56	1.493e4	2.159e4	1.008e3	1.384e3	0.73	NO	2.392e3	1.6529	1.6529	0.416
17	Total Tetra-Furans	25.63	1.302e4	1.336e4	6.904e2	8.621e2	0.80	NO	1.553e3	1.0726	1.0726	0.416
18	Total Tetra-Furans	25.74	3.206e3	4.789e3	2.058e2	3.265e2	0.63	YES	0.000e0	0.00000	0.32679	0.416
19	Total Tetra-Furans	25.90	2.403e4	2.948e4	1.453e3	1.836e3	0.79	NO	3.289e3	2.2723	2.2723	0.416
20	Total Tetra-Furans	26.03	2.386e4	3.630e4	1.418e3	2.064e3	0.69	NO	3.483e3	2.4059	2.4059	0.416
21	2,3,7,8-TCDF	26.15	1.094e5	1.433e5	7.157e3	9.476e3	0.76	NO	1.663e4	11.491	11.491	0.416
22	Total Tetra-Furans	26.42	3.114e4	3.918e4	2.577e3	3.230e3	0.80	NO	5.807e3	4.0121	4.0121	0.416
23	Total Tetra-Furans	26.67	5.904e3	8.924e3	4.316e2	5.437e2	0.79	NO	9.753e2	0.67381	0.67381	0.416
24	Total Tetra-Furans	27.47	5.484e4	7.121e4	3.455e3	4.615e3	0.75	NO	8.069e3	5.5749	5.5749	0.416
25	Total Tetra-Furans	27.84	1.221e4	1.735e4	7.272e2	1.051e3	0.69	NO	1.778e3	1.2283	1.2283	0.416

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.47	7.446e6	4.619e6	4.284e5	2.728e5	1.57	NO	7.012e5	517.94	517.94	0.0680

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.79	9.632e4	5.838e4	6.708e3	4.227e3	1.59	NO	1.094e4	8.0768	8.0768	0.589
2	Total Penta-Furans	28.94	1.023e6	6.233e5	7.459e4	4.491e4	1.66	NO	1.195e5	88.268	88.268	0.589
3	Total Penta-Furans	29.52	3.724e5	2.081e5	2.383e4	1.481e4	1.61	NO	3.864e4	28.539	28.539	0.589
4	Total Penta-Furans	29.67	1.954e5	1.370e5	1.152e4	7.299e3	1.58	NO	1.882e4	13.897	13.897	0.589
5	1,2,3,7,8-PeCDF	29.86	4.616e5	2.806e5	2.625e4	1.623e4	1.62	NO	4.249e4	31.246	31.246	0.601
6	Total Penta-Furans	30.09	5.864e5	3.323e5	3.146e4	1.885e4	1.67	NO	5.031e4	37.161	37.161	0.589
7	Total Penta-Furans	30.66	3.434e4	2.376e4	2.388e3	1.713e3	1.39	NO	4.101e3	3.0291	3.0291	0.589
8	2,3,4,7,8-PeCDF	30.83	1.141e6	7.071e5	6.289e4	3.916e4	1.61	NO	1.021e5	68.739	68.739	0.524
9	Total Penta-Furans	31.69	6.047e4	4.155e4	3.393e3	2.277e3	1.49	NO	5.670e3	4.1878	4.1878	0.589

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.07	3.072e6	2.518e6	1.686e5	1.409e5	1.20	NO	3.095e5	412.94	412.94	1.57
2	Total Hexa-Furans	32.24	5.973e6	5.109e6	3.453e5	2.922e5	1.18	NO	6.375e5	850.48	850.48	1.57
3	Total Hexa-Furans	32.67	6.210e4	5.006e4	4.207e3	3.526e3	1.19	NO	7.733e3	10.317	10.317	1.57
4	Total Hexa-Furans	32.89	8.342e6	6.916e6	4.984e5	4.214e5	1.18	NO	9.198e5	1227.1	1227.1	1.57
5	Total Hexa-Furans	33.24	4.890e4	3.787e4	3.002e3	2.265e3	1.33	NO	5.266e3	7.0260	7.0260	1.57
6	1,2,3,4,7,8-HxCDF	33.37	4.996e5	4.237e5	3.084e4	2.559e4	1.21	NO	5.643e4	72.276	72.276	1.31
7	1,2,3,6,7,8-HxCDF	33.51	3.540e5	2.916e5	2.384e4	1.967e4	1.21	NO	4.351e4	49.865	49.865	1.30
8	Total Hexa-Furans	33.84	2.798e4	2.227e4	1.993e3	1.467e3	1.36	NO	3.459e3	4.6150	4.6150	1.57
9	2,3,4,6,7,8-HxCDF	34.22	3.801e5	3.092e5	2.433e4	1.999e4	1.22	NO	4.432e4	62.247	62.247	1.55
10	Total Hexa-Furans	34.25	2.455e5	1.939e5	6.657e3	5.328e3	1.25	NO	1.198e4	15.989	15.989	1.57
11	1,2,3,7,8,9-HxCDF	35.30	1.802e5	1.513e5	1.100e4	9.093e3	1.21	NO	2.010e4	33.624	33.624	2.41
12	Total Hexa-Furans	35.33	1.338e5	1.040e5	4.176e3	3.367e3	1.24	NO	7.544e3	10.064	10.064	1.57

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Hepta-Furans

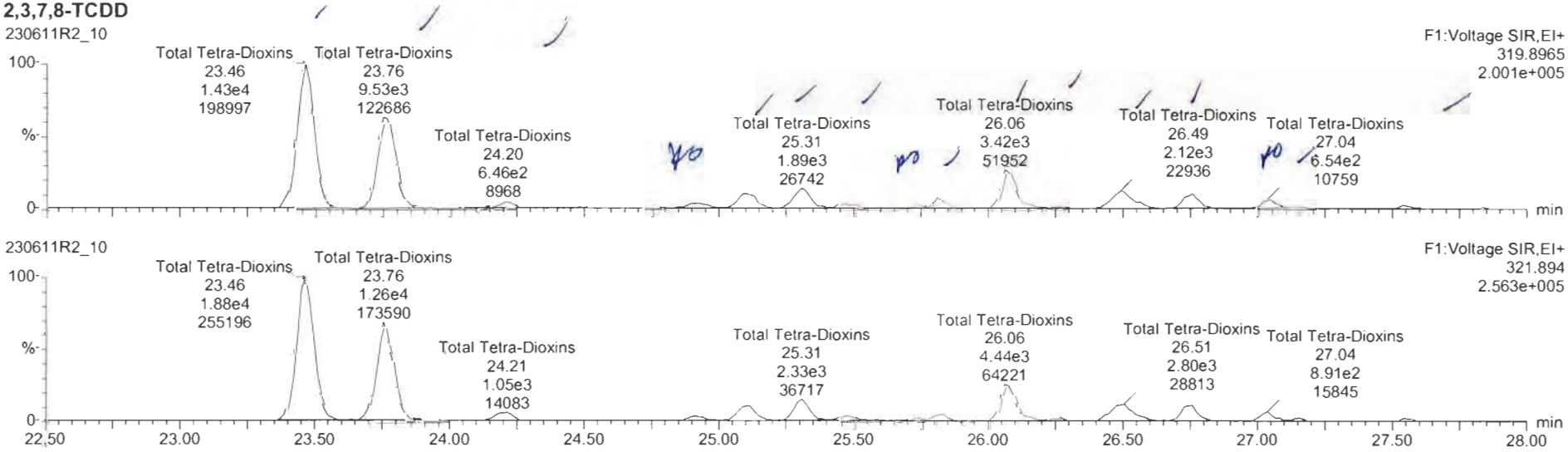
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.89	3.421e6	3.453e6	2.541e5	2.560e5	0.99	NO	5.101e5	1018.0	1018.0	2.51
2	Total Hepta-Furans	37.48	7.668e6	7.817e6	5.028e5	5.109e5	0.98	NO	1.014e6	2339.4	2339.4	2.89
3	1,2,3,4,7,8,9-HpCDF	38.79	1.096e5	1.129e5	9.050e3	9.240e3	0.98	NO	1.829e4	47.607	47.607	3.24

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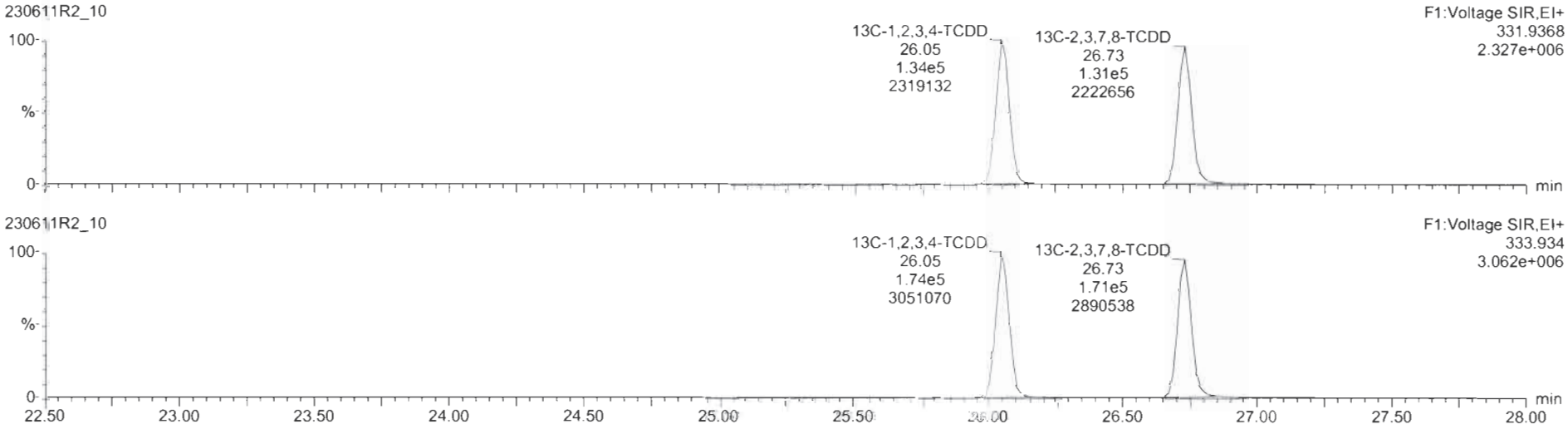
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2,3,7,8-TCDD



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

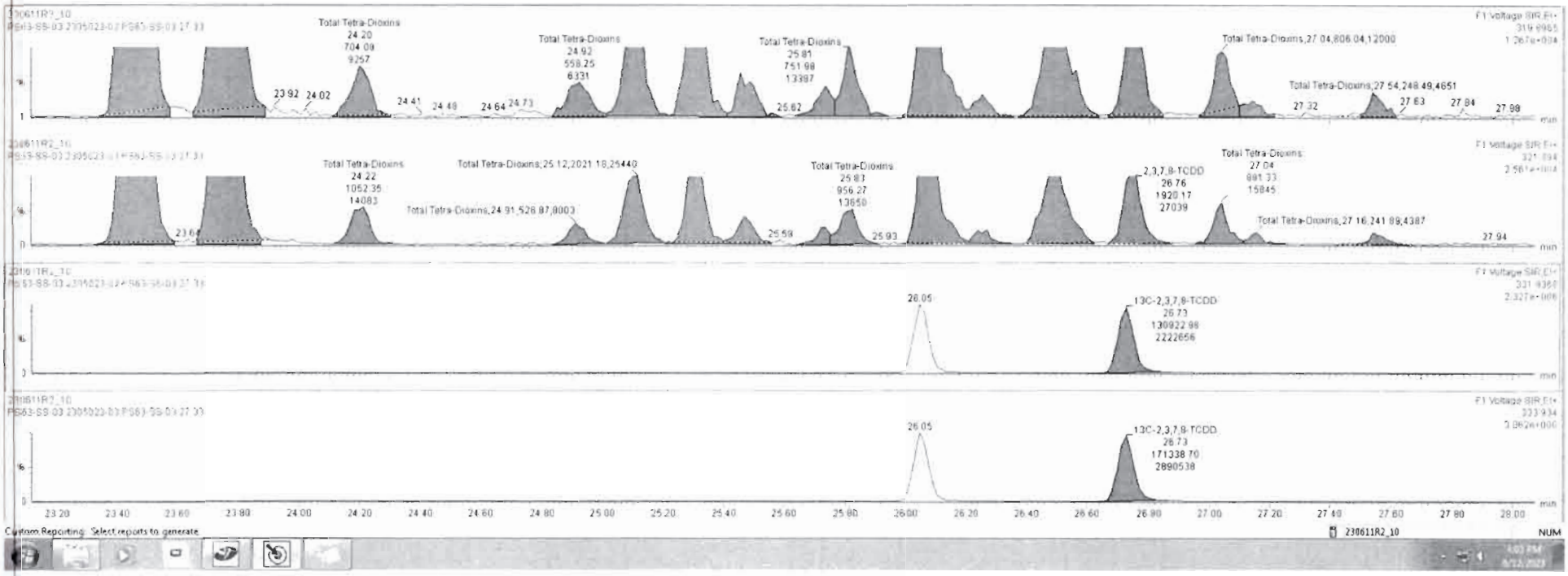


TargetLynx - 230611R2-10 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_10 - 2305023-03 PS63-SS-03 27.33 - PS63-SS-03

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
3	Total Tetra-Dioxins	24.20	7.041e2	1.052e3	0.67	NO	1.2810	1.2810
4	Total Tetra-Dioxins	24.92	5.582e2	5.269e2	1.06	YES	0.68011	0.00000
5	Total Tetra-Dioxins	25.10	1.554e3	2.021e3	0.77	NO	2.6072	2.6072
6	Total Tetra-Dioxins	25.31	1.893e3	2.501e3	0.76	NO	3.2045	3.2045
7	Total Tetra-Dioxins	25.46	5.565e2	6.884e2	0.81	NO	0.90791	0.00000
8	Total Tetra-Dioxins	25.74	3.115e2	3.097e2	1.01	YES	0.39977	0.00000
9	Total Tetra-Dioxins	25.81	7.520e2	9.563e2	0.79	NO	1.2458	1.2458
10	Total Tetra-Dioxins	26.06	3.480e3	4.468e3	0.78	NO	5.7966	5.7966
11	Total Tetra-Dioxins	26.25	2.593e2	3.459e2	0.75	NO	0.44140	0.44140
12	Total Tetra-Dioxins	26.49	2.169e3	2.856e3	0.76	NO	3.6646	3.6646
13	2,3,7,8-TCDD	26.76	1.364e3	1.920e3	0.71	NO	2.3948	2.3948
14	Total Tetra-Dioxins	27.04	8.060e2	8.913e2	0.90	YES	1.1606	0.00000
15	Total Tetra-Dioxins	27.14	2.109e2	2.419e2	0.87	NO	0.33024	0.33024
16	Total Tetra-Dioxins	27.54	2.485e2	2.958e2	0.84	NO	0.39693	0.39693



Custom Reporting Select reports to generate

230611R2_10

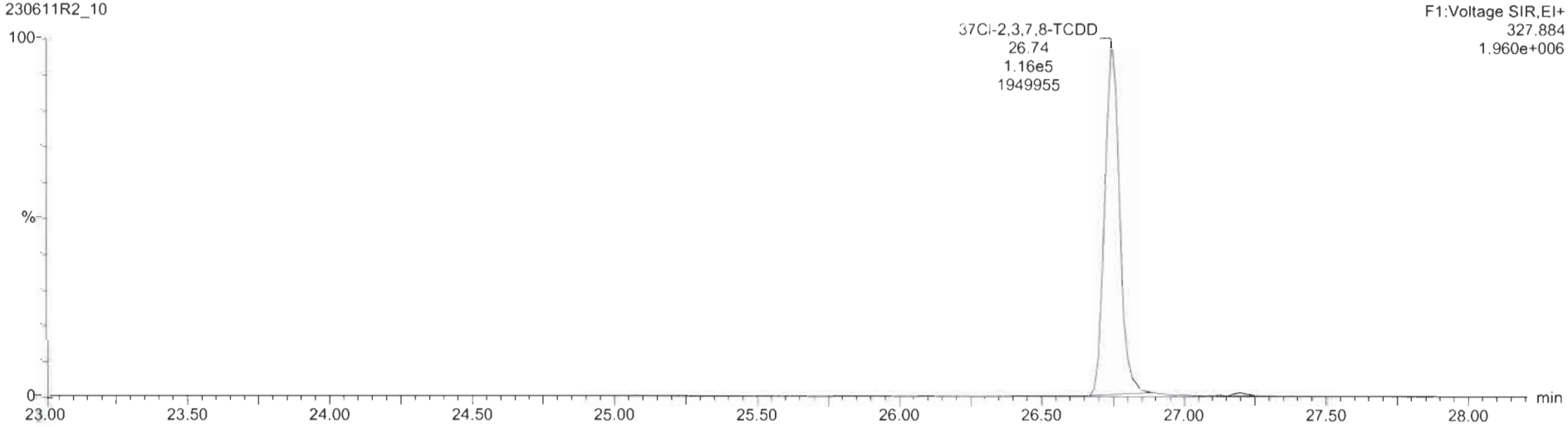
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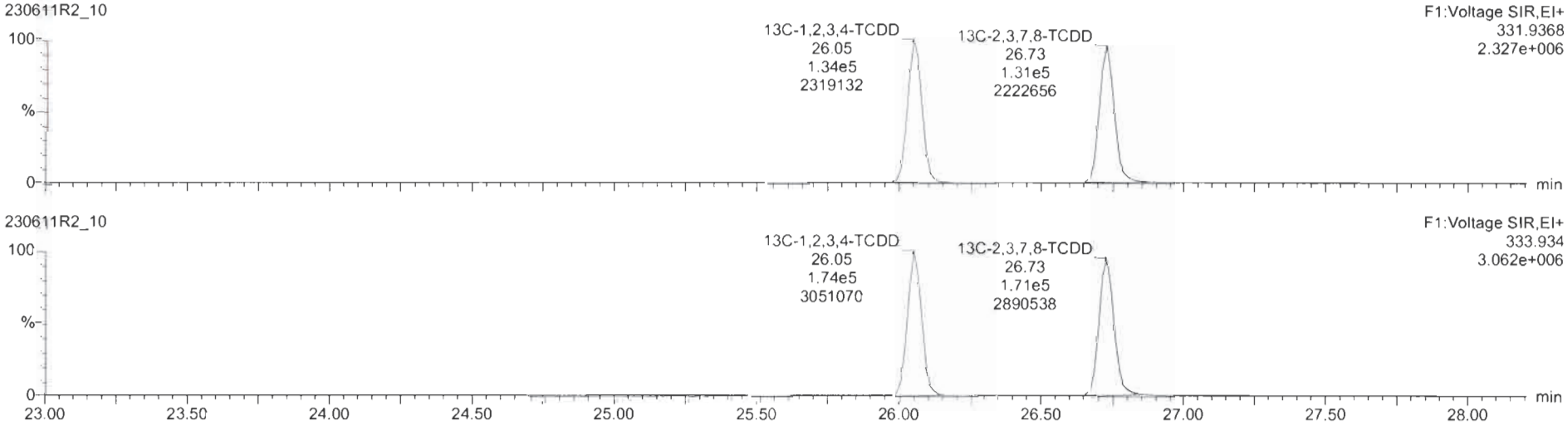
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03

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



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

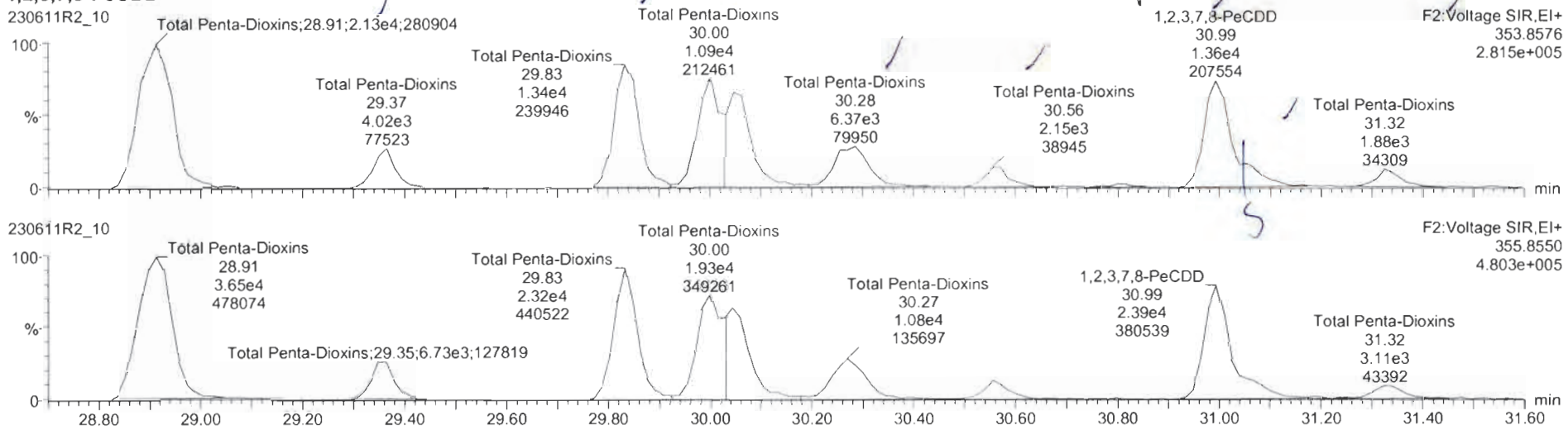


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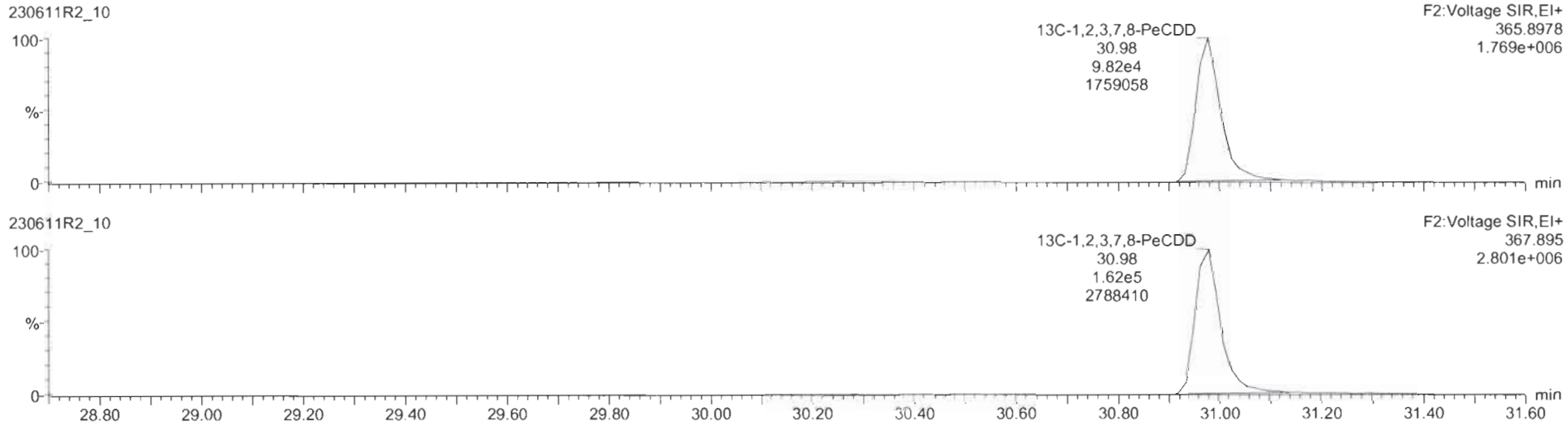
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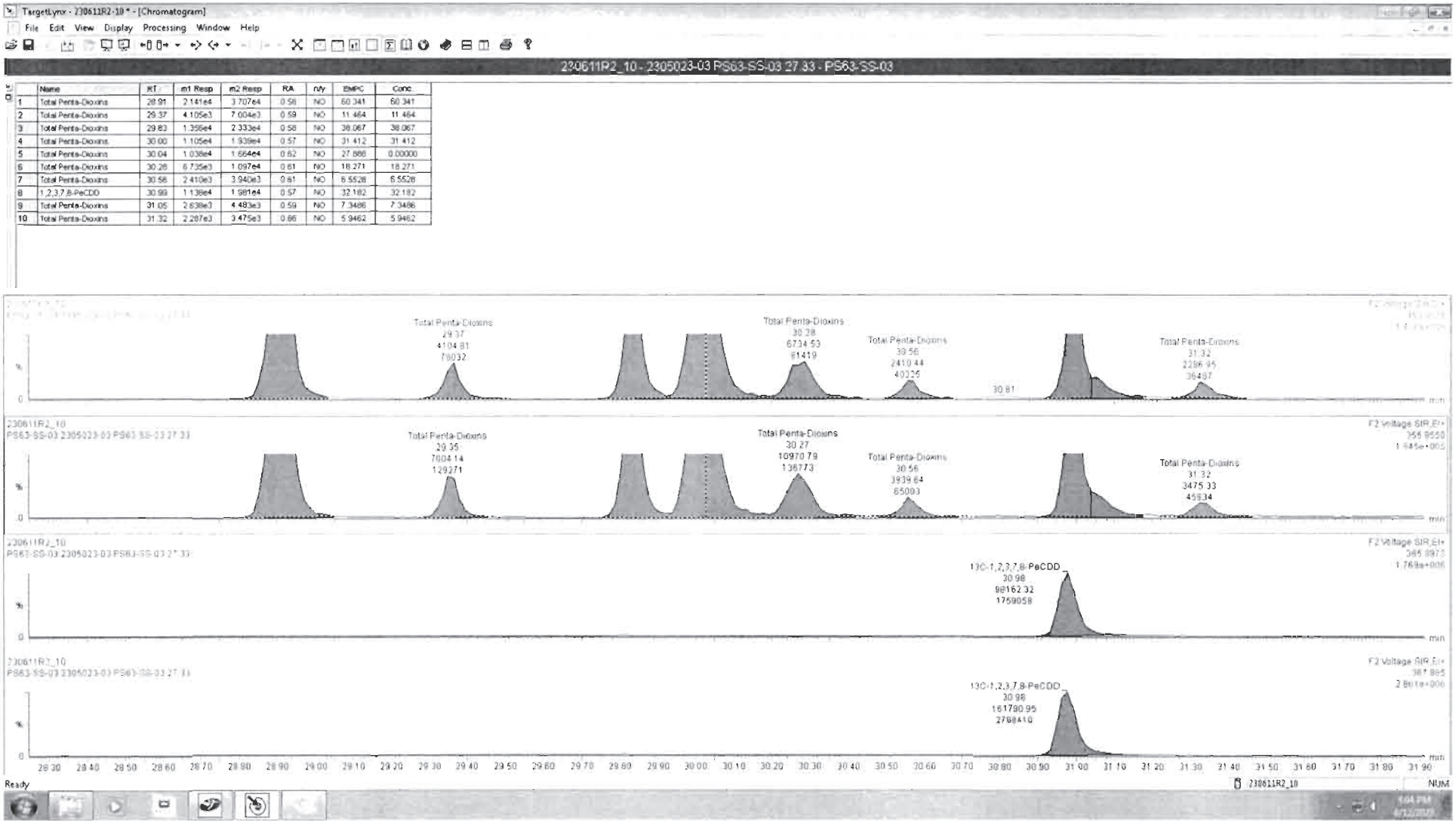
Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03

1,2,3,7,8-PeCDD



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





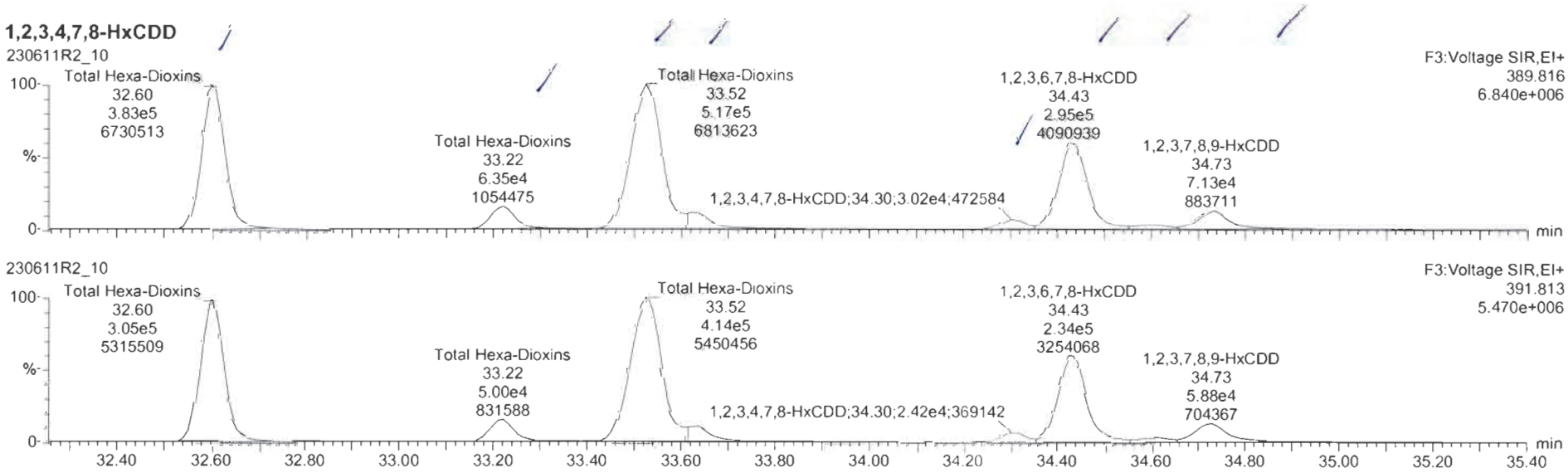
	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	28.91	2.141e4	3.707e4	0.58	NO	60.341	60.341
2	Total Penta-Dioxins	29.37	4.105e3	7.004e3	0.59	NO	11.464	11.464
3	Total Penta-Dioxins	29.83	1.356e4	2.333e4	0.58	NO	38.067	38.067
4	Total Penta-Dioxins	30.00	1.105e4	1.939e4	0.57	NO	31.412	31.412
5	Total Penta-Dioxins	30.04	1.038e4	1.664e4	0.62	NO	27.886	0.00000
6	Total Penta-Dioxins	30.28	6.735e3	1.097e4	0.61	NO	18.271	18.271
7	Total Penta-Dioxins	30.56	2.410e3	3.940e3	0.61	NO	6.5528	6.5528
8	1,2,3,7,8-PeCDD	30.99	1.136e4	1.981e4	0.57	NO	32.182	32.182
9	Total Penta-Dioxins	31.05	2.638e3	4.483e3	0.59	NO	7.3486	7.3486
10	Total Penta-Dioxins	31.32	2.287e3	3.475e3	0.66	NO	5.9462	5.9462

Dataset: Untitled

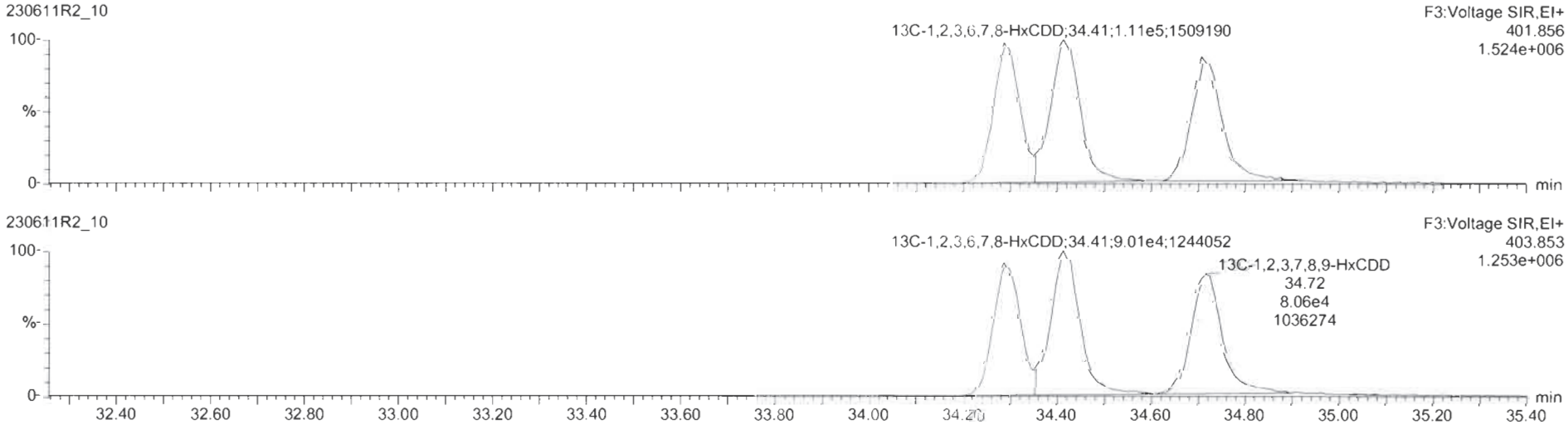
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

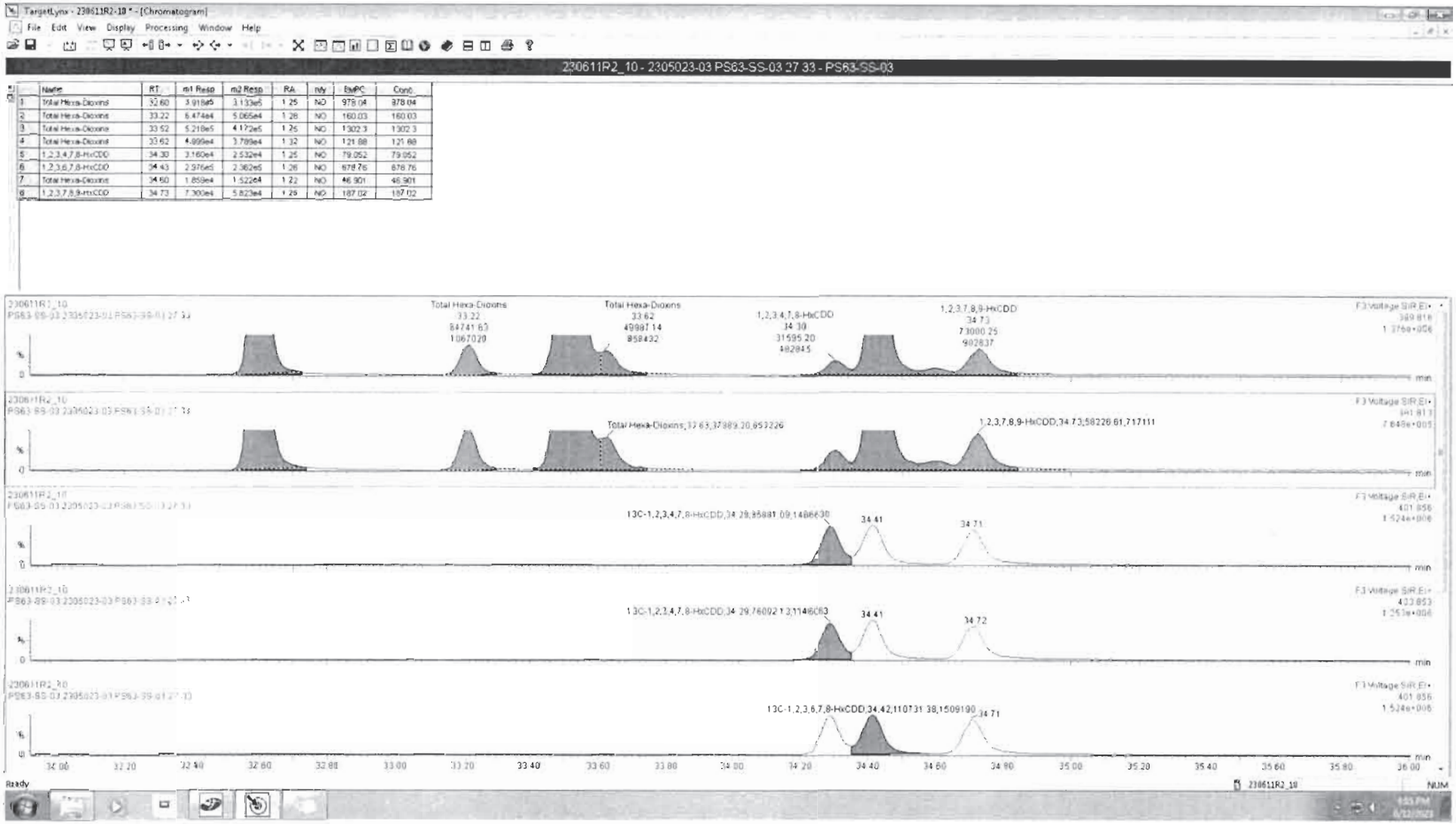
Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03

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



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





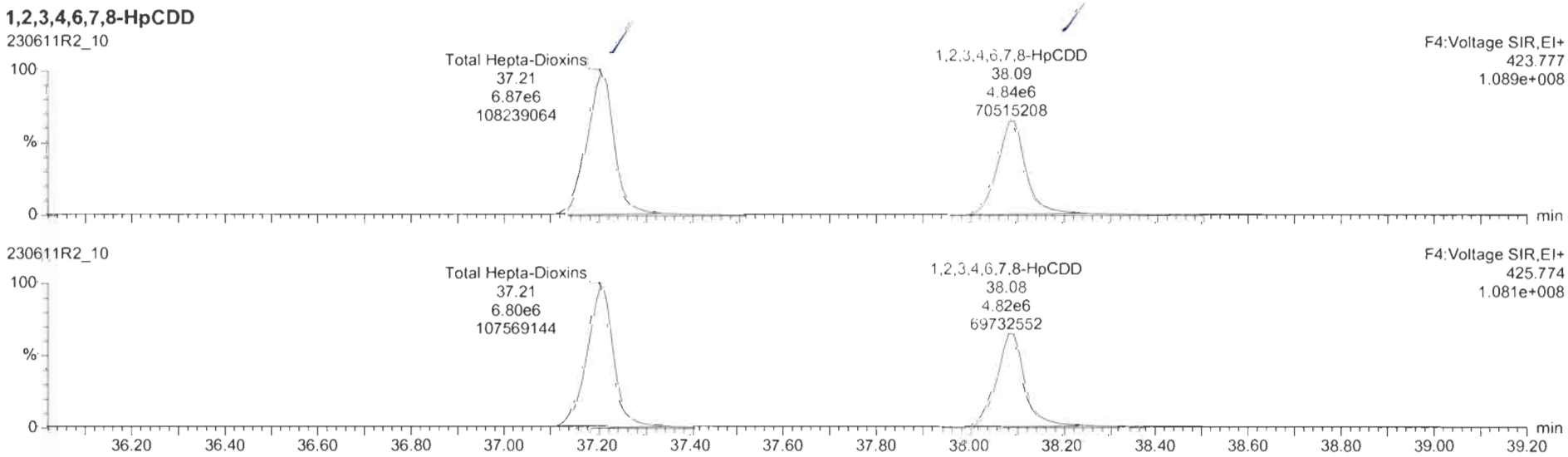
	Name	RT	m1 Resp	m2 Resp	RA	rdy	EMPC	Conc
1	Total Hexa-Dioxins	32.60	3.918e5	3.133e5	1.25	NO	978.04	978.04
2	Total Hexa-Dioxins	33.22	6.474e4	5.065e4	1.28	NO	160.03	160.03
3	Total Hexa-Dioxins	33.52	5.218e5	4.172e5	1.25	NO	1302.3	1302.3
4	Total Hexa-Dioxins	33.62	4.999e4	3.709e4	1.32	NO	121.88	121.88
5	1,2,3,4,7,8-HxCDD	34.30	3.160e4	2.532e4	1.25	NO	79.052	79.052
6	1,2,3,6,7,8-HxCDD	34.43	2.976e5	2.362e5	1.26	NO	678.76	678.76
7	Total Hexa-Dioxins	34.60	1.859e4	1.522e4	1.22	NO	46.901	46.901
8	1,2,3,7,8,9-HxCDD	34.73	7.300e4	5.823e4	1.25	NO	187.02	187.02

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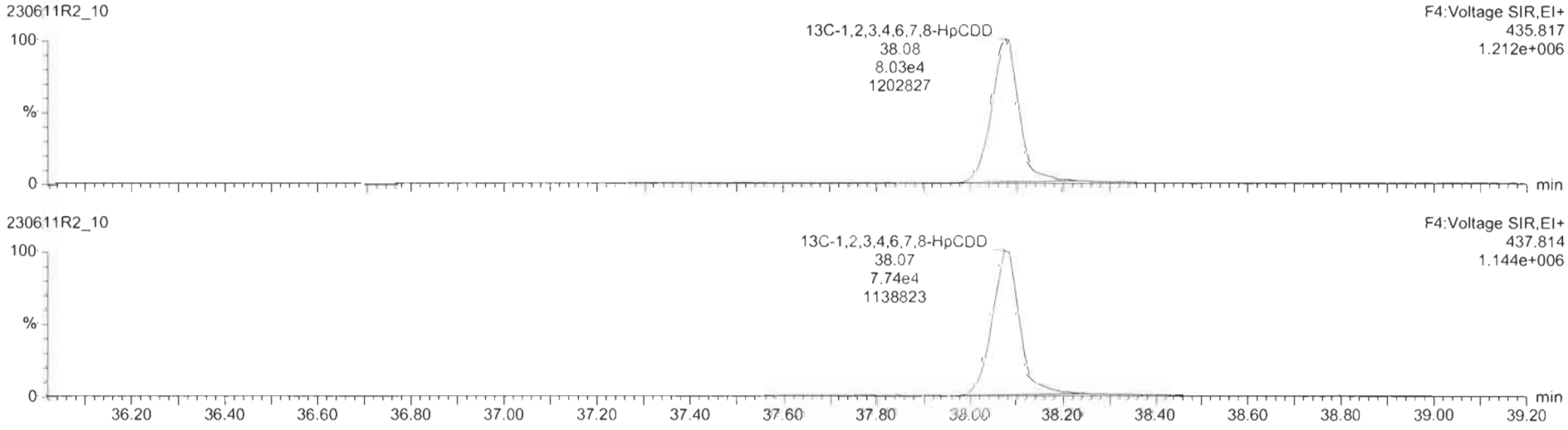
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1,2,3,4,6,7,8-HpCDD



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

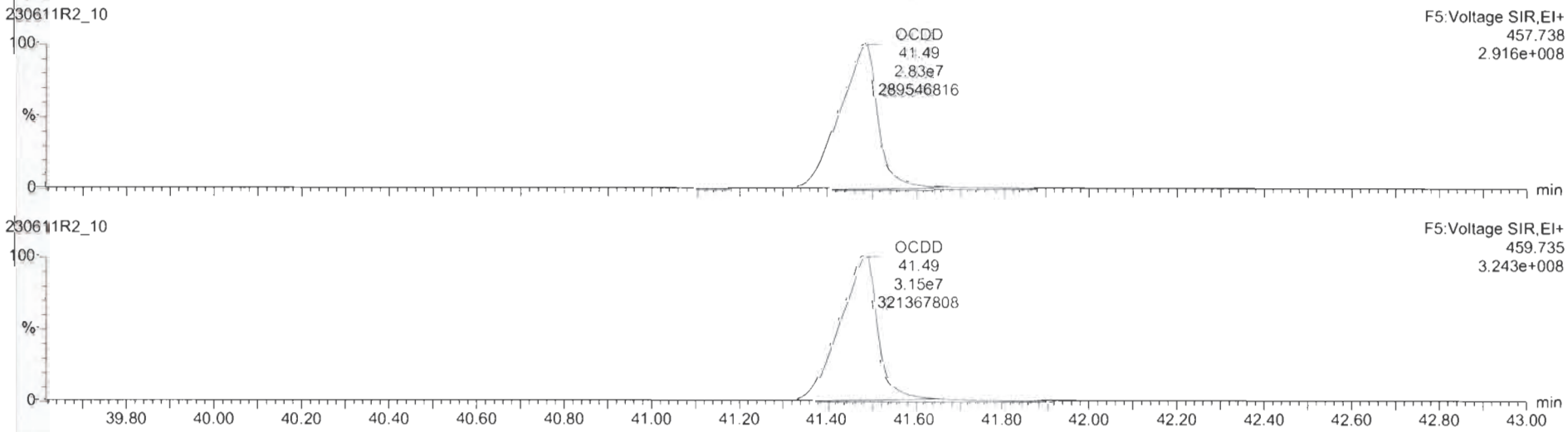


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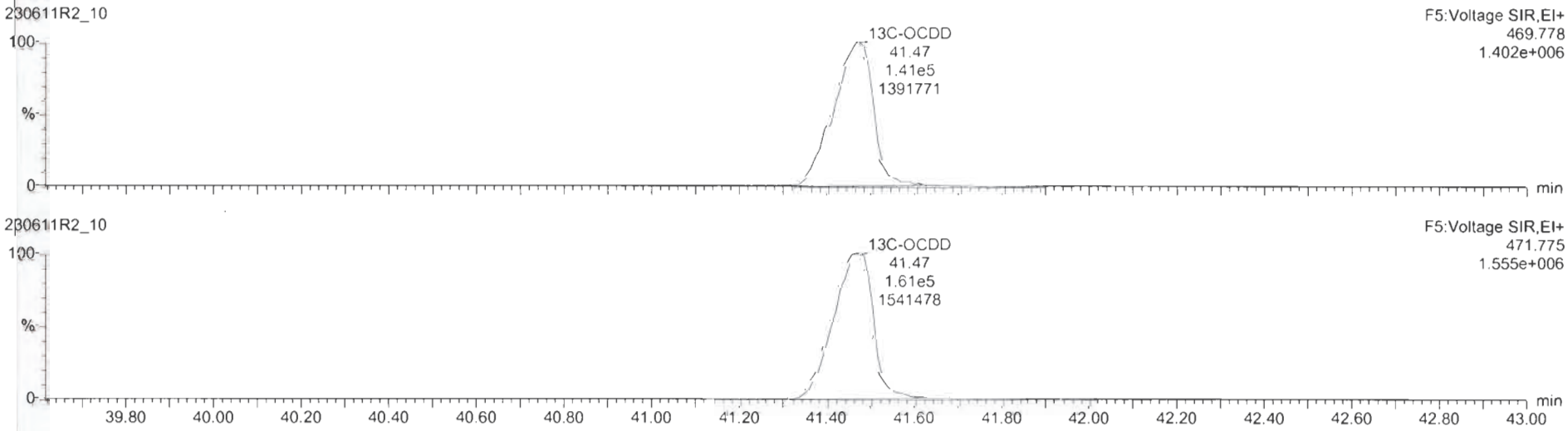
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Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03

OCDD



13C-OCDD

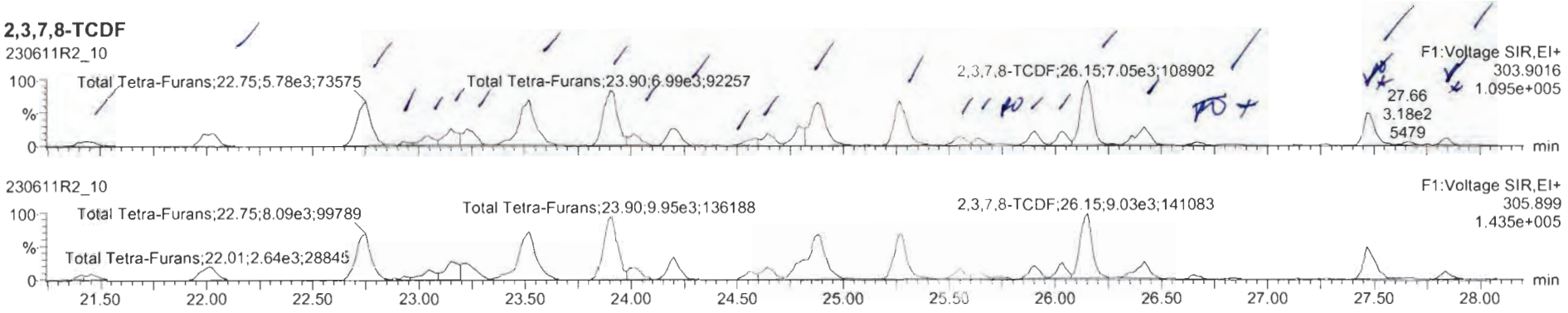


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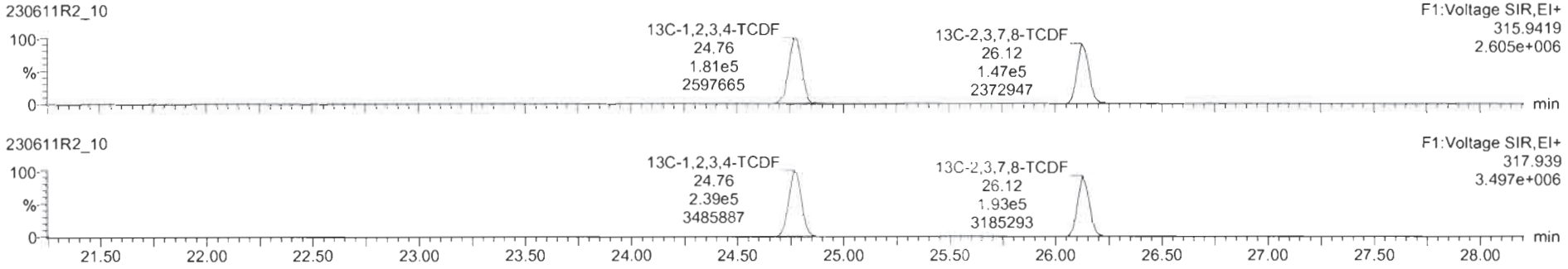
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Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03

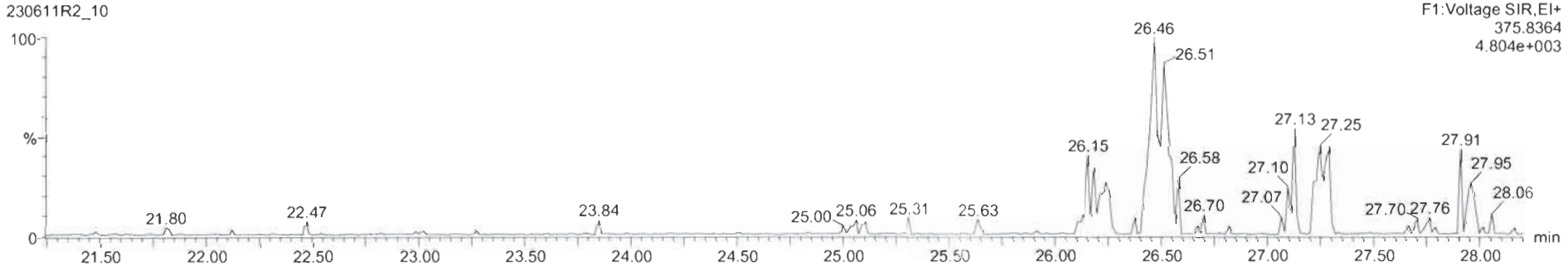
2,3,7,8-TCDF

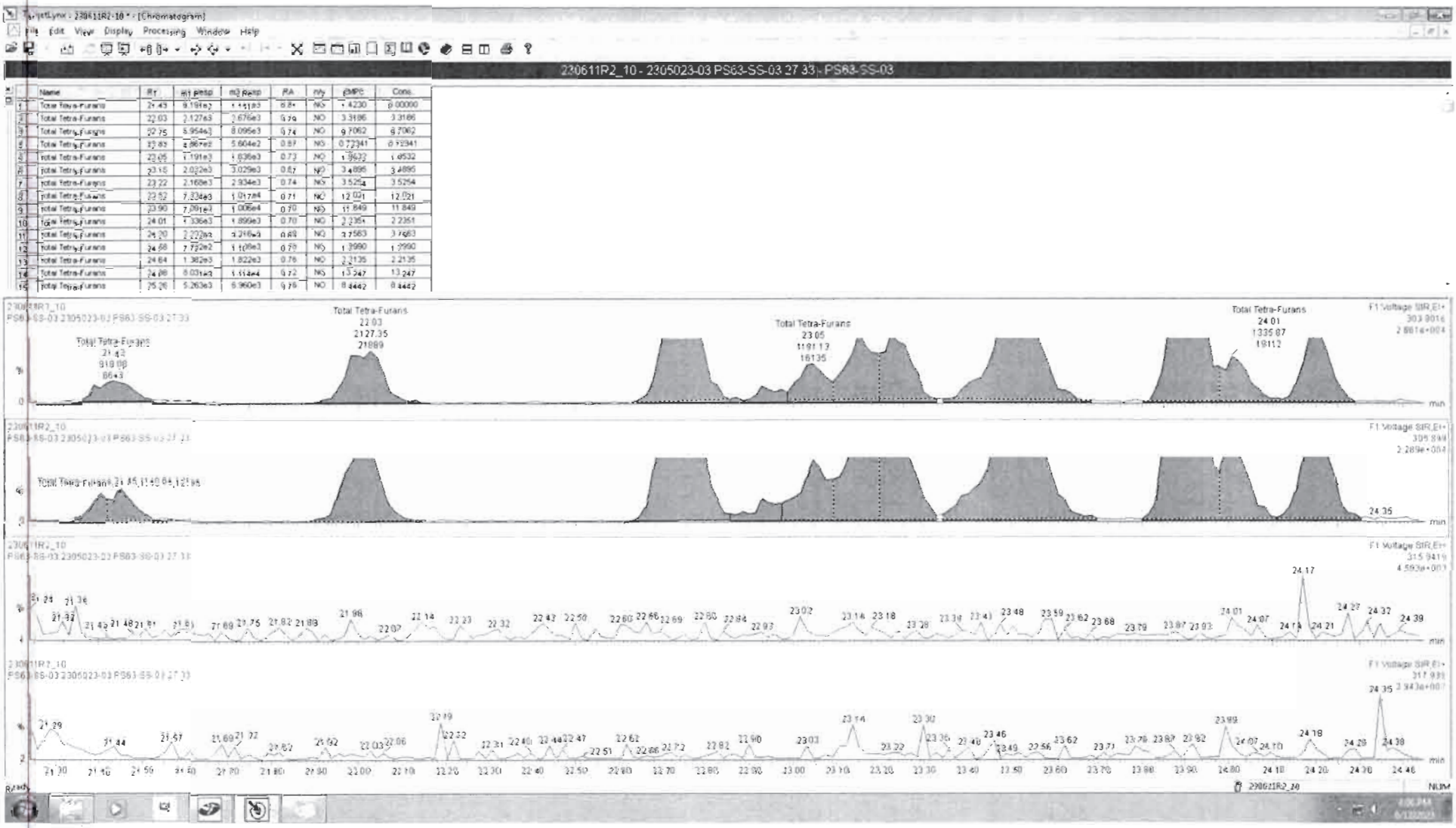


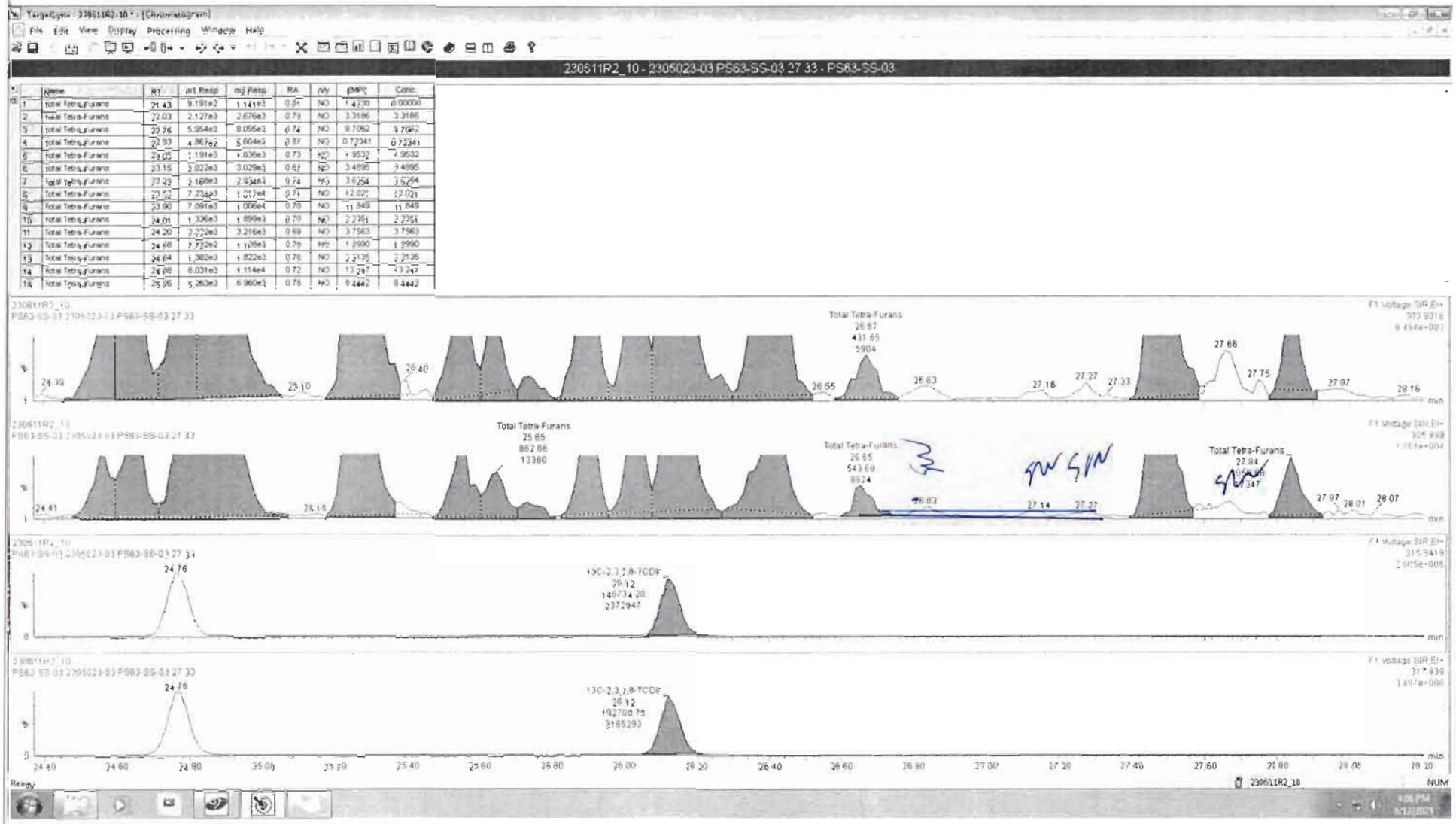
13C-2,3,7,8-TCDF



DPE1




MassLynx - 230611R2-10 * - [Chromatogram]
File Edit View Display Processing Window Help
230611R2_10 - 2305023-03 PS63-SS-03 27 33 - PS63-SS-03
Total Tetra-Furans
21.42
919.09
86.43
Total Tetra-Furans
22.03
2127.35
21889
Total Tetra-Furans
23.05
1191.13
16135
Total Tetra-Furans
24.01
1335.87
19112
24.35
min


230611R2_10 - 2305023-03 PS63-SS-03 27 33 - PS63-SS-03
Total Tetra-Furans
26.87
431.65
5904
Total Tetra-Furans
25.65
862.06
13360
Total Tetra-Furans
26.65
543.68
8924
Total Tetra-Furans
27.84
1347
1,3,6,7,8-TCDF
26.12
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1,3,6,7,8-TCDF
26.12
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24.76
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NUM

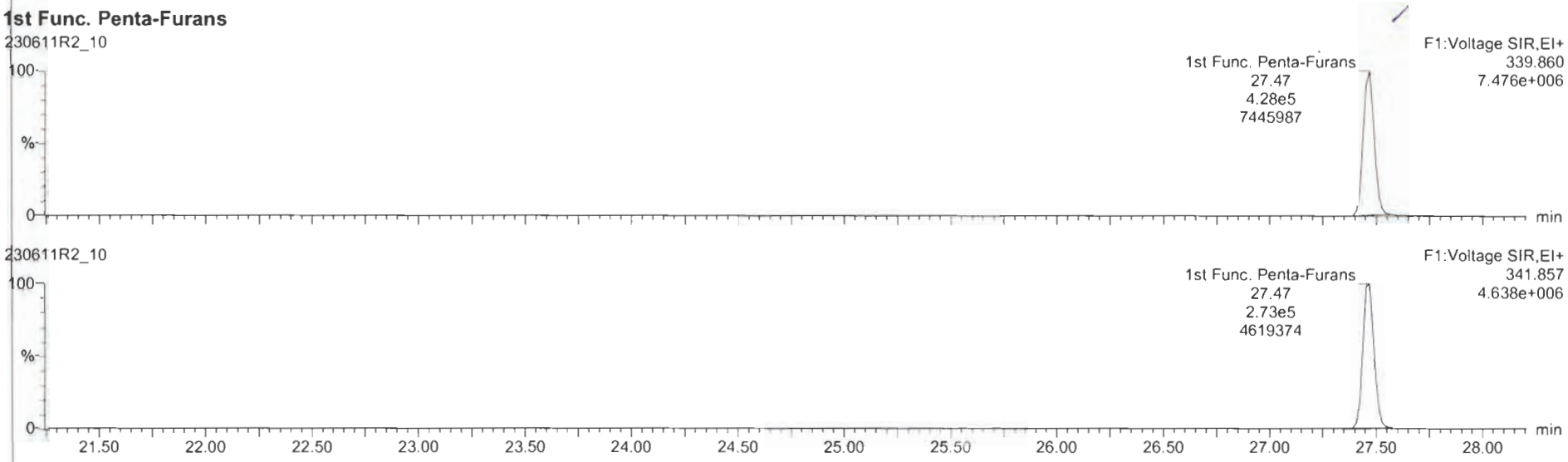
Enthalpy Analytical EDH VG-12

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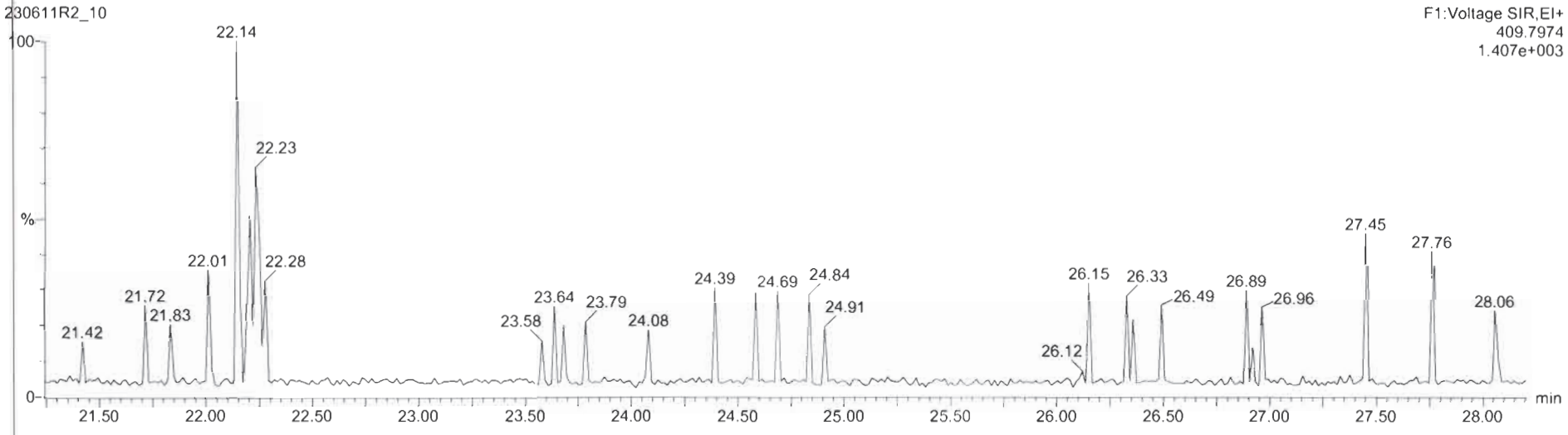
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Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03

1st Func. Penta-Furans



DPE6

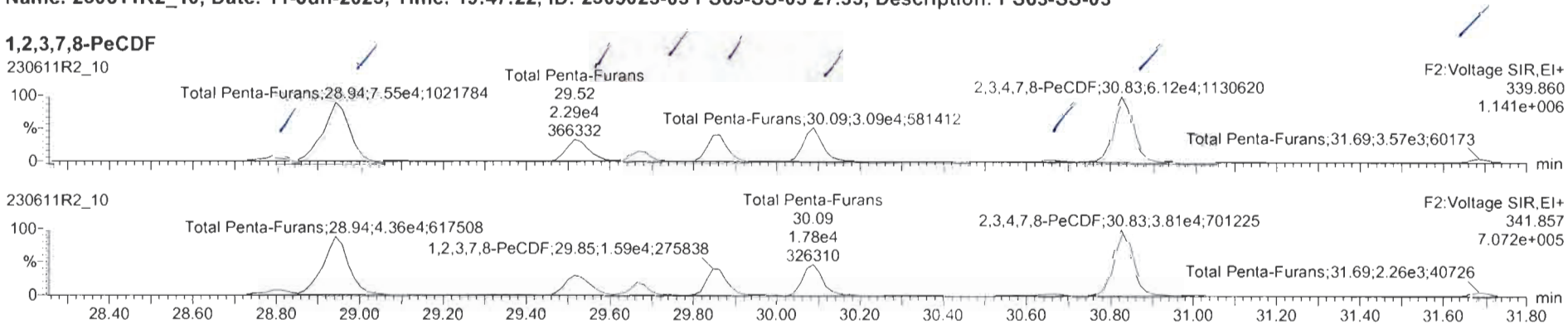


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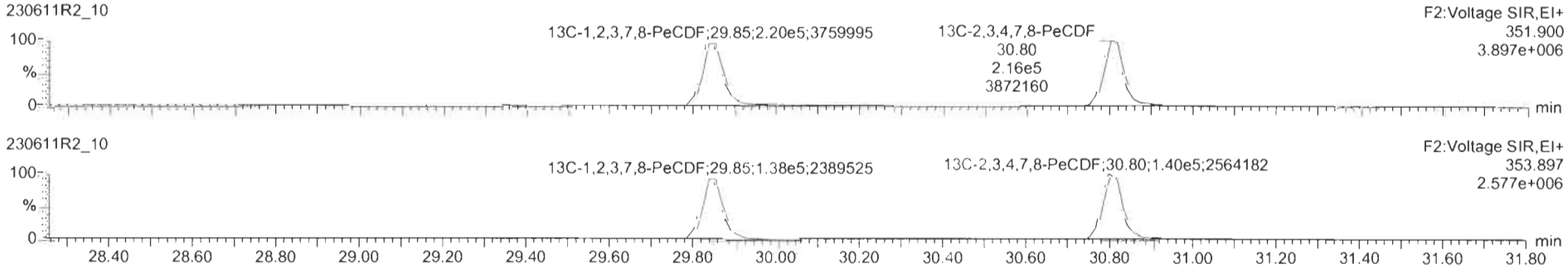
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

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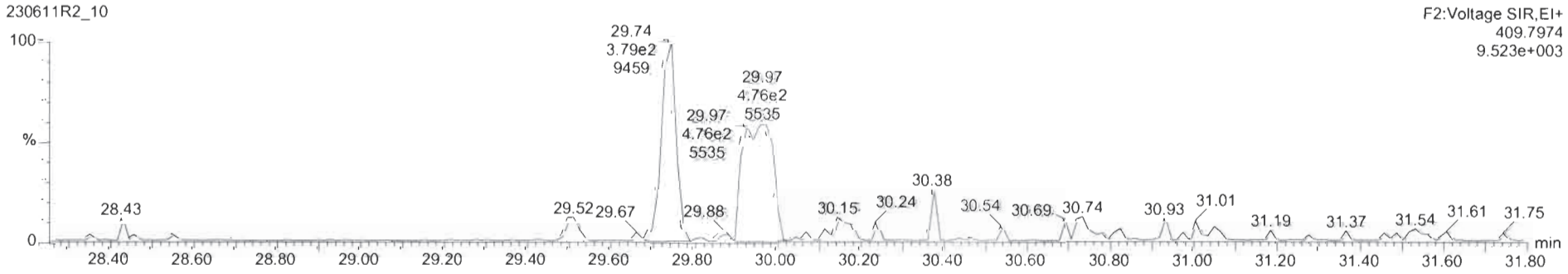
1,2,3,7,8-PeCDF

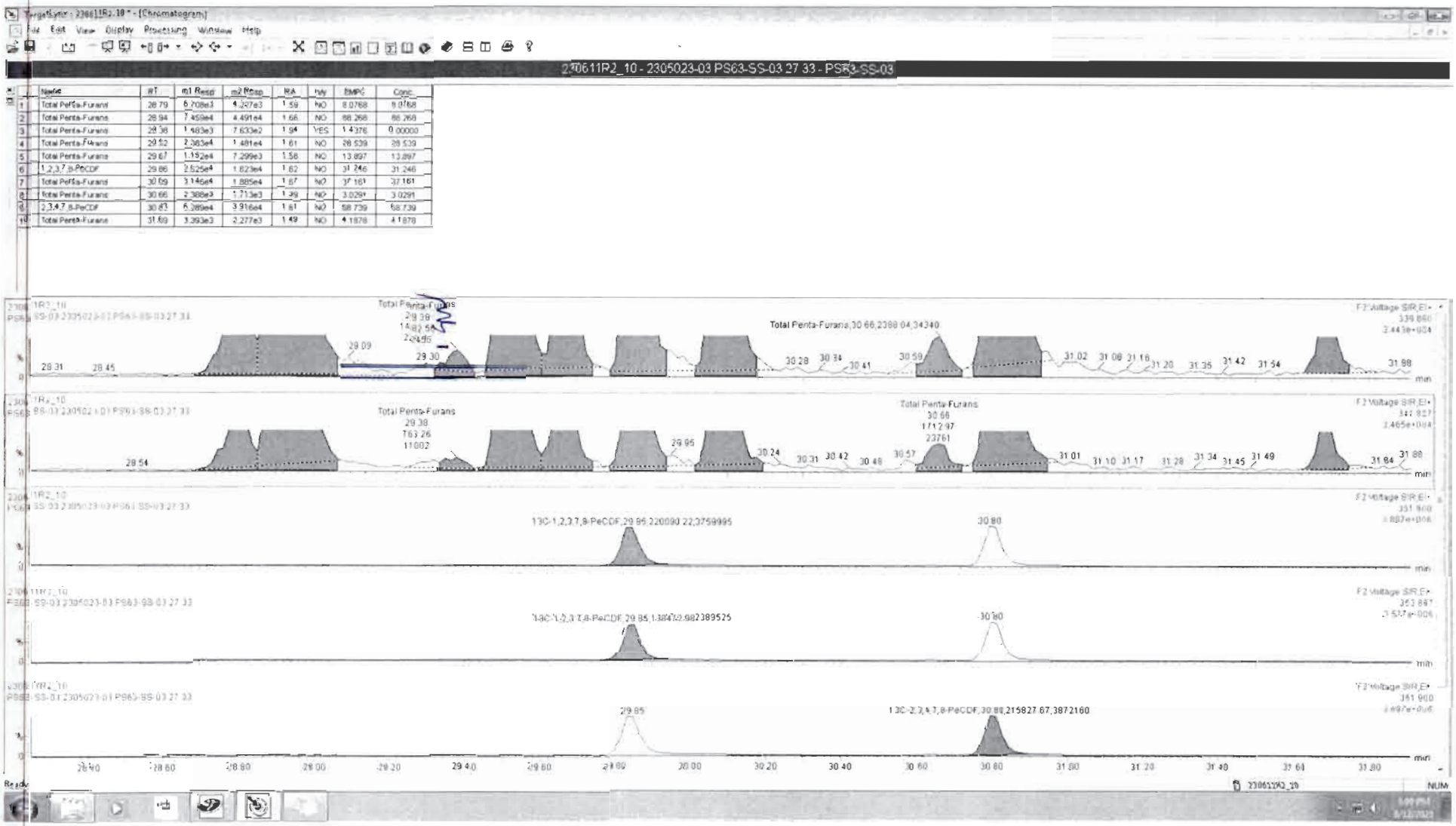


13C-1,2,3,7,8-PeCDF



DPE2





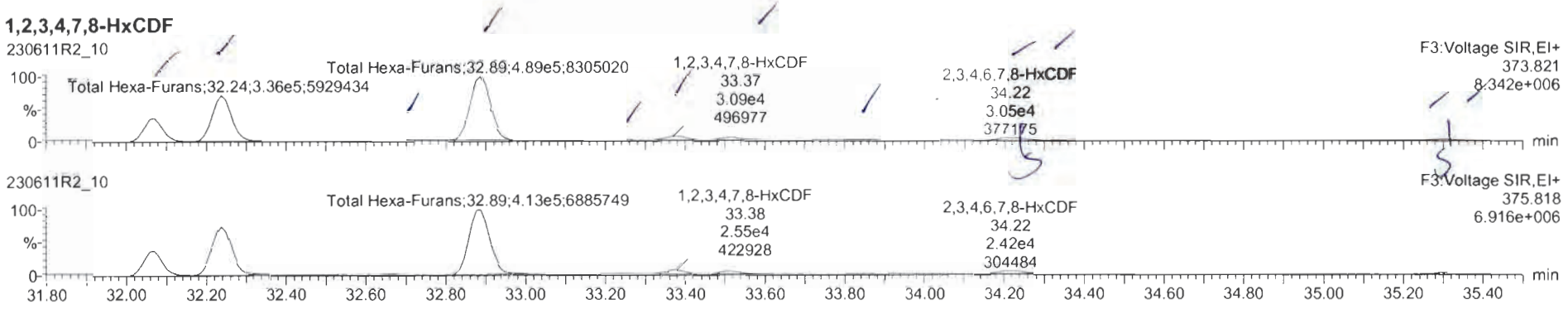
	Name	RT	m1 Resp	m2 Resp	RA	rwy	RMPC	Conc
1	Total Perta-Furans	28.79	6.708e3	4.227e3	1.59	NO	8.0768	8.0768
2	Total Penta-Furans	28.94	7.459e4	4.491e4	1.66	NO	88.268	88.268
3	Total Penta-Furans	29.38	1.483e3	7.633e2	1.94	YES	1.4376	0.00000
4	Total Penta-Furans	29.52	2.363e4	1.481e4	1.61	NO	28.539	28.539
5	Total Penta-Furans	29.67	1.152e4	7.299e3	1.58	NO	13.897	13.897
6	1,2,3,7,8-PeCDF	29.86	2.525e4	1.623e4	1.62	NO	31.246	31.246
7	Total Perta-Furans	30.09	3.146e4	1.885e4	1.67	NO	37.161	37.161
8	Total Penta-Furans	30.66	2.388e3	1.713e3	1.39	NO	3.0291	3.0291
9	2,3,4,7,8-PeCDF	30.83	6.289e4	3.916e4	1.61	NO	68.739	68.739
10	Total Penta-Furans	31.69	3.393e3	2.277e3	1.49	NO	4.1878	4.1878

Dataset: Untitled

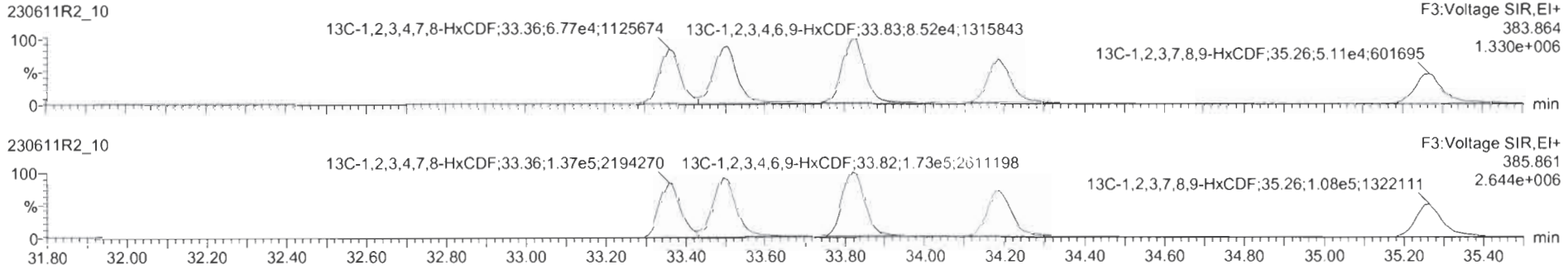
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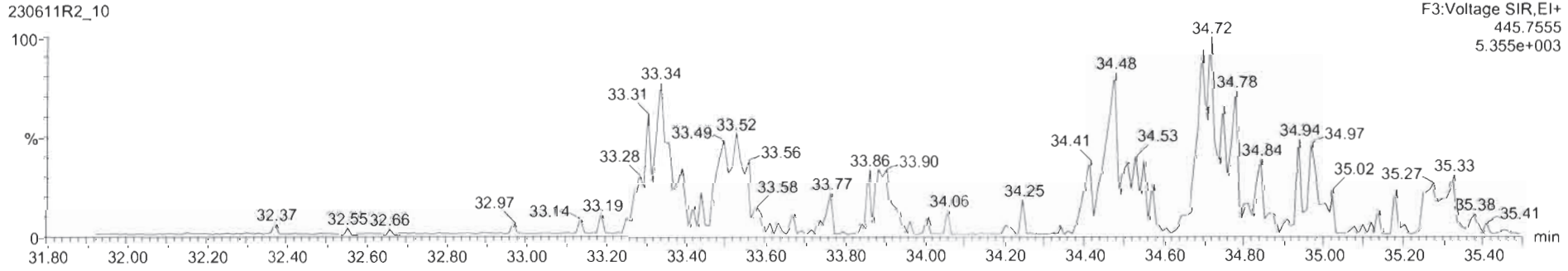
1,2,3,4,7,8-HxCDF

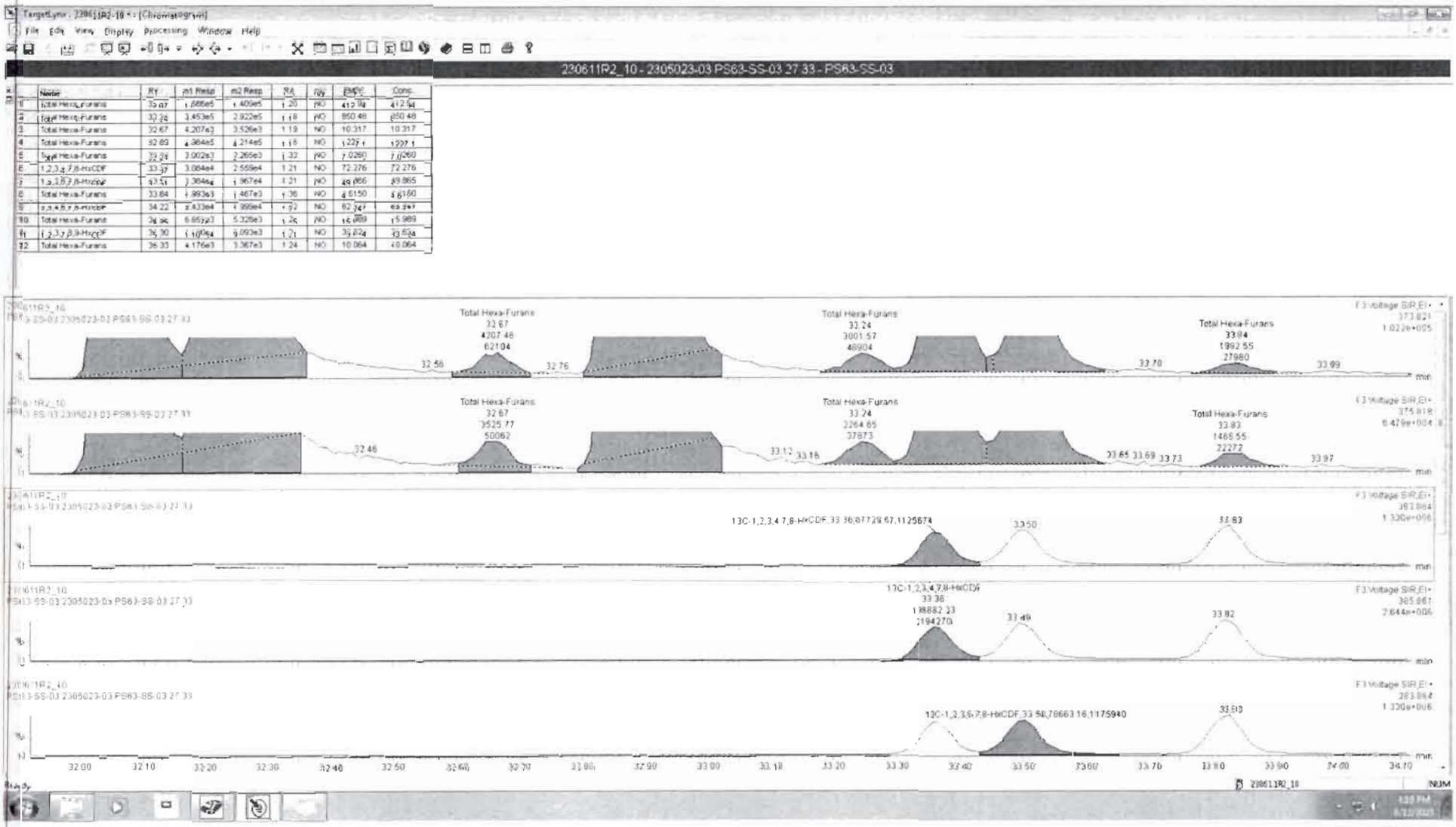


13C-1,2,3,4,7,8-HxCDF

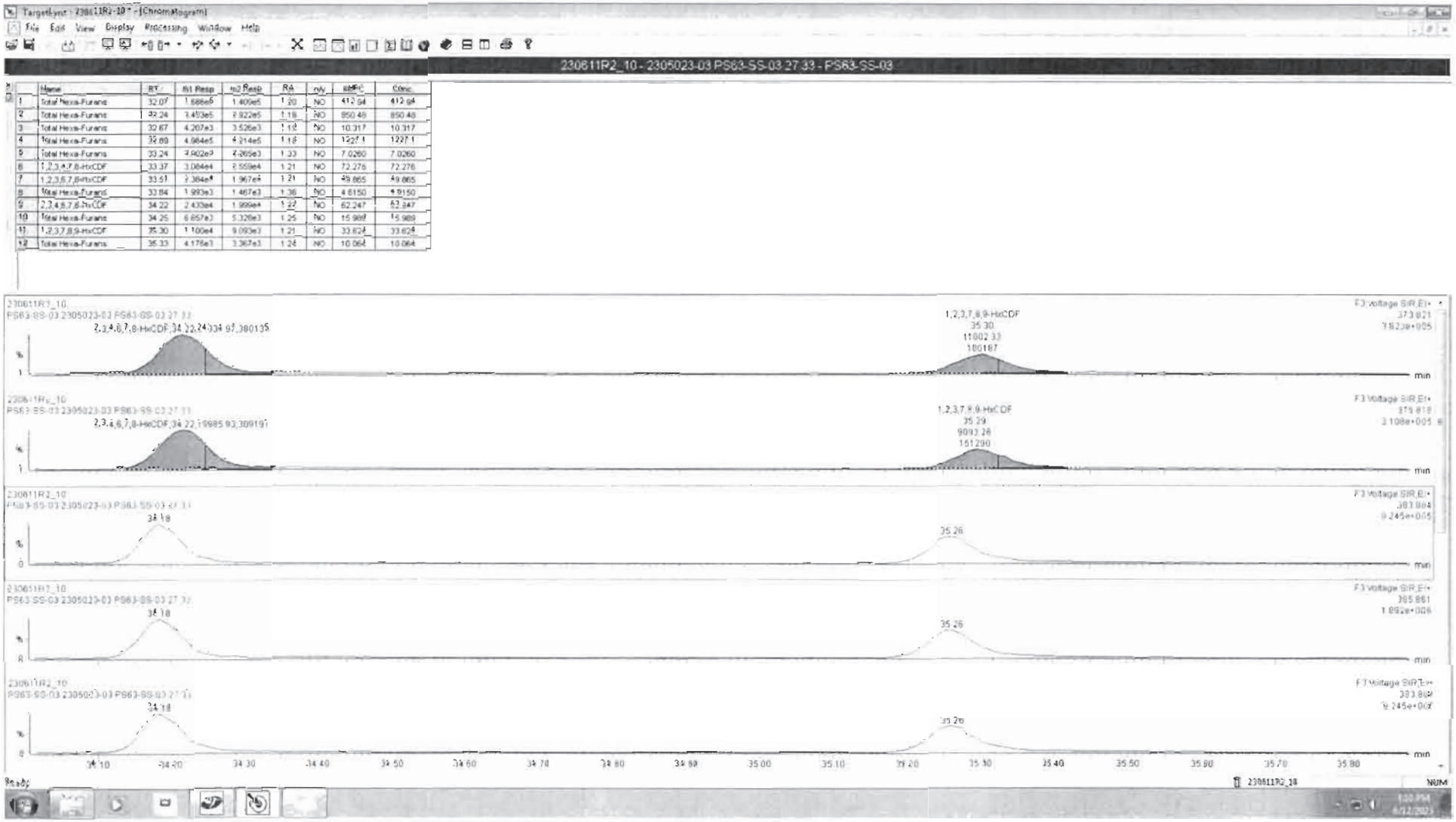


DPE3





	Name	RT	m1 Resp	m2 Resp	RA	ray	EMPC	Conc.
1	Total Hexa-Furans	32.67	1.686e5	1.409e5	1.20	NO	412.94	412.94
2	Total Hexa-Furans	32.76	3.453e5	2.922e5	1.18	NO	850.48	850.48
3	Total Hexa-Furans	32.67	4.207e3	3.526e3	1.19	NO	10.317	10.317
4	Total Hexa-Furans	32.89	4.884e5	4.214e5	1.16	NO	1227.1	1227.1
5	Total Hexa-Furans	32.84	3.002e3	2.265e3	1.33	NO	7.0260	7.0260
6	1,2,3,4,7,8-HxCDF	33.37	3.084e4	2.559e4	1.21	NO	72.276	72.276
7	1,2,3,6,7,8-HxCDF	33.51	3.864e4	1.967e4	1.21	NO	89.865	89.865
8	Total Hexa-Furans	33.84	1.993e3	1.467e3	1.36	NO	6.6150	6.6150
9	2,3,4,6,7,8-HxCDF	34.22	3.433e4	1.999e4	1.72	NO	82.347	82.347
10	Total Hexa-Furans	34.06	6.857e3	5.329e3	1.29	NO	15.989	15.989
11	1,2,3,7,8,9-HxCDF	35.30	5.105e4	4.093e3	1.21	NO	33.834	33.834
12	Total Hexa-Furans	36.33	4.176e3	3.367e3	1.24	NO	10.064	10.064



	Name	RT	Ah1 Resp	Ah2 Resp	RA	ratio	abnC	Conc
1	Total Hexa-Furans	32.07	1.688e5	1.409e5	1.20	NO	412.94	412.94
2	Total Hexa-Furans	32.24	3.453e5	2.922e5	1.18	NO	850.48	850.48
3	Total Hexa-Furans	32.67	4.207e3	3.526e3	1.19	NO	10.317	10.317
4	Total Hexa-Furans	32.69	4.984e5	4.214e5	1.18	NO	1227.1	1227.1
5	Total Hexa-Furans	33.24	3.902e3	2.935e3	1.33	NO	7.0260	7.0260
6	1,2,3,4,7,8-HxCDF	33.37	3.084e4	2.559e4	1.21	NO	72.276	72.276
7	1,2,3,6,7,8-HxCDF	33.51	2.384e4	1.967e4	1.21	NO	49.865	49.865
8	Total Hexa-Furans	33.84	1.993e3	1.467e3	1.36	NO	4.6150	4.6150
9	2,3,4,6,7,8-HxCDF	34.22	2.433e4	1.999e4	1.22	NO	62.247	62.247
10	Total Hexa-Furans	34.25	6.857e3	5.329e3	1.29	NO	15.989	15.989
11	1,2,3,7,8,9-HxCDF	35.30	1.100e4	9.093e3	1.21	NO	33.824	33.824
12	Total Hexa-Furans	35.33	4.176e3	3.367e3	1.24	NO	10.064	10.064

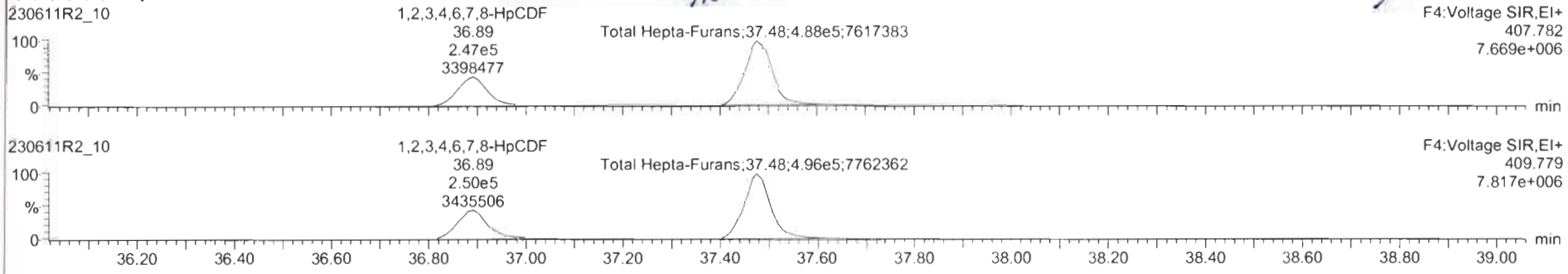
Enthalpy Analytical EDH VG-12

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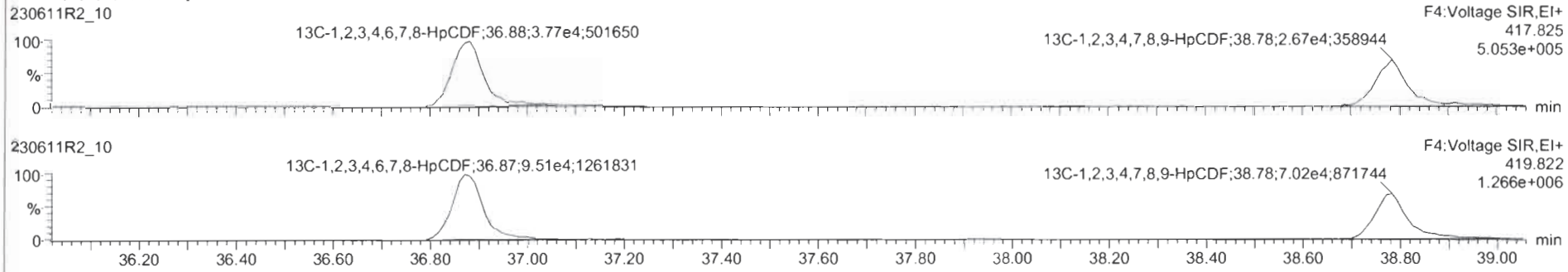
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_10, Date: 11-Jun-2023, Time: 19:47:22, ID: 2305023-03 PS63-SS-03 27.33, Description: PS63-SS-03

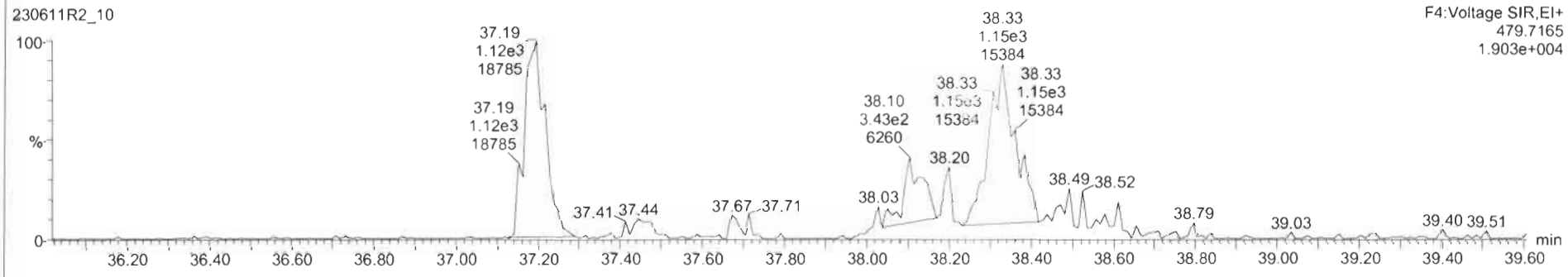
1,2,3,4,6,7,8-HpCDF

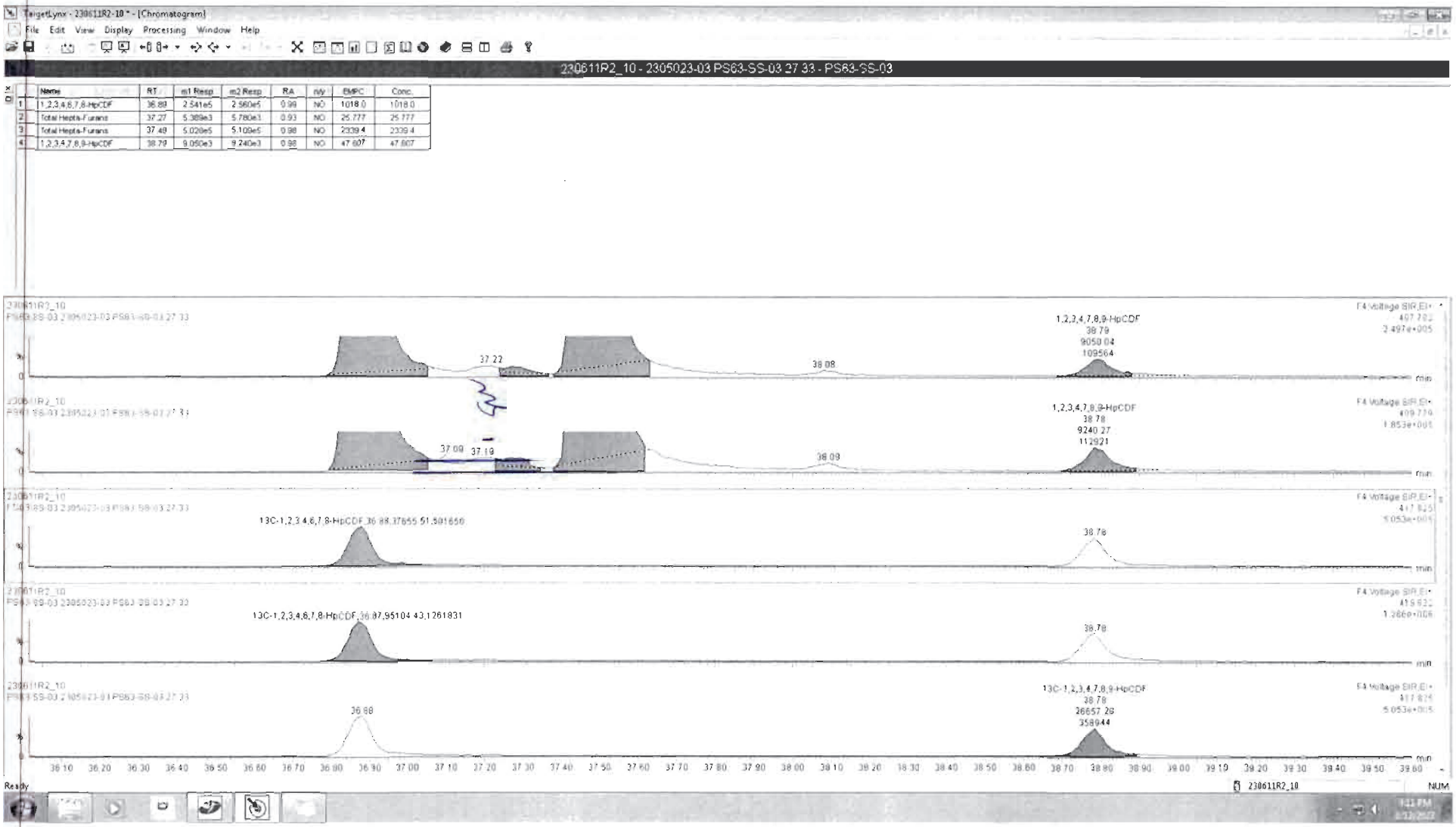


13C-1,2,3,4,6,7,8-HpCDF



DPE4



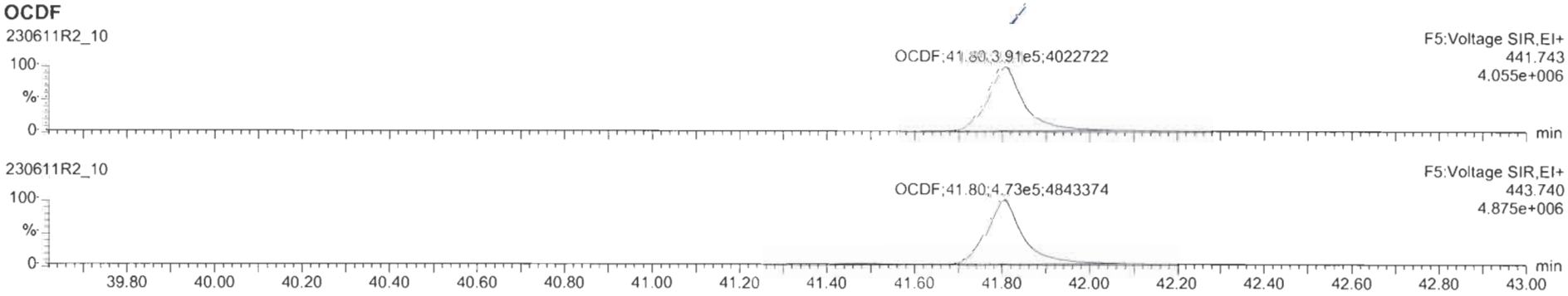

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230611R2_10 - 2305023-03 PS63-SS-03 27 33 - PS63-SS-03
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Total Hepta-Furans 37.27 5.389e3 5.780e3 0.93 NO 25.777 25.777
Total Hepta-Furans 37.48 5.028e5 5.109e5 0.98 NO 2339.4 2339.4
1,2,3,4,7,8,9-HpCDF 38.79 9.050e3 9.240e3 0.98 NO 47.607 47.607
1,2,3,4,7,8,9-HpCDF
38.79
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37.22
38.08
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37.09
37.19
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38.78
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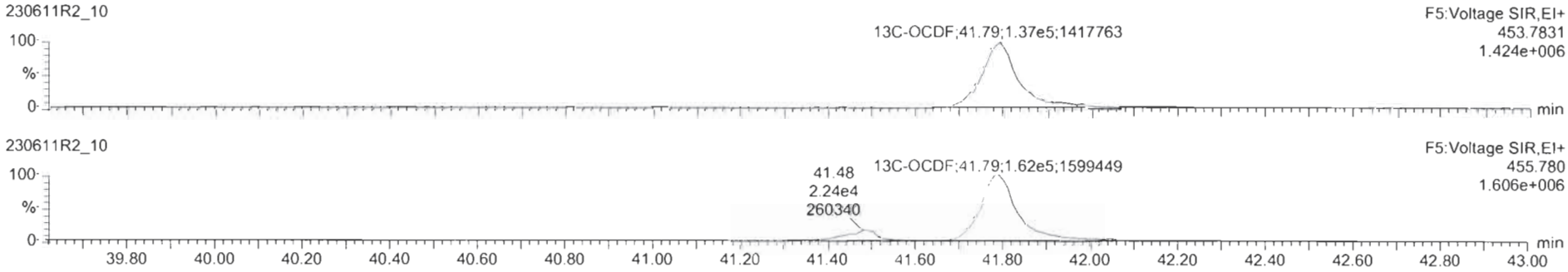
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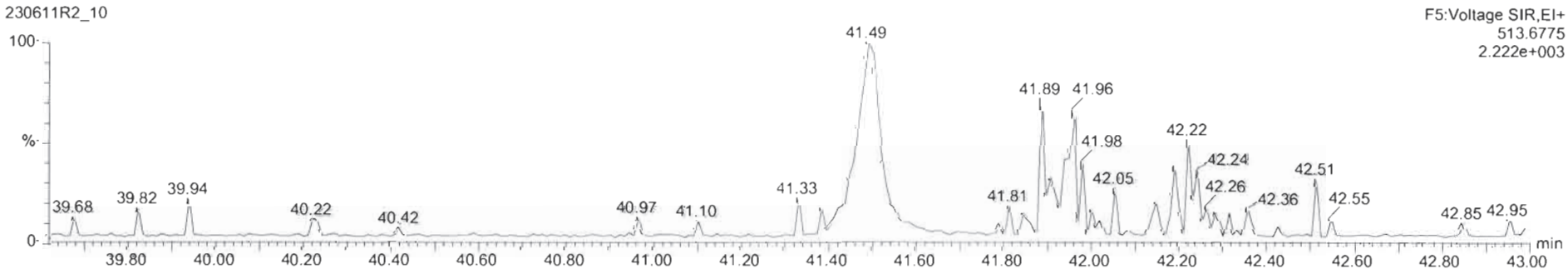
OCDF



13C-OCDF



DPE5

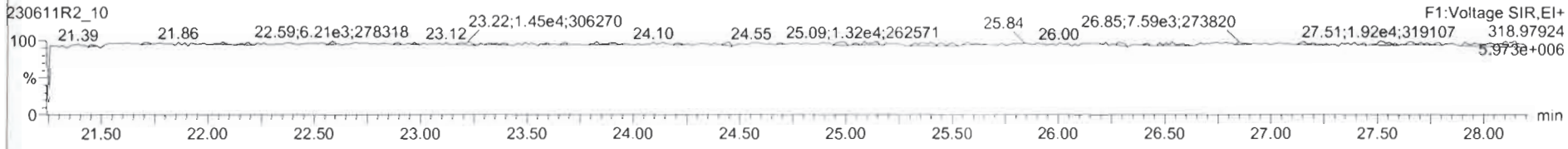


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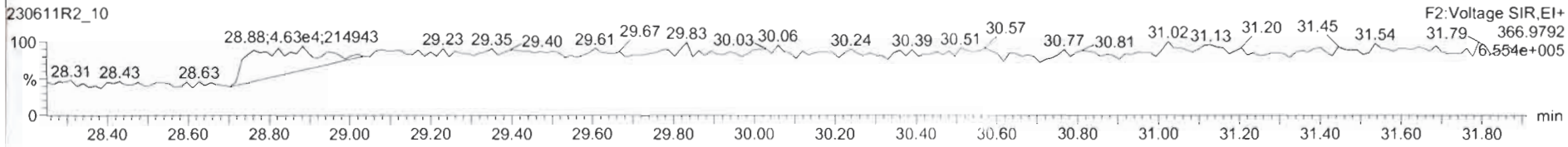
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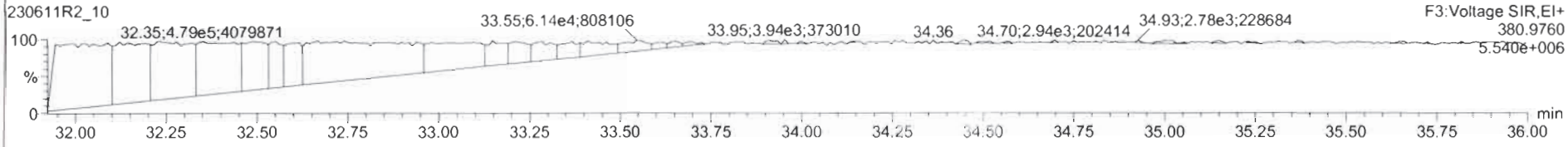
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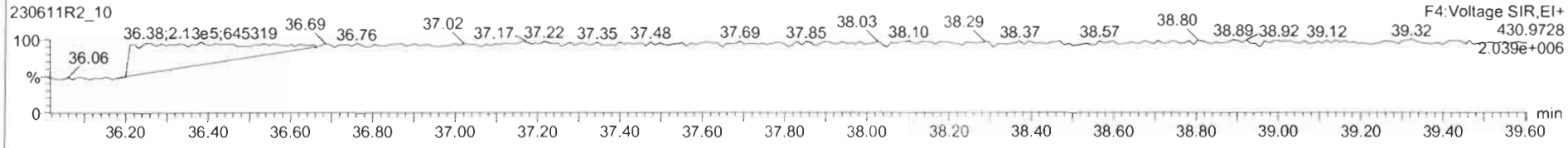
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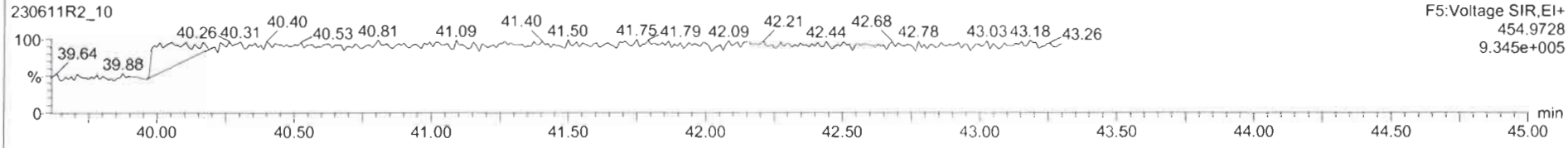
PFK3



PFK4



PFK5



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230614R1\230614R1-15.qld

Last Altered: Thursday, June 15, 2023 11:32:37 Pacific Daylight Time
Printed: Thursday, June 15, 2023 11:33:32 Pacific Daylight Time

E 06/26/23
ATM 06/15/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrf-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-12-23.cdb 13 Jun 2023 09:11:49

Name: 230614R1_15, Date: 15-Jun-2023, Time: 00:51:34, ID: 2305023-03@10X PS63-SS-03 27.33, Description: PS63-SS-03, Task: ST230614R1_1

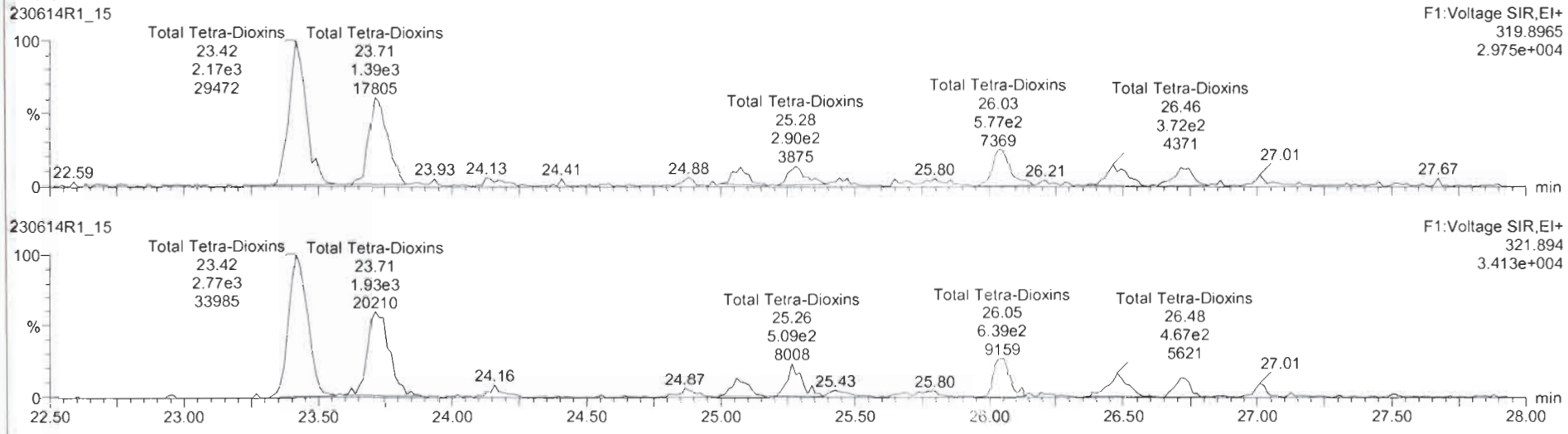
	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	1,2,3,4,6,7,8-HpCDD	1.55e6	1.04	NO	0.936	10.012	38.06	1.000	17900		42.5	17900
2	OCDD	8.86e6	0.90	NO	0.849	10.012	41.40	1.001	137310 *E		85.2	137000
3	13C-1,2,3,4,6,7,8-HpCDD	1.84e4	1.12	NO	0.550	10.012	38.05	1.126	156.51	78.3	4.42	
4	13C-OCDD	3.04e4	0.93	NO	0.482	10.012	41.37	1.225	294.17	73.6	7.23	
5	37Cl-2,3,7,8-TCDD	1.45e4			0.959	10.012	26.71	1.027	78.340	98.0	0.645	
6	13C-1,2,3,4,6,9-HxCDF	4.28e4	0.47	NO	1.00	10.012	33.79	1.000	199.76	100	5.24	

Dataset: Untitled

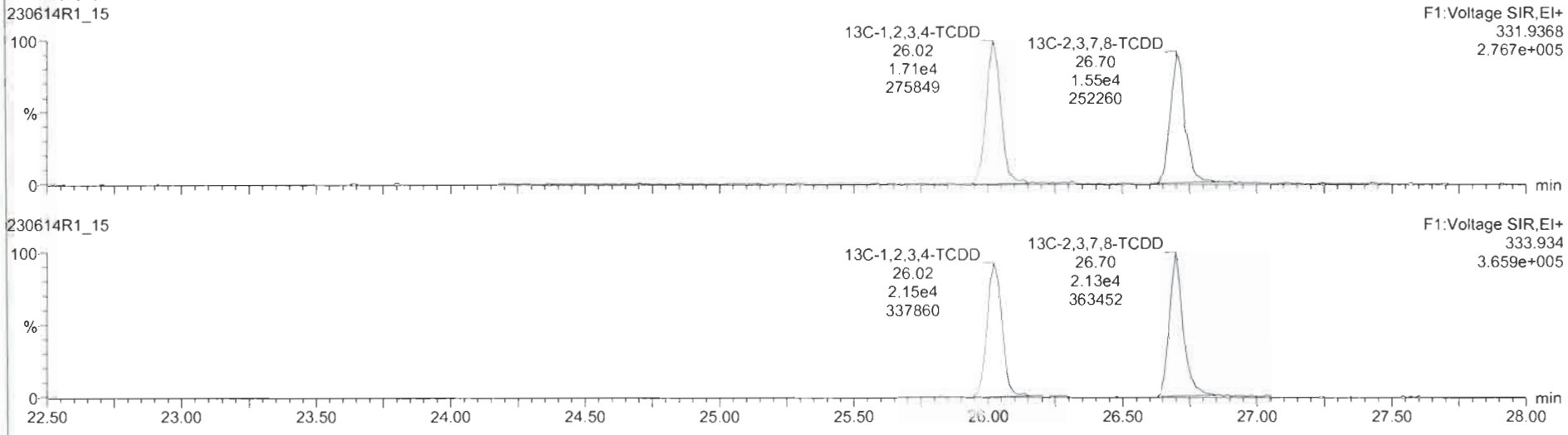
Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_15, Date: 15-Jun-2023, Time: 00:51:34, ID: 2305023-03@10X PS63-SS-03 27.33, Description: PS63-SS-03

