Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504021.D
Acq On : 5 May 2017 10:57 pm
Operator : CJM
Sample : 17D0859-01@100X Inst : GCMSSV6
Misc :
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 08 12:59:06 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Phenanthrene-D10	43.227	188	962900	500.000	ng/mL	0.00
81) Chrysene-D12	86.140	240	667739	500.000	ng/mL	0.00
177) Perylene-D12	101.503	264	614542	500.000	ng/mL	0.02
System Monitoring Compounds						
6) TCMX	31.961	244	118	0.488	ng/mL	0.00
Target Compounds						Qvalue
2] CL1-BZ#1	24.715	188	891	0.863	ng/mL	99
5] CL2-BZ#4/#10	30.986	222	2916	3.675	ng/mL#	74
7] CL2-BZ#9	34.365	222	273	0.240	ng/mL#	81
9] CL2-BZ#6	35.423	222	621	0.537	ng/mL	98
11] CL2-BZ#8	36.639	222	3047	2.516	ng/mL	99
12] CL3-BZ#19	38.195	256	614	1.312	ng/mL	99
15] CL3-BZ#18	41.082	256	5843	11.229	ng/mL	98
17] CL3-BZ#17	41.464	256	1429	2.439	ng/mL	95
19] CL3-BZ#27	42.204	256	274	0.322	ng/mL	98
22] CL3-BZ#16	43.365	256	1438	3.190	ng/mL#	15
23] CL3-BZ#32	43.815	256	1498	1.636	ng/mL	99
30] CL3-BZ#26	46.602	256	395	0.438	ng/mL	97
31] CL3-BZ#25	46.968	256	112	0.139	ng/mL#	62
32] CL4-BZ#53	47.930	292	667	1.333	ng/mL	97
33] CL3-BZ#31	48.136	256	3151	3.360	ng/mL	99
34] CL3-BZ#28	48.495	256	1956	2.181	ng/mL	94
35] CL3-BZ#33/#21/#20	48.617	256	1273	1.474	ng/mL	96
36] CL4-BZ#51	48.716	292	180	0.338	ng/mL#	72
37] CL4-BZ#45	49.770	292	578	1.213	ng/mL	99
38] CL3-BZ#22	50.266	256	817	1.009	ng/mL	98
39] CL4-BZ#46	50.503	292	229	0.522	ng/mL	99
44] CL4-BZ#52	51.732	292	2426	4.302	ng/mL	99
45] CL4-BZ#48	51.953	292	524	1.037	ng/mL	99
46] CL4-BZ#49	52.312	292	1263	2.143	ng/mL	99
48] CL4-BZ#47/#65/#62	52.846	292	362	0.561	ng/mL	93
52] CL4-BZ#44	54.114	292	1621	3.817	ng/mL	97
53] CL4-BZ#59	54.564	292	153	0.213	ng/mL#	67
54] CL4-BZ#42	54.679	292	391	0.933	ng/mL	98
55] CL4-BZ#71	55.175	292	643	0.912	ng/mL	97
57] CL4-BZ#41	55.503	292	216m	0.472	ng/mL	
61] CL4-BZ#64	56.442	292	983	1.457	ng/mL	99
71] CL5-BZ#93	59.068	326	105	0.273	ng/mL#	35
74] CL5-BZ#88/#95	59.496	326	263	0.573	ng/mL	97
76] CL4-BZ#74	59.870	292	475	0.659	ng/mL	98
78] CL4-BZ#70	60.229	292	1161	1.394	ng/mL	91
80] CL4-BZ#66	60.748	292	697	0.909	ng/mL	100
85] CL4-BZ#56	62.420	292	407	0.600	ng/mL	99
86] CL5-BZ#90/#101	62.611	326	206	0.459	ng/mL	97
88] CL4-BZ#60	63.237	292	204	0.240	ng/mL	93
89] CL5-BZ#99	63.267	326	102	0.209	ng/mL#	16
105] CL5-BZ#120/#110	67.481	326	239	0.401	ng/mL#	59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504021.D
Acq On : 5 May 2017 10:57 pm
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Misc :
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 08 12:59:06 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

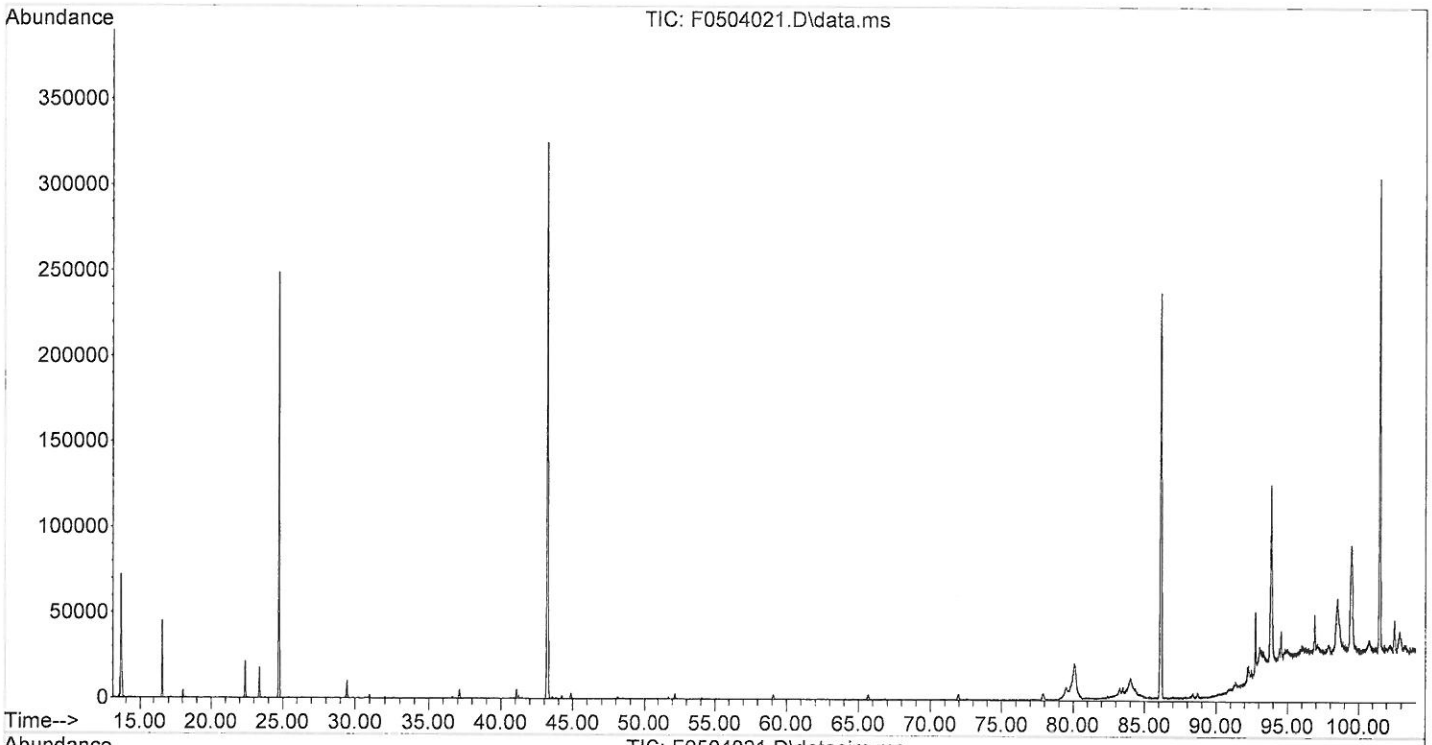
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
185] CL10-BZ#209	96.831	498	115	0.563 ng/mL#	10

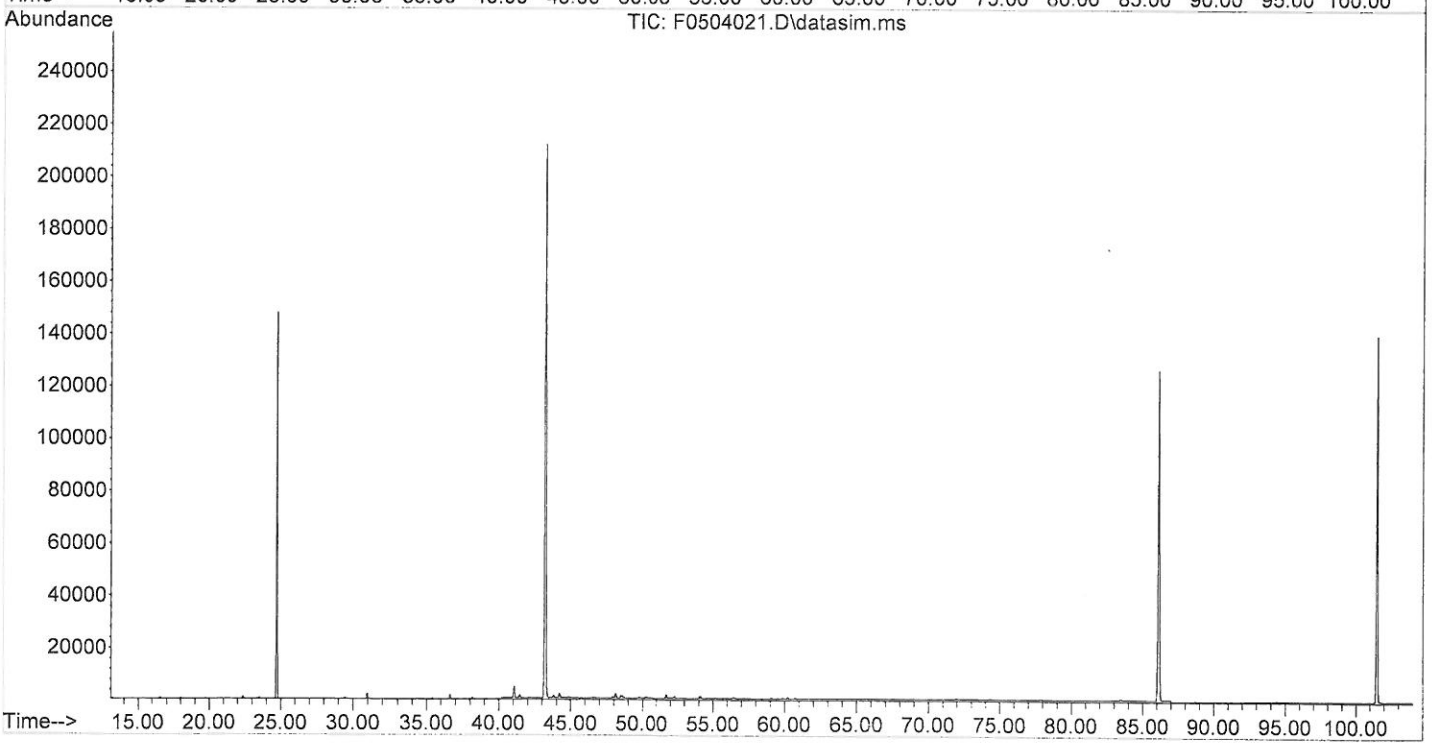
(#) = qualifier out of range (m) = manual integration (+) = signals summed

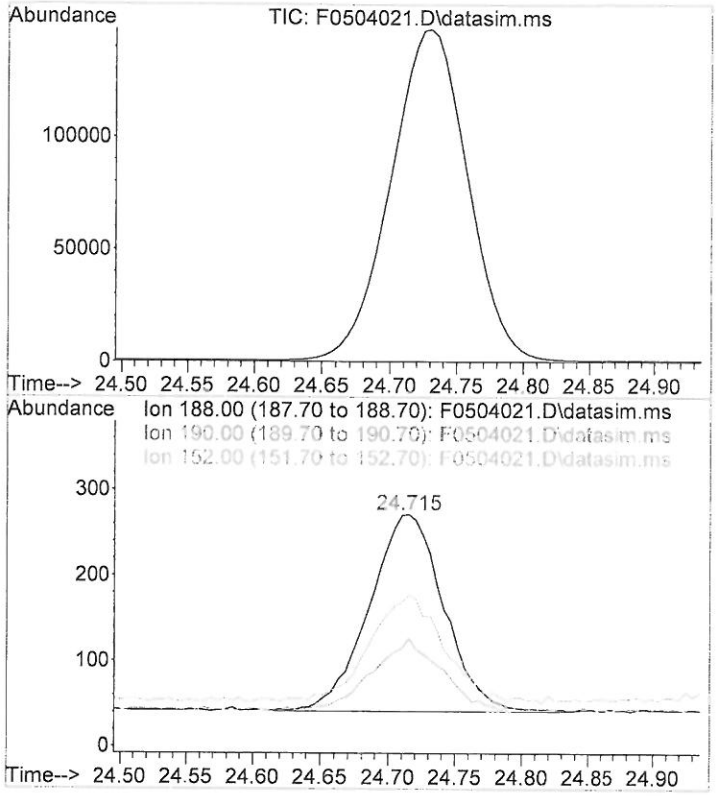
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504021.D
Acq On : 5 May 2017 10:57 pm
Operator : CJM
Sample : 17D0859-01@100X Inst : GCMSSV6
Misc :
ALS Vial : 39 Sample Multiplier: 1

Quant Time: May 08 12:59:06 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration



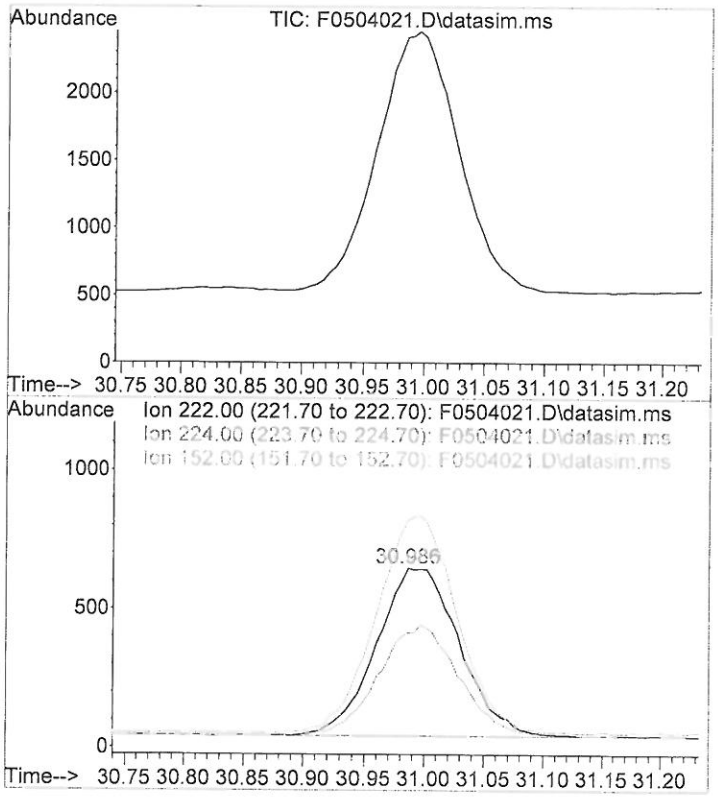




#2
CL1-BZ#1
Concen: 0.86 ng/mL
RT: 24.715 min Scan# 2220
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:188 Resp: 891

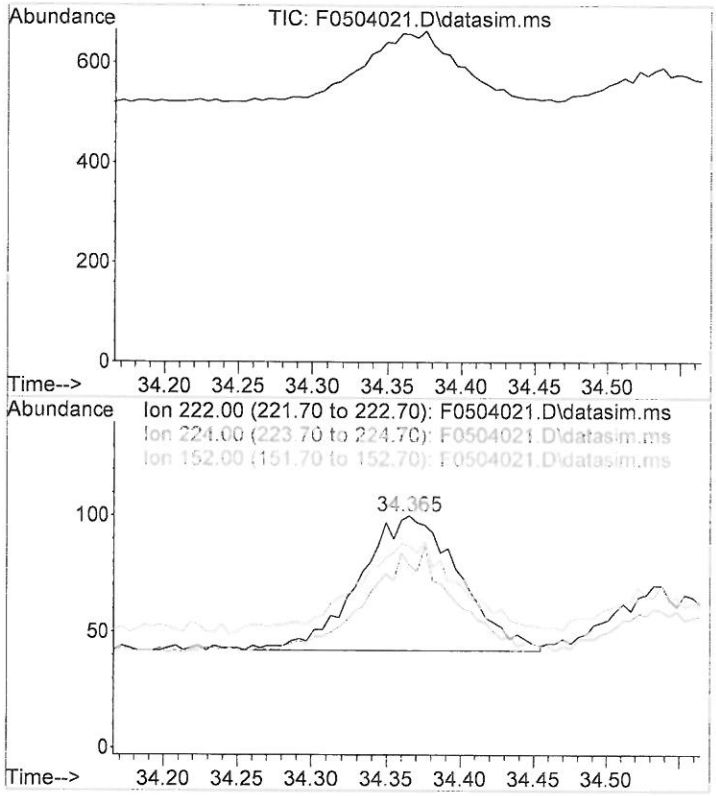
Ion	Ratio	Lower	Upper
188	100		
190	32.5	13.8	53.8
152	53.5	32.8	72.8



#5
CL2-BZ#4/#10
Concen: 3.67 ng/mL
RT: 30.986 min Scan# 3417
Delta R.T. -0.047 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:222 Resp: 2916

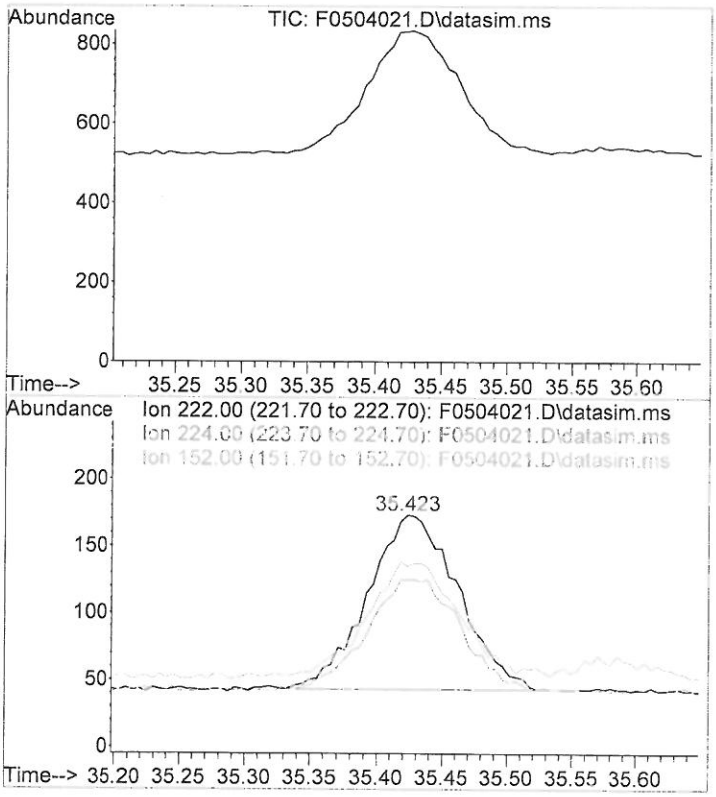
Ion	Ratio	Lower	Upper
222	100		
224	63.7	45.4	85.4
152	125.1	63.9	103.9#



#7
CL2-BZ#9
Concen: 0.24 ng/mL
RT: 34.365 min Scan# 4062
Delta R.T. -0.010 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:222 Resp: 273

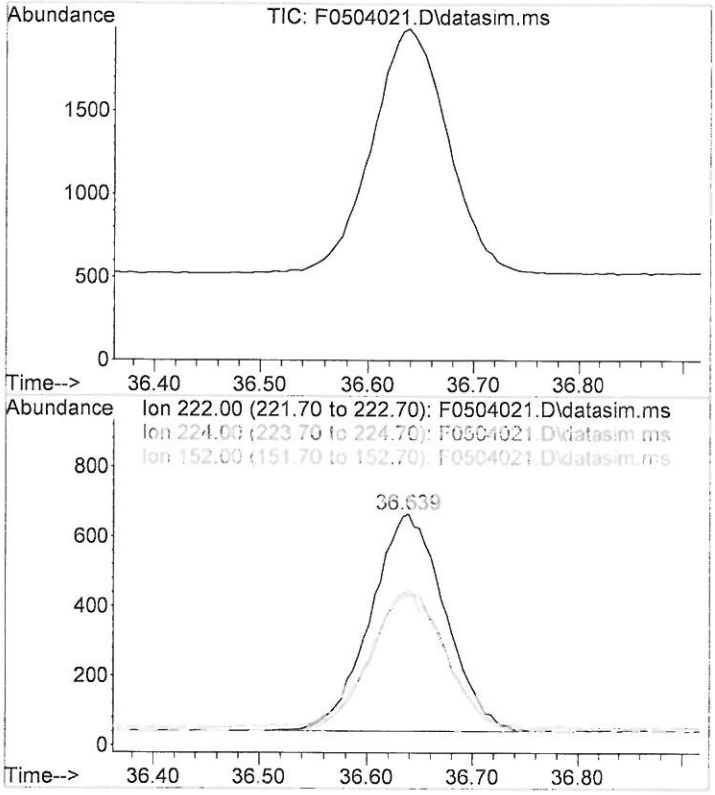
Ion	Ratio	Lower	Upper
222	100		
224	37.4	44.5	84.5#
152	58.6	41.2	81.2



#9
CL2-BZ#6
Concen: 0.54 ng/mL
RT: 35.423 min Scan# 4264
Delta R.T. -0.010 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:222 Resp: 621

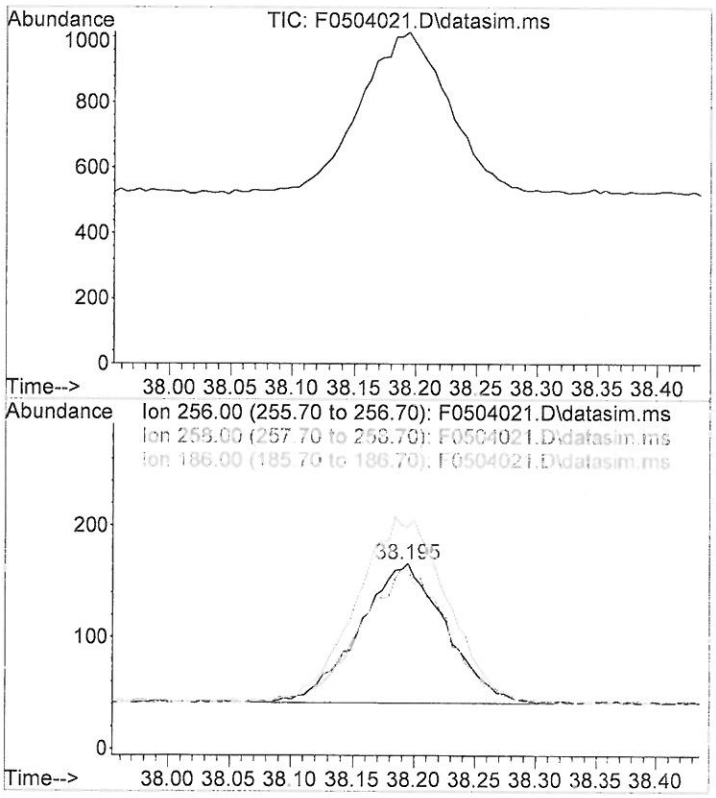
Ion	Ratio	Lower	Upper
222	100		
224	66.5	44.5	84.5
152	64.4	45.2	85.2



#11
CL2-BZ#8
Concen: 2.52 ng/mL
RT: 36.639 min Scan# 4496
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:222 Resp: 3047

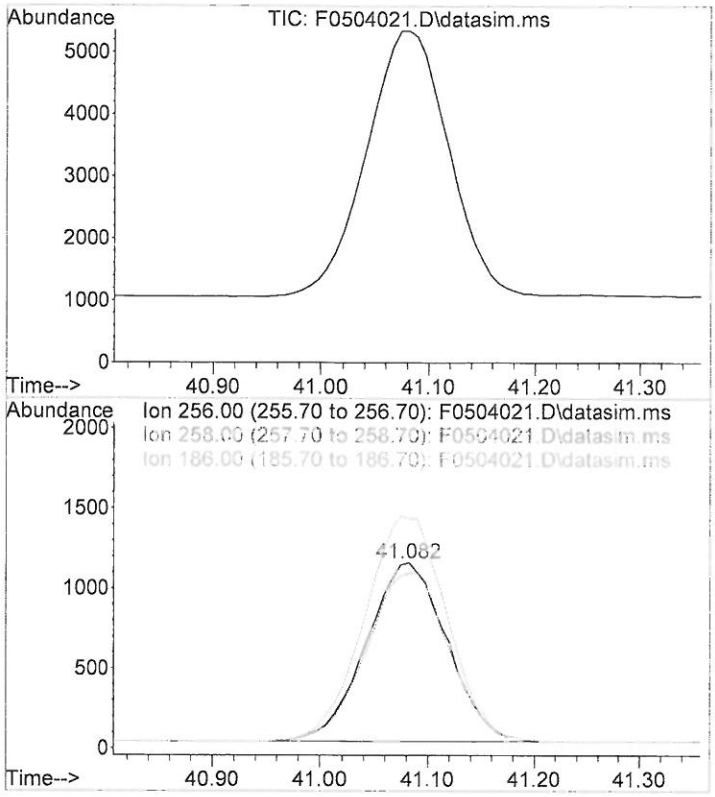
Ion	Ratio	Lower	Upper
222	100		
224	65.8	43.9	83.9
152	63.3	43.3	83.3



#12
CL3-BZ#19
Concen: 1.31 ng/mL
RT: 38.195 min Scan# 4793
Delta R.T. 0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 614

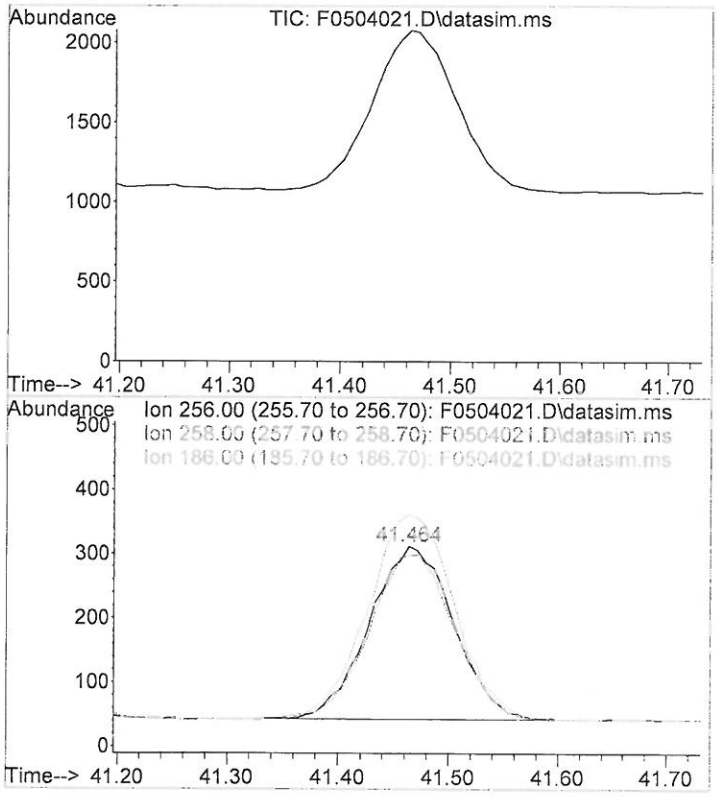
Ion	Ratio	Lower	Upper
256	100		
258	96.9	75.5	115.5
186	138.4	116.7	156.7



#15
CL3-BZ#18
Concen: 11.23 ng/mL
RT: 41.082 min Scan# 5292
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 5843

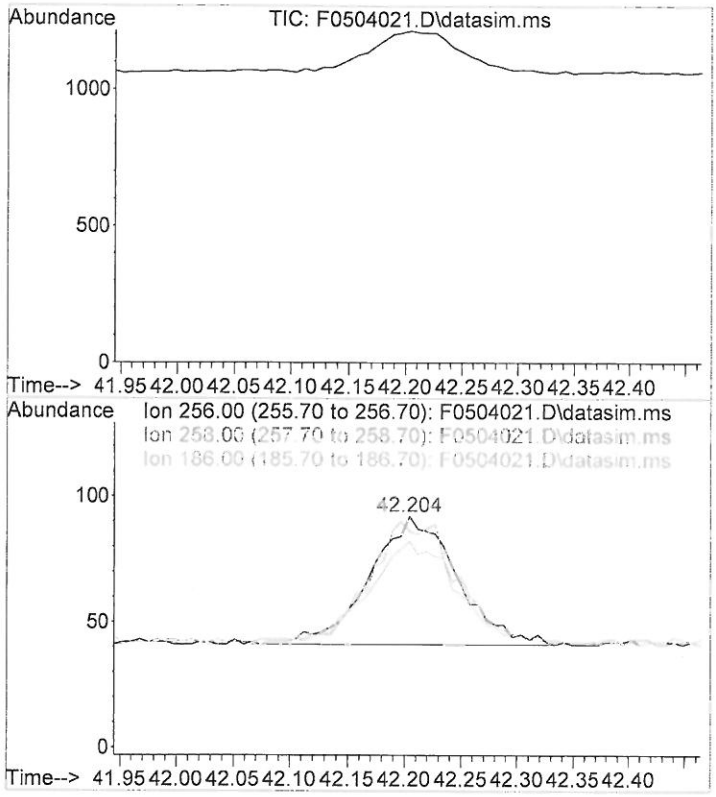
Ion	Ratio	Lower	Upper
256	100		
258	96.4	74.7	114.7
186	128.5	106.5	146.5



#17
CL3-BZ#17
Concen: 2.44 ng/mL
RT: 41.464 min Scan# 5342
Delta R.T. -0.013 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 1429

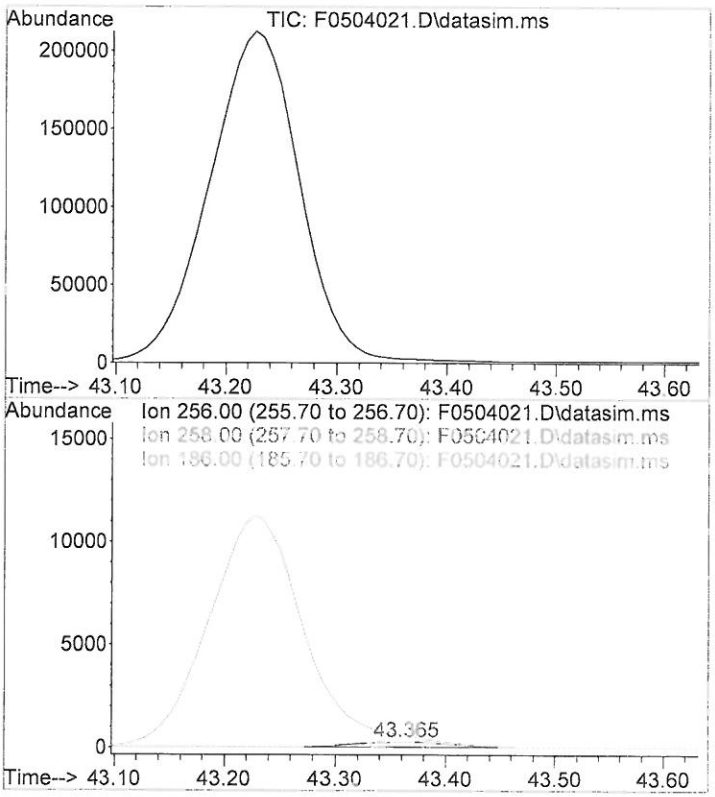
Ion	Ratio	Lower	Upper
256	100		
258	97.1	74.0	114.0
186	120.8	94.6	134.6



#19
CL3-BZ#27
Concen: 0.32 ng/mL
RT: 42.204 min Scan# 5439
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 274

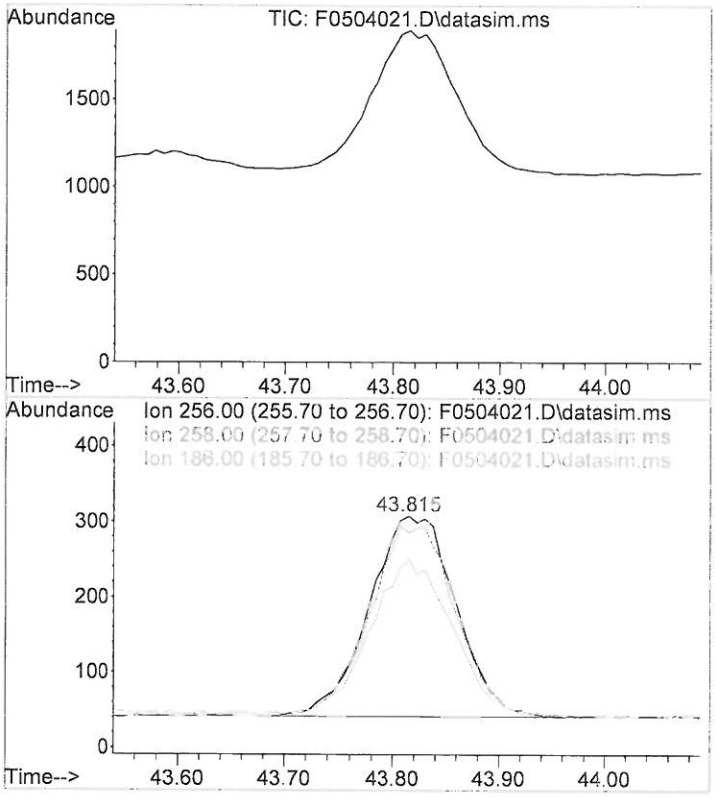
Ion	Ratio	Lower	Upper
256	100		
258	97.8	75.9	115.9
186	76.3	58.7	98.7



