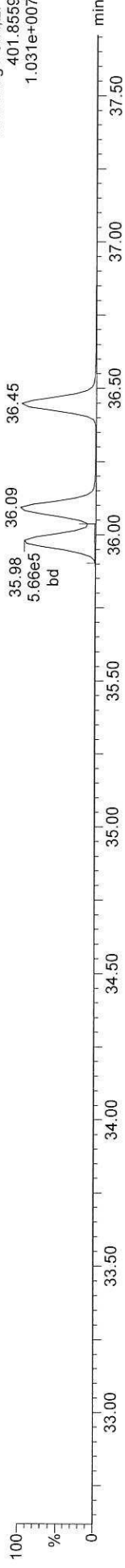


Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 11:13:54 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 12:21:37 Pacific Daylight Time

ID: CS3, Name: 18082008, Date: 20-Aug-2018, Time: 19:12:37, Conditions: AUTOSPEC01, User: pk

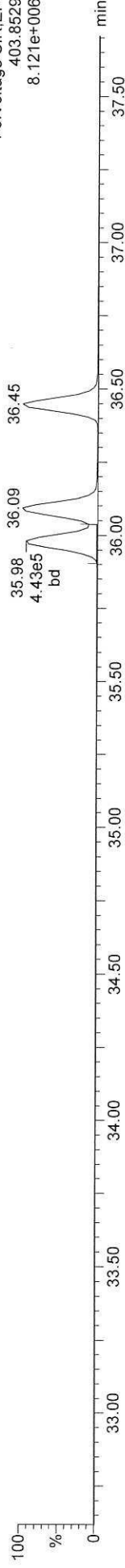
13C-123478-HxCDD

18082008



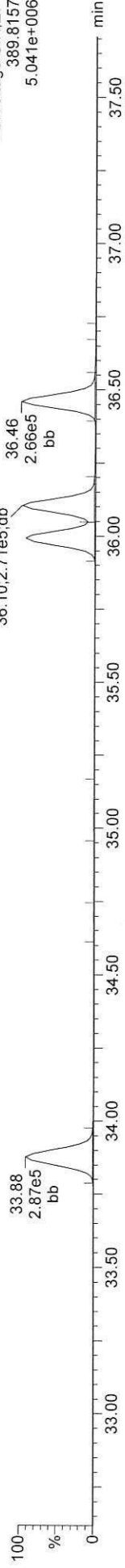
13C-123478-HxCDD

18082008



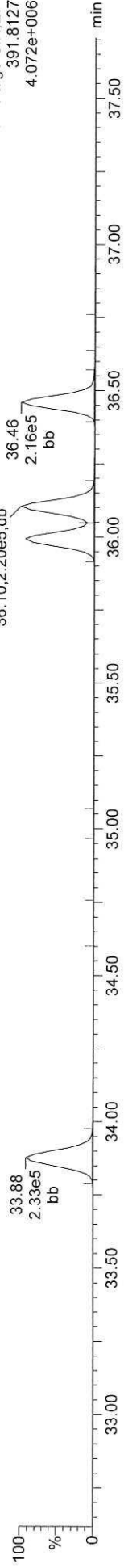
Total-hexadioxins

18082008



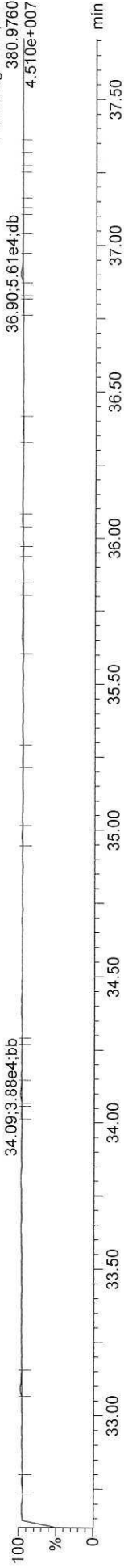
Total-hexadioxins

18082008



FUNCTION3 PFK

18082008

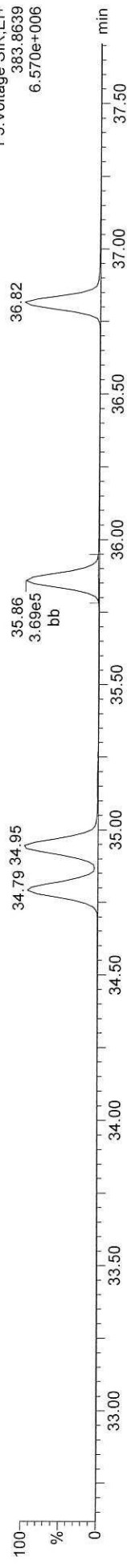


Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 11:13:54 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 12:21:37 Pacific Daylight Time

ID: CS3, Name: 18082008, Date: 20-Aug-2018, Time: 19:12:37, Conditions: AUTOSPEC01, User: pk

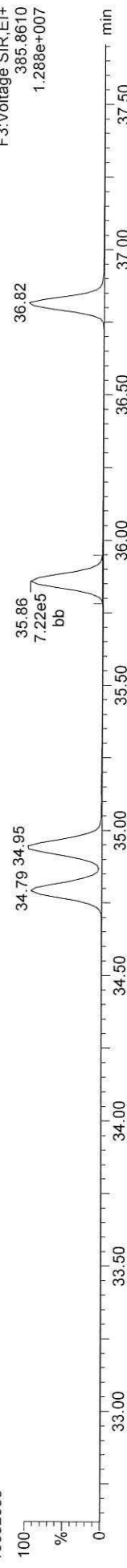
13C-234678-HxCDF

18082008



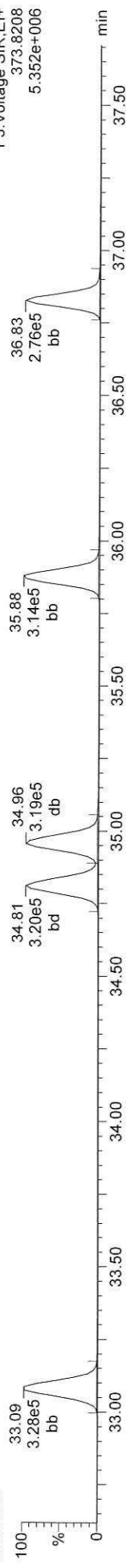
13C-234678-HxCDF

18082008



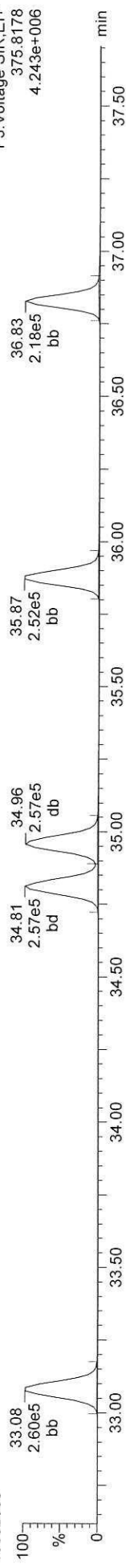
Total-hexafurans

18082008



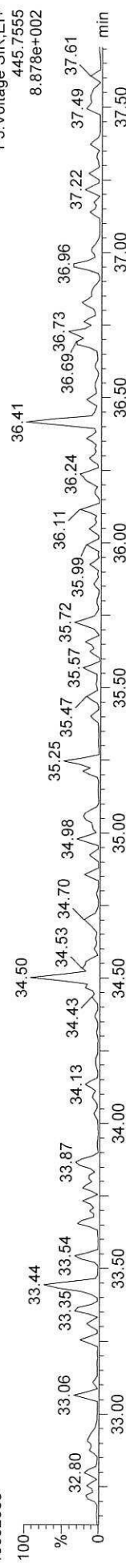
Total-hexafurans

18082008



FUNCTION3 OCDPE

18082008



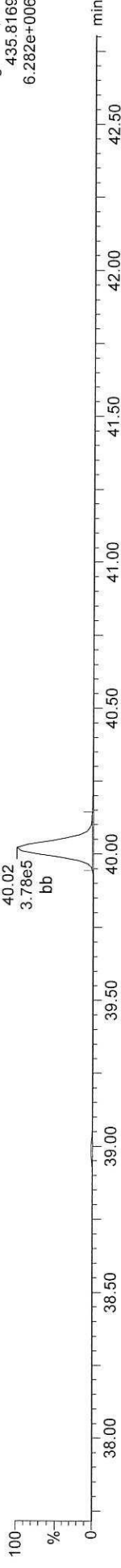
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 11:13:54 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 12:21:37 Pacific Daylight Time

ID: CS3, Name: 18082008, Date: 20-Aug-2018, Time: 19:12:37, Conditions: AUTOSPEC01, User: pk

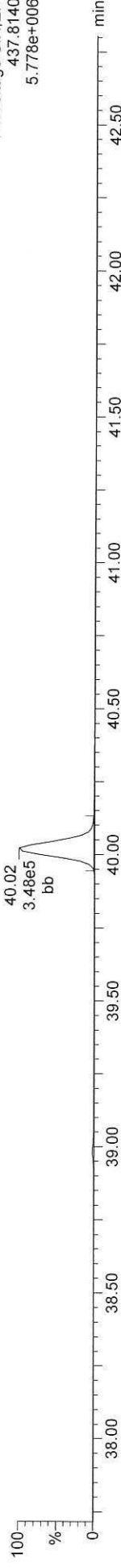
13C-1234678-HpCDD

18082008



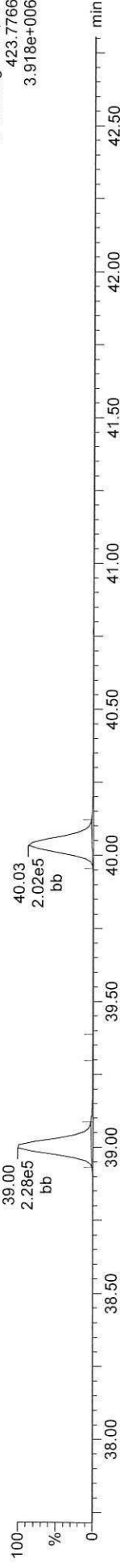
13C-1234678-HpCDD

18082008



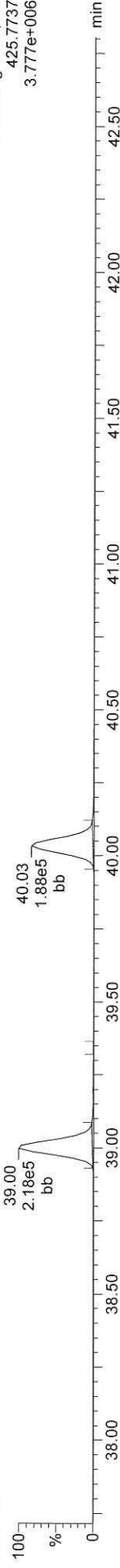
Total-heptadioxins

18082008



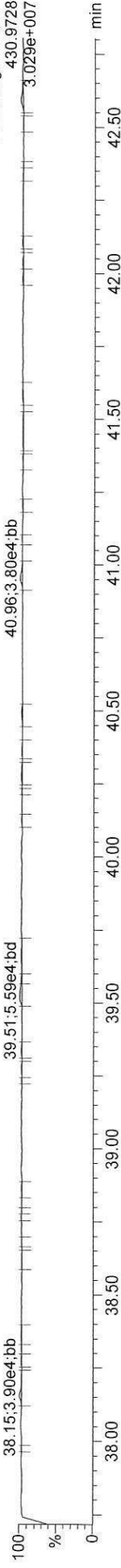
Total-heptadioxins

18082008



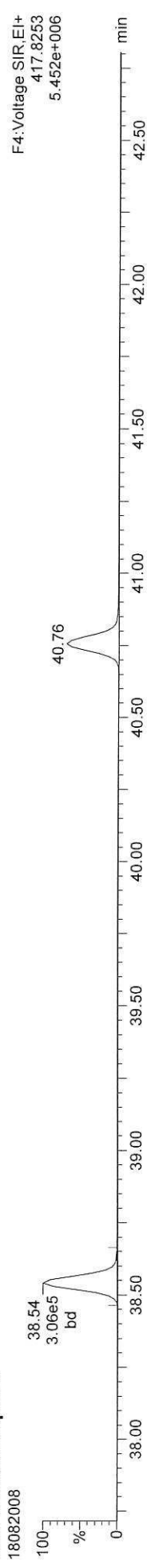
FUNCTION4 PFK

18082008

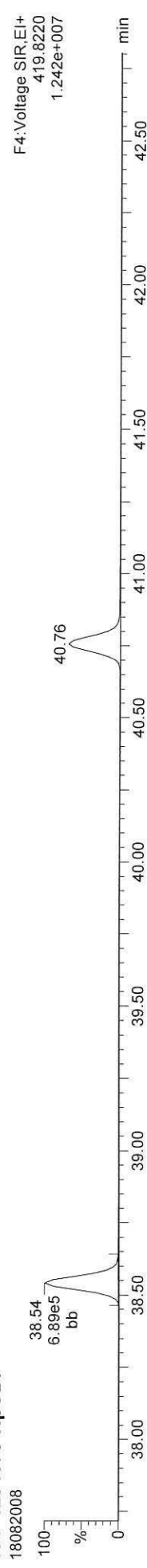


ID: CS3, Name: 18082008, Date: 20-Aug-2018, Time: 19:12:37, Conditions: AUTOSPEC01, User: pk

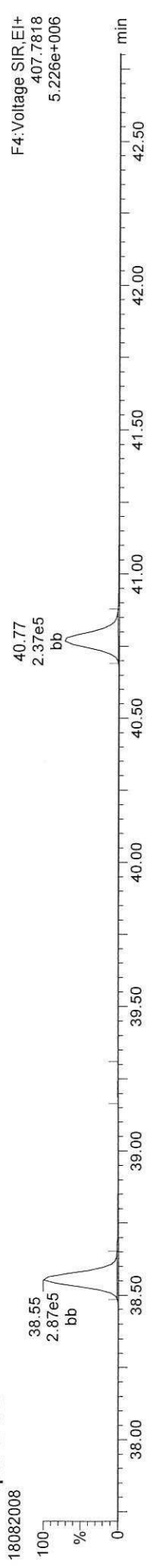
13C-1234678-HpCDF



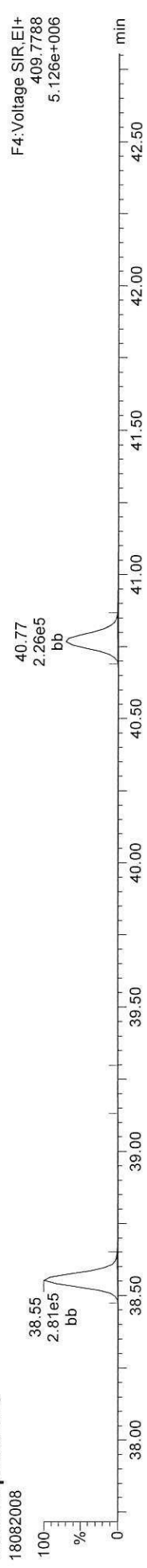
13C-1234678-HpCDF



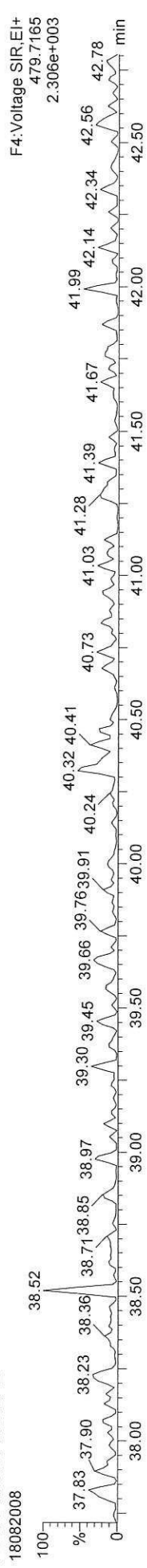
Total-heptafulurans



Total-heptafulurans



FUNCTION4 NCDPE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 11:13:54 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 12:21:37 Pacific Daylight Time

ID: CS3, Name: 18082008, Date: 20-Aug-2018, Time: 19:12:37, Conditions: AUTOSPEC01, User: pk

13C-OCDD

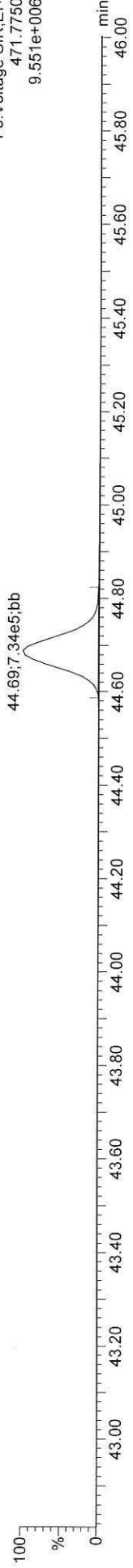
18082008



F5:Voltage SIR,EI+
469.7779
8.755e+006

13C-OCDD

18082008



F5:Voltage SIR,EI+
471.7750
9.551e+006

OCDD

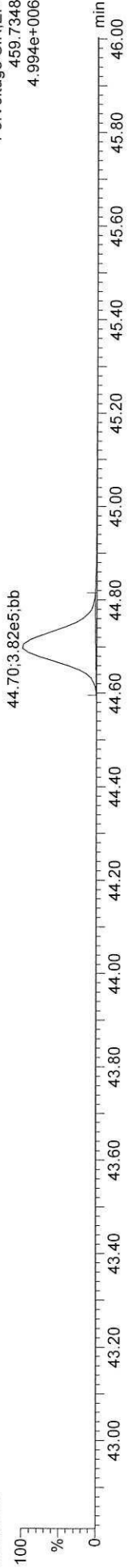
18082008



F5:Voltage SIR,EI+
457.7377
4.425e+006

OCDD

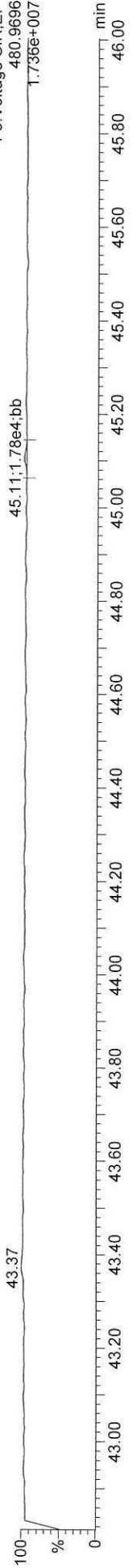
18082008



F5:Voltage SIR,EI+
459.7348
4.994e+006

FUNCTION5 PFK

18082008



F5:Voltage SIR,EI+
480.9696
1.736e+007

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 11:13:54 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 12:21:37 Pacific Daylight Time

ID: CS3, Name: 18082008, Date: 20-Aug-2018, Time: 19:12:37, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD

18082008



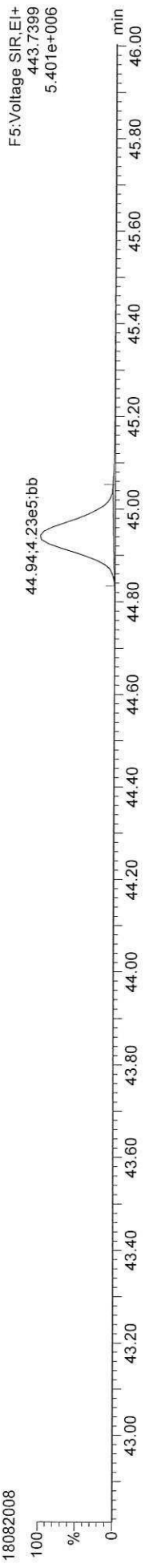
OCDF

18082008



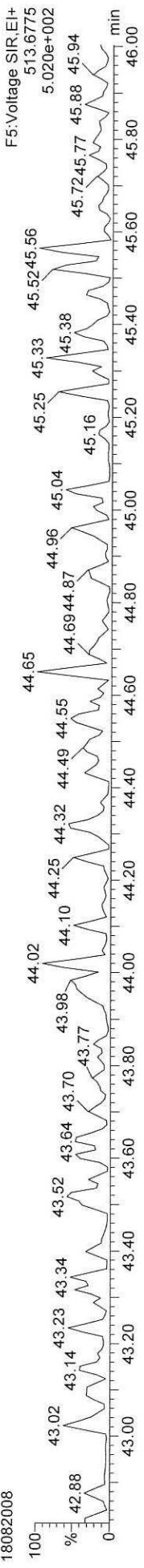
OCDF

18082008



FUNCTION5 DCDPE

18082008



Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld

Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time

Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 17 Aug 2018 15:31:25
 Calibration: 21 Aug 2018 10:16:22

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	SIN	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.618	1.001	2.283e5	3.112e5	0.834	0.734	0.770	766	725	3.58e6	4.90e6	4670.5	YES	NO	bb	bb	42.396
12378-PeCDF	29.781	1.001	1.475e6	8.771e5	0.852	1.681	1.550	1572	1498	2.40e7	1.43e7	15257.9	YES	NO	bb	bb	217.238
23478-PeCDF	31.128	1.001	1.633e6	9.817e5	0.944	1.663	1.550	1572	1498	2.63e7	1.60e7	16761.2	YES	NO	bb	bb	218.749
123478-HxCDF	34.812	1.001	1.152e6	9.254e5	0.963	1.244	1.240	2279	1440	1.78e7	1.44e7	7813.6	YES	NO	bd	bd	220.717
234678-HxCDF	35.869	1.000	1.142e6	9.174e5	0.991	1.245	1.240	2279	1440	1.97e7	1.58e7	8625.3	YES	NO	bb	bb	219.844
123678-HxCDF	34.957	1.001	1.165e6	9.417e5	0.917	1.237	1.240	2279	1440	1.82e7	1.46e7	7976.8	YES	NO	db	db	221.461
123789-HxCDF	36.827	1.001	1.008e6	8.106e5	0.938	1.244	1.240	2279	1440	1.91e7	1.53e7	8385.5	YES	NO	bb	bb	218.963
1234678-HpCDF	38.552	1.000	1.054e6	1.023e6	1.119	1.031	1.050	2529	2444	1.86e7	1.81e7	7365.7	YES	NO	bb	bb	214.895
1234789-HpCDF	40.767	1.000	8.895e5	8.633e5	1.162	1.030	1.050	2529	2444	1.39e7	1.35e7	5477.5	YES	NO	bb	bb	216.954
OCDF	44.943	1.006	1.541e6	1.620e6	1.145	0.951	0.890	2044	2758	1.97e7	2.06e7	9632.1	YES	NO	bb	bb	441.796
2378-TCDD	26.268	1.001	1.772e5	2.251e5	0.982	0.787	0.770	637	357	2.86e6	3.63e6	4498.9	YES	NO	bb	bb	42.887
12378-PeCDD	31.373	1.000	9.896e5	6.247e5	1.029	1.584	1.550	1205	833	1.61e7	1.02e7	13371.9	YES	NO	bb	bb	217.935
123478-HxCDD	35.992	1.001	9.565e5	7.730e5	0.921	1.237	1.240	1298	1146	1.64e7	1.33e7	12636.4	YES	NO	bd	bd	218.326
123678-HxCDD	36.103	1.001	9.650e5	7.837e5	0.904	1.231	1.240	1298	1146	1.69e7	1.38e7	13055.0	YES	NO	db	db	215.422
123789-HxCDD	36.459	1.010	9.664e5	7.824e5	0.918	1.235	1.240	1298	1146	1.79e7	1.44e7	13814.6	YES	NO	bb	bb	216.738
1234678-HpCDD	40.032	1.001	7.369e5	6.988e5	1.046	1.055	1.050	1214	1315	1.25e7	1.18e7	5929.2	YES	NO	bb	bb	215.852
OCDD	44.696	1.000	1.243e6	1.397e6	0.984	0.890	0.890	1260	1624	1.66e7	1.87e7	13205.1	YES	NO	bb	bb	429.271
13C-2378-TCDF	25.603	1.007	6.711e5	8.551e5	1.847	0.785	0.770	3686	1506	1.07e7	1.37e7	2910.7	YES	NO	bb	bb	100.822
13C-12378-PeCDF	29.759	1.171	7.776e5	4.926e5	1.558	1.579	1.550	1335	1254	1.29e7	8.20e6	9643.1	YES	NO	bb	bb	99.477
13C-23478-PeCDF	31.105	1.224	7.722e5	4.937e5	1.544	1.564	1.550	1335	1254	1.28e7	8.21e6	9595.7	YES	NO	bb	bb	100.037
13C-123478-HxCDF	34.790	0.955	3.232e5	6.537e5	1.152	0.495	0.510	1526	1616	5.17e6	1.02e7	3387.4	YES	NO	bd	bd	100.482
13C-123678-HxCDF	34.935	0.959	3.454e5	6.915e5	1.225	0.500	0.510	1526	1616	5.42e6	1.08e7	3550.2	YES	NO	db	db	100.316
13C-234678-HxCDF	35.858	0.984	3.160e5	6.296e5	1.104	0.502	0.510	1526	1616	5.40e6	1.06e7	3536.2	YES	NO	bb	bb	101.555
13C-123789-HxCDF	36.805	1.010	2.983e5	5.878e5	1.046	0.507	0.510	1526	1616	5.59e6	1.10e7	3666.6	YES	NO	bb	bb	100.450
13C-1234678-HpCDF	38.541	1.057	2.624e5	6.010e5	1.004	0.437	0.440	1121	1612	4.66e6	1.04e7	4153.9	YES	NO	bb	bb	101.889
13C-1234789-HpCDF	40.756	1.118	2.119e5	4.833e5	0.799	0.438	0.440	1121	1612	3.30e6	7.39e6	2945.0	YES	NO	bb	bb	103.173
13C-1234-TCDD	25.422	0.000	3.544e5	4.653e5	1.000	0.762	0.770	1473	882	5.61e6	7.45e6	3805.4	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.238	1.032	4.129e5	5.424e5	1.171	0.761	0.770	1473	882	6.48e6	8.55e6	4396.7	YES	NO	bb	bb	99.512
13C-12378-PeCDD	31.361	1.234	4.493e5	2.707e5	0.886	1.660	1.550	845	552	7.32e6	4.42e6	8665.4	YES	NO	bb	bb	99.136
13C-123478-HxCDD	35.970	0.987	4.806e5	3.796e5	1.027	1.266	1.240	1228	822	8.56e6	6.75e6	6965.1	YES	NO	bd	bd	99.294
13C-123678-HxCDD	36.081	0.990	4.988e5	3.993e5	1.055	1.249	1.240	1228	822	8.59e6	6.94e6	6990.7	YES	NO	db	db	100.878
13C-1234678-HpCDD	40.010	1.098	3.296e5	3.059e5	0.749	1.077	1.050	1045	902	5.43e6	5.06e6	5200.4	YES	NO	bb	bb	100.577
13C-OCDD	44.678	1.226	5.962e5	6.538e5	0.725	0.912	0.890	1031	1743	7.87e6	8.74e6	7633.0	YES	NO	bb	bb	204.420

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
 Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
 Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

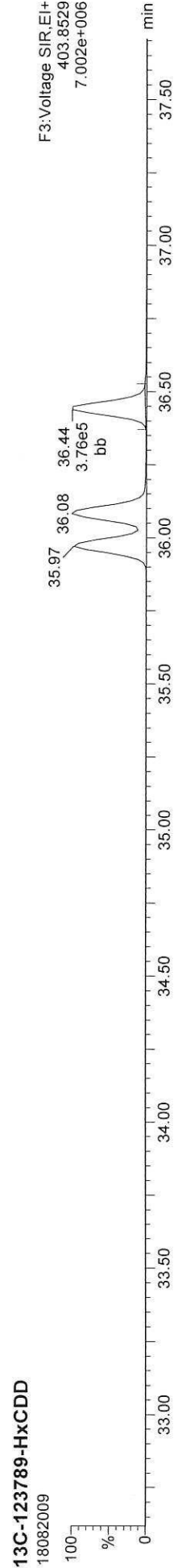
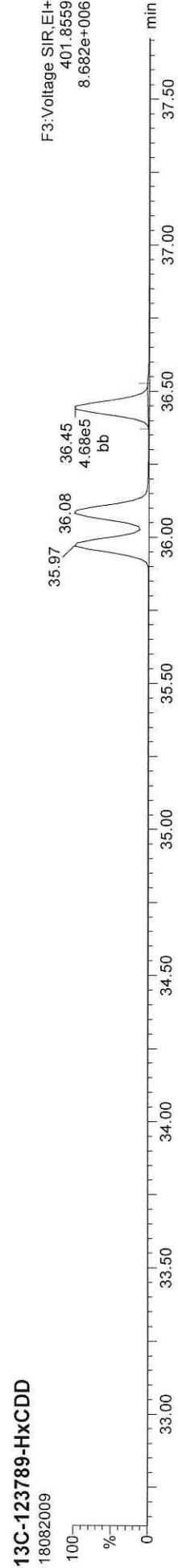
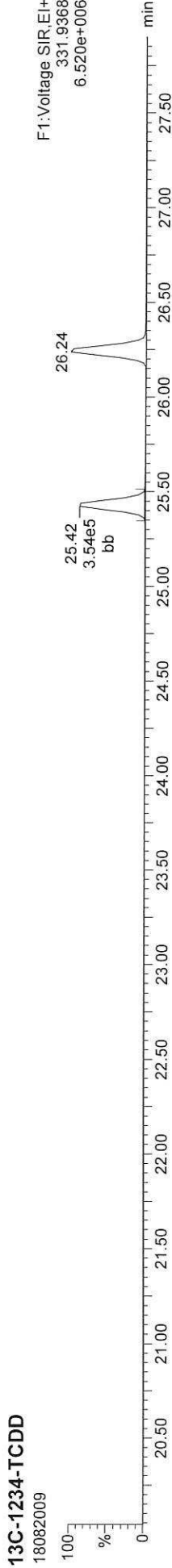
Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	SN 1	SNFlag	EMPC	Int.1	Int.2	pg
13C-123789-HxCDD	36.448	0.000	4.679e5	3.757e5	1.000	1.245	1.240	1228	822	8.49e6	6.86e6	6913.5	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.268	1.033	3.950e5	1.121				391		6.29e6		16085.6	YES		bb		42.999
1368-TCDF				1.020			0.770	766	725								
1289-TCDF				0.818			0.770	766	725								
13468-PECDF				1.163			1.550	304	490								
12389-PECDF	32.163	1.081	1.016e4	5.831e3	0.233	1.742	1.550	1572	1498	1.59e5	8.88e4	101.2	YES	NO	bb	bb	5.406
123468-HXCDF	33.076	0.951	5.373e2	3.107e2	0.351	1.729	1.240	2279	1440	8.43e3	4.61e3	3.7	YES	YES	bb	bb	0.248
1368-TCDD				1.026			0.770	637	357								
1289-TCDD				0.938			0.770	637	357								
12479-PECDD				1.807			1.550	1205	833								
12389-PECDD				0.663			1.550	1205	833								
124679-HXCDD				1.031			1.240	1298	1146								
1234679-HPCDD	38.997	0.975	4.658e3	5.088e3	0.314	0.915	1.050	2114	1315	7.66e4	8.45e4	36.2	YES	NO	bb	bb	4.889
Total-tetrafurans			2.322e5		0.891			766		3.64e6							43.049
Total-penta1			0.000e0					304		0.00e0							
Total-pentafurans			3.154e6		0.676			1572		5.11e7							448.032
Total-hexafurans			4.471e6		0.832			2279		7.48e7							882.102
Total-heptafurans			1.948e6		1.141			2529		3.25e7							432.705
Total-Furans			1.135e7		0.897			766		1.82e8							2247.684
Total-tetra-dioxins			1.816e5		0.982			637		2.92e6							43.885
Total-penta-dioxins			9.918e5		1.166			1205		1.61e7							218.345
Total-hexa-dioxins			2.888e6		0.944			1298		5.13e7							650.523
Total-hepta-dioxins			7.416e5		0.680			2114		1.26e7							220.742
Total-Dioxins			6.046e6		0.966			637		9.96e7							1562.765
Total-TEQ			1.739e7					637		2.81e8							3810.449
FUNCTION1 PFK			0.000e0					331738		0.00e0							0.000
FUNCTION2 PFK			8.628e4					199506		2.80e6							0.000
FUNCTION3 PFK			1.985e7					182809		1.53e8							
FUNCTION4 PFK			3.785e5					205826		9.60e6							
FUNCTION5 PFK			6.882e4					119234		2.89e6							
FUNCTION1 HXCDPE			0.000e0					293		0.00e0							
FUNCTION1 HPCDPE			0.000e0					377		0.00e0							
FUNCTION2 HPCDPE			1.333e3					352		2.30e4							0.000
FUNCTION3 OCDPE			0.000e0					157		0.00e0							
FUNCTION4 NCDPE			0.000e0					308		0.00e0							
FUNCTION5 DCDPE			0.000e0					204		0.00e0							

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 17 Aug 2018 15:31:25
Calibration: 21 Aug 2018 10:16:22

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD

18082009



F1: Voltage SIR, EI+
331.9368
6.520e+006

13C-2378-TCDD

18082009



F1: Voltage SIR, EI+
333.9339
8.607e+006

Total-tetradioxins

18082009



F1: Voltage SIR, EI+
319.8965
2.877e+006

Total-tetradioxins

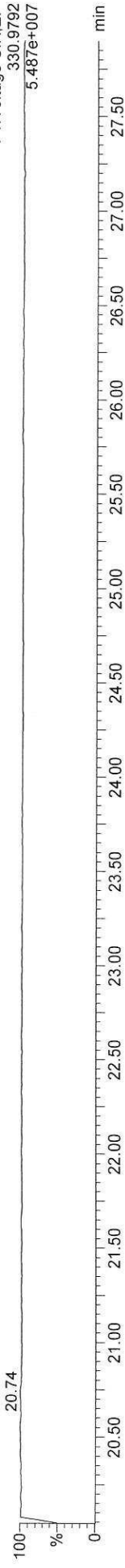
18082009



F1: Voltage SIR, EI+
321.8936
3.645e+006

FUNCTION1 PFK

18082009



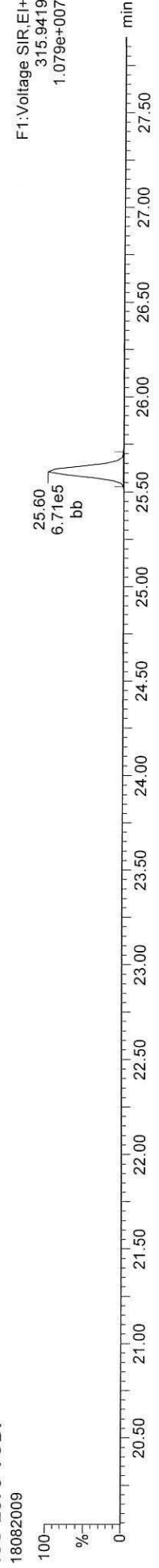
F1: Voltage SIR, EI+
330.9792
5.487e+007

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

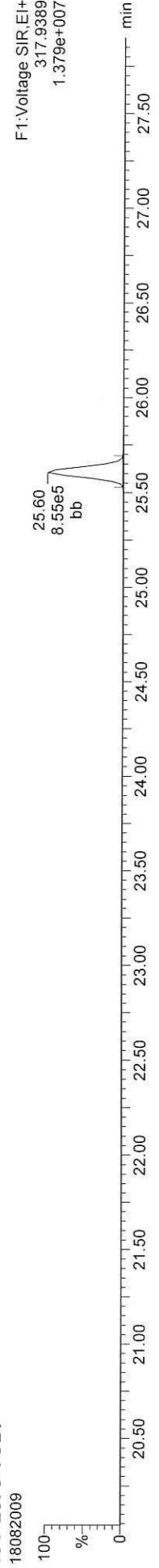
Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

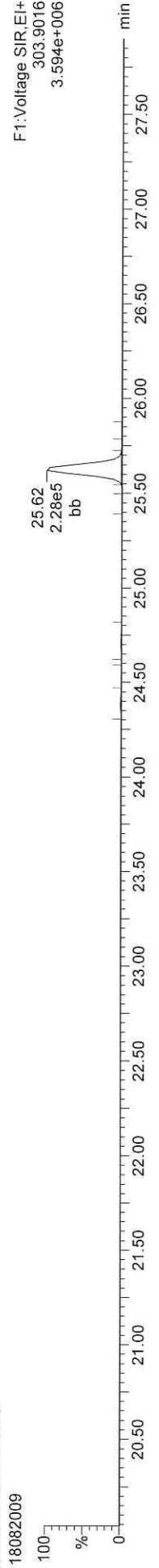
13C-2378-TCDF



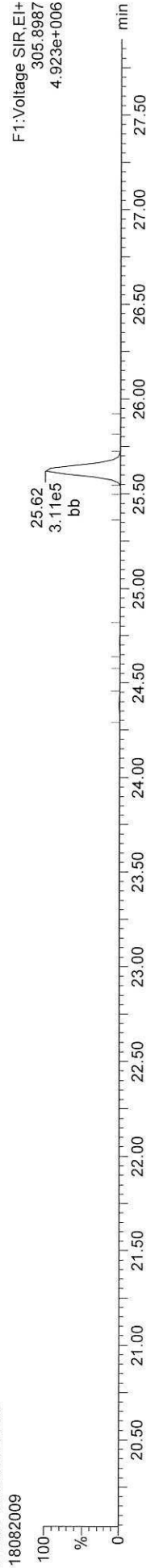
13C-2378-TCDF



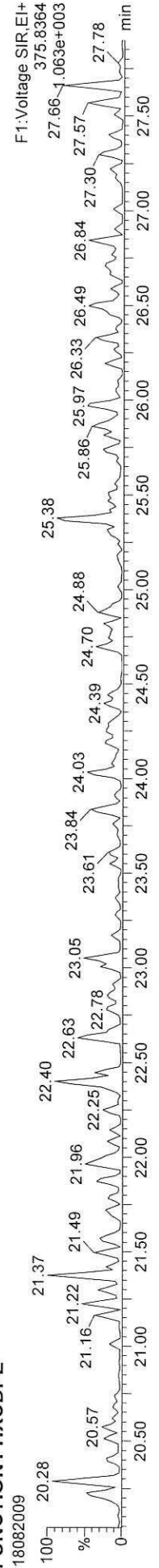
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDFE



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820\CI\H.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

13C-12378-PeCDD

18082009



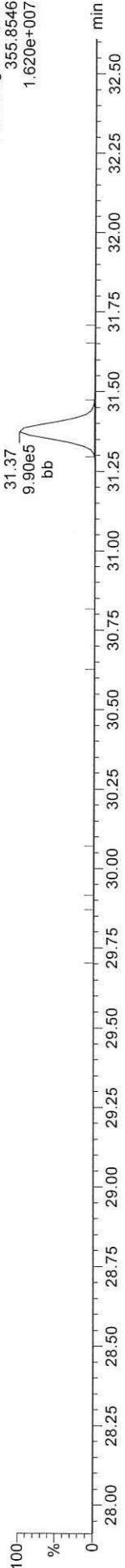
13C-12378-PeCDD

18082009



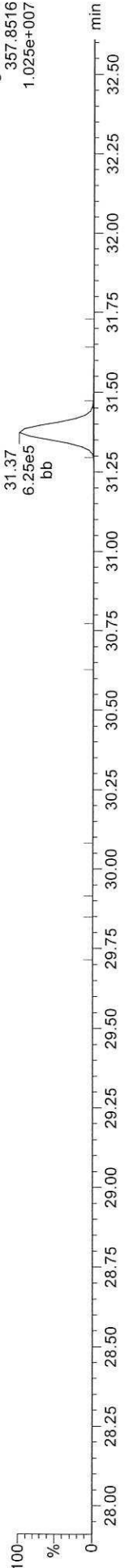
Total-pentadioxins

18082009



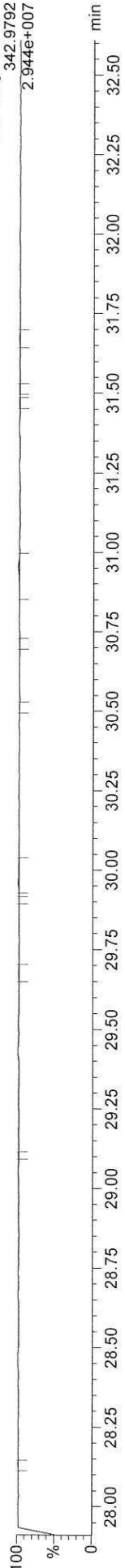
Total-pentadioxins

18082009



FUNCTION2 PFK

18082009

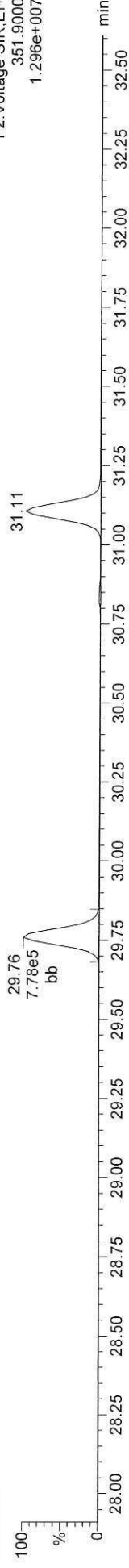


Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

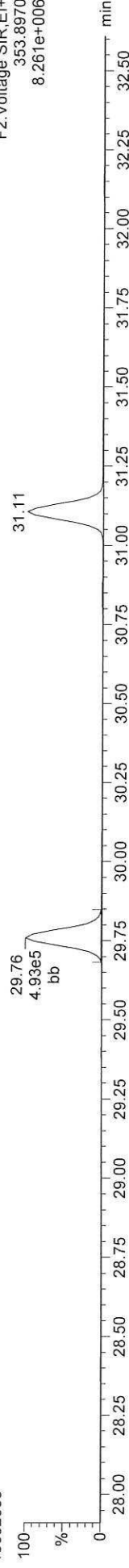
13C-12378-PeCDF

18082009



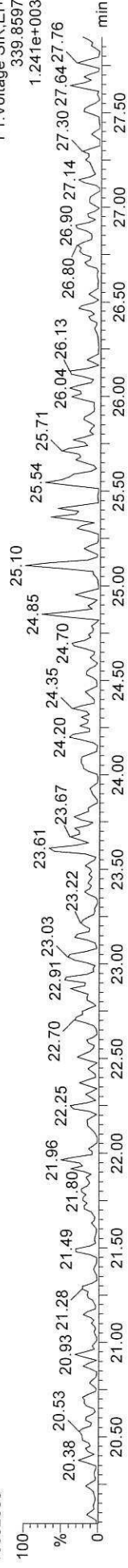
13C-12378-PeCDF

18082009



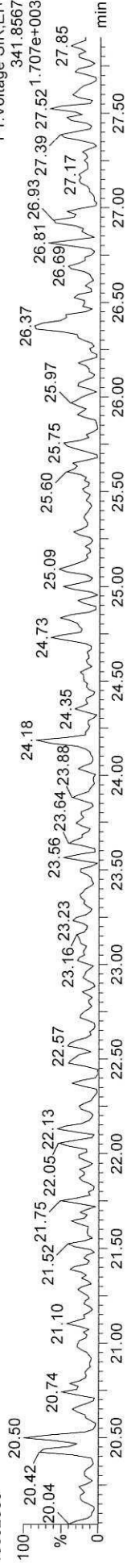
Total-penta1

18082009



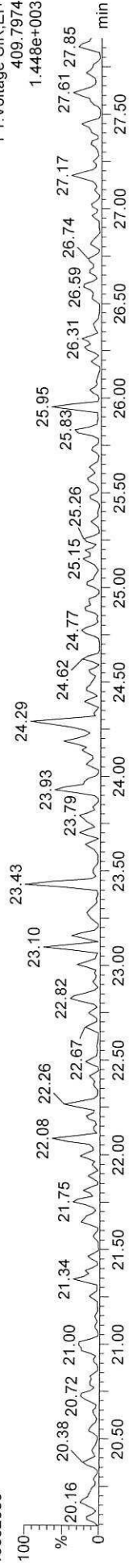
Total-penta1

18082009



FUNCTION1 HPCDPE

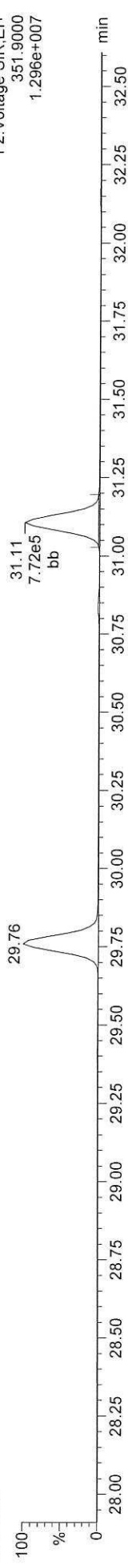
18082009



ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

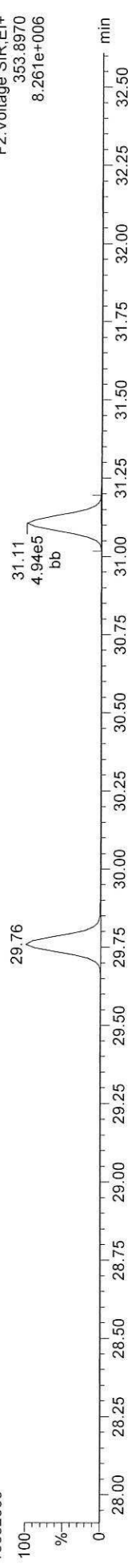
13C-23478-PeCDF

18082009



13C-23478-PeCDF

18082009



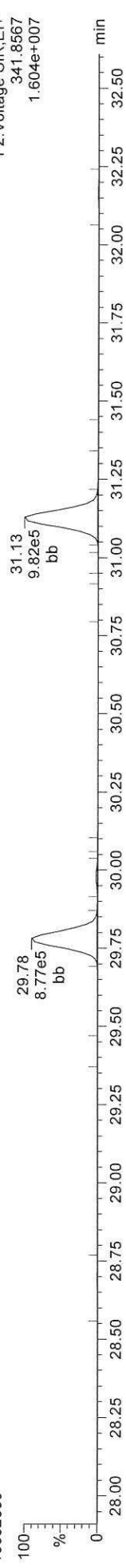
Total-pentafurans

18082009



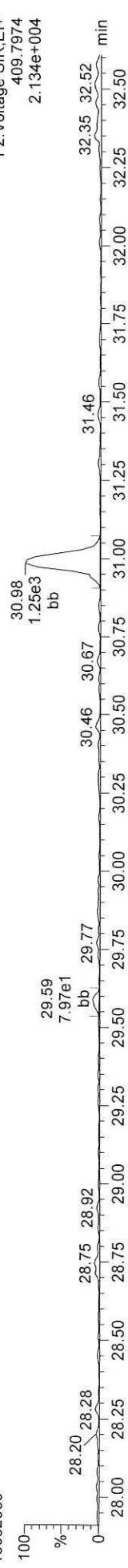
Total-pentafurans

18082009



FUNCTION2 HPCDPE

18082009

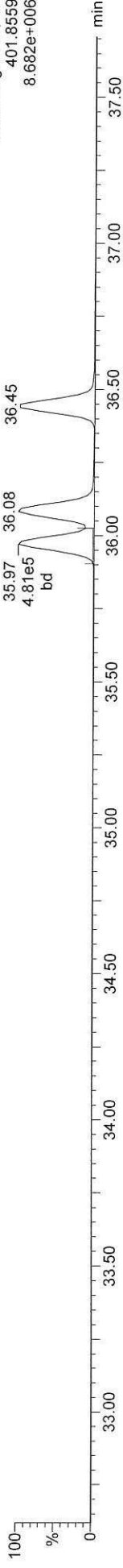


Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

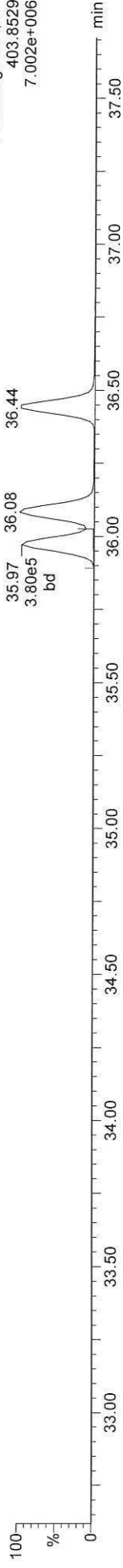
13C-123478-HxCDD

18082009



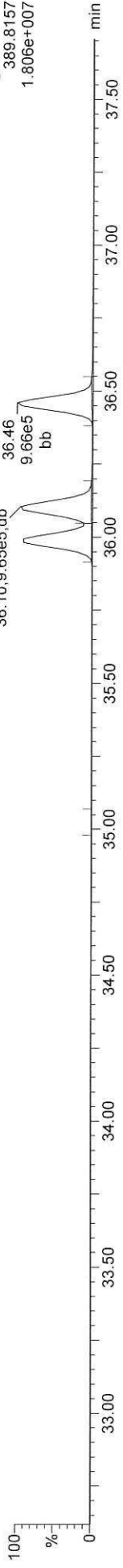
13C-123478-HxCDD

18082009



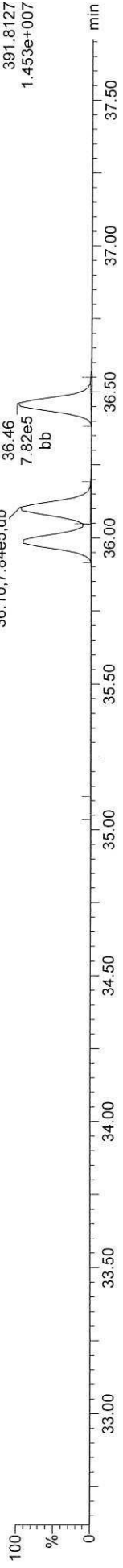
Total-hexadioxins

18082009



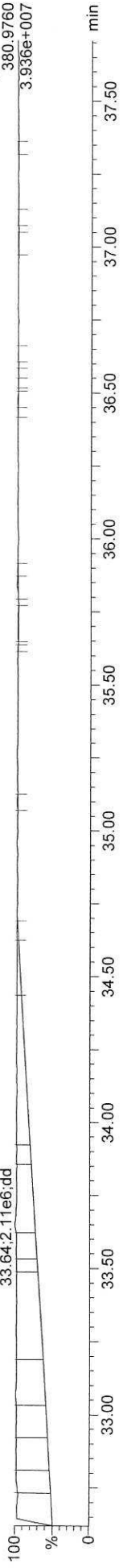
Total-hexadioxins

18082009



FUNCTION3 PFK

18082009

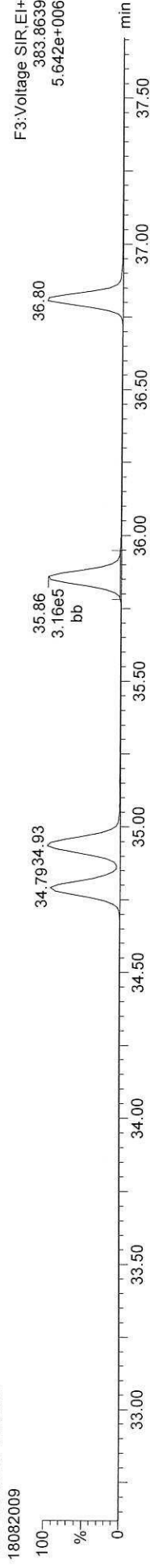


Quantify Sample Report

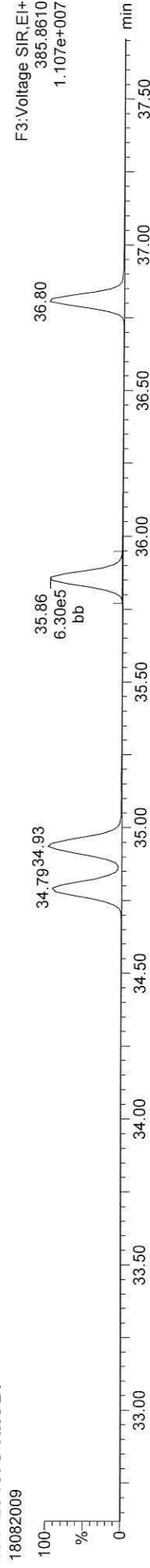
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

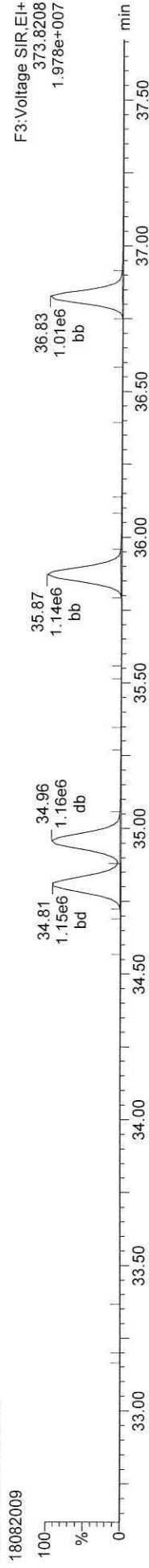
13C-234678-HxCDF



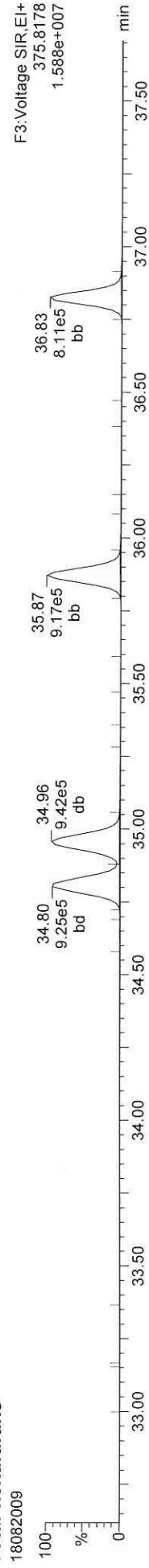
13C-234678-HxCDF



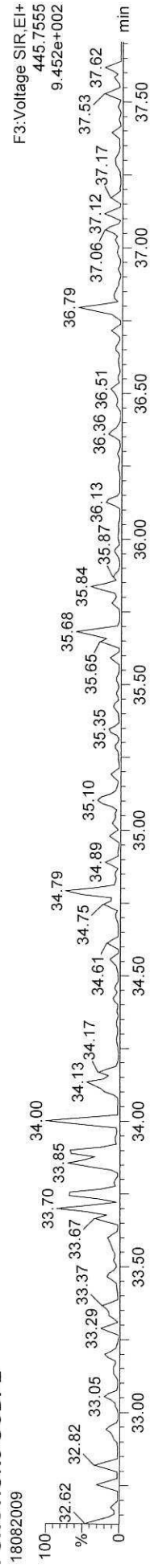
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



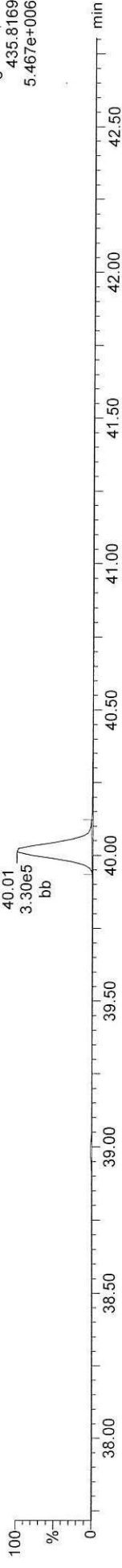
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD

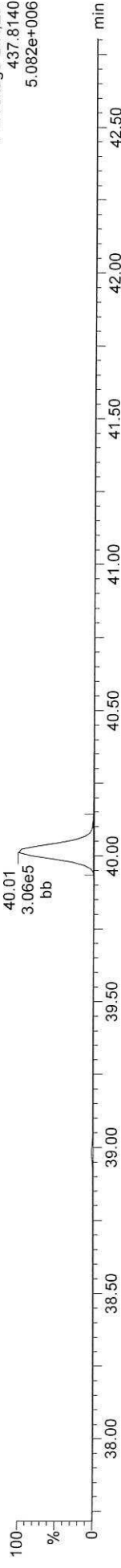
18082009



F4: Voltage SIR, EI+
435.8169
5.467e+006

13C-1234678-HpCDD

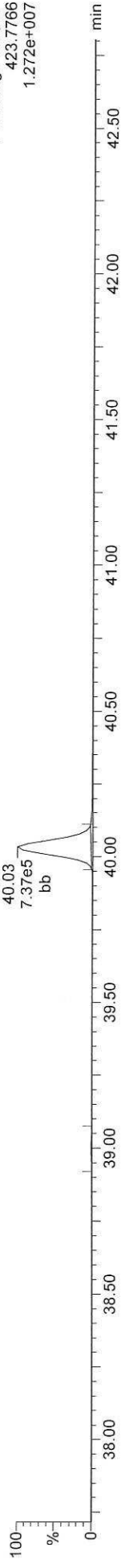
18082009



F4: Voltage SIR, EI+
437.8140
5.082e+006

Total-heptadioxins

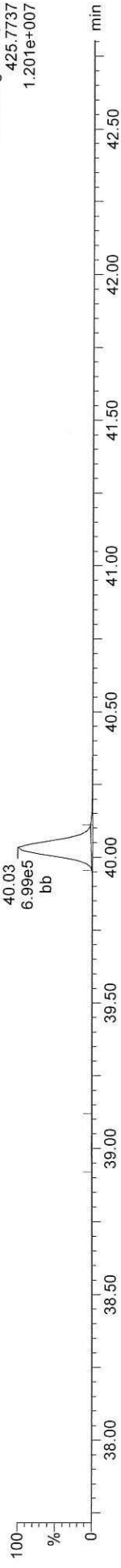
18082009



F4: Voltage SIR, EI+
423.7766
1.272e+007

Total-heptadioxins

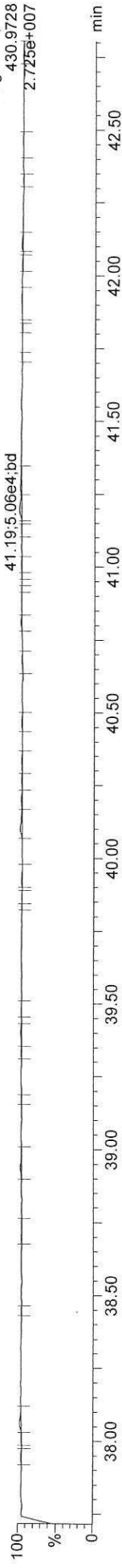
18082009



F4: Voltage SIR, EI+
425.7737
1.201e+007

FUNCTION4 PFK

18082009



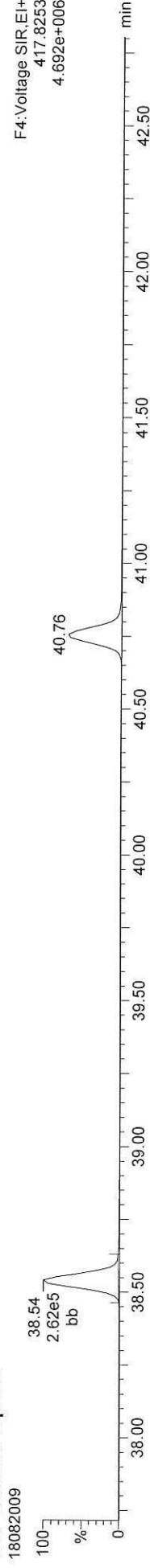
F4: Voltage SIR, EI+
430.9728
2.725e+007

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



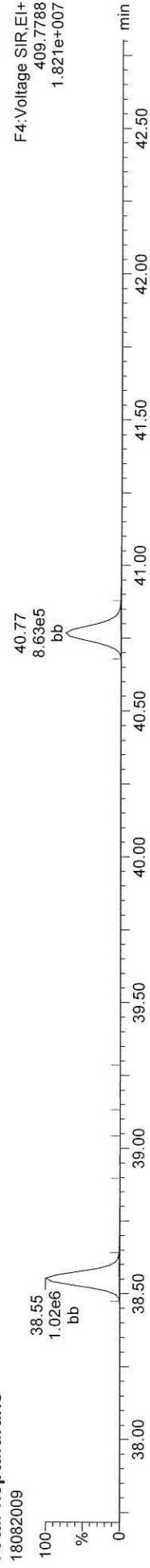
13C-1234678-HpCDF



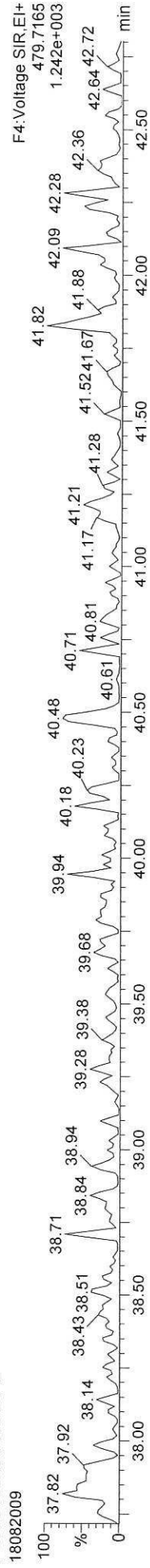
Total-heptafulurans



Total-heptafulurans



FUNCTION4 NCDPE

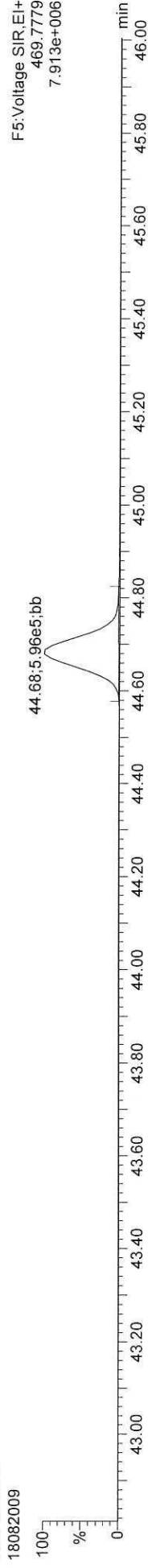


Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

13C-OCDD

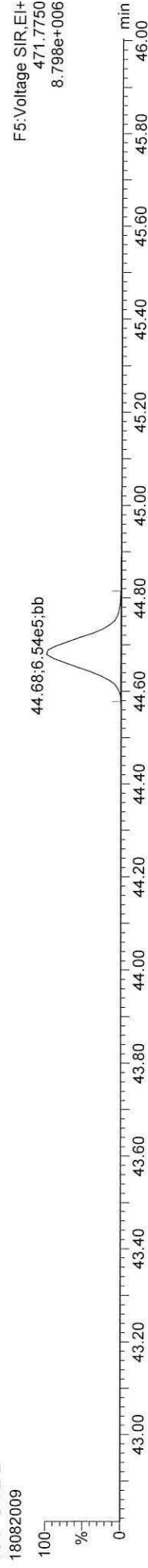
18082009



F5: Voltage SIR, EI+
469.7779
7.913e+006

13C-OCDD

18082009



F5: Voltage SIR, EI+
471.7750
8.798e+006

OCDD

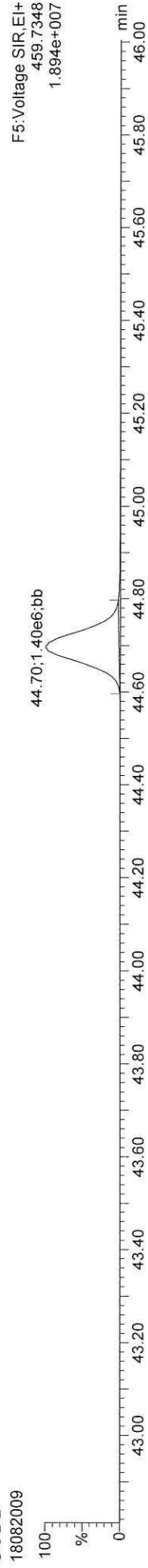
18082009



F5: Voltage SIR, EI+
457.7377
1.681e+007

OCDD

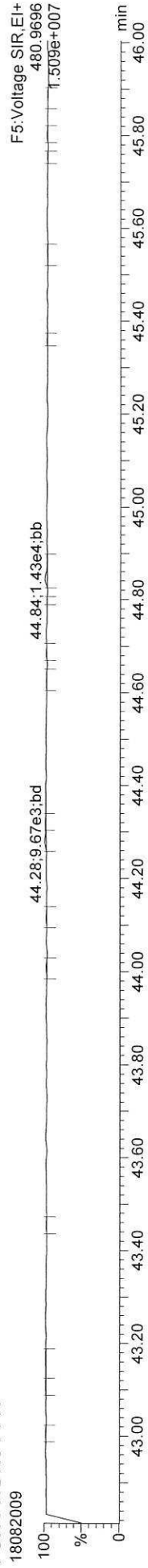
18082009



F5: Voltage SIR, EI+
459.7348
1.894e+007

FUNCTION5 PFK

18082009



F5: Voltage SIR, EI+
480.9696
1.509e+007

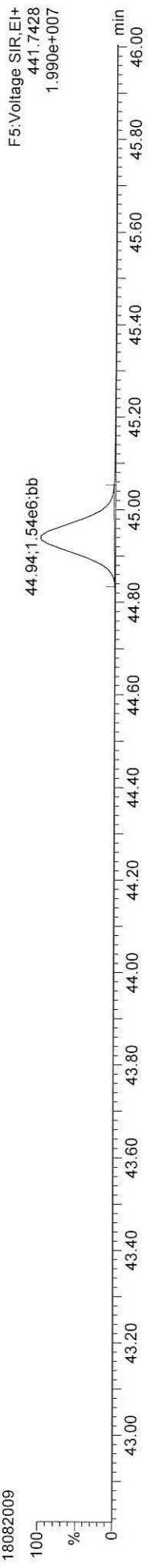
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:12 Pacific Daylight Time

ID: CS4, Name: 18082009, Date: 20-Aug-2018, Time: 20:01:12, Conditions: AUTOSPEC01, User: pk

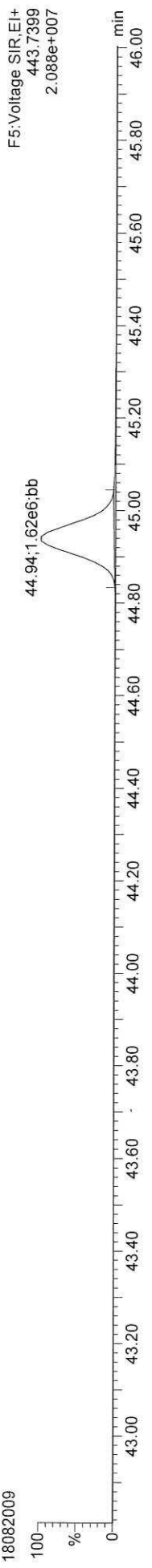
37CL-2378-TCDD



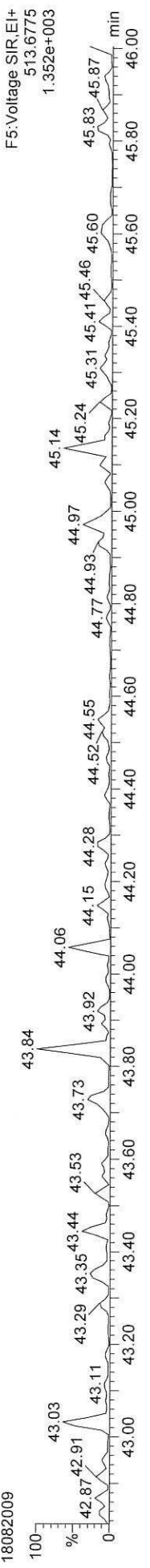
OCDF



OCDF



FUNCTION5 DCDPE



Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld

Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time

Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 17 Aug 2018 15:31:25
 Calibration: 21 Aug 2018 10:16:22

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.633	1.001	1.351e6	1.774e6	0.834	0.761	0.770	789	1032	2.11e7	2.75e7	26757.1	YES	NO	bb	bb	222.785
12378-PeCDF	29.784	1.001	8.707e6	5.232e6	0.852	1.664	1.550	2855	4000	1.43e8	8.57e7	50076.7	YES	NO	bb	bb	1104.635
23478-PeCDF	31.131	1.001	9.714e6	5.829e6	0.944	1.666	1.550	2855	4000	1.60e8	9.54e7	55942.6	YES	NO	bb	bb	1108.567
123478-HxCDF	34.815	1.001	6.854e6	5.554e6	0.963	1.234	1.240	3104	2769	1.08e8	8.75e7	34901.8	YES	NO	bd	bd	1128.190
234678-HxCDF	35.872	1.000	6.823e6	5.530e6	0.991	1.234	1.240	3104	2769	1.19e8	9.67e7	38193.8	YES	NO	bb	bb	1126.329
123678-HxCDF	34.959	1.000	7.008e6	5.651e6	0.917	1.240	1.240	3104	2769	1.13e8	9.14e7	36450.7	YES	NO	db	db	1130.554
123789-HxCDF	36.829	1.000	6.144e6	4.905e6	0.938	1.253	1.240	3104	2769	1.19e8	9.56e7	38314.0	YES	NO	bb	bb	1109.141
1234678-HpCDF	38.555	1.000	6.325e6	6.155e6	1.119	1.028	1.050	5470	4768	1.15e8	1.13e8	21096.7	YES	NO	bb	bb	1096.494
1234789-HpCDF	40.770	1.000	5.384e6	5.228e6	1.162	1.030	1.050	5470	4768	8.43e7	8.20e7	15402.9	YES	NO	bb	bb	1115.058
OCDF	44.945	1.005	9.765e6	1.034e7	1.145	0.944	0.890	2525	1820	1.29e8	1.37e8	50944.6	YES	NO	bb	bb	2265.874
2378-TCDD	26.268	1.001	1.045e6	1.312e6	0.982	0.796	0.770	747	544	1.67e7	2.11e7	22400.5	YES	NO	bb	bb	223.265
12378-PeCDD	31.376	1.000	5.864e6	3.735e6	1.029	1.570	1.550	1333	1076	9.44e7	6.06e7	70861.8	YES	NO	bb	bb	1100.784
123478-HxCDD	35.994	1.000	5.736e6	4.653e6	0.921	1.233	1.240	1259	1263	1.03e8	8.27e7	81568.0	YES	NO	bd	bd	1082.796
123678-HxCDD	36.106	1.000	5.809e6	4.715e6	0.904	1.232	1.240	1259	1263	1.06e8	8.60e7	84345.2	YES	NO	db	db	1101.671
123789-HxCDD	36.462	1.010	5.841e6	4.756e6	0.918	1.228	1.240	1259	1263	1.10e8	8.92e7	87179.5	YES	NO	bb	bb	1100.267
1234678-HpCDD	40.035	1.000	4.524e6	4.307e6	1.046	1.050	1.050	2722	4286	7.59e7	7.25e7	27892.9	YES	NO	bb	bb	1101.274
OCDD	44.708	1.000	7.822e6	8.868e6	0.984	0.882	0.890	3811	1841	1.05e8	1.19e8	27469.4	YES	NO	bb	bb	2188.980
13C-2378-TCDF	25.603	1.007	7.370e5	9.454e5	1.847	0.780	0.770	2994	1901	1.14e7	1.46e7	3808.1	YES	NO	bb	bb	104.054
13C-12378-PeCDF	29.762	1.170	9.044e5	5.763e5	1.558	1.569	1.550	1341	1140	1.48e7	9.51e6	11056.8	YES	NO	bb	bb	108.569
13C-23478-PeCDF	31.109	1.223	9.085e5	5.766e5	1.544	1.576	1.550	1341	1140	1.48e7	9.37e6	11030.4	YES	NO	bb	bb	109.878
13C-123478-HxCDF	34.793	0.955	3.817e5	7.602e5	1.152	0.502	0.510	910	1216	6.19e6	1.22e7	6801.4	YES	NO	bd	bd	98.955
13C-123678-HxCDF	34.949	0.959	4.090e5	8.117e5	1.225	0.504	0.510	910	1216	6.54e6	1.29e7	7180.7	YES	NO	db	db	99.504
13C-234678-HxCDF	35.861	0.984	3.722e5	7.350e5	1.104	0.506	0.510	910	1216	6.65e6	1.30e7	7304.9	YES	NO	bb	bb	100.188
13C-123789-HxCDF	36.818	1.010	3.568e5	7.058e5	1.046	0.506	0.510	910	1216	6.88e6	1.36e7	7562.7	YES	NO	bb	bb	101.489
13C-1234678-HpCDF	38.543	1.057	3.112e5	7.057e5	1.004	0.441	0.440	1142	1281	5.73e6	1.30e7	5017.6	YES	NO	bb	bb	101.099
13C-1234789-HpCDF	40.758	1.118	2.509e5	5.681e5	0.799	0.442	0.440	1142	1281	4.04e6	9.15e6	3534.3	YES	NO	bb	bb	102.404
13C-1234-TCDD	25.437	0.000	3.831e5	4.925e5	1.000	0.778	0.770	1259	612	6.19e6	7.90e6	4917.4	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.253	1.032	4.653e5	6.101e5	1.171	0.763	0.770	1259	612	7.27e6	9.47e6	5773.4	YES	NO	bb	bb	104.873
13C-12378-PeCDD	31.365	1.233	5.282e5	3.195e5	0.886	1.653	1.550	669	489	8.62e6	5.25e6	12894.7	YES	NO	bb	bb	109.270
13C-123478-HxCDD	35.984	0.987	5.871e5	4.548e5	1.027	1.291	1.240	775	576	1.01e7	7.92e6	13001.3	YES	NO	bd	bd	101.334
13C-123678-HxCDD	36.095	0.990	5.830e5	4.737e5	1.055	1.231	1.240	775	576	1.04e7	8.24e6	13398.1	YES	NO	db	db	100.020
13C-1234678-HpCDD	40.024	1.098	3.973e5	3.690e5	0.749	1.077	1.050	938	1026	6.57e6	6.00e6	7005.1	YES	NO	bb	bb	102.173
13C-OCDD	44.699	1.226	7.371e5	8.130e5	0.725	0.907	0.890	671	1573	9.73e6	1.07e7	14502.5	YES	NO	bb	bb	213.595

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

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld

Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time

Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
13C-123789-HxCDD	36.451	0.000	5.575e5	4.438e5	1.000	1.256	1.240	775	576	1.06e7	8.43e6	13667.7	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.268	1.033	2.265e6		1.121			682		3.61e7		52918.3	YES		bb		230.900
1368-TCDF					1.020		0.770	789	1032								
1289-TCDF					0.818		0.770	789	1032								
13468-PECDF					1.163		1.550	256	390								
12389-PECDF	32.166	1.081	5.779e4	3.480e4	0.233	1.661	1.550	2855	4000	9.29e5	5.52e5	325.5	YES	NO	bb	bb	26.859
123468-HxCDF	33.078	0.951	2.291e3	1.757e3	0.351	1.304	1.240	3104	2769	3.68e4	3.46e4	11.8	YES	NO	bd	bb	1.011
1368-TCDD					1.026		0.770	747	544								
1289-TCDD					0.938		0.770	747	544								
12479-PECDD					1.807		1.550	1333	1076								
12389-PECDD	31.743	1.012	8.686e1	3.799e2	0.663	0.229	1.550	1333	1076	3.96e3	1.01e4	3.0	NO	YES	bb	bd	0.083
124679-HxCDD					1.031		1.240	1259	1263								
1234679-HPCDD	39.000	0.974	2.404e4	2.295e4	0.314	1.048	1.050	2722	4286	4.16e5	4.07e5	153.0	YES	NO	bb	bb	19.552
Total-tetrafurans			1.369e6		0.891			789		2.14e7							225.803
Total-penta1			0.000e0					256		0.00e0							
Total-penta1furans			1.870e7		0.676			2855		3.07e8							2275.278
Total-hexa1furans			2.685e7		0.832			3104		4.59e8							4499.311
Total-hepta1furans			1.173e7		1.141			5470		2.00e8							2214.770
Total-Furans			6.842e7		0.897			789		1.12e9							11481.036
Total-tetra1dioxins			1.068e6		0.982			747		1.70e7							228.126
Total-penta1dioxins			5.876e6		1.166			1333		9.46e7							1102.729
Total-hexa1dioxins			1.739e7		0.944			1259		3.19e8							3285.036
Total-hepta1dioxins			4.548e6		0.680			2722		7.63e7							1120.826
Total-Dioxins			3.670e7		0.966			747		6.11e8							7925.698
Total-TEQ			1.051e8					747		1.73e9							19406.733
FUNCTION1 PFK			6.946e5					242588		1.47e7							0.000
FUNCTION2 PFK			1.838e5					205049		5.27e6							0.000
FUNCTION3 PFK			1.093e5					231900		3.68e6							
FUNCTION4 PFK			2.908e4					178419		6.29e5							
FUNCTION5 PFK			5.538e4					117689		1.60e6							
FUNCTION1 HxCDPE			0.000e0					189		0.00e0							
FUNCTION1 HPCDPE			0.000e0					339		0.00e0							
FUNCTION2 HPCDPE			6.117e3					530		9.84e4							0.000
FUNCTION3 OCDPE			0.000e0					237		0.00e0							
FUNCTION4 NCDPE			0.000e0					235		0.00e0							
FUNCTION5 DCDPE			0.000e0					209		0.00e0							

Quantify Sample Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CI\H.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 17 Aug 2018 15:31:25
Calibration: 21 Aug 2018 10:16:22

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

18082010



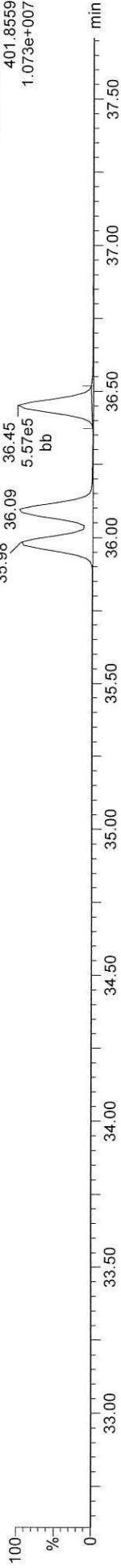
13C-1234-TCDD

18082010



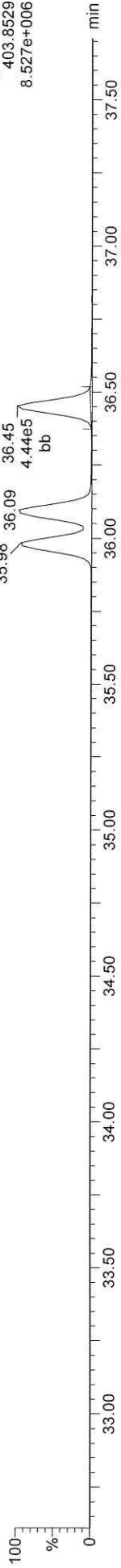
13C-123789-HxCDD

18082010



13C-123789-HxCDD

18082010



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDD

18082010



13C-2378-TCDD

18082010



Total-tetradioxins

18082010



Total-tetradioxins

18082010



FUNCTION1 PFK

18082010



Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

18082010



13C-2378-TCDF

18082010



Total-tetrafurans

18082010



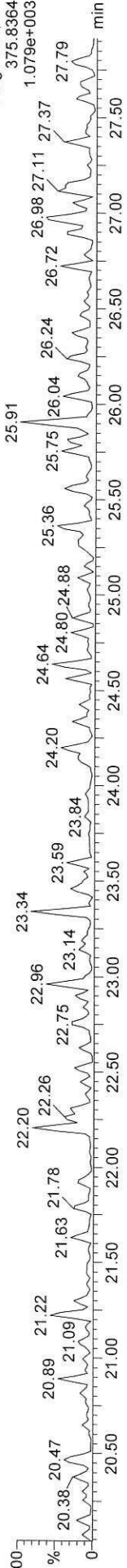
Total-tetrafurans

18082010



FUNCTION1 HXCDPE

18082010



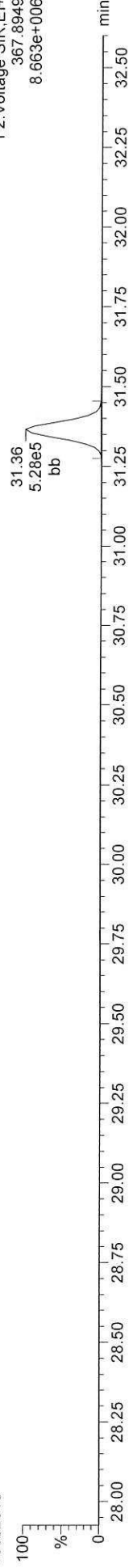
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

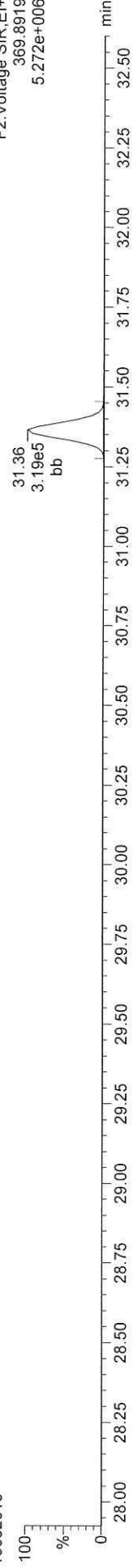
13C-12378-PeCDD

18082010



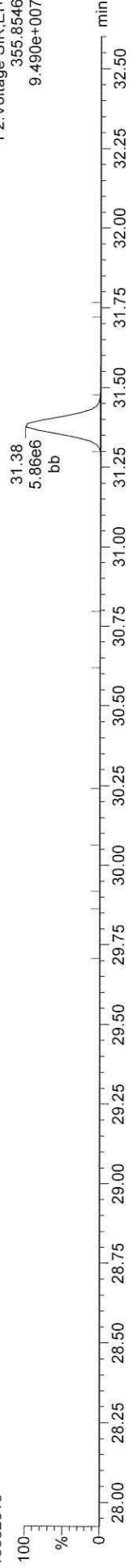
13C-12378-PeCDD

18082010



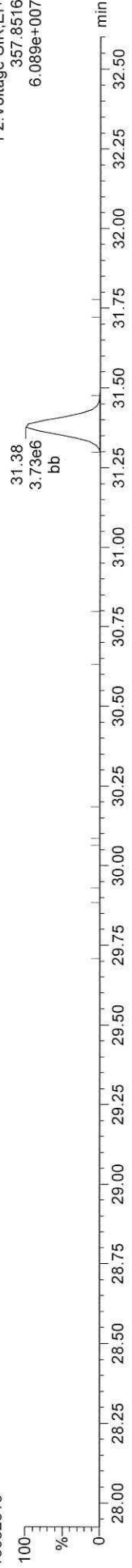
Total-pentadioxins

18082010



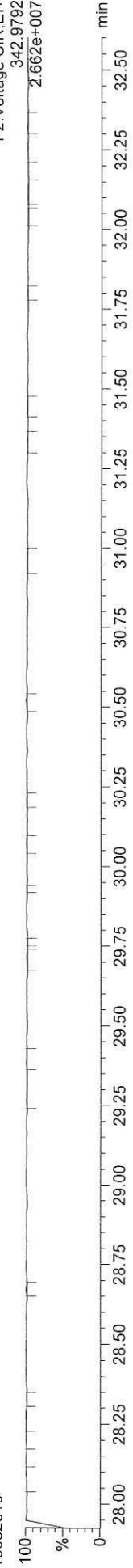
Total-pentadioxins

18082010



FUNCTION2 PFK

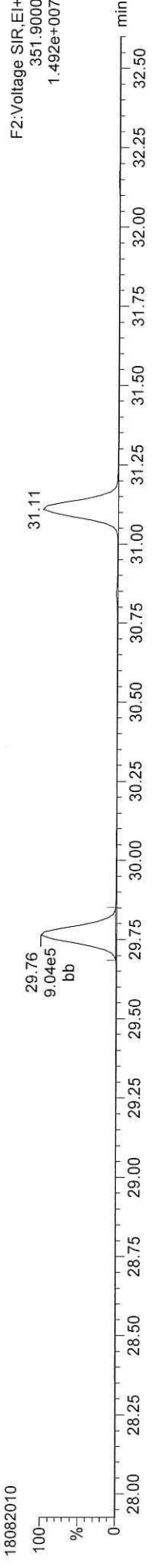
18082010



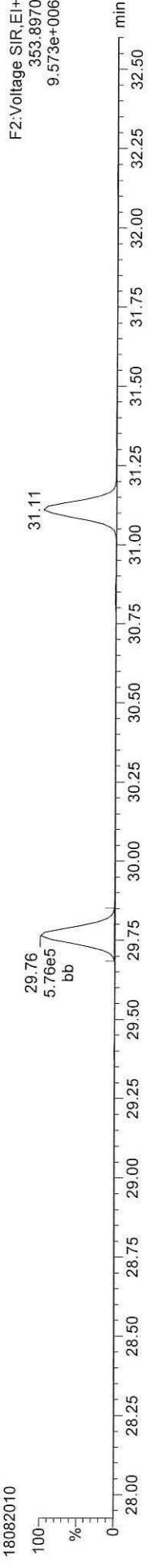
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
 Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
 Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
 Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

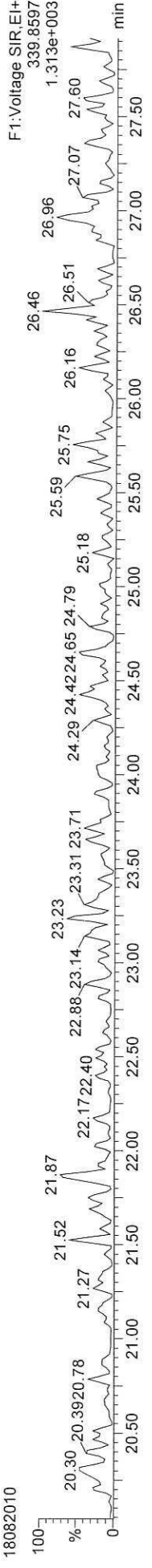
13C-12378-PeCDF



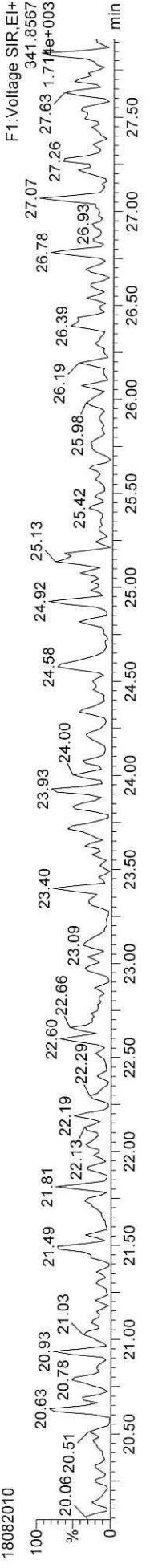
13C-12378-PeCDF



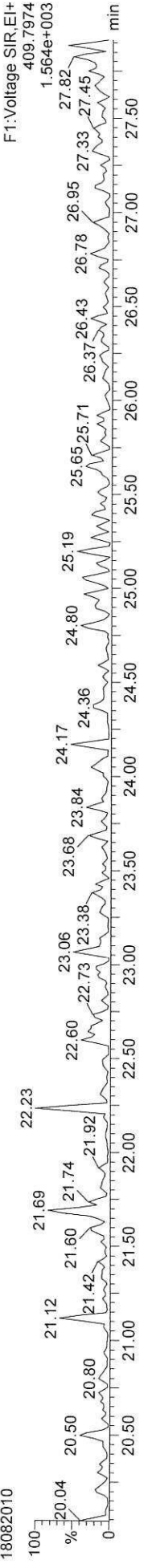
Total-penta1



Total-penta1



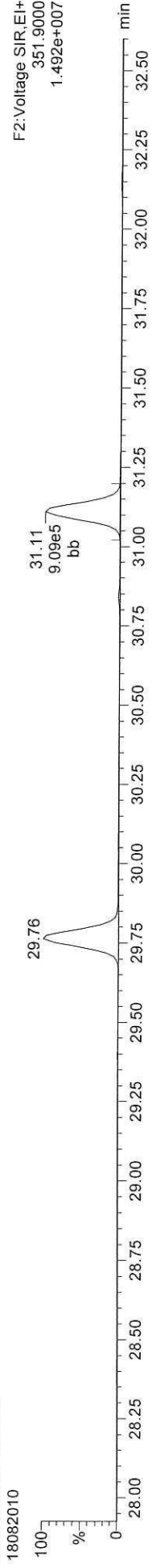
FUNCTION1 HPCDPE



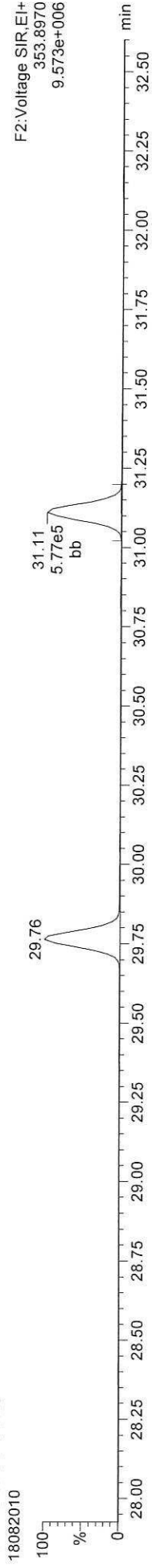
Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

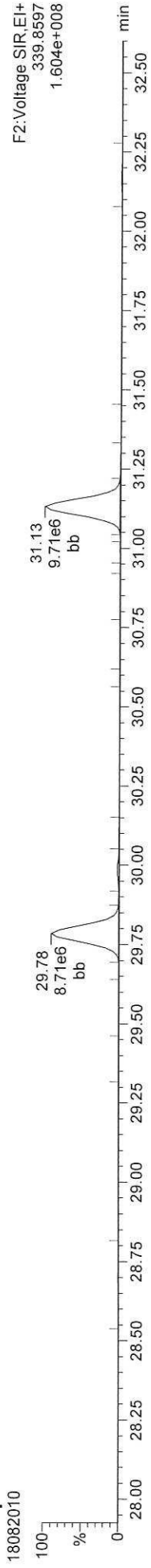
13C-23478-PeCDF



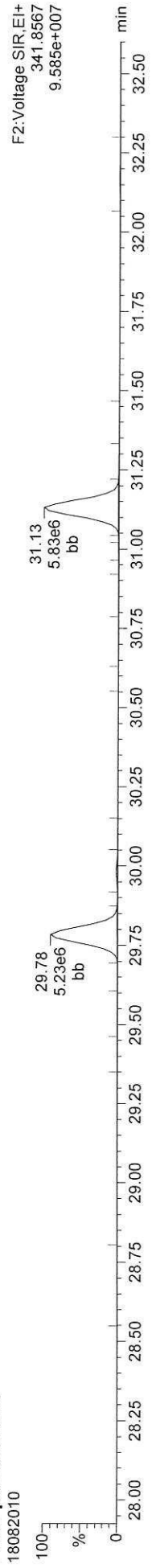
13C-23478-PeCDF



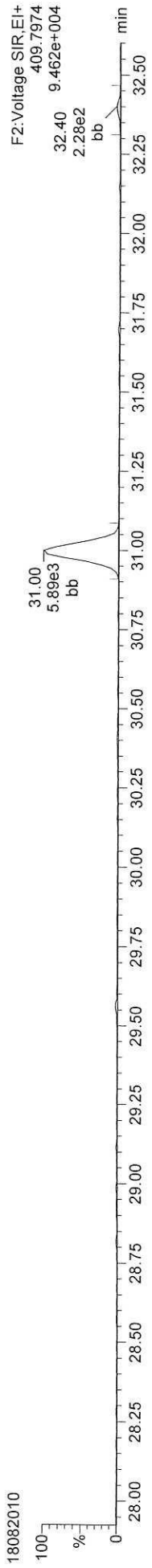
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE



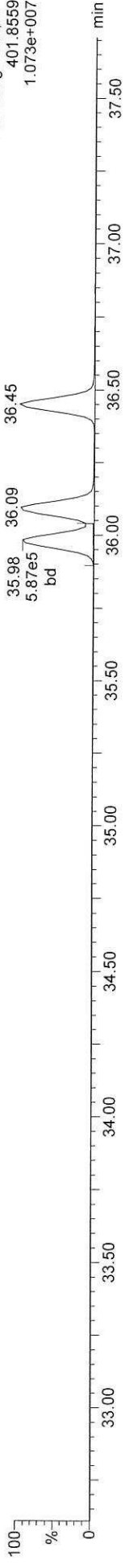
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

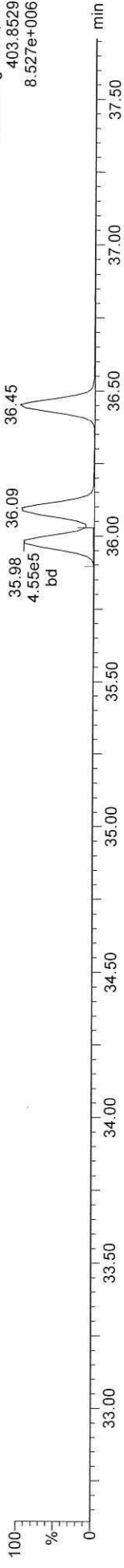
13C-123478-HxCDD

18082010



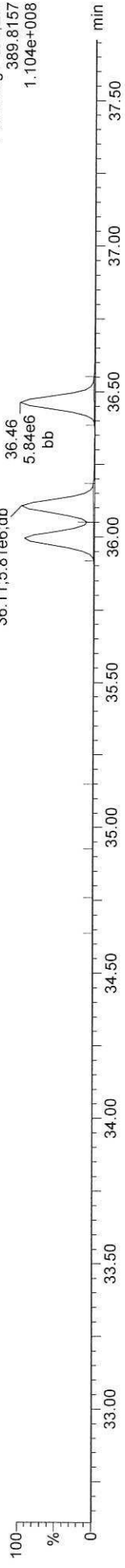
13C-123478-HxCDD

18082010



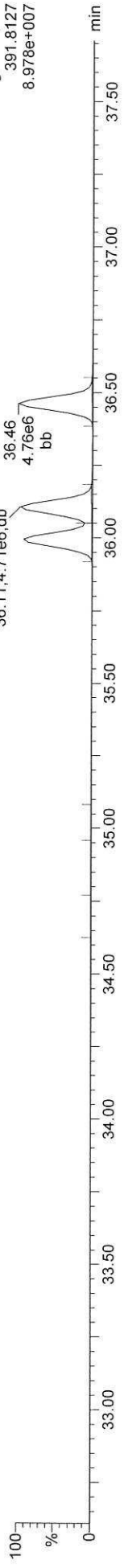
Total-hexadioxins

18082010



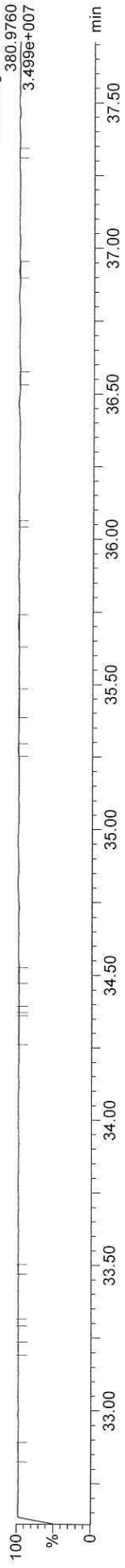
Total-hexadioxins

18082010



FUNCTION3 PFK

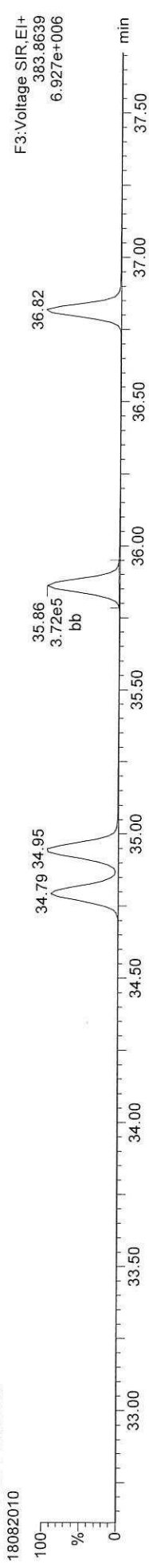
18082010



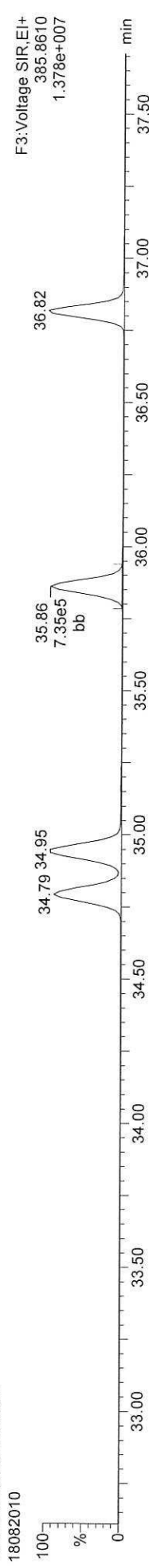
Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

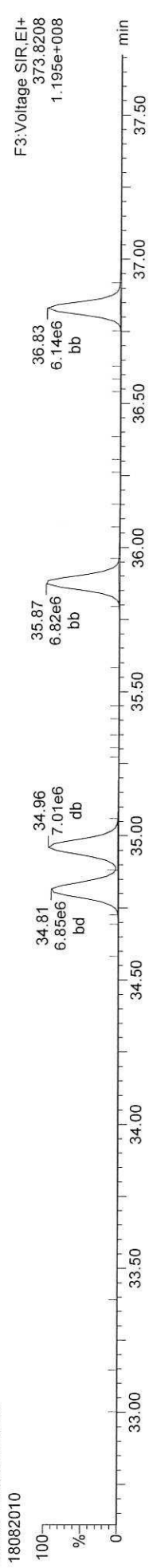
13C-234678-HxCDF



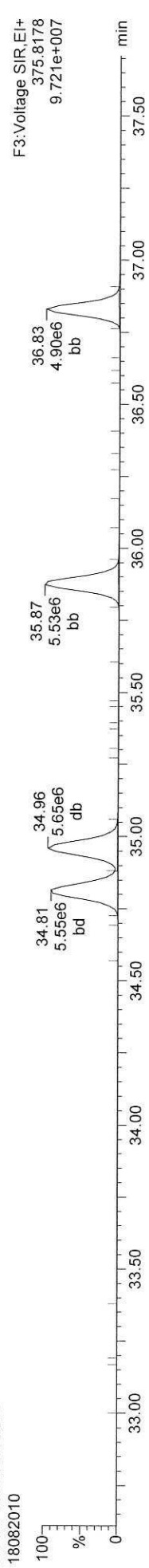
13C-234678-HxCDF



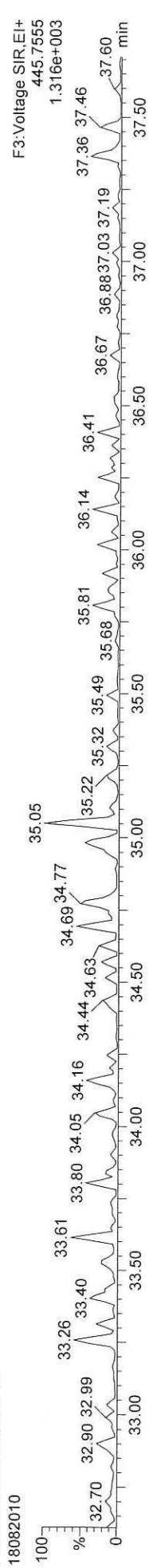
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



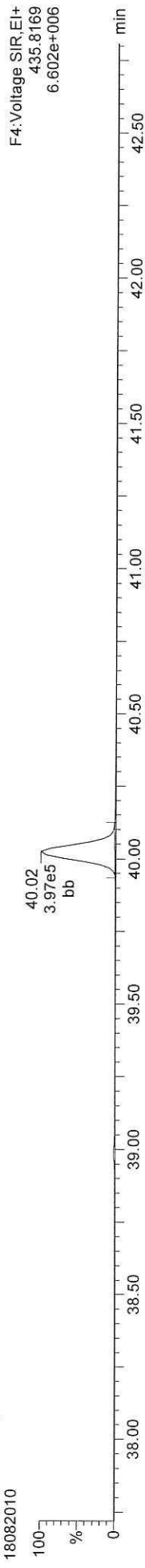
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

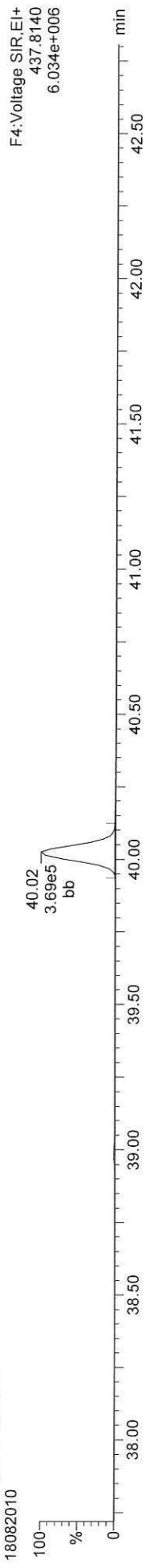
13C-1234678-HpCDD

18082010



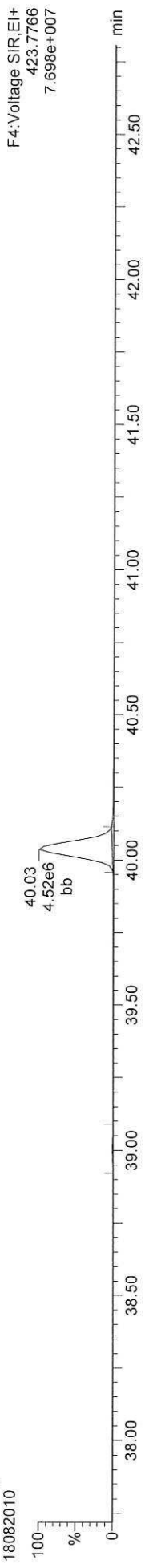
13C-1234678-HpCDD

18082010



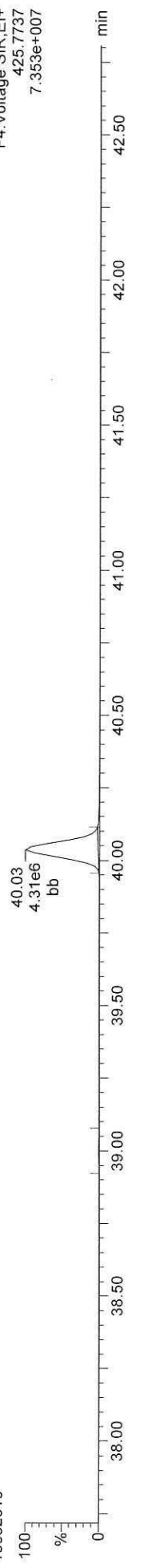
Total-heptadioxins

18082010



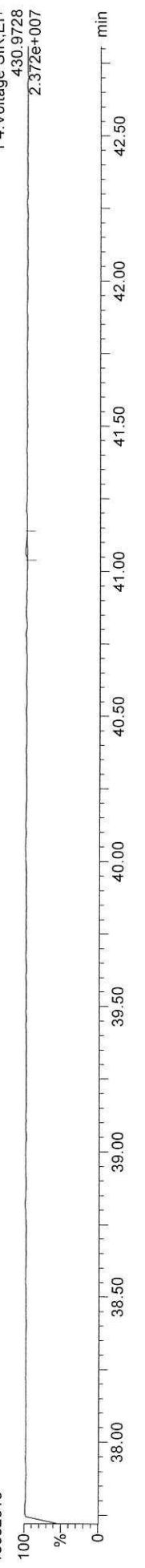
Total-heptadioxins

18082010



FUNCTION4 PFK

18082010

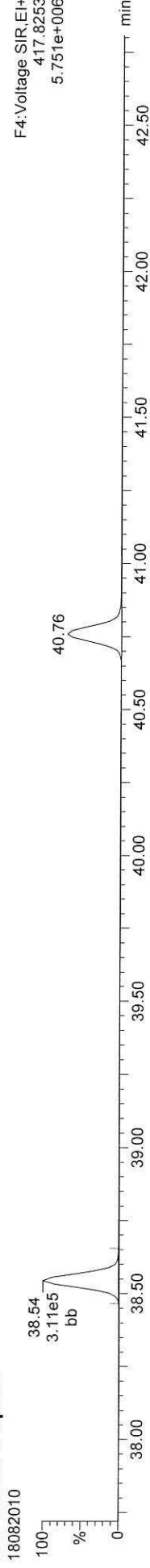


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

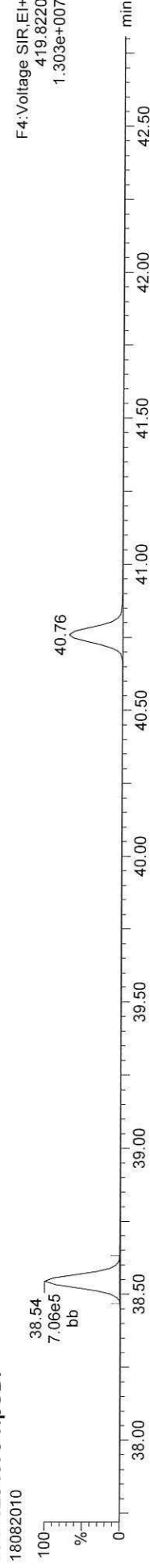
Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDF



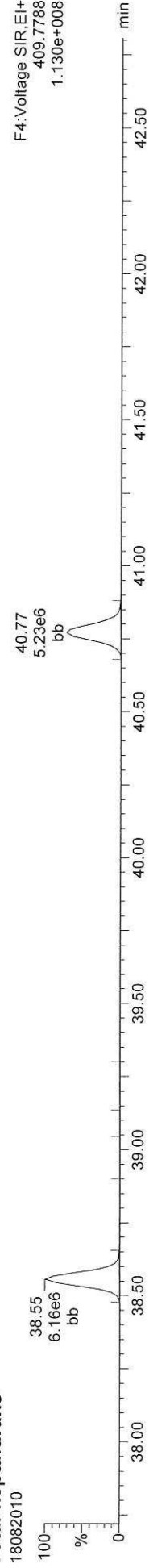
13C-1234678-HpCDF



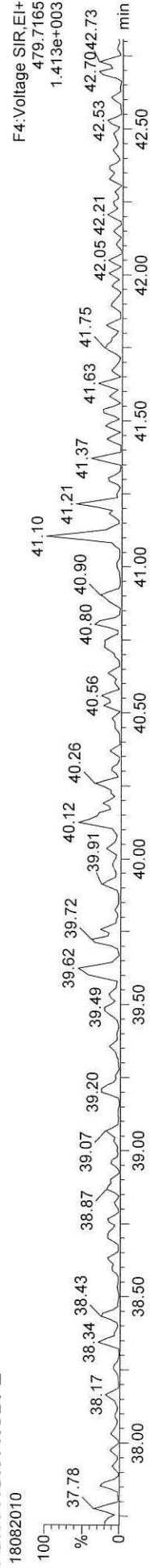
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE



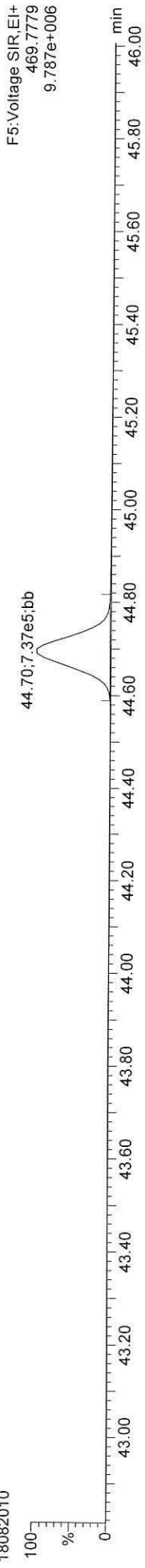
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

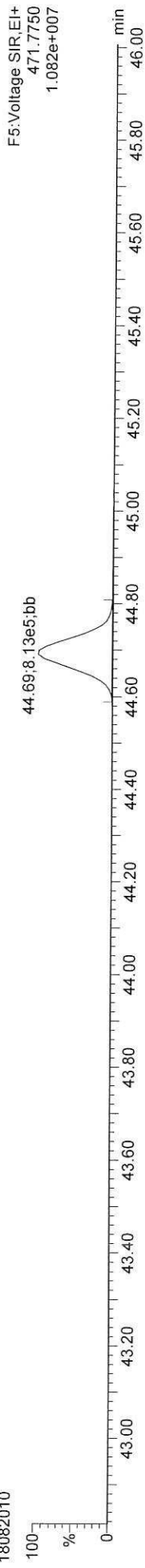
13C-OCDD

18082010



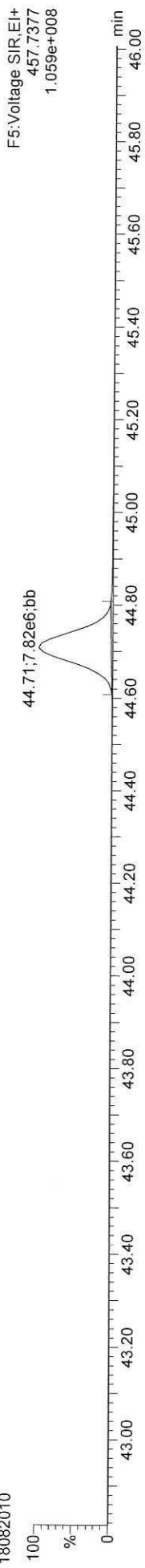
13C-OCDD

18082010



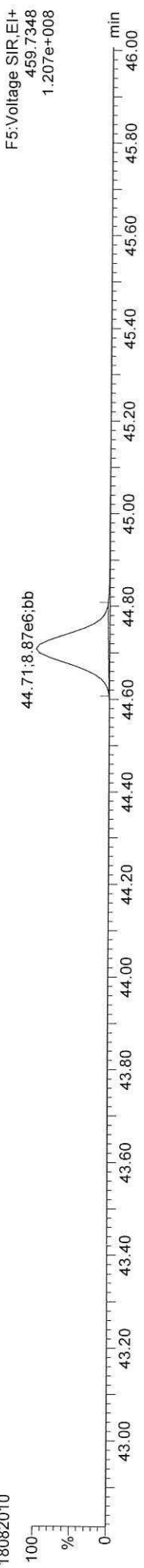
OCDD

18082010



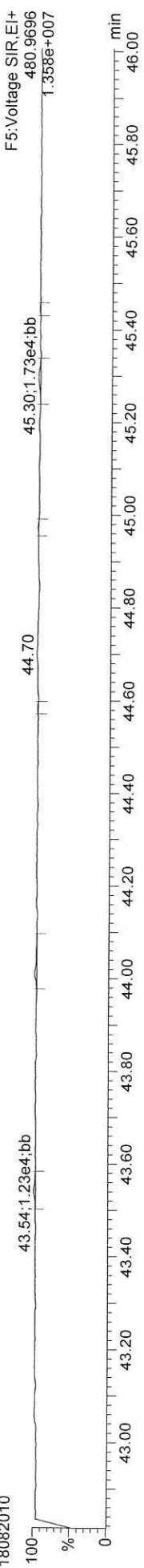
OCDD

18082010



FUNCTION5 PFK

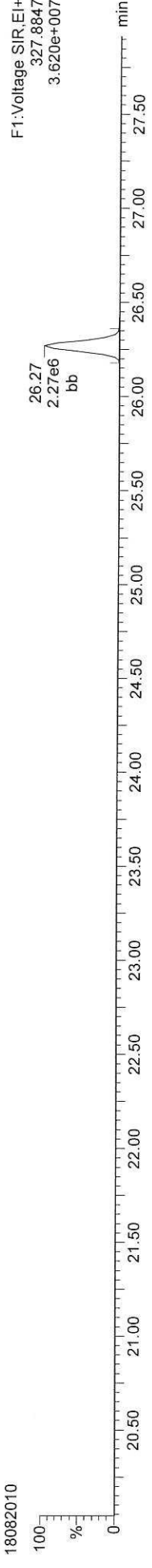
18082010



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820\CIH.qld
Last Altered: Tuesday, August 21, 2018 10:16:22 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:18:14 Pacific Daylight Time

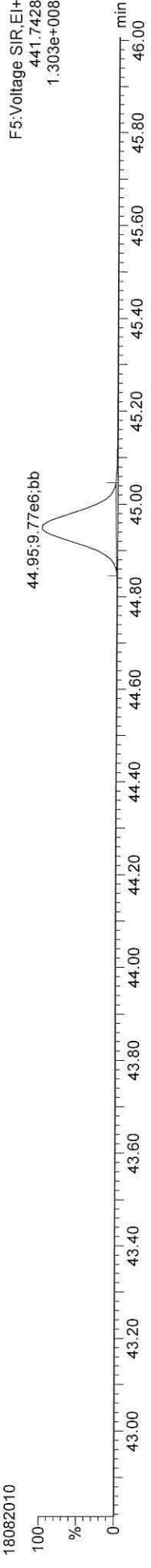
ID: CS5, Name: 18082010, Date: 20-Aug-2018, Time: 20:49:38, Conditions: AUTOSPEC01, User: pk

37CL-2378-TCDD



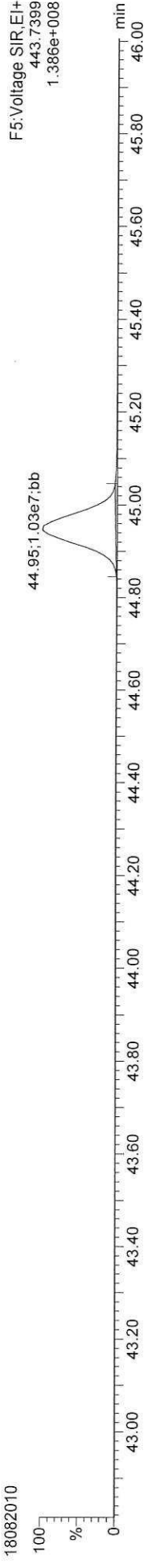
F1: Voltage SIR, EI+
327.8847
3.620e+007

OCDF



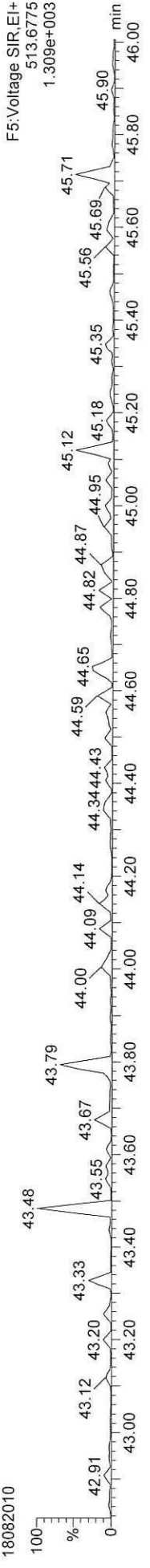
F5: Voltage SIR, EI+
441.7428
1.303e+008

OCDF



F5: Voltage SIR, EI+
443.7399
1.386e+008

FUNCTION5 DCDPE



F5: Voltage SIR, EI+
513.6775
1.309e+003

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820CLIH.qld
Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 17 Aug 2018 15:31:25
Calibration: T:\Autospec\Curves\180820ClH.cdb 21 Aug 2018 10:16:22

ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

Table with columns: Compound, RT, RRT, Ion1Area, Ion2Area, RRF, Ratio, Pred R, Noise 1, Noise 2, Height 1, Height 2, S/N, SNFlag, EMPC, Int. 1, Int. 2, pg. Rows include compounds like 2378-TCDF, 12378-PeCDF, 23478-PeCDF, etc.

