

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:14 Pacific Standard Time

ID: 16K0053-06RE1, Name: 17022410, Date: 24-Feb-2017, Time: 21:11:58, Conditions: AUTOSPEC01, User: PK

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	22.21	0.000							61.5
2	48 FUNCTION1 PFK	330.9792	22.09	0.000							64.6
3	48 FUNCTION1 PFK	330.9792	21.97	0.000							67.1
4	48 FUNCTION1 PFK	330.9792	21.89	0.000							68.8
5	48 FUNCTION1 PFK	330.9792	21.61	0.000							76.1
6	48 FUNCTION1 PFK	330.9792	21.51	0.000							79.2
7	48 FUNCTION1 PFK	330.9792	21.24	0.000							85.2
8	48 FUNCTION1 PFK	330.9792	21.15	0.000							87.8
9	48 FUNCTION1 PFK	330.9792	26.97	0.000							0.8
10	48 FUNCTION1 PFK	330.9792	26.75	0.000							2.9
11	48 FUNCTION1 PFK	330.9792	26.62	0.000							1.7
12	48 FUNCTION1 PFK	330.9792	26.39	0.000							1.3
13	48 FUNCTION1 PFK	330.9792	26.27	0.000							0.6
14	48 FUNCTION1 PFK	330.9792	25.96	0.000							0.9
15	48 FUNCTION1 PFK	330.9792	25.58	0.000							0.8
16	48 FUNCTION1 PFK	330.9792	25.48	0.000							1.5
17	48 FUNCTION1 PFK	330.9792	25.39	0.000							0.5
18	48 FUNCTION1 PFK	330.9792	24.82	0.000							1.5
19	48 FUNCTION1 PFK	330.9792	24.27	0.000							8.2
20	48 FUNCTION1 PFK	330.9792	24.03	0.000							15.1
21	48 FUNCTION1 PFK	330.9792	23.72	0.000							22.4
22	48 FUNCTION1 PFK	330.9792	23.58	0.000							25.7
23	48 FUNCTION1 PFK	330.9792	23.34	0.000							32.3
24	48 FUNCTION1 PFK	330.9792	22.85	0.000							45.3

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	30.94	0.000		0.000					1.2
2	49 FUNCTION2 PFK	366.9792	30.65	0.000		0.000					1.8
3	49 FUNCTION2 PFK	366.9792	30.61	0.000		0.000					1.8
4	49 FUNCTION2 PFK	366.9792	30.41	0.000		0.000					1.4
5	49 FUNCTION2 PFK	366.9792	30.37	0.000		0.000					0.9
6	49 FUNCTION2 PFK	366.9792	30.19	0.000		0.000					1.4
7	49 FUNCTION2 PFK	366.9792	29.97	0.000		0.000					0.6
8	49 FUNCTION2 PFK	366.9792	29.47	0.000		0.000					0.8
9	49 FUNCTION2 PFK	366.9792	29.42	0.000		0.000					0.5
10	49 FUNCTION2 PFK	366.9792	28.93	0.000		0.000					0.7
11	49 FUNCTION2 PFK	366.9792	28.73	0.000		0.000					1.5
12	49 FUNCTION2 PFK	366.9792	28.50	0.000		0.000					0.9
13	49 FUNCTION2 PFK	366.9792	28.47	0.000		0.000					1.2
14	49 FUNCTION2 PFK	366.9792	28.14	0.000		0.000					2.0
15	49 FUNCTION2 PFK	366.9792	28.11	0.000		0.000					0.6
16	49 FUNCTION2 PFK	366.9792	32.45	0.000		0.000					0.7
17	49 FUNCTION2 PFK	366.9792	32.41	0.000		0.000					1.3
18	49 FUNCTION2 PFK	366.9792	32.00	0.000		0.000					0.5
19	49 FUNCTION2 PFK	366.9792	31.88	0.000		0.000					1.6
20	49 FUNCTION2 PFK	366.9792	31.55	0.000		0.000					1.3
21	49 FUNCTION2 PFK	366.9792	31.47	0.000		0.000					0.7
22	49 FUNCTION2 PFK	366.9792	31.41	0.000		0.000					0.4
23	49 FUNCTION2 PFK	366.9792	31.11	0.000		0.000					1.0

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PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	42.10	0.000							2.1

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	46.27	0.000							2.5
2	52 FUNCTION5 PFK	480.9696	44.60	0.000							1.2

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	25.33	0.000		0.000					19.2
2	53 FUNCTION1 HXCD...	375.8364	26.57	0.000		0.000					4.6
3	53 FUNCTION1 HXCD...	375.8364	26.47	0.000		0.000					8.4
4	53 FUNCTION1 HXCD...	375.8364	25.60	0.000		0.000					79.4

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	27.86	0.000		0.000					1.5
2	54 FUNCTION1 HPCD...	409.7974	27.69	0.000		0.000					1.4
3	54 FUNCTION1 HPCD...	409.7974	26.88	0.000		0.000					1.5
4	54 FUNCTION1 HPCD...	409.7974	26.60	0.000		0.000					1.9
5	54 FUNCTION1 HPCD...	409.7974	26.18	0.000		0.000					1.9
6	54 FUNCTION1 HPCD...	409.7974	24.75	0.000		0.000					1.7
7	54 FUNCTION1 HPCD...	409.7974	22.51	0.000		0.000					1.8
8	54 FUNCTION1 HPCD...	409.7974	22.21	0.000		0.000					3.5
9	54 FUNCTION1 HPCD...	409.7974	22.07	0.000		0.000					2.0
10	54 FUNCTION1 HPCD...	409.7974	21.85	0.000		0.000					20.9

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	27.97	0.000		0.000					2.3
2	55 FUNCTION2 HPCD...	409.7974	32.52	0.000		0.000					2.7
3	55 FUNCTION2 HPCD...	409.7974	32.43	0.000		0.000					2.5
4	55 FUNCTION2 HPCD...	409.7974	32.39	0.000		0.000					2.8
5	55 FUNCTION2 HPCD...	409.7974	32.15	0.000		0.000					2.3
6	55 FUNCTION2 HPCD...	409.7974	32.01	0.000		0.000					1.9
7	55 FUNCTION2 HPCD...	409.7974	31.64	0.000		0.000					2.2
8	55 FUNCTION2 HPCD...	409.7974	31.20	0.000		0.000					2.3
9	55 FUNCTION2 HPCD...	409.7974	30.58	0.000		0.000					2.3
10	55 FUNCTION2 HPCD...	409.7974	28.89	0.000		0.000					2.7

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ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	39.11	0.000		0.000					5.5
2	57 FUNCTION4 NCDPE	479.7165	38.59	0.000		0.000					6.5

ETHERS6

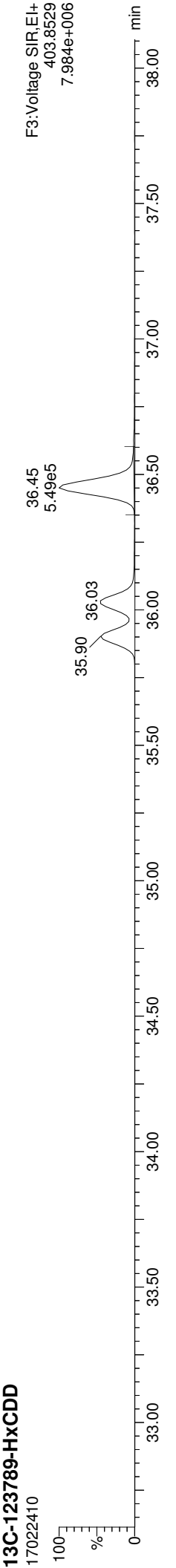
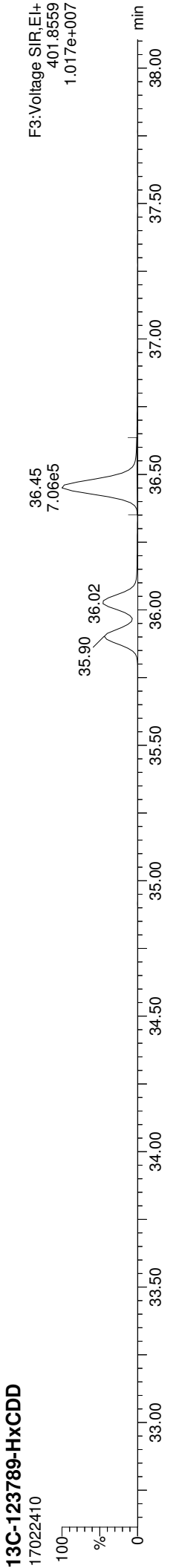
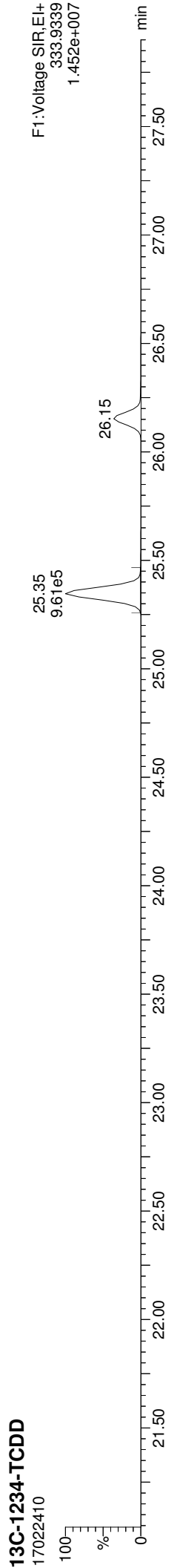
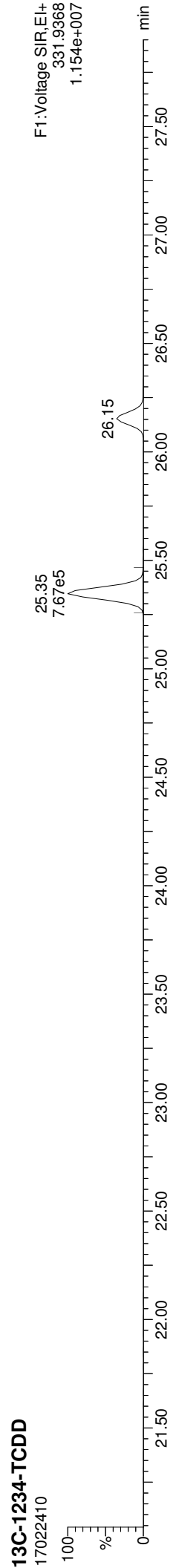
	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

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Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-06RE1, Name: 17022410, Date: 24-Feb-2017, Time: 21:11:58, Conditions: AUTOSPEC01, User: PK

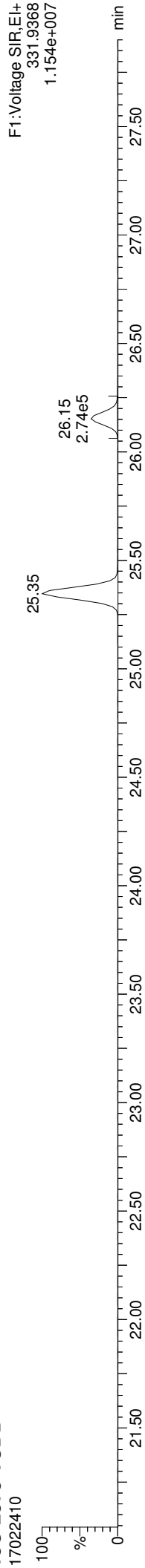


Quantify Sample Report

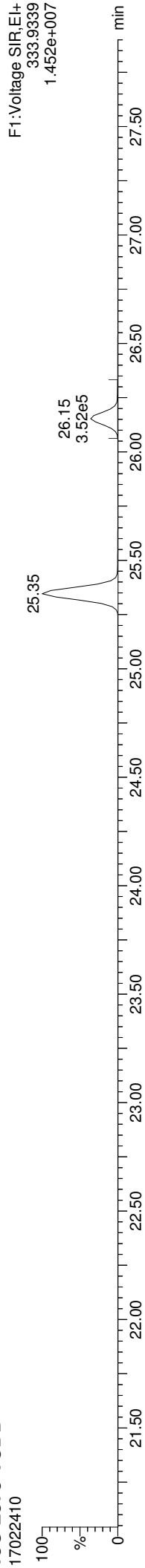
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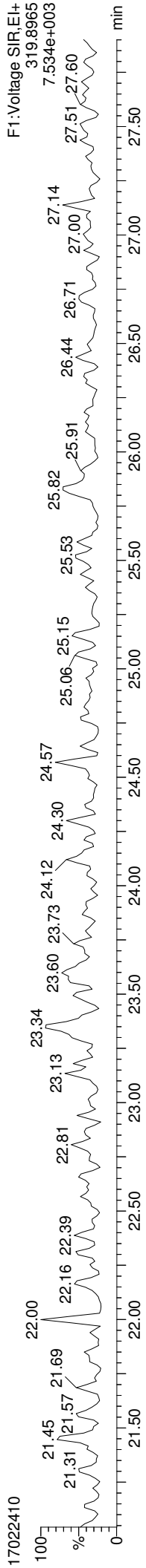
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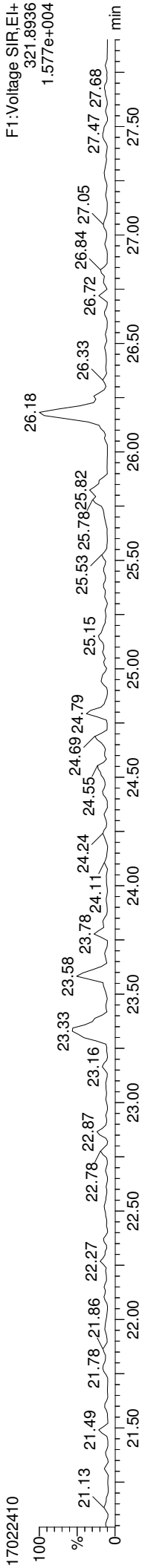
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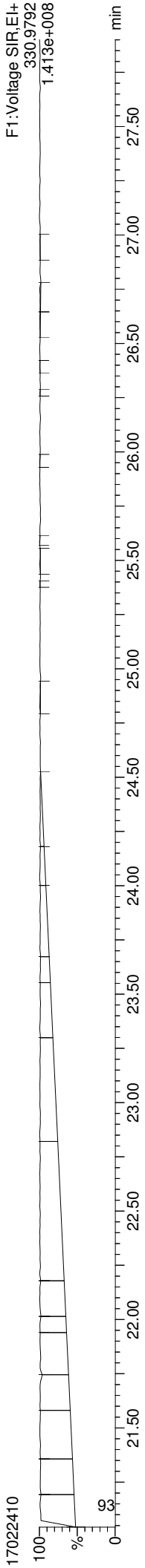
Total-tetradoxins



Total-tetradoxins



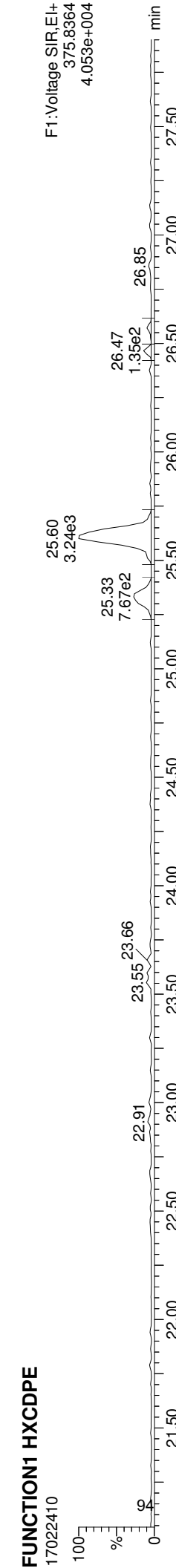
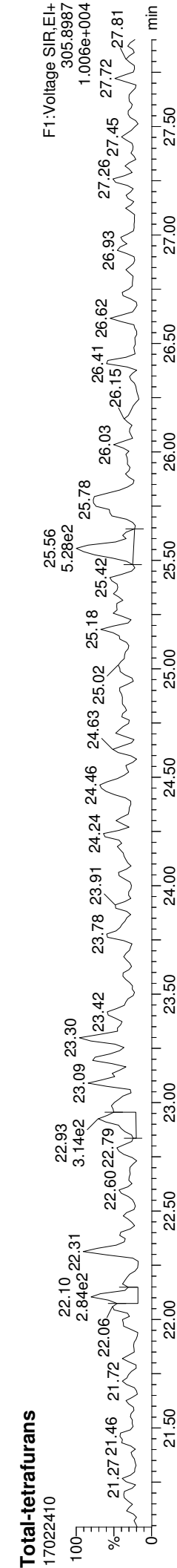
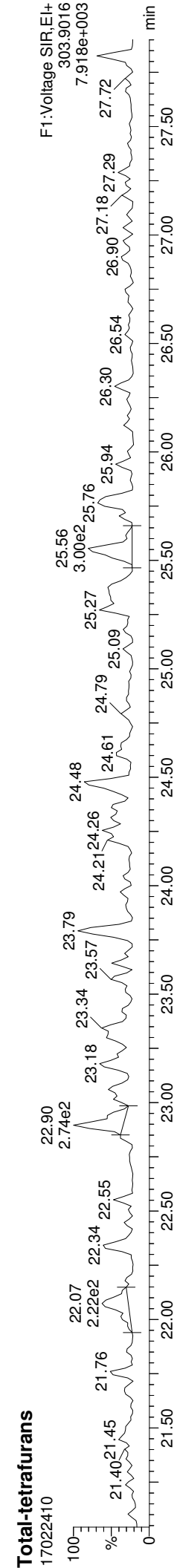
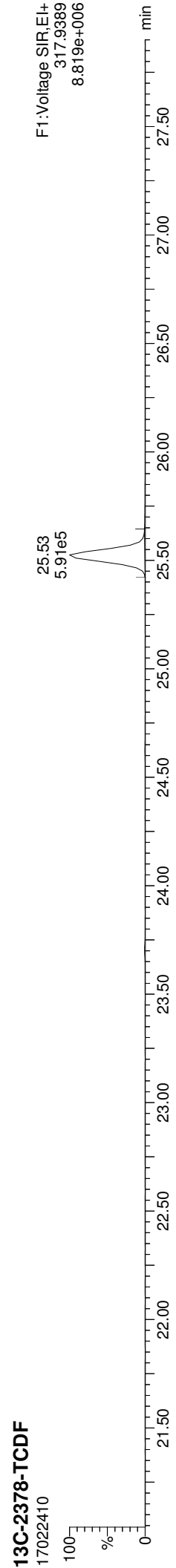
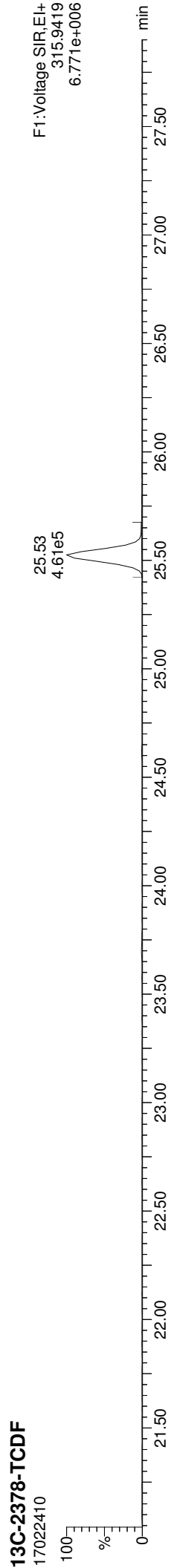
FUNCTION1 PFK



Quantify Sample Report

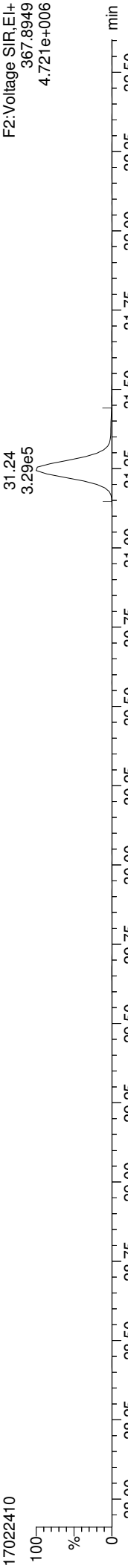
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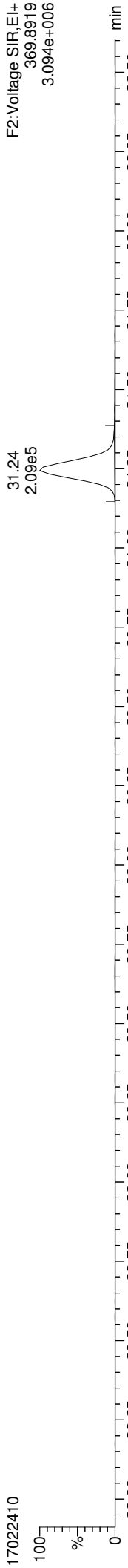


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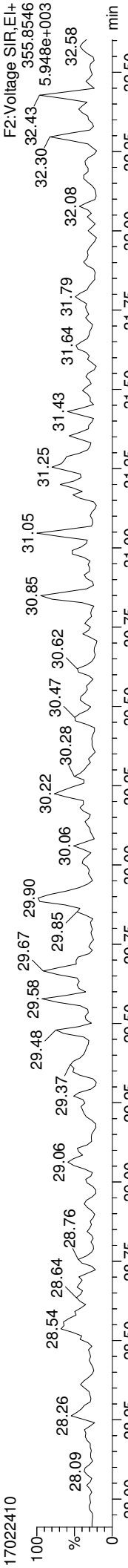
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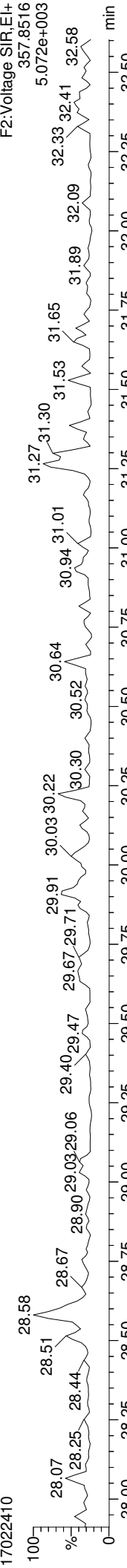
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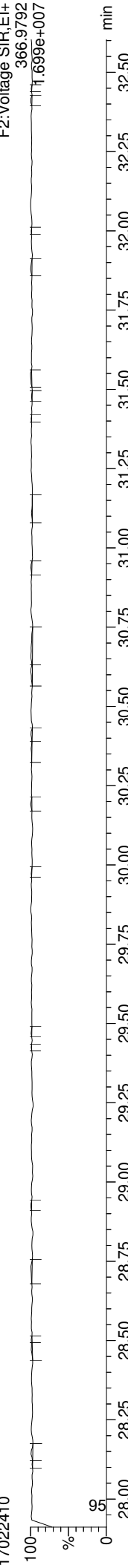
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Total-pentadioxins



FUNCTION2 PFK

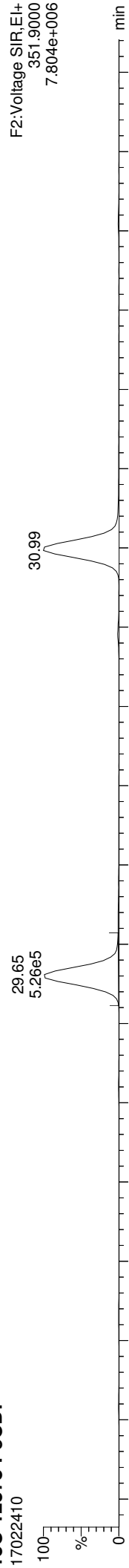


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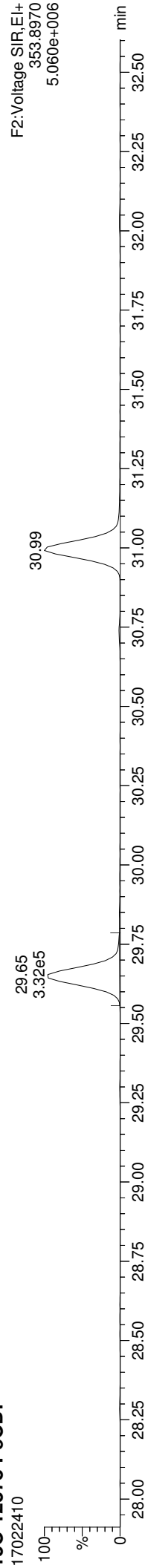
MassLynx MassLynx V4.1 SCN909

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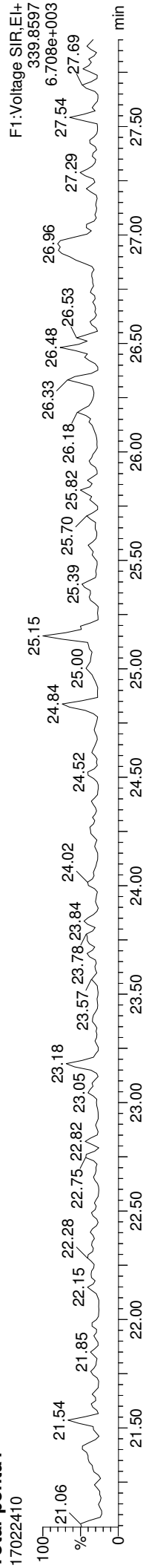
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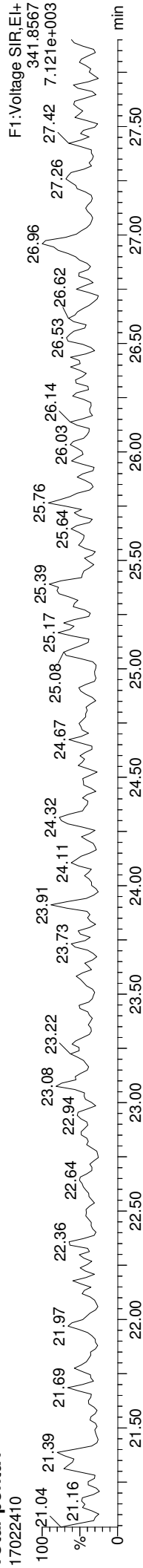
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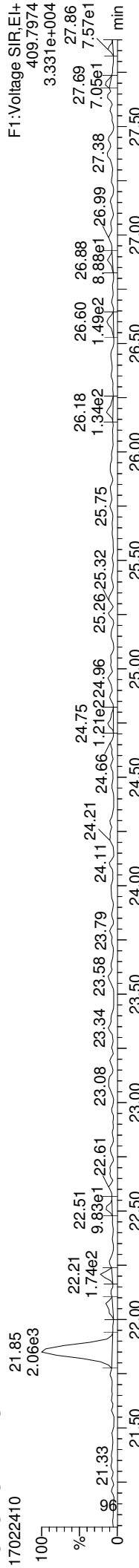
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Total-penta1



FUNCTION1 HPCDPE

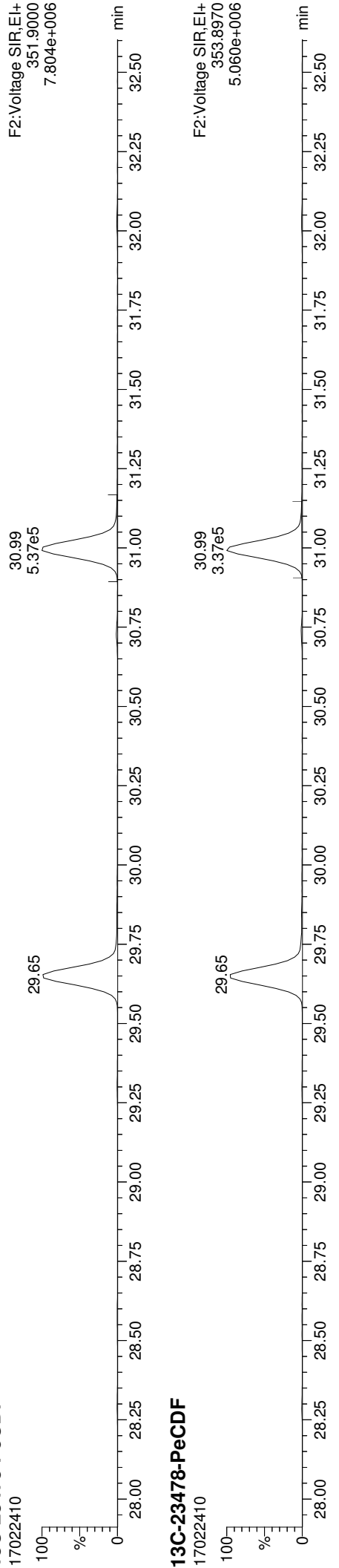


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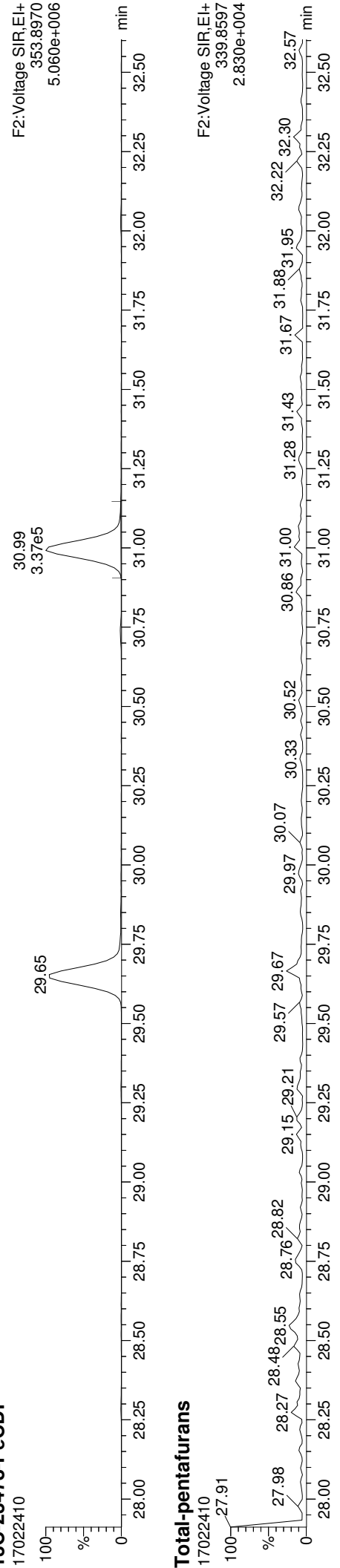
MassLynx MassLynx V4.1 SCN909

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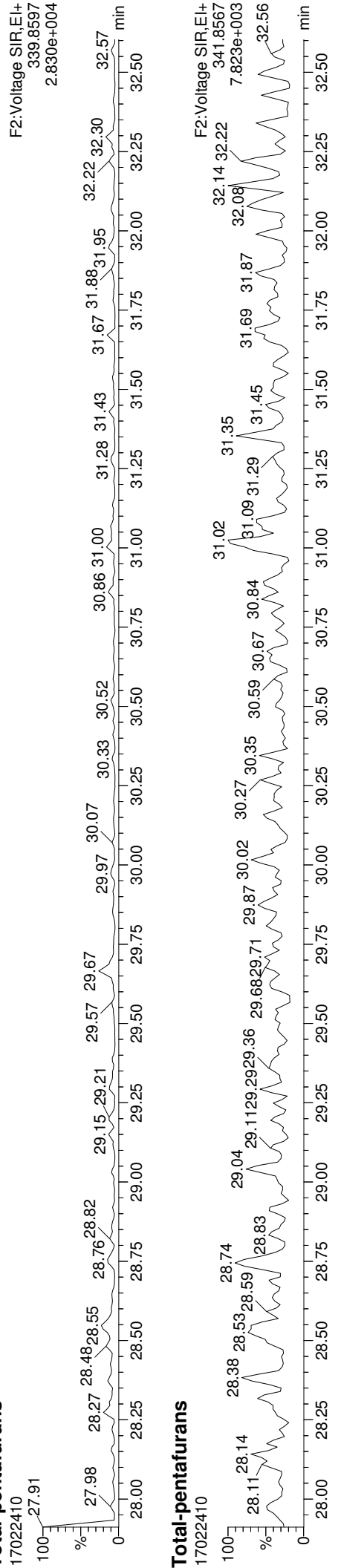
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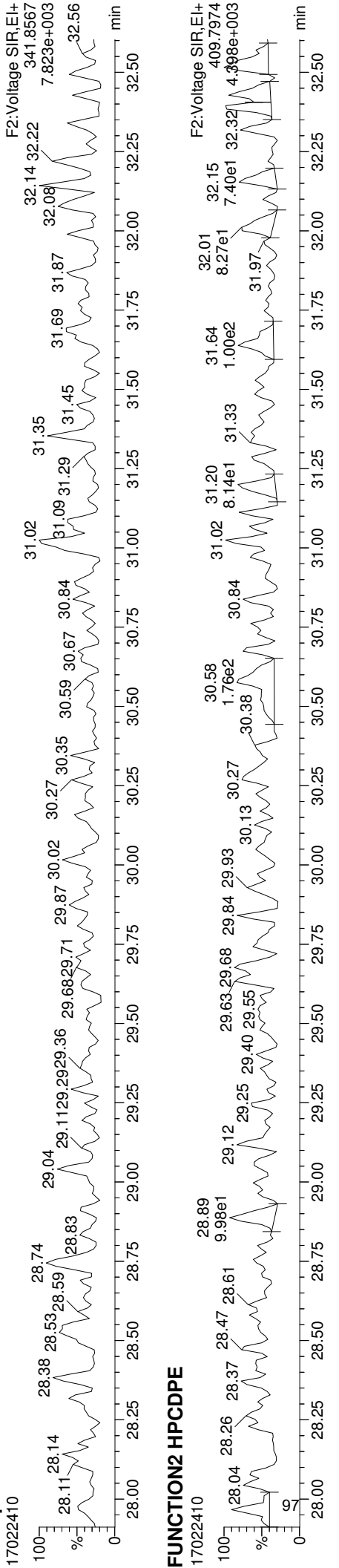
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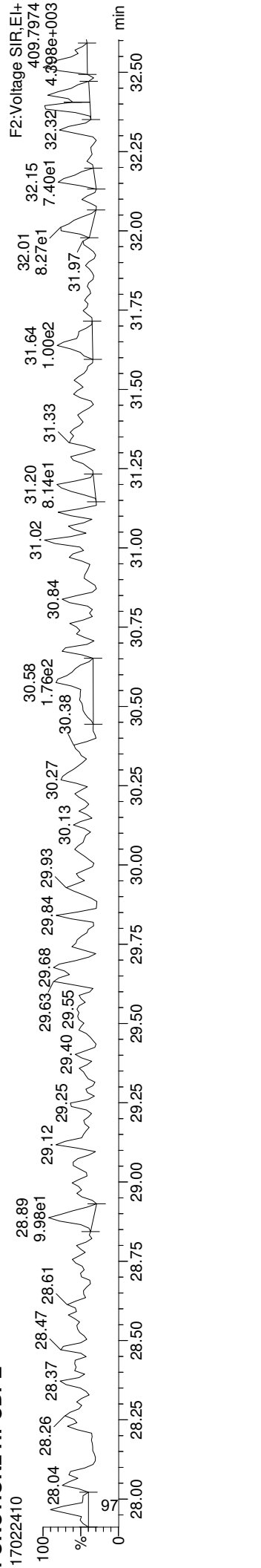
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

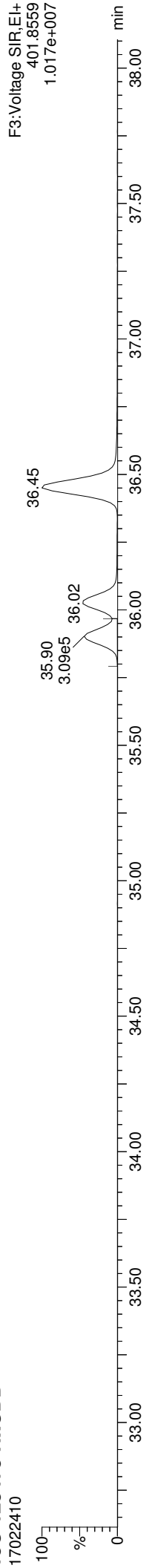


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

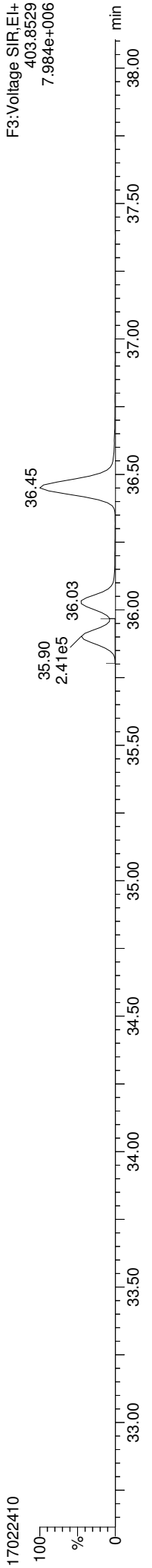
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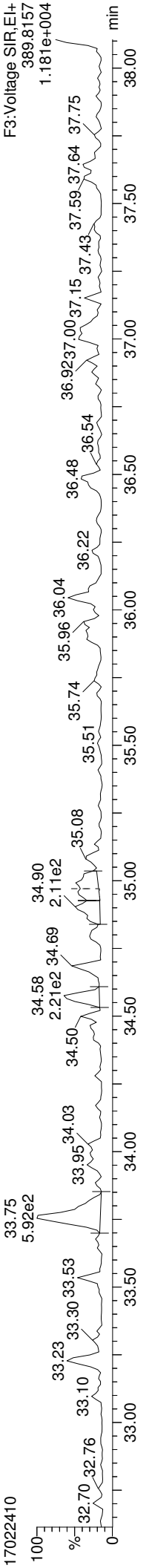
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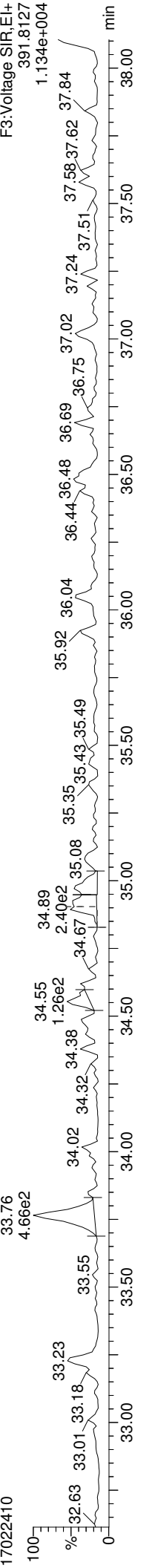
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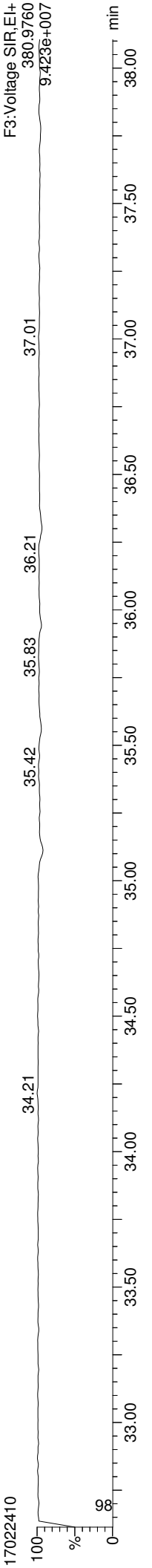
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

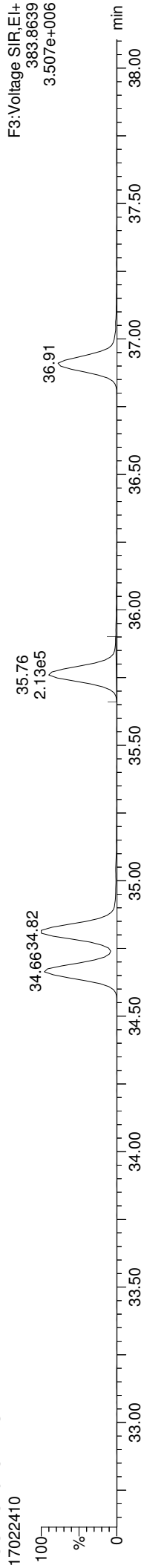


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

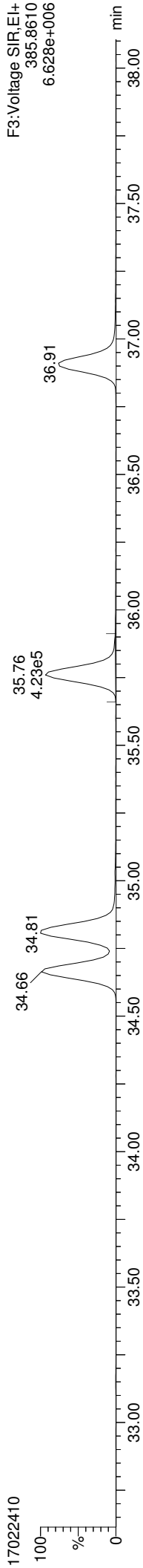
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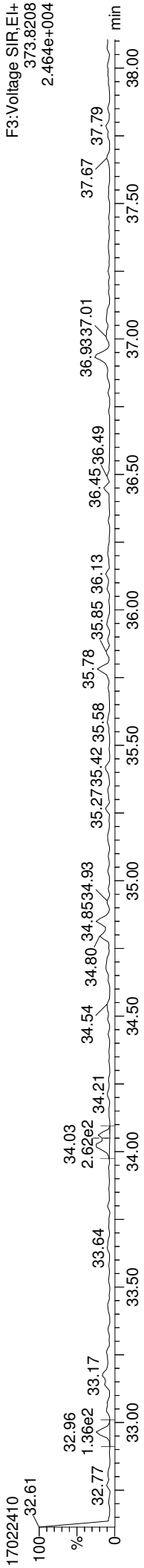
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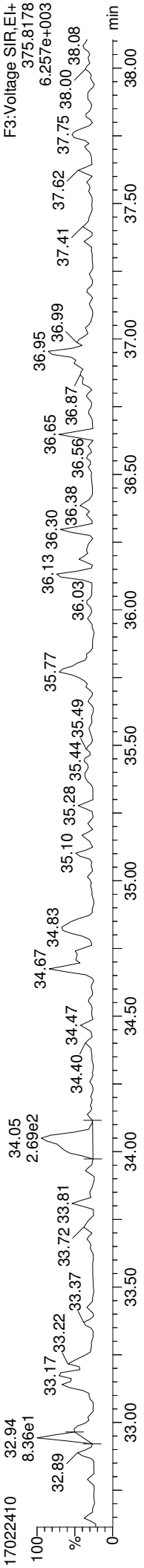
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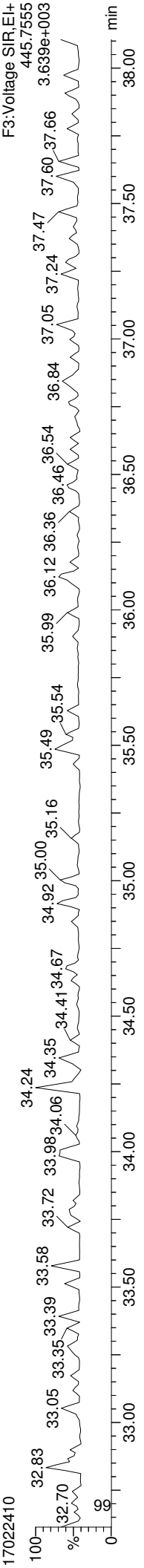
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



Quantify Sample Report

MassLynx MassLynx V4.1 SCN909

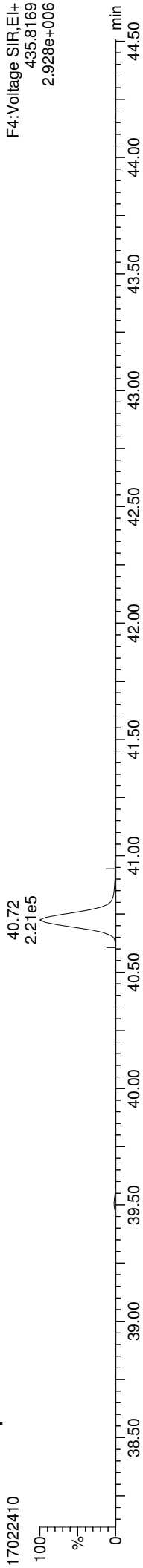
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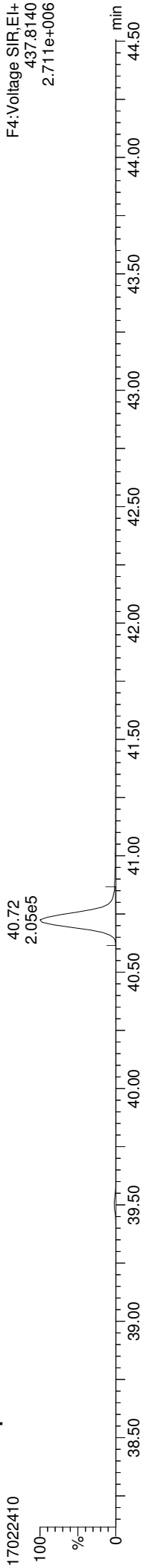
Printed: Monday, February 27, 2017 12:18:14 Pacific Standard Time

ID: 16K0053-06RE1, Name: 17022410, Date: 24-Feb-2017, Time: 21:11:58, Conditions: AUTOSPEC01, User: PK

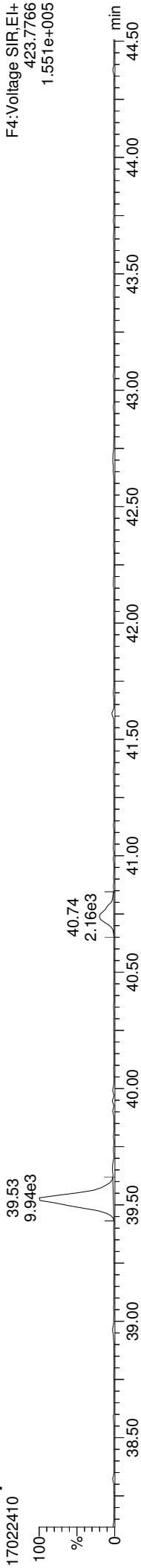
13C-1234678-HpCDD



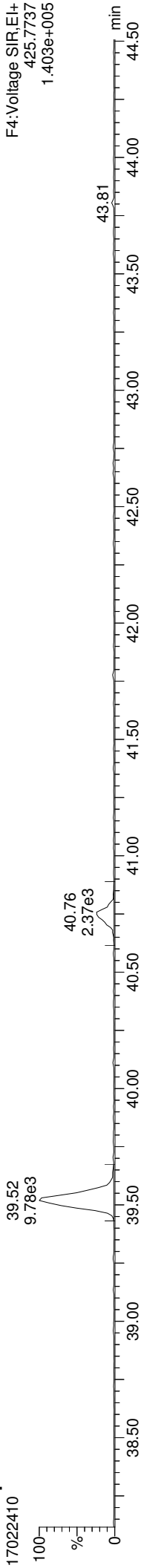
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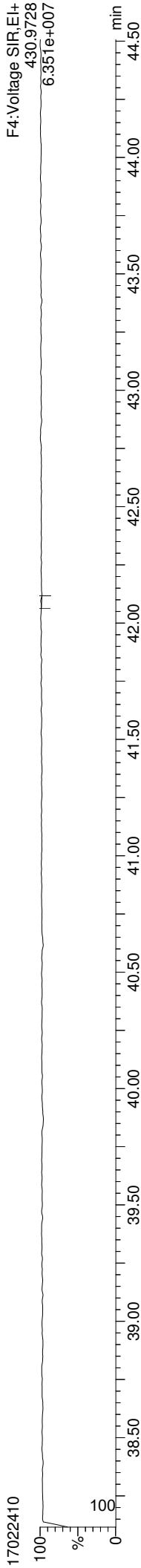
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

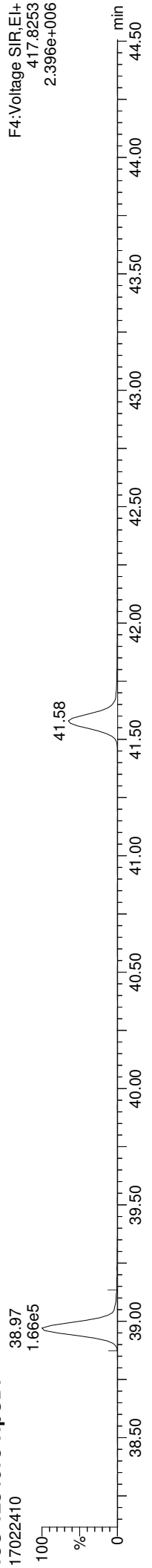


Quantify Sample Report

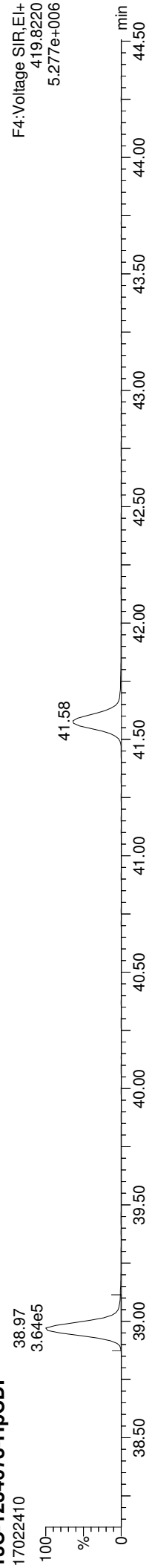
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:14 Pacific Standard Time

ID: 16K0053-06RE1, Name: 17022410, Date: 24-Feb-2017, Time: 21:11:58, Conditions: AUTOSPEC01, User: PK

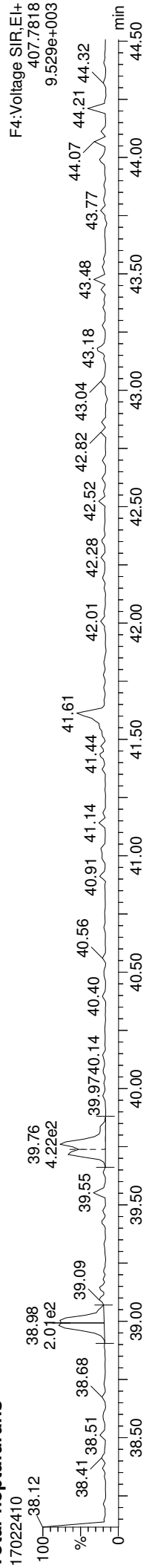
13C-1234678-HpCDF



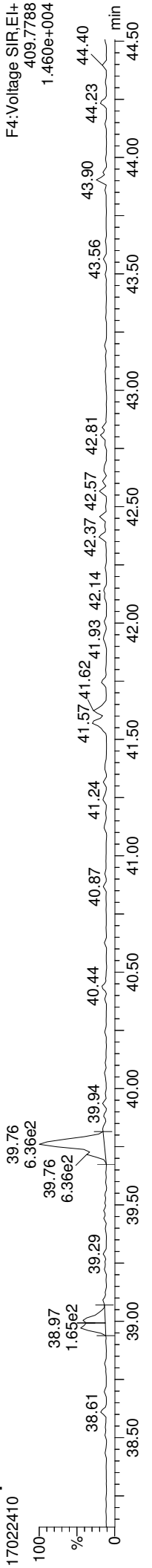
13C-1234678-HpCDF



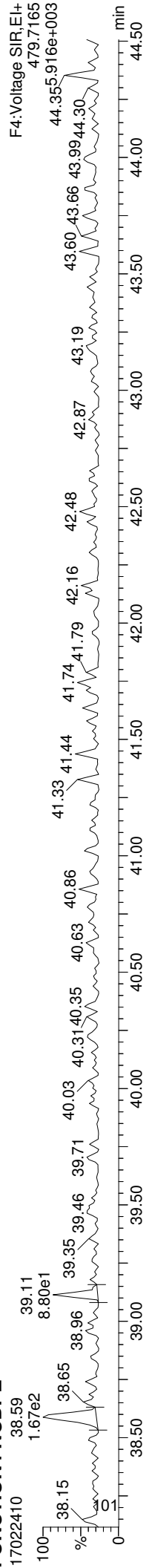
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

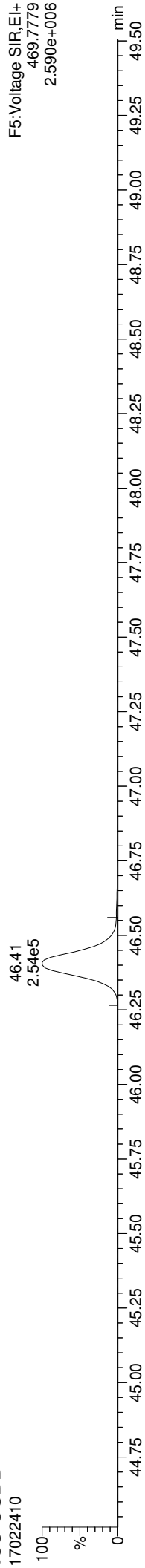


Quantify Sample Report

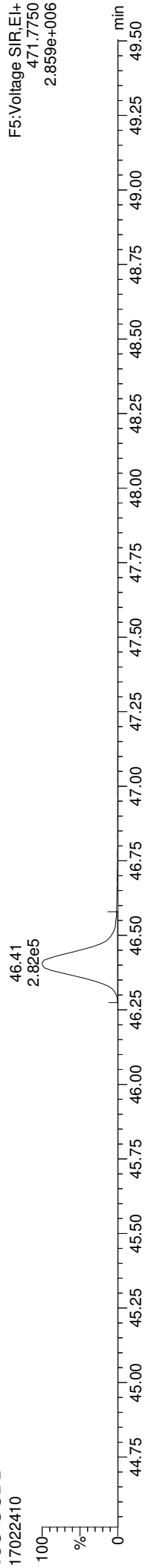
MassLynx MassLynx V4.1 SCN909
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:14 Pacific Standard Time

ID: 16K0053-06RE1, Name: 17022410, Date: 24-Feb-2017, Time: 21:11:58, Conditions: AUTOSPEC01, User: PK

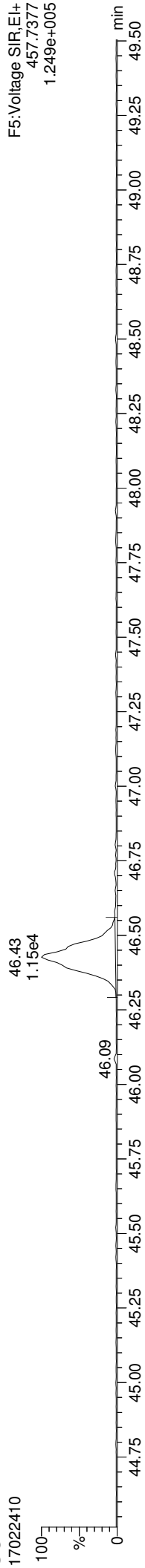
13C-OCDD



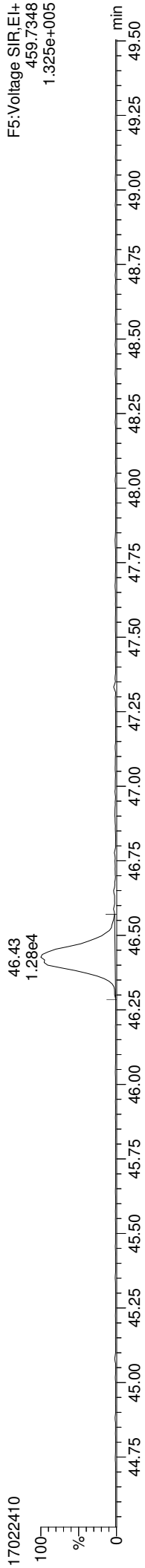
13C-OCDD



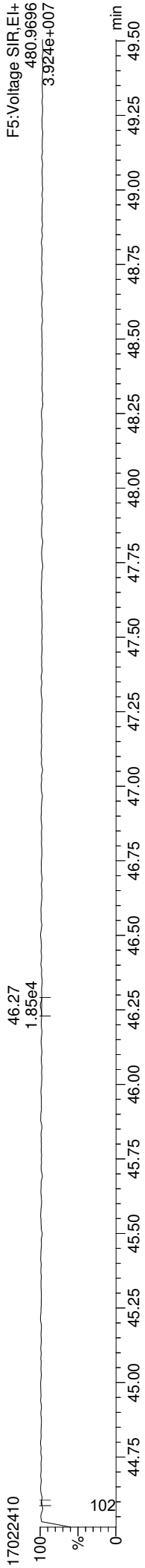
OCDD



OCDD



FUNCTION5 PFK

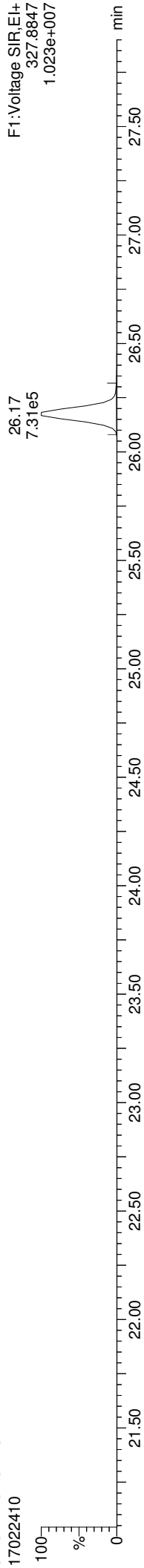


Quantify Sample Report

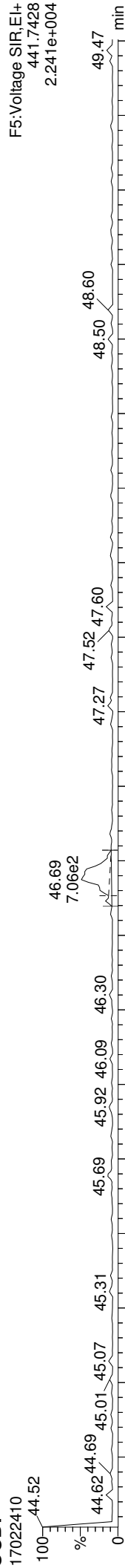
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:14 Pacific Standard Time

ID: 16K0053-06RE1, Name: 17022410, Date: 24-Feb-2017, Time: 21:11:58, Conditions: AUTOSPEC01, User: PK

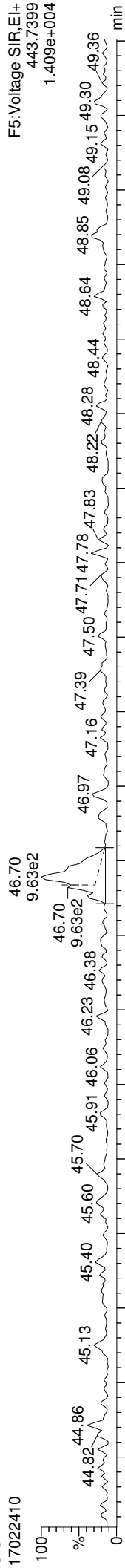
37CL-2378-TCDD



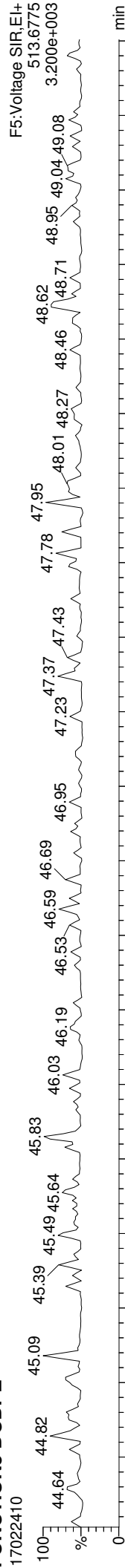
OCDF



OCDF



FUNCTION5 DCDPE





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-07RE1</u>
Sampled:	<u>01/05/17 12:30</u>	File ID:	<u>17022411</u>
Solids Wt%:		Prepared:	<u>02/22/17 12:00</u>
Result Basis:	<u>Dry</u>	Analyzed:	<u>02/24/17 22:05</u>
Batch:	<u>BFB0538</u>	Preparation:	<u>EPA 1613</u>
		Initial/Final:	<u>10.03 g / 20 uL</u>
		Sequence:	<u>SFB0342</u>
		Calibration:	<u>AA00071</u>
		Instrument:	<u>AUTOSPEC01</u>
		Column:	<u>RTX-Dioxin2</u>

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.145	0.997	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.127	0.997	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	1.701	1.318-1.783		4.99	0.147	ng/kg	J
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.147	4.99	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.187	4.99	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.155	4.99	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.153	4.99	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.162	4.99	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.375	1.054-1.426		4.99	0.153	ng/kg	J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.871	1.054-1.426		4.99	0.271	ng/kg	EMPC, J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.111	1.054-1.426		4.99	0.314	ng/kg	J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.330	1.054-1.426		4.99	0.357	ng/kg	J, B
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.051	0.893-1.208		4.99	0.530	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.251	0.893-1.208		4.99	0.238	ng/kg	EMPC, J, B
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.154	0.893-1.208		4.99	1.99	ng/kg	J, B
39001-02-0	OCDF	1	0.816	0.757-1.024		9.97	1.48	ng/kg	J, B
3268-87-9	OCDD	1	0.944	0.757-1.024		9.97	15.0	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.997	0.521	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.997	0.524	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.997	0.223	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.997	ND	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.997	0.473	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.997	1.32	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.997	1.26	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.997	6.40	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.146
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.146



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-07RE1</u>
Sampled:	<u>01/05/17 12:30</u>	Prepared:	<u>02/22/17 12:00</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFB0342</u>
Batch:	<u>BFB0538</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17022411</u>
		Analyzed:	<u>02/24/17 22:05</u>
		Initial/Final:	<u>10.03 g / 20 uL</u>
		Calibration:	<u>AA00071</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.788	0.655-0.886		31.3	24 - 169 %	
13C12-2,3,7,8-TCDD		0.773	0.655-0.886		32.2	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.568	1.318-1.783		30.5	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.563	1.318-1.783		30.7	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.561	1.318-1.783		32.0	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.517	0.434-0.587		26.5	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.527	0.434-0.587		26.9	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.523	0.434-0.587		26.8	28 - 136 %	*
13C12-1,2,3,7,8,9-HxCDF		0.504	0.434-0.587		31.4	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.275	1.054-1.426		28.3	32 - 141 %	*
13C12-1,2,3,6,7,8-HxCDD		1.264	1.054-1.426		29.2	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.471	0.374-0.506		27.4	28 - 143 %	*
13C12-1,2,3,4,7,8,9-HpCDF		0.463	0.374-0.506		32.9	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.043	0.893-1.208		30.5	23 - 140 %	
13C12-OCDD		0.894	0.757-1.024		27.6	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			97.2	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF				0.924			0.770	1021	1680					
12378-PeCDF	29.666	1.001	3.12e2	1.83e2	0.954	1.701	1.550	1017	1368	8.29e3	4.28e3	8.2	NO	0.074
23478-PeCDF				0.966			1.550	1017	1368					
123478-HxCDF				1.141			1.240	1762	612					
234678-HxCDF				1.181			1.240	1762	612					
123678-HxCDF				1.089			1.240	1762	612					
123789-HxCDF	36.901	1.000	2.46e2	1.79e2	1.110	1.375	1.240	1762	612	7.22e3	3.46e3	4.1	NO	0.077
1234678-HpCDF	38.972	1.000	7.82e2	7.44e2	1.267	1.051	1.050	824	344	1.58e4	1.23e4	19.2	NO	0.266
1234789-HpCDF	41.592	1.000	3.05e2	2.44e2	1.295	1.251	1.050	824	344	4.16e3	7.60e3	5.0	YES	0.120
OCDF	46.697	1.006	9.13e2	1.12e3	1.067	0.816	0.890	460	951	1.46e4	1.26e4	31.7	NO	0.740
2378-TCDD				1.150			0.770	1131	696					
12378-PeCDD				1.017			1.550	1507	536					
123478-HxCDD	35.914	1.001	2.87e2	3.29e2	1.017	0.871	1.240	1307	1510	4.41e3	8.48e3	3.4	YES	0.136
123678-HxCDD	36.035	1.000	3.86e2	3.48e2	0.964	1.111	1.240	1307	1510	8.87e3	6.19e3	6.8	NO	0.158
123789-HxCDD	36.440	1.012	4.49e2	3.38e2	0.948	1.330	1.240	1307	1510	6.85e3	4.96e3	5.2	NO	0.179
1234678-HpCDD	40.737	1.000	2.13e3	1.84e3	1.051	1.154	1.050	835	705	2.89e4	2.66e4	34.6	NO	0.998
OCDD	46.410	1.000	9.65e3	1.02e4	1.030	0.944	0.890	379	739	9.90e4	1.06e5	261.4	NO	7.505
13C-2378-TCDF	25.525	1.007	3.77e5	4.79e5	1.515	0.788	0.770	8464	3622	5.32e6	6.79e6	629.0	NO	31.291
13C-12378-PeCDF	29.644	1.170	4.30e5	2.74e5	1.276	1.568	1.550	3690	1900	6.34e6	3.92e6	1717.9	NO	30.541
13C-23478-PeCDF	30.992	1.223	4.25e5	2.72e5	1.257	1.563	1.550	3690	1900	6.14e6	3.94e6	1663.5	NO	30.701
13C-123478-HxCDF	34.665	0.951	1.84e5	3.56e5	1.431	0.517	0.510	2602	2932	2.73e6	5.32e6	1050.9	NO	26.510
13C-123678-HxCDF	34.807	0.955	2.05e5	3.90e5	1.552	0.527	0.510	2602	2932	2.95e6	5.66e6	1132.8	NO	26.938
13C-234678-HxCDF	35.761	0.981	1.77e5	3.38e5	1.349	0.523	0.510	2602	2932	2.55e6	5.03e6	979.2	NO	26.846
13C-123789-HxCDF	36.901	1.012	1.66e5	3.30e5	1.111	0.504	0.510	2602	2932	2.38e6	4.66e6	913.5	NO	31.408
13C-1234678-HpCDF	38.961	1.069	1.45e5	3.08e5	1.160	0.471	0.440	1436	2172	2.09e6	4.65e6	1456.4	NO	27.438
13C-1234789-HpCDF	41.570	1.140	1.12e5	2.43e5	0.758	0.463	0.440	1436	2172	1.42e6	3.15e6	990.2	NO	32.898
13C-1234-TCDD	25.346	0.000	8.03e5	1.00e6	1.000	0.800	0.770	3015	1819	1.19e7	1.48e7	3933.0	NO	100.000
13C-2378-TCDD	26.153	1.032	2.21e5	2.87e5	0.872	0.773	0.770	3015	1819	3.26e6	4.13e6	1081.6	NO	32.242
13C-12378-PeCDD	31.244	1.233	2.66e5	1.70e5	0.754	1.561	1.550	1554	1747	3.93e6	2.47e6	2527.0	NO	32.005
13C-123478-HxCDD	35.892	0.985	2.49e5	1.96e5	1.106	1.275	1.240	2523	2364	3.65e6	2.94e6	1448.5	NO	28.257
13C-123678-HxCDD	36.024	0.988	2.70e5	2.13e5	1.165	1.264	1.240	2523	2364	3.81e6	3.09e6	1509.5	NO	29.150
13C-1234678-HpCDD	40.715	1.117	1.93e5	1.85e5	0.872	1.043	1.050	2308	2012	2.55e6	2.47e6	1104.1	NO	30.472
13C-OCDD	46.401	1.273	2.43e5	2.72e5	0.655	0.894	0.890	1636	1921	2.48e6	2.82e6	1514.1	NO	55.120
13C-123789-HxCDD	36.451	0.000	7.90e5	6.34e5	1.000	1.246	1.240	2523	2364	1.15e7	9.17e6	4542.6	NO	100.000
Total-tetrafurans			8.79e2	0.924				1021		1.37e4				0.261

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			0.00e0					1479		0.00e0				
Total-pentafurans			3.97e2		0.960			1017		1.09e4				0.112
Total-hexafurans			8.43e2		1.130			1762		1.72e4				0.237
Total-heptafurans			1.62e3		1.281			824		2.81e4				0.631
Total-Furans			4.65e3		1.100			1021		8.45e4				1.981
Total-tetradioxins			6.15e2		1.150			1131		7.69e3				0.263
Total-pentadioxins			0.00e0		1.017			1507		0.00e0				0.660
Total-hexadioxins			1.59e3		0.977			1307		2.81e4				3.208
Total-heptadioxins			6.69e3		1.051			835		8.83e4				11.636
Total-Dioxins			1.85e4		1.025			1131		2.23e5				13.618
Total-TEQ			2.32e4					1131		3.08e5				38.871
37CL-2378-TCDD	26.168	1.032	7.53e5		1.073			1725		1.07e7		6222.3		
FUNCTION1 PFK			1.34e6					709689		2.45e7				0.000
FUNCTION2 PFK			1.72e5					190584		6.08e6				0.000
FUNCTION3 PFK			7.98e5					503795		1.62e7				0.000
FUNCTION4 PFK			1.43e5					372247		6.00e6				
FUNCTION5 PFK			2.31e5					294085		7.79e6				
FUNCTION1 HXCD...			3.94e3					554		4.65e4				0.000
FUNCTION1 HPCD...			1.61e3					917		3.01e4				0.000
FUNCTION2 HPCD...			1.13e3					1195		3.42e4				0.000
FUNCTION3 OCDPE			0.00e0					336		0.00e0				
FUNCTION4 NCDPE			3.23e2					654		7.61e3				0.000
FUNCTION5 DCDPE			0.00e0					329		0.00e0				

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	25.56	462.637	0.924	0.058		1.12	0.77	YES	3.8
2	35 Total-tetrafurans	303.9016	24.43	875.214	0.924	0.111		0.35	0.77	YES	3.9
3	35 Total-tetrafurans	303.9016	22.90	729.570	0.924	0.092		1.29	0.77	YES	5.7

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	2 12378-PeCDF	339.8597	29.67	495.177	0.954	0.074	0.074	1.70	1.55	NO	8.2
2	37 Total-pentafurans	339.8597	29.61	255.196	0.960	0.038		0.50	1.55	YES	2.6

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7 123789-HxCDF	373.8208	36.90	424.372	1.110	0.077	0.077	1.37	1.24	NO	4.1
2	38 Total-hexafurans	373.8208	34.05	973.662	1.130	0.160		1.59	1.24	YES	5.7

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	41.59	549.196	1.295	0.120	0.109	1.25	1.05	YES	5.0
2	39 Total-heptafurans	407.7818	39.76	1268.085	1.281	0.245		0.73	1.05	YES	9.9
3	8 1234678-HpCDF	407.7818	38.97	1525.920	1.267	0.266	0.266	1.05	1.05	NO	19.2

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	25.56	462.637	0.924	0.058		1.12	0.77	YES	3.8
2	35 Total-tetrafurans	303.9016	24.43	875.214	0.924	0.111		0.35	0.77	YES	3.9
3	35 Total-tetrafurans	303.9016	22.90	729.570	0.924	0.092		1.29	0.77	YES	5.7
4	2 12378-PeCDF	339.8597	29.67	495.177	0.954	0.074	0.074	1.70	1.55	NO	8.2
5	37 Total-pentafurans	339.8597	29.61	255.196	0.960	0.038		0.50	1.55	YES	2.6
6	7 123789-HxCDF	373.8208	36.90	424.372	1.110	0.077	0.077	1.37	1.24	NO	4.1
7	38 Total-hexafurans	373.8208	34.05	973.662	1.130	0.160		1.59	1.24	YES	5.7
8	10 OCDF	441.7428	46.70	2031.350	1.067	0.740	0.740	0.82	0.89	NO	31.7
9	9 1234789-HpCDF	407.7818	41.59	549.196	1.295	0.120	0.109	1.25	1.05	YES	5.0
10	39 Total-heptafurans	407.7818	39.76	1268.085	1.281	0.245		0.73	1.05	YES	9.9
11	8 1234678-HpCDF	407.7818	38.97	1525.920	1.267	0.266	0.266	1.05	1.05	NO	19.2

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	23.34	954.247	1.150	0.163		0.48	0.77	YES	3.4
2	41 Total-tetradioxins	319.8965	25.79	580.596	1.150	0.099		1.12	0.77	YES	3.3

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

PD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	33.77	851.346	0.977	0.188		1.24	1.24	NO	6.1
2	15 123789-HxCDD	389.8157	36.44	787.364	0.948	0.179	0.179	1.33	1.24	NO	5.2
3	14 123678-HxCDD	389.8157	36.03	734.126	0.964	0.158	0.158	1.11	1.24	NO	6.8
4	13 123478-HxCDD	389.8157	35.91	615.439	1.017	0.136	0.114	0.87	1.24	YES	3.4

HPD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	40.74	3967.066	1.051	0.998	0.998	1.15	1.05	NO	34.6
2	44 Total-heptadioxins	423.7766	39.52	8786.340	1.051	2.210		1.08	1.05	NO	71.2

Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	23.34	954.247	1.150	0.163		0.48	0.77	YES	3.4
2	41 Total-tetradioxins	319.8965	25.79	580.596	1.150	0.099		1.12	0.77	YES	3.3
3	43 Total-hexadioxins	389.8157	33.77	851.346	0.977	0.188		1.24	1.24	NO	6.1
4	15 123789-HxCDD	389.8157	36.44	787.364	0.948	0.179	0.179	1.33	1.24	NO	5.2
5	14 123678-HxCDD	389.8157	36.03	734.126	0.964	0.158	0.158	1.11	1.24	NO	6.8
6	13 123478-HxCDD	389.8157	35.91	615.439	1.017	0.136	0.114	0.87	1.24	YES	3.4
7	16 1234678-HpCDD	423.7766	40.74	3967.066	1.051	0.998	0.998	1.15	1.05	NO	34.6
8	44 Total-heptadioxins	423.7766	39.52	8786.340	1.051	2.210		1.08	1.05	NO	71.2
9	17 OCDD	457.7377	46.41	19872.848	1.030	7.505	7.505	0.94	0.89	NO	261.4

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	25.56	462.637	0.924	0.058		1.12	0.77	YES	3.8
2	35 Total-tetrafurans	303.9016	24.43	875.214	0.924	0.111		0.35	0.77	YES	3.9
3	35 Total-tetrafurans	303.9016	22.90	729.570	0.924	0.092		1.29	0.77	YES	5.7
4	2 12378-PeCDF	339.8597	29.67	495.177	0.954	0.074	0.074	1.70	1.55	NO	8.2
5	37 Total-pentafurans	339.8597	29.61	255.196	0.960	0.038		0.50	1.55	YES	2.6
6	7 123789-HxCDF	373.8208	36.90	424.372	1.110	0.077	0.077	1.37	1.24	NO	4.1
7	38 Total-hexafurans	373.8208	34.05	973.662	1.130	0.160		1.59	1.24	YES	5.7
8	10 OCDF	441.7428	46.70	2031.350	1.067	0.740	0.740	0.82	0.89	NO	31.7
9	9 1234789-HpCDF	407.7818	41.59	549.196	1.295	0.120	0.109	1.25	1.05	YES	5.0
10	39 Total-heptafurans	407.7818	39.76	1268.085	1.281	0.245		0.73	1.05	YES	9.9
11	8 1234678-HpCDF	407.7818	38.97	1525.920	1.267	0.266	0.266	1.05	1.05	NO	19.2
12	41 Total-tetradioxins	319.8965	23.34	954.247	1.150	0.163		0.48	0.77	YES	3.4
13	41 Total-tetradioxins	319.8965	25.79	580.596	1.150	0.099		1.12	0.77	YES	3.3
14	43 Total-hexadioxins	389.8157	33.77	851.346	0.977	0.188		1.24	1.24	NO	6.1
15	15 123789-HxCDD	389.8157	36.44	787.364	0.948	0.179	0.179	1.33	1.24	NO	5.2
16	14 123678-HxCDD	389.8157	36.03	734.126	0.964	0.158	0.158	1.11	1.24	NO	6.8
17	13 123478-HxCDD	389.8157	35.91	615.439	1.017	0.136	0.114	0.87	1.24	YES	3.4
18	16 1234678-HpCDD	423.7766	40.74	3967.066	1.051	0.998	0.998	1.15	1.05	NO	34.6
19	44 Total-heptadioxins	423.7766	39.52	8786.340	1.051	2.210		1.08	1.05	NO	71.2
20	17 OCDD	457.7377	46.41	19872.848	1.030	7.505	7.505	0.94	0.89	NO	261.4

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	23.73	0.000							1.7
2	48 FUNCTION1 PFK	330.9792	23.60	0.000							1.9
3	48 FUNCTION1 PFK	330.9792	23.27	0.000							2.0
4	48 FUNCTION1 PFK	330.9792	23.10	0.000							2.1
5	48 FUNCTION1 PFK	330.9792	22.90	0.000							1.0
6	48 FUNCTION1 PFK	330.9792	22.84	0.000							2.1
7	48 FUNCTION1 PFK	330.9792	22.01	0.000							1.1
8	48 FUNCTION1 PFK	330.9792	21.67	0.000							1.0
9	48 FUNCTION1 PFK	330.9792	21.58	0.000							1.2
10	48 FUNCTION1 PFK	330.9792	21.51	0.000							1.4
11	48 FUNCTION1 PFK	330.9792	21.22	0.000							1.5
12	48 FUNCTION1 PFK	330.9792	27.81	0.000							1.3
13	48 FUNCTION1 PFK	330.9792	27.72	0.000							0.9
14	48 FUNCTION1 PFK	330.9792	27.11	0.000							1.3
15	48 FUNCTION1 PFK	330.9792	26.93	0.000							1.6
16	48 FUNCTION1 PFK	330.9792	26.81	0.000							1.2
17	48 FUNCTION1 PFK	330.9792	25.85	0.000							0.6
18	48 FUNCTION1 PFK	330.9792	25.75	0.000							1.8
19	48 FUNCTION1 PFK	330.9792	25.67	0.000							2.0
20	48 FUNCTION1 PFK	330.9792	25.48	0.000							1.2
21	48 FUNCTION1 PFK	330.9792	25.23	0.000							0.6
22	48 FUNCTION1 PFK	330.9792	25.17	0.000							0.6
23	48 FUNCTION1 PFK	330.9792	24.64	0.000							1.3
24	48 FUNCTION1 PFK	330.9792	24.40	0.000							0.5
25	48 FUNCTION1 PFK	330.9792	24.34	0.000							0.4
26	48 FUNCTION1 PFK	330.9792	24.17	0.000							0.7
27	48 FUNCTION1 PFK	330.9792	24.05	0.000							1.5

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	30.25	0.000		0.000					1.0
2	49 FUNCTION2 PFK	366.9792	30.20	0.000		0.000					0.9
3	49 FUNCTION2 PFK	366.9792	30.16	0.000		0.000					1.7
4	49 FUNCTION2 PFK	366.9792	29.87	0.000		0.000					1.8
5	49 FUNCTION2 PFK	366.9792	29.81	0.000		0.000					1.6
6	49 FUNCTION2 PFK	366.9792	29.67	0.000		0.000					1.0
7	49 FUNCTION2 PFK	366.9792	29.49	0.000		0.000					1.3
8	49 FUNCTION2 PFK	366.9792	29.17	0.000		0.000					0.8
9	49 FUNCTION2 PFK	366.9792	29.06	0.000		0.000					0.5
10	49 FUNCTION2 PFK	366.9792	28.73	0.000		0.000					2.0
11	49 FUNCTION2 PFK	366.9792	28.64	0.000		0.000					0.6
12	49 FUNCTION2 PFK	366.9792	28.55	0.000		0.000					1.1
13	49 FUNCTION2 PFK	366.9792	28.39	0.000		0.000					2.1
14	49 FUNCTION2 PFK	366.9792	28.34	0.000		0.000					2.1
15	49 FUNCTION2 PFK	366.9792	28.12	0.000		0.000					1.6
16	49 FUNCTION2 PFK	366.9792	32.52	0.000		0.000					0.9
17	49 FUNCTION2 PFK	366.9792	32.30	0.000		0.000					0.9
18	49 FUNCTION2 PFK	366.9792	32.01	0.000		0.000					0.6
19	49 FUNCTION2 PFK	366.9792	31.67	0.000		0.000					0.9
20	49 FUNCTION2 PFK	366.9792	31.10	0.000		0.000					1.3
21	49 FUNCTION2 PFK	366.9792	31.01	0.000		0.000					2.0
22	49 FUNCTION2 PFK	366.9792	30.89	0.000		0.000					1.3
23	49 FUNCTION2 PFK	366.9792	30.82	0.000		0.000					0.6
24	49 FUNCTION2 PFK	366.9792	30.76	0.000		0.000					1.2
25	49 FUNCTION2 PFK	366.9792	30.66	0.000		0.000					0.5
26	49 FUNCTION2 PFK	366.9792	30.59	0.000		0.000					1.5

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	33.68	0.000		0.000					2.0
2	50 FUNCTION3 PFK	380.9760	33.63	0.000		0.000					0.6
3	50 FUNCTION3 PFK	380.9760	33.40	0.000		0.000					0.4
4	50 FUNCTION3 PFK	380.9760	33.31	0.000		0.000					1.4
5	50 FUNCTION3 PFK	380.9760	37.04	0.000		0.000					0.8
6	50 FUNCTION3 PFK	380.9760	36.98	0.000		0.000					0.5
7	50 FUNCTION3 PFK	380.9760	36.29	0.000		0.000					1.8
8	50 FUNCTION3 PFK	380.9760	36.18	0.000		0.000					1.0
9	50 FUNCTION3 PFK	380.9760	36.11	0.000		0.000					0.4
10	50 FUNCTION3 PFK	380.9760	35.53	0.000		0.000					1.6
11	50 FUNCTION3 PFK	380.9760	34.99	0.000		0.000					1.3
12	50 FUNCTION3 PFK	380.9760	34.82	0.000		0.000					0.4
13	50 FUNCTION3 PFK	380.9760	34.73	0.000		0.000					0.7
14	50 FUNCTION3 PFK	380.9760	34.59	0.000		0.000					0.7
15	50 FUNCTION3 PFK	380.9760	34.51	0.000		0.000					1.8
16	50 FUNCTION3 PFK	380.9760	34.40	0.000		0.000					0.6
17	50 FUNCTION3 PFK	380.9760	34.32	0.000		0.000					0.6
18	50 FUNCTION3 PFK	380.9760	34.15	0.000		0.000					2.8
19	50 FUNCTION3 PFK	380.9760	34.00	0.000		0.000					2.4
20	50 FUNCTION3 PFK	380.9760	33.86	0.000		0.000					2.0
21	50 FUNCTION3 PFK	380.9760	37.89	0.000		0.000					1.6
22	50 FUNCTION3 PFK	380.9760	37.79	0.000		0.000					1.8
23	50 FUNCTION3 PFK	380.9760	37.71	0.000		0.000					1.8
24	50 FUNCTION3 PFK	380.9760	37.68	0.000		0.000					1.5
25	50 FUNCTION3 PFK	380.9760	37.40	0.000		0.000					0.6
26	50 FUNCTION3 PFK	380.9760	37.22	0.000		0.000					0.9

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	41.91	0.000							0.7
2	51 FUNCTION4 PFK	430.9728	40.86	0.000							1.0
3	51 FUNCTION4 PFK	430.9728	40.57	0.000							0.7
4	51 FUNCTION4 PFK	430.9728	40.34	0.000							1.6
5	51 FUNCTION4 PFK	430.9728	39.64	0.000							1.8
6	51 FUNCTION4 PFK	430.9728	39.01	0.000							0.6
7	51 FUNCTION4 PFK	430.9728	38.82	0.000							0.9
8	51 FUNCTION4 PFK	430.9728	38.67	0.000							1.6
9	51 FUNCTION4 PFK	430.9728	38.39	0.000							1.3
10	51 FUNCTION4 PFK	430.9728	43.87	0.000							1.5
11	51 FUNCTION4 PFK	430.9728	43.60	0.000							0.9
12	51 FUNCTION4 PFK	430.9728	43.50	0.000							0.9
13	51 FUNCTION4 PFK	430.9728	42.67	0.000							0.8
14	51 FUNCTION4 PFK	430.9728	42.62	0.000							1.7

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	46.14	0.000							2.2
2	52 FUNCTION5 PFK	480.9696	46.06	0.000							1.1
3	52 FUNCTION5 PFK	480.9696	46.02	0.000							1.3
4	52 FUNCTION5 PFK	480.9696	45.94	0.000							0.5
5	52 FUNCTION5 PFK	480.9696	45.86	0.000							1.2
6	52 FUNCTION5 PFK	480.9696	45.50	0.000							0.9
7	52 FUNCTION5 PFK	480.9696	45.30	0.000							0.6
8	52 FUNCTION5 PFK	480.9696	45.20	0.000							1.7
9	52 FUNCTION5 PFK	480.9696	44.69	0.000							1.8
10	52 FUNCTION5 PFK	480.9696	44.62	0.000							1.0
11	52 FUNCTION5 PFK	480.9696	49.44	0.000							1.4
12	52 FUNCTION5 PFK	480.9696	48.61	0.000							1.5
13	52 FUNCTION5 PFK	480.9696	48.56	0.000							2.5
14	52 FUNCTION5 PFK	480.9696	47.94	0.000							1.3
15	52 FUNCTION5 PFK	480.9696	47.81	0.000							1.9
16	52 FUNCTION5 PFK	480.9696	47.42	0.000							1.0
17	52 FUNCTION5 PFK	480.9696	47.05	0.000							0.8
18	52 FUNCTION5 PFK	480.9696	46.90	0.000							1.6
19	52 FUNCTION5 PFK	480.9696	46.68	0.000							1.4
20	52 FUNCTION5 PFK	480.9696	46.26	0.000							0.8

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	25.93	0.000		0.000					4.4
2	53 FUNCTION1 HXCD...	375.8364	25.61	0.000		0.000					59.3
3	53 FUNCTION1 HXCD...	375.8364	25.33	0.000		0.000					15.6
4	53 FUNCTION1 HXCD...	375.8364	24.17	0.000		0.000					4.7

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	26.26	0.000		0.000					3.4
2	54 FUNCTION1 HPCD...	409.7974	23.79	0.000		0.000					3.1
3	54 FUNCTION1 HPCD...	409.7974	23.39	0.000		0.000					3.4
4	54 FUNCTION1 HPCD...	409.7974	23.08	0.000		0.000					3.9
5	54 FUNCTION1 HPCD...	409.7974	21.86	0.000		0.000					19.1

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	31.63	0.000		0.000					2.0
2	55 FUNCTION2 HPCD...	409.7974	30.55	0.000		0.000					1.2
3	55 FUNCTION2 HPCD...	409.7974	30.25	0.000		0.000					3.9
4	55 FUNCTION2 HPCD...	409.7974	30.18	0.000		0.000					3.1
5	55 FUNCTION2 HPCD...	409.7974	29.31	0.000		0.000					2.5
6	55 FUNCTION2 HPCD...	409.7974	29.21	0.000		0.000					2.3
7	55 FUNCTION2 HPCD...	409.7974	29.13	0.000		0.000					3.0
8	55 FUNCTION2 HPCD...	409.7974	28.81	0.000		0.000					2.0
9	55 FUNCTION2 HPCD...	409.7974	28.33	0.000		0.000					2.9
10	55 FUNCTION2 HPCD...	409.7974	28.19	0.000		0.000					2.4
11	55 FUNCTION2 HPCD...	409.7974	31.88	0.000		0.000					3.4

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	42.41	0.000		0.000					3.1
2	57 FUNCTION4 NCDPE	479.7165	42.34	0.000		0.000					4.4
3	57 FUNCTION4 NCDPE	479.7165	38.60	0.000		0.000					4.2

ETHERS6

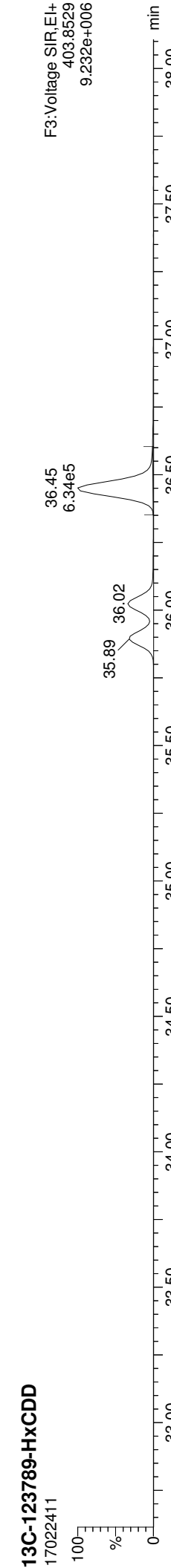
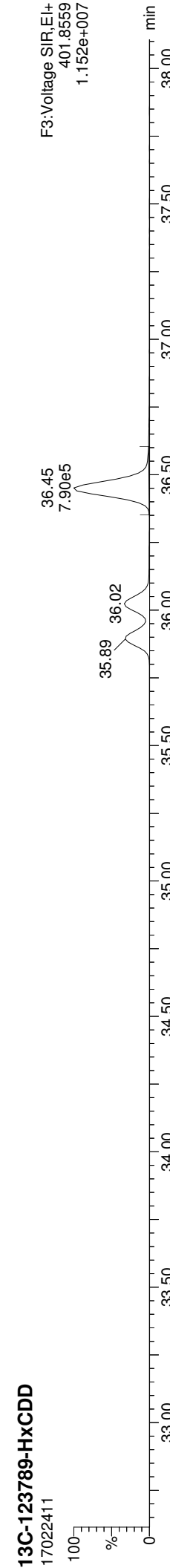
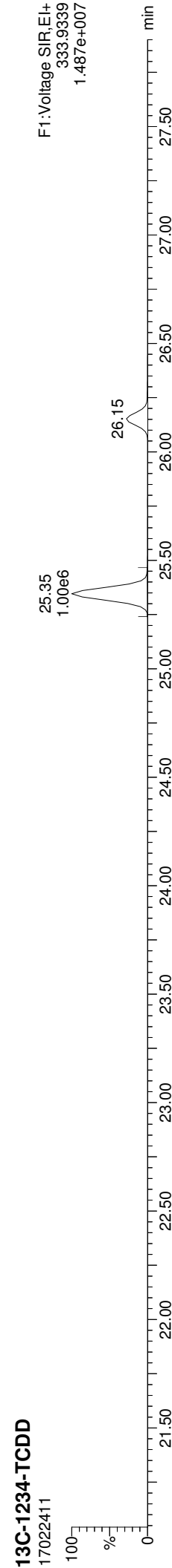
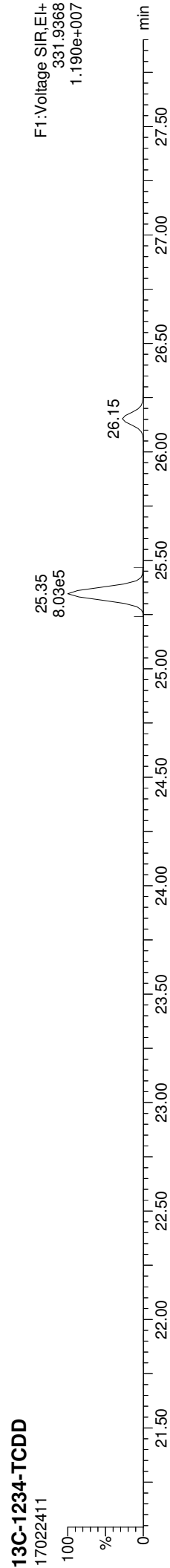
	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

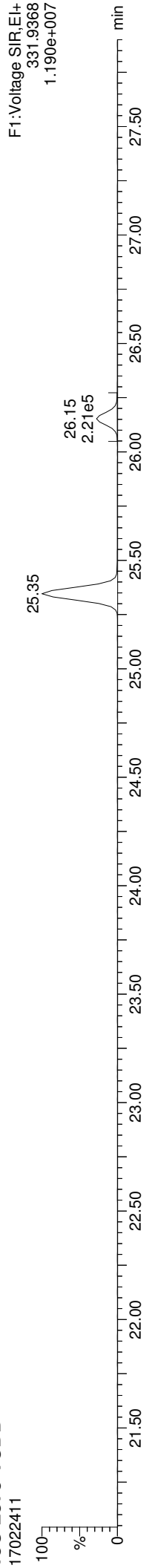


Quantify Sample Report

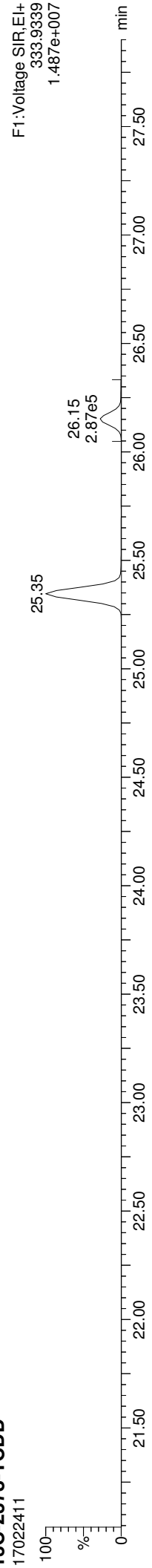
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

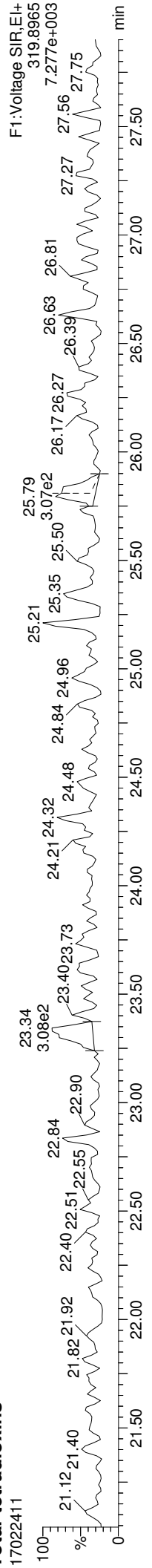
13C-2378-TCDD



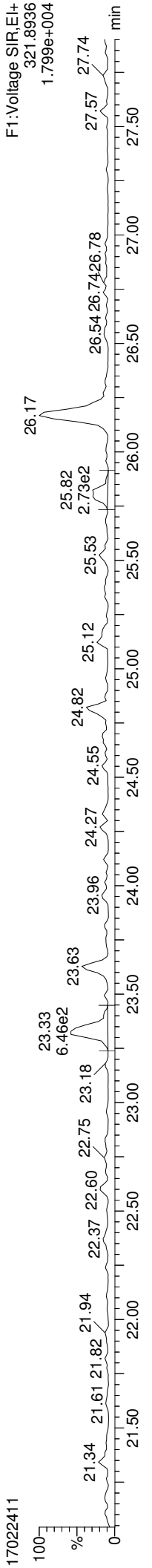
13C-2378-TCDD



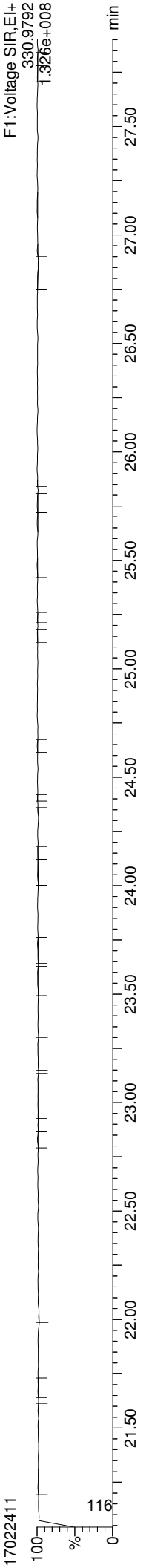
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

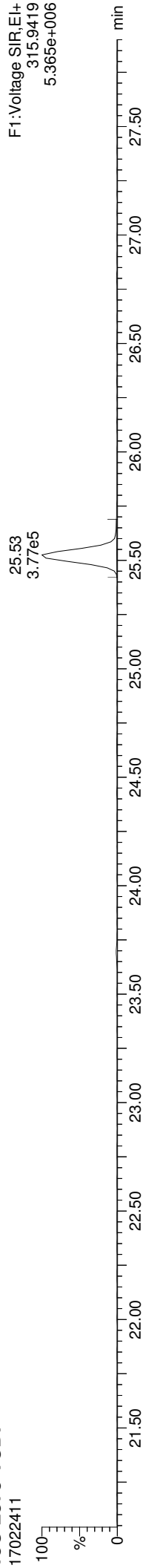


Quantify Sample Report

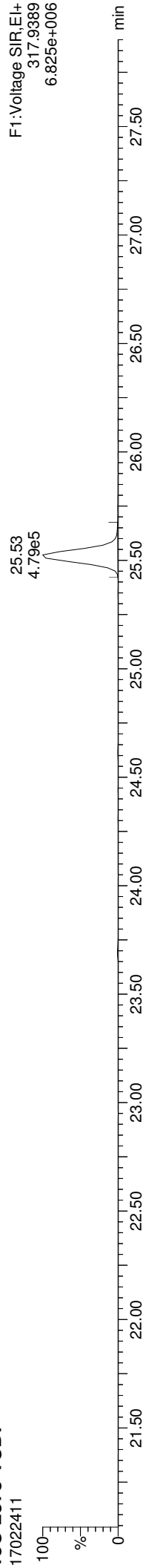
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.d\ld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

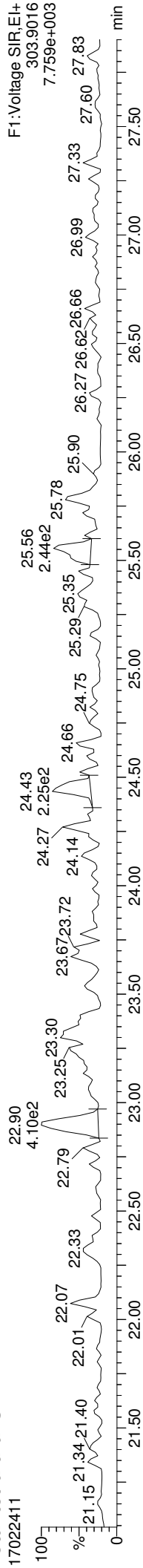
13C-2378-TCDF



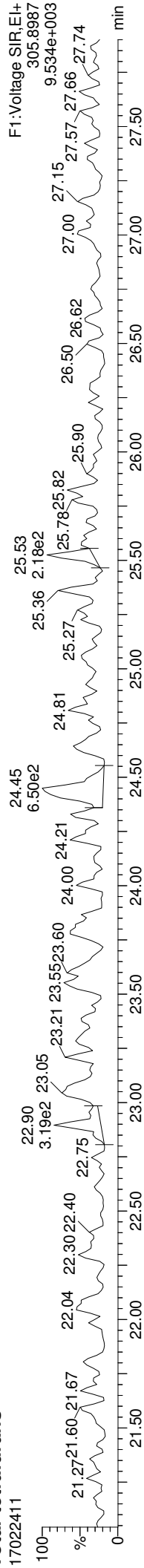
13C-2378-TCDF



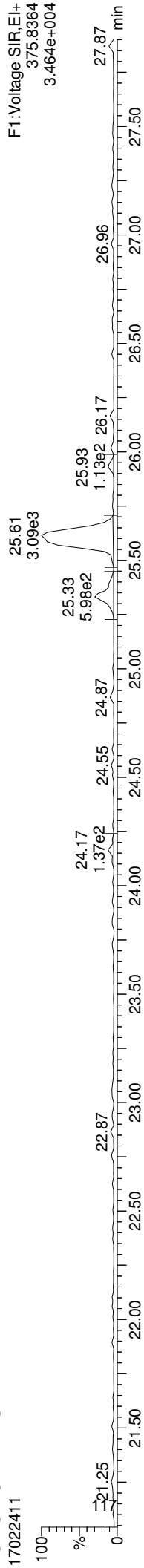
Total-tetrafurans



Total-tetrafurans



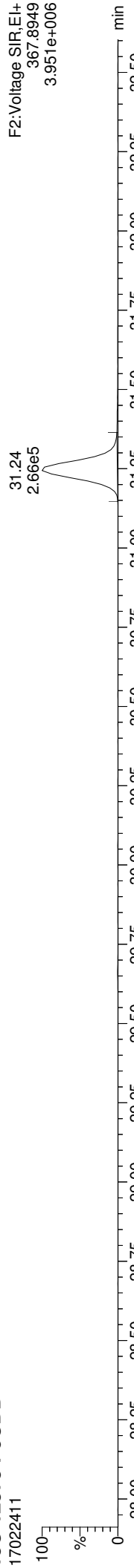
FUNCTION1 HXCDPE



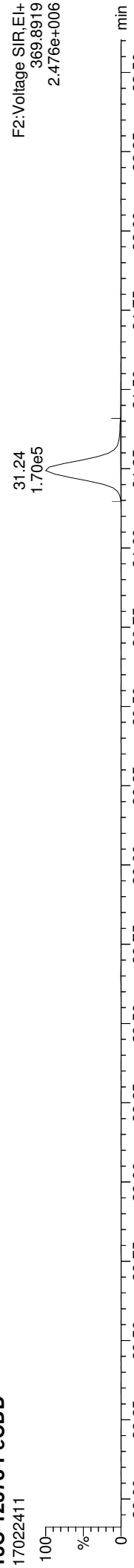
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

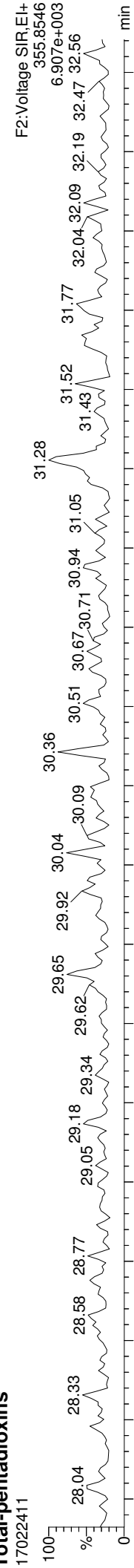
13C-12378-PeCDD



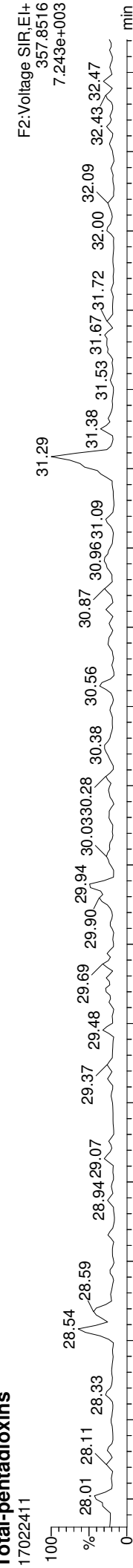
13C-12378-PeCDD



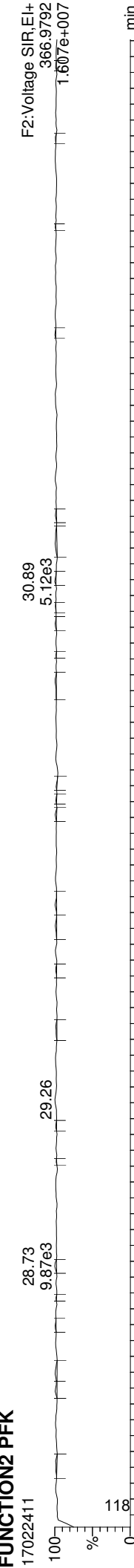
Total-pentadioxins



Total-pentadioxins

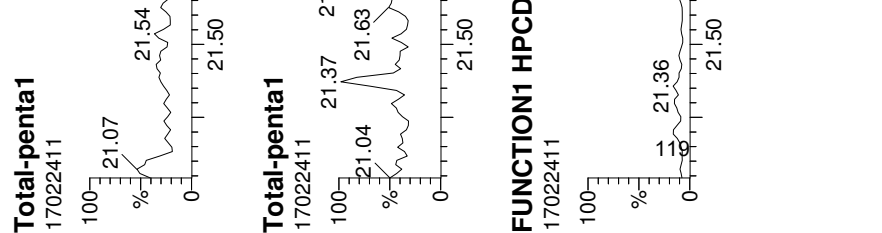
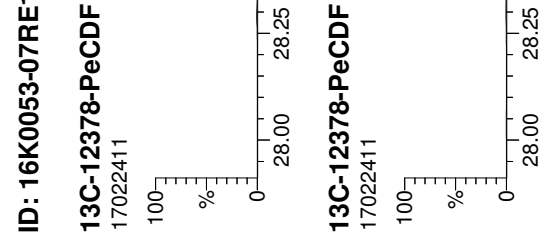
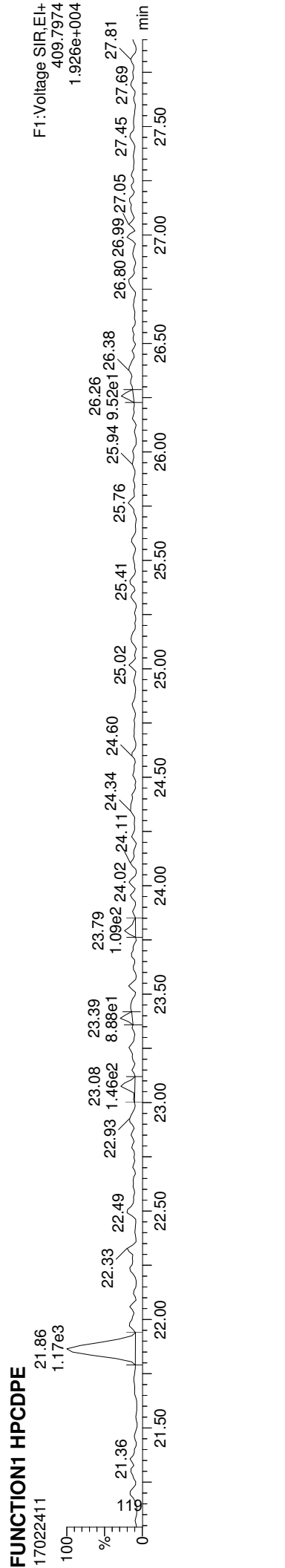
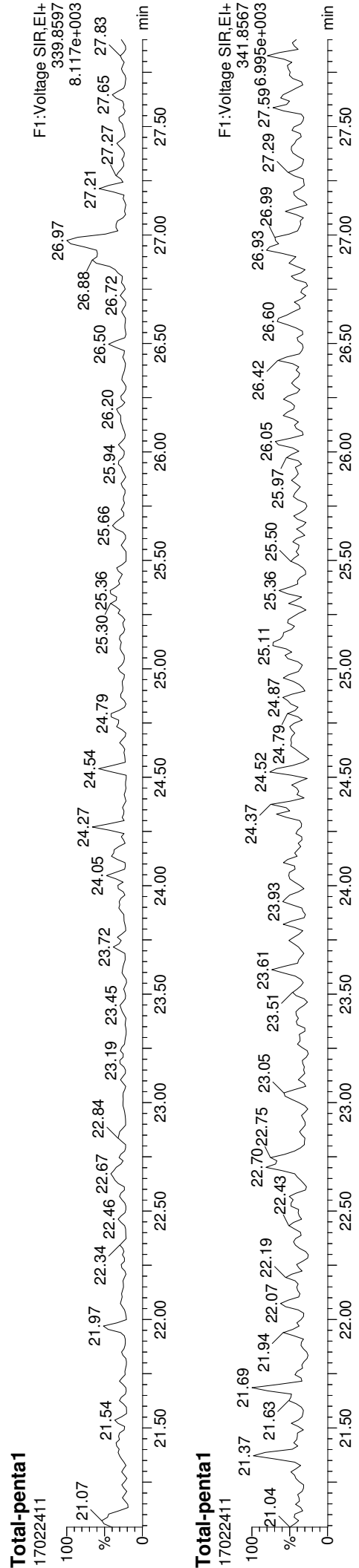
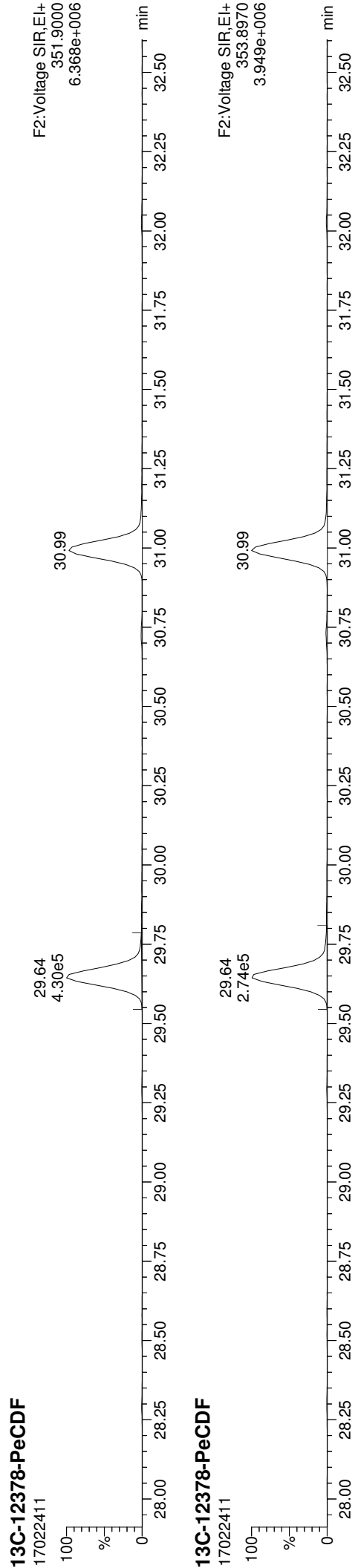


FUNCTION2 PFK



Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

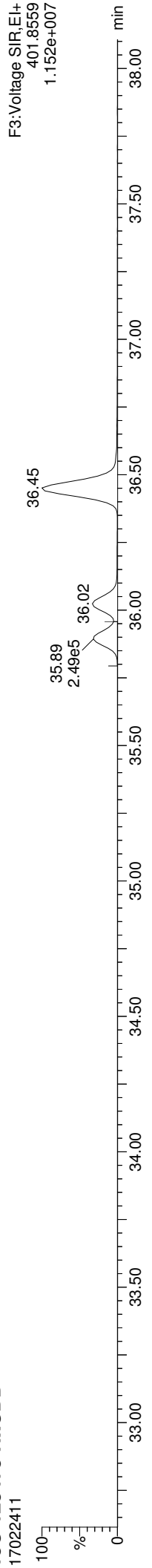
ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK



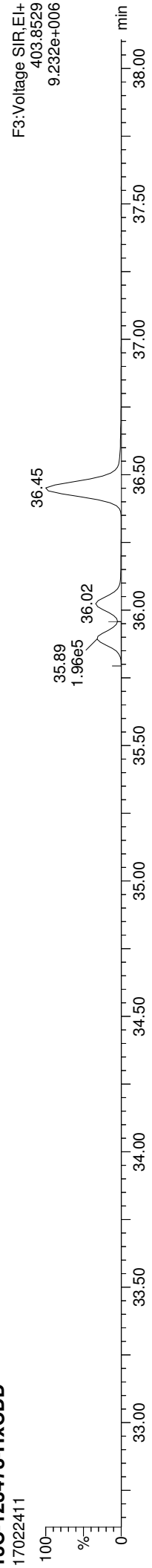
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

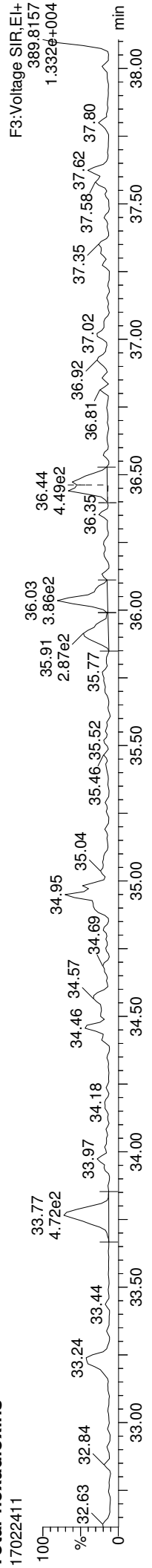
13C-123478-HxCDD



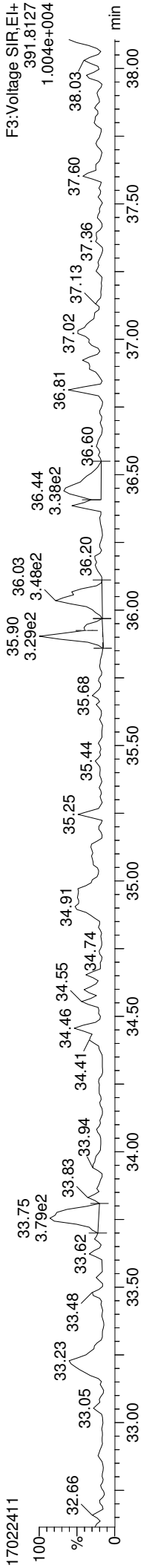
13C-123478-HxCDD



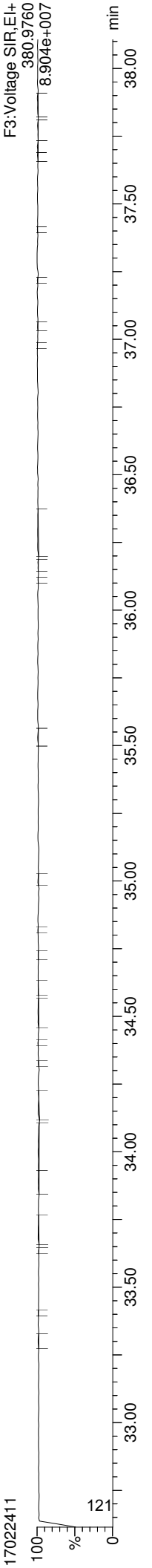
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

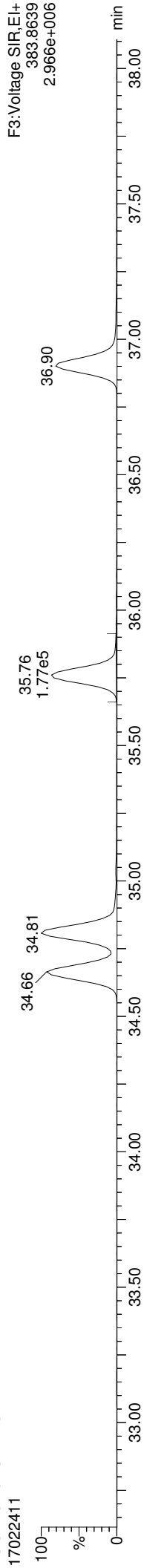


Quantify Sample Report

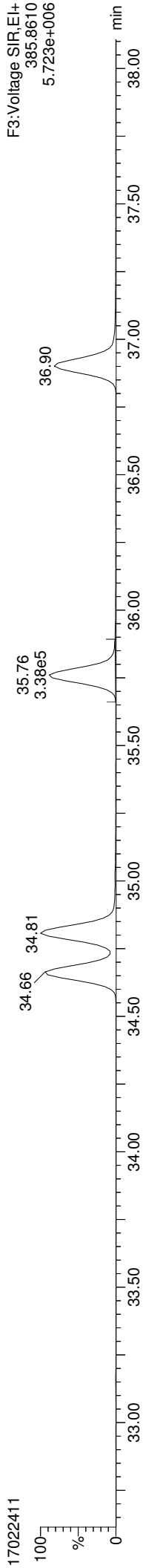
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

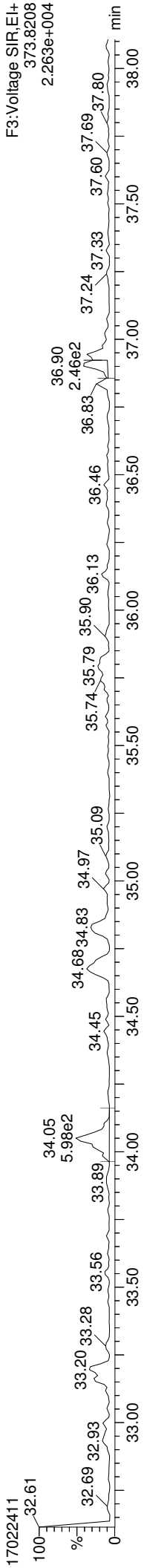
13C-234678-HxCDF



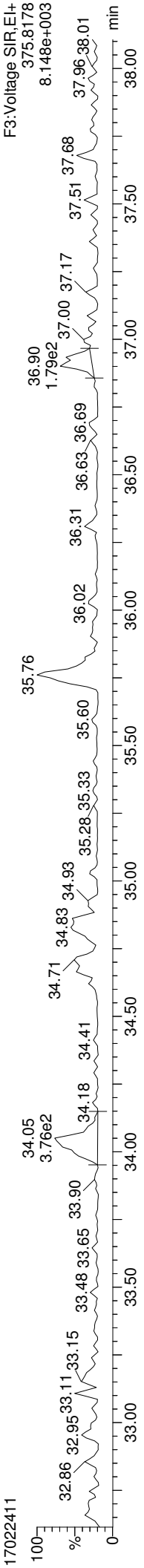
13C-234678-HxCDF



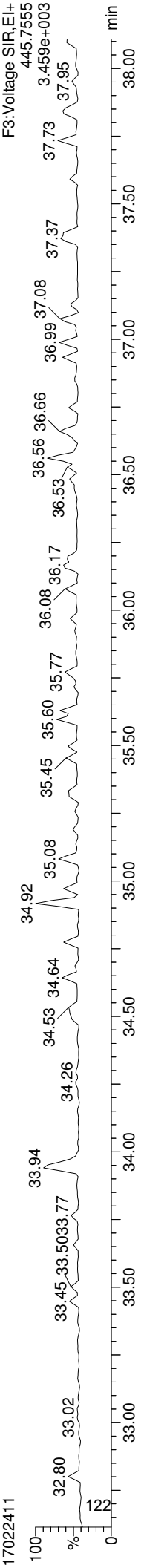
Total-hexafurans



Total-hexafurans



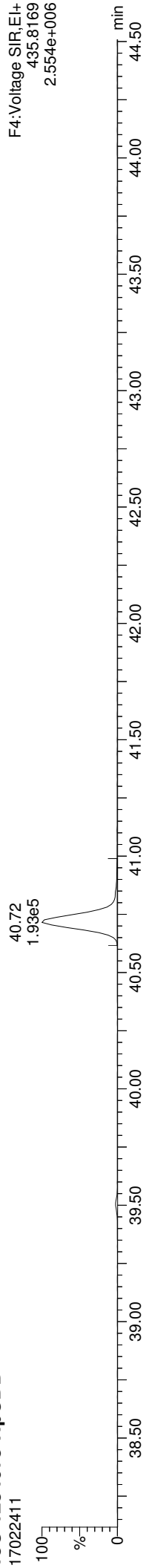
FUNCTION3 OCDPE



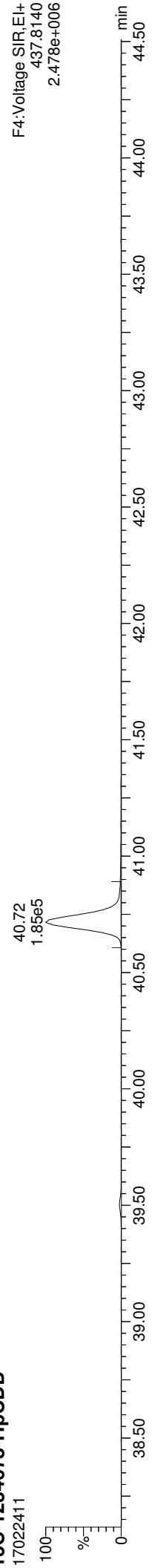
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

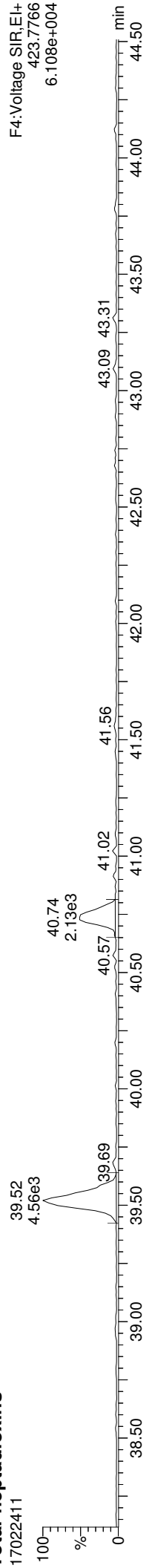
13C-1234678-HpCDD



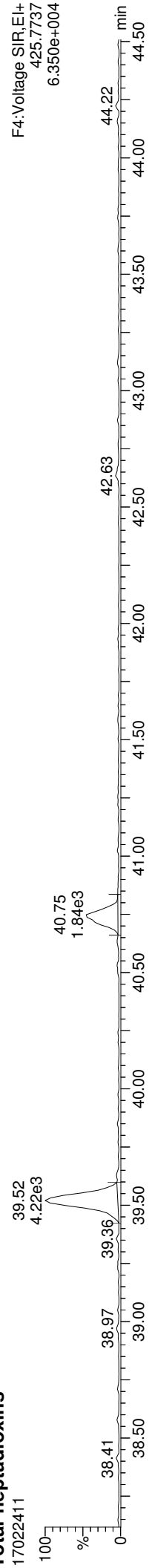
13C-1234678-HpCDD



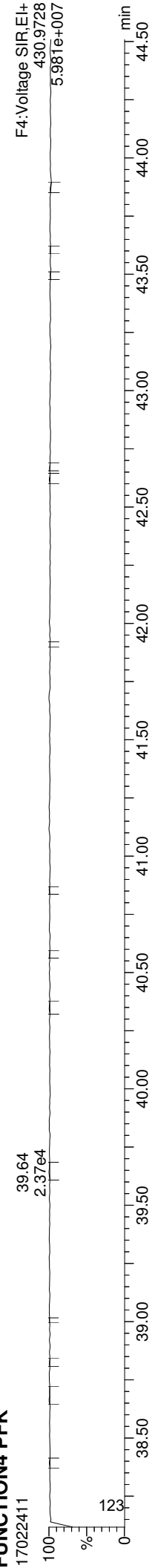
Total-heptadioxins



Total-heptadioxins



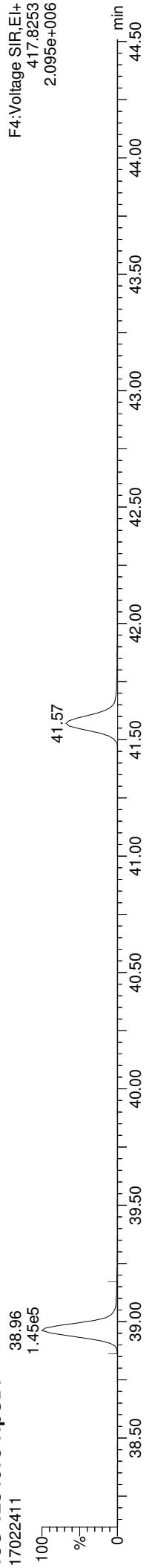
FUNCTION4 PFK



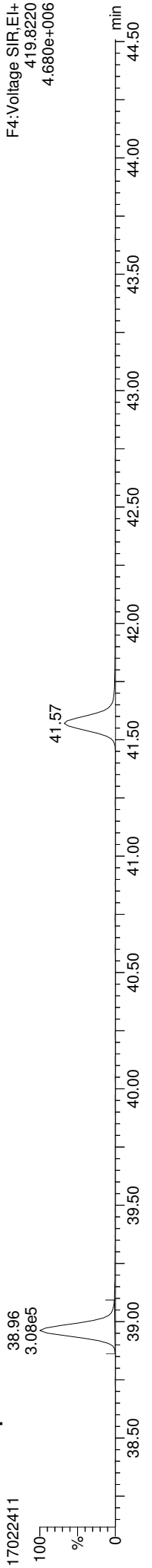
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

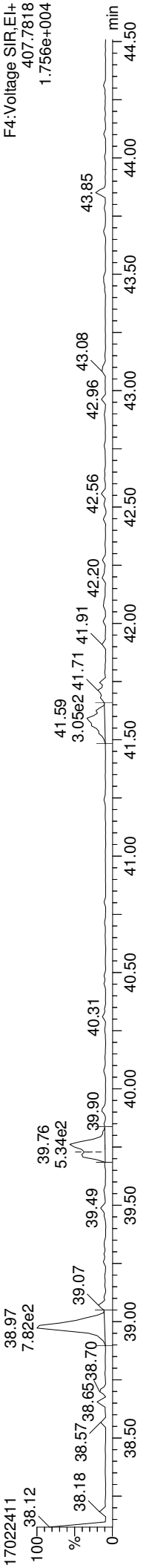
13C-1234678-HpCDF



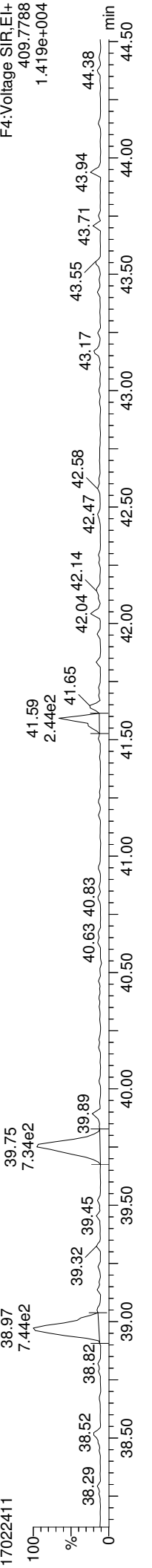
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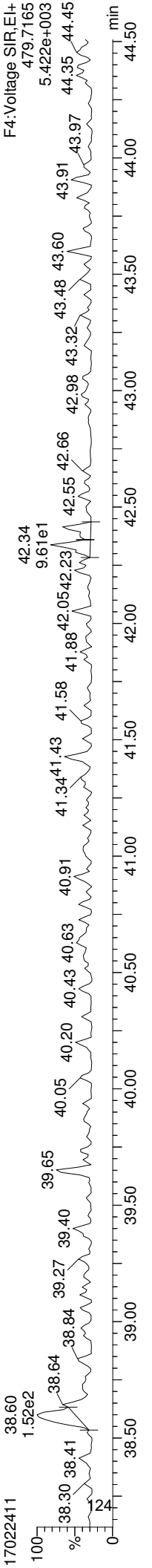
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

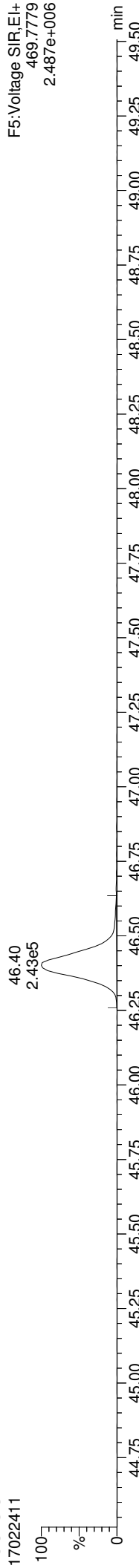


Quantify Sample Report

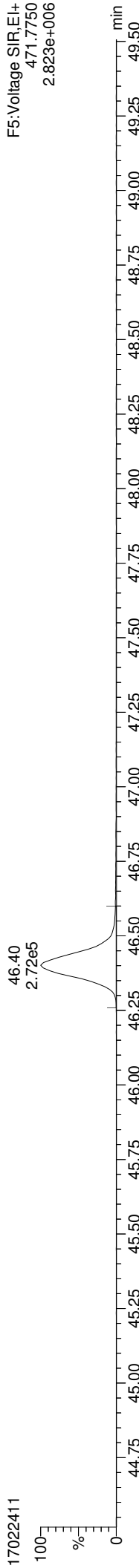
MassLynx MassLynx V4.1 SCN909
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:18 Pacific Standard Time

ID: 16K0053-07RE1, Name: 17022411, Date: 24-Feb-2017, Time: 22:05:14, Conditions: AUTOSPEC01, User: PK

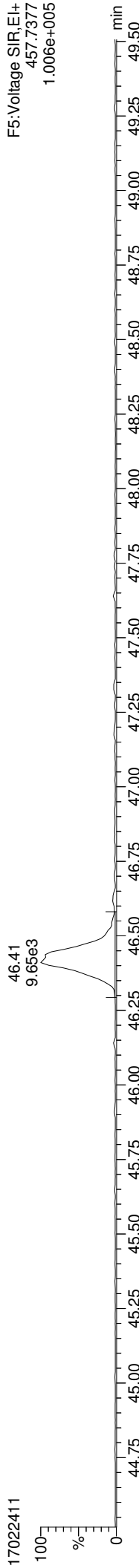
13C-OCDD



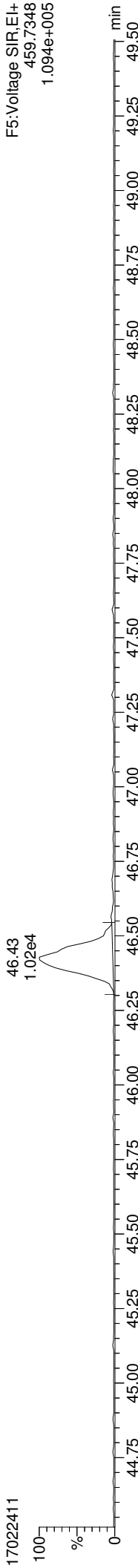
13C-OCDD



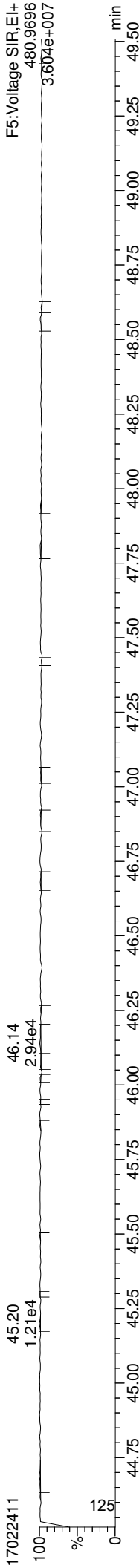
OCDD



OCDD



FUNCTION5 PFK





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-08RE1</u>
Sampled:	<u>01/05/17 12:20</u>	File ID:	<u>17022412</u>
Solids Wt%:		Prepared:	<u>02/22/17 12:00</u>
Result Basis:	<u>Dry</u>	Analyzed:	<u>02/24/17 22:58</u>
Batch:	<u>BFB0538</u>	Preparation:	<u>EPA 1613</u>
		Initial/Final:	<u>10.06 g / 20 uL</u>
		Sequence:	<u>SFB0342</u>
		Calibration:	<u>AA00071</u>
		Instrument:	<u>AUTOSPEC01</u>
		Column:	<u>RTX-Dioxin2</u>

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	1.080	0.655-0.886		0.994	0.156	ng/kg	EMPC, J
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.122	0.994	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.160	4.97	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.159	4.97	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.139	4.97	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.093	4.97	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.091	4.97	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.094	4.97	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.305	1.054-1.426		4.97	0.125	ng/kg	EMPC, J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.205	4.97	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.203	4.97	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.213	4.97	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.367	0.893-1.208		4.97	0.213	ng/kg	EMPC, J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.060	0.893-1.208		4.97	0.062	ng/kg	J, B
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.081	0.893-1.208		4.97	1.22	ng/kg	J, B
39001-02-0	OCDF	1	0.779	0.757-1.024		9.94	0.665	ng/kg	J, B
3268-87-9	OCDD	1	0.921	0.757-1.024		9.94	8.04	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.994	0.156	ng/kg
41903-57-5	Total TCDD	1	0.000			0.994	0.278	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.994	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.994	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.994	0.332	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.994	0.414	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.994	0.603	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.994	4.72	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.046
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.046



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-08RE1</u>
Sampled:	<u>01/05/17 12:20</u>	Prepared:	<u>02/22/17 12:00</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFB0342</u>
Batch:	<u>BFB0538</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17022412</u>
		Analyzed:	<u>02/24/17 22:58</u>
		Initial/Final:	<u>10.06 g / 20 uL</u>
		Calibration:	<u>AA00071</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.769	0.655-0.886		42.2	24 - 169 %	
13C12-2,3,7,8-TCDD		0.780	0.655-0.886		44.2	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.549	1.318-1.783		40.4	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.589	1.318-1.783		41.2	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.579	1.318-1.783		42.2	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.527	0.434-0.587		36.7	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.521	0.434-0.587		36.9	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.529	0.434-0.587		38.1	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.538	0.434-0.587		42.9	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.255	1.054-1.426		39.3	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.263	1.054-1.426		40.2	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.451	0.374-0.506		36.5	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.451	0.374-0.506		43.6	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.029	0.893-1.208		40.6	23 - 140 %	
13C12-OCDD		0.907	0.757-1.024		37.6	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			98.8	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF	25.540	1.001	3.99e2	3.69e2	0.924	1.080	0.770	1291	1346	5.80e3	5.65e3	4.5	YES	0.078
12378-PeCDF				0.954			1.550	1174	2017					
23478-PeCDF				0.966			1.550	1174	2017					
123478-HxCDF				1.141			1.240	881	821					
234678-HxCDF				1.181			1.240	881	821					
123678-HxCDF				1.089			1.240	881	821					
123789-HxCDF	36.900	1.000	9.53e1	3.12e2	1.110	0.305	1.240	881	821	4.16e3	4.93e3	4.7	YES	0.063
1234678-HpCDF	38.982	1.001	4.07e2	2.98e2	1.267	1.367	1.050	505	639	7.64e3	4.44e3	15.1	YES	0.107
1234789-HpCDF	41.602	1.001	8.45e1	7.97e1	1.295	1.060	1.050	505	639	1.65e3	2.09e3	3.3	NO	0.031
OCDF	46.714	1.007	4.72e2	6.06e2	1.067	0.779	0.890	656	869	7.53e3	7.08e3	11.5	NO	0.334
2378-TCDD				1.150			0.770	1380	810					
12378-PeCDD				1.017			1.550	1186	657					
123478-HxCDD				1.017			1.240	1511	1220					
123678-HxCDD				0.964			1.240	1511	1220					
123789-HxCDD				0.948			1.240	1511	1220					
1234678-HpCDD	40.747	1.000	1.46e3	1.35e3	1.051	1.081	1.050	826	985	2.08e4	1.79e4	25.2	NO	0.615
OCDD	46.427	1.001	6.04e3	6.55e3	1.030	0.921	0.890	648	559	6.34e4	6.75e4	98.0	NO	4.045
13C-2378-TCDF	25.525	1.007	4.60e5	5.98e5	1.515	0.769	0.770	8209	4514	6.56e6	8.40e6	799.2	NO	42.183
13C-12378-PeCDF	29.644	1.170	5.19e5	3.35e5	1.276	1.549	1.550	4708	4003	7.56e6	4.85e6	1606.7	NO	40.406
13C-23478-PeCDF	30.992	1.223	5.26e5	3.31e5	1.257	1.589	1.550	4708	4003	7.62e6	4.85e6	1618.6	NO	41.152
13C-123478-HxCDF	34.664	0.951	2.22e5	4.22e5	1.431	0.527	0.510	3827	3689	3.32e6	6.27e6	867.2	NO	36.734
13C-123678-HxCDF	34.806	0.955	2.41e5	4.62e5	1.552	0.521	0.510	3827	3689	3.50e6	6.42e6	915.3	NO	36.932
13C-234678-HxCDF	35.760	0.981	2.18e5	4.12e5	1.349	0.529	0.510	3827	3689	3.17e6	5.88e6	828.4	NO	38.110
13C-123789-HxCDF	36.900	1.012	2.05e5	3.80e5	1.111	0.538	0.510	3827	3689	2.82e6	5.28e6	737.9	NO	42.932
13C-1234678-HpCDF	38.960	1.069	1.61e5	3.57e5	1.160	0.451	0.440	2017	1709	2.36e6	5.27e6	1170.7	NO	36.456
13C-1234789-HpCDF	41.569	1.140	1.26e5	2.79e5	0.758	0.451	0.440	2017	1709	1.67e6	3.69e6	828.5	NO	43.650
13C-1234-TCDD	25.346	0.000	7.33e5	9.24e5	1.000	0.793	0.770	3224	1957	1.09e7	1.37e7	3371.1	NO	100.000
13C-2378-TCDD	26.153	1.032	2.79e5	3.59e5	0.872	0.780	0.770	3224	1957	4.09e6	5.19e6	1268.7	NO	44.159
13C-12378-PeCDD	31.244	1.233	3.23e5	2.05e5	0.754	1.579	1.550	1877	1287	4.77e6	2.99e6	2538.5	NO	42.211
13C-123478-HxCDD	35.891	0.985	2.96e5	2.36e5	1.106	1.255	1.240	2351	3370	4.34e6	3.46e6	1846.5	NO	39.288
13C-123678-HxCDD	36.023	0.988	3.20e5	2.54e5	1.165	1.263	1.240	2351	3370	4.65e6	3.71e6	1979.2	NO	40.198
13C-1234678-HpCDD	40.725	1.117	2.20e5	2.14e5	0.872	1.029	1.050	2644	2438	2.97e6	2.82e6	1122.3	NO	40.593
13C-OCDD	46.400	1.273	2.88e5	3.17e5	0.655	0.907	0.890	1435	2269	2.93e6	3.30e6	2042.0	NO	75.232
13C-123789-HxCDD	36.451	0.000	6.85e5	5.42e5	1.000	1.264	1.240	2351	3370	9.69e6	7.72e6	4123.4	NO	100.000
Total-tetrafurans			3.99e2	0.924				1291		5.80e3				0.078