#22
CL3-BZ#16
Concen: 3.19 ng/mL
RT: 43.365 min Scan# 5591
Delta R.T. 0.010 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 1438

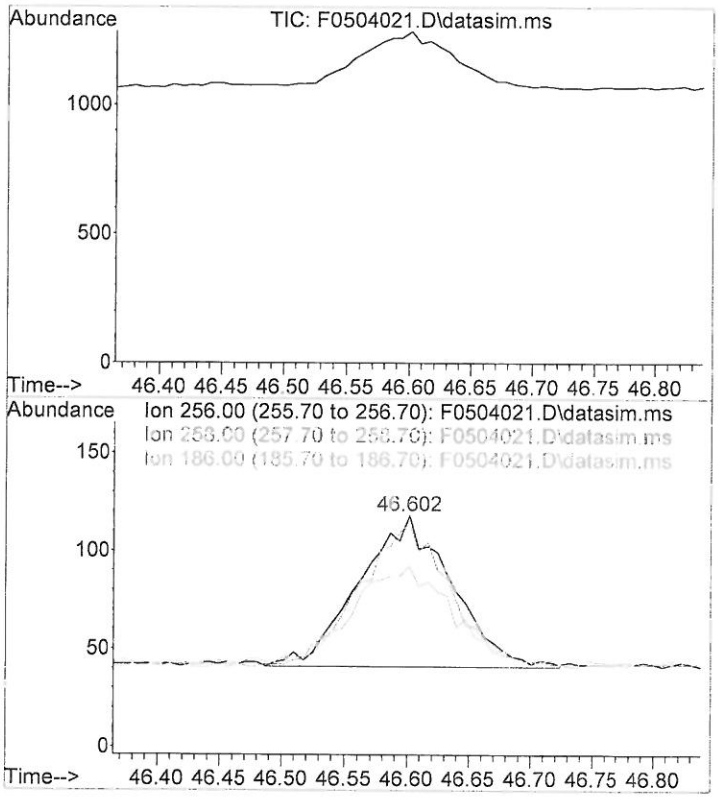
Ion	Ratio	Lower	Upper
256	100		
258	97.5	71.7	111.7
186	0.0	155.4	195.4#



#23
CL3-BZ#32
Concen: 1.64 ng/mL
RT: 43.815 min Scan# 5650
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 1498

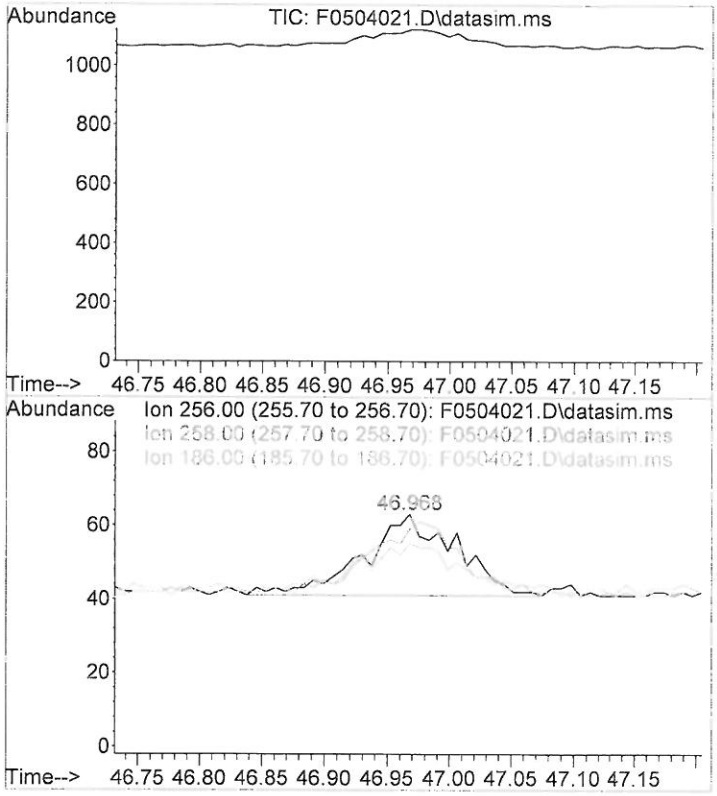
Ion	Ratio	Lower	Upper
256	100		
258	94.6	74.8	114.8
186	74.0	52.6	92.6



#30
CL3-BZ#26
Concen: 0.44 ng/mL
RT: 46.602 min Scan# 6015
Delta R.T. 0.003 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 395

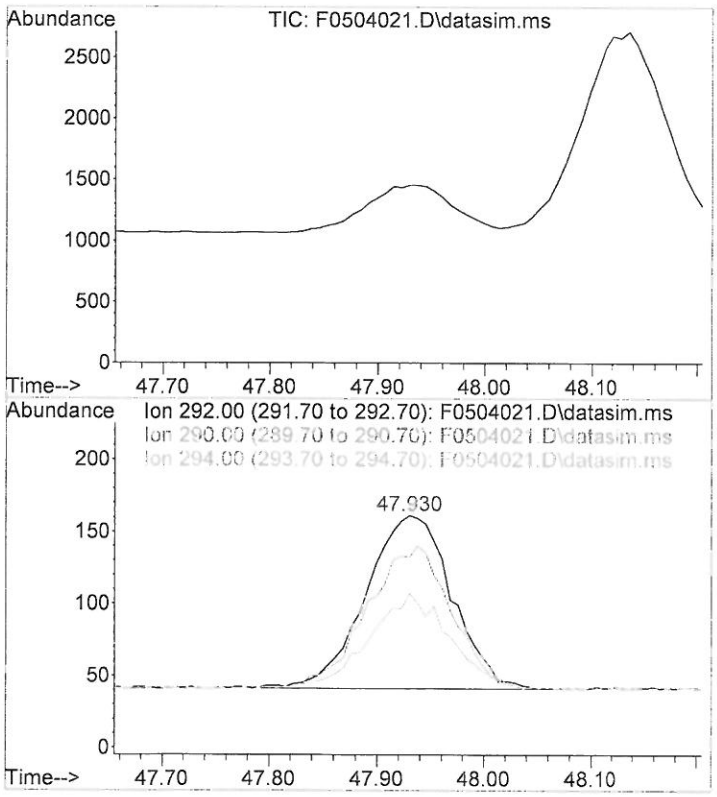
Ion	Ratio	Lower	Upper
256	100		
258	92.9	76.3	116.3
186	68.9	47.2	87.2



#31
CL3-BZ#25
Concen: 0.14 ng/mL
RT: 46.968 min Scan# 6063
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 112

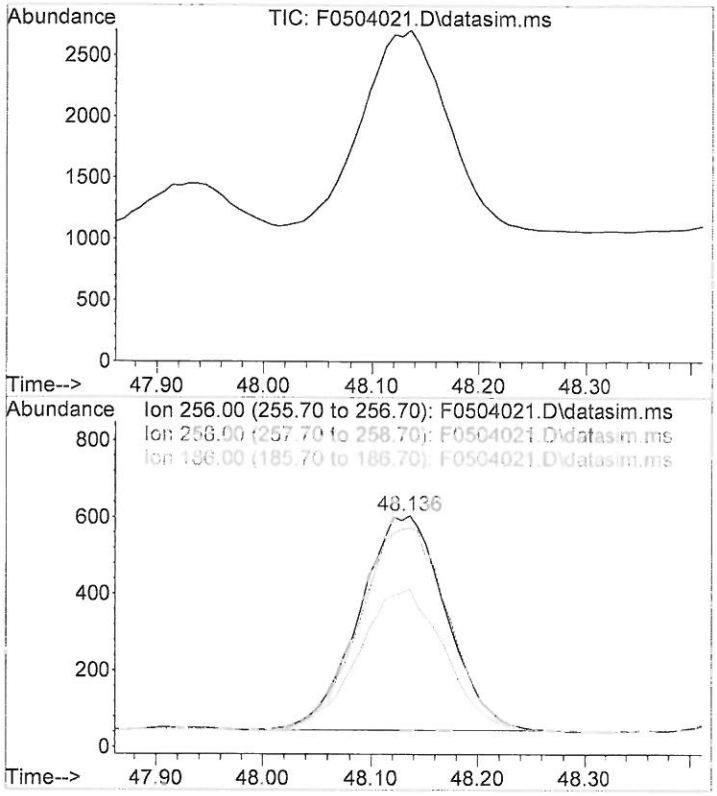
Ion	Ratio	Lower	Upper
256	100		
258	92.0	76.0	116.0
186	0.0	49.6	89.6#



#32
CL4-BZ#53
Concen: 1.33 ng/mL
RT: 47.930 min Scan# 6189
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 667

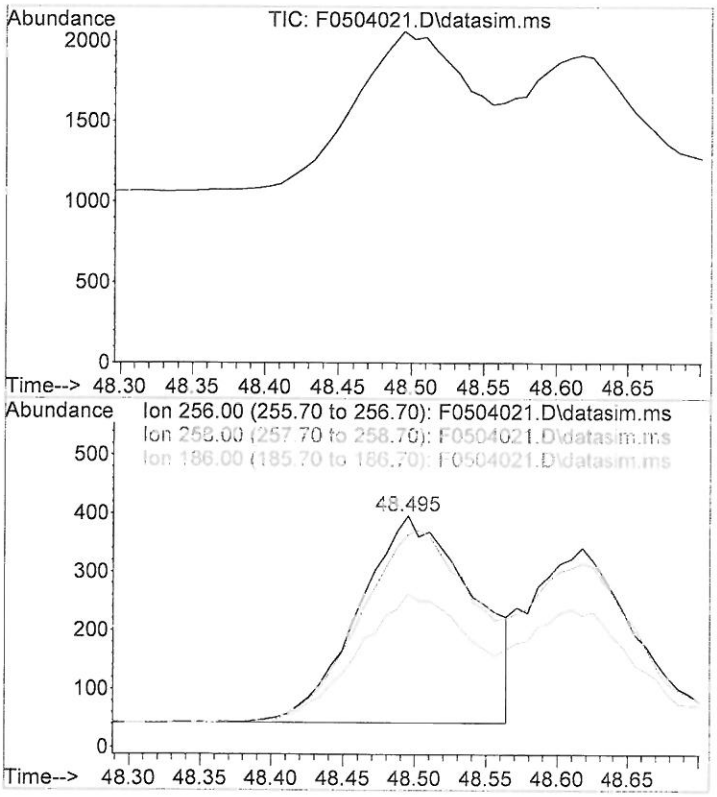
Ion	Ratio	Lower	Upper
292	100		
290	80.2	57.6	97.6
294	50.8	29.4	69.4



#33
CL3-BZ#31
Concen: 3.36 ng/mL
RT: 48.136 min Scan# 6216
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 3151

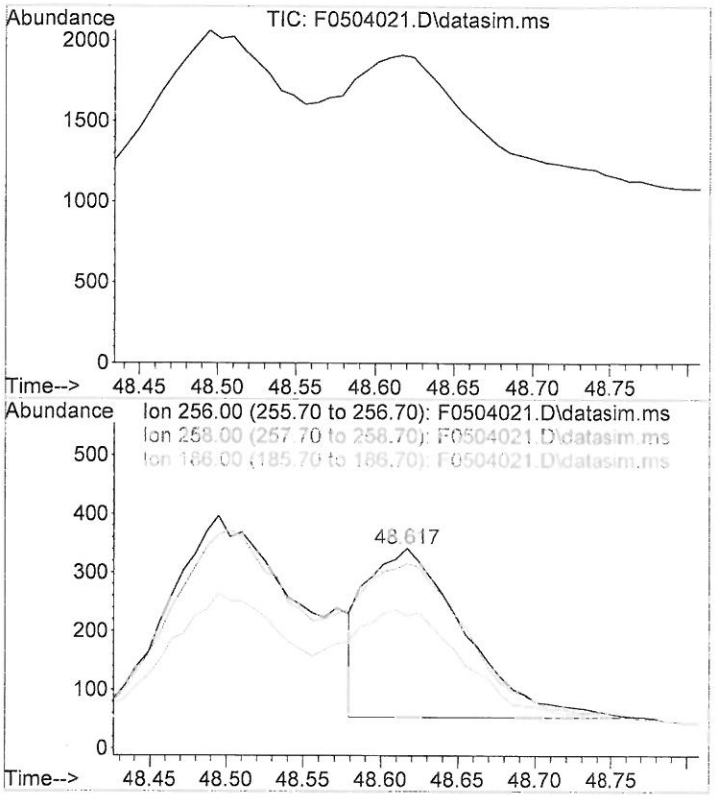
Ion	Ratio	Lower	Upper
256	100		
258	95.9	76.4	116.4
186	65.3	46.5	86.5



#34
CL3-BZ#28
Concen: 2.18 ng/mL
RT: 48.495 min Scan# 6263
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 1956

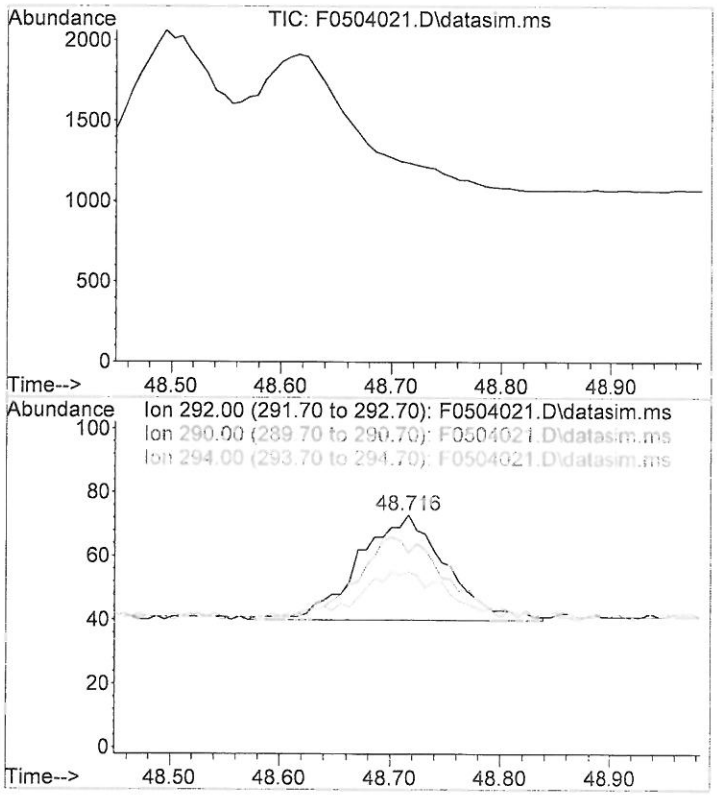
Ion	Ratio	Lower	Upper
256	100		
258	90.5	76.6	116.6
186	61.2	45.9	85.9



#35
CL3-BZ#33/#21/#20
Concen: 1.47 ng/mL
RT: 48.617 min Scan# 6279
Delta R.T. -0.020 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 1273

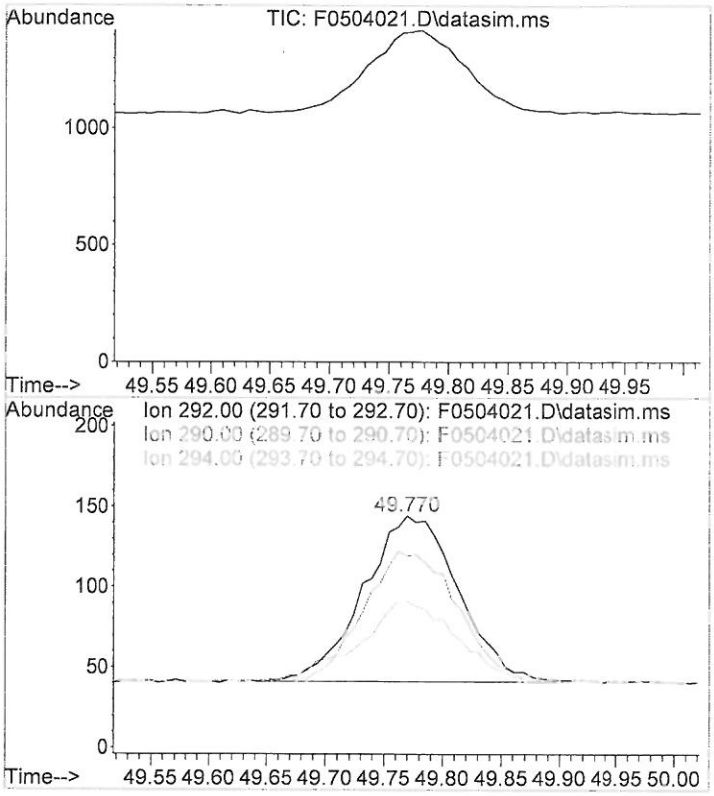
Ion	Ratio	Lower	Upper
256	100		
258	98.2	77.9	117.9
186	76.7	48.4	88.4



#36
CL4-BZ#51
Concen: 0.34 ng/mL
RT: 48.716 min Scan# 6292
Delta R.T. 0.003 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 180

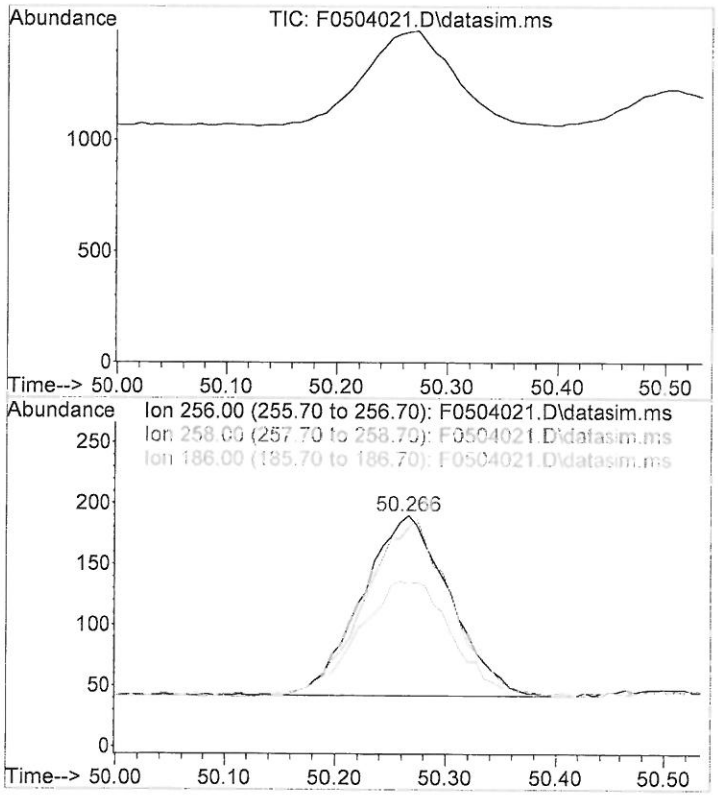
Ion	Ratio	Lower	Upper
292	100		
290	79.4	60.8	100.8
294	0.0	28.8	68.8#



#37
CL4-BZ#45
Concen: 1.21 ng/mL
RT: 49.770 min Scan# 6430
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 578

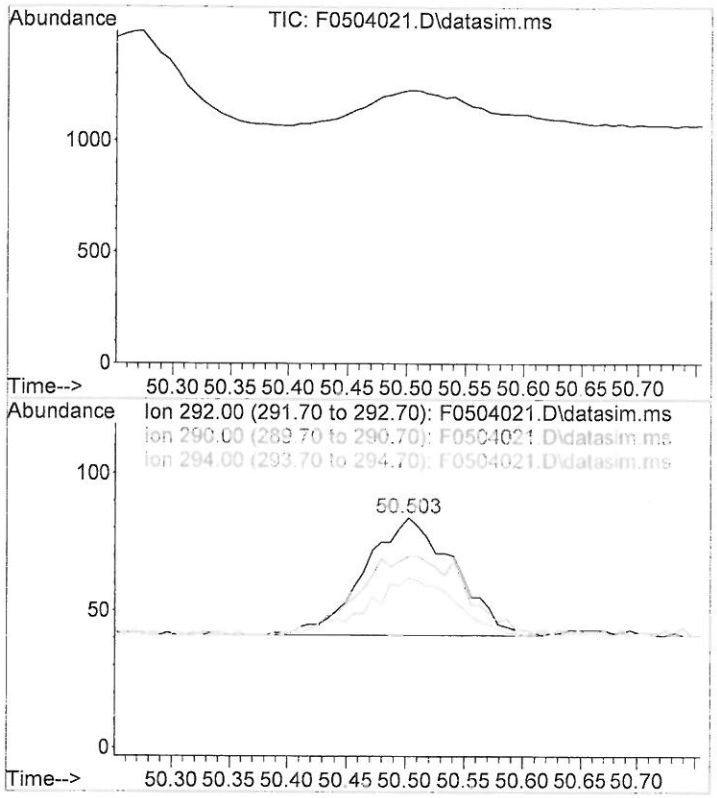
Ion	Ratio	Lower	Upper
292	100		
290	79.2	58.6	98.6
294	47.9	29.4	69.4



#38
CL3-BZ#22
Concen: 1.01 ng/mL
RT: 50.266 min Scan# 6495
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:256 Resp: 817

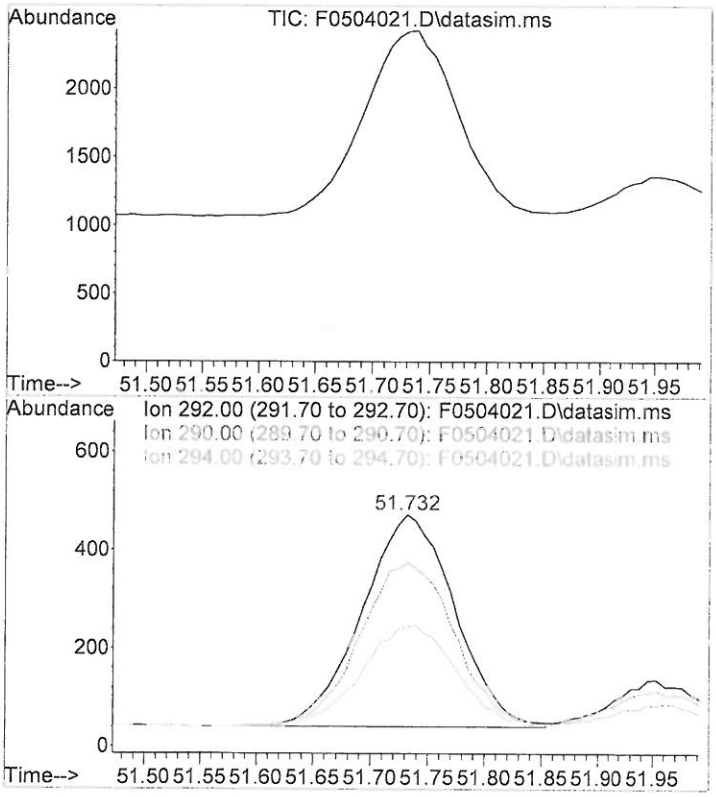
Ion	Ratio	Lower	Upper
256	100		
258	96.9	77.3	117.3
186	66.8	49.8	89.8



#39
CL4-BZ#46
Concen: 0.52 ng/mL
RT: 50.503 min Scan# 6526
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 229

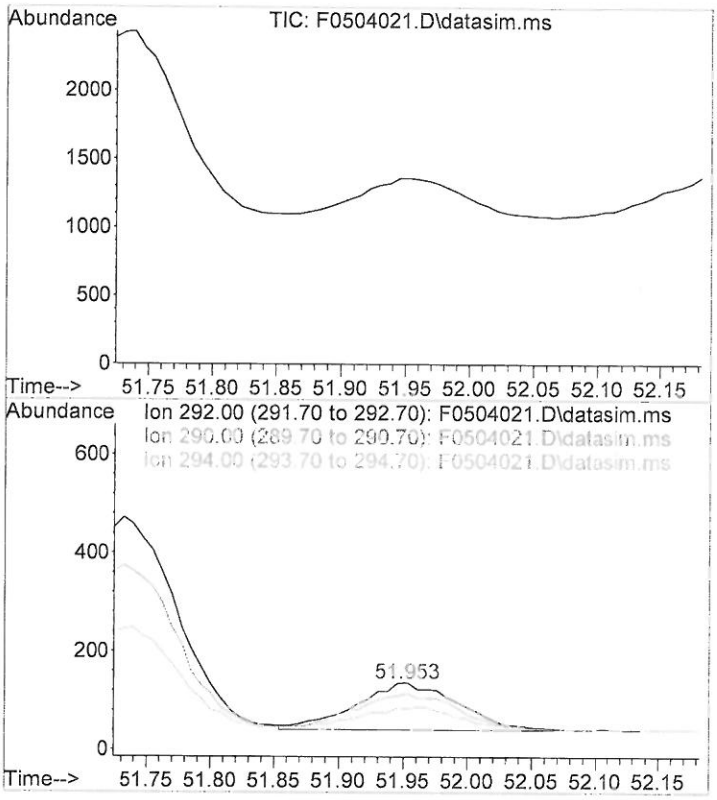
Ion	Ratio	Lower	Upper
292	100		
290	79.0	59.4	99.4
294	48.0	28.6	68.6



#44
CL4-BZ#52
Concen: 4.30 ng/mL
RT: 51.732 min Scan# 6687
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 2426

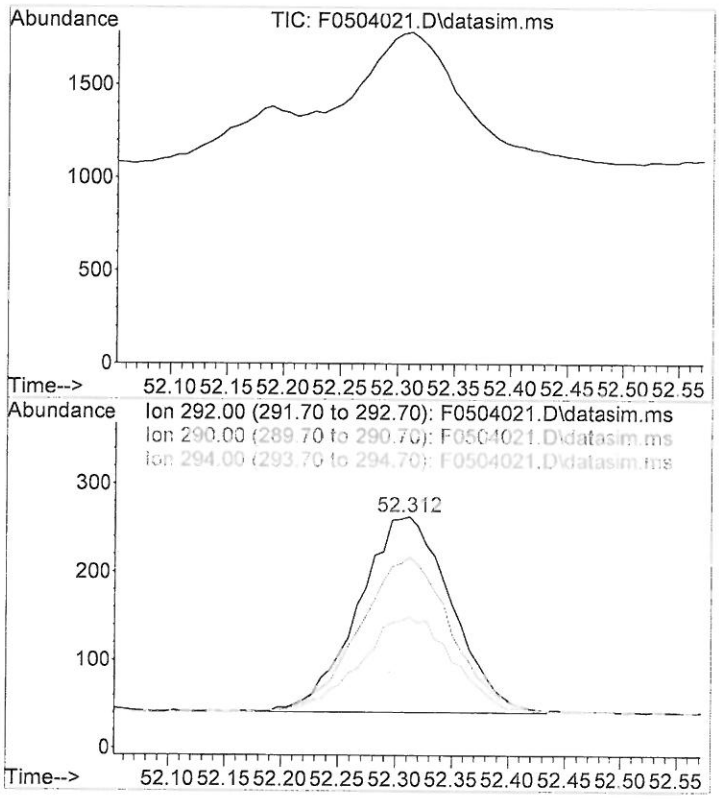
Ion	Ratio	Lower	Upper
292	100		
290	77.8	58.5	98.5
294	48.4	30.1	70.1



#45
CL4-BZ#48
Concen: 1.04 ng/mL
RT: 51.953 min Scan# 6716
Delta R.T. 0.003 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 524

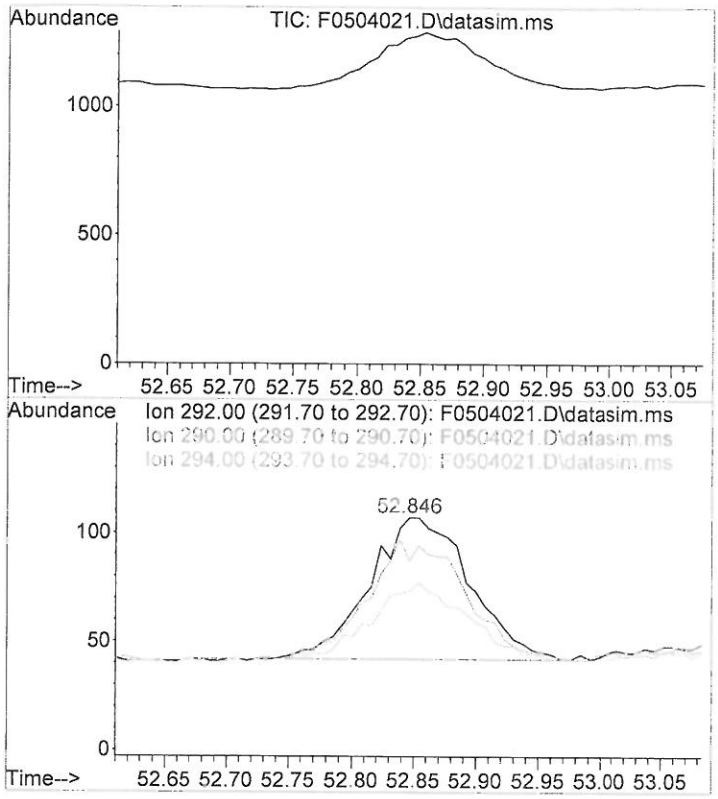
Ion	Ratio	Lower	Upper
292	100		
290	77.5	58.9	98.9
294	49.6	30.2	70.2



#46
CL4-BZ#49
Concen: 2.14 ng/mL
RT: 52.312 min Scan# 6763
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 1263

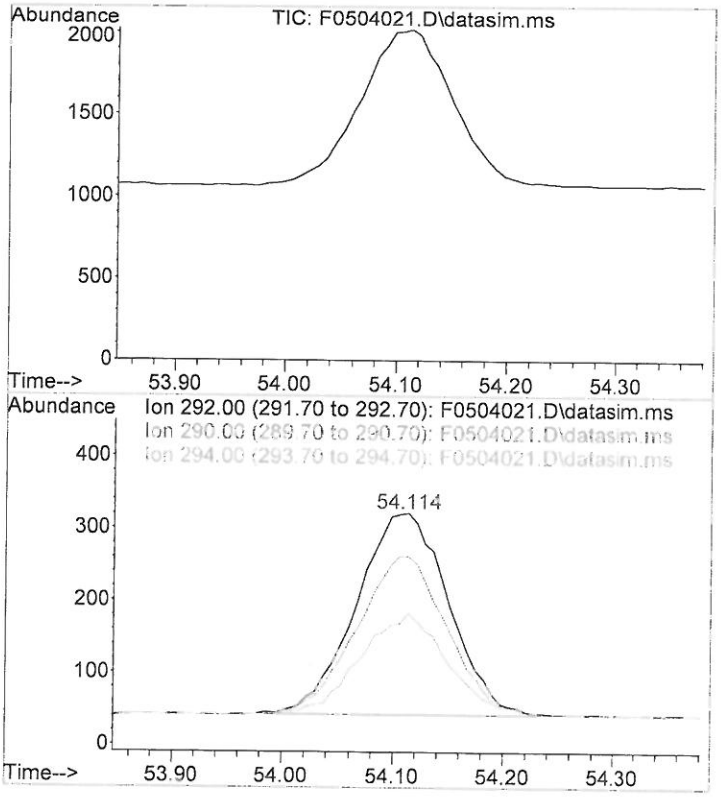
Ion	Ratio	Lower	Upper
292	100		
290	78.2	59.6	99.6
294	48.8	27.9	67.9



#48
CL4-BZ#47/#65/#62
Concen: 0.56 ng/mL
RT: 52.846 min Scan# 6833
Delta R.T. -0.028 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 362

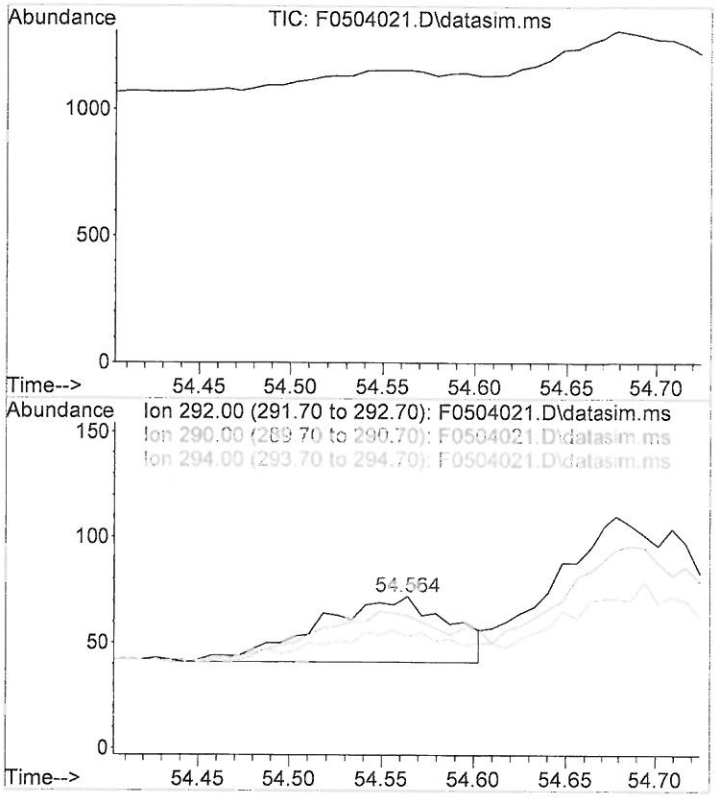
Ion	Ratio	Lower	Upper
292	100		
290	85.1	59.0	99.0
294	54.1	29.1	69.1