Dataset: T:\Autospec\Processed Data Batch\180820CLIH.qld
 Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
 Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

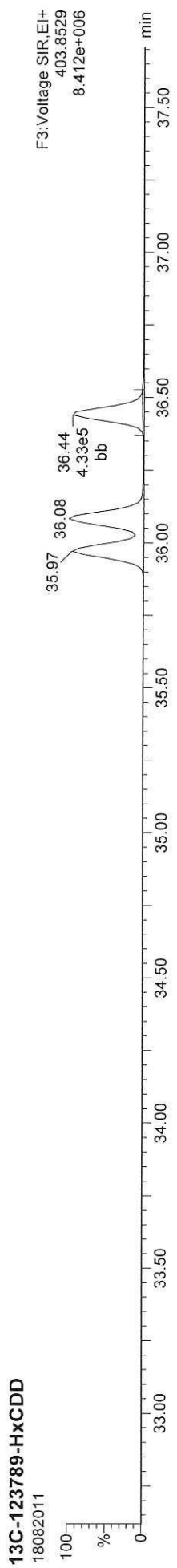
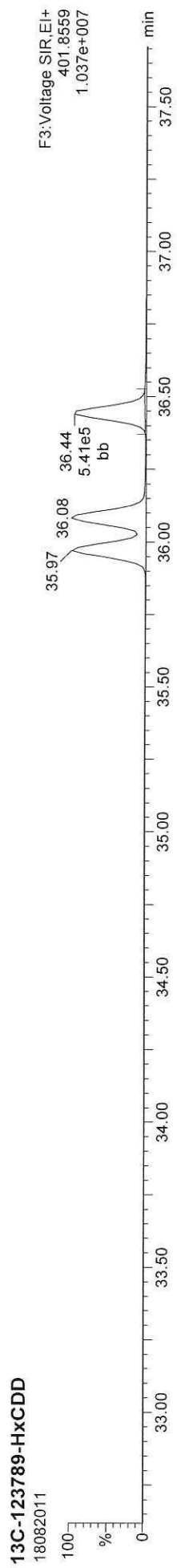
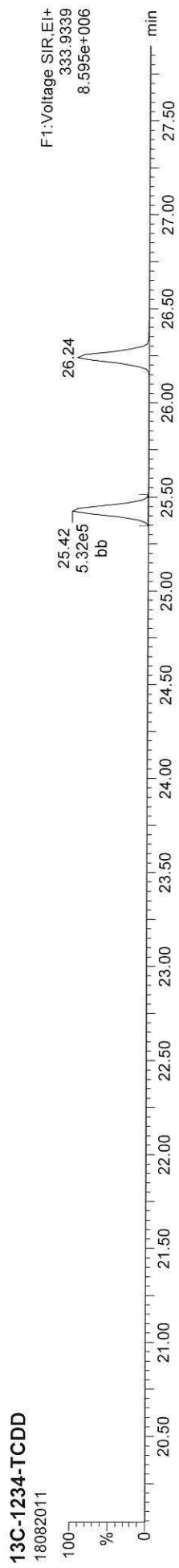
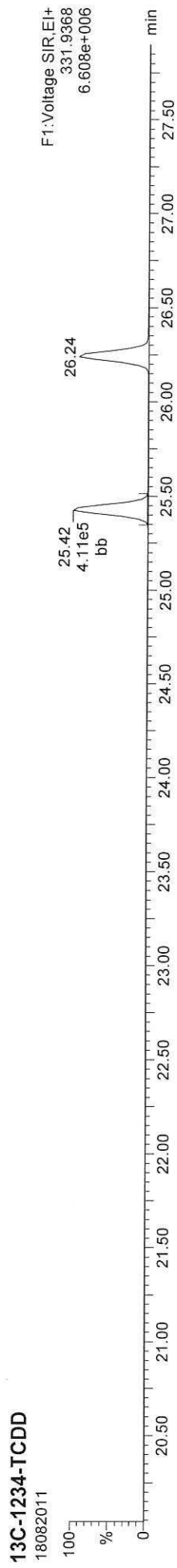
ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	SIN 1	SNFlag	EMPC	Int.1	Int.2	pg
13C-123789-HxCDD	36.437	0.000	5.408e5	4.331e5	1.000	1.249	1.240	1151	761	9.83e6	7.92e6	8535.3	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.268	1.033	1.064e5	1.121				439		1.67e6		3810.7	YES		bb		10.062
1368-TCDF	22.113	0.864	7.208e4	9.627e4	1.020	0.749	0.770	615	730	1.23e6	1.66e6	2003.4	YES	NO	bb	bb	9.503
1289-TCDF	27.114	1.059	6.087e4	8.063e4	0.818	0.755	0.770	615	730	9.49e5	1.23e6	1543.1	YES	NO	db	db	9.958
13468-PECDF	26.963	0.906	5.062e5	3.296e5	1.163	1.536	1.550	375	610	7.96e6	5.21e6	21191.7	YES	NO	bb	bb	47.119
12389-PECDF	32.163	1.081	4.514e5	2.717e5	0.233	1.662	1.550	3028	1775	7.11e6	4.21e6	2347.7	YES	NO	bb	bd	203.659
123468-HxCDF	33.076	0.951	3.370e5	2.682e5	0.351	1.256	1.240	1021	1339	5.42e6	4.29e6	5307.0	YES	NO	bb	bb	148.810
1368-TCDD	23.382	0.891	4.813e4	6.036e4	1.026	0.797	0.770	793	723	7.84e5	9.97e5	988.5	YES	NO	bb	bb	11.904
1289-TCDD	26.857	1.024	4.461e4	5.677e4	0.938	0.786	0.770	793	723	7.28e5	9.30e5	918.7	YES	NO	bb	bb	12.171
12479-PECDD	28.646	0.913	4.604e5	2.824e5	1.807	1.631	1.550	1619	1001	4.58e6	2.87e6	2832.2	YES	NO	bb	bb	47.464
12389-PECDD	31.773	1.013	3.509e5	2.216e5	0.663	1.583	1.550	1619	1001	5.54e6	3.48e6	3422.3	YES	NO	bb	bd	99.695
124679-HxCDD	33.866	0.942	2.930e5	2.339e5	1.031	1.253	1.240	1297	1023	4.65e6	3.77e6	3587.3	YES	NO	bb	bb	50.027
1234679-HPCDD	38.998	0.975	2.272e5	2.178e5	0.314	1.043	1.050	1482	1108	4.02e6	3.77e6	2715.4	YES	NO	bb	bb	196.632
Total-tetrafurans			2.004e5		0.891			615		3.30e6							30.355
Total-penta1			5.062e5					375		7.96e6							47.119
Total-pentafurans			1.434e6		0.676			3028		2.30e7							317.446
Total-hexafurans			1.627e6		0.832			1021		2.70e7							361.000
Total-heptafurans			5.430e5		1.141			1667		9.03e6							105.098
Total-Furans			4.726e6		0.897			615		7.55e7							966.643
Total-tetraioxins			2.411e5		0.982			793		3.50e6							62.344
Total-pentadioxins			1.100e6		1.166			1619		1.49e7							199.813
Total-hexadioxins			1.127e6		0.944			1297		1.95e7							207.903
Total-heptadioxins			4.306e5		0.680			1482		7.43e6							249.254
Total-Dioxins			3.240e6		0.966			793		4.98e7							823.644
Total-TEQ			7.966e6					793		1.25e8							1790.288
FUNCTION1 PFK			2.267e5		264345			264345		4.14e6							0.000
FUNCTION2 PFK			1.324e5		183546			183546		4.13e6							0.000
FUNCTION3 PFK			1.325e7		198437			198437		6.87e7							
FUNCTION4 PFK			7.040e4		152282			152282		2.05e6							
FUNCTION5 PFK			5.691e4		107955			107955		2.00e6							
FUNCTION1 HxCDPE			0.000e0		217			217		0.00e0							0.000
FUNCTION1 HPCDPE			7.269e1		324			324		1.76e3							0.000
FUNCTION2 HPCDPE			3.482e2		339			339		7.87e3							0.000
FUNCTION3 OCDPE			0.000e0		171			171		0.00e0							
FUNCTION4 NCDPE			0.000e0		360			360		0.00e0							
FUNCTION5 DCDPE			0.000e0		159			159		0.00e0							

Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\180820CLIH.qld
Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin\180817.mdb 17 Aug 2018 15:31:25
Calibration: T:\Autospec\Curves\180820\CIH.cdb 21 Aug 2018 10:16:22

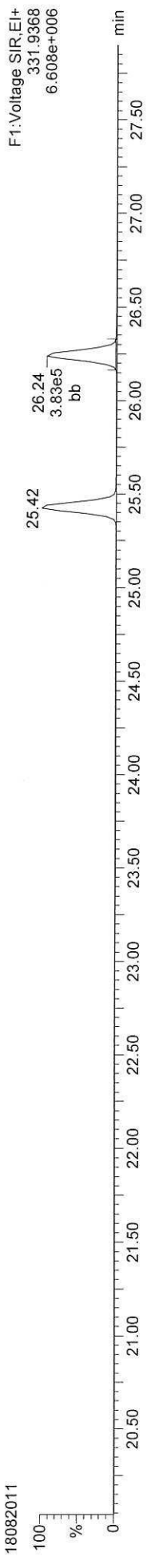
ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk



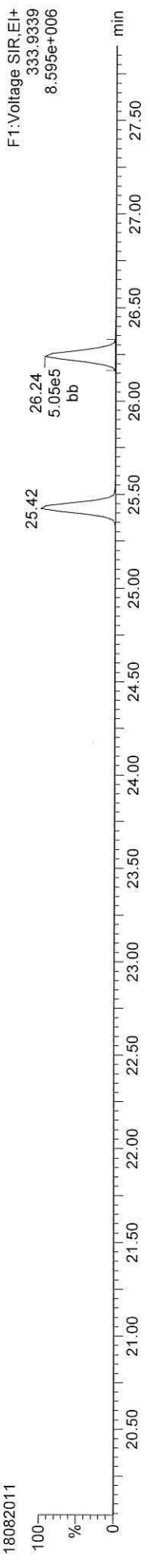
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820CLIH.qld
Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

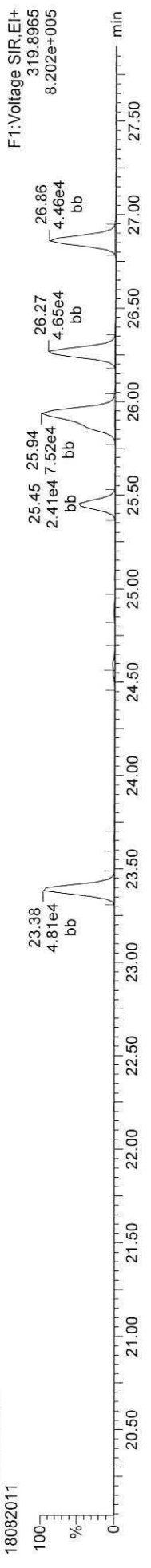
13C-2378-TCDD



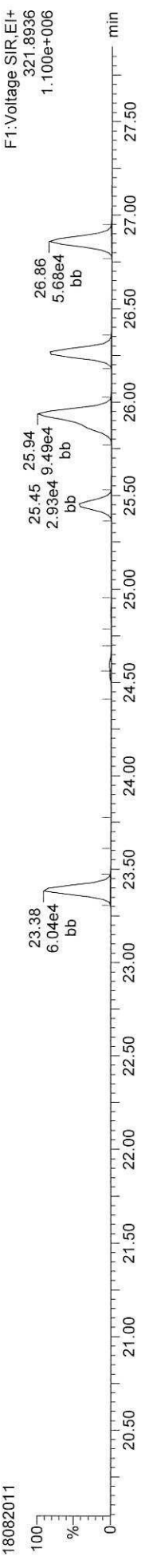
13C-2378-TCDD



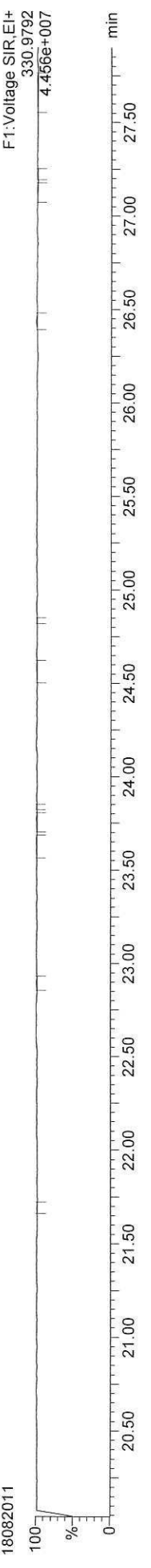
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
 Dataset: T:\Autospec\Processed Data Batch\180820CLIH.qld
 Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
 Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

13C-2378-TCDF

18082011



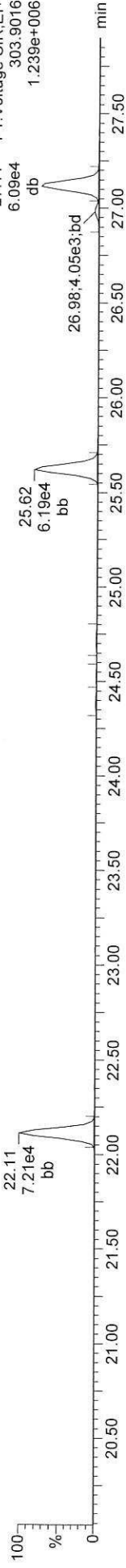
13C-2378-TCDF

18082011



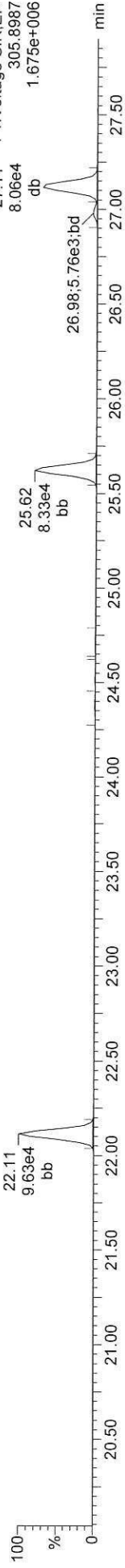
Total-tetrafurans

18082011



Total-tetrafurans

18082011



FUNCTION1 HXCDPE

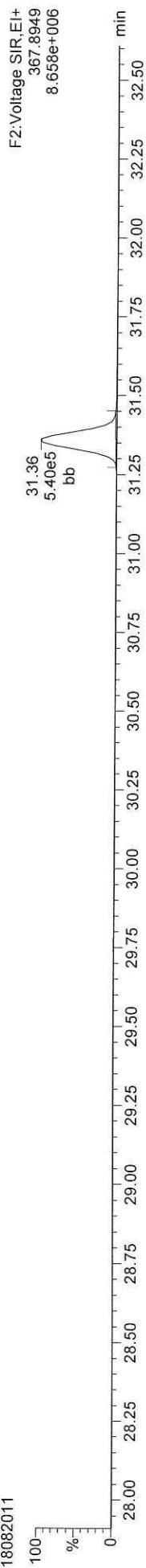
18082011



ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

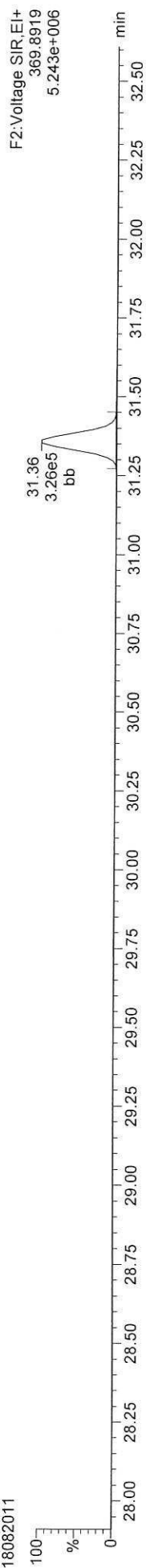
13C-12378-PeCDD

18082011



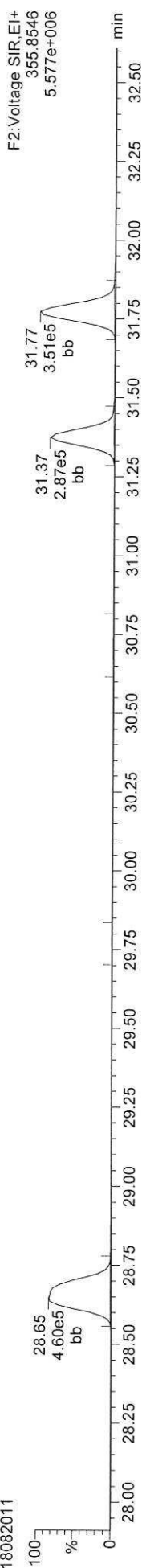
13C-12378-PeCDD

18082011



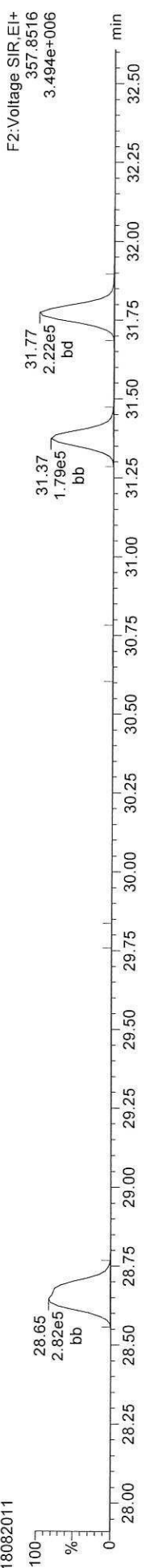
Total-pentadioxins

18082011



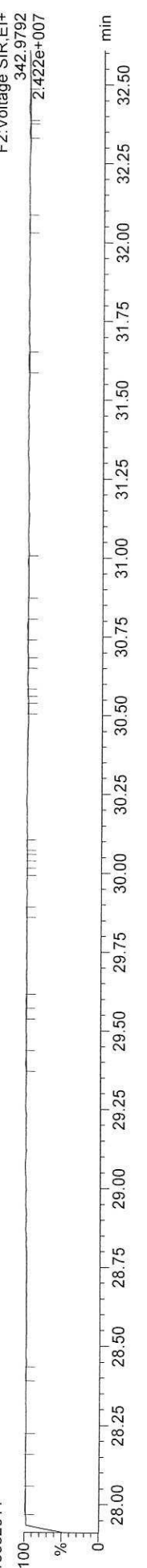
Total-pentadioxins

18082011



FUNCTION2 PFK

18082011

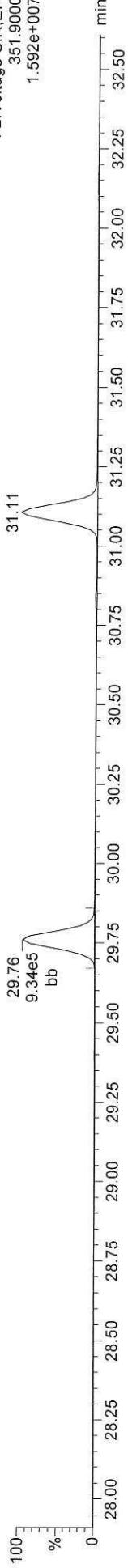


Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820CLIH.qld
Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

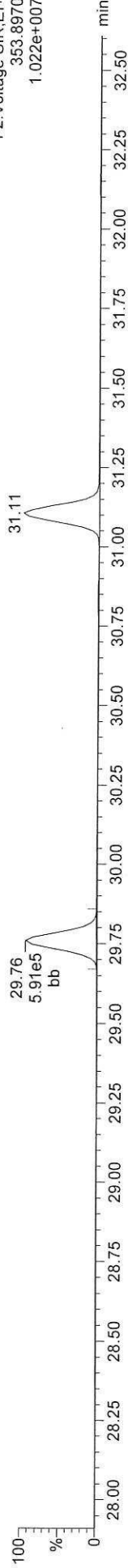
13C-12378-PeCDF

18082011



13C-12378-PeCDF

18082011



Total-penta1

18082011



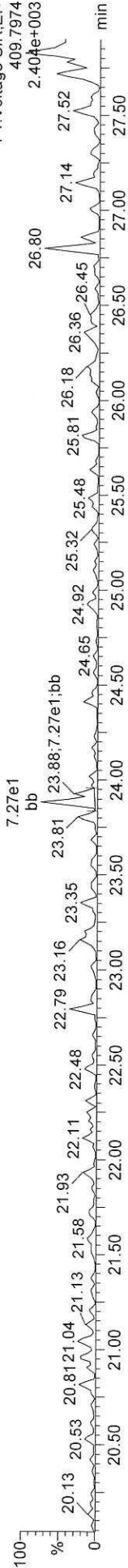
Total-penta1

18082011



FUNCTION1 HPCDPE

18082011



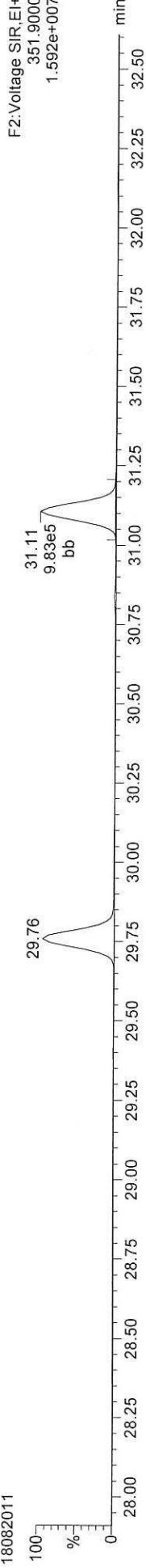
Quantify Sample Report

MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820CLIH.qld
Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

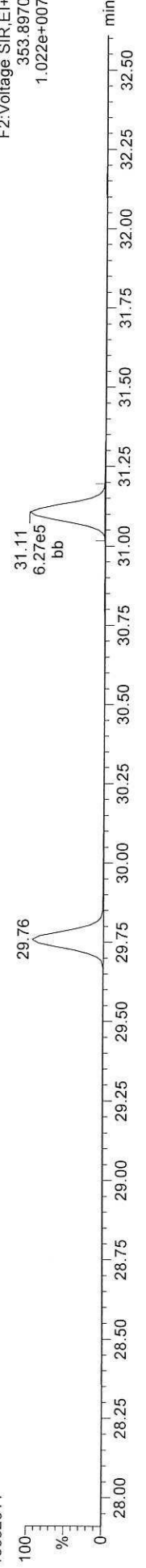
13C-23478-PeCDF

18082011



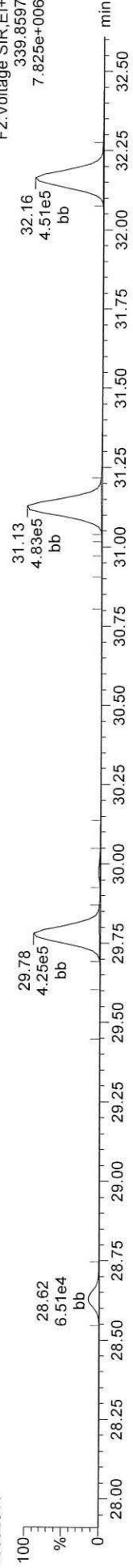
13C-23478-PeCDF

18082011



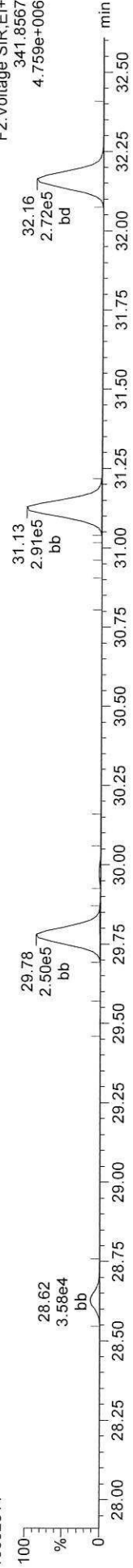
Total-pentafurans

18082011



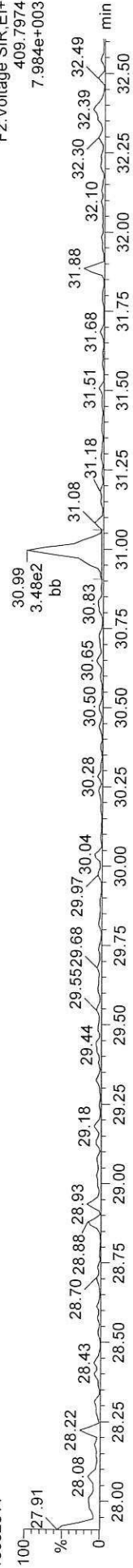
Total-pentafurans

18082011



FUNCTION2 HPCDPE

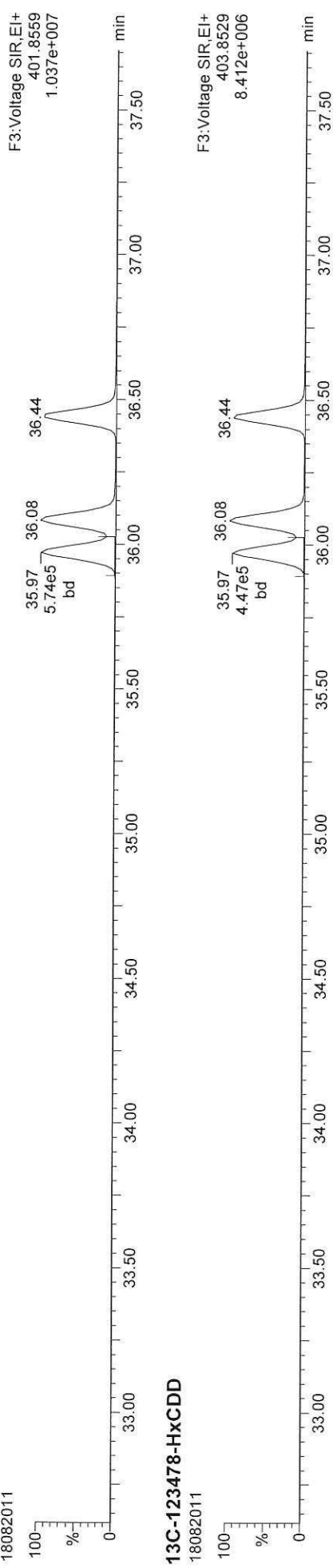
18082011



ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

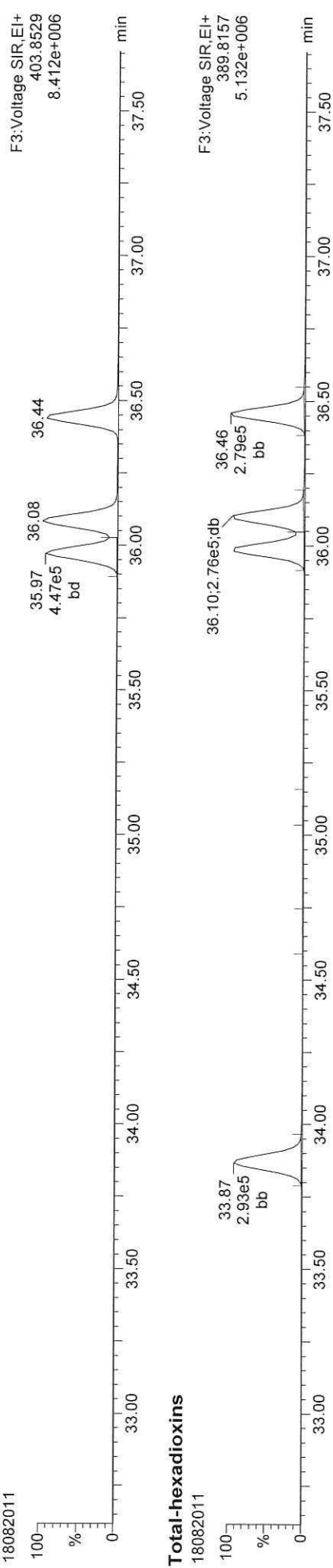
13C-123478-HxCDD

18082011



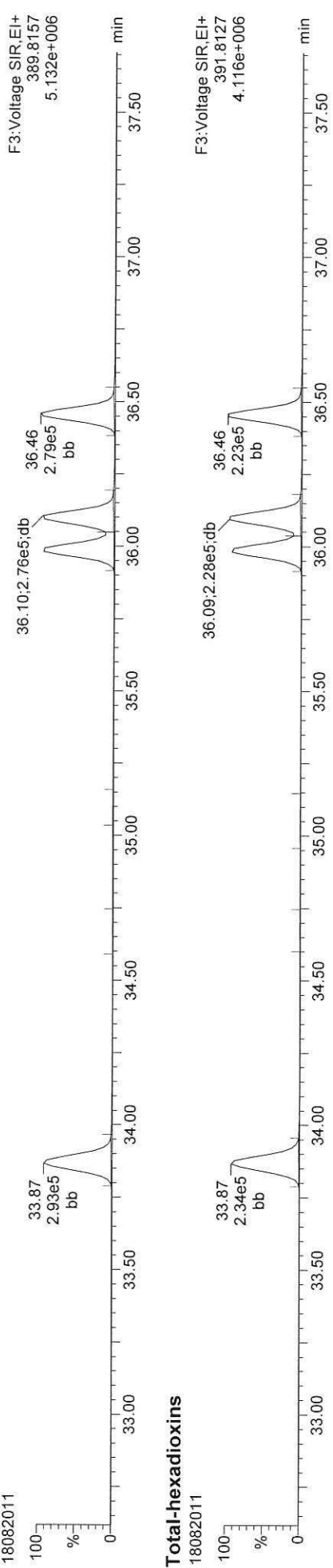
13C-123478-HxCDD

18082011



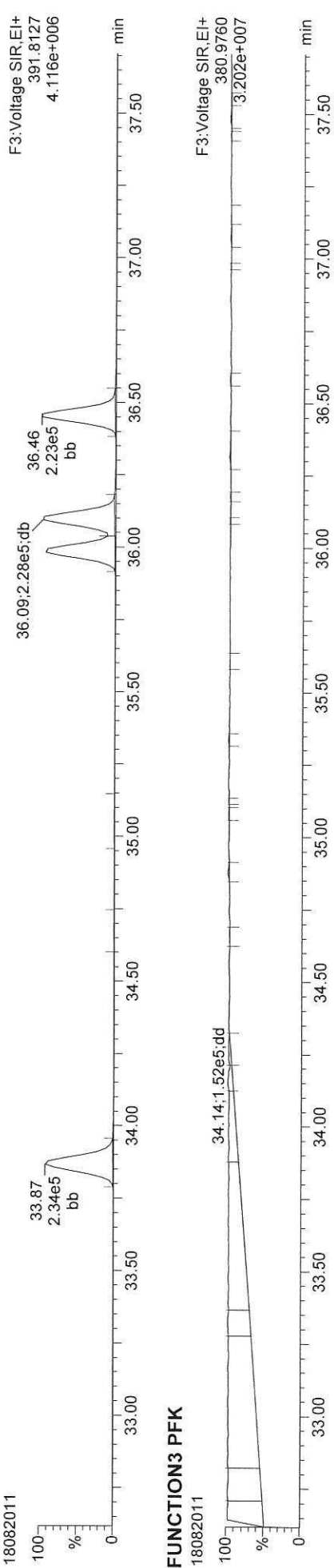
Total-hexadioxins

18082011



Total-hexadioxins

18082011



FUNCTION3 PFK

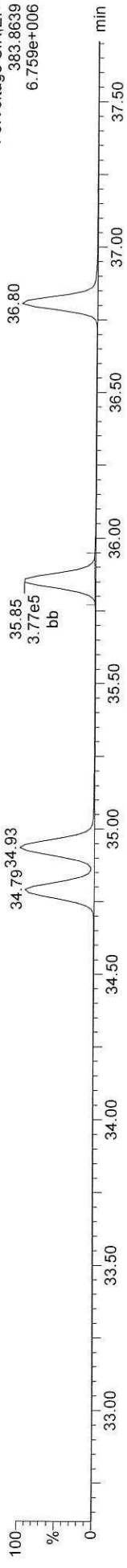
18082011

Quantify Sample Report MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\180820CLIH.qld
Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

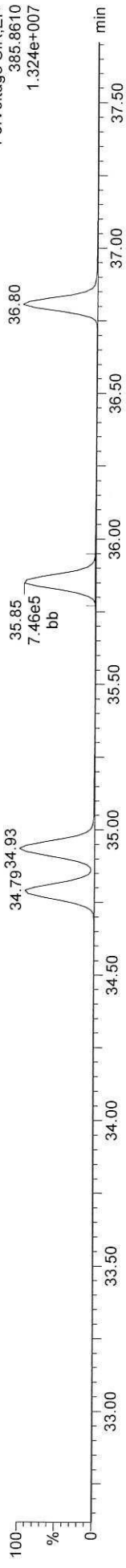
13C-234678-HxCDF

18082011



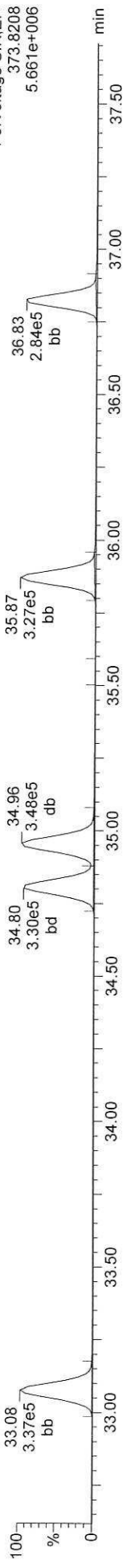
13C-234678-HxCDF

18082011



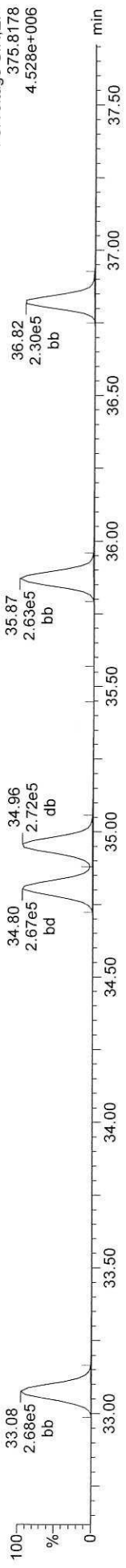
Total-hexafurans

18082011



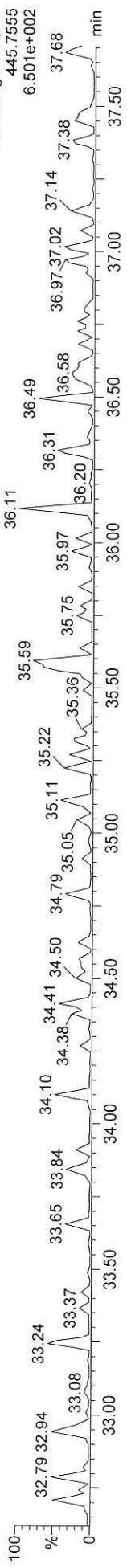
Total-hexafurans

18082011



FUNCTION3 OCDPE

18082011



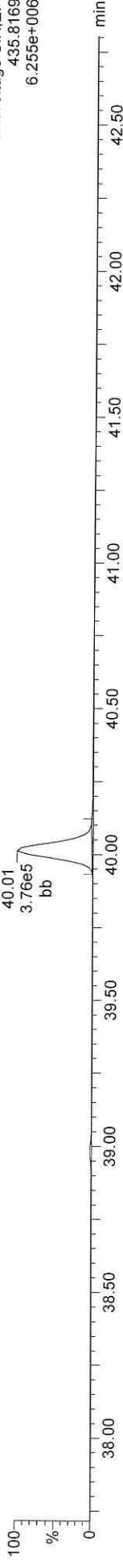
Quantify Sample Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\180820CLIH.qld
Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

13C-1234678-HpCDD

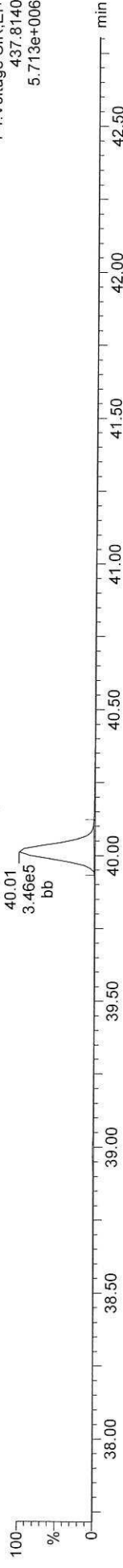
18082011



F4:Voltage SIR,EI+
435.8169
6.255e+006

13C-1234678-HpCDD

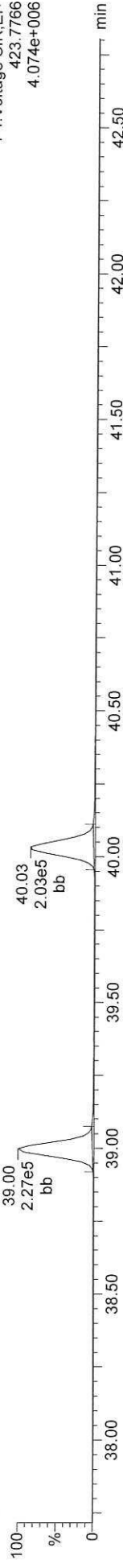
18082011



F4:Voltage SIR,EI+
437.8140
5.713e+006

Total-heptadioxins

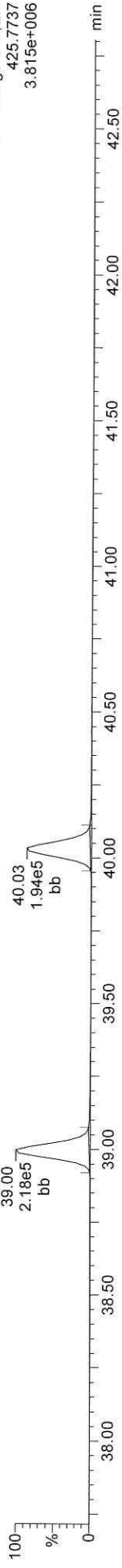
18082011



F4:Voltage SIR,EI+
423.7766
4.074e+006

Total-heptadioxins

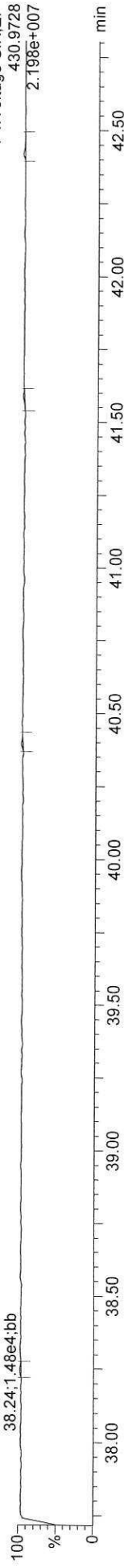
18082011



F4:Voltage SIR,EI+
425.7737
3.815e+006

FUNCTION4 PFK

18082011



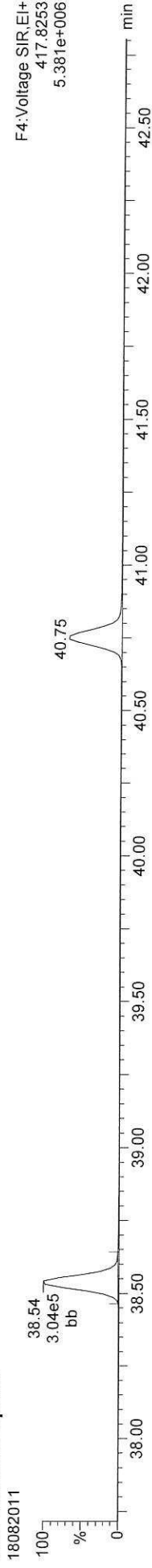
F4:Voltage SIR,EI+
430.9728
2.198e+007

Quantify Sample Report MassLynx MassLynx V4.1 SCN909

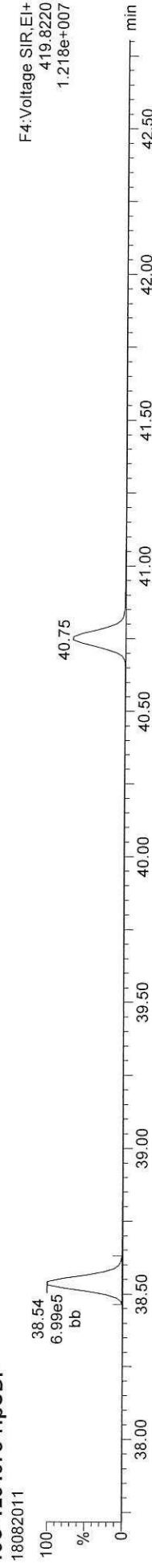
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Last Altered: Tuesday, August 21, 2018 10:21:07 Pacific Daylight Time
Printed: Tuesday, August 21, 2018 10:22:08 Pacific Daylight Time

ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

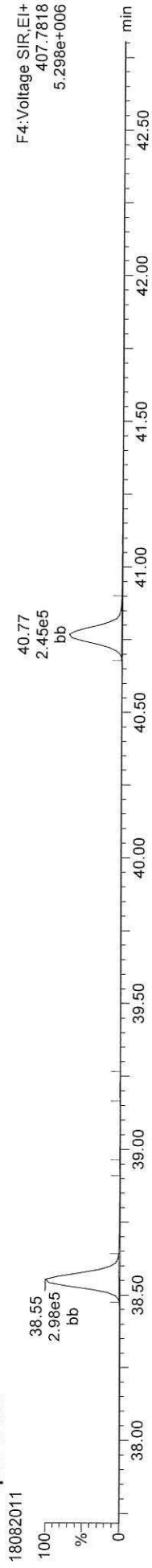
13C-1234678-HpCDF



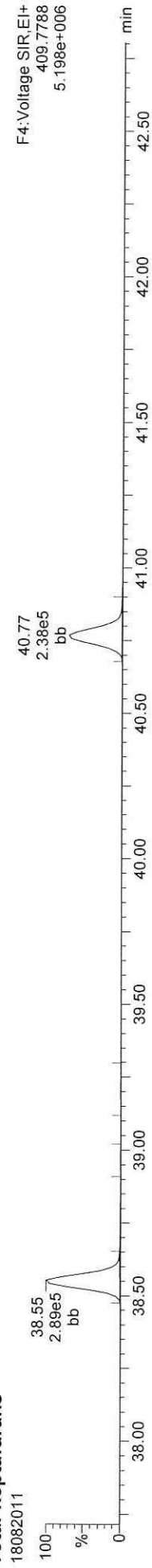
13C-1234678-HpCDF



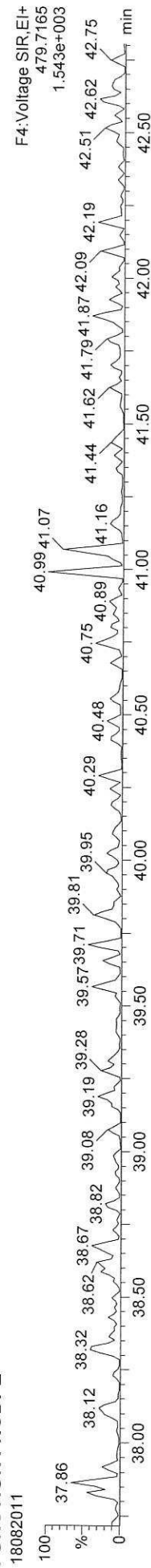
Total-heptafulurans



Total-heptafulurans

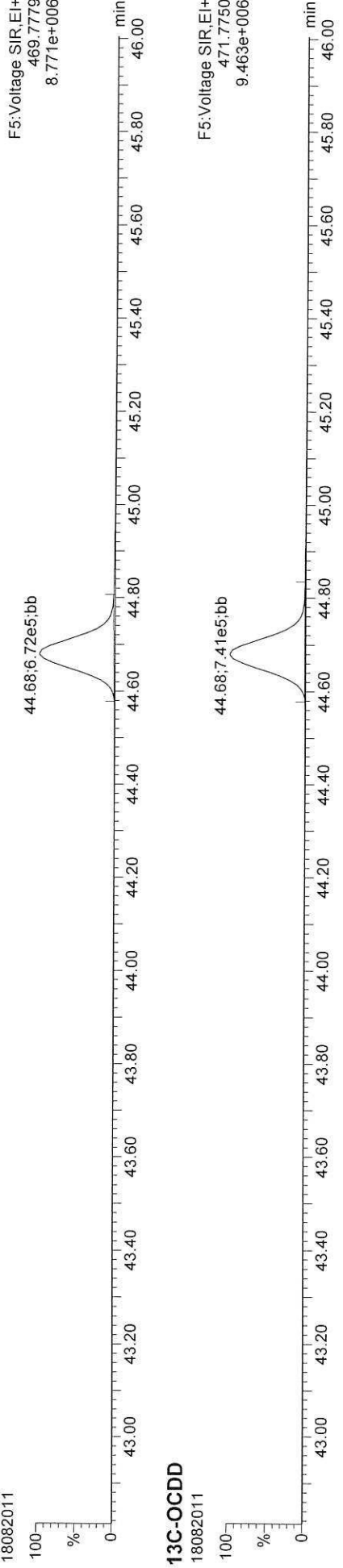


FUNCTION4 NCDPE



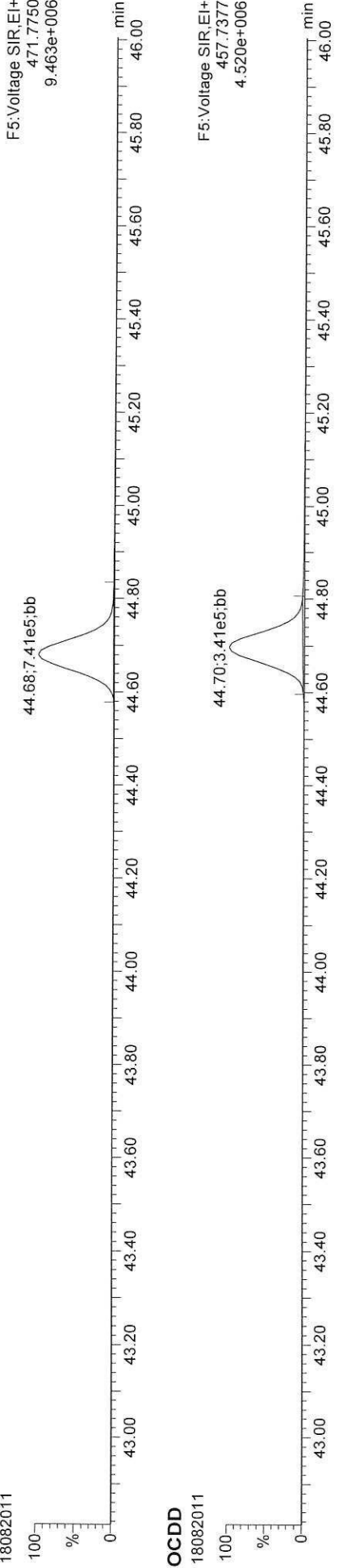
ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

13C-OCDD
18082011



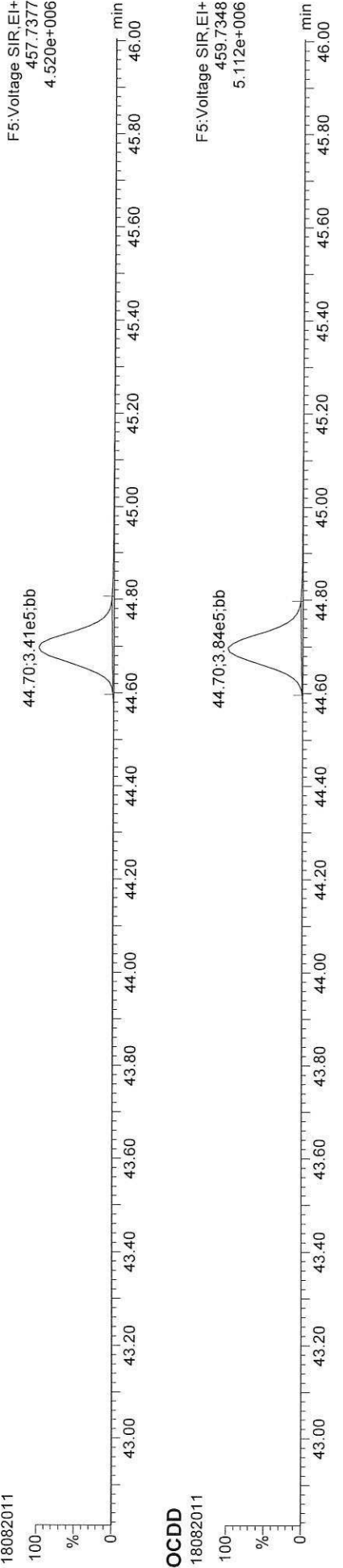
F5:Voltage SIR, EI+
469.7779
8.771e+006

13C-OCDD
18082011



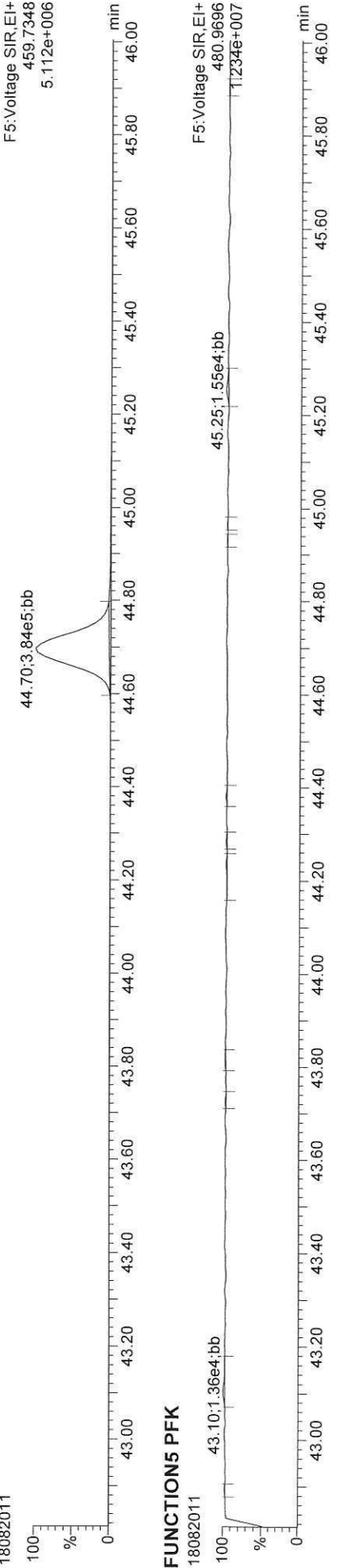
F5:Voltage SIR, EI+
471.7750
9.463e+006

OCDD
18082011



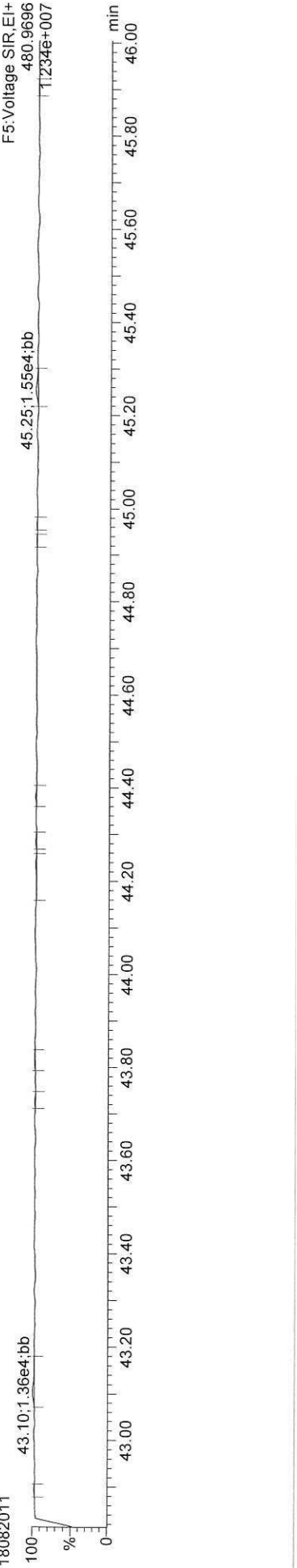
F5:Voltage SIR, EI+
457.7377
4.520e+006

OCDD
18082011



F5:Voltage SIR, EI+
459.7348
5.112e+006

FUNCTION5 PFK
18082011



F5:Voltage SIR, EI+
480.9696
1.1234e+007

ID: ICV, Name: 18082011, Date: 20-Aug-2018, Time: 21:38:12, Conditions: AUTOSPEC01, User: pk

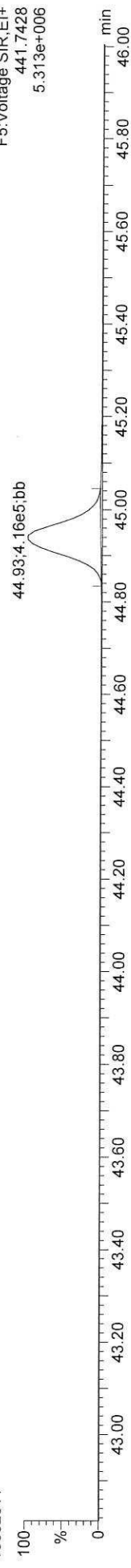
37CL-2378-TCDD

18082011



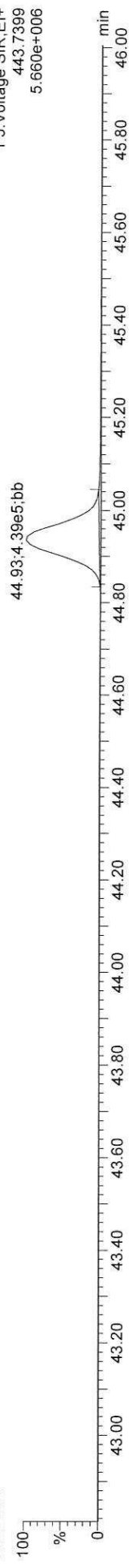
OCDF

18082011



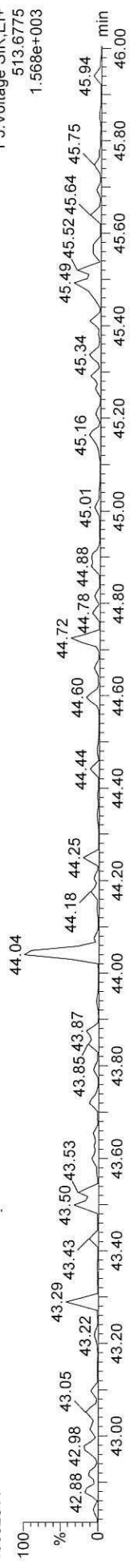
OCDF

18082011



FUNCTION5 DCDPE

18082011





SECOND-SOURCE CALIBRATION VERIFICATION
EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Calibration: BH00060

Laboratory ID: SGH0285-SCV1

Sequence: SGH0285

Sequence Name: SSV

Standard ID: F005391

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,3,7,8-TCDF	10.000	10.0	0.3	20.00
2,3,7,8-TCDD	10.000	12.0	20.1	20.00
1,2,3,7,8-PeCDF	50.000	51.9	3.9	20.00
2,3,4,7,8-PeCDF	50.000	50.9	1.8	20.00
1,2,3,7,8-PeCDD	50.000	52.4	4.8	20.00
1,2,3,4,7,8-HxCDF	50.000	53.4	6.8	20.00
1,2,3,6,7,8-HxCDF	50.000	53.6	7.2	20.00
2,3,4,6,7,8-HxCDF	50.000	53.1	6.2	20.00
1,2,3,7,8,9-HxCDF	50.000	52.1	4.1	20.00
1,2,3,4,7,8-HxCDD	50.000	52.4	4.8	20.00
1,2,3,6,7,8-HxCDD	50.000	52.6	5.2	20.00
1,2,3,7,8,9-HxCDD	50.000	52.6	5.2	20.00
1,2,3,4,6,7,8-HpCDF	50.000	52.3	4.5	20.00
1,2,3,4,7,8,9-HpCDF	50.000	52.6	5.3	20.00
1,2,3,4,6,7,8-HpCDD	50.000	52.6	5.2	20.00
OCDF	100.00	106	5.6	20.00
OCDD	100.00	104	4.3	20.00
13C12-2,3,7,8-TCDF	100.00	99.7	-0.3	20.00
13C12-2,3,7,8-TCDD	100.00	80.4	-19.6	20.00
13C12-1,2,3,7,8-PeCDF	100.00	104	3.8	20.00
13C12-2,3,4,7,8-PeCDF	100.00	111	10.6	20.00
13C12-1,2,3,7,8-PeCDD	100.00	104	3.6	20.00
13C12-1,2,3,4,7,8-HxCDF	100.00	103	3.3	20.00
13C12-1,2,3,6,7,8-HxCDF	100.00	106	5.7	20.00
13C12-2,3,4,6,7,8-HxCDF	100.00	104	4.4	20.00
13C12-1,2,3,7,8,9-HxCDF	100.00	103	3.4	20.00
13C12-1,2,3,4,7,8-HxCDD	100.00	102	2.1	20.00
13C12-1,2,3,6,7,8-HxCDD	100.00	103	3.3	20.00
13C12-1,2,3,4,6,7,8-HpCDF	100.00	103	2.5	20.00
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	1.4	20.00
13C12-1,2,3,4,6,7,8-HpCDD	100.00	98.9	-1.1	20.00
13C12-OCDD	200.00	200	0.1	20.00
37Cl4-2,3,7,8-TCDD	10.000	10.1	0.6	20.00

* Indicates values outside of QC limits



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Calibration: BH00060

Laboratory ID: SGH0285-SCV1

Sequence: SGH0285

Standard ID: F005391

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
OCDF	100.00	106	5.6	20.00
OCDD	100.00	104	4.3	20.00
13C12-2,3,7,8-TCDF	100.00	99.7	-0.3	20.00
13C12-2,3,7,8-TCDD	100.00	80.4	-19.6	20.00
13C12-1,2,3,7,8-PeCDF	100.00	104	3.8	20.00
13C12-2,3,4,7,8-PeCDF	100.00	111	10.6	20.00
13C12-1,2,3,7,8-PeCDD	100.00	104	3.6	20.00
13C12-1,2,3,4,7,8-HxCDF	100.00	103	3.3	20.00
13C12-1,2,3,6,7,8-HxCDF	100.00	106	5.7	20.00
13C12-2,3,4,6,7,8-HxCDF	100.00	104	4.4	20.00
13C12-1,2,3,7,8,9-HxCDF	100.00	103	3.4	20.00
13C12-1,2,3,4,7,8-HxCDD	100.00	102	2.1	20.00
13C12-1,2,3,6,7,8-HxCDD	100.00	103	3.3	20.00
13C12-1,2,3,4,6,7,8-HpCDF	100.00	103	2.5	20.00
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	1.4	20.00
13C12-1,2,3,4,6,7,8-HpCDD	100.00	98.9	-1.1	20.00
13C12-OCDD	200.00	200	0.1	20.00
37Cl4-2,3,7,8-TCDD	10.000	10.1	0.6	20.00

* Values outside of QC limits



INITIAL CALIBRATION CHECK EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Instrument ID: AUTOSPEC01

Calibration: BH00060

Lab File ID: 18100502

Calibration Date: 08/20/18 14:31

Sequence: SGJ0093

Injection Date: 10/05/18

Lab Sample ID: SGJ0093-ICV1

Injection Time: 10:18

Sequence Name: CS3V1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	10.1	0.8337180	0.8410345		0.9	16
2,3,7,8-TCDD	A	10.000	9.98	0.9819180	0.9796887		-0.2	22
1,2,3,7,8-PeCDF	A	50.000	52.7	0.8522416	0.8979426		5.4	18
2,3,4,7,8-PeCDF	A	50.000	54.5	0.9441194	1.0290070		9.0	18
1,2,3,7,8-PeCDD	A	50.000	53.8	1.0287800	1.1061110		7.5	22
1,2,3,4,7,8-HxCDF	A	50.000	53.1	0.9632160	1.0234390		6.3	10
1,2,3,6,7,8-HxCDF	A	50.000	52.8	0.9172847	0.9677700		5.5	12
2,3,4,6,7,8-HxCDF	A	50.000	52.0	0.9906397	1.0312010		4.1	12
1,2,3,7,8,9-HxCDF	A	50.000	52.5	0.9375054	0.9838068		4.9	10
1,2,3,4,7,8-HxCDD	A	50.000	51.5	0.9208855	0.9486302		3.0	22
1,2,3,6,7,8-HxCDD	A	50.000	53.3	0.9039972	0.9629867		6.5	22
1,2,3,7,8,9-HxCDD	A	50.000	49.8	0.9178071	0.9141938		-0.4	18
1,2,3,4,6,7,8-HpCDF	A	50.000	51.4	1.1193550	1.1508310		2.8	10
1,2,3,4,7,8,9-HpCDF	A	50.000	51.3	1.1620560	1.1924930		2.6	14
1,2,3,4,6,7,8-HpCDD	A	50.000	53.2	1.0464960	1.1136610		6.4	14
OCDF	A	100.00	108	1.1449950	1.2386260		8.2	37
OCDD	A	100.00	104	0.9837584	1.0206160		3.7	21
13C12-2,3,7,8-TCDF	A	100.00	104	1.8466610	3.8536029		4.3	29
13C12-2,3,7,8-TCDD	A	100.00	97.8	1.1711480	2.2918819		-2.2	18
13C12-1,2,3,7,8-PeCDF	A	100.00	110	1.5576870	3.4408898		10.4	24
13C12-2,3,4,7,8-PeCDF	A	100.00	109	1.5436530	3.3552280		8.7	23
13C12-1,2,3,7,8-PeCDD	A	100.00	103	0.8859776	1.8168507		2.5	38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	105	1.1524190	2.4272755		5.3	24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	110	1.2251980	2.7022429		10.3	30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	107	1.1036650	2.3657297		7.2	27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	102	1.0456580	2.1306808		1.9	26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	104	1.0268910	2.1432662		4.4	15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	110	1.0551470	2.3194443		9.9	15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	120	1.0044640	2.4077317		19.9	22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	117	0.7987185	1.8677985		16.9	23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	109	0.7490178	1.6287967		8.7	18

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>BH00060</u>
Lab File ID:	<u>18100502</u>	Calibration Date:	<u>08/20/18 14:31</u>
Sequence:	<u>SGJ0093</u>	Injection Date:	<u>10/05/18</u>
Lab Sample ID:	<u>SGJ0093-ICV1</u>	Injection Time:	<u>10:18</u>
Sequence Name:	<u>CS3V1</u>		

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-OCDD	A	200.00	229	0.7247910	1.6630749		14.7	52
37C14-2,3,7,8-TCDD	A	10.000	9.96	1.1205810	2.2320848		-0.4	

* Values outside of QC limits

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

Dataset: T:\Autospec\Processed Data Batch\181005OP.qld

Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time

Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb **25 Sep 2018 11:22:36**

Calibration: T:\Autospec\Curves\180820ICH.cdb **21 Aug 2018 11:13:54**

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	SN 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.618	1.001	7.993e4	1.076e5	0.834	0.743	0.770	900	2255	1.25e6	1.65e6	1386.5	YES	NO	bb	bb	10.088
12378-PeCDF	29.770	1.001	5.607e5	3.334e5	0.852	1.682	1.550	3953	3000	8.68e6	5.15e6	2196.6	YES	NO	bb	bb	52.681
23478-PeCDF	31.117	1.001	6.288e5	3.703e5	0.944	1.698	1.550	3953	3000	9.73e6	5.75e6	2460.6	YES	NO	bb	bb	54.496
123478-HxCDF	34.801	1.001	3.850e5	3.101e5	0.963	1.241	1.240	2651	2375	5.84e6	4.68e6	2203.2	YES	NO	bd	bd	53.126
234678-HxCDF	35.869	1.001	3.790e5	3.036e5	0.991	1.248	1.240	2651	2375	6.12e6	4.87e6	2309.4	YES	NO	bb	bb	52.047
123678-HxCDF	34.945	1.001	4.061e5	3.256e5	0.917	1.247	1.240	2651	2375	6.01e6	4.80e6	2288.6	YES	NO	db	db	52.752
123789-HxCDF	36.826	1.001	3.247e5	2.618e5	0.938	1.240	1.240	2651	2375	5.68e6	4.48e6	2140.9	YES	NO	bb	bb	52.469
1234678-HpCDF	38.552	1.000	3.935e5	3.818e5	1.119	1.031	1.050	2491	2800	6.73e6	6.44e6	2702.1	YES	NO	bb	bb	51.406
1234789-HpCDF	40.766	1.000	3.181e5	3.051e5	1.162	1.042	1.050	2491	2800	4.64e6	4.46e6	1862.3	YES	NO	bb	bb	51.310
OCDF	44.943	1.006	5.587e5	5.941e5	1.145	0.940	0.890	1667	4424	6.64e6	6.95e6	3983.3	YES	NO	bb	bb	108.177
2378-TCDD	26.253	1.001	5.807e4	7.187e4	0.982	0.808	0.770	1405	979	8.98e5	1.11e6	639.4	YES	NO	bb	bb	9.977
12378-PeCDD	31.361	1.000	3.595e5	2.220e5	1.029	1.619	1.550	2494	2093	5.63e6	3.48e6	2256.5	YES	NO	bb	bb	53.758
123478-HxCDD	35.981	1.000	3.143e5	2.546e5	0.921	1.234	1.240	1904	1946	5.34e6	4.31e6	2802.9	YES	NO	bd	bd	51.506
123678-HxCDD	36.092	1.000	3.457e5	2.793e5	0.904	1.238	1.240	1904	1946	5.66e6	4.56e6	2975.5	YES	NO	db	db	53.263
123789-HxCDD	36.459	1.010	3.156e5	2.552e5	0.918	1.237	1.240	1904	1946	5.25e6	4.26e6	2759.1	YES	NO	bb	bb	49.802
1234678-HpCDD	40.032	1.000	2.624e5	2.451e5	1.046	1.071	1.050	2776	1634	4.06e6	3.82e6	1461.2	YES	NO	bb	bb	53.209
OCDD	44.705	1.000	4.465e5	5.034e5	0.984	0.887	0.890	1997	1768	5.40e6	6.06e6	2704.9	YES	NO	bb	bb	103.747
13C-2378-TCDF	25.603	1.008	9.859e5	1.244e6	1.847	0.792	0.770	6489	2913	1.49e7	1.87e7	2294.9	YES	NO	bb	bb	104.340
13C-12378-PeCDF	29.747	1.171	1.222e6	7.696e5	1.558	1.587	1.550	3572	3051	1.87e7	1.19e7	5231.8	YES	NO	bb	bb	110.449
13C-23478-PeCDF	31.094	1.224	1.189e6	7.533e5	1.544	1.578	1.550	3572	3051	1.84e7	1.17e7	5151.4	YES	NO	bb	bb	108.678
13C-123478-HxCDF	34.778	0.954	4.511e5	9.073e5	1.152	0.497	0.510	2906	3158	6.82e6	1.35e7	2347.9	YES	NO	bd	bd	105.312
13C-123678-HxCDF	34.923	0.958	5.042e5	1.008e6	1.225	0.500	0.510	2906	3158	7.34e6	1.47e7	2525.4	YES	NO	db	db	110.278
13C-234678-HxCDF	35.847	0.984	4.462e5	8.777e5	1.104	0.508	0.510	2906	3158	7.00e6	1.37e7	2410.2	YES	NO	bb	bb	107.176
13C-123789-HxCDF	36.804	1.010	4.012e5	7.911e5	1.046	0.507	0.510	2906	3158	6.92e6	1.37e7	2382.5	YES	NO	bb	bb	101.882
13C-1234678-HpCDF	38.541	1.058	4.185e5	9.289e5	1.004	0.451	0.440	2139	3208	6.76e6	1.52e7	3159.4	YES	NO	bd	bb	119.852
13C-1234789-HpCDF	40.756	1.119	3.211e5	7.242e5	0.799	0.443	0.440	2139	3208	4.56e6	1.02e7	2131.9	YES	NO	bb	bb	116.925
13C-1234-TCDD	25.407	0.000	5.020e5	6.555e5	1.000	0.766	0.770	2140	1097	7.73e6	1.01e7	3610.3	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.223	1.032	5.759e5	7.505e5	1.171	0.767	0.770	2140	1097	8.51e6	1.12e7	3975.0	YES	NO	bb	bb	97.848
13C-12378-PeCDD	31.350	1.234	6.522e5	3.992e5	0.886	1.634	1.550	880	1058	9.98e6	6.09e6	11338.8	YES	NO	bb	bb	102.534
13C-123478-HxCDD	35.970	0.987	6.769e5	5.225e5	1.027	1.296	1.240	3098	1458	1.13e7	8.65e6	3635.5	YES	NO	bd	bd	104.357
13C-123678-HxCDD	36.081	0.990	7.323e5	5.657e5	1.055	1.294	1.240	3098	1458	1.19e7	9.26e6	3827.2	YES	NO	db	db	109.911
13C-1234678-HpCDD	40.021	1.098	4.746e5	4.369e5	0.749	1.086	1.050	2169	1708	7.19e6	6.52e6	3314.3	YES	NO	bb	bb	108.729
13C-OCDD	44.696	1.227	8.735e5	9.879e5	0.725	0.884	0.890	2701	1883	1.01e7	1.10e7	3736.4	YES	NO	bd	bd	229.456
13C-123789-HxCDD	36.437	0.000	6.232e5	4.960e5	1.000	1.256	1.240	3098	1458	1.06e7	8.58e6	3427.2	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.253	1.033	1.292e5	1.121	1.121			1138		2.01e6		1766.0	YES		bb		9.959

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

Dataset: T:\Autospec\Processed Data Batch\181005OP.qld

Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time

Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1368-TCDF	22.098	0.863	9.399e4	1.304e5	1.020	0.721	0.770	900	2255	1.60e6	2.20e6	1778.8	YES	NO	bb	bb	9.863
1289-TCDF	27.114	1.059	7.727e4	1.028e5	0.818	0.752	0.770	900	2255	1.14e6	1.52e6	1269.7	YES	NO	db	db	9.867
13468-PECDF	26.963	0.906	6.320e5	4.063e5	1.163	1.555	1.550	356	891	9.62e6	6.17e6	26990.9	YES	NO	bb	bb	44.827
12389-PECDF	32.152	1.081	5.650e5	3.465e5	0.912	1.630	1.550	3953	3000	8.47e6	5.09e6	2141.7	YES	NO	bb	bd	50.167
123468-HXCDF	33.064	0.951	3.970e5	3.185e5	1.051	1.246	1.240	2651	2375	6.13e6	4.94e6	2310.8	YES	NO	bb	bb	50.103
1368-TCDD	23.382	0.892	6.160e4	7.869e4	1.026	0.763	0.770	1405	979	9.82e5	1.26e6	698.8	YES	NO	bb	bb	10.306
1289-TCDD	26.842	1.024	5.553e4	7.026e4	0.938	0.790	0.770	1405	979	8.21e5	1.03e6	584.9	YES	NO	bb	bb	10.112
12479-PECDD	28.635	0.913	6.125e5	3.852e5	1.807	1.590	1.550	2494	2093	5.98e6	3.80e6	2399.0	YES	NO	bb	bb	52.505
12389-PECDD	31.762	1.013	4.341e5	2.674e5	1.326	1.623	1.550	2494	2093	6.56e6	4.00e6	2630.2	YES	NO	bb	bb	50.307
124679-HXCDD	33.855	0.941	3.427e5	2.755e5	1.031	1.244	1.240	1904	1946	5.21e6	4.23e6	2734.4	YES	NO	bb	bb	49.971
1234679-HPCDD	38.997	0.974	2.964e5	2.809e5	1.228	1.055	1.050	2776	1634	5.03e6	4.73e6	1813.2	YES	NO	bb	bb	51.580
Total-tetrafurans			2.545e5		0.891			900		4.04e6							30.195
Total-penta1			6.321e5					356		9.62e6							44.839
Total-pentafurans			1.849e6		0.903			3953		2.84e7							165.832
Total-hexafurans			1.892e6		0.972			2651		2.98e7							260.497
Total-heptafurans			7.125e5		1.141			2491		1.14e7							102.828
Total-Furans			5.898e6		0.989			900		8.98e7							712.369
Total-tetraoxins			3.059e5		0.982			1405		4.28e6							52.788
Total-pentadioxins			1.409e6		1.387			2494		1.82e7							156.854
Total-hexadioxins			1.321e6		0.944			1904		2.15e7							204.874
Total-heptadioxins			5.590e5		1.137			2776		9.10e6							104.821
Total-Dioxins			4.040e6		1.088			1405		5.85e7							623.084
Total-TEQ			9.939e6					1405		1.48e8							1335.453
FUNCTION1 PFK			4.254e6					1177498		5.52e7							0.000
FUNCTION2 PFK			5.257e5					634658		1.19e7							0.000
FUNCTION3 PFK			2.432e5					704562		8.43e6							
FUNCTION4 PFK			3.220e6					535886		4.73e7							
FUNCTION5 PFK			7.279e5					462454		2.04e7							
FUNCTION1 HXCD...			7.744e1					354		1.59e3							0.000
FUNCTION1 HPCD...			0.000e0					724		0.00e0							
FUNCTION2 HPCD...			4.002e2					552		5.63e3							0.000
FUNCTION3 OCDPE			0.000e0					549		0.00e0							
FUNCTION4 NCDPE			0.000e0					432		0.00e0							
FUNCTION5 DCDPE			0.000e0					357		0.00e0							

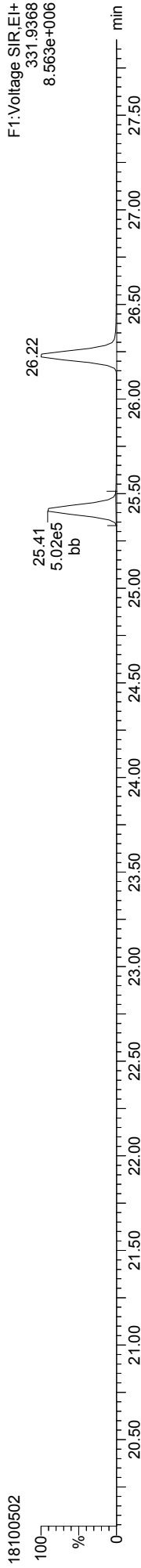
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005OP.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

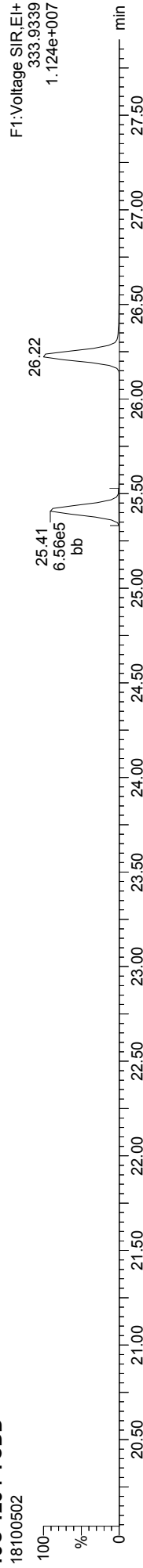
Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

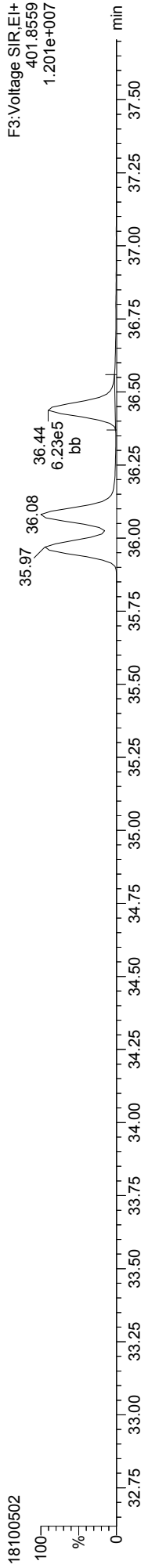
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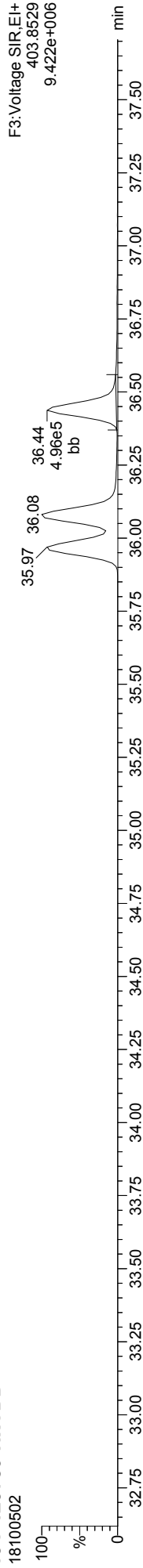
13C-1234-TCDD



13C-123789-HxCDD



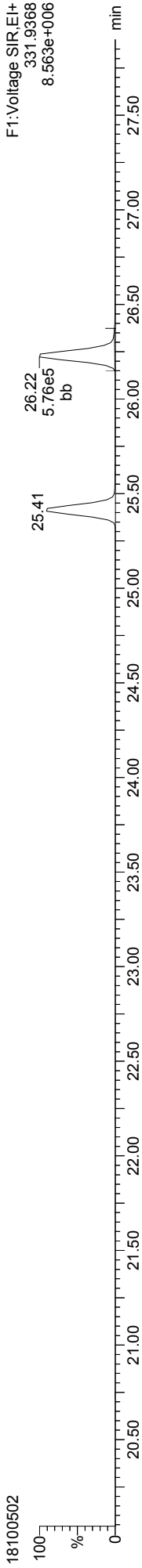
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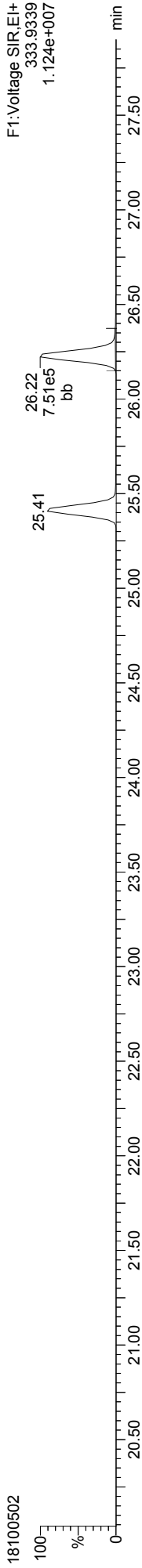
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\1810050P.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

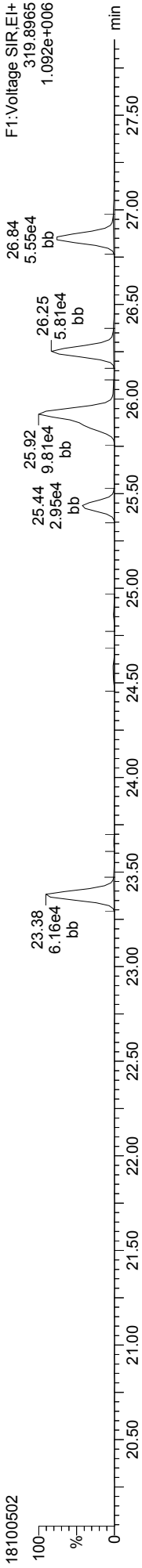
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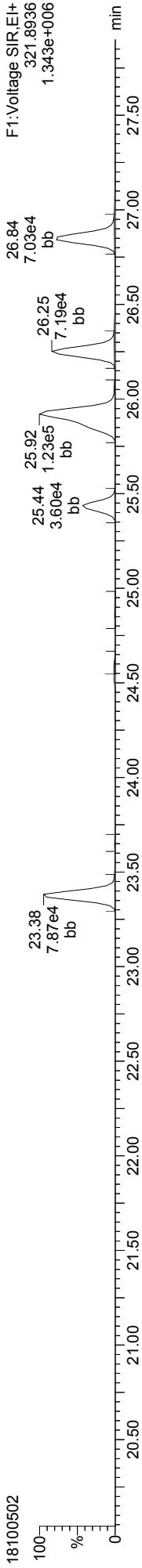
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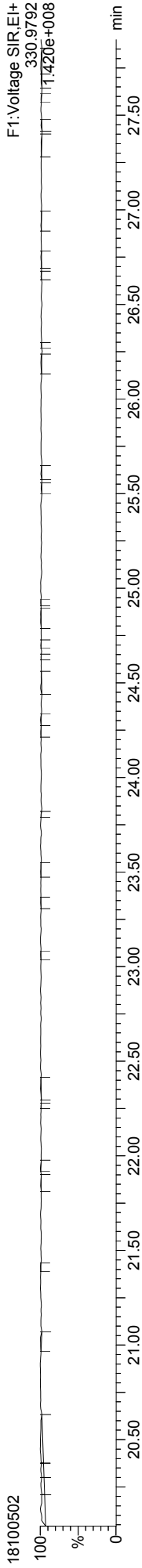
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK

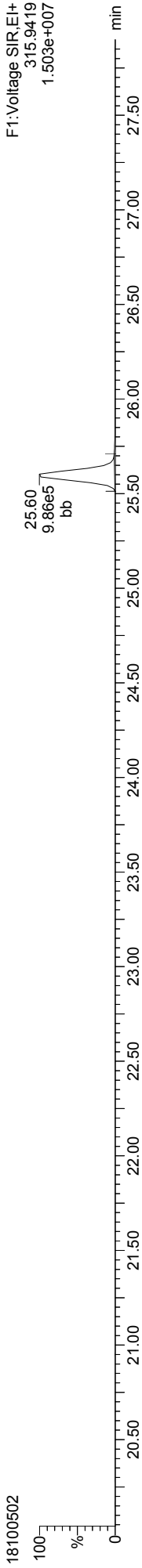


Quantify Sample Report

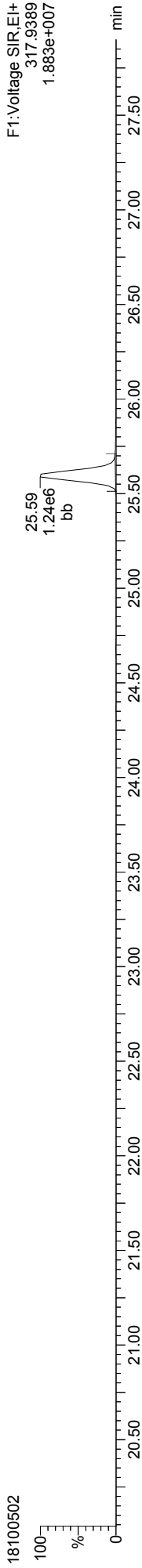
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005OP.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

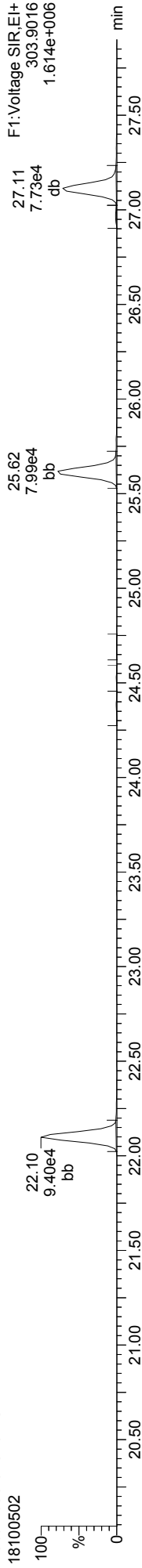
13C-2378-TCDF



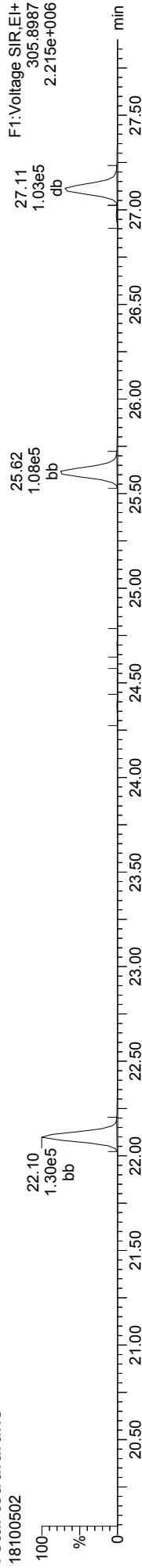
13C-2378-TCDF



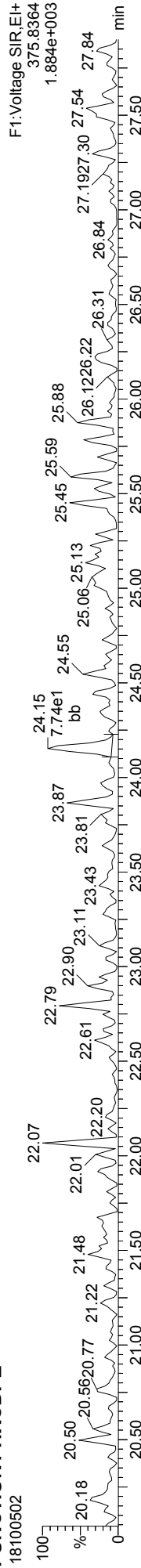
Total-tetrafurans



Total-tetrafurans



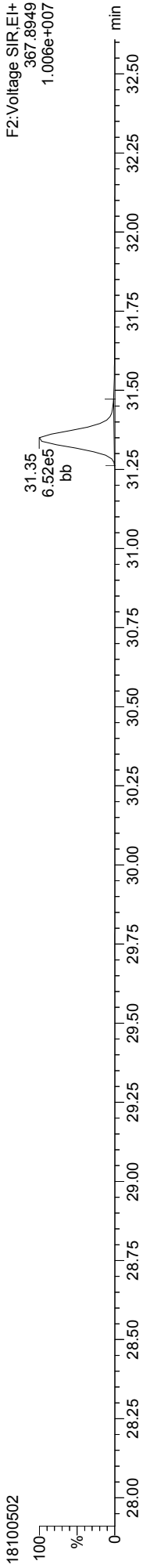
FUNCTION1 HXCDFE



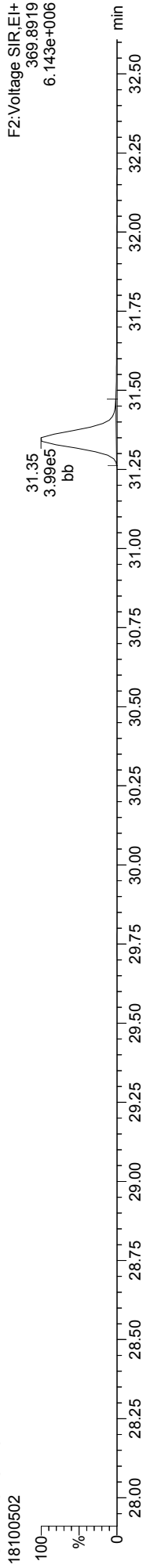
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005OP.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

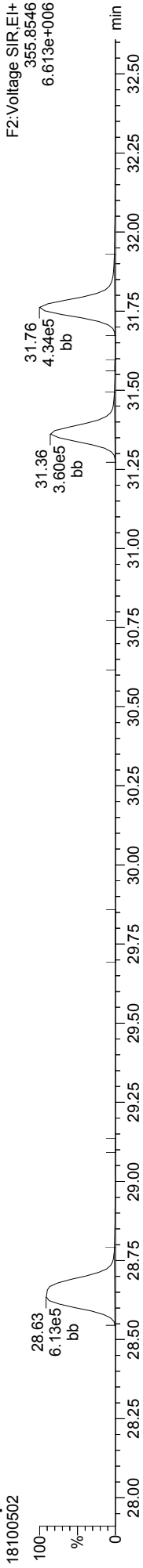
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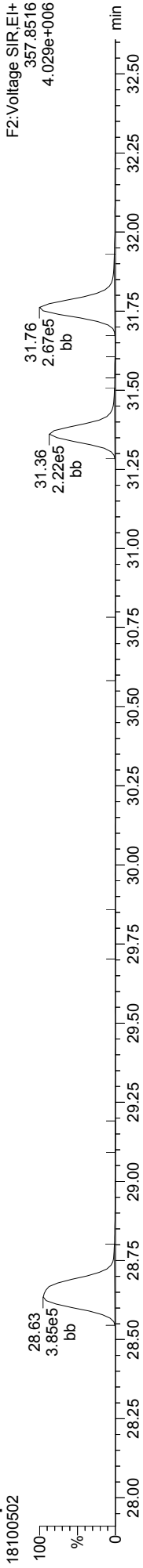
13C-12378-PeCDD



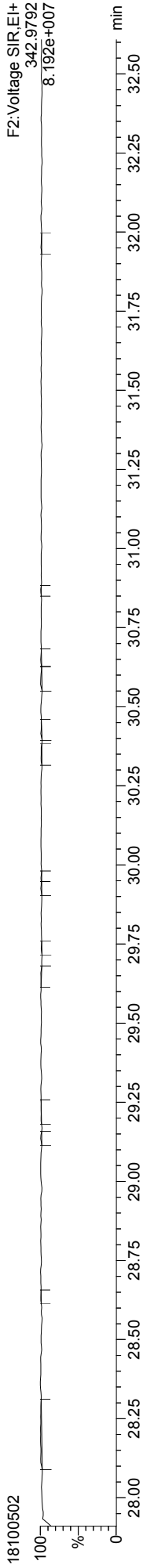
Total-pentadioxins



Total-pentadioxins



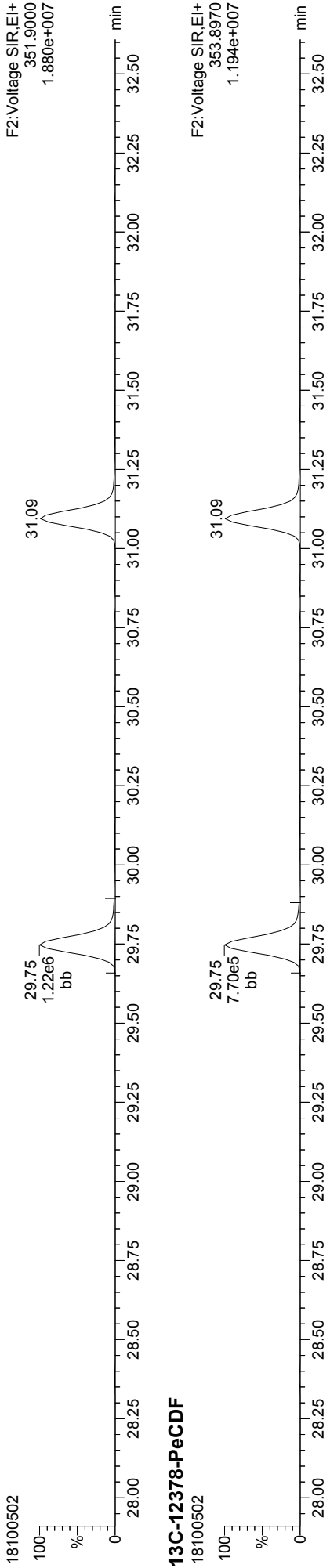
FUNCTION2 PFK



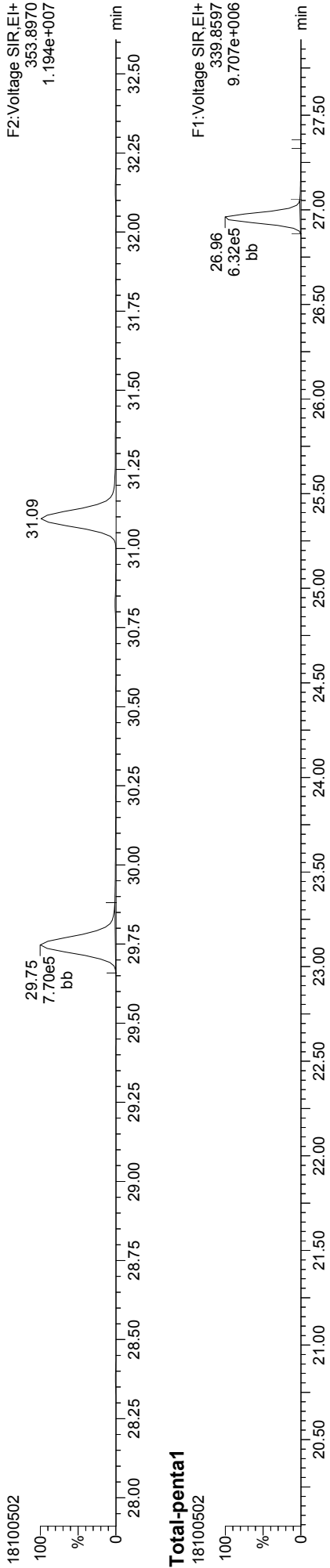
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\1810050P.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

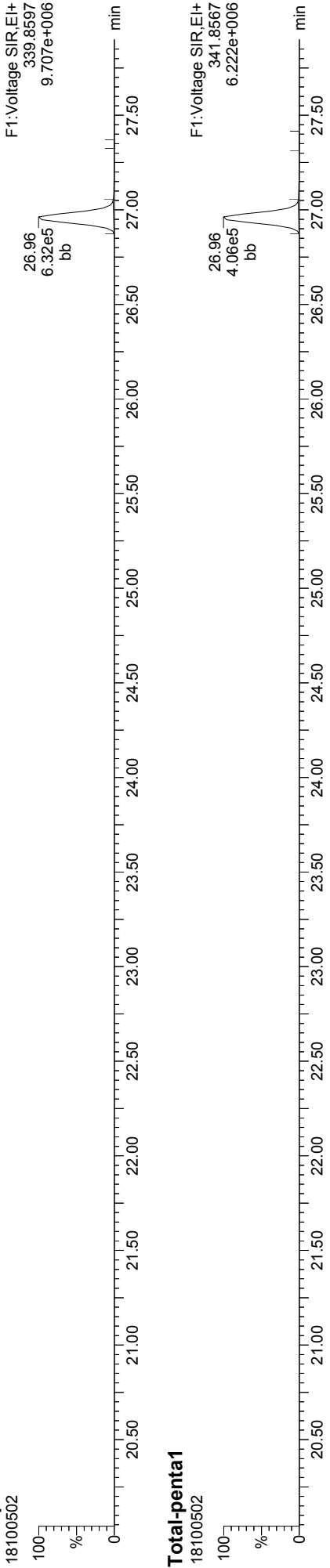
13C-12378-PeCDF



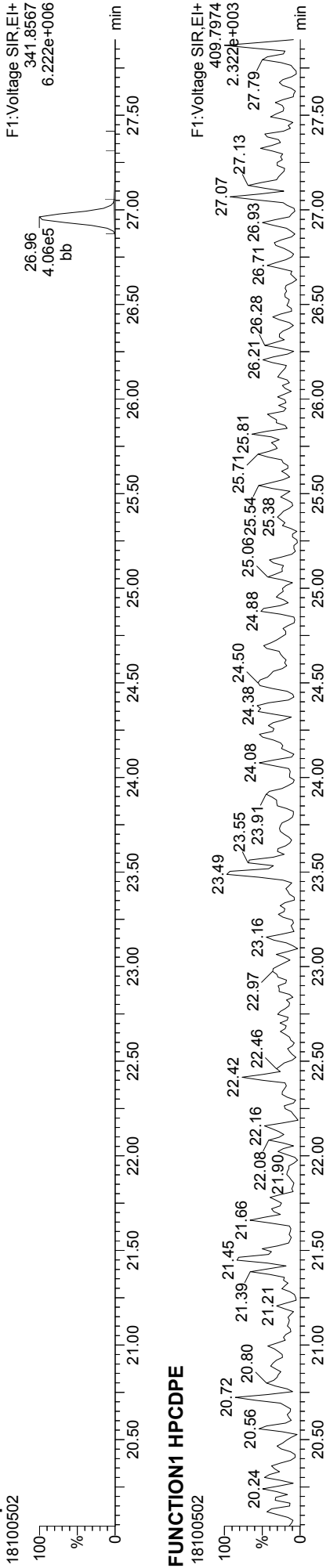
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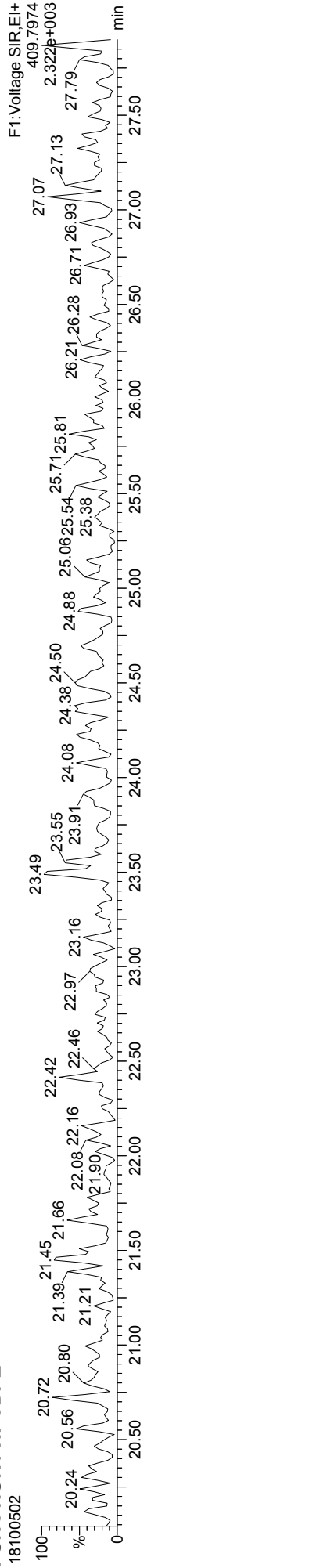
Total-penta1



Total-penta1



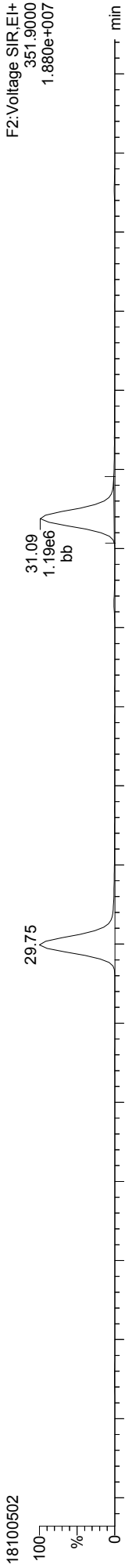
FUNCTION1 HPCDFE



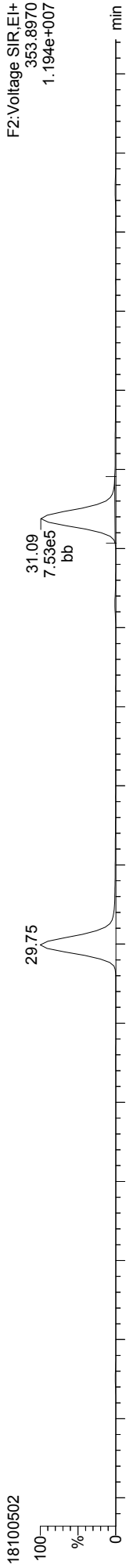
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\1810050P.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
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ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

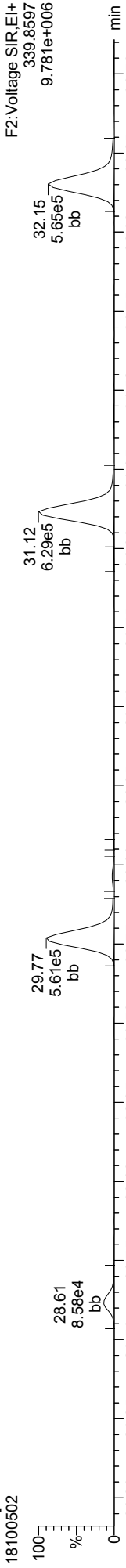
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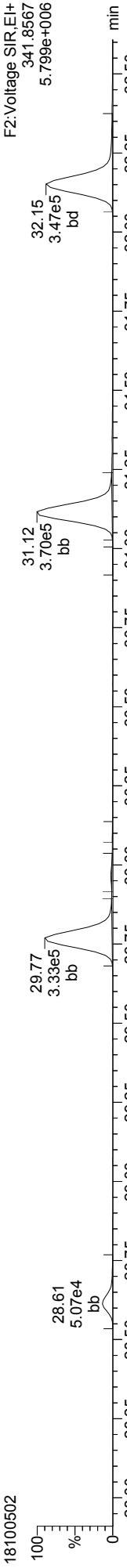
13C-23478-PeCDF



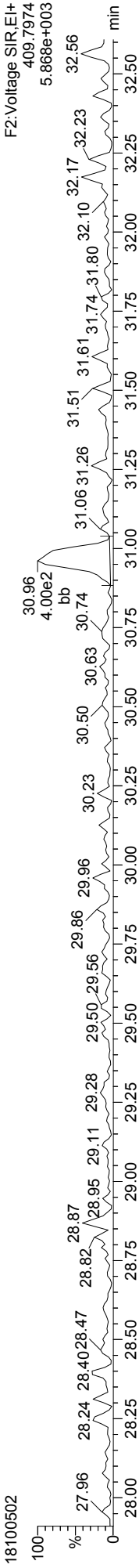
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

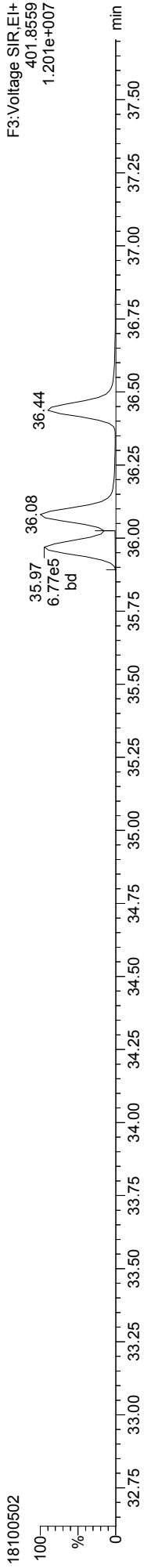


Quantify Sample Report

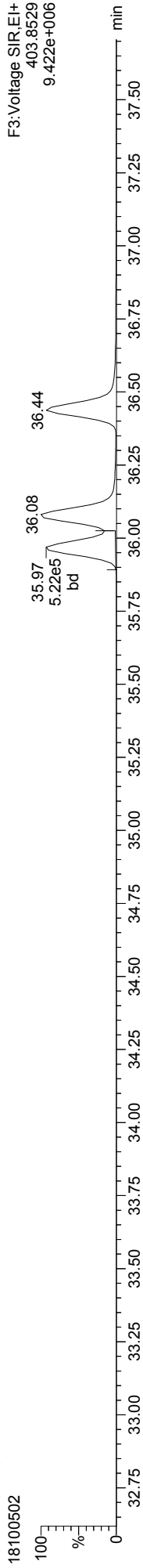
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005OP.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
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ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

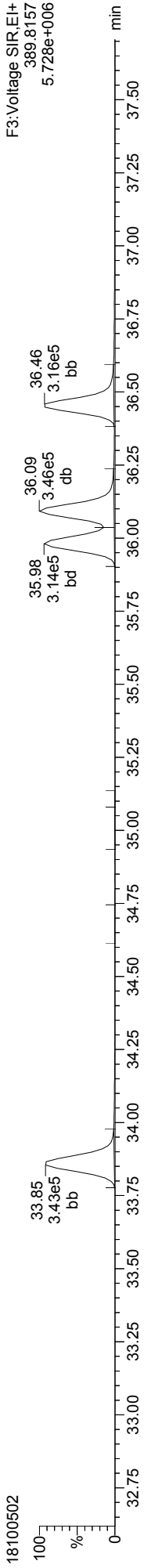
13C-123478-HxCDD



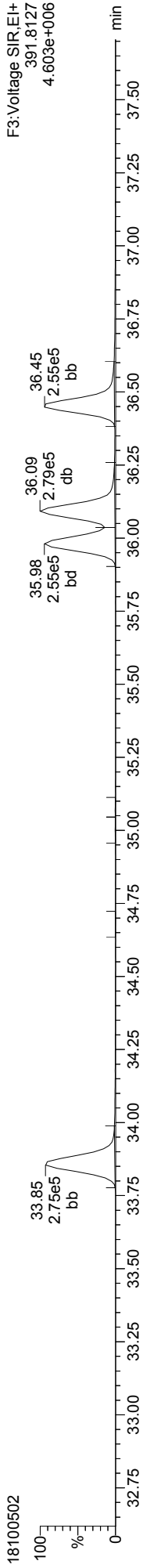
13C-123478-HxCDD



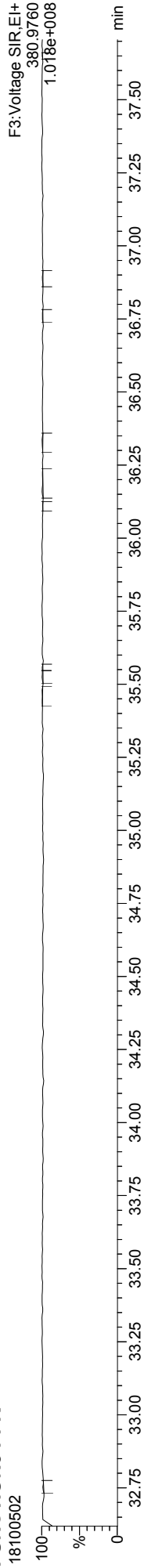
Total-hexadioxins



Total-hexadioxins



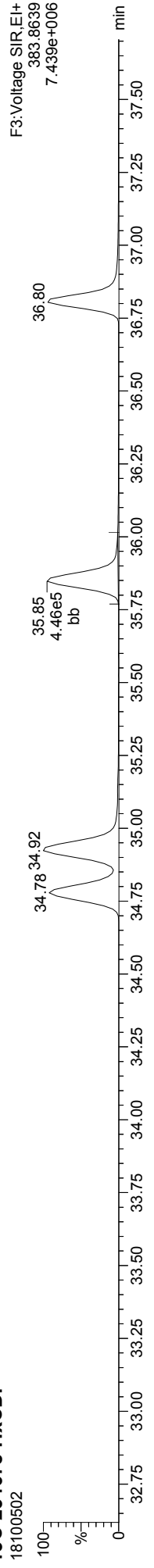
FUNCTION3 PFK



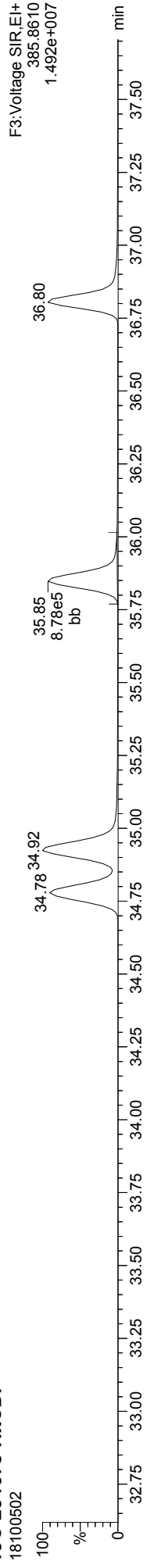
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Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

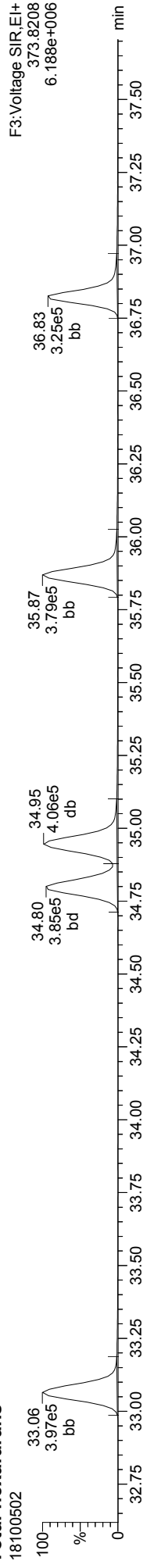
13C-234678-HxCDF



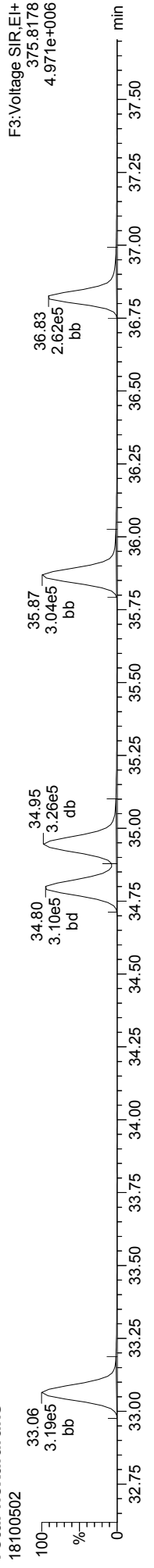
13C-234678-HxCDF



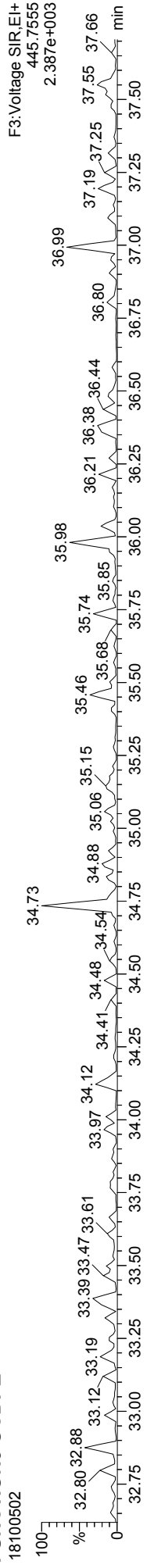
Total-hexafurans



Total-hexafurans



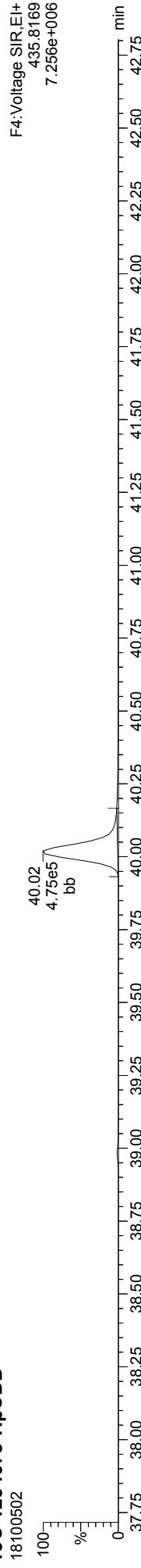
FUNCTION3 OCDPE



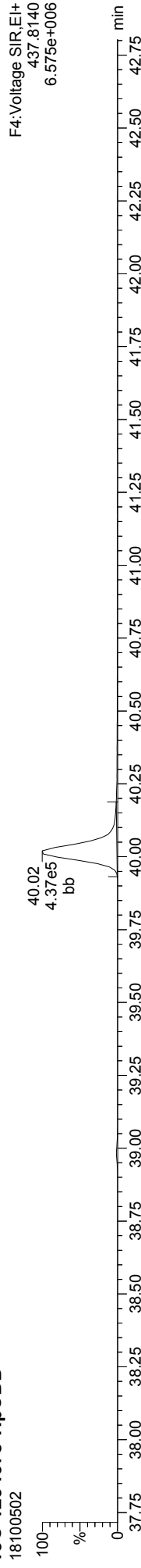
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\181005OP.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

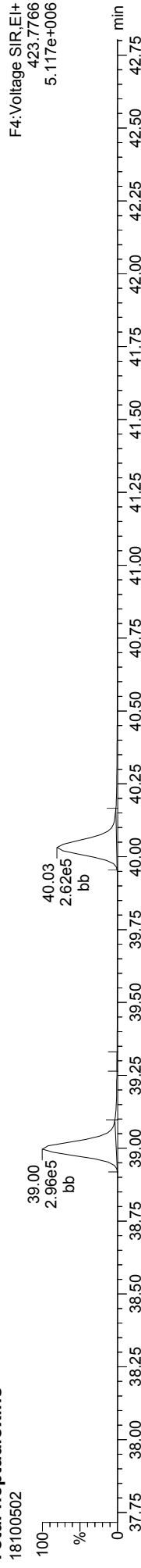
13C-1234678-HpCDD



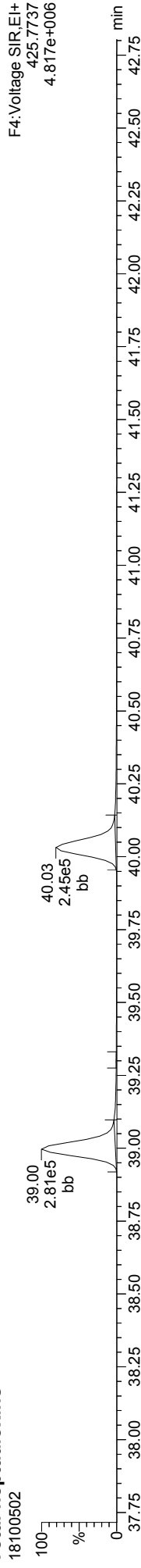
13C-1234678-HpCDD



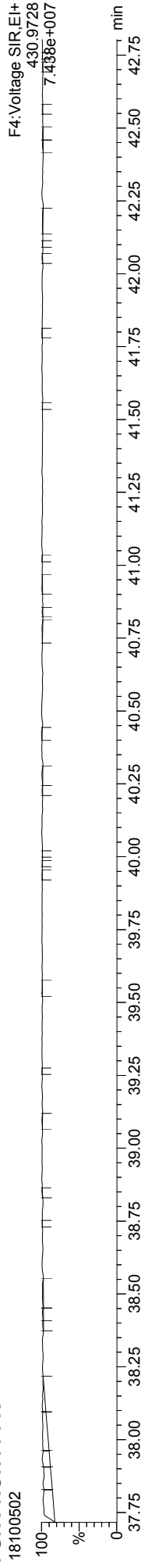
Total-heptadioxins



Total-heptadioxins



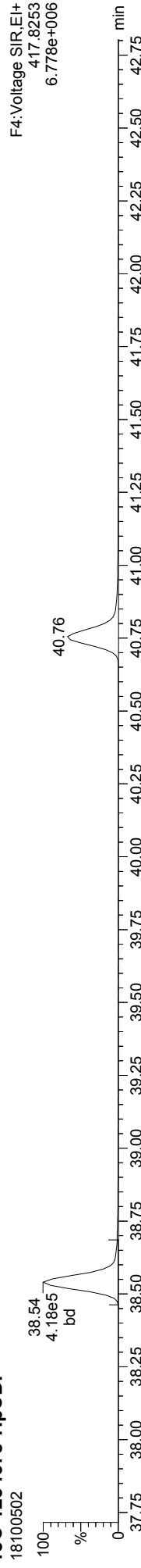
FUNCTION4 PFK



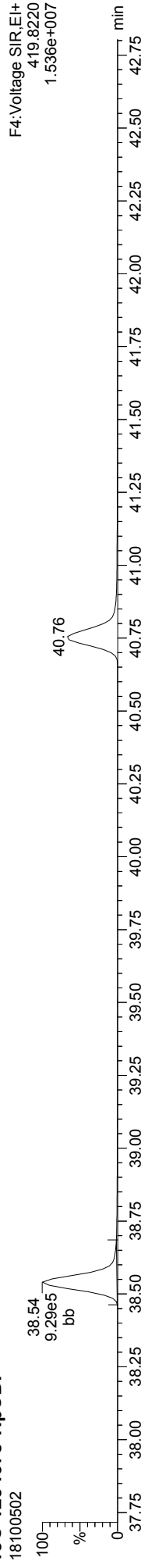
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ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

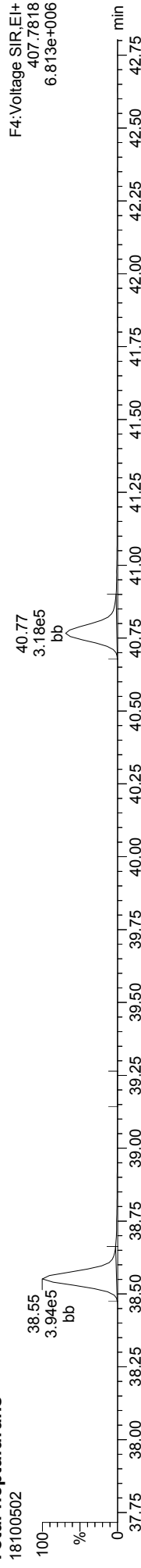
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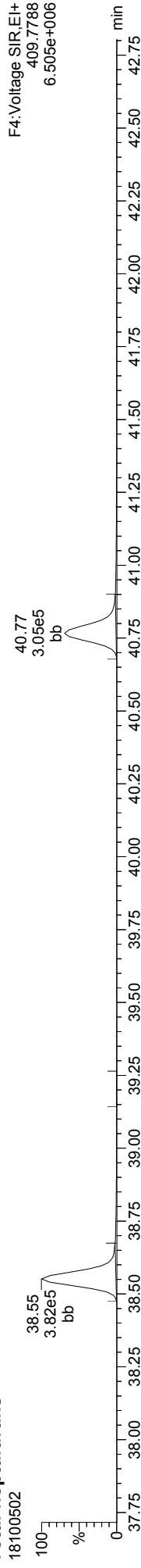
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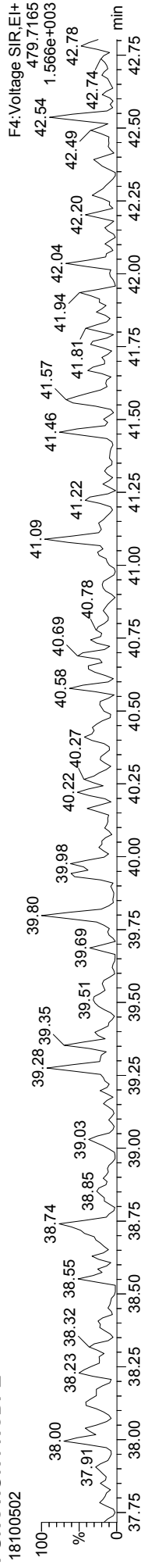
Total-heptafurans