2,3,7,8-TCDD



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

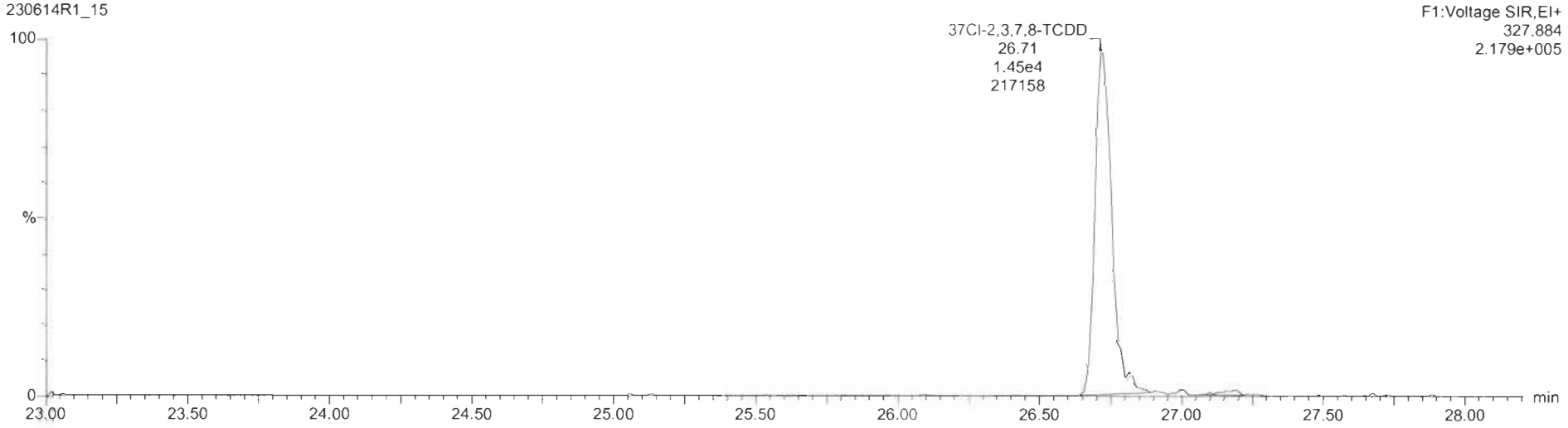


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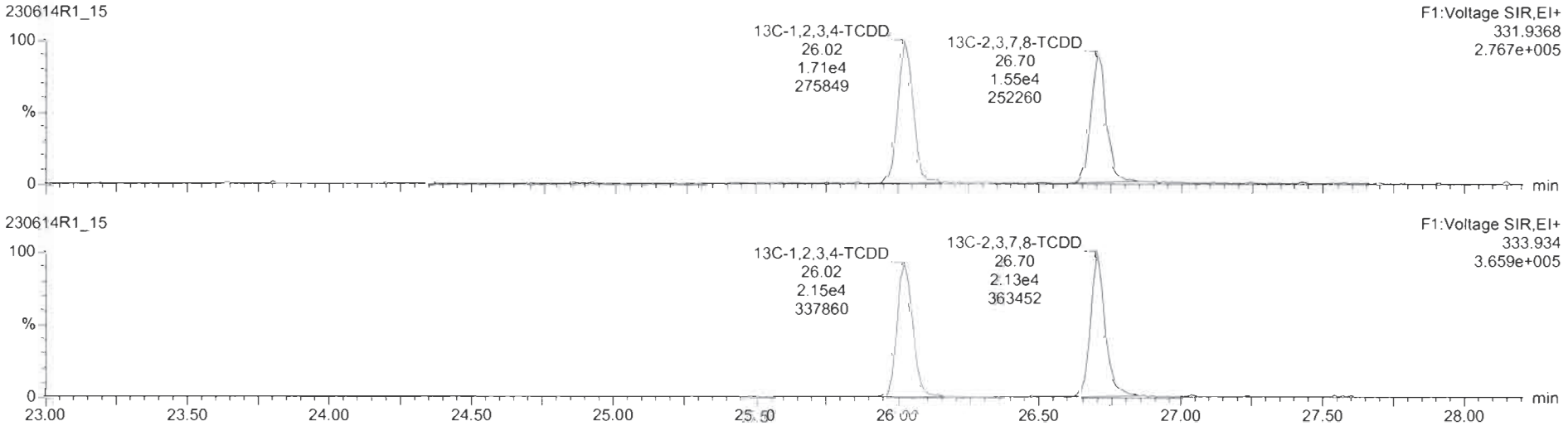
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37Cl-2,3,7,8-TCDD



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

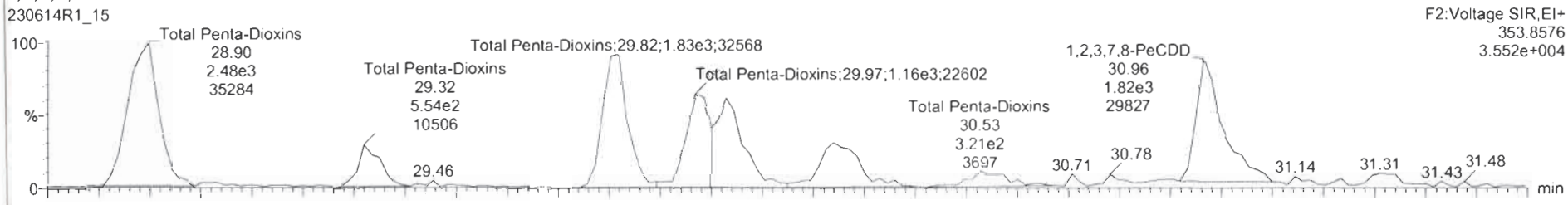


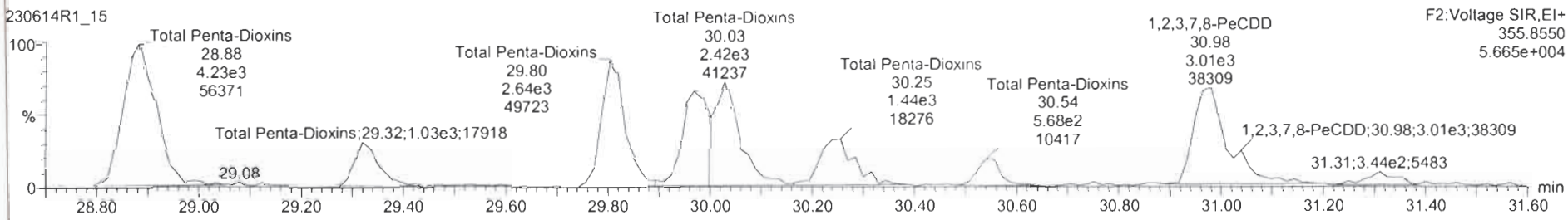
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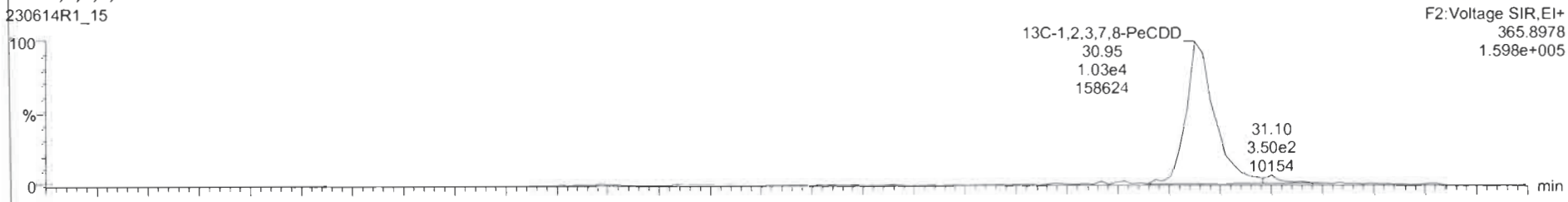
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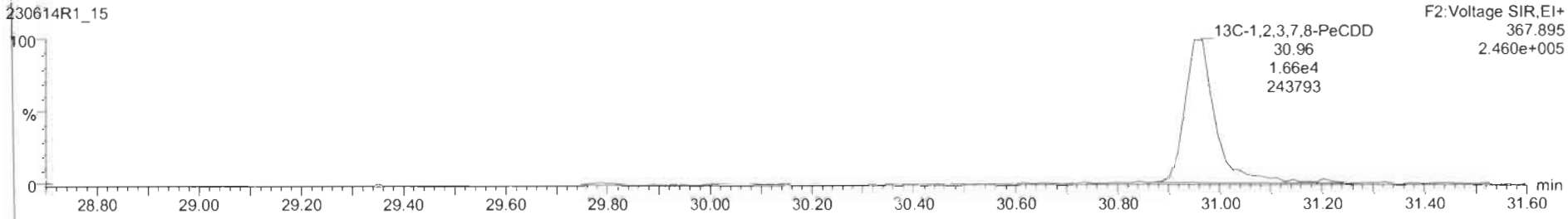
1,2,3,7,8-PeCDD





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



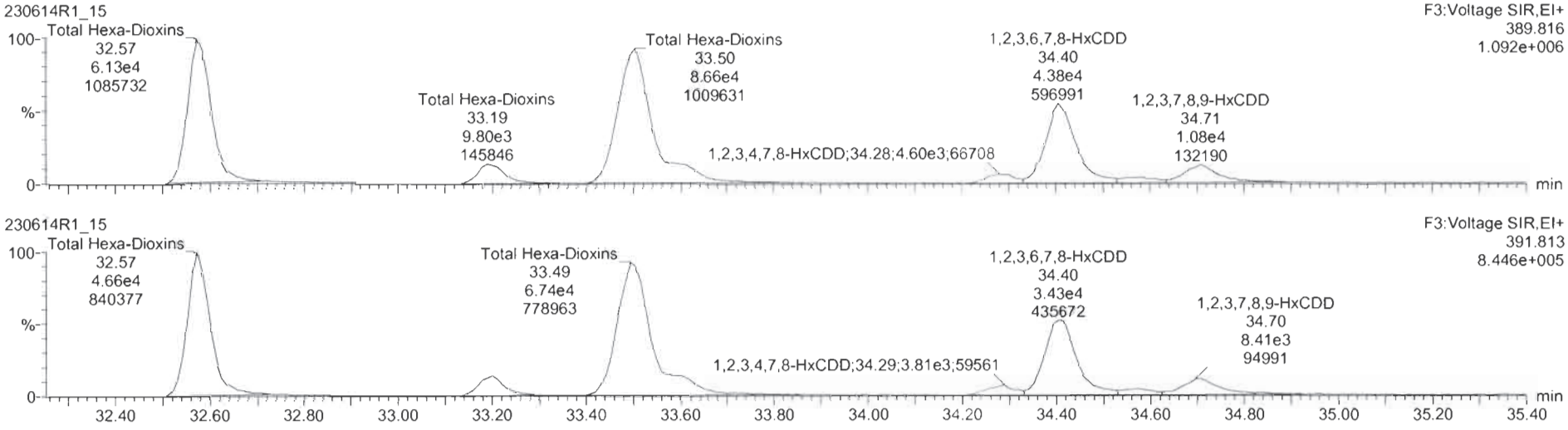


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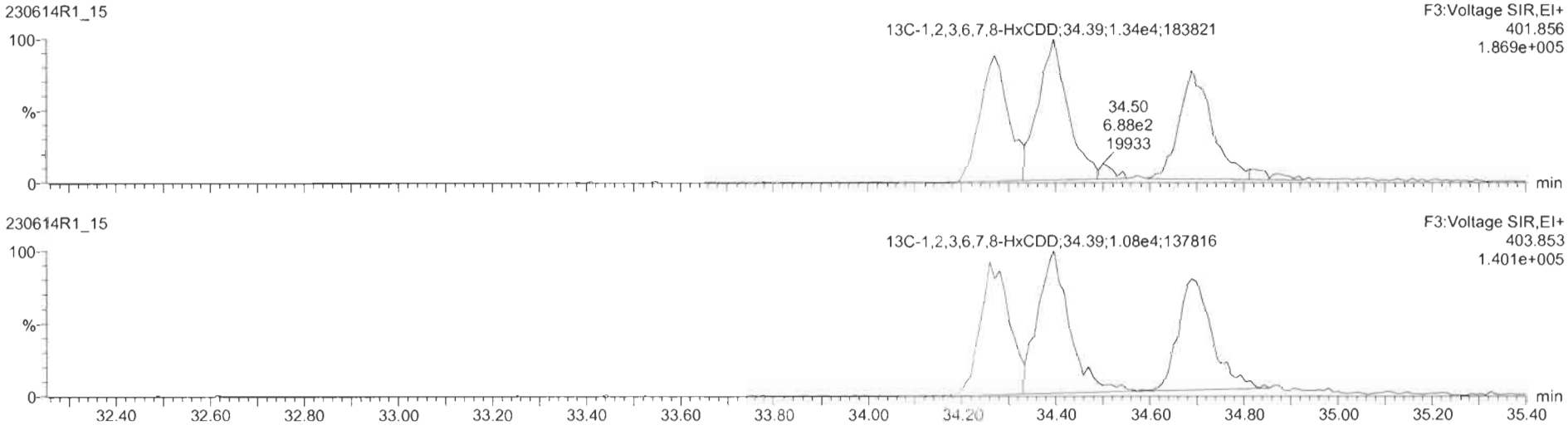
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Name: 230614R1_15, Date: 15-Jun-2023, Time: 00:51:34, ID: 2305023-03@10X PS63-SS-03 27.33, Description: PS63-SS-03

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



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

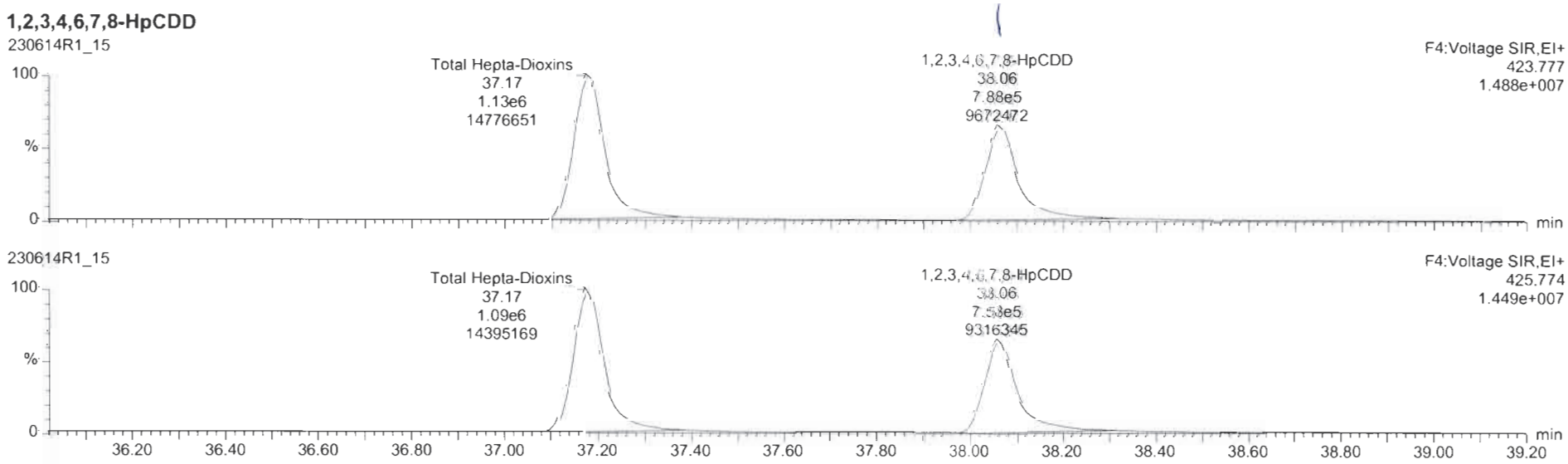


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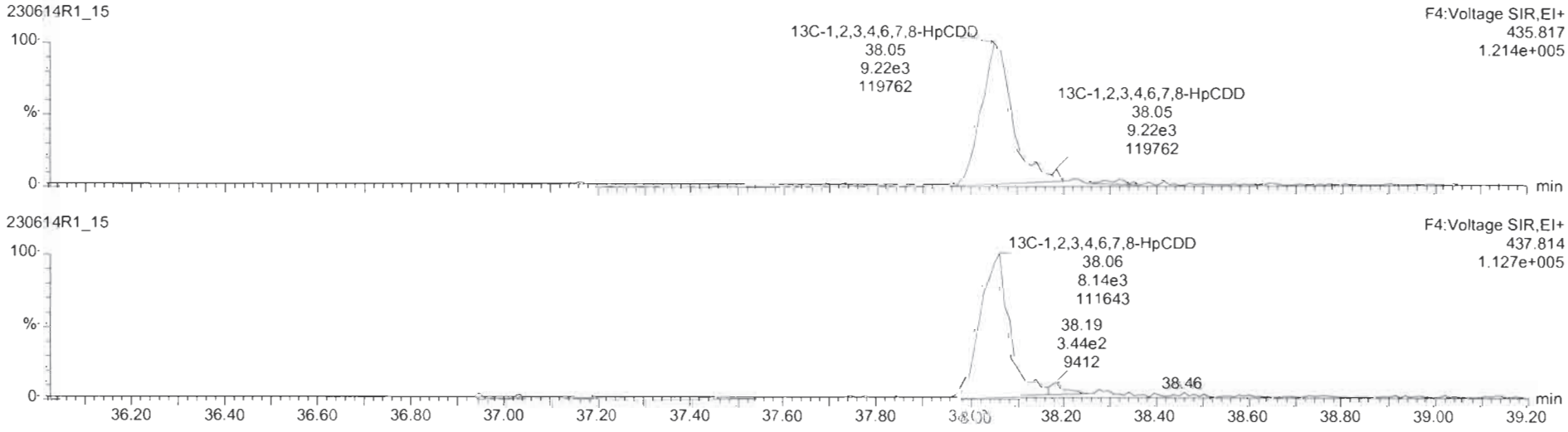
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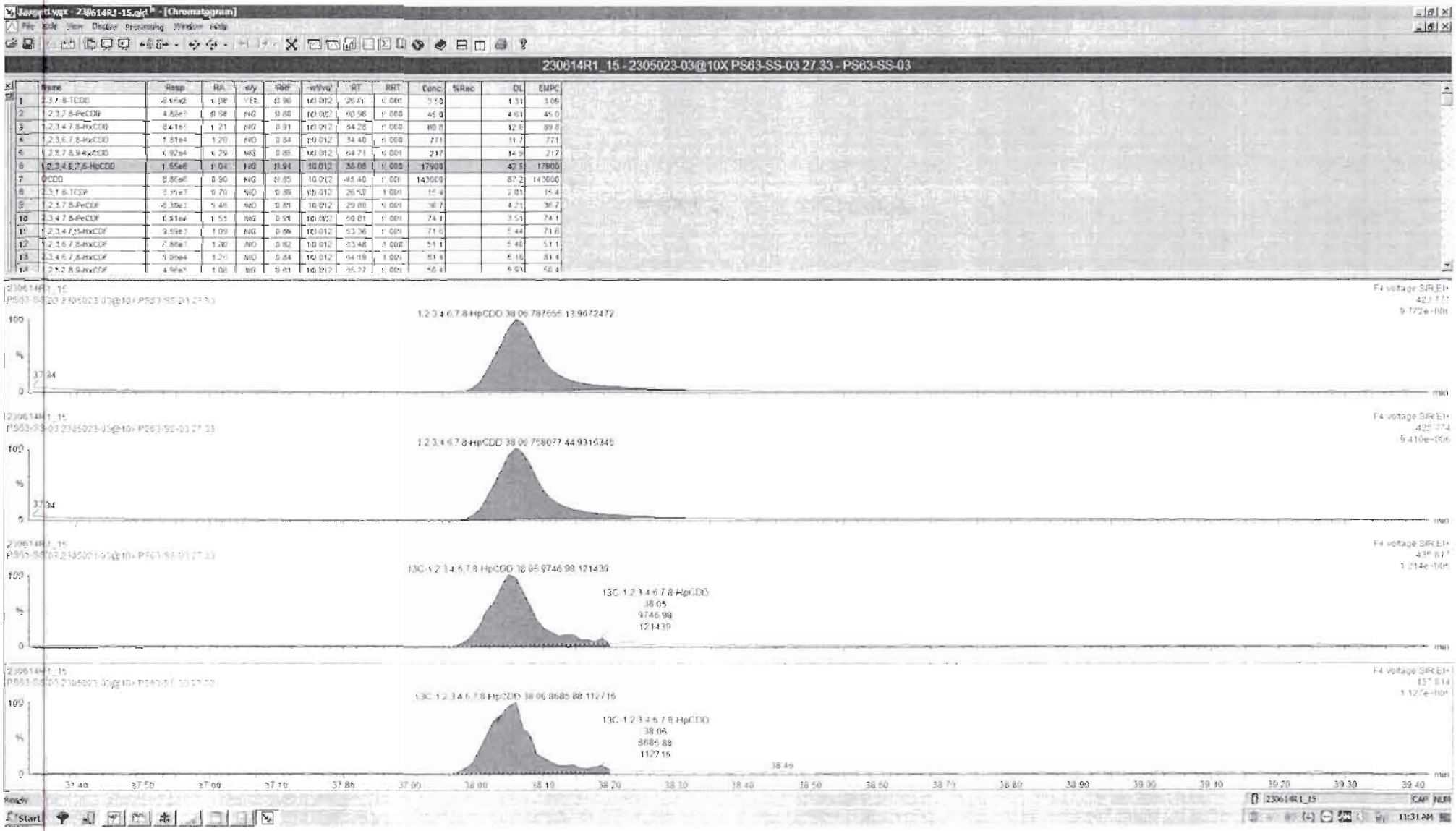
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1,2,3,4,6,7,8-HpCDD



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



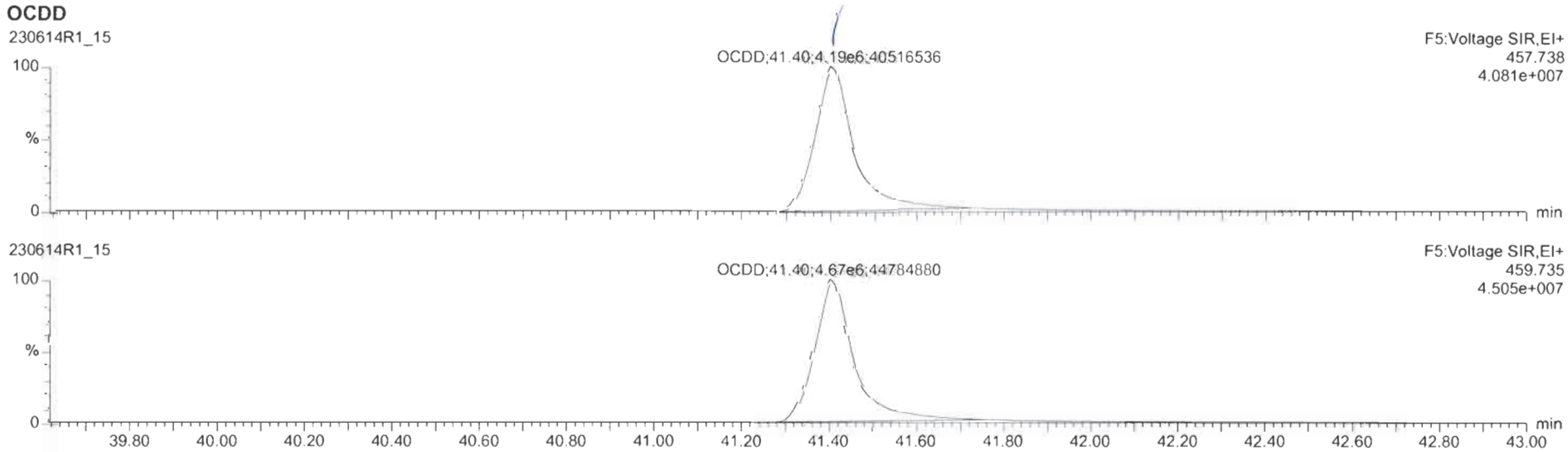

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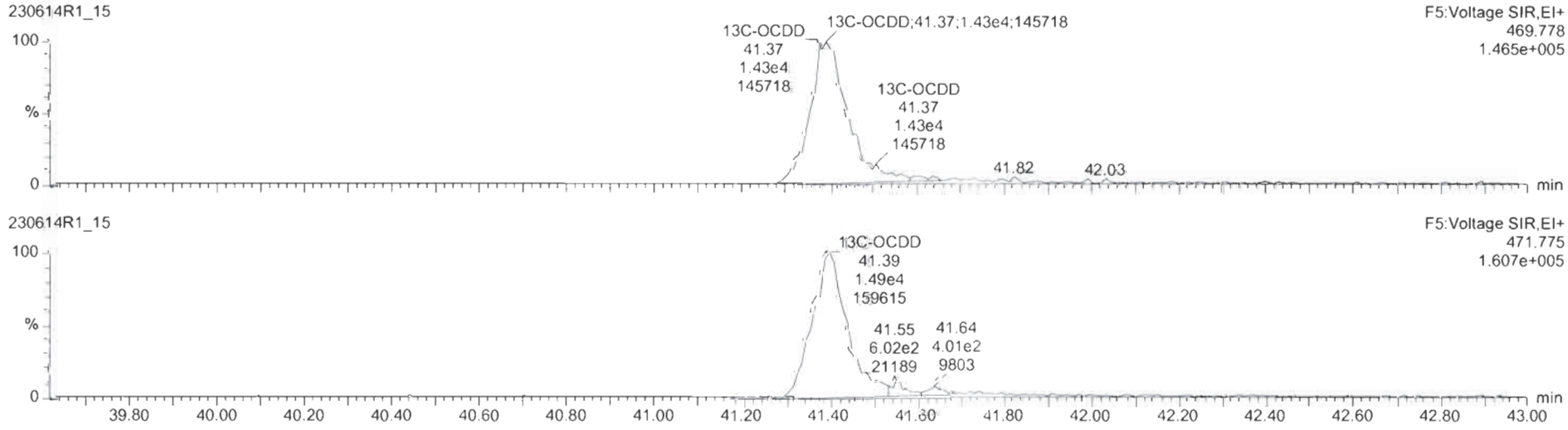
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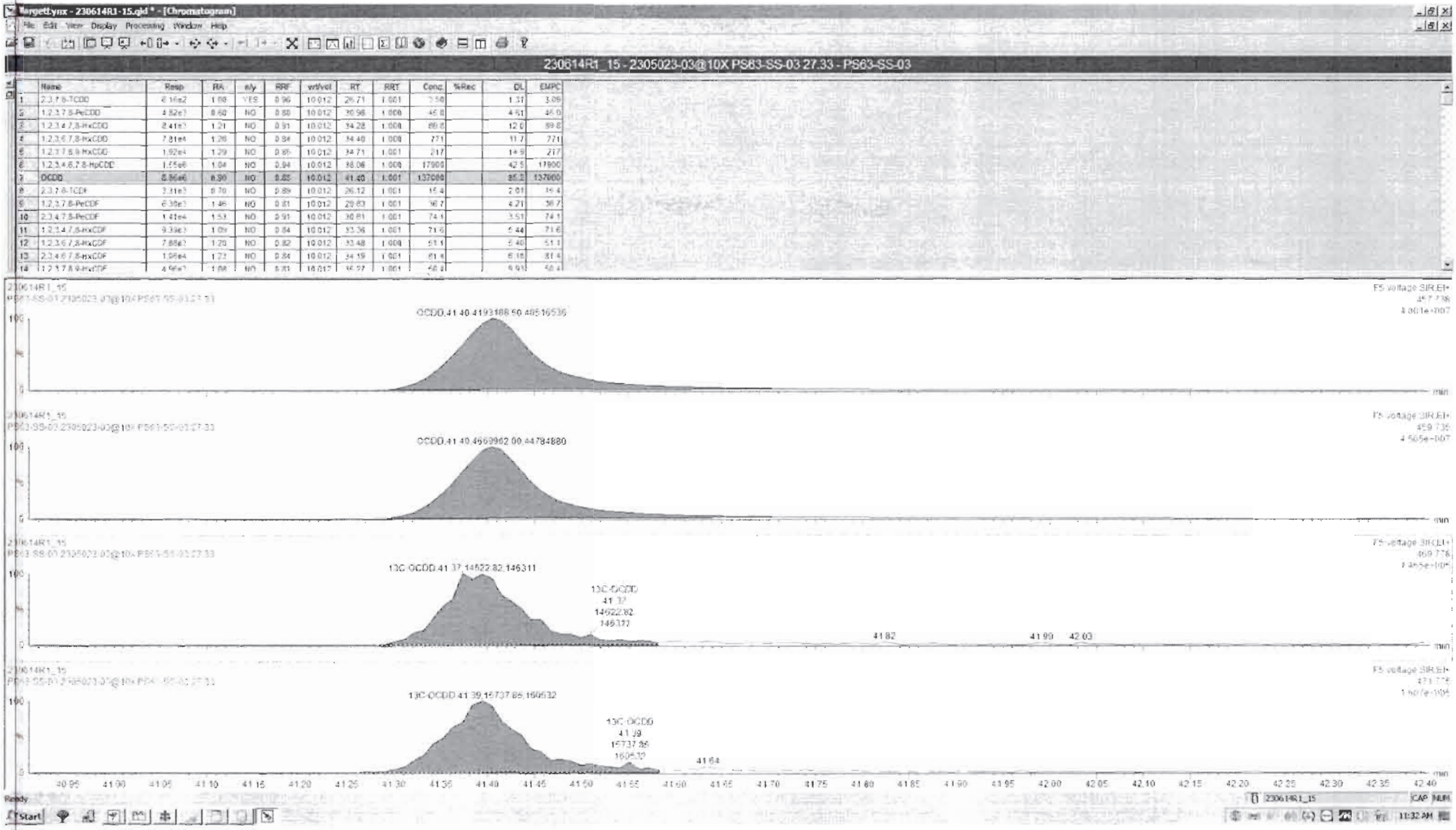
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OCDD



13C-OCDD





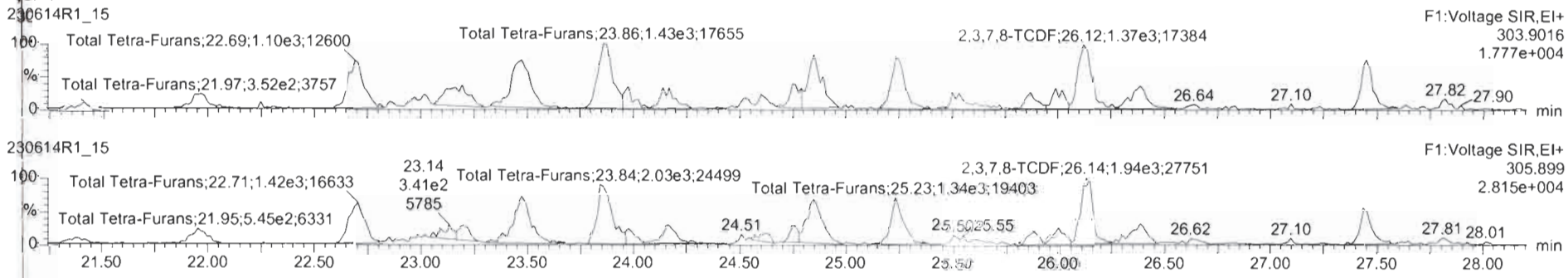
	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
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2	1,2,3,7,8-PeCDD	4.82e3	0.60	NO	0.80	10.012	30.98	1.000	45.8		4.61	46.0
3	1,2,3,4,7,8-HxCDD	8.41e3	1.21	NO	0.91	10.012	34.28	1.000	89.8		12.0	89.8
4	1,2,3,6,7,8-HxCDD	7.81e4	1.26	NO	0.84	10.012	34.40	1.000	771		11.7	771
5	1,2,3,7,8,9-HxCDD	1.92e4	1.29	NO	0.85	10.012	34.71	1.001	217		14.9	217
6	1,2,3,4,6,7,8-HpCDD	1.55e6	1.04	NO	0.94	10.012	38.06	1.000	17900		42.5	17900
7	OCDD	8.86e6	0.90	NO	0.85	10.012	41.40	1.001	137000		85.2	137000
8	2,3,7,8-TCDF	2.31e3	0.70	NO	0.89	10.012	26.12	1.001	15.4		2.01	15.4
9	1,2,3,7,8-PeCDF	6.38e3	1.46	NO	0.81	10.012	29.83	1.001	36.7		4.21	36.7
10	2,3,4,7,8-PeCDF	1.41e4	1.53	NO	0.91	10.012	30.81	1.001	74.1		3.51	74.1
11	1,2,3,4,7,8-HxCDF	9.39e3	1.09	NO	0.84	10.012	33.36	1.001	71.6		6.44	71.6
12	1,2,3,6,7,8-HxCDF	7.88e3	1.29	NO	0.82	10.012	33.48	1.000	51.1		6.40	51.1
13	2,3,4,6,7,8-HxCDF	1.06e4	1.23	NO	0.84	10.012	34.19	1.001	81.4		6.18	81.4
14	1,2,3,7,8,9-HxCDF	4.96e3	1.08	NO	0.81	10.012	36.27	1.001	50.4		9.93	50.4

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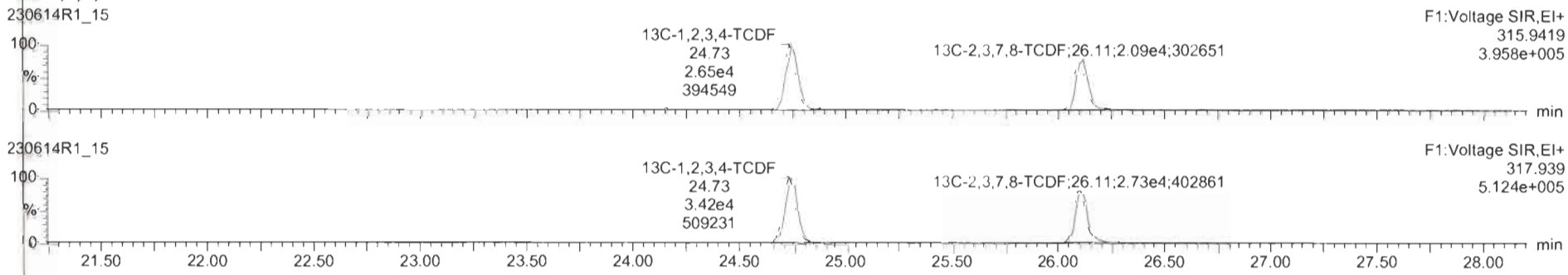
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Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_15, Date: 15-Jun-2023, Time: 00:51:34, ID: 2305023-03@10X PS63-SS-03 27.33, Description: PS63-SS-03

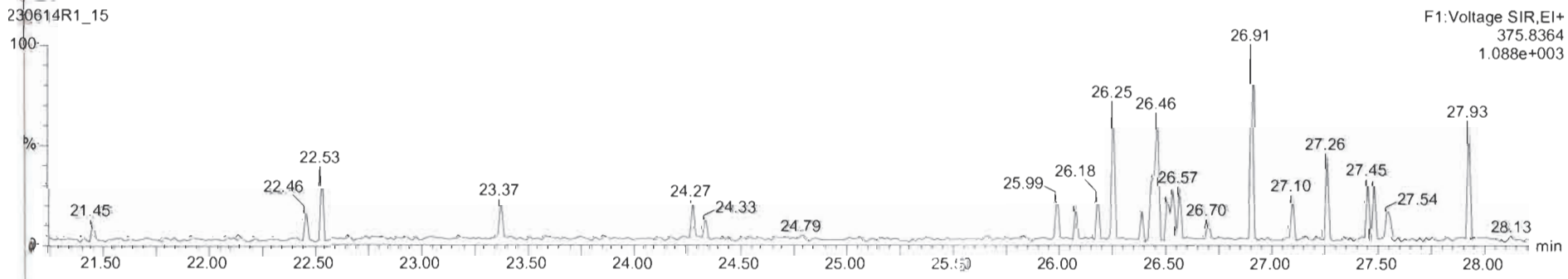
2,3,7,8-TCDF



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



DPE1

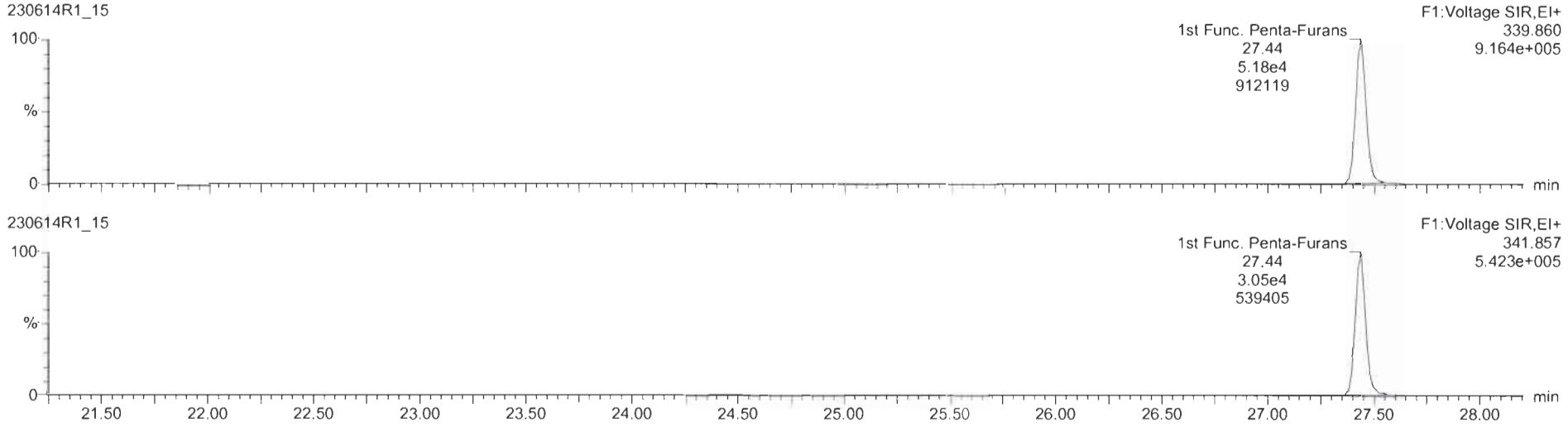


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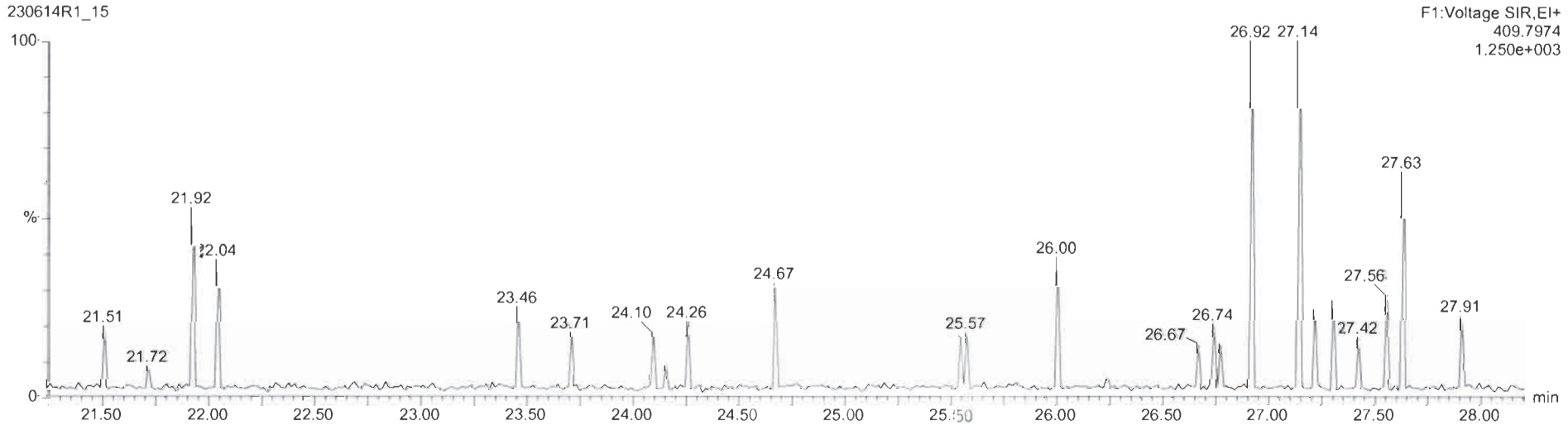
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1st Func. Penta-Furans



DPE6

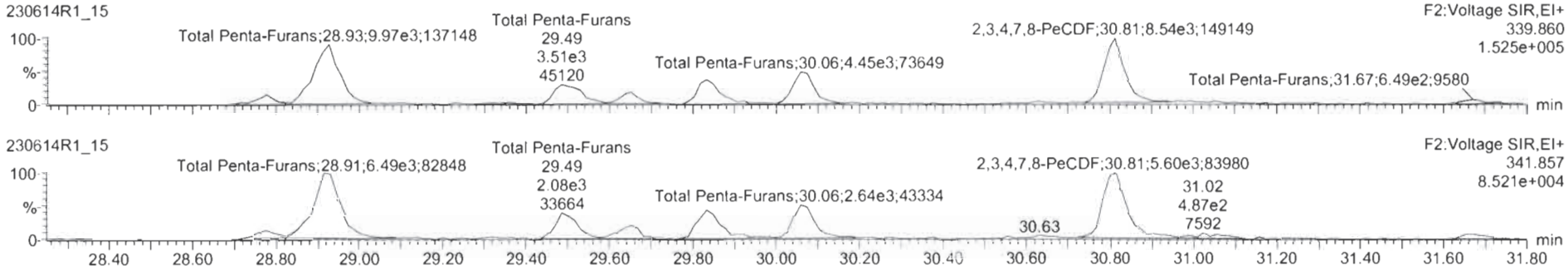


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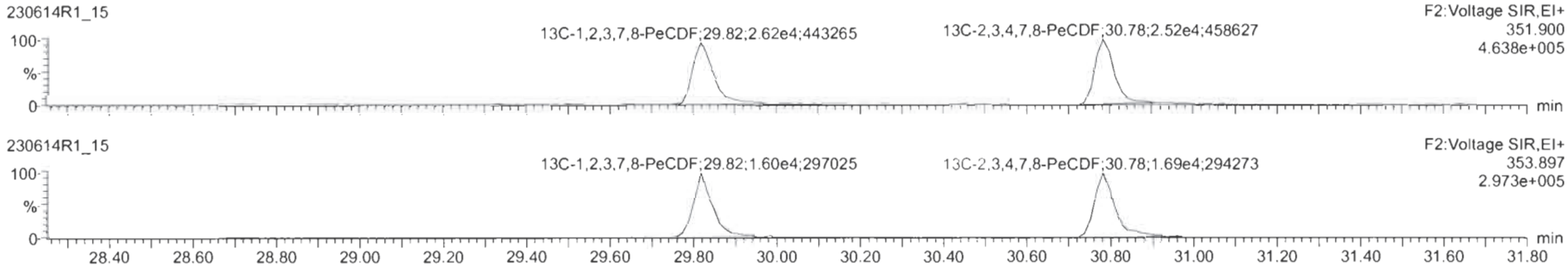
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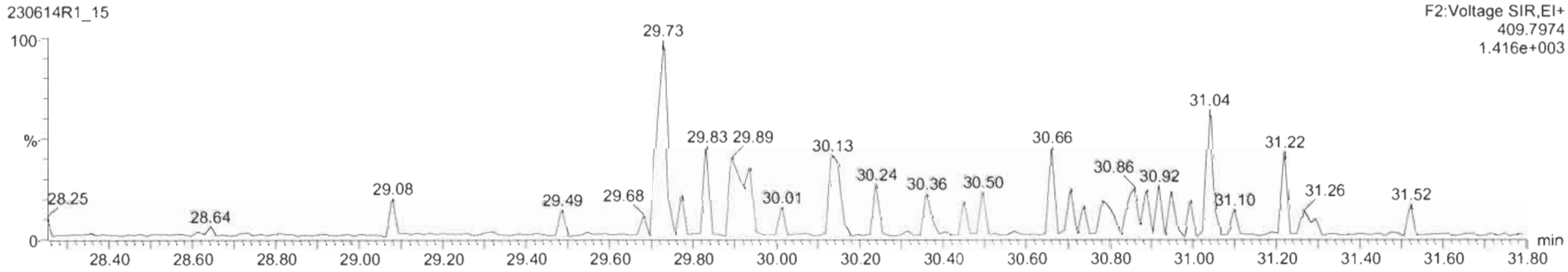
1,2,3,7,8-PeCDF



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



DPE2



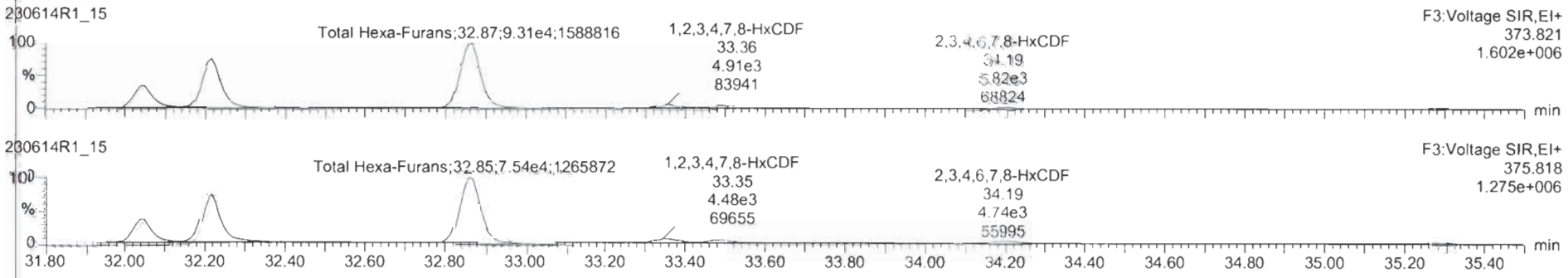
Enthalpy Analytical EDH VG-12

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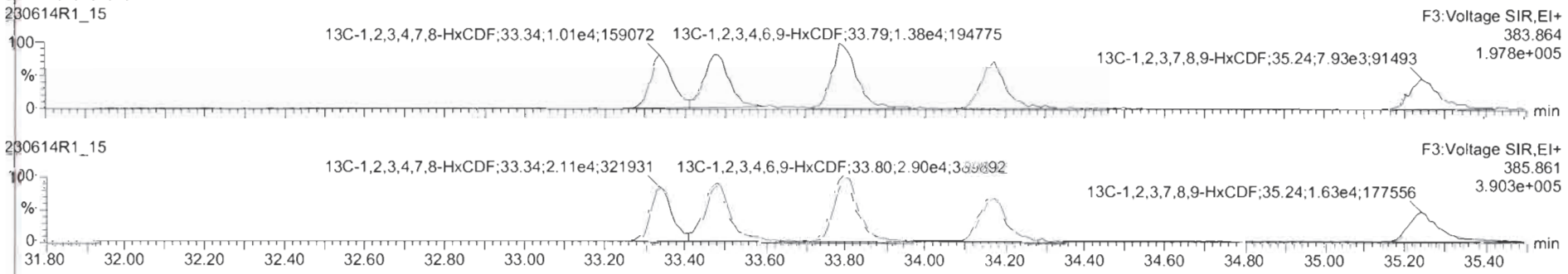
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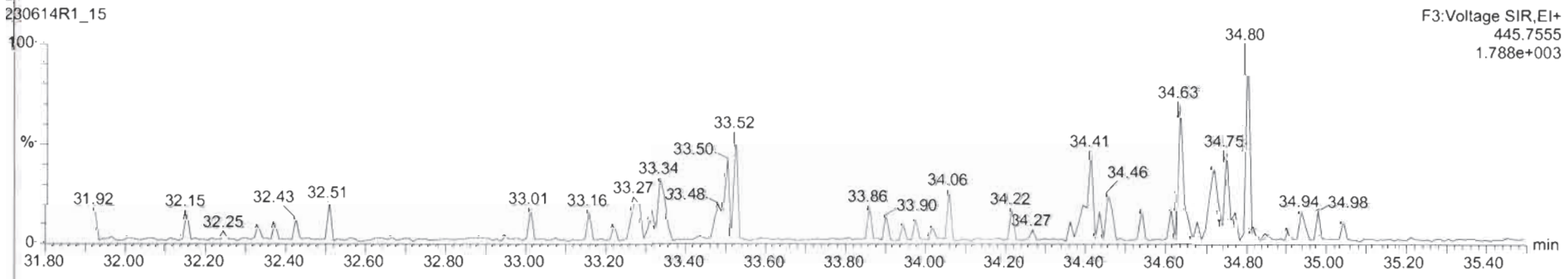
1,2,3,4,7,8-HxCDF



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



DPE3

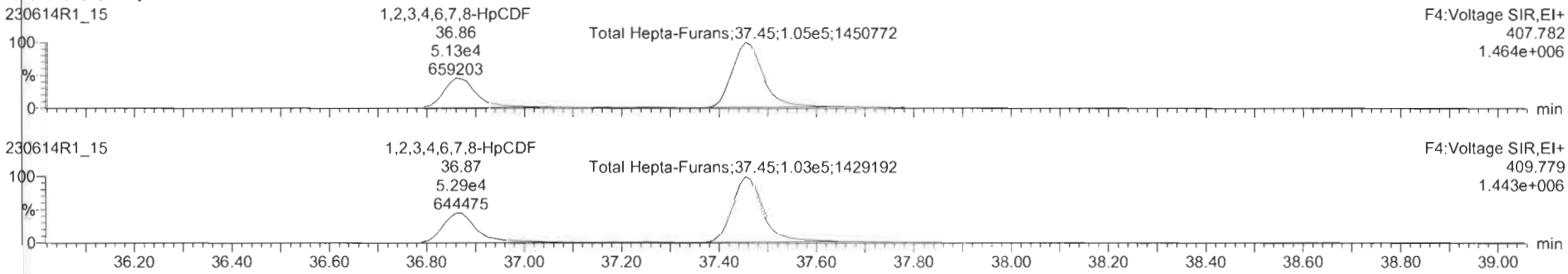


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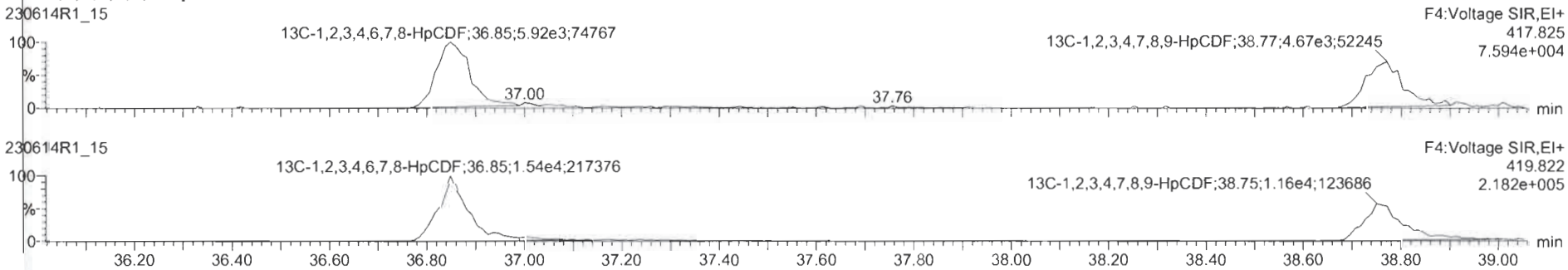
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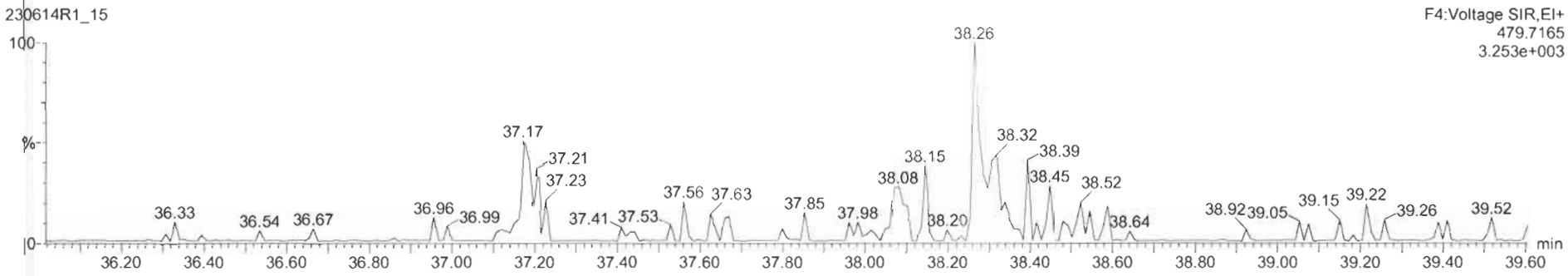
1,2,3,4,6,7,8-HpCDF



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



DPE4

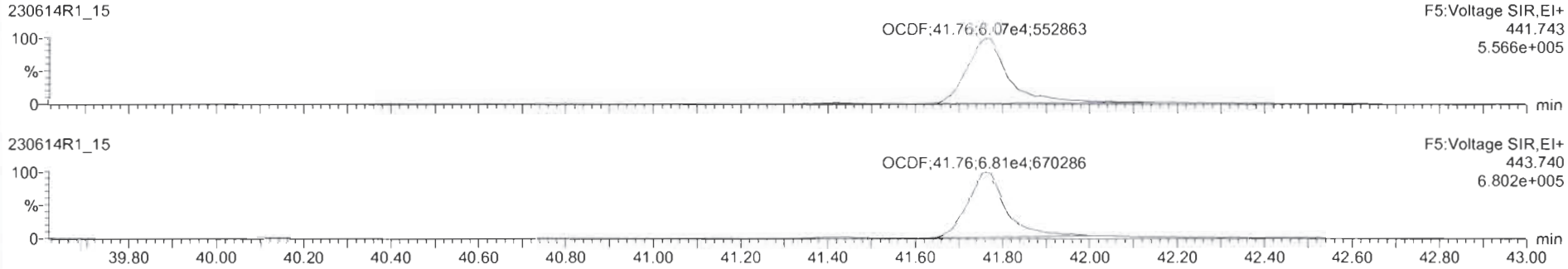


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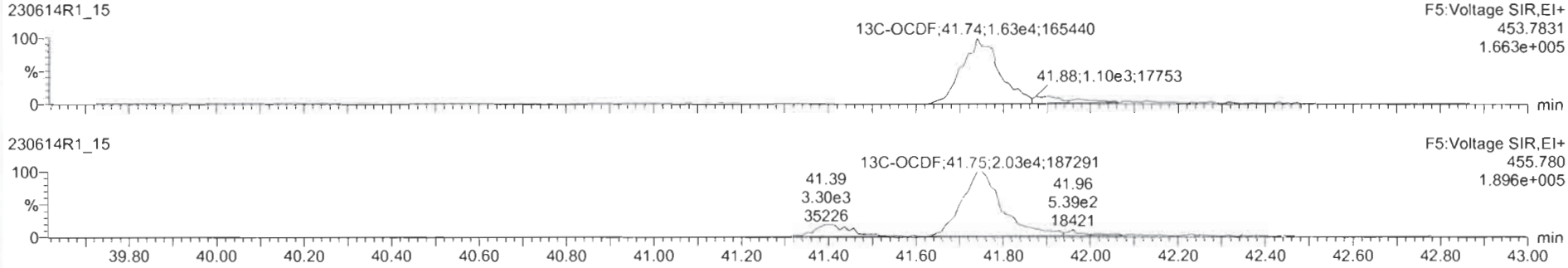
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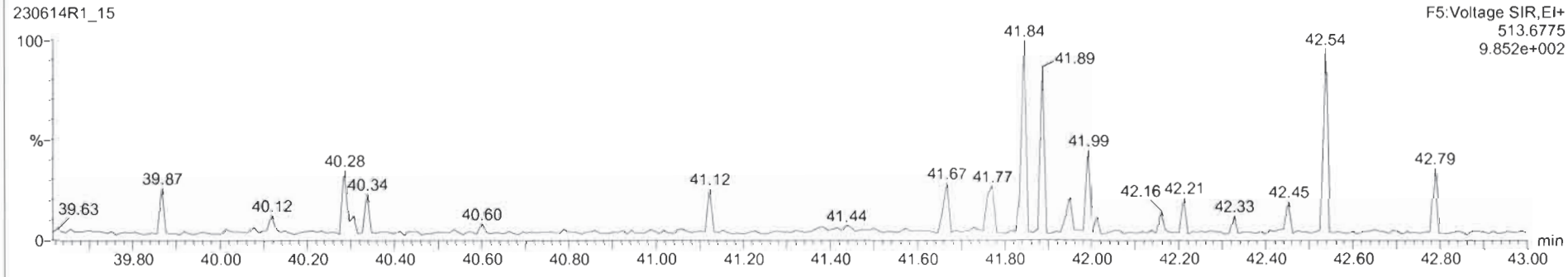
OCDF



13C-OCDF



DPE5



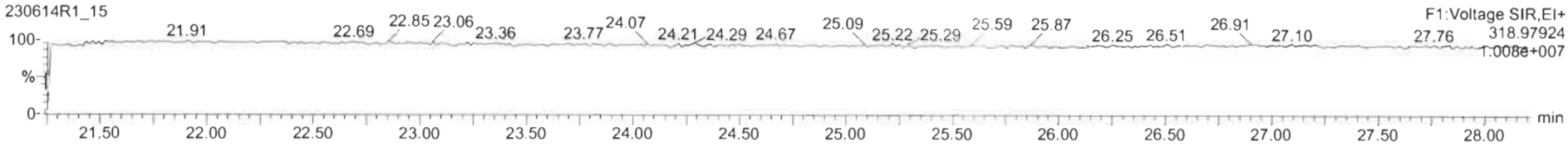
Enthalpy Analytical EDH VG-12

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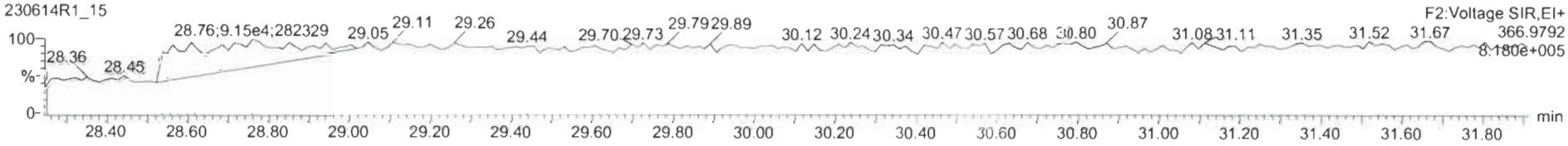
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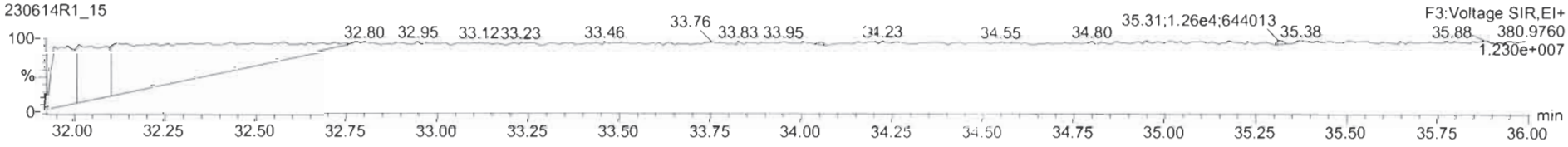
PFK1



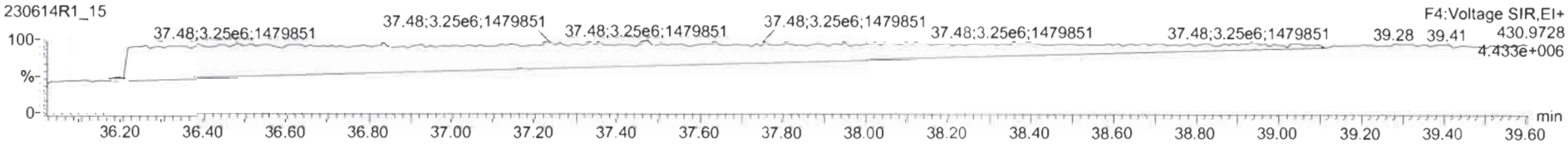
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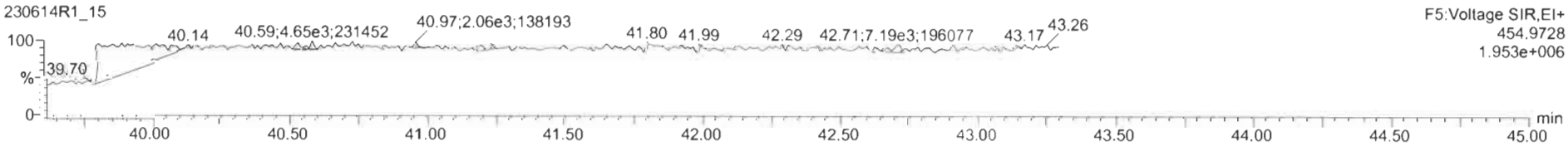
PFK3



PFK4



PFK5



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230623R4\230623R4-12.qld

Last Altered: Monday, June 26, 2023 10:24:23 Pacific Daylight Time
Printed: Monday, June 26, 2023 12:25:23 Pacific Daylight Time

JB 06/27/23

ATM 06/26/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-20-23.mdb 20 Jun 2023 11:15:18
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-21-23.cdb 22 Jun 2023 08:14:04

Name: 230623R4_12, Date: 24-Jun-2023, Time: 07:26:04, ID: 2305023-03RE1@5X PS63-SS-03 5.56, Description: PS63-SS-03, Task: ST230623R4_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	OCDD	1.36e7	0.88	NO	0.706	2.037	41.32	1.000	130990		23.2	131000
2	13C-OCDD	2.88e5	0.88	NO	0.568	2.037	41.30	1.224	2231.9	114	7.22	
3	37Cl-2,3,7,8-TCDD	1.33e5			0.905	2.037	26.62	1.027	465.48	119	0.480	
4	13C-1,2,3,4,6,9-HxCDF	2.23e5	0.47	NO	1.00	2.037	33.73	1.000	981.92	100	7.80	

Enthalpy Analytical EDH VG-12

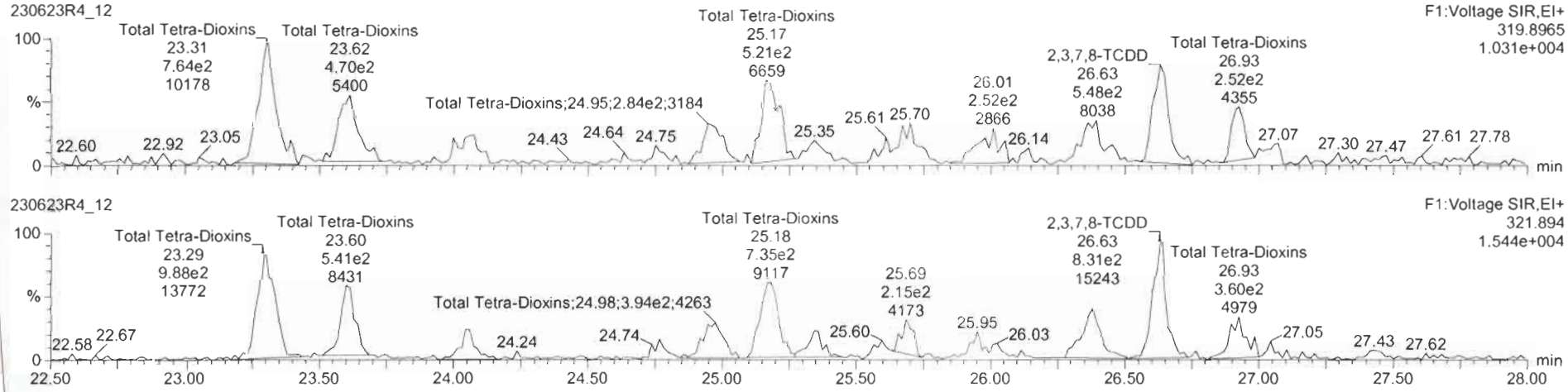
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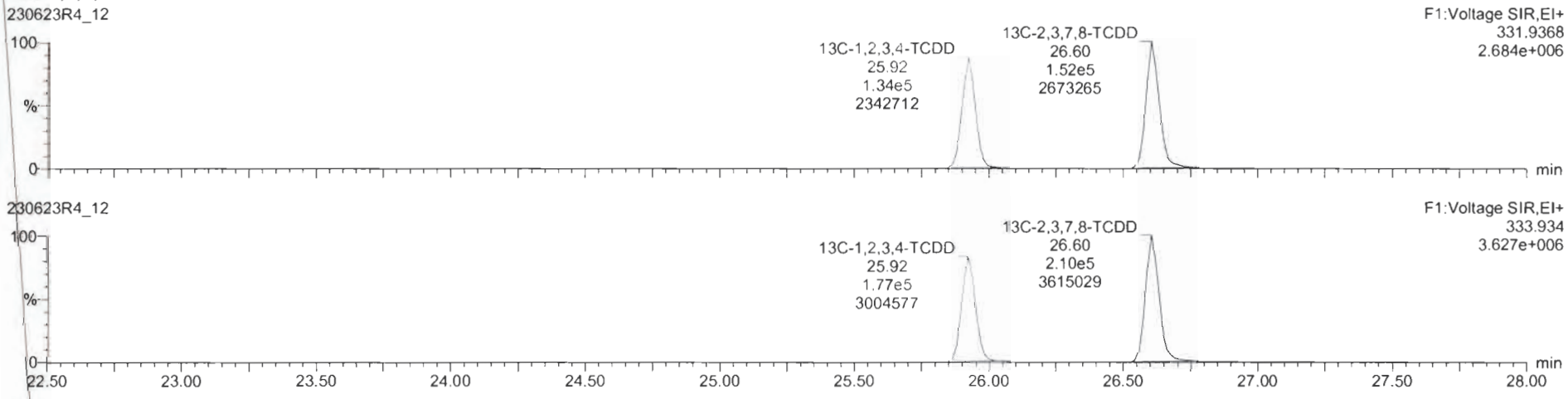
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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-21-23.cdb 22 Jun 2023 08:14:04

Name: 230623R4_12, Date: 24-Jun-2023, Time: 07:26:04, ID: 2305023-03RE1@5X PS63-SS-03 5.56, Description: PS63-SS-03

2,3,7,8-TCDD



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

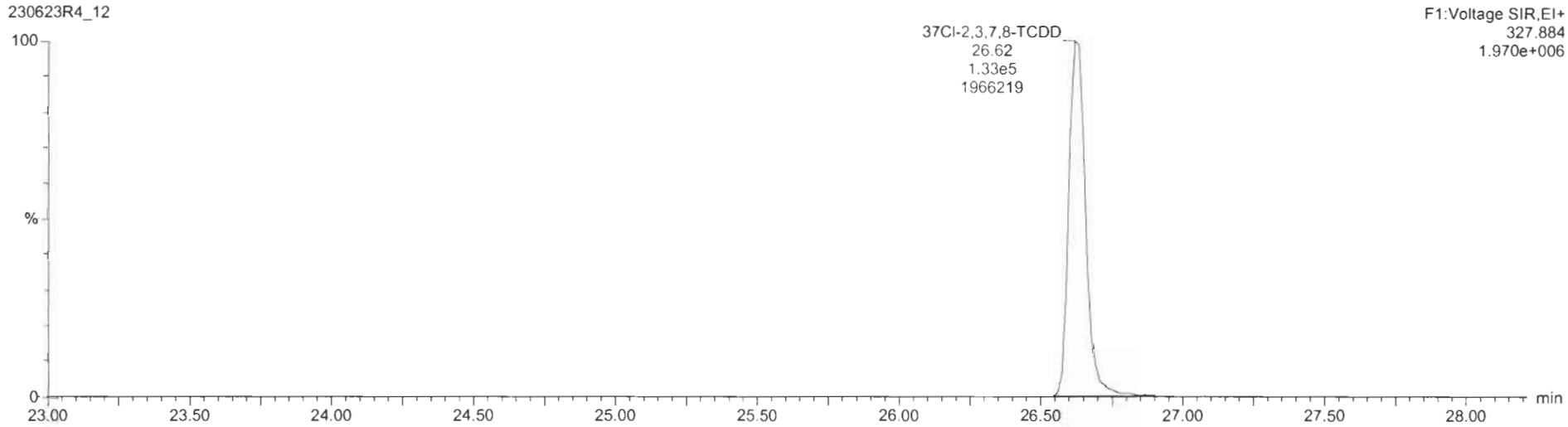


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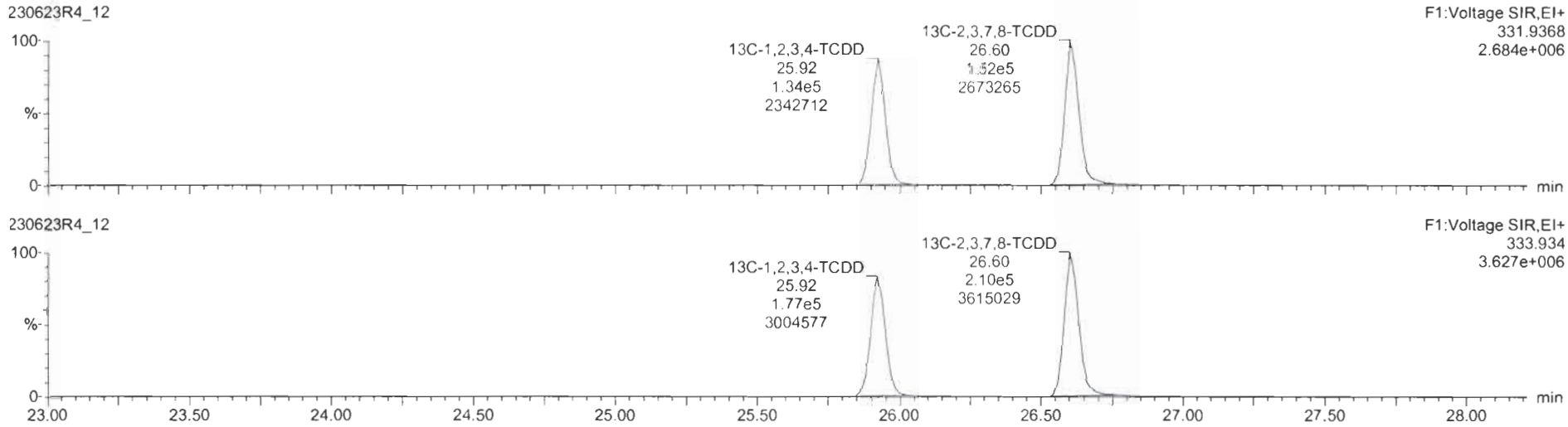
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37Cl-2,3,7,8-TCDD



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

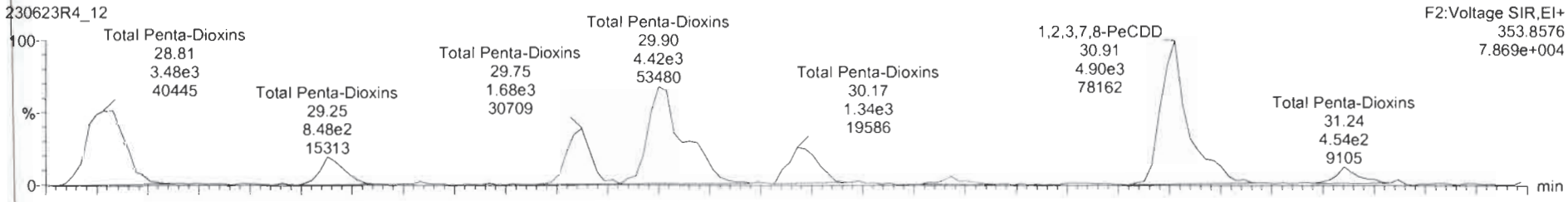


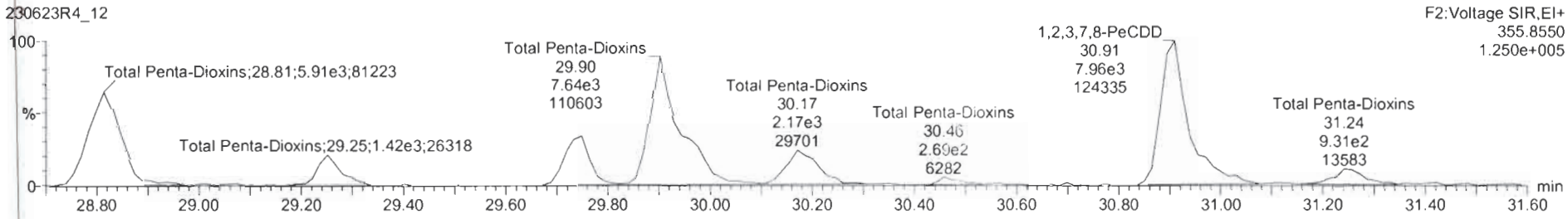
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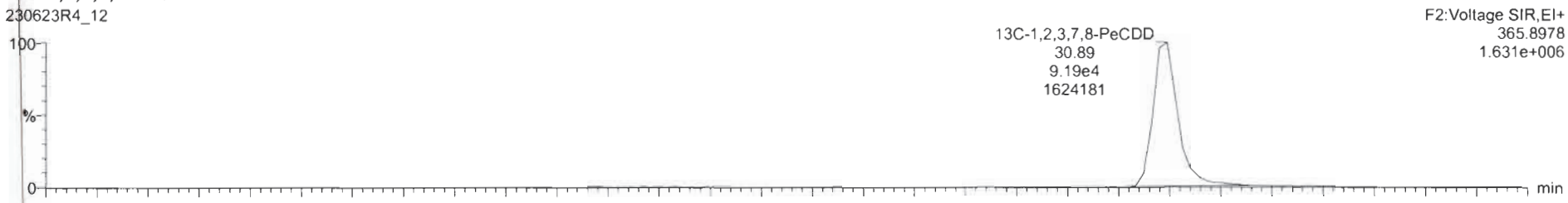
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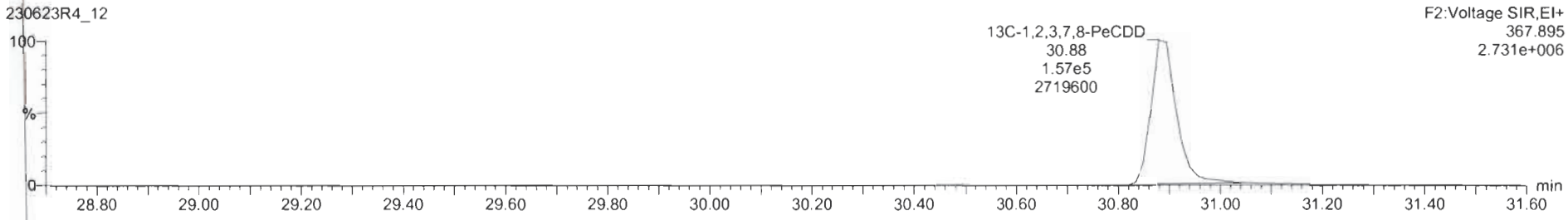
1,2,3,7,8-PeCDD





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



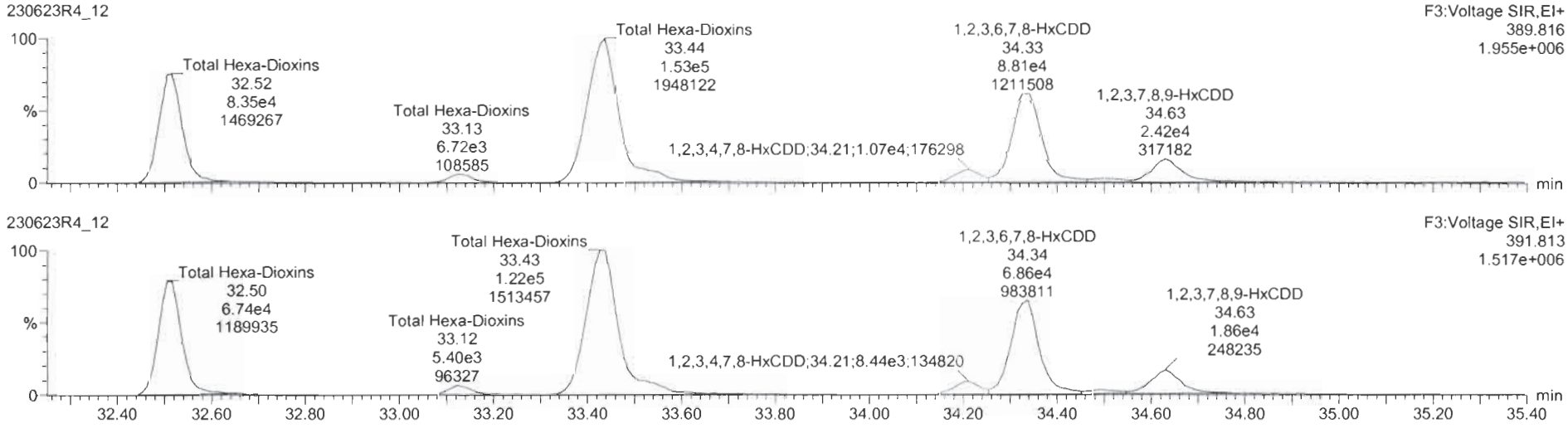


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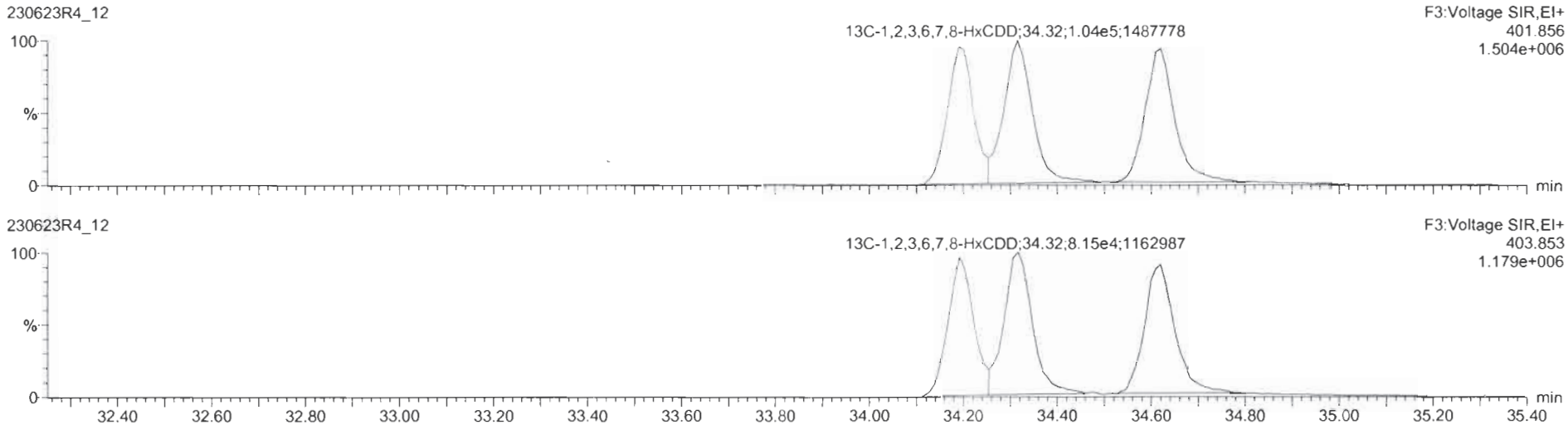
Last Altered: Monday, June 26, 2023 09:52:43 Pacific Daylight Time
Printed: Monday, June 26, 2023 09:56:03 Pacific Daylight Time

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



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

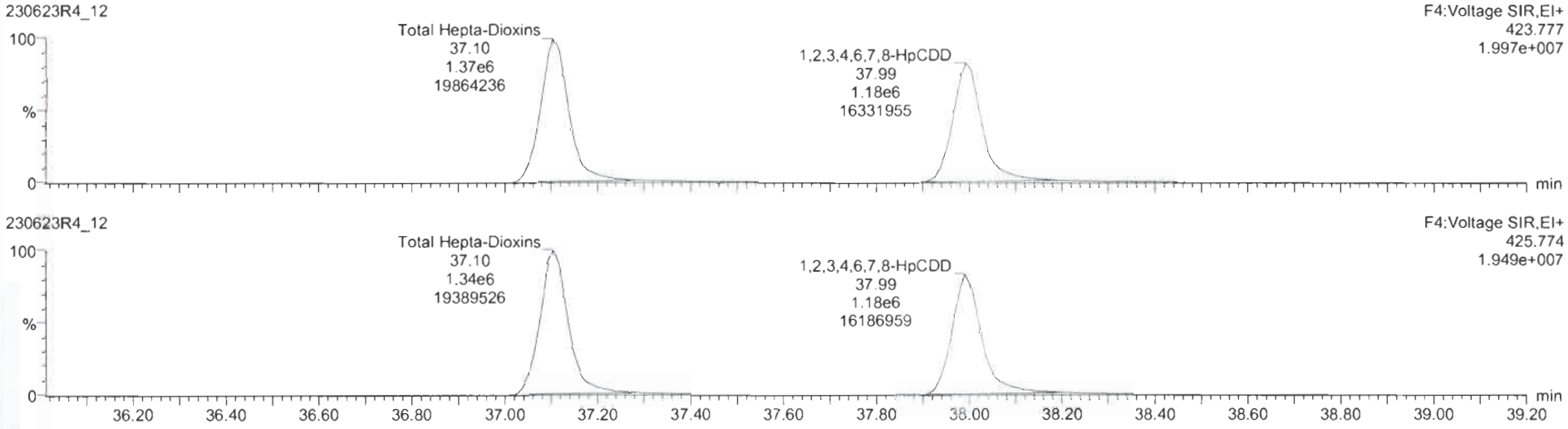


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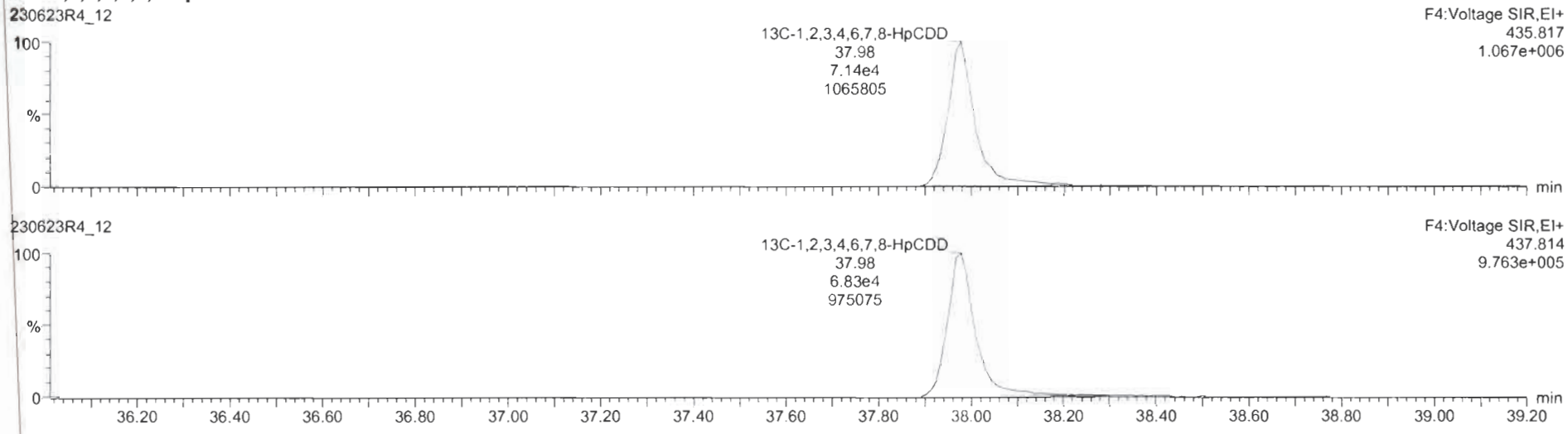
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1,2,3,4,6,7,8-HpCDD



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

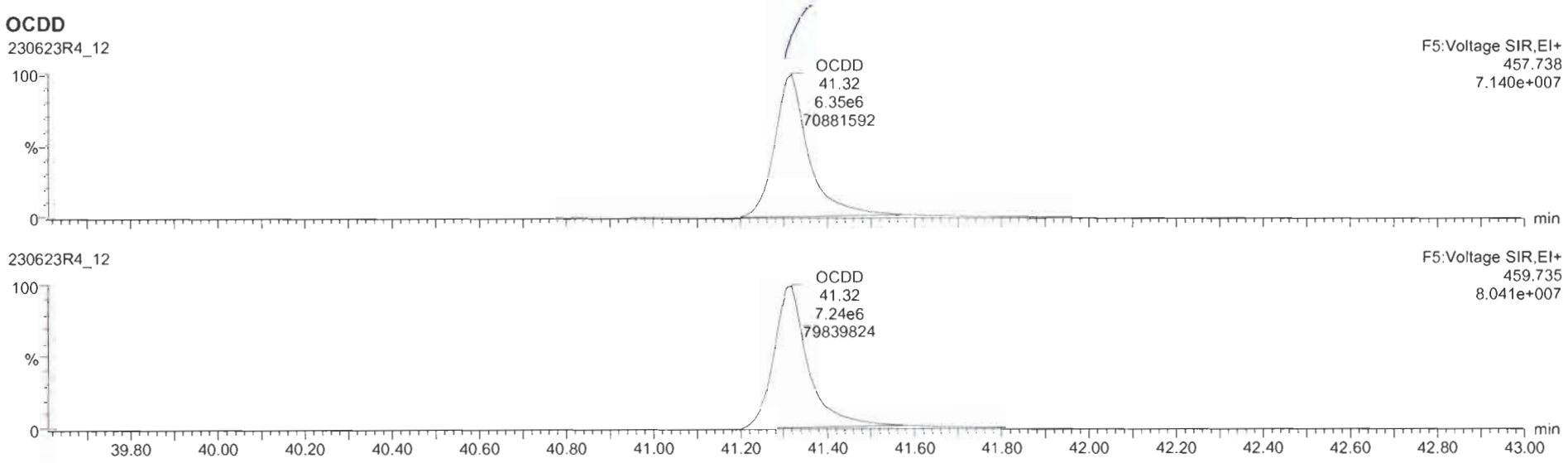


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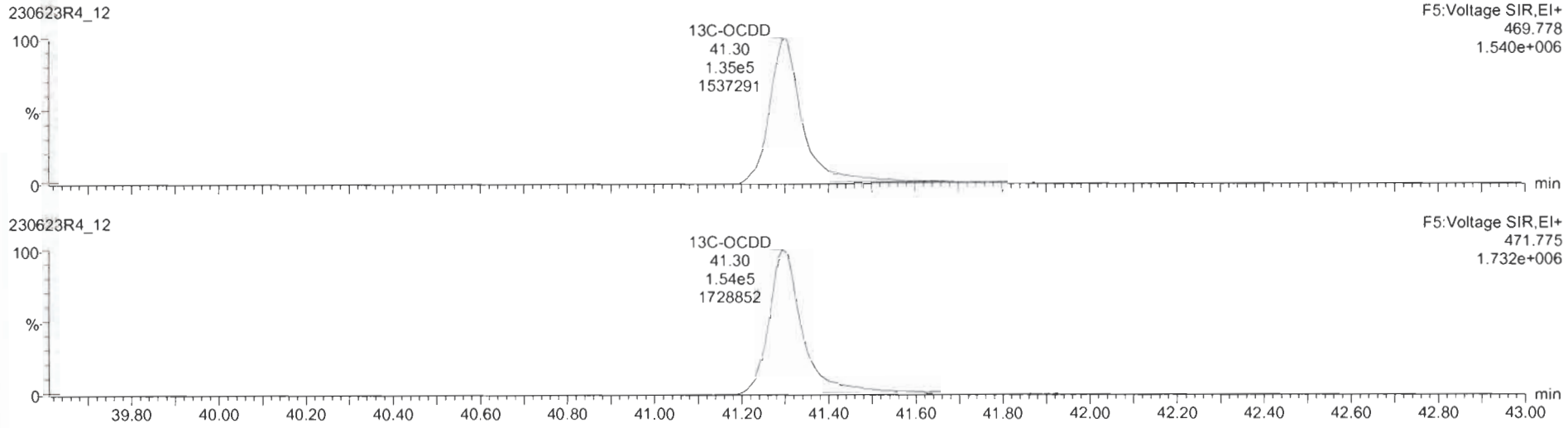
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OCDD



13C-OCDD

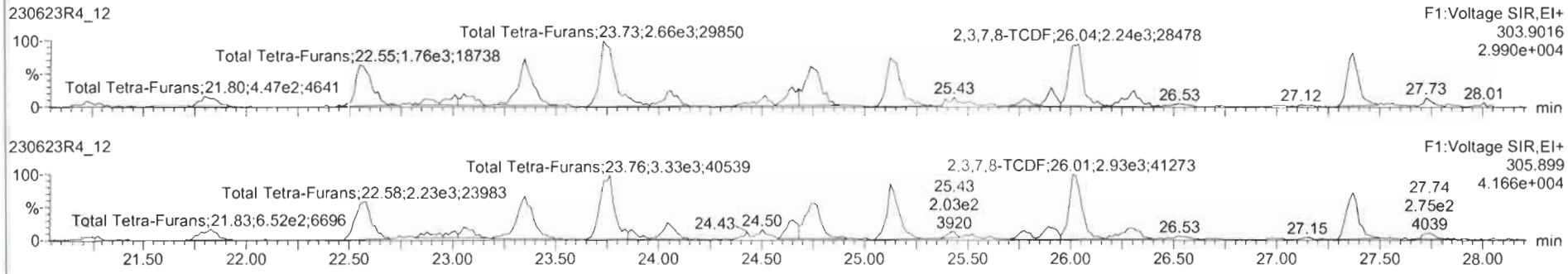


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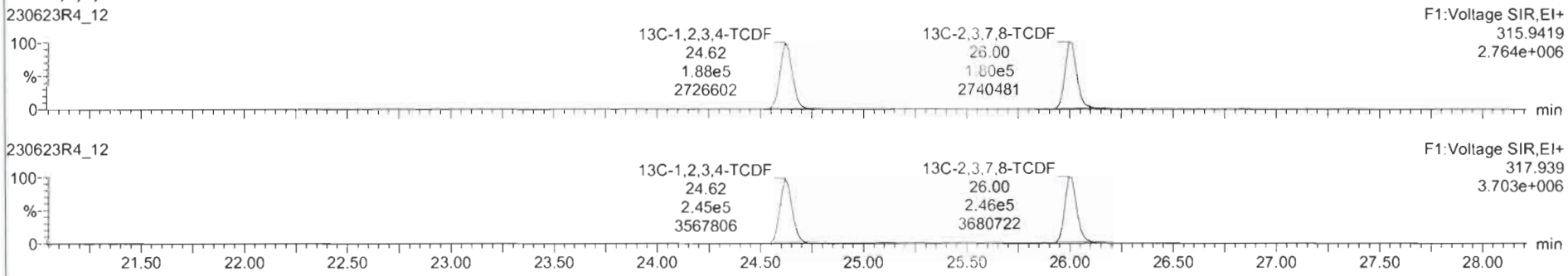
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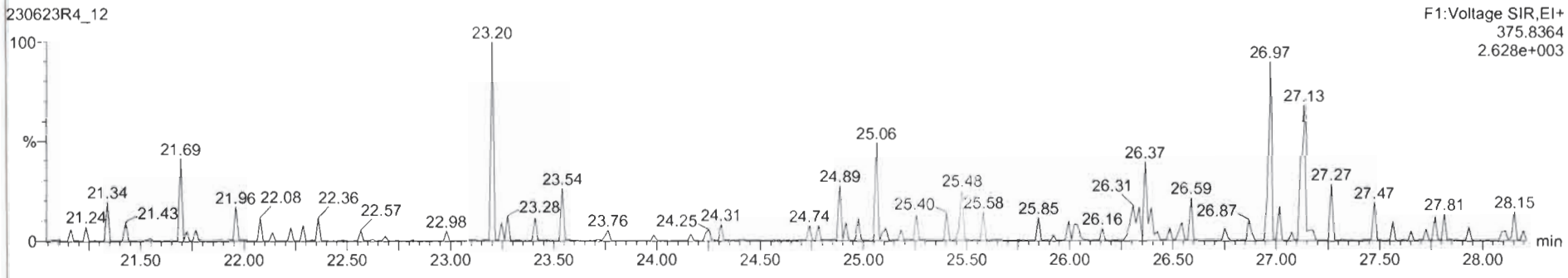
2,3,7,8-TCDF



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



DPE1



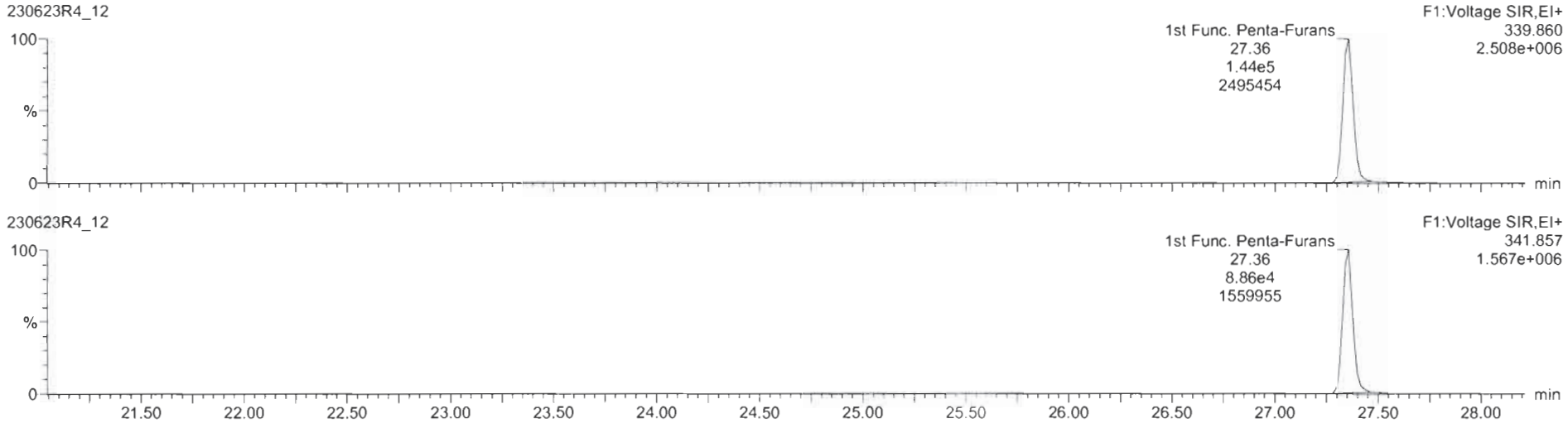
Enthalpy Analytical EDH VG-12

Dataset: Untitled

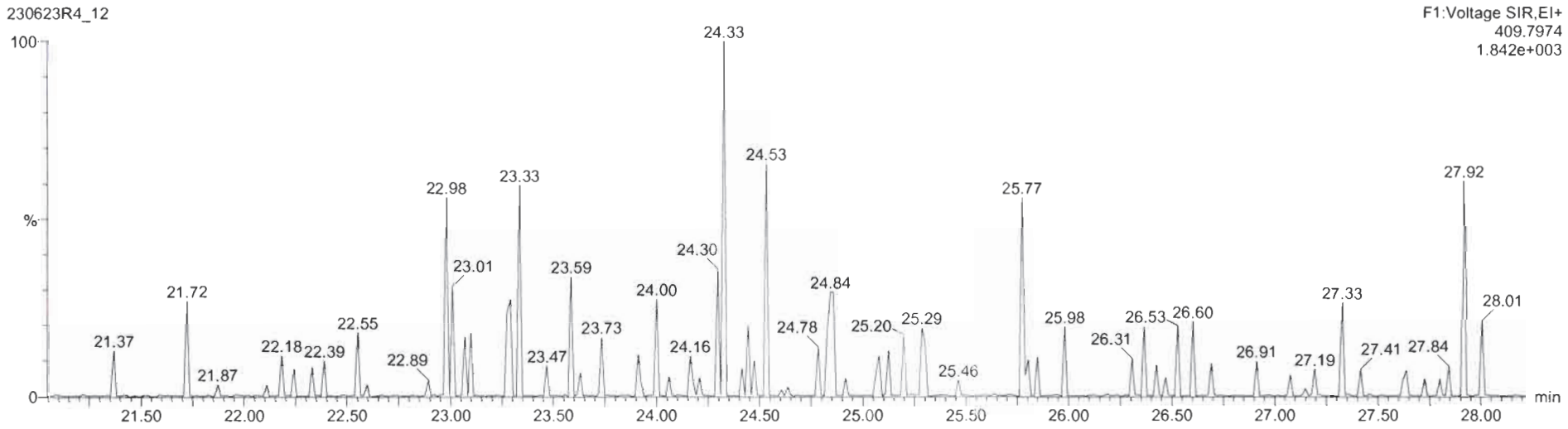
Last Altered: Monday, June 26, 2023 09:52:43 Pacific Daylight Time
Printed: Monday, June 26, 2023 09:56:03 Pacific Daylight Time

Name: 230623R4_12, Date: 24-Jun-2023, Time: 07:26:04, ID: 2305023-03RE1@5X PS63-SS-03 5.56, Description: **PS63-SS-03**

1st Func. Penta-Furans



DPE6

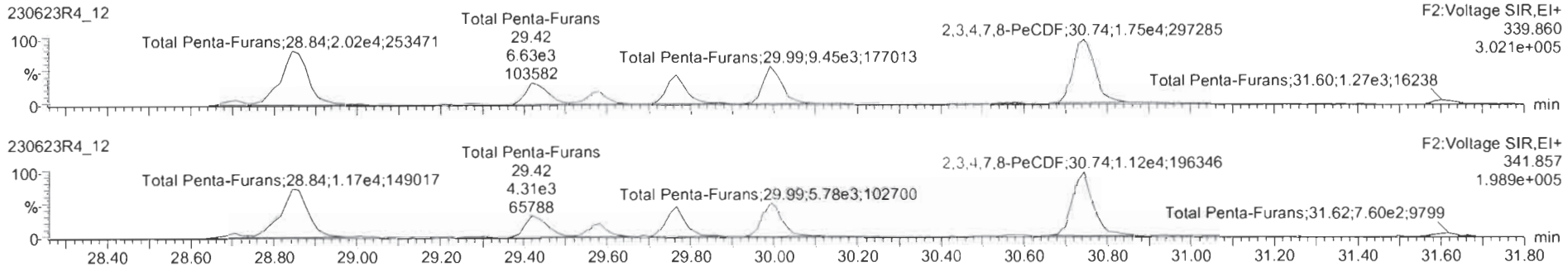


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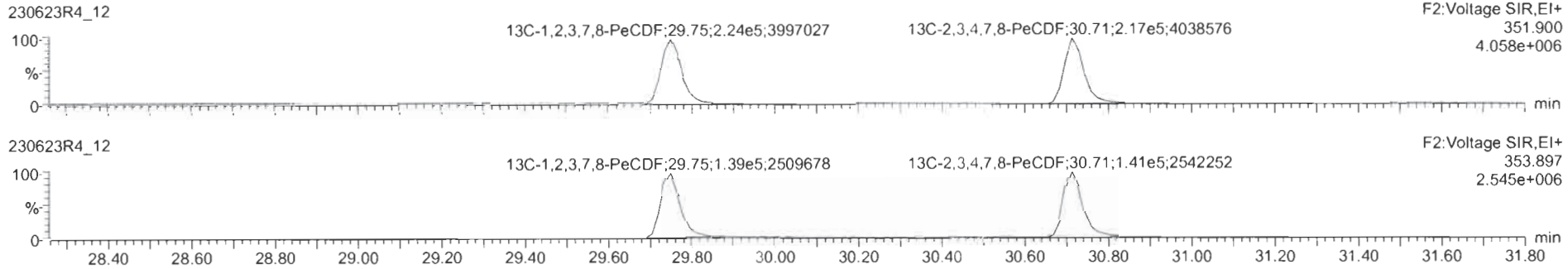
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Name: 230623R4_12, Date: 24-Jun-2023, Time: 07:26:04, ID: 2305023-03RE1@5X PS63-SS-03 5.56, Description: **PS63-SS-03**

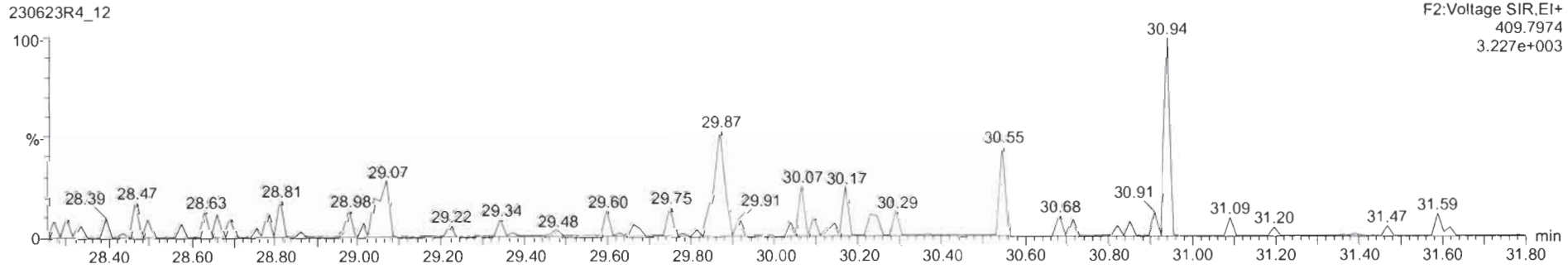
1,2,3,7,8-PeCDF



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



DPE2

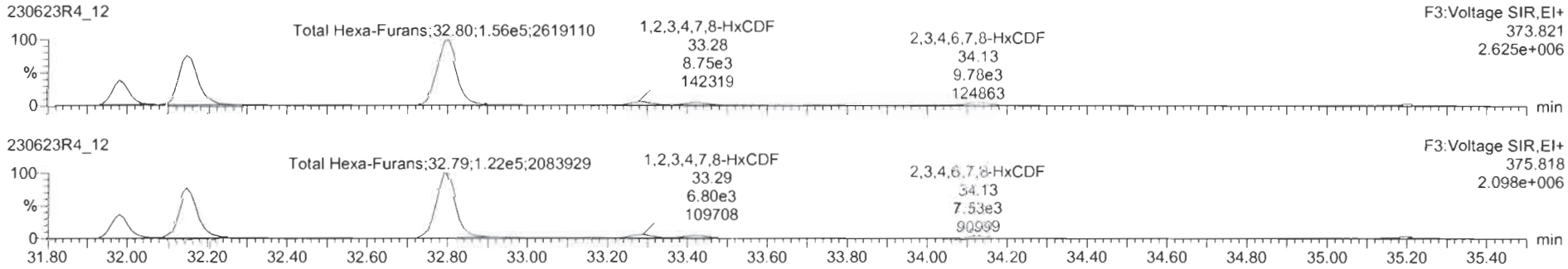


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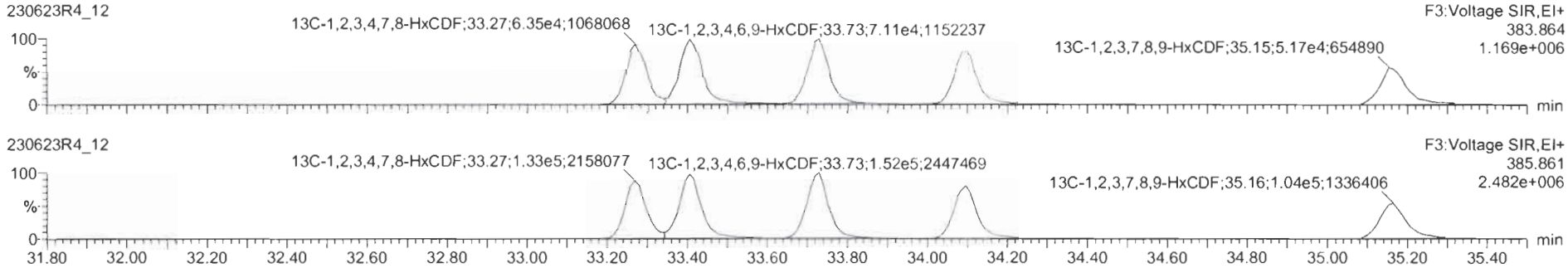
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Printed: Monday, June 26, 2023 09:56:03 Pacific Daylight Time

Name: 230623R4_12, Date: 24-Jun-2023, Time: 07:26:04, ID: 2305023-03RE1@5X PS63-SS-03 5.56, Description: PS63-SS-03

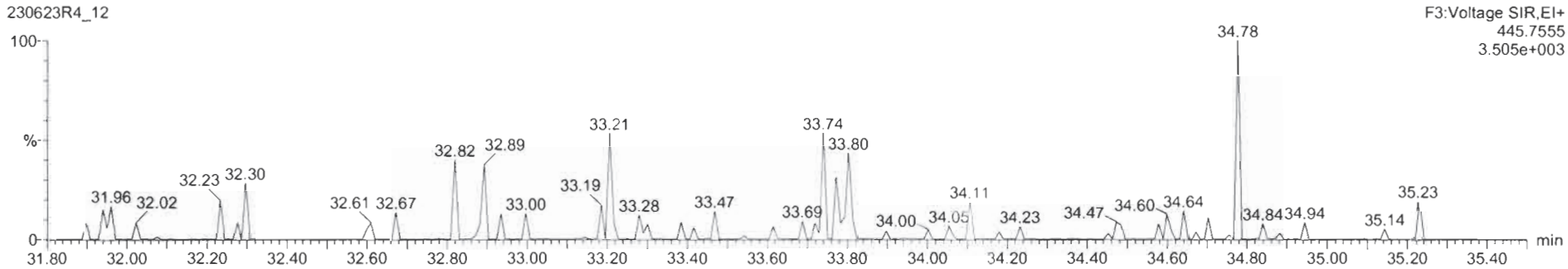
1,2,3,4,7,8-HxCDF



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



DPE3



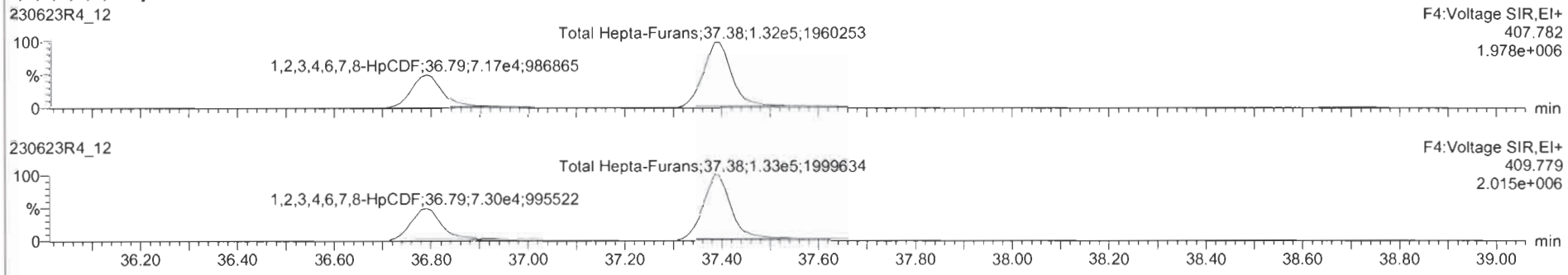
Enthalpy Analytical EDH VG-12

Dataset: Untitled

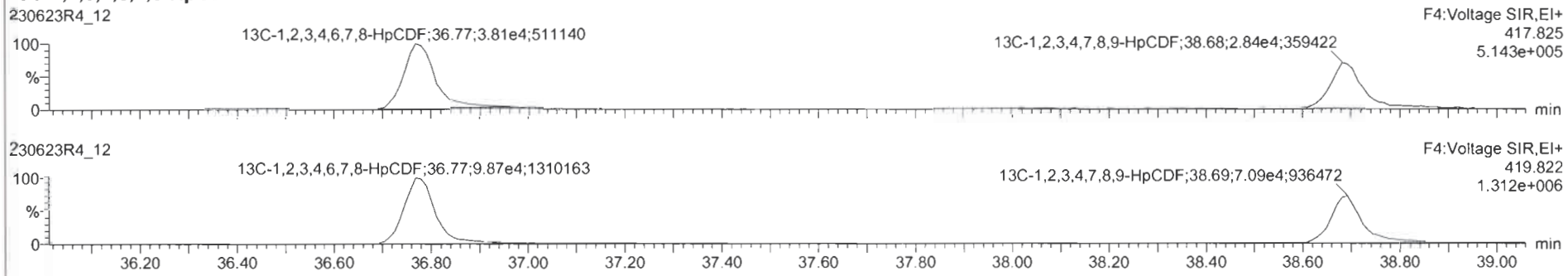
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Printed: Monday, June 26, 2023 09:56:03 Pacific Daylight Time