#52
CL4-BZ#44
Concen: 3.82 ng/mL
RT: 54.114 min Scan# 6999
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 1621

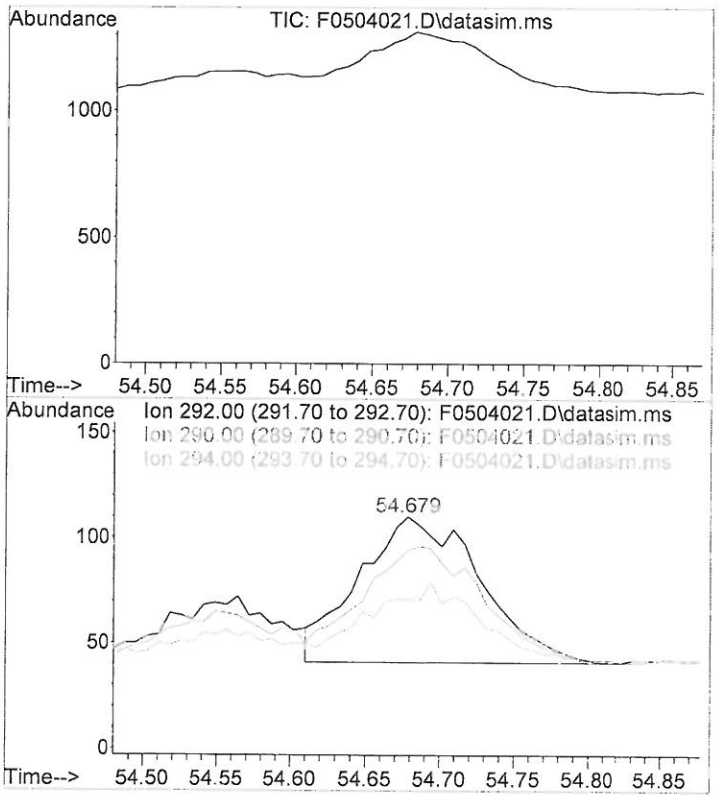
Ion	Ratio	Lower	Upper
292	100		
290	76.7	59.0	99.0
294	47.9	30.6	70.6



#53
CL4-BZ#59
Concen: 0.21 ng/mL
RT: 54.564 min Scan# 7058
Delta R.T. 0.018 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 153

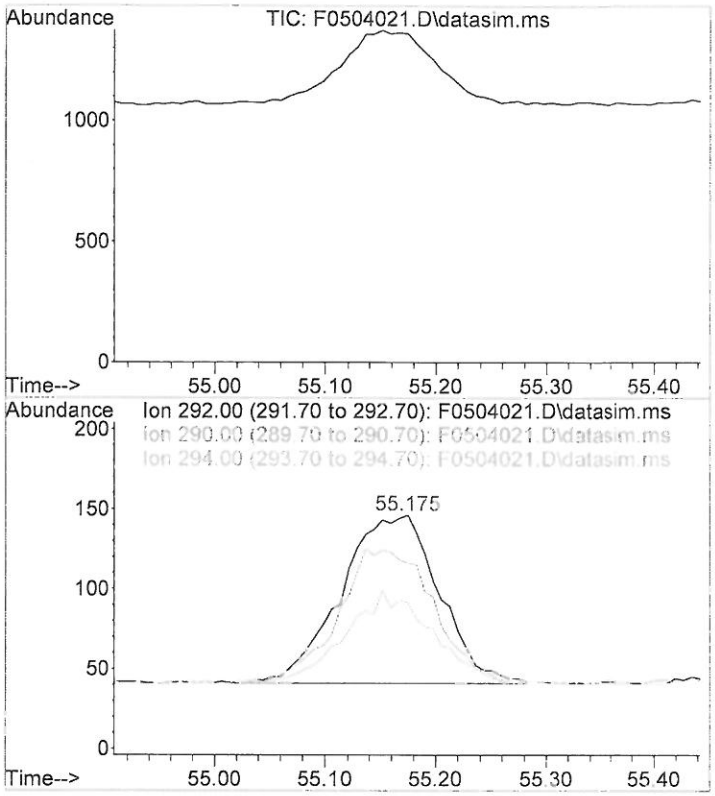
Ion	Ratio	Lower	Upper
292	100		
290	70.6	58.4	98.4
294	0.0	29.6	69.6#



#54
CL4-BZ#42
Concen: 0.93 ng/mL
RT: 54.679 min Scan# 7073
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 391

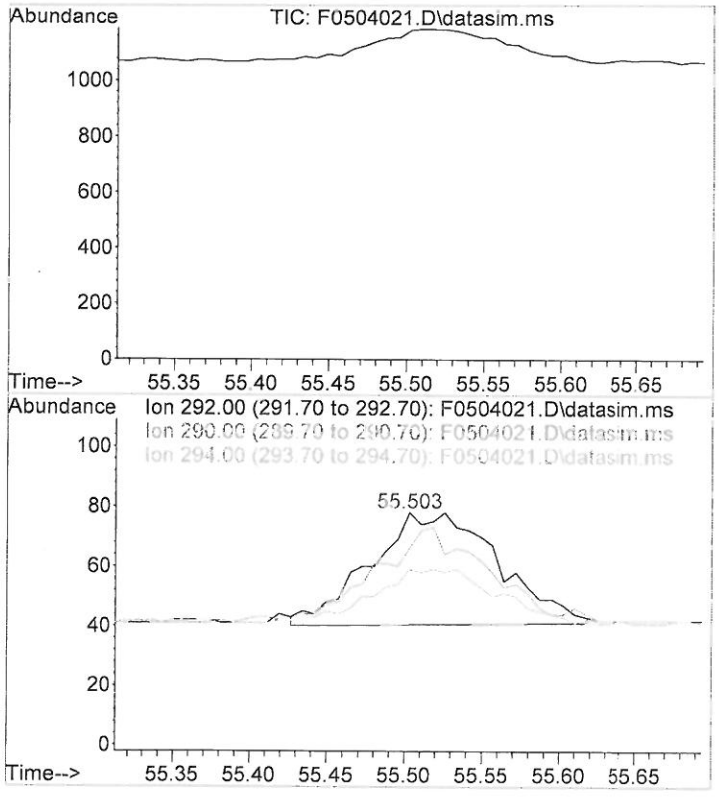
Ion	Ratio	Lower	Upper
292	100		
290	76.5	58.8	98.8
294	49.4	29.4	69.4



#55
CL4-BZ#71
Concen: 0.91 ng/mL
RT: 55.175 min Scan# 7138
Delta R.T. 0.018 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 643

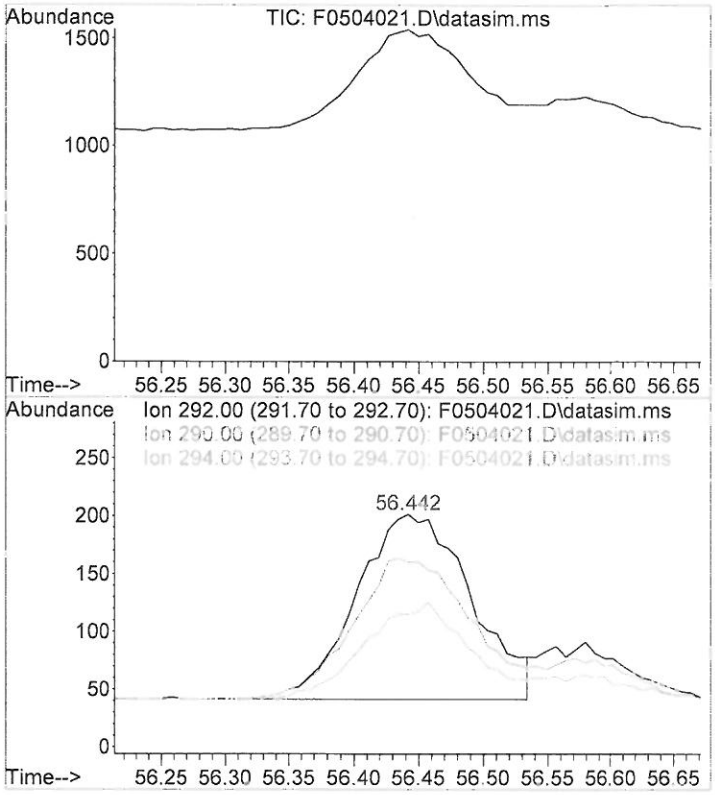
Ion	Ratio	Lower	Upper
292	100		
290	75.0	58.4	98.4
294	48.1	28.3	68.3



#57
CL4-BZ#41
Concen: 0.47 ng/mL m
RT: 55.503 min Scan# 7181
Delta R.T. -0.020 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 216

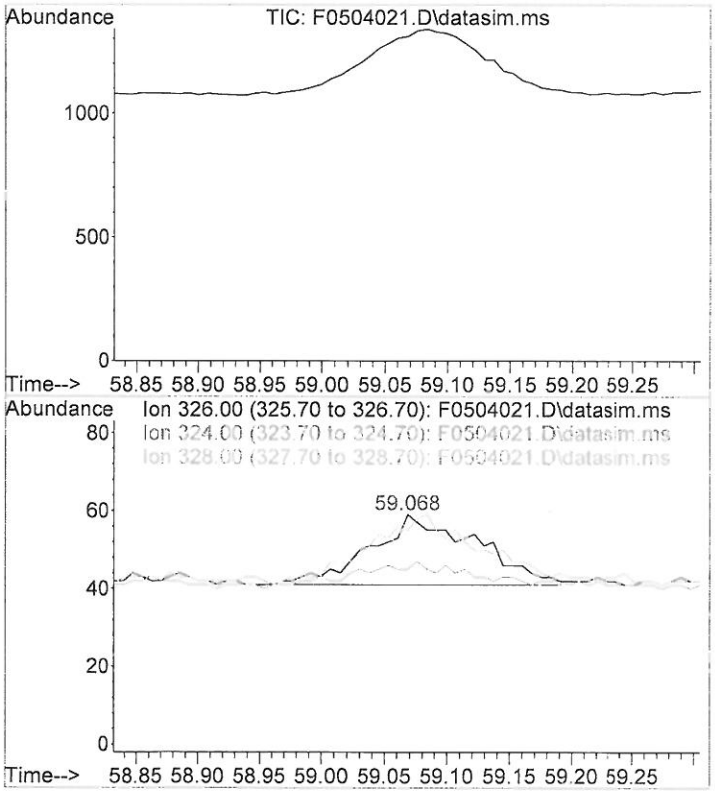
Ion	Ratio	Lower	Upper
292	100		
290	68.5	59.4	99.4
294	46.8	30.0	70.0



#61
CL4-BZ#64
Concen: 1.46 ng/mL
RT: 56.442 min Scan# 7304
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 983

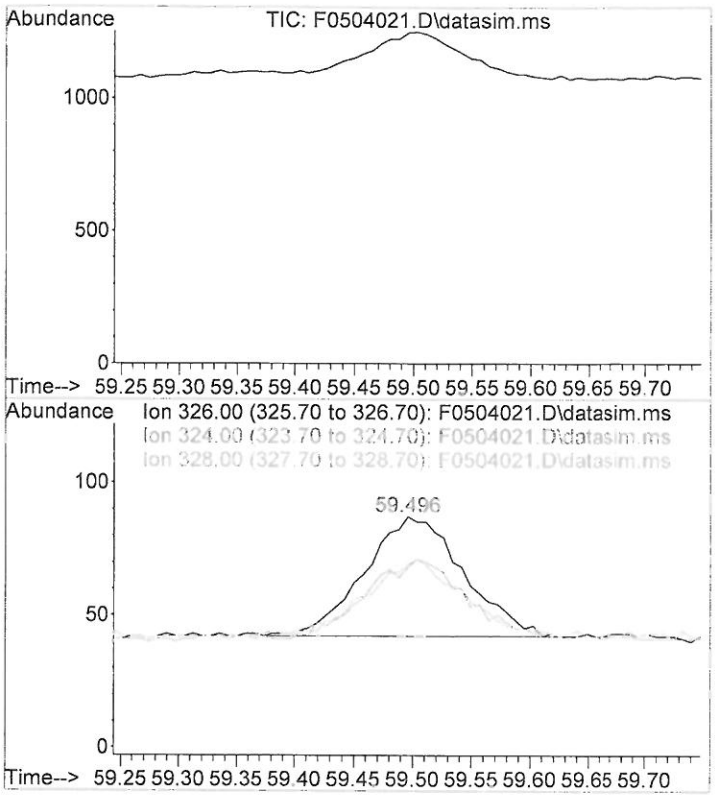
Ion	Ratio	Lower	Upper
292	100		
290	79.0	58.3	98.3
294	47.1	27.8	67.8



#71
CL5-BZ#93
Concen: 0.27 ng/mL
RT: 59.068 min Scan# 7648
Delta R.T. 0.010 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:326 Resp: 105

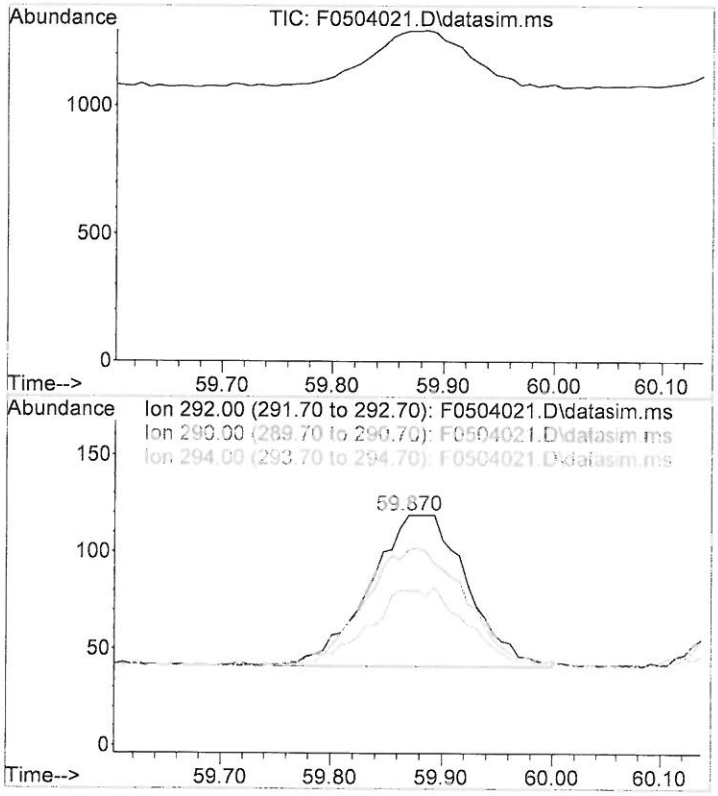
Ion	Ratio	Lower	Upper
326	100		
324	0.0	45.7	85.7#
328	104.8	46.6	86.6#



#74
CL5-BZ#88/#95
Concen: 0.57 ng/mL
RT: 59.496 min Scan# 7704
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:326 Resp: 263

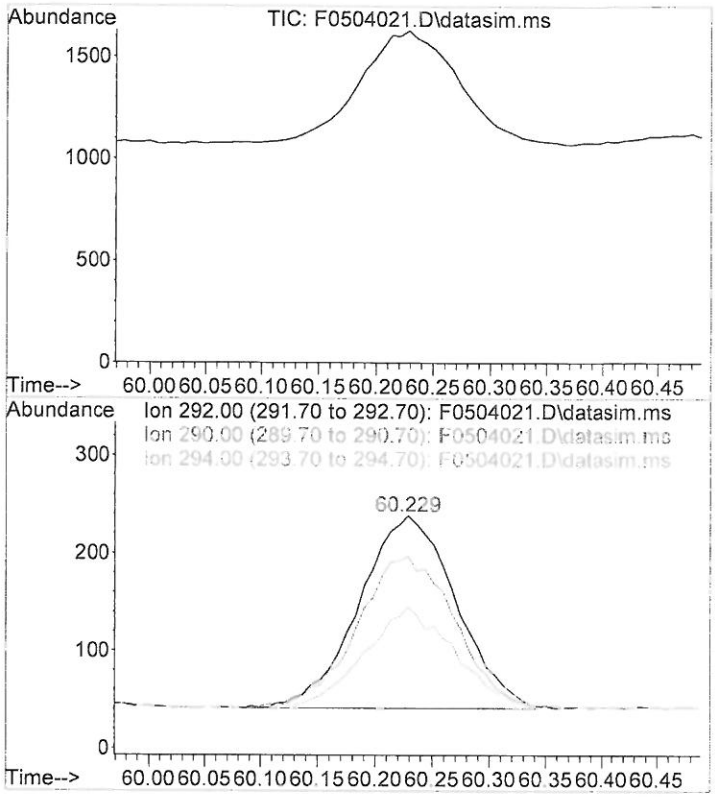
Ion	Ratio	Lower	Upper
326	100		
324	68.1	44.0	84.0
328	62.4	43.4	83.4



#76
CL4-BZ#74
Concen: 0.66 ng/mL
RT: 59.870 min Scan# 7753
Delta R.T. -0.005 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 475

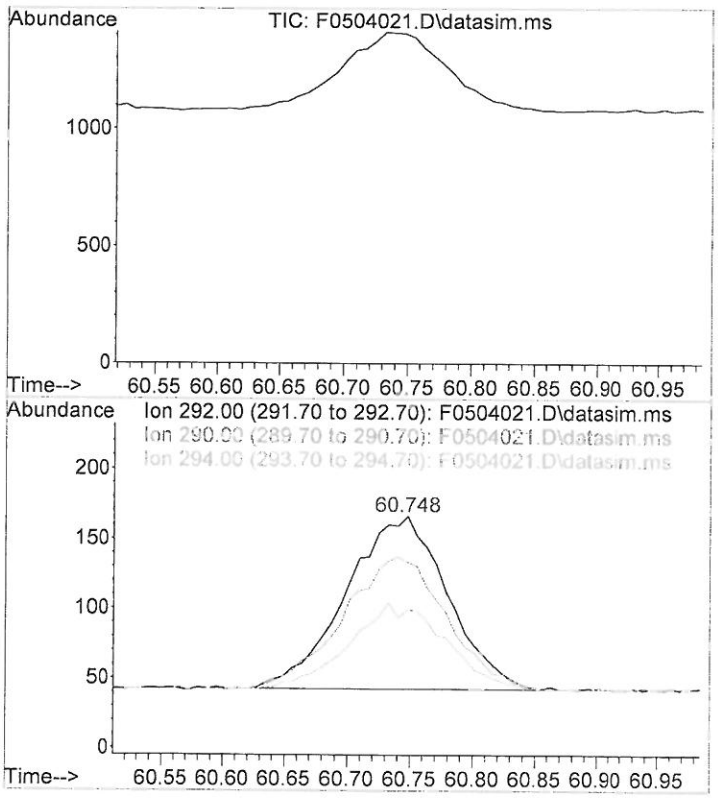
Ion	Ratio	Lower	Upper
292	100		
290	77.9	58.9	98.9
294	51.4	28.6	68.6



#78
CL4-BZ#70
Concen: 1.39 ng/mL
RT: 60.229 min Scan# 7800
Delta R.T. 0.010 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 1161

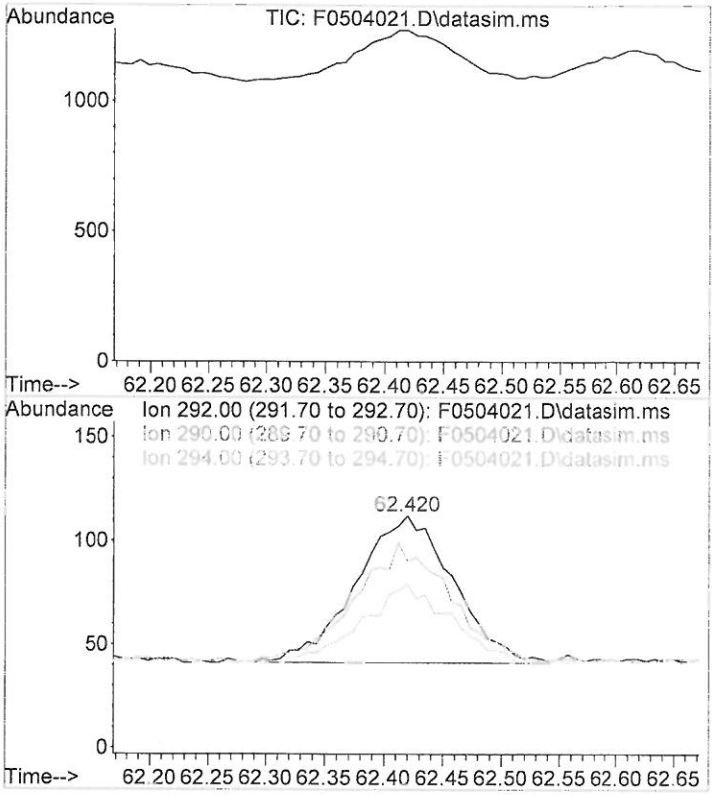
Ion	Ratio	Lower	Upper
292	100		
290	78.6	70.2	110.2
294	49.5	27.2	67.2



#80
CL4-BZ#66
Concen: 0.91 ng/mL
RT: 60.748 min Scan# 7868
Delta R.T. 0.010 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 697

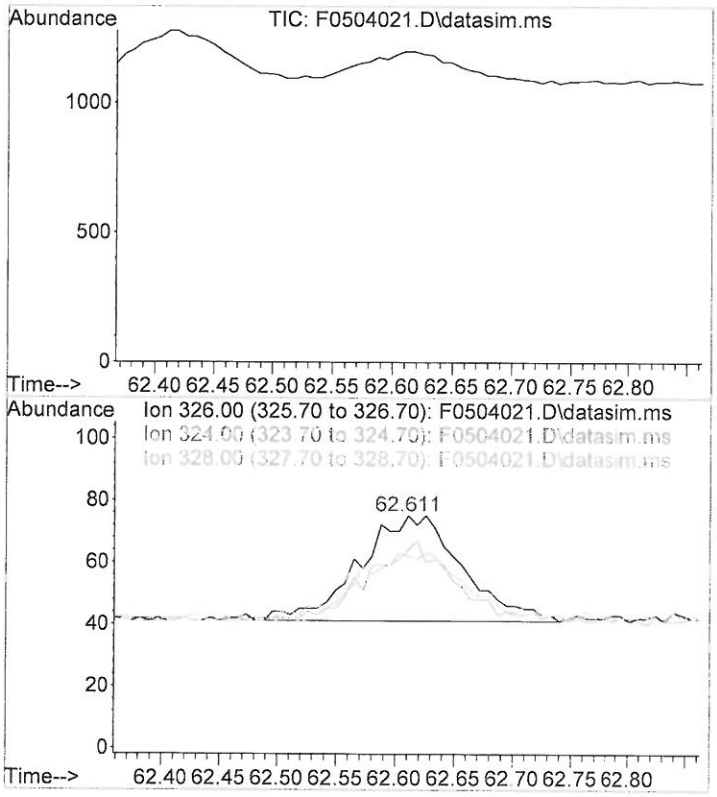
Ion	Ratio	Lower	Upper
292	100		
290	77.9	58.4	98.4
294	48.9	29.1	69.1



#85
CL4-BZ#56
Concen: 0.60 ng/mL
RT: 62.420 min Scan# 8087
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 407

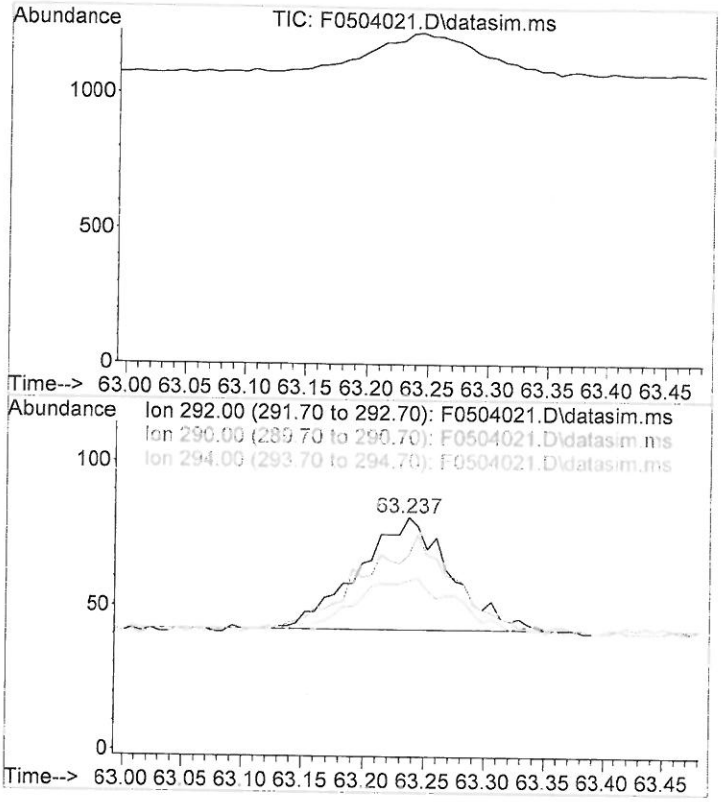
Ion	Ratio	Lower	Upper
292	100		
290	80.6	60.7	100.7
294	49.4	30.4	70.4



#86
CL5-BZ#90/#101
Concen: 0.46 ng/mL
RT: 62.611 min Scan# 8112
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:326 Resp: 206

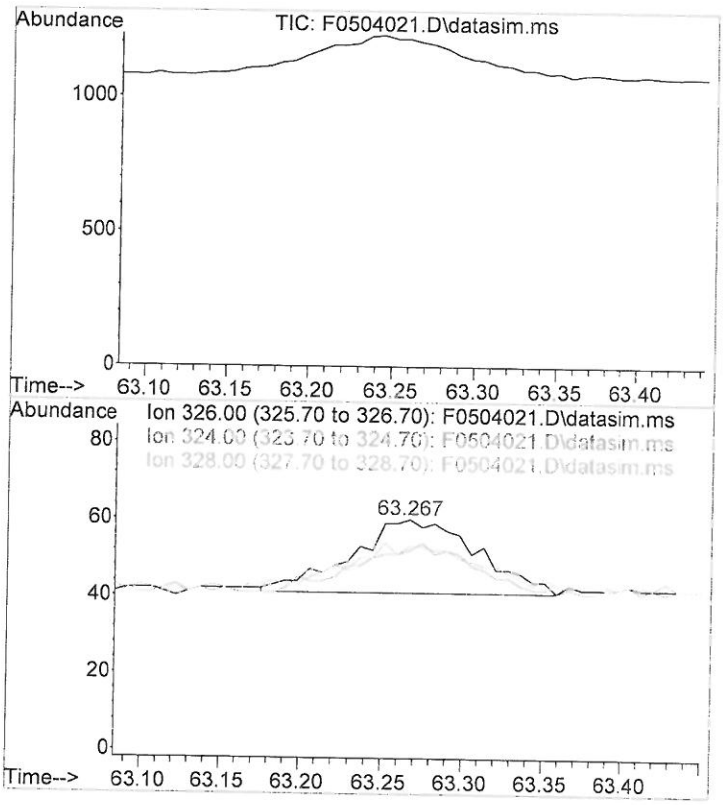
Ion	Ratio	Lower	Upper
326	100		
324	64.1	44.7	84.7
328	70.4	45.9	85.9



#88
CL4-BZ#60
Concen: 0.24 ng/mL
RT: 63.237 min Scan# 8194
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:292 Resp: 204

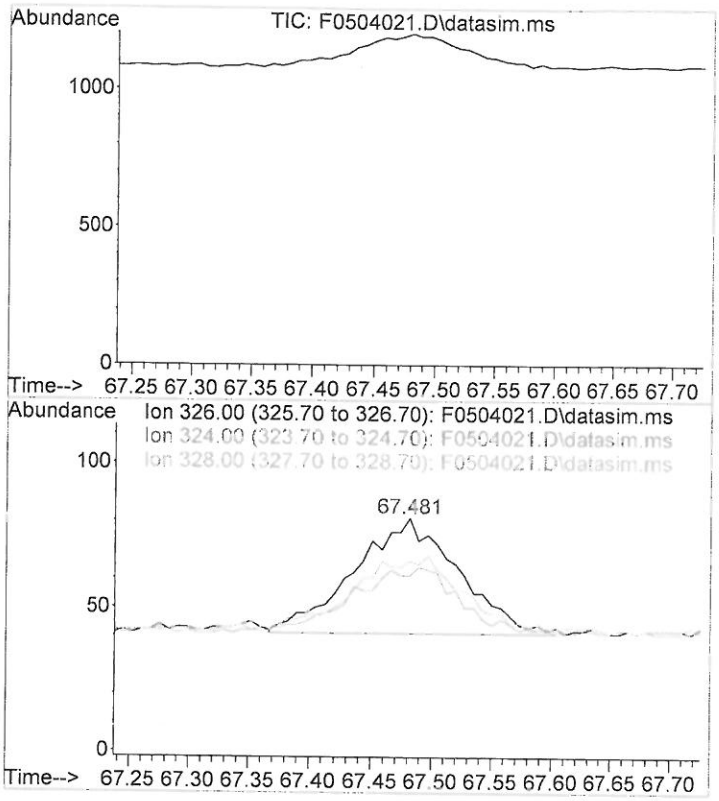
Ion	Ratio	Lower	Upper
292	100		
290	83.3	66.1	106.1
294	55.4	26.1	66.1



#89
CL5-BZ#99
Concen: 0.21 ng/mL
RT: 63.267 min Scan# 8198
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:326 Resp: 102

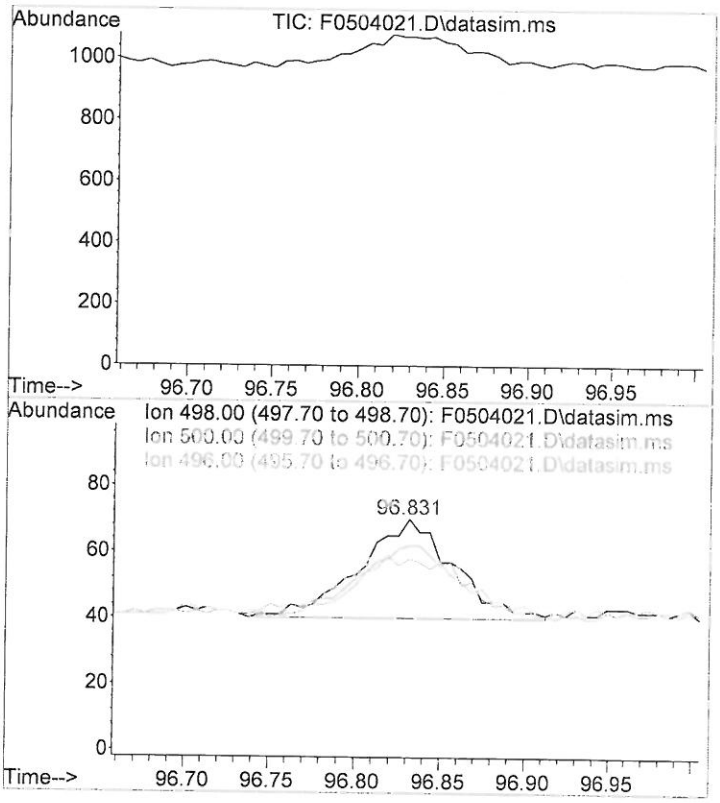
Ion	Ratio	Lower	Upper
326	100		
324	0.0	48.7	88.7#
328	0.0	45.6	85.6#



#105
CL5-BZ#120/#110
Concen: 0.40 ng/mL
RT: 67.481 min Scan# 8750
Delta R.T. 0.086 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:326 Resp: 239

Ion	Ratio	Lower	Upper
326	100		
324	0.0	45.5	85.5#
328	65.3	45.3	85.3



#185
CL10-BZ#209
Concen: 0.56 ng/mL
RT: 96.831 min Scan# 12893
Delta R.T. 0.002 min
Lab File: F0504021.D
Acq: 5 May 2017 10:57 pm