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170224D.d\id
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			0.00e0					847		0.00e0				
Total-pentafurans			0.00e0		0.960			1174		0.00e0				0.167
Total-hexafurans			3.68e2		1.130			881		1.12e4				0.303
Total-heptafurans			1.02e3		1.281			505		2.02e4				0.883
Total-Furans			2.26e3		1.100			1291		4.48e4				0.140
Total-tetradioxins			4.45e2		1.150			1380		6.67e3				
Total-pentadioxins			0.00e0		1.017			1186		0.00e0				0.208
Total-hexadioxins			4.58e2		0.977			1511		1.09e4				2.376
Total-heptadioxins			5.56e3		1.051			826		8.38e4				6.803
Total-Dioxins			1.26e4		1.025			1380		1.67e5				7.686
Total-TEQ			1.48e4					1380		2.12e5				39.512
37CL-2378-TCDD	26.168	1.032	7.03e5		1.073			1474		1.00e7		6803.0		
FUNCTION1 PFK			0.00e0					662974		0.00e0				
FUNCTION2 PFK			0.00e0					171561		0.00e0				
FUNCTION3 PFK			0.00e0					490613		0.00e0				
FUNCTION4 PFK			5.77e5					392535		1.77e7				
FUNCTION5 PFK			5.13e5					324851		1.97e7				
FUNCTION1 HXCD...			3.69e3					545		4.67e4				0.000
FUNCTION1 HPCD...			1.51e3					1011		1.89e4				0.000
FUNCTION2 HPCD...			4.44e2					1204		1.33e4				0.000
FUNCTION3 OCDPE			0.00e0					318		0.00e0				
FUNCTION4 NCDPE			2.60e2					616		6.15e3				0.000
FUNCTION5 DCDPE			0.00e0					352		0.00e0				

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	25.54	767.947	0.924	0.078	0.067	1.08	0.77	YES	4.5

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	38 Total-hexafurans	373.8208	34.04	451.012	1.130	0.062		0.24	1.24	YES	3.3
2	38 Total-hexafurans	373.8208	33.16	302.665	1.130	0.042		1.60	1.24	YES	4.7
3	7 123789-HxCDF	373.8208	36.90	407.677	1.110	0.063	0.027	0.30	1.24	YES	4.7

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	41.60	164.183	1.295	0.031	0.031	1.06	1.05	NO	3.3
2	39 Total-heptafurans	407.7818	39.76	974.651	1.281	0.165		1.17	1.05	NO	21.6
3	8 1234678-HpCDF	407.7818	38.98	704.688	1.267	0.107	0.093	1.37	1.05	YES	15.1

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	25.54	767.947	0.924	0.078	0.067	1.08	0.77	YES	4.5
2	38 Total-hexafurans	373.8208	34.04	451.012	1.130	0.062		0.24	1.24	YES	3.3
3	38 Total-hexafurans	373.8208	33.16	302.665	1.130	0.042		1.60	1.24	YES	4.7
4	7 123789-HxCDF	373.8208	36.90	407.677	1.110	0.063	0.027	0.30	1.24	YES	4.7
5	10 OCDF	441.7428	46.71	1078.790	1.067	0.334	0.334	0.78	0.89	NO	11.5
6	9 1234789-HpCDF	407.7818	41.60	164.183	1.295	0.031	0.031	1.06	1.05	NO	3.3
7	39 Total-heptafurans	407.7818	39.76	974.651	1.281	0.165		1.17	1.05	NO	21.6
8	8 1234678-HpCDF	407.7818	38.98	704.688	1.267	0.107	0.093	1.37	1.05	YES	15.1

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	23.34	1025.542	1.150	0.140		0.77	0.77	NO	4.8

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	33.80	609.087	0.977	0.113		0.39	1.24	YES	2.7
2	43 Total-hexadioxins	389.8157	33.75	516.931	0.977	0.096		1.25	1.24	NO	4.5

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	40.75	2805.630	1.051	0.615	0.615	1.08	1.05	NO	25.2
2	44 Total-heptadioxins	423.7766	39.52	8034.509	1.051	1.761		1.04	1.05	NO	76.2

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	23.34	1025.542	1.150	0.140		0.77	0.77	NO	4.8
2	45 Total-Dioxins	319.8965	21.75	223.267	1.025	0.034		0.62	0.77	YES	1.8
3	43 Total-hexadioxins	389.8157	33.80	609.087	0.977	0.113		0.39	1.24	YES	2.7
4	43 Total-hexadioxins	389.8157	33.75	516.931	0.977	0.096		1.25	1.24	NO	4.5
5	16 1234678-HpCDD	423.7766	40.75	2805.630	1.051	0.615	0.615	1.08	1.05	NO	25.2
6	44 Total-heptadioxins	423.7766	39.52	8034.509	1.051	1.761		1.04	1.05	NO	76.2
7	17 OCDD	457.7377	46.43	12592.173	1.030	4.045	4.045	0.92	0.89	NO	98.0

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	25.54	767.947	0.924	0.078	0.067	1.08	0.77	YES	4.5
2	38 Total-hexafurans	373.8208	34.04	451.012	1.130	0.062		0.24	1.24	YES	3.3
3	38 Total-hexafurans	373.8208	33.16	302.665	1.130	0.042		1.60	1.24	YES	4.7
4	7 123789-HxCDF	373.8208	36.90	407.677	1.110	0.063	0.027	0.30	1.24	YES	4.7
5	10 OCDF	441.7428	46.71	1078.790	1.067	0.334	0.334	0.78	0.89	NO	11.5
6	9 1234789-HpCDF	407.7818	41.60	164.183	1.295	0.031	0.031	1.06	1.05	NO	3.3
7	39 Total-heptafurans	407.7818	39.76	974.651	1.281	0.165		1.17	1.05	NO	21.6
8	8 1234678-HpCDF	407.7818	38.98	704.688	1.267	0.107	0.093	1.37	1.05	YES	15.1
9	41 Total-tetradioxins	319.8965	23.34	1025.542	1.150	0.140		0.77	0.77	NO	4.8
10	45 Total-Dioxins	319.8965	21.75	223.267	1.025	0.034		0.62	0.77	YES	1.8
11	43 Total-hexadioxins	389.8157	33.80	609.087	0.977	0.113		0.39	1.24	YES	2.7
12	43 Total-hexadioxins	389.8157	33.75	516.931	0.977	0.096		1.25	1.24	NO	4.5
13	16 1234678-HpCDD	423.7766	40.75	2805.630	1.051	0.615	0.615	1.08	1.05	NO	25.2
14	44 Total-heptadioxins	423.7766	39.52	8034.509	1.051	1.761		1.04	1.05	NO	76.2
15	17 OCDD	457.7377	46.43	12592.173	1.030	4.045	4.045	0.92	0.89	NO	98.0

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

PFK3

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PFK4

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	39.64	0.000							0.6
2	51 FUNCTION4 PFK	430.9728	39.59	0.000							1.5
3	51 FUNCTION4 PFK	430.9728	39.54	0.000							2.3
4	51 FUNCTION4 PFK	430.9728	39.43	0.000							1.6
5	51 FUNCTION4 PFK	430.9728	39.40	0.000							1.4
6	51 FUNCTION4 PFK	430.9728	39.37	0.000							1.6
7	51 FUNCTION4 PFK	430.9728	38.69	0.000							1.0
8	51 FUNCTION4 PFK	430.9728	38.59	0.000							0.7
9	51 FUNCTION4 PFK	430.9728	38.42	0.000							0.6
10	51 FUNCTION4 PFK	430.9728	38.30	0.000							1.5
11	51 FUNCTION4 PFK	430.9728	38.23	0.000							0.5
12	51 FUNCTION4 PFK	430.9728	42.40	0.000							0.9
13	51 FUNCTION4 PFK	430.9728	42.36	0.000							1.1
14	51 FUNCTION4 PFK	430.9728	42.06	0.000							0.7
15	51 FUNCTION4 PFK	430.9728	41.55	0.000							0.8
16	51 FUNCTION4 PFK	430.9728	41.50	0.000							0.7
17	51 FUNCTION4 PFK	430.9728	41.33	0.000							0.6
18	51 FUNCTION4 PFK	430.9728	41.28	0.000							1.0
19	51 FUNCTION4 PFK	430.9728	40.99	0.000							0.9
20	51 FUNCTION4 PFK	430.9728	40.94	0.000							0.5
21	51 FUNCTION4 PFK	430.9728	40.69	0.000							1.6
22	51 FUNCTION4 PFK	430.9728	40.45	0.000							0.9
23	51 FUNCTION4 PFK	430.9728	40.30	0.000							0.7
24	51 FUNCTION4 PFK	430.9728	40.23	0.000							0.4
25	51 FUNCTION4 PFK	430.9728	40.11	0.000							1.2
26	51 FUNCTION4 PFK	430.9728	39.98	0.000							0.9
27	51 FUNCTION4 PFK	430.9728	39.69	0.000							0.8
28	51 FUNCTION4 PFK	430.9728	44.21	0.000							0.4
29	51 FUNCTION4 PFK	430.9728	44.13	0.000							0.6
30	51 FUNCTION4 PFK	430.9728	44.01	0.000							0.9
31	51 FUNCTION4 PFK	430.9728	43.67	0.000							0.9
32	51 FUNCTION4 PFK	430.9728	43.63	0.000							0.9
33	51 FUNCTION4 PFK	430.9728	43.53	0.000							1.8
34	51 FUNCTION4 PFK	430.9728	43.50	0.000							0.9
35	51 FUNCTION4 PFK	430.9728	43.40	0.000							1.9
36	51 FUNCTION4 PFK	430.9728	43.29	0.000							1.2
37	51 FUNCTION4 PFK	430.9728	43.26	0.000							1.5
38	51 FUNCTION4 PFK	430.9728	43.15	0.000							0.6
39	51 FUNCTION4 PFK	430.9728	43.02	0.000							1.1
40	51 FUNCTION4 PFK	430.9728	42.88	0.000							1.5
41	51 FUNCTION4 PFK	430.9728	42.84	0.000							1.2
42	51 FUNCTION4 PFK	430.9728	42.76	0.000							1.1
43	51 FUNCTION4 PFK	430.9728	42.62	0.000							1.7

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	46.11	0.000							1.9
2	52 FUNCTION5 PFK	480.9696	45.91	0.000							0.9
3	52 FUNCTION5 PFK	480.9696	45.74	0.000							0.4
4	52 FUNCTION5 PFK	480.9696	45.71	0.000							1.2
5	52 FUNCTION5 PFK	480.9696	45.67	0.000							1.6
6	52 FUNCTION5 PFK	480.9696	45.57	0.000							1.4
7	52 FUNCTION5 PFK	480.9696	45.51	0.000							0.6
8	52 FUNCTION5 PFK	480.9696	45.47	0.000							0.3
9	52 FUNCTION5 PFK	480.9696	45.39	0.000							0.7
10	52 FUNCTION5 PFK	480.9696	45.35	0.000							2.2
11	52 FUNCTION5 PFK	480.9696	45.31	0.000							1.7
12	52 FUNCTION5 PFK	480.9696	45.27	0.000							1.6
13	52 FUNCTION5 PFK	480.9696	45.22	0.000							1.1
14	52 FUNCTION5 PFK	480.9696	45.15	0.000							1.0
15	52 FUNCTION5 PFK	480.9696	45.08	0.000							1.5
16	52 FUNCTION5 PFK	480.9696	47.45	0.000							1.1
17	52 FUNCTION5 PFK	480.9696	47.32	0.000							0.8
18	52 FUNCTION5 PFK	480.9696	47.30	0.000							0.9
19	52 FUNCTION5 PFK	480.9696	47.25	0.000							0.8
20	52 FUNCTION5 PFK	480.9696	47.22	0.000							0.9
21	52 FUNCTION5 PFK	480.9696	47.06	0.000							0.5
22	52 FUNCTION5 PFK	480.9696	47.02	0.000							1.2
23	52 FUNCTION5 PFK	480.9696	46.98	0.000							1.3
24	52 FUNCTION5 PFK	480.9696	46.93	0.000							1.0
25	52 FUNCTION5 PFK	480.9696	46.79	0.000							1.0
26	52 FUNCTION5 PFK	480.9696	46.71	0.000							0.5
27	52 FUNCTION5 PFK	480.9696	46.54	0.000							0.9
28	52 FUNCTION5 PFK	480.9696	46.36	0.000							1.1
29	52 FUNCTION5 PFK	480.9696	46.30	0.000							1.7
30	52 FUNCTION5 PFK	480.9696	46.23	0.000							1.9
31	52 FUNCTION5 PFK	480.9696	46.19	0.000							1.8
32	52 FUNCTION5 PFK	480.9696	48.94	0.000							0.6
33	52 FUNCTION5 PFK	480.9696	48.91	0.000							0.4
34	52 FUNCTION5 PFK	480.9696	48.75	0.000							0.8
35	52 FUNCTION5 PFK	480.9696	48.71	0.000							1.4
36	52 FUNCTION5 PFK	480.9696	48.66	0.000							1.4
37	52 FUNCTION5 PFK	480.9696	48.63	0.000							2.1
38	52 FUNCTION5 PFK	480.9696	48.57	0.000							1.3
39	52 FUNCTION5 PFK	480.9696	48.38	0.000							0.4
40	52 FUNCTION5 PFK	480.9696	48.29	0.000							1.3
41	52 FUNCTION5 PFK	480.9696	48.18	0.000							1.3
42	52 FUNCTION5 PFK	480.9696	48.10	0.000							1.5
43	52 FUNCTION5 PFK	480.9696	48.04	0.000							1.9
44	52 FUNCTION5 PFK	480.9696	48.00	0.000							1.4
45	52 FUNCTION5 PFK	480.9696	47.93	0.000							0.8
46	52 FUNCTION5 PFK	480.9696	47.60	0.000							1.6
47	52 FUNCTION5 PFK	480.9696	47.56	0.000							0.8
48	52 FUNCTION5 PFK	480.9696	49.34	0.000							0.6
49	52 FUNCTION5 PFK	480.9696	49.31	0.000							0.7
50	52 FUNCTION5 PFK	480.9696	49.26	0.000							1.4
51	52 FUNCTION5 PFK	480.9696	49.22	0.000							0.8

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
52	52 FUNCTION5 PFK	480.9696	49.18	0.000							0.8
53	52 FUNCTION5 PFK	480.9696	49.10	0.000							0.8
54	52 FUNCTION5 PFK	480.9696	49.04	0.000							1.1

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	27.08	0.000		0.000					3.3
2	53 FUNCTION1 HXCD...	375.8364	25.60	0.000		0.000					68.8
3	53 FUNCTION1 HXCD...	375.8364	25.33	0.000		0.000					13.5

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	21.86	0.000		0.000					18.7

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	30.93	0.000		0.000					2.3
2	55 FUNCTION2 HPCD...	409.7974	30.22	0.000		0.000					2.1
3	55 FUNCTION2 HPCD...	409.7974	32.44	0.000		0.000					2.7
4	55 FUNCTION2 HPCD...	409.7974	31.65	0.000		0.000					2.0
5	55 FUNCTION2 HPCD...	409.7974	31.31	0.000		0.000					1.9

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	39.31	0.000		0.000					4.9
2	57 FUNCTION4 NCDPE	479.7165	38.59	0.000		0.000					5.1

ETHERS6

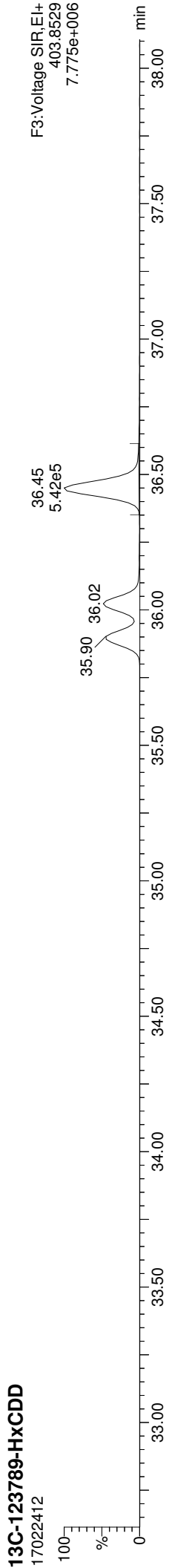
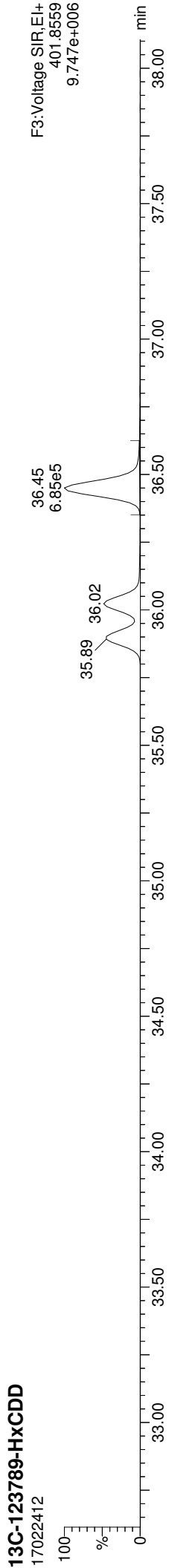
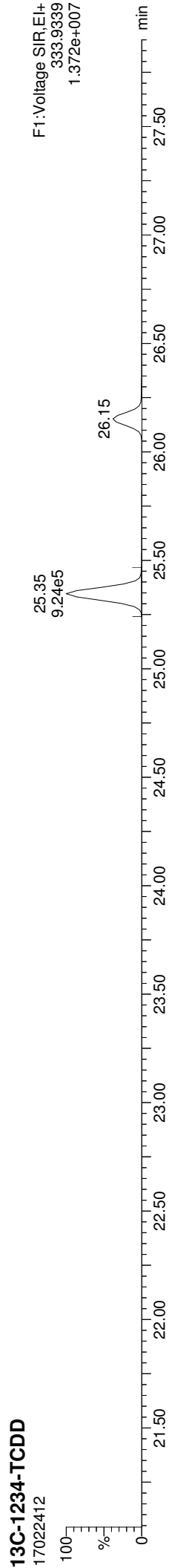
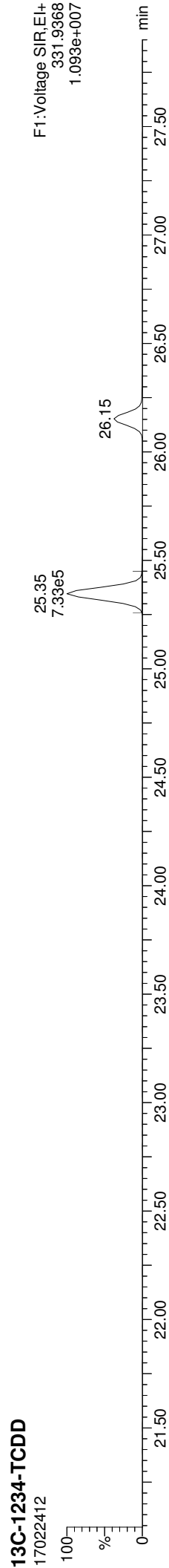
	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\17022412.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

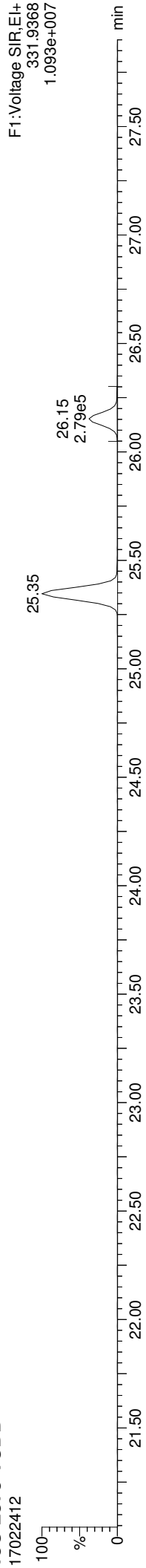


Quantify Sample Report

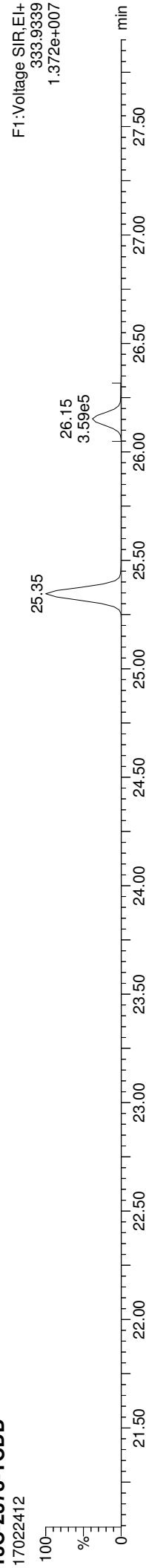
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

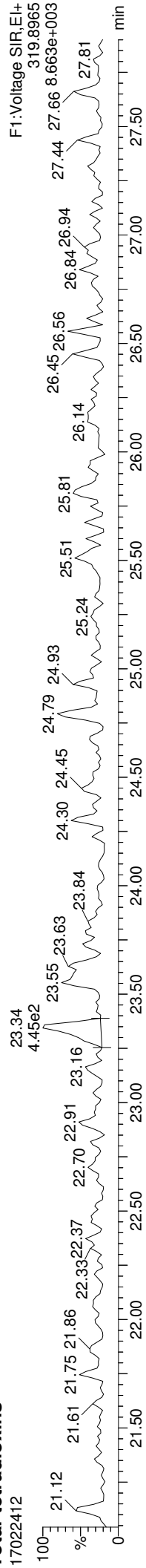
13C-2378-TCDD



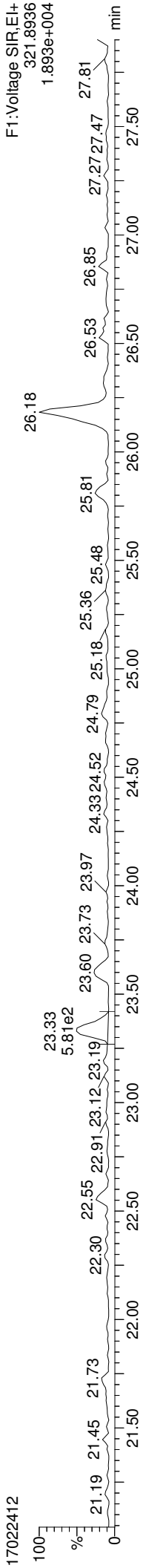
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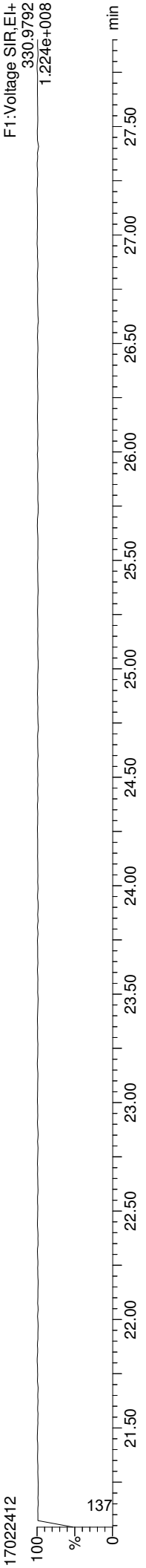
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

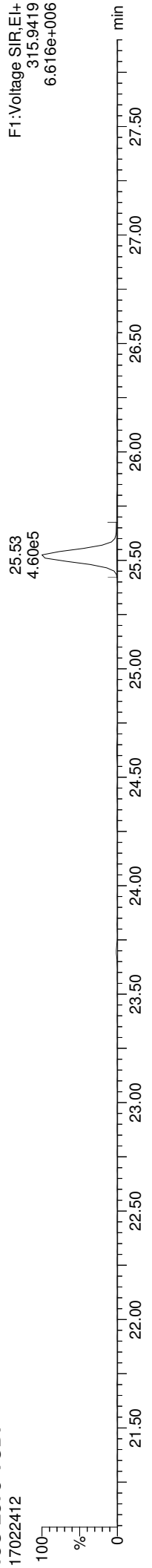


Quantify Sample Report

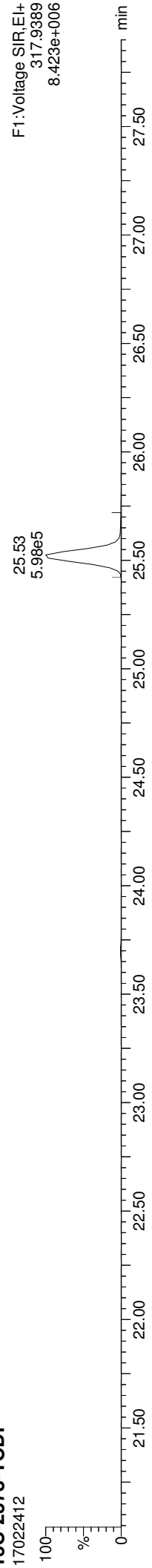
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

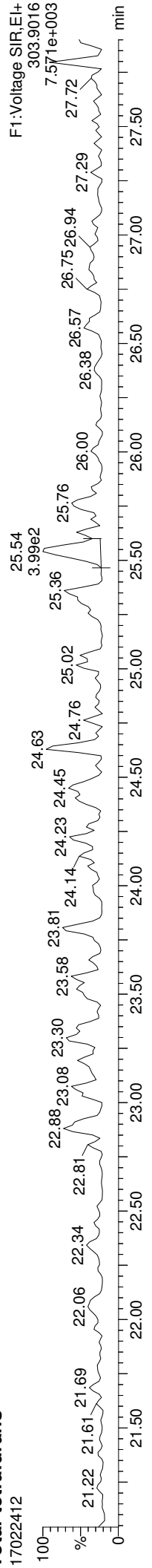
13C-2378-TCDF



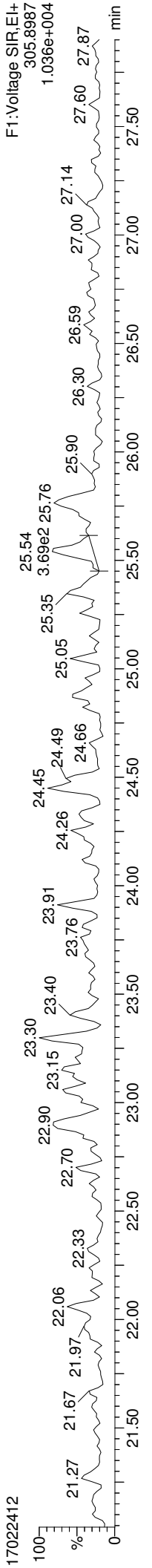
13C-2378-TCDF



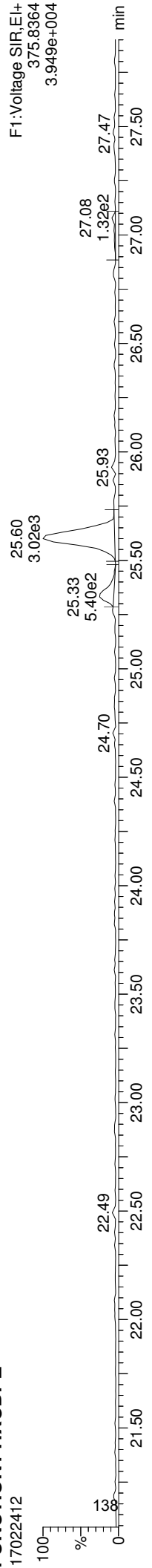
Total-tetrafurans



Total-tetrafurans



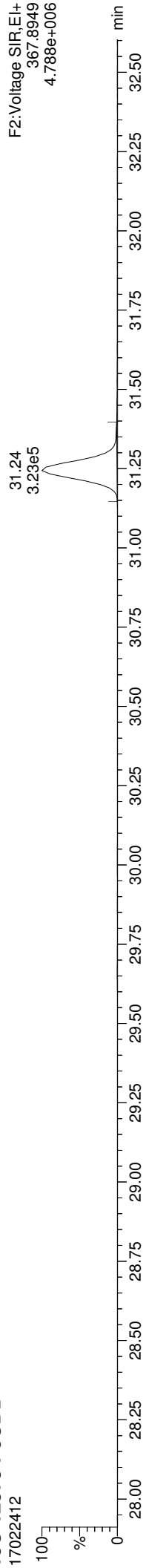
FUNCTION1 HXCDEP



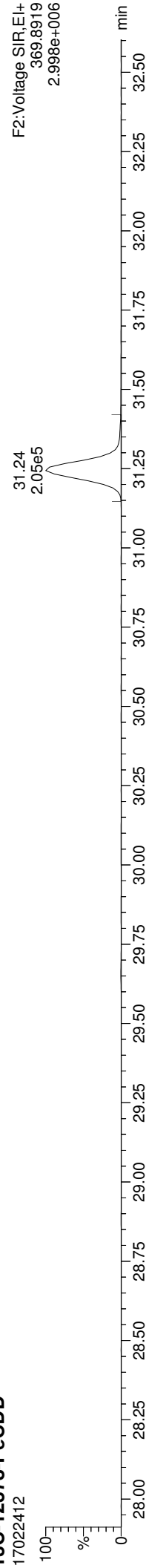
MassLynx MassLynx V4.1 SCN909
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

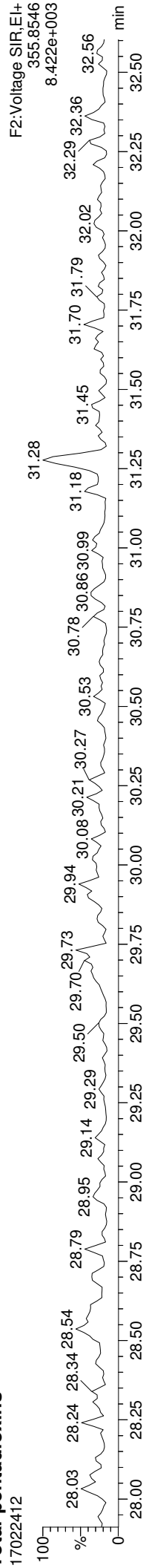
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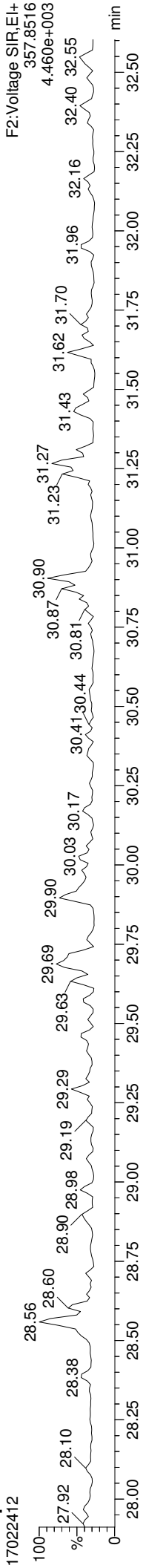
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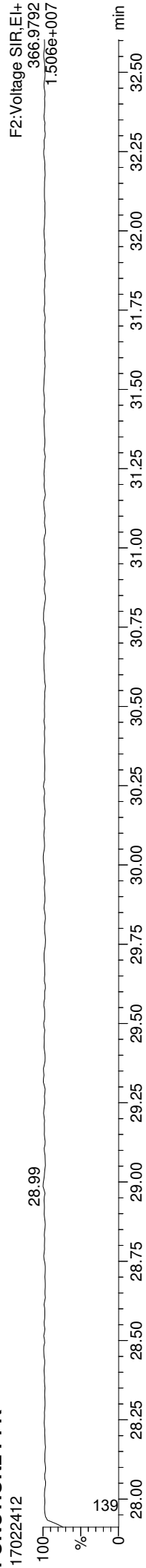
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

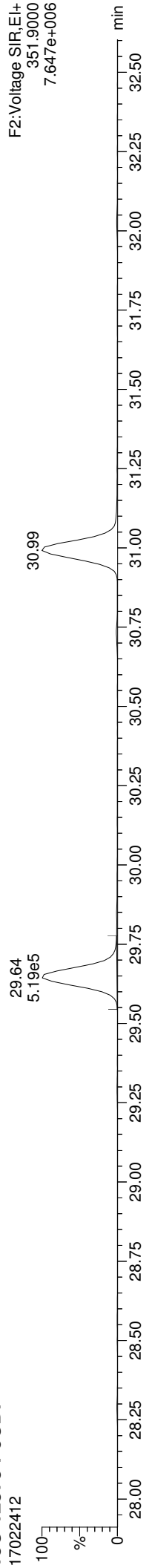


Quantify Sample Report
Dataset: C:\MassLynx\Dioxin.pro\17022412.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

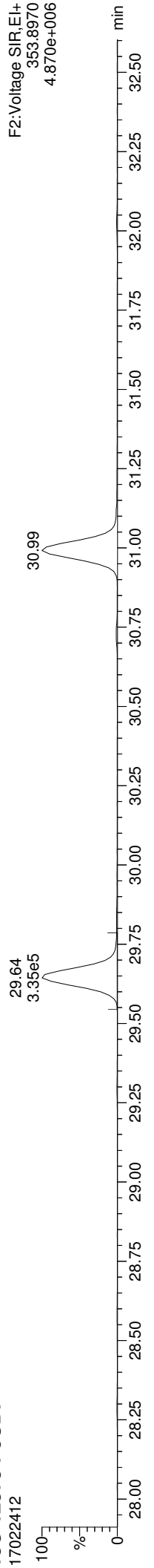
MassLynx MassLynx V4.1 SCN909

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

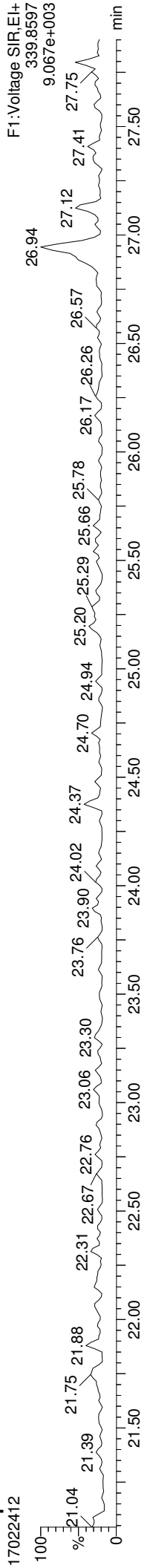
13C-12378-PeCDF



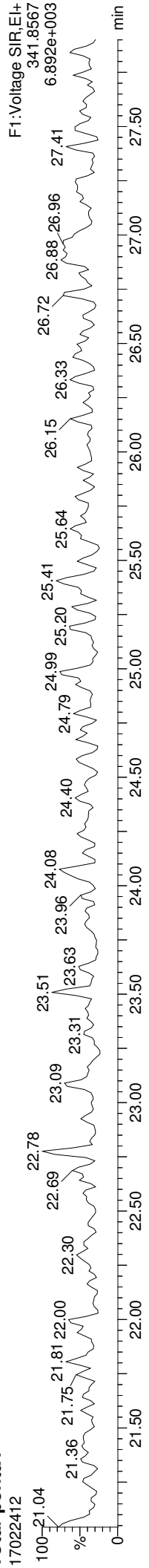
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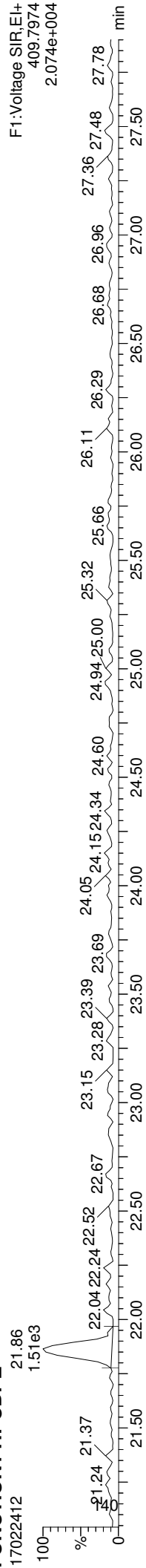
Total-penta1



Total-penta1

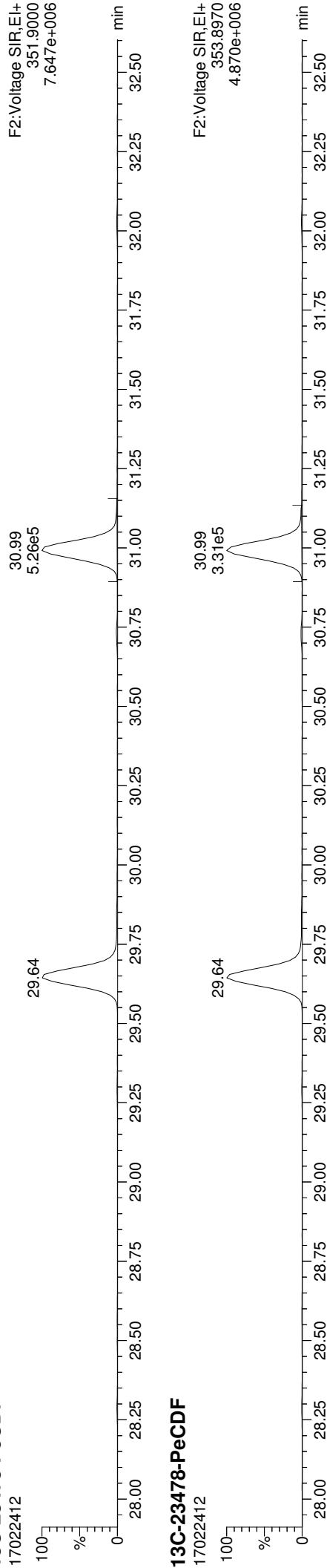


FUNCTION1 HPCDPE

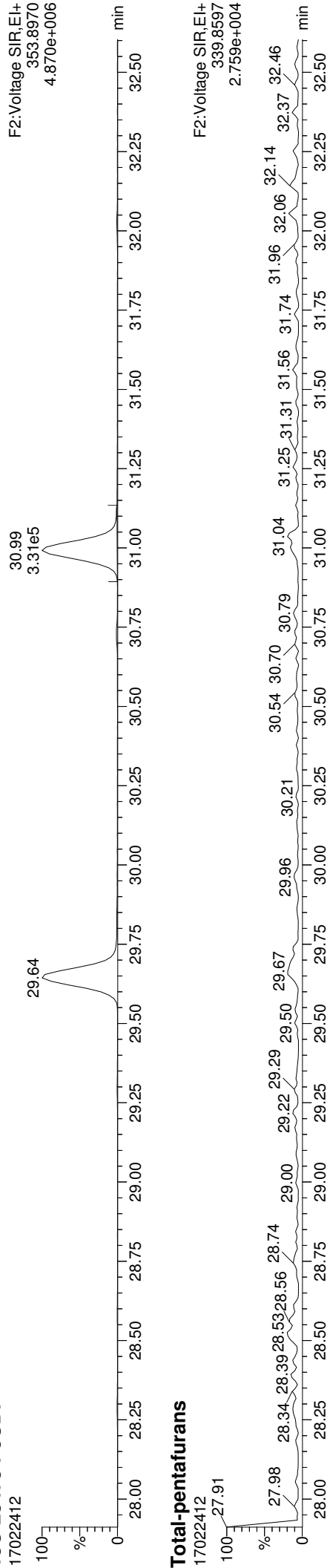


ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

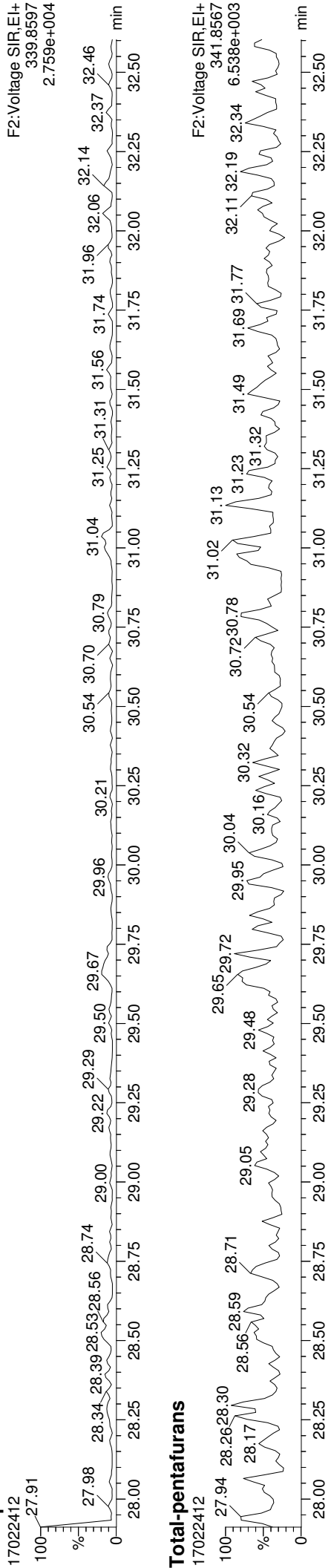
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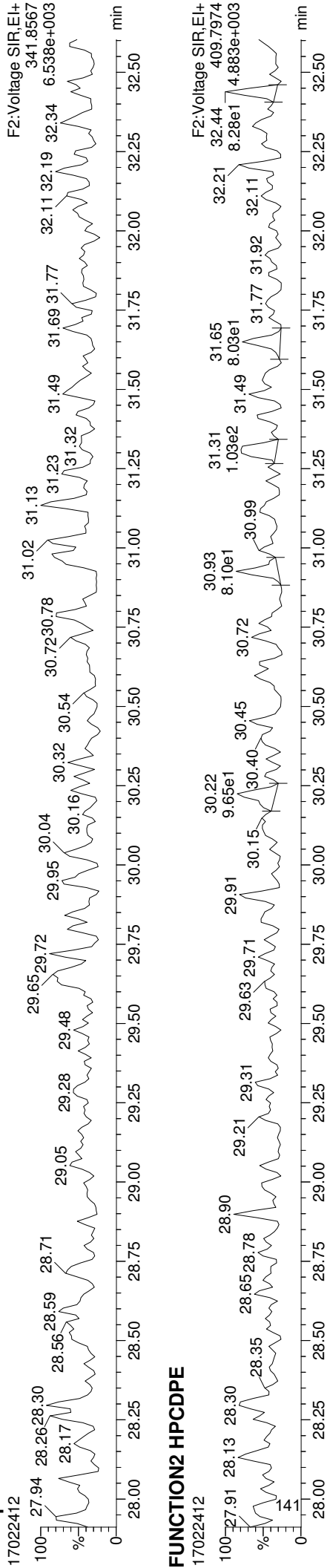
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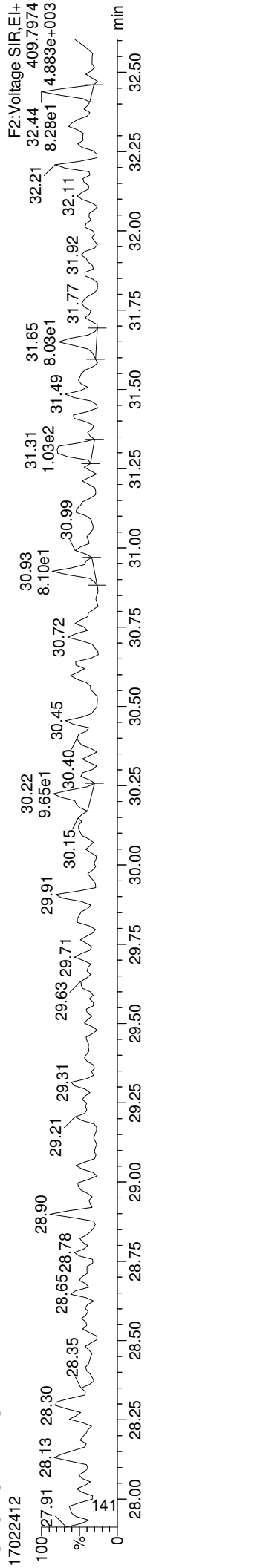
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

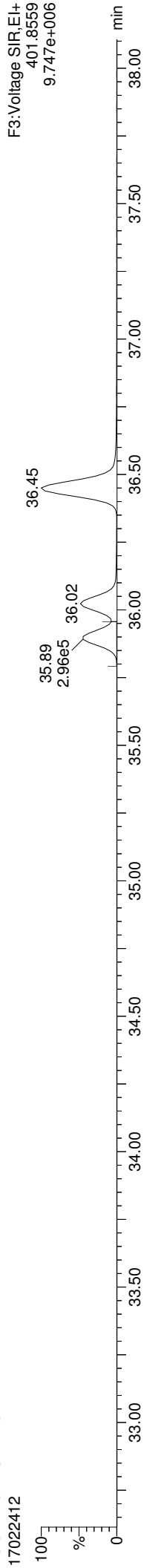


Quantify Sample Report

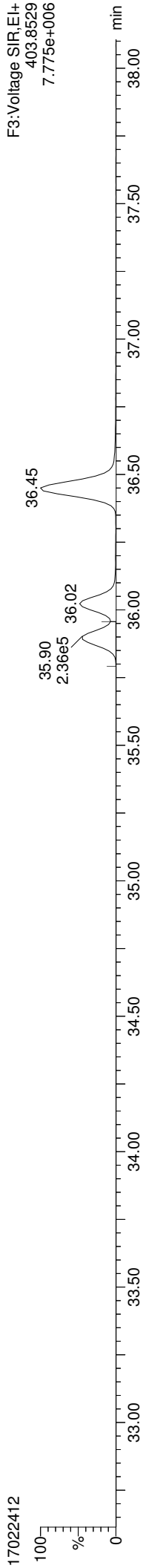
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

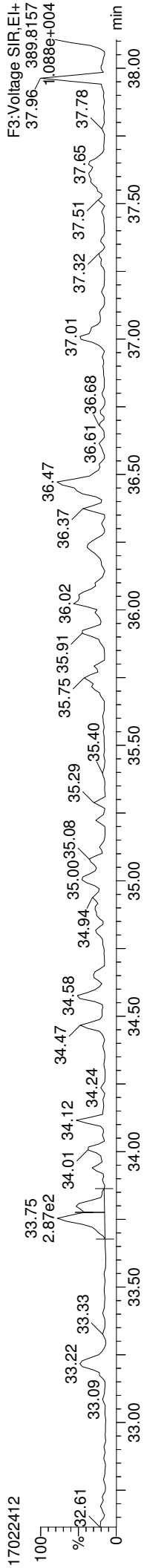
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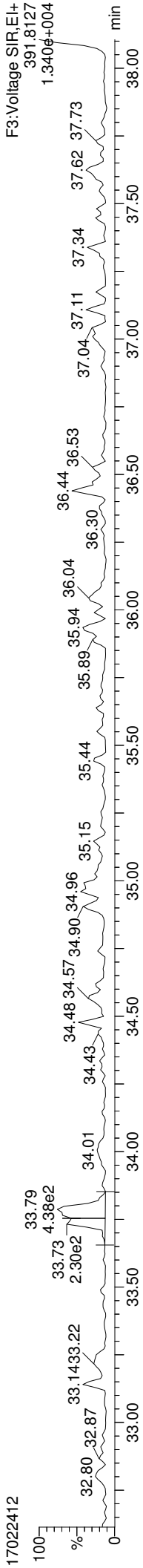
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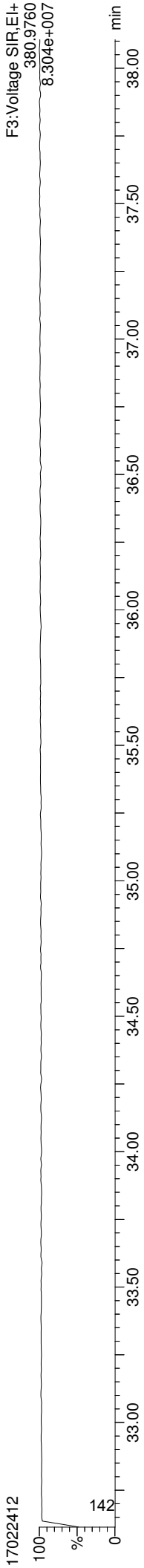
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

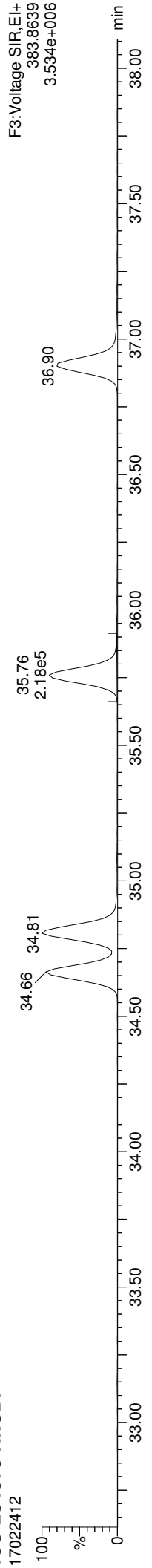


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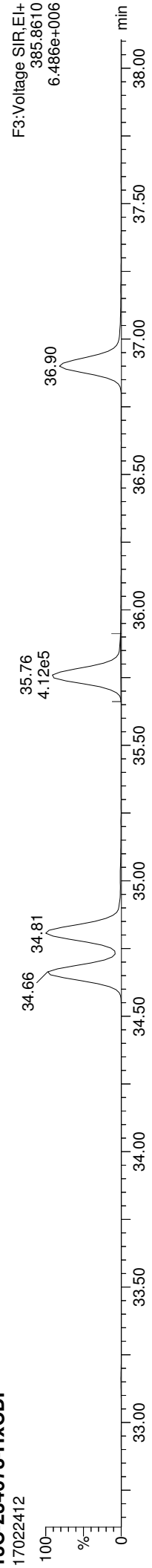
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17022412.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

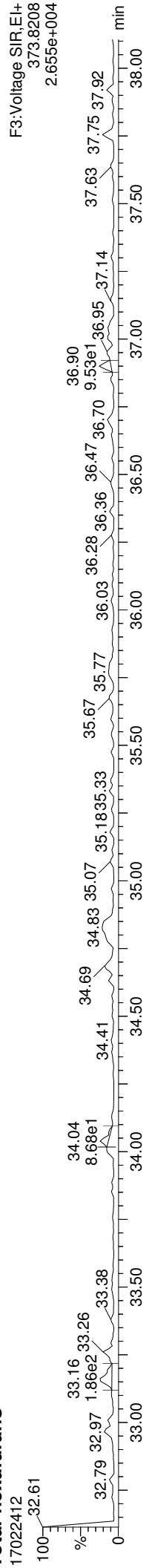
13C-234678-HxCDF



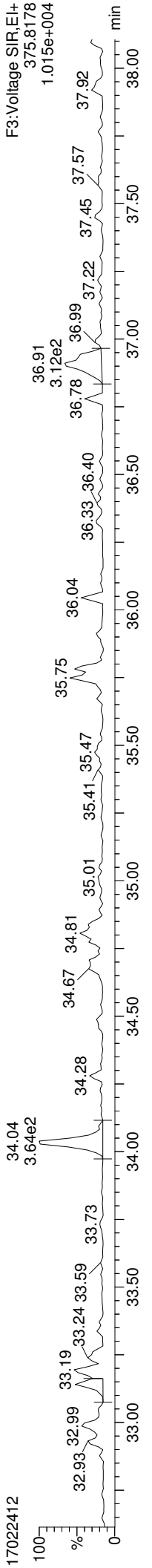
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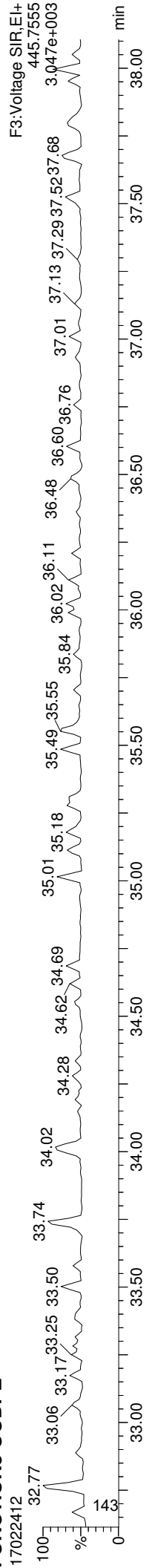
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

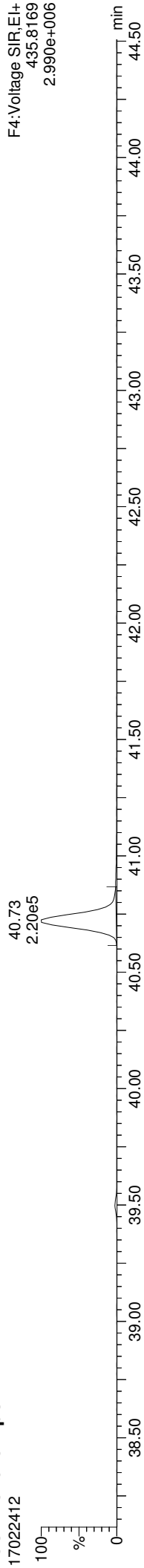


Quantify Sample Report

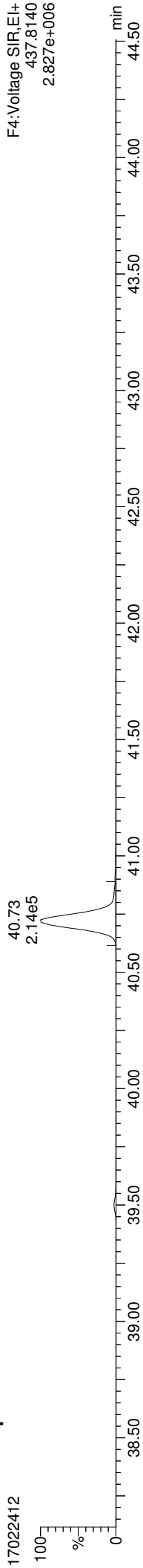
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.d\1
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

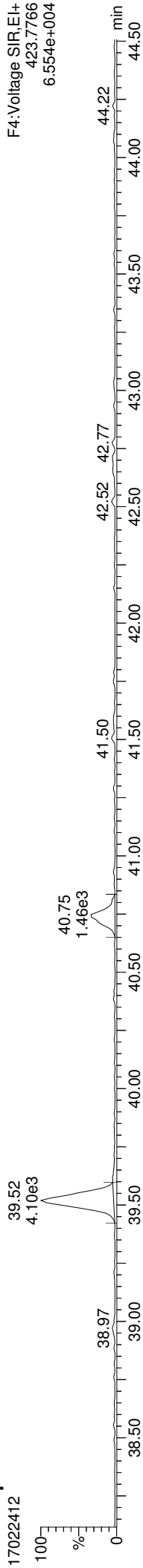
13C-1234678-HpCDD



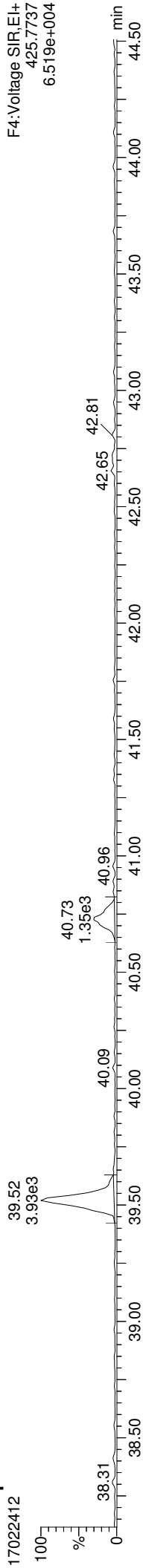
13C-1234678-HpCDD



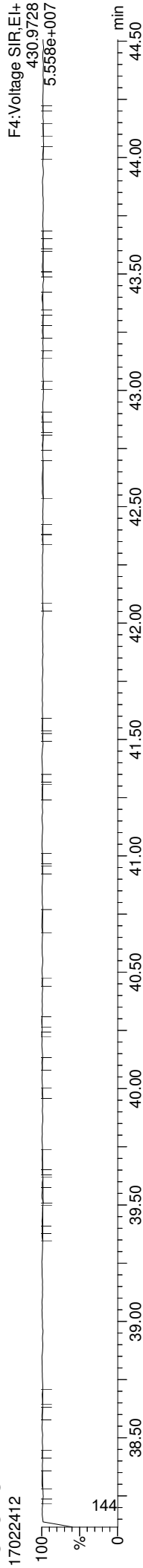
Total-heptadioxins



Total-heptadioxins

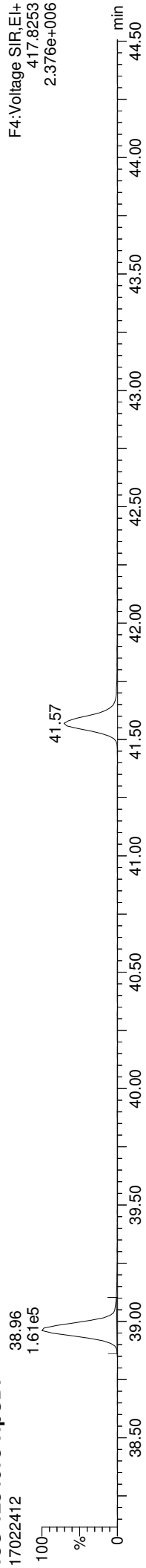


FUNCTION4 PFK

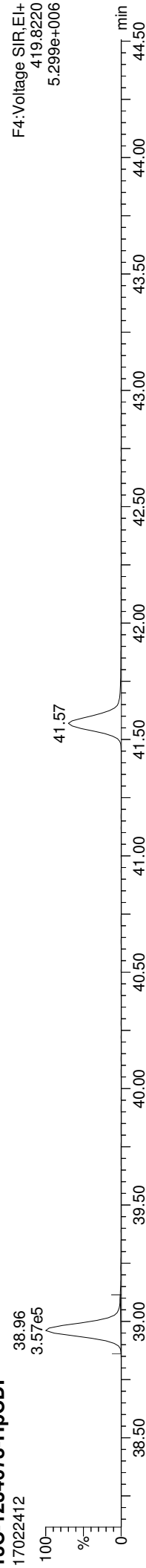


ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

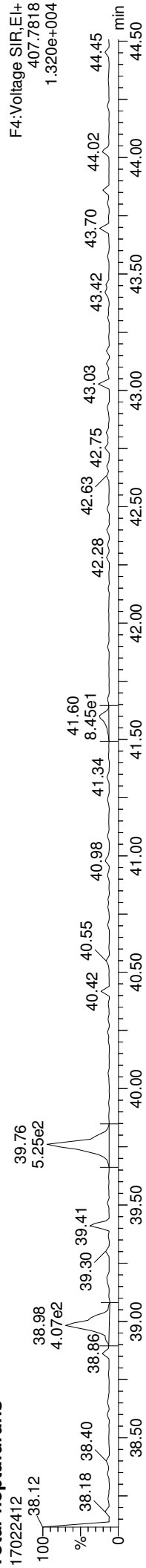
13C-1234678-HpCDF



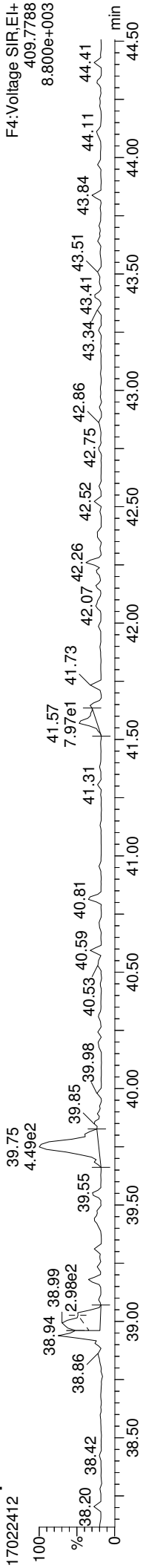
13C-1234678-HpCDF



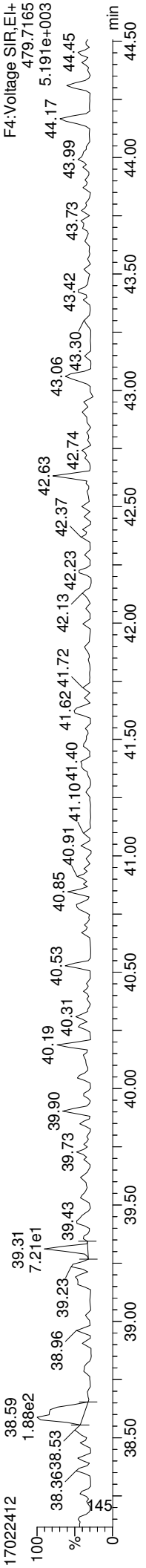
Total-heptafurans



Total-heptafurans



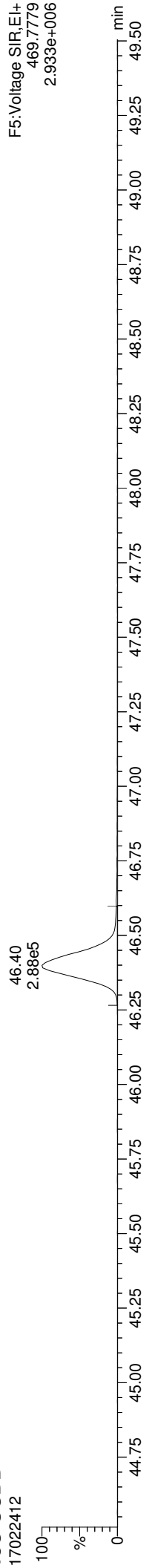
FUNCTION4 NCDPE



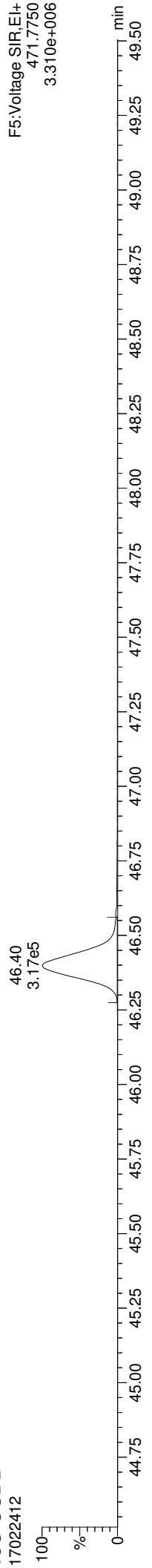
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170224D.d\qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

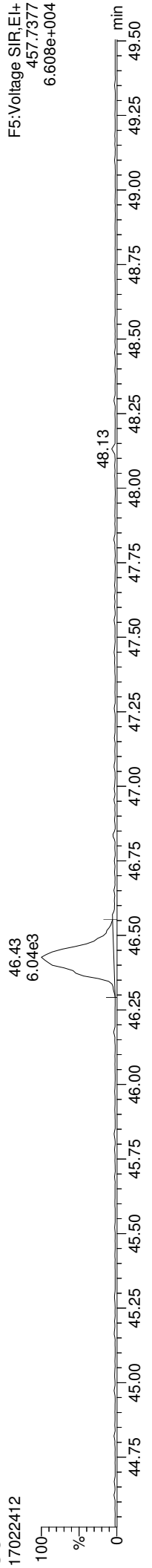
13C-OCDD



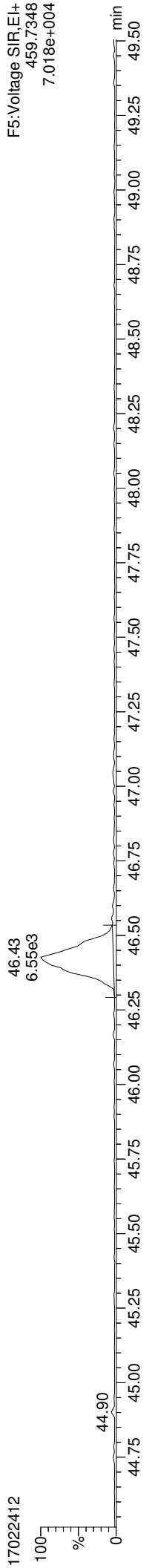
13C-OCDD



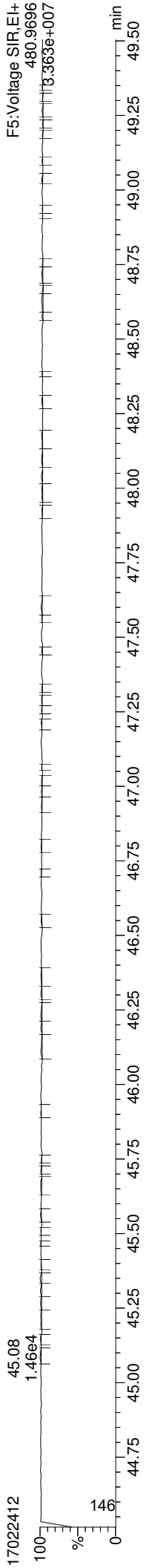
OCDD



OCDD



FUNCTION5 PFK

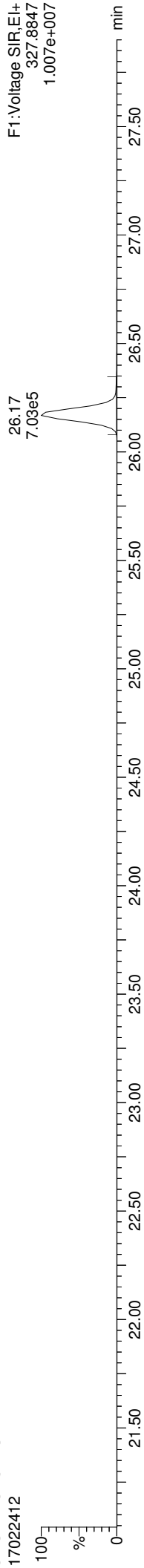


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

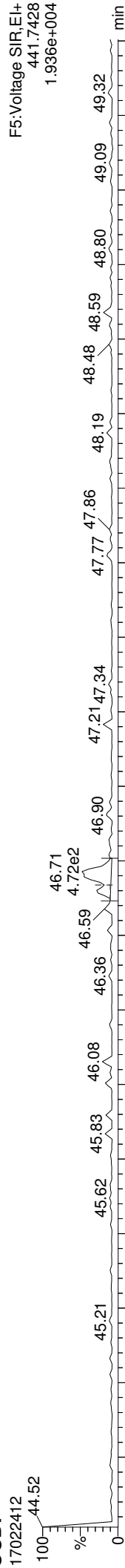
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:22 Pacific Standard Time

ID: 16K0053-08RE1, Name: 17022412, Date: 24-Feb-2017, Time: 22:58:40, Conditions: AUTOSPEC01, User: PK

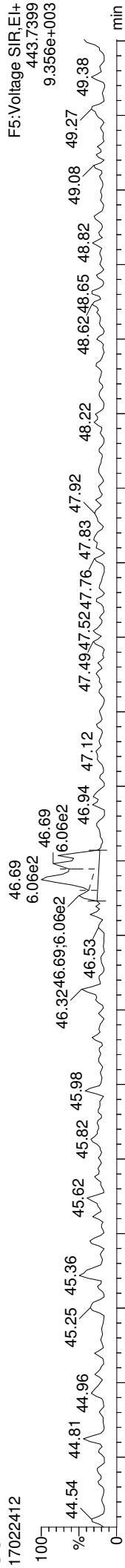
37CL-2378-TCDD



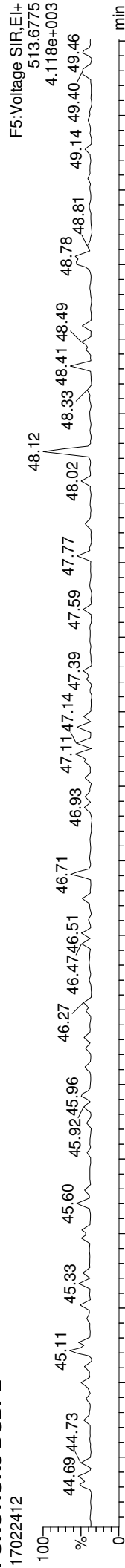
OCDF



OCDF



FUNCTION5 DCDPE





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-09RE1</u>
Sampled:	<u>01/05/17 14:53</u>	File ID:	<u>17022413</u>
Solids Wt%:		Prepared:	<u>02/22/17 12:00</u>
Result Basis:	<u>Dry</u>	Analyzed:	<u>02/24/17 23:51</u>
Batch:	<u>BFB0538</u>	Preparation:	<u>EPA 1613</u>
		Initial/Final:	<u>10.01 g / 20 uL</u>
		Sequence:	<u>SFB0342</u>
		Calibration:	<u>AA00071</u>
		Instrument:	<u>AUTOSPEC01</u>
		Column:	<u>RTX-Dioxin2</u>

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	1.043	0.655-0.886		0.999	0.210	ng/kg	EMPC, J
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.065	0.999	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.093	5.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.086	5.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.995	1.318-1.783		5.00	0.102	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.056	5.00	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.055	5.00	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.055	5.00	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.817	1.054-1.426		5.00	0.107	ng/kg	EMPC, J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.075	5.00	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.945	1.054-1.426		5.00	0.109	ng/kg	EMPC, J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.463	1.054-1.426		5.00	0.148	ng/kg	EMPC, J, B
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.169	0.893-1.208		5.00	0.290	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.271	0.893-1.208		5.00	0.088	ng/kg	EMPC, J, B
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.037	0.893-1.208		5.00	1.15	ng/kg	J, B
39001-02-0	OCDF	1	0.933	0.757-1.024		9.99	0.675	ng/kg	J, B
3268-87-9	OCDD	1	0.894	0.757-1.024		9.99	8.41	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	1.02	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.999	0.556	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.999	0.105	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.999	0.102	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.999	0.272	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.999	0.731	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.999	0.670	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.999	3.51	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.177
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.177



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-09RE1</u>
Sampled:	<u>01/05/17 14:53</u>	Prepared:	<u>02/22/17 12:00</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFB0342</u>
Batch:	<u>BFB0538</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17022413</u>
		Analyzed:	<u>02/24/17 23:51</u>
		Initial/Final:	<u>10.01 g / 20 uL</u>
		Calibration:	<u>AA00071</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.778	0.655-0.886		57.7	24 - 169 %	
13C12-2,3,7,8-TCDD		0.806	0.655-0.886		59.4	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.611	1.318-1.783		56.8	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.552	1.318-1.783		62.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.572	1.318-1.783		62.7	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.517	0.434-0.587		48.4	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.521	0.434-0.587		48.7	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.515	0.434-0.587		51.7	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.500	0.434-0.587		57.2	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.263	1.054-1.426		52.3	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.234	1.054-1.426		52.7	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.452	0.374-0.506		49.2	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.462	0.374-0.506		60.2	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.056	0.893-1.208		54.8	23 - 140 %	
13C12-OCDD		0.914	0.757-1.024		50.6	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			95.8	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF	25.540	1.001	8.05e2	7.72e2	0.924	1.043	0.770	1124	1689	1.19e4	9.62e3	10.6	YES	0.105
12378-PeCDF				0.954			1.550	1146	1769					
23478-PeCDF				0.966			1.550	1146	1769					
123478-HxCDF				1.141			1.240	1025	737					
234678-HxCDF				1.181			1.240	1025	737					
123678-HxCDF				1.089			1.240	1025	737					
123789-HxCDF	36.932	1.001	2.80e2	3.43e2	1.110	0.817	1.240	1025	737	6.24e3	7.48e3	6.1	YES	0.054
1234678-HpCDF	38.993	1.001	9.32e2	7.97e2	1.267	1.169	1.050	659	425	1.66e4	1.28e4	25.3	NO	0.145
1234789-HpCDF	41.558	0.999	2.40e2	1.89e2	1.295	1.271	1.050	659	425	3.39e3	2.63e3	5.1	YES	0.044
OCDF	46.696	1.006	9.51e2	1.02e3	1.067	0.933	0.890	679	1238	1.02e4	1.20e4	15.0	NO	0.338
2378-TCDD				1.150			0.770	861	899					
12378-PeCDD	31.287	1.001	2.27e2	2.28e2	1.017	0.995	1.550	1185	989	4.33e3	4.76e3	3.7	YES	0.051
123478-HxCDD				1.017			1.240	878	904					
123678-HxCDD	36.045	1.000	3.51e2	1.81e2	0.964	1.945	1.240	878	904	6.87e3	4.57e3	7.8	YES	0.055
123789-HxCDD	36.472	1.012	4.09e2	2.80e2	0.948	1.463	1.240	878	904	8.27e3	4.32e3	9.4	YES	0.074
1234678-HpCDD	40.747	1.000	2.42e3	2.33e3	1.051	1.037	1.050	853	665	3.48e4	3.24e4	40.8	NO	0.574
OCDD	46.427	1.000	1.12e4	1.25e4	1.030	0.894	0.890	393	550	1.20e5	1.21e5	304.8	NO	4.209
13C-2378-TCDF	25.525	1.007	7.09e5	9.11e5	1.515	0.778	0.770	8794	3792	1.03e7	1.33e7	1170.2	NO	57.653
13C-12378-PeCDF	29.654	1.170	8.30e5	5.15e5	1.276	1.611	1.550	3614	2848	1.21e7	7.45e6	3344.5	NO	56.840
13C-23478-PeCDF	31.003	1.223	8.79e5	5.66e5	1.257	1.552	1.550	3614	2848	1.28e7	8.27e6	3543.5	NO	61.968
13C-123478-HxCDF	34.664	0.951	3.89e5	7.52e5	1.431	0.517	0.510	5656	3546	5.68e6	1.08e7	1005.0	NO	48.425
13C-123678-HxCDF	34.817	0.955	4.27e5	8.19e5	1.552	0.521	0.510	5656	3546	5.99e6	1.16e7	1058.3	NO	48.717
13C-234678-HxCDF	35.771	0.981	3.90e5	7.58e5	1.349	0.515	0.510	5656	3546	5.53e6	1.06e7	977.3	NO	51.695
13C-123789-HxCDF	36.911	1.013	3.49e5	6.98e5	1.111	0.500	0.510	5656	3546	4.91e6	9.53e6	868.7	NO	57.192
13C-1234678-HpCDF	38.971	1.069	2.92e5	6.47e5	1.160	0.452	0.440	1970	3186	4.41e6	9.68e6	2236.8	NO	49.159
13C-1234789-HpCDF	41.580	1.141	2.38e5	5.14e5	0.758	0.462	0.440	1970	3186	3.07e6	6.65e6	1561.1	NO	60.198
13C-1234-TCDD	25.346	0.000	8.19e5	1.04e6	1.000	0.791	0.770	3300	1604	1.20e7	1.53e7	3649.5	NO	100.000
13C-2378-TCDD	26.152	1.032	4.29e5	5.32e5	0.872	0.806	0.770	3300	1604	6.30e6	7.71e6	1909.8	NO	59.431
13C-12378-PeCDD	31.243	1.233	5.36e5	3.41e5	0.754	1.572	1.550	1750	2291	7.64e6	4.81e6	4364.8	NO	62.726
13C-123478-HxCDD	35.902	0.985	5.32e5	4.21e5	1.106	1.263	1.240	2468	3123	7.79e6	6.21e6	3156.4	NO	52.313
13C-123678-HxCDD	36.034	0.989	5.59e5	4.53e5	1.165	1.234	1.240	2468	3123	8.04e6	6.30e6	3258.1	NO	52.709
13C-1234678-HpCDD	40.725	1.117	4.04e5	3.83e5	0.872	1.056	1.050	3402	3814	5.48e6	5.22e6	1610.9	NO	54.752
13C-OCDD	46.409	1.273	5.22e5	5.71e5	0.655	0.914	0.890	1665	1659	5.35e6	5.82e6	3216.0	NO	101.267
13C-123789-HxCDD	36.450	0.000	9.21e5	7.26e5	1.000	1.269	1.240	2468	3123	1.30e7	1.04e7	5254.4	NO	100.000
Total-tetrafurans			3.42e3		0.924			1124		4.40e4				0.512

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170224D.d
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			0.00e0					676		0.00e0				
Total-pentafurans			3.11e2		0.960			1146		6.55e3				0.053
Total-hexafurans			8.21e2		1.130			1025		1.85e4				0.136
Total-heptafurans			1.91e3		1.281			659		2.96e4				0.335
Total-Furans			7.42e3		1.100			1124		1.09e5				1.374
Total-tetradioxins			1.56e3		1.150			861		2.16e4				0.278
Total-pentadioxins			2.27e2		1.017			1185		4.33e3				0.051
Total-hexadioxins			1.88e3		0.977			878		3.61e4				0.366
Total-heptadioxins			6.92e3		1.051			853		9.98e4				1.756
Total-Dioxins			2.18e4		1.025			861		2.82e5				6.659
Total-TEQ			2.92e4					861		3.91e5				8.033
37CL-2378-TCDD	26.167	1.032	7.63e5		1.073			1671		1.06e7		6364.0		38.326
FUNCTION1 PFK			5.32e5					709403		1.29e7				
FUNCTION2 PFK			0.00e0					189192		0.00e0				
FUNCTION3 PFK			2.04e6					524803		5.78e6				0.000
FUNCTION4 PFK			0.00e0					410728		0.00e0				
FUNCTION5 PFK			3.94e5					261658		1.59e7				
FUNCTION1 HXCD...			6.62e3					522		9.15e4				0.000
FUNCTION1 HPCD...			2.87e3					884		4.35e4				0.000
FUNCTION2 HPCD...			2.73e2					1178		7.67e3				0.000
FUNCTION3 OCDPE			0.00e0					336		0.00e0				
FUNCTION4 NCDPE			8.89e2					811		1.74e4				0.000
FUNCTION5 DCDPE			0.00e0					295		0.00e0				

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.48	1210.951	0.924	0.081		0.70	0.77	NO	5.0
2	35 Total-tetrafurans	303.9016	23.79	788.358	0.924	0.053		0.79	0.77	NO	3.6
3	35 Total-tetrafurans	303.9016	22.91	1341.466	0.924	0.090		0.62	0.77	YES	5.3
4	35 Total-tetrafurans	303.9016	22.04	659.333	0.924	0.044		0.58	0.77	YES	3.4
5	35 Total-tetrafurans	303.9016	25.79	1163.364	0.924	0.078		0.88	0.77	NO	6.6
6	1 2378-TCDF	303.9016	25.54	1576.321	0.924	0.105	0.091	1.04	0.77	YES	10.6
7	35 Total-tetrafurans	303.9016	25.32	930.186	0.924	0.062		1.05	0.77	YES	4.6

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	37 Total-pentafurans	339.8597	28.53	703.236	0.960	0.053		0.79	1.55	YES	5.7

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7 123789-HxCDF	373.8208	36.93	622.677	1.110	0.054	0.044	0.82	1.24	YES	6.1
2	38 Total-hexafurans	373.8208	36.91	360.376	1.130	0.028		1.52	1.24	YES	6.9
3	38 Total-hexafurans	373.8208	34.03	706.727	1.130	0.055		0.85	1.24	YES	5.1

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	41.56	429.044	1.295	0.044	0.040	1.27	1.05	YES	5.1
2	39 Total-heptafurans	407.7818	39.75	1582.004	1.281	0.146		0.87	1.05	YES	14.6
3	8 1234678-HpCDF	407.7818	38.99	1728.486	1.267	0.145	0.145	1.17	1.05	NO	25.3

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 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.48	1210.951	0.924	0.081		0.70	0.77	NO	5.0
2	35 Total-tetrafurans	303.9016	23.79	788.358	0.924	0.053		0.79	0.77	NO	3.6
3	35 Total-tetrafurans	303.9016	22.91	1341.466	0.924	0.090		0.62	0.77	YES	5.3
4	35 Total-tetrafurans	303.9016	22.04	659.333	0.924	0.044		0.58	0.77	YES	3.4
5	35 Total-tetrafurans	303.9016	25.79	1163.364	0.924	0.078		0.88	0.77	NO	6.6
6	1 2378-TCDF	303.9016	25.54	1576.321	0.924	0.105	0.091	1.04	0.77	YES	10.6
7	35 Total-tetrafurans	303.9016	25.32	930.186	0.924	0.062		1.05	0.77	YES	4.6
8	37 Total-pentafurans	339.8597	28.53	703.236	0.960	0.053		0.79	1.55	YES	5.7
9	7 123789-HxCDF	373.8208	36.93	622.677	1.110	0.054	0.044	0.82	1.24	YES	6.1
10	38 Total-hexafurans	373.8208	36.91	360.376	1.130	0.028		1.52	1.24	YES	6.9
11	38 Total-hexafurans	373.8208	34.03	706.727	1.130	0.055		0.85	1.24	YES	5.1
12	9 1234789-HpCDF	407.7818	41.56	429.044	1.295	0.044	0.040	1.27	1.05	YES	5.1
13	39 Total-heptafurans	407.7818	39.75	1582.004	1.281	0.146		0.87	1.05	YES	14.6
14	8 1234678-HpCDF	407.7818	38.99	1728.486	1.267	0.145	0.145	1.17	1.05	NO	25.3
15	10 OCDF	441.7428	46.70	1969.699	1.067	0.338	0.338	0.93	0.89	NO	15.0

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	25.84	725.711	1.150	0.066		1.27	0.77	YES	4.9
2	41 Total-tetradioxins	319.8965	24.81	444.951	1.150	0.040		1.27	0.77	YES	6.7
3	41 Total-tetradioxins	319.8965	23.60	589.331	1.150	0.053		1.27	0.77	YES	4.0
4	41 Total-tetradioxins	319.8965	23.31	1316.105	1.150	0.119		0.78	0.77	NO	9.5

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	12 12378-PeCDD	355.8546	31.29	454.717	1.017	0.051	0.042	1.00	1.55	YES	3.7

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	33.78	1355.753	0.977	0.141		0.95	1.24	YES	11.6
2	15 123789-HxCDD	389.8157	36.47	688.413	0.948	0.074	0.067	1.46	1.24	YES	9.4
3	14 123678-HxCDD	389.8157	36.04	531.980	0.964	0.055	0.041	1.94	1.24	YES	7.8
4	43 Total-hexadioxins	389.8157	34.58	294.331	0.977	0.031		1.06	1.24	NO	4.2
5	43 Total-hexadioxins	389.8157	34.97	629.385	0.977	0.066		0.98	1.24	YES	8.0

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	40.75	4747.675	1.051	0.574	0.574	1.04	1.05	NO	40.8
2	44 Total-heptadioxins	423.7766	39.52	9767.754	1.051	1.181		0.86	1.05	YES	76.2

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradiioxins	319.8965	25.84	725.711	1.150	0.066		1.27	0.77	YES	4.9
2	41 Total-tetradiioxins	319.8965	24.81	444.951	1.150	0.040		1.27	0.77	YES	6.7
3	41 Total-tetradiioxins	319.8965	23.60	589.331	1.150	0.053		1.27	0.77	YES	4.0
4	41 Total-tetradiioxins	319.8965	23.31	1316.105	1.150	0.119		0.78	0.77	NO	9.5
5	43 Total-hexadiioxins	389.8157	33.78	1355.753	0.977	0.141		0.95	1.24	YES	11.6
6	12 12378-PeCDD	355.8546	31.29	454.717	1.017	0.051	0.042	1.00	1.55	YES	3.7
7	15 123789-HxCDD	389.8157	36.47	688.413	0.948	0.074	0.067	1.46	1.24	YES	9.4
8	14 123678-HxCDD	389.8157	36.04	531.980	0.964	0.055	0.041	1.94	1.24	YES	7.8
9	43 Total-hexadiioxins	389.8157	34.58	294.331	0.977	0.031		1.06	1.24	NO	4.2
10	16 1234678-HpCDD	423.7766	40.75	4747.675	1.051	0.574	0.574	1.04	1.05	NO	40.8
11	44 Total-heptadiioxins	423.7766	39.52	9767.754	1.051	1.181		0.86	1.05	YES	76.2
12	17 OCDD	457.7377	46.43	23693.919	1.030	4.209	4.209	0.89	0.89	NO	304.8
13	43 Total-hexadiioxins	389.8157	34.97	629.385	0.977	0.066		0.98	1.24	YES	8.0

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	24.48	1210.951	0.924	0.081		0.70	0.77	NO	5.0
2	35 Total-tetrafurans	303.9016	23.79	788.358	0.924	0.053		0.79	0.77	NO	3.6
3	35 Total-tetrafurans	303.9016	22.91	1341.466	0.924	0.090		0.62	0.77	YES	5.3
4	35 Total-tetrafurans	303.9016	22.04	659.333	0.924	0.044		0.58	0.77	YES	3.4
5	35 Total-tetrafurans	303.9016	25.79	1163.364	0.924	0.078		0.88	0.77	NO	6.6
6	1 2378-TCDF	303.9016	25.54	1576.321	0.924	0.105	0.091	1.04	0.77	YES	10.6
7	35 Total-tetrafurans	303.9016	25.32	930.186	0.924	0.062		1.05	0.77	YES	4.6
8	37 Total-pentafurans	339.8597	28.53	703.236	0.960	0.053		0.79	1.55	YES	5.7
9	7 123789-HxCDF	373.8208	36.93	622.677	1.110	0.054	0.044	0.82	1.24	YES	6.1
10	38 Total-hexafurans	373.8208	36.91	360.376	1.130	0.028		1.52	1.24	YES	6.9
11	38 Total-hexafurans	373.8208	34.03	706.727	1.130	0.055		0.85	1.24	YES	5.1
12	9 1234789-HpCDF	407.7818	41.56	429.044	1.295	0.044	0.040	1.27	1.05	YES	5.1
13	39 Total-heptafurans	407.7818	39.75	1582.004	1.281	0.146		0.87	1.05	YES	14.6
14	8 1234678-HpCDF	407.7818	38.99	1728.486	1.267	0.145	0.145	1.17	1.05	NO	25.3
15	10 OCDF	441.7428	46.70	1969.699	1.067	0.338	0.338	0.93	0.89	NO	15.0
16	41 Total-tetradiioxins	319.8965	25.84	725.711	1.150	0.066		1.27	0.77	YES	4.9
17	41 Total-tetradiioxins	319.8965	24.81	444.951	1.150	0.040		1.27	0.77	YES	6.7
18	41 Total-tetradiioxins	319.8965	23.60	589.331	1.150	0.053		1.27	0.77	YES	4.0
19	41 Total-tetradiioxins	319.8965	23.31	1316.105	1.150	0.119		0.78	0.77	NO	9.5
20	43 Total-hexadiioxins	389.8157	33.78	1355.753	0.977	0.141		0.95	1.24	YES	11.6
21	12 12378-PeCDD	355.8546	31.29	454.717	1.017	0.051	0.042	1.00	1.55	YES	3.7
22	15 123789-HxCDD	389.8157	36.47	688.413	0.948	0.074	0.067	1.46	1.24	YES	9.4
23	14 123678-HxCDD	389.8157	36.04	531.980	0.964	0.055	0.041	1.94	1.24	YES	7.8
24	43 Total-hexadiioxins	389.8157	34.58	294.331	0.977	0.031		1.06	1.24	NO	4.2
25	16 1234678-HpCDD	423.7766	40.75	4747.675	1.051	0.574	0.574	1.04	1.05	NO	40.8
26	44 Total-heptadiioxins	423.7766	39.52	9767.754	1.051	1.181		0.86	1.05	YES	76.2
27	17 OCDD	457.7377	46.43	23693.919	1.030	4.209	4.209	0.89	0.89	NO	304.8
28	43 Total-hexadiioxins	389.8157	34.97	629.385	0.977	0.066		0.98	1.24	YES	8.0

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 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1	48 FUNCTION1 PFK	330.9792	26.82	0.000							1.0
2	48 FUNCTION1 PFK	330.9792	26.74	0.000							1.4
3	48 FUNCTION1 PFK	330.9792	26.63	0.000							0.4
4	48 FUNCTION1 PFK	330.9792	26.12	0.000							1.1
5	48 FUNCTION1 PFK	330.9792	25.39	0.000							0.8
6	48 FUNCTION1 PFK	330.9792	25.26	0.000							1.1
7	48 FUNCTION1 PFK	330.9792	23.42	0.000							0.5
8	48 FUNCTION1 PFK	330.9792	23.19	0.000							0.5
9	48 FUNCTION1 PFK	330.9792	22.60	0.000							0.7
10	48 FUNCTION1 PFK	330.9792	22.54	0.000							2.2
11	48 FUNCTION1 PFK	330.9792	22.37	0.000							0.9
12	48 FUNCTION1 PFK	330.9792	22.28	0.000							0.6
13	48 FUNCTION1 PFK	330.9792	22.13	0.000							1.3
14	48 FUNCTION1 PFK	330.9792	21.34	0.000							1.3
15	48 FUNCTION1 PFK	330.9792	27.74	0.000							0.9
16	48 FUNCTION1 PFK	330.9792	27.41	0.000							1.0
17	48 FUNCTION1 PFK	330.9792	27.35	0.000							0.8
18	48 FUNCTION1 PFK	330.9792	26.93	0.000							1.8

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1											

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1	50 FUNCTION3 PFK	380.9760	35.84	0.000		0.000					4.3
2	50 FUNCTION3 PFK	380.9760	34.78	0.000		0.000					6.7

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1											

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 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	44.94	0.000							1.7
2	52 FUNCTION5 PFK	480.9696	44.87	0.000							1.2
3	52 FUNCTION5 PFK	480.9696	44.71	0.000							1.1
4	52 FUNCTION5 PFK	480.9696	44.62	0.000							1.0
5	52 FUNCTION5 PFK	480.9696	44.60	0.000							0.7
6	52 FUNCTION5 PFK	480.9696	44.56	0.000							1.2
7	52 FUNCTION5 PFK	480.9696	46.71	0.000							0.9
8	52 FUNCTION5 PFK	480.9696	46.57	0.000							1.8
9	52 FUNCTION5 PFK	480.9696	46.53	0.000							3.3
10	52 FUNCTION5 PFK	480.9696	46.33	0.000							1.4
11	52 FUNCTION5 PFK	480.9696	46.25	0.000							0.6
12	52 FUNCTION5 PFK	480.9696	46.20	0.000							1.1
13	52 FUNCTION5 PFK	480.9696	46.10	0.000							0.8
14	52 FUNCTION5 PFK	480.9696	45.92	0.000							0.8
15	52 FUNCTION5 PFK	480.9696	45.89	0.000							0.7
16	52 FUNCTION5 PFK	480.9696	45.73	0.000							1.3
17	52 FUNCTION5 PFK	480.9696	45.57	0.000							0.5
18	52 FUNCTION5 PFK	480.9696	45.53	0.000							1.7
19	52 FUNCTION5 PFK	480.9696	45.46	0.000							1.6
20	52 FUNCTION5 PFK	480.9696	45.40	0.000							2.0
21	52 FUNCTION5 PFK	480.9696	45.11	0.000							1.4
22	52 FUNCTION5 PFK	480.9696	44.97	0.000							2.4
23	52 FUNCTION5 PFK	480.9696	48.17	0.000							1.0
24	52 FUNCTION5 PFK	480.9696	48.12	0.000							1.0
25	52 FUNCTION5 PFK	480.9696	48.10	0.000							0.8
26	52 FUNCTION5 PFK	480.9696	47.90	0.000							1.6
27	52 FUNCTION5 PFK	480.9696	47.76	0.000							0.7
28	52 FUNCTION5 PFK	480.9696	47.73	0.000							0.8
29	52 FUNCTION5 PFK	480.9696	47.66	0.000							0.9
30	52 FUNCTION5 PFK	480.9696	47.63	0.000							0.9
31	52 FUNCTION5 PFK	480.9696	47.52	0.000							1.1
32	52 FUNCTION5 PFK	480.9696	47.48	0.000							1.6
33	52 FUNCTION5 PFK	480.9696	47.45	0.000							1.3
34	52 FUNCTION5 PFK	480.9696	47.41	0.000							1.3
35	52 FUNCTION5 PFK	480.9696	47.27	0.000							1.6
36	52 FUNCTION5 PFK	480.9696	47.13	0.000							1.1
37	52 FUNCTION5 PFK	480.9696	46.97	0.000							0.6
38	52 FUNCTION5 PFK	480.9696	46.92	0.000							1.4
39	52 FUNCTION5 PFK	480.9696	49.29	0.000							2.1
40	52 FUNCTION5 PFK	480.9696	49.16	0.000							0.7
41	52 FUNCTION5 PFK	480.9696	49.07	0.000							1.6
42	52 FUNCTION5 PFK	480.9696	48.97	0.000							0.7
43	52 FUNCTION5 PFK	480.9696	48.90	0.000							1.1
44	52 FUNCTION5 PFK	480.9696	48.87	0.000							0.9
45	52 FUNCTION5 PFK	480.9696	48.72	0.000							0.6
46	52 FUNCTION5 PFK	480.9696	48.61	0.000							0.7
47	52 FUNCTION5 PFK	480.9696	48.45	0.000							1.2
48	52 FUNCTION5 PFK	480.9696	48.42	0.000							1.3
49	52 FUNCTION5 PFK	480.9696	48.37	0.000							1.9
50	52 FUNCTION5 PFK	480.9696	48.21	0.000							1.0

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ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	25.09	0.000		0.000					5.6
2	53 FUNCTION1 HXCD...	375.8364	23.76	0.000		0.000					2.0
3	53 FUNCTION1 HXCD...	375.8364	23.36	0.000		0.000					4.9
4	53 FUNCTION1 HXCD...	375.8364	27.32	0.000		0.000					3.1
5	53 FUNCTION1 HXCD...	375.8364	25.61	0.000		0.000					126.2
6	53 FUNCTION1 HXCD...	375.8364	25.35	0.000		0.000					33.4

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	26.14	0.000		0.000					5.6
2	54 FUNCTION1 HPCD...	409.7974	24.43	0.000		0.000					2.0
3	54 FUNCTION1 HPCD...	409.7974	24.34	0.000		0.000					4.0
4	54 FUNCTION1 HPCD...	409.7974	23.63	0.000		0.000					2.7
5	54 FUNCTION1 HPCD...	409.7974	21.85	0.000		0.000					34.9

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	32.46	0.000		0.000					3.0
2	55 FUNCTION2 HPCD...	409.7974	30.07	0.000		0.000					2.2
3	55 FUNCTION2 HPCD...	409.7974	29.48	0.000		0.000					1.4

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	38.58	0.000		0.000					15.8
2	57 FUNCTION4 NCDPE	479.7165	42.45	0.000		0.000					3.9
3	57 FUNCTION4 NCDPE	479.7165	40.42	0.000		0.000					1.9

ETHERS6

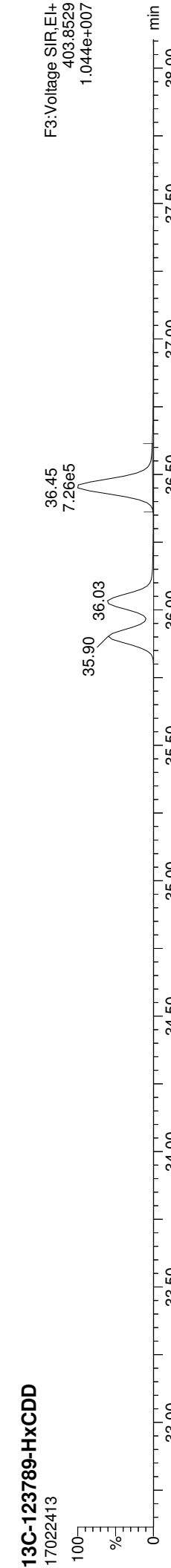
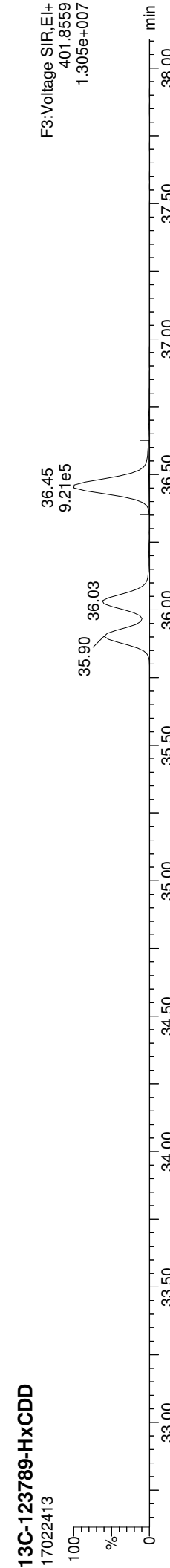
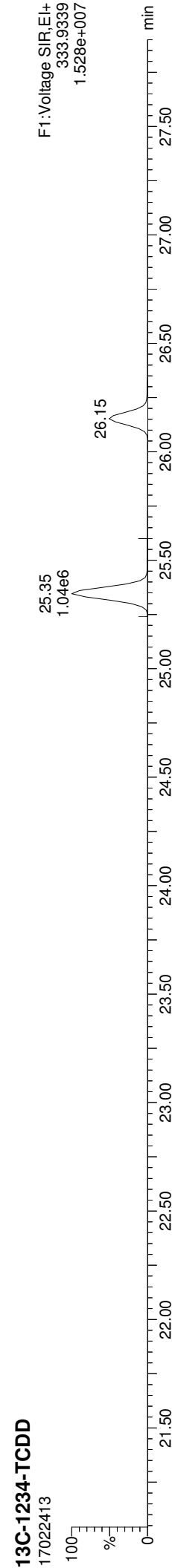
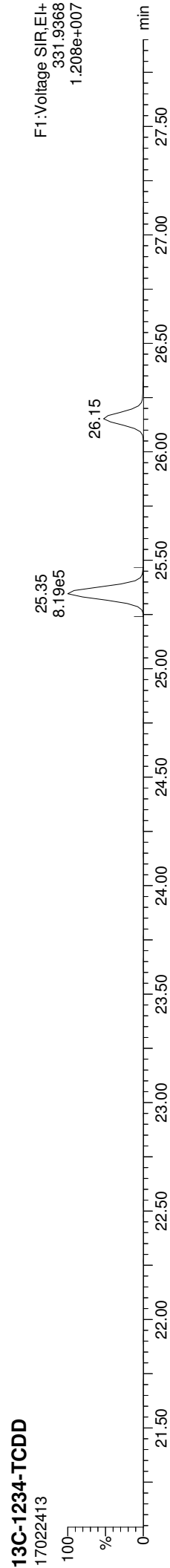
	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-09RE1, **Name:** 17022413, **Date:** 24-Feb-2017, **Time:** 23:51:58, **Conditions:** AUTOSPEC01, **User:** PK

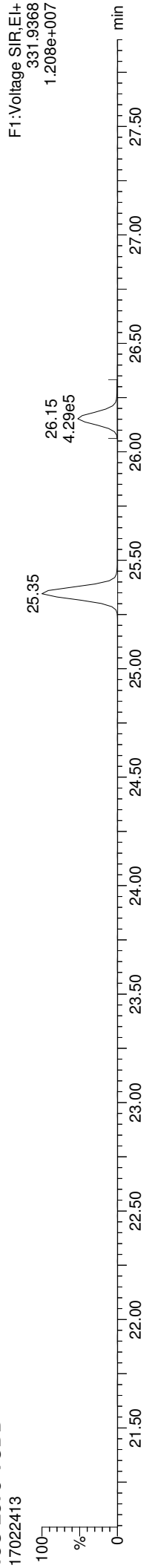


Quantify Sample Report

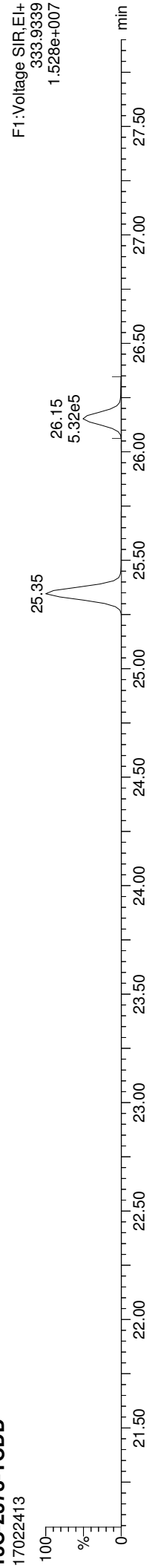
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

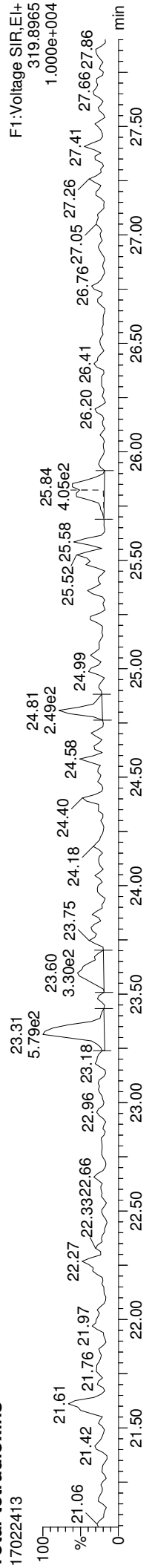
13C-2378-TCDD



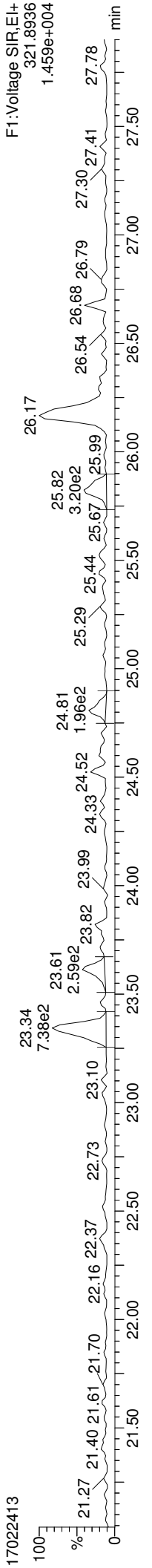
13C-2378-TCDD



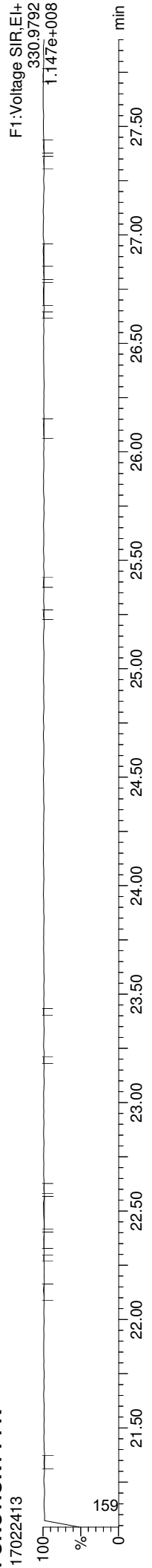
Total-tetradoxins



Total-tetradoxins

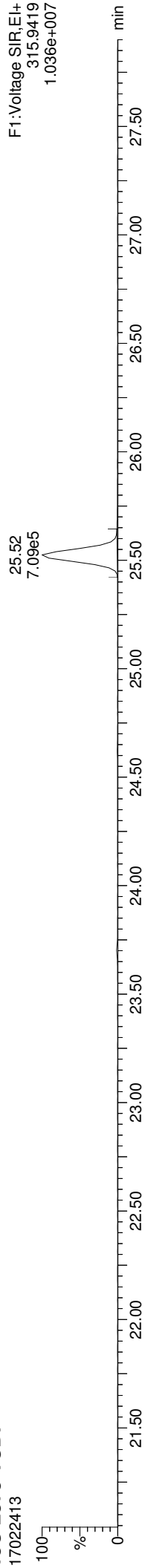


FUNCTION1 PFK

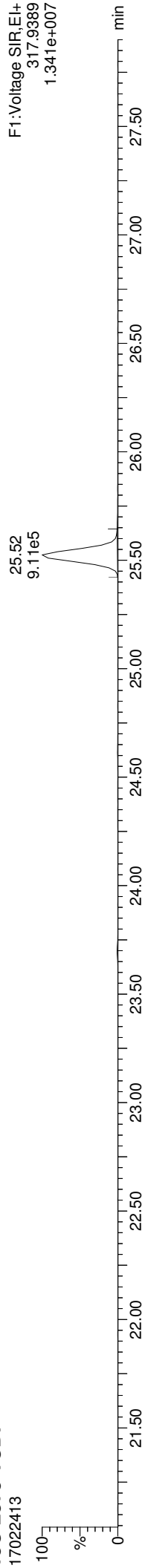


ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

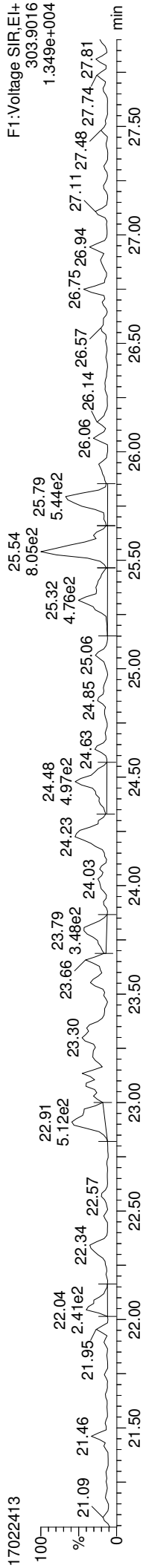
13C-2378-TCDF



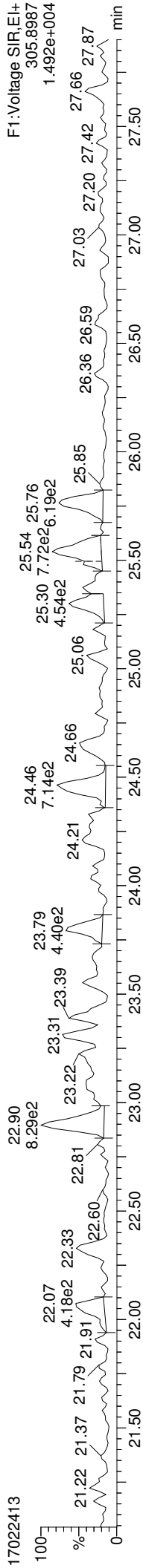
13C-2378-TCDF



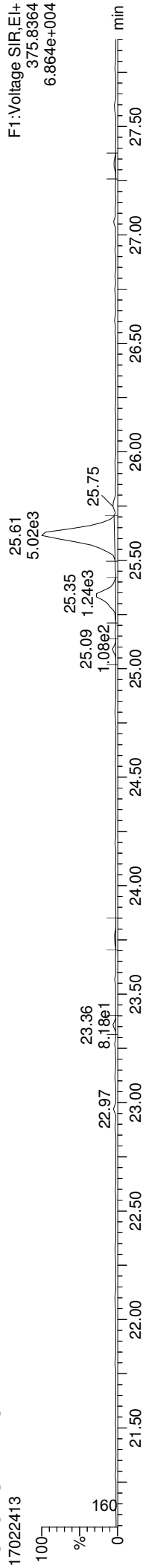
Total-tetrafurans



Total-tetrafurans



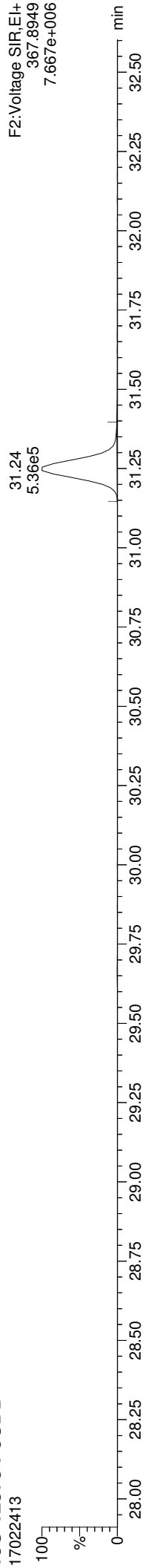
FUNCTION1 HXCDPE



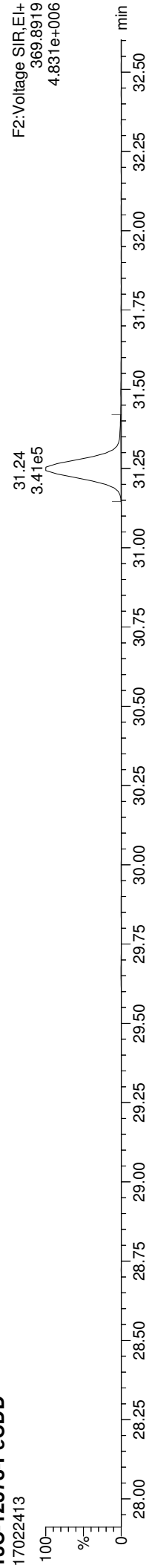
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17022413.D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

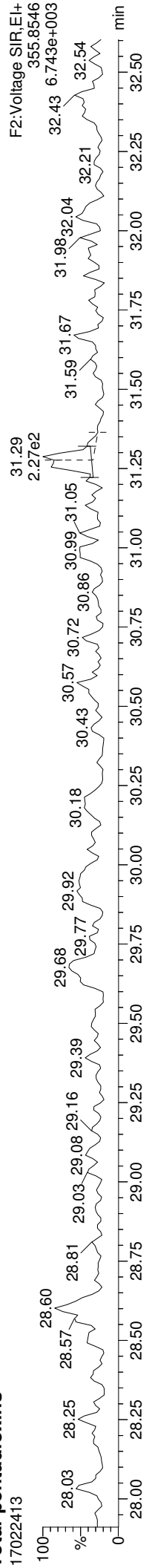
13C-12378-PeCDD



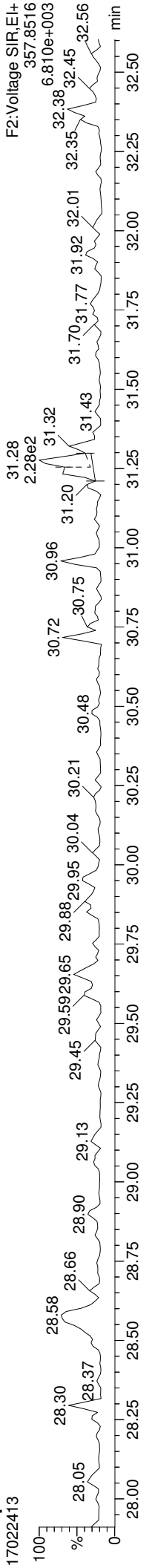
13C-12378-PeCDD



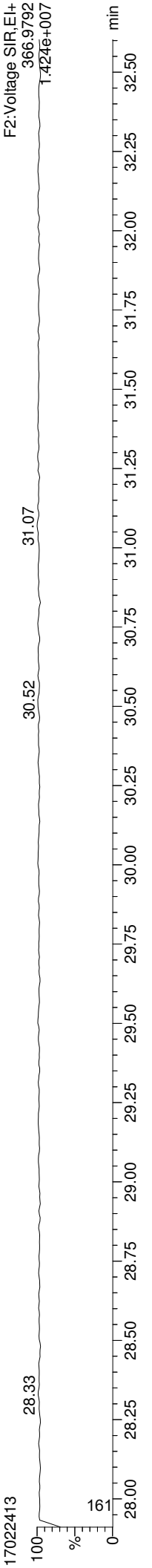
Total-pentadioxins



Total-pentadioxins

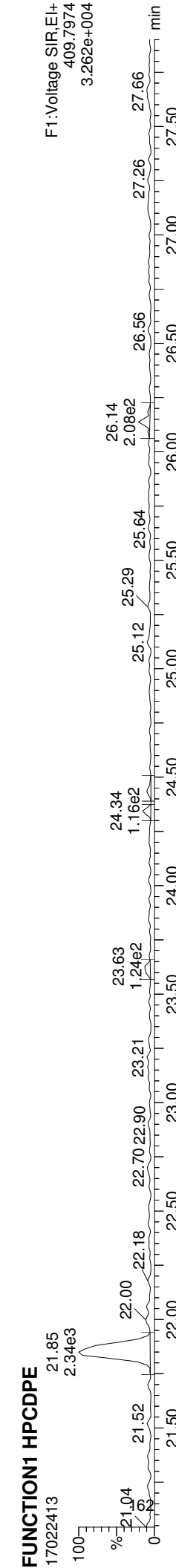
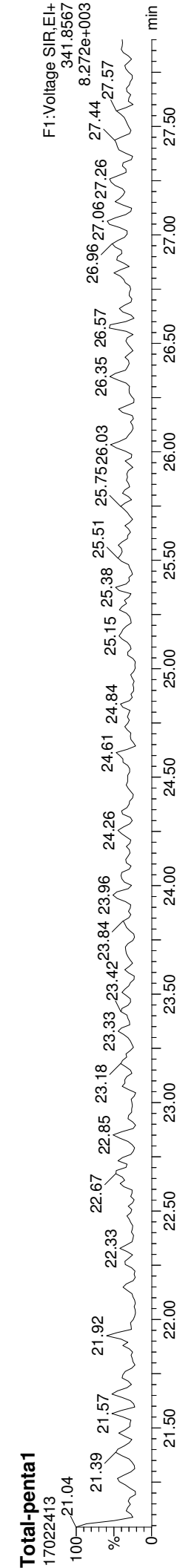
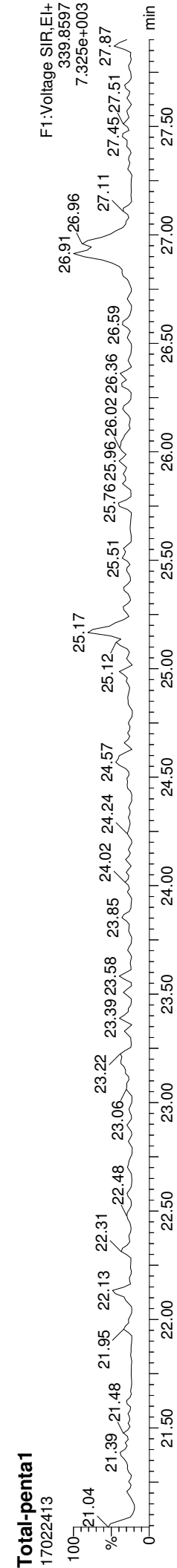
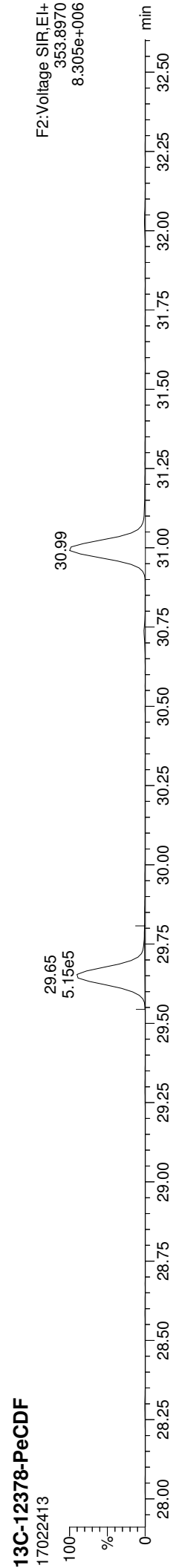
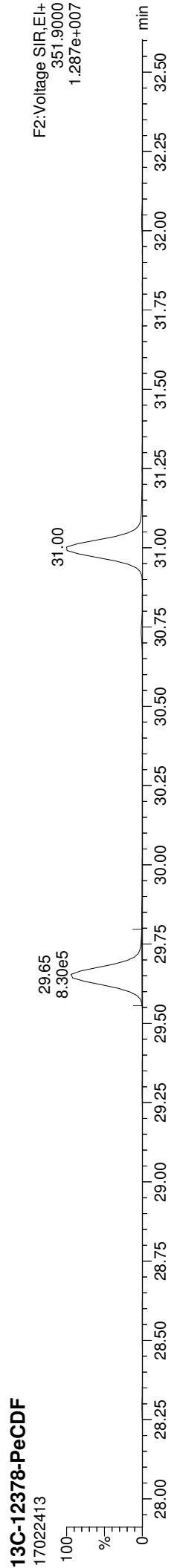


FUNCTION2 PFK



Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

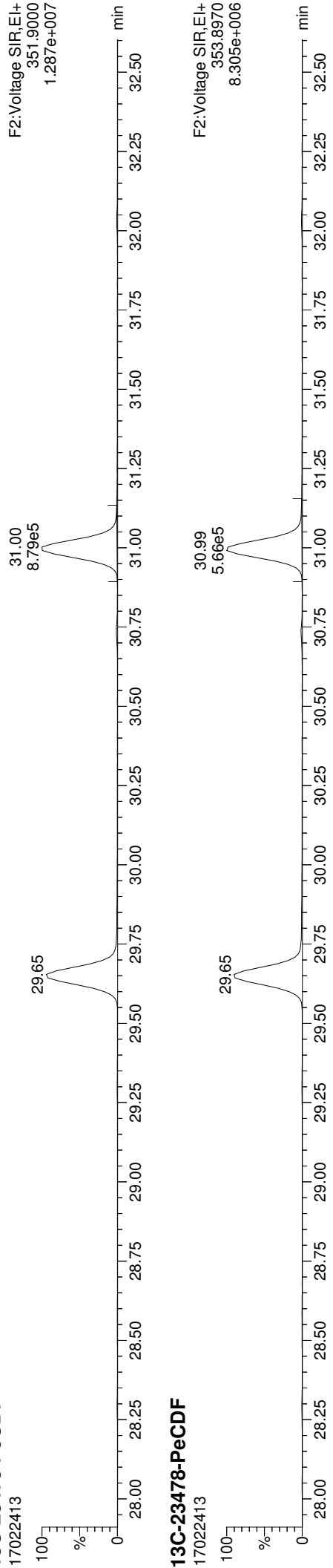
ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK



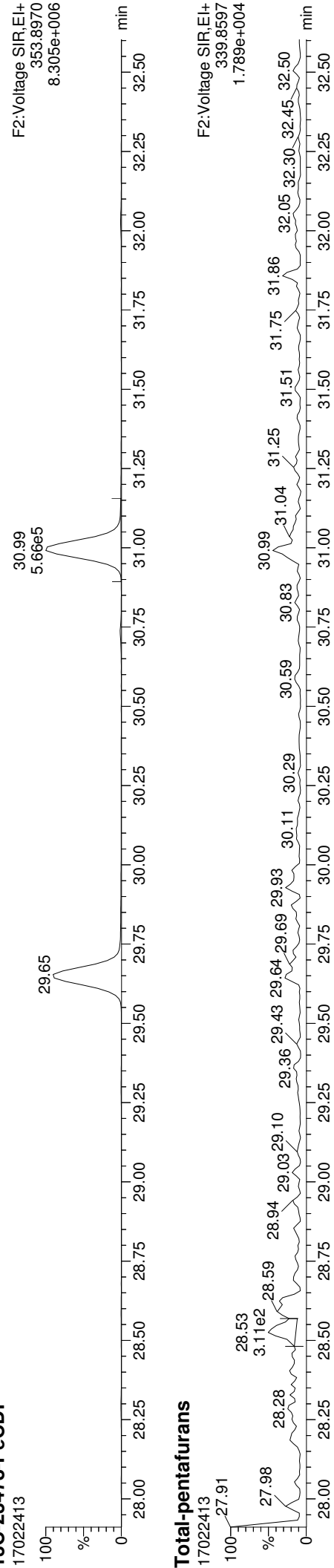
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

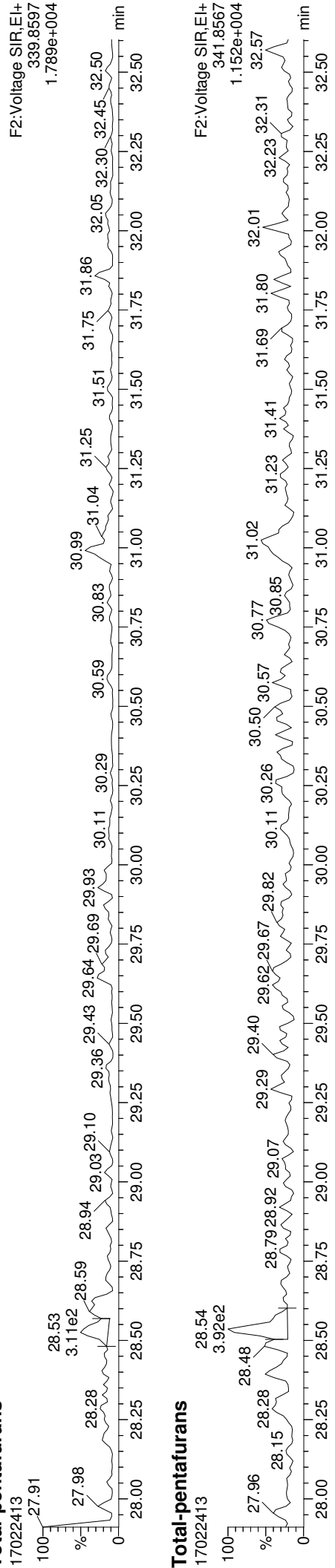
13C-23478-PeCDF



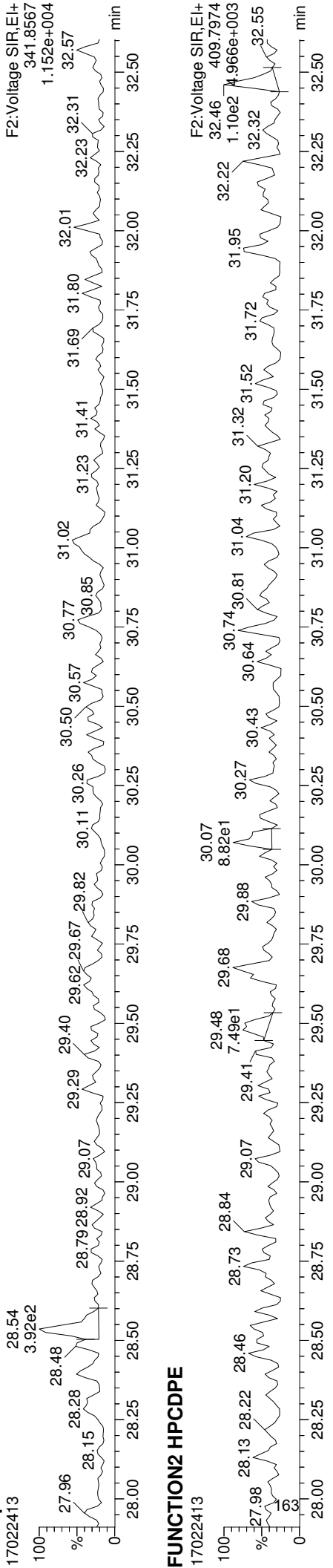
13C-23478-PeCDF



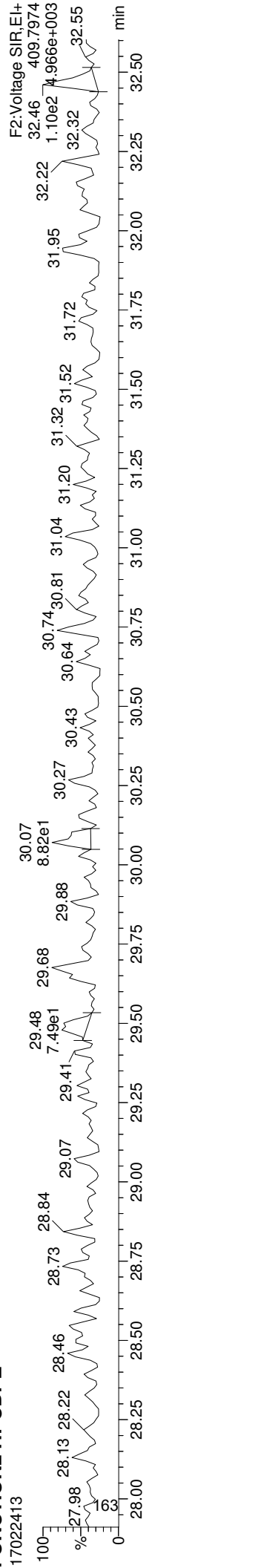
Total-pentafurans



Total-pentafurans



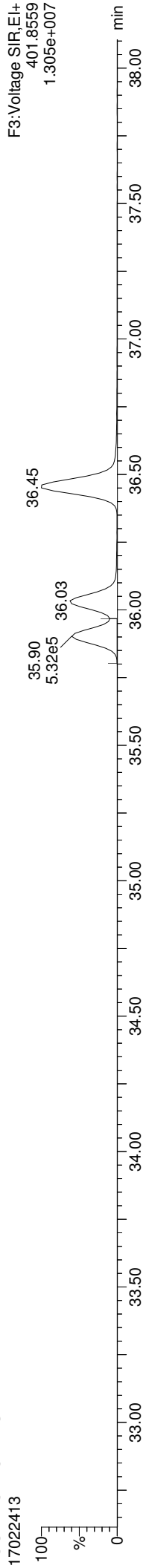
FUNCTION2 HPCDPE



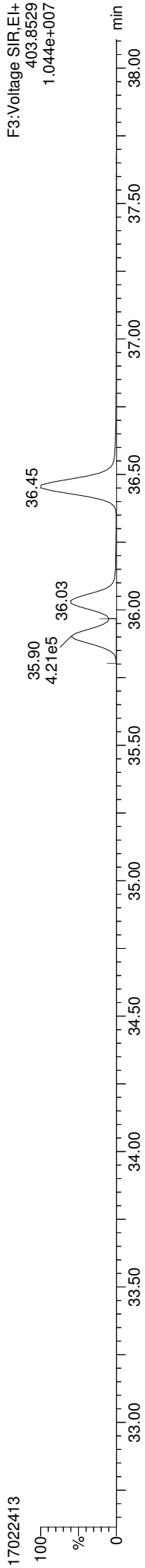
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

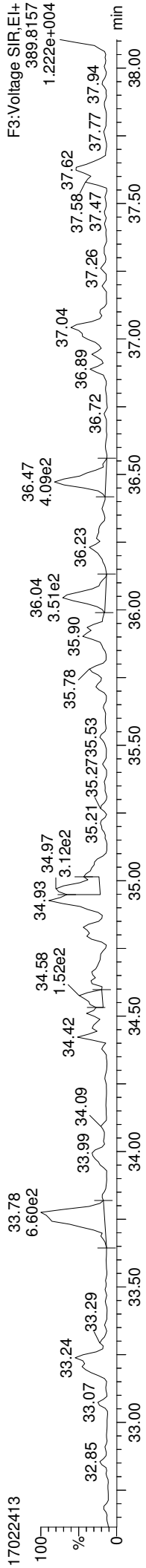
13C-123478-HxCDD



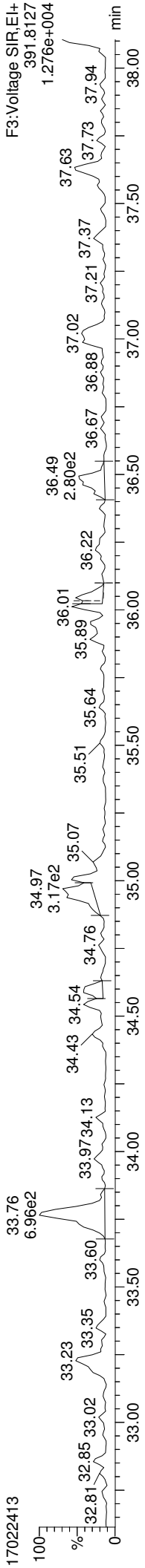
13C-123478-HxCDD



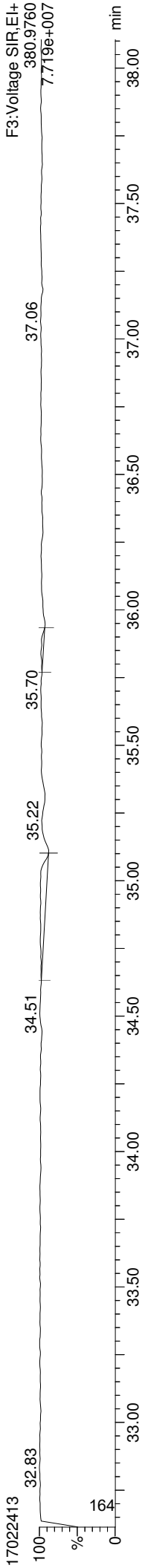
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

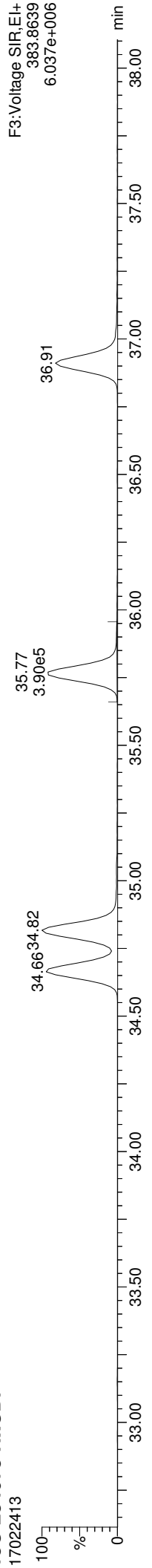


Quantify Sample Report
Dataset: C:\MassLynx\Dioxin.pro\17022413.D
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

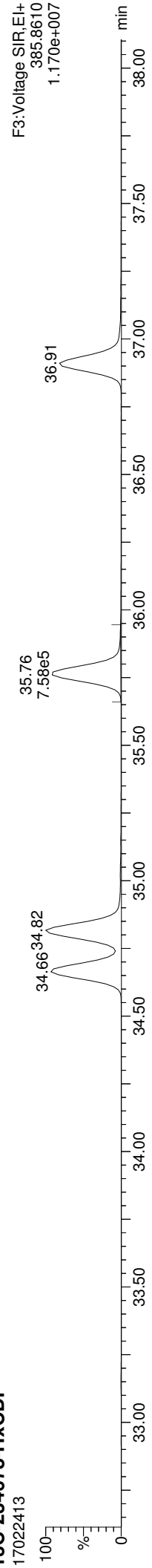
MassLynx MassLynx V4.1 SCN909

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

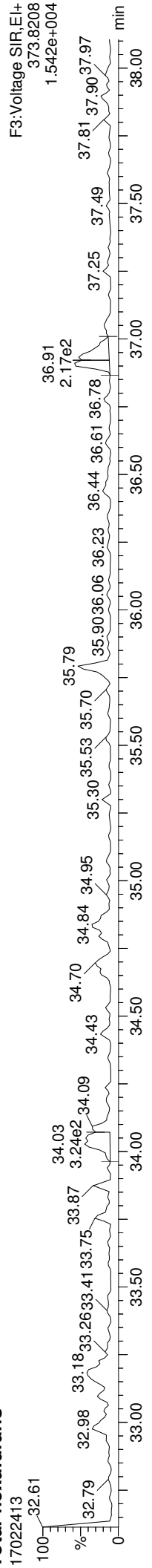
13C-234678-HxCDF



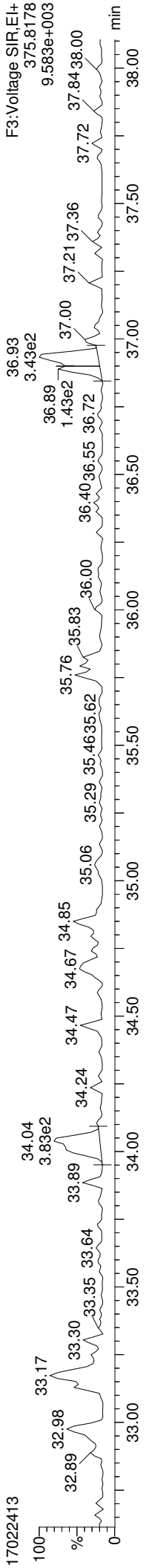
13C-234678-HxCDF



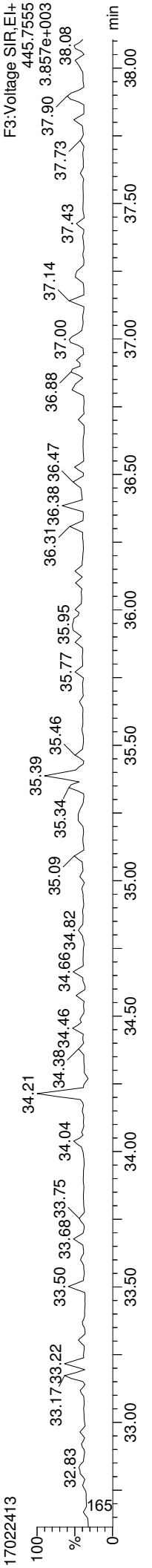
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

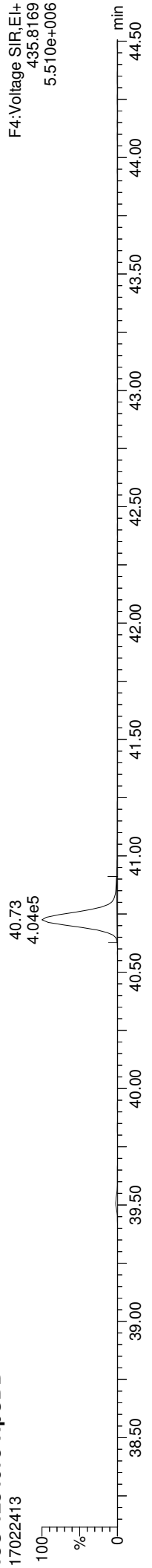


Quantify Sample Report
Dataset: C:\MassLynx\Dioxin.pro\170224D.d\ld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

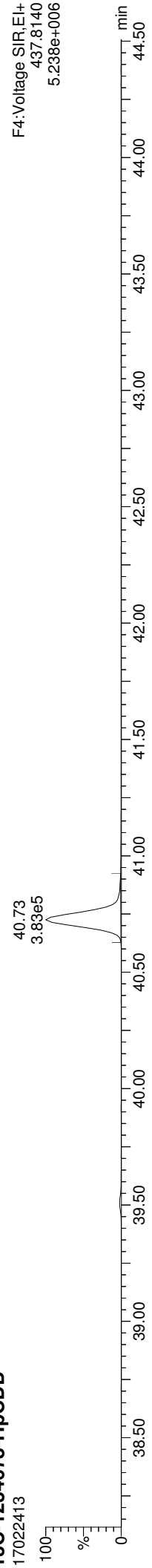
MassLynx MassLynx V4.1 SCN909

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

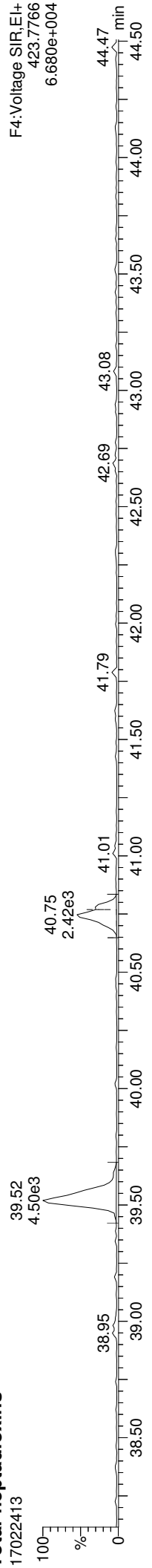
13C-1234678-HpCDD



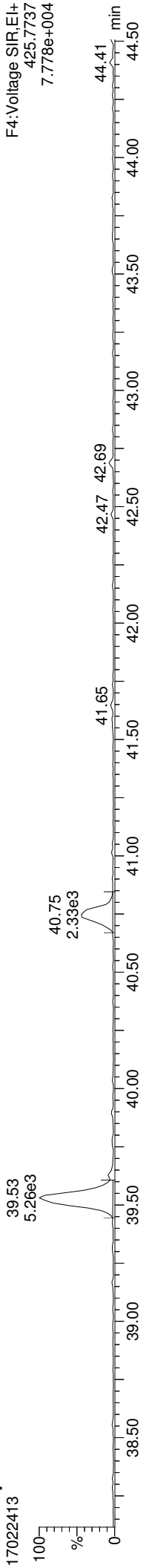
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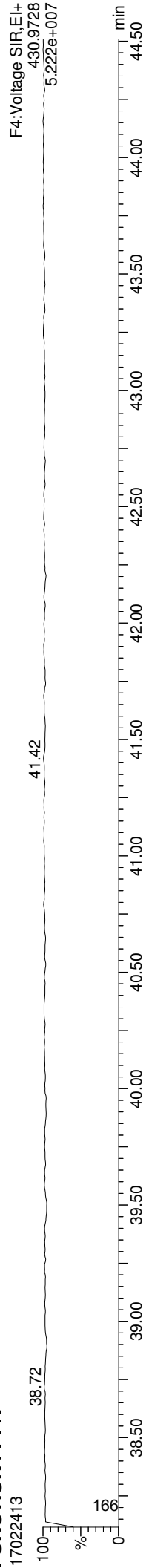
Total-heptadioxins