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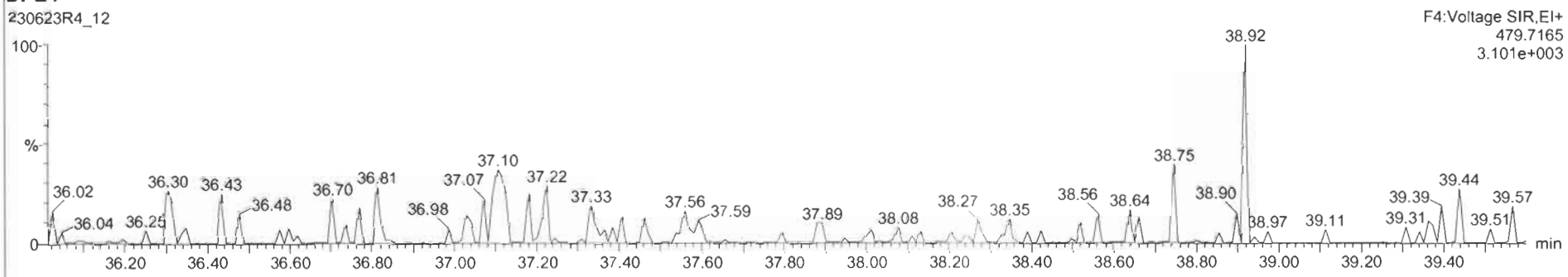
1,2,3,4,6,7,8-HpCDF



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



DPE4

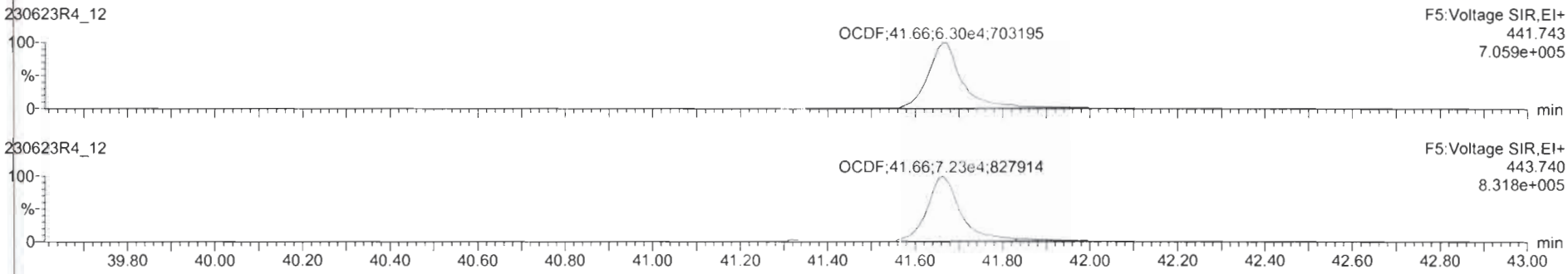


Dataset: Untitled

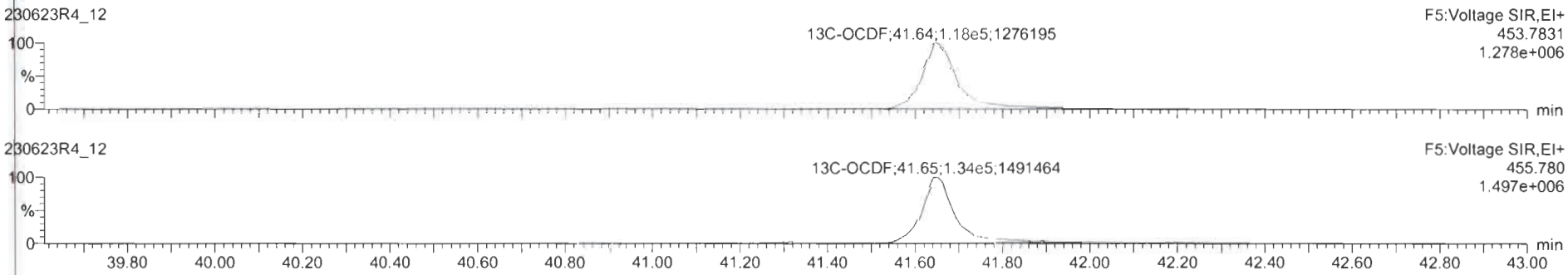
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Printed: Monday, June 26, 2023 09:56:03 Pacific Daylight Time

Name: 230623R4_12, Date: 24-Jun-2023, Time: 07:26:04, ID: 2305023-03RE1@5X PS63-SS-03 5.56, Description: PS63-SS-03

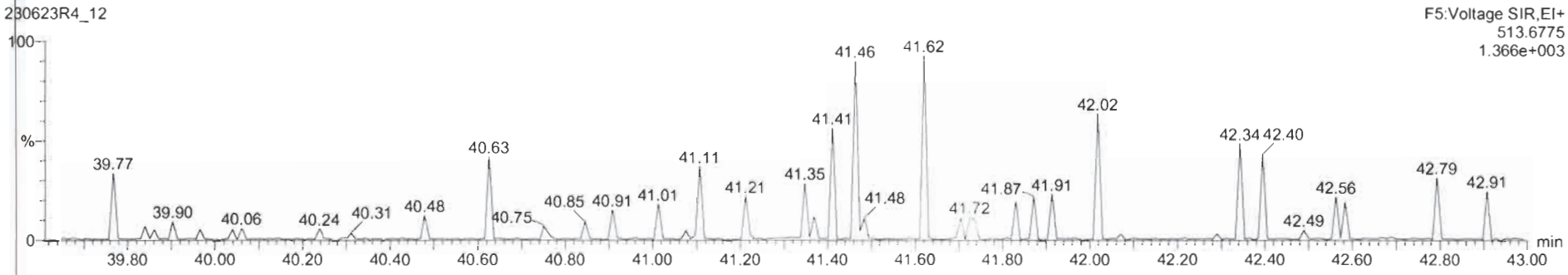
OCDF



13C-OCDF



DPE5

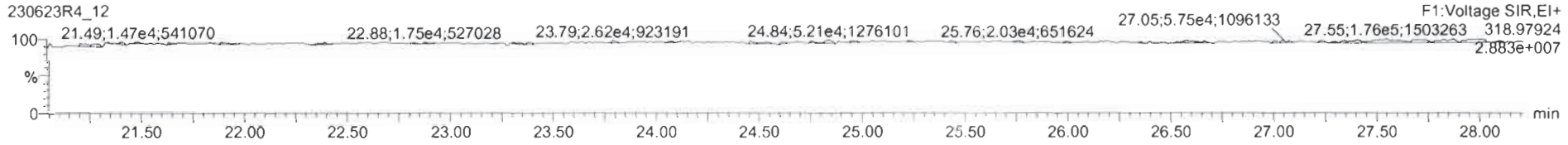


Dataset: Untitled

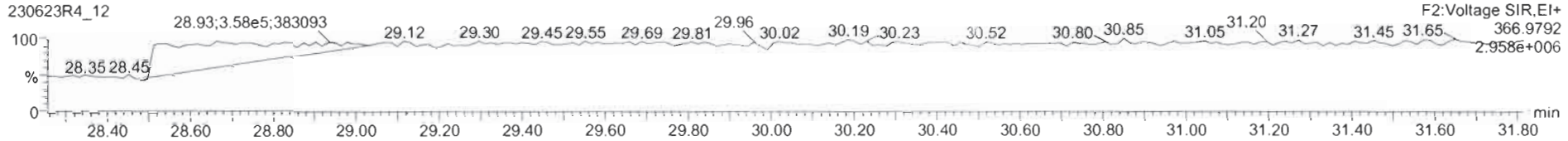
Last Altered: Monday, June 26, 2023 09:52:43 Pacific Daylight Time
Printed: Monday, June 26, 2023 09:56:03 Pacific Daylight Time

Name: 230623R4_12, Date: 24-Jun-2023, Time: 07:26:04, ID: 2305023-03RE1@5X PS63-SS-03 5.56, Description: PS63-SS-03

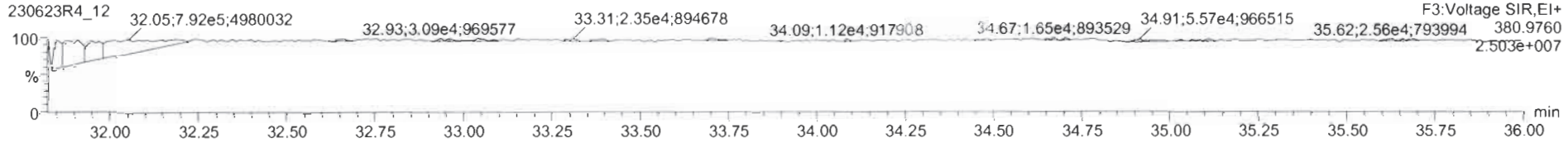
PFK1



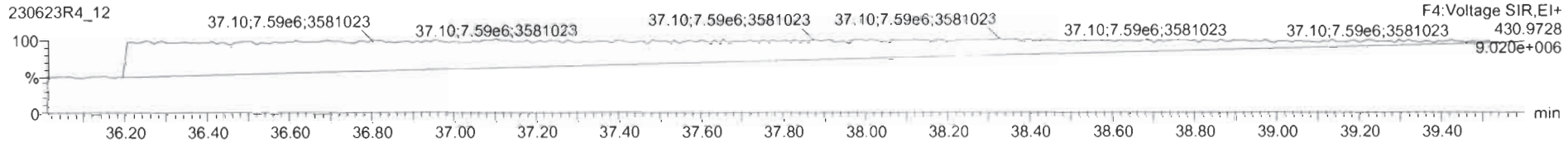
PFK2



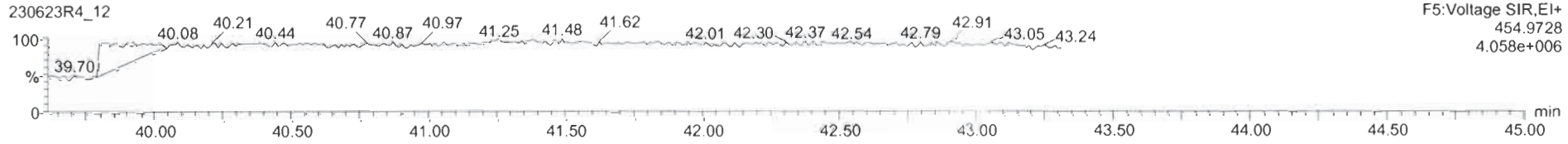
PFK3



PFK4



PFK5



Vista Analytical Laboratory

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-7.qld

Last Altered: Monday, June 12, 2023 17:09:38 Pacific Daylight Time
Printed: Monday, June 12, 2023 17:17:25 Pacific Daylight Time

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Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: PS63-SS-04

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.41e3	0.74	NO	0.906	10.019	26.760	26.76	1.001	1.001	3.3732		0.278	3.37
2	2 1,2,3,7,8-PeCDD	4.96e4	0.58	NO	0.745	10.019	30.997	30.99	1.001	1.000	51.205		0.579	51.2
3	3 1,2,3,4,7,8-HxCDD	9.24e4	1.27	NO	0.837	10.019	34.309	34.31	1.000	1.000	131.81		2.90	132
4	4 1,2,3,6,7,8-HxCDD	5.08e5	1.27	NO	0.782	10.019	34.436	34.44	1.001	1.001	658.78		2.94	659
5	5 1,2,3,7,8,9-HxCDD	1.96e5	1.30	NO	0.780	10.019	34.739	34.74	1.001	1.001	273.17		3.24	273
6	6 1,2,3,4,6,7,8-HpCDD	1.33e7	1.02	NO	0.903	10.019	38.102	38.10	1.000	1.000	18054 E		6.85	18100
7	7 OCDD	9.57e7	0.90	NO	0.782	10.019	41.499	41.51	1.000	1.001	143860 E		9.11	144000
8	8 2,3,7,8-TCDF	8.57e3	0.75	NO	0.852	10.019	26.146	26.15	1.000	1.001	6.2538		0.374	6.25
9	9 1,2,3,7,8-PeCDF	2.80e4	1.58	NO	0.758	10.019	29.868	29.86	1.001	1.000	21.178		0.606	21.2
10	10 2,3,4,7,8-PeCDF	3.98e4	1.63	NO	0.834	10.019	30.834	30.83	1.001	1.000	27.419		0.534	27.4
11	11 1,2,3,4,7,8-HxCDF	5.43e4	1.20	NO	0.762	10.019	33.378	33.39	1.000	1.001	71.031		1.46	71.0
12	12 1,2,3,6,7,8-HxCDF	4.81e4	1.16	NO	0.726	10.019	33.524	33.53	1.001	1.001	56.672		1.41	56.7
13	13 2,3,4,6,7,8-HxCDF	2.36e4	1.11	NO	0.756	10.019	34.216	34.22	1.001	1.001	32.085		1.57	32.1
14	14 1,2,3,7,8,9-HxCDF	8.10e3	1.10	NO	0.749	10.019	35.284	35.31	1.000	1.001	14.706		2.50	14.7
15	15 1,2,3,4,6,7,8-HpCDF	7.61e5	0.98	NO	0.754	10.019	36.910	36.90	1.000	1.000	1528.1		2.17	1530
16	16 1,2,3,4,7,8,9-HpCDF	5.67e4	0.96	NO	0.792	10.019	38.806	38.81	1.000	1.000	157.73		3.29	158
17	17 OCDF	3.35e6	0.85	NO	0.669	10.019	41.800	41.81	1.000	1.000	6175.8 E		3.25	6180
18	18 13C-2,3,7,8-TCDD	2.88e5	0.76	NO	1.13	10.019	26.717	26.73	1.026	1.026	185.23	92.8	0.269	
19	19 13C-1,2,3,7,8-PeCDD	2.60e5	0.58	NO	0.869	10.019	30.674	30.98	1.178	1.189	216.24	108	0.603	
20	20 13C-1,2,3,4,7,8-HxCDD	1.67e5	1.27	NO	0.746	10.019	34.278	34.30	1.013	1.014	203.29	102	1.53	
21	21 13C-1,2,3,6,7,8-HxCDD	1.97e5	1.30	NO	0.803	10.019	34.430	34.42	1.018	1.017	222.41	111	1.43	
22	22 13C-1,2,3,7,8,9-HxCDD	1.83e5	1.32	NO	0.817	10.019	34.724	34.72	1.026	1.026	203.49	102	1.40	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.63e5	1.09	NO	0.611	10.019	38.067	38.09	1.125	1.126	242.31	121	1.15	
24	24 13C-OCDD	3.40e5	0.88	NO	0.545	10.019	41.382	41.48	1.223	1.226	564.61	141	1.17	
25	25 13C-2,3,7,8-TCDF	3.21e5	0.77	NO	1.07	10.019	26.126	26.14	1.003	1.003	158.10	79.2	0.327	
26	26 13C-1,2,3,7,8-PeCDF	3.49e5	1.58	NO	0.907	10.019	29.815	29.85	1.145	1.146	203.06	102	0.714	
27	27 13C-2,3,4,7,8-PeCDF	3.47e5	1.54	NO	0.889	10.019	30.773	30.81	1.181	1.183	206.35	103	0.729	
28	28 13C-1,2,3,4,7,8-HxCDF	2.00e5	0.49	NO	0.993	10.019	33.385	33.37	0.987	0.986	182.86	91.6	1.72	
29	29 13C-1,2,3,6,7,8-HxCDF	2.33e5	0.50	NO	1.05	10.019	33.507	33.50	0.990	0.990	200.77	101	1.63	
30	30 13C-2,3,4,6,7,8-HxCDF	1.94e5	0.46	NO	0.956	10.019	34.183	34.19	1.010	1.011	183.91	92.1	1.79	
31	31 13C-1,2,3,7,8,9-HxCDF	1.47e5	0.47	NO	0.853	10.019	35.249	35.27	1.042	1.043	156.28	78.3	2.01	

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-7.qld

Last Altered: Monday, June 12, 2023 17:09:38 Pacific Daylight Time
Printed: Monday, June 12, 2023 17:17:25 Pacific Daylight Time

Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: PS63-SS-04

	#	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	1.32e5	0.38	NO	0.721	10.019	36.866	36.89	1.090	1.091	165.83	83.1	1.53	
33	33	13C-1,2,3,4,7,8,9-HpCDF	9.06e4	0.41	NO	0.581	10.019	38.757	38.79	1.146	1.147	141.46	70.9	1.90	
34	34	13C-OCDF	3.24e5	0.87	NO	0.718	10.019	41.771	41.79	1.235	1.235	408.76	102	1.36	
35	35	37Cl-2,3,7,8-TCDD	1.05e5			0.980	10.019	26.728	26.74	1.026	1.027	77.179	96.7	0.118	
36	36	13C-1,2,3,4-TCDD	2.76e5	0.75	NO	1.00	10.019	26.110	26.05	1.000	1.000	199.61	100	0.302	
37	37	13C-1,2,3,4-TCDF	3.78e5	0.76	NO	1.00	10.019	24.810	24.78	1.000	1.000	199.61	100	0.351	
38	38	13C-1,2,3,4,6,9-HxCDF	2.20e5	0.48	NO	1.00	10.019	33.840	33.83	1.000	1.000	199.61	100	1.71	
39	39	Total Tetra-Dioxins				0.906	10.019	24.620		0.000		16.114		0.278	16.6
40	40	Total Penta-Dioxins				0.745	10.019	29.960		0.000		194.13		0.579	194
41	41	Total Hexa-Dioxins				0.782	10.019	33.635		0.000		3287.6		3.09	3290
42	42	Total Hepta-Dioxins				0.903	10.019	37.640		0.000		34284		6.85	34300
43	43	Total Tetra-Furans				0.852	10.019	23.610		0.000		50.811		0.374	53.9
44	44	1st Func. Penta-Furans				0.758	10.019	27.450		0.000		398.58		0.0739	399
45	45	Total Penta-Furans				0.758	10.019	29.275		0.000		210.90		0.597	211
46	46	Total Hexa-Furans				0.756	10.019	33.555		0.000		2555.2		1.65	2560
47	47	Total Hepta-Furans				0.754	10.019	37.835		0.000		5984.2		2.70	5980

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-7.qld

Last Altered: Monday, June 12, 2023 17:09:38 Pacific Daylight Time
Printed: Monday, June 12, 2023 17:17:25 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: **PS63-SS-04**

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.46	1.009e4	1.691e4	8.156e2	1.179e3	0.69	NO	1.995e3	1.5247	1.5250	0.278
2	Total Tetra-Dioxins	23.76	8.824e3	1.127e4	7.987e2	9.690e2	0.82	NO	1.768e3	1.3511	1.3510	0.278
3	Total Tetra-Dioxins	24.22	5.318e3	7.550e3	3.966e2	5.952e2	0.67	NO	9.917e2	0.75797	0.75800	0.278
4	Total Tetra-Dioxins	24.91	2.135e3	2.884e3	1.766e2	1.640e2	1.08	YES	0.000e0	0.00000	0.22200	0.278
5	Total Tetra-Dioxins	25.12	8.414e3	1.186e4	6.812e2	8.563e2	0.80	NO	1.537e3	1.1750	1.1750	0.278
6	Total Tetra-Dioxins	25.32	2.159e4	3.399e4	1.703e3	2.217e3	0.77	NO	3.920e3	2.9957	2.9960	0.278
7	Total Tetra-Dioxins	25.47	4.427e3	8.080e3	3.668e2	4.788e2	0.77	NO	8.456e2	0.64629	0.64600	0.278
8	Total Tetra-Dioxins	25.75	4.248e3	5.815e3	2.468e2	3.658e2	0.68	NO	6.126e2	0.46818	0.46800	0.278
9	Total Tetra-Dioxins	25.84	5.901e3	8.291e3	5.020e2	6.206e2	0.81	NO	1.123e3	0.85804	0.85800	0.278
10	Total Tetra-Dioxins	26.09	2.966e3	3.740e3	1.755e2	1.982e2	0.89	YES	0.000e0	0.00000	0.26800	0.278
11	Total Tetra-Dioxins	26.49	8.784e3	5.861e3	5.638e2	6.832e2	0.82	NO	1.247e3	0.95307	0.95300	0.278
12	2,3,7,8-TCDD	26.76	2.778e4	3.889e4	1.878e3	2.535e3	0.74	NO	4.414e3	3.3732	3.3730	0.278
13	Total Tetra-Dioxins	27.05	1.374e4	1.853e4	9.194e2	1.347e3	0.68	NO	2.267e3	1.7324	1.7320	0.278
14	Total Tetra-Dioxins	27.56	2.570e3	2.904e3	1.573e2	2.071e2	0.76	NO	3.644e2	0.27851	0.27900	0.278

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.93	1.653e5	2.736e5	1.249e4	2.119e4	0.59	NO	3.368e4	34.746	34.746	0.579
2	Total Penta-Dioxins	29.36	6.076e4	1.010e5	3.323e3	5.422e3	0.61	NO	8.744e3	9.0206	9.0210	0.579
3	Total Penta-Dioxins	29.85	9.026e4	1.408e5	5.006e3	8.127e3	0.62	NO	1.313e4	13.548	13.548	0.579
4	Total Penta-Dioxins	30.00	2.651e5	4.865e5	1.887e4	3.198e4	0.59	NO	5.085e4	52.458	52.458	0.579
5	Total Penta-Dioxins	30.27	7.741e4	1.312e5	5.742e3	1.006e4	0.57	NO	1.580e4	16.297	16.297	0.579
6	Total Penta-Dioxins	30.59	7.605e3	1.638e4	5.356e2	9.415e2	0.57	NO	1.477e3	1.5237	1.5240	0.579
7	1,2,3,7,8-PeCDD	30.99	3.129e5	5.800e5	1.825e4	3.139e4	0.58	NO	4.964e4	51.205	51.205	0.579
8	Total Penta-Dioxins	31.05	5.988e4	9.739e4	3.114e3	5.199e3	0.60	NO	8.313e3	8.5757	8.5760	0.579
9	Total Penta-Dioxins	31.35	3.298e4	6.445e4	2.463e3	4.089e3	0.60	NO	6.552e3	6.7590	6.7590	0.579

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-7.qld

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.60	5.455e6	4.343e6	3.068e5	2.430e5	1.26	NO	5.498e5	768.93	768.93	3.09
2	Total Hexa-Dioxins	33.23	5.146e5	4.056e5	3.083e4	2.492e4	1.24	NO	5.575e4	77.971	77.971	3.09
3	Total Hexa-Dioxins	33.53	6.343e6	5.039e6	5.324e5	4.236e5	1.26	NO	9.560e5	1337.1	1337.1	3.09
4	1,2,3,4,7,8-HxCDD	34.31	8.070e5	6.429e5	5.178e4	4.063e4	1.27	NO	9.241e4	131.81	131.81	2.90
5	1,2,3,6,7,8-HxCDD	34.44	3.915e6	3.142e6	2.843e5	2.239e5	1.27	NO	5.082e5	658.78	658.78	2.94
6	Total Hexa-Dioxins	34.61	2.128e5	1.590e5	1.650e4	1.203e4	1.37	NO	2.853e4	39.910	39.910	3.09
7	1,2,3,7,8,9-HxCDD	34.74	1.369e6	1.044e6	1.104e5	8.520e4	1.30	NO	1.956e5	273.17	273.17	3.24

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.22	9.583e7	9.356e7	6.076e6	5.918e6	1.03	NO	1.199e7	16230	16230	6.85
2	1,2,3,4,6,7,8-HpCDD	38.10	1.018e8	9.919e7	6.723e6	6.619e6	1.02	NO	1.334e7	18054	18054	6.85

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.42	2.934e3	3.546e3	2.409e2	3.140e2	0.77	NO	5.550e2	0.40483	0.40500	0.374
2	Total Tetra-Furans	22.04	9.999e3	1.222e4	9.489e2	1.109e3	0.86	NO	2.058e3	1.5011	1.5010	0.374
3	Total Tetra-Furans	22.75	5.254e4	6.214e4	4.443e3	5.677e3	0.78	NO	1.012e4	7.3816	7.3820	0.374
4	Total Tetra-Furans	23.06	7.141e3	9.245e3	5.161e2	7.135e2	0.72	NO	1.230e3	0.89698	0.89700	0.374
5	Total Tetra-Furans	23.17	5.970e3	9.100e3	4.277e2	5.432e2	0.79	NO	9.708e2	0.70819	0.70800	0.374
6	Total Tetra-Furans	23.52	3.412e4	4.800e4	2.962e3	4.165e3	0.71	NO	7.127e3	5.1987	5.1990	0.374
7	Total Tetra-Furans	23.90	5.680e4	7.507e4	4.824e3	6.172e3	0.78	NO	1.100e4	8.0211	8.0210	0.374
8	Total Tetra-Furans	24.20	9.729e3	1.364e4	8.192e2	9.520e2	0.86	NO	1.771e3	1.2920	1.2920	0.374
9	Total Tetra-Furans	24.64	4.024e3	6.938e3	4.305e2	6.059e2	0.71	NO	0.000e0	0.00000	0.75600	0.374
10	Total Tetra-Furans	24.81	1.743e4	2.792e4	1.008e3	1.797e3	0.56	YES	0.000e0	0.00000	1.6910	0.374
11	Total Tetra-Furans	24.90	3.509e4	5.079e4	3.102e3	3.925e3	0.79	NO	7.027e3	5.1258	5.1260	0.374
12	Total Tetra-Furans	25.28	5.261e4	6.114e4	3.389e3	4.272e3	0.79	NO	7.661e3	5.5887	5.5890	0.374
13	Total Tetra-Furans	25.55	3.416e3	5.402e3	2.116e2	3.128e2	0.68	NO	5.244e2	0.38256	0.38300	0.374
14	Total Tetra-Furans	25.65	4.013e3	5.067e3	1.831e2	2.383e2	0.77	NO	4.214e2	0.30738	0.30700	0.374
15	Total Tetra-Furans	25.89	3.483e3	6.218e3	2.758e2	3.681e2	0.75	NO	6.439e2	0.46968	0.47000	0.374
16	Total Tetra-Furans	26.05	1.142e4	1.461e4	6.656e2	8.638e2	0.77	NO	1.529e3	1.1156	1.1160	0.374
17	2,3,7,8-TCDF	26.15	5.285e4	7.683e4	3.665e3	4.908e3	0.75	NO	8.573e3	6.2538	6.2540	0.374
18	Total Tetra-Furans	26.45	7.937e3	9.197e3	6.783e2	8.046e2	0.84	NO	1.483e3	1.0818	1.0820	0.374
19	Total Tetra-Furans	27.48	4.602e4	5.989e4	2.904e3	4.062e3	0.71	NO	6.966e3	5.0816	5.0820	0.374
20	Total Tetra-Furans	27.84	5.769e3	8.238e3	3.762e2	5.818e2	0.65	YES	0.000e0	0.00000	0.63100	0.374

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.47	5.575e6	3.560e6	3.218e5	2.044e5	1.57	NO	5.263e5	398.58	398.58	0.0739

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	6.869e4	3.390e4	3.588e3	2.084e3	1.72	NO	5.672e3	4.2959	4.2960	0.597
2	Total Penta-Furans	28.96	8.026e5	5.093e5	5.864e4	3.697e4	1.59	NO	9.560e4	72.406	72.406	0.597
3	Total Penta-Furans	29.53	3.013e5	1.914e5	1.984e4	1.236e4	1.61	NO	3.220e4	24.387	24.387	0.597
4	Total Penta-Furans	29.68	1.285e5	8.576e4	7.427e3	4.487e3	1.65	NO	1.191e4	9.0234	9.0230	0.597
5	1,2,3,7,8-PeCDF	29.86	3.097e5	2.014e5	1.718e4	1.084e4	1.58	NO	2.802e4	21.178	21.178	0.606
6	Total Penta-Furans	30.09	3.853e5	2.364e5	2.097e4	1.324e4	1.58	NO	3.420e4	25.905	25.905	0.597
7	Total Penta-Furans	30.66	2.165e4	1.103e4	1.120e3	6.593e2	1.70	NO	1.779e3	1.3477	1.3480	0.597
8	2,3,4,7,8-PeCDF	30.83	7.162e5	4.223e5	2.465e4	1.514e4	1.63	NO	3.979e4	27.419	27.419	0.534
9	Total Penta-Furans	30.84	6.778e5	4.223e5	1.760e4	1.078e4	1.63	NO	2.839e4	21.500	21.500	0.597
10	Total Penta-Furans	31.70	4.688e4	2.728e4	2.776e3	1.768e3	1.57	NO	4.544e3	3.4415	3.4410	0.597

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.07	2.566e6	2.157e6	1.347e5	1.114e5	1.21	NO	2.460e5	335.60	335.60	1.65
2	Total Hexa-Furans	32.25	6.404e6	5.474e6	3.560e5	3.049e5	1.17	NO	6.609e5	901.49	901.49	1.65
3	Total Hexa-Furans	32.67	5.518e4	4.607e4	3.200e3	2.719e3	1.18	NO	5.919e3	8.0730	8.0730	1.65
4	Total Hexa-Furans	32.90	7.132e6	6.093e6	4.161e5	3.522e5	1.18	NO	7.683e5	1047.9	1047.9	1.65
5	Total Hexa-Furans	33.26	4.077e4	3.797e4	2.261e3	2.025e3	1.12	NO	4.286e3	5.8454	5.8450	1.65
6	1,2,3,4,7,8-HxCDF	33.39	4.962e5	4.251e5	2.958e4	2.475e4	1.20	NO	5.433e4	71.031	71.031	1.46
7	1,2,3,6,7,8-HxCDF	33.53	4.173e5	3.508e5	2.583e4	2.225e4	1.16	NO	4.808e4	56.672	56.672	1.41
8	Total Hexa-Furans	33.86	2.541e4	1.889e4	1.474e3	1.092e3	1.35	NO	2.566e3	3.4999	3.5000	1.65
9	2,3,4,6,7,8-HxCDF	34.22	4.497e5	3.820e5	1.238e4	1.118e4	1.11	NO	2.356e4	32.085	32.085	1.57
10	Total Hexa-Furans	34.23	4.786e5	4.017e5	2.454e4	2.033e4	1.21	NO	4.487e4	61.199	61.199	1.65
11	1,2,3,7,8,9-HxCDF	35.31	1.160e5	1.017e5	4.249e3	3.855e3	1.10	NO	8.104e3	14.706	14.706	2.50
12	Total Hexa-Furans	35.31	1.306e5	1.111e5	6.831e3	5.743e3	1.19	NO	1.257e4	17.150	17.150	1.65

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Hepta-Furans

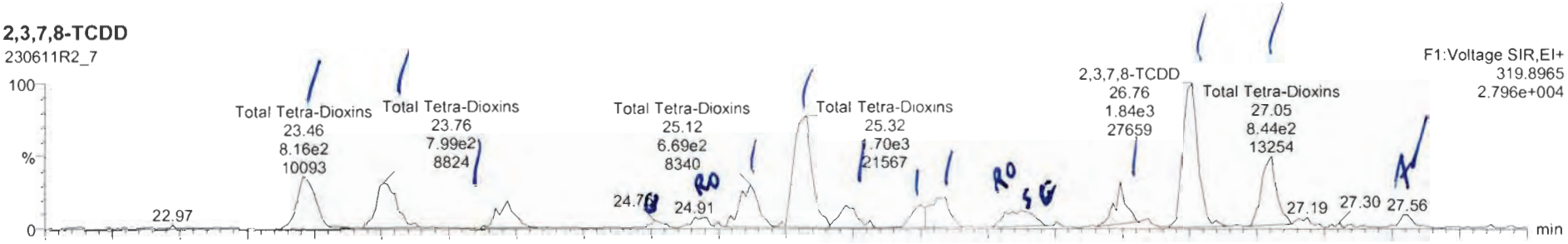
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.90	5.129e6	5.231e6	3.767e5	3.842e5	0.98	NO	7.609e5	1528.1	1528.1	2.17
2	Total Hepta-Furans	37.28	8.012e4	8.304e4	5.872e3	5.500e3	1.07	NO	1.137e4	27.071	27.071	2.70
3	Total Hepta-Furans	37.49	1.465e7	1.486e7	8.889e5	9.055e5	0.98	NO	1.794e6	4271.3	4271.3	2.70
4	1,2,3,4,7,8,9-HpCDF	38.81	3.555e5	3.735e5	2.779e4	2.895e4	0.96	NO	5.674e4	157.73	157.73	3.29

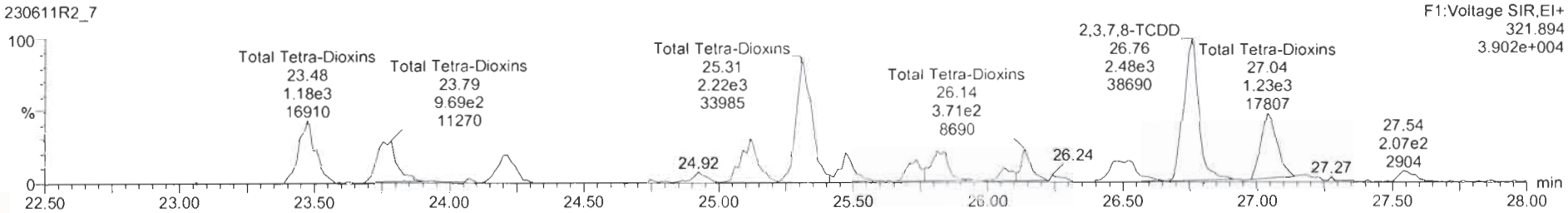
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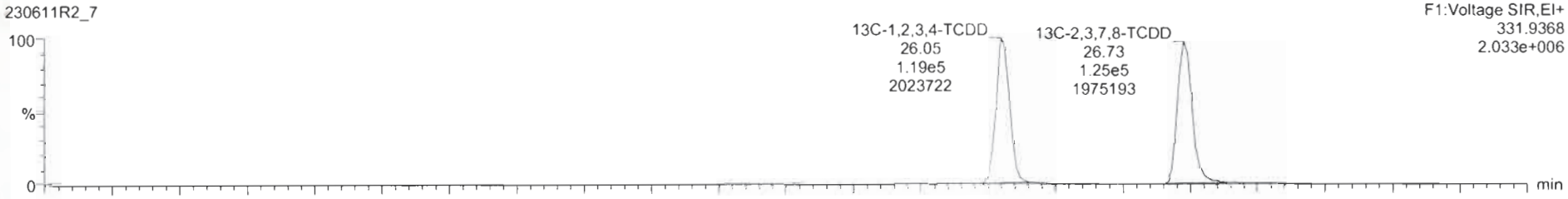
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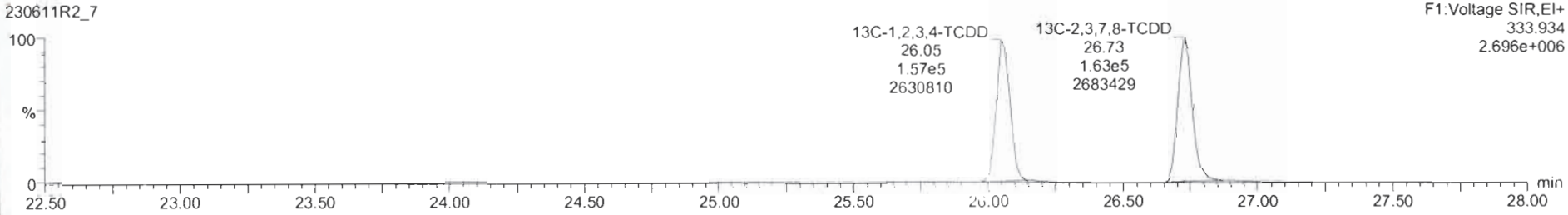
2,3,7,8-TCDD

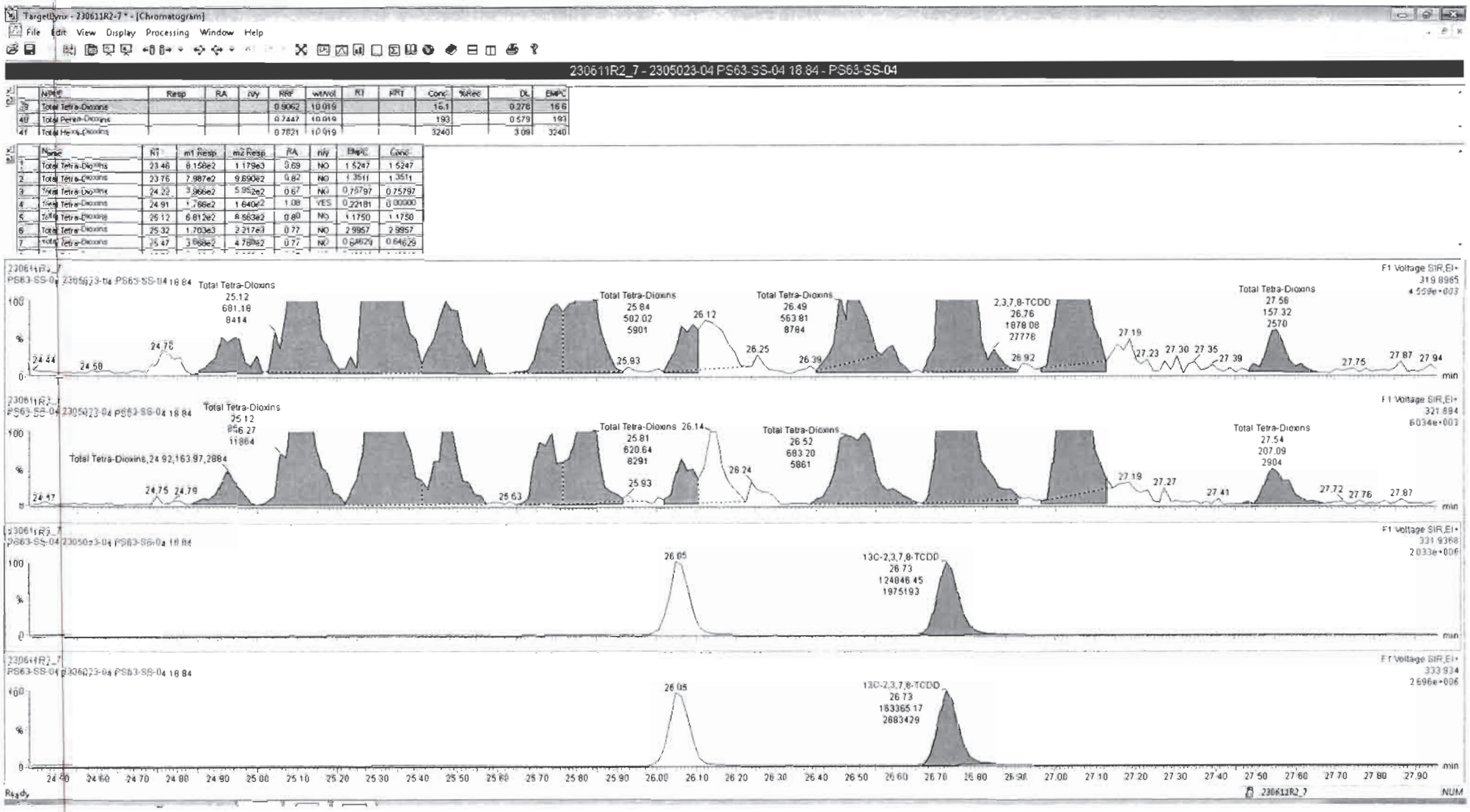




13C-2,3,7,8-TCDD







	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9062	10.019			16.1		0.278	16.6
40	Total Penta-Dioxins				0.7447	10.019			193		0.579	193
41	Total Hexa-Dioxins				0.7621	10.019			3240		3.09	3240

	Name	RT	m1 Resp.	m2 Resp.	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	23.46	8.158e2	1.179e3	0.69	NO	1.5247	1.5247
2	Total Tetra-Dioxins	23.76	7.987e2	9.890e2	0.82	NO	1.3511	1.3511
3	Total Tetra-Dioxins	24.22	3.966e2	5.952e2	0.67	NO	0.75797	0.75797
4	Total Tetra-Dioxins	24.91	1.766e2	1.640e2	1.08	YES	0.22181	0.00000
5	Total Tetra-Dioxins	25.12	6.812e2	8.563e2	0.80	NO	1.1750	1.1750
6	Total Tetra-Dioxins	25.32	1.703e3	2.217e3	0.77	NO	2.9957	2.9957
7	Total Tetra-Dioxins	25.47	3.958e2	4.788e2	0.77	NO	0.64629	0.64629

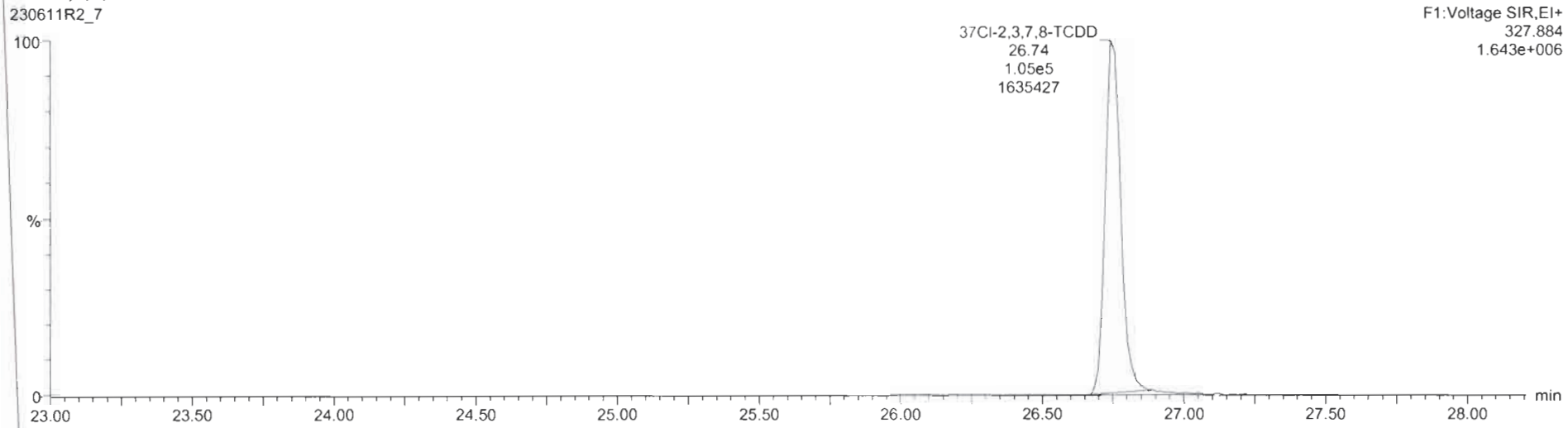
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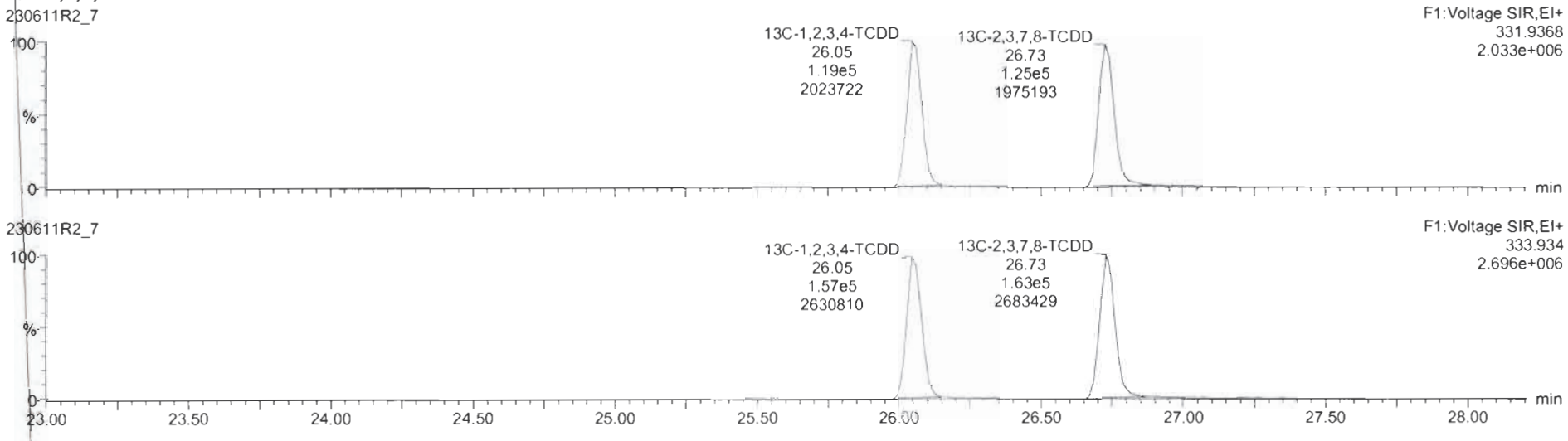
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37Cl-2,3,7,8-TCDD



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

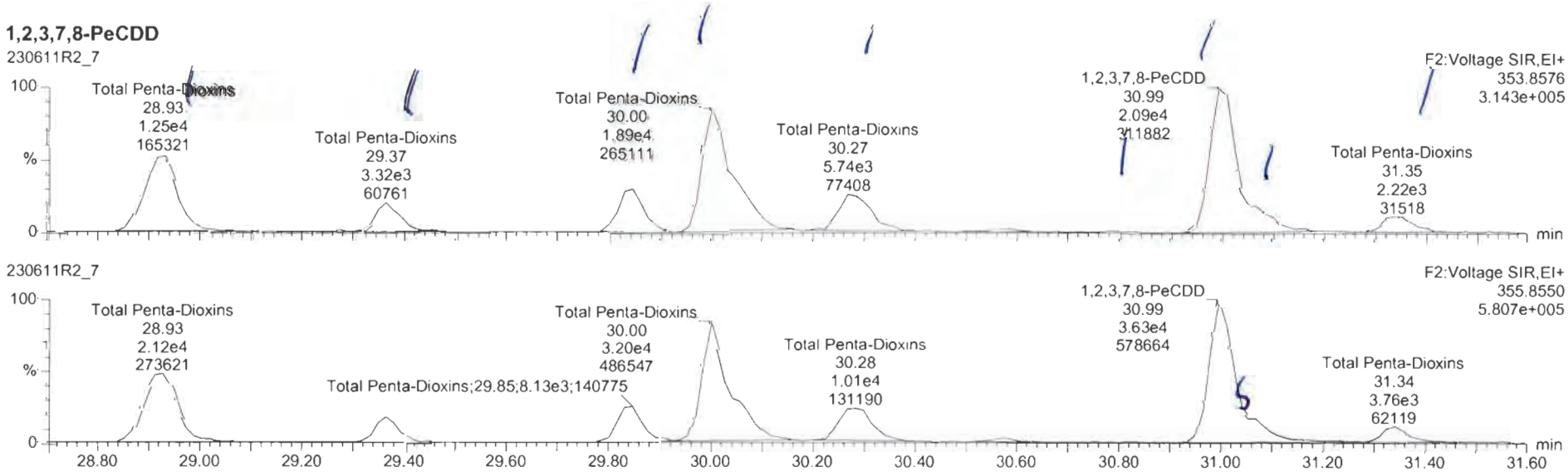


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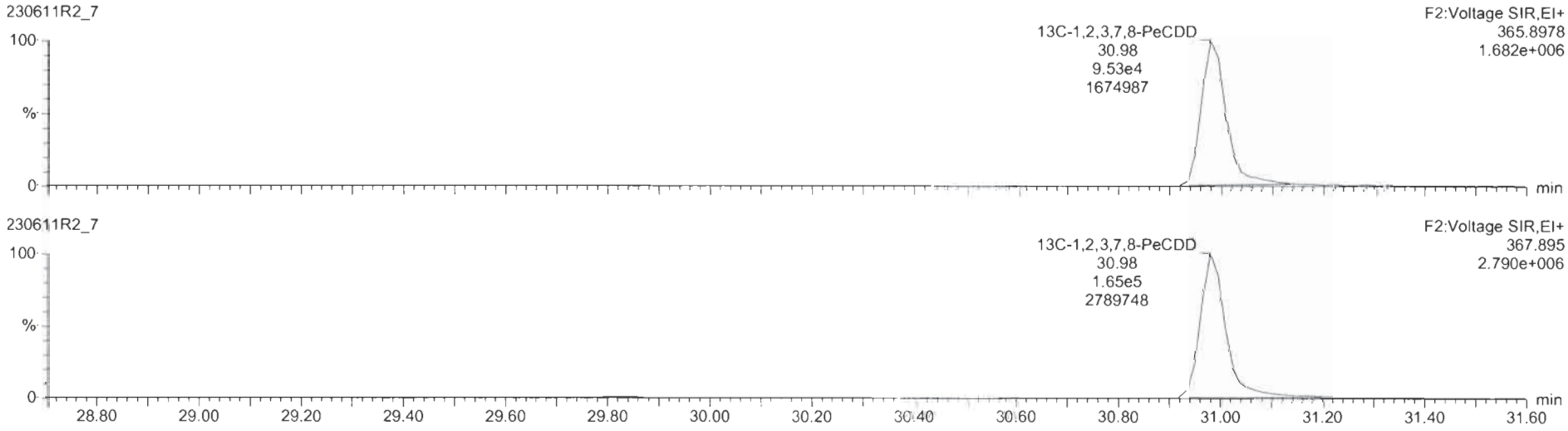
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1,2,3,7,8-PeCDD



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



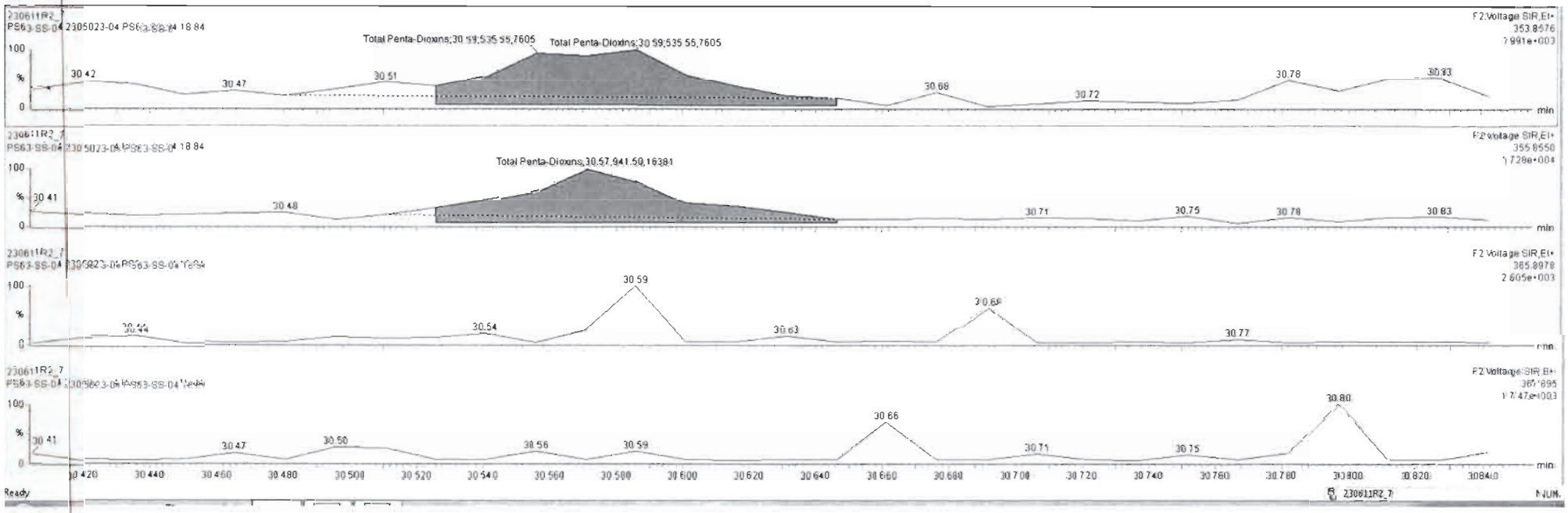
TargetLynx - 230611R2-7 * - [Chromatogram]

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230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9062	10.019			16.1		0.278	16.6
40	Total Penta-Dioxins				0.7442	10.019			194		0.579	194
41	Total Hexa-Dioxins				0.7821	10.019			3240		3.09	3240

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	28.93	1.249e4	2.119e4	0.59	NO	34.746	34.746
2	Total Penta-Dioxins	29.36	3.323e3	5.422e3	0.61	NO	9.0206	9.0206
3	Total Penta-Dioxins	29.85	5.006e3	8.127e3	0.62	NO	13.548	13.548
4	Total Penta-Dioxins	30.09	1.887e4	3.198e4	0.59	NO	52.458	52.458
5	Total Penta-Dioxins	30.27	5.742e3	1.006e4	0.57	NO	16.297	16.297
6	Total Penta-Dioxins	30.59	5.356e2	9.415e2	0.57	NO	1.5237	1.5237
7	1,2,3,7,8-PeCDD	30.99	1.825e4	3.139e4	0.58	NO	51.205	51.205
8	Total Penta-Dioxins	31.05	3.114e3	5.189e3	0.60	NO	8.5757	8.5757
9	Total Penta-Dioxins	31.35	2.463e3	4.089e3	0.60	NO	6.7590	6.7590



Ready

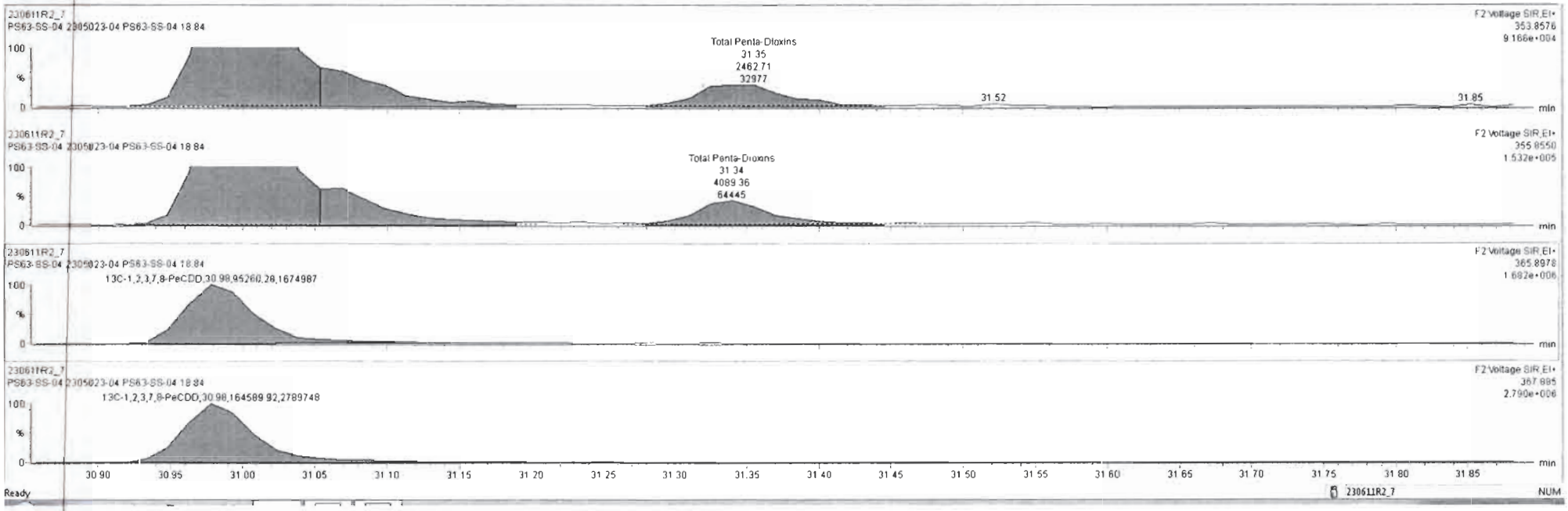
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18 84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9062	10.019			16.1		0.278	16.6
40	Total Penta-Dioxins				0.7447	10.019			194		0.579	194
41	Total Hexa-Dioxins				0.7821	10.019			3240		3.09	3240

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	28.93	1.249e4	2.119e4	0.59	NO	34.746	34.746
2	Total Penta-Dioxins	29.36	3.323e3	5.422e3	0.61	NO	9.0206	9.0206
3	Total Penta-Dioxins	29.85	5.006e3	8.127e3	0.62	NO	13.548	13.548
4	Total Penta-Dioxins	30.00	1.887e4	3.198e4	0.59	NO	52.458	52.458
5	Total Penta-Dioxins	30.27	5.742e3	1.006e4	0.57	NO	16.297	16.297
6	Total Penta-Dioxins	30.59	5.356e2	9.415e2	0.57	NO	1.5237	1.5237
7	1,2,3,7,8-PeCDD	30.99	1.825e4	3.139e4	0.58	NO	51.205	51.205
8	Total Penta-Dioxins	31.05	3.114e3	5.199e3	0.60	NO	8.5757	8.5757
9	Total Penta-Dioxins	31.35	2.463e3	4.089e3	0.60	NO	6.7590	6.7590

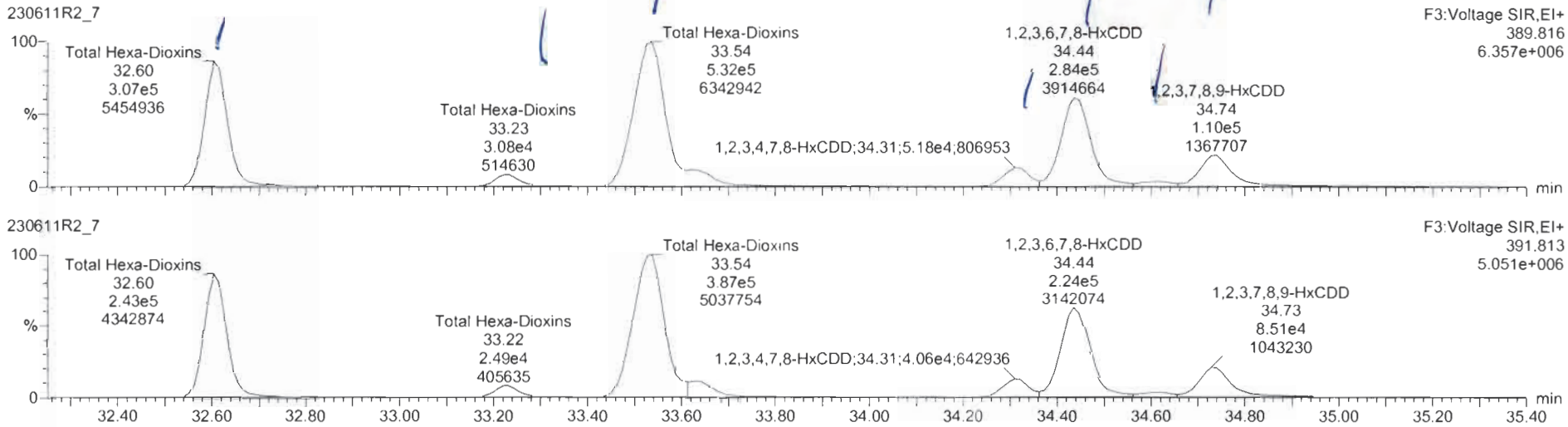


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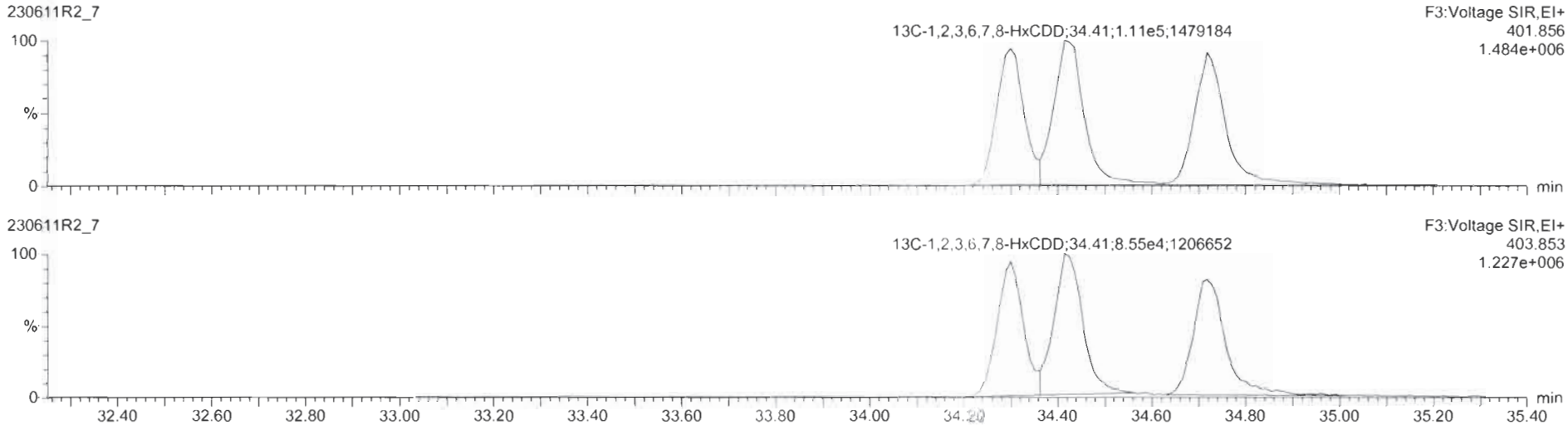
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: PS63-SS-04

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



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



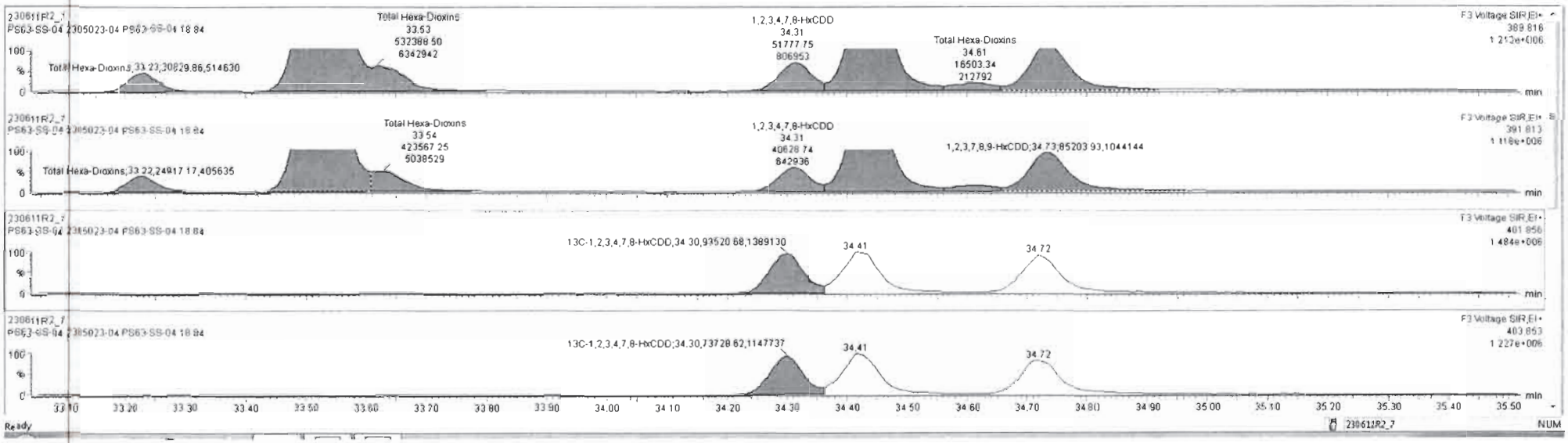
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Hexa-Dioxins				0.9062	10.019			16.1		0.278	16.6
40	Total Penta-Dioxins				0.7447	10.019			194		0.579	194
41	Total Hepta-Dioxins				0.7621	10.019			3290		3.06	3290

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	32.60	3.068e5	2.430e5	1.26	NO	788.93	788.93
2	Total Hexa-Dioxins	33.23	3.083e4	2.492e4	1.24	NO	77.971	77.971
3	Total Hexa-Dioxins	33.53	5.324e5	4.236e5	1.26	NO	1337.1	1337.1
4	1,2,3,4,7,8-HxCDD	34.31	5.178e4	4.063e4	1.27	NO	131.81	131.81
5	1,2,3,6,7,8-HxCDD	34.44	2.843e5	2.239e5	1.27	NO	658.78	658.78
6	Total Hexa-Dioxins	34.61	1.650e4	1.203e4	1.37	NO	39.910	39.910
7	1,2,3,7,8,9-HxCDD	34.74	1.104e5	8.520e4	1.30	NO	273.17	273.17

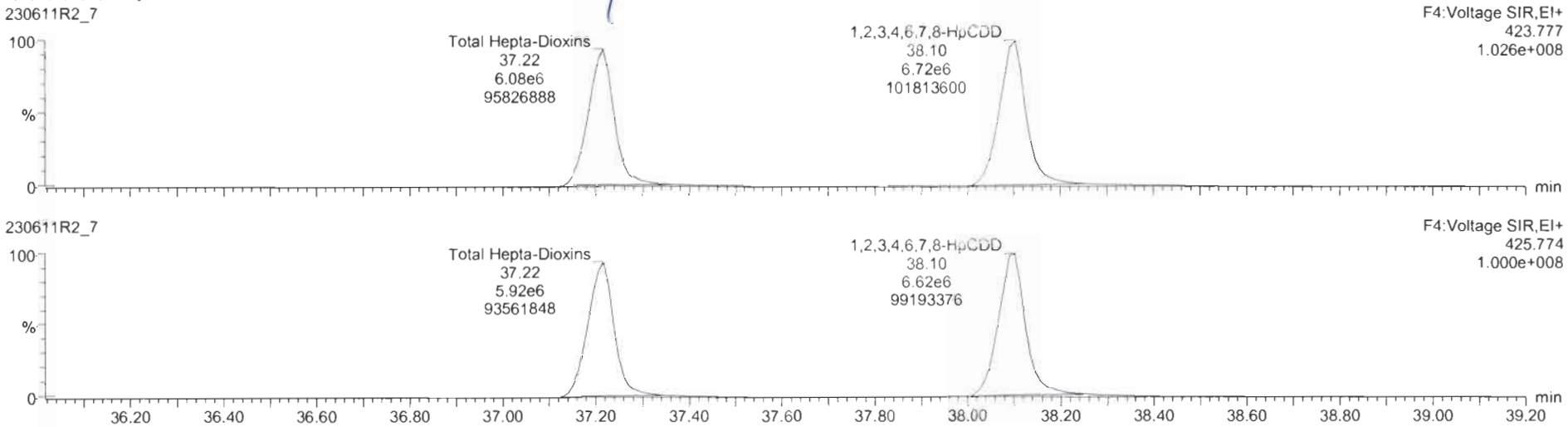


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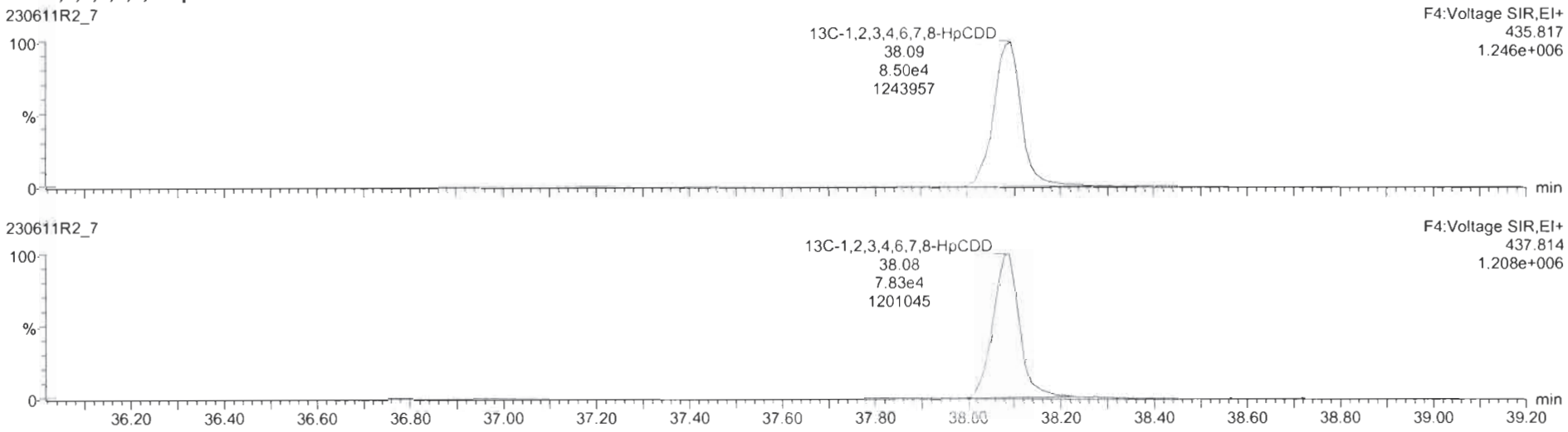
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: PS63-SS-04

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



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



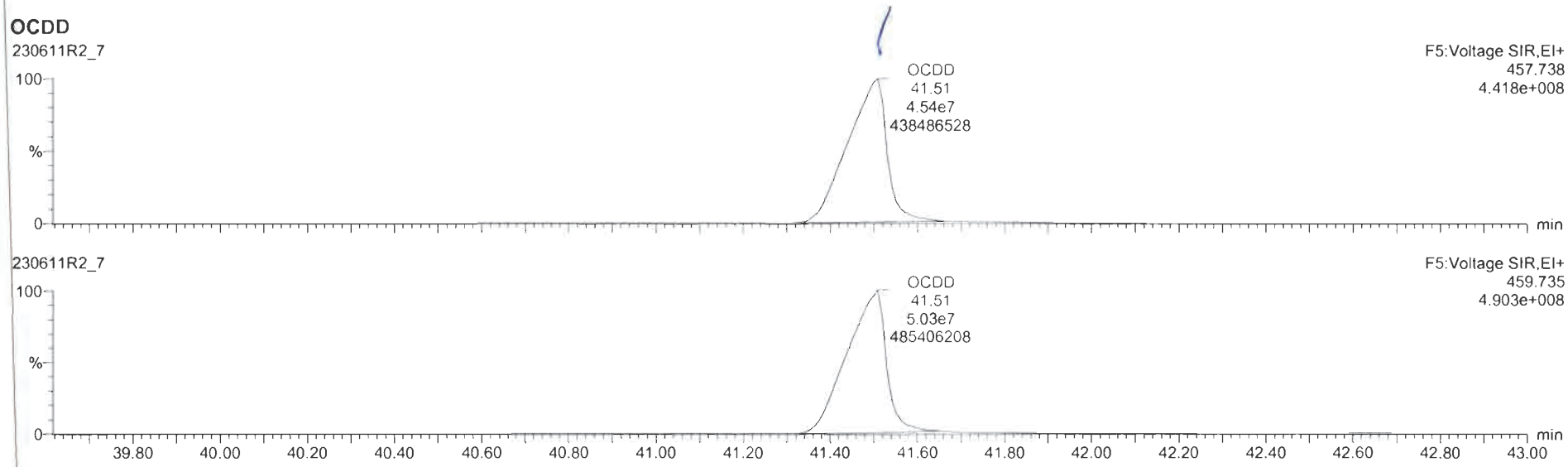
Enthalpy Analytical EDH VG-12

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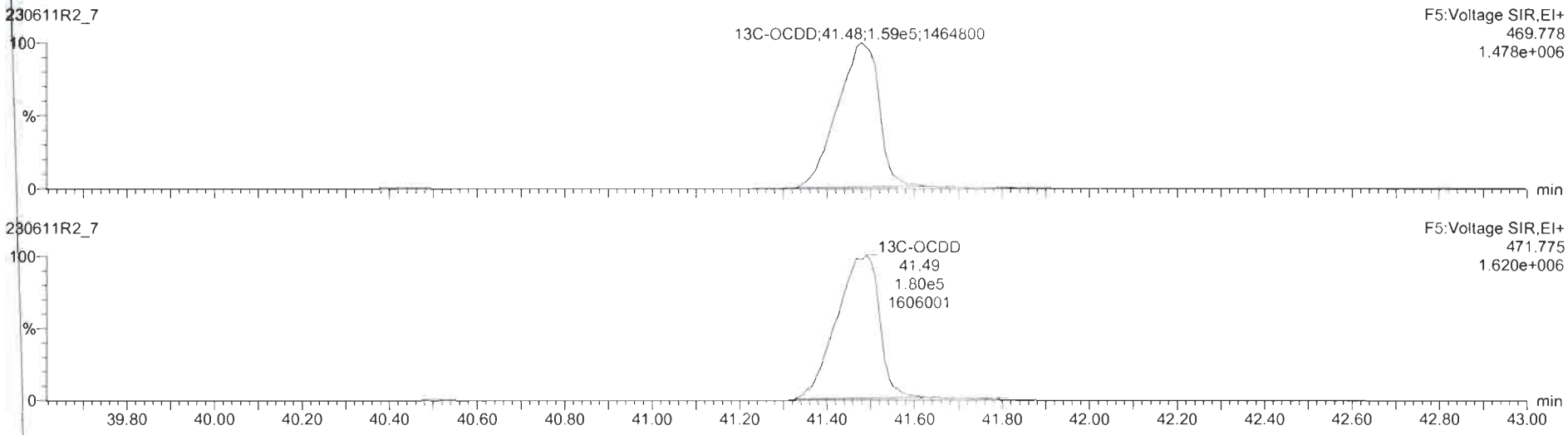
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Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: PS63-SS-04

OCDD



13C-OCDD

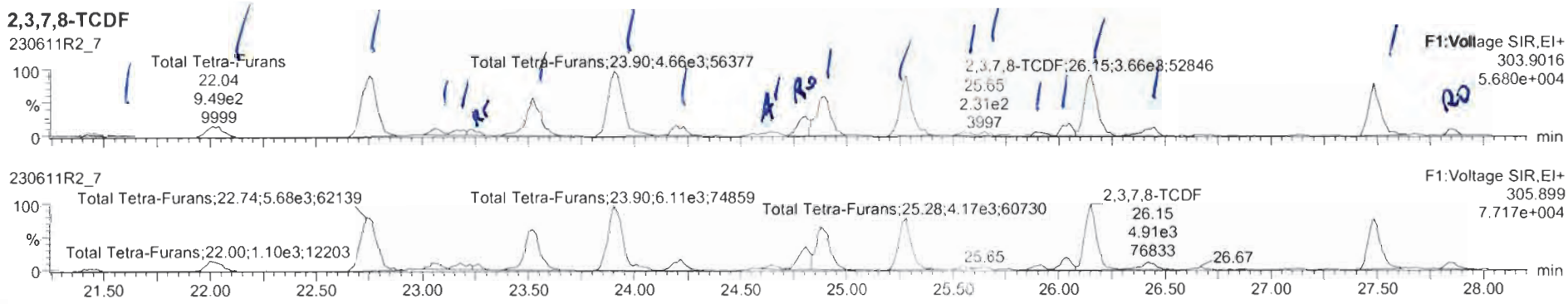


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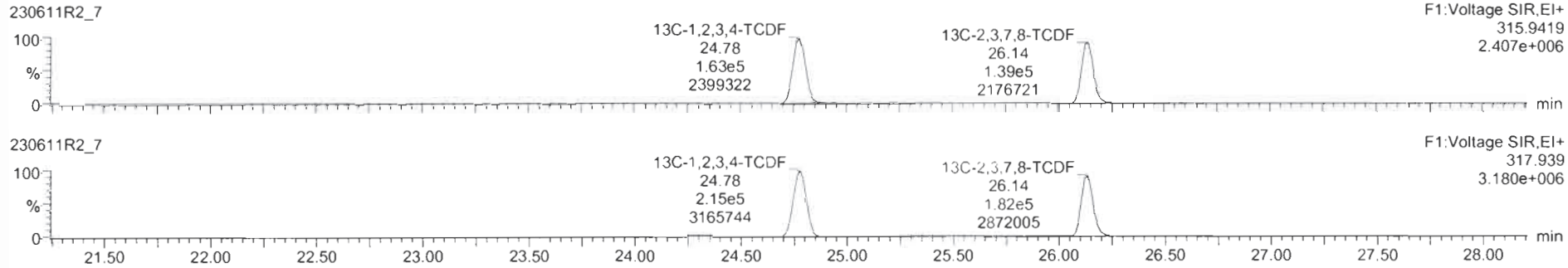
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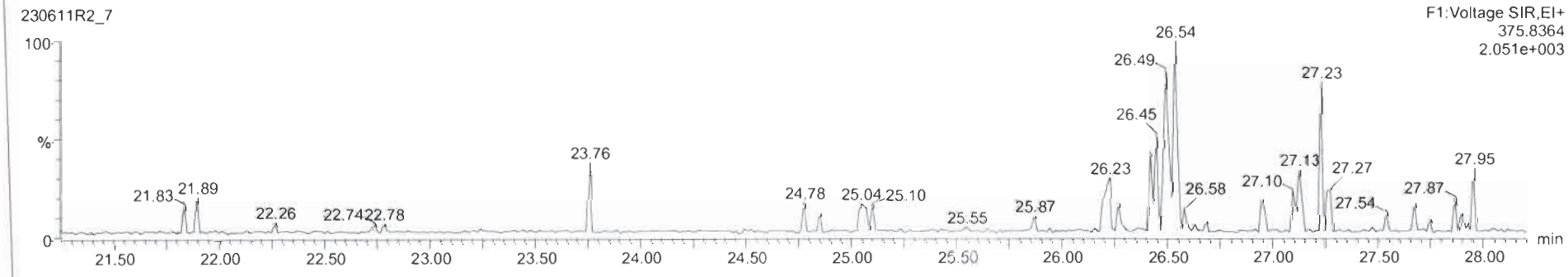
2,3,7,8-TCDF



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



DPE1



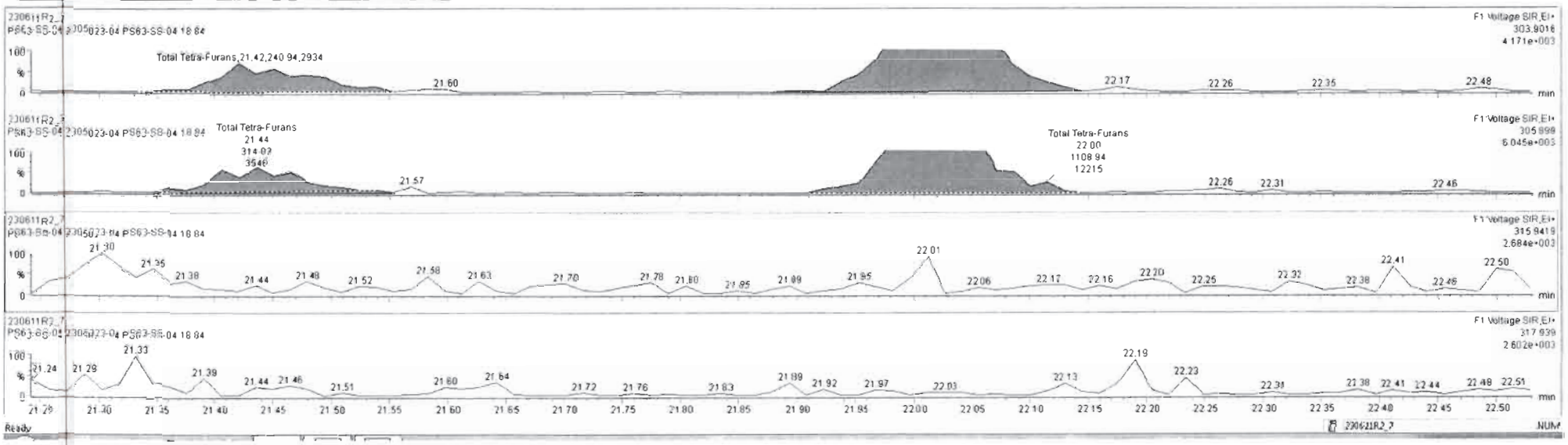
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	rdy	RRF	wtAvg	RT	RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9033	10.019			34300		6.85	34300
43	Total Tetra-Furans				0.8519	10.019			50.6		0.374	52.9
44	Total Penta-Furans				0.7575	10.019			399		0.0739	399

	Name	RT	m1 Resp	m2 Resp	RA	rdy	EMPC	Conc.
1	Total Tetra-Furans	21.42	9.409e2	3.140e2	0.77	NO	0.40483	0.40483
2	Total Tetra-Furans	22.04	9.489e2	1.109e3	0.86	NO	1.5011	1.5011
3	Total Tetra-Furans	22.75	4.443e3	5.677e3	0.78	NO	7.3815	7.3815
4	Total Tetra-Furans	23.06	5.161e2	7.132e2	0.73	NO	0.89674	0.89674
5	Total Tetra-Furans	23.17	4.277e2	5.445e2	0.79	NO	0.70915	0.70915
6	Total Tetra-Furans	23.22	4.046e2	5.369e2	0.75	NO	0.68577	0.68577
7	Total Tetra-Furans	23.52	2.962e3	4.185e3	0.71	NO	5.1987	5.1987
8	Total Tetra-Furans	23.90	4.824e3	6.172e3	0.78	NO	8.0211	8.0211
9	Total Tetra-Furans	24.20	8.192e2	9.520e2	0.86	NO	1.2920	1.2920
10	Total Tetra-Furans	24.81	9.801e2	1.669e3	0.59	YES	1.6434	0.00000
11	Total Tetra-Furans	24.89	3.030e3	3.822e3	0.79	NO	4.8981	4.8981
12	Total Tetra-Furans	25.28	3.309e3	4.184e3	0.81	NO	5.5320	5.5320
13	Total Tetra-Furans	25.89	2.758e2	3.659e2	0.75	NO	0.46813	0.46813
14	Total Tetra-Furans	26.05	6.856e2	8.638e2	0.77	NO	1.1156	1.1156
15	2,3,7,8-TCDF	26.15	3.885e3	4.908e3	0.75	NO	6.2538	6.2538
16	Total Tetra-Furans	26.45	6.783e2	8.046e2	0.84	NO	1.0818	1.0818
17	Total Tetra-Furans	27.48	2.904e3	4.062e3	0.71	NO	5.0816	5.0816
18	Total Tetra-Furans	27.84	3.762e2	5.818e2	0.65	YES	0.63083	0.00000



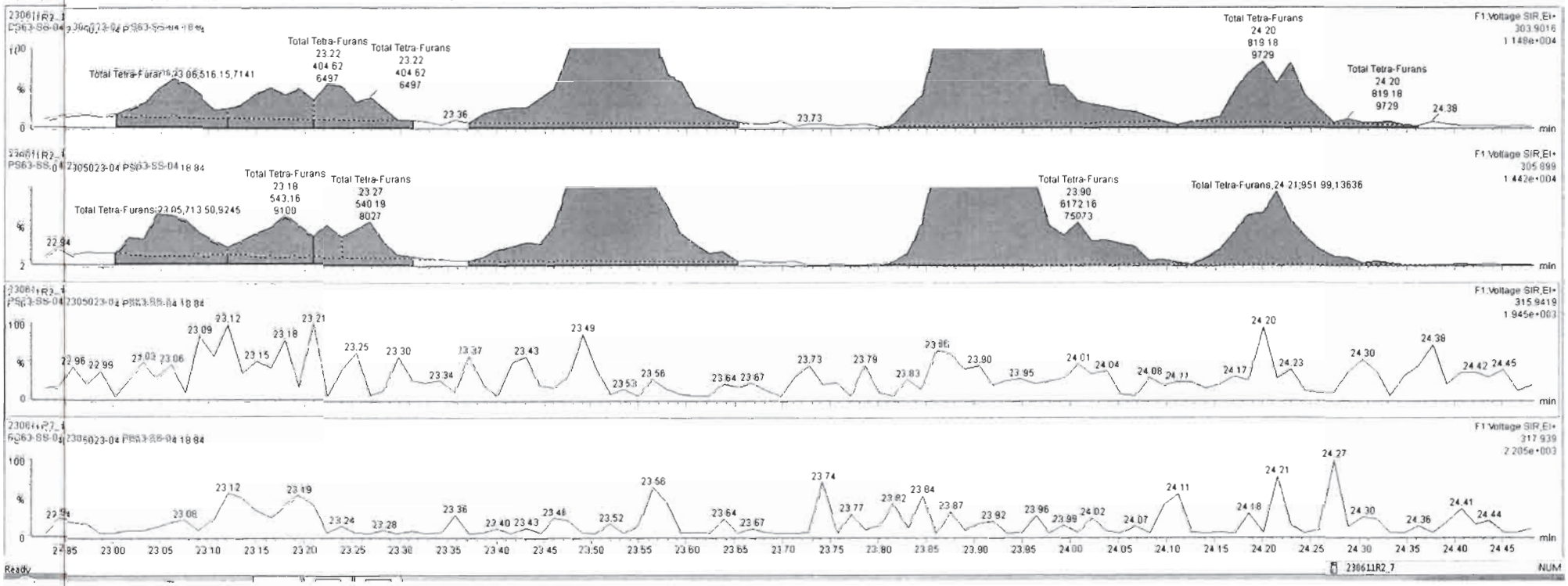
TargetLynx - 230611R2_7 - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9039	10.019			34.300		6.85	34.300
43	Total Tetra-Furans				0.8519	10.019			50.6		0.374	52.9
44	1st Func. Penta-Furans				0.7575	10.019			399		0.0739	399

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	21.42	2.409e2	3.140e2	0.77	NO	0.40483	0.40483
2	Total Tetra-Furans	22.04	9.489e2	1.109e3	0.86	NO	1.5011	1.5011
3	Total Tetra-Furans	22.19	4.443e3	5.677e3	0.78	NO	7.3816	7.3816
4	Total Tetra-Furans	23.05	5.161e2	7.135e2	0.72	NO	0.89698	0.89698
5	Total Tetra-Furans	23.17	4.277e2	5.432e2	0.79	NO	0.70819	0.70819
6	Total Tetra-Furans	23.22	4.046e2	5.402e2	0.75	NO	0.68920	0.68920
7	Total Tetra-Furans	23.62	2.962e3	4.165e3	0.71	NO	5.1987	5.1987
8	Total Tetra-Furans	23.90	4.624e3	6.172e3	0.78	NO	8.0211	8.0211



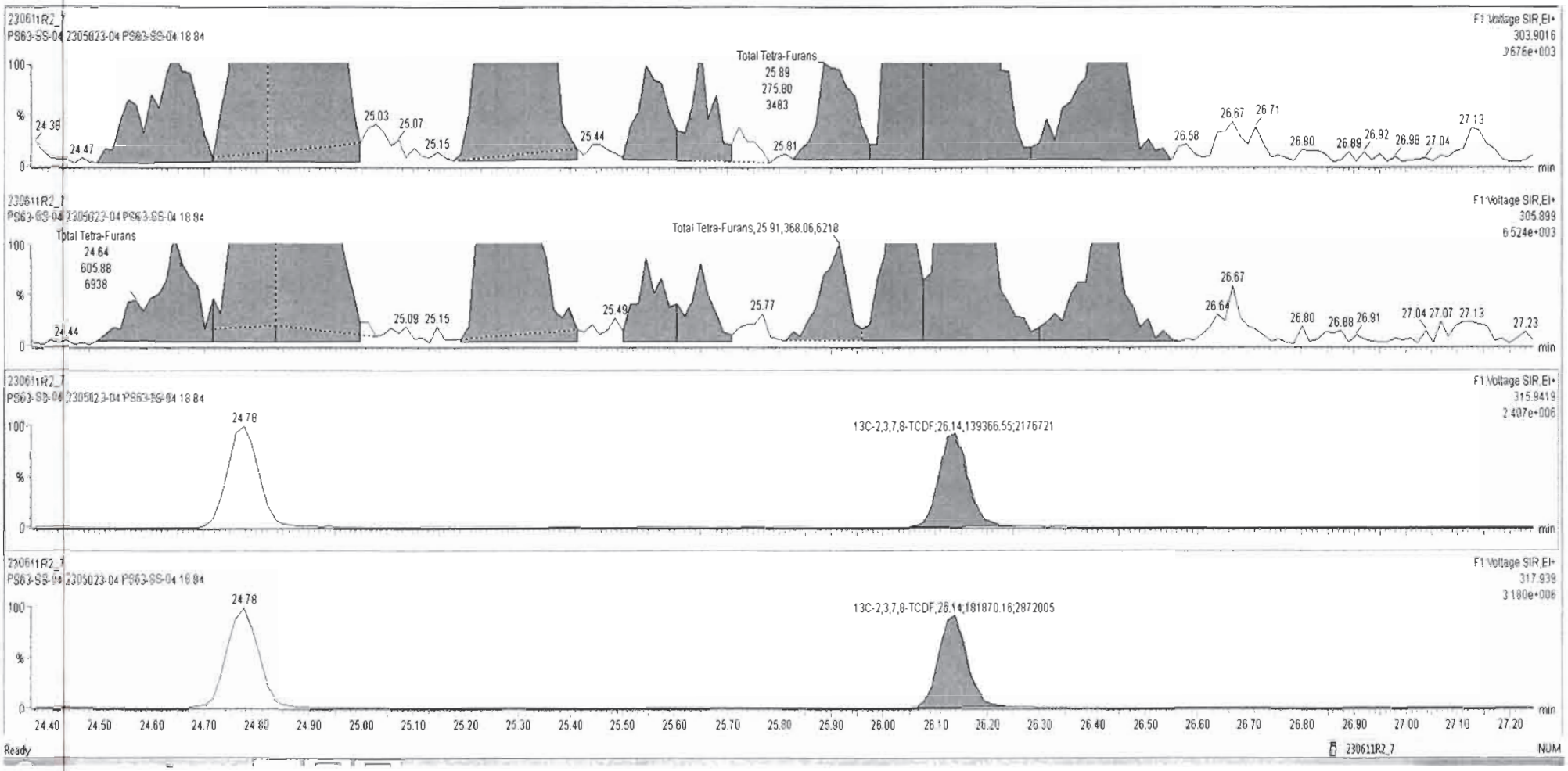
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9033	10.019			34300		6.85	34300
43	Total Tetra-Furans				0.8519	10.019			50.8		0.374	53.9
44	1st Func. Penta-Furans				0.7575	10.019			399		0.0739	399

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	21.42	2.409e2	3.140e2	0.77	NO	0.40483	0.40483
2	Total Tetra-Furans	22.04	9.489e2	1.109e3	0.86	NO	1.5011	1.5011
3	Total Tetra-Furans	22.75	4.443e3	5.677e3	0.78	NO	7.3816	7.3816
4	Total Tetra-Furans	23.06	5.161e2	7.135e2	0.72	NO	0.89698	0.89698
5	Total Tetra-Furans	23.17	4.277e2	5.432e2	0.79	NO	0.70819	0.70819
6	Total Tetra-Furans	23.52	2.962e3	4.165e3	0.71	NO	5.1987	5.1987
7	Total Tetra-Furans	23.90	4.824e3	6.172e3	0.78	NO	8.0211	8.0211
8	Total Tetra-Furans	24.20	8.192e2	9.520e2	0.86	NO	1.2920	1.2920



Ready 230611R2_7 NUM

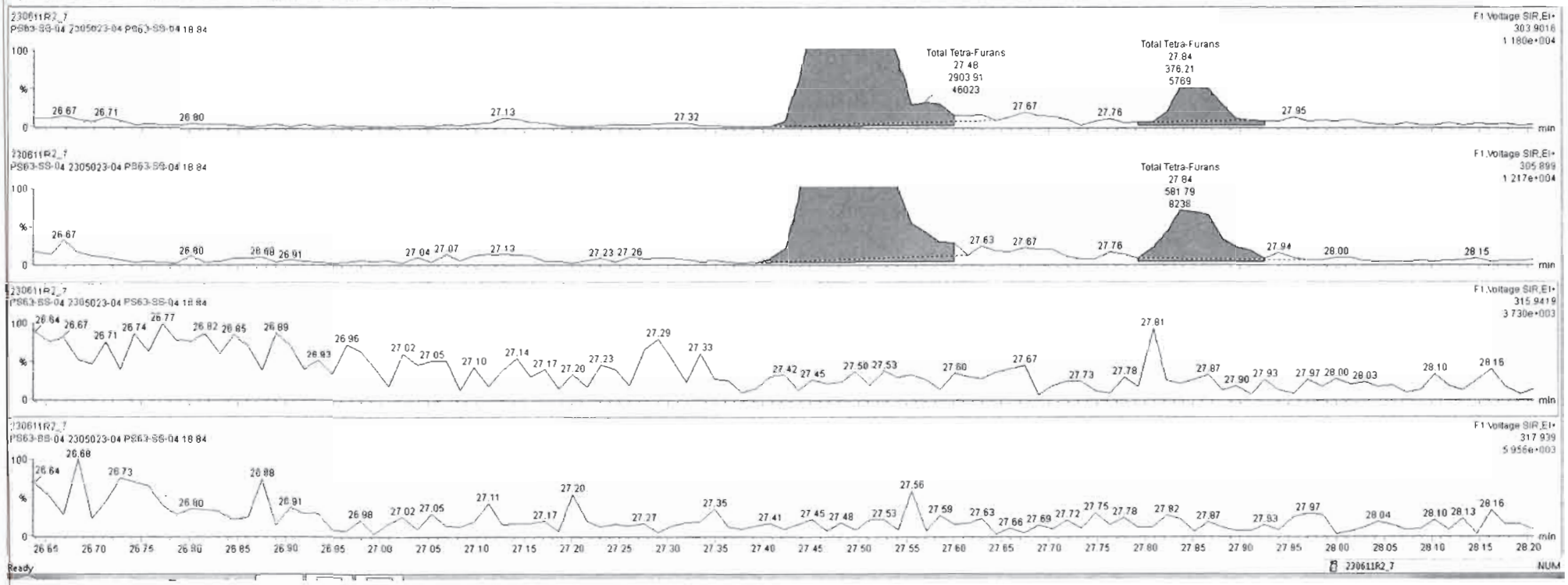
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18 84 - PS63-SS-04

	Name	Resp	RA	rdy	RRF	wtAvg	RT	RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9033	10.019			34300		6.85	34300
43	Total Tetra-Furans				0.8519	10.019			50.8		0.374	53.9
44	1st Func. Penta-Furans				0.7575	10.019			399		0.0739	399

	Name	RT	m1 Resp	m2 Resp	RA	rdy	EMPC	Conc.
1	Total Tetra-Furans	21.42	2.409e2	3.140e2	0.77	NO	0.40483	0.40483
2	Total Tetra-Furans	22.04	9.489e2	1.109e3	0.86	NO	1.5011	1.5011
3	Total Tetra-Furans	22.75	4.443e3	5.677e3	0.78	NO	7.3816	7.3816
4	Total Tetra-Furans	23.06	5.161e2	7.135e2	0.72	NO	0.89698	0.89698
5	Total Tetra-Furans	23.17	4.277e2	5.432e2	0.79	NO	0.70819	0.70819
6	Total Tetra-Furans	23.52	2.962e3	4.165e3	0.71	NO	5.1987	5.1987
7	Total Tetra-Furans	23.90	4.824e3	6.172e3	0.78	NO	8.0211	8.0211
8	Total Tetra-Furans	24.20	8.192e2	9.520e2	0.86	NO	1.2920	1.2920



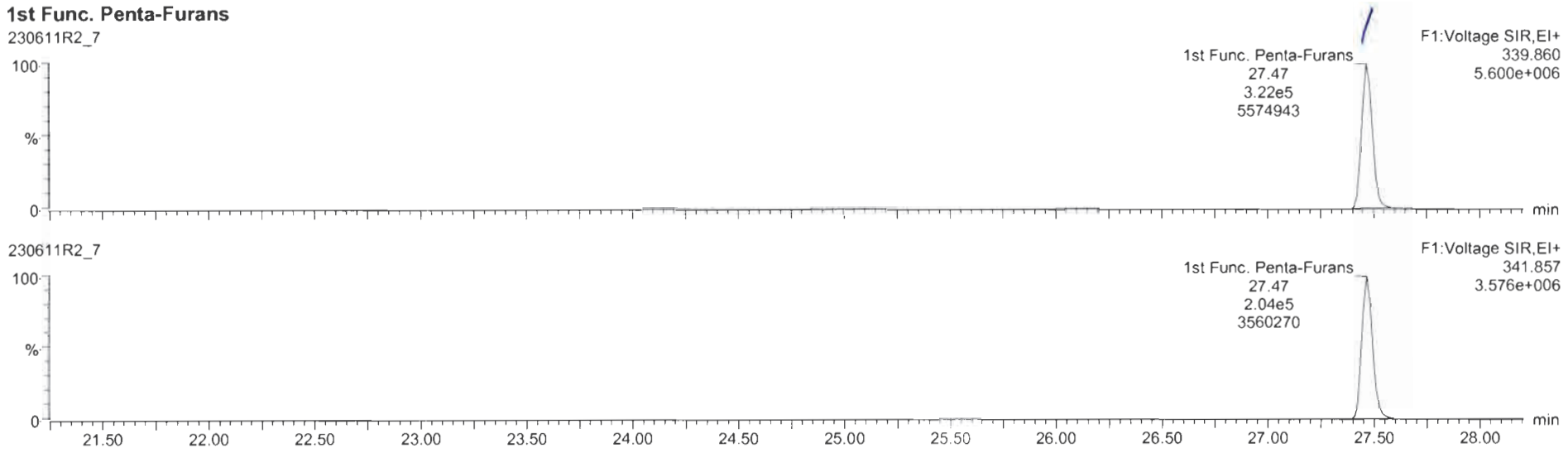
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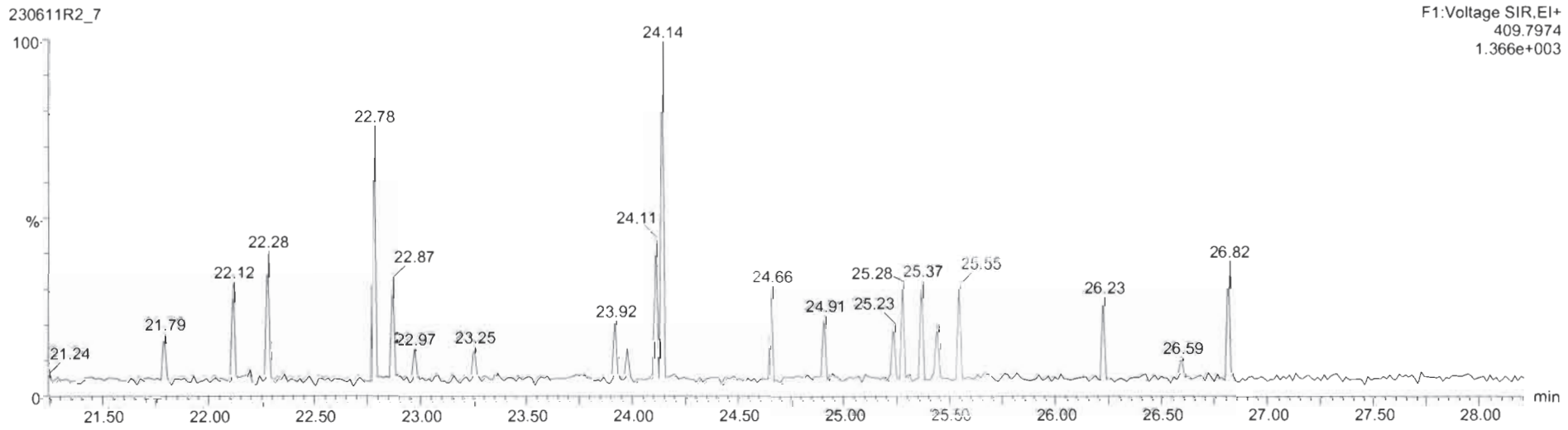
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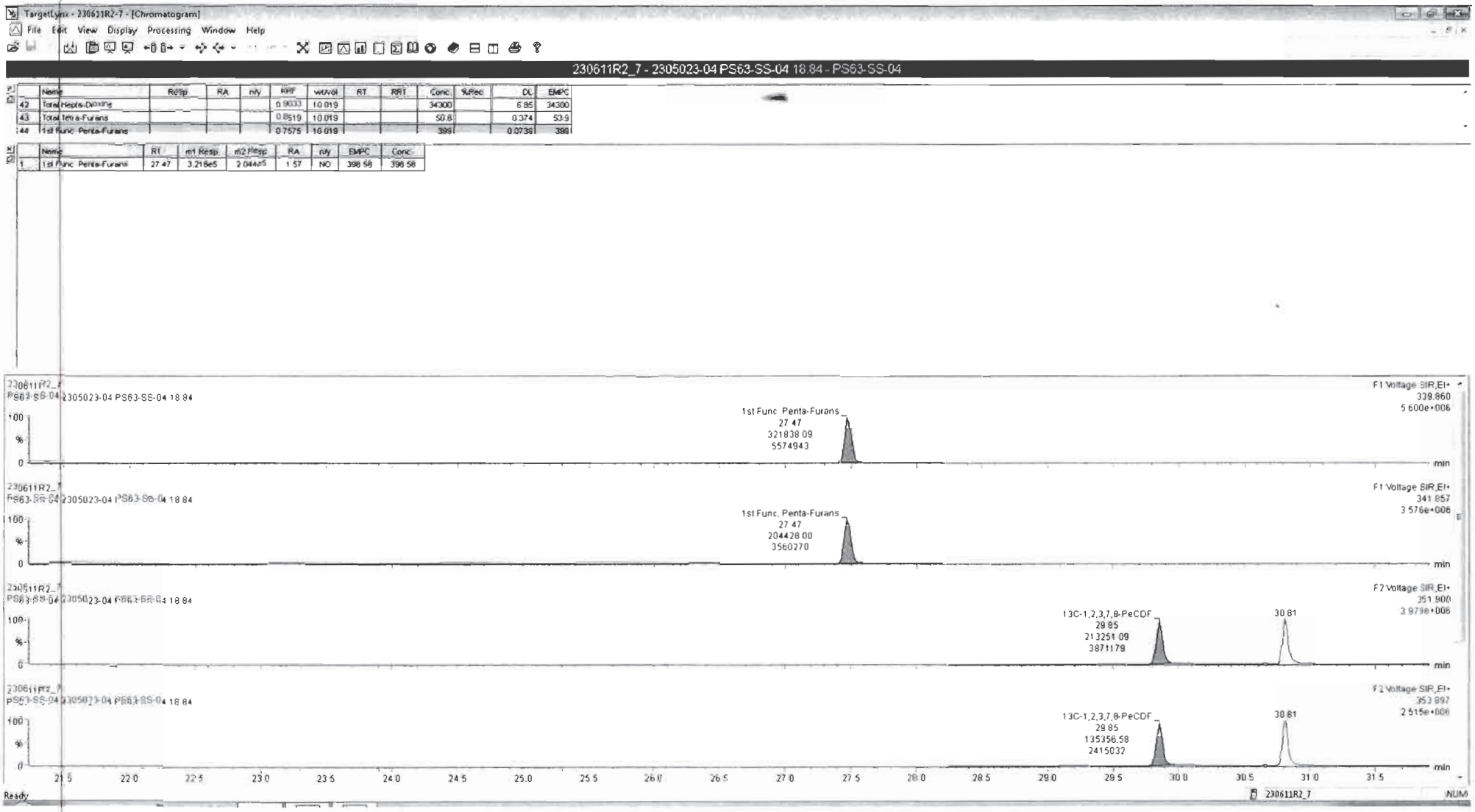
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1st Func. Penta-Furans



DPE6





	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9033	10.019			34300		6.85	34300
43	Total Tetra-Furans				0.8519	10.019			50.8		0.374	53.9
44	1st Func. Penta-Furans				0.7575	10.019			399		0.0738	398

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1st Func. Penta-Furans	27.47	3.216e5	2.044e5	1.57	NO	398.58	396.58

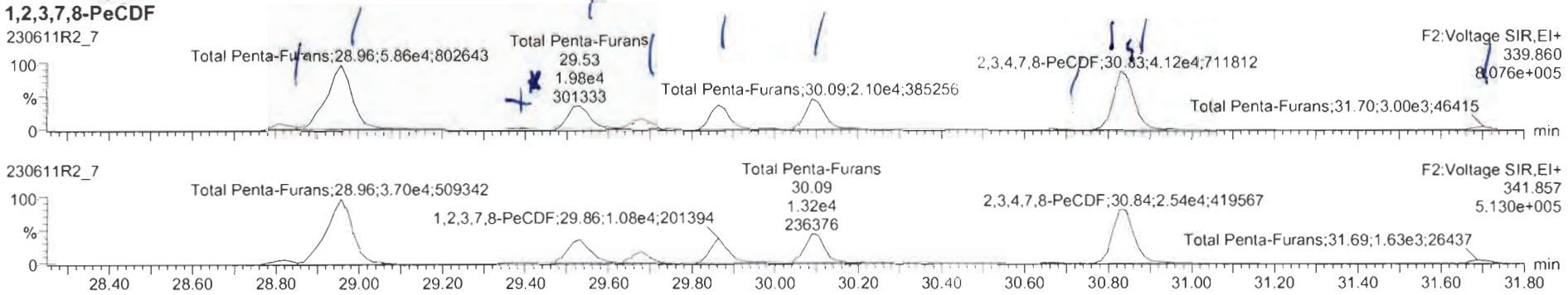
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

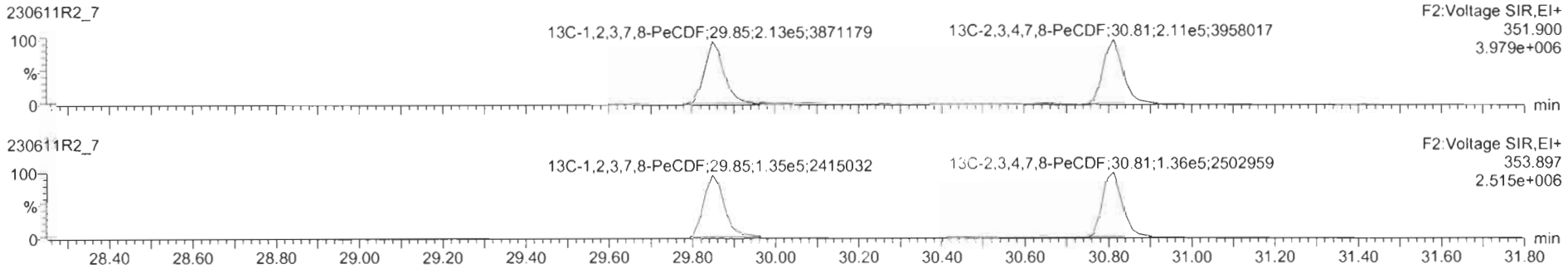
* June 06/12/2023

Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: PS63-SS-04

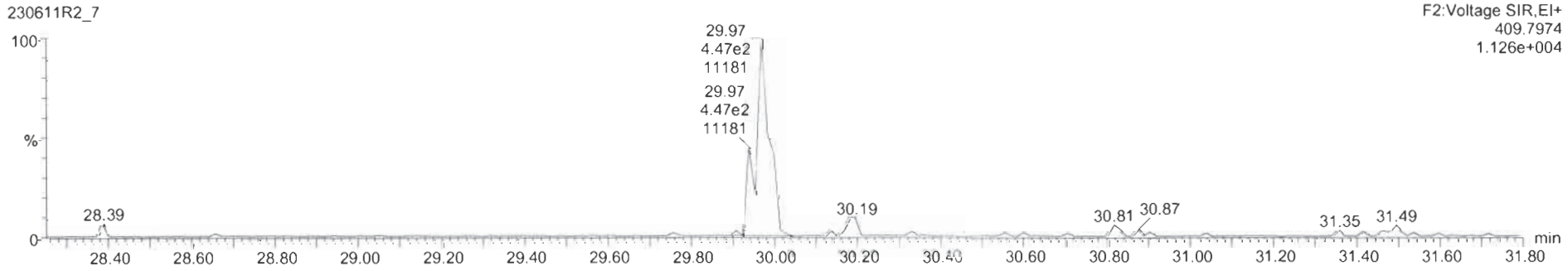
1,2,3,7,8-PeCDF

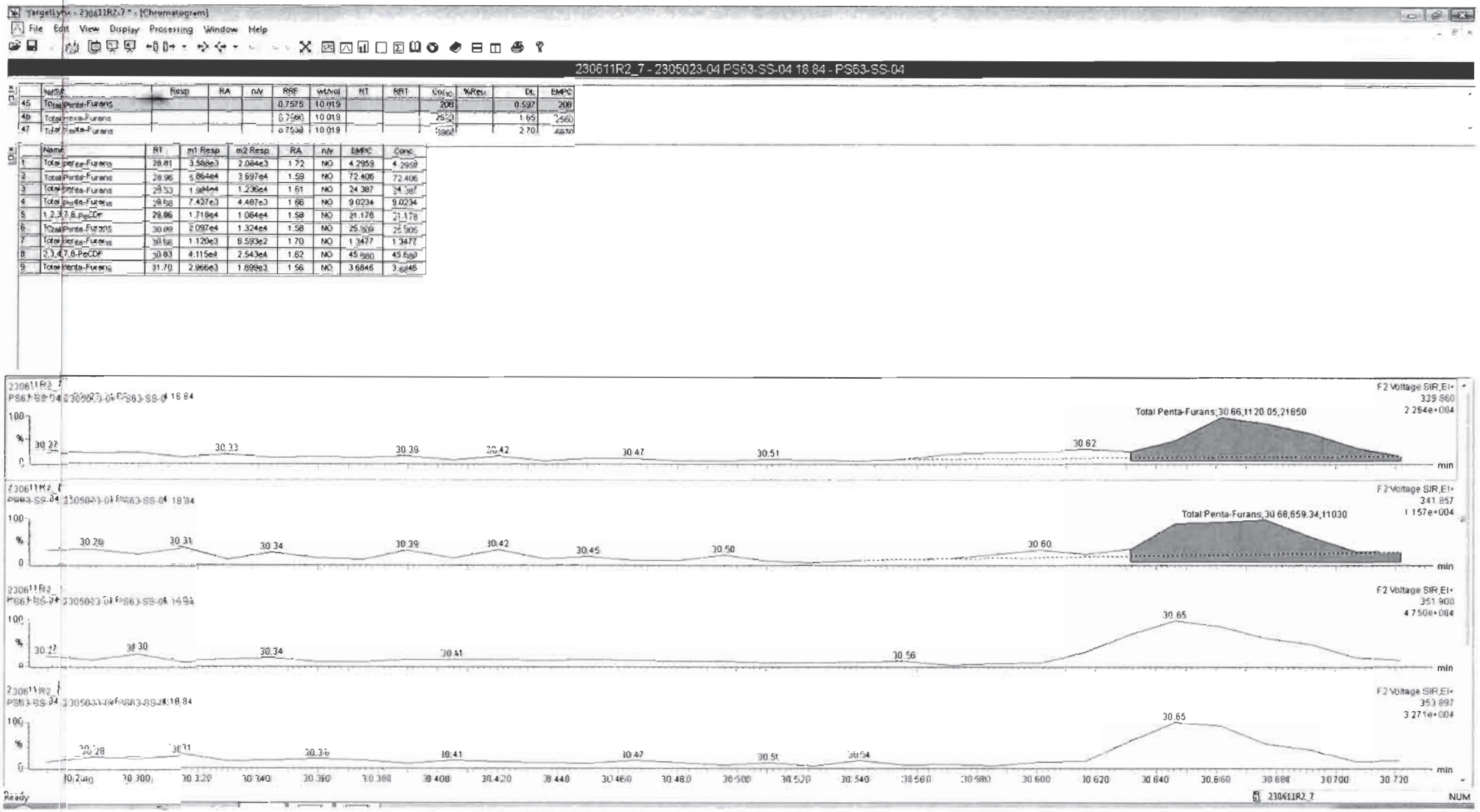


13C-1,2,3,7,8-PeCDF



DPE2





	Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.7575	10.019			208		0.597	208
46	Total Hexa-Furans				0.7560	10.019			2550		1.65	2560
47	Total Hepta-Furans				0.7538	10.019			5960		2.70	5970

	Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1	Total Penta-Furans	28.81	3.588e3	2.084e3	1.72	NO	4.2959	4.2959
2	Total Penta-Furans	28.96	5.864e4	3.697e4	1.59	NO	72.406	72.406
3	Total Penta-Furans	29.53	1.994e4	1.236e4	1.61	NO	24.387	24.387
4	Total Penta-Furans	29.58	7.427e3	4.487e3	1.66	NO	9.0234	9.0234
5	1,2,3,7,8-PeCDF	29.86	1.718e4	1.084e4	1.58	NO	21.178	21.178
6	Total Penta-Furans	30.09	2.097e4	1.324e4	1.58	NO	25.906	25.906
7	Total Penta-Furans	30.66	1.120e3	6.593e2	1.70	NO	1.3477	1.3477
8	2,3,4,7,8-PeCDF	30.83	4.115e4	2.543e4	1.62	NO	45.880	45.880
9	Total Penta-Furans	31.70	2.966e3	1.899e3	1.56	NO	3.6846	3.6846

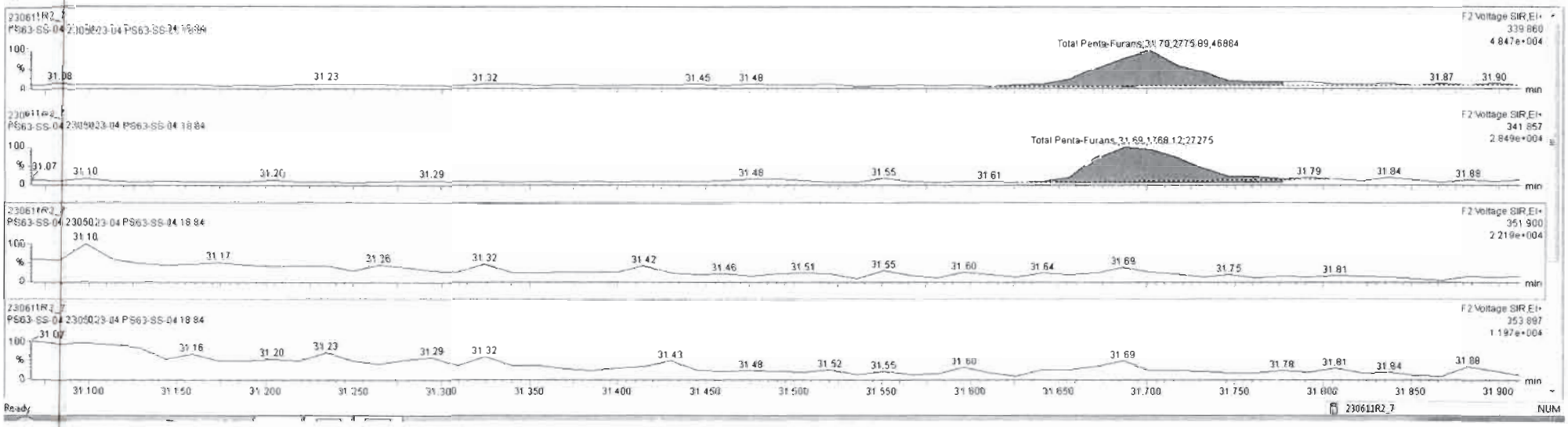
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.7575	10.019			208		0.597	208
46	Total Hexa-Furans				0.7560	10.019			2550		1.95	2560
47	Total Hepta-Furans				0.7539	10.019			5960		2.70	5970

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.91	3.588e3	2.094e3	1.72	NO	4.2958	4.2958
2	Total Penta-Furans	28.96	5.864e4	3.697e4	1.59	NO	72.406	72.406
3	Total Penta-Furans	29.53	1.984e4	1.236e4	1.61	NO	24.387	24.387
4	Total Penta-Furans	29.68	7.427e3	4.497e3	1.66	NO	9.0234	9.0234
5	1,2,3,7,8-PeCDF	29.86	1.718e4	1.084e4	1.58	NO	21.178	21.178
6	Total Penta-Furans	30.09	2.097e4	1.324e4	1.58	NO	25.905	25.905
7	Total Penta-Furans	30.69	1.120e3	6.593e2	1.70	NO	1.3477	1.3477
8	2,3,4,7,8-PeCDF	30.83	4.115e4	2.543e4	1.62	NO	45.880	45.880
9	Total Penta-Furans	31.70	2.776e3	1.768e3	1.57	NO	3.4415	3.4415



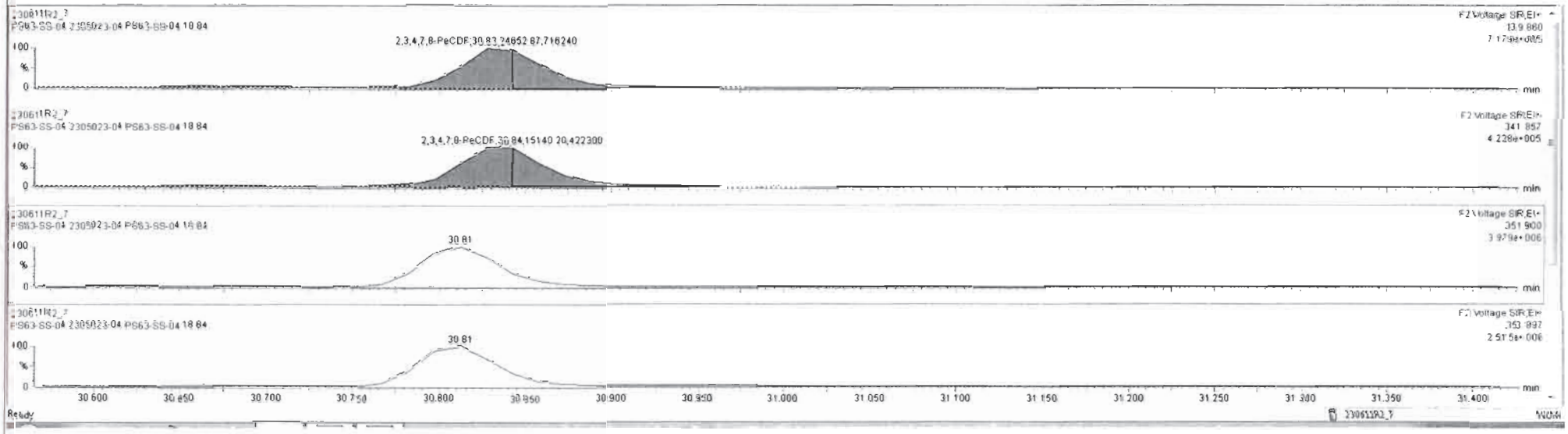
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.7575	10.019			211		0.597	211
46	Total Hexa-Furans				0.7560	10.019			2550		1.65	2560
47	Total Hepta-Furans				0.7539	10.019			5960		2.70	5970

	Name	RT	m1 resp	m2 resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.81	3.588e3	2.084e3	1.72	NO	4.2959	4.2959
2	Total Hepta-Furans	28.96	5.864e4	3.697e4	1.59	NO	72.406	72.406
3	Total Hepta-Furans	29.51	1.984e4	1.236e4	1.61	NO	24.387	24.387
4	Total Penta-Furans	29.62	7.427e3	4.487e3	1.66	NO	9.0234	9.0234
5	1,2,3,7,8-PeCDF	29.86	1.718e4	1.084e4	1.58	NO	21.178	21.178
6	Total Hepta-Furans	30.09	2.097e4	1.324e4	1.58	NO	25.905	25.905
7	Total Hepta-Furans	30.62	1.120e3	6.593e2	1.70	NO	1.3477	1.3477
8	2,3,4,7,8-PeCDF	30.83	2.465e4	1.514e4	1.63	NO	27.419	27.419
9	Total Penta-Furans	30.84	1.760e4	1.078e4	1.63	NO	21.500	21.500
10	Total Penta-Furans	31.70	2.776e3	1.768e3	1.57	NO	3.4415	3.4415

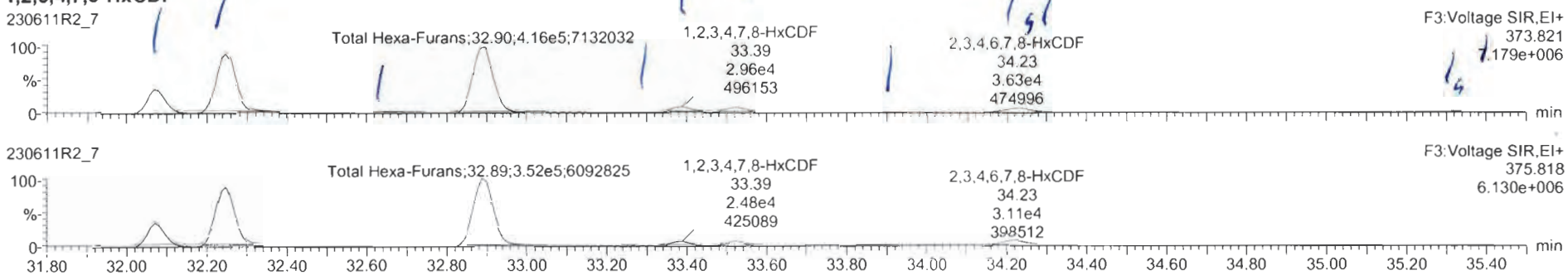


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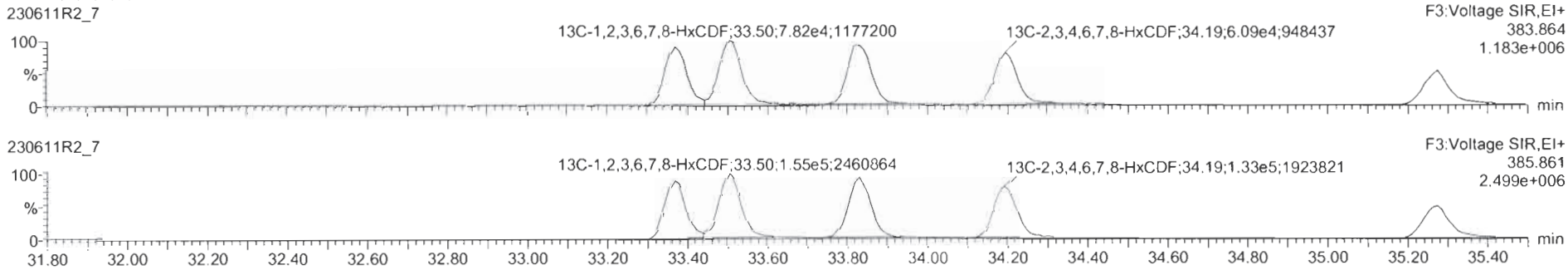
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Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: PS63-SS-04

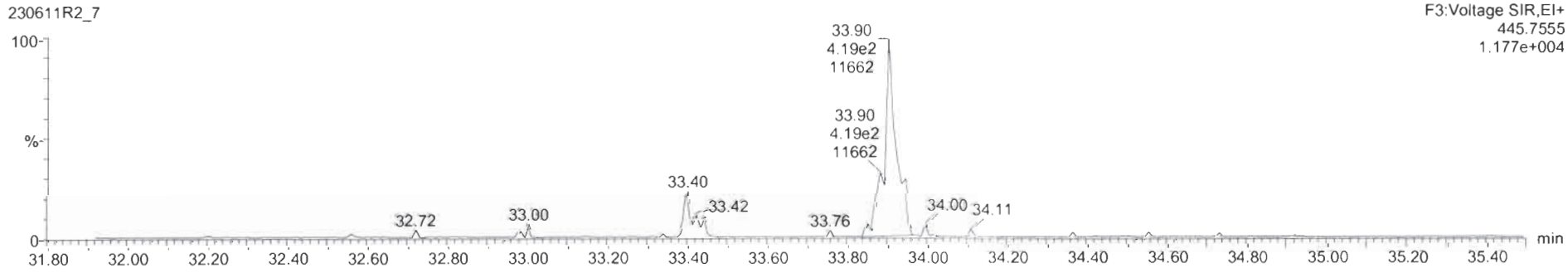
1,2,3,4,7,8-HxCDF



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



DPE3



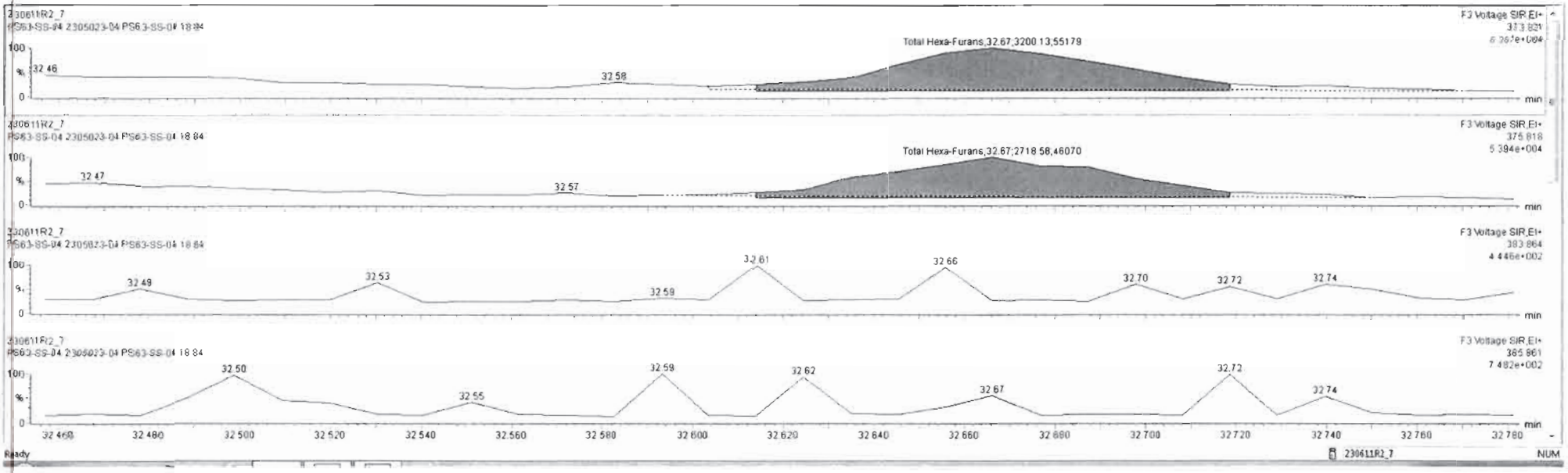
TargetLynx - 230611R2-7 * - [Chromatogram]

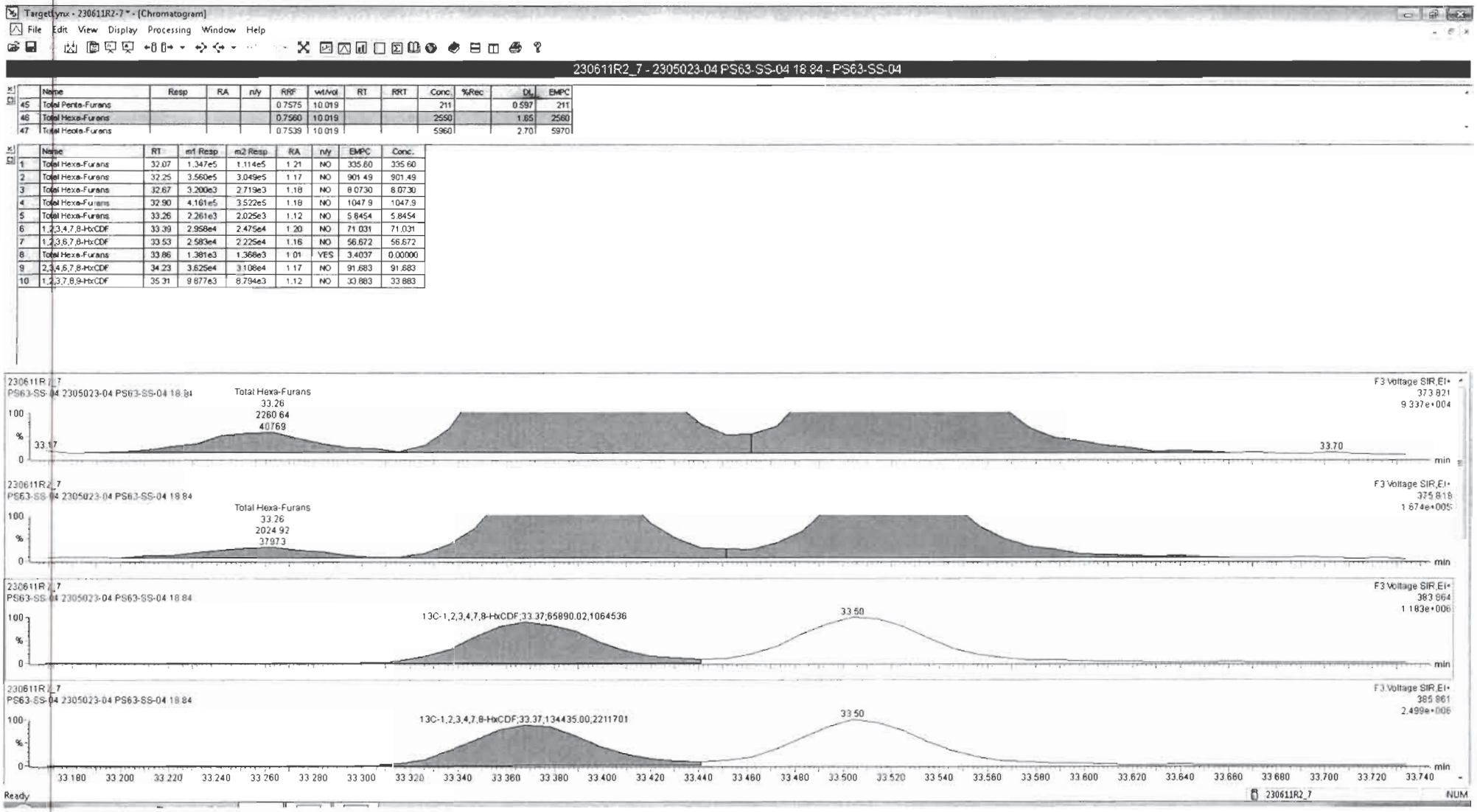
File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.7575	10.019			211		0.597	211
46	Total Hexa-Furans				0.7560	10.019			2560		1.65	2560
47	Total Hepta-Furans				0.7539	10.019			5960		2.70	5970

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.07	1.347e5	1.114e5	1.21	NO	335.60	335.60
2	Total Hexa-Furans	32.25	3.560e5	3.049e5	1.17	NO	901.49	901.49
3	Total Hexa-Furans	32.67	3.200e3	2.719e3	1.18	NO	8.0730	8.0730
4	Total Hexa-Furans	32.90	4.161e5	3.522e5	1.18	NO	1047.9	1047.9
5	Total Hexa-Furans	33.26	2.261e3	2.025e3	1.12	NO	5.8454	5.8454
6	1,2,3,4,7,8-HxCDF	33.39	2.958e4	2.475e4	1.20	NO	71.031	71.031
7	1,2,3,6,7,8-HxCDF	33.53	2.583e4	2.226e4	1.16	NO	56.672	56.672
8	Total Hexa-Furans	33.86	1.598e3	1.217e3	1.31	NO	3.8396	3.8396
9	2,3,4,6,7,8-HxCDF	34.22	1.238e4	1.116e4	1.11	NO	32.085	32.085
10	Total Hexa-Furans	34.23	2.454e4	2.033e4	1.21	NO	61.199	61.199
11	1,2,3,7,8,9-HxCDF	35.30	4.249e3	3.855e3	1.10	NO	14.706	14.706
12	Total Hexa-Furans	35.32	6.831e3	5.743e3	1.19	NO	17.150	17.150





	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.7575	10.019			211		0.597	211
46	Total Hexa-Furans				0.7560	10.019			2550		1.65	2560
47	Total Hepta-Furans				0.7539	10.019			5960		2.70	5970

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.07	1.347e5	1.114e5	1.21	NO	335.60	335.60
2	Total Hexa-Furans	32.25	3.560e5	3.049e5	1.17	NO	901.49	901.49
3	Total Hexa-Furans	32.67	3.200e3	2.719e3	1.18	NO	8.0730	8.0730
4	Total Hexa-Furans	32.90	4.161e5	3.522e5	1.18	NO	1047.9	1047.9
5	Total Hexa-Furans	33.26	2.261e3	2.025e3	1.12	NO	5.8454	5.8454
6	1,2,3,4,7,8-HxCDF	33.39	2.958e4	2.475e4	1.20	NO	71.031	71.031
7	1,2,3,6,7,8-HxCDF	33.53	2.583e4	2.225e4	1.16	NO	56.672	56.672
8	Total Hexa-Furans	33.86	1.381e3	1.368e3	1.01	YES	3.4037	0.00000
9	2,3,4,6,7,8-HxCDF	34.23	3.625e4	3.108e4	1.17	NO	91.683	91.683
10	1,2,3,7,8,9-HxCDF	35.31	9.877e3	8.794e3	1.12	NO	33.883	33.883

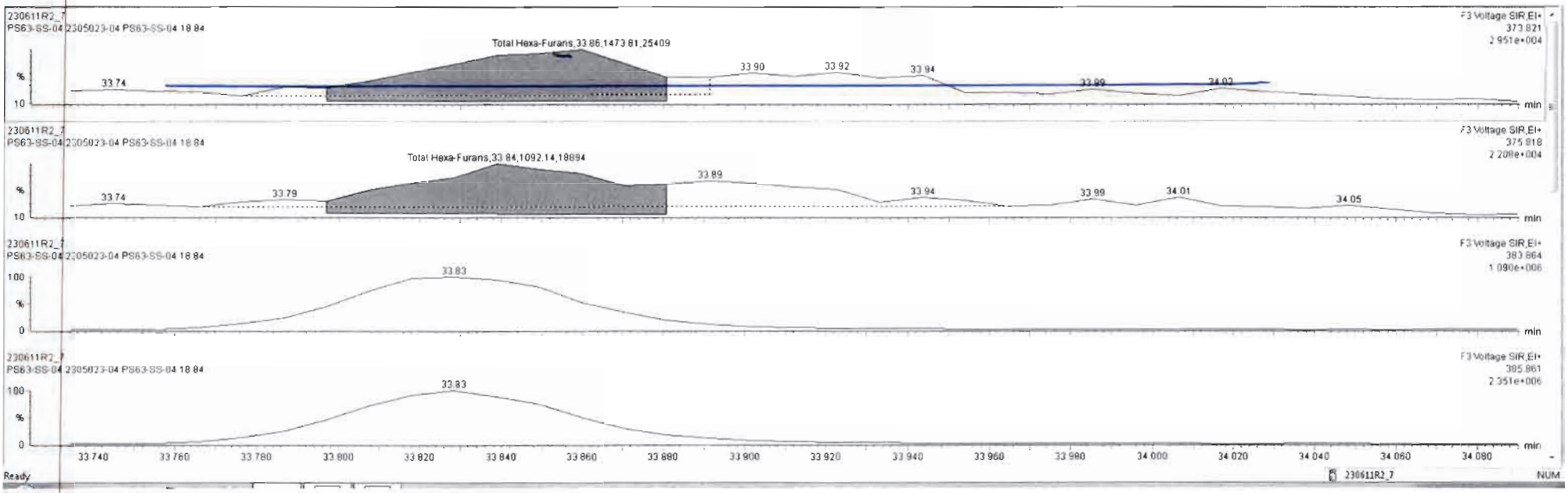
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.7575	10.019			211		0.597	211
46	Total Hexa-Furans				0.7560	10.019			2560		1.65	2560
47	Total Hepta-Furans				0.7539	10.019			5960		2.70	5970

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.07	1.347e5	1.114e5	1.21	NO	335.60	335.60
2	Total Hexa-Furans	32.25	3.560e5	3.049e5	1.17	NO	901.49	901.49
3	Total Hexa-Furans	32.67	3.200e3	2.719e3	1.18	NO	8.0730	8.0730
4	Total Hexa-Furans	32.90	4.161e5	3.522e5	1.18	NO	1047.9	1047.9
5	Total Hexa-Furans	33.26	2.261e3	2.025e3	1.12	NO	5.8454	5.8454
6	1,2,3,4,7,8-HxCDF	33.39	2.958e4	2.475e4	1.20	NO	71.031	71.031
7	1,2,3,6,7,8-HxCDF	33.53	2.583e4	2.225e4	1.16	NO	56.672	56.672
8	Total Hexa-Furans	33.86	1.474e3	1.092e3	1.35	NO	3.4999	3.4999
9	2,3,4,6,7,8-HxCDF	34.22	1.238e4	1.118e4	1.11	NO	32.085	32.085
10	Total Hexa-Furans	34.23	2.454e4	2.033e4	1.21	NO	61.199	61.199
11	1,2,3,7,8,9-HxCDF	35.30	4.249e3	3.855e3	1.10	NO	14.706	14.706
12	Total Hexa-Furans	35.32	6.631e3	5.743e3	1.19	NO	17.150	17.150



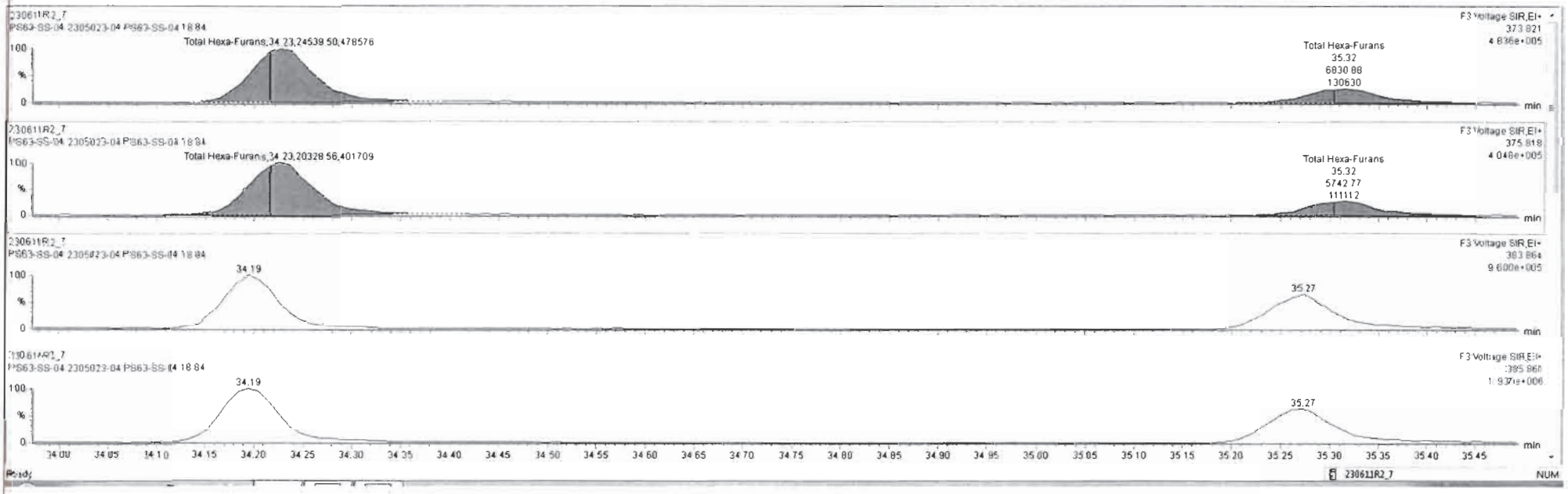
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18.84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.7535	10.019			211		0.597	211
46	Total Hexa-Furans				0.7560	10.019			2580		1.85	2580
47	Total Hepta-Furans				0.7539	10.019			5960		2.70	5970

	Name	RT	mt Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.07	1.347e5	1.114e5	1.21	NO	335.60	335.60
2	Total Hexa-Furans	32.25	3.560e5	3.048e5	1.17	NO	901.49	901.49
3	Total Hexa-Furans	32.67	3.200e3	2.719e3	1.18	NO	8.0730	8.0730
4	Total Hexa-Furans	32.90	4.161e5	3.522e5	1.18	NO	1047.9	1047.9
5	Total Hexa-Furans	33.26	2.261e3	2.025e3	1.12	NO	5.8454	5.8454
6	1,2,3,4,7,8-HxCDF	33.39	2.958e4	2.475e4	1.20	NO	71.031	71.031
7	1,2,3,6,7,8-HxCDF	33.53	2.583e4	2.225e4	1.16	NO	56.672	56.672
8	Total Hexa-Furans	33.86	1.474e3	1.092e3	1.35	NO	3.4999	3.4999
9	2,3,4,6,7,8-HxCDF	34.22	1.238e4	1.118e4	1.11	NO	32.085	32.085
10	Total Hexa-Furans	34.23	2.454e4	2.033e4	1.21	NO	61.199	61.199
11	1,2,3,7,8,9-HxCDF	35.30	4.249e3	3.855e3	1.10	NO	14.706	14.706
12	Total Hexa-Furans	35.32	6.831e3	5.743e3	1.19	NO	17.150	17.150

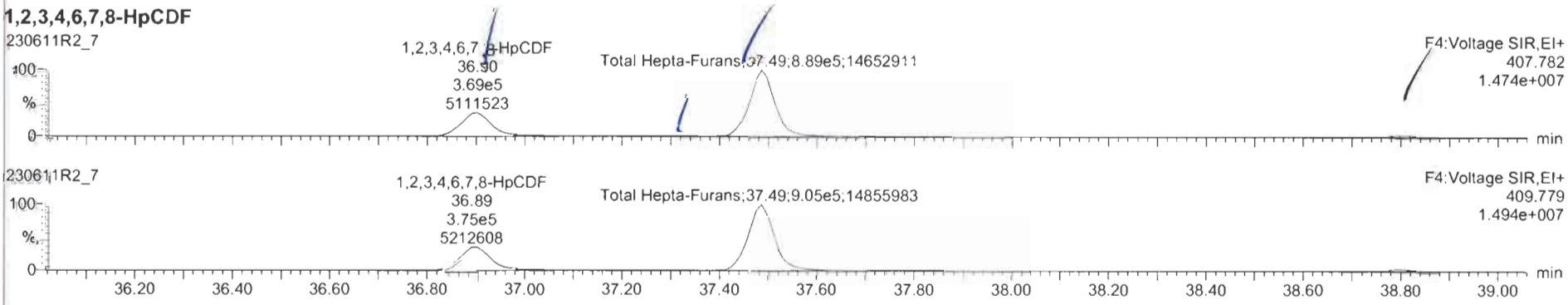


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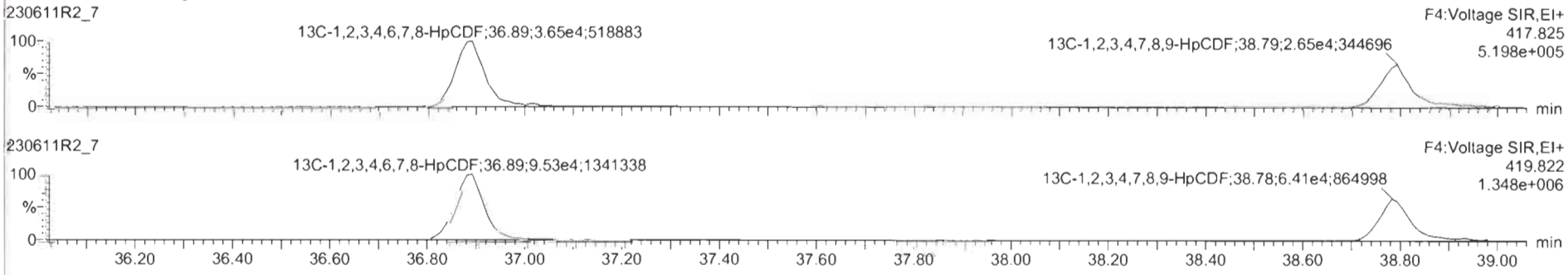
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: PS63-SS-04

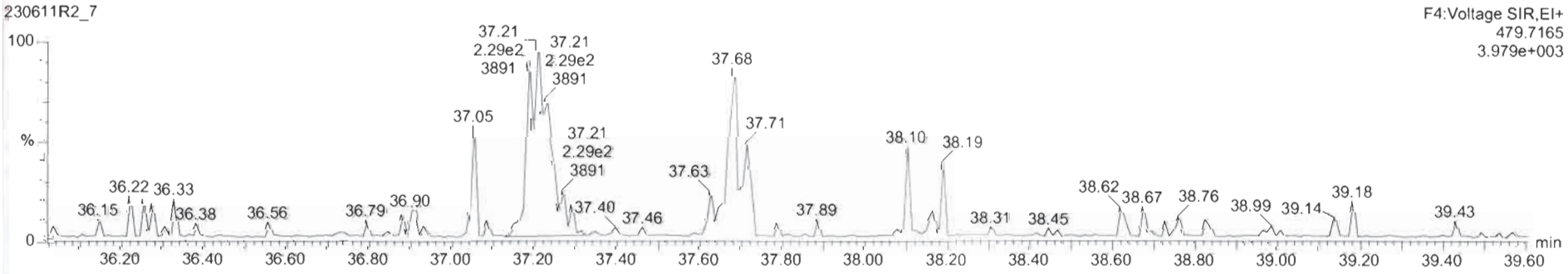
1,2,3,4,6,7,8-HpCDF



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



DPE4



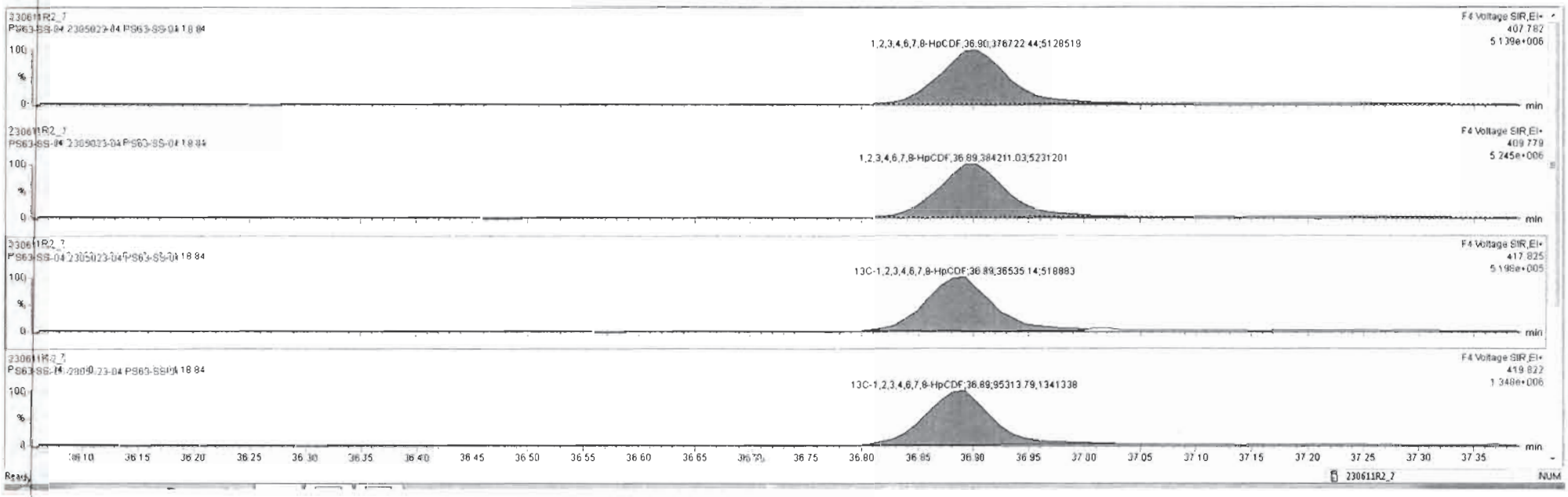
TargetLynx - 230611R2-7 * - [Chromatogram]

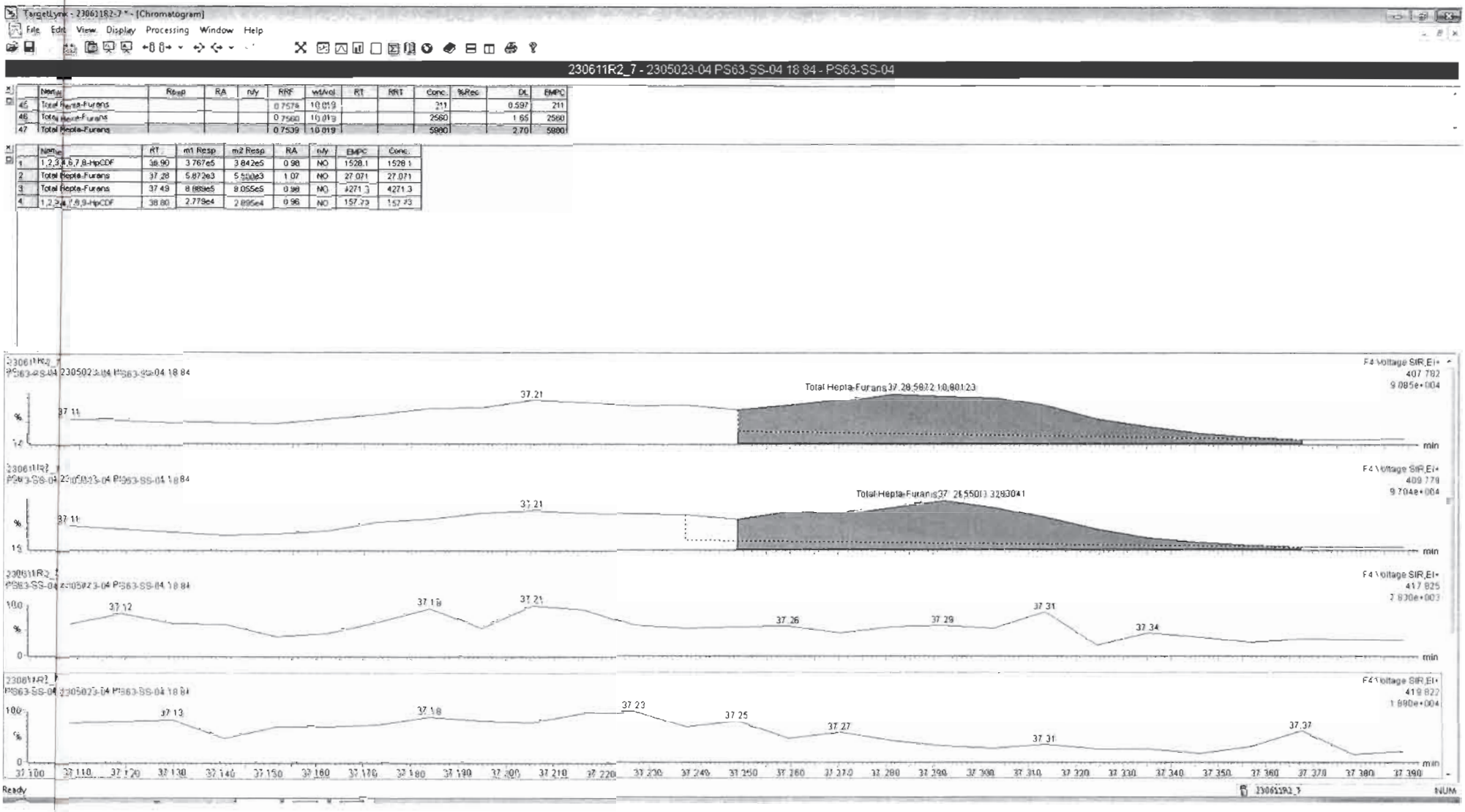
File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18 84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.7575	10.019			211		0.597	211
46	Total Hexa-Furans				0.7560	10.019			2560		1.65	2560
47	Total Hepta-Furans				0.7539	10.019			5880		2.701	5880

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.90	3.787e5	3.842e5	0.98	NO	1526.1	1526.1
2	Total Hepta-Furans	37.28	5.872e3	5.500e3	1.07	NO	27.071	27.071
3	Total Hepta-Furans	37.49	8.888e5	9.055e5	0.98	NO	4271.3	4271.3
4	1,2,3,4,7,8,9-HpCDF	38.80	2.779e4	2.895e4	0.96	NO	157.73	157.73





	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Hepta-Furans				0.7576	10.019			211		0.597	211
46	Total Hepta-Furans				0.7560	10.019			2560		1.65	2560
47	Total Hepta-Furans				0.7539	10.019			5980		2.70	5980

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	38.90	3.767e5	3.842e5	0.98	NO	1528.1	1528.1
2	Total Hepta-Furans	37.28	5.872e3	5.500e3	1.07	NO	27.071	27.071
3	Total Hepta-Furans	37.49	8.688e5	8.055e5	0.99	NO	4271.3	4271.3
4	1,2,3,4,7,8,9-HpCDF	38.80	2.779e4	2.895e4	0.96	NO	157.73	157.73

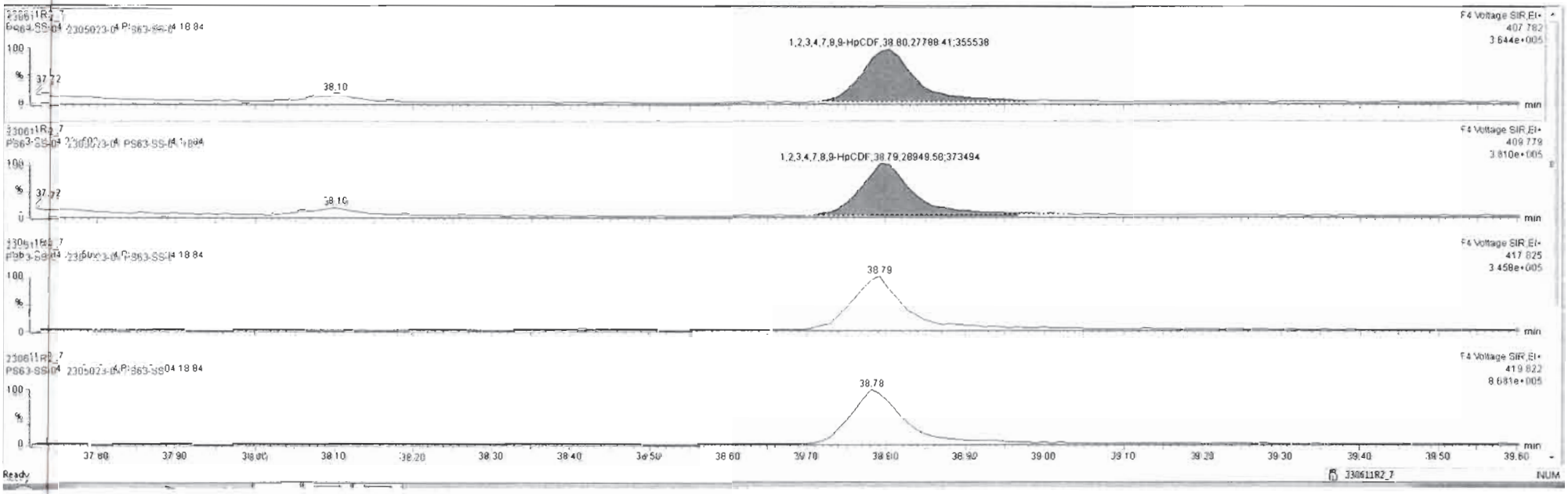
TargetLynx - 230611R2-7 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_7 - 2305023-04 PS63-SS-04 18 84 - PS63-SS-04

	Name	Resp	RA	n/y	RRF	wtAvg	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.7575	10.019			211		0.597	211
46	Total Hexa-Furans				0.7560	10.019			2560		1.65	2560
47	Total Hepta-Furans				0.7539	10.019			5980		2.70	5980

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.90	3.767e5	3.842e5	0.98	NO	1528.1	1528.1
2	Total Hepta-Furans	37.28	5.872e3	5.540e3	1.07	NO	27.071	27.071
3	Total Hepta-Furans	37.48	8.888e5	9.065e5	0.98	NO	4271.3	4271.3
4	1,2,3,4,7,8,9-HpCDF	38.80	2.779e4	2.895e4	0.96	NO	157.73	157.73

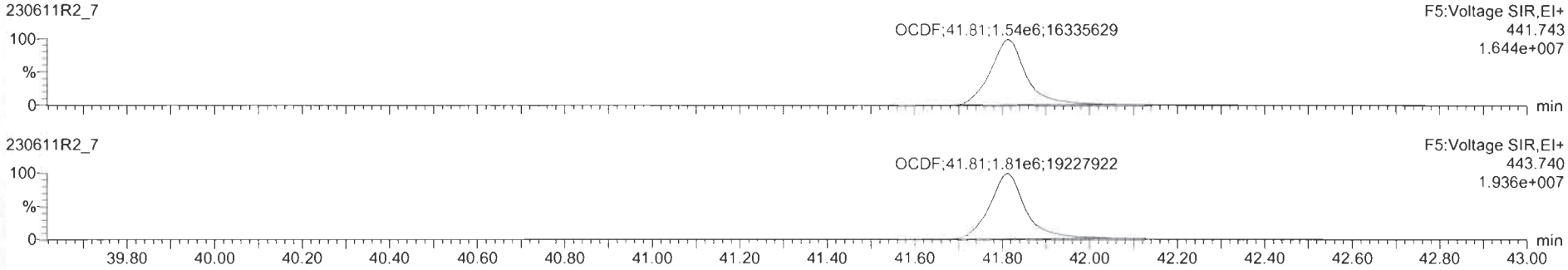


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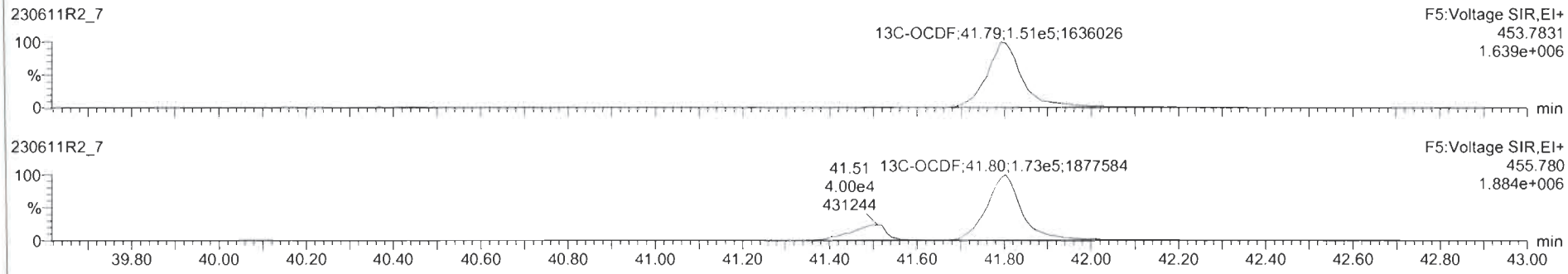
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_7, Date: 11-Jun-2023, Time: 17:32:01, ID: 2305023-04 PS63-SS-04 18.84, Description: PS63-SS-04

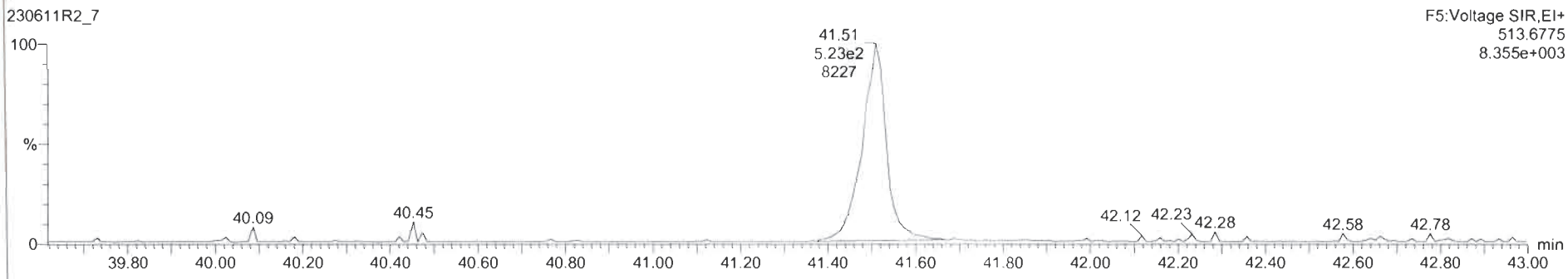
OCDF



13C-OCDF



DPE5

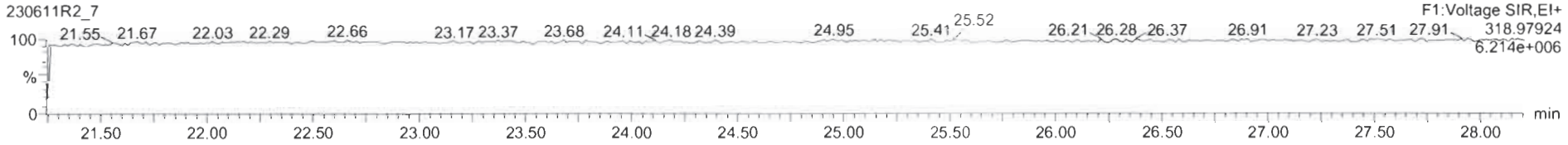


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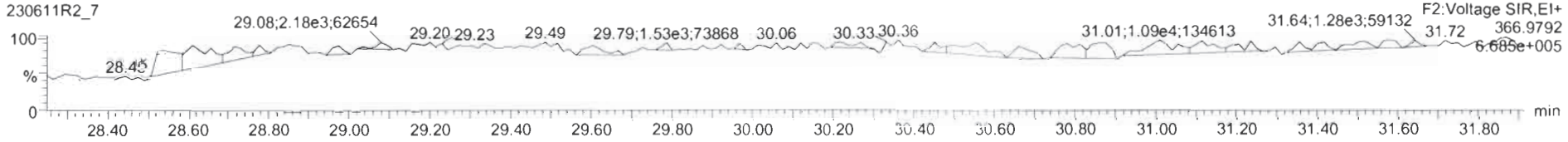
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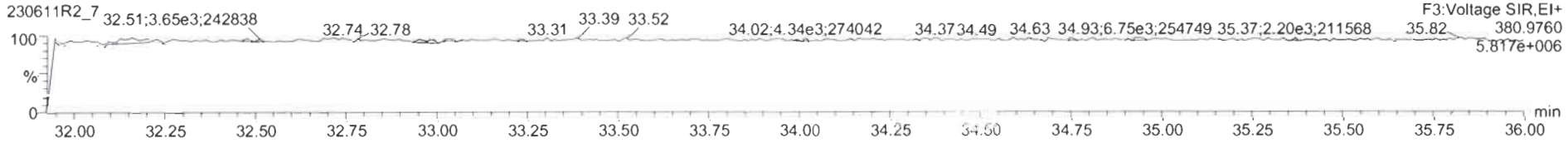
PFK1



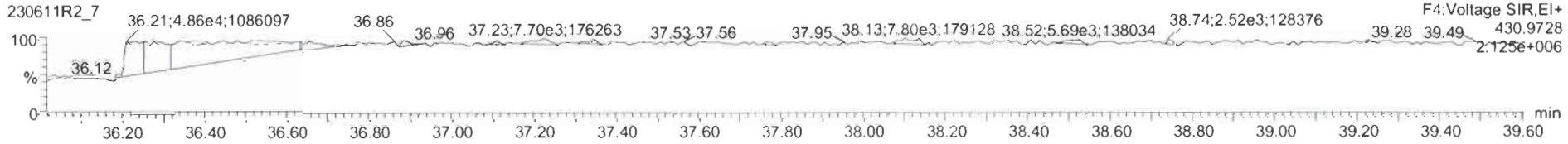
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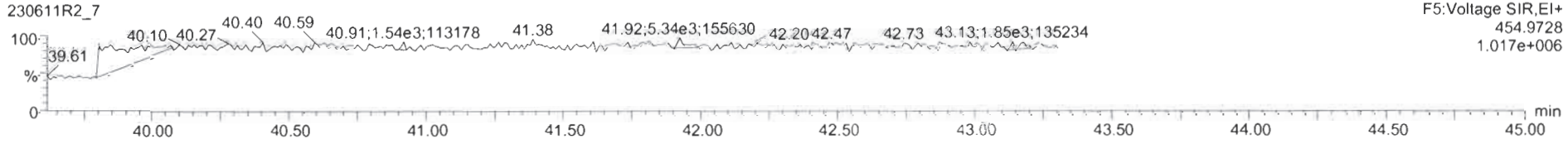
PFK3



PFK4



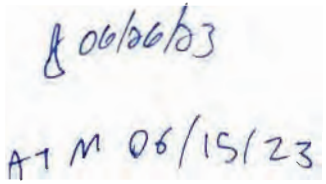
PFK5



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230614R1\230614R1-16.qld

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Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-12-23.cdb 13 Jun 2023 09:11:49

Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04, Task: ST230614R1_1

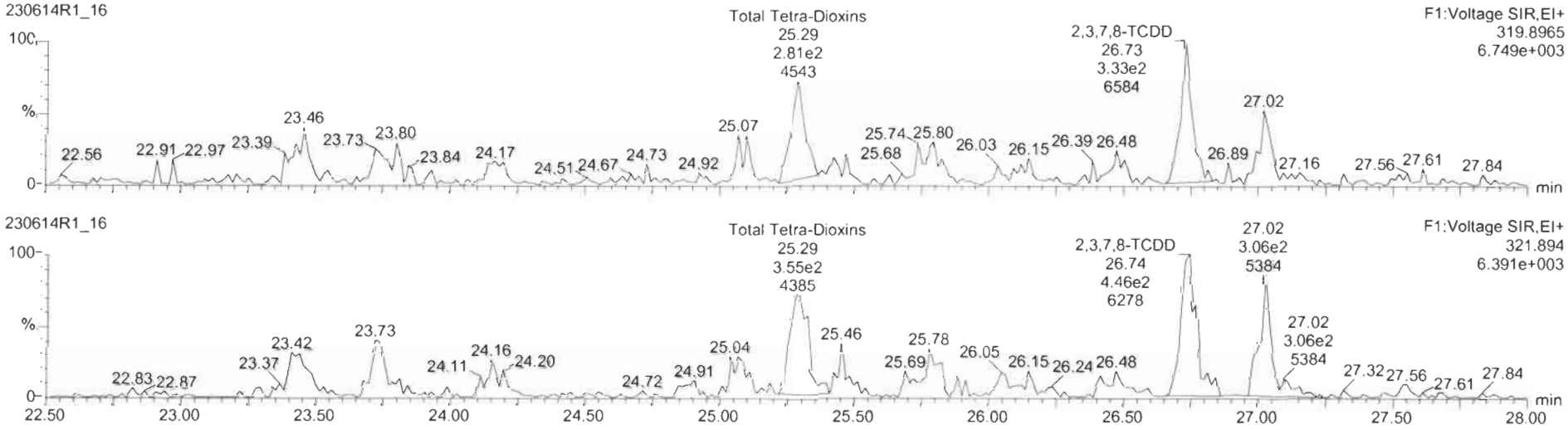
	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	1,2,3,4,6,7,8-HpCDD	2.32e6	1.03	NO	0.936	10.019	38.07	1.000	24955		37.2	25000
2	OCDD	1.66e7	0.85	NO	0.849	10.019	41.43	1.000	216360	*E	50.2	216000
3	OCDF	6.56e5	0.89	NO	0.735	10.019	41.77	1.000	7402.6		18.6	7400
4	13C-1,2,3,4,6,7,8-HpCDD	1.99e4	1.11	NO	0.550	10.019	38.06	1.125	183.86	92.1	4.53	
5	13C-OCDD	3.60e4	0.90	NO	0.482	10.019	41.42	1.225	380.05	95.2	7.58	
6	13C-OCDF	4.81e4	0.90	NO	0.696	10.019	41.76	1.235	351.63	88.1	5.82	
7	37Cl-2,3,7,8-TCDD	1.40e4			0.959	10.019	26.73	1.027	77.225	96.7	0.473	
8	13C-1,2,3,4,6,9-HxCDF	3.92e4	0.51	NO	1.00	10.019	33.82	1.000	199.61	100	5.25	

Dataset: Untitled

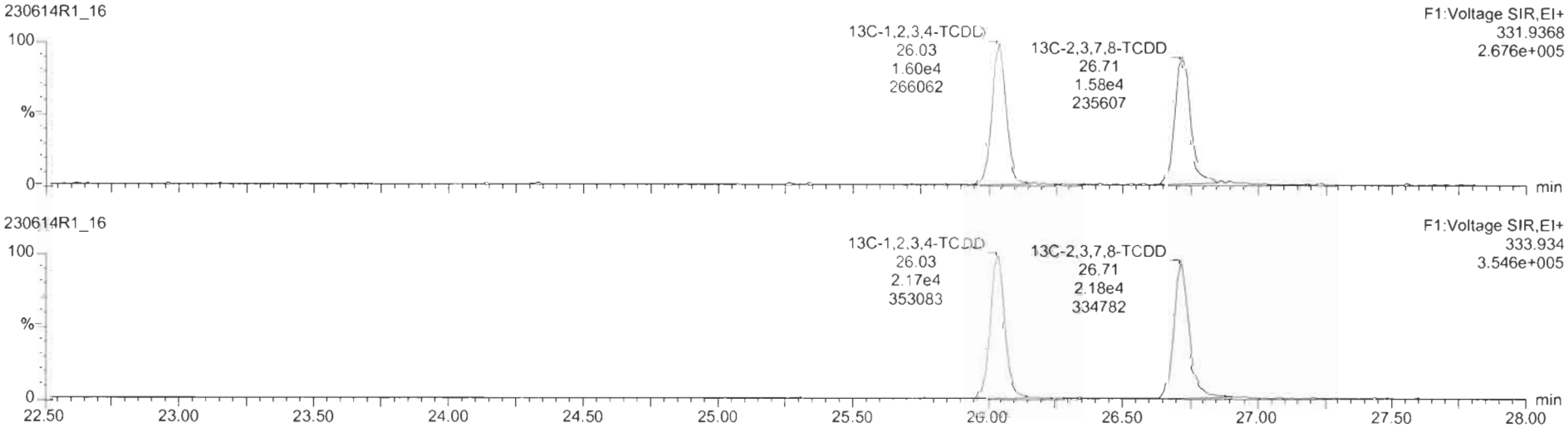
Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

2,3,7,8-TCDD



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

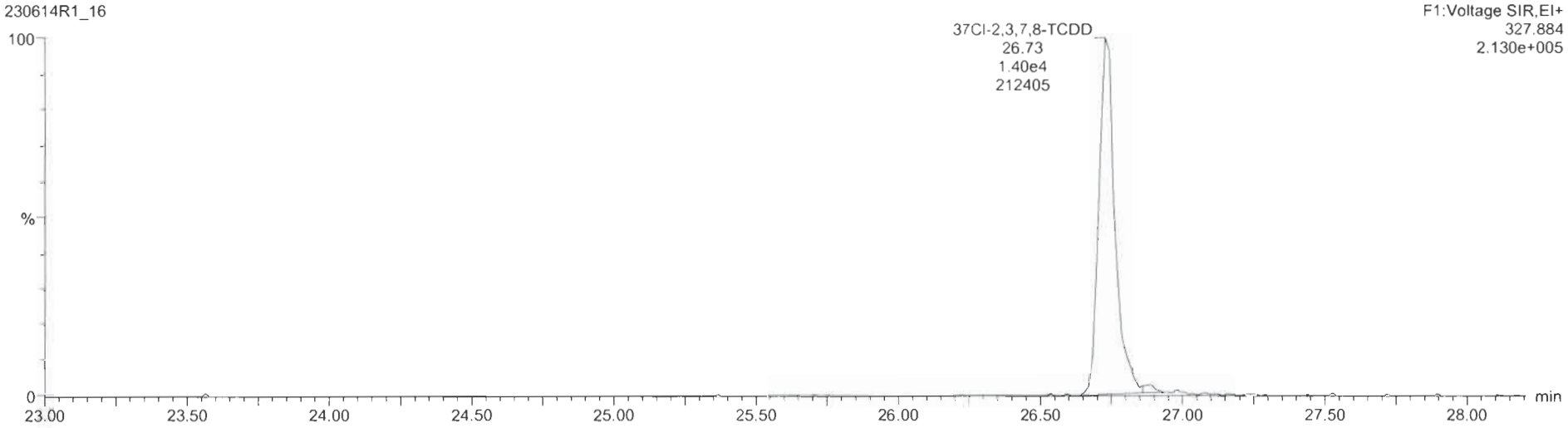


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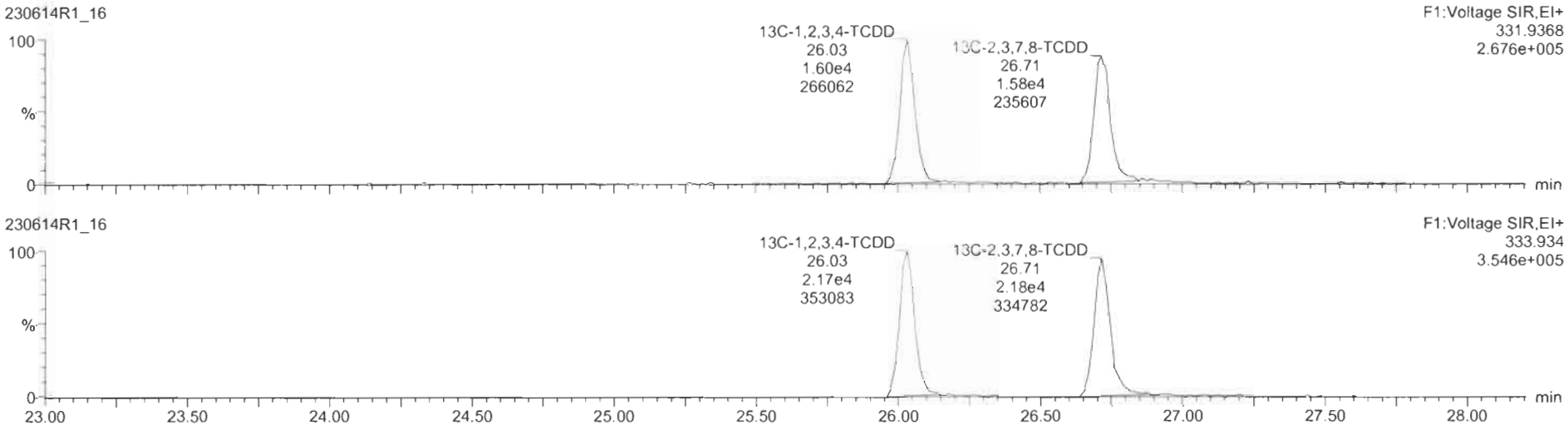
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Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

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



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



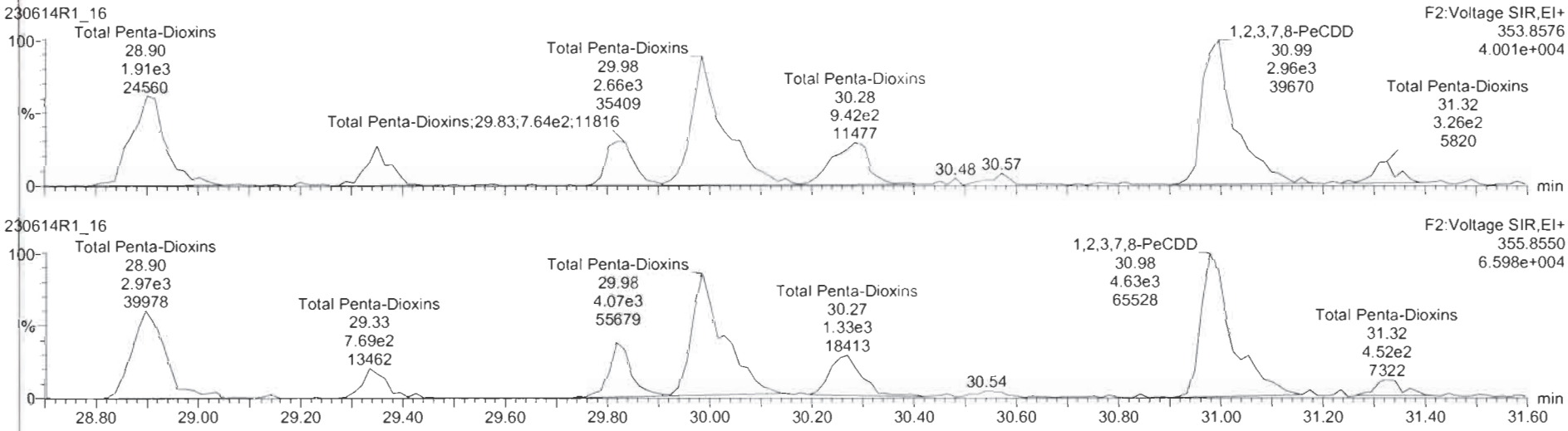
Enthalpy Analytical EDH VG-12

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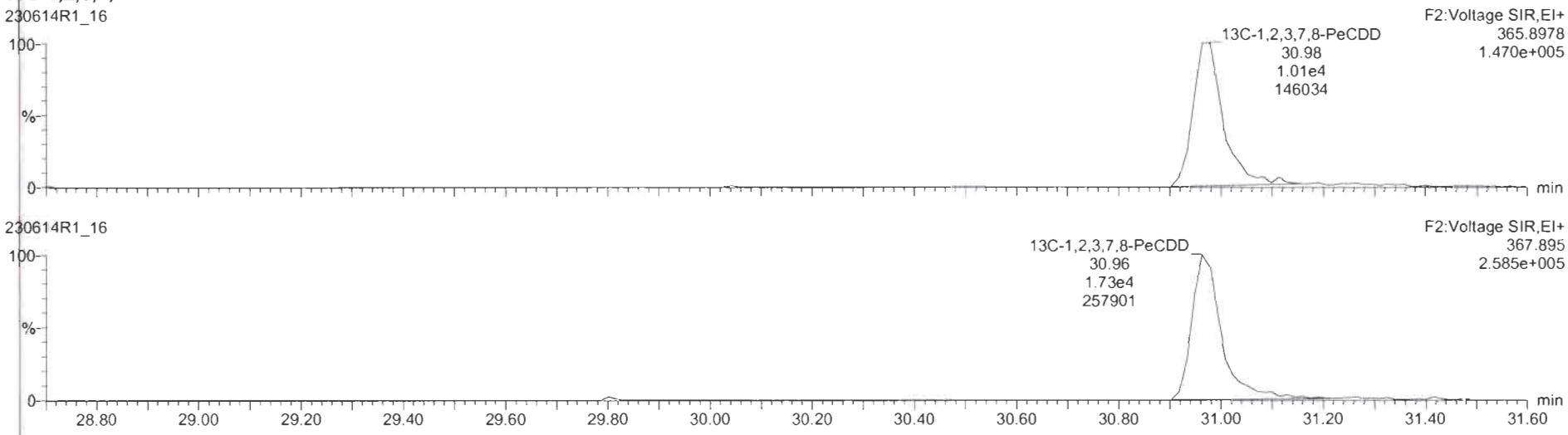
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Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, **Description: PS63-SS-04**

1,2,3,7,8-PeCDD



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



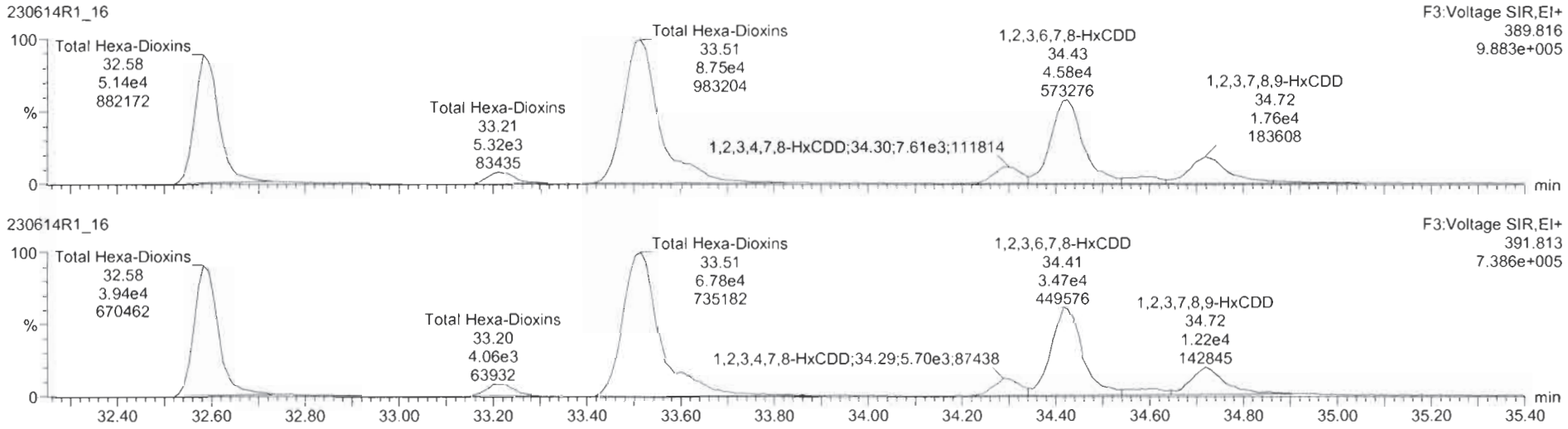
Enthalpy Analytical EDH VG-12

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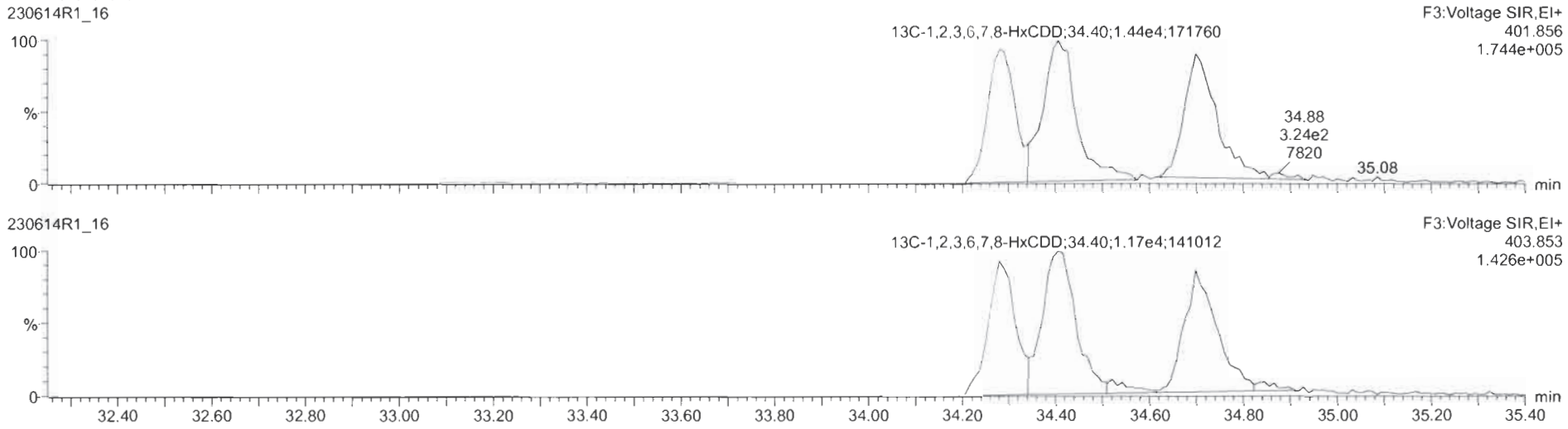
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Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

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



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

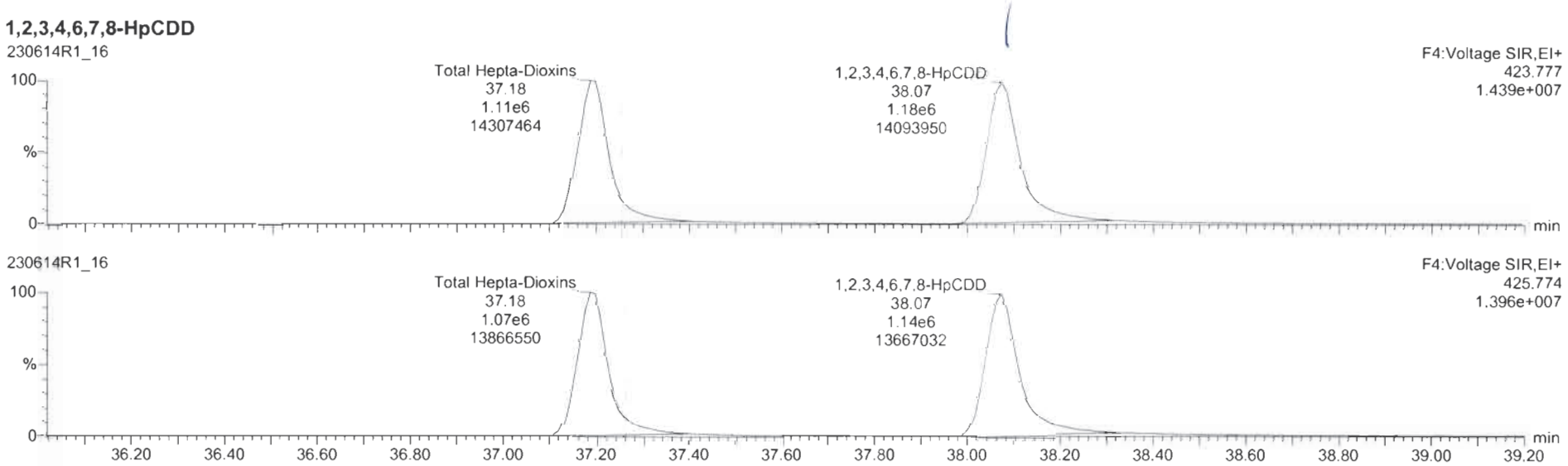


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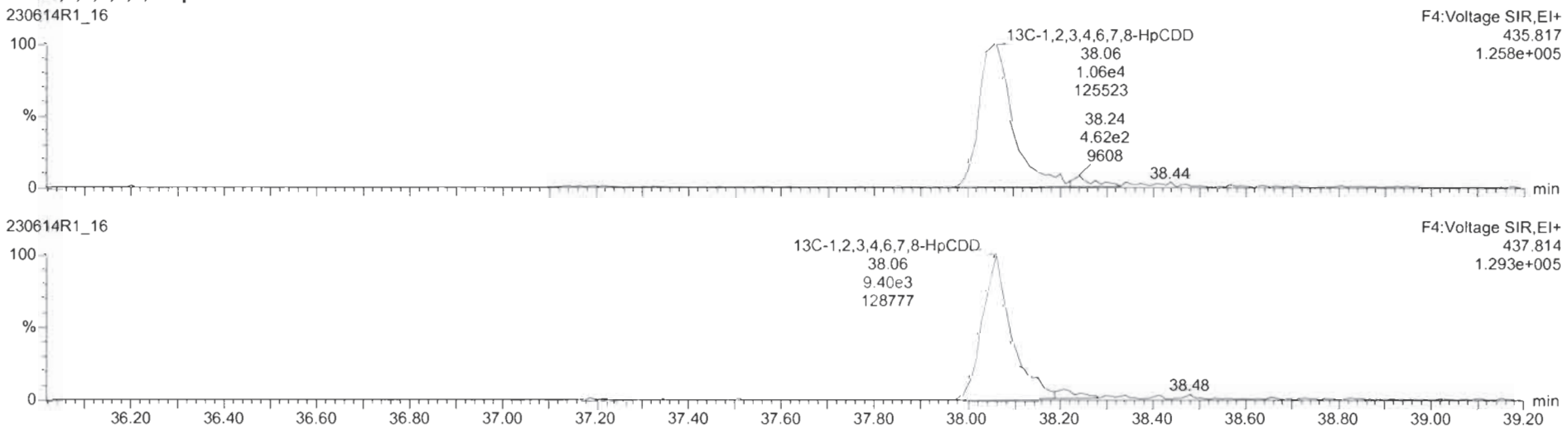
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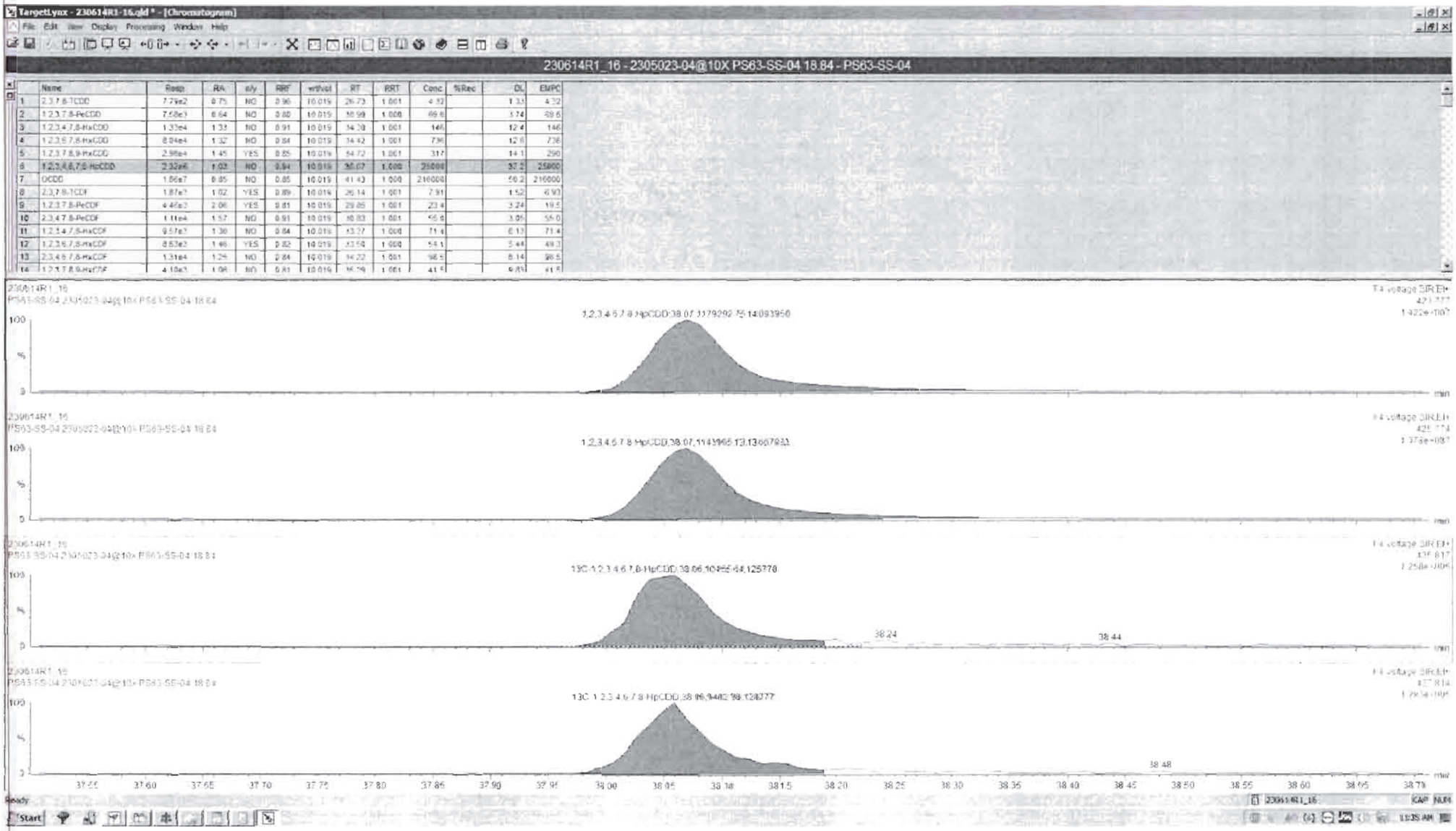
Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

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



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



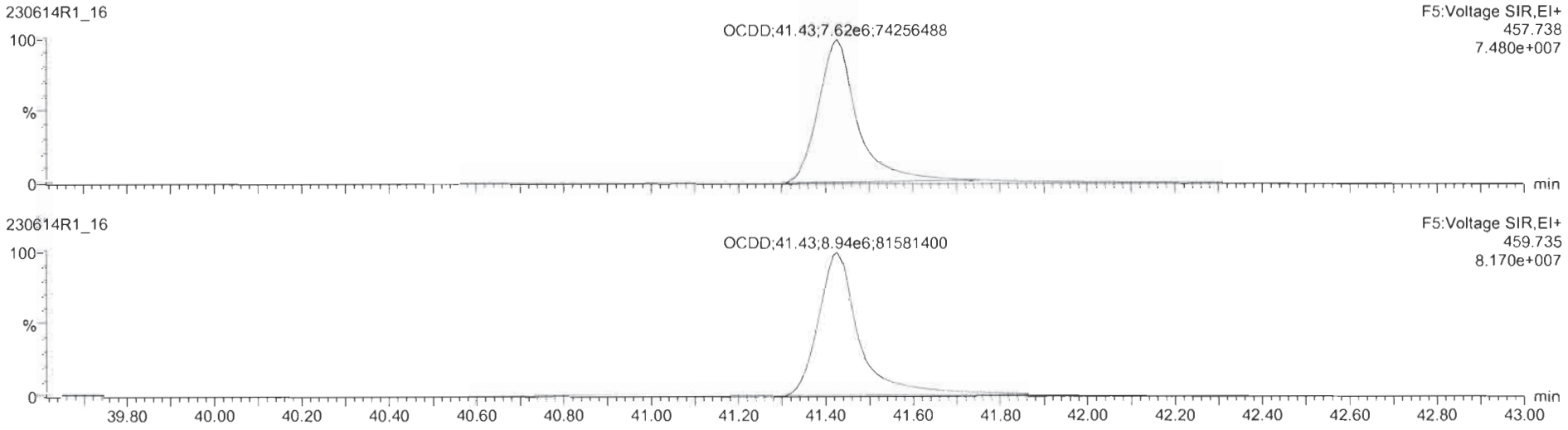

TargetLynx - 230614R1-16.qld * - [Chromatogram]
File Edit View Display Processing Window Help
230614R1_16 - 2305023-04@10X PS63-SS-04 18.84 - PS63-SS-04
Name Resp RA a/y RRF wt/vol RT RRT Conc %Rec DL EMPC
1 2,3,7,8-TCDD 7.79e2 0.75 NO 0.96 10.019 26.73 1.001 4.32 1.35 4.32
2 1,2,3,7,8-PeCDD 7.68e3 6.64 NO 0.82 10.019 30.99 1.000 89.6 3.74 89.6
3 1,2,3,4,7,8-HxCDD 1.33e4 1.33 NO 0.91 10.019 34.28 1.001 146 12.4 146
4 1,2,3,6,7,8-HxCDD 8.04e4 1.32 NO 0.84 10.019 34.42 1.001 736 12.6 736
5 1,2,3,7,8,9-HxCDD 2.96e4 1.45 YES 0.85 10.019 34.72 1.001 317 14.1 290
6 1,2,3,4,6,7,8-HpCDD 2.32e6 1.03 NO 0.94 10.019 38.07 1.000 25000 37.2 25800
7 OCDD 1.86e7 0.85 NO 0.85 10.019 41.43 1.000 216000 56.2 216000
8 2,3,7,8-TCDF 1.87e2 1.02 YES 0.89 10.019 26.14 1.001 7.91 1.52 6.93
9 1,2,3,7,8-PeCDF 4.46e2 2.06 YES 0.81 10.019 29.85 1.001 23.4 3.24 19.5
10 2,3,4,7,8-PeCDF 1.11e4 1.57 NO 0.91 10.019 30.83 1.001 55.6 3.06 55.0
11 1,2,3,4,7,8-HxCDF 9.57e3 1.30 NO 0.84 10.019 33.37 1.000 71.4 6.13 71.4
12 1,2,3,6,7,8-HxCDF 8.57e2 1.46 YES 0.82 10.019 33.50 1.000 55.1 5.44 49.3
13 2,3,4,6,7,8-HxCDF 1.31e4 1.24 NO 0.84 10.019 34.22 1.001 98.5 8.14 98.5
14 1,2,3,7,8,9-HxCDF 4.10e3 1.08 NO 0.81 10.019 36.29 1.001 41.5 9.83 41.5
230614R1_16
PS63-SS-04 2305023-04@10X PS63-SS-04 18.84
1,2,3,4,6,7,8-HpCDD,38.07,3379292.75,14083950
230614R1_16
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230614R1_16
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Ready
Start

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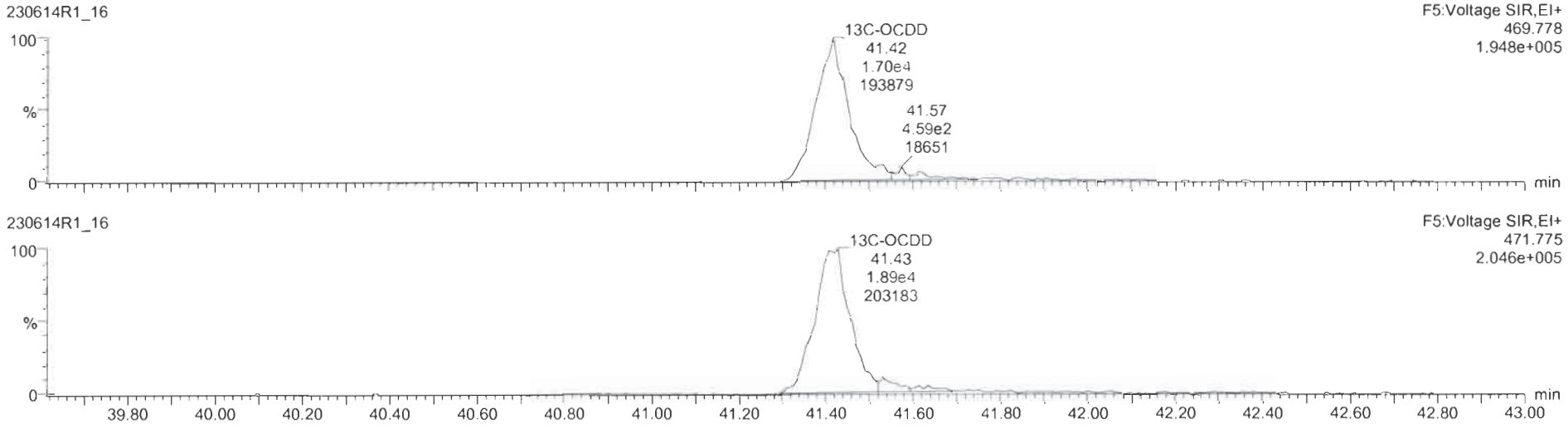
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Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

OCDD



13C-OCDD

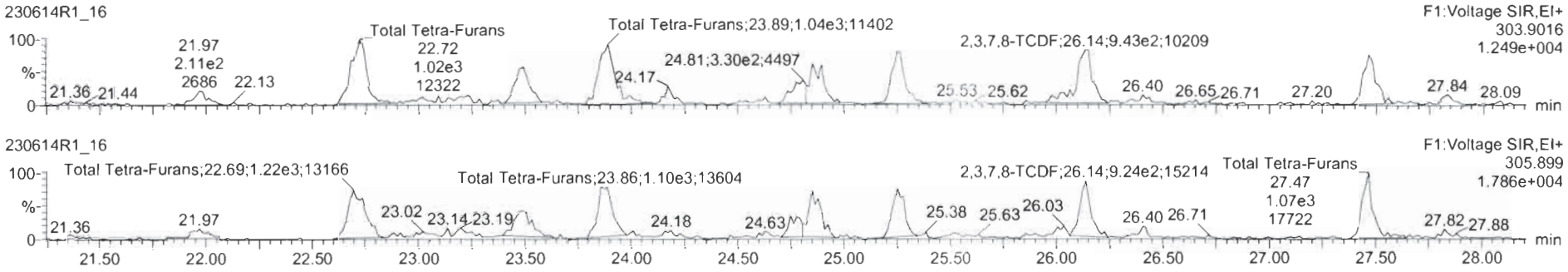


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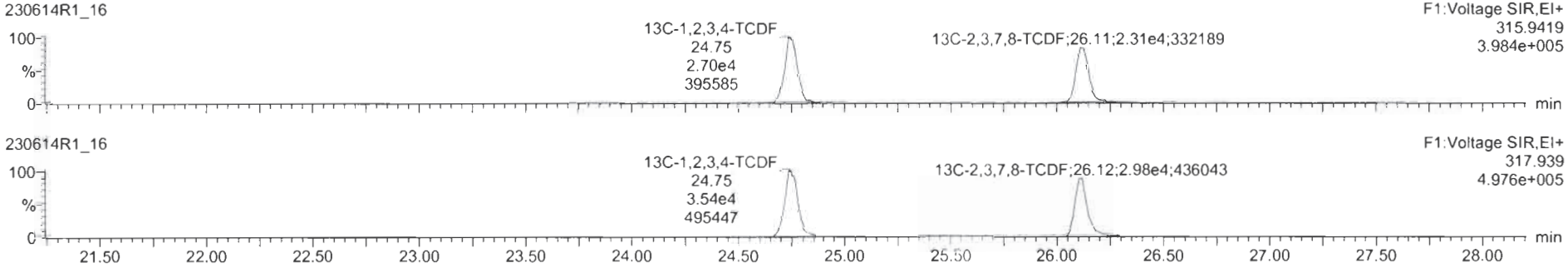
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Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

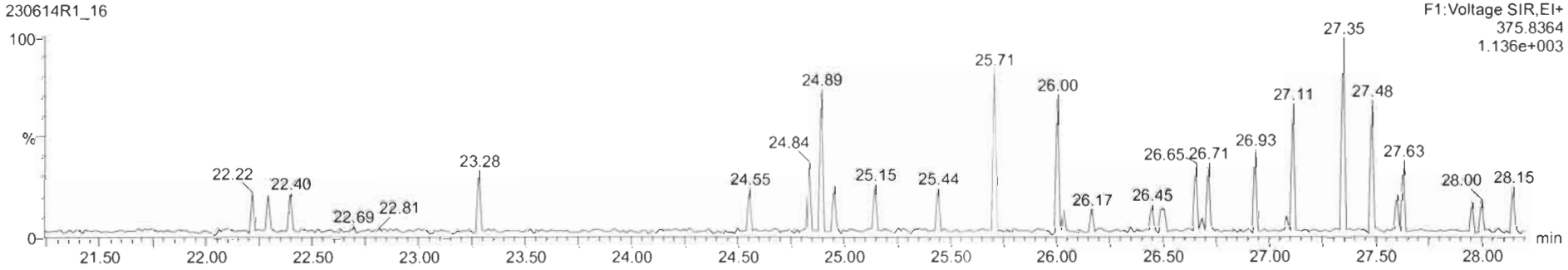
2,3,7,8-TCDF



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



DPE1



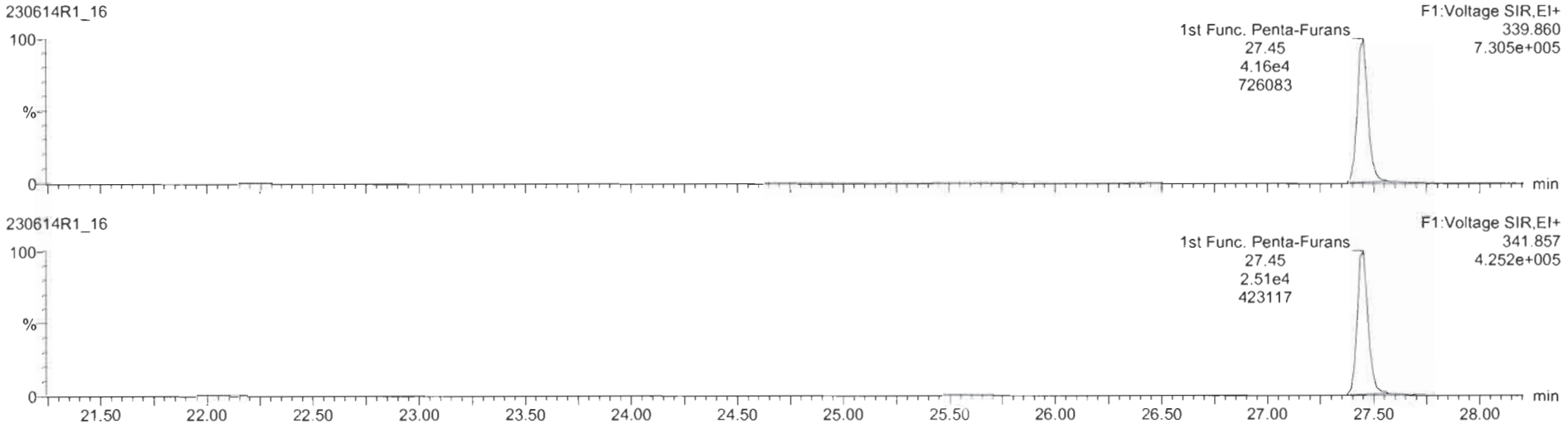
Enthalpy Analytical EDH VG-12

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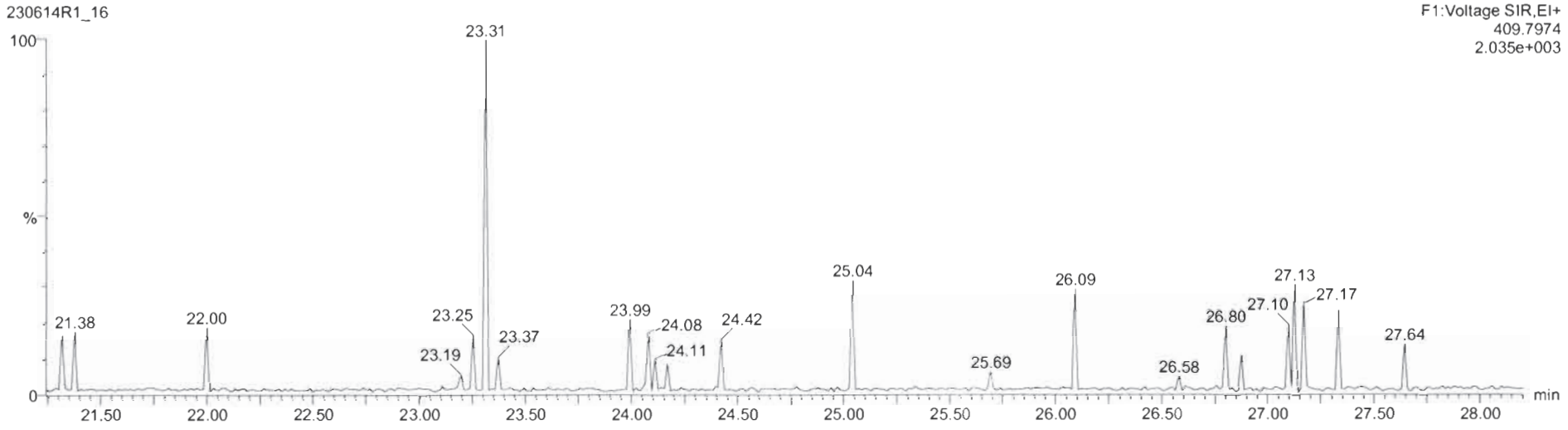
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Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

1st Func. Penta-Furans



DPE6



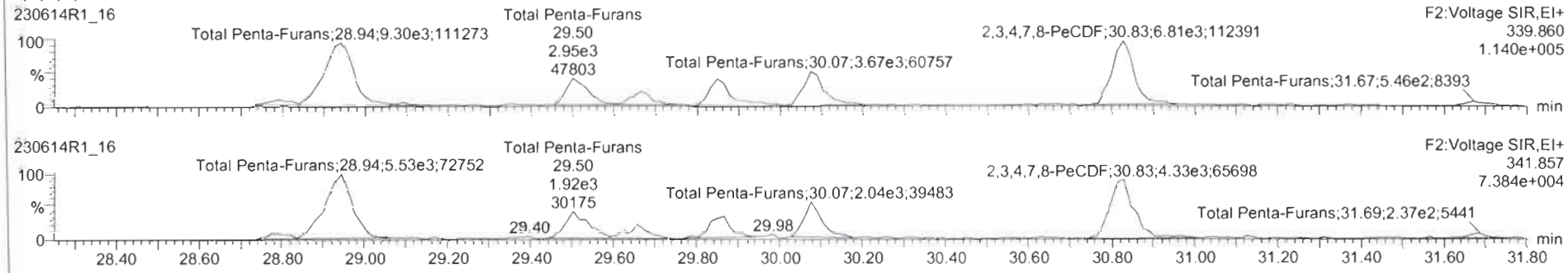
Enthalpy Analytical EDH VG-12

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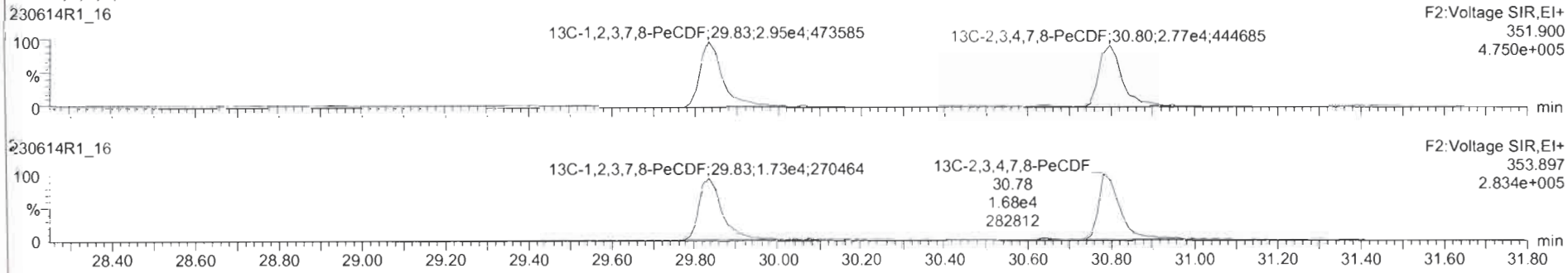
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Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

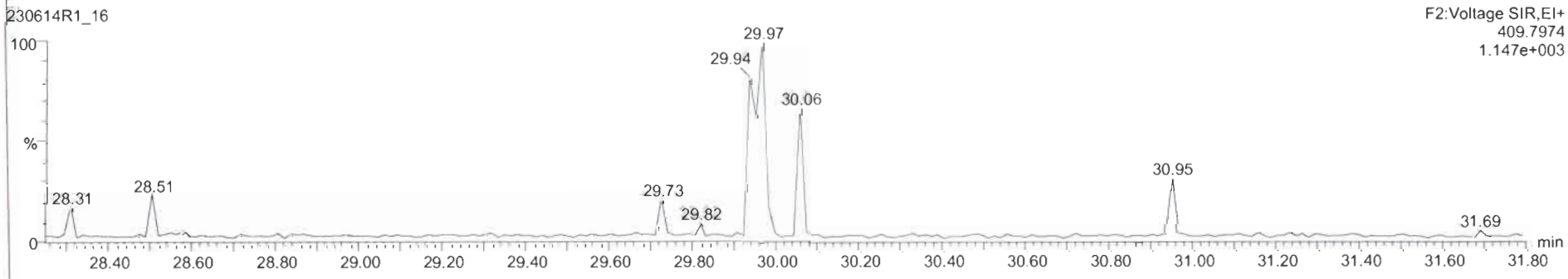
1,2,3,7,8-PeCDF



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



DPE2

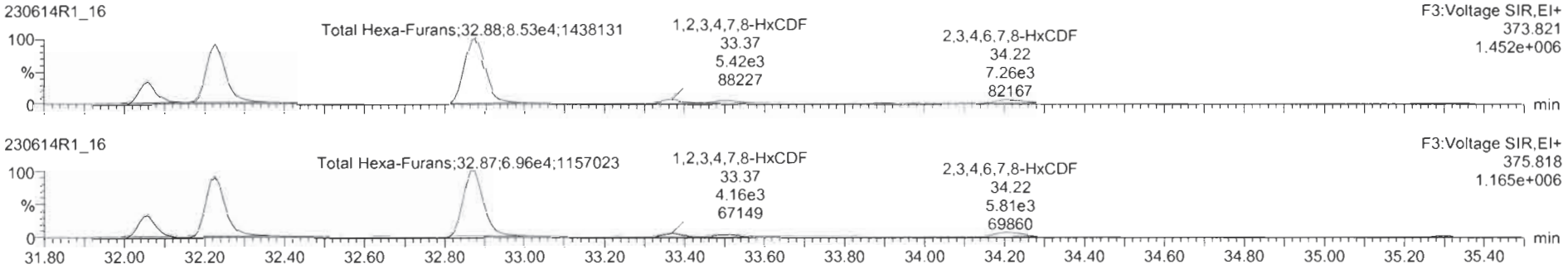


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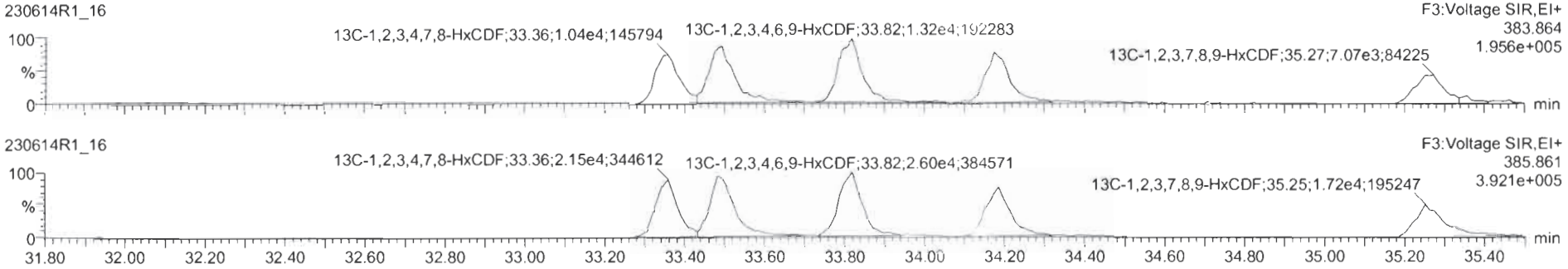
Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

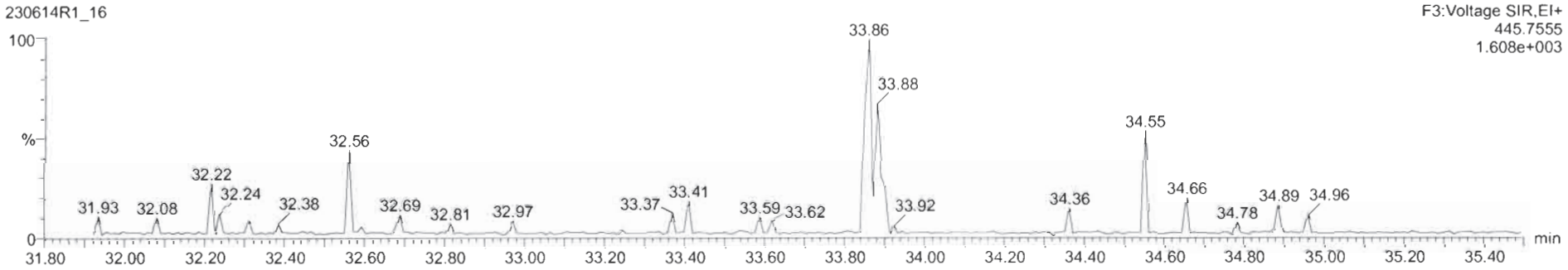
1,2,3,4,7,8-HxCDF



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



DPE3

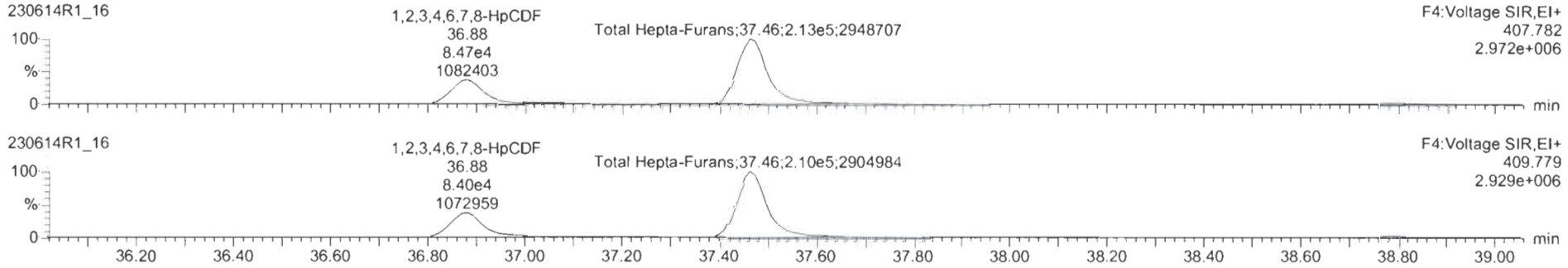


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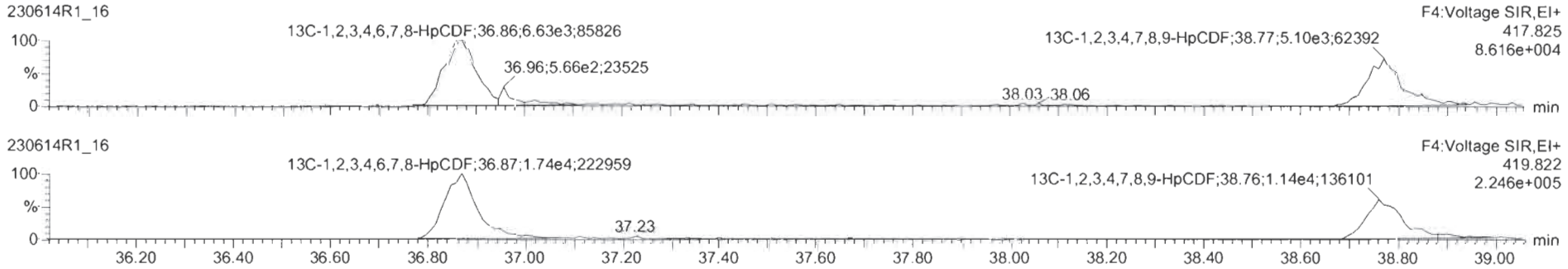
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Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_16, Date: 15-Jun-2023, Time: 01:36:34, ID: 2305023-04@10X PS63-SS-04 18.84, Description: PS63-SS-04

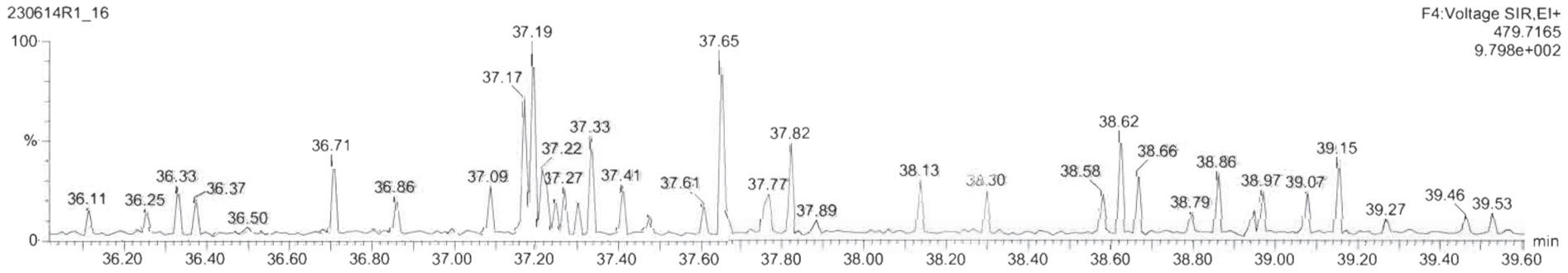
1,2,3,4,6,7,8-HpCDF



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



DPE4

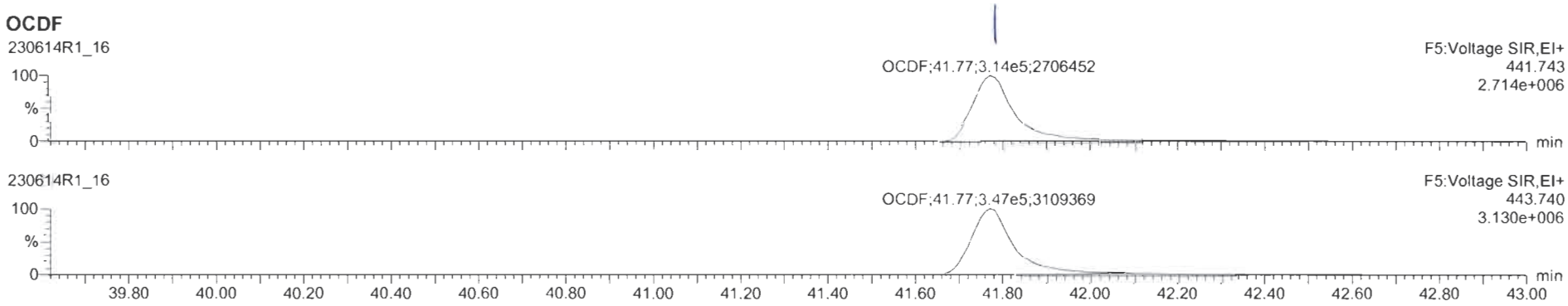


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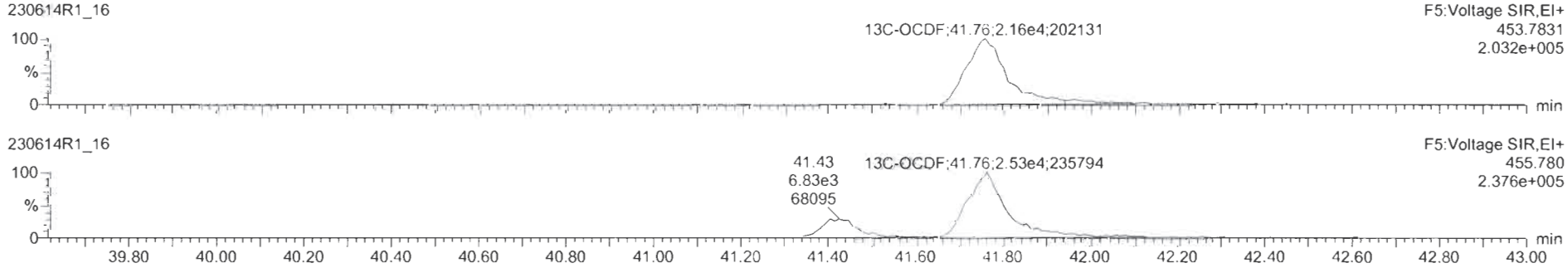
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Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