Tgt Ion:498 Resp: 115

Ion	Ratio	Lower	Upper
498	100		
500	0.0	64.3	104.3#
496	0.0	50.9	90.9#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504024.D
Acq On : 6 May 2017 4:16 am
Operator : CJM
Sample : 17D0859-01 Inst : GCMSSV6
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: May 08 13:03:17 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Phenanthrene-D10	43.232	188	906106	500.000	ng/mL	0.00
81) Chrysene-D12	86.145	240	653655	500.000	ng/mL	0.00
177) Perylene-D12	101.507	264	602845	500.000	ng/mL	0.02
System Monitoring Compounds						
6) TCMX	31.960	244	7851	34.470	ng/mL	0.00
Target Compounds						Qvalue
2] CL1-BZ#1	24.715	188	44653	45.957	ng/mL	98
3] CL1-BZ#2	29.173	188	1490	1.191	ng/mL	98
4] CL1-BZ#3	30.153	188	4249	3.717	ng/mL	96
5] CL2-BZ#4/#10	31.002	222	202001	270.500	ng/mL#	73
7] CL2-BZ#9	34.365	222	20250	18.935	ng/mL	100
8] CL2-BZ#7	34.538	222	9160	9.170	ng/mL	99
9] CL2-BZ#6	35.434	222	50514	46.389	ng/mL	100
10] CL2-BZ#5	36.277	222	7205	7.468	ng/mL	99
11] CL2-BZ#8	36.644	222	248330	217.945	ng/mL	99
12] CL3-BZ#19	38.195	256	51988	118.089	ng/mL	99
15] CL3-BZ#18	41.102	256	529524	1081.443	ng/mL	98
16] CL2-BZ#11	41.324	222	430	0.383	ng/mL#	1
17] CL3-BZ#17	41.469	256	129872	235.594	ng/mL	97
18] CL2-BZ#12	42.049	222	858	0.833	ng/mL	91
19] CL3-BZ#27	42.217	256	23797	29.760	ng/mL	98
20] CL2-BZ#13	42.698	222	1985	1.720	ng/mL	91
21] CL3-BZ#24	42.698	256	3762	5.299	ng/mL	95
22] CL3-BZ#16	43.370	256	126390	297.924	ng/mL#	87
23] CL3-BZ#32	43.828	256	135073	156.736	ng/mL	99
24] CL2-BZ#15	44.164	222	6100	5.741	ng/mL	94
25] CL3-BZ#34	44.706	256	753	0.903	ng/mL	98
26] CL4-BZ#54	44.897	292	1734	2.784	ng/mL	99
27] CL3-BZ#23	45.019	256	251	0.326	ng/mL	92
28] CL3-BZ#29	45.454	256	1354	1.595	ng/mL	94
29] CL4-BZ#50	46.462	292	797	1.554	ng/mL	98
30] CL3-BZ#26	46.607	256	34678	40.823	ng/mL	99
31] CL3-BZ#25	46.973	256	8509	11.189	ng/mL	98
32] CL4-BZ#53	47.935	292	62408	132.522	ng/mL	99
33] CL3-BZ#31	48.141	256	303567	343.951	ng/mL	99
34] CL3-BZ#28	48.508	256	179825	213.088	ng/mL	97
35] CL3-BZ#33/#21/#20	48.622	256	124284	152.935	ng/mL	99
36] CL4-BZ#51	48.714	292	14822	29.615	ng/mL	98
37] CL4-BZ#45	49.775	292	54771	122.166	ng/mL	99
38] CL3-BZ#22	50.271	256	77612	101.869	ng/mL	99
39] CL4-BZ#46	50.508	292	20783	50.324	ng/mL	99
42] CL4-BZ#43	51.371	292	7543	20.680	ng/mL	99
44] CL4-BZ#52	51.745	292	236353	445.402	ng/mL	99
45] CL4-BZ#48	51.966	292	48754	102.513	ng/mL	99
46] CL4-BZ#49	52.325	292	121468	219.069	ng/mL	99
48] CL4-BZ#47/#65/#62	52.859	292	34538	56.866	ng/mL	99
49] CL4-BZ#75	53.065	292	3081	4.240	ng/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504024.D
Acq On : 6 May 2017 4:16 am
Operator : CJM
Sample : 17D0859-01 Inst : GCMSSV6
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: May 08 13:03:17 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
52] CL4-BZ#44	54.119	292	157424	393.973 ng/mL	98
53] CL4-BZ#59	54.554	292	14226	21.061 ng/mL	99
54] CL4-BZ#42	54.699	292	37904	96.090 ng/mL	98
55] CL4-BZ#71	55.172	292	62027	93.519 ng/mL	100
56] CL3-BZ#35	55.401	256	174	0.211 ng/mL#	63
57] CL4-BZ#41	55.531	292	19136	44.481 ng/mL	98
58] CL5-BZ#96	55.806	326	1695	2.993 ng/mL	97
59] CL4-BZ#72	56.043	292	448	0.601 ng/mL	89
60] CL5-BZ#103	56.256	326	280	0.603 ng/mL	94
61] CL4-BZ#64	56.455	292	97853	154.178 ng/mL	99
62] CL4-BZ#40/#68	56.585	292	19772m	38.358 ng/mL	
63] CL3-BZ#37	57.066	256	6255	8.290 ng/mL	99
64] CL5-BZ#100	57.165	326	120	0.276 ng/mL#	19
65] CL5-BZ#94	57.341	326	432	1.285 ng/mL#	76
66] CL4-BZ#57	57.600	292	452	0.643 ng/mL	94
67] CL4-BZ#67/#58	58.188	292	2720	3.932 ng/mL	97
68] CL5-BZ#102	58.264	326	2354	5.918 ng/mL	98
70] CL5-BZ#98	58.852	326	117	0.333 ng/mL#	17
71] CL5-BZ#93	59.058	326	698	1.931 ng/mL	86
72] CL4-BZ#76	59.119	292	1720	2.412 ng/mL	98
73] CL4-BZ#63	59.371	292	4228	5.742 ng/mL	99
74] CL5-BZ#88/#95	59.509	326	24210	56.035 ng/mL	99
76] CL4-BZ#74	59.890	292	45788	67.512 ng/mL	98
78] CL4-BZ#70	60.242	292	114670	146.270 ng/mL	91
79] CL5-BZ#91	60.478	326	5422	13.834 ng/mL	95
80] CL4-BZ#66	60.745	292	66992	92.889 ng/mL	99
82] CL4-BZ#80/#55	61.547	292	915	1.228 ng/mL	97
83] CL5-BZ#92	61.845	326	3020	7.334 ng/mL	99
84] CL5-BZ#89/#84	62.188	326	10402	28.435 ng/mL	99
85] CL4-BZ#56	62.425	292	39714	59.768 ng/mL	97
86] CL5-BZ#90/#101	62.623	326	17655	40.171 ng/mL	99
88] CL4-BZ#60	63.234	292	20492	24.640 ng/mL	94
89] CL5-BZ#99	63.272	326	9193	19.277 ng/mL	96
92] CL5-BZ#119/#83	64.295	326	1820m	3.844 ng/mL	
93] CL5-BZ#125/#112/#86	64.517	326	823m	1.756 ng/mL	
96] CL5-BZ#97	64.990	326	6728	18.867 ng/mL	99
99] CL5-BZ#116	65.677	326	228	0.417 ng/mL#	39
100] CL5-BZ#87	66.242	326	8245	20.175 ng/mL	99
102] CL6-BZ#154/#136	66.425	360	326	0.765 ng/mL	99
103] CL5-BZ#111/#117/#115	66.631	326	764	1.373 ng/mL	97
104] CL5-BZ#85	66.906	326	4156	10.033 ng/mL	98
105] CL5-BZ#120/#110	67.487	326	20591	35.331 ng/mL	99
106] CL4-BZ#81	68.158	292	105	0.146 ng/mL#	17
107] CL6-BZ#151	68.296	360	207	0.632 ng/mL	96
108] CL6-BZ#135	68.548	360	158	0.541 ng/mL#	16
109] CL5-BZ#82	68.700	326	2912	8.796 ng/mL	99
111] CL6-BZ#147/#149	69.532	360	860	2.579 ng/mL	97
112] CL4-BZ#77	69.609	292	1330	1.773 ng/mL#	81
115] CL5-BZ#124	70.296	326	484	0.812 ng/mL	98
117] CL5-BZ#123/#107	71.014	326	956	1.475 ng/mL	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504024.D
Acq On : 6 May 2017 4:16 am
Operator : CJM
Sample : 17D0859-01 Inst : GCMSSV6
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: May 08 13:03:17 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

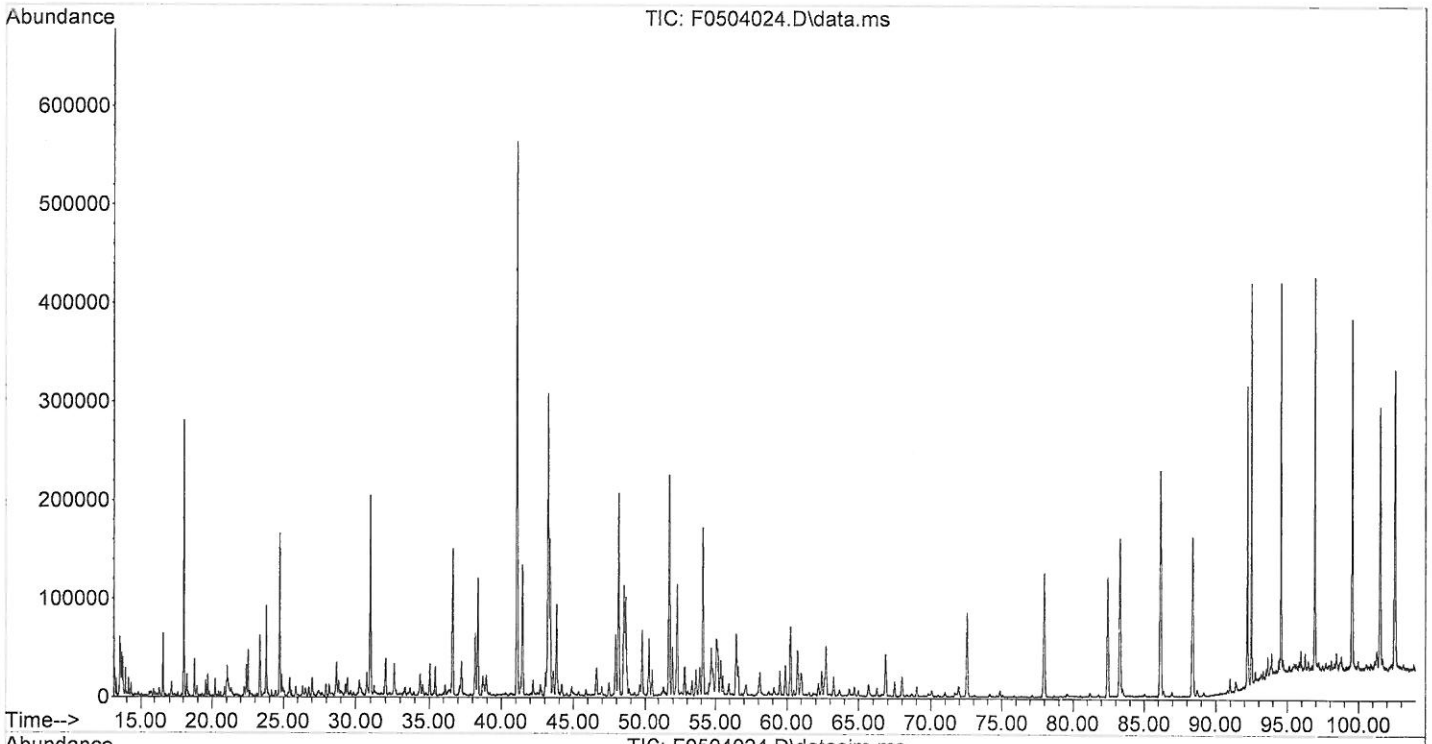
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
123] CL5-BZ#118	71.685	326	7996	15.452	ng/mL	99
126] CL6-BZ#146	72.350	360	126	0.363	ng/mL#	17
127] CL5-BZ#122	72.456	326	251	0.466	ng/mL	96
129] CL5-BZ#114	72.991	326	394	0.755	ng/mL	98
131] CL6-BZ#153	73.220	360	663	1.788	ng/mL	95
132] CL6-BZ#132	73.502	360	408	1.529	ng/mL#	81
134] CL6-BZ#141	74.693	360	153	0.504	ng/mL#	64
136] CL5-BZ#105	75.067	326	4510	6.624	ng/mL	96
142] CL6-BZ#138	76.808	360	597	1.871	ng/mL#	66
144] CL6-BZ#158	77.373	360	126	0.278	ng/mL#	64
152] CL6-BZ#128/#162	80.465	360	159	0.489	ng/mL#	69
185] CL10-BZ#209	96.841	498	348	1.738	ng/mL	99

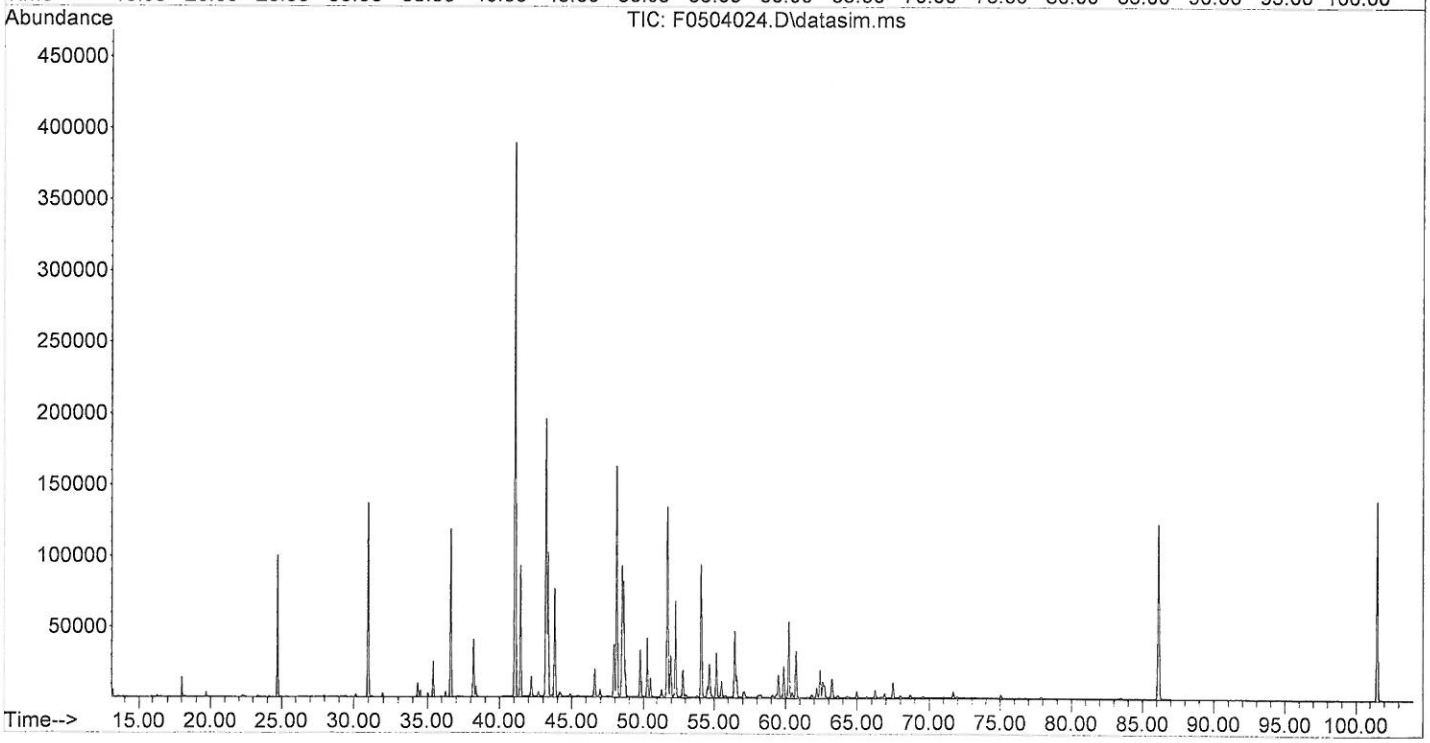
(#) = qualifier out of range (m) = manual integration (+) = signals summed

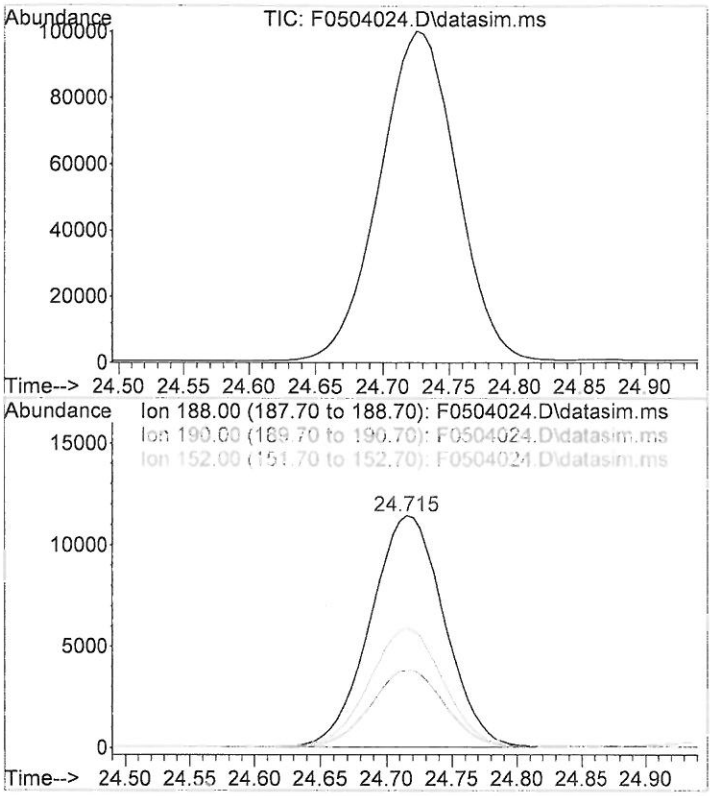
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504024.D
Acq On : 6 May 2017 4:16 am
Operator : CJM
Sample : 17D0859-01 Inst : GCMSSV6
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: May 08 13:03:17 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration



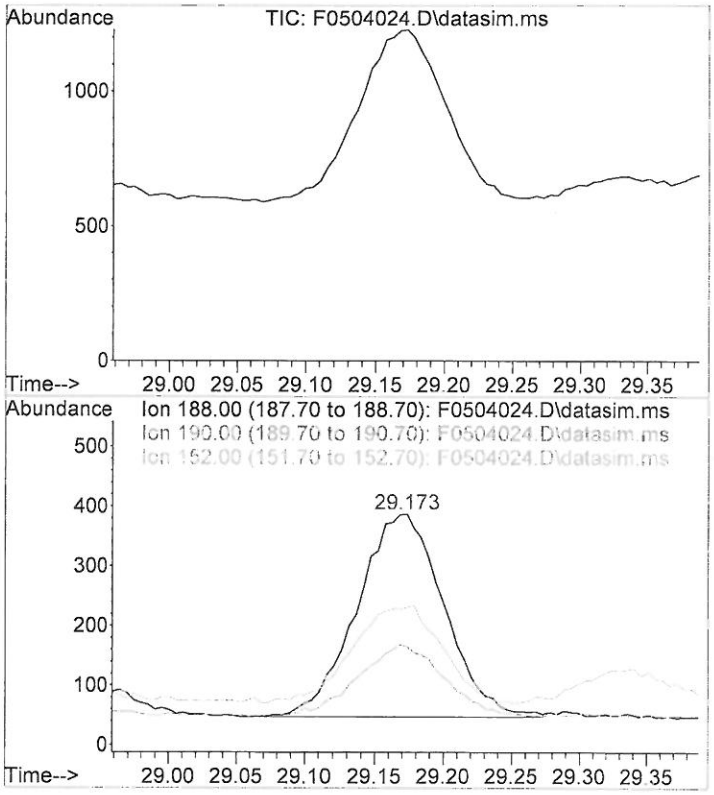




#2
CL1-BZ#1
Concen: 45.96 ng/mL
RT: 24.715 min Scan# 2220
Delta R.T. -0.005 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:188 Resp: 44653

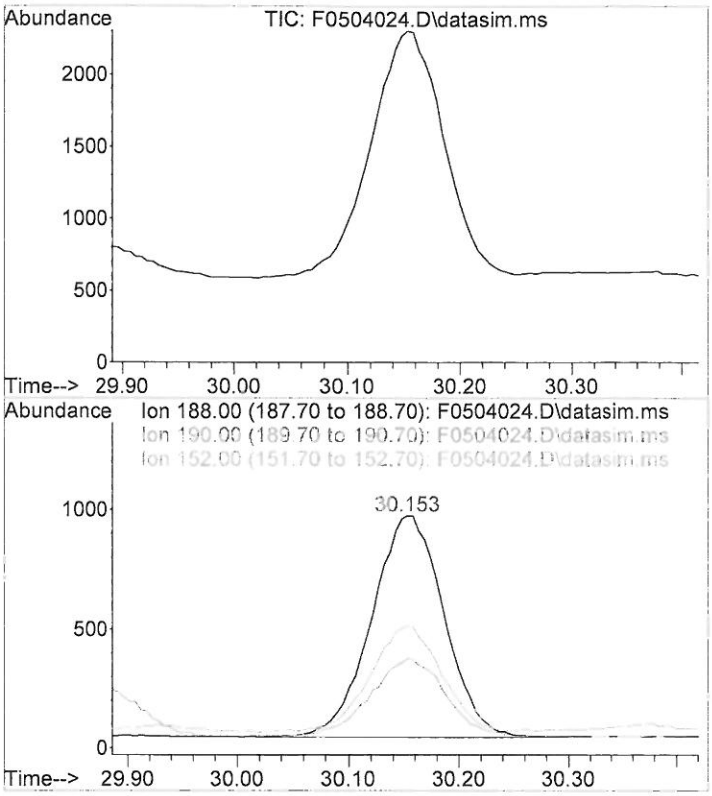
Ion	Ratio	Lower	Upper
188	100		
190	33.3	13.8	53.8
152	50.8	32.8	72.8



#3
CL1-BZ#2
Concen: 1.19 ng/mL
RT: 29.173 min Scan# 3071
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:188 Resp: 1490

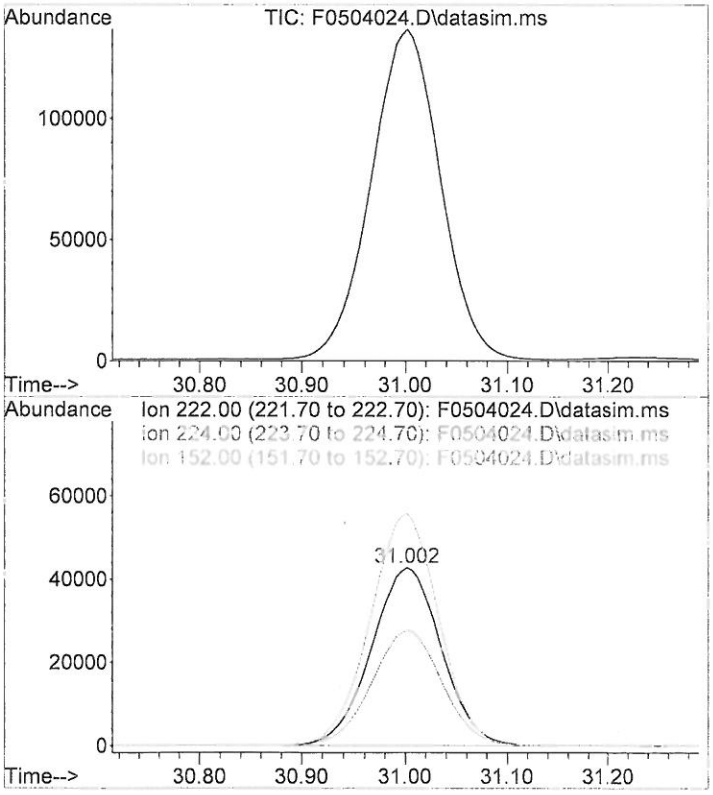
Ion	Ratio	Lower	Upper
188	100		
190	35.8	14.2	54.2
152	49.9	29.3	69.3



#4
CL1-BZ#3
Concen: 3.72 ng/mL
RT: 30.153 min Scan# 3258
Delta R.T. -0.005 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:188 Resp: 4249

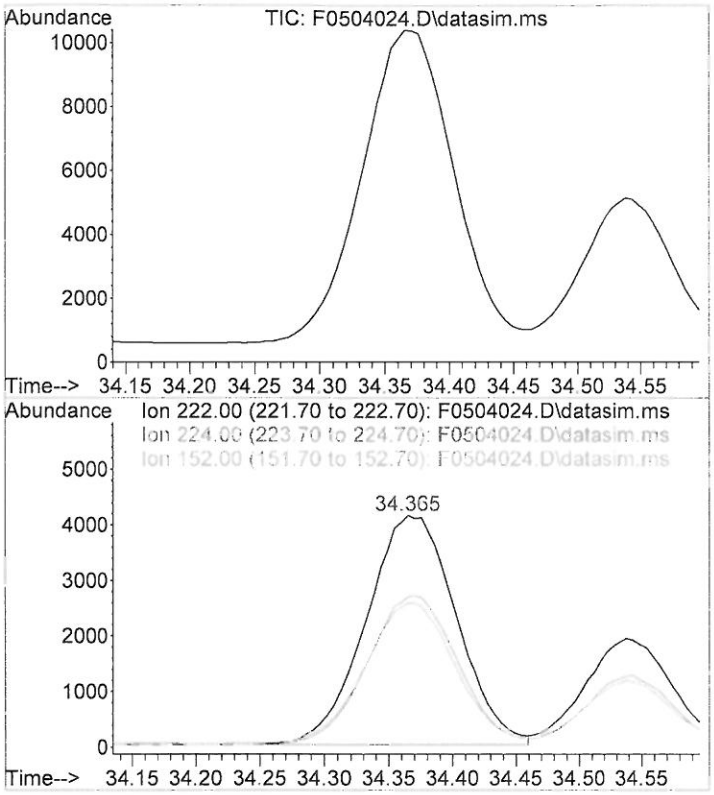
Ion	Ratio	Lower	Upper
188	100		
190	35.6	13.5	53.5
152	46.3	29.3	69.3



#5
CL2-BZ#4/#10
Concen: 270.50 ng/mL
RT: 31.002 min Scan# 3420
Delta R.T. -0.031 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 202001

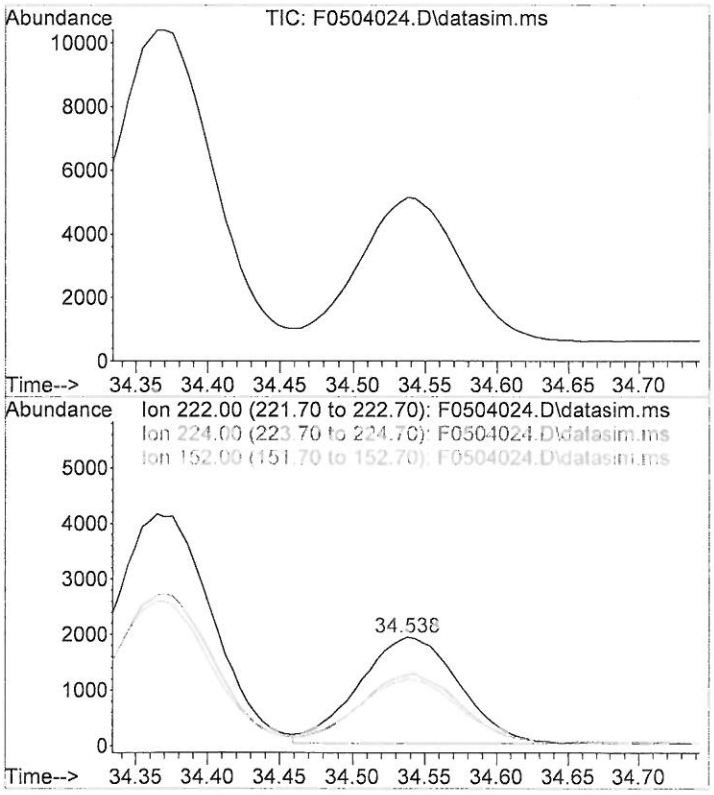
Ion	Ratio	Lower	Upper
222	100		
224	64.8	45.4	85.4
152	127.7	63.9	103.9#



#7
CL2-BZ#9
Concen: 18.94 ng/mL
RT: 34.365 min Scan# 4062
Delta R.T. -0.010 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 20250

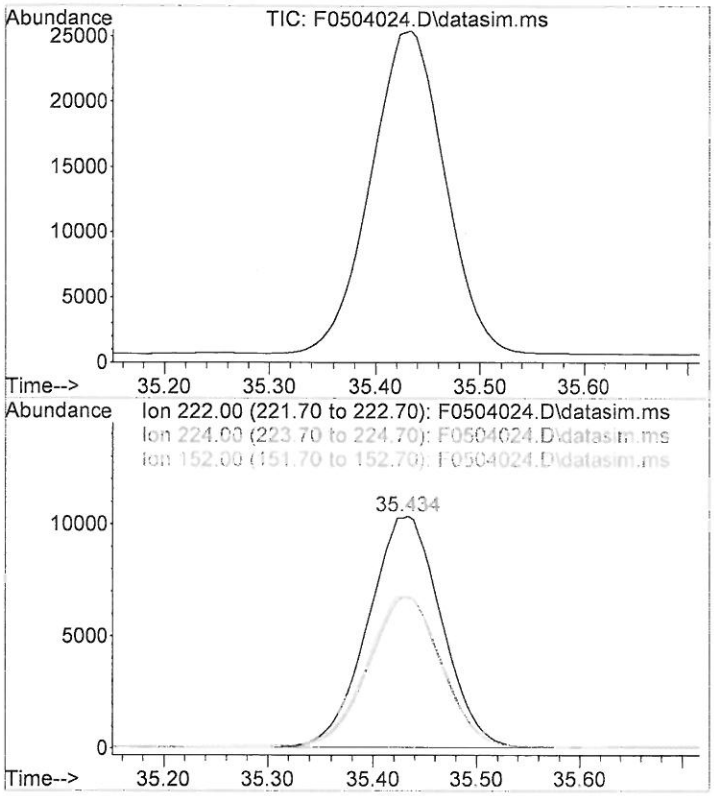
Ion	Ratio	Lower	Upper
222	100		
224	64.7	44.5	84.5
152	60.8	41.2	81.2



#8
CL2-BZ#7
Concen: 9.17 ng/mL
RT: 34.538 min Scan# 4095
Delta R.T. -0.010 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 9160

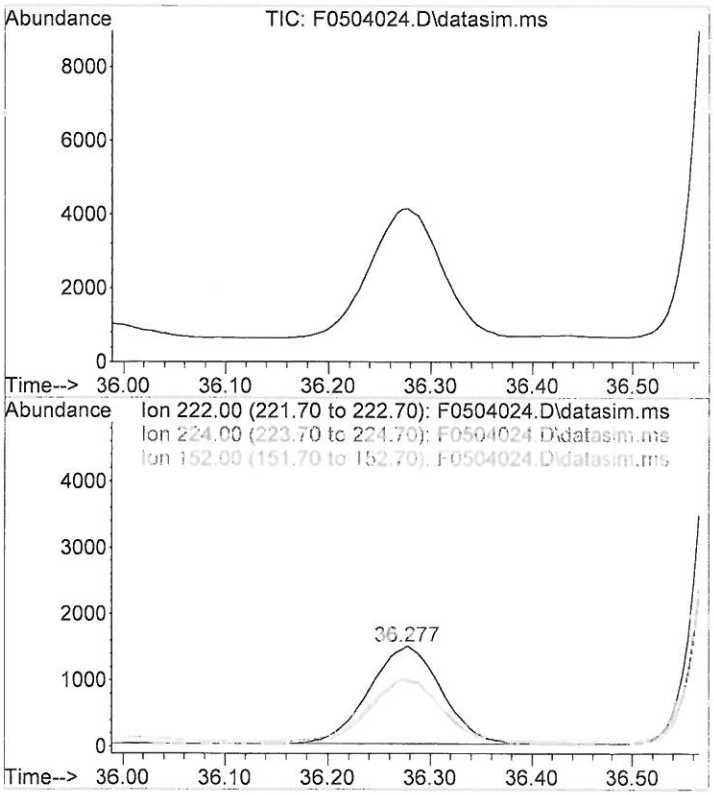
Ion	Ratio	Lower	Upper
222	100		
224	64.5	43.4	83.4
152	58.8	38.4	78.4



#9
CL2-BZ#6
Concen: 46.39 ng/mL
RT: 35.434 min Scan# 4266
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 50514

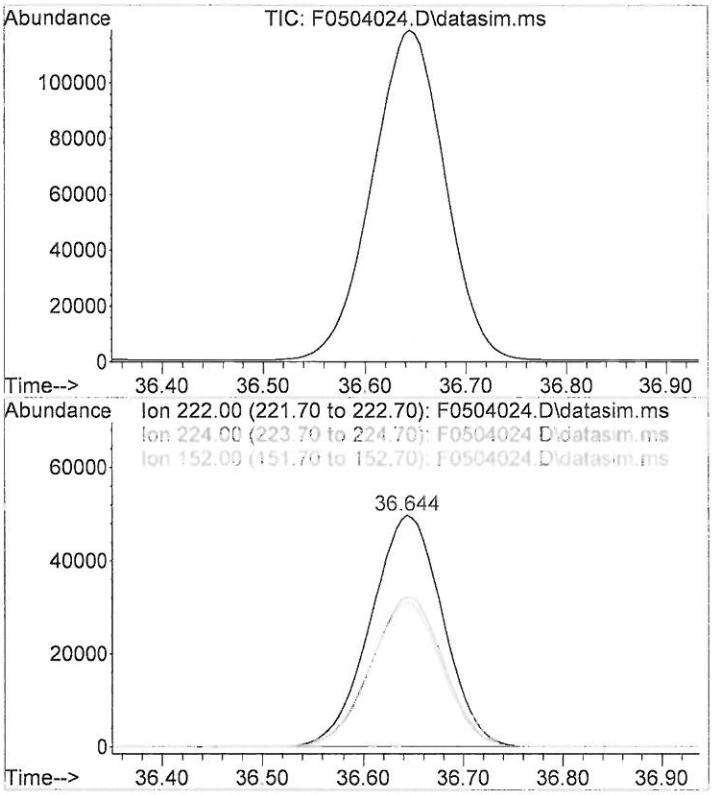
Ion	Ratio	Lower	Upper
222	100		
224	64.9	44.5	84.5
152	65.2	45.2	85.2