Total-heptafurans



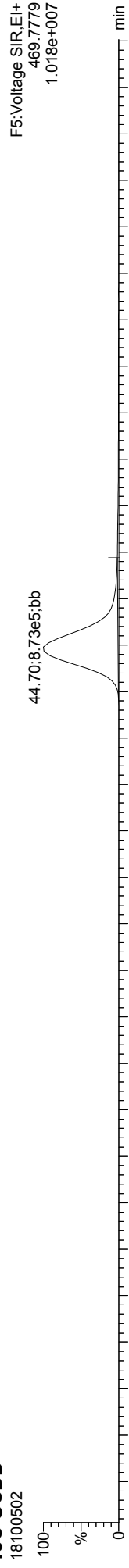
FUNCTION4 NCDPF



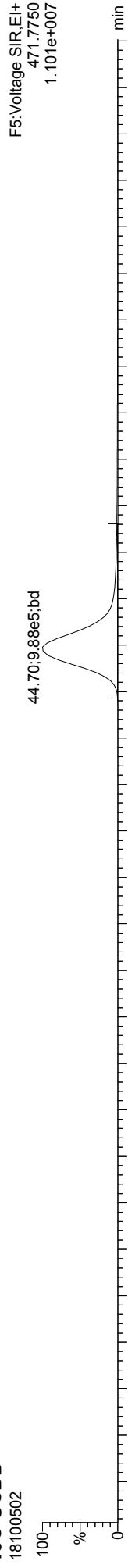
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\181005OP.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

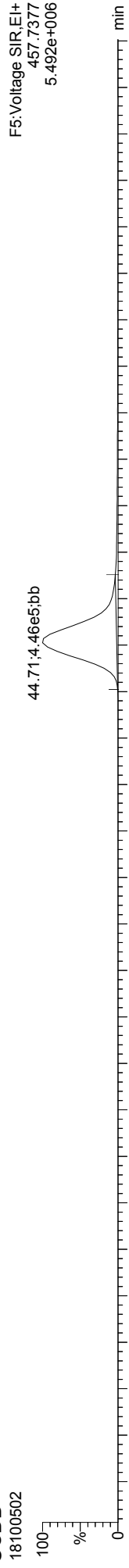
13C-OCDD



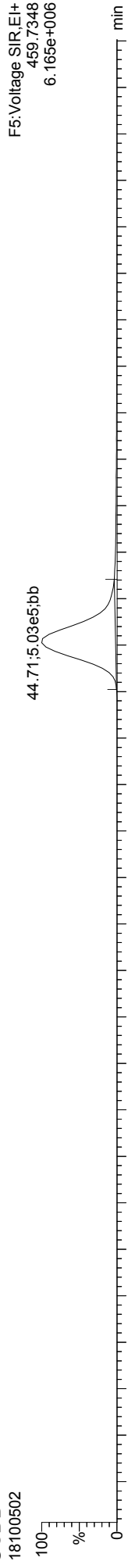
13C-OCDD



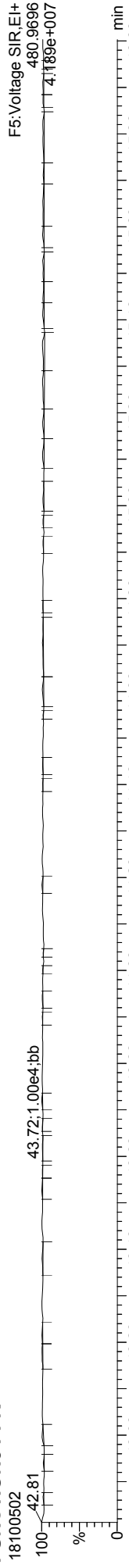
OCDD



OCDD



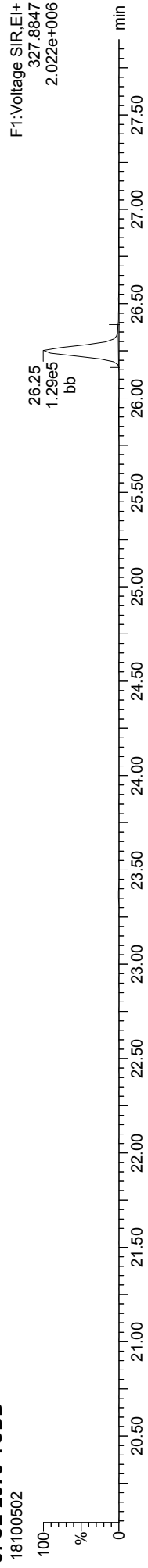
FUNCTION5 PFK



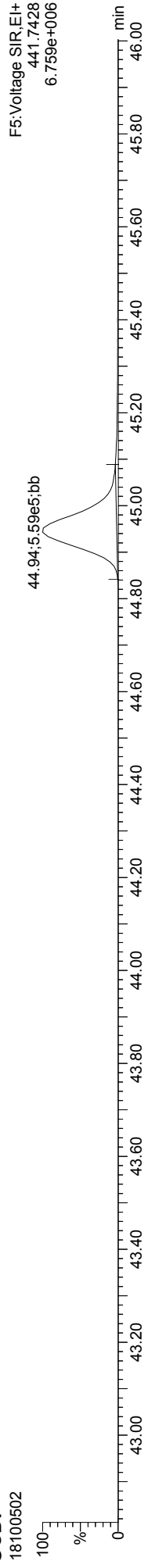
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005OP.qld
Last Altered: Friday, October 05, 2018 12:13:02 Pacific Daylight Time
Printed: Friday, October 05, 2018 12:13:35 Pacific Daylight Time

ID: CS3V1, Name: 18100502, Date: 05-Oct-2018, Time: 10:18:36, Conditions: AUTOSPEC01, User: PK

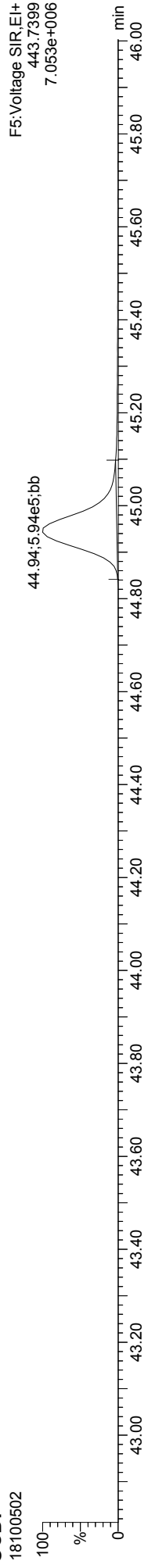
37CL-2378-TCDD



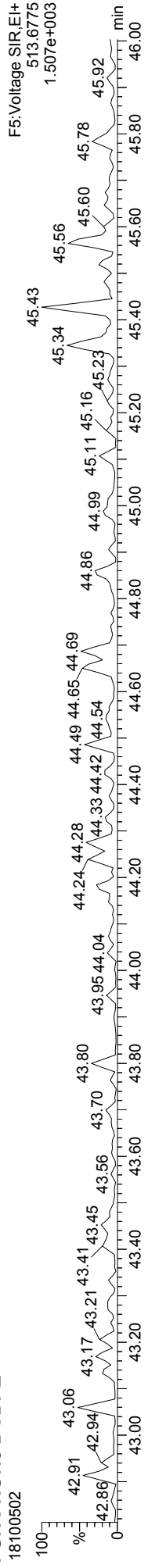
OCDF



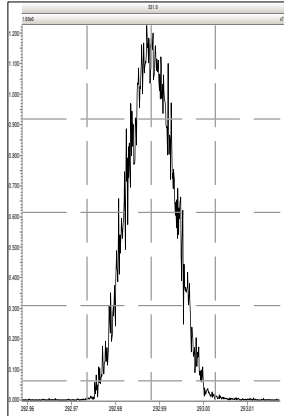
OCDF



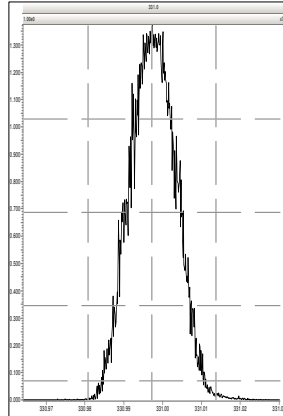
FUNCTION5 DCDPE



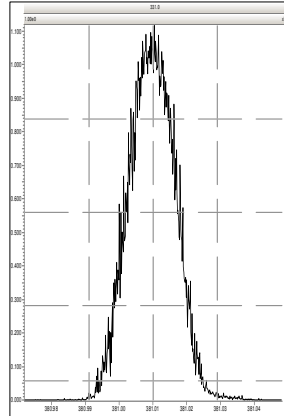
M 292.9824 R 12691



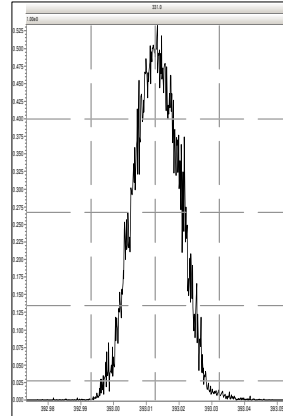
M 330.9792 R 12853



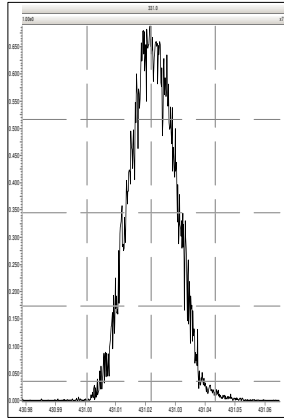
M 380.9760 R 13056



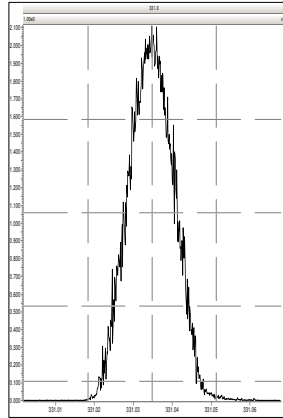
M 392.9760 R 13080



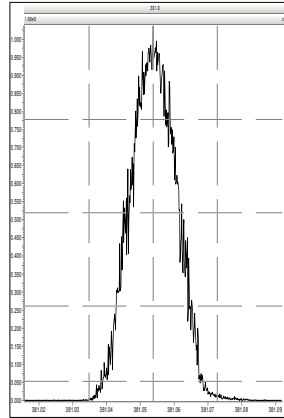
M 430.9728 R 13446



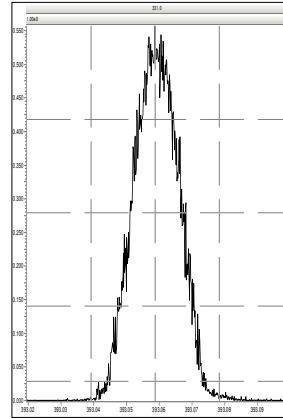
M 330.9792 R 13387



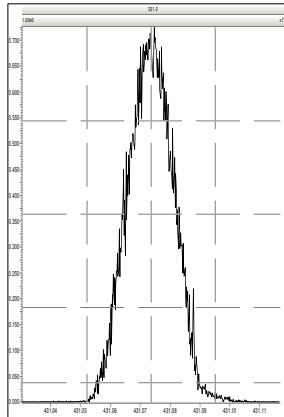
M 380.9760 R 13333



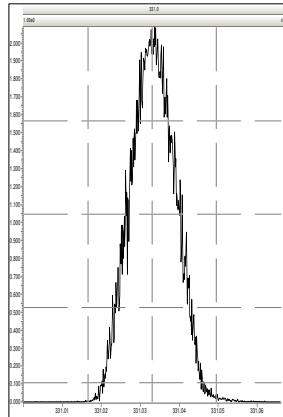
M 392.9760 R 13561



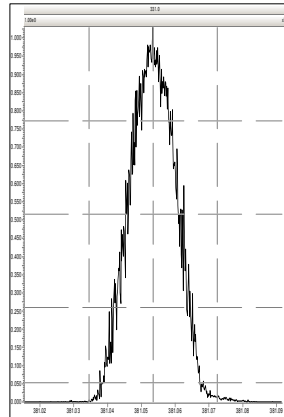
M 430.9728 R 12759



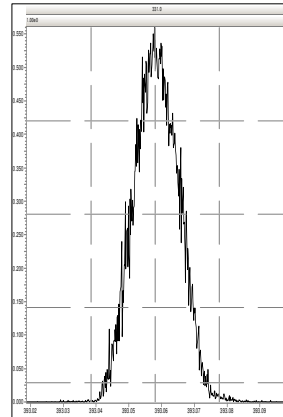
M 330.9792 R 13058



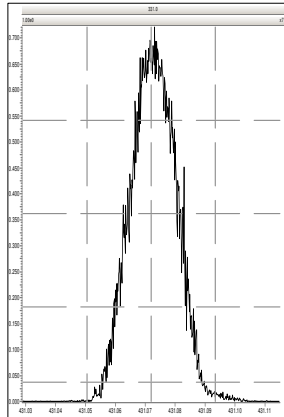
M 380.9760 R 13406



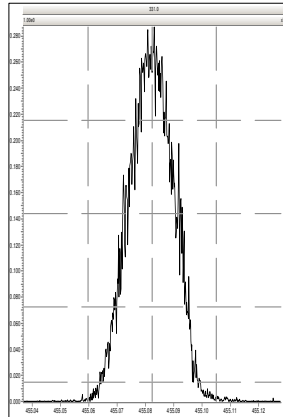
M 392.9760 R 13412



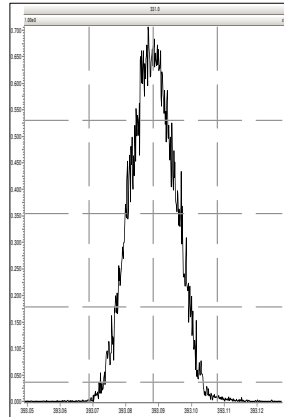
M 430.9728 R 13266



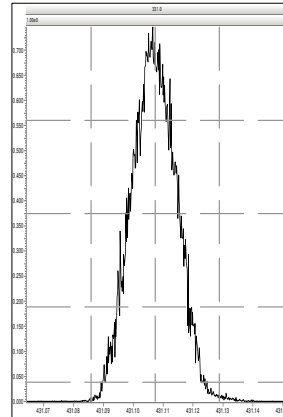
M 454.9728 R 13374



M 392.9760 R 13545

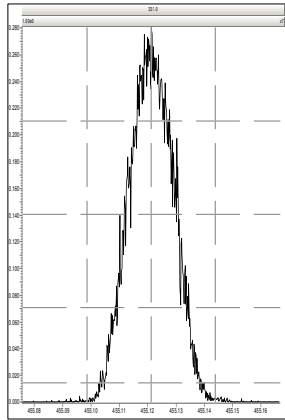


M 430.9728 R 12891

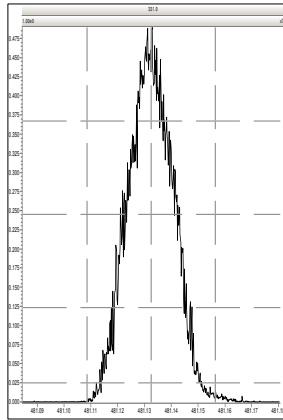


Printed: Friday, October 05, 2018 10:15:46 Pacific Daylight Time

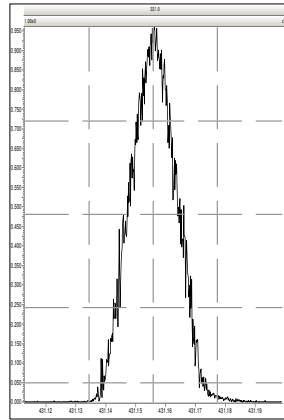
M 454.9728 R 13624



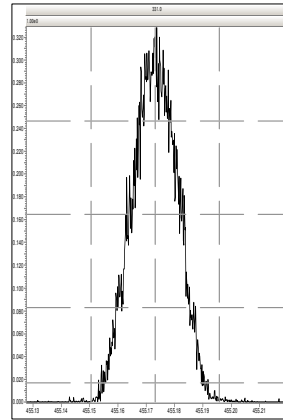
M 480.9696 R 13236



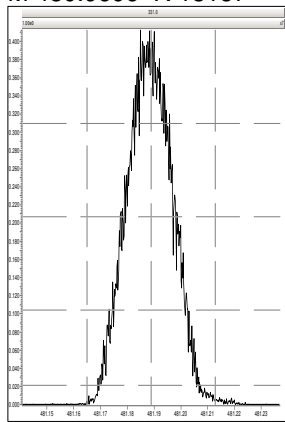
M 430.9728 R 13266



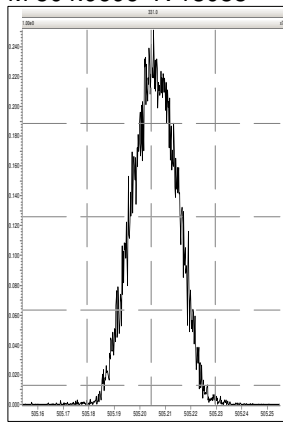
M 454.9728 R 13561



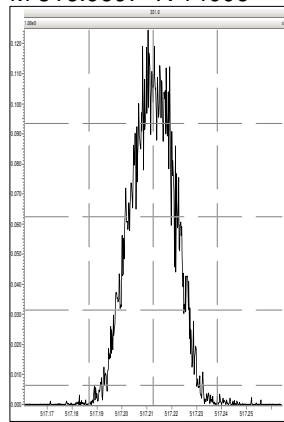
M 480.9696 R 13157



M 504.9696 R 13088



M 516.9697 R 14006

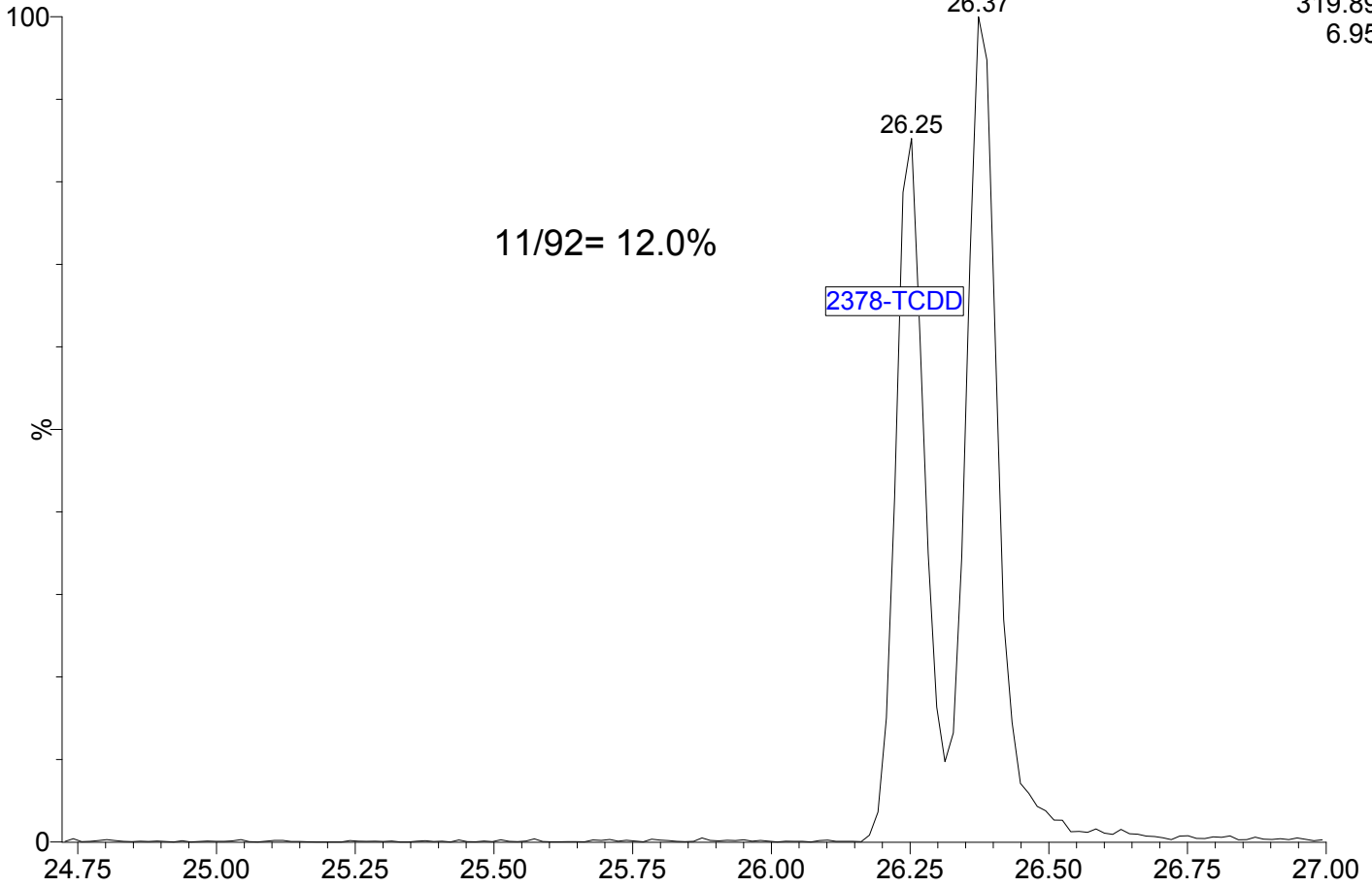


18100503

1: Voltage SIR 15 Channels EI+

319.8965

6.95e5

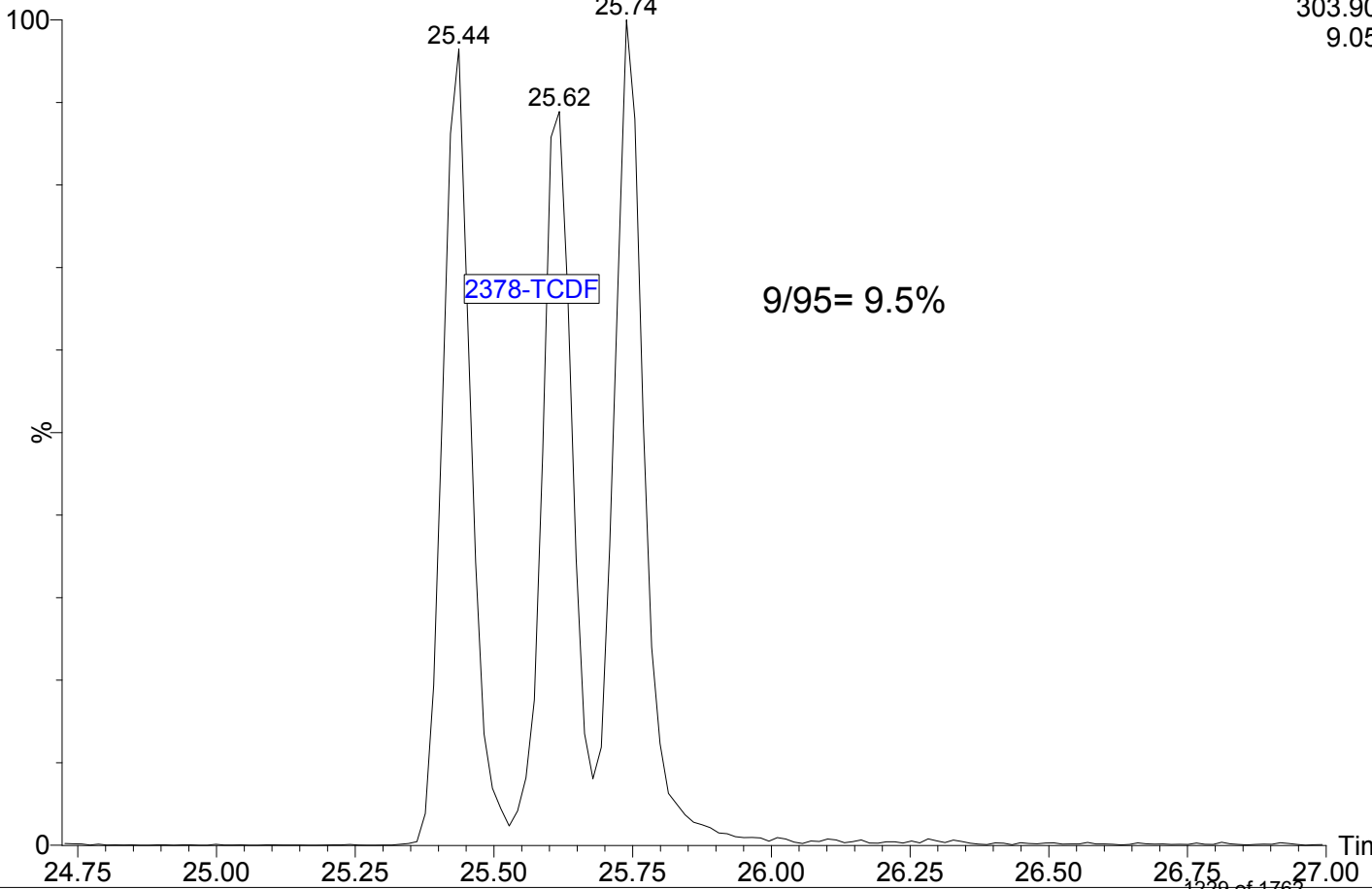


18100503

1: Voltage SIR 15 Channels EI+

303.9016

9.05e5





CONTINUING CALIBRATION CHECK EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Instrument ID: AUTOSPEC01

Calibration: BH00060

Lab File ID: 18100513

Calibration Date: 08/20/18 14:31

Sequence: SGJ0093

Injection Date: 10/05/18

Lab Sample ID: SGJ0093-CCV1

Injection Time: 19:20

Sequence Name: CS3V2

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.3	0.8337180	0.8600821		3.2	16
2,3,7,8-TCDD	A	10.000	10.4	0.9819180	1.0219990		4.1	22
1,2,3,7,8-PeCDF	A	50.000	53.2	0.8522416	0.9071361		6.4	18
2,3,4,7,8-PeCDF	A	50.000	54.1	0.9441194	1.0208980		8.1	18
1,2,3,7,8-PeCDD	A	50.000	54.6	1.0287800	1.1237040		9.2	22
1,2,3,4,7,8-HxCDF	A	50.000	53.6	0.9632160	1.0326920		7.2	10
1,2,3,6,7,8-HxCDF	A	50.000	53.2	0.9172847	0.9752546		6.3	12
2,3,4,6,7,8-HxCDF	A	50.000	53.0	0.9906397	1.0507920		6.1	12
1,2,3,7,8,9-HxCDF	A	50.000	52.9	0.9375054	0.9926295		5.9	10
1,2,3,4,7,8-HxCDD	A	50.000	51.9	0.9208855	0.9556207		3.8	22
1,2,3,6,7,8-HxCDD	A	50.000	52.7	0.9039972	0.9536696		5.5	22
1,2,3,7,8,9-HxCDD	A	50.000	52.9	0.9178071	0.9702160		5.7	18
1,2,3,4,6,7,8-HpCDF	A	50.000	51.5	1.1193550	1.1537970		3.1	10
1,2,3,4,7,8,9-HpCDF	A	50.000	51.0	1.1620560	1.1858650		2.0	14
1,2,3,4,6,7,8-HpCDD	A	50.000	54.6	1.0464960	1.1434480		9.3	14
OCDF	A	100.00	109	1.1449950	1.2457480		8.8	37
OCDD	A	100.00	107	0.9837584	1.0484350		6.6	21
13C12-2,3,7,8-TCDF	A	100.00	106	1.8466610	3.9170792		6.1	29
13C12-2,3,7,8-TCDD	A	100.00	98.2	1.1711480	2.2990796		-1.8	18
13C12-1,2,3,7,8-PeCDF	A	100.00	110	1.5576870	3.4305543		10.1	24
13C12-2,3,4,7,8-PeCDF	A	100.00	111	1.5436530	3.4200010		10.8	23
13C12-1,2,3,7,8-PeCDD	A	100.00	102	0.8859776	1.7993634		1.5	38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	100	1.1524190	2.3131976		0.4	24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	101	1.2251980	2.4797897		1.2	30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	102	1.1036650	2.2526075		2.1	27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	101	1.0456580	2.1204741		1.4	26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	98.8	1.0268910	2.0288758		-1.2	15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	103	1.0551470	2.1633724		2.5	15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	117	1.0044640	2.3413748		16.5	22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	121	0.7987185	1.9250441		20.5	23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	110	0.7490178	1.6470190		9.9	18
13C12-OCDD	A	200.00	229	0.7247910	1.6623765		14.7	52
37C14-2,3,7,8-TCDD	A	10.000	10.1	1.1205810	2.2547546		0.6	

* Values outside of QC limits

* Values outside of QC limits

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

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:20:18 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb **25 Sep 2018 11:22:36**
Calibration: T:\Autospec\Curves\180820ICH.cdb **21 Aug 2018 11:13:54**

ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.603	1.001	8.888e4	1.185e5	0.834	0.750	0.770	758	797	1.42e6	1.90e6	1873.3	YES	NO	bb	bb	10.316
12378-PeCDF	29.759	1.001	6.019e5	3.560e5	0.852	1.691	1.550	2507	1949	9.58e6	5.64e6	3822.8	YES	NO	bb	bb	53.221
23478-PeCDF	31.105	1.001	6.742e5	4.006e5	0.944	1.683	1.550	2507	1949	1.08e7	6.38e6	4289.4	YES	NO	bb	bb	54.066
123478-HxCDF	34.790	1.001	4.367e5	3.498e5	0.963	1.248	1.240	1874	1312	6.80e6	5.46e6	3625.7	YES	NO	bd	bd	53.606
234678-HxCDF	35.858	1.001	4.339e5	3.454e5	0.991	1.256	1.240	1874	1312	7.33e6	5.80e6	3908.5	YES	NO	bb	bb	53.036
123678-HxCDF	34.934	1.001	4.421e5	3.541e5	0.917	1.248	1.240	1874	1312	6.77e6	5.37e6	3609.7	YES	NO	db	db	53.160
123789-HxCDF	36.815	1.000	3.860e5	3.070e5	0.938	1.257	1.240	1874	1312	7.25e6	5.75e6	3869.1	YES	NO	bb	bb	52.940
1234678-HpCDF	38.541	1.000	4.551e5	4.343e5	1.119	1.048	1.050	2111	2666	7.91e6	7.59e6	3747.8	YES	NO	bb	bb	51.538
1234789-HpCDF	40.756	1.000	3.811e5	3.705e5	1.162	1.028	1.050	2111	2666	5.83e6	5.65e6	2761.3	YES	NO	bb	bb	51.024
OCDF	44.943	1.006	6.617e5	7.018e5	1.145	0.943	0.890	2196	969	8.02e6	8.48e6	3651.2	YES	NO	bb	bb	108.799
2378-TCDD	26.238	1.001	6.581e4	7.884e4	0.982	0.835	0.770	1015	814	1.05e6	1.26e6	1033.1	YES	NO	bb	bb	10.408
12378-PeCDD	31.350	1.000	3.872e5	2.352e5	1.029	1.647	1.550	1576	1166	6.31e6	3.80e6	4005.1	YES	NO	bb	bb	54.613
123478-HxCDD	35.970	1.000	3.552e5	2.831e5	0.921	1.255	1.240	1644	1688	6.05e6	4.88e6	3680.0	YES	NO	bd	bd	51.886
123678-HxCDD	36.081	1.000	3.743e5	3.049e5	0.904	1.227	1.240	1644	1688	6.46e6	5.29e6	3928.6	YES	NO	db	db	52.747
123789-HxCDD	36.448	1.010	3.685e5	3.010e5	0.918	1.224	1.240	1644	1688	6.89e6	5.56e6	4188.1	YES	NO	bb	bb	52.854
1234678-HpCDD	40.021	1.000	3.199e5	3.001e5	1.046	1.066	1.050	1521	1547	5.08e6	4.80e6	3343.2	YES	NO	bb	bb	54.632
OCDD	44.705	1.000	5.349e5	6.127e5	0.984	0.873	0.890	1885	2614	6.70e6	7.62e6	3554.0	YES	NO	bb	bb	106.574
13C-2378-TCDF	25.588	1.007	1.072e6	1.340e6	1.847	0.800	0.770	3642	1827	1.67e7	2.07e7	4581.0	YES	NO	bb	bb	106.058
13C-12378-PeCDF	29.737	1.170	1.295e6	8.172e5	1.558	1.584	1.550	1924	1359	2.04e7	1.29e7	10615.2	YES	NO	bb	bb	110.117
13C-23478-PeCDF	31.083	1.223	1.291e6	8.142e5	1.544	1.586	1.550	1924	1359	2.06e7	1.30e7	10688.0	YES	NO	bb	bb	110.776
13C-123478-HxCDF	34.768	0.954	5.081e5	1.015e6	1.152	0.501	0.510	1278	2030	7.81e6	1.54e7	6114.1	YES	NO	bd	bd	100.363
13C-123678-HxCDF	34.912	0.958	5.486e5	1.084e6	1.225	0.506	0.510	1278	2030	8.21e6	1.62e7	6427.4	YES	NO	db	db	101.200
13C-234678-HxCDF	35.836	0.984	4.932e5	9.900e5	1.104	0.498	0.510	1278	2030	8.25e6	1.64e7	6459.0	YES	NO	bb	bb	102.051
13C-123789-HxCDF	36.804	1.010	4.690e5	9.272e5	1.046	0.506	0.510	1278	2030	8.65e6	1.68e7	6773.2	YES	NO	bb	bb	101.394
13C-1234678-HpCDF	38.529	1.057	4.717e5	1.070e6	1.004	0.441	0.440	1832	2686	8.16e6	1.85e7	4453.0	YES	NO	bb	bb	116.548
13C-1234789-HpCDF	40.744	1.118	3.947e5	8.728e5	0.799	0.452	0.440	1832	2686	5.91e6	1.32e7	3227.0	YES	NO	bd	bb	120.508
13C-1234-TCDD	25.407	0.000	5.374e5	6.939e5	1.000	0.775	0.770	1430	905	8.48e6	1.08e7	5926.7	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.223	1.032	6.169e5	7.985e5	1.171	0.773	0.770	1430	905	9.46e6	1.22e7	6613.0	YES	NO	bb	bb	98.155
13C-12378-PeCDD	31.339	1.234	6.889e5	4.189e5	0.886	1.645	1.550	1193	670	1.08e7	6.51e6	9044.6	YES	NO	bb	bb	101.547
13C-123478-HxCDD	35.958	0.987	7.502e5	5.857e5	1.027	1.281	1.240	1435	1767	1.28e7	1.00e7	8900.1	YES	NO	bd	bd	98.787
13C-123678-HxCDD	36.070	0.990	8.009e5	6.236e5	1.055	1.284	1.240	1435	1767	1.39e7	1.09e7	9683.4	YES	NO	db	db	102.515
13C-1234678-HpCDD	40.010	1.098	5.665e5	5.180e5	0.749	1.094	1.050	1557	1328	8.98e6	8.19e6	5768.6	YES	NO	bb	bb	109.945
13C-OCDD	44.687	1.226	1.047e6	1.143e6	0.725	0.916	0.890	855	1663	1.25e7	1.37e7	14683.5	YES	NO	bb	bb	229.359
13C-123789-HxCDD	36.437	0.000	7.366e5	5.802e5	1.000	1.270	1.240	1435	1767	1.34e7	1.06e7	9371.0	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.238	1.033	1.388e5		1.121			466		2.21e6		4755.2	YES		bb		10.061

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

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:20:18 Pacific Daylight Time

ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1368-TCDF	22.083	0.863	1.060e5	1.394e5	1.020	0.761	0.770	758	797	1.78e6	2.33e6	2342.6	YES	NO	bb	bb	9.977
1289-TCDF	27.099	1.059	8.663e4	1.170e5	0.818	0.740	0.770	758	797	1.35e6	1.82e6	1774.3	YES	NO	db	db	10.320
13468-PECDF	26.948	0.906	6.566e5	4.303e5	1.163	1.526	1.550	381	526	1.04e7	6.77e6	27297.2	YES	NO	bb	bb	44.248
12389-PECDF	32.141	1.081	6.387e5	3.792e5	0.912	1.685	1.550	2507	1949	9.84e6	5.85e6	3925.6	YES	NO	bb	bb	52.824
123468-HXCDF	33.054	0.951	4.391e5	3.530e5	1.051	1.244	1.240	1874	1312	7.00e6	5.64e6	3736.6	YES	NO	bb	bb	49.465
1368-TCDD	23.367	0.891	6.661e4	8.195e4	1.026	0.813	0.770	1015	814	1.07e6	1.31e6	1058.9	YES	NO	bb	bb	10.227
1289-TCDD	26.842	1.024	6.260e4	7.862e4	0.938	0.796	0.770	1015	814	9.50e5	1.21e6	936.3	YES	NO	bb	bb	10.638
12479-PECDD	28.624	0.913	6.420e5	4.004e5	1.807	1.604	1.550	1576	1166	6.30e6	3.99e6	3995.9	YES	NO	bb	bb	52.070
12389-PECDD	31.751	1.013	4.813e5	3.012e5	1.326	1.598	1.550	1576	1166	7.57e6	4.69e6	4802.7	YES	NO	bb	bb	53.266
124679-HXCDD	33.855	0.942	3.828e5	3.110e5	1.031	1.231	1.240	1644	1688	5.95e6	4.81e6	3617.4	YES	NO	bb	bb	50.348
1234679-HPCDD	38.997	0.975	3.592e5	3.364e5	1.228	1.068	1.050	1521	1547	6.17e6	5.77e6	4056.4	YES	NO	bb	bb	52.230
Total-tetrafurans			2.895e5		0.891			758		4.67e6							31.475
Total-penta1			6.566e5					381		1.04e7							44.248
Total-pentafurans			2.022e6		0.903			2507		3.19e7							168.866
Total-hexafurans			2.138e6		0.972			1874		3.52e7							262.235
Total-heptafurans			8.372e5		1.141			2111		1.38e7							102.684
Total-Furans			6.605e6		0.989			758		1.04e8							718.307
Total-tetraioxins			3.365e5		0.982			1015		4.81e6							54.131
Total-pentadioxins			1.513e6		1.387			1576		2.02e7							160.159
Total-hexadioxins			1.483e6		0.944			1644		2.54e7							208.128
Total-heptadioxins			6.790e5		1.137			1521		1.13e7							106.863
Total-Dioxins			4.546e6		1.088			1015		6.84e7							635.854
Total-TEQ			1.115e7					1015		1.72e8							1354.161
FUNCTION1 PFK			6.478e5					390394		1.35e7							0.000
FUNCTION2 PFK			3.489e5					215879		9.06e6							
FUNCTION3 PFK			0.000e0					287966		0.00e0							
FUNCTION4 PFK			3.513e5					186365		9.45e6							
FUNCTION5 PFK			2.870e5					164079		9.84e6							
FUNCTION1 HXCD...			0.000e0					311		0.00e0							
FUNCTION1 HPCD...			0.000e0					400		0.00e0							
FUNCTION2 HPCD...			3.646e2					460		7.03e3							0.000
FUNCTION3 OCDPE			0.000e0					182		0.00e0							
FUNCTION4 NCDPE			0.000e0					317		0.00e0							
FUNCTION5 DCDPE			0.000e0					140		0.00e0							

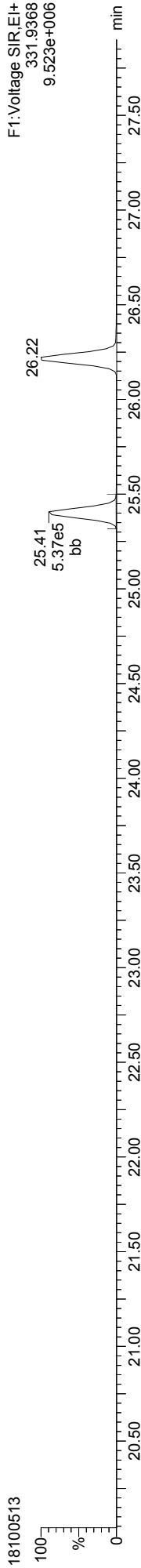
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:18 Pacific Daylight Time

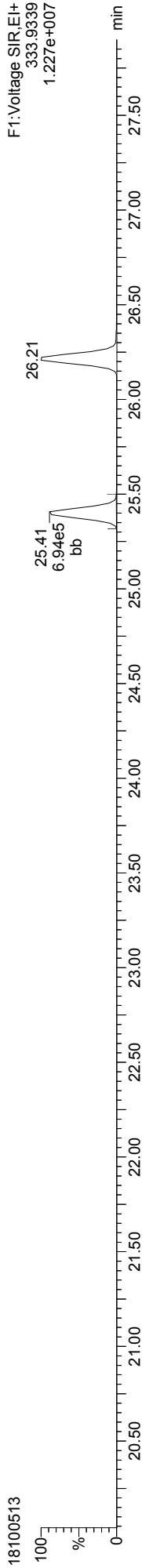
Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: CS3V2, **Name:** 18100513, **Date:** 05-Oct-2018, **Time:** 19:20:24, **Conditions:** AUTOSPEC01, **User:** PK

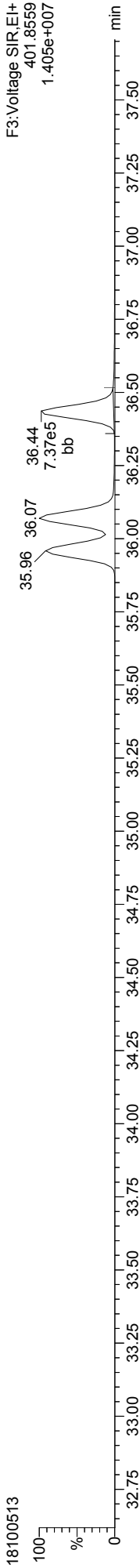
13C-1234-TCDD



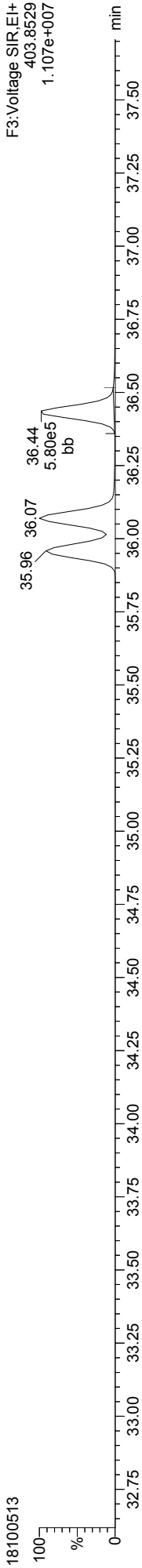
13C-123789-HxCDD



13C-123789-HxCDD



13C-123789-HxCDD

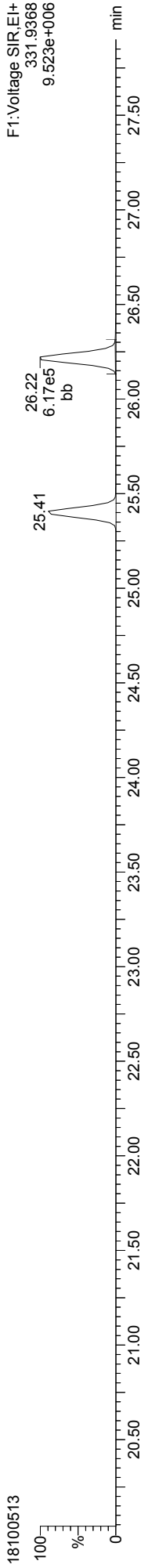


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

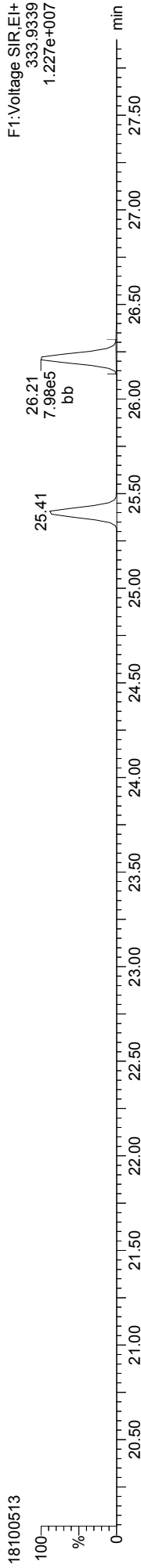
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:18 Pacific Daylight Time

ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

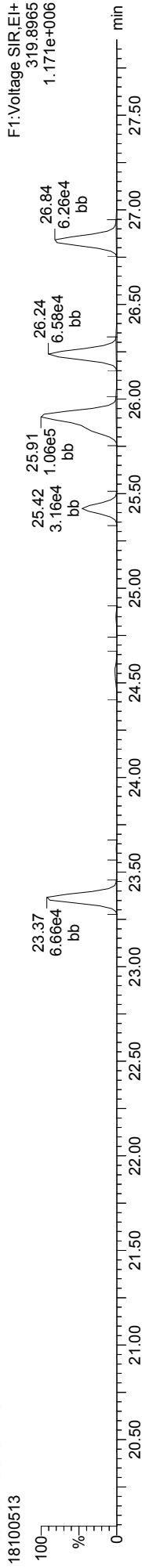
13C-2378-TCDD



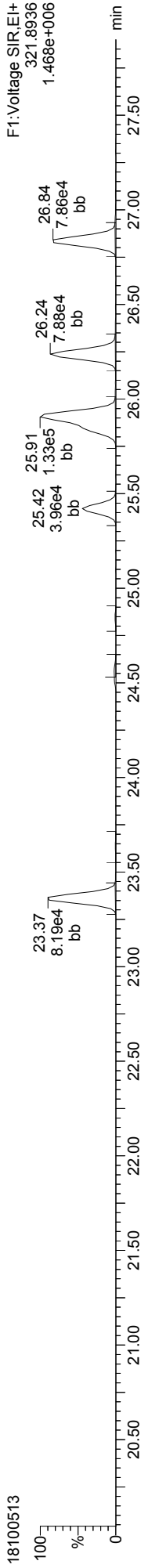
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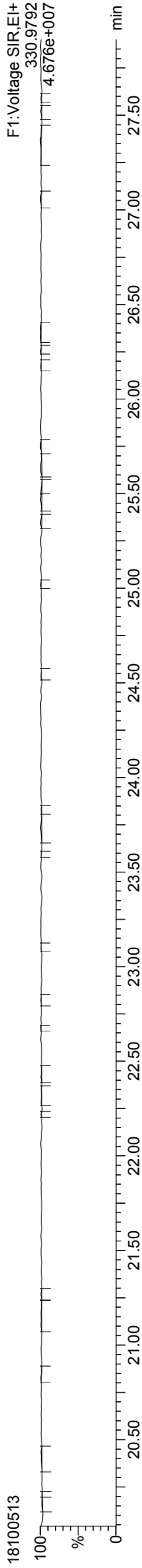
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK

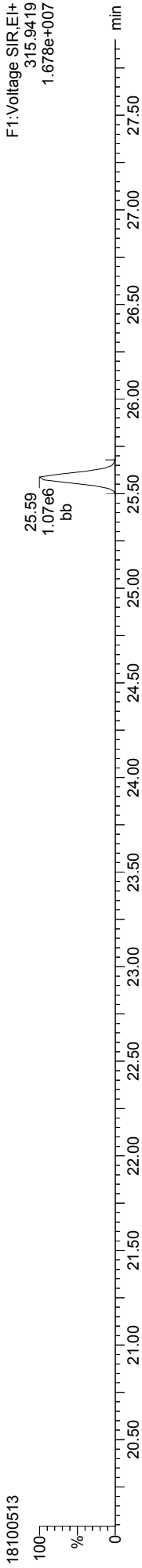


Quantify Sample Report

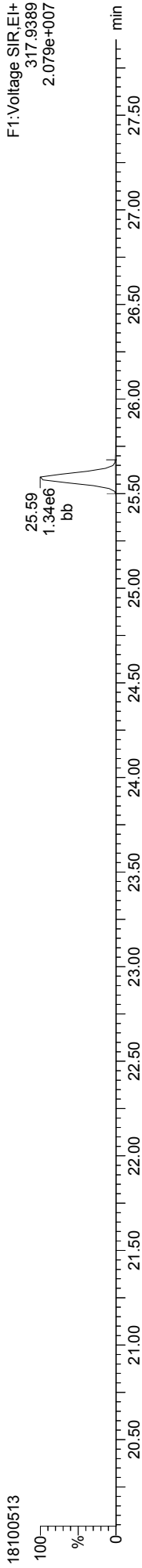
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:18 Pacific Daylight Time

ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

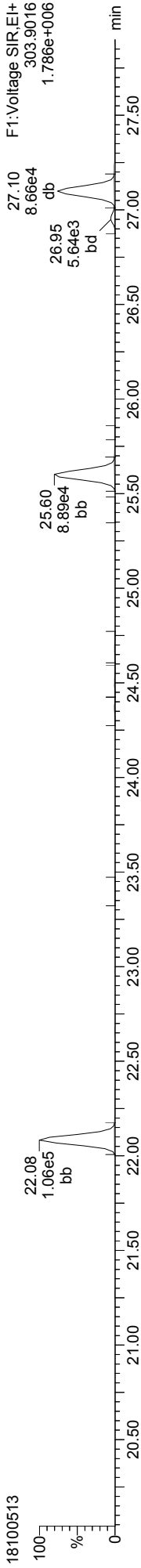
13C-2378-TCDF



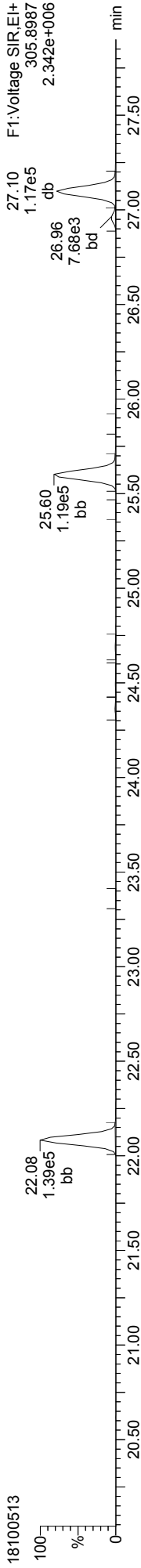
13C-2378-TCDF



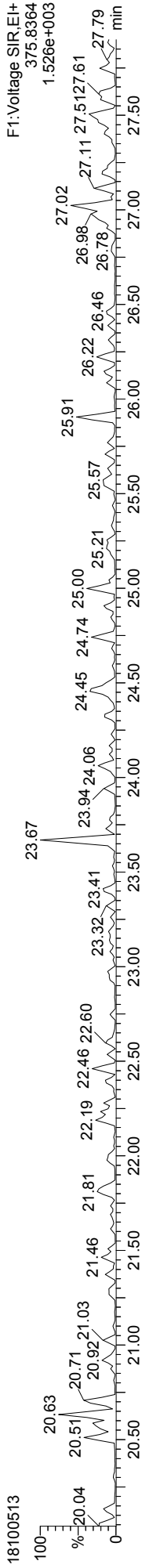
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

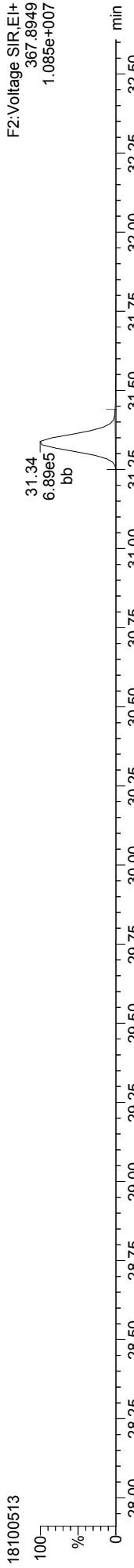


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

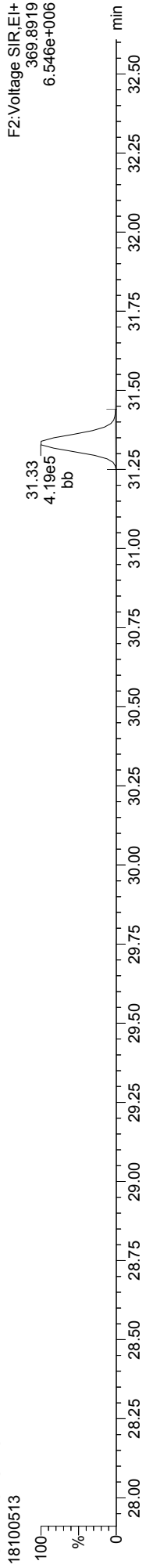
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Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:18 Pacific Daylight Time

ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

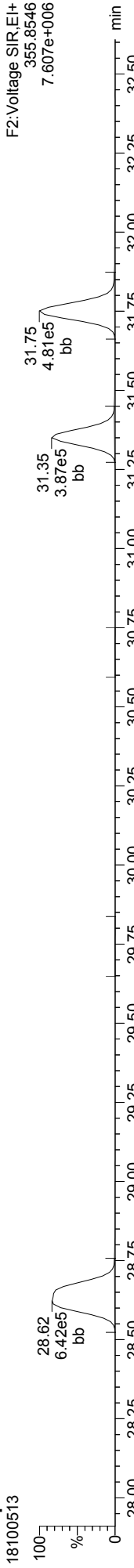
13C-12378-PeCDD



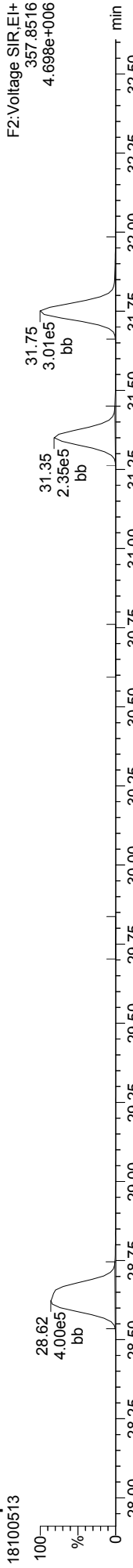
13C-12378-PeCDD



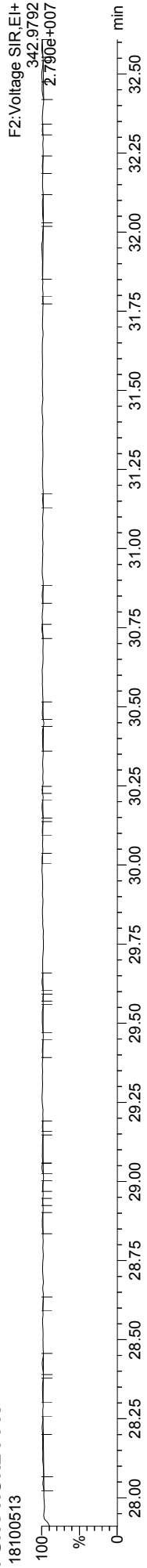
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

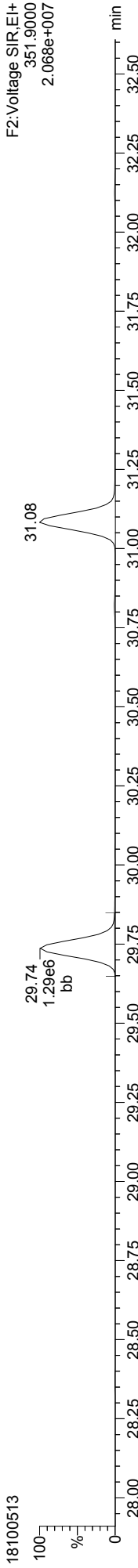


Quantify Sample Report

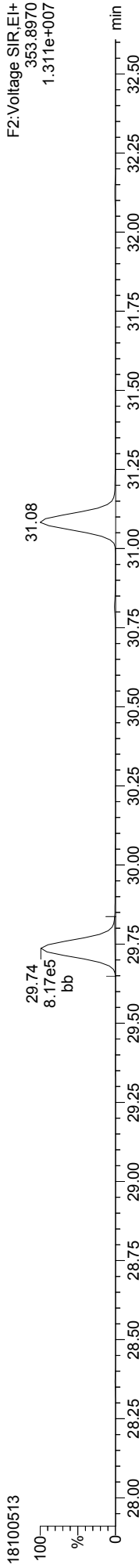
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:18 Pacific Daylight Time

ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

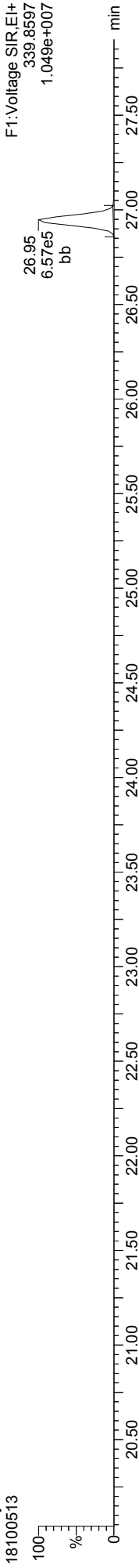
13C-12378-PeCDF



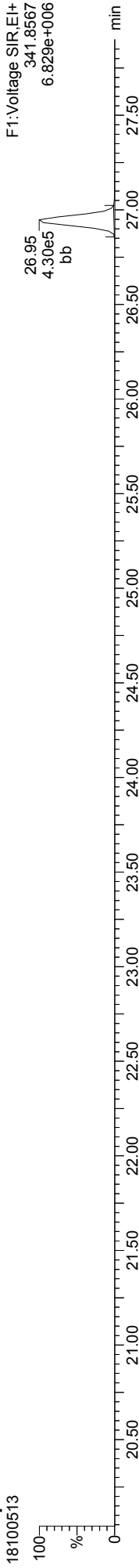
13C-12378-PeCDF



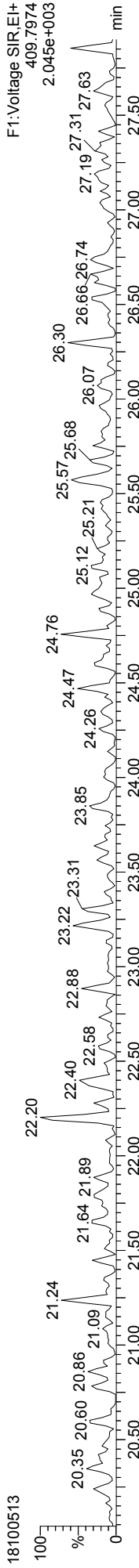
Total-penta1



Total-penta1



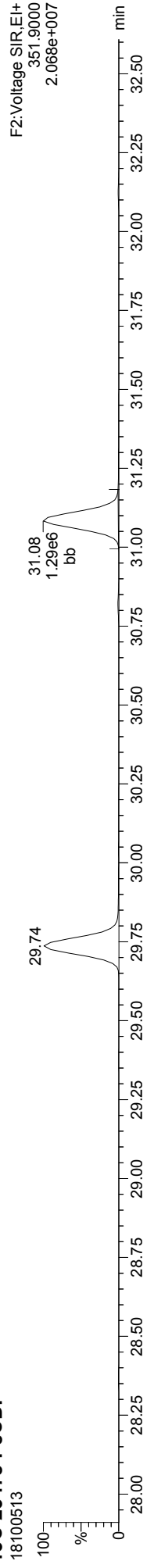
FUNCTION1 HPCDPE



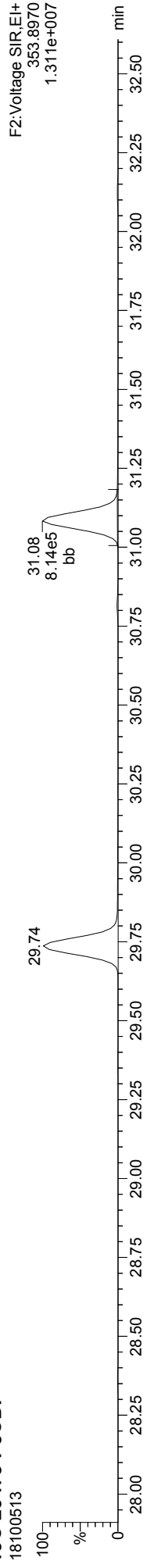
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:18 Pacific Daylight Time

ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

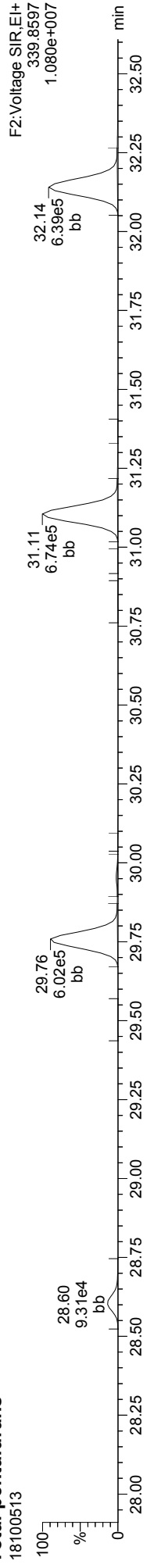
13C-23478-PeCDF



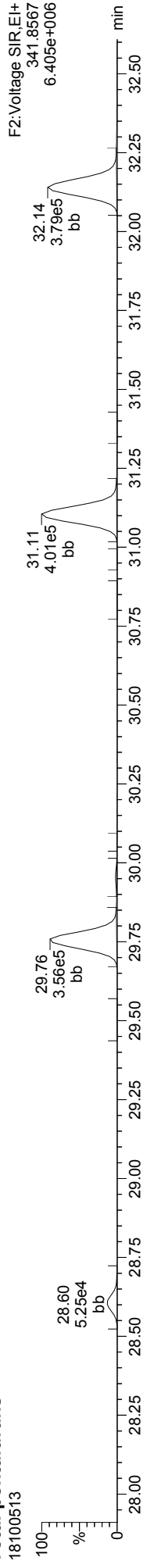
13C-23478-PeCDF



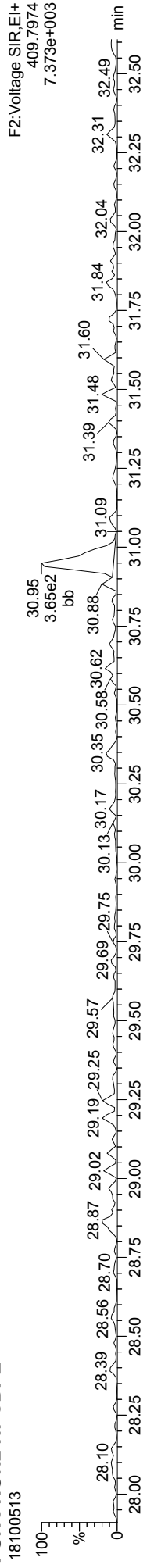
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

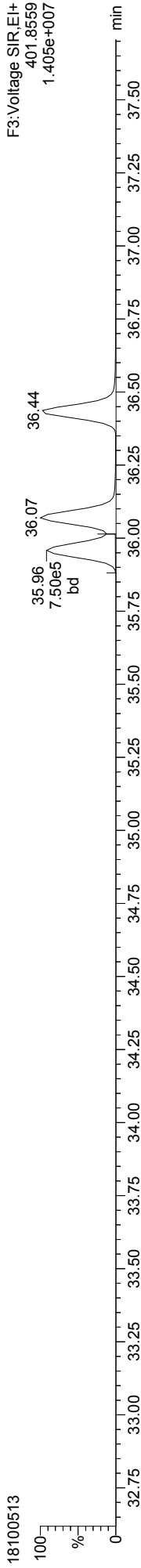


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

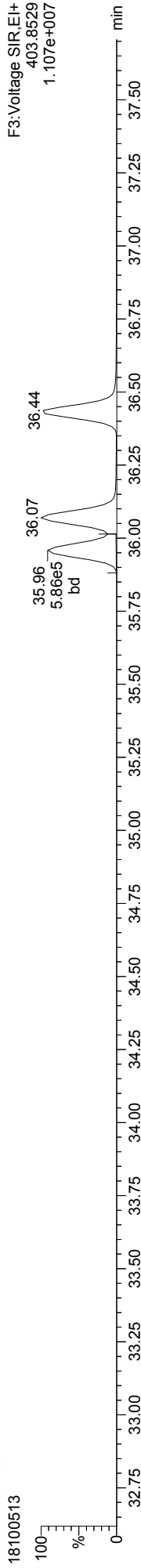
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Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

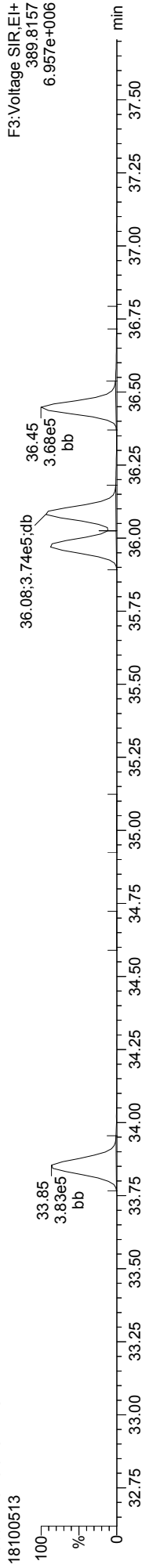
13C-123478-HxCDD



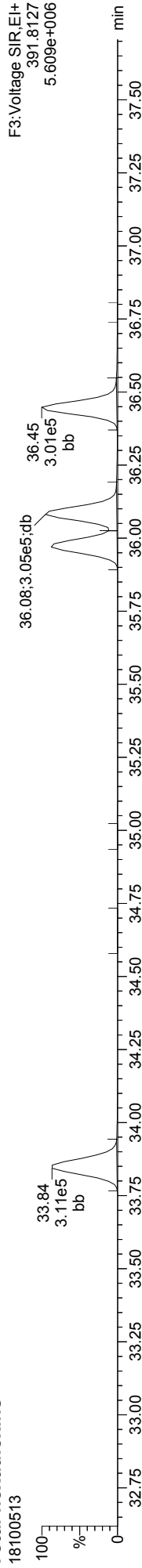
13C-123478-HxCDD



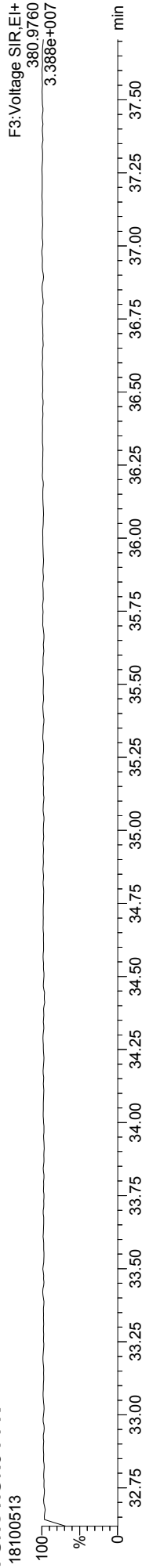
Total-hexadioxins



Total-hexadioxins



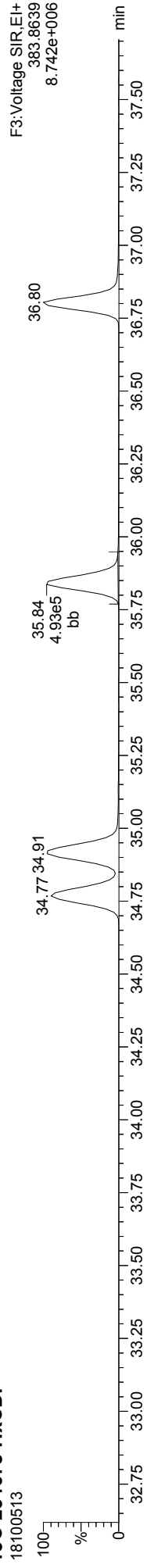
FUNCTION3 PFK



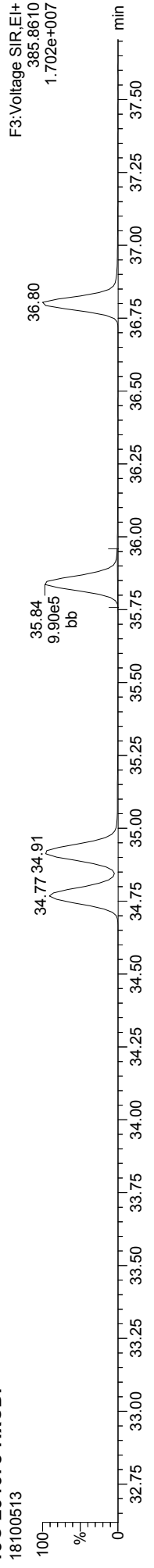
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

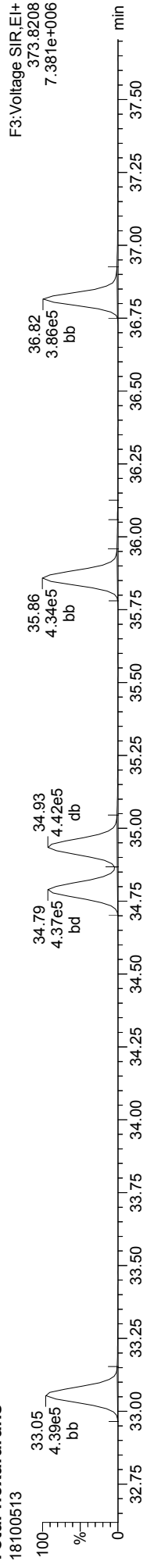
13C-234678-HxCDF



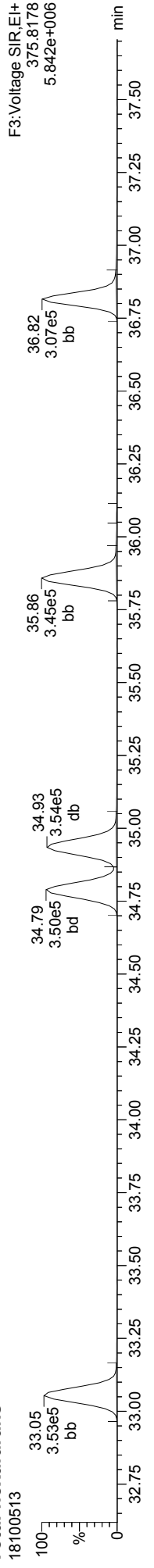
13C-234678-HxCDF



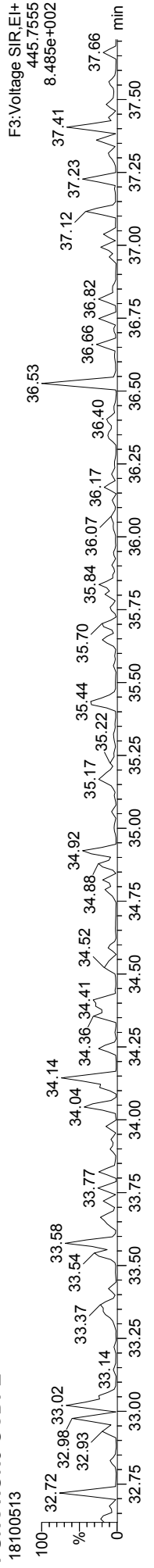
Total-hexafurans



Total-hexafurans



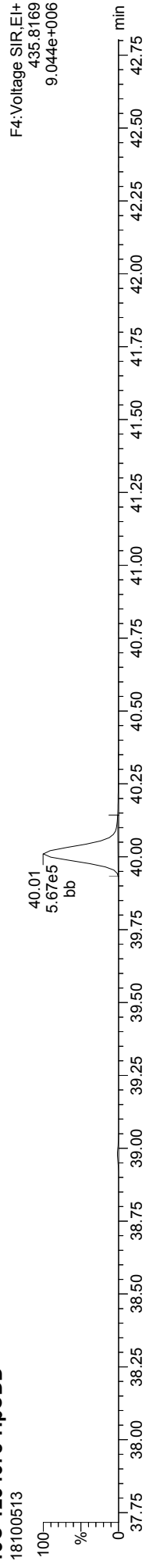
FUNCTION3 OCDPE



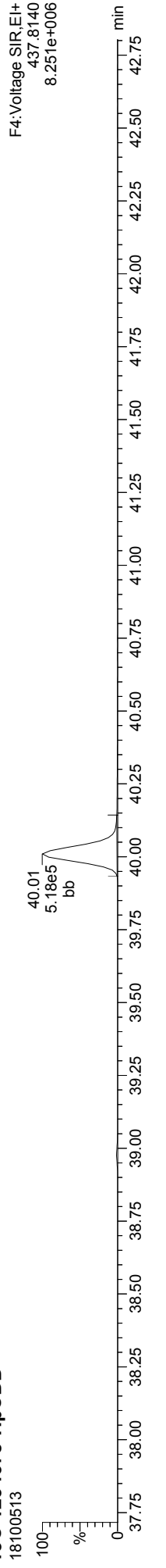
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

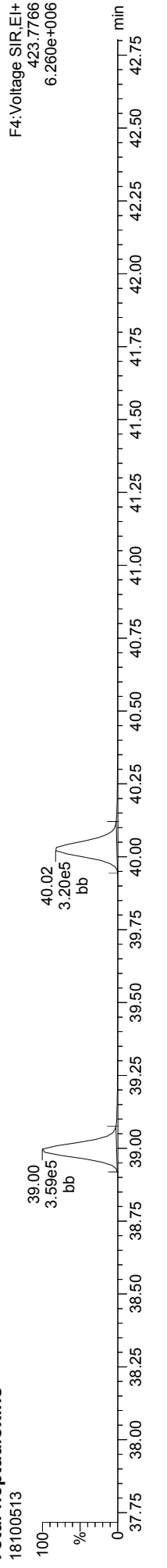
13C-1234678-HpCDD



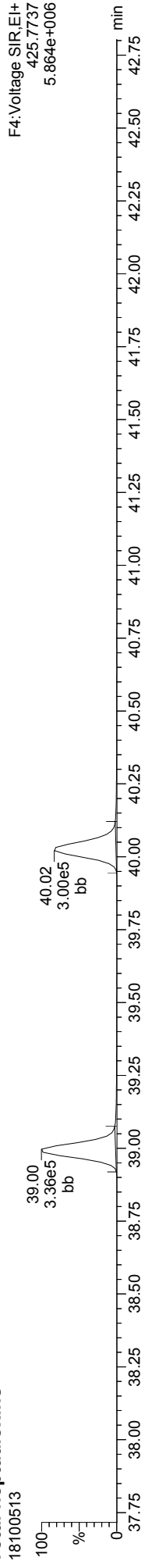
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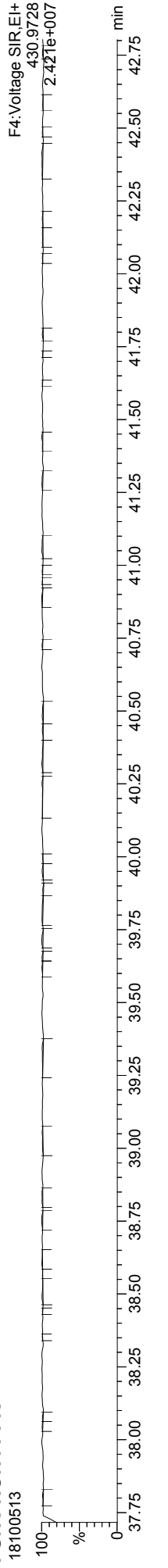
Total-heptadioxins



Total-heptadioxins



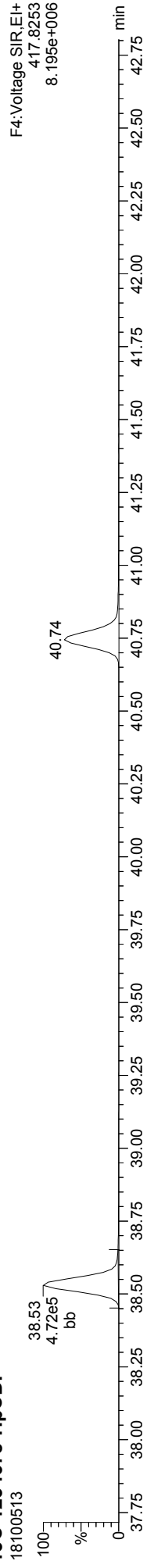
FUNCTION4 PFK



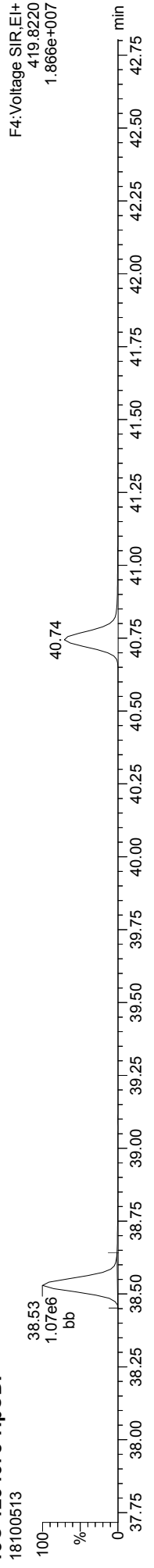
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Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

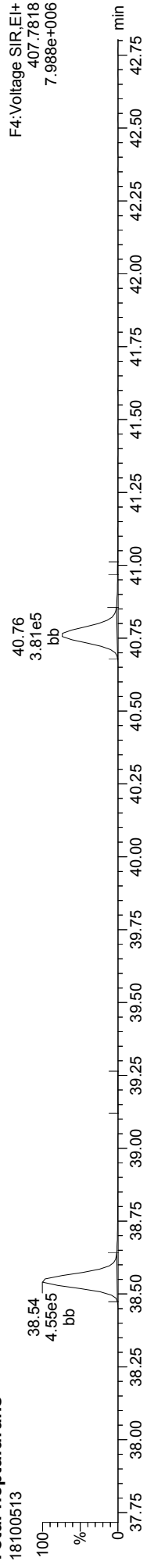
13C-1234678-HpCDF



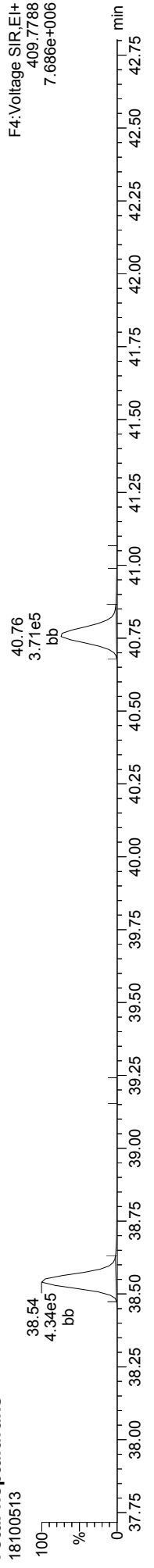
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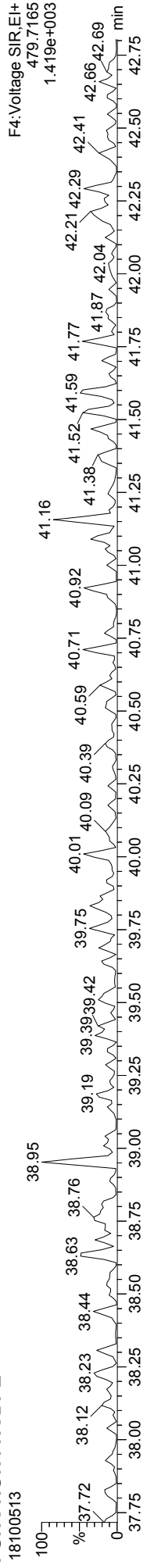
Total-heptafurans



Total-heptafurans



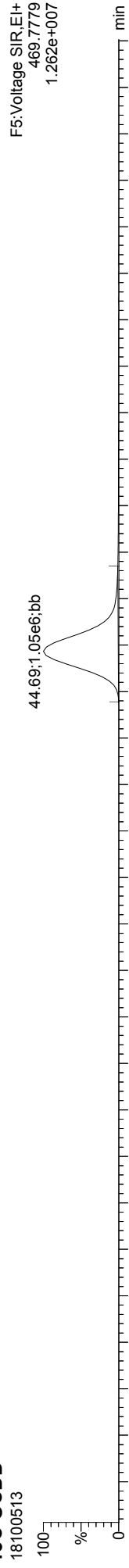
FUNCTION4 NCDPE



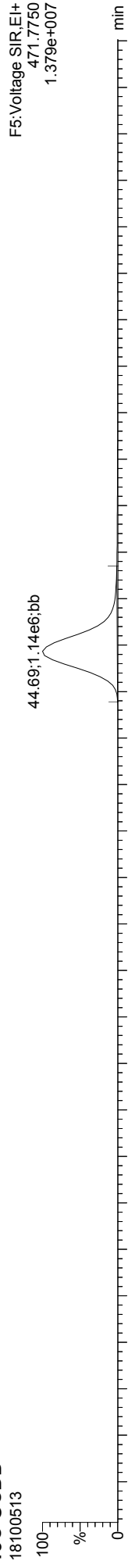
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

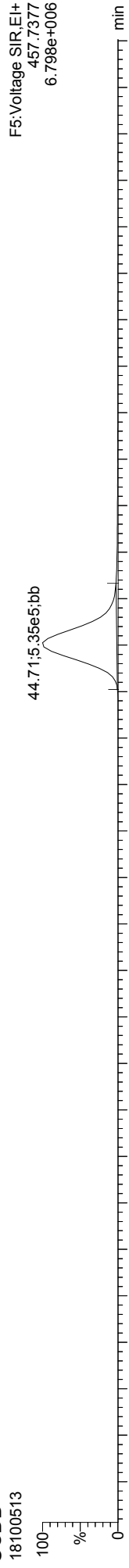
13C-OCDD



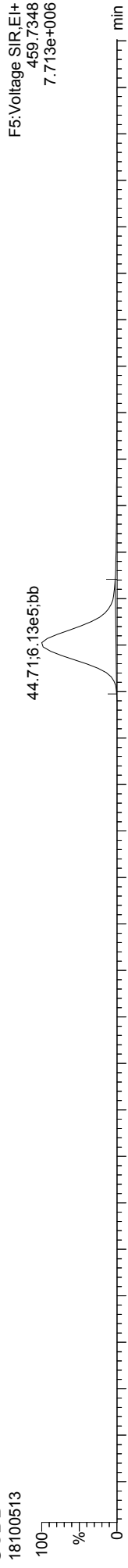
13C-OCDD



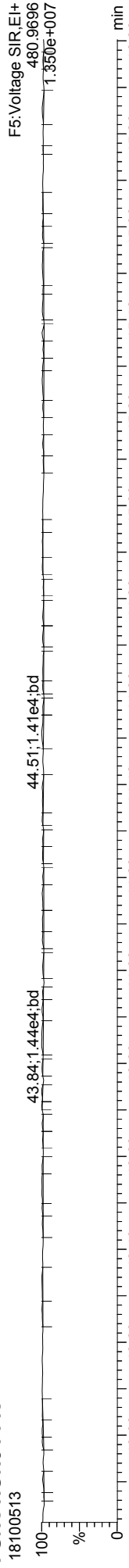
OCDD



OCDD



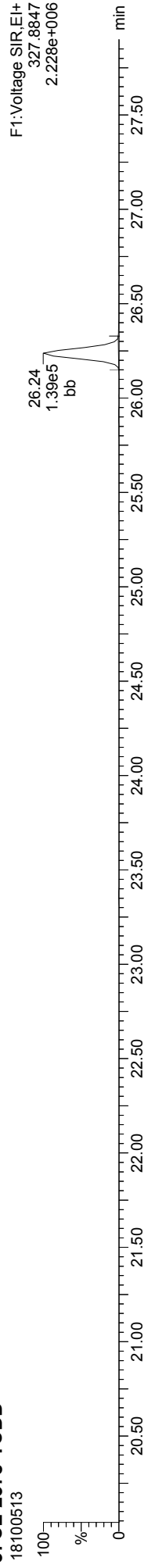
FUNCTION5 PFK



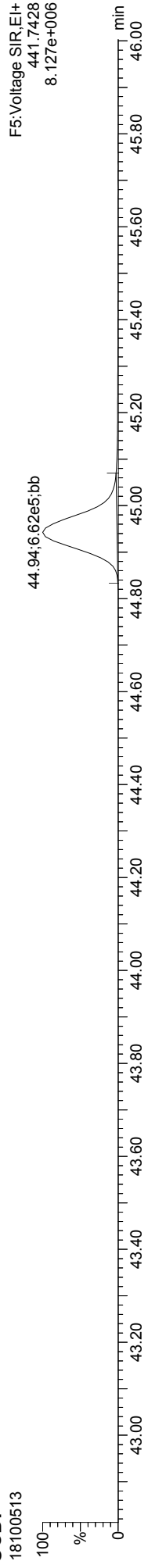
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ID: CS3V2, Name: 18100513, Date: 05-Oct-2018, Time: 19:20:24, Conditions: AUTOSPEC01, User: PK

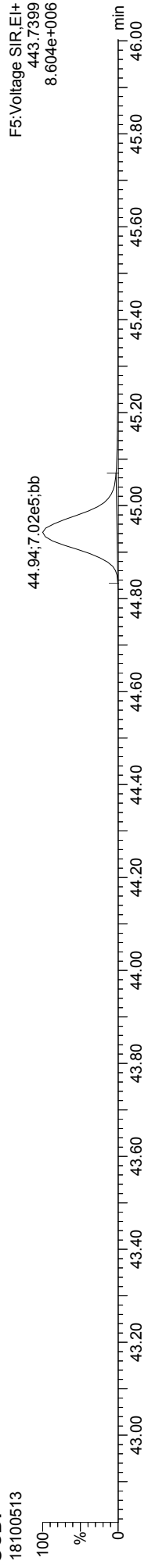
37CL-2378-TCDD



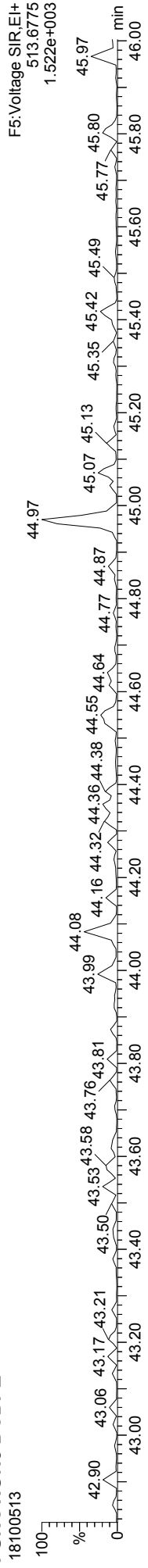
OCDF



OCDF

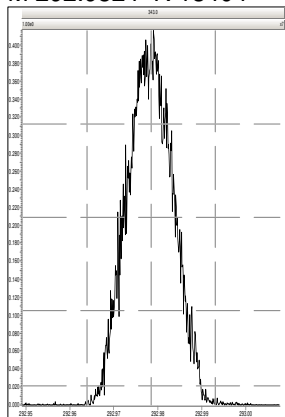


FUNCTION5 DCDPE

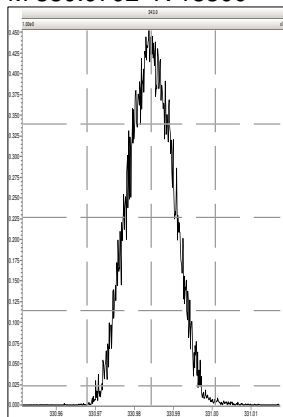


Printed: Friday, October 05, 2018 20:13:43 Pacific Daylight Time

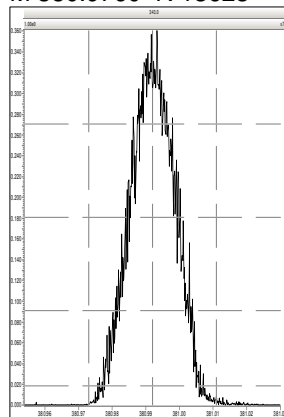
M 292.9824 R 13404



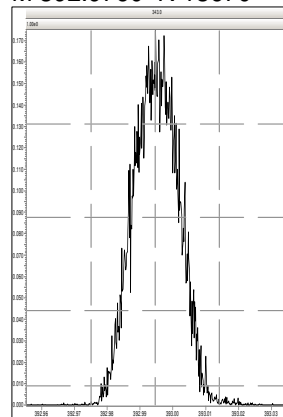
M 330.9792 R 13300



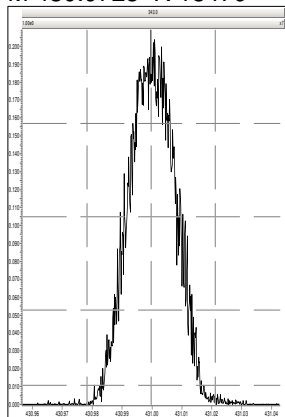
M 380.9760 R 13623



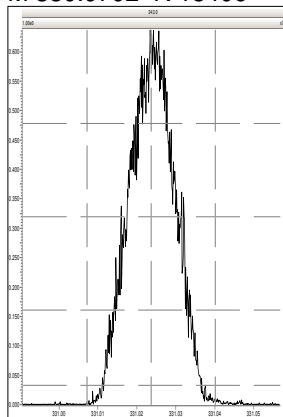
M 392.9760 R 13670



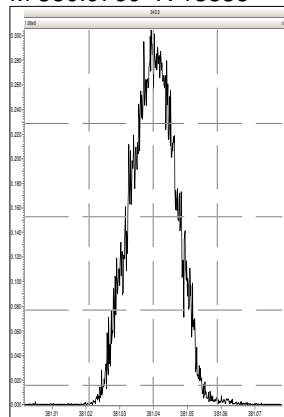
M 430.9728 R 13479



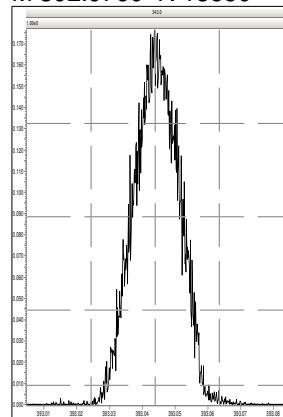
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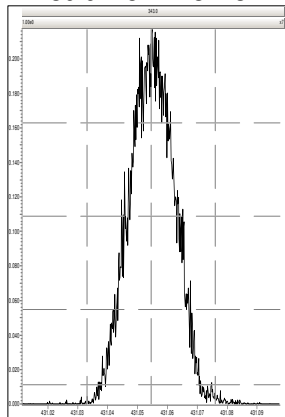
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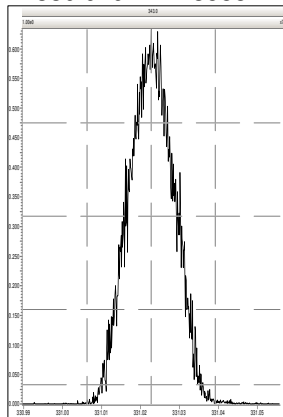
M 392.9760 R 13550



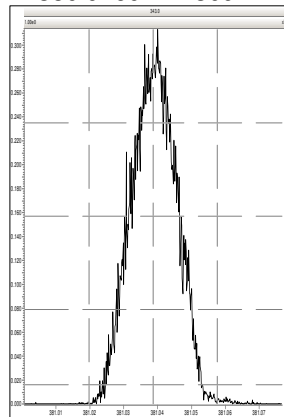
M 430.9728 R 13273



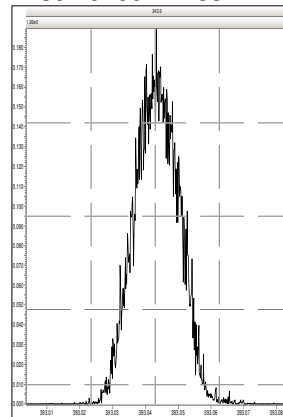
M 330.9792 R 13588



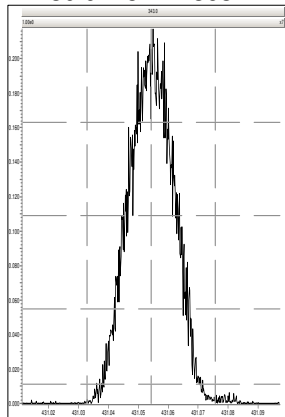
M 380.9760 R 13097



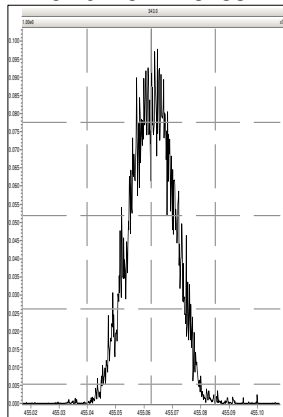
M 392.9760 R 13374



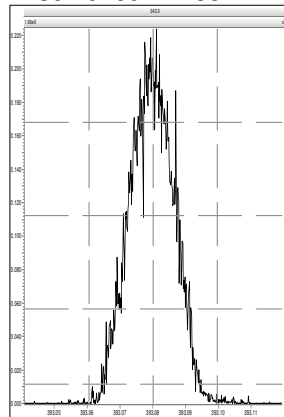
M 430.9728 R 13631



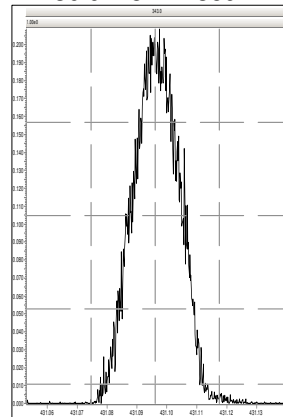
M 454.9728 R 13233



M 392.9760 R 13572

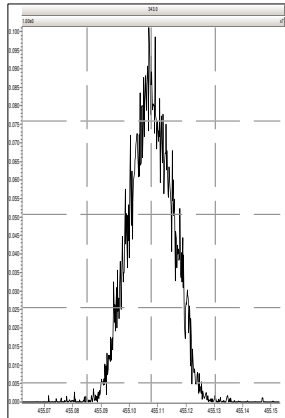


M 430.9728 R 13592

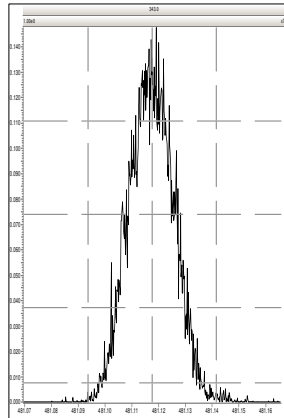


Printed: Friday, October 05, 2018 20:13:43 Pacific Daylight Time

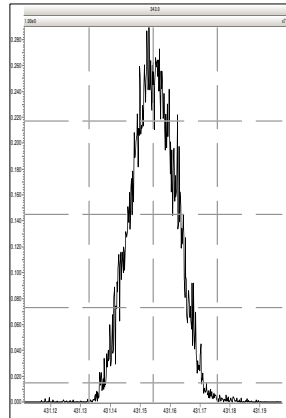
M 454.9728 R 13966



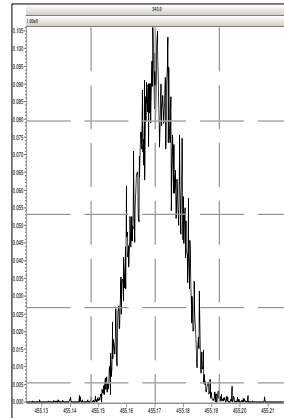
M 480.9696 R 13736



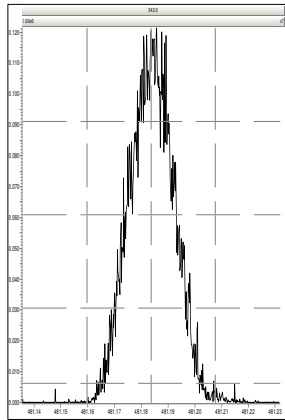
M 430.9728 R 13337



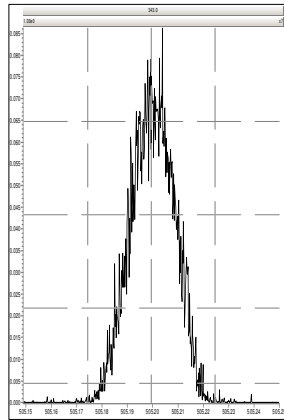
M 454.9728 R 13514



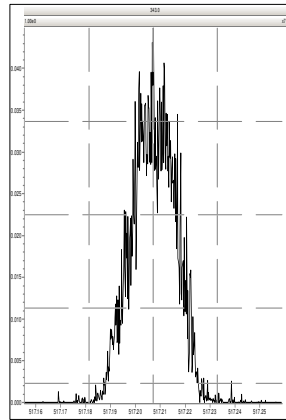
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M 504.9696 R 13852



M 516.9697 R 13590

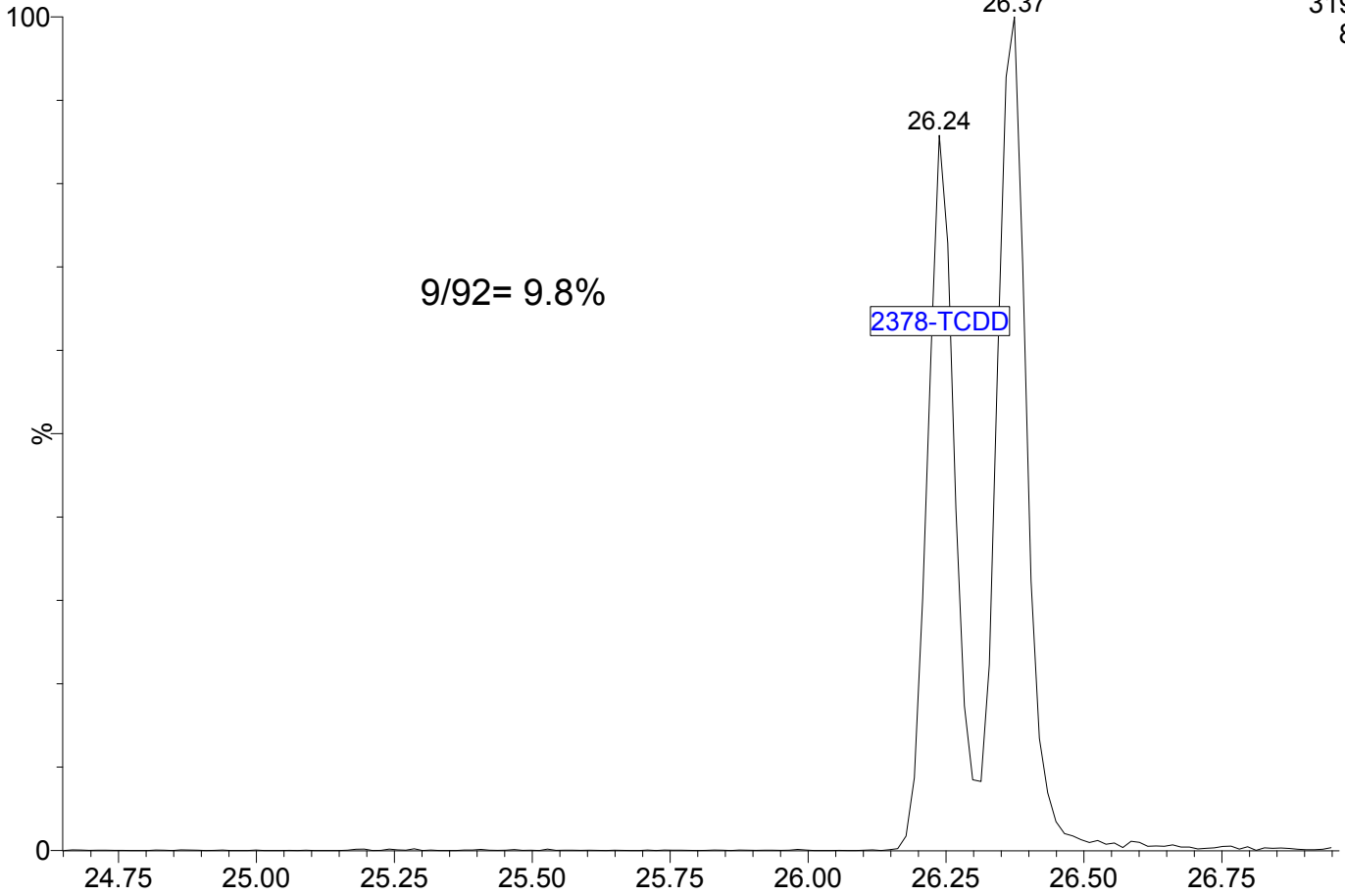


18100514

1: Voltage SIR 15 Channels EI+

319.8965

8.08e5

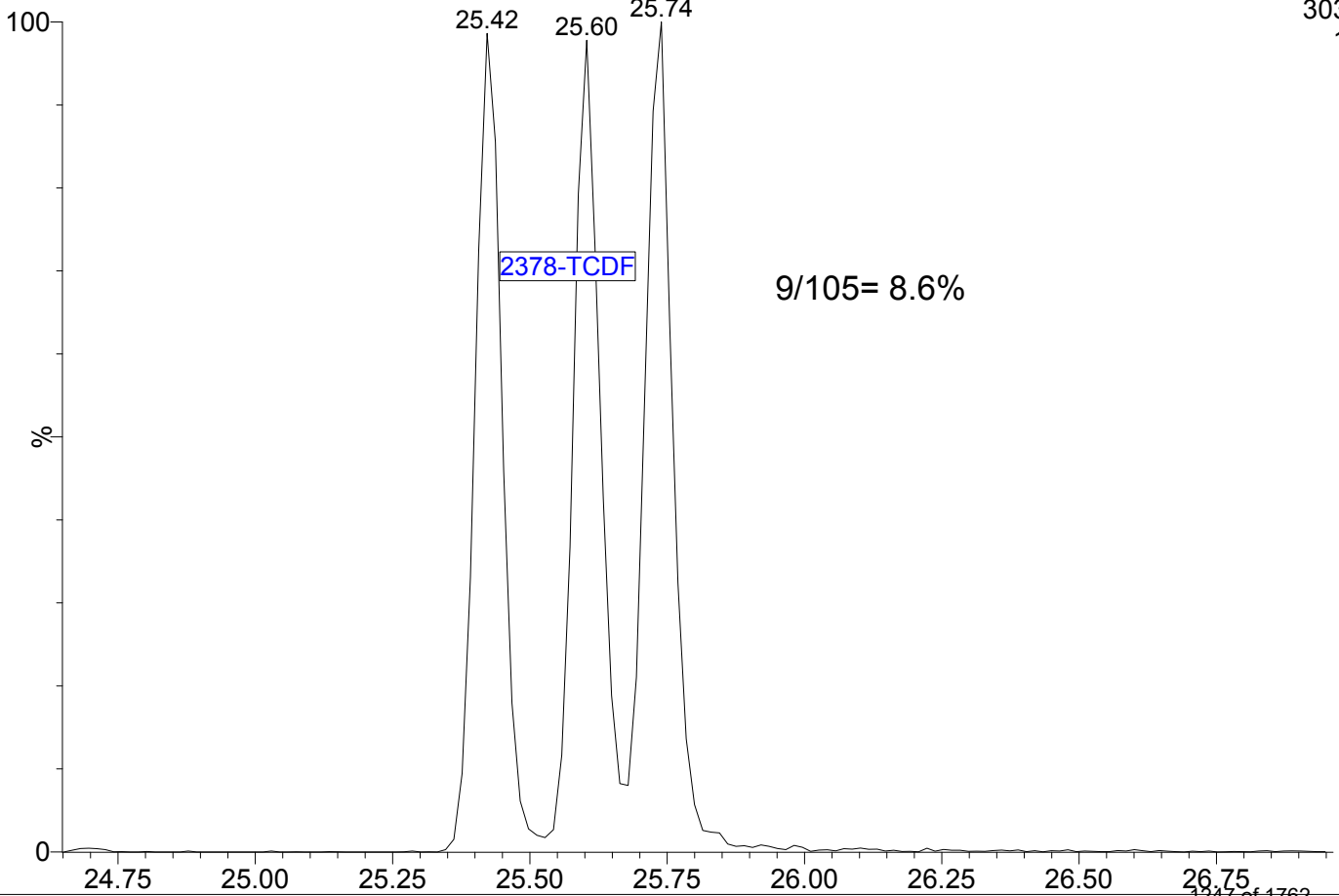


18100514

1: Voltage SIR 15 Channels EI+

303.9016

1.05e6





CONTINUING CALIBRATION CHECK EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Instrument ID: AUTOSPEC01

Calibration: BH00060

Lab File ID: 18100524

Calibration Date: 08/20/18 14:31

Sequence: SGJ0093

Injection Date: 10/06/18

Lab Sample ID: SGJ0093-CCV2

Injection Time: 04:20

Sequence Name: CS3V3

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.4	0.8337180	0.8641486		3.7	16
2,3,7,8-TCDD	A	10.000	10.1	0.9819180	0.9898415		0.8	22
1,2,3,7,8-PeCDF	A	50.000	53.8	0.8522416	0.9176751		7.7	18
2,3,4,7,8-PeCDF	A	50.000	54.3	0.9441194	1.0251810		8.6	18
1,2,3,7,8-PeCDD	A	50.000	54.9	1.0287800	1.1299600		9.8	22
1,2,3,4,7,8-HxCDF	A	50.000	53.8	0.9632160	1.0367610		7.6	10
1,2,3,6,7,8-HxCDF	A	50.000	53.7	0.9172847	0.9860661		7.5	12
2,3,4,6,7,8-HxCDF	A	50.000	53.9	0.9906397	1.0670320		7.7	12
1,2,3,7,8,9-HxCDF	A	50.000	52.8	0.9375054	0.9894416		5.5	10
1,2,3,4,7,8-HxCDD	A	50.000	51.8	0.9208855	0.9536102		3.6	22
1,2,3,6,7,8-HxCDD	A	50.000	54.0	0.9039972	0.9769588		8.1	22
1,2,3,7,8,9-HxCDD	A	50.000	53.8	0.9178071	0.9881581		7.7	18
1,2,3,4,6,7,8-HpCDF	A	50.000	51.9	1.1193550	1.1619510		3.8	10
1,2,3,4,7,8,9-HpCDF	A	50.000	51.8	1.1620560	1.2043360		3.6	14
1,2,3,4,6,7,8-HpCDD	A	50.000	53.5	1.0464960	1.1191740		6.9	14
OCDF	A	100.00	108	1.1449950	1.2340310		7.8	37
OCDD	A	100.00	106	0.9837584	1.0400060		5.7	21
13C12-2,3,7,8-TCDF	A	100.00	105	1.8466610	3.8673340		4.7	29
13C12-2,3,7,8-TCDD	A	100.00	98.5	1.1711480	2.3068234		-1.5	18
13C12-1,2,3,7,8-PeCDF	A	100.00	111	1.5576870	3.4518451		10.8	24
13C12-2,3,4,7,8-PeCDF	A	100.00	112	1.5436530	3.4721399		12.5	23
13C12-1,2,3,7,8-PeCDD	A	100.00	104	0.8859776	1.8510716		4.5	38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	96.3	1.1524190	2.2195665		-3.7	24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	97.8	1.2251980	2.3971036		-2.2	30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	98.4	1.1036650	2.1717228		-1.6	27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	100	1.0456580	2.0975568		0.3	26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	98.6	1.0268910	2.0251487		-1.4	15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	96.6	1.0551470	2.0375247		-3.4	15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	112	1.0044640	2.2522489		12.1	22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	114	0.7987185	1.8189265		13.9	23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	108	0.7490178	1.6190976		8.1	18
13C12-OCDD	A	200.00	215	0.7247910	1.5614751		7.7	52
37C14-2,3,7,8-TCDD	A	10.000	10.2	1.1205810	2.2757757		1.5	

* Values outside of QC limits

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

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820\CIH.cdb 21 Aug 2018 11:13:54

ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.588	1.001	9.889e4	1.323e5	0.834	0.747	0.770	866	861	1.62e6	2.15e6	1876.7	YES	NO	bb	bb	10.365
12378-PeCDF	29.740	1.001	6.880e5	4.078e5	0.852	1.687	1.550	2171	1847	1.09e7	6.47e6	5002.5	YES	NO	bb	bb	53.839
23478-PeCDF	31.087	1.000	7.724e5	4.590e5	0.944	1.683	1.550	2171	1847	1.22e7	7.35e6	5640.0	YES	NO	bb	bb	54.293
123478-HxCDF	34.771	1.000	4.965e5	3.995e5	0.963	1.243	1.240	1347	1714	7.66e6	6.18e6	5682.9	YES	NO	bd	bd	53.818
234678-HxCDF	35.850	1.001	4.999e5	4.024e5	0.991	1.242	1.240	1347	1714	8.50e6	6.80e6	6310.0	YES	NO	bb	bb	53.856
123678-HxCDF	34.927	1.001	5.108e5	4.096e5	0.917	1.247	1.240	1347	1714	7.95e6	6.33e6	5903.8	YES	NO	db	db	53.749
123789-HxCDF	36.808	1.001	4.521e5	3.561e5	0.938	1.270	1.240	1347	1714	8.17e6	6.46e6	6060.1	YES	NO	bb	bb	52.770
1234678-HpCDF	38.533	1.000	5.190e5	5.000e5	1.119	1.038	1.050	1881	1896	9.19e6	8.74e6	4886.0	YES	NO	bb	bb	51.903
1234789-HpCDF	40.748	1.000	4.343e5	4.186e5	1.162	1.038	1.050	1881	1896	6.65e6	6.49e6	3535.8	YES	NO	bb	bb	51.819
OCDF	44.928	1.006	7.333e5	7.673e5	1.145	0.956	0.890	1520	1329	8.96e6	9.31e6	5896.0	YES	NO	bb	bb	107.776
2378-TCDD	26.222	1.001	7.025e4	8.773e4	0.982	0.801	0.770	524	684	1.13e6	1.42e6	2152.6	YES	NO	bb	bb	10.081
12378-PeCDD	31.343	1.001	4.466e5	2.770e5	1.029	1.612	1.550	1702	1305	7.27e6	4.53e6	4271.6	YES	NO	bb	bb	54.917
123478-HxCDD	35.962	1.000	4.175e5	3.345e5	0.921	1.248	1.240	849	1868	7.45e6	5.95e6	8778.9	YES	NO	bd	bd	51.777
123678-HxCDD	36.073	1.000	4.318e5	3.433e5	0.904	1.258	1.240	849	1868	7.56e6	5.99e6	8909.4	YES	NO	db	db	54.035
123789-HxCDD	36.429	1.010	4.317e5	3.499e5	0.918	1.234	1.240	849	1868	7.76e6	6.30e6	9145.1	YES	NO	bb	bb	53.832
1234678-HpCDD	40.013	1.000	3.639e5	3.417e5	1.046	1.065	1.050	1412	1672	5.98e6	5.56e6	4237.0	YES	NO	bb	bb	53.472
OCDD	44.681	1.000	5.899e5	6.748e5	0.984	0.874	0.890	534	891	7.37e6	8.49e6	13788.6	YES	NO	bb	bb	105.718
13C-2378-TCDF	25.573	1.007	1.188e6	1.488e6	1.847	0.798	0.770	2193	1158	1.89e7	2.36e7	8636.0	YES	NO	bb	bb	104.712
13C-12378-PeCDF	29.718	1.170	1.461e6	9.278e5	1.558	1.574	1.550	1684	2437	2.28e7	1.46e7	13534.4	YES	NO	bb	bb	110.800
13C-23478-PeCDF	31.076	1.224	1.467e6	9.354e5	1.544	1.568	1.550	1684	2437	2.33e7	1.49e7	13837.7	YES	NO	bb	bb	112.465
13C-123478-HxCDF	34.760	0.955	5.799e5	1.149e6	1.152	0.505	0.510	1985	2126	9.02e6	1.76e7	4543.4	YES	NO	bd	bd	96.300
13C-123678-HxCDF	34.904	0.958	6.218e5	1.245e6	1.225	0.499	0.510	1985	2126	9.56e6	1.91e7	4817.0	YES	NO	db	db	97.825
13C-234678-HxCDF	35.828	0.984	5.660e5	1.125e6	1.104	0.503	0.510	1985	2126	9.45e6	1.88e7	4759.0	YES	NO	bb	bb	98.387
13C-123789-HxCDF	36.785	1.010	5.468e5	1.087e6	1.046	0.503	0.510	1985	2126	9.81e6	1.96e7	4943.9	YES	NO	bb	bb	100.298
13C-1234678-HpCDF	38.522	1.058	5.398e5	1.214e6	1.004	0.444	0.440	1424	2061	9.30e6	2.09e7	6531.9	YES	NO	bb	bb	112.112
13C-1234789-HpCDF	40.737	1.119	4.323e5	9.842e5	0.799	0.439	0.440	1424	2061	6.59e6	1.49e7	4627.1	YES	NO	bb	bb	113.865
13C-1234-TCDD	25.392	0.000	6.048e5	7.790e5	1.000	0.776	0.770	973	743	9.77e6	1.25e7	10043.8	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.207	1.032	6.947e5	9.014e5	1.171	0.771	0.770	973	743	1.11e7	1.42e7	11361.2	YES	NO	bb	bb	98.486
13C-12378-PeCDD	31.320	1.234	7.958e5	4.850e5	0.886	1.641	1.550	446	631	1.27e7	7.75e6	28520.7	YES	NO	bb	bb	104.465
13C-123478-HxCDD	35.951	0.987	8.869e5	6.902e5	1.027	1.285	1.240	932	1055	1.49e7	1.17e7	16042.8	YES	NO	bd	bd	98.606
13C-123678-HxCDD	36.062	0.990	8.874e5	6.993e5	1.055	1.269	1.240	932	1055	1.53e7	1.21e7	16451.7	YES	NO	db	db	96.552
13C-1234678-HpCDD	40.002	1.098	6.543e5	6.066e5	0.749	1.079	1.050	1616	1334	1.02e7	9.45e6	6330.5	YES	NO	bb	bb	108.081
13C-OCDD	44.672	1.227	1.164e6	1.268e6	0.725	0.918	0.890	1458	1982	1.43e7	1.55e7	9826.3	YES	NO	bb	bb	215.438
13C-123789-HxCDD	36.418	0.000	8.683e5	6.892e5	1.000	1.260	1.240	932	1055	1.59e7	1.27e7	17050.3	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.222	1.033	1.575e5	1.121	1.121			400		2.55e6		6381.5	YES		bb		10.154

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

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1368-TCDF	22.068	0.863	1.141e5	1.458e5	1.020	0.782	0.770	866	861	1.91e6	2.43e6	2206.8	YES	NO	bb	bb	9.519
1289-TCDF	27.084	1.059	9.944e4	1.281e5	0.818	0.776	0.770	866	861	1.55e6	2.03e6	1787.7	YES	NO	db	db	10.393
13468-PECDF	26.933	0.906	7.284e5	4.793e5	1.163	1.520	1.550	344	442	1.18e7	7.74e6	34357.3	YES	NO	bb	bb	43.475
12389-PECDF	32.133	1.081	7.422e5	4.397e5	0.912	1.688	1.550	2171	1847	1.13e7	6.74e6	5221.7	YES	NO	bb	bb	54.235
123468-HXCDF	33.046	0.951	5.042e5	4.041e5	1.051	1.248	1.240	1347	1714	8.05e6	6.44e6	5976.8	YES	NO	bb	bb	49.982
1368-TCDD	23.352	0.891	7.226e4	9.111e4	1.026	0.793	0.770	524	684	1.20e6	1.53e6	2282.1	YES	NO	bb	bb	9.973
1289-TCDD	26.827	1.024	7.126e4	9.082e4	0.938	0.785	0.770	524	684	1.11e6	1.42e6	2111.9	YES	NO	bb	bb	10.827
12479-PECDD	28.605	0.913	7.322e5	4.535e5	1.807	1.615	1.550	1702	1305	7.39e6	4.51e6	4339.9	YES	NO	bb	bb	51.227
12389-PECDD	31.732	1.013	5.682e5	3.533e5	1.326	1.608	1.550	1702	1305	8.96e6	5.62e6	5260.6	YES	NO	bb	bb	54.254
124679-HXCDD	33.836	0.941	4.395e5	3.522e5	1.031	1.248	1.240	849	1868	7.12e6	5.71e6	8390.6	YES	NO	bb	bb	48.667
1234679-HPCDD	38.978	0.974	4.194e5	3.886e5	1.228	1.079	1.050	1412	1672	7.21e6	6.79e6	5103.3	YES	NO	bb	bb	52.189
Total-tetrafurans			3.213e5		0.891			866		5.22e6							31.157
Total-penta1			7.285e5					344		1.18e7							43.482
Total-pentafurans			2.322e6		0.903			2171		3.64e7							171.222
Total-hexafurans			2.464e6		0.972			1347		4.03e7							264.191
Total-heptafurans			9.543e5		1.141			1881		1.59e7							103.824
Total-Furans			7.523e6		0.989			866		1.19e8							721.651
Total-tetraoxins			3.755e5		0.982			524		5.37e6							54.006
Total-pentadioxins			1.749e6		1.387			1702		2.37e7							160.622
Total-hexadioxins			1.723e6		0.944			849		2.99e7							208.664
Total-heptadioxins			7.836e5		1.137			1412		1.32e7							105.687
Total-Dioxins			5.222e6		1.088			524		7.95e7							634.697
Total-TEQ			1.274e7					524		1.98e8							1356.348
FUNCTION1 PFK			4.229e5					148854		9.43e6							0.000
FUNCTION2 PFK			1.212e5					135871		4.05e6							
FUNCTION3 PFK			0.000e0					121139		0.00e0							
FUNCTION4 PFK			1.999e5					88911		4.95e6							
FUNCTION5 PFK			1.125e5					81065		3.97e6							
FUNCTION1 HXCD...			0.000e0					154		0.00e0							
FUNCTION1 HPCD...			0.000e0					270		0.00e0							
FUNCTION2 HPCD...			4.148e2					215		7.84e3							0.000
FUNCTION3 OCDPE			0.000e0					296		0.00e0							
FUNCTION4 NCDPE			0.000e0					318		0.00e0							
FUNCTION5 DCDPE			0.000e0					311		0.00e0							