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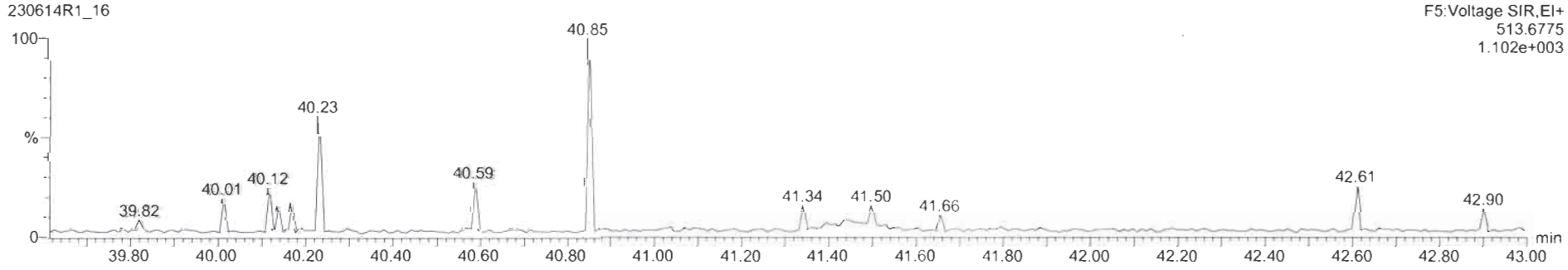
OCDF

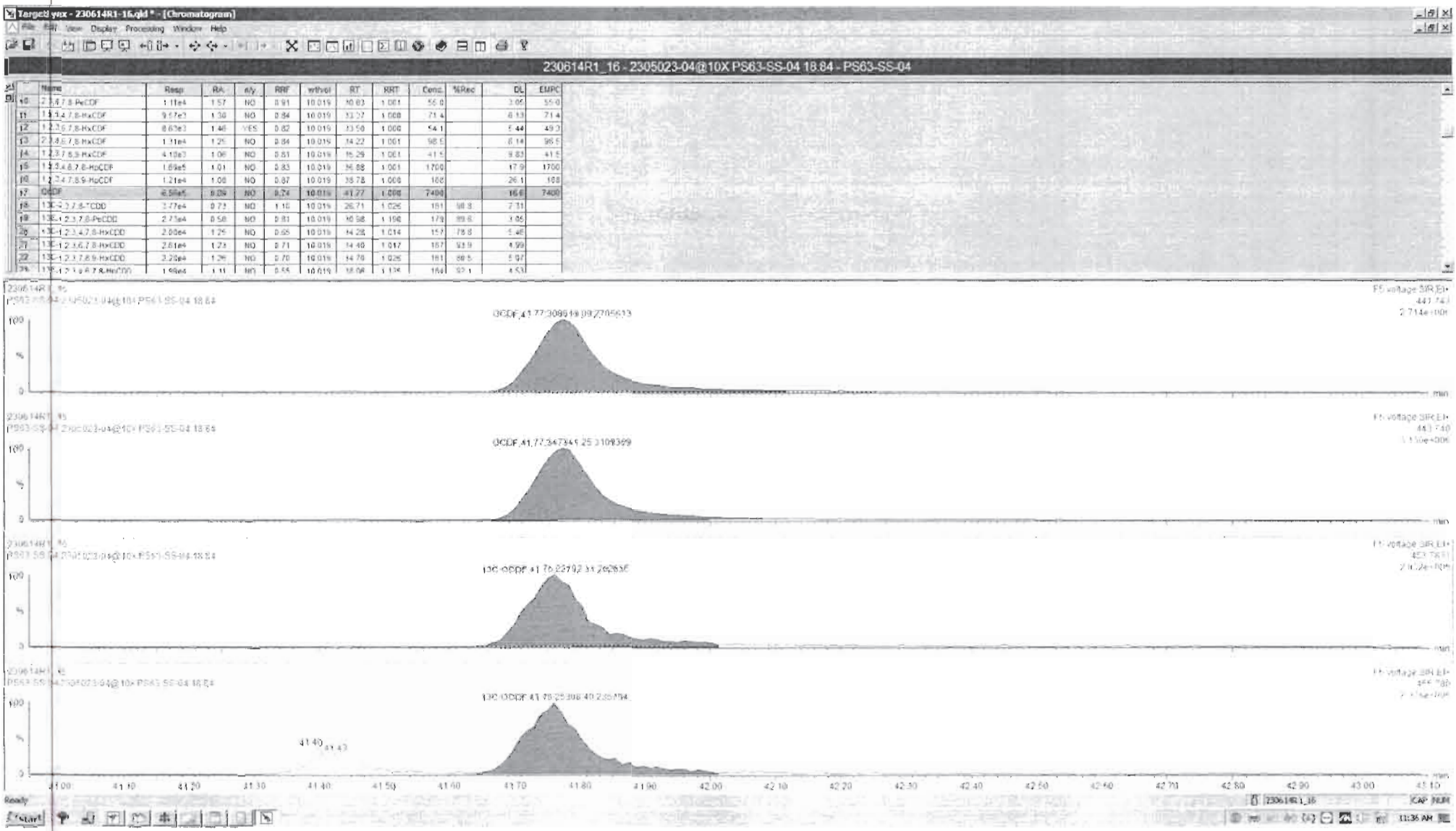


13C-OCDF



DPE5



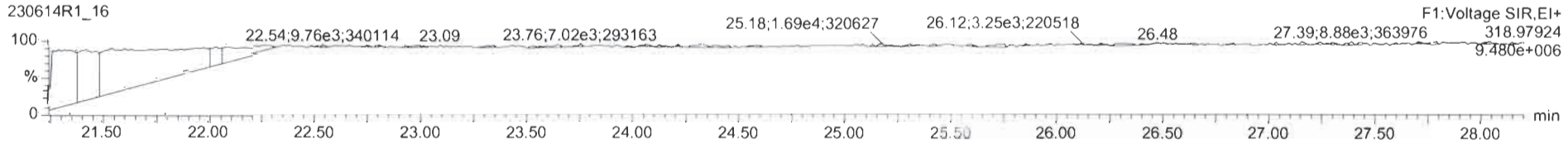

Target2.wex - 230614R1-16.qld * - [Chromatogram]
230614R1_16 - 2305023-04@10X PS63-SS-04 18.84 - PS63-SS-04
OCDF 41.77 3089418 39.2705633
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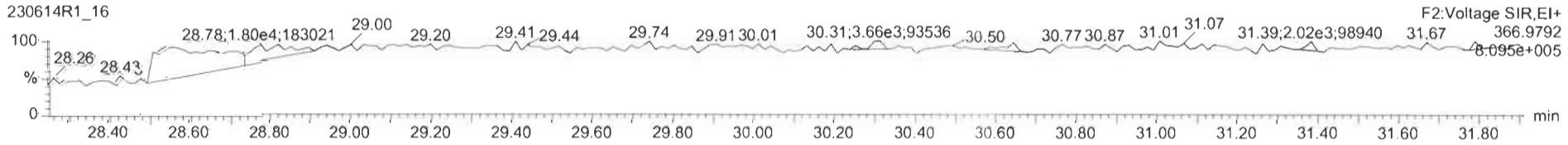
Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
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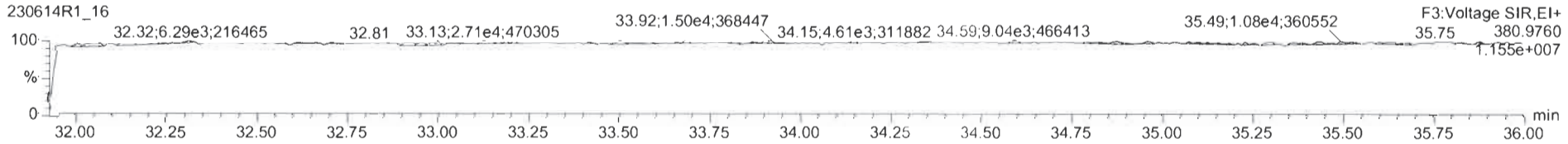
PFK1



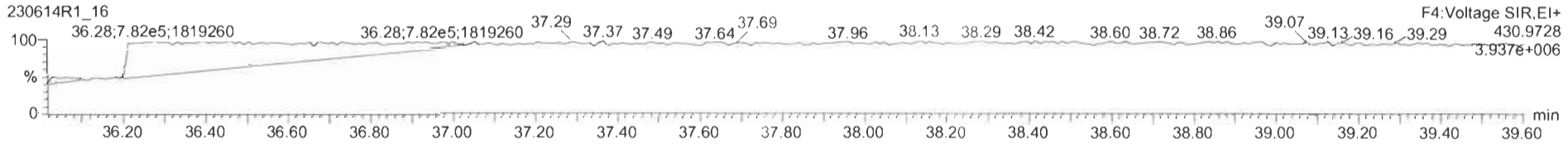
PFK2



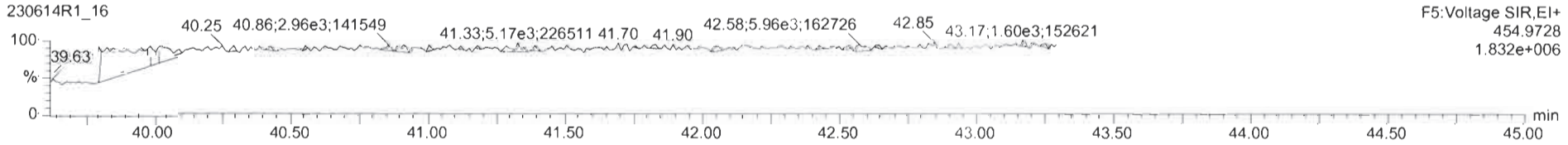
PFK3



PFK4



PFK5



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230628R2\230628R2-16.qld

Last Altered: Thursday, June 29, 2023 08:50:00 Pacific Daylight Time
Printed: Thursday, June 29, 2023 08:51:14 Pacific Daylight Time

KG 06/29/23

ATM 06/29/23

Method: C:\MassLynx\Default.pro\Methdb\1613rrt-6-28-23.mdb 28 Jun 2023 14:17:36
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-25-23.cdb 26 Jun 2023 06:53:29

Name: 230628R2_16, Date: 29-Jun-2023, Time: 02:16:03, ID: 2305023-04RE1@10X PS63-SS-04 3.8, Description: PS63-SS-04, Task: ST230628R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	OCDD	1.95e6	0.88	NO	0.678	2.021	41.04	1.000	341020	KG	137	341000
2	13C-OCDD	1.67e4	0.89	NO	0.576	2.021	41.04	1.224	1972.2	99.6	27.7	
3	37Cl-2,3,7,8-TCDD	8.58e3			0.870	2.021	26.37	1.028	422.30	107	3.91	
4	13C-1,2,3,4,6,9-HxCDF	1.45e4	0.47	NO	1.00	2.021	33.54	1.000	989.67	100	41.9	

* Spoke w/client this morning (DAVID) and he OKd it. KG 06/29/23

Enthalpy Analytical EDH VG-12

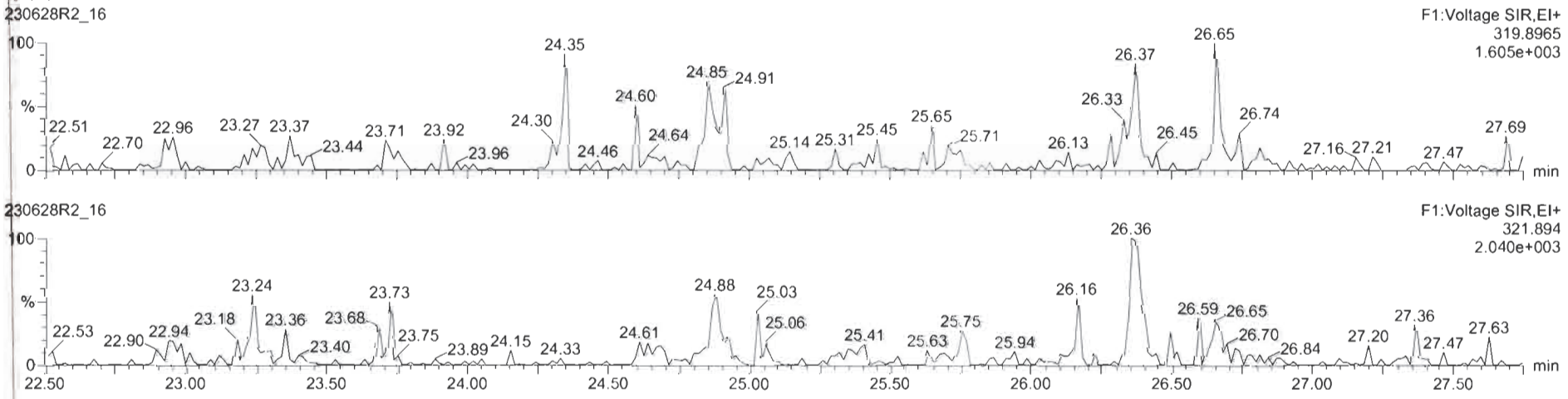
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Printed: Thursday, June 29, 2023 08:50:35 Pacific Daylight Time

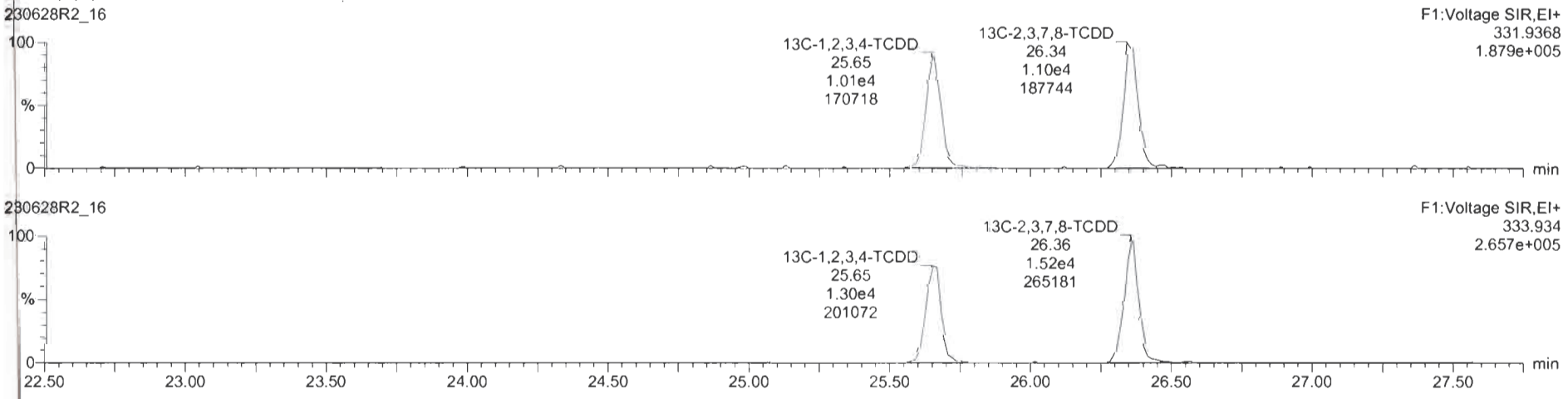
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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-25-23.cdb 26 Jun 2023 06:53:29

Name: 230628R2_16, Date: 29-Jun-2023, Time: 02:16:03, ID: 2305023-04RE1@10X PS63-SS-04 3.8, Description: **PS63-SS-04**

2,3,7,8-TCDD



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

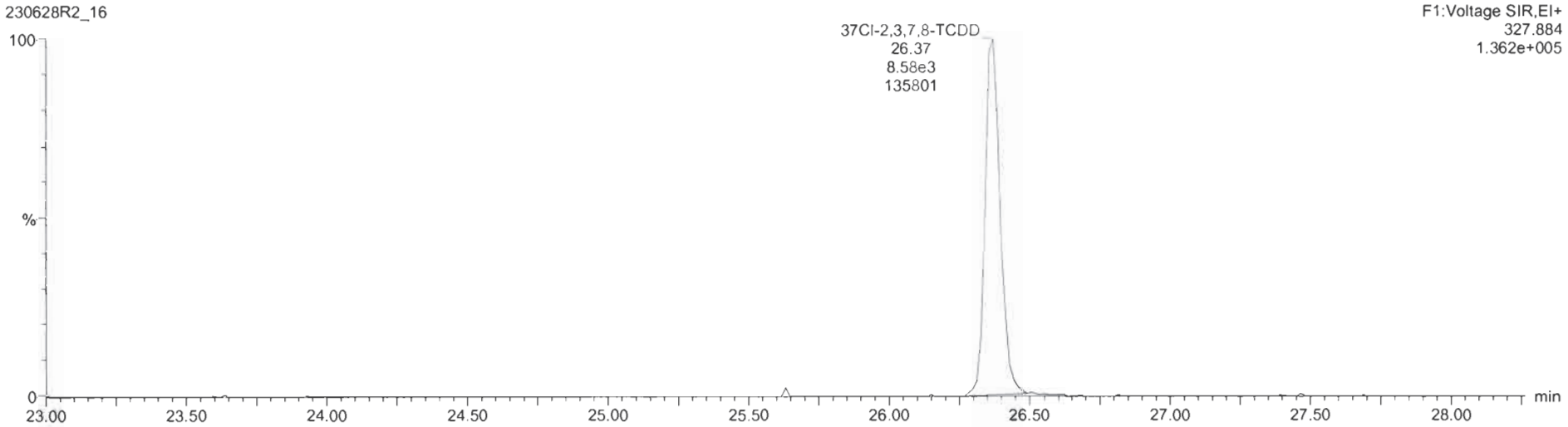


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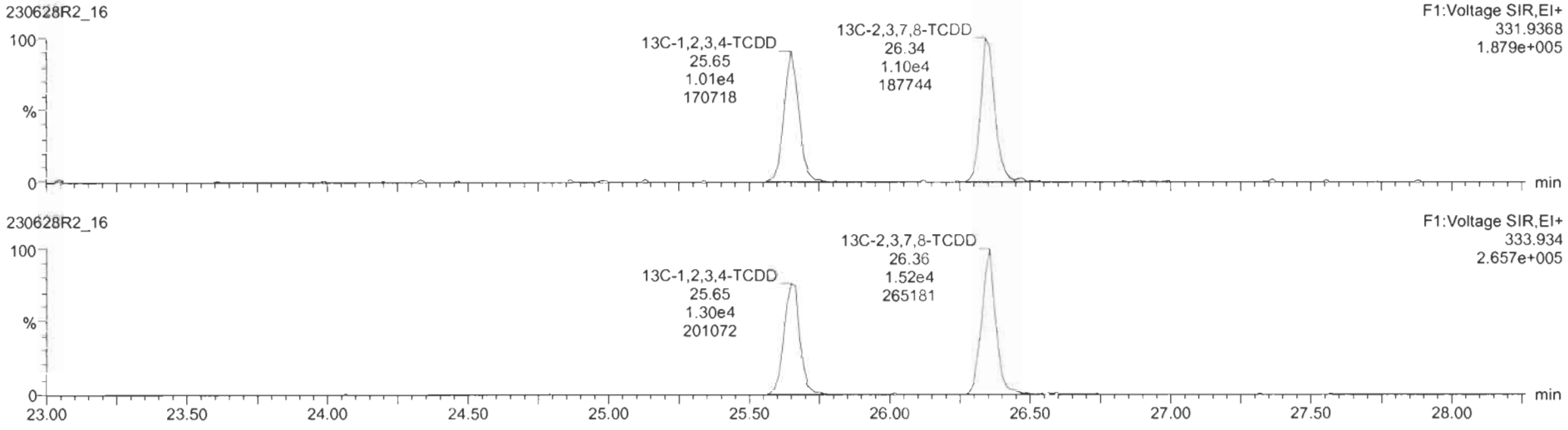
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37Cl-2,3,7,8-TCDD



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

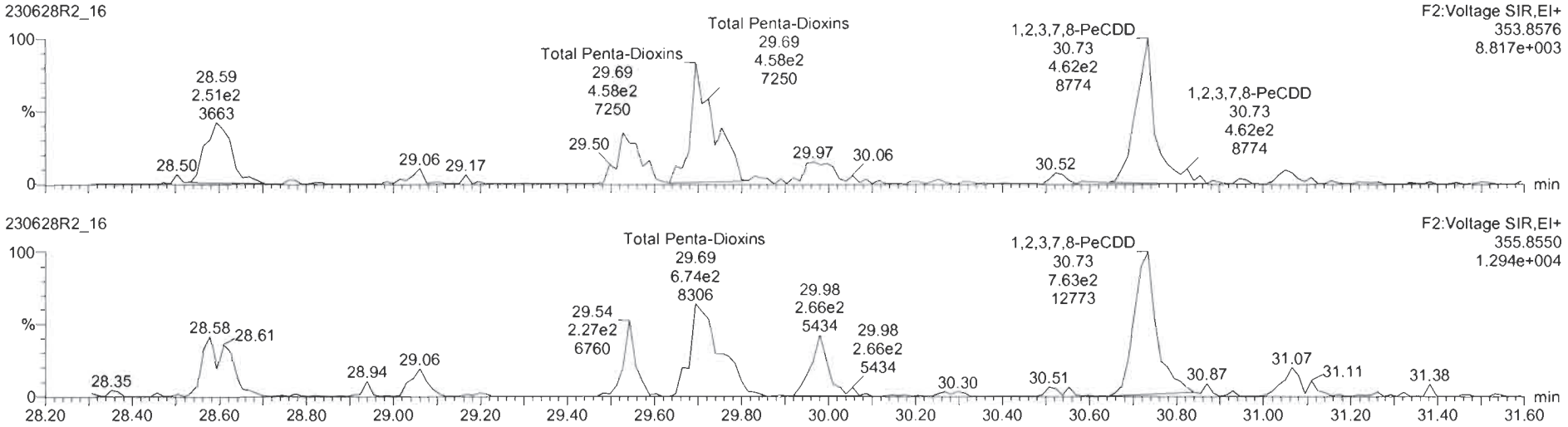


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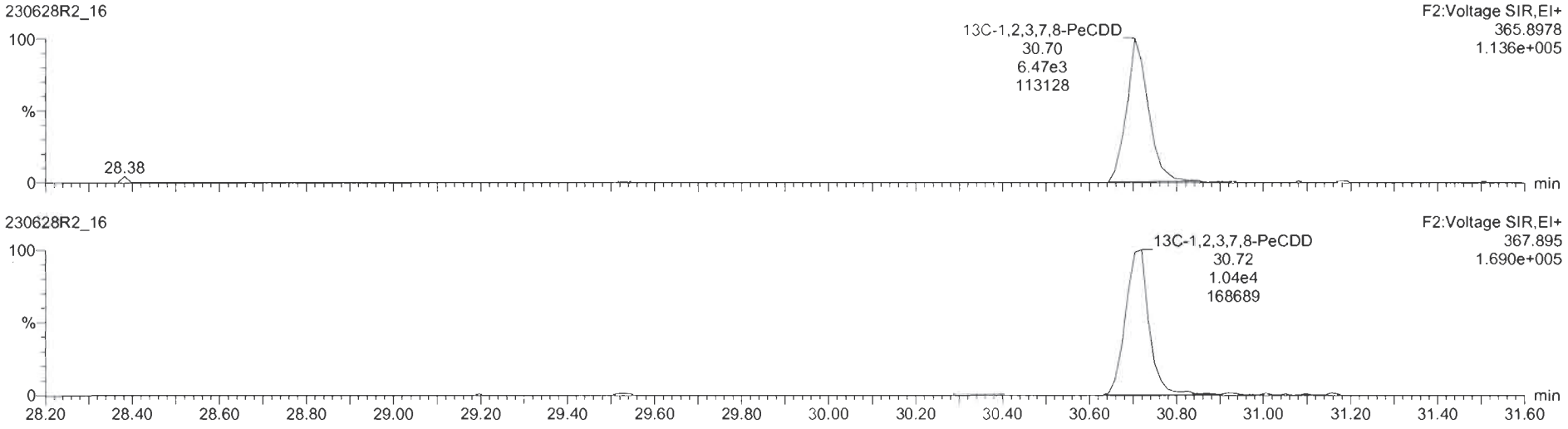
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1,2,3,7,8-PeCDD



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

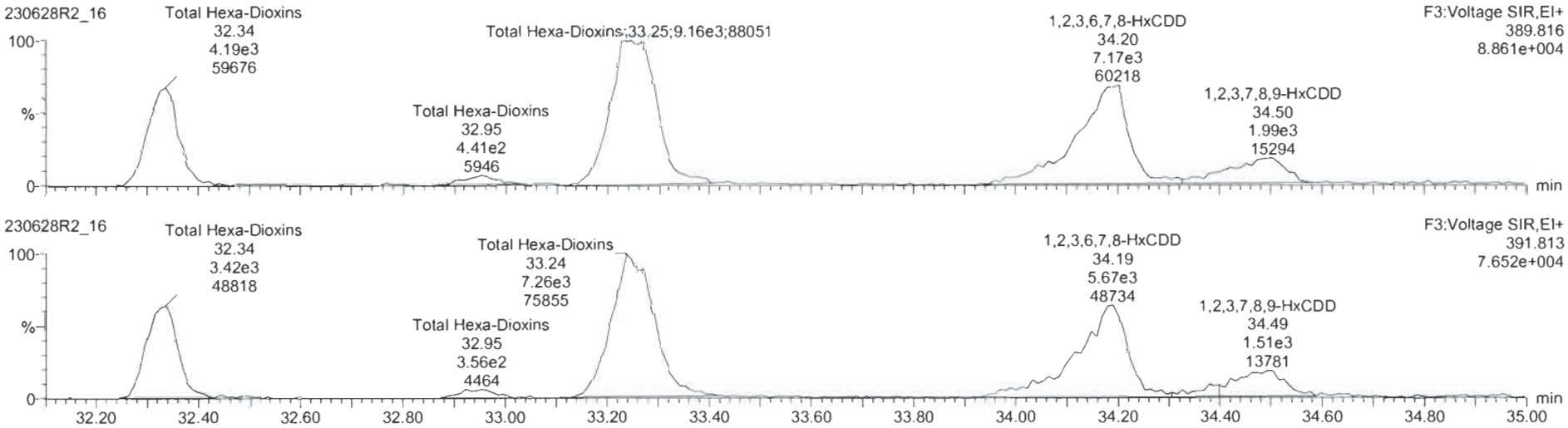


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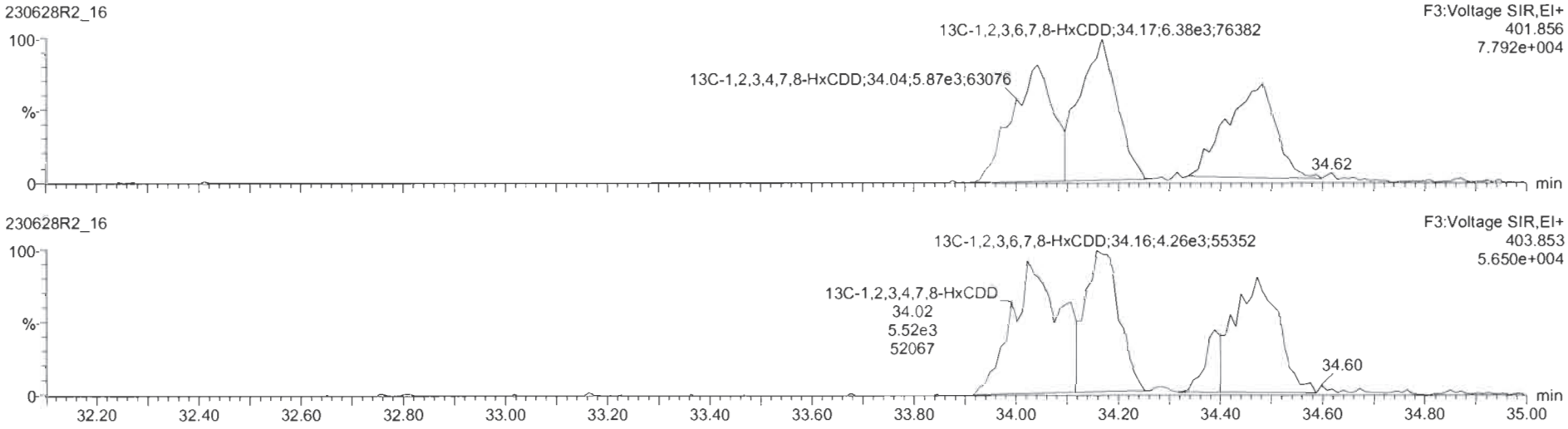
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1,2,3,4,7,8-HxCDD



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

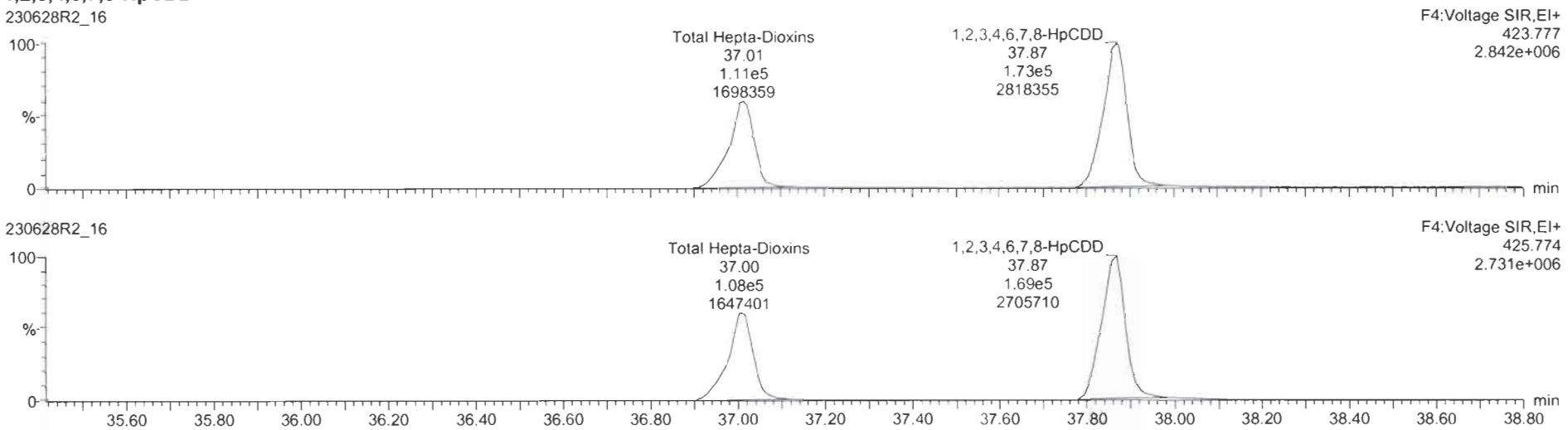


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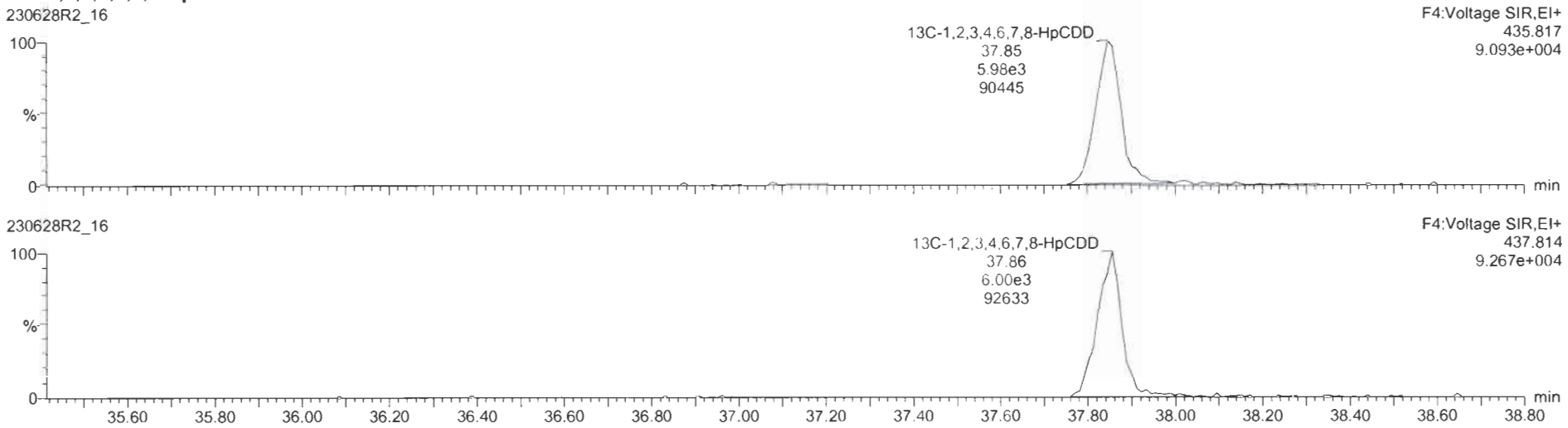
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1,2,3,4,6,7,8-HpCDD



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

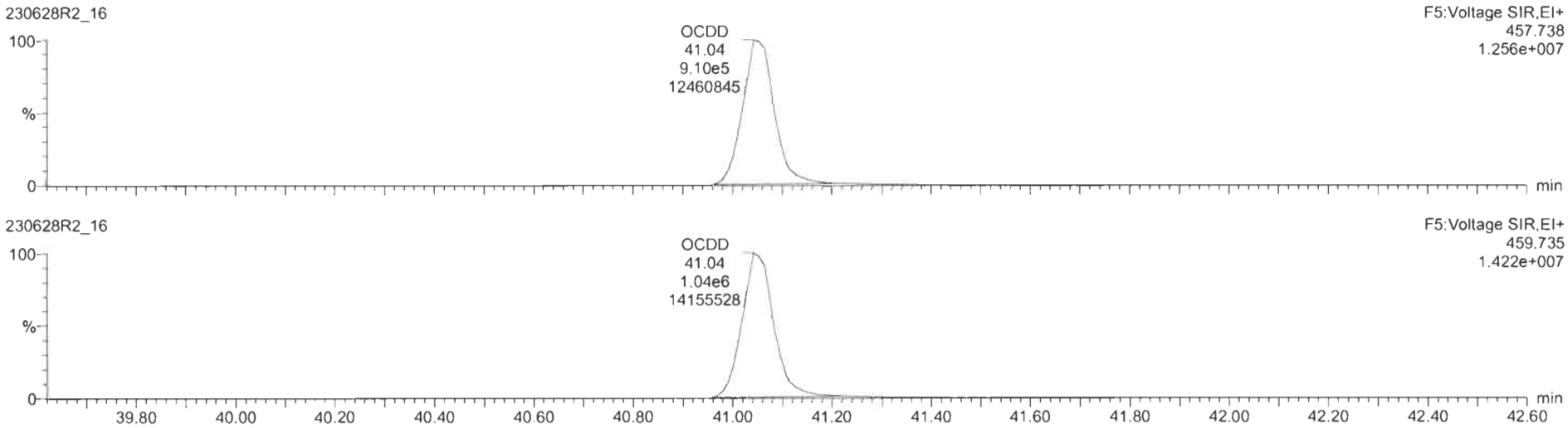


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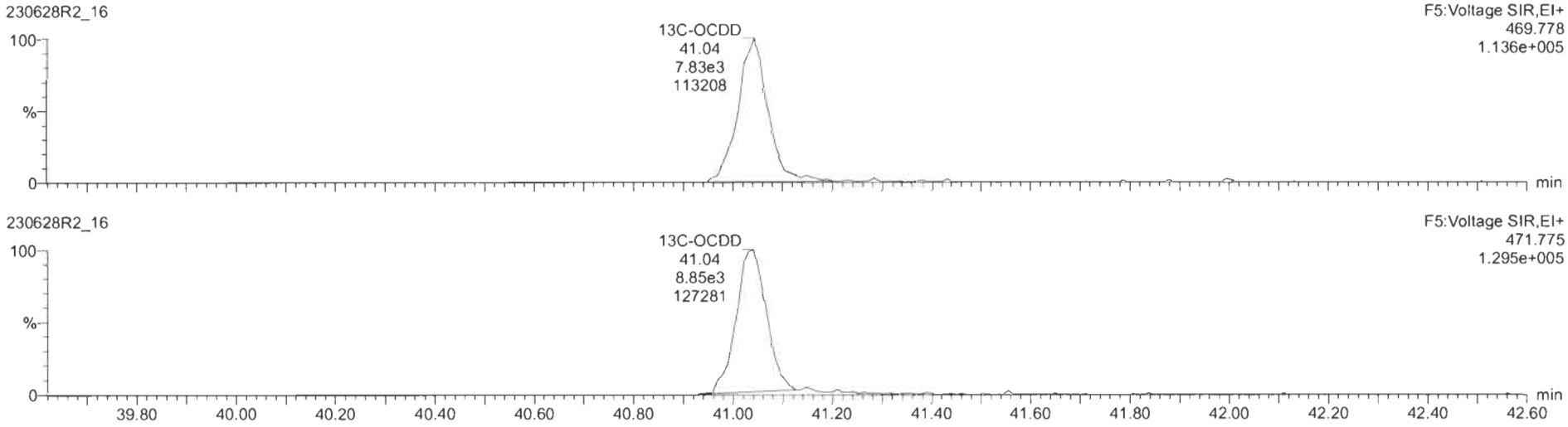
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Name: 230628R2_16, Date: 29-Jun-2023, Time: 02:16:03, ID: 2305023-04RE1@10X PS63-SS-04 3.8, Description: PS63-SS-04

OCDD



13C-OCDD

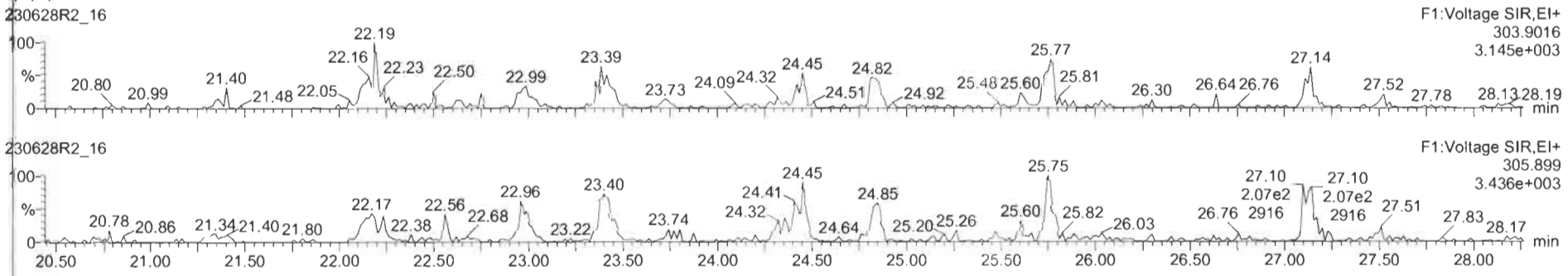


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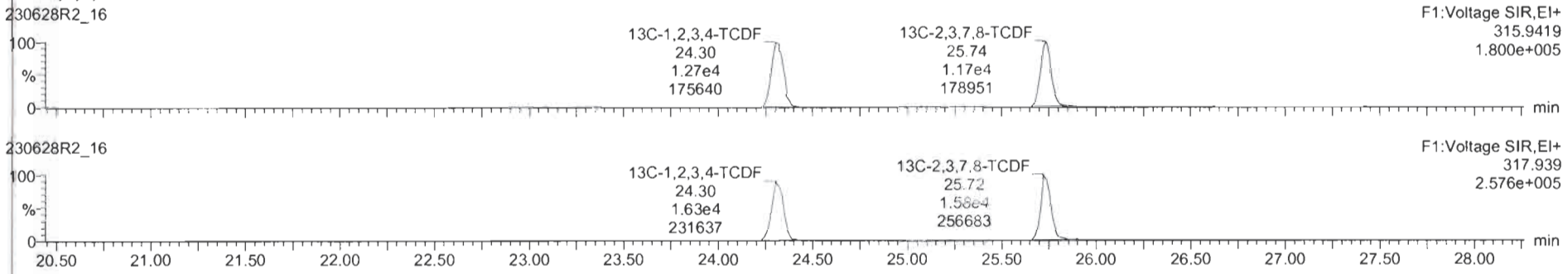
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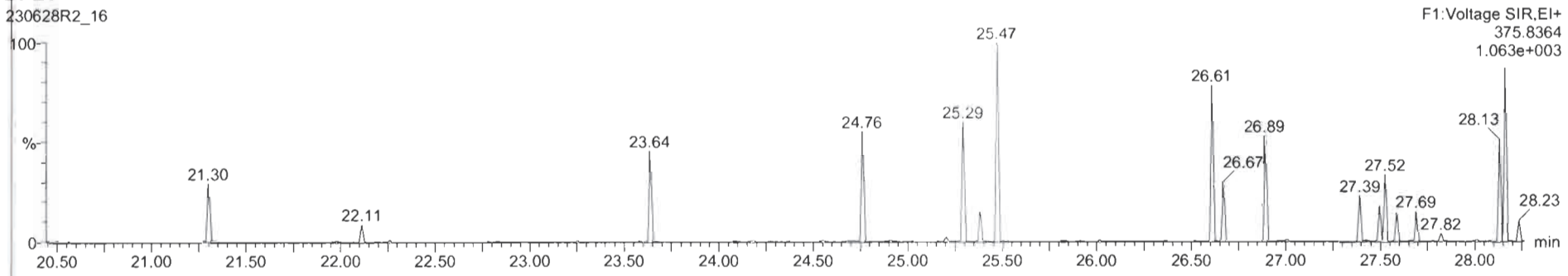
2,3,7,8-TCDF



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



DPE1

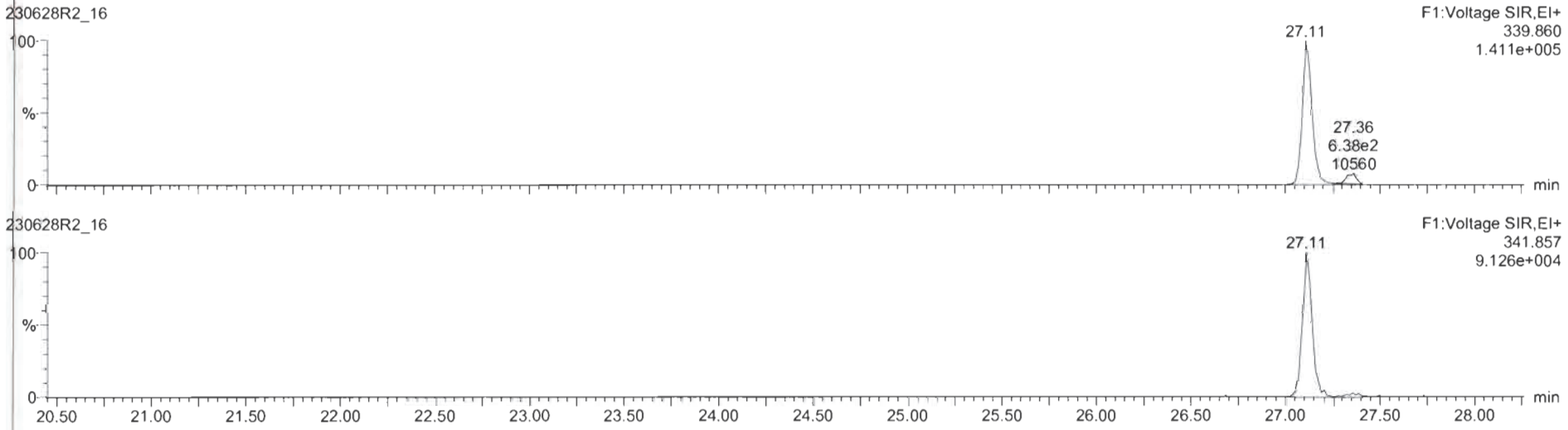


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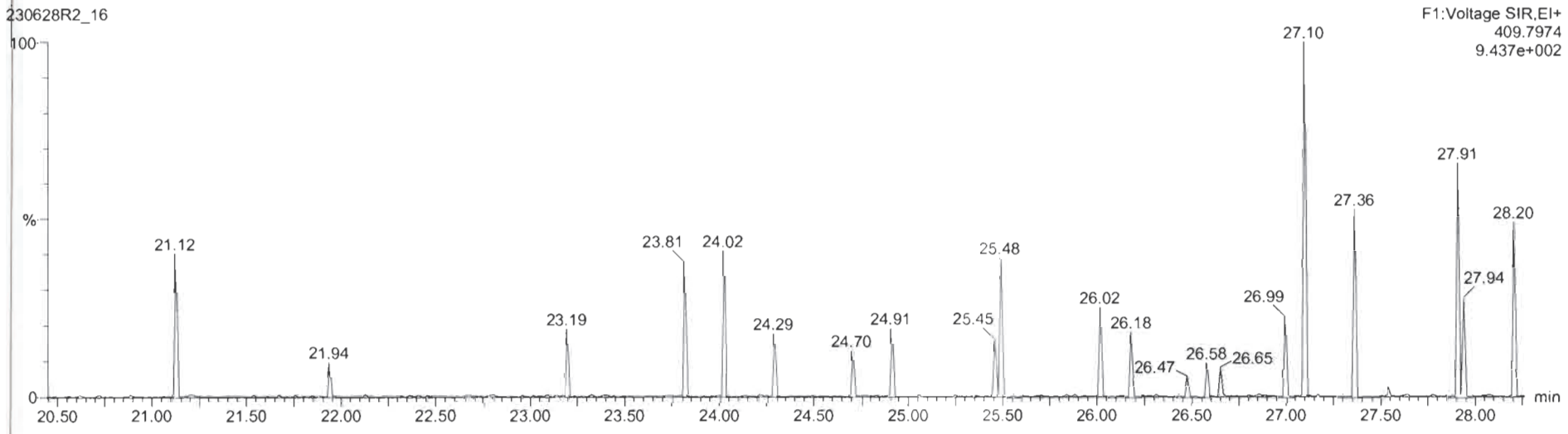
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Printed: Thursday, June 29, 2023 08:50:35 Pacific Daylight Time

Name: 230628R2_16, Date: 29-Jun-2023, Time: 02:16:03, ID: 2305023-04RE1@10X PS63-SS-04 3.8, Description: PS63-SS-04

1st Func. Penta-Furans



DPE6

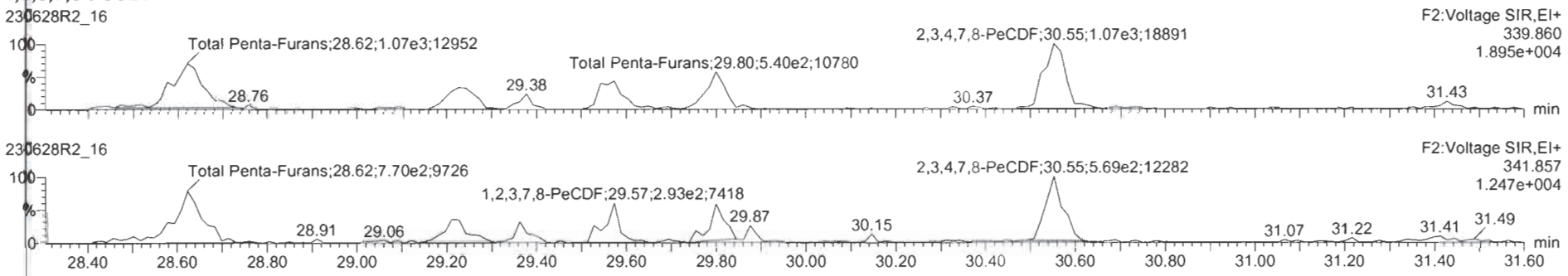


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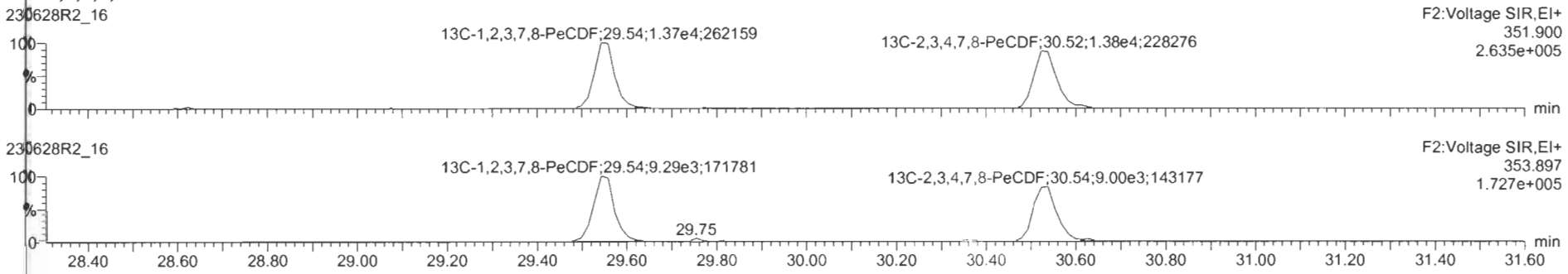
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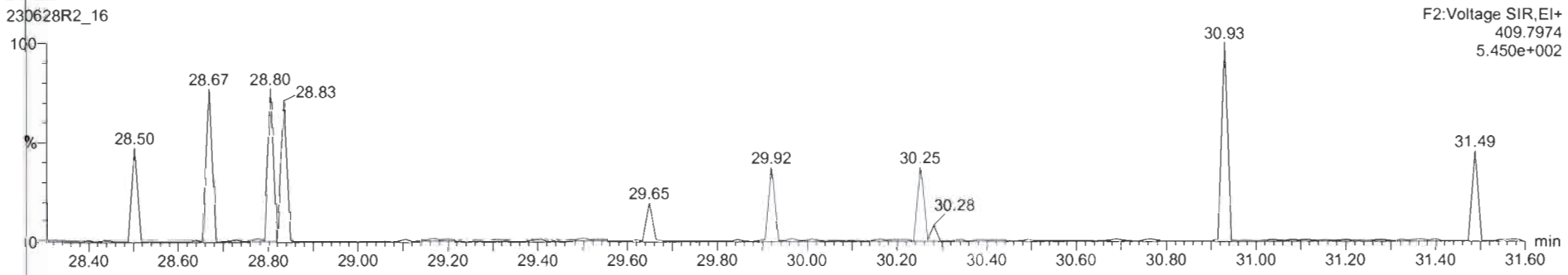
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13C-1,2,3,7,8-PeCDF



DPE2

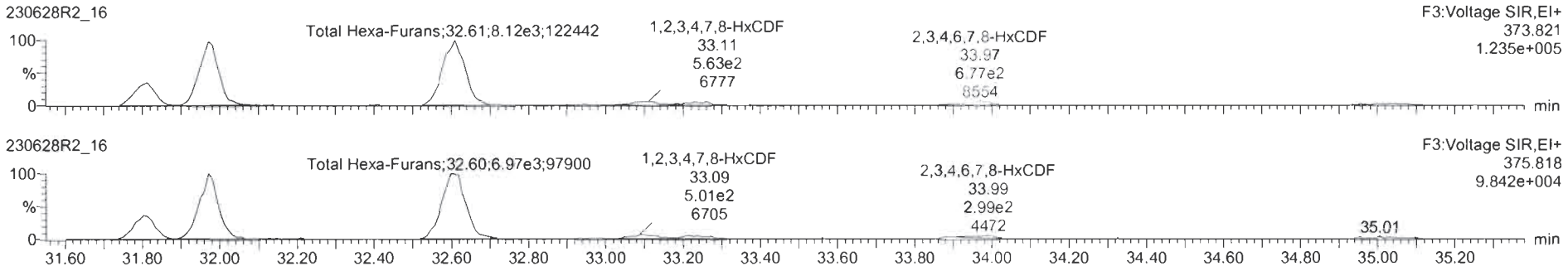


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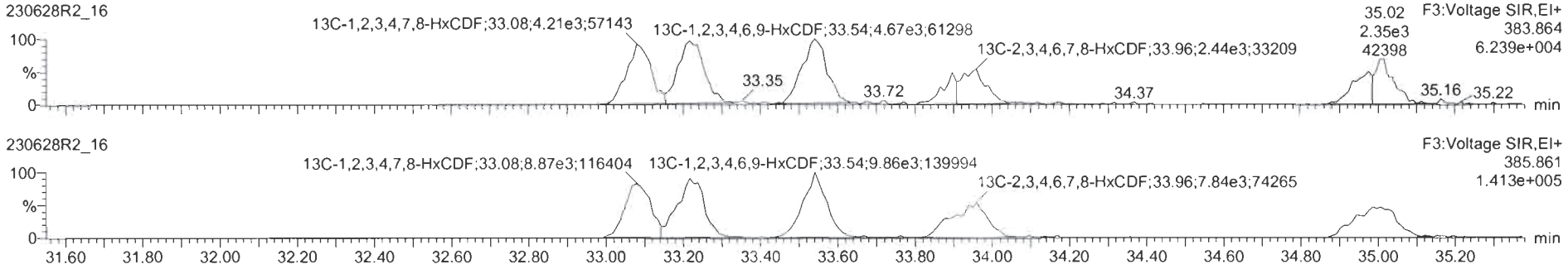
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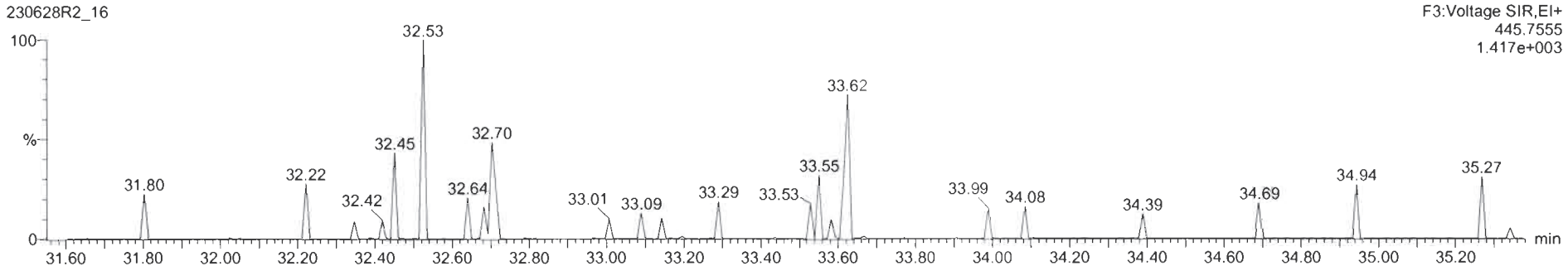
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13C-1,2,3,4,7,8-HxCDF



DPE3

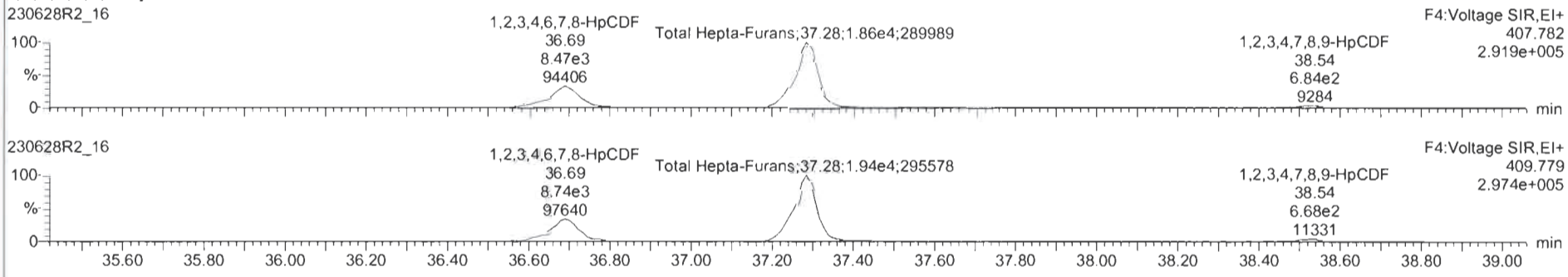


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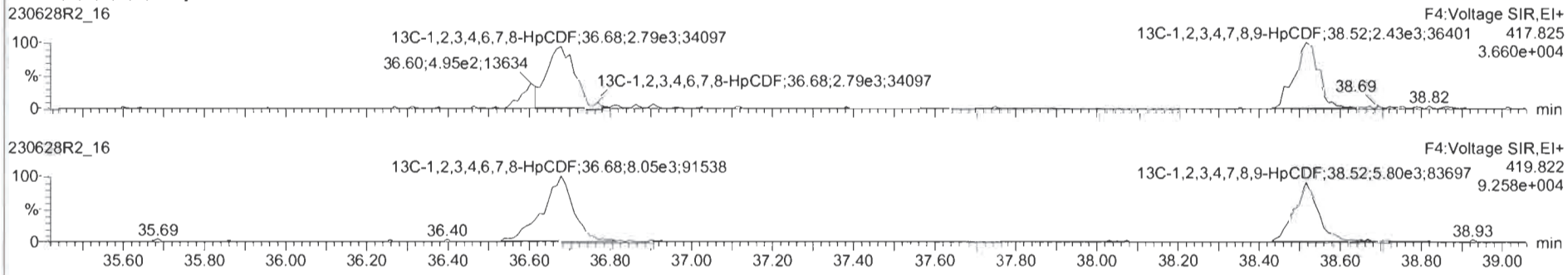
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Printed: Thursday, June 29, 2023 08:50:35 Pacific Daylight Time

Name: 230628R2_16, Date: 29-Jun-2023, Time: 02:16:03, ID: 2305023-04RE1@10X PS63-SS-04 3.8, Description: PS63-SS-04

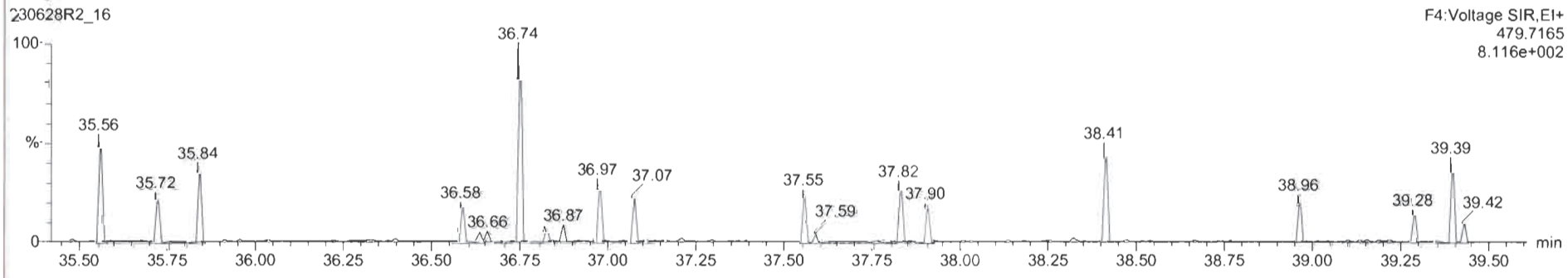
1,2,3,4,6,7,8-HpCDF



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



DPE4

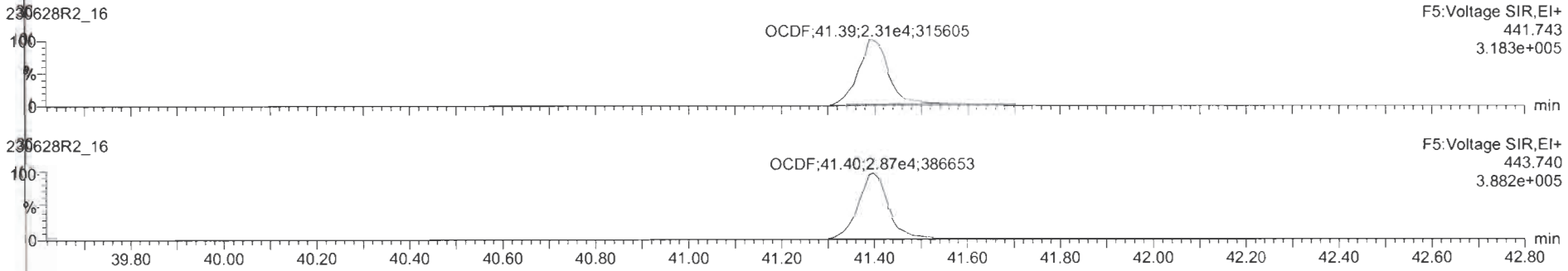


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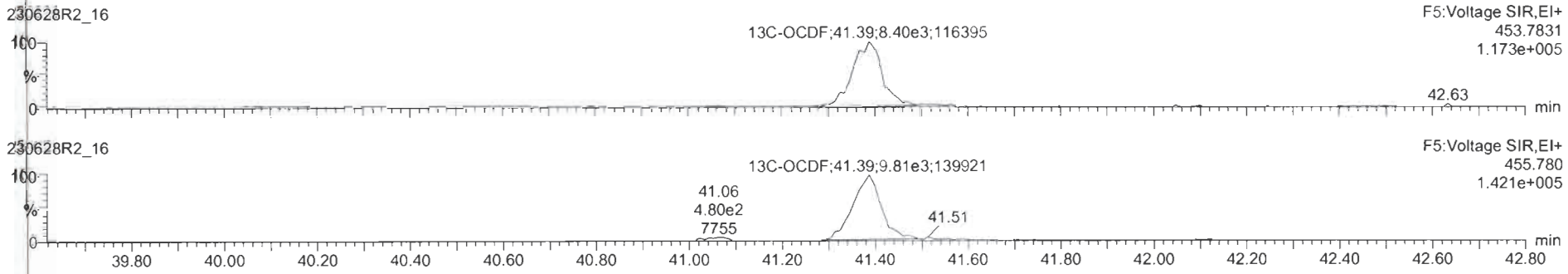
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Printed: Thursday, June 29, 2023 08:50:35 Pacific Daylight Time

Name: 230628R2_16, Date: 29-Jun-2023, Time: 02:16:03, ID: 2305023-04RE1@10X PS63-SS-04 3.8, Description: PS63-SS-04

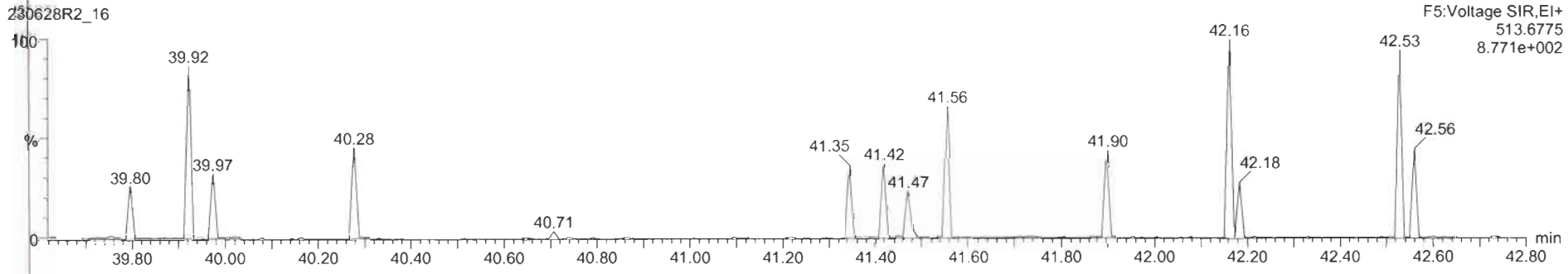
OCDF



13C-OCDF



DPE5

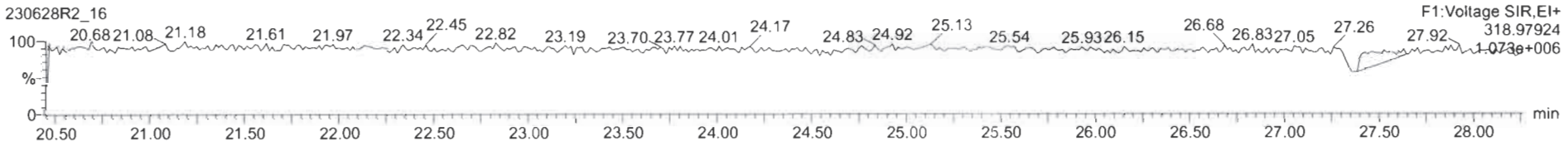


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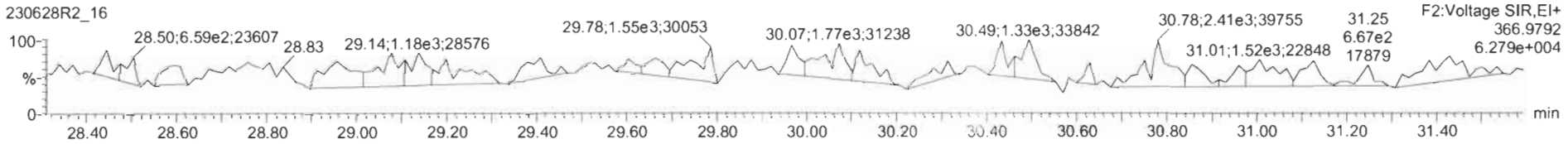
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Printed: Thursday, June 29, 2023 08:50:35 Pacific Daylight Time

Name: 230628R2_16, Date: 29-Jun-2023, Time: 02:16:03, ID: 2305023-04RE1@10X PS63-SS-04 3.8, Description: **PS63-SS-04**

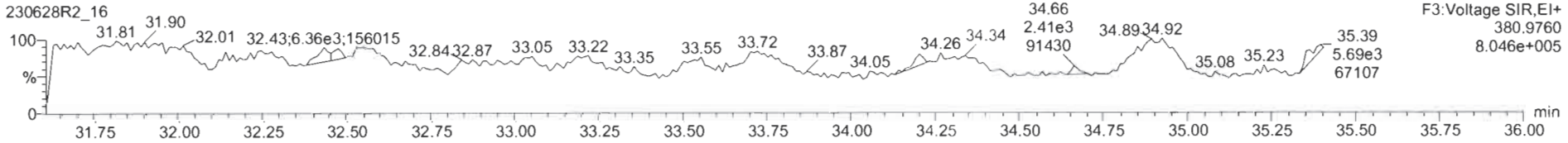
PFK1



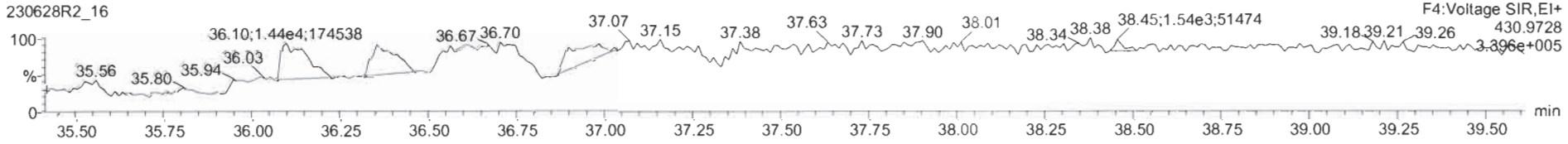
PFK2



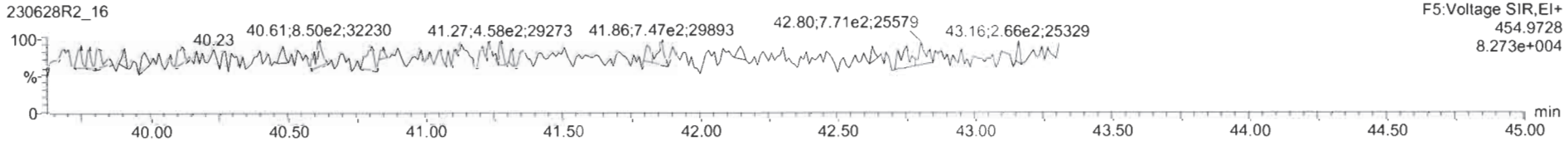
PFK3



PFK4



PFK5



Enthalpy Analytical EDH- VG-11

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-8.qld

Last Altered: Wednesday, June 21, 2023 11:18:26 AM Pacific Daylight Time
Printed: Wednesday, June 21, 2023 11:19:38 AM Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05, Task: ST230611R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.69e3	0.74	NO	0.906	10.027	26.77	1.001	2.5135		0.180	2.51
2	1,2,3,7,8-PeCDD	3.88e4	0.60	NO	0.745	10.027	31.01	1.000	36.975		0.498	37.0
3	1,2,3,4,7,8-HxCDD	5.47e4	1.29	NO	0.837	10.027	34.32	1.000	72.638		1.89	72.6
4	1,2,3,6,7,8-HxCDD	4.54e5	1.25	NO	0.782	10.027	34.45	1.000	540.50		1.87	541
5	1,2,3,7,8,9-HxCDD	1.17e5	1.27	NO	0.780	10.027	34.75	1.001	151.07		2.18	151
6	1,2,3,4,6,7,8-HpCDD	6.52e6	1.01	NO	0.903	10.027	38.10	1.000	9082.1 -E		4.19	9080
7	OCDD	3.53e7	0.89	NO	0.782	10.027	41.48	1.000	60078 +E		4.71	60100
8	2,3,7,8-TCDF	1.02e4	0.75	NO	0.852	10.027	26.17	1.001	6.7958		0.259	6.80
9	1,2,3,7,8-PeCDF	3.28e4	1.62	NO	0.758	10.027	29.88	1.001	22.218		0.638	22.2
10	2,3,4,7,8-PeCDF	7.72e4	1.65	NO	0.834	10.027	30.84	1.000	47.962		0.561	48.0
11	1,2,3,4,7,8-HxCDF	4.23e4	1.21	NO	0.762	10.027	33.39	1.000	51.702		1.13	51.7
12	1,2,3,6,7,8-HxCDF	3.75e4	1.23	NO	0.726	10.027	33.53	1.001	39.853		1.10	39.9
13	2,3,4,6,7,8-HxCDF	3.80e4	1.18	NO	0.756	10.027	34.24	1.001	48.093		1.30	48.1
14	1,2,3,7,8,9-HxCDF	1.90e4	1.14	NO	0.749	10.027	35.33	1.001	30.396		1.93	30.4
15	1,2,3,4,6,7,8-HpCDF	3.14e5	0.98	NO	0.754	10.027	36.90	1.000	621.24		1.59	621
16	1,2,3,4,7,8,9-HpCDF	9.17e3	0.96	NO	0.792	10.027	38.81	1.000	24.152		2.23	24.2
17	OCDF	2.42e5	0.83	NO	0.669	10.027	41.80	1.000	521.03		1.73	521
18	13C-2,3,7,8-TCDD	3.23e5	0.77	NO	1.13	10.027	26.74	1.026	195.21	97.9	0.332	
19	13C-1,2,3,7,8-PeCDD	2.81e5	0.62	NO	0.869	10.027	30.99	1.189	219.82	110	0.407	
20	13C-1,2,3,4,7,8-HxCDD	1.80e5	1.24	NO	0.746	10.027	34.31	1.014	198.33	99.4	0.968	
21	13C-1,2,3,6,7,8-HxCDD	2.14e5	1.21	NO	0.803	10.027	34.44	1.018	219.90	110	0.900	
22	13C-1,2,3,7,8,9-HxCDD	1.99e5	1.22	NO	0.817	10.027	34.73	1.026	200.44	100	0.884	
23	13C-1,2,3,4,6,7,8-HpCDD	1.58e5	0.99	NO	0.611	10.027	38.09	1.126	213.48	107	0.691	
24	13C-OCDD	3.00e5	0.88	NO	0.545	10.027	41.47	1.225	452.20	113	0.865	
25	13C-2,3,7,8-TCDF	3.51e5	0.75	NO	1.07	10.027	26.15	1.003	164.10	82.3	0.293	
26	13C-1,2,3,7,8-PeCDF	3.88e5	1.57	NO	0.907	10.027	29.86	1.145	215.08	108	0.845	
27	13C-2,3,4,7,8-PeCDF	3.85e5	1.54	NO	0.889	10.027	30.83	1.182	217.29	109	0.862	
28	13C-1,2,3,4,7,8-HxCDF	2.14e5	0.49	NO	0.993	10.027	33.39	0.987	177.57	89.0	1.19	
29	13C-1,2,3,6,7,8-HxCDF	2.59e5	0.48	NO	1.05	10.027	33.51	0.990	202.31	101	1.12	
30	13C-2,3,4,6,7,8-HxCDF	2.08e5	0.49	NO	0.956	10.027	34.21	1.011	179.48	90.0	1.24	

Enthalpy Analytical EDH- VG-11

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-8.qld

Last Altered: Wednesday, June 21, 2023 11:18:26 AM Pacific Daylight Time
Printed: Wednesday, June 21, 2023 11:19:38 AM Pacific Daylight Time

Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05, Task: ST230611R2_1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.67e5	0.48	NO	0.853	10.027	35.28	1.043	161.27	80.9	1.39	
32	13C-1,2,3,4,6,7,8-HpCDF	1.34e5	0.39	NO	0.721	10.027	36.90	1.091	152.88	76.6	1.50	
33	13C-1,2,3,4,7,8,9-HpCDF	9.55e4	0.40	NO	0.581	10.027	38.79	1.146	135.45	67.9	1.86	
34	13C-OCDF	2.76e5	0.86	NO	0.718	10.027	41.79	1.235	316.95	79.4	1.12	
35	37Cl-2,3,7,8-TCDD	1.17e5			0.980	10.027	26.76	1.026	81.030	102	0.119	
36	13C-1,2,3,4-TCDD	2.93e5	0.77	NO	1.00	10.027	26.08	1.000	199.47	100	0.373	
37	13C-1,2,3,4-TCDF	3.97e5	0.75	NO	1.00	10.027	24.79	1.000	199.47	100	0.314	
38	13C-1,2,3,4,6,9-HxCDF	2.42e5	0.48	NO	1.00	10.027	33.84	1.000	199.47	100	1.18	
39	Total Tetra-Dioxins				0.906	10.027			12.346		0.180	14.8
40	Total Penta-Dioxins				0.745	10.027			159.04		0.498	163
41	Total Hexa-Dioxins				0.782	10.027			2355.4		2.02	2360
42	Total Hepta-Dioxins				0.903	10.027			18594		4.19	18600
43	Total Tetra-Furans				0.852	10.027			59.431		0.259	60.2
44	1st Func. Penta-Furans				0.758	10.027			349.36		0.0647	349
45	Total Penta-Furans				0.758	10.027			192.53		0.628	194
46	Total Hexa-Furans				0.756	10.027			1956.2		1.30	1960
47	Total Hepta-Furans				0.754	10.027			1913.9		1.90	1910

Quantify Totals Report MassLynx 4.1 SCN815
Enthalpy Analytical EDH- VG-11

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-8.qld

Last Altered: Wednesday, June 21, 2023 11:18:26 AM Pacific Daylight Time
Printed: Wednesday, June 21, 2023 11:19:38 AM Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05, Task: ST230611R2_1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.49	1.058e4	1.347e4	7.917e2	1.098e3	0.72	NO	1.890e3	1.2880	1.2880	0.180
2	Total Tetra-Dioxins	23.80	8.225e3	1.289e4	7.131e2	9.521e2	0.75	NO	1.665e3	1.1349	1.1349	0.180
3	Total Tetra-Dioxins	23.95	2.302e3	1.529e3	1.473e2	5.704e1	2.58	YES	0.000e0	0.00000	0.068819	0.180
4	Total Tetra-Dioxins	24.22	7.421e3	1.263e4	6.308e2	9.701e2	0.65	YES	0.000e0	0.00000	0.98828	0.180
5	Total Tetra-Dioxins	24.94	4.012e3	4.097e3	2.337e2	2.442e2	0.96	YES	0.000e0	0.00000	0.29463	0.180
6	Total Tetra-Dioxins	25.12	6.645e3	1.205e4	5.397e2	8.156e2	0.66	NO	1.355e3	0.92380	0.92380	0.180
7	Total Tetra-Dioxins	25.34	2.350e4	2.735e4	1.544e3	1.995e3	0.77	NO	3.539e3	2.4123	2.4123	0.180
8	Total Tetra-Dioxins	25.50	6.372e3	7.011e3	4.694e2	5.118e2	0.92	YES	0.000e0	0.00000	0.61751	0.180
9	Total Tetra-Dioxins	25.75	4.918e3	6.190e3	2.643e2	3.201e2	0.83	NO	5.844e2	0.39835	0.39835	0.180
10	Total Tetra-Dioxins	25.83	7.422e3	8.801e3	5.658e2	6.842e2	0.83	NO	1.250e3	0.85196	0.85196	0.180
11	Total Tetra-Dioxins	26.11	2.952e3	3.996e3	1.756e2	2.081e2	0.84	NO	3.837e2	0.26153	0.26153	0.180
12	Total Tetra-Dioxins	26.17	3.911e3	6.159e3	2.621e2	3.625e2	0.72	NO	6.246e2	0.42575	0.42575	0.180
13	Total Tetra-Dioxins	26.51	4.972e3	5.979e3	4.446e2	6.485e2	0.69	NO	1.093e3	0.74503	0.74503	0.180
14	2,3,7,8-TCDD	26.77	2.673e4	3.276e4	1.568e3	2.119e3	0.74	NO	3.688e3	2.5135	2.5135	0.180
15	Total Tetra-Dioxins	27.05	1.503e4	1.772e4	9.327e2	1.107e3	0.84	NO	2.040e3	1.3906	1.3906	0.180
16	Total Tetra-Dioxins	27.20	4.677e3	3.501e3	2.678e2	2.094e2	1.28	YES	0.000e0	0.00000	0.25264	0.180
17	Total Tetra-Dioxins	27.60	2.101e3	3.346e3	1.282e2	1.987e2	0.65	YES	0.000e0	0.00000	0.20082	0.180

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-8.qld

Last Altered: Wednesday, June 21, 2023 11:18:26 AM Pacific Daylight Time
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Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05, Task: ST230611R2_1

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.94	1.906e5	3.106e5	1.505e4	2.360e4	0.64	NO	3.865e4	36.863	36.863	0.498
2	Total Penta-Dioxins	29.38	5.507e4	9.701e4	3.194e3	5.174e3	0.62	NO	8.368e3	7.9816	7.9816	0.498
3	Total Penta-Dioxins	29.85	9.673e4	1.738e5	5.462e3	9.242e3	0.59	NO	1.470e4	14.025	14.025	0.498
4	Total Penta-Dioxins	30.01	2.286e5	4.022e5	1.624e4	2.806e4	0.58	NO	4.431e4	42.261	42.261	0.498
5	Total Penta-Dioxins	30.30	7.377e4	1.140e5	6.201e3	9.806e3	0.63	NO	1.601e4	15.267	15.267	0.498
6	1,2,3,7,8-PeCDD	31.01	2.815e5	4.394e5	1.456e4	2.420e4	0.60	NO	3.877e4	36.975	36.975	0.498
7	Total Penta-Dioxins	31.07	4.560e4	7.487e4	2.208e3	3.732e3	0.59	NO	5.940e3	5.6653	5.6653	0.498
8	Total Penta-Dioxins	31.34	2.801e4	4.979e4	1.682e3	3.292e3	0.51	YES	0.000e0	0.00000	4.1510	0.498

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.63	4.116e6	3.307e6	2.283e5	1.826e5	1.25	NO	4.109e5	530.40	530.40	2.02
2	Total Hexa-Dioxins	33.23	3.131e5	2.388e5	1.827e4	1.373e4	1.33	NO	3.201e4	41.312	41.312	2.02
3	Total Hexa-Dioxins	33.55	5.700e6	4.455e6	4.043e5	3.210e5	1.26	NO	7.252e5	936.13	936.13	2.02
4	Total Hexa-Dioxins	33.63	4.220e5	3.315e5	2.495e4	1.979e4	1.26	NO	4.474e4	57.755	57.755	2.02
5	1,2,3,4,7,8-HxCDD	34.32	5.301e5	4.024e5	3.083e4	2.391e4	1.29	NO	5.474e4	72.638	72.638	1.89
6	1,2,3,6,7,8-HxCDD	34.45	3.832e6	3.097e6	2.527e5	2.015e5	1.25	NO	4.542e5	540.50	540.50	1.87
7	Total Hexa-Dioxins	34.62	1.670e5	1.185e5	1.161e4	8.199e3	1.42	NO	1.981e4	25.573	25.573	2.02
8	1,2,3,7,8,9-HxCDD	34.75	8.796e5	6.943e5	6.580e4	5.162e4	1.27	NO	1.174e5	151.07	151.07	2.18

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.23	6.011e7	6.006e7	3.433e6	3.390e6	1.01	NO	6.823e6	9511.9	9511.9	4.19
2	1,2,3,4,6,7,8-HpCDD	38.10	5.624e7	5.593e7	3.278e6	3.238e6	1.01	NO	6.515e6	9082.1	9082.1	4.19

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-8.qld

Last Altered: Wednesday, June 21, 2023 11:18:26 AM Pacific Daylight Time
Printed: Wednesday, June 21, 2023 11:19:38 AM Pacific Daylight Time

Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05, Task: ST230611R2_1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.51	2.160e3	3.432e3	2.094e2	2.918e2	0.72	NO	5.012e2	0.33461	0.33461	0.259
2	Total Tetra-Furans	22.04	8.740e3	1.198e4	7.626e2	1.076e3	0.71	NO	1.838e3	1.2272	1.2272	0.259
3	Total Tetra-Furans	22.78	6.302e4	9.678e4	5.800e3	8.297e3	0.70	NO	1.410e4	9.4114	9.4114	0.259
4	Total Tetra-Furans	23.06	3.816e3	5.257e3	4.071e2	5.128e2	0.79	NO	9.199e2	0.61412	0.61412	0.259
5	Total Tetra-Furans	23.27	5.011e3	5.417e3	5.558e2	7.776e2	0.71	NO	1.333e3	0.89025	0.89025	0.259
6	Total Tetra-Furans	23.53	4.305e4	5.583e4	3.695e3	4.740e3	0.78	NO	8.435e3	5.6311	5.6311	0.259
7	Total Tetra-Furans	23.93	9.107e4	1.209e5	6.880e3	9.520e3	0.72	NO	1.640e4	10.948	10.948	0.259
8	Total Tetra-Furans	24.22	8.747e3	1.078e4	6.741e2	8.917e2	0.76	NO	1.566e3	1.0453	1.0453	0.259
9	Total Tetra-Furans	24.57	2.541e3	2.293e3	9.358e1	1.306e2	0.72	NO	2.241e2	0.14964	0.14964	0.259
10	Total Tetra-Furans	24.66	5.051e3	6.619e3	3.351e2	4.286e2	0.78	NO	7.638e2	0.50990	0.50990	0.259
11	Total Tetra-Furans	24.90	6.436e4	8.251e4	5.824e3	7.760e3	0.75	NO	1.358e4	9.0688	9.0688	0.259
12	Total Tetra-Furans	25.29	4.430e4	6.468e4	3.282e3	4.413e3	0.74	NO	7.695e3	5.1375	5.1375	0.259
13	Total Tetra-Furans	25.58	4.152e3	4.592e3	2.091e2	2.265e2	0.92	YES	0.000e0	0.00000	0.26769	0.259
14	Total Tetra-Furans	25.69	1.901e3	4.605e3	1.025e2	2.249e2	0.46	YES	0.000e0	0.00000	0.15735	0.259
15	Total Tetra-Furans	25.92	3.695e3	4.220e3	2.338e2	2.611e2	0.90	YES	0.000e0	0.00000	0.30858	0.259
16	Total Tetra-Furans	26.05	1.505e4	1.791e4	8.486e2	1.274e3	0.67	NO	2.122e3	1.4169	1.4169	0.259
17	2,3,7,8-TCDF	26.17	6.678e4	9.087e4	4.351e3	5.828e3	0.75	NO	1.018e4	6.7958	6.7958	0.259
18	Total Tetra-Furans	26.46	5.947e3	8.938e3	4.815e2	6.051e2	0.80	NO	1.087e3	0.72543	0.72543	0.259
19	Total Tetra-Furans	27.50	3.890e4	5.455e4	2.848e3	3.676e3	0.77	NO	6.524e3	4.3554	4.3554	0.259
20	Total Tetra-Furans	27.67	4.422e3	5.604e3	2.608e2	3.162e2	0.82	NO	5.770e2	0.38520	0.38520	0.259
21	Total Tetra-Furans	27.88	9.196e3	9.981e3	4.984e2	6.759e2	0.74	NO	1.174e3	0.78393	0.78393	0.259

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.48	5.409e6	3.568e6	3.140e5	1.989e5	1.58	NO	5.128e5	349.36	349.36	0.0647

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-8.qld

Last Altered: Wednesday, June 21, 2023 11:18:26 AM Pacific Daylight Time
Printed: Wednesday, June 21, 2023 11:19:38 AM Pacific Daylight Time

Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05, Task: ST230611R2_1

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.84	4.451e4	3.280e4	2.964e3	1.929e3	1.54	NO	4.893e3	3.3333	3.3333	0.628
2	Total Penta-Furans	28.97	6.479e5	3.861e5	5.332e4	3.199e4	1.67	NO	8.531e4	58.119	58.119	0.628
3	Total Penta-Furans	29.53	2.735e5	1.718e5	1.843e4	1.150e4	1.60	NO	2.993e4	20.390	20.390	0.628
4	Total Penta-Furans	29.70	1.524e5	8.885e4	9.194e3	5.756e3	1.60	NO	1.495e4	10.184	10.184	0.628
5	1,2,3,7,8-PeCDF	29.88	3.688e5	2.228e5	2.026e4	1.251e4	1.62	NO	3.277e4	22.218	22.218	0.638
6	Total Penta-Furans	30.10	4.242e5	2.641e5	2.379e4	1.462e4	1.63	NO	3.842e4	26.170	26.170	0.628
7	Total Penta-Furans	30.69	2.072e4	1.164e4	1.238e3	6.249e2	1.98	YES	0.000e0	0.00000	1.0855	0.628
8	2,3,4,7,8-PeCDF	30.84	7.683e5	4.868e5	4.799e4	2.917e4	1.65	NO	7.716e4	47.962	47.962	0.561
9	Total Penta-Furans	31.70	5.812e4	3.345e4	3.648e3	2.456e3	1.49	NO	6.104e3	4.1585	4.1585	0.628

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.09	2.580e6	2.116e6	1.315e5	1.104e5	1.19	NO	2.419e5	301.04	301.04	1.30
2	Total Hexa-Furans	32.26	5.130e6	4.321e6	2.731e5	2.318e5	1.18	NO	5.049e5	628.31	628.31	1.30
3	Total Hexa-Furans	32.69	4.684e4	3.871e4	2.895e3	2.527e3	1.15	NO	5.421e3	6.7458	6.7458	1.30
4	Total Hexa-Furans	32.91	6.489e6	5.485e6	3.599e5	3.045e5	1.18	NO	6.645e5	826.87	826.87	1.30
5	Total Hexa-Furans	33.27	4.908e4	3.689e4	3.002e3	2.648e3	1.13	NO	5.650e3	7.0309	7.0309	1.30
6	1,2,3,4,7,8-HxCDF	33.39	3.982e5	3.333e5	2.318e4	1.914e4	1.21	NO	4.231e4	51.702	51.702	1.13
7	1,2,3,6,7,8-HxCDF	33.53	3.480e5	2.700e5	2.067e4	1.687e4	1.23	NO	3.753e4	39.853	39.853	1.10
8	Total Hexa-Furans	33.86	3.008e4	2.363e4	1.943e3	1.619e3	1.20	NO	3.562e3	4.4319	4.4319	1.30
9	2,3,4,6,7,8-HxCDF	34.24	3.145e5	2.721e5	2.054e4	1.744e4	1.18	NO	3.798e4	48.093	48.093	1.30
10	Total Hexa-Furans	34.28	1.348e5	1.019e5	3.463e3	2.694e3	1.29	NO	6.157e3	7.6621	7.6621	1.30
11	1,2,3,7,8,9-HxCDF	35.33	1.488e5	1.233e5	1.016e4	8.885e3	1.14	NO	1.904e4	30.396	30.396	1.93
12	Total Hexa-Furans	35.37	5.779e4	3.977e4	1.780e3	1.516e3	1.17	NO	3.296e3	4.1012	4.1012	1.30

Dataset: I:\VG12.PRO\Results\230611R2\230611R2-8.qld

Last Altered: Wednesday, June 21, 2023 11:18:26 AM Pacific Daylight Time
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Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05, Task: ST230611R2_1

Hepta-Furans

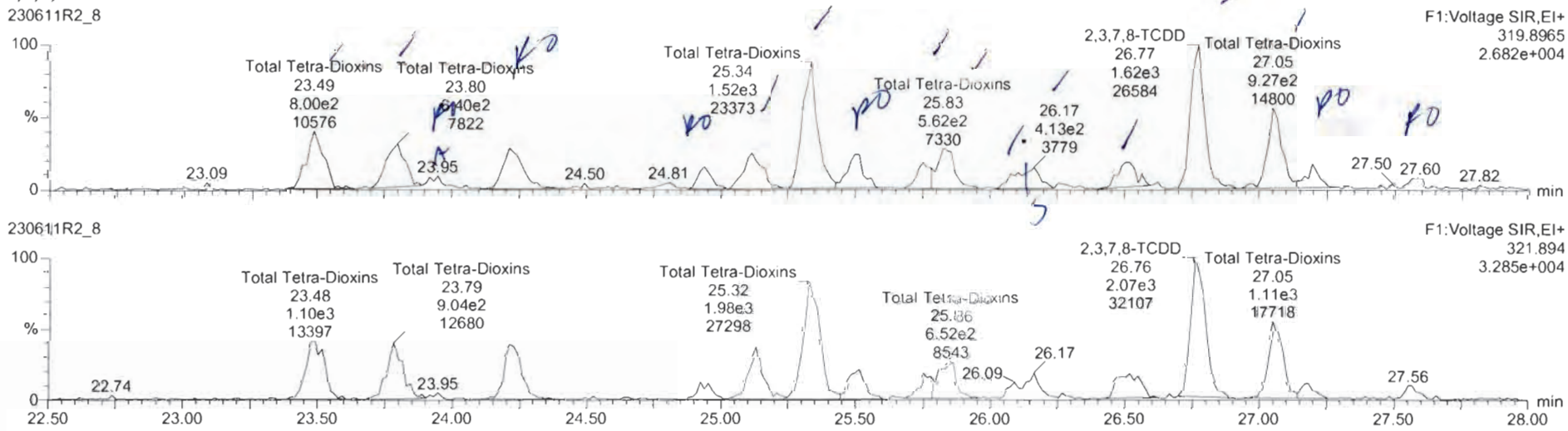
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.90	2.368e6	2.409e6	1.553e5	1.589e5	0.98	NO	3.142e5	621.24	621.24	1.59
2	Total Hepta-Furans	37.50	4.696e6	4.805e6	2.725e5	2.773e5	0.98	NO	5.498e5	1268.5	1268.5	1.90
3	1,2,3,4,7,8,9-HpCDF	38.81	6.506e4	6.946e4	4.497e3	4.668e3	0.96	NO	9.165e3	24.152	24.152	2.23

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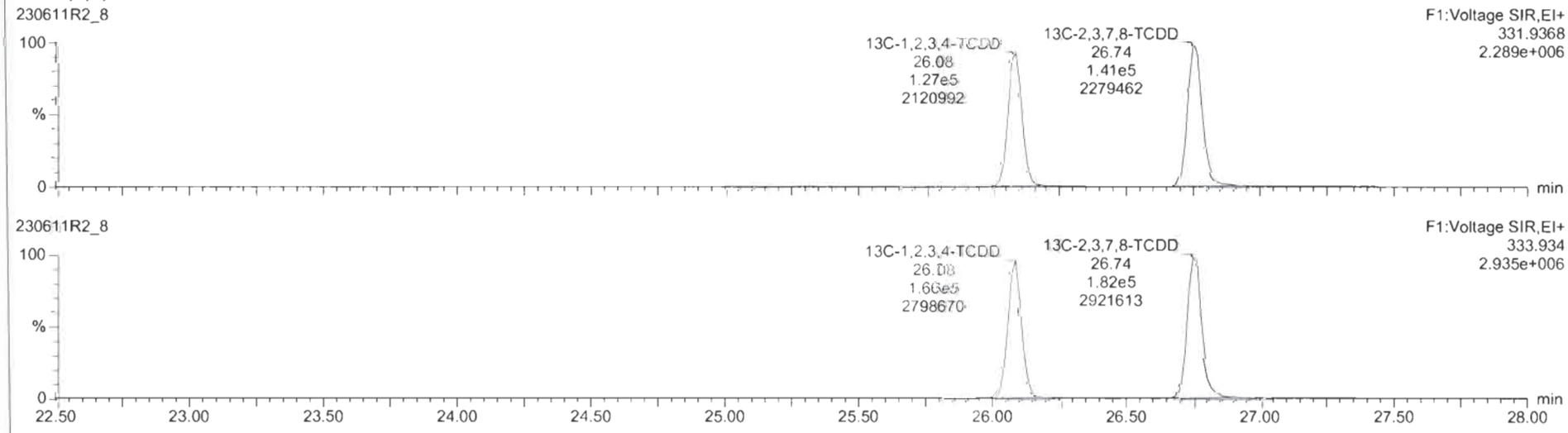
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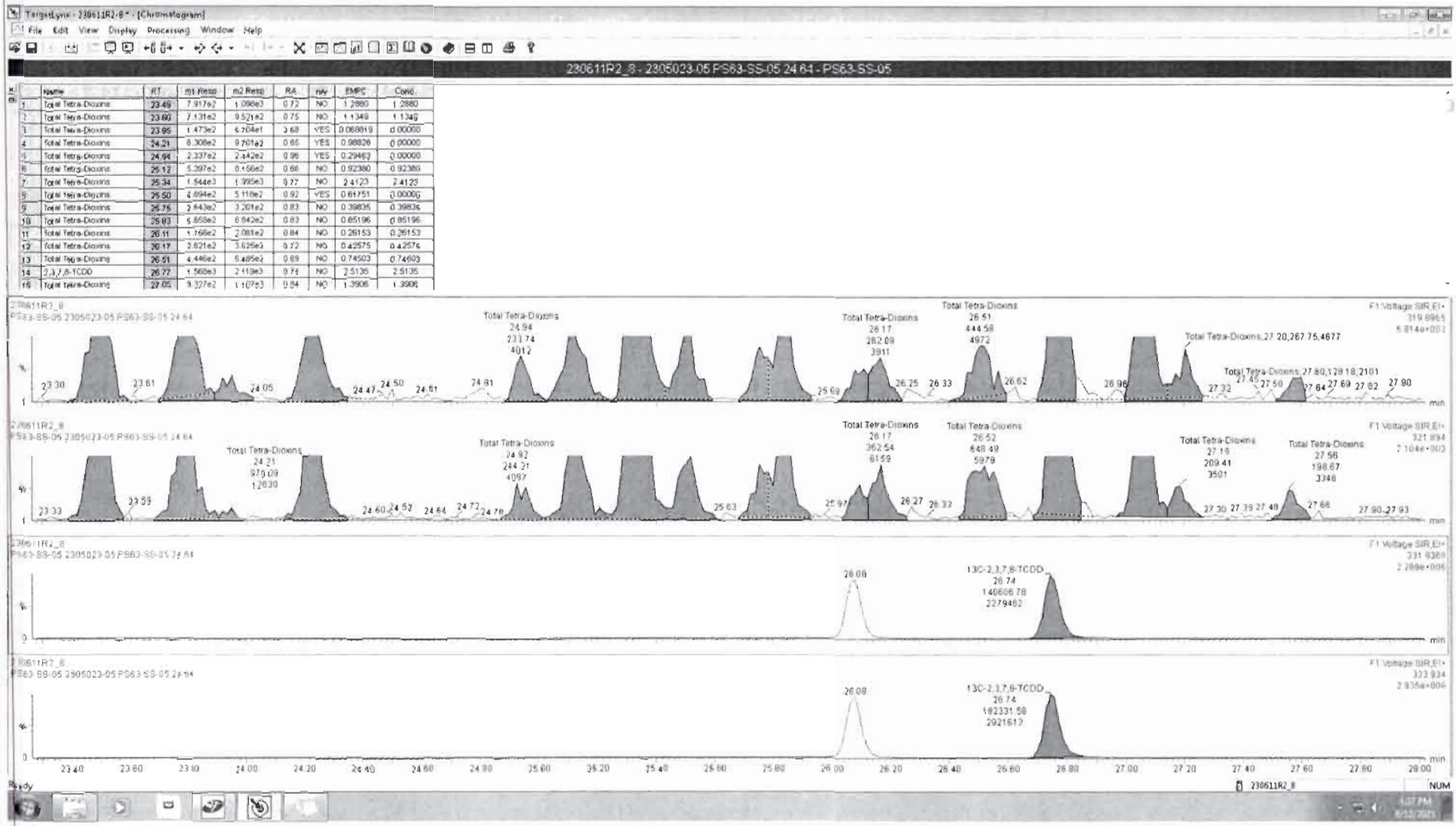
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2,3,7,8-TCDD



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





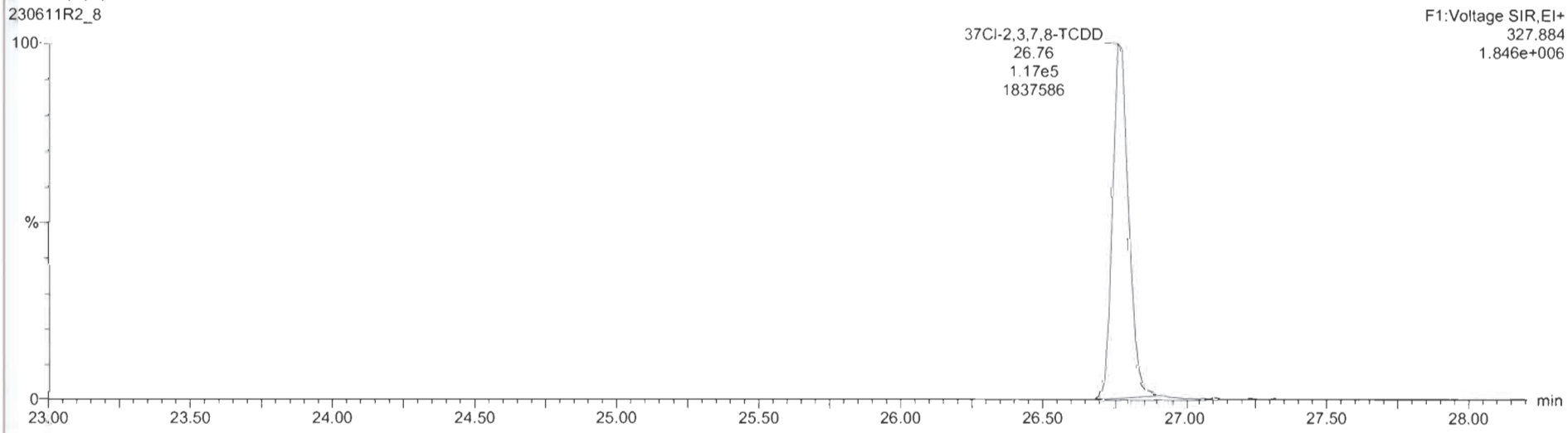
	Name	RT	m1 Resp	m2 Resp	RA	nAv	EMPC	Conc
1	Total Tetra-Dioxins	23.49	7.917e2	1.098e3	0.72	NO	1.2880	1.2880
2	Total Tetra-Dioxins	23.60	7.131e2	9.521e2	0.75	NO	1.1349	1.1349
3	Total Tetra-Dioxins	23.95	1.473e2	6.704e1	3.68	YES	0.068819	0.00000
4	Total Tetra-Dioxins	24.21	8.308e2	9.701e2	0.86	YES	0.98826	0.00000
5	Total Tetra-Dioxins	24.96	2.337e2	2.442e2	0.96	YES	0.29463	0.00000
6	Total Tetra-Dioxins	25.12	5.397e2	8.156e2	0.66	NO	0.92380	0.92380
7	Total Tetra-Dioxins	25.34	1.544e3	1.995e3	0.77	NO	2.4123	2.4123
8	Total Tetra-Dioxins	25.50	4.894e2	5.118e2	0.92	YES	0.61751	0.00000
9	Total Tetra-Dioxins	25.75	2.843e2	3.201e2	0.83	NO	0.39835	0.39836
10	Total Tetra-Dioxins	25.83	5.858e2	8.842e2	0.63	NO	0.85196	0.85196
11	Total Tetra-Dioxins	26.11	1.766e2	2.081e2	0.84	NO	0.26153	0.26153
12	Total Tetra-Dioxins	26.17	2.621e2	3.625e3	0.72	NO	0.42575	0.42576
13	Total Tetra-Dioxins	26.51	4.446e2	6.485e2	0.69	NO	0.74503	0.74503
14	2,3,7,8-TCDD	26.77	1.568e3	2.119e3	0.74	NO	2.5135	2.5135
15	Total Tetra-Dioxins	27.05	9.327e2	1.107e3	0.84	NO	1.3906	1.3906

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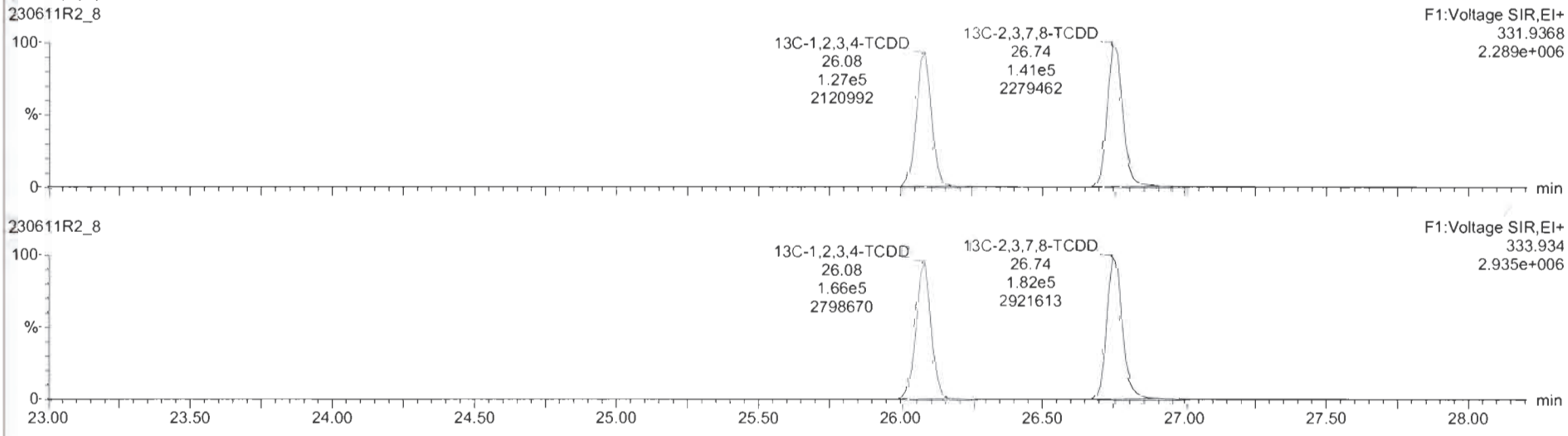
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Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05

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



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



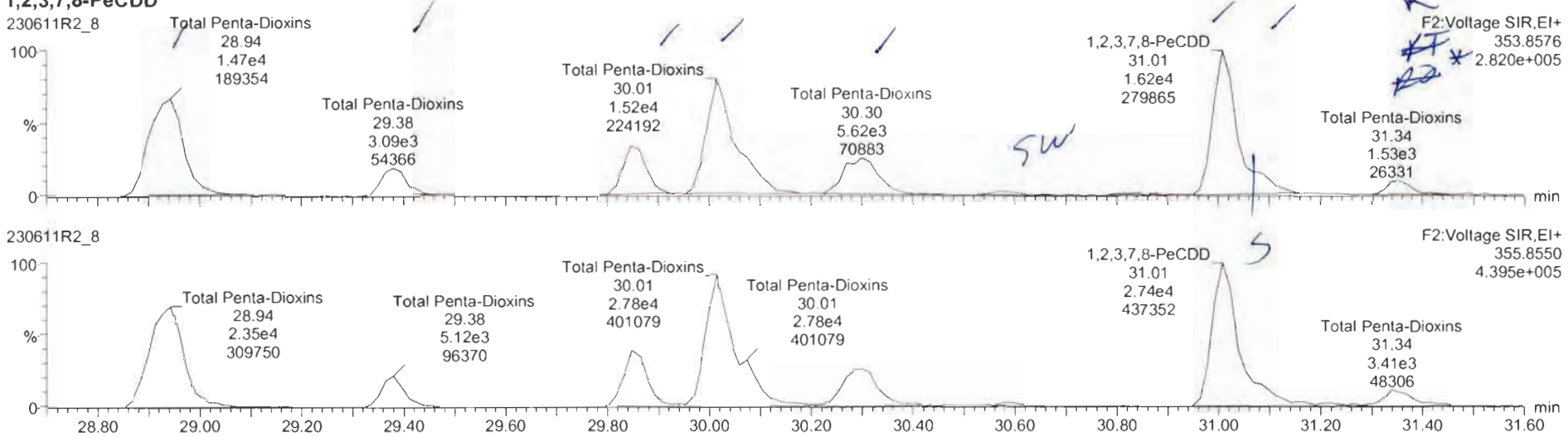
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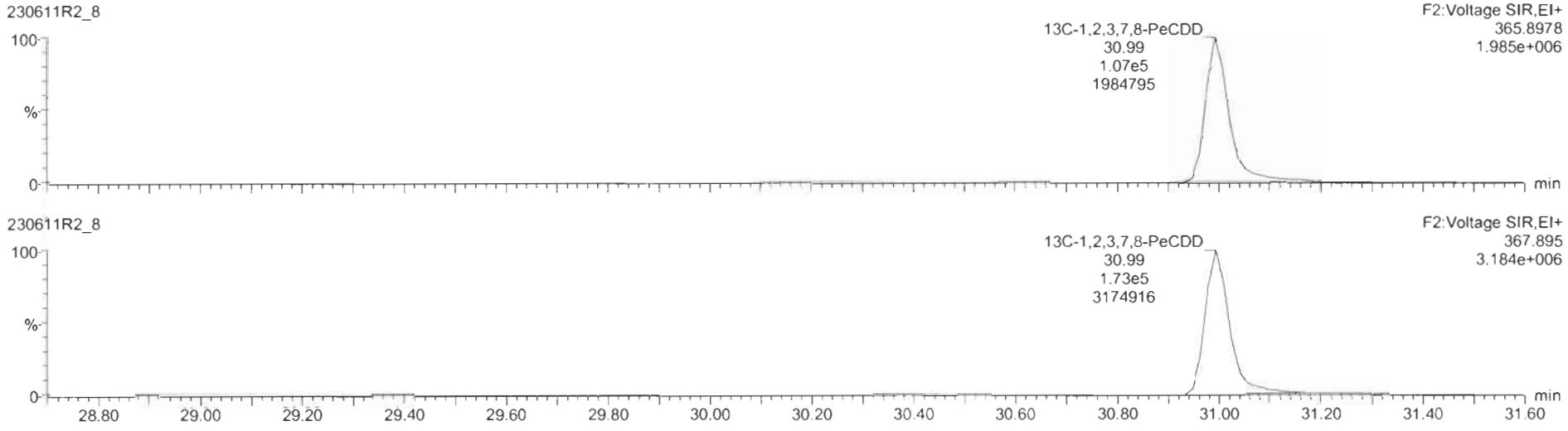
*DF 06/21/23

Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05

1,2,3,7,8-PeCDD



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



TargetLynx - 230611R2-8 * - [Chromatogram]