Total-heptadioxins

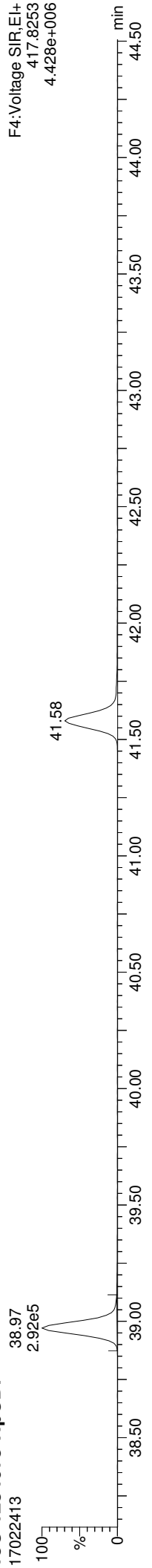


FUNCTION4 PFK

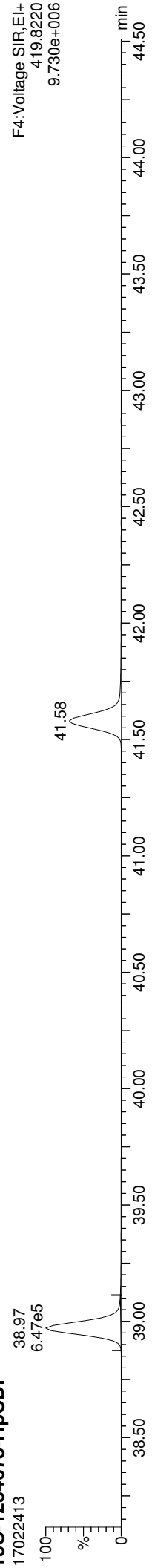


ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

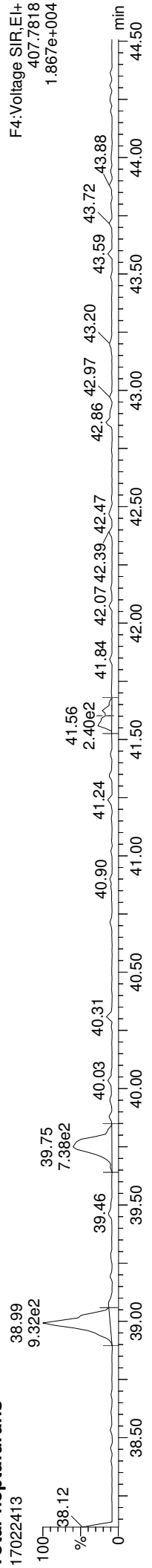
13C-1234678-HpCDF



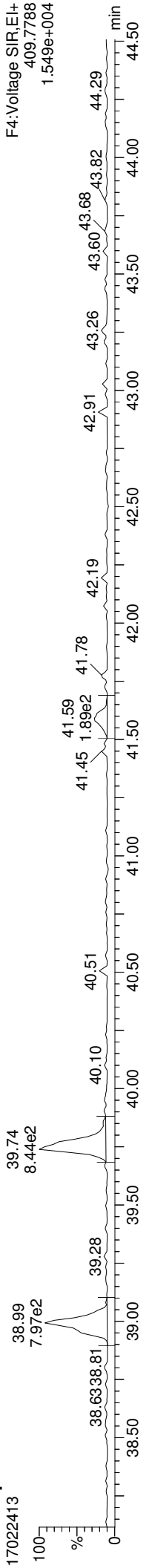
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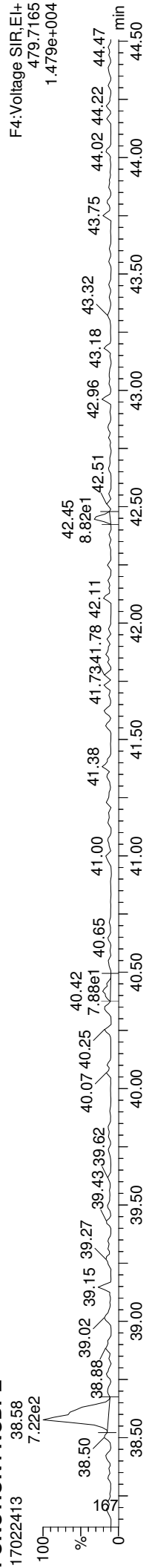
Total-heptafurans



Total-heptafurans



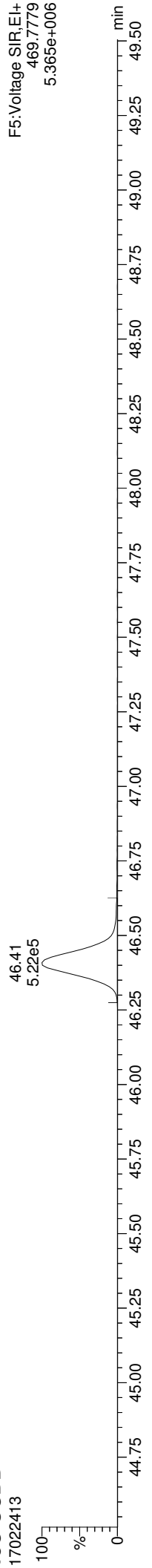
FUNCTION4 NCDPE



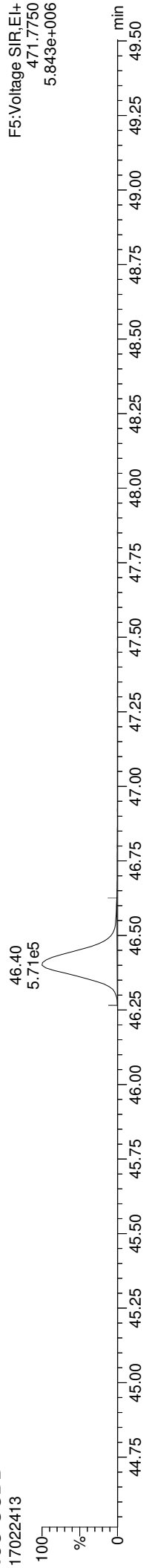
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

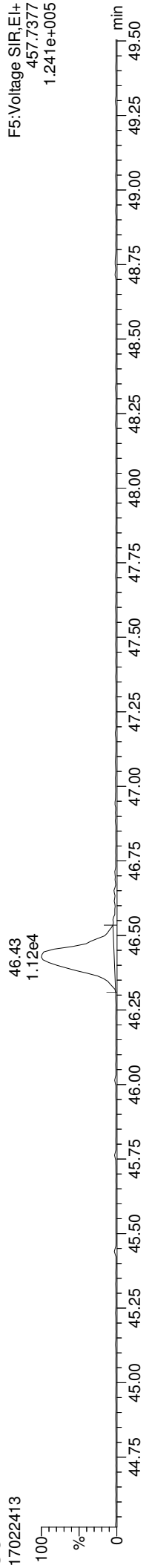
13C-OCDD



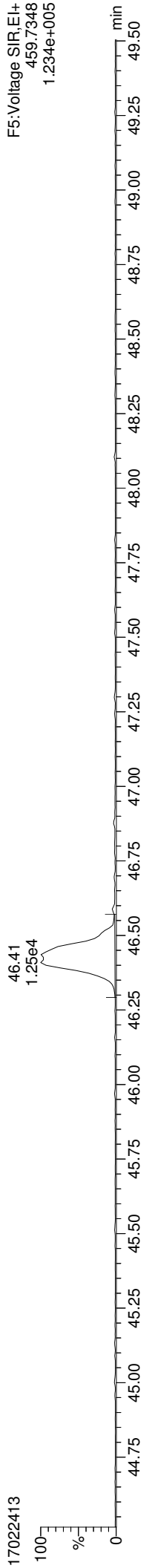
13C-OCDD



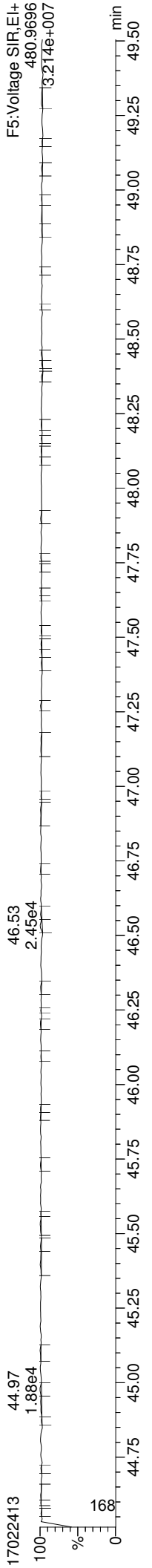
OCDD



OCDD



FUNCTION5 PFK

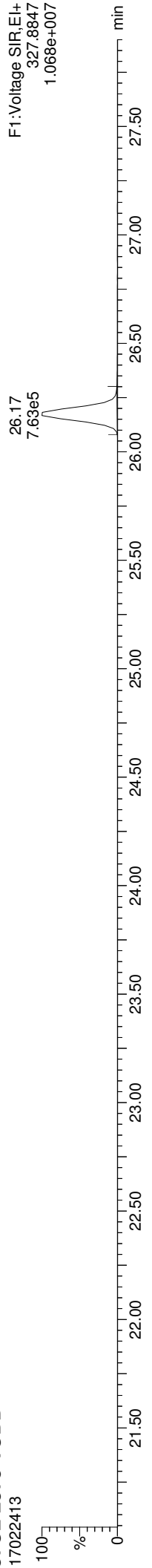


Quantify Sample Report

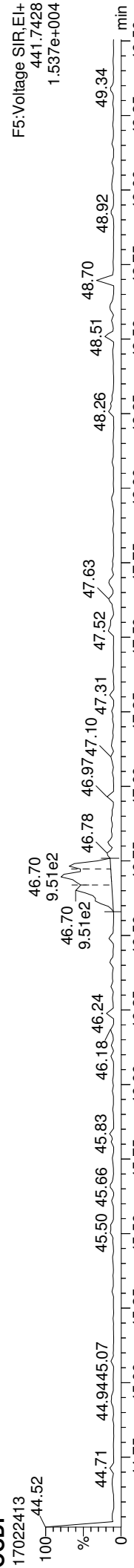
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:26 Pacific Standard Time

ID: 16K0053-09RE1, Name: 17022413, Date: 24-Feb-2017, Time: 23:51:58, Conditions: AUTOSPEC01, User: PK

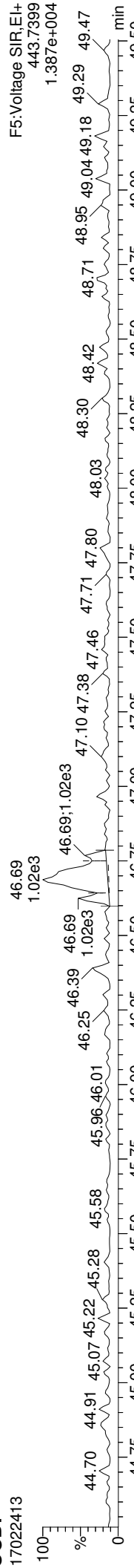
37CL-2378-TCDD



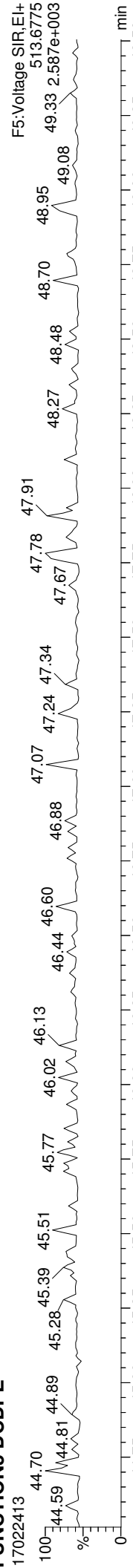
OCDF



OCDF



FUNCTION5 DCDPE





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17A0053
 Client: Anchor QEA, LLC Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17A0053-10 File ID: 17020816
 Sampled: 01/05/17 14:43 Prepared: 01/31/17 14:50 Analyzed: 02/09/17 00:01
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.55 g / 20 uL
 Result Basis: Dry Sequence: SFB0085 Calibration: AA00071
 Batch: BFA0657 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.148	0.948	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.148	0.948	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.161	4.74	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.153	4.74	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.196	4.74	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.105	4.74	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.109	4.74	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.113	4.74	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.124	4.74	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.189	4.74	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.197	4.74	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.201	4.74	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.793	0.893-1.208		4.74	0.205	ng/kg	EMPC, J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.180	4.74	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.232	0.893-1.208		4.74	1.01	ng/kg	EMPC, J, B
39001-02-0	OCDF	1	0.000	0.757-1.024	0.512	9.48	ND	ng/kg	U
3268-87-9	OCDD	1	0.763	0.757-1.024		9.48	7.51	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.948	0.192	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.948	0.272	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.948	0.144	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.948	ND	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.948	ND	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.948	ND	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.948	0.582	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.948	2.92	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.014
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.014



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-10</u>
Sampled:	<u>01/05/17 14:43</u>	Prepared:	<u>01/31/17 14:50</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFB0085</u>
Batch:	<u>BFA0657</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17020816</u>
		Analyzed:	<u>02/09/17 00:01</u>
		Initial/Final:	<u>10.55 g / 20 uL</u>
		Calibration:	<u>AA00071</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.752	0.655-0.886		20.6	24 - 169 %	*
13C12-2,3,7,8-TCDD		0.772	0.655-0.886		21.1	25 - 164 %	*
13C12-1,2,3,7,8-PeCDF		1.586	1.318-1.783		20.7	24 - 185 %	*
13C12-2,3,4,7,8-PeCDF		1.546	1.318-1.783		21.1	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.540	1.318-1.783		21.9	25 - 181 %	*
13C12-1,2,3,4,7,8-HxCDF		0.508	0.434-0.587		19.8	26 - 152 %	*
13C12-1,2,3,6,7,8-HxCDF		0.519	0.434-0.587		19.4	26 - 123 %	*
13C12-2,3,4,6,7,8-HxCDF		0.520	0.434-0.587		19.3	28 - 136 %	*
13C12-1,2,3,7,8,9-HxCDF		0.521	0.434-0.587		22.0	29 - 147 %	*
13C12-1,2,3,4,7,8-HxCDD		1.231	1.054-1.426		19.8	32 - 141 %	*
13C12-1,2,3,6,7,8-HxCDD		1.280	1.054-1.426		19.9	28 - 130 %	*
13C12-1,2,3,4,6,7,8-HpCDF		0.452	0.374-0.506		19.5	28 - 143 %	*
13C12-1,2,3,4,7,8,9-HpCDF		0.425	0.374-0.506		22.7	26 - 138 %	*
13C12-1,2,3,4,6,7,8-HpCDD		1.071	0.893-1.208		21.0	23 - 140 %	*
13C12-OCDD		0.885	0.757-1.024		17.0	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			96.1	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF					0.924		0.770	653	689					
12378-PeCDF					0.954		1.550	591	685					
23478-PeCDF					0.966		1.550	591	685					
123478-HxCDF					1.141		1.240	404	407					
234678-HxCDF					1.181		1.240	404	407					
123678-HxCDF					1.089		1.240	404	407					
123789-HxCDF					1.110		1.240	404	407					
1234678-HpCDF	39.645	1.000	1.78e2	9.93e1	1.267	1.793	1.050	438	361	4.35e3	2.09e3	9.9	YES	0.108
1234789-HpCDF					1.295		1.050	438	361					
OCDF					1.067		0.890	382	616					
2378-TCDD					1.150		0.770	457	545					
12378-PeCDD					1.017		1.550	593	450					
123478-HxCDD					1.017		1.240	523	476					
123678-HxCDD					0.964		1.240	523	476					
123789-HxCDD					0.948		1.240	523	476					
1234678-HpCDD	41.464	1.001	5.06e2	4.11e2	1.051	1.232	1.050	378	938	7.80e3	7.88e3	20.6	YES	0.531
OCDD	47.398	1.000	1.77e3	2.32e3	1.030	0.763	0.890	254	533	2.43e4	2.31e4	95.9	NO	3.963
13C-2378-TCDF	26.138	1.007	1.65e5	2.20e5	1.515	0.752	0.770	3085	1775	2.39e6	3.14e6	775.9	NO	20.642
13C-12378-PeCDF	30.283	1.167	2.00e5	1.26e5	1.276	1.586	1.550	2401	1414	2.91e6	1.85e6	1210.5	NO	20.720
13C-23478-PeCDF	31.632	1.219	1.99e5	1.28e5	1.257	1.546	1.550	2401	1414	2.99e6	1.94e6	1244.2	NO	21.127
13C-123478-HxCDF	35.326	0.952	8.54e4	1.68e5	1.431	0.508	0.510	1337	1964	1.30e6	2.50e6	975.3	NO	19.767
13C-123678-HxCDF	35.468	0.956	9.23e4	1.78e5	1.552	0.519	0.510	1337	1964	1.33e6	2.66e6	994.7	NO	19.426
13C-234678-HxCDF	36.411	0.981	7.96e4	1.53e5	1.349	0.520	0.510	1337	1964	1.18e6	2.29e6	883.5	NO	19.263
13C-123789-HxCDF	37.551	1.012	7.52e4	1.44e5	1.111	0.521	0.510	1337	1964	1.15e6	2.20e6	861.5	NO	22.025
13C-1234678-HpCDF	39.633	1.068	6.32e4	1.40e5	1.160	0.452	0.440	1287	1327	9.01e5	2.00e6	699.5	NO	19.513
13C-1234789-HpCDF	42.341	1.141	4.59e4	1.08e5	0.758	0.425	0.440	1287	1327	5.80e5	1.39e6	450.6	NO	22.666
13C-1234-TCDD	25.959	0.000	5.48e5	6.83e5	1.000	0.802	0.770	1354	1333	8.20e6	1.03e7	6055.2	NO	100.000
13C-2378-TCDD	26.765	1.031	9.86e4	1.28e5	0.872	0.772	0.770	1354	1333	1.45e6	1.83e6	1073.9	NO	21.076
13C-12378-PeCDD	31.884	1.228	1.23e5	8.00e4	0.754	1.540	1.550	1058	872	1.80e6	1.19e6	1700.2	NO	21.873
13C-123478-HxCDD	36.553	0.985	1.08e5	8.78e4	1.106	1.231	1.240	1308	1151	1.64e6	1.29e6	1250.3	NO	19.767
13C-123678-HxCDD	36.674	0.988	1.16e5	9.09e4	1.165	1.280	1.240	1308	1151	1.68e6	1.35e6	1281.9	NO	19.860
13C-1234678-HpCDD	41.442	1.117	8.50e4	7.93e4	0.872	1.071	1.050	1124	1075	1.15e6	1.04e6	1019.3	NO	21.017
13C-OCDD	47.389	1.277	9.39e4	1.06e5	0.655	0.885	0.890	1104	555	9.74e5	1.06e6	882.5	NO	34.047
13C-123789-HxCDD	37.112	0.000	4.98e5	3.98e5	1.000	1.253	1.240	1308	1151	7.35e6	5.98e6	5621.0	NO	100.000
Total-tetrafurans			1.90e2	0.924				653		3.68e3				0.101

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			7.68e1					359		1.27e3				0.076
Total-pentafurans			0.00e0	0.960				591		0.00e0				
Total-hexafurans			0.00e0	1.130				404		0.00e0				
Total-heptafurans			4.11e2	1.281				438		8.88e3				0.307
Total-Furans			6.78e2	1.100				653		1.38e4				0.484
Total-tetradioxins			1.95e2	1.150				457		3.91e3				0.143
Total-pentadioxins			0.00e0	1.017				593		0.00e0				
Total-hexadioxins			0.00e0	0.977				523		0.00e0				
Total-heptadioxins			1.44e3	1.051				378		2.25e4				1.540
Total-Dioxins			3.40e3	1.025				457		5.07e4				5.647
Total-TEQ			4.08e3					457		6.46e4				6.131
37CL-2378-TCDD	26.795	1.032	5.08e5	1.073				1103		7.29e6		6612.6		38.448
FUNCTION1 PFK			4.03e5					179397		8.16e6				
FUNCTION2 PFK			9.06e3					57458		1.73e5				0.000
FUNCTION3 PFK			1.79e5					155900		5.99e6				0.000
FUNCTION4 PFK			0.00e0					129722		0.00e0				
FUNCTION5 PFK			9.74e4					99131		3.37e6				
FUNCTION1 HXCD...			1.82e3					531		2.29e4				0.000
FUNCTION1 HPCD...			2.43e2					255		3.30e3				0.000
FUNCTION2 HPCD...			0.00e0					327		0.00e0				
FUNCTION3 OCDPE			0.00e0					280		0.00e0				
FUNCTION4 NCDPE			0.00e0					316		0.00e0				
FUNCTION5 DCDPE			0.00e0					242		0.00e0				

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	26.39	359.541	0.924	0.101		1.12	0.77	YES	5.6

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	36 Total-penta1	339.8597	27.59	227.056		0.076		0.51	1.55	YES	3.5

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-heptafurans	407.7818	40.44	455.375	1.281	0.199		1.05	1.05	NO	10.3
2	8 1234678-HpCDF	407.7818	39.64	277.508	1.267	0.108	0.079	1.79	1.05	YES	9.9

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	26.39	359.541	0.924	0.101		1.12	0.77	YES	5.6
2	39 Total-heptafurans	407.7818	40.44	455.375	1.281	0.199		1.05	1.05	NO	10.3
3	8 1234678-HpCDF	407.7818	39.64	277.508	1.267	0.108	0.079	1.79	1.05	YES	9.9
4	36 Total-penta1	339.8597	27.59	227.056		0.076		0.51	1.55	YES	3.5

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	23.96	206.889	1.150	0.079		1.02	0.77	YES	3.8
2	41 Total-tetradioxins	319.8965	23.88	166.441	1.150	0.064		1.18	0.77	YES	4.8

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
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ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.46	916.562	1.051	0.531	0.487	1.23	1.05	YES	20.6
2	44 Total-heptadioxins	423.7766	40.19	1743.085	1.051	1.009		1.15	1.05	NO	38.9

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradoxins	319.8965	23.96	206.889	1.150	0.079		1.02	0.77	YES	3.8
2	41 Total-tetradoxins	319.8965	23.88	166.441	1.150	0.064		1.18	0.77	YES	4.8
3	17 OCDD	457.7377	47.40	4081.305	1.030	3.963	3.963	0.76	0.89	NO	95.9
4	16 1234678-HpCDD	423.7766	41.46	916.562	1.051	0.531	0.487	1.23	1.05	YES	20.6
5	44 Total-heptadioxins	423.7766	40.19	1743.085	1.051	1.009		1.15	1.05	NO	38.9

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	26.39	359.541	0.924	0.101		1.12	0.77	YES	5.6
2	39 Total-heptafurans	407.7818	40.44	455.375	1.281	0.199		1.05	1.05	NO	10.3
3	8 1234678-HpCDF	407.7818	39.64	277.508	1.267	0.108	0.079	1.79	1.05	YES	9.9
4	36 Total-penta1	339.8597	27.59	227.056		0.076		0.51	1.55	YES	3.5
5	41 Total-tetradoxins	319.8965	23.96	206.889	1.150	0.079		1.02	0.77	YES	3.8
6	41 Total-tetradoxins	319.8965	23.88	166.441	1.150	0.064		1.18	0.77	YES	4.8
7	17 OCDD	457.7377	47.40	4081.305	1.030	3.963	3.963	0.76	0.89	NO	95.9
8	16 1234678-HpCDD	423.7766	41.46	916.562	1.051	0.531	0.487	1.23	1.05	YES	20.6
9	44 Total-heptadioxins	423.7766	40.19	1743.085	1.051	1.009		1.15	1.05	NO	38.9

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
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ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	21.78	0.000							0.7
2	48 FUNCTION1 PFK	330.9792	21.64	0.000							1.6
3	48 FUNCTION1 PFK	330.9792	24.06	0.000							1.7
4	48 FUNCTION1 PFK	330.9792	23.99	0.000							2.4
5	48 FUNCTION1 PFK	330.9792	23.85	0.000							1.6
6	48 FUNCTION1 PFK	330.9792	23.78	0.000							0.9
7	48 FUNCTION1 PFK	330.9792	23.46	0.000							0.3
8	48 FUNCTION1 PFK	330.9792	23.40	0.000							0.7
9	48 FUNCTION1 PFK	330.9792	23.21	0.000							1.5
10	48 FUNCTION1 PFK	330.9792	23.08	0.000							1.5
11	48 FUNCTION1 PFK	330.9792	22.93	0.000							0.6
12	48 FUNCTION1 PFK	330.9792	22.78	0.000							0.8
13	48 FUNCTION1 PFK	330.9792	22.54	0.000							0.8
14	48 FUNCTION1 PFK	330.9792	22.43	0.000							1.3
15	48 FUNCTION1 PFK	330.9792	22.39	0.000							1.5
16	48 FUNCTION1 PFK	330.9792	22.25	0.000							3.3
17	48 FUNCTION1 PFK	330.9792	22.19	0.000							1.2
18	48 FUNCTION1 PFK	330.9792	22.06	0.000							1.7
19	48 FUNCTION1 PFK	330.9792	28.26	0.000							2.2
20	48 FUNCTION1 PFK	330.9792	27.92	0.000							1.9
21	48 FUNCTION1 PFK	330.9792	26.81	0.000							1.7
22	48 FUNCTION1 PFK	330.9792	26.75	0.000							1.3
23	48 FUNCTION1 PFK	330.9792	26.47	0.000							2.5
24	48 FUNCTION1 PFK	330.9792	26.35	0.000							2.0
25	48 FUNCTION1 PFK	330.9792	26.23	0.000							1.9
26	48 FUNCTION1 PFK	330.9792	26.03	0.000							1.2
27	48 FUNCTION1 PFK	330.9792	25.94	0.000							2.6
28	48 FUNCTION1 PFK	330.9792	25.75	0.000							0.5
29	48 FUNCTION1 PFK	330.9792	25.36	0.000							1.0
30	48 FUNCTION1 PFK	330.9792	24.88	0.000							0.5
31	48 FUNCTION1 PFK	330.9792	24.48	0.000							1.6
32	48 FUNCTION1 PFK	330.9792	24.37	0.000							0.5

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	29.29	0.000		0.000					3.0

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	35.34	0.000		0.000					0.5
2	50 FUNCTION3 PFK	380.9760	35.13	0.000		0.000					1.4
3	50 FUNCTION3 PFK	380.9760	35.08	0.000		0.000					1.3
4	50 FUNCTION3 PFK	380.9760	34.90	0.000		0.000					1.4
5	50 FUNCTION3 PFK	380.9760	34.71	0.000		0.000					2.2
6	50 FUNCTION3 PFK	380.9760	34.65	0.000		0.000					1.5
7	50 FUNCTION3 PFK	380.9760	34.26	0.000		0.000					0.6
8	50 FUNCTION3 PFK	380.9760	33.91	0.000		0.000					1.4
9	50 FUNCTION3 PFK	380.9760	33.76	0.000		0.000					0.9
10	50 FUNCTION3 PFK	380.9760	33.53	0.000		0.000					1.2
11	50 FUNCTION3 PFK	380.9760	33.45	0.000		0.000					1.5
12	50 FUNCTION3 PFK	380.9760	33.39	0.000		0.000					0.9
13	50 FUNCTION3 PFK	380.9760	33.26	0.000		0.000					1.3
14	50 FUNCTION3 PFK	380.9760	33.22	0.000		0.000					1.2
15	50 FUNCTION3 PFK	380.9760	33.17	0.000		0.000					0.5
16	50 FUNCTION3 PFK	380.9760	37.82	0.000		0.000					0.8
17	50 FUNCTION3 PFK	380.9760	37.70	0.000		0.000					1.8
18	50 FUNCTION3 PFK	380.9760	37.34	0.000		0.000					0.7
19	50 FUNCTION3 PFK	380.9760	37.24	0.000		0.000					0.8
20	50 FUNCTION3 PFK	380.9760	36.83	0.000		0.000					1.5
21	50 FUNCTION3 PFK	380.9760	36.62	0.000		0.000					1.0
22	50 FUNCTION3 PFK	380.9760	36.59	0.000		0.000					1.0
23	50 FUNCTION3 PFK	380.9760	36.39	0.000		0.000					1.0
24	50 FUNCTION3 PFK	380.9760	36.33	0.000		0.000					1.4
25	50 FUNCTION3 PFK	380.9760	36.24	0.000		0.000					0.8
26	50 FUNCTION3 PFK	380.9760	35.83	0.000		0.000					1.4
27	50 FUNCTION3 PFK	380.9760	35.78	0.000		0.000					1.4
28	50 FUNCTION3 PFK	380.9760	35.67	0.000		0.000					0.9
29	50 FUNCTION3 PFK	380.9760	35.57	0.000		0.000					0.6
30	50 FUNCTION3 PFK	380.9760	35.45	0.000		0.000					0.5
31	50 FUNCTION3 PFK	380.9760	35.38	0.000		0.000					0.6
32	50 FUNCTION3 PFK	380.9760	38.46	0.000		0.000					1.5
33	50 FUNCTION3 PFK	380.9760	38.33	0.000		0.000					1.3
34	50 FUNCTION3 PFK	380.9760	38.07	0.000		0.000					0.5
35	50 FUNCTION3 PFK	380.9760	37.97	0.000		0.000					1.1

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	45.45	0.000							0.7
2	52 FUNCTION5 PFK	480.9696	45.36	0.000							1.6
3	52 FUNCTION5 PFK	480.9696	45.25	0.000							1.4
4	52 FUNCTION5 PFK	480.9696	45.14	0.000							0.3
5	52 FUNCTION5 PFK	480.9696	45.05	0.000							1.1
6	52 FUNCTION5 PFK	480.9696	45.02	0.000							1.1
7	52 FUNCTION5 PFK	480.9696	44.90	0.000							2.0
8	52 FUNCTION5 PFK	480.9696	44.81	0.000							1.0
9	52 FUNCTION5 PFK	480.9696	44.70	0.000							1.8
10	52 FUNCTION5 PFK	480.9696	44.63	0.000							1.4
11	52 FUNCTION5 PFK	480.9696	49.09	0.000							1.4
12	52 FUNCTION5 PFK	480.9696	48.86	0.000							1.3
13	52 FUNCTION5 PFK	480.9696	48.56	0.000							0.5
14	52 FUNCTION5 PFK	480.9696	48.38	0.000							1.2
15	52 FUNCTION5 PFK	480.9696	47.88	0.000							1.9
16	52 FUNCTION5 PFK	480.9696	47.35	0.000							1.7
17	52 FUNCTION5 PFK	480.9696	47.32	0.000							1.6
18	52 FUNCTION5 PFK	480.9696	47.25	0.000							2.1
19	52 FUNCTION5 PFK	480.9696	47.08	0.000							1.3
20	52 FUNCTION5 PFK	480.9696	46.78	0.000							0.8
21	52 FUNCTION5 PFK	480.9696	46.57	0.000							1.0
22	52 FUNCTION5 PFK	480.9696	46.47	0.000							1.3
23	52 FUNCTION5 PFK	480.9696	46.29	0.000							1.3
24	52 FUNCTION5 PFK	480.9696	46.12	0.000							1.0
25	52 FUNCTION5 PFK	480.9696	46.09	0.000							1.3
26	52 FUNCTION5 PFK	480.9696	45.96	0.000							0.8
27	52 FUNCTION5 PFK	480.9696	49.28	0.000							1.2

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	26.21	0.000		0.000					34.3
2	53 FUNCTION1 HXCD...	375.8364	25.93	0.000		0.000					8.8

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	22.45	0.000		0.000					12.9

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

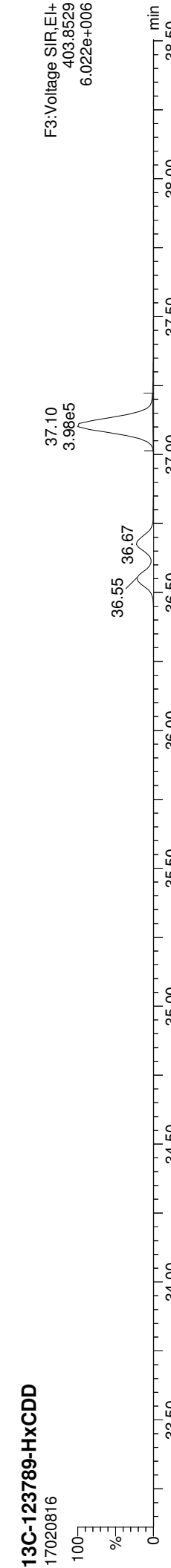
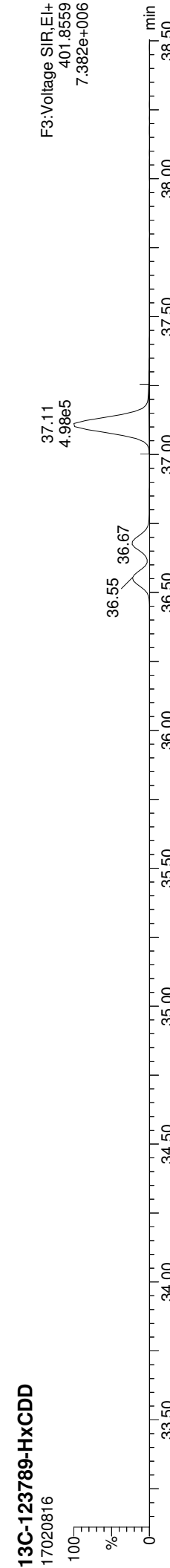
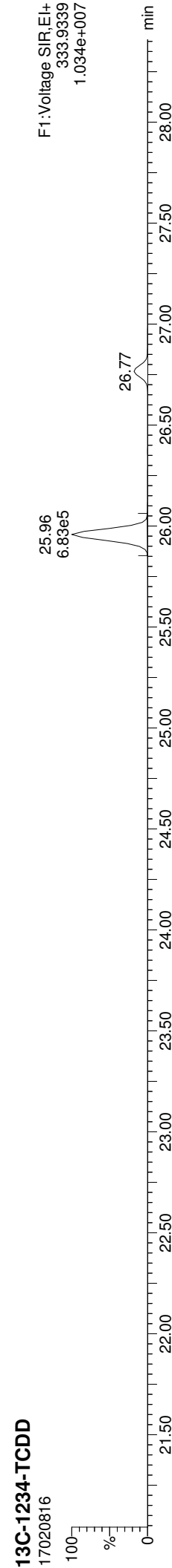
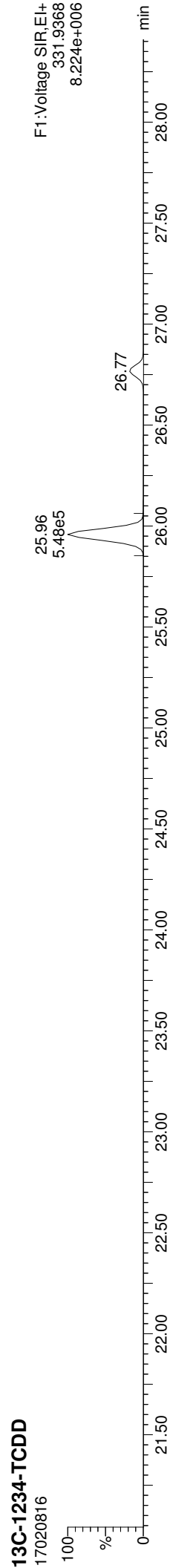
ETHERS6

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

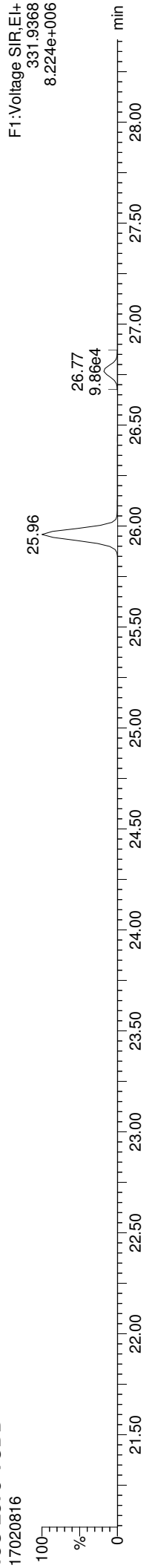


Quantify Sample Report

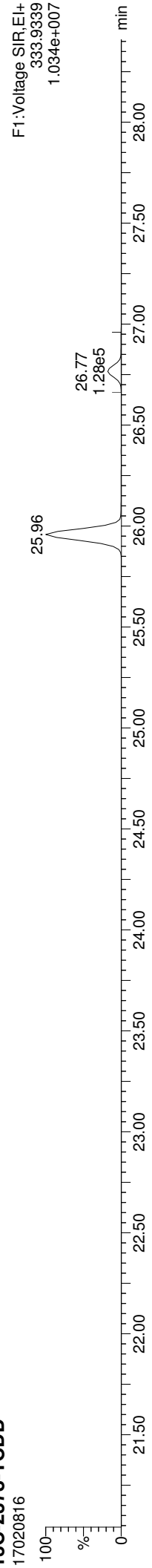
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

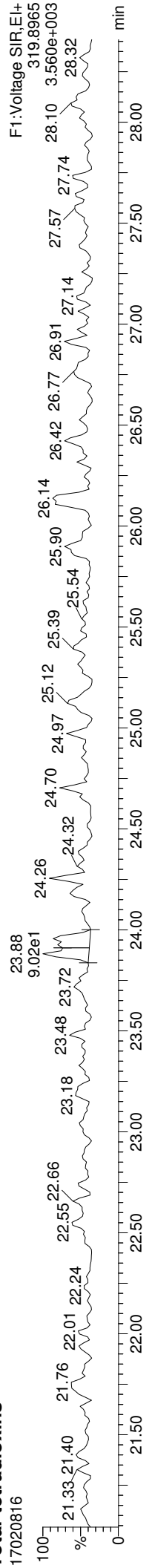
13C-2378-TCDD



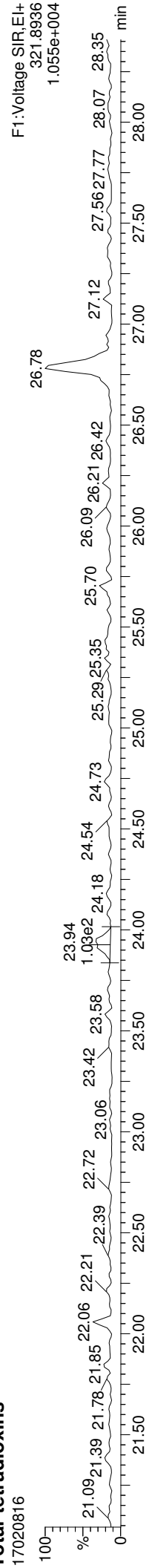
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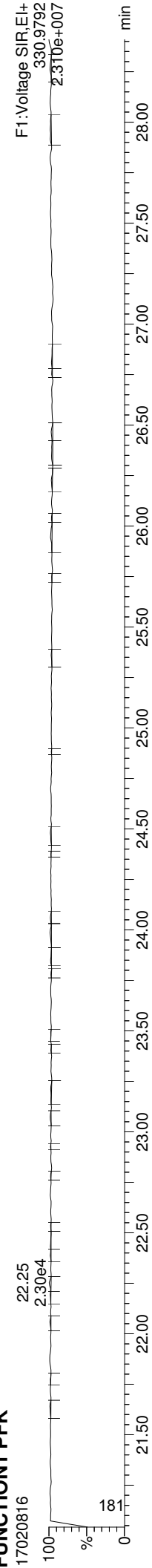
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

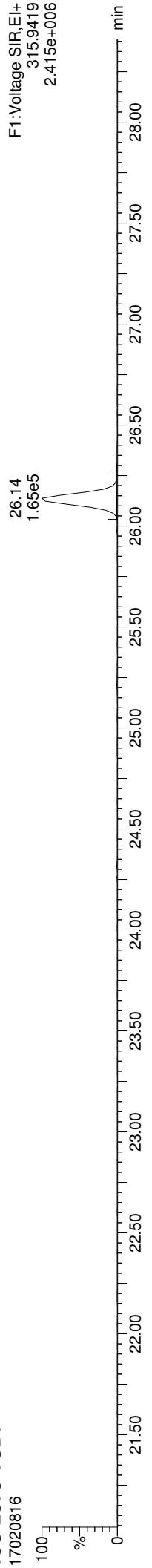


Quantify Sample Report

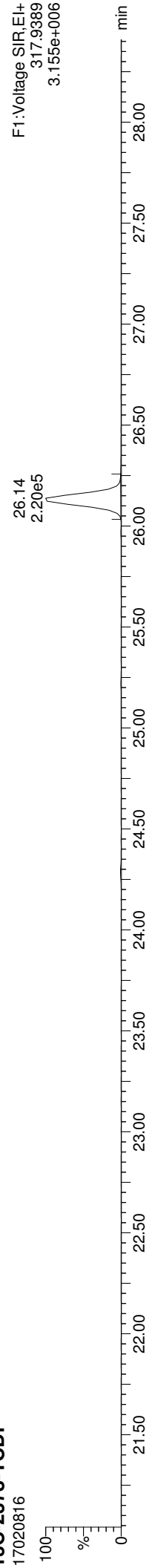
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

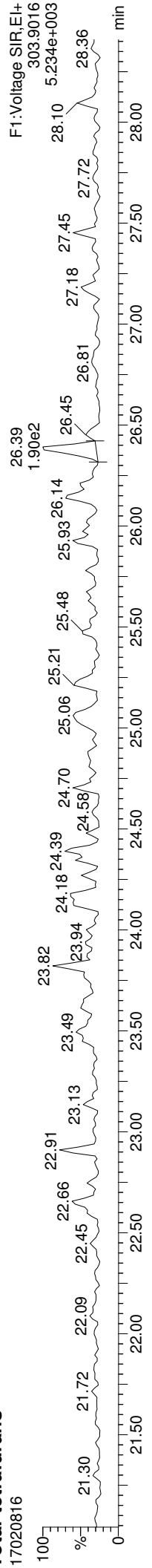
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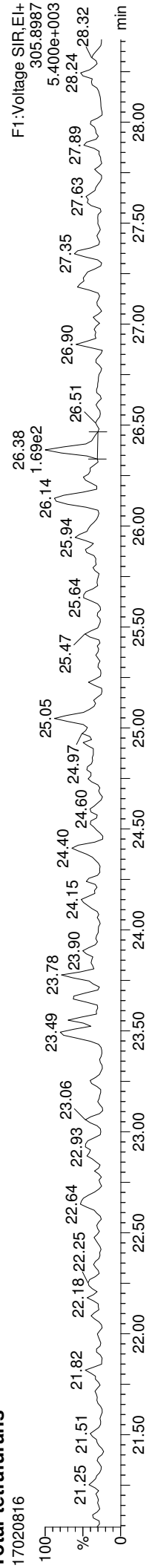
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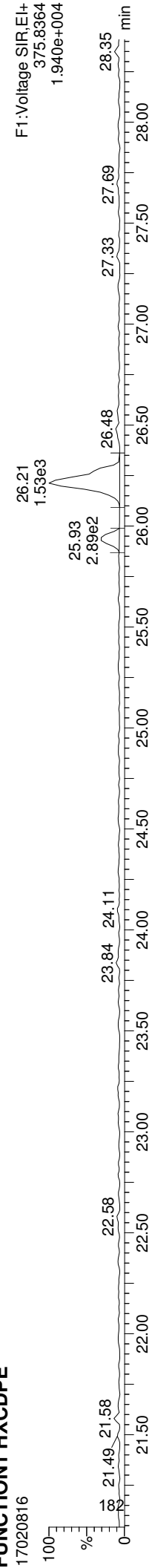
Total-tetrafurans



Total-tetrafurans

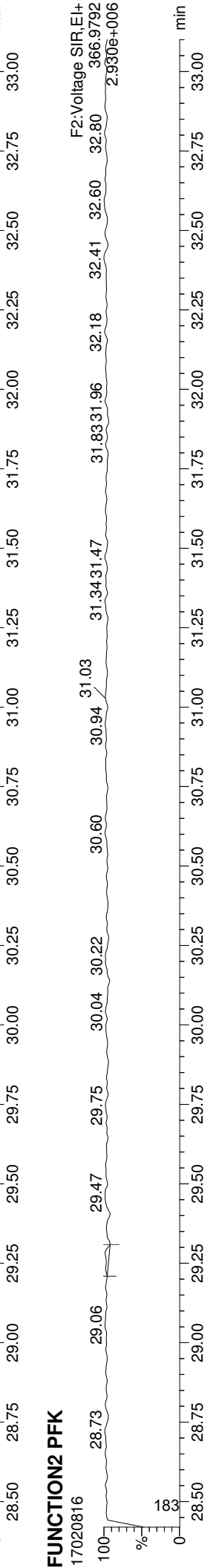
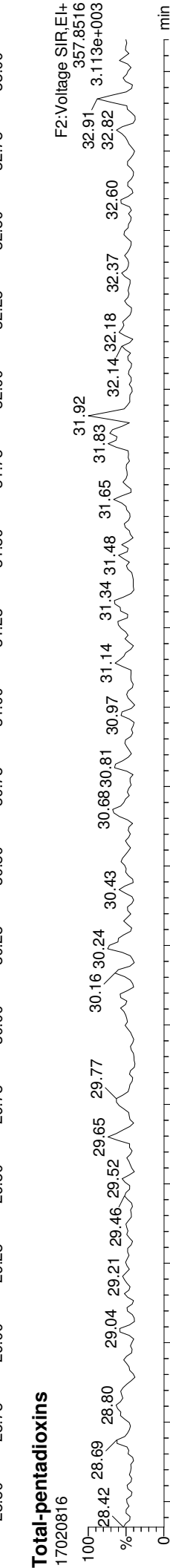
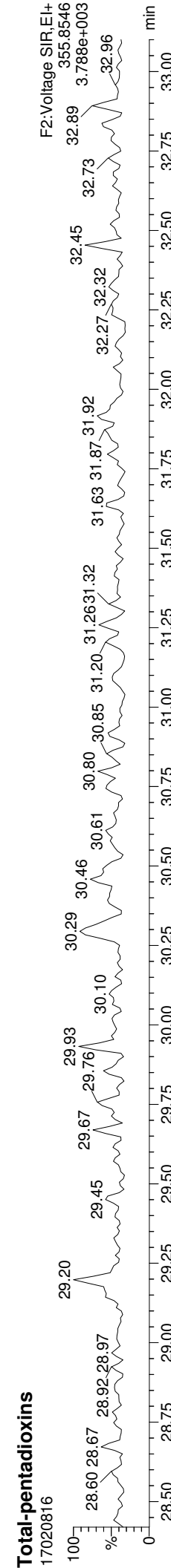
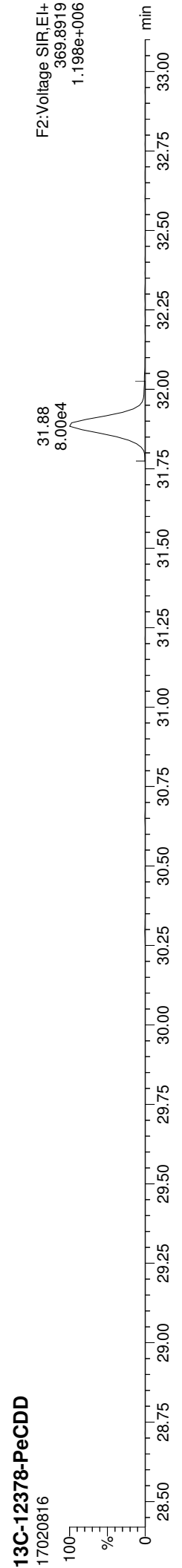
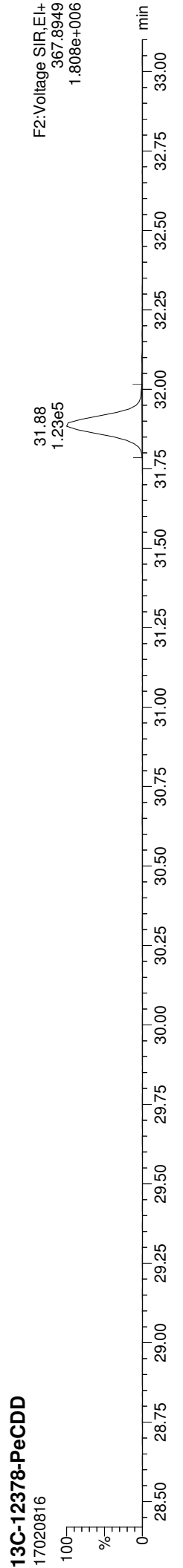


FUNCTION1 HXCDFE



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

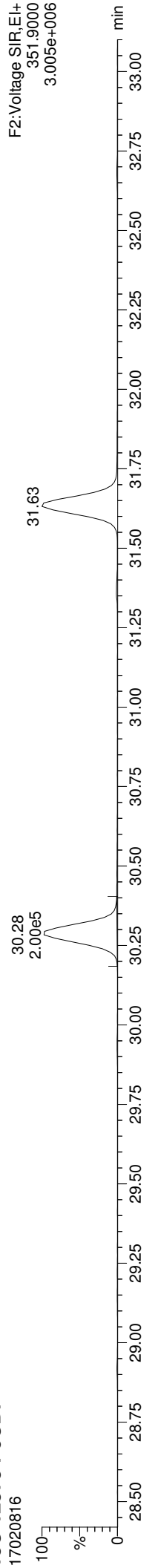
ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK



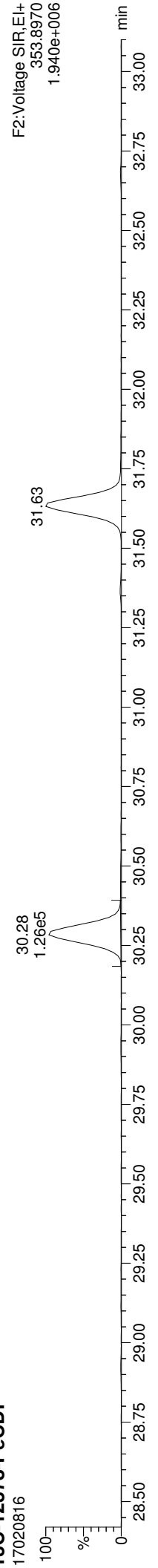
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

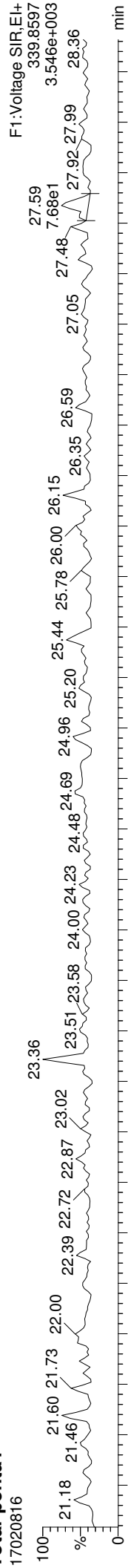
13C-12378-PeCDF



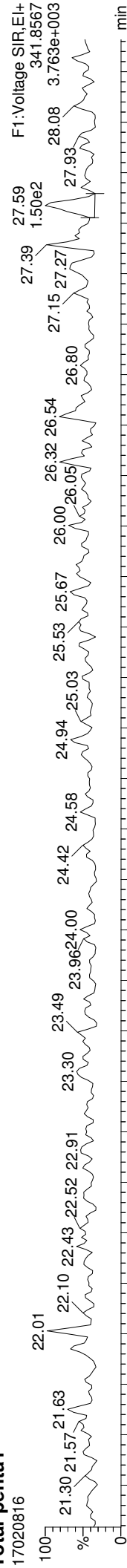
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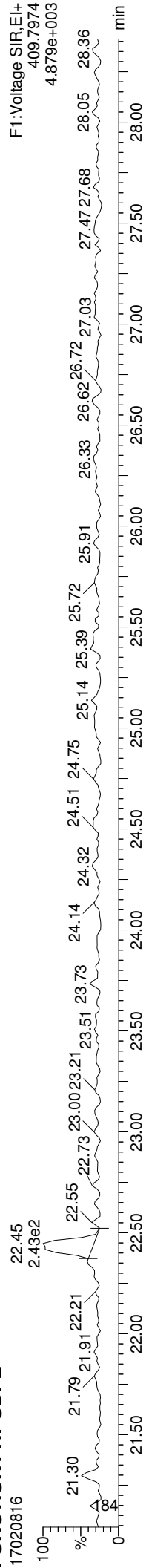
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

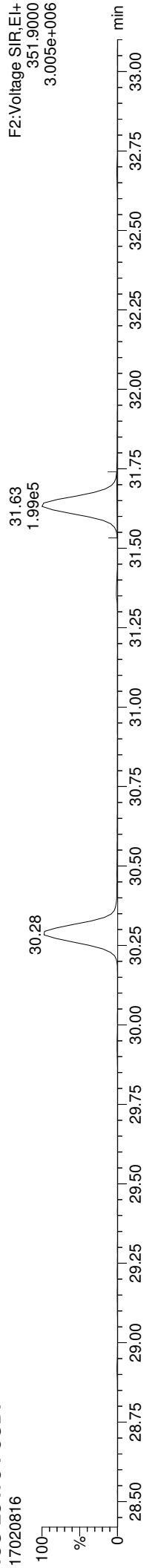


Quantify Sample Report
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Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

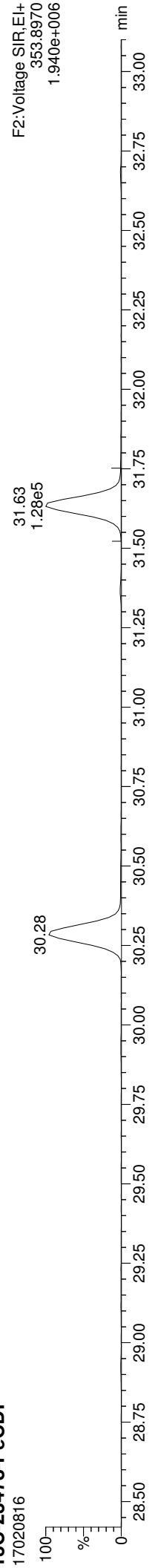
MassLynx MassLynx V4.1 SCN909

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

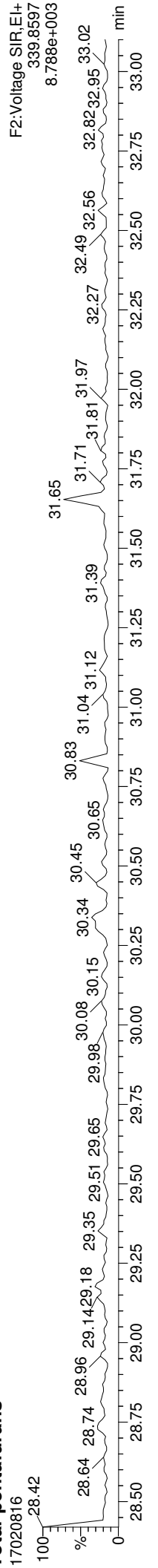
13C-23478-PeCDF



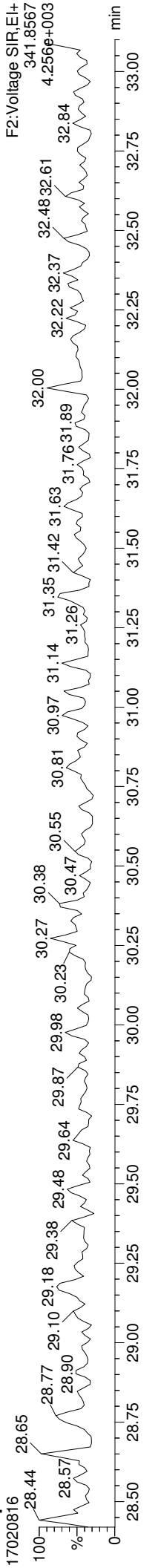
13C-23478-PeCDF



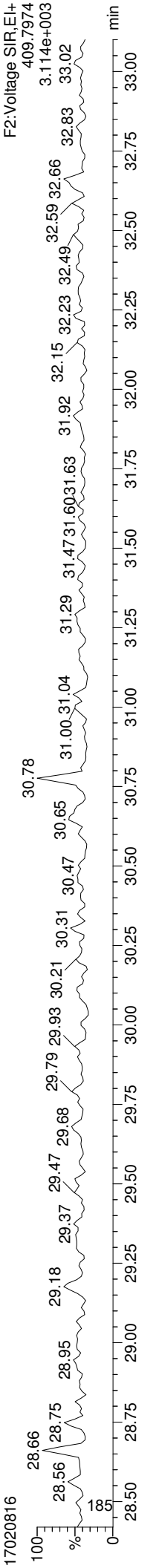
Total-pentafurans



Total-pentafurans



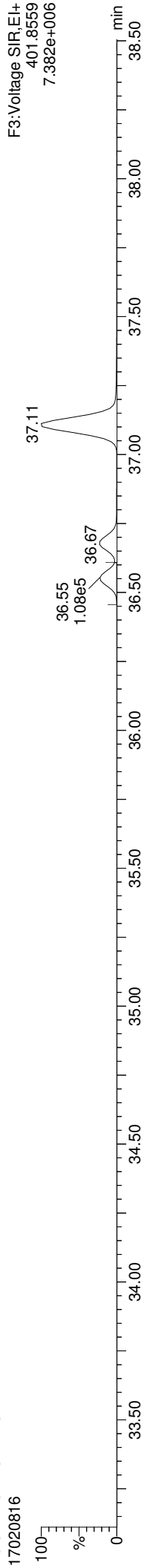
FUNCTION2 HPCDPE



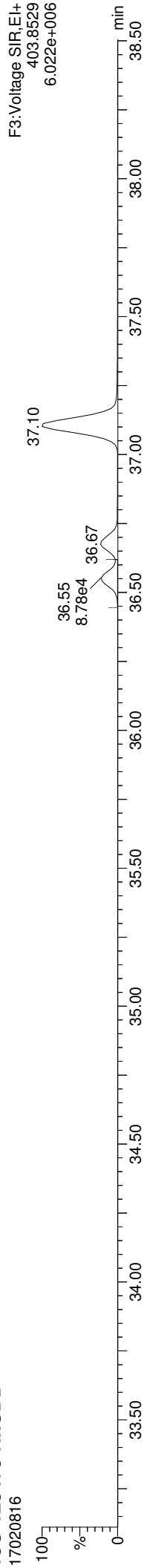
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

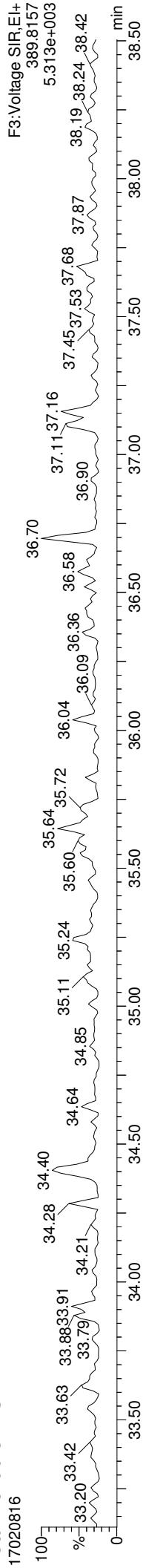
13C-123478-HxCDD



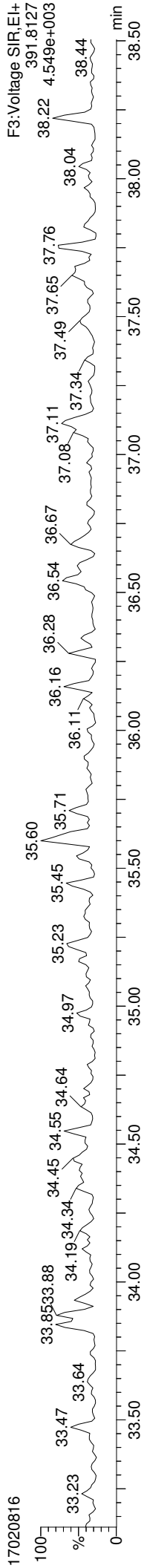
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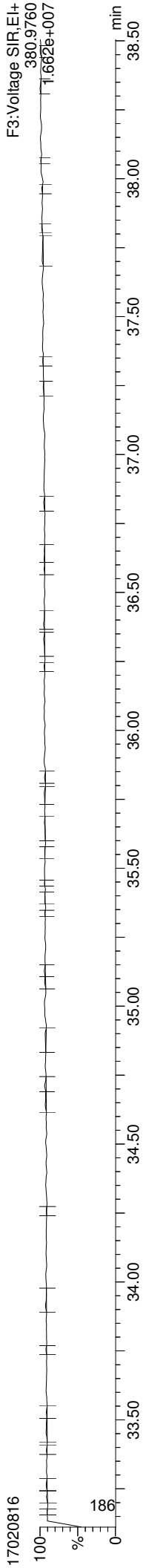
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

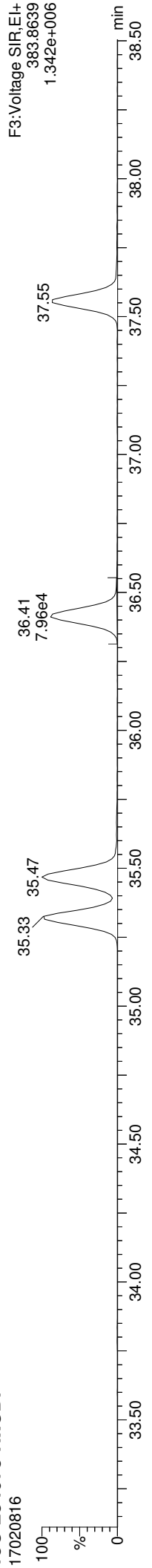


Quantify Sample Report

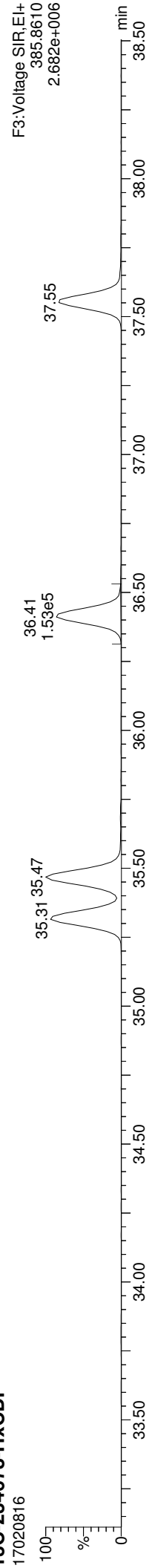
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\ld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

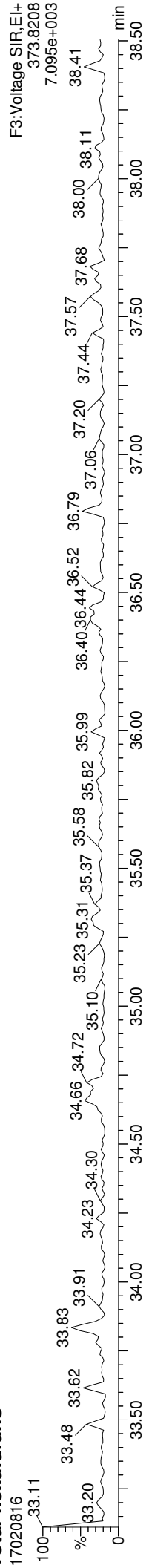
13C-234678-HxCDF



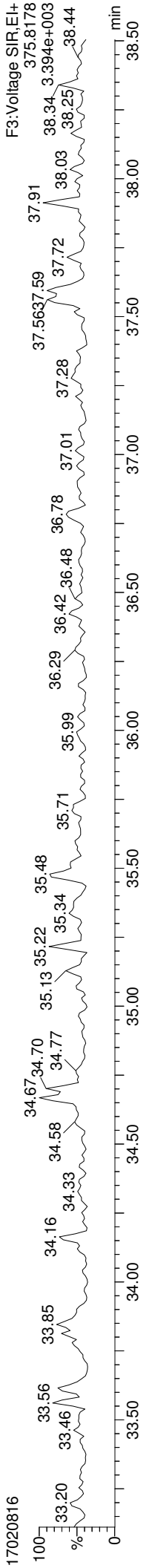
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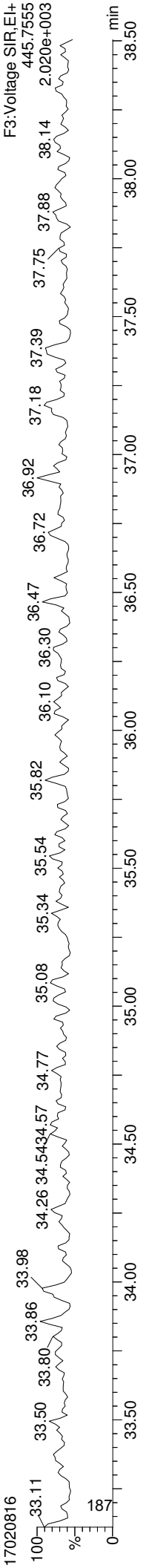
Total-hexafurans



Total-hexafurans

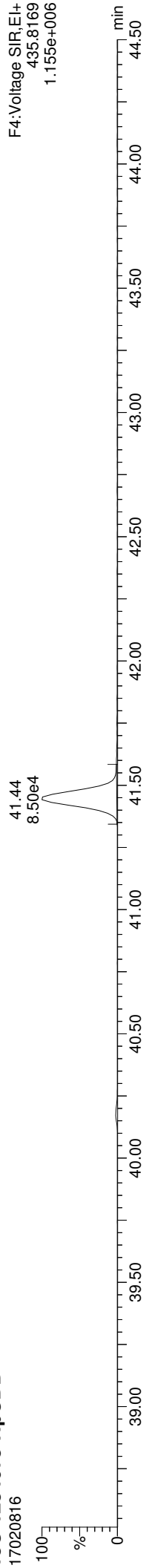


FUNCTION3 OCDPE

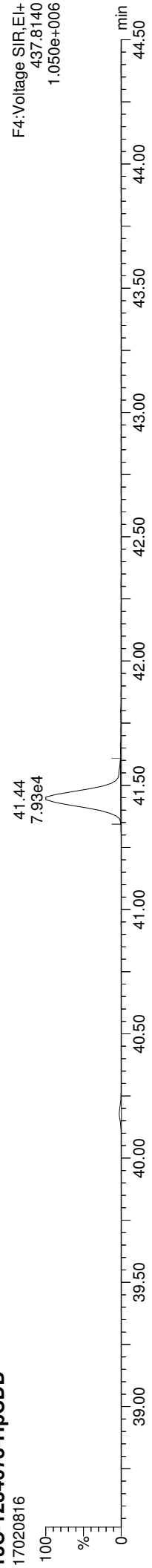


ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

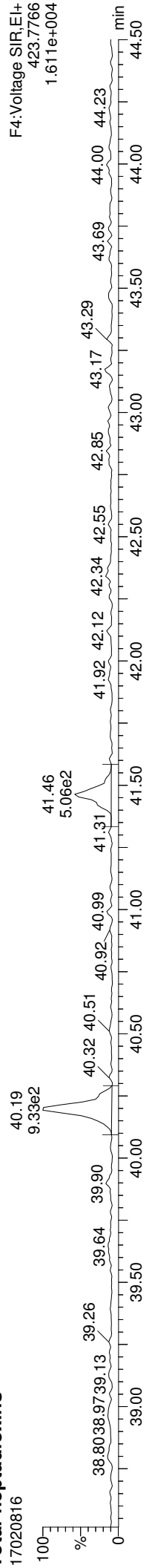
13C-1234678-HpCDD



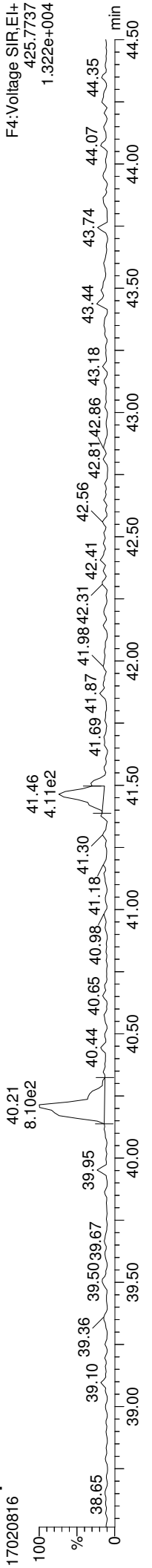
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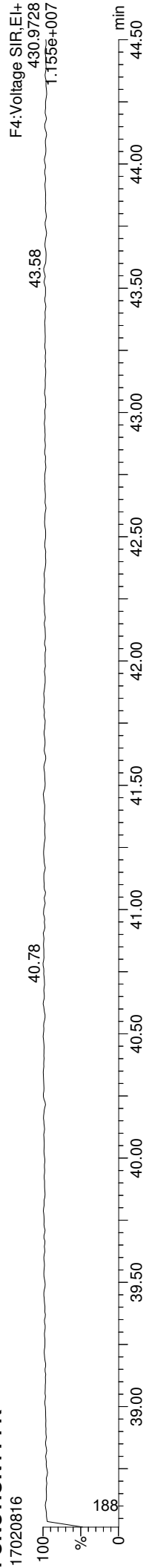
Total-heptadioxins



Total-heptadioxins



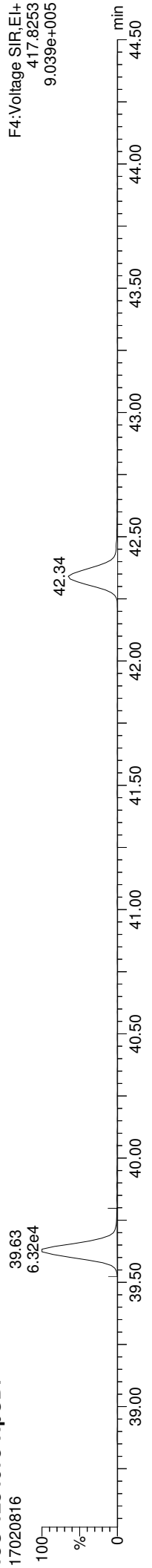
FUNCTION4 PFK



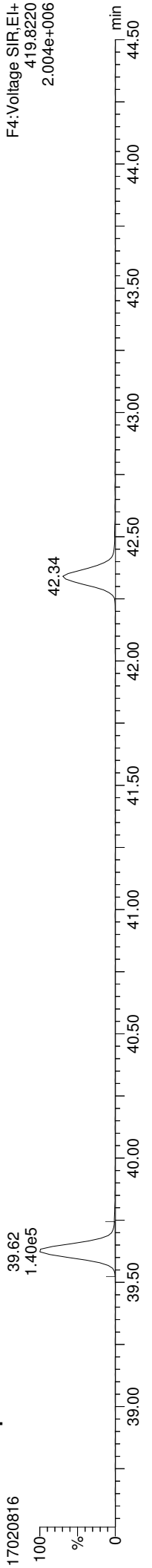
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Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

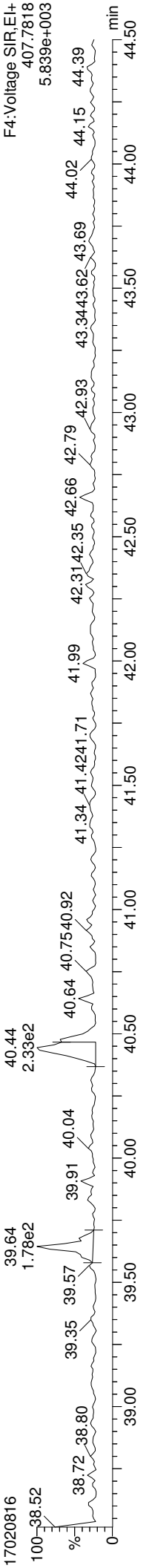
13C-1234678-HpCDF



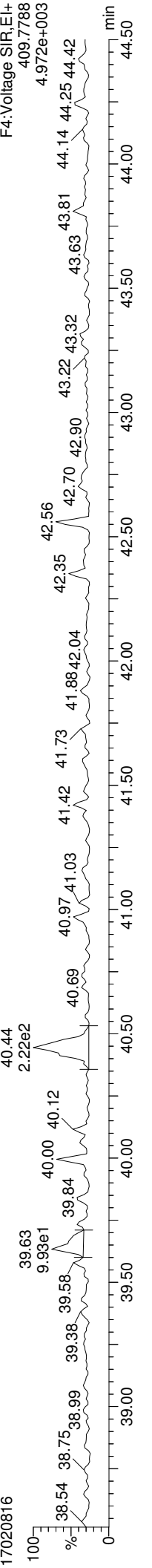
13C-1234678-HpCDF



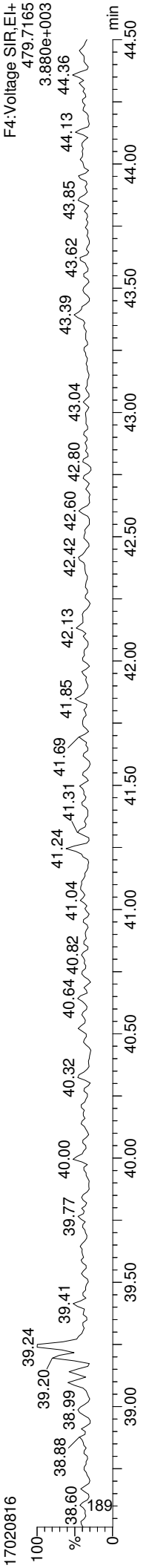
Total-heptafurans



Total-heptafurans

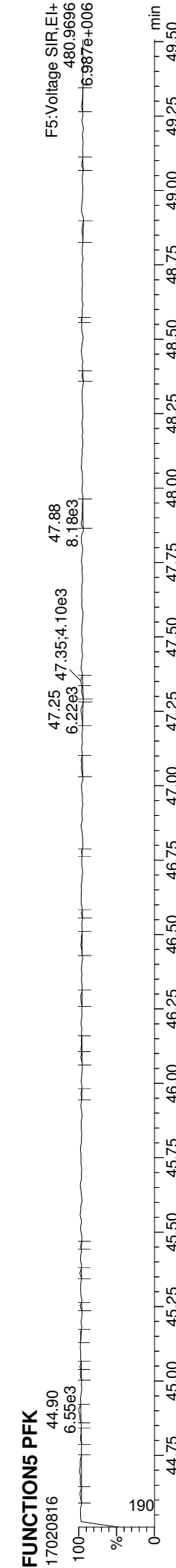
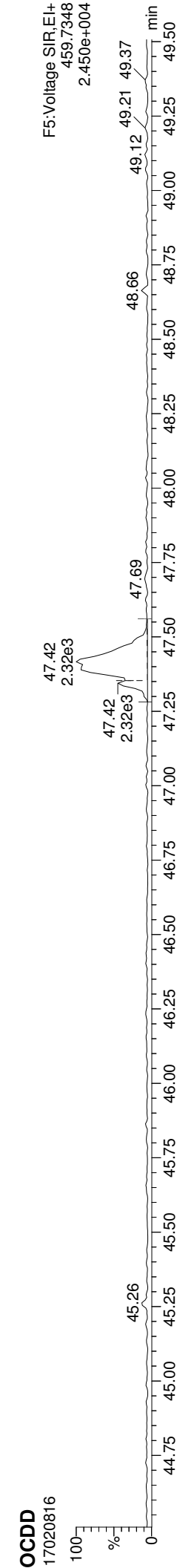
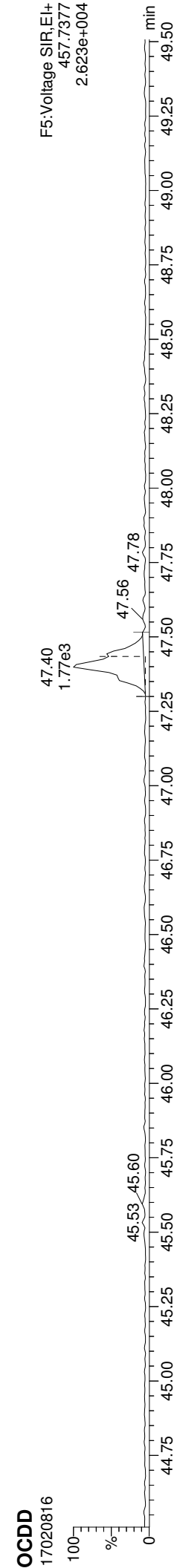
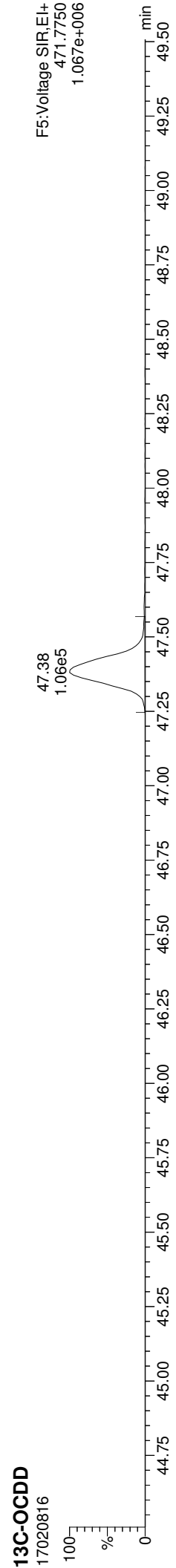
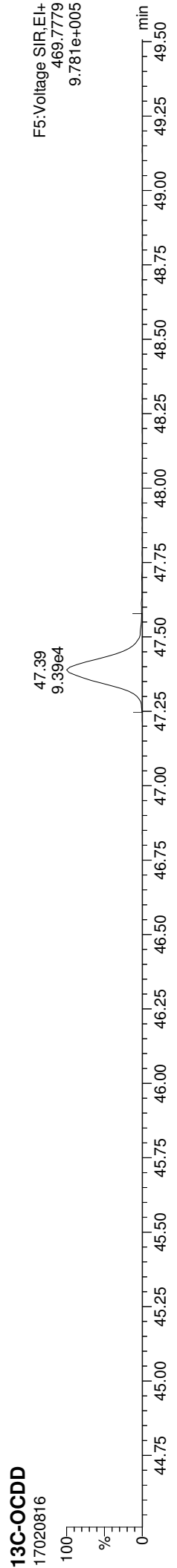


FUNCTION4 NCDPE



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

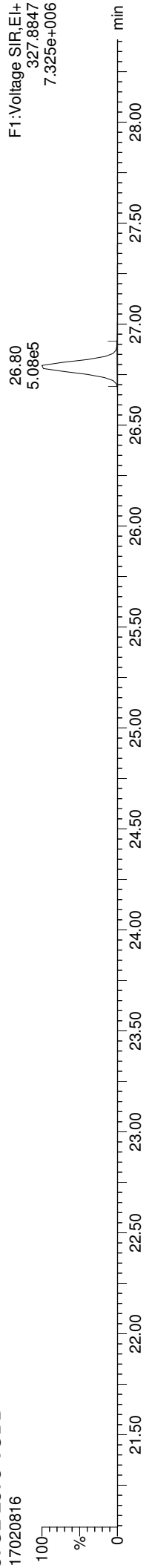


Quantify Sample Report

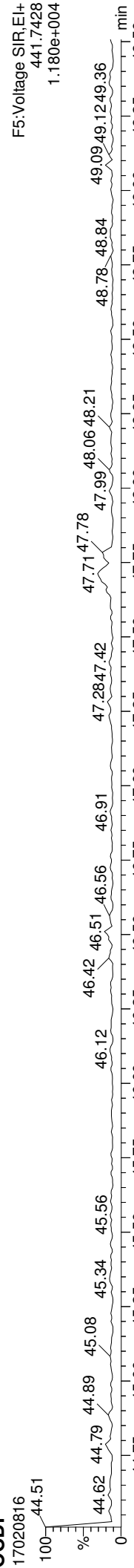
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:38 Pacific Standard Time

ID: 17A0053-10, Name: 17020816, Date: 09-Feb-2017, Time: 00:01:14, Conditions: AUTOSPEC01, User: PK

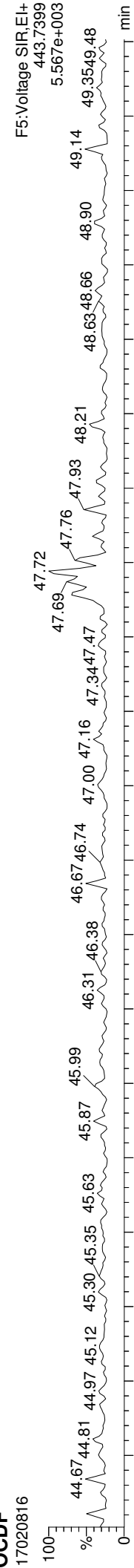
37CL-2378-TCDD



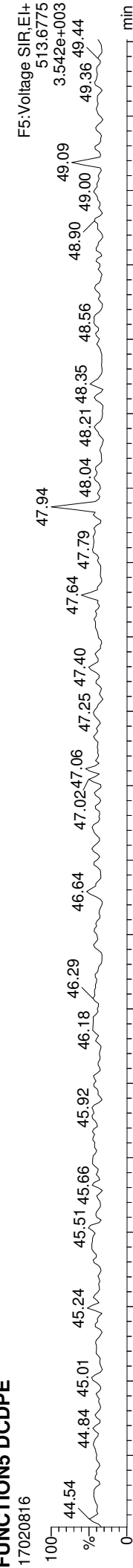
OCDF



OCDF



FUNCTION5 DCDPE





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, Inc. SDG: 17A0053
 Client: Anchor QEA, LLC Project: Port Gamble Shellfish Monitoring
 Matrix: Tissue Laboratory ID: 17A0053-11RE1 File ID: 17022414
 Sampled: 01/05/17 14:35 Prepared: 02/22/17 12:00 Analyzed: 02/25/17 00:45
 Solids Wt%: Preparation: EPA 1613 Initial/Final: 10.08 g / 20 uL
 Result Basis: Dry Sequence: SFB0342 Calibration: AA00071
 Batch: BFB0538 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.137	0.992	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.135	0.992	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.164	4.96	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.160	4.96	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.844	1.318-1.783		4.96	0.090	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.097	4.96	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.096	4.96	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.097	4.96	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	2.097	1.054-1.426		4.96	0.172	ng/kg	EMPC, J, B
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.169	4.96	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.166	4.96	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.175	4.96	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.958	0.893-1.208		4.96	0.367	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.660	0.893-1.208		4.96	0.195	ng/kg	EMPC, J, B
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.479	0.893-1.208		4.96	1.31	ng/kg	EMPC, J, B
39001-02-0	OCDF	1	0.640	0.757-1.024		9.92	0.875	ng/kg	EMPC, J, B
3268-87-9	OCDD	1	0.882	0.757-1.024		9.92	8.51	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.992	0.567	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.992	0.332	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.992	ND	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.992	0.239	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.992	0.172	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.992	0.540	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.992	0.877	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.992	3.47	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.129
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.129



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-11RE1</u>
Sampled:	<u>01/05/17 14:35</u>	Prepared:	<u>02/22/17 12:00</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFB0342</u>
Batch:	<u>BFB0538</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17022414</u>
		Analyzed:	<u>02/25/17 00:45</u>
		Initial/Final:	<u>10.08 g / 20 uL</u>
		Calibration:	<u>AA00071</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.783	0.655-0.886		37.8	24 - 169 %	
13C12-2,3,7,8-TCDD		0.777	0.655-0.886		38.9	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.557	1.318-1.783		35.9	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.590	1.318-1.783		35.4	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.607	1.318-1.783		36.3	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.526	0.434-0.587		33.7	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.521	0.434-0.587		33.6	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.524	0.434-0.587		35.1	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.515	0.434-0.587		38.0	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.302	1.054-1.426		35.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.297	1.054-1.426		36.9	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.455	0.374-0.506		33.9	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.437	0.374-0.506		39.5	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.078	0.893-1.208		36.3	23 - 140 %	
13C12-OCDD		0.897	0.757-1.024		31.1	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000			95.4	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF					0.924		0.770	846	2015					
12378-PeCDF					0.954		1.550	1208	1619					
23478-PeCDF					0.966		1.550	1208	1619					
123478-HxCDF					1.141		1.240	678	821					
234678-HxCDF					1.181		1.240	678	821					
123678-HxCDF					1.089		1.240	678	821					
123789-HxCDF	36.922	1.001	3.15e2	1.50e2	1.110	2.097	1.240	678	821	7.41e3	3.05e3	10.9	YES	0.087
1234678-HpCDF	38.983	1.001	5.15e2	5.38e2	1.267	0.958	1.050	392	489	9.15e3	9.00e3	23.4	NO	0.185
1234789-HpCDF	41.592	1.000	1.73e2	2.62e2	1.295	0.660	1.050	392	489	2.84e3	4.73e3	7.3	YES	0.098
OCDF	46.706	1.007	4.29e2	6.70e2	1.067	0.640	0.890	487	701	7.58e3	7.25e3	15.6	YES	0.441
2378-TCDD					1.150		0.770	1417	708					
12378-PeCDD	31.255	1.000	9.54e1	1.13e2	1.017	0.844	1.550	755	777	3.10e3	3.02e3	4.1	YES	0.045
123478-HxCDD					1.017		1.240	947	940					
123678-HxCDD					0.964		1.240	947	940					
123789-HxCDD					0.948		1.240	947	940					
1234678-HpCDD	40.715	1.000	1.50e3	1.02e3	1.051	1.479	1.050	777	626	1.58e4	1.16e4	20.3	YES	0.662
OCDD	46.418	1.000	4.83e3	5.48e3	1.030	0.882	0.890	432	1184	5.12e4	5.37e4	118.7	NO	4.287
13C-2378-TCDF	25.525	1.007	4.13e5	5.28e5	1.515	0.783	0.770	6867	4357	5.89e6	7.49e6	857.7	NO	37.760
13C-12378-PeCDF	29.644	1.170	4.60e5	2.95e5	1.276	1.557	1.550	2018	2650	6.56e6	4.23e6	3253.1	NO	35.948
13C-23478-PeCDF	30.992	1.223	4.49e5	2.82e5	1.257	1.590	1.550	2018	2650	6.69e6	4.19e6	3317.0	NO	35.356
13C-123478-HxCDF	34.664	0.951	1.90e5	3.61e5	1.431	0.526	0.510	3294	3847	2.78e6	5.37e6	844.7	NO	33.686
13C-123678-HxCDF	34.807	0.955	2.04e5	3.92e5	1.552	0.521	0.510	3294	3847	2.91e6	5.57e6	883.5	NO	33.608
13C-234678-HxCDF	35.761	0.981	1.86e5	3.55e5	1.349	0.524	0.510	3294	3847	2.69e6	5.07e6	816.0	NO	35.066
13C-123789-HxCDF	36.900	1.012	1.64e5	3.19e5	1.111	0.515	0.510	3294	3847	2.35e6	4.48e6	712.5	NO	38.023
13C-1234678-HpCDF	38.961	1.069	1.41e5	3.09e5	1.160	0.455	0.440	1853	1827	2.03e6	4.52e6	1096.2	NO	33.887
13C-1234789-HpCDF	41.570	1.140	1.04e5	2.38e5	0.758	0.437	0.440	1853	1827	1.32e6	3.06e6	711.3	NO	39.457
13C-1234-TCDD	25.346	0.000	7.28e5	9.17e5	1.000	0.794	0.770	3249	1563	1.09e7	1.38e7	3354.2	NO	100.000
13C-2378-TCDD	26.153	1.032	2.44e5	3.14e5	0.872	0.777	0.770	3249	1563	3.57e6	4.57e6	1099.5	NO	38.872
13C-12378-PeCDD	31.244	1.233	2.78e5	1.73e5	0.754	1.607	1.550	2246	1400	4.06e6	2.52e6	1808.2	NO	36.330
13C-123478-HxCDD	35.903	0.985	2.55e5	1.96e5	1.106	1.302	1.240	2479	4087	3.70e6	2.81e6	1492.8	NO	35.590
13C-123678-HxCDD	36.023	0.988	2.77e5	2.14e5	1.165	1.297	1.240	2479	4087	3.96e6	3.15e6	1595.5	NO	36.886
13C-1234678-HpCDD	40.715	1.117	1.88e5	1.74e5	0.872	1.078	1.050	1903	2125	2.47e6	2.33e6	1296.1	NO	36.274
13C-OCDD	46.401	1.273	2.21e5	2.46e5	0.655	0.897	0.890	1703	1696	2.31e6	2.62e6	1354.5	NO	62.276
13C-123789-HxCDD	36.451	0.000	6.32e5	5.12e5	1.000	1.233	1.240	2479	4087	9.01e6	7.33e6	3636.4	NO	100.000
Total-tetrafurans			8.59e2		0.924			846		1.19e4				0.286

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170224D.d
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			0.00e0					786		0.00e0				
Total-pentafurans			0.00e0		0.960			1208		0.00e0				0.087
Total-hexafurans			3.15e2		1.130			678		7.41e3				0.442
Total-heptafurans			9.91e2		1.281			392		1.98e4				1.256
Total-Furans			2.59e3		1.100			846		4.67e4				0.167
Total-tetradioxins			4.78e2		1.150			1417		8.29e3				0.120
Total-pentadioxins			2.83e2		1.017			755		8.98e3				0.272
Total-hexadioxins			6.05e2		0.977			947		1.43e4				1.748
Total-heptadioxins			3.62e3		1.051			777		5.20e4				6.595
Total-Dioxins			9.81e3		1.025			1417		1.35e5				7.851
Total-TEQ			1.24e4					1417		1.81e5				38.157
37CL-2378-TCDD	26.168	1.032	6.74e5		1.073			1611		9.59e6		5950.0		
FUNCTION1 PFK			0.00e0					704856		0.00e0				0.000
FUNCTION2 PFK			1.12e5					168673		3.25e6				0.000
FUNCTION3 PFK			1.56e5					495313		6.06e6				
FUNCTION4 PFK			4.08e5					346517		1.24e7				
FUNCTION5 PFK			3.91e5					284907		1.32e7				
FUNCTION1 HXCD...			4.14e3					641		5.48e4				0.000
FUNCTION1 HPCD...			1.86e3					1063		2.69e4				0.000
FUNCTION2 HPCD...			2.12e2					1089		6.86e3				0.000
FUNCTION3 OCDPE			2.85e2					577		1.11e4				0.000
FUNCTION4 NCDPE			7.44e2					818		2.00e4				0.000
FUNCTION5 DCDPE			7.18e1					269		3.26e3				0.000

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	22.91	961.703	0.924	0.111		0.67	0.77	NO	5.9
2	35 Total-tetrafurans	303.9016	25.78	605.893	0.924	0.070		0.53	0.77	YES	3.5
3	35 Total-tetrafurans	303.9016	24.46	919.350	0.924	0.106		0.40	0.77	YES	4.7

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7 123789-HxCDF	373.8208	36.92	464.755	1.110	0.087	0.063	2.10	1.24	YES	10.9

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-heptafurans	407.7818	39.75	807.651	1.281	0.159		0.60	1.05	YES	19.9
2	8 1234678-HpCDF	407.7818	38.98	1052.203	1.267	0.185	0.185	0.96	1.05	NO	23.4
3	9 1234789-HpCDF	407.7818	41.59	434.969	1.295	0.098	0.076	0.66	1.05	YES	7.3

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	22.91	961.703	0.924	0.111		0.67	0.77	NO	5.9
2	35 Total-tetrafurans	303.9016	25.78	605.893	0.924	0.070		0.53	0.77	YES	3.5
3	35 Total-tetrafurans	303.9016	24.46	919.350	0.924	0.106		0.40	0.77	YES	4.7
4	7 123789-HxCDF	373.8208	36.92	464.755	1.110	0.087	0.063	2.10	1.24	YES	10.9
5	39 Total-heptafurans	407.7818	39.75	807.651	1.281	0.159		0.60	1.05	YES	19.9
6	8 1234678-HpCDF	407.7818	38.98	1052.203	1.267	0.185	0.185	0.96	1.05	NO	23.4
7	10 OCDF	441.7428	46.71	1098.797	1.067	0.441	0.366	0.64	0.89	YES	15.6
8	9 1234789-HpCDF	407.7818	41.59	434.969	1.295	0.098	0.076	0.66	1.05	YES	7.3

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	23.34	1072.093	1.150	0.167		0.81	0.77	NO	5.9

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	42 Total-pentadioxins	355.8546	28.60	152.014	1.017	0.033		0.99	1.55	YES	4.0
2	42 Total-pentadioxins	355.8546	31.30	191.543	1.017	0.042		1.40	1.55	NO	3.8
3	12 12378-PeCDD	355.8546	31.26	208.402	1.017	0.045	0.034	0.84	1.55	YES	4.1

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	43 Total-hexadioxins	389.8157	33.79	310.345	0.977	0.067		0.86	1.24	YES	5.5
2	43 Total-hexadioxins	389.8157	33.75	489.633	0.977	0.106		1.30	1.24	NO	6.0
3	43 Total-hexadioxins	389.8157	34.97	452.419	0.977	0.098		0.69	1.24	YES	3.5

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	40.71	2518.572	1.051	0.662	0.548	1.48	1.05	YES	20.3
2	44 Total-heptadioxins	423.7766	39.52	4129.929	1.051	1.086		1.05	1.05	NO	46.6

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradioxins	319.8965	23.34	1072.093	1.150	0.167		0.81	0.77	NO	5.9
2	42 Total-pentadioxins	355.8546	28.60	152.014	1.017	0.033		0.99	1.55	YES	4.0
3	43 Total-hexadioxins	389.8157	33.79	310.345	0.977	0.067		0.86	1.24	YES	5.5
4	43 Total-hexadioxins	389.8157	33.75	489.633	0.977	0.106		1.30	1.24	NO	6.0
5	42 Total-pentadioxins	355.8546	31.30	191.543	1.017	0.042		1.40	1.55	NO	3.8
6	12 12378-PeCDD	355.8546	31.26	208.402	1.017	0.045	0.034	0.84	1.55	YES	4.1
7	43 Total-hexadioxins	389.8157	34.97	452.419	0.977	0.098		0.69	1.24	YES	3.5
8	16 1234678-HpCDD	423.7766	40.71	2518.572	1.051	0.662	0.548	1.48	1.05	YES	20.3
9	44 Total-heptadioxins	423.7766	39.52	4129.929	1.051	1.086		1.05	1.05	NO	46.6
10	17 OCDD	457.7377	46.42	10307.618	1.030	4.287	4.287	0.88	0.89	NO	118.7

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	22.91	961.703	0.924	0.111		0.67	0.77	NO	5.9
2	35 Total-tetrafurans	303.9016	25.78	605.893	0.924	0.070		0.53	0.77	YES	3.5
3	35 Total-tetrafurans	303.9016	24.46	919.350	0.924	0.106		0.40	0.77	YES	4.7
4	7 123789-HxCDF	373.8208	36.92	464.755	1.110	0.087	0.063	2.10	1.24	YES	10.9
5	39 Total-heptafurans	407.7818	39.75	807.651	1.281	0.159		0.60	1.05	YES	19.9
6	8 1234678-HpCDF	407.7818	38.98	1052.203	1.267	0.185	0.185	0.96	1.05	NO	23.4
7	10 OCDF	441.7428	46.71	1098.797	1.067	0.441	0.366	0.64	0.89	YES	15.6
8	9 1234789-HpCDF	407.7818	41.59	434.969	1.295	0.098	0.076	0.66	1.05	YES	7.3
9	41 Total-tetradioxins	319.8965	23.34	1072.093	1.150	0.167		0.81	0.77	NO	5.9
10	42 Total-pentadioxins	355.8546	28.60	152.014	1.017	0.033		0.99	1.55	YES	4.0
11	43 Total-hexadioxins	389.8157	33.79	310.345	0.977	0.067		0.86	1.24	YES	5.5
12	43 Total-hexadioxins	389.8157	33.75	489.633	0.977	0.106		1.30	1.24	NO	6.0
13	42 Total-pentadioxins	355.8546	31.30	191.543	1.017	0.042		1.40	1.55	NO	3.8
14	12 12378-PeCDD	355.8546	31.26	208.402	1.017	0.045	0.034	0.84	1.55	YES	4.1
15	43 Total-hexadioxins	389.8157	34.97	452.419	0.977	0.098		0.69	1.24	YES	3.5
16	16 1234678-HpCDD	423.7766	40.71	2518.572	1.051	0.662	0.548	1.48	1.05	YES	20.3
17	44 Total-heptadioxins	423.7766	39.52	4129.929	1.051	1.086		1.05	1.05	NO	46.6
18	17 OCDD	457.7377	46.42	10307.618	1.030	4.287	4.287	0.88	0.89	NO	118.7

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	32.44	0.000		0.000					1.5
2	49 FUNCTION2 PFK	366.9792	32.38	0.000		0.000					1.6
3	49 FUNCTION2 PFK	366.9792	31.65	0.000		0.000					1.2
4	49 FUNCTION2 PFK	366.9792	31.46	0.000		0.000					2.4
5	49 FUNCTION2 PFK	366.9792	31.20	0.000		0.000					2.2
6	49 FUNCTION2 PFK	366.9792	30.09	0.000		0.000					1.6
7	49 FUNCTION2 PFK	366.9792	29.92	0.000		0.000					1.8
8	49 FUNCTION2 PFK	366.9792	29.71	0.000		0.000					2.7
9	49 FUNCTION2 PFK	366.9792	29.35	0.000		0.000					0.9
10	49 FUNCTION2 PFK	366.9792	28.68	0.000		0.000					1.3
11	49 FUNCTION2 PFK	366.9792	28.39	0.000		0.000					1.4
12	49 FUNCTION2 PFK	366.9792	28.18	0.000		0.000					0.6

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	34.53	0.000		0.000					1.1
2	50 FUNCTION3 PFK	380.9760	34.42	0.000		0.000					0.7
3	50 FUNCTION3 PFK	380.9760	32.82	0.000		0.000					1.5
4	50 FUNCTION3 PFK	380.9760	37.62	0.000		0.000					0.8
5	50 FUNCTION3 PFK	380.9760	36.87	0.000		0.000					1.4
6	50 FUNCTION3 PFK	380.9760	36.58	0.000		0.000					1.6
7	50 FUNCTION3 PFK	380.9760	36.42	0.000		0.000					0.9
8	50 FUNCTION3 PFK	380.9760	36.15	0.000		0.000					1.3
9	50 FUNCTION3 PFK	380.9760	35.89	0.000		0.000					1.4
10	50 FUNCTION3 PFK	380.9760	35.84	0.000		0.000					0.9
11	50 FUNCTION3 PFK	380.9760	34.97	0.000		0.000					0.6

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	40.11	0.000							2.2
2	51 FUNCTION4 PFK	430.9728	39.87	0.000							0.5
3	51 FUNCTION4 PFK	430.9728	39.60	0.000							1.6
4	51 FUNCTION4 PFK	430.9728	39.25	0.000							0.5
5	51 FUNCTION4 PFK	430.9728	38.84	0.000							1.3
6	51 FUNCTION4 PFK	430.9728	38.29	0.000							0.8
7	51 FUNCTION4 PFK	430.9728	38.26	0.000							0.6
8	51 FUNCTION4 PFK	430.9728	43.02	0.000							1.0
9	51 FUNCTION4 PFK	430.9728	42.61	0.000							1.7
10	51 FUNCTION4 PFK	430.9728	42.58	0.000							1.6
11	51 FUNCTION4 PFK	430.9728	42.52	0.000							1.2
12	51 FUNCTION4 PFK	430.9728	42.39	0.000							0.9
13	51 FUNCTION4 PFK	430.9728	42.16	0.000							1.4
14	51 FUNCTION4 PFK	430.9728	42.06	0.000							2.0
15	51 FUNCTION4 PFK	430.9728	41.92	0.000							0.8
16	51 FUNCTION4 PFK	430.9728	41.78	0.000							0.9
17	51 FUNCTION4 PFK	430.9728	41.54	0.000							1.0
18	51 FUNCTION4 PFK	430.9728	41.47	0.000							1.6
19	51 FUNCTION4 PFK	430.9728	41.07	0.000							1.5
20	51 FUNCTION4 PFK	430.9728	40.82	0.000							1.1
21	51 FUNCTION4 PFK	430.9728	40.74	0.000							0.5
22	51 FUNCTION4 PFK	430.9728	40.66	0.000							0.6
23	51 FUNCTION4 PFK	430.9728	40.47	0.000							1.3
24	51 FUNCTION4 PFK	430.9728	44.24	0.000							1.1
25	51 FUNCTION4 PFK	430.9728	44.07	0.000							1.4
26	51 FUNCTION4 PFK	430.9728	43.98	0.000							2.0
27	51 FUNCTION4 PFK	430.9728	43.78	0.000							0.9
28	51 FUNCTION4 PFK	430.9728	43.74	0.000							0.9
29	51 FUNCTION4 PFK	430.9728	43.64	0.000							1.3
30	51 FUNCTION4 PFK	430.9728	43.56	0.000							1.8

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	45.64	0.000							1.4
2	52 FUNCTION5 PFK	480.9696	45.52	0.000							0.6
3	52 FUNCTION5 PFK	480.9696	45.12	0.000							0.5
4	52 FUNCTION5 PFK	480.9696	45.02	0.000							1.1
5	52 FUNCTION5 PFK	480.9696	44.86	0.000							0.4
6	52 FUNCTION5 PFK	480.9696	44.70	0.000							0.7
7	52 FUNCTION5 PFK	480.9696	44.62	0.000							0.6
8	52 FUNCTION5 PFK	480.9696	44.57	0.000							1.1
9	52 FUNCTION5 PFK	480.9696	47.47	0.000							0.4
10	52 FUNCTION5 PFK	480.9696	47.24	0.000							0.6
11	52 FUNCTION5 PFK	480.9696	47.12	0.000							1.5
12	52 FUNCTION5 PFK	480.9696	47.06	0.000							1.9
13	52 FUNCTION5 PFK	480.9696	46.96	0.000							0.6
14	52 FUNCTION5 PFK	480.9696	46.67	0.000							2.0
15	52 FUNCTION5 PFK	480.9696	46.59	0.000							1.2
16	52 FUNCTION5 PFK	480.9696	46.55	0.000							0.6
17	52 FUNCTION5 PFK	480.9696	46.49	0.000							0.8
18	52 FUNCTION5 PFK	480.9696	46.32	0.000							1.9
19	52 FUNCTION5 PFK	480.9696	46.28	0.000							0.6
20	52 FUNCTION5 PFK	480.9696	46.19	0.000							2.1
21	52 FUNCTION5 PFK	480.9696	46.15	0.000							0.7
22	52 FUNCTION5 PFK	480.9696	46.07	0.000							1.6
23	52 FUNCTION5 PFK	480.9696	45.97	0.000							1.5
24	52 FUNCTION5 PFK	480.9696	45.80	0.000							1.4
25	52 FUNCTION5 PFK	480.9696	49.24	0.000							0.7
26	52 FUNCTION5 PFK	480.9696	49.15	0.000							1.9
27	52 FUNCTION5 PFK	480.9696	49.09	0.000							1.7
28	52 FUNCTION5 PFK	480.9696	49.05	0.000							2.4
29	52 FUNCTION5 PFK	480.9696	48.98	0.000							1.7
30	52 FUNCTION5 PFK	480.9696	48.89	0.000							1.5
31	52 FUNCTION5 PFK	480.9696	48.50	0.000							1.3
32	52 FUNCTION5 PFK	480.9696	48.36	0.000							0.6
33	52 FUNCTION5 PFK	480.9696	48.12	0.000							1.5
34	52 FUNCTION5 PFK	480.9696	48.09	0.000							1.6
35	52 FUNCTION5 PFK	480.9696	48.02	0.000							2.1
36	52 FUNCTION5 PFK	480.9696	47.98	0.000							1.0
37	52 FUNCTION5 PFK	480.9696	47.84	0.000							0.5
38	52 FUNCTION5 PFK	480.9696	47.81	0.000							0.5
39	52 FUNCTION5 PFK	480.9696	47.64	0.000							0.3
40	52 FUNCTION5 PFK	480.9696	47.50	0.000							1.3

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	25.61	0.000		0.000					63.9
2	53 FUNCTION1 HXCD...	375.8364	25.33	0.000		0.000					17.9
3	53 FUNCTION1 HXCD...	375.8364	22.43	0.000		0.000					3.7

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	21.86	0.000		0.000					25.3

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	32.52	0.000		0.000					4.8
2	55 FUNCTION2 HPCD...	409.7974	30.30	0.000		0.000					1.5

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	37.76	0.000		0.000					7.2
2	56 FUNCTION3 OCDPE	445.7555	37.37	0.000		0.000					5.9
3	56 FUNCTION3 OCDPE	445.7555	35.16	0.000		0.000					6.1

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	40.77	0.000		0.000					4.0
2	57 FUNCTION4 NCDPE	479.7165	38.59	0.000		0.000					6.0
3	57 FUNCTION4 NCDPE	479.7165	43.64	0.000		0.000					1.7
4	57 FUNCTION4 NCDPE	479.7165	43.58	0.000		0.000					4.5
5	57 FUNCTION4 NCDPE	479.7165	42.12	0.000		0.000					3.0
6	57 FUNCTION4 NCDPE	479.7165	41.14	0.000		0.000					5.3

ETHERS6

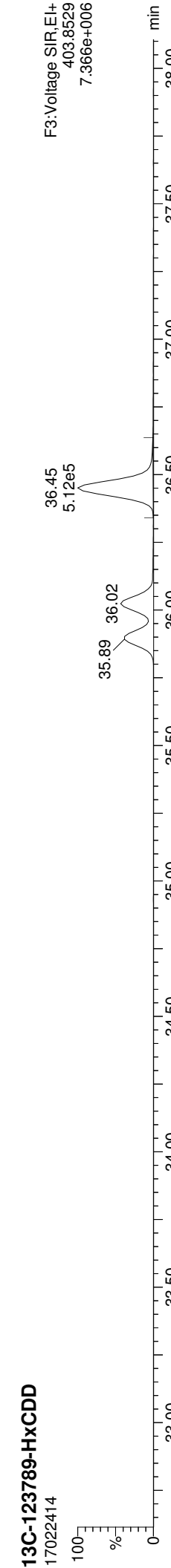
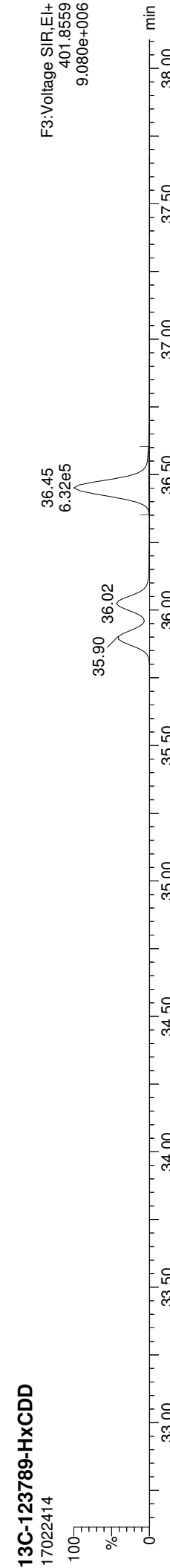
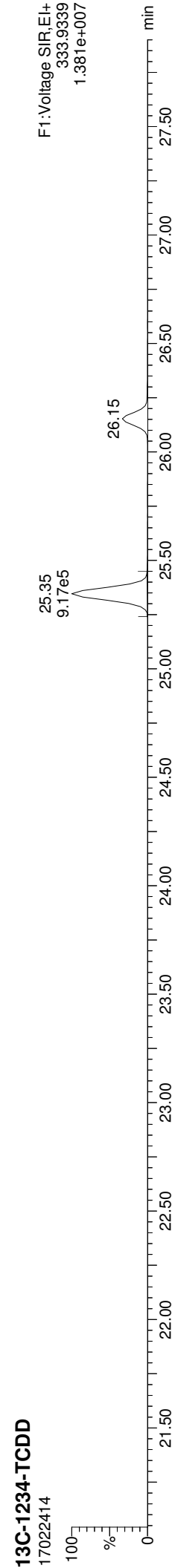
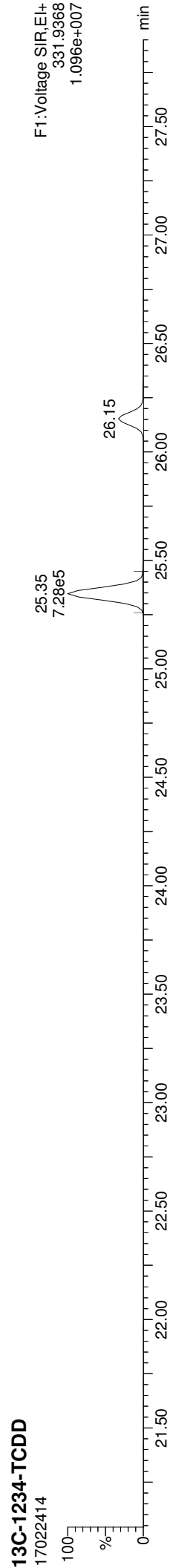
	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	58 FUNCTION5 DCDPE	513.6775	47.96	0.000		0.000					12.1

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

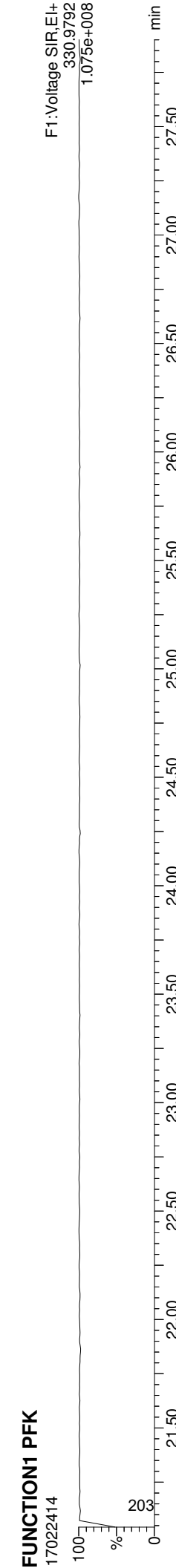
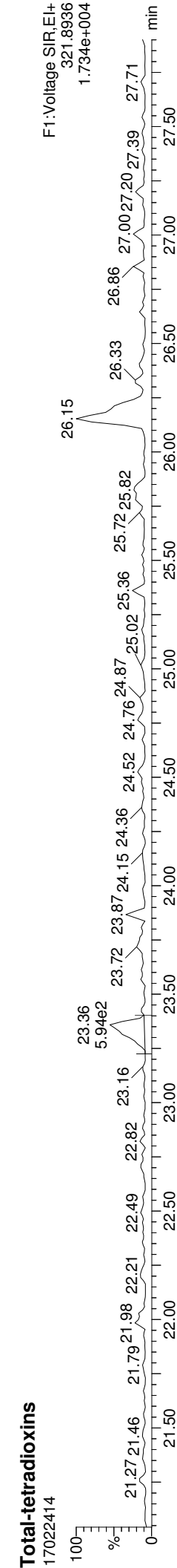
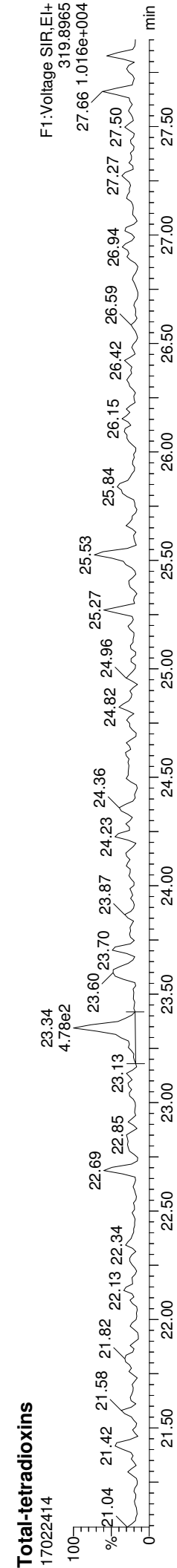
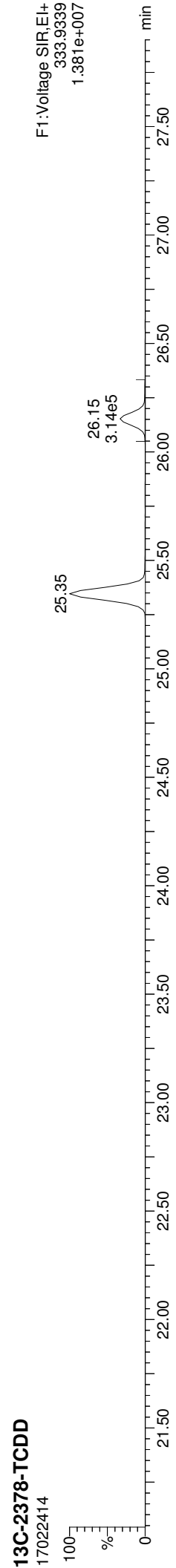
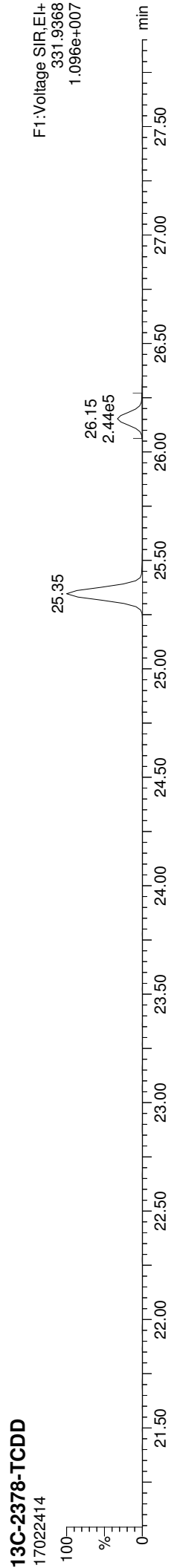
ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK



Quantify Sample Report

MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17022414.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

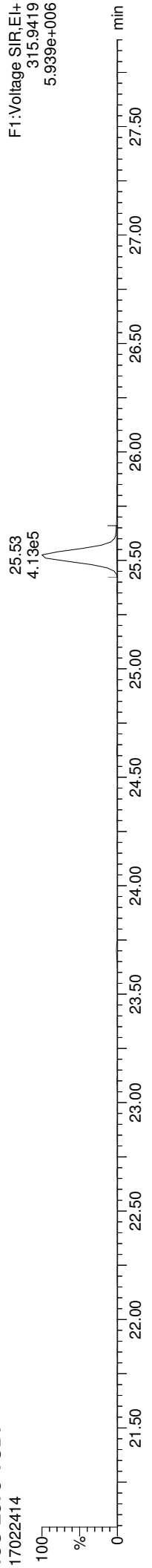
ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK



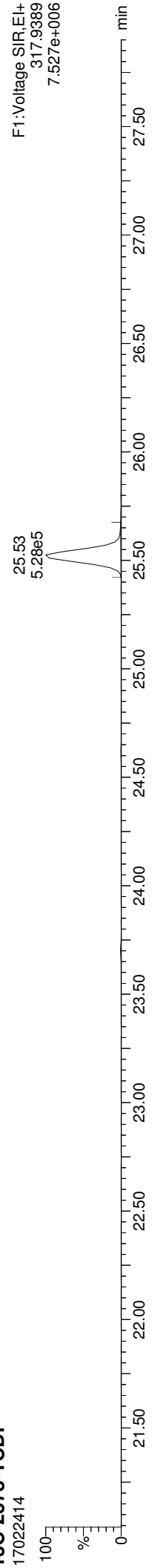
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

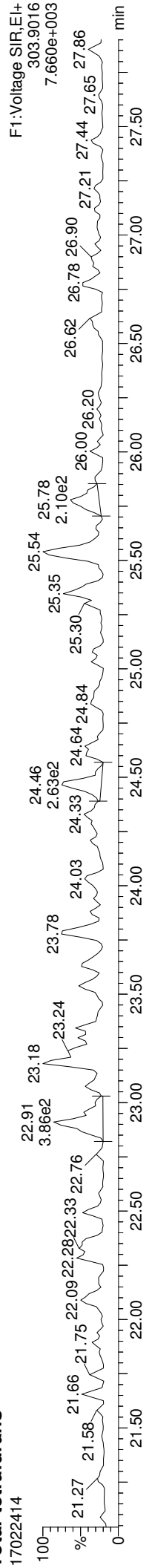
13C-2378-TCDF



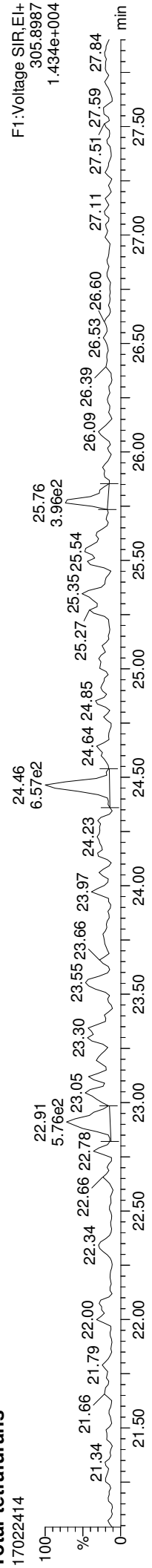
13C-2378-TCDF



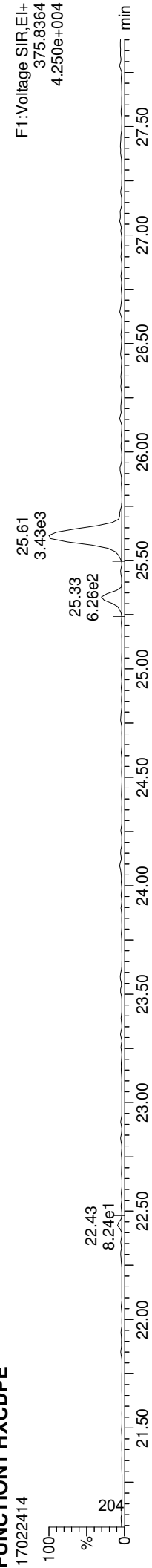
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

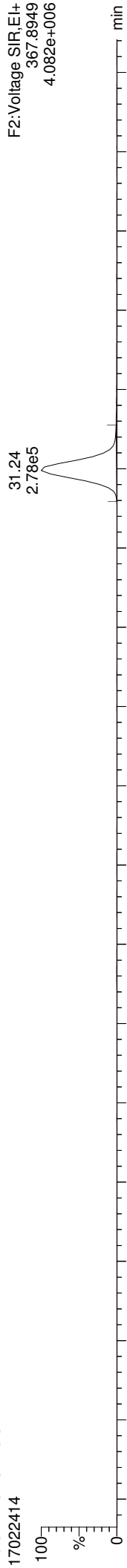


Quantify Sample Report

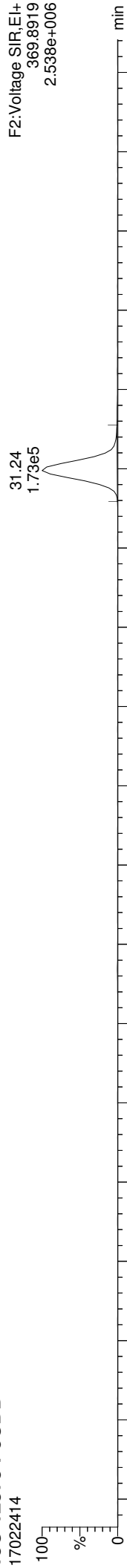
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17022414.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

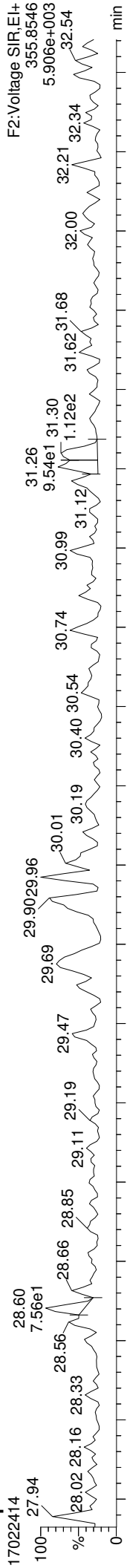
13C-12378-PeCDD



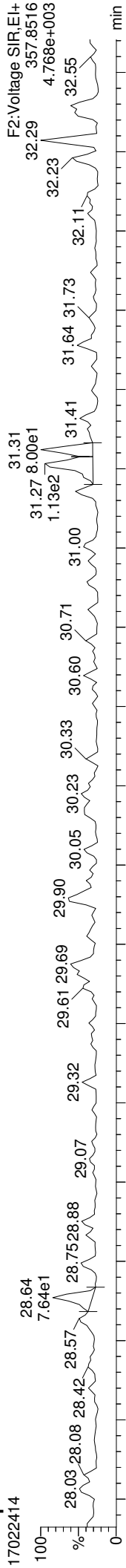
13C-12378-PeCDD



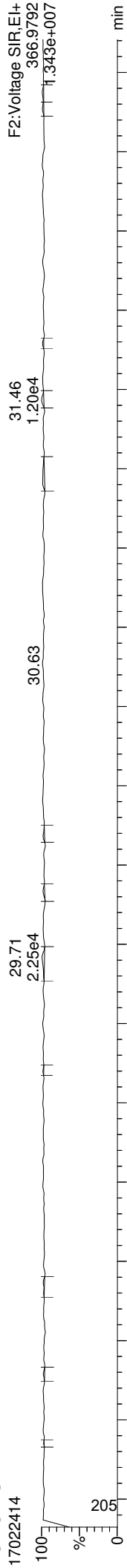
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

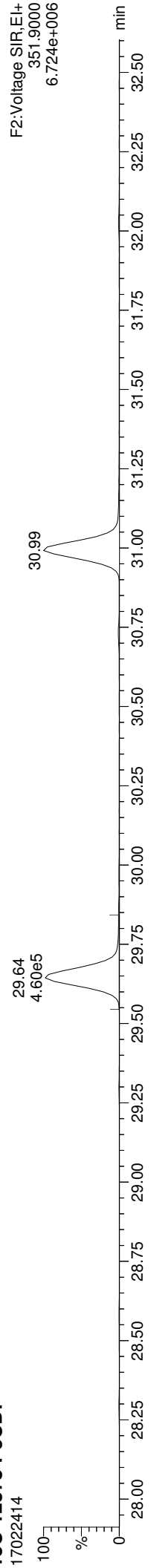


Quantify Sample Report

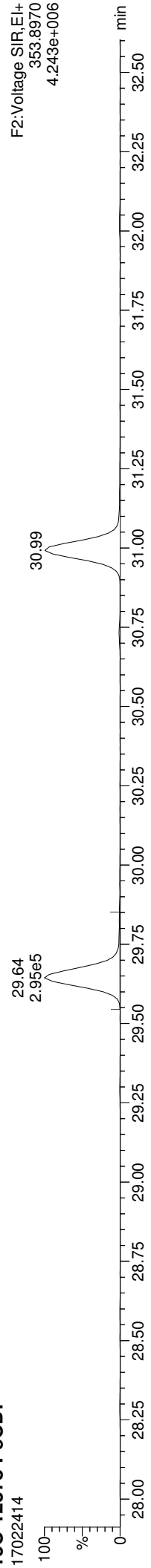
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17022414.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

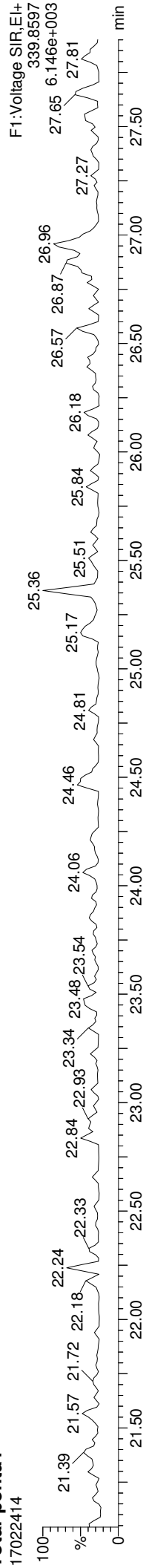
13C-12378-PeCDF



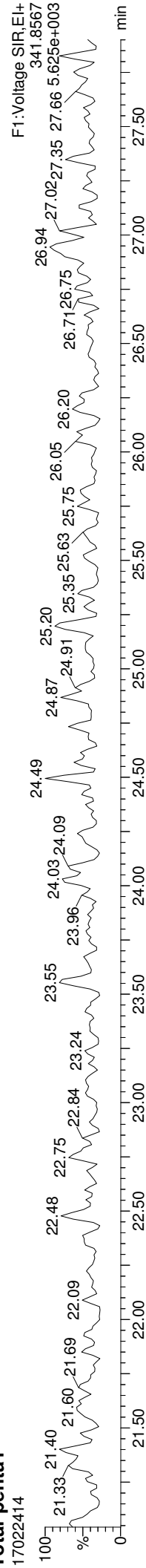
13C-12378-PeCDF



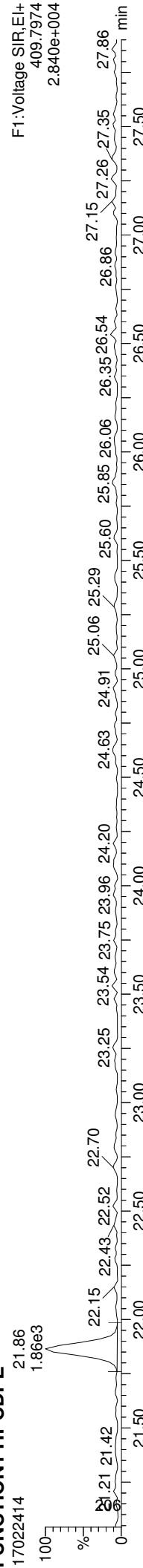
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

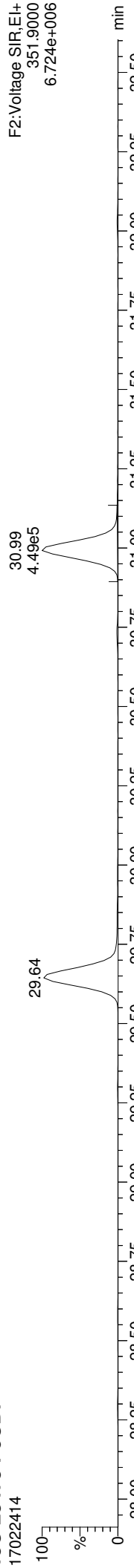


Quantify Sample Report

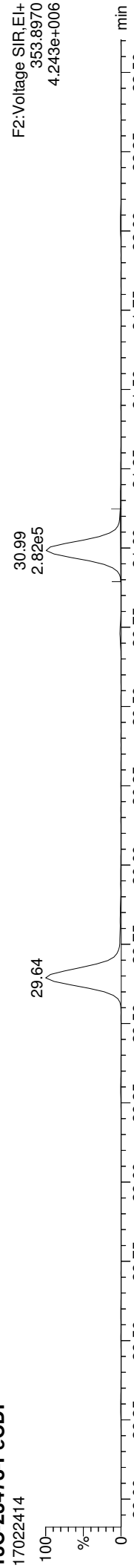
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

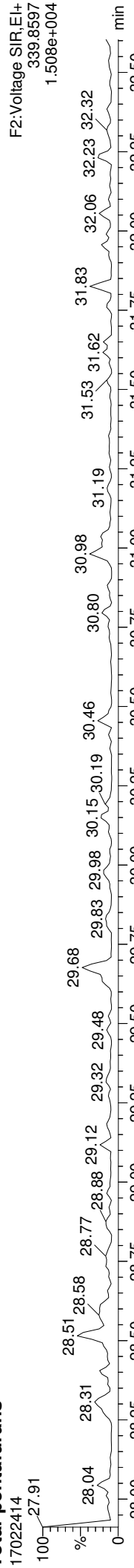
13C-23478-PeCDF



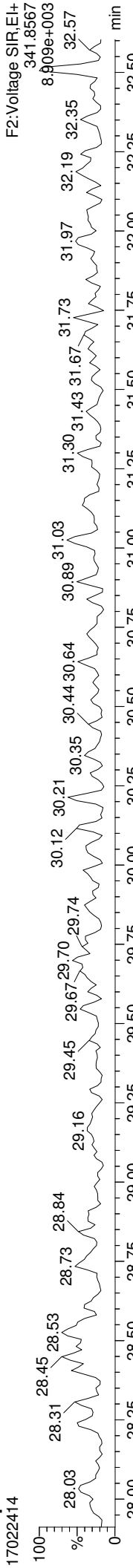
13C-23478-PeCDF



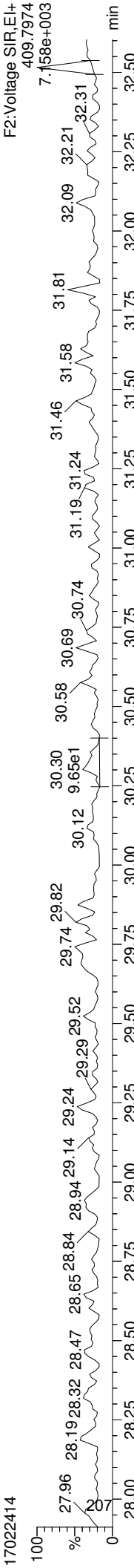
Total-pentafurans



Total-pentafurans



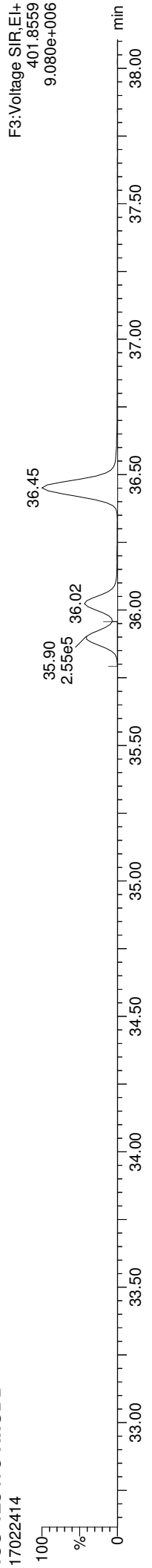
FUNCTION2 HPCDPE



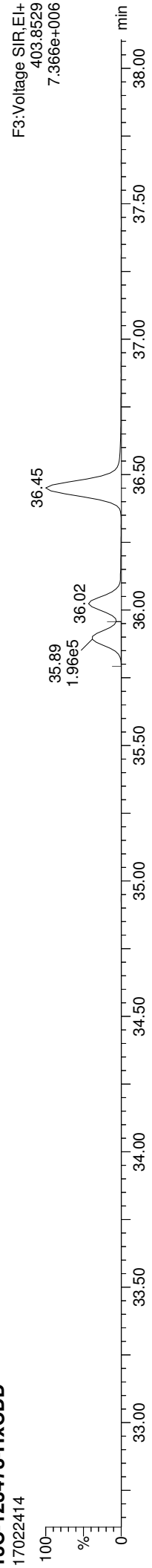
Dataset: C:\MassLynx\Dioxin.pro\17022414.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

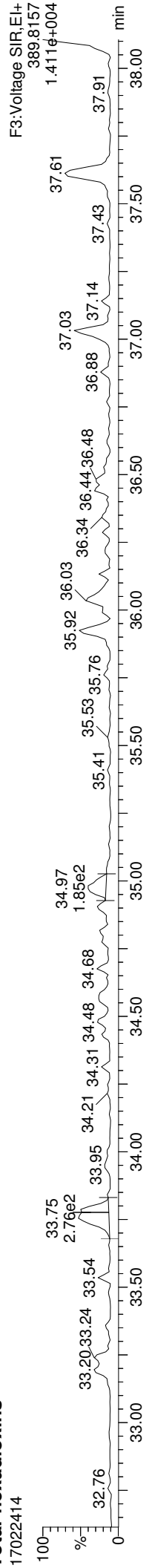
13C-123478-HxCDD



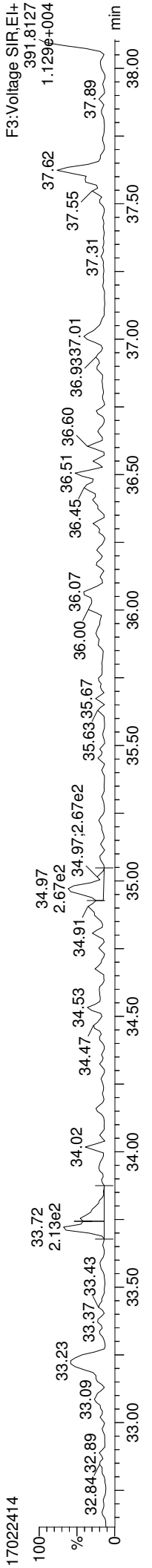
13C-123478-HxCDD



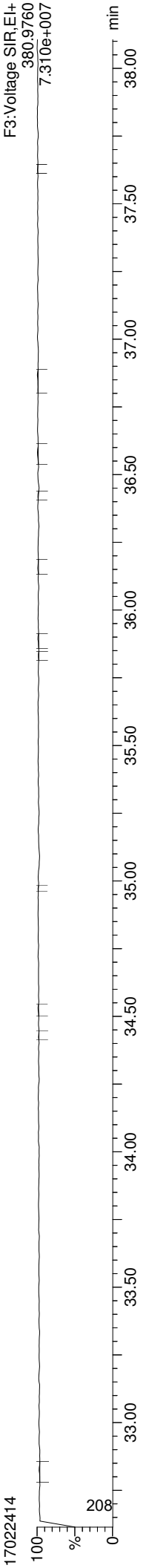
Total-hexadioxins



Total-hexadioxins



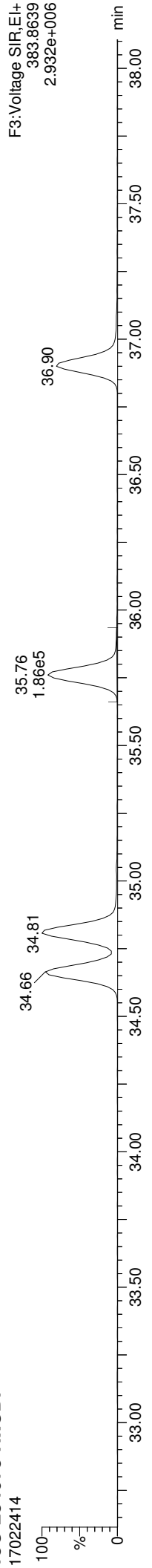
FUNCTION3 PFK



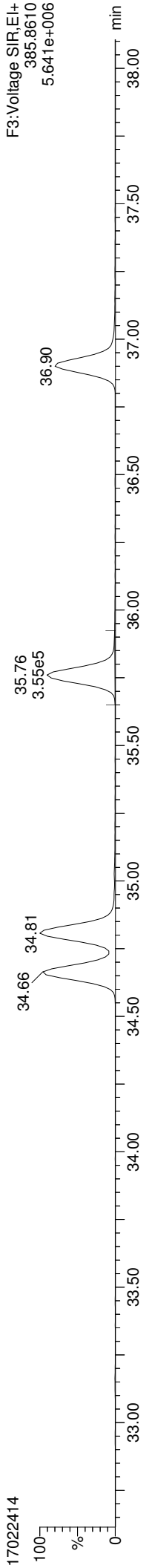
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