#10
CL2-BZ#5
Concen: 7.47 ng/mL
RT: 36.277 min Scan# 4427
Delta R.T. -0.005 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 7205

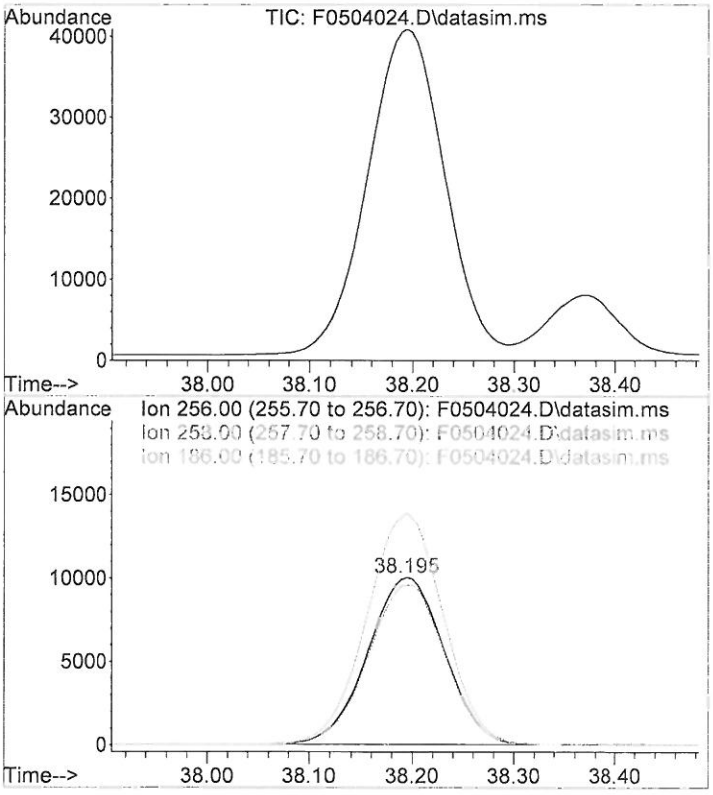
Ion	Ratio	Lower	Upper
222	100		
224	64.9	44.4	84.4
152	65.2	45.6	85.6



#11
CL2-BZ#8
Concen: 217.94 ng/mL
RT: 36.644 min Scan# 4497
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 248330

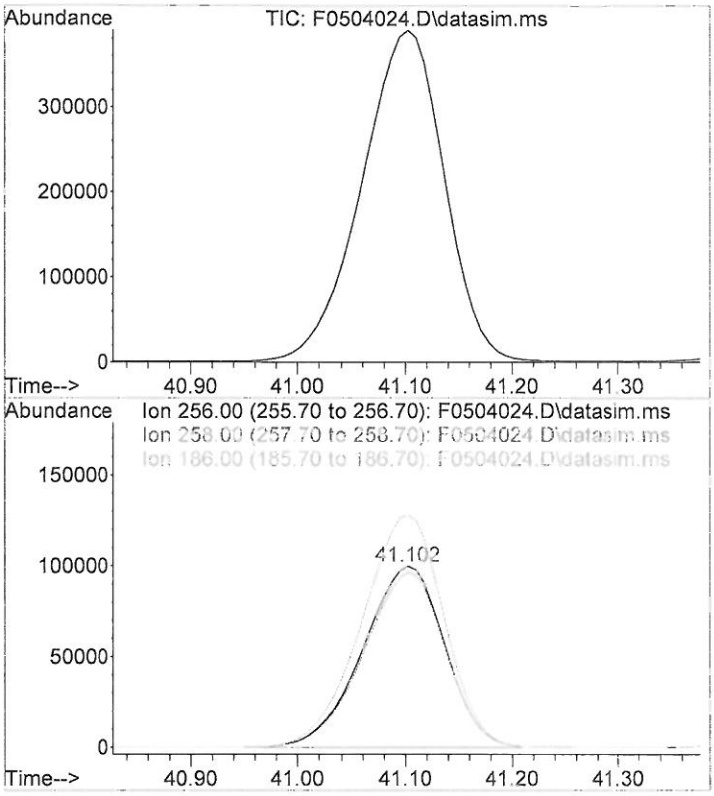
Ion	Ratio	Lower	Upper
222	100		
224	64.9	43.9	83.9
152	62.3	43.3	83.3



#12
CL3-BZ#19
Concen: 118.09 ng/mL
RT: 38.195 min Scan# 4793
Delta R.T. 0.005 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 51988

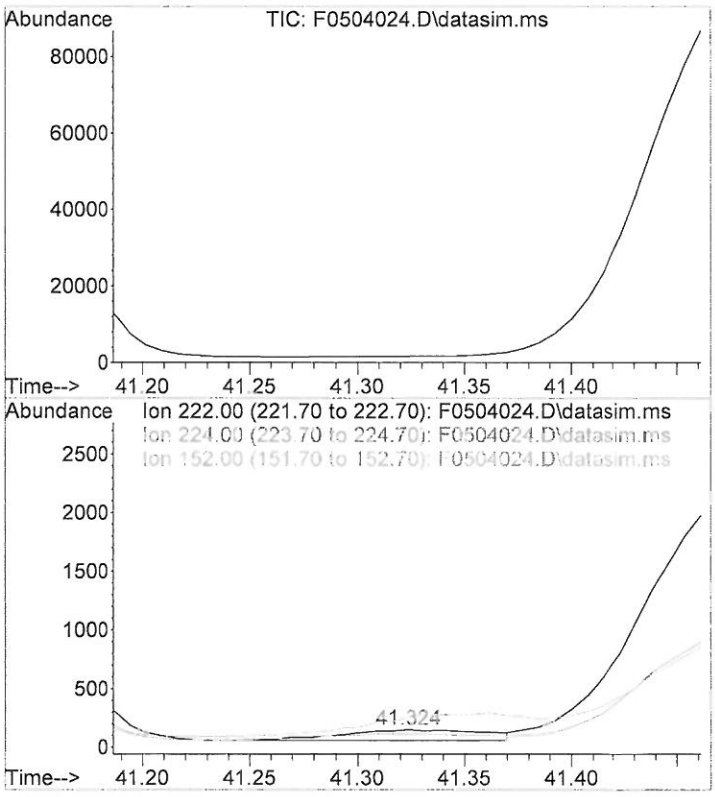
Ion	Ratio	Lower	Upper
256	100		
258	96.3	75.5	115.5
186	138.0	116.7	156.7



#15
CL3-BZ#18
Concen: 1081.44 ng/mL
RT: 41.102 min Scan# 5295
Delta R.T. 0.023 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 529524

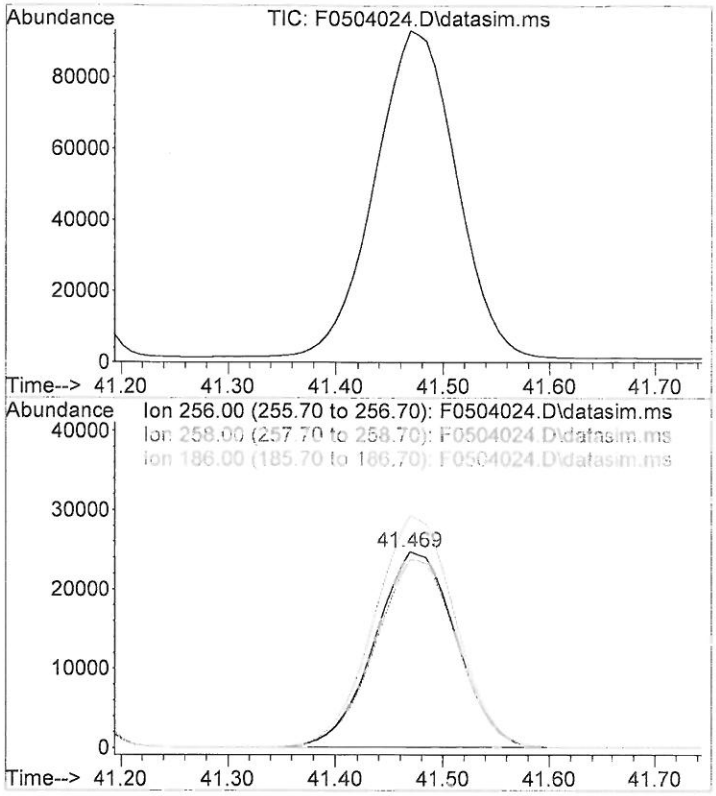
Ion	Ratio	Lower	Upper
256	100		
258	96.5	74.7	114.7
186	128.6	106.5	146.5



#16
CL2-BZ#11
Concen: 0.38 ng/mL
RT: 41.324 min Scan# 5324
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 430

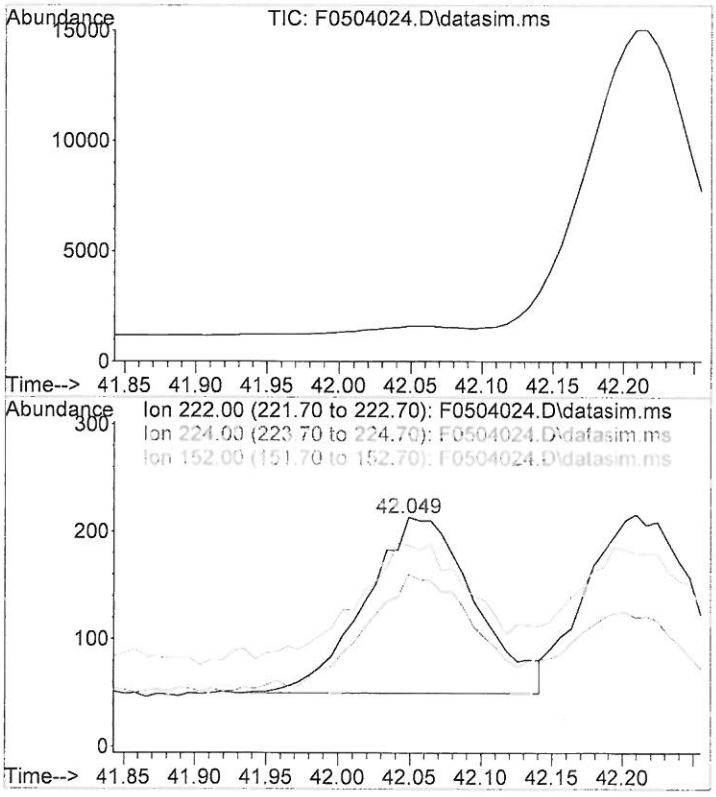
Ion	Ratio	Lower	Upper
222	100		
224	59.5	44.2	84.2
152	236.7	40.5	80.5#



#17
CL3-BZ#17
Concen: 235.59 ng/mL
RT: 41.469 min Scan# 5343
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 129872

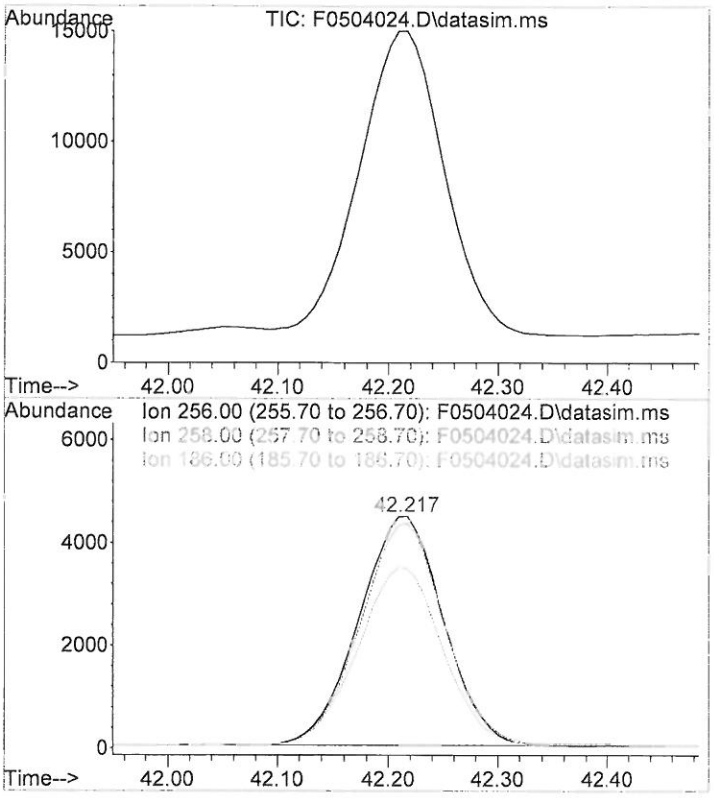
Ion	Ratio	Lower	Upper
256	100		
258	96.4	74.0	114.0
186	118.0	94.6	134.6



#18
CL2-BZ#12
Concen: 0.83 ng/mL
RT: 42.049 min Scan# 5419
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 858

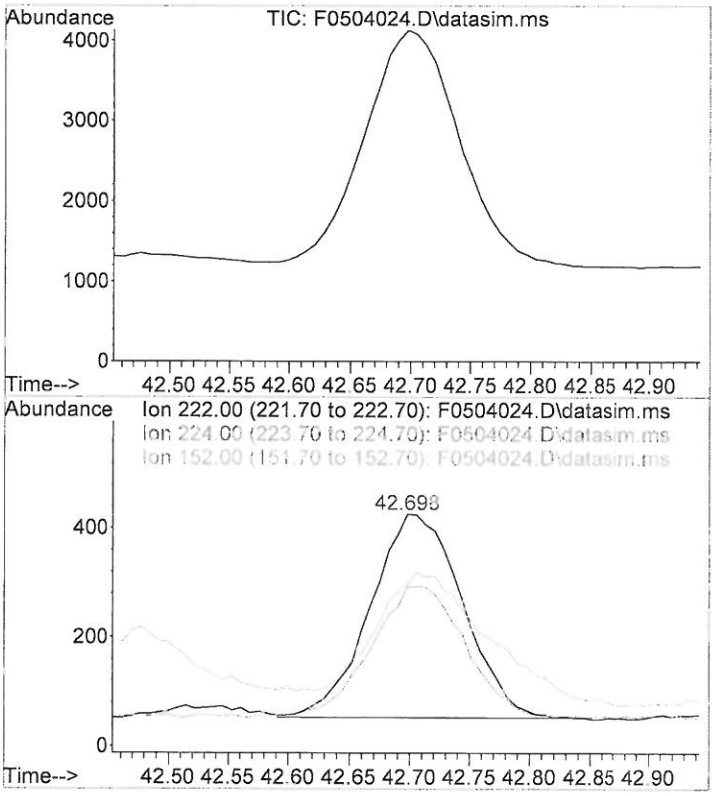
Ion	Ratio	Lower	Upper
222	100		
224	60.3	45.1	85.1
152	66.8	37.2	77.2



#19
CL3-BZ#27
Concen: 29.76 ng/mL
RT: 42.217 min Scan# 5441
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 23797

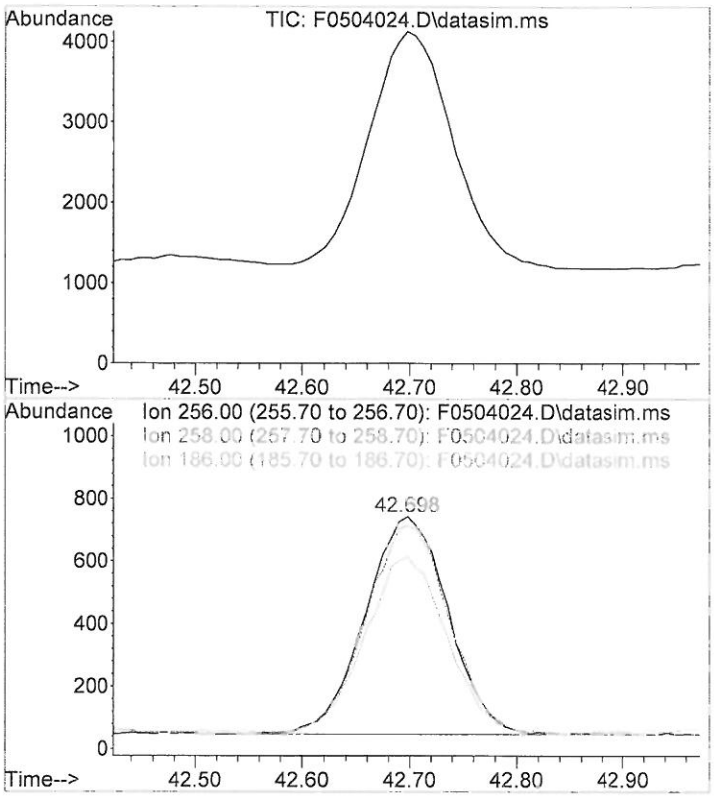
Ion	Ratio	Lower	Upper
256	100		
258	97.5	75.9	115.9
186	77.0	58.7	98.7



#20
CL2-BZ#13
Concen: 1.72 ng/mL
RT: 42.698 min Scan# 5504
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 1985

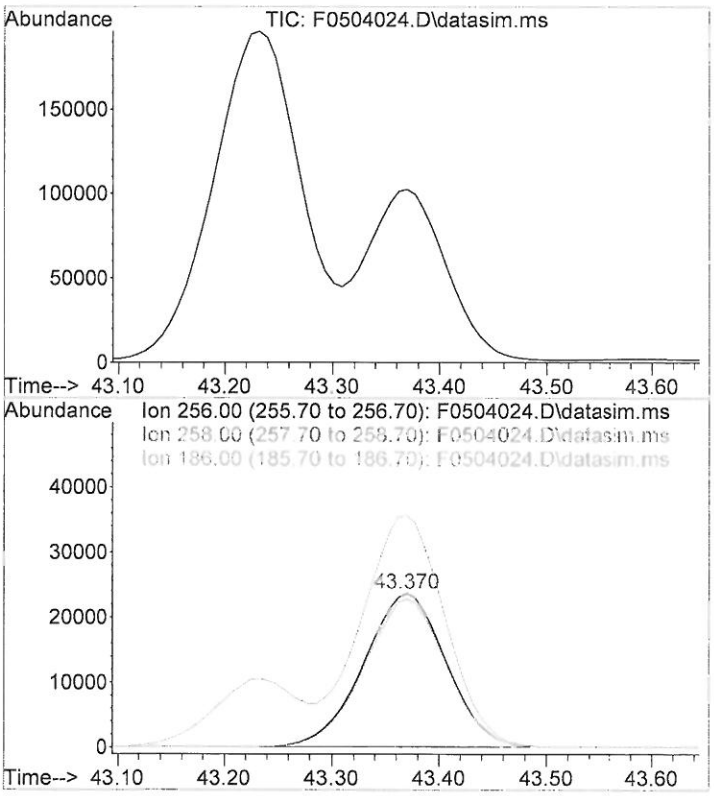
Ion	Ratio	Lower	Upper
222	100		
224	64.2	43.4	83.4
152	70.2	37.7	77.7



#21
CL3-BZ#24
Concen: 5.30 ng/mL
RT: 42.698 min Scan# 5504
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 3762

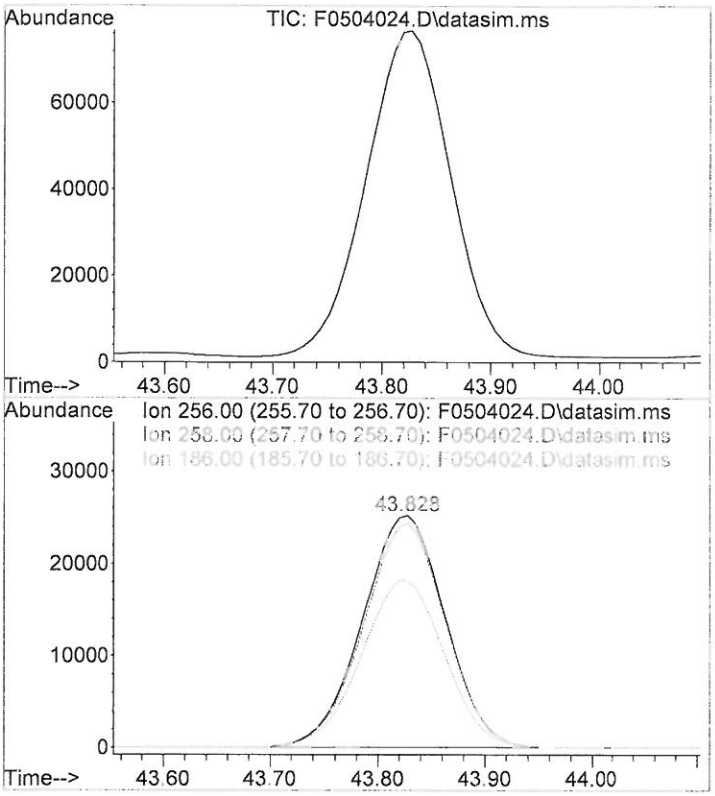
Ion	Ratio	Lower	Upper
256	100		
258	96.4	78.1	118.1
186	79.0	66.5	106.5



#22
CL3-BZ#16
Concen: 297.92 ng/mL
RT: 43.370 min Scan# 5592
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 126390

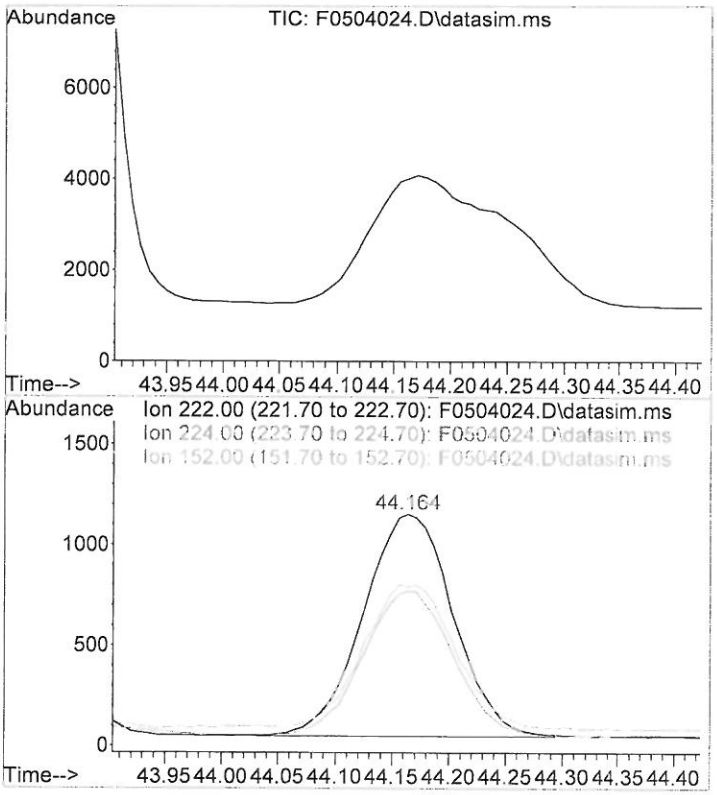
Ion	Ratio	Lower	Upper
256	100		
258	96.3	71.7	111.7
186	150.7	155.4	195.4#



#23
CL3-BZ#32
Concen: 156.74 ng/mL
RT: 43.828 min Scan# 5652
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 135073

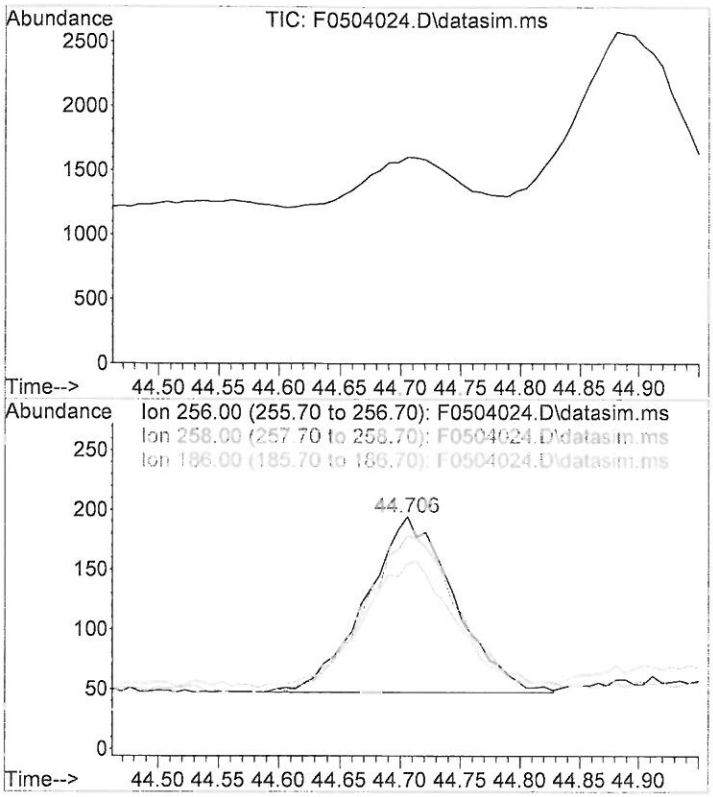
Ion	Ratio	Lower	Upper
256	100		
258	96.1	74.8	114.8
186	72.2	52.6	92.6



#24
CL2-BZ#15
Concen: 5.74 ng/mL
RT: 44.164 min Scan# 5696
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:222 Resp: 6100

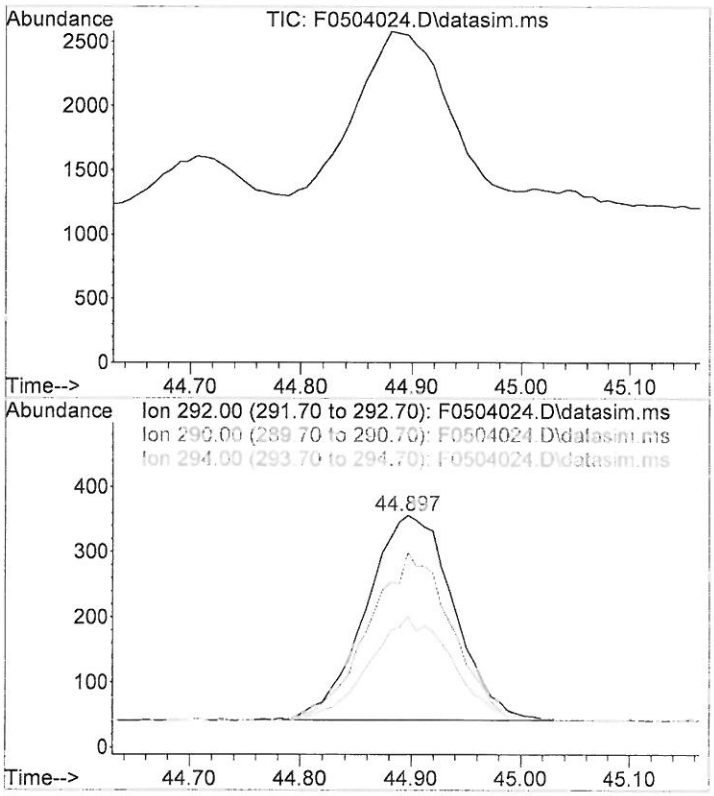
Ion	Ratio	Lower	Upper
222	100		
224	64.6	44.3	84.3
152	66.1	37.4	77.4



#25
CL3-BZ#34
Concen: 0.90 ng/mL
RT: 44.706 min Scan# 5767
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 753

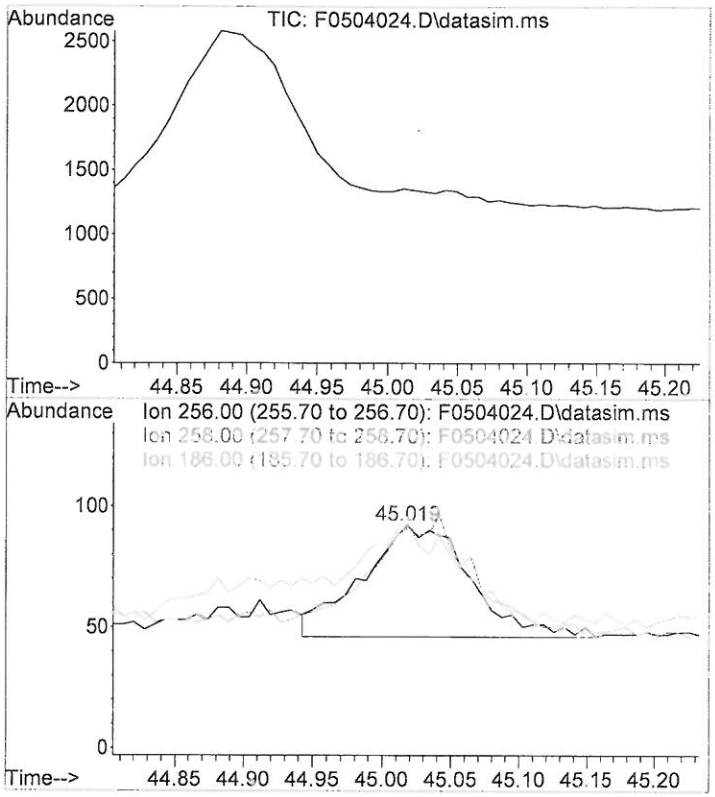
Ion	Ratio	Lower	Upper
256	100		
258	96.0	75.3	115.3
186	75.3	52.5	92.5



#26
CL4-BZ#54
Concen: 2.78 ng/mL
RT: 44.897 min Scan# 5792
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 1734

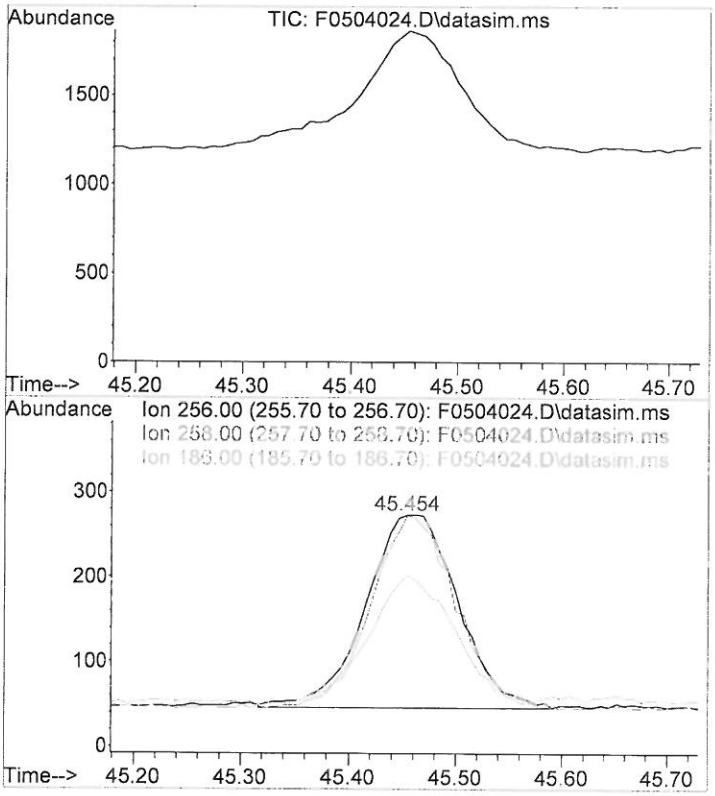
Ion	Ratio	Lower	Upper
292	100		
290	78.3	57.2	97.2
294	48.3	28.2	68.2



#27
CL3-BZ#23
Concen: 0.33 ng/mL
RT: 45.019 min Scan# 5808
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 251

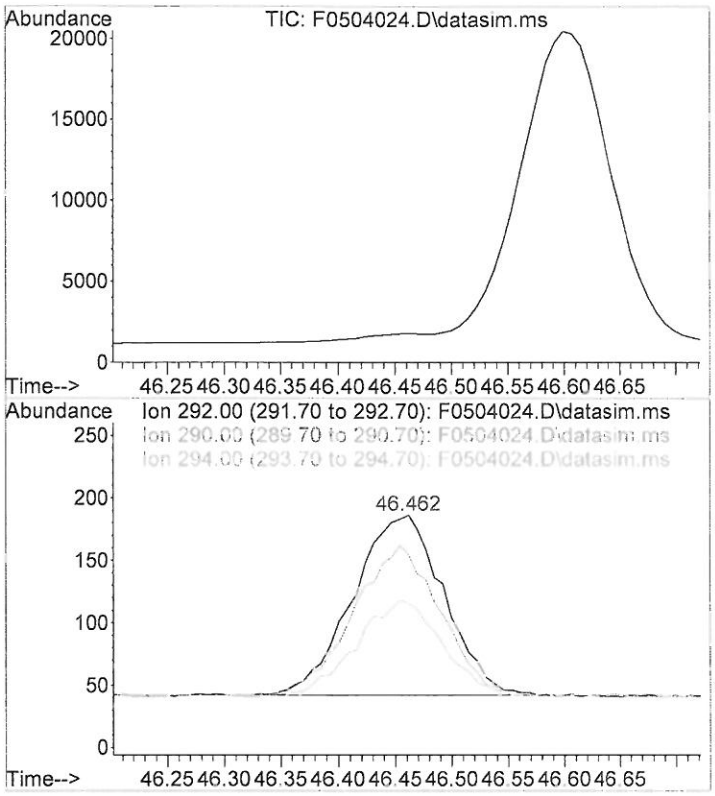
Ion	Ratio	Lower	Upper
256	100		
258	86.9	77.1	117.1
186	76.1	52.7	92.7