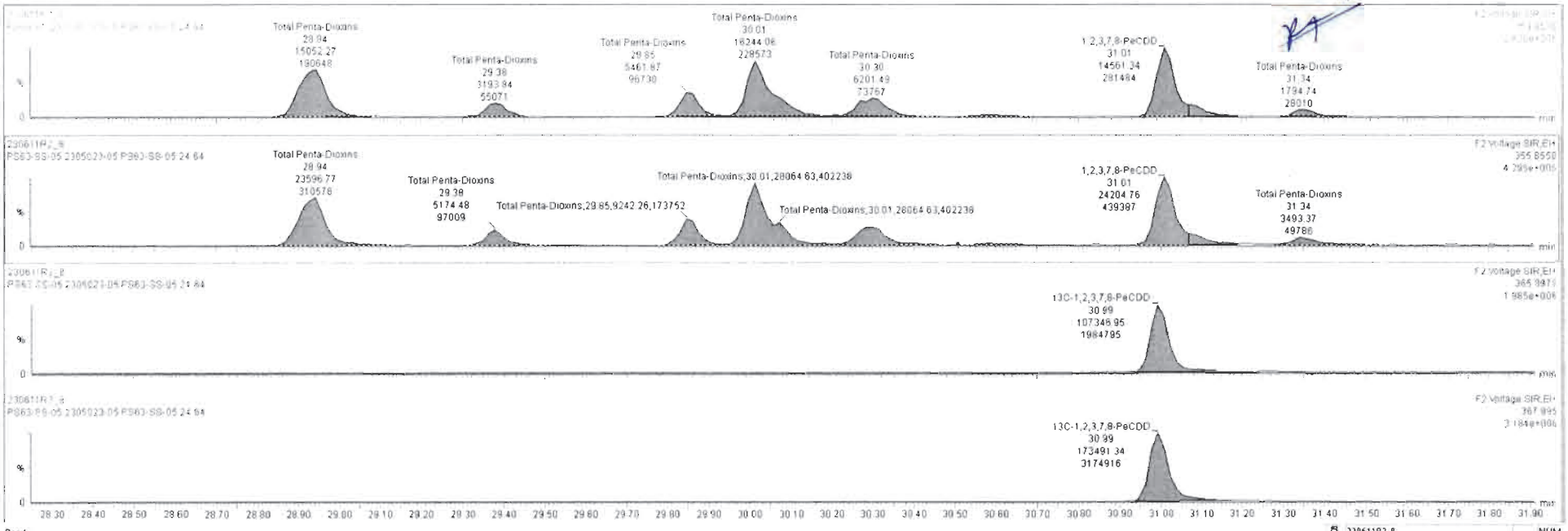
File Edit View Display Processing Window Help

*DF006 12/1/23

230611R2_8 - 2305023-05 PS63-SS-05 24 64 - PS63-SS-05

	Name	RT	m1 Resp	m2 Resp	RA	ruy	EMPC	Conc.
1	Total Penta-Dioxins	28.94	1.505e4	2.360e4	0.64	NO	36.863	36.863
2	Total Penta-Dioxins	29.38	3.194e3	5.174e3	0.62	NO	7.9816	7.9816
3	Total Penta-Dioxins	29.85	5.462e3	9.242e3	0.59	NO	14.025	14.025
4	Total Penta-Dioxins	30.01	1.624e4	2.806e4	0.58	NO	42.261	42.261
5	Total Penta-Dioxins	30.30	6.201e3	9.806e3	0.63	NO	15.267	15.267
6	Total Penta-Dioxins	30.57	5.713e2	7.270e2	0.79	YES	1.1303	0.00000
7	1,2,3,7,8-PeCDD	31.01	1.456e4	2.420e4	0.60	NO	36.975	36.975
8	Total Penta-Dioxins	31.07	2.208e3	3.732e3	0.59	NO	5.6653	5.6653
9	Total Penta-Dioxins	31.34	1.795e3	3.493e3	0.51	YES	4.4289	0.00000

KD



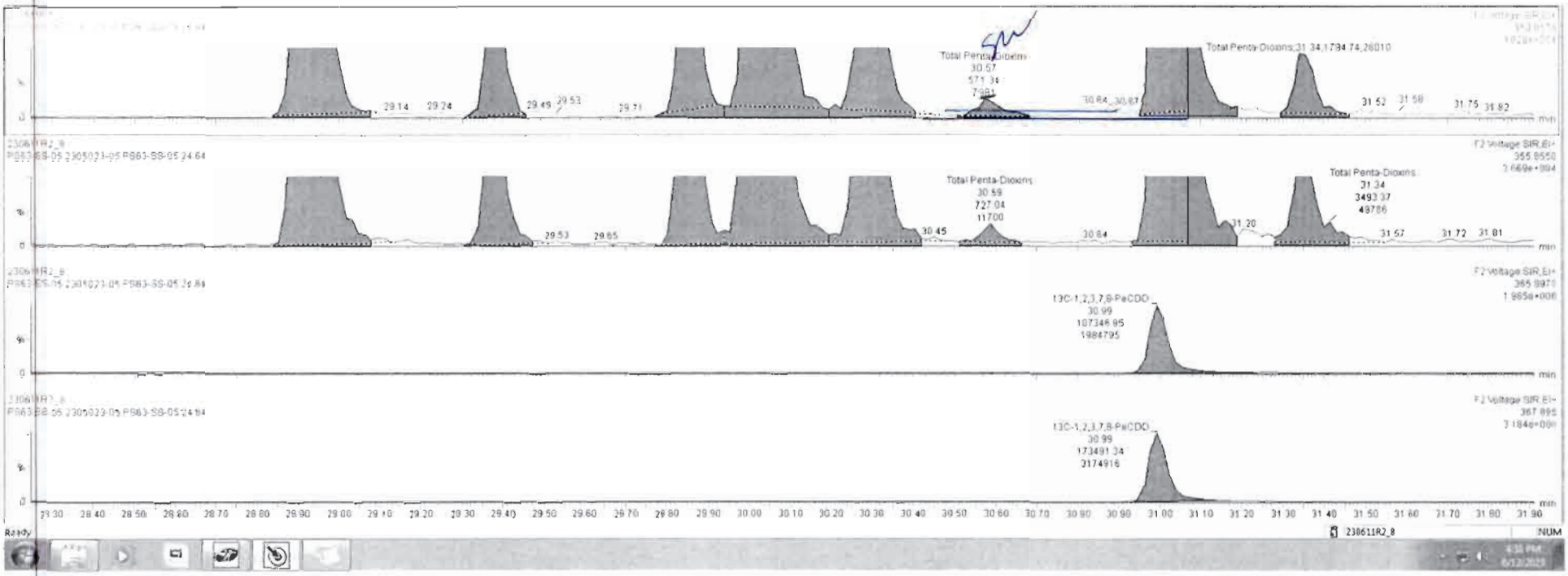
Ready 230611R2_8 NUM

TargetLynx - 230611R2-8 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_8 - 2305023-05 PS63-SS-05 24.64 - PS63-SS-05

	Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc
1	Total Penta-Dioxins	29.94	1.505e4	2.360e4	0.64	NO	36.863	36.863
2	Total Penta-Dioxins	29.38	3.194e3	5.174e3	0.62	NO	7.9816	7.9816
3	Total Penta-Dioxins	29.85	5.462e3	9.242e3	0.59	NO	14.025	14.025
4	Total Penta-Dioxins	30.01	1.624e4	2.806e4	0.58	NO	42.261	42.261
5	Total Penta-Dioxins	30.30	6.201e3	9.806e3	0.63	NO	15.267	15.267
6	Total Penta-Dioxins	30.57	5.713e2	7.270e2	0.79	YES	1.1303	0.00000
7	1,2,3,7,8-PeCDD	31.01	1.456e4	2.420e4	0.60	NO	36.975	36.975
8	Total Penta-Dioxins	31.07	2.208e3	3.732e3	0.59	NO	5.6653	5.6653
9	Total Penta-Dioxins	31.34	1.795e3	3.483e3	0.51	YES	4.4289	0.00000



Ready

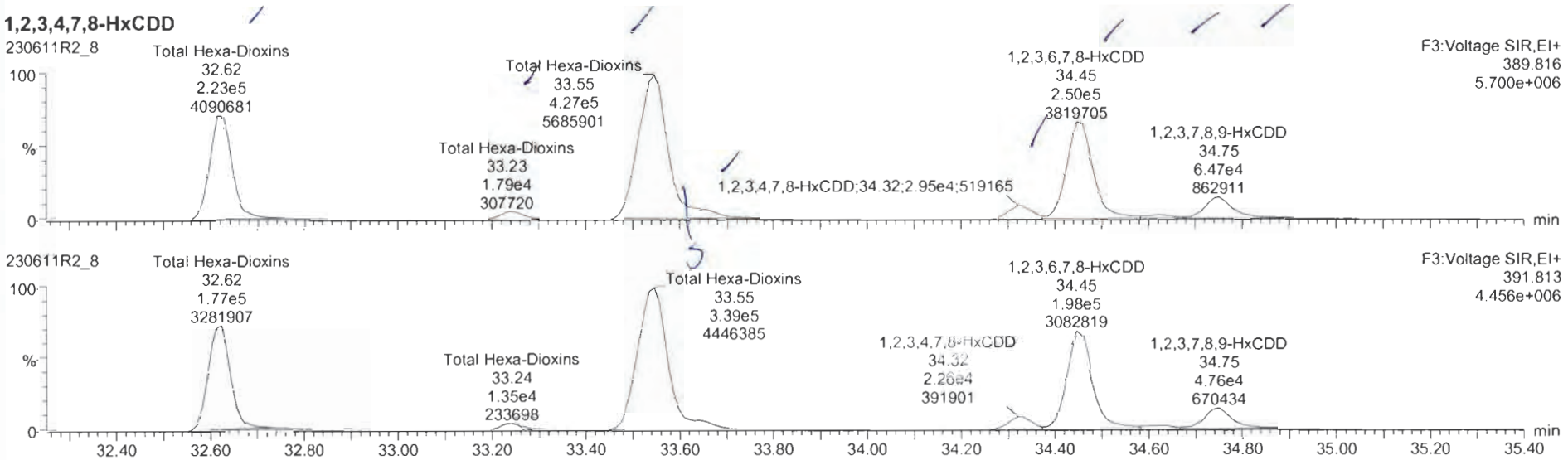
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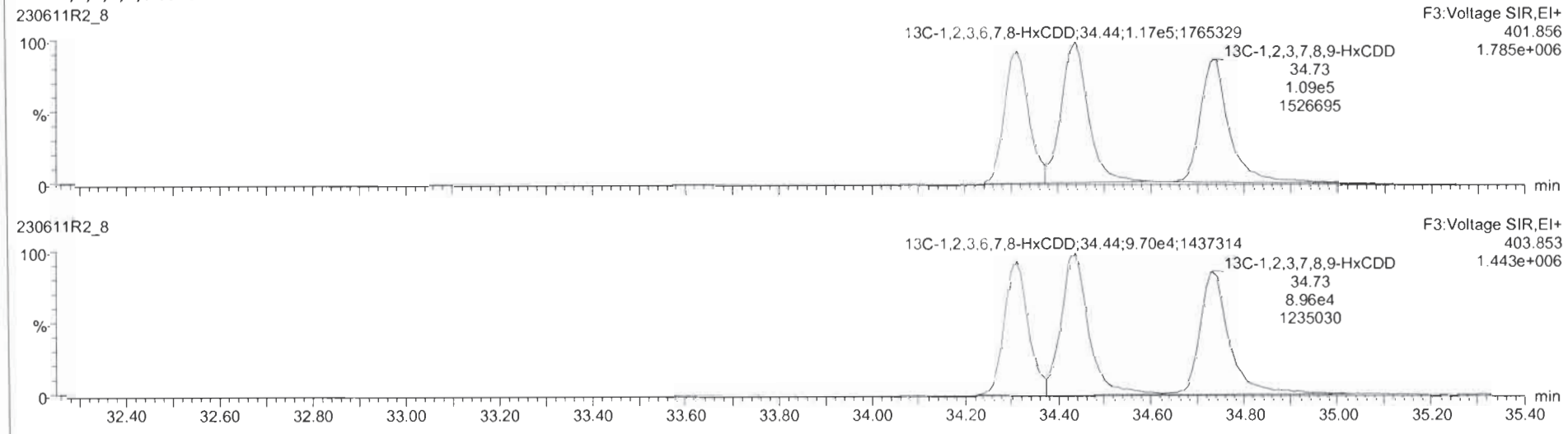
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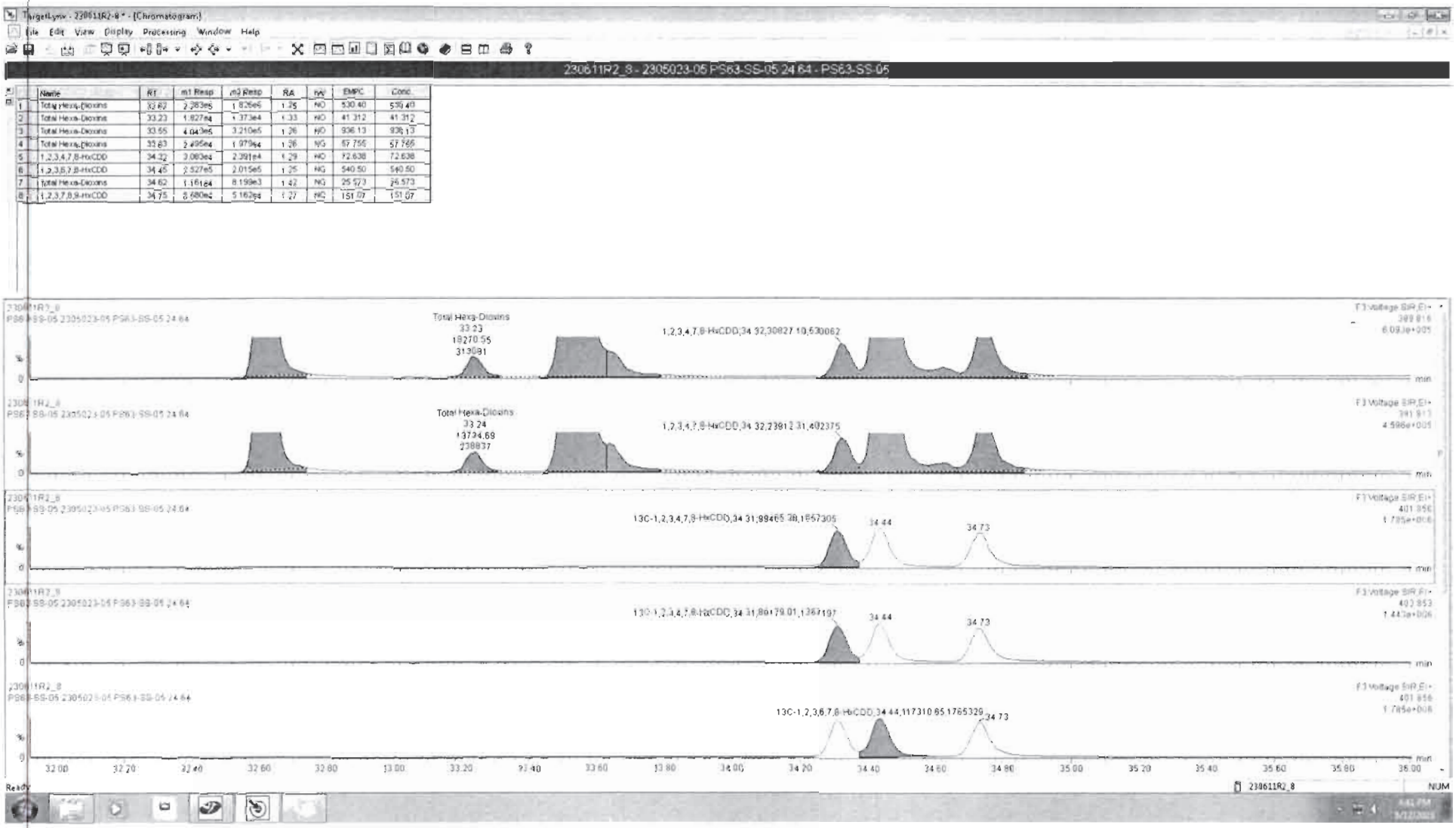
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1,2,3,4,7,8-HxCDD



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





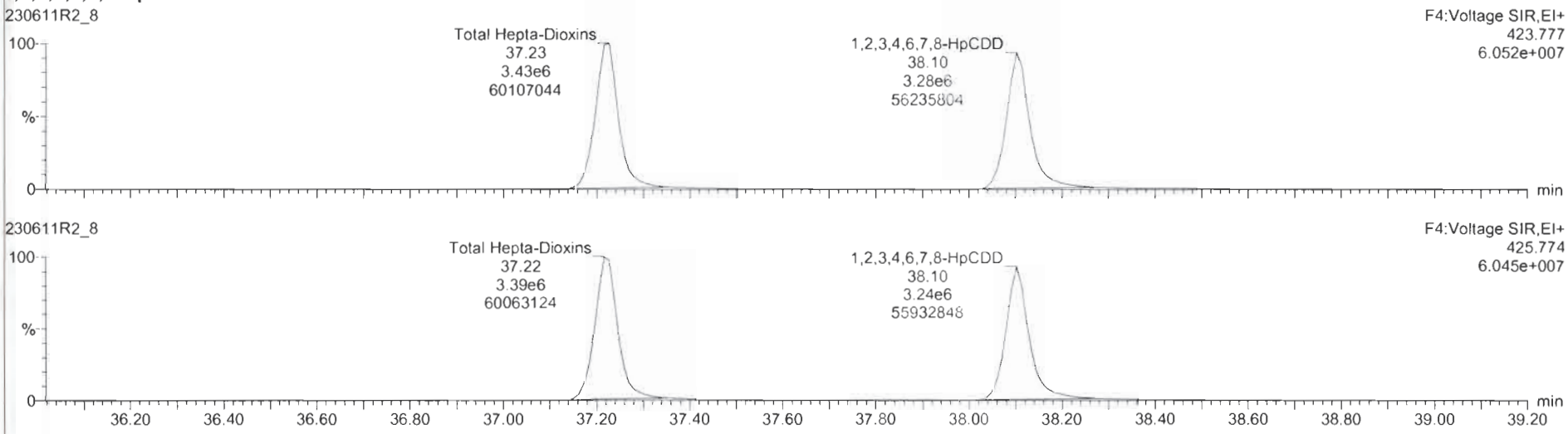
	Name	RT	m1 Resp	m2 Resp	RA	RW	EMPC	Conc.
1	Total Hexa-Dioxins	33.62	2.283e5	1.826e5	1.25	NO	530.40	530.40
2	Total Hexa-Dioxins	33.23	1.827e4	1.373e4	1.33	NO	41.312	41.312
3	Total Hexa-Dioxins	33.55	4.043e5	3.210e5	1.26	NO	936.13	936.13
4	Total Hexa-Dioxins	33.83	2.495e4	1.979e4	1.26	NO	57.765	57.765
5	1,2,3,4,7,8-HxCDD	34.32	3.083e4	2.391e4	1.29	NO	72.638	72.638
6	1,2,3,6,7,8-HxCDD	34.45	2.527e5	2.015e5	1.25	NO	540.50	540.50
7	Total Hexa-Dioxins	34.62	1.161e4	8.199e3	1.42	NO	26.573	26.573
8	1,2,3,7,8,9-HxCDD	34.75	5.680e2	5.162e4	1.27	NO	151.07	151.07

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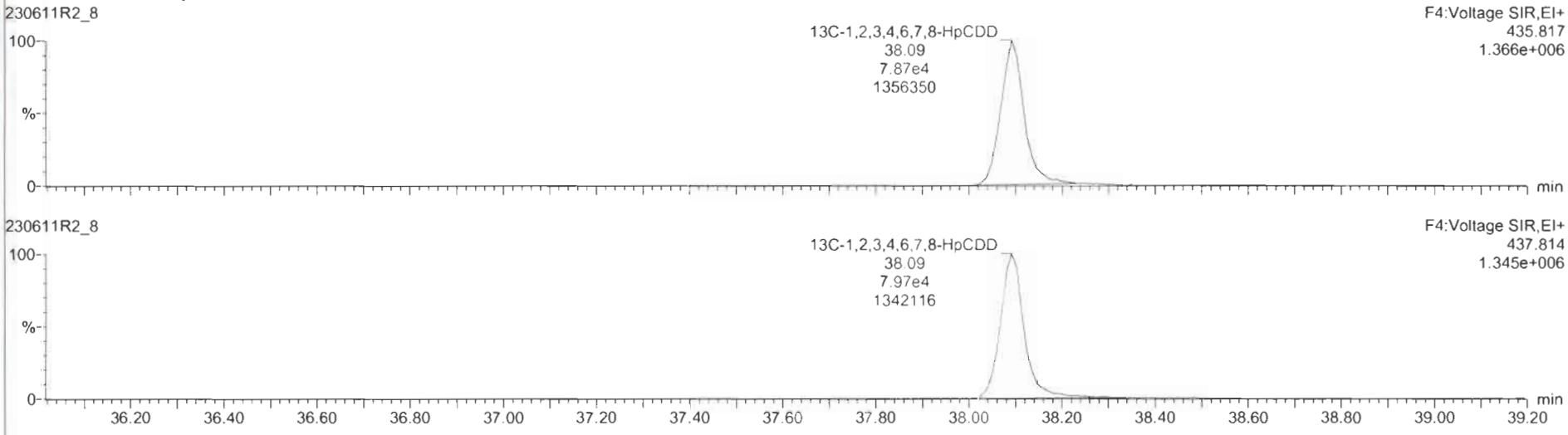
Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05

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



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

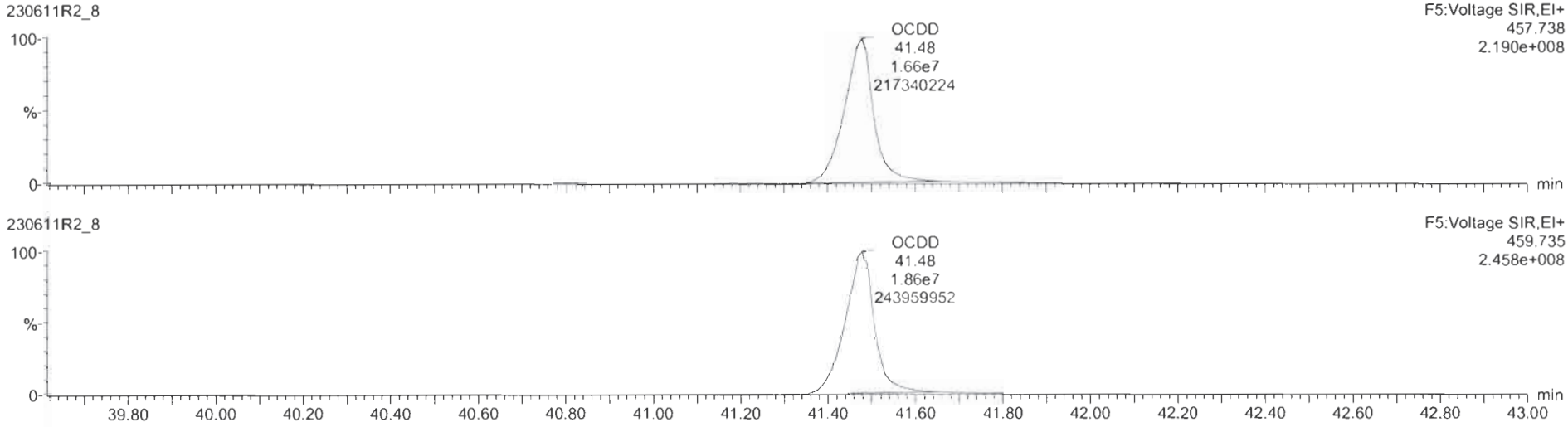


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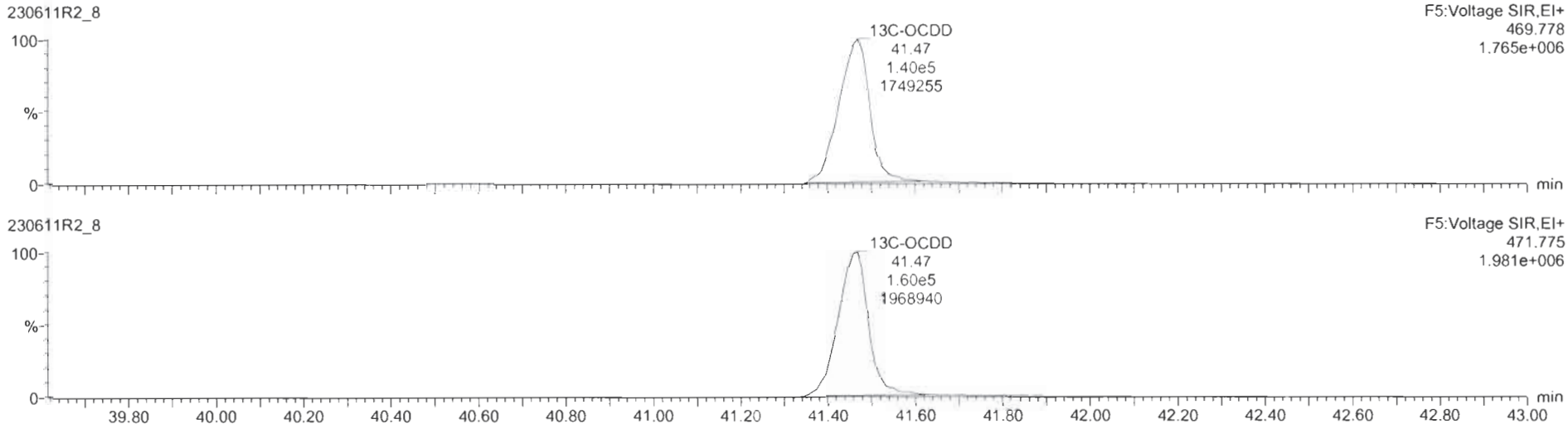
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Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05

OCDD



13C-OCDD

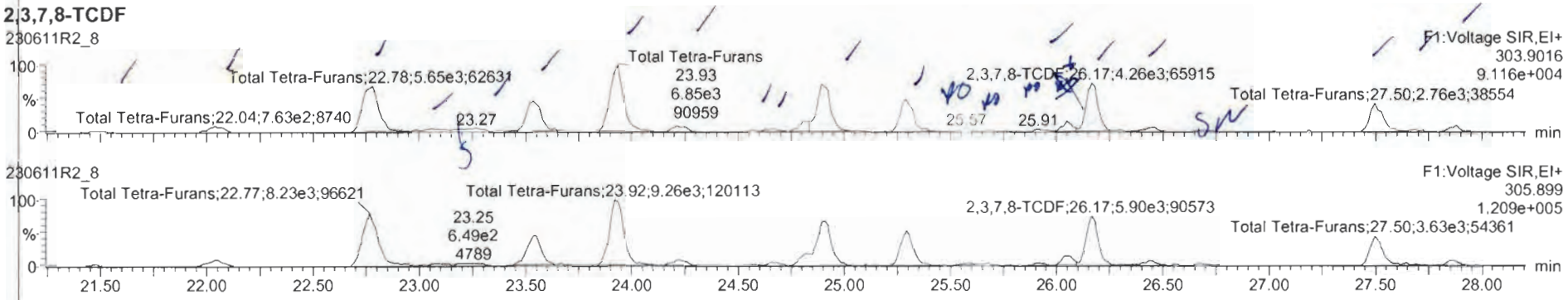


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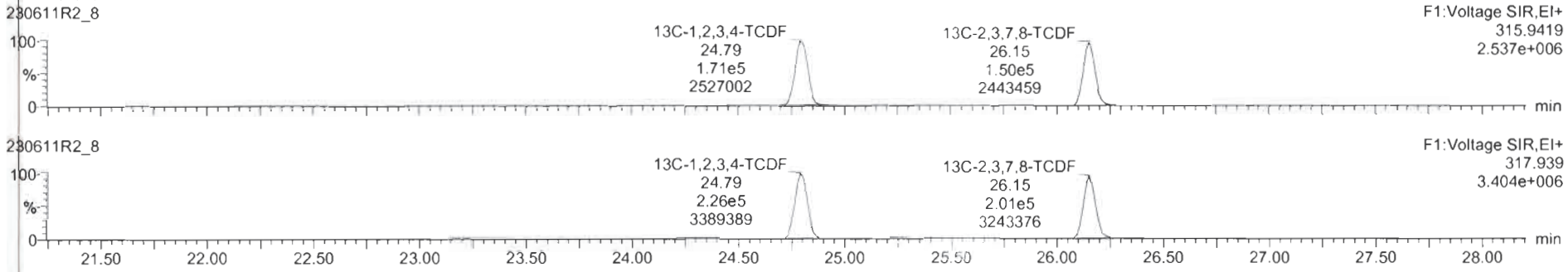
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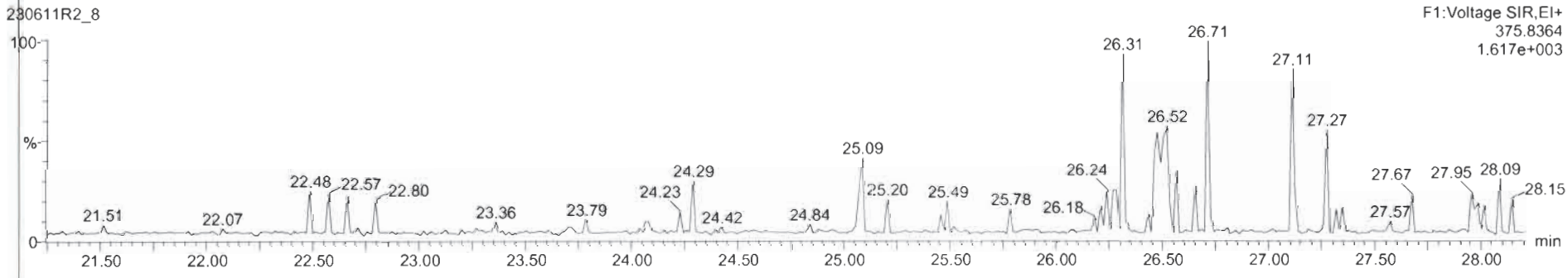
2,3,7,8-TCDF

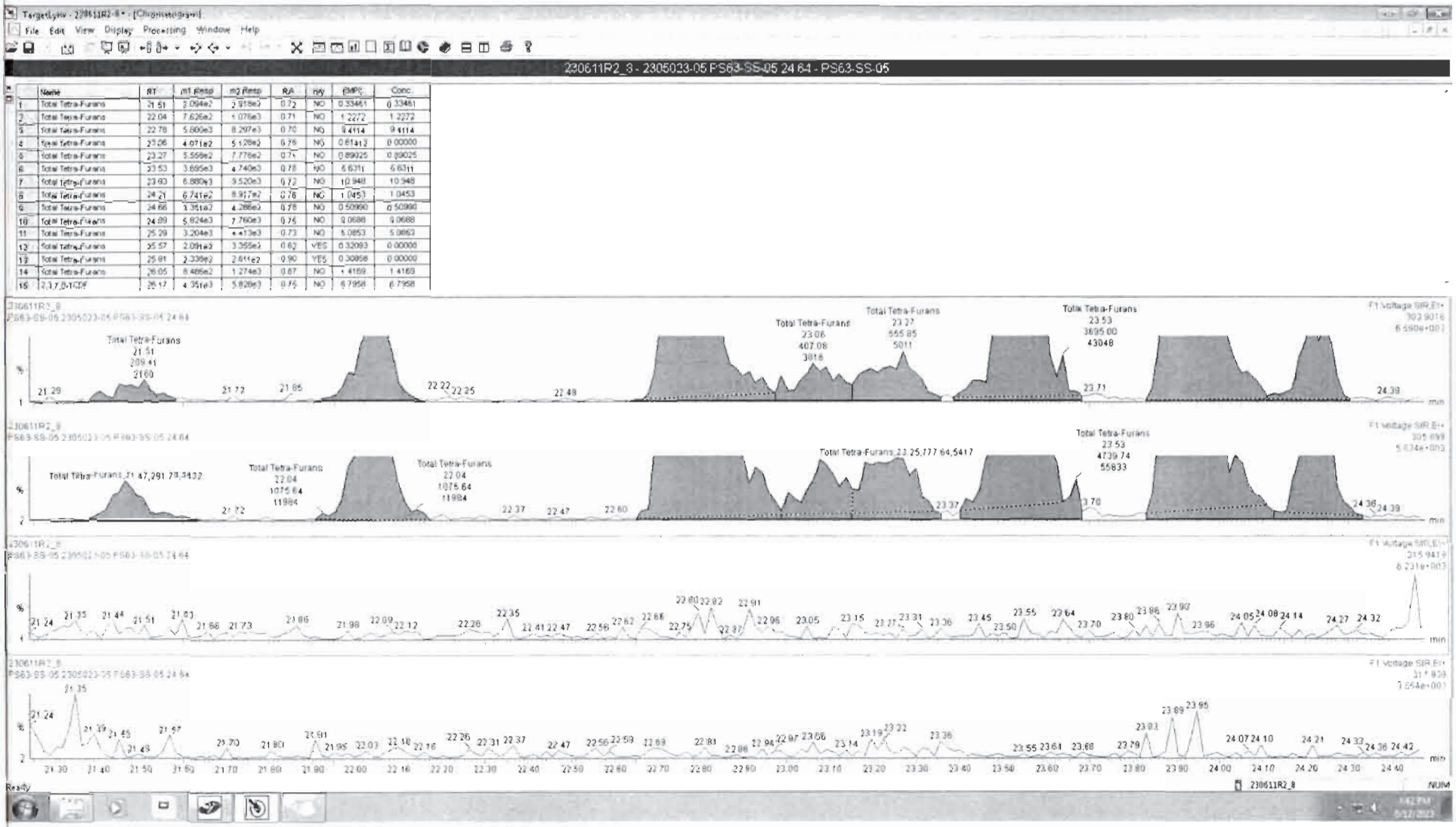


13C-2,3,7,8-TCDF

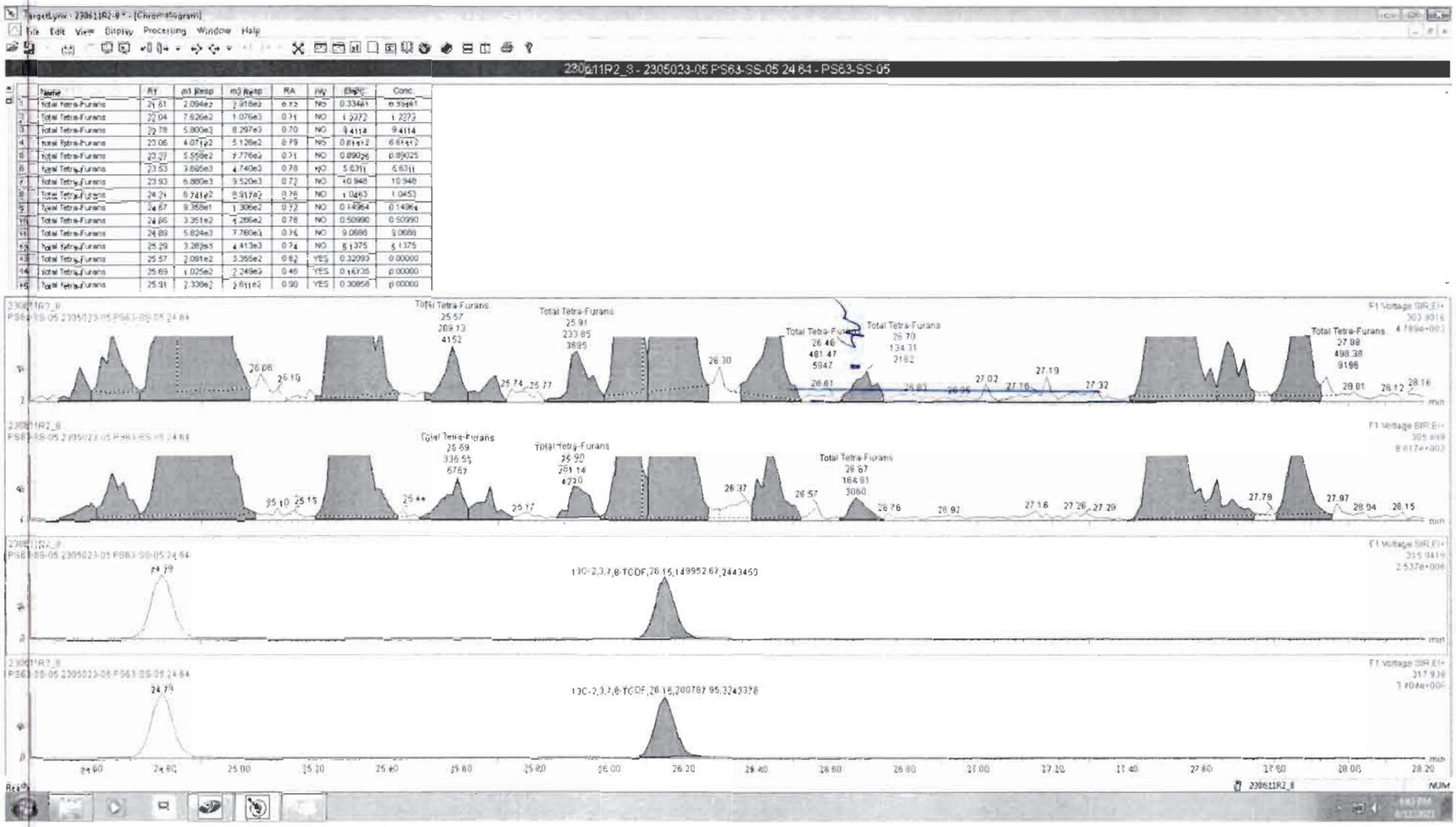


DPE1





	Name	RT	m1 Resp	m2 Resp	RA	nty	EMPC	Conc.
1	Total Tetra-Furans	21.51	2.094e2	2.918e2	0.72	NO	0.33461	0.33461
2	Total Tetra-Furans	22.04	7.626e2	1.076e3	0.71	NO	1.2272	1.2272
3	Total Tetra-Furans	22.78	5.800e3	8.297e3	0.70	NO	9.4114	9.4114
4	Total Tetra-Furans	23.06	4.071e2	5.129e2	0.79	NO	0.61412	0.00000
5	Total Tetra-Furans	23.27	5.556e2	7.776e2	0.71	NO	0.89025	0.89025
6	Total Tetra-Furans	23.53	3.895e3	4.740e3	0.78	NO	6.6311	6.6311
7	Total Tetra-Furans	23.93	6.880e3	9.520e3	0.72	NO	10.948	10.948
8	Total Tetra-Furans	24.21	6.741e2	8.917e2	0.76	NO	1.0453	1.0453
9	Total Tetra-Furans	24.66	3.351e2	4.286e2	0.78	NO	0.50990	0.50990
10	Total Tetra-Furans	24.89	5.824e3	7.760e3	0.75	NO	9.0688	9.0688
11	Total Tetra-Furans	25.29	3.204e3	4.413e3	0.73	NO	5.0853	5.0853
12	Total Tetra-Furans	25.57	2.09ie2	3.365e2	0.62	YES	0.32093	0.00000
13	Total Tetra-Furans	25.91	2.338e2	2.611e2	0.90	YES	0.30858	0.00000
14	Total Tetra-Furans	26.05	8.466e2	1.274e3	0.67	NO	1.4169	1.4169
15	2,3,7,8-TCDF	26.17	4.351e3	5.826e3	0.75	NO	6.7958	6.7958


TargetLynx - 230611R2-9 * - [Chromatogram]
File Edit View Display Processing Window Help
230611R2_8 - 2305023-05 PS63-SS-05 24 64 - PS63-SS-05
Total Tetra-Furans 25.57 209.13 4152
Total Tetra-Furans 25.91 233.85 3695
Total Tetra-Furans 26.46 481.47 5947
Total Tetra-Furans 26.70 134.31 2182
Total Tetra-Furans 27.88 498.38 9196
Total Tetra-Furans 25.69 336.55 6767
Total Tetra-Furans 25.90 261.14 4220
Total Tetra-Furans 26.67 184.81 3060
24.79
13C-2,3,7,8-TCDF,26.15,149952.67,2443450
13C-2,3,7,8-TCDF,26.15,200787.95,3243378

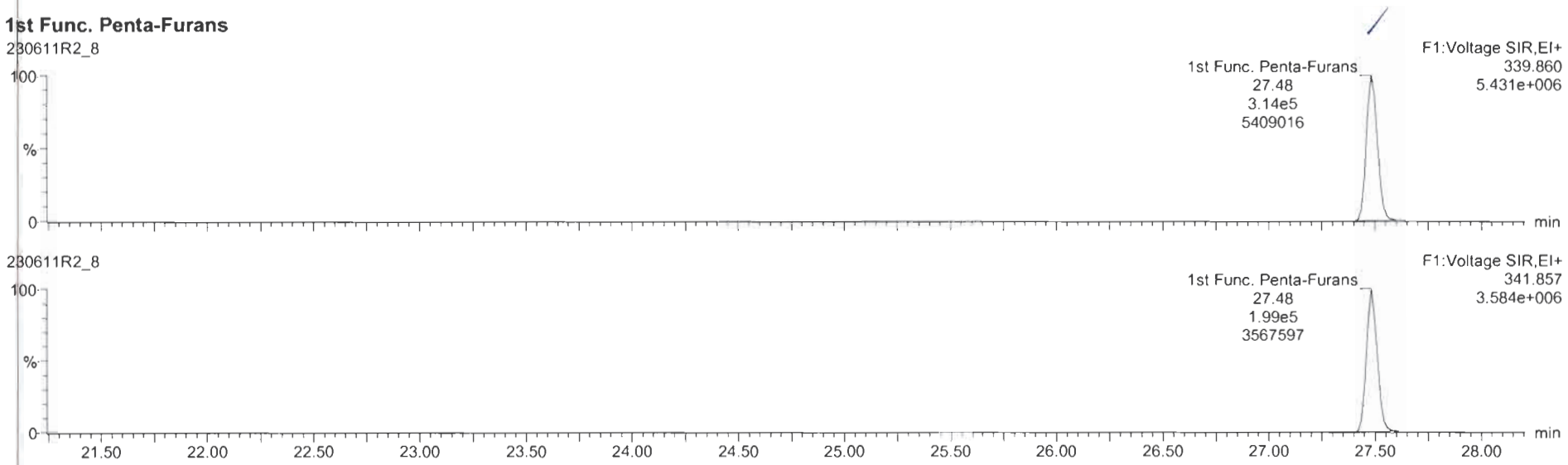
Enthalpy Analytical EDH VG-12

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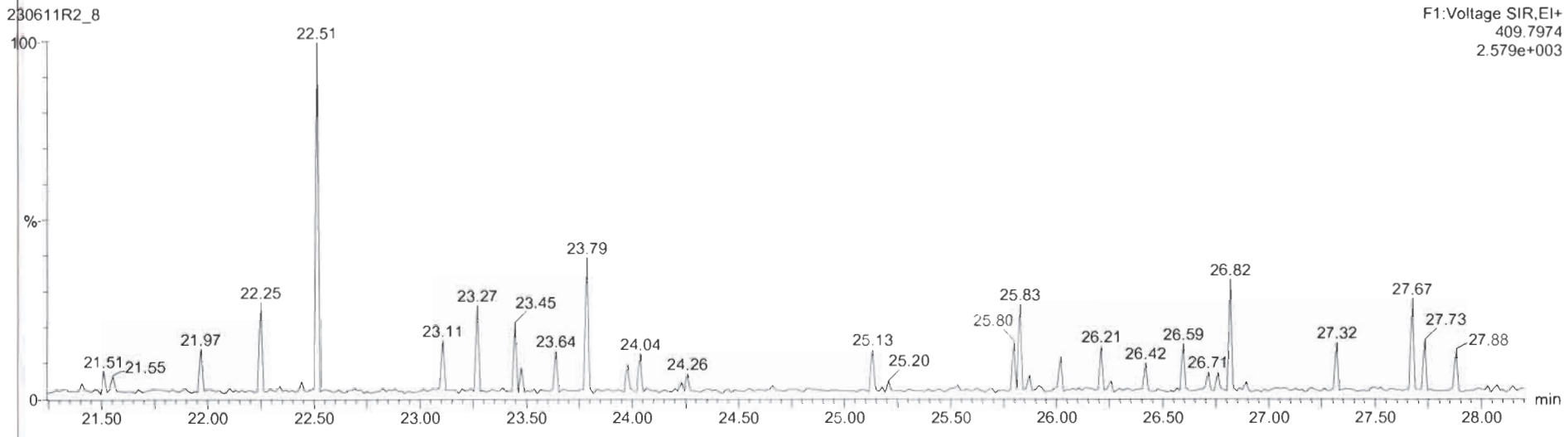
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Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05

1st Func. Penta-Furans



DPE6

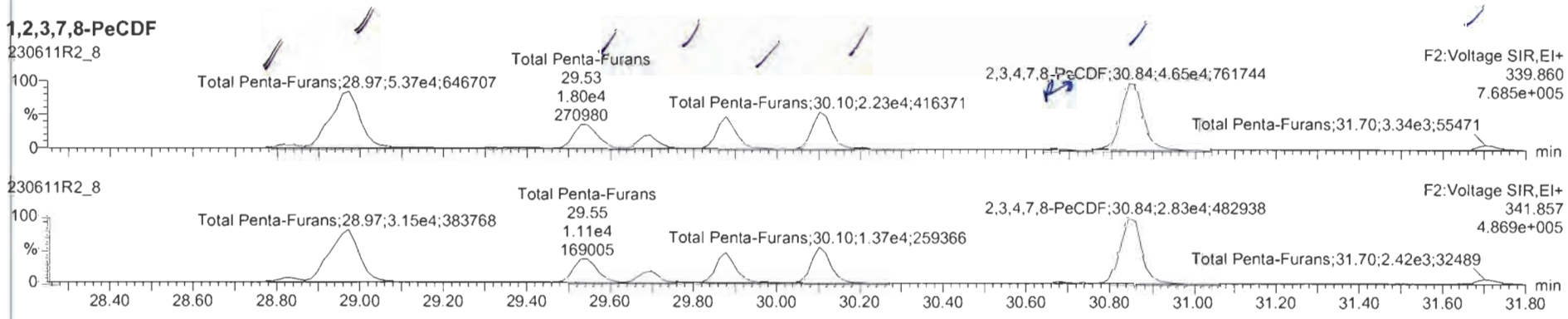


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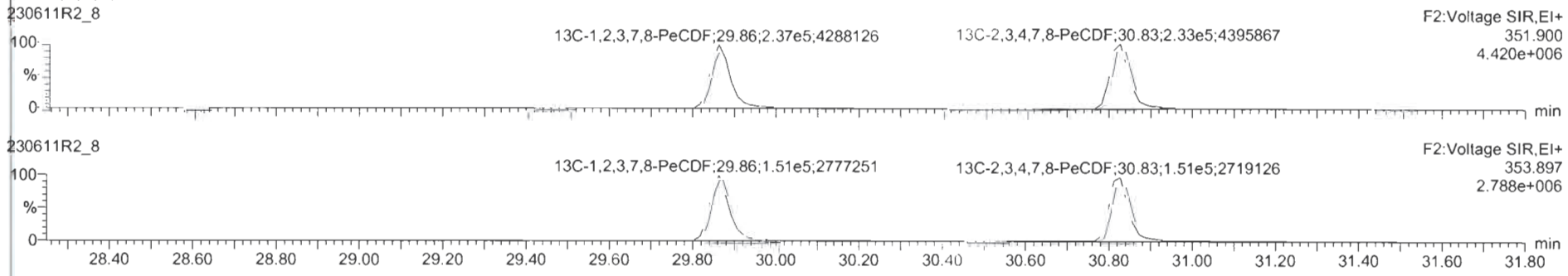
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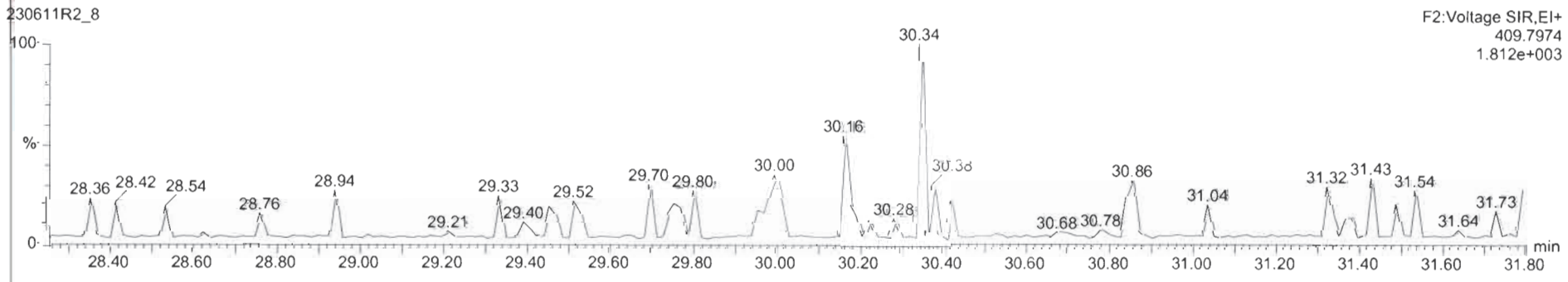
1,2,3,7,8-PeCDF



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



DPE2

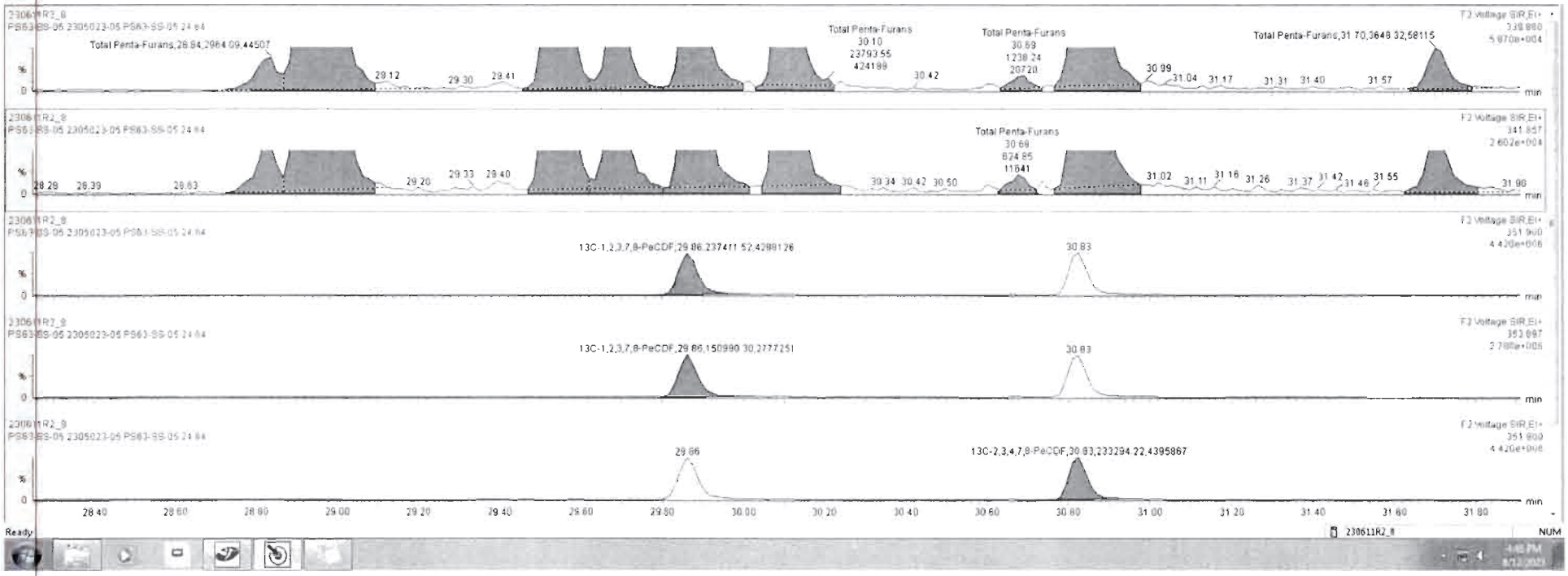


TargetLynx - 230611R2-8 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_8 - 2305023-05 PS63-SS-05 24 64 - PS63-SS-05

	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.84	2.964e3	1.925e3	1.54	NO	3.3333	3.3333
2	Total Penta-Furans	28.97	5.332e4	3.199e4	1.67	NO	58.119	58.119
3	Total Penta-Furans	29.53	1.843e4	1.150e4	1.60	NO	20.390	20.390
4	Total Penta-Furans	29.70	9.194e3	5.756e3	1.60	NO	10.184	10.184
5	1,2,3,7,8-PeCDF	29.86	2.026e4	1.251e4	1.62	NO	22.218	22.218
6	Total Penta-Furans	30.10	2.379e4	1.462e4	1.63	NO	26.170	26.170
7	Total Penta-Furans	30.69	1.238e3	6.249e2	1.98	YES	1.0855	0.00000
8	2,3,4,7,8-PeCDF	30.84	4.799e4	2.917e4	1.65	NO	47.962	47.962
9	Total Penta-Furans	31.70	3.648e3	2.456e3	1.49	NO	4.1585	4.1585



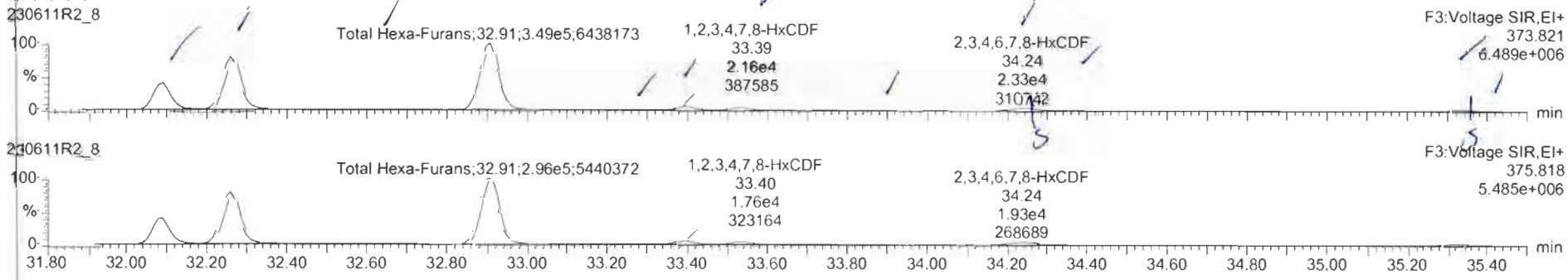
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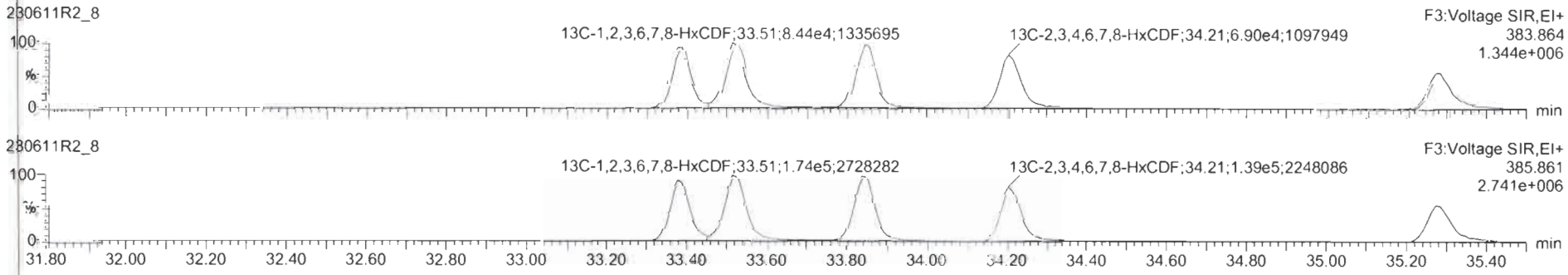
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Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05

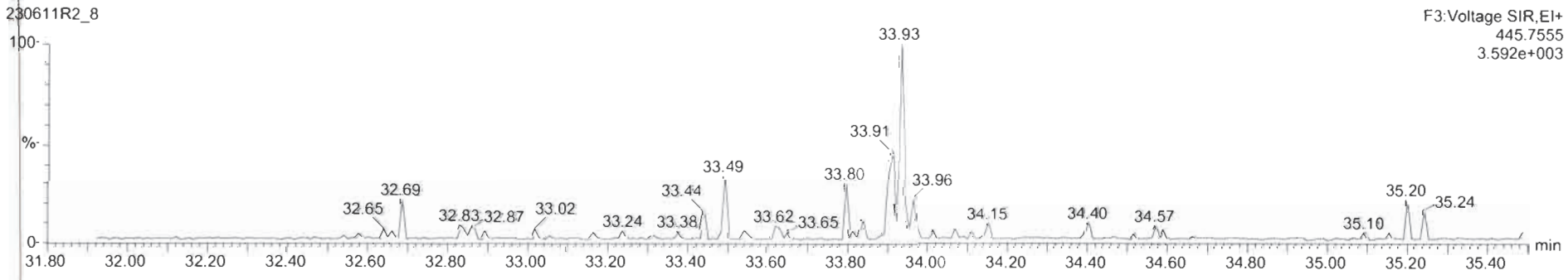
1,2,3,4,7,8-HxCDF

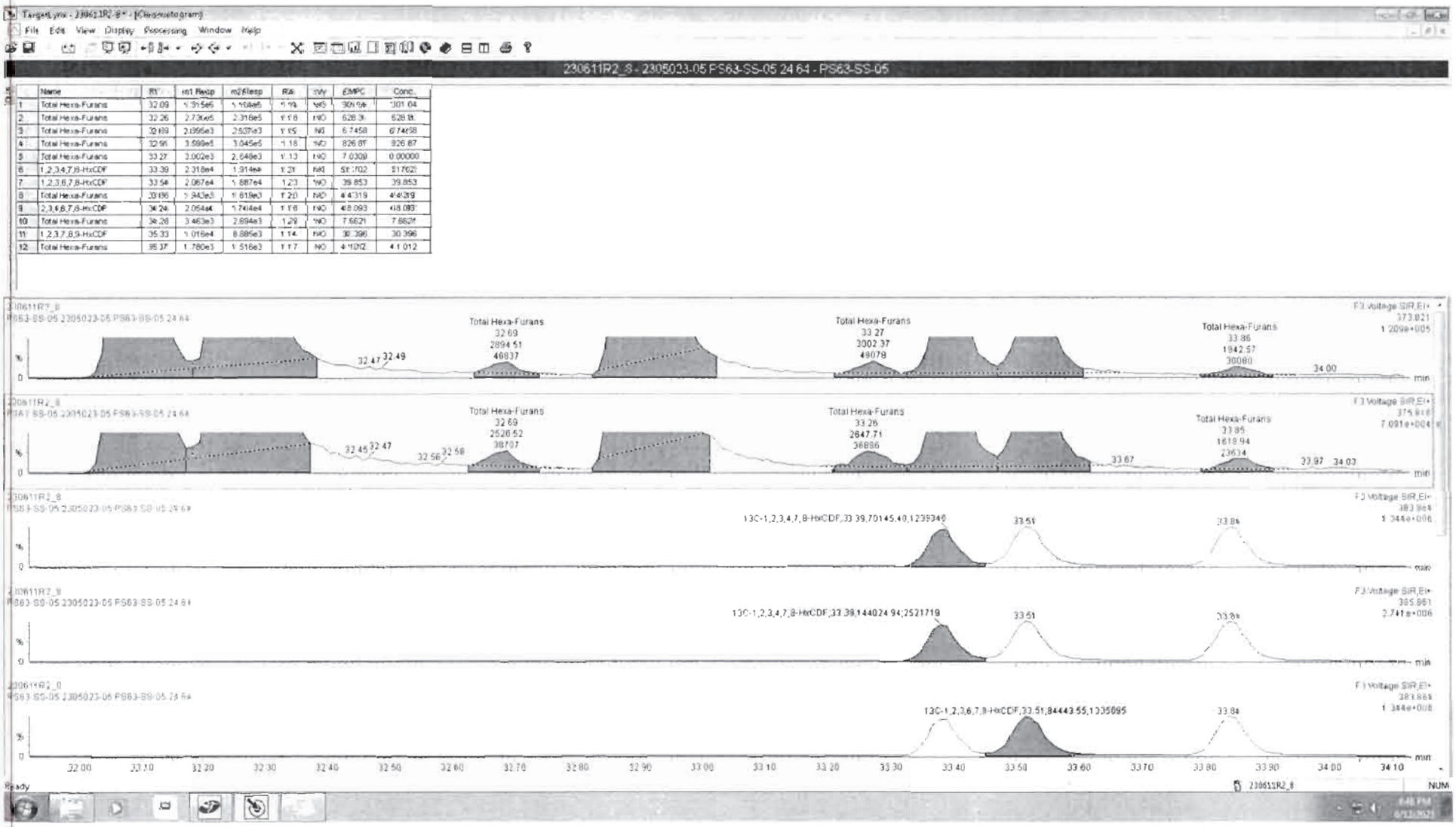


13C-1,2,3,4,7,8-HxCDF



DPE3





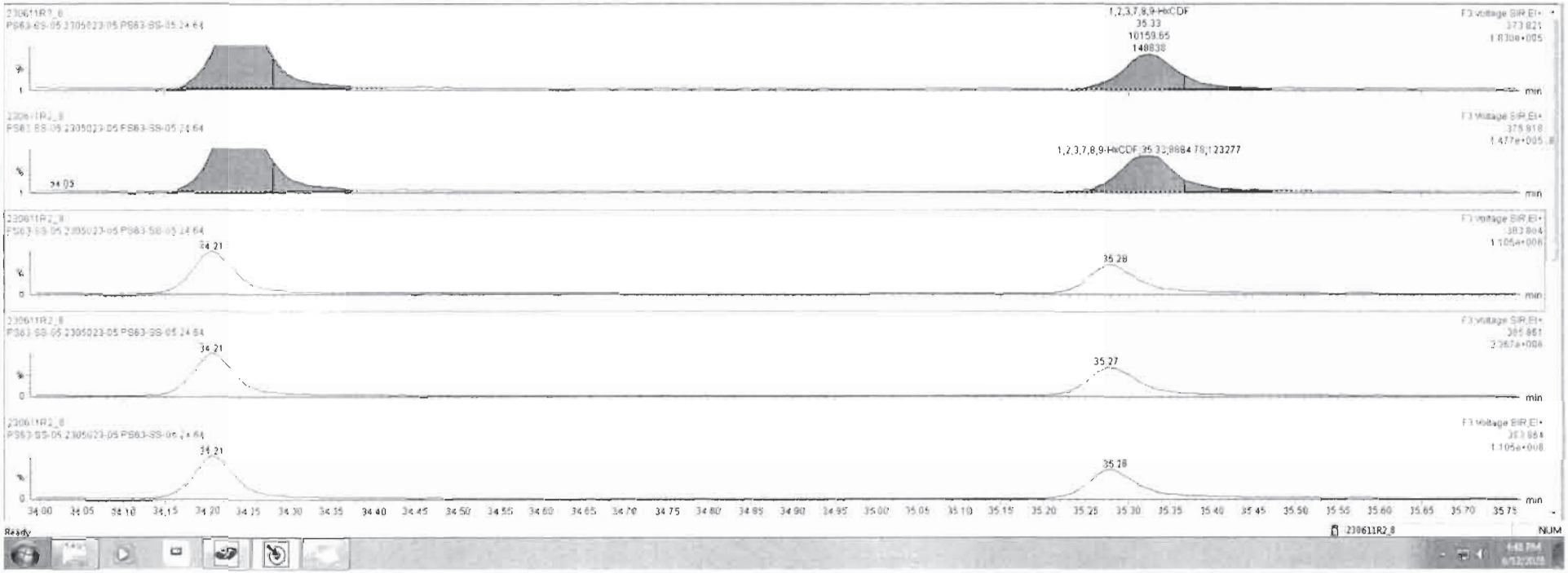
	Name	RT	m1 Resp	m2 Resp	RA	IsMv	EMPC	Conc.
1	Total Hexa-Furans	32.69	1.391e5	1.108e5	1.19	NO	301.06	301.04
2	Total Hexa-Furans	32.26	2.730e5	2.318e5	1.18	NO	628.39	628.38
3	Total Hexa-Furans	32.69	2.995e3	2.507e3	1.19	NO	6.7458	6.74658
4	Total Hexa-Furans	32.96	3.599e5	3.045e5	1.18	NO	826.87	826.87
5	Total Hexa-Furans	33.27	3.002e3	2.648e3	1.13	NO	7.0309	0.00000
6	1,2,3,4,7,8-HxCDF	33.39	2.318e4	1.914e4	1.21	NO	51.702	51.702
7	1,2,3,6,7,8-HxCDF	33.50	2.067e4	1.687e4	1.23	NO	39.853	39.853
8	Total Hexa-Furans	33.86	1.943e3	1.619e3	1.20	NO	4.4319	4.41319
9	2,3,4,6,7,8-HxCDF	34.24	2.054e4	1.741e4	1.18	NO	48.093	48.093
10	Total Hexa-Furans	33.26	3.463e3	2.894e3	1.29	NO	7.6621	7.6621
11	1,2,3,7,8,9-HxCDF	35.33	1.016e4	8.885e3	1.14	NO	30.396	30.396
12	Total Hexa-Furans	35.37	1.780e3	1.516e3	1.17	NO	4.1012	4.1012

TargetLynx - 230611R2-8 * - [Chromatogram]

File Edit View Display Processing Window Help

230611R2_8 - 2305023-05 PS63-SS-05 24 64 - PS63-SS-05

	Name	RT	m1 Resp	m2 Resp	RA	nAy	EMPC	Conc.
1	Total Hexa-Furans	32.09	1.315e5	1.104e5	1.19	NO	301.04	301.04
2	Total Hexa-Furans	32.26	2.731e5	2.316e5	1.18	NO	628.31	628.31
3	Total Hexa-Furans	32.69	2.895e3	2.527e3	1.15	NO	6.7458	6.7458
4	Total Hexa-Furans	32.91	3.599e5	3.045e5	1.18	NO	826.87	826.87
5	Total Hexa-Furans	33.27	3.002e3	2.648e3	1.13	NO	7.0309	0.00000
6	1,2,3,4,7,8-HxCDF	33.39	2.318e4	1.914e4	1.21	NO	51.702	51.702
7	1,2,3,6,7,8-HxCDF	33.54	2.067e4	1.687e4	1.23	NO	39.853	39.853
8	Total Hexa-Furans	33.86	1.943e3	1.619e3	1.20	NO	4.4319	4.4319
9	2,3,4,6,7,8-HxCDF	34.24	2.054e4	1.744e4	1.18	NO	48.093	48.093
10	Total Hexa-Furans	34.28	3.463e3	2.894e3	1.20	NO	7.6621	7.6621
11	1,2,3,7,8,9-HxCDF	35.33	1.016e4	8.885e3	1.14	NO	30.396	30.396
12	Total Hexa-Furans	35.37	1.780e3	1.516e3	1.17	NO	4.1012	4.1012



Ready

230611R2_8

NUM

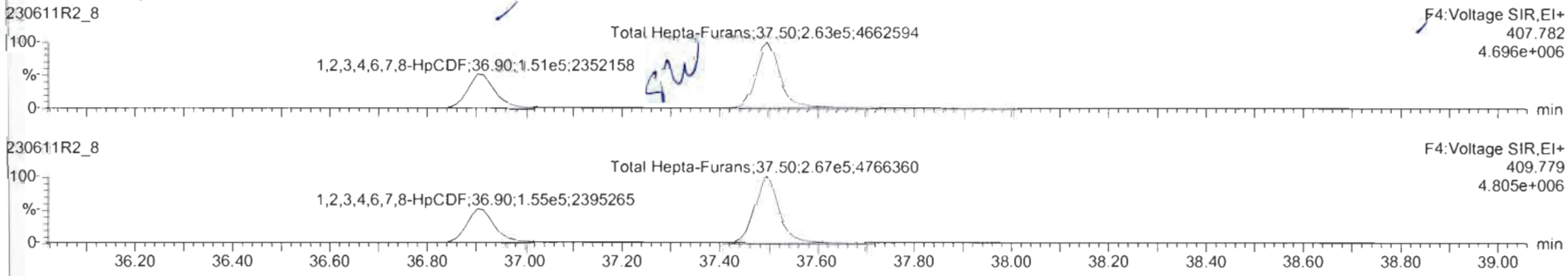
Enthalpy Analytical EDH VG-12

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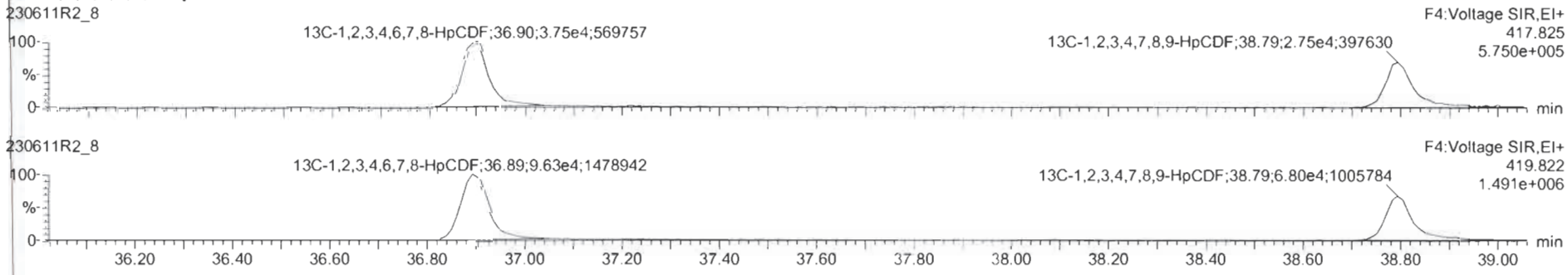
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Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05

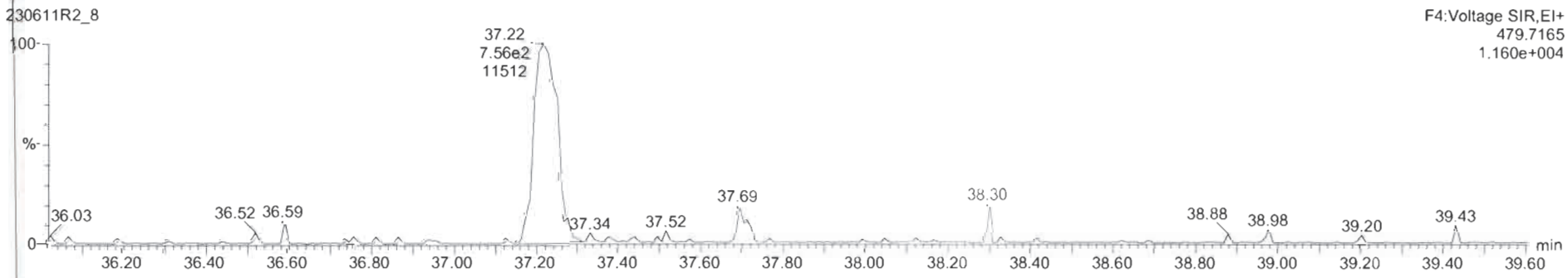
1,2,3,4,6,7,8-HpCDF

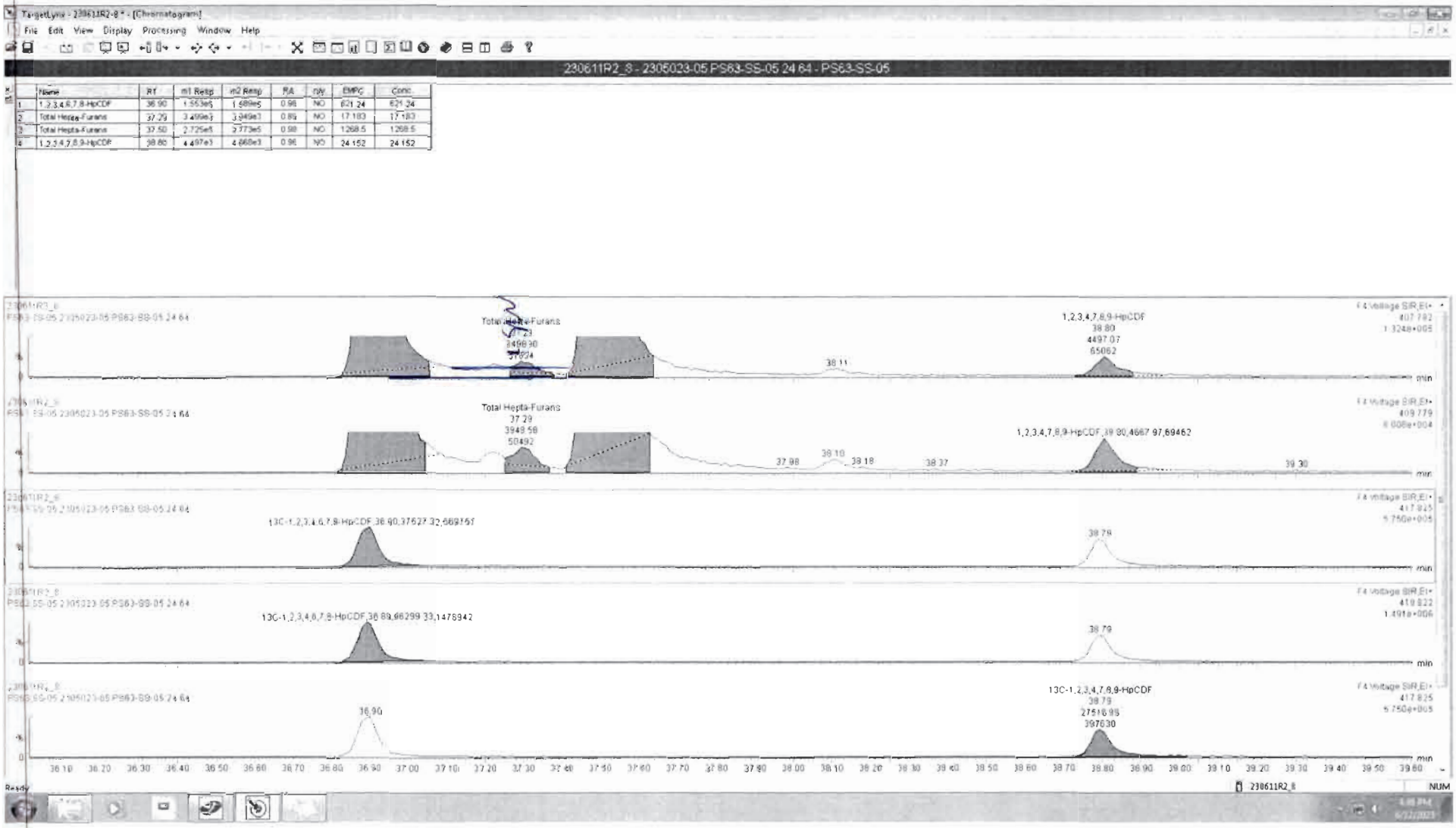


13C-1,2,3,4,6,7,8-HpCDF



DPE4





	Name	RT	m1 Resp	m2 Resp	RA	rW	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.90	1.553e5	1.689e5	0.96	NO	621.24	621.24
2	Total Hepta-Furans	37.29	3.499e3	3.949e3	0.89	NO	17.183	17.183
3	Total Hepta-Furans	37.50	2.725e5	2.773e5	0.98	NO	1268.5	1268.5
4	1,2,3,4,7,8,9-HpCDF	38.80	4.497e3	4.668e3	0.96	NO	24.152	24.152

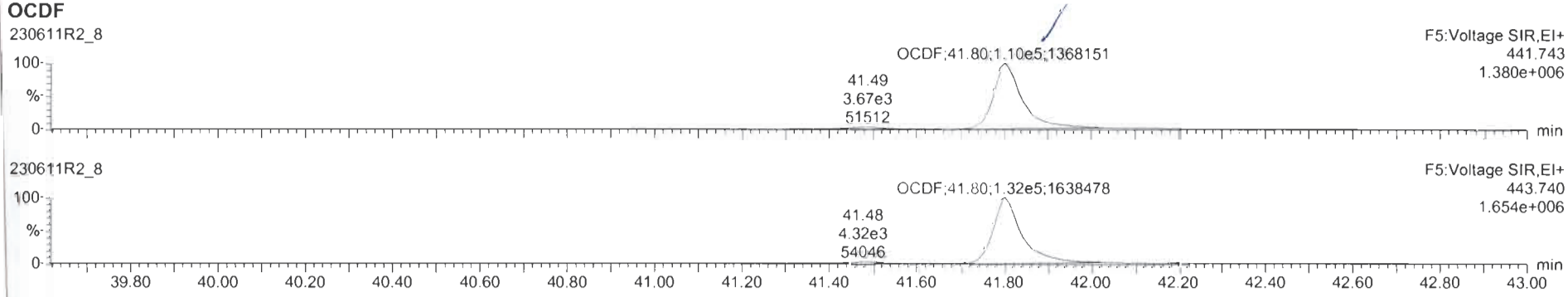
Enthalpy Analytical EDH VG-12

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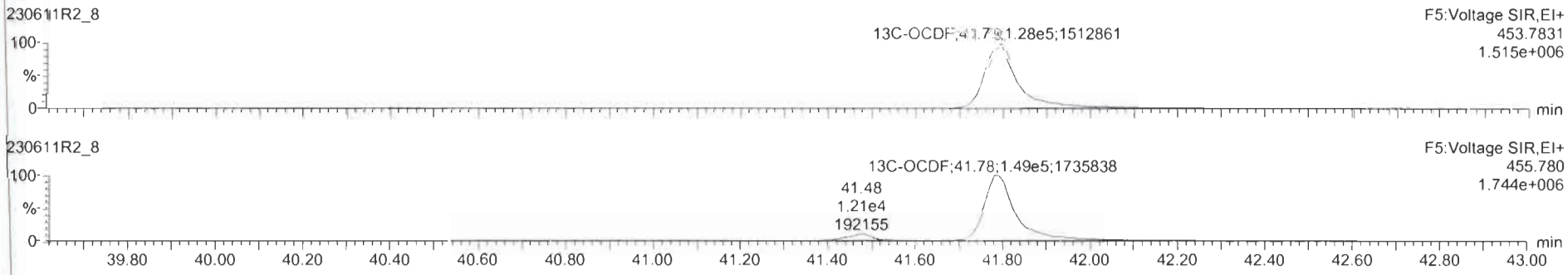
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Name: 230611R2_8, Date: 11-Jun-2023, Time: 18:17:08, ID: 2305023-05 PS63-SS-05 24.64, Description: PS63-SS-05

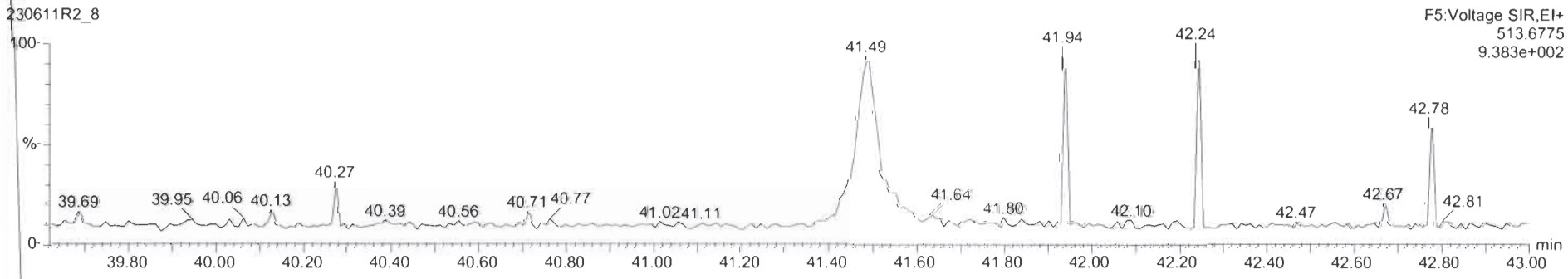
OCDF



13C-OCDF



DPE5

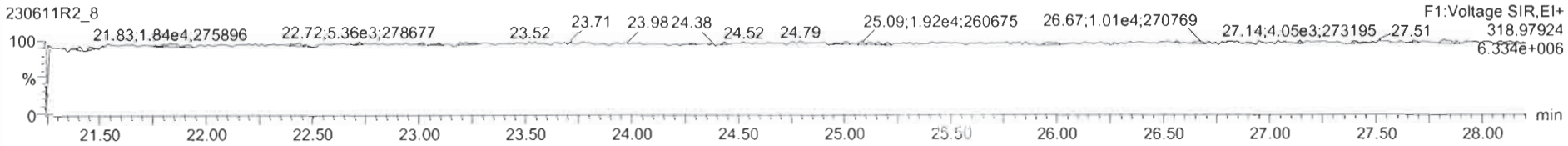


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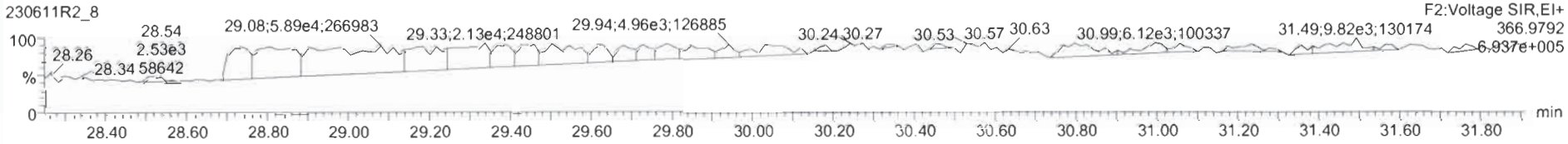
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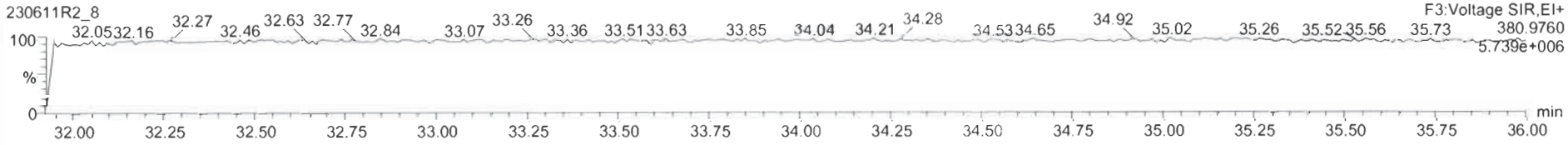
PFK1



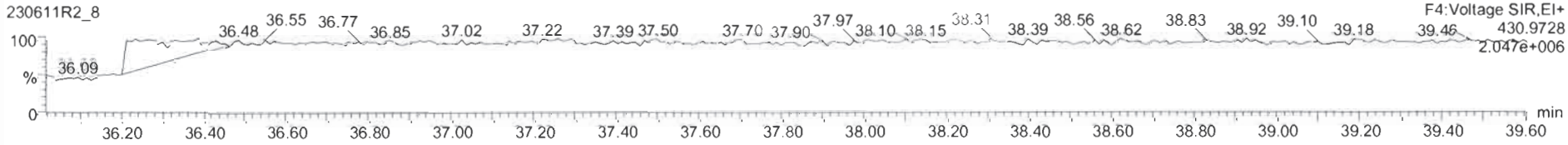
PFK2



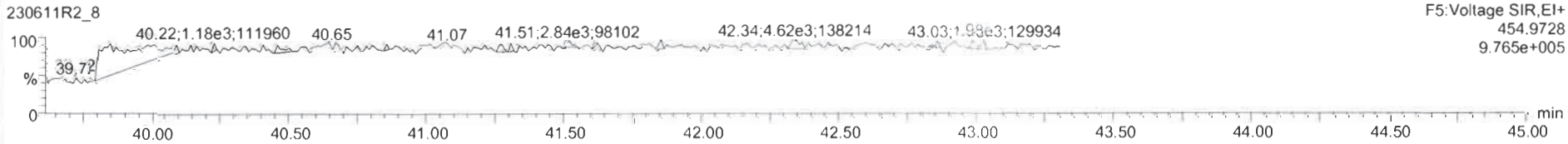
PFK3



PFK4



PFK5



Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230612R5\230612R5-18.qld

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Printed: Thursday, June 15, 2023 11:52:24 Pacific Daylight Time

6/20/23

ATM 06/15/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-12-23.cdb 13 Jun 2023 09:11:49

Name: 230612R5_18, Date: 13-Jun-2023, Time: 07:37:32, ID: 2305023-05@20X PS63-SS-05 24.64, Description: PS63-SS-05, Task: ICAL230612R5_1

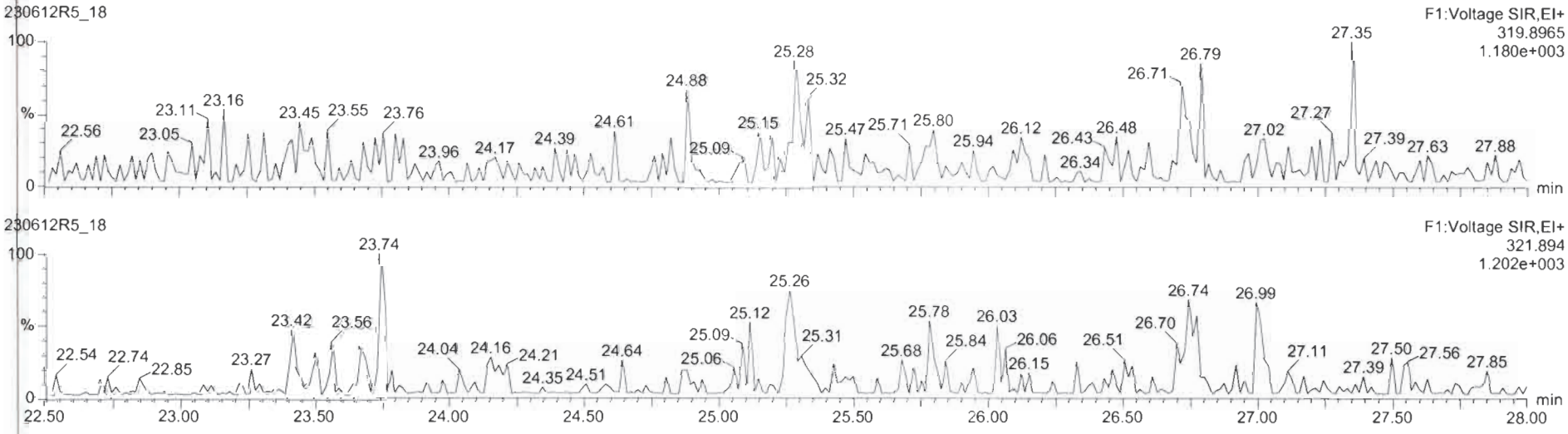
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1	1,2,3,4,6,7,8-HpCDD	1.30e5	1.04	NO	0.936	10.027	38.07	1.001	13787		91.7	13800
2	OCDD	6.82e5	0.91	NO	0.849	10.027	41.40	1.000	89168		190	89200
3	13C-1,2,3,4,6,7,8-HpCDD	2.01e3	0.90	NO	0.550	10.027	38.05	1.125	162.91	81.7	13.2	
4	13C-OCDD	3.59e3	0.82	NO	0.482	10.027	41.42	1.225	332.52	83.4	15.3	
5	37Cl-2,3,7,8-TCDD	1.61e3			0.959	10.027	26.73	1.027	69.159	86.7	4.69	
6	13C-1,2,3,4,6,9-HxCDF	4.48e3	0.47	NO	1.00	10.027	33.82	1.000	199.47	100	31.3	

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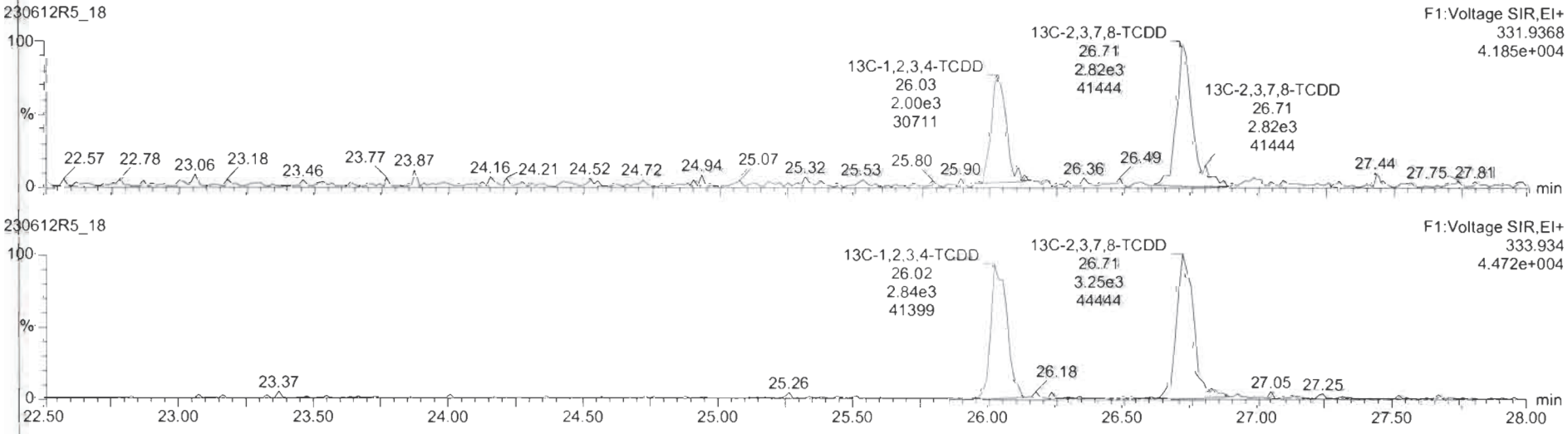
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Name: 230612R5_18, Date: 13-Jun-2023, Time: 07:37:32, ID: 2305023-05@20X PS63-SS-05 24.64, Description: PS63-SS-05

2,3,7,8-TCDD



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



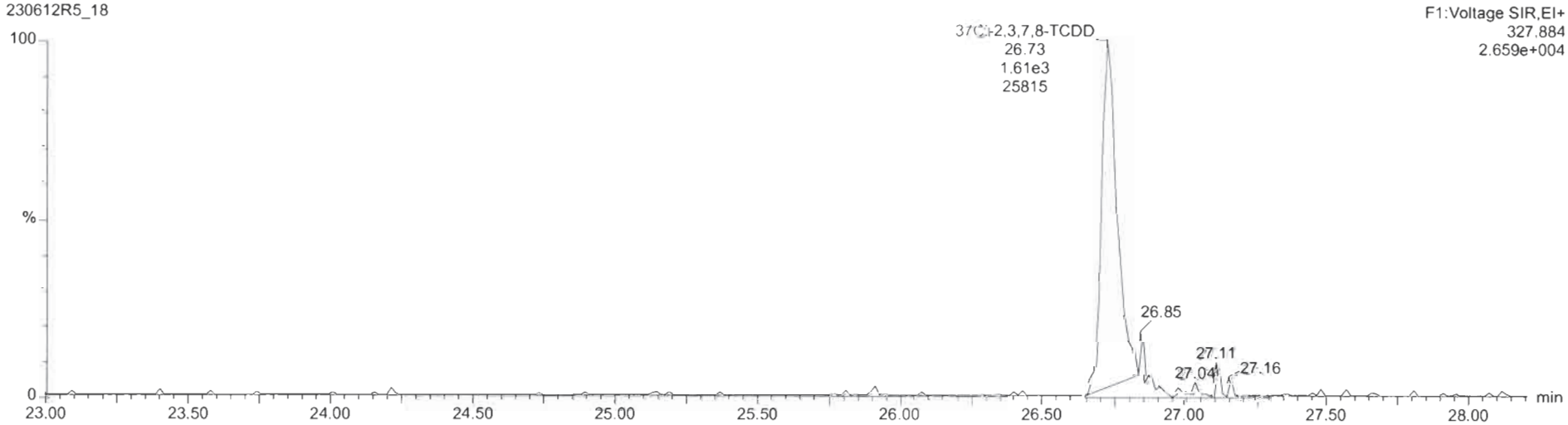
Enthalpy Analytical EDH VG-12

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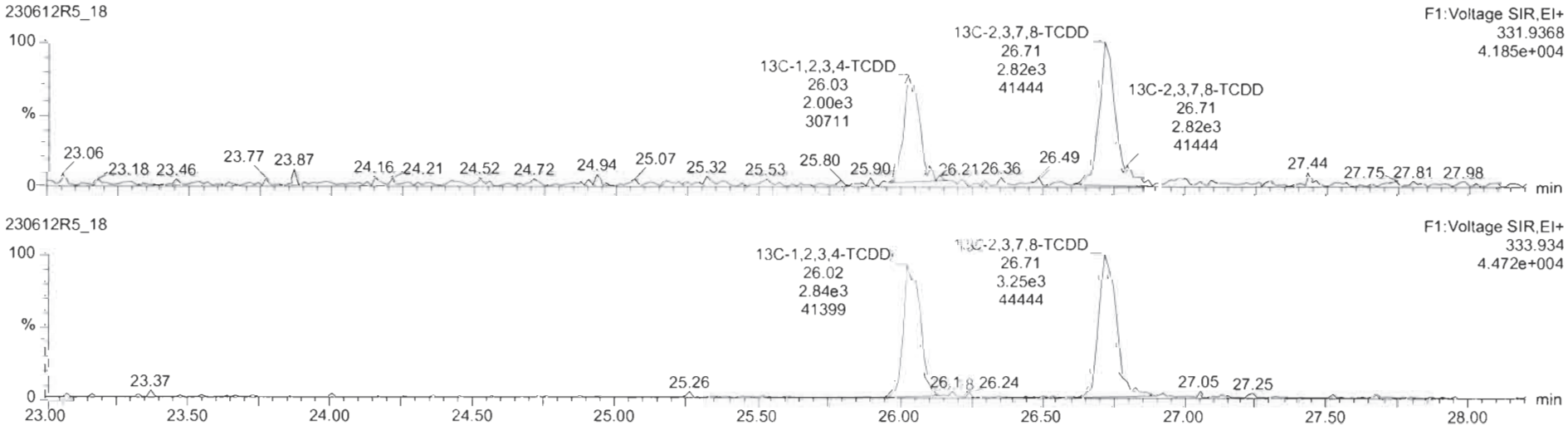
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37Cl-2,3,7,8-TCDD



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

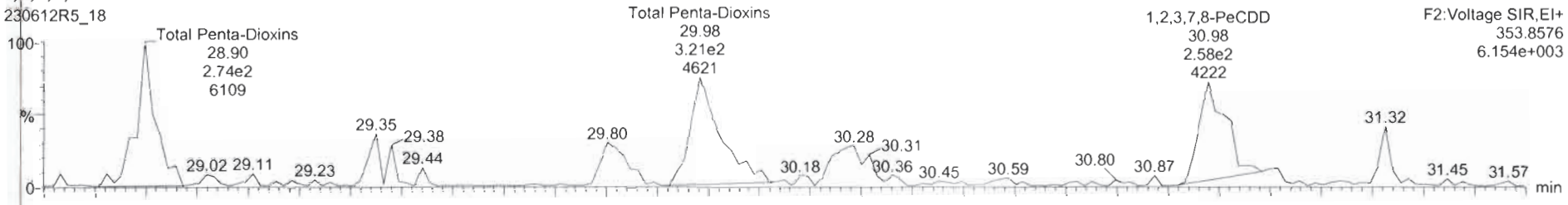


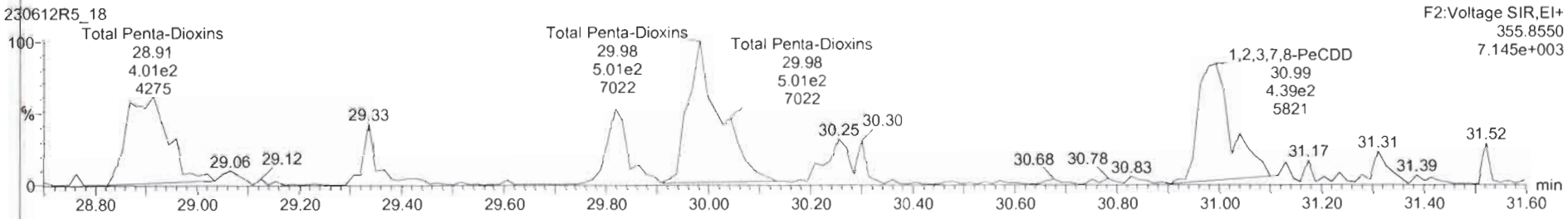
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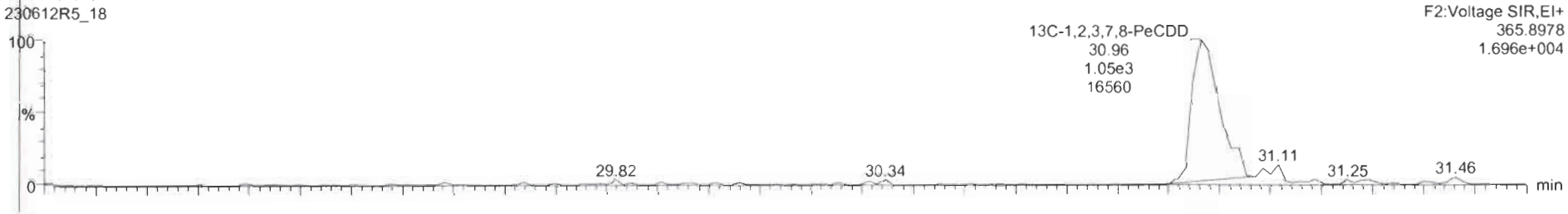
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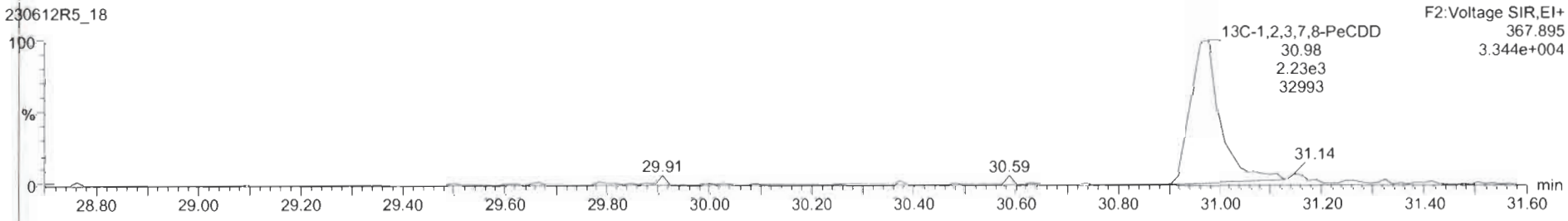
1,2,3,7,8-PeCDD





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



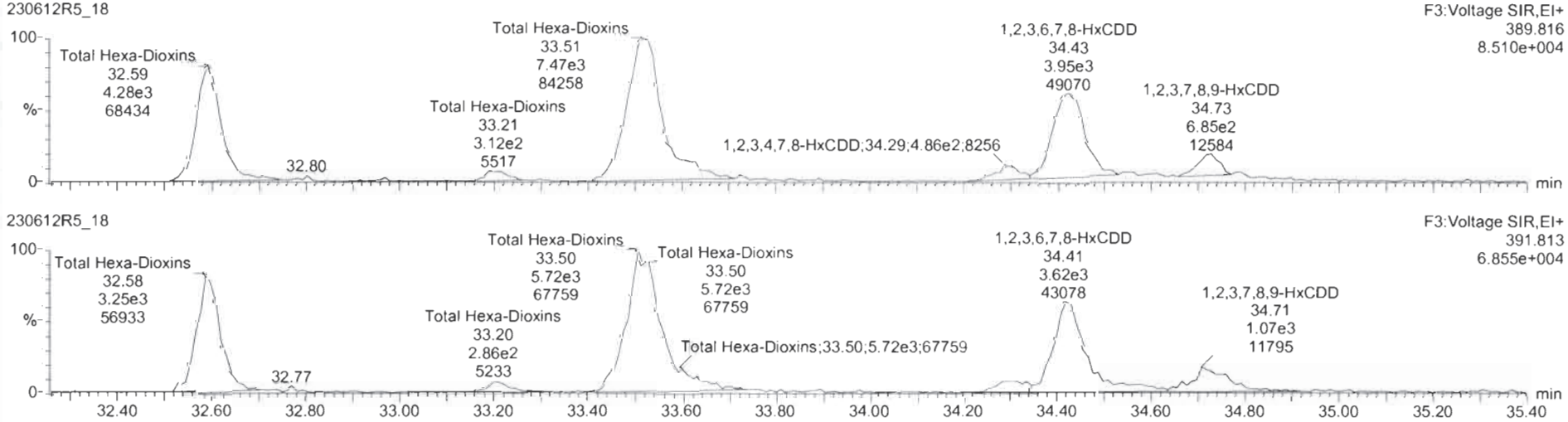


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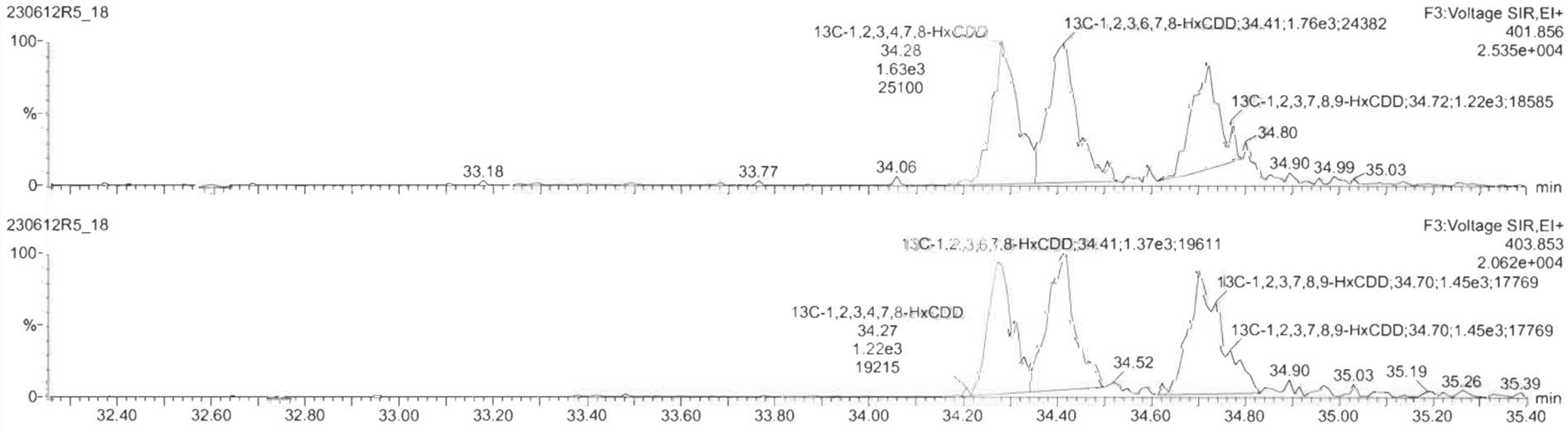
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1,2,3,4,7,8-HxCDD



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

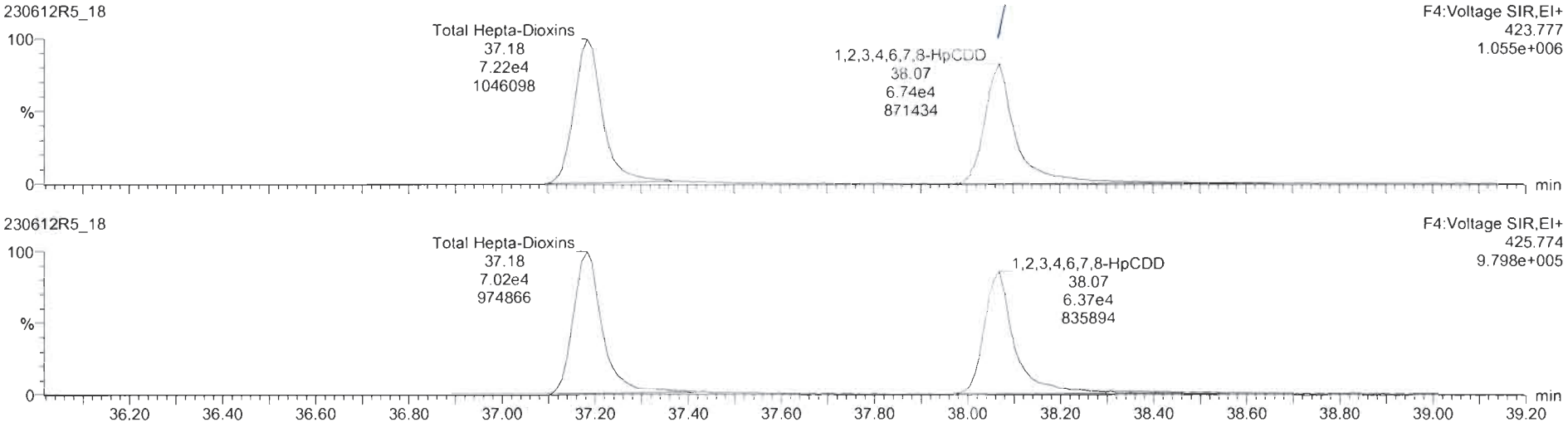


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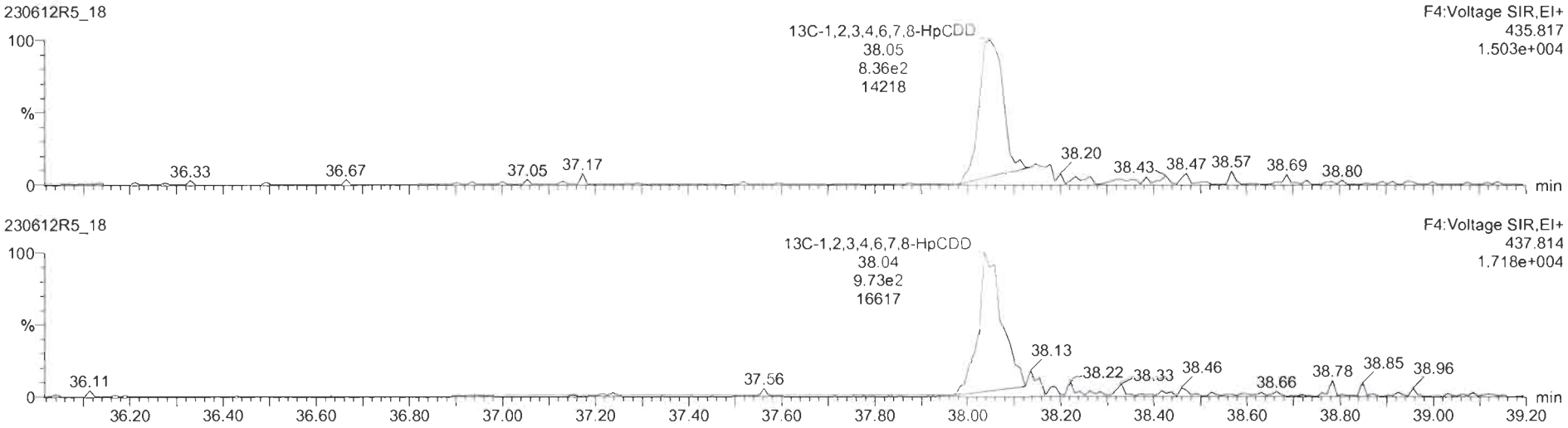
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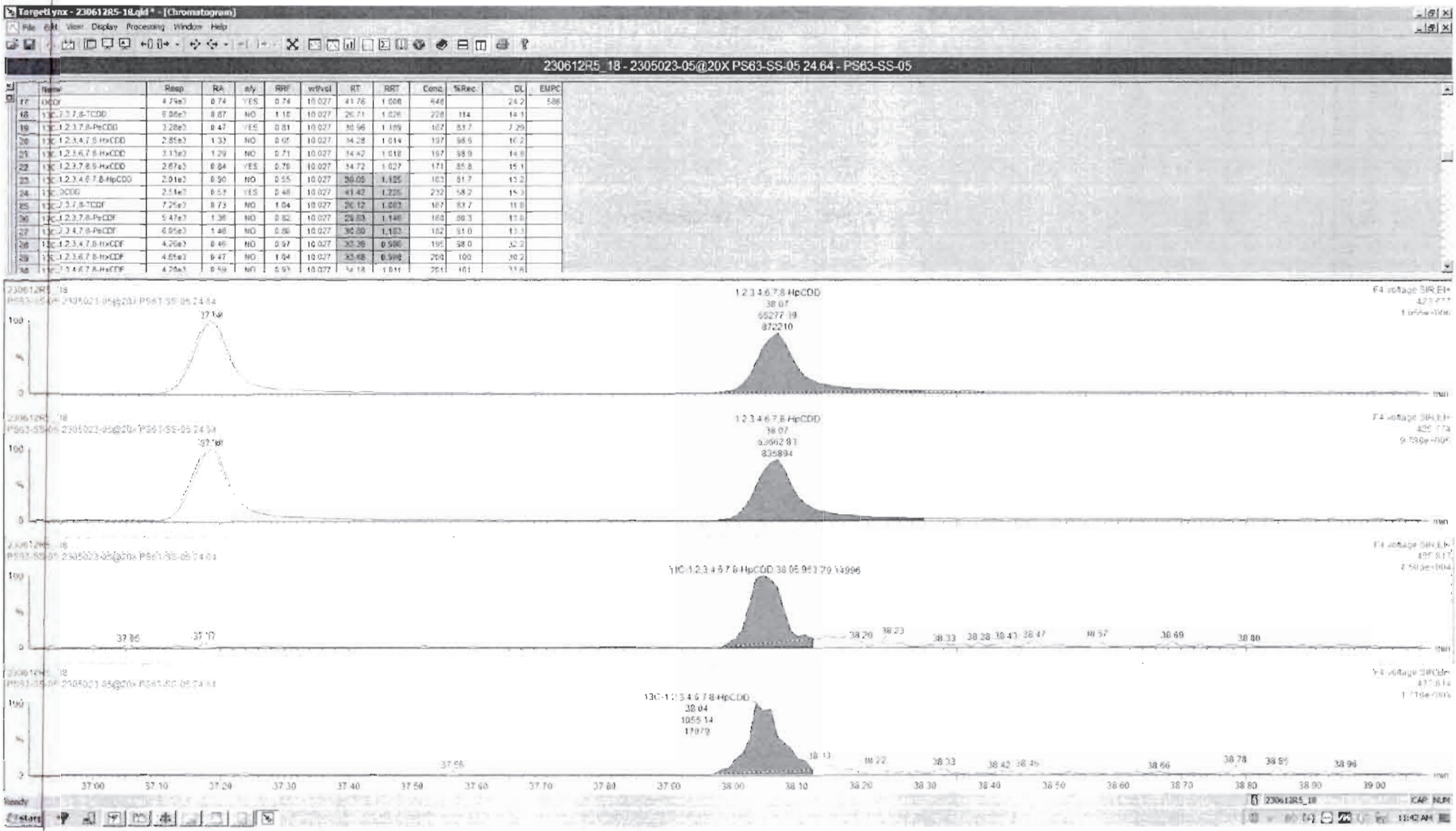
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1,2,3,4,6,7,8-HpCDD