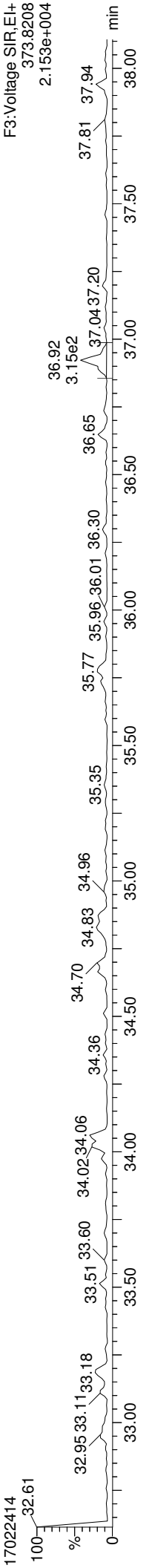
13C-234678-HxCDF



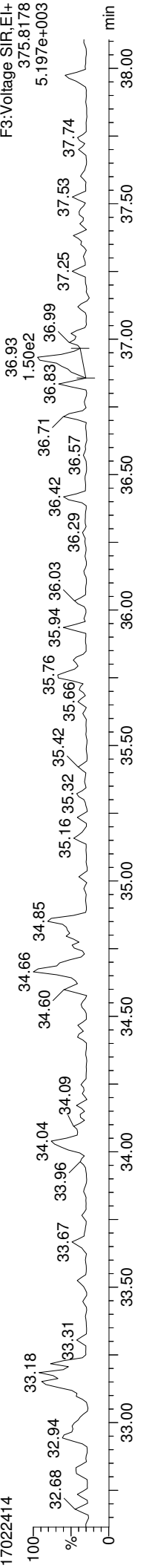
13C-234678-HxCDF



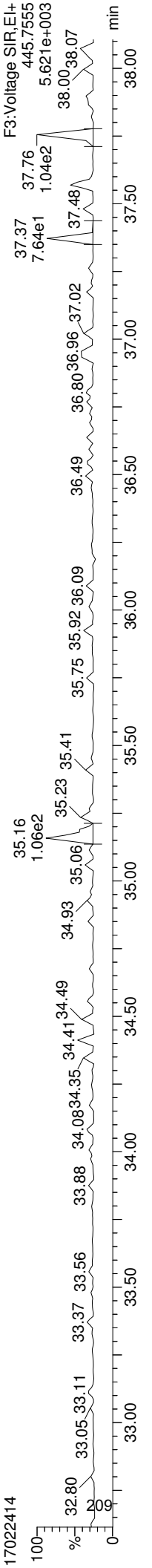
Total-hexafurans



Total-hexafurans



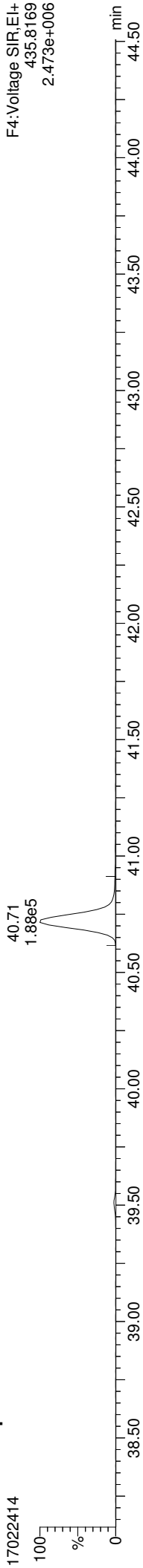
FUNCTION3 OCDPE



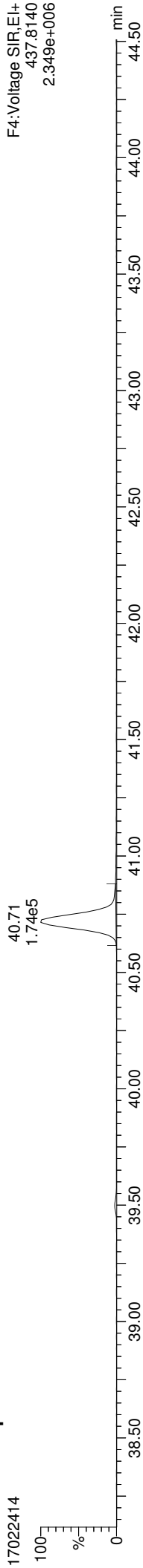
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17022414.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

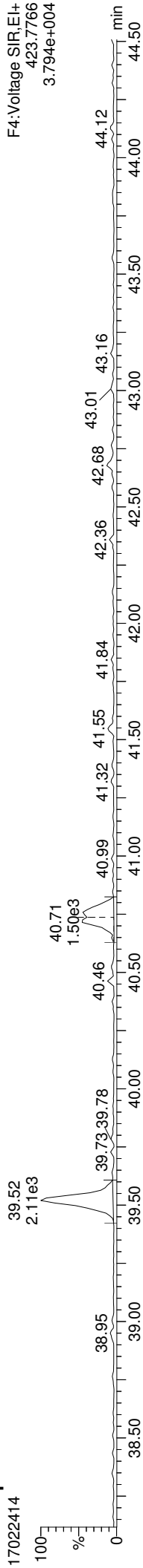
13C-1234678-HpCDD



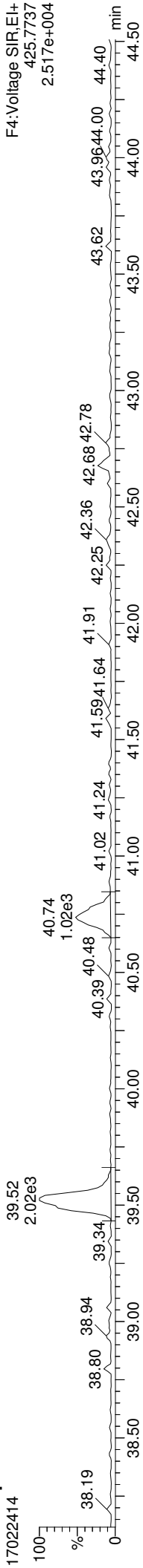
13C-1234678-HpCDD



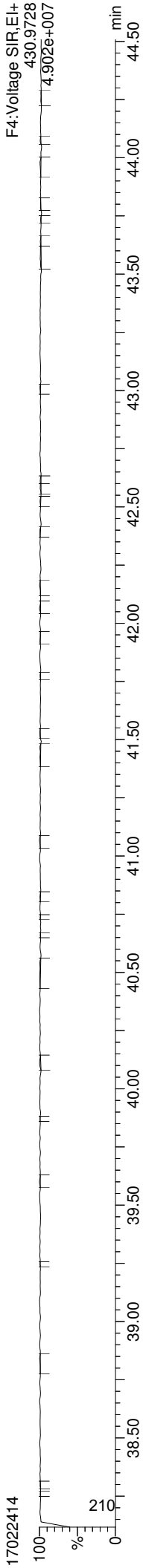
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

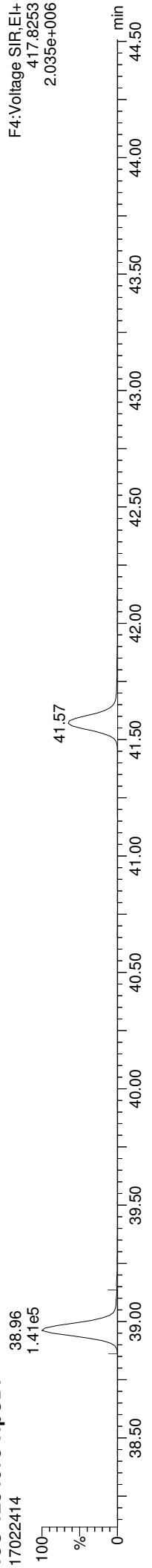


Quantify Sample Report

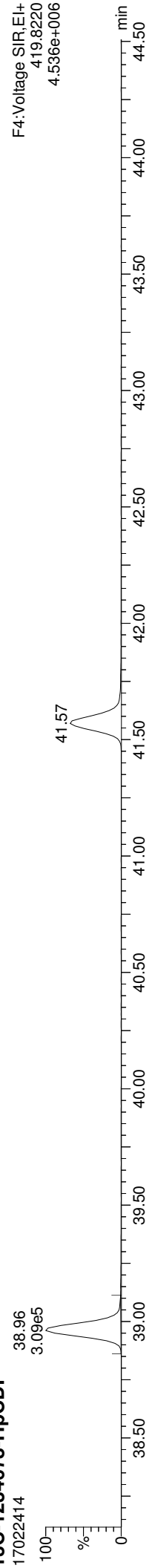
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

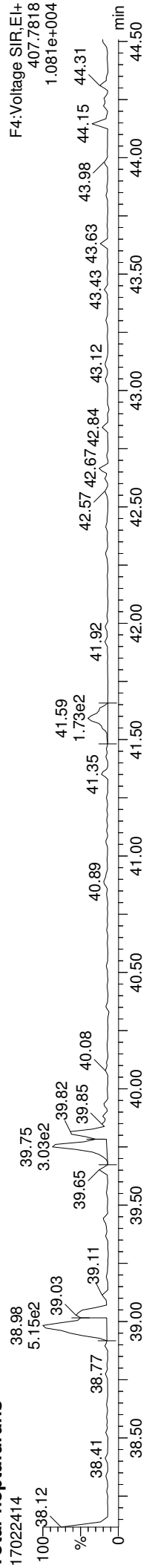
13C-1234678-HpCDF



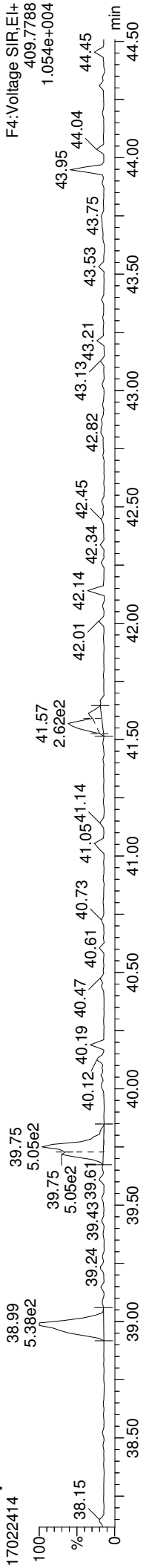
13C-1234678-HpCDF



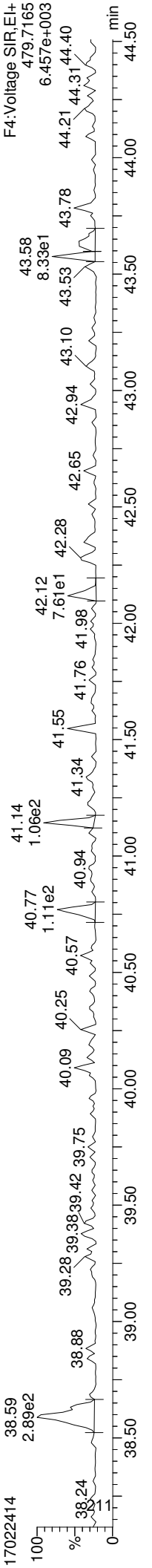
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

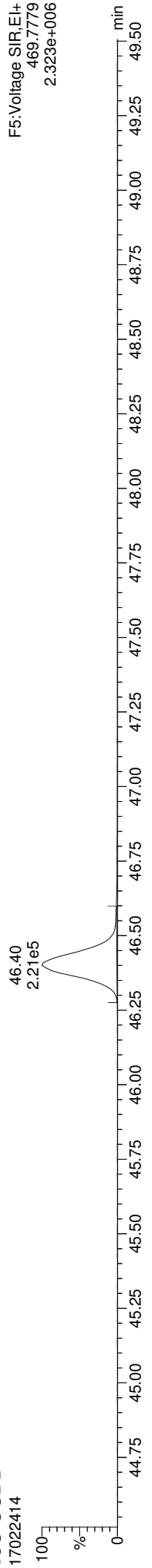


Quantify Sample Report

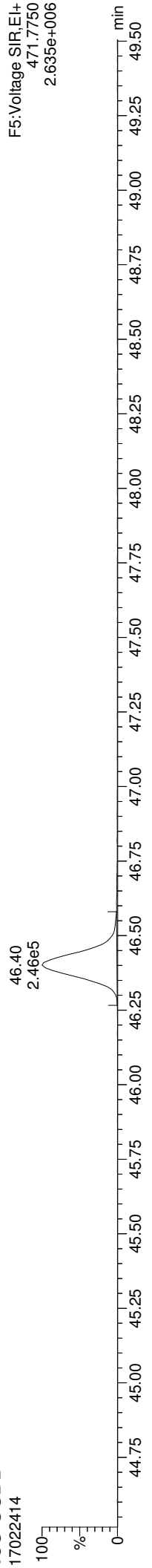
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17022414.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

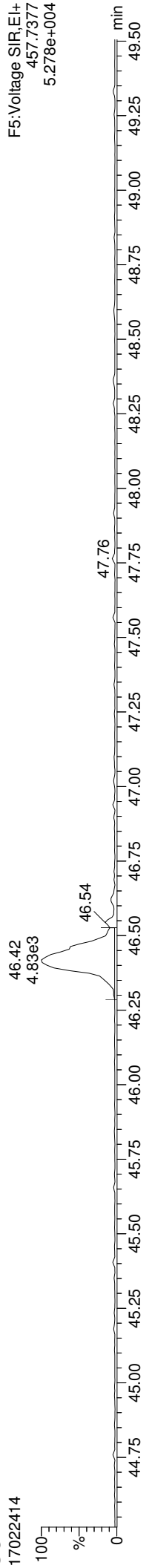
13C-OCDD



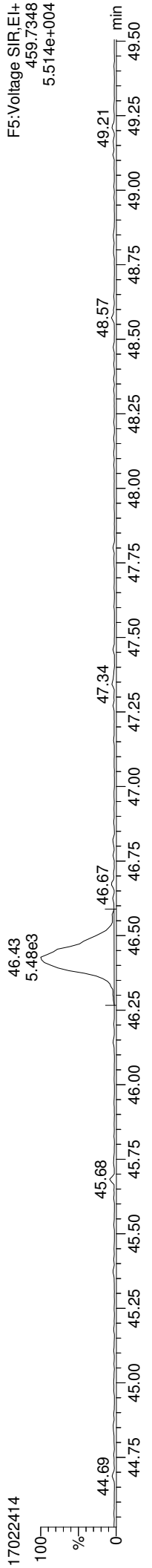
13C-OCDD



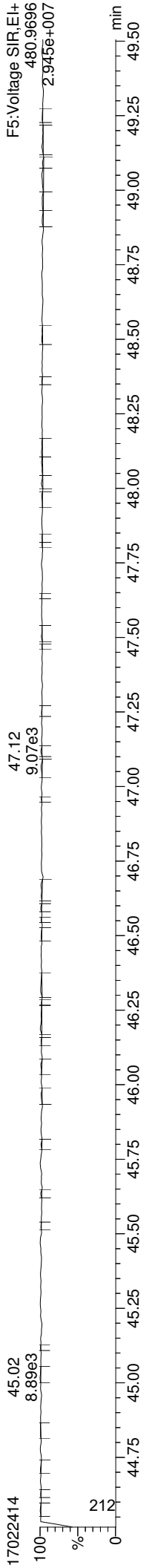
OCDD



OCDD



FUNCTION5 PFK

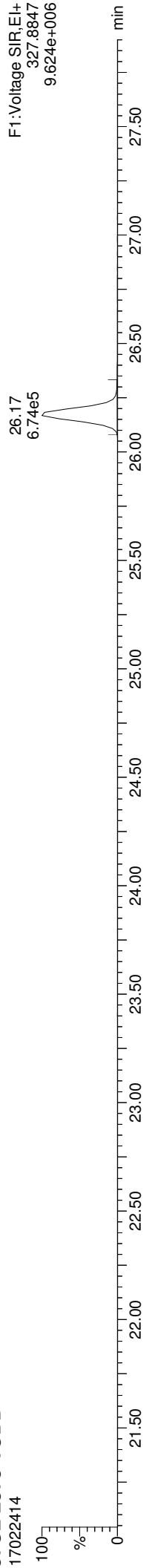


Quantify Sample Report

MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:18:31 Pacific Standard Time

ID: 16K0053-11RE1, Name: 17022414, Date: 25-Feb-2017, Time: 00:45:09, Conditions: AUTOSPEC01, User: PK

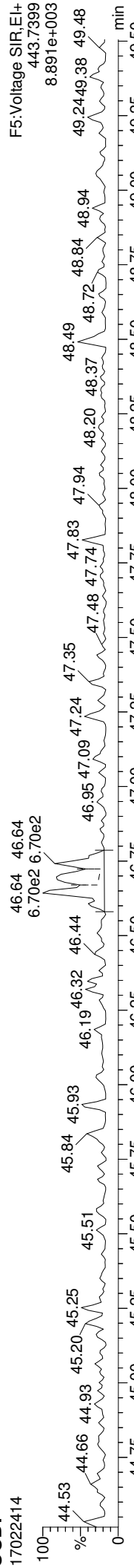
37CL-2378-TCDD



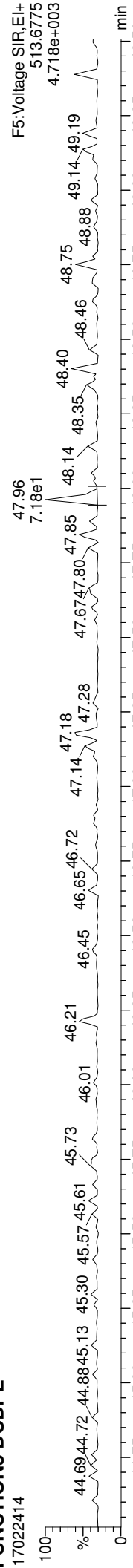
OCDF



OCDF



FUNCTION5 DCDPE





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-12</u>
Sampled:	<u>01/05/17 00:00</u>	File ID:	<u>17020818</u>
Solids Wt%:		Prepared:	<u>01/31/17 14:50</u>
Result Basis:	<u>Dry</u>	Analyzed:	<u>02/09/17 01:47</u>
Batch:	<u>BFA0657</u>	Preparation:	<u>EPA 1613</u>
		Initial/Final:	<u>10.2 g / 20 uL</u>
		Sequence:	<u>SFB0085</u>
		Calibration:	<u>AA00071</u>
		Instrument:	<u>AUTOSPEC01</u>
		Column:	<u>RTX-Dioxin2</u>

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.156	0.980	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.227	0.980	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.275	4.90	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.268	4.90	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.286	4.90	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.197	4.90	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.205	4.90	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.216	4.90	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.241	4.90	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.482	4.90	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.520	4.90	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.523	4.90	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.176	0.893-1.208		4.90	0.230	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.264	4.90	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.790	0.893-1.208		4.90	1.27	ng/kg	EMPC, J, B
39001-02-0	OCDF	1	1.330	0.757-1.024		9.80	0.652	ng/kg	EMPC, J, B
3268-87-9	OCDD	1	0.918	0.757-1.024		9.80	11.0	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.980	ND	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.980	ND	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.980	ND	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.980	ND	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.980	ND	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.980	ND	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.980	0.718	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.980	3.41	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.018
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.018



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Laboratory ID:	<u>17A0053-12</u>
Sampled:	<u>01/05/17 00:00</u>	Prepared:	<u>01/31/17 14:50</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFB0085</u>
Batch:	<u>BFA0657</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17020818</u>
		Analyzed:	<u>02/09/17 01:47</u>
		Initial/Final:	<u>10.2 g / 20 uL</u>
		Calibration:	<u>AA00071</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.761	0.655-0.886		16.8	24 - 169 %	*
13C12-2,3,7,8-TCDD		0.809	0.655-0.886		16.9	25 - 164 %	*
13C12-1,2,3,7,8-PeCDF		1.609	1.318-1.783		15.5	24 - 185 %	*
13C12-2,3,4,7,8-PeCDF		1.546	1.318-1.783		15.7	21 - 178 %	*
13C12-1,2,3,7,8-PeCDD		1.564	1.318-1.783		16.0	25 - 181 %	*
13C12-1,2,3,4,7,8-HxCDF		0.501	0.434-0.587		16.1	26 - 152 %	*
13C12-1,2,3,6,7,8-HxCDF		0.536	0.434-0.587		16.0	26 - 123 %	*
13C12-2,3,4,6,7,8-HxCDF		0.537	0.434-0.587		15.9	28 - 136 %	*
13C12-1,2,3,7,8,9-HxCDF		0.514	0.434-0.587		17.9	29 - 147 %	*
13C12-1,2,3,4,7,8-HxCDD		1.301	1.054-1.426		16.6	32 - 141 %	*
13C12-1,2,3,6,7,8-HxCDD		1.281	1.054-1.426		15.9	28 - 130 %	*
13C12-1,2,3,4,6,7,8-HpCDF		0.439	0.374-0.506		16.8	28 - 143 %	*
13C12-1,2,3,4,7,8,9-HpCDF		0.430	0.374-0.506		19.0	26 - 138 %	*
13C12-1,2,3,4,6,7,8-HpCDD		1.092	0.893-1.208		18.2	23 - 140 %	*
13C12-OCDD		0.907	0.757-1.024		15.2	17 - 157 %	*
37C14-2,3,7,8-TCDD		328.000			93.0	35 - 197 %	*

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF					0.924		0.770	425	436					
12378-PeCDF					0.954		1.550	478	733					
23478-PeCDF					0.966		1.550	478	733					
123478-HxCDF					1.141		1.240	505	309					
234678-HxCDF					1.181		1.240	505	309					
123678-HxCDF					1.089		1.240	505	309					
123789-HxCDF					1.110		1.240	505	309					
1234678-HpCDF	39.644	1.000	9.71e1	8.25e1	1.267	1.176	1.050	342	335	1.91e3	1.76e3	5.6	NO	0.117
1234789-HpCDF					1.295		1.050	342	335					
OCDF	47.703	1.006	1.26e2	9.45e1	1.067	1.330	0.890	367	398	3.43e3	3.72e3	9.4	YES	0.333
2378-TCDD					1.150		0.770	441	454					
12378-PeCDD					1.017		1.550	495	341					
123478-HxCDD					1.017		1.240	662	711					
123678-HxCDD					0.964		1.240	662	711					
123789-HxCDD					0.948		1.240	662	711					
1234678-HpCDD	41.486	1.001	2.95e2	3.74e2	1.051	0.790	1.050	436	383	5.57e3	7.53e3	12.8	YES	0.648
OCDD	47.417	1.000	1.71e3	1.86e3	1.030	0.918	0.890	314	459	1.79e4	2.24e4	57.0	NO	5.588
13C-2378-TCDF	26.138	1.007	1.09e5	1.43e5	1.515	0.761	0.770	2972	1532	1.51e6	1.99e6	509.5	NO	16.777
13C-12378-PeCDF	30.294	1.167	1.20e5	7.49e4	1.276	1.609	1.550	1141	1950	1.67e6	1.03e6	1465.3	NO	15.463
13C-23478-PeCDF	31.642	1.219	1.18e5	7.66e4	1.257	1.546	1.550	1141	1950	1.67e6	1.07e6	1463.5	NO	15.675
13C-123478-HxCDF	35.326	0.952	4.78e4	9.54e4	1.431	0.501	0.510	1157	1338	7.12e5	1.38e6	615.6	NO	16.128
13C-123678-HxCDF	35.468	0.956	5.37e4	1.00e5	1.552	0.536	0.510	1157	1338	7.49e5	1.44e6	647.1	NO	15.975
13C-234678-HxCDF	36.422	0.981	4.64e4	8.63e4	1.349	0.537	0.510	1157	1338	6.57e5	1.25e6	567.8	NO	15.862
13C-123789-HxCDF	37.562	1.012	4.18e4	8.14e4	1.111	0.514	0.510	1157	1338	6.08e5	1.19e6	525.6	NO	17.876
13C-1234678-HpCDF	39.633	1.068	3.68e4	8.40e4	1.160	0.439	0.440	922	1010	5.10e5	1.19e6	553.4	NO	16.791
13C-1234789-HpCDF	42.352	1.141	2.69e4	6.25e4	0.758	0.430	0.440	922	1010	3.50e5	7.91e5	379.6	NO	18.998
13C-1234-TCDD	25.958	0.000	4.38e5	5.52e5	1.000	0.795	0.770	1061	685	6.32e6	7.97e6	5952.9	NO	100.000
13C-2378-TCDD	26.765	1.031	6.52e4	8.06e4	0.872	0.809	0.770	1061	685	9.02e5	1.12e6	850.5	NO	16.886
13C-12378-PeCDD	31.895	1.229	7.28e4	4.66e4	0.754	1.564	1.550	580	657	1.03e6	6.45e5	1775.2	NO	15.988
13C-123478-HxCDD	36.553	0.985	6.43e4	4.94e4	1.106	1.301	1.240	1518	1145	9.31e5	7.11e5	613.0	NO	16.567
13C-123678-HxCDD	36.685	0.988	6.45e4	5.04e4	1.165	1.281	1.240	1518	1145	9.05e5	7.30e5	596.1	NO	15.900
13C-1234678-HpCDD	41.453	1.117	5.13e4	4.70e4	0.872	1.092	1.050	772	673	6.52e5	6.29e5	844.2	NO	18.165
13C-OCDD	47.398	1.277	5.89e4	6.50e4	0.655	0.907	0.890	494	663	5.96e5	6.45e5	1205.7	NO	30.484
13C-123789-HxCDD	37.112	0.000	3.44e5	2.76e5	1.000	1.245	1.240	1518	1145	4.98e6	3.98e6	3278.4	NO	100.000
Total-tetrafurans			0.00e0		0.924			425		0.00e0				

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			0.00e0					297		0.00e0				
Total-pentafurans			0.00e0		0.960			478		0.00e0				
Total-hexafurans			0.00e0		1.130			505		0.00e0				
Total-heptafurans			3.15e2		1.281			342		6.29e3				0.366
Total-Furans			4.41e2		1.100			425		9.73e3				0.699
Total-tetradioxins			0.00e0		1.150			441		0.00e0				
Total-pentadioxins			0.00e0		1.017			495		0.00e0				
Total-hexadioxins			0.00e0		0.977			662		0.00e0				
Total-heptadioxins			9.13e2		1.051			436		1.38e4				1.740
Total-Dioxins			2.62e3		1.025			441		3.17e4				7.329
Total-TEQ			3.06e3					441		4.14e4				8.027
37CL-2378-TCDD	26.795	1.032	3.95e5		1.073			998		5.37e6		5376.3		37.215
FUNCTION1 PFK			2.69e5					158884		2.05e6				
FUNCTION2 PFK			7.63e4					61076		2.18e6				0.000
FUNCTION3 PFK			3.22e6					126612		3.04e7				0.000
FUNCTION4 PFK			6.04e4					122783		2.39e6				
FUNCTION5 PFK			6.05e4					76204		2.36e6				
FUNCTION1 HXCD...			1.07e3					248		1.35e4				0.000
FUNCTION1 HPCD...			1.56e2					242		3.54e3				0.000
FUNCTION2 HPCD...			0.00e0					255		0.00e0				
FUNCTION3 OCDPE			0.00e0					253		0.00e0				
FUNCTION4 NCDPE			0.00e0					283		0.00e0				
FUNCTION5 DCDPE			0.00e0					246		0.00e0				

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

TF

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1												

PP

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1												

PF

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1												

HF

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1												

HPF

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-heptafurans	407.7818	40.46	334.615	1.281	0.249			1.88	1.05	YES	12.8
2	8 1234678-HpCDF	407.7818	39.64	179.582	1.267	0.117	0.117		1.18	1.05	NO	5.6

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-heptafurans	407.7818	40.46	334.615	1.281	0.249			1.88	1.05	YES	12.8
2	8 1234678-HpCDF	407.7818	39.64	179.582	1.267	0.117	0.117		1.18	1.05	NO	5.6
3	10 OCDF	441.7428	47.70	220.075	1.067	0.333	0.270		1.33	0.89	YES	9.4

TD

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1												

PD

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1												

HD

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1												

HPD

#	Name	Trace	RT	Abs.Resp	RRF	M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.49	669.108	1.051	0.648	0.558		0.79	1.05	YES	12.8
2	44 Total-heptadioxins	423.7766	40.21	1128.559	1.051	1.092			1.21	1.05	YES	18.8218

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.49	669.108	1.051	0.648	0.558	0.79	1.05	YES	12.8
2	44 Total-heptadioxins	423.7766	40.21	1128.559	1.051	1.092		1.21	1.05	YES	18.8
3	17 OCDD	457.7377	47.42	3566.945	1.030	5.588	5.588	0.92	0.89	NO	57.0

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	39 Total-heptafurans	407.7818	40.46	334.615	1.281	0.249		1.88	1.05	YES	12.8
2	8 1234678-HpCDF	407.7818	39.64	179.582	1.267	0.117	0.117	1.18	1.05	NO	5.6
3	10 OCDF	441.7428	47.70	220.075	1.067	0.333	0.270	1.33	0.89	YES	9.4
4	16 1234678-HpCDD	423.7766	41.49	669.108	1.051	0.648	0.558	0.79	1.05	YES	12.8
5	44 Total-heptadioxins	423.7766	40.21	1128.559	1.051	1.092		1.21	1.05	YES	18.8
6	17 OCDD	457.7377	47.42	3566.945	1.030	5.588	5.588	0.92	0.89	NO	57.0

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	24.60	0.000							4.6
2	48 FUNCTION1 PFK	330.9792	24.40	0.000							4.1
3	48 FUNCTION1 PFK	330.9792	22.40	0.000							4.2

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
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ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	30.09	0.000		0.000					1.1
2	49 FUNCTION2 PFK	366.9792	29.98	0.000		0.000					1.0
3	49 FUNCTION2 PFK	366.9792	29.92	0.000		0.000					1.7
4	49 FUNCTION2 PFK	366.9792	29.65	0.000		0.000					1.1
5	49 FUNCTION2 PFK	366.9792	29.59	0.000		0.000					1.3
6	49 FUNCTION2 PFK	366.9792	29.44	0.000		0.000					0.9
7	49 FUNCTION2 PFK	366.9792	29.30	0.000		0.000					1.4
8	49 FUNCTION2 PFK	366.9792	29.10	0.000		0.000					1.3
9	49 FUNCTION2 PFK	366.9792	29.07	0.000		0.000					0.6
10	49 FUNCTION2 PFK	366.9792	28.83	0.000		0.000					1.1
11	49 FUNCTION2 PFK	366.9792	28.56	0.000		0.000					0.9
12	49 FUNCTION2 PFK	366.9792	31.65	0.000		0.000					1.3
13	49 FUNCTION2 PFK	366.9792	31.59	0.000		0.000					1.3
14	49 FUNCTION2 PFK	366.9792	31.51	0.000		0.000					1.2
15	49 FUNCTION2 PFK	366.9792	31.38	0.000		0.000					0.7
16	49 FUNCTION2 PFK	366.9792	31.26	0.000		0.000					1.5
17	49 FUNCTION2 PFK	366.9792	31.19	0.000		0.000					0.9
18	49 FUNCTION2 PFK	366.9792	31.15	0.000		0.000					1.3
19	49 FUNCTION2 PFK	366.9792	31.11	0.000		0.000					1.3
20	49 FUNCTION2 PFK	366.9792	31.07	0.000		0.000					0.8
21	49 FUNCTION2 PFK	366.9792	30.91	0.000		0.000					1.4
22	49 FUNCTION2 PFK	366.9792	30.80	0.000		0.000					0.9
23	49 FUNCTION2 PFK	366.9792	30.72	0.000		0.000					1.2
24	49 FUNCTION2 PFK	366.9792	30.58	0.000		0.000					0.6
25	49 FUNCTION2 PFK	366.9792	30.49	0.000		0.000					1.6
26	49 FUNCTION2 PFK	366.9792	30.36	0.000		0.000					0.8
27	49 FUNCTION2 PFK	366.9792	30.32	0.000		0.000					0.6
28	49 FUNCTION2 PFK	366.9792	32.80	0.000		0.000					1.4
29	49 FUNCTION2 PFK	366.9792	32.51	0.000		0.000					0.8
30	49 FUNCTION2 PFK	366.9792	32.39	0.000		0.000					0.3
31	49 FUNCTION2 PFK	366.9792	32.35	0.000		0.000					0.6
32	49 FUNCTION2 PFK	366.9792	32.09	0.000		0.000					0.4
33	49 FUNCTION2 PFK	366.9792	31.95	0.000		0.000					0.3
34	49 FUNCTION2 PFK	366.9792	31.87	0.000		0.000					1.0
35	49 FUNCTION2 PFK	366.9792	31.83	0.000		0.000					1.2

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	34.01	0.000		0.000					8.0
2	50 FUNCTION3 PFK	380.9760	33.86	0.000		0.000					15.1
3	50 FUNCTION3 PFK	380.9760	33.82	0.000		0.000					15.9
4	50 FUNCTION3 PFK	380.9760	33.39	0.000		0.000					35.6
5	50 FUNCTION3 PFK	380.9760	33.31	0.000		0.000					38.7
6	50 FUNCTION3 PFK	380.9760	33.25	0.000		0.000					40.5
7	50 FUNCTION3 PFK	380.9760	33.18	0.000		0.000					44.0
8	50 FUNCTION3 PFK	380.9760	35.90	0.000		0.000					1.6
9	50 FUNCTION3 PFK	380.9760	35.79	0.000		0.000					0.6
10	50 FUNCTION3 PFK	380.9760	35.56	0.000		0.000					0.4
11	50 FUNCTION3 PFK	380.9760	35.50	0.000		0.000					1.4
12	50 FUNCTION3 PFK	380.9760	35.42	0.000		0.000					1.0
13	50 FUNCTION3 PFK	380.9760	35.31	0.000		0.000					1.6
14	50 FUNCTION3 PFK	380.9760	35.22	0.000		0.000					1.6
15	50 FUNCTION3 PFK	380.9760	35.05	0.000		0.000					1.4
16	50 FUNCTION3 PFK	380.9760	34.99	0.000		0.000					2.1
17	50 FUNCTION3 PFK	380.9760	34.95	0.000		0.000					1.2
18	50 FUNCTION3 PFK	380.9760	34.85	0.000		0.000					1.1
19	50 FUNCTION3 PFK	380.9760	34.70	0.000		0.000					0.9
20	50 FUNCTION3 PFK	380.9760	34.54	0.000		0.000					1.7
21	50 FUNCTION3 PFK	380.9760	34.49	0.000		0.000					1.1
22	50 FUNCTION3 PFK	380.9760	34.40	0.000		0.000					1.9
23	50 FUNCTION3 PFK	380.9760	34.31	0.000		0.000					1.2
24	50 FUNCTION3 PFK	380.9760	37.93	0.000		0.000					1.3
25	50 FUNCTION3 PFK	380.9760	37.90	0.000		0.000					1.1
26	50 FUNCTION3 PFK	380.9760	37.66	0.000		0.000					1.4
27	50 FUNCTION3 PFK	380.9760	37.53	0.000		0.000					0.5
28	50 FUNCTION3 PFK	380.9760	37.29	0.000		0.000					0.7
29	50 FUNCTION3 PFK	380.9760	37.25	0.000		0.000					0.8
30	50 FUNCTION3 PFK	380.9760	37.05	0.000		0.000					1.2
31	50 FUNCTION3 PFK	380.9760	36.92	0.000		0.000					0.8
32	50 FUNCTION3 PFK	380.9760	36.84	0.000		0.000					1.2
33	50 FUNCTION3 PFK	380.9760	36.77	0.000		0.000					1.5
34	50 FUNCTION3 PFK	380.9760	36.66	0.000		0.000					2.1
35	50 FUNCTION3 PFK	380.9760	36.63	0.000		0.000					2.1
36	50 FUNCTION3 PFK	380.9760	36.56	0.000		0.000					1.0
37	50 FUNCTION3 PFK	380.9760	36.49	0.000		0.000					0.5
38	50 FUNCTION3 PFK	380.9760	36.24	0.000		0.000					1.3
39	50 FUNCTION3 PFK	380.9760	35.98	0.000		0.000					0.9
40	50 FUNCTION3 PFK	380.9760	38.46	0.000		0.000					1.1
41	50 FUNCTION3 PFK	380.9760	38.19	0.000		0.000					0.4
42	50 FUNCTION3 PFK	380.9760	38.15	0.000		0.000					0.4
43	50 FUNCTION3 PFK	380.9760	38.07	0.000		0.000					1.3

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 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
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ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	42.77	0.000							1.4
2	51 FUNCTION4 PFK	430.9728	42.19	0.000							1.8
3	51 FUNCTION4 PFK	430.9728	42.12	0.000							1.5
4	51 FUNCTION4 PFK	430.9728	42.09	0.000							1.3
5	51 FUNCTION4 PFK	430.9728	41.71	0.000							0.5
6	51 FUNCTION4 PFK	430.9728	41.46	0.000							1.2
7	51 FUNCTION4 PFK	430.9728	40.43	0.000							1.4
8	51 FUNCTION4 PFK	430.9728	40.05	0.000							0.7
9	51 FUNCTION4 PFK	430.9728	40.01	0.000							1.5
10	51 FUNCTION4 PFK	430.9728	39.04	0.000							1.2
11	51 FUNCTION4 PFK	430.9728	38.90	0.000							0.7
12	51 FUNCTION4 PFK	430.9728	44.42	0.000							0.7
13	51 FUNCTION4 PFK	430.9728	44.39	0.000							1.3
14	51 FUNCTION4 PFK	430.9728	44.18	0.000							0.7
15	51 FUNCTION4 PFK	430.9728	43.96	0.000							1.8
16	51 FUNCTION4 PFK	430.9728	43.71	0.000							0.6
17	51 FUNCTION4 PFK	430.9728	42.99	0.000							0.8
18	51 FUNCTION4 PFK	430.9728	42.94	0.000							0.6

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	45.73	0.000							2.1
2	52 FUNCTION5 PFK	480.9696	45.44	0.000							1.9
3	52 FUNCTION5 PFK	480.9696	45.21	0.000							2.2
4	52 FUNCTION5 PFK	480.9696	45.10	0.000							0.6
5	52 FUNCTION5 PFK	480.9696	45.01	0.000							2.4
6	52 FUNCTION5 PFK	480.9696	44.97	0.000							1.3
7	52 FUNCTION5 PFK	480.9696	44.94	0.000							0.9
8	52 FUNCTION5 PFK	480.9696	44.85	0.000							0.9
9	52 FUNCTION5 PFK	480.9696	48.88	0.000							0.9
10	52 FUNCTION5 PFK	480.9696	48.84	0.000							1.0
11	52 FUNCTION5 PFK	480.9696	48.77	0.000							1.5
12	52 FUNCTION5 PFK	480.9696	48.73	0.000							0.9
13	52 FUNCTION5 PFK	480.9696	48.65	0.000							1.6
14	52 FUNCTION5 PFK	480.9696	48.13	0.000							0.9
15	52 FUNCTION5 PFK	480.9696	47.96	0.000							0.9
16	52 FUNCTION5 PFK	480.9696	47.89	0.000							0.9
17	52 FUNCTION5 PFK	480.9696	47.86	0.000							0.8
18	52 FUNCTION5 PFK	480.9696	47.52	0.000							1.1
19	52 FUNCTION5 PFK	480.9696	47.19	0.000							1.1
20	52 FUNCTION5 PFK	480.9696	47.11	0.000							0.6
21	52 FUNCTION5 PFK	480.9696	46.97	0.000							0.5
22	52 FUNCTION5 PFK	480.9696	46.74	0.000							1.5
23	52 FUNCTION5 PFK	480.9696	46.30	0.000							1.6
24	52 FUNCTION5 PFK	480.9696	45.87	0.000							1.2
25	52 FUNCTION5 PFK	480.9696	49.04	0.000							1.7

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	26.21	0.000		0.000					45.0
2	53 FUNCTION1 HXCD...	375.8364	25.96	0.000		0.000					9.3

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	22.43	0.000		0.000					7.4
2	54 FUNCTION1 HPCD...	409.7974	21.55	0.000		0.000					7.2

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS6

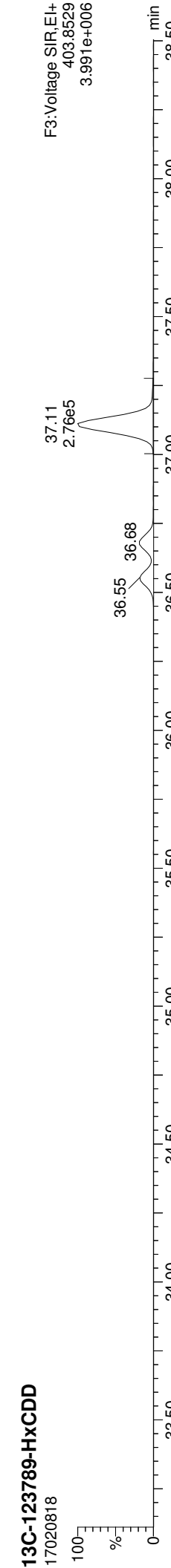
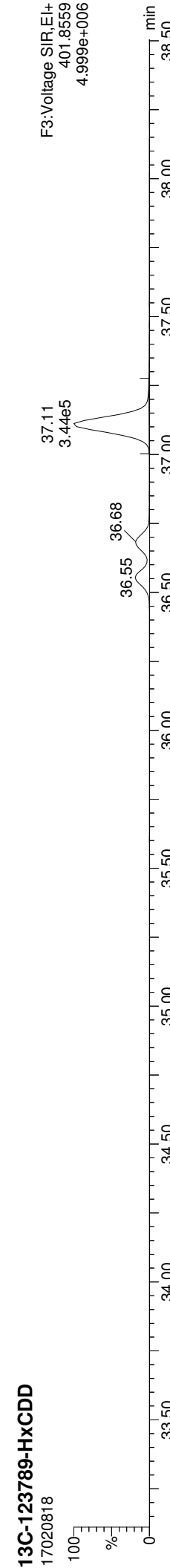
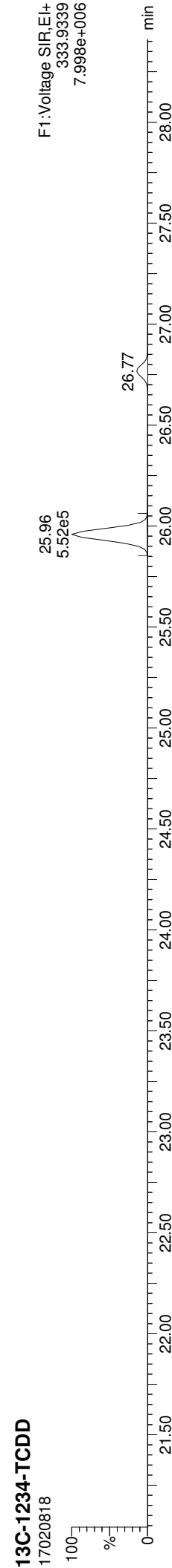
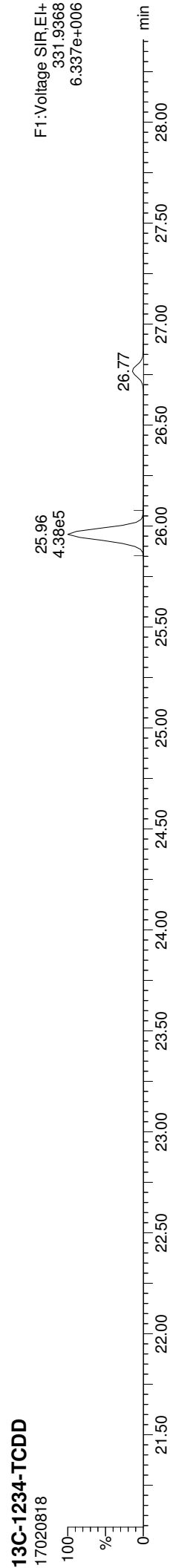
	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

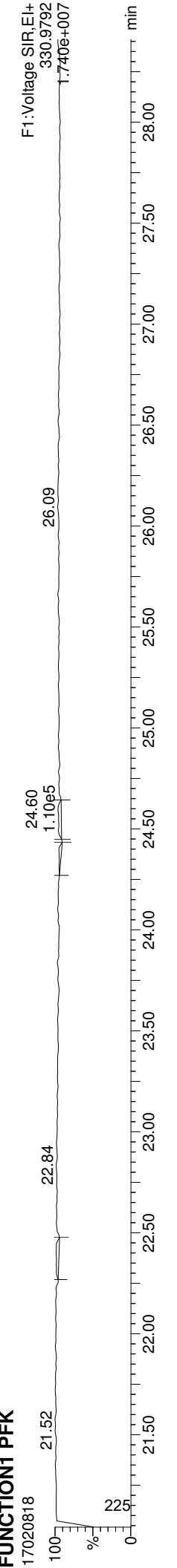
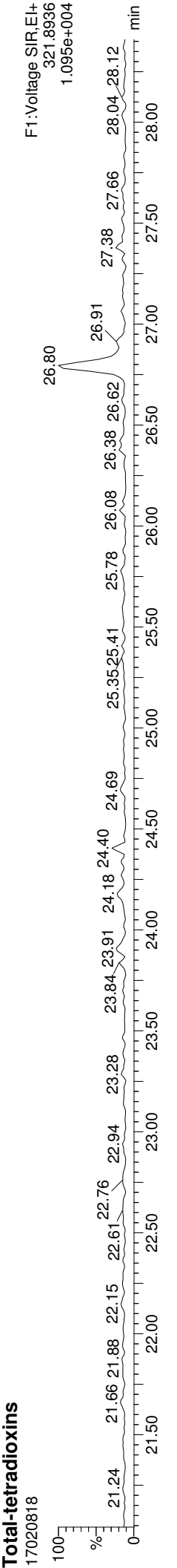
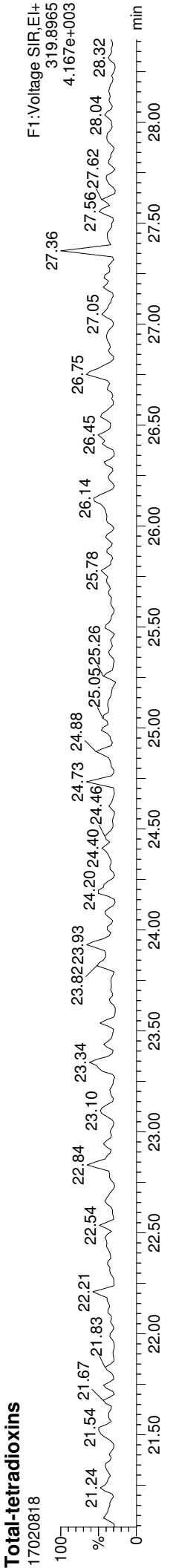
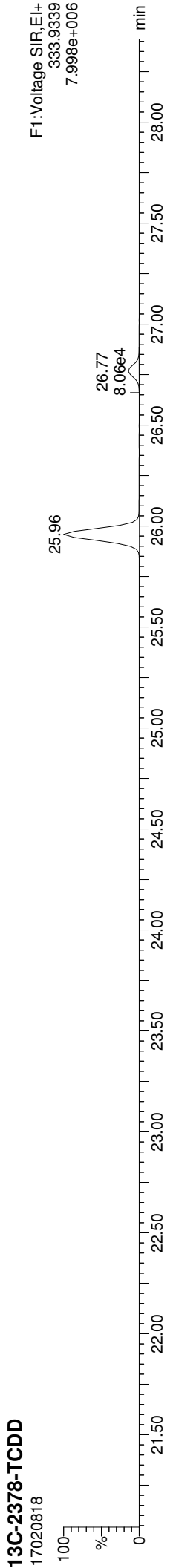
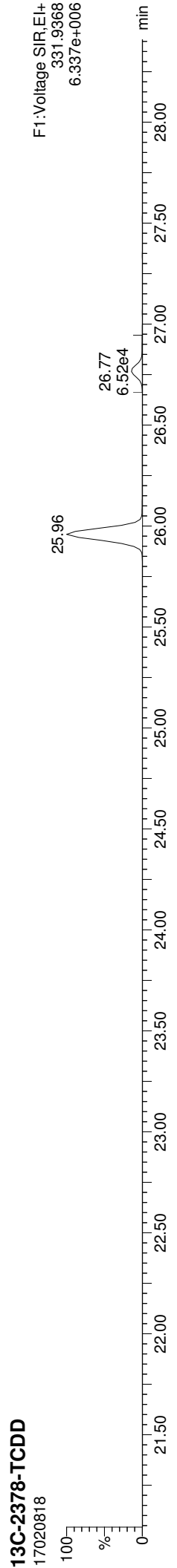
Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK



Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

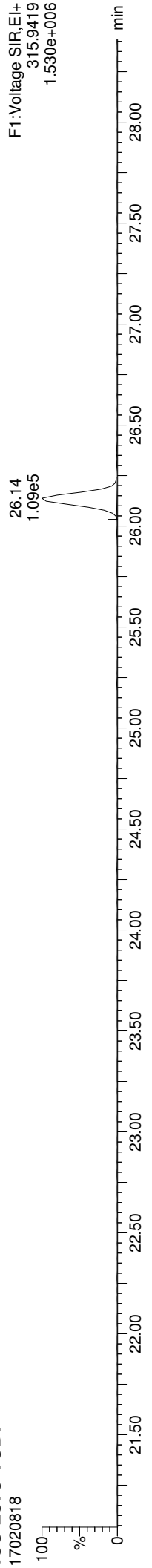
ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK



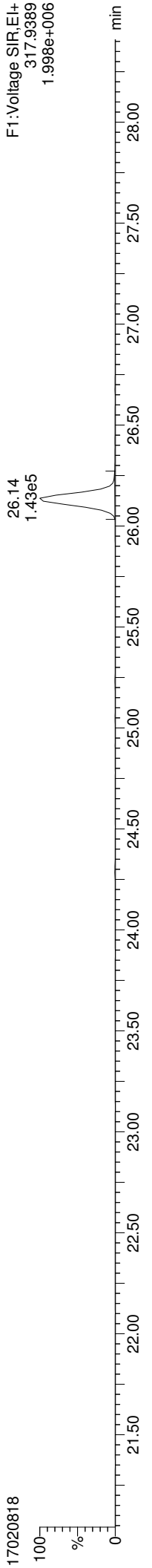
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Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

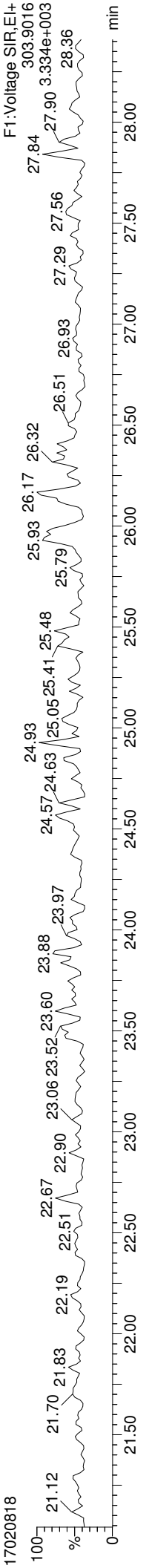
13C-2378-TCDF



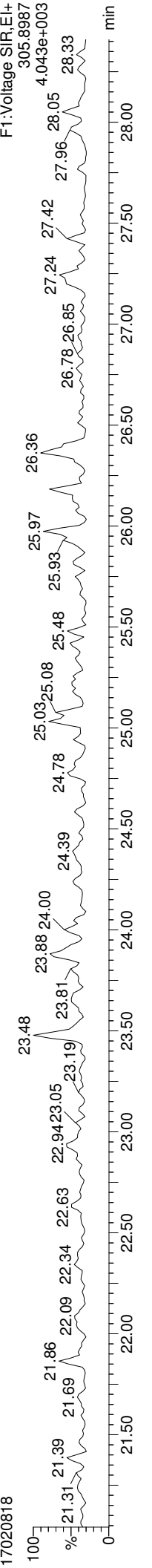
13C-2378-TCDF



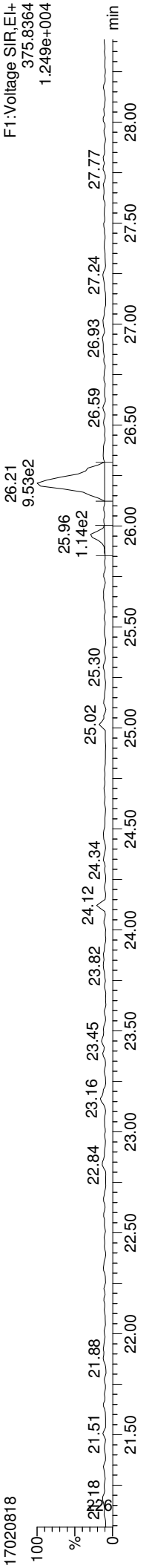
Total-tetrafurans



Total-tetrafurans



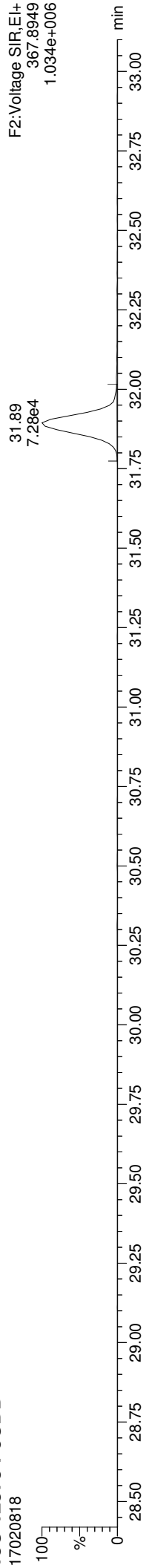
FUNCTION1 HXCDFE



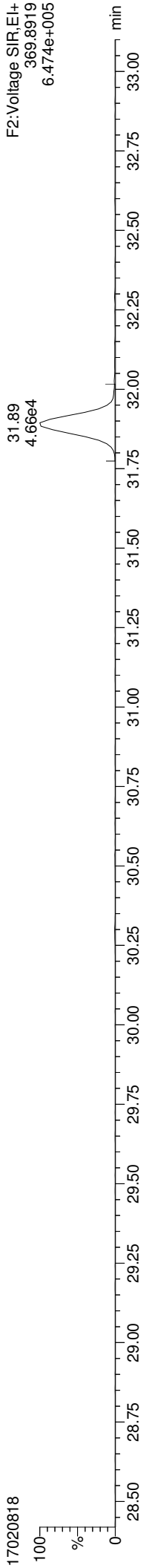
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

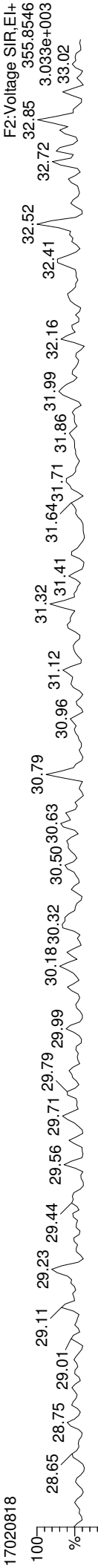
13C-12378-PeCDD



13C-12378-PeCDD



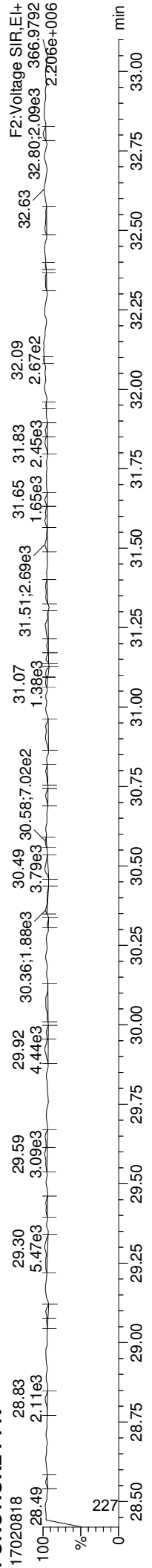
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

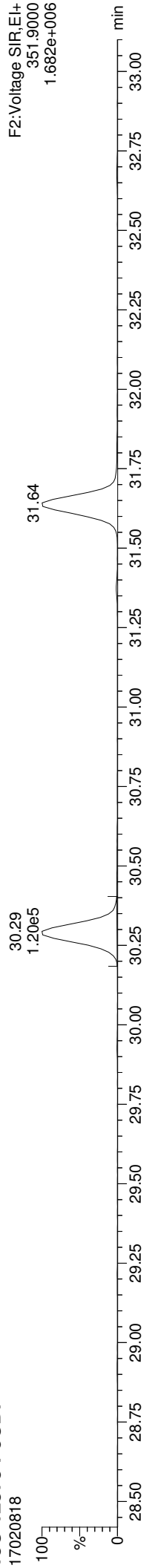


Quantify Sample Report

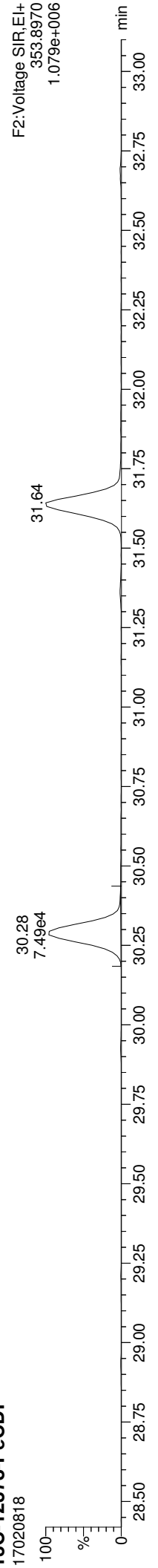
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

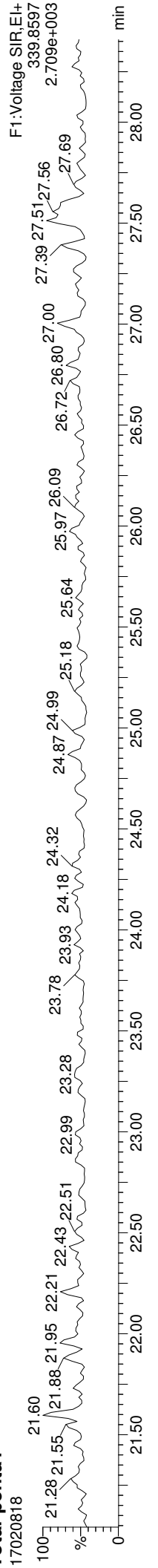
13C-12378-PeCDF



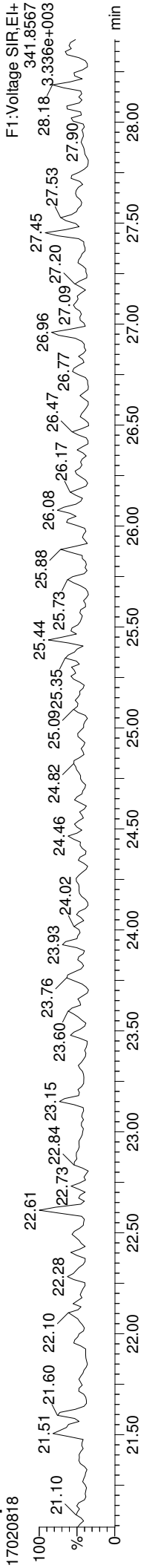
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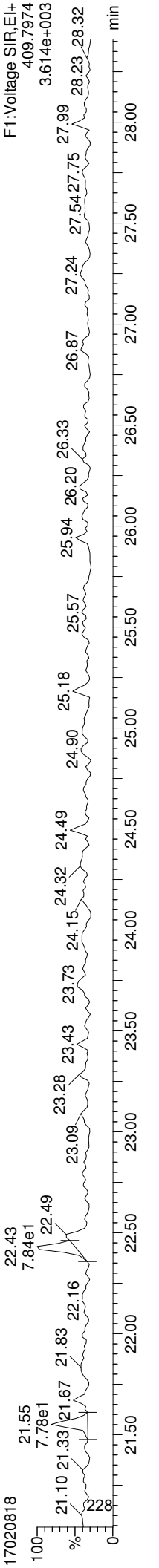
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

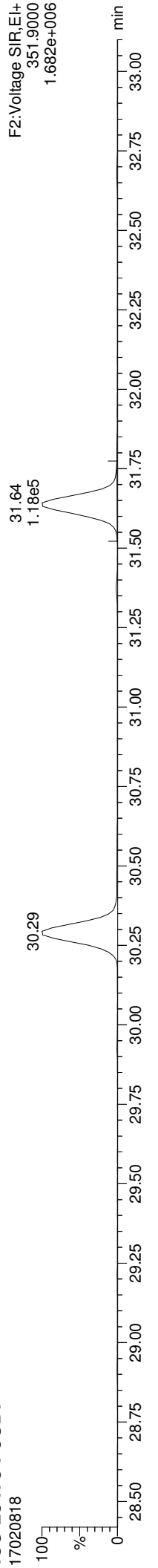


Quantify Sample Report

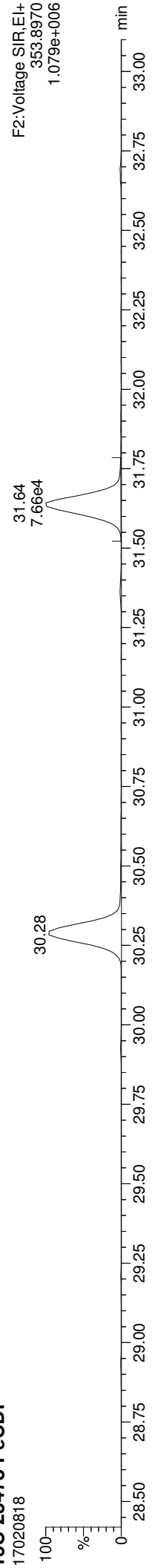
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

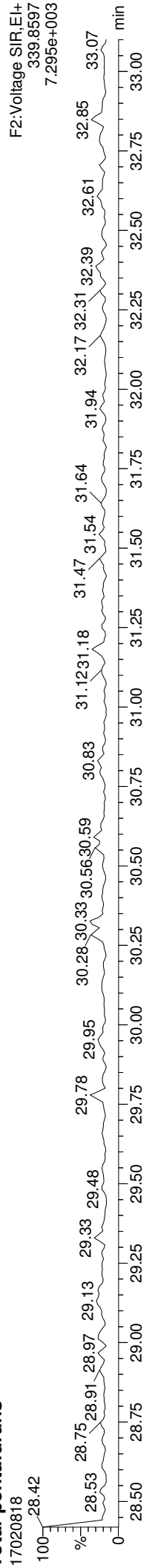
13C-23478-PeCDF



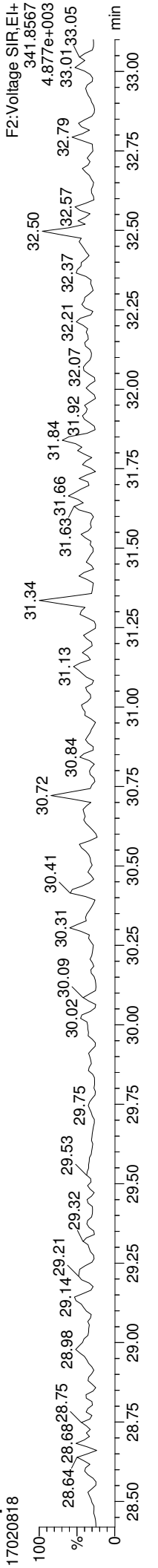
13C-23478-PeCDF



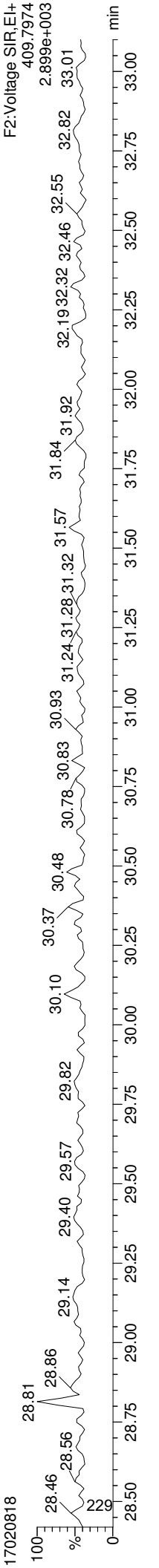
Total-pentafurans



Total-pentafurans



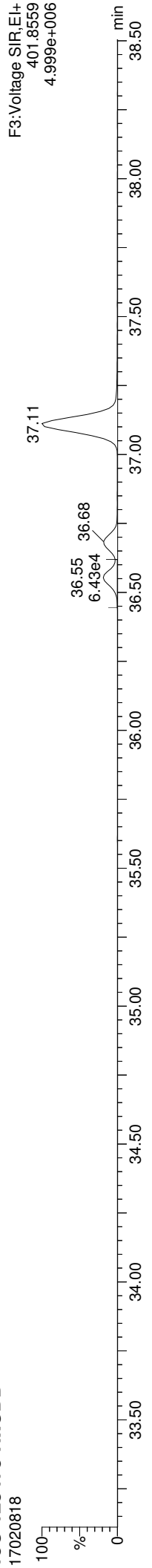
FUNCTION2 HPCDPE



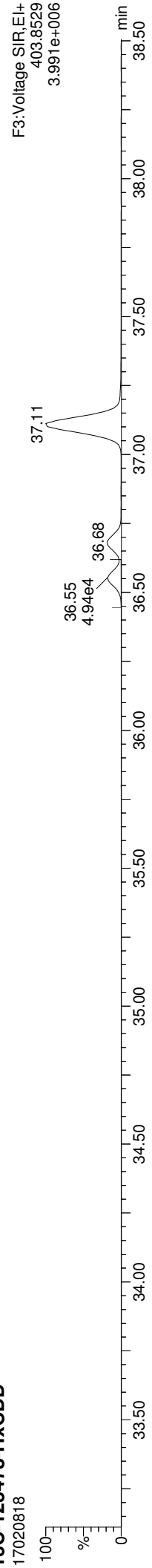
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

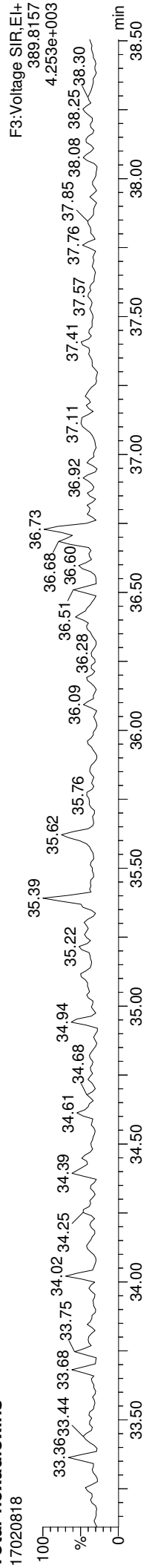
13C-123478-HxCDD



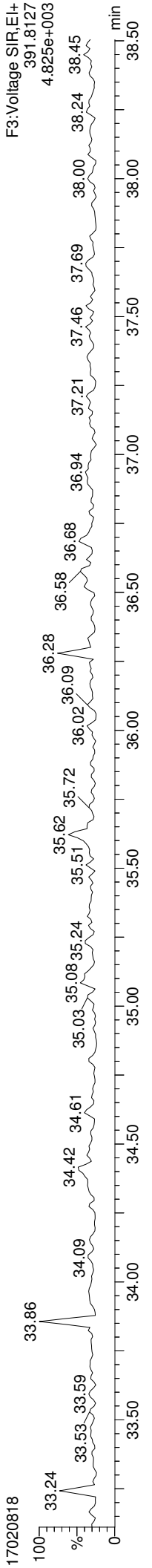
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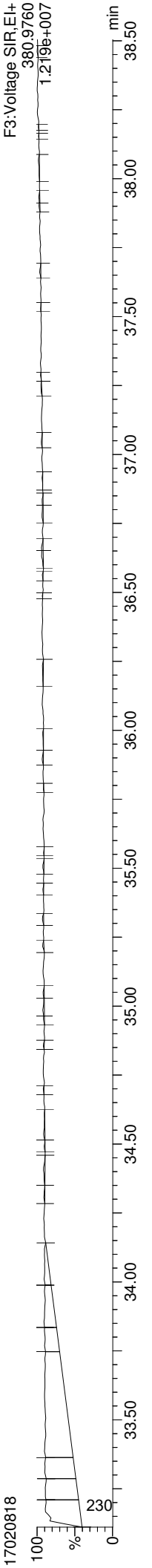
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

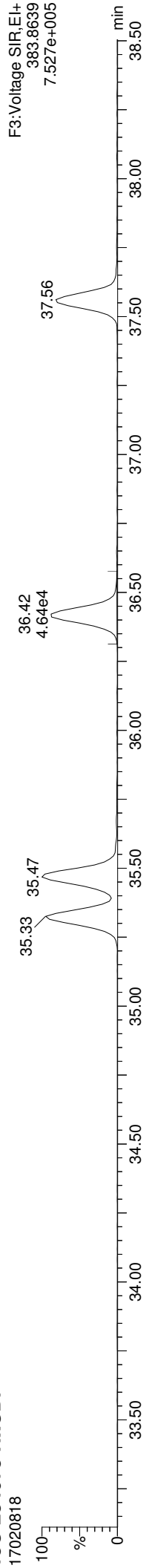


Quantify Sample Report

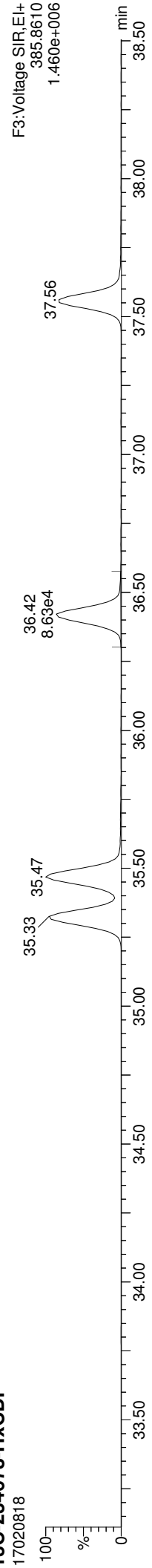
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

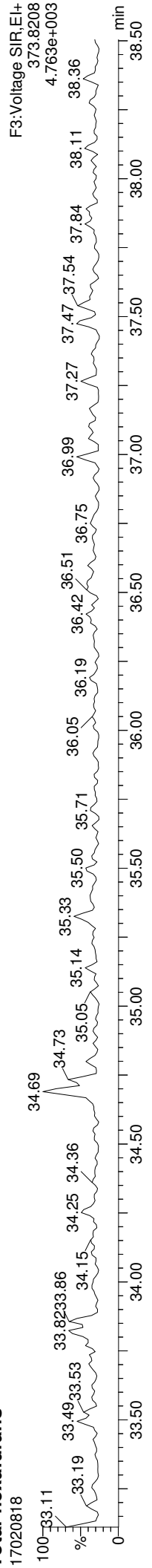
13C-234678-HxCDF



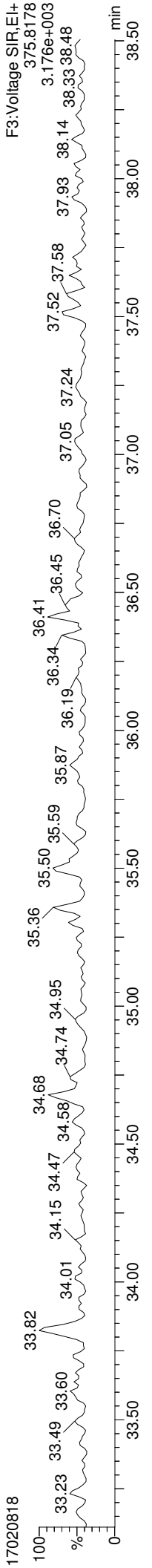
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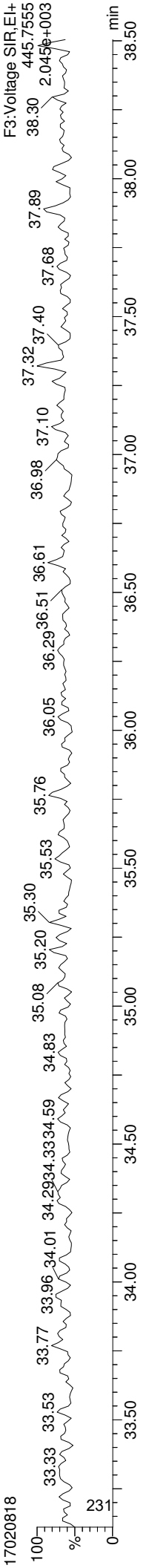
Total-hexafurans



Total-hexafurans

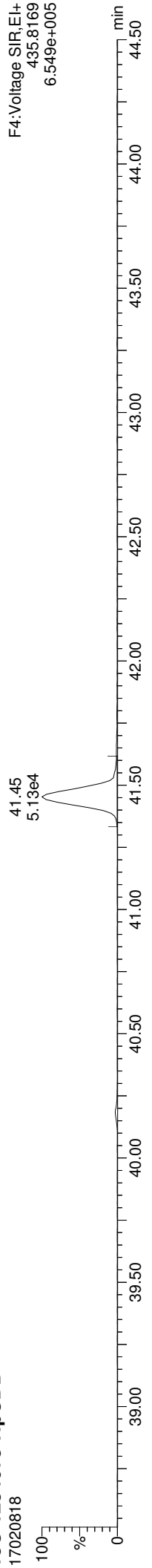


FUNCTION3 OCDPE

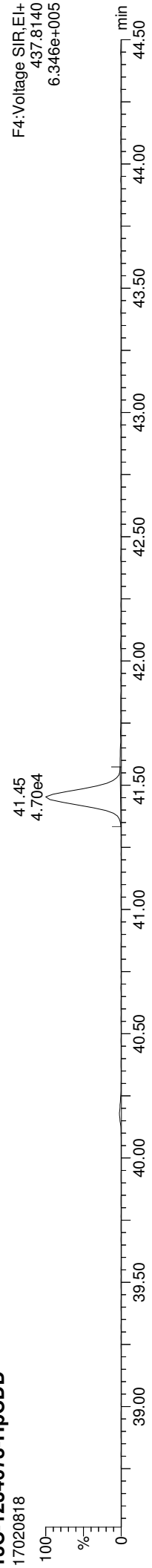


ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

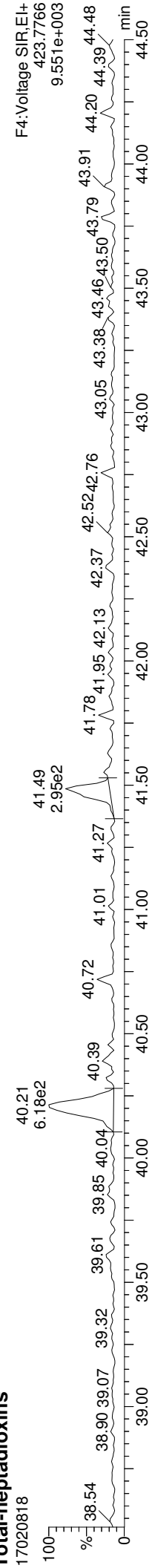
13C-1234678-HpCDD



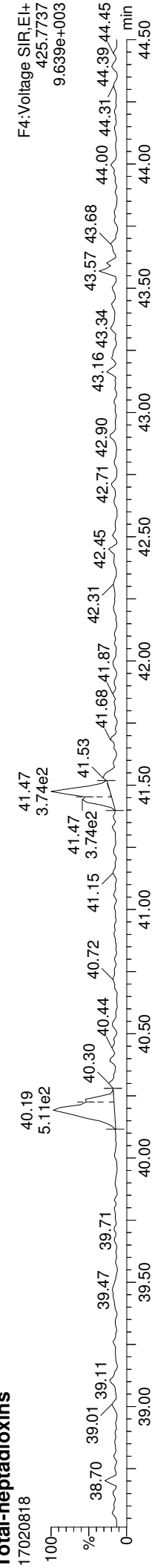
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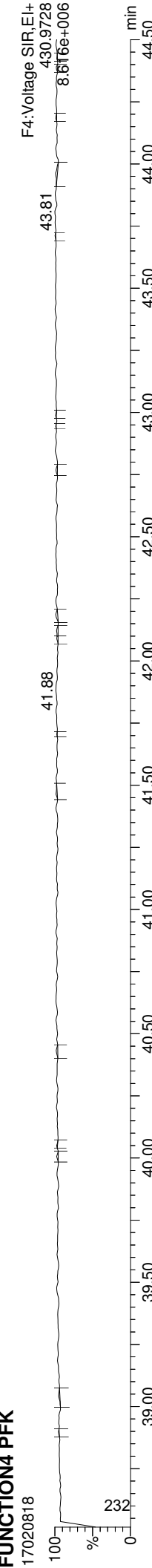
Total-heptadioxins



Total-heptadioxins



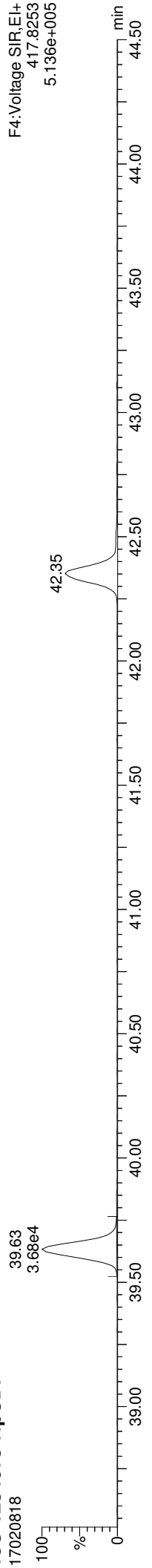
FUNCTION4 PFK



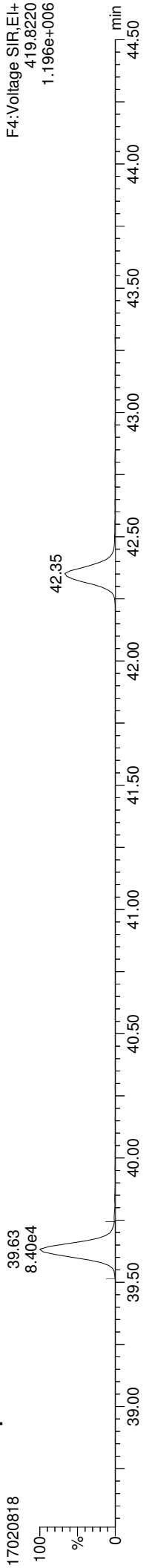
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

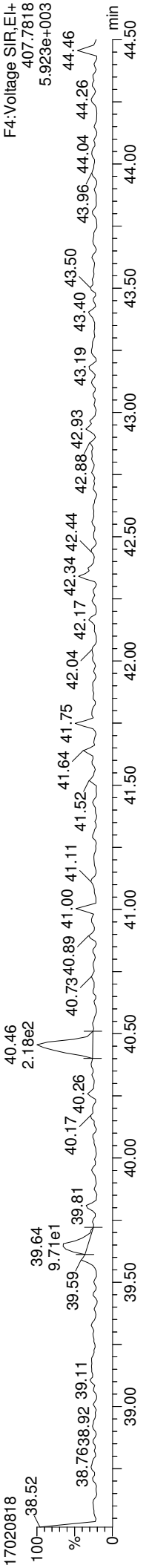
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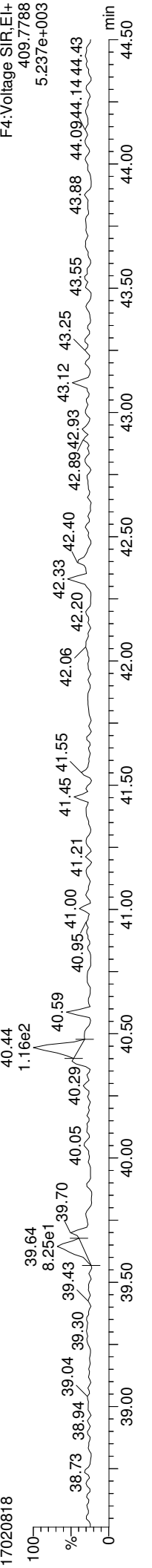
13C-1234678-HpCDF



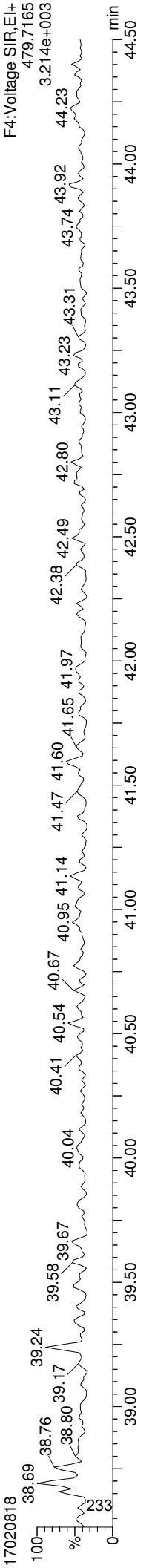
Total-heptafurans



Total-heptafurans



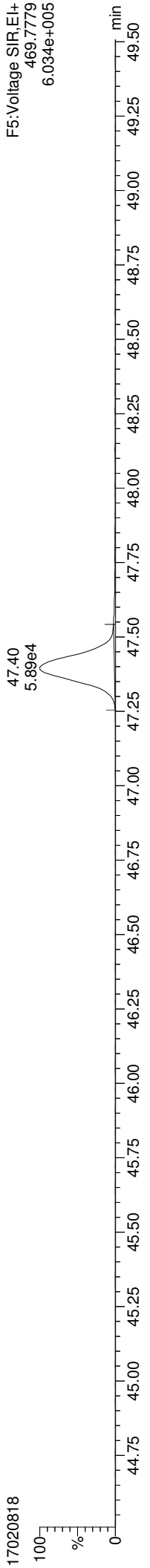
FUNCTION4 NCDPE



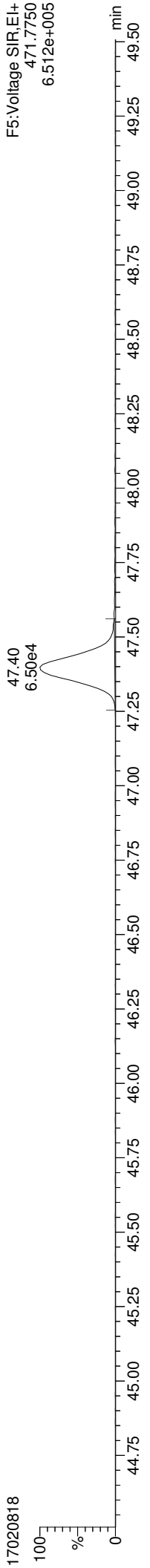
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\1
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

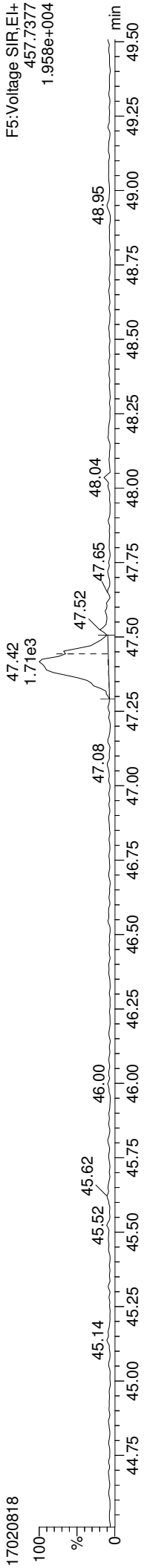
13C-OCDD



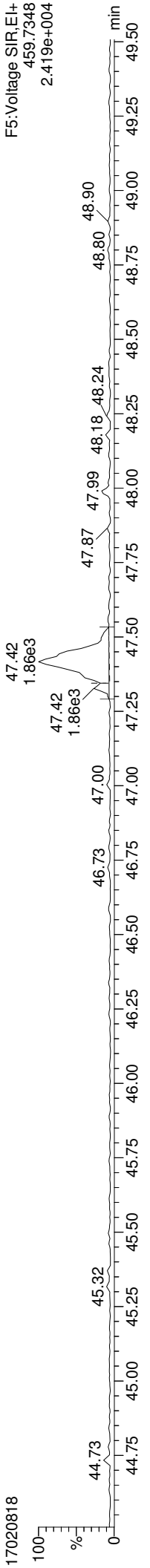
13C-OCDD



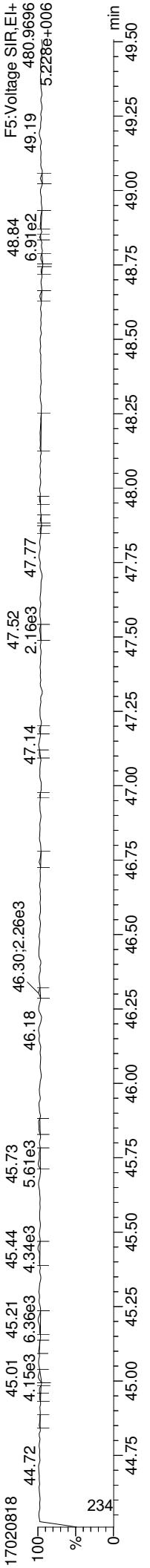
OCDD



OCDD



FUNCTION5 PFK

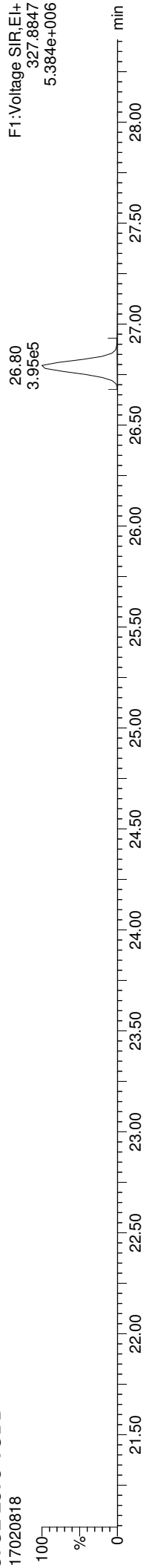


Quantify Sample Report

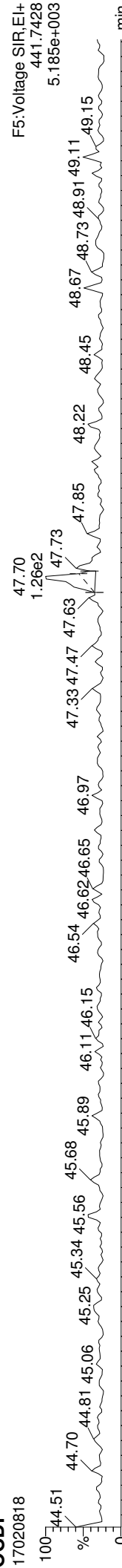
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:42 Pacific Standard Time

ID: 17A0053-12, Name: 17020818, Date: 09-Feb-2017, Time: 01:47:42, Conditions: AUTOSPEC01, User: PK

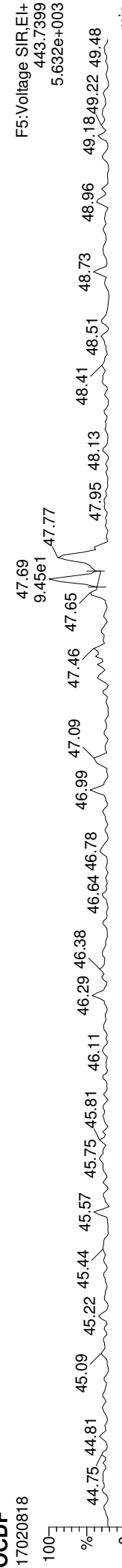
37CL-2378-TCDD



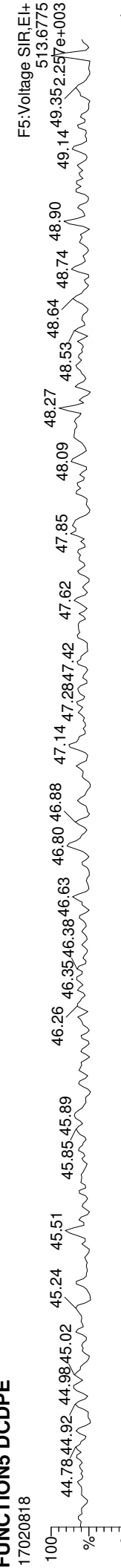
OCDF



OCDF



FUNCTION5 DCDPE





Analytical Resources, Incorporated
Analytical Chemists and Consultants

HRCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A & 1613B

Batch: BFB0538

Tissue Samples

From BFA0657 on 2/22/2017 by NPL

ARI Work Orders:		16K0124, 17A0053					
Matrix (circle one)	Soil	Sediment	Oil				
Extraction Method	Start Date/Time:	End Date/Time:	Tissue				
Soxhlet Sepf Shake out	2/22/17 1200	2/23/17	0600				
Reagents/Equipment Used	NA	ID / Lot Number	Initials				
Balance		24650344	M				
Purified Sand		M 2/24/17					
Toluene		ES024 E005442M					
Hexane		E000029	M				
CH2Cl2		E000333	M				
H2SO4		E004838 / E001660	M				
Ni2SO4		E000908	M				
Glasswool		E000046	M				
(98.2) Hex/DCM		E001539	M				
Basic Silica		E007872	M				
Acid Silica		E007873	M				
0% Silica		E006349	M				
Activated Florisil		E001666	M				
Nonane		E000869	M				
Other (1:1 Hex/DCM)		E001463	M				
Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL	E000841	2/4 ng/mL	7/30/17	M	WV1	2/22/17
OPR	20 uL	E004560	10/50/100 ng/mL	3/20/17	M	WV	2/22/17
QLS Standard	10 uL		0.5/2.5/5 ng/mL				
Clean-up Standard	1.0 mL	E000193	0.8 ng/mL	7/5/17	M	M X2	2/22/17

Lab Number & Container	Sample Name	Sample Vol (mL)	Target/Actual	Roto/Vap	Water Trap Vol (mL)	Final Vol (uL)
16K0124-01RE1 A	PG-TMMS-COC-104	10.03	10.00	45 °C		20
17A0053-01RE1 A	PG-SMA1-1-MMS-170	10.03	10.00	1/2		20
17A0053-04RE1 A	PG-SMA2-1-MMS-170	10.05	10.00	1/2		20
17A0053-05RE1 A	PG-SMA2-2-MMS-170	10.03	10.00	1/2		20
17A0053-06RE1 A	PG-SMA2-3-MMS-170	10.02	10.00	1/2		20
17A0053-07RE1 A	PG-SMA2-4-MMS-170	10.03	10.00	1/2		20
17A0053-08RE1 A	PG-SMA2-5-MMS-170	10.06	10.00	1/2		20
17A0053-09RE1 A	PG-P1-1-MMS-170MS	10.01	10.00	1/2		20
17A0053-11RE1 A	PG-WS-1-MMS-17010	10.08	10.00	1/2		20
Prep Analyst / Date: M 2/22/17						
Lab Number	Sample Name	Sample Vol (mL)	Target/Actual	Roto/Vap	Water Trap Vol (mL)	Final Vol (uL)
BFB0538-BLK1	Blank	10.00	10.00	1/2		20
BFB0538-BS1	LCS	10.00	10.00	1/2		20
Prep Analyst / Date: M 2/22/17						

Verify Client ID	Analyst / Date:
Acid Clean	M 2/22/17
Silica-Florisil Clean	M 2/22/17



Analytical Resources, Incorporated
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A & 1613B

Batch: BFB0538

Tissue Samples

VB Supervisor Review By
2.24.17 Date



ARI Job No.: 16K0124, 17A0053

Client ID: _____

Batch ID: BFB0538

Parameter:

Client Project:

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input checked="" type="checkbox"/> Emulsions (%)= <u>BFB0538 - BIK1 BSI 100% emulsion after water wash. Sample centrifuged then use Na2SO4 breaks up emulsion</u>	<u>M 2/23/17</u>
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<u>16K0124 - OIREIA, 17A0053 = O4REIA, O9REIA = ~1% emulsion</u>	<u>M 2/23/17</u>
<u>USE Na2SO4 to break up emulsion</u>	
<u>Batch BFB0538 = All extracts taken through double Acid silica on columns due to tissue samples</u>	<u>M 2/24/17</u>
<input type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17A0053

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

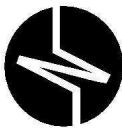
Cleanup Batch: CFB0029

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665A Sulfuric Acid Cleanup

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-GP-1-MUS-170105	17A0053-10	17020816	02/03/2017	
PG-SMA1-2-3-MUS-170105	17A0053-12	17020818	02/03/2017	



CLEANUP BENCH SHEET

CFB0029

Printed: 2/7/2017 12:54:30PM

Cleanup using: HRGCMS - EPA 3665A Sulfuric Acid Cleanup

Matrix: Tissue

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17A0053-12	A	PG-SMA1-2-3-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-11	A	PG-WS-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-10	A	PG-GP-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-09	A	PG-PJ-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-08	A	PG-SMA2-5-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-07	A	PG-SMA2-4-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-06	A	PG-SMA2-3-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-05	A	PG-SMA2-2-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-04	A	PG-SMA2-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-01	A	PG-SMA1-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
16K0124-01	A	PG-T0-MUS-COC-161109	A01	20	20	1613B Dioxin	2/3/2017	JEM	
BFA0657-BS1	-	LCS	-	20	20	-	2/3/2017	JEM	
BFA0657-BLK1	-	Blank	-	20	20	-	2/3/2017	JEM	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17A0053

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Cleanup Batch: CFB0030

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-SMA1-2-3-MUS-170105	17A0053-12	17020818	02/03/2017	
PG-GP-1-MUS-170105	17A0053-10	17020816	02/03/2017	



CLEANUP BENCH SHEET

CFB0030

Printed: 2/7/2017 12:54:46PM

Cleanup using: HRGCMS - EPA 3630C Silica Gel Cleanup

Matrix: Tissue

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17A0053-12	A	PG-SMA1-2-3-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-11	A	PG-WS-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-10	A	PG-GP-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-09	A	PG-PJ-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-08	A	PG-SMA2-5-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-07	A	PG-SMA2-4-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-06	A	PG-SMA2-3-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-05	A	PG-SMA2-2-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-04	A	PG-SMA2-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-01	A	PG-SMA1-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
16K0124-01	A	PG-T0-MUS-COC-161109	A01	20	20	1613B Dioxin	2/3/2017	JEM	
BFA0657-BS1	-	LCS	-	20	20	-	2/3/2017	JEM	
BFA0657-BLK1	-	Blank	-	20	20	-	2/3/2017	JEM	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17A0053

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

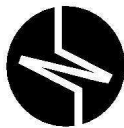
Cleanup Batch: CFB0031

Cleanup Type: Florisil

Cleanup Method: EPA 3620B Florisil Cleanup

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-SMA1-2-3-MUS-170105	17A0053-12	17020818	02/03/2017	
PG-GP-1-MUS-170105	17A0053-10	17020816	02/03/2017	



CLEANUP BENCH SHEET

CFB0031

Matrix: Tissue

Cleanup using: HRGCMS - EPA 3620B Florisil Cleanup

Printed: 2/7/2017 12:54:58PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17A0053-12	A	PG-SMA1-2-3-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-11	A	PG-WS-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-10	A	PG-GP-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-09	A	PG-PJ-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-08	A	PG-SMA2-5-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-07	A	PG-SMA2-4-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-06	A	PG-SMA2-3-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-05	A	PG-SMA2-2-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-04	A	PG-SMA2-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
17A0053-01	A	PG-SMA1-1-MUS-170105	A01	20	20	1613B Dioxin	2/3/2017	JEM	
16K0124-01	A	PG-T0-MUS-COC-161109	A01	20	20	1613B Dioxin	2/3/2017	JEM	
BFA0657-BS1	-	LCS	-	20	20	-	2/3/2017	JEM	
BFA0657-BLK1	-	Blank	-	20	20	-	2/3/2017	JEM	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17A0053

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

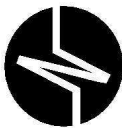
Cleanup Batch: CFB0149

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665A Sulfuric Acid Cleanup

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-WS-1-MUS-170105	17A0053-11RE1	17022414	02/24/2017	
PG-SMA2-5-MUS-170105	17A0053-08RE1	17022412	02/24/2017	
PG-SMA2-4-MUS-170105	17A0053-07RE1	17022411	02/24/2017	
PG-SMA2-3-MUS-170105	17A0053-06RE1	17022410	02/24/2017	
PG-SMA2-2-MUS-170105	17A0053-05RE1	17022409	02/24/2017	
PG-SMA2-1-MUS-170105	17A0053-04RE1	17022408	02/24/2017	
PG-SMA1-1-MUS-170105	17A0053-01RE1	17022407	02/24/2017	
PG-PJ-1-MUS-170105	17A0053-09RE1	17022413	02/24/2017	



CLEANUP BENCH SHEET

CFB0149

Printed: 2/24/2017 1:55:03PM

Cleanup using: HRGCMS - EPA 3665A Sulfuric Acid Cleanup

Matrix: Tissue

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17A0053-11RE1	A	PG-WS-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-09RE1	A	PG-PJ-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-08RE1	A	PG-SMA2-5-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-07RE1	A	PG-SMA2-4-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-06RE1	A	PG-SMA2-3-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-05RE1	A	PG-SMA2-2-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-04RE1	A	PG-SMA2-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-01RE1	A	PG-SMA1-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
16K0124-01RE1	A	PG-T0-MUS-COC-161109	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
BFB0538-BS1	-	LCS	-	20	20	-	2/24/2017	NPL	
BFB0538-BLK1	-	Blank	-	20	20	-	2/24/2017	NPL	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17A0053

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

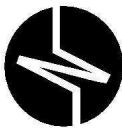
Cleanup Batch: CFB0150

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-PJ-1-MUS-170105	17A0053-09RE1	17022413	02/24/2017	
PG-WS-1-MUS-170105	17A0053-11RE1	17022414	02/24/2017	
PG-SMA2-5-MUS-170105	17A0053-08RE1	17022412	02/24/2017	
PG-SMA2-4-MUS-170105	17A0053-07RE1	17022411	02/24/2017	
PG-SMA2-3-MUS-170105	17A0053-06RE1	17022410	02/24/2017	
PG-SMA2-2-MUS-170105	17A0053-05RE1	17022409	02/24/2017	
PG-SMA2-1-MUS-170105	17A0053-04RE1	17022408	02/24/2017	
PG-SMA1-1-MUS-170105	17A0053-01RE1	17022407	02/24/2017	



CLEANUP BENCH SHEET

CFB0150

Printed: 2/24/2017 1:55:17PM

Cleanup using: HRGCMS - EPA 3630C Silica Gel Cleanup

Matrix: Tissue

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17A0053-11RE1	A	PG-WS-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-09RE1	A	PG-PJ-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-08RE1	A	PG-SMA2-5-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-07RE1	A	PG-SMA2-4-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-06RE1	A	PG-SMA2-3-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-05RE1	A	PG-SMA2-2-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-04RE1	A	PG-SMA2-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-01RE1	A	PG-SMA1-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
16K0124-01RE1	A	PG-T0-MUS-COC-161109	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
BFB0538-BS1	-	LCS	-	20	20	-	2/24/2017	NPL	
BFB0538-BLK1	-	Blank	-	20	20	-	2/24/2017	NPL	



Analytical Resources, Incorporated
Analytical Chemists and Consultants

HRCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A & 1613B

Batch: BFA0657

Tissue Samples

ARI Work Orders: 16K0124, 17A0053	Soil	Sediment	Oil	Tissue
Extraction Method	Start Date/Time: 1/31/17	1450	End Date/Time:	2/1/17 0900
Soxhlet Sepf Shake out				

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Balance		B146462614	JM	1/31/17
Purified Sand	X			
Toluene	X			
Hexane		F00029	JM	2/2/17
CH2Cl2		E006716	JM	2/3/17
H2SO4		F004935	JM/M	2/2/17
Na2SO4		F00030	JM	1/31/17
Glasswool		E001046	JM/M	2/2/17
(98:2) Hex/DCM		F000240	JM	2/3/17
Basic Silica		E002872	JM	2/3/17
Acid Silica		E006730	JM	2/3/17
0% Silica		E006319	JM	2/3/17
Activated Florisil		E001666	JM	2/3/17
Nonane		E000869	M	2/1/17
Other (1:1 Hexanes:DCM)		F000224	JM	1/30/17

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL	F000841	2/4 ng/mL	7/30/17	JM	M	1/31/17
OPR	20 uL	E004566	10/50/100 ng/mL	3/20/17	JM	M	1/31/17
QLS Standard	10 uL		0.5/2.5/5 ng/mL				
Clean-up Standard	1.0 mL	F000193	0.8 ng/mL	7/5/17	JM	M	2/3/17

Lab Number & Container	Sample Name	Sample Vol (mL)	Target/Actual	RotoVap	Water Trap Vol (mL)	Final Vol (uL)
16K0124-01 A	RG-SMA2-1-SM-S-170	(10.00)	10.56g	1 ②		20
17A0053-01 A	RG-SMA2-1-SM-S-170	(10.00)	10.36g	1 ②		20
17A0053-04 A	RG-SMA2-1-SM-S-170	(10.00)	10.36g	1 ②		20
17A0053-05 A	RG-SMA2-2-SM-S-170	(10.00)	10.05g	1 ②		20
17A0053-06 A	RG-SMA2-3-SM-S-170	(10.00)	10.44g	1 ②		20
17A0053-07 A	RG-SMA2-4-SM-S-170	(10.00)	10.23g	1 ②		20
17A0053-08 A	RG-SMA2-5-SM-S-170	(10.00)	10.47g	1 ②		20
17A0053-09 A	RG-SMA2-6-SM-S-170	(10.00)	10.80g	1 ②		20
17A0053-10 A	RG-SMA2-7-SM-S-170	(10.00)	10.55g	1 ②		20
17A0053-11 A	RG-SMA2-8-SM-S-170	(10.00)	10.23g	1 ②		20
17A0053-12 A	RG-SMA2-9-SM-S-170	(10.00)	10.20g	1 ②		20
Prep Analyst / Date:						
Lab Number	Sample Name	Sample Vol (mL)	Target/Actual	RotoVap	Water Trap Vol (mL)	Final Vol (uL)
BFA0657-BLK1	Blank	(10.00)	10.19g	1 ②		20
BFA0657-BS1	LCS	(10.00)	10.35g	1 ②		20
Prep Analyst / Date:						

Verify Client ID	Analyst / Date	Witness	Date
Acid Clean	JM	JM	1/31/17
Silica-Florisil Clean	JM/M	M	2/2/17
	JM	JM	2/5/17

Supervisor Review By: *[Signature]* Date: 2/1/17



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Dioxin Extraction Laboratory - Glassware

Batch BFA0657

ARI Sample ID:

Client Sample ID:

Client Project ID:

ARI Analyst JM

ARI Sample ID	300 mL Flat Bottom	Small Soxhlet	Large Soxhlet	250 mL Beaker	Funnel	Column	Florisil Column	Turbo Tube	Sep Funnel	Erlenmeyer Flask	Centrifuge Bottle	Turbo-Vap	Vortex Mixer	Heating Mantle
BLK1-BFA0657	45/46	L10		194	27/114	205	3	45	27			4	4	B1
B51-BFA0657	72/77	L60		L10	64/115	217	108	39	37			4	4	B2
16K0124 - 01A	20/22	G9		190	106/116	121	104	2	8			4	4	B3
17A0053 - 01A	59/23	47		240	29/111	222	139	33	25			4	4	B4
-04A	45/56	62		220	67/118	170	114	47	33			4	4	B5
-05A	72/79	L8		7	37/111	177	L9	36-44	31			4	4	B6
-06A	20/21	46		L7	13/84	202	132	36	22			4	4	C1
-07A	59/30	56		206	35/94	L5	L3	46	24			4	4	C2
-08A	5/69	L6		20	71/113	L4	135	20	35			4	4	C3
-09A	5/144	82		23	39/61	184	145	23	21			4	4	C4
-10A	36/44	83		141	63/95	204	91	16	31			4	4	C5
-11A	73/73	L7		L5	45/14	96	L5	40	26			4	4	C6
-12A	86/46	79		22	76/96	176	81	5	29			4	4	D1



Extraction Parameter: Dioxin

Element Batch: BFA0657 Work Order(s): 16K0124 ^{JM} ~~JA~~, 17A0033

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
See glassware tracking sheet. I used multiple round bottoms of the same number on the Soxhlet extraction phase for different samples	JM 1/31/17
BFA0657 - BK/BS = samples centrifuged due to emulsion, then breaks up with Na2SO4 along with 17A0033 7509	M 2/2/17
BFA0657 - JM All samples were column cleaned with 2 scoops of acid silica gel	JM 2/3/17
<input type="checkbox"/> Share Samples Y/N	
<input type="checkbox"/> Multiple Jars Y/N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 17A0053

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

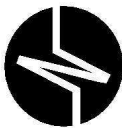
Cleanup Batch: CFB0151

Cleanup Type: Florisil

Cleanup Method: EPA 3620B Florisil Cleanup

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARE	OBSERVATIONS
PG-SMA2-1-MUS-170105	17A0053-04RE1	17022408	02/24/2017	
PG-SMA1-1-MUS-170105	17A0053-01RE1	17022407	02/24/2017	
PG-SMA2-2-MUS-170105	17A0053-05RE1	17022409	02/24/2017	
PG-SMA2-3-MUS-170105	17A0053-06RE1	17022410	02/24/2017	
PG-SMA2-4-MUS-170105	17A0053-07RE1	17022411	02/24/2017	
PG-SMA2-5-MUS-170105	17A0053-08RE1	17022412	02/24/2017	
PG-WS-1-MUS-170105	17A0053-11RE1	17022414	02/24/2017	
PG-PJ-1-MUS-170105	17A0053-09RE1	17022413	02/24/2017	



CLEANUP BENCH SHEET

CFB0151

Matrix: Tissue

Cleanup using: HRGCMS - EPA 3620B Florisil Cleanup

Printed: 2/24/2017 1:55:27PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
17A0053-11RE1	A	PG-WS-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-09RE1	A	PG-PJ-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-08RE1	A	PG-SMA2-5-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-07RE1	A	PG-SMA2-4-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-06RE1	A	PG-SMA2-3-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-05RE1	A	PG-SMA2-2-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-04RE1	A	PG-SMA2-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
17A0053-01RE1	A	PG-SMA1-1-MUS-170105	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
16K0124-01RE1	A	PG-T0-MUS-COC-161109	A 03	20	20	1613B Dioxin	2/24/2017	NPL	
BFB0538-BS1	-	LCS	-	20	20	-	2/24/2017	NPL	
BFB0538-BLK1	-	Blank	-	20	20	-	2/24/2017	NPL	



Blank

Form I
METHOD BLANK DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	Tissue	Laboratory ID:	<u>BFA0657-BLK1</u>
Sampled:	<u>N/A</u>	File ID:	<u>17020804</u>
Solids Wt%:		Prepared:	<u>01/31/17 14:50</u>
Result Basis:	<u>Dry</u>	Analyzed:	<u>02/08/17 13:11</u>
Batch:	<u>BFA0657</u>	Preparation:	<u>EPA 1613</u>
		Initial/Final:	<u>10 g / 20 uL</u>
		Sequence:	<u>SFB0085</u>
		Calibration:	<u>AA00071</u>
		Instrument:	<u>AUTOSPEC01</u>
		Column:	<u>RTX-Dioxin2</u>

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	1.065	0.655-0.886		1.00	0.0561	ng/kg	EMPC, J
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.053	1.00	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.039	5.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.038	5.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	1.714	1.318-1.783		5.00	0.0363	ng/kg	J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.432	1.054-1.426		5.00	0.0450	ng/kg	EMPC, J
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.035	5.00	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.036	5.00	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.133	1.054-1.426		5.00	0.0754	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.050	5.00	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.052	5.00	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.053	5.00	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.204	0.893-1.208		5.00	0.0997	ng/kg	J
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.104	5.00	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.884	0.893-1.208		5.00	0.190	ng/kg	EMPC, J
39001-02-0	OCDF	1	0.548	0.757-1.024		10.0	0.287	ng/kg	EMPC, J
3268-87-9	OCDD	1	0.850	0.757-1.024		10.0	1.82	ng/kg	J

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	0.110	ng/kg	
41903-57-5	Total TCDD	1	0.000			1.00	ND	ng/kg	
30402-15-4	Total PeCDF	1	0.000			1.00	ND	ng/kg	
36088-22-9	Total PeCDD	1	0.000			1.00	0.0363	ng/kg	
55684-94-1	Total HxCDF	1	0.000			1.00	0.186	ng/kg	
34465-46-8	Total HxCDD	1	0.000			1.00	ND	ng/kg	
38998-75-3	Total HpCDF	1	0.000			1.00	0.0997	ng/kg	
37871-00-4	Total HpCDD	1	0.000			1.00	0.344	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.057
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.102



Blank

Form I
METHOD BLANK DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	Tissue	Laboratory ID:	<u>BFA0657-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>01/31/17 14:50</u>
Solids Wt%:		Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SFB0085</u>
Batch:	<u>BFA0657</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>17020804</u>
		Analyzed:	<u>02/08/17 13:11</u>
		Initial/Final:	<u>10 g / 20 uL</u>
		Calibration:	<u>AA00071</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF	1	0.777	0.655-0.886		96.9	24 - 169 %	
13C12-2,3,7,8-TCDD	1	0.783	0.655-0.886		103	25 - 164 %	
13C12-1,2,3,7,8-PeCDF	1	1.555	1.318-1.783		107	24 - 185 %	
13C12-2,3,4,7,8-PeCDF	1	1.594	1.318-1.783		110	21 - 178 %	
13C12-1,2,3,7,8-PeCDD	1	1.576	1.318-1.783		114	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF	1	0.518	0.434-0.587		86.2	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF	1	0.516	0.434-0.587		88.4	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF	1	0.531	0.434-0.587		90.4	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF	1	0.522	0.434-0.587		96.1	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD	1	1.275	1.054-1.426		95.3	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD	1	1.250	1.054-1.426		92.4	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF	1	0.449	0.374-0.506		82.9	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF	1	0.449	0.374-0.506		100	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1	1.030	0.893-1.208		99.8	23 - 140 %	
13C12-OCDD	1	0.898	0.757-1.024		98.3	17 - 157 %	
37C14-2,3,7,8-TCDD	1	328.000			106	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF	26.168	1.002	3.35e2	3.14e2	0.924	1.065	0.770	940	1190	5.98e3	4.97e3	6.4	YES	0.028
12378-PeCDF				0.954			1.550	955	1162					
23478-PeCDF				0.966			1.550	955	1162					
123478-HxCDF	35.336	1.001	2.55e2	1.78e2	1.141	1.432	1.240	949	807	5.94e3	5.04e3	6.3	YES	0.023
234678-HxCDF				1.181			1.240	949	807					
123678-HxCDF				1.089			1.240	949	807					
123789-HxCDF	37.561	1.001	3.25e2	2.87e2	1.110	1.133	1.240	949	807	7.11e3	6.68e3	7.5	NO	0.038
1234678-HpCDF	39.633	1.000	4.54e2	3.77e2	1.267	1.204	1.050	1252	1685	5.94e3	5.32e3	4.7	NO	0.050
1234789-HpCDF				1.295			1.050	1252	1685					
OCDF	47.705	1.006	4.79e2	8.74e2	1.067	0.548	0.890	659	923	5.92e3	1.17e4	9.0	YES	0.144
2378-TCDD				1.150			0.770	1457	714					
12378-PeCDD	31.883	1.000	1.71e2	9.99e1	1.017	1.714	1.550	1240	548	4.38e3	2.35e3	3.5	NO	0.018
123478-HxCDD				1.017			1.240	804	1003					
123678-HxCDD				0.964			1.240	804	1003					
123789-HxCDD				0.948			1.240	804	1003					
1234678-HpCDD	41.474	1.001	5.58e2	6.32e2	1.051	0.884	1.050	1281	1224	9.17e3	8.40e3	7.2	YES	0.095
OCDD	47.418	1.000	3.80e3	4.47e3	1.030	0.850	0.890	556	511	3.95e4	4.55e4	71.0	NO	0.910
13C-2378-TCDF	26.123	1.007	1.09e6	1.41e6	1.515	0.777	0.770	9324	4393	1.57e7	2.03e7	1687.0	NO	96.915
13C-12378-PeCDF	30.272	1.167	1.41e6	9.07e5	1.276	1.555	1.550	3719	3906	2.09e7	1.33e7	5632.1	NO	106.587
13C-23478-PeCDF	31.620	1.219	1.45e6	9.10e5	1.257	1.594	1.550	3719	3906	2.15e7	1.36e7	5784.9	NO	110.245
13C-123478-HxCDF	35.303	0.952	5.76e5	1.11e6	1.431	0.518	0.510	4928	3381	8.71e6	1.68e7	1768.2	NO	86.193
13C-123678-HxCDF	35.457	0.956	6.39e5	1.24e6	1.552	0.516	0.510	4928	3381	9.41e6	1.81e7	1910.3	NO	88.387
13C-234678-HxCDF	36.399	0.981	5.79e5	1.09e6	1.349	0.531	0.510	4928	3381	8.54e6	1.63e7	1733.2	NO	90.424
13C-123789-HxCDF	37.539	1.012	5.02e5	9.61e5	1.111	0.522	0.510	4928	3381	7.39e6	1.42e7	1500.5	NO	96.146
13C-1234678-HpCDF	39.622	1.068	4.08e5	9.08e5	1.160	0.449	0.440	2353	2142	5.67e6	1.30e7	2409.2	NO	82.866
13C-1234789-HpCDF	42.351	1.142	3.22e5	7.16e5	0.758	0.449	0.440	2353	2142	4.05e6	8.93e6	1720.2	NO	99.985
13C-1234-TCDD	25.944	0.000	7.50e5	9.53e5	1.000	0.788	0.770	3098	1541	1.10e7	1.38e7	3545.2	NO	100.000
13C-2378-TCDD	26.750	1.031	6.75e5	8.62e5	0.872	0.783	0.770	3098	1541	9.39e6	1.21e7	3030.6	NO	103.467
13C-12378-PeCDD	31.872	1.229	8.98e5	5.70e5	0.754	1.576	1.550	2147	1651	1.34e7	8.46e6	6220.2	NO	114.246
13C-123478-HxCDD	36.542	0.985	8.09e5	6.35e5	1.106	1.275	1.240	2726	1895	1.20e7	9.37e6	4406.2	NO	95.334
13C-123678-HxCDD	36.662	0.988	8.19e5	6.55e5	1.165	1.250	1.240	2726	1895	1.21e7	9.74e6	4428.2	NO	92.379
13C-1234678-HpCDD	41.452	1.117	6.05e5	5.87e5	0.872	1.030	1.050	2831	2087	8.05e6	7.72e6	2845.2	NO	99.819
13C-OCDD	47.400	1.278	8.35e5	9.30e5	0.655	0.898	0.890	1458	1582	8.56e6	9.53e6	5868.9	NO	196.634
13C-123789-HxCDD	37.101	0.000	7.64e5	6.06e5	1.000	1.260	1.240	2726	1895	1.09e7	8.65e6	4009.6	NO	100.000
Total-tetrafurans			6.06e2		0.924			940		9.80e3				0.055

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170208D.d
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			0.00e0					542		0.00e0				
Total-pentafurans			0.00e0		0.960			955		0.00e0				0.093
Total-hexafurans			9.22e2		1.130			949		2.25e4				0.050
Total-heptafurans			4.54e2		1.281			1252		5.94e3				0.342
Total-Furans			2.46e3		1.100			940		4.42e4				
Total-tetradioxins			0.00e0		1.150			1457		0.00e0				0.018
Total-pentadioxins			1.71e2		1.017			1240		4.38e3				
Total-hexadioxins			0.00e0		0.977			804		0.00e0				0.172
Total-heptadioxins			1.15e3		1.051			1281		1.67e4				1.100
Total-Dioxins			5.12e3		1.025			1457		6.05e4				1.442
Total-TEQ			7.58e3					1457		1.05e5				42.421
37CL-2378-TCDD	26.780	1.032	7.75e5		1.073			1276		1.11e7		8681.7		
FUNCTION1 PFK			7.28e5					831244		9.38e6				0.000
FUNCTION2 PFK			3.50e5					221761		5.45e6				0.000
FUNCTION3 PFK			4.30e5					616031		1.01e7				0.000
FUNCTION4 PFK			3.76e6					428184		3.43e7				
FUNCTION5 PFK			5.77e5					330458		1.96e7				
FUNCTION1 HXCD...			1.55e2					608		3.89e3				0.000
FUNCTION1 HPCD...			2.71e2					539		4.86e3				0.000
FUNCTION2 HPCD...			8.49e1					498		1.83e3				0.000
FUNCTION3 OCDPE			0.00e0					494		0.00e0				0.000
FUNCTION4 NCDPE			9.71e1					813		2.30e3				0.000
FUNCTION5 DCDPE			9.77e1					724		3.39e3				0.000

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	26.17	648.676	0.924	0.028	0.024	1.07	0.77	YES	6.4
2	35 Total-tetrafurans	303.9016	25.96	620.619	0.924	0.027		0.78	0.77	NO	4.1

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	4 123478-HxCDF	373.8208	35.34	433.621	1.141	0.023	0.021	1.43	1.24	YES	6.3
2	38 Total-hexafurans	373.8208	33.59	374.146	1.130	0.020		0.88	1.24	YES	3.4
3	38 Total-hexafurans	373.8208	37.59	249.304	1.130	0.013		2.01	1.24	YES	6.5
4	7 123789-HxCDF	373.8208	37.56	612.111	1.110	0.038	0.038	1.13	1.24	NO	7.5

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	8 1234678-HpCDF	407.7818	39.63	830.829	1.267	0.050	0.050	1.20	1.05	NO	4.7

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	26.17	648.676	0.924	0.028	0.024	1.07	0.77	YES	6.4
2	35 Total-tetrafurans	303.9016	25.96	620.619	0.924	0.027		0.78	0.77	NO	4.1
3	4 123478-HxCDF	373.8208	35.34	433.621	1.141	0.023	0.021	1.43	1.24	YES	6.3
4	38 Total-hexafurans	373.8208	33.59	374.146	1.130	0.020		0.88	1.24	YES	3.4
5	38 Total-hexafurans	373.8208	37.59	249.304	1.130	0.013		2.01	1.24	YES	6.5
6	7 123789-HxCDF	373.8208	37.56	612.111	1.110	0.038	0.038	1.13	1.24	NO	7.5
7	8 1234678-HpCDF	407.7818	39.63	830.829	1.267	0.050	0.050	1.20	1.05	NO	4.7
8	10 OCDF	441.7428	47.70	1353.318	1.067	0.144	0.108	0.55	0.89	YES	9.0

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	12 12378-PeCDD	355.8546	31.88	271.176	1.017	0.018	0.018	1.71	1.55	NO	3.5

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	44 Total-heptadioxins	423.7766	40.20	963.293	1.051	0.077		1.57	1.05	YES	5.9
2	16 1234678-HpCDD	423.7766	41.47	1190.124	1.051	0.095	0.087	0.88	1.05	YES	7.2

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	12 12378-PeCDD	355.8546	31.88	271.176	1.017	0.018	0.018	1.71	1.55	NO	3.5
2	44 Total-heptadioxins	423.7766	40.20	963.293	1.051	0.077		1.57	1.05	YES	5.9
3	16 1234678-HpCDD	423.7766	41.47	1190.124	1.051	0.095	0.087	0.88	1.05	YES	7.2
4	17 OCDD	457.7377	47.42	8272.017	1.030	0.910	0.910	0.85	0.89	NO	71.0

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	26.17	648.676	0.924	0.028	0.024	1.07	0.77	YES	6.4
2	35 Total-tetrafurans	303.9016	25.96	620.619	0.924	0.027		0.78	0.77	NO	4.1
3	4 123478-HxCDF	373.8208	35.34	433.621	1.141	0.023	0.021	1.43	1.24	YES	6.3
4	38 Total-hexafurans	373.8208	33.59	374.146	1.130	0.020		0.88	1.24	YES	3.4
5	38 Total-hexafurans	373.8208	37.59	249.304	1.130	0.013		2.01	1.24	YES	6.5
6	7 123789-HxCDF	373.8208	37.56	612.111	1.110	0.038	0.038	1.13	1.24	NO	7.5
7	8 1234678-HpCDF	407.7818	39.63	830.829	1.267	0.050	0.050	1.20	1.05	NO	4.7
8	10 OCDF	441.7428	47.70	1353.318	1.067	0.144	0.108	0.55	0.89	YES	9.0
9	12 12378-PeCDD	355.8546	31.88	271.176	1.017	0.018	0.018	1.71	1.55	NO	3.5
10	44 Total-heptadioxins	423.7766	40.20	963.293	1.051	0.077		1.57	1.05	YES	5.9
11	16 1234678-HpCDD	423.7766	41.47	1190.124	1.051	0.095	0.087	0.88	1.05	YES	7.2
12	17 OCDD	457.7377	47.42	8272.017	1.030	0.910	0.910	0.85	0.89	NO	71.0

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	28.11	0.000							1.8
2	48 FUNCTION1 PFK	330.9792	26.11	0.000							2.3
3	48 FUNCTION1 PFK	330.9792	24.51	0.000							1.2
4	48 FUNCTION1 PFK	330.9792	21.19	0.000							6.0

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	30.64	0.000		0.000					1.3
2	49 FUNCTION2 PFK	366.9792	30.35	0.000		0.000					3.1
3	49 FUNCTION2 PFK	366.9792	30.28	0.000		0.000					1.8
4	49 FUNCTION2 PFK	366.9792	29.98	0.000		0.000					2.0
5	49 FUNCTION2 PFK	366.9792	29.87	0.000		0.000					0.4
6	49 FUNCTION2 PFK	366.9792	29.58	0.000		0.000					1.0
7	49 FUNCTION2 PFK	366.9792	29.53	0.000		0.000					1.1
8	49 FUNCTION2 PFK	366.9792	29.35	0.000		0.000					0.5
9	49 FUNCTION2 PFK	366.9792	29.31	0.000		0.000					1.4
10	49 FUNCTION2 PFK	366.9792	28.67	0.000		0.000					4.1
11	49 FUNCTION2 PFK	366.9792	32.80	0.000		0.000					1.7
12	49 FUNCTION2 PFK	366.9792	32.40	0.000		0.000					0.4
13	49 FUNCTION2 PFK	366.9792	32.04	0.000		0.000					0.2
14	49 FUNCTION2 PFK	366.9792	31.99	0.000		0.000					0.7
15	49 FUNCTION2 PFK	366.9792	31.82	0.000		0.000					0.6
16	49 FUNCTION2 PFK	366.9792	31.47	0.000		0.000					1.5
17	49 FUNCTION2 PFK	366.9792	31.24	0.000		0.000					2.0
18	49 FUNCTION2 PFK	366.9792	30.81	0.000		0.000					0.8

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	38.25	0.000		0.000					6.0
2	50 FUNCTION3 PFK	380.9760	38.21	0.000		0.000					6.9
3	50 FUNCTION3 PFK	380.9760	36.72	0.000		0.000					3.5

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	39.48	0.000							9.7
2	51 FUNCTION4 PFK	430.9728	39.10	0.000							9.5
3	51 FUNCTION4 PFK	430.9728	38.91	0.000							10.5
4	51 FUNCTION4 PFK	430.9728	42.00	0.000							4.6
5	51 FUNCTION4 PFK	430.9728	41.97	0.000							4.4
6	51 FUNCTION4 PFK	430.9728	41.84	0.000							7.1
7	51 FUNCTION4 PFK	430.9728	41.59	0.000							1.8
8	51 FUNCTION4 PFK	430.9728	41.33	0.000							2.8
9	51 FUNCTION4 PFK	430.9728	41.08	0.000							5.5
10	51 FUNCTION4 PFK	430.9728	41.01	0.000							3.6
11	51 FUNCTION4 PFK	430.9728	40.81	0.000							1.3
12	51 FUNCTION4 PFK	430.9728	40.66	0.000							4.5
13	51 FUNCTION4 PFK	430.9728	39.67	0.000							14.7

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	44.75	0.000							2.1
2	52 FUNCTION5 PFK	480.9696	44.69	0.000							3.7
3	52 FUNCTION5 PFK	480.9696	44.65	0.000							3.1
4	52 FUNCTION5 PFK	480.9696	44.63	0.000							3.0
5	52 FUNCTION5 PFK	480.9696	44.59	0.000							0.7
6	52 FUNCTION5 PFK	480.9696	47.22	0.000							0.7
7	52 FUNCTION5 PFK	480.9696	47.18	0.000							0.5
8	52 FUNCTION5 PFK	480.9696	47.09	0.000							2.0
9	52 FUNCTION5 PFK	480.9696	46.47	0.000							1.0
10	52 FUNCTION5 PFK	480.9696	46.26	0.000							0.6
11	52 FUNCTION5 PFK	480.9696	46.19	0.000							1.0
12	52 FUNCTION5 PFK	480.9696	46.06	0.000							0.4
13	52 FUNCTION5 PFK	480.9696	46.00	0.000							0.6
14	52 FUNCTION5 PFK	480.9696	45.89	0.000							2.4
15	52 FUNCTION5 PFK	480.9696	45.79	0.000							1.1
16	52 FUNCTION5 PFK	480.9696	45.61	0.000							1.2
17	52 FUNCTION5 PFK	480.9696	45.35	0.000							1.0
18	52 FUNCTION5 PFK	480.9696	45.26	0.000							1.2
19	52 FUNCTION5 PFK	480.9696	45.24	0.000							1.2
20	52 FUNCTION5 PFK	480.9696	45.11	0.000							2.1
21	52 FUNCTION5 PFK	480.9696	44.84	0.000							0.7
22	52 FUNCTION5 PFK	480.9696	48.62	0.000							0.7
23	52 FUNCTION5 PFK	480.9696	48.58	0.000							0.7
24	52 FUNCTION5 PFK	480.9696	48.54	0.000							1.3
25	52 FUNCTION5 PFK	480.9696	48.49	0.000							2.0
26	52 FUNCTION5 PFK	480.9696	48.37	0.000							1.8
27	52 FUNCTION5 PFK	480.9696	48.33	0.000							1.4
28	52 FUNCTION5 PFK	480.9696	48.13	0.000							1.4
29	52 FUNCTION5 PFK	480.9696	48.06	0.000							0.5
30	52 FUNCTION5 PFK	480.9696	47.93	0.000							0.7
31	52 FUNCTION5 PFK	480.9696	47.87	0.000							2.2
32	52 FUNCTION5 PFK	480.9696	47.62	0.000							0.4
33	52 FUNCTION5 PFK	480.9696	47.58	0.000							0.8
34	52 FUNCTION5 PFK	480.9696	47.43	0.000							1.1
35	52 FUNCTION5 PFK	480.9696	47.38	0.000							1.1
36	52 FUNCTION5 PFK	480.9696	47.30	0.000							0.8
37	52 FUNCTION5 PFK	480.9696	47.27	0.000							0.9
38	52 FUNCTION5 PFK	480.9696	49.40	0.000							1.6
39	52 FUNCTION5 PFK	480.9696	49.34	0.000							1.2
40	52 FUNCTION5 PFK	480.9696	49.28	0.000							0.7
41	52 FUNCTION5 PFK	480.9696	49.09	0.000							1.2
42	52 FUNCTION5 PFK	480.9696	49.05	0.000							1.9
43	52 FUNCTION5 PFK	480.9696	48.93	0.000							1.8
44	52 FUNCTION5 PFK	480.9696	48.84	0.000							0.7
45	52 FUNCTION5 PFK	480.9696	48.76	0.000							1.1
46	52 FUNCTION5 PFK	480.9696	48.70	0.000							1.1

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	24.81	0.000		0.000					4.3
2	53 FUNCTION1 HXCD...	375.8364	23.85	0.000		0.000					2.1

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	27.30	0.000		0.000					2.9
2	54 FUNCTION1 HPCD...	409.7974	23.69	0.000		0.000					3.8
3	54 FUNCTION1 HPCD...	409.7974	21.31	0.000		0.000					2.3

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	32.34	0.000		0.000					3.7

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	40.28	0.000		0.000					2.8

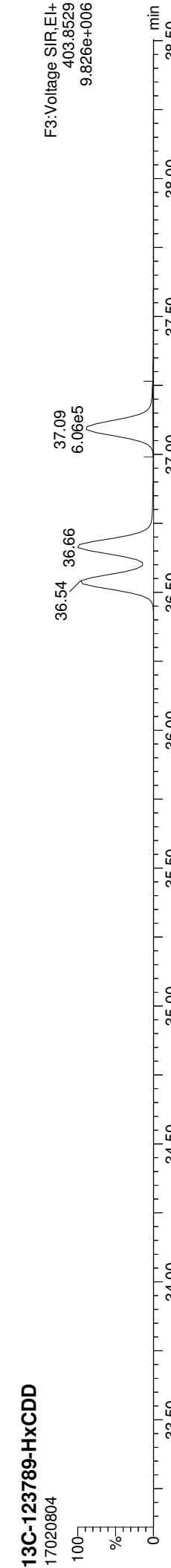
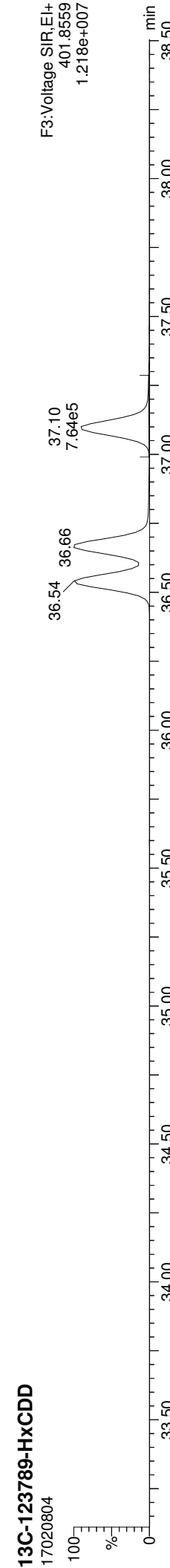
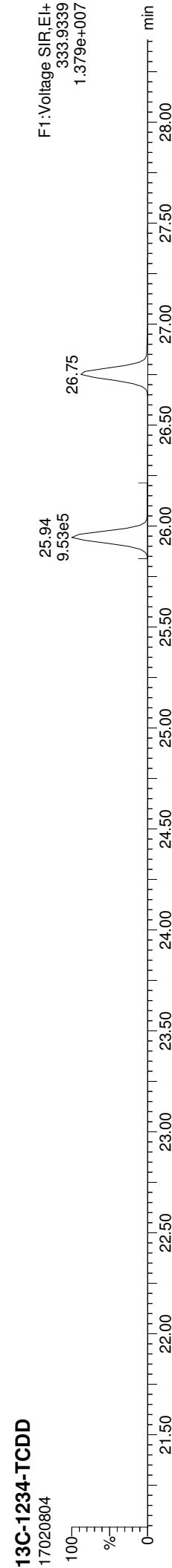
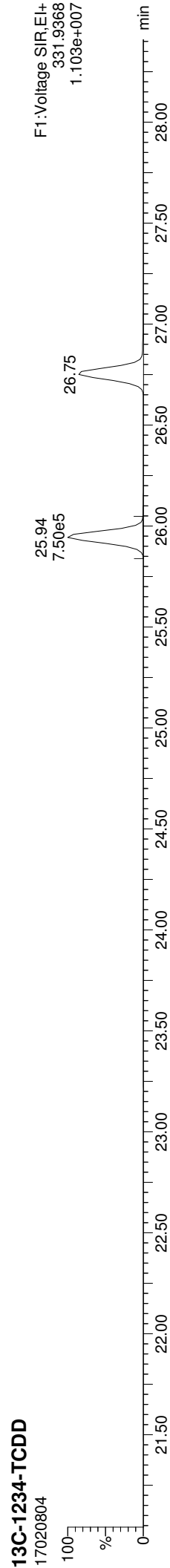
ETHERS6

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1 ^o Rati...	1 ^o Rati...	1 ^o R...	S/N
1	58 FUNCTION5 DCDPE	513.6775	46.27	0.000		0.000					4.7

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

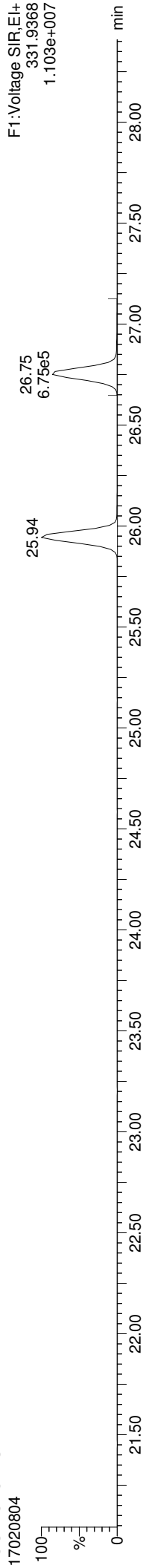
ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK



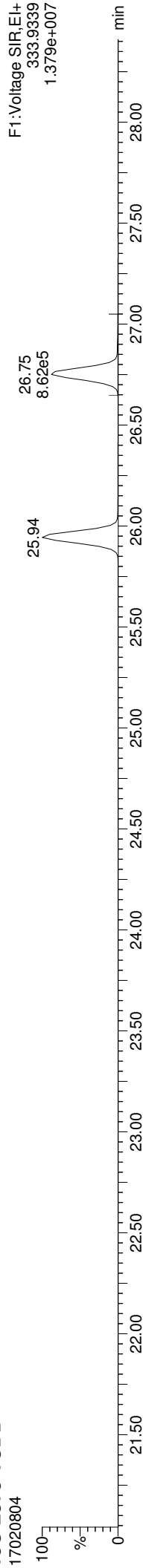
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

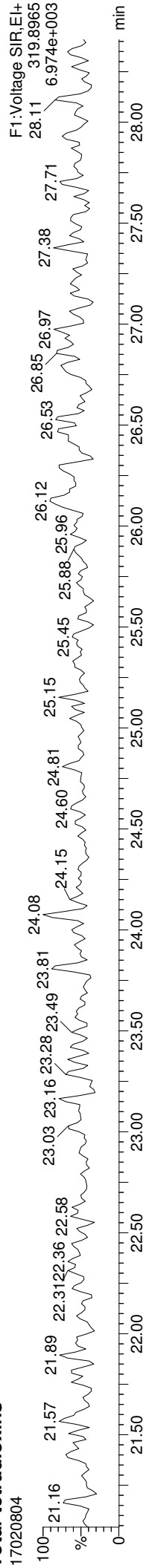
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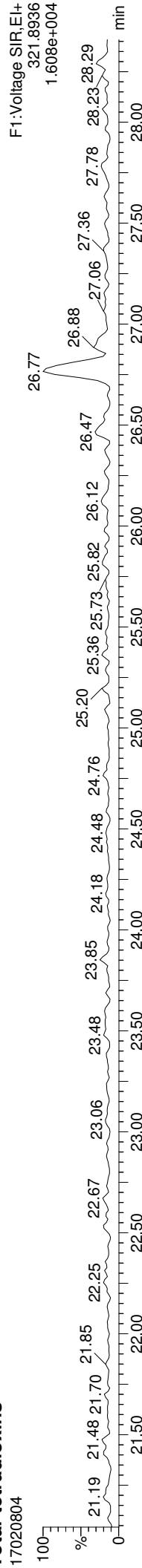
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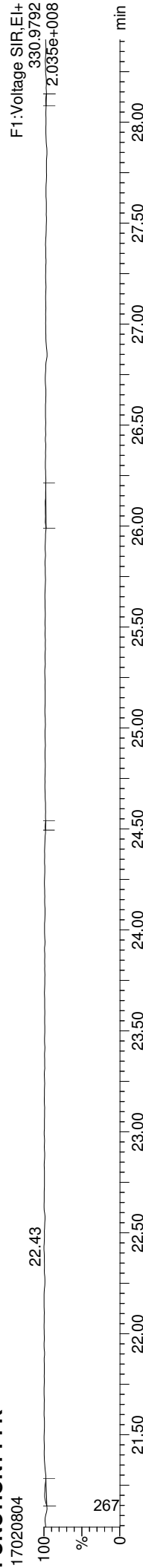
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK

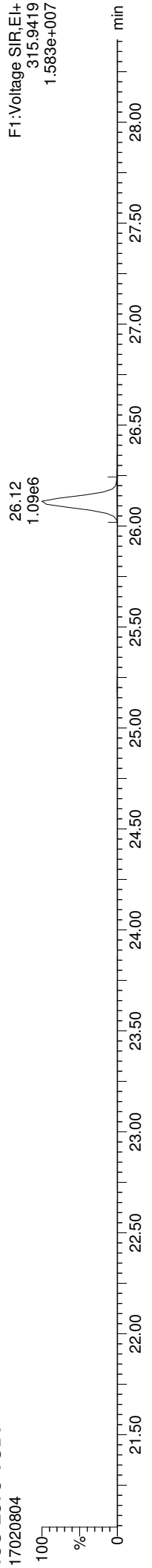


Quantify Sample Report
Dataset: C:\MassLynx\17020804\17020804.d
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

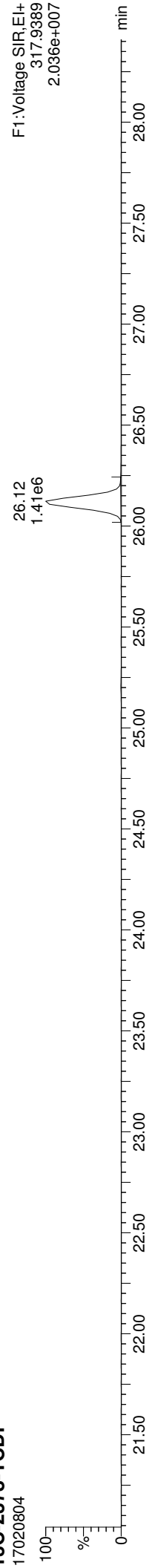
MassLynx MassLynx V4.1 SCN909

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

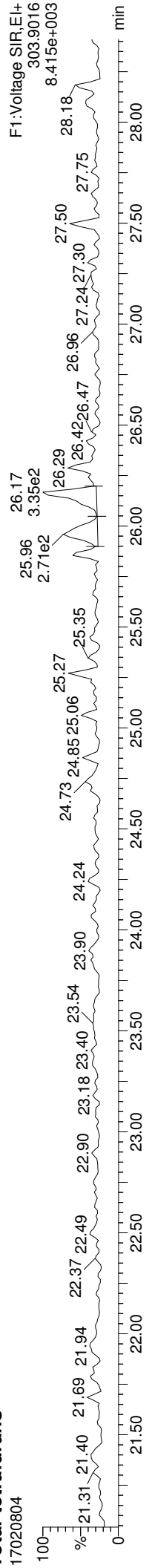
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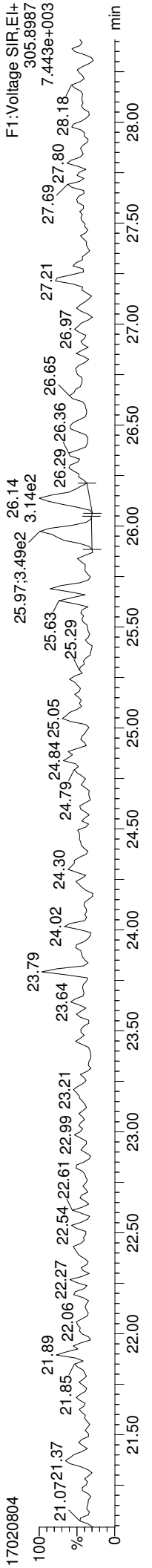
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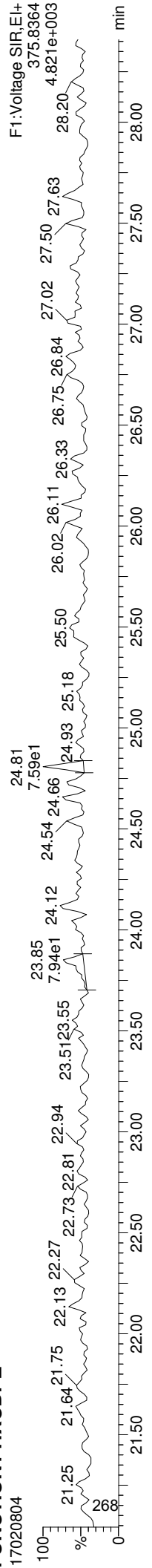
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDFE

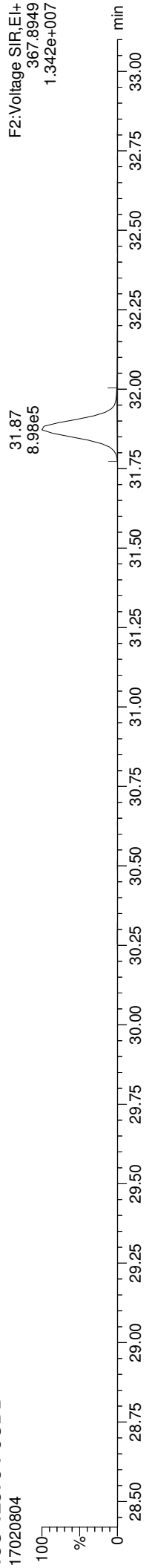


Quantify Sample Report

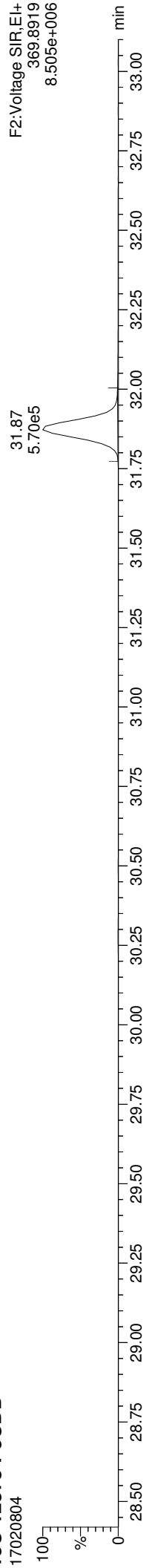
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17020804.d\17020804.d
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

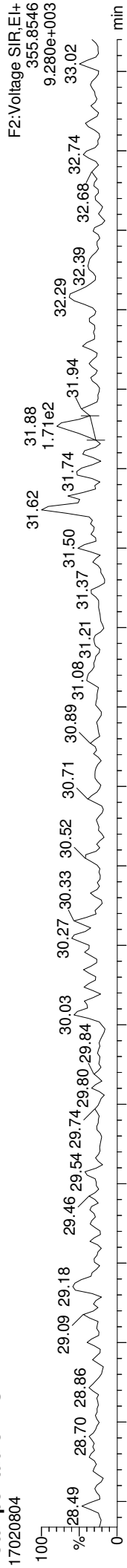
13C-12378-PeCDD



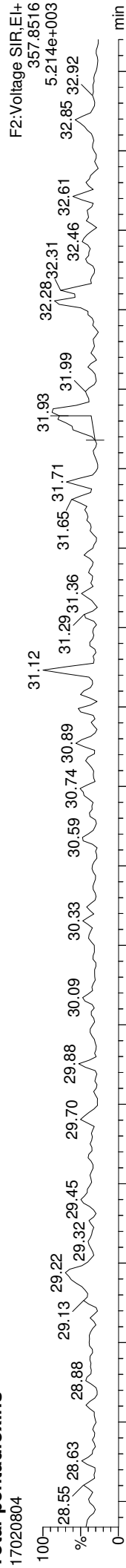
13C-12378-PeCDD



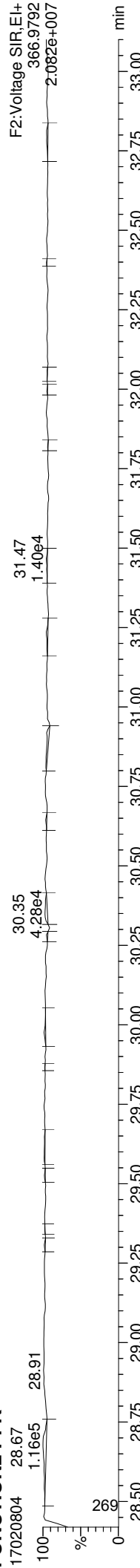
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

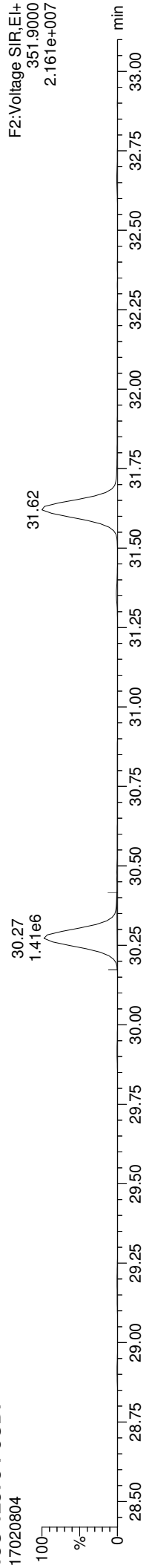


Quantify Sample Report

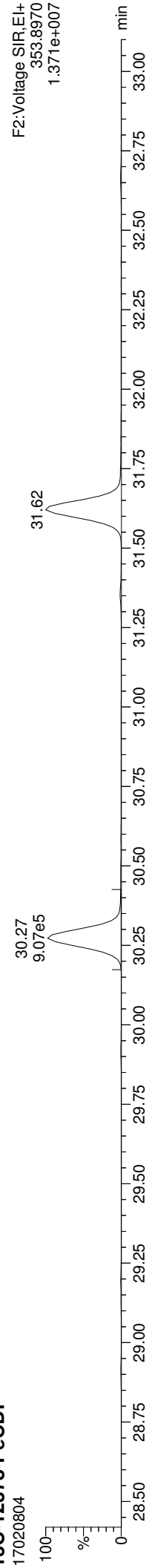
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

13C-12378-PeCDF



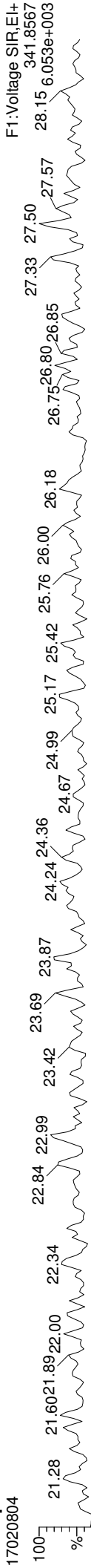
13C-12378-PeCDF



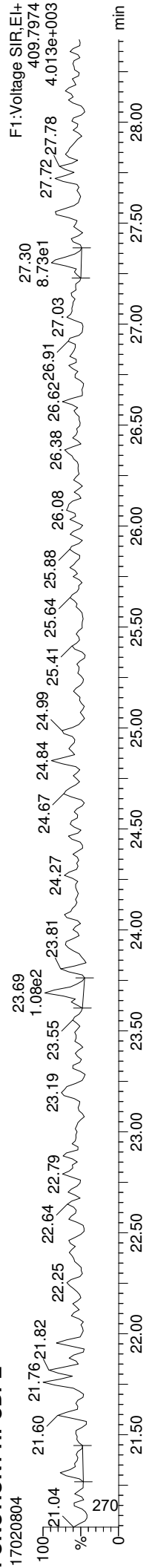
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

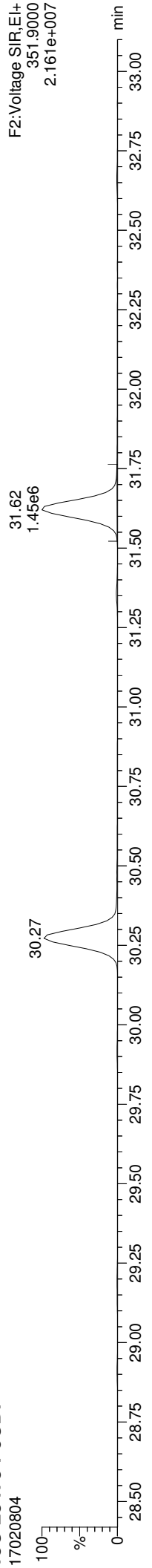


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

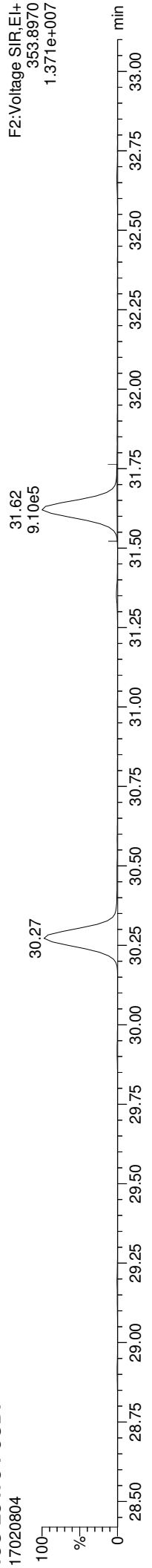
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

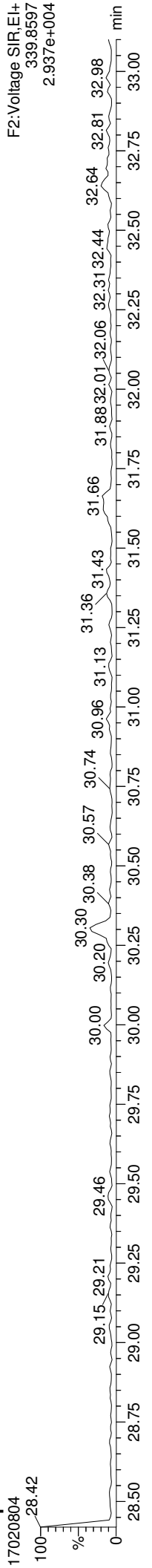
13C-23478-PeCDF



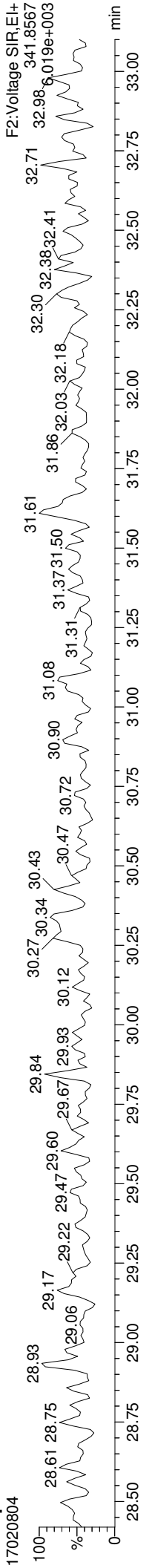
13C-23478-PeCDF



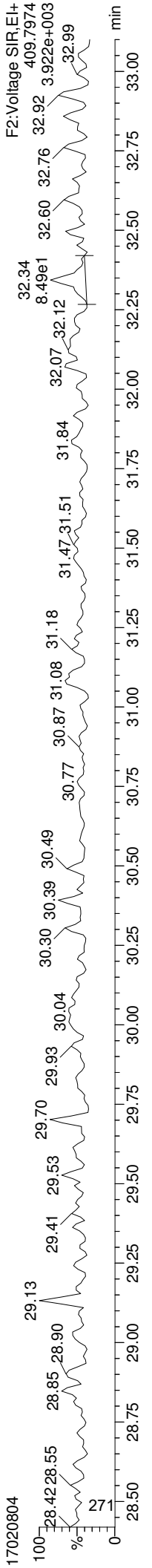
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

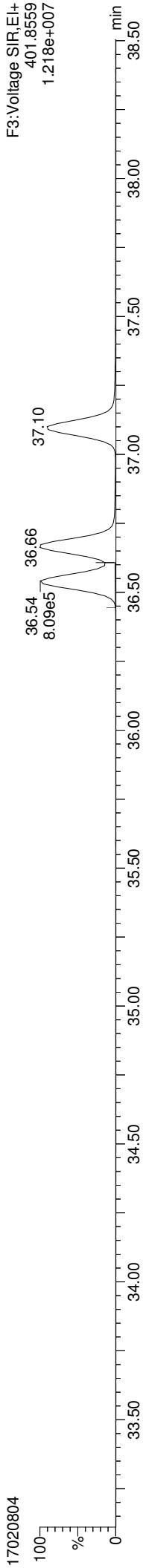


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

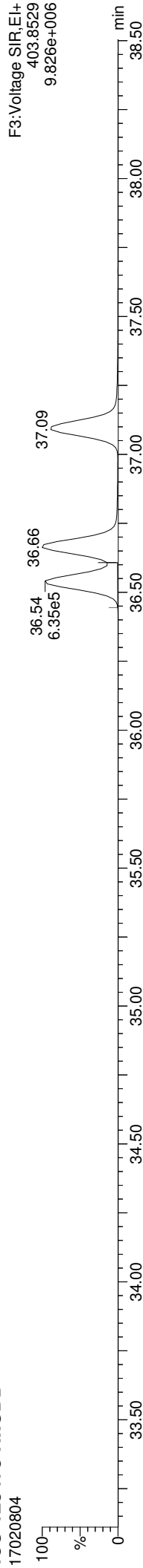
Dataset: C:\MassLynx\Dioxin.pro\17020804.d
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

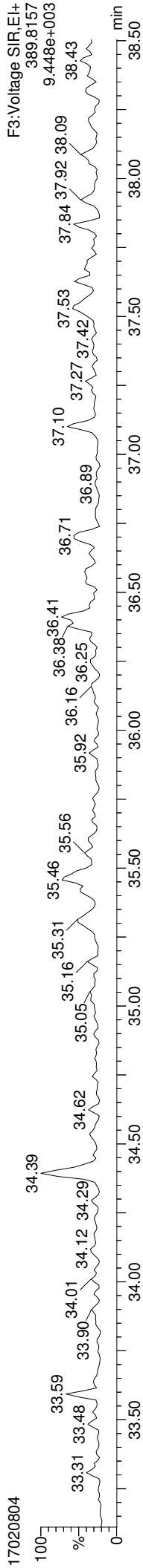
13C-123478-HxCDD



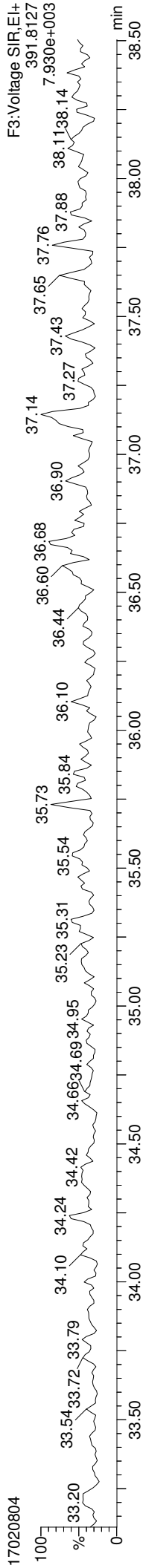
13C-123478-HxCDD



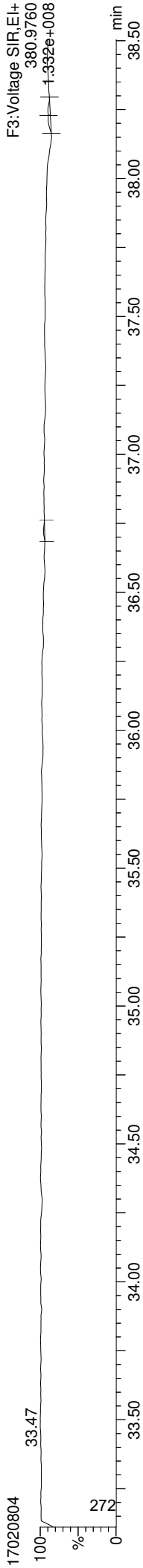
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report

MassLynx MassLynx V4.1 SCN909

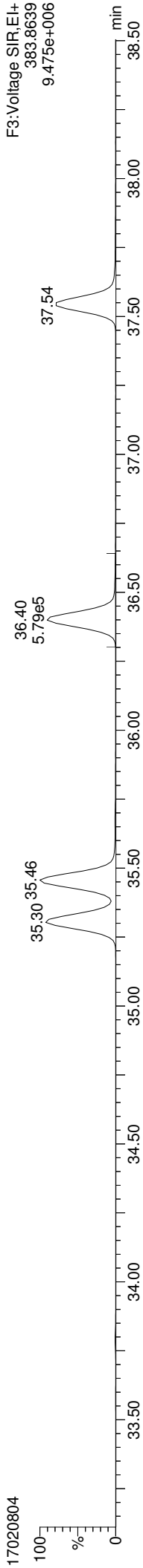
Dataset: C:\MassLynx\Dioxin.pro\170208D.d

Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time

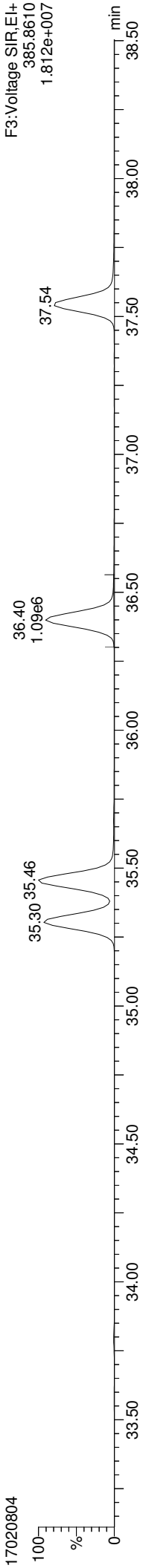
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

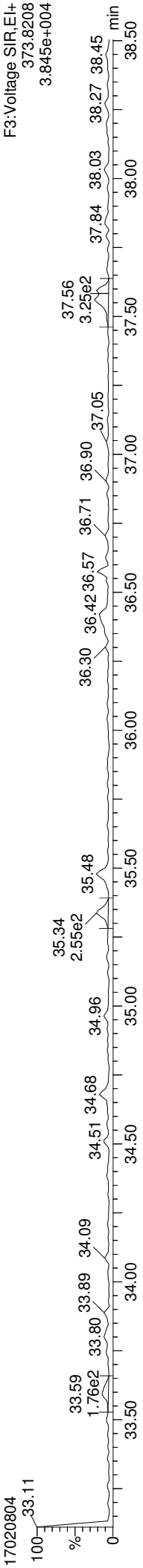
13C-234678-HxCDF



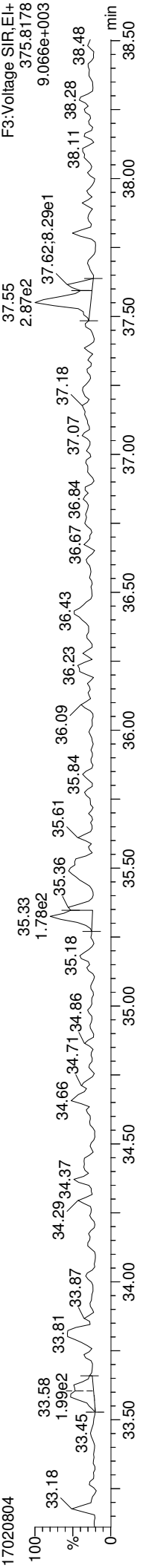
13C-234678-HxCDF



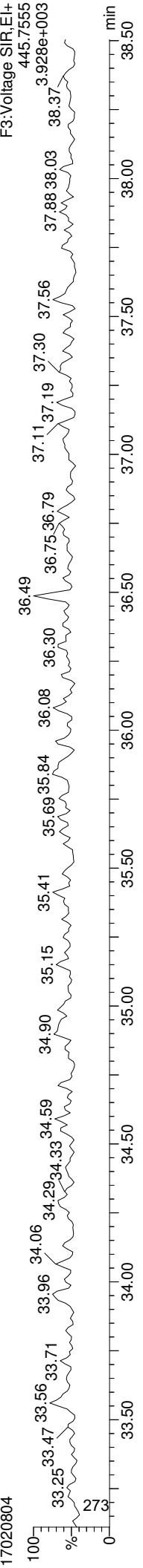
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE

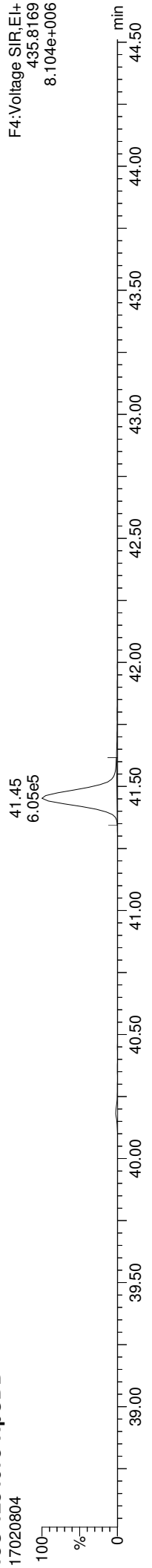


Quantify Sample Report

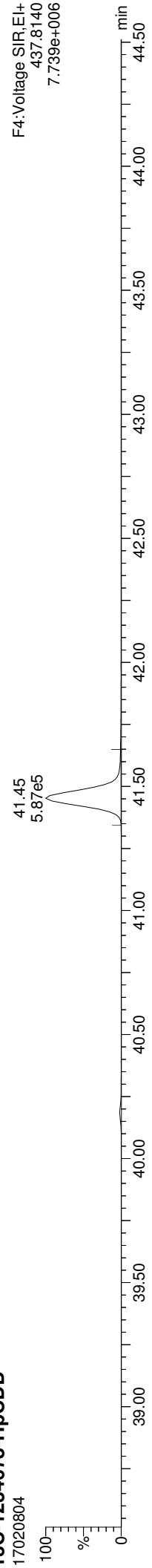
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

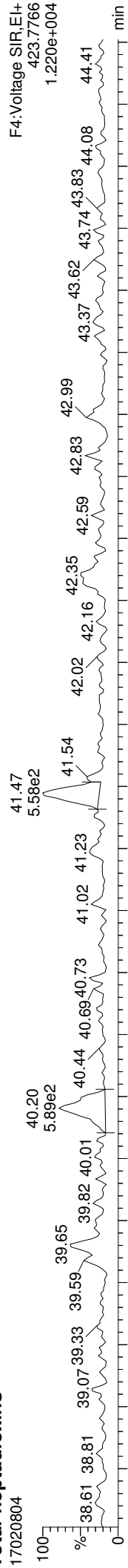
13C-1234678-HpCDD



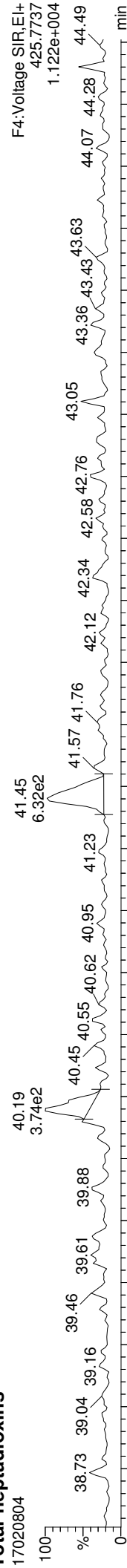
13C-1234678-HpCDD



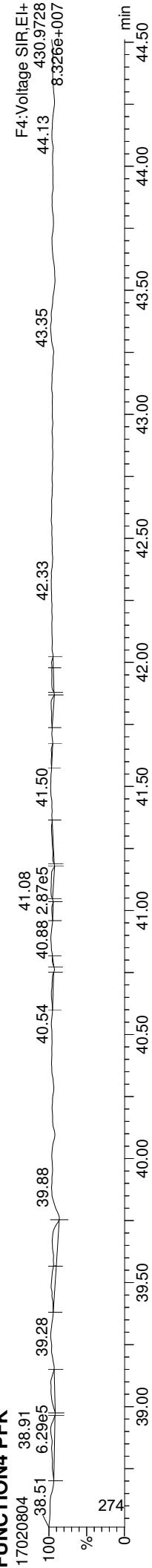
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

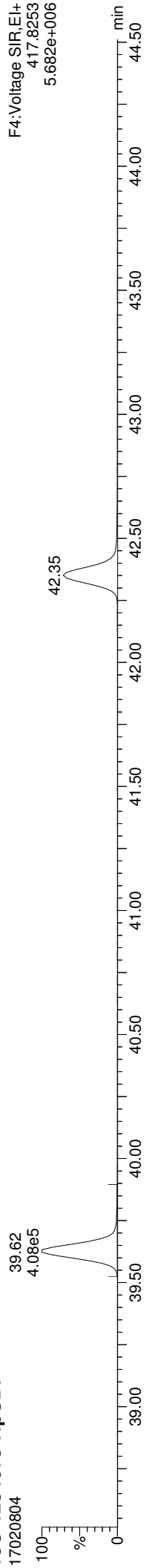


Quantify Sample Report

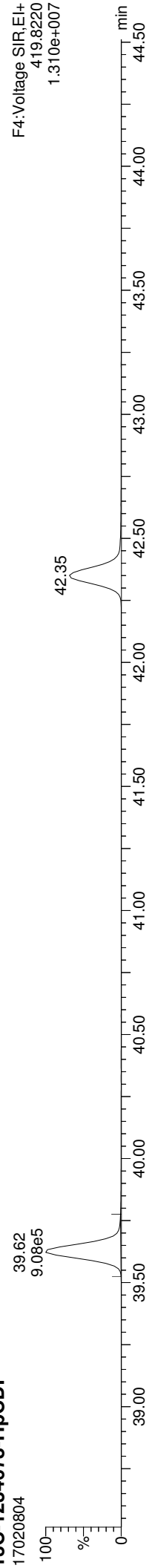
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

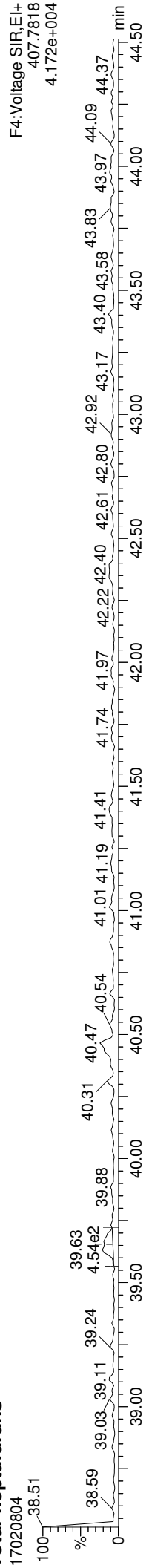
13C-1234678-HpCDF



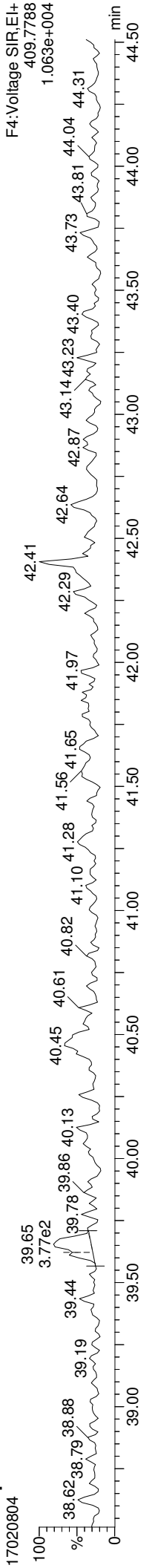
13C-1234678-HpCDF



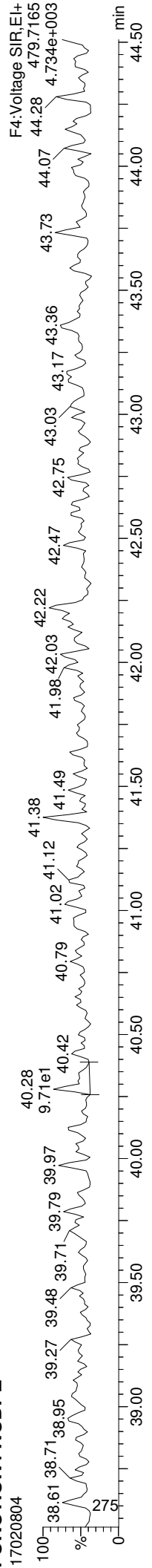
Total-heptafurans



Total-heptafurans



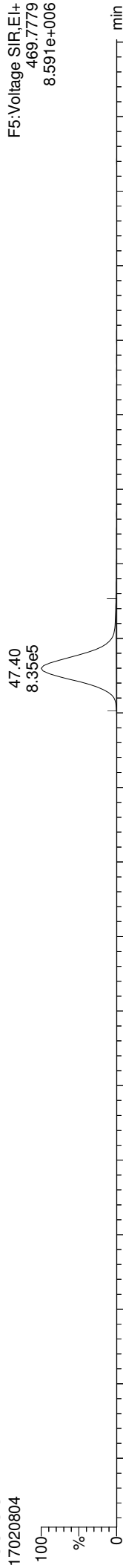
FUNCTION4 NCDPE



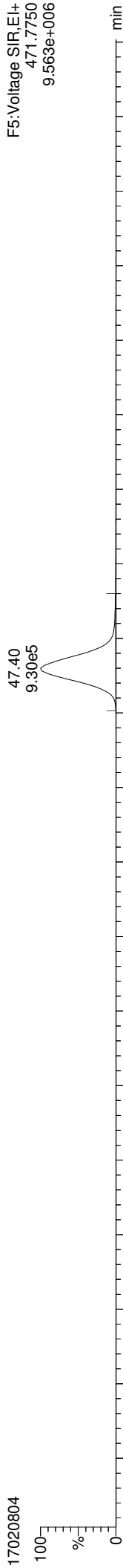
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

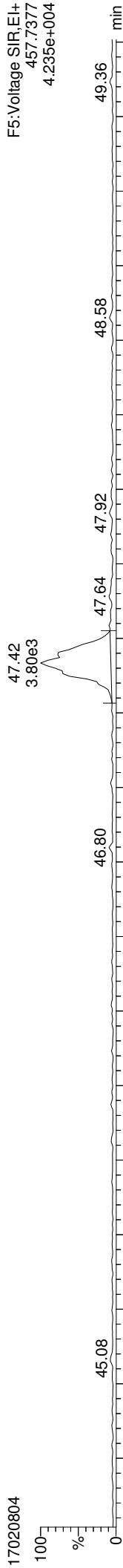
13C-OCDD



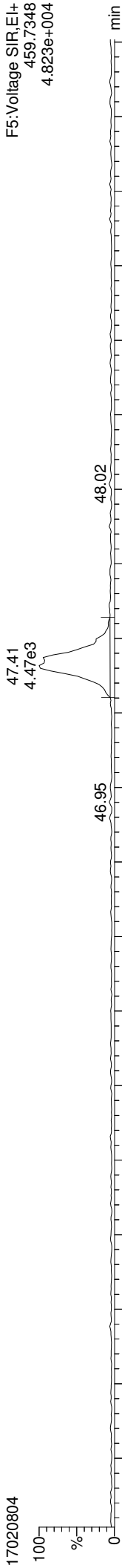
13C-OCDD



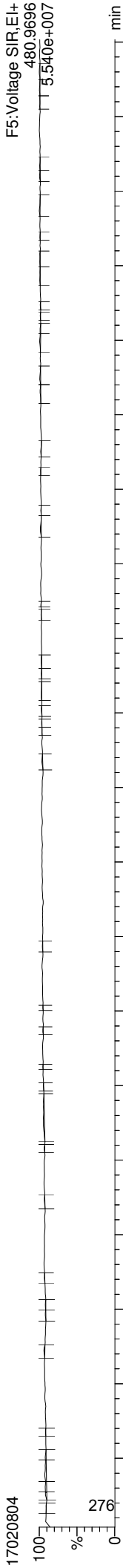
OCDD



OCDD



FUNCTION5 PFK

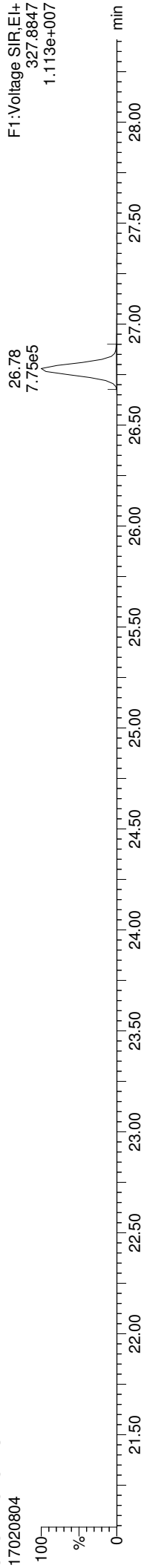


Quantify Sample Report

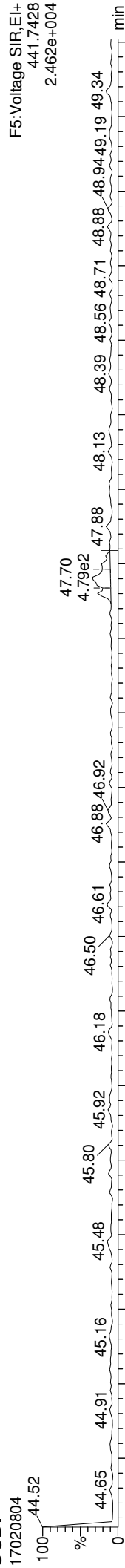
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:29 Pacific Standard Time

ID: BFA0657-BLK1, Name: 17020804, Date: 08-Feb-2017, Time: 13:11:46, Conditions: AUTOSPEC01, User: PK

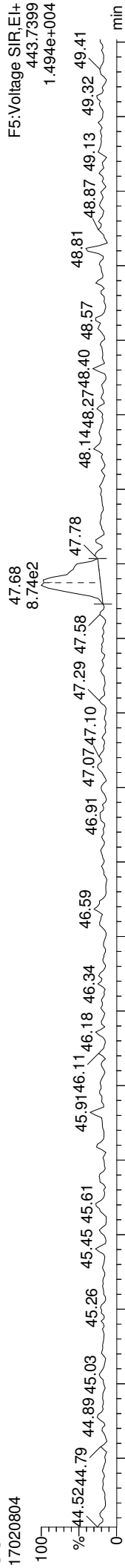
37CL-2378-TCDD



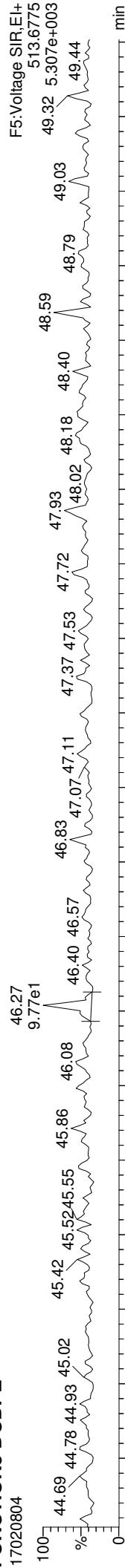
OCDF



OCDF



FUNCTION5 DCDPE





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Form I
METHOD BLANK DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17A0053</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	Tissue	Laboratory ID:	<u>BFB0538-BLK1</u>
Sampled:	<u>N/A</u>	File ID:	<u>17022404</u>
Solids Wt%:		Prepared:	<u>02/22/17 12:00</u>
Result Basis:	<u>Dry</u>	Analyzed:	<u>02/24/17 15:52</u>
Batch:	<u>BFB0538</u>	Preparation:	<u>EPA 1613</u>
		Initial/Final:	<u>10 g / 20 uL</u>
		Sequence:	<u>SFB0342</u>
		Calibration:	<u>AA00071</u>
		Instrument:	<u>AUTOSPEC01</u>
		Column:	<u>RTX-Dioxin2</u>

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.055	1.00	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.065	1.00	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.068	5.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.065	5.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.066	5.00	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.315	1.054-1.426		5.00	0.0697	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.362	1.054-1.426		5.00	0.0326	ng/kg	J
60851-34-5	2,3,4,6,7,8-HxCDF	1	2.276	1.054-1.426		5.00	0.0663	ng/kg	EMPC, J
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.959	1.054-1.426		5.00	0.116	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.074	5.00	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.077	5.00	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.596	1.054-1.426		5.00	0.179	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.199	0.893-1.208		5.00	0.285	ng/kg	J
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.866	0.893-1.208		5.00	0.0633	ng/kg	EMPC, J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.431	0.893-1.208		5.00	0.472	ng/kg	EMPC, J
39001-02-0	OCDF	1	1.221	0.757-1.024		10.0	0.745	ng/kg	EMPC, J
3268-87-9	OCDD	1	0.961	0.757-1.024		10.0	4.98	ng/kg	J

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	0.309	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	0.179	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	0.529	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	0.766	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.056
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.143



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Form I
METHOD BLANK DATA SHEET
EPA 1613B
Chlorinated Dioxins/Furans by HRGC/HRMS

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>17A0053</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble Shellfish Monitoring</u>
Matrix: Tissue	Laboratory ID: <u>BFB0538-BLK1</u>
Sampled: <u>N/A</u>	File ID: <u>17022404</u>
Solids Wt%:	Prepared: <u>02/22/17 12:00</u>
Result Basis: <u>Dry</u>	Analyzed: <u>02/24/17 15:52</u>
Batch: <u>BFB0538</u>	Preparation: <u>EPA 1613</u>
	Initial/Final: <u>10 g / 20 uL</u>
	Sequence: <u>SFB0342</u>
	Calibration: <u>AA00071</u>
	Instrument: <u>AUTOSPEC01</u>
	Column: <u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF	1	0.780	0.655-0.886		90.9	24 - 169 %	
13C12-2,3,7,8-TCDD	1	0.794	0.655-0.886		96.4	25 - 164 %	
13C12-1,2,3,7,8-PeCDF	1	1.584	1.318-1.783		90.8	24 - 185 %	
13C12-2,3,4,7,8-PeCDF	1	1.584	1.318-1.783		94.5	21 - 178 %	
13C12-1,2,3,7,8-PeCDD	1	1.580	1.318-1.783		98.5	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF	1	0.514	0.434-0.587		82.9	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF	1	0.522	0.434-0.587		85.8	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF	1	0.516	0.434-0.587		86.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF	1	0.512	0.434-0.587		91.9	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD	1	1.290	1.054-1.426		91.7	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD	1	1.256	1.054-1.426		93.8	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF	1	0.449	0.374-0.506		83.5	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF	1	0.448	0.374-0.506		98.9	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1	1.039	0.893-1.208		94.6	23 - 140 %	
13C12-OCDD	1	0.906	0.757-1.024		90.9	17 - 157 %	
37C14-2,3,7,8-TCDD	1	328.000			101	35 - 197 %	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF					0.924		0.770	659	2091					
12378-PeCDF					0.954		1.550	1140	1804					
23478-PeCDF					0.966		1.550	1140	1804					
123478-HxCDF	34.697	1.000	3.02e2	2.29e2	1.141	1.315	1.240	817	798	4.15e3	3.46e3	5.1	NO	0.035
234678-HxCDF	35.804	1.001	3.58e2	1.57e2	1.181	2.276	1.240	817	798	5.60e3	2.99e3	6.9	YES	0.033
123678-HxCDF	34.861	1.001	1.53e2	1.13e2	1.089	1.362	1.240	817	798	3.61e3	2.94e3	4.4	NO	0.016
123789-HxCDF	36.944	1.000	3.62e2	3.77e2	1.110	0.959	1.240	817	798	7.23e3	5.75e3	8.8	YES	0.058
1234678-HpCDF	39.015	1.000	1.07e3	8.95e2	1.267	1.199	1.050	1091	1119	1.91e4	1.71e4	17.5	NO	0.142
1234789-HpCDF	41.635	1.000	1.60e2	1.85e2	1.295	0.866	1.050	1091	1119	4.36e3	4.16e3	4.0	YES	0.032
OCDF	46.768	1.007	1.47e3	1.20e3	1.067	1.221	0.890	612	1385	1.53e4	1.40e4	24.9	YES	0.373
2378-TCDD					1.150		0.770	1594	832					
12378-PeCDD					1.017		1.550	1439	510					
123478-HxCDD					1.017		1.240	811	1325					
123678-HxCDD					0.964		1.240	811	1325					
123789-HxCDD	36.505	1.013	6.20e2	3.89e2	0.948	1.596	1.240	811	1325	1.00e4	7.20e3	12.4	YES	0.090
1234678-HpCDD	40.780	1.000	1.36e3	9.48e2	1.051	1.431	1.050	830	732	1.90e4	1.43e4	22.9	YES	0.236
OCDD	46.463	1.000	8.43e3	8.77e3	1.030	0.961	0.890	606	530	9.58e4	1.04e5	158.0	NO	2.491
13C-2378-TCDF	25.541	1.007	9.73e5	1.25e6	1.515	0.780	0.770	11523	4883	1.43e7	1.86e7	1243.2	NO	90.923
13C-12378-PeCDF	29.677	1.169	1.15e6	7.23e5	1.276	1.584	1.550	4929	3564	1.68e7	1.06e7	3409.3	NO	90.836
13C-23478-PeCDF	31.025	1.223	1.17e6	7.41e5	1.257	1.584	1.550	4929	3564	1.72e7	1.09e7	3481.4	NO	94.489
13C-123478-HxCDF	34.686	0.951	4.53e5	8.82e5	1.431	0.514	0.510	4662	3266	6.73e6	1.31e7	1444.3	NO	82.937
13C-123678-HxCDF	34.839	0.955	5.14e5	9.84e5	1.552	0.522	0.510	4662	3266	7.18e6	1.37e7	1540.8	NO	85.769
13C-234678-HxCDF	35.782	0.981	4.48e5	8.68e5	1.349	0.516	0.510	4662	3266	6.52e6	1.26e7	1398.1	NO	86.646
13C-123789-HxCDF	36.933	1.013	3.89e5	7.60e5	1.111	0.512	0.510	4662	3266	5.48e6	1.07e7	1175.5	NO	91.863
13C-1234678-HpCDF	39.004	1.069	3.38e5	7.52e5	1.160	0.449	0.440	2297	2474	4.86e6	1.07e7	2117.1	NO	83.496
13C-1234789-HpCDF	41.613	1.141	2.61e5	5.82e5	0.758	0.448	0.440	2297	2474	3.37e6	7.48e6	1467.3	NO	98.864
13C-1234-TCDD	25.376	0.000	7.17e5	8.96e5	1.000	0.800	0.770	3527	2106	1.06e7	1.32e7	3009.1	NO	100.000
13C-2378-TCDD	26.168	1.031	6.00e5	7.56e5	0.872	0.794	0.770	3527	2106	8.56e6	1.08e7	2428.2	NO	96.399
13C-12378-PeCDD	31.277	1.232	7.34e5	4.65e5	0.754	1.580	1.550	2005	2944	1.07e7	6.74e6	5343.2	NO	98.512
13C-123478-HxCDD	35.924	0.985	6.43e5	4.98e5	1.106	1.290	1.240	2046	2129	9.62e6	7.48e6	4700.7	NO	91.677
13C-123678-HxCDD	36.056	0.989	6.85e5	5.45e5	1.165	1.256	1.240	2046	2129	9.60e6	7.57e6	4694.2	NO	93.810
13C-1234678-HpCDD	40.758	1.117	4.73e5	4.56e5	0.872	1.039	1.050	2582	2332	6.36e6	6.01e6	2462.6	NO	94.628
13C-OCDD	46.454	1.274	6.37e5	7.04e5	0.655	0.906	0.890	1819	1733	6.51e6	7.26e6	3578.2	NO	181.791
13C-123789-HxCDD	36.472	0.000	6.21e5	5.05e5	1.000	1.229	1.240	2046	2129	8.72e6	7.02e6	4262.2	NO	100.000
Total-tetrafurans			0.00e0		0.924			659		0.00e0				

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170224D.d\id
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			0.00e0					689		0.00e0				
Total-pentafurans			0.00e0		0.960			1140		0.00e0				0.154
Total-hexafurans			1.26e3		1.130			817		2.37e4				0.264
Total-heptafurans			1.73e3		1.281			1091		3.71e4				0.791
Total-Furans			4.45e3		1.100			659		7.61e4				
Total-tetradioxins			0.00e0		1.150			1594		0.00e0				
Total-pentadioxins			0.00e0		1.017			1439		0.00e0				
Total-hexadioxins			6.20e2		0.977			811		1.00e4				0.090
Total-heptadioxins			2.14e3		1.051			830		3.64e4				0.383
Total-Dioxins			1.12e4		1.025			1594		1.42e5				2.964
Total-TEQ			1.56e4					1594		2.18e5				3.755
37CL-2378-TCDD	26.198	1.032	7.02e5		1.073			1646		1.02e7		6223.6		40.566
FUNCTION1 PFK			2.38e7					966658		9.52e7				
FUNCTION2 PFK			9.82e5					268422		2.29e7				0.000
FUNCTION3 PFK			2.42e5					704258		3.56e6				0.000
FUNCTION4 PFK			3.10e6					542611		4.09e7				
FUNCTION5 PFK			1.40e6					433998		2.55e7				
FUNCTION1 HXCD...			2.85e2					621		7.24e3				0.000
FUNCTION1 HPCD...			1.00e3					1120		2.01e4				0.000
FUNCTION2 HPCD...			7.92e2					1021		2.11e4				0.000
FUNCTION3 OCDPE			0.00e0					440		0.00e0				
FUNCTION4 NCDPE			0.00e0					773		0.00e0				
FUNCTION5 DCDPE			0.00e0					388		0.00e0				

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

TF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PP

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	6 123678-HxCDF	373.8208	34.86	266.095	1.089	0.016	0.016	1.36	1.24	NO	4.4
2	4 123478-HxCDF	373.8208	34.70	531.302	1.141	0.035	0.035	1.32	1.24	NO	5.1
3	38 Total-hexa-furans	373.8208	34.07	181.799	1.130	0.012		0.81	1.24	YES	3.8
4	7 123789-HxCDF	373.8208	36.94	738.675	1.110	0.058	0.051	0.96	1.24	YES	8.8
5	5 234678-HxCDF	373.8208	35.80	514.909	1.181	0.033	0.023	2.28	1.24	YES	6.9

HPF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	41.63	345.710	1.295	0.032	0.029	0.87	1.05	YES	4.0
2	39 Total-hepta-furans	407.7818	39.82	399.275	1.281	0.032		1.97	1.05	YES	6.2
3	39 Total-hepta-furans	407.7818	39.78	717.778	1.281	0.058		0.47	1.05	YES	6.3
4	8 1234678-HpCDF	407.7818	39.02	1967.090	1.267	0.142	0.142	1.20	1.05	NO	17.5

Furans,TF,PP,PF,HF,HPF,OF

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	6 123678-HxCDF	373.8208	34.86	266.095	1.089	0.016	0.016	1.36	1.24	NO	4.4
2	4 123478-HxCDF	373.8208	34.70	531.302	1.141	0.035	0.035	1.32	1.24	NO	5.1
3	38 Total-hexa-furans	373.8208	34.07	181.799	1.130	0.012		0.81	1.24	YES	3.8
4	7 123789-HxCDF	373.8208	36.94	738.675	1.110	0.058	0.051	0.96	1.24	YES	8.8
5	5 234678-HxCDF	373.8208	35.80	514.909	1.181	0.033	0.023	2.28	1.24	YES	6.9
6	9 1234789-HpCDF	407.7818	41.63	345.710	1.295	0.032	0.029	0.87	1.05	YES	4.0
7	39 Total-hepta-furans	407.7818	39.82	399.275	1.281	0.032		1.97	1.05	YES	6.2
8	39 Total-hepta-furans	407.7818	39.78	717.778	1.281	0.058		0.47	1.05	YES	6.3
9	8 1234678-HpCDF	407.7818	39.02	1967.090	1.267	0.142	0.142	1.20	1.05	NO	17.5
10	10 OCDF	441.7428	46.77	2666.937	1.067	0.373	0.317	1.22	0.89	YES	24.9

TD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

PD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

HD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	15 123789-HxCDD	389.8157	36.51	1008.723	0.948	0.090	0.077	1.60	1.24	YES	12.4

HPD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	44 Total-heptadioxins	423.7766	39.55	1433.570	1.051	0.147		1.20	1.05	NO	21.0
2	16 1234678-HpCDD	423.7766	40.78	2304.404	1.051	0.236	0.199	1.43	1.05	YES	22.9

Dioxins,TD,PD,HD,HPD,OD

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	15 123789-HxCDD	389.8157	36.51	1008.723	0.948	0.090	0.077	1.60	1.24	YES	12.4
2	44 Total-heptadioxins	423.7766	39.55	1433.570	1.051	0.147		1.20	1.05	NO	21.0
3	17 OCDD	457.7377	46.46	17204.834	1.030	2.491	2.491	0.96	0.89	NO	158.0
4	16 1234678-HpCDD	423.7766	40.78	2304.404	1.051	0.236	0.199	1.43	1.05	YES	22.9

TotalTEQ,Furans,Dioxins

#	Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	6 123678-HxCDF	373.8208	34.86	266.095	1.089	0.016	0.016	1.36	1.24	NO	4.4
2	4 123478-HxCDF	373.8208	34.70	531.302	1.141	0.035	0.035	1.32	1.24	NO	5.1
3	38 Total-hexafurans	373.8208	34.07	181.799	1.130	0.012		0.81	1.24	YES	3.8
4	7 123789-HxCDF	373.8208	36.94	738.675	1.110	0.058	0.051	0.96	1.24	YES	8.8
5	5 234678-HxCDF	373.8208	35.80	514.909	1.181	0.033	0.023	2.28	1.24	YES	6.9
6	9 1234789-HpCDF	407.7818	41.63	345.710	1.295	0.032	0.029	0.87	1.05	YES	4.0
7	39 Total-heptafurans	407.7818	39.82	399.275	1.281	0.032		1.97	1.05	YES	6.2
8	39 Total-heptafurans	407.7818	39.78	717.778	1.281	0.058		0.47	1.05	YES	6.3
9	8 1234678-HpCDF	407.7818	39.02	1967.090	1.267	0.142	0.142	1.20	1.05	NO	17.5
10	10 OCDF	441.7428	46.77	2666.937	1.067	0.373	0.317	1.22	0.89	YES	24.9
11	15 123789-HxCDD	389.8157	36.51	1008.723	0.948	0.090	0.077	1.60	1.24	YES	12.4
12	44 Total-heptadioxins	423.7766	39.55	1433.570	1.051	0.147		1.20	1.05	NO	21.0
13	17 OCDD	457.7377	46.46	17204.834	1.030	2.491	2.491	0.96	0.89	NO	158.0
14	16 1234678-HpCDD	423.7766	40.78	2304.404	1.051	0.236	0.199	1.43	1.05	YES	22.9

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	21.28	0.000							32.5
2	48 FUNCTION1 PFK	330.9792	24.24	0.000							1.9
3	48 FUNCTION1 PFK	330.9792	24.17	0.000							1.2
4	48 FUNCTION1 PFK	330.9792	24.12	0.000							1.0
5	48 FUNCTION1 PFK	330.9792	23.84	0.000							0.6
6	48 FUNCTION1 PFK	330.9792	23.70	0.000							0.5
7	48 FUNCTION1 PFK	330.9792	23.60	0.000							0.4
8	48 FUNCTION1 PFK	330.9792	23.54	0.000							0.6
9	48 FUNCTION1 PFK	330.9792	23.39	0.000							0.7
10	48 FUNCTION1 PFK	330.9792	23.33	0.000							1.5
11	48 FUNCTION1 PFK	330.9792	23.18	0.000							0.7
12	48 FUNCTION1 PFK	330.9792	22.93	0.000							1.1
13	48 FUNCTION1 PFK	330.9792	22.84	0.000							1.0
14	48 FUNCTION1 PFK	330.9792	22.40	0.000							0.7
15	48 FUNCTION1 PFK	330.9792	22.34	0.000							0.8
16	48 FUNCTION1 PFK	330.9792	21.94	0.000							11.3
17	48 FUNCTION1 PFK	330.9792	21.42	0.000							29.3
18	48 FUNCTION1 PFK	330.9792	27.80	0.000							0.4
19	48 FUNCTION1 PFK	330.9792	27.38	0.000							1.4
20	48 FUNCTION1 PFK	330.9792	27.27	0.000							1.6
21	48 FUNCTION1 PFK	330.9792	26.97	0.000							0.5
22	48 FUNCTION1 PFK	330.9792	26.81	0.000							0.5
23	48 FUNCTION1 PFK	330.9792	26.11	0.000							1.5
24	48 FUNCTION1 PFK	330.9792	25.87	0.000							0.6
25	48 FUNCTION1 PFK	330.9792	25.51	0.000							0.7
26	48 FUNCTION1 PFK	330.9792	25.36	0.000							1.2
27	48 FUNCTION1 PFK	330.9792	25.23	0.000							0.6
28	48 FUNCTION1 PFK	330.9792	25.12	0.000							1.1
29	48 FUNCTION1 PFK	330.9792	25.02	0.000							0.8
30	48 FUNCTION1 PFK	330.9792	24.85	0.000							0.9
31	48 FUNCTION1 PFK	330.9792	24.58	0.000							1.1

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
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ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	27.97	0.000		0.000					3.5
2	49 FUNCTION2 PFK	366.9792	29.39	0.000		0.000					0.8
3	49 FUNCTION2 PFK	366.9792	29.37	0.000		0.000					0.7
4	49 FUNCTION2 PFK	366.9792	29.26	0.000		0.000					1.0
5	49 FUNCTION2 PFK	366.9792	29.11	0.000		0.000					0.7
6	49 FUNCTION2 PFK	366.9792	29.06	0.000		0.000					1.3
7	49 FUNCTION2 PFK	366.9792	29.03	0.000		0.000					1.6
8	49 FUNCTION2 PFK	366.9792	28.96	0.000		0.000					1.7
9	49 FUNCTION2 PFK	366.9792	28.60	0.000		0.000					1.0
10	49 FUNCTION2 PFK	366.9792	28.56	0.000		0.000					1.4
11	49 FUNCTION2 PFK	366.9792	28.39	0.000		0.000					0.8
12	49 FUNCTION2 PFK	366.9792	28.35	0.000		0.000					2.2
13	49 FUNCTION2 PFK	366.9792	28.31	0.000		0.000					2.3
14	49 FUNCTION2 PFK	366.9792	28.27	0.000		0.000					2.6
15	49 FUNCTION2 PFK	366.9792	28.22	0.000		0.000					2.5
16	49 FUNCTION2 PFK	366.9792	28.11	0.000		0.000					3.0
17	49 FUNCTION2 PFK	366.9792	28.04	0.000		0.000					3.6
18	49 FUNCTION2 PFK	366.9792	30.86	0.000		0.000					0.6
19	49 FUNCTION2 PFK	366.9792	30.61	0.000		0.000					1.2
20	49 FUNCTION2 PFK	366.9792	30.59	0.000		0.000					1.2
21	49 FUNCTION2 PFK	366.9792	30.49	0.000		0.000					2.5
22	49 FUNCTION2 PFK	366.9792	30.38	0.000		0.000					1.5
23	49 FUNCTION2 PFK	366.9792	30.35	0.000		0.000					0.9
24	49 FUNCTION2 PFK	366.9792	30.20	0.000		0.000					1.5
25	49 FUNCTION2 PFK	366.9792	30.16	0.000		0.000					1.7
26	49 FUNCTION2 PFK	366.9792	29.99	0.000		0.000					1.1
27	49 FUNCTION2 PFK	366.9792	29.90	0.000		0.000					0.4
28	49 FUNCTION2 PFK	366.9792	29.73	0.000		0.000					1.1
29	49 FUNCTION2 PFK	366.9792	29.63	0.000		0.000					1.0
30	49 FUNCTION2 PFK	366.9792	29.59	0.000		0.000					0.7
31	49 FUNCTION2 PFK	366.9792	29.55	0.000		0.000					0.8
32	49 FUNCTION2 PFK	366.9792	29.49	0.000		0.000					0.9
33	49 FUNCTION2 PFK	366.9792	29.45	0.000		0.000					0.9
34	49 FUNCTION2 PFK	366.9792	31.85	0.000		0.000					1.8
35	49 FUNCTION2 PFK	366.9792	31.74	0.000		0.000					2.0
36	49 FUNCTION2 PFK	366.9792	31.61	0.000		0.000					0.8
37	49 FUNCTION2 PFK	366.9792	31.56	0.000		0.000					1.3
38	49 FUNCTION2 PFK	366.9792	31.50	0.000		0.000					1.2
39	49 FUNCTION2 PFK	366.9792	31.44	0.000		0.000					1.6
40	49 FUNCTION2 PFK	366.9792	31.40	0.000		0.000					2.1
41	49 FUNCTION2 PFK	366.9792	31.36	0.000		0.000					1.8
42	49 FUNCTION2 PFK	366.9792	31.32	0.000		0.000					0.8
43	49 FUNCTION2 PFK	366.9792	31.29	0.000		0.000					1.5
44	49 FUNCTION2 PFK	366.9792	31.21	0.000		0.000					1.5
45	49 FUNCTION2 PFK	366.9792	31.17	0.000		0.000					1.0
46	49 FUNCTION2 PFK	366.9792	31.11	0.000		0.000					1.5
47	49 FUNCTION2 PFK	366.9792	31.04	0.000		0.000					1.3
48	49 FUNCTION2 PFK	366.9792	30.97	0.000		0.000					1.2
49	49 FUNCTION2 PFK	366.9792	30.94	0.000		0.000					1.1
50	49 FUNCTION2 PFK	366.9792	32.57	0.000		0.000					1.4
51	49 FUNCTION2 PFK	366.9792	32.54	0.000		0.000					0.6

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
52	49 FUNCTION2 PFK	366.9792	32.47	0.000		0.000					1.5
53	49 FUNCTION2 PFK	366.9792	32.32	0.000		0.000					1.6
54	49 FUNCTION2 PFK	366.9792	32.26	0.000		0.000					2.3
55	49 FUNCTION2 PFK	366.9792	32.14	0.000		0.000					2.5
56	49 FUNCTION2 PFK	366.9792	32.07	0.000		0.000					1.3
57	49 FUNCTION2 PFK	366.9792	32.01	0.000		0.000					1.5
58	49 FUNCTION2 PFK	366.9792	31.91	0.000		0.000					1.5

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	37.67	0.000		0.000					5.1

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	38.64	0.000							8.3
2	51 FUNCTION4 PFK	430.9728	38.45	0.000							7.0
3	51 FUNCTION4 PFK	430.9728	38.24	0.000							5.7
4	51 FUNCTION4 PFK	430.9728	38.18	0.000							7.5
5	51 FUNCTION4 PFK	430.9728	43.61	0.000							1.4
6	51 FUNCTION4 PFK	430.9728	43.54	0.000							1.5
7	51 FUNCTION4 PFK	430.9728	43.30	0.000							2.2
8	51 FUNCTION4 PFK	430.9728	42.91	0.000							1.3
9	51 FUNCTION4 PFK	430.9728	42.12	0.000							1.3
10	51 FUNCTION4 PFK	430.9728	41.88	0.000							0.8
11	51 FUNCTION4 PFK	430.9728	41.48	0.000							1.2
12	51 FUNCTION4 PFK	430.9728	41.14	0.000							1.8
13	51 FUNCTION4 PFK	430.9728	40.42	0.000							2.8
14	51 FUNCTION4 PFK	430.9728	40.35	0.000							1.1
15	51 FUNCTION4 PFK	430.9728	40.03	0.000							2.0
16	51 FUNCTION4 PFK	430.9728	39.61	0.000							1.8
17	51 FUNCTION4 PFK	430.9728	39.52	0.000							2.5
18	51 FUNCTION4 PFK	430.9728	39.05	0.000							6.1
19	51 FUNCTION4 PFK	430.9728	38.88	0.000							7.9
20	51 FUNCTION4 PFK	430.9728	38.70	0.000							8.5
21	51 FUNCTION4 PFK	430.9728	44.22	0.000							1.1
22	51 FUNCTION4 PFK	430.9728	43.66	0.000							1.4

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	45.83	0.000							0.6
2	52 FUNCTION5 PFK	480.9696	45.79	0.000							1.3
3	52 FUNCTION5 PFK	480.9696	45.66	0.000							1.0
4	52 FUNCTION5 PFK	480.9696	45.57	0.000							1.2
5	52 FUNCTION5 PFK	480.9696	45.46	0.000							1.1
6	52 FUNCTION5 PFK	480.9696	45.39	0.000							1.2
7	52 FUNCTION5 PFK	480.9696	45.34	0.000							1.4
8	52 FUNCTION5 PFK	480.9696	45.22	0.000							0.9
9	52 FUNCTION5 PFK	480.9696	45.17	0.000							1.7
10	52 FUNCTION5 PFK	480.9696	45.06	0.000							1.5
11	52 FUNCTION5 PFK	480.9696	44.77	0.000							4.3
12	52 FUNCTION5 PFK	480.9696	44.74	0.000							5.4
13	52 FUNCTION5 PFK	480.9696	44.57	0.000							11.9
14	52 FUNCTION5 PFK	480.9696	47.91	0.000							2.0
15	52 FUNCTION5 PFK	480.9696	47.64	0.000							0.8
16	52 FUNCTION5 PFK	480.9696	47.53	0.000							0.9
17	52 FUNCTION5 PFK	480.9696	47.49	0.000							1.4
18	52 FUNCTION5 PFK	480.9696	47.40	0.000							1.4
19	52 FUNCTION5 PFK	480.9696	47.37	0.000							1.2
20	52 FUNCTION5 PFK	480.9696	47.10	0.000							1.4
21	52 FUNCTION5 PFK	480.9696	47.03	0.000							0.9
22	52 FUNCTION5 PFK	480.9696	46.90	0.000							1.6
23	52 FUNCTION5 PFK	480.9696	46.81	0.000							1.3
24	52 FUNCTION5 PFK	480.9696	46.66	0.000							0.4
25	52 FUNCTION5 PFK	480.9696	46.62	0.000							1.1
26	52 FUNCTION5 PFK	480.9696	46.46	0.000							0.5
27	52 FUNCTION5 PFK	480.9696	46.21	0.000							0.6
28	52 FUNCTION5 PFK	480.9696	46.18	0.000							1.7
29	52 FUNCTION5 PFK	480.9696	45.98	0.000							1.2
30	52 FUNCTION5 PFK	480.9696	49.24	0.000							0.5
31	52 FUNCTION5 PFK	480.9696	49.17	0.000							1.5
32	52 FUNCTION5 PFK	480.9696	49.14	0.000							0.9
33	52 FUNCTION5 PFK	480.9696	49.02	0.000							1.1
34	52 FUNCTION5 PFK	480.9696	48.98	0.000							0.6
35	52 FUNCTION5 PFK	480.9696	48.95	0.000							1.2
36	52 FUNCTION5 PFK	480.9696	48.73	0.000							0.7
37	52 FUNCTION5 PFK	480.9696	48.06	0.000							0.4

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	23.21	0.000		0.000					4.5
2	53 FUNCTION1 HXCD...	375.8364	22.45	0.000		0.000					3.6
3	53 FUNCTION1 HXCD...	375.8364	22.10	0.000		0.000					3.6

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	24.33	0.000		0.000					2.6
2	54 FUNCTION1 HPCD...	409.7974	23.39	0.000		0.000					2.4
3	54 FUNCTION1 HPCD...	409.7974	22.66	0.000		0.000					1.7
4	54 FUNCTION1 HPCD...	409.7974	27.39	0.000		0.000					1.3
5	54 FUNCTION1 HPCD...	409.7974	26.97	0.000		0.000					1.7
6	54 FUNCTION1 HPCD...	409.7974	26.30	0.000		0.000					2.0
7	54 FUNCTION1 HPCD...	409.7974	26.03	0.000		0.000					0.9
8	54 FUNCTION1 HPCD...	409.7974	25.94	0.000		0.000					1.7
9	54 FUNCTION1 HPCD...	409.7974	25.81	0.000		0.000					1.7
10	54 FUNCTION1 HPCD...	409.7974	25.26	0.000		0.000					1.8

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	31.35	0.000		0.000					2.3
2	55 FUNCTION2 HPCD...	409.7974	31.24	0.000		0.000					1.2
3	55 FUNCTION2 HPCD...	409.7974	31.15	0.000		0.000					1.9
4	55 FUNCTION2 HPCD...	409.7974	30.71	0.000		0.000					1.4
5	55 FUNCTION2 HPCD...	409.7974	30.54	0.000		0.000					1.7
6	55 FUNCTION2 HPCD...	409.7974	29.91	0.000		0.000					2.2
7	55 FUNCTION2 HPCD...	409.7974	28.47	0.000		0.000					2.9
8	55 FUNCTION2 HPCD...	409.7974	28.35	0.000		0.000					4.1
9	55 FUNCTION2 HPCD...	409.7974	31.75	0.000		0.000					3.0

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS6

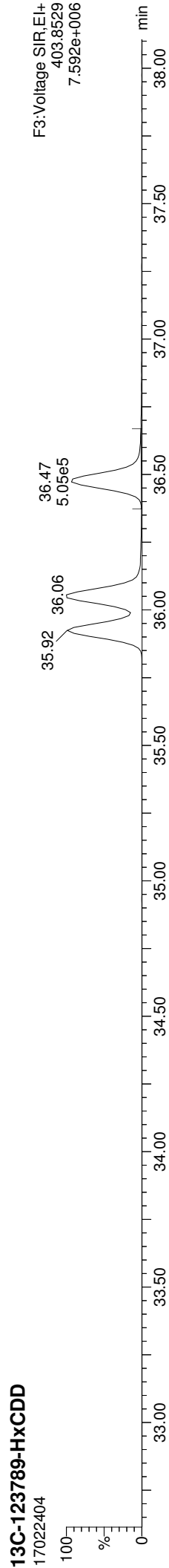
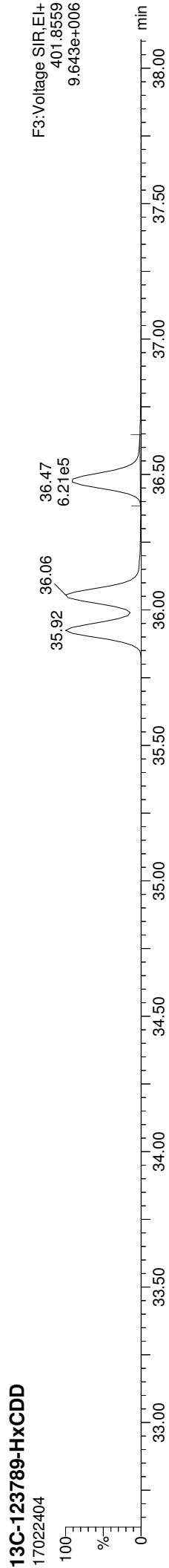
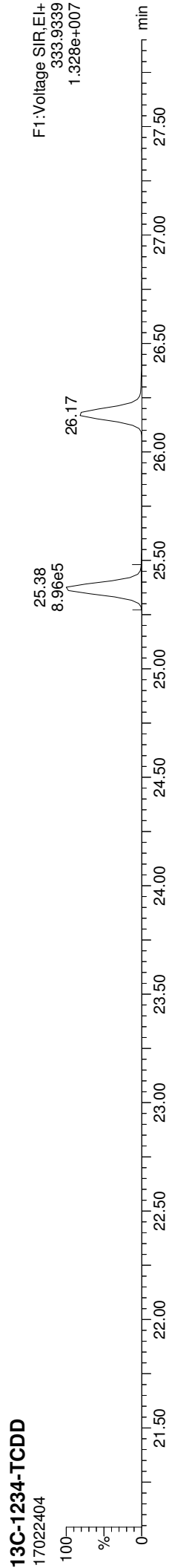
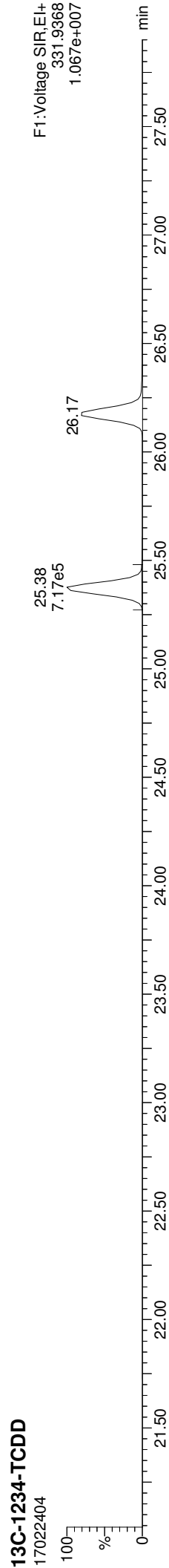
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Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
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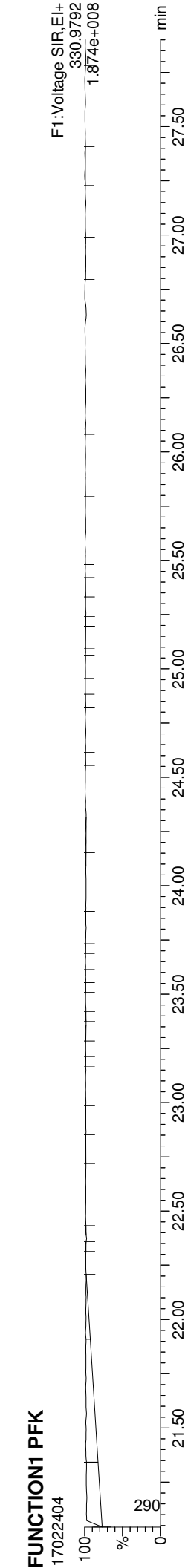
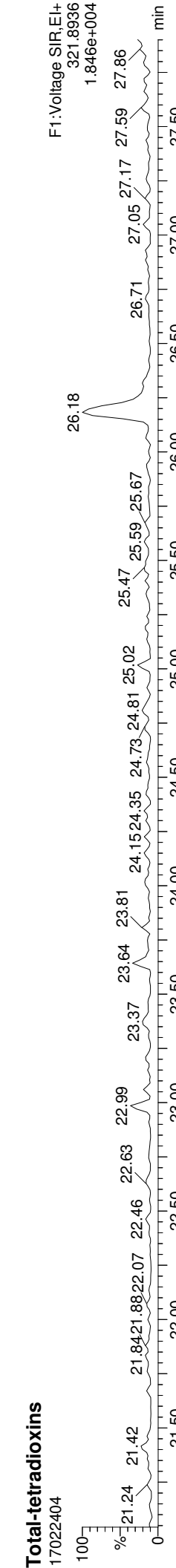
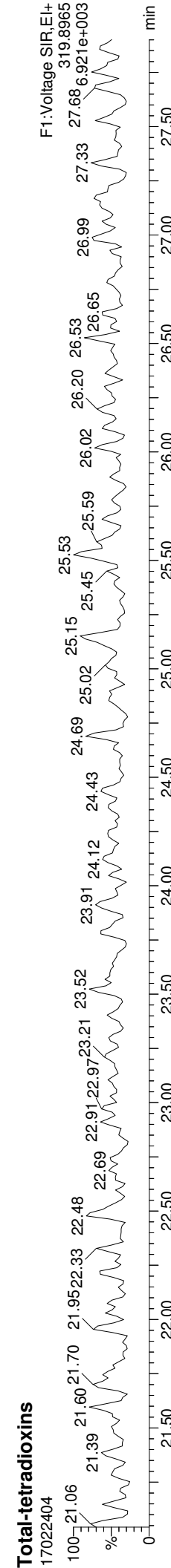
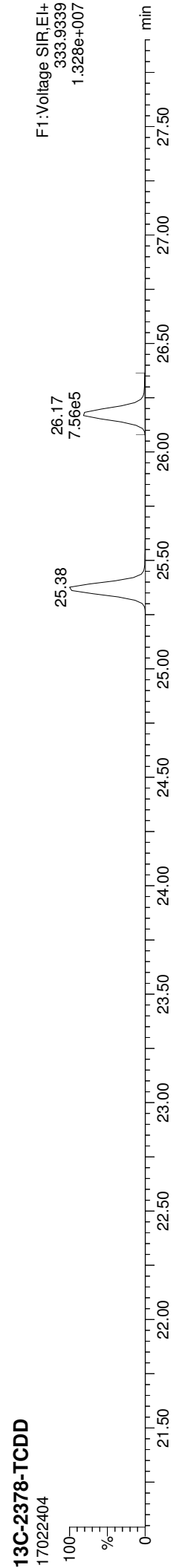
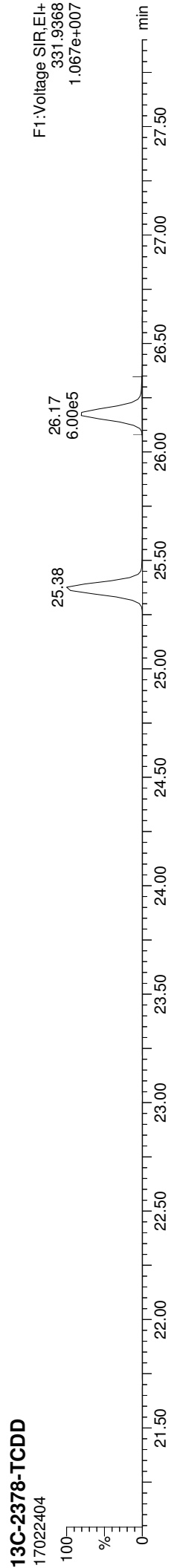
ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK



Quantify Sample Report

MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

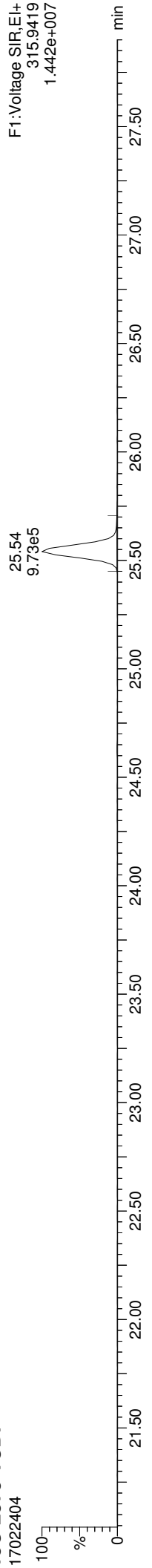


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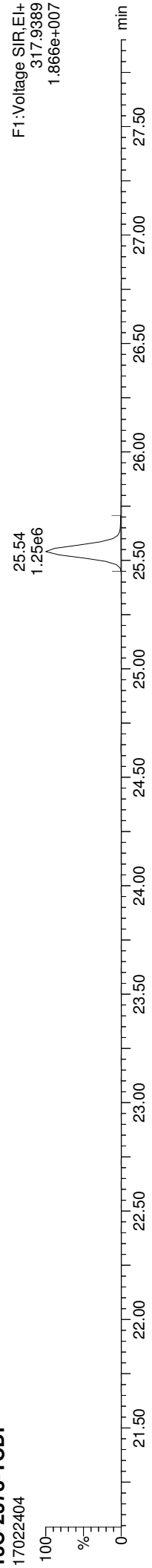
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Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

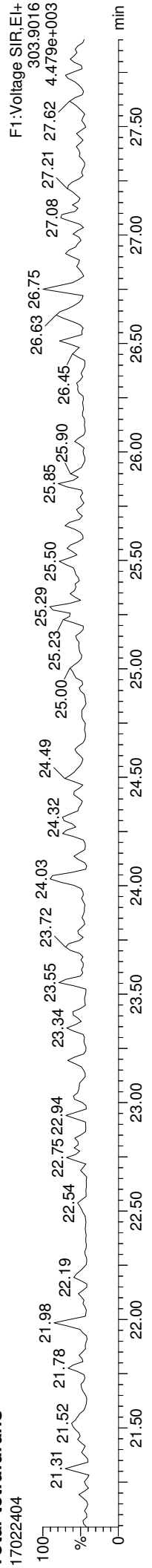
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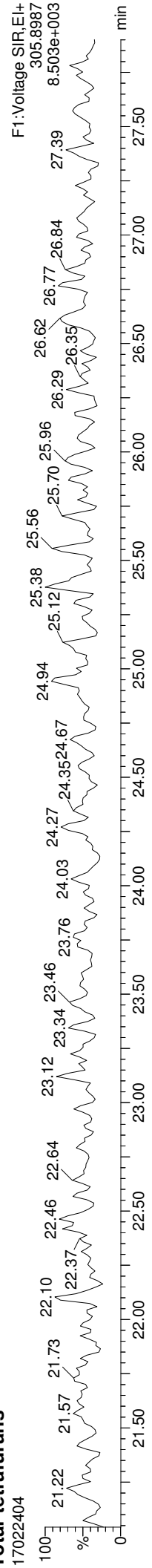
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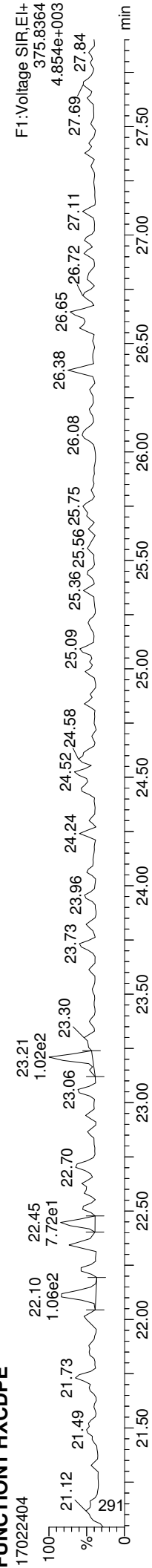
Total-tetrafurans



Total-tetrafurans



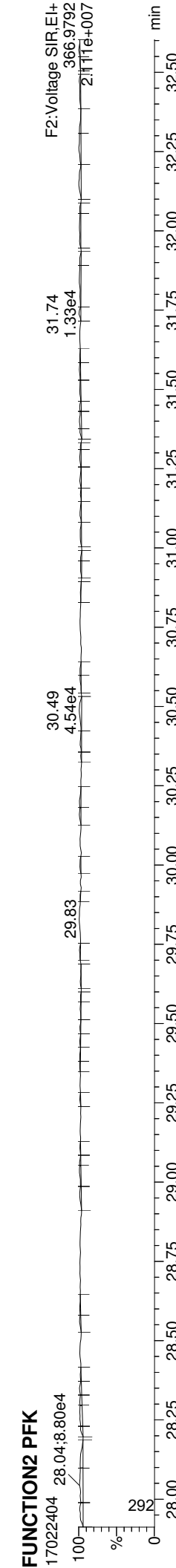
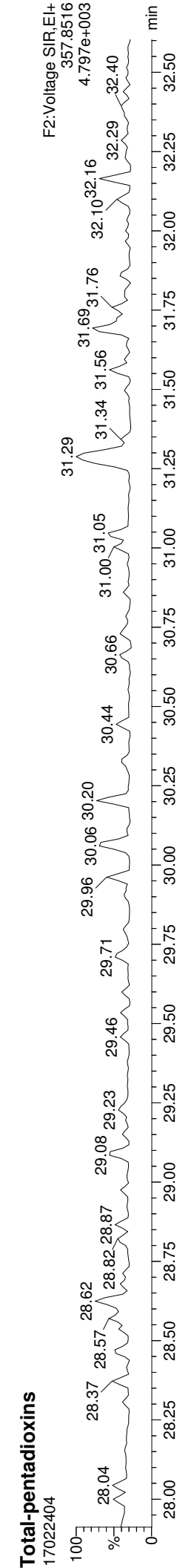
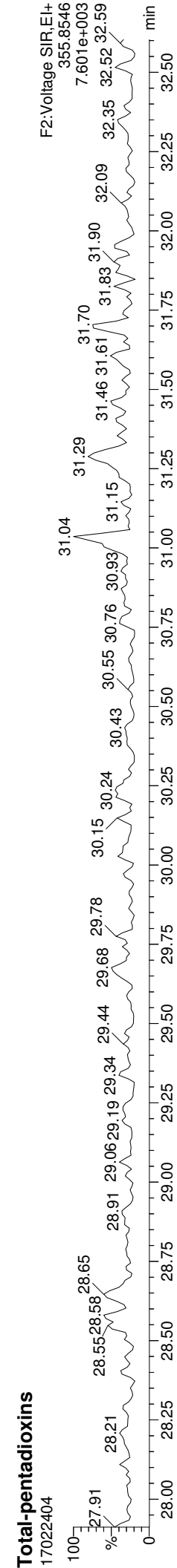
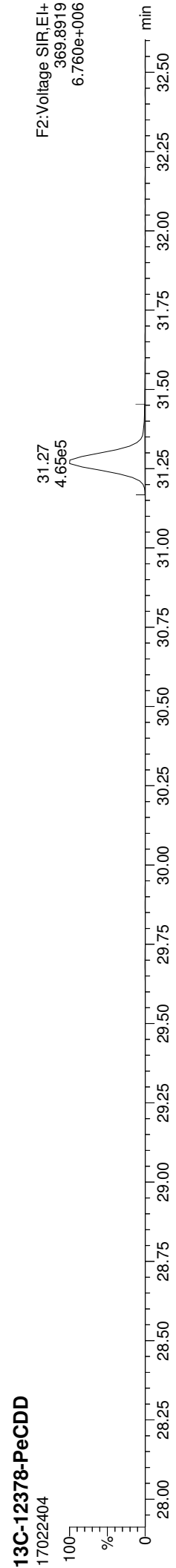
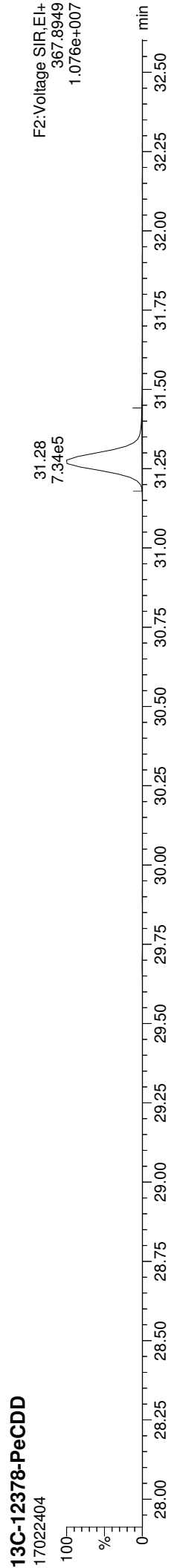
FUNCTION1 HXCDFE



Quantify Sample Report
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

MassLynx MassLynx V4.1 SCN909

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

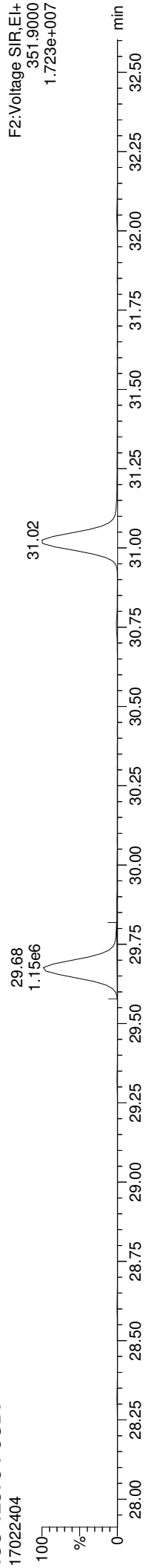


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

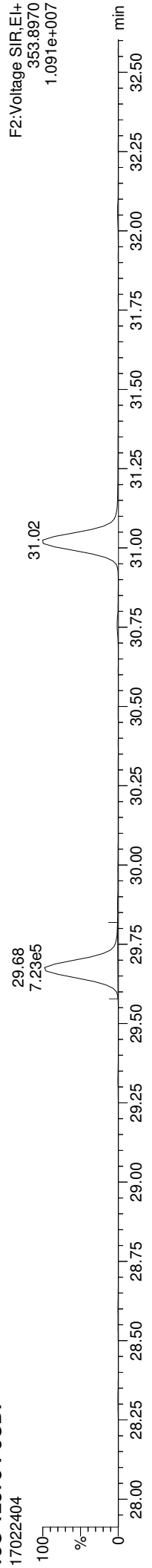
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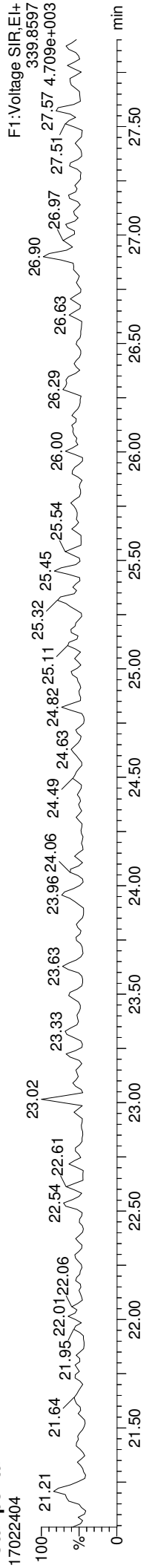
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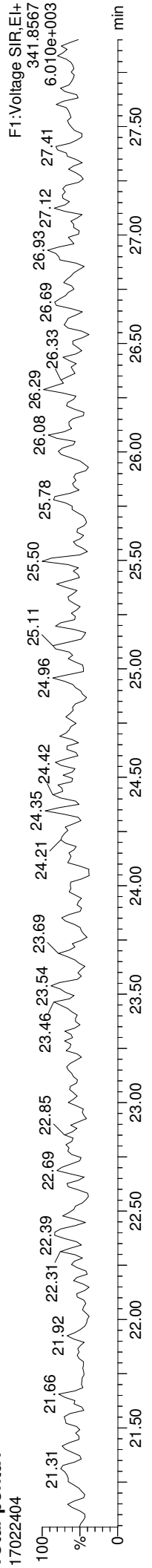
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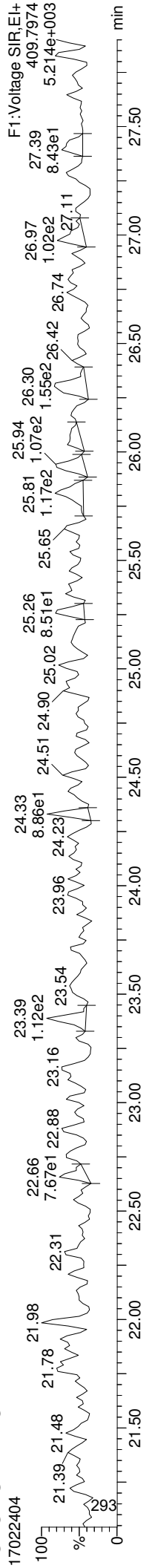
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

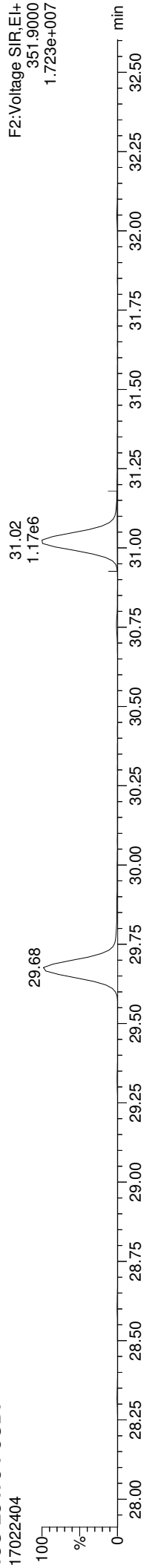


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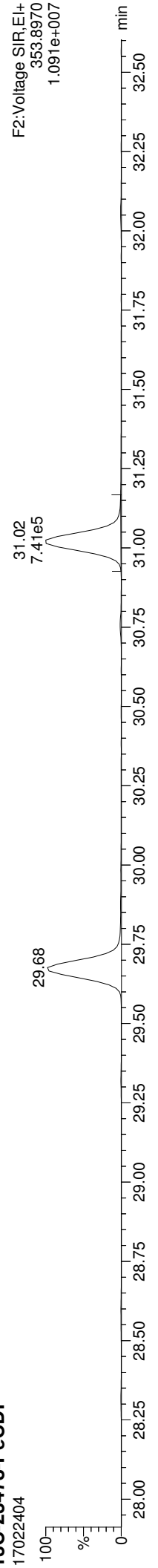
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

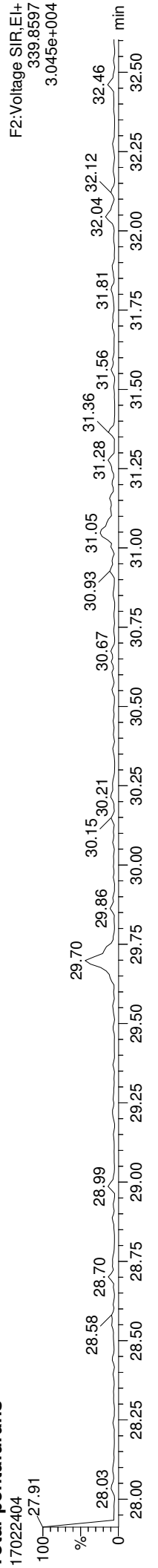
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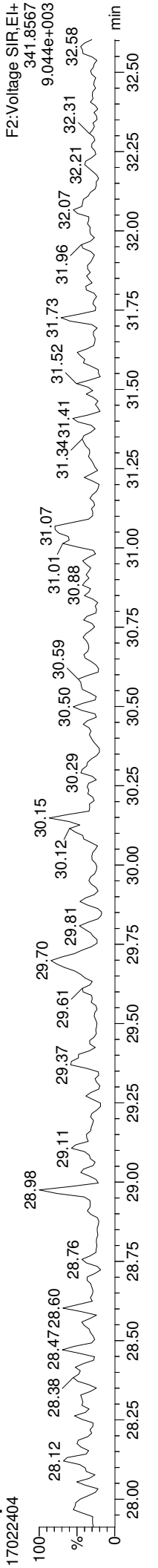
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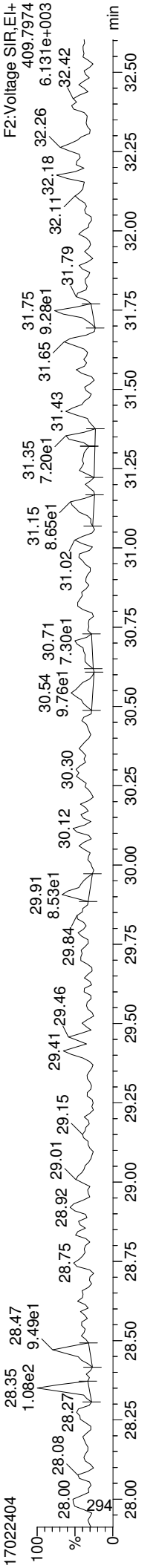
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

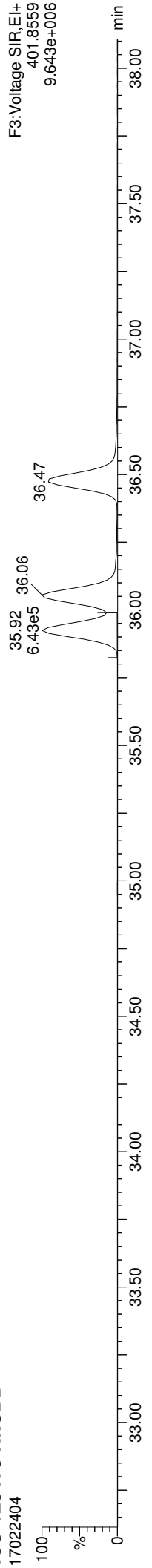


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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
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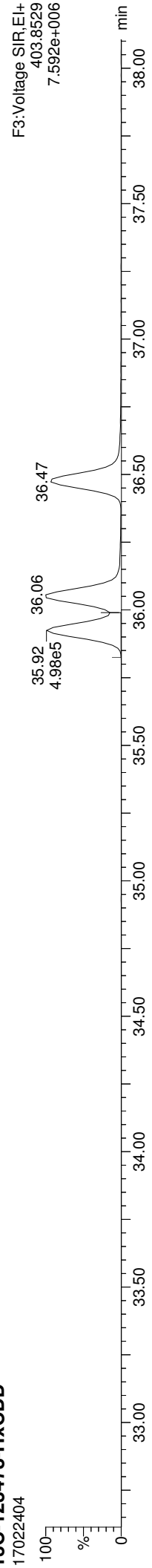
MassLynx MassLynx V4.1 SCN909

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

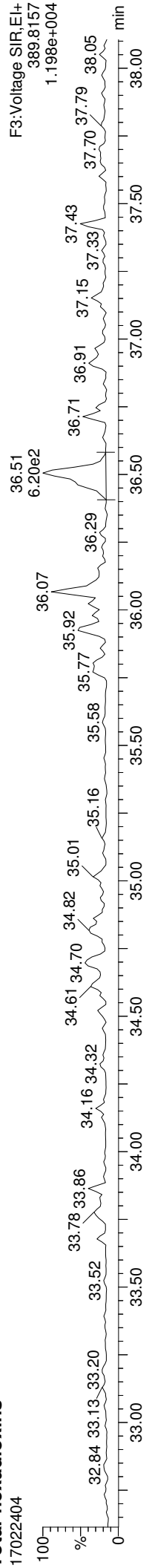
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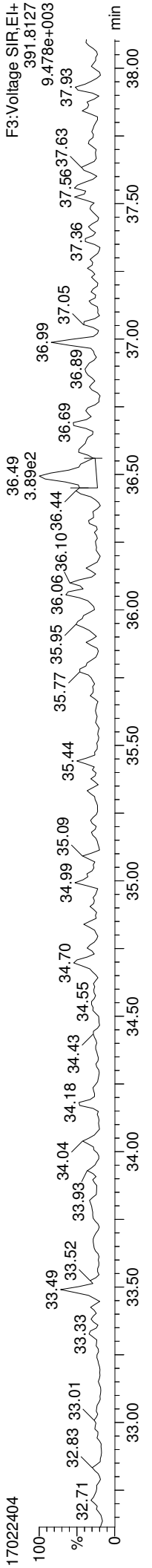
13C-123478-HxCDD



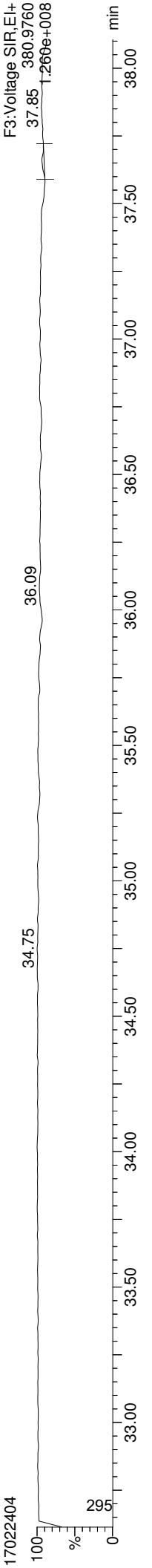
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



Quantify Sample Report

MassLynx MassLynx V4.1 SCN909

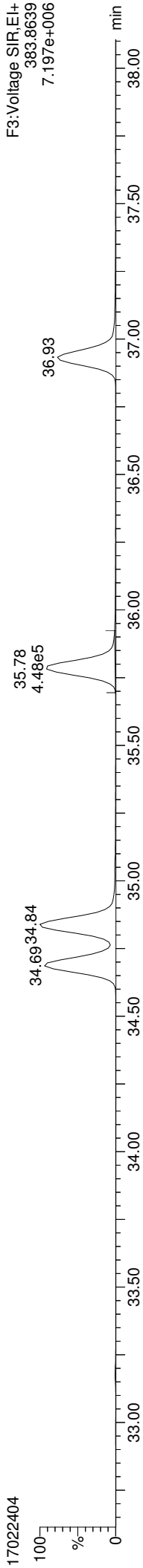
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld

Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time

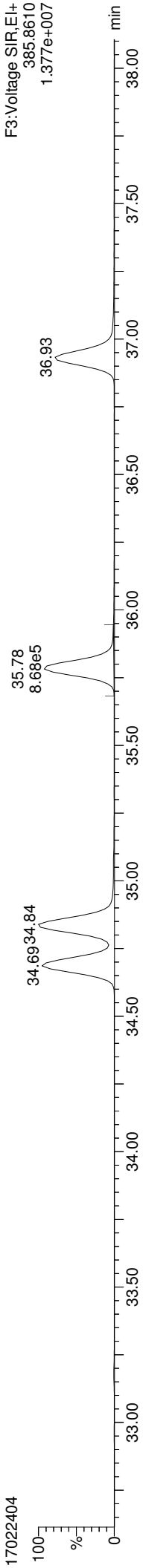
Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

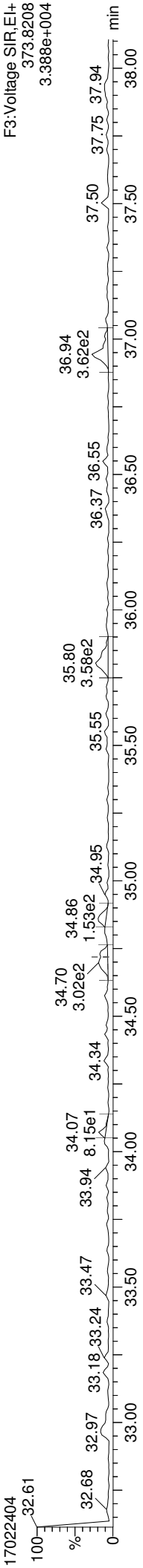
13C-234678-HxCDF



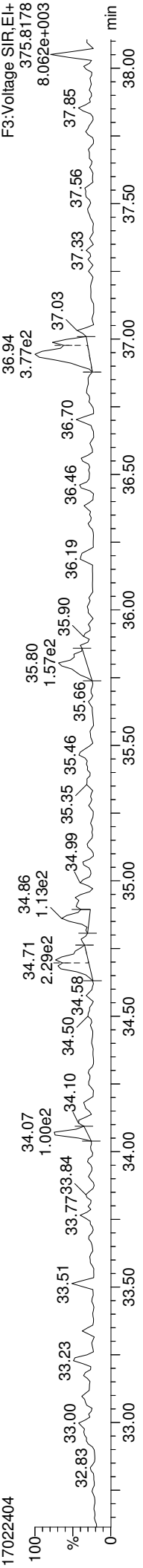
13C-234678-HxCDF



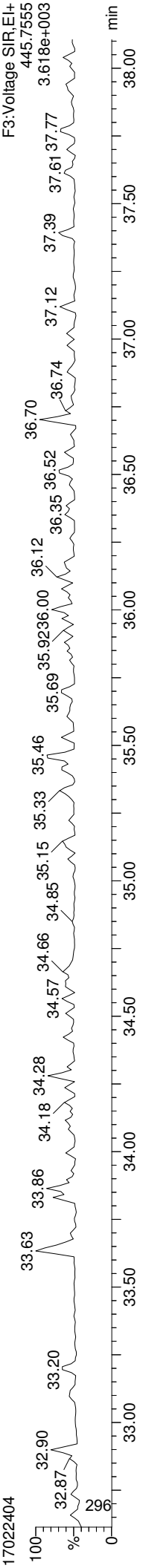
Total-hexafurans



Total-hexafurans



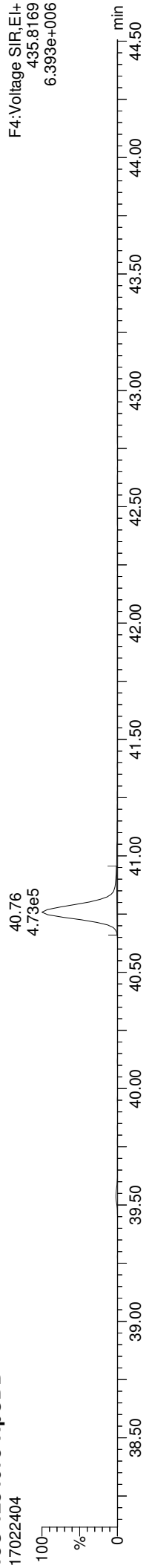
FUNCTION3 OCDPE



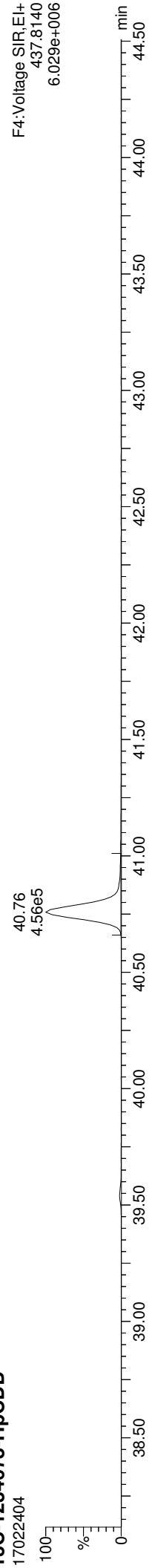
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

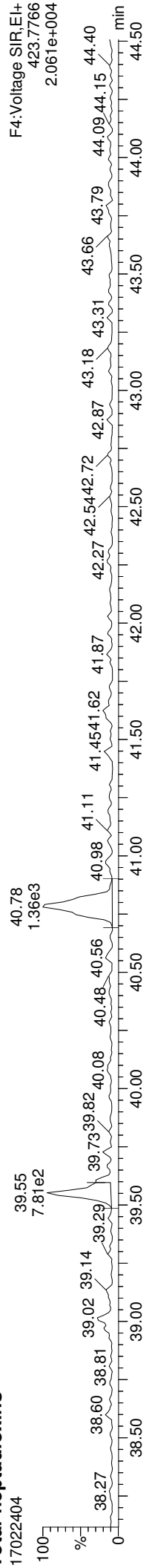
13C-1234678-HpCDD



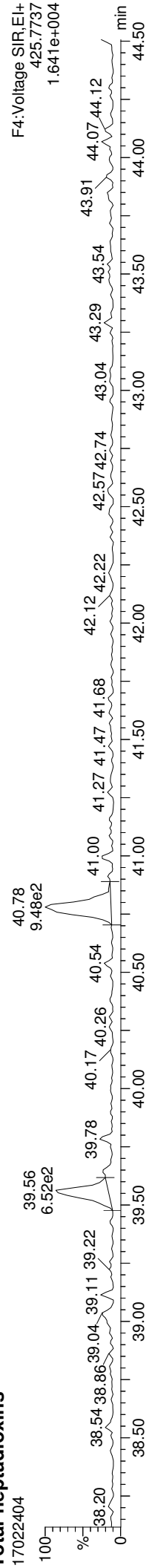
13C-1234678-HpCDD



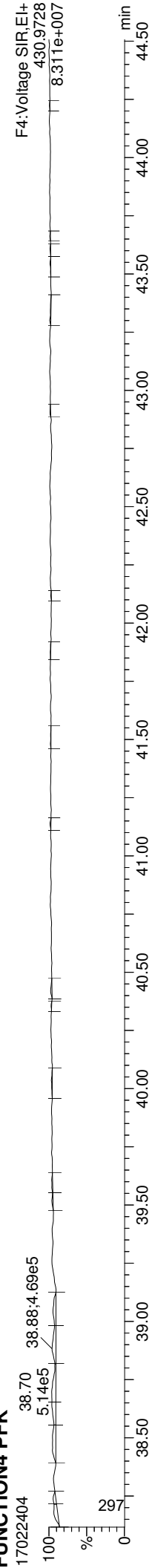
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

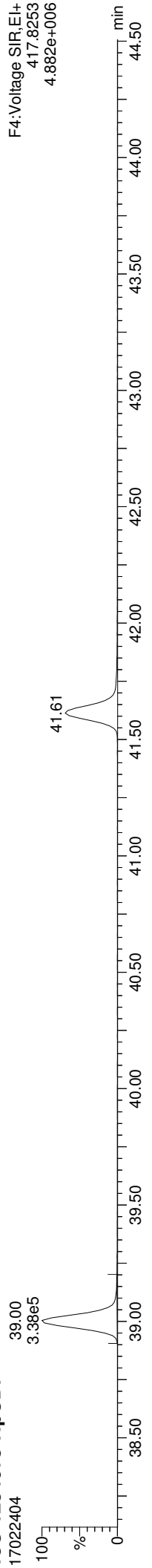


Quantify Sample Report

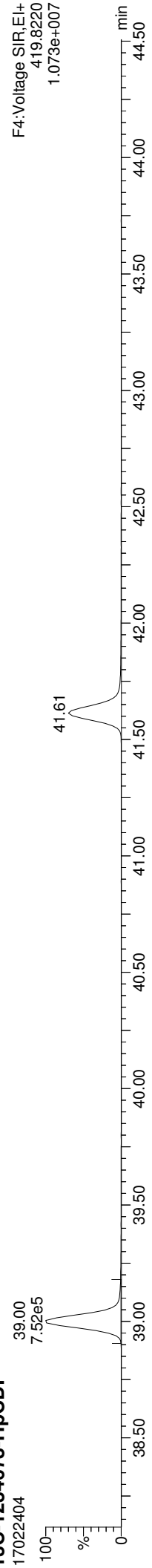
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

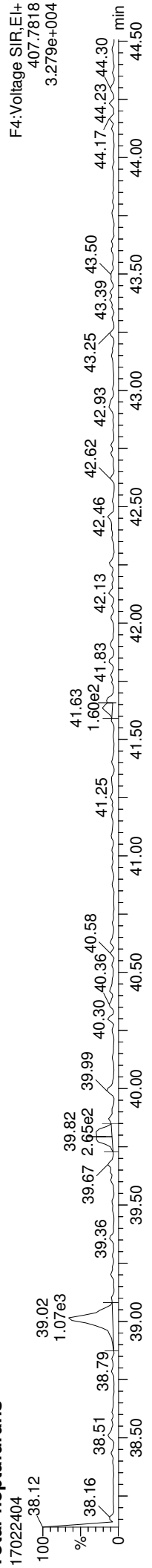
13C-1234678-HpCDF



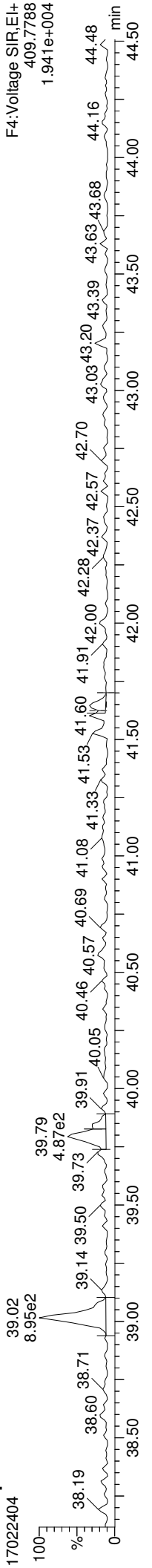
13C-1234678-HpCDF



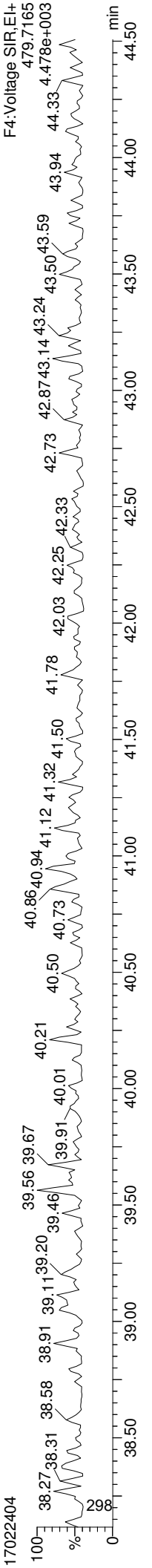
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

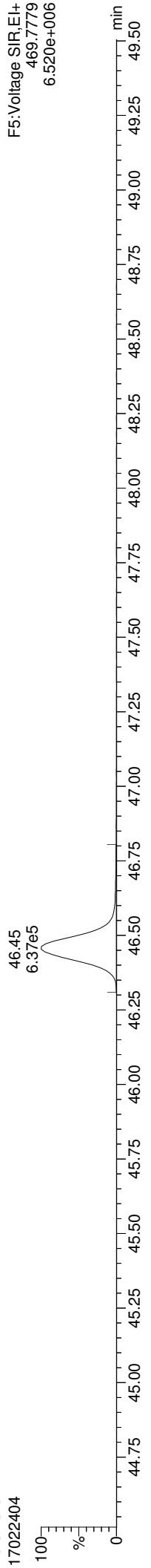


Quantify Sample Report

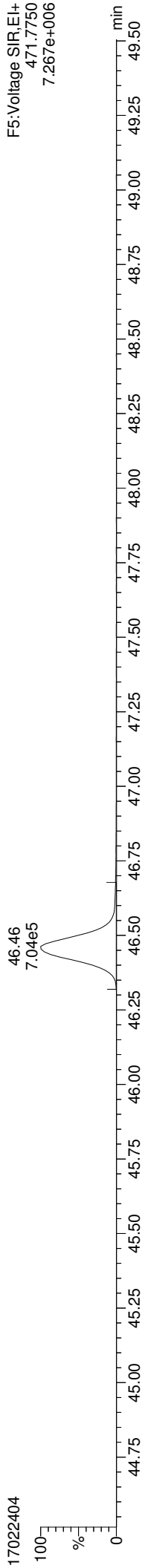
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

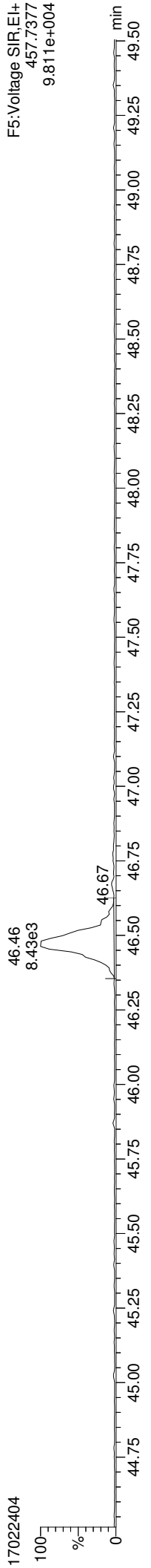
13C-OCDD



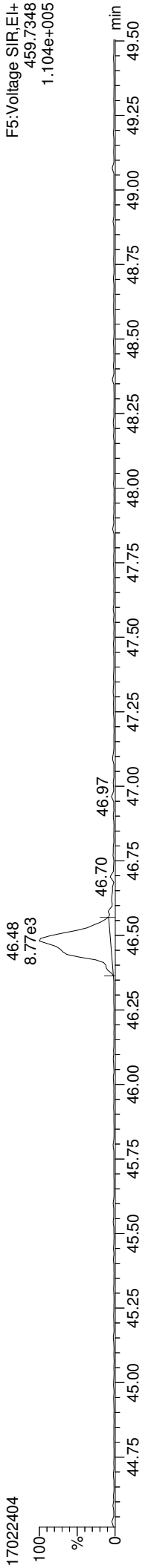
13C-OCDD



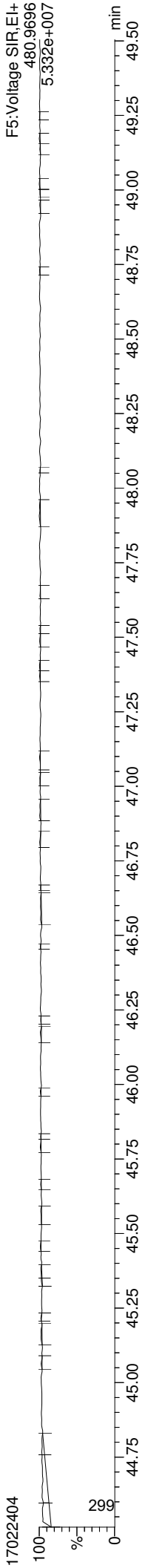
OCDD



OCDD



FUNCTION5 PFK



F5: Voltage SIR, EI+
469.7779
6.520e+006

F5: Voltage SIR, EI+
471.7750
7.267e+006

F5: Voltage SIR, EI+
457.7377
9.811e+004

F5: Voltage SIR, EI+
459.7348
1.104e+005

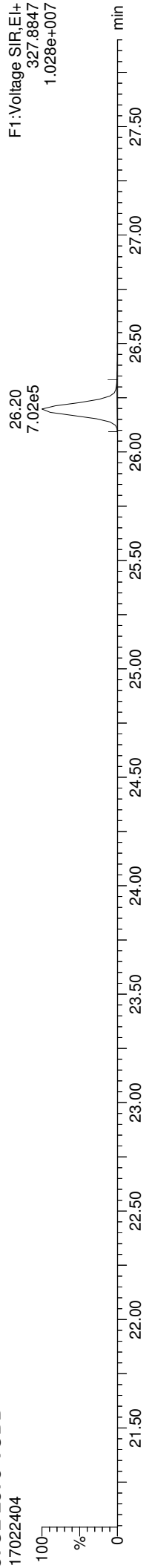
F5: Voltage SIR, EI+
480.9696
5.332e+007

Quantify Sample Report

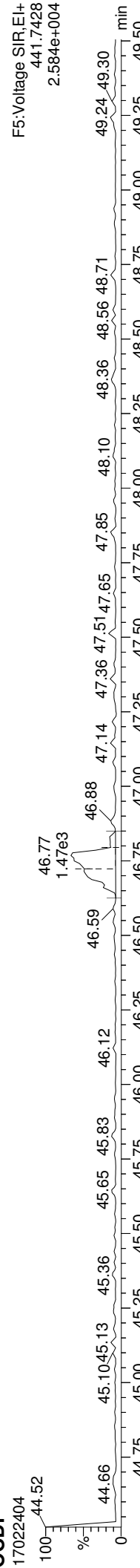
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.dld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:48 Pacific Standard Time

ID: BFB0538-BLK1, Name: 17022404, Date: 24-Feb-2017, Time: 15:52:45, Conditions: AUTOSPEC01, User: PK

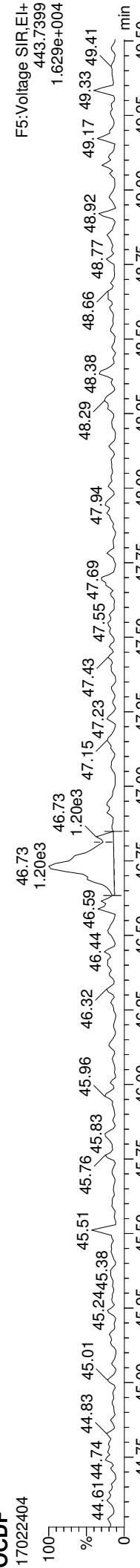
37CL-2378-TCDD



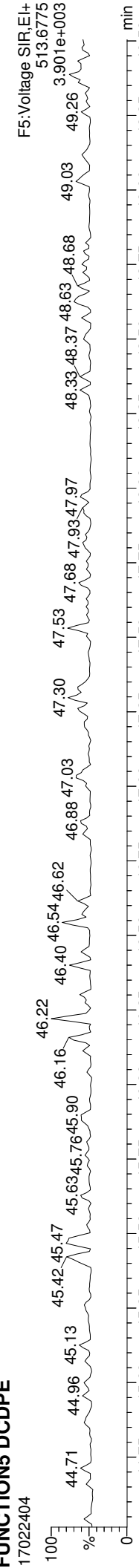
OCDF



OCDF



FUNCTION5 DCDPE





LCS / LCS DUPLICATE RECOVERY
EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 17A0053

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue

Analyzed: 02/08/17 14:03

Batch: BFA0657

Laboratory ID: BFA0657-BS1

Preparation: EPA 1613

Initial/Final: 10 g / 20 uL

COMPOUND	SPIKE ADDED (ng/kg)	LCS CONCENTRATION (ng/kg)	LCS % REC.	QC LIMITS REC.	Q
2,3,7,8-TCDF	20.0	20.0	100	75 - 158	
2,3,7,8-TCDD	20.0	20.1	100	67 - 158	
1,2,3,7,8-PeCDF	100	98.5	98.5	80 - 134	
2,3,4,7,8-PeCDF	100	95.0	95.0	68 - 160	
1,2,3,7,8-PeCDD	100	95.8	95.8	70 - 142	
1,2,3,4,7,8-HxCDF	100	98.5	98.5	72 - 134	
1,2,3,6,7,8-HxCDF	100	99.0	99.0	84 - 130	
2,3,4,6,7,8-HxCDF	100	97.8	97.8	70 - 156	
1,2,3,7,8,9-HxCDF	100	98.7	98.7	78 - 130	
1,2,3,4,7,8-HxCDD	100	101	101	70 - 164	
1,2,3,6,7,8-HxCDD	100	100	100	76 - 134	
1,2,3,7,8,9-HxCDD	100	103	103	64 - 162	
1,2,3,4,6,7,8-HpCDF	100	104	104	82 - 122	
1,2,3,4,7,8,9-HpCDF	100	98.9	98.9	78 - 138	
1,2,3,4,6,7,8-HpCDD	100	98.0	98.0	70 - 140	
OCDF	200	206	103	63 - 170	
OCDD	200	202	101	78 - 144	
13C12-2,3,7,8-TCDF	200	183	91.4	24 - 169	

Labels

13C12-2,3,7,8-TCDD	200	190	94.8	25 - 164	
13C12-1,2,3,7,8-PeCDF	200	196	97.9	24 - 185	
13C12-2,3,4,7,8-PeCDF	200	205	102	21 - 178	
13C12-1,2,3,7,8-PeCDD	200	214	107	25 - 181	
13C12-1,2,3,4,7,8-HxCDF	200	158	79.1	26 - 152	
13C12-1,2,3,6,7,8-HxCDF	200	159	79.5	26 - 123	
13C12-2,3,4,6,7,8-HxCDF	200	167	83.3	28 - 136	
13C12-1,2,3,7,8,9-HxCDF	200	181	90.3	29 - 147	
13C12-1,2,3,4,7,8-HxCDD	200	173	86.5	32 - 141	
13C12-1,2,3,6,7,8-HxCDD	200	170	85.1	28 - 130	
13C12-1,2,3,4,6,7,8-HpCDF	200	148	74.0	28 - 143	
13C12-1,2,3,4,7,8,9-HpCDF	200	191	95.6	26 - 138	
13C12-1,2,3,4,6,7,8-HpCDD	200	185	92.6	23 - 140	
13C12-OCDD	400	387	96.7	17 - 157	
37C14-2,3,7,8-TCDD	80.0	79.6	99.5	35 - 197	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF	26.123	1.001	1.20e5	1.57e5	0.924	0.762	0.770	1099	1031	1.74e6	2.31e6	1583.4	NO	10.005
12378-PeCDF	30.283	1.000	7.67e5	5.03e5	0.954	1.524	1.550	3070	2068	1.16e7	7.65e6	3789.0	NO	49.251
23478-PeCDF	31.632	1.000	7.74e5	5.05e5	0.966	1.531	1.550	3070	2068	1.18e7	7.75e6	3831.6	NO	47.489
123478-HxCDF	35.315	1.000	6.34e5	5.19e5	1.141	1.222	1.240	3477	3299	9.58e6	7.79e6	2756.3	NO	49.237
234678-HxCDF	36.411	1.000	6.51e5	5.25e5	1.181	1.241	1.240	3477	3299	9.58e6	7.76e6	2756.1	NO	48.906
123678-HxCDF	35.468	1.001	6.65e5	5.41e5	1.089	1.229	1.240	3477	3299	9.85e6	7.98e6	2834.2	NO	49.504
123789-HxCDF	37.562	1.001	5.47e5	4.50e5	1.110	1.216	1.240	3477	3299	8.19e6	6.66e6	2356.6	NO	49.366
1234678-HpCDF	39.633	1.000	5.22e5	5.07e5	1.267	1.029	1.050	2900	3128	7.57e6	7.46e6	2609.7	NO	52.220
1234789-HpCDF	42.363	1.001	4.31e5	4.09e5	1.295	1.054	1.050	2900	3128	5.41e6	5.27e6	1865.7	NO	49.441
OCDF	47.695	1.006	5.90e5	6.70e5	1.067	0.881	0.890	1431	1519	5.95e6	6.70e6	4158.2	NO	102.812
2378-TCDD	26.765	1.001	8.97e4	1.17e5	1.150	0.767	0.770	1616	911	1.31e6	1.71e6	807.4	NO	10.036
12378-PeCDD	31.884	1.000	5.18e5	3.34e5	1.017	1.553	1.550	1917	855	7.75e6	4.96e6	4043.8	NO	47.875
123478-HxCDD	36.553	1.001	5.00e5	3.94e5	1.017	1.270	1.240	1855	1774	7.43e6	5.78e6	4003.5	NO	50.688
123678-HxCDD	36.674	1.000	4.86e5	3.84e5	0.964	1.265	1.240	1855	1774	7.19e6	5.73e6	3875.6	NO	50.143
123789-HxCDD	37.112	1.012	4.75e5	3.85e5	0.948	1.235	1.240	1855	1774	6.91e6	5.57e6	3723.6	NO	51.355
1234678-HpCDD	41.464	1.000	3.87e5	3.67e5	1.051	1.054	1.050	1938	2281	5.10e6	4.86e6	2630.6	NO	49.010
OCDD	47.408	1.000	5.57e5	6.36e5	1.030	0.875	0.890	1178	2344	5.74e6	6.44e6	4868.9	NO	100.856
13C-2378-TCDF	26.108	1.006	1.31e6	1.69e6	1.515	0.775	0.770	9069	4411	1.93e7	2.48e7	2128.0	NO	91.423
13C-12378-PeCDF	30.272	1.167	1.66e6	1.04e6	1.276	1.598	1.550	3002	4466	2.48e7	1.55e7	8270.1	NO	97.851
13C-23478-PeCDF	31.621	1.219	1.71e6	1.08e6	1.257	1.584	1.550	3002	4466	2.55e7	1.61e7	8507.7	NO	102.446
13C-123478-HxCDF	35.304	0.952	6.96e5	1.36e6	1.431	0.513	0.510	2995	4422	1.05e7	2.06e7	3501.2	NO	79.107
13C-123678-HxCDF	35.446	0.956	7.67e5	1.47e6	1.552	0.522	0.510	2995	4422	1.13e7	2.19e7	3777.6	NO	79.503
13C-234678-HxCDF	36.400	0.981	6.98e5	1.34e6	1.349	0.522	0.510	2995	4422	1.03e7	1.97e7	3439.9	NO	83.264
13C-123789-HxCDF	37.540	1.012	6.28e5	1.19e6	1.111	0.528	0.510	2995	4422	9.57e6	1.81e7	3195.1	NO	90.256
13C-1234678-HpCDF	39.623	1.068	4.82e5	1.07e6	1.160	0.449	0.440	2194	2126	7.09e6	1.58e7	3230.7	NO	73.994
13C-1234789-HpCDF	42.341	1.142	4.10e5	9.02e5	0.758	0.454	0.440	2194	2126	5.12e6	1.14e7	2332.7	NO	95.558
13C-1234-TCDD	25.944	0.000	9.63e5	1.20e6	1.000	0.801	0.770	3182	1624	1.43e7	1.78e7	4478.9	NO	100.000
13C-2378-TCDD	26.750	1.031	7.92e5	9.98e5	0.872	0.794	0.770	3182	1624	1.16e7	1.46e7	3652.8	NO	94.801
13C-12378-PeCDD	31.873	1.229	1.06e6	6.86e5	0.754	1.552	1.550	1644	1838	1.57e7	1.02e7	9569.7	NO	107.152
13C-123478-HxCDD	36.532	0.985	9.73e5	7.62e5	1.106	1.277	1.240	1629	1722	1.47e7	1.15e7	9029.3	NO	86.510
13C-123678-HxCDD	36.663	0.988	1.00e6	7.94e5	1.165	1.264	1.240	1629	1722	1.52e7	1.20e7	9308.4	NO	85.142
13C-1234678-HpCDD	41.453	1.118	7.48e5	7.16e5	0.872	1.046	1.050	2564	2461	9.79e6	9.44e6	3815.8	NO	92.625
13C-OCDD	47.389	1.278	1.09e6	1.20e6	0.655	0.908	0.890	2022	1404	1.12e7	1.25e7	5528.3	NO	193.358
13C-123789-HxCDD	37.090	0.000	1.00e6	8.08e5	1.000	1.244	1.240	1629	1722	1.48e7	1.18e7	9083.2	NO	100.000
Total-tetrafurans			1.23e5		0.924			1099		1.79e6				10.312

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			0.00e0					522		0.00e0				
Total-pentafurans			1.58e6		0.960			3070		2.39e7				99.252
Total-hexafurans			2.51e6		1.130			3477		3.74e7				197.723
Total-heptafurans			9.57e5		1.281			2900		1.30e7				102.151
Total-Furans			5.76e6		1.100			1099		8.21e7				512.250
Total-tetradioxins			9.26e4		1.150			1616		1.34e6				10.344
Total-pentadioxins			5.21e5		1.017			1917		7.79e6				48.071
Total-hexadioxins			1.46e6		0.977			1855		2.15e7				152.186
Total-heptadioxins			3.90e5		1.051			1938		5.14e6				49.387
Total-Dioxins			3.02e6		1.025			1616		4.15e7				360.844
Total-TEQ			8.78e6					1616		1.24e8				873.094
37CL-2378-TCDD	26.765	1.032	9.25e5		1.073			1013		1.34e7		13250.4		39.809
FUNCTION1 PFK			3.97e6					847320		4.09e7				
FUNCTION2 PFK			1.18e5					166645		3.62e6				0.000
FUNCTION3 PFK			3.93e6					593238		2.63e7				0.000
FUNCTION4 PFK			1.01e6					337424		1.06e7				
FUNCTION5 PFK			2.66e5					275537		9.40e6				
FUNCTION1 HXCD...			1.51e2					613		3.95e3				0.000
FUNCTION1 HPCD...			3.97e2					568		8.16e3				0.000
FUNCTION2 HPCD...			2.31e2					753		5.40e3				0.000
FUNCTION3 OCDPE			0.00e0					458		0.00e0				
FUNCTION4 NCDPE			2.25e2					736		5.63e3				0.000
FUNCTION5 DCDPE			0.00e0					617		0.00e0				

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170201.mdb 01 Feb 2017 14:00:04
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	27.68	219.032	0.924	0.008		1.33	0.77	YES	3.6
2	1 2378-TCDF	303.9016	26.12	277266.804	0.924	10.005	10.005	0.76	0.77	NO	1583.4
3	35 Total-tetrafurans	303.9016	25.94	670.557	0.924	0.024		0.84	0.77	NO	4.8
4	35 Total-tetrafurans	303.9016	25.21	2576.132	0.924	0.093		0.57	0.77	YES	12.5
5	35 Total-tetrafurans	303.9016	25.03	2140.335	0.924	0.077		0.39	0.77	YES	8.9
6	35 Total-tetrafurans	303.9016	24.90	2904.885	0.924	0.105		0.72	0.77	NO	15.4

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	2 12378-PeCDF	339.8597	30.28	1270035.594	0.954	49.251	49.251	1.52	1.55	NO	3789.0
2	37 Total-pentafurans	339.8597	29.93	4264.785	0.960	0.162		2.71	1.55	YES	16.2
3	37 Total-pentafurans	339.8597	29.21	12781.674	0.960	0.485		1.87	1.55	YES	31.1
4	37 Total-pentafurans	339.8597	32.67	10455.436	0.960	0.397		1.39	1.55	NO	28.0
5	3 23478-PeCDF	339.8597	31.63	1279195.531	0.966	47.489	47.489	1.53	1.55	NO	3831.6
6	37 Total-pentafurans	339.8597	31.37	1545.889	0.960	0.059		3.04	1.55	YES	5.7
7	37 Total-pentafurans	339.8597	30.60	2634.136	0.960	0.100		1.74	1.55	NO	11.5
8	37 Total-pentafurans	339.8597	30.48	34526.952	0.960	1.310		1.42	1.55	NO	84.2

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7 123789-HxCDF	373.8208	37.56	996151.313	1.110	49.366	49.366	1.22	1.24	NO	2356.6
2	5 234678-HxCDF	373.8208	36.41	1176168.063	1.181	48.906	48.906	1.24	1.24	NO	2756.1
3	6 123678-HxCDF	373.8208	35.47	1205755.938	1.089	49.504	49.504	1.23	1.24	NO	2834.2
4	4 123478-HxCDF	373.8208	35.31	1152334.344	1.141	49.237	49.237	1.22	1.24	NO	2756.3
5	38 Total-hexafurans	373.8208	35.15	1602.150	1.130	0.070		0.96	1.24	YES	5.6
6	38 Total-hexafurans	373.8208	33.80	11558.247	1.130	0.502		1.12	1.24	NO	26.8
7	38 Total-hexafurans	373.8208	33.59	3153.799	1.130	0.137		1.39	1.24	NO	8.4

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	42.36	840429.469	1.295	49.441	49.441	1.05	1.05	NO	1865.7
2	39 Total-heptafurans	407.7818	40.43	7271.974	1.281	0.396		0.90	1.05	NO	16.3
3	39 Total-heptafurans	407.7818	40.15	1743.978	1.281	0.095		0.89	1.05	NO	4.6
4	8 1234678-HpCDF	407.7818	39.63	1028983.157	1.267	52.220	52.220	1.03	1.05	NO	2609.7

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	27.68	219.032	0.924	0.008		1.33	0.77	YES	3.6
2	1 2378-TCDF	303.9016	26.12	277266.804	0.924	10.005	10.005	0.76	0.77	NO	1583.4
3	35 Total-tetrafurans	303.9016	25.94	670.557	0.924	0.024		0.84	0.77	NO	4.8
4	35 Total-tetrafurans	303.9016	25.21	2576.132	0.924	0.093		0.57	0.77	YES	12.5
5	35 Total-tetrafurans	303.9016	25.03	2140.335	0.924	0.077		0.39	0.77	YES	8.9
6	35 Total-tetrafurans	303.9016	24.90	2904.885	0.924	0.105		0.72	0.77	NO	15.4
7	2 12378-PeCDF	339.8597	30.28	1270035.594	0.954	49.251	49.251	1.52	1.55	NO	3789.0
8	37 Total-pentafurans	339.8597	29.93	4264.785	0.960	0.162		2.71	1.55	YES	16.2
9	37 Total-pentafurans	339.8597	29.21	12781.674	0.960	0.485		1.87	1.55	YES	31.1
10	37 Total-pentafurans	339.8597	32.67	10455.436	0.960	0.397		1.39	1.55	NO	28.0
11	3 23478-PeCDF	339.8597	31.63	1279195.531	0.966	47.489	47.489	1.53	1.55	NO	3831.6
12	37 Total-pentafurans	339.8597	31.37	1545.889	0.960	0.059		3.04	1.55	YES	5.7
13	37 Total-pentafurans	339.8597	30.60	2634.136	0.960	0.100		1.74	1.55	NO	11.5
14	37 Total-pentafurans	339.8597	30.48	34526.952	0.960	1.310		1.42	1.55	NO	84.2
15	7 123789-HxCDF	373.8208	37.56	996151.313	1.110	49.366	49.366	1.22	1.24	NO	2356.6
16	5 234678-HxCDF	373.8208	36.41	1176168.063	1.181	48.906	48.906	1.24	1.24	NO	2756.1
17	6 123678-HxCDF	373.8208	35.47	1205755.938	1.089	49.504	49.504	1.23	1.24	NO	2834.2
18	4 123478-HxCDF	373.8208	35.31	1152334.344	1.141	49.237	49.237	1.22	1.24	NO	2756.3
19	38 Total-hexafurans	373.8208	35.15	1602.150	1.130	0.070		0.96	1.24	YES	5.6
20	38 Total-hexafurans	373.8208	33.80	11558.247	1.130	0.502		1.12	1.24	NO	26.8
21	38 Total-hexafurans	373.8208	33.59	3153.799	1.130	0.137		1.39	1.24	NO	8.4
22	9 1234789-HpCDF	407.7818	42.36	840429.469	1.295	49.441	49.441	1.05	1.05	NO	1865.7
23	39 Total-heptafurans	407.7818	40.43	7271.974	1.281	0.396		0.90	1.05	NO	16.3
24	39 Total-heptafurans	407.7818	40.15	1743.978	1.281	0.095		0.89	1.05	NO	4.6
25	8 1234678-HpCDF	407.7818	39.63	1028983.157	1.267	52.220	52.220	1.03	1.05	NO	2609.7
26	10 OCDF	441.7428	47.69	1260093.688	1.067	102.812	102....	0.88	0.89	NO	4158.2

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	11 2378-TCDD	319.8965	26.77	206620.883	1.150	10.036	10.036	0.77	0.77	NO	807.4
2	41 Total-tetradiioxins	319.8965	26.41	5822.990	1.150	0.283		0.86	0.77	NO	17.0
3	41 Total-tetradiioxins	319.8965	25.39	508.924	1.150	0.025		0.72	0.77	NO	3.5