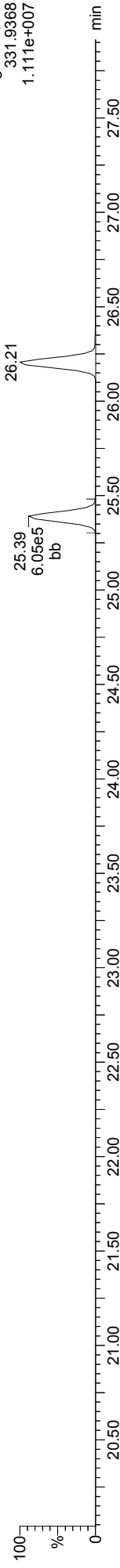
Quantify Sample Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

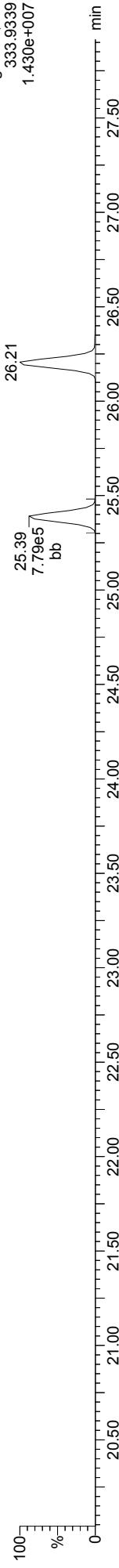
Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICH.cdb 21 Aug 2018 11:13:54

ID: CS3V3, **Name:** 18100524, **Date:** 06-Oct-2018, **Time:** 04:20:48, **Conditions:** AUTOSPEC01, **User:** PK

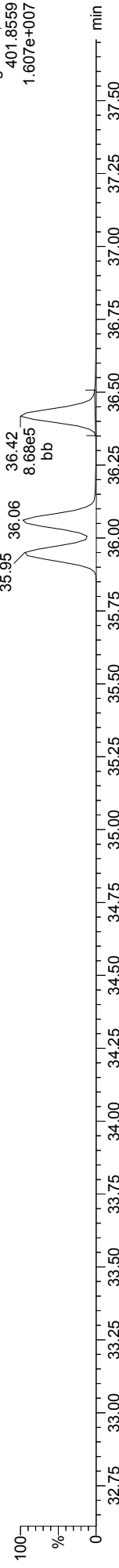
13C-1234-TCDD
18100524



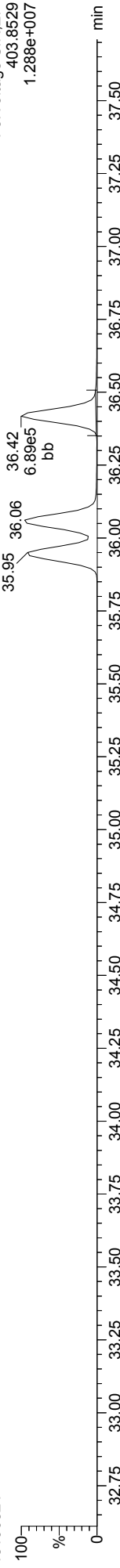
13C-1234-TCDD
18100524



13C-123789-HxCDD
18100524



13C-123789-HxCDD
18100524

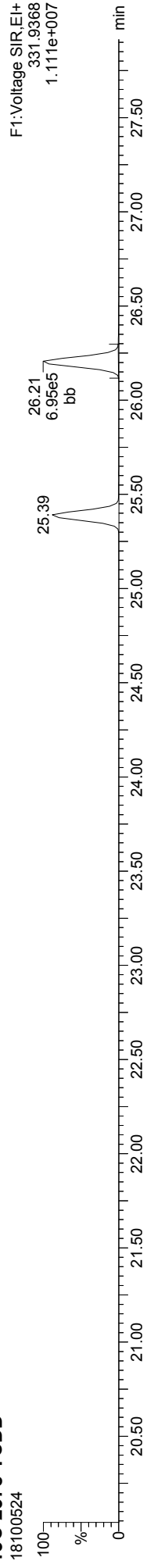


Quantify Sample Report

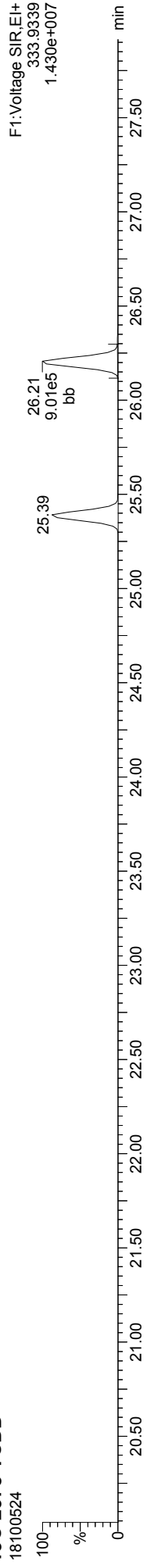
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

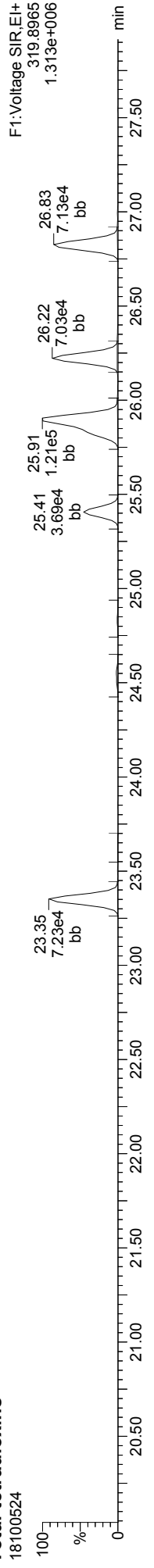
13C-2378-TCDD



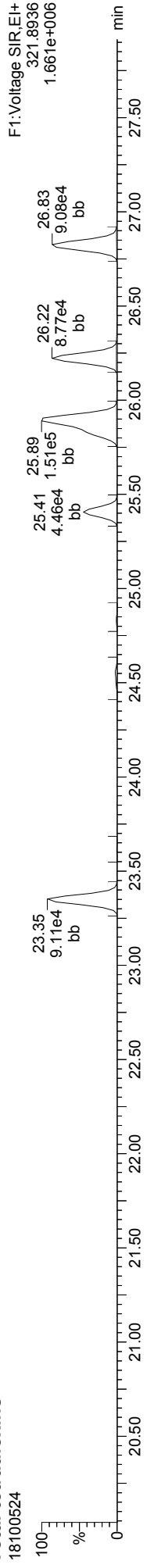
13C-2378-TCDD



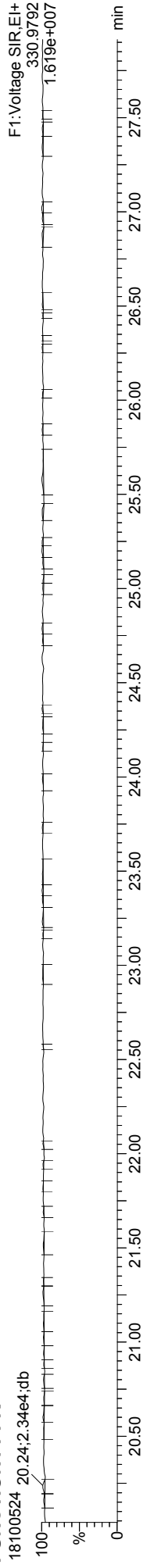
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK

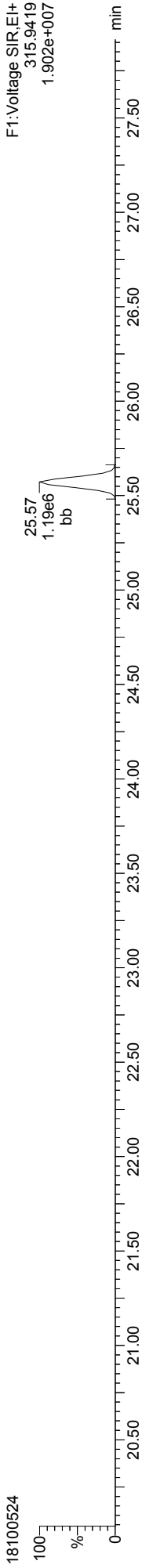


Quantify Sample Report

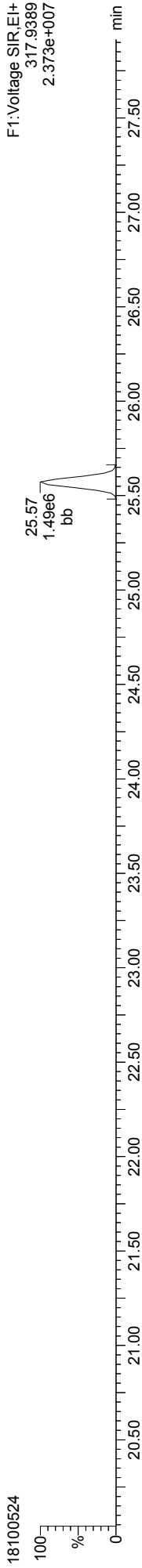
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

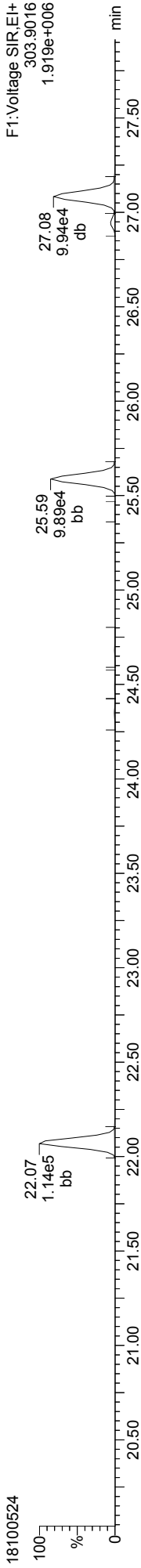
13C-2378-TCDF



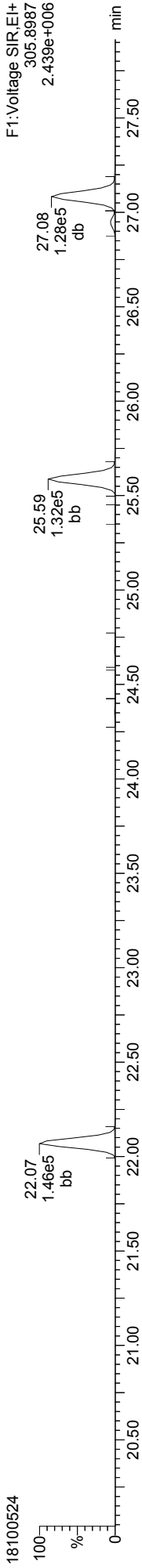
13C-2378-TCDF



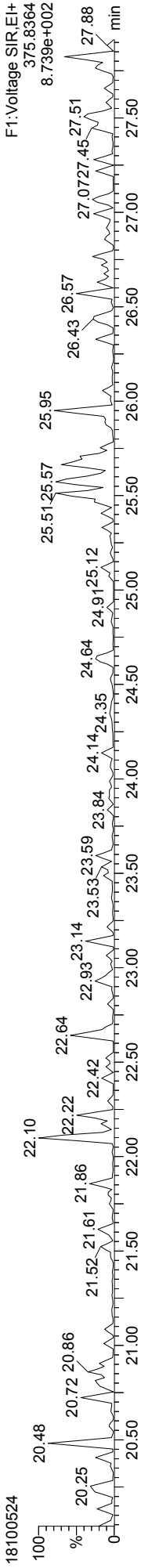
Total-tetrafurans



Total-tetrafurans



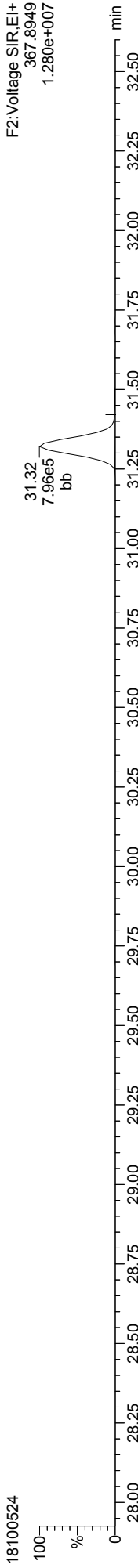
FUNCTION1 HXCDPE



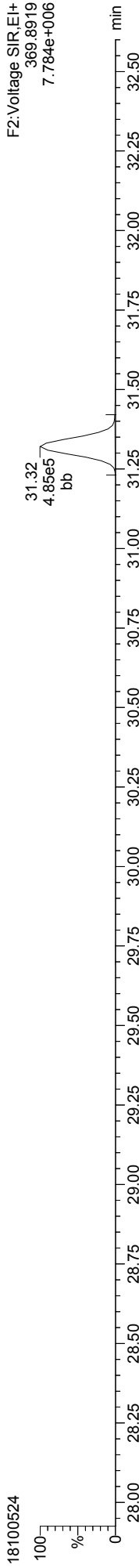
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\18100524.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

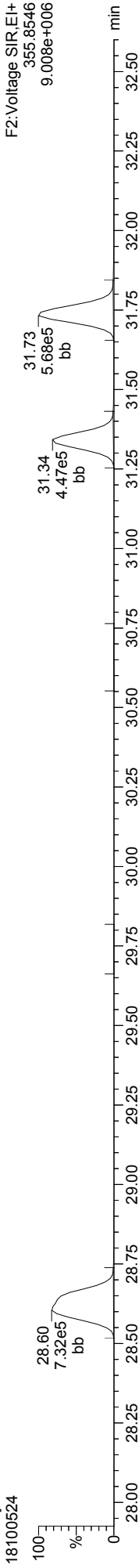
13C-12378-PeCDD



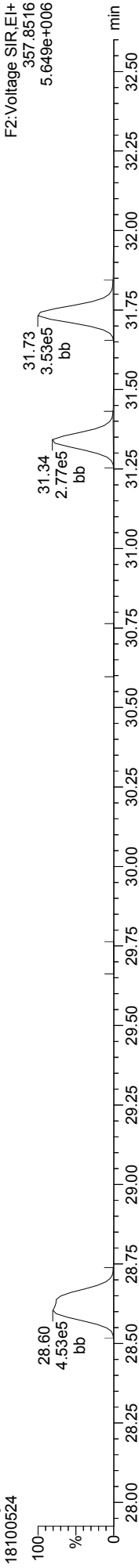
13C-12378-PeCDD



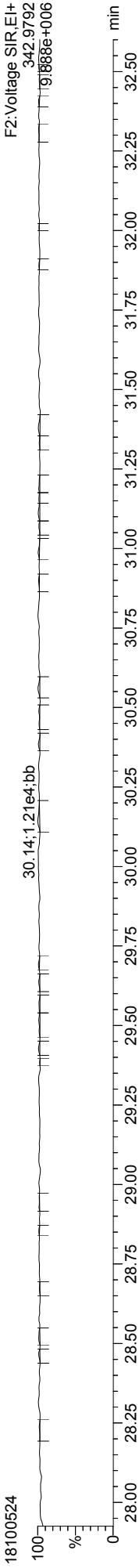
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK

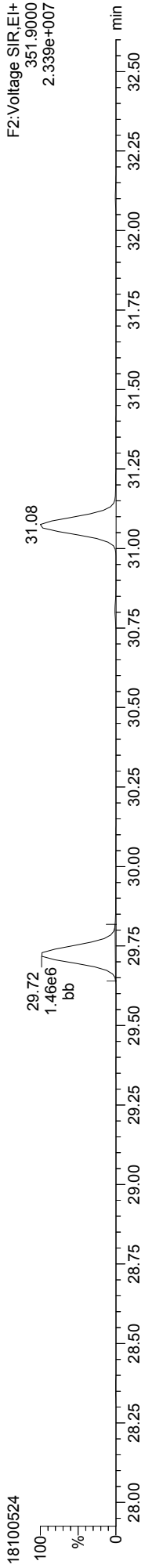


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

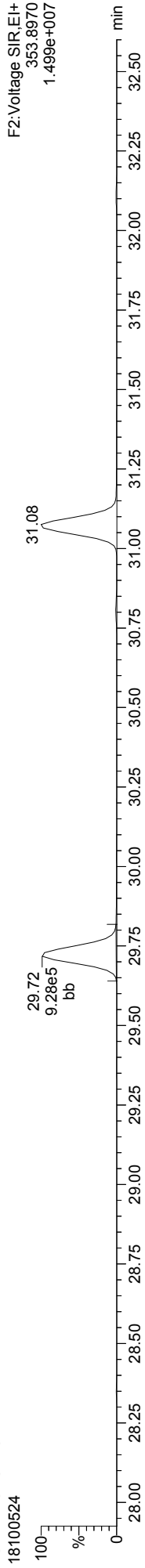
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

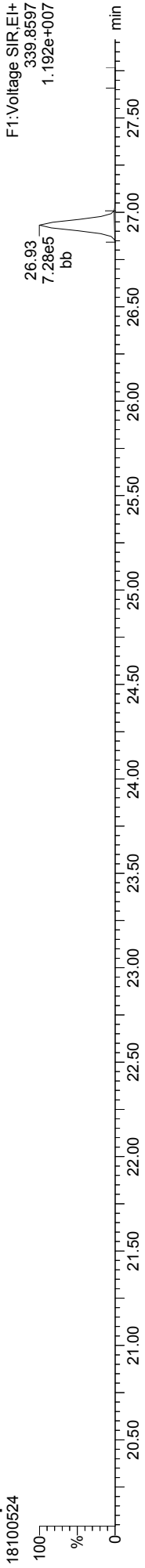
13C-12378-PeCDF



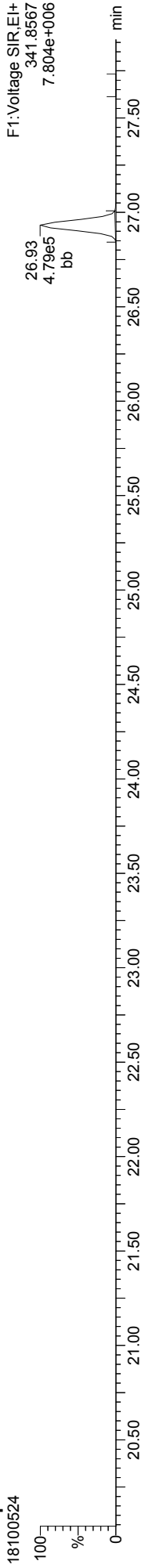
13C-12378-PeCDF



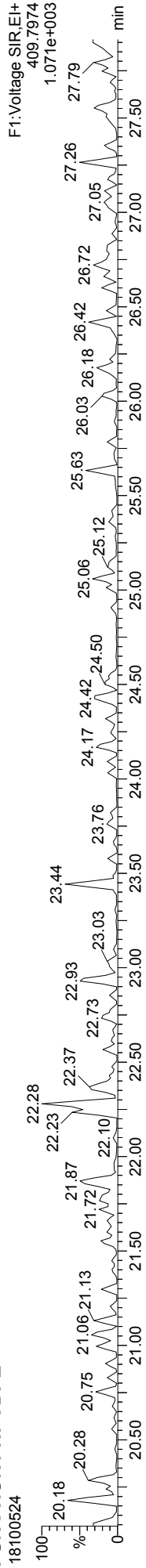
Total-penta1



Total-penta1



FUNCTION1 HPCDPE

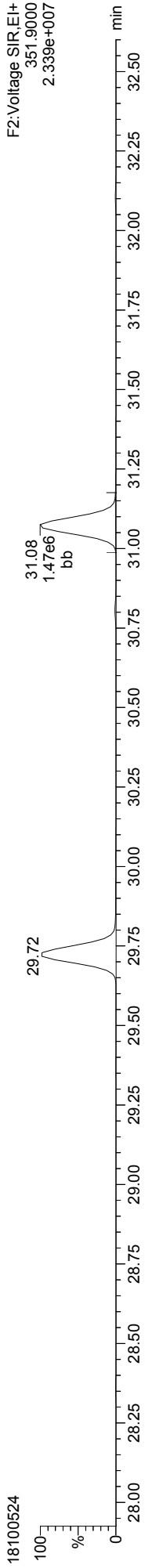


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

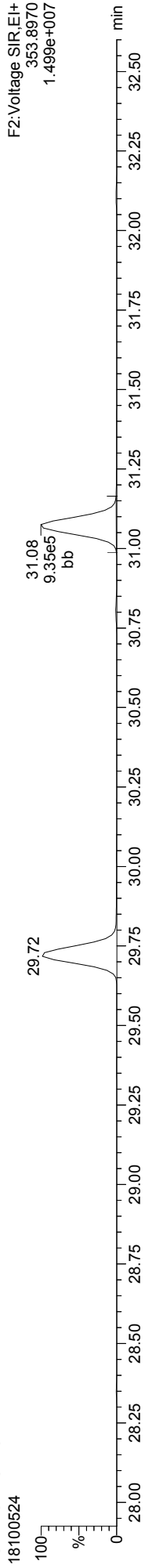
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Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

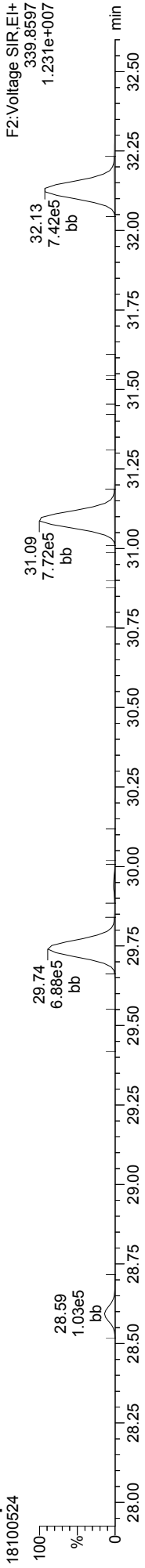
13C-23478-PeCDF



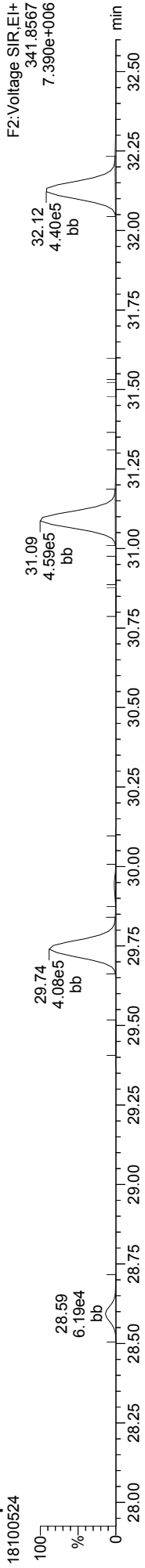
13C-23478-PeCDF



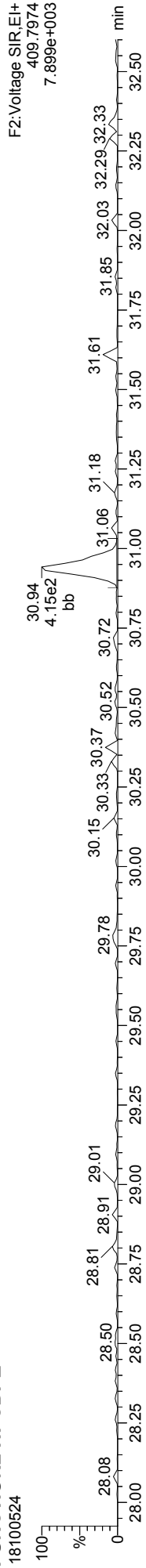
Total-pentafurans



Total-pentafurans



FUNCTION2 HPCDPE

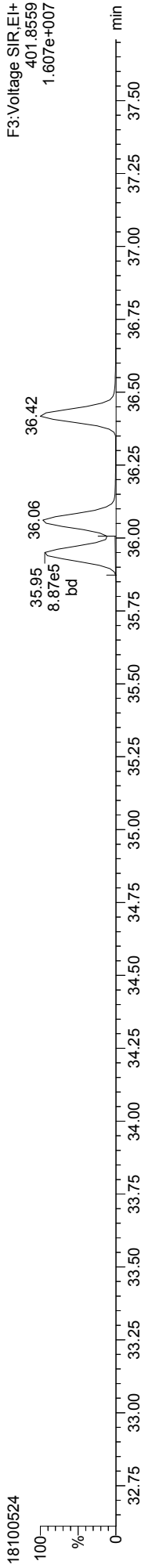


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

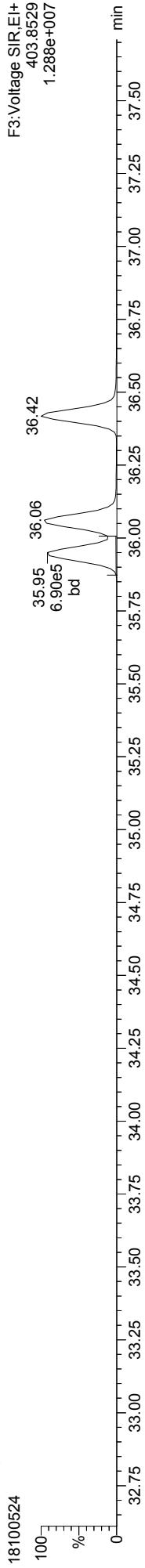
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Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

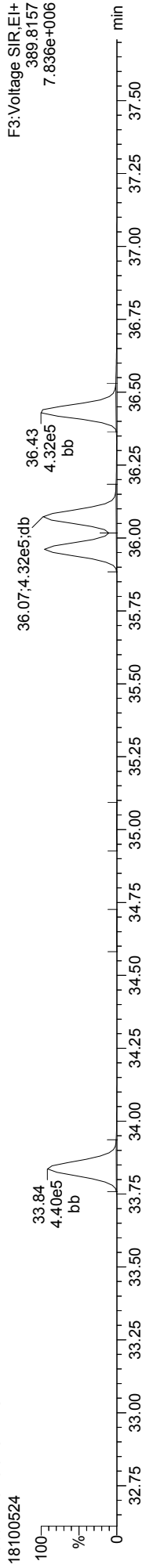
13C-123478-HxCDD



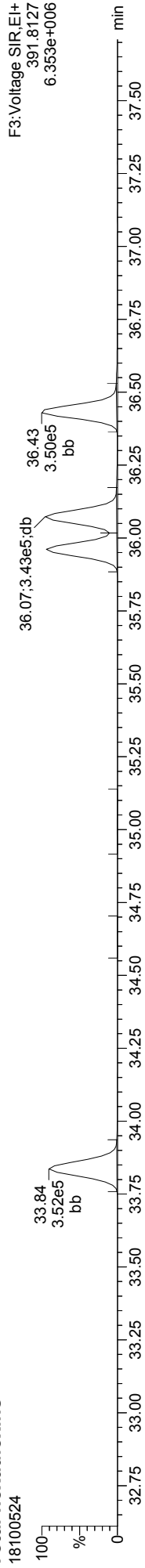
13C-123478-HxCDD



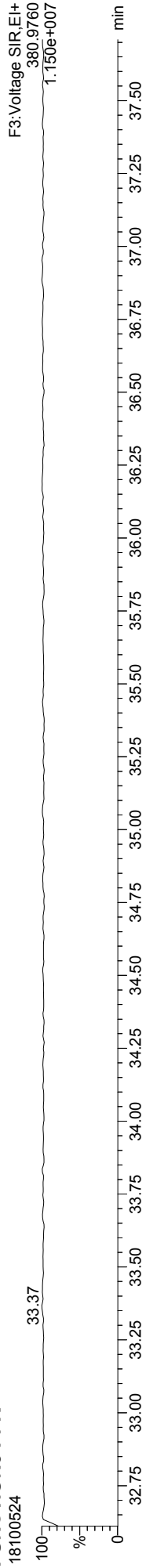
Total-hexadioxins



Total-hexadioxins



FUNCTION3 PFK

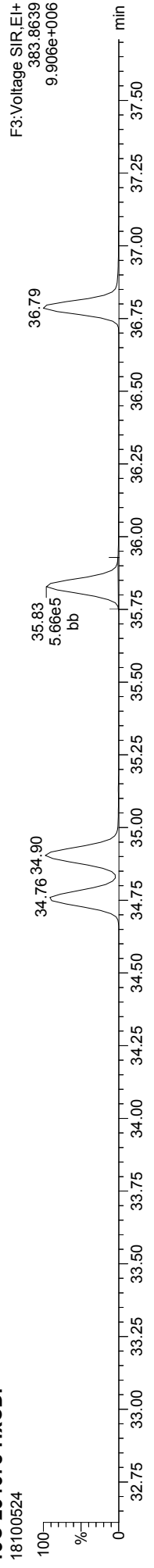


Quantify Sample Report MassLynx MassLynx V4.1 SCN909

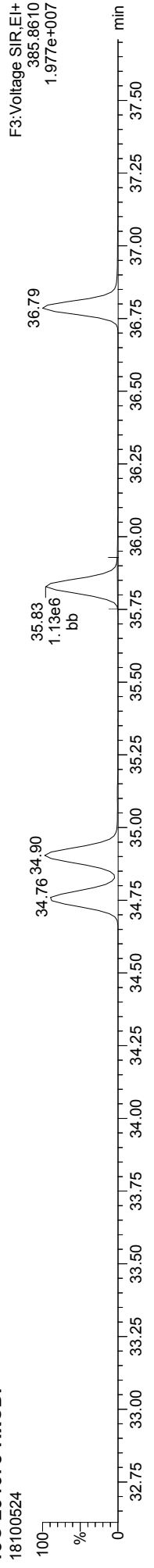
Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

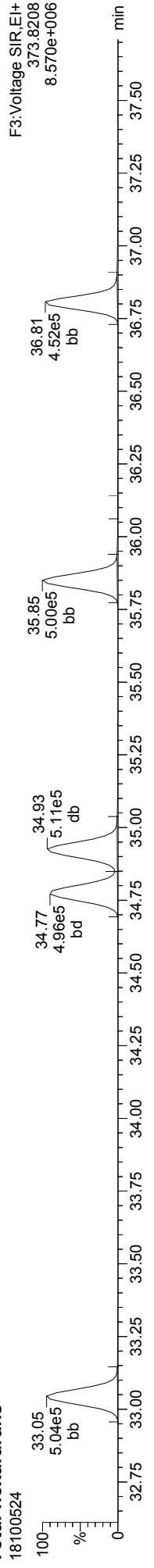
13C-234678-HxCDF



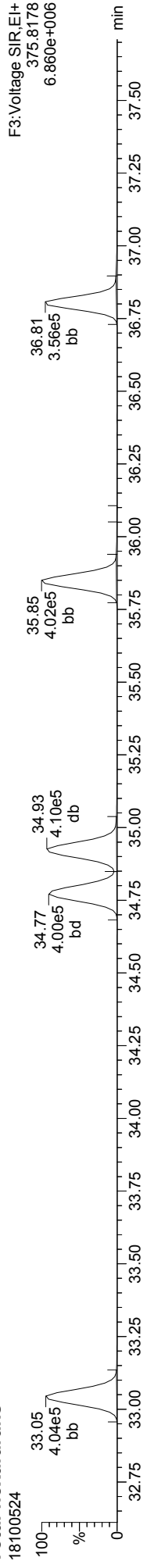
13C-234678-HxCDF



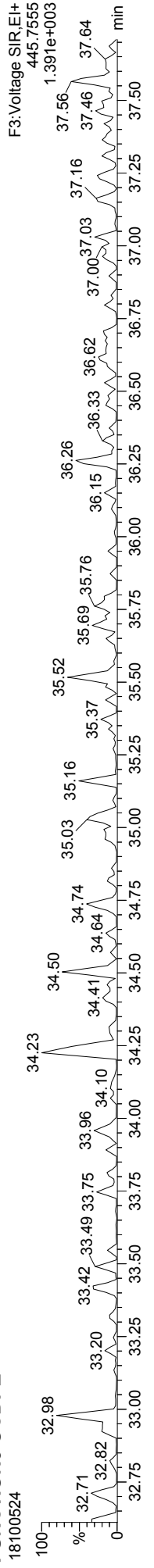
Total-hexafurans



Total-hexafurans



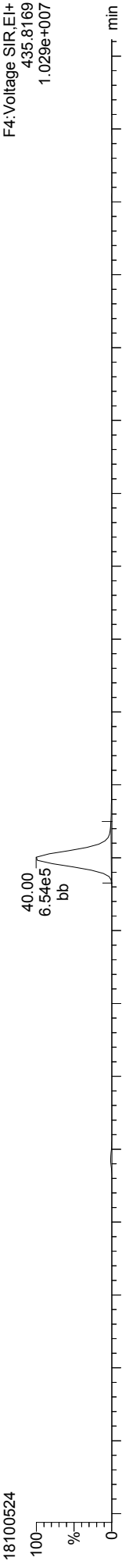
FUNCTION3 OCDPE



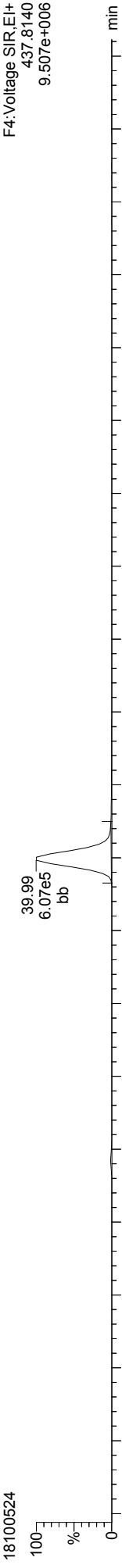
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\18100524.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

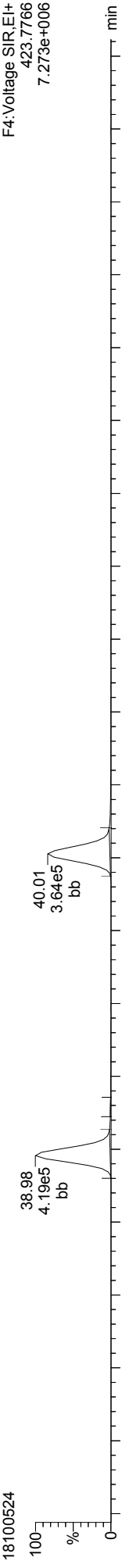
13C-1234678-HpCDD



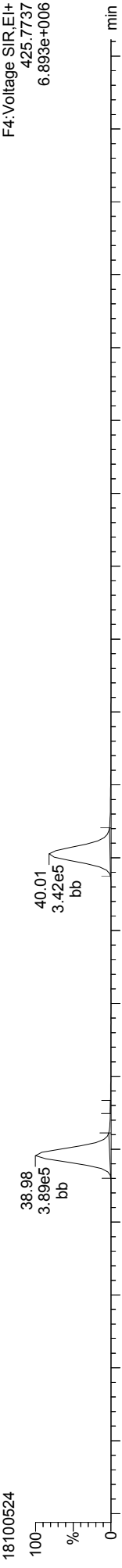
13C-1234678-HpCDD



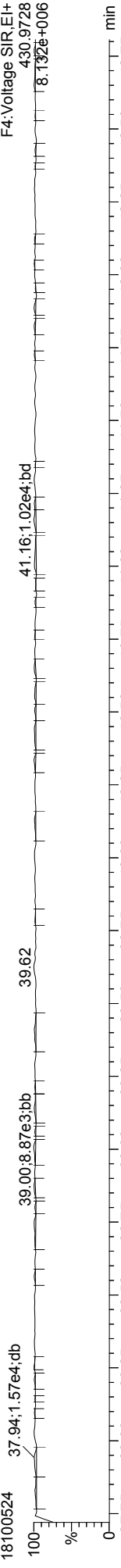
Total-heptadioxins



Total-heptadioxins



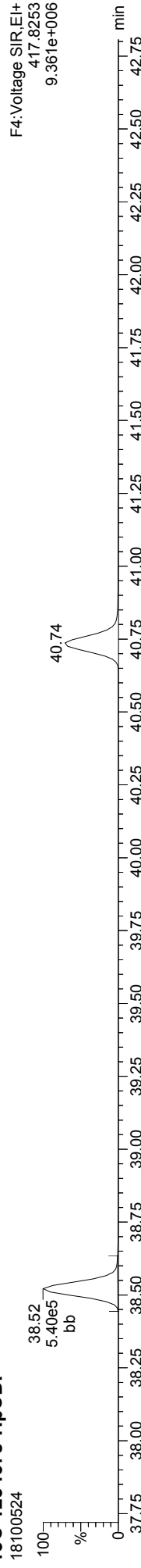
FUNCTION4 PFK



Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

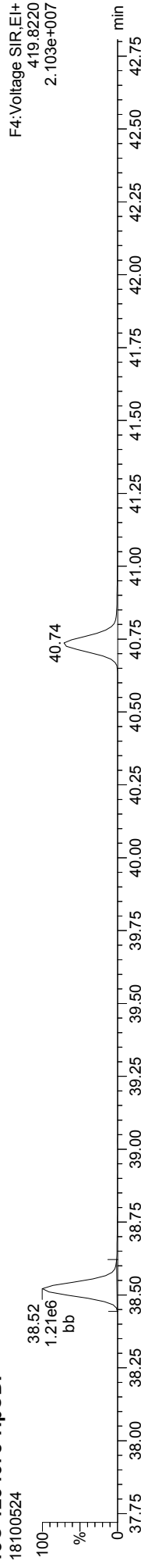
ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

13C-1234678-HpCDF



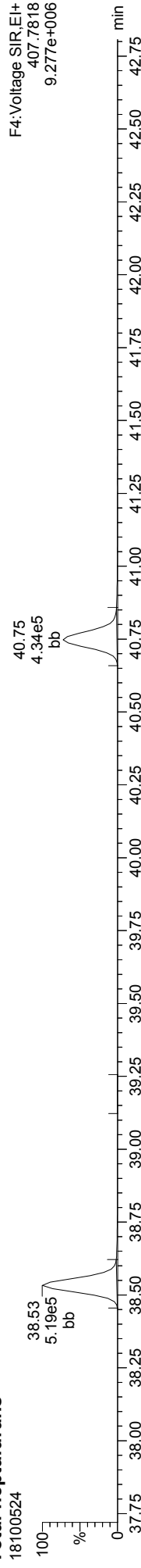
F4:Voltage SIR,EI+
417.8253
9.361e+006

13C-1234678-HpCDF



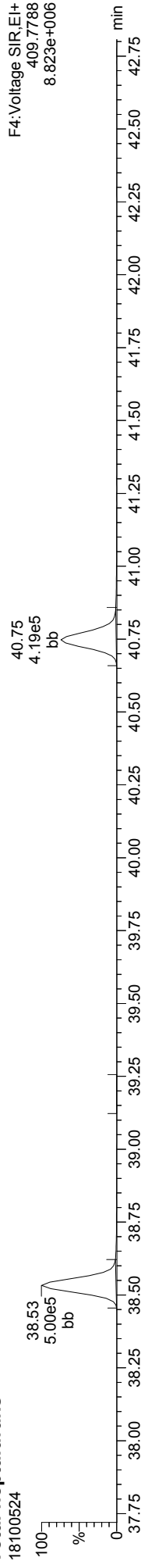
F4:Voltage SIR,EI+
419.8220
2.103e+007

Total-heptafurans



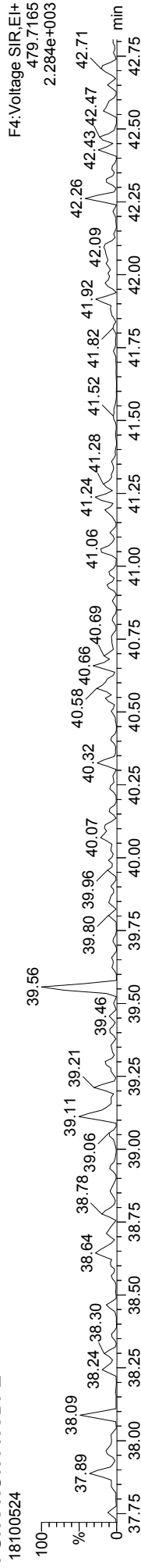
F4:Voltage SIR,EI+
407.7818
9.277e+006

Total-heptafurans



F4:Voltage SIR,EI+
409.7788
8.823e+006

FUNCTION4 NCDPE

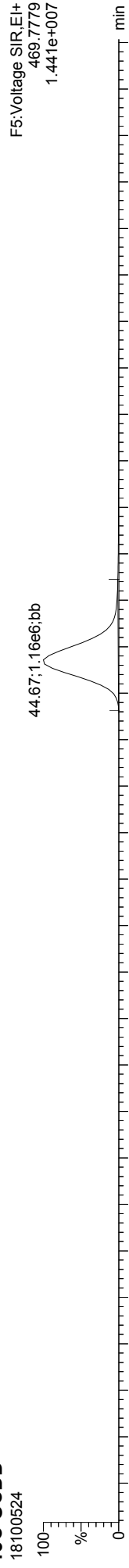


F4:Voltage SIR,EI+
479.7165
2.284e+003

Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\18100524.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

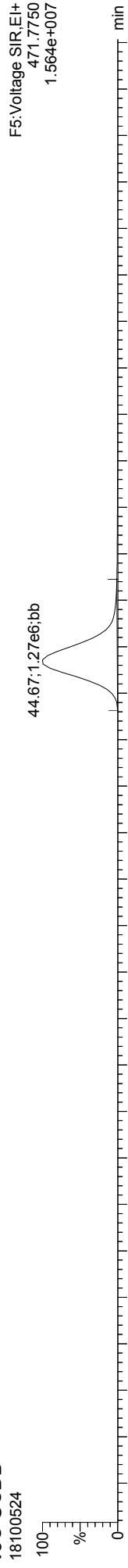
ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

13C-OCDD



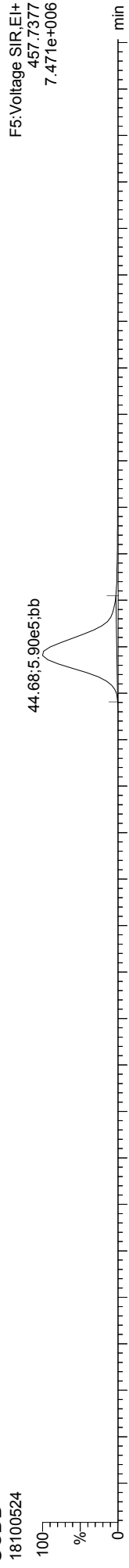
F5:\Voltage SIR,EI+
469.7779
1.441e+007

13C-OCDD



F5:\Voltage SIR,EI+
471.7750
1.564e+007

OCDD



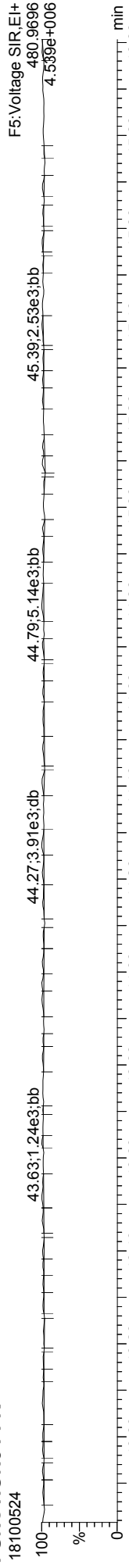
F5:\Voltage SIR,EI+
457.7377
7.471e+006

OCDD



F5:\Voltage SIR,EI+
459.7348
8.589e+006

FUNCTION5 PFK

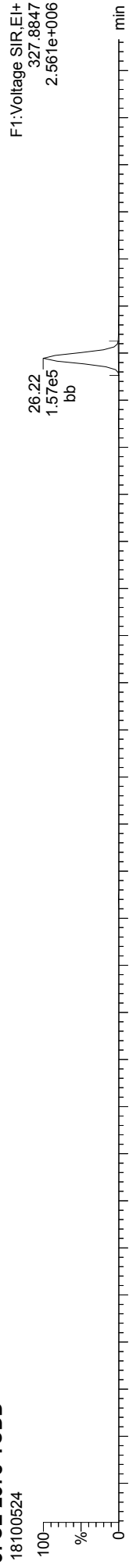


F5:\Voltage SIR,EI+
480.9696
4.589e+006

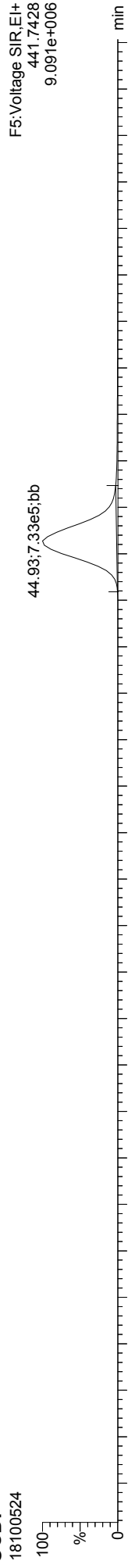
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: T:\Autospec\Processed Data Batch\18100524.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:20:21 Pacific Daylight Time

ID: CS3V3, Name: 18100524, Date: 06-Oct-2018, Time: 04:20:48, Conditions: AUTOSPEC01, User: PK

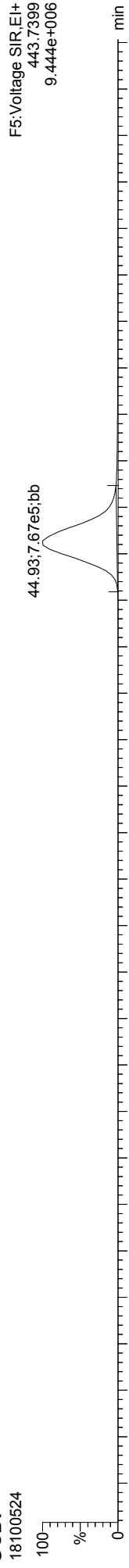
37CL-2378-TCDD



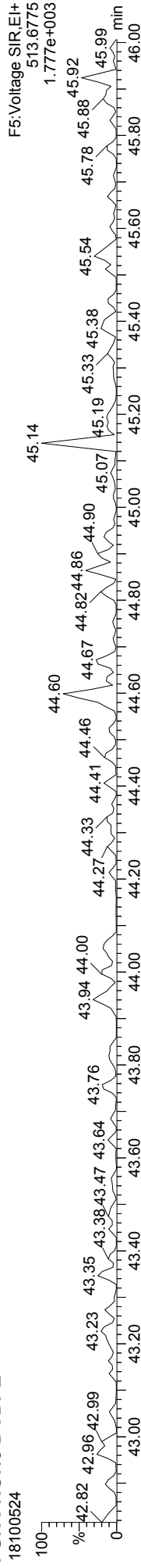
OCDF



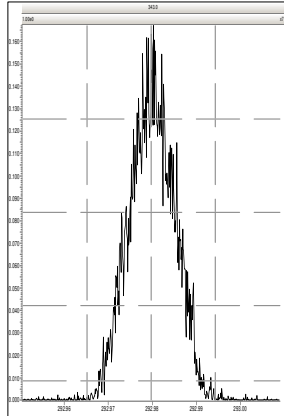
OCDF



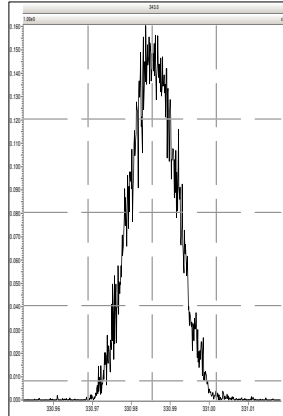
FUNCTION5 DCDPE



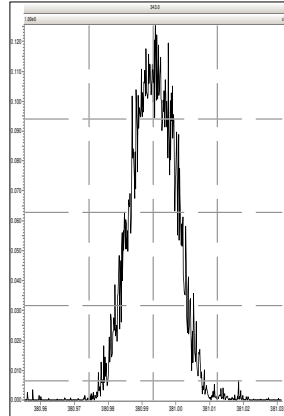
M 292.9824 R 13208



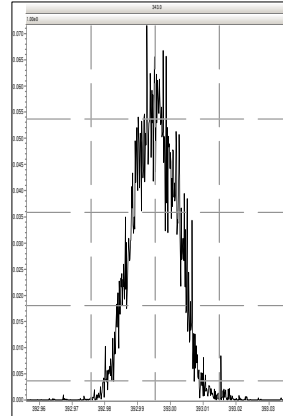
M 330.9792 R 12886



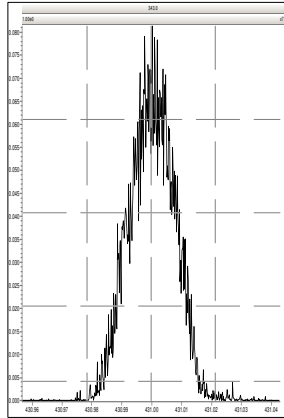
M 380.9760 R 13737



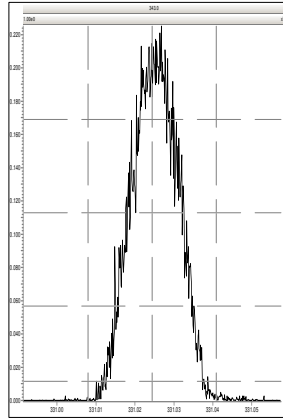
M 392.9760 R 14045



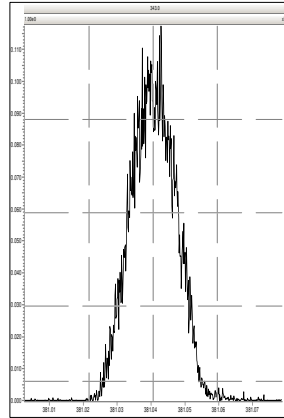
M 430.9728 R 13661



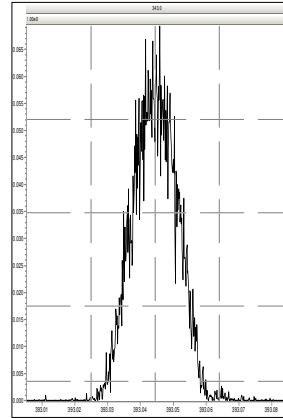
M 330.9792 R 13333



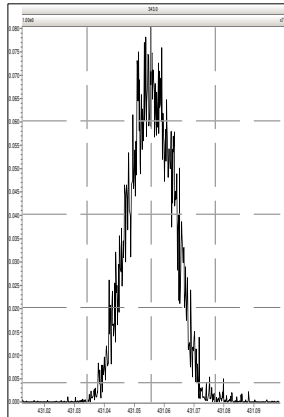
M 380.9760 R 13262



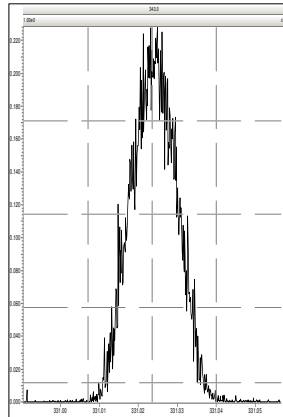
M 392.9760 R 14536



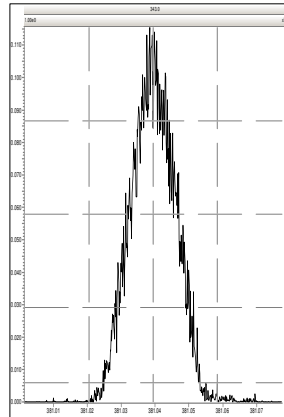
M 430.9728 R 13333



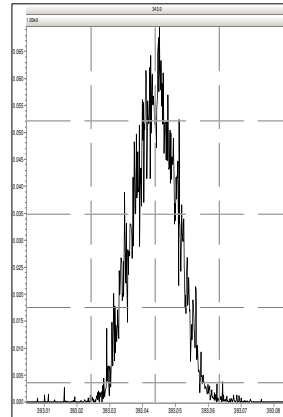
M 330.9792 R 13097



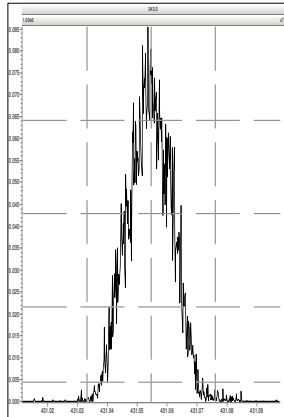
M 380.9760 R 13332



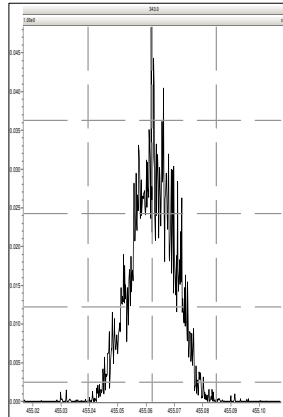
M 392.9760 R 14125



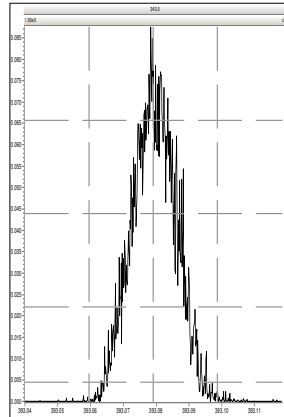
M 430.9728 R 13368



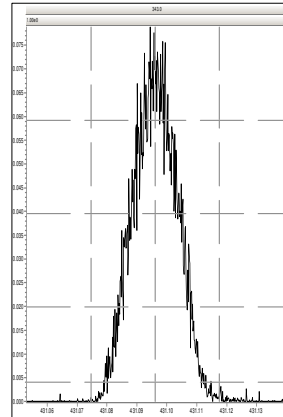
M 454.9728 R 14489



M 392.9760 R 13858

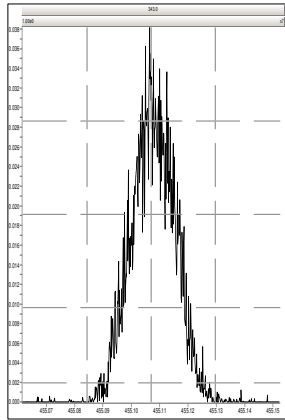


M 430.9728 R 13588

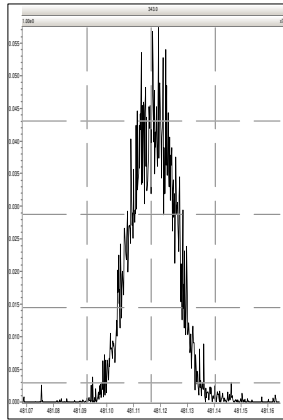


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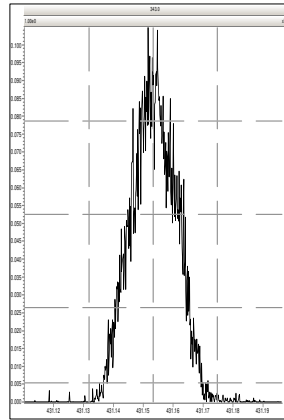
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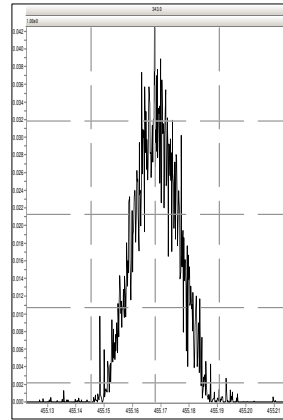
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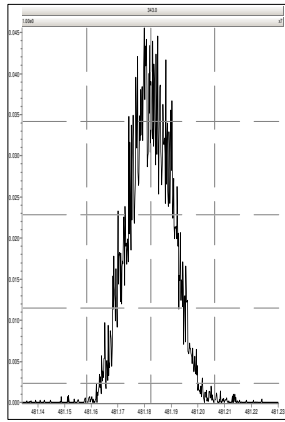
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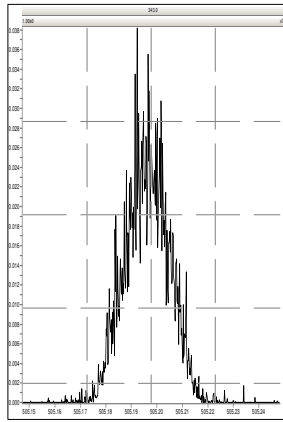
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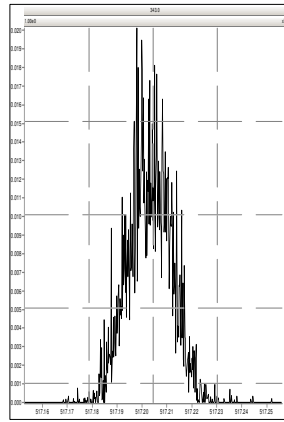
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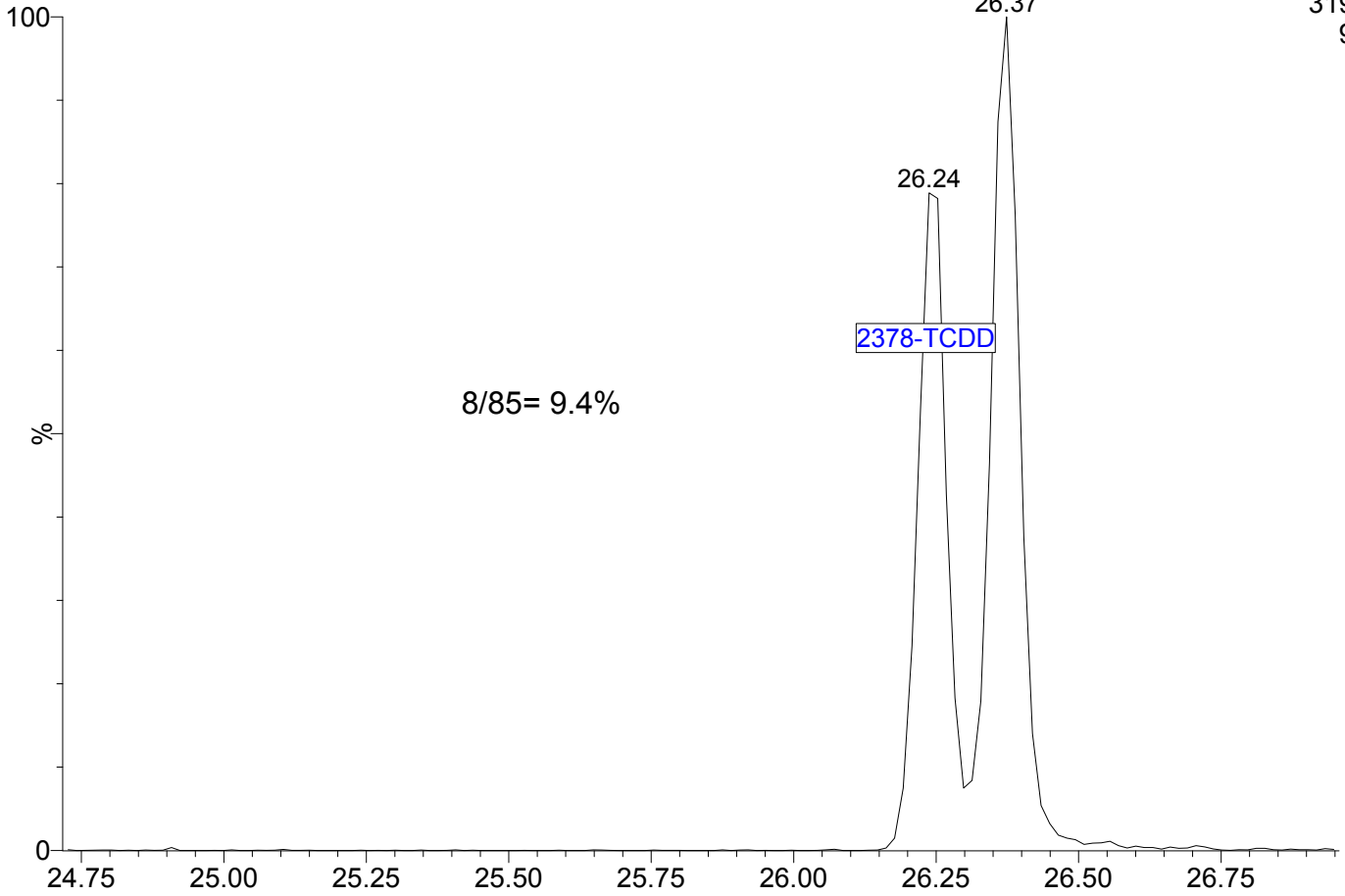


18100525

1: Voltage SIR 15 Channels EI+

319.8965

9.05e5

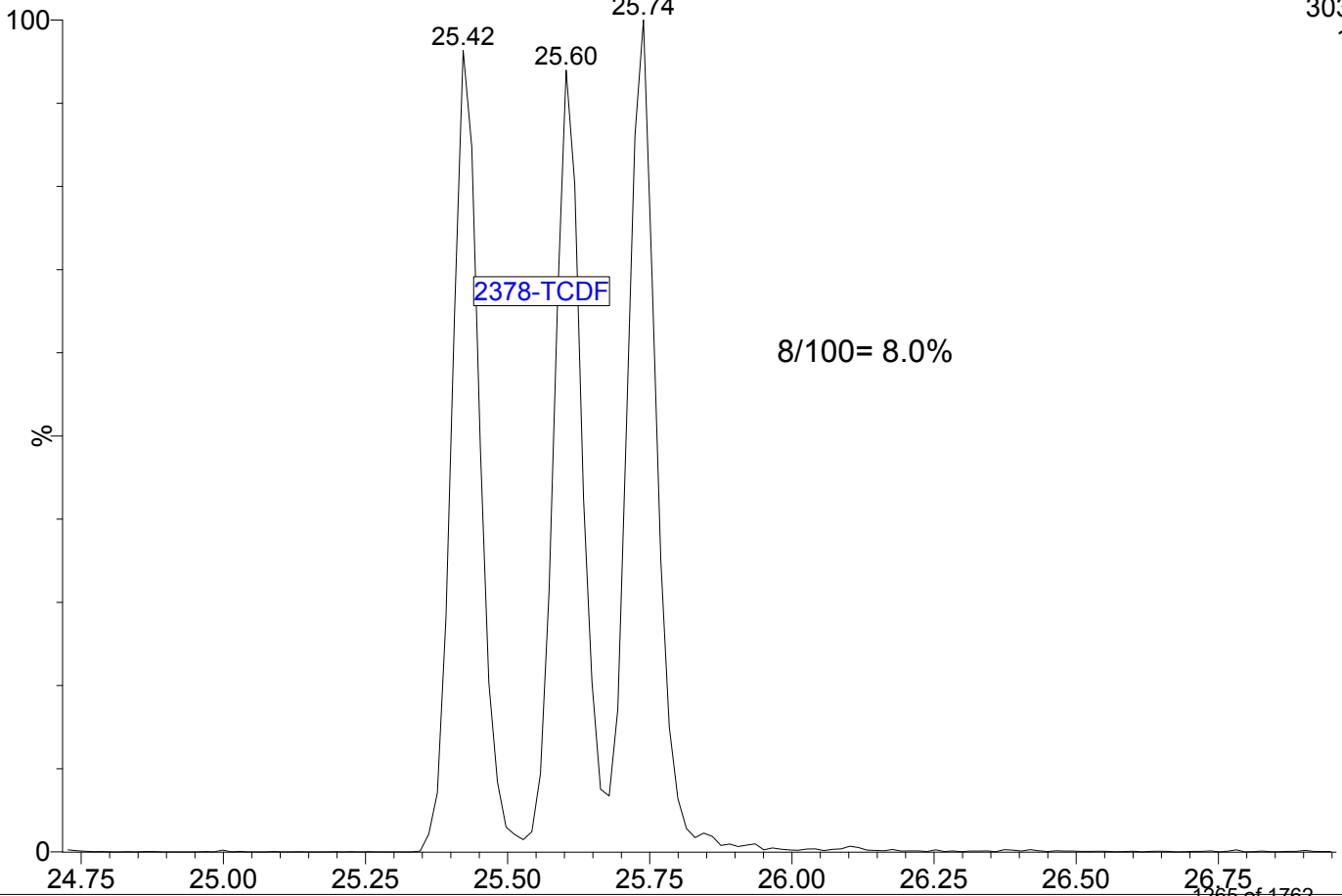


18100525

1: Voltage SIR 15 Channels EI+

303.9016

1.14e6





CONTINUING CALIBRATION CHECK EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor OEA, LLC

Project: Port Gamble - OMMP LTM

Instrument ID: AUTOSPEC01

Calibration: BH00060

Lab File ID: 18092713A

Calibration Date: 08/20/18 14:31

Sequence: SGI0436

Injection Date: 09/27/18

Lab Sample ID: SGI0436-CCV1

Injection Time: 23:32

Sequence Name: CS3T2

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.0	0.8337180	0.8338668		0.02	16
2,3,7,8-TCDD	A	10.000	10.4	0.9819180	1.0174500		3.6	22
1,2,3,7,8-PeCDF	A	50.000	53.1	0.8522416	0.9045935		6.1	18
2,3,4,7,8-PeCDF	A	50.000	54.0	0.9441194	1.0188150		7.9	18
1,2,3,7,8-PeCDD	A	50.000	54.8	1.0287800	1.1268520		9.5	22
1,2,3,4,7,8-HxCDF	A	50.000	53.1	0.9632160	1.0222530		6.1	10
1,2,3,6,7,8-HxCDF	A	50.000	52.4	0.9172847	0.9618021		4.9	12
2,3,4,6,7,8-HxCDF	A	50.000	52.6	0.9906397	1.0420290		5.2	12
1,2,3,7,8,9-HxCDF	A	50.000	51.7	0.9375054	0.9691785		3.4	10
1,2,3,4,7,8-HxCDD	A	50.000	52.3	0.9208855	0.9625137		4.5	22
1,2,3,6,7,8-HxCDD	A	50.000	51.2	0.9039972	0.9264221		2.5	22
1,2,3,7,8,9-HxCDD	A	50.000	53.5	0.9178071	0.9818808		7.0	18
1,2,3,4,6,7,8-HpCDF	A	50.000	51.7	1.1193550	1.1572070		3.4	10
1,2,3,4,7,8,9-HpCDF	A	50.000	51.4	1.1620560	1.1934480		2.7	14
1,2,3,4,6,7,8-HpCDD	A	50.000	53.5	1.0464960	1.1190280		6.9	14
OCDF	A	100.00	109	1.1449950	1.2468820		8.9	37
OCDD	A	100.00	107	0.9837584	1.0551810		7.3	21
13C12-2,3,7,8-TCDF	A	100.00	107	1.8466610	3.9433866		6.8	29
13C12-2,3,7,8-TCDD	A	100.00	97.5	1.1711480	2.2840510		-2.5	18
13C12-1,2,3,7,8-PeCDF	A	100.00	107	1.5576870	3.3463636		7.4	24
13C12-2,3,4,7,8-PeCDF	A	100.00	107	1.5436530	3.3057763		7.1	23
13C12-1,2,3,7,8-PeCDD	A	100.00	98.6	0.8859776	1.7472115		-1.4	38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	100	1.1524190	2.3138329		0.4	24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	103	1.2251980	2.5243812		3.0	30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	102	1.1036650	2.2407229		1.5	27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	101	1.0456580	2.1083271		0.8	26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	99.2	1.0268910	2.0373420		-0.8	15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	104	1.0551470	2.1881577		3.7	15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	113	1.0044640	2.2632417		12.7	22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	113	0.7987185	1.7982053		12.6	23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	105	0.7490178	1.5690048		4.7	18
13C12-OCDD	A	200.00	217	0.7247910	1.5699089		8.3	52
37C14-2,3,7,8-TCDD	A	10.000	10.0	1.1205810	2.2492152		0.4	21

* Values outside of QC limits

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909
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 Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
 Printed: Friday, September 28, 2018 11:58:54 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
 Calibration: T:\Autospec\Curves\180820ICIH.cdb 21 Aug 2018 11:13:54

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.603	1.001	7.924e4	1.062e5	0.834	0.746	0.770	768	1045	1.30e6	1.71e6	1698.4	YES	NO	bb	bb	10.002
12378-PeCDF	29.759	1.001	5.356e5	3.181e5	0.852	1.684	1.550	2346	2387	8.65e6	5.10e6	3687.6	YES	NO	bb	bb	53.071
23478-PeCDF	31.106	1.000	5.936e5	3.562e5	0.944	1.667	1.550	2346	2387	9.25e6	5.59e6	3943.2	YES	NO	bb	bb	53.956
123478-HxCDF	34.790	1.000	3.807e5	3.023e5	0.963	1.259	1.240	1993	1770	5.96e6	4.69e6	2989.4	YES	NO	bd	bd	53.065
234678-HxCDF	35.859	1.000	3.739e5	3.003e5	0.991	1.245	1.240	1993	1770	6.21e6	5.02e6	3117.5	YES	NO	bb	bb	52.594
123678-HxCDF	34.946	1.001	3.915e5	3.096e5	0.917	1.265	1.240	1993	1770	6.02e6	4.73e6	3020.1	YES	NO	db	db	52.427
123789-HxCDF	36.816	1.000	3.308e5	2.592e5	0.938	1.276	1.240	1993	1770	6.01e6	4.76e6	3014.5	YES	NO	bb	bb	51.689
1234678-HpCDF	38.541	1.000	3.862e5	3.700e5	1.119	1.044	1.050	1717	2136	6.66e6	6.44e6	3878.8	YES	NO	bb	bb	51.691
1234789-HpCDF	40.767	1.001	3.181e5	3.016e5	1.162	1.055	1.050	1717	2136	4.84e6	4.58e6	2816.5	YES	NO	bb	bb	51.351
OCDF	44.934	1.006	5.504e5	5.800e5	1.145	0.949	0.890	1902	1947	6.64e6	7.05e6	3489.6	YES	NO	bb	bb	108.898
2378-TCDD	26.238	1.001	5.852e4	7.255e4	0.982	0.807	0.770	770	775	9.16e5	1.16e6	1188.5	YES	NO	bb	bb	10.362
12378-PeCDD	31.362	1.001	3.433e5	2.119e5	1.029	1.620	1.550	1425	835	5.42e6	3.36e6	3805.3	YES	NO	bb	bb	54.766
123478-HxCDD	35.981	1.001	3.147e5	2.515e5	0.921	1.251	1.240	1683	1683	5.22e6	4.22e6	3103.8	YES	NO	bd	bd	52.260
123678-HxCDD	36.092	1.001	3.233e5	2.620e5	0.904	1.234	1.240	1683	1683	5.48e6	4.40e6	3253.4	YES	NO	db	db	51.240
123789-HxCDD	36.448	1.010	3.340e5	2.650e5	0.918	1.260	1.240	1683	1683	5.81e6	4.67e6	3449.4	YES	NO	bd	bb	53.490
1234678-HpCDD	40.021	1.000	2.596e5	2.474e5	1.046	1.049	1.050	2115	2386	4.16e6	3.98e6	1968.6	YES	NO	bb	bb	53.465
OCDD	44.696	1.000	4.498e5	5.068e5	0.984	0.888	0.890	2080	1780	5.68e6	6.35e6	2731.8	YES	NO	bb	bb	107.260
13C-2378-TCDF	25.588	1.007	9.820e5	1.242e6	1.847	0.791	0.770	4437	1932	1.56e7	1.98e7	3520.5	YES	NO	bb	bb	106.771
13C-12378-PeCDF	29.736	1.170	1.153e6	7.348e5	1.558	1.568	1.550	2082	1871	1.78e7	1.16e7	8535.8	YES	NO	bb	bb	107.415
13C-23478-PeCDF	31.094	1.224	1.141e6	7.233e5	1.544	1.578	1.550	2082	1871	1.74e7	1.11e7	8361.7	YES	NO	bb	bb	107.076
13C-123478-HxCDF	34.779	0.954	4.438e5	8.924e5	1.152	0.497	0.510	2273	1038	6.75e6	1.35e7	2971.8	YES	NO	bd	bd	100.390
13C-123678-HxCDF	34.924	0.958	4.870e5	9.707e5	1.225	0.502	0.510	2273	1038	7.50e6	1.48e7	3301.0	YES	NO	db	db	103.019
13C-234678-HxCDF	35.847	0.984	4.322e5	8.618e5	1.104	0.502	0.510	2273	1038	7.20e6	1.42e7	3167.0	YES	NO	bb	bb	101.513
13C-123789-HxCDF	36.805	1.010	4.067e5	8.108e5	1.046	0.502	0.510	2273	1038	7.41e6	1.47e7	3261.2	YES	NO	bb	bb	100.813
13C-1234678-HpCDF	38.530	1.057	3.905e5	9.164e5	1.004	0.426	0.440	1617	2475	6.73e6	1.56e7	4158.7	YES	NO	bb	bb	112.659
13C-1234789-HpCDF	40.745	1.118	3.157e5	7.227e5	0.799	0.437	0.440	1617	2475	4.75e6	1.09e7	2934.6	YES	NO	bb	bb	112.568
13C-1234-TCDD	25.407	0.000	4.911e5	6.370e5	1.000	0.771	0.770	1254	1002	7.93e6	1.03e7	6320.5	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.223	1.032	5.608e5	7.274e5	1.171	0.771	0.770	1254	1002	8.89e6	1.14e7	7087.2	YES	NO	bb	bb	97.513
13C-12378-PeCDD	31.339	1.234	6.168e5	3.687e5	0.886	1.673	1.550	1303	470	9.76e6	6.01e6	7493.5	YES	NO	bb	bb	98.604
13C-123478-HxCDD	35.959	0.987	6.566e5	5.199e5	1.027	1.263	1.240	1420	1289	1.13e7	8.99e6	7993.6	YES	NO	bd	bd	99.200
13C-123678-HxCDD	36.070	0.990	7.016e5	5.620e5	1.055	1.248	1.240	1420	1289	1.18e7	9.45e6	8291.5	YES	NO	db	db	103.690
13C-1234678-HpCDD	40.010	1.098	4.727e5	4.333e5	0.749	1.091	1.050	1330	1929	7.51e6	6.90e6	5645.2	YES	NO	bb	bb	104.737
13C-OCDD	44.687	1.226	8.742e5	9.389e5	0.725	0.931	0.890	1176	2470	1.07e7	1.15e7	9107.0	YES	NO	bb	bb	216.602
13C-123789-HxCDD	36.437	0.000	6.462e5	5.087e5	1.000	1.270	1.240	1420	1289	1.15e7	9.07e6	8114.3	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.238	1.033	1.269e5		1.121			763		1.99e6		2614.4	YES		bb		10.036

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

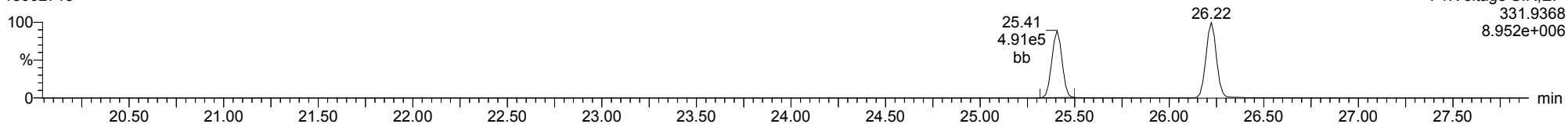
Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1368-TCDF	22.083	0.863	1.009e5	1.307e5	1.020	0.772	0.770	768	1045	1.61e6	2.10e6	2092.6	YES	NO	bb	bb	10.206
1289-TCDF	27.099	1.059	7.930e4	1.035e5	0.818	0.766	0.770	768	1045	1.25e6	1.64e6	1632.8	YES	NO	db	db	10.046
13468-PECDF	26.948	0.906	6.123e5	3.932e5	1.163	1.557	1.550	424	633	9.70e6	6.20e6	22869.5	YES	NO	bb	bb	45.802
12389-PECDF	32.141	1.081	5.562e5	3.291e5	0.912	1.690	1.550	2346	2387	8.49e6	5.00e6	3618.3	YES	NO	bb	bb	51.405
123468-HXCDF	33.065	0.951	3.829e5	3.028e5	1.051	1.264	1.240	1993	1770	6.00e6	4.76e6	3013.6	YES	NO	bb	bb	48.810
1368-TCDD	23.367	0.891	6.067e4	7.641e4	1.026	0.794	0.770	770	775	1.03e6	1.31e6	1337.1	YES	NO	bb	bb	10.369
1289-TCDD	26.842	1.024	5.620e4	7.004e4	0.938	0.802	0.770	770	775	8.85e5	1.10e6	1148.9	YES	NO	bb	bb	10.448
12479-PECDD	28.623	0.913	5.870e5	3.615e5	1.807	1.624	1.550	1425	835	5.75e6	3.52e6	4033.3	YES	NO	bb	bb	53.260
12389-PECDD	31.751	1.013	4.228e5	2.642e5	1.326	1.600	1.550	1425	835	6.54e6	4.12e6	4591.9	YES	NO	bb	bd	52.572
124679-HXCDD	33.855	0.941	3.409e5	2.705e5	1.031	1.260	1.240	1683	1683	5.42e6	4.33e6	3220.6	YES	NO	bb	bb	50.381
1234679-HPCDD	38.998	0.975	2.958e5	2.766e5	1.228	1.069	1.050	2115	2386	4.93e6	4.68e6	2330.8	YES	NO	bb	bb	51.446
Total-tetrafurans			2.664e5		0.891			768		4.28e6							31.072
Total-penta1			6.123e5					424		9.70e6							45.802
Total-pentafurans			1.778e6		0.903			2346		2.79e7							167.114
Total-hexafurans			1.860e6		0.972			1993		3.02e7							258.584
Total-heptafurans			7.055e5		1.141			1717		1.15e7							103.236
Total-Furans			5.772e6		0.989			768		9.02e7							714.722
Total-tetradoxins			3.027e5		0.982			770		4.37e6							53.817
Total-pentadoxins			1.355e6		1.387			1425		1.77e7							160.839
Total-hexadoxins			1.315e6		0.944			1683		2.19e7							207.663
Total-heptadoxins			5.557e5		1.137			2115		9.10e6							104.959
Total-Dioxins			3.978e6		1.088			770		5.88e7							634.539
Total-TEQ			9.751e6					770		1.49e8							1349.260
FUNCTION1 PFK			5.261e6					311082		3.89e7							
FUNCTION2 PFK			2.476e5					279714		8.14e6							0.000
FUNCTION3 PFK			1.773e5					270037		4.89e6							0.000
FUNCTION4 PFK			2.319e5					206831		5.64e6							
FUNCTION5 PFK			4.778e3					140840		2.39e5							
FUNCTION1 HXCD...			0.000e0					220		0.00e0							
FUNCTION1 HPCD...			1.475e2					434		3.91e3							0.000
FUNCTION2 HPCD...			4.036e2					585		6.71e3							0.000
FUNCTION3 OCDPE			0.000e0					192		0.00e0							
FUNCTION4 NCDPE			0.000e0					261		0.00e0							
FUNCTION5 DCDPE			0.000e0					204		0.00e0							

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Calibration: T:\Autospec\Curves\180820ICIH.cdb 21 Aug 2018 11:13:54

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

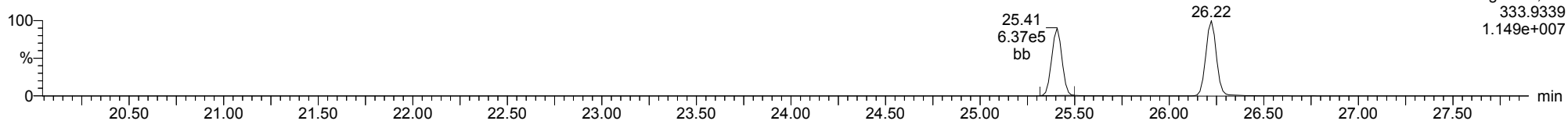
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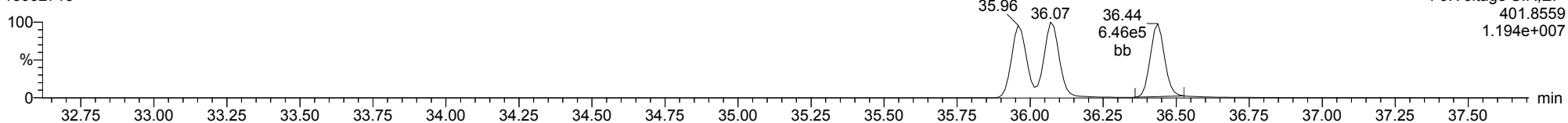
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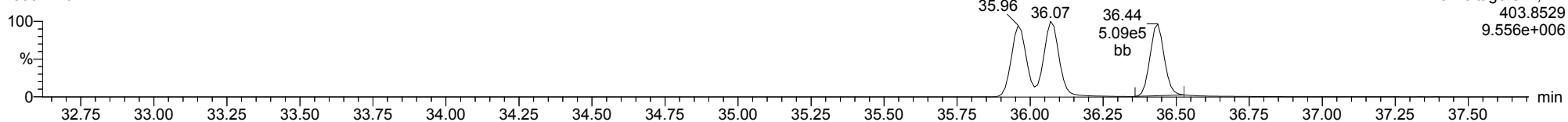
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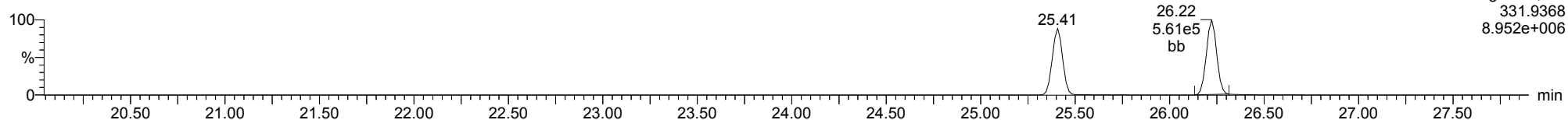
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ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

13C-2378-TCDD

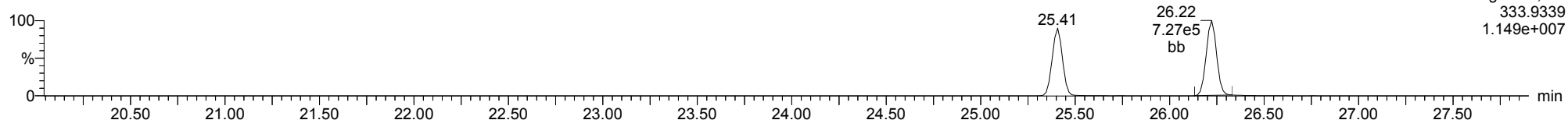
18092713



F1:Voltage SIR,EI+
331.9368
8.952e+006

13C-2378-TCDD

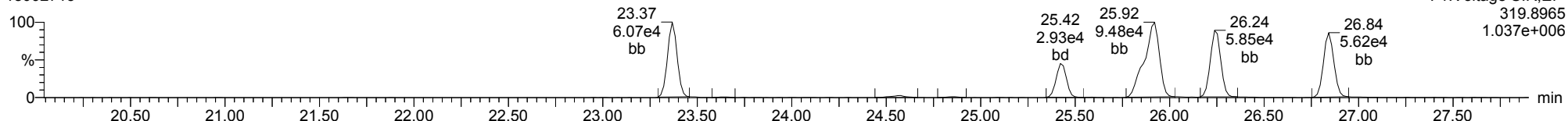
18092713



F1:Voltage SIR,EI+
333.9339
1.149e+007

Total-tetradoxins

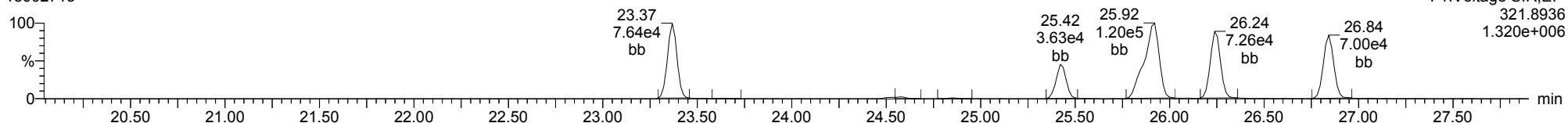
18092713



F1:Voltage SIR,EI+
319.8965
1.037e+006

Total-tetradoxins

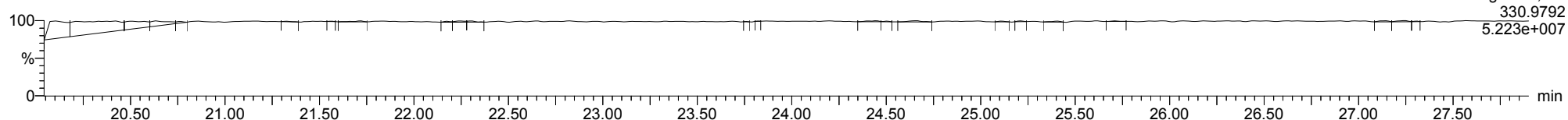
18092713



F1:Voltage SIR,EI+
321.8936
1.320e+006

FUNCTION1 PFK

18092713

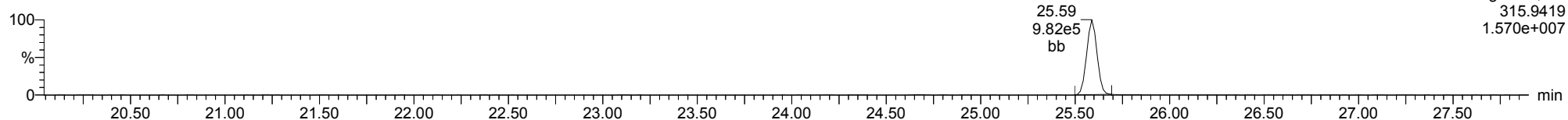


F1:Voltage SIR,EI+
330.9792
5.223e+007

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

13C-2378-TCDF

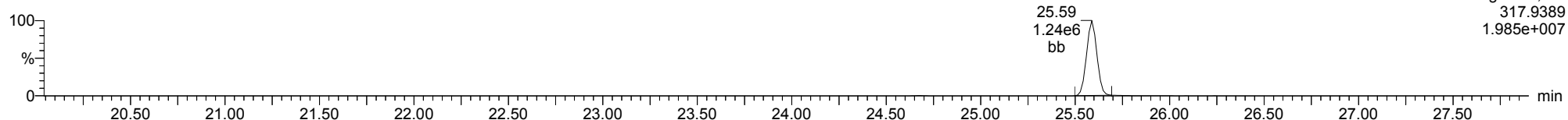
18092713



F1:Voltage SIR,EI+
315.9419
1.570e+007

13C-2378-TCDF

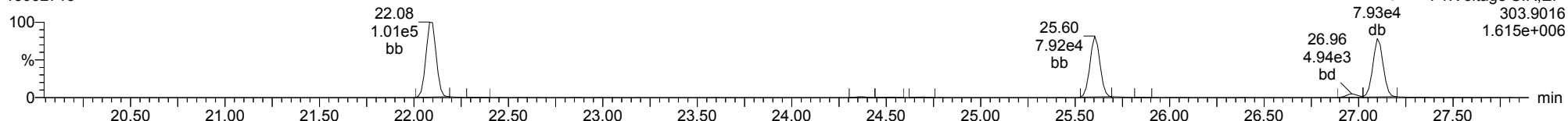
18092713



F1:Voltage SIR,EI+
317.9389
1.985e+007

Total-tetrafurans

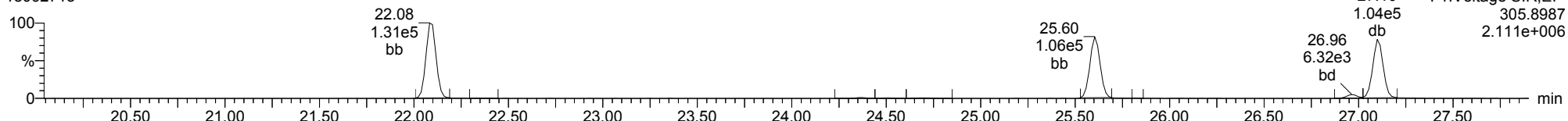
18092713



F1:Voltage SIR,EI+
303.9016
1.615e+006

Total-tetrafurans

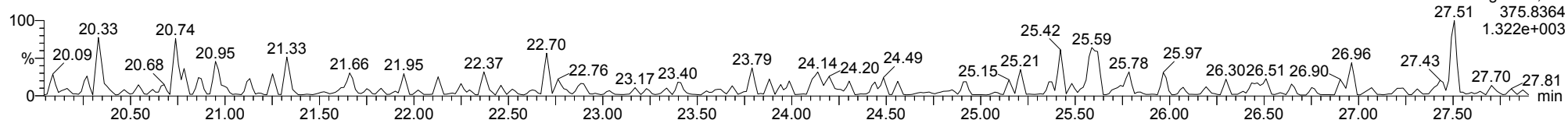
18092713



F1:Voltage SIR,EI+
305.8987
2.111e+006

FUNCTION1 HXCDPE

18092713

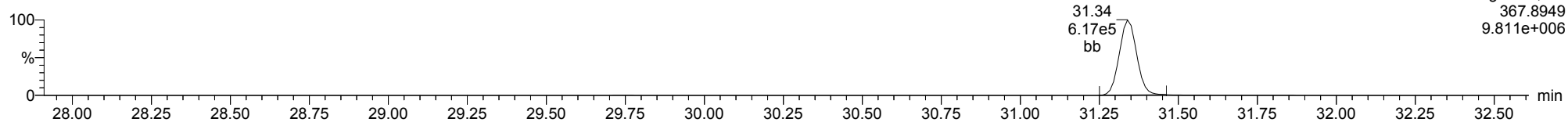


F1:Voltage SIR,EI+
375.8364
1.322e+003

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

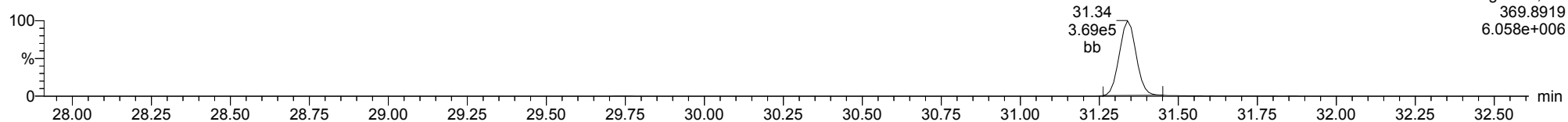
13C-12378-PeCDD

18092713



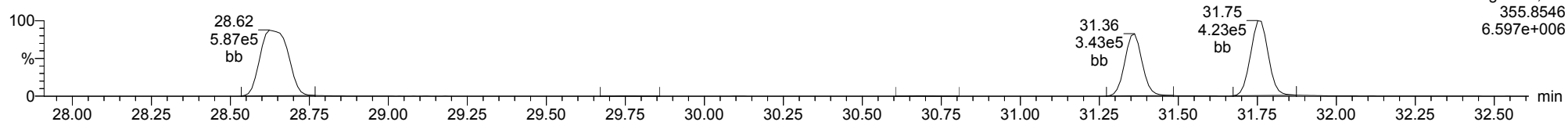
13C-12378-PeCDD

18092713



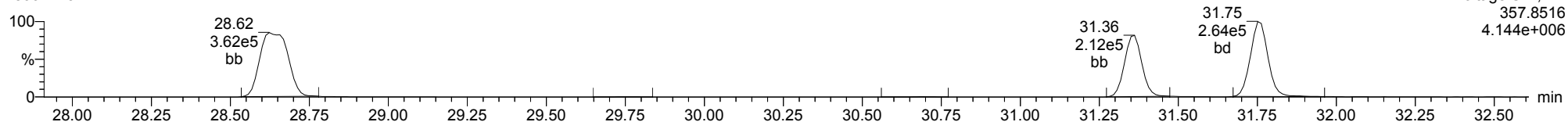
Total-pentadioxins

18092713



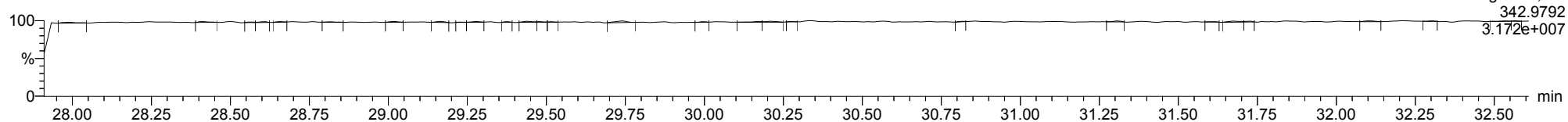
Total-pentadioxins

18092713



FUNCTION2 PFK

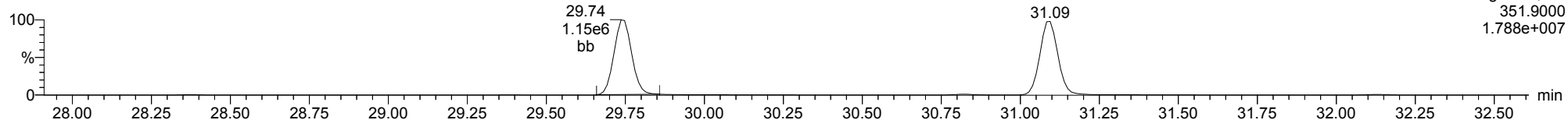
18092713



ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

13C-12378-PeCDF

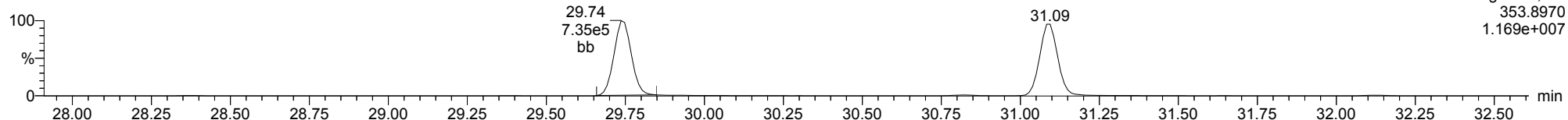
18092713



F2:Voltage SIR,EI+
351.9000
1.788e+007

13C-12378-PeCDF

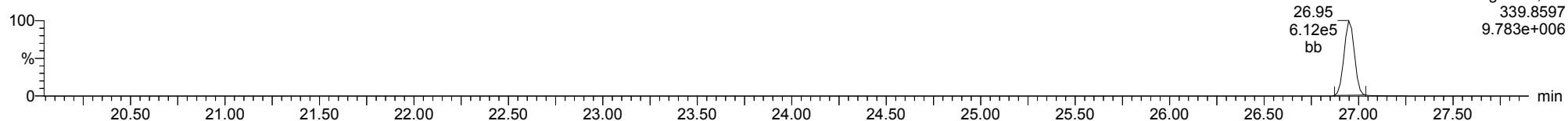
18092713



F2:Voltage SIR,EI+
353.8970
1.169e+007

Total-penta1

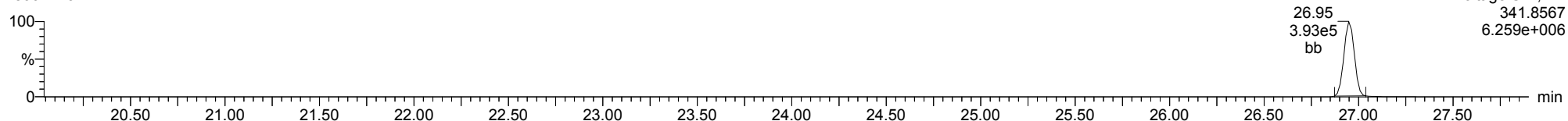
18092713



F1:Voltage SIR,EI+
339.8597
9.783e+006

Total-penta1

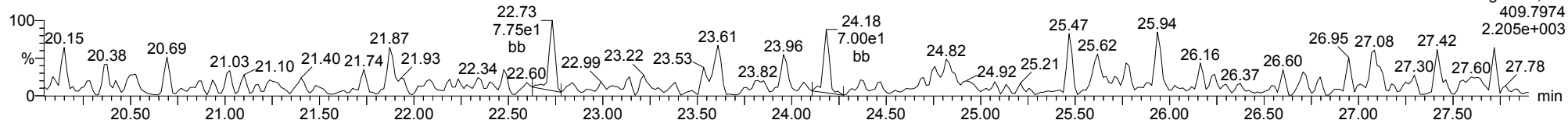
18092713



F1:Voltage SIR,EI+
341.8567
6.259e+006

FUNCTION1 HPCDPE

18092713

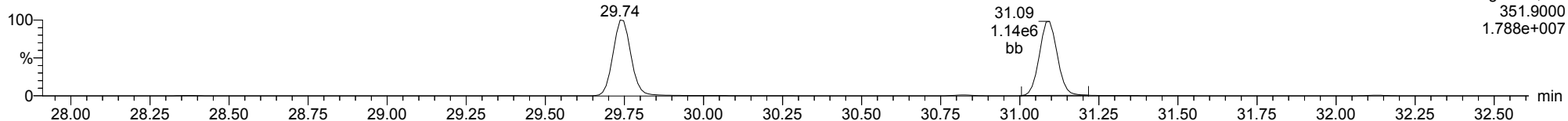


F1:Voltage SIR,EI+
409.7974
2.205e+003

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

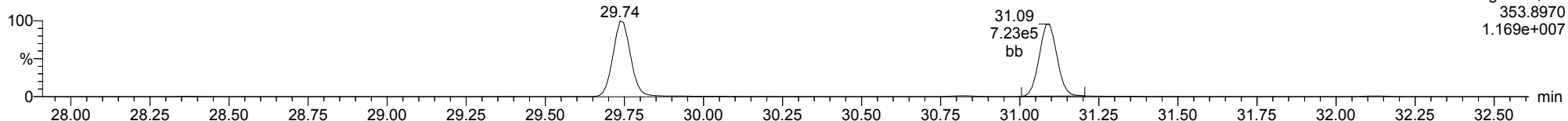
13C-23478-PeCDF

18092713



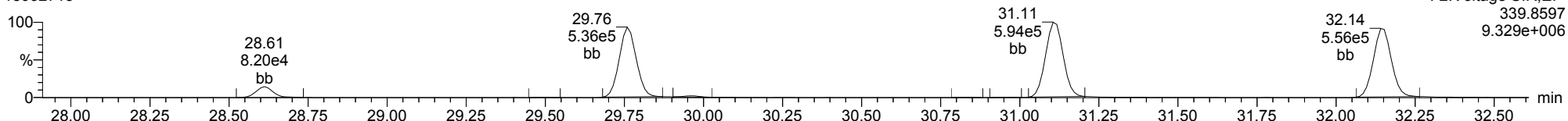
13C-23478-PeCDF

18092713



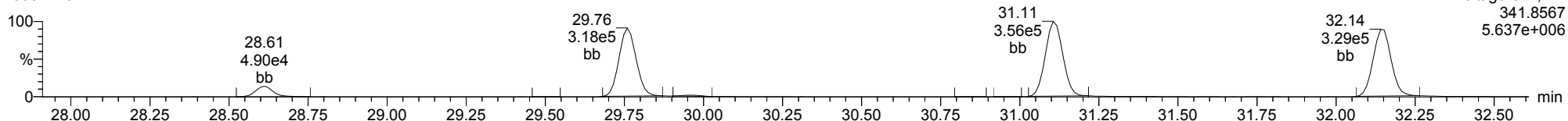
Total-pentafurans

18092713



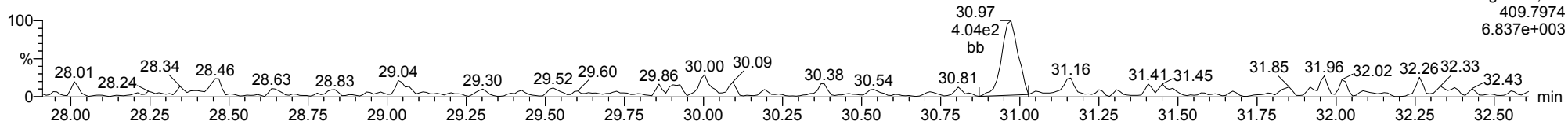
Total-pentafurans

18092713



FUNCTION2 HPCDPE

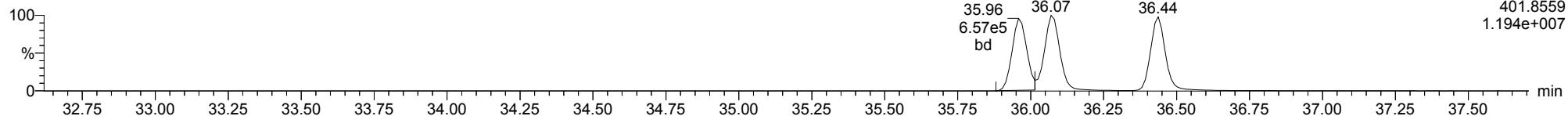
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ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

13C-123478-HxCDD

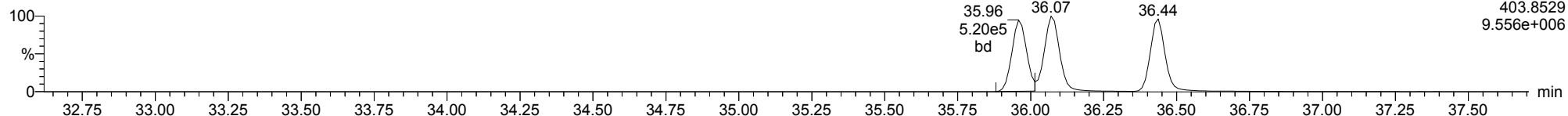
18092713



F3:Voltage SIR,EI+
401.8559
1.194e+007

13C-123478-HxCDD

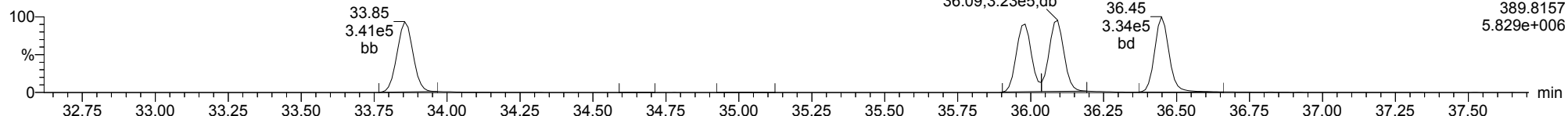
18092713



F3:Voltage SIR,EI+
403.8529
9.556e+006

Total-hexadioxins

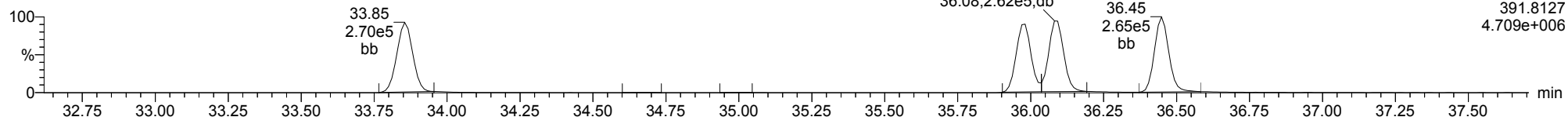
18092713



F3:Voltage SIR,EI+
389.8157
5.829e+006

Total-hexadioxins

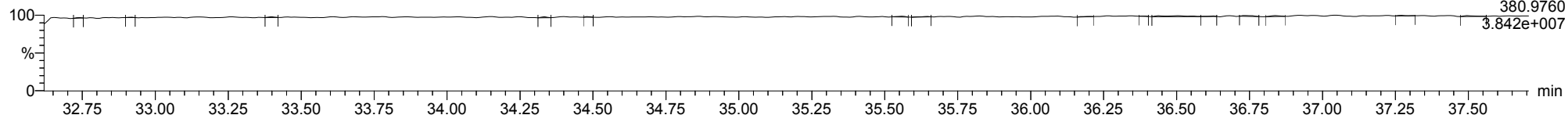
18092713



F3:Voltage SIR,EI+
391.8127
4.709e+006

FUNCTION3 PFK

18092713

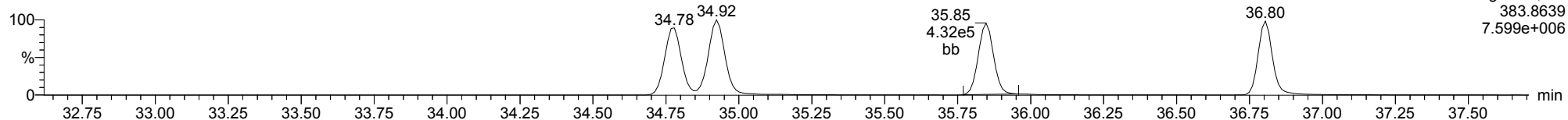


F3:Voltage SIR,EI+
380.9760
3.842e+007

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

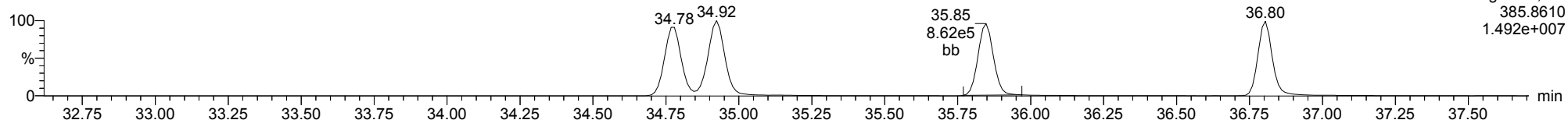
13C-234678-HxCDF

18092713



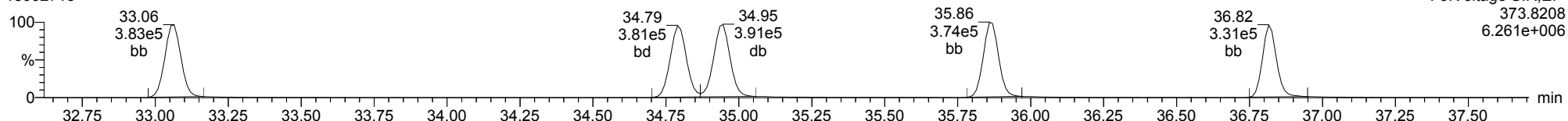
13C-234678-HxCDF

18092713



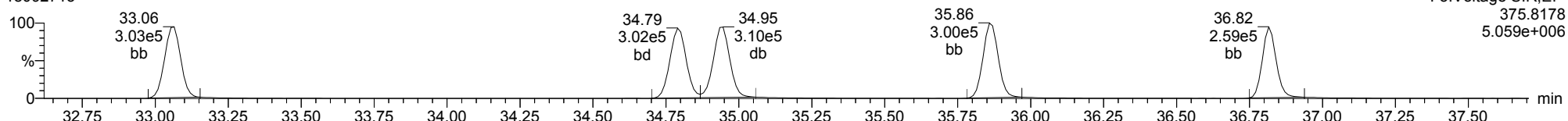
Total-hexafurans

18092713



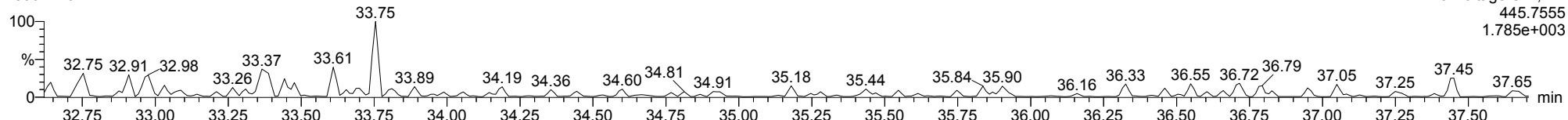
Total-hexafurans

18092713



FUNCTION3 OCDPE

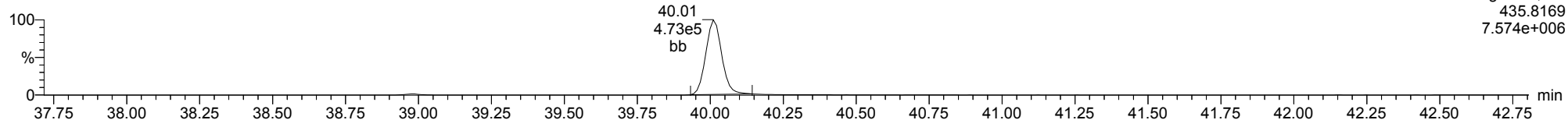
18092713



ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

13C-1234678-HpCDD

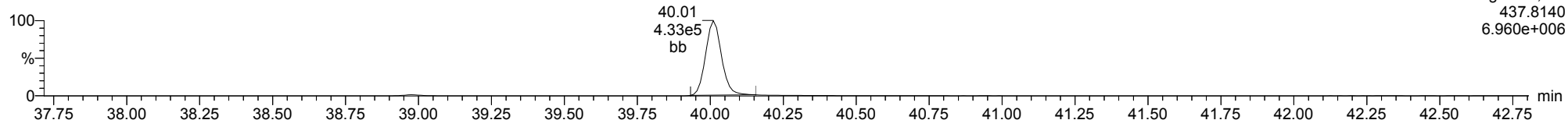
18092713



F4:Voltage SIR,EI+
435.8169
7.574e+006

13C-1234678-HpCDD

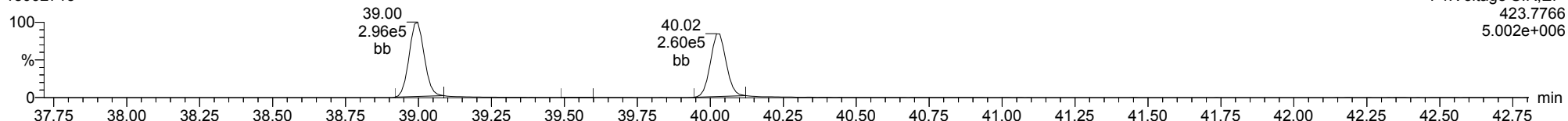
18092713



F4:Voltage SIR,EI+
437.8140
6.960e+006

Total-heptadioxins

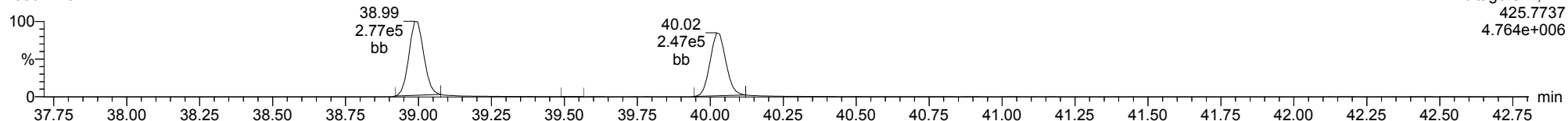
18092713



F4:Voltage SIR,EI+
423.7766
5.002e+006

Total-heptadioxins

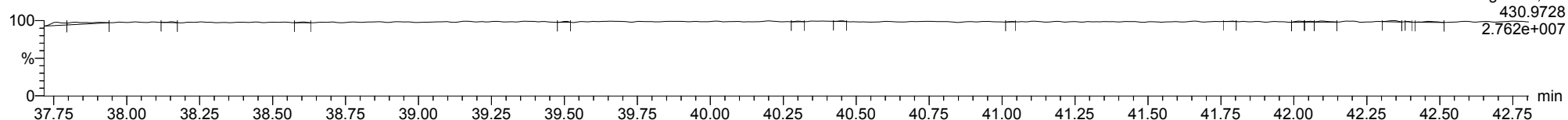
18092713



F4:Voltage SIR,EI+
425.7737
4.764e+006

FUNCTION4 PFK

18092713

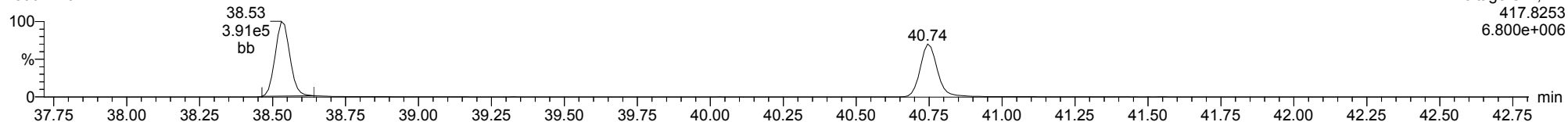


F4:Voltage SIR,EI+
430.9728
2.762e+007

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

13C-1234678-HpCDF

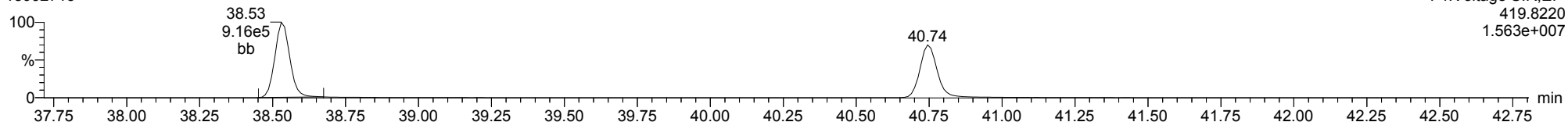
18092713



F4:Voltage SIR,EI+
417.8253
6.800e+006

13C-1234678-HpCDF

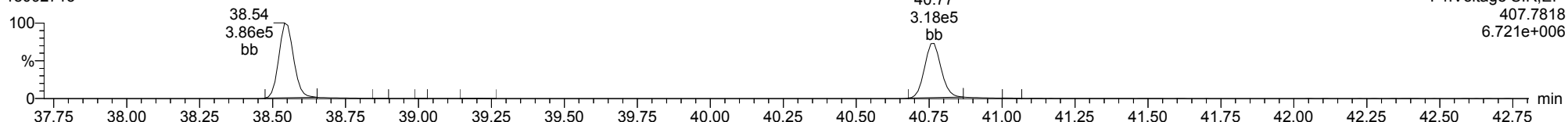
18092713



F4:Voltage SIR,EI+
419.8220
1.563e+007

Total-heptafurans

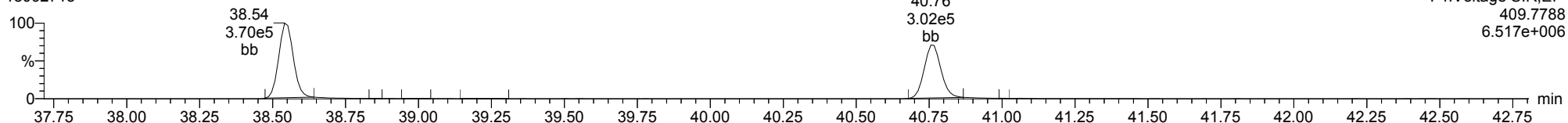
18092713



F4:Voltage SIR,EI+
407.7818
6.721e+006

Total-heptafurans

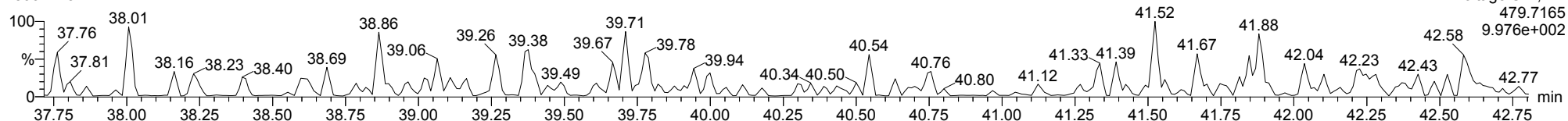
18092713



F4:Voltage SIR,EI+
409.7788
6.517e+006

FUNCTION4 NCDPE

18092713

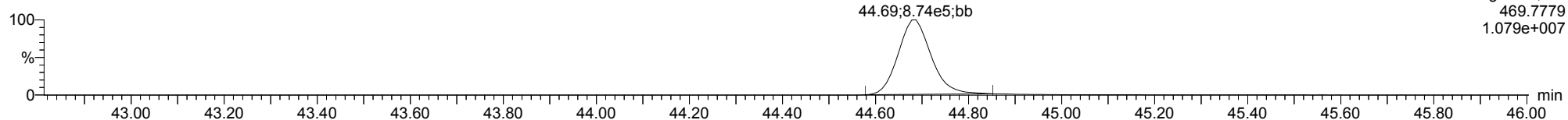


F4:Voltage SIR,EI+
479.7165
9.976e+002

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

13C-OCDD

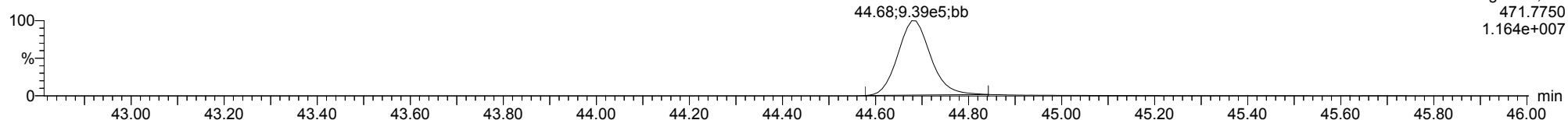
18092713



F5:Voltage SIR,EI+
469.7779
1.079e+007

13C-OCDD

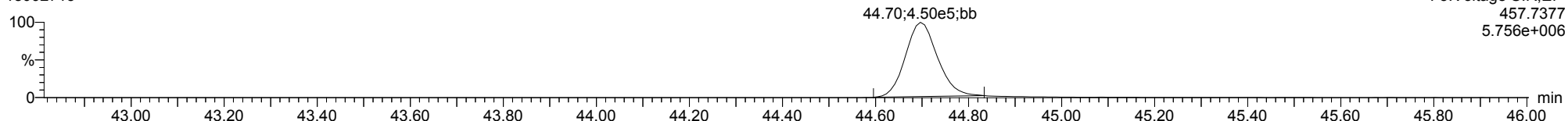
18092713



F5:Voltage SIR,EI+
471.7750
1.164e+007

OCDD

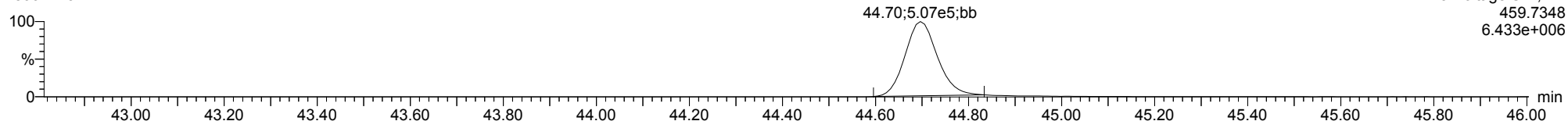
18092713



F5:Voltage SIR,EI+
457.7377
5.756e+006

OCDD

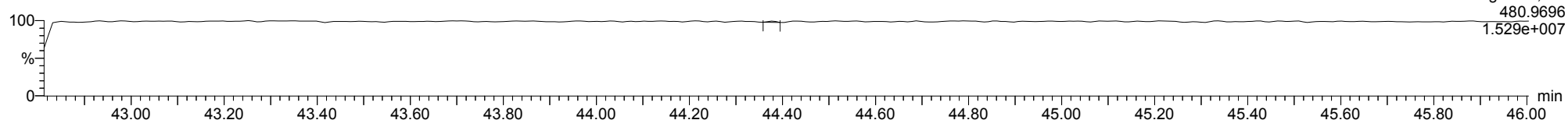
18092713



F5:Voltage SIR,EI+
459.7348
6.433e+006

FUNCTION5 PFK

18092713

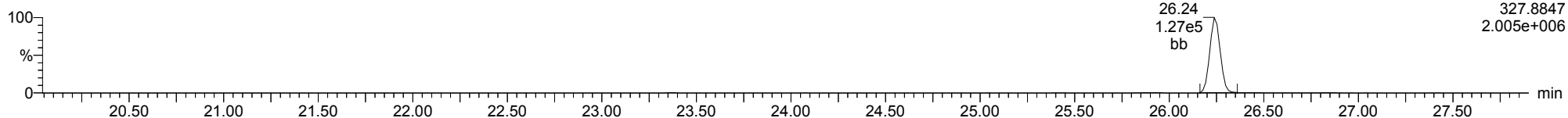


F5:Voltage SIR,EI+
480.9696
1.529e+007

ID: CS3T2, Name: 18092713, Date: 27-Sep-2018, Time: 23:32:03, Conditions: AUTOSPEC01, User: PK