#28
CL3-BZ#29
Concen: 1.59 ng/mL
RT: 45.454 min Scan# 5865
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 1354

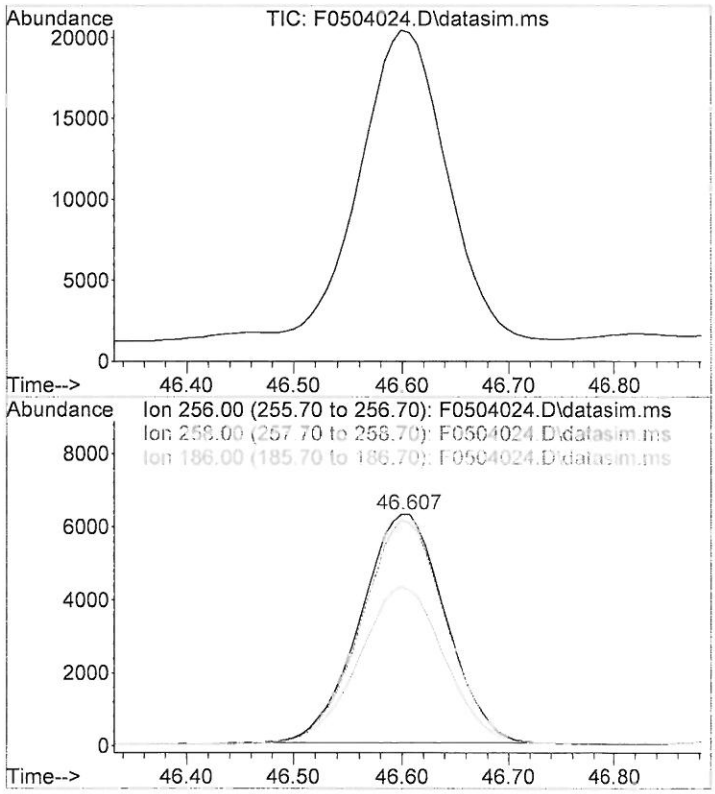
Ion	Ratio	Lower	Upper
256	100		
258	91.3	79.5	119.5
186	64.5	46.4	86.4



#29
CL4-BZ#50
Concen: 1.55 ng/mL
RT: 46.462 min Scan# 5997
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 797

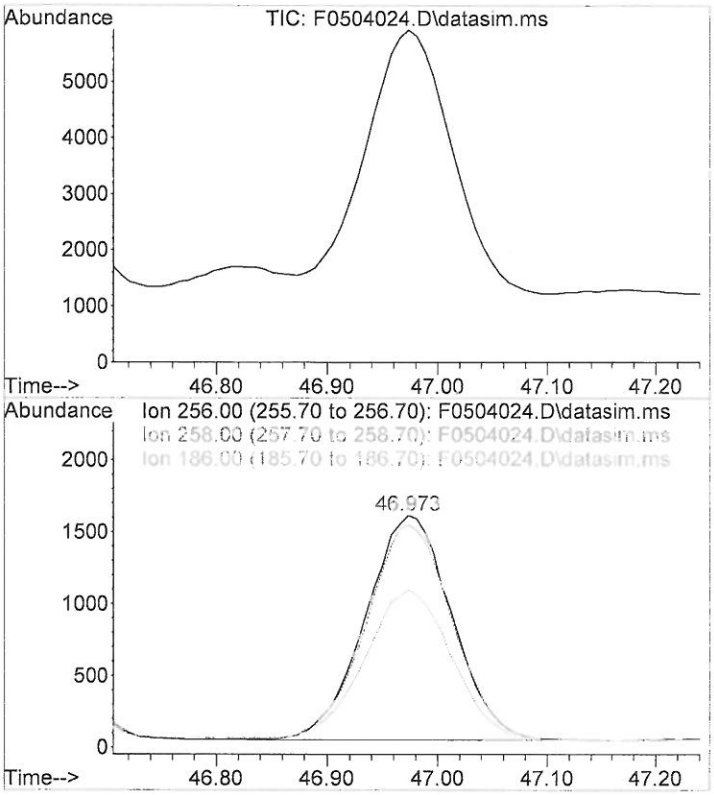
Ion	Ratio	Lower	Upper
292	100		
290	81.2	58.6	98.6
294	50.7	30.4	70.4



#30
CL3-BZ#26
Concen: 40.82 ng/mL
RT: 46.607 min Scan# 6016
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 34678

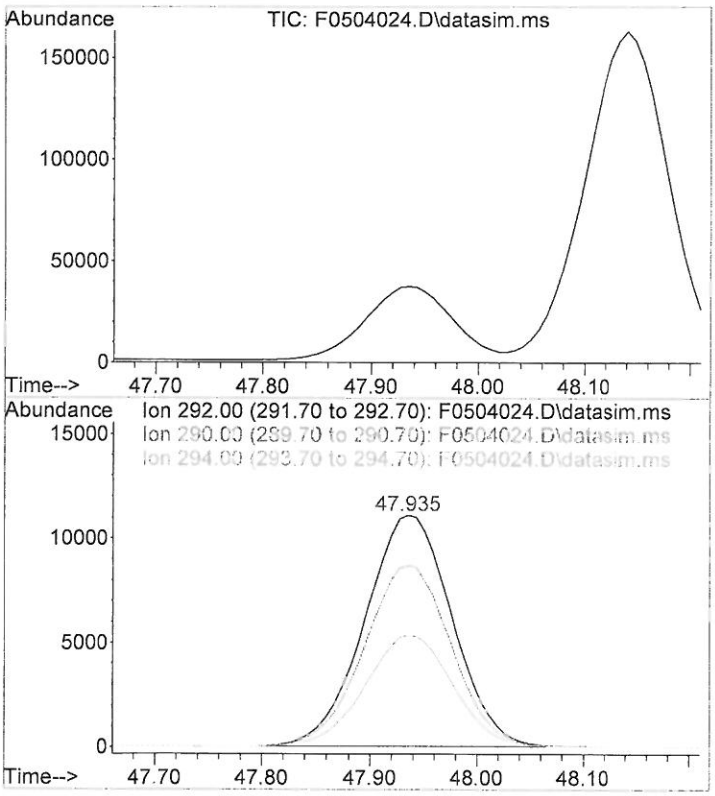
Ion	Ratio	Lower	Upper
256	100		
258	96.8	76.3	116.3
186	67.8	47.2	87.2



#31
CL3-BZ#25
Concen: 11.19 ng/mL
RT: 46.973 min Scan# 6064
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 8509

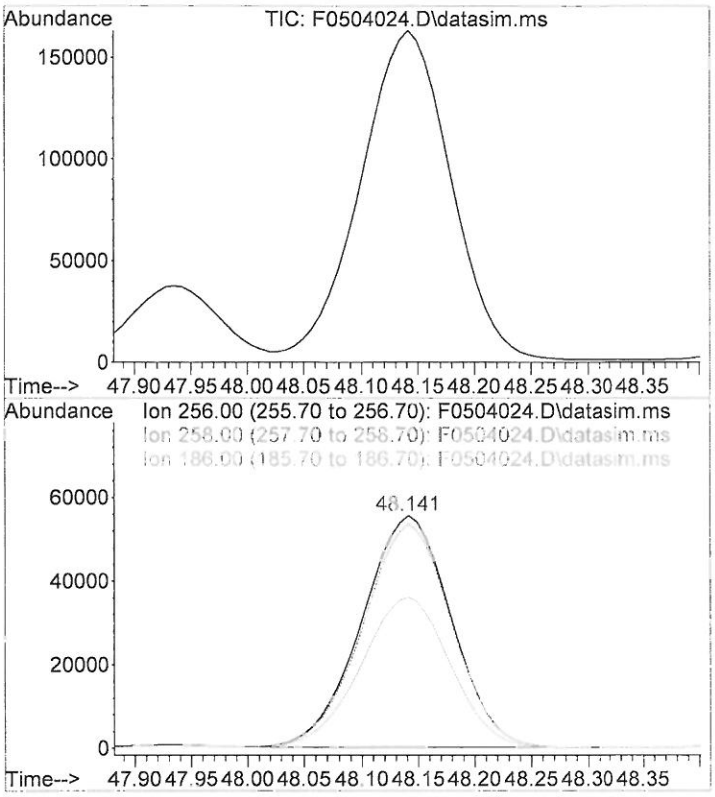
Ion	Ratio	Lower	Upper
256	100		
258	95.5	76.0	116.0
186	66.6	49.6	89.6



#32
CL4-BZ#53
Concen: 132.52 ng/mL
RT: 47.935 min Scan# 6190
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 62408

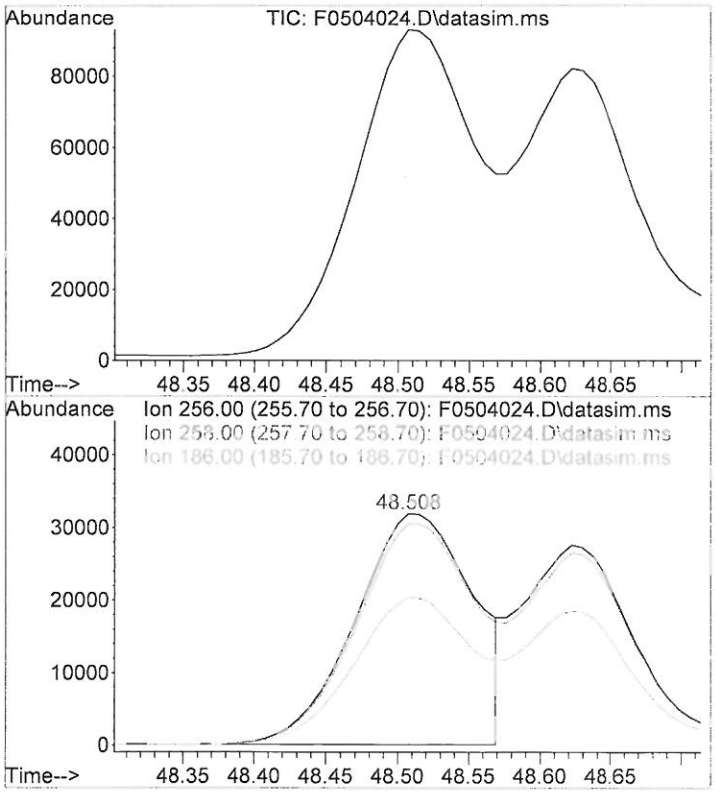
Ion	Ratio	Lower	Upper
292	100		
290	78.2	57.6	97.6
294	48.2	29.4	69.4



#33
CL3-BZ#31
Concen: 343.95 ng/mL
RT: 48.141 min Scan# 6217
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 303567

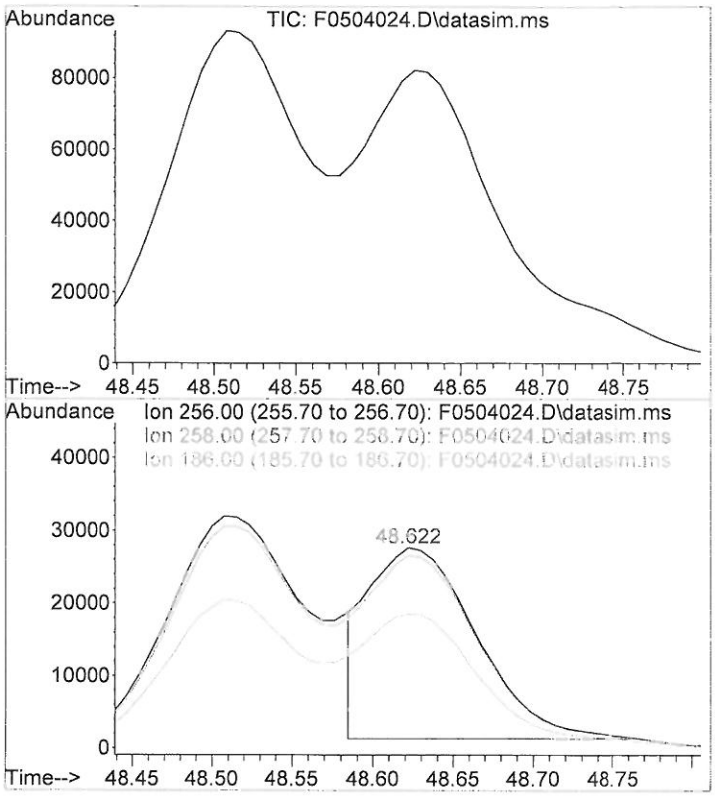
Ion	Ratio	Lower	Upper
256	100		
258	96.5	76.4	116.4
186	64.8	46.5	86.5



#34
CL3-BZ#28
Concen: 213.09 ng/mL
RT: 48.508 min Scan# 6265
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 179825

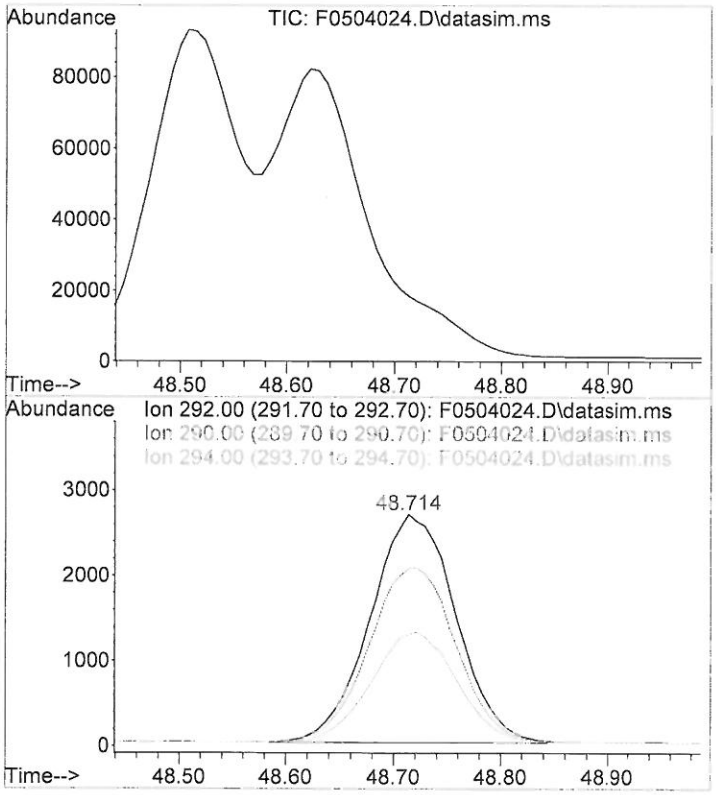
Ion	Ratio	Lower	Upper
256	100		
258	100.1	76.6	116.6
186	64.6	45.9	85.9



#35
CL3-BZ#33/#21/#20
Concen: 152.93 ng/mL
RT: 48.622 min Scan# 6280
Delta R.T. -0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 124284

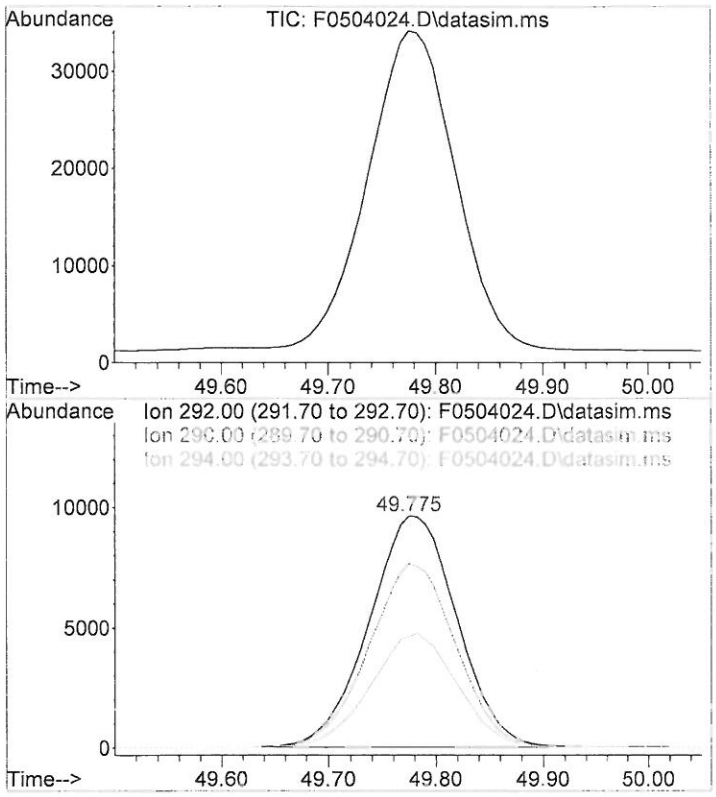
Ion	Ratio	Lower	Upper
256	100		
258	97.0	77.9	117.9
186	67.4	48.4	88.4



#36
CL4-BZ#51
Concen: 29.62 ng/mL
RT: 48.714 min Scan# 6292
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 14822

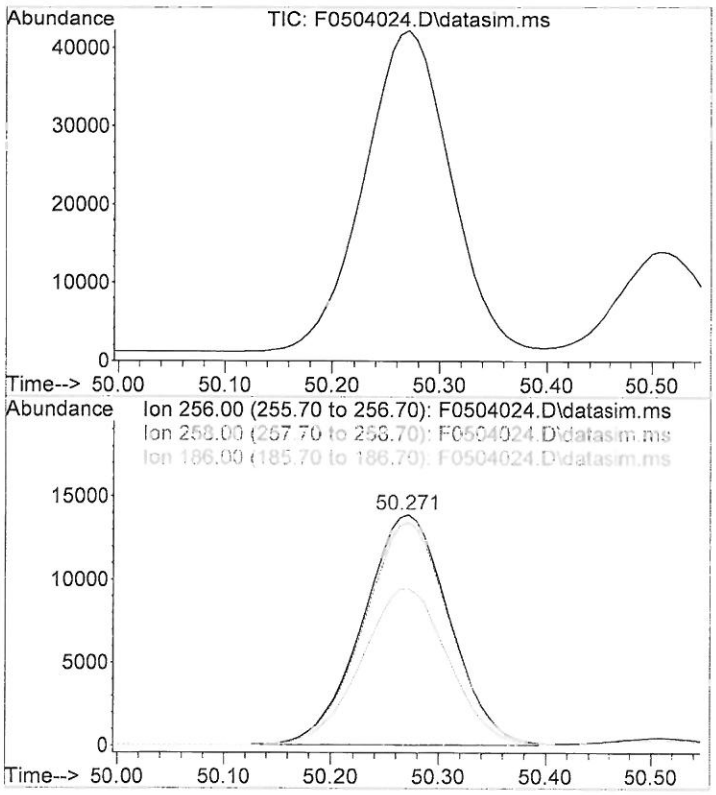
Ion	Ratio	Lower	Upper
292	100		
290	78.0	60.8	100.8
294	48.4	28.8	68.8



#37
CL4-BZ#45
Concen: 122.17 ng/mL
RT: 49.775 min Scan# 6431
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 54771

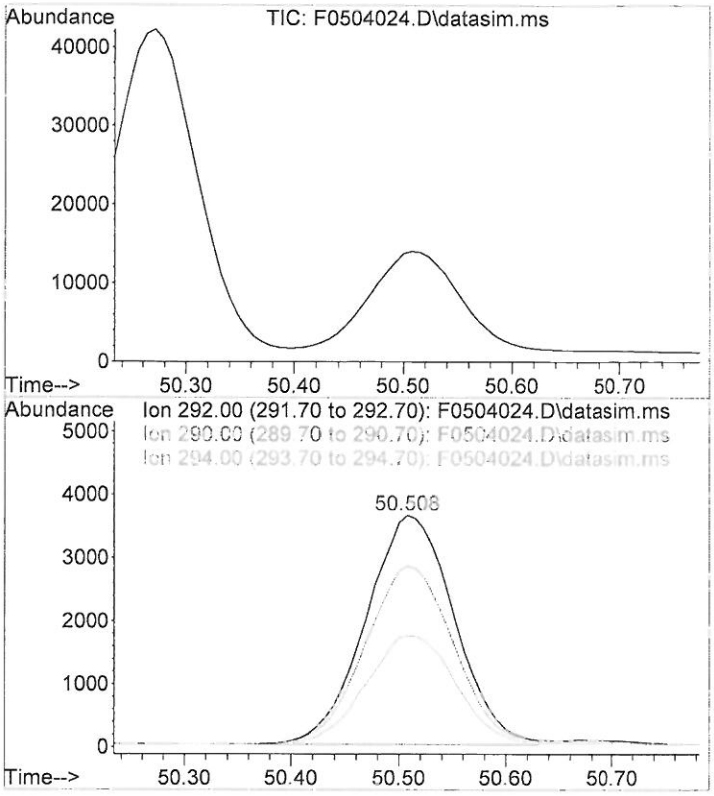
Ion	Ratio	Lower	Upper
292	100		
290	78.5	58.6	98.6
294	48.4	29.4	69.4



#38
CL3-BZ#22
Concen: 101.87 ng/mL
RT: 50.271 min Scan# 6496
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 77612

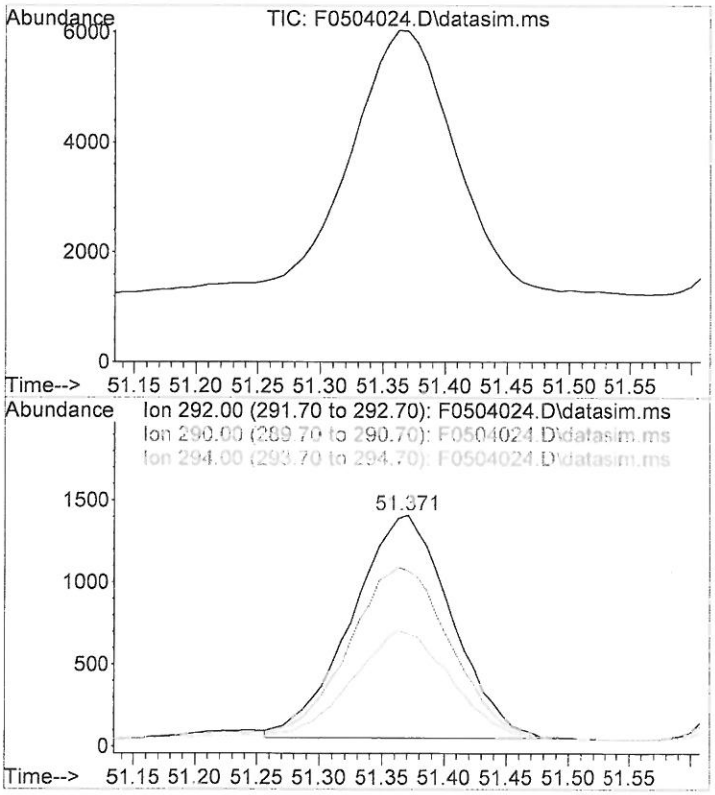
Ion	Ratio	Lower	Upper
256	100		
258	96.5	77.3	117.3
186	68.0	49.8	89.8



#39
CL4-BZ#46
Concen: 50.32 ng/mL
RT: 50.508 min Scan# 6527
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 20783

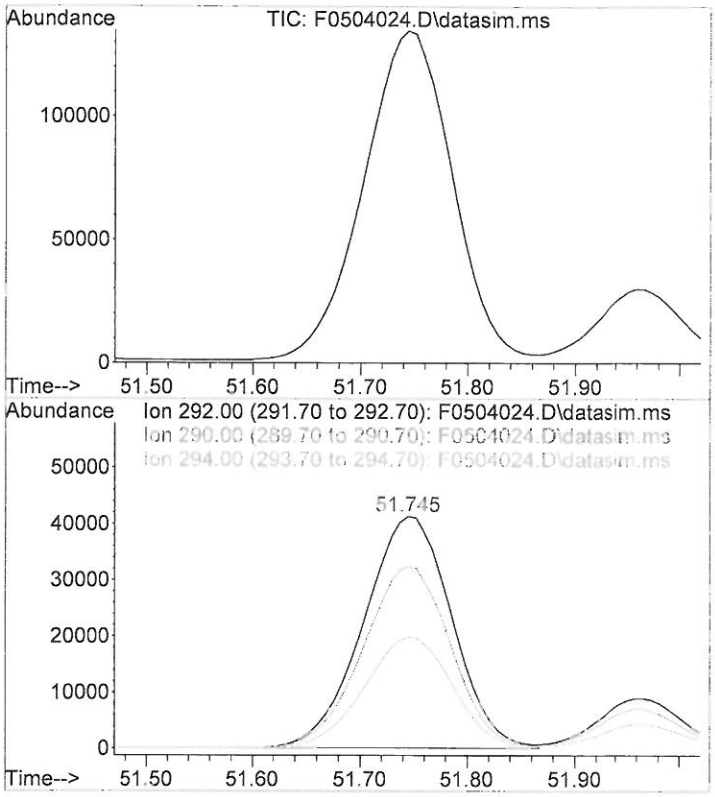
Ion	Ratio	Lower	Upper
292	100		
290	78.4	59.4	99.4
294	48.4	28.6	68.6



#42
CL4-BZ#43
Concen: 20.68 ng/mL
RT: 51.371 min Scan# 6640
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 7543

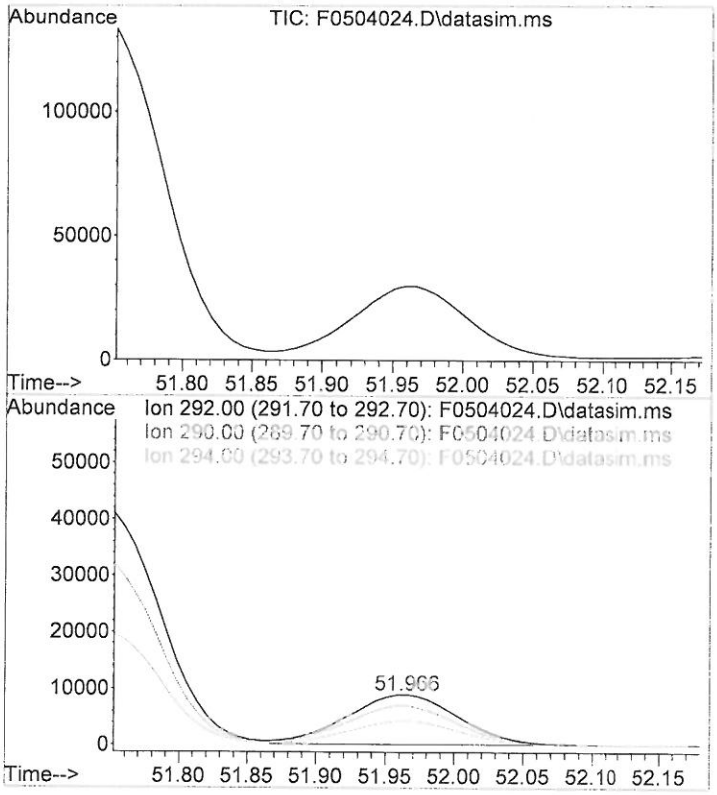
Ion	Ratio	Lower	Upper
292	100		
290	78.9	59.4	99.4
294	48.3	29.3	69.3



#44
CL4-BZ#52
Concen: 445.40 ng/mL
RT: 51.745 min Scan# 6689
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 236353

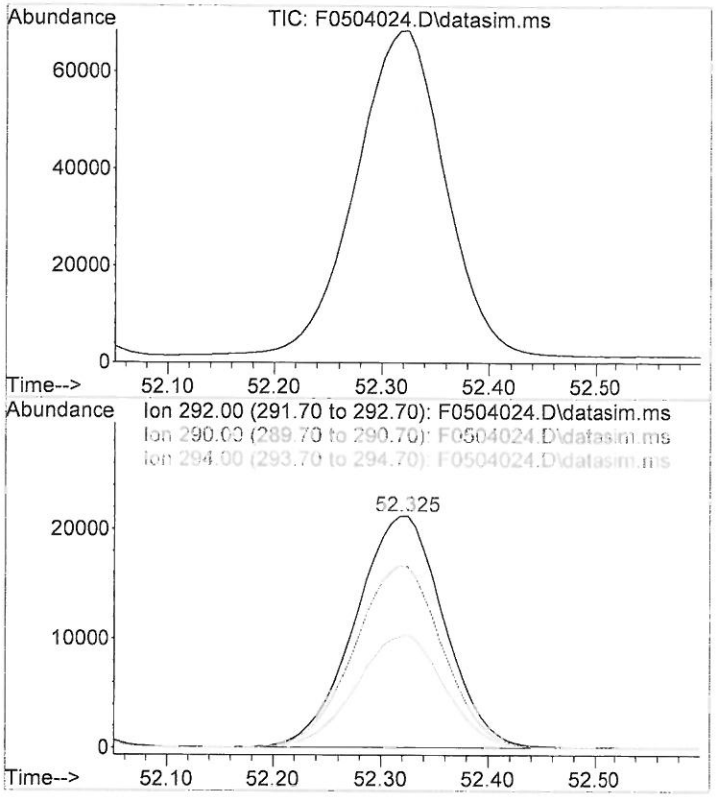
Ion	Ratio	Lower	Upper
292	100		
290	78.3	58.5	98.5
294	48.0	30.1	70.1



#45
CL4-BZ#48
Concen: 102.51 ng/mL
RT: 51.966 min Scan# 6718
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 48754

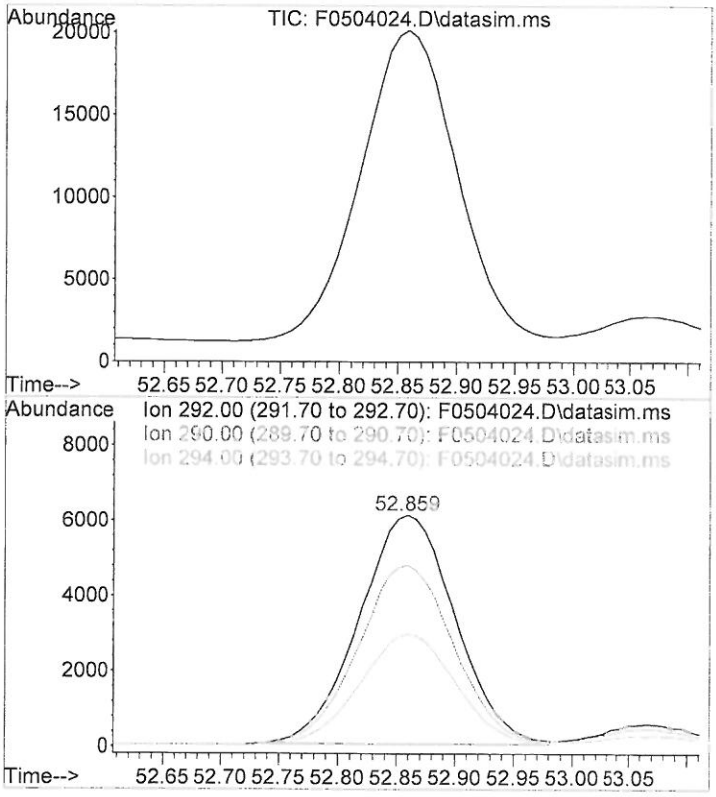
Ion	Ratio	Lower	Upper
292	100		
290	78.9	58.9	98.9
294	48.1	30.2	70.2



#46
CL4-BZ#49
Concen: 219.07 ng/mL
RT: 52.325 min Scan# 6765
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 121468

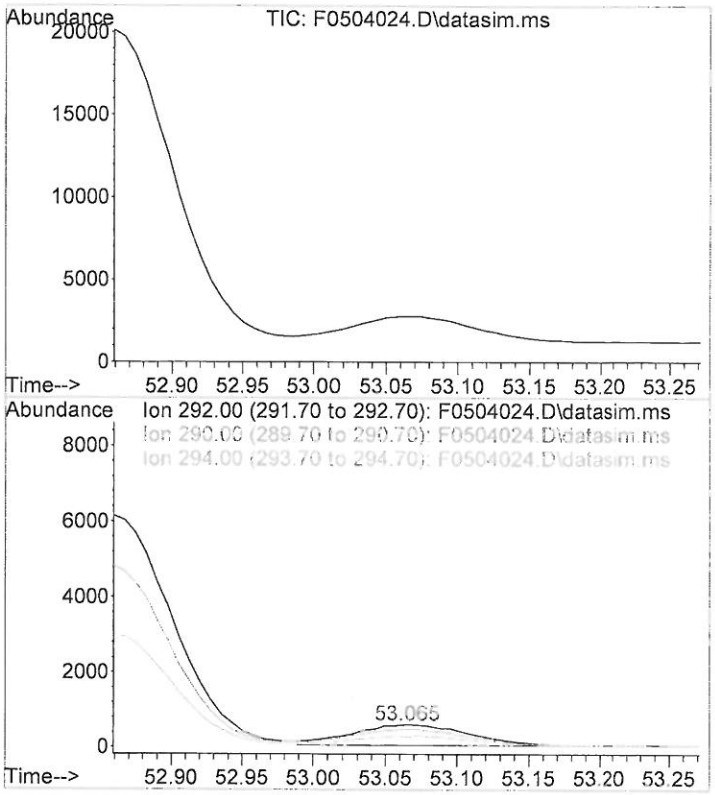
Ion	Ratio	Lower	Upper
292	100		
290	78.3	59.6	99.6
294	48.3	27.9	67.9