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	12 12378-PeCDD	355.8546	31.88	852214.657	1.017	47.875	47.875	1.55	1.55	NO	4043.8
2	42 Total-pentadiioxins	355.8546	31.24	1473.124	1.017	0.083		1.59	1.55	NO	6.6
3	42 Total-pentadiioxins	355.8546	30.65	602.688	1.017	0.034		2.15	1.55	YES	4.0
4	42 Total-pentadiioxins	355.8546	30.51	719.290	1.017	0.040		3.79	1.55	YES	5.5
5	42 Total-pentadiioxins	355.8546	30.29	694.080	1.017	0.039		5.51	1.55	YES	5.0

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	15 123789-HxCDD	389.8157	37.11	859832.188	0.948	51.355	51.355	1.23	1.24	NO	3723.6
2	14 123678-HxCDD	389.8157	36.67	869225.031	0.964	50.143	50.143	1.27	1.24	NO	3875.6
3	13 123478-HxCDD	389.8157	36.55	894287.907	1.017	50.688	50.688	1.27	1.24	NO	4003.5

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	41.46	754225.625	1.051	49.010	49.010	1.05	1.05	NO	2630.6
2	44 Total-heptadioxins	423.7766	40.19	5797.221	1.051	0.377		1.01	1.05	NO	19.7

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	11 2378-TCDD	319.8965	26.77	206620.883	1.150	10.036	10.036	0.77	0.77	NO	807.4
2	41 Total-tetradoxins	319.8965	26.41	5822.990	1.150	0.283		0.86	0.77	NO	17.0
3	41 Total-tetradoxins	319.8965	25.39	508.924	1.150	0.025		0.72	0.77	NO	3.5
4	12 12378-PeCDD	355.8546	31.88	852214.657	1.017	47.875	47.875	1.55	1.55	NO	4043.8
5	42 Total-pentadioxins	355.8546	31.24	1473.124	1.017	0.083		1.59	1.55	NO	6.6
6	42 Total-pentadioxins	355.8546	30.65	602.688	1.017	0.034		2.15	1.55	YES	4.0
7	42 Total-pentadioxins	355.8546	30.51	719.290	1.017	0.040		3.79	1.55	YES	5.5
8	42 Total-pentadioxins	355.8546	30.29	694.080	1.017	0.039		5.51	1.55	YES	5.0
9	15 123789-HxCDD	389.8157	37.11	859832.188	0.948	51.355	51.355	1.23	1.24	NO	3723.6
10	14 123678-HxCDD	389.8157	36.67	869225.031	0.964	50.143	50.143	1.27	1.24	NO	3875.6
11	13 123478-HxCDD	389.8157	36.55	894287.907	1.017	50.688	50.688	1.27	1.24	NO	4003.5
12	16 1234678-HpCDD	423.7766	41.46	754225.625	1.051	49.010	49.010	1.05	1.05	NO	2630.6
13	44 Total-heptadioxins	423.7766	40.19	5797.221	1.051	0.377		1.01	1.05	NO	19.7
14	17 OCDD	457.7377	47.41	1192870.625	1.030	100.856	100....	0.88	0.89	NO	4868.9

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld

Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time

Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	35 Total-tetrafurans	303.9016	27.68	219.032	0.924	0.008		1.33	0.77	YES	3.6
2	1 2378-TCDF	303.9016	26.12	277266.804	0.924	10.005	10.005	0.76	0.77	NO	1583.4
3	35 Total-tetrafurans	303.9016	25.94	670.557	0.924	0.024		0.84	0.77	NO	4.8
4	35 Total-tetrafurans	303.9016	25.21	2576.132	0.924	0.093		0.57	0.77	YES	12.5
5	35 Total-tetrafurans	303.9016	25.03	2140.335	0.924	0.077		0.39	0.77	YES	8.9
6	35 Total-tetrafurans	303.9016	24.90	2904.885	0.924	0.105		0.72	0.77	NO	15.4
7	2 12378-PeCDF	339.8597	30.28	1270035.594	0.954	49.251	49.251	1.52	1.55	NO	3789.0
8	37 Total-pentafurans	339.8597	29.93	4264.785	0.960	0.162		2.71	1.55	YES	16.2
9	37 Total-pentafurans	339.8597	29.21	12781.674	0.960	0.485		1.87	1.55	YES	31.1
10	37 Total-pentafurans	339.8597	32.67	10455.436	0.960	0.397		1.39	1.55	NO	28.0
11	3 23478-PeCDF	339.8597	31.63	1279195.531	0.966	47.489	47.489	1.53	1.55	NO	3831.6
12	37 Total-pentafurans	339.8597	31.37	1545.889	0.960	0.059		3.04	1.55	YES	5.7
13	37 Total-pentafurans	339.8597	30.60	2634.136	0.960	0.100		1.74	1.55	NO	11.5
14	37 Total-pentafurans	339.8597	30.48	34526.952	0.960	1.310		1.42	1.55	NO	84.2
15	7 123789-HxCDF	373.8208	37.56	996151.313	1.110	49.366	49.366	1.22	1.24	NO	2356.6
16	5 234678-HxCDF	373.8208	36.41	1176168.063	1.181	48.906	48.906	1.24	1.24	NO	2756.1
17	6 123678-HxCDF	373.8208	35.47	1205755.938	1.089	49.504	49.504	1.23	1.24	NO	2834.2
18	4 123478-HxCDF	373.8208	35.31	1152334.344	1.141	49.237	49.237	1.22	1.24	NO	2756.3
19	38 Total-hexafurans	373.8208	35.15	1602.150	1.130	0.070		0.96	1.24	YES	5.6
20	38 Total-hexafurans	373.8208	33.80	11558.247	1.130	0.502		1.12	1.24	NO	26.8
21	38 Total-hexafurans	373.8208	33.59	3153.799	1.130	0.137		1.39	1.24	NO	8.4
22	9 1234789-HpCDF	407.7818	42.36	840429.469	1.295	49.441	49.441	1.05	1.05	NO	1865.7
23	39 Total-heptafurans	407.7818	40.43	7271.974	1.281	0.396		0.90	1.05	NO	16.3
24	39 Total-heptafurans	407.7818	40.15	1743.978	1.281	0.095		0.89	1.05	NO	4.6
25	8 1234678-HpCDF	407.7818	39.63	1028983.157	1.267	52.220	52.220	1.03	1.05	NO	2609.7
26	10 OCDF	441.7428	47.69	1260093.688	1.067	102.812	102....	0.88	0.89	NO	4158.2
27	11 2378-TCDD	319.8965	26.77	206620.883	1.150	10.036	10.036	0.77	0.77	NO	807.4
28	41 Total-tetradoxins	319.8965	26.41	5822.990	1.150	0.283		0.86	0.77	NO	17.0
29	41 Total-tetradoxins	319.8965	25.39	508.924	1.150	0.025		0.72	0.77	NO	3.5
30	12 12378-PeCDD	355.8546	31.88	852214.657	1.017	47.875	47.875	1.55	1.55	NO	4043.8
31	42 Total-pentadoxins	355.8546	31.24	1473.124	1.017	0.083		1.59	1.55	NO	6.6
32	42 Total-pentadoxins	355.8546	30.65	602.688	1.017	0.034		2.15	1.55	YES	4.0
33	42 Total-pentadoxins	355.8546	30.51	719.290	1.017	0.040		3.79	1.55	YES	5.5
34	42 Total-pentadoxins	355.8546	30.29	694.080	1.017	0.039		5.51	1.55	YES	5.0
35	15 123789-HxCDD	389.8157	37.11	859832.188	0.948	51.355	51.355	1.23	1.24	NO	3723.6
36	14 123678-HxCDD	389.8157	36.67	869225.031	0.964	50.143	50.143	1.27	1.24	NO	3875.6
37	13 123478-HxCDD	389.8157	36.55	894287.907	1.017	50.688	50.688	1.27	1.24	NO	4003.5
38	16 1234678-HpCDD	423.7766	41.46	754225.625	1.051	49.010	49.010	1.05	1.05	NO	2630.6
39	44 Total-heptadoxins	423.7766	40.19	5797.221	1.051	0.377		1.01	1.05	NO	19.7
40	17 OCDD	457.7377	47.41	1192870.625	1.030	100.856	100....	0.88	0.89	NO	4868.9

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	25.58	0.000							1.2
2	48 FUNCTION1 PFK	330.9792	25.29	0.000							3.3
3	48 FUNCTION1 PFK	330.9792	25.08	0.000							2.9
4	48 FUNCTION1 PFK	330.9792	24.54	0.000							1.1
5	48 FUNCTION1 PFK	330.9792	24.27	0.000							0.6
6	48 FUNCTION1 PFK	330.9792	24.20	0.000							0.8
7	48 FUNCTION1 PFK	330.9792	23.54	0.000							1.5
8	48 FUNCTION1 PFK	330.9792	23.15	0.000							1.0
9	48 FUNCTION1 PFK	330.9792	22.88	0.000							0.9
10	48 FUNCTION1 PFK	330.9792	22.81	0.000							1.3
11	48 FUNCTION1 PFK	330.9792	22.43	0.000							0.8
12	48 FUNCTION1 PFK	330.9792	22.13	0.000							0.9
13	48 FUNCTION1 PFK	330.9792	21.73	0.000							0.8
14	48 FUNCTION1 PFK	330.9792	21.64	0.000							0.4
15	48 FUNCTION1 PFK	330.9792	21.43	0.000							2.3
16	48 FUNCTION1 PFK	330.9792	21.19	0.000							6.2
17	48 FUNCTION1 PFK	330.9792	28.30	0.000							2.0
18	48 FUNCTION1 PFK	330.9792	27.68	0.000							2.2
19	48 FUNCTION1 PFK	330.9792	27.60	0.000							1.9
20	48 FUNCTION1 PFK	330.9792	27.06	0.000							2.0
21	48 FUNCTION1 PFK	330.9792	26.93	0.000							2.8
22	48 FUNCTION1 PFK	330.9792	26.63	0.000							4.1
23	48 FUNCTION1 PFK	330.9792	26.45	0.000							2.2
24	48 FUNCTION1 PFK	330.9792	26.41	0.000							1.4
25	48 FUNCTION1 PFK	330.9792	26.24	0.000							1.2
26	48 FUNCTION1 PFK	330.9792	25.99	0.000							2.3

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	29.19	0.000		0.000					1.6
2	49 FUNCTION2 PFK	366.9792	29.15	0.000		0.000					1.2
3	49 FUNCTION2 PFK	366.9792	28.95	0.000		0.000					1.4
4	49 FUNCTION2 PFK	366.9792	28.80	0.000		0.000					0.5
5	49 FUNCTION2 PFK	366.9792	28.65	0.000		0.000					0.7
6	49 FUNCTION2 PFK	366.9792	32.92	0.000		0.000					2.1
7	49 FUNCTION2 PFK	366.9792	32.77	0.000		0.000					2.7
8	49 FUNCTION2 PFK	366.9792	32.68	0.000		0.000					0.5
9	49 FUNCTION2 PFK	366.9792	32.53	0.000		0.000					1.2
10	49 FUNCTION2 PFK	366.9792	31.92	0.000		0.000					1.0
11	49 FUNCTION2 PFK	366.9792	31.31	0.000		0.000					1.1
12	49 FUNCTION2 PFK	366.9792	31.22	0.000		0.000					2.7
13	49 FUNCTION2 PFK	366.9792	30.97	0.000		0.000					0.5
14	49 FUNCTION2 PFK	366.9792	30.93	0.000		0.000					1.0
15	49 FUNCTION2 PFK	366.9792	30.39	0.000		0.000					0.5
16	49 FUNCTION2 PFK	366.9792	30.11	0.000		0.000					0.8
17	49 FUNCTION2 PFK	366.9792	29.58	0.000		0.000					1.1
18	49 FUNCTION2 PFK	366.9792	29.37	0.000		0.000					1.1

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	34.81	0.000		0.000					8.0
2	50 FUNCTION3 PFK	380.9760	34.45	0.000		0.000					9.7
3	50 FUNCTION3 PFK	380.9760	38.22	0.000		0.000					6.9
4	50 FUNCTION3 PFK	380.9760	37.95	0.000		0.000					2.9
5	50 FUNCTION3 PFK	380.9760	37.23	0.000		0.000					3.1
6	50 FUNCTION3 PFK	380.9760	36.06	0.000		0.000					4.3
7	50 FUNCTION3 PFK	380.9760	34.95	0.000		0.000					3.8
8	50 FUNCTION3 PFK	380.9760	34.90	0.000		0.000					5.7

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	51 FUNCTION4 PFK	430.9728	43.88	0.000							5.3
2	51 FUNCTION4 PFK	430.9728	43.78	0.000							1.0
3	51 FUNCTION4 PFK	430.9728	43.63	0.000							2.0
4	51 FUNCTION4 PFK	430.9728	40.02	0.000							6.4
5	51 FUNCTION4 PFK	430.9728	39.62	0.000							7.9
6	51 FUNCTION4 PFK	430.9728	38.60	0.000							8.9

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	45.27	0.000							1.2
2	52 FUNCTION5 PFK	480.9696	45.24	0.000							1.5
3	52 FUNCTION5 PFK	480.9696	47.37	0.000							2.3
4	52 FUNCTION5 PFK	480.9696	47.27	0.000							1.1
5	52 FUNCTION5 PFK	480.9696	47.21	0.000							0.6
6	52 FUNCTION5 PFK	480.9696	47.17	0.000							0.8
7	52 FUNCTION5 PFK	480.9696	47.12	0.000							1.2
8	52 FUNCTION5 PFK	480.9696	46.76	0.000							2.1
9	52 FUNCTION5 PFK	480.9696	46.68	0.000							0.6
10	52 FUNCTION5 PFK	480.9696	46.56	0.000							1.6
11	52 FUNCTION5 PFK	480.9696	46.52	0.000							1.1
12	52 FUNCTION5 PFK	480.9696	46.47	0.000							1.5
13	52 FUNCTION5 PFK	480.9696	46.04	0.000							1.5
14	52 FUNCTION5 PFK	480.9696	45.63	0.000							1.0
15	52 FUNCTION5 PFK	480.9696	45.48	0.000							1.4
16	52 FUNCTION5 PFK	480.9696	45.43	0.000							0.9
17	52 FUNCTION5 PFK	480.9696	45.36	0.000							2.1
18	52 FUNCTION5 PFK	480.9696	45.32	0.000							2.4
19	52 FUNCTION5 PFK	480.9696	49.24	0.000							1.2
20	52 FUNCTION5 PFK	480.9696	48.96	0.000							1.2
21	52 FUNCTION5 PFK	480.9696	48.33	0.000							0.8
22	52 FUNCTION5 PFK	480.9696	48.30	0.000							0.8
23	52 FUNCTION5 PFK	480.9696	48.15	0.000							0.5
24	52 FUNCTION5 PFK	480.9696	48.11	0.000							0.9
25	52 FUNCTION5 PFK	480.9696	47.84	0.000							2.0
26	52 FUNCTION5 PFK	480.9696	47.72	0.000							1.7

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
 Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
 Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	25.96	0.000		0.000					3.9
2	53 FUNCTION1 HXCD...	375.8364	21.18	0.000		0.000					2.5

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	25.75	0.000		0.000					4.2
2	54 FUNCTION1 HPCD...	409.7974	25.15	0.000		0.000					2.9
3	54 FUNCTION1 HPCD...	409.7974	24.73	0.000		0.000					2.1
4	54 FUNCTION1 HPCD...	409.7974	23.22	0.000		0.000					1.6
5	54 FUNCTION1 HPCD...	409.7974	26.26	0.000		0.000					3.4

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	33.00	0.000		0.000					1.8
2	55 FUNCTION2 HPCD...	409.7974	32.08	0.000		0.000					2.5
3	55 FUNCTION2 HPCD...	409.7974	29.65	0.000		0.000					2.8

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	57 FUNCTION4 NCDPE	479.7165	40.13	0.000		0.000					3.8
2	57 FUNCTION4 NCDPE	479.7165	39.70	0.000		0.000					1.9
3	57 FUNCTION4 NCDPE	479.7165	38.94	0.000		0.000					2.0

ETHERS6

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

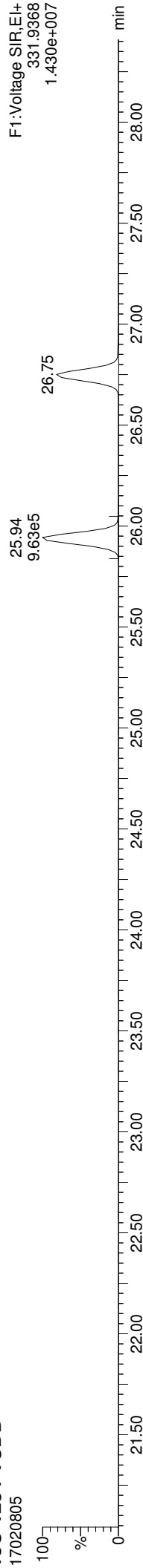
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170208D.qld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

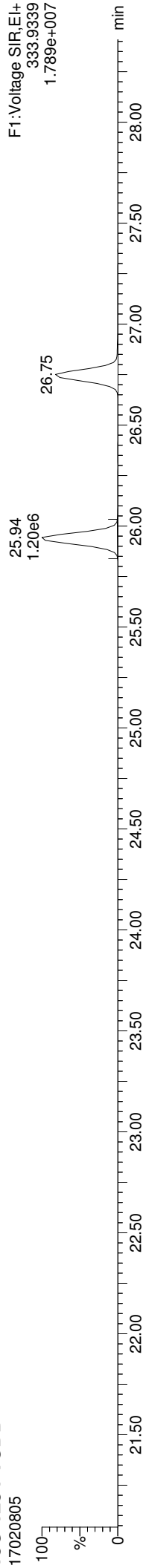
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Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

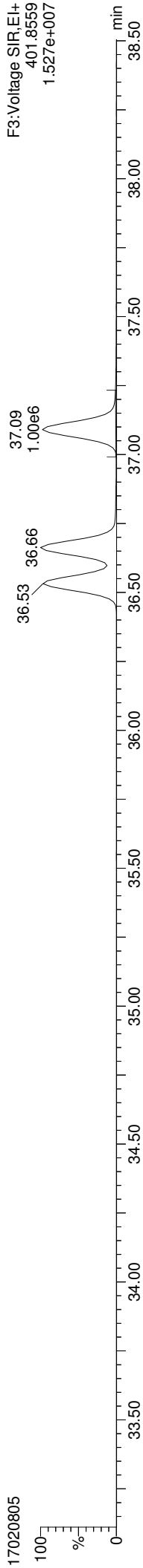
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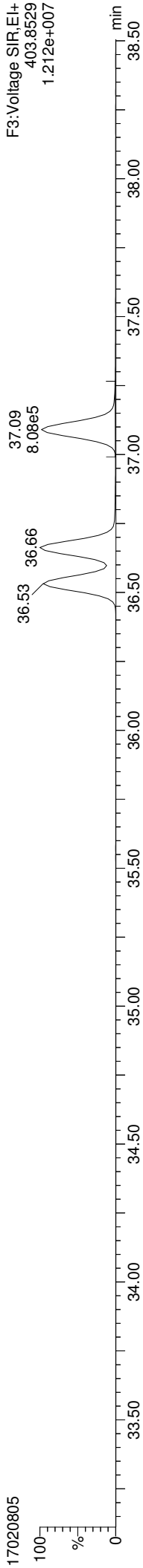
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13C-123789-HxCDD



13C-123789-HxCDD

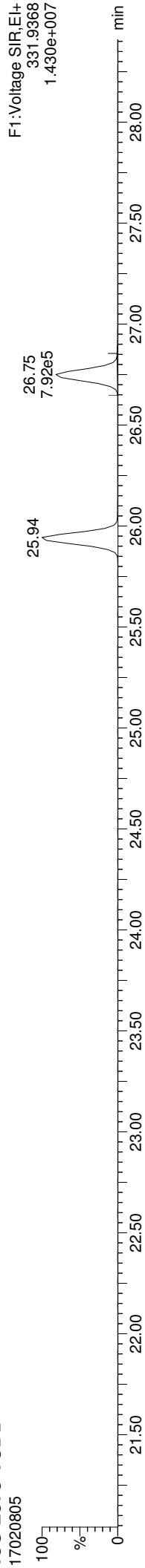


Quantify Sample Report

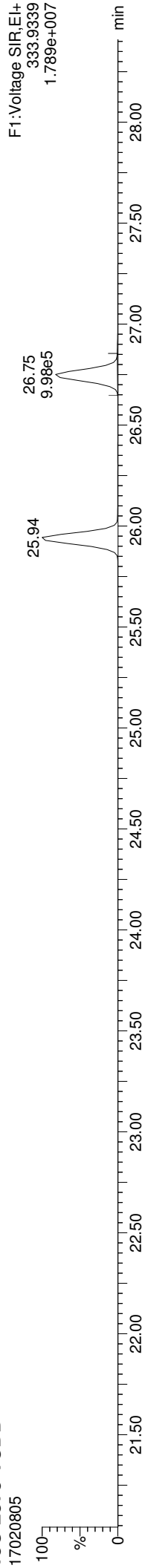
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

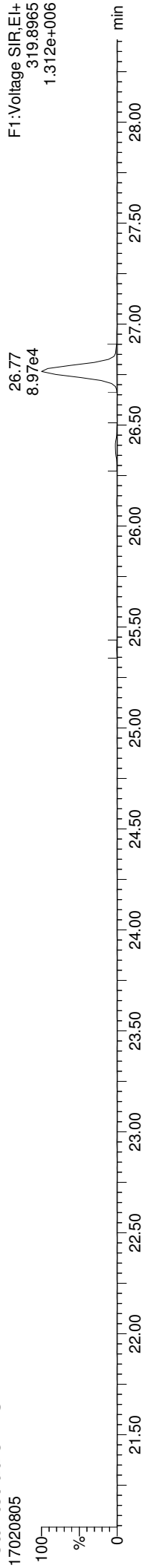
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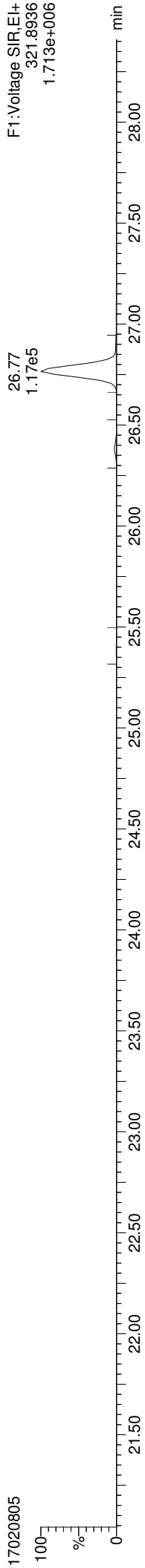
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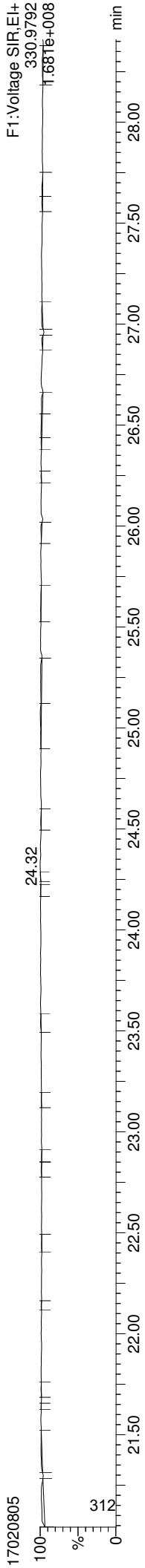
Total-tetradoxins



Total-tetradoxins



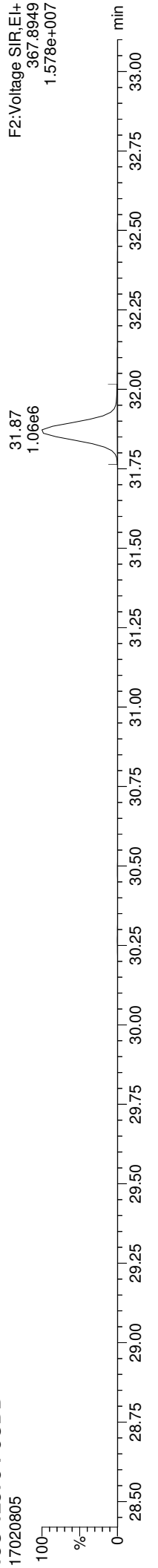
FUNCTION1 PFK



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

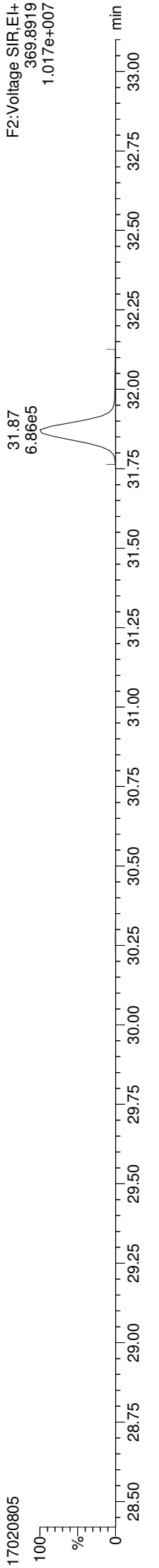
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13C-12378-PeCDD



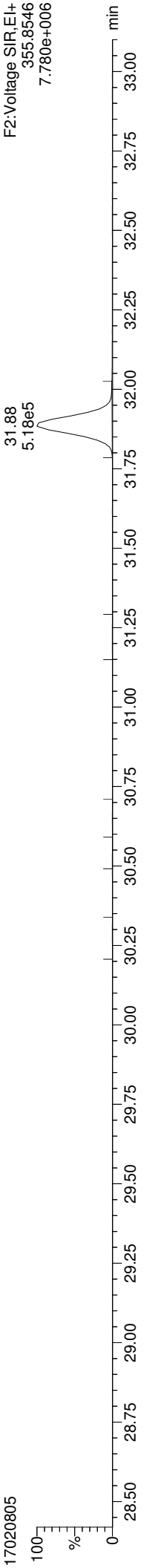
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367.8949
1.578e+007

13C-12378-PeCDD



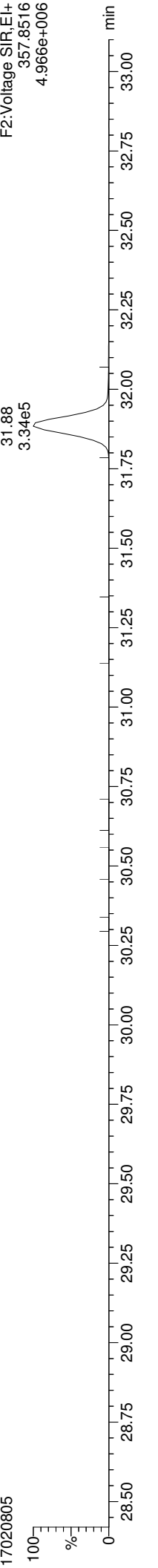
F2:Voltage SIR,EI+
369.8919
1.017e+007

Total-pentadioxins



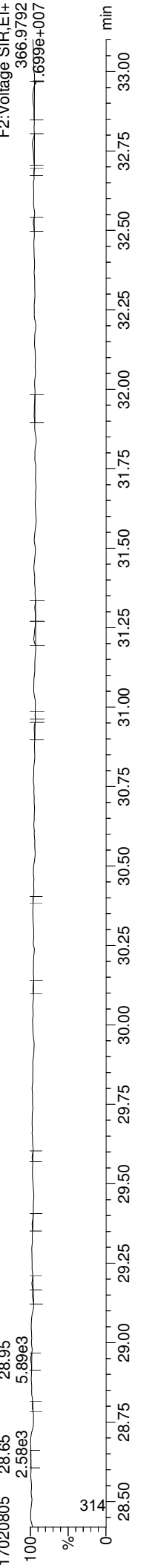
F2:Voltage SIR,EI+
355.8546
7.780e+006

Total-pentadioxins



F2:Voltage SIR,EI+
357.8516
4.966e+006

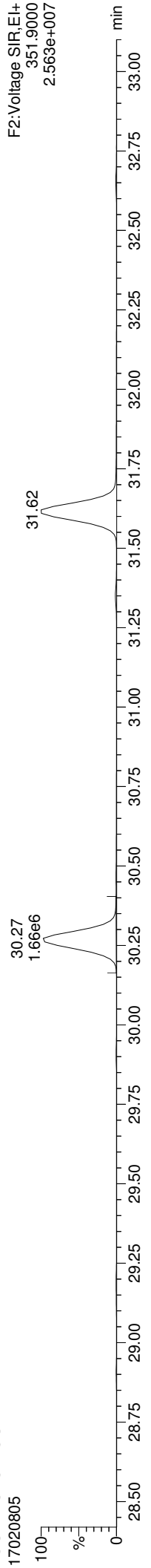
FUNCTION2 PFK



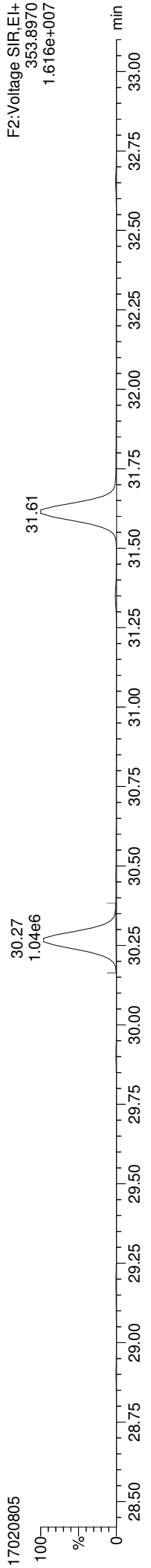
F2:Voltage SIR,EI+
366.9792
1.699e+007

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

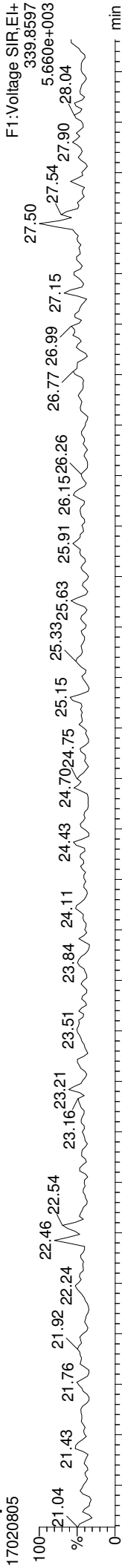
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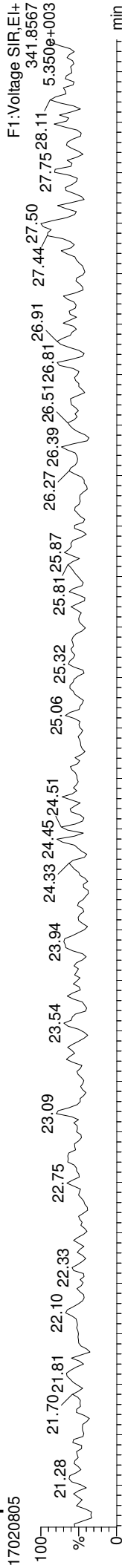
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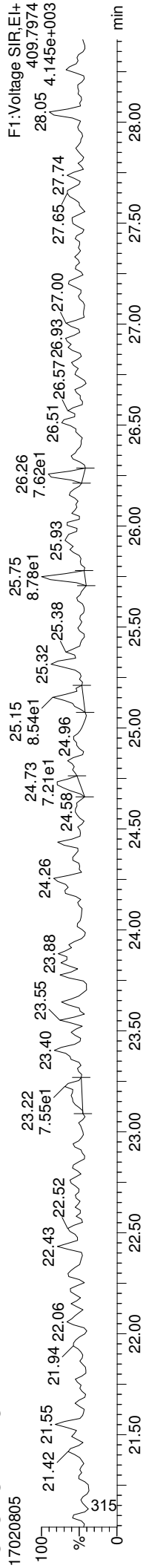
Total-penta1



Total-penta1

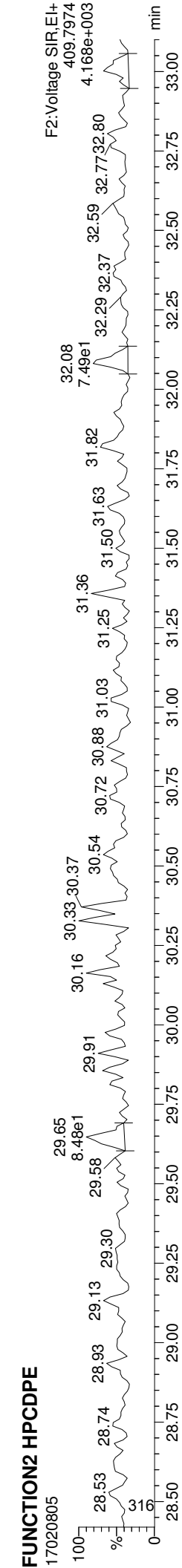
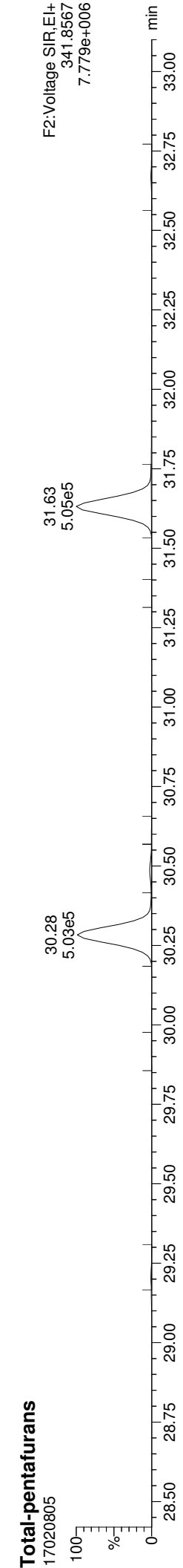
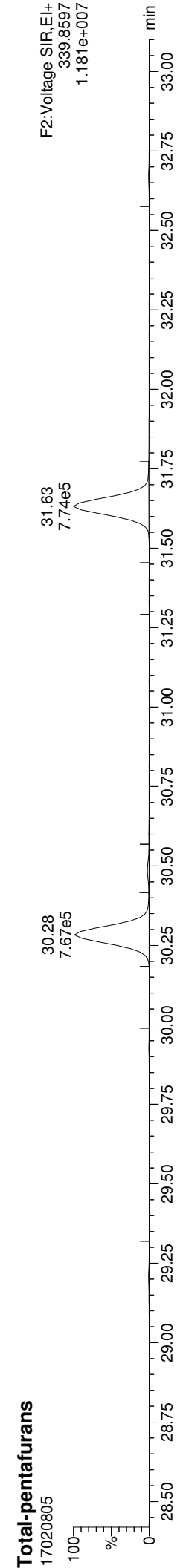
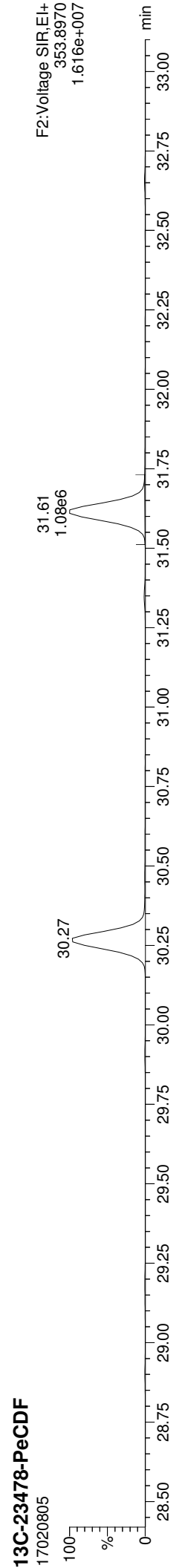
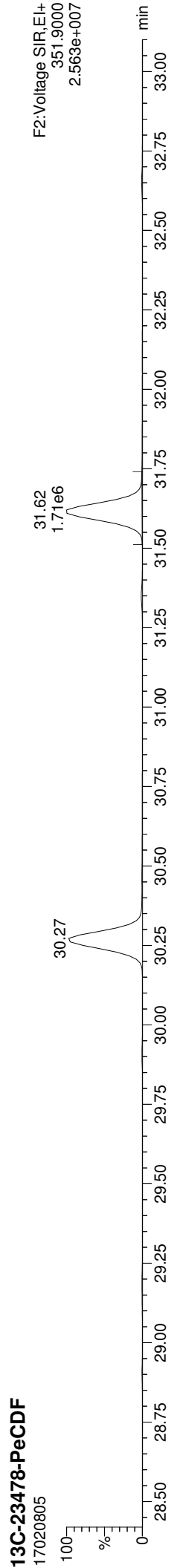


FUNCTION1 HPCDPE



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

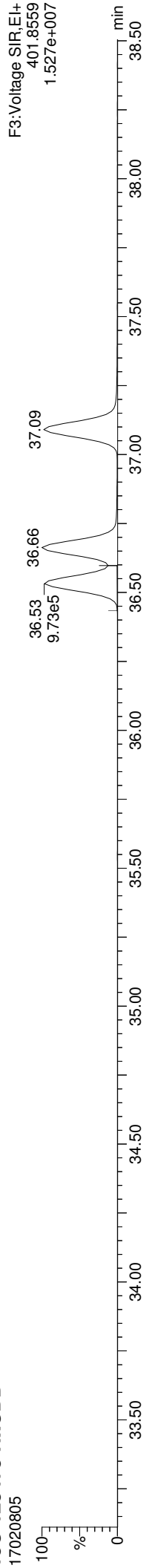
ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK



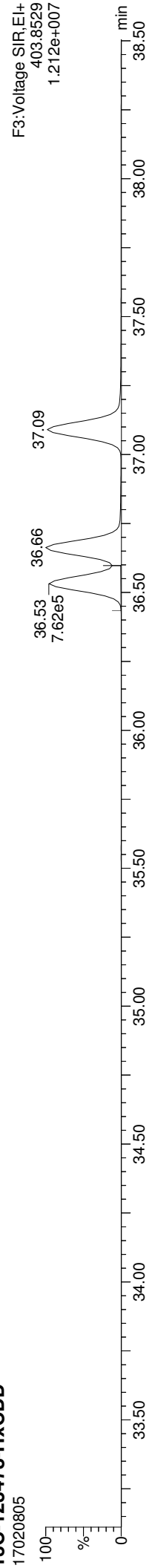
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

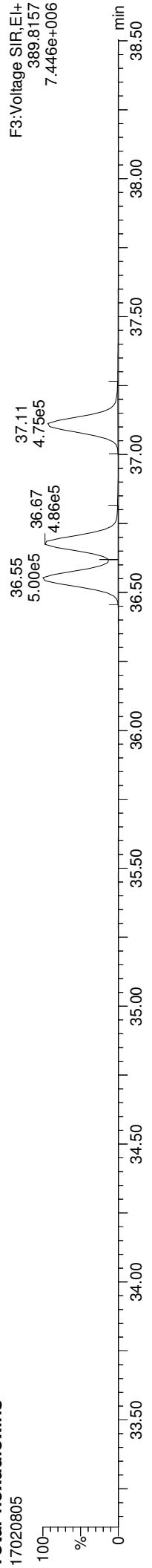
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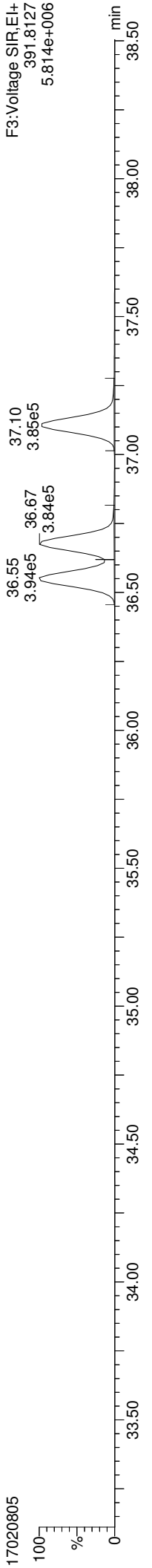
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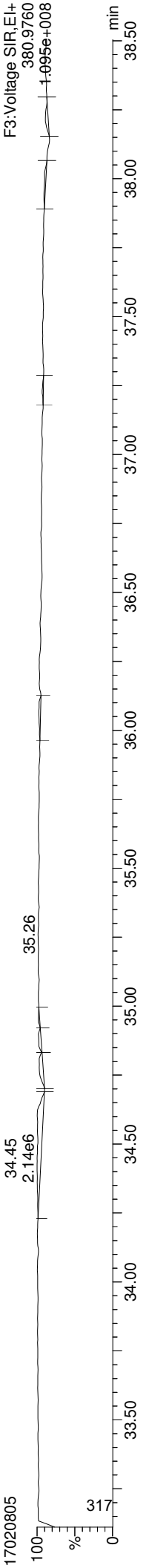
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

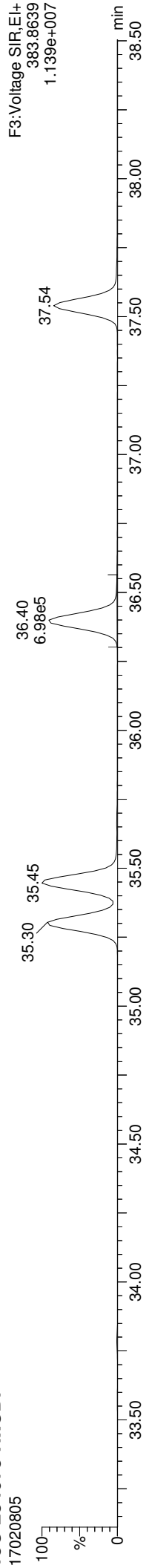


Quantify Sample Report

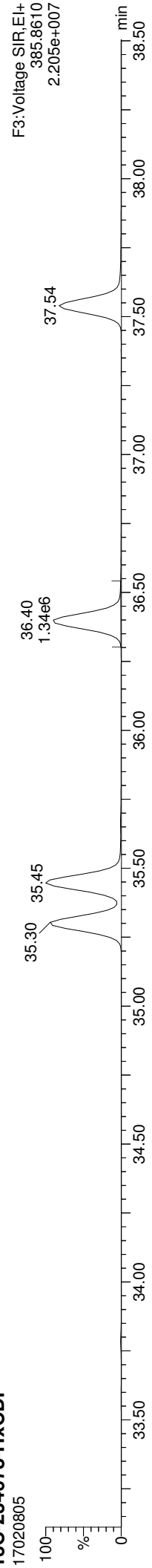
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

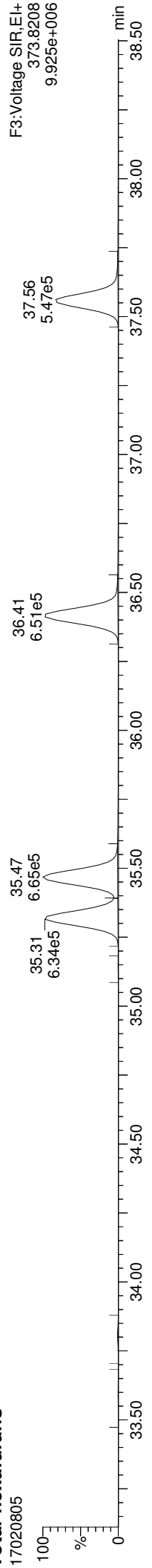
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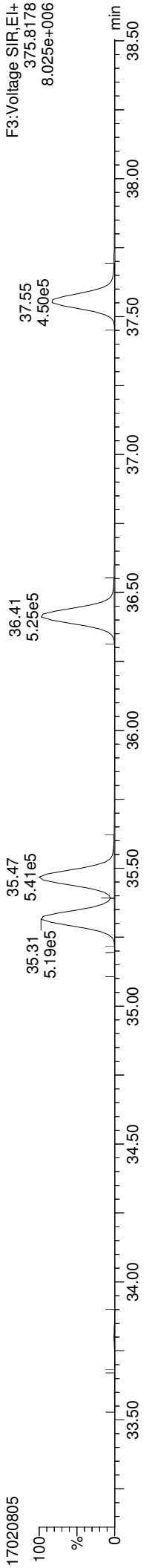
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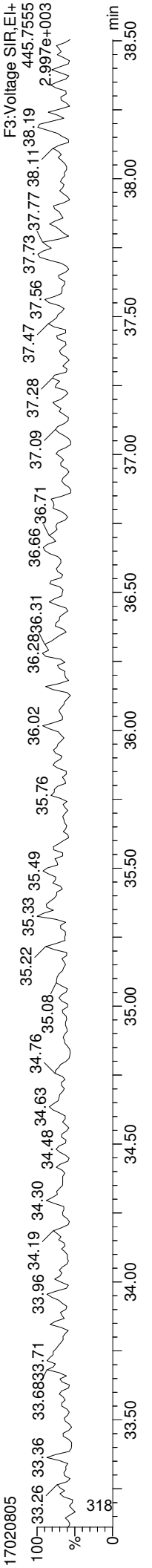
Total-hexafurans



Total-hexafurans



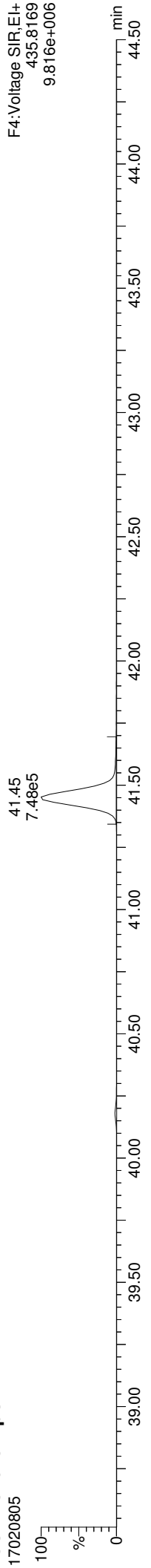
FUNCTION3 OCDPE



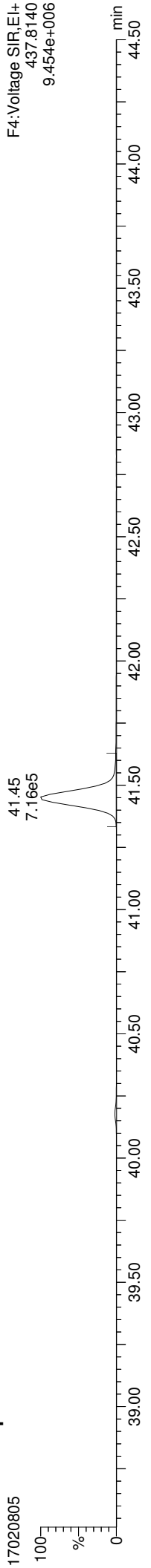
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

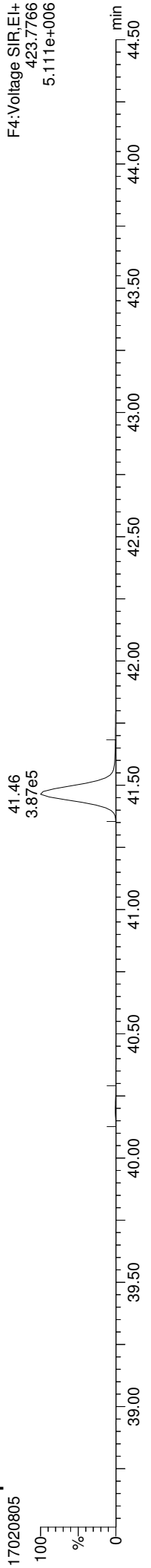
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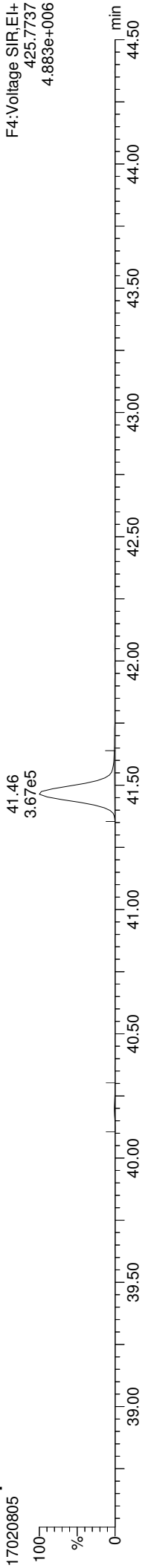
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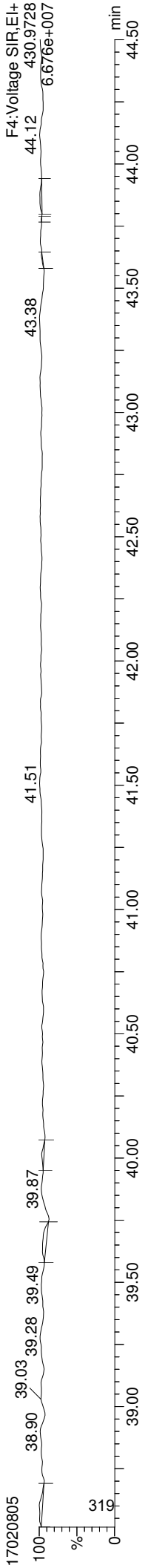
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

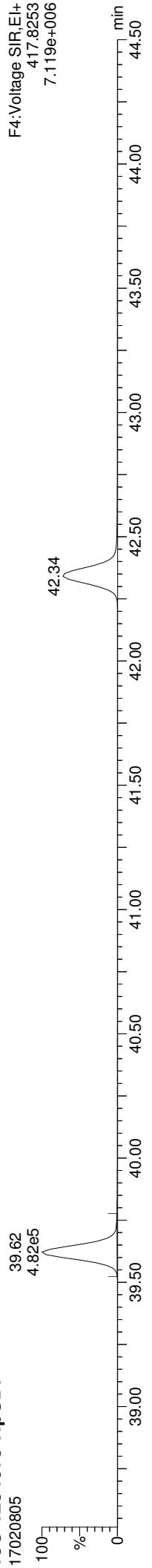


Quantify Sample Report
Dataset: C:\MassLynx\Dioxin.pro\170208D.d\id
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

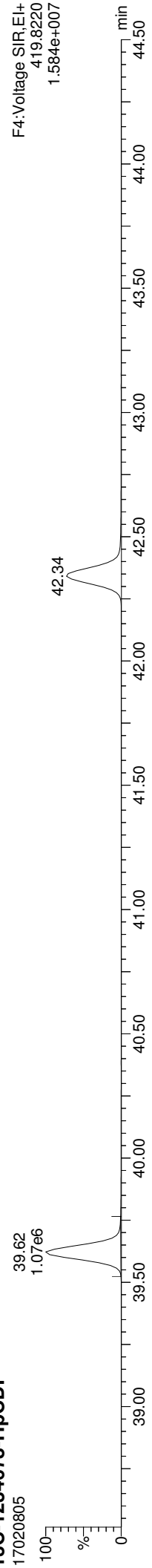
MassLynx MassLynx V4.1 SCN909

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

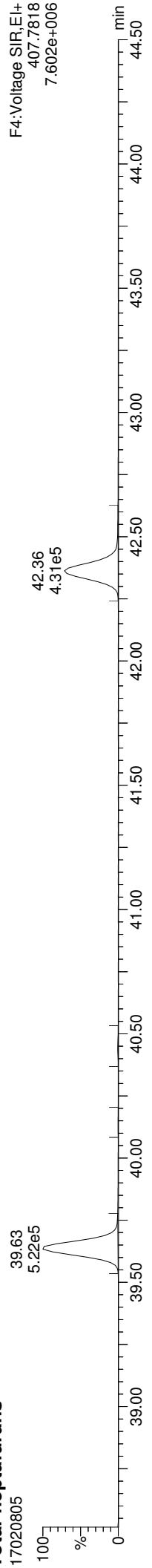
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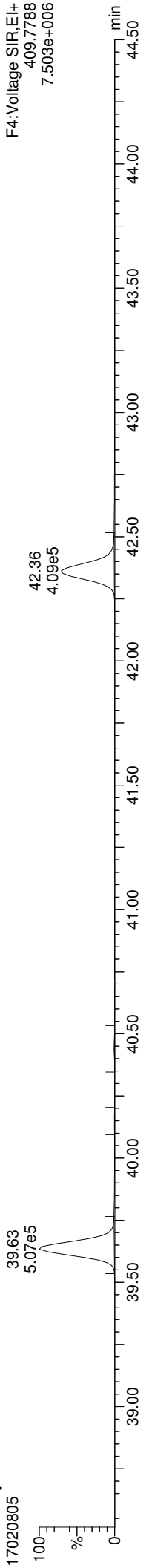
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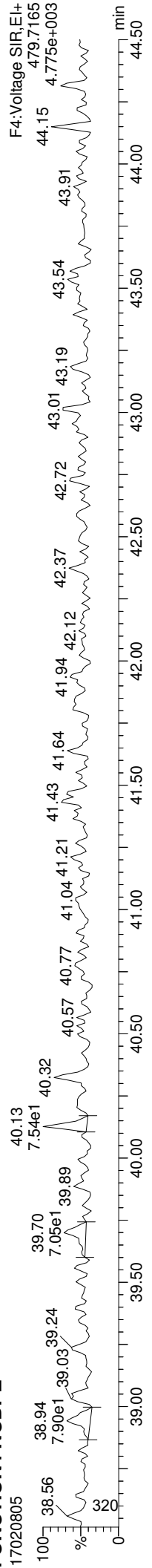
Total-heptafulurans



Total-heptafulurans

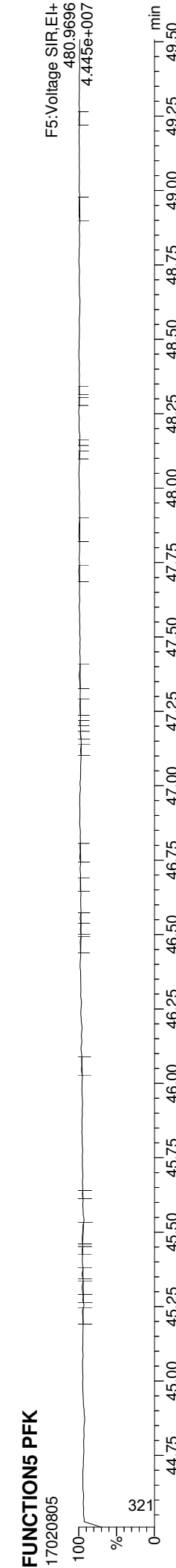
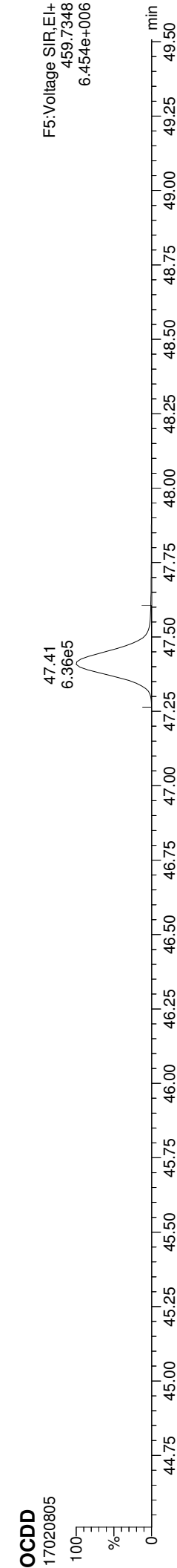
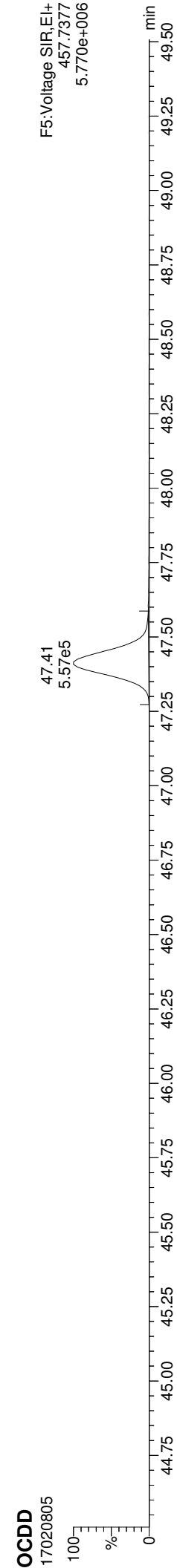
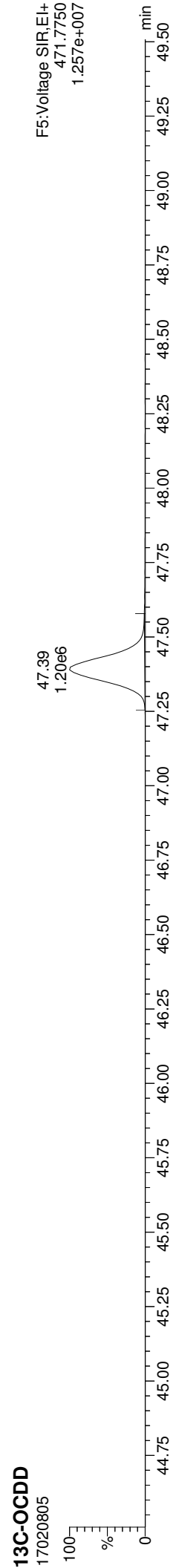
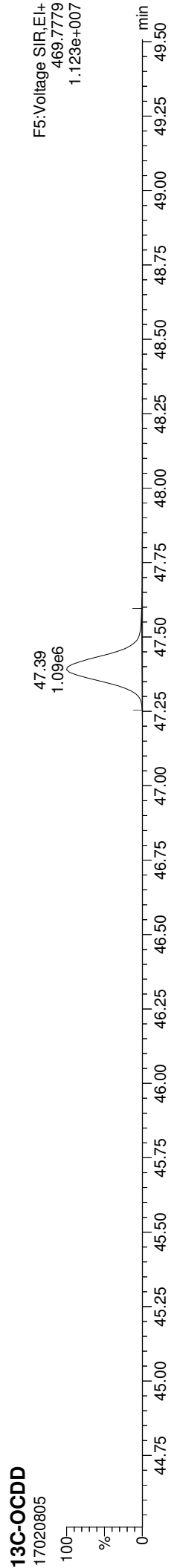


FUNCTION4 NCDPE



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\17020805.D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

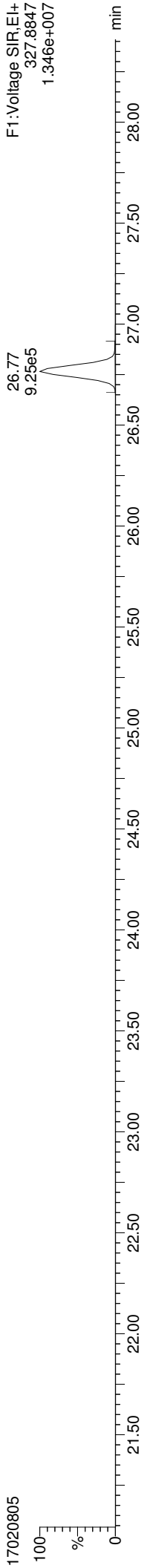


Quantify Sample Report
Dataset: C:\MassLynx\Dioxin.pro\170208D.dld
Last Altered: Wednesday, February 22, 2017 13:49:08 Pacific Standard Time
Printed: Wednesday, February 22, 2017 13:52:33 Pacific Standard Time

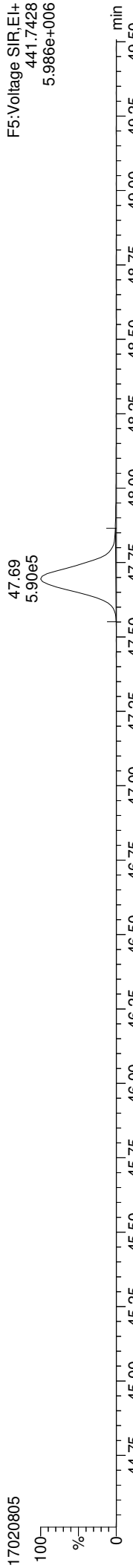
MassLynx MassLynx V4.1 SCN909

ID: BFA0657-BS1, Name: 17020805, Date: 08-Feb-2017, Time: 14:03:12, Conditions: AUTOSPEC01, User: PK

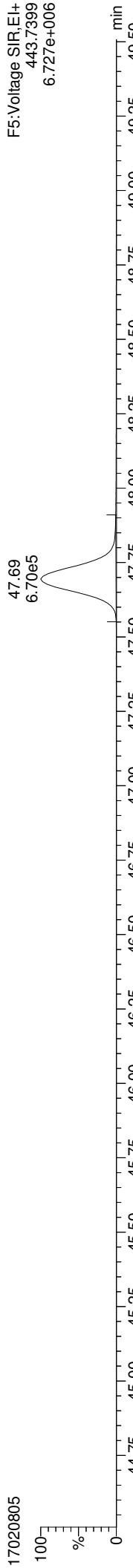
37CL-2378-TCDD



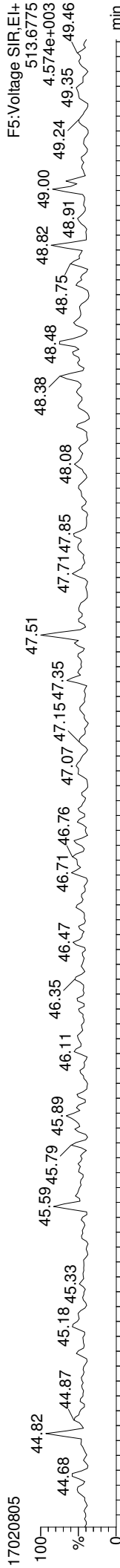
OCDF



OCDF



FUNCTION5 DCDPE





LCS / LCS DUPLICATE RECOVERY
EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 17A0053

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue

Analyzed: 02/24/17 16:46

Batch: BFB0538

Laboratory ID: BFB0538-BS1

Preparation: EPA 1613

Initial/Final: 10 g / 20 uL

COMPOUND	SPIKE ADDED (ng/kg)	LCS CONCENTRATION (ng/kg)	LCS % REC.	QC LIMITS REC.	Q
2,3,7,8-TCDF	20.0	20.4	102	75 - 158	
2,3,7,8-TCDD	20.0	19.5	97.7	67 - 158	
1,2,3,7,8-PeCDF	100	101	101	80 - 134	
2,3,4,7,8-PeCDF	100	96.1	96.1	68 - 160	
1,2,3,7,8-PeCDD	100	96.9	96.9	70 - 142	
1,2,3,4,7,8-HxCDF	100	98.2	98.2	72 - 134	
1,2,3,6,7,8-HxCDF	100	102	102	84 - 130	
2,3,4,6,7,8-HxCDF	100	99.6	99.6	70 - 156	
1,2,3,7,8,9-HxCDF	100	98.8	98.8	78 - 130	
1,2,3,4,7,8-HxCDD	100	101	101	70 - 164	
1,2,3,6,7,8-HxCDD	100	106	106	76 - 134	
1,2,3,7,8,9-HxCDD	100	105	105	64 - 162	
1,2,3,4,6,7,8-HpCDF	100	104	104	82 - 122	
1,2,3,4,7,8,9-HpCDF	100	102	102	78 - 138	
1,2,3,4,6,7,8-HpCDD	100	101	101	70 - 140	
OCDF	200	214	107	63 - 170	
OCDD	200	210	105	78 - 144	
13C12-2,3,7,8-TCDF	200	176	88.0	24 - 169	

Labels

13C12-2,3,7,8-TCDD	200	186	93.0	25 - 164	
13C12-1,2,3,7,8-PeCDF	200	183	91.3	24 - 185	
13C12-2,3,4,7,8-PeCDF	200	191	95.3	21 - 178	
13C12-1,2,3,7,8-PeCDD	200	198	99.2	25 - 181	
13C12-1,2,3,4,7,8-HxCDF	200	154	77.0	26 - 152	
13C12-1,2,3,6,7,8-HxCDF	200	156	78.0	26 - 123	
13C12-2,3,4,6,7,8-HxCDF	200	162	81.0	28 - 136	
13C12-1,2,3,7,8,9-HxCDF	200	176	88.2	29 - 147	
13C12-1,2,3,4,7,8-HxCDD	200	170	84.8	32 - 141	
13C12-1,2,3,6,7,8-HxCDD	200	166	83.0	28 - 130	
13C12-1,2,3,4,6,7,8-HpCDF	200	152	76.0	28 - 143	
13C12-1,2,3,4,7,8,9-HpCDF	200	188	93.9	26 - 138	
13C12-1,2,3,4,6,7,8-HpCDD	200	181	90.3	23 - 140	
13C12-OCDD	400	345	86.2	17 - 157	
37C14-2,3,7,8-TCDD	80.0	78.3	97.8	35 - 197	

* Values outside of QC limits

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF	25.555	1.001	1.05e5	1.40e5	0.924	0.751	0.770	1565	2073	1.51e6	2.10e6	967.0	NO	10.211
12378-PeCDF	29.688	1.001	6.61e5	4.33e5	0.954	1.525	1.550	3043	3356	9.67e6	6.36e6	3176.9	NO	50.342
23478-PeCDF	31.036	1.001	6.56e5	4.31e5	0.966	1.520	1.550	3043	3356	9.97e6	6.61e6	3276.0	NO	48.026
123478-HxCDF	34.708	1.001	5.25e5	4.35e5	1.141	1.208	1.240	4678	2809	7.76e6	6.44e6	1659.3	NO	49.101
234678-HxCDF	35.804	1.001	5.43e5	4.56e5	1.181	1.191	1.240	4678	2809	7.85e6	6.49e6	1678.7	NO	49.800
123678-HxCDF	34.850	1.001	5.64e5	4.78e5	1.089	1.179	1.240	4678	2809	8.13e6	6.94e6	1738.6	NO	50.762
123789-HxCDF	36.944	1.000	4.65e5	3.72e5	1.110	1.251	1.240	4678	2809	6.48e6	5.26e6	1385.1	NO	49.417
1234678-HpCDF	39.015	1.001	4.55e5	4.50e5	1.267	1.012	1.050	3836	4127	6.67e6	6.63e6	1739.1	NO	52.061
1234789-HpCDF	41.635	1.000	3.71e5	3.62e5	1.295	1.024	1.050	3836	4127	4.78e6	4.65e6	1245.7	NO	51.140
OCDF	46.741	1.006	4.69e5	5.37e5	1.067	0.873	0.890	1796	2410	4.82e6	5.53e6	2686.0	NO	107.238
2378-TCDD	26.198	1.001	7.71e4	1.01e5	1.150	0.763	0.770	2025	928	1.15e6	1.47e6	570.2	NO	9.766
12378-PeCDD	31.288	1.001	4.38e5	2.84e5	1.017	1.541	1.550	2096	1683	6.48e6	4.25e6	3093.8	NO	48.474
123478-HxCDD	35.935	1.000	4.17e5	3.29e5	1.017	1.270	1.240	2574	1919	6.20e6	4.90e6	2409.6	NO	50.259
123678-HxCDD	36.067	1.001	4.27e5	3.38e5	0.964	1.264	1.240	2574	1919	6.02e6	4.83e6	2337.7	NO	52.754
123789-HxCDD	36.494	1.013	4.11e5	3.28e5	0.948	1.250	1.240	2574	1919	5.70e6	4.55e6	2215.4	NO	52.595
1234678-HpCDD	40.780	1.000	3.33e5	3.17e5	1.051	1.051	1.050	2228	2375	4.42e6	4.14e6	1982.4	NO	50.428
OCDD	46.481	1.001	4.44e5	5.05e5	1.030	0.879	0.890	1874	1680	4.72e6	5.37e6	2519.2	NO	104.783
13C-2378-TCDF	25.540	1.007	1.15e6	1.46e6	1.515	0.787	0.770	11214	5128	1.69e7	2.15e7	1503.1	NO	87.954
13C-12378-PeCDF	29.666	1.169	1.40e6	8.78e5	1.276	1.594	1.550	3678	4186	2.03e7	1.31e7	5529.0	NO	91.300
13C-23478-PeCDF	31.014	1.222	1.44e6	9.05e5	1.257	1.589	1.550	3678	4186	2.16e7	1.36e7	5867.2	NO	95.309
13C-123478-HxCDF	34.686	0.951	5.88e5	1.13e6	1.431	0.523	0.510	4765	4113	8.88e6	1.69e7	1863.5	NO	76.992
13C-123678-HxCDF	34.828	0.955	6.37e5	1.25e6	1.552	0.511	0.510	4765	4113	9.26e6	1.79e7	1943.2	NO	78.047
13C-234678-HxCDF	35.782	0.981	5.80e5	1.12e6	1.349	0.518	0.510	4765	4113	8.60e6	1.65e7	1804.1	NO	80.952
13C-123789-HxCDF	36.933	1.013	5.22e5	1.00e6	1.111	0.521	0.510	4765	4113	7.41e6	1.41e7	1555.3	NO	88.222
13C-1234678-HpCDF	38.993	1.069	4.27e5	9.45e5	1.160	0.452	0.440	2457	3028	6.32e6	1.41e7	2571.0	NO	75.999
13C-1234789-HpCDF	41.613	1.141	3.48e5	7.59e5	0.758	0.458	0.440	2457	3028	4.60e6	9.96e6	1874.0	NO	93.920
13C-1234-TCDD	25.376	0.000	8.60e5	1.10e6	1.000	0.785	0.770	3643	2155	1.25e7	1.59e7	3422.5	NO	100.000
13C-2378-TCDD	26.168	1.031	6.97e5	8.88e5	0.872	0.785	0.770	3643	2155	1.00e7	1.26e7	2745.0	NO	92.996
13C-12378-PeCDD	31.266	1.232	9.02e5	5.62e5	0.754	1.605	1.550	2461	1816	1.35e7	8.43e6	5489.4	NO	99.243
13C-123478-HxCDD	35.924	0.985	8.24e5	6.35e5	1.106	1.297	1.240	2522	2767	1.23e7	9.38e6	4864.5	NO	84.797
13C-123678-HxCDD	36.045	0.988	8.42e5	6.62e5	1.165	1.272	1.240	2522	2767	1.23e7	9.86e6	4870.3	NO	82.987
13C-1234678-HpCDD	40.758	1.117	6.23e5	6.02e5	0.872	1.034	1.050	3211	2585	8.41e6	7.96e6	2620.1	NO	90.265
13C-OCDD	46.454	1.274	8.20e5	9.38e5	0.655	0.874	0.890	1971	2335	8.74e6	9.90e6	4432.6	NO	172.418
13C-123789-HxCDD	36.472	0.000	8.67e5	6.89e5	1.000	1.258	1.240	2522	2767	1.24e7	9.86e6	4936.1	NO	100.000
Total-tetrafurans			1.08e5		0.924			1565		1.55e6				10.469

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170224D.d
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
Total-penta1			0.00e0					548		0.00e0				
Total-pentafurans			1.35e6		0.960			3043		2.01e7				100.759
Total-hexa1			2.10e6		1.130			4678		3.03e7				199.498
Total-hepta1			8.30e5		1.281			3836		1.15e7				103.727
Total-Furans			4.86e6		1.100			1565		6.83e7				521.691
Total-tetra1			7.96e4		1.150			2025		1.18e6				10.074
Total-penta1			4.38e5		1.017			2096		6.49e6				48.500
Total-hexa1			1.26e6		0.977			2574		1.79e7				155.608
Total-hepta1			3.36e5		1.051			2228		4.47e6				51.037
Total-Dioxins			2.55e6		1.025			2025		3.48e7				370.002
Total-TEQ			7.41e6					2025		1.03e8				891.693
37CL-2378-TCDD	26.198	1.032	8.21e5		1.073			1558		1.19e7		7639.3		39.136
FUNCTION1 PFK			6.90e5					822787		1.42e7				
FUNCTION2 PFK			2.32e5					268034		6.81e6				0.000
FUNCTION3 PFK			7.68e5					649957		6.61e6				0.000
FUNCTION4 PFK			0.00e0					506337		0.00e0				
FUNCTION5 PFK			2.49e6					335556		3.72e7				
FUNCTION1 HXCD...			3.19e2					1283		8.66e3				0.000
FUNCTION1 HPCD...			1.80e3					1398		4.51e4				0.000
FUNCTION2 HPCD...			1.30e2					971		4.90e3				0.000
FUNCTION3 OCDPE			8.11e1					473		2.95e3				0.000
FUNCTION4 NCDPE			0.00e0					838		0.00e0				
FUNCTION5 DCDPE			0.00e0					398		0.00e0				

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

TF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	25.56	245841.023	0.924	10.211	10.211	0.75	0.77	NO	967.0
2	35 Total-tetrafurans	303.9016	24.66	2079.876	0.924	0.086		0.56	0.77	YES	5.8
3	35 Total-tetrafurans	303.9016	24.48	1620.711	0.924	0.067		0.75	0.77	NO	7.1
4	35 Total-tetrafurans	303.9016	24.33	2508.653	0.924	0.104		0.71	0.77	NO	7.8

PP

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	37 Total-pentafurans	339.8597	28.61	9275.122	0.960	0.418		1.38	1.55	NO	24.9
2	37 Total-pentafurans	339.8597	32.07	9171.175	0.960	0.414		1.30	1.55	YES	27.4
3	3 23478-PeCDF	339.8597	31.04	1086844.407	0.966	48.026	48.026	1.52	1.55	NO	3276.0
4	37 Total-pentafurans	339.8597	29.99	2981.158	0.960	0.134		4.02	1.55	YES	12.5
5	37 Total-pentafurans	339.8597	29.90	31587.403	0.960	1.424		1.46	1.55	NO	80.2
6	2 12378-PeCDF	339.8597	29.69	1093810.407	0.954	50.342	50.342	1.53	1.55	NO	3176.9

HF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	7 123789-HxCDF	373.8208	36.94	836736.969	1.110	49.417	49.417	1.25	1.24	NO	1385.1
2	5 234678-HxCDF	373.8208	35.80	999594.251	1.181	49.800	49.800	1.19	1.24	NO	1678.7
3	6 123678-HxCDF	373.8208	34.85	1041961.157	1.089	50.762	50.762	1.18	1.24	NO	1738.6
4	4 123478-HxCDF	373.8208	34.71	960112.063	1.141	49.101	49.101	1.21	1.24	NO	1659.3
5	38 Total-hexafurans	373.8208	33.20	8048.981	1.130	0.417		1.20	1.24	NO	14.7

HPF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	9 1234789-HpCDF	407.7818	41.64	733462.219	1.295	51.140	51.140	1.02	1.05	NO	1245.7
2	39 Total-heptafurans	407.7818	39.79	6638.753	1.281	0.418		1.15	1.05	NO	13.3
3	39 Total-heptafurans	407.7818	39.49	1714.699	1.281	0.108		0.41	1.05	YES	3.2
4	8 1234678-HpCDF	407.7818	39.02	904504.906	1.267	52.061	52.061	1.01	1.05	NO	1739.1

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

Furans,TF,PP,PF,HF,HPF,OF

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	25.56	245841.023	0.924	10.211	10.211	0.75	0.77	NO	967.0
2	35 Total-tetrafurans	303.9016	24.66	2079.876	0.924	0.086		0.56	0.77	YES	5.8
3	35 Total-tetrafurans	303.9016	24.48	1620.711	0.924	0.067		0.75	0.77	NO	7.1
4	35 Total-tetrafurans	303.9016	24.33	2508.653	0.924	0.104		0.71	0.77	NO	7.8
5	37 Total-pentafurans	339.8597	28.61	9275.122	0.960	0.418		1.38	1.55	NO	24.9
6	37 Total-pentafurans	339.8597	32.07	9171.175	0.960	0.414		1.30	1.55	YES	27.4
7	3 23478-PeCDF	339.8597	31.04	1086844.407	0.966	48.026	48.026	1.52	1.55	NO	3276.0
8	37 Total-pentafurans	339.8597	29.99	2981.158	0.960	0.134		4.02	1.55	YES	12.5
9	37 Total-pentafurans	339.8597	29.90	31587.403	0.960	1.424		1.46	1.55	NO	80.2
10	2 12378-PeCDF	339.8597	29.69	1093810.407	0.954	50.342	50.342	1.53	1.55	NO	3176.9
11	7 123789-HxCDF	373.8208	36.94	836736.969	1.110	49.417	49.417	1.25	1.24	NO	1385.1
12	5 234678-HxCDF	373.8208	35.80	999594.251	1.181	49.800	49.800	1.19	1.24	NO	1678.7
13	6 123678-HxCDF	373.8208	34.85	1041961.157	1.089	50.762	50.762	1.18	1.24	NO	1738.6
14	4 123478-HxCDF	373.8208	34.71	960112.063	1.141	49.101	49.101	1.21	1.24	NO	1659.3
15	38 Total-hexafurans	373.8208	33.20	8048.981	1.130	0.417		1.20	1.24	NO	14.7
16	9 1234789-HpCDF	407.7818	41.64	733462.219	1.295	51.140	51.140	1.02	1.05	NO	1245.7
17	39 Total-heptafurans	407.7818	39.79	6638.753	1.281	0.418		1.15	1.05	NO	13.3
18	39 Total-heptafurans	407.7818	39.49	1714.699	1.281	0.108		0.41	1.05	YES	3.2
19	8 1234678-HpCDF	407.7818	39.02	904504.906	1.267	52.061	52.061	1.01	1.05	NO	1739.1
20	10 OCDF	441.7428	46.74	1006117.751	1.067	107.238	107....	0.87	0.89	NO	2686.0

TD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradiioxins	319.8965	25.81	5621.997	1.150	0.308		0.81	0.77	NO	13.6
2	11 2378-TCDD	319.8965	26.20	178093.641	1.150	9.766	9.766	0.76	0.77	NO	570.2

PD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	12 12378-PeCDD	355.8546	31.29	721680.250	1.017	48.474	48.474	1.54	1.55	NO	3093.8
2	42 Total-pentadiioxins	355.8546	30.04	390.961	1.017	0.026		1.14	1.55	YES	3.5

HD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	15 123789-HxCDD	389.8157	36.49	738849.469	0.948	52.595	52.595	1.25	1.24	NO	2215.4
2	14 123678-HxCDD	389.8157	36.07	765178.406	0.964	52.754	52.754	1.26	1.24	NO	2337.7
3	13 123478-HxCDD	389.8157	35.94	746132.531	1.017	50.259	50.259	1.27	1.24	NO	2409.6

HPD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	16 1234678-HpCDD	423.7766	40.78	649218.501	1.051	50.428	50.428	1.05	1.05	NO	1982.4
2	44 Total-heptadiioxins	423.7766	39.56	7847.063	1.051	0.610		0.93	1.05	NO	25.0

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

Dioxins,TD,PD,HD,HPD,OD

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	41 Total-tetradiioxins	319.8965	25.81	5621.997	1.150	0.308		0.81	0.77	NO	13.6
2	12 12378-PeCDD	355.8546	31.29	721680.250	1.017	48.474	48.474	1.54	1.55	NO	3093.8
3	42 Total-pentadiioxins	355.8546	30.04	390.961	1.017	0.026		1.14	1.55	YES	3.5
4	11 2378-TCDD	319.8965	26.20	178093.641	1.150	9.766	9.766	0.76	0.77	NO	570.2
5	15 123789-HxCDD	389.8157	36.49	738849.469	0.948	52.595	52.595	1.25	1.24	NO	2215.4
6	14 123678-HxCDD	389.8157	36.07	765178.406	0.964	52.754	52.754	1.26	1.24	NO	2337.7
7	13 123478-HxCDD	389.8157	35.94	746132.531	1.017	50.259	50.259	1.27	1.24	NO	2409.6
8	16 1234678-HpCDD	423.7766	40.78	649218.501	1.051	50.428	50.428	1.05	1.05	NO	1982.4
9	44 Total-heptadiioxins	423.7766	39.56	7847.063	1.051	0.610		0.93	1.05	NO	25.0
10	17 OCDD	457.7377	46.48	948686.657	1.030	104.783	104....	0.88	0.89	NO	2519.2

TotalTEQ,Furans,Dioxins

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	1 2378-TCDF	303.9016	25.56	245841.023	0.924	10.211	10.211	0.75	0.77	NO	967.0
2	35 Total-tetrafurans	303.9016	24.66	2079.876	0.924	0.086		0.56	0.77	YES	5.8
3	35 Total-tetrafurans	303.9016	24.48	1620.711	0.924	0.067		0.75	0.77	NO	7.1
4	35 Total-tetrafurans	303.9016	24.33	2508.653	0.924	0.104		0.71	0.77	NO	7.8
5	37 Total-pentafurans	339.8597	28.61	9275.122	0.960	0.418		1.38	1.55	NO	24.9
6	37 Total-pentafurans	339.8597	32.07	9171.175	0.960	0.414		1.30	1.55	YES	27.4
7	3 23478-PeCDF	339.8597	31.04	1086844.407	0.966	48.026	48.026	1.52	1.55	NO	3276.0
8	37 Total-pentafurans	339.8597	29.99	2981.158	0.960	0.134		4.02	1.55	YES	12.5
9	37 Total-pentafurans	339.8597	29.90	31587.403	0.960	1.424		1.46	1.55	NO	80.2
10	2 12378-PeCDF	339.8597	29.69	1093810.407	0.954	50.342	50.342	1.53	1.55	NO	3176.9
11	7 123789-HxCDF	373.8208	36.94	836736.969	1.110	49.417	49.417	1.25	1.24	NO	1385.1
12	5 234678-HxCDF	373.8208	35.80	999594.251	1.181	49.800	49.800	1.19	1.24	NO	1678.7
13	6 123678-HxCDF	373.8208	34.85	1041961.157	1.089	50.762	50.762	1.18	1.24	NO	1738.6
14	4 123478-HxCDF	373.8208	34.71	960112.063	1.141	49.101	49.101	1.21	1.24	NO	1659.3
15	38 Total-hexafurans	373.8208	33.20	8048.981	1.130	0.417		1.20	1.24	NO	14.7
16	9 1234789-HpCDF	407.7818	41.64	733462.219	1.295	51.140	51.140	1.02	1.05	NO	1245.7
17	39 Total-heptafurans	407.7818	39.79	6638.753	1.281	0.418		1.15	1.05	NO	13.3
18	39 Total-heptafurans	407.7818	39.49	1714.699	1.281	0.108		0.41	1.05	YES	3.2
19	8 1234678-HpCDF	407.7818	39.02	904504.906	1.267	52.061	52.061	1.01	1.05	NO	1739.1
20	10 OCDF	441.7428	46.74	1006117.751	1.067	107.238	107....	0.87	0.89	NO	2686.0
21	41 Total-tetradiioxins	319.8965	25.81	5621.997	1.150	0.308		0.81	0.77	NO	13.6
22	12 12378-PeCDD	355.8546	31.29	721680.250	1.017	48.474	48.474	1.54	1.55	NO	3093.8
23	42 Total-pentadiioxins	355.8546	30.04	390.961	1.017	0.026		1.14	1.55	YES	3.5
24	11 2378-TCDD	319.8965	26.20	178093.641	1.150	9.766	9.766	0.76	0.77	NO	570.2
25	15 123789-HxCDD	389.8157	36.49	738849.469	0.948	52.595	52.595	1.25	1.24	NO	2215.4
26	14 123678-HxCDD	389.8157	36.07	765178.406	0.964	52.754	52.754	1.26	1.24	NO	2337.7
27	13 123478-HxCDD	389.8157	35.94	746132.531	1.017	50.259	50.259	1.27	1.24	NO	2409.6
28	16 1234678-HpCDD	423.7766	40.78	649218.501	1.051	50.428	50.428	1.05	1.05	NO	1982.4
29	44 Total-heptadiioxins	423.7766	39.56	7847.063	1.051	0.610		0.93	1.05	NO	25.0
30	17 OCDD	457.7377	46.48	948686.657	1.030	104.783	104....	0.88	0.89	NO	2519.2

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

PFK1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	48 FUNCTION1 PFK	330.9792	25.72	0.000							0.6
2	48 FUNCTION1 PFK	330.9792	25.30	0.000							1.4
3	48 FUNCTION1 PFK	330.9792	25.11	0.000							1.1
4	48 FUNCTION1 PFK	330.9792	25.05	0.000							1.9
5	48 FUNCTION1 PFK	330.9792	24.91	0.000							2.4
6	48 FUNCTION1 PFK	330.9792	23.64	0.000							0.6
7	48 FUNCTION1 PFK	330.9792	22.85	0.000							1.0
8	48 FUNCTION1 PFK	330.9792	21.57	0.000							1.9
9	48 FUNCTION1 PFK	330.9792	27.68	0.000							1.8
10	48 FUNCTION1 PFK	330.9792	27.57	0.000							1.3
11	48 FUNCTION1 PFK	330.9792	27.35	0.000							1.5
12	48 FUNCTION1 PFK	330.9792	27.29	0.000							1.8

PFK2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	49 FUNCTION2 PFK	366.9792	29.55	0.000		0.000					1.1
2	49 FUNCTION2 PFK	366.9792	29.37	0.000		0.000					1.1
3	49 FUNCTION2 PFK	366.9792	29.27	0.000		0.000					0.9
4	49 FUNCTION2 PFK	366.9792	29.16	0.000		0.000					1.6
5	49 FUNCTION2 PFK	366.9792	29.02	0.000		0.000					0.8
6	49 FUNCTION2 PFK	366.9792	28.94	0.000		0.000					1.2
7	49 FUNCTION2 PFK	366.9792	28.82	0.000		0.000					0.5
8	49 FUNCTION2 PFK	366.9792	28.71	0.000		0.000					1.3
9	49 FUNCTION2 PFK	366.9792	28.59	0.000		0.000					0.8
10	49 FUNCTION2 PFK	366.9792	28.50	0.000		0.000					0.3
11	49 FUNCTION2 PFK	366.9792	28.04	0.000		0.000					1.3
12	49 FUNCTION2 PFK	366.9792	32.32	0.000		0.000					0.5
13	49 FUNCTION2 PFK	366.9792	31.99	0.000		0.000					1.4
14	49 FUNCTION2 PFK	366.9792	31.77	0.000		0.000					0.8
15	49 FUNCTION2 PFK	366.9792	31.63	0.000		0.000					1.0
16	49 FUNCTION2 PFK	366.9792	31.51	0.000		0.000					0.3
17	49 FUNCTION2 PFK	366.9792	31.40	0.000		0.000					1.3
18	49 FUNCTION2 PFK	366.9792	31.05	0.000		0.000					1.3
19	49 FUNCTION2 PFK	366.9792	30.92	0.000		0.000					0.7
20	49 FUNCTION2 PFK	366.9792	30.87	0.000		0.000					0.5
21	49 FUNCTION2 PFK	366.9792	30.74	0.000		0.000					1.4
22	49 FUNCTION2 PFK	366.9792	30.63	0.000		0.000					0.6
23	49 FUNCTION2 PFK	366.9792	30.59	0.000		0.000					0.8
24	49 FUNCTION2 PFK	366.9792	30.26	0.000		0.000					1.4
25	49 FUNCTION2 PFK	366.9792	30.11	0.000		0.000					0.7
26	49 FUNCTION2 PFK	366.9792	29.80	0.000		0.000					0.6
27	49 FUNCTION2 PFK	366.9792	29.73	0.000		0.000					0.9
28	49 FUNCTION2 PFK	366.9792	32.46	0.000		0.000					0.4

PFK3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	50 FUNCTION3 PFK	380.9760	37.94	0.000		0.000					4.7
2	50 FUNCTION3 PFK	380.9760	37.67	0.000		0.000					5.5

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
 Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

PFK4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

PFK5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	52 FUNCTION5 PFK	480.9696	45.98	0.000							1.9
2	52 FUNCTION5 PFK	480.9696	45.51	0.000							1.2
3	52 FUNCTION5 PFK	480.9696	45.42	0.000							0.6
4	52 FUNCTION5 PFK	480.9696	45.34	0.000							1.7
5	52 FUNCTION5 PFK	480.9696	45.30	0.000							1.2
6	52 FUNCTION5 PFK	480.9696	45.03	0.000							1.9
7	52 FUNCTION5 PFK	480.9696	44.86	0.000							6.9
8	52 FUNCTION5 PFK	480.9696	44.79	0.000							12.1
9	52 FUNCTION5 PFK	480.9696	44.70	0.000							17.1
10	52 FUNCTION5 PFK	480.9696	44.57	0.000							26.2
11	52 FUNCTION5 PFK	480.9696	47.86	0.000							1.5
12	52 FUNCTION5 PFK	480.9696	47.78	0.000							1.3
13	52 FUNCTION5 PFK	480.9696	47.58	0.000							0.5
14	52 FUNCTION5 PFK	480.9696	47.49	0.000							2.9
15	52 FUNCTION5 PFK	480.9696	47.45	0.000							1.6
16	52 FUNCTION5 PFK	480.9696	47.32	0.000							1.3
17	52 FUNCTION5 PFK	480.9696	47.29	0.000							0.9
18	52 FUNCTION5 PFK	480.9696	47.26	0.000							1.3
19	52 FUNCTION5 PFK	480.9696	47.22	0.000							1.5
20	52 FUNCTION5 PFK	480.9696	47.09	0.000							1.1
21	52 FUNCTION5 PFK	480.9696	46.78	0.000							1.8
22	52 FUNCTION5 PFK	480.9696	46.71	0.000							1.4
23	52 FUNCTION5 PFK	480.9696	46.55	0.000							2.1
24	52 FUNCTION5 PFK	480.9696	46.50	0.000							1.7
25	52 FUNCTION5 PFK	480.9696	46.36	0.000							2.0
26	52 FUNCTION5 PFK	480.9696	46.04	0.000							2.0
27	52 FUNCTION5 PFK	480.9696	49.43	0.000							2.7
28	52 FUNCTION5 PFK	480.9696	49.36	0.000							1.6
29	52 FUNCTION5 PFK	480.9696	49.06	0.000							1.0
30	52 FUNCTION5 PFK	480.9696	48.96	0.000							1.3
31	52 FUNCTION5 PFK	480.9696	48.86	0.000							1.7
32	52 FUNCTION5 PFK	480.9696	48.61	0.000							1.4
33	52 FUNCTION5 PFK	480.9696	48.33	0.000							1.8
34	52 FUNCTION5 PFK	480.9696	48.13	0.000							2.1
35	52 FUNCTION5 PFK	480.9696	47.94	0.000							1.6

ETHERS1

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	53 FUNCTION1 HXCD...	375.8364	27.30	0.000		0.000					0.9
2	53 FUNCTION1 HXCD...	375.8364	26.57	0.000		0.000					5.8

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
 Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
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ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

ETHERS2

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	54 FUNCTION1 HPCD...	409.7974	21.89	0.000		0.000					0.9
2	54 FUNCTION1 HPCD...	409.7974	21.52	0.000		0.000					2.7
3	54 FUNCTION1 HPCD...	409.7974	21.28	0.000		0.000					1.9
4	54 FUNCTION1 HPCD...	409.7974	27.84	0.000		0.000					2.0
5	54 FUNCTION1 HPCD...	409.7974	27.69	0.000		0.000					1.7
6	54 FUNCTION1 HPCD...	409.7974	27.32	0.000		0.000					1.2
7	54 FUNCTION1 HPCD...	409.7974	27.09	0.000		0.000					2.5
8	54 FUNCTION1 HPCD...	409.7974	26.59	0.000		0.000					2.5
9	54 FUNCTION1 HPCD...	409.7974	26.50	0.000		0.000					2.9
10	54 FUNCTION1 HPCD...	409.7974	25.97	0.000		0.000					1.5
11	54 FUNCTION1 HPCD...	409.7974	25.20	0.000		0.000					1.1
12	54 FUNCTION1 HPCD...	409.7974	25.09	0.000		0.000					2.7
13	54 FUNCTION1 HPCD...	409.7974	25.00	0.000		0.000					1.3
14	54 FUNCTION1 HPCD...	409.7974	24.78	0.000		0.000					1.6
15	54 FUNCTION1 HPCD...	409.7974	24.55	0.000		0.000					1.6
16	54 FUNCTION1 HPCD...	409.7974	24.30	0.000		0.000					1.7
17	54 FUNCTION1 HPCD...	409.7974	23.67	0.000		0.000					1.0
18	54 FUNCTION1 HPCD...	409.7974	22.64	0.000		0.000					1.5

ETHERS3

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	55 FUNCTION2 HPCD...	409.7974	30.13	0.000		0.000					5.0

ETHERS4

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1	56 FUNCTION3 OCDPE	445.7555	37.82	0.000		0.000					6.2

ETHERS5

	# Name	Trace	RT	Abs.Resp	RRF M...	pg	EMPC	1° Rati...	1° Rati...	1° R...	S/N
1											

ETHERS6

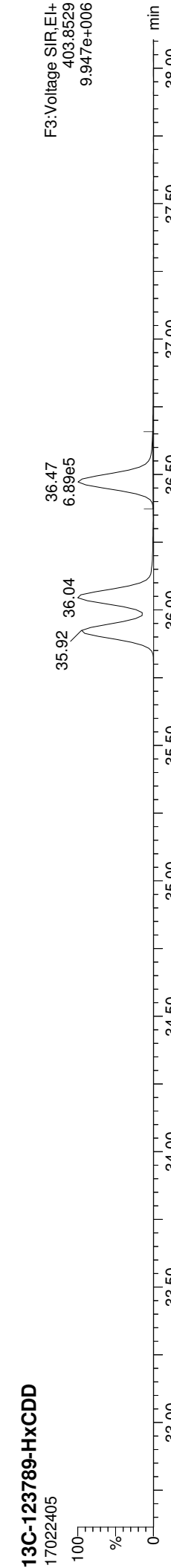
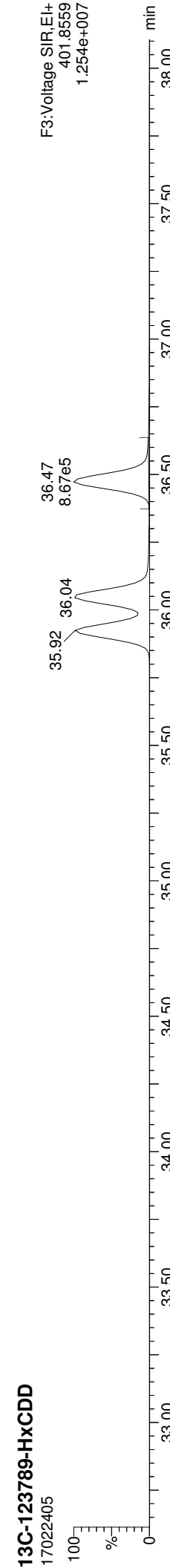
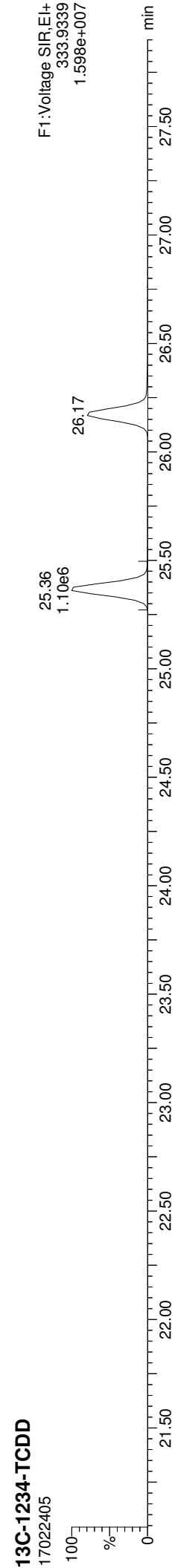
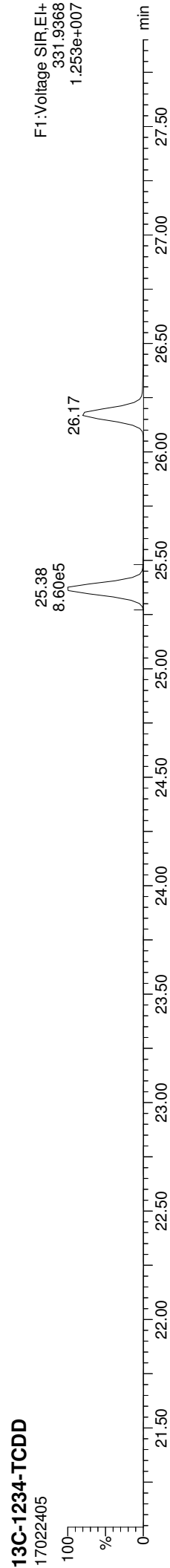
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1											

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170224.mdb 27 Feb 2017 09:30:36
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

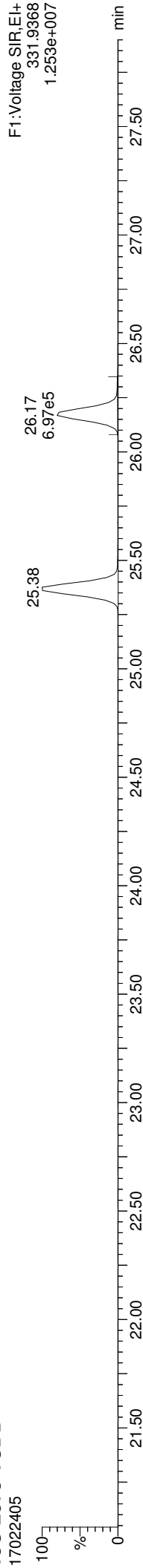


Quantify Sample Report

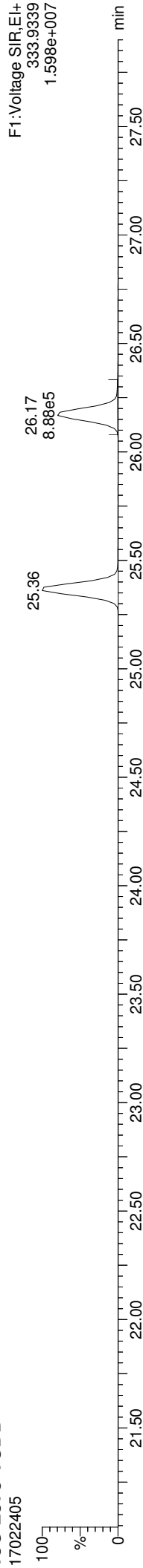
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Dataset: C:\MassLynx\Dioxin.pro\17022405.d
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
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ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

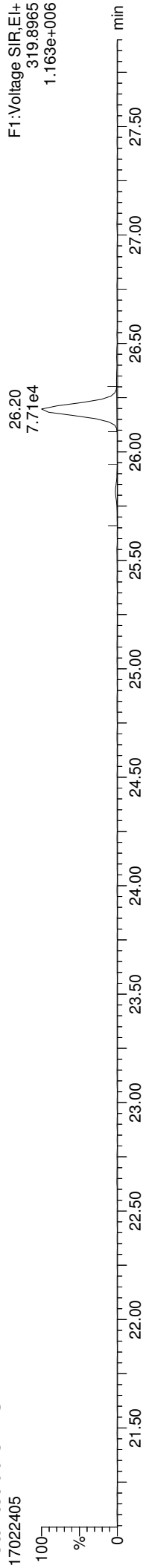
13C-2378-TCDD



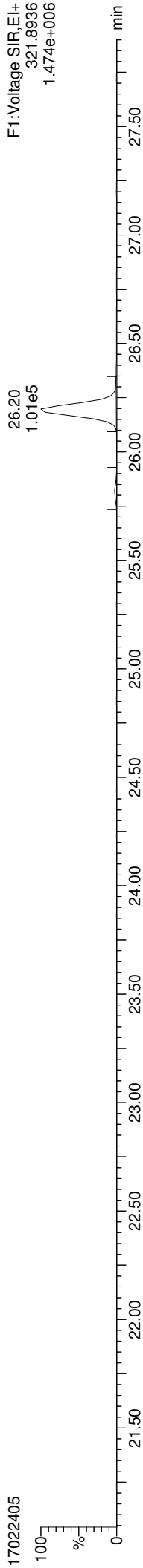
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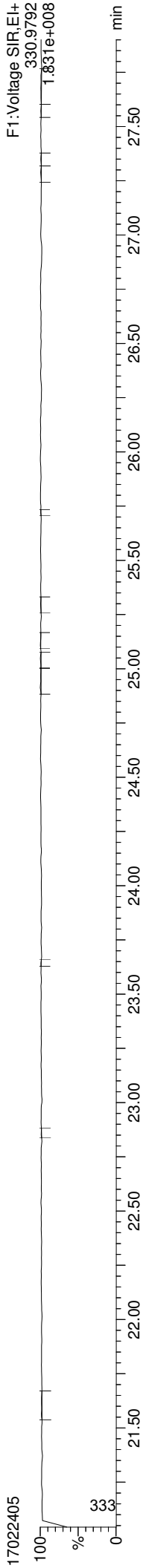
Total-tetradoxins



Total-tetradoxins



FUNCTION1 PFK

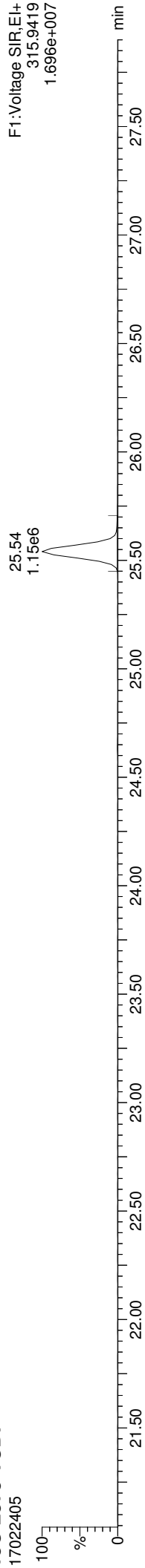


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

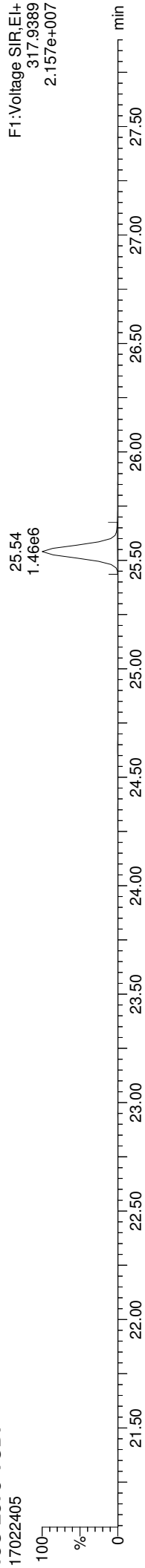
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

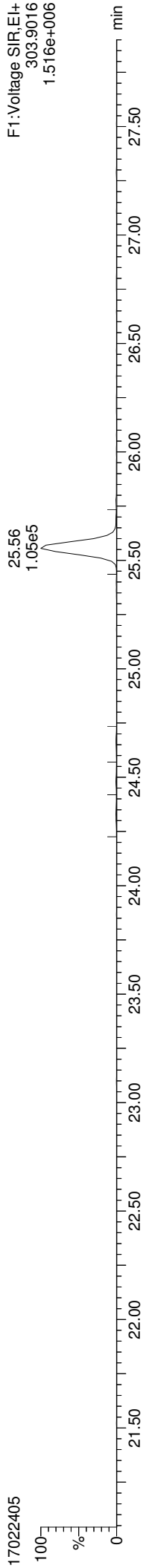
13C-2378-TCDF



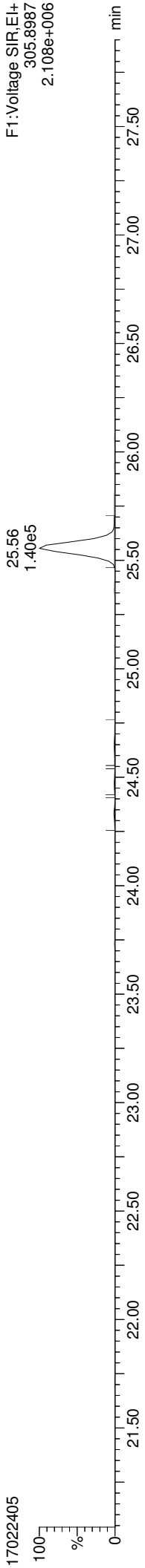
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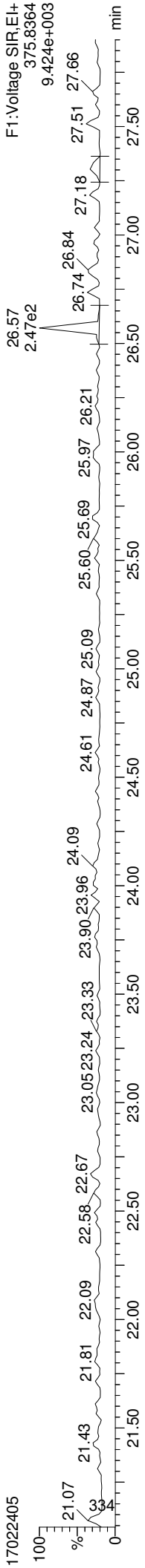
Total-tetrafurans



Total-tetrafurans

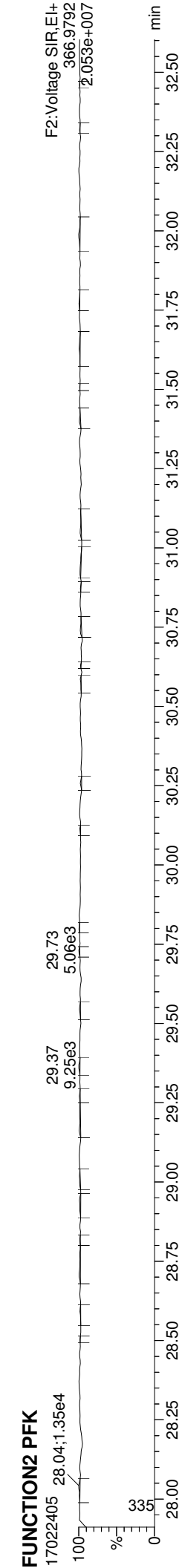
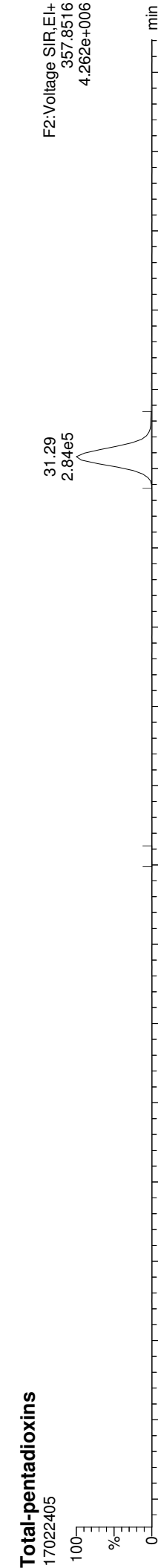
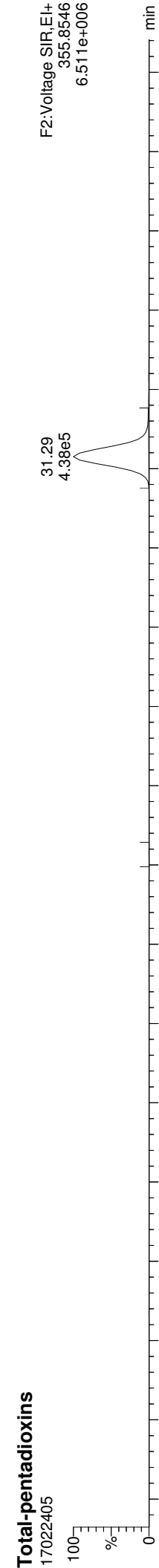
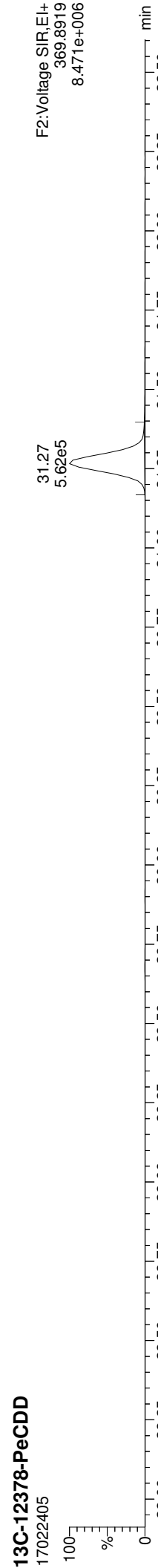
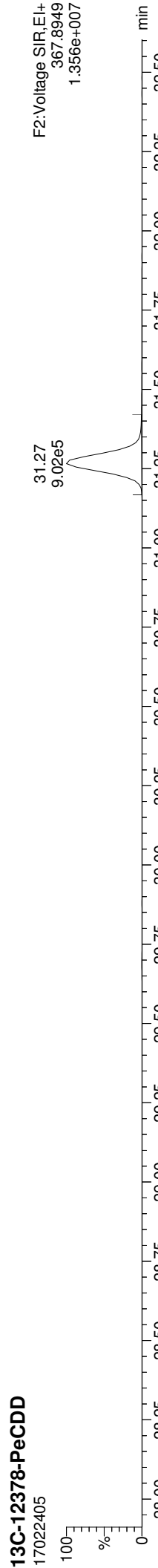


FUNCTION1 HXCDPE



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

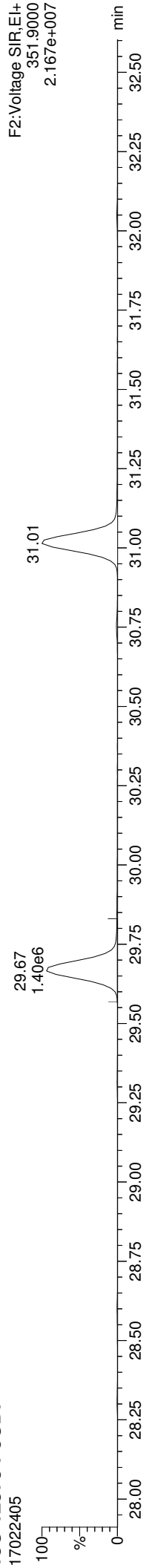


Quantify Sample Report

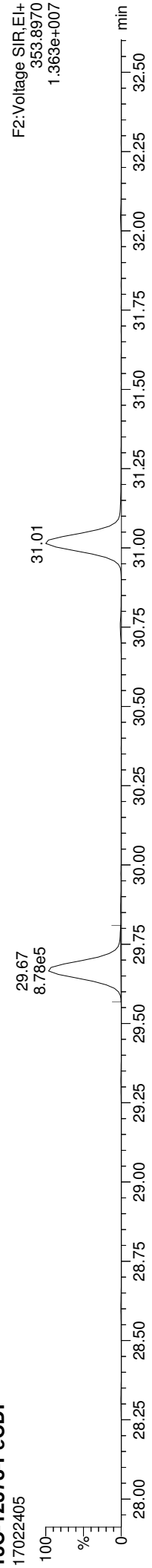
MassLynx MassLynx V4.1 SCN909
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

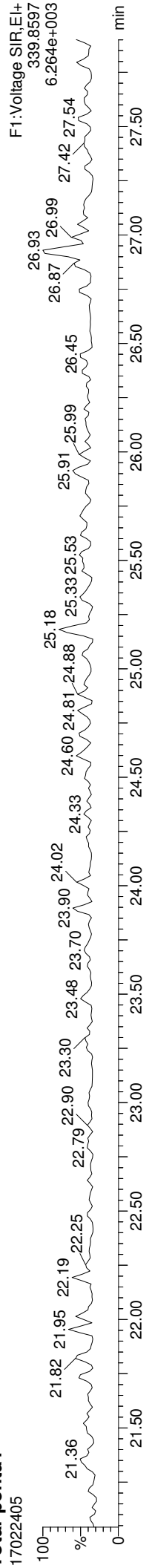
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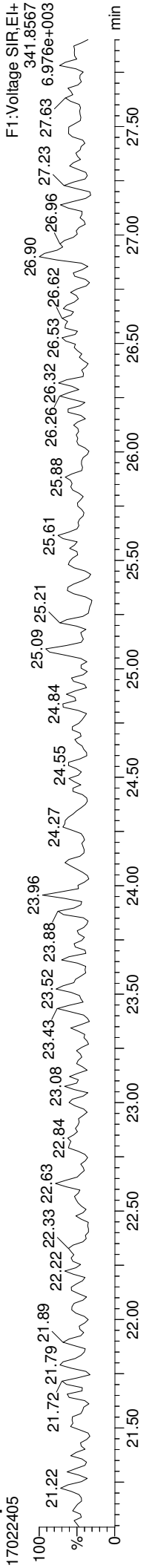
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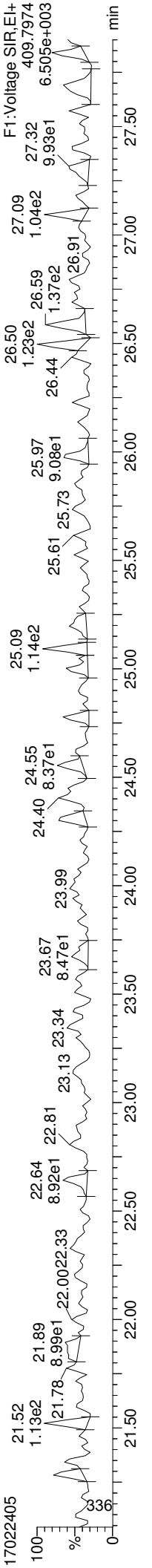
Total-penta1



Total-penta1



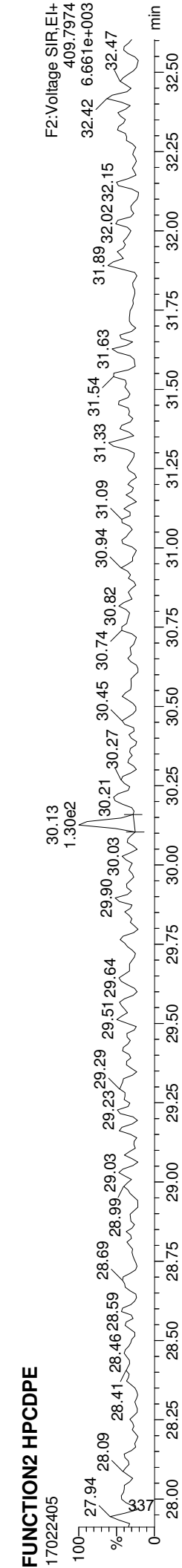
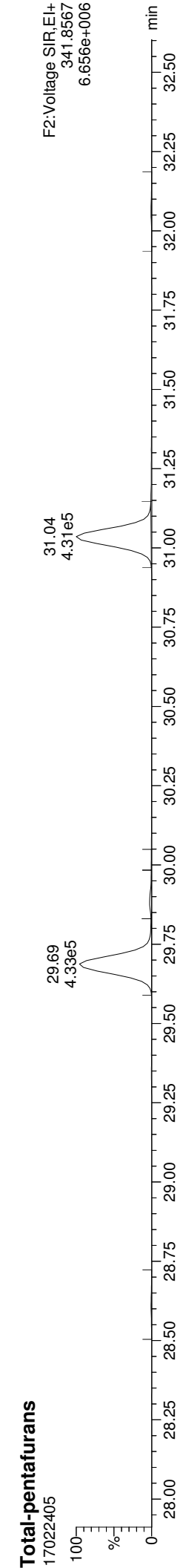
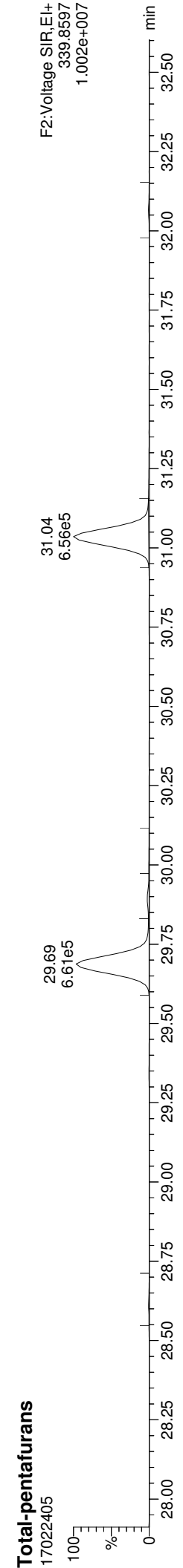
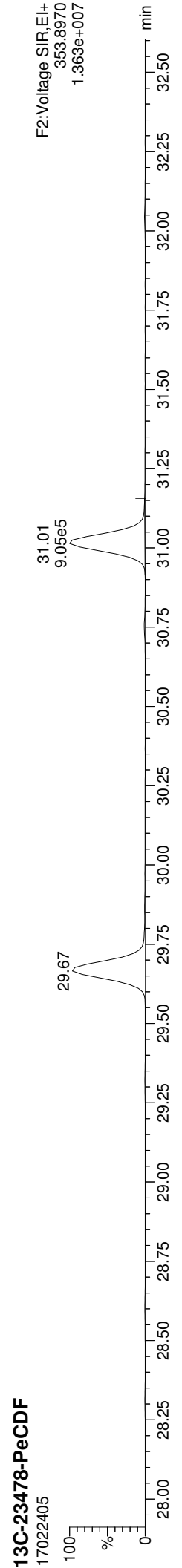
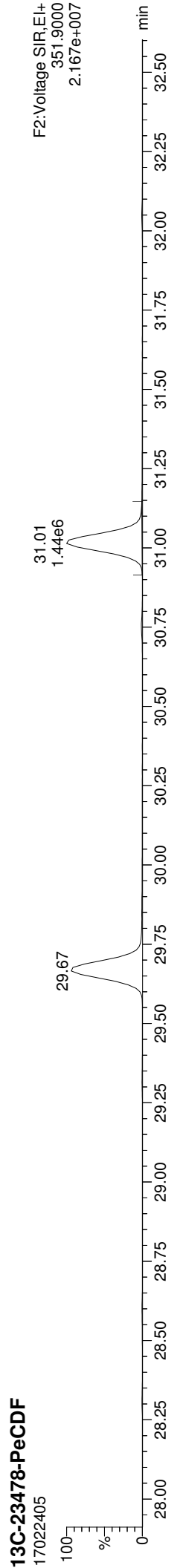
FUNCTION1 HPCDPE



Quantify Sample Report
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

MassLynx MassLynx V4.1 SCN909

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

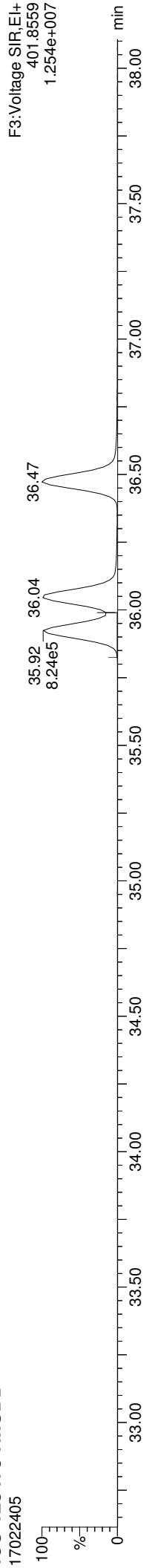


Quantify Sample Report
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Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

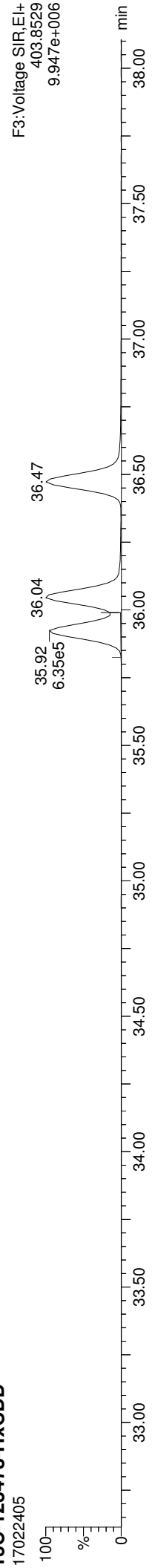
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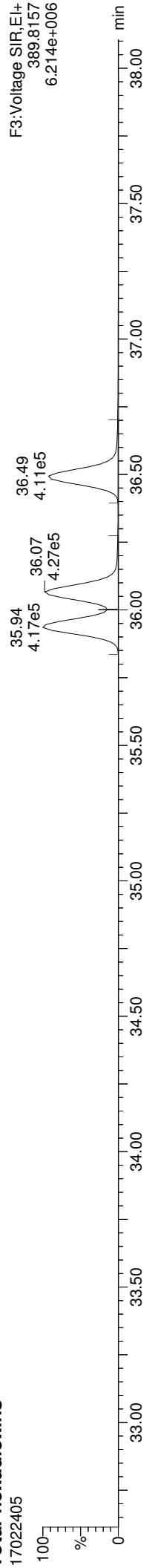
13C-123478-HxCDD



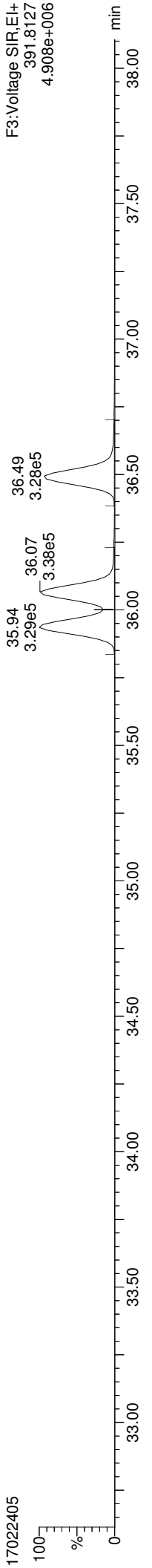
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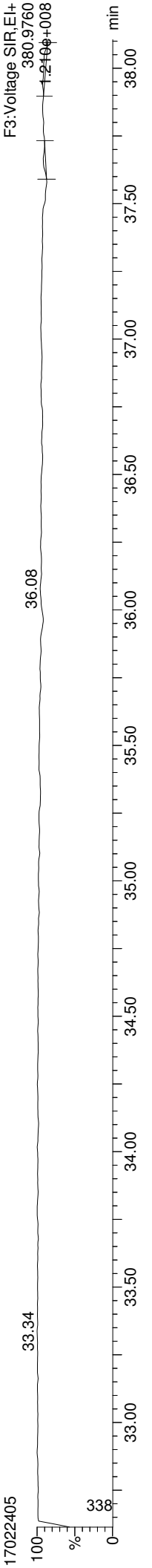
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK



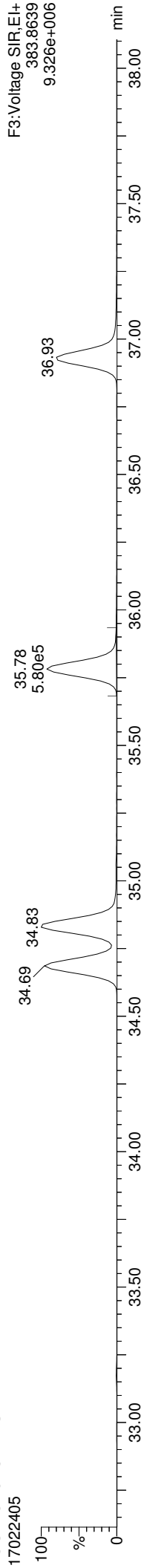
Quantify Sample Report

MassLynx MassLynx V4.1 SCN909

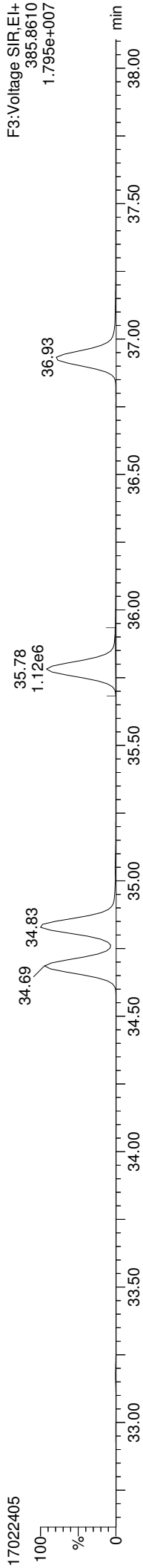
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

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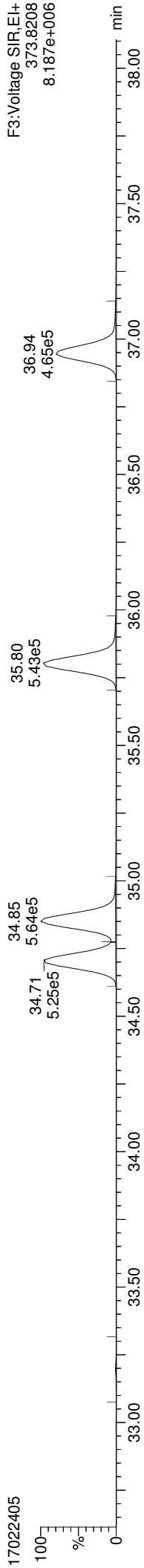
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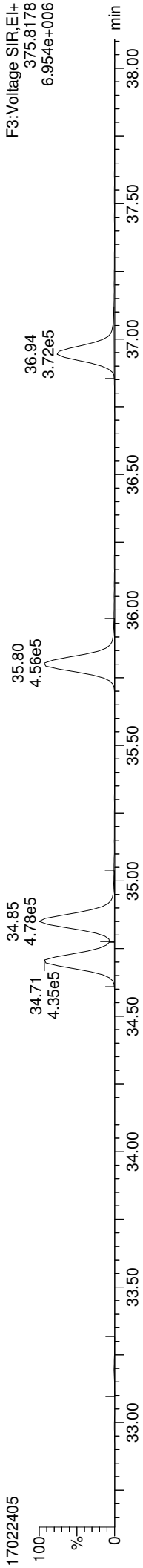
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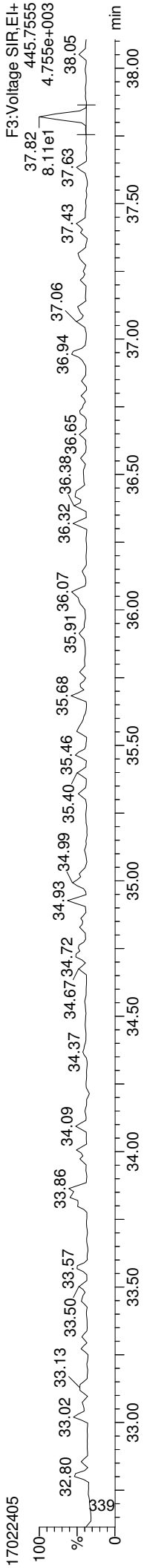
Total-hexafurans



Total-hexafurans

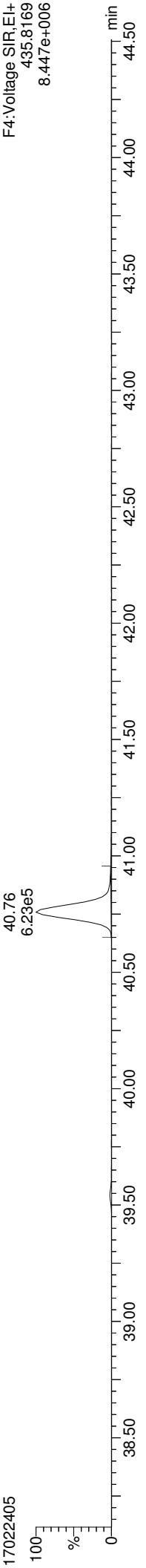


FUNCTION3 OCDPE

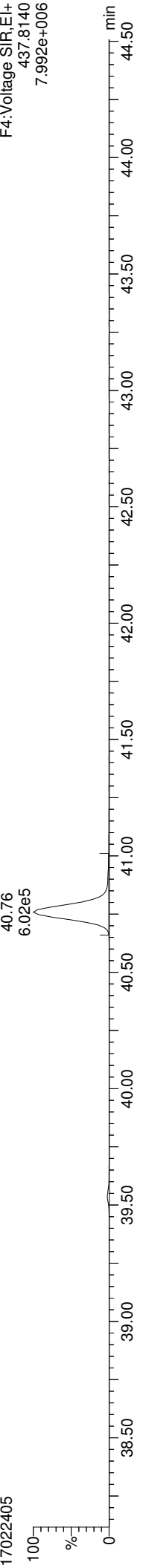


ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

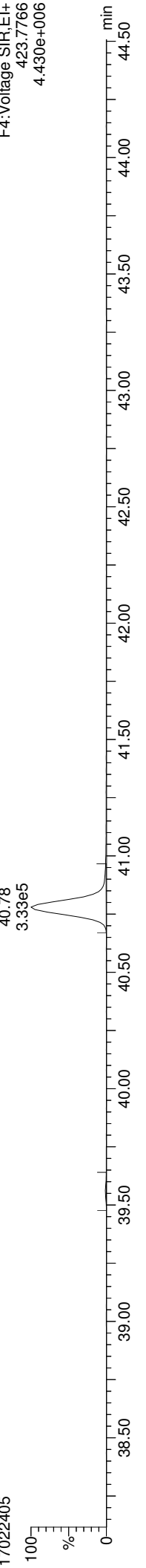
13C-1234678-HpCDD



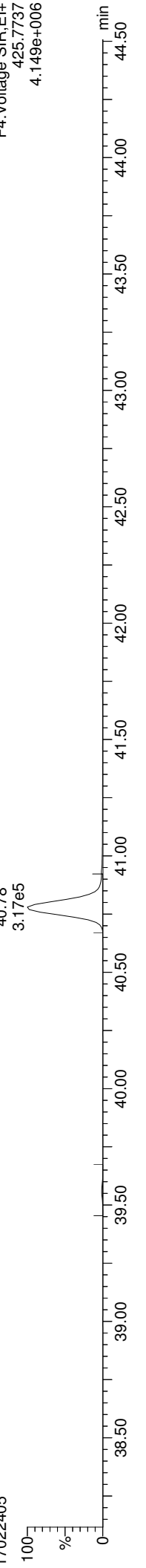
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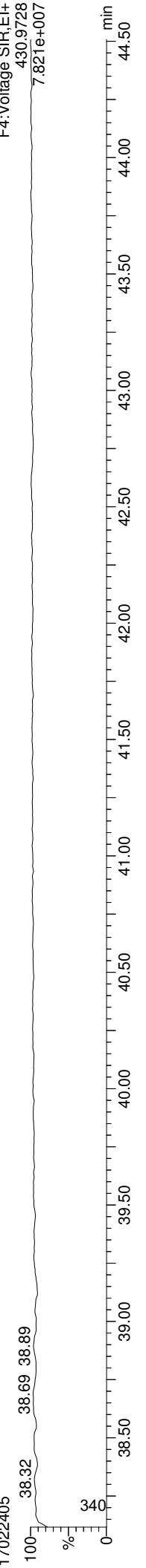
Total-heptadioxins



Total-heptadioxins



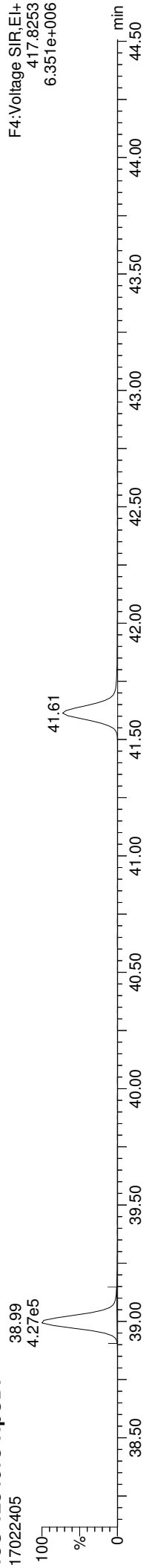
FUNCTION4 PFK



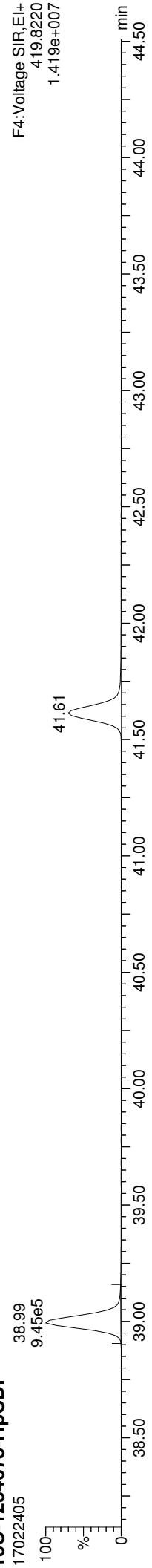
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170224D.qld
Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

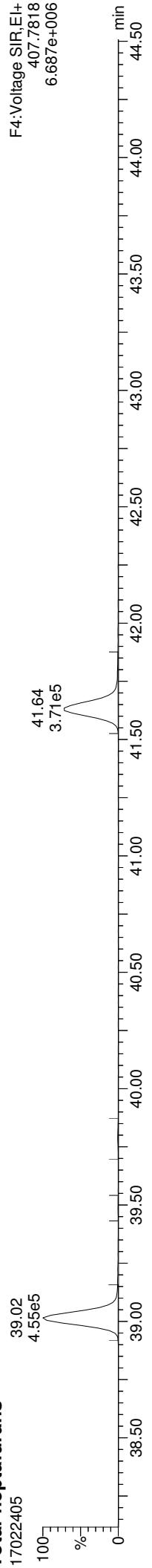
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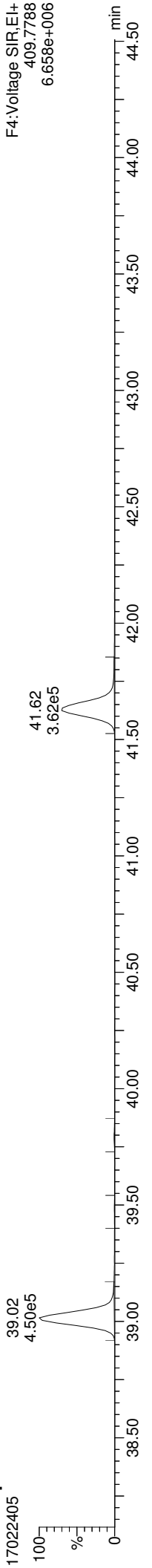
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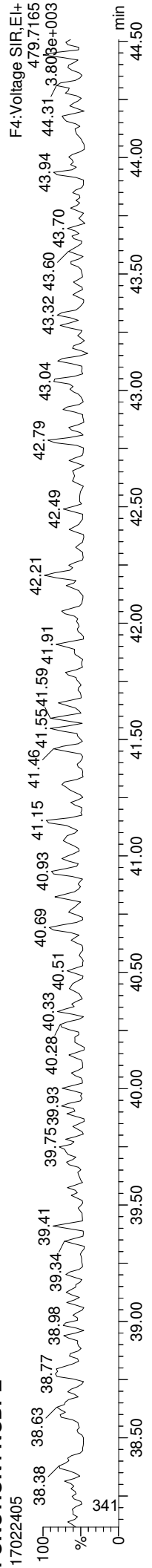
Total-heptafurans