37CL-2378-TCDD

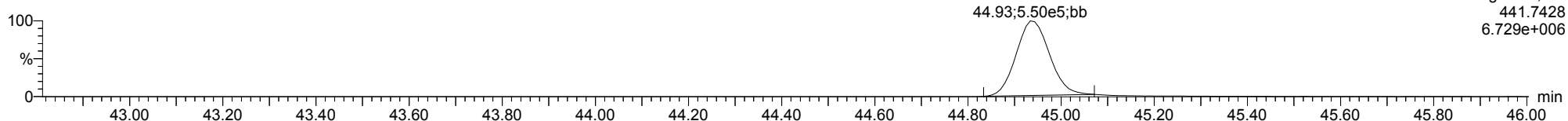
18092713



F1:Voltage SIR,EI+
327.8847
2.005e+006

OCDF

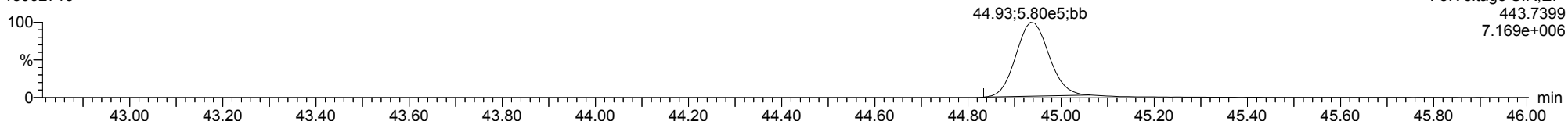
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F5:Voltage SIR,EI+
441.7428
6.729e+006

OCDF

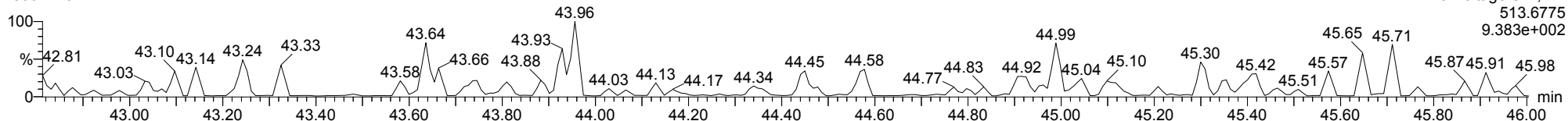
18092713



F5:Voltage SIR,EI+
443.7399
7.169e+006

FUNCTION5 DCDPE

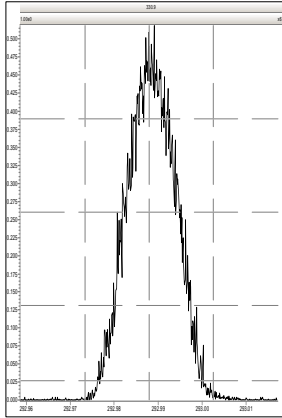
18092713



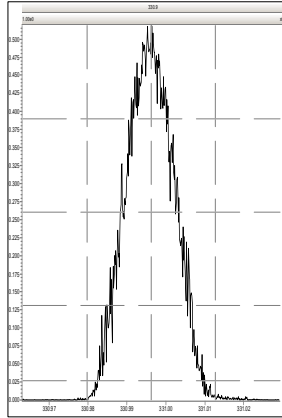
F5:Voltage SIR,EI+
513.6775
9.383e+002

Printed: Friday, September 28, 2018 00:25:18 Pacific Daylight Time

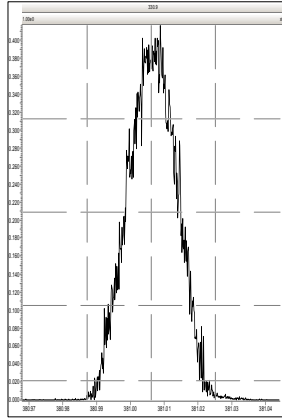
M 292.9824 R 12472



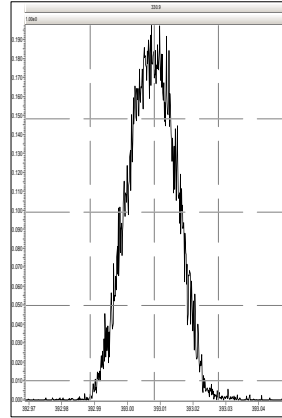
M 330.9792 R 12284



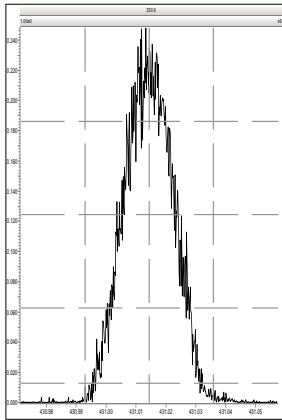
M 380.9760 R 12530



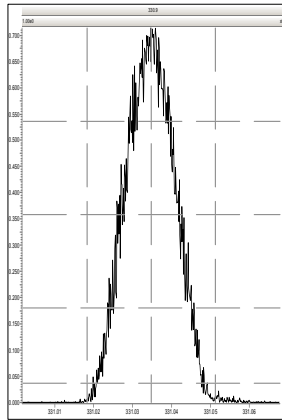
M 392.9760 R 12410



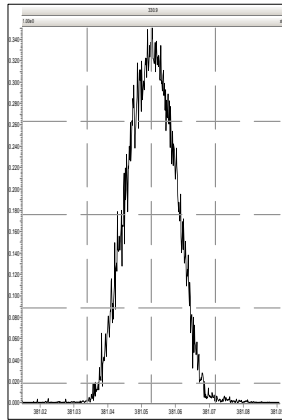
M 430.9728 R 12501



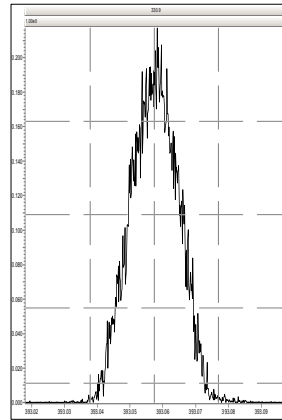
M 330.9792 R 12570



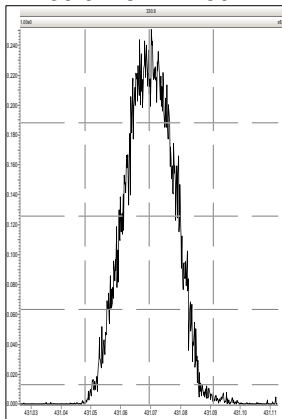
M 380.9760 R 12627



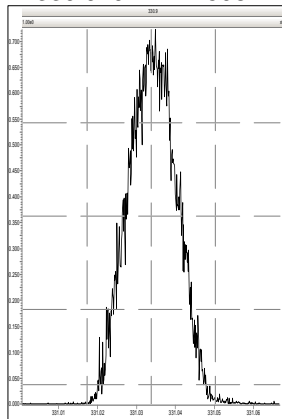
M 392.9760 R 12565



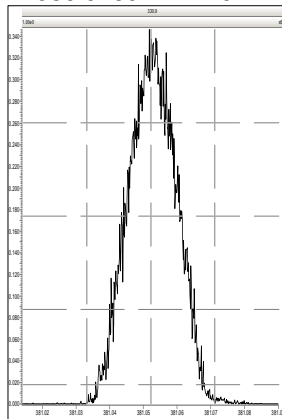
M 430.9728 R 12594



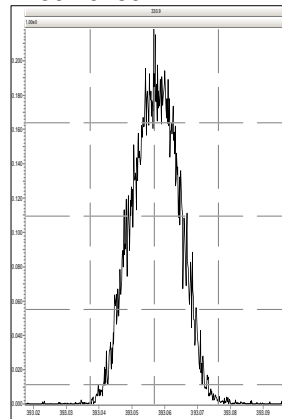
M 330.9792 R 12598



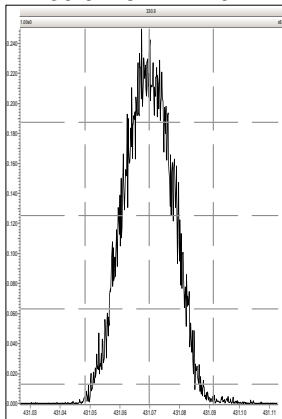
M 380.9760 R 12407



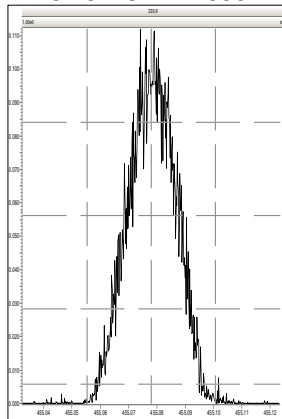
M 392.9760 R 12477



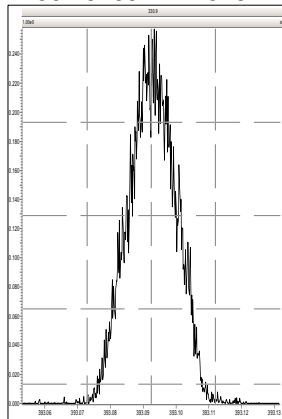
M 430.9728 R 12407



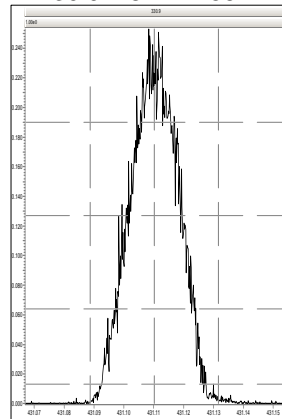
M 454.9728 R 12690



M 392.9760 R 12376

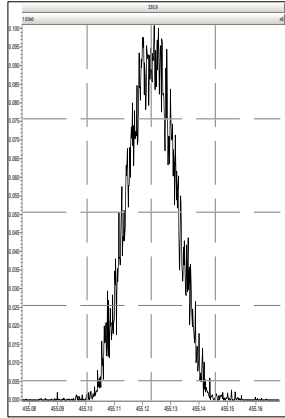


M 430.9728 R 12562

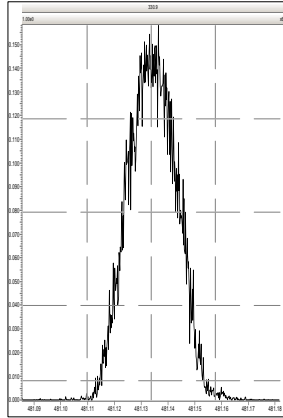


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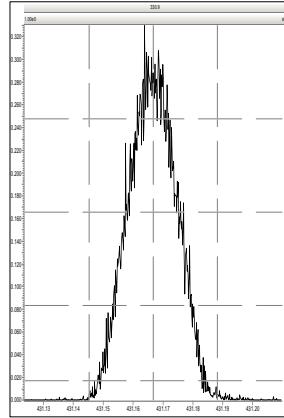
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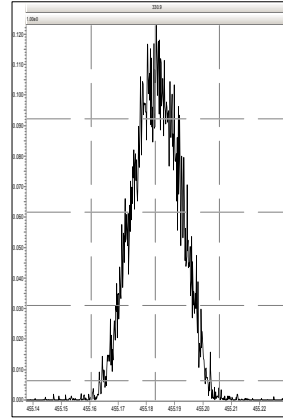
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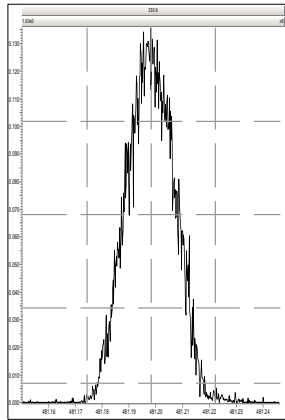
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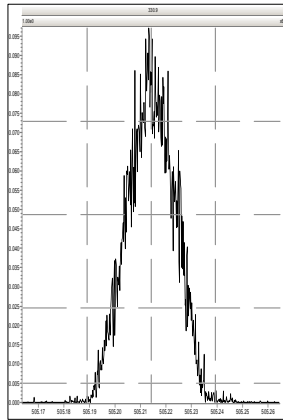
M 454.9728 R 12671



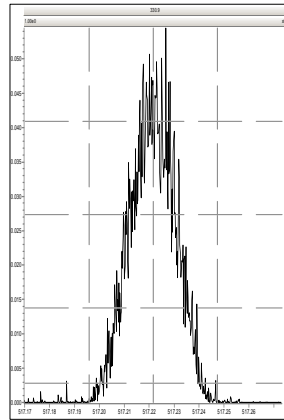
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M 504.9696 R 12416



M 516.9697 R 13484

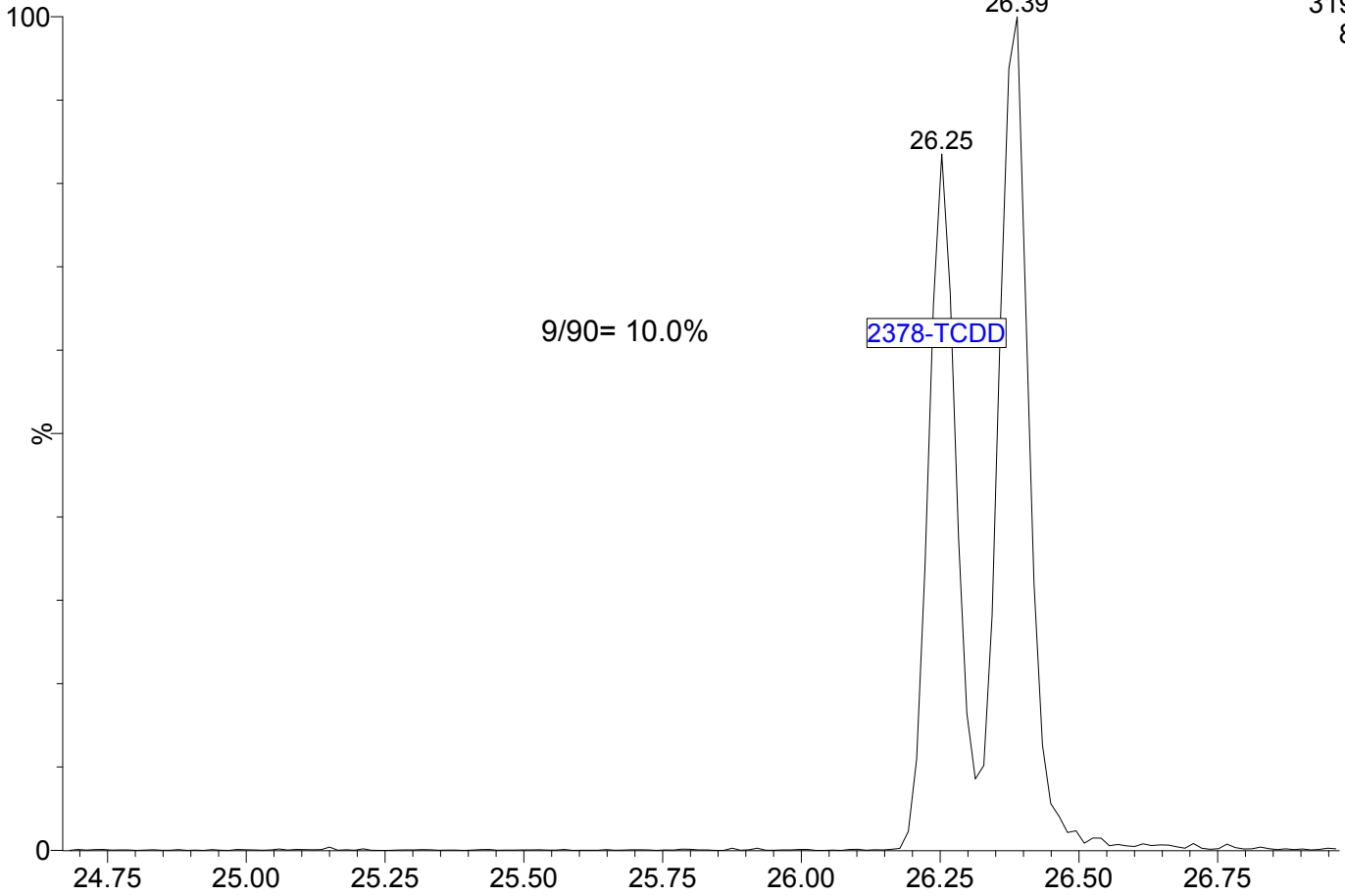


18092714

1: Voltage SIR 15 Channels EI+

319.8965

8.04e5

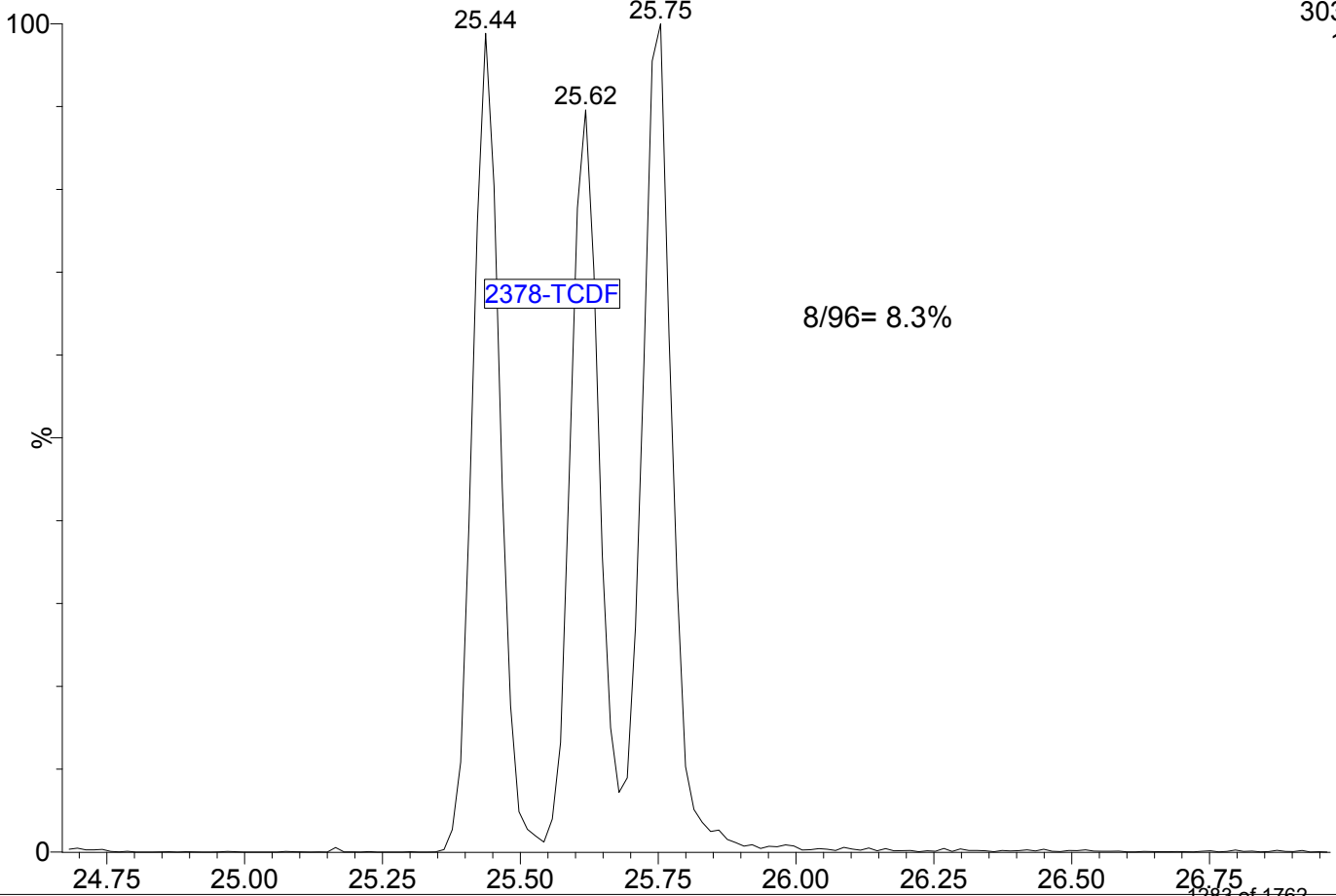


18092714

1: Voltage SIR 15 Channels EI+

303.9016

1.04e6





INITIAL CALIBRATION CHECK

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Instrument ID: AUTOSPEC01

Calibration: BH00060

Lab File ID: 18092702A

Calibration Date: 08/20/18 14:31

Sequence: SGI0436

Injection Date: 09/27/18

Lab Sample ID: SGI0436-ICV1

Injection Time: 14:38

Sequence Name: CS3T1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	10.2	0.8337180	0.8539555		2.4	16
2,3,7,8-TCDD	A	10.000	10.4	0.9819180	1.0188370		3.8	22
1,2,3,7,8-PeCDF	A	50.000	53.3	0.8522416	0.9092813		6.7	18
2,3,4,7,8-PeCDF	A	50.000	55.1	0.9441194	1.0402570		10.2	18
1,2,3,7,8-PeCDD	A	50.000	54.5	1.0287800	1.1221090		9.1	22
1,2,3,4,7,8-HxCDF	A	50.000	51.6	0.9632160	0.9946509		3.3	10
1,2,3,6,7,8-HxCDF	A	50.000	51.8	0.9172847	0.9505012		3.6	12
2,3,4,6,7,8-HxCDF	A	50.000	51.3	0.9906397	1.0161480		2.6	12
1,2,3,7,8,9-HxCDF	A	50.000	51.7	0.9375054	0.9686329		3.3	10
1,2,3,4,7,8-HxCDD	A	50.000	52.1	0.9208855	0.9602930		4.3	22
1,2,3,6,7,8-HxCDD	A	50.000	54.7	0.9039972	0.9886401		9.4	22
1,2,3,7,8,9-HxCDD	A	50.000	51.7	0.9178071	0.9491907		3.4	18
1,2,3,4,6,7,8-HpCDF	A	50.000	52.7	1.1193550	1.1796550		5.4	10
1,2,3,4,7,8,9-HpCDF	A	50.000	52.3	1.1620560	1.2150030		4.6	14
1,2,3,4,6,7,8-HpCDD	A	50.000	53.8	1.0464960	1.1252160		7.5	14
OCDF	A	100.00	113	1.1449950	1.2936270		13.0	37
OCDD	A	100.00	106	0.9837584	1.0384370		5.6	21
13C12-2,3,7,8-TCDF	A	100.00	111	1.8466610	4.1076363		11.2	29
13C12-2,3,7,8-TCDD	A	100.00	100	1.1711480	2.3482199		0.3	18
13C12-1,2,3,7,8-PeCDF	A	100.00	115	1.5576870	3.5723936		14.7	24
13C12-2,3,4,7,8-PeCDF	A	100.00	114	1.5436530	3.5276593		14.3	23
13C12-1,2,3,7,8-PeCDD	A	100.00	106	0.8859776	1.8752232		5.8	38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	105	1.1524190	2.4101949		4.6	24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	108	1.2251980	2.6412786		7.8	30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	105	1.1036650	2.3178331		5.0	27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	103	1.0456580	2.1553217		3.1	26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	103	1.0268910	2.1090165		2.7	15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	105	1.0551470	2.2095147		4.7	15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	120	1.0044640	2.4103521		20.0	22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	124	0.7987185	1.9875159		24.4	23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	112	0.7490178	1.6835897		12.4	18

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>BH00060</u>
Lab File ID:	<u>18092702A</u>	Calibration Date:	<u>08/20/18 14:31</u>
Sequence:	<u>SGI0436</u>	Injection Date:	<u>09/27/18</u>
Lab Sample ID:	<u>SGI0436-ICV1</u>	Injection Time:	<u>14:38</u>
Sequence Name:	<u>CS3T1</u>		

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-OCDD	A	200.00	248	0.7247910	1.7939951		23.8	52
37C14-2,3,7,8-TCDD	A	10.000	10.2	1.1205810	2.2828279		1.9	21

* Values outside of QC limits

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909
 Dataset: T:\Autospec\Processed Data Batch\180927OPIH.qld
 Last Altered: Friday, September 28, 2018 11:40:14 Pacific Daylight Time
 Printed: Friday, September 28, 2018 11:42:46 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
 Calibration: T:\Autospec\Curves\180820ICIH.cdb 21 Aug 2018 11:13:54

ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.618	1.001	7.639e4	1.049e5	0.834	0.728	0.770	742	1758	1.23e6	1.67e6	1653.8	YES	NO	bb	bb	10.243
12378-PeCDF	29.770	1.001	5.265e5	3.130e5	0.852	1.682	1.550	4438	2216	8.11e6	4.88e6	1826.7	YES	NO	bb	bb	53.346
23478-PeCDF	31.117	1.001	5.910e5	3.573e5	0.944	1.654	1.550	4438	2216	9.26e6	5.57e6	2086.1	YES	NO	bb	bb	55.091
123478-HxCDF	34.801	1.001	3.663e5	2.896e5	0.963	1.265	1.240	1581	2014	5.48e6	4.45e6	3466.5	YES	NO	bd	bd	51.632
234678-HxCDF	35.870	1.001	3.582e5	2.862e5	0.991	1.252	1.240	1581	2014	5.89e6	4.66e6	3728.4	YES	NO	bb	bb	51.287
123678-HxCDF	34.946	1.001	3.827e5	3.041e5	0.917	1.258	1.240	1581	2014	5.71e6	4.51e6	3609.8	YES	NO	db	db	51.811
123789-HxCDF	36.816	1.000	3.193e5	2.518e5	0.938	1.268	1.240	1581	2014	5.49e6	4.35e6	3471.9	YES	NO	bb	bb	51.660
1234678-HpCDF	38.552	1.000	3.964e5	3.816e5	1.119	1.039	1.050	2042	1836	6.80e6	6.48e6	3330.6	YES	NO	bb	bb	52.694
1234789-HpCDF	40.767	1.000	3.364e5	3.242e5	1.162	1.038	1.050	2042	1836	5.09e6	4.83e6	2492.3	YES	NO	bb	bb	52.278
OCDF	44.943	1.006	6.166e5	6.533e5	1.145	0.944	0.890	2008	3187	7.37e6	7.80e6	3672.2	YES	NO	bb	bb	112.981
2378-TCDD	26.253	1.001	5.654e4	6.711e4	0.982	0.842	0.770	1423	646	8.88e5	1.07e6	624.4	YES	NO	bb	bb	10.376
12378-PeCDD	31.361	1.000	3.382e5	2.055e5	1.029	1.646	1.550	2687	2040	5.32e6	3.27e6	1979.6	YES	NO	bb	bb	54.536
123478-HxCDD	35.981	1.000	3.074e5	2.467e5	0.921	1.246	1.240	1742	1892	5.36e6	4.27e6	3075.1	YES	NO	bd	bd	52.140
123678-HxCDD	36.092	1.000	3.265e5	2.711e5	0.904	1.205	1.240	1742	1892	5.48e6	4.41e6	3145.3	YES	NO	db	dd	54.682
123789-HxCDD	36.449	1.010	3.089e5	2.518e5	0.918	1.227	1.240	1742	1892	5.41e6	4.44e6	3105.4	YES	NO	bb	bb	51.709
1234678-HpCDD	40.033	1.001	2.658e5	2.525e5	1.046	1.053	1.050	2186	1822	4.24e6	4.04e6	1940.6	YES	NO	bb	bb	53.761
OCDD	44.696	1.000	4.732e5	5.462e5	0.984	0.866	0.890	1606	1619	6.01e6	6.91e6	3743.6	YES	NO	bb	bb	105.558
13C-2378-TCDF	25.603	1.007	9.396e5	1.183e6	1.847	0.794	0.770	6620	3099	1.48e7	1.83e7	2228.2	YES	NO	bb	bb	111.218
13C-12378-PeCDF	29.748	1.170	1.132e6	7.141e5	1.558	1.586	1.550	2893	2214	1.74e7	1.10e7	6008.5	YES	NO	bb	bb	114.670
13C-23478-PeCDF	31.094	1.223	1.110e6	7.135e5	1.544	1.555	1.550	2893	2214	1.73e7	1.12e7	5978.9	YES	NO	bb	bb	114.263
13C-123478-HxCDF	34.779	0.954	4.396e5	8.792e5	1.152	0.500	0.510	1479	1932	6.52e6	1.31e7	4407.5	YES	NO	bd	bd	104.571
13C-123678-HxCDF	34.924	0.958	4.787e5	9.666e5	1.225	0.495	0.510	1479	1932	6.95e6	1.43e7	4699.1	YES	NO	db	db	107.790
13C-234678-HxCDF	35.847	0.984	4.254e5	8.429e5	1.104	0.505	0.510	1479	1932	6.89e6	1.36e7	4658.7	YES	NO	bb	bb	105.006
13C-123789-HxCDF	36.805	1.010	3.975e5	7.818e5	1.046	0.508	0.510	1479	1932	7.01e6	1.38e7	4736.1	YES	NO	bb	bb	103.061
13C-1234678-HpCDF	38.541	1.058	4.012e5	9.176e5	1.004	0.437	0.440	2236	3255	6.68e6	1.51e7	2985.1	YES	NO	bb	bb	119.982
13C-1234789-HpCDF	40.756	1.119	3.381e5	7.494e5	0.799	0.451	0.440	2236	3255	4.81e6	1.09e7	2151.9	YES	NO	bd	bb	124.419
13C-1234-TCDD	25.422	0.000	4.535e5	5.802e5	1.000	0.782	0.770	1900	1175	7.15e6	9.11e6	3763.4	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.238	1.032	5.281e5	6.855e5	1.171	0.770	0.770	1900	1175	8.05e6	1.04e7	4238.0	YES	NO	bb	bb	100.253
13C-12378-PeCDD	31.350	1.233	6.063e5	3.630e5	0.886	1.670	1.550	1550	974	9.45e6	5.66e6	6099.3	YES	NO	bb	bb	105.828
13C-123478-HxCDD	35.970	0.987	6.489e5	5.051e5	1.027	1.285	1.240	1482	1639	1.08e7	8.39e6	7289.8	YES	NO	bd	bd	102.689
13C-123678-HxCDD	36.081	0.990	6.766e5	5.324e5	1.055	1.271	1.240	1482	1639	1.14e7	8.94e6	7701.3	YES	NO	db	db	104.702
13C-1234678-HpCDD	40.010	1.098	4.835e5	4.377e5	0.749	1.105	1.050	1562	1334	7.55e6	6.89e6	4829.5	YES	NO	bb	bb	112.386
13C-OCDD	44.687	1.226	9.412e5	1.022e6	0.725	0.921	0.890	2246	1446	1.15e7	1.25e7	5117.3	YES	NO	bb	bb	247.519
13C-123789-HxCDD	36.437	0.000	6.085e5	4.858e5	1.000	1.253	1.240	1482	1639	1.07e7	8.53e6	7246.2	YES	NO	bb	bb	100.000
37CL-2378-TCDD	26.253	1.033	1.180e5		1.121			1074		1.89e6		1757.8	YES		bb		10.186

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 Printed: Friday, September 28, 2018 11:42:46 Pacific Daylight Time

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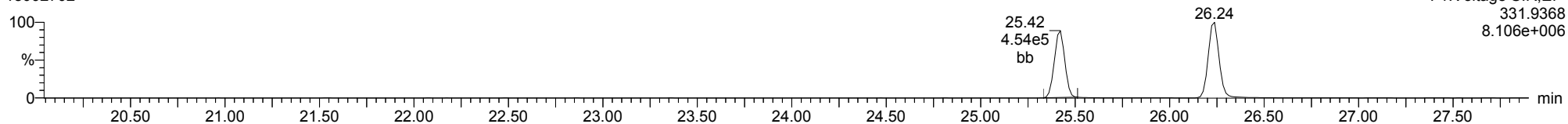
Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1368-TCDF	22.098	0.863	9.447e4	1.262e5	1.020	0.749	0.770	742	1758	1.53e6	2.07e6	2069.5	YES	NO	bb	bb	10.187
1289-TCDF	27.114	1.059	7.425e4	1.008e5	0.818	0.736	0.770	742	1758	1.14e6	1.54e6	1538.9	YES	NO	db	db	10.078
13468-PECDF	26.963	0.906	5.969e5	3.911e5	1.163	1.526	1.550	441	1078	9.37e6	6.11e6	21260.0	YES	NO	bb	bb	46.005
12389-PECDF	32.152	1.081	5.515e5	3.285e5	0.912	1.679	1.550	4438	2216	8.39e6	5.05e6	1890.9	YES	NO	bb	bb	52.232
123468-HXCDF	33.065	0.951	3.758e5	2.956e5	1.051	1.271	1.240	1581	2014	5.91e6	4.70e6	3736.5	YES	NO	bb	bb	48.420
1368-TCDD	23.382	0.891	5.647e4	7.382e4	1.026	0.765	0.770	1423	646	9.44e5	1.21e6	663.6	YES	NO	bb	bb	10.460
1289-TCDD	26.857	1.024	5.281e4	6.822e4	0.938	0.774	0.770	1423	646	8.14e5	1.02e6	572.0	YES	NO	bb	bb	10.633
12479-PECDD	28.635	0.913	5.729e5	3.518e5	1.807	1.628	1.550	2687	2040	5.53e6	3.44e6	2059.3	YES	NO	bb	bb	52.793
12389-PECDD	31.762	1.013	4.068e5	2.517e5	1.326	1.617	1.550	2687	2040	6.32e6	3.86e6	2353.6	YES	NO	bb	bb	51.235
124679-HXCDD	33.866	0.942	3.303e5	2.672e5	1.031	1.236	1.240	1742	1892	5.00e6	4.04e6	2871.8	YES	NO	bb	bb	50.200
1234679-HPCDD	38.998	0.975	3.026e5	2.842e5	1.228	1.065	1.050	2186	1822	5.14e6	4.84e6	2352.3	YES	NO	bb	bb	51.877
Total-tetrafurans			2.487e5		0.891			742		3.96e6							30.981
Total-penta1			5.969e5					441		9.37e6							46.005
Total-pentafurans			1.758e6		0.903			4438		2.72e7							169.163
Total-hexafurans			1.802e6		0.972			1581		2.85e7							254.810
Total-heptafurans			7.339e5		1.141			2042		1.19e7							105.125
Total-Furans			5.756e6		0.989			742		8.83e7							719.066
Total-tetradoxins			2.857e5		0.982			1423		4.10e6							54.221
Total-pentadoxins			1.319e6		1.387			2687		1.72e7							158.719
Total-hexadoxins			1.276e6		0.944			1742		2.13e7							209.279
Total-heptadoxins			5.684e5		1.137			2186		9.38e6							105.638
Total-Dioxins			3.923e6		1.088			1423		5.80e7							633.415
Total-TEQ			9.679e6					1423		1.46e8							1352.481
FUNCTION1 PFK			6.390e5					818554		1.57e7							
FUNCTION2 PFK			3.525e7					538730		2.11e8							0.000
FUNCTION3 PFK			6.647e5					688792		1.86e7							0.000
FUNCTION4 PFK			4.576e7					498890		3.38e8							
FUNCTION5 PFK			6.911e5					382771		2.27e7							
FUNCTION1 HXCD...			8.445e1					444		1.92e3							0.000
FUNCTION1 HPCD...			3.570e2					816		9.42e3							0.000
FUNCTION2 HPCD...			5.790e2					759		1.27e4							0.000
FUNCTION3 OCDPE			0.000e0					379		0.00e0							
FUNCTION4 NCDPE			0.000e0					505		0.00e0							
FUNCTION5 DCDPE			0.000e0					262		0.00e0							

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Calibration: T:\Autospec\Curves\180820ICIH.cdb 21 Aug 2018 11:13:54

ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

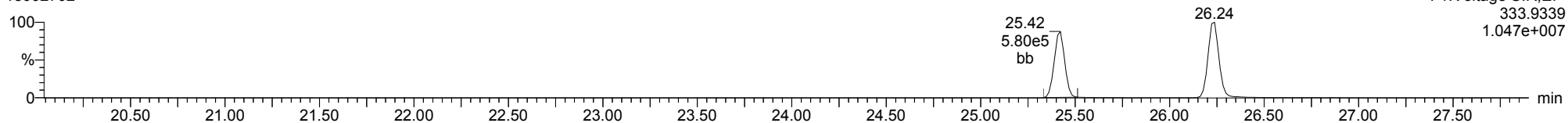
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18092702



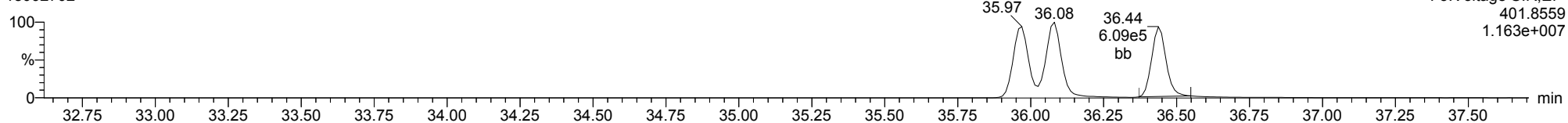
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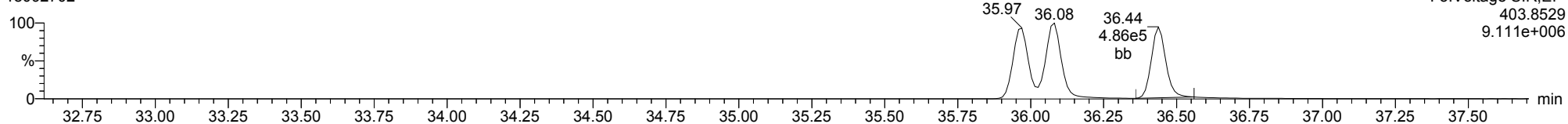
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18092702



13C-123789-HxCDD

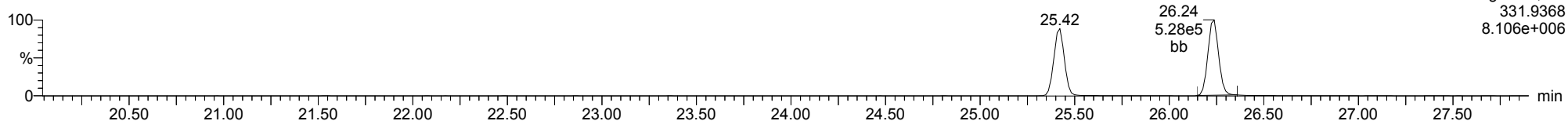
18092702



ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

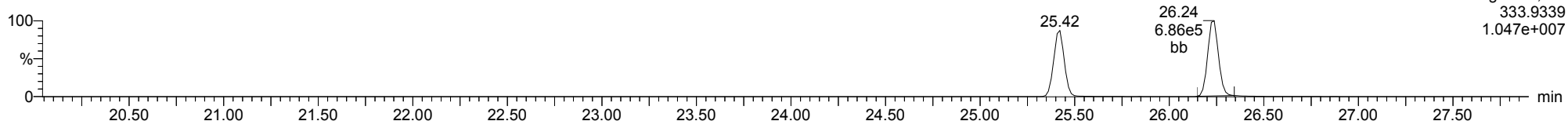
13C-2378-TCDD

18092702



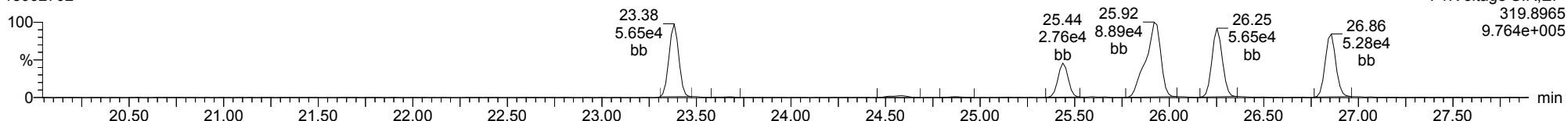
13C-2378-TCDD

18092702



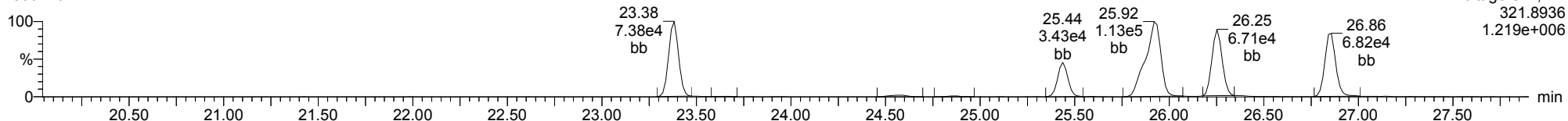
Total-tetradoxins

18092702



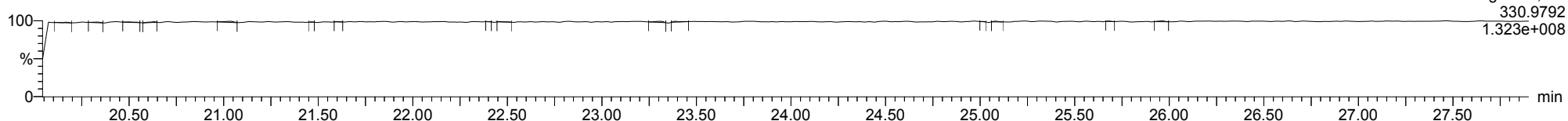
Total-tetradoxins

18092702



FUNCTION1 PFK

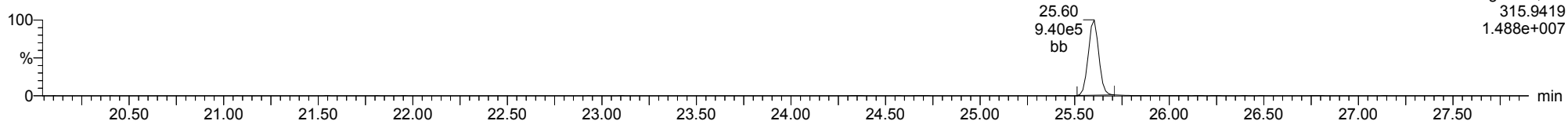
18092702



ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

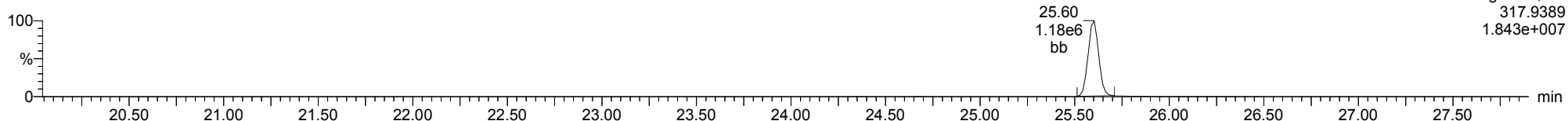
13C-2378-TCDF

18092702



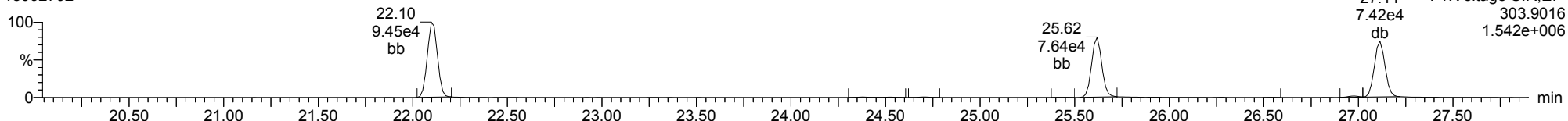
13C-2378-TCDF

18092702



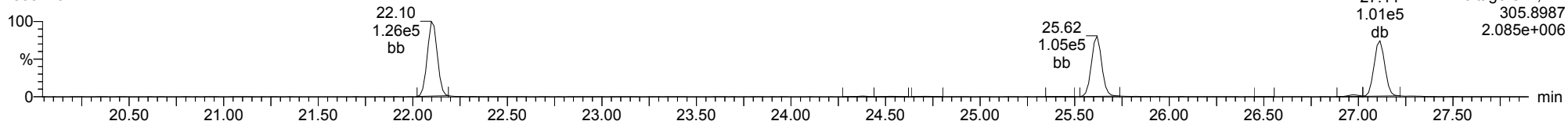
Total-tetrafurans

18092702



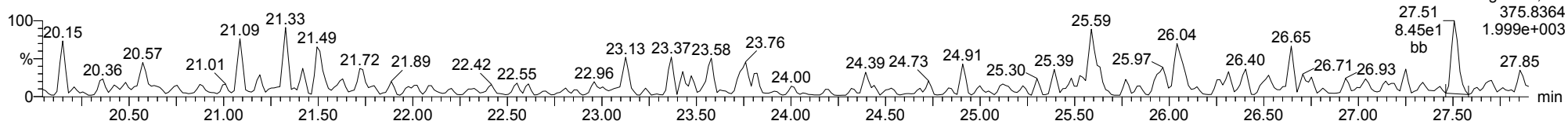
Total-tetrafurans

18092702



FUNCTION1 HXCDPE

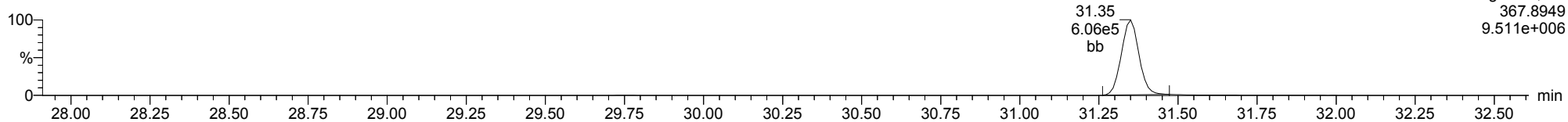
18092702



ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

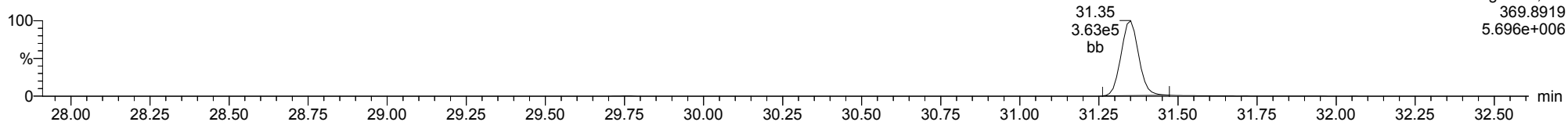
13C-12378-PeCDD

18092702



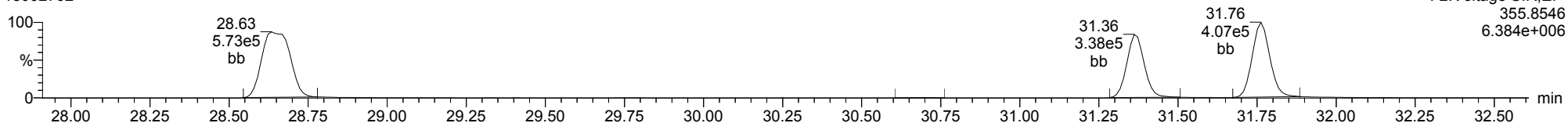
13C-12378-PeCDD

18092702



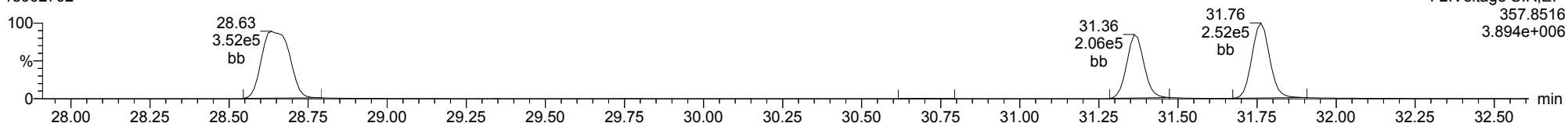
Total-pentadioxins

18092702



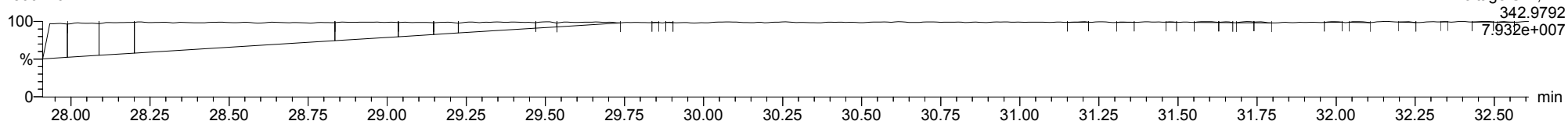
Total-pentadioxins

18092702



FUNCTION2 PFK

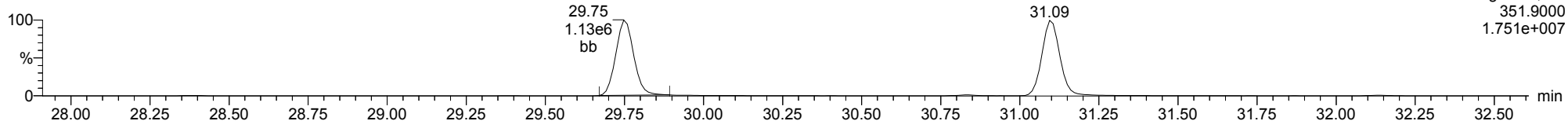
18092702



ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

13C-12378-PeCDF

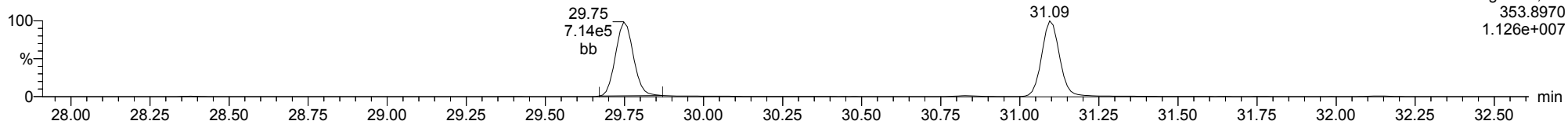
18092702



F2:Voltage SIR,EI+
351.9000
1.751e+007

13C-12378-PeCDF

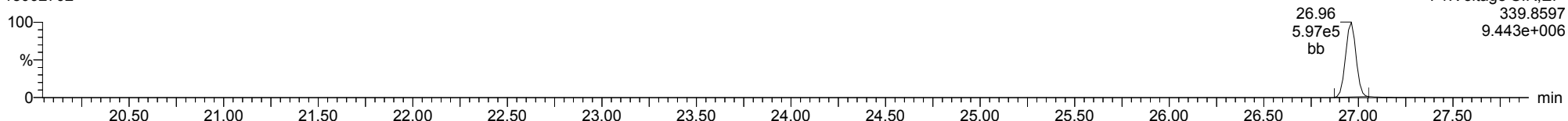
18092702



F2:Voltage SIR,EI+
353.8970
1.126e+007

Total-penta1

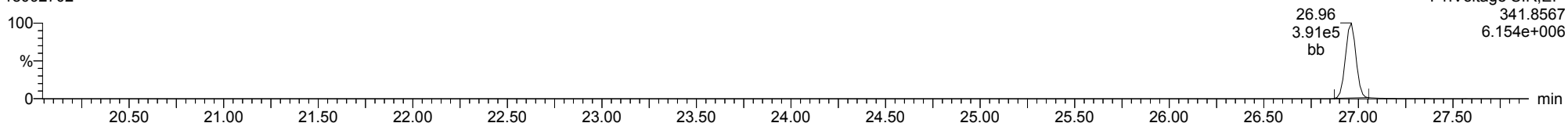
18092702



F1:Voltage SIR,EI+
339.8597
9.443e+006

Total-penta1

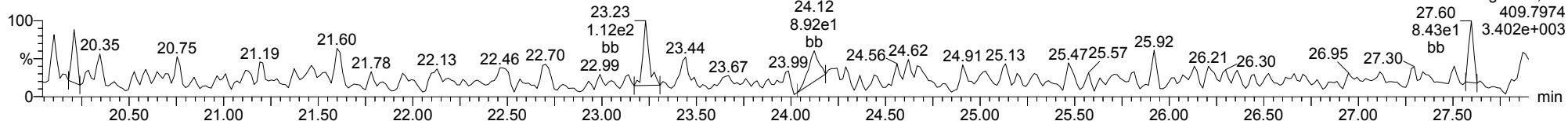
18092702



F1:Voltage SIR,EI+
341.8567
6.154e+006

FUNCTION1 HPCDPE

18092702

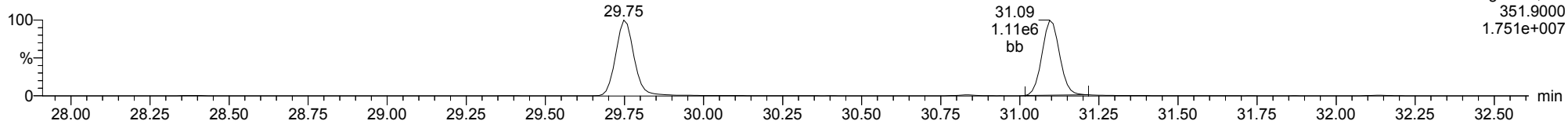


F1:Voltage SIR,EI+
409.7974
3.402e+003

ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

13C-23478-PeCDF

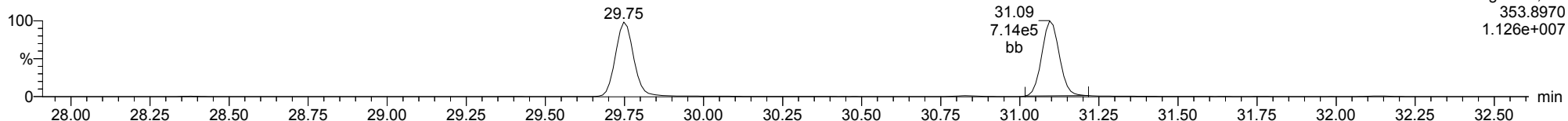
18092702



F2:Voltage SIR,EI+
351.9000
1.751e+007

13C-23478-PeCDF

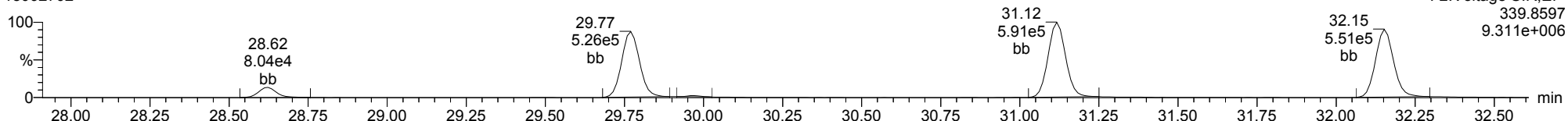
18092702



F2:Voltage SIR,EI+
353.8970
1.126e+007

Total-pentafurans

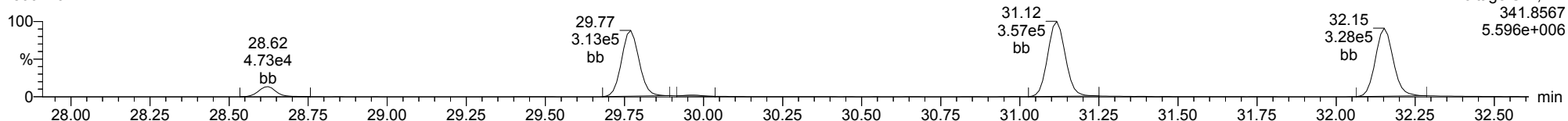
18092702



F2:Voltage SIR,EI+
339.8597
9.311e+006

Total-pentafurans

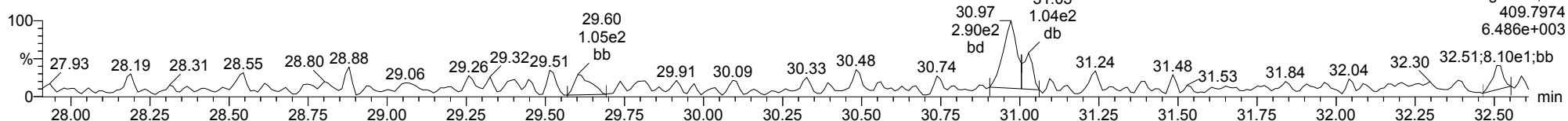
18092702



F2:Voltage SIR,EI+
341.8567
5.596e+006

FUNCTION2 HPCDPE

18092702

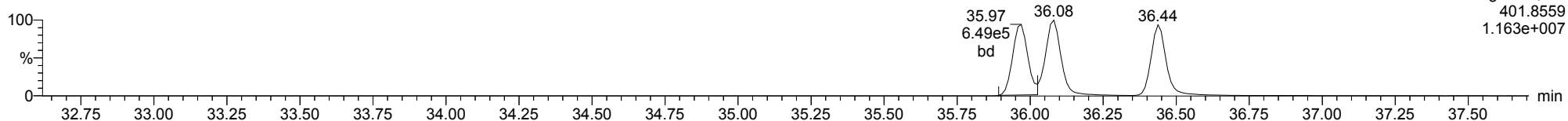


F2:Voltage SIR,EI+
409.7974
6.486e+003

ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

13C-123478-HxCDD

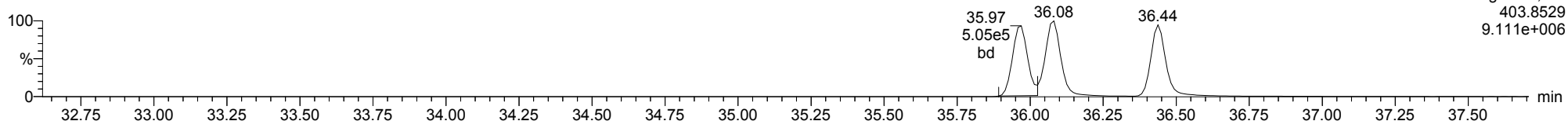
18092702



F3:Voltage SIR,EI+
401.8559
1.163e+007

13C-123478-HxCDD

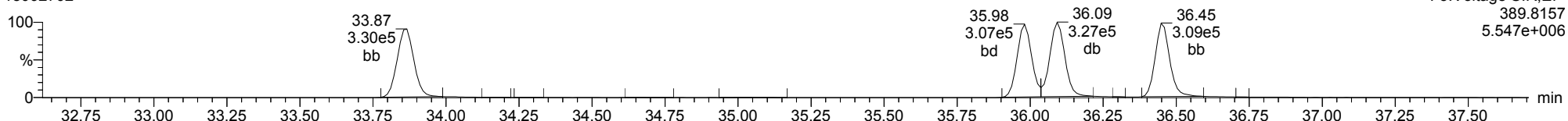
18092702



F3:Voltage SIR,EI+
403.8529
9.111e+006

Total-hexadioxins

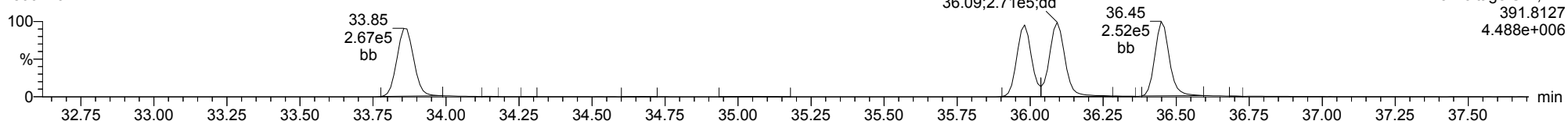
18092702



F3:Voltage SIR,EI+
389.8157
5.547e+006

Total-hexadioxins

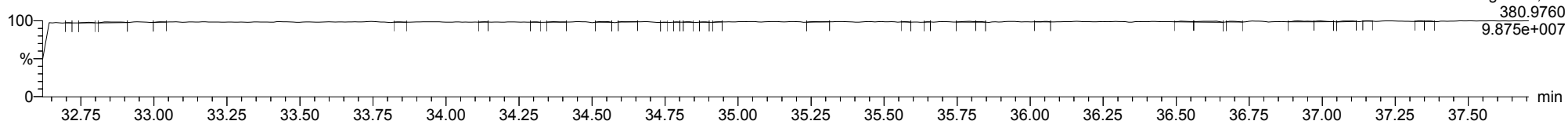
18092702



F3:Voltage SIR,EI+
391.8127
4.488e+006

FUNCTION3 PFK

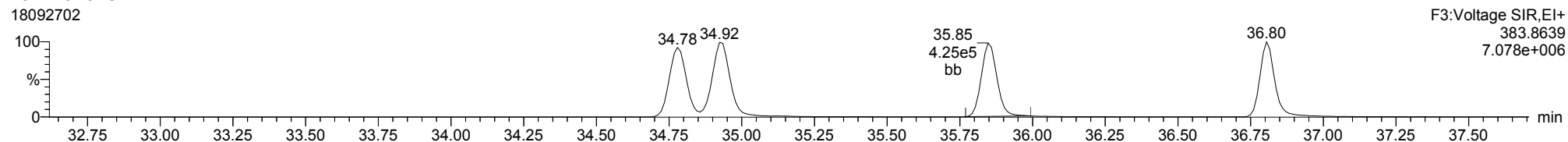
18092702



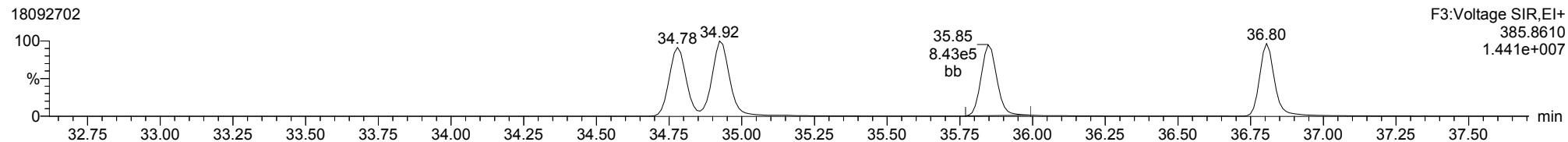
F3:Voltage SIR,EI+
380.9760
9.875e+007

ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

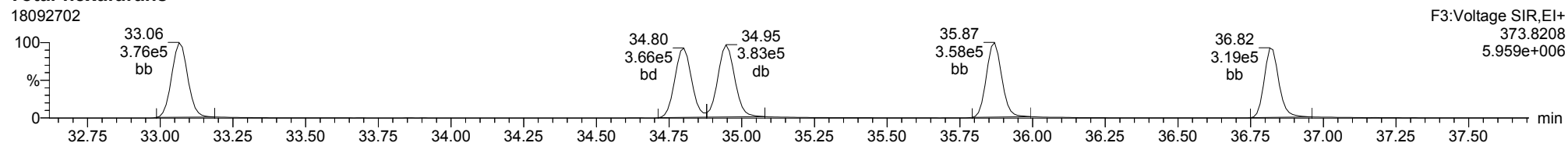
13C-234678-HxCDF



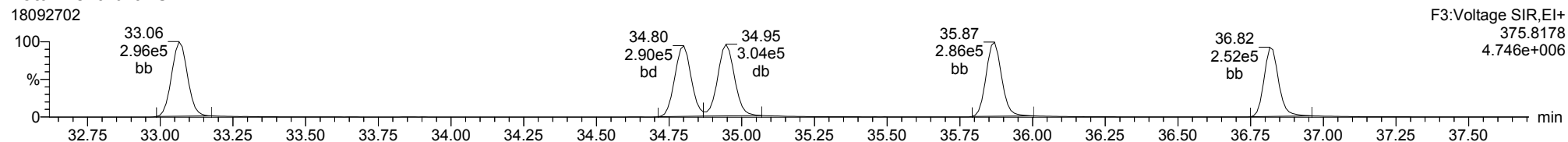
13C-234678-HxCDF



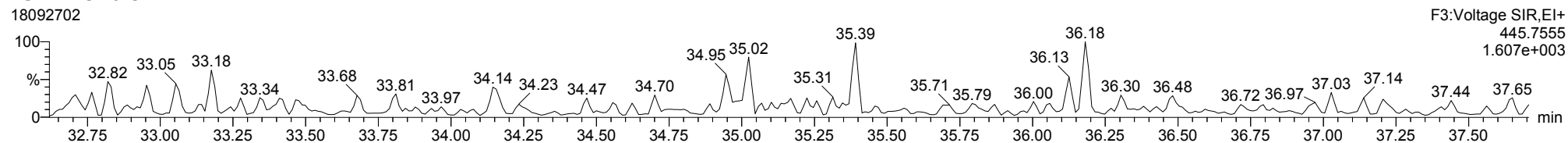
Total-hexafurans



Total-hexafurans



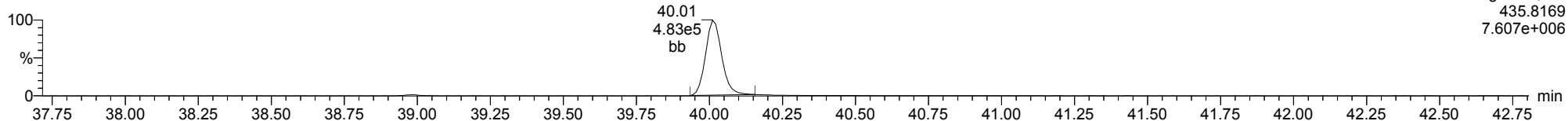
FUNCTION3 OCDPE



ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

13C-1234678-HpCDD

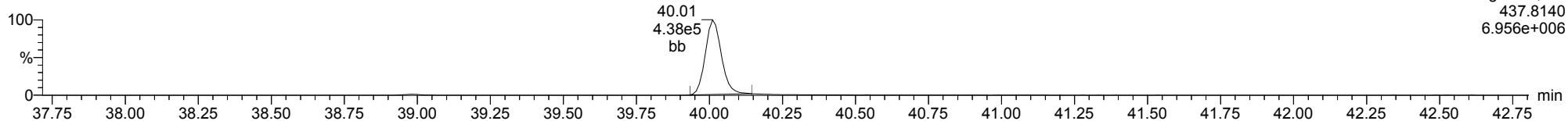
18092702



F4:Voltage SIR,EI+
435.8169
7.607e+006

13C-1234678-HpCDD

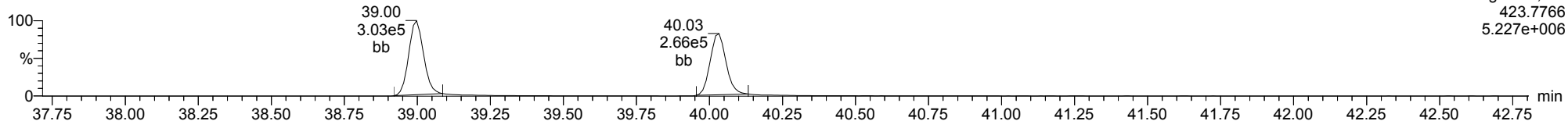
18092702



F4:Voltage SIR,EI+
437.8140
6.956e+006

Total-heptadioxins

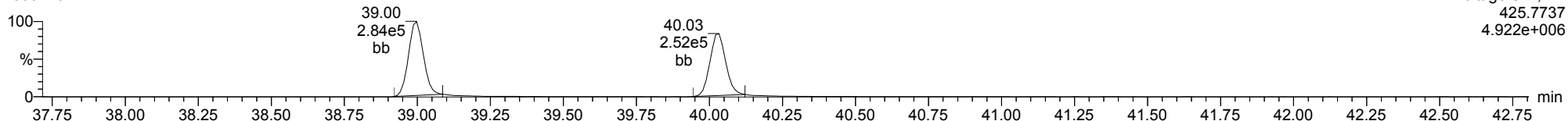
18092702



F4:Voltage SIR,EI+
423.7766
5.227e+006

Total-heptadioxins

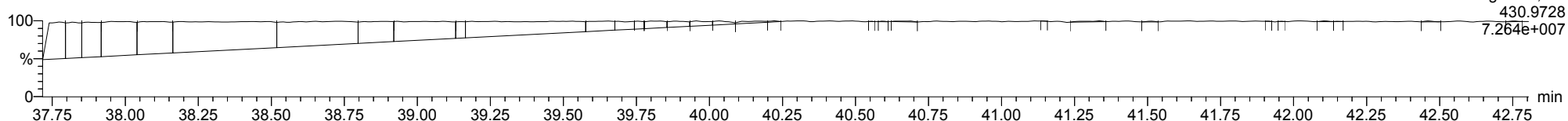
18092702



F4:Voltage SIR,EI+
425.7737
4.922e+006

FUNCTION4 PFK

18092702

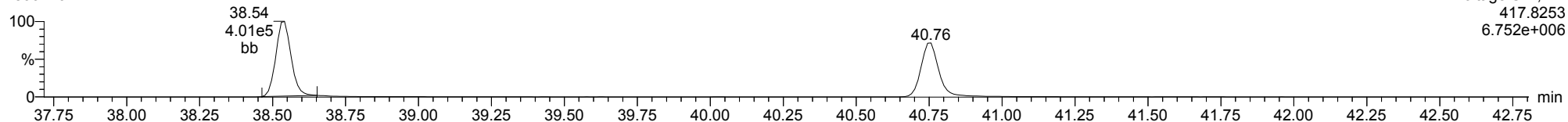


F4:Voltage SIR,EI+
430.9728
7.264e+007

ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

13C-1234678-HpCDF

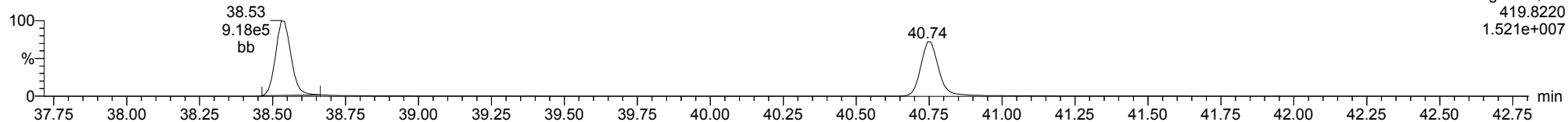
18092702



F4:Voltage SIR,EI+
417.8253
6.752e+006

13C-1234678-HpCDF

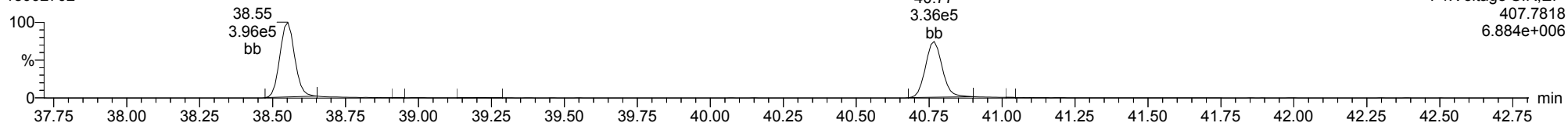
18092702



F4:Voltage SIR,EI+
419.8220
1.521e+007

Total-heptafurans

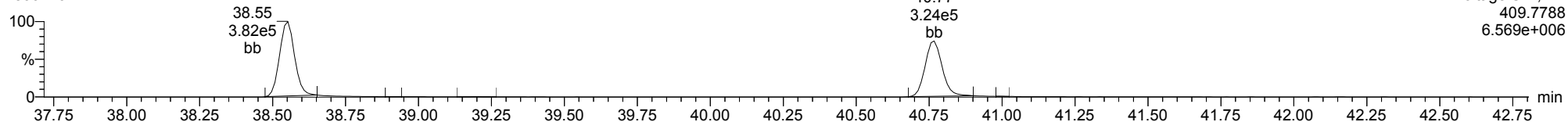
18092702



F4:Voltage SIR,EI+
407.7818
6.884e+006

Total-heptafurans

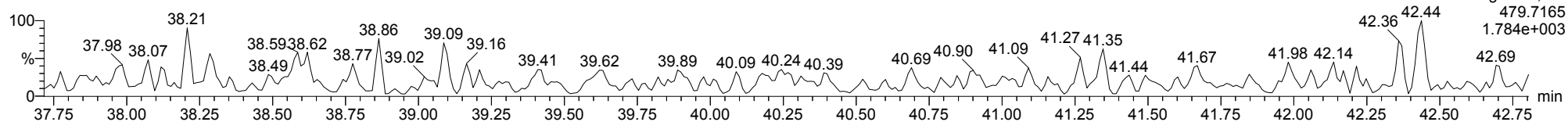
18092702



F4:Voltage SIR,EI+
409.7788
6.569e+006

FUNCTION4 NCDPE

18092702

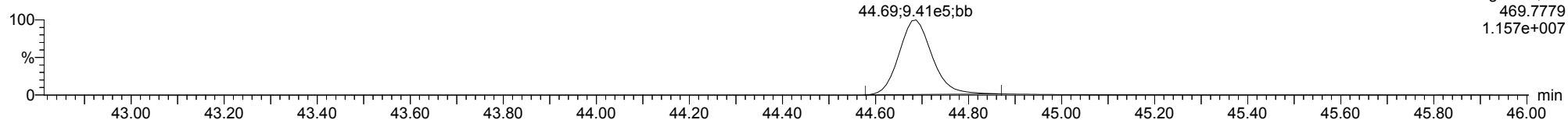


F4:Voltage SIR,EI+
479.7165
1.784e+003

ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

13C-OCDD

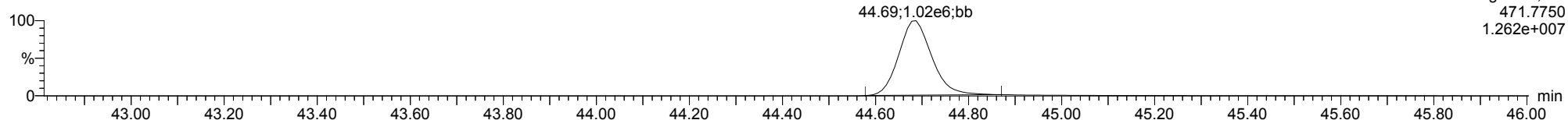
18092702



F5:Voltage SIR,EI+
469.7779
1.157e+007

13C-OCDD

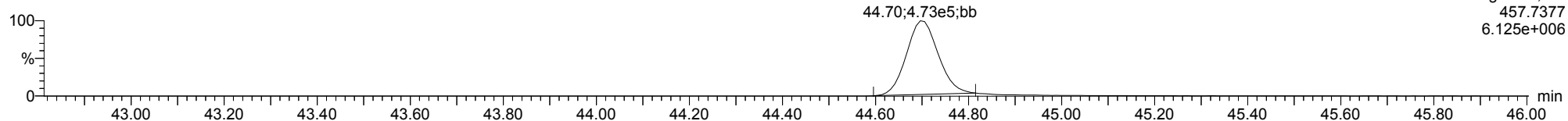
18092702



F5:Voltage SIR,EI+
471.7750
1.262e+007

OCDD

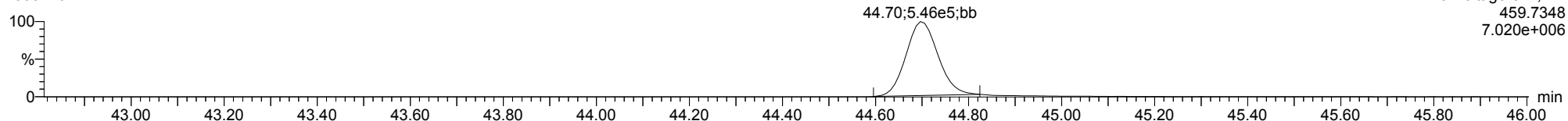
18092702



F5:Voltage SIR,EI+
457.7377
6.125e+006

OCDD

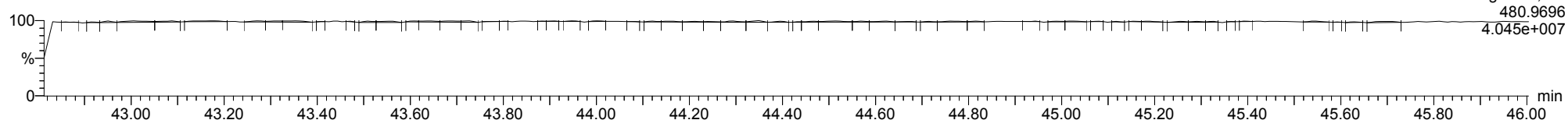
18092702



F5:Voltage SIR,EI+
459.7348
7.020e+006

FUNCTION5 PFK

18092702

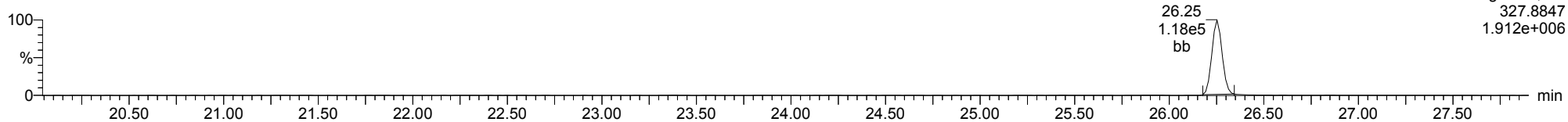


F5:Voltage SIR,EI+
480.9696
4.045e+007

ID: CS3T1, Name: 18092702, Date: 27-Sep-2018, Time: 14:38:36, Conditions: AUTOSPEC01, User: PK

37CL-2378-TCDD

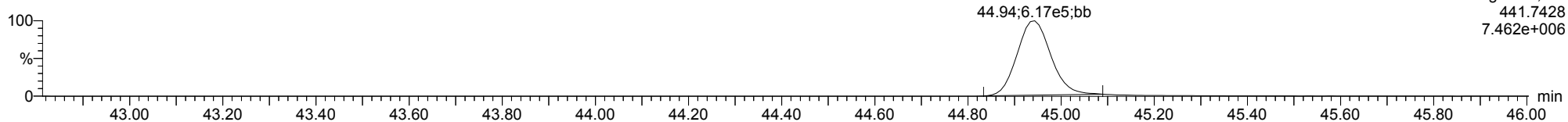
18092702



F1:Voltage SIR,EI+
327.8847
1.912e+006

OCDF

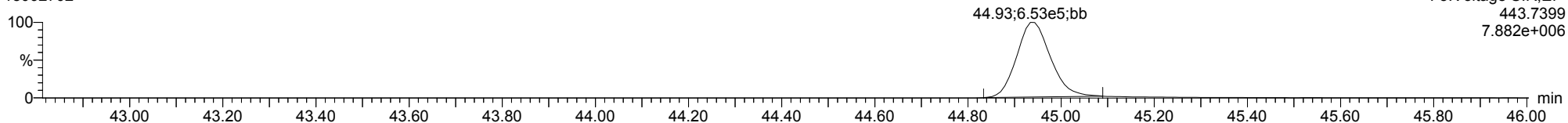
18092702



F5:Voltage SIR,EI+
441.7428
7.462e+006

OCDF

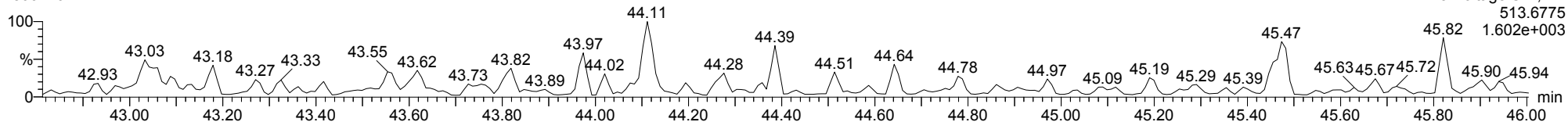
18092702



F5:Voltage SIR,EI+
443.7399
7.882e+006

FUNCTION5 DCDPE

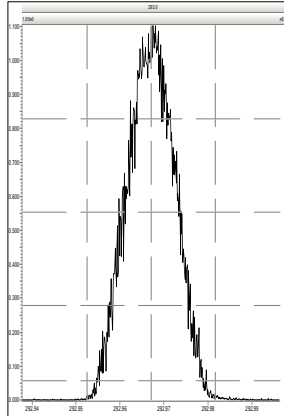
18092702



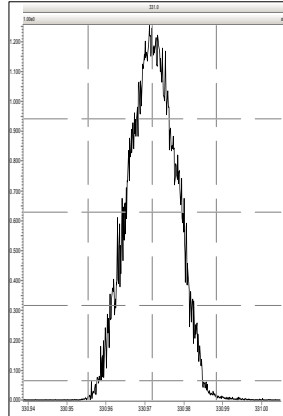
F5:Voltage SIR,EI+
513.6775
1.602e+003

Printed: Thursday, September 27, 2018 14:38:08 Pacific Daylight Time

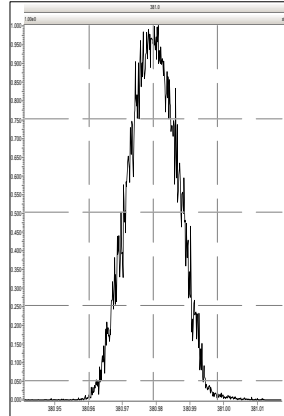
M 292.9824 R 12695



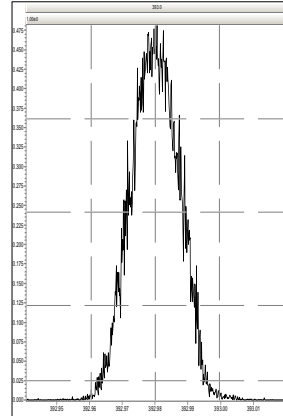
M 330.9792 R 12563



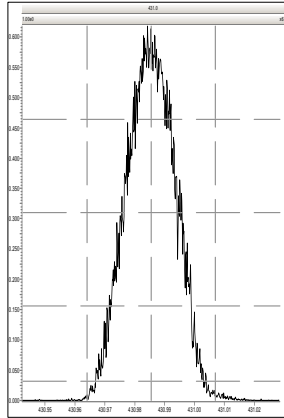
M 380.9760 R 12448



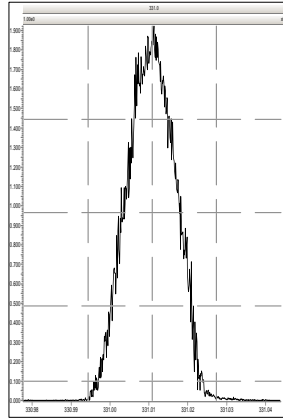
M 392.9760 R 12691



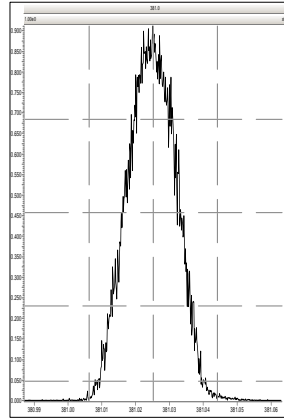
M 430.9728 R 12019



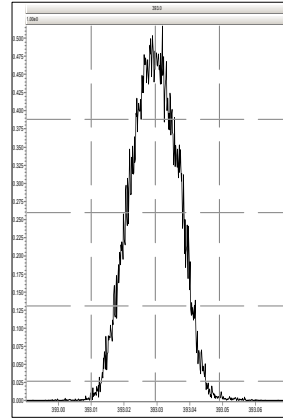
M 330.9792 R 12760



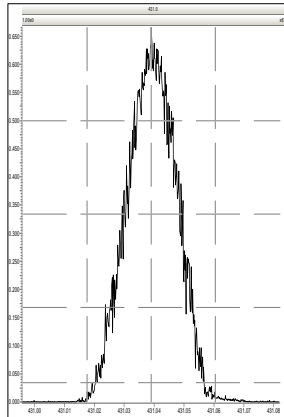
M 380.9760 R 12627



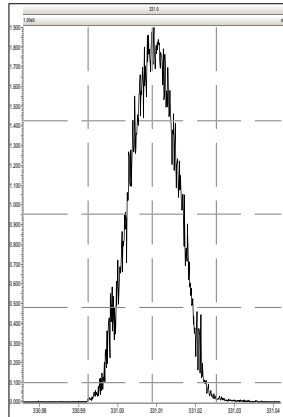
M 392.9760 R 12285



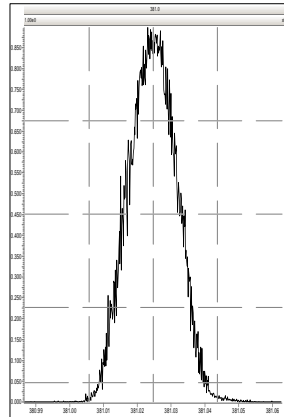
M 430.9728 R 12056



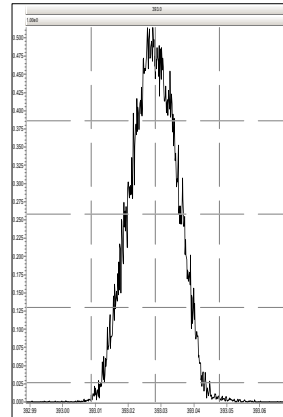
M 330.9792 R 12470



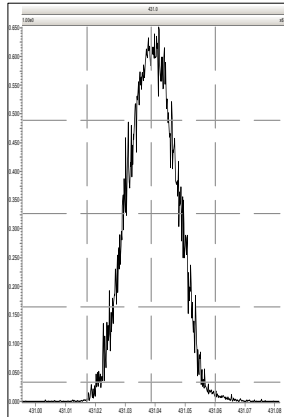
M 380.9760 R 12563



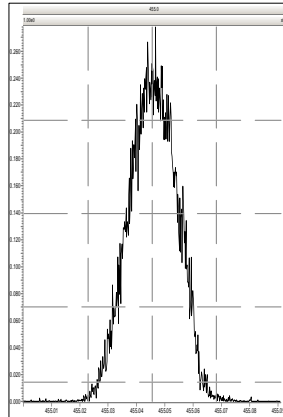
M 392.9760 R 12631



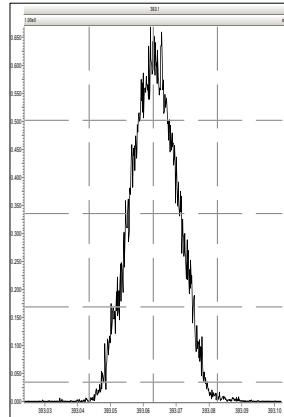
M 430.9728 R 12395



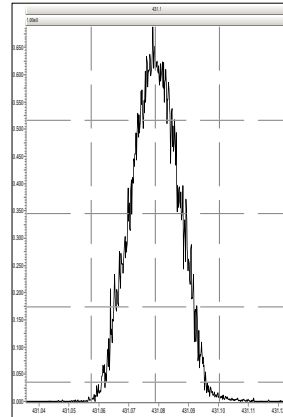
M 454.9728 R 12472



M 392.9760 R 13021

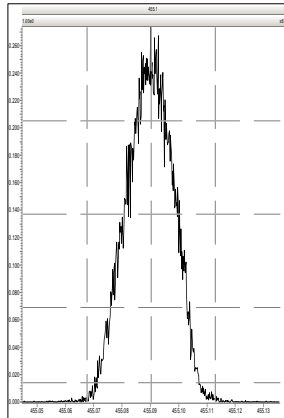


M 430.9728 R 13020

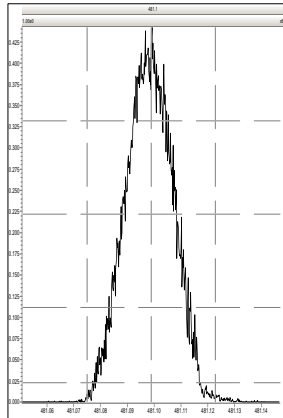


Printed: Thursday, September 27, 2018 14:38:08 Pacific Daylight Time

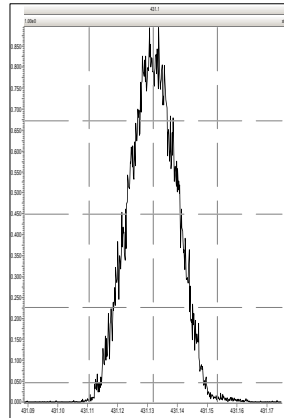
M 454.9728 R 12728



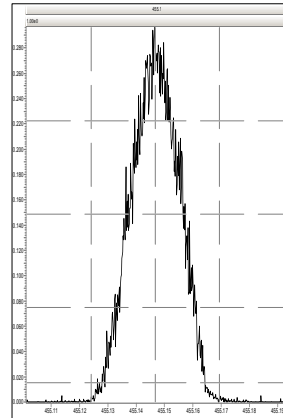
M 480.9696 R 12285



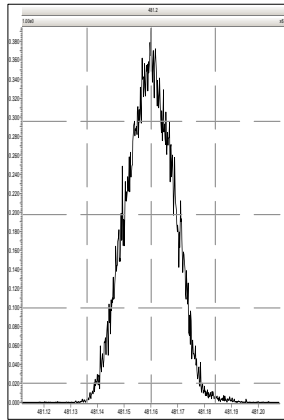
M 430.9728 R 12667



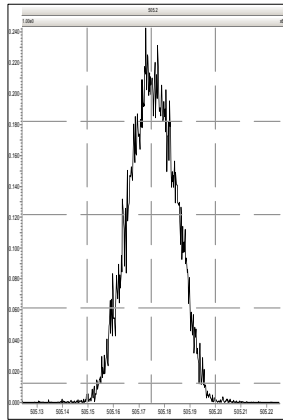
M 454.9728 R 12600



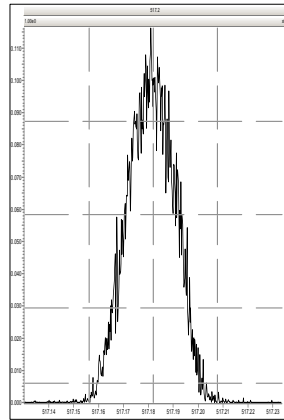
M 480.9696 R 12600



M 504.9696 R 12288



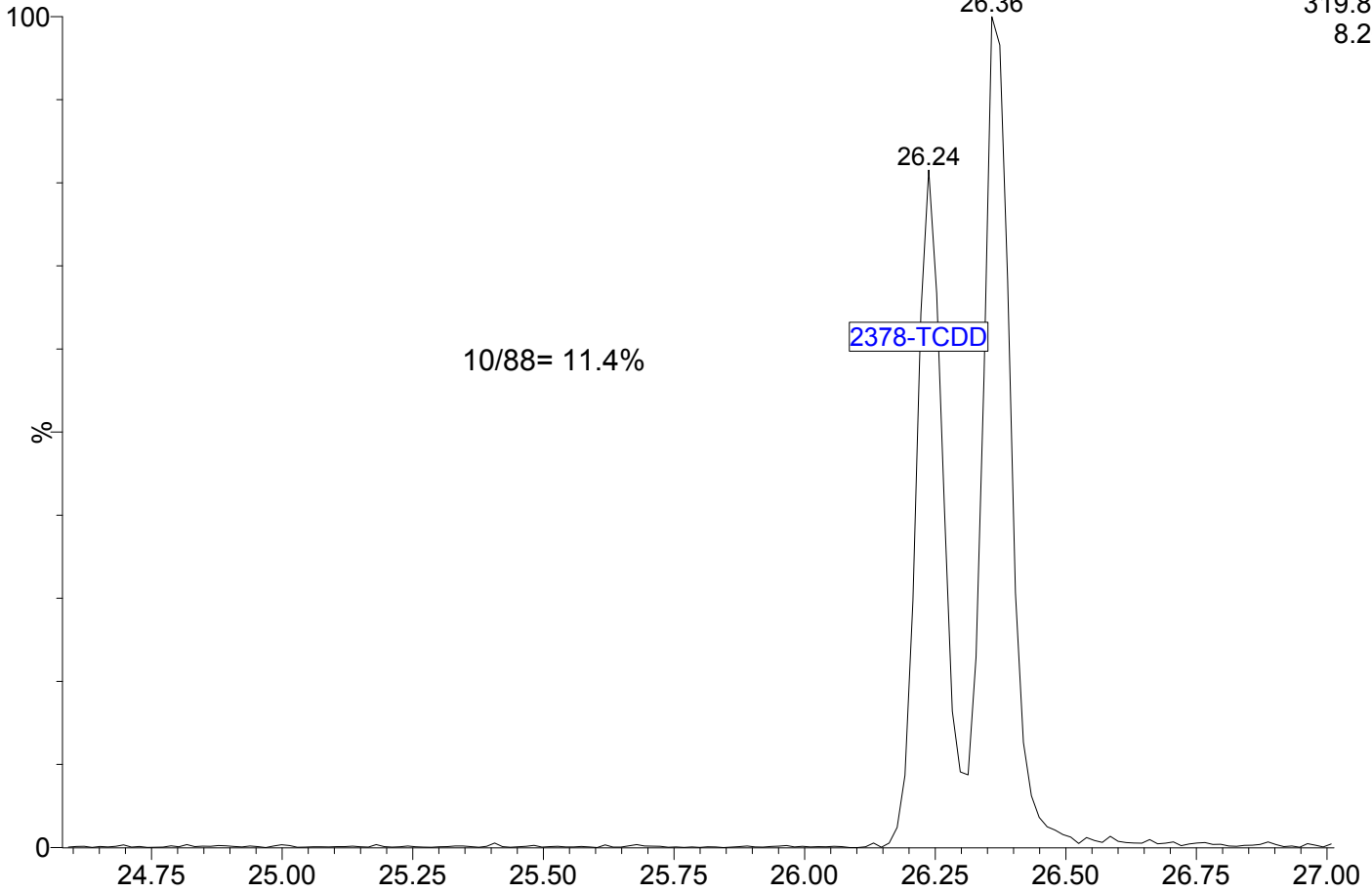
M 516.9697 R 12531



18092703

1: Voltage SIR 15 Channels EI+

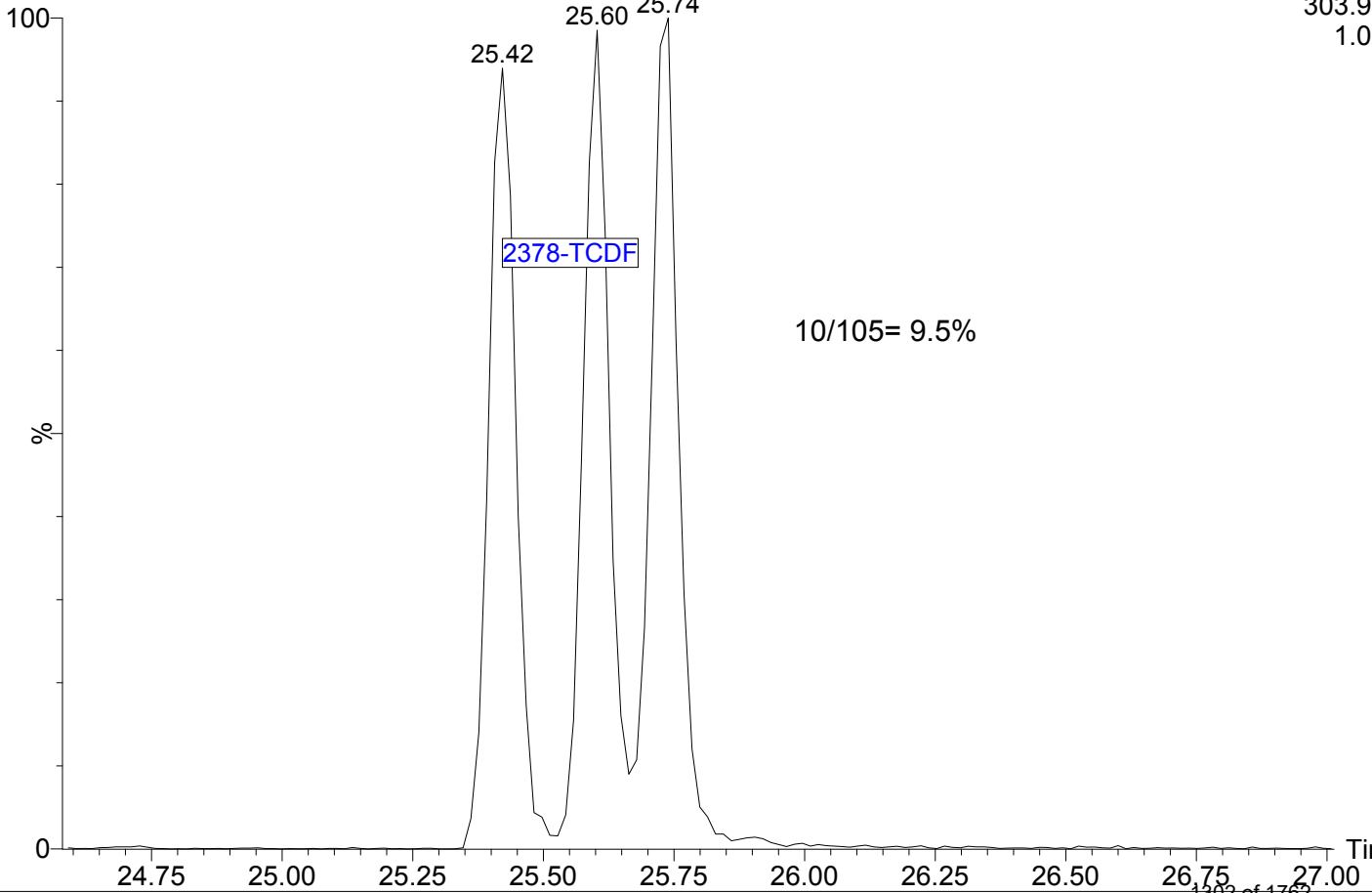
319.8965
8.20e5



18092703

1: Voltage SIR 15 Channels EI+

303.9016
1.02e6





**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 18I0285
 Instrument .ID: AUTOSPEC01 Lab File ID: 18082003
 Date Analyzed: 08/20/18 Time Analyzed: 15:09
 Lab Sample ID: SGH0285-RES1 Sequence: SGH0285

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 4.9

3467-TCDF/2378-TCDF: 3.7

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SGH0285-RES1	ISC11	18082003	08/20/2018	15:09
SGH0285-CAL1	CSL	18082005	08/20/2018	16:46
SGH0285-CAL2	CS1	18082006	08/20/2018	17:35
SGH0285-CAL3	CS2	18082007	08/20/2018	18:24
SGH0285-CAL4	CS3	18082008	08/20/2018	19:12
SGH0285-CAL5	CS4	18082009	08/20/2018	20:01
SGH0285-CAL6	CS5	18082010	08/20/2018	20:49
SGH0285-SCV1	SSV	18082011	08/20/2018	21:38
SGH0285-RES2	ISC12	18082013	08/20/2018	23:15



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 18I0285
 Instrument .ID: AUTOSPEC01 Lab File ID: 18082013
 Date Analyzed: 08/20/18 Time Analyzed: 23:15
 Lab Sample ID: SGH0285-RES2 Sequence: SGH0285

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 6.7

3467-TCDF/2378-TCDF: 3.8

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SGH0285-RES1	ISC11	18082003	08/20/2018	15:09
SGH0285-CAL1	CSL	18082005	08/20/2018	16:46
SGH0285-CAL2	CS1	18082006	08/20/2018	17:35
SGH0285-CAL3	CS2	18082007	08/20/2018	18:24
SGH0285-CAL4	CS3	18082008	08/20/2018	19:12
SGH0285-CAL5	CS4	18082009	08/20/2018	20:01
SGH0285-CAL6	CS5	18082010	08/20/2018	20:49
SGH0285-SCV1	SSV	18082011	08/20/2018	21:38
SGH0285-RES2	ISC12	18082013	08/20/2018	23:15



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 18I0285
 Instrument .ID: AUTOSPEC01 Lab File ID: 18092703
 Date Analyzed: 09/27/18 Time Analyzed: 15:26
 Lab Sample ID: SGI0436-RES1 Sequence: SGI0436

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 11.4

3467-TCDF/2378-TCDF: 9.5

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SGI0436-ICV1	CS3T1	18092702A	09/27/2018	14:38
SGI0436-RES1	ISCT1	18092703	09/27/2018	15:26
BGI0677-BLK2	Blank	18092704A	09/27/2018	16:15
BGI0677-BS2	LCS	18092705A	09/27/2018	17:03
BGI0677-DUP1	Duplicate	18092710	09/27/2018	21:06
18I0285-38	PGLTM-RB-180919	18092712	09/27/2018	22:43
SGI0436-CCV1	CS3T2	18092713A	09/27/2018	23:32
SGI0436-RES2	ISCT2	18092714	09/28/2018	00:25



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 18I0285
 Instrument .ID: AUTOSPEC01 Lab File ID: 18092714
 Date Analyzed: 09/28/18 Time Analyzed: 00:25
 Lab Sample ID: SGI0436-RES2 Sequence: SGI0436

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 10

3467-TCDF/2378-TCDF: 8.3

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SGI0436-ICV1	CS3T1	18092702A	09/27/2018	14:38
SGI0436-RES1	ISCT1	18092703	09/27/2018	15:26
BGI0677-BLK2	Blank	18092704A	09/27/2018	16:15
BGI0677-BS2	LCS	18092705A	09/27/2018	17:03
BGI0677-DUP1	Duplicate	18092710	09/27/2018	21:06
18I0285-38	PGLTM-RB-180919	18092712	09/27/2018	22:43
SGI0436-CCV1	CS3T2	18092713A	09/27/2018	23:32
SGI0436-RES2	ISCT2	18092714	09/28/2018	00:25



CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY EPA 1613B

Lab Name: Analytical Resources, Inc. SDG: 18I0285
 Instrument .ID: AUTOSPEC01 Lab File ID: 18100503
 Date Analyzed: 10/05/18 Time Analyzed: 11:15
 Lab Sample ID: SGJ0093-RES1 Sequence: SGJ0093

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 12

3467-TCDF/2378-TCDF: 9.5

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SGJ0093-ICV1	CS3V1	18100502	10/05/2018	10:18
SGJ0093-RES1	ISCV1	18100503	10/05/2018	11:15
BGI0793-BLK1	Blank	18100504	10/05/2018	12:03
BGI0793-BS1	LCS	18100505	10/05/2018	12:52
BGI0793-SRM1	Reference	18100506	10/05/2018	13:40
BGI0793-DUP1	Duplicate	18100507	10/05/2018	14:29
18I0285-01	SMA1A-IT-0-10-Comp-180917	18100509	10/05/2018	16:06
18I0285-02	SMA1-ST-0-10-Comp-180917	18100510	10/05/2018	16:54
18I0285-03	SMA2A-IT-0-10-Comp-180919	18100511	10/05/2018	17:43
18I0285-04	SMA2A-ST-0-10-Comp-180918	18100512	10/05/2018	18:31
SGJ0093-CCV1	CS3V2	18100513	10/05/2018	19:20
SGJ0093-RES2	ISCV2	18100514	10/05/2018	20:13
18I0285-05	SMA2B-IT-0-10-Comp-180918	18100515	10/05/2018	21:03
18I0285-06	SMA2B-ST-0-10-Comp-180918	18100516	10/05/2018	21:52
18I0285-37	SMA102B-ST-0-10-Comp-180918	18100517	10/05/2018	22:41
SGJ0093-CCV2	CS3V3	18100524	10/06/2018	04:20
SGJ0093-RES3	ISCV3	18100525	10/06/2018	05:14



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 18I0285
 Instrument .ID: AUTOSPEC01 Lab File ID: 18100514
 Date Analyzed: 10/05/18 Time Analyzed: 20:13
 Lab Sample ID: SGJ0093-RES2 Sequence: SGJ0093

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 9.8

3467-TCDF/2378-TCDF: 8.6

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SGJ0093-ICV1	CS3V1	18100502	10/05/2018	10:18
SGJ0093-RES1	ISCV1	18100503	10/05/2018	11:15
BGI0793-BLK1	Blank	18100504	10/05/2018	12:03
BGI0793-BS1	LCS	18100505	10/05/2018	12:52
BGI0793-SRM1	Reference	18100506	10/05/2018	13:40
BGI0793-DUP1	Duplicate	18100507	10/05/2018	14:29
18I0285-01	SMA1A-IT-0-10-Comp-180917	18100509	10/05/2018	16:06
18I0285-02	SMA1-ST-0-10-Comp-180917	18100510	10/05/2018	16:54
18I0285-03	SMA2A-IT-0-10-Comp-180919	18100511	10/05/2018	17:43
18I0285-04	SMA2A-ST-0-10-Comp-180918	18100512	10/05/2018	18:31
SGJ0093-CCV1	CS3V2	18100513	10/05/2018	19:20
SGJ0093-RES2	ISCV2	18100514	10/05/2018	20:13
18I0285-05	SMA2B-IT-0-10-Comp-180918	18100515	10/05/2018	21:03
18I0285-06	SMA2B-ST-0-10-Comp-180918	18100516	10/05/2018	21:52
18I0285-37	SMA102B-ST-0-10-Comp-180918	18100517	10/05/2018	22:41
SGJ0093-CCV2	CS3V3	18100524	10/06/2018	04:20
SGJ0093-RES3	ISCV3	18100525	10/06/2018	05:14



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 18I0285
 Instrument .ID: AUTOSPEC01 Lab File ID: 18100525
 Date Analyzed: 10/06/18 Time Analyzed: 05:14
 Lab Sample ID: SGJ0093-RES3 Sequence: SGJ0093

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 9.4

3467-TCDF/2378-TCDF: 8

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SGJ0093-ICV1	CS3V1	18100502	10/05/2018	10:18
SGJ0093-RES1	ISCV1	18100503	10/05/2018	11:15
BGI0793-BLK1	Blank	18100504	10/05/2018	12:03
BGI0793-BS1	LCS	18100505	10/05/2018	12:52
BGI0793-SRM1	Reference	18100506	10/05/2018	13:40
BGI0793-DUP1	Duplicate	18100507	10/05/2018	14:29
18I0285-01	SMA1A-IT-0-10-Comp-180917	18100509	10/05/2018	16:06
18I0285-02	SMA1-ST-0-10-Comp-180917	18100510	10/05/2018	16:54
18I0285-03	SMA2A-IT-0-10-Comp-180919	18100511	10/05/2018	17:43
18I0285-04	SMA2A-ST-0-10-Comp-180918	18100512	10/05/2018	18:31
SGJ0093-CCV1	CS3V2	18100513	10/05/2018	19:20
SGJ0093-RES2	ISCV2	18100514	10/05/2018	20:13
18I0285-05	SMA2B-IT-0-10-Comp-180918	18100515	10/05/2018	21:03
18I0285-06	SMA2B-ST-0-10-Comp-180918	18100516	10/05/2018	21:52
18I0285-37	SMA102B-ST-0-10-Comp-180918	18100517	10/05/2018	22:41
SGJ0093-CCV2	CS3V3	18100524	10/06/2018	04:20
SGJ0093-RES3	ISCV3	18100525	10/06/2018	05:14



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 18I0285
 Instrument .ID: AUTOSPEC01 Lab File ID: 18092703
 Date Analyzed: 09/27/18 Time Analyzed: 15:26
 Lab Sample ID: SGI0436-RES1 Sequence: SGI0436

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 11.4

3467-TCDF/2378-TCDF: 9.5

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SGI0436-ICV1	CS3T1	18092702A	09/27/2018	14:38
SGI0436-RES1	ISCT1	18092703	09/27/2018	15:26
BGI0677-BLK2	Blank	18092704A	09/27/2018	16:15
BGI0677-BS2	LCS	18092705A	09/27/2018	17:03
BGI0677-DUP1	Duplicate	18092710	09/27/2018	21:06
18I0285-38	PGLTM-RB-180919	18092712	09/27/2018	22:43
SGI0436-CCV1	CS3T2	18092713A	09/27/2018	23:32
SGI0436-RES2	ISCT2	18092714	09/28/2018	00:25



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 18I0285
 Instrument .ID: AUTOSPEC01 Lab File ID: 18092714
 Date Analyzed: 09/28/18 Time Analyzed: 00:25
 Lab Sample ID: SGI0436-RES2 Sequence: SGI0436

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 10

3467-TCDF/2378-TCDF: 8.3

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SGI0436-ICV1	CS3T1	18092702A	09/27/2018	14:38
SGI0436-RES1	ISCT1	18092703	09/27/2018	15:26
BGI0677-BLK2	Blank	18092704A	09/27/2018	16:15
BGI0677-BS2	LCS	18092705A	09/27/2018	17:03
BGI0677-DUP1	Duplicate	18092710	09/27/2018	21:06
18I0285-38	PGLTM-RB-180919	18092712	09/27/2018	22:43
SGI0436-CCV1	CS3T2	18092713A	09/27/2018	23:32
SGI0436-RES2	ISCT2	18092714	09/28/2018	00:25



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Sequence: SGH0285

Instrument: AUTOSPEC01

Calibration: BH00060

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ISCI1	SGH0285-RES1	18082003	NA	08/20/18 15:09
CSL	SGH0285-CAL1	18082005	NA	08/20/18 16:46
CS1	SGH0285-CAL2	18082006	NA	08/20/18 17:35
CS2	SGH0285-CAL3	18082007	NA	08/20/18 18:24
CS3	SGH0285-CAL4	18082008	NA	08/20/18 19:12
CS4	SGH0285-CAL5	18082009	NA	08/20/18 20:01
CS5	SGH0285-CAL6	18082010	NA	08/20/18 20:49
SSV	SGH0285-SCV1	18082011	NA	08/20/18 21:38
ISCI2	SGH0285-RES2	18082013	NA	08/20/18 23:15



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Sequence: SGI0436

Instrument: AUTOSPEC01

Calibration: BH00058

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3T1	SGI0436-ICV1	18092702A	NA	09/27/18 14:38
ISCT1	SGI0436-RES1	18092703	NA	09/27/18 15:26
Blank	BGI0677-BLK2	18092704A	Water	09/27/18 16:15
LCS	BGI0677-BS2	18092705A	Water	09/27/18 17:03
PGLTM-RB-180919	BGI0677-DUP1	18092710	Water	09/27/18 21:06
PGLTM-RB-180919	18I0285-38	18092712	Water	09/27/18 22:43
CS3T2	SGI0436-CCV1	18092713A	NA	09/27/18 23:32
ISCT2	SGI0436-RES2	18092714	NA	09/28/18 00:25

Port Gamble - OMMP LTM

18I0285

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
1613B Dioxin	Solid	EPA 1613B
1613B Dioxin	Water	EPA 1613B

Checklist for SEQUENCE SGI0436

Checklist: DLM02.2 HR-GC/MS Checklist (rev2)

# Checklist Item	Response	Analyst Initials	Date
1 Resolution Check > 10,000 ppm	YES	PK	09/28/2018
2 TCDD/TCDF Resolution <= 25%	YES	PK	09/28/2018
3 PCDF markers >= 10 seconds from scan descriptor switch	YES	PK	09/28/2018
4 ICV/CCV meets %D limits	YES	PK	09/28/2018
5 ICV/CCV Ion ratios within limits	YES	PK	09/28/2018
6 ICV/CCV RRT within limits	YES	PK	09/28/2018
7 Manual integrations were applied as per SOP 1021s	YES	PK	09/28/2018
8 Signal/Noise >= 3.0 for all detections	YES	PK	09/28/2018
9 Sample values exceeding calibration range are qualified with an E	NA	PK	09/28/2018
10 Narrate samples per Workorder that will require more than one analysis to be reported due to dilutions or re-analysis	NA	PK	09/28/2018
11 Verify that all samples requiring a dilution or re-analysis have been added to another batch or sequence	NA	PK	09/28/2018
12 Extraction basis, sample prep, dilution factor, and total solids are correctly entered	YES	PK	09/28/2018
13 MRL and MDL values were adjusted for a bench dilution using rev_DioxinEMPC.exe	YES	PK	09/28/2018
14 AUTOCHECK: Blank checked for exceedance of criteria Comments: <i>QC Sample BGI0677-BLK2 failed criteria for OCDD in 1613B Dioxin. MDL = 3.14 pg/L MRL = 20.0 pg/L Result = 2.28 pg/L Criterion = 0 x RL</i>	NO *	PK	09/28/2018
15 AUTOCHECK: Check Extraction and Cleanup Surrogate recoveries	YES *	PK	09/28/2018
16 AUTOCHECK: Check blank spike (OPR) recovery	YES *	PK	09/28/2018
17 AUTOCHECK: Check %RPD between sample and sample duplicate	YES *	PK	09/28/2018
18 AUTOCHECK: Check SRM limits for exceedance	NA *	PK	09/28/2018
19 Data locked, checklist completed and status is analyzed (REVIEWER)	YES	MW	09/28/2018
20 Color warnings have been addressed, narrated and (or) qualified (REVIEWER)	YES	MW	09/28/2018
21 List of samples in this sequence that will require additional runs-verify reshot created (ANALYST)			12/30/1899
22 List of samples in this sequence that are re-analysis or dilutions of samples (ANALYST)			12/30/1899
23 Extraction benchesheets, glassware log and sequence audit trails attached, dated and initialed			12/30/1899

* = Indicates Automated Response from Element DataSyst

Port Gamble - OMMP LTM

18I0285

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
1613B Dioxin	Solid	EPA 1613B
1613B Dioxin	Water	EPA 1613B

Checklist for SEQUENCE SGI0436

Checklist: DLM02.2 HR-GC/MS Checklist (rev2)

<u># Checklist Item</u>	<u>Response</u>	<u>Analyst Initials</u>	<u>Date</u>
24 Additional Notes (ANALYST and REVIEWER) Comments: <i>EXCEPTION REPORT REQUIRED</i>	NO	MW	09/28/2018



ANALYSIS SEQUENCE

SGI0436

Instrument: AUTOSPEC01 Element Column ID: RTX-DIOXIN2
 Calibration ID: BH00058 Tune File: AUG2018_1-5
 EM Voltage: 360 Resolution check times : 14:38, 00:25

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SGI0436-ICV1	CS3T1	QC		1	G007005	G002584	
SGI0436-RES1	ISCT1	QC		2	G006947	G002584	
BGI0677-BLK2	Blank	QC		3		G002584	
BGI0677-DUP1	Duplicate	QC		5		G002584	
1810176-05	MW-6	1613B Dioxin	P	6		G002584	
1810285-38	PGLTM-RB-180919	1613B Dioxin	A	7		G002584	
SGI0436-CCV1	CS3T2	QC		8	G007005	G002584	
SGI0436-RES2	ISCT2	QC		9	G006947	G002584	

Dataset: Untitled
Last Altered: Friday, September 28, 2018 11:23:01 Pacific Daylight Time
Printed: Friday, September 28, 2018 11:24:58 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICEPA.cdb 21 Aug 2018 11:16:02

Compound name: 2378-TCDF

#	Acq.Date	Acq.Time	File	ID	Comments
1	27-Sep-18	14:38:36	18092702	CS3T1	
2	27-Sep-18	15:26:32	18092703	ISCT1	
3	27-Sep-18	16:15:01	18092704	DBLK26	
4	27-Sep-18	17:03:33	18092705	DLCS26	
5	27-Sep-18	17:52:03	18092706	DLCS26	
6	27-Sep-18	18:40:43	18092707	BGI0677-MRL1	
7	27-Sep-18	19:29:12	18092708	BGI0677-MRL2	
8	27-Sep-18	20:17:44	18092709	PX2E14	
9	27-Sep-18	21:06:13	18092710	BGI0677-DUP1	
10	27-Sep-18	21:54:46	18092711	18I0176-05	
11	27-Sep-18	22:43:30	18092712	18I0285-38	
12	27-Sep-18	23:32:03	18092713	CS3T2	
13	28-Sep-18	00:25:19	18092714	ISCT2	

Dataset: T:\Autospec\Processed Data Batch\180927OPIH.qld
Last Altered: Friday, September 28, 2018 11:40:14 Pacific Daylight Time
Printed: Friday, September 28, 2018 11:41:33 Pacific Daylight Time

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Peak added	Sample:18092704, Compound:OD, RT:44.709	3
Peak added	Sample:18092704, Compound:OD, RT:44.728	3
Peak deleted	Sample:18092704, Compound:TD, RT:26.253	3
Peak deleted	Sample:18092705, Compound:PF, RT:30.219	4
Peak deleted	Sample:18092705, Compound:PF, RT:30.063	4
Peak deleted	Sample:18092705, Compound:HF, RT:35.183	4
Peak deleted	Sample:18092705, Compound:PF, RT:31.343	4
Peak deleted	Sample:18092705, Compound:HF, RT:37.131	4
Peak deleted	Sample:18092705, Compound:HF, RT:36.106	4
Peak deleted	Sample:18092705, Compound:HPF, RT:39.190	4
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\180927OPIH.qld'	

Dataset: T:\Autospec\Processed Data Batch\180927DIH.qld
 Last Altered: Friday, September 28, 2018 11:48:12 Pacific Daylight Time
 Printed: Friday, September 28, 2018 11:49:22 Pacific Daylight Time

9/28/18

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Pre modification peak	Sample:18092710, Compound:HF, RT:36.830	1
Peak modified	Sample:18092710, Compound:HF, RT:36.830	1
Pre modification peak	Sample:18092710, Compound:HF, RT:36.830	1
Peak modified	Sample:18092710, Compound:HF, RT:36.830	1
Pre modification peak	Sample:18092710, Compound:OD, RT:44.682	1
Peak modified	Sample:18092710, Compound:OD, RT:44.682	1
Pre modification peak	Sample:18092710, Compound:OD, RT:44.718	1
Peak modified	Sample:18092710, Compound:OD, RT:44.718	1
Peak deleted	Sample:18092710, Compound:TD, RT:26.238	1
Peak added	Sample:18092711, Compound:OD, RT:44.704	2
Peak modified	Sample:18092711, Compound:OD, RT:44.704	2
Peak added	Sample:18092711, Compound:OD, RT:44.714	2
Peak modified	Sample:18092711, Compound:OD, RT:44.714	2
Peak deleted	Sample:18092711, Compound:TF, RT:25.422	2
Peak added	Sample:18092712, Compound:OD, RT:44.644	3
Peak added	Sample:18092712, Compound:OD, RT:44.699	3
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\180927DIH.qld'	



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Sequence: SGJ0093

Instrument: AUTOSPEC01

Calibration: BH00060

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3V1	SGJ0093-ICV1	18100502	NA	10/05/18 10:18
ISCV1	SGJ0093-RES1	18100503	NA	10/05/18 11:15
Blank	BGI0793-BLK1	18100504	Solid	10/05/18 12:03
LCS	BGI0793-BS1	18100505	Solid	10/05/18 12:52
Reference	BGI0793-SRM1	18100506	Solid	10/05/18 13:40
SMA1A-IT-0-10-Comp-180917	BGI0793-DUP1	18100507	Solid	10/05/18 14:29
SMA1A-IT-0-10-Comp-180917	18I0285-01	18100509	Solid	10/05/18 16:06
SMA1-ST-0-10-Comp-180917	18I0285-02	18100510	Solid	10/05/18 16:54
SMA2A-IT-0-10-Comp-180919	18I0285-03	18100511	Solid	10/05/18 17:43
SMA2A-ST-0-10-Comp-180918	18I0285-04	18100512	Solid	10/05/18 18:31
CS3V2	SGJ0093-CCV1	18100513	NA	10/05/18 19:20
ISCV2	SGJ0093-RES2	18100514	NA	10/05/18 20:13
SMA2B-IT-0-10-Comp-180918	18I0285-05	18100515	Solid	10/05/18 21:03
SMA2B-ST-0-10-Comp-180918	18I0285-06	18100516	Solid	10/05/18 21:52
SMA102B-ST-0-10-Comp-180918	18I0285-37	18100517	Solid	10/05/18 22:41
CS3V3	SGJ0093-CCV2	18100524	NA	10/06/18 04:20
ISCV3	SGJ0093-RES3	18100525	NA	10/06/18 05:14

Port Gamble - OMMP LTM

18I0285

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
1613B Dioxin	Solid	EPA 1613B
1613B Dioxin	Water	EPA 1613B

Checklist for SEQUENCE SGJ0093

Checklist: DLM02.2 HR-GC/MS Checklist (rev2)

# Checklist Item	Response	Analyst Initials	Date
1 Resolution Check > 10,000 ppm	YES	PK	10/08/2018
2 TCDD/TCDF Resolution <= 25%	YES	PK	10/08/2018
3 PCDF markers >= 10 seconds from scan descriptor switch	YES	PK	10/08/2018
4 ICV/CCV meets %D limits	YES	PK	10/08/2018
5 ICV/CCV Ion ratios within limits	YES	PK	10/08/2018
6 ICV/CCV RRT within limits	YES	PK	10/08/2018
7 Manual integrations were applied as per SOP 1021s	YES	PK	10/08/2018
8 Signal/Noise >= 3.0 for all detections	YES	PK	10/08/2018
9 Sample values exceeding calibration range are qualified with an E	NA	PK	10/08/2018
10 Narrate samples per Workorder that will require more than one analysis to be reported due to dilutions or re-analysis	NA	PK	10/08/2018
11 Verify that all samples requiring a dilution or re-analysis have been added to another batch or sequence	NA	PK	10/08/2018
12 Extraction basis, sample prep, dilution factor, and total solids are correctly entered	YES	PK	10/08/2018
13 MRL and MDL values were adjusted for a bench dilution using rev_DioxinEMPC.exe	YES	PK	10/08/2018
14 AUTOCHECK: Blank checked for exceedance of criteria	NO *	PK	10/08/2018

Comments:

QC Sample BGI0793-BLK1 failed criteria for 1,2,3,4,6,7,8-HpCDF in 1613B Dioxin.