#48
CL4-BZ#47/#65/#62
Concen: 56.87 ng/mL
RT: 52.359 min Scan# 6835
Delta R.T. -0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 34538

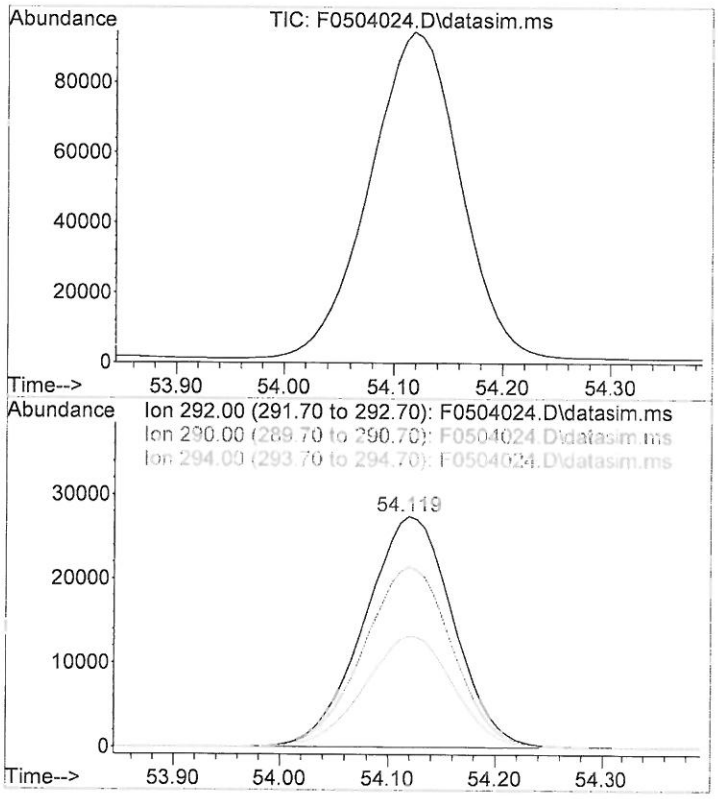
Ion	Ratio	Lower	Upper
292	100		
290	78.2	59.0	99.0
294	48.1	29.1	69.1



#49
CL4-BZ#75
Concen: 4.24 ng/mL
RT: 53.065 min Scan# 6862
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 3081

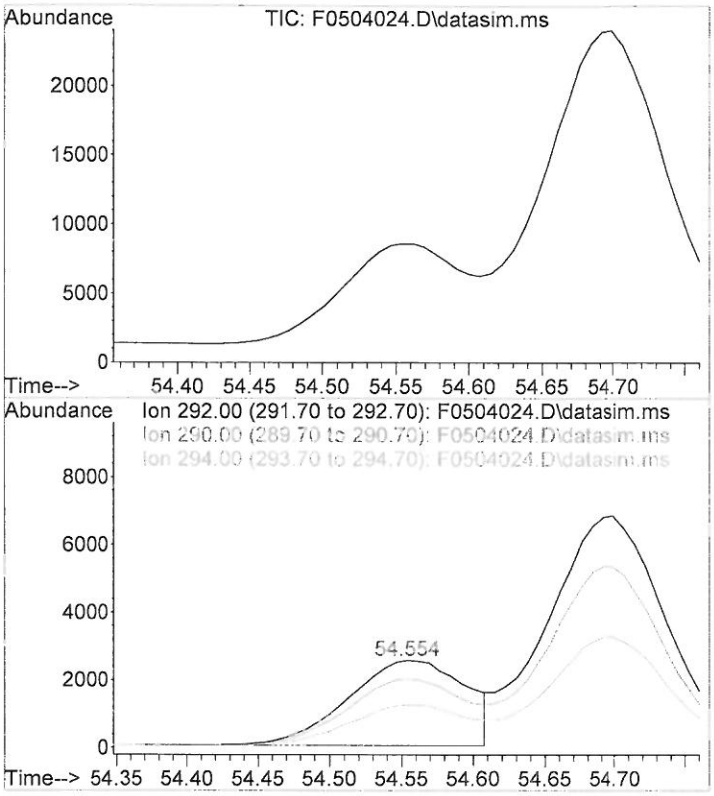
Ion	Ratio	Lower	Upper
292	100		
290	79.0	57.7	97.7
294	47.8	29.0	69.0



#52
CL4-BZ#44
Concen: 393.97 ng/mL
RT: 54.119 min Scan# 7000
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 157424

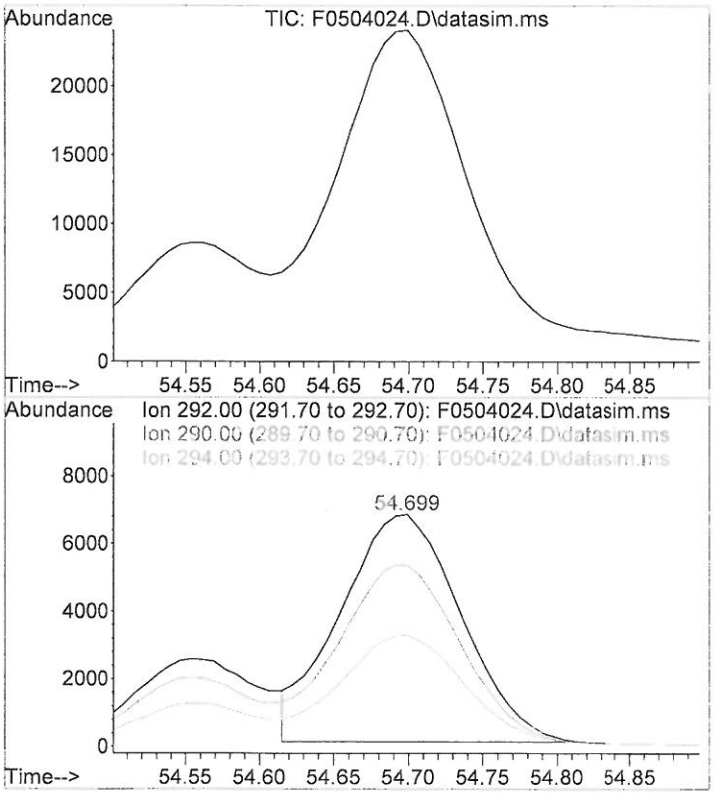
Ion	Ratio	Lower	Upper
292	100		
290	78.2	59.0	99.0
294	48.2	30.6	70.6



#53
CL4-BZ#59
Concen: 21.06 ng/mL
RT: 54.554 min Scan# 7057
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 14226

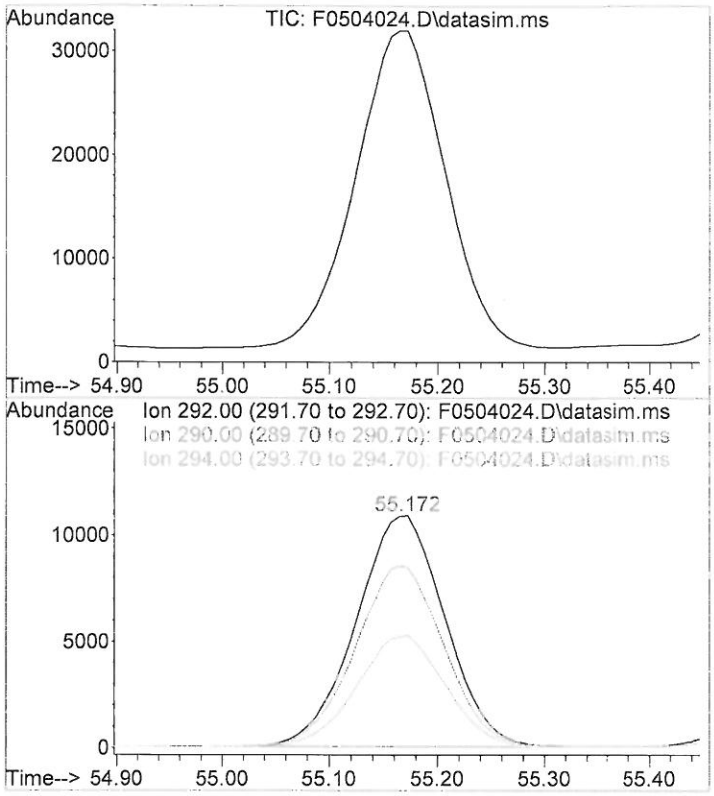
Ion	Ratio	Lower	Upper
292	100		
290	78.3	58.4	98.4
294	47.9	29.6	69.6



#54
CL4-BZ#42
Concen: 96.09 ng/mL
RT: 54.699 min Scan# 7076
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 37904

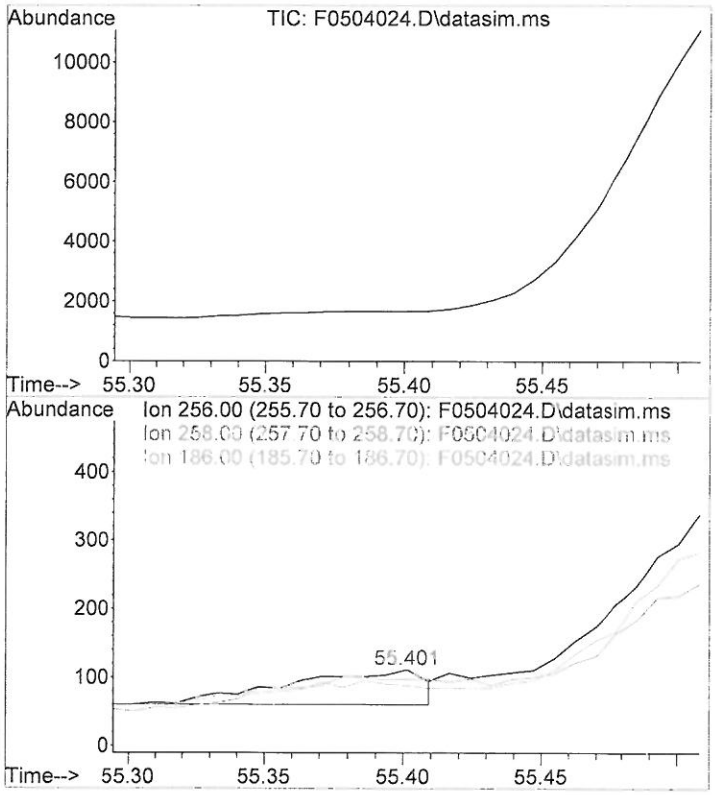
Ion	Ratio	Lower	Upper
292	100		
290	78.1	58.8	98.8
294	47.6	29.4	69.4



#55
CL4-BZ#71
Concen: 93.52 ng/mL
RT: 55.172 min Scan# 7138
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 62027

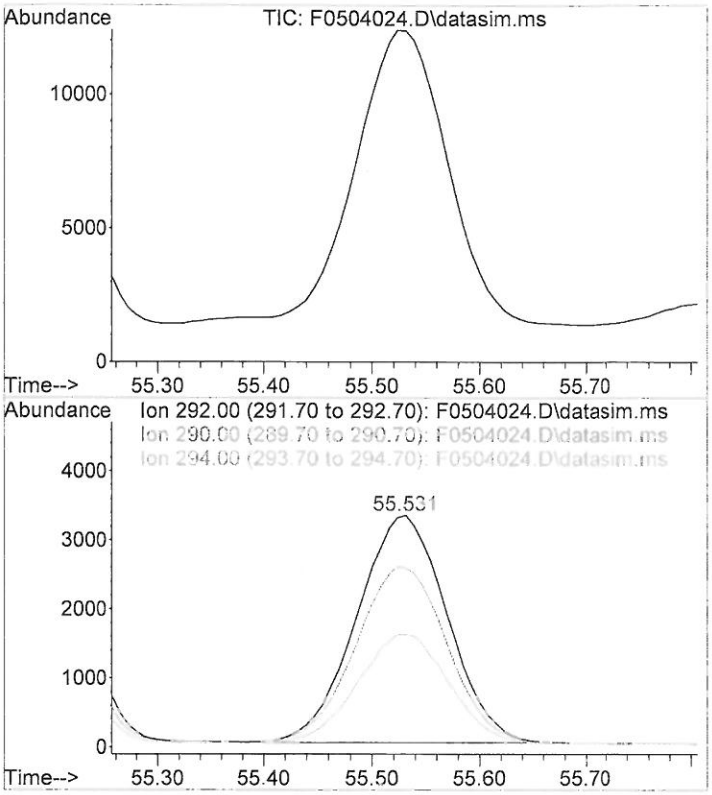
Ion	Ratio	Lower	Upper
292	100		
290	78.3	58.4	98.4
294	48.1	28.3	68.3



#56
CL3-BZ#35
Concen: 0.21 ng/mL
RT: 55.401 min Scan# 7168
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 174

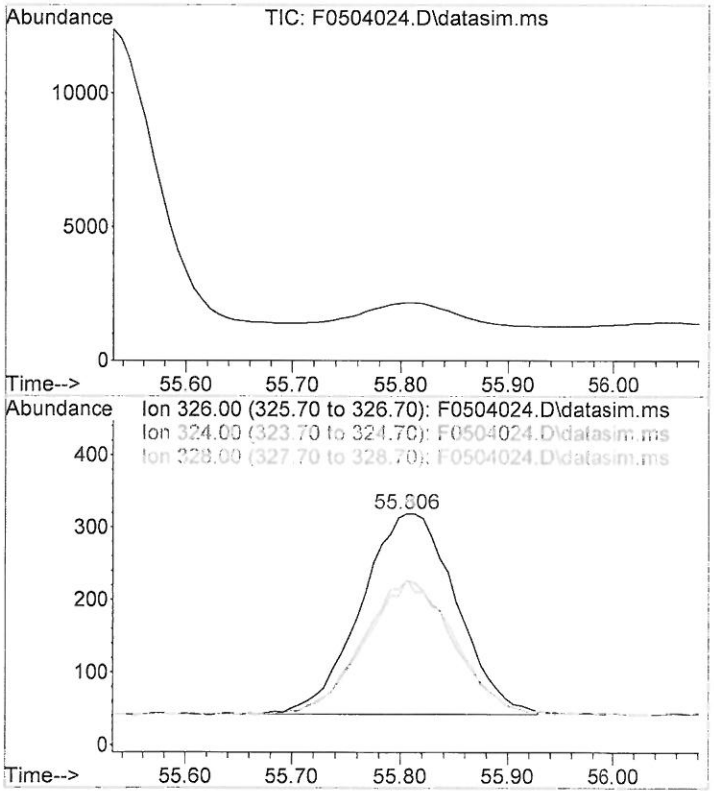
Ion	Ratio	Lower	Upper
256	100		
258	143.1	77.3	117.3#
186	79.9	42.7	82.7



#57
CL4-BZ#41
Concen: 44.48 ng/mL
RT: 55.531 min Scan# 7185
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 19136

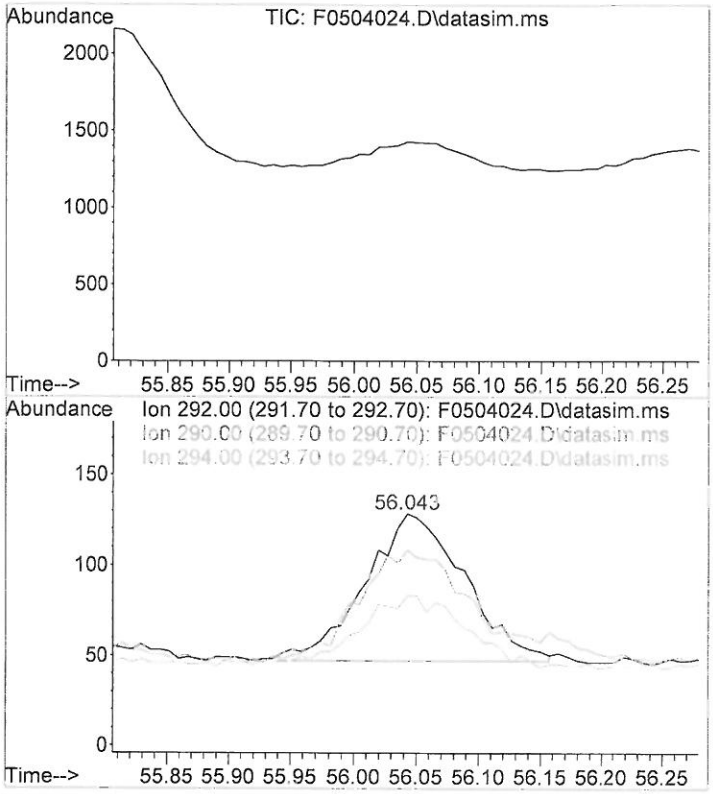
Ion	Ratio	Lower	Upper
292	100		
290	77.5	59.4	99.4
294	48.0	30.0	70.0



#58
CL5-BZ#96
Concen: 2.99 ng/mL
RT: 55.806 min Scan# 7221
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 1695

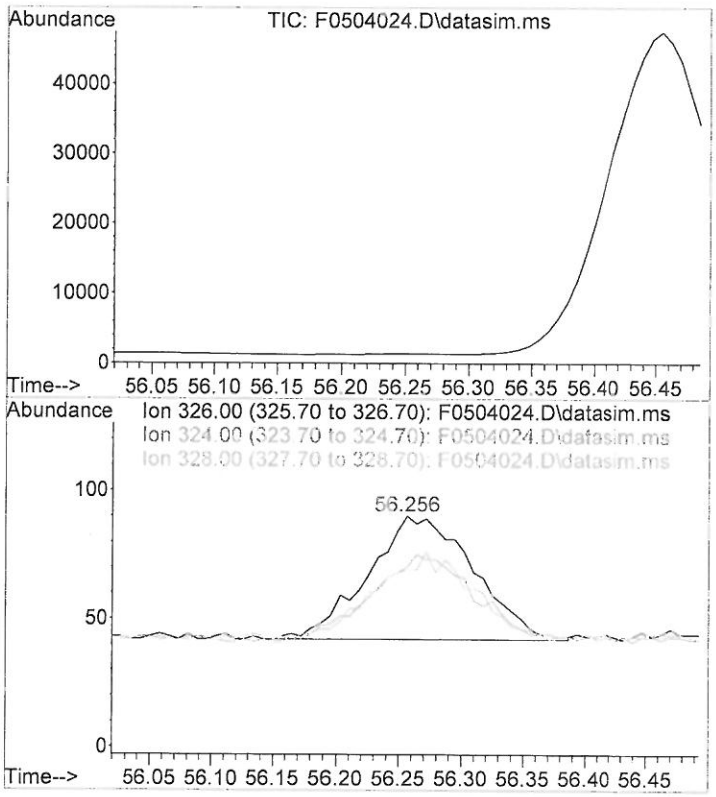
Ion	Ratio	Lower	Upper
326	100		
324	63.1	46.2	86.2
328	62.4	44.3	84.3



#59
CL4-BZ#72
Concen: 0.60 ng/mL
RT: 56.043 min Scan# 7252
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 448

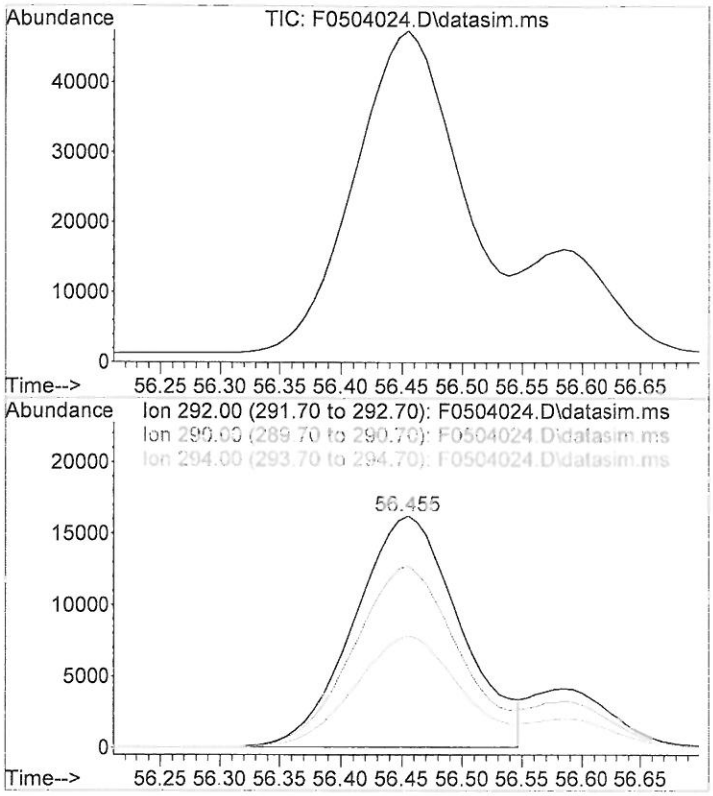
Ion	Ratio	Lower	Upper
292	100		
290	86.8	57.0	97.0
294	53.6	27.0	67.0



#60
CL5-BZ#103
Concen: 0.60 ng/mL
RT: 56.256 min Scan# 7280
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 280

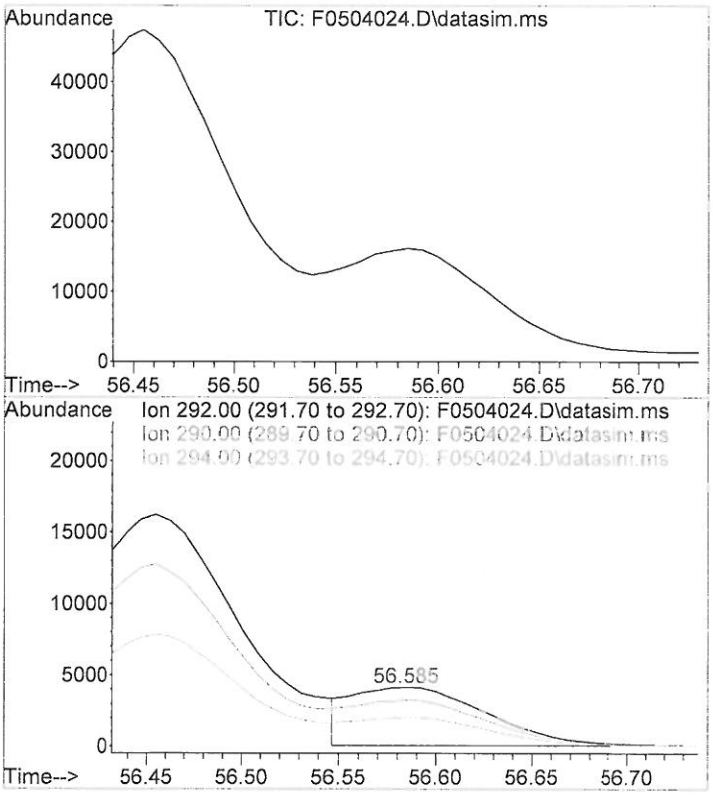
Ion	Ratio	Lower	Upper
326	100		
324	70.7	45.6	85.6
328	68.9	44.4	84.4



#61
CL4-BZ#64
Concen: 154.18 ng/mL
RT: 56.455 min Scan# 7306
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 97853

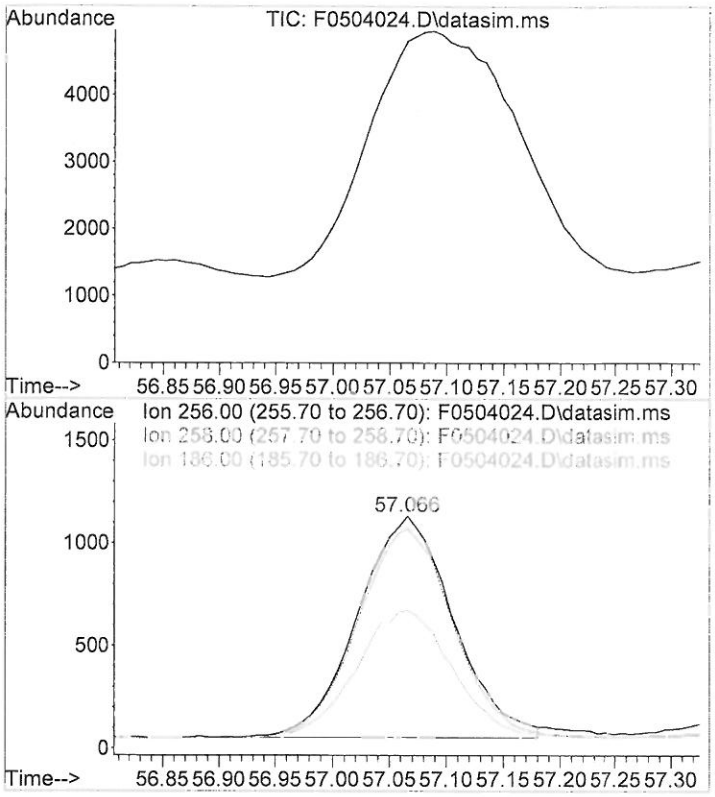
Ion	Ratio	Lower	Upper
292	100		
290	76.9	58.3	98.3
294	48.0	27.8	67.8



#62
CL4-BZ#40/#68
Concen: 38.36 ng/mL m
RT: 56.585 min Scan# 7323
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 19772

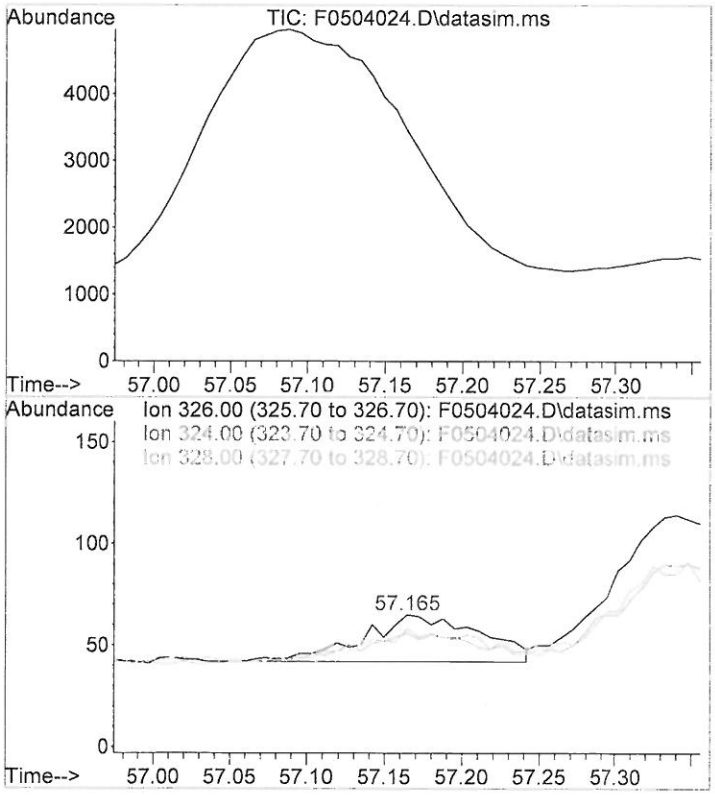
Ion	Ratio	Lower	Upper
292	100		
290	0.0	59.0	99.0#
294	108.5	29.4	69.4#



#63
CL3-BZ#37
Concen: 8.29 ng/mL
RT: 57.066 min Scan# 7386
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:256 Resp: 6255

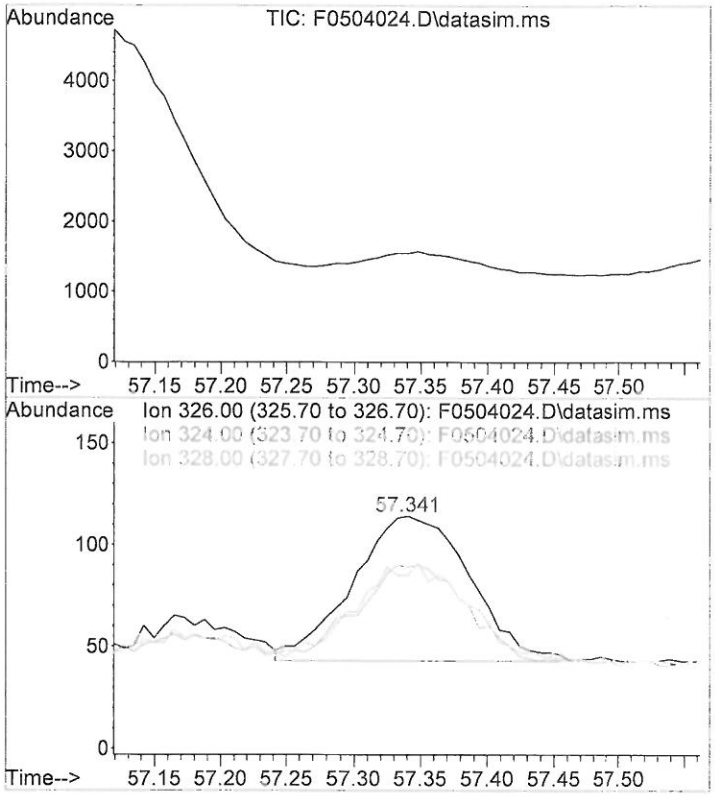
Ion	Ratio	Lower	Upper
256	100		
258	95.3	74.7	114.7
186	59.0	40.6	80.6



#64
CL5-BZ#100
Concen: 0.28 ng/mL
RT: 57.165 min Scan# 7399
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 120

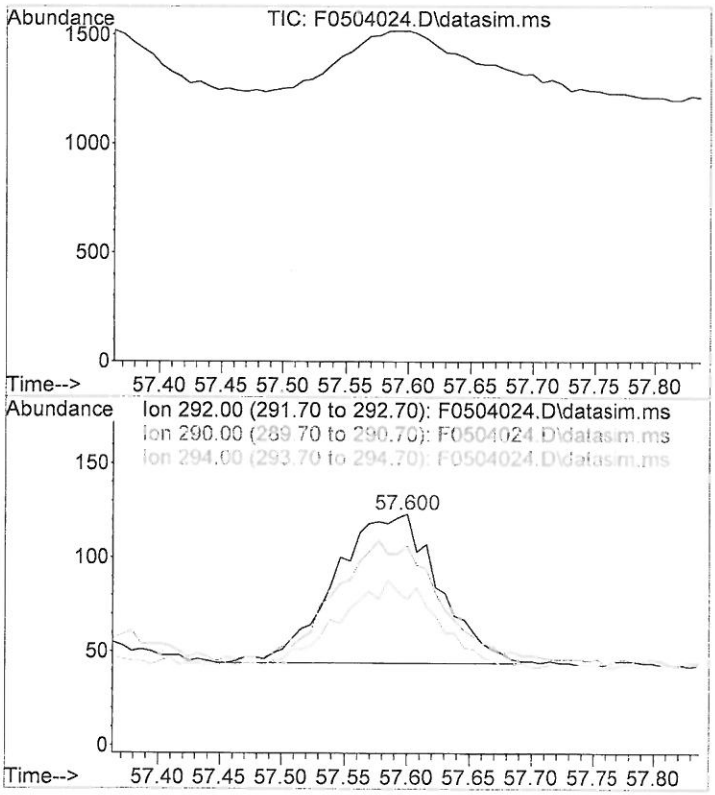
Ion	Ratio	Lower	Upper
326	100		
324	0.0	43.4	83.4#
328	0.0	42.0	82.0#



#65
CL5-BZ#94
Concen: 1.29 ng/mL
RT: 57.341 min Scan# 7422
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 432

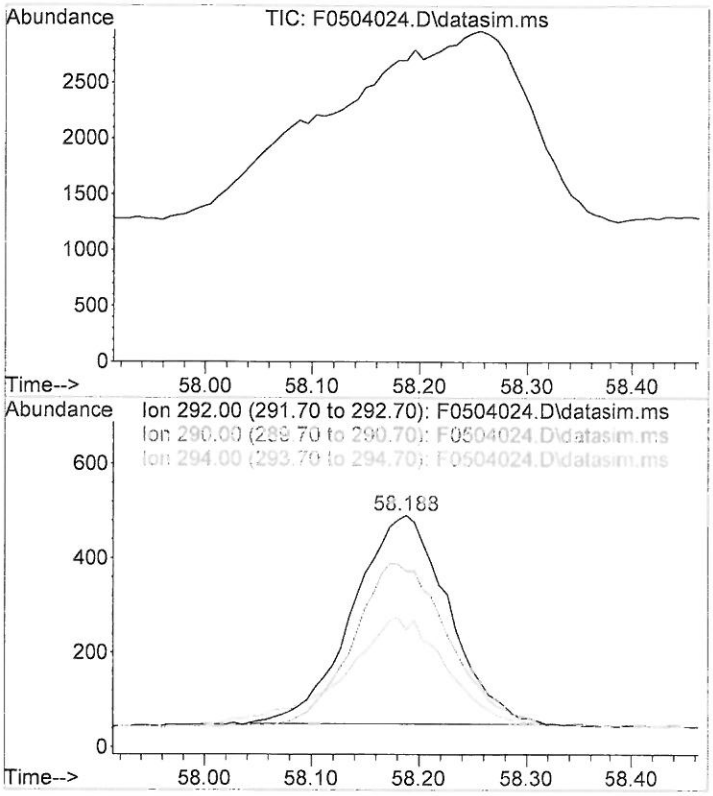
Ion	Ratio	Lower	Upper
326	100		
324	61.8	46.6	86.6
328	29.2	42.8	82.8#