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





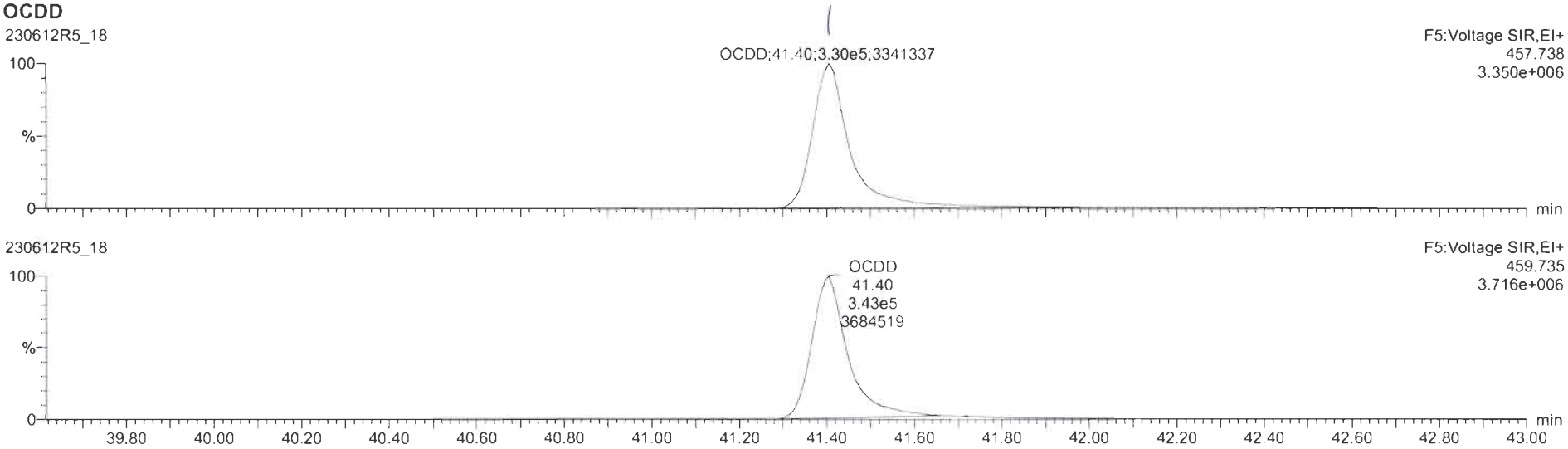
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17	OCDF	4.75e3	0.74	YES	0.74	10.027	41.76	1.008	446		24.2	586
18	13C-2,3,7,8-TCDD	6.86e3	0.87	NO	1.18	10.027	26.71	1.028	228	114	14.1	
19	13C-1,2,3,7,8-PeCDD	3.28e3	0.47	YES	0.81	10.027	30.96	1.169	167	83.7	7.29	
20	13C-1,2,3,4,7,8-HxCDD	2.85e3	1.33	NO	0.65	10.027	34.28	1.014	197	98.5	10.2	
21	13C-1,2,3,6,7,8-HxCDD	3.11e3	1.29	NO	0.71	10.027	34.42	1.018	197	98.9	14.8	
22	13C-1,2,3,7,8,9-HxCDD	2.67e3	0.84	YES	0.76	10.027	34.72	1.027	171	85.8	15.1	
23	13C-1,2,3,4,6,7,8-HpCDD	2.01e3	0.90	NO	0.55	10.027	38.05	1.125	163	81.7	13.2	
24	13C-OCDD	2.51e3	0.57	YES	0.48	10.027	41.42	1.225	232	58.2	15.3	
25	13C-2,3,7,8-TCDF	7.25e3	0.73	NO	1.04	10.027	26.12	1.002	167	83.7	11.8	
26	13C-1,2,3,7,8-PeCDF	5.47e3	1.36	NO	0.82	10.027	29.83	1.146	166	83.3	11.6	
27	13C-2,3,4,7,8-PeCDF	6.05e3	1.48	NO	0.89	10.027	30.89	1.183	182	91.0	13.3	
28	13C-1,2,3,4,7,8-HxCDF	4.26e3	0.46	NO	0.97	10.027	32.36	0.580	195	98.0	32.2	
29	13C-1,2,3,6,7,8-HxCDF	4.65e3	0.47	NO	1.04	10.027	32.48	0.581	200	100	30.2	
30	13C-2,3,4,6,7,8-HxCDF	4.26e3	0.59	NO	0.93	10.027	34.18	1.011	201	101	33.8	

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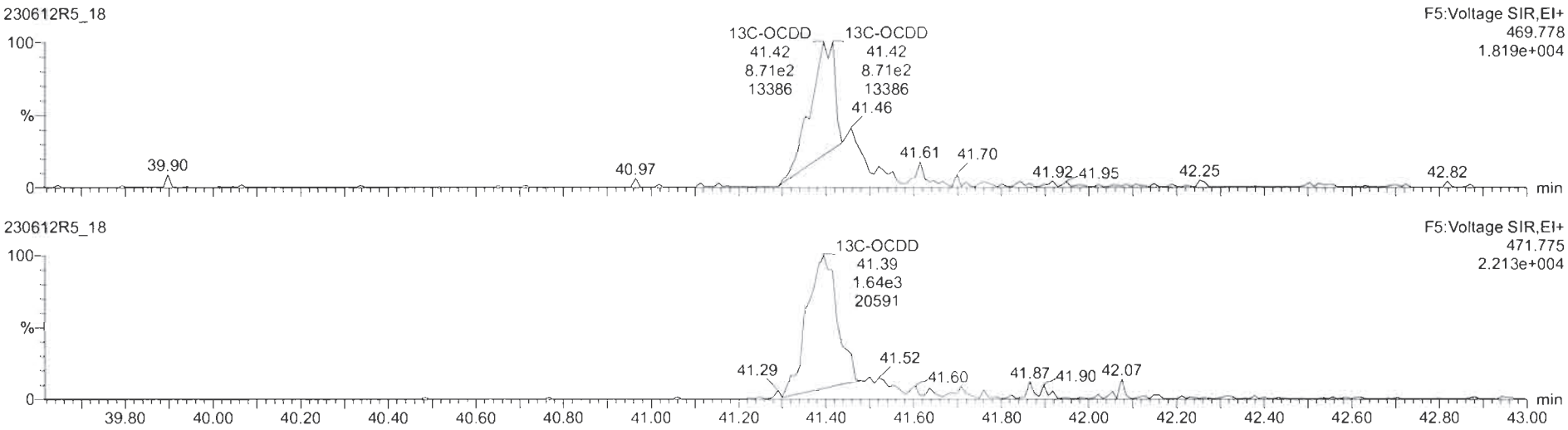
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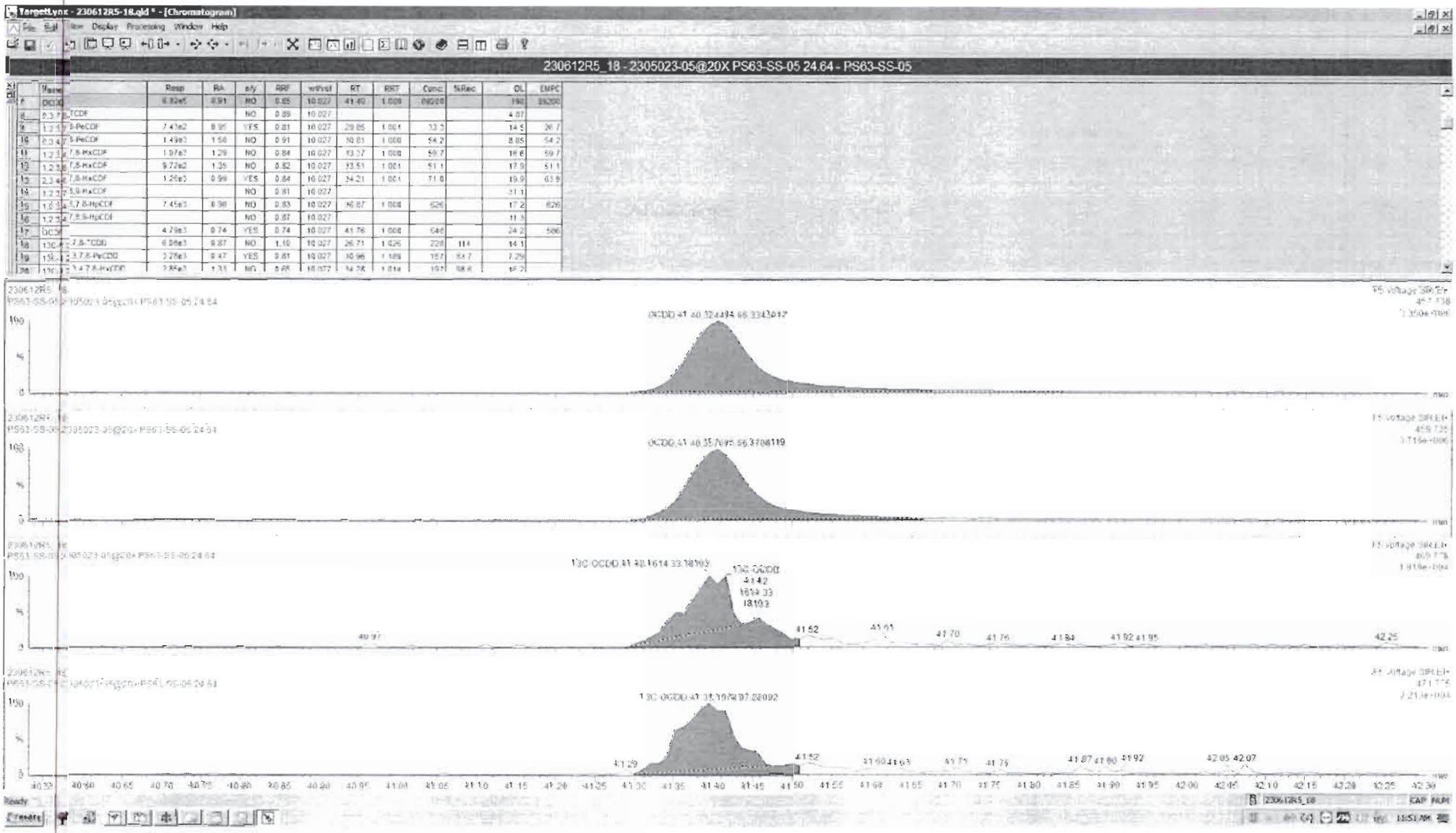
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OCDD



13C-OCDD



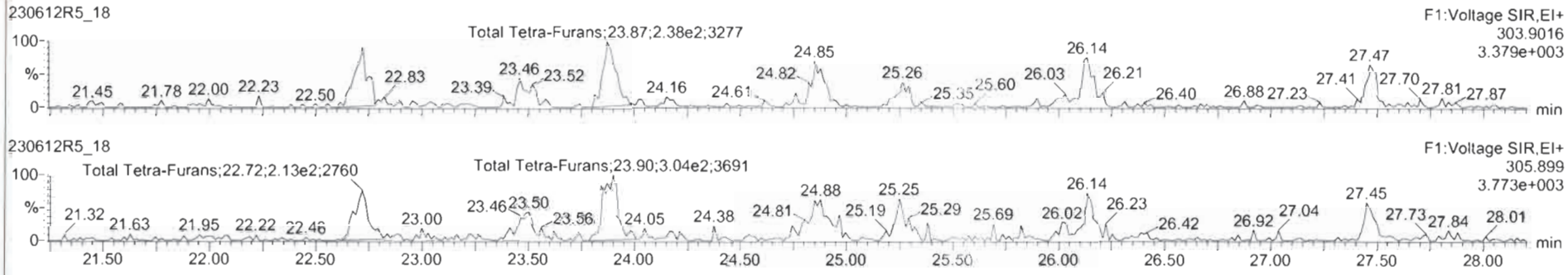

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230612R5_18 - 2305023-05@20X PS63-SS-05 24.64 - PS63-SS-05
OCDD 41.40
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3.716e+006
1.818e+004
41.52
41.29
41.52
2.214e+004

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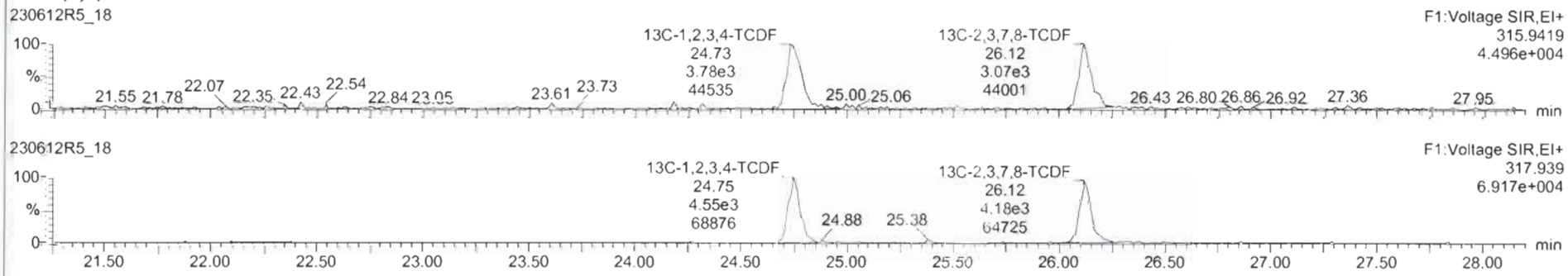
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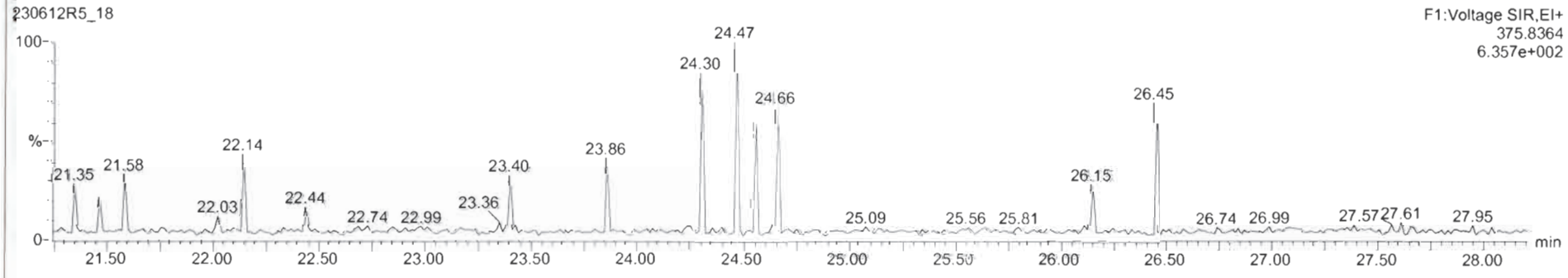
2,3,7,8-TCDF



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



OPE1



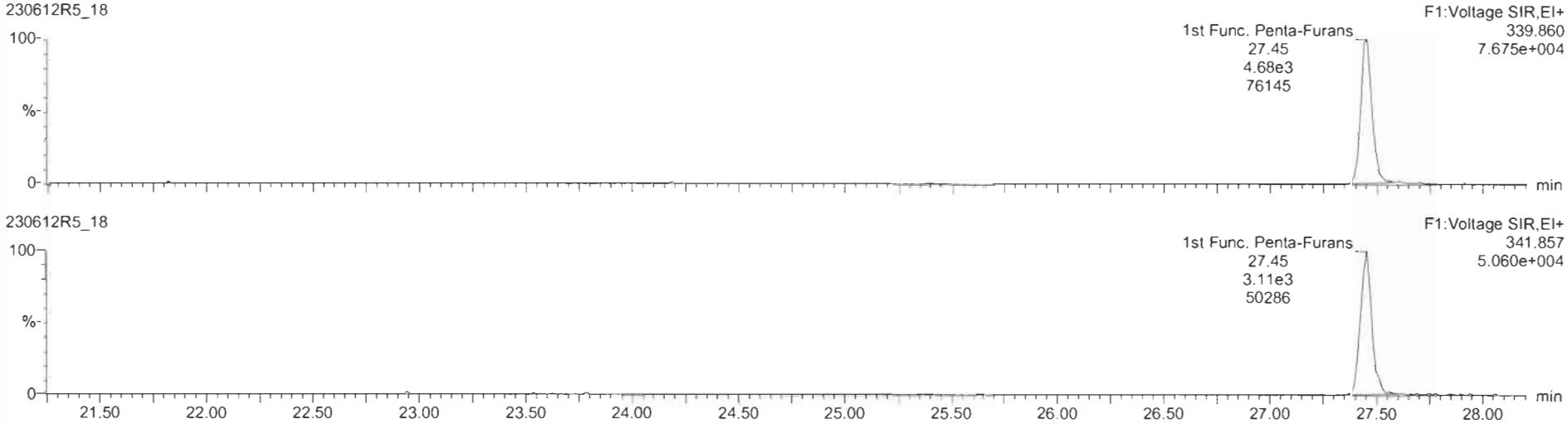
Enthalpy Analytical EDH VG-12

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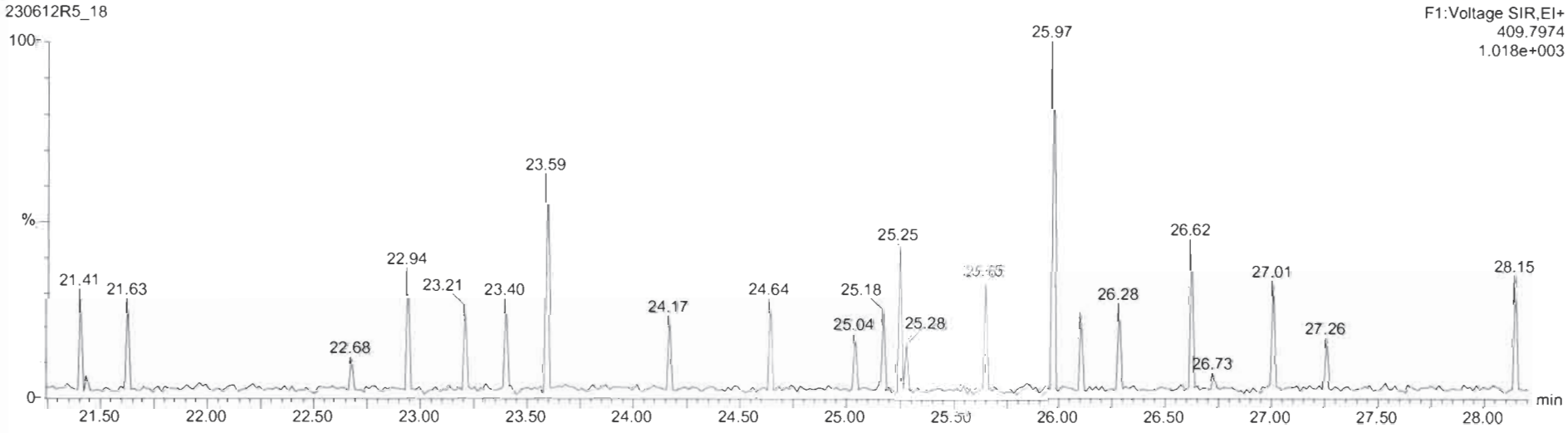
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1st Func. Penta-Furans



DPE6

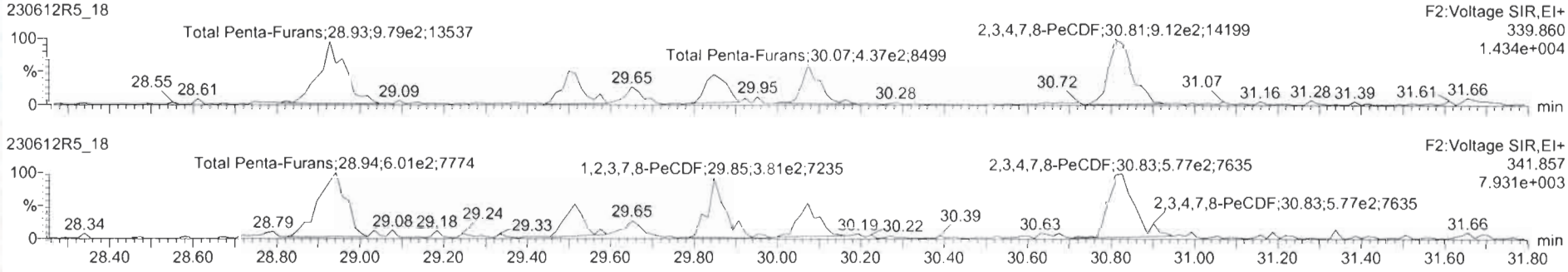


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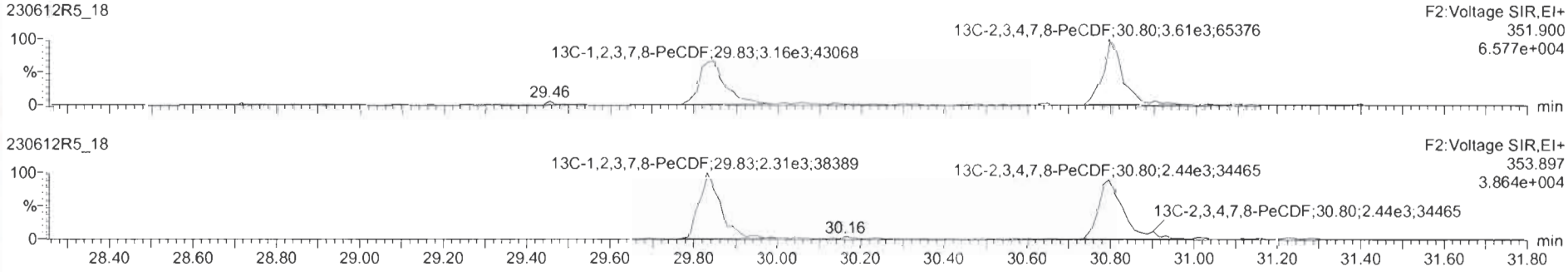
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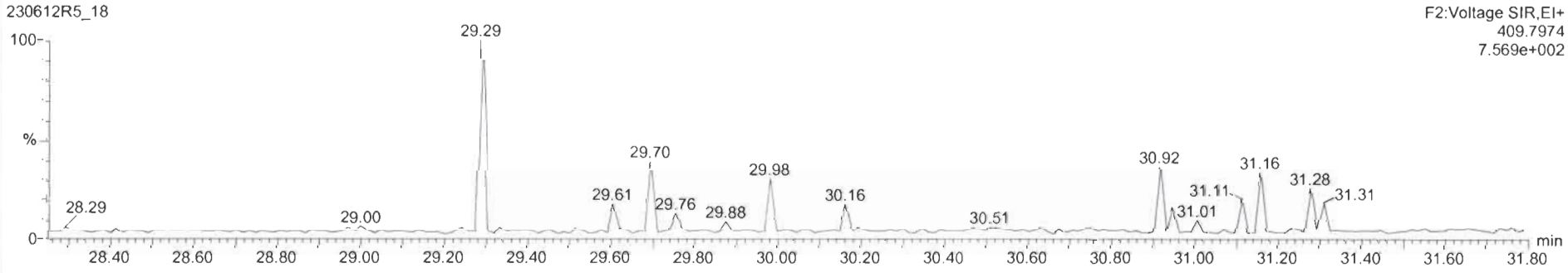
1,2,3,7,8-PeCDF



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



DPE2

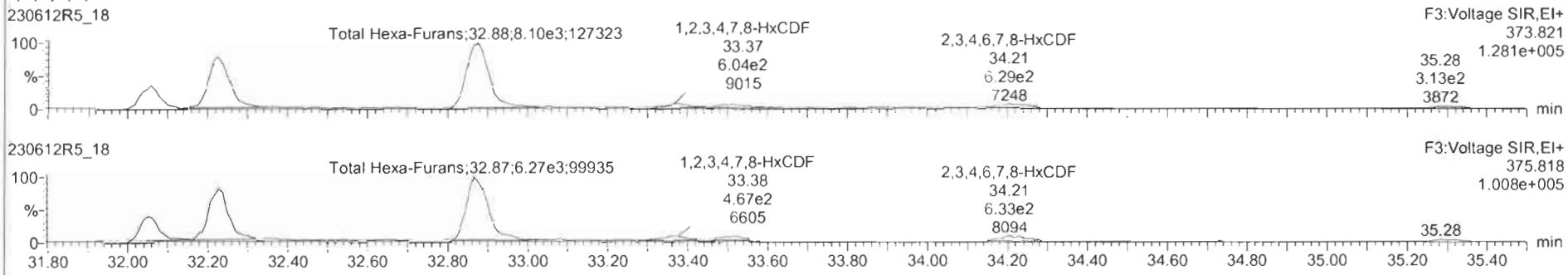


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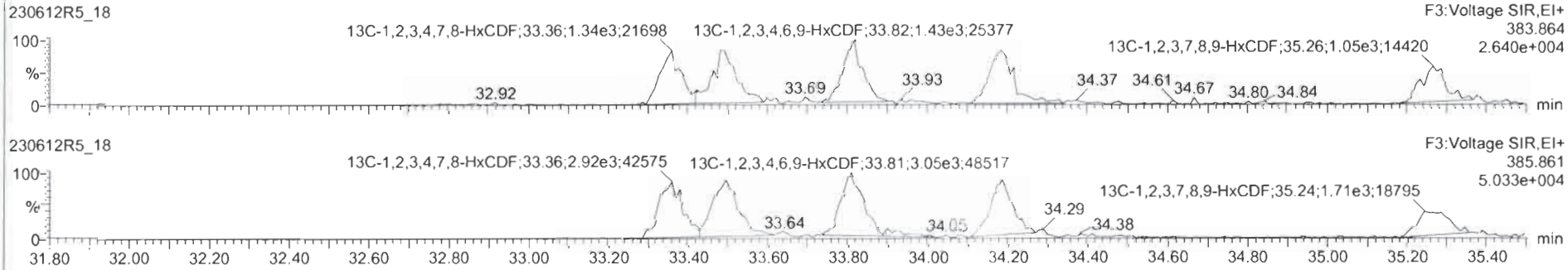
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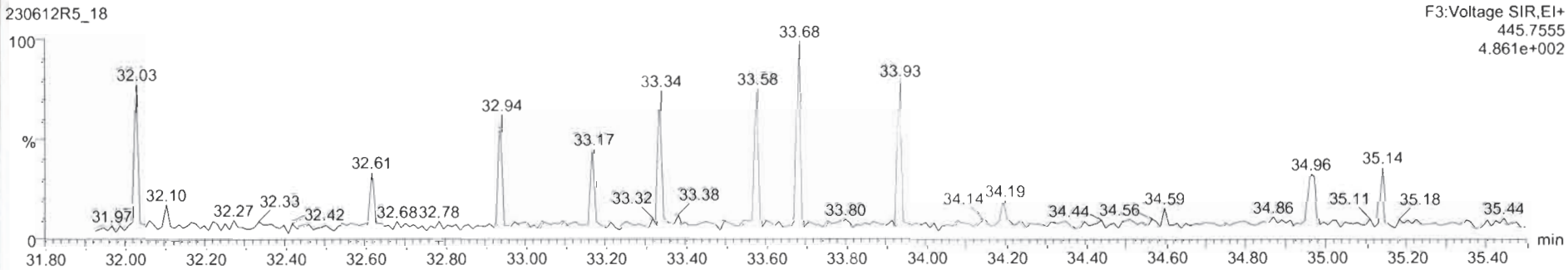
1,2,3,4,7,8-HxCDF



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



DPE3

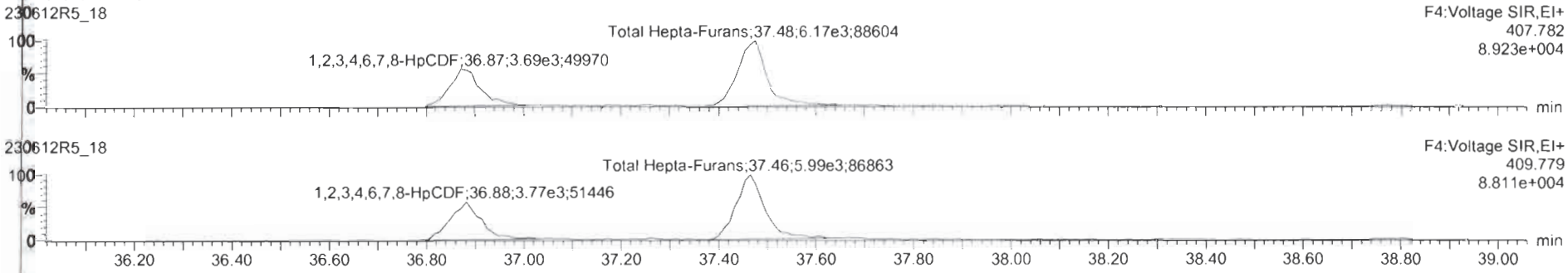


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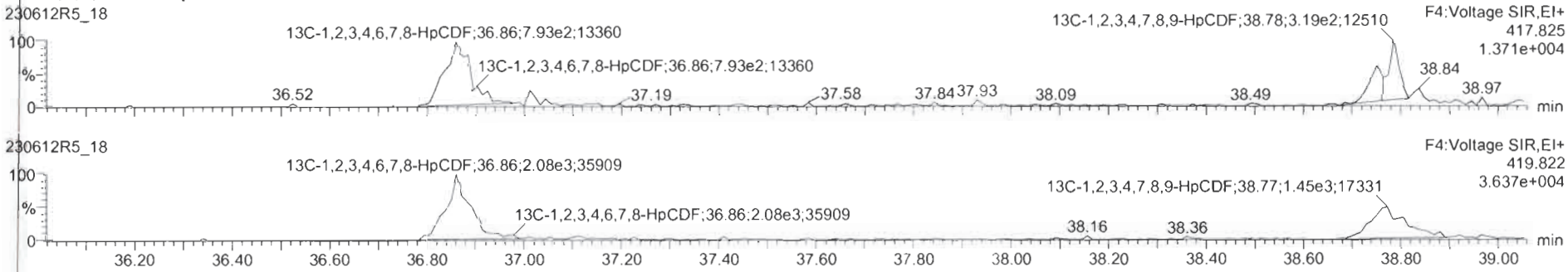
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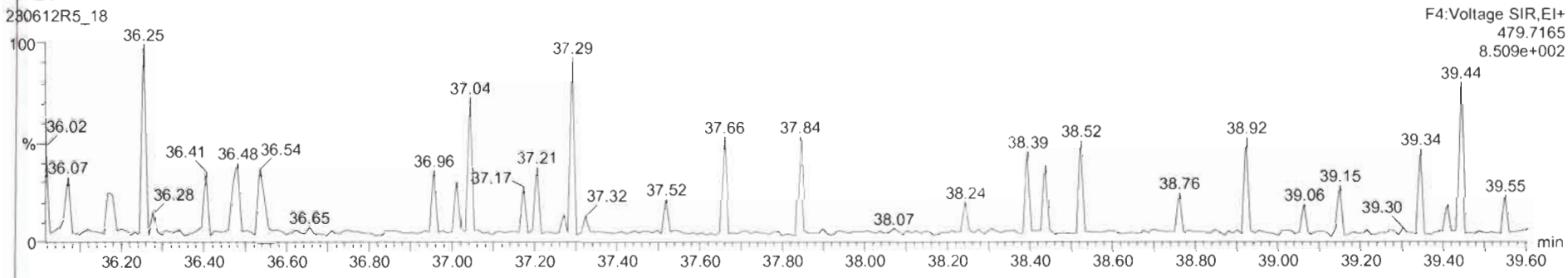
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13C-1,2,3,4,6,7,8-HpCDF



DPE4

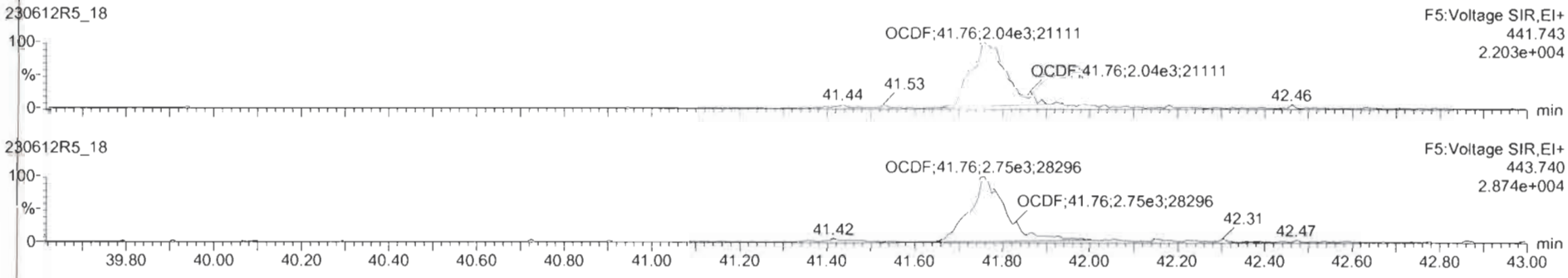


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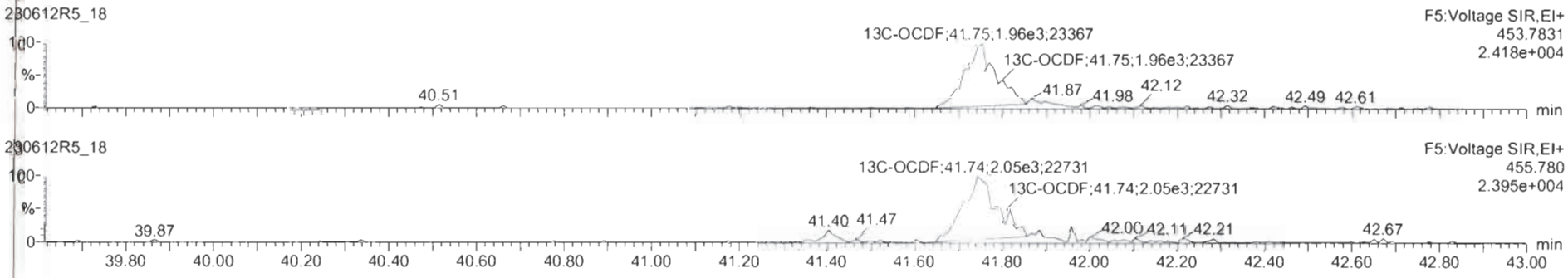
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Printed: Tuesday, June 13, 2023 12:14:17 Pacific Daylight Time

Name: 230612R5_18, Date: 13-Jun-2023, Time: 07:37:32, ID: 2305023-05@20X PS63-SS-05 24.64, Description: PS63-SS-05

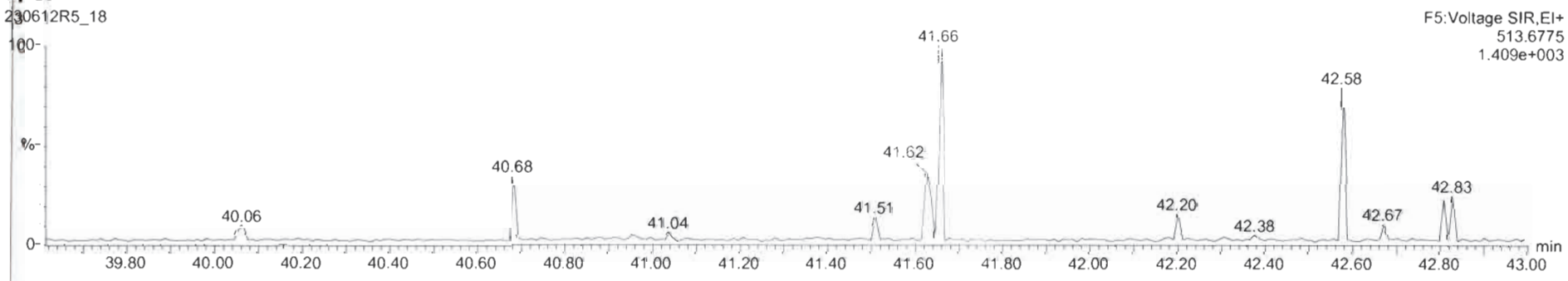
OCDF



13C-OCDF



DPE5



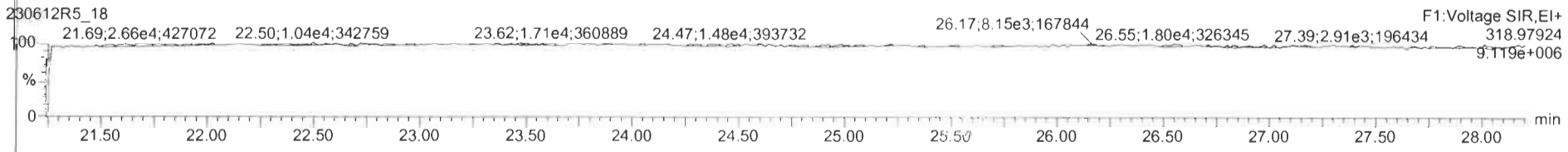
Enthalpy Analytical EDH VG-12

Dataset: Untitled

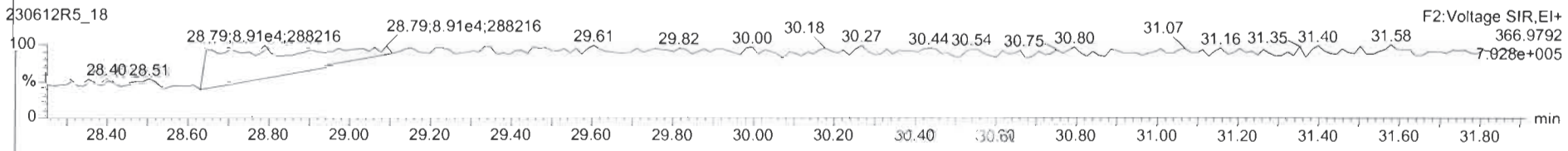
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Printed: Tuesday, June 13, 2023 12:14:17 Pacific Daylight Time

Name: 230612R5_18, Date: 13-Jun-2023, Time: 07:37:32, ID: 2305023-05@20X PS63-SS-05 24.64, Description: PS63-SS-05

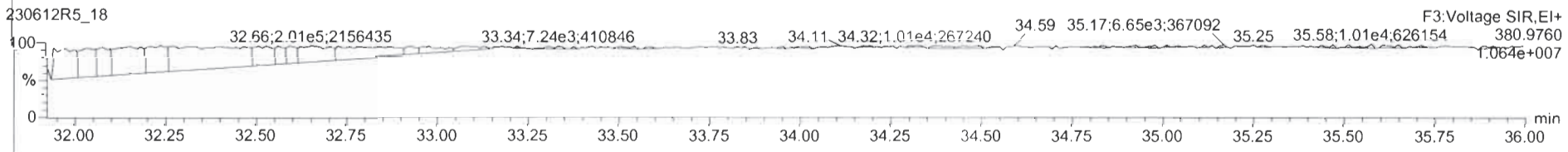
PFK1



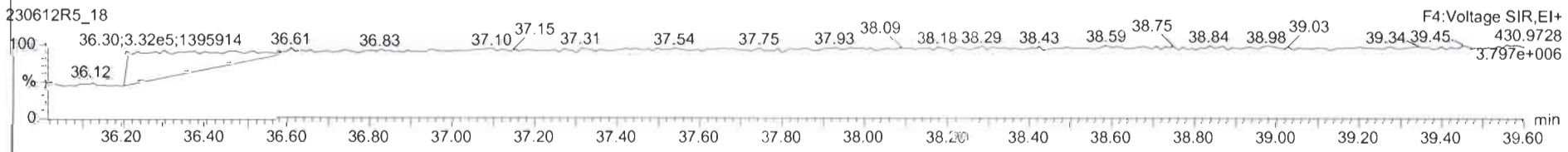
PFK2



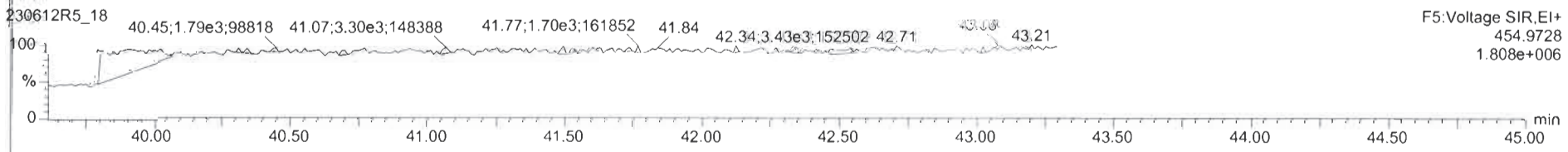
PFK3



PFK4



PFK5



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID: ST230605R1-1 **Reviewed By:** MAF 06.06.23

Initials & Date

End Calibration ID: NA

	Beg.	End
Ion abundance within QC limits?	☒	NA
Concentrations within criteria?	☒	☐
TCDD/TCDF Valleys <25%	☒	☐
First and last eluters present?	☒	☐
Retention Times within criteria?	☒	☐
Verification Std. named correctly?	☒	☐
(ST-Year-Month-Day-VG ID)		
Forms signed and dated?	☒	☐
Correct ICAL referenced?	ATM	

Run Log:

- Correct instrument listed?	☒	☑
- Samples within 12 hour clock?	(Y)	N
- Bottle position verfied?	ATM	

	Beg.	End
Mass resolution ≥	☒	☒

☐ 5k ☐ 6-8K ☐ 8K ☑ 10K

1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?	☒	NA
GC Break <20%	NA	

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours — NA

Comments:

Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230605R1\230605R1-1.qld

Last Altered: Monday, June 05, 2023 10:58:53 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 08:29:28 Pacific Daylight Time

MAF 06-06-23

AT M 06/06/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R1_1, Date: 05-Jun-2023, Time: 10:10:45, ID: ST230605R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

	#	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	6.07e4	6.63e5	0.73	NO	0.906	26.82	26.80	NO	1.001	1.001	10.108	101	NO
2	2	1,2,3,7,8-PeCDD	2.07e5	4.84e5	0.62	NO	0.745	31.03	31.02	NO	1.001	1.000	57.268	115	NO
3	3	1,2,3,4,7,8-HxCDD	1.98e5	4.22e5	1.29	NO	0.837	34.33	34.34	NO	1.000	1.001	55.945	112	NO
4	4	1,2,3,6,7,8-HxCDD	1.89e5	4.32e5	1.31	NO	0.782	34.47	34.47	NO	1.001	1.001	55.846	112	NO
5	5	1,2,3,7,8,9-HxCDD	2.05e5	4.65e5	1.31	NO	0.780	34.76	34.76	NO	1.001	1.001	56.394	113	NO
6	6	1,2,3,4,6,7,8-HpCDD	1.71e5	3.47e5	1.03	NO	0.903	38.11	38.11	NO	1.000	1.000	54.483	109	NO
7	7	OCDD	2.71e5	6.12e5	0.90	NO	0.782	41.48	41.47	NO	1.000	1.000	113.39	113	NO
8	8	2,3,7,8-TCDF	7.61e4	8.19e5	0.72	NO	0.852	26.19	26.20	NO	1.000	1.001	10.896	109	NO
9	9	1,2,3,7,8-PeCDF	3.19e5	7.22e5	1.66	NO	0.758	29.90	29.89	NO	1.001	1.000	58.252	117	NO
10	10	2,3,4,7,8-PeCDF	3.39e5	6.86e5	1.65	NO	0.834	30.86	30.84	NO	1.001	1.000	59.205	118	NO
11	11	1,2,3,4,7,8-HxCDF	2.30e5	5.47e5	1.19	NO	0.762	33.40	33.41	NO	1.000	1.001	55.280	111	NO
12	12	1,2,3,6,7,8-HxCDF	2.24e5	5.75e5	1.18	NO	0.726	33.54	33.55	NO	1.001	1.001	53.689	107	NO
13	13	2,3,4,6,7,8-HxCDF	2.14e5	5.23e5	1.19	NO	0.756	34.24	34.24	NO	1.001	1.001	54.161	108	NO
14	14	1,2,3,7,8,9-HxCDF	1.90e5	4.78e5	1.20	NO	0.749	35.31	35.31	NO	1.000	1.000	53.051	106	NO
15	15	1,2,3,4,6,7,8-HpCDF	1.62e5	3.96e5	1.00	NO	0.754	36.93	36.92	NO	1.000	1.000	54.136	108	NO
16	16	1,2,3,4,7,8,9-HpCDF	1.37e5	3.02e5	0.99	NO	0.792	38.82	38.82	NO	1.000	1.000	57.113	114	NO
17	17	OCDF	2.71e5	7.54e5	0.85	NO	0.669	41.82	41.83	NO	1.000	1.000	107.40	107	NO
18	18	13C-2,3,7,8-TCDD	6.63e5	6.07e5	0.78	NO	1.13	26.78	26.79	NO	1.026	1.026	97.011	97.0	NO
19	19	13C-1,2,3,7,8-PeCDD	4.84e5	6.07e5	0.62	NO	0.869	30.74	31.01	NO	1.178	1.188	91.778	91.8	NO
20	20	13C-1,2,3,4,7,8-HxCDD	4.22e5	5.51e5	1.25	NO	0.746	34.31	34.32	NO	1.013	1.014	102.61	103	NO
21	21	13C-1,2,3,6,7,8-HxCDD	4.32e5	5.51e5	1.22	NO	0.803	34.46	34.45	NO	1.018	1.017	97.546	97.5	NO
22	22	13C-1,2,3,7,8,9-HxCDD	4.65e5	5.51e5	1.23	NO	0.817	34.76	34.74	NO	1.026	1.026	103.26	103	NO
23	23	13C-1,2,3,4,6,7,8-HpCDD	3.47e5	5.51e5	1.05	NO	0.611	38.10	38.10	NO	1.125	1.125	102.92	103	NO
24	24	13C-OCDD	6.12e5	5.51e5	0.83	NO	0.545	41.42	41.46	NO	1.223	1.224	203.43	102	NO
25	25	13C-2,3,7,8-TCDF	8.19e5	8.42e5	0.79	NO	1.07	26.18	26.18	NO	1.003	1.003	90.680	90.7	NO
26	26	13C-1,2,3,7,8-PeCDF	7.22e5	8.42e5	1.60	NO	0.907	29.88	29.88	NO	1.145	1.144	94.571	94.6	NO
27	27	13C-2,3,4,7,8-PeCDF	6.86e5	8.42e5	1.58	NO	0.889	30.84	30.84	NO	1.181	1.181	91.669	91.7	NO
28	28	13C-1,2,3,4,7,8-HxCDF	5.47e5	5.51e5	0.49	NO	0.993	33.42	33.39	NO	0.987	0.986	99.803	99.8	NO
29	29	13C-1,2,3,6,7,8-HxCDF	5.75e5	5.51e5	0.49	NO	1.05	33.54	33.53	NO	0.990	0.990	98.964	99.0	NO
30	30	13C-2,3,4,6,7,8-HxCDF	5.23e5	5.51e5	0.50	NO	0.956	34.22	34.22	NO	1.010	1.010	99.281	99.3	NO

Dataset: I:\VG12.PRO\Results\230605R1\230605R1-1.qld

Last Altered: Monday, June 05, 2023 10:58:53 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 08:29:28 Pacific Daylight Time

Name: 230605R1_1, Date: 05-Jun-2023, Time: 10:10:45, ID: ST230605R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
31	31 13C-1,2,3,7,8,9-HxCDF	4.78e5	5.51e5	0.49	NO	0.853	35.28	35.29	NO	1.042	1.042	101.63	102	NO
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.96e5	5.51e5	0.41	NO	0.721	36.90	36.91	NO	1.090	1.090	99.627	99.6	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.02e5	5.51e5	0.41	NO	0.581	38.79	38.81	NO	1.146	1.146	94.262	94.3	NO
34	34 13C-OCDF	7.54e5	5.51e5	0.89	NO	0.718	41.81	41.81	NO	1.235	1.235	190.58	95.3	NO
35	35 37Cl-2,3,7,8-TCDD	5.88e4	6.07e5			0.980	26.79	26.80	NO	1.026	1.027	9.8852	98.9	NO
36	36 13C-1,2,3,4-TCDD	6.07e5	6.07e5	0.78	NO	1.00	26.11	26.11	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.42e5	8.42e5	0.79	NO	1.00	24.81	24.82	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.51e5	5.51e5	0.50	NO	1.00	33.84	33.86	NO	1.000	1.000	100.00	100	YES OK

Quantify Compound Summary Report **MassLynx 4.1 SCN815**
Enthalpy Analytical EDH VG-12

Dataset: Untitled

Last Altered: Tuesday, June 06, 2023 08:07:00 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 08:07:15 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

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

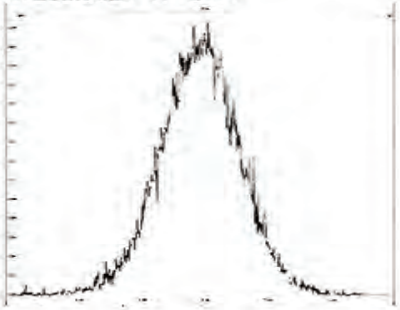
	Name	ID	Acq.Date	Acq.Time
1	230605R1_1	ST230605R1_1 1613 CS3 23E1003	05-Jun-23	10:10:45
2	230605R1_2	B23E152-BS1 OPR 10	05-Jun-23	11:09:13
3	230605R1_3	SOLVENT BLANK	05-Jun-23	11:53:46
4	230605R1_4	B23E152-BLK1 Method Blank 10	05-Jun-23	12:38:51
5	230605R1_5	2304079-07 PDI-222RAB-25-26-230403 15.18	05-Jun-23	13:23:57
6	230605R1_6	2304079-08 PDI-222RAB-26-27-230403 15.06	05-Jun-23	14:09:02
7	230605R1_7	2304079-09 PDI-222RAB-27-28-230403 15.66	05-Jun-23	14:54:11
8	230605R1_8	2304079-10 PDI-1223RAB-24-25-230404 14.31	05-Jun-23	15:39:08
9	230605R1_9	(A)		
10	230605R1_10	2304079-12 PDI-223RAB-22-23-230404 13.93	05-Jun-23	18:36:30
11	230605R1_11	2304079-13 PDI-223RAB-23-24-230404 14.4	05-Jun-23	19:21:06
12	230605R1_12	2304079-14 PDI-223RAB-24-25-230404 13.93	05-Jun-23	20:06:14
13	230605R1_13	2304130-01 PDI-216RAB-25-26-230413 14.34	05-Jun-23	20:51:22
14	230605R1_14	2304130-02 PDI-216RAB-26-27-230413 14.19	05-Jun-23	21:36:29
15	230605R1_15	2304130-03 PDI-216RAB-27-28-230413 14.6	05-Jun-23	22:21:29 (B)
16	230605R1_16	2304130-04 PDI-216RAB-28-29-230413 13.64	05-Jun-23	23:06:27

(A) Paused, RI ATM 06/06/23
(B) Out of 12-hour window, RI ATM 06/06/23

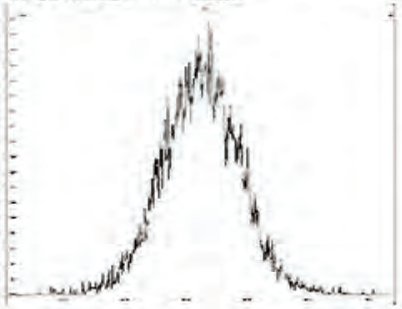
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, June 05, 2023 10:07:15 Pacific Daylight Time

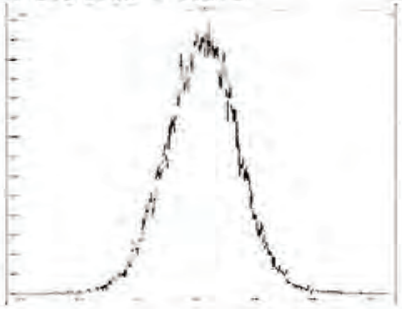
M 292.9824 R 10417



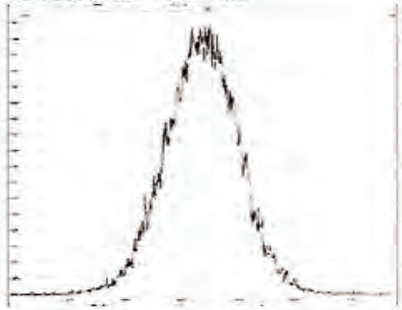
M 304.9824 R 10682



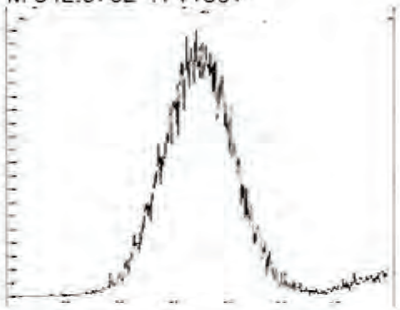
M 318.9792 R 10872



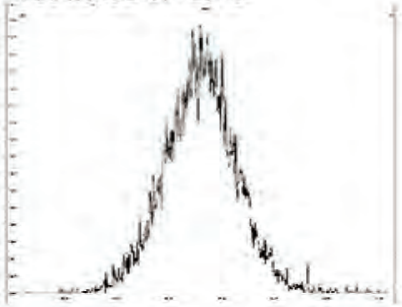
M 330.9792 R 11106



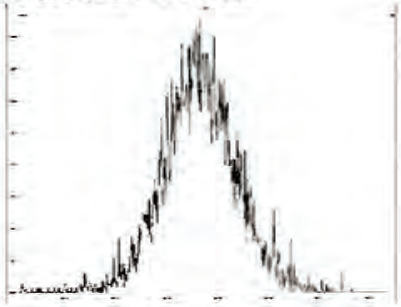
M 342.9792 R 11361



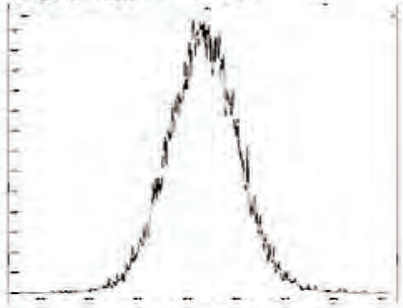
M 354.9792 R 12015



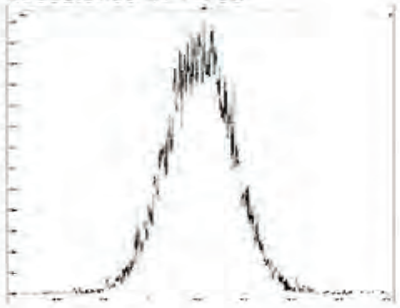
M 366.9792 R 11736



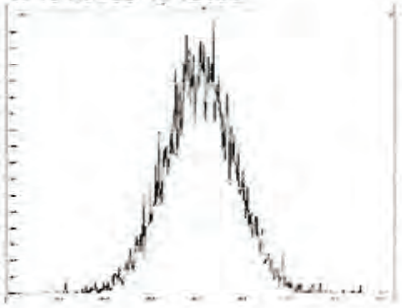
M 380.9760 R 11790



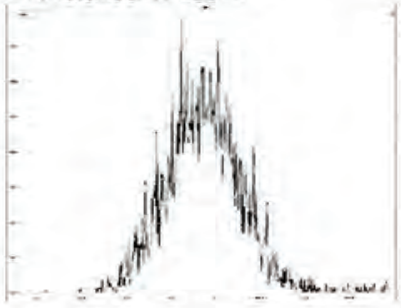
M 392.9760 R 11792



M 404.9760 R 12022



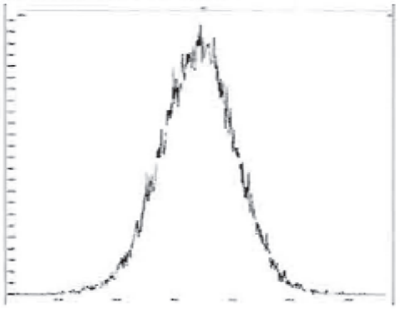
M 416.9760 R 13514



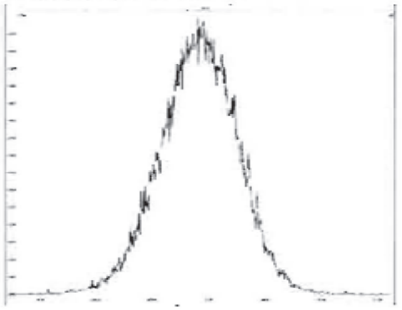
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, June 05, 2023 10:08:00 Pacific Daylight Time

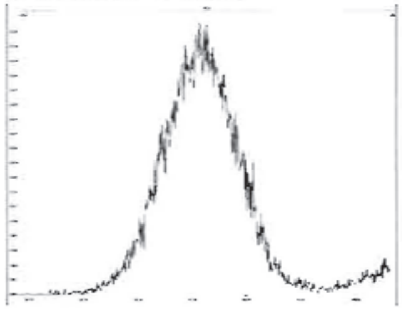
M 318.9792 R 10774



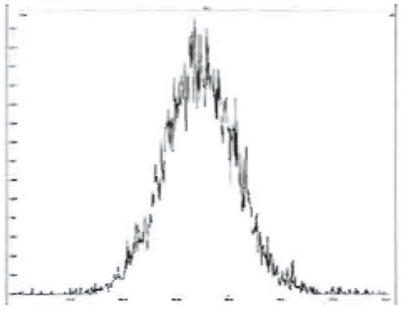
M 330.9792 R 10242



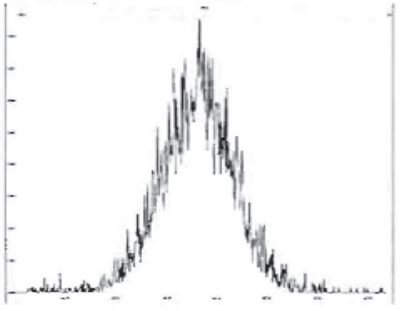
M 342.9792 R 10826



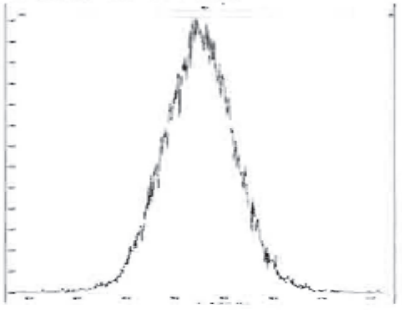
M 354.9792 R 11163



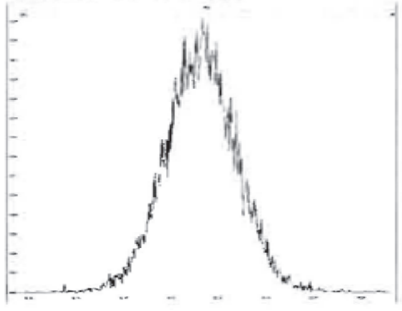
M 366.9792 R 11628



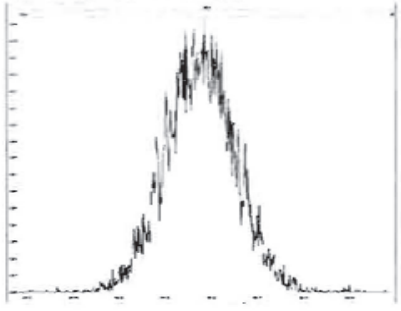
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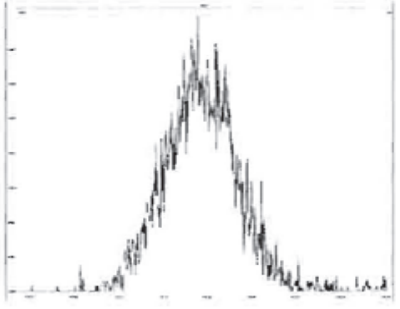
M 392.9760 R 11683



M 404.9760 R 12499



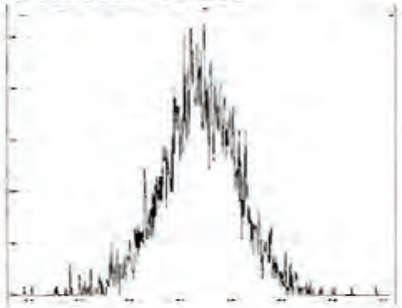
M 416.9760 R 13160



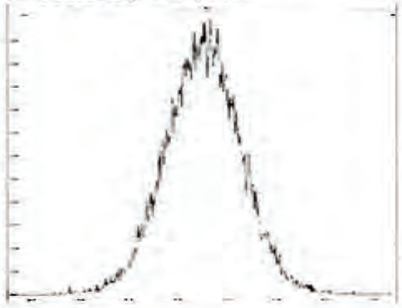
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, June 05, 2023 10:08:27 Pacific Daylight Time

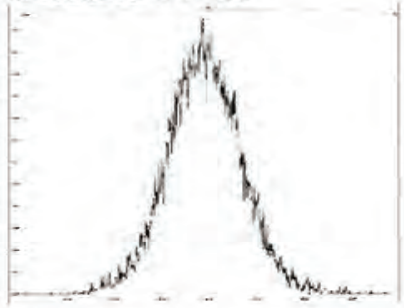
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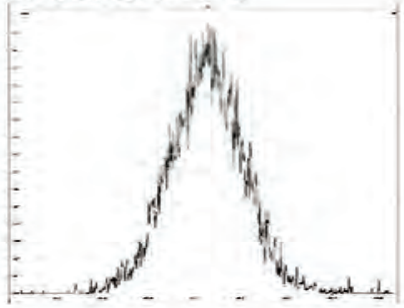
M 380.9760 R 10504



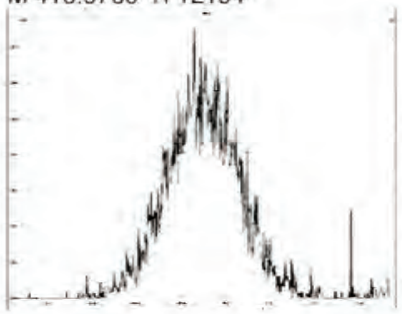
M 392.9760 R 11109



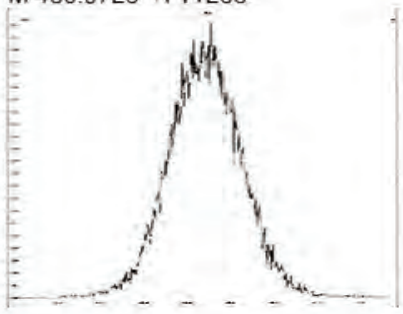
M 404.9760 R 11416



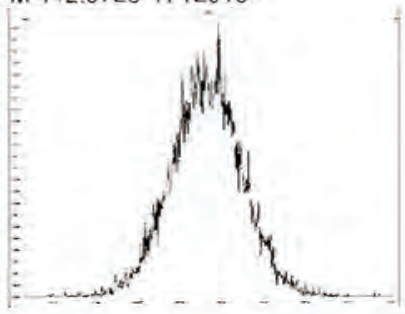
M 416.9760 R 12194



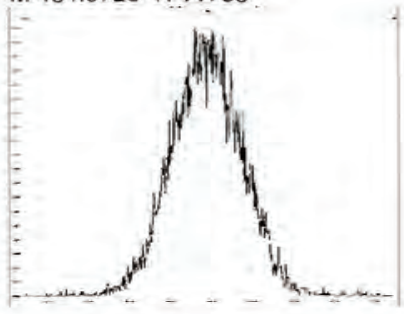
M 430.9728 R 11263



M 442.9728 R 12019



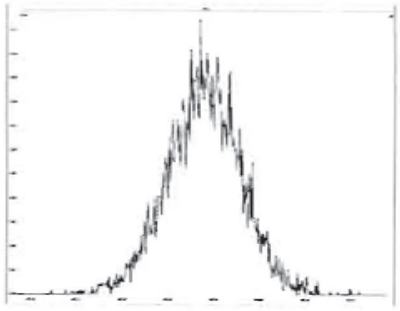
M 454.9728 R 11795



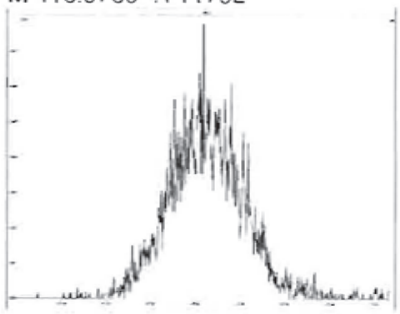
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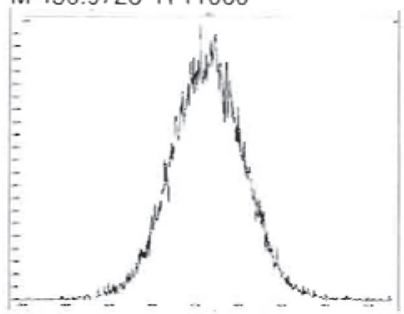
M 404.9760 R 11059



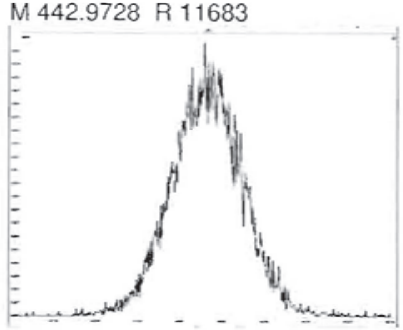
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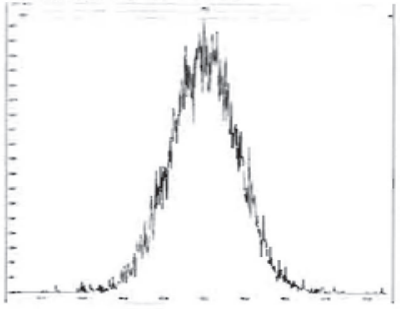
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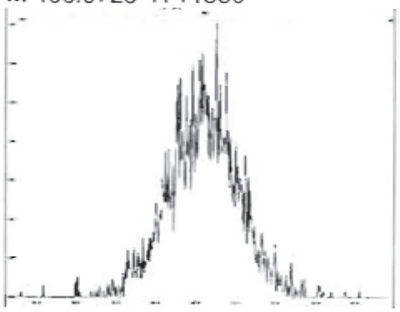
M 442.9728 R 11683



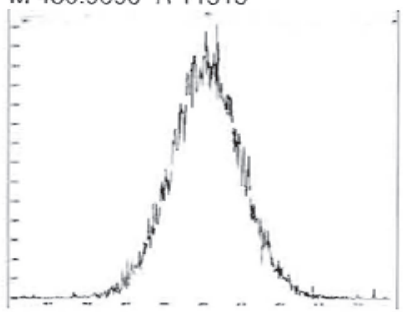
M 454.9728 R 11736



M 466.9728 R 11850



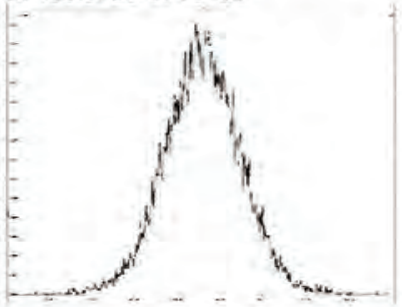
M 480.9696 R 11313



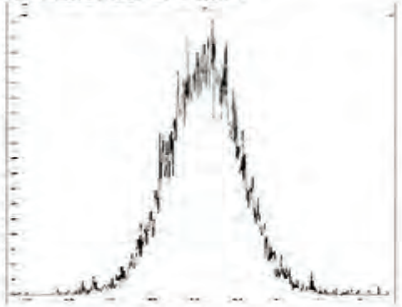
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, June 05, 2023 10:09:40 Pacific Daylight Time

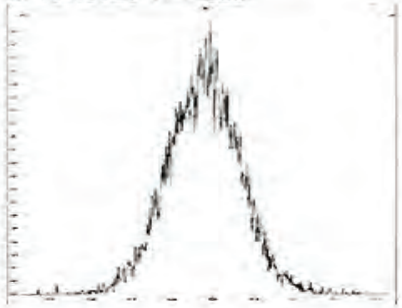
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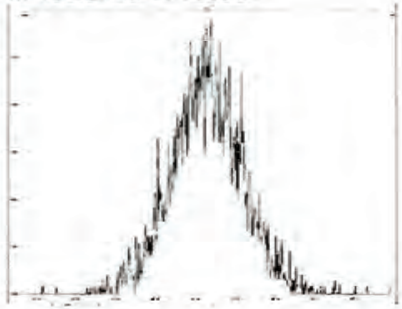
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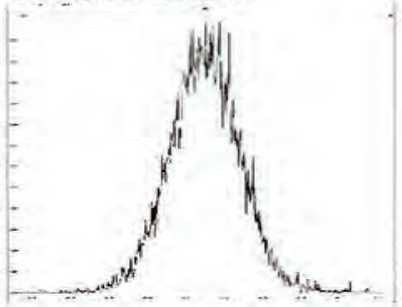
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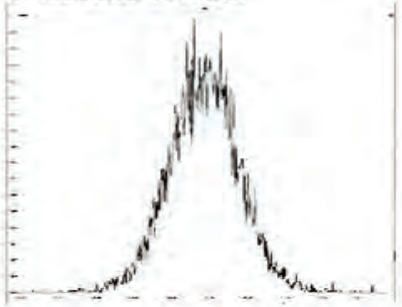
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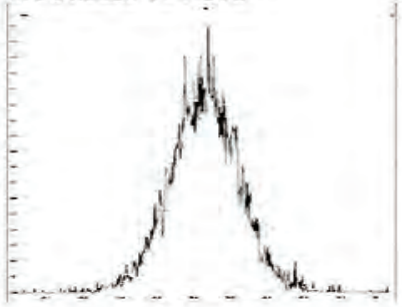
M 480.9696 R 11213



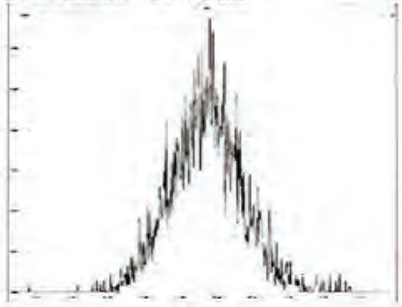
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M 504.9696 R 11573



M 516.9697 R 11623



Enthalpy Analytical EDH VG-12

Dataset: Untitled

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Printed: Tuesday, June 06, 2023 08:27:17 Pacific Daylight Time

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R1_1, Date: 05-Jun-2023, Time: 10:10:45, ID: ST230605R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

	#	Name	RT
1	1	1,3,6,8-TCDD (First)	23.53
2	2	1,2,8,9-TCDD (Last)	27.59
3	3	1,2,4,7,9-PeCDD (First)	28.96
4	4	1,2,3,8,9-PeCDD (Last)	31.35
5	5	1,2,4,6,7,9-HxCDD (First)	32.63
6	6	1,2,3,7,8,9-HxCDD (Last)	34.76
7	7	1,2,3,4,6,7,9-HpCDD (First)	37.24
8	8	1,2,3,4,6,7,8-HpCDD (Last)	38.11
9	9	1,3,6,8-TCDF (First)	21.51
10	10	1,2,8,9-TCDF (Last)	27.88
11	11	1,3,4,6,8-PeCDF (First)	27.48
12	12	1,2,3,8,9-PeCDF (Last)	31.70
13	13	1,2,3,4,6,8-HxCDF (First)	32.10
14	14	1,2,3,7,8,9-HxCDF (Last)	35.30
15	15	1,2,3,4,6,7,8-HpCDF (First)	36.92
16	16	1,2,3,4,7,8,9-HpCDF (Last)	38.82

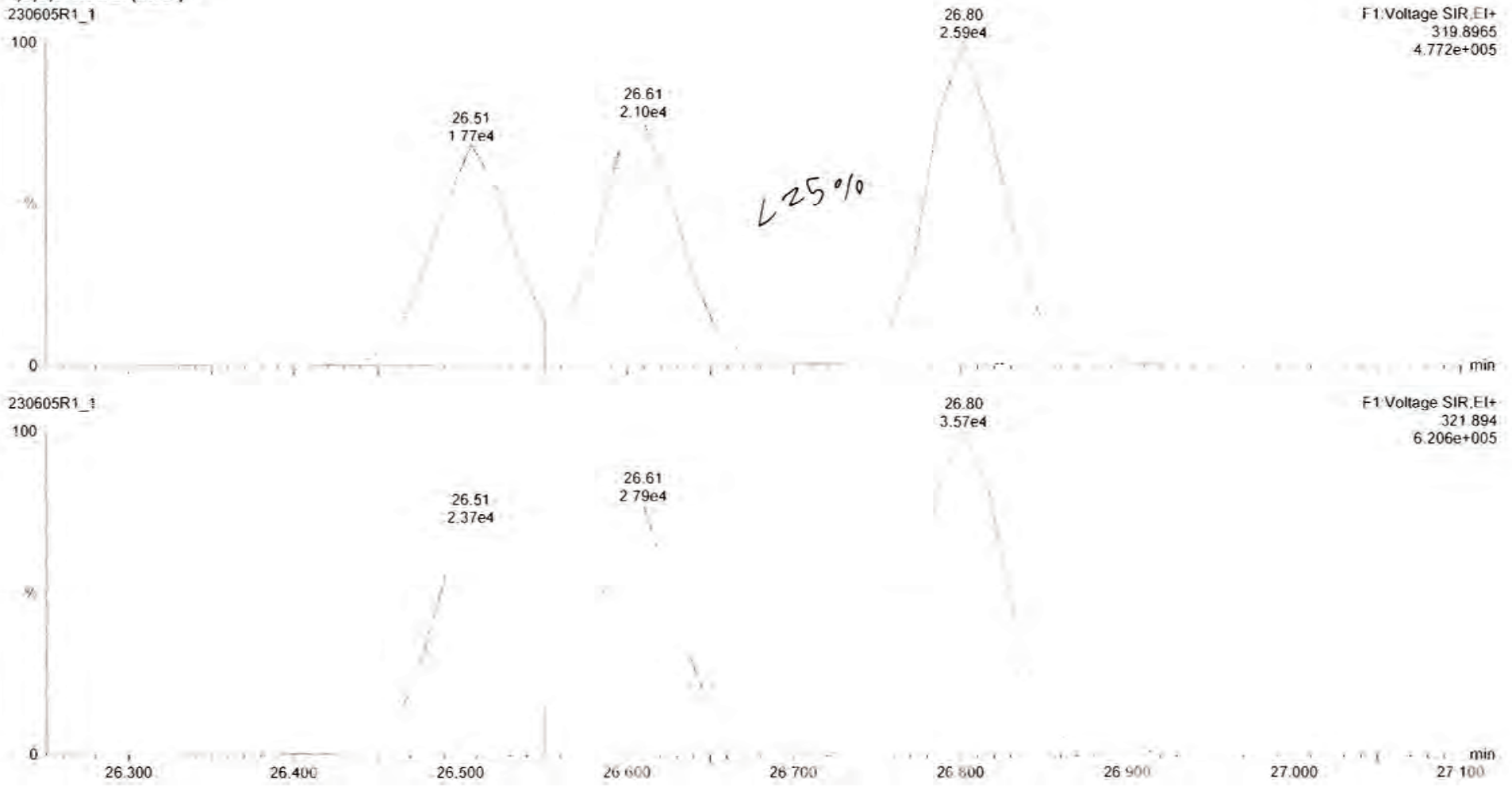
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Printed: Tuesday, June 06, 2023 08:27:17 Pacific Daylight Time

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R1_1, Date: 05-Jun-2023, Time: 10:10:45, ID: ST230605R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

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

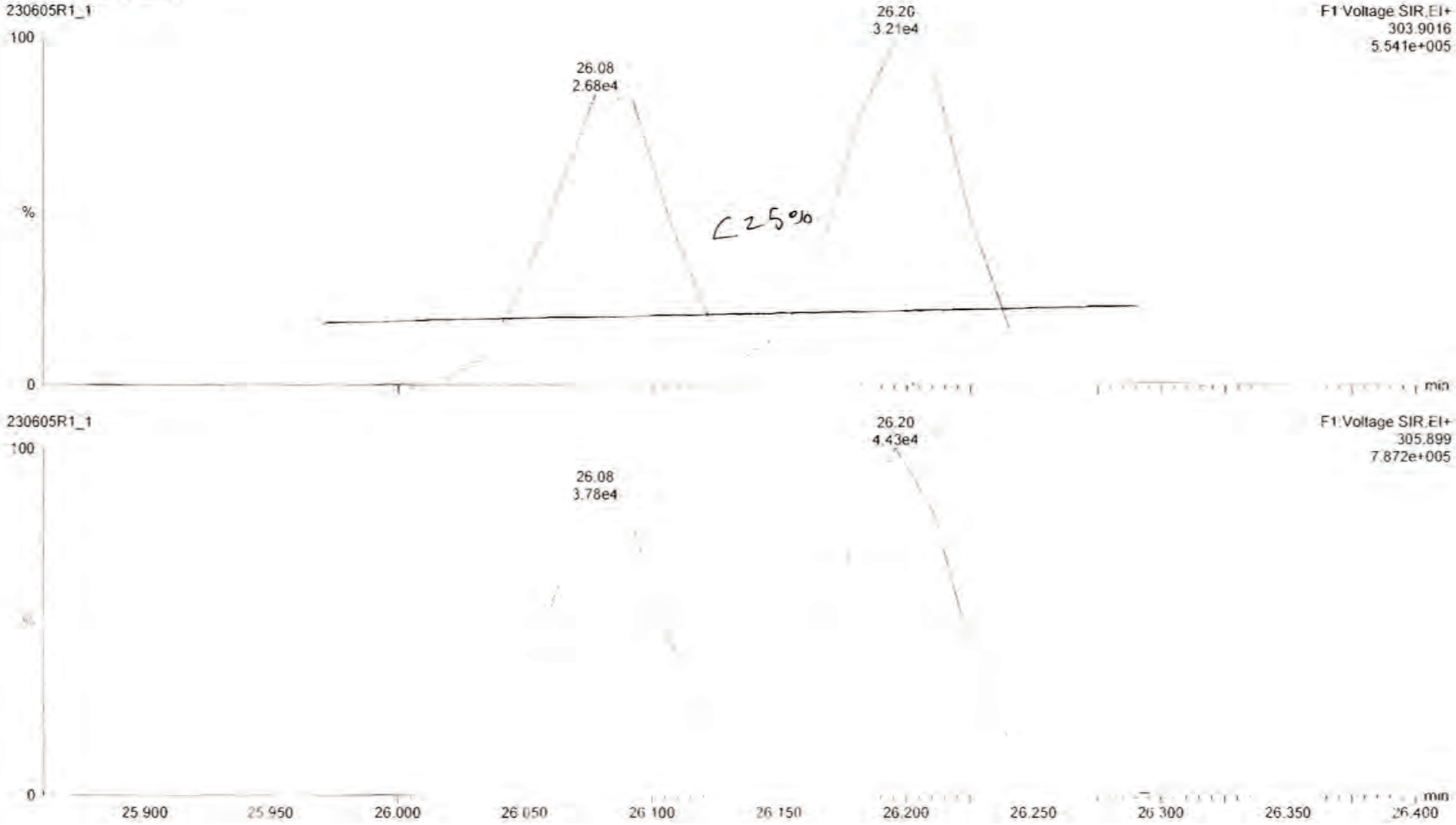


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Name: 230605R1_1, Date: 05-Jun-2023, Time: 10:10:45, ID: ST230605R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

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



Enthalpy Analytical EDH VG-12

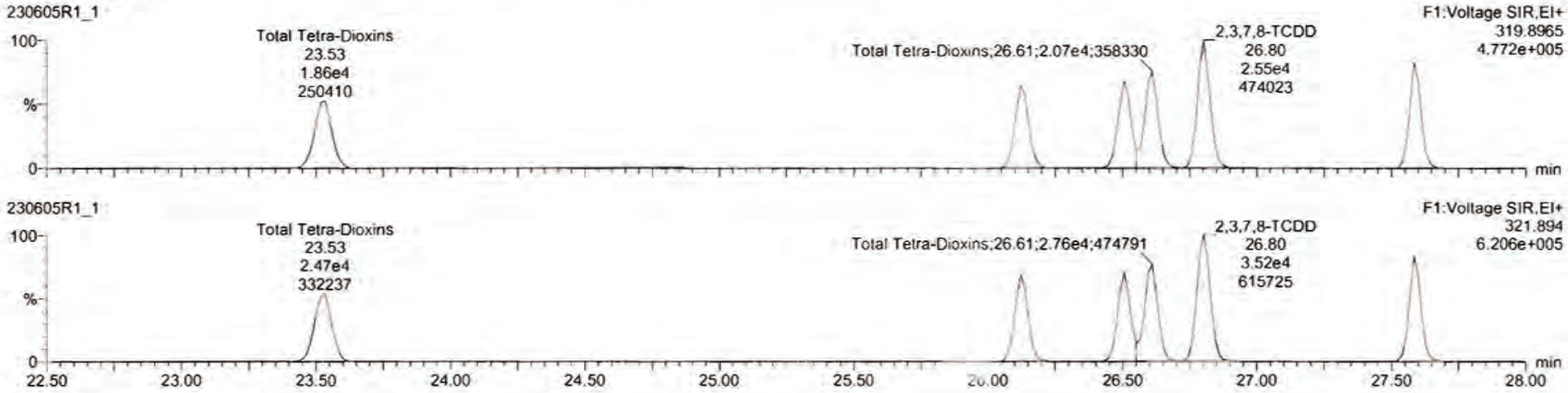
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Printed: Tuesday, June 06, 2023 08:11:38 Pacific Daylight Time

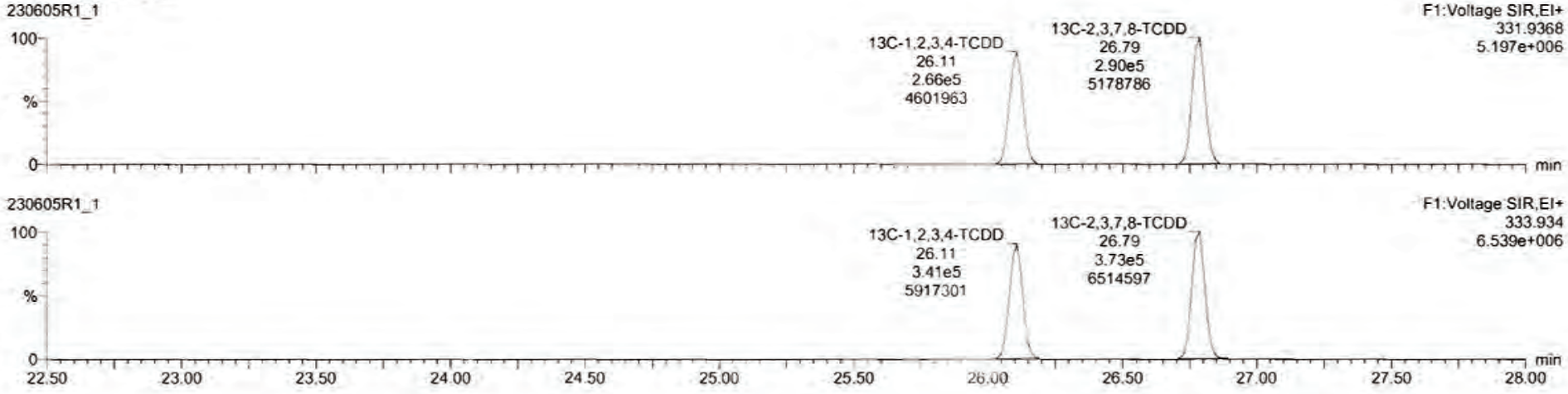
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Name: 230605R1_1, Date: 05-Jun-2023, Time: 10:10:45, ID: ST230605R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

2,3,7,8-TCDD



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

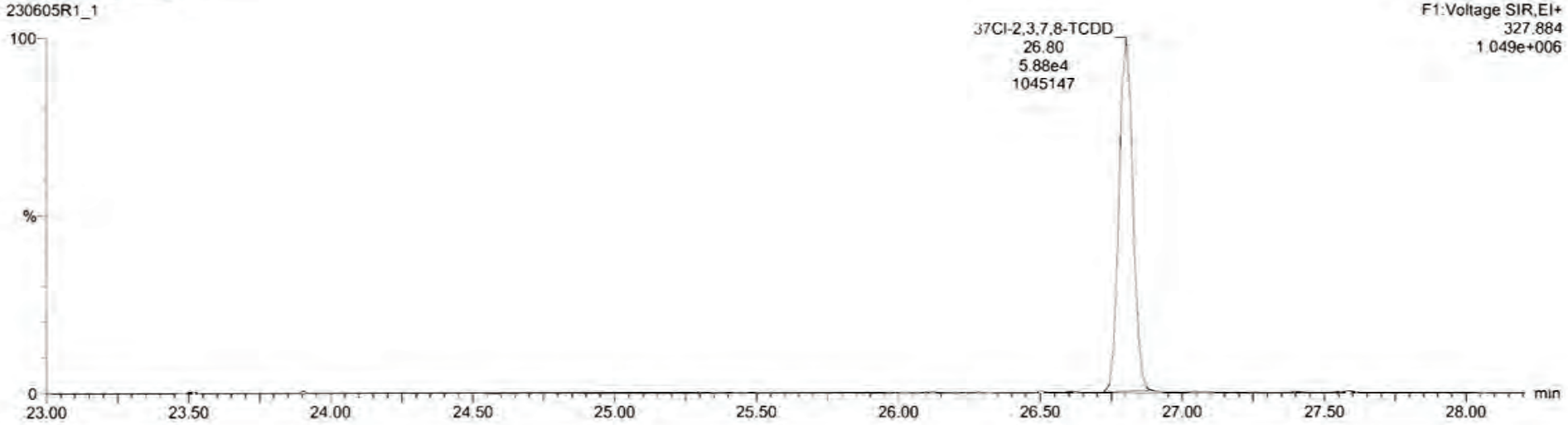


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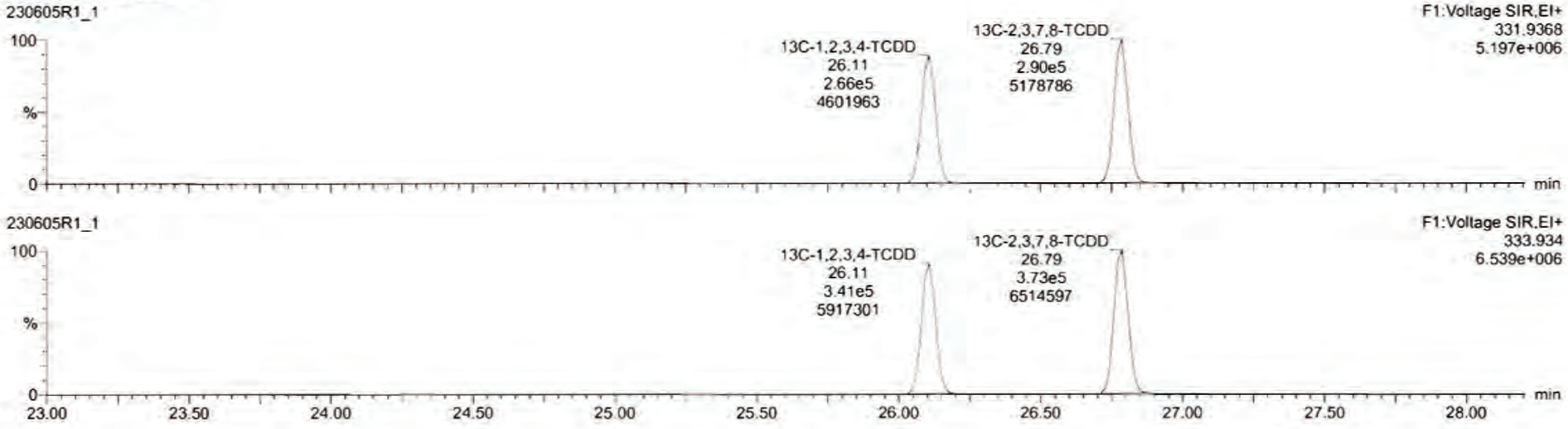
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37Cl-2,3,7,8-TCDD



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

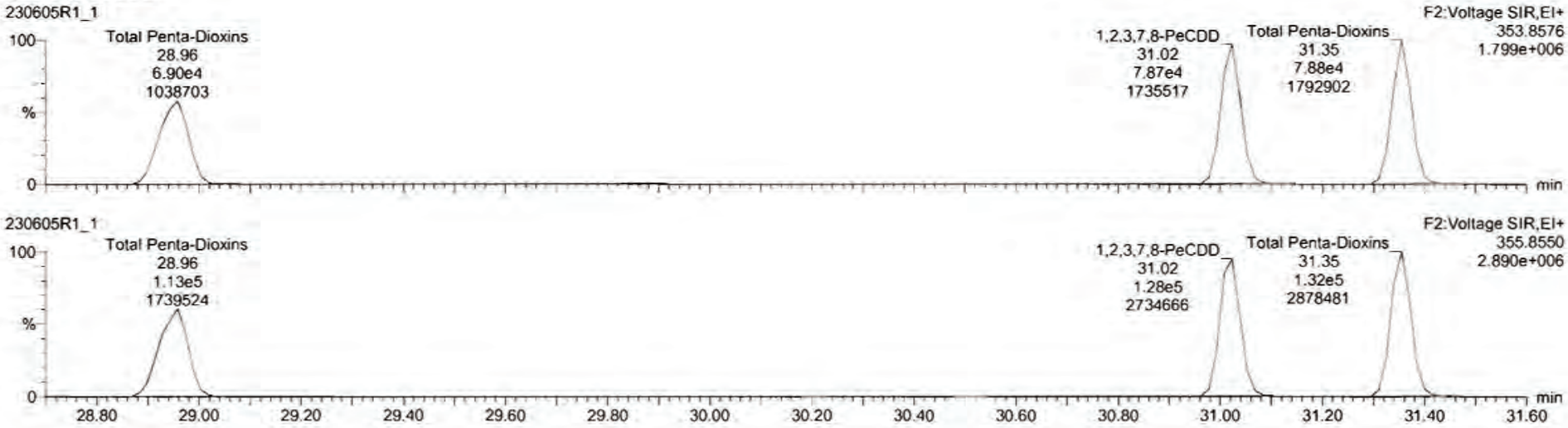


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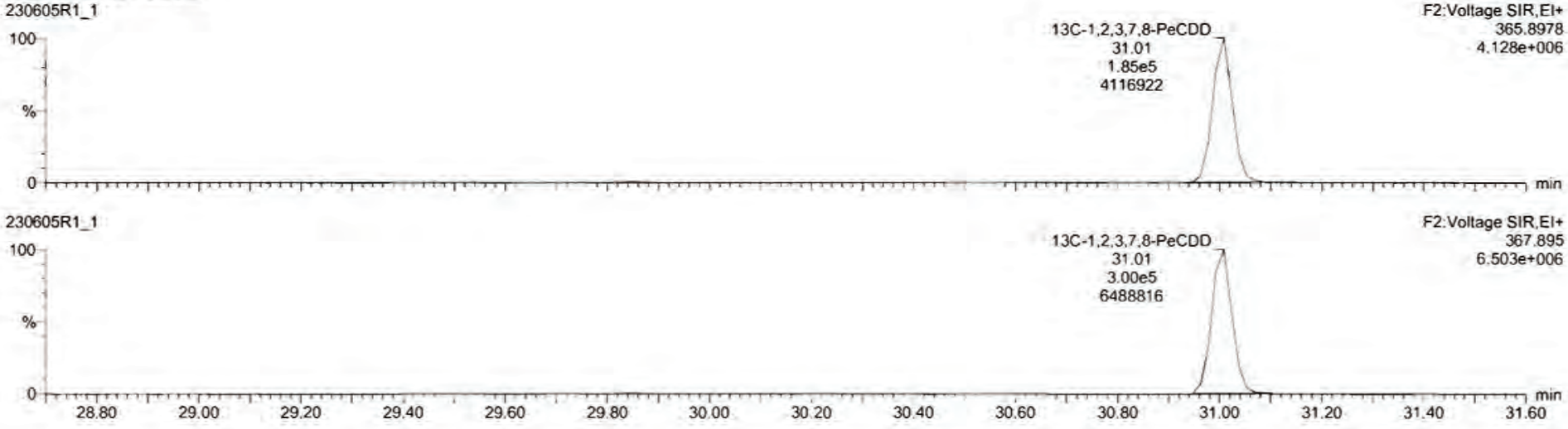
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Printed: Tuesday, June 06, 2023 08:11:38 Pacific Daylight Time

Name: 230605R1_1, Date: 05-Jun-2023, Time: 10:10:45, ID: ST230605R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,2,3,7,8-PeCDD



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

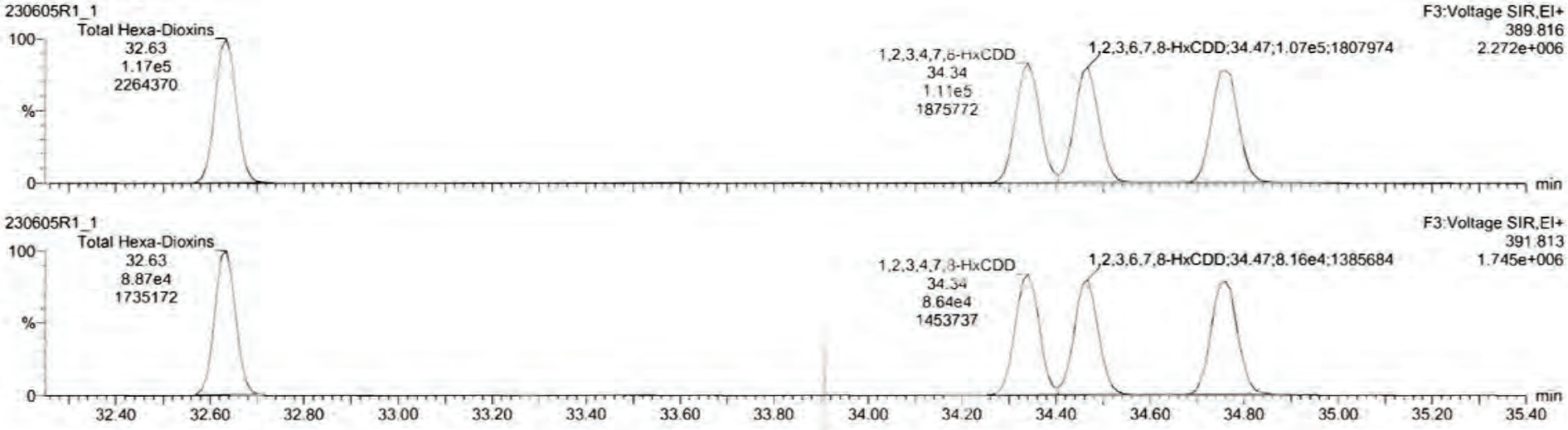


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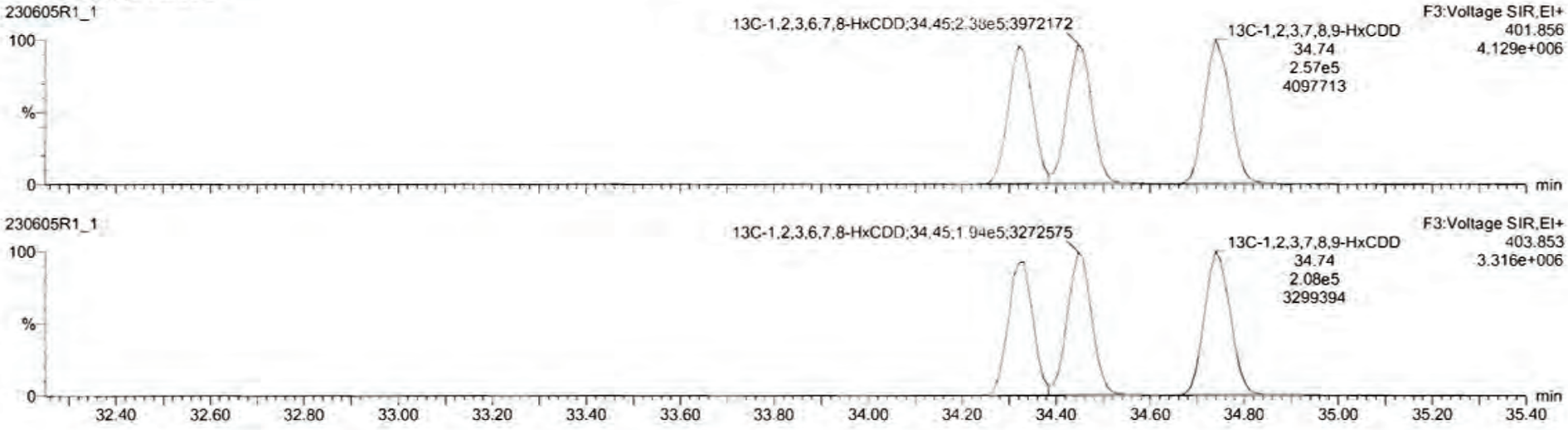
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1,2,3,4,7,8-HxCDD



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

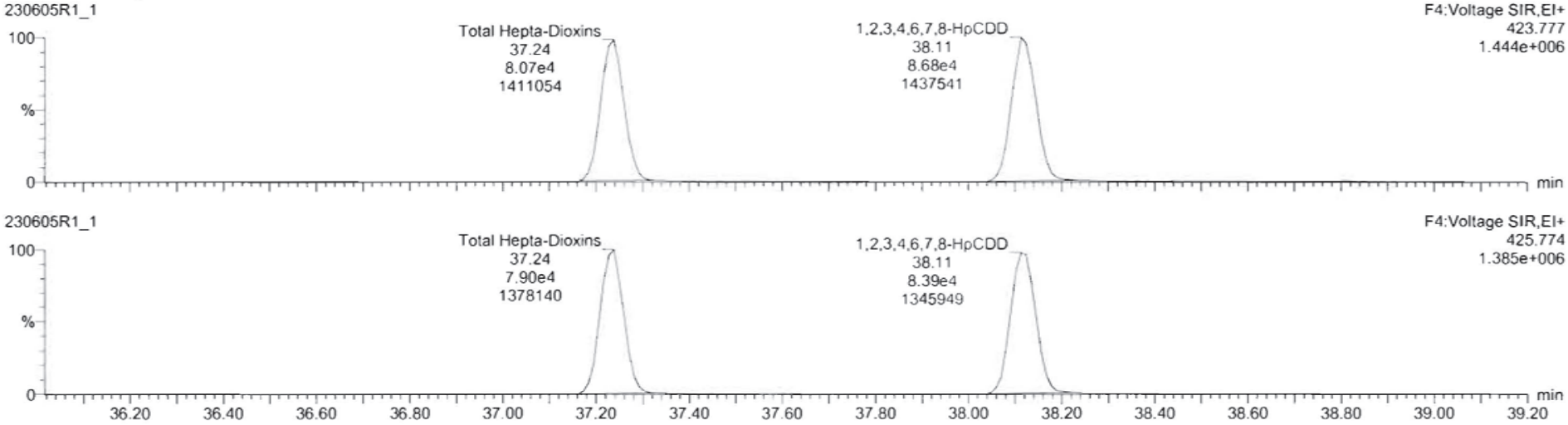


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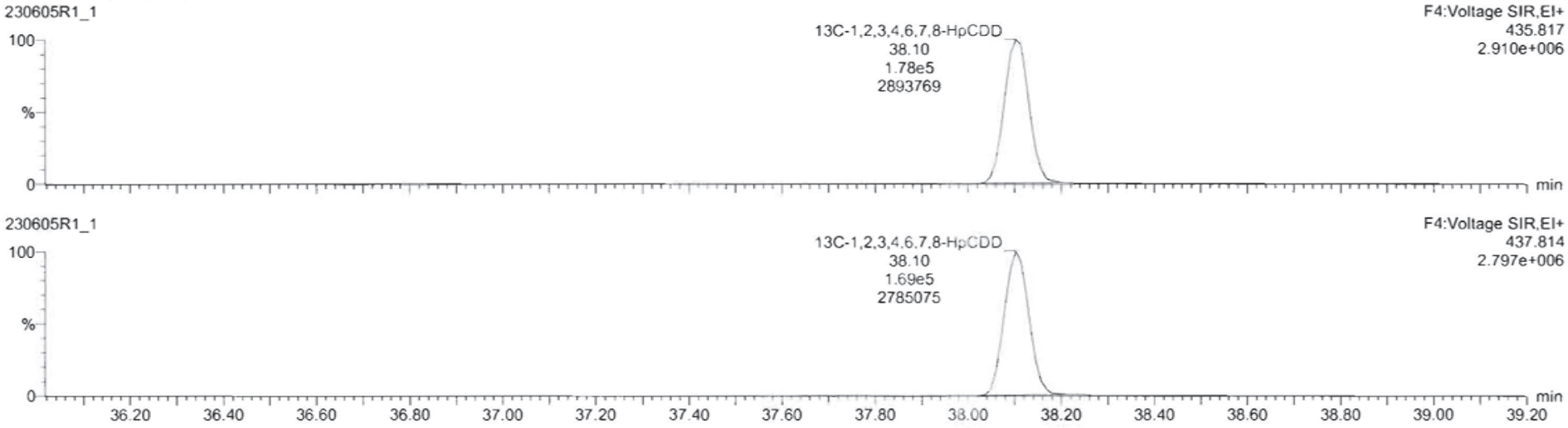
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1,2,3,4,6,7,8-HpCDD



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

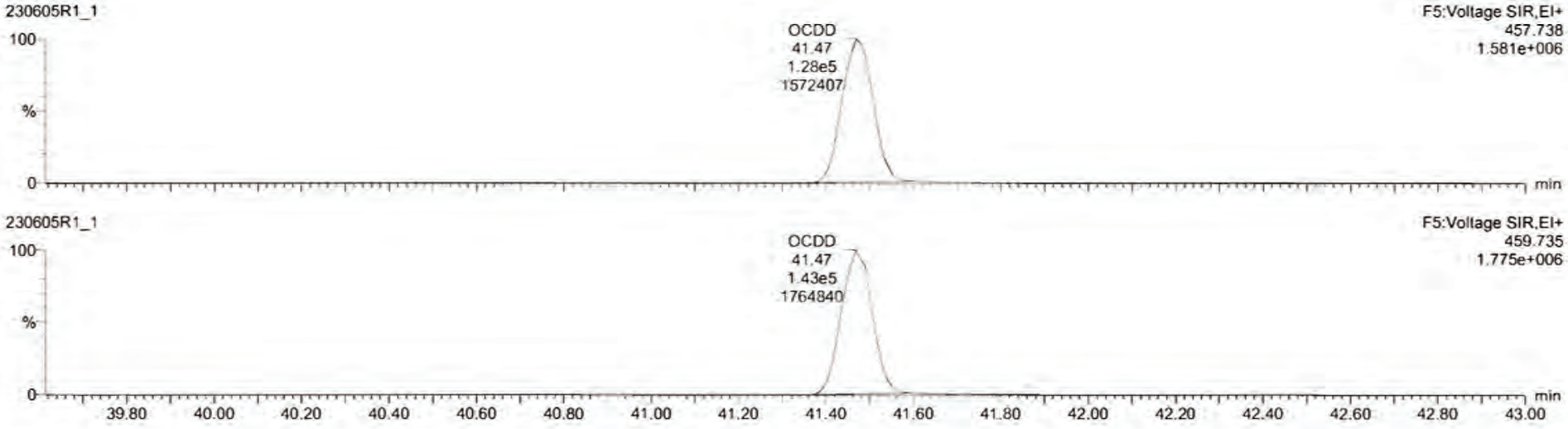


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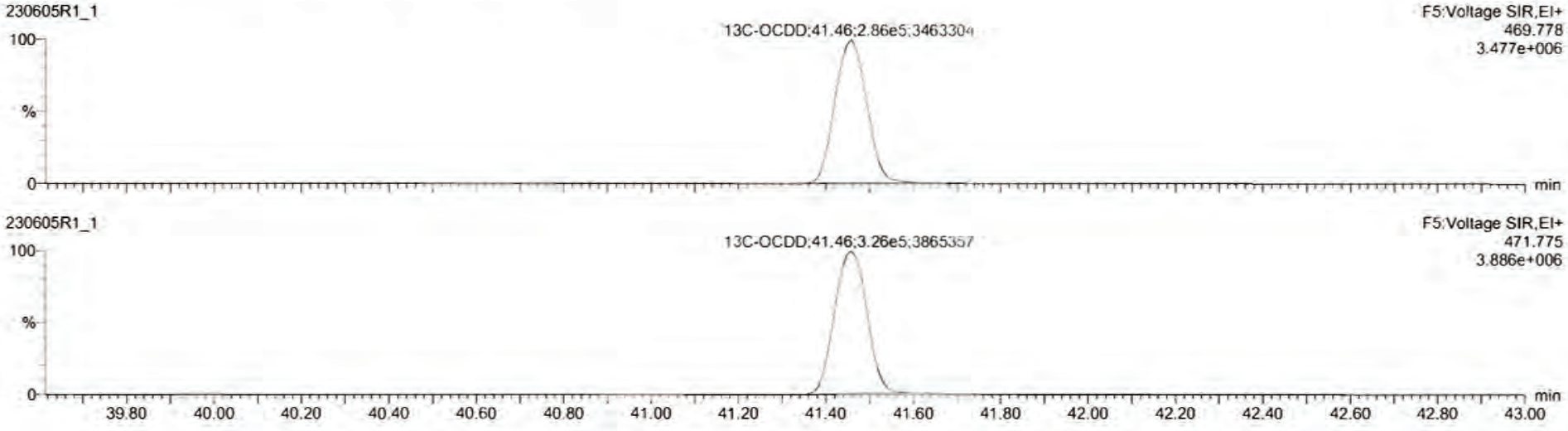
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Name: 230605R1_1, Date: 05-Jun-2023, Time: 10:10:45, ID: ST230605R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

OCDD



13C-OCDD

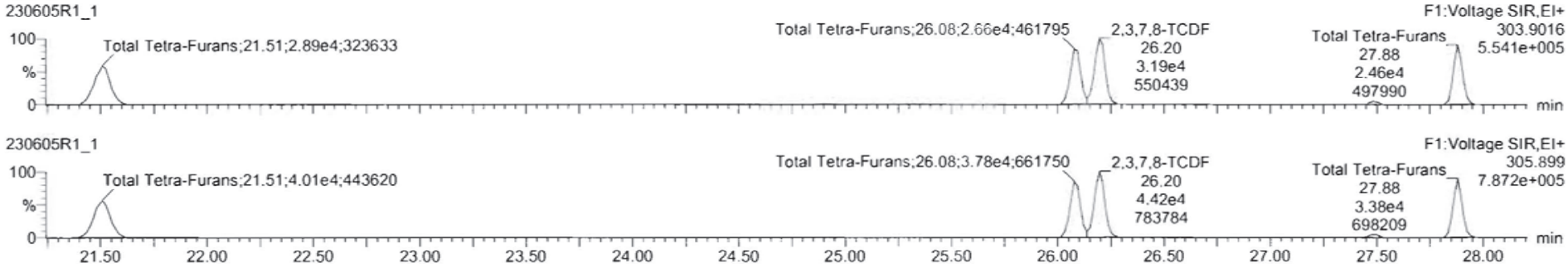


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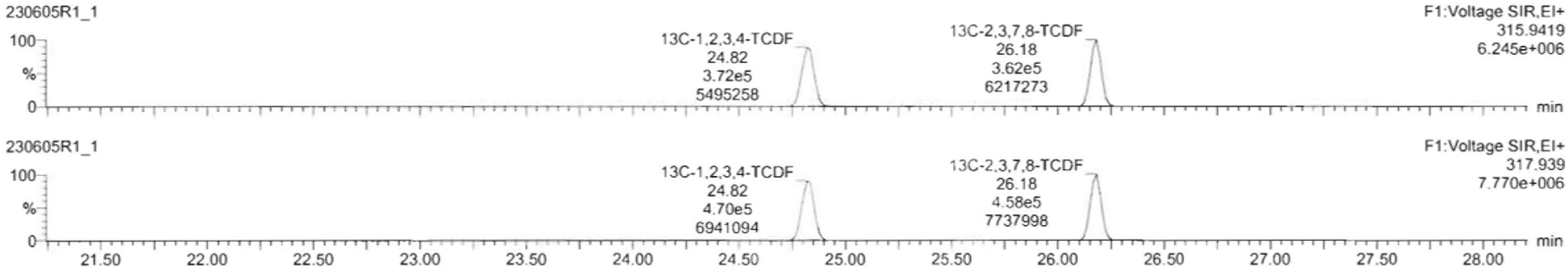
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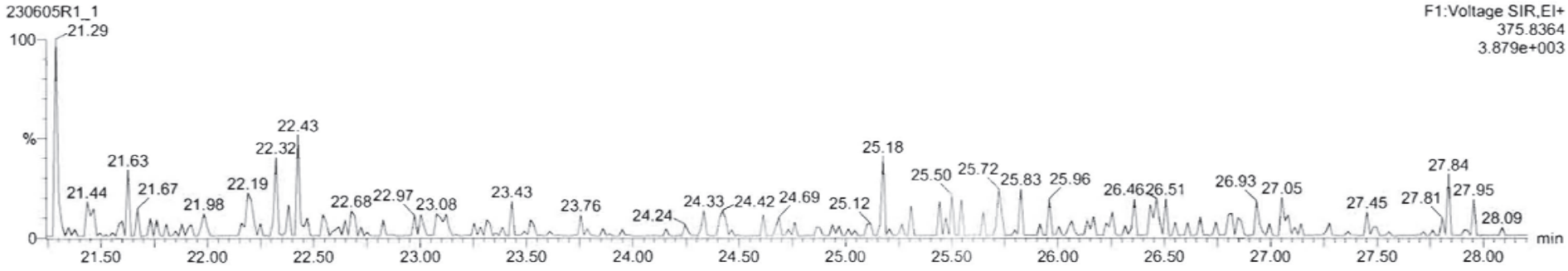
2,3,7,8-TCDF