MDL = 1.00 ng/kg

MRL = 1.00 ng/kg

Result = 0.0406 ng/kg

Criterion = 0 x RL

QC Sample BGI0793-BLK1 failed criteria for 1,2,3,7,8-PeCDF in 1613B Dioxin.

MDL = 0.690 ng/kg

MRL = 1.00 ng/kg

Result = 0.0508 ng/kg

Criterion = 0 x RL

- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin

QC Sample BGI0793-BLK1 failed criteria for OCDD in 1613B Dioxin.

MDL = 2.70 ng/kg

MRL = 10.0 ng/kg

Result = 0.188 ng/kg

Criterion = 0 x RL

- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin

QC Sample BGI0793-BLK1 failed criteria for Total HpCDF in 1613B Dioxin.

* = Indicates Automated Response from Element DataSyst

Port Gamble - OMMP LTM

18I0285

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
1613B Dioxin	Solid	EPA 1613B
1613B Dioxin	Water	EPA 1613B

Checklist for SEQUENCE SGJ0093

Checklist: DLM02.2 HR-GC/MS Checklist (rev2)

# Checklist Item	Response	Analyst Initials	Date
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*MRL = 1.00 ng/kg
Result = 0.0406 ng/kg
Criterion = 0 x RL*

QC Sample BGI0793-BLK1 failed criteria for Total PeCDF in 1613B Dioxin.

*MRL = 1.00 ng/kg
Result = 0.0508 ng/kg
Criterion = 0 x RL*

15 AUTOCHECK: Check Extraction and Cleanup Surrogate recoveries	YES *	PK	10/08/2018
16 AUTOCHECK: Check blank spike (OPR) recovery	YES *	PK	10/08/2018
17 AUTOCHECK: Check %RPD between sample and sample duplicate	NO *	PK	10/08/2018

Comments:

Duplicate RPD for 1,2,3,4,6,7,8-HpCDD (93.0%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

Duplicate RPD for 1,2,3,4,6,7,8-HpCDF (29.4%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

Duplicate RPD for 1,2,3,4,7,8,9-HpCDF (78.0%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

Duplicate RPD for 1,2,3,4,7,8-HxCDF (64.8%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin

Duplicate RPD for 1,2,3,6,7,8-HxCDD (58.3%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin

Duplicate RPD for 1,2,3,7,8-PeCDF (34.0%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin

Duplicate RPD for 2,3,4,6,7,8-HxCDF (38.2%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin

Duplicate RPD for 2,3,7,8-TCDF (56.0%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

Duplicate RPD for OCDD (99.8%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

Duplicate RPD for OCDF (89.0%) was above the acceptance limit (25) in BGI0793-DUP1 for 1613B Dioxin

Duplicate RPD for 1,2,3,4,6,7,8-HpCDD (76.1%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin

* = Indicates Automated Response from Element DataSyst

Port Gamble - OMMP LTM

18I0285

<u>Analysis</u>	<u>Matrix</u>	<u>Method</u>
1613B Dioxin	Solid	EPA 1613B
1613B Dioxin	Water	EPA 1613B

Checklist for SEQUENCE SGJ0093

Checklist: DLM02.2 HR-GC/MS Checklist (rev2)

# Checklist Item	Response	Analyst Initials	Date
<i>Duplicate RPD for 1,2,3,4,6,7,8-HpCDF (52.9%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin</i>			
<i>Duplicate RPD for 1,2,3,4,7,8,9-HpCDF (28.7%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin</i>			
<i>Duplicate RPD for 1,2,3,4,7,8-HxCDF (41.8%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin</i> <i>- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin</i>			
<i>Duplicate RPD for 1,2,3,6,7,8-HxCDD (48.5%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin</i>			
<i>Duplicate RPD for 1,2,3,7,8,9-HxCDF (82.1%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin</i>			
<i>Duplicate RPD for 1,2,3,7,8-PeCDF (43.9%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin</i>			
<i>Duplicate RPD for 2,3,4,6,7,8-HxCDF (50.3%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin</i> <i>- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin</i>			
<i>Duplicate RPD for OCDD (96.8%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin</i>			
<i>Duplicate RPD for OCDF (75.5%) was above the acceptance limit (25) in BGI0793-DUP2 for 1613B Dioxin</i>			
<i>Most values are EMPC and/or J level.</i>			
18 AUTOCHECK: Check SRM limits for exceedance	NO *	PK	10/08/2018
Comments: <i>Reference Material Recovery for 1,2,3,7,8,9-HxCDF (161%) was outside acceptance limits (50-150) in BGI0793-SRMI for 1613B Dioxin</i>			
<i>On-col values lower than normal due to limited sample volume.</i>			
19 Data locked, checklist completed and status is analyzed (REVIEWER)	YES	MW	10/09/2018
20 Color warnings have been addressed, narrated and (or) qualified (REVIEWER)	YES	MW	10/09/2018
21 List of samples in this sequence that will require additional runs-verify reshot created (ANALYST)			12/30/1899
22 List of samples in this sequence that are re-analysis or dilutions of samples (ANALYST)			12/30/1899
23 Extraction benchesheets, glassware log and sequence audit trails attached, dated and initialed			12/30/1899
24 Additional Notes (ANALYST and REVIEWER)	NO	MW	10/09/2018
Comments: EXCEPTION REPORT REQUIRED			

* = Indicates Automated Response from Element DataSyst



ANALYSIS SEQUENCE

SGJ0093

Instrument: AUTOSPEC01 Element Column ID: RTX-DIOXIN2
 Calibration ID: BH00060 Tune File: AUG2018_1-5
 EM Voltage: 360 Resolution check times : 10:15, 20:13, 05:14

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SGJ0093-ICV1	CS3V1	QC		1	G007005	G002584	
SGJ0093-RES1	ISCV1	QC		2	G006947	G002584	
BGI0793-BLK1	Blank	QC		3		G002584	
BGI0793-BS1	LCS	QC		4		G002584	
BGI0793-SRM1	Reference	QC		5		G002584	
BGI0793-DUP1	Duplicate	QC		6		G002584	
BGI0793-DUP2	Duplicate	QC		7		G002584	
1810285-01	SMA1A-IT-0-10-Comp-180917	1613B Dioxin	B 01	8		G002584	SRM
1810285-02	SMA1-ST-0-10-Comp-180917	1613B Dioxin	B 01	9		G002584	SRM
1810285-03	SMA2A-IT-0-10-Comp-180919	1613B Dioxin	B 01	10		G002584	SRM
1810285-04	SMA2A-ST-0-10-Comp-180918	1613B Dioxin	B 01	11		G002584	SRM
SGJ0093-CCV1	CS3V2	QC		12	G007005	G002584	
SGJ0093-RES2	ISCV2	QC		13	G006947	G002584	
1810285-05	SMA2B-IT-0-10-Comp-180918	1613B Dioxin	B 01	14		G002584	SRM
1810285-06	SMA2B-ST-0-10-Comp-180918	1613B Dioxin	B 01	15		G002584	SRM
1810285-37	MA102B-ST-0-10-Comp-180917	1613B Dioxin	B 01	16		G002584	SRM
1810361-01	BH-DU1-COMP-091918	1613B Dioxin	A 01	17		G002584	
1810361-02	BH-DU2-COMP-092018	1613B Dioxin	A 01	18		G002584	
1810403-01	KC-S-SMHQ01-180926	1613B Dioxin	D 01	19		G002584	
1810403-02	KC-S-SMHQ016-180926	1613B Dioxin	D 01	20		G002584	
1810403-03	KC-S-SMHQ116-180926	1613B Dioxin	B 01	21		G002584	
1810403-04	KC-S-SMHQ02-180926	1613B Dioxin	D 01	22		G002584	



ANALYSIS SEQUENCE

SGJ0093

Instrument: AUTOSPEC01 Element Column ID: RTX-DIOXIN2
Calibration ID: BH00060 Tune File: AUG2018_1-5
EM Voltage: 360 Resolution check times : 10:15, 20:13, 05:14

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SGJ0093-CCV2	CS3V3	QC		23	G007005	G002584	
SGJ0093-RES3	ISCV3	QC		24	G006947	G002584	

Dataset: Untitled
Last Altered: Monday, October 08, 2018 12:11:40 Pacific Daylight Time
Printed: Monday, October 08, 2018 12:11:56 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin180817.mdb 25 Sep 2018 11:22:36
Calibration: T:\Autospec\Curves\180820ICIH.cdb 21 Aug 2018 11:13:54

Compound name: 2378-TCDF

#	Acq.Date	Acq.Time	File	ID	Comments
1	05-Oct-18	10:18:36	18100502	CS3V1	
2	05-Oct-18	11:15:53	18100503	ISCV1	
3	05-Oct-18	12:03:48	18100504	BGI0793-BLK1	
4	05-Oct-18	12:52:17	18100505	BGI0793-BS1	
5	05-Oct-18	13:40:50	18100506	BGI0793-SRM1	
6	05-Oct-18	14:29:18	18100507	BGI0793-DUP1	
7	05-Oct-18	15:17:51	18100508	BGI0793-DUP2	
8	05-Oct-18	16:06:21	18100509	18I0285-01	
9	05-Oct-18	16:54:54	18100510	18I0285-02	
10	05-Oct-18	17:43:24	18100511	18I0285-03	
11	05-Oct-18	18:31:56	18100512	18I0285-04	
12	05-Oct-18	19:20:24	18100513	CS3V2	
13	05-Oct-18	20:13:45	18100514	ISCV2	
14	05-Oct-18	21:03:54	18100515	18I0285-05	
15	05-Oct-18	21:52:26	18100516	18I0285-06	
16	05-Oct-18	22:41:10	18100517	18I0285-37	
17	05-Oct-18	23:29:44	18100518	18I0361-01	
18	06-Oct-18	00:18:14	18100519	18I0361-02	
19	06-Oct-18	01:06:46	18100520	18I0403-01	
20	06-Oct-18	01:55:14	18100521	18I0403-02	
21	06-Oct-18	02:43:47	18100522	18I0403-03	
22	06-Oct-18	03:32:16	18100523	18I0403-04	
23	06-Oct-18	04:20:48	18100524	CS3V3	
24	06-Oct-18	05:14:06	18100525	ISCV3	

Dataset: T:\Autospec\Processed Data Batch\181005QC.qld
Last Altered: Friday, October 05, 2018 13:52:25 Pacific Daylight Time
Printed: Monday, October 08, 2018 11:17:58 Pacific Daylight Time

10/8/18

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Pre modification peak	Sample:18100504, Compound:OD, RT:44.678	1
Peak modified	Sample:18100504, Compound:OD, RT:44.678	1
Pre modification peak	Sample:18100504, Compound:OD, RT:44.678	1
Peak modified	Sample:18100504, Compound:OD, RT:44.678	1
Peak deleted	Sample:18100504, Compound:TD, RT:26.223	1
Peak deleted	Sample:18100505, Compound:HD, RT:36.303	2
Peak deleted	Sample:18100505, Compound:HF, RT:35.257	2
Peak deleted	Sample:18100505, Compound:HF, RT:36.058	2
Peak deleted	Sample:18100505, Compound:HF, RT:37.027	2
Peak deleted	Sample:18100505, Compound:HPF, RT:38.830	2
Peak deleted	Sample:18100505, Compound:PD, RT:29.948	2
Peak deleted	Sample:18100505, Compound:PD, RT:31.818	2
Peak deleted	Sample:18100505, Compound:PF, RT:30.037	2
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\181005QC.qld'	

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:16:45 Pacific Daylight Time

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:18100506, Compound:HD, RT:33.599	1
Pre modification peak	Sample:18100506, Compound:PD, RT:28.668	1
Peak modified	Sample:18100506, Compound:PD, RT:28.668	1
Pre modification peak	Sample:18100506, Compound:PD, RT:30.304	1
Peak modified	Sample:18100506, Compound:PD, RT:30.304	1
Pre modification peak	Sample:18100506, Compound:PF, RT:28.323	1
Peak modified	Sample:18100506, Compound:PF, RT:28.323	1
Pre modification peak	Sample:18100506, Compound:PF, RT:29.425	1
Peak modified	Sample:18100506, Compound:PF, RT:29.425	1
Peak deleted	Sample:18100506, Compound:PP, RT:26.917	1
Peak deleted	Sample:18100506, Compound:PP, RT:27.597	1
Peak deleted	Sample:18100506, Compound:TD, RT:26.374	1
Pre modification peak	Sample:18100506, Compound:TD, RT:26.781	1
Peak modified	Sample:18100506, Compound:TD, RT:26.781	1
Peak deleted	Sample:18100506, Compound:TF, RT:23.065	1
Peak deleted	Sample:18100506, Compound:TF, RT:23.110	1
Pre modification peak	Sample:18100506, Compound:TF, RT:23.851	1
Peak modified	Sample:18100506, Compound:TF, RT:23.851	1
Pre modification peak	Sample:18100506, Compound:TF, RT:24.017	1
Peak modified	Sample:18100506, Compound:TF, RT:24.017	1
Peak deleted	Sample:18100506, Compound:TF, RT:27.008	1
Pre modification peak	Sample:18100507, Compound:HD, RT:35.038	2
Peak modified	Sample:18100507, Compound:HD, RT:35.038	2
Peak deleted	Sample:18100507, Compound:HPD, RT:39.146	2
Pre modification peak	Sample:18100507, Compound:PD, RT:28.627	2
Peak modified	Sample:18100507, Compound:PD, RT:28.627	2
Pre modification peak	Sample:18100507, Compound:PD, RT:28.649	2
Peak modified	Sample:18100507, Compound:PD, RT:28.649	2
Pre modification peak	Sample:18100507, Compound:PF, RT:28.572	2
Peak modified	Sample:18100507, Compound:PF, RT:28.572	2
Peak deleted	Sample:18100507, Compound:PF, RT:29.384	2
Peak deleted	Sample:18100507, Compound:PF, RT:29.473	2
Peak deleted	Sample:18100507, Compound:PF, RT:30.831	2
Peak deleted	Sample:18100507, Compound:PF, RT:31.098	2
Peak deleted	Sample:18100507, Compound:TD, RT:24.349	2
Peak deleted	Sample:18100507, Compound:TD, RT:26.237	2
Pre modification peak	Sample:18100507, Compound:TF, RT:23.820	2
Peak modified	Sample:18100507, Compound:TF, RT:23.820	2
Peak deleted	Sample:18100507, Compound:TF, RT:25.074	2
Peak deleted	Sample:18100507, Compound:TF, RT:25.346	2
Peak deleted	Sample:18100507, Compound:TF, RT:25.709	2
Peak deleted	Sample:18100508, Compound:HD, RT:33.587	3
Pre modification peak	Sample:18100508, Compound:HD, RT:35.045	3
Peak modified	Sample:18100508, Compound:HD, RT:35.045	3
Peak added	Sample:18100508, Compound:HF, RT:35.836	3
Peak added	Sample:18100508, Compound:HF, RT:35.858	3
Pre modification peak	Sample:18100508, Compound:HF, RT:35.869	3
Peak modified	Sample:18100508, Compound:HF, RT:35.869	3
Pre modification peak	Sample:18100508, Compound:HF, RT:36.804	3
Peak modified	Sample:18100508, Compound:HF, RT:36.804	3
Peak deleted	Sample:18100508, Compound:HF, RT:36.848	3

Event	Details	Sample ID
Pre modification peak	Sample:18100508, Compound:PD, RT:28.668	3
Peak modified	Sample:18100508, Compound:PD, RT:28.668	3
Pre modification peak	Sample:18100508, Compound:PD, RT:30.693	3
Peak modified	Sample:18100508, Compound:PD, RT:30.693	3
Peak deleted	Sample:18100508, Compound:PF, RT:28.345	3
Peak deleted	Sample:18100508, Compound:PF, RT:28.389	3
Peak deleted	Sample:18100508, Compound:TD, RT:24.545	3
Peak deleted	Sample:18100508, Compound:TD, RT:25.210	3
Peak deleted	Sample:18100508, Compound:TF, RT:23.246	3
Pre modification peak	Sample:18100508, Compound:TF, RT:23.337	3
Peak modified	Sample:18100508, Compound:TF, RT:23.337	3
Pre modification peak	Sample:18100508, Compound:TF, RT:23.352	3
Peak modified	Sample:18100508, Compound:TF, RT:23.352	3
Peak deleted	Sample:18100508, Compound:TF, RT:23.836	3
Peak deleted	Sample:18100508, Compound:TF, RT:24.002	3
Pre modification peak	Sample:18100508, Compound:TF, RT:25.815	3
Peak modified	Sample:18100508, Compound:TF, RT:25.815	3
Peak deleted	Sample:18100509, Compound:HD, RT:33.576	4
Pre modification peak	Sample:18100509, Compound:HF, RT:33.053	4
Peak modified	Sample:18100509, Compound:HF, RT:33.053	4
Pre modification peak	Sample:18100509, Compound:HF, RT:34.800	4
Peak modified	Sample:18100509, Compound:HF, RT:34.800	4
Pre modification peak	Sample:18100509, Compound:HF, RT:34.800	4
Peak modified	Sample:18100509, Compound:HF, RT:34.800	4
Pre modification peak	Sample:18100509, Compound:PD, RT:28.623	4
Peak modified	Sample:18100509, Compound:PD, RT:28.623	4
Pre modification peak	Sample:18100509, Compound:PF, RT:28.590	4
Peak modified	Sample:18100509, Compound:PF, RT:28.590	4
Peak deleted	Sample:18100509, Compound:PF, RT:29.447	4
Peak deleted	Sample:18100509, Compound:PF, RT:30.838	4
Peak deleted	Sample:18100509, Compound:PF, RT:31.094	4
Peak deleted	Sample:18100509, Compound:TD, RT:24.349	4
Peak deleted	Sample:18100509, Compound:TD, RT:25.210	4
Peak deleted	Sample:18100509, Compound:TD, RT:26.238	4
Peak deleted	Sample:18100509, Compound:TF, RT:22.340	4
Peak deleted	Sample:18100509, Compound:TF, RT:26.993	4
Peak deleted	Sample:18100510, Compound:HD, RT:33.610	5
Pre modification peak	Sample:18100510, Compound:HF, RT:34.968	5
Peak modified	Sample:18100510, Compound:HF, RT:34.968	5
Pre modification peak	Sample:18100510, Compound:HF, RT:35.947	5
Peak modified	Sample:18100510, Compound:HF, RT:35.947	5
Pre modification peak	Sample:18100510, Compound:HF, RT:35.958	5
Peak modified	Sample:18100510, Compound:HF, RT:35.958	5
Pre modification peak	Sample:18100510, Compound:PD, RT:28.746	5
Peak modified	Sample:18100510, Compound:PD, RT:28.746	5
Pre modification peak	Sample:18100510, Compound:PD, RT:30.315	5
Peak modified	Sample:18100510, Compound:PD, RT:30.315	5
Pre modification peak	Sample:18100510, Compound:PF, RT:28.612	5
Peak modified	Sample:18100510, Compound:PF, RT:28.612	5
Peak deleted	Sample:18100510, Compound:PF, RT:29.291	5
Pre modification peak	Sample:18100510, Compound:PF, RT:29.425	5
Peak modified	Sample:18100510, Compound:PF, RT:29.425	5
Peak deleted	Sample:18100510, Compound:PF, RT:30.616	5
Pre modification peak	Sample:18100510, Compound:PF, RT:30.983	5
Peak modified	Sample:18100510, Compound:PF, RT:30.983	5

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
 Printed: Monday, October 08, 2018 11:16:45 Pacific Daylight Time

Event	Details	Sample ID
Peak deleted	Sample:18100510, Compound:TD, RT:26.797	5
Pre modification peak	Sample:18100510, Compound:TF, RT:24.289	5
Peak modified	Sample:18100510, Compound:TF, RT:24.289	5
Peak deleted	Sample:18100511, Compound:HD, RT:34.504	6
Pre modification peak	Sample:18100511, Compound:HF, RT:33.268	6
Peak modified	Sample:18100511, Compound:HF, RT:33.268	6
Pre modification peak	Sample:18100511, Compound:HF, RT:36.797	6
Peak modified	Sample:18100511, Compound:HF, RT:36.797	6
Peak added	Sample:18100511, Compound:PD, RT:28.627	6
Peak added	Sample:18100511, Compound:PD, RT:28.638	6
Peak added	Sample:18100511, Compound:PD, RT:28.660	6
Pre modification peak	Sample:18100511, Compound:PD, RT:28.671	6
Peak modified	Sample:18100511, Compound:PD, RT:28.671	6
Peak added	Sample:18100511, Compound:PD, RT:28.671	6
Pre modification peak	Sample:18100511, Compound:PD, RT:30.296	6
Peak modified	Sample:18100511, Compound:PD, RT:30.296	6
Pre modification peak	Sample:18100511, Compound:PF, RT:28.460	6
Peak modified	Sample:18100511, Compound:PF, RT:28.460	6
Pre modification peak	Sample:18100511, Compound:PF, RT:29.406	6
Peak modified	Sample:18100511, Compound:PF, RT:29.406	6
Pre modification peak	Sample:18100511, Compound:PF, RT:29.406	6
Peak modified	Sample:18100511, Compound:PF, RT:29.406	6
Pre modification peak	Sample:18100511, Compound:PF, RT:30.085	6
Peak modified	Sample:18100511, Compound:PF, RT:30.085	6
Peak deleted	Sample:18100511, Compound:TD, RT:24.364	6
Peak deleted	Sample:18100511, Compound:TF, RT:22.249	6
Peak deleted	Sample:18100511, Compound:TF, RT:25.210	6
Peak deleted	Sample:18100511, Compound:TF, RT:27.008	6
Pre modification peak	Sample:18100515, Compound:HPF, RT:40.767	10
Peak modified	Sample:18100515, Compound:HPF, RT:40.767	10
Pre modification peak	Sample:18100515, Compound:OF, RT:44.943	10
Peak modified	Sample:18100515, Compound:OF, RT:44.943	10
Pre modification peak	Sample:18100515, Compound:PD, RT:28.657	10
Peak modified	Sample:18100515, Compound:PD, RT:28.657	10
Pre modification peak	Sample:18100515, Compound:PD, RT:31.361	10
Peak modified	Sample:18100515, Compound:PD, RT:31.361	10
Peak deleted	Sample:18100515, Compound:PF, RT:28.389	10
Pre modification peak	Sample:18100515, Compound:PF, RT:28.468	10
Peak modified	Sample:18100515, Compound:PF, RT:28.468	10
Pre modification peak	Sample:18100515, Compound:PF, RT:28.490	10
Peak modified	Sample:18100515, Compound:PF, RT:28.490	10
Peak deleted	Sample:18100515, Compound:PF, RT:28.813	10
Peak deleted	Sample:18100515, Compound:PF, RT:29.480	10
Peak deleted	Sample:18100515, Compound:PF, RT:30.983	10
Pre modification peak	Sample:18100515, Compound:TD, RT:26.253	10
Peak modified	Sample:18100515, Compound:TD, RT:26.253	10
Pre modification peak	Sample:18100515, Compound:TD, RT:26.253	10
Peak modified	Sample:18100515, Compound:TD, RT:26.253	10
Peak deleted	Sample:18100515, Compound:TF, RT:24.108	10
Peak deleted	Sample:18100515, Compound:TF, RT:25.226	10
Peak deleted	Sample:18100515, Compound:TF, RT:27.114	10
Pre modification peak	Sample:18100516, Compound:HD, RT:35.057	11
Peak modified	Sample:18100516, Compound:HD, RT:35.057	11
Pre modification peak	Sample:18100516, Compound:PD, RT:28.679	11
Peak modified	Sample:18100516, Compound:PD, RT:28.679	11

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
 Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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Event	Details	Sample ID
Pre modification peak	Sample:18100516, Compound:PD, RT:30.260	11
Peak modified	Sample:18100516, Compound:PD, RT:30.260	11
Pre modification peak	Sample:18100516, Compound:PD, RT:30.705	11
Peak modified	Sample:18100516, Compound:PD, RT:30.705	11
Pre modification peak	Sample:18100516, Compound:PD, RT:31.351	11
Peak modified	Sample:18100516, Compound:PD, RT:31.351	11
Peak added	Sample:18100516, Compound:PF, RT:29.759	11
Peak added	Sample:18100516, Compound:PF, RT:29.759	11
Peak modified	Sample:18100516, Compound:PF, RT:29.759	11
Pre modification peak	Sample:18100516, Compound:PF, RT:30.839	11
Peak modified	Sample:18100516, Compound:PF, RT:30.839	11
Pre modification peak	Sample:18100516, Compound:TD, RT:24.561	11
Peak modified	Sample:18100516, Compound:TD, RT:24.561	11
Peak deleted	Sample:18100516, Compound:TF, RT:25.090	11
Pre modification peak	Sample:18100517, Compound:HF, RT:35.858	12
Peak modified	Sample:18100517, Compound:HF, RT:35.858	12
Pre modification peak	Sample:18100517, Compound:PD, RT:28.657	12
Peak modified	Sample:18100517, Compound:PD, RT:28.657	12
Peak added	Sample:18100517, Compound:PD, RT:31.328	12
Peak modified	Sample:18100517, Compound:PD, RT:31.328	12
Peak added	Sample:18100517, Compound:PD, RT:31.350	12
Peak modified	Sample:18100517, Compound:PD, RT:31.350	12
Pre modification peak	Sample:18100517, Compound:PF, RT:28.646	12
Peak modified	Sample:18100517, Compound:PF, RT:28.646	12
Peak deleted	Sample:18100517, Compound:TD, RT:26.359	12
Peak deleted	Sample:18100517, Compound:TF, RT:24.077	12
Peak deleted	Sample:18100517, Compound:TF, RT:25.211	12
Peak deleted	Sample:18100517, Compound:TF, RT:26.993	12
Peak deleted	Sample:18100518, Compound:HD, RT:33.591	13
Peak deleted	Sample:18100518, Compound:HD, RT:36.707	13
Peak deleted	Sample:18100518, Compound:HF, RT:36.496	13
Peak deleted	Sample:18100518, Compound:HPF, RT:39.568	13
Pre modification peak	Sample:18100518, Compound:PD, RT:30.285	13
Peak modified	Sample:18100518, Compound:PD, RT:30.285	13
Pre modification peak	Sample:18100518, Compound:PD, RT:30.775	13
Peak modified	Sample:18100518, Compound:PD, RT:30.775	13
Pre modification peak	Sample:18100518, Compound:TD, RT:23.699	13
Peak modified	Sample:18100518, Compound:TD, RT:23.699	13
Peak deleted	Sample:18100518, Compound:TF, RT:26.117	13
Peak deleted	Sample:18100519, Compound:HD, RT:33.610	14
Peak added	Sample:18100519, Compound:PD, RT:30.282	14
Peak added	Sample:18100519, Compound:PD, RT:30.282	14
Pre modification peak	Sample:18100519, Compound:PD, RT:30.315	14
Peak modified	Sample:18100519, Compound:PD, RT:30.315	14
Pre modification peak	Sample:18100519, Compound:PF, RT:29.414	14
Peak modified	Sample:18100519, Compound:PF, RT:29.414	14
Peak deleted	Sample:18100519, Compound:TD, RT:26.872	14
Peak deleted	Sample:18100519, Compound:TF, RT:22.566	14
Peak deleted	Sample:18100519, Compound:TF, RT:22.687	14
Pre modification peak	Sample:18100519, Compound:TF, RT:25.437	14
Peak modified	Sample:18100519, Compound:TF, RT:25.437	14
Peak deleted	Sample:18100519, Compound:TF, RT:26.132	14
Peak deleted	Sample:18100519, Compound:TF, RT:27.205	14
Peak deleted	Sample:18100520, Compound:HD, RT:33.588	15
Peak deleted	Sample:18100520, Compound:HF, RT:35.301	15

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
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Event	Details	Sample ID
Pre modification peak	Sample:18100520, Compound:HF, RT:35.836	15
Peak modified	Sample:18100520, Compound:HF, RT:35.836	15
Peak added	Sample:18100520, Compound:HF, RT:35.836	15
Peak added	Sample:18100520, Compound:HF, RT:35.847	15
Peak added	Sample:18100520, Compound:HF, RT:35.869	15
Peak added	Sample:18100520, Compound:HF, RT:35.869	15
Peak deleted	Sample:18100520, Compound:HPF, RT:38.974	15
Pre modification peak	Sample:18100520, Compound:PD, RT:28.668	15
Peak modified	Sample:18100520, Compound:PD, RT:28.668	15
Peak deleted	Sample:18100520, Compound:PD, RT:31.751	15
Peak deleted	Sample:18100520, Compound:PF, RT:28.501	15
Pre modification peak	Sample:18100520, Compound:PF, RT:29.403	15
Peak modified	Sample:18100520, Compound:PF, RT:29.403	15
Pre modification peak	Sample:18100520, Compound:PF, RT:30.949	15
Peak modified	Sample:18100520, Compound:PF, RT:30.949	15
Peak deleted	Sample:18100520, Compound:TD, RT:24.364	15
Peak deleted	Sample:18100520, Compound:TD, RT:25.211	15
Pre modification peak	Sample:18100520, Compound:TF, RT:25.105	15
Peak modified	Sample:18100520, Compound:TF, RT:25.105	15
Peak deleted	Sample:18100520, Compound:TF, RT:25.754	15
Peak deleted	Sample:18100521, Compound:HD, RT:33.602	16
Pre modification peak	Sample:18100521, Compound:HF, RT:35.817	16
Peak modified	Sample:18100521, Compound:HF, RT:35.817	16
Pre modification peak	Sample:18100521, Compound:HF, RT:36.785	16
Peak modified	Sample:18100521, Compound:HF, RT:36.785	16
Peak deleted	Sample:18100521, Compound:PF, RT:28.315	16
Peak deleted	Sample:18100521, Compound:PF, RT:28.493	16
Pre modification peak	Sample:18100521, Compound:PF, RT:31.098	16
Peak modified	Sample:18100521, Compound:PF, RT:31.098	16
Peak deleted	Sample:18100521, Compound:TF, RT:25.089	16
Peak deleted	Sample:18100521, Compound:TF, RT:25.376	16
Peak deleted	Sample:18100522, Compound:HD, RT:33.588	17
Peak added	Sample:18100522, Compound:HF, RT:36.793	17
Peak added	Sample:18100522, Compound:HF, RT:36.805	17
Peak deleted	Sample:18100522, Compound:HF, RT:36.849	17
Peak deleted	Sample:18100522, Compound:HPF, RT:40.578	17
Pre modification peak	Sample:18100522, Compound:PD, RT:30.260	17
Peak modified	Sample:18100522, Compound:PD, RT:30.260	17
Peak deleted	Sample:18100522, Compound:PD, RT:31.751	17
Peak deleted	Sample:18100522, Compound:PF, RT:28.501	17
Peak deleted	Sample:18100522, Compound:PF, RT:29.647	17
Peak deleted	Sample:18100522, Compound:TD, RT:25.211	17
Peak deleted	Sample:18100522, Compound:TD, RT:26.238	17
Peak deleted	Sample:18100522, Compound:TF, RT:22.340	17
Peak deleted	Sample:18100522, Compound:TF, RT:22.582	17
Pre modification peak	Sample:18100522, Compound:TF, RT:23.125	17
Peak modified	Sample:18100522, Compound:TF, RT:23.125	17
Peak deleted	Sample:18100522, Compound:TF, RT:23.443	17
Peak deleted	Sample:18100522, Compound:TF, RT:23.820	17
Pre modification peak	Sample:18100522, Compound:TF, RT:24.259	17
Peak modified	Sample:18100522, Compound:TF, RT:24.259	17
Peak deleted	Sample:18100522, Compound:TF, RT:25.724	17
Peak deleted	Sample:18100522, Compound:TF, RT:27.039	17
Pre modification peak	Sample:18100523, Compound:PD, RT:28.627	18
Peak modified	Sample:18100523, Compound:PD, RT:28.627	18

Dataset: T:\Autospec\Processed Data Batch\181005D.qld
Last Altered: Monday, October 08, 2018 11:15:29 Pacific Daylight Time
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Event	Details	Sample ID
Peak deleted	Sample:18100523, Compound:PP, RT:26.933	18
Peak deleted	Sample:18100523, Compound:TF, RT:22.219	18
Peak deleted	Sample:18100523, Compound:TF, RT:22.581	18
Pre modification peak	Sample:18100523, Compound:TF, RT:25.407	18
Peak modified	Sample:18100523, Compound:TF, RT:25.407	18
Peak deleted	Sample:18100523, Compound:TF, RT:26.857	18
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\181005D.qld'	
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\181005D.qld'	
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\181005D.qld'	



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGH0285</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SGH0285-SCV1</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18082011</u>	Analyzed:	<u>08/20/18 21:38</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	99.7	0 - 200	25.6033	25.61325	-0.0099	N/A	
13C12-2,3,7,8-TCDD	100.00	80.4	0 - 200	26.238	26.25032	-0.0123	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	104	0 - 200	29.7587	29.76655	-0.0078	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	111	0 - 200	31.1055	31.11333	-0.0078	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	104	0 - 200	31.3615	31.36562	-0.0041	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	103	0 - 200	34.7898	34.79387	-0.0041	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	106	0 - 200	34.9347	34.94407	-0.0094	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	104	0 - 200	35.8473	35.86233	-0.0150	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	103	0 - 200	36.8047	36.81397	-0.0093	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	102	0 - 200	35.9698	35.9792	-0.0094	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	103	0 - 200	36.0812	36.0905	-0.0093	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	103	0 - 200	38.5412	38.5448	-0.0036	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	0 - 200	40.7452	40.75987	-0.0147	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	98.9	0 - 200	40.0105	40.01963	-0.0091	N/A	
13C12-OCDD	200.00	100	0 - 200	44.6785	44.68883	-0.0103	N/A	
37C14-2,3,7,8-TCDD	10.000	101	0 - 200	26.2682	26.27047	-0.0023	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGI0436</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SGI0436-ICV1</u>	Calibration:	<u>BH00058</u>
File ID:	<u>18092702A</u>	Analyzed:	<u>09/27/18 14:38</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	111	71 - 129	25.6032		25.6032	N/A	
13C12-2,3,7,8-TCDD	100.00	100	82 - 118	26.2378		26.2378	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	115	76 - 124	29.7477		29.7477	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	114	77 - 123	31.0943		31.0943	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	106	62 - 138	31.3503		31.3503	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	105	76 - 124	34.7788		34.7788	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	108	70 - 130	34.9235		34.9235	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	105	73 - 127	35.8473		35.8473	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	103	74 - 126	36.8047		36.8047	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	103	85 - 115	35.9698		35.9698	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	105	85 - 115	36.0812		36.0812	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	120	78 - 129	38.541		38.5410	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	124	77 - 129	40.7562		40.7562	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	112	82 - 118	40.0103		40.0103	N/A	
13C12-OCDD	200.00	124	48 - 152	44.6873		44.6873	N/A	
37C14-2,3,7,8-TCDD	10.000	102	79 - 121	26.2528		26.2528	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGI0436</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BGI0677-BLK2</u>	Calibration:	<u>BH00058</u>
File ID:	<u>18092704A</u>	Analyzed:	<u>09/27/18 16:15</u>

Surrogate Compound	Spike Level pg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	2000.0	102	24 - 169	25.588		25.5880	N/A	
13C12-2,3,7,8-TCDD	2000.0	93.1	25 - 164	26.2227		26.2227	N/A	
13C12-1,2,3,7,8-PeCDF	2000.0	94.4	24 - 185	29.7402		29.7402	N/A	
13C12-2,3,4,7,8-PeCDF	2000.0	91.7	21 - 178	31.0868		31.0868	N/A	
13C12-1,2,3,7,8-PeCDD	2000.0	86.2	25 - 181	31.3428		31.3428	N/A	
13C12-1,2,3,4,7,8-HxCDF	2000.0	109	26 - 152	34.7712		34.7712	N/A	
13C12-1,2,3,6,7,8-HxCDF	2000.0	112	26 - 123	34.9158		34.9158	N/A	
13C12-2,3,4,6,7,8-HxCDF	2000.0	104	28 - 136	35.8508		35.8508	N/A	
13C12-1,2,3,7,8,9-HxCDF	2000.0	92.5	29 - 147	36.797		36.7970	N/A	
13C12-1,2,3,4,7,8-HxCDD	2000.0	105	32 - 141	35.9622		35.9622	N/A	
13C12-1,2,3,6,7,8-HxCDD	2000.0	108	28 - 130	36.0735		36.0735	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	2000.0	102	28 - 143	38.5333		38.5333	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	2000.0	93.0	26 - 138	40.7483		40.7483	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	2000.0	92.3	23 - 140	40.0138		40.0138	N/A	
13C12-OCDD	4000.0	66.7	17 - 157	44.6818		44.6818	N/A	
37C14-2,3,7,8-TCDD	40.000	109	35 - 197	26.2377		26.2377	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGI0436</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BGI0677-BS2</u>	Calibration:	<u>BH00058</u>
File ID:	<u>18092705A</u>	Analyzed:	<u>09/27/18 17:03</u>

Surrogate Compound	Spike Level pg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	2000.0	95.2	24 - 169	25.588		25.5880	N/A	
13C12-2,3,7,8-TCDD	2000.0	84.7	25 - 164	26.2225		26.2225	N/A	
13C12-1,2,3,7,8-PeCDF	2000.0	85.2	24 - 185	29.74		29.7400	N/A	
13C12-2,3,4,7,8-PeCDF	2000.0	82.7	21 - 178	31.0868		31.0868	N/A	
13C12-1,2,3,7,8-PeCDD	2000.0	76.6	25 - 181	31.3428		31.3428	N/A	
13C12-1,2,3,4,7,8-HxCDF	2000.0	99.8	26 - 152	34.7708		34.7708	N/A	
13C12-1,2,3,6,7,8-HxCDF	2000.0	101	26 - 123	34.9155		34.9155	N/A	
13C12-2,3,4,6,7,8-HxCDF	2000.0	97.3	28 - 136	35.8393		35.8393	N/A	
13C12-1,2,3,7,8,9-HxCDF	2000.0	85.1	29 - 147	36.7965		36.7965	N/A	
13C12-1,2,3,4,7,8-HxCDD	2000.0	95.2	32 - 141	35.9618		35.9618	N/A	
13C12-1,2,3,6,7,8-HxCDD	2000.0	97.4	28 - 130	36.073		36.0730	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	2000.0	92.2	28 - 143	38.533		38.5330	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	2000.0	83.5	26 - 138	40.7482		40.7482	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	2000.0	83.1	23 - 140	40.0135		40.0135	N/A	
13C12-OCDD	4000.0	58.0	17 - 157	44.672		44.6720	N/A	
37C14-2,3,7,8-TCDD	40.000	98.3	35 - 197	26.2377		26.2377	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGI0436</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BGI0677-DUP1</u>	Calibration:	<u>BH00058</u>
File ID:	<u>18092710</u>	Analyzed:	<u>09/27/18 21:06</u>

Surrogate Compound	Spike Level pg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	1923.1	96.0	24 - 169	25.588		25.5880	N/A	
13C12-2,3,7,8-TCDD	1923.1	87.5	25 - 164	26.2225		26.2225	N/A	
13C12-1,2,3,7,8-PeCDF	1923.1	90.3	24 - 185	29.74		29.7400	N/A	
13C12-2,3,4,7,8-PeCDF	1923.1	86.8	21 - 178	31.0868		31.0868	N/A	
13C12-1,2,3,7,8-PeCDD	1923.1	81.0	25 - 181	31.3317		31.3317	N/A	
13C12-1,2,3,4,7,8-HxCDF	1923.1	99.2	26 - 152	34.771		34.7710	N/A	
13C12-1,2,3,6,7,8-HxCDF	1923.1	100	26 - 123	34.9157		34.9157	N/A	
13C12-2,3,4,6,7,8-HxCDF	1923.1	92.9	28 - 136	35.8397		35.8397	N/A	
13C12-1,2,3,7,8,9-HxCDF	1923.1	85.6	29 - 147	36.7968		36.7968	N/A	
13C12-1,2,3,4,7,8-HxCDD	1923.1	95.6	32 - 141	35.962		35.9620	N/A	
13C12-1,2,3,6,7,8-HxCDD	1923.1	97.1	28 - 130	36.0733		36.0733	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	1923.1	93.0	28 - 143	38.5332		38.5332	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	1923.1	82.9	26 - 138	40.7372		40.7372	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	1923.1	86.2	23 - 140	40.0027		40.0027	N/A	
13C12-OCDD	3846.2	61.2	17 - 157	44.6727		44.6727	N/A	
37C14-2,3,7,8-TCDD	40.000	109	35 - 197	26.2377		26.2377	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGI0436</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>18I0285-38</u>	Calibration:	<u>BH00058</u>
File ID:	<u>18092712</u>	Analyzed:	<u>09/27/18 22:43</u>

Surrogate Compound	Spike Level pg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	1860.5	89.4	24 - 169	25.5877		25.5877	N/A	
13C12-2,3,7,8-TCDD	1860.5	81.1	25 - 164	26.2072		26.2072	N/A	
13C12-1,2,3,7,8-PeCDF	1860.5	79.3	24 - 185	29.7397		29.7397	N/A	
13C12-2,3,4,7,8-PeCDF	1860.5	77.8	21 - 178	31.0865		31.0865	N/A	
13C12-1,2,3,7,8-PeCDD	1860.5	71.2	25 - 181	31.3313		31.3313	N/A	
13C12-1,2,3,4,7,8-HxCDF	1860.5	90.9	26 - 152	34.7707		34.7707	N/A	
13C12-1,2,3,6,7,8-HxCDF	1860.5	92.9	26 - 123	34.9152		34.9152	N/A	
13C12-2,3,4,6,7,8-HxCDF	1860.5	89.1	28 - 136	35.839		35.8390	N/A	
13C12-1,2,3,7,8,9-HxCDF	1860.5	75.9	29 - 147	36.7963		36.7963	N/A	
13C12-1,2,3,4,7,8-HxCDD	1860.5	88.2	32 - 141	35.9503		35.9503	N/A	
13C12-1,2,3,6,7,8-HxCDD	1860.5	90.4	28 - 130	36.0617		36.0617	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	1860.5	79.6	28 - 143	38.5213		38.5213	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	1860.5	67.7	26 - 138	40.7363		40.7363	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	1860.5	71.4	23 - 140	40.0017		40.0017	N/A	
13C12-OCDD	3720.9	46.2	17 - 157	44.671		44.6710	N/A	
37C14-2,3,7,8-TCDD	40.000	101	35 - 197	26.2373		26.2373	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SGJ0093-ICV1</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18100502</u>	Analyzed:	<u>10/05/18 10:18</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	104	71 - 129	25.6032	25.61325	-0.0100	N/A	
13C12-2,3,7,8-TCDD	100.00	97.8	82 - 118	26.2227	26.25032	-0.0276	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	110	76 - 124	29.7475	29.76655	-0.0191	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	109	77 - 123	31.0943	31.11333	-0.0190	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	103	62 - 138	31.3503	31.36562	-0.0153	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	105	76 - 124	34.7785	34.79387	-0.0154	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	110	70 - 130	34.9233	34.94407	-0.0208	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	107	73 - 127	35.8472	35.86233	-0.0151	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	102	74 - 126	36.8042	36.81397	-0.0098	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	104	85 - 115	35.9695	35.9792	-0.0097	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	110	85 - 115	36.0808	36.0905	-0.0097	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	120	78 - 122	38.5405	38.5448	-0.0043	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	117	77 - 123	40.7555	40.75987	-0.0044	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	109	82 - 118	40.0207	40.01963	0.0011	N/A	
13C12-OCDD	200.00	115	48 - 152	44.6958	44.68883	0.0070	N/A	
37C14-2,3,7,8-TCDD	10.000	99.6	0 - 200	26.2528	26.27047	-0.0177	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BGI0793-BLK1</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18100504</u>	Analyzed:	<u>10/05/18 12:03</u>

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	104	24 - 169	25.573	25.61325	-0.0403	N/A	
13C12-2,3,7,8-TCDD	200.00	93.2	25 - 164	26.2077	26.25032	-0.0426	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	101	24 - 185	29.7253	29.76655	-0.0412	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	96.4	21 - 178	31.072	31.11333	-0.0413	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	90.5	25 - 181	31.317	31.36562	-0.0486	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	105	26 - 152	34.7562	34.79387	-0.0377	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	109	26 - 123	34.9008	34.94407	-0.0433	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	101	28 - 136	35.8248	35.86233	-0.0375	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	98.0	29 - 147	36.7932	36.81397	-0.0208	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	102	32 - 141	35.9473	35.9792	-0.0319	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	107	28 - 130	36.0585	36.0905	-0.0320	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	102	28 - 143	38.5183	38.5448	-0.0265	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	102	26 - 138	40.7333	40.75987	-0.0266	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	104	23 - 140	39.9987	40.01963	-0.0209	N/A	
13C12-OCDD	400.00	74.8	17 - 157	44.6685	44.68883	-0.0203	N/A	
37C14-2,3,7,8-TCDD	40.000	107	35 - 197	26.2228	26.27047	-0.0477	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BGI0793-BS1</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18100505</u>	Analyzed:	<u>10/05/18 12:52</u>

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	98.4	24 - 169	25.573	25.61325	-0.0403	N/A	
13C12-2,3,7,8-TCDD	200.00	86.7	25 - 164	26.2077	26.25032	-0.0426	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	90.5	24 - 185	29.7363	29.76655	-0.0302	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	87.1	21 - 178	31.083	31.11333	-0.0303	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	81.1	25 - 181	31.3278	31.36562	-0.0378	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	96.8	26 - 152	34.7672	34.79387	-0.0267	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	102	26 - 123	34.9118	34.94407	-0.0323	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	92.7	28 - 136	35.8358	35.86233	-0.0265	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	85.5	29 - 147	36.793	36.81397	-0.0210	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	96.3	32 - 141	35.9582	35.9792	-0.0210	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	97.4	28 - 130	36.0695	36.0905	-0.0210	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	90.8	28 - 143	38.5293	38.5448	-0.0155	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	84.6	26 - 138	40.7443	40.75987	-0.0156	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	85.5	23 - 140	39.9987	40.01963	-0.0209	N/A	
13C12-OCDD	400.00	58.7	17 - 157	44.6775	44.68883	-0.0113	N/A	
37C14-2,3,7,8-TCDD	40.000	101	35 - 197	26.2227	26.27047	-0.0478	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BGI0793-SRM1</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18100506</u>	Analyzed:	<u>10/05/18 13:40</u>

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	269.18	98.4	24 - 169	25.588	25.61325	-0.0252	N/A	
13C12-2,3,7,8-TCDD	269.18	91.2	25 - 164	26.2225	26.25032	-0.0278	N/A	
13C12-1,2,3,7,8-PeCDF	269.18	97.9	24 - 185	29.7475	29.76655	-0.0191	N/A	
13C12-2,3,4,7,8-PeCDF	269.18	97.6	21 - 178	31.0942	31.11333	-0.0191	N/A	
13C12-1,2,3,7,8-PeCDD	269.18	91.9	25 - 181	31.3502	31.36562	-0.0154	N/A	
13C12-1,2,3,4,7,8-HxCDF	269.18	93.8	26 - 152	34.7895	34.79387	-0.0044	N/A	
13C12-1,2,3,6,7,8-HxCDF	269.18	89.7	26 - 123	34.9342	34.94407	-0.0099	N/A	
13C12-2,3,4,6,7,8-HxCDF	269.18	74.6	28 - 136	35.8692	35.86233	0.0069	N/A	
13C12-1,2,3,7,8,9-HxCDF	269.18	79.5	29 - 147	36.8152	36.81397	0.0012	N/A	
13C12-1,2,3,4,7,8-HxCDD	269.18	91.0	32 - 141	35.9915	35.9792	0.0123	N/A	
13C12-1,2,3,6,7,8-HxCDD	269.18	98.5	28 - 130	36.1028	36.0905	0.0123	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	269.18	89.4	28 - 143	38.5515	38.5448	0.0067	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	269.18	95.9	26 - 138	40.7665	40.75987	0.0066	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	269.18	91.0	23 - 140	40.032	40.01963	0.0124	N/A	
13C12-OCDD	538.36	67.8	17 - 157	44.714	44.68883	0.0252	N/A	
37C14-2,3,7,8-TCDD	40.000	105	35 - 197	26.2528	26.27047	-0.0177	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BGI0793-DUP1</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18100507</u>	Analyzed:	<u>10/05/18 14:29</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.62	90.9	24 - 169	25.5728	25.61325	-0.0404	N/A	
13C12-2,3,7,8-TCDD	199.62	82.1	25 - 164	26.2073	26.25032	-0.0430	N/A	
13C12-1,2,3,7,8-PeCDF	199.62	90.1	24 - 185	29.729	29.76655	-0.0375	N/A	
13C12-2,3,4,7,8-PeCDF	199.62	89.8	21 - 178	31.0758	31.11333	-0.0375	N/A	
13C12-1,2,3,7,8-PeCDD	199.62	83.8	25 - 181	31.3318	31.36562	-0.0338	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.62	84.8	26 - 152	34.7602	34.79387	-0.0337	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.62	87.8	26 - 123	34.916	34.94407	-0.0281	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.62	83.1	28 - 136	35.8398	35.86233	-0.0225	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.62	84.5	29 - 147	36.797	36.81397	-0.0170	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.62	85.2	32 - 141	35.9623	35.9792	-0.0169	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.62	84.5	28 - 130	36.0735	36.0905	-0.0170	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.62	83.1	28 - 143	38.5333	38.5448	-0.0115	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.62	87.5	26 - 138	40.7372	40.75987	-0.0227	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.62	82.6	23 - 140	40.0027	40.01963	-0.0169	N/A	
13C12-OCDD	399.23	66.5	17 - 157	44.6817	44.68883	-0.0071	N/A	
37C14-2,3,7,8-TCDD	40.000	97.4	35 - 197	26.2375	26.27047	-0.0330	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>18I0285-01</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18I00509</u>	Analyzed:	<u>10/05/18 16:06</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.46	92.7	24 - 169	25.573	25.61325	-0.0403	N/A	
13C12-2,3,7,8-TCDD	199.46	86.1	25 - 164	26.2075	26.25032	-0.0428	N/A	
13C12-1,2,3,7,8-PeCDF	199.46	93.5	24 - 185	29.7252	29.76655	-0.0413	N/A	
13C12-2,3,4,7,8-PeCDF	199.46	91.8	21 - 178	31.083	31.11333	-0.0303	N/A	
13C12-1,2,3,7,8-PeCDD	199.46	87.4	25 - 181	31.3278	31.36562	-0.0378	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.46	89.3	26 - 152	34.7672	34.79387	-0.0267	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.46	91.9	26 - 123	34.9118	34.94407	-0.0323	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.46	88.0	28 - 136	35.8357	35.86233	-0.0266	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.46	89.5	29 - 147	36.793	36.81397	-0.0210	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.46	92.0	32 - 141	35.9582	35.9792	-0.0210	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.46	91.0	28 - 130	36.0695	36.0905	-0.0210	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.46	91.0	28 - 143	38.5183	38.5448	-0.0265	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.46	95.4	26 - 138	40.7333	40.75987	-0.0266	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.46	90.2	23 - 140	39.9988	40.01963	-0.0208	N/A	
13C12-OCDD	398.92	74.6	17 - 157	44.6777	44.68883	-0.0111	N/A	
37C14-2,3,7,8-TCDD	40.000	99.2	35 - 197	26.2225	26.27047	-0.0480	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>1810285-02</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18100510</u>	Analyzed:	<u>10/05/18 16:54</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.54	91.7	24 - 169	25.6033	25.61325	-0.0099	N/A	
13C12-2,3,7,8-TCDD	199.54	85.4	25 - 164	26.253	26.25032	0.0027	N/A	
13C12-1,2,3,7,8-PeCDF	199.54	91.1	24 - 185	29.7587	29.76655	-0.0078	N/A	
13C12-2,3,4,7,8-PeCDF	199.54	90.2	21 - 178	31.1278	31.11333	0.0145	N/A	
13C12-1,2,3,7,8-PeCDD	199.54	84.5	25 - 181	31.3615	31.36562	-0.0041	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.54	92.5	26 - 152	34.8232	34.79387	0.0293	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.54	66.1	26 - 123	34.9568	34.94407	0.0127	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.54	59.6	28 - 136	35.9363	35.86233	0.0740	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.54	43.1	29 - 147	36.8378	36.81397	0.0238	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.54	88.6	32 - 141	36.0477	35.9792	0.0685	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.54	90.7	28 - 130	36.1588	36.0905	0.0683	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.54	85.1	28 - 143	38.5633	38.5448	0.0185	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.54	87.3	26 - 138	40.767	40.75987	0.0071	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.54	82.7	23 - 140	40.0323	40.01963	0.0127	N/A	
13C12-OCDD	399.08	63.5	17 - 157	44.7147	44.68883	0.0259	N/A	
37C14-2,3,7,8-TCDD	40.000	101	35 - 197	26.268	26.27047	-0.0025	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>1810285-03</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18100511</u>	Analyzed:	<u>10/05/18 17:43</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	198.68	84.9	24 - 169	25.588	25.61325	-0.0252	N/A	
13C12-2,3,7,8-TCDD	198.68	76.2	25 - 164	26.2225	26.25032	-0.0278	N/A	
13C12-1,2,3,7,8-PeCDF	198.68	84.7	24 - 185	29.74	29.76655	-0.0266	N/A	
13C12-2,3,4,7,8-PeCDF	198.68	82.0	21 - 178	31.0867	31.11333	-0.0266	N/A	
13C12-1,2,3,7,8-PeCDD	198.68	76.2	25 - 181	31.3427	31.36562	-0.0229	N/A	
13C12-1,2,3,4,7,8-HxCDF	198.68	77.5	26 - 152	34.771	34.79387	-0.0229	N/A	
13C12-1,2,3,6,7,8-HxCDF	198.68	78.5	26 - 123	34.9268	34.94407	-0.0173	N/A	
13C12-2,3,4,6,7,8-HxCDF	198.68	76.7	28 - 136	35.8507	35.86233	-0.0116	N/A	
13C12-1,2,3,7,8,9-HxCDF	198.68	75.5	29 - 147	36.808	36.81397	-0.0060	N/A	
13C12-1,2,3,4,7,8-HxCDD	198.68	77.6	32 - 141	35.962	35.9792	-0.0172	N/A	
13C12-1,2,3,6,7,8-HxCDD	198.68	78.5	28 - 130	36.0733	36.0905	-0.0172	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	198.68	75.9	28 - 143	38.533	38.5448	-0.0118	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	198.68	78.7	26 - 138	40.748	40.75987	-0.0119	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	198.68	75.9	23 - 140	40.0135	40.01963	-0.0061	N/A	
13C12-OCDD	397.37	60.7	17 - 157	44.6903	44.68883	0.0015	N/A	
37C14-2,3,7,8-TCDD	40.000	87.8	35 - 197	26.2377	26.27047	-0.0328	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>18I0285-04</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18I00512</u>	Analyzed:	<u>10/05/18 18:31</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.23	88.8	24 - 169	25.5732	25.61325	-0.0401	N/A	
13C12-2,3,7,8-TCDD	199.23	79.3	25 - 164	26.2078	26.25032	-0.0425	N/A	
13C12-1,2,3,7,8-PeCDF	199.23	85.5	24 - 185	29.7367	29.76655	-0.0298	N/A	
13C12-2,3,4,7,8-PeCDF	199.23	84.3	21 - 178	31.0835	31.11333	-0.0298	N/A	
13C12-1,2,3,7,8-PeCDD	199.23	77.1	25 - 181	31.3283	31.36562	-0.0373	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.23	81.7	26 - 152	34.7678	34.79387	-0.0261	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.23	81.7	26 - 123	34.9125	34.94407	-0.0316	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.23	81.6	28 - 136	35.8477	35.86233	-0.0146	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.23	81.8	29 - 147	36.7937	36.81397	-0.0203	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.23	80.4	32 - 141	35.9588	35.9792	-0.0204	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.23	81.9	28 - 130	36.0702	36.0905	-0.0203	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.23	78.7	28 - 143	38.5302	38.5448	-0.0146	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.23	82.5	26 - 138	40.7453	40.75987	-0.0146	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.23	78.3	23 - 140	40.0107	40.01963	-0.0089	N/A	
13C12-OCDD	398.47	58.1	17 - 157	44.6788	44.68883	-0.0100	N/A	
37C14-2,3,7,8-TCDD	40.000	95.4	35 - 197	26.238	26.27047	-0.0325	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>1810285-05</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18100515</u>	Analyzed:	<u>10/05/18 21:03</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	198.18	89.4	24 - 169	25.588	25.61325	-0.0252	N/A	
13C12-2,3,7,8-TCDD	198.18	79.1	25 - 164	26.2227	26.25032	-0.0276	N/A	
13C12-1,2,3,7,8-PeCDF	198.18	81.6	24 - 185	29.7363	29.76655	-0.0302	N/A	
13C12-2,3,4,7,8-PeCDF	198.18	80.5	21 - 178	31.0942	31.11333	-0.0191	N/A	
13C12-1,2,3,7,8-PeCDD	198.18	72.8	25 - 181	31.339	31.36562	-0.0266	N/A	
13C12-1,2,3,4,7,8-HxCDF	198.18	83.6	26 - 152	34.7783	34.79387	-0.0156	N/A	
13C12-1,2,3,6,7,8-HxCDF	198.18	87.8	26 - 123	34.923	34.94407	-0.0211	N/A	
13C12-2,3,4,6,7,8-HxCDF	198.18	87.2	28 - 136	35.8468	35.86233	-0.0155	N/A	
13C12-1,2,3,7,8,9-HxCDF	198.18	85.6	29 - 147	36.8042	36.81397	-0.0098	N/A	
13C12-1,2,3,4,7,8-HxCDD	198.18	85.9	32 - 141	35.9693	35.9792	-0.0099	N/A	
13C12-1,2,3,6,7,8-HxCDD	198.18	86.5	28 - 130	36.0807	36.0905	-0.0098	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	198.18	83.0	28 - 143	38.5405	38.5448	-0.0043	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	198.18	84.4	26 - 138	40.7555	40.75987	-0.0044	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	198.18	80.1	23 - 140	40.0097	40.01963	-0.0099	N/A	
13C12-OCDD	396.37	63.9	17 - 157	44.6958	44.68883	0.0070	N/A	
37C14-2,3,7,8-TCDD	40.000	94.1	35 - 197	26.2378	26.27047	-0.0327	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>1810285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>1810285-06</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18100516</u>	Analyzed:	<u>10/05/18 21:52</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	198.89	111	24 - 169	25.5883	25.61325	-0.0250	N/A	
13C12-2,3,7,8-TCDD	198.89	99.1	25 - 164	26.2228	26.25032	-0.0275	N/A	
13C12-1,2,3,7,8-PeCDF	198.89	104	24 - 185	29.7367	29.76655	-0.0298	N/A	
13C12-2,3,4,7,8-PeCDF	198.89	99.6	21 - 178	31.0835	31.11333	-0.0298	N/A	
13C12-1,2,3,7,8-PeCDD	198.89	92.3	25 - 181	31.3395	31.36562	-0.0261	N/A	
13C12-1,2,3,4,7,8-HxCDF	198.89	105	26 - 152	34.768	34.79387	-0.0259	N/A	
13C12-1,2,3,6,7,8-HxCDF	198.89	107	26 - 123	34.9238	34.94407	-0.0203	N/A	
13C12-2,3,4,6,7,8-HxCDF	198.89	101	28 - 136	35.8477	35.86233	-0.0146	N/A	
13C12-1,2,3,7,8,9-HxCDF	198.89	104	29 - 147	36.8048	36.81397	-0.0092	N/A	
13C12-1,2,3,4,7,8-HxCDD	198.89	103	32 - 141	35.97	35.9792	-0.0092	N/A	
13C12-1,2,3,6,7,8-HxCDD	198.89	102	28 - 130	36.0813	36.0905	-0.0092	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	198.89	99.4	28 - 143	38.5302	38.5448	-0.0146	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	198.89	102	26 - 138	40.7452	40.75987	-0.0147	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	198.89	96.6	23 - 140	40.0105	40.01963	-0.0091	N/A	
13C12-OCDD	397.77	74.1	17 - 157	44.6875	44.68883	-0.0013	N/A	
37C14-2,3,7,8-TCDD	40.000	114	35 - 197	26.238	26.27047	-0.0325	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Sequence:	<u>SGJ0093</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>18I0285-37</u>	Calibration:	<u>BH00060</u>
File ID:	<u>18I00517</u>	Analyzed:	<u>10/05/18 22:41</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.71	102	24 - 169	25.573	25.61325	-0.0403	N/A	
13C12-2,3,7,8-TCDD	199.71	90.5	25 - 164	26.2075	26.25032	-0.0428	N/A	
13C12-1,2,3,7,8-PeCDF	199.71	93.9	24 - 185	29.7252	29.76655	-0.0413	N/A	
13C12-2,3,4,7,8-PeCDF	199.71	90.3	21 - 178	31.0718	31.11333	-0.0415	N/A	
13C12-1,2,3,7,8-PeCDD	199.71	85.5	25 - 181	31.328	31.36562	-0.0376	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.71	94.7	26 - 152	34.7562	34.79387	-0.0377	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.71	95.4	26 - 123	34.912	34.94407	-0.0321	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.71	91.1	28 - 136	35.836	35.86233	-0.0263	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.71	93.8	29 - 147	36.793	36.81397	-0.0210	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.71	93.6	32 - 141	35.9472	35.9792	-0.0320	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.71	95.7	28 - 130	36.0585	36.0905	-0.0320	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.71	92.0	28 - 143	38.5182	38.5448	-0.0266	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.71	90.3	26 - 138	40.733	40.75987	-0.0269	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.71	89.7	23 - 140	39.9983	40.01963	-0.0213	N/A	
13C12-OCDD	399.42	68.7	17 - 157	44.6678	44.68883	-0.0210	N/A	
37C14-2,3,7,8-TCDD	40.000	110	35 - 197	26.2227	26.27047	-0.0478	N/A	

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor OEA, LLC

Project: Port Gamble - OMMP LTM

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SMA1A-IT-0-10-Comp-180917 18I0285-01	09/17/18 15:10	09/19/18 17:00	10/02/18 16:00	15	365	10/05/18 16:06	3	365	
SMA1-ST-0-10-Comp-180917 18I0285-02	09/17/18 12:05	09/19/18 17:00	10/02/18 16:00	15	365	10/05/18 16:54	3	365	
SMA2A-IT-0-10-Comp-180919 18I0285-03	09/19/18 10:25	09/19/18 17:00	10/02/18 16:00	13	365	10/05/18 17:43	3	365	
SMA2A-ST-0-10-Comp-180918 18I0285-04	09/18/18 11:00	09/19/18 17:00	10/02/18 16:00	14	365	10/05/18 18:31	3	365	
SMA2B-IT-0-10-Comp-180918 18I0285-05	09/18/18 15:10	09/19/18 17:00	10/02/18 16:00	14	365	10/05/18 21:03	3	365	
SMA2B-ST-0-10-Comp-180918 18I0285-06	09/18/18 16:35	09/19/18 17:00	10/02/18 16:00	13	365	10/05/18 21:52	3	365	
SMA102B-ST-0-10-Comp-180918 18I0285-37	09/18/18 16:40	09/19/18 17:00	10/02/18 16:00	13	365	10/05/18 22:41	3	365	
PGLTM-RB-180919 18I0285-38	09/19/18 11:20	09/19/18 17:00	09/26/18 11:10	6	365	09/27/18 22:43	1	365	
Duplicate BGI0677-DUP1	09/19/18 11:20	09/19/18 17:00	09/26/18 11:10	6	365	09/27/18 21:06	1	365	
Duplicate BGI0793-DUP1	09/17/18 15:10	09/19/18 17:00	10/02/18 16:00	15	365	10/05/18 14:29	3	365	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor OEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Solid

Instrument: AUTOSPEC01

Analyte	MDL	RL	Units
2,3,7,8-TCDF	0.120	1.00	ng/kg
2,3,7,8-TCDD	0.170	1.00	ng/kg
1,2,3,7,8-PeCDF	0.690	1.00	ng/kg
2,3,4,7,8-PeCDF	0.570	1.00	ng/kg
1,2,3,7,8-PeCDD	0.500	1.00	ng/kg
1,2,3,4,7,8-HxCDF	0.810	1.00	ng/kg
1,2,3,6,7,8-HxCDF	0.660	1.00	ng/kg
2,3,4,6,7,8-HxCDF	0.680	1.00	ng/kg
1,2,3,7,8,9-HxCDF	0.590	1.00	ng/kg
1,2,3,4,7,8-HxCDD	0.540	1.00	ng/kg
1,2,3,6,7,8-HxCDD	0.560	1.00	ng/kg
1,2,3,7,8,9-HxCDD	0.890	1.00	ng/kg
1,2,3,4,6,7,8-HpCDF	1.00	1.00	ng/kg
1,2,3,4,7,8,9-HpCDF	0.880	1.00	ng/kg
1,2,3,4,6,7,8-HpCDD	1.20	2.50	ng/kg
OCDF	2.00	2.00	ng/kg
OCDD	2.70	10.0	ng/kg
Total TCDF		1.00	ng/kg
Total TCDD		1.00	ng/kg
Total PeCDF		1.00	ng/kg
Total PeCDD		1.00	ng/kg
Total HxCDF		1.00	ng/kg
Total HxCDD		1.00	ng/kg
Total HpCDF		1.00	ng/kg
Total HpCDD		1.00	ng/kg



METHOD DETECTION AND REPORTING LIMITS

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor OEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Water

Instrument: AUTOSPEC01

Analyte	MDL	RL	Units
2,3,7,8-TCDF	0.27	10.0	pg/L
2,3,7,8-TCDD	0.31	10.0	pg/L
1,2,3,7,8-PeCDF	1.34	10.0	pg/L
2,3,4,7,8-PeCDF	1.40	10.0	pg/L
1,2,3,7,8-PeCDD	1.41	10.0	pg/L
1,2,3,4,7,8-HxCDF	1.34	10.0	pg/L
1,2,3,6,7,8-HxCDF	1.38	10.0	pg/L
2,3,4,6,7,8-HxCDF	1.45	10.0	pg/L
1,2,3,7,8,9-HxCDF	1.25	10.0	pg/L
1,2,3,4,7,8-HxCDD	1.32	10.0	pg/L
1,2,3,6,7,8-HxCDD	1.43	10.0	pg/L
1,2,3,7,8,9-HxCDD	1.29	10.0	pg/L
1,2,3,4,6,7,8-HpCDF	1.28	10.0	pg/L
1,2,3,4,7,8,9-HpCDF	1.20	10.0	pg/L
1,2,3,4,6,7,8-HpCDD	0.98	10.0	pg/L
OCDF	2.59	20.0	pg/L
OCDD	3.14	20.0	pg/L
Total TCDF		10.0	pg/L
Total TCDD		10.0	pg/L
Total PeCDF		10.0	pg/L
Total PeCDD		10.0	pg/L
Total HxCDF		10.0	pg/L
Total HxCDD		10.0	pg/L
Total HpCDF		10.0	pg/L
Total HpCDD		10.0	pg/L



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020A UCT-KED

SMA1A-IT-0-10-Comp-180917

Total Metals

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-01 SDG: 18I0285
 Sampled: 09/17/18 15:10 Prepared: 10/08/18 09:49 File ID: XDT_m2181010-122
 % Solids: 79.39 Preparation: SWN EPA 3050B Analyzed: 10/10/18 20:30
 Batch: BGJ0277 Sequence: SGJ0179 Initial/Final: 1.034 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: BJ00029

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	0.10	20	0.04	0.12	J



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020A UCT-KED

SMA1-ST-0-10-Comp-180917

Total Metals

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-02 SDG: 18I0285
 Sampled: 09/17/18 12:05 Prepared: 10/08/18 09:49 File ID: XDT_m2181010-118
 % Solids: 49.28 Preparation: SWN EPA 3050B Analyzed: 10/10/18 20:11
 Batch: BGJ0277 Sequence: SGJ0179 Initial/Final: 1.017 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: BJ00029

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	0.55	20	0.06	0.20	



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020A UCT-KED

SMA2A-IT-0-10-Comp-180919

Total Metals

Laboratory: Analytical Resources, Inc.

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Sediment Laboratory ID: 18I0285-03 SDG: 18I0285

Sampled: 09/19/18 10:25 Prepared: 10/08/18 09:49 File ID: XDT_m2181010-119

% Solids: 83.61 Preparation: SWN EPA 3050B Analyzed: 10/10/18 20:16

Batch: BGJ0277 Sequence: SGJ0179 Initial/Final: 1.074 g Wet / 50 mL

Instrument: ICPMS2 Calibration: BJ00029

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	0.10	20	0.03	0.11	J



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020A UCT-KED

SMA2A-ST-0-10-Comp-180918

Total Metals

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-04 SDG: 18I0285
 Sampled: 09/18/18 11:00 Prepared: 10/08/18 09:49 File ID: XDT_m2181010-120
 % Solids: 76.51 Preparation: SWN EPA 3050B Analyzed: 10/10/18 20:21
 Batch: BGJ0277 Sequence: SGJ0179 Initial/Final: 1.05 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: BJ00029

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	0.13	20	0.04	0.12	



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020A UCT-KED

SMA2B-IT-0-10-Comp-180918

Total Metals

Laboratory: Analytical Resources, Inc.

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Sediment Laboratory ID: 18I0285-05 SDG: 18I0285

Sampled: 09/18/18 15:10 Prepared: 10/08/18 09:49 File ID: XDT_m2181010-121

% Solids: 79.59 Preparation: SWN EPA 3050B Analyzed: 10/10/18 20:26

Batch: BGJ0277 Sequence: SGJ0179 Initial/Final: 1.032 g Wet / 50 mL

Instrument: ICPMS2 Calibration: BJ00029

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	0.10	20	0.04	0.12	J



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020A UCT-KED

SMA2B-ST-0-10-Comp-180918

Total Metals

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-06 SDG: 18I0285
 Sampled: 09/18/18 16:35 Prepared: 10/08/18 09:49 File ID: XDT_m2181010-128
 % Solids: 78.01 Preparation: SWN EPA 3050B Analyzed: 10/10/18 21:03
 Batch: BGJ0277 Sequence: SGJ0179 Initial/Final: 1.049 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: BJ00029

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	0.09	20	0.04	0.12	J



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020A UCT-KED

SMA102B-ST-0-10-Comp-180918

Total Metals

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Project: Port Gamble - OMMP LTM
 Matrix: Sediment Laboratory ID: 18I0285-37 SDG: 18I0285
 Sampled: 09/18/18 16:40 Prepared: 10/08/18 09:49 File ID: XDT_m2181010-129
 % Solids: 81.95 Preparation: SWN EPA 3050B Analyzed: 10/10/18 21:08
 Batch: BGJ0277 Sequence: SGJ0179 Initial/Final: 1.06 g Wet / 50 mL
 Instrument: ICPMS2 Calibration: BJ00029

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	0.07	20	0.03	0.12	J



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020A UCT-KED
Total Metals

PGLTM-RB-180919

Laboratory: Analytical Resources, Inc.

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Water Laboratory ID: 18I0285-38 SDG: 18I0285

Sampled: 09/19/18 11:20 Prepared: 09/21/18 04:52 File ID: XDT_m2180921-112

% Solids: 0.00 Preparation: REN EPA 600/4-79-020 4.1.4 HNO3 Analyzed: 09/21/18 19:44
matrix

Batch: BGI0575 Sequence: SGI0356 Initial/Final: 25 mL / 25 mL

Instrument: ICPMS2 Calibration: BI00061

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	0.100	1	0.0300	0.100	U



PREPARATION BATCH SUMMARY

EPA 6020A UCT-KED

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Batch: BGJ0277 Batch Matrix: Solid

Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SMA1A-IT-0-10-Comp-180917	18I0285-01	XDT_m2181010-122	10/08/18 09:49	SRM
SMA1-ST-0-10-Comp-180917	18I0285-02	XDT_m2181010-118	10/08/18 09:49	SRM
SMA2A-IT-0-10-Comp-180919	18I0285-03	XDT_m2181010-119	10/08/18 09:49	SRM
SMA2A-ST-0-10-Comp-180918	18I0285-04	XDT_m2181010-120	10/08/18 09:49	SRM
SMA2B-IT-0-10-Comp-180918	18I0285-05	XDT_m2181010-121	10/08/18 09:49	SRM
SMA2B-ST-0-10-Comp-180918	18I0285-06	XDT_m2181010-128	10/08/18 09:49	SRM
SMA102B-ST-0-10-Comp-180918	18I0285-37	XDT_m2181010-129	10/08/18 09:49	SRM
Blank	BGJ0277-BLK2	XDT_m2181010-116	10/08/18 09:49	Added 10/11/2018 by TCH
LCS	BGJ0277-BS2	XDT_m2181010-117	10/08/18 09:49	Added 10/11/2018 by TCH
SMA1A-IT-0-10-Comp-180917	BGJ0277-DUP2	XDT_m2181010-123	10/08/18 09:49	Added 10/11/2018 by TCH
SMA1A-IT-0-10-Comp-180917	BGJ0277-MS2	XDT_m2181010-124	10/08/18 09:49	Added 10/11/2018 by TCH
Reference	BGJ0277-SRM2	XDT_m2181010-125	10/08/18 09:49	Added 10/11/2018 by TCH



Form I
METHOD BLANK DATA SHEET
EPA 6020A UCT-KED
Total Metals

Blank

Batch: BGI0575

Laboratory ID: BGI0575-BLK1

Prepared: 09/21/18 04:52

Matrix: Water

Preparation: REN EPA 600/4-79-020 4

Analyzed: 09/21/18 17:05

Sequence: SGI0356

Calibration: BI00061

Instrument: ICPMS2

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	ND	1	0.0300	0.100	U
7440-43-9	Cadmium-114	ND	1	0.0400	0.100	U



Form I
METHOD BLANK DATA SHEET
EPA 6020A UCT-KED
Total Metals

Blank

Batch: BGJ0277

Laboratory ID: BGJ0277-BLK2

Prepared: 10/08/18 09:49

Matrix: Solid

Preparation: SWN EPA 3050B

Analyzed: 10/10/18 20:01

Sequence: SGJ0179

Calibration: BJ00029

Instrument: ICPMS2

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium-111	ND	20	0.03	0.10	U
7440-43-9	Cadmium-114	ND	20	0.04	0.10	U



DUPLICATES
EPA 6020A UCT-KED
Total Metals

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Solid

Laboratory ID: BGJ0277-DUP2

Batch: BGJ0277

Lab Source ID: 18I0285-01

Preparation: SWN EPA 3050B

Initial/Final: 1.037 g / 50 mL

Source Sample Name: SMA1A-IT-0-10-Comp-180917

% Solids: 79.39

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/kg dry)	C	DUPLICATE CONCENTRATION (mg/kg dry)	C	RPD %	Q
Cadmium-111	20	0.10	J	0.09	J	6.50	

*: Values outside of QC limits

L: Analyte concentration is ≤ 5 times the reporting limit and the replicate control limit defaults to Dup = +/-RL instead of 20% RPD



INSTRUMENT BLANKS
EPA 6020A UCT-KED

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Instrument ID: ICPMS2

Calibration: BI00061

Sequence: SGI0356

Date Analyzed: 09/21/18 11:01

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SGI0356-IBL1	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SGI0356-IBL1	Cadmium-114	0.00500	0.04	0.100	ug/L	
SGI0356-ICB1	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SGI0356-ICB1	Cadmium-114	0.00200	0.04	0.100	ug/L	
SGI0356-CCB1	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SGI0356-CCB1	Cadmium-114	0.00300	0.04	0.100	ug/L	
SGI0356-IBL2	Cadmium-111	0.0150	0.03	0.100	ug/L	
SGI0356-IBL2	Cadmium-114	0.0230	0.04	0.100	ug/L	
SGI0356-IBL3	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SGI0356-IBL3	Cadmium-114	0.00700	0.04	0.100	ug/L	
SGI0356-IBL4	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SGI0356-IBL4	Cadmium-114	0.00400	0.04	0.100	ug/L	
SGI0356-IBL5	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SGI0356-IBL5	Cadmium-114	0.00400	0.04	0.100	ug/L	
SGI0356-IBL6	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SGI0356-IBL6	Cadmium-114	0.00600	0.04	0.100	ug/L	
SGI0356-CCB2	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SGI0356-CCB2	Cadmium-114	0.00500	0.04	0.100	ug/L	
SGI0356-IBL7	Cadmium-111	0.00100	0.03	0.100	ug/L	
SGI0356-IBL7	Cadmium-114	0.0120	0.04	0.100	ug/L	
SGI0356-IBL8	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SGI0356-IBL8	Cadmium-114	0.00200	0.04	0.100	ug/L	
SGI0356-IBL9	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SGI0356-IBL9	Cadmium-114	0.00200	0.04	0.100	ug/L	
SGI0356-IBLA	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SGI0356-IBLA	Cadmium-114	0.00300	0.04	0.100	ug/L	
SGI0356-IBLB	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SGI0356-IBLB	Cadmium-114	0.00200	0.04	0.100	ug/L	
SGI0356-IBLC	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SGI0356-IBLC	Cadmium-114	0.00200	0.04	0.100	ug/L	
SGI0356-CCB3	Cadmium-111	0.00600	0.03	0.100	ug/L	
SGI0356-CCB3	Cadmium-114	0.00100	0.04	0.100	ug/L	
SGI0356-IBLD	Cadmium-111	0.0300	0.03	0.100	ug/L	
SGI0356-IBLD	Cadmium-114	0.0340	0.04	0.100	ug/L	



INSTRUMENT BLANKS EPA 6020A UCT-KED

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Instrument ID: ICPMS2

Calibration: BI00061

Sequence: SGI0356

Date Analyzed: 09/21/18 14:18

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SGI0356-CCB4	Cadmium-111	0.00700	0.03	0.100	ug/L	
SGI0356-CCB4	Cadmium-114	0.00500	0.04	0.100	ug/L	
SGI0356-CCB5	Cadmium-111	0.00500	0.03	0.100	ug/L	
SGI0356-CCB5	Cadmium-114	0.00	0.04	0.100	ug/L	
SGI0356-CCB6	Cadmium-111	0.00400	0.03	0.100	ug/L	
SGI0356-CCB6	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SGI0356-CCB7	Cadmium-111	0.0120	0.03	0.100	ug/L	
SGI0356-CCB7	Cadmium-114	0.00300	0.04	0.100	ug/L	
SGI0356-CCB8	Cadmium-111	0.00900	0.03	0.100	ug/L	
SGI0356-CCB8	Cadmium-114	0.00	0.04	0.100	ug/L	
SGI0356-CCB9	Cadmium-111	0.00500	0.03	0.100	ug/L	
SGI0356-CCB9	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SGI0356-CCBA	Cadmium-111	0.00400	0.03	0.100	ug/L	
SGI0356-CCBA	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SGI0356-CCBB	Cadmium-111	0.0140	0.03	0.100	ug/L	
SGI0356-CCBB	Cadmium-114	0.00100	0.04	0.100	ug/L	
SGI0356-CCBC	Cadmium-111	0.00200	0.03	0.100	ug/L	
SGI0356-CCBC	Cadmium-114	-0.00100	0.04	0.100	ug/L	



INSTRUMENT BLANKS
EPA 6020A UCT-KED

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Instrument ID: ICPMS2

Calibration: BJ00029

Sequence: SGJ0179

Date Analyzed: 10/10/18 10:20

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SGJ0179-IBL1	Cadmium-111	0.00200	0.03	0.100	ug/L	
SGJ0179-IBL1	Cadmium-114	0.00700	0.04	0.100	ug/L	
SGJ0179-ICB1	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SGJ0179-ICB1	Cadmium-114	0.00500	0.04	0.100	ug/L	
SGJ0179-CCB1	Cadmium-111	0.0260	0.03	0.100	ug/L	
SGJ0179-CCB1	Cadmium-114	0.0450	0.04	0.100	ug/L	
SGJ0179-IBL2	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SGJ0179-IBL2	Cadmium-114	0.00600	0.04	0.100	ug/L	
SGJ0179-IBL3	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SGJ0179-IBL3	Cadmium-114	0.00500	0.04	0.100	ug/L	
SGJ0179-CCB2	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SGJ0179-CCB2	Cadmium-114	0.00900	0.04	0.100	ug/L	
SGJ0179-CCB3	Cadmium-111	-0.0140	0.03	0.100	ug/L	
SGJ0179-CCB3	Cadmium-114	0.00300	0.04	0.100	ug/L	
SGJ0179-CCB4	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SGJ0179-CCB4	Cadmium-114	0.00	0.04	0.100	ug/L	
SGJ0179-CCB5	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SGJ0179-CCB5	Cadmium-114	0.00500	0.04	0.100	ug/L	
SGJ0179-CCB6	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SGJ0179-CCB6	Cadmium-114	0.00100	0.04	0.100	ug/L	
SGJ0179-CCB7	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SGJ0179-CCB7	Cadmium-114	0.00100	0.04	0.100	ug/L	
SGJ0179-CCB8	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SGJ0179-CCB8	Cadmium-114	0.00600	0.04	0.100	ug/L	
SGJ0179-CCB9	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SGJ0179-CCB9	Cadmium-114	0.0100	0.04	0.100	ug/L	
SGJ0179-CCBA	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SGJ0179-CCBA	Cadmium-114	0.00200	0.04	0.100	ug/L	
SGJ0179-CCBB	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SGJ0179-CCBB	Cadmium-114	0.00500	0.04	0.100	ug/L	
SGJ0179-CCBC	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SGJ0179-CCBC	Cadmium-114	0.00700	0.04	0.100	ug/L	
SGJ0179-CCBD	Cadmium-111	0.00500	0.03	0.100	ug/L	
SGJ0179-CCBD	Cadmium-114	0.00600	0.04	0.100	ug/L	



INSTRUMENT BLANKS EPA 6020A UCT-KED

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Instrument ID: ICPMS2

Calibration: BJ00029

Sequence: SGJ0179

Date Analyzed: 10/10/18 23:02

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SGJ0179-CCBE	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SGJ0179-CCBE	Cadmium-114	0.0100	0.04	0.100	ug/L	
SGJ0179-CCBF	Cadmium-111	0.00100	0.03	0.100	ug/L	
SGJ0179-CCBF	Cadmium-114	0.00100	0.04	0.100	ug/L	
SGJ0179-CCBG	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SGJ0179-CCBG	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SGJ0179-CCBH	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SGJ0179-CCBH	Cadmium-114	0.00700	0.04	0.100	ug/L	



LCS / LCS DUPLICATE RECOVERY

EPA 6020A UCT-KED

Total Metals

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Solid</u>	Analyzed:	<u>10/10/18 20:06</u>
Batch:	<u>BGJ0277</u>	Laboratory ID:	<u>BGJ0277-BS2</u>
Preparation:	<u>SWN EPA 3050B</u>	Sequence Name:	<u>LCS</u>
Initial/Final:	<u>1 g / 50 mL</u>		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Cadmium-111	25.0	23.9		95.5	80 - 120
Cadmium-114	25.0	23.7		94.7	80 - 120

* Indicates values outside of QC limits



MS / MS DUPLICATE RECOVERY
EPA 6020A UCT-KED
Total Metals

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>18I0285</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble - OMMP LTM</u>
Matrix:	<u>Solid</u>	Analyzed:	<u>10/10/18 20:40</u>
Batch:	<u>BGJ0277</u>	Laboratory ID:	<u>BGJ0277-MS2</u>
Preparation:	<u>SWN EPA 3050B</u>	Sequence Name:	<u>Matrix Spike</u>
Initial/Final:	<u>1.037 g / 50 mL</u>	Source Sample:	<u>SMA1A-IT-0-10-Comp-180917</u>

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	Q	MS CONCENTRATION (mg/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Cadmium-111	30.4	0.10	J	26.4		86.7	75 - 125

* Values outside of QC limits



STANDARD REFERENCE MATERIAL RECOVERY
EPA 6020A UCT-KED

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Matrix: Solid

Laboratory ID: BGJ0277-SRM2

Batch: BGJ0277

Initial/Final: 1 g / 50 mL

Preparation: SWN EPA 3050B

Analyzed: 10/10/2018 20:45

Standard ID: F004382

Description: Metals In Soil

Expires: 04/30/2020

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Cadmium-111	63.200	57.8	0.03	0.10		91.4	79.7 - 120.4
Cadmium-114	63.200	58.2	0.04	0.10		92.1	79.7 - 120.4

* Values outside of QC limits



A Waters Company

F4382

Reference Materials

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No.: D095-540
Certificate Issue Date: December 07, 2016
Expiration Date: April 30, 2020
Revision Number: 2.0
Revision Date: March 24, 2017

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	59900	8040	6.77	3990 - 12100	3170 - 12900
Antimony	230	91.4	4.68	D.L. - 206	22.9 - 252
Arsenic	176	146	7.63	116 - 175	102 - 194
Barium	721	102	11.2	82.3 - 122	72.9 - 139
Beryllium	169	134	6.97	107 - 162	101 - 185
Boron	152	102	12.3	68.6 - 135	61.1 - 172
Cadmium	81.3	63.2	5.15	50.4 - 76.1	46.3 - 89.4
Calcium	13600	5930	3.87	4690 - 7170	4370 - 8070
Chromium	137	89.3	8.56	68.2 - 110	61.7 - 128
Cobalt	155	119	5.18	95.7 - 143	88.8 - 169
Copper	76.2	60.8	16.9	48.0 - 73.6	44.2 - 86.1
Iron	29800	14400	9.90	6350 - 22400	5120 - 23600
Lead	136	98.5	9.44	78.0 - 119	69.7 - 135
Magnesium	4630	2580	3.96	1910 - 3240	1640 - 3510
Manganese	644	370	4.14	291 - 450	280 - 497
Mercury	15.0	13.3	6.04	9.05 - 17.5	6.81 - 19.7
Molybdenum	109	83.7	5.35	63.5 - 104	57.9 - 119
Nickel	90.8	66.6	7.82	53.0 - 80.2	47.1 - 97.4
Potassium	29400	2340	5.14	1610 - 3070	1400 - 3280
Selenium	169	136	7.35	103 - 170	91.2 - 186
Silver	61.0	48.9	6.18	34.9 - 63.0	32.5 - 68.2
Sodium	14000	318	9.84	209 - 428	129 - 508
Strontium	286	88.0	6.18	67.5 - 109	61.8 - 120

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	170	138	5.13	106 - 170	93.8 - 188
Tin	128	96.9	4.60	70.8 - 123	54.8 - 139
Titanium	2520	429	7.62	119 - 738	133 - 724
Uranium	147	124	14.9	102 - 145	93.5 - 154
Vanadium	118	69.7	11.5	52.4 - 87.0	40.9 - 98.5
Zinc	233	177	9.83	142 - 213	123 - 232

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	59900	8040	79.6	155	-	-
Antimony	230	91.4	39.9	170	-	-
Arsenic	176	146	82.7	204	-	-
Barium	721	102	81.0	177	-	-
Beryllium	169	134	79.9	170	-	-
Boron	152	102	65.3	116	-	-
Cadmium	81.3	63.2	77.8	199	-	-
Calcium	13600	5930	80.7	140	-	-
Chromium	137	89.3	77.0	188	-	-
Cobalt	155	119	77.5	168	-	-
Copper	76.2	60.8	77.7	202	-	-
Iron	29800	14400	88.0	152	-	-
Lead	136	98.5	80.1	202	-	-
Magnesium	4630	2580	83.3	142	-	-
Manganese	644	370	81.9	172	-	-
Mercury	15.0	13.3	88.4	132	-	-
Molybdenum	109	83.7	77.5	167	-	-
Nickel	90.8	66.6	75.3	201	-	-
Potassium	29400	2340	84.6	147	-	-



INITIAL CALIBRATION DATA

EPA 6020A UCT-KED

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Calibration: BI00061

Instrument: ICPMS2

Calibration Date: 09/21/2018 10:28

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Cadmium-111	0	0	0.1	320	10	296.4	20	290.4	50	283.48	100	277.43
Cadmium-114	0	0	0.1	860	10	742.8	20	742.4	50	719.02	100	713.27



Analytical Resources,
Incorporated
Analytical Chemists and
Consultants

ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 9-21-18

Analyst: YH

Sequence: 5010356

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEW-CAL1	68479		
		-CAL2	68232		
		-CAL3	68158		
		-CAL4	68159		
		-CAL5	68417		
		-CAL6	68160		
		-IBL1	—		
		-ICV1	68233		
		-ICB1	68479		
		-CCV1	68417		
		-CCB1	68479		
	✓	-CRL1	68232		
		-IFA1	67606		Cr ⁵³ ↑
		-IFB1	67607		
		-HCV1	68161		
		-HCV2	68416		
		-IBL2-IBL6			
		-CCV2			
		-CCB2			Cr ⁵³ ↑
		-IBL7-IBL8			
		-CAL1			
		-CCV3			
		-CCB3			
		-CRL1	68232		



ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 9-21-18

Analyst: TK

Sequence:

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-INA1	G7606		Ce ⁵³ ↑
		↓ -IFB1	G7607		
		-HCW1	G8161		
		-HCW2	G8416		
		-IBCD			
		-CCW4			
		↓ -CCB4			
		BLOJSS4-BUL1	SWC	20	
		18J0287-02		50	
		↓ -03			
		-04			
		-05			
		↓ -06			
		BLOJSS4-DUP1			Pb KPDT (EZ)
		18J0287-01			
		BLOJSS4-MS1			ICP spike
		↓ -BS1			↓
		SEQ-CCWS			
		↓ -CCBS			
		18J0287-07	SWC	50	
		↓ -08			
		-09			
		↓ -10			
✓		18J0152-02	FEU	20	



Analytical Resources,
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Consultants

ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 9-21-18

Analyst: YH

Sequence:

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments	
	✓	18JD285-38	ZEN	20		
		SEQ-CEV6				
		↓ -CC36				
		BGIJ0588-BLK1	ZEN			
	✓	18JD286-26	↓	10	ZEN 12.1	
		BGIJ0588-DUP1			Salty Pb, UZ; Cu, Zn only	
		18JD286-02			↓ ↓ ↓	
		BGIJ0588-MS1				
		18JD286-26				
DUP2		BGIJ0588-DUP2			5	Salty Ge-1 ↓ Pb only
ORFE1		18JD286-ORFE1			↓	↓ ↓ ↓
MS2		BGIJ0588-MS2			↓	↓ ↓ ↓
		↓ -BS1				
		SEQ-CEV7				
		↓ -CC37				
		BGIJ0575-BLK1	ZEN		No Cr ⁹³	
		18JD292-01	↓			
		18JD293-01			No Cr	
		18JD294-01				
		18JD299-01			No Cr	
		18JD303-01				
		BGIJ0575-DUP1				
		18JD284-01				
		BGIJ0575-MS1			Ba STL	



Analysis Date: 9-21-18 Analyst: YH Sequence: —

All corrections made by analyst unless otherwise noted. YH 9-21-18

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BGI0575-351	ZEN		No Cr ⁵³
		SEQ-CW8			
		↓ -CC38			Cr ⁵³ ↓
		BGI0400-341	ZEN		
		18J0505-01			
✓		18J0152-03			Ge-1, In-1, In, Tb ↓ Salty
↓		↓ -04			↓
		↓ -05			Salty Ge-1 ↓ No As, Se
		↓ -06			
		BGI0400-Dup1			
		18J0152-01			
		BGI0400-MS1			Zn
		↓ -351	↓		Sc, In, Tb noisy As, Se only
		SEQ-CW9			
		↓ -CC39			Cr ⁵³ ↑
		18J0152-08	ZEN		
		↓ -09			
		↓ -10			
		↓ -11			
		↓ -13			
		↓ -12		5	ZEN Cr, As, Ba only
		↓ -02		↓	↓ Cr, As, Ba, Pb only
		↓ -07		↓	
		18J0209-04	↓	100	Ni only



Analytical Resources,
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ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 9-21-18

Analyst: YH

Sequence: —

All corrections made by analyst unless otherwise noted. YH 9-21-18

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		18J0285-38	REN		
		SEW-CCVA			
		↓ -CCBA			
		18J0209-02	REN	100	Ni only
		↓ -09	↓	↓	↓
		BGI0470-DUP2			
		18J0209-07			
		BGI0470-MS2			Ni STL
		BGI0401-DUP2			
-06		18J0209-06 REN			
		BGI0401-MS2			Ni STL
		↓ -MSD2	↓	↓	↓
		SEW- CCVB CCVB			Pb ↑
		↓ -CCVB			
	✓	18J0209-06	REN		Pb only
	↓	18J0168-01	↓		↓
		18J0175-01			
		18J0169-01	↓	5	
		18J0153-11	SWU	50	
		↓ -17	↓	↓	↓
		SEW-CCVC			Cu, Pb ↑
		RMSD1 SEW-CCVB			C-53 ↓
		RMSD1			
			YH 9-21-18		

YH
9-21-18

Performance Check Report

Sample ID: STD Performance Check

Sample Date/Time: Friday, September 21, 2018 09:24:25

Sample Description:

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth

Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.15882

MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Dual Detector Mode: Pulse

Acq. Dead Time (ns): 35

Current Dead Time (ns): 35

Torch Z position (mm): 0.00

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens. SD	Net Intens. RSD	Mode	
Be	9.0		7449.7		7449.743	176.268	2.4	Standard	
In	114.9		80840.8		80840.844	907.143	1.1	Standard	
U	238.1		54664.7		54664.747	943.188	1.7	Standard	
[	CeO	155.9		1715.5		0.021		5.3	Standard
|>	Ce	139.9		80310.6		80310.567	1430.677	1.8	Standard
[	Ce++	70.0		1236.6		0.015		1.7	Standard
	Bkgd	220.0		0.1		0.067		136.9	Standard

Current Conditions File Data

Current Value	Description
0.96	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-12.00	Deflector Voltage
1600.00	ICP RF Power
-1650.00	Analog Stage Voltage
1500.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
7.00	Discriminator Threshold
-2.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
0.96	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-15.50	KED Mode CRO
-12.00	KED Mode QRO
-5.00	KED Mode Cell Entrance Voltage
-31.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
0.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 9/21/2018 9:24:22 AM

End Time: 9/21/2018 9:35:17 AM

STD Performance Check - [Passed] Optimum value(s): N/A

Obtained Intensity (Be 9): 7449.74

Obtained Intensity (In 115): 80840.84

Obtained Intensity (U 238): 54664.75

Obtained Intensity (Bkgd 220): 0.07

Obtained Formula (Ce++ 70 / ce 140): 0.015 (=1236.59 / 80310.57)

Obtained Formula (CeO 156 / ce 140): 0.021 (=1715.50 / 80310.57)

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.99 mm	-0.48 mm	104272.16

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.95

Obtained Intensity (In 115): 95500.15

Obtained Formula (CeO 156 / ce 140): 0.0233 (=1992.14 / 85589.63)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.716)

Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)

Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.718)

Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.702)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.992; Intercept = -10.87

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.74

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 9/21/2018 9:24:22 AM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 1
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 7449.74
Obtained Intensity (In 115): 80840.84
Obtained Intensity (U 238): 54664.75
Obtained Intensity (Bkgd 220): 0.07
Obtained Formula (Ce++ 70 / Ce 140): 0.015 (=1236.59 / 80310.57)
Obtained Formula (CeO 156 / Ce 140): 0.021 (=1715.50 / 80310.57)

[Passed] Optimum value(s): N/A

Torch Alignment

Optimization Settings:

Method: Torch Alignment.mth.
Intensity Criterion: In 115 Maximum

Optimization Results:

	Vertical	Horizontal	Intensity
[Passed]	0.99 mm	-0.48 mm	104272.16

Nebulizer Gas Flow STD/KED [NEB]

Optimization Settings:

Method: Optimize.mth.
Initial Try - Start/End/Step: 0.92/1/0.01.
Intensity Criterion: In 115 Maximum
Formula Criterion: CeO 156 / Ce 140 <= 0.025

Optimization Results:

Initial Try

Obtained Intensity (In 115): 95500.15
Obtained Formula (CeO 156 / Ce 140): 0.0233 (=1992.14 / 85589.63)

[Passed] Optimum value(s): 0.95

Mass Calibration and Resolution

Optimization Settings:

Method: Tuning.mth.
MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution

Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try

Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.716)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.706)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.718)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.702)

[Passed] Optimum value(s): N/A

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -16/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.992; Intercept = -10.87

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	33	-11.5	38447.7
Mg	24	33	-12	45745.1
In	115	33	-9	99416.7
Ce	140	33	-7	93525.1
Pb	208	33	-6	41235.4
U	238	33	-6	61769.3

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.999; Intercept = -12.74

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-12.5	22157.2
Mg	24	41	-12	44934.6
In	115	41	-8	77469.5
Ce	140	41	-7.5	63227.6
Pb	208	41	-5.5	26817.1
U	238	41	-4.5	43008.6

End Time: 9/21/2018 9:35:17 AM

Performance Check Report

Sample ID: STD Performance Check

Sample Date/Time: Friday, September 21, 2018 09:38:46

Sample Description:

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\STD Performance Check.mth

Dataset File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\DataSet\Default\STD Performance Check.15890

MassCal File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Dual Detector Mode: Pulse

Acq. Dead Time (ns): 35

Current Dead Time (ns): 35

Torch Z position (mm): 0.00

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD	Mode	
Be	9.0		9208.0		9208.034		129.674		1.4	Standard	
In	114.9		97042.0		97041.963		655.423		0.7	Standard	
U	238.1		63651.2		63651.193		1193.068		1.9	Standard	
[	CeO	155.9		2253.3		0.024		0.001		2.8	Standard
|>	Ce	139.9		93423.1		93423.109		1018.845		1.1	Standard
[	Ce++	70.0		1787.7		0.019		0.001		2.6	Standard
	Bkgd	220.0		0.0		0.000		0.000			Standard

Current Conditions File Data

Current Value	Description
0.95	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
18.00	Plasma Gas Flow
-12.00	Deflector Voltage
1600.00	ICP RF Power
-1650.00	Analog Stage Voltage
1500.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-8.00	Cell Rod Offset STD [CRO]
7.00	Discriminator Threshold
-2.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.25	RPq
0.95	DRC Mode NEB
-10.00	DRC Mode QRO
-3.00	DRC Mode CRO
-7.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
250.00	Axial Field Voltage
-15.50	KED Mode CRO
-12.00	KED Mode QRO
-5.00	KED Mode Cell Entrance Voltage
-31.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
0.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
475.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Start Time: 9/21/2018 9:36:54 AM

End Time: 9/21/2018 9:40:51 AM

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.998; Intercept = -10.97

STD Performance Check - [Passed] Optimum value(s): N/A

Obtained Intensity (Be 9): 9208.03

Obtained Intensity (In 115): 97041.96

Obtained Intensity (U 238): 63651.19

Obtained Intensity (Bkgd 220): 0.00

Obtained Formula (Ce++ 70 / Ce 140): 0.019 (=1787.71 / 93423.11)

Obtained Formula (CeO 156 / Ce 140): 0.024 (=2253.31 / 93423.11)

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\wizard\SmartTune\ARIdaily_UCT.swz

Optimization Status

Start Time: 9/21/2018 9:36:54 AM

QID STD/DRC

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -16/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.998; Intercept = -10.97

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	33	-11.5	38114.8
Mg	24	33	-12	47258
In	115	33	-8.5	100146
Ce	140	33	-7	93158.8
Pb	208	33	-6	39482.5
U	238	33	-6	63006.6

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

Intensity Criterion: In 115 > 40000

Intensity Criterion: U 238 > 30000

Intensity Criterion: Bkgd 220 <= 1

Formula Criterion: Ce++ 70 / Ce 140 <= 0.03

Formula Criterion: CeO 156 / Ce 140 <= 0.025

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 9208.03

Obtained Intensity (In 115): 97041.96

Obtained Intensity (U 238): 63651.19

Obtained Intensity (Bkgd 220): 0.00

Obtained Formula (Ce++ 70 / Ce 140): 0.019 (=1787.71 / 93423.11)

Obtained Formula (CeO 156 / Ce 140): 0.024 (=2253.31 / 93423.11)

[Passed] Optimum value(s): N/A

End Time: 9/21/2018 9:40:51 AM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 10:28:16

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L				23916	3	Standard
Cl	37		ug/L				5094349	0	Standard
[> Sc	45		ug/L				1550094	0	Standard
| Cr	52		ug/L				25522	1	Standard
| Cr	53		ug/L				1056	1	Standard
[> Ge-1	72		ug/L				67162	1	KED
| Ni	60		ug/L				32	38	KED
| Ni	62		ug/L				4	24	KED
| Cu	63		ug/L				37	21	KED
| Cu	65		ug/L				18	11	KED
| Zn	66		ug/L				22	16	KED
| Zn	67		ug/L				3	50	KED
| As	75		ug/L				4	36	KED
| Se-1	78		ug/L				8	21	KED
Y	89		ug/L				795983	1	Standard
Kr	83		ug/L				97	12	Standard
[> In-1	115		ug/L				19169	0	KED
| Cd	111		ug/L				4	24	KED
| Cd	114		ug/L				1	176	KED
[> In	115		ug/L				1223057	2	Standard
| Ag	107		ug/L				80	5	Standard
| Ba	135		ug/L				12	39	Standard
| Ba	137		ug/L				23	12	Standard
[> Tb	159		ug/L				1508905	2	Standard
| Pb	208		ug/L				219	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 10:32:51

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			23916	25742	2	Standard
Cl	37	ug/L			5094349	5282317	5	Standard
[> Sc	45	ug/L			1550094	1583979	0	Standard
| Cr	52	0.500	0.044	8	25522	41467	2	Standard
| Cr	53	0.500	0.014	2	1056	2753	2	Standard
[> Ge-1	72	ug/L			67162	68074	0	KED
| Ni	60	0.500	0.019	3	32	820	2	KED
| Ni	62	0.500	0.070	13	4	124	14	KED
| Cu	63	0.500	0.025	4	37	1738	3	KED
| Cu	65	0.500	0.008	1	18	890	2	KED
| Zn	66	4.000	0.286	7	22	2098	6	KED
| Zn	67	4.000	0.130	3	3	330	3	KED
| As	75	0.200	0.005	2	4	57	2	KED
| Se-1	78	0.500	0.082	16	8	25	10	KED
Y	89	ug/L			795983	826847	0	Standard
Kr	83	ug/L			97	93	9	Standard
[> In-1	115	ug/L			19169	18883	1	KED
| Cd	111	0.100	0.023	22	4	32	18	KED
| Cd	114	0.100	0.016	15	1	86	14	KED
[> In	115	ug/L			1223057	1215969	1	Standard
| Ag	107	0.200	0.009	4	80	4395	4	Standard
| Ba	135	0.500	0.023	4	12	2981	3	Standard
| Ba	137	0.500	0.019	3	23	5131	1	Standard
[> Tb	159	ug/L			1508905	1530087	2	Standard
| Pb	208	0.100	0.005	5	219	6319	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 10:37:26

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	37329	2	Standard
Cl	37		ug/L			5094349	5386088	0	Standard
[> Sc	45		ug/L			1550094	1607542	0	Standard
| Cr	52	9.998	ug/L	0.254	2	25522	321196	2	Standard
| Cr	53	10.000	ug/L	0.208	2	1056	34687	2	Standard
[> Ge-1	72		ug/L			67162	69748	2	KED
| Ni	60	9.992	ug/L	0.044	0	32	12137	2	KED
| Ni	62	9.992	ug/L	0.523	5	4	1843	3	KED
| Cu	63	9.998	ug/L	0.217	2	37	32303	0	KED
| Cu	65	9.997	ug/L	0.306	3	18	16161	0	KED
| Zn	66	9.810	ug/L	0.221	2	22	4686	1	KED
| Zn	67	9.851	ug/L	0.367	3	3	758	2	KED
| As	75	10.000	ug/L	0.203	2	4	2740	0	KED
| Se-1	78	9.997	ug/L	0.727	7	8	320	4	KED
Y	89		ug/L			795983	847515	2	Standard
Kr	83		ug/L			97	95	12	Standard
[> In-1	115		ug/L			19169	19342	0	KED
| Cd	111	10.000	ug/L	0.228	2	4	2964	2	KED
| Cd	114	10.000	ug/L	0.072	0	1	7428	0	KED
[> In	115		ug/L			1223057	1240772	0	Standard
| Ag	107	10.000	ug/L	0.244	2	80	211588	1	Standard
| Ba	135	9.997	ug/L	0.221	2	12	53944	2	Standard
| Ba	137	9.998	ug/L	0.104	1	23	95056	1	Standard
[> Tb	159		ug/L			1508905	1538753	0	Standard
| Pb	208	10.000	ug/L	0.190	1	219	529469	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 10:42:16

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	32277	3	Standard
Cl	37		ug/L			5094349	5507550	2	Standard
[> Sc	45		ug/L			1550094	1585909	2	Standard
| Cr	52	19.967	ug/L	0.555	2	25522	602672	0	Standard
| Cr	53	20.041	ug/L	0.917	4	1056	67999	3	Standard
[> Ge-1	72		ug/L			67162	69833	1	KED
| Ni	60	19.813	ug/L	0.262	1	32	23195	1	KED
| Ni	62	20.052	ug/L	0.569	2	4	3739	3	KED
| Cu	63	20.061	ug/L	0.194	0	37	65667	0	KED
| Cu	65	20.031	ug/L	0.610	3	18	32609	1	KED
| Zn	66	19.772	ug/L	0.510	2	22	9077	0	KED
| Zn	67	20.069	ug/L	0.493	2	3	1561	3	KED
| As	75	19.937	ug/L	0.171	0	4	5399	1	KED
| Se-1	78	19.894	ug/L	0.675	3	8	617	2	KED
Y	89		ug/L			795983	823613	1	Standard
Kr	83		ug/L			97	92	8	Standard
[> In-1	115		ug/L			19169	19149	1	KED
| Cd	111	19.961	ug/L	0.303	1	4	5808	0	KED
| Cd	114	20.038	ug/L	0.144	0	1	14848	0	KED
[> In	115		ug/L			1223057	1219291	3	Standard
| Ag	107	20.048	ug/L	1.308	6	80	420257	3	Standard
| Ba	135	20.136	ug/L	0.831	4	12	109635	0	Standard
| Ba	137	19.999	ug/L	0.478	2	23	186705	1	Standard
[> Tb	159		ug/L			1508905	1516802	0	Standard
| Pb	208	20.020	ug/L	0.384	1	219	1048837	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 10:47:15

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	25241	2	Standard
Cl	37		ug/L			5094349	5471221	0	Standard
[> Sc	45		ug/L			1550094	1528768	1	Standard
| Cr	52	49.988	ug/L	0.444	0	25522	1415620	1	Standard
| Cr	53	50.073	ug/L	1.096	2	1056	163524	3	Standard
[> Ge-1	72		ug/L			67162	67904	2	KED
| Ni	60	49.630	ug/L	0.297	0	32	54448	2	KED
| Ni	62	49.630	ug/L	1.032	2	4	8671	0	KED
| Cu	63	49.847	ug/L	1.573	3	37	156157	1	KED
| Cu	65	49.816	ug/L	0.745	1	18	77445	3	KED
| Zn	66	49.499	ug/L	0.645	1	22	21051	3	KED
| Zn	67	49.519	ug/L	1.711	3	3	3573	1	KED
| As	75	50.022	ug/L	0.838	1	4	13191	1	KED
| Se-1	78	49.866	ug/L	0.465	0	8	1472	1	KED
Y	89		ug/L			795983	814251	1	Standard
Kr	83		ug/L			97	109	10	Standard
[> In-1	115		ug/L			19169	19183	1	KED
| Cd	111	49.768	ug/L	0.241	0	4	14174	0	KED
| Cd	114	49.732	ug/L	0.785	1	1	35951	1	KED
[> In	115		ug/L			1223057	1174211	0	Standard
| Ag	107	49.862	ug/L	0.135	0	80	994184	0	Standard
| Ba	135	49.965	ug/L	0.770	1	12	261291	0	Standard
| Ba	137	50.068	ug/L	0.651	1	23	453395	0	Standard
[> Tb	159		ug/L			1508905	1514048	1	Standard
| Pb	208	49.638	ug/L	0.819	1	219	2504163	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 10:53:55