Total-heptafurans

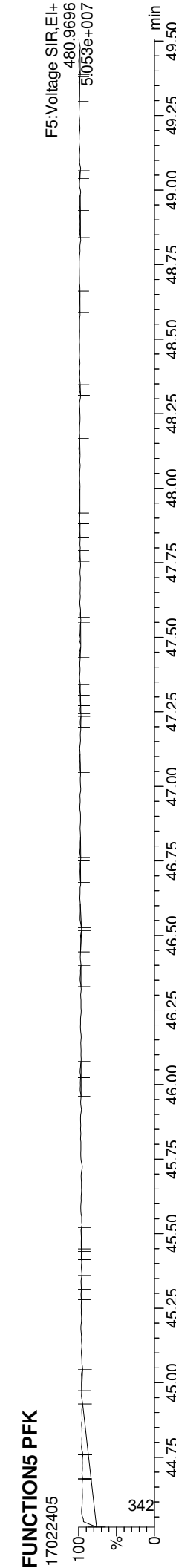
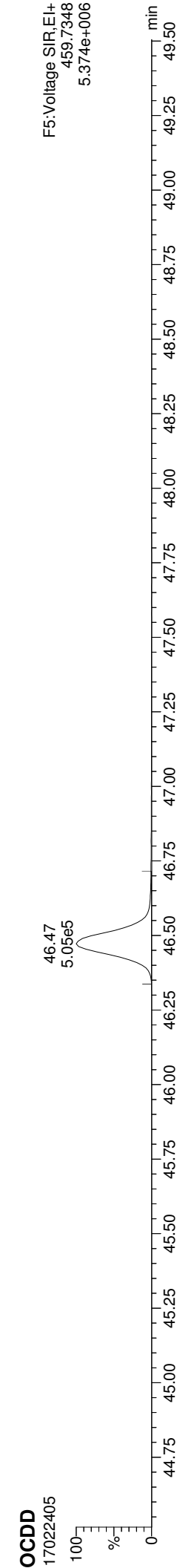
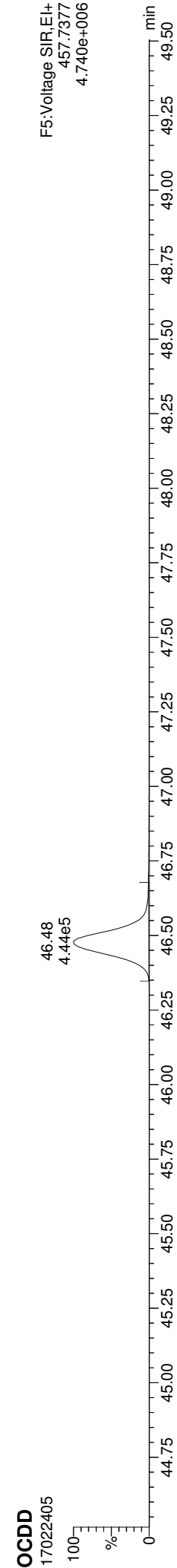
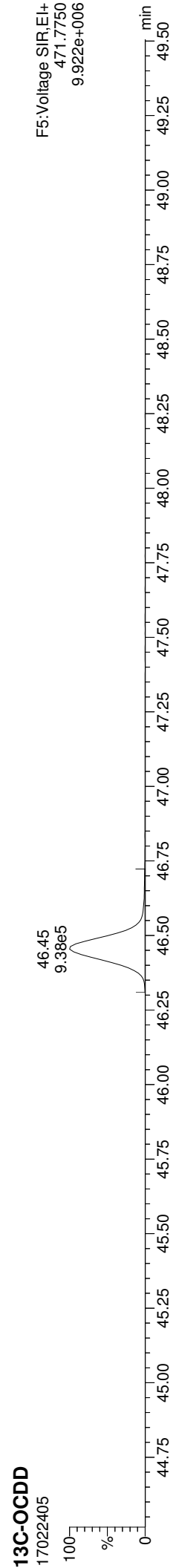
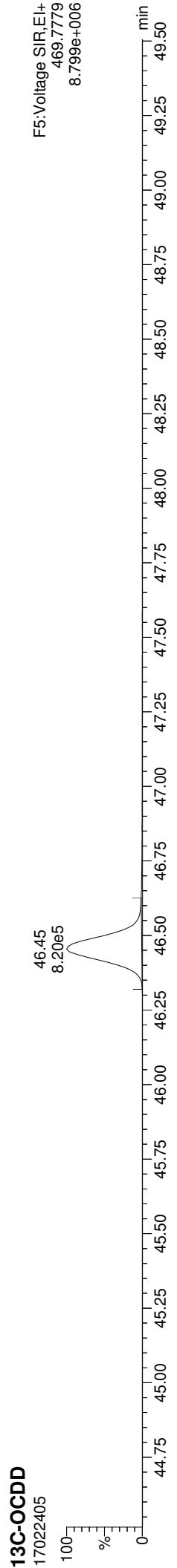


FUNCTION4 NCDPE



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

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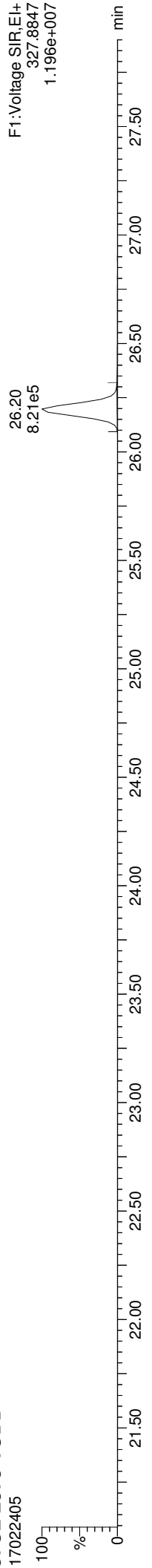


Quantify Sample Report

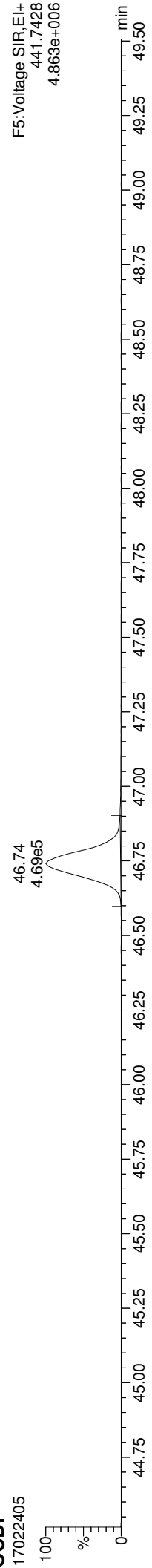
MassLynx MassLynx V4.1 SCN909
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Last Altered: Monday, February 27, 2017 10:34:48 Pacific Standard Time
Printed: Monday, February 27, 2017 12:17:52 Pacific Standard Time

ID: BFB0538-BS1, Name: 17022405, Date: 24-Feb-2017, Time: 16:46:00, Conditions: AUTOSPEC01, User: PK

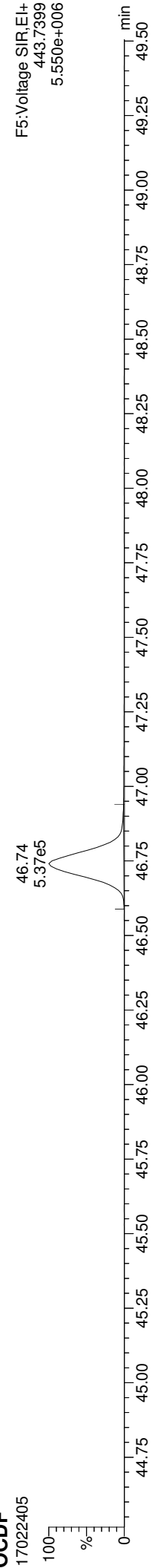
37CL-2378-TCDD



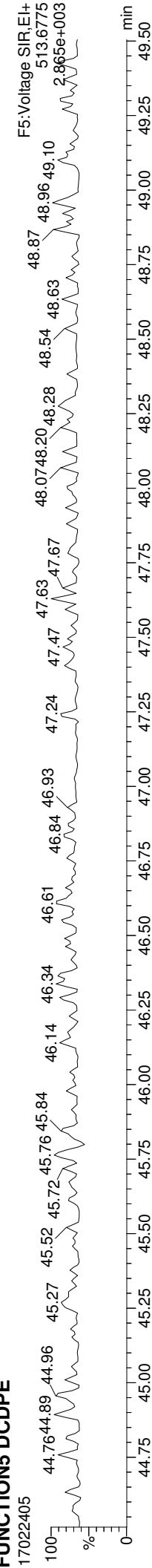
OCDF



OCDF



FUNCTION5 DCDPE





INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, Inc.	SDG:	17A0053
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Calibration:	AA00071	Instrument:	AUTOSPEC01
Calibration Date:	01/25/2017 11:42	Column (1):	RTX-Dioxin2

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
2,3,7,8-TCDF	0.9244412	3.9			RSD ()	
2,3,7,8-TCDD	1.150069	2.2			RSD ()	
1,2,3,7,8-PeCDF	0.9538591	1.9			RSD ()	
2,3,4,7,8-PeCDF	0.9661353	2.0			RSD ()	
1,2,3,7,8-PeCDD	1.017142	3.8			RSD ()	
1,2,3,4,7,8-HxCDF	1.140682	3.9			RSD ()	
1,2,3,6,7,8-HxCDF	1.089217	3.2			RSD ()	
2,3,4,6,7,8-HxCDF	1.181484	2.7			RSD ()	
1,2,3,7,8,9-HxCDF	1.109954	3.0			RSD ()	
1,2,3,4,7,8-HxCDD	1.017278	1.9			RSD ()	
1,2,3,6,7,8-HxCDD	0.9644562	3.1			RSD ()	
1,2,3,7,8,9-HxCDD	0.9481378	4.2			RSD ()	
1,2,3,4,6,7,8-HpCDF	1.267009	2.5			RSD ()	
1,2,3,4,7,8,9-HpCDF	1.295171	4.3			RSD ()	
1,2,3,4,6,7,8-HpCDD	1.050922	3.6			RSD ()	
OCDF	1.067138	6.3			RSD ()	
OCDD	1.029799	6.9			RSD ()	
37C14-2,3,7,8-TCDD	1.073275	6.4			RSD ()	



In-House Dioxin Curve 1/24/17

HR-GC/MS Analyst Notes / Data Review Checklist

ELEMENT/NWA: _____

Client ID: _____

Element Calibration Code: AA00071

METHOD: 1613B (Dioxins) 8290A (Dioxins)

Instrument: **AutoSpec01**

Analysis Start Date: 1/24/17

Resolution Check > 10,000ppm REVIEW 1/REVIEW 2
Y/N/_____

Signal / Noise \geq 3.0? REVIEW 1/REVIEW 2
Y/N/_____

TCDD /TCDF Resolution \leq 25% Y/N/_____

Extraction STD Limits Met? Y/N/_____

PCDF Windows Verified Y/N/_____

Cleanup STD Limits Met? Y/N/_____

ICV/CCV %D limits met? Y/N/_____

Method Blank in Control? Y/N/_____

ICV/CCV Ratios limits met? Y/N/_____

OPR Recovery Limits Met? Y/N/_____

ICV/CCV RRT limits met? Y/N/_____

Values Exceeding Curve Range? Y/N/_____

Manual Integrations? Y/N/_____

Samples Diluted? Y/N/_____

VDP Completed? NA/Y/N/_____

Duplicate Sample RPD \leq 25%? NA/_____

EPA Case # NA/_____

Technical Review? _____/_____

Detail problems, corrective actions and/or other pertinent information below:

- TCDD/TCDF 5 pt curves = CSL - CSS. All others 6 pt curves = CSL - CSS.
- All cpds $<$ 20% RSD. All avg.
- Man Int for Ref in CSL.
- Sequence SFA0265

(Review 1)Analyst: Phyllis Date: 1/25/17

(Review 2)Peer: _____ Date: _____

(Final Review)Reviewer: _____ Date: _____

Analytical Resources Inc.: Organics Instrument Log

AutoSpec01 Serial No.: GC=CN10921030, MS=P764

Date: 1/24/17 Analysis: Dioxins Analyst: ju
 GC Program: 829017 Column No: 6447 Column Type: Venturion 2
 Inj Vol: 1ul Instrument Tune (IPR): Jan 17 15 Detector Voltage: 350
 Resolution Check Files: _____ Curve Date: 1/24/17

IS/SS	Ical/Ccal	LCS/ICV
	D621 D622	
	D620 E001	E002
	E3891 E448	
	D623	

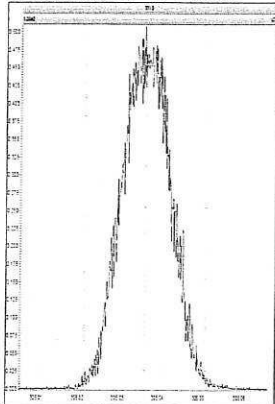
#	Acq.Date	Acq.Time	File	ID	Comments
1	24-Jan-17	14:00:08	17012402	CS3C1	
2	24-Jan-17	14:51:32	17012403	ISCC1	
3	24-Jan-17	15:44:42	17012404	IB	SFA0261 BPA
4	24-Jan-17	16:37:53	17012405	CSL	SFA0265 IH
5	24-Jan-17	17:31:17	17012406	CS1	
6	24-Jan-17	18:24:29	17012407	CS2	
7	24-Jan-17	19:17:52	17012408	CS3	
8	24-Jan-17	20:11:05	17012409	CS4	
9	24-Jan-17	21:04:19	17012410	CS5	
10	24-Jan-17	21:57:32	17012411	ICV	
11	24-Jan-17	22:50:56	17012412	ISCC2	

[Handwritten signature] ju 1/25/17

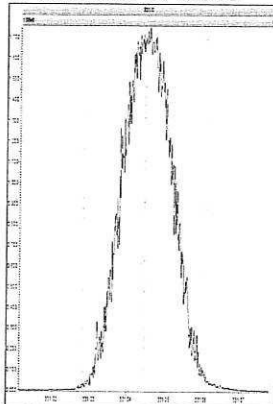
Element Curves = AA00070
AA00071

Every line must contain information or be lined out. Make all entries legible.
 Start a new page for each QC period. Document All Maintenance Tasks In Element LIMS

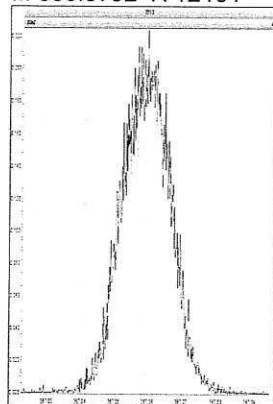
M 304.9824 R 11990



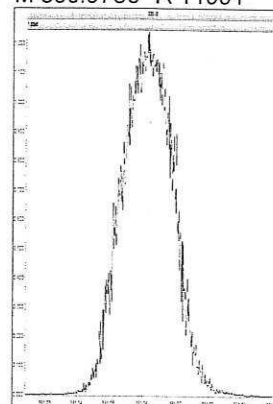
M 330.9792 R 12049



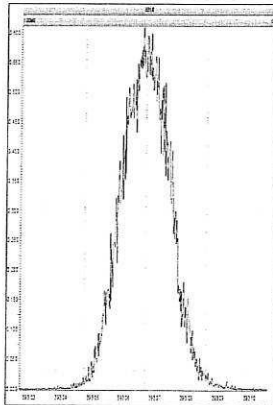
M 366.9792 R 12191



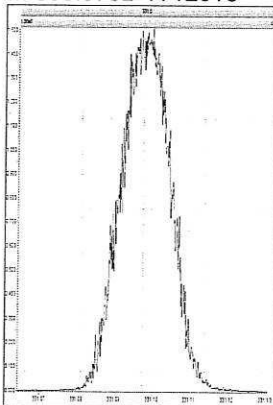
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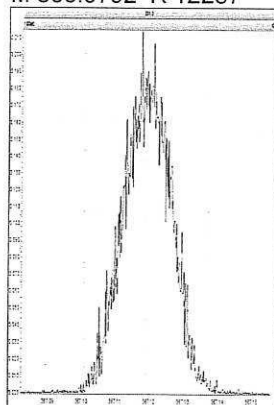
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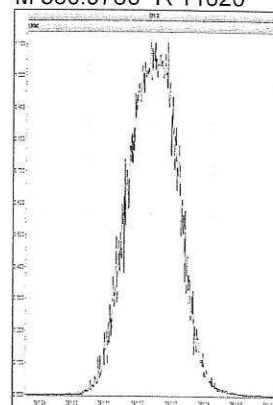
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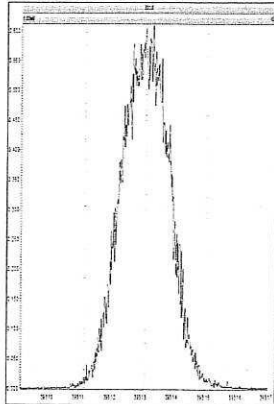
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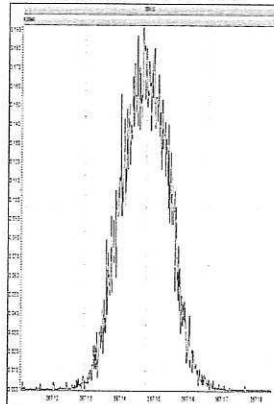
M 380.9760 R 11820



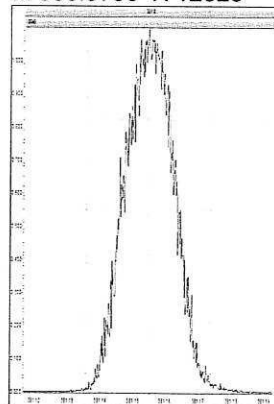
M 392.9760 R 11764



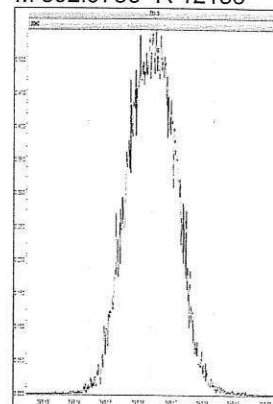
M 366.9792 R 12410



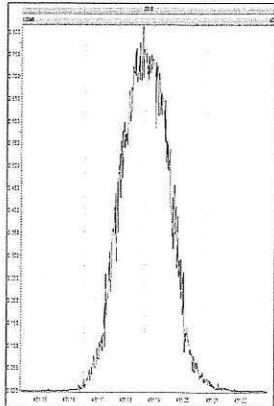
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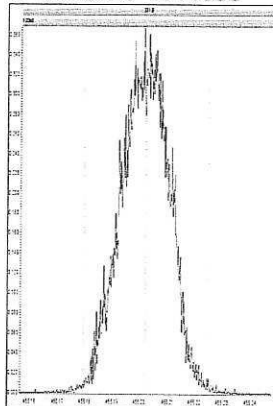
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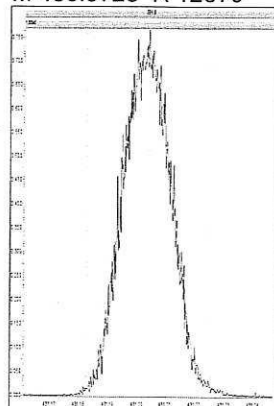
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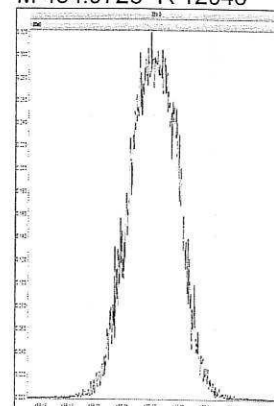
M 454.9728 R 11968



M 430.9728 R 12079

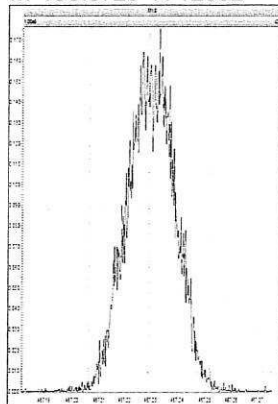


M 454.9728 R 12048

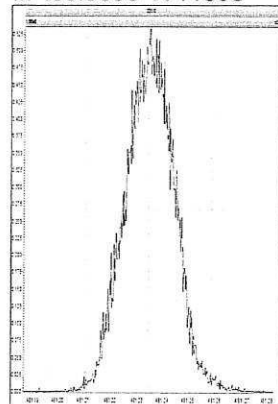


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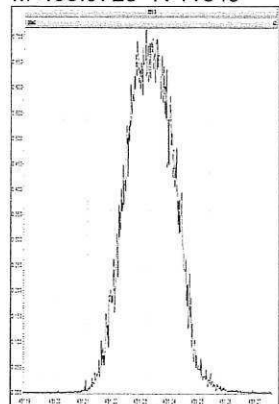
M 466.9728 R 12502



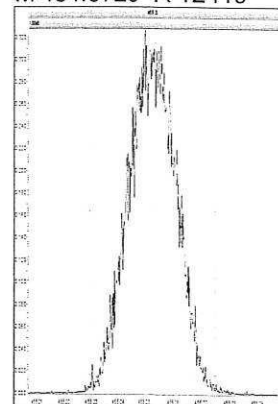
M 480.9696 R 11338



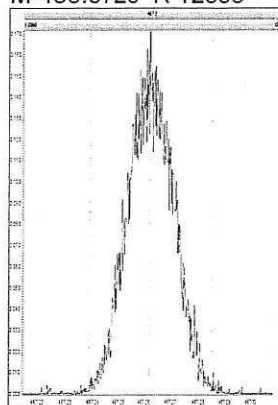
M 430.9728 R 11849



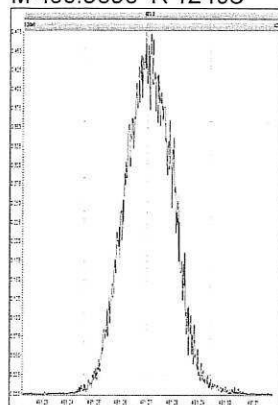
M 454.9728 R 12419



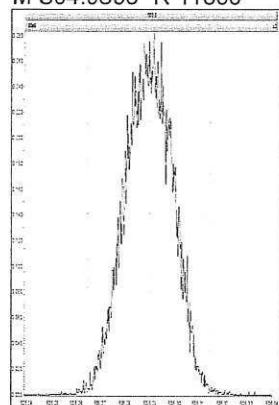
M 466.9728 R 12533



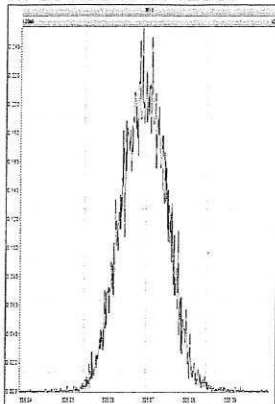
M 480.9696 R 12408



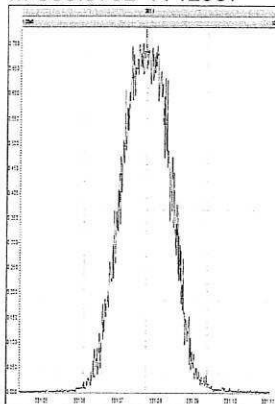
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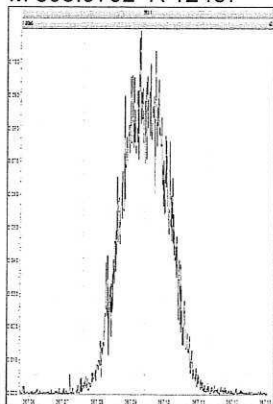
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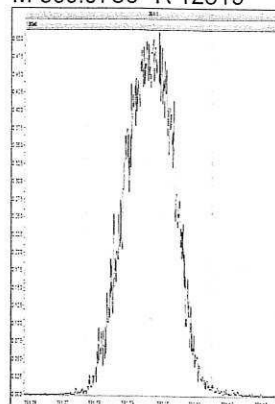
M 330.9792 R 12367



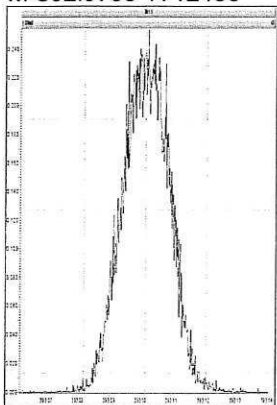
M 366.9792 R 12457



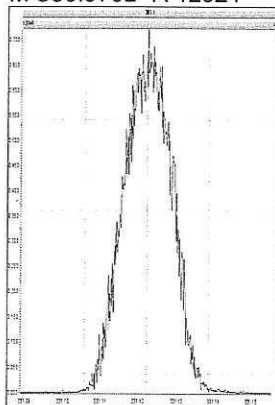
M 380.9760 R 12319



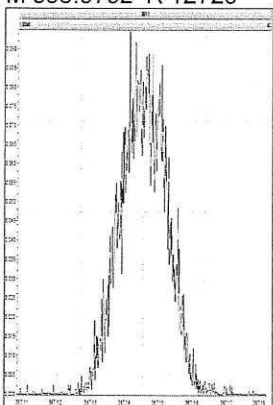
M 392.9760 R 12406



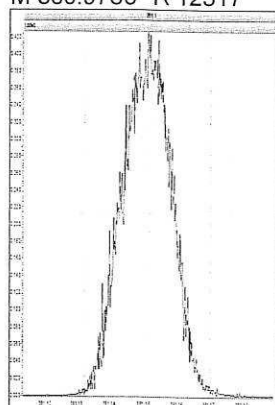
M 330.9792 R 12821



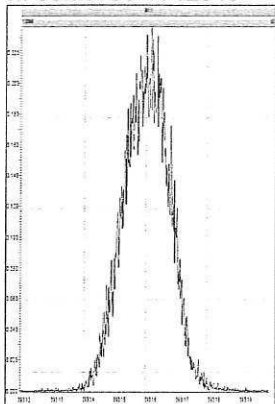
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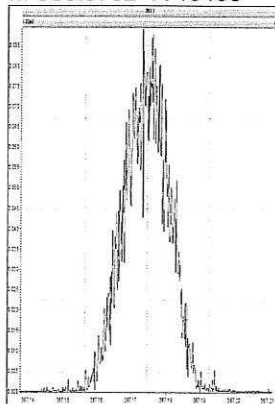
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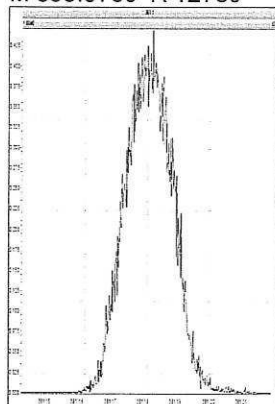
M 392.9760 R 12348



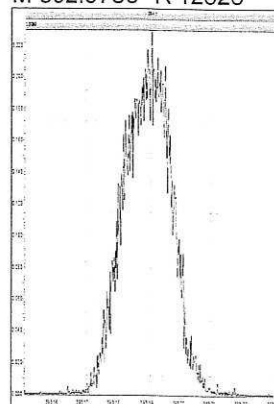
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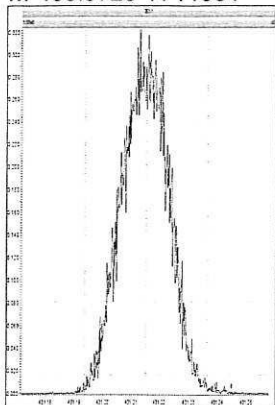
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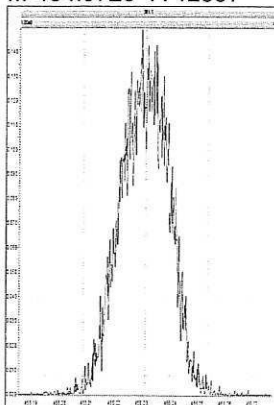
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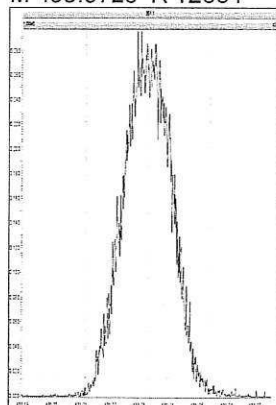
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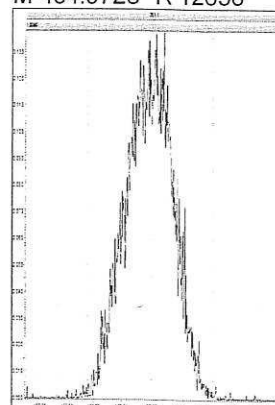
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M 430.9728 R 12664

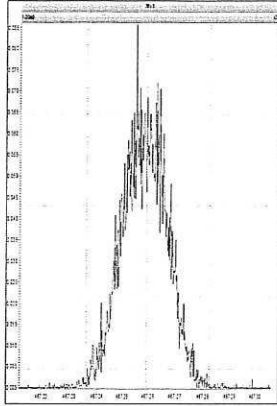


M 454.9728 R 12658

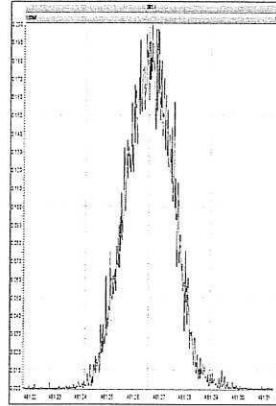


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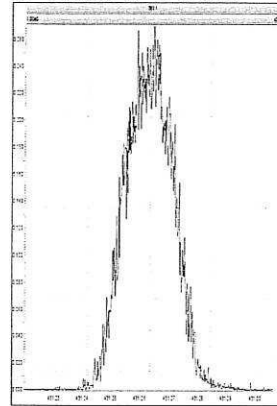
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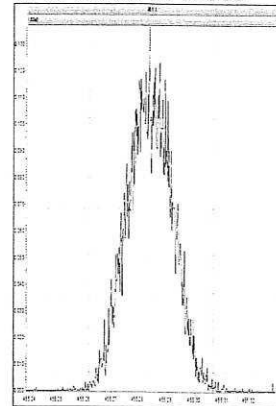
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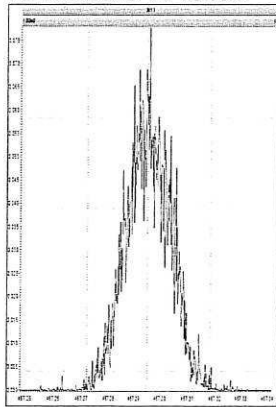
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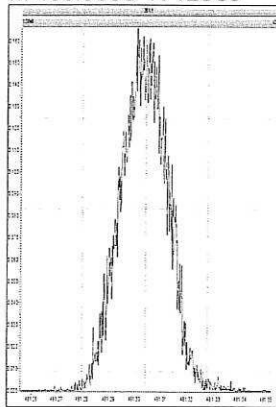
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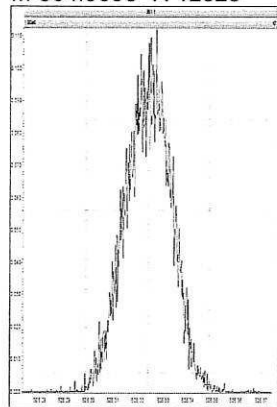
M 466.9728 R 13464



M 480.9696 R 12565

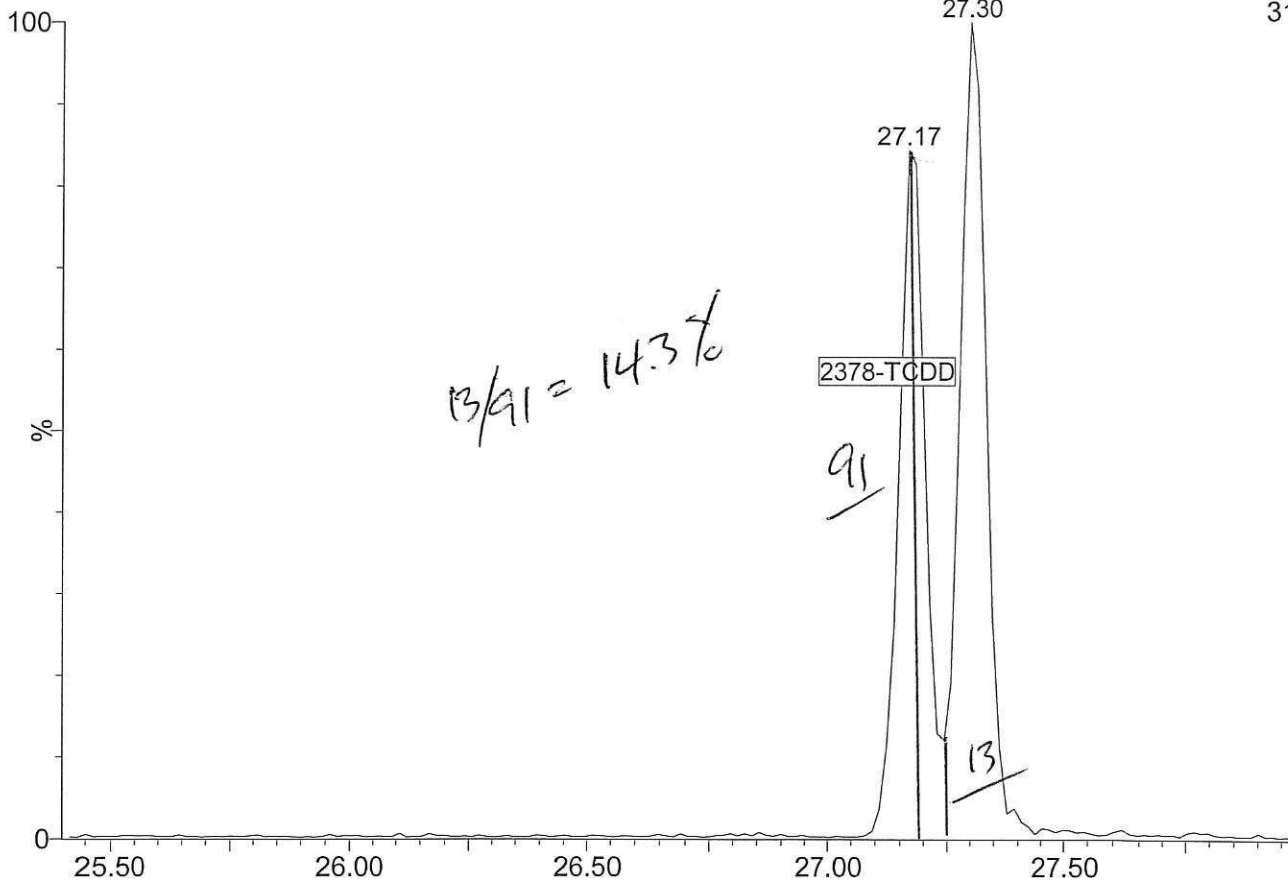


M 504.9696 R 12626



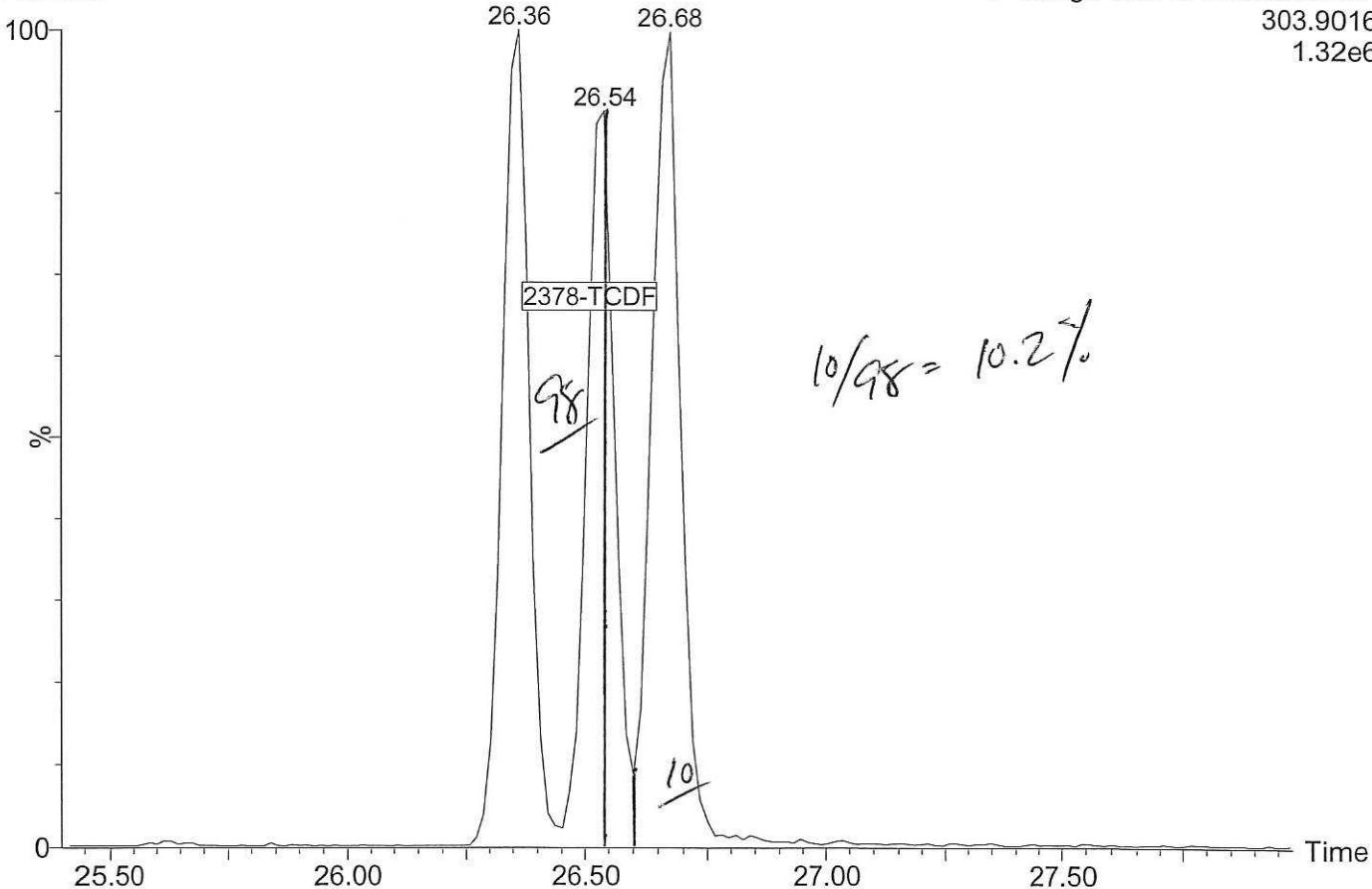
17012403

1: Voltage SIR 15 Channels EI+
319.8965
1.09e6



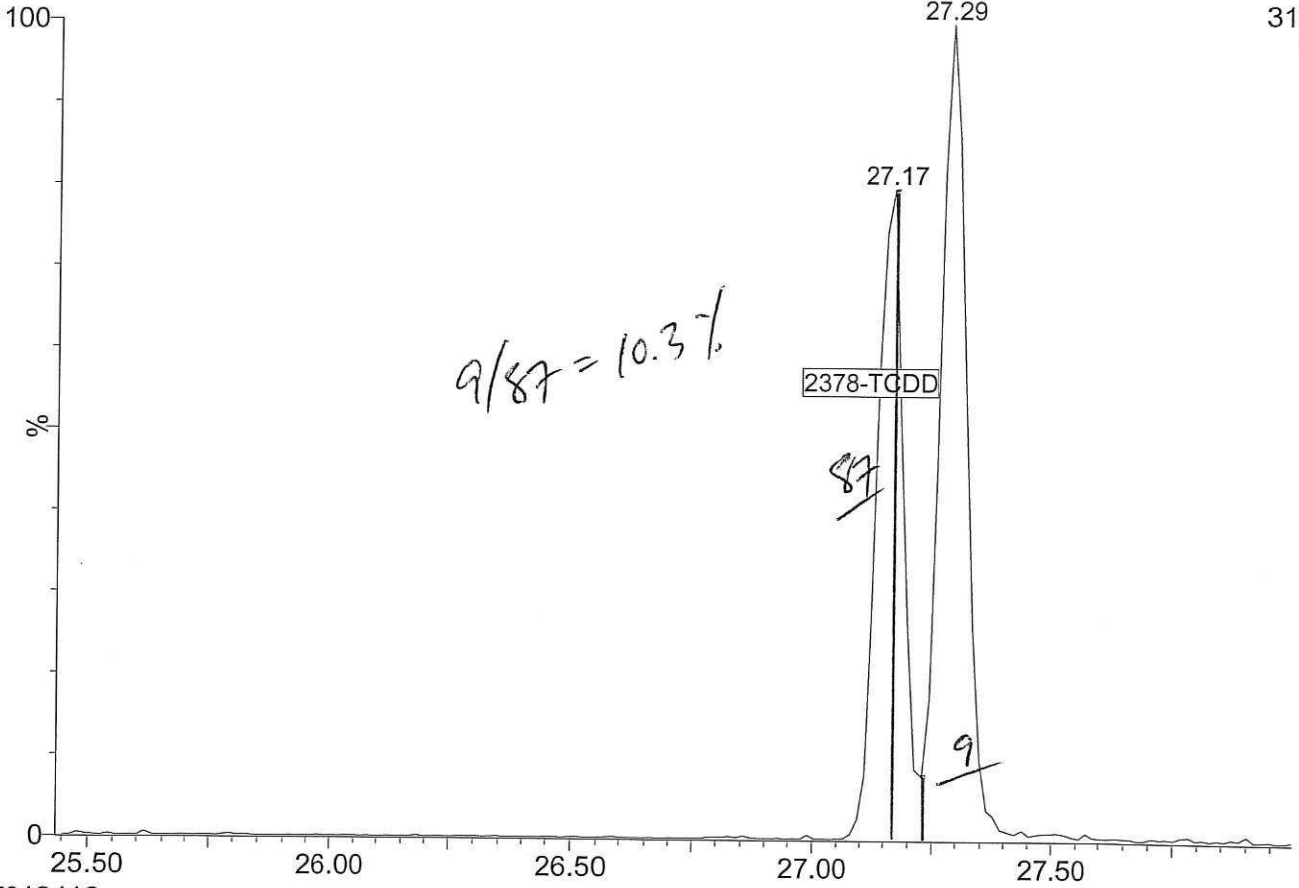
17012403

1: Voltage SIR 15 Channels EI+
303.9016
1.32e6



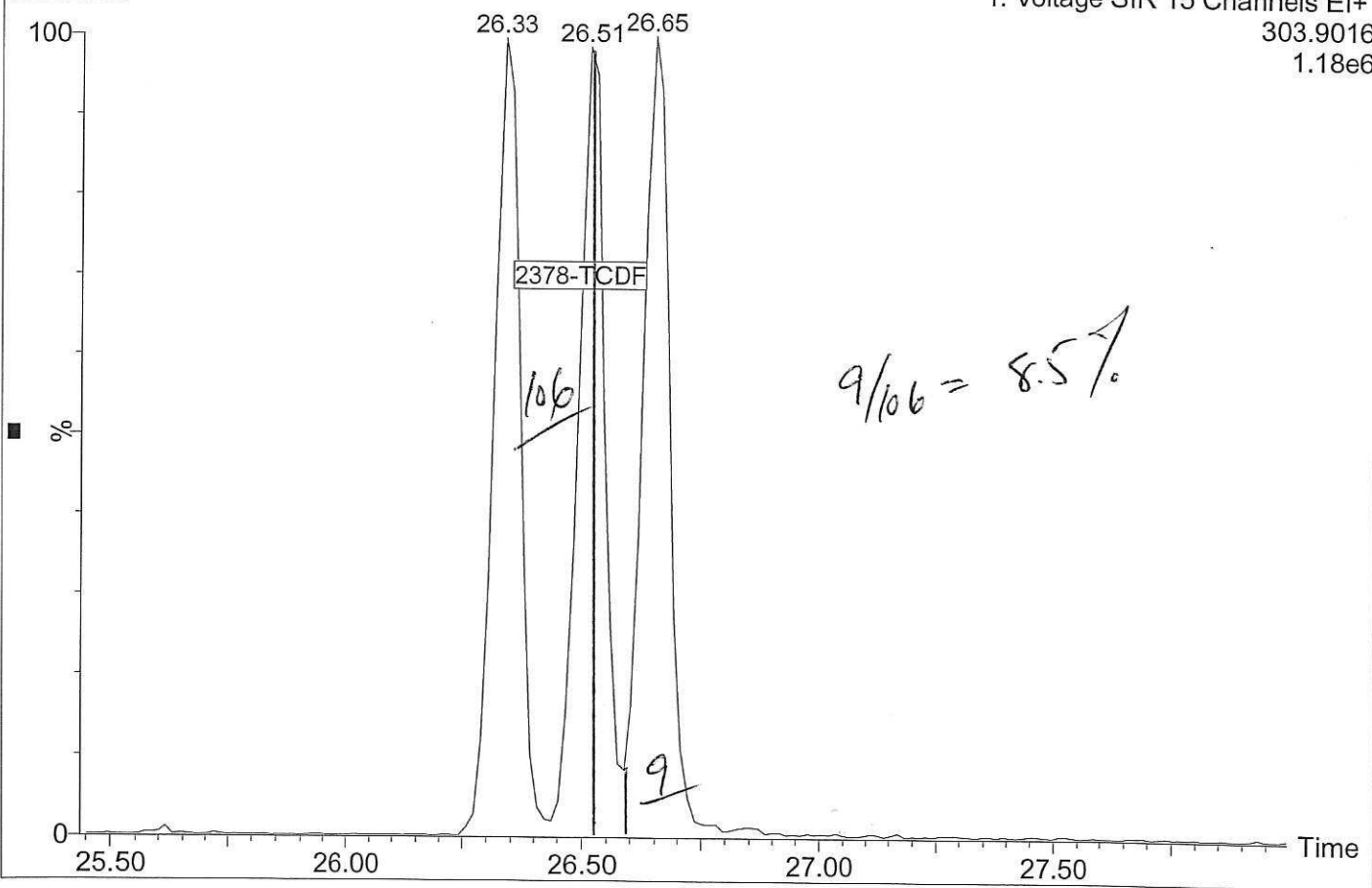
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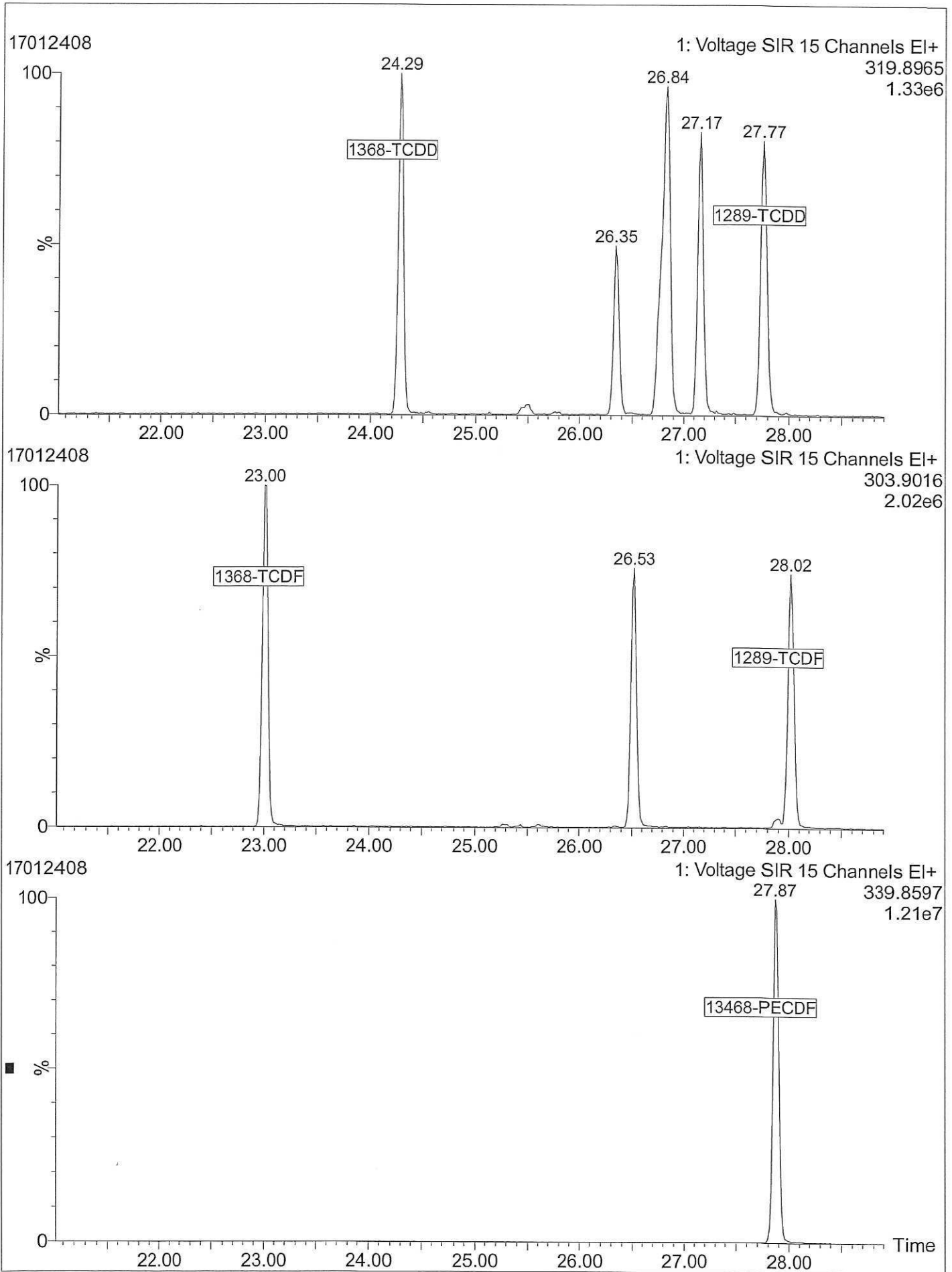
1: Voltage SIR 15 Channels EI+
319.8965
1.03e6



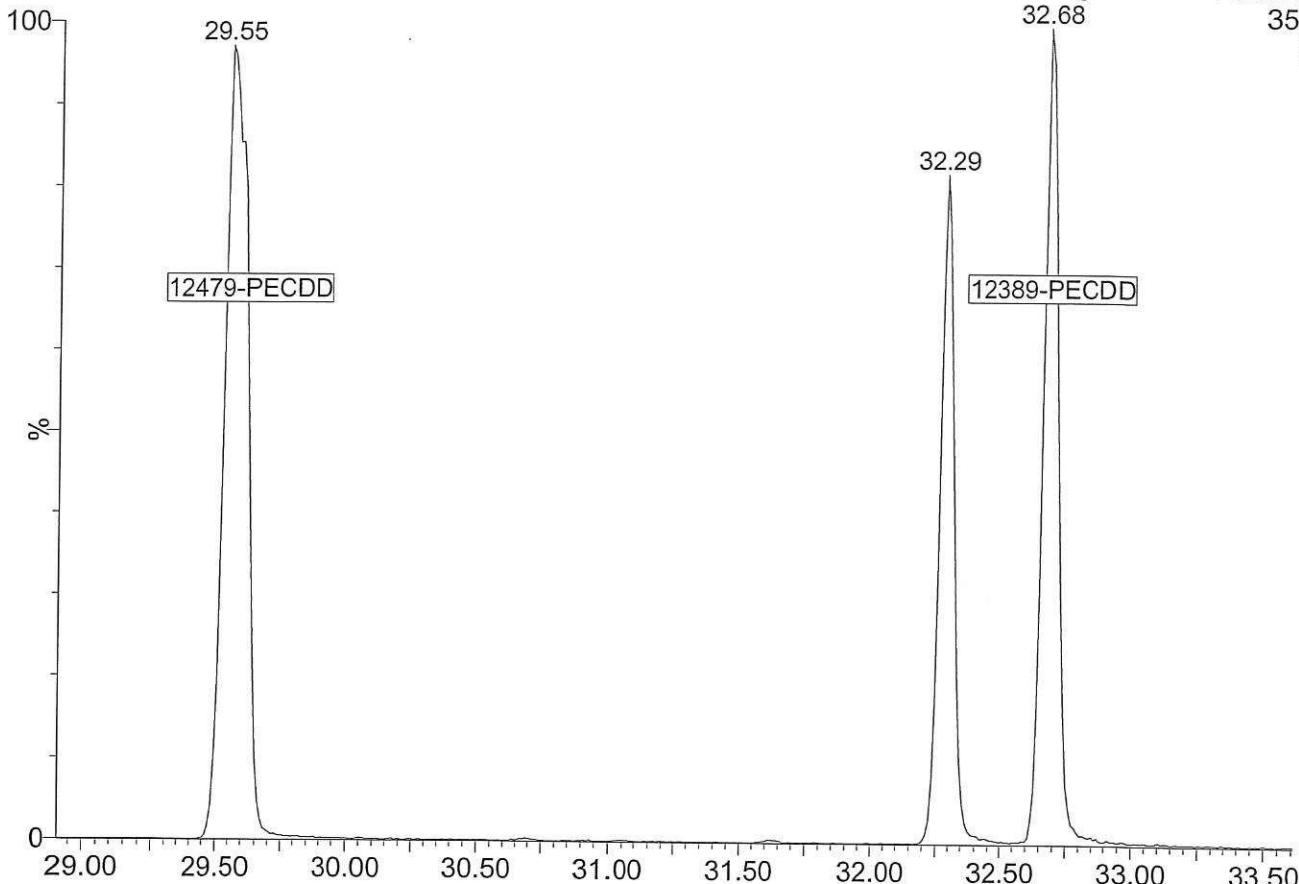
17012412

1: Voltage SIR 15 Channels EI+
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1.18e6



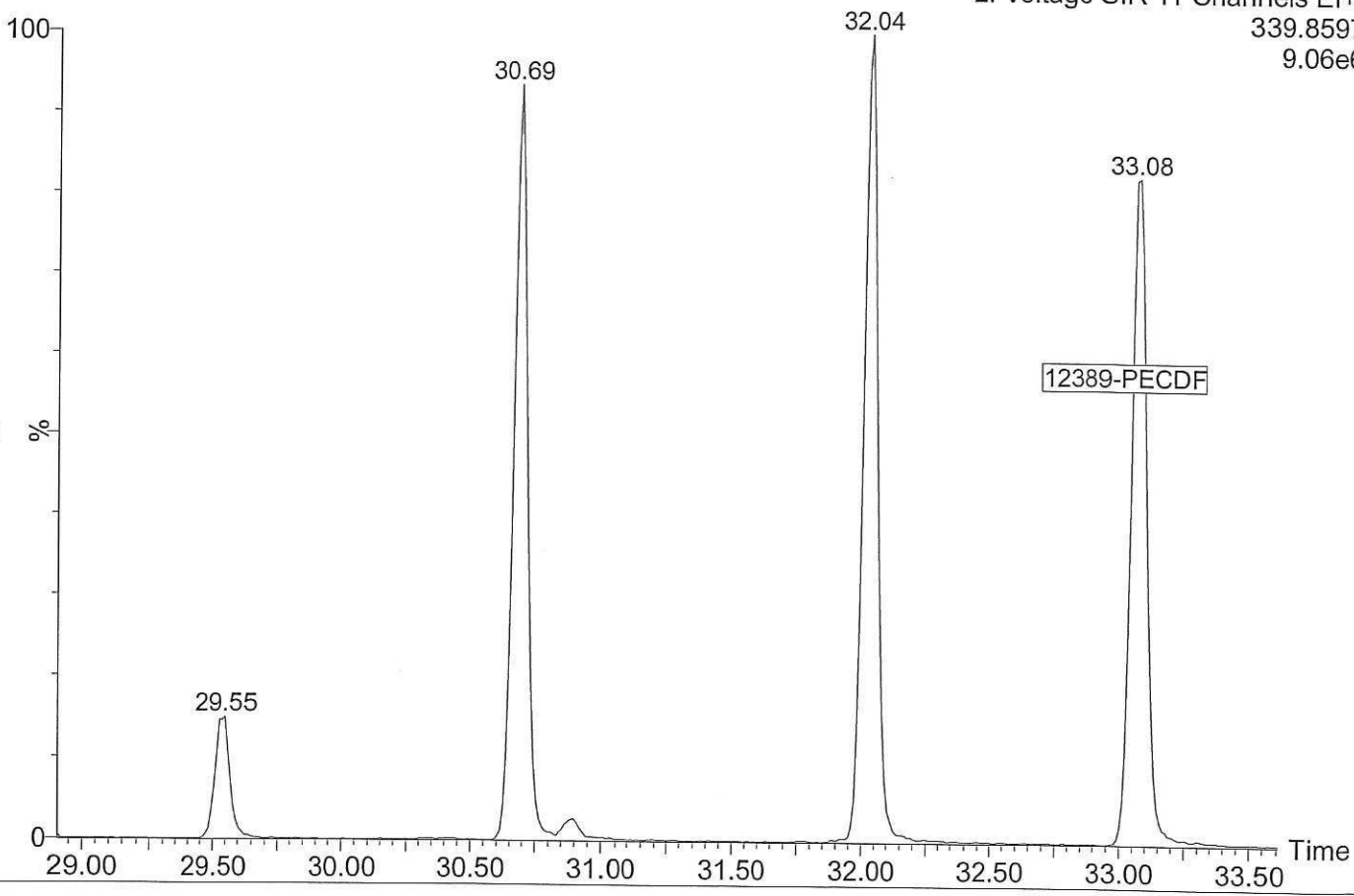


17012408



2: Voltage SIR 11 Channels EI+
355.8546
6.43e6

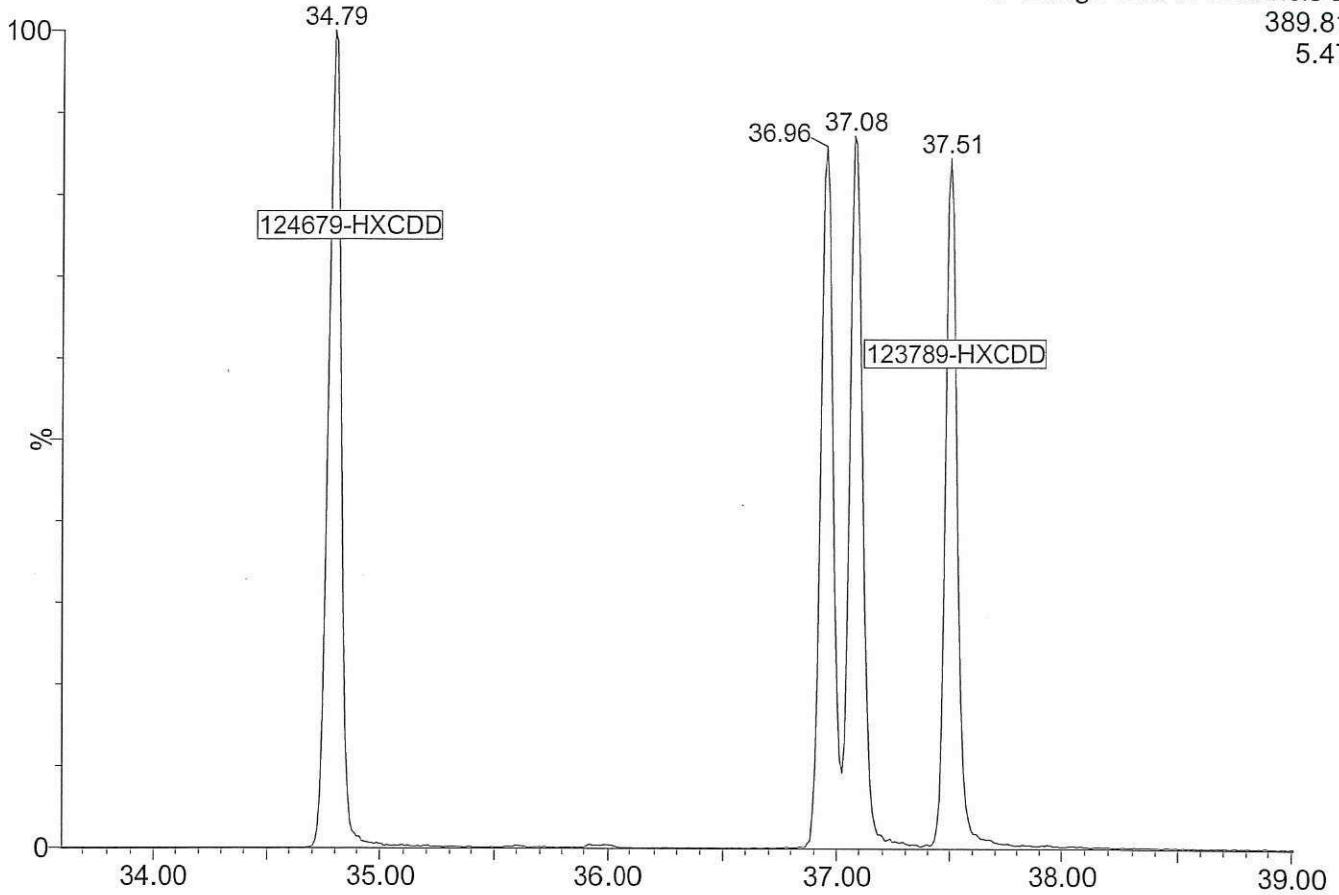
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2: Voltage SIR 11 Channels EI+
339.8597
9.06e6

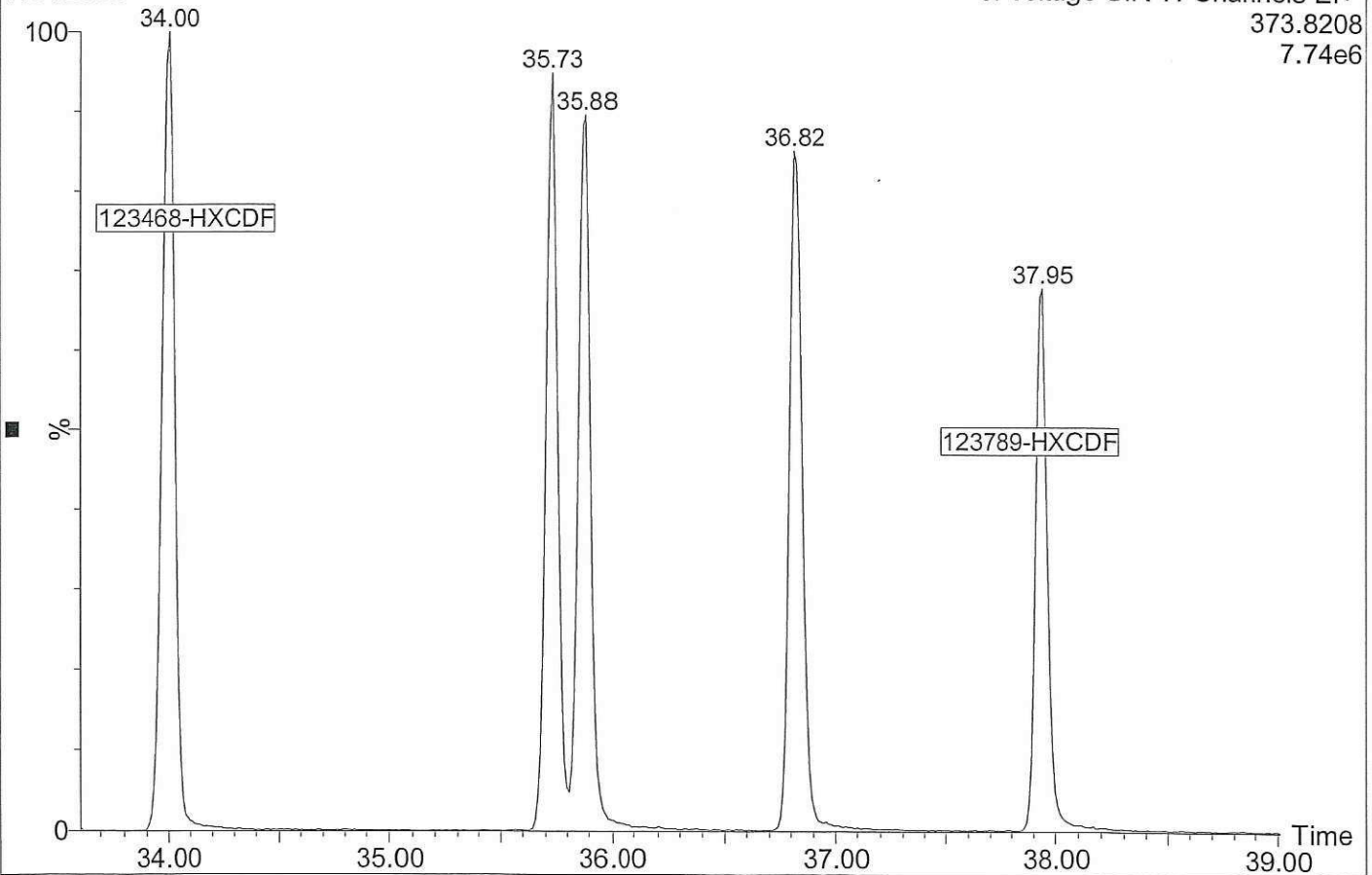
17012408

3: Voltage SIR 11 Channels EI+
389.8157
5.47e6



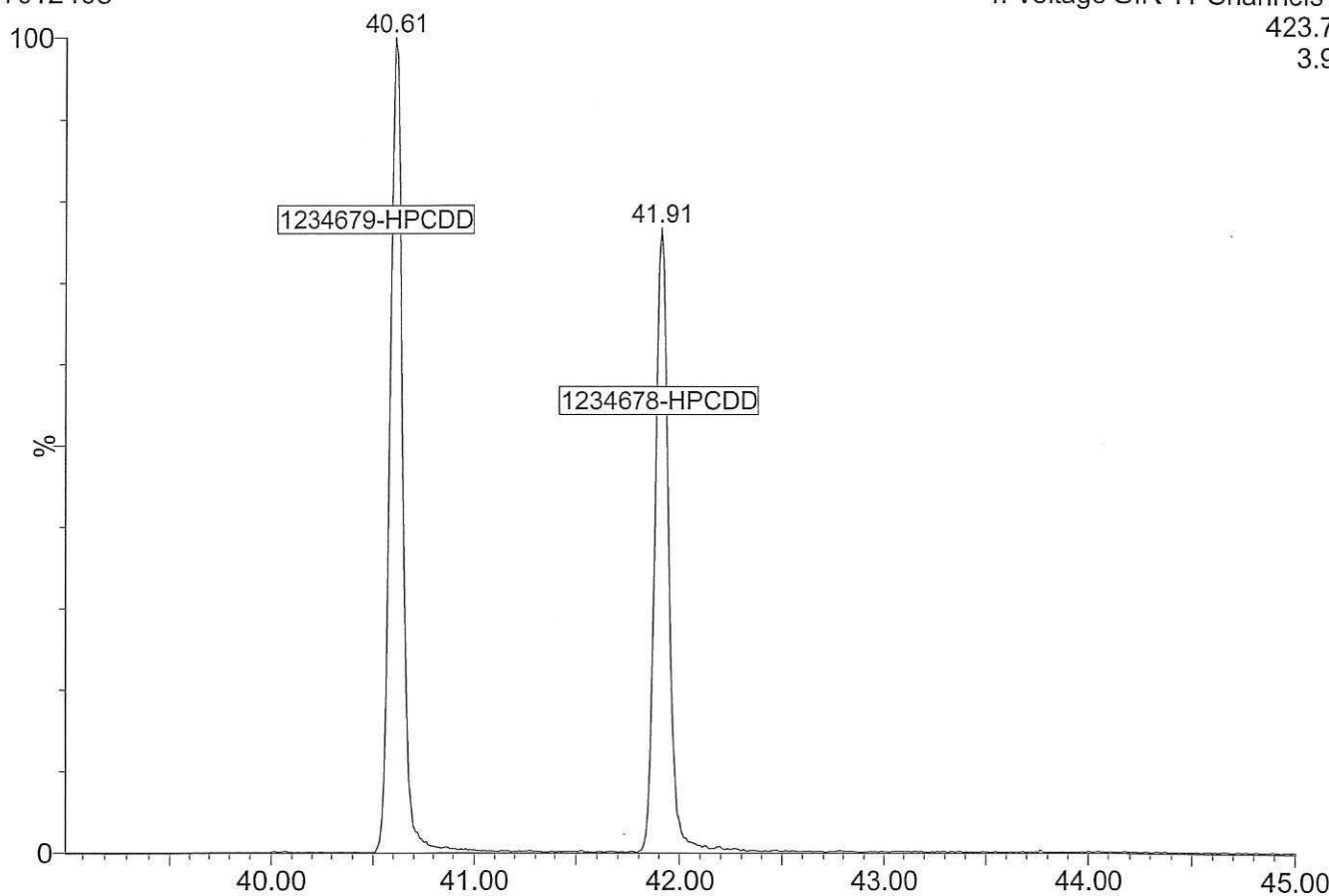
17012408

3: Voltage SIR 11 Channels EI+
373.8208
7.74e6



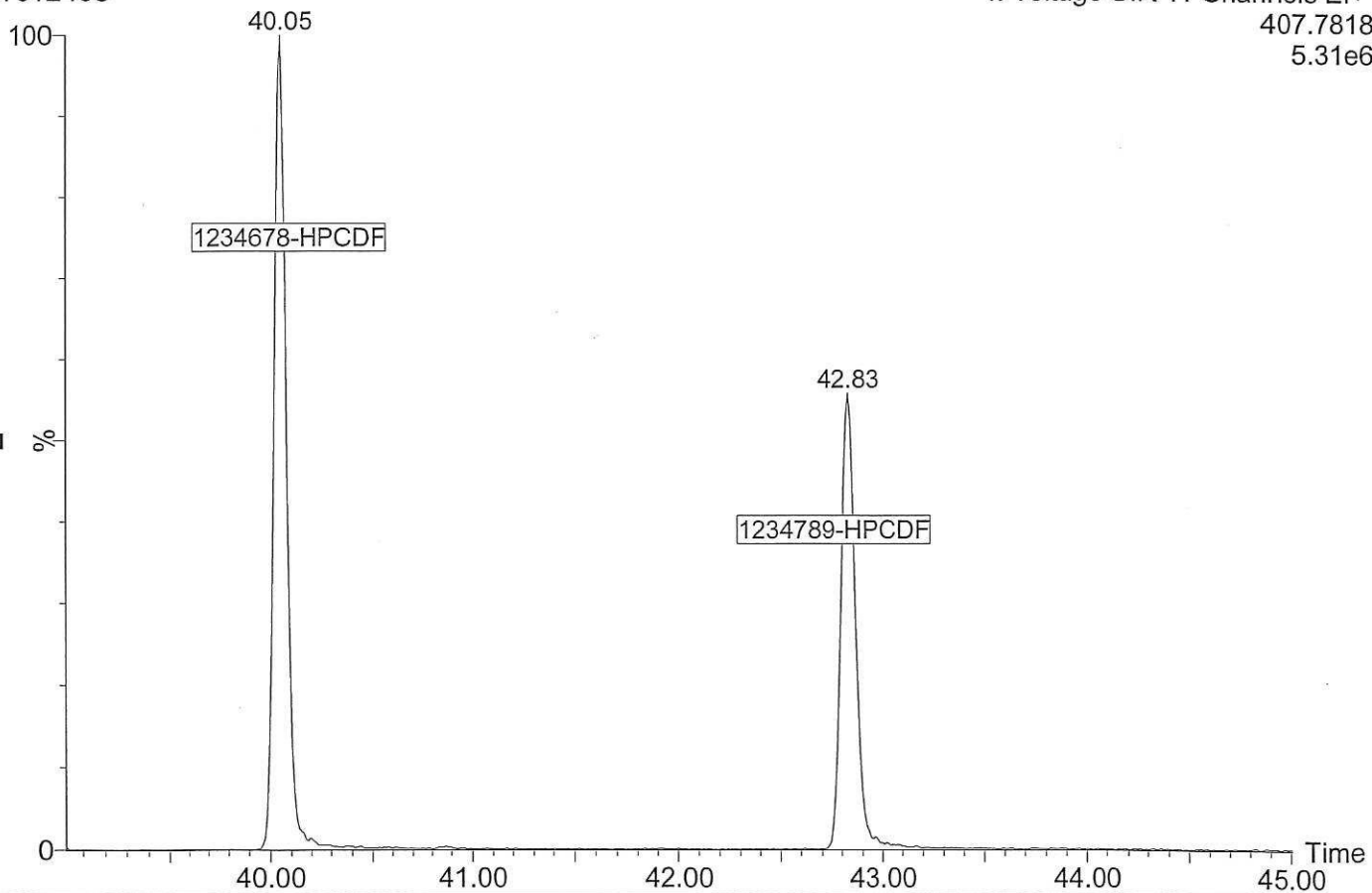
17012408

4: Voltage SIR 11 Channels EI+
423.7766
3.92e6



17012408

4: Voltage SIR 11 Channels EI+
407.7818
5.31e6



Dataset: C:\MassLynx\Dioxin.pro\170124ICAL.qld
 Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
 Printed: Wednesday, January 25, 2017 09:35:07 Pacific Standard Time

Event	Details	Sample ID
Process Quantify		
Process Integrate		
Process Extract		
Process Calibrate		
Pre modification peak	Sample:17012405, Compound:PF, RT:32.026	1
Peak modified	Sample:17012405, Compound:PF, RT:32.026	1
Peak deleted	Sample:17012405, Compound:TF, RT:26.511	1
Peak deleted	Sample:17012405, Compound:TF, RT:26.511	1
Peak deleted	Sample:17012405, Compound:TD, RT:27.169	1
Peak deleted	Sample:17012405, Compound:TD, RT:27.169	1
Peak deleted	Sample:17012405, Compound:TF, RT:26.332	1
Peak deleted	Sample:17012405, Compound:PP, RT:27.871	1
Peak deleted	Sample:17012405, Compound:HD, RT:35.862	1
Peak deleted	Sample:17012405, Compound:HD, RT:35.708	1
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\170124ICAL.qld'	
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\170124ICAL.qld'	
Dataset Created		

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170124ICAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170112.mdb 12 Jan 2017 14:01:03
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124ICAL.cdb 25 Jan 2017 09:33:34

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF					0.924		0.770	547	1588					
12378-PeCDF	30.677	1.000	6.35e3	4.42e3	0.954	1.435	1.550	698	1112	9.08e4	6.28e4	130.1	NO	0.512
23478-PeCDF	32.026	1.000	5.93e3	4.49e3	0.966	1.319	1.550	698	1112	9.03e4	7.54e4	129.4	NO	0.497
123478-HxCDF	35.730	1.001	5.49e3	4.59e3	1.141	1.194	1.240	668	836	8.61e4	6.56e4	129.0	NO	0.530
234678-HxCDF	36.815	1.000	5.03e3	4.56e3	1.181	1.103	1.240	668	836	7.86e4	6.85e4	117.8	NO	0.518
123678-HxCDF	35.873	1.000	5.71e3	4.46e3	1.089	1.279	1.240	668	836	8.51e4	6.34e4	127.5	NO	0.522
123789-HxCDF	37.944	1.001	4.00e3	3.32e3	1.110	1.206	1.240	668	836	5.89e4	5.12e4	88.3	NO	0.526
1234678-HpCDF	40.049	1.001	4.36e3	3.87e3	1.267	1.129	1.050	294	457	6.02e4	6.30e4	205.0	NO	0.486
1234789-HpCDF	42.822	1.000	2.95e3	2.87e3	1.295	1.027	1.050	294	457	4.07e4	4.14e4	138.3	NO	0.540
OCDF	48.333	1.007	3.90e3	4.37e3	1.067	0.893	0.890	1949	934	3.62e4	4.28e4	18.6	NO	1.080
2378-TCDD					1.150		0.770	933	502					
12378-PeCDD	32.278	1.000	4.42e3	2.66e3	1.017	1.657	1.550	872	326	6.50e4	4.08e4	74.5	NO	0.534
123478-HxCDD	36.947	1.000	3.53e3	3.13e3	1.017	1.126	1.240	607	675	5.72e4	4.82e4	94.2	NO	0.509
123678-HxCDD	37.090	1.001	3.82e3	2.81e3	0.964	1.356	1.240	607	675	6.07e4	4.17e4	100.0	NO	0.514
123789-HxCDD	37.506	1.012	3.60e3	3.06e3	0.948	1.176	1.240	607	675	5.28e4	4.90e4	86.9	NO	0.535
1234678-HpCDD	41.913	1.001	2.76e3	2.76e3	1.051	1.001	1.050	372	584	4.23e4	4.00e4	113.7	NO	0.533
OCDD	48.019	1.000	4.12e3	4.27e3	1.030	0.966	0.890	407	302	4.66e4	4.35e4	114.4	NO	1.137
13C-2378-TCDF	26.496	1.006	1.19e6	1.53e6	1.515	0.780	0.770	6929	3456	1.77e7	2.27e7	2555.9	NO	98.033
13C-12378-PeCDF	30.667	1.165	1.35e6	8.57e5	1.276	1.576	1.550	3664	2900	2.04e7	1.28e7	5577.0	NO	94.490
13C-23478-PeCDF	32.014	1.216	1.33e6	8.37e5	1.257	1.593	1.550	3664	2900	2.02e7	1.26e7	5513.6	NO	94.355
13C-123478-HxCDF	35.708	0.953	5.69e5	1.10e6	1.431	0.518	0.510	3267	5414	8.73e6	1.68e7	2673.4	NO	103.053
13C-123678-HxCDF	35.862	0.957	6.22e5	1.17e6	1.552	0.532	0.510	3267	5414	8.93e6	1.71e7	2732.5	NO	102.125
13C-234678-HxCDF	36.805	0.982	5.40e5	1.03e6	1.349	0.527	0.510	3267	5414	8.08e6	1.51e7	2474.2	NO	102.698
13C-123789-HpCDF	37.923	1.012	4.30e5	8.25e5	1.111	0.521	0.510	3267	5414	6.58e6	1.26e7	2013.9	NO	99.920
13C-1234678-HpCDF	40.027	1.068	4.18e5	9.17e5	1.160	0.455	0.440	2163	2691	5.96e6	1.32e7	2754.5	NO	101.903
13C-1234789-HpCDF	42.812	1.142	2.60e5	5.72e5	0.758	0.454	0.440	2163	2691	3.30e6	7.17e6	1526.0	NO	97.211
13C-1234-TCDD	26.332	0.000	8.10e5	1.02e6	1.000	0.795	0.770	3148	1863	1.21e7	1.53e7	3847.4	NO	100.000
13C-2378-TCDD	27.139	1.031	6.73e5	8.66e5	0.872	0.777	0.770	3148	1863	1.00e7	1.28e7	3180.7	NO	96.461
13C-2378-PeCDD	32.267	1.225	8.00e5	5.04e5	0.754	1.589	1.550	1428	1232	1.20e7	7.59e6	8418.3	NO	94.457
13C-123478-HxCDD	36.936	0.985	7.23e5	5.63e5	1.106	1.286	1.240	1813	3490	1.09e7	8.55e6	6038.9	NO	102.876
13C-123678-HxCDD	37.068	0.989	7.45e5	5.93e5	1.165	1.256	1.240	1813	3490	1.11e7	8.87e6	6096.2	NO	101.722
13C-1234678-HpCDD	41.891	1.118	5.03e5	4.82e5	0.872	1.043	1.050	2216	2456	6.70e6	6.28e6	3024.7	NO	99.856
13C-OCDD	48.001	1.281	6.80e5	7.54e5	0.655	0.901	0.890	2661	1702	6.45e6	7.16e6	2422.7	NO	193.654

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk

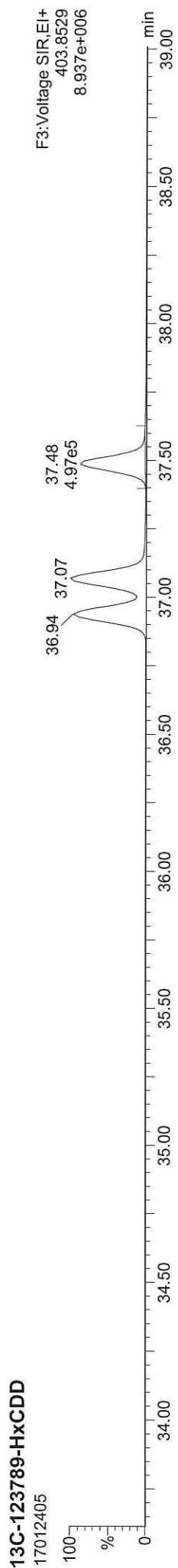
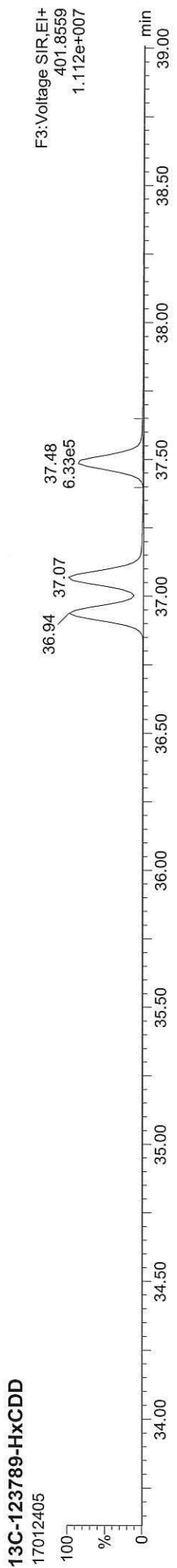
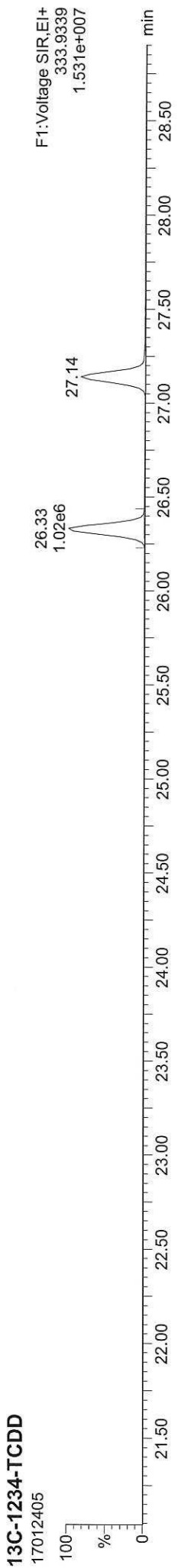
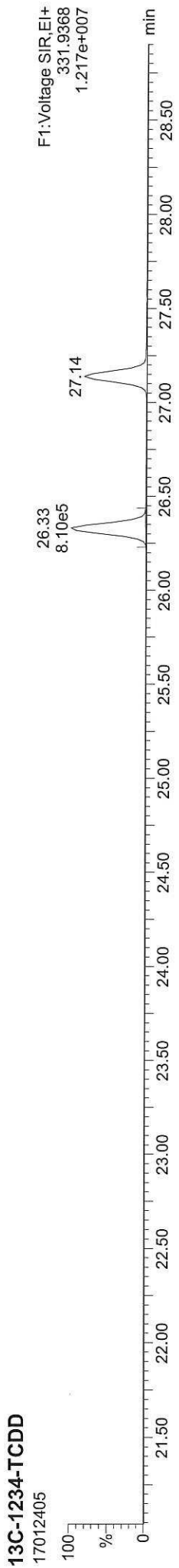
Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
13C-123789-HxCDD	37.484	0.000	6.33e5	4.97e5	1.000	1.273	1.240	1813	3490	9.65e6	7.75e6	5325.3	NO	100.000
Total-tetrafurans			0.00e0		0.924			547		0.00e0				
Total-penta1			0.00e0					967		0.00e0				
Total-pentafurans			1.27e4		0.960			698		1.86e5				1.043
Total-hexafurans			2.02e4		1.130			668		3.09e5				2.096
Total-heptafurans			7.39e3		1.281			294		1.02e5				1.038
Total-Furans			4.42e4		1.100			547		6.34e5				5.256
Total-tetradiioxins			0.00e0		1.150			933		0.00e0				
Total-pentadiioxins			4.81e3		1.017			872		7.02e4				0.578
Total-hexadiioxins			1.09e4		0.977			607		1.71e5				1.558
Total-heptadiioxins			2.84e3		1.051			372		4.41e4				0.554
Total-Dioxins			2.27e4		1.025			933		3.32e5				3.827
Total-TEQ			6.69e4					933		9.65e5				9.083
37CL-2378-TCDD	27.154	1.031	2.08e3		1.073			1479		3.12e4		21.1		0.106
FUNCTION1 PFK			8.52e5					532844		1.52e7				0.000
FUNCTION2 PFK			1.24e5					155795		4.45e6				0.000
FUNCTION3 PFK			6.05e5					439664		1.84e7				0.000
FUNCTION4 PFK			2.86e5					320390		9.69e6				
FUNCTION5 PFK			1.59e5					238886		7.11e6				
FUNCTION1 HXCDPE			0.00e0					356		0.00e0				
FUNCTION1 HPCDPE			9.42e2					646		2.04e4				0.000
FUNCTION2 HPCDPE			7.25e1					806		1.95e3				0.000
FUNCTION3 OCDPE			0.00e0					299		0.00e0				
FUNCTION4 NCDPE			0.00e0					561		0.00e0				
FUNCTION5 DCDPE			0.00e0					346		0.00e0				

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170112.mdb 12 Jan 2017 14:01:03
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124\CAL.cdb 25 Jan 2017 09:33:34

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk



Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD

17012405



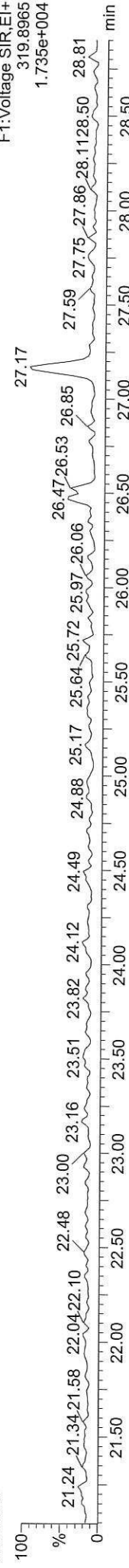
13C-2378-TCDD

17012405



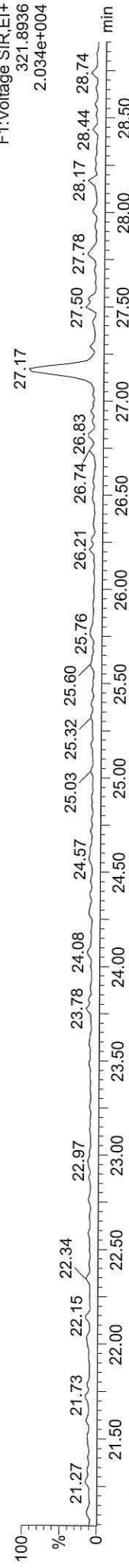
Total-tetradioxins

17012405



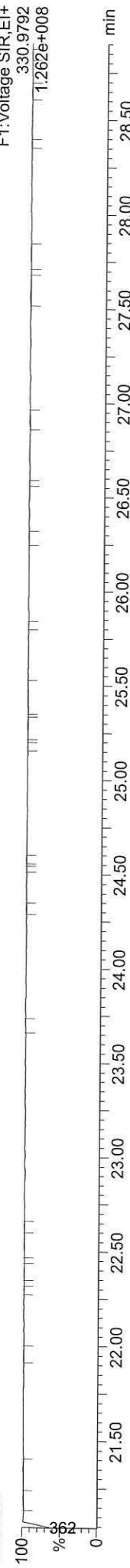
Total-tetradioxins

17012405



FUNCTION1 PFK

17012405



Dataset: C:\MassLynx\Diouxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

17012405



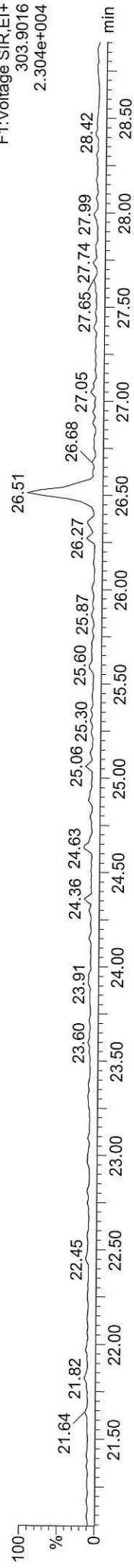
13C-2378-TCDF

17012405



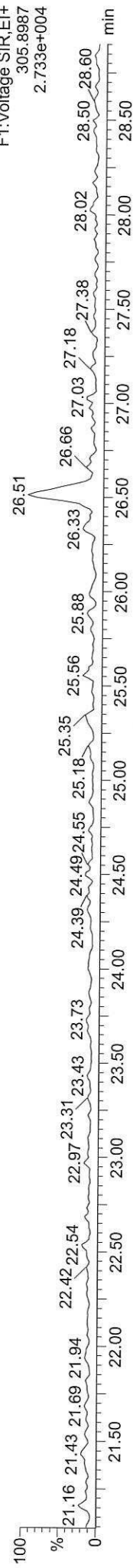
Total-tetrafurans

17012405



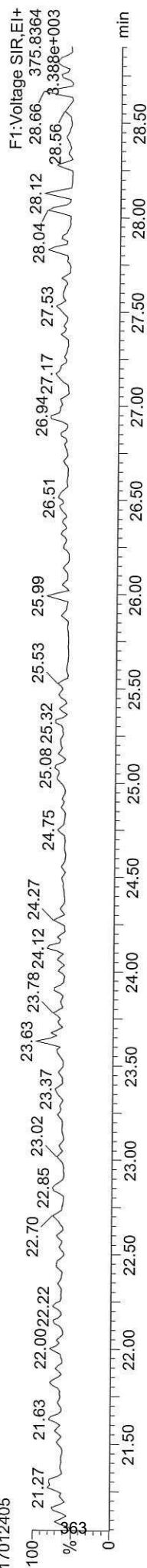
Total-tetrafurans

17012405



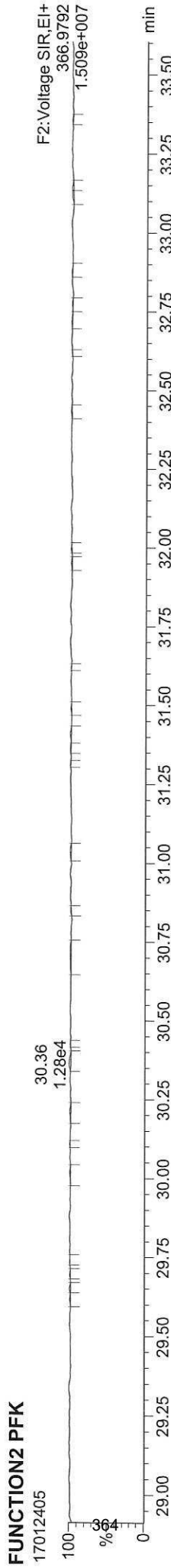
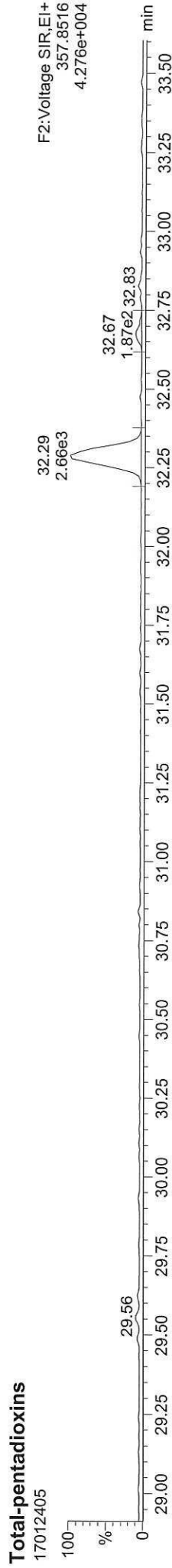
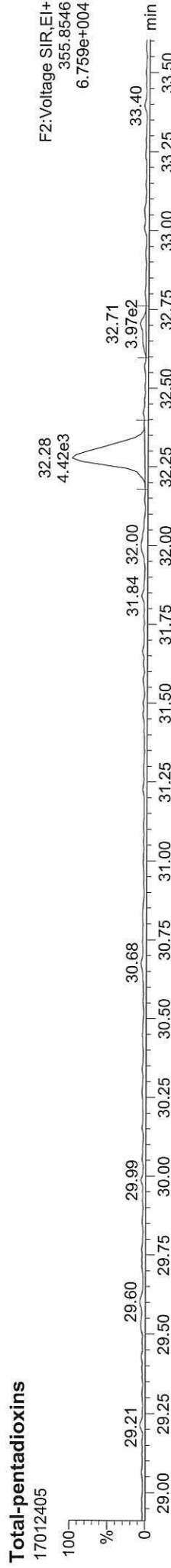
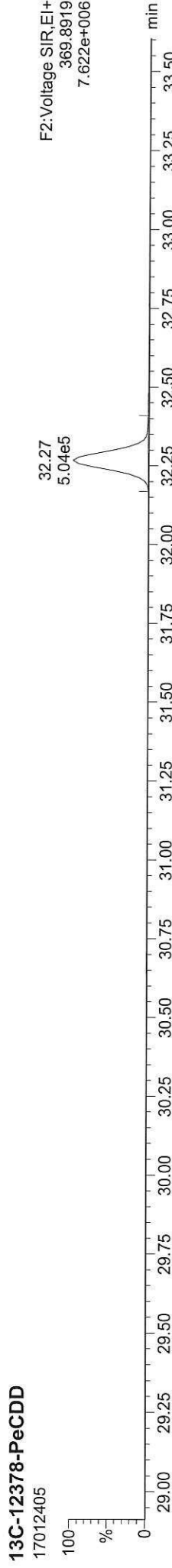
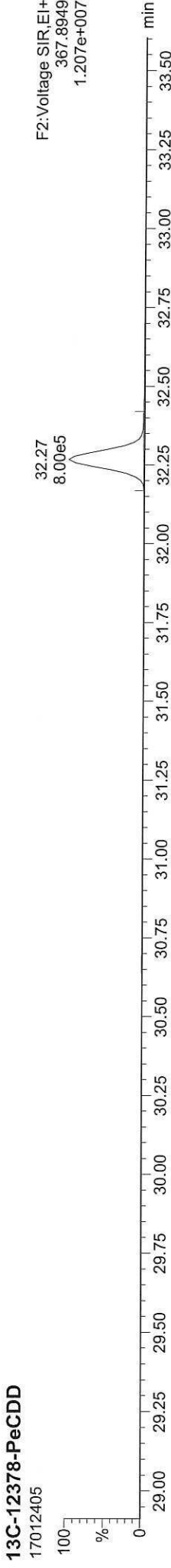
FUNCTION1 HXCDPE

17012405



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk



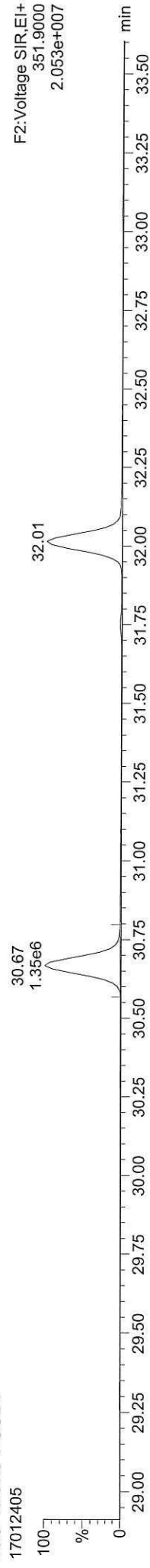
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Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

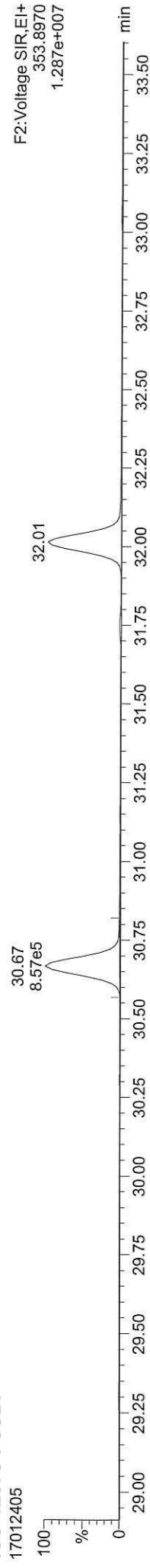
Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDF



13C-12378-PeCDF



Total-penta1



Total-penta1



FUNCTION1 HPCDPE



Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk

13C-23478-PeCDF



13C-23478-PeCDF



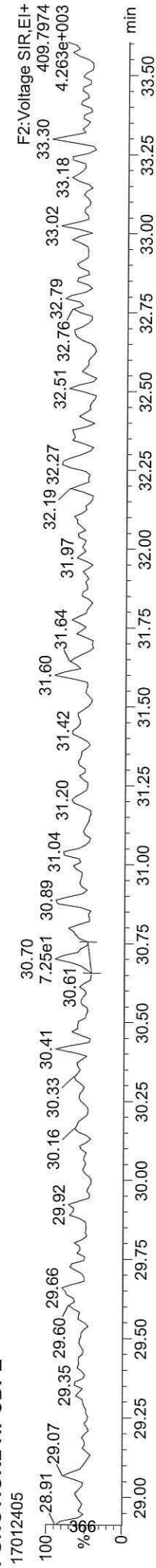
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

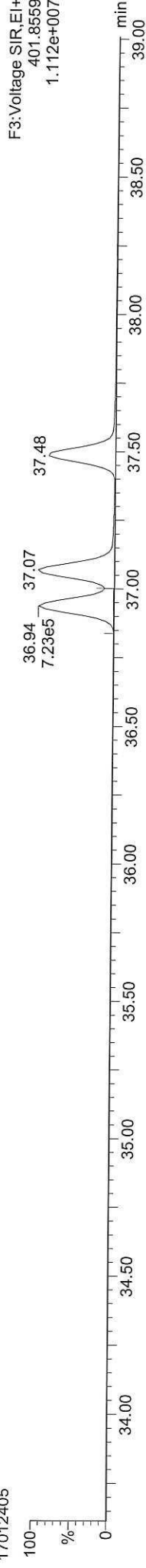
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk

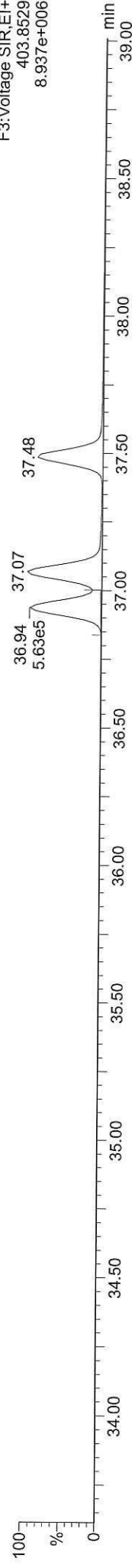
13C-123478-HxCDD

17012405



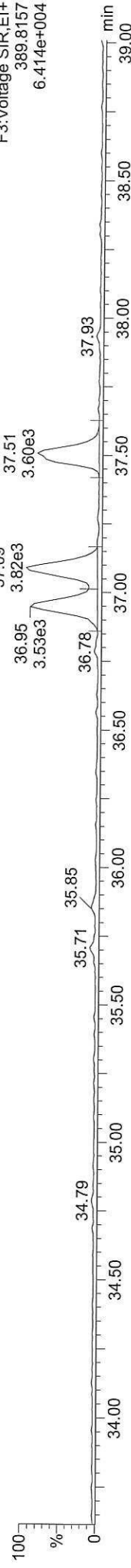
13C-123478-HxCDD

17012405



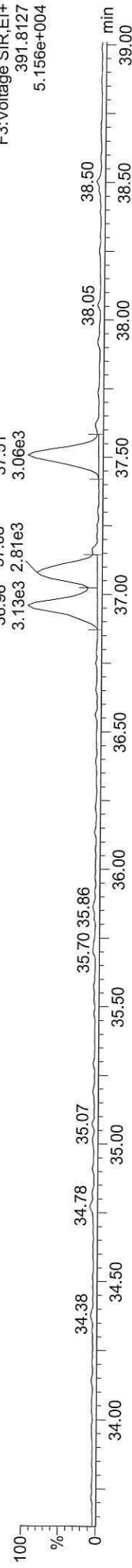
Total-hexadioxins

17012405



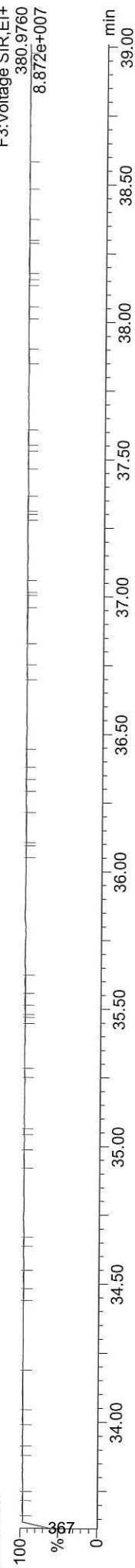
Total-hexadioxins

17012405



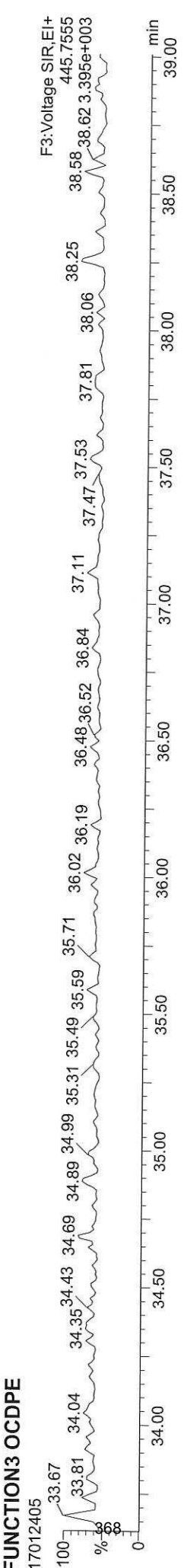
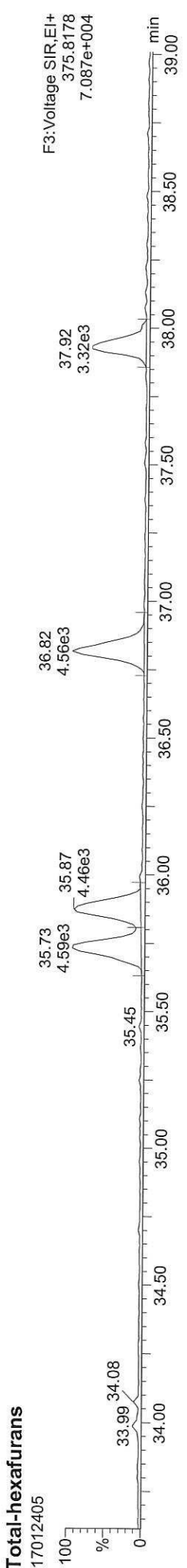
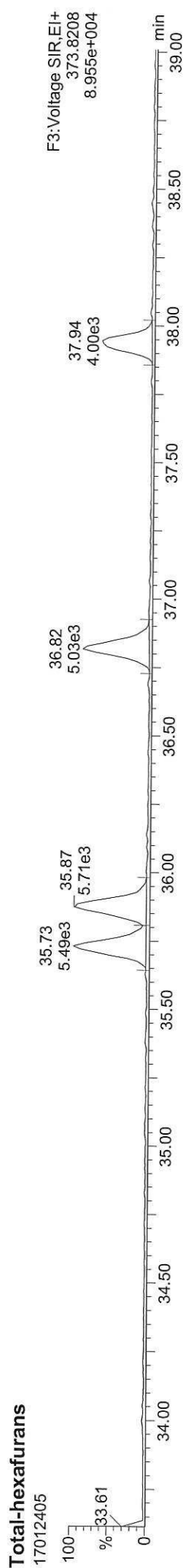
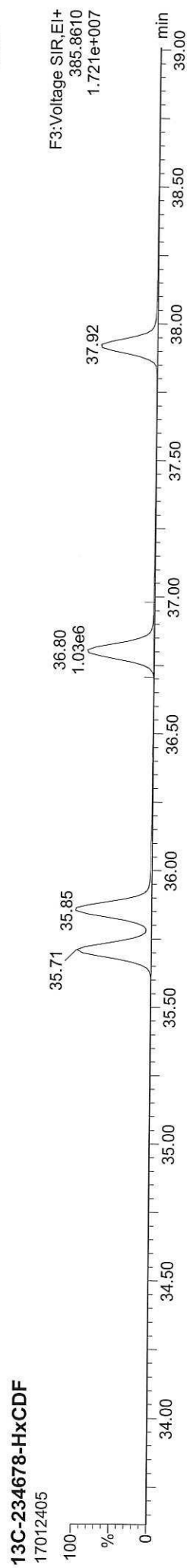
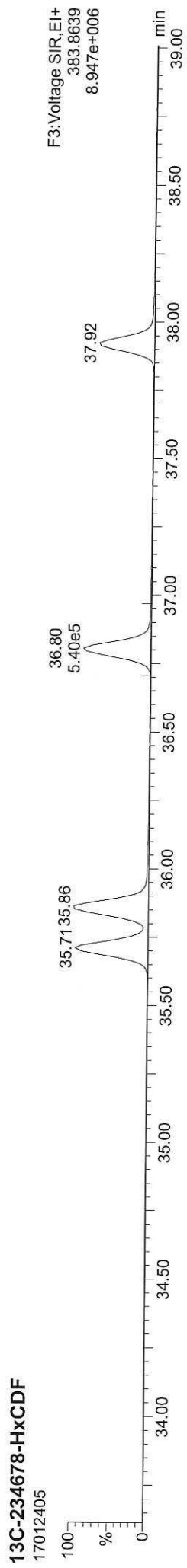
FUNCTION3 PFK

17012405



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Diocin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

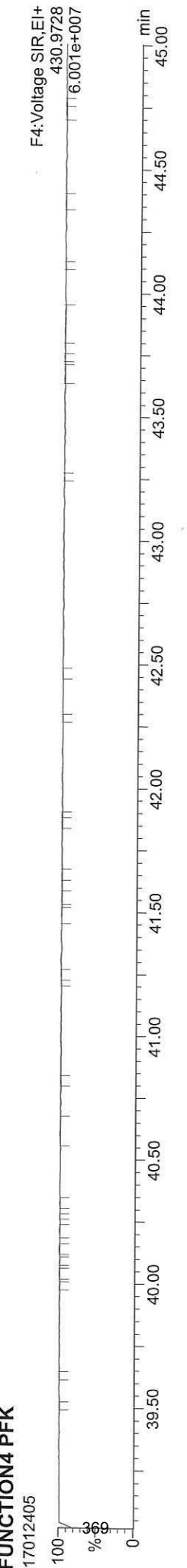
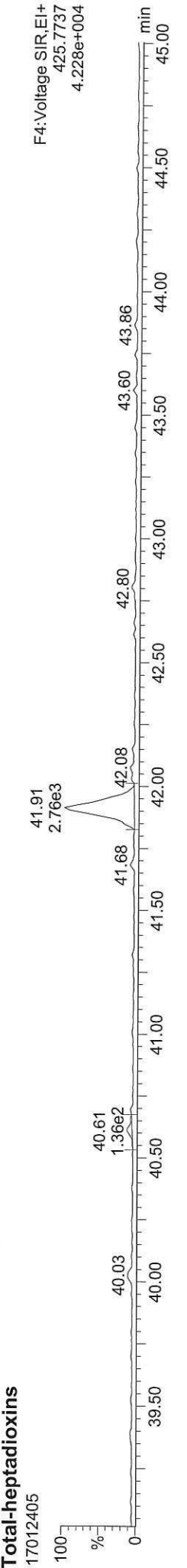
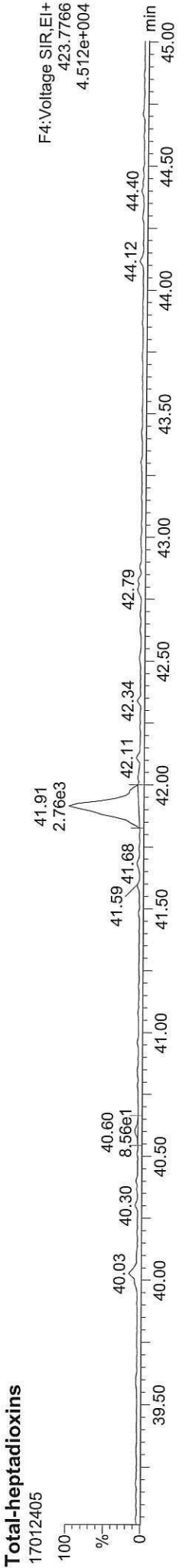
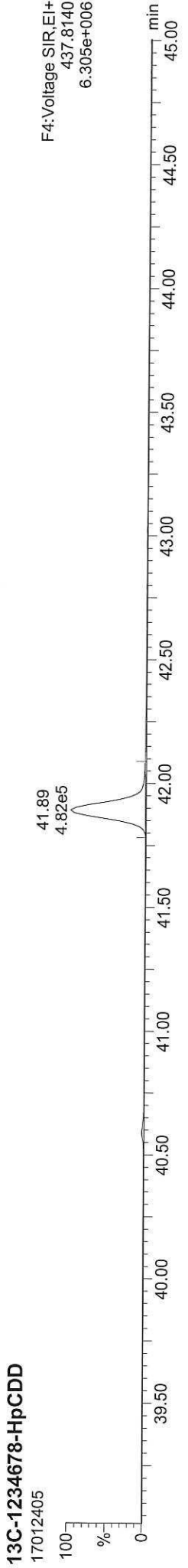
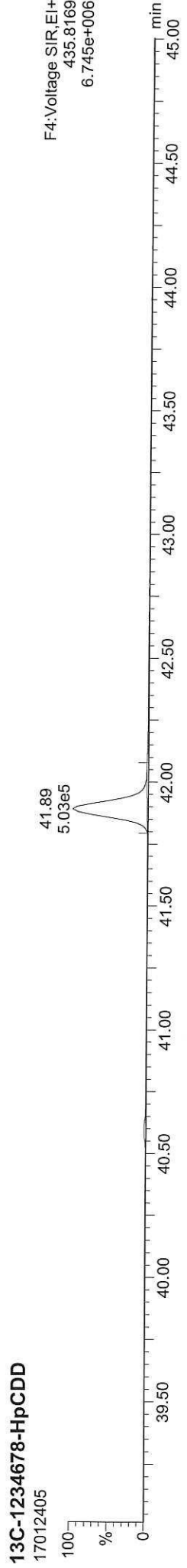
ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

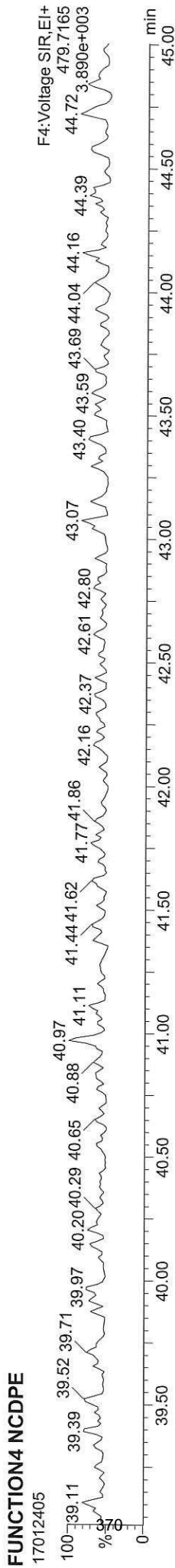
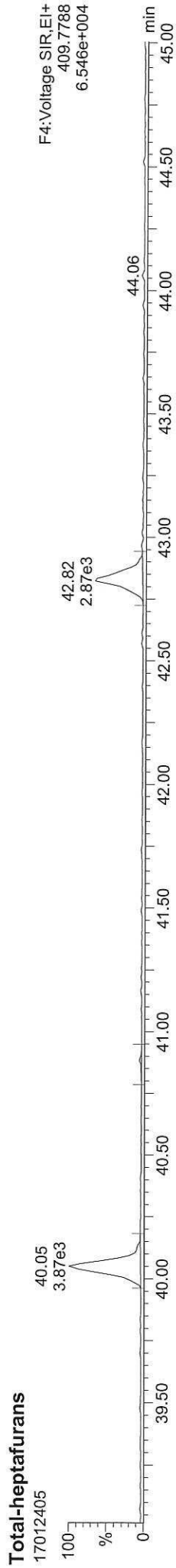
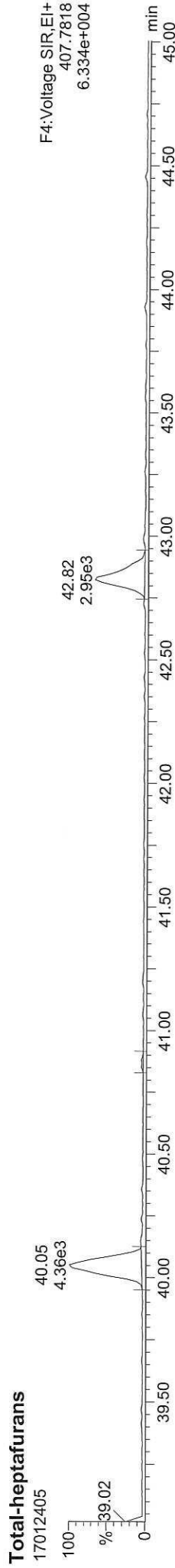
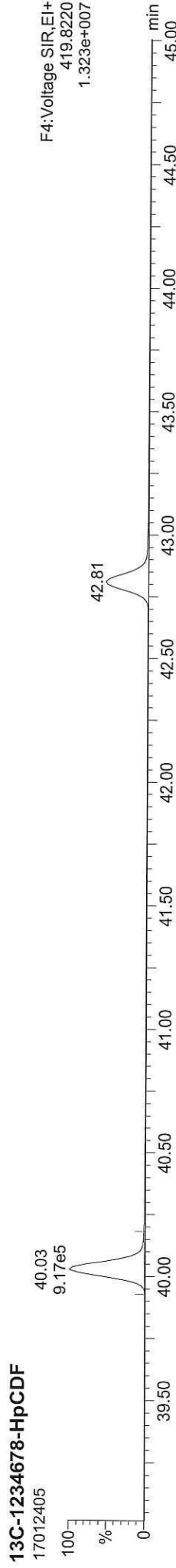
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk



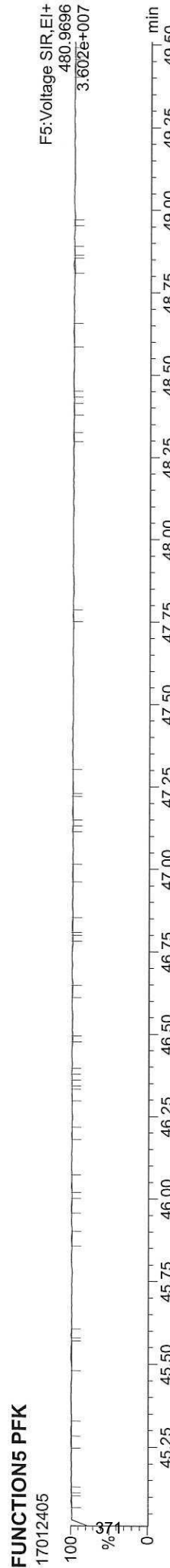
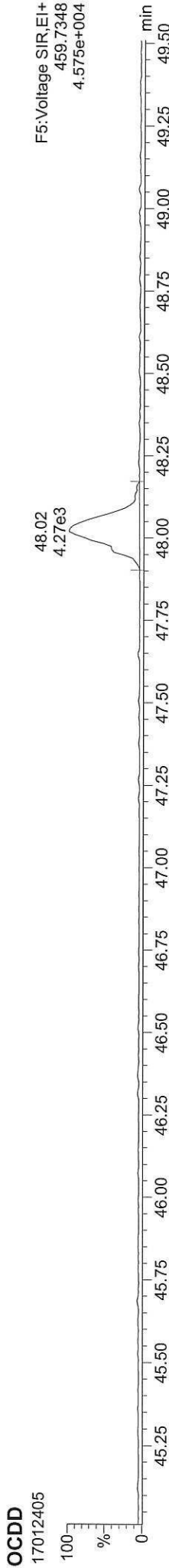
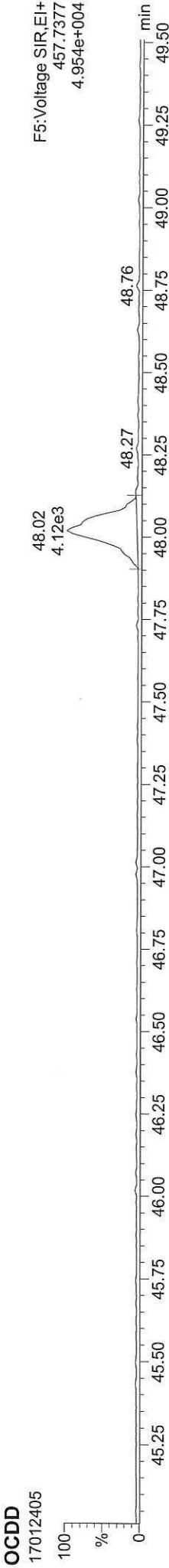
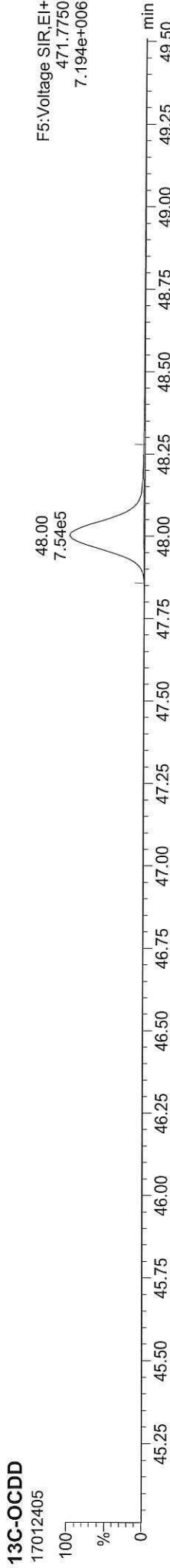
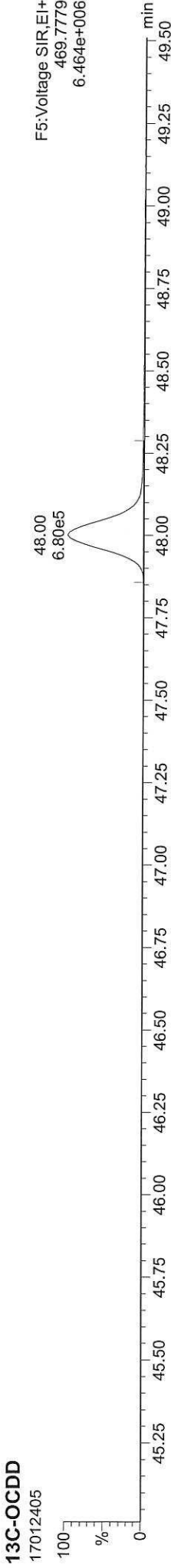
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk

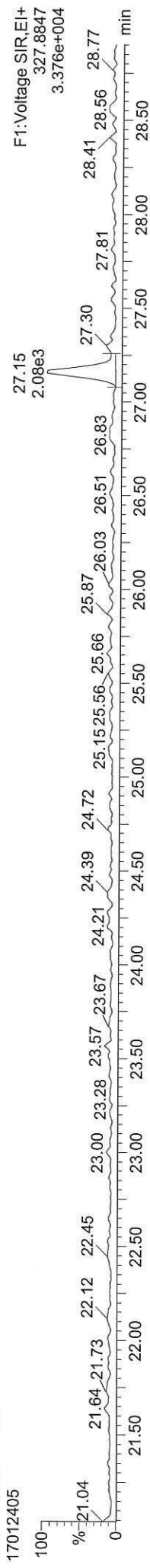


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

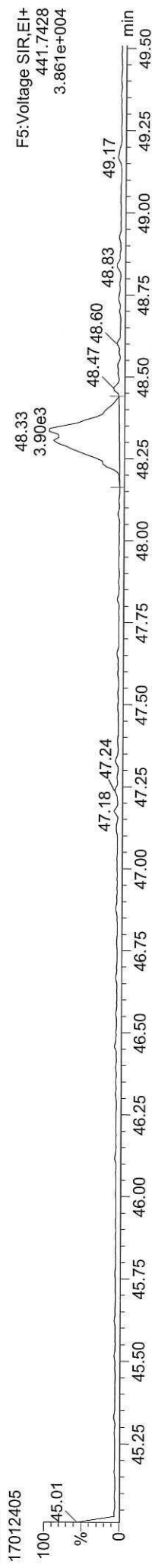
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:15 Pacific Standard Time

ID: CSL, Name: 17012405, Date: 24-Jan-2017, Time: 16:37:53, Conditions: AUTOSPEC01, User: pk

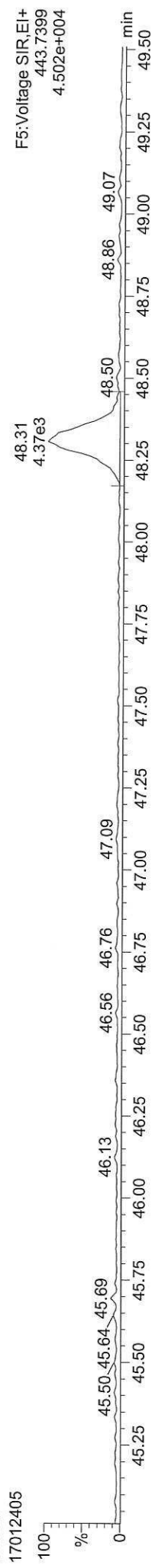
37CL-2378-TCDD



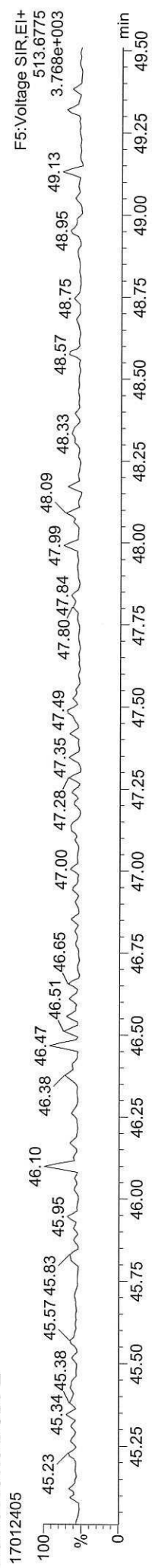
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:17 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170112.mdb 12 Jan 2017 14:01:03

Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124\CAL.cdb 25 Jan 2017 09:33:34

ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF	26.512	1.001	6.40e3	8.02e3	0.924	0.798	0.770	832	1086	8.93e4	1.10e5	107.4	NO	0.479
12378-PeCDF	30.689	1.001	3.98e4	2.43e4	0.954	1.639	1.550	1382	1282	6.10e5	3.67e5	441.4	NO	2.484
23478-PeCDF	32.026	1.000	3.86e4	2.44e4	0.966	1.584	1.550	1382	1282	5.36e5	3.75e5	387.6	NO	2.448
123478-HxCDF	35.731	1.001	3.11e4	2.63e4	1.141	1.186	1.240	1323	1374	4.60e5	3.91e5	347.5	NO	2.424
234678-HxCDF	36.827	1.001	3.05e4	2.57e4	1.181	1.187	1.240	1323	1374	4.66e5	3.92e5	352.0	NO	2.419
123678-HxCDF	35.874	1.000	3.25e4	2.73e4	1.089	1.191	1.240	1323	1374	4.72e5	3.91e5	356.9	NO	2.419
123789-HxCDF	37.934	1.000	2.36e4	2.01e4	1.110	1.171	1.240	1323	1374	3.61e5	3.08e5	273.2	NO	2.461
1234678-HpCDF	40.049	1.000	2.70e4	2.57e4	1.267	1.053	1.050	759	796	3.79e5	3.80e5	499.3	NO	2.467
1234789-HpCDF	42.834	1.001	1.71e4	1.71e4	1.295	1.001	1.050	759	796	2.03e5	2.15e5	268.2	NO	2.442
OCDF	48.315	1.006	2.17e4	2.41e4	1.067	0.899	0.890	584	823	1.97e5	2.16e5	337.3	NO	4.675
2378-TCDD	27.154	1.001	4.77e3	6.02e3	1.150	0.793	0.770	1098	542	6.19e4	8.89e4	56.4	NO	0.496
12378-PeCDD	32.289	1.001	2.41e4	1.58e4	1.017	1.521	1.550	900	873	3.81e5	2.37e5	423.1	NO	2.430
123478-HxCDD	36.958	1.001	2.17e4	1.84e4	1.017	1.181	1.240	1310	771	3.37e5	2.66e5	256.9	NO	2.450
123678-HxCDD	37.079	1.000	2.19e4	1.76e4	0.964	1.242	1.240	1310	771	3.21e5	2.59e5	245.2	NO	2.394
123789-HxCDD	37.507	1.012	2.14e4	1.65e4	0.948	1.296	1.240	1310	771	3.38e5	2.47e5	257.7	NO	2.412
1234678-HpCDD	41.924	1.001	1.72e4	1.51e4	1.051	1.141	1.050	906	491	2.05e5	1.94e5	226.0	NO	2.432
OCDD	48.037	1.001	2.09e4	2.41e4	1.030	0.866	0.890	735	824	1.95e5	2.42e5	265.2	NO	4.760
13C-2378-TCDF	26.497	1.006	1.43e6	1.82e6	1.515	0.785	0.770	6348	3219	2.09e7	2.68e7	3295.7	NO	101.359
13C-12378-PeCDF	30.667	1.165	1.65e6	1.05e6	1.276	1.577	1.550	3452	3521	2.47e7	1.56e7	7155.9	NO	100.012
13C-23478-PeCDF	32.015	1.216	1.63e6	1.03e6	1.257	1.574	1.550	3452	3521	2.42e7	1.55e7	7024.2	NO	99.977
13C-123478-HxCDF	35.709	0.952	7.13e5	1.36e6	1.431	0.524	0.510	3558	4444	1.06e7	2.04e7	2993.0	NO	100.501
13C-123678-HxCDF	35.862	0.956	7.81e5	1.49e6	1.552	0.524	0.510	3558	4444	1.11e7	2.11e7	3123.4	NO	101.467
13C-234678-HxCDF	36.805	0.982	6.76e5	1.29e6	1.349	0.525	0.510	3558	4444	1.01e7	1.91e7	2852.5	NO	100.883
13C-123789-HxCDF	37.923	1.011	5.46e5	1.05e6	1.111	0.519	0.510	3558	4444	8.46e6	1.62e7	2376.6	NO	99.766
13C-1234678-HpCDF	40.039	1.068	5.23e5	1.16e6	1.160	0.450	0.440	1949	2703	7.43e6	1.65e7	3814.1	NO	100.698
13C-1234789-HpCDF	42.812	1.142	3.37e5	7.44e5	0.758	0.454	0.440	1949	2703	4.10e6	9.01e6	2106.0	NO	98.912
13C-1234-TCDD	26.332	0.000	9.38e5	1.18e6	1.000	0.794	0.770	2953	1900	1.39e7	1.74e7	4718.1	NO	100.000
13C-2378-TCDD	27.139	1.031	8.28e5	1.06e6	0.872	0.778	0.770	2953	1900	1.21e7	1.55e7	4097.6	NO	102.353
13C-123478-PeCDD	32.267	1.225	9.84e5	6.29e5	0.754	1.565	1.550	1849	775	1.48e7	9.52e6	7979.8	NO	100.922
13C-123478-HxCDD	36.937	0.985	9.03e5	7.08e5	1.106	1.275	1.240	2011	2782	1.38e7	1.07e7	6841.4	NO	100.929
13C-123678-HxCDD	37.068	0.989	9.64e5	7.48e5	1.165	1.289	1.240	2011	2782	1.39e7	1.10e7	6933.7	NO	101.840
13C-1234678-HpCDD	41.891	1.117	6.44e5	6.17e5	0.872	1.044	1.050	2472	2149	8.38e6	8.09e6	3387.8	NO	100.232
13C-OCDD	48.010	1.280	8.61e5	9.77e5	0.655	0.881	0.890	1853	2303	8.26e6	9.38e6	4456.5	NO	194.303

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:17 Pacific Standard Time

ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

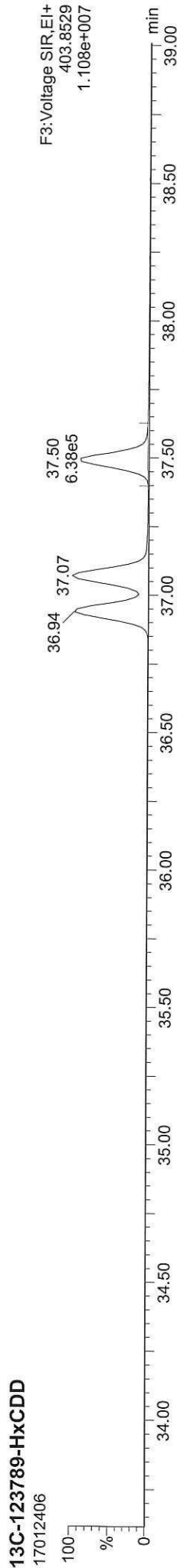
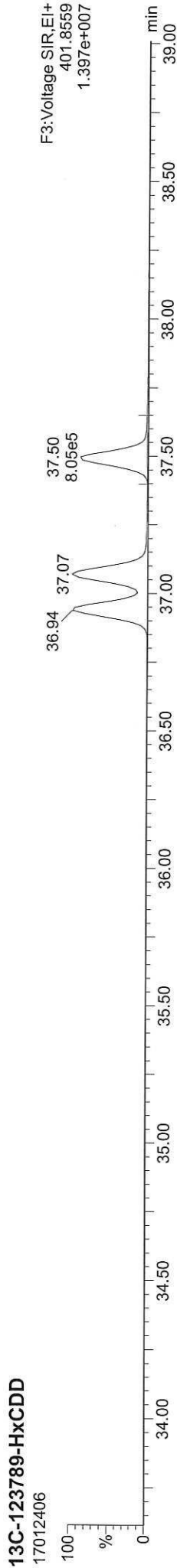
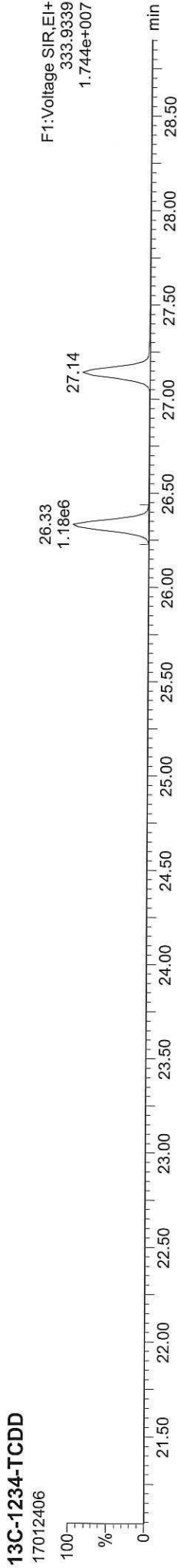
Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
13C-123789-HxCDD	37.495	0.000	8.05e5	6.38e5	1.000	1.260	1.240	2011	2782	1.24e7	9.83e6	6173.5	NO	100.000
Total-tetrafurans			6.40e3		0.924			832		8.93e4				0.479
Total-penta1			0.00e0					457		0.00e0				
Total-pentafurans			7.89e4		0.960			1382		1.15e6				4.968
Total-hexafurans			1.18e5		1.130			1323		1.77e6				9.749
Total-heptafurans			4.41e4		1.281			759		5.82e5				4.909
Total-Furans			2.69e5		1.100			832		3.79e6				24.780
Total-tetradioxins			4.77e3		1.150			1098		6.19e4				0.496
Total-pentadioxins			2.45e4		1.017			900		3.90e5				2.470
Total-hexadioxins			6.52e4		0.977			1310		9.99e5				7.274
Total-heptadioxins			1.79e4		1.051			906		2.19e5				2.522
Total-Dioxins			1.33e5		1.025			1098		1.86e6				17.522
Total-TEQ			4.02e5					1098		5.65e6				42.302
37CL-2378-TCDD	27.154	1.031	1.14e4		1.073			1507		1.59e5		105.4		0.503
FUNCTION1 PFK			5.60e5					596329		1.21e7				
FUNCTION2 PFK			1.70e5					146242		4.91e6				0.000
FUNCTION3 PFK			3.53e5					364480		1.11e7				0.000
FUNCTION4 PFK			1.37e5					326792		5.86e6				
FUNCTION5 PFK			8.74e4					253518		3.59e6				
FUNCTION1 HXCDPE			7.73e1					418		1.46e3				0.000
FUNCTION1 HPCDPE			6.59e2					842		1.32e4				0.000
FUNCTION2 HPCDPE			1.74e2					818		3.54e3				0.000
FUNCTION3 OCDPE			0.00e0					313		0.00e0				
FUNCTION4 NCDPE			7.18e1					760		3.26e3				0.000
FUNCTION5 DCDPE			0.00e0					267		0.00e0				

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

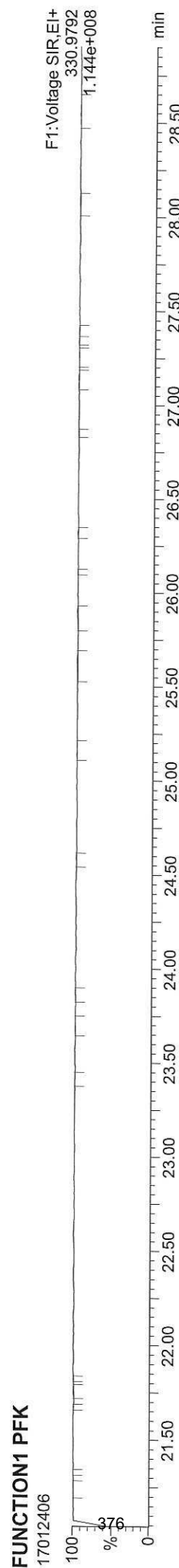
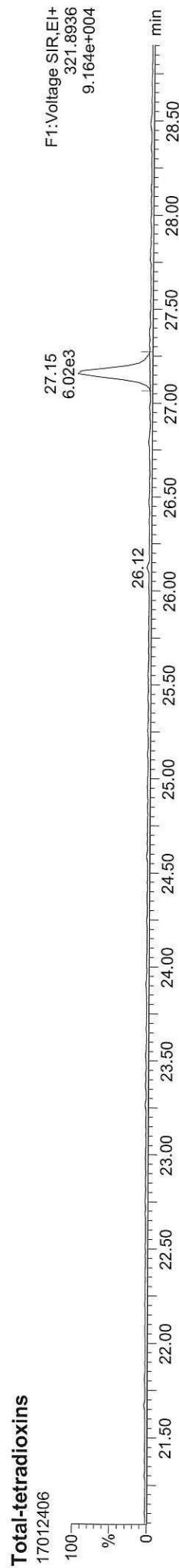
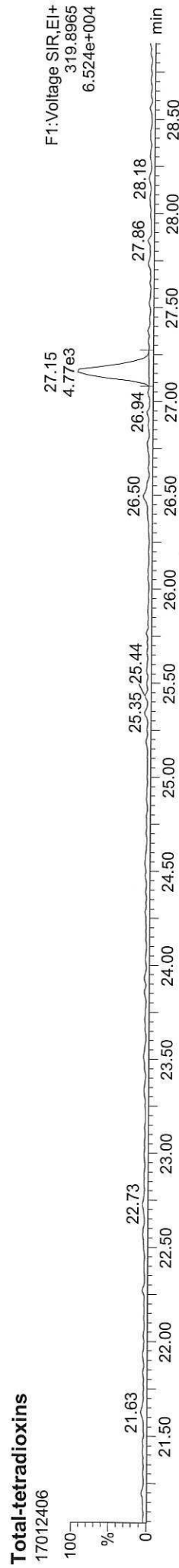
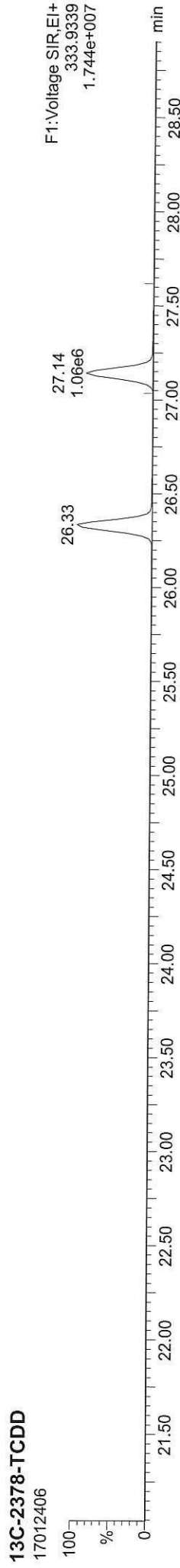
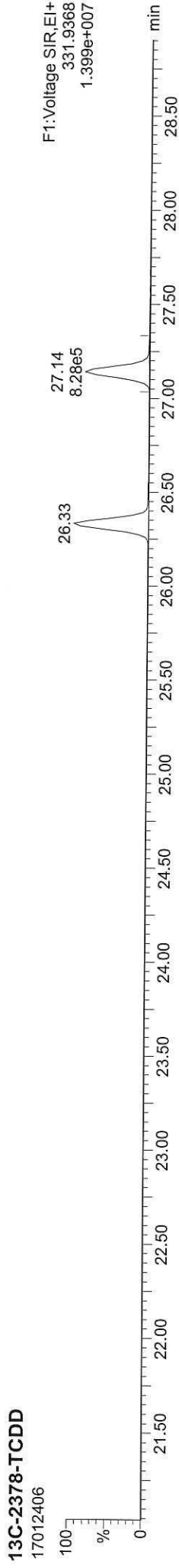
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:17 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170112.mdb 12 Jan 2017 14:01:03
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124\CAL.cdb 25 Jan 2017 09:33:34

ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk



ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk



ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

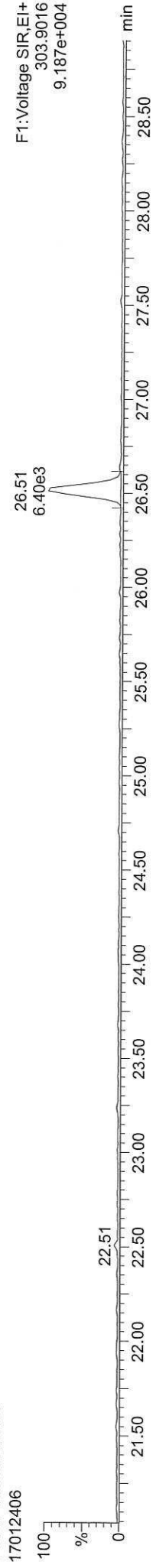
13C-2378-TCDF



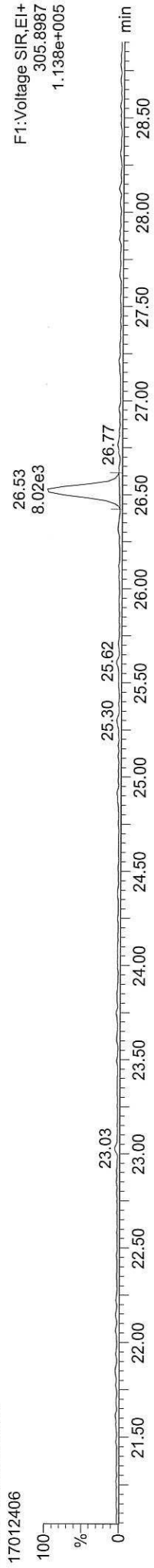
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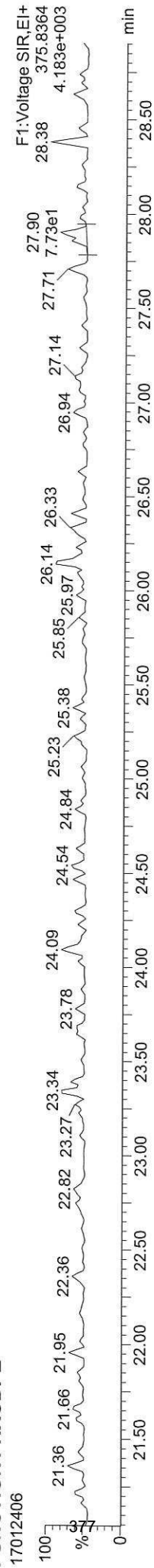
Total-tetrafurans



Total-tetrafurans

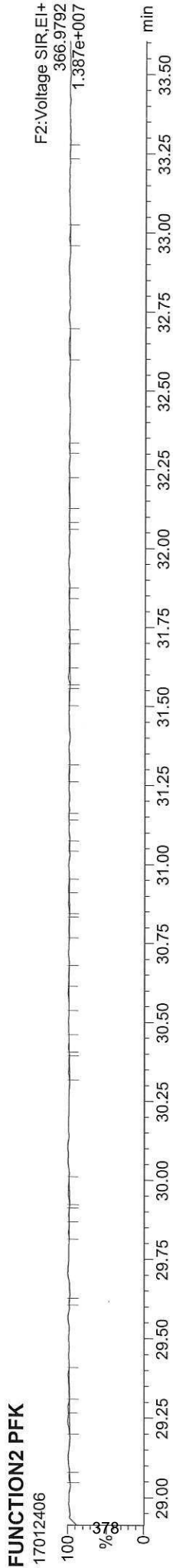
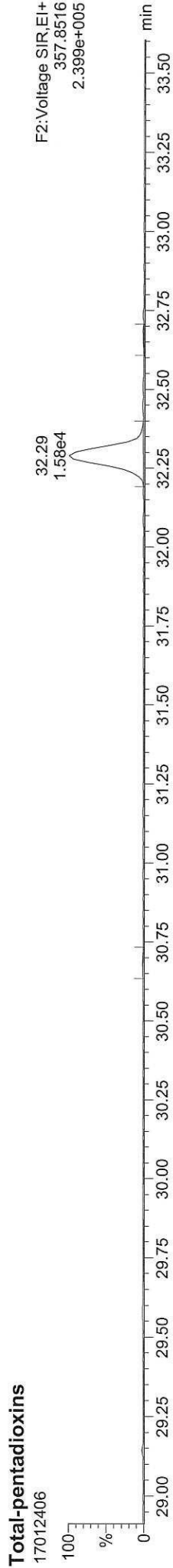
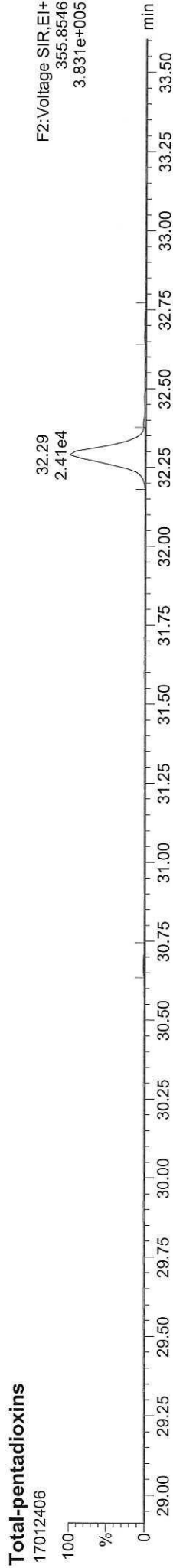
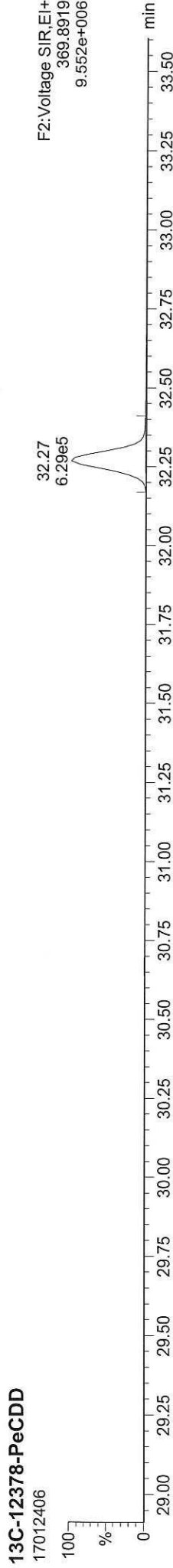
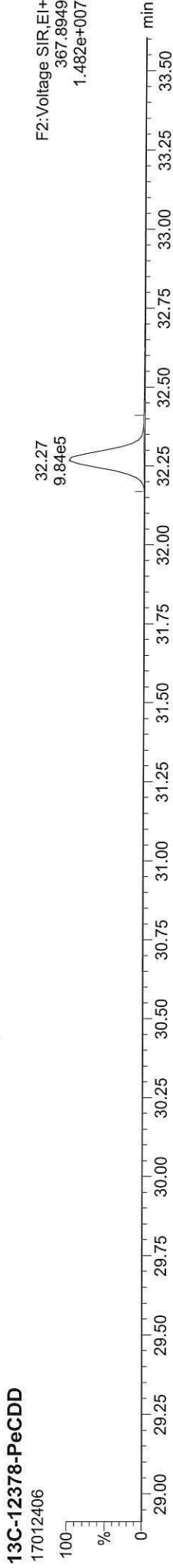


FUNCTION1 HXCDE



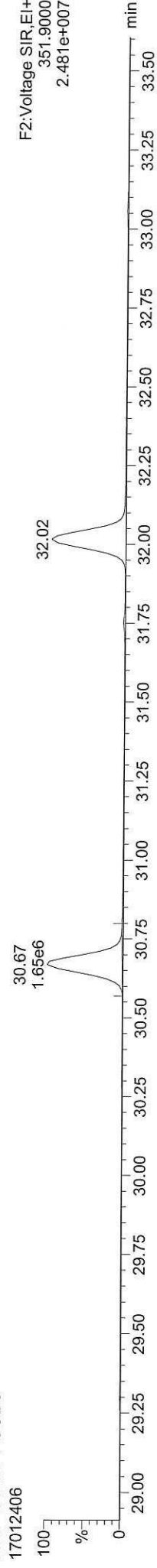
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:17 Pacific Standard Time

ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

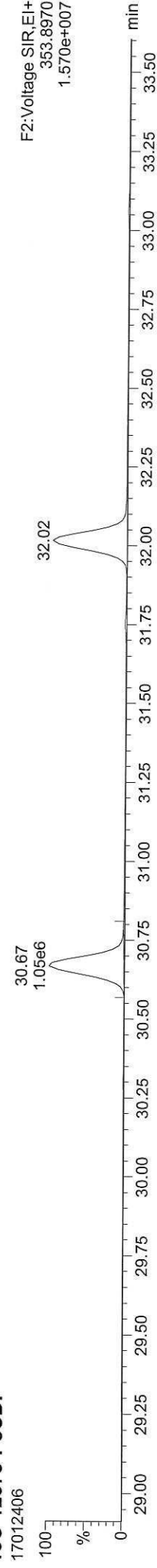


ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

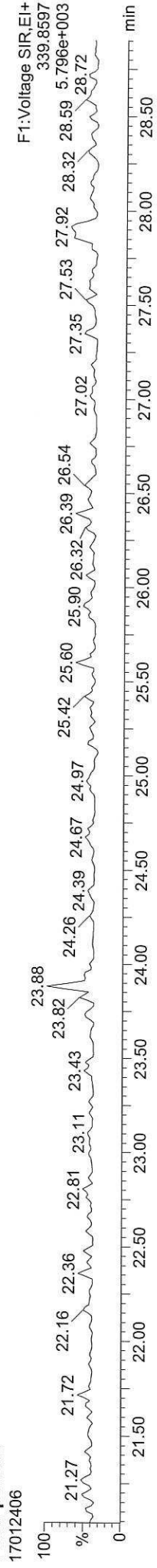
13C-12378-PeCDF



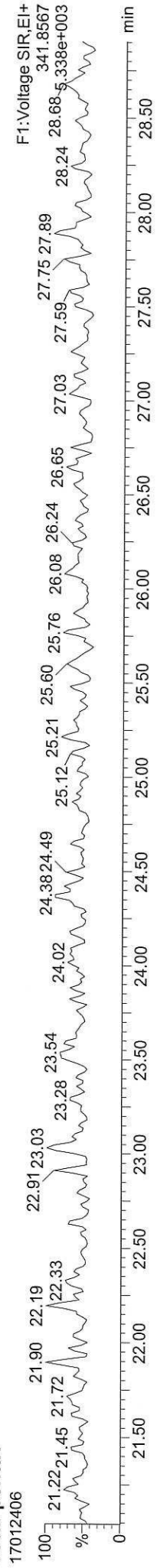
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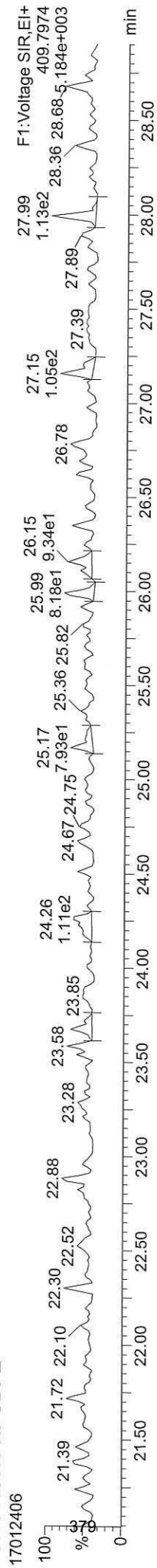
Total-penta1



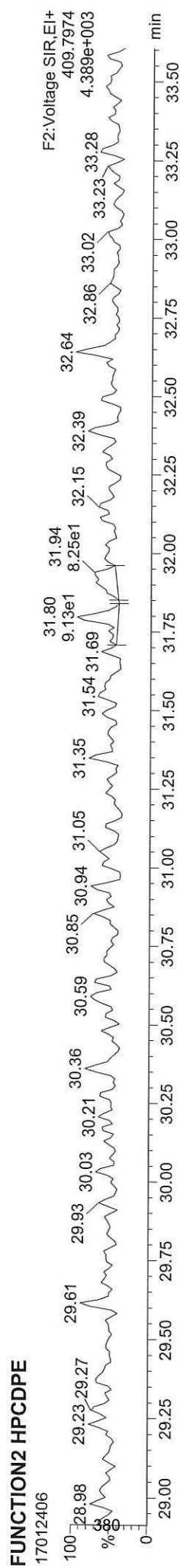
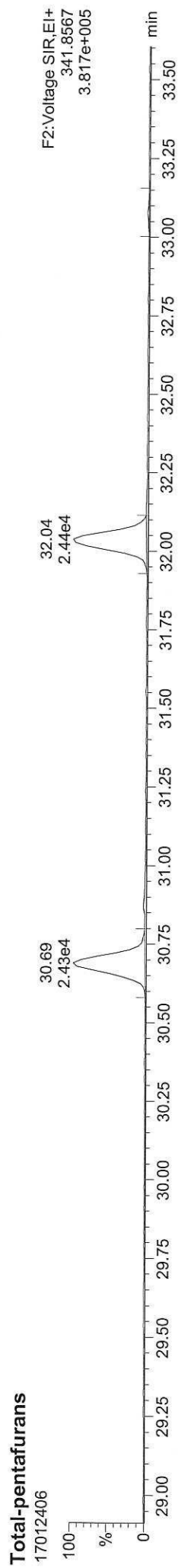
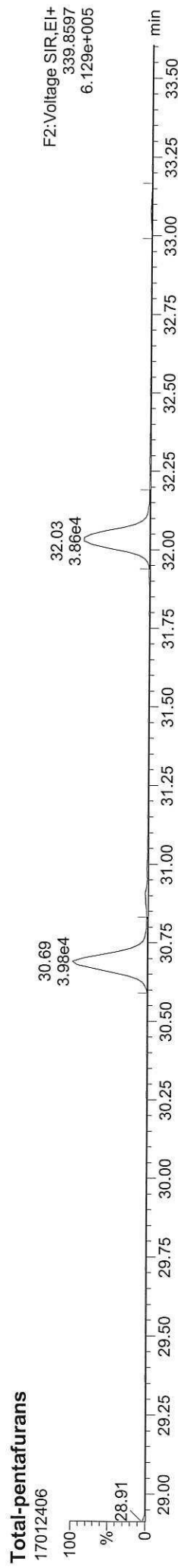
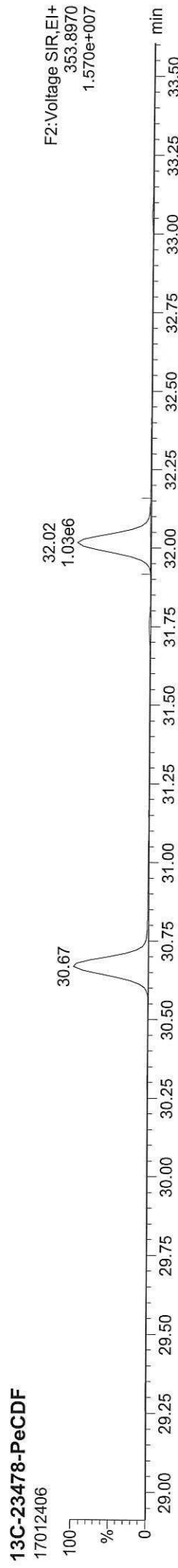
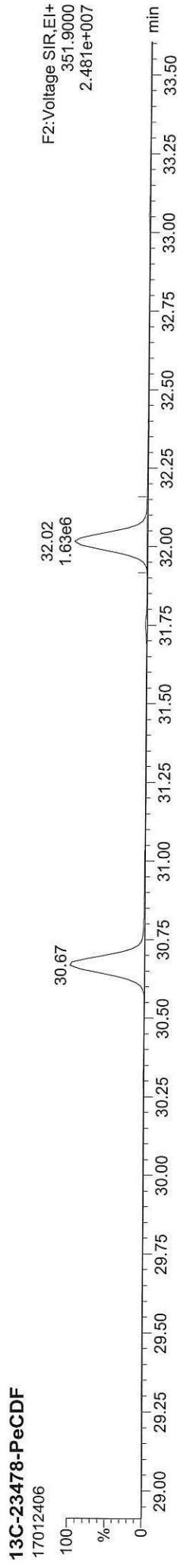
Total-penta1



FUNCTION1 HPCDPE



ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

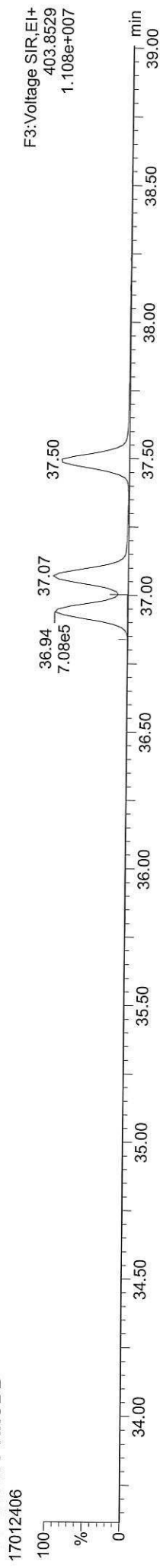


ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

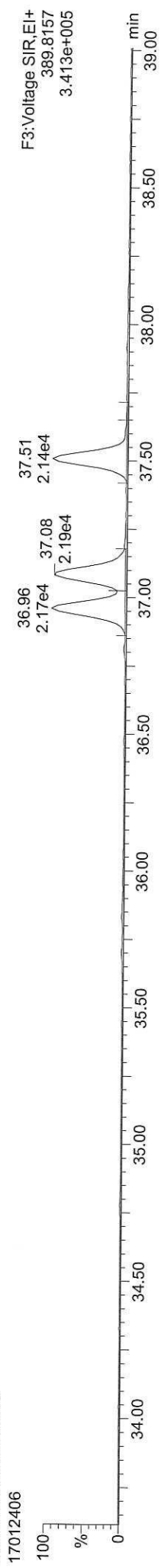
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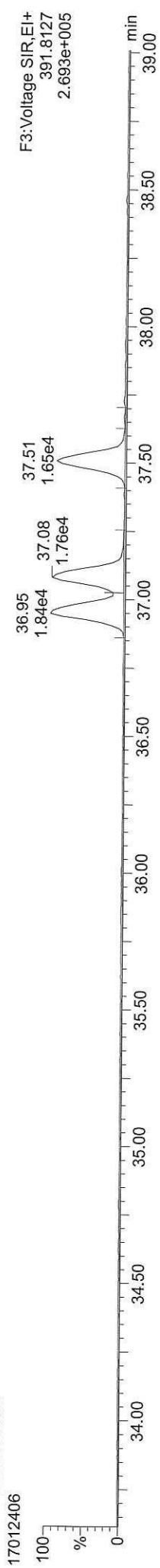
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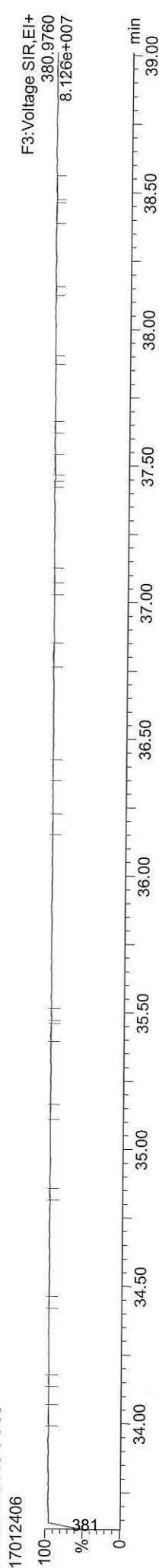
Total-hexadioxins



Total-hexadioxins

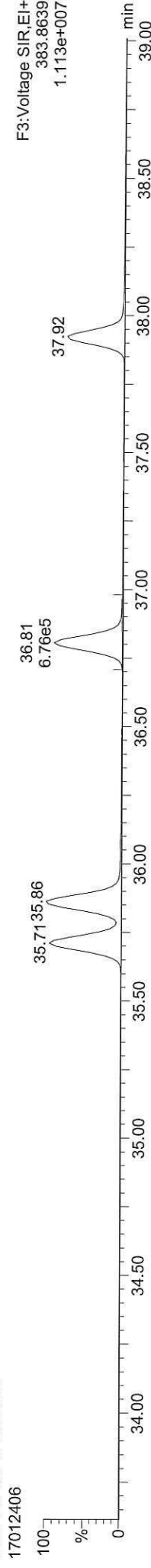


FUNCTION3 PFK

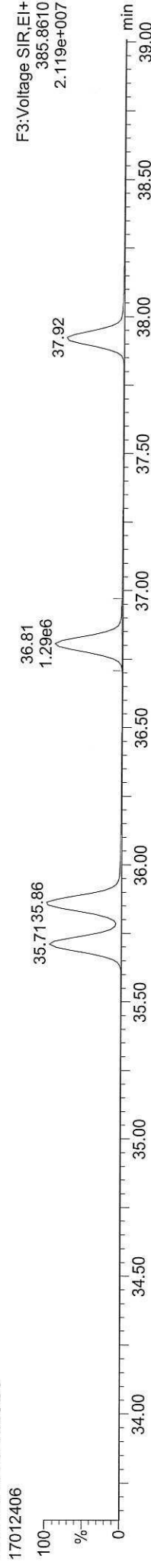


ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

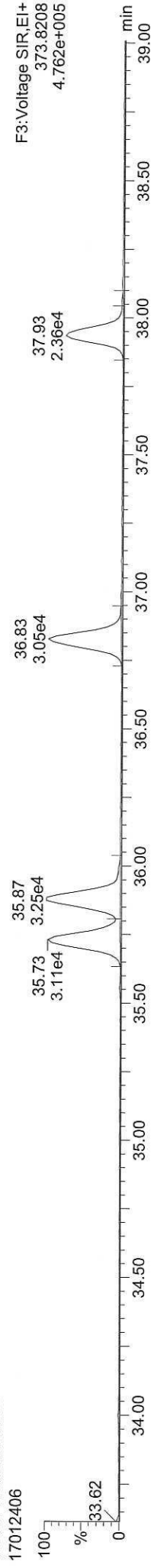
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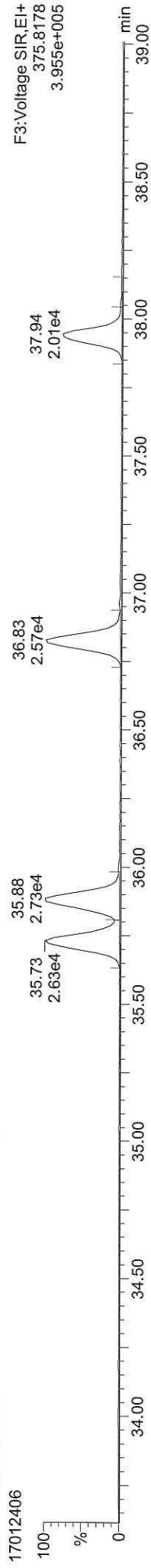
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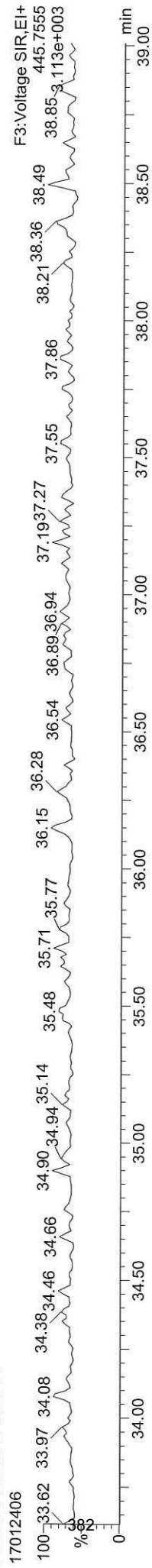
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

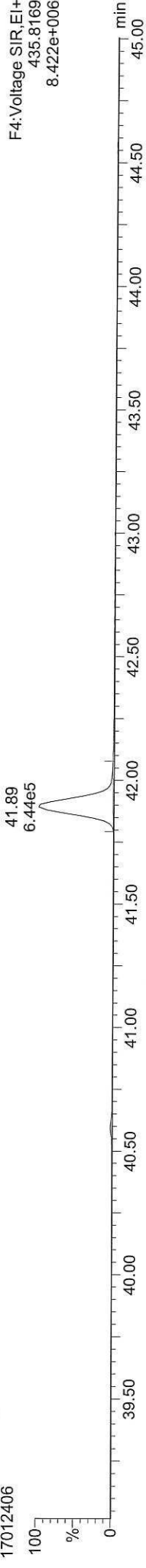
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:17 Pacific Standard Time

ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD

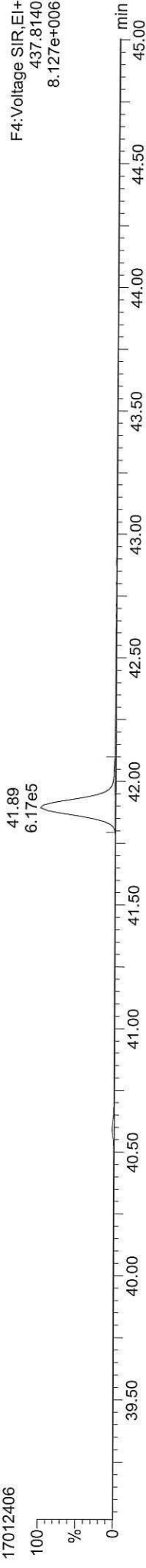
17012406



F4: Voltage SIR, EI+
435.8169
8.422e+006

13C-1234678-HpCDD

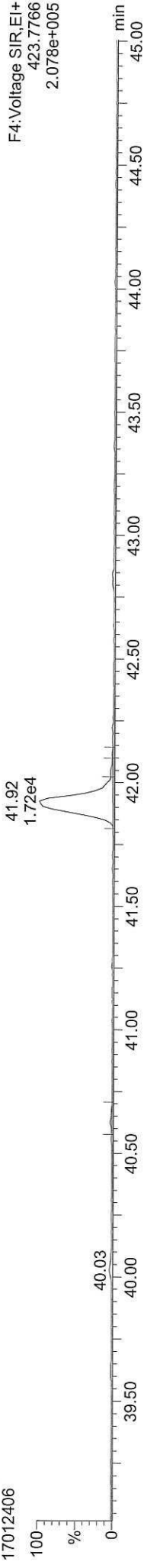
17012406



F4: Voltage SIR, EI+
437.8140
8.127e+006

Total-heptadioxins

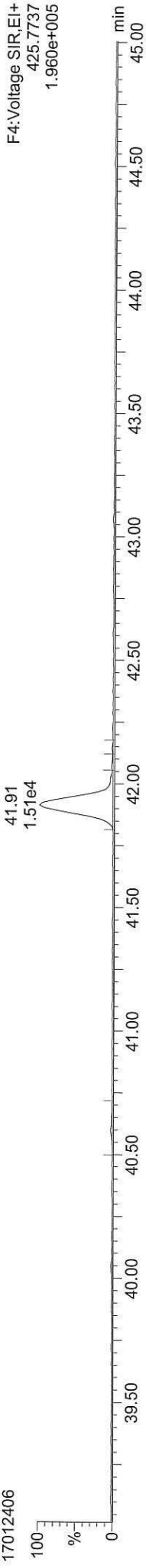
17012406



F4: Voltage SIR, EI+
423.7766
2.078e+005

Total-heptadioxins

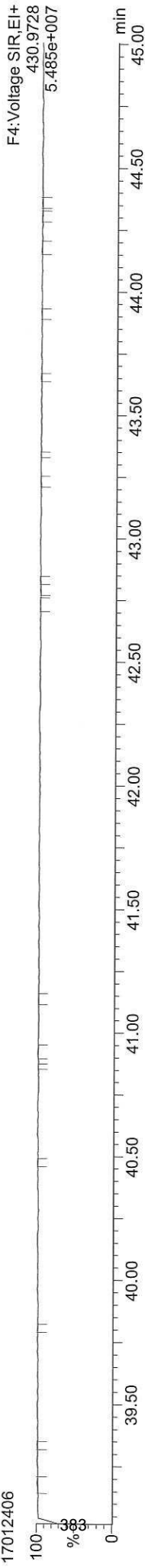
17012406



F4: Voltage SIR, EI+
425.7737
1.960e+005

FUNCTION4 PFK

17012406



F4: Voltage SIR, EI+
430.9728
5.485e+007

Dataset: C:\MassLynx\DIoxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

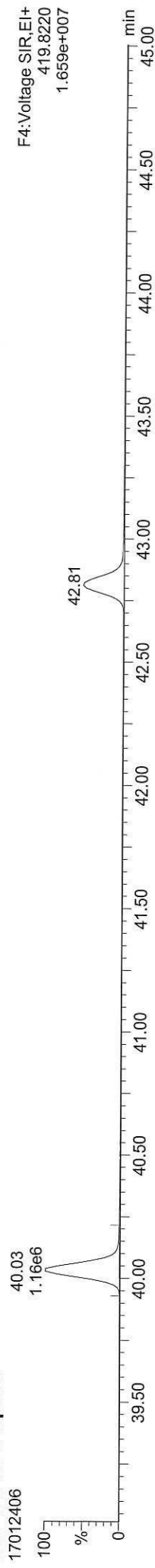
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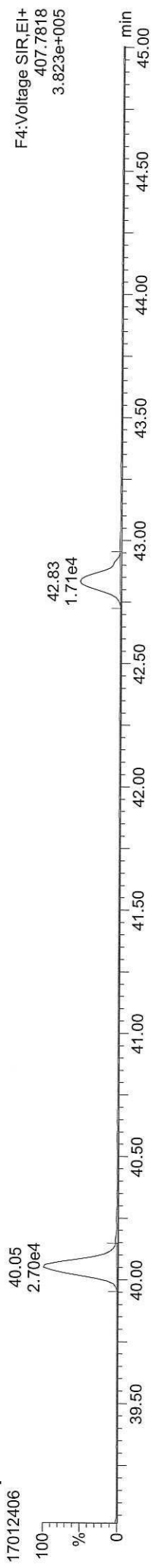
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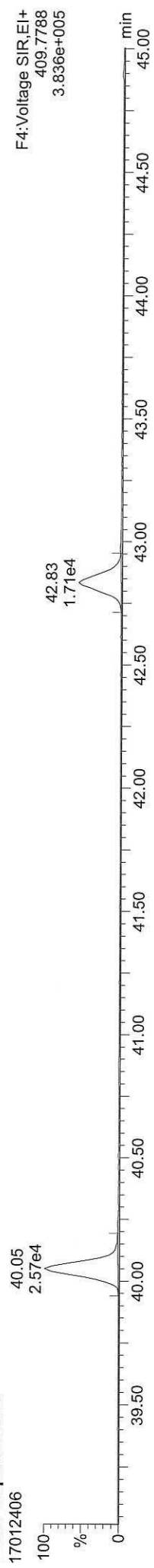
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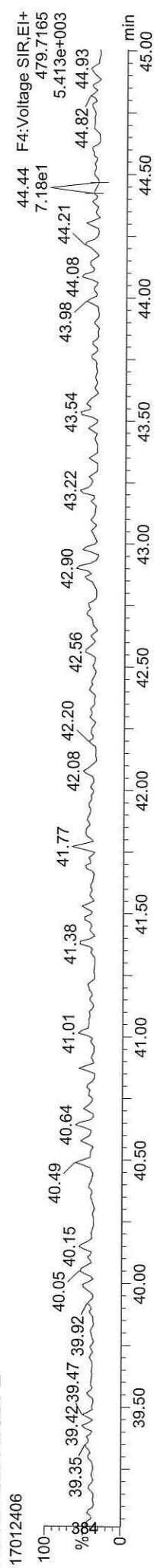
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

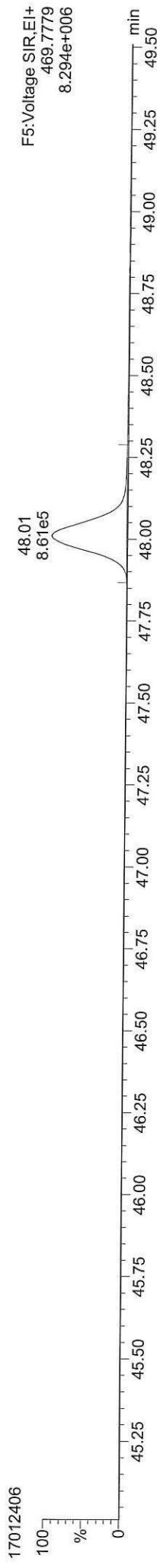


Quantify Sample Report

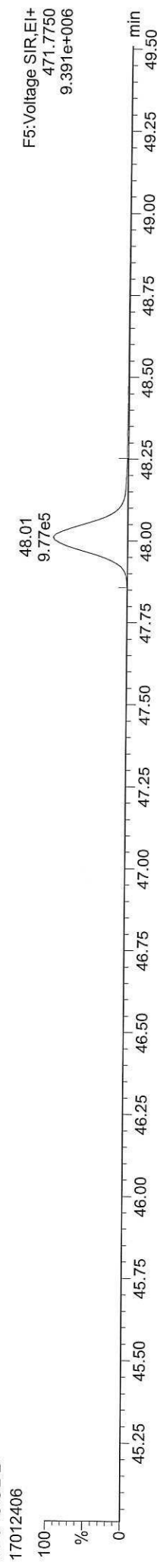
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:17 Pacific Standard Time

ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

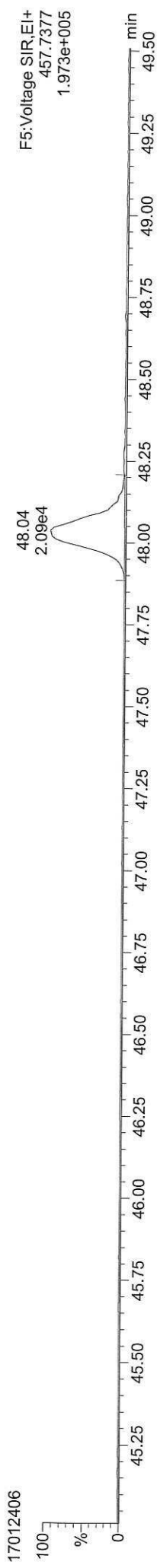
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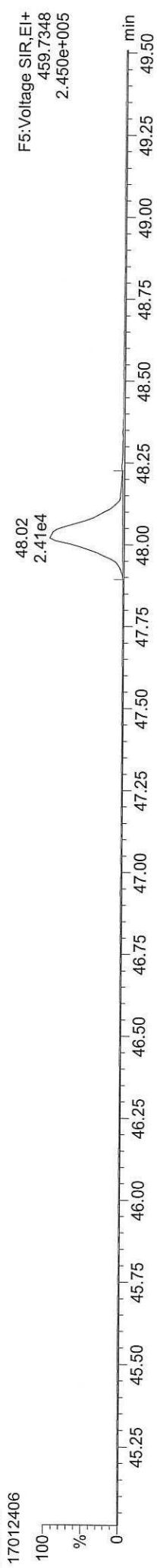
13C-OCDD



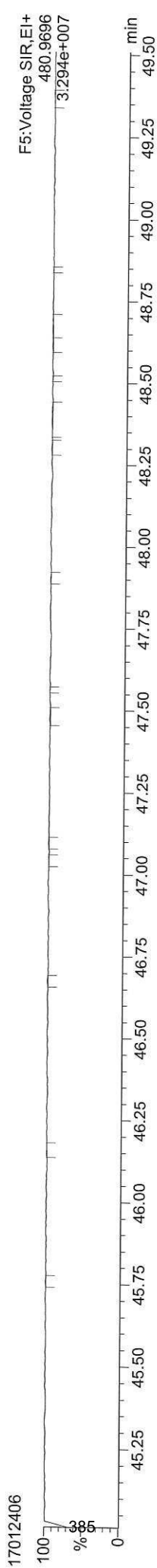
OCDD



OCDD



FUNCTION5 PFK



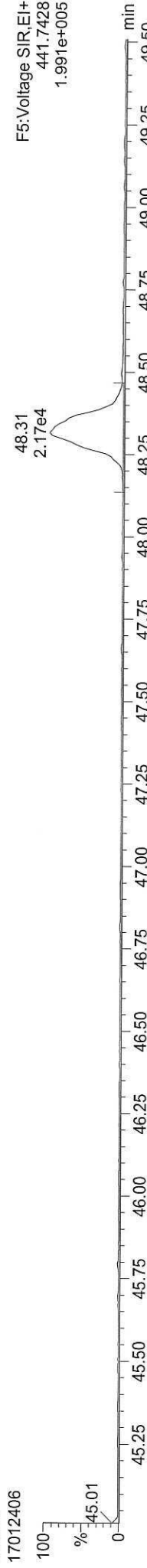
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Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:17 Pacific Standard Time

ID: CS1, Name: 17012406, Date: 24-Jan-2017, Time: 17:31:17, Conditions: AUTOSPEC01, User: pk

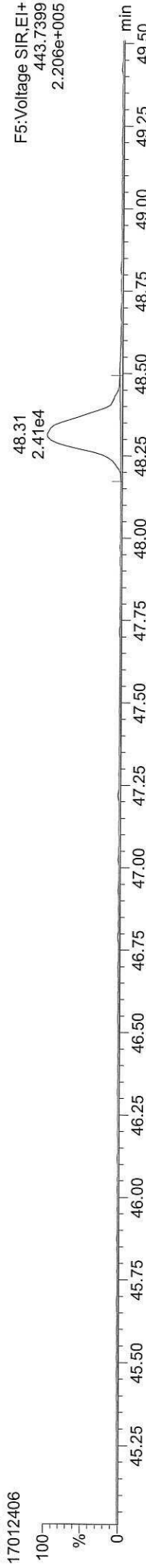
37CL-2378-TCDD



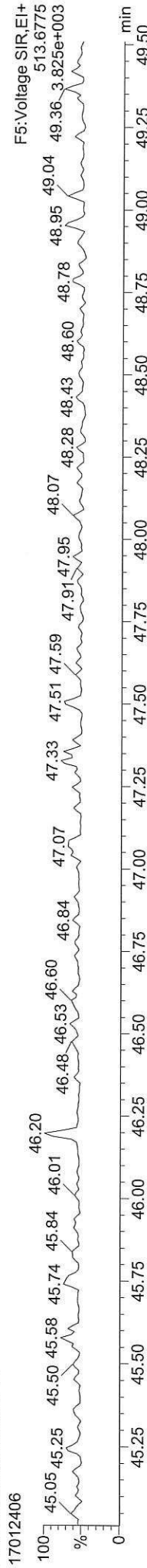
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:19 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170112.mdb 12 Jan 2017 14:01:03

Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124\CAL.cdb 25 Jan 2017 09:33:34

ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF	26.526	1.001	2.11e4	2.91e4	0.924	0.725	0.770	510	944	3.23e5	4.43e5	634.6	NO	1.914
12378-PeCDF	30.699	1.001	1.32e5	8.75e4	0.954	1.508	1.550	1480	2280	2.01e6	1.34e6	1359.9	NO	9.953
23478-PeCDF	32.047	1.001	1.30e5	8.29e4	0.966	1.571	1.550	1480	2280	1.99e6	1.23e6	1342.3	NO	9.770
123478-HxCDF	35.741	1.001	1.05e5	8.46e4	1.141	1.237	1.240	1723	1253	1.56e6	1.26e6	904.0	NO	9.492
234678-HxCDF	36.837	1.001	1.05e5	8.27e4	1.181	1.266	1.240	1723	1253	1.57e6	1.25e6	910.0	NO	9.758
123678-HxCDF	35.884	1.000	1.09e5	8.99e4	1.089	1.209	1.240	1723	1253	1.59e6	1.31e6	923.6	NO	9.588
123789-HxCDF	37.944	1.000	7.71e4	6.41e4	1.110	1.202	1.240	1723	1253	1.17e6	9.72e5	679.9	NO	9.706
1234678-HpCDF	40.060	1.001	9.08e4	8.57e4	1.267	1.060	1.050	1160	1343	1.34e6	1.23e6	1154.7	NO	10.011
1234789-HpCDF	42.844	1.001	5.76e4	5.45e4	1.295	1.058	1.050	1160	1343	6.90e5	6.72e5	595.0	NO	9.702
OCDF	48.332	1.007	7.00e4	8.00e4	1.067	0.875	0.890	740	993	6.80e5	7.76e5	918.5	NO	18.636
2378-TCDD	27.169	1.001	1.57e4	2.04e4	1.150	0.768	0.770	1049	625	2.45e5	3.00e5	233.9	NO	1.939
12378-PeCDD	32.299	1.001	8.21e4	5.40e4	1.017	1.519	1.550	987	905	1.26e6	8.18e5	1276.5	NO	9.815
123478-HxCDD	36.969	1.001	7.54e4	5.78e4	1.017	1.305	1.240	1245	1081	1.13e6	9.00e5	907.2	NO	9.815
123678-HxCDD	37.089	1.000	7.45e4	5.85e4	0.964	1.274	1.240	1245	1081	1.06e6	8.90e5	853.5	NO	9.688
123789-HxCDD	37.517	1.012	6.93e4	5.55e4	0.948	1.248	1.240	1245	1081	1.04e6	8.80e5	833.3	NO	9.554
1234678-HpCDD	41.923	1.001	5.47e4	5.19e4	1.051	1.054	1.050	845	896	6.92e5	6.65e5	818.9	NO	9.719
OCDD	48.036	1.001	7.02e4	7.76e4	1.030	0.904	0.890	920	1125	6.85e5	7.49e5	744.9	NO	19.017
13C-2378-TCDF	26.511	1.006	1.24e6	1.59e6	1.515	0.777	0.770	6174	3396	1.85e7	2.37e7	3000.3	NO	97.586
13C-12378-PeCDF	30.677	1.164	1.41e6	9.05e5	1.276	1.556	1.550	3038	2595	2.10e7	1.34e7	6912.2	NO	94.500
13C-23478-PeCDF	32.025	1.216	1.38e6	8.73e5	1.257	1.584	1.550	3038	2595	2.11e7	1.33e7	6934.9	NO	93.637
13C-123478-HxCDF	35.719	0.953	5.96e5	1.15e6	1.431	0.517	0.510	2903	4271	8.94e6	1.73e7	3080.7	NO	101.354
13C-123678-HxCDF	35.873	0.957	6.38e5	1.26e6	1.552	0.504	0.510	2903	4271	9.43e6	1.82e7	3248.0	NO	101.701
13C-234678-HxCDF	36.815	0.982	5.59e5	1.07e6	1.349	0.523	0.510	2903	4271	8.35e6	1.61e7	2876.4	NO	100.045
13C-123789-HxCDF	37.933	1.012	4.49e5	8.62e5	1.111	0.521	0.510	2903	4271	7.05e6	1.33e7	2429.8	NO	97.859
13C-1234678-HpCDF	40.038	1.068	4.32e5	9.59e5	1.160	0.451	0.440	2168	2744	6.26e6	1.38e7	2887.8	NO	99.572
13C-1234789-HpCDF	42.822	1.142	2.83e5	6.09e5	0.758	0.464	0.440	2168	2744	3.46e6	7.50e6	1594.6	NO	97.691
13C-1234-TCDD	26.347	0.000	8.47e5	1.07e6	1.000	0.791	0.770	2698	1994	1.26e7	1.59e7	4680.6	NO	100.000
13C-2378-TCDD	27.154	1.031	7.14e5	9.07e5	0.872	0.788	0.770	2698	1994	1.06e7	1.36e7	3942.8	NO	96.910
13C-23378-PeCDD	32.278	1.225	8.35e5	5.29e5	0.754	1.579	1.550	1748	2004	1.27e7	8.05e6	7251.2	NO	94.248
13C-123478-HxCDD	36.947	0.985	7.45e5	5.89e5	1.106	1.265	1.240	2033	1477	1.14e7	9.03e6	5618.7	NO	100.058
13C-123678-HxCDD	37.078	0.989	7.83e5	6.40e5	1.165	1.224	1.240	2033	1477	1.16e7	9.35e6	5723.7	NO	101.374
13C-1234678-HpCDD	41.901	1.118	5.36e5	5.07e5	0.872	1.057	1.050	2799	2073	6.92e6	6.53e6	2473.5	NO	99.223
13C-OCDD	48.009	1.280	7.23e5	7.86e5	0.655	0.919	0.890	2568	2059	6.82e6	7.51e6	2656.2	NO	191.039

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:19 Pacific Standard Time

ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk

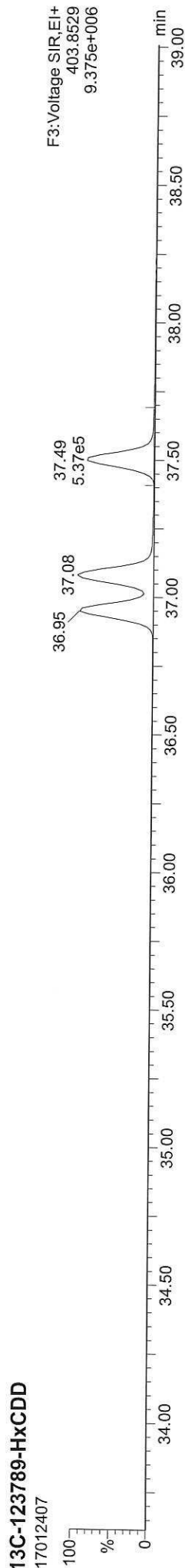
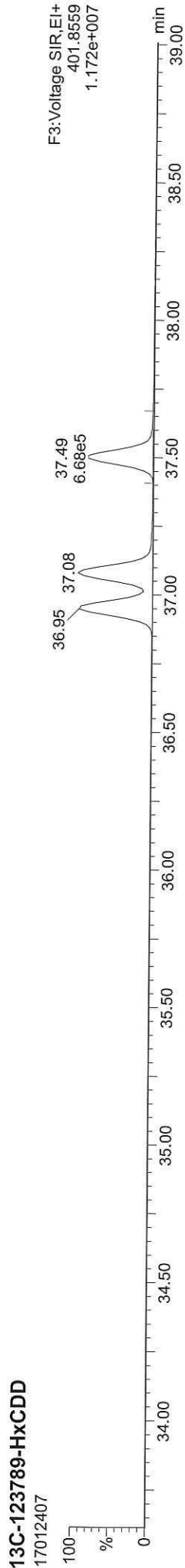
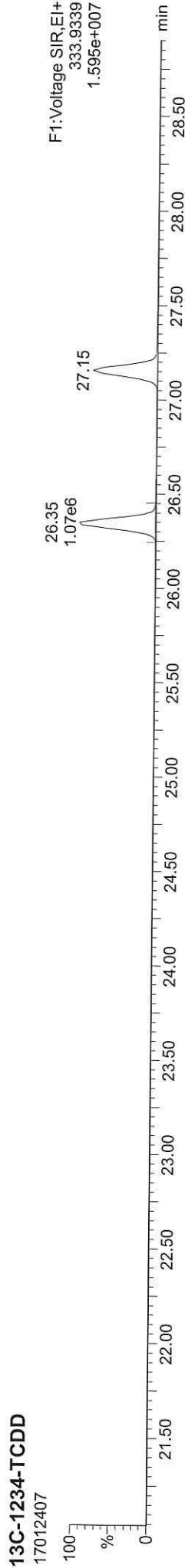
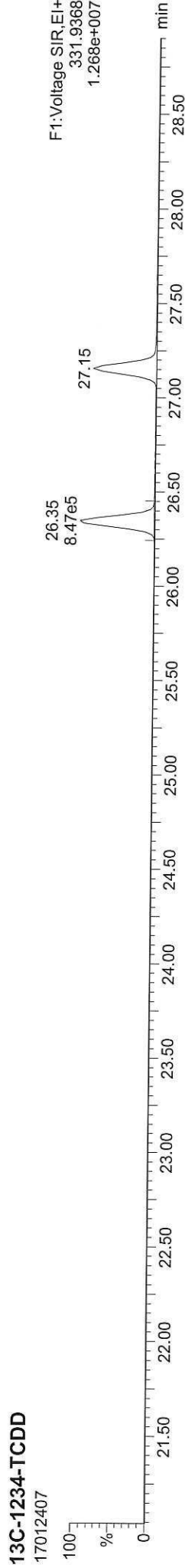
Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
13C-123789-HxCDD	37.495	0.000	6.68e5	5.37e5	1.000	1.244	1.240	2033	1477	1.01e7	8.16e6	4971.1	NO	100.000
Total-tetrafurans			2.14e4		0.924			510		3.28e5				1.942
Total-penta 1			3.32e2					606		4.40e3				0.022
Total-pentafurans			2.69e5		0.960			1480		4.09e6				20.218
Total-hexafurans			3.95e5		1.130			1723		5.89e6				38.544
Total-heptafurans			1.49e5		1.281			1160		2.05e6				19.840
Total-Furans			9.05e5		1.100			510		1.30e7				99.201
Total-tetra-dioxins			1.61e4		1.150			1049		2.54e5				2.005
Total-pentadioxins			8.26e4		1.017			987		1.27e6				9.871
Total-hexadioxins			2.20e5		0.977			1245		3.24e6				29.110
Total-heptadioxins			5.52e4		1.051			845		7.07e5				9.856
Total-Dioxins			4.44e5		1.025			1049		6.16e6				69.874
Total-TEQ			1.35e6					1049		1.92e7				169.076
37CL-2378-TCDD	27.169	1.031	3.88e4		1.073			1024		5.87e5		572.8		1.888
FUNCTION1 PFK			2.91e5					506208		6.46e6				
FUNCTION2 PFK			0.00e0					142484		0.00e0				
FUNCTION3 PFK			5.64e5					362321		1.63e7				0.000
FUNCTION4 PFK			2.92e5					318717		9.57e6				
FUNCTION5 PFK			2.91e5					240404		1.08e7				
FUNCTION1 HXCDPE			0.00e0					324		0.00e0				
FUNCTION1 HPCDPE			2.49e2					584		4.54e3				0.000
FUNCTION2 HPCDPE			9.44e1					764		1.59e3				0.000
FUNCTION3 OCDPE			0.00e0					331		0.00e0				
FUNCTION4 NCDPE			0.00e0					501		0.00e0				
FUNCTION5 DCDPE			0.00e0					332		0.00e0				

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:19 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170112.mdb 12 Jan 2017 14:01:03
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124\CAL.cdb 25 Jan 2017 09:33:34

ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk



ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD



13C-2378-TCDD



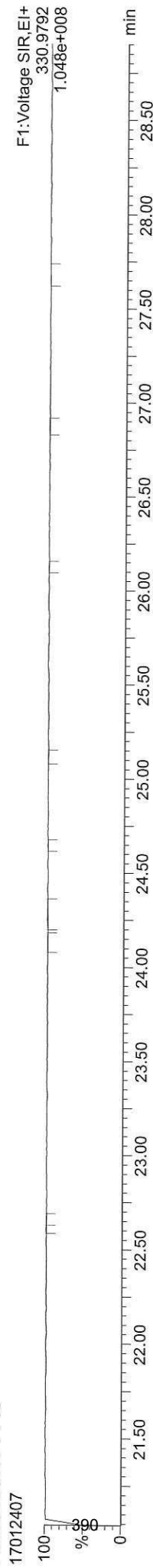
Total-tetradoxins



Total-tetradoxins

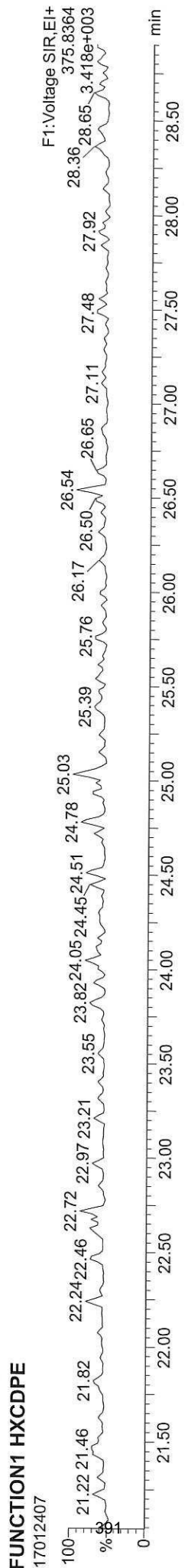
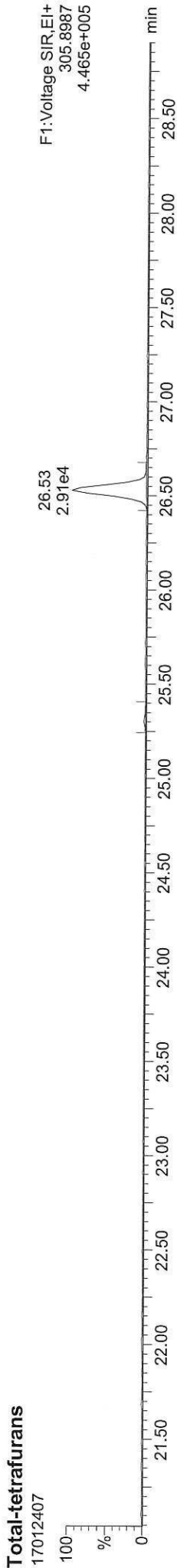
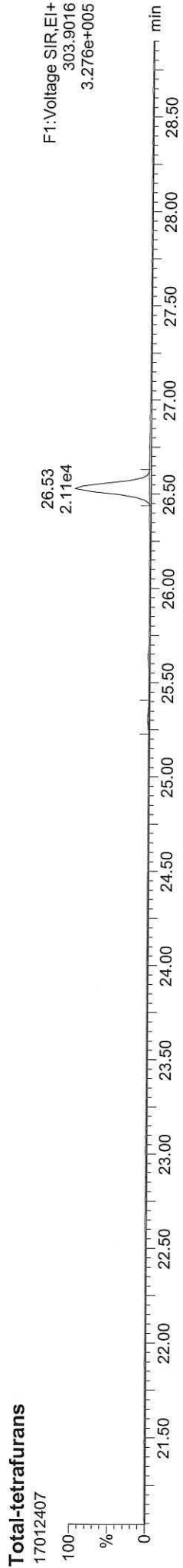
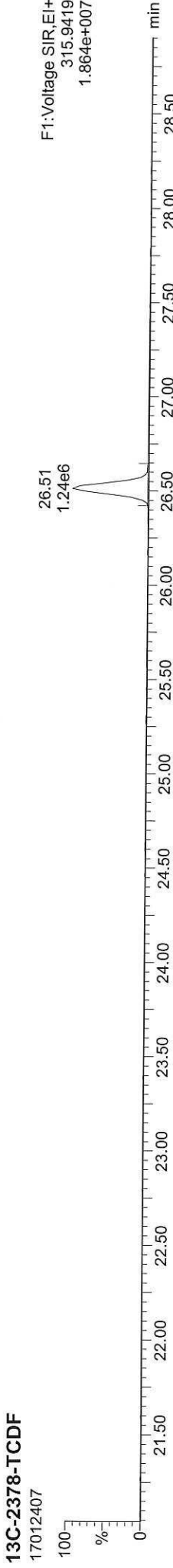


FUNCTION1 PFK



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:19 Pacific Standard Time

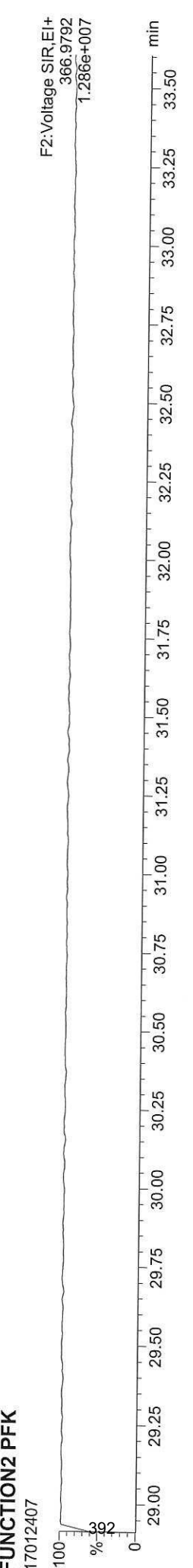
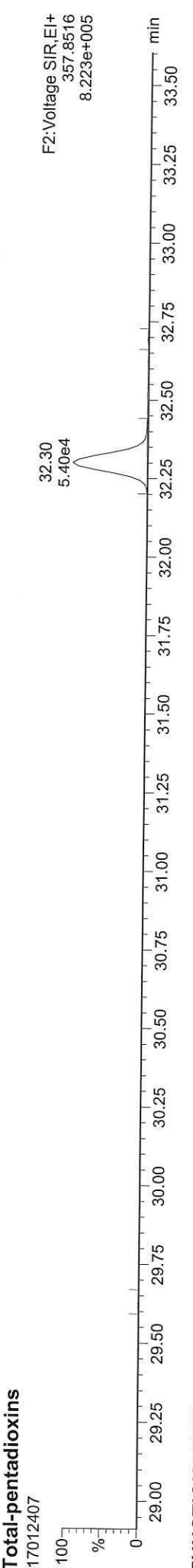
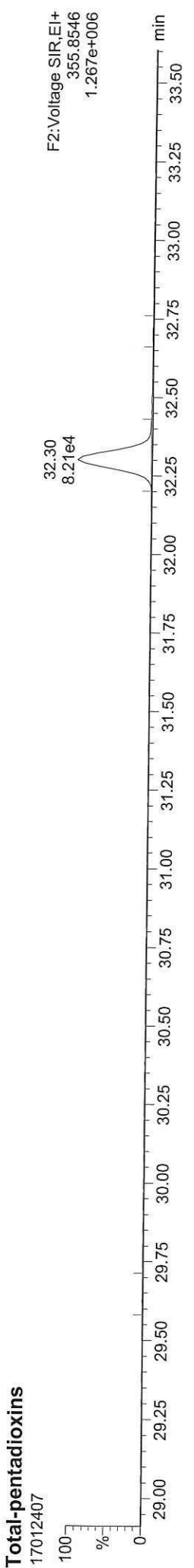
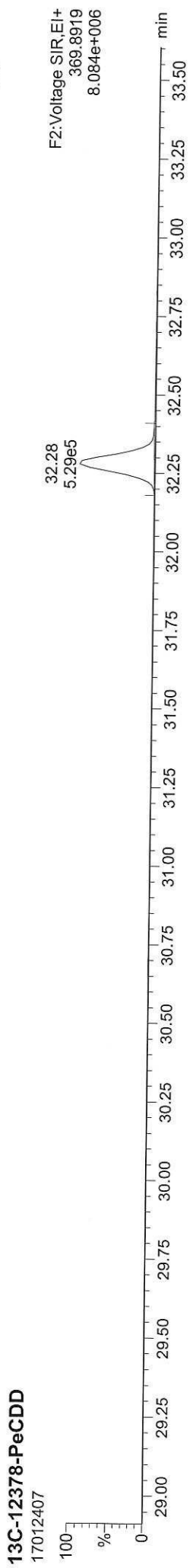
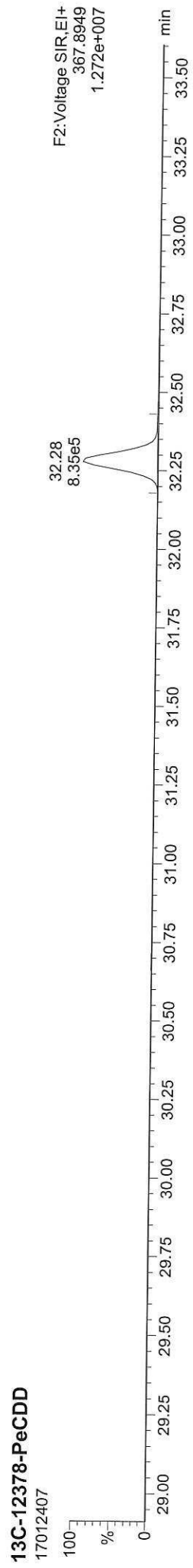
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Quantify Sample Report

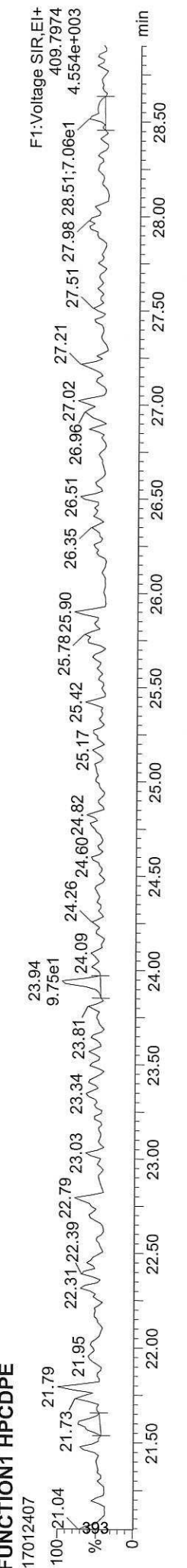
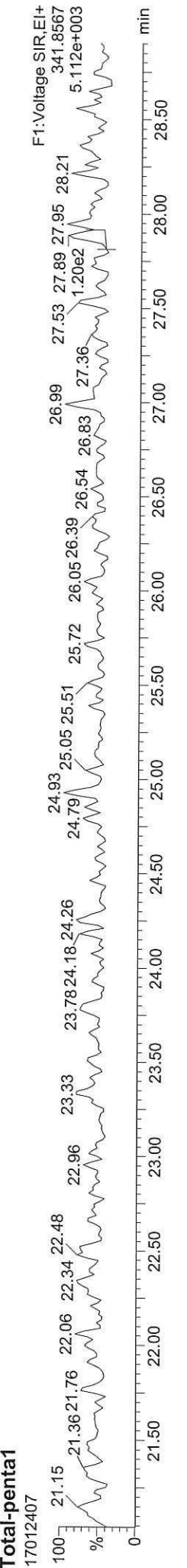
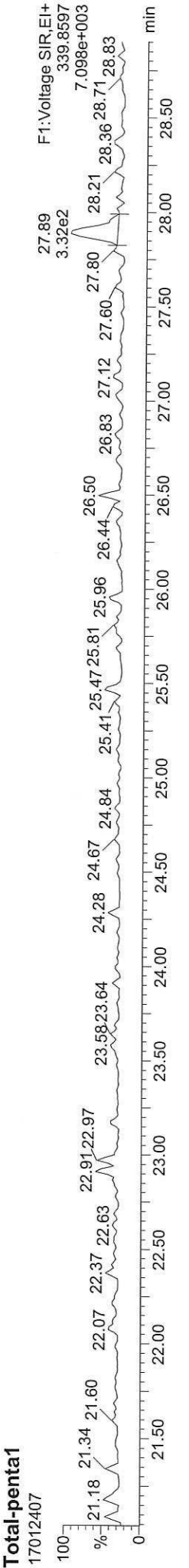
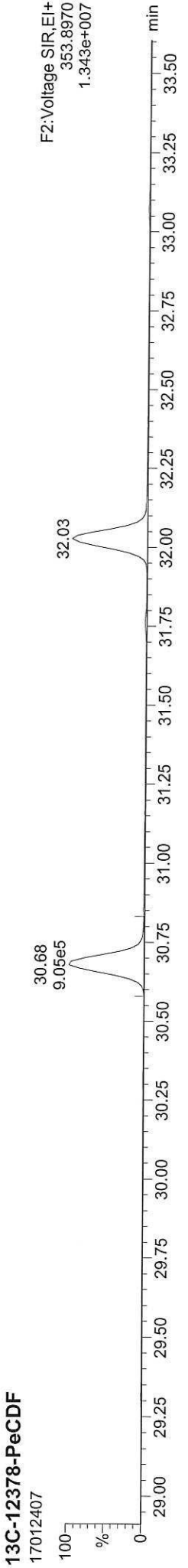
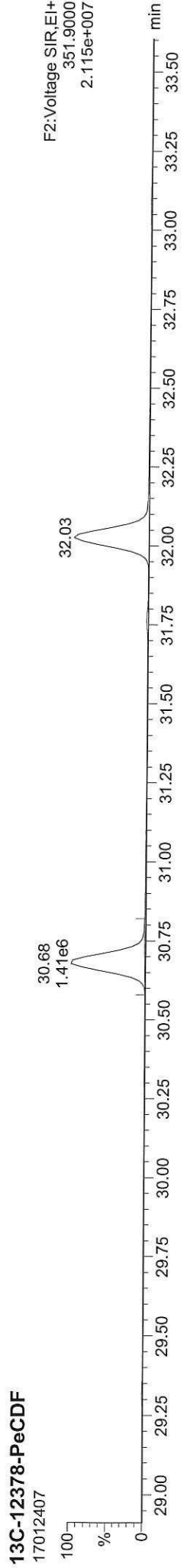
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:19 Pacific Standard Time

ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk



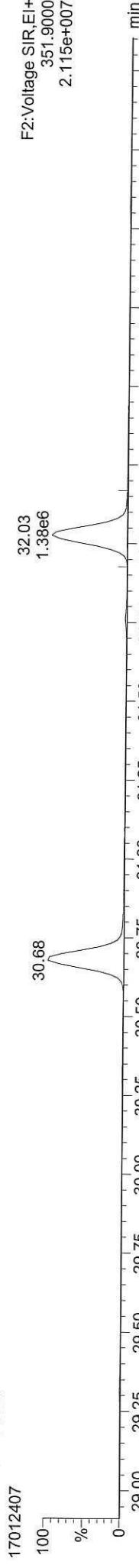
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
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ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk

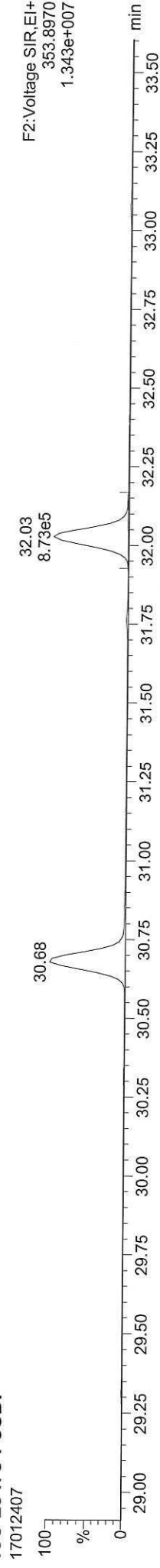


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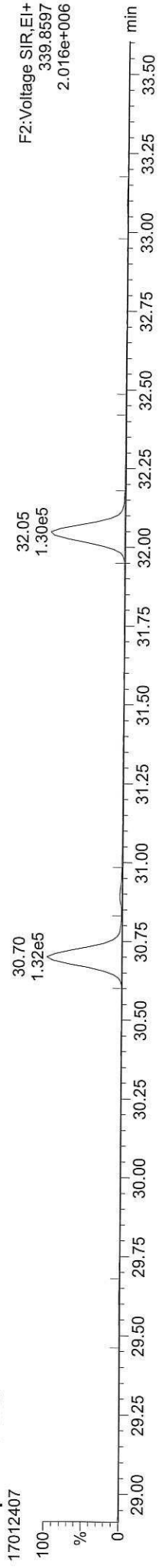
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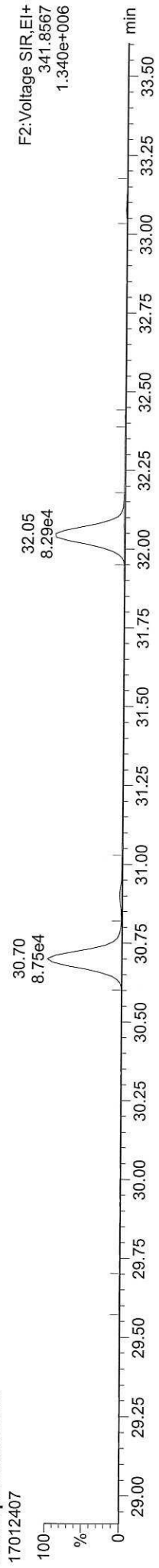
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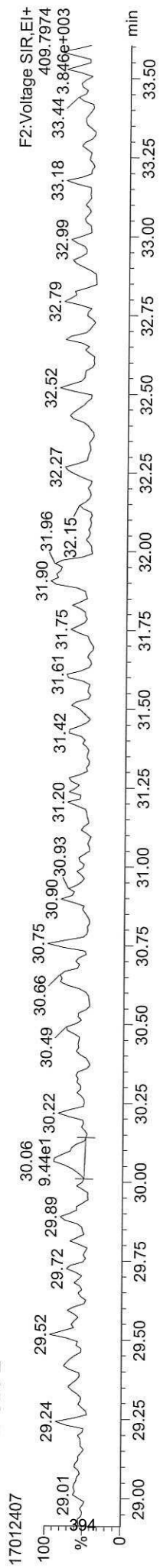
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

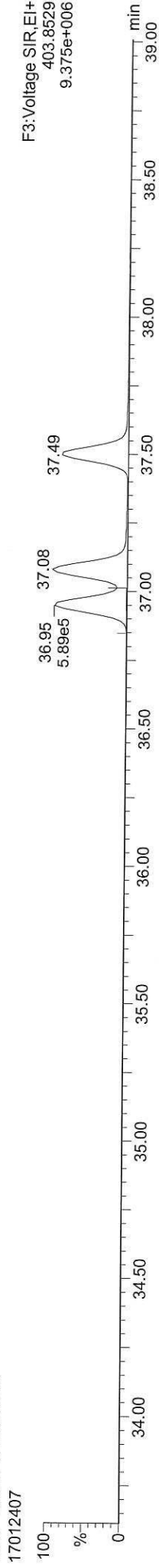


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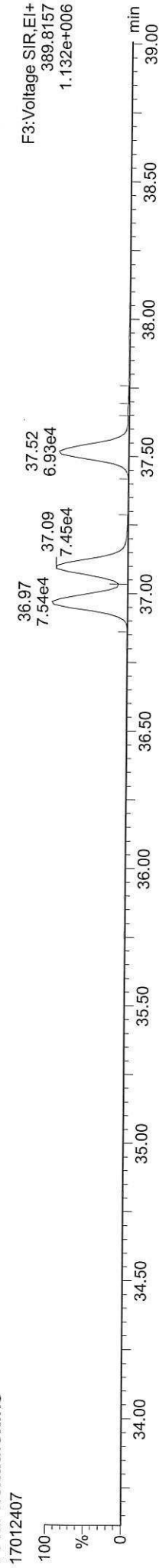
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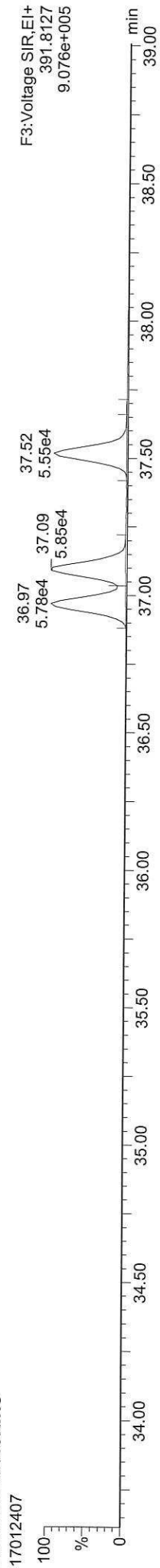
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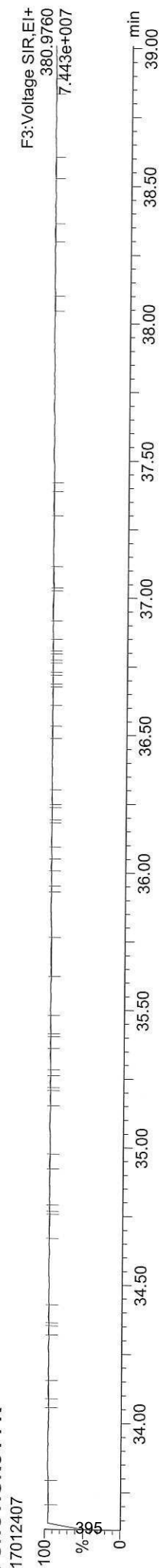
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

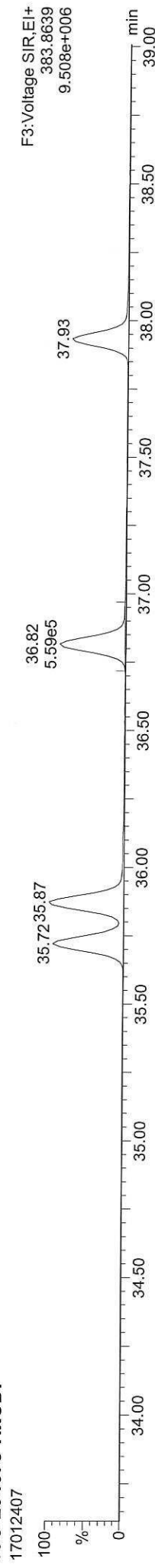


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

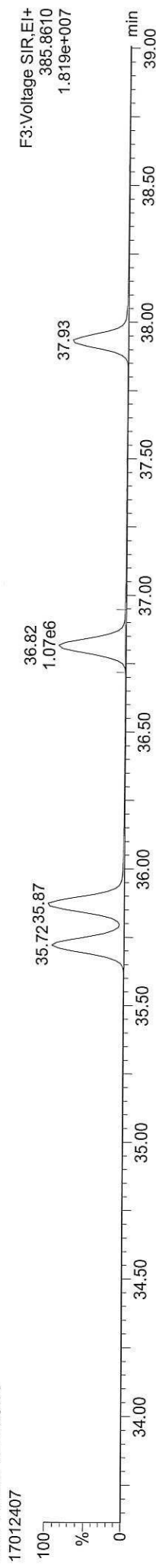
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Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:19 Pacific Standard Time

ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk

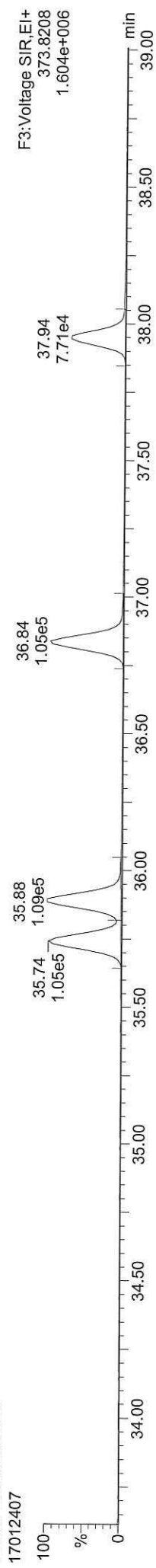
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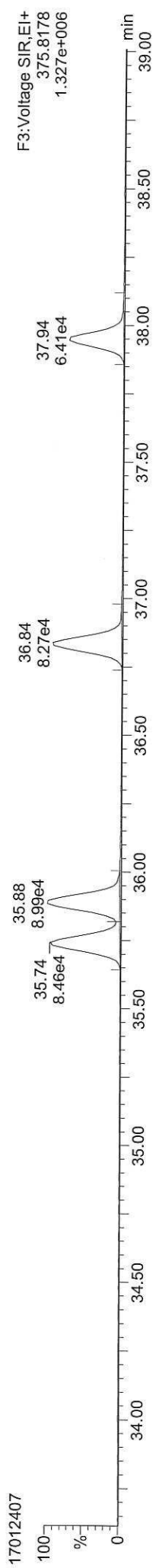
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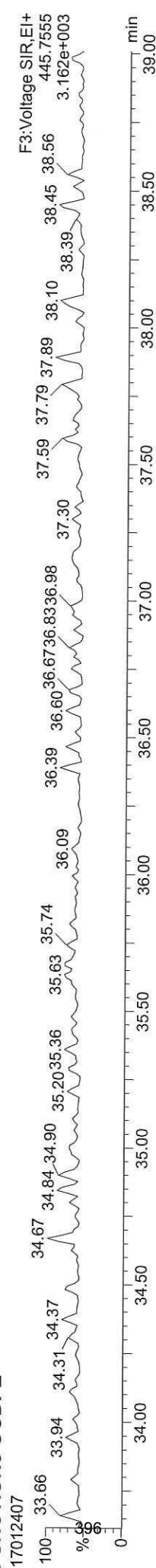
Total-hexafurans



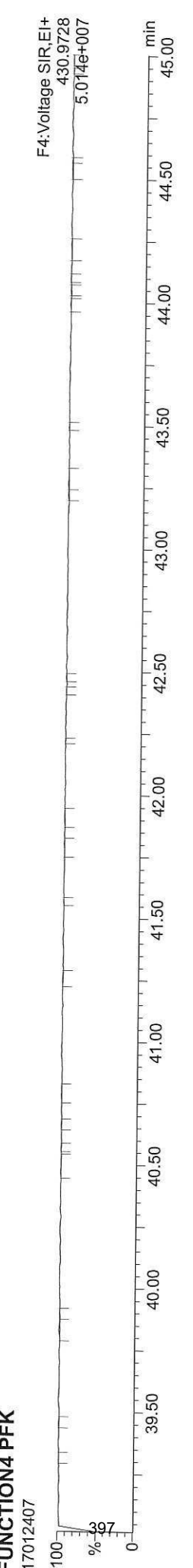
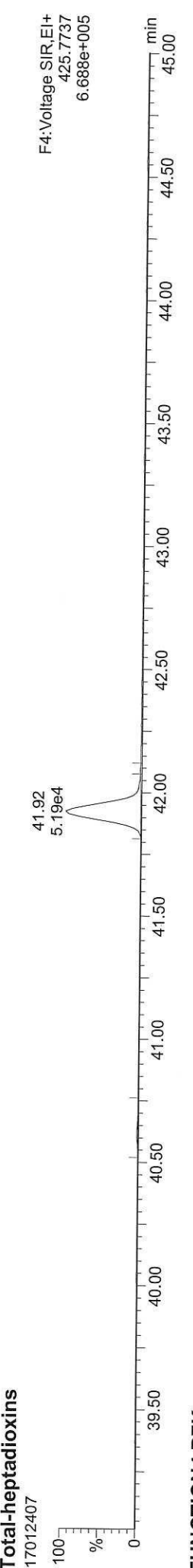
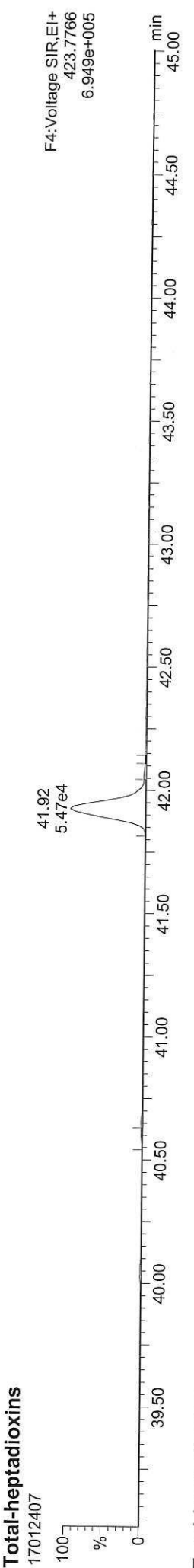
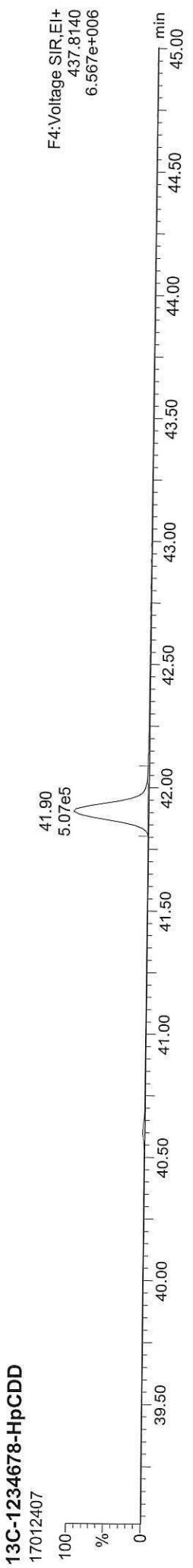
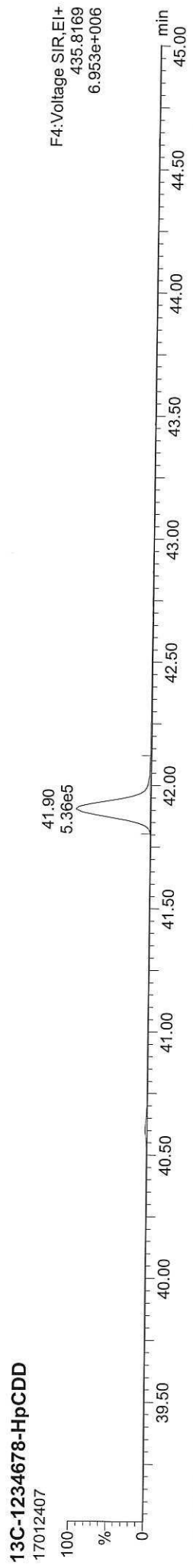
Total-hexafurans



FUNCTION3 OCDPE

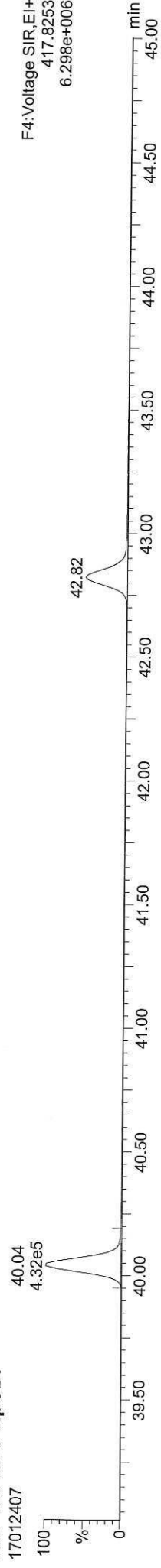


ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk

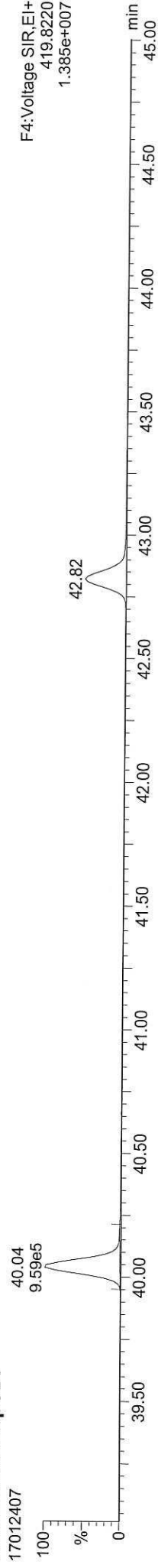


ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk

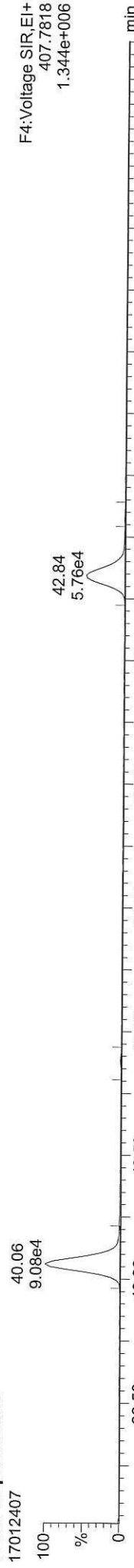
13C-1234678-HpCDF



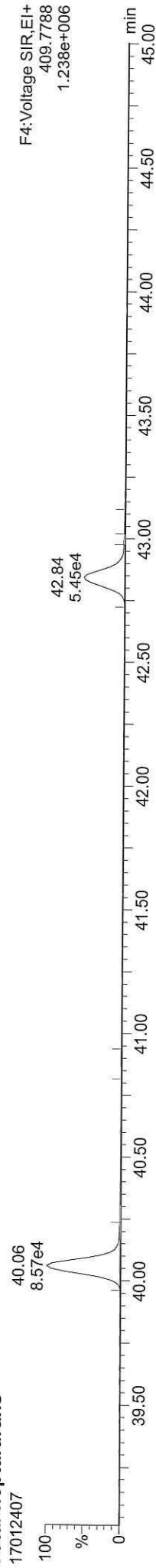
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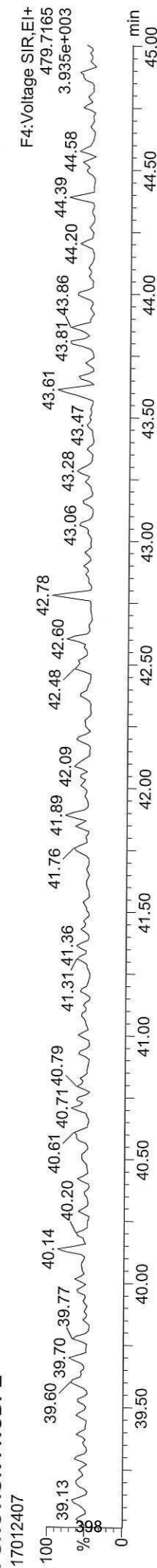
Total-heptafurans



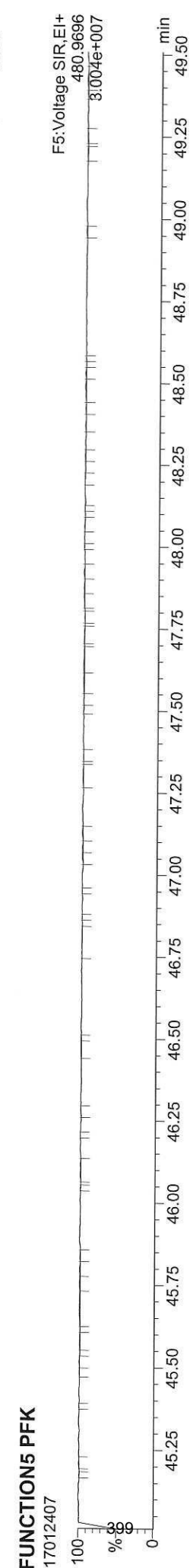
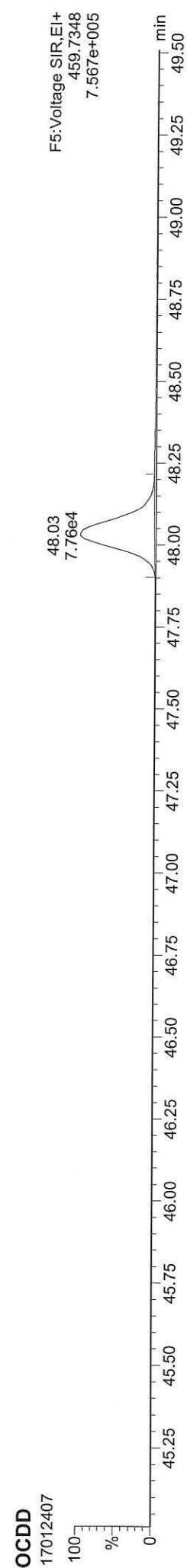
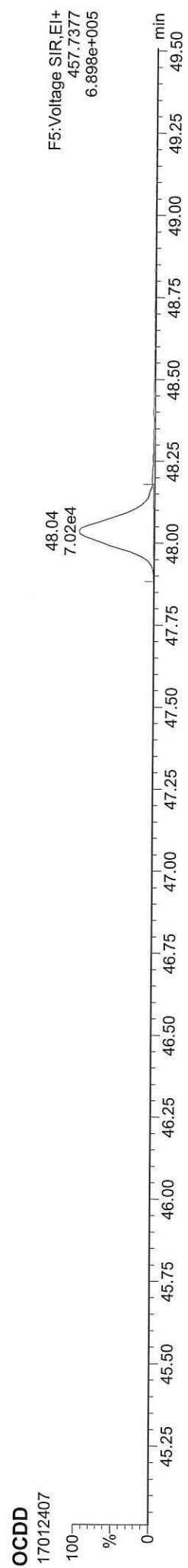
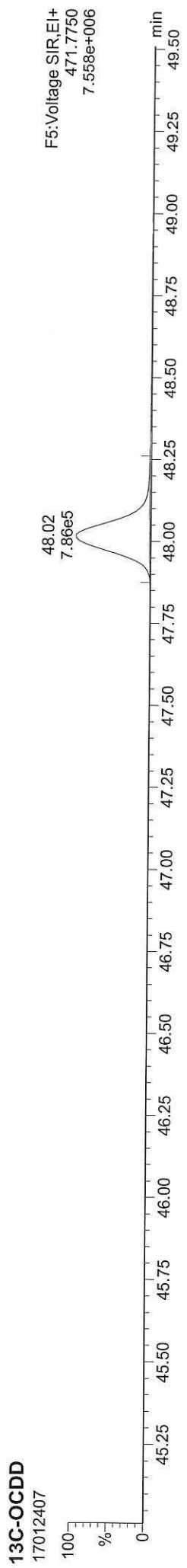
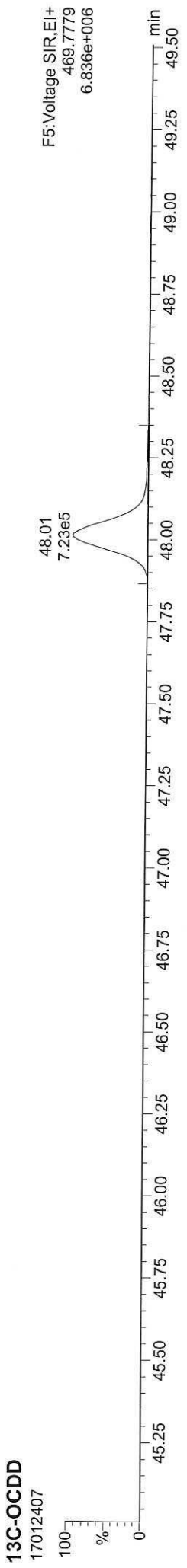
Total-heptafurans



FUNCTION4 NCDPE



ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk



Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

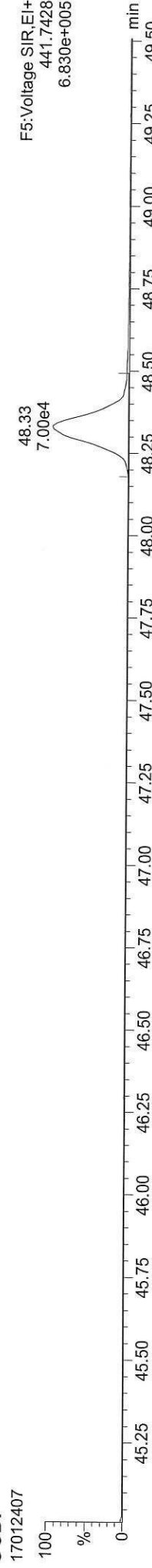
Printed: Wednesday, January 25, 2017 09:38:19 Pacific Standard Time

ID: CS2, Name: 17012407, Date: 24-Jan-2017, Time: 18:24:29, Conditions: AUTOSPEC01, User: pk

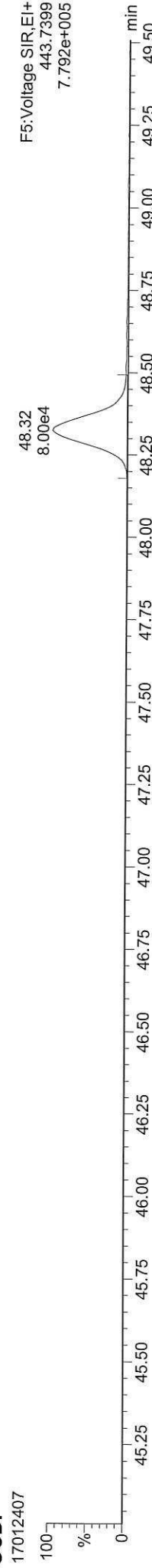
37CL-2378-TCDD



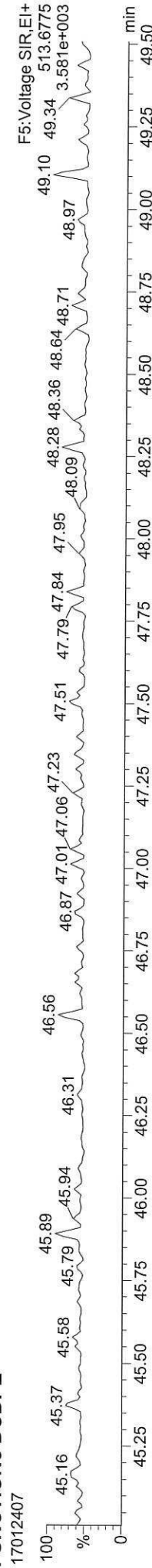
OCDF



OCDF



FUNCTION5 DCDPE



Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:21 Pacific Standard Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170112.mdb 12 Jan 2017 14:01:03

Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124\CAL.cdb 25 Jan 2017 09:33:34

ID: CS3, Name: 17012408, Date: 24-Jan-2017, Time: 19:17:52, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF	26.526	1.001	9.55e4	1.23e5	0.924	0.777	0.770	1067	1962	1.37e6	1.75e6	1283.2	NO	10.229
12378-PeCDF	30.689	1.001	5.33e5	3.42e5	0.954	1.558	1.550	2087	2929	7.97e6	5.11e6	3819.3	NO	48.509
23478-PeCDF	32.037	1.001	5.71e5	3.71e5	0.966	1.538	1.550	2087	2929	8.58e6	5.52e6	4112.4	NO	50.590
123478-HxCDF	35.731	1.001	4.49e5	3.68e5	1.141	1.220	1.240	3384	3436	6.83e6	5.59e6	2019.0	NO	50.416
234678-HxCDF	36.827	1.001	4.23e5	3.46e5	1.181	1.225	1.240	3384	3436	6.21e6	5.02e6	1835.6	NO	49.387
123678-HxCDF	35.885	1.001	4.58e5	3.77e5	1.089	1.215	1.240	3384	3436	6.56e6	5.47e6	1936.9	NO	50.779
123789-HxCDF	37.934	1.000	3.27e5	2.61e5	1.110	1.255	1.240	3384	3436	4.94e6	4.01e6	1458.4	NO	49.086
1234678-HpCDF	40.050	1.001	3.56e5	3.45e5	1.267	1.033	1.050	3197	2422	5.05e6	4.91e6	1580.8	NO	49.048
1234789-HpCDF	42.834	1.001	2.32e5	2.29e5	1.295	1.014	1.050	3197	2422	2.85e6	2.79e6	892.6	NO	48.686
OCDF	48.315	1.007	3.05e5	3.40e5	1.067	0.896	0.890	1286	1300	2.94e6	3.24e6	2286.4	NO	98.847
2378-TCDD	27.169	1.001	6.91e4	8.46e4	1.150	0.817	0.770	1036	1674	9.89e5	1.23e6	955.2	NO	10.061
12378-PeCDD	32.289	1.001	3.34e5	2.18e5	1.017	1.533	1.550	2687	1783	4.96e6	3.27e6	1847.7	NO	48.414
123478-HxCDD	36.959	1.001	3.00e5	2.42e5	1.017	1.241	1.240	2176	2495	4.53e6	3.66e6	2081.8	NO	49.524
123678-HxCDD	37.090	1.001	3.08e5	2.49e5	0.964	1.238	1.240	2176	2495	4.52e6	3.65e6	2079.1	NO	51.145
123789-HxCDD	37.507	1.012	2.88e5	2.30e5	0.948	1.252	1.240	2176	2495	4.44e6	3.53e6	2038.7	NO	49.609
1234678-HpCDD	41.913	1.001	2.26e5	2.14e5	1.051	1.056	1.050	1873	1816	2.91e6	2.75e6	1556.0	NO	49.468
OCDD	48.019	1.000	2.94e5	3.23e5	1.030	0.910	0.890	1990	1453	2.82e6	3.16e6	1415.2	NO	97.979
13C-2378-TCDF	26.497	1.006	1.01e6	1.30e6	1.515	0.776	0.770	6152	2732	1.43e7	1.86e7	2325.7	NO	96.731
13C-12378-PeCDF	30.667	1.165	1.16e6	7.30e5	1.276	1.592	1.550	2567	2401	1.70e7	1.08e7	6618.1	NO	94.073
13C-23478-PeCDF	32.015	1.216	1.17e6	7.53e5	1.257	1.559	1.550	2567	2401	1.79e7	1.15e7	6965.4	NO	97.310
13C-123478-HxCDF	35.709	0.952	4.82e5	9.39e5	1.431	0.513	0.510	2940	3412	7.36e6	1.42e7	2503.8	NO	101.795
13C-123678-HxCDF	35.863	0.956	5.16e5	9.95e5	1.552	0.519	0.510	2940	3412	7.50e6	1.44e7	2572.6	NO	99.810
13C-234678-HxCDF	36.806	0.982	4.51e5	8.67e5	1.349	0.520	0.510	2940	3412	6.81e6	1.29e7	2314.5	NO	100.213
13C-123789-HxCDF	37.923	1.011	3.69e5	7.10e5	1.111	0.521	0.510	2940	3412	5.58e6	1.10e7	1899.0	NO	99.587
13C-1234678-HpCDF	40.028	1.068	3.51e5	7.78e5	1.160	0.451	0.440	1982	2815	5.04e6	1.11e7	2542.1	NO	99.820
13C-1234789-HpCDF	42.812	1.142	2.28e5	5.02e5	0.758	0.455	0.440	1982	2815	2.82e6	6.11e6	1420.2	NO	98.813
13C-1234-TCDD	26.332	0.000	6.96e5	8.80e5	1.000	0.791	0.770	2672	1343	1.04e7	1.32e7	3903.8	NO	100.000
13C-2378-TCDD	27.139	1.031	5.80e5	7.49e5	0.872	0.775	0.770	2672	1343	8.42e6	1.08e7	3152.5	NO	96.689
13C-2378-PeCDD	32.267	1.225	6.88e5	4.33e5	0.754	1.590	1.550	1274	1145	1.01e7	6.42e6	7916.9	NO	94.368
13C-123478-HxCDD	36.937	0.985	6.03e5	4.72e5	1.106	1.278	1.240	1836	1817	8.99e6	7.12e6	4899.0	NO	99.699
13C-123678-HxCDD	37.069	0.989	6.28e5	5.02e5	1.165	1.252	1.240	1836	1817	9.28e6	7.44e6	5054.3	NO	99.522
13C-1234678-HpCDD	41.891	1.117	4.40e5	4.08e5	0.872	1.080	1.050	2505	2007	5.59e6	5.33e6	2230.2	NO	99.705
13C-OCDD	48.001	1.280	5.79e5	6.45e5	0.655	0.897	0.890	1602	1965	5.57e6	6.11e6	3476.3	NO	191.464

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:21 Pacific Standard Time

ID: CS3, Name: 17012408, Date: 24-Jan-2017, Time: 19:17:52, Conditions: AUTOSPEC01, User: pk

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
13C-123789-HxCDD	37.496	0.000	5.46e5	4.29e5	1.000	1.272	1.240	1836	1817	8.26e6	6.52e6	4502.1	NO	100.000
Total-tetrafurans			3.25e5	0.924				1067		4.69e6				35.042
Total-penta1			7.83e5					628		1.12e7				73.657
Total-pentafurans			1.72e6	0.960				2087		2.53e7				153.924
Total-hexafurans			2.14e6	1.130				3384		3.19e7				257.486
Total-heptafurans			5.89e5	1.281				3197		7.93e6				97.882
Total-Furans			5.86e6	1.100				1067		8.39e7				716.838
Total-tetra-dioxins			3.78e5	1.150				1036		5.03e6				55.541
Total-penta-dioxins			1.37e6	1.017				2687		1.71e7				197.572
Total-hexa-dioxins			1.25e6	0.977				2176		1.87e7				209.146
Total-hepta-dioxins			4.96e5	1.051				1873		6.67e6				108.750
Total-Dioxins			3.78e6	1.025				1036		5.04e7				668.987
Total-TEQ			9.65e6					1036		1.34e8				1385.826
37CL-2378-TCDD	27.169	1.032	1.58e5	1.073				1618		2.22e6		1374.1		9.330
FUNCTION1 PFK			9.91e5					466203		1.82e7				
FUNCTION2 PFK			3.34e4					124756		1.40e6				0.000
FUNCTION3 PFK			5.31e7					316006		4.26e8				0.000
FUNCTION4 PFK			2.49e5					277303		7.61e6				
FUNCTION5 PFK			0.00e0					209524		0.00e0				
FUNCTION1 HXCDPE			9.33e1					375		1.96e3				0.000
FUNCTION1 HPCDPE			1.08e2					585		2.57e3				0.000
FUNCTION2 HPCDPE			4.89e2					826		1.19e4				0.000
FUNCTION3 OCDPE			0.00e0					313		0.00e0				
FUNCTION4 NCDPE			0.00e0					450		0.00e0				
FUNCTION5 DCDPE			0.00e0					382		0.00e0				

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time
Printed: Wednesday, January 25, 2017 09:38:21 Pacific Standard Time

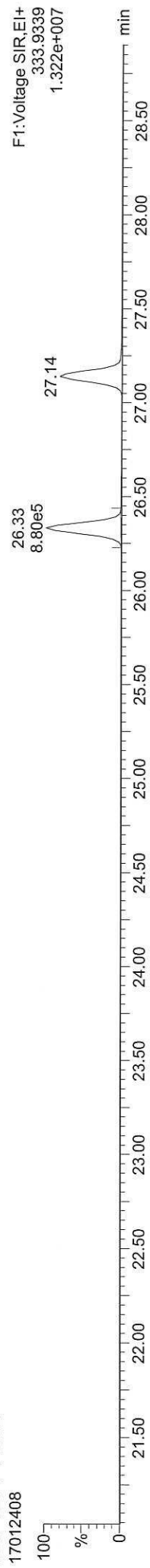
Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170112.mdb 12 Jan 2017 14:01:03
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170124\CAL.cdb 25 Jan 2017 09:33:34

ID: CS3, Name: 17012408, Date: 24-Jan-2017, Time: 19:17:52, Conditions: AUTOSPEC01, User: pk

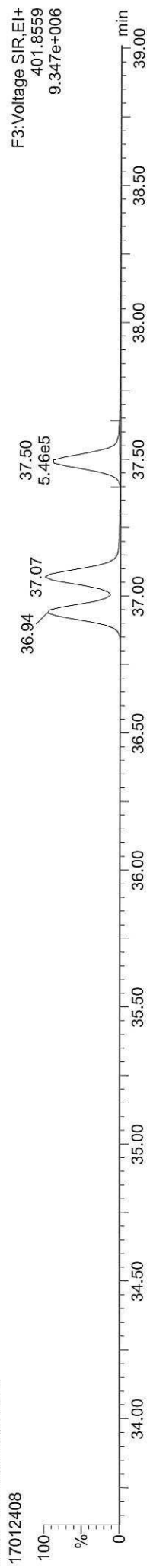
13C-1234-TCDD



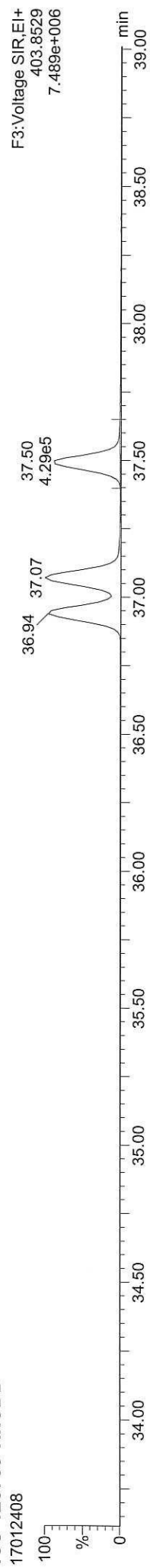
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13C-123789-HxCDD



13C-123789-HxCDD



Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:21 Pacific Standard Time

ID: CS3, Name: 17012408, Date: 24-Jan-2017, Time: 19:17:52, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD

17012408



13C-2378-TCDD

17012408



Total-tetradioxins

17012408



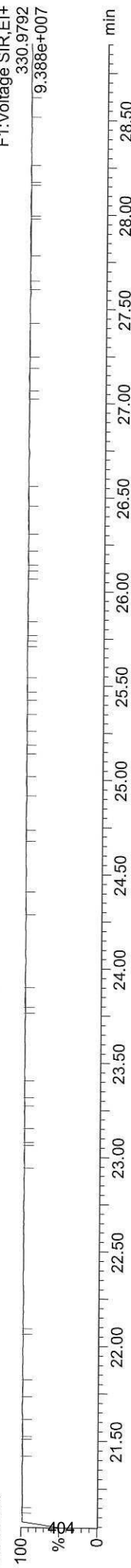
Total-tetradioxins

17012408



FUNCTION1 PFK

17012408



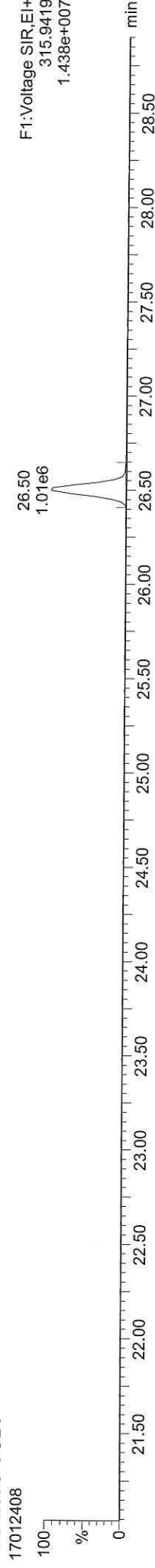
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Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:21 Pacific Standard Time

ID: CS3, Name: 17012408, Date: 24-Jan-2017, Time: 19:17:52, Conditions: AUTOSPEC01, User: pk

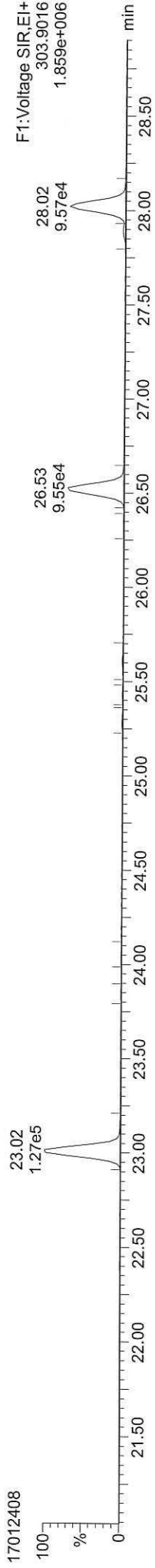
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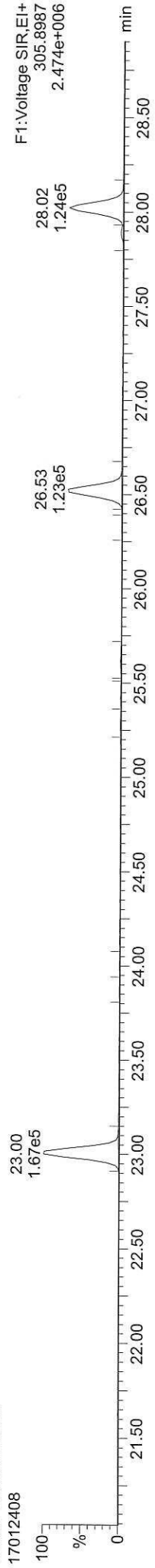
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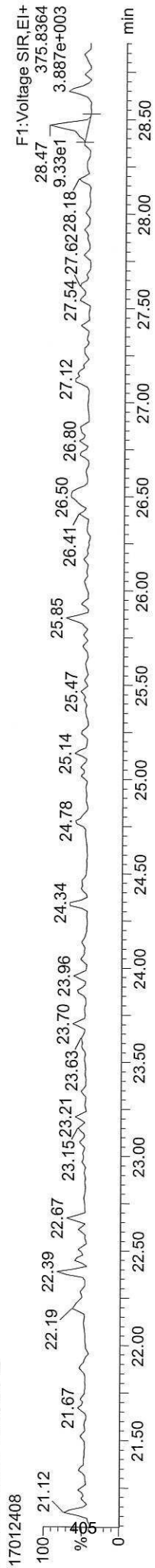
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDFE



Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

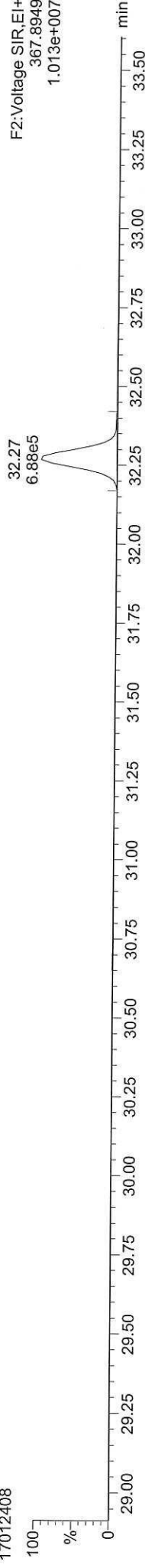
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:21 Pacific Standard Time

ID: CS3, Name: 17012408, Date: 24-Jan-2017, Time: 19:17:52, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD

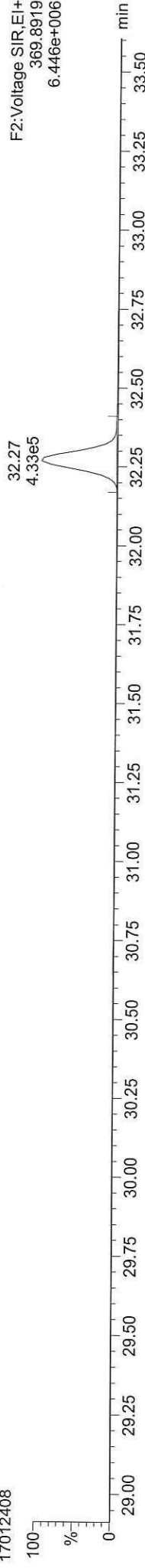
17012408



F2: Voltage SIR, EI+
367.8949
1.013e+007

13C-12378-PeCDD

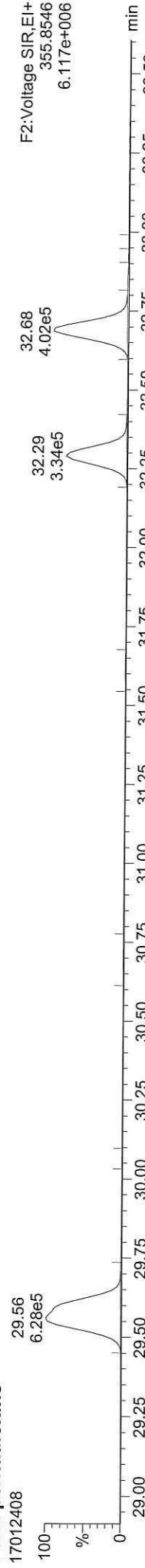
17012408



F2: Voltage SIR, EI+
369.8919
6.446e+006

Total-pentadioxins

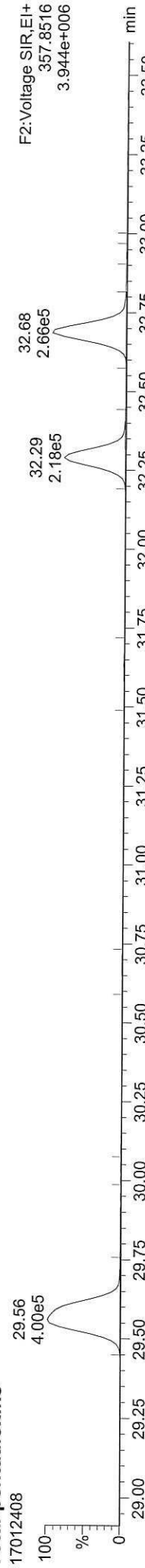
17012408



F2: Voltage SIR, EI+
355.8546
6.117e+006

Total-pentadioxins

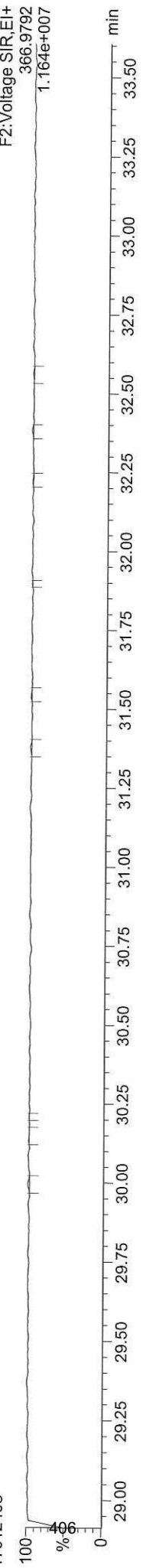
17012408



F2: Voltage SIR, EI+
357.8516
3.944e+006

FUNCTION2 PFK

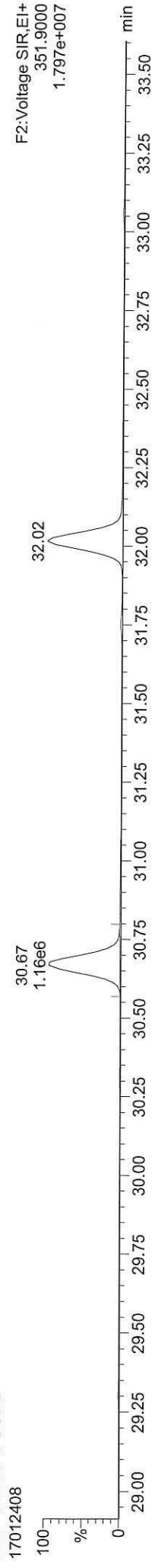
17012408



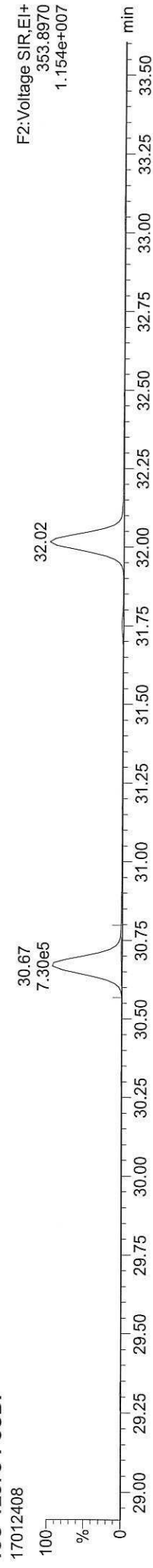
F2: Voltage SIR, EI+
366.9792
1.164e+007

ID: CS3, Name: 17012408, Date: 24-Jan-2017, Time: 19:17:52, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDF



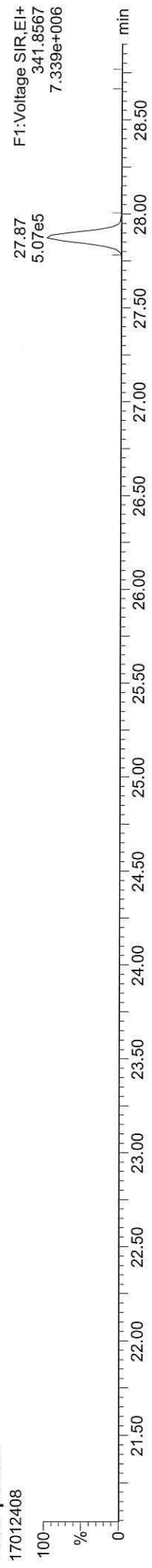
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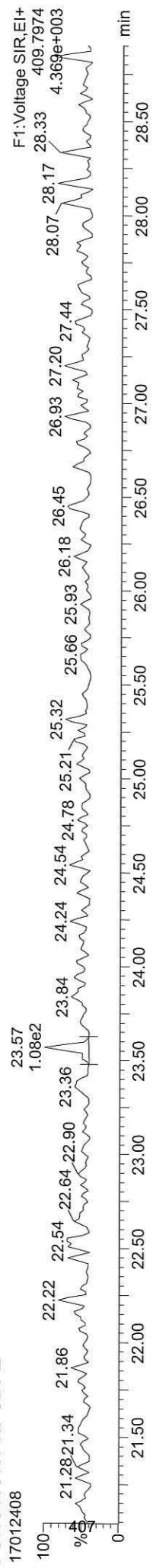
Total-penta1



Total-penta1



FUNCTION1 HPCDPE



Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

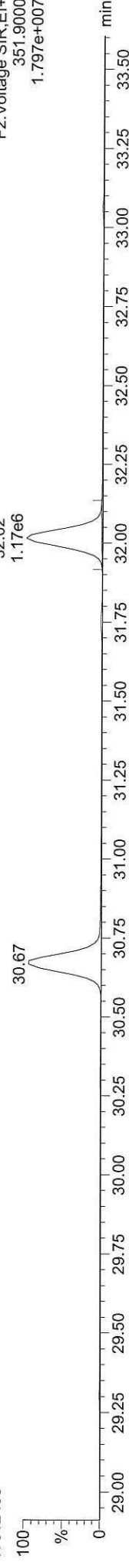
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:21 Pacific Standard Time

ID: CS3, Name: 17012408, Date: 24-Jan-2017, Time: 19:17:52, Conditions: AUTOSPEC01, User: pk

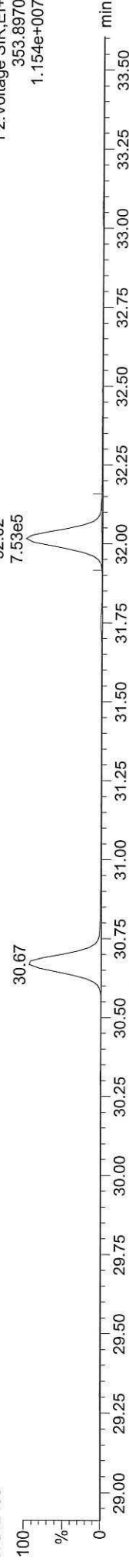
13C-23478-PeCDF

17012408



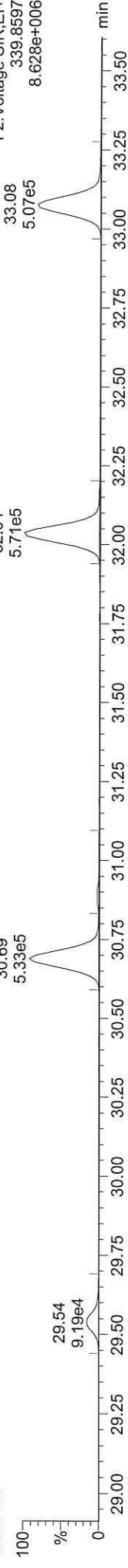
13C-23478-PeCDF

17012408



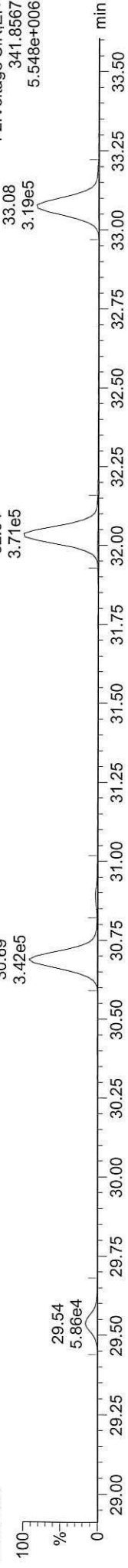
Total-pentafurans

17012408



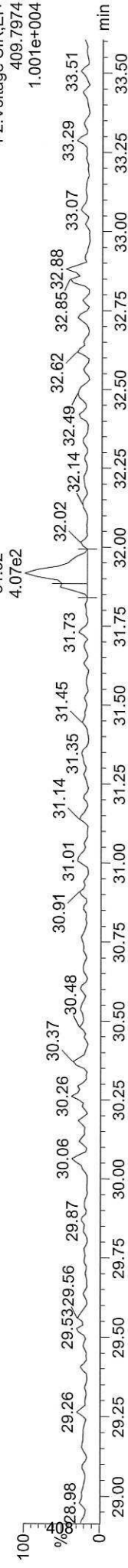
Total-pentafurans

17012408



FUNCTION2 HPCDPE

17012408



Dataset: C:\MassLynx\Dioxin.pro\170124\CAL.qld

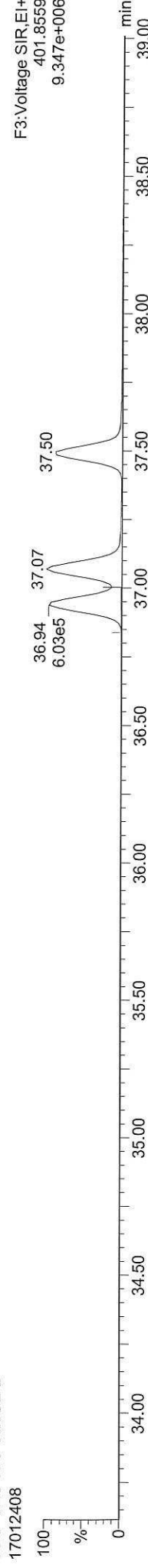
Last Altered: Wednesday, January 25, 2017 09:33:34 Pacific Standard Time

Printed: Wednesday, January 25, 2017 09:38:21 Pacific Standard Time

ID: CS3, Name: 17012408, Date: 24-Jan-2017, Time: 19:17:52, Conditions: AUTOSPEC01, User: pk

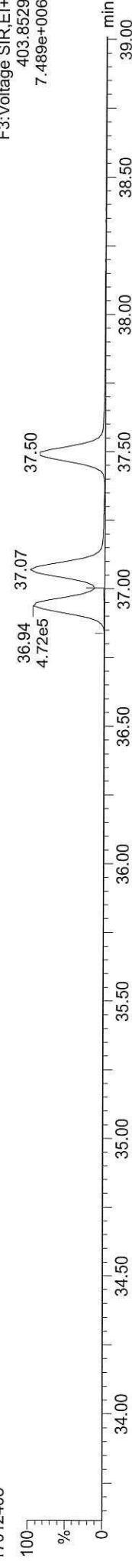
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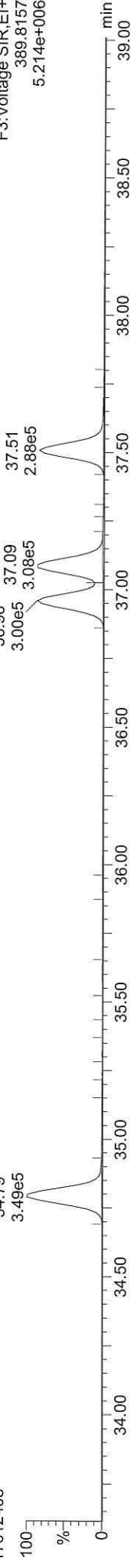
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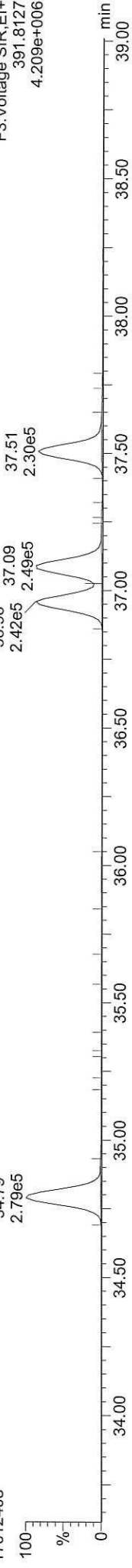
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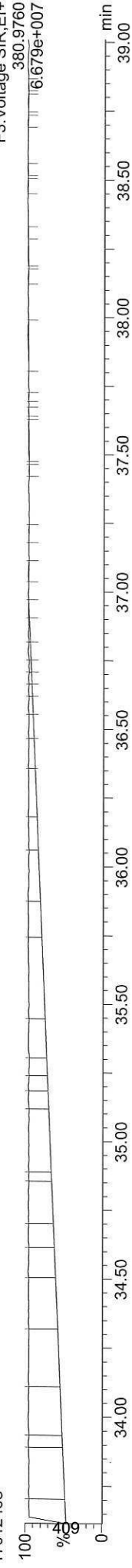
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FUNCTION3 PFK

17012408



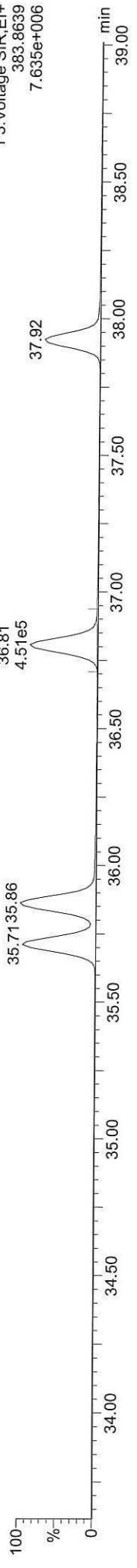
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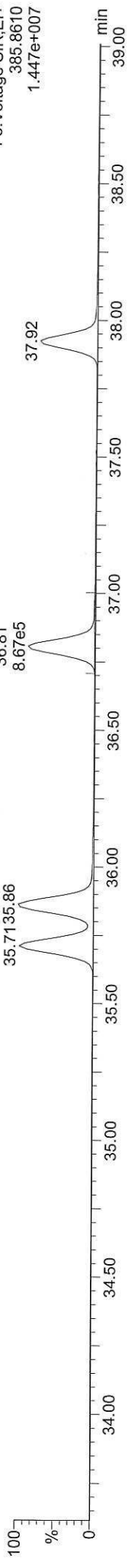
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13C-234678-HxCDF
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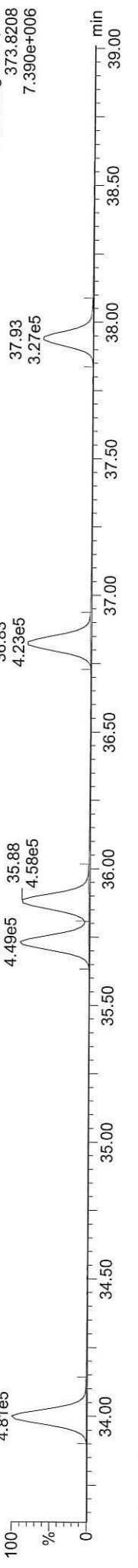


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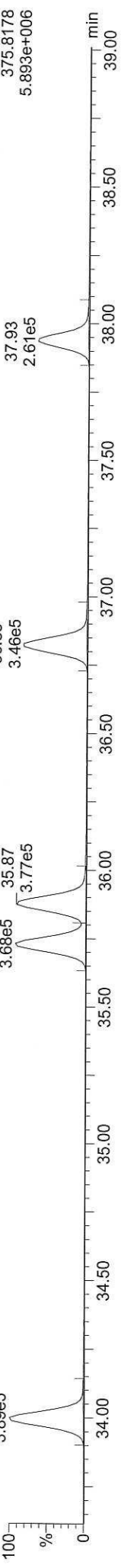
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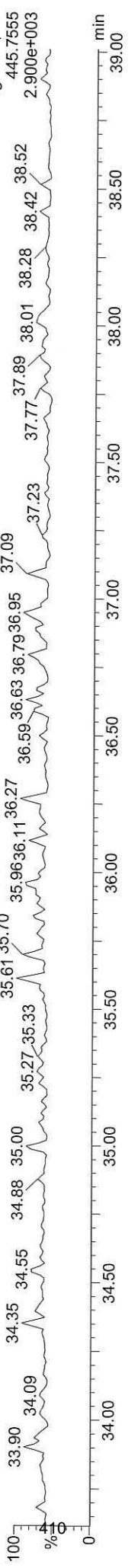
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FUNCTION3 OCDFE

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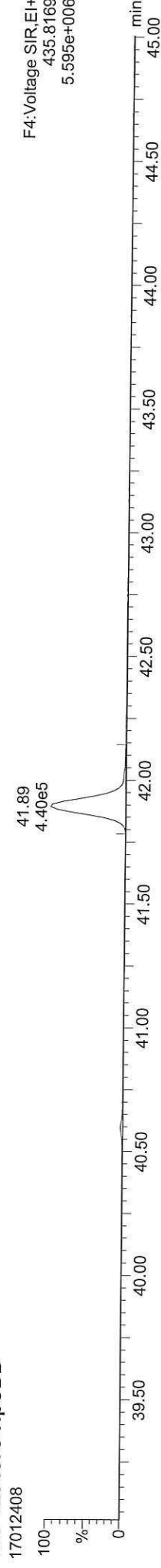
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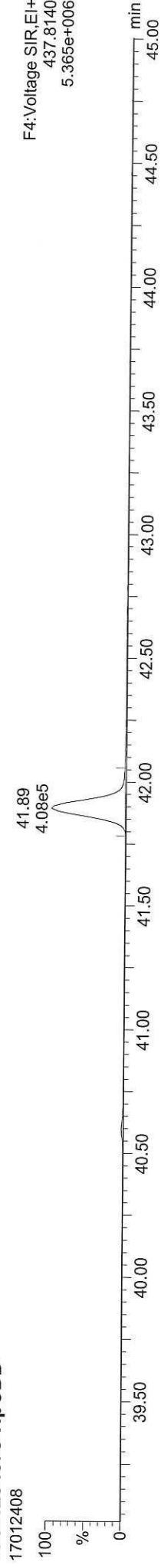
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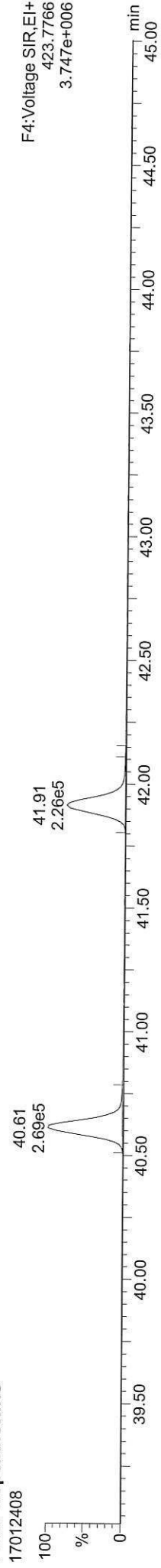
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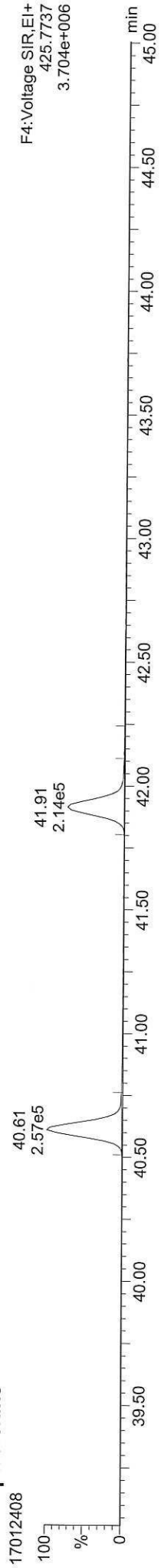
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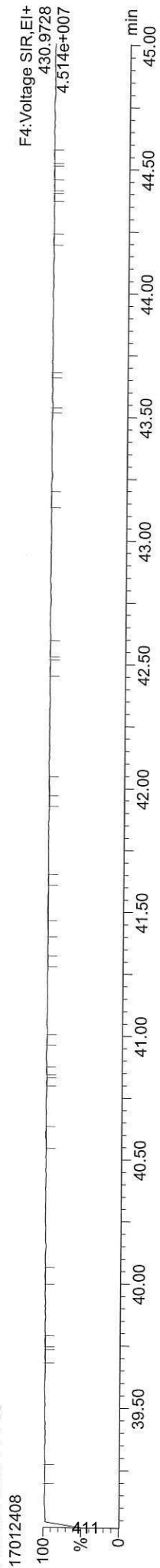
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Total-heptadioxins



FUNCTION4 PFK



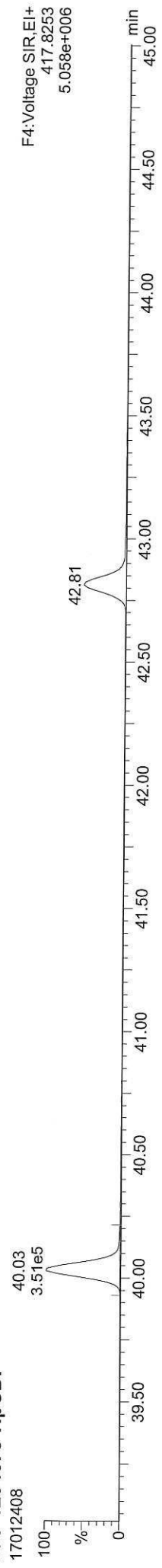
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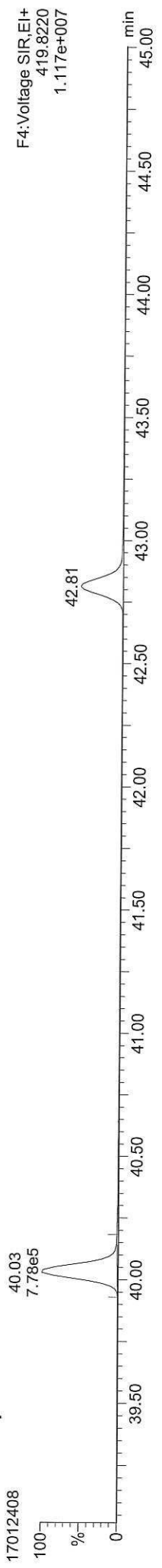
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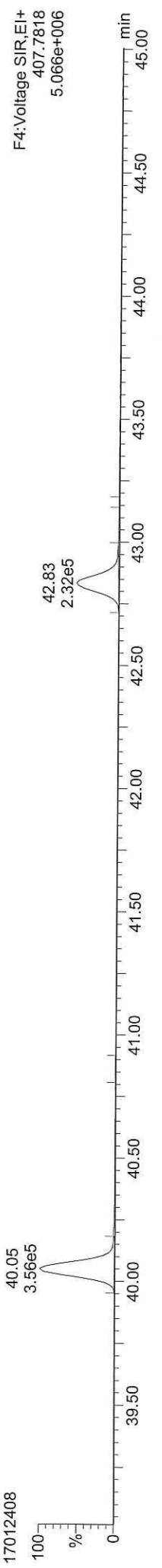
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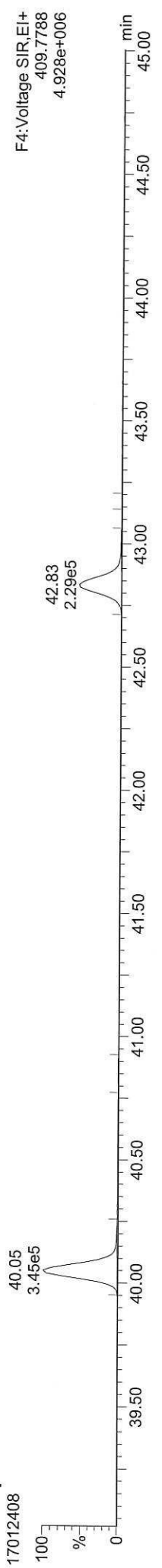
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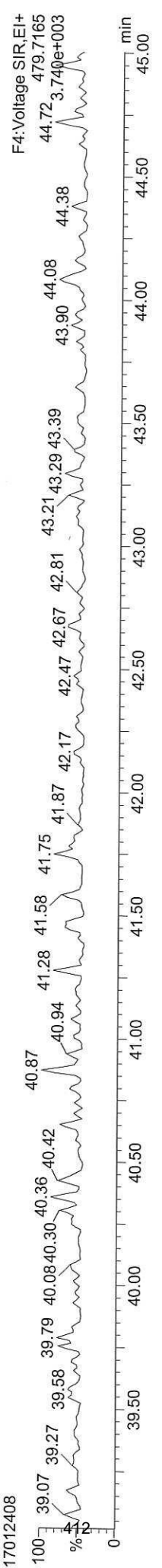
Total-heptafulrans



Total-heptafulrans



FUNCTION4 NCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
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