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



DPE1

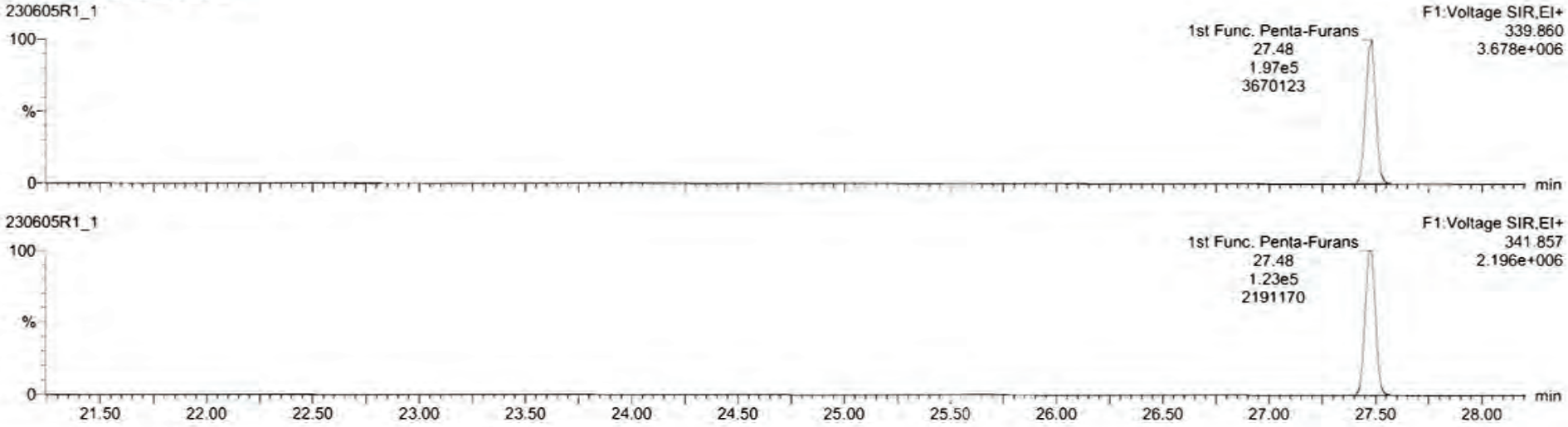


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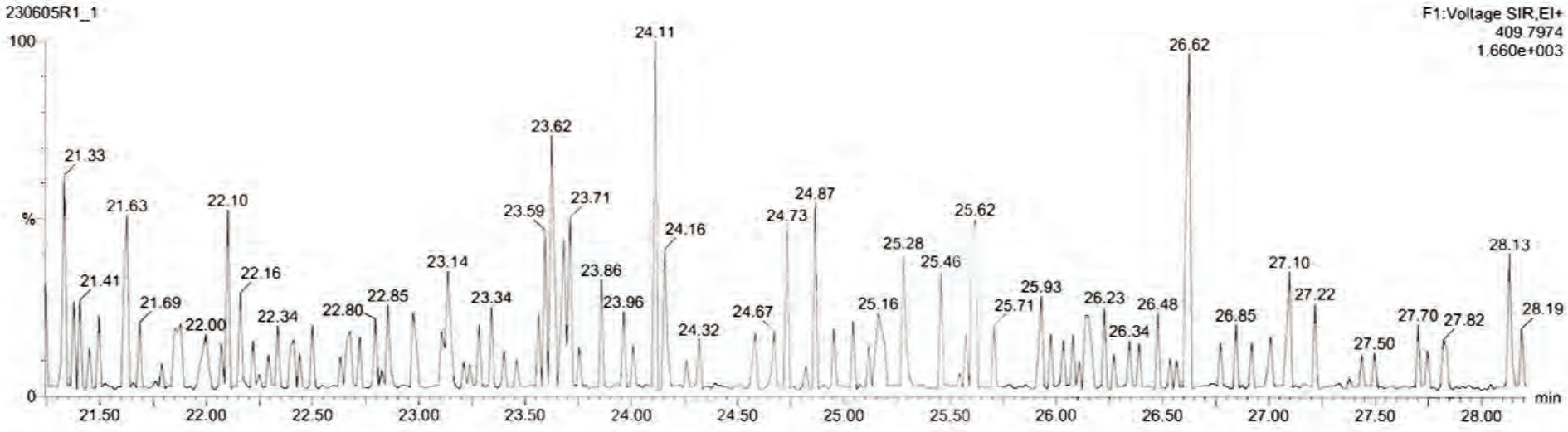
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1st Func. Penta-Furans



DPE6

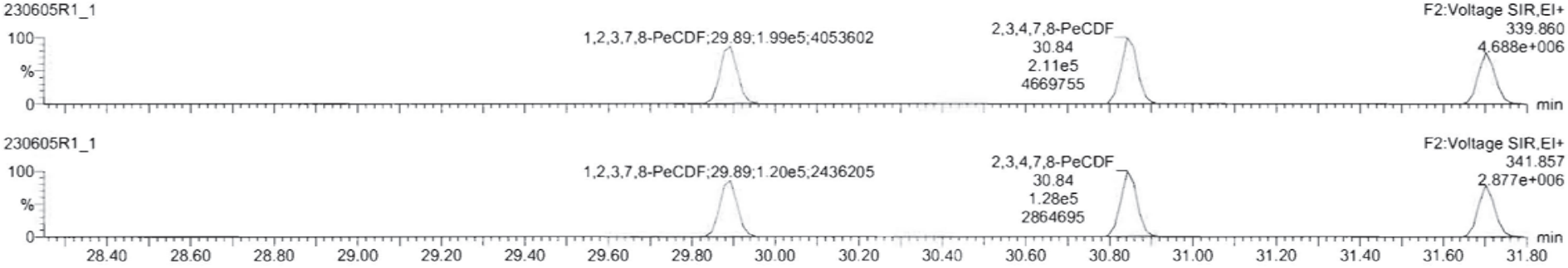


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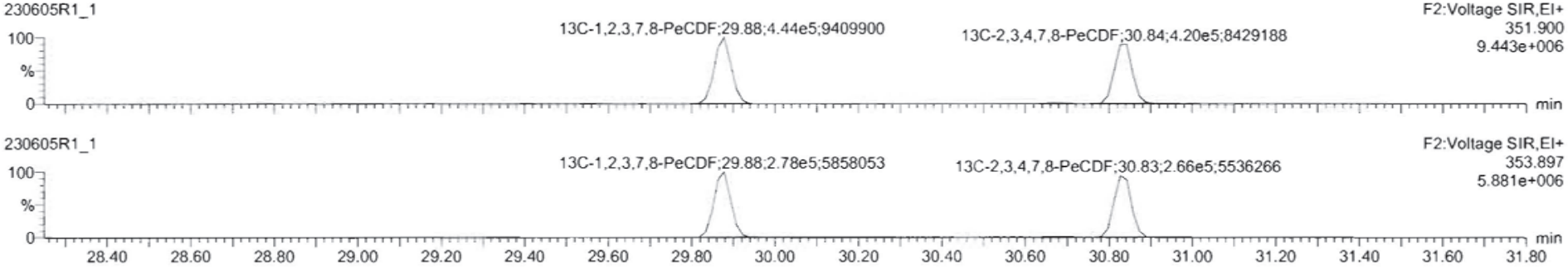
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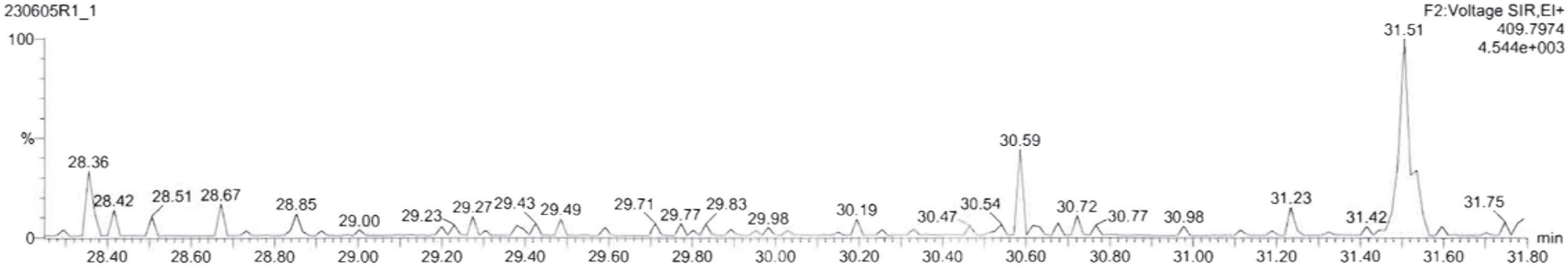
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DPE2

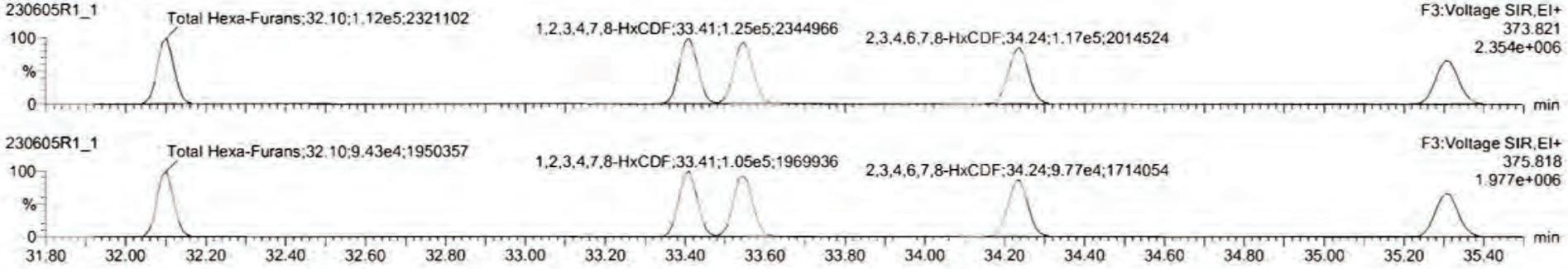


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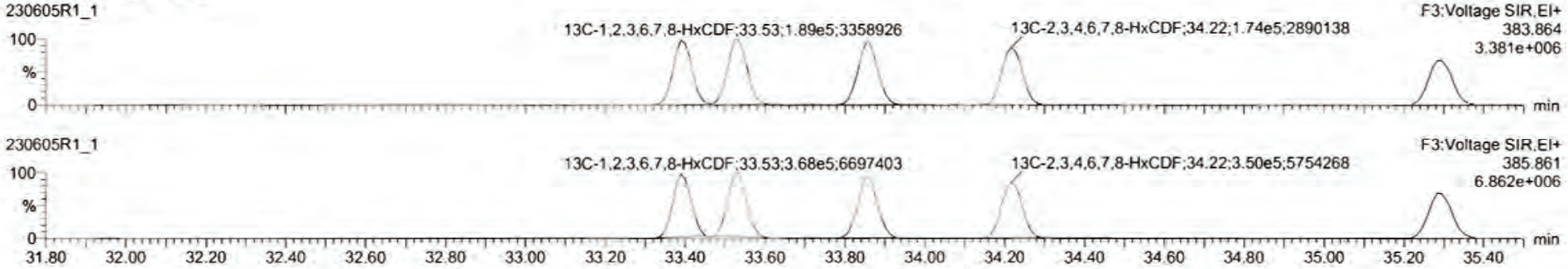
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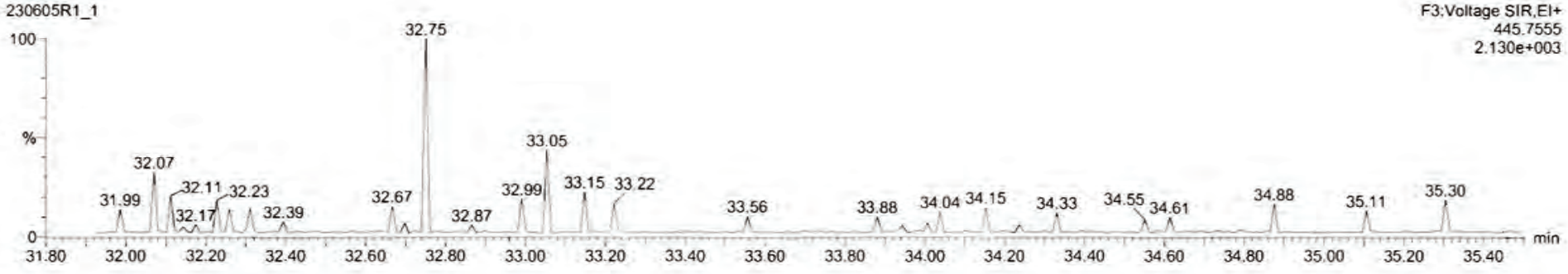
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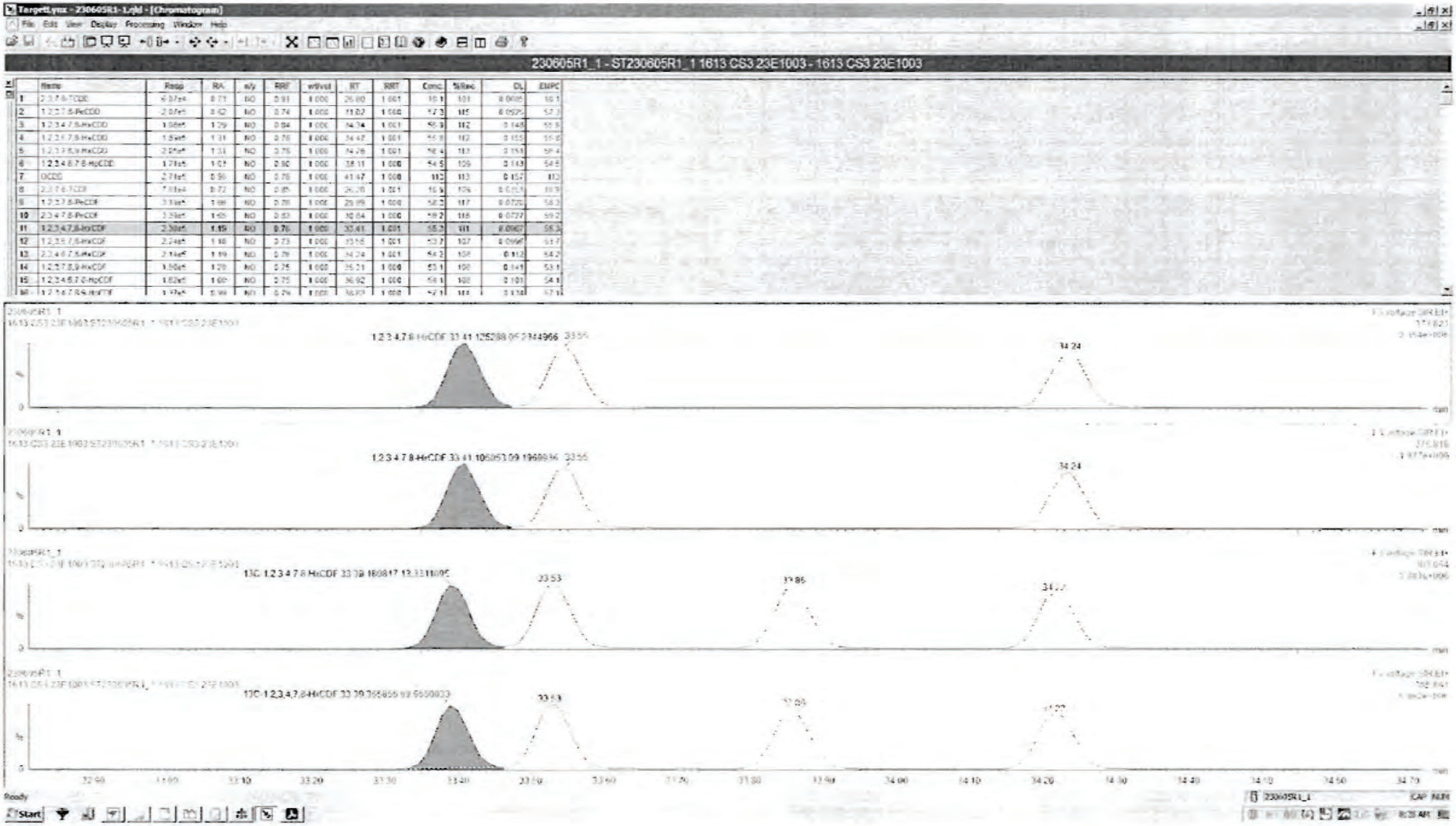


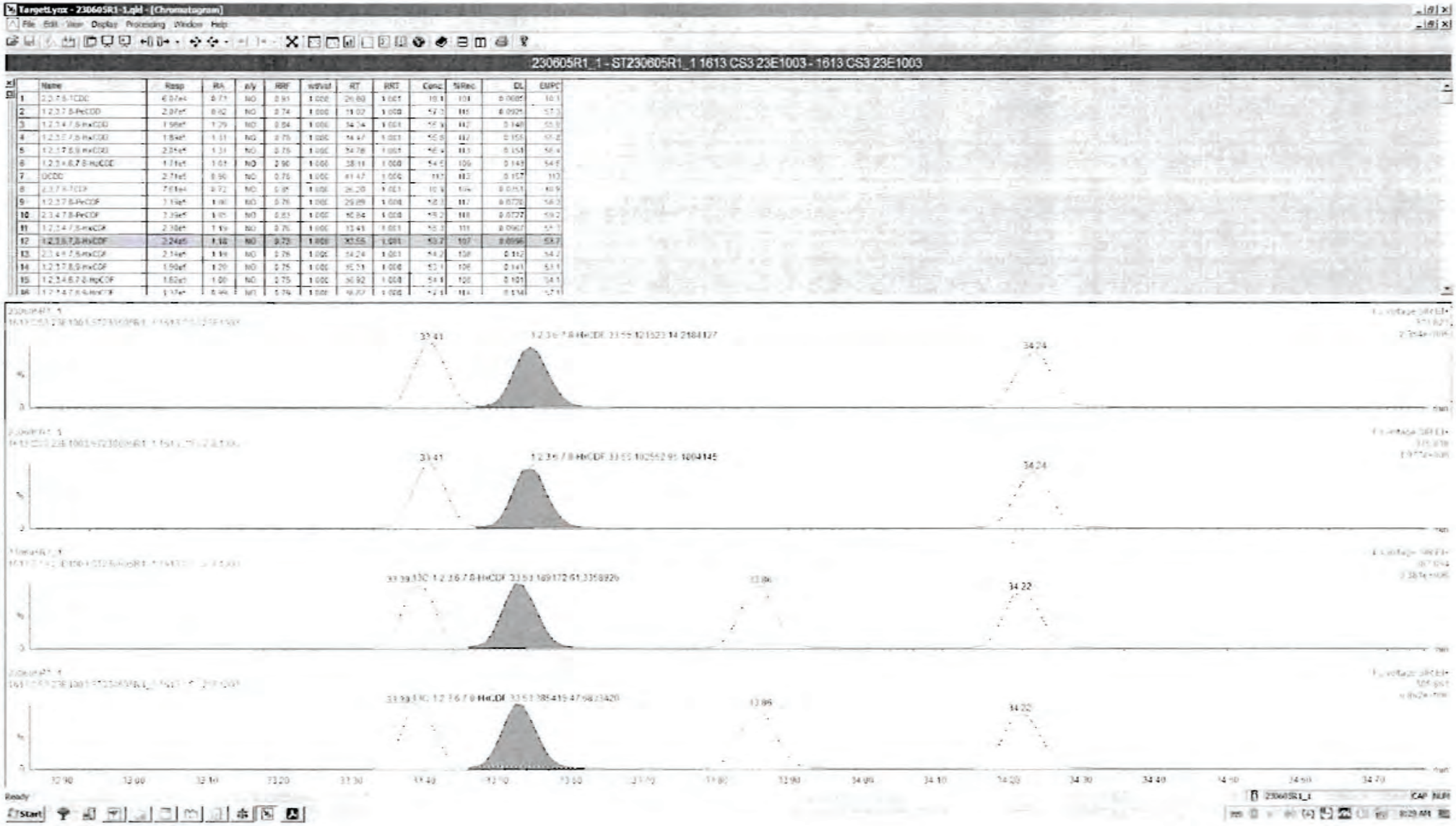
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DPE3




230605R1_1 - ST230605R1_1 1613 CS3 23E1003 - 1613 CS3 23E1003
1,2,3,4,7,8-HxCDF 33.41
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TargetLynx - 230605R1-1.qld - [Chromatogram]
File Edit View Display Processing Window Help
230605R1_1 - ST230605R1_1 1613 CS3 23E1003 - 1613 CS3 23E1003
Name
Resp
RA
A/y
RRF
wt/vol
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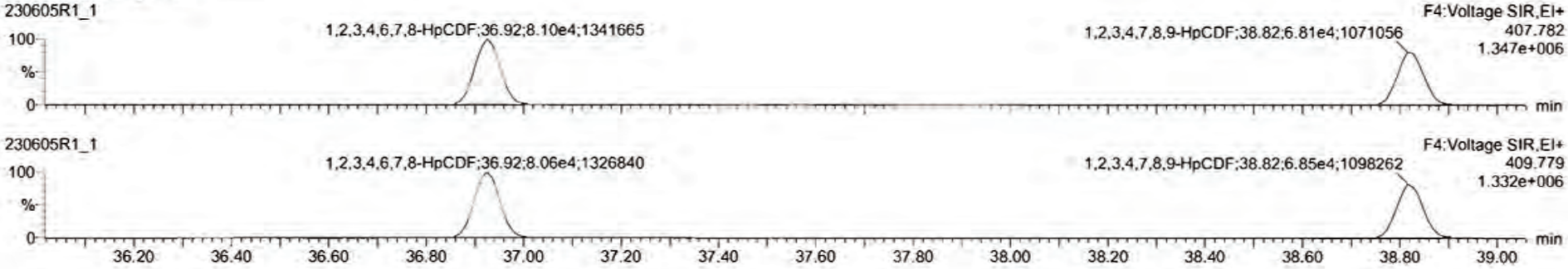
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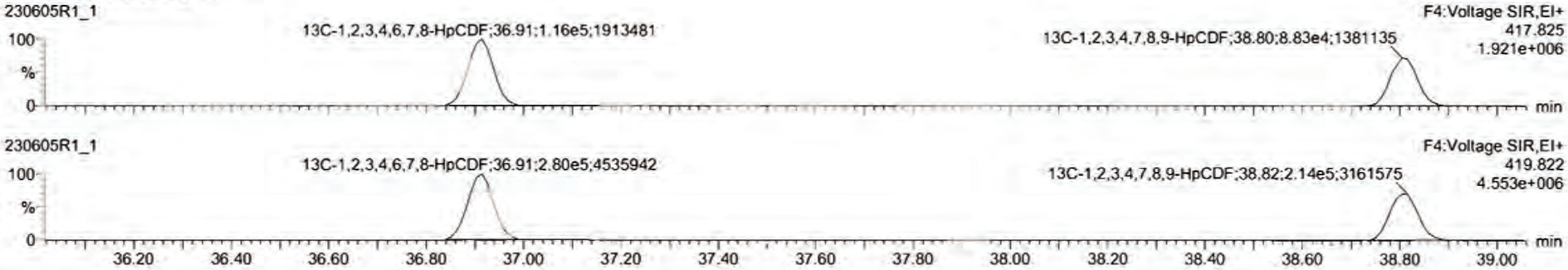
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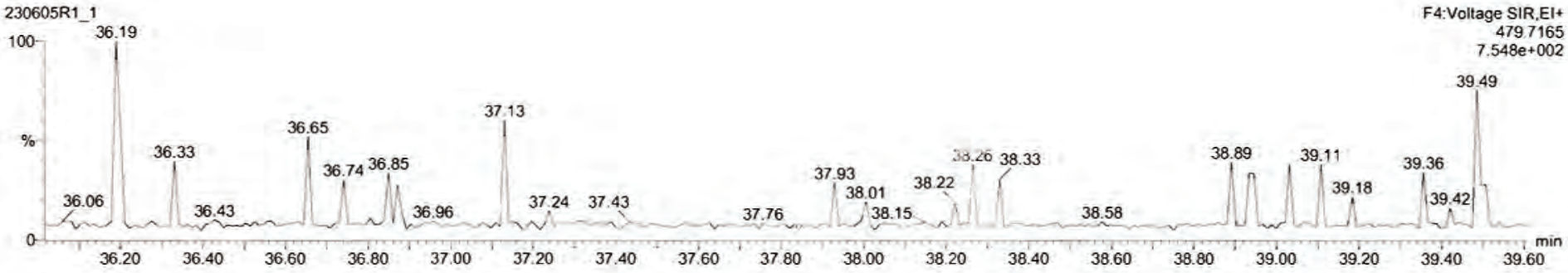
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DPE4

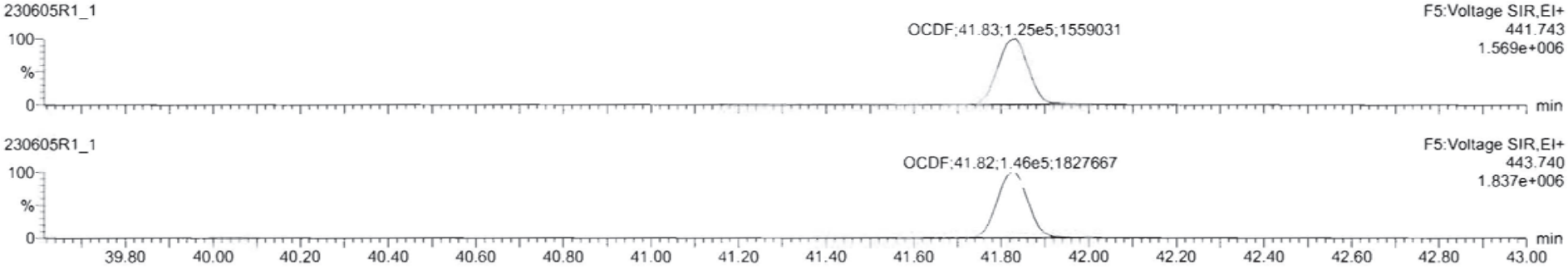


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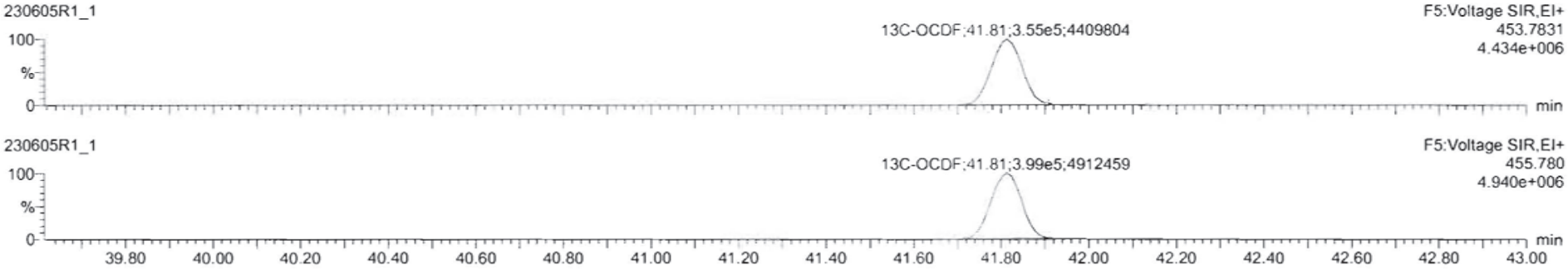
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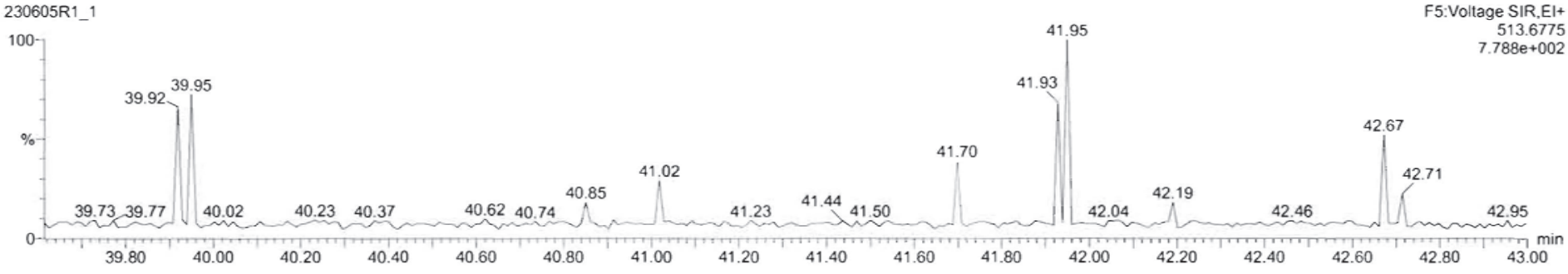
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13C-OCDF



DPE5

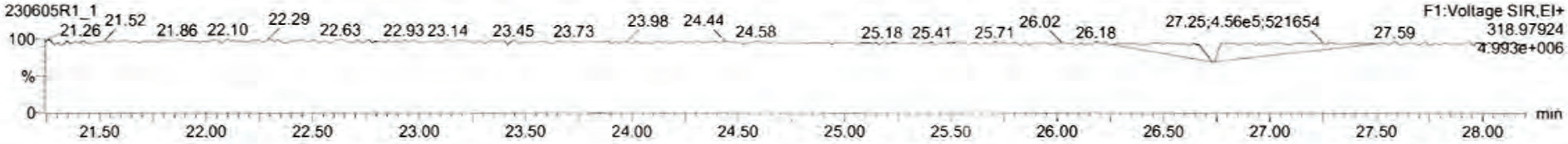


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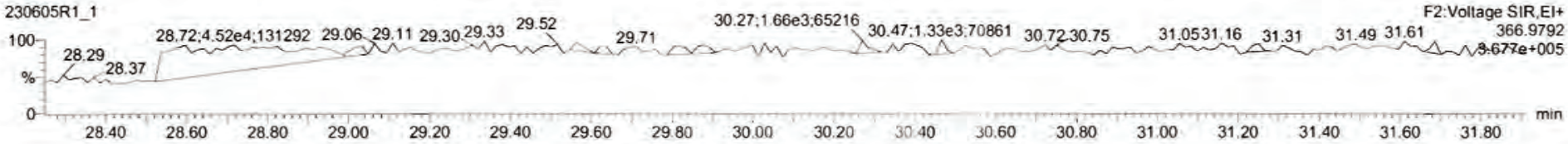
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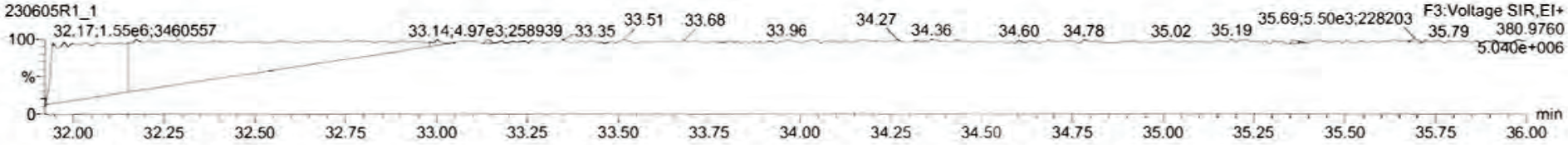
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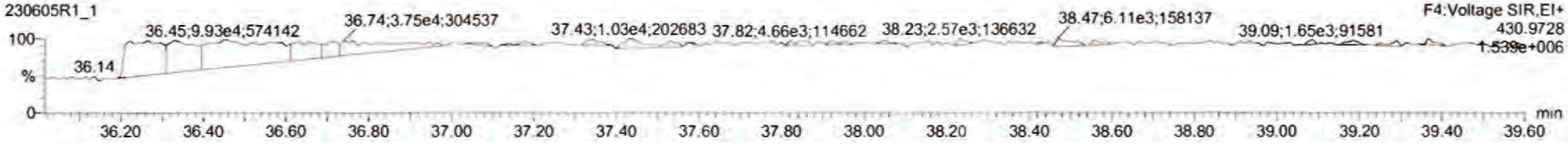
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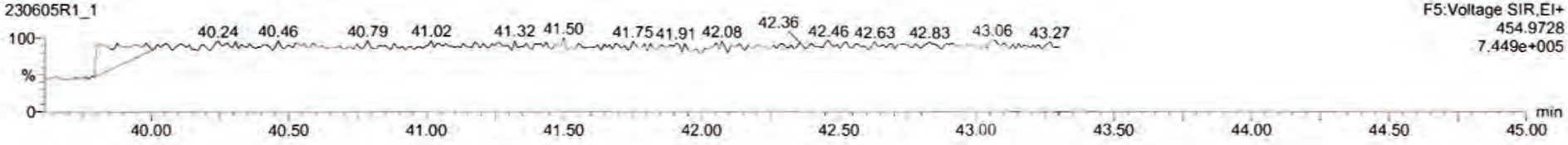
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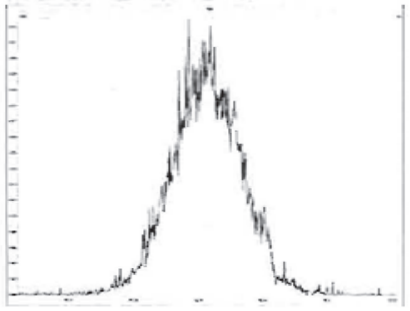


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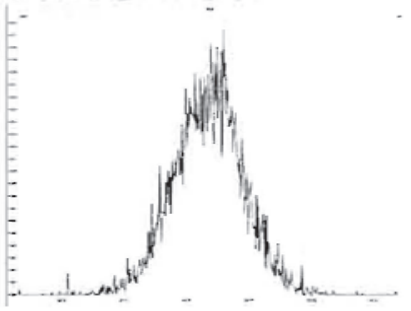


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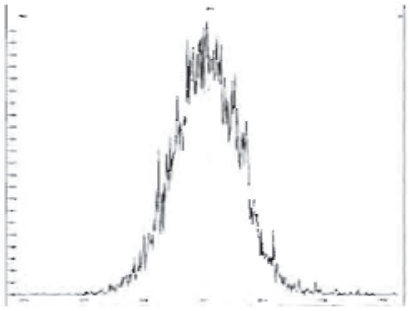
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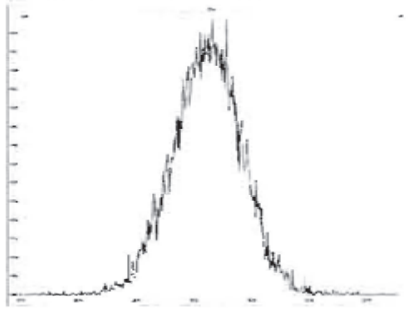
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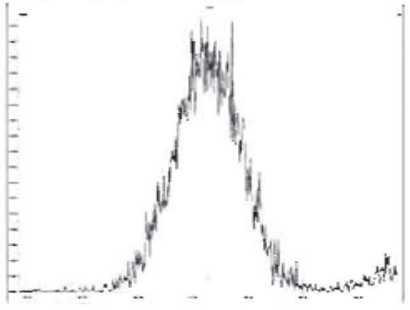
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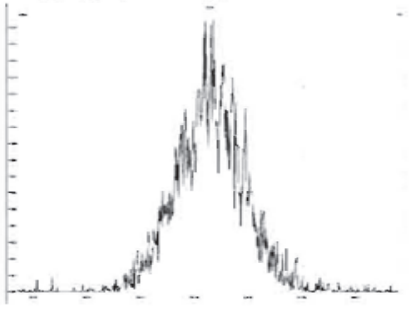
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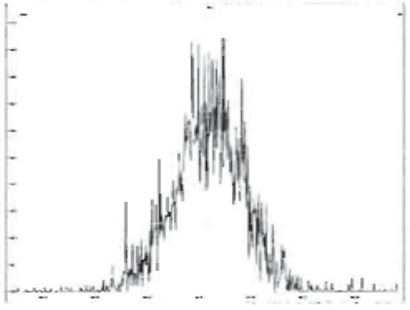
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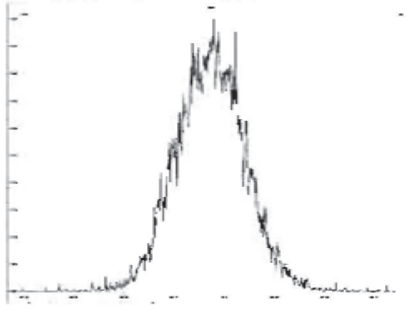
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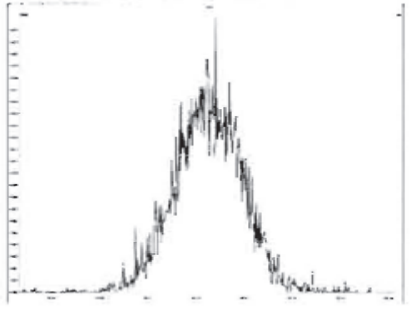
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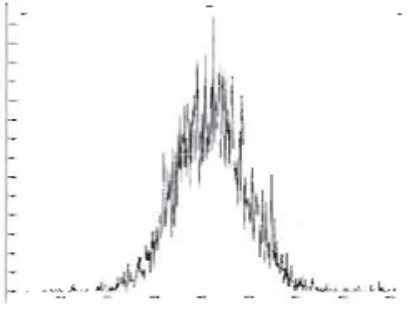
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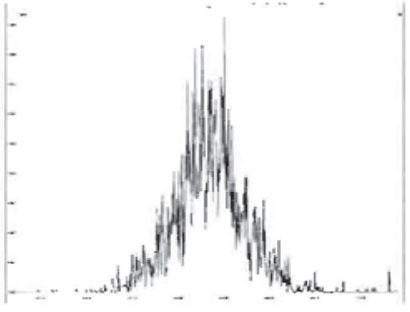
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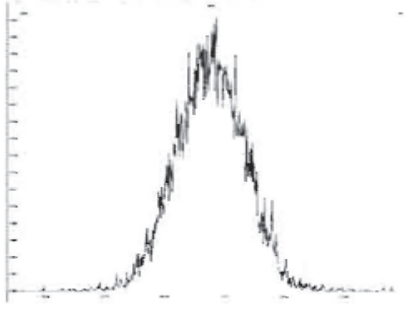
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M 416.9760 R 14626

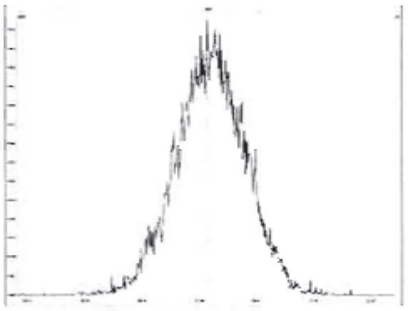


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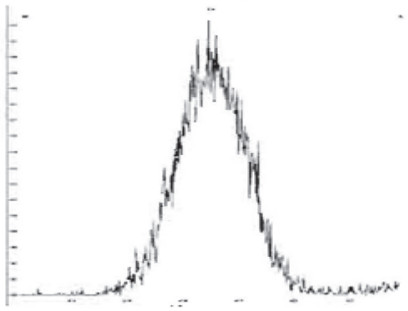


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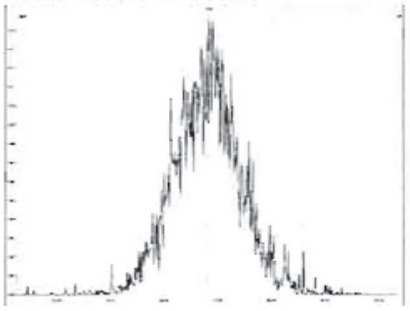
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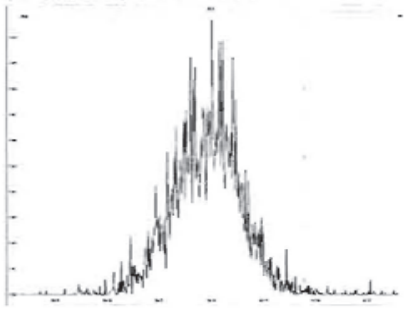
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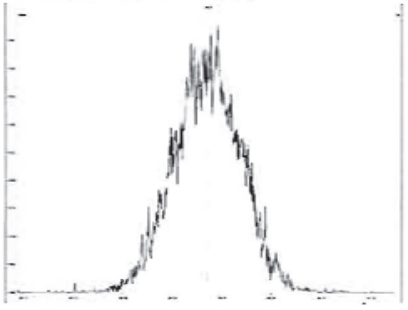
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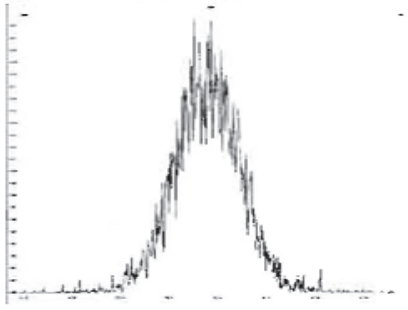
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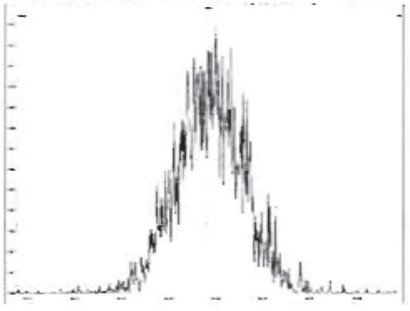
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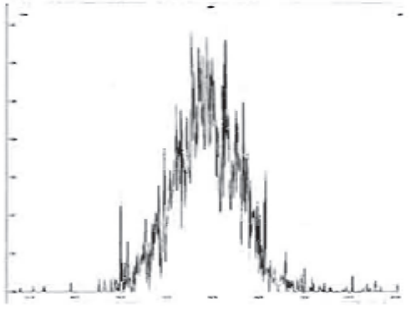
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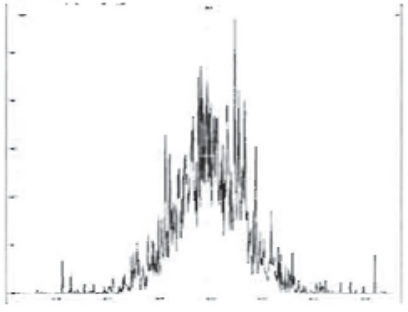
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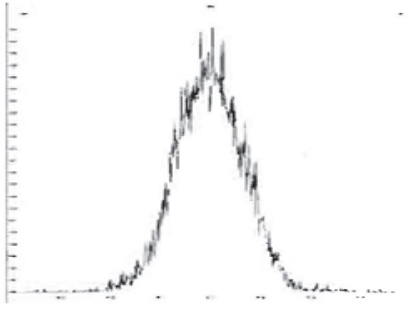
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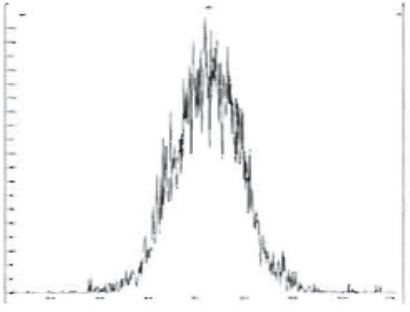
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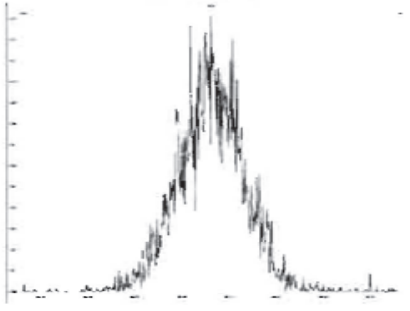
M 380.9760 R 12502



M 392.9760 R 13958

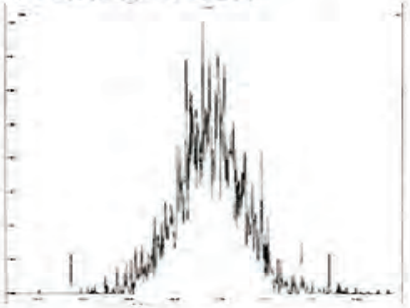


M 404.9760 R 15015

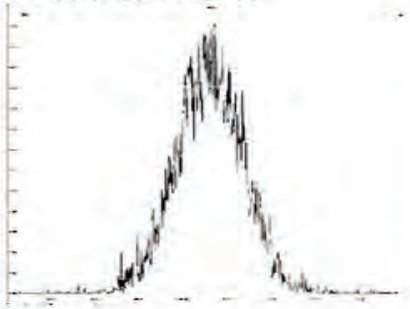


Printed: Tuesday, June 06, 2023 00:00:18 Pacific Daylight Time

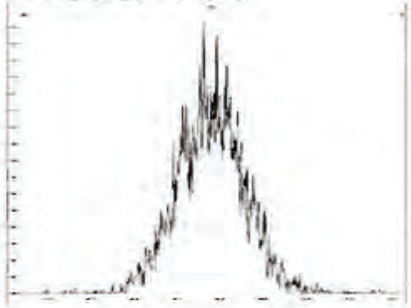
M 416.9760 R 15263



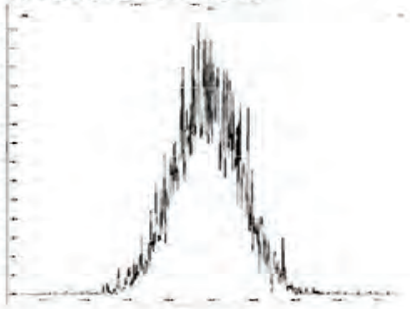
M 430.9728 R 12766



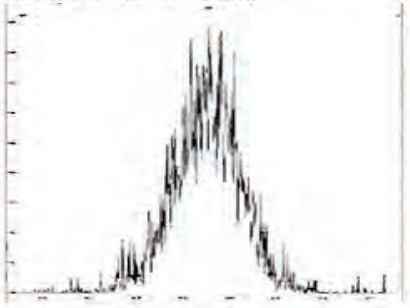
M 442.9728 R 13797



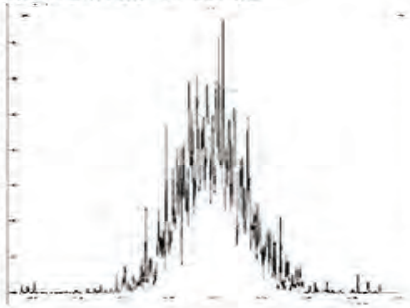
M 454.9728 R 14346



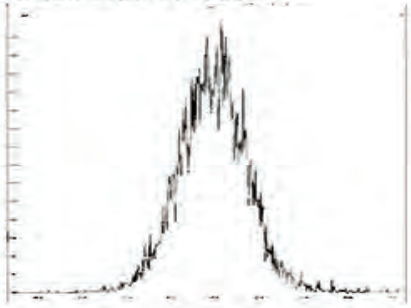
M 404.9760 R 13838



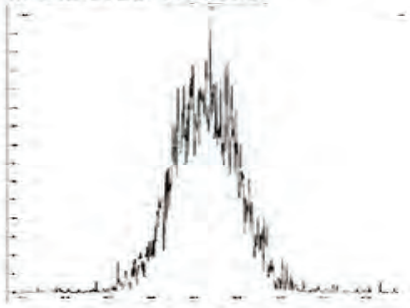
M 416.9760 R 13786



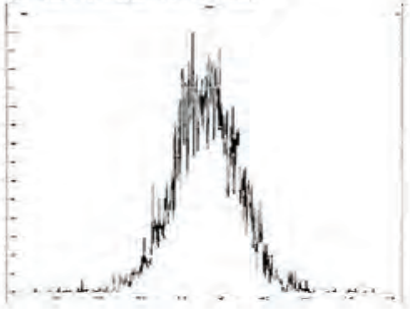
M 430.9728 R 13602



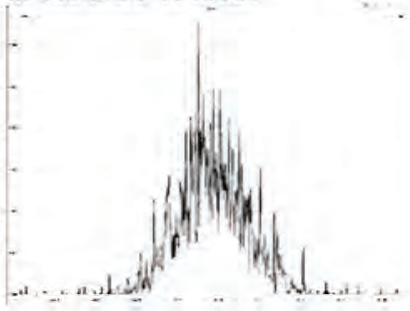
M 442.9728 R 13628



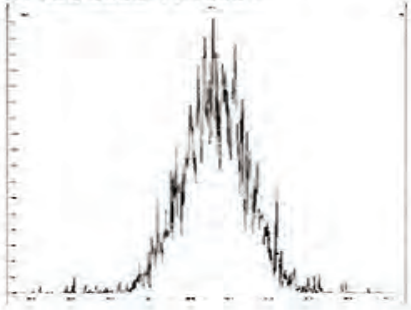
M 454.9728 R 13444



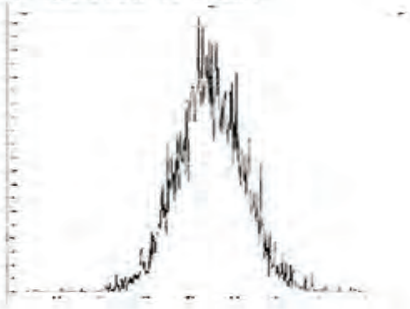
M 466.9728 R 16001



M 480.9696 R 13391

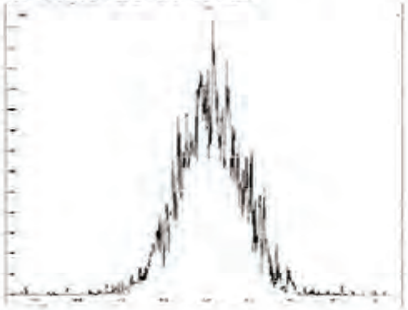


M 430.9728 R 12661

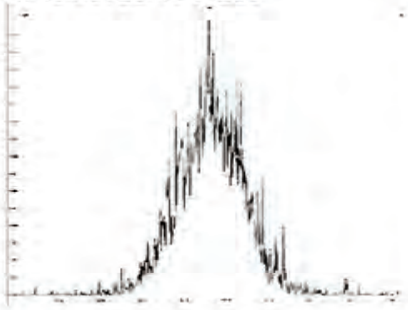


Printed: Tuesday, June 06, 2023 00:00:18 Pacific Daylight Time

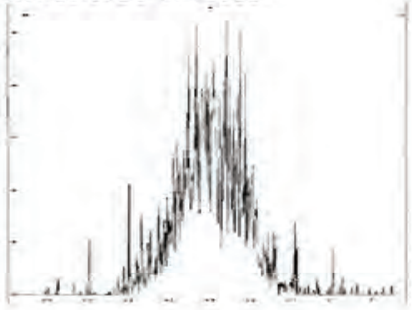
M 442.9728 R 13727



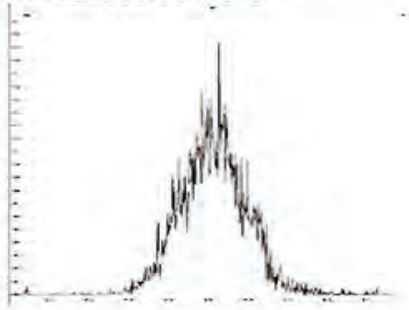
M 454.9728 R 14285



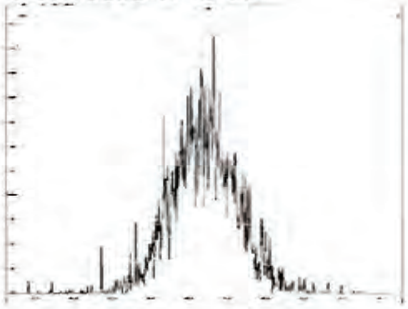
M 466.9728 R 14983



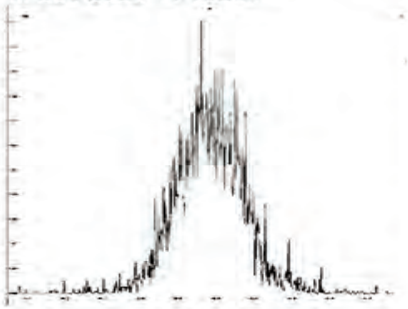
M 480.9696 R 14315



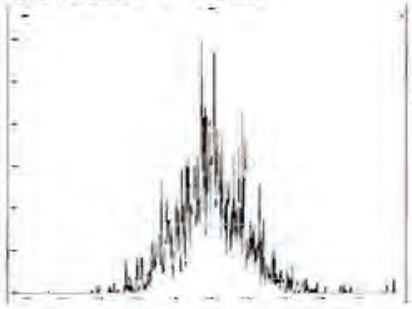
M 492.9696 R 15729



M 504.9696 R 15804



M 516.9697 R 15429



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID: ST230605R2-1

End Calibration ID: ST230605R3-1

Reviewed By: MAF 06.07.23
Initials & Date

	Beg.	End
Ion abundance within QC limits?	☑	☑
Concentrations within criteria?	☑	☑
TCDD/TCDF Valleys <25%	☑	☑
First and last eluters present?	☑	☑
Retention Times within criteria?	☑	☑
Verification Std. named correctly?	☑	☑
(ST-Year-Month-Day-VG ID)		
Forms signed and dated?	☑	☑
Correct ICAL referenced?	ATM	ATM
Run Log:		
- Correct instrument listed?	☑	☑
- Samples within 12 hour clock?	Y	N
- Bottle position verfied?	ATM	

	Beg.	End
Mass resolution ≥	☑	☑

☐ 5k ☐ 6-8K ☐ 8K ☑ 10K

1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?	☑	☑

GC Break <20% ☒ NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours ☒ NA

Comments:

Quantify Sample Summary Report **MassLynx 4.1 SCN815**
Enthalpy Analytical EDH VG-12

Dataset: I:\VG12.PRO\Results\230605R2\230605R2-2.qld

Last Altered: Tuesday, June 06, 2023 08:02:13 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 10:29:38 Pacific Daylight Time

MAF 06.07.23

ATM 06/06/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R2_2, Date: 06-Jun-2023, Time: 00:44:59, ID: ST230605R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	5.91e4	6.47e5	0.73	NO	0.906	26.76	26.74	NO	1.001	1.001	10.078	101	NO
2	2 1,2,3,7,8-PeCDD	2.05e5	4.67e5	0.62	NO	0.745	31.00	30.99	NO	1.001	1.000	58.807	118	NO
3	3 1,2,3,4,7,8-HxCDD	2.06e5	4.27e5	1.29	NO	0.837	34.30	34.31	NO	1.000	1.001	57.686	115	NO
4	4 1,2,3,6,7,8-HxCDD	1.91e5	4.28e5	1.29	NO	0.782	34.44	34.44	NO	1.001	1.001	57.078	114	NO
5	5 1,2,3,7,8,9-HxCDD	1.99e5	4.39e5	1.29	NO	0.780	34.73	34.73	NO	1.001	1.001	58.059	116	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.60e5	3.26e5	1.02	NO	0.903	38.09	38.09	NO	1.000	1.000	54.419	109	NO
7	7 OCDD	2.55e5	5.59e5	0.91	NO	0.782	41.45	41.44	NO	1.000	1.000	116.77	117	NO
8	8 2,3,7,8-TCDF	7.27e4	8.12e5	0.72	NO	0.852	26.13	26.15	NO	1.000	1.001	10.506	105	NO
9	9 1,2,3,7,8-PeCDF	3.19e5	7.09e5	1.67	NO	0.758	29.85	29.85	NO	1.001	1.000	59.504	119	NO
10	10 2,3,4,7,8-PeCDF	3.46e5	6.86e5	1.63	NO	0.834	30.82	30.81	NO	1.001	1.000	60.435	121	NO
11	11 1,2,3,4,7,8-HxCDF	2.34e5	5.50e5	1.20	NO	0.762	33.37	33.38	NO	1.000	1.001	55.852	112	NO
12	12 1,2,3,6,7,8-HxCDF	2.30e5	5.79e5	1.19	NO	0.726	33.52	33.51	NO	1.001	1.000	54.830	110	NO
13	13 2,3,4,6,7,8-HxCDF	2.25e5	5.44e5	1.20	NO	0.756	34.22	34.21	NO	1.001	1.000	54.633	109	NO
14	14 1,2,3,7,8,9-HxCDF	1.85e5	4.60e5	1.19	NO	0.749	35.27	35.27	NO	1.000	1.000	53.795	108	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.64e5	3.99e5	1.01	NO	0.754	36.90	36.90	NO	1.000	1.001	54.692	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.34e5	2.96e5	1.03	NO	0.792	38.81	38.81	NO	1.000	1.000	57.087	114	NO
17	17 OCDF	2.62e5	7.28e5	0.86	NO	0.669	41.79	41.79	NO	1.000	1.000	107.32	107	NO
18	18 13C-2,3,7,8-TCDD	6.47e5	5.69e5	0.76	NO	1.13	26.73	26.73	NO	1.026	1.026	101.00	101	NO
19	19 13C-1,2,3,7,8-PeCDD	4.67e5	5.69e5	0.63	NO	0.869	30.69	30.98	NO	1.178	1.189	94.413	94.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.27e5	5.49e5	1.25	NO	0.746	34.28	34.29	NO	1.013	1.014	104.21	104	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.28e5	5.49e5	1.23	NO	0.803	34.43	34.42	NO	1.018	1.017	97.265	97.3	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.39e5	5.49e5	1.24	NO	0.817	34.72	34.71	NO	1.026	1.026	97.908	97.9	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.26e5	5.49e5	1.07	NO	0.611	38.07	38.08	NO	1.125	1.126	97.135	97.1	NO
24	24 13C-OCDD	5.59e5	5.49e5	0.89	NO	0.545	41.38	41.43	NO	1.223	1.225	186.66	93.3	NO
25	25 13C-2,3,7,8-TCDF	8.12e5	8.39e5	0.79	NO	1.07	26.14	26.12	NO	1.003	1.002	90.234	90.2	NO
26	26 13C-1,2,3,7,8-PeCDF	7.09e5	8.39e5	1.60	NO	0.907	29.83	29.83	NO	1.145	1.145	93.172	93.2	NO
27	27 13C-2,3,4,7,8-PeCDF	6.86e5	8.39e5	1.61	NO	0.889	30.79	30.80	NO	1.181	1.182	92.025	92.0	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.50e5	5.49e5	0.50	NO	0.993	33.38	33.36	NO	0.987	0.986	100.96	101	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.79e5	5.49e5	0.51	NO	1.05	33.51	33.50	NO	0.990	0.990	100.15	100	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.44e5	5.49e5	0.51	NO	0.956	34.18	34.19	NO	1.010	1.011	103.61	104	NO

Dataset: I:\VG12.PRO\Results\230605R2\230605R2-2.qld

Last Altered: Tuesday, June 06, 2023 08:02:13 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 10:29:38 Pacific Daylight Time

Name: 230605R2_2, Date: 06-Jun-2023, Time: 00:44:59, ID: ST230605R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
31	31 13C-1,2,3,7,8,9-HxCDF	4.60e5	5.49e5	0.49	NO	0.853	35.25	35.26	NO	1.042	1.042	98.273	98.3	NO
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.99e5	5.49e5	0.41	NO	0.721	36.87	36.88	NO	1.090	1.090	100.75	101	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.96e5	5.49e5	0.41	NO	0.581	38.76	38.79	NO	1.146	1.147	92.924	92.9	NO
34	34 13C-OCDF	7.28e5	5.49e5	0.89	NO	0.718	41.77	41.78	NO	1.235	1.235	184.91	92.5	NO
35	35 37Cl-2,3,7,8-TCDD	5.71e4	5.69e5			0.980	26.74	26.74	NO	1.026	1.026	10.236	102	NO
36	36 13C-1,2,3,4-TCDD	5.69e5	5.69e5	0.80	NO	1.00	26.11	26.06	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.39e5	8.39e5	0.79	NO	1.00	24.81	24.78	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.49e5	5.49e5	0.50	NO	1.00	33.84	33.83	NO	1.000	1.000	100.00	100	YES OK

Dataset: Untitled

Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 14:33:56 Pacific Daylight Time

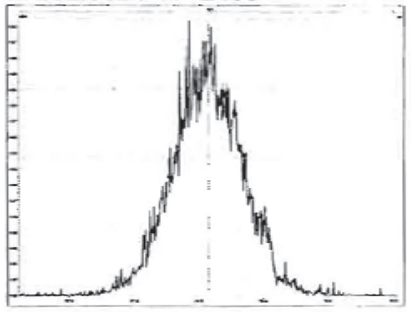
Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

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

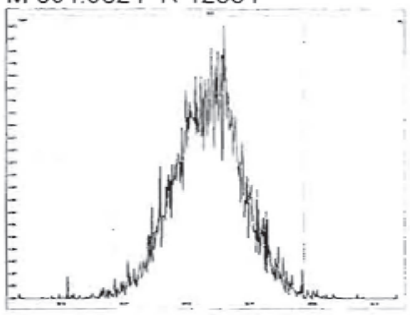
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1	230605R2_1	SOLVENT BLANK	06-Jun-23	00:00:20
2	230605R2_2	ST230605R2_1 1613 CS3 23E1003	06-Jun-23	00:44:59
3	230605R2_3	B23E297-BS1 OPR 1	06-Jun-23	01:30:08
4	230605R2_4	B23E291-BS1 OPR 1	06-Jun-23	02:15:09
5	230605R2_5	B23E268-BS1 OPR 5	06-Jun-23	03:00:10
6	230605R2_6	B23E212-BS1 OPR 1	06-Jun-23	03:45:09
7	230605R2_7	SOLVENT BLANK	06-Jun-23	04:30:12
8	230605R2_8	B23E212-BLK1 Method Blank 1	06-Jun-23	05:15:20
9	230605R2_9	B23E268-BLK1 Method Blank 5	06-Jun-23	06:00:22
10	230605R2_10	B23E291-BLK1 Method Blank 1	06-Jun-23	06:45:22
11	230605R2_11	B23E297-BLK1 Method Blank 1	06-Jun-23	07:30:23
12	230605R2_12	2305087-01 2305096-01Q Product #2 1 03873	06-Jun-23	08:15:22
13	230605R2_13	2305023-02RE1 PS63-SS-02 23.46	06-Jun-23	09:00:22
14	230605R2_14	2305135-01 WIF LS Inlet Sump-20230511 0.2	06-Jun-23	09:45:25
15	230605R2_15	2305135-02 B 108-20230510 0.05	06-Jun-23	10:30:26
16	230605R2_16	2305135-03 B 108-20230510-FD 0.05	06-Jun-23	11:15:28
17	230605R2_17	2305118-01RE1@110X 1005 Bldg Pressed So. .	06-Jun-23	12:00:28
18	230605R3_1	SOLVENT BLANK	06-Jun-23	12:54:29
19	230605R3_2	ST230605R3_1 1613 CS3 23E1003	06-Jun-23	13:39:06

Printed: Tuesday, June 06, 2023 00:00:18 Pacific Daylight Time

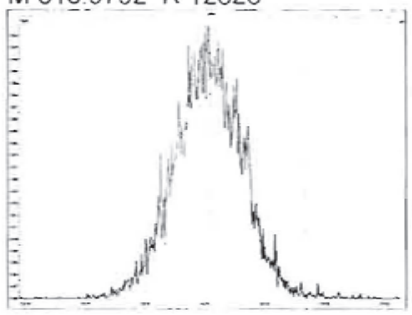
M 292.9824 R 12486



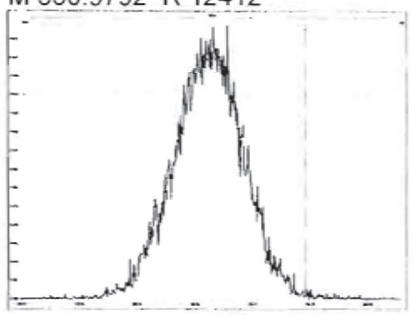
M 304.9824 R 12664



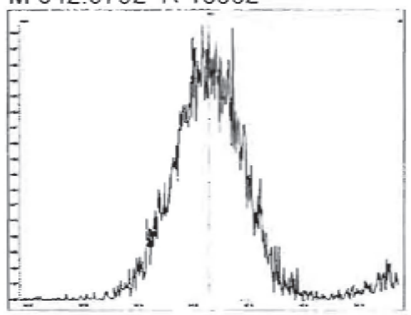
M 318.9792 R 12828



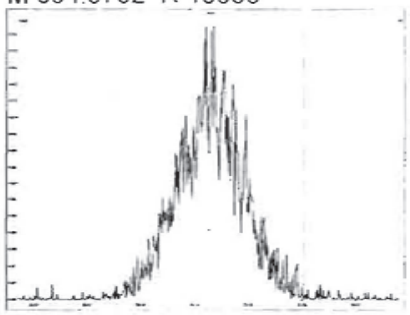
M 330.9792 R 12412



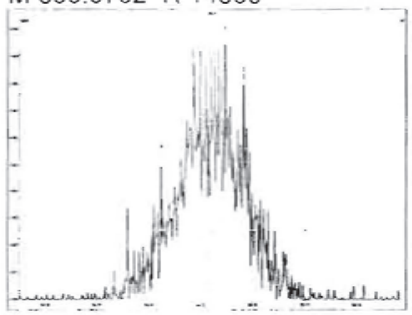
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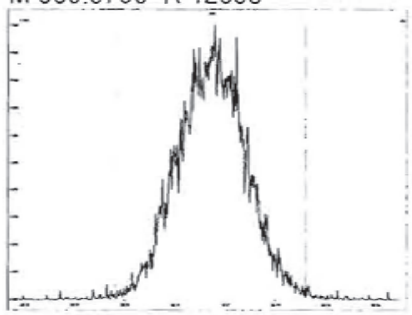
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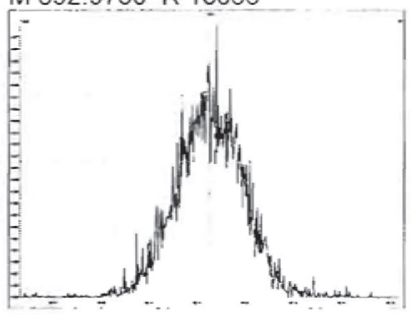
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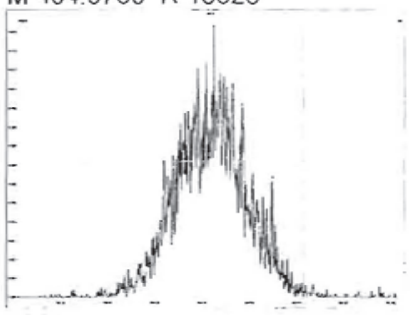
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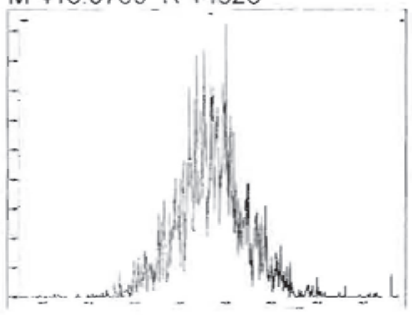
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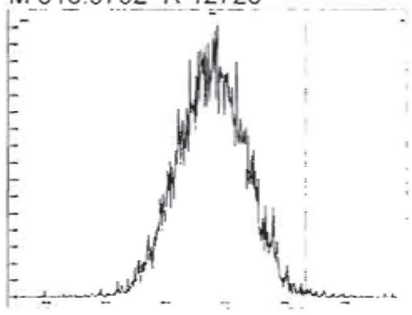
M 404.9760 R 13626



M 416.9760 R 14626

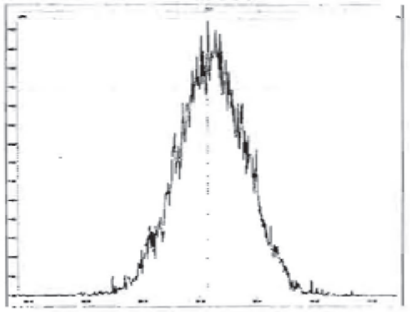


M 318.9792 R 12723

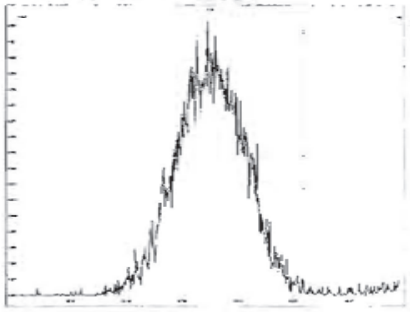


Printed: Tuesday, June 06, 2023 00:00:18 Pacific Daylight Time

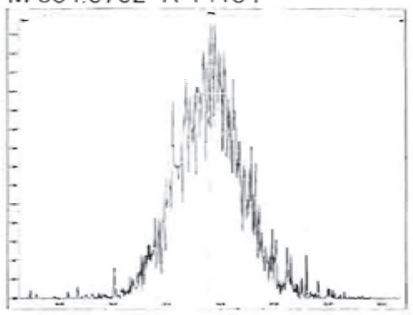
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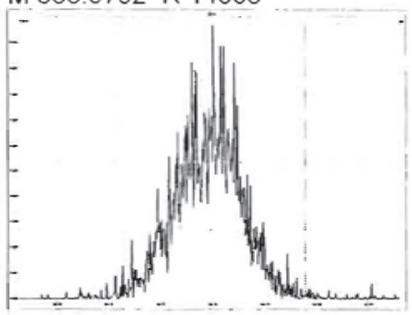
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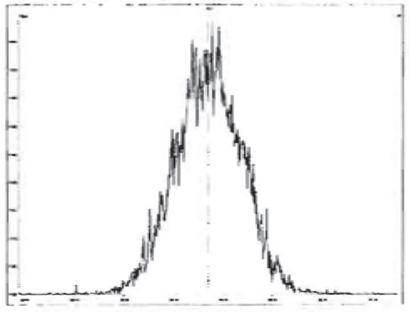
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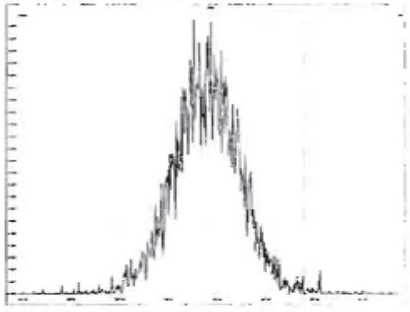
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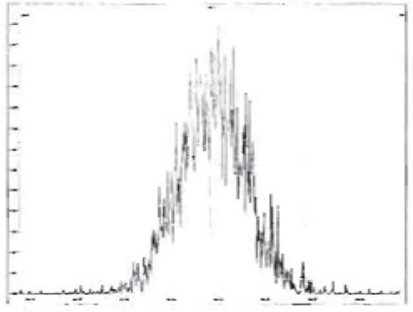
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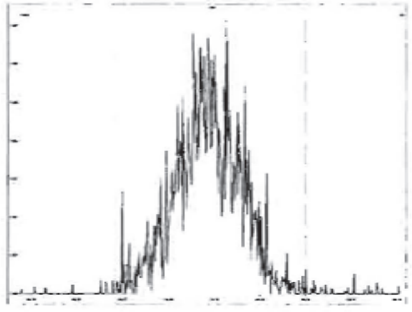
M 392.9760 R 13301



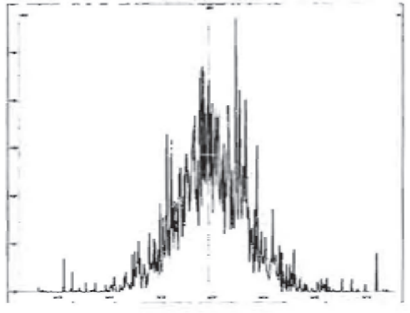
M 404.9760 R 14748



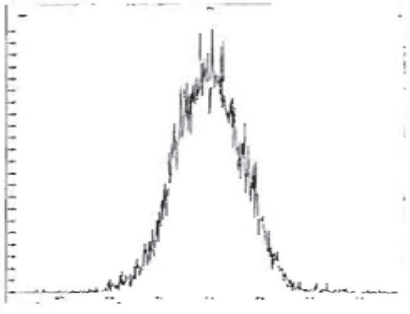
M 416.9760 R 16669



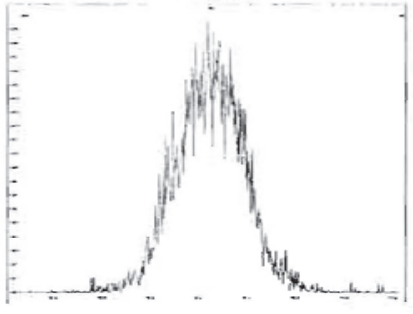
M 366.9792 R 15724



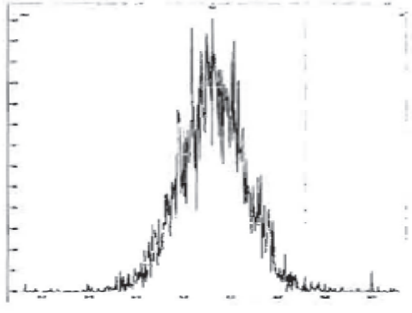
M 380.9760 R 12502



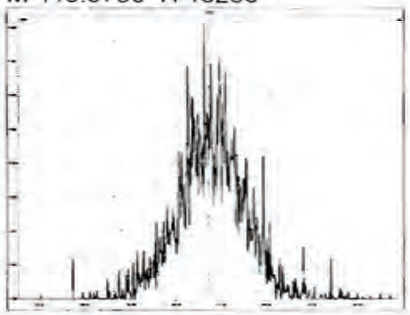
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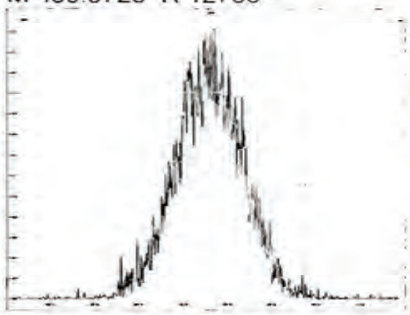
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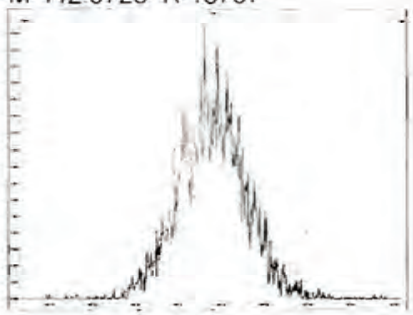
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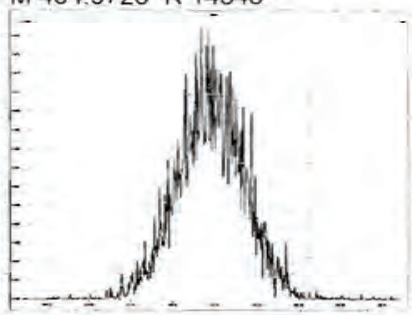
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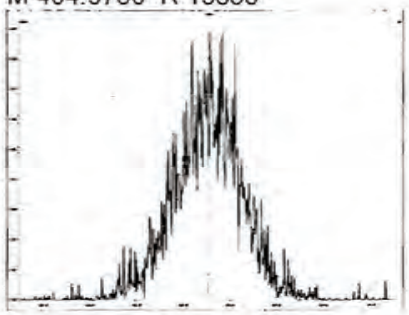
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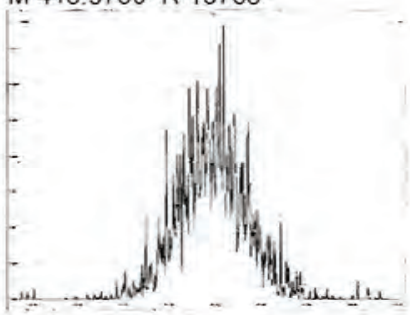
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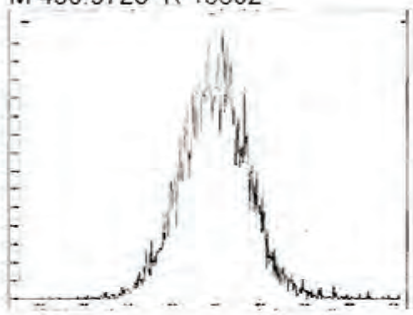
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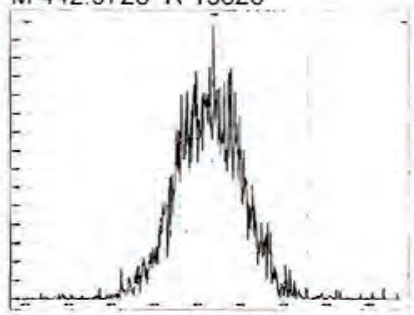
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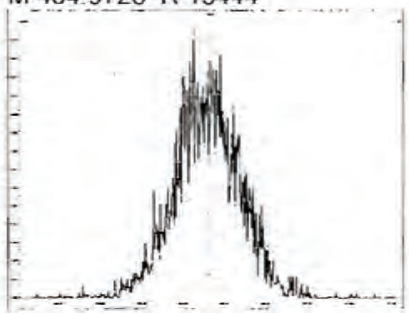
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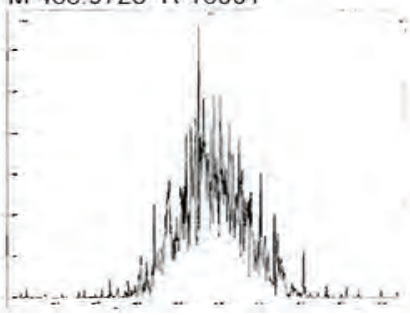
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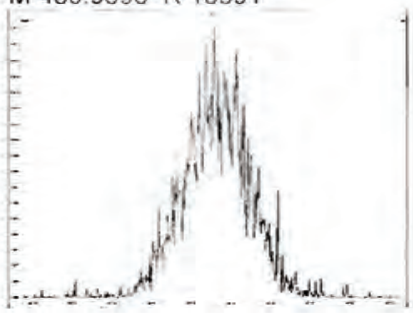
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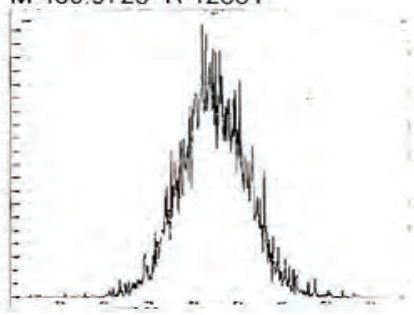
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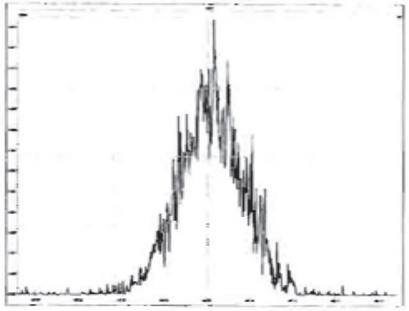
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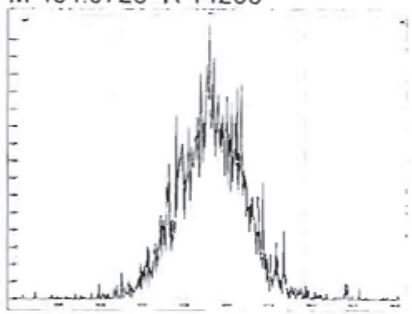
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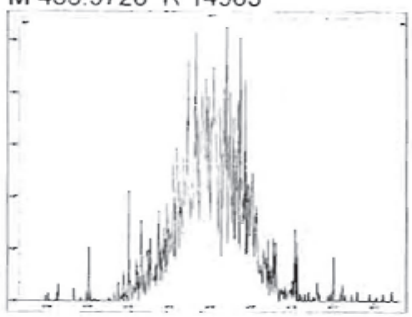
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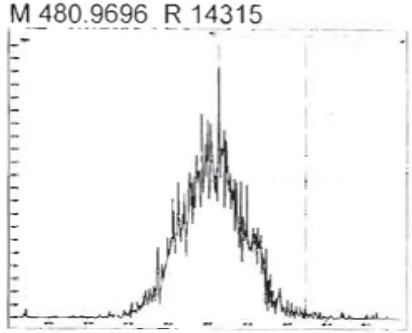
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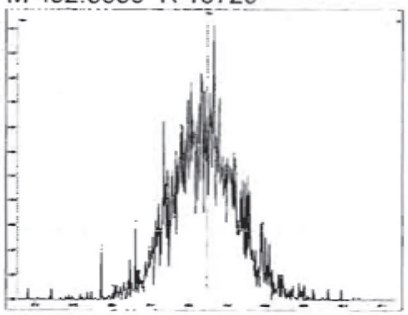
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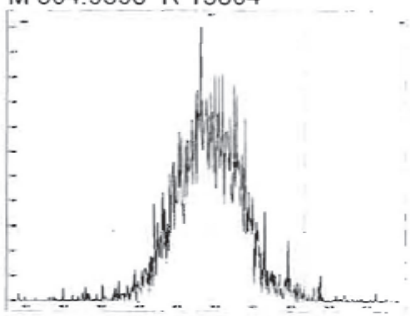
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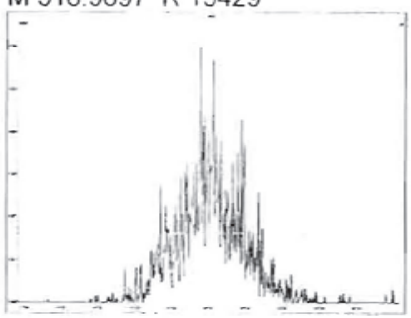
M 492.9696 R 15729



M 504.9696 R 15804



M 516.9697 R 15429



Enthalpy Analytical EDH VG-12

Dataset: Untitled

Last Altered: Tuesday, June 06, 2023 10:30:47 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 10:31:04 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 24 May 2023 17:45:01
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R2_2, Date: 06-Jun-2023, Time: 00:44:59, ID: ST230605R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

	#	Name	RT
1	1	1,3,6,8-TCDD (First)	23.48
2	2	1,2,8,9-TCDD (Last)	27.54
3	3	1,2,4,7,9-PeCDD (First)	28.91
4	4	1,2,3,8,9-PeCDD (Last)	31.32
5	5	1,2,4,6,7,9-HxCDD (First)	32.59
6	6	1,2,3,7,8,9-HxCDD (Last)	34.73
7	7	1,2,3,4,6,7,9-HpCDD (First)	37.21
8	8	1,2,3,4,6,7,8-HpCDD (Last)	38.09
9	9	1,3,6,8-TCDF (First)	21.44
10	10	1,2,8,9-TCDF (Last)	27.84
11	11	1,3,4,6,8-PeCDF (First)	27.44
12	12	1,2,3,8,9-PeCDF (Last)	31.67
13	13	1,2,3,4,6,8-HxCDF (First)	32.07
14	14	1,2,3,7,8,9-HxCDF (Last)	35.27
15	15	1,2,3,4,6,7,8-HpCDF (First)	36.90
16	16	1,2,3,4,7,8,9-HpCDF (Last)	38.80

Enthalpy Analytical EDH VG-12

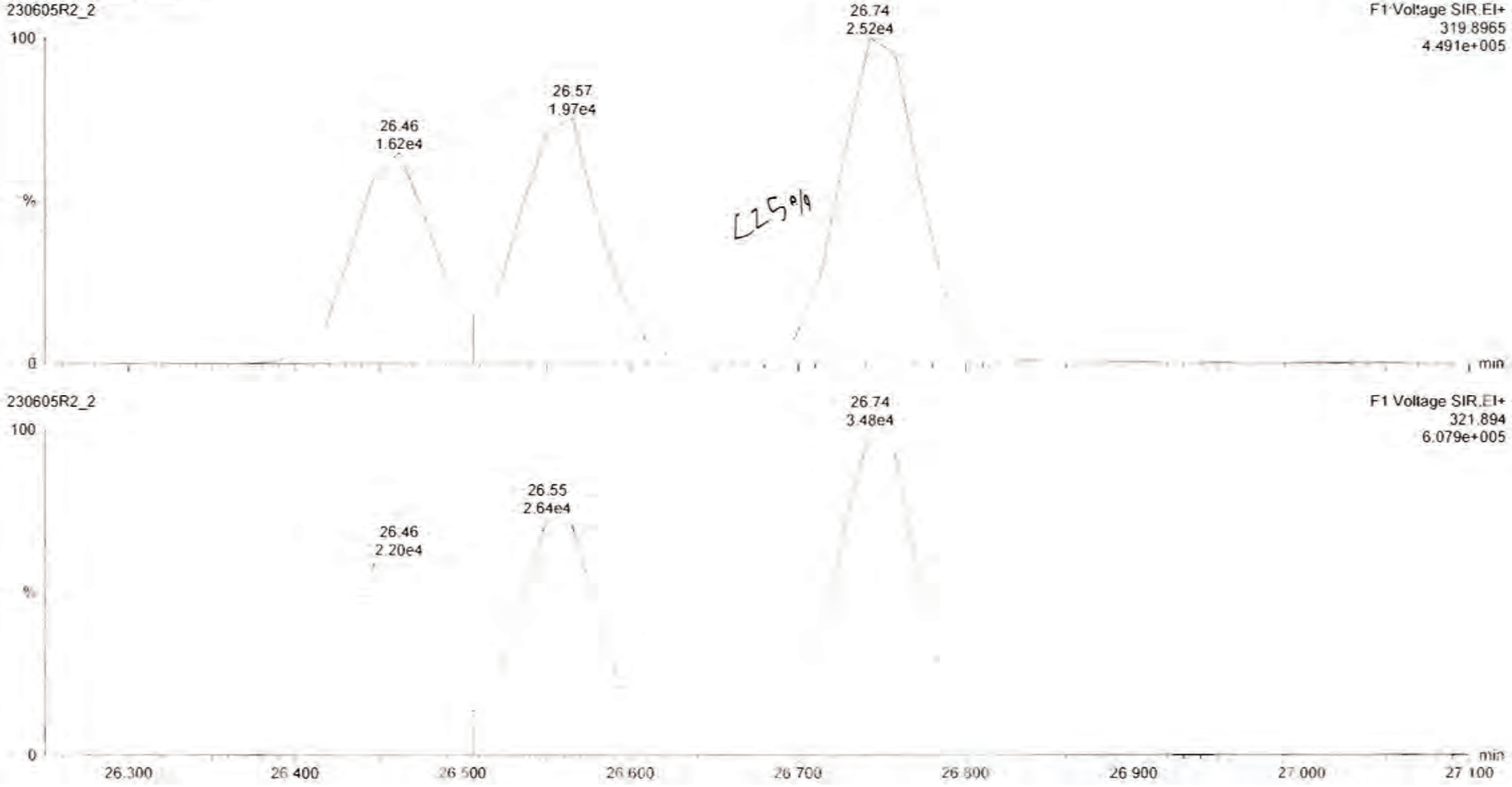
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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R2_2, Date: 06-Jun-2023, Time: 00:44:59, ID: ST230605R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

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

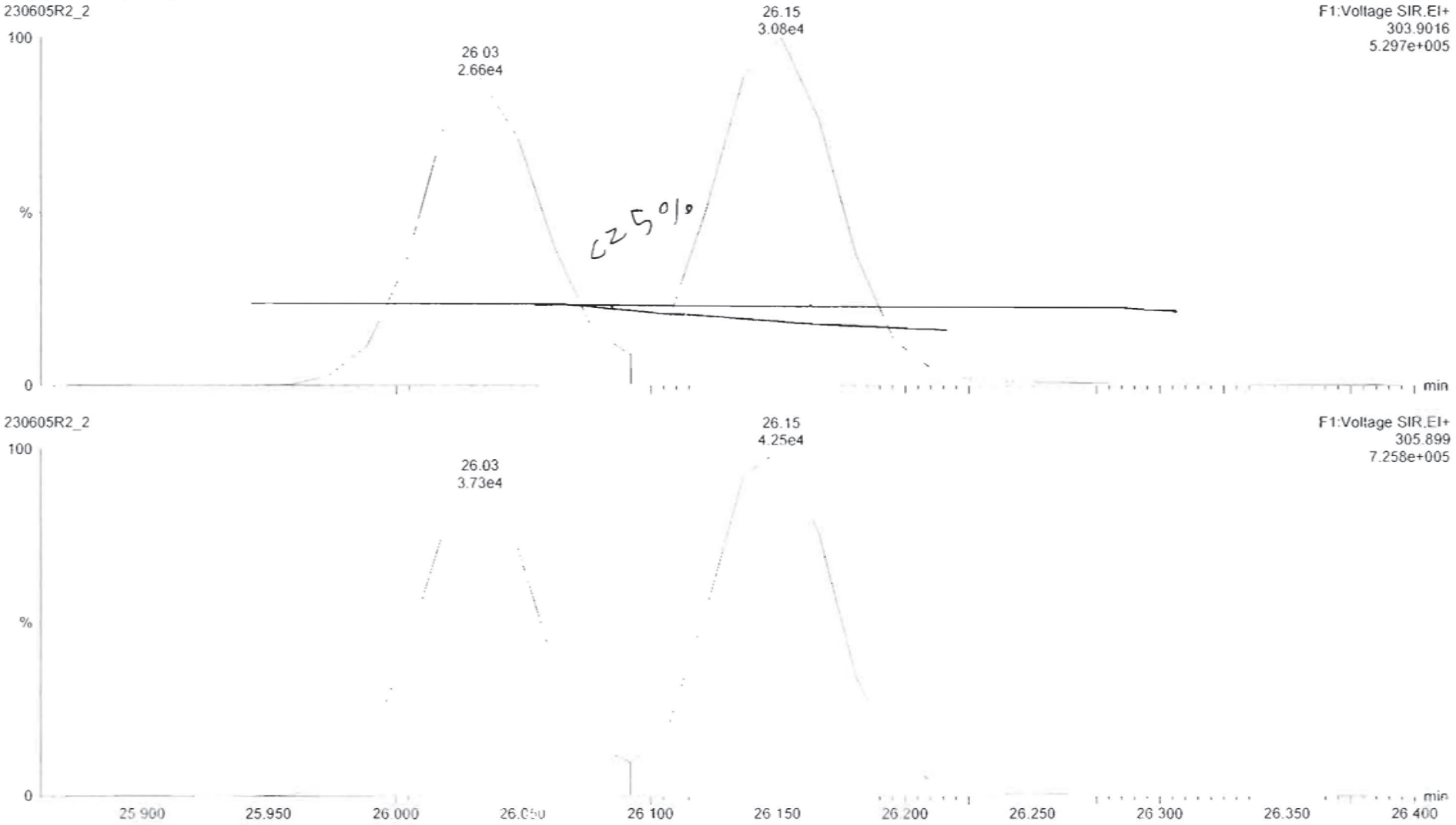


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Printed: Tuesday, June 06, 2023 10:31:04 Pacific Daylight Time

Name: 230605R2_2, Date: 06-Jun-2023, Time: 00:44:59, ID: ST230605R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

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



Enthalpy Analytical EDH VG-12

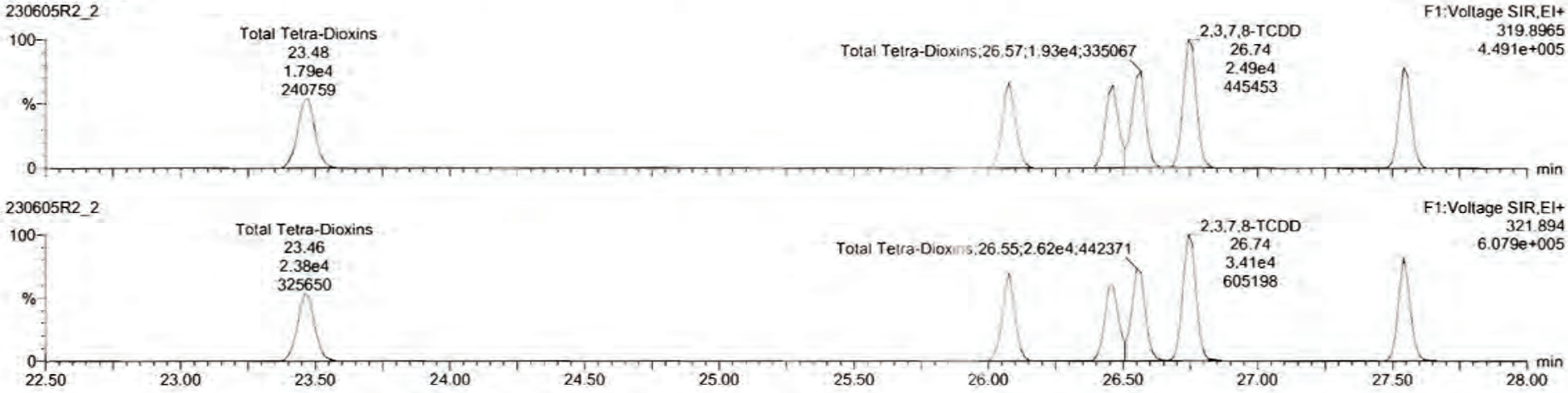
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Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

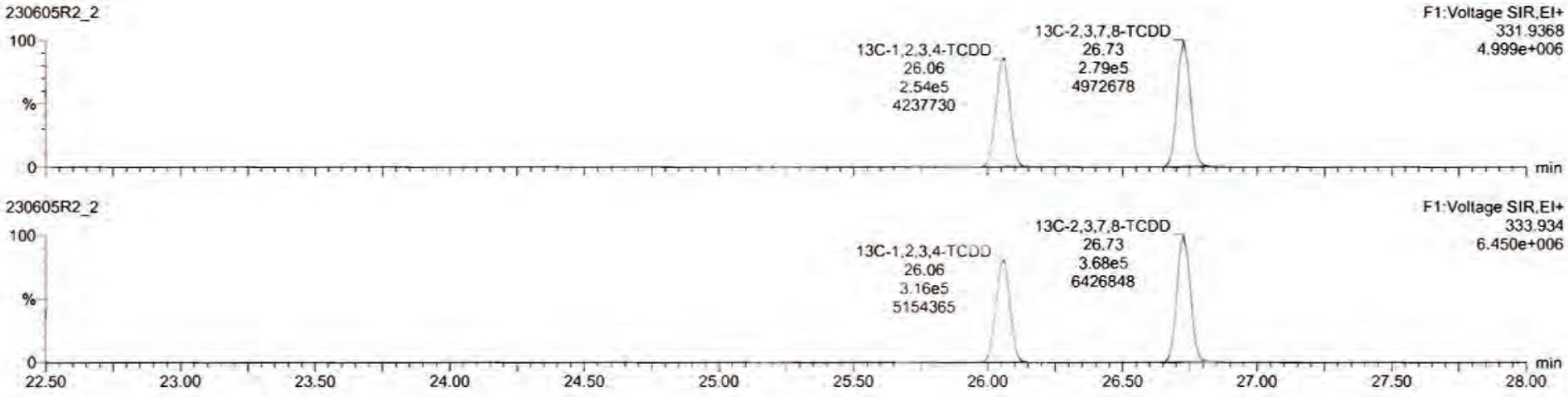
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Name: 230605R2_2, Date: 06-Jun-2023, Time: 00:44:59, ID: ST230605R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

2,3,7,8-TCDD



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

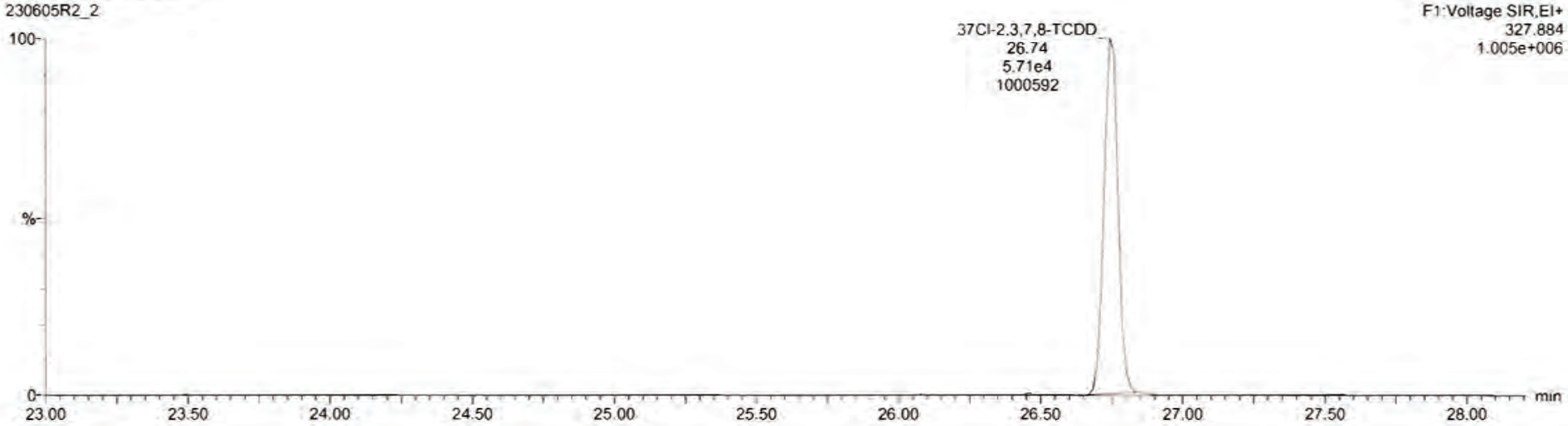


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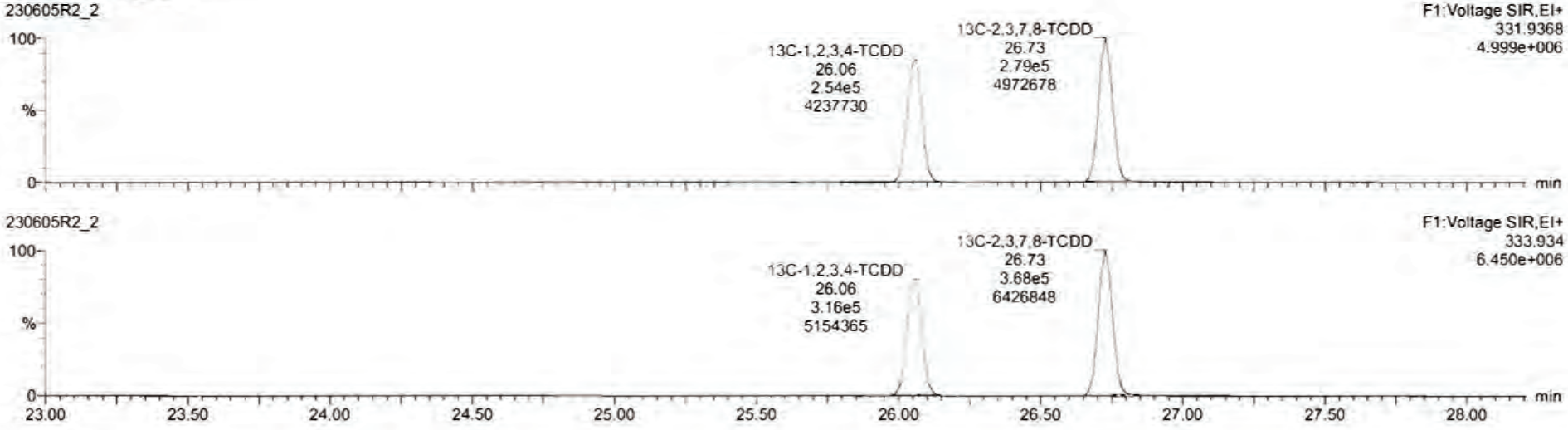
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37Cl-2,3,7,8-TCDD



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

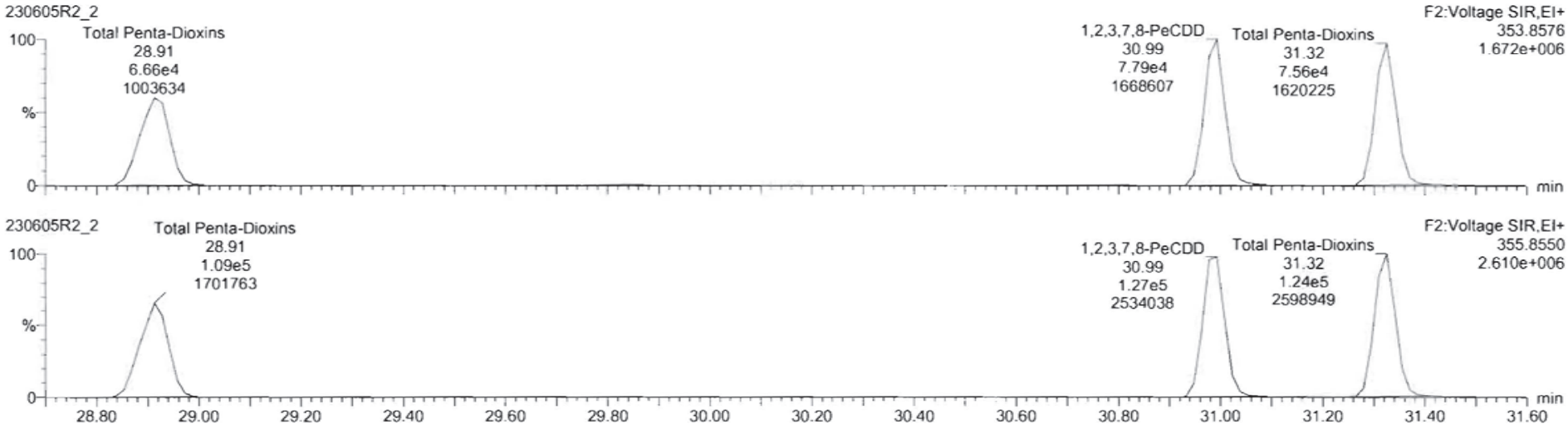


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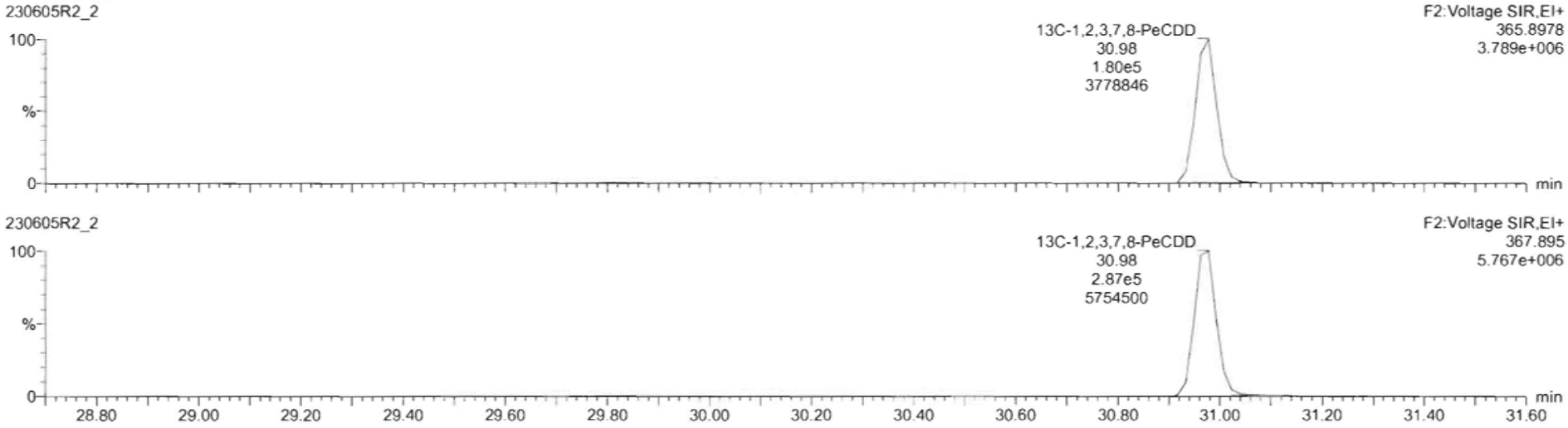
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1,2,3,7,8-PeCDD



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

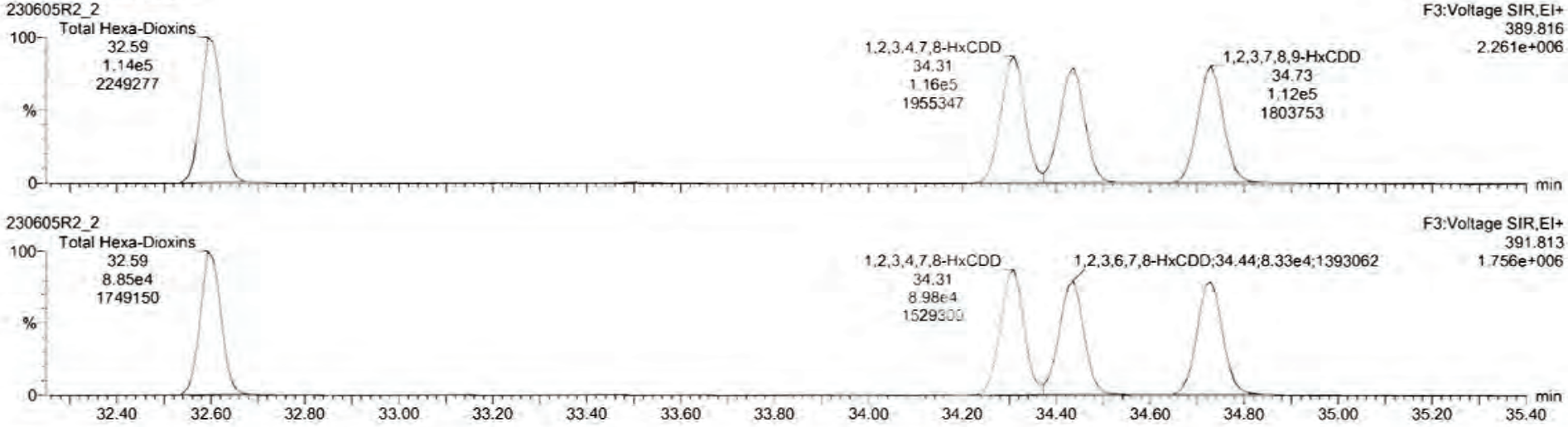


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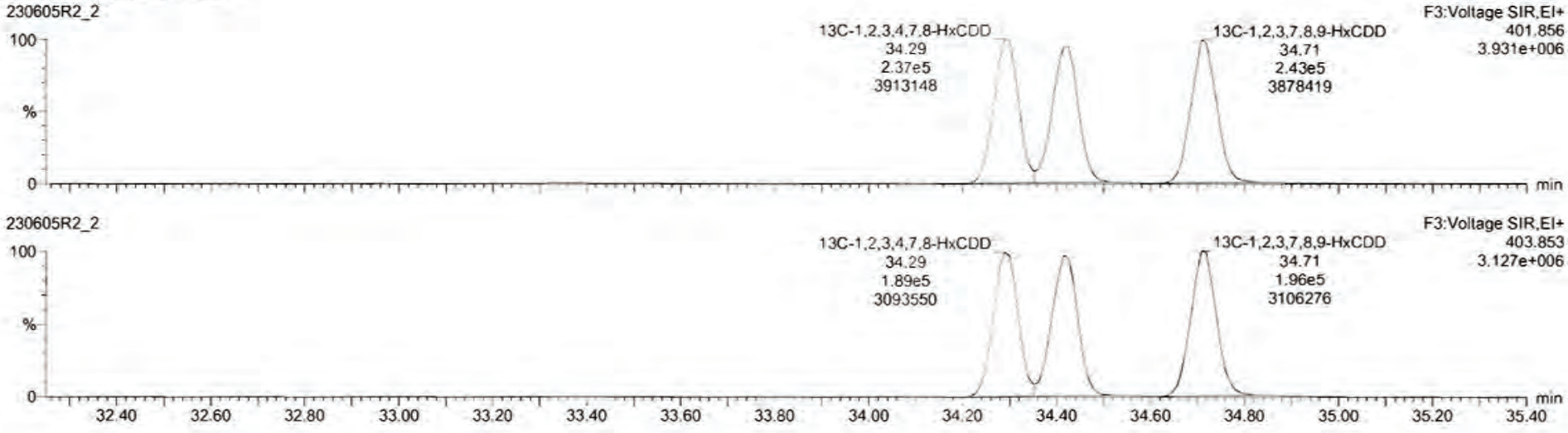
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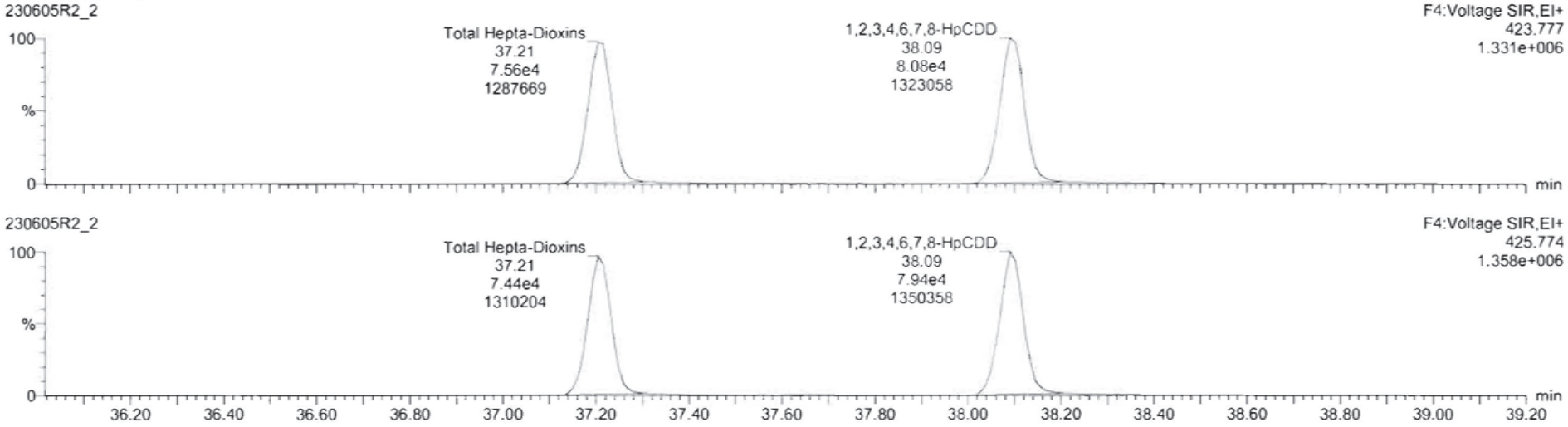


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1,2,3,4,6,7,8-HpCDD



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