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	29805	4	Standard
Cl	37		ug/L			5094349	5609617	2	Standard
[> Sc	45		ug/L			1550094	1525807	1	Standard
| Cr	52	99.052	ug/L	2.378	2	25522	2690779	2	Standard
| Cr	53	99.784	ug/L	1.561	1	1056	321811	1	Standard
[> Ge-1	72		ug/L			67162	66989	1	KED
| Ni	60	100.565	ug/L	1.381	1	32	110874	0	KED
| Ni	62	100.505	ug/L	2.390	2	4	17615	0	KED
| Cu	63	99.173	ug/L	5.182	5	37	298277	4	KED
| Cu	65	99.488	ug/L	2.729	2	18	149937	1	KED
| Zn	66	99.845	ug/L	2.595	2	22	41642	2	KED
| Zn	67	100.161	ug/L	1.231	1	3	7166	0	KED
| As	75	100.425	ug/L	1.956	1	4	26500	1	KED
| Se-1	78	100.036	ug/L	1.061	1	8	2909	0	KED
Y	89		ug/L			795983	785002	3	Standard
Kr	83		ug/L			97	130	9	Standard
[> In-1	115		ug/L			19169	18846	1	KED
| Cd	111	99.811	ug/L	1.611	1	4	27743	0	KED
| Cd	114	100.103	ug/L	2.109	2	1	71327	0	KED
[> In	115		ug/L			1223057	1161048	3	Standard
| Ag	107	99.092	ug/L	4.748	4	80	1894489	3	Standard
| Ba	135	99.775	ug/L	3.088	3	12	511695	0	Standard
| Ba	137	100.460	ug/L	6.562	6	23	912050	2	Standard
[> Tb	159		ug/L			1508905	1481120	1	Standard
| Pb	208	99.444	ug/L	1.136	1	219	4819567	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 11:01:07

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	23500	2	Standard
Cl	37		ug/L			5094349	5245769	1	Standard
[> Sc	45		ug/L			1550094	1511221	2	Standard
| Cr	52	0.024	ug/L	0.014	58	25522	25529	1	Standard
| Cr	53	-0.023	ug/L	0.005	22	1056	957	3	Standard
[> Ge-1	72		ug/L			67162	71250	1	KED
| Ni	60	0.002	ug/L	0.015	982	32	36	48	KED
| Ni	62	0.016	ug/L	0.018	113	4	7	43	KED
| Cu	63	0.007	ug/L	0.009	118	37	62	43	KED
| Cu	65	0.014	ug/L	0.017	125	18	41	66	KED
| Zn	66	-0.012	ug/L	0.001	6	22	19	0	KED
| Zn	67	-0.004	ug/L	0.065	1809	3	3	132	KED
| As	75	0.019	ug/L	0.014	73	4	10	37	KED
| Se-1	78	0.046	ug/L	0.033	72	8	10	9	KED
Y	89		ug/L			795983	793836	0	Standard
Kr	83		ug/L			97	73	19	Standard
[> In-1	115		ug/L			19169	19844	0	KED
| Cd	111	-0.012	ug/L	0.003	26	4	0	100	KED
| Cd	114	0.005	ug/L	0.005	106	1	4	78	KED
[> In	115		ug/L			1223057	1197241	1	Standard
| Ag	107	0.003	ug/L	0.001	39	80	139	18	Standard
| Ba	135	0.002	ug/L	0.000	8	12	24	4	Standard
| Ba	137	0.002	ug/L	0.001	46	23	41	20	Standard
[> Tb	159		ug/L			1508905	1479952	1	Standard
| Pb	208	0.002	ug/L	0.001	36	219	300	9	Standard

Sample Information

Sample Date/Time: Friday, September 21, 2018 10:53:55

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_C

Mass Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCa\Default.tun

Conditions File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Calibration

Analyte	Mass	r Corr Coef	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	0.9999	0.018	0.50	10	20	50	100
Cr	53	1.0000	0.002	0.50	10	20	50	100
Ge-1	72							
Ni	60	0.9999	0.016	0.50	10	20	50	100
Ni	62	0.9999	0.003	0.50	10	20	50	100
Cu	63	0.9999	0.045	0.50	10	20	50	100
Cu	65	0.9999	0.023	0.50	10	20	50	100
Zn	66	0.9999	0.006	4.00	10	20	50	100
Zn	67	0.9999	0.001	4.00	10	20	50	100
As	75	1.0000	0.004	0.20	10	20	50	100
Se-1	78	1.0000	0.000	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	1.0000	0.015	0.10	10	20	50	100
Cd	114	1.0000	0.038	0.10	10	20	50	100
In	115							
Ag	107	0.9999	0.016	0.20	10	20	50	100
Ba	135	1.0000	0.004	0.50	10	20	50	100
Ba	137	1.0000	0.008	0.50	10	20	50	100
Tb	159							
Pb	208	0.9999	0.033	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 11:08:22

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	27768	1	Standard
Cl	37		ug/L			5094349	5629371	1	Standard
[> Sc	45		ug/L			1550094	1539261	2	Standard
| Cr	52	50.398	ug/L	1.620	3	25522	1392884	1	Standard
| Cr	53	50.113	ug/L	1.507	3	1056	163500	0	Standard
[> Ge-1	72		ug/L			67162	67646	0	KED
| Ni	60	51.542	ug/L	0.357	0	32	57407	1	KED
| Ni	62	48.990	ug/L	2.058	4	4	8673	3	KED
| Cu	63	49.237	ug/L	0.857	1	37	149600	1	KED
| Cu	65	50.938	ug/L	1.023	2	18	77558	2	KED
| Zn	66	50.149	ug/L	0.024	0	22	21134	0	KED
| Zn	67	49.735	ug/L	1.513	3	3	3595	2	KED
| As	75	50.290	ug/L	0.607	1	4	13404	1	KED
| Se-1	78	76.992	ug/L	2.171	2	8	2263	2	KED
Y	89		ug/L			795983	806262	2	Standard
Kr	83		ug/L			97	97	6	Standard
[> In-1	115		ug/L			19169	19746	4	KED
| Cd	111	48.189	ug/L	3.152	6	4	14009	1	KED
| Cd	114	48.217	ug/L	2.401	4	1	35948	0	KED
[> In	115		ug/L			1223057	1204645	3	Standard
| Ag	107	49.246	ug/L	1.424	2	80	977242	1	Standard
| Ba	135	49.074	ug/L	1.451	2	12	261183	0	Standard
| Ba	137	49.402	ug/L	0.127	0	23	466121	3	Standard
[> Tb	159		ug/L			1508905	1504811	1	Standard
| Pb	208	50.786	ug/L	0.430	0	219	2500729	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 11:15:41

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	23524	2	Standard
Cl	37		ug/L			5094349	5362860	2	Standard
[> Sc	45		ug/L			1550094	1560820	1	Standard
| Cr	52	0.009	ug/L	0.039	418	25522	25942	2	Standard
| Cr	53	-0.028	ug/L	0.013	47	1056	972	2	Standard
[> Ge-1	72		ug/L			67162	68356	0	KED
| Ni	60	-0.004	ug/L	0.009	193	32	27	34	KED
| Ni	62	0.014	ug/L	0.016	119	4	6	41	KED
| Cu	63	0.002	ug/L	0.001	82	37	43	9	KED
| Cu	65	0.012	ug/L	0.001	4	18	36	2	KED
| Zn	66	0.008	ug/L	0.014	170	22	26	21	KED
| Zn	67	0.008	ug/L	0.015	195	3	4	24	KED
| As	75	0.008	ug/L	0.010	129	4	6	39	KED
| Se-1	78	0.123	ug/L	0.183	148	8	11	46	KED
Y	89		ug/L			795983	806922	2	Standard
Kr	83		ug/L			97	80	28	Standard
[> In-1	115		ug/L			19169	19831	0	KED
| Cd	111	-0.007	ug/L	0.004	52	4	2	43	KED
| Cd	114	0.002	ug/L	0.001	57	1	3	33	KED
[> In	115		ug/L			1223057	1199624	1	Standard
| Ag	107	0.003	ug/L	0.000	7	80	143	5	Standard
| Ba	135	0.003	ug/L	0.001	48	12	27	29	Standard
| Ba	137	0.002	ug/L	0.000	21	23	42	11	Standard
[> Tb	159		ug/L			1508905	1507445	0	Standard
| Pb	208	0.001	ug/L	0.000	8	219	283	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 11:20:16

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	25370	3	Standard
Cl	37		ug/L			5094349	5671251	2	Standard
[> Sc	45		ug/L			1550094	1570233	0	Standard
| Cr	52	49.242	ug/L	0.294	0	25522	1389601	0	Standard
| Cr	53	49.278	ug/L	1.113	2	1056	164097	1	Standard
[> Ge-1	72		ug/L			67162	68141	3	KED
| Ni	60	50.933	ug/L	0.988	1	32	57119	1	KED
| Ni	62	51.027	ug/L	1.684	3	4	9095	0	KED
| Cu	63	50.963	ug/L	2.177	4	37	155852	1	KED
| Cu	65	51.953	ug/L	0.815	1	18	79656	2	KED
| Zn	66	51.526	ug/L	1.837	3	22	21859	2	KED
| Zn	67	50.623	ug/L	1.696	3	3	3684	0	KED
| As	75	50.824	ug/L	1.093	2	4	13639	1	KED
| Se-1	78	51.320	ug/L	1.529	2	8	1521	2	KED
Y	89		ug/L			795983	847682	1	Standard
Kr	83		ug/L			97	97	8	Standard
[> In-1	115		ug/L			19169	19739	0	KED
| Cd	111	49.557	ug/L	0.310	0	4	14432	0	KED
| Cd	114	49.117	ug/L	0.597	1	1	36664	1	KED
[> In	115		ug/L			1223057	1165398	1	Standard
| Ag	107	51.690	ug/L	3.428	6	80	992236	5	Standard
| Ba	135	50.074	ug/L	1.760	3	12	257861	1	Standard
| Ba	137	50.963	ug/L	1.281	2	23	465033	0	Standard
[> Tb	159		ug/L			1508905	1492714	2	Standard
| Pb	208	50.654	ug/L	1.547	3	219	2472560	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 11:27:15

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	23858	1	Standard
Cl	37		ug/L			5094349	5386909	1	Standard
[> Sc	45		ug/L			1550094	1579279	1	Standard
| Cr	52	-0.031	ug/L	0.005	15	25522	25127	1	Standard
| Cr	53	-0.045	ug/L	0.022	48	1056	926	6	Standard
[> Ge-1	72		ug/L			67162	70816	1	KED
| Ni	60	-0.008	ug/L	0.003	38	32	24	13	KED
| Ni	62	0.016	ug/L	0.017	109	4	7	43	KED
| Cu	63	0.001	ug/L	0.003	319	37	42	22	KED
| Cu	65	0.004	ug/L	0.004	110	18	25	26	KED
| Zn	66	0.017	ug/L	0.012	68	22	31	15	KED
| Zn	67	-0.003	ug/L	0.026	980	3	3	50	KED
| As	75	0.006	ug/L	0.004	65	4	6	17	KED
| Se-1	78	0.011	ug/L	0.074	673	8	8	26	KED
Y	89		ug/L			795983	816685	1	Standard
Kr	83		ug/L			97	72	31	Standard
[> In-1	115		ug/L			19169	19845	1	KED
| Cd	111	-0.008	ug/L	0.002	21	4	2	24	KED
| Cd	114	0.003	ug/L	0.003	85	1	3	54	KED
[> In	115		ug/L			1223057	1240795	0	Standard
| Ag	107	0.004	ug/L	0.001	22	80	161	10	Standard
| Ba	135	0.004	ug/L	0.002	53	12	34	35	Standard
| Ba	137	0.003	ug/L	0.003	94	23	50	49	Standard
[> Tb	159		ug/L			1508905	1510076	1	Standard
| Pb	208	0.004	ug/L	0.000	10	219	400	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

DEL

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 11:31:51

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	25053	2	Standard
Cl	37		ug/L			5094349	5377217	0	Standard
[> Sc	45		ug/L			1550094	1554948	0	Standard
| Cr	52	0.501	ug/L	0.023	4	25522	39344	1	Standard
| Cr	53	0.446	ug/L	0.012	2	1056	2520	1	Standard
[> Ge-1	72		ug/L			67162	71219	2	KED
| Ni	60	0.509	ug/L	0.031	5	32	630	4	KED
| Ni	62	0.445	ug/L	0.060	13	4	87	11	KED
| Cu	63	0.528	ug/L	0.011	2	37	1729	2	KED
| Cu	65	0.500	ug/L	0.022	4	18	819	2	KED
| Zn	66	4.287	ug/L	0.145	3	22	1923	1	KED
| Zn	67	3.752	ug/L	0.152	4	3	289	6	KED
| As	75	0.191	ug/L	0.012	6	4	58	6	KED
| Se-1	78	0.534	ug/L	0.105	19	8	25	13	KED
Y	89		ug/L			795983	816067	0	Standard
Kr	83		ug/L			97	72	4	Standard
[> In-1	115		ug/L			19169	19800	0	KED
| Cd	111	0.073	ug/L	0.026	35	4	26	29	KED
| Cd	114	0.085	ug/L	0.009	10	1	65	10	KED
[> In	115		ug/L			1223057	1213598	1	Standard
| Ag	107	0.208	ug/L	0.007	3	80	4245	2	Standard
| Ba	135	0.478	ug/L	0.009	1	12	2576	2	Standard
| Ba	137	0.484	ug/L	0.015	3	23	4621	3	Standard
[> Tb	159		ug/L			1508905	1509533	2	Standard
| Pb	208	0.107	ug/L	0.005	4	219	5523	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1

Sample Dil Factor:

DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 11:49:43

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	129597	1	Standard
Cl	37		ug/L			5094349	14413932	2	Standard
[> Sc	45		ug/L			1550094	1628789	1	Standard
| Cr	52	0.590	ug/L	0.037	6	25522	43769	1	Standard
| Cr	53	4.823	ug/L	0.153	3	1056	17663	3	Standard
[> Ge-1	72		ug/L			67162	65206	2	KED
| Ni	60	0.044	ug/L	0.013	29	32	78	17	KED
| Ni	62	0.075	ug/L	0.028	37	4	17	29	KED
| Cu	63	0.078	ug/L	0.012	15	37	265	12	KED
| Cu	65	0.070	ug/L	0.020	28	18	120	22	KED
| Zn	66	0.440	ug/L	0.045	10	22	200	9	KED
| Zn	67	0.257	ug/L	0.032	12	3	21	10	KED
| As	75	0.027	ug/L	0.004	16	4	11	8	KED
| Se-1	78	0.132	ug/L	0.020	15	8	11	6	KED
Y	89		ug/L			795983	782603	1	Standard
Kr	83		ug/L			97	307	15	Standard
[> In-1	115		ug/L			19169	18556	2	KED
| Cd	111	0.041	ug/L	0.015	37	4	15	25	KED
| Cd	114	0.052	ug/L	0.013	24	1	37	26	KED
[> In	115		ug/L			1223057	1136535	1	Standard
| Ag	107	0.018	ug/L	0.001	7	80	419	5	Standard
| Ba	135	0.041	ug/L	0.004	10	12	216	9	Standard
| Ba	137	0.036	ug/L	0.002	5	23	339	4	Standard
[> Tb	159		ug/L			1508905	1441863	1	Standard
| Pb	208	0.050	ug/L	0.002	4	219	2552	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1

Sample Dil Factor: DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 11:54:17

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	134614	3	Standard
Cl	37		ug/L			5094349	14146229	8	Standard
[> Sc	45		ug/L			1550094	1611113	0	Standard
| Cr	52	20.580	ug/L	0.346	1	25522	611336	1	Standard
| Cr	53	23.823	ug/L	0.745	3	1056	81966	2	Standard
[> Ge-1	72		ug/L			67162	62816	0	KED
| Ni	60	20.561	ug/L	0.650	3	32	21283	2	KED
| Ni	62	20.175	ug/L	0.630	3	4	3319	2	KED
| Cu	63	19.686	ug/L	0.507	2	37	55567	2	KED
| Cu	65	20.039	ug/L	0.617	3	18	28337	2	KED
| Zn	66	19.503	ug/L	0.510	2	22	7645	2	KED
| Zn	67	17.746	ug/L	0.935	5	3	1193	5	KED
| As	75	19.596	ug/L	0.120	0	4	4852	0	KED
| Se-1	78	0.083	ug/L	0.095	114	8	9	26	KED
Y	89		ug/L			795983	799771	1	Standard
Kr	83		ug/L			97	248	12	Standard
[> In-1	115		ug/L			19169	17999	1	KED
| Cd	111	19.059	ug/L	0.078	0	4	5063	0	KED
| Cd	114	19.222	ug/L	0.590	3	1	13082	2	KED
[> In	115		ug/L			1223057	1150997	2	Standard
| Ag	107	19.527	ug/L	0.817	4	80	370298	2	Standard
| Ba	135	0.034	ug/L	0.003	7	12	186	9	Standard
| Ba	137	0.027	ug/L	0.001	3	23	266	1	Standard
[> Tb	159		ug/L			1508905	1449973	3	Standard
| Pb	208	0.037	ug/L	0.002	5	219	1979	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1

Sample Dil Factor: DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 11:58:51

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	27782	4	Standard
Cl	37		ug/L			5094349	5743782	1	Standard
[> Sc	45		ug/L			1550094	1497898	1	Standard
| Cr	52	194.323	ug/L	10.061	5	25522	5156965	4	Standard
| Cr	53	197.776	ug/L	7.875	3	1056	625016	2	Standard
[> Ge-1	72		ug/L			67162	60591	1	KED
| Ni	60	204.922	ug/L	3.829	1	32	204319	0	KED
| Ni	62	202.766	ug/L	3.408	1	4	32144	0	KED
| Cu	63	201.240	ug/L	1.219	0	37	547583	1	KED
| Cu	65	200.360	ug/L	2.236	1	18	273147	0	KED
| Zn	66	199.622	ug/L	3.113	1	22	75288	1	KED
| Zn	67	198.952	ug/L	2.098	1	3	12874	1	KED
| As	75	202.537	ug/L	3.136	1	4	48333	0	KED
| Se-1	78	194.931	ug/L	1.900	0	8	5122	1	KED
Y	89		ug/L			795983	748998	3	Standard
Kr	83		ug/L			97	223	6	Standard
[> In-1	115		ug/L			19169	17465	1	KED
| Cd	111	199.189	ug/L	1.910	0	4	51311	0	KED
| Cd	114	200.012	ug/L	3.999	1	1	132091	1	KED
[> In	115		ug/L			1223057	1093426	1	Standard
| Ag	107	203.907	ug/L	6.052	2	80	3673609	1	Standard
| Ba	135	199.841	ug/L	3.888	1	12	965756	0	Standard
| Ba	137	199.391	ug/L	3.230	1	23	1707260	0	Standard
[> Tb	159		ug/L			1508905	1367285	0	Standard
| Pb	208	207.909	ug/L	2.554	1	219	9300463	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2

Sample Dil Factor: DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 12:03:25

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	28789	3	Standard
Cl	37		ug/L			5094349	5570595	2	Standard
[> Sc	45		ug/L			1550094	1386858	0	Standard
| Cr	52	299.158	ug/L	6.128	2	25522	7340424	1	Standard
| Cr	53	295.262	ug/L	3.960	1	1056	863765	1	Standard
[> Ge-1	72		ug/L			67162	59769	1	KED
| Ni	60	302.243	ug/L	4.131	1	32	297259	1	KED
| Ni	62	304.160	ug/L	6.996	2	4	47555	0	KED
| Cu	63	299.740	ug/L	4.777	1	37	804544	2	KED
| Cu	65	292.282	ug/L	2.268	0	18	393107	2	KED
| Zn	66	291.417	ug/L	9.818	3	22	108368	1	KED
| Zn	67	286.778	ug/L	1.231	0	3	18303	1	KED
| As	75	303.018	ug/L	4.125	1	4	71326	0	KED
| Se-1	78	288.933	ug/L	1.552	0	8	7485	1	KED
Y	89		ug/L			795983	709115	3	Standard
Kr	83		ug/L			97	377	3	Standard
[> In-1	115		ug/L			19169	17147	2	KED
| Cd	111	297.138	ug/L	9.867	3	4	75112	1	KED
| Cd	114	295.171	ug/L	10.570	3	1	191296	1	KED
[> In	115		ug/L			1223057	1047195	1	Standard
| Ag	107	286.465	ug/L	6.530	2	80	4943299	2	Standard
| Ba	135	299.610	ug/L	9.862	3	12	1386506	2	Standard
| Ba	137	290.575	ug/L	1.748	0	23	2383322	2	Standard
[> Tb	159		ug/L			1508905	1332343	2	Standard
| Pb	208	297.268	ug/L	8.462	2	219	12954501	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 12:10:43

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	27838	1	Standard
Cl	37		ug/L			5094349	5543905	0	Standard
[> Sc	45		ug/L			1550094	1505745	1	Standard
| Cr	52	0.063	ug/L	0.064	101	25522	26455	5	Standard
| Cr	53	0.000	ug/L	0.014	3095	1056	1027	2	Standard
[> Ge-1	72		ug/L			67162	68876	3	KED
| Ni	60	0.030	ug/L	0.013	42	32	67	24	KED
| Ni	62	0.052	ug/L	0.013	25	4	13	20	KED
| Cu	63	0.043	ug/L	0.005	10	37	172	10	KED
| Cu	65	0.038	ug/L	0.002	6	18	77	1	KED
| Zn	66	0.318	ug/L	0.063	19	22	159	14	KED
| Zn	67	0.310	ug/L	0.032	10	3	26	7	KED
| As	75	0.028	ug/L	0.009	34	4	12	19	KED
| Se-1	78	0.090	ug/L	0.096	107	8	10	24	KED
Y	89		ug/L			795983	771310	2	Standard
Kr	83		ug/L			97	85	21	Standard
[> In-1	115		ug/L			19169	19535	1	KED
| Cd	111	0.015	ug/L	0.005	31	4	8	16	KED
| Cd	114	0.023	ug/L	0.007	31	1	18	30	KED
[> In	115		ug/L			1223057	1172608	1	Standard
| Ag	107	0.020	ug/L	0.002	7	80	466	6	Standard
| Ba	135	0.039	ug/L	0.002	4	12	213	3	Standard
| Ba	137	0.036	ug/L	0.002	5	23	350	7	Standard
[> Tb	159		ug/L			1508905	1455829	2	Standard
| Pb	208	0.195	ug/L	0.005	2	219	9516	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 12:16:28

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			23916	27916	2	Standard
Cl	37	ug/L			5094349	5455479	0	Standard
> Sc	45	ug/L			1550094	1512352	2	Standard
| Cr	52	0.027	0.061	224	25522	25597	3	Standard
| Cr	53	-0.025	0.009	36	1056	951	2	Standard
> Ge-1	72	ug/L			67162	67523	1	KED
| Ni	60	0.007	0.009	128	32	40	24	KED
| Ni	62	0.011	0.012	114	4	6	34	KED
| Cu	63	0.026	0.007	27	37	116	18	KED
| Cu	65	0.017	0.002	14	18	43	7	KED
| Zn	66	0.347	0.074	21	22	168	17	KED
| Zn	67	0.334	0.065	19	3	27	17	KED
| As	75	0.001	0.003	236	4	5	14	KED
| Se-1	78	0.065	0.091	141	8	10	25	KED
Y	89	ug/L			795983	774590	2	Standard
Kr	83	ug/L			97	80	10	Standard
> In-1	115	ug/L			19169	19506	2	KED
| Cd	111	-0.011	0.004	34	4	1	86	KED
| Cd	114	0.007	0.005	78	1	6	63	KED
> In	115	ug/L			1223057	1160844	2	Standard
| Ag	107	0.003	0.002	59	80	134	25	Standard
| Ba	135	0.019	0.004	22	12	107	18	Standard
| Ba	137	0.019	0.002	10	23	195	9	Standard
> Tb	159	ug/L			1508905	1475204	2	Standard
| Pb	208	0.178	0.006	3	219	8777	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 12:21:03

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	27876	1	Standard
Cl	37		ug/L			5094349	5506666	1	Standard
[> Sc	45		ug/L			1550094	1505133	0	Standard
| Cr	52	0.006	ug/L	0.016	279	25522	24936	2	Standard
| Cr	53	-0.050	ug/L	0.004	8	1056	867	2	Standard
[> Ge-1	72		ug/L			67162	66632	2	KED
| Ni	60	0.006	ug/L	0.007	118	32	38	18	KED
| Ni	62	0.000	ug/L	0.006	4704	4	4	24	KED
| Cu	63	0.032	ug/L	0.003	8	37	132	7	KED
| Cu	65	0.040	ug/L	0.003	7	18	78	7	KED
| Zn	66	0.180	ug/L	0.053	29	22	97	20	KED
| Zn	67	0.161	ug/L	0.028	17	3	15	12	KED
| As	75	0.005	ug/L	0.005	92	4	6	19	KED
| Se-1	78	0.047	ug/L	0.059	125	8	9	16	KED
Y	89		ug/L			795983	774571	4	Standard
Kr	83		ug/L			97	79	10	Standard
[> In-1	115		ug/L			19169	19159	1	KED
| Cd	111	-0.002	ug/L	0.003	153	4	3	25	KED
| Cd	114	0.004	ug/L	0.006	132	1	4	93	KED
[> In	115		ug/L			1223057	1152761	1	Standard
| Ag	107	0.003	ug/L	0.001	36	80	129	16	Standard
| Ba	135	0.014	ug/L	0.004	25	12	82	20	Standard
| Ba	137	0.014	ug/L	0.001	8	23	152	7	Standard
[> Tb	159		ug/L			1508905	1471581	1	Standard
| Pb	208	0.141	ug/L	0.002	1	219	6991	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 12:30:56

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			23916	23366	0	Standard
Cl	37	ug/L			5094349	6208119	1	Standard
[> Sc	45	ug/L			1550094	1540412	2	Standard
| Cr	52	ug/L	0.021	1014	25522	25316	5	Standard
| Cr	53	ug/L	0.141	2	1056	18491	3	Standard
[> Ge-1	72	ug/L			67162	68994	2	KED
| Ni	60	ug/L	0.009	178	32	27	37	KED
| Ni	62	ug/L	0.043	204	4	8	93	KED
| Cu	63	ug/L	0.003	54	37	53	18	KED
| Cu	65	ug/L	0.011	199	18	27	64	KED
| Zn	66	ug/L	0.040	61	22	51	32	KED
| Zn	67	ug/L	0.099	78	3	13	57	KED
| As	75	ug/L	0.009	154	4	6	40	KED
| Se-1	78	ug/L	0.078	417	8	8	26	KED
Y	89	ug/L			795983	793936	3	Standard
Kr	83	ug/L			97	85	26	Standard
[> In-1	115	ug/L			19169	19554	1	KED
| Cd	111	ug/L	0.005	64	4	2	65	KED
| Cd	114	ug/L	0.008	203	1	4	143	KED
[> In	115	ug/L			1223057	1195762	1	Standard
| Ag	107	ug/L	0.000	23	80	104	4	Standard
| Ba	135	ug/L	0.001	250	12	13	28	Standard
| Ba	137	ug/L	0.001	105	23	34	37	Standard
[> Tb	159	ug/L			1508905	1468520	0	Standard
| Pb	208	ug/L	0.001	12	219	557	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 12:36:57

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			23916	22520	2	Standard
Cl	37	ug/L			5094349	5752781	4	Standard
[> Sc	45	ug/L			1550094	1507629	2	Standard
| Cr	52	ug/L	0.027	75	25522	23883	4	Standard
| Cr	53	ug/L	0.178	6	1056	9178	6	Standard
[> Ge-1	72	ug/L			67162	66065	2	KED
| Ni	60	ug/L	0.011	408	32	29	41	KED
| Ni	62	ug/L	0.007	1326	4	4	24	KED
| Cu	63	ug/L	0.003	72	37	47	18	KED
| Cu	65	ug/L	0.004	2027	18	17	26	KED
| Zn	66	ug/L	0.014	22	22	48	13	KED
| Zn	67	ug/L	0.040	109	3	6	45	KED
| As	75	ug/L	0.005	159	4	5	26	KED
| Se-1	78	ug/L	0.040	91	8	9	10	KED
Y	89	ug/L			795983	767534	3	Standard
Kr	83	ug/L			97	92	13	Standard
[> In-1	115	ug/L			19169	18705	3	KED
| Cd	111	ug/L	0.007	98	4	2	89	KED
| Cd	114	ug/L	0.003	42	1	5	33	KED
[> In	115	ug/L			1223057	1179006	2	Standard
| Ag	107	ug/L	0.015	159	80	271	114	Standard
| Ba	135	ug/L	0.011	211	12	38	147	Standard
| Ba	137	ug/L	0.008	183	23	64	119	Standard
[> Tb	159	ug/L			1508905	1462012	1	Standard
| Pb	208	ug/L	0.007	73	219	674	49	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 12:41:33

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	25921	0	Standard
Cl	37		ug/L			5094349	5884588	0	Standard
[> Sc	45		ug/L			1550094	1486836	1	Standard
| Cr	52	48.635	ug/L	0.581	1	25522	1300081	3	Standard
| Cr	53	50.405	ug/L	1.212	2	1056	158877	0	Standard
[> Ge-1	72		ug/L			67162	65191	1	KED
| Ni	60	51.007	ug/L	0.645	1	32	54753	2	KED
| Ni	62	50.009	ug/L	0.643	1	4	8533	0	KED
| Cu	63	50.559	ug/L	0.336	0	37	148054	1	KED
| Cu	65	50.573	ug/L	1.064	2	18	74210	3	KED
| Zn	66	51.310	ug/L	0.707	1	22	20839	2	KED
| Zn	67	49.330	ug/L	1.723	3	3	3437	4	KED
| As	75	50.054	ug/L	0.182	0	4	12856	0	KED
| Se-1	78	50.369	ug/L	0.610	1	8	1429	0	KED
Y	89		ug/L			795983	766193	3	Standard
Kr	83		ug/L			97	102	3	Standard
[> In-1	115		ug/L			19169	18622	1	KED
| Cd	111	51.306	ug/L	1.133	2	4	14093	0	KED
| Cd	114	51.291	ug/L	1.123	2	1	36114	0	KED
[> In	115		ug/L			1223057	1119055	2	Standard
| Ag	107	52.113	ug/L	1.893	3	80	960527	1	Standard
| Ba	135	50.993	ug/L	1.666	3	12	252108	0	Standard
| Ba	137	50.195	ug/L	1.961	3	23	439617	0	Standard
[> Tb	159		ug/L			1508905	1439895	1	Standard
| Pb	208	51.195	ug/L	0.617	1	219	2411721	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 12:48:52

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			23916	23538	0	Standard
Cl	37	ug/L			5094349	5554956	1	Standard
[> Sc	45	ug/L			1550094	1470748	1	Standard
| Cr	52	ug/L	0.018	175	25522	23951	2	Standard
| Cr	53	ug/L	0.037	3	1056	4236	3	Standard
[> Ge-1	72	ug/L			67162	65996	0	KED
| Ni	60	ug/L	0.002	15	32	17	12	KED
| Ni	62	ug/L	0.017	161	4	2	114	KED
| Cu	63	ug/L	0.003	115	37	45	22	KED
| Cu	65	ug/L	0.005	228	18	21	36	KED
| Zn	66	ug/L	0.010	37	22	33	13	KED
| Zn	67	ug/L	0.041	520	3	3	91	KED
| As	75	ug/L	0.002	38	4	6	9	KED
| Se-1	78	ug/L	0.142	121	8	11	35	KED
Y	89	ug/L			795983	764436	5	Standard
Kr	83	ug/L			97	74	5	Standard
[> In-1	115	ug/L			19169	18930	2	KED
| Cd	111	ug/L	0.007	314	4	3	50	KED
| Cd	114	ug/L	0.006	116	1	5	87	KED
[> In	115	ug/L			1223057	1150125	2	Standard
| Ag	107	ug/L	0.000	16	80	109	2	Standard
| Ba	135	ug/L	0.001	88	12	17	29	Standard
| Ba	137	ug/L	0.001	46	23	33	17	Standard
[> Tb	159	ug/L			1508905	1433829	0	Standard
| Pb	208	ug/L	0.000	8	219	456	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 12:55:44

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	23605	2	Standard
Cl	37		ug/L			5094349	5464849	3	Standard
[> Sc	45		ug/L			1550094	1471291	1	Standard
| Cr	52	-0.019	ug/L	0.022	114	25522	23728	1	Standard
| Cr	53	0.761	ug/L	0.035	4	1056	3361	2	Standard
[> Ge-1	72		ug/L			67162	66716	0	KED
| Ni	60	-0.004	ug/L	0.008	219	32	27	32	KED
| Ni	62	0.000	ug/L	0.006	3855	4	4	24	KED
| Cu	63	0.015	ug/L	0.007	45	37	83	24	KED
| Cu	65	0.011	ug/L	0.004	38	18	34	17	KED
| Zn	66	0.117	ug/L	0.031	26	22	71	17	KED
| Zn	67	0.081	ug/L	0.081	100	3	9	60	KED
| As	75	0.003	ug/L	0.005	148	4	5	21	KED
| Se-1	78	0.078	ug/L	0.083	105	8	10	23	KED
Y	89		ug/L			795983	743471	0	Standard
Kr	83		ug/L			97	68	7	Standard
[> In-1	115		ug/L			19169	19595	2	KED
| Cd	111	0.001	ug/L	0.008	1368	4	4	52	KED
| Cd	114	0.012	ug/L	0.012	105	1	10	93	KED
[> In	115		ug/L			1223057	1146634	2	Standard
| Ag	107	0.001	ug/L	0.001	61	80	98	16	Standard
| Ba	135	0.004	ug/L	0.000	12	12	31	9	Standard
| Ba	137	0.004	ug/L	0.002	47	23	55	30	Standard
[> Tb	159		ug/L			1508905	1433360	3	Standard
| Pb	208	0.037	ug/L	0.003	7	219	1944	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:00:18

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			23916	22449	1	Standard
Cl	37	ug/L			5094349	5479092	1	Standard
> Sc	45	ug/L			1550094	1501866	0	Standard
| Cr	52	ug/L	0.013	49	25522	24059	1	Standard
| Cr	53	ug/L	0.013	1	1056	3093	1	Standard
> Ge-1	72	ug/L			67162	66568	3	KED
| Ni	60	ug/L	0.007	4039	32	31	19	KED
| Ni	62	ug/L	0.023	65882	4	4	89	KED
| Cu	63	ug/L	0.003	36	37	57	10	KED
| Cu	65	ug/L	0.006	59	18	32	23	KED
| Zn	66	ug/L	0.003	2	22	57	1	KED
| Zn	67	ug/L	0.020	27	3	8	12	KED
| As	75	ug/L	0.005	64	4	6	17	KED
| Se-1	78	ug/L	0.095	379	8	8	30	KED
Y	89	ug/L			795983	785038	0	Standard
Kr	83	ug/L			97	71	4	Standard
> In-1	115	ug/L			19169	19007	1	KED
| Cd	111	ug/L	0.004	37	4	1	69	KED
| Cd	114	ug/L	0.002	89	1	2	45	KED
> In	115	ug/L			1223057	1147324	3	Standard
| Ag	107	ug/L	0.001	66	80	99	14	Standard
| Ba	135	ug/L	0.001	32	12	29	22	Standard
| Ba	137	ug/L	0.001	17	23	52	11	Standard
> Tb	159	ug/L			1508905	1411563	0	Standard
| Pb	208	ug/L	0.001	1	219	1860	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:04:52

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	22396	1	Standard
Cl	37		ug/L			5094349	5393472	1	Standard
[> Sc	45		ug/L			1550094	1423945	1	Standard
| Cr	52	-0.013	ug/L	0.047	369	25522	23119	3	Standard
| Cr	53	0.615	ug/L	0.029	4	1056	2816	1	Standard
[> Ge-1	72		ug/L			67162	65938	0	KED
| Ni	60	0.001	ug/L	0.007	624	32	33	23	KED
| Ni	62	0.015	ug/L	0.034	222	4	6	83	KED
| Cu	63	0.009	ug/L	0.002	24	37	62	10	KED
| Cu	65	0.016	ug/L	0.003	21	18	41	12	KED
| Zn	66	0.063	ug/L	0.022	35	22	48	18	KED
| Zn	67	0.118	ug/L	0.031	26	3	12	18	KED
| As	75	0.002	ug/L	0.002	92	4	5	9	KED
| Se-1	78	0.071	ug/L	0.064	88	8	10	19	KED
Y	89		ug/L			795983	750969	3	Standard
Kr	83		ug/L			97	74	2	Standard
[> In-1	115		ug/L			19169	19147	5	KED
| Cd	111	-0.006	ug/L	0.007	126	4	2	66	KED
| Cd	114	0.002	ug/L	0.001	75	1	2	44	KED
[> In	115		ug/L			1223057	1120948	1	Standard
| Ag	107	0.001	ug/L	0.001	115	80	90	19	Standard
| Ba	135	0.004	ug/L	0.002	39	12	33	26	Standard
| Ba	137	0.004	ug/L	0.000	6	23	55	5	Standard
[> Tb	159		ug/L			1508905	1389545	2	Standard
| Pb	208	0.036	ug/L	0.002	4	219	1861	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:10:21

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	23416	1	Standard
Cl	37		ug/L			5094349	5384165	2	Standard
[> Sc	45		ug/L			1550094	1439970	2	Standard
| Cr	52	-0.032	ug/L	0.029	92	25522	22894	2	Standard
| Cr	53	0.527	ug/L	0.008	1	1056	2579	1	Standard
[> Ge-1	72		ug/L			67162	66681	2	KED
| Ni	60	-0.003	ug/L	0.004	164	32	29	15	KED
| Ni	62	0.008	ug/L	0.019	249	4	5	57	KED
| Cu	63	0.009	ug/L	0.005	53	37	64	20	KED
| Cu	65	0.011	ug/L	0.003	23	18	34	13	KED
| Zn	66	0.061	ug/L	0.021	34	22	48	19	KED
| Zn	67	0.072	ug/L	0.068	94	3	8	53	KED
| As	75	0.000	ug/L	0.010	3489	4	4	55	KED
| Se-1	78	0.035	ug/L	0.048	135	8	9	13	KED
Y	89		ug/L			795983	749146	1	Standard
Kr	83		ug/L			97	81	6	Standard
[> In-1	115		ug/L			19169	18911	2	KED
| Cd	111	-0.007	ug/L	0.002	28	4	2	21	KED
| Cd	114	0.003	ug/L	0.002	58	1	3	35	KED
[> In	115		ug/L			1223057	1125134	3	Standard
| Ag	107	0.001	ug/L	0.000	54	80	86	7	Standard
| Ba	135	0.003	ug/L	0.002	60	12	27	34	Standard
| Ba	137	0.003	ug/L	0.001	25	23	45	14	Standard
[> Tb	159		ug/L			1508905	1422037	1	Standard
| Pb	208	0.034	ug/L	0.001	2	219	1786	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:15:20

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	22740	2	Standard
Cl	37		ug/L			5094349	5387550	0	Standard
[> Sc	45		ug/L			1550094	1455466	0	Standard
| Cr	52	-0.022	ug/L	0.014	61	25522	23388	1	Standard
| Cr	53	0.471	ug/L	0.006	1	1056	2436	1	Standard
[> Ge-1	72		ug/L			67162	65812	2	KED
| Ni	60	-0.008	ug/L	0.007	91	32	22	33	KED
| Ni	62	0.008	ug/L	0.020	245	4	5	57	KED
| Cu	63	0.007	ug/L	0.003	44	37	59	19	KED
| Cu	65	0.012	ug/L	0.005	41	18	35	22	KED
| Zn	66	0.065	ug/L	0.015	22	22	48	9	KED
| Zn	67	0.101	ug/L	0.080	79	3	10	50	KED
| As	75	-0.001	ug/L	0.003	196	4	4	19	KED
| Se-1	78	0.067	ug/L	0.025	37	8	9	10	KED
Y	89		ug/L			795983	737525	3	Standard
Kr	83		ug/L			97	69	22	Standard
[> In-1	115		ug/L			19169	19011	0	KED
| Cd	111	-0.009	ug/L	0.006	65	4	1	86	KED
| Cd	114	0.002	ug/L	0.002	88	1	2	45	KED
[> In	115		ug/L			1223057	1129160	0	Standard
| Ag	107	0.001	ug/L	0.001	45	80	97	10	Standard
| Ba	135	0.004	ug/L	0.003	77	12	30	48	Standard
| Ba	137	0.002	ug/L	0.001	27	23	41	13	Standard
[> Tb	159		ug/L			1508905	1432127	1	Standard
| Pb	208	0.033	ug/L	0.001	2	219	1763	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:19:55

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23916	23050	3	Standard
Cl	37		ug/L			5094349	5399523	2	Standard
[> Sc	45		ug/L			1550094	1411531	2	Standard
| Cr	52	0.005	ug/L	0.024	452	25522	23368	2	Standard
| Cr	53	0.467	ug/L	0.013	2	1056	2351	1	Standard
[> Ge-1	72		ug/L			67162	66033	2	KED
| Ni	60	0.002	ug/L	0.004	198	32	34	14	KED
| Ni	62	0.004	ug/L	0.013	312	4	5	43	KED
| Cu	63	0.006	ug/L	0.003	47	37	53	16	KED
| Cu	65	0.009	ug/L	0.010	102	18	31	42	KED
| Zn	66	0.100	ug/L	0.025	25	22	63	14	KED
| Zn	67	0.055	ug/L	0.029	53	3	7	25	KED
| As	75	-0.001	ug/L	0.002	149	4	4	11	KED
| Se-1	78	0.159	ug/L	0.149	93	8	12	34	KED
Y	89		ug/L			795983	756794	3	Standard
Kr	83		ug/L			97	85	6	Standard
[> In-1	115		ug/L			19169	19159	3	KED
| Cd	111	-0.007	ug/L	0.005	80	4	2	57	KED
| Cd	114	0.002	ug/L	0.002	93	1	2	45	KED
[> In	115		ug/L			1223057	1127015	2	Standard
| Ag	107	0.001	ug/L	0.001	110	80	84	13	Standard
| Ba	135	0.004	ug/L	0.001	24	12	29	15	Standard
| Ba	137	0.003	ug/L	0.002	63	23	46	35	Standard
[> Tb	159		ug/L			1508905	1423901	0	Standard
| Pb	208	0.034	ug/L	0.002	5	219	1798	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:24:31

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L				22497	0	Standard
Cl	37		ug/L				5295021	0	Standard
[> Sc	45		ug/L				1418735	2	Standard
| Cr	52		ug/L				23249	4	Standard
| Cr	53		ug/L				2296	0	Standard
[> Ge-1	72		ug/L				66481	1	KED
| Ni	60		ug/L				15	36	KED
| Ni	62		ug/L				5	57	KED
| Cu	63		ug/L				47	22	KED
| Cu	65		ug/L				21	53	KED
| Zn	66		ug/L				29	25	KED
| Zn	67		ug/L				4	24	KED
| As	75		ug/L				3	57	KED
| Se-1	78		ug/L				11	6	KED
Y	89		ug/L				752471	3	Standard
Kr	83		ug/L				79	7	Standard
[> In-1	115		ug/L				19356	2	KED
| Cd	111		ug/L				1	43	KED
| Cd	114		ug/L				3	50	KED
[> In	115		ug/L				1103678	3	Standard
| Ag	107		ug/L				92	16	Standard
| Ba	135		ug/L				10	10	Standard
| Ba	137		ug/L				24	12	Standard
[> Tb	159		ug/L				1402493	2	Standard
| Pb	208		ug/L				468	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:29:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	23735	2	Standard
Cl	37		ug/L			5295021	5691480	0	Standard
[> Sc	45		ug/L			1418735	1462878	0	Standard
| Cr	52	51.538	ug/L	1.035	2	23249	1353784	2	Standard
| Cr	53	50.210	ug/L	0.404	0	2296	157127	0	Standard
[> Ge-1	72		ug/L			66481	64569	1	KED
| Ni	60	51.719	ug/L	0.602	1	15	54960	0	KED
| Ni	62	50.723	ug/L	0.829	1	5	8574	1	KED
| Cu	63	51.611	ug/L	0.717	1	47	149678	1	KED
| Cu	65	51.482	ug/L	1.190	2	21	74795	0	KED
| Zn	66	51.358	ug/L	1.440	2	29	20661	2	KED
| Zn	67	50.413	ug/L	0.943	1	4	3479	2	KED
| As	75	50.775	ug/L	0.825	1	3	12914	1	KED
| Se-1	78	51.254	ug/L	1.450	2	11	1443	1	KED
Y	89		ug/L			752471	738197	3	Standard
Kr	83		ug/L			79	81	14	Standard
[> In-1	115		ug/L			19356	18670	1	KED
| Cd	111	51.555	ug/L	0.538	1	1	14196	0	KED
| Cd	114	51.561	ug/L	1.086	2	3	36401	1	KED
[> In	115		ug/L			1103678	1111409	2	Standard
| Ag	107	51.525	ug/L	2.954	5	92	942902	3	Standard
| Ba	135	50.390	ug/L	1.333	2	10	247470	1	Standard
| Ba	137	50.177	ug/L	1.766	3	24	436519	0	Standard
[> Tb	159		ug/L			1402493	1388502	0	Standard
| Pb	208	53.406	ug/L	1.397	2	468	2426689	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:36:05

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	23101	4	Standard
Cl	37		ug/L			5295021	5527805	1	Standard
[> Sc	45		ug/L			1418735	1485590	1	Standard
| Cr	52	-0.022	ug/L	0.048	221	23249	23761	3	Standard
| Cr	53	-0.134	ug/L	0.003	2	2296	1985	2	Standard
[> Ge-1	72		ug/L			66481	68179	1	KED
| Ni	60	0.001	ug/L	0.009	635	15	17	54	KED
| Ni	62	0.014	ug/L	0.023	166	5	8	48	KED
| Cu	63	-0.003	ug/L	0.004	144	47	40	33	KED
| Cu	65	0.000	ug/L	0.004	5010	21	22	27	KED
| Zn	66	0.025	ug/L	0.024	93	29	41	23	KED
| Zn	67	0.059	ug/L	0.075	126	4	8	61	KED
| As	75	0.004	ug/L	0.003	77	3	4	14	KED
| Se-1	78	0.012	ug/L	0.034	284	11	11	8	KED
Y	89		ug/L			752471	766586	7	Standard
Kr	83		ug/L			79	69	4	Standard
[> In-1	115		ug/L			19356	19059	0	KED
| Cd	111	0.006	ug/L	0.006	102	1	2	57	KED
| Cd	114	0.001	ug/L	0.007	707	3	4	110	KED
[> In	115		ug/L			1103678	1129151	2	Standard
| Ag	107	0.002	ug/L	0.001	85	92	124	20	Standard
| Ba	135	0.002	ug/L	0.000	18	10	20	10	Standard
| Ba	137	0.000	ug/L	0.001	314	24	27	37	Standard
[> Tb	159		ug/L			1402493	1423019	1	Standard
| Pb	208	0.001	ug/L	0.000	50	468	513	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:40:40

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	24319	2	Standard
Cl	37		ug/L			5295021	5567954	1	Standard
[> Sc	45		ug/L			1418735	1534290	0	Standard
| Cr	52	0.520	ug/L	0.004	0	23249	39206	1	Standard
| Cr	53	0.329	ug/L	0.022	6	2296	3546	1	Standard
[> Ge-1	72		ug/L			66481	66095	2	KED
| Ni	60	0.548	ug/L	0.040	7	15	612	9	KED
| Ni	62	0.539	ug/L	0.064	11	5	99	13	KED
| Cu	63	0.526	ug/L	0.014	2	47	1608	4	KED
| Cu	65	0.535	ug/L	0.004	0	21	817	3	KED
| Zn	66	4.089	ug/L	0.161	3	29	1710	1	KED
| Zn	67	3.889	ug/L	0.147	3	4	278	2	KED
| As	75	0.190	ug/L	0.012	6	3	53	7	KED
| Se-1	78	0.449	ug/L	0.163	36	11	23	21	KED
Y	89		ug/L			752471	808820	3	Standard
Kr	83		ug/L			79	70	12	Standard
[> In-1	115		ug/L			19356	19409	1	KED
| Cd	111	0.123	ug/L	0.013	10	1	36	9	KED
| Cd	114	0.106	ug/L	0.008	7	3	81	8	KED
[> In	115		ug/L			1103678	1138980	1	Standard
| Ag	107	0.217	ug/L	0.004	1	92	4164	1	Standard
| Ba	135	0.493	ug/L	0.015	2	10	2492	1	Standard
| Ba	137	0.483	ug/L	0.022	4	24	4337	4	Standard
[> Tb	159		ug/L			1402493	1433370	3	Standard
| Pb	208	0.100	ug/L	0.004	3	468	5170	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:45:59

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode	
C	13	ug/L			22497	131408	2	Standard	
Cl	37	ug/L			5295021	14237488	2	Standard	
[> Sc	45	ug/L			1418735	1521260	1	Standard	
| Cr	52	0.608	ug/L	0.004	0	23249	41239	1	Standard
| Cr	53	4.835	ug/L	0.061	1	2296	17962	2	Standard
[> Ge-1	72		ug/L			66481	62150	0	KED
| Ni	60	0.053	ug/L	0.005	9	15	68	7	KED
| Ni	62	0.108	ug/L	0.042	39	5	22	30	KED
| Cu	63	0.076	ug/L	0.005	6	47	255	5	KED
| Cu	65	0.072	ug/L	0.015	20	21	121	16	KED
| Zn	66	0.411	ug/L	0.045	11	29	186	9	KED
| Zn	67	0.397	ug/L	0.086	21	4	30	18	KED
| As	75	0.031	ug/L	0.003	9	3	11	6	KED
| Se-1	78	-0.056	ug/L	0.147	263	11	8	44	KED
Y	89		ug/L			752471	755384	2	Standard
Kr	83		ug/L			79	246	3	Standard
[> In-1	115		ug/L			19356	17946	0	KED
| Cd	111	0.050	ug/L	0.013	26	1	14	24	KED
| Cd	114	0.033	ug/L	0.003	10	3	25	8	KED
[> In	115		ug/L			1103678	1107745	0	Standard
| Ag	107	0.017	ug/L	0.002	11	92	397	8	Standard
| Ba	135	0.043	ug/L	0.003	7	10	223	7	Standard
| Ba	137	0.037	ug/L	0.002	5	24	342	4	Standard
[> Tb	159		ug/L			1402493	1410574	1	Standard
| Pb	208	0.041	ug/L	0.003	6	468	2369	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:50:33

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	130493	1	Standard
Cl	37		ug/L			5295021	15077172	1	Standard
[> Sc	45		ug/L			1418735	1589633	0	Standard
| Cr	52	20.145	ug/L	0.557	2	23249	590820	2	Standard
| Cr	53	23.287	ug/L	0.640	2	2296	80574	2	Standard
[> Ge-1	72		ug/L			66481	60179	0	KED
| Ni	60	20.398	ug/L	0.479	2	15	20212	1	KED
| Ni	62	20.239	ug/L	0.484	2	5	3191	1	KED
| Cu	63	19.991	ug/L	0.301	1	47	54064	1	KED
| Cu	65	20.170	ug/L	0.183	0	21	27330	0	KED
| Zn	66	19.304	ug/L	0.544	2	29	7257	3	KED
| Zn	67	18.125	ug/L	1.517	8	4	1168	7	KED
| As	75	19.523	ug/L	0.446	2	3	4630	1	KED
| Se-1	78	-0.020	ug/L	0.130	654	11	9	35	KED
Y	89		ug/L			752471	770687	4	Standard
Kr	83		ug/L			79	248	13	Standard
[> In-1	115		ug/L			19356	17533	3	KED
| Cd	111	19.283	ug/L	0.587	3	1	4984	1	KED
| Cd	114	19.311	ug/L	0.662	3	3	12798	0	KED
[> In	115		ug/L			1103678	1135410	0	Standard
| Ag	107	19.665	ug/L	0.632	3	92	368052	3	Standard
| Ba	135	0.031	ug/L	0.001	4	10	165	4	Standard
| Ba	137	0.021	ug/L	0.002	10	24	215	9	Standard
[> Tb	159		ug/L			1402493	1418401	2	Standard
| Pb	208	0.027	ug/L	0.002	8	468	1740	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:55:08

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	27660	1	Standard
Cl	37		ug/L			5295021	5820800	0	Standard
[> Sc	45		ug/L			1418735	1456878	0	Standard
| Cr	52	191.971	ug/L	4.351	2	23249	4956677	2	Standard
| Cr	53	196.558	ug/L	3.260	1	2296	605739	1	Standard
[> Ge-1	72		ug/L			66481	58100	0	KED
| Ni	60	206.130	ug/L	3.075	1	15	197096	1	KED
| Ni	62	203.931	ug/L	0.469	0	5	31005	0	KED
| Cu	63	204.655	ug/L	6.055	2	47	534029	3	KED
| Cu	65	204.453	ug/L	2.896	1	21	267305	1	KED
| Zn	66	204.367	ug/L	4.393	2	29	73925	2	KED
| Zn	67	193.175	ug/L	5.248	2	4	11987	2	KED
| As	75	203.290	ug/L	1.849	0	3	46523	0	KED
| Se-1	78	196.582	ug/L	1.840	0	11	4955	0	KED
Y	89		ug/L			752471	735060	3	Standard
Kr	83		ug/L			79	227	3	Standard
[> In-1	115		ug/L			19356	16711	1	KED
| Cd	111	202.306	ug/L	2.922	1	1	49857	0	KED
| Cd	114	203.616	ug/L	4.419	2	3	128651	0	KED
[> In	115		ug/L			1103678	1053875	4	Standard
| Ag	107	204.043	ug/L	10.592	5	92	3538702	0	Standard
| Ba	135	204.635	ug/L	9.784	4	10	952035	1	Standard
| Ba	137	193.807	ug/L	7.604	3	24	1597935	1	Standard
[> Tb	159		ug/L			1402493	1336670	1	Standard
| Pb	208	206.171	ug/L	3.004	1	468	9015390	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 13:59:42

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	27370	1	Standard
Cl	37		ug/L			5295021	5819505	1	Standard
[> Sc	45		ug/L			1418735	1408383	2	Standard
| Cr	52	293.904	ug/L	19.135	6	23249	7316498	4	Standard
| Cr	53	292.003	ug/L	7.356	2	2296	868572	2	Standard
[> Ge-1	72		ug/L			66481	57077	0	KED
| Ni	60	312.626	ug/L	7.433	2	15	293611	1	KED
| Ni	62	315.345	ug/L	0.754	0	5	47097	0	KED
| Cu	63	300.908	ug/L	1.931	0	47	771291	0	KED
| Cu	65	300.479	ug/L	5.382	1	21	385925	2	KED
| Zn	66	296.246	ug/L	2.448	0	29	105248	0	KED
| Zn	67	295.863	ug/L	4.454	1	4	18034	1	KED
| As	75	304.851	ug/L	1.437	0	3	68535	0	KED
| Se-1	78	292.419	ug/L	1.424	0	11	7237	0	KED
Y	89		ug/L			752471	710811	3	Standard
Kr	83		ug/L			79	419	19	Standard
[> In-1	115		ug/L			19356	16778	2	KED
| Cd	111	296.019	ug/L	6.522	2	1	73233	0	KED
| Cd	114	298.545	ug/L	4.843	1	3	189386	0	KED
[> In	115		ug/L			1103678	1062733	1	Standard
| Ag	107	283.433	ug/L	5.146	1	92	4964622	2	Standard
| Ba	135	287.792	ug/L	5.837	2	10	1351873	1	Standard
| Ba	137	283.483	ug/L	6.305	2	24	2359292	1	Standard
[> Tb	159		ug/L			1402493	1320042	1	Standard
| Pb	208	300.277	ug/L	7.598	2	468	12966864	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 14:07:00

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21832	1	Standard
Cl	37		ug/L			5295021	5882743	2	Standard
[> Sc	45		ug/L			1418735	1484843	3	Standard
| Cr	52	-0.020	ug/L	0.021	107	23249	23797	2	Standard
| Cr	53	-0.288	ug/L	0.015	5	2296	1501	2	Standard
[> Ge-1	72		ug/L			66481	64828	1	KED
| Ni	60	0.029	ug/L	0.009	32	15	46	21	KED
| Ni	62	0.005	ug/L	0.013	282	5	6	34	KED
| Cu	63	0.019	ug/L	0.006	32	47	100	16	KED
| Cu	65	0.019	ug/L	0.004	20	21	48	9	KED
| Zn	66	0.036	ug/L	0.029	78	29	43	26	KED
| Zn	67	0.084	ug/L	0.040	47	4	10	28	KED
| As	75	0.029	ug/L	0.015	50	3	11	33	KED
| Se-1	78	-0.058	ug/L	0.076	129	11	9	23	KED
Y	89		ug/L			752471	771165	5	Standard
Kr	83		ug/L			79	80	12	Standard
[> In-1	115		ug/L			19356	18926	1	KED
| Cd	111	0.030	ug/L	0.012	40	1	9	34	KED
| Cd	114	0.034	ug/L	0.017	48	3	27	41	KED
[> In	115		ug/L			1103678	1161767	1	Standard
| Ag	107	0.017	ug/L	0.002	10	92	414	6	Standard
| Ba	135	0.014	ug/L	0.001	9	10	85	9	Standard
| Ba	137	0.015	ug/L	0.001	5	24	158	3	Standard
[> Tb	159		ug/L			1402493	1433651	2	Standard
| Pb	208	0.014	ug/L	0.002	12	468	1124	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 14:11:36

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	24287	2	Standard
Cl	37		ug/L			5295021	5885229	0	Standard
[> Sc	45		ug/L			1418735	1459184	2	Standard
| Cr	52	51.851	ug/L	1.778	3	23249	1358040	2	Standard
| Cr	53	51.120	ug/L	2.344	4	2296	159436	2	Standard
[> Ge-1	72		ug/L			66481	63601	0	KED
| Ni	60	51.894	ug/L	0.980	1	15	54324	1	KED
| Ni	62	51.371	ug/L	0.553	1	5	8554	1	KED
| Cu	63	51.297	ug/L	1.314	2	47	146546	2	KED
| Cu	65	51.914	ug/L	1.074	2	21	74305	1	KED
| Zn	66	52.027	ug/L	0.528	1	29	20619	0	KED
| Zn	67	50.925	ug/L	1.557	3	4	3462	2	KED
| As	75	50.474	ug/L	0.630	1	3	12647	0	KED
| Se-1	78	50.712	ug/L	1.238	2	11	1407	2	KED
Y	89		ug/L			752471	787798	0	Standard
Kr	83		ug/L			79	100	21	Standard
[> In-1	115		ug/L			19356	18423	0	KED
| Cd	111	50.172	ug/L	0.551	1	1	13634	1	KED
| Cd	114	50.901	ug/L	0.249	0	3	35464	0	KED
[> In	115		ug/L			1103678	1124883	0	Standard
| Ag	107	51.555	ug/L	0.624	1	92	955868	1	Standard
| Ba	135	50.650	ug/L	0.690	1	10	251867	1	Standard
| Ba	137	50.426	ug/L	0.529	1	24	444282	1	Standard
[> Tb	159		ug/L			1402493	1390446	1	Standard
| Pb	208	53.322	ug/L	0.492	0	468	2426210	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 14:18:55

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	22935	3	Standard
Cl	37		ug/L			5295021	5595810	2	Standard
[> Sc	45		ug/L			1418735	1504767	7	Standard
| Cr	52	-0.016	ug/L	0.076	460	23249	24125	1	Standard
| Cr	53	-0.338	ug/L	0.038	11	2296	1359	2	Standard
[> Ge-1	72		ug/L			66481	64749	0	KED
| Ni	60	0.006	ug/L	0.004	58	15	22	17	KED
| Ni	62	-0.007	ug/L	0.006	96	5	4	24	KED
| Cu	63	0.001	ug/L	0.003	307	47	49	19	KED
| Cu	65	0.005	ug/L	0.008	156	21	28	41	KED
| Zn	66	0.189	ug/L	0.027	14	29	105	10	KED
| Zn	67	0.231	ug/L	0.176	76	4	20	60	KED
| As	75	0.012	ug/L	0.006	48	3	6	22	KED
| Se-1	78	0.011	ug/L	0.103	976	11	11	25	KED
Y	89		ug/L			752471	753638	3	Standard
Kr	83		ug/L			79	74	16	Standard
[> In-1	115		ug/L			19356	18238	2	KED
| Cd	111	0.007	ug/L	0.009	123	1	3	75	KED
| Cd	114	0.005	ug/L	0.004	83	3	6	41	KED
[> In	115		ug/L			1103678	1140129	2	Standard
| Ag	107	0.002	ug/L	0.001	21	92	140	8	Standard
| Ba	135	0.004	ug/L	0.001	24	10	29	16	Standard
| Ba	137	0.003	ug/L	0.001	43	24	48	19	Standard
[> Tb	159		ug/L			1402493	1427620	4	Standard
| Pb	208	0.002	ug/L	0.001	80	468	545	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0554-BLK1**

Sample Dil Factor: **20**

Comments:

Sample Date/Time: **Friday, September 21, 2018 14:25:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			22497	34920	3	Standard
Cl	37	ug/L			5295021	55563739	7	Standard
[> Sc	45	ug/L			1418735	1663428	2	Standard
| Cr	52	1.047	0.047	4	23249	57952	1	Standard
| Cr	53	36.222	0.891	2	2296	129588	0	Standard
[> Ge-1	72	ug/L			66481	71716	1	KED
| Ni	60	0.015	0.009	58	15	34	29	KED
| Ni	62	0.001	0.006	579	5	6	17	KED
| Cu	63	0.008	0.004	54	47	76	17	KED
| Cu	65	0.022	0.005	21	21	58	13	KED
| Zn	66	0.750	0.020	2	29	366	3	KED
| Zn	67	0.601	0.035	5	4	50	5	KED
| As	75	0.033	0.005	15	3	13	9	KED
| Se-1	78	-0.033	0.074	224	11	10	19	KED
| Y	89	ug/L			752471	822537	2	Standard
| Kr	83	ug/L			79	94	27	Standard
[> In-1	115	ug/L			19356	20886	0	KED
| Cd	111	0.006	0.007	121	1	3	69	KED
| Cd	114	0.006	0.002	41	3	8	22	KED
[> In	115	ug/L			1103678	1287733	2	Standard
| Ag	107	0.005	0.001	14	92	207	5	Standard
| Ba	135	0.006	0.001	23	10	46	16	Standard
| Ba	137	0.006	0.002	29	24	86	18	Standard
[> Tb	159	ug/L			1402493	1616777	3	Standard
| Pb	208	0.017	0.002	11	468	1424	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810287-02**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, September 21, 2018 14:29:53**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	28428	1	Standard
Cl	37		ug/L			5295021	22993309	4	Standard
> Sc	45		ug/L			1418735	1660917	2	Standard
| Cr	52	12.948	ug/L	0.383	2	23249	406344	0	Standard
| Cr	53	22.511	ug/L	0.753	3	2296	81424	0	Standard
> Ge-1	72		ug/L			66481	70706	2	KED
| Ni	60	18.723	ug/L	0.711	3	15	21784	0	KED
| Ni	62	18.877	ug/L	0.944	4	5	3495	3	KED
| Cu	63	12.737	ug/L	0.405	3	47	40468	0	KED
| Cu	65	12.600	ug/L	0.181	1	21	20063	1	KED
| Zn	66	40.820	ug/L	1.374	3	29	17981	0	KED
| Zn	67	40.073	ug/L	2.155	5	4	3026	2	KED
| As	75	13.973	ug/L	0.594	4	3	3892	1	KED
| Se-1	78	0.379	ug/L	0.180	47	11	23	21	KED
| Y	89		ug/L			752471	933993	4	Standard
| Kr	83		ug/L			79	91	10	Standard
> In-1	115		ug/L			19356	19806	1	KED
| Cd	111	1.293	ug/L	0.050	3	1	378	2	KED
| Cd	114	1.237	ug/L	0.009	0	3	930	1	KED
> In	115		ug/L			1103678	1216380	1	Standard
| Ag	107	0.178	ug/L	0.010	5	92	3665	4	Standard
| Ba	135	23.808	ug/L	0.684	2	10	127986	1	Standard
| Ba	137	23.443	ug/L	0.419	1	24	223341	2	Standard
> Tb	159		ug/L			1402493	1510480	1	Standard
| Pb	208	20.900	ug/L	0.267	1	468	1033327	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 1810287-03

Sample Dil Factor: 50

Comments:

Sample Date/Time: Friday, September 21, 2018 14:34:28

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	29148	2	Standard
Cl	37		ug/L			5295021	20417714	5	Standard
> Sc	45		ug/L			1418735	1648010	2	Standard
| Cr	52	11.124	ug/L	0.189	1	23249	350256	1	Standard
| Cr	53	19.944	ug/L	0.996	4	2296	71861	2	Standard
> Ge-1	72		ug/L			66481	69474	1	KED
| Ni	60	15.214	ug/L	0.107	0	15	17410	1	KED
| Ni	62	15.529	ug/L	0.320	2	5	2828	0	KED
| Cu	63	25.479	ug/L	0.616	2	47	79537	2	KED
| Cu	65	25.603	ug/L	0.481	1	21	40050	2	KED
| Zn	66	439.591	ug/L	7.557	1	29	190076	1	KED
| Zn	67	396.664	ug/L	8.982	2	4	29423	1	KED
| As	75	20.193	ug/L	0.222	1	3	5529	1	KED
| Se-1	78	0.247	ug/L	0.078	31	11	19	13	KED
| Y	89		ug/L			752471	882366	3	Standard
| Kr	83		ug/L			79	106	10	Standard
> In-1	115		ug/L			19356	20348	2	KED
| Cd	111	0.636	ug/L	0.052	8	1	192	5	KED
| Cd	114	0.583	ug/L	0.030	5	3	452	3	KED
> In	115		ug/L			1103678	1217095	5	Standard
| Ag	107	0.495	ug/L	0.004	0	92	10022	5	Standard
| Ba	135	24.432	ug/L	1.569	6	10	131177	1	Standard
| Ba	137	24.070	ug/L	0.840	3	24	229217	2	Standard
> Tb	159		ug/L			1402493	1510879	2	Standard
| Pb	208	93.045	ug/L	2.337	2	468	4598220	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810287-04**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, September 21, 2018 14:39:03**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	30106	3	Standard
Cl	37		ug/L			5295021	20983156	3	Standard
> Sc	45		ug/L			1418735	1674057	2	Standard
| Cr	52	11.507	ug/L	0.351	3	23249	367063	1	Standard
| Cr	53	20.243	ug/L	0.191	0	2296	74115	2	Standard
> Ge-1	72		ug/L			66481	69877	1	KED
| Ni	60	14.748	ug/L	0.217	1	15	16973	1	KED
| Ni	62	14.618	ug/L	0.222	1	5	2678	1	KED
| Cu	63	11.237	ug/L	0.255	2	47	35305	0	KED
| Cu	65	11.317	ug/L	0.354	3	21	17813	2	KED
| Zn	66	30.087	ug/L	0.757	2	29	13112	1	KED
| Zn	67	29.523	ug/L	1.368	4	4	2206	3	KED
| As	75	14.522	ug/L	0.217	1	3	4000	0	KED
| Se-1	78	0.254	ug/L	0.143	56	11	19	22	KED
| Y	89		ug/L			752471	924625	6	Standard
| Kr	83		ug/L			79	113	17	Standard
> In-1	115		ug/L			19356	20330	1	KED
| Cd	111	0.361	ug/L	0.019	5	1	109	4	KED
| Cd	114	0.350	ug/L	0.007	2	3	273	1	KED
> In	115		ug/L			1103678	1233065	3	Standard
| Ag	107	1.239	ug/L	0.074	6	92	25244	2	Standard
| Ba	135	20.785	ug/L	0.800	3	10	113206	1	Standard
| Ba	137	20.534	ug/L	0.540	2	24	198214	1	Standard
> Tb	159		ug/L			1402493	1552357	0	Standard
| Pb	208	20.772	ug/L	0.130	0	468	1055523	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810287-05**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, September 21, 2018 14:43:38**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	28169	2	Standard
Cl	37		ug/L			5295021	22294547	5	Standard
> Sc	45		ug/L			1418735	1675008	4	Standard
| Cr	52	11.393	ug/L	0.932	8	23249	363195	3	Standard
| Cr	53	20.957	ug/L	0.896	4	2296	76581	1	Standard
> Ge-1	72		ug/L			66481	70031	3	KED
| Ni	60	16.317	ug/L	0.775	4	15	18800	1	KED
| Ni	62	16.072	ug/L	0.739	4	5	2947	1	KED
| Cu	63	9.536	ug/L	0.252	2	47	30023	1	KED
| Cu	65	9.739	ug/L	0.503	5	21	15351	1	KED
| Zn	66	32.027	ug/L	1.011	3	29	13982	2	KED
| Zn	67	30.379	ug/L	1.838	6	4	2273	3	KED
| As	75	18.295	ug/L	0.705	3	3	5045	0	KED
| Se-1	78	0.348	ug/L	0.040	11	11	22	3	KED
| Y	89		ug/L			752471	868236	3	Standard
| Kr	83		ug/L			79	103	9	Standard
> In-1	115		ug/L			19356	19946	0	KED
| Cd	111	0.321	ug/L	0.005	1	1	95	1	KED
| Cd	114	0.348	ug/L	0.043	12	3	266	11	KED
> In	115		ug/L			1103678	1233526	3	Standard
| Ag	107	0.209	ug/L	0.007	3	92	4354	1	Standard
| Ba	135	20.186	ug/L	0.870	4	10	110003	2	Standard
| Ba	137	19.736	ug/L	0.451	2	24	190608	1	Standard
> Tb	159		ug/L			1402493	1503348	0	Standard
| Pb	208	17.181	ug/L	0.322	1	468	845590	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810287-06**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, September 21, 2018 14:48:12**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	29778	4	Standard
Cl	37		ug/L			5295021	22225900	5	Standard
[> Sc	45		ug/L			1418735	1666418	1	Standard
| Cr	52	12.710	ug/L	0.139	1	23249	400881	1	Standard
| Cr	53	21.649	ug/L	0.491	2	2296	78710	2	Standard
[> Ge-1	72		ug/L			66481	69465	1	KED
| Ni	60	16.307	ug/L	0.352	2	15	18652	1	KED
| Ni	62	16.452	ug/L	0.421	2	5	2995	1	KED
| Cu	63	10.615	ug/L	0.391	3	47	33164	4	KED
| Cu	65	10.702	ug/L	0.248	2	21	16744	0	KED
| Zn	66	40.646	ug/L	0.649	1	29	17599	1	KED
| Zn	67	38.468	ug/L	1.374	3	4	2856	2	KED
| As	75	11.351	ug/L	0.392	3	3	3108	2	KED
| Se-1	78	0.210	ug/L	0.065	30	11	17	12	KED
| Y	89		ug/L			752471	891348	4	Standard
| Kr	83		ug/L			79	133	5	Standard
[> In-1	115		ug/L			19356	20006	1	KED
| Cd	111	0.192	ug/L	0.038	19	1	57	18	KED
| Cd	114	0.172	ug/L	0.040	23	3	134	23	KED
[> In	115		ug/L			1103678	1197787	0	Standard
| Ag	107	0.110	ug/L	0.004	3	92	2272	3	Standard
| Ba	135	23.258	ug/L	0.441	1	10	123163	2	Standard
| Ba	137	23.136	ug/L	0.331	1	24	217060	1	Standard
[> Tb	159		ug/L			1402493	1544389	1	Standard
| Pb	208	20.329	ug/L	0.165	0	468	1027608	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0554-DUP1**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, September 21, 2018 14:52:47**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	28725	2	Standard
Cl	37		ug/L			5295021	21348426	4	Standard
[> Sc	45		ug/L			1418735	1667146	1	Standard
| Cr	52	11.782	ug/L	0.232	1	23249	373701	1	Standard
| Cr	53	20.675	ug/L	0.595	2	2296	75303	1	Standard
[> Ge-1	72		ug/L			66481	68993	2	KED
| Ni	60	16.959	ug/L	0.420	2	15	19270	3	KED
| Ni	62	17.091	ug/L	0.744	4	5	3089	2	KED
| Cu	63	12.033	ug/L	0.400	3	47	37321	2	KED
| Cu	65	12.018	ug/L	0.157	1	21	18679	2	KED
| Zn	66	61.560	ug/L	0.586	0	29	26458	1	KED
| Zn	67	58.798	ug/L	2.794	4	4	4333	3	KED
| As	75	14.059	ug/L	0.209	1	3	3823	0	KED
| Se-1	78	0.263	ug/L	0.136	51	11	19	20	KED
| Y	89		ug/L			752471	896964	1	Standard
| Kr	83		ug/L			79	111	2	Standard
[> In-1	115		ug/L			19356	20020	1	KED
| Cd	111	1.603	ug/L	0.070	4	1	474	4	KED
| Cd	114	1.695	ug/L	0.121	7	3	1287	6	KED
[> In	115		ug/L			1103678	1202746	1	Standard
| Ag	107	0.173	ug/L	0.005	3	92	3521	1	Standard
| Ba	135	23.554	ug/L	0.309	1	10	125230	1	Standard
| Ba	137	23.076	ug/L	0.429	1	24	217365	1	Standard
[> Tb	159		ug/L			1402493	1534885	1	Standard
| Pb	208	26.553	ug/L	1.111	4	468	1333493	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0287-01

Sample Dil Factor: 50

Comments:

Sample Date/Time: Friday, September 21, 2018 14:57:22

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	29121	0	Standard
Cl	37		ug/L			5295021	19866322	5	Standard
Sc	45		ug/L			1418735	1633199	0	Standard
Cr	52	11.593	ug/L	0.167	1	23249	360695	0	Standard
Cr	53	20.119	ug/L	0.173	0	2296	71878	1	Standard
Ge-1	72		ug/L			66481	70125	0	KED
Ni	60	15.129	ug/L	0.153	1	15	17473	0	KED
Ni	62	15.487	ug/L	0.337	2	5	2847	1	KED
Cu	63	13.094	ug/L	0.513	3	47	41286	4	KED
Cu	65	12.929	ug/L	0.294	2	21	20422	2	KED
Zn	66	72.166	ug/L	0.501	0	29	31524	0	KED
Zn	67	66.496	ug/L	3.062	4	4	4982	4	KED
As	75	13.846	ug/L	0.192	1	3	3827	0	KED
Se-1	78	0.205	ug/L	0.094	45	11	17	15	KED
Y	89		ug/L			752471	897921	2	Standard
Kr	83		ug/L			79	113	11	Standard
In-1	115		ug/L			19356	19792	1	KED
Cd	111	1.649	ug/L	0.126	7	1	482	6	KED
Cd	114	1.659	ug/L	0.068	4	3	1245	4	KED
In	115		ug/L			1103678	1187409	3	Standard
Ag	107	0.180	ug/L	0.002	1	92	3613	2	Standard
Ba	135	22.755	ug/L	1.281	5	10	119307	2	Standard
Ba	137	22.451	ug/L	1.391	6	24	208551	3	Standard
Tb	159		ug/L			1402493	1533848	0	Standard
Pb	208	34.373	ug/L	0.401	1	468	1725405	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0554-MS1**

Sample Dil Factor: **50**

ICP SPIKE

Comments:

TH 09-21-18

Sample Date/Time: **Friday, September 21, 2018 15:01:56**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	28213	4	Standard
Cl	37		ug/L			5295021	21243770	3	Standard
> Sc	45		ug/L			1418735	1653988	0	Standard
| Cr	52	32.569	ug/L	0.608	1	23249	977114	0	Standard
| Cr	53	40.185	ug/L	0.892	2	2296	142704	1	Standard
> Ge-1	72		ug/L			66481	70416	0	KED
| Ni	60	37.877	ug/L	0.217	0	15	43906	1	KED
| Ni	62	37.281	ug/L	0.833	2	5	6874	1	KED
| Cu	63	33.470	ug/L	1.062	3	47	105874	2	KED
| Cu	65	33.393	ug/L	0.706	2	21	52936	2	KED
| Zn	66	91.402	ug/L	1.724	1	29	40081	1	KED
| Zn	67	88.337	ug/L	3.841	4	4	6645	4	KED
| As	75	90.647	ug/L	1.468	1	3	25144	1	KED
| Se-1	78	80.367	ug/L	1.706	2	11	2462	1	KED
| Y	89		ug/L			752471	905049	0	Standard
| Kr	83		ug/L			79	119	6	Standard
> In-1	115		ug/L			19356	19829	1	KED
| Cd	111	22.759	ug/L	0.186	0	1	6657	1	KED
| Cd	114	22.834	ug/L	0.534	2	3	17122	1	KED
> In	115		ug/L			1103678	1203650	2	Standard
| Ag	107	20.861	ug/L	1.194	5	92	413572	3	Standard
| Ba	135	101.824	ug/L	2.767	2	10	541585	1	Standard
| Ba	137	101.673	ug/L	2.382	2	24	958172	0	Standard
> Tb	159		ug/L			1402493	1524109	2	Standard
| Pb	208	110.060	ug/L	4.352	3	468	5484805	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0554-BS1**

ICP SPIKE

Sample Dil Factor: **50**

TH 09-21-18

Comments:

Sample Date/Time: **Friday, September 21, 2018 15:06:31**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	27641	1	Standard
Cl	37		ug/L			5295021	24693904	5	Standard
[> Sc	45		ug/L			1418735	1629346	0	Standard
| Cr	52	20.224	ug/L	0.354	1	23249	607849	1	Standard
| Cr	53	34.085	ug/L	0.704	2	2296	119659	2	Standard
[> Ge-1	72		ug/L			66481	72015	1	KED
| Ni	60	20.569	ug/L	0.373	1	15	24392	2	KED
| Ni	62	20.536	ug/L	0.364	1	5	3874	0	KED
| Cu	63	20.383	ug/L	0.622	3	47	65944	1	KED
| Cu	65	20.630	ug/L	0.349	1	21	33449	2	KED
| Zn	66	21.359	ug/L	0.282	1	29	9605	3	KED
| Zn	67	26.152	ug/L	0.592	2	4	2015	2	KED
| As	75	77.077	ug/L	0.583	0	3	21864	1	KED
| Se-1	78	77.141	ug/L	0.186	0	11	2417	2	KED
| Y	89		ug/L			752471	794009	4	Standard
| Kr	83		ug/L			79	73	19	Standard
[> In-1	115		ug/L			19356	20190	1	KED
| Cd	111	20.120	ug/L	0.625	3	1	5991	2	KED
| Cd	114	20.613	ug/L	0.264	1	3	15741	1	KED
[> In	115		ug/L			1103678	1228359	0	Standard
| Ag	107	19.909	ug/L	0.457	2	92	403155	2	Standard
| Ba	135	78.706	ug/L	0.805	1	10	427372	0	Standard
| Ba	137	76.230	ug/L	1.210	1	24	733420	1	Standard
[> Tb	159		ug/L			1402493	1528762	2	Standard
| Pb	208	83.071	ug/L	2.323	2	468	4153528	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 15:12:10

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	24007	2	Standard
Cl	37		ug/L			5295021	5897074	2	Standard
[> Sc	45		ug/L			1418735	1496895	1	Standard
| Cr	52	50.606	ug/L	1.354	2	23249	1360429	1	Standard
| Cr	53	49.460	ug/L	1.553	3	2296	158388	2	Standard
[> Ge-1	72		ug/L			66481	62931	0	KED
| Ni	60	52.256	ug/L	0.239	0	15	54130	1	KED
| Ni	62	51.368	ug/L	1.467	2	5	8462	2	KED
| Cu	63	53.405	ug/L	0.095	0	47	150970	0	KED
| Cu	65	53.669	ug/L	1.654	3	21	76014	3	KED
| Zn	66	53.172	ug/L	1.023	1	29	20850	1	KED
| Zn	67	50.764	ug/L	0.397	0	4	3415	0	KED
| As	75	51.053	ug/L	0.401	0	3	12658	1	KED
| Se-1	78	50.819	ug/L	1.136	2	11	1395	2	KED
Y	89		ug/L			752471	783352	3	Standard
Kr	83		ug/L			79	103	19	Standard
[> In-1	115		ug/L			19356	18526	1	KED
| Cd	111	50.060	ug/L	0.715	1	1	13677	0	KED
| Cd	114	50.004	ug/L	0.971	1	3	35029	0	KED
[> In	115		ug/L			1103678	1108149	1	Standard
| Ag	107	53.349	ug/L	1.076	2	92	974341	2	Standard
| Ba	135	51.392	ug/L	0.562	1	10	251729	0	Standard
| Ba	137	49.908	ug/L	0.096	0	24	433162	1	Standard
[> Tb	159		ug/L			1402493	1414834	2	Standard
| Pb	208	53.879	ug/L	1.238	2	468	2493600	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 15:19:30

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	22954	2	Standard
Cl	37		ug/L			5295021	5684353	1	Standard
[> Sc	45		ug/L			1418735	1525074	2	Standard
| Cr	52	-0.051	ug/L	0.052	101	23249	23586	3	Standard
| Cr	53	-0.213	ug/L	0.027	12	2296	1782	2	Standard
[> Ge-1	72		ug/L			66481	64514	2	KED
| Ni	60	0.001	ug/L	0.008	1325	15	15	48	KED
| Ni	62	0.001	ug/L	0.022	2338	5	5	66	KED
| Cu	63	-0.001	ug/L	0.000	27	47	42	2	KED
| Cu	65	0.000	ug/L	0.003	732	21	21	22	KED
| Zn	66	0.178	ug/L	0.013	7	29	100	5	KED
| Zn	67	0.083	ug/L	0.082	98	4	10	57	KED
| As	75	0.038	ug/L	0.003	8	3	13	6	KED
| Se-1	78	-0.023	ug/L	0.037	161	11	10	11	KED
Y	89		ug/L			752471	766814	3	Standard
Kr	83		ug/L			79	76	21	Standard
[> In-1	115		ug/L			19356	18648	2	KED
| Cd	111	0.005	ug/L	0.005	108	1	2	57	KED
| Cd	114	0.000	ug/L	0.005	3241	3	3	91	KED
[> In	115		ug/L			1103678	1130497	1	Standard
| Ag	107	0.001	ug/L	0.002	179	92	111	27	Standard
| Ba	135	0.002	ug/L	0.002	101	10	21	48	Standard
| Ba	137	0.002	ug/L	0.000	2	24	44	2	Standard
[> Tb	159		ug/L			1402493	1421311	1	Standard
| Pb	208	0.002	ug/L	0.000	9	468	579	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810287-07**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, September 21, 2018 15:24:05**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	28507	1	Standard
Cl	37		ug/L			5295021	20014922	1	Standard
[> Sc	45		ug/L			1418735	1616286	1	Standard
| Cr	52	11.642	ug/L	0.652	5	23249	358270	4	Standard
| Cr	53	20.696	ug/L	0.673	3	2296	73074	1	Standard
[> Ge-1	72		ug/L			66481	67827	2	KED
| Ni	60	15.101	ug/L	1.031	6	15	16856	4	KED
| Ni	62	15.903	ug/L	0.747	4	5	2826	2	KED
| Cu	63	9.310	ug/L	0.226	2	47	28412	4	KED
| Cu	65	9.437	ug/L	0.285	3	21	14424	3	KED
| Zn	66	37.026	ug/L	0.755	2	29	15654	0	KED
| Zn	67	34.646	ug/L	1.000	2	4	2512	0	KED
| As	75	12.480	ug/L	0.086	0	3	3338	2	KED
| Se-1	78	0.318	ug/L	0.106	33	11	20	13	KED
| Y	89		ug/L			752471	887697	5	Standard
| Kr	83		ug/L			79	95	9	Standard
[> In-1	115		ug/L			19356	19111	2	KED
| Cd	111	0.222	ug/L	0.014	6	1	63	3	KED
| Cd	114	0.237	ug/L	0.019	8	3	174	6	KED
[> In	115		ug/L			1103678	1196817	3	Standard
| Ag	107	0.106	ug/L	0.001	0	92	2190	4	Standard
| Ba	135	21.075	ug/L	0.415	1	10	111463	1	Standard
| Ba	137	20.698	ug/L	0.381	1	24	193961	1	Standard
[> Tb	159		ug/L			1402493	1514963	1	Standard
| Pb	208	18.893	ug/L	0.871	4	468	936510	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810287-08**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, September 21, 2018 15:28:40**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	27445	6	Standard
Cl	37		ug/L			5295021	22218209	3	Standard
[> Sc	45		ug/L			1418735	1667264	4	Standard
| Cr	52	13.025	ug/L	0.430	3	23249	410054	2	Standard
| Cr	53	22.312	ug/L	1.423	6	2296	80949	2	Standard
[> Ge-1	72		ug/L			66481	69289	0	KED
| Ni	60	15.700	ug/L	0.269	1	15	17915	0	KED
| Ni	62	15.140	ug/L	0.073	0	5	2750	1	KED
| Cu	63	10.359	ug/L	0.075	0	47	32281	0	KED
| Cu	65	10.147	ug/L	0.070	0	21	15843	1	KED
| Zn	66	67.651	ug/L	0.873	1	29	29203	2	KED
| Zn	67	64.055	ug/L	1.007	1	4	4743	1	KED
| As	75	7.597	ug/L	0.079	1	3	2077	1	KED
| Se-1	78	0.349	ug/L	0.004	1	11	22	1	KED
| Y	89		ug/L			752471	896957	3	Standard
| Kr	83		ug/L			79	101	7	Standard
[> In-1	115		ug/L			19356	19421	1	KED
| Cd	111	0.151	ug/L	0.018	12	1	44	9	KED
| Cd	114	0.126	ug/L	0.005	4	3	96	5	KED
[> In	115		ug/L			1103678	1165758	1	Standard
| Ag	107	0.103	ug/L	0.005	4	92	2073	3	Standard
| Ba	135	23.887	ug/L	0.524	2	10	123080	0	Standard
| Ba	137	22.935	ug/L	0.485	2	24	209382	0	Standard
[> Tb	159		ug/L			1402493	1483748	0	Standard
| Pb	208	39.426	ug/L	1.497	3	468	1914332	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810287-09**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, September 21, 2018 15:33:15**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	26128	3	Standard
Cl	37		ug/L			5295021	20856656	4	Standard
[> Sc	45		ug/L			1418735	1664746	2	Standard
| Cr	52	14.470	ug/L	0.328	2	23249	451955	0	Standard
| Cr	53	23.452	ug/L	0.417	1	2296	84935	2	Standard
[> Ge-1	72		ug/L			66481	69988	0	KED
| Ni	60	14.801	ug/L	0.488	3	15	17059	2	KED
| Ni	62	14.585	ug/L	0.212	1	5	2676	0	KED
| Cu	63	15.947	ug/L	0.302	1	47	50164	1	KED
| Cu	65	16.134	ug/L	0.379	2	21	25427	1	KED
| Zn	66	142.800	ug/L	2.762	1	29	62219	1	KED
| Zn	67	132.117	ug/L	1.764	1	4	9876	0	KED
| As	75	12.083	ug/L	0.066	0	3	3334	1	KED
| Se-1	78	0.238	ug/L	0.042	17	11	18	5	KED
| Y	89		ug/L			752471	890884	1	Standard
| Kr	83		ug/L			79	133	8	Standard
[> In-1	115		ug/L			19356	19869	2	KED
| Cd	111	0.201	ug/L	0.019	9	1	60	10	KED
| Cd	114	0.176	ug/L	0.007	4	3	135	5	KED
[> In	115		ug/L			1103678	1188160	5	Standard
| Ag	107	0.242	ug/L	0.020	8	92	4830	2	Standard
| Ba	135	25.897	ug/L	2.106	8	10	135636	3	Standard
| Ba	137	24.544	ug/L	1.715	6	24	227844	1	Standard
[> Tb	159		ug/L			1402493	1504058	4	Standard
| Pb	208	175.005	ug/L	4.087	2	468	8606729	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810287-10**

Sample Dil Factor: **50**

Comments:

Sample Date/Time: **Friday, September 21, 2018 15:37:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	27822	3	Standard
Cl	37		ug/L			5295021	20983681	2	Standard
[> Sc	45		ug/L			1418735	1603909	0	Standard
| Cr	52	12.046	ug/L	0.317	2	23249	367109	3	Standard
| Cr	53	22.351	ug/L	0.109	0	2296	78129	0	Standard
[> Ge-1	72		ug/L			66481	69700	0	KED
| Ni	60	15.137	ug/L	0.438	2	15	17375	2	KED
| Ni	62	14.945	ug/L	0.277	1	5	2731	0	KED
| Cu	63	8.938	ug/L	0.199	2	47	28021	1	KED
| Cu	65	9.008	ug/L	0.249	2	21	14148	2	KED
| Zn	66	34.250	ug/L	0.690	2	29	14887	2	KED
| Zn	67	33.125	ug/L	2.007	6	4	2468	5	KED
| As	75	9.410	ug/L	0.221	2	3	2586	1	KED
| Se-1	78	0.218	ug/L	0.058	26	11	18	10	KED
| Y	89		ug/L			752471	909917	6	Standard
| Kr	83		ug/L			79	116	23	Standard
[> In-1	115		ug/L			19356	19412	1	KED
| Cd	111	0.188	ug/L	0.023	12	1	55	13	KED
| Cd	114	0.150	ug/L	0.010	6	3	113	5	KED
[> In	115		ug/L			1103678	1195673	3	Standard
| Ag	107	0.092	ug/L	0.011	12	92	1906	7	Standard
| Ba	135	20.293	ug/L	0.921	4	10	107149	1	Standard
| Ba	137	20.547	ug/L	0.803	3	24	192254	1	Standard
[> Tb	159		ug/L			1402493	1480525	2	Standard
| Pb	208	17.455	ug/L	0.701	4	468	845450	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0152-02

Sample Dil Factor: 20

DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 15:42:24

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	29667	0	Standard
Cl	37		ug/L			5295021	6363360	4	Standard
[> Sc	45		ug/L			1418735	1448599	0	Standard
| Cr	52	1.426	ug/L	0.040	2	23249	60184	2	Standard
| Cr	53	1.871	ug/L	0.086	4	2296	8055	3	Standard
[> Ge-1	72		ug/L			66481	62606	2	KED
| Ni	60	0.094	ug/L	0.008	8	15	111	5	KED
| Ni	62	0.084	ug/L	0.043	51	5	19	34	KED
| Cu	63	0.161	ug/L	0.008	5	47	496	2	KED
| Cu	65	0.159	ug/L	0.009	5	21	243	4	KED
| Zn	66	1.032	ug/L	0.149	14	29	430	14	KED
| Zn	67	0.877	ug/L	0.119	13	4	62	13	KED
| As	75	0.201	ug/L	0.022	10	3	53	10	KED
| Se-1	78	0.065	ug/L	0.043	66	11	12	9	KED
Y	89		ug/L			752471	759148	2	Standard
Kr	83		ug/L			79	80	3	Standard
[> In-1	115		ug/L			19356	17886	2	KED
| Cd	111	0.006	ug/L	0.007	112	1	2	66	KED
| Cd	114	0.002	ug/L	0.007	434	3	4	109	KED
[> In	115		ug/L			1103678	1112174	1	Standard
| Ag	107	0.008	ug/L	0.001	9	92	239	3	Standard
| Ba	135	0.673	ug/L	0.020	2	10	3318	2	Standard
| Ba	137	0.680	ug/L	0.011	1	24	5945	0	Standard
[> Tb	159		ug/L			1402493	1413944	0	Standard
| Pb	208	0.049	ug/L	0.002	3	468	2743	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0285-38 DEL

Sample Dil Factor: 20

Comments:

Sample Date/Time: Friday, September 21, 2018 15:46:59

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	23649	3	Standard
Cl	37		ug/L			5295021	5432391	4	Standard
[> Sc	45		ug/L			1418735	1489562	2	Standard
| Cr	52	0.001	ug/L	0.036	6483	23249	24410	2	Standard
| Cr	53	-0.165	ug/L	0.020	12	2296	1890	0	Standard
[> Ge-1	72		ug/L			66481	64417	2	KED
| Ni	60	0.008	ug/L	0.007	90	15	23	32	KED
| Ni	62	0.009	ug/L	0.006	74	5	6	15	KED
| Cu	63	0.021	ug/L	0.010	48	47	106	27	KED
| Cu	65	0.023	ug/L	0.007	30	21	54	20	KED
| Zn	66	1.234	ug/L	0.186	15	29	524	16	KED
| Zn	67	1.090	ug/L	0.301	27	4	79	26	KED
| As	75	0.011	ug/L	0.001	7	3	6	4	KED
| Se-1	78	-0.010	ug/L	0.059	610	11	10	13	KED
Y	89		ug/L			752471	761500	3	Standard
Kr	83		ug/L			79	69	18	Standard
[> In-1	115		ug/L			19356	18638	0	KED
| Cd	111	-0.001	ug/L	0.003	345	1	0	100	KED
| Cd	114	-0.002	ug/L	0.004	217	3	2	132	KED
[> In	115		ug/L			1103678	1141036	4	Standard
| Ag	107	-0.001	ug/L	0.000	15	92	84	4	Standard
| Ba	135	0.019	ug/L	0.002	12	10	107	12	Standard
| Ba	137	0.018	ug/L	0.002	10	24	181	5	Standard
[> Tb	159		ug/L			1402493	1400723	2	Standard
| Pb	208	0.008	ug/L	0.001	9	468	824	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 15:52:20

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	23257	4	Standard
Cl	37		ug/L			5295021	5763114	0	Standard
[> Sc	45		ug/L			1418735	1490874	0	Standard
| Cr	52	49.303	ug/L	0.666	1	23249	1320879	1	Standard
| Cr	53	49.043	ug/L	2.025	4	2296	156457	3	Standard
[> Ge-1	72		ug/L			66481	64410	2	KED
| Ni	60	50.754	ug/L	2.232	4	15	53772	2	KED
| Ni	62	51.041	ug/L	1.697	3	5	8602	1	KED
| Cu	63	51.798	ug/L	1.453	2	47	149801	0	KED
| Cu	65	50.799	ug/L	1.367	2	21	73611	0	KED
| Zn	66	50.902	ug/L	2.103	4	29	20419	1	KED
| Zn	67	50.861	ug/L	2.352	4	4	3499	2	KED
| As	75	49.898	ug/L	1.811	3	3	12655	1	KED
| Se-1	78	49.220	ug/L	2.912	5	11	1382	3	KED
Y	89		ug/L			752471	780546	3	Standard
Kr	83		ug/L			79	91	14	Standard
[> In-1	115		ug/L			19356	18509	1	KED
| Cd	111	50.276	ug/L	0.139	0	1	13726	0	KED
| Cd	114	50.326	ug/L	0.658	1	3	35226	0	KED
[> In	115		ug/L			1103678	1117135	2	Standard
| Ag	107	52.275	ug/L	0.316	0	92	962470	1	Standard
| Ba	135	49.999	ug/L	1.467	2	10	246826	1	Standard
| Ba	137	50.081	ug/L	0.712	1	24	438114	0	Standard
[> Tb	159		ug/L			1402493	1418150	2	Standard
| Pb	208	54.037	ug/L	1.231	2	468	2506949	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 15:59:39

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	22398	1	Standard
Cl	37		ug/L			5295021	5467708	1	Standard
[> Sc	45		ug/L			1418735	1458232	2	Standard
| Cr	52	-0.006	ug/L	0.033	536	23249	23727	1	Standard
| Cr	53	-0.318	ug/L	0.011	3	2296	1383	1	Standard
[> Ge-1	72		ug/L			66481	63952	1	KED
| Ni	60	0.008	ug/L	0.014	182	15	23	62	KED
| Ni	62	0.017	ug/L	0.035	211	5	8	70	KED
| Cu	63	0.005	ug/L	0.011	208	47	60	51	KED
| Cu	65	0.007	ug/L	0.011	163	21	30	51	KED
| Zn	66	0.145	ug/L	0.032	21	29	86	15	KED
| Zn	67	0.151	ug/L	0.040	26	4	14	19	KED
| As	75	0.036	ug/L	0.002	6	3	12	5	KED
| Se-1	78	-0.002	ug/L	0.098	4502	11	10	26	KED
Y	89		ug/L			752471	768366	2	Standard
Kr	83		ug/L			79	70	9	Standard
[> In-1	115		ug/L			19356	18482	1	KED
| Cd	111	0.004	ug/L	0.002	58	1	2	24	KED
| Cd	114	-0.003	ug/L	0.003	104	3	1	101	KED
[> In	115		ug/L			1103678	1124338	2	Standard
| Ag	107	0.002	ug/L	0.001	38	92	132	10	Standard
| Ba	135	0.001	ug/L	0.001	157	10	15	43	Standard
| Ba	137	0.001	ug/L	0.002	160	24	36	53	Standard
[> Tb	159		ug/L			1402493	1407591	0	Standard
| Pb	208	0.003	ug/L	0.001	31	468	596	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0588-BLK1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 16:04:13**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			22497	30981	0	Standard
Cl	37	ug/L			5295021	5490142	1	Standard
> Sc	45	ug/L			1418735	1481250	2	Standard
| Cr	52	0.063	0.046	73	23249	25903	2	Standard
| Cr	53	-0.298	0.012	3	2296	1467	3	Standard
> Ge-1	72	ug/L			66481	63623	0	KED
| Ni	60	0.011	0.002	16	15	26	7	KED
| Ni	62	-0.018	0.007	38	5	2	43	KED
| Cu	63	0.006	0.004	65	47	63	17	KED
| Cu	65	0.016	0.004	27	21	43	13	KED
| Zn	66	2.060	0.102	4	29	844	5	KED
| Zn	67	1.584	0.176	11	4	111	9	KED
| As	75	0.051	0.007	13	3	16	10	KED
| Se-1	78	-0.069	0.070	101	11	8	22	KED
Y	89	ug/L			752471	785218	1	Standard
Kr	83	ug/L			79	70	23	Standard
> In-1	115	ug/L			19356	18555	1	KED
| Cd	111	0.005	0.002	43	1	2	21	KED
| Cd	114	0.001	0.002	137	3	4	29	KED
> In	115	ug/L			1103678	1134620	1	Standard
| Ag	107	0.001	0.000	25	92	112	5	Standard
| Ba	135	0.007	0.001	7	10	45	4	Standard
| Ba	137	0.003	0.002	52	24	51	25	Standard
> Tb	159	ug/L			1402493	1421068	0	Standard
| Pb	208	-0.002	0.001	56	468	367	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0286-26

Sample Dil Factor: 10

DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 16:08:48

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	23484	3	Standard
Cl	37		ug/L			5295021	5451889	0	Standard
[> Sc	45		ug/L			1418735	1470260	1	Standard
| Cr	52	-0.011	ug/L	0.039	344	23249	23797	3	Standard
| Cr	53	-0.334	ug/L	0.008	2	2296	1345	1	Standard
[> Ge-1	72		ug/L			66481	63079	1	KED
| Ni	60	0.012	ug/L	0.008	61	15	27	27	KED
| Ni	62	0.005	ug/L	0.029	528	5	6	75	KED
| Cu	63	0.067	ug/L	0.006	8	47	233	5	KED
| Cu	65	0.057	ug/L	0.003	4	21	100	3	KED
| Zn	66	0.503	ug/L	0.045	8	29	226	9	KED
| Zn	67	0.483	ug/L	0.137	28	4	36	26	KED
| As	75	0.010	ug/L	0.006	66	3	6	27	KED
| Se-1	78	-0.003	ug/L	0.042	1581	11	10	12	KED
Y	89		ug/L			752471	749008	1	Standard
Kr	83		ug/L			79	63	19	Standard
[> In-1	115		ug/L			19356	18693	1	KED
| Cd	111	0.007	ug/L	0.005	76	1	3	45	KED
| Cd	114	-0.001	ug/L	0.001	179	3	3	35	KED
[> In	115		ug/L			1103678	1140096	1	Standard
| Ag	107	-0.000	ug/L	0.001	1394	92	93	13	Standard
| Ba	135	0.014	ug/L	0.003	24	10	82	19	Standard
| Ba	137	0.011	ug/L	0.001	13	24	125	9	Standard
[> Tb	159		ug/L			1402493	1404058	1	Standard
| Pb	208	0.002	ug/L	0.001	32	468	574	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0588-DUP1**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Friday, September 21, 2018 16:13:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	29509	5	Standard
Cl	37		ug/L			5295021	68677010	3	Standard
[> Sc	45		ug/L			1418735	1245722	0	Standard
| Cr	52	0.729	ug/L	0.039	5	23249	36422	1	Standard
| Cr	53	37.002	ug/L	0.514	1	2296	99134	1	Standard
[> Ge-1	72		ug/L			66481	46681	1	KED
| Ni	60	0.061	ug/L	0.016	25	15	58	21	KED
| Ni	62	1.251	ug/L	0.062	4	5	156	5	KED
| Cu	63	0.270	ug/L	0.018	6	47	600	6	KED
| Cu	65	0.134	ug/L	0.015	11	21	156	9	KED
| Zn	66	0.823	ug/L	0.116	14	29	259	11	KED
| Zn	67	0.856	ug/L	0.248	28	4	45	26	KED
| As	75	0.217	ug/L	0.039	17	3	42	16	KED
| Se-1	78	0.745	ug/L	0.116	15	11	22	9	KED
Y	89		ug/L			752471	634050	3	Standard
Kr	83		ug/L			79	8997	4	Standard
[> In-1	115		ug/L			19356	13760	0	KED
| Cd	111	0.007	ug/L	0.010	150	1	2	89	KED
| Cd	114	0.011	ug/L	0.006	52	3	8	35	KED
[> In	115		ug/L			1103678	915957	0	Standard
| Ag	107	0.002	ug/L	0.001	81	92	104	22	Standard
| Ba	135	0.888	ug/L	0.013	1	10	3603	2	Standard
| Ba	137	0.887	ug/L	0.009	1	24	6379	0	Standard
[> Tb	159		ug/L			1402493	1211534	1	Standard
| Pb	208	0.016	ug/L	0.001	5	468	1027	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810286-02**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Friday, September 21, 2018 16:17:57**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	30589	4	Standard
Cl	37		ug/L			5295021	72914767	5	Standard
[> Sc	45		ug/L			1418735	1268961	2	Standard
| Cr	52	0.701	ug/L	0.023	3	23249	36481	2	Standard
| Cr	53	38.833	ug/L	1.602	4	2296	105808	1	Standard
[> Ge-1	72		ug/L			66481	50216	0	KED
| Ni	60	0.066	ug/L	0.002	3	15	66	2	KED
| Ni	62	1.495	ug/L	0.091	6	5	200	5	KED
| Cu	63	0.347	ug/L	0.012	3	47	819	3	KED
| Cu	65	0.183	ug/L	0.022	11	21	223	11	KED
| Zn	66	1.001	ug/L	0.229	22	29	335	20	KED
| Zn	67	0.921	ug/L	0.165	17	4	52	16	KED
| As	75	0.208	ug/L	0.014	6	3	43	7	KED
| Se-1	78	0.717	ug/L	0.231	32	11	23	20	KED
Y	89		ug/L			752471	644359	2	Standard
Kr	83		ug/L			79	10307	3	Standard
[> In-1	115		ug/L			19356	14540	1	KED
| Cd	111	0.012	ug/L	0.016	132	1	3	95	KED
| Cd	114	0.006	ug/L	0.009	144	3	6	79	KED
[> In	115		ug/L			1103678	933470	1	Standard
| Ag	107	-0.000	ug/L	0.001	489	92	76	9	Standard
| Ba	135	0.892	ug/L	0.026	2	10	3687	1	Standard
| Ba	137	0.877	ug/L	0.031	3	24	6426	2	Standard
[> Tb	159		ug/L			1402493	1245072	1	Standard
| Pb	208	0.012	ug/L	0.001	10	468	921	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0588-MS1**

Sample Dil Factor: **10**

Comments:

Sample Date/Time: **Friday, September 21, 2018 16:22:31**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	29971	2	Standard
Cl	37		ug/L			5295021	73477248	5	Standard
[> Sc	45		ug/L			1418735	1313058	1	Standard
| Cr	52	3.166	ug/L	0.062	1	23249	94858	2	Standard
| Cr	53	41.494	ug/L	1.387	3	2296	116909	2	Standard
[> Ge-1	72		ug/L			66481	50942	0	KED
| Ni	60	2.784	ug/L	0.064	2	15	2346	2	KED
| Ni	62	4.026	ug/L	0.023	0	5	540	1	KED
| Cu	63	2.835	ug/L	0.067	2	47	6522	2	KED
| Cu	65	2.622	ug/L	0.058	2	21	3021	1	KED
| Zn	66	8.146	ug/L	0.055	0	29	2605	0	KED
| Zn	67	7.831	ug/L	0.418	5	4	429	4	KED
| As	75	2.774	ug/L	0.050	1	3	559	1	KED
| Se-1	78	8.472	ug/L	0.205	2	11	195	2	KED
| Y	89		ug/L			752471	665180	1	Standard
| Kr	83		ug/L			79	10962	1	Standard
[> In-1	115		ug/L			19356	15281	4	KED
| Cd	111	2.111	ug/L	0.110	5	1	476	3	KED
| Cd	114	2.180	ug/L	0.037	1	3	1262	5	KED
[> In	115		ug/L			1103678	933044	2	Standard
| Ag	107	2.110	ug/L	0.024	1	92	32523	1	Standard
| Ba	135	3.789	ug/L	0.095	2	10	15634	1	Standard
| Ba	137	3.727	ug/L	0.043	1	24	27250	1	Standard
[> Tb	159		ug/L			1402493	1240868	1	Standard
| Pb	208	2.230	ug/L	0.037	1	468	90958	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 1810286-26

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 16:27:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	32942	1	Standard
Cl	37		ug/L			5295021	5938121	1	Standard
[> Sc	45		ug/L			1418735	1446099	1	Standard
| Cr	52	0.266	ug/L	0.044	16	23249	30481	2	Standard
| Cr	53	0.768	ug/L	0.050	6	2296	4680	2	Standard
[> Ge-1	72		ug/L			66481	70064	1	KED
| Ni	60	0.075	ug/L	0.005	6	15	102	6	KED
| Ni	62	0.234	ug/L	0.025	10	5	48	9	KED
| Cu	63	0.576	ug/L	0.038	6	47	1861	6	KED
| Cu	65	0.591	ug/L	0.035	5	21	954	6	KED
| Zn	66	2.895	ug/L	0.114	3	29	1294	5	KED
| Zn	67	2.809	ug/L	0.303	10	4	214	9	KED
| As	75	0.023	ug/L	0.010	45	3	10	28	KED
| Se-1	78	0.007	ug/L	0.066	964	11	11	16	KED
Y	89		ug/L			752471	768785	3	Standard
Kr	83		ug/L			79	122	6	Standard
[> In-1	115		ug/L			19356	20351	2	KED
| Cd	111	0.004	ug/L	0.009	228	1	2	108	KED
| Cd	114	-0.001	ug/L	0.006	535	3	3	160	KED
[> In	115		ug/L			1103678	1149987	1	Standard
| Ag	107	-0.000	ug/L	0.001	209	92	88	20	Standard
| Ba	135	0.118	ug/L	0.002	2	10	613	3	Standard
| Ba	137	0.113	ug/L	0.003	2	24	1040	3	Standard
[> Tb	159		ug/L			1402493	1439826	2	Standard
| Pb	208	0.025	ug/L	0.001	4	468	1673	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0588-DUP4** **DUP2**

Sample Dil Factor: **5** TH 09-21-18

Comments:

Sample Date/Time: Friday, September 21, 2018 16:31:41

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	31654	1	Standard
Cl	37		ug/L			5295021	123877081	1	Standard
[> Sc	45		ug/L			1418735	1185124	0	Standard
| Cr	52	0.882	ug/L	0.032	3	23249	37858	1	Standard
| Cr	53	52.118	ug/L	0.935	1	2296	132052	1	Standard
[> Ge-1	72		ug/L			66481	39197	0	KED
| Ni	60	0.139	ug/L	0.021	15	15	99	13	KED
| Ni	62	2.457	ug/L	0.150	6	5	255	5	KED
| Cu	63	0.663	ug/L	0.026	3	47	1195	2	KED
| Cu	65	0.287	ug/L	0.031	10	21	266	9	KED
| Zn	66	1.342	ug/L	0.112	8	29	344	7	KED
| Zn	67	1.407	ug/L	0.319	22	4	61	22	KED
| As	75	0.448	ug/L	0.035	7	3	71	7	KED
| Se-1	78	1.830	ug/L	0.277	15	11	37	12	KED
Y	89		ug/L			752471	635858	0	Standard
Kr	83		ug/L			79	55222	2	Standard
[> In-1	115		ug/L			19356	12149	1	KED
| Cd	111	0.024	ug/L	0.012	51	1	5	43	KED
| Cd	114	0.007	ug/L	0.011	159	3	5	92	KED
[> In	115		ug/L			1103678	801879	0	Standard
| Ag	107	0.001	ug/L	0.001	88	92	76	11	Standard
| Ba	135	1.731	ug/L	0.018	1	10	6144	1	Standard
| Ba	137	1.727	ug/L	0.026	1	24	10863	1	Standard
[> Tb	159		ug/L			1402493	1070876	0	Standard
| Pb	208	0.009	ug/L	0.002	26	468	681	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810286-02**RE1

TH 09-21-18

Sample Dil Factor: **5**

Comments:

Sample Date/Time: Friday, September 21, 2018 16:36:30

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	31014	1	Standard
Cl	37		ug/L			5295021	121678460	2	Standard
> Sc	45		ug/L			1418735	1153768	1	Standard
| Cr	52	1.072	ug/L	0.027	2	23249	40734	2	Standard
| Cr	53	60.342	ug/L	1.240	2	2296	148543	1	Standard
> Ge-1	72		ug/L			66481	39646	1	KED
| Ni	60	0.133	ug/L	0.027	20	15	95	17	KED
| Ni	62	3.261	ug/L	0.099	3	5	341	2	KED
| Cu	63	0.767	ug/L	0.024	3	47	1393	2	KED
| Cu	65	0.261	ug/L	0.017	6	21	245	7	KED
| Zn	66	1.676	ug/L	0.126	7	29	431	6	KED
| Zn	67	1.603	ug/L	0.055	3	4	70	2	KED
| As	75	0.450	ug/L	0.040	8	3	72	7	KED
| Se-1	78	1.480	ug/L	0.169	11	11	32	10	KED
Y	89		ug/L			752471	610286	2	Standard
Kr	83		ug/L			79	55143	4	Standard
> In-1	115		ug/L			19356	12459	1	KED
| Cd	111	0.023	ug/L	0.019	79	1	5	65	KED
| Cd	114	0.018	ug/L	0.016	87	3	11	69	KED
> In	115		ug/L			1103678	793476	0	Standard
| Ag	107	0.000	ug/L	0.000	239	92	68	8	Standard
| Ba	135	1.800	ug/L	0.064	3	10	6322	3	Standard
| Ba	137	1.781	ug/L	0.045	2	24	11083	2	Standard
> Tb	159		ug/L			1402493	1037351	0	Standard
| Pb	208	0.010	ug/L	0.001	9	468	681	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0588-MS1** MS2 TH 09-21-18

Sample Dil Factor: **5**

Comments:

Sample Date/Time: Friday, September 21, 2018 16:41:05

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	31662	1	Standard
Cl	37		ug/L			5295021	129938434	1	Standard
> Sc	45		ug/L			1418735	1178647	0	Standard
| Cr	52	5.783	ug/L	0.158	2	23249	139512	1	Standard
| Cr	53	64.402	ug/L	0.566	0	2296	161846	1	Standard
> Ge-1	72		ug/L			66481	39442	1	KED
| Ni	60	5.587	ug/L	0.049	0	15	3635	1	KED
| Ni	62	8.976	ug/L	0.659	7	5	928	5	KED
| Cu	63	5.824	ug/L	0.208	3	47	10342	3	KED
| Cu	65	5.213	ug/L	0.126	2	21	4638	2	KED
| Zn	66	15.996	ug/L	0.245	1	29	3943	0	KED
| Zn	67	14.314	ug/L	0.850	5	4	605	4	KED
| As	75	5.188	ug/L	0.145	2	3	807	1	KED
| Se-1	78	15.423	ug/L	0.724	4	11	270	4	KED
Y	89		ug/L			752471	628901	0	Standard
Kr	83		ug/L			79	74434	0	Standard
> In-1	115		ug/L			19356	12272	0	KED
| Cd	111	4.035	ug/L	0.073	1	1	731	2	KED
| Cd	114	4.101	ug/L	0.126	3	3	1905	2	KED
> In	115		ug/L			1103678	778823	0	Standard
| Ag	107	3.945	ug/L	0.054	1	92	50700	1	Standard
| Ba	135	7.526	ug/L	0.063	0	10	25918	0	Standard
| Ba	137	7.354	ug/L	0.121	1	24	44878	1	Standard
> Tb	159		ug/L			1402493	1045544	1	Standard
| Pb	208	4.015	ug/L	0.046	1	468	137703	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0588-BS1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 16:46:44**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	30923	1	Standard
Cl	37		ug/L			5295021	5663329	1	Standard
[> Sc	45		ug/L			1418735	1335975	5	Standard
| Cr	52	26.955	ug/L	0.909	3	23249	656230	2	Standard
| Cr	53	27.164	ug/L	1.203	4	2296	78511	2	Standard
[> Ge-1	72		ug/L			66481	67189	0	KED
| Ni	60	26.962	ug/L	0.087	0	15	29826	1	KED
| Ni	62	26.336	ug/L	0.318	1	5	4635	0	KED
| Cu	63	27.506	ug/L	0.413	1	47	83037	1	KED
| Cu	65	27.114	ug/L	0.291	1	21	41010	1	KED
| Zn	66	86.127	ug/L	1.366	1	29	36039	1	KED
| Zn	67	80.024	ug/L	4.005	5	4	5743	4	KED
| As	75	25.376	ug/L	0.019	0	3	6719	1	KED
| Se-1	78	84.360	ug/L	1.049	1	11	2465	0	KED
Y	89		ug/L			752471	721436	3	Standard
Kr	83		ug/L			79	250	8	Standard
[> In-1	115		ug/L			19356	19940	1	KED
| Cd	111	25.944	ug/L	0.562	2	1	7629	0	KED
| Cd	114	25.500	ug/L	0.948	3	3	19224	2	KED
[> In	115		ug/L			1103678	1094486	1	Standard
| Ag	107	26.997	ug/L	0.530	1	92	486964	0	Standard
| Ba	135	26.867	ug/L	0.448	1	10	129975	0	Standard
| Ba	137	26.713	ug/L	0.480	1	24	229010	2	Standard
[> Tb	159		ug/L			1402493	1426374	1	Standard
| Pb	208	24.826	ug/L	0.316	1	468	1158924	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 16:52:23

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	19735	4	Standard
Cl	37		ug/L			5295021	5081491	0	Standard
[> Sc	45		ug/L			1418735	1270781	2	Standard
| Cr	52	51.437	ug/L	1.529	2	23249	1173457	3	Standard
| Cr	53	52.137	ug/L	1.125	2	2296	141603	0	Standard
[> Ge-1	72		ug/L			66481	61238	0	KED
| Ni	60	53.354	ug/L	0.857	1	15	53776	1	KED
| Ni	62	53.068	ug/L	1.809	3	5	8508	3	KED
| Cu	63	52.848	ug/L	1.167	2	47	145363	1	KED
| Cu	65	51.727	ug/L	1.624	3	21	71289	2	KED
| Zn	66	53.806	ug/L	0.678	1	29	20532	1	KED
| Zn	67	51.811	ug/L	1.416	2	4	3391	2	KED
| As	75	51.744	ug/L	0.678	1	3	12483	0	KED
| Se-1	78	53.141	ug/L	0.632	1	11	1419	0	KED
Y	89		ug/L			752471	683406	1	Standard
Kr	83		ug/L			79	120	10	Standard
[> In-1	115		ug/L			19356	18863	0	KED
| Cd	111	50.598	ug/L	0.693	1	1	14077	0	KED
| Cd	114	50.469	ug/L	0.691	1	3	36004	1	KED
[> In	115		ug/L			1103678	1072767	1	Standard
| Ag	107	51.486	ug/L	1.344	2	92	910096	1	Standard
| Ba	135	50.057	ug/L	1.012	2	10	237371	2	Standard
| Ba	137	51.384	ug/L	0.736	1	24	431693	1	Standard
[> Tb	159		ug/L			1402493	1350282	2	Standard
| Pb	208	48.808	ug/L	0.741	1	468	2156243	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 16:59:42

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	20076	2	Standard
Cl	37		ug/L			5295021	5027381	2	Standard
[> Sc	45		ug/L			1418735	1213991	2	Standard
| Cr	52	0.039	ug/L	0.028	71	23249	20715	1	Standard
| Cr	53	0.153	ug/L	0.021	13	2296	2355	0	Standard
[> Ge-1	72		ug/L			66481	61586	1	KED
| Ni	60	-0.006	ug/L	0.005	83	15	8	53	KED
| Ni	62	0.015	ug/L	0.021	145	5	7	43	KED
| Cu	63	0.003	ug/L	0.004	118	47	52	20	KED
| Cu	65	0.007	ug/L	0.009	127	21	29	41	KED
| Zn	66	0.183	ug/L	0.008	4	29	97	2	KED
| Zn	67	0.141	ug/L	0.136	96	4	13	65	KED
| As	75	0.004	ug/L	0.003	64	3	4	15	KED
| Se-1	78	0.001	ug/L	0.021	3040	11	10	7	KED
Y	89		ug/L			752471	682641	3	Standard
Kr	83		ug/L			79	80	26	Standard
[> In-1	115		ug/L			19356	18650	0	KED
| Cd	111	0.012	ug/L	0.005	45	1	4	32	KED
| Cd	114	0.003	ug/L	0.003	93	3	5	33	KED
[> In	115		ug/L			1103678	1048286	3	Standard
| Ag	107	0.001	ug/L	0.000	49	92	97	8	Standard
| Ba	135	0.002	ug/L	0.001	77	10	17	29	Standard
| Ba	137	0.001	ug/L	0.001	109	24	31	31	Standard
[> Tb	159		ug/L			1402493	1345976	2	Standard
| Pb	208	-0.001	ug/L	0.001	76	468	399	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0575-BLK1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 17:05:40**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	26461	3	Standard
Cl	37		ug/L			5295021	5037906	1	Standard
> Sc	45		ug/L			1418735	1230020	0	Standard
| Cr	52	0.184	ug/L	0.023	12	23249	24157	1	Standard
| Cr	53	0.129	ug/L	0.026	19	2296	2325	3	Standard
> Ge-1	72		ug/L			66481	62715	1	KED
| Ni	60	0.016	ug/L	0.011	67	15	31	34	KED
| Ni	62	0.029	ug/L	0.017	58	5	10	28	KED
| Cu	63	0.097	ug/L	0.009	8	47	318	6	KED
| Cu	65	0.107	ug/L	0.007	6	21	170	5	KED
| Zn	66	2.339	ug/L	0.143	6	29	940	5	KED
| Zn	67	2.069	ug/L	0.298	14	4	142	14	KED
| As	75	0.007	ug/L	0.004	59	3	5	18	KED
| Se-1	78	0.012	ug/L	0.057	470	11	10	12	KED
Y	89		ug/L			752471	702700	2	Standard
Kr	83		ug/L			79	80	7	Standard
> In-1	115		ug/L			19356	18674	2	KED
| Cd	111	0.006	ug/L	0.006	100	1	2	57	KED
| Cd	114	0.002	ug/L	0.001	58	3	4	15	KED
> In	115		ug/L			1103678	1050181	1	Standard
| Ag	107	-0.001	ug/L	0.001	86	92	77	12	Standard
| Ba	135	0.026	ug/L	0.002	8	10	129	6	Standard
| Ba	137	0.025	ug/L	0.001	4	24	224	5	Standard
> Tb	159		ug/L			1402493	1352523	2	Standard
| Pb	208	-0.004	ug/L	0.001	16	468	270	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810292-01**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 17:10:14**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	45602	3	Standard
Cl	37		ug/L			5295021	17981335	2	Standard
> Sc	45		ug/L			1418735	1440515	1	Standard
| Cr	52	50.644	ug/L	0.959	1	23249	1310485	2	Standard
| Cr	53	61.229	ug/L	0.776	1	2296	188159	0	Standard
> Ge-1	72		ug/L			66481	55617	1	KED
| Ni	60	17.663	ug/L	0.256	1	15	16177	1	KED
| Ni	62	17.682	ug/L	0.682	3	5	2576	2	KED
| Cu	63	22.805	ug/L	0.078	0	47	56994	1	KED
| Cu	65	22.784	ug/L	0.758	3	21	28521	1	KED
| Zn	66	51.753	ug/L	1.723	3	29	17931	1	KED
| Zn	67	47.896	ug/L	1.561	3	4	2847	2	KED
| As	75	0.491	ug/L	0.010	1	3	110	1	KED
| Se-1	78	0.215	ug/L	0.157	72	11	14	24	KED
Y	89		ug/L			752471	717177	2	Standard
Kr	83		ug/L			79	275	7	Standard
> In-1	115		ug/L			19356	16843	0	KED
| Cd	111	2.204	ug/L	0.060	2	1	548	1	KED
| Cd	114	2.117	ug/L	0.114	5	3	1351	4	KED
> In	115		ug/L			1103678	1017703	2	Standard
| Ag	107	0.021	ug/L	0.001	3	92	439	4	Standard
| Ba	135	2.920	ug/L	0.043	1	10	13143	1	Standard
| Ba	137	2.806	ug/L	0.025	0	24	22385	1	Standard
> Tb	159		ug/L			1402493	1342098	3	Standard
| Pb	208	1.044	ug/L	0.027	2	468	46279	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **18I0293-01**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 17:14:49**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	2460983	1	Standard
Cl	37		ug/L			5295021	5145421	0	Standard
> Sc	45		ug/L			1418735	1235441	2	Standard
| Cr	52	26.393	ug/L	0.451	1	23249	595222	0	Standard
| Cr	53	20.052	ug/L	0.600	2	2296	54175	0	Standard
> Ge-1	72		ug/L			66481	40741	1	KED
| Ni	60	43.257	ug/L	0.386	0	15	29007	1	KED
| Ni	62	42.753	ug/L	1.612	3	5	4560	3	KED
| Cu	63	0.739	ug/L	0.026	3	47	1381	3	KED
| Cu	65	0.758	ug/L	0.021	2	21	707	1	KED
| Zn	66	23.266	ug/L	0.402	1	29	5916	2	KED
| Zn	67	38.589	ug/L	0.527	1	4	1681	2	KED
| As	75	0.496	ug/L	0.014	2	3	81	1	KED
| Se-1	78	0.244	ug/L	0.106	43	11	11	17	KED
| Y	89		ug/L			752471	688027	2	Standard
| Kr	83		ug/L			79	174	1	Standard
> In-1	115		ug/L			19356	13307	1	KED
| Cd	111	0.114	ug/L	0.011	9	1	23	8	KED
| Cd	114	0.082	ug/L	0.027	32	3	43	30	KED
> In	115		ug/L			1103678	838312	0	Standard
| Ag	107	0.005	ug/L	0.002	39	92	139	18	Standard
| Ba	135	314.382	ug/L	2.332	0	10	1164992	0	Standard
| Ba	137	309.376	ug/L	3.115	1	24	2031351	1	Standard
> Tb	159		ug/L			1402493	1111037	2	Standard
| Pb	208	0.035	ug/L	0.002	6	468	1635	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810294-01**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 17:19:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	84394	1	Standard
Cl	37		ug/L			5295021	9022382	1	Standard
> Sc	45		ug/L			1418735	1349203	3	Standard
| Cr	52	0.475	ug/L	0.059	12	23249	33375	1	Standard
| Cr	53	2.824	ug/L	0.102	3	2296	10205	0	Standard
> Ge-1	72		ug/L			66481	53015	1	KED
| Ni	60	5.749	ug/L	0.217	3	15	5025	2	KED
| Ni	62	5.656	ug/L	0.743	13	5	787	11	KED
| Cu	63	5.799	ug/L	0.215	3	47	13839	2	KED
| Cu	65	5.841	ug/L	0.057	0	21	6985	2	KED
| Zn	66	68.681	ug/L	2.529	3	29	22675	2	KED
| Zn	67	66.207	ug/L	3.088	4	4	3749	3	KED
| As	75	1.001	ug/L	0.097	9	3	211	8	KED
| Se-1	78	0.125	ug/L	0.113	90	11	11	23	KED
Y	89		ug/L			752471	700104	3	Standard
Kr	83		ug/L			79	90	25	Standard
> In-1	115		ug/L			19356	16306	1	KED
| Cd	111	0.058	ug/L	0.018	30	1	14	28	KED
| Cd	114	0.040	ug/L	0.013	32	3	27	28	KED
> In	115		ug/L			1103678	1009716	3	Standard
| Ag	107	0.001	ug/L	0.001	90	92	94	7	Standard
| Ba	135	29.819	ug/L	0.814	2	10	133029	0	Standard
| Ba	137	29.990	ug/L	1.397	4	24	236957	1	Standard
> Tb	159		ug/L			1402493	1315714	0	Standard
| Pb	208	0.460	ug/L	0.004	0	468	20251	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 1810299-01

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 17:23:58

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	681104	1	Standard
Cl	37		ug/L			5295021	5619898	1	Standard
Sc	45		ug/L			1418735	1317563	1	Standard
Cr	52	3.372	ug/L	0.036	1	23249	99950	1	Standard
Cr	53	1.334	ug/L	0.003	0	2296	5837	1	Standard
Ge-1	72		ug/L			66481	42513	2	KED
Ni	60	8.841	ug/L	0.229	2	15	6193	2	KED
Ni	62	8.345	ug/L	0.228	2	5	932	4	KED
Cu	63	8.121	ug/L	0.267	3	47	15529	2	KED
Cu	65	8.141	ug/L	0.166	2	21	7798	0	KED
Zn	66	6.171	ug/L	0.054	0	29	1651	2	KED
Zn	67	7.287	ug/L	0.603	8	4	333	10	KED
As	75	0.234	ug/L	0.018	7	3	41	9	KED
Se-1	78	0.107	ug/L	0.127	119	11	9	24	KED
Y	89		ug/L			752471	724701	3	Standard
Kr	83		ug/L			79	119	11	Standard
In-1	115		ug/L			19356	13238	2	KED
Cd	111	0.023	ug/L	0.003	12	1	5	10	KED
Cd	114	0.010	ug/L	0.017	177	3	7	116	KED
In	115		ug/L			1103678	901539	2	Standard
Ag	107	0.001	ug/L	0.001	153	92	83	14	Standard
Ba	135	30.750	ug/L	0.715	2	10	122518	1	Standard
Ba	137	30.885	ug/L	0.561	1	24	218033	1	Standard
Tb	159		ug/L			1402493	1226700	1	Standard
Pb	208	0.013	ug/L	0.000	1	468	950	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **18I0303-01**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 17:28:33**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	65489	2	Standard
Cl	37		ug/L			5295021	5929968	4	Standard
> Sc	45		ug/L			1418735	1515527	2	Standard
| Cr	52	1.337	ug/L	0.122	9	23249	60504	2	Standard
| Cr	53	1.011	ug/L	0.047	4	2296	5679	2	Standard
> Ge-1	72		ug/L			66481	49900	1	KED
| Ni	60	4.158	ug/L	0.131	3	15	3425	2	KED
| Ni	62	4.078	ug/L	0.162	3	5	536	2	KED
| Cu	63	5.386	ug/L	0.038	0	47	12105	2	KED
| Cu	65	5.457	ug/L	0.219	4	21	6140	2	KED
| Zn	66	34.370	ug/L	0.488	1	29	10696	2	KED
| Zn	67	32.573	ug/L	0.796	2	4	1739	3	KED
| As	75	1.499	ug/L	0.084	5	3	297	4	KED
| Se-1	78	0.233	ug/L	0.238	102	11	13	37	KED
| Y	89		ug/L			752471	780262	3	Standard
| Kr	83		ug/L			79	80	10	Standard
> In-1	115		ug/L			19356	15492	1	KED
| Cd	111	0.172	ug/L	0.002	0	1	40	2	KED
| Cd	114	0.142	ug/L	0.041	29	3	86	28	KED
> In	115		ug/L			1103678	1066548	1	Standard
| Ag	107	0.007	ug/L	0.001	15	92	213	10	Standard
| Ba	135	34.356	ug/L	0.869	2	10	161967	2	Standard
| Ba	137	34.152	ug/L	0.280	0	24	285276	0	Standard
> Tb	159		ug/L			1402493	1371531	1	Standard
| Pb	208	4.644	ug/L	0.018	0	468	208847	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0575-DUP1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 17:33:08**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	75489	1	Standard
Cl	37		ug/L			5295021	6557340	0	Standard
> Sc	45		ug/L			1418735	1377553	3	Standard
| Cr	52	0.349	ug/L	0.060	17	23249	31020	1	Standard
| Cr	53	0.247	ug/L	0.070	28	2296	2942	3	Standard
> Ge-1	72		ug/L			66481	40986	0	KED
| Ni	60	3.064	ug/L	0.065	2	15	2076	1	KED
| Ni	62	2.773	ug/L	0.197	7	5	300	7	KED
| Cu	63	15.664	ug/L	0.094	0	47	28859	0	KED
| Cu	65	15.495	ug/L	0.057	0	21	14303	1	KED
| Zn	66	3.039	ug/L	0.086	2	29	793	3	KED
| Zn	67	14.028	ug/L	0.483	3	4	616	2	KED
| As	75	2.233	ug/L	0.112	5	3	362	4	KED
| Se-1	78	0.089	ug/L	0.185	207	11	8	38	KED
Y	89		ug/L			752471	727614	1	Standard
Kr	83		ug/L			79	129	20	Standard
> In-1	115		ug/L			19356	13588	1	KED
| Cd	111	0.015	ug/L	0.005	34	1	3	25	KED
| Cd	114	-0.004	ug/L	0.014	379	3	0	974	KED
> In	115		ug/L			1103678	916448	1	Standard
| Ag	107	0.000	ug/L	0.001	229	92	80	10	Standard
| Ba	135	223.679	ug/L	7.936	3	10	905746	1	Standard
| Ba	137	221.781	ug/L	3.684	1	24	1591575	1	Standard
> Tb	159		ug/L			1402493	1251687	1	Standard
| Pb	208	0.003	ug/L	0.001	40	468	543	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 1810284-01

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 17:37:42

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	76210	3	Standard
Cl	37		ug/L			5295021	6628140	3	Standard
> Sc	45		ug/L			1418735	1312484	1	Standard
| Cr	52	0.404	ug/L	0.018	4	23249	30853	0	Standard
| Cr	53	0.293	ug/L	0.018	6	2296	2935	0	Standard
> Ge-1	72		ug/L			66481	40264	1	KED
| Ni	60	3.025	ug/L	0.093	3	15	2013	2	KED
| Ni	62	3.004	ug/L	0.406	13	5	320	13	KED
| Cu	63	15.749	ug/L	0.498	3	47	28494	1	KED
| Cu	65	15.723	ug/L	0.485	3	21	14252	1	KED
| Zn	66	3.292	ug/L	0.110	3	29	843	4	KED
| Zn	67	14.621	ug/L	1.057	7	4	631	9	KED
| As	75	2.337	ug/L	0.030	1	3	372	2	KED
| Se-1	78	0.078	ug/L	0.073	93	11	8	15	KED
Y	89		ug/L			752471	732740	1	Standard
Kr	83		ug/L			79	111	18	Standard
> In-1	115		ug/L			19356	13083	1	KED
| Cd	111	0.019	ug/L	0.005	29	1	4	24	KED
| Cd	114	0.007	ug/L	0.010	153	3	5	86	KED
> In	115		ug/L			1103678	913363	1	Standard
| Ag	107	-0.000	ug/L	0.001	1471	92	75	14	Standard
| Ba	135	225.195	ug/L	7.808	3	10	908859	1	Standard
| Ba	137	221.468	ug/L	5.394	2	24	1583874	1	Standard
> Tb	159		ug/L			1402493	1239084	1	Standard
| Pb	208	0.002	ug/L	0.001	54	468	497	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0575-MS1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 17:42:17**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	73991	2	Standard
Cl	37		ug/L			5295021	6719516	1	Standard
> Sc	45		ug/L			1418735	1343815	1	Standard
| Cr	52	22.529	ug/L	0.613	2	23249	555856	1	Standard
| Cr	53	22.289	ug/L	0.193	0	2296	65285	1	Standard
> Ge-1	72		ug/L			66481	41031	1	KED
| Ni	60	30.275	ug/L	0.523	1	15	20446	0	KED
| Ni	62	29.615	ug/L	1.021	3	5	3181	2	KED
| Cu	63	41.785	ug/L	0.913	2	47	76999	0	KED
| Cu	65	40.709	ug/L	1.654	4	21	37578	2	KED
| Zn	66	74.465	ug/L	1.438	1	29	19027	0	KED
| Zn	67	81.339	ug/L	2.212	2	4	3564	0	KED
| As	75	28.232	ug/L	0.862	3	3	4563	1	KED
| Se-1	78	75.808	ug/L	2.084	2	11	1353	0	KED
Y	89		ug/L			752471	733690	1	Standard
Kr	83		ug/L			79	154	12	Standard
> In-1	115		ug/L			19356	13440	0	KED
| Cd	111	22.584	ug/L	0.389	1	1	4477	1	KED
| Cd	114	23.235	ug/L	0.273	1	3	11812	1	KED
> In	115		ug/L			1103678	897820	1	Standard
| Ag	107	22.166	ug/L	0.457	2	92	328011	1	Standard
| Ba	135	256.249	ug/L	7.110	2	10	1016763	1	Standard
| Ba	137	247.288	ug/L	4.838	1	24	1739030	2	Standard
> Tb	159		ug/L			1402493	1214023	0	Standard
| Pb	208	25.155	ug/L	0.501	1	468	999551	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0575-BS1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 17:46:52**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	33283	4	Standard
Cl	37		ug/L			5295021	6088106	1	Standard
[> Sc	45		ug/L			1418735	1420578	1	Standard
[Cr	52	25.411	ug/L	0.930	3	23249	659738	2	Standard
[Cr	53	24.585	ug/L	0.573	2	2296	75871	1	Standard
[> Ge-1	72		ug/L			66481	53592	0	KED
[Ni	60	28.731	ug/L	0.715	2	15	25349	2	KED
[Ni	62	27.089	ug/L	1.020	3	5	3803	4	KED
[Cu	63	28.647	ug/L	0.803	2	47	68971	2	KED
[Cu	65	28.928	ug/L	0.822	2	21	34894	2	KED
[Zn	66	93.281	ug/L	0.477	0	29	31133	0	KED
[Zn	67	85.366	ug/L	3.847	4	4	4887	3	KED
[As	75	25.473	ug/L	0.407	1	3	5379	1	KED
[Se-1	78	84.129	ug/L	1.788	2	11	1961	2	KED
[Y	89		ug/L			752471	753412	2	Standard
[Kr	83		ug/L			79	64	10	Standard
[> In-1	115		ug/L			19356	16380	2	KED
[Cd	111	26.433	ug/L	0.500	1	1	6385	2	KED
[Cd	114	26.935	ug/L	0.981	3	3	16676	1	KED
[> In	115		ug/L			1103678	1071708	2	Standard
[Ag	107	27.309	ug/L	0.724	2	92	482244	0	Standard
[Ba	135	25.171	ug/L	0.840	3	10	119209	1	Standard
[Ba	137	25.713	ug/L	0.561	2	24	215788	1	Standard
[> Tb	159		ug/L			1402493	1376395	3	Standard
[Pb	208	28.476	ug/L	0.747	2	468	1282083	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 17:52:32

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	23261	2	Standard
Cl	37		ug/L			5295021	5730040	2	Standard
[> Sc	45		ug/L			1418735	1403732	0	Standard
| Cr	52	48.763	ug/L	0.727	1	23249	1230214	0	Standard
| Cr	53	47.229	ug/L	0.713	1	2296	141949	0	Standard
[> Ge-1	72		ug/L			66481	52193	1	KED
| Ni	60	54.053	ug/L	0.807	1	15	46432	0	KED
| Ni	62	53.097	ug/L	1.575	2	5	7255	3	KED
| Cu	63	54.458	ug/L	1.902	3	47	127651	2	KED
| Cu	65	54.238	ug/L	1.493	2	21	63700	1	KED
| Zn	66	53.076	ug/L	1.586	2	29	17259	2	KED
| Zn	67	51.615	ug/L	1.478	2	4	2880	3	KED
| As	75	50.064	ug/L	0.489	0	3	10294	0	KED
| Se-1	78	51.107	ug/L	1.041	2	11	1164	3	KED
Y	89		ug/L			752471	742537	1	Standard
Kr	83		ug/L			79	85	16	Standard
[> In-1	115		ug/L			19356	15860	4	KED
| Cd	111	50.833	ug/L	1.430	2	1	11883	1	KED
| Cd	114	52.168	ug/L	1.140	2	3	31277	2	KED
[> In	115		ug/L			1103678	1053310	1	Standard
| Ag	107	49.955	ug/L	0.701	1	92	867151	0	Standard
| Ba	135	49.535	ug/L	0.692	1	10	230630	1	Standard
| Ba	137	50.012	ug/L	1.439	2	24	412476	1	Standard
[> Tb	159		ug/L			1402493	1311009	2	Standard
| Pb	208	54.817	ug/L	1.537	2	468	2350873	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 17:59:51

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	20773	1	Standard
Cl	37		ug/L			5295021	5549520	2	Standard
[> Sc	45		ug/L			1418735	1382759	0	Standard
| Cr	52	-0.045	ug/L	0.033	74	23249	21571	4	Standard
| Cr	53	-0.517	ug/L	0.009	1	2296	732	3	Standard
[> Ge-1	72		ug/L			66481	53813	1	KED
| Ni	60	-0.007	ug/L	0.001	18	15	6	15	KED
| Ni	62	0.003	ug/L	0.020	665	5	5	57	KED
| Cu	63	-0.001	ug/L	0.003	174	47	34	16	KED
| Cu	65	-0.004	ug/L	0.008	200	21	12	75	KED
| Zn	66	0.064	ug/L	0.015	23	29	45	11	KED
| Zn	67	0.059	ug/L	0.052	87	4	6	41	KED
| As	75	0.008	ug/L	0.004	56	3	4	20	KED
| Se-1	78	-0.052	ug/L	0.089	171	11	7	25	KED
Y	89		ug/L			752471	729889	1	Standard
Kr	83		ug/L			79	69	34	Standard
[> In-1	115		ug/L			19356	16155	2	KED
| Cd	111	0.009	ug/L	0.012	137	1	3	91	KED
| Cd	114	-0.000	ug/L	0.005	2776	3	3	93	KED
[> In	115		ug/L			1103678	1028271	0	Standard
| Ag	107	0.003	ug/L	0.003	103	92	137	38	Standard
| Ba	135	0.010	ug/L	0.001	12	10	55	9	Standard
| Ba	137	0.010	ug/L	0.002	20	24	102	15	Standard
[> Tb	159		ug/L			1402493	1315994	1	Standard
| Pb	208	0.000	ug/L	0.003	671	468	457	26	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0400-BLK1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 18:04:26**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	33930	3	Standard
Cl	37		ug/L			5295021	5597644	4	Standard
> Sc	45		ug/L			1418735	1491755	2	Standard
| Cr	52	0.024	ug/L	0.024	99	23249	25069	3	Standard
| Cr	53	-0.493	ug/L	0.009	1	2296	865	4	Standard
> Ge-1	72		ug/L			66481	53758	0	KED
| Ni	60	0.006	ug/L	0.001	18	15	18	5	KED
| Ni	62	-0.015	ug/L	0.021	140	5	2	114	KED
| Cu	63	0.253	ug/L	0.011	4	47	650	3	KED
| Cu	65	0.256	ug/L	0.020	7	21	327	8	KED
| Zn	66	2.176	ug/L	0.150	6	29	751	6	KED
| Zn	67	2.206	ug/L	0.265	12	4	130	11	KED
| As	75	0.017	ug/L	0.004	23	3	6	12	KED
| Se-1	78	-0.059	ug/L	0.074	126	11	7	22	KED
| Y	89		ug/L			752471	738567	1	Standard
| Kr	83		ug/L			79	74	4	Standard
> In-1	115		ug/L			19356	16992	0	KED
| Cd	111	0.001	ug/L	0.002	354	1	1	43	KED
| Cd	114	0.000	ug/L	0.003	652	3	3	51	KED
> In	115		ug/L			1103678	1085767	1	Standard
| Ag	107	-0.000	ug/L	0.001	459	92	86	22	Standard
| Ba	135	0.009	ug/L	0.002	20	10	53	15	Standard
| Ba	137	0.007	ug/L	0.002	31	24	80	21	Standard
> Tb	159		ug/L			1402493	1375982	2	Standard
| Pb	208	0.001	ug/L	0.001	71	468	526	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0305-01

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 18:09:01

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	43773	1	Standard
Cl	37		ug/L			5295021	5920726	2	Standard
Sc	45		ug/L			1418735	1481252	1	Standard
Cr	52	0.648	ug/L	0.097	15	23249	41173	4	Standard
Cr	53	0.355	ug/L	0.020	5	2296	3506	1	Standard
Ge-1	72		ug/L			66481	50757	2	KED
Ni	60	3.469	ug/L	0.226	6	15	2906	4	KED
Ni	62	3.367	ug/L	0.033	0	5	451	1	KED
Cu	63	7.591	ug/L	0.057	0	47	17336	1	KED
Cu	65	7.637	ug/L	0.334	4	21	8732	2	KED
Zn	66	173.093	ug/L	5.963	3	29	54668	1	KED
Zn	67	161.690	ug/L	9.472	5	4	8758	3	KED
As	75	2.105	ug/L	0.096	4	3	423	2	KED
Se-1	78	0.120	ug/L	0.116	96	11	11	21	KED
Y	89		ug/L			752471	742814	3	Standard
Kr	83		ug/L			79	69	22	Standard
In-1	115		ug/L			19356	15451	2	KED
Cd	111	0.107	ug/L	0.012	11	1	25	11	KED
Cd	114	0.095	ug/L	0.021	22	3	58	22	KED
In	115		ug/L			1103678	1010884	0	Standard
Ag	107	0.001	ug/L	0.001	39	92	107	8	Standard
Ba	135	63.084	ug/L	1.219	1	10	281895	1	Standard
Ba	137	63.085	ug/L	0.739	1	24	499498	1	Standard
Tb	159		ug/L			1402493	1307247	1	Standard
Pb	208	2.041	ug/L	0.106	5	468	87672	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0152-03

Sample Dil Factor: DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 18:13:36

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	74493	2	Standard
Cl	37		ug/L			5295021	162969163	3	Standard
> Sc	45		ug/L			1418735	1113256	2	Standard
| Cr	52	1.905	ug/L	0.093	4	23249	55633	1	Standard
| Cr	53	61.019	ug/L	2.728	4	2296	144850	2	Standard
> Ge-1	72		ug/L			66481	26358	0	KED
| Ni	60	1.167	ug/L	0.062	5	15	512	4	KED
| Ni	62	4.000	ug/L	0.387	9	5	278	9	KED
| Cu	63	0.792	ug/L	0.039	4	47	956	5	KED
| Cu	65	0.170	ug/L	0.048	28	21	109	25	KED
| Zn	66	3.113	ug/L	0.130	4	29	522	4	KED
| Zn	67	3.817	ug/L	0.465	12	4	109	12	KED
| As	75	2.513	ug/L	0.093	3	3	262	3	KED
| Se-1	78	5.246	ug/L	0.141	2	11	64	1	KED
Y	89		ug/L			752471	462700	1	Standard
Kr	83		ug/L			79	61954	3	Standard
> In-1	115		ug/L			19356	8673	2	KED
| Cd	111	-0.002	ug/L	0.004	213	1	0	173	KED
| Cd	114	-0.001	ug/L	0.004	273	3	1	105	KED
> In	115		ug/L			1103678	574254	1	Standard
| Ag	107	0.029	ug/L	0.003	11	92	318	8	Standard
| Ba	135	25.131	ug/L	0.219	0	10	63796	0	Standard
| Ba	137	24.434	ug/L	0.604	2	24	109882	1	Standard
> Tb	159		ug/L			1402493	718110	0	Standard
| Pb	208	0.009	ug/L	0.000	4	468	457	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0152-04

DEL

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 18:18:11

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	31593	0	Standard
Cl	37		ug/L			5295021	227045247	3	Standard
> Sc	45		ug/L			1418735	850737	2	Standard
Cr	52	7.122	ug/L	0.261	3	23249	120748	2	Standard
Cr	53	122.022	ug/L	3.924	3	2296	220002	1	Standard
> Ge-1	72		ug/L			66481	21508	1	KED
Ni	60	11.959	ug/L	0.334	2	15	4236	1	KED
Ni	62	15.902	ug/L	1.593	10	5	896	9	KED
Cu	63	1.285	ug/L	0.075	5	47	1256	5	KED
Cu	65	0.234	ug/L	0.024	10	21	120	9	KED
Zn	66	6.395	ug/L	0.360	5	29	866	6	KED
Zn	67	10.529	ug/L	0.285	2	4	243	1	KED
As	75	0.761	ug/L	0.042	5	3	65	6	KED
Se-1	78	3.860	ug/L	0.250	6	11	39	4	KED
Y	89		ug/L			752471	411580	2	Standard
Kr	83		ug/L			79	262933	3	Standard
> In-1	115		ug/L			19356	7602	3	KED
Cd	111	0.026	ug/L	0.017	62	1	3	56	KED
Cd	114	0.009	ug/L	0.017	196	3	3	123	KED
> In	115		ug/L			1103678	448185	0	Standard
Ag	107	0.012	ug/L	0.002	14	92	123	10	Standard
Ba	135	145.266	ug/L	2.690	1	10	287782	1	Standard
Ba	137	142.411	ug/L	2.705	1	24	499852	1	Standard
> Tb	159		ug/L			1402493	552744	1	Standard
Pb	208	0.027	ug/L	0.001	4	468	678	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810152-05**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 18:22:45**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	143924	1	Standard
Cl	37		ug/L			5295021	106951252	4	Standard
> Sc	45		ug/L			1418735	1283902	1	Standard
| Cr	52	8.975	ug/L	0.128	1	23249	224266	0	Standard
| Cr	53	78.487	ug/L	1.098	1	2296	214388	1	Standard
> Ge-1	72		ug/L			66481	34479	0	KED
| Ni	60	3.547	ug/L	0.117	3	15	2020	3	KED
| Ni	62	7.568	ug/L	0.363	4	5	685	5	KED
| Cu	63	1.779	ug/L	0.013	0	47	2778	0	KED
| Cu	65	1.095	ug/L	0.084	7	21	860	7	KED
| Zn	66	3.369	ug/L	0.045	1	29	738	1	KED
| Zn	67	3.560	ug/L	0.528	14	4	133	14	KED
| As	75	6.008	ug/L	0.314	5	3	817	5	KED
| Se-1	78	2.452	ug/L	0.109	4	11	42	4	KED
| Y	89		ug/L			752471	608014	2	Standard
| Kr	83		ug/L			79	93424	3	Standard
> In-1	115		ug/L			19356	11656	0	KED
| Cd	111	0.014	ug/L	0.008	59	1	3	45	KED
| Cd	114	0.006	ug/L	0.018	300	3	4	161	KED
> In	115		ug/L			1103678	707091	3	Standard
| Ag	107	0.077	ug/L	0.008	9	92	955	6	Standard
| Ba	135	2.513	ug/L	0.072	2	10	7857	0	Standard
| Ba	137	2.527	ug/L	0.051	2	24	14002	1	Standard
> Tb	159		ug/L			1402493	907606	2	Standard
| Pb	208	0.025	ug/L	0.001	2	468	1050	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810152-06**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 18:27:20**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	104839	2	Standard
Cl	37		ug/L			5295021	6048572	1	Standard
> Sc	45		ug/L			1418735	1433852	3	Standard
| Cr	52	4.954	ug/L	0.219	4	23249	148655	1	Standard
| Cr	53	9.975	ug/L	0.392	3	2296	32428	1	Standard
> Ge-1	72		ug/L			66481	56474	0	KED
| Ni	60	1.589	ug/L	0.052	3	15	1490	3	KED
| Ni	62	2.511	ug/L	0.186	7	5	375	7	KED
| Cu	63	0.411	ug/L	0.027	6	47	1082	6	KED
| Cu	65	0.384	ug/L	0.046	11	21	506	11	KED
| Zn	66	3.834	ug/L	0.203	5	29	1372	5	KED
| Zn	67	4.087	ug/L	0.556	13	4	250	13	KED
| As	75	5.097	ug/L	0.013	0	3	1137	0	KED
| Se-1	78	1.204	ug/L	0.064	5	11	38	3	KED
Y	89		ug/L			752471	746928	4	Standard
Kr	83		ug/L			79	2221	8	Standard
> In-1	115		ug/L			19356	17400	0	KED
| Cd	111	0.004	ug/L	0.006	135	1	2	65	KED
| Cd	114	0.002	ug/L	0.010	543	3	4	143	KED
> In	115		ug/L			1103678	954657	3	Standard
| Ag	107	0.019	ug/L	0.001	4	92	372	0	Standard
| Ba	135	7.449	ug/L	0.299	4	10	31421	1	Standard
| Ba	137	7.386	ug/L	0.218	2	24	55214	0	Standard
> Tb	159		ug/L			1402493	1265268	0	Standard
| Pb	208	0.120	ug/L	0.003	2	468	5406	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0400-DUP1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 18:31:55**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	40426	1	Standard
Cl	37		ug/L			5295021	5249243	1	Standard
> Sc	45		ug/L			1418735	1397882	3	Standard
| Cr	52	0.193	ug/L	0.050	26	23249	27631	1	Standard
| Cr	53	2.165	ug/L	0.041	1	2296	8640	3	Standard
> Ge-1	72		ug/L			66481	62702	1	KED
| Ni	60	0.117	ug/L	0.016	13	15	135	11	KED
| Ni	62	0.366	ug/L	0.033	9	5	65	7	KED
| Cu	63	0.098	ug/L	0.019	19	47	321	17	KED
| Cu	65	0.097	ug/L	0.031	31	21	156	26	KED
| Zn	66	3.516	ug/L	0.145	4	29	1400	4	KED
| Zn	67	2.963	ug/L	0.085	2	4	202	1	KED
| As	75	0.926	ug/L	0.037	4	3	232	4	KED
| Se-1	78	0.058	ug/L	0.089	152	11	12	20	KED
| Y	89		ug/L			752471	751691	2	Standard
| Kr	83		ug/L			79	337	10	Standard
> In-1	115		ug/L			19356	19421	0	KED
| Cd	111	-0.002	ug/L	0.002	85	1	0	86	KED
| Cd	114	0.006	ug/L	0.004	71	3	7	36	KED
> In	115		ug/L			1103678	1047376	1	Standard
| Ag	107	0.000	ug/L	0.000	898	92	88	9	Standard
| Ba	135	0.162	ug/L	0.005	3	10	762	3	Standard
| Ba	137	0.152	ug/L	0.003	2	24	1269	0	Standard
> Tb	159		ug/L			1402493	1372139	1	Standard
| Pb	208	0.006	ug/L	0.001	11	468	715	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810152-01**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 18:36:30**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	38225	1	Standard
Cl	37		ug/L			5295021	4992359	1	Standard
> Sc	45		ug/L			1418735	1374478	2	Standard
| Cr	52	0.181	ug/L	0.028	15	23249	26894	1	Standard
| Cr	53	1.229	ug/L	0.037	2	2296	5783	0	Standard
> Ge-1	72		ug/L			66481	60106	1	KED
| Ni	60	0.093	ug/L	0.009	9	15	106	8	KED
| Ni	62	0.177	ug/L	0.065	36	5	33	31	KED
| Cu	63	0.126	ug/L	0.009	7	47	382	4	KED
| Cu	65	0.108	ug/L	0.022	20	21	166	19	KED
| Zn	66	2.880	ug/L	0.271	9	29	1102	7	KED
| Zn	67	2.463	ug/L	0.200	8	4	161	6	KED
| As	75	0.922	ug/L	0.077	8	3	221	8	KED
| Se-1	78	-0.038	ug/L	0.038	99	11	9	10	KED
| Y	89		ug/L			752471	706963	4	Standard
| Kr	83		ug/L			79	164	16	Standard
> In-1	115		ug/L			19356	19084	0	KED
| Cd	111	0.007	ug/L	0.007	102	1	3	62	KED
| Cd	114	-0.003	ug/L	0.005	154	3	1	239	KED
> In	115		ug/L			1103678	1035227	0	Standard
| Ag	107	0.000	ug/L	0.001	230	92	93	17	Standard
| Ba	135	0.166	ug/L	0.008	5	10	767	4	Standard
| Ba	137	0.168	ug/L	0.002	0	24	1387	0	Standard
> Tb	159		ug/L			1402493	1340892	1	Standard
| Pb	208	0.006	ug/L	0.001	19	468	708	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0400-MS1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 18:41:04**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	40366	0	Standard
Cl	37		ug/L			5295021	4936519	1	Standard
[> Sc	45		ug/L			1418735	1369989	1	Standard
[Cr	52	25.628	ug/L	0.612	2	23249	641657	1	Standard
[Cr	53	25.968	ug/L	0.367	1	2296	77185	2	Standard
[> Ge-1	72		ug/L			66481	59639	1	KED
[Ni	60	27.734	ug/L	0.514	1	15	27227	0	KED
[Ni	62	27.623	ug/L	1.248	4	5	4313	3	KED
[Cu	63	26.606	ug/L	0.747	2	47	71286	2	KED
[Cu	65	26.976	ug/L	0.481	1	21	36214	1	KED
[Zn	66	76.562	ug/L	1.691	2	29	28437	1	KED
[Zn	67	71.376	ug/L	2.436	3	4	4547	2	KED
[As	75	25.322	ug/L	0.719	2	3	5949	1	KED
[Se-1	78	69.976	ug/L	0.600	0	11	1817	1	KED
[Y	89		ug/L			752471	686679	1	Standard
[Kr	83		ug/L			79	134	10	Standard
[> In-1	115		ug/L			19356	18660	1	KED
[Cd	111	24.003	ug/L	0.321	1	1	6606	1	KED
[Cd	114	24.237	ug/L	0.523	2	3	17106	2	KED
[> In	115		ug/L			1103678	1012465	1	Standard
[Ag	107	26.622	ug/L	0.986	3	92	444129	2	Standard
[Ba	135	28.154	ug/L	0.050	0	10	126014	1	Standard
[Ba	137	27.551	ug/L	1.047	3	24	218500	4	Standard
[> Tb	159		ug/L			1402493	1355998	1	Standard
[Pb	208	24.461	ug/L	0.794	3	468	1085295	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0400-BS1**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 18:45:39**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	33066	4	Standard
Cl	37		ug/L			5295021	4646241	1	Standard
[> Sc	45		ug/L			1418735	1148310	6	Standard
| Cr	52	29.587	ug/L	2.185	7	23249	616057	0	Standard
| Cr	53	28.984	ug/L	2.264	7	2296	71739	0	Standard
[> Ge-1	72		ug/L			66481	60707	1	KED
| Ni	60	26.626	ug/L	0.929	3	15	26606	2	KED
| Ni	62	27.216	ug/L	0.537	1	5	4328	3	KED
| Cu	63	27.475	ug/L	0.509	1	47	74935	1	KED
| Cu	65	28.146	ug/L	0.207	0	21	38467	2	KED
| Zn	66	81.153	ug/L	2.971	3	29	30676	2	KED
| Zn	67	77.738	ug/L	1.321	1	4	5042	1	KED
| As	75	24.355	ug/L	0.488	2	3	5825	0	KED
| Se-1	78	77.187	ug/L	2.484	3	11	2038	1	KED
| Y	89		ug/L			752471	634387	6	Standard
| Kr	83		ug/L			79	142	16	Standard
[> In-1	115		ug/L			19356	19335	1	KED
| Cd	111	23.864	ug/L	0.869	3	1	6804	2	KED
| Cd	114	24.034	ug/L	0.213	0	3	17575	0	KED
[> In	115		ug/L			1103678	980239	6	Standard
| Ag	107	28.149	ug/L	1.956	6	92	453542	1	Standard
| Ba	135	28.092	ug/L	2.649	9	10	121269	3	Standard
| Ba	137	28.056	ug/L	1.993	7	24	214790	1	Standard
[> Tb	159		ug/L			1402493	1236730	8	Standard
| Pb	208	27.008	ug/L	2.117	7	468	1088797	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 18:51:19

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	19886	1	Standard
Cl	37		ug/L			5295021	4936750	2	Standard
[> Sc	45		ug/L			1418735	1150269	1	Standard
| Cr	52	52.861	ug/L	2.050	3	23249	1090870	2	Standard
| Cr	53	53.367	ug/L	1.691	3	2296	131163	1	Standard
[> Ge-1	72		ug/L			66481	59052	1	KED
| Ni	60	50.449	ug/L	0.865	1	15	49030	0	KED
| Ni	62	50.015	ug/L	1.633	3	5	7734	4	KED
| Cu	63	51.762	ug/L	0.409	0	47	137303	1	KED
| Cu	65	51.709	ug/L	0.712	1	21	68721	1	KED
| Zn	66	51.542	ug/L	0.782	1	29	18970	2	KED
| Zn	67	50.813	ug/L	1.713	3	4	3206	1	KED
| As	75	51.376	ug/L	0.420	0	3	11951	0	KED
| Se-1	78	51.727	ug/L	1.095	2	11	1332	1	KED
Y	89		ug/L			752471	645156	1	Standard
Kr	83		ug/L			79	125	20	Standard
[> In-1	115		ug/L			19356	18110	3	KED
| Cd	111	49.442	ug/L	2.060	4	1	13196	1	KED
| Cd	114	50.687	ug/L	1.884	3	3	34690	1	KED
[> In	115		ug/L			1103678	946203	0	Standard
| Ag	107	53.170	ug/L	2.544	4	92	829078	4	Standard
| Ba	135	54.689	ug/L	2.101	3	10	228728	3	Standard
| Ba	137	52.974	ug/L	0.434	0	24	392576	0	Standard
[> Tb	159		ug/L			1402493	1259951	1	Standard
| Pb	208	48.044	ug/L	1.589	3	468	1980447	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 18:58:38

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			22497	18130	5	Standard
Cl	37	ug/L			5295021	4834850	0	Standard
[> Sc	45	ug/L			1418735	1172049	1	Standard
| Cr	52	ug/L	0.034	166	23249	19620	2	Standard
| Cr	53	ug/L	0.031	6	2296	3155	1	Standard
[> Ge-1	72	ug/L			66481	58744	0	KED
| Ni	60	ug/L	0.002	28	15	6	34	KED
| Ni	62	ug/L	0.031	93	5	10	47	KED
| Cu	63	ug/L	0.002	132	47	38	13	KED
| Cu	65	ug/L	0.008	247	21	23	46	KED
| Zn	66	ug/L	0.059	68	29	57	37	KED
| Zn	67	ug/L	0.142	89	4	13	64	KED
| As	75	ug/L	0.011	243	3	4	59	KED
| Se-1	78	ug/L	0.142	247	11	11	31	KED
Y	89	ug/L			752471	645318	1	Standard
Kr	83	ug/L			79	103	4	Standard
[> In-1	115	ug/L			19356	18234	1	KED
| Cd	111	ug/L	0.002	43	1	2	21	KED
| Cd	114	ug/L	0.004	672	3	3	96	KED
[> In	115	ug/L			1103678	996860	3	Standard
| Ag	107	ug/L	0.001	78	92	98	15	Standard
| Ba	135	ug/L	0.002	134	10	15	49	Standard
| Ba	137	ug/L	0.001	1291	24	22	50	Standard
[> Tb	159	ug/L			1402493	1269781	4	Standard
| Pb	208	ug/L	0.000	7	468	321	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **18I0152-08**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 19:03:13**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	38502	1	Standard
Cl	37		ug/L			5295021	4851143	2	Standard
[> Sc	45		ug/L			1418735	1379643	2	Standard
[Cr	52	0.801	ug/L	0.051	6	23249	42069	1	Standard
[Cr	53	1.093	ug/L	0.087	7	2296	5404	1	Standard
[> Ge-1	72		ug/L			66481	58415	1	KED
[Ni	60	0.247	ug/L	0.020	8	15	251	6	KED
[Ni	62	0.225	ug/L	0.053	23	5	39	19	KED
[Cu	63	0.817	ug/L	0.017	2	47	2185	0	KED
[Cu	65	0.861	ug/L	0.031	3	21	1150	4	KED
[Zn	66	3.985	ug/L	0.037	0	29	1474	1	KED
[Zn	67	3.623	ug/L	0.067	1	4	229	1	KED
[As	75	0.250	ug/L	0.036	14	3	60	13	KED
[Se-1	78	0.065	ug/L	0.126	194	11	11	29	KED
[Y	89		ug/L			752471	717023	1	Standard
[Kr	83		ug/L			79	92	9	Standard
[> In-1	115		ug/L			19356	18019	1	KED
[Cd	111	0.006	ug/L	0.003	54	1	2	33	KED
[Cd	114	0.001	ug/L	0.003	377	3	3	46	KED
[> In	115		ug/L			1103678	1002544	0	Standard
[Ag	107	0.005	ug/L	0.002	32	92	172	16	Standard
[Ba	135	1.259	ug/L	0.037	2	10	5590	2	Standard
[Ba	137	1.249	ug/L	0.047	3	24	9828	3	Standard
[> Tb	159		ug/L			1402493	1307011	4	Standard
[Pb	208	0.143	ug/L	0.004	3	468	6557	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810152-09**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 19:07:48**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	120779	1	Standard
Cl	37		ug/L			5295021	8279702	2	Standard
[> Sc	45		ug/L			1418735	1337120	3	Standard
[Cr	52	11.011	ug/L	0.566	5	23249	281269	1	Standard
[Cr	53	15.583	ug/L	0.955	6	2296	45996	1	Standard
[> Ge-1	72		ug/L			66481	49396	1	KED
[Ni	60	3.057	ug/L	0.083	2	15	2496	2	KED
[Ni	62	3.098	ug/L	0.197	6	5	404	5	KED
[Cu	63	0.662	ug/L	0.024	3	47	1502	3	KED
[Cu	65	0.660	ug/L	0.038	5	21	748	3	KED
[Zn	66	4.707	ug/L	0.102	2	29	1468	0	KED
[Zn	67	5.319	ug/L	0.029	0	4	283	1	KED
[As	75	18.800	ug/L	0.631	3	3	3659	1	KED
[Se-1	78	1.038	ug/L	0.235	22	11	30	16	KED
[Y	89		ug/L			752471	761041	2	Standard
[Kr	83		ug/L			79	130	14	Standard
[> In-1	115		ug/L			19356	16077	1	KED
[Cd	111	0.006	ug/L	0.005	74	1	2	43	KED
[Cd	114	0.001	ug/L	0.001	124	3	3	16	KED
[> In	115		ug/L			1103678	852821	1	Standard
[Ag	107	0.046	ug/L	0.006	12	92	716	11	Standard
[Ba	135	17.479	ug/L	0.370	2	10	65891	1	Standard
[Ba	137	16.990	ug/L	0.232	1	24	113490	0	Standard
[> Tb	159		ug/L			1402493	1115067	3	Standard
[Pb	208	0.396	ug/L	0.011	2	468	14813	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **18I0152-10**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 19:12:23**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	69663	2	Standard
Cl	37		ug/L			5295021	4837170	2	Standard
> Sc	45		ug/L			1418735	1338240	2	Standard
| Cr	52	15.597	ug/L	0.653	4	23249	389972	3	Standard
| Cr	53	15.480	ug/L	0.589	3	2296	45799	2	Standard
> Ge-1	72		ug/L			66481	48880	1	KED
| Ni	60	1.063	ug/L	0.044	4	15	866	5	KED
| Ni	62	1.158	ug/L	0.127	10	5	152	11	KED
| Cu	63	2.207	ug/L	0.100	4	47	4877	3	KED
| Cu	65	2.206	ug/L	0.047	2	21	2441	1	KED
| Zn	66	3.786	ug/L	0.241	6	29	1174	6	KED
| Zn	67	4.113	ug/L	0.810	19	4	217	18	KED
| As	75	1.575	ug/L	0.012	0	3	306	1	KED
| Se-1	78	0.874	ug/L	0.069	7	11	26	6	KED
| Y	89		ug/L			752471	772498	4	Standard
| Kr	83		ug/L			79	130	3	Standard
> In-1	115		ug/L			19356	15100	1	KED
| Cd	111	0.007	ug/L	0.006	92	1	2	57	KED
| Cd	114	-0.007	ug/L	0.006	99	3	0	459	KED
> In	115		ug/L			1103678	865295	1	Standard
| Ag	107	0.090	ug/L	0.006	6	92	1354	5	Standard
| Ba	135	9.163	ug/L	0.266	2	10	35044	1	Standard
| Ba	137	9.196	ug/L	0.270	2	24	62312	0	Standard
> Tb	159		ug/L			1402493	1142305	2	Standard
| Pb	208	0.478	ug/L	0.009	1	468	18232	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0152-11

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 19:16:57

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	47130	3	Standard
Cl	37		ug/L			5295021	7680443	2	Standard
[> Sc	45		ug/L			1418735	1480153	0	Standard
[Cr	52	0.196	ug/L	0.024	12	23249	29368	3	Standard
[Cr	53	2.175	ug/L	0.088	4	2296	9178	2	Standard
[> Ge-1	72		ug/L			66481	53721	2	KED
[Ni	60	0.782	ug/L	0.030	3	15	703	3	KED
[Ni	62	0.972	ug/L	0.179	18	5	140	16	KED
[Cu	63	0.100	ug/L	0.018	17	47	279	13	KED
[Cu	65	0.096	ug/L	0.007	6	21	133	5	KED
[Zn	66	3.549	ug/L	0.193	5	29	1209	3	KED
[Zn	67	4.658	ug/L	0.366	7	4	270	6	KED
[As	75	2.370	ug/L	0.029	1	3	504	1	KED
[Se-1	78	0.213	ug/L	0.100	46	11	13	18	KED
[Y	89		ug/L			752471	673147	3	Standard
[Kr	83		ug/L			79	97	23	Standard
[> In-1	115		ug/L			19356	16553	1	KED
[Cd	111	0.010	ug/L	0.008	80	1	3	56	KED
[Cd	114	0.002	ug/L	0.003	185	3	4	44	KED
[> In	115		ug/L			1103678	942557	1	Standard
[Ag	107	0.002	ug/L	0.001	50	92	109	12	Standard
[Ba	135	18.159	ug/L	0.401	2	10	75653	0	Standard
[Ba	137	17.908	ug/L	0.161	0	24	132221	1	Standard
[> Tb	159		ug/L			1402493	1263491	3	Standard
[Pb	208	0.032	ug/L	0.000	0	468	1744	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **18I0152-13**

Sample Dil Factor:

Comments:

Sample Date/Time: **Friday, September 21, 2018 19:21:32**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	44741	3	Standard
Cl	37		ug/L			5295021	7762870	3	Standard
> Sc	45		ug/L			1418735	1467617	0	Standard
| Cr	52	0.213	ug/L	0.022	10	23249	29561	1	Standard
| Cr	53	1.890	ug/L	0.048	2	2296	8219	1	Standard
> Ge-1	72		ug/L			66481	53043	0	KED
| Ni	60	1.041	ug/L	0.119	11	15	921	11	KED
| Ni	62	1.042	ug/L	0.039	3	5	149	3	KED
| Cu	63	0.107	ug/L	0.003	2	47	292	2	KED
| Cu	65	0.115	ug/L	0.012	9	21	154	8	KED
| Zn	66	3.571	ug/L	0.218	6	29	1202	5	KED
| Zn	67	4.434	ug/L	0.263	5	4	254	5	KED
| As	75	1.570	ug/L	0.025	1	3	331	1	KED
| Se-1	78	0.167	ug/L	0.103	61	11	12	18	KED
| Y	89		ug/L			752471	665846	0	Standard
| Kr	83		ug/L			79	104	37	Standard
> In-1	115		ug/L			19356	16422	1	KED
| Cd	111	0.005	ug/L	0.006	124	1	2	65	KED
| Cd	114	-0.002	ug/L	0.003	160	3	1	115	KED
> In	115		ug/L			1103678	954540	1	Standard
| Ag	107	0.002	ug/L	0.001	40	92	117	13	Standard
| Ba	135	17.219	ug/L	0.393	2	10	72681	3	Standard
| Ba	137	17.550	ug/L	0.311	1	24	131201	0	Standard
> Tb	159		ug/L			1402493	1249530	1	Standard
| Pb	208	0.031	ug/L	0.001	2	468	1703	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0152-12

Sample Dil Factor: 5

Comments:

Sample Date/Time: Friday, September 21, 2018 19:26:07

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	50938	2	Standard
Cl	37		ug/L			5295021	6108104	0	Standard
> Sc	45		ug/L			1418735	1260429	0	Standard
| Cr	52	0.648	ug/L	0.007	1	23249	35061	0	Standard
| Cr	53	0.822	ug/L	0.045	5	2296	4221	2	Standard
> Ge-1	72		ug/L			66481	54155	3	KED
| Ni	60	0.704	ug/L	0.058	8	15	639	5	KED
| Ni	62	0.783	ug/L	0.146	18	5	115	17	KED
| Cu	63	0.061	ug/L	0.003	4	47	187	2	KED
| Cu	65	0.052	ug/L	0.003	5	21	81	5	KED
| Zn	66	1.053	ug/L	0.070	6	29	379	5	KED
| Zn	67	1.453	ug/L	0.055	3	4	87	3	KED
| As	75	2.786	ug/L	0.071	2	3	597	1	KED
| Se-1	78	0.081	ug/L	0.032	39	11	10	7	KED
Y	89		ug/L			752471	664785	2	Standard
Kr	83		ug/L			79	67	17	Standard
> In-1	115		ug/L			19356	16435	2	KED
| Cd	111	0.001	ug/L	0.002	291	1	1	43	KED
| Cd	114	0.001	ug/L	0.008	1038	3	3	140	KED
> In	115		ug/L			1103678	933679	2	Standard
| Ag	107	0.002	ug/L	0.002	89	92	105	22	Standard
| Ba	135	2.651	ug/L	0.125	4	10	10940	2	Standard
| Ba	137	2.612	ug/L	0.052	1	24	19113	0	Standard
> Tb	159		ug/L			1402493	1231690	0	Standard
| Pb	208	0.006	ug/L	0.001	9	468	636	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **18I0152-02**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, September 21, 2018 19:30:42**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	43770	1	Standard
Cl	37		ug/L			5295021	7757204	1	Standard
> Sc	45		ug/L			1418735	1294672	1	Standard
| Cr	52	5.393	ug/L	0.252	4	23249	144298	2	Standard
| Cr	53	7.953	ug/L	0.048	0	2296	23788	1	Standard
> Ge-1	72		ug/L			66481	49653	0	KED
| Ni	60	0.313	ug/L	0.029	9	15	267	9	KED
| Ni	62	0.304	ug/L	0.129	42	5	43	38	KED
| Cu	63	0.579	ug/L	0.025	4	47	1325	3	KED
| Cu	65	0.571	ug/L	0.050	8	21	653	8	KED
| Zn	66	1.130	ug/L	0.087	7	29	371	7	KED
| Zn	67	1.601	ug/L	0.209	13	4	88	13	KED
| As	75	0.715	ug/L	0.026	3	3	142	3	KED
| Se-1	78	0.263	ug/L	0.082	30	11	13	12	KED
Y	89		ug/L			752471	658983	3	Standard
Kr	83		ug/L			79	83	25	Standard
> In-1	115		ug/L			19356	15599	1	KED
| Cd	111	0.008	ug/L	0.011	138	1	2	88	KED
| Cd	114	0.005	ug/L	0.006	125	3	5	58	KED
> In	115		ug/L			1103678	919040	3	Standard
| Ag	107	0.027	ug/L	0.001	5	92	492	2	Standard
| Ba	135	2.846	ug/L	0.177	6	10	11556	3	Standard
| Ba	137	2.812	ug/L	0.146	5	24	20242	2	Standard
> Tb	159		ug/L			1402493	1203446	0	Standard
| Pb	208	0.143	ug/L	0.006	3	468	6017	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810152-07**

Sample Dil Factor: **5**

Comments:

Sample Date/Time: **Friday, September 21, 2018 19:35:17**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	85970	1	Standard
Cl	37		ug/L			5295021	41997078	1	Standard
[> Sc	45		ug/L			1418735	1225869	1	Standard
[Cr	52	2.079	ug/L	0.040	1	23249	65046	2	Standard
[Cr	53	9.669	ug/L	0.453	4	2296	26950	3	Standard
[> Ge-1	72		ug/L			66481	41274	1	KED
[Ni	60	0.444	ug/L	0.041	9	15	311	8	KED
[Ni	62	0.621	ug/L	0.137	22	5	70	19	KED
[Cu	63	0.089	ug/L	0.022	24	47	193	19	KED
[Cu	65	0.072	ug/L	0.001	0	21	80	2	KED
[Zn	66	1.803	ug/L	0.096	5	29	481	3	KED
[Zn	67	1.945	ug/L	0.407	20	4	88	18	KED
[As	75	3.079	ug/L	0.077	2	3	502	3	KED
[Se-1	78	1.090	ug/L	0.207	18	11	26	13	KED
[Y	89		ug/L			752471	660422	0	Standard
[Kr	83		ug/L			79	740	6	Standard
[> In-1	115		ug/L			19356	13133	1	KED
[Cd	111	0.010	ug/L	0.005	48	1	2	33	KED
[Cd	114	-0.001	ug/L	0.004	337	3	1	110	KED
[> In	115		ug/L			1103678	834409	2	Standard
[Ag	107	0.008	ug/L	0.001	15	92	173	11	Standard
[Ba	135	8.494	ug/L	0.318	3	10	31320	1	Standard
[Ba	137	8.581	ug/L	0.351	4	24	56056	1	Standard
[> Tb	159		ug/L			1402493	1101280	1	Standard
[Pb	208	0.002	ug/L	0.001	46	468	450	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810209-04**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Friday, September 21, 2018 19:39:51**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21476	1	Standard
Cl	37		ug/L			5295021	5299456	0	Standard
> Sc	45		ug/L			1418735	1272201	3	Standard
| Cr	52	-0.030	ug/L	0.061	202	23249	20143	2	Standard
| Cr	53	0.027	ug/L	0.031	115	2296	2129	1	Standard
> Ge-1	72		ug/L			66481	56355	0	KED
| Ni	60	237.525	ug/L	4.246	1	15	220266	1	KED
| Ni	62	237.279	ug/L	3.221	1	5	34989	1	KED
| Cu	63	0.302	ug/L	0.006	2	47	803	2	KED
| Cu	65	0.306	ug/L	0.012	3	21	406	4	KED
| Zn	66	1.391	ug/L	0.044	3	29	513	3	KED
| Zn	67	1.257	ug/L	0.215	17	4	79	15	KED
| As	75	0.008	ug/L	0.004	53	3	5	19	KED
| Se-1	78	-0.015	ug/L	0.037	244	11	9	9	KED
Y	89		ug/L			752471	670970	2	Standard
Kr	83		ug/L			79	70	17	Standard
> In-1	115		ug/L			19356	17594	5	KED
| Cd	111	0.005	ug/L	0.007	142	1	2	78	KED
| Cd	114	0.001	ug/L	0.002	101	3	4	24	KED
> In	115		ug/L			1103678	1015115	2	Standard
| Ag	107	-0.001	ug/L	0.001	95	92	71	19	Standard
| Ba	135	0.092	ug/L	0.009	9	10	421	11	Standard
| Ba	137	0.099	ug/L	0.002	1	24	812	3	Standard
> Tb	159		ug/L			1402493	1289424	1	Standard
| Pb	208	0.011	ug/L	0.001	5	468	905	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810285-38**

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 19:44:26

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			22497	28635	2	Standard
Cl	37	ug/L			5295021	5453479	2	Standard
> Sc	45	ug/L			1418735	1302750	1	Standard
| Cr	52	0.257	0.041	15	23249	27259	4	Standard
| Cr	53	0.121	0.008	6	2296	2441	2	Standard
> Ge-1	72	ug/L			66481	55317	1	KED
| Ni	60	0.133	0.012	9	15	133	9	KED
| Ni	62	0.151	0.062	41	5	26	35	KED
| Cu	63	0.257	0.030	11	47	678	10	KED
| Cu	65	0.238	0.004	1	21	313	2	KED
| Zn	66	10.847	0.532	4	29	3756	3	KED
| Zn	67	9.600	0.170	1	4	570	3	KED
| As	75	0.026	0.009	32	3	8	21	KED
| Se-1	78	-0.068	0.033	47	11	7	10	KED
Y	89	ug/L			752471	688812	2	Standard
Kr	83	ug/L			79	64	17	Standard
> In-1	115	ug/L			19356	17949	2	KED
| Cd	111	0.010	0.013	131	1	3	90	KED
| Cd	114	0.003	0.005	149	3	5	56	KED
> In	115	ug/L			1103678	1031104	2	Standard
| Ag	107	0.000	0.001	1592	92	86	19	Standard
| Ba	135	0.279	0.032	11	10	1278	9	Standard
| Ba	137	0.277	0.006	2	24	2261	0	Standard
> Tb	159	ug/L			1402493	1299410	1	Standard
| Pb	208	0.061	0.001	2	468	3032	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 19:50:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	20428	0	Standard
Cl	37		ug/L			5295021	5437160	0	Standard
[> Sc	45		ug/L			1418735	1298854	2	Standard
| Cr	52	49.872	ug/L	1.124	2	23249	1163354	0	Standard
| Cr	53	51.106	ug/L	0.861	1	2296	141949	2	Standard
[> Ge-1	72		ug/L			66481	53412	1	KED
| Ni	60	53.709	ug/L	2.032	3	15	47209	3	KED
| Ni	62	52.791	ug/L	0.358	0	5	7381	0	KED
| Cu	63	52.920	ug/L	1.038	1	47	126948	1	KED
| Cu	65	54.014	ug/L	1.976	3	21	64911	2	KED
| Zn	66	53.580	ug/L	0.116	0	29	17833	1	KED
| Zn	67	52.464	ug/L	2.199	4	4	2994	3	KED
| As	75	51.813	ug/L	0.911	1	3	10901	0	KED
| Se-1	78	52.554	ug/L	0.882	1	11	1224	2	KED
Y	89		ug/L			752471	679042	2	Standard
Kr	83		ug/L			79	74	13	Standard
[> In-1	115		ug/L			19356	16706	3	KED
| Cd	111	49.693	ug/L	1.562	3	1	12237	0	KED
| Cd	114	50.766	ug/L	1.371	2	3	32058	0	KED
[> In	115		ug/L			1103678	1009855	0	Standard
| Ag	107	52.474	ug/L	1.449	2	92	873347	2	Standard
| Ba	135	49.960	ug/L	1.678	3	10	223000	2	Standard
| Ba	137	49.520	ug/L	1.389	2	24	391657	2	Standard
[> Tb	159		ug/L			1402493	1271820	2	Standard
| Pb	208	52.327	ug/L	1.367	2	468	2177150	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 19:57:25

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	19945	1	Standard
Cl	37		ug/L			5295021	5324210	1	Standard
[> Sc	45		ug/L			1418735	1324325	4	Standard
| Cr	52	-0.058	ug/L	0.013	22	23249	20347	2	Standard
| Cr	53	-0.285	ug/L	0.009	3	2296	1349	5	Standard
[> Ge-1	72		ug/L			66481	53980	1	KED
| Ni	60	-0.008	ug/L	0.002	25	15	5	33	KED
| Ni	62	-0.001	ug/L	0.016	1288	5	4	49	KED
| Cu	63	0.000	ug/L	0.002	867	47	39	15	KED
| Cu	65	-0.003	ug/L	0.003	108	21	13	28	KED
| Zn	66	0.066	ug/L	0.018	27	29	46	11	KED
| Zn	67	0.069	ug/L	0.099	143	4	7	75	KED
| As	75	0.010	ug/L	0.002	19	3	5	9	KED
| Se-1	78	0.028	ug/L	0.035	121	11	9	7	KED
Y	89		ug/L			752471	699213	3	Standard
Kr	83		ug/L			79	64	16	Standard
[> In-1	115		ug/L			19356	15847	1	KED
| Cd	111	0.004	ug/L	0.000	2	1	1		KED
| Cd	114	-0.001	ug/L	0.004	328	3	2	90	KED
[> In	115		ug/L			1103678	1029619	3	Standard
| Ag	107	0.000	ug/L	0.001	1864	92	86	11	Standard
| Ba	135	0.001	ug/L	0.002	156	10	15	54	Standard
| Ba	137	-0.000	ug/L	0.001	350	24	19	45	Standard
[> Tb	159		ug/L			1402493	1317926	0	Standard
| Pb	208	-0.002	ug/L	0.001	38	468	356	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810209-02**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Friday, September 21, 2018 20:02:00**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21638	4	Standard
Cl	37		ug/L			5295021	5277343	2	Standard
[> Sc	45		ug/L			1418735	1356667	1	Standard
| Cr	52	-0.043	ug/L	0.033	76	23249	21188	3	Standard
| Cr	53	-0.260	ug/L	0.005	2	2296	1452	2	Standard
[> Ge-1	72		ug/L			66481	54076	3	KED
| Ni	60	67.312	ug/L	2.695	4	15	59850	0	KED
| Ni	62	66.040	ug/L	2.014	3	5	9342	2	KED
| Cu	63	0.117	ug/L	0.004	3	47	323	1	KED
| Cu	65	0.131	ug/L	0.010	7	21	176	8	KED
| Zn	66	1.455	ug/L	0.020	1	29	513	3	KED
| Zn	67	1.167	ug/L	0.089	7	4	71	11	KED
| As	75	0.011	ug/L	0.014	128	3	5	53	KED
| Se-1	78	-0.067	ug/L	0.096	143	11	7	28	KED
Y	89		ug/L			752471	693751	3	Standard
Kr	83		ug/L			79	64	22	Standard
[> In-1	115		ug/L			19356	16427	2	KED
| Cd	111	0.011	ug/L	0.007	59	1	3	43	KED
| Cd	114	0.002	ug/L	0.004	239	3	4	65	KED
[> In	115		ug/L			1103678	1013290	1	Standard
| Ag	107	-0.001	ug/L	0.001	109	92	74	14	Standard
| Ba	135	0.169	ug/L	0.010	5	10	766	5	Standard
| Ba	137	0.163	ug/L	0.002	1	24	1312	1	Standard
[> Tb	159		ug/L			1402493	1275013	1	Standard
| Pb	208	0.003	ug/L	0.001	32	468	553	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810209-09**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Friday, September 21, 2018 20:06:35**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21813	1	Standard
Cl	37		ug/L			5295021	5185647	1	Standard
[> Sc	45		ug/L			1418735	1334326	1	Standard
| Cr	52	-0.038	ug/L	0.003	9	23249	20970	1	Standard
| Cr	53	-0.276	ug/L	0.004	1	2296	1385	1	Standard
[> Ge-1	72		ug/L			66481	53809	3	KED
| Ni	60	70.838	ug/L	2.579	3	15	62690	0	KED
| Ni	62	69.143	ug/L	1.712	2	5	9734	0	KED
| Cu	63	0.090	ug/L	0.018	19	47	254	14	KED
| Cu	65	0.078	ug/L	0.006	7	21	111	9	KED
| Zn	66	1.497	ug/L	0.047	3	29	525	1	KED
| Zn	67	1.188	ug/L	0.171	14	4	71	12	KED
| As	75	0.011	ug/L	0.005	49	3	5	18	KED
| Se-1	78	-0.114	ug/L	0.070	61	11	6	26	KED
| Y	89		ug/L			752471	703899	1	Standard
| Kr	83		ug/L			79	64	10	Standard
[> In-1	115		ug/L			19356	15932	1	KED
| Cd	111	0.006	ug/L	0.006	97	1	2	57	KED
| Cd	114	-0.002	ug/L	0.005	256	3	1	180	KED
[> In	115		ug/L			1103678	1036651	1	Standard
| Ag	107	-0.001	ug/L	0.000	28	92	64	10	Standard
| Ba	135	0.088	ug/L	0.003	3	10	414	4	Standard
| Ba	137	0.085	ug/L	0.006	6	24	713	7	Standard
[> Tb	159		ug/L			1402493	1293726	2	Standard
| Pb	208	0.001	ug/L	0.001	78	468	483	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0470-DUP2**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Friday, September 21, 2018 20:11:10**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			22497	21961	1	Standard
Cl	37	ug/L			5295021	5236847	3	Standard
> Sc	45	ug/L			1418735	1364573	2	Standard
| Cr	52	-0.043	0.051	118	23249	21314	2	Standard
| Cr	53	-0.304	0.023	7	2296	1334	2	Standard
> Ge-1	72	ug/L			66481	52965	1	KED
| Ni	60	31.686	0.548	1	15	27622	0	KED
| Ni	62	32.081	0.969	3	5	4449	2	KED
| Cu	63	0.029	0.003	11	47	107	5	KED
| Cu	65	0.029	0.006	22	21	51	13	KED
| Zn	66	1.124	0.069	6	29	394	5	KED
| Zn	67	0.903	0.185	20	4	54	19	KED
| As	75	0.010	0.002	21	3	5	10	KED
| Se-1	78	-0.005	0.022	420	11	8	6	KED
Y	89	ug/L			752471	703952	1	Standard
Kr	83	ug/L			79	64	16	Standard
> In-1	115	ug/L			19356	15787	1	KED
| Cd	111	0.008	0.007	89	1	2	57	KED
| Cd	114	0.006	0.005	75	3	6	42	KED
> In	115	ug/L			1103678	1030753	3	Standard
| Ag	107	-0.000	0.001	224	92	79	16	Standard
| Ba	135	0.078	0.005	6	10	366	7	Standard
| Ba	137	0.077	0.005	6	24	645	8	Standard
> Tb	159	ug/L			1402493	1297952	1	Standard
| Pb	208	0.002	0.000	14	468	510	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 1810209-07

Sample Dil Factor: 100

Comments:

Sample Date/Time: Friday, September 21, 2018 20:15:45

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21919	1	Standard
Cl	37		ug/L			5295021	5357104	2	Standard
Sc	45		ug/L			1418735	1396055	1	Standard
Cr	52	-0.049	ug/L	0.008	16	23249	21675	0	Standard
Cr	53	-0.317	ug/L	0.013	4	2296	1327	1	Standard
Ge-1	72		ug/L			66481	52911	0	KED
Ni	60	31.238	ug/L	0.356	1	15	27211	1	KED
Ni	62	32.305	ug/L	0.639	1	5	4476	2	KED
Cu	63	0.036	ug/L	0.004	9	47	122	7	KED
Cu	65	0.039	ug/L	0.007	18	21	63	13	KED
Zn	66	1.980	ug/L	0.042	2	29	675	1	KED
Zn	67	1.657	ug/L	0.142	8	4	97	8	KED
As	75	0.013	ug/L	0.000	1	3	5	0	KED
Se-1	78	-0.054	ug/L	0.092	170	11	7	28	KED
Y	89		ug/L			752471	702469	2	Standard
Kr	83		ug/L			79	61	25	Standard
In-1	115		ug/L			19356	16116	1	KED
Cd	111	0.008	ug/L	0.007	93	1	2	57	KED
Cd	114	-0.002	ug/L	0.005	234	3	1	183	KED
In	115		ug/L			1103678	1049644	1	Standard
Ag	107	-0.001	ug/L	0.000	11	92	68	2	Standard
Ba	135	0.080	ug/L	0.006	6	10	380	7	Standard
Ba	137	0.080	ug/L	0.001	0	24	681	2	Standard
Tb	159		ug/L			1402493	1301473	2	Standard
Pb	208	0.007	ug/L	0.001	10	468	745	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0470-MS2**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Friday, September 21, 2018 20:20:19**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			22497	21300	5	Standard
Cl	37	ug/L			5295021	5268126	0	Standard
> Sc	45	ug/L			1418735	1407224	2	Standard
| Cr	52	0.176	0.068	38	23249	27397	3	Standard
| Cr	53	-0.112	0.010	8	2296	1946	1	Standard
> Ge-1	72	ug/L			66481	52656	0	KED
| Ni	60	33.096	0.631	1	15	28688	1	KED
| Ni	62	33.920	1.592	4	5	4678	5	KED
| Cu	63	0.314	0.005	1	47	779	1	KED
| Cu	65	0.304	0.006	1	21	377	2	KED
| Zn	66	2.092	0.053	2	29	709	2	KED
| Zn	67	1.924	0.309	16	4	111	15	KED
| As	75	0.284	0.039	13	3	61	12	KED
| Se-1	78	0.693	0.119	17	11	24	11	KED
Y	89	ug/L			752471	712363	1	Standard
Kr	83	ug/L			79	65	31	Standard
> In-1	115	ug/L			19356	15884	2	KED
| Cd	111	0.286	0.057	19	1	68	21	KED
| Cd	114	0.286	0.026	9	3	174	6	KED
> In	115	ug/L			1103678	1025296	0	Standard
| Ag	107	0.283	0.012	4	92	4863	4	Standard
| Ba	135	0.347	0.006	1	10	1581	1	Standard
| Ba	137	0.354	0.014	3	24	2863	4	Standard
> Tb	159	ug/L			1402493	1320135	1	Standard
| Pb	208	0.301	0.008	2	468	13423	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0401-DUP2**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Friday, September 21, 2018 20:24:54**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21796	4	Standard
Cl	37		ug/L			5295021	5312865	1	Standard
[> Sc	45		ug/L			1418735	1386767	1	Standard
| Cr	52	-0.052	ug/L	0.005	10	23249	21448	2	Standard
| Cr	53	-0.349	ug/L	0.011	3	2296	1223	1	Standard
[> Ge-1	72		ug/L			66481	52963	0	KED
| Ni	60	35.953	ug/L	0.831	2	15	31343	1	KED
| Ni	62	35.619	ug/L	1.356	3	5	4941	4	KED
| Cu	63	0.037	ug/L	0.000	1	47	125	0	KED
| Cu	65	0.036	ug/L	0.025	69	21	59	48	KED
| Zn	66	0.972	ug/L	0.074	7	29	344	6	KED
| Zn	67	1.128	ug/L	0.111	9	4	67	8	KED
| As	75	0.008	ug/L	0.007	98	3	4	33	KED
| Se-1	78	-0.040	ug/L	0.063	157	11	7	18	KED
| Y	89		ug/L			752471	727478	1	Standard
| Kr	83		ug/L			79	78	11	Standard
[> In-1	115		ug/L			19356	15675	3	KED
| Cd	111	0.008	ug/L	0.004	47	1	2	33	KED
| Cd	114	-0.001	ug/L	0.002	243	3	2	44	KED
[> In	115		ug/L			1103678	1022325	0	Standard
| Ag	107	-0.002	ug/L	0.001	39	92	57	18	Standard
| Ba	135	0.076	ug/L	0.003	4	10	353	4	Standard
| Ba	137	0.079	ug/L	0.008	10	24	652	9	Standard
[> Tb	159		ug/L			1402493	1281474	1	Standard
| Pb	208	0.002	ug/L	0.000	6	468	493	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **1810209-06RE4** TH 09-24-18

Sample Dil Factor: **100**

Comments:

Sample Date/Time: Friday, September 21, 2018 20:29:29

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	22056	2	Standard
Cl	37		ug/L			5295021	5322877	1	Standard
[> Sc	45		ug/L			1418735	1400568	1	Standard
| Cr	52	-0.082	ug/L	0.012	15	23249	20928	1	Standard
| Cr	53	-0.369	ug/L	0.015	3	2296	1179	3	Standard
[> Ge-1	72		ug/L			66481	51683	1	KED
| Ni	60	37.852	ug/L	0.578	1	15	32198	0	KED
| Ni	62	36.716	ug/L	2.053	5	5	4965	3	KED
| Cu	63	0.031	ug/L	0.009	27	47	109	19	KED
| Cu	65	0.039	ug/L	0.002	5	21	62	1	KED
| Zn	66	5.757	ug/L	0.220	3	29	1873	1	KED
| Zn	67	5.200	ug/L	0.449	8	4	290	7	KED
| As	75	0.018	ug/L	0.006	33	3	6	18	KED
| Se-1	78	-0.010	ug/L	0.020	199	11	8	3	KED
| Y	89		ug/L			752471	701636	3	Standard
| Kr	83		ug/L			79	74	22	Standard
[> In-1	115		ug/L			19356	15558	2	KED
| Cd	111	0.011	ug/L	0.003	25	1	3	15	KED
| Cd	114	-0.002	ug/L	0.000	4	3	1		KED
[> In	115		ug/L			1103678	1032437	3	Standard
| Ag	107	-0.001	ug/L	0.001	113	92	66	38	Standard
| Ba	135	0.084	ug/L	0.002	2	10	394	2	Standard
| Ba	137	0.078	ug/L	0.007	8	24	651	7	Standard
[> Tb	159		ug/L			1402493	1274654	2	Standard
| Pb	208	0.001	ug/L	0.000	12	468	486	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0401-MS2**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Friday, September 21, 2018 20:34:04**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21877	1	Standard
Cl	37		ug/L			5295021	5390819	0	Standard
> Sc	45		ug/L			1418735	1405574	2	Standard
| Cr	52	0.203	ug/L	0.034	16	23249	28043	0	Standard
| Cr	53	-0.142	ug/L	0.015	10	2296	1853	0	Standard
> Ge-1	72		ug/L			66481	52027	1	KED
| Ni	60	36.797	ug/L	0.354	0	15	31512	0	KED
| Ni	62	36.043	ug/L	0.793	2	5	4910	1	KED
| Cu	63	0.308	ug/L	0.016	5	47	756	5	KED
| Cu	65	0.311	ug/L	0.029	9	21	380	7	KED
| Zn	66	3.105	ug/L	0.066	2	29	1028	1	KED
| Zn	67	2.955	ug/L	0.136	4	4	167	4	KED
| As	75	0.295	ug/L	0.038	12	3	63	12	KED
| Se-1	78	1.058	ug/L	0.128	12	11	32	9	KED
| Y	89		ug/L			752471	710845	3	Standard
| Kr	83		ug/L			79	60	4	Standard
> In-1	115		ug/L			19356	15523	1	KED
| Cd	111	0.257	ug/L	0.018	6	1	60	8	KED
| Cd	114	0.293	ug/L	0.025	8	3	175	9	KED
> In	115		ug/L			1103678	1037518	2	Standard
| Ag	107	0.274	ug/L	0.007	2	92	4766	0	Standard
| Ba	135	0.335	ug/L	0.006	1	10	1546	0	Standard
| Ba	137	0.325	ug/L	0.010	2	24	2659	2	Standard
> Tb	159		ug/L			1402493	1301036	0	Standard
| Pb	208	0.307	ug/L	0.009	2	468	13501	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: **BGI0401-MSD2**

Sample Dil Factor: **100**

Comments:

Sample Date/Time: **Friday, September 21, 2018 20:38:39**

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21595	1	Standard
Cl	37		ug/L			5295021	5361514	0	Standard
> Sc	45		ug/L			1418735	1414663	3	Standard
| Cr	52	0.167	ug/L	0.034	20	23249	27325	1	Standard
| Cr	53	-0.142	ug/L	0.047	33	2296	1864	4	Standard
> Ge-1	72		ug/L			66481	51428	1	KED
| Ni	60	38.458	ug/L	0.718	1	15	32551	0	KED
| Ni	62	37.629	ug/L	1.549	4	5	5065	2	KED
| Cu	63	0.312	ug/L	0.021	6	47	756	4	KED
| Cu	65	0.355	ug/L	0.020	5	21	427	4	KED
| Zn	66	2.135	ug/L	0.227	10	29	706	10	KED
| Zn	67	1.824	ug/L	0.161	8	4	103	7	KED
| As	75	0.301	ug/L	0.022	7	3	63	5	KED
| Se-1	78	0.943	ug/L	0.294	31	11	29	20	KED
Y	89		ug/L			752471	700942	2	Standard
Kr	83		ug/L			79	71	21	Standard
> In-1	115		ug/L			19356	15366	0	KED
| Cd	111	0.304	ug/L	0.026	8	1	69	8	KED
| Cd	114	0.296	ug/L	0.009	2	3	175	2	KED
> In	115		ug/L			1103678	1032452	2	Standard
| Ag	107	0.278	ug/L	0.001	0	92	4812	2	Standard
| Ba	135	0.339	ug/L	0.015	4	10	1556	3	Standard
| Ba	137	0.323	ug/L	0.014	4	24	2635	2	Standard
> Tb	159		ug/L			1402493	1286525	0	Standard
| Pb	208	0.309	ug/L	0.004	1	468	13451	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 20:44:18

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	20945	3	Standard
Cl	37		ug/L			5295021	5648754	1	Standard
[> Sc	45		ug/L			1418735	1408932	0	Standard
| Cr	52	50.299	ug/L	0.903	1	23249	1272903	0	Standard
| Cr	53	47.827	ug/L	0.204	0	2296	144263	1	Standard
[> Ge-1	72		ug/L			66481	51012	0	KED
| Ni	60	53.962	ug/L	1.515	2	15	45308	2	KED
| Ni	62	53.896	ug/L	0.875	1	5	7198	1	KED
| Cu	63	53.904	ug/L	1.280	2	47	123518	2	KED
| Cu	65	53.125	ug/L	0.514	0	21	60992	0	KED
| Zn	66	53.845	ug/L	0.580	1	29	17116	1	KED
| Zn	67	52.098	ug/L	0.658	1	4	2840	1	KED
| As	75	50.226	ug/L	0.854	1	3	10094	1	KED
| Se-1	78	50.862	ug/L	0.281	0	11	1132	0	KED
Y	89		ug/L			752471	726296	3	Standard
Kr	83		ug/L			79	80	13	Standard
[> In-1	115		ug/L			19356	14782	1	KED
| Cd	111	53.299	ug/L	0.543	1	1	11622	2	KED
| Cd	114	53.975	ug/L	1.427	2	3	30169	1	KED
[> In	115		ug/L			1103678	1002327	0	Standard
| Ag	107	52.857	ug/L	1.054	1	92	873302	2	Standard
| Ba	135	49.850	ug/L	1.208	2	10	220881	2	Standard
| Ba	137	49.063	ug/L	0.386	0	24	385188	1	Standard
[> Tb	159		ug/L			1402493	1307625	2	Standard
| Pb	208	56.071	ug/L	1.216	2	468	2398344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 20:51:38

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	20500	1	Standard
Cl	37		ug/L			5295021	5506025	2	Standard
[> Sc	45		ug/L			1418735	1411109	1	Standard
| Cr	52	-0.072	ug/L	0.033	45	23249	21311	2	Standard
| Cr	53	-0.467	ug/L	0.015	3	2296	896	3	Standard
[> Ge-1	72		ug/L			66481	50531	2	KED
| Ni	60	-0.004	ug/L	0.008	171	15	8	74	KED
| Ni	62	-0.019	ug/L	0.014	76	5	1	100	KED
| Cu	63	-0.004	ug/L	0.003	82	47	27	23	KED
| Cu	65	-0.000	ug/L	0.010	2062	21	15	72	KED
| Zn	66	0.067	ug/L	0.015	21	29	43	8	KED
| Zn	67	0.090	ug/L	0.051	56	4	8	35	KED
| As	75	0.015	ug/L	0.007	47	3	5	23	KED
| Se-1	78	-0.036	ug/L	0.087	239	11	7	22	KED
Y	89		ug/L			752471	734890	2	Standard
Kr	83		ug/L			79	72	34	Standard
[> In-1	115		ug/L			19356	15249	2	KED
| Cd	111	0.014	ug/L	0.014	105	1	4	81	KED
| Cd	114	0.001	ug/L	0.003	241	3	3	50	KED
[> In	115		ug/L			1103678	1019018	0	Standard
| Ag	107	0.000	ug/L	0.000	202	92	86	4	Standard
| Ba	135	0.001	ug/L	0.001	150	10	13	37	Standard
| Ba	137	0.001	ug/L	0.001	195	24	27	35	Standard
[> Tb	159		ug/L			1402493	1311060	1	Standard
| Pb	208	-0.001	ug/L	0.001	48	468	374	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0209-06

DEL

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 20:56:13

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	39218	0	Standard
Cl	37		ug/L			5295021	6224900	1	Standard
[> Sc	45		ug/L			1418735	1714190	1	Standard
| Cr	52	-0.026	ug/L	0.023	91	23249	27313	1	Standard
| Cr	53	0.035	ug/L	0.017	49	2296	2900	1	Standard
[> Ge-1	72		ug/L			66481	48127	3	KED
| Ni	60	3583.863	ug/L	133.047	3	15	2835624	0	KED
| Ni	62	3651.305	ug/L	149.742	4	5	459299	0	KED
| Cu	63	2.853	ug/L	0.207	7	47	6188	3	KED
| Cu	65	2.645	ug/L	0.195	7	21	2874	3	KED
| Zn	66	40.056	ug/L	1.282	3	29	12008	1	KED
| Zn	67	38.300	ug/L	2.695	7	4	1969	6	KED
| As	75	0.671	ug/L	0.084	12	3	129	9	KED
| Se-1	78	0.323	ug/L	0.067	20	11	14	9	KED
Y	89		ug/L			752471	891119	1	Standard
Kr	83		ug/L			79	95	17	Standard
[> In-1	115		ug/L			19356	14168	2	KED
| Cd	111	0.122	ug/L	0.042	34	1	26	30	KED
| Cd	114	0.125	ug/L	0.024	19	3	69	16	KED
[> In	115		ug/L			1103678	1013685	3	Standard
| Ag	107	0.000	ug/L	0.000	176	92	86	8	Standard
| Ba	135	7.416	ug/L	0.312	4	10	33209	1	Standard
| Ba	137	7.465	ug/L	0.272	3	24	59234	0	Standard
[> Tb	159		ug/L			1402493	1291059	0	Standard
| Pb	208	0.012	ug/L	0.001	6	468	934	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0168-01

Sample Dil Factor: DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 21:00:48

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	50160	0	Standard
Cl	37		ug/L			5295021	13923764	0	Standard
[> Sc	45		ug/L			1418735	1491465	2	Standard
| Cr	52	87.438	ug/L	1.368	1	23249	2324117	1	Standard
| Cr	53	90.188	ug/L	2.207	2	2296	285745	1	Standard
[> Ge-1	72		ug/L			66481	46020	1	KED
| Ni	60	27.378	ug/L	0.335	1	15	20742	0	KED
| Ni	62	26.857	ug/L	0.911	3	5	3237	2	KED
| Cu	63	27.237	ug/L	0.199	0	47	56318	0	KED
| Cu	65	27.216	ug/L	0.314	1	21	28194	0	KED
| Zn	66	31.193	ug/L	0.689	2	29	8955	3	KED
| Zn	67	27.221	ug/L	2.399	8	4	1339	7	KED
| As	75	0.591	ug/L	0.046	7	3	109	6	KED
| Se-1	78	0.044	ug/L	0.059	135	11	8	14	KED
Y	89		ug/L			752471	775049	1	Standard
Kr	83		ug/L			79	109	11	Standard
[> In-1	115		ug/L			19356	13957	1	KED
| Cd	111	1.424	ug/L	0.053	3	1	293	2	KED
| Cd	114	1.334	ug/L	0.037	2	3	706	2	KED
[> In	115		ug/L			1103678	971349	1	Standard
| Ag	107	0.022	ug/L	0.002	7	92	428	7	Standard
| Ba	135	2.855	ug/L	0.067	2	10	12268	2	Standard
| Ba	137	2.853	ug/L	0.082	2	24	21719	1	Standard
[> Tb	159		ug/L			1402493	1286324	1	Standard
| Pb	208	1.349	ug/L	0.014	1	468	57187	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0175-01

Sample Dil Factor: DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 21:05:23

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	96579	3	Standard
Cl	37		ug/L			5295021	7442595	3	Standard
[> Sc	45		ug/L			1418735	1485258	1	Standard
| Cr	52	0.717	ug/L	0.092	12	23249	43102	4	Standard
| Cr	53	1.907	ug/L	0.084	4	2296	8368	1	Standard
[> Ge-1	72		ug/L			66481	46071	1	KED
| Ni	60	6.782	ug/L	0.258	3	15	5150	2	KED
| Ni	62	6.338	ug/L	0.523	8	5	768	9	KED
| Cu	63	4.619	ug/L	0.073	1	47	9587	1	KED
| Cu	65	4.649	ug/L	0.068	1	21	4834	2	KED
| Zn	66	39.711	ug/L	1.850	4	29	11401	3	KED
| Zn	67	41.153	ug/L	1.146	2	4	2026	1	KED
| As	75	1.161	ug/L	0.073	6	3	213	6	KED
| Se-1	78	0.403	ug/L	0.161	40	11	15	19	KED
Y	89		ug/L			752471	740856	1	Standard
Kr	83		ug/L			79	71	21	Standard
[> In-1	115		ug/L			19356	14066	0	KED
| Cd	111	0.094	ug/L	0.023	24	1	20	23	KED
| Cd	114	0.077	ug/L	0.026	33	3	43	31	KED
[> In	115		ug/L			1103678	956825	1	Standard
| Ag	107	0.005	ug/L	0.001	30	92	154	15	Standard
| Ba	135	90.351	ug/L	1.456	1	10	382086	0	Standard
| Ba	137	88.317	ug/L	2.868	3	24	661595	1	Standard
[> Tb	159		ug/L			1402493	1291259	2	Standard
| Pb	208	4.678	ug/L	0.132	2	468	197966	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0169-01

Sample Dil Factor: 5

DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 21:09:58

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	26702	1	Standard
Cl	37		ug/L			5295021	6182571	1	Standard
[> Sc	45		ug/L			1418735	1455609	0	Standard
| Cr	52	1.711	ug/L	0.059	3	23249	67771	1	Standard
| Cr	53	1.842	ug/L	0.058	3	2296	8006	3	Standard
[> Ge-1	72		ug/L			66481	47762	1	KED
| Ni	60	2.831	ug/L	0.111	3	15	2235	2	KED
| Ni	62	2.691	ug/L	0.110	4	5	340	3	KED
| Cu	63	10.818	ug/L	0.127	1	47	23237	1	KED
| Cu	65	10.526	ug/L	0.273	2	21	11326	1	KED
| Zn	66	12.820	ug/L	0.314	2	29	3831	2	KED
| Zn	67	12.140	ug/L	0.843	6	4	622	6	KED
| As	75	0.216	ug/L	0.036	16	3	43	14	KED
| Se-1	78	0.097	ug/L	0.127	131	11	10	26	KED
| Y	89		ug/L			752471	729311	2	Standard
| Kr	83		ug/L			79	49	10	Standard
[> In-1	115		ug/L			19356	14064	0	KED
| Cd	111	0.012	ug/L	0.003	21	1	3	15	KED
| Cd	114	0.013	ug/L	0.017	123	3	9	90	KED
[> In	115		ug/L			1103678	1008465	1	Standard
| Ag	107	0.007	ug/L	0.001	14	92	197	9	Standard
| Ba	135	9.065	ug/L	0.177	1	10	40415	1	Standard
| Ba	137	9.031	ug/L	0.165	1	24	71341	0	Standard
[> Tb	159		ug/L			1402493	1310712	0	Standard
| Pb	208	0.470	ug/L	0.010	2	468	20571	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0153-11

Sample Dil Factor: 50 DEL

Comments:

Sample Date/Time: Friday, September 21, 2018 21:14:32

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	37472	0	Standard
Cl	37		ug/L			5295021	5732950	1	Standard
> Sc	45		ug/L			1418735	1495849	0	Standard
| Cr	52	8.134	ug/L	0.189	2	23249	239098	1	Standard
| Cr	53	7.334	ug/L	0.162	2	2296	25537	2	Standard
> Ge-1	72		ug/L			66481	49326	0	KED
| Ni	60	4.101	ug/L	0.087	2	15	3340	1	KED
| Ni	62	4.316	ug/L	0.102	2	5	561	2	KED
| Cu	63	11.509	ug/L	0.165	1	47	25527	1	KED
| Cu	65	11.505	ug/L	0.100	0	21	12784	1	KED
| Zn	66	141.924	ug/L	4.416	3	29	43588	3	KED
| Zn	67	130.935	ug/L	4.777	3	4	6898	3	KED
| As	75	1.467	ug/L	0.055	3	3	287	4	KED
| Se-1	78	0.528	ug/L	0.025	4	11	19	2	KED
Y	89		ug/L			752471	798283	1	Standard
Kr	83		ug/L			79	93	14	Standard
> In-1	115		ug/L			19356	14775	1	KED
| Cd	111	0.306	ug/L	0.018	5	1	67	7	KED
| Cd	114	0.285	ug/L	0.019	6	3	162	7	KED
> In	115		ug/L			1103678	1033061	0	Standard
| Ag	107	0.019	ug/L	0.002	8	92	417	6	Standard
| Ba	135	41.767	ug/L	0.984	2	10	190734	2	Standard
| Ba	137	41.935	ug/L	1.026	2	24	339291	2	Standard
> Tb	159		ug/L			1402493	1308348	1	Standard
| Pb	208	15.314	ug/L	0.337	2	468	656020	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 18I0153-17

Sample Dil Factor: 50

Comments:

Sample Date/Time: Friday, September 21, 2018 21:19:07

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	34479	2	Standard
Cl	37		ug/L			5295021	5842311	2	Standard
[> Sc	45		ug/L			1418735	1511008	1	Standard
| Cr	52	5.903	ug/L	0.187	3	23249	182051	2	Standard
| Cr	53	5.226	ug/L	0.057	1	2296	19083	2	Standard
[> Ge-1	72		ug/L			66481	49463	3	KED
| Ni	60	3.274	ug/L	0.032	0	15	2677	4	KED
| Ni	62	4.716	ug/L	0.072	1	5	614	4	KED
| Cu	63	390.389	ug/L	15.672	4	47	866411	1	KED
| Cu	65	390.925	ug/L	21.154	5	21	434593	2	KED
| Zn	66	149.916	ug/L	4.149	2	29	46144	2	KED
| Zn	67	144.388	ug/L	4.582	3	4	7622	0	KED
| As	75	1.490	ug/L	0.122	8	3	292	6	KED
| Se-1	78	0.471	ug/L	0.185	39	11	18	17	KED
Y	89		ug/L			752471	788885	2	Standard
Kr	83		ug/L			79	65	11	Standard
[> In-1	115		ug/L			19356	14566	2	KED
| Cd	111	0.224	ug/L	0.012	5	1	49	7	KED
| Cd	114	0.240	ug/L	0.024	9	3	134	7	KED
[> In	115		ug/L			1103678	1039835	2	Standard
| Ag	107	0.034	ug/L	0.002	7	92	670	4	Standard
| Ba	135	23.409	ug/L	0.959	4	10	107560	2	Standard
| Ba	137	22.989	ug/L	0.281	1	24	187220	1	Standard
[> Tb	159		ug/L			1402493	1305846	2	Standard
| Pb	208	87.418	ug/L	3.467	3	468	3732859	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 21:24:47

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21462	1	Standard
Cl	37		ug/L			5295021	5956479	1	Standard
[> Sc	45		ug/L			1418735	1480809	1	Standard
| Cr	52	48.694	ug/L	0.844	1	23249	1295865	0	Standard
| Cr	53	47.364	ug/L	1.524	3	2296	150147	2	Standard
[> Ge-1	72		ug/L			66481	48530	0	KED
| Ni	60	54.702	ug/L	0.074	0	15	43695	0	KED
| Ni	62	54.063	ug/L	1.736	3	5	6867	2	KED
| Cu	63	54.548	ug/L	0.694	1	47	118920	2	KED
| Cu	65	55.467	ug/L	0.596	1	21	60578	0	KED
| Zn	66	53.826	ug/L	1.419	2	29	16277	2	KED
| Zn	67	52.096	ug/L	1.043	2	4	2702	1	KED
| As	75	50.806	ug/L	0.219	0	3	9713	0	KED
| Se-1	78	50.098	ug/L	0.139	0	11	1060	1	KED
Y	89		ug/L			752471	757624	0	Standard
Kr	83		ug/L			79	76	0	Standard
[> In-1	115		ug/L			19356	14499	2	KED
| Cd	111	52.608	ug/L	0.955	1	1	11248	1	KED
| Cd	114	52.596	ug/L	2.433	4	3	28821	2	KED
[> In	115		ug/L			1103678	1025469	2	Standard
| Ag	107	53.329	ug/L	4.070	7	92	900031	4	Standard
| Ba	135	47.904	ug/L	1.469	3	10	217048	1	Standard
| Ba	137	47.299	ug/L	0.862	1	24	379768	1	Standard
[> Tb	159		ug/L			1402493	1319943	2	Standard
| Pb	208	58.509	ug/L	0.629	1	468	2526834	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 21:32:06

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13	ug/L			22497	20765	4	Standard
Cl	37	ug/L			5295021	5779343	2	Standard
[> Sc	45	ug/L			1418735	1453089	1	Standard
| Cr	52	ug/L	0.031	32	23249	21398	2	Standard
| Cr	53	ug/L	0.001	0	2296	797	1	Standard
[> Ge-1	72	ug/L			66481	49228	0	KED
| Ni	60	ug/L	0.005	140	15	14	27	KED
| Ni	62	ug/L	0.031	1968	5	4	89	KED
| Cu	63	ug/L	0.006	103	47	47	26	KED
| Cu	65	ug/L	0.006	224	21	19	36	KED
| Zn	66	ug/L	0.017	29	29	39	12	KED
| Zn	67	ug/L	0.042	71	4	6	34	KED
| As	75	ug/L	0.008	74	3	4	31	KED
| Se-1	78	ug/L	0.041	20	11	12	6	KED
Y	89	ug/L			752471	755423	2	Standard
Kr	83	ug/L			79	48	22	Standard
[> In-1	115	ug/L			19356	14439	0	KED
| Cd	111	ug/L	0.005	343	1	1	86	KED
| Cd	114	ug/L	0.005	868	3	2	116	KED
[> In	115	ug/L			1103678	1038775	2	Standard
| Ag	107	ug/L	0.000	1115	92	86	1	Standard
| Ba	135	ug/L	0.002	112	10	17	44	Standard
| Ba	137	ug/L	0.001	310	24	25	33	Standard
[> Tb	159	ug/L			1402493	1308996	0	Standard
| Pb	208	ug/L	0.001	77	468	401	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 21:36:41

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	28119	2	Standard
Cl	37		ug/L			5295021	6118847	2	Standard
[> Sc	45		ug/L			1418735	1763933	2	Standard
| Cr	52	-0.029	ug/L	0.043	150	23249	27997	2	Standard
| Cr	53	-0.553	ug/L	0.013	2	2296	799	5	Standard
[> Ge-1	72		ug/L			66481	53076	1	KED
| Ni	60	0.052	ug/L	0.017	32	15	58	26	KED
| Ni	62	0.091	ug/L	0.037	40	5	17	29	KED
| Cu	63	0.026	ug/L	0.005	18	47	100	11	KED
| Cu	65	0.033	ug/L	0.004	10	21	57	6	KED
| Zn	66	0.230	ug/L	0.010	4	29	99	4	KED
| Zn	67	0.173	ug/L	0.037	21	4	13	14	KED
| As	75	-0.001	ug/L	0.002	275	3	2	16	KED
| Se-1	78	-0.109	ug/L	0.086	78	11	6	30	KED
Y	89		ug/L			752471	880064	3	Standard
Kr	83		ug/L			79	64	31	Standard
[> In-1	115		ug/L			19356	16392	0	KED
| Cd	111	0.002	ug/L	0.008	386	1	1	124	KED
| Cd	114	-0.004	ug/L	0.002	43	3	0	111	KED
[> In	115		ug/L			1103678	1158916	1	Standard
| Ag	107	-0.001	ug/L	0.000	41	92	80	7	Standard
| Ba	135	0.012	ug/L	0.002	16	10	71	12	Standard
| Ba	137	0.010	ug/L	0.001	8	24	118	5	Standard
[> Tb	159		ug/L			1402493	1458084	1	Standard
| Pb	208	0.007	ug/L	0.002	26	468	798	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 21:41:16

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	27138	1	Standard
Cl	37		ug/L			5295021	6004230	2	Standard
[> Sc	45		ug/L			1418735	1765660	2	Standard
| Cr	52	-0.062	ug/L	0.020	32	23249	27016	3	Standard
| Cr	53	-0.555	ug/L	0.007	1	2296	793	1	Standard
[> Ge-1	72		ug/L			66481	52096	1	KED
| Ni	60	0.022	ug/L	0.009	38	15	31	24	KED
| Ni	62	-0.014	ug/L	0.016	114	5	2	86	KED
| Cu	63	0.020	ug/L	0.003	15	47	84	9	KED
| Cu	65	0.015	ug/L	0.001	5	21	34	3	KED
| Zn	66	0.236	ug/L	0.045	18	29	99	13	KED
| Zn	67	0.246	ug/L	0.072	29	4	17	22	KED
| As	75	0.004	ug/L	0.008	206	3	3	45	KED
| Se-1	78	-0.083	ug/L	0.036	43	11	6	10	KED
Y	89		ug/L			752471	857181	1	Standard
Kr	83		ug/L			79	78	8	Standard
[> In-1	115		ug/L			19356	16146	2	KED
| Cd	111	-0.002	ug/L	0.005	276	1	0	173	KED
| Cd	114	-0.000	ug/L	0.002	407	3	2	34	KED
[> In	115		ug/L			1103678	1164939	1	Standard
| Ag	107	-0.001	ug/L	0.001	111	92	85	13	Standard
| Ba	135	0.011	ug/L	0.002	14	10	69	13	Standard
| Ba	137	0.008	ug/L	0.002	25	24	98	17	Standard
[> Tb	159		ug/L			1402493	1463772	1	Standard
| Pb	208	0.004	ug/L	0.001	12	468	692	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 21:45:51

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	28342	4	Standard
Cl	37		ug/L			5295021	5951171	0	Standard
[> Sc	45		ug/L			1418735	1767471	2	Standard
| Cr	52	-0.075	ug/L	0.050	66	23249	26595	3	Standard
| Cr	53	-0.568	ug/L	0.012	2	2296	745	7	Standard
[> Ge-1	72		ug/L			66481	51678	2	KED
| Ni	60	0.020	ug/L	0.010	50	15	29	27	KED
| Ni	62	0.024	ug/L	0.026	108	5	7	43	KED
| Cu	63	0.019	ug/L	0.003	14	47	81	9	KED
| Cu	65	0.022	ug/L	0.007	31	21	42	18	KED
| Zn	66	0.269	ug/L	0.028	10	29	109	8	KED
| Zn	67	0.214	ug/L	0.093	43	4	15	33	KED
| As	75	0.012	ug/L	0.005	45	3	5	22	KED
| Se-1	78	-0.045	ug/L	0.027	58	11	7	6	KED
Y	89		ug/L			752471	877651	2	Standard
Kr	83		ug/L			79	71	15	Standard
[> In-1	115		ug/L			19356	16324	2	KED
| Cd	111	0.009	ug/L	0.010	115	1	3	75	KED
| Cd	114	-0.002	ug/L	0.005	219	3	1	205	KED
[> In	115		ug/L			1103678	1160167	0	Standard
| Ag	107	-0.001	ug/L	0.000	74	92	84	10	Standard
| Ba	135	0.010	ug/L	0.001	6	10	62	5	Standard
| Ba	137	0.010	ug/L	0.002	16	24	113	12	Standard
[> Tb	159		ug/L			1402493	1465366	0	Standard
| Pb	208	0.005	ug/L	0.001	16	468	709	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 21:50:26

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	20672	1	Standard
Cl	37		ug/L			5295021	5472900	0	Standard
[> Sc	45		ug/L			1418735	1386724	0	Standard
| Cr	52	-0.119	ug/L	0.015	12	23249	19817	2	Standard
| Cr	53	-0.547	ug/L	0.010	1	2296	646	5	Standard
[> Ge-1	72		ug/L			66481	47890	0	KED
| Ni	60	-0.009	ug/L	0.006	69	15	4	107	KED
| Ni	62	-0.028	ug/L	0.009	31	5	0	173	KED
| Cu	63	-0.001	ug/L	0.003	437	47	33	18	KED
| Cu	65	-0.003	ug/L	0.005	162	21	12	48	KED
| Zn	66	-0.025	ug/L	0.010	38	29	13	20	KED
| Zn	67	-0.050	ug/L	0.022	43	4	0	173	KED
| As	75	0.001	ug/L	0.003	429	3	2	16	KED
| Se-1	78	-0.049	ug/L	0.055	110	11	6	17	KED
Y	89		ug/L			752471	697433	1	Standard
Kr	83		ug/L			79	70	16	Standard
[> In-1	115		ug/L			19356	14156	3	KED
| Cd	111	0.014	ug/L	0.013	89	1	3	66	KED
| Cd	114	0.002	ug/L	0.003	181	3	3	49	KED
[> In	115		ug/L			1103678	993691	2	Standard
| Ag	107	-0.001	ug/L	0.001	65	92	67	12	Standard
| Ba	135	-0.001	ug/L	0.001	151	10	6	75	Standard
| Ba	137	-0.001	ug/L	0.000	35	24	10	36	Standard
[> Tb	159		ug/L			1402493	1259446	3	Standard
| Pb	208	-0.006	ug/L	0.000	2	468	157	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 21:55:01

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	20797	2	Standard
Cl	37		ug/L			5295021	5468477	1	Standard
[> Sc	45		ug/L			1418735	1371356	1	Standard
| Cr	52	-0.088	ug/L	0.015	17	23249	20333	0	Standard
| Cr	53	-0.540	ug/L	0.006	1	2296	659	1	Standard
[> Ge-1	72		ug/L			66481	48070	0	KED
| Ni	60	-0.010	ug/L	0.001	13	15	3	34	KED
| Ni	62	-0.018	ug/L	0.015	85	5	1	100	KED
| Cu	63	-0.003	ug/L	0.003	110	47	27	25	KED
| Cu	65	-0.004	ug/L	0.008	208	21	11	76	KED
| Zn	66	-0.021	ug/L	0.011	52	29	15	21	KED
| Zn	67	0.036	ug/L	0.057	155	4	5	57	KED
| As	75	0.012	ug/L	0.018	143	3	5	65	KED
| Se-1	78	0.010	ug/L	0.092	876	11	8	23	KED
Y	89		ug/L			752471	704697	0	Standard
Kr	83		ug/L			79	66	9	Standard
[> In-1	115		ug/L			19356	13980	0	KED
| Cd	111	0.005	ug/L	0.009	193	1	1	100	KED
| Cd	114	-0.002	ug/L	0.000	5	3	1	2	KED
[> In	115		ug/L			1103678	981422	2	Standard
| Ag	107	-0.001	ug/L	0.000	38	92	71	7	Standard
| Ba	135	-0.000	ug/L	0.001	211	10	8	35	Standard
| Ba	137	-0.002	ug/L	0.000	9	24	8	13	Standard
[> Tb	159		ug/L			1402493	1245873	1	Standard
| Pb	208	-0.006	ug/L	0.000	3	468	152	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, September 21, 2018 21:59:36

Number of Replicates: 3

Method File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Method\200.8nominKED_UCT_CrMed2.mth

Tuning File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\MassCal\Default.tun

Optimization File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\Conditions\Default.dac

Calibration File: C:\Users\metals\Documents\PerkinElmer Syngistix\ICPMS_metals\System\092118.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			22497	21153	1	Standard
Cl	37		ug/L			5295021	5543277	1	Standard
[> Sc	45		ug/L			1418735	1399993	3	Standard
| Cr	52	-0.091	ug/L	0.035	38	23249	20673	1	Standard
| Cr	53	-0.554	ug/L	0.006	1	2296	631	1	Standard
[> Ge-1	72		ug/L			66481	47908	2	KED
| Ni	60	-0.010	ug/L	0.005	51	15	3	100	KED
| Ni	62	-0.017	ug/L	0.016	89	5	1	100	KED
| Cu	63	-0.008	ug/L	0.003	34	47	16	37	KED
| Cu	65	-0.002	ug/L	0.005	314	21	13	39	KED
| Zn	66	-0.034	ug/L	0.019	55	29	11	50	KED
| Zn	67	-0.013	ug/L	0.057	449	4	2	114	KED
| As	75	0.002	ug/L	0.004	161	3	3	22	KED
| Se-1	78	-0.058	ug/L	0.100	170	11	6	32	KED
Y	89		ug/L			752471	743733	4	Standard
Kr	83		ug/L			79	64	12	Standard
[> In-1	115		ug/L			19356	14071	0	KED
| Cd	111	-0.001	ug/L	0.003	193	1	0	86	KED
| Cd	114	0.007	ug/L	0.005	79	3	6	45	KED
[> In	115		ug/L			1103678	992039	2	Standard
| Ag	107	-0.001	ug/L	0.000	32	92	69	5	Standard
| Ba	135	-0.001	ug/L	0.001	43	10	3	91	Standard
| Ba	137	-0.001	ug/L	0.002	226	24	15	84	Standard
[> Tb	159		ug/L			1402493	1281887	0	Standard
| Pb	208	-0.006	ug/L	0.000	7	468	160	11	Standard



INITIAL CALIBRATION DATA

EPA 6020A UCT-KED

Laboratory: Analytical Resources, Inc.

SDG: 18I0285

Client: Anchor QEA, LLC

Project: Port Gamble - OMMP LTM

Calibration: BJ00029

Instrument: ICPMS2

Calibration Date: 10/10/2018 8:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Cadmium-111	0	0	0.1	210	10	187.9	20	185.25	50	180.88	100	177.72
Cadmium-114	0	0	0.1	490	10	500	20	488.5	50	469.62	100	472.31



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ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 10/10/18

Analyst: MB/MH

Sequence: SGJ4179

All corrections made by analyst unless otherwise noted. MB 10/10/18

Cal. b: B54429

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	G9294		
		-CAL2	G9180		
		-CAL3	G9144		
		-CAL4	G9145		
		-CAL5	G9293		
		-CAL6	G9146		
		-IBL1	-		
		-ICV1	G8233		
		-ICB1	G9294		Sb↑ - No Sb all run
		-CCV1	G9293		Li sl. noisy
		-CCB1	G9294		Sb↑
		-CRL1	G9180		↓
		-IFA1	G9085		Cr53↑
		-IFB1	G8974		↓
✓		-CCV2			Be↓
		-CCV2			Be↑
		-CCB2			Sb↑
		SEQ-HCV1	G8973		
		-HCV2	G9141		
		-IBL2	-		
		-IBL3	-		
✓		-CCV2	-		Be↓ - No Be all run
		-CCV2			Be↑
		↓ -CCB2			Sb↑



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ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 10/10/18

Analyst: MS/TW

Sequence:

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BGJΦ1Φ6-BLK2	REN		Fe ⁵⁷ only
		↓ -BS2	↓		↓
		BGJΦ313-BLK1			
		↓ -BS1			
		18JΦ172-Φ4			
		↓ -Φ6			
		↓ -Φ8			
		↓ -Φ2			
		BGJΦ313-DVP1			
		↓ -MS1	↓		
		SEQ-CCV3			
		↓ -CCB3			
		BGJΦ314-BLK2	REN		Fe, Cd, Mo
		↓ -BS2	↓		↓
		18JΦ172-1Φ			
		↓ -12			
		↓ -14			
		↓ -16			
		↓ -Φ1			
		18JΦ165-Φ1		2	Fe, Zn, Cd, Mo only
		BGJΦ314-DVP2			
		↓ -MS2	↓	↓	Cd sl. no. 3y ↓
		SEQ-CCV4			
		↓ -CCB4			



ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 10/10/18 Analyst: MB/TM Sequence:

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		18JΦ172-Φ3	REN		
		↓ -Φ5	↓	2	
		↓ -Φ7	↓		
		↓ -Φ9	↓		
		↓ -11	↓		
		↓ -13	↓		Ge noisy Fe only
		↓ -15	↓		
		18IΦ4Φ2-Φ3		5	
		18IΦ413-Φ3		2	
		18JΦ86-Φ1	↓		
		SEQ-CCV5			
		↓ -CCB5			
		↓ -CCV6			
		↓ -CCB6			
		18JΦ172-13RE1	REN	2	Cu+Zn only
		BGJΦ175-BLK2	SWN	20	Cd only
		↓ -BS2	↓	↓	↓
		18JΦ87-Φ1		50	
		↓ -Φ2		↓	Cd sl. noisy
		18JΦ39-Φ1		20	
		18IΦ4Φ3-Φ2			
		BGJΦ175-DUP2			
		↓ -MS2	↓	↓	↓
		↓ -MSD2	↓	↓	↓



ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 10/10/18 Analyst: MB/TLL Sequence:

All corrections made by analyst unless otherwise noted. MB 10/10/18

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV7			Sc, Tb noisy
		↓ -CCB7			
		↓ -CCV8			
		↓ -CCB8			
		BGJΦ2Φ7-BLK2	REN		Cd+Mo only
		↓ -BS2	↓		↓
		18JΦ126-Φ1	↓	2	
		18JΦ166-Φ1	↓		
		18IΦ4Φ3-Φ1	SWN	50	
		↓ -Φ4	↓	20	
		18I 18JΦ39-Φ2	↓	↓	
		18JΦΦ78-Φ1	REN		Cd+Mo only
		BGJΦ2Φ7-DUP2	↓		↓
		↓ -MS2	↓		↓
		SEQ-CCV9			
		↓ -CCB9			
		BGJΦ343-BLK1	REN		
		↓ -BS1	↓		
		18JΦ184-Φ1			
		18JΦ191-Φ1		2	Cr ↑ Cr NR
		18JΦ191-Φ1RET		10	Cr only
		18JΦ1Φ4-Φ2			
		↓ -Φ3			
		↓ -Φ1	↓		



ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 10/10/18 Analyst: MB/AT Sequence:

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BGJΦ343-DUP1	REN		
		↓ -MS1	↓		
		SEQ-CCVA			
		↓ -CCBA			
		BGJΦ258-BLK2	REN		Cd only
		↓ -BS2	↓		↓
		18JΦ88-Φ4			
		18JΦ17Φ-Φ1			Cd, Mn only
		18JΦ426-Φ1		5	As only
		↓ -Φ2		↓	↓
		↓ -Φ4		2	↓
		18JΦ134-Φ1			Mn 70% Mn 10% Cd only
		BGJΦ258-DUP2			↓ ↓ ↓
		↓ -MS2	↓		
		SEQ-CCVB			
		↓ -CCBB			Is noisy Mn ↑, noisy - Cd.
		BGJΦ277-BLK2	SWN	20	Cd only
		↓ -BS2	↓	↓	↓
		18JΦ285-Φ2			Cd only
		↓ -Φ3			↓
		↓ -Φ4			↓
		↓ -Φ5			↓
		↓ -Φ1			↓
		BGJΦ277-DUP2	↓	↓	Cd only



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ICP/MS SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 81DN1050201

Analysis Date: 10/10/18

Analyst: MB/TK

Sequence:

All corrections made by analyst unless otherwise noted. MB, 10/10/18

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BGJΦ277-MS2	SWN	20	cd only
		↓ -SRM2	↓	↓	↓
		SEQ-CCVC			Intr noisy, analytes ok
		↓ -CCBC			
		18JΦ285-Φ6	SWN	20	
		↓ -37	↓	↓	
		18JΦΦ59-11	BEN		Mn, Zn only
		BGJΦ154-DUP2			
		↓ -MS2			
		↓ -MSD2			Mn, Zn STR
		18JΦ419-Φ3		50	
		↓ -Φ5		↓	
		↓ -Φ6		100	
		↓ -Φ7	↓	50	
		SEQ-CCVD			
		↓ -CCBD			
		18JΦΦ33-Φ1	BEN		Zn only
		18JΦΦ46-Φ1			Cu, Zn only
		18JΦΦ51-Φ1			
	✓	↓ -Φ2		10	REZ x 2:1
		↓ -Φ3			Zn TUR Cu only
		18JΦΦ59-Φ7		10	Mn, Cd only
		18JΦΦ61-Φ6		5	En noisy Cu only
		18JΦ134-Φ1RE1	↓		Mn only