#66
CL4-BZ#57
Concen: 0.64 ng/mL
RT: 57.600 min Scan# 7456
Delta R.T. 0.031 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 452

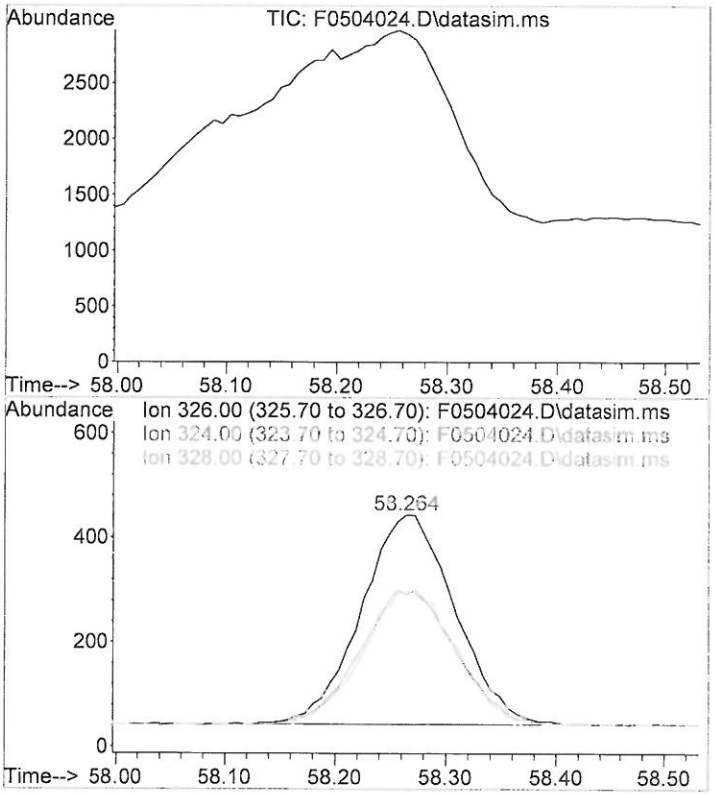
Ion	Ratio	Lower	Upper
292	100		
290	80.8	57.2	97.2
294	54.6	28.1	68.1



#67
CL4-BZ#67/#58
Concen: 3.93 ng/mL
RT: 58.188 min Scan# 7533
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 2720

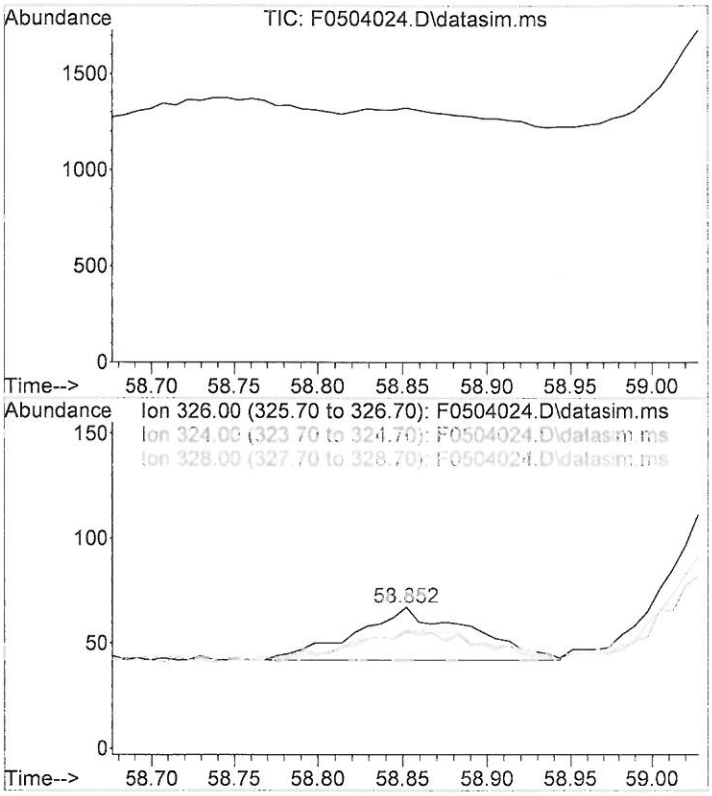
Ion	Ratio	Lower	Upper
292	100		
290	77.9	57.9	97.9
294	53.6	28.4	68.4



#68
CL5-BZ#102
Concen: 5.92 ng/mL
RT: 58.264 min Scan# 7543
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 2354

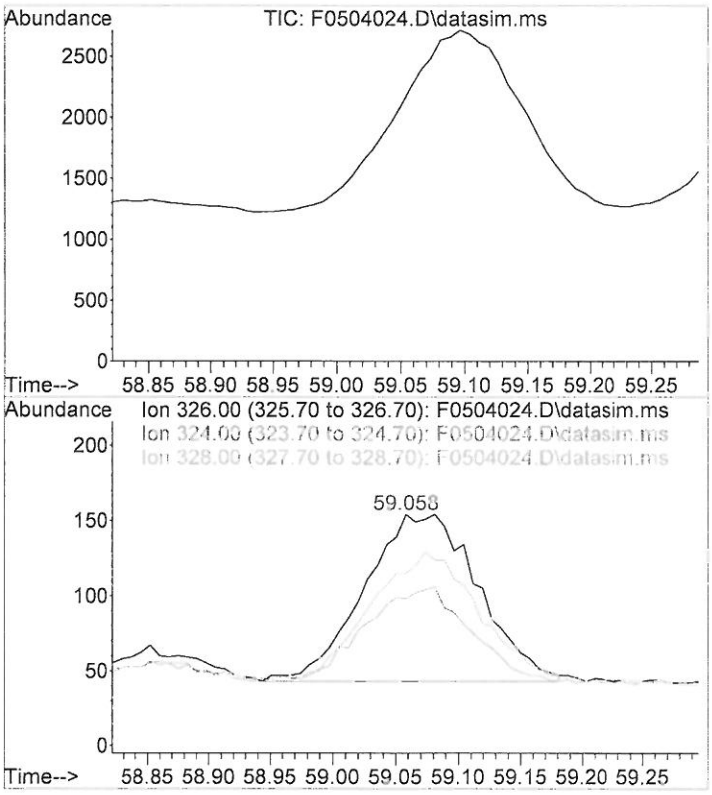
Ion	Ratio	Lower	Upper
326	100		
324	65.9	44.9	84.9
328	63.1	44.7	84.7



#70
CL5-BZ#98
Concen: 0.33 ng/mL
RT: 58.852 min Scan# 7620
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 117

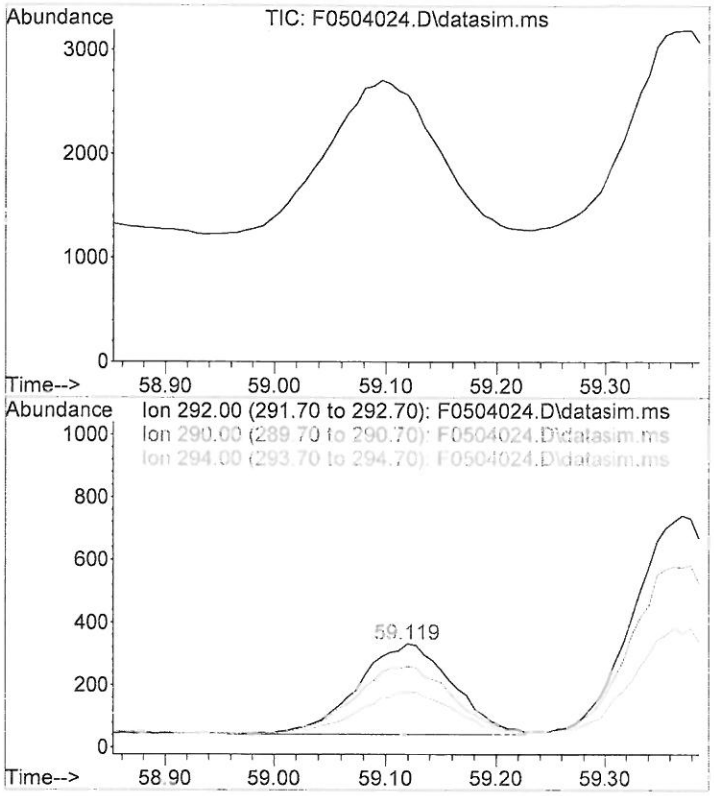
Ion	Ratio	Lower	Upper
326	100		
324	0.0	45.8	85.8#
328	0.0	45.5	85.5#



#71
CL5-BZ#93
Concen: 1.93 ng/mL
RT: 59.058 min Scan# 7647
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 698

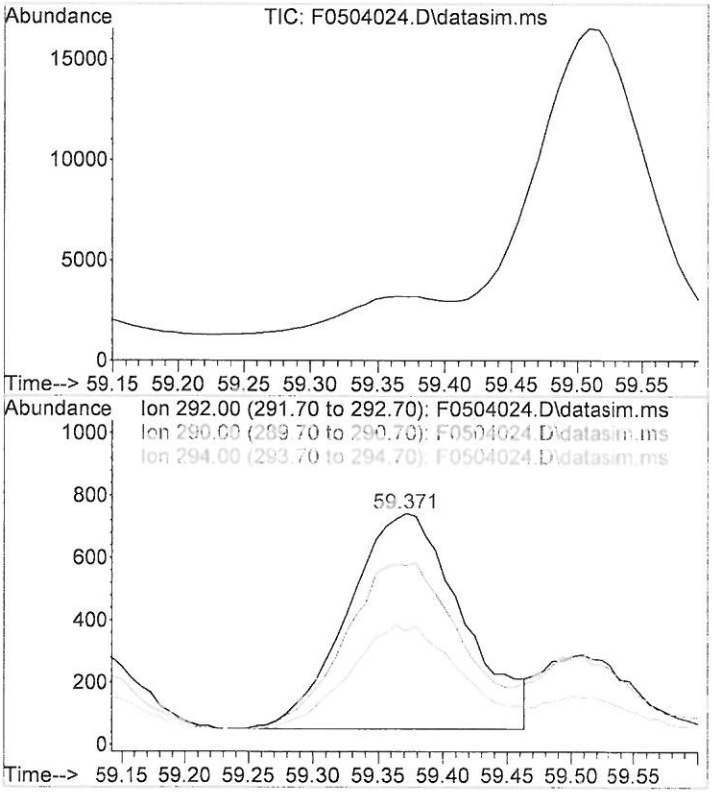
Ion	Ratio	Lower	Upper
326	100		
324	51.3	45.7	85.7
328	74.2	46.6	86.6



#72
CL4-BZ#76
Concen: 2.41 ng/mL
RT: 59.119 min Scan# 7655
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 1720

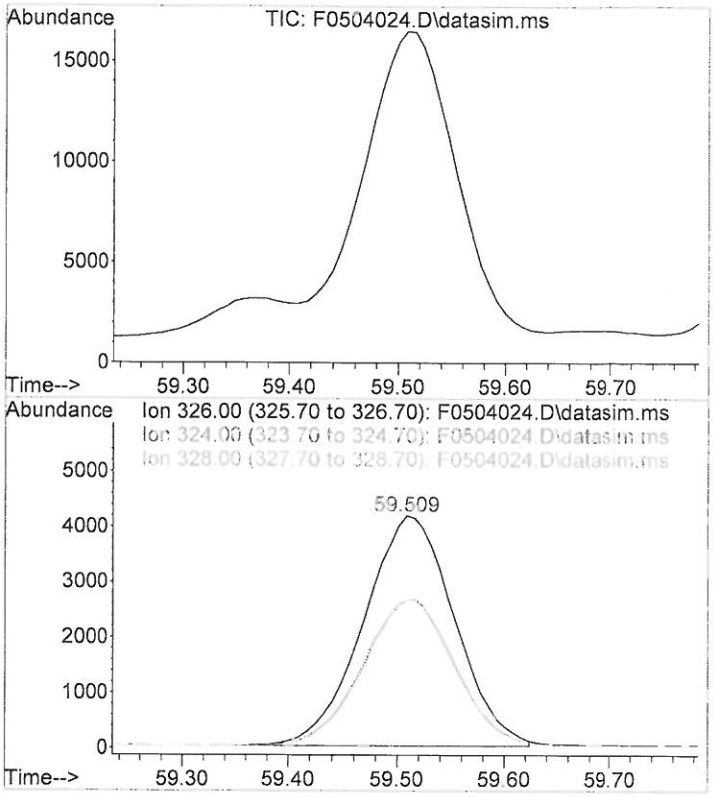
Ion	Ratio	Lower	Upper
292	100		
290	76.2	58.5	98.5
294	46.6	27.2	67.2



#73
CL4-BZ#63
Concen: 5.74 ng/mL
RT: 59.371 min Scan# 7688
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 4228

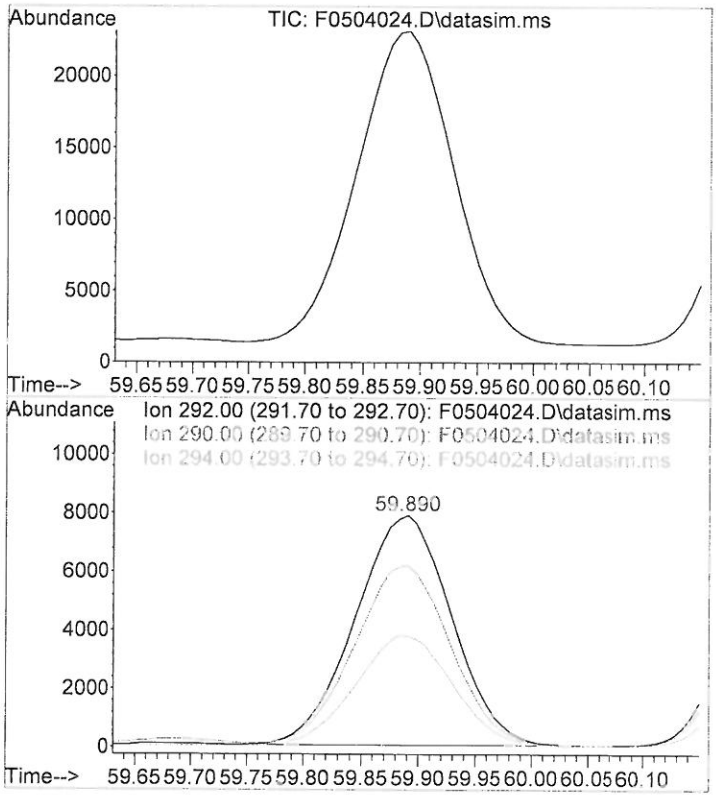
Ion	Ratio	Lower	Upper
292	100		
290	77.7	59.0	99.0
294	48.7	29.4	69.4



#74
CL5-BZ#88/#95
Concen: 56.04 ng/mL
RT: 59.509 min Scan# 7706
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 24210

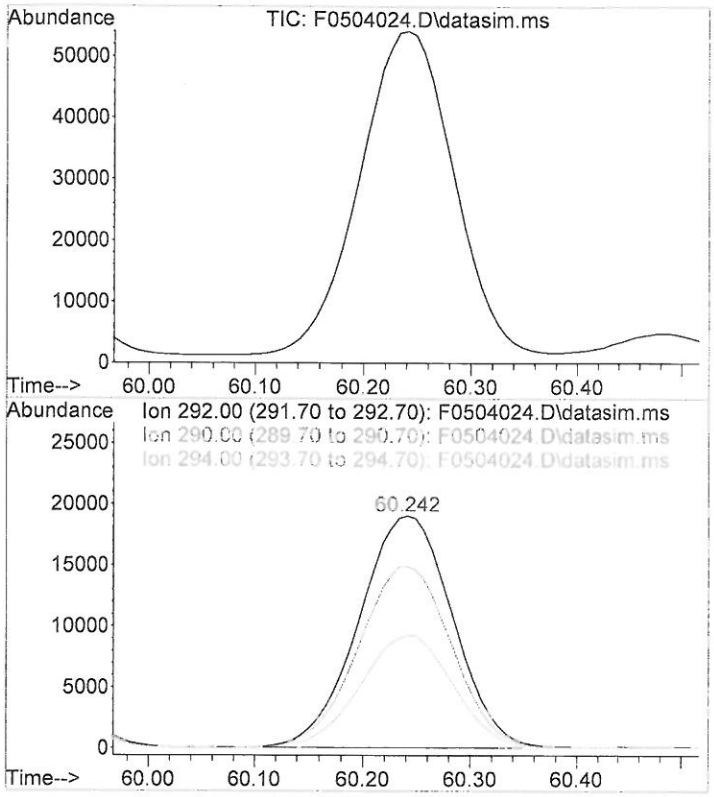
Ion	Ratio	Lower	Upper
326	100		
324	64.2	44.0	84.0
328	64.0	43.4	83.4



#76
CL4-BZ#74
Concen: 67.51 ng/mL
RT: 59.890 min Scan# 7756
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 45788

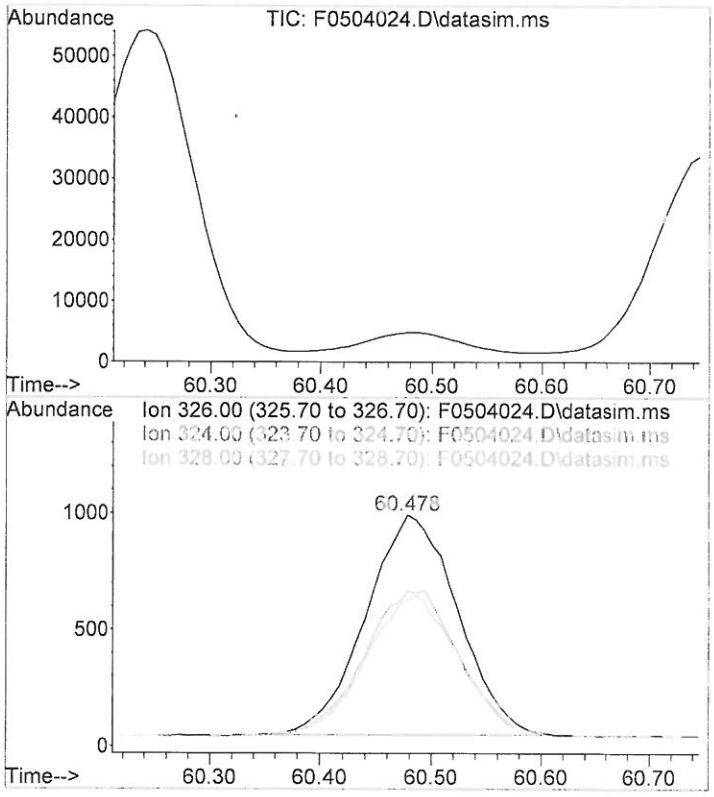
Ion	Ratio	Lower	Upper
292	100		
290	76.7	58.9	98.9
294	48.6	28.6	68.6



#78
CL4-BZ#70
Concen: 146.27 ng/mL
RT: 60.242 min Scan# 7802
Delta R.T. 0.023 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 114670

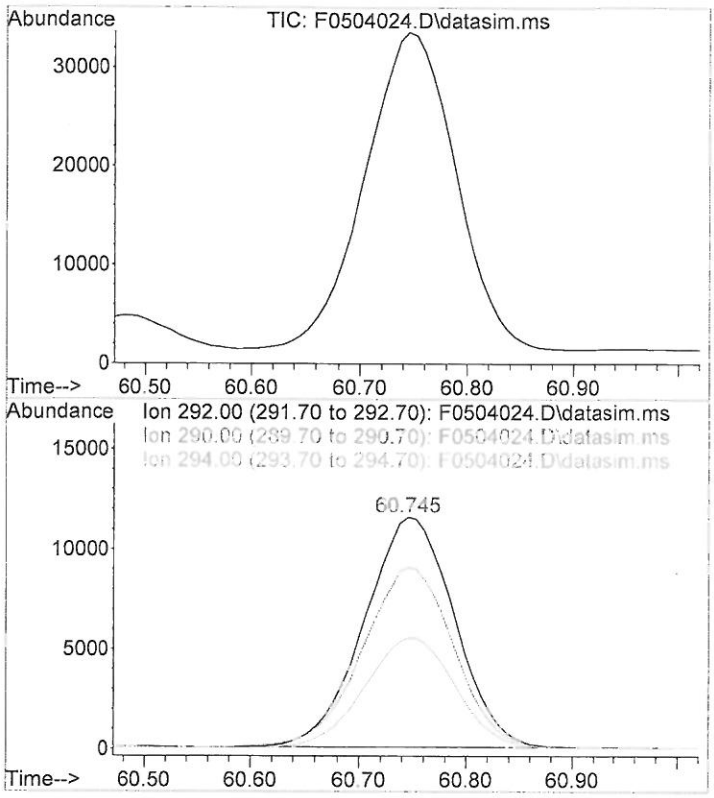
Ion	Ratio	Lower	Upper
292	100		
290	78.1	70.2	110.2
294	48.1	27.2	67.2



#79
CL5-BZ#91
Concen: 13.83 ng/mL
RT: 60.478 min Scan# 7833
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 5422

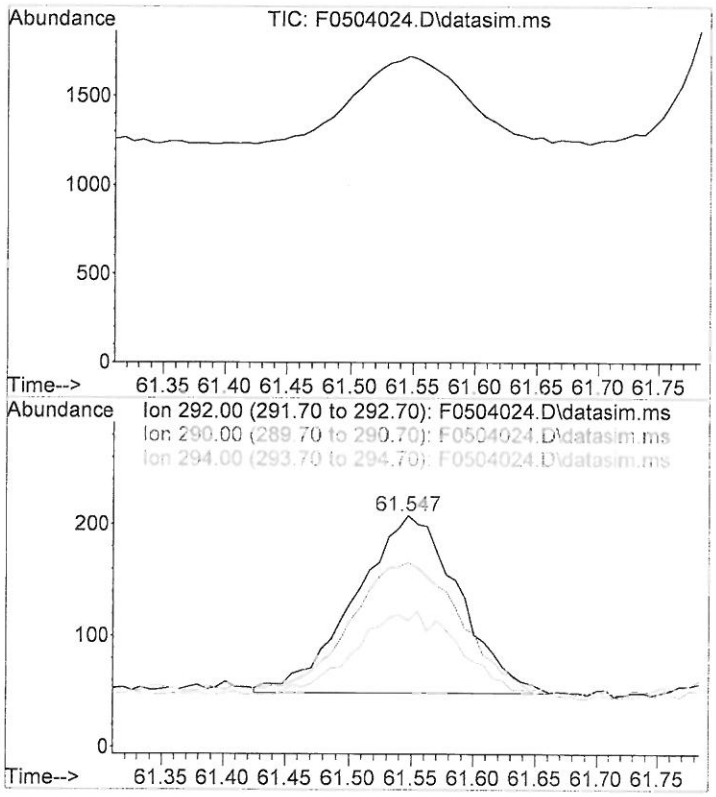
Ion	Ratio	Lower	Upper
326	100		
324	69.1	43.6	83.6
328	64.2	42.3	82.3



#80
CL4-BZ#66
Concen: 92.89 ng/mL
RT: 60.745 min Scan# 7868
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 66992

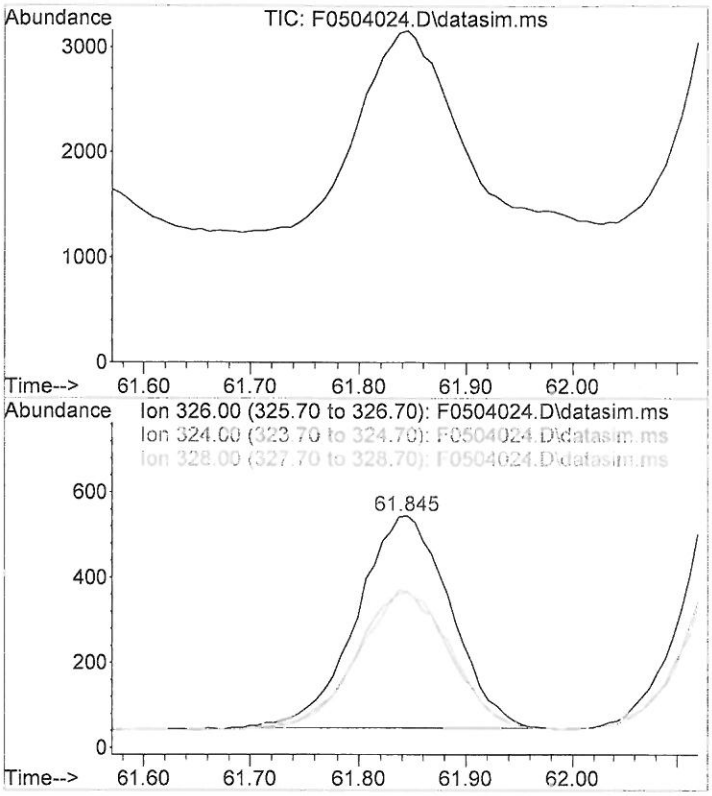
Ion	Ratio	Lower	Upper
292	100		
290	78.2	58.4	98.4
294	48.2	29.1	69.1



#82
CL4-BZ#80/#55
Concen: 1.23 ng/mL
RT: 61.547 min Scan# 7973
Delta R.T. 0.107 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 915

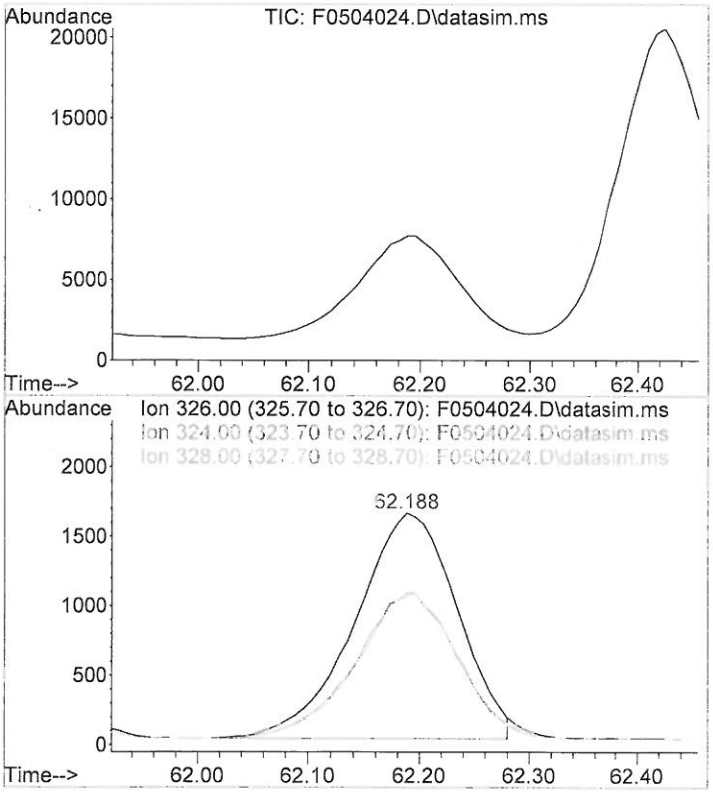
Ion	Ratio	Lower	Upper
292	100		
290	76.0	58.7	98.7
294	47.2	29.1	69.1



#83
CL5-BZ#92
Concen: 7.33 ng/mL
RT: 61.845 min Scan# 8012
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 3020

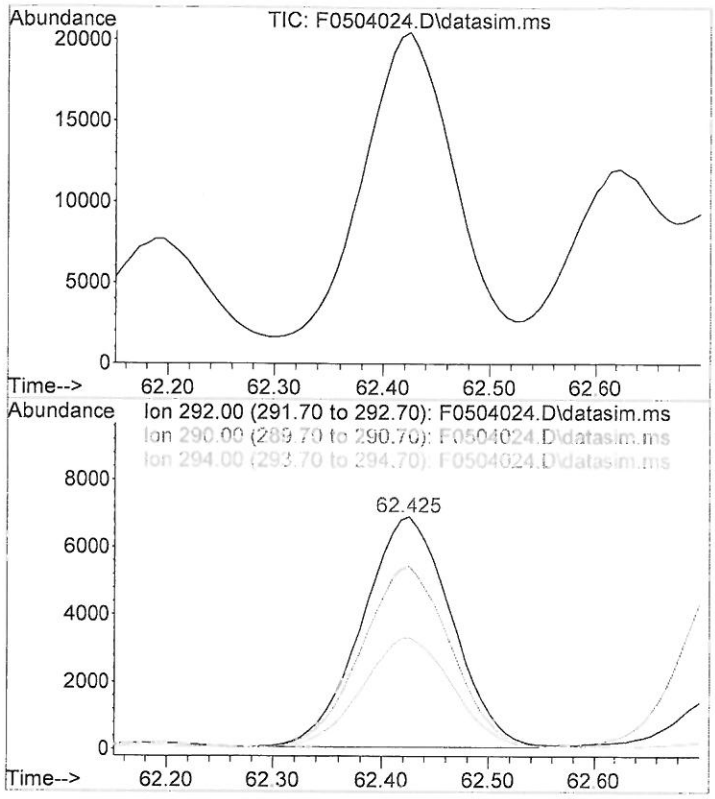
Ion	Ratio	Lower	Upper
326	100		
324	64.7	45.3	85.3
328	64.7	45.4	85.4



#84
CL5-BZ#89/#84
Concen: 28.44 ng/mL
RT: 62.188 min Scan# 8057
Delta R.T. 0.038 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 10402

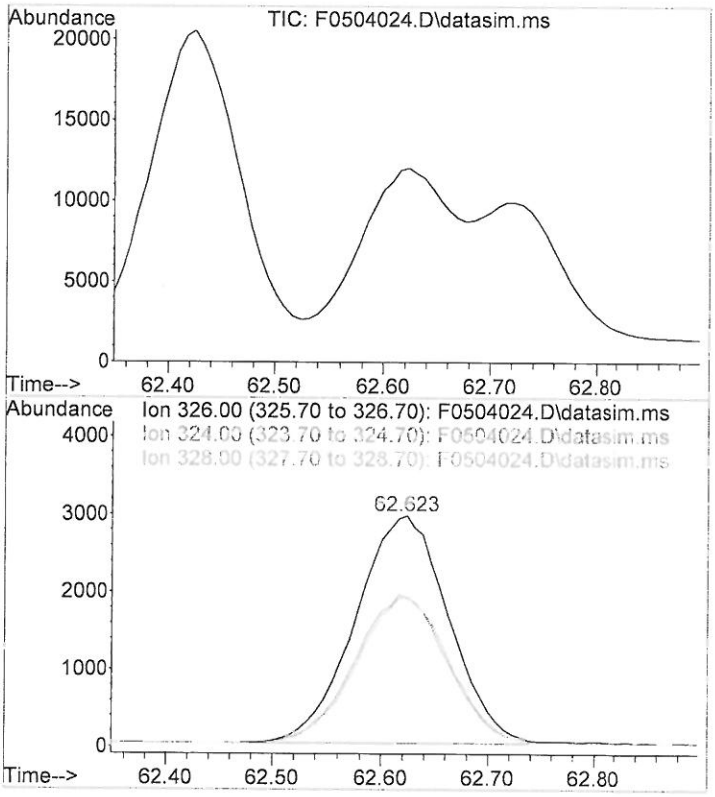
Ion	Ratio	Lower	Upper
326	100		
324	64.2	45.2	85.2
328	63.9	45.1	85.1



#85
CL4-BZ#56
Concen: 59.77 ng/mL
RT: 62.425 min Scan# 8088
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 39714

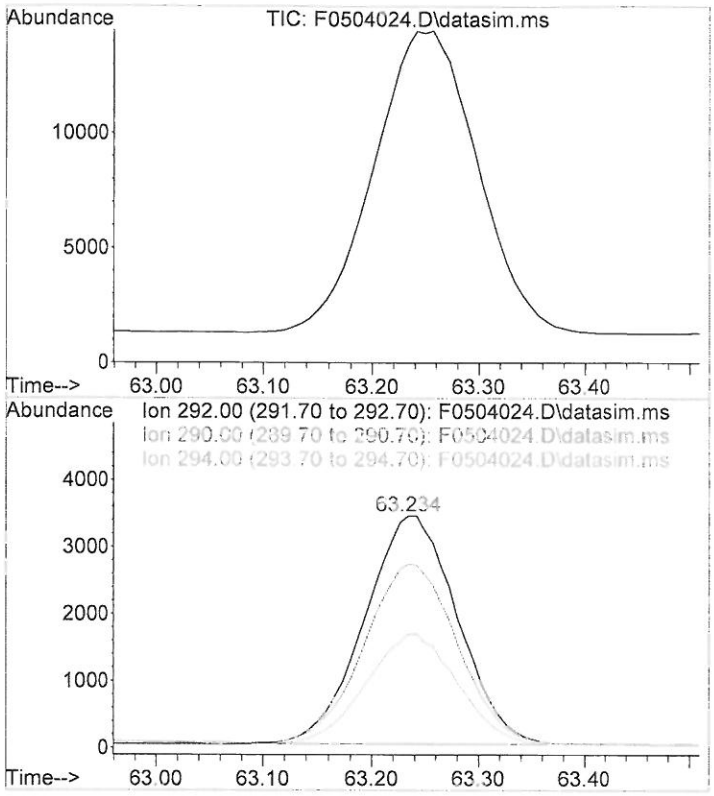
Ion	Ratio	Lower	Upper
292	100		
290	78.1	60.7	100.7
294	48.1	30.4	70.4



#86
CL5-BZ#90/#101
Concen: 40.17 ng/mL
RT: 62.623 min Scan# 8114
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 17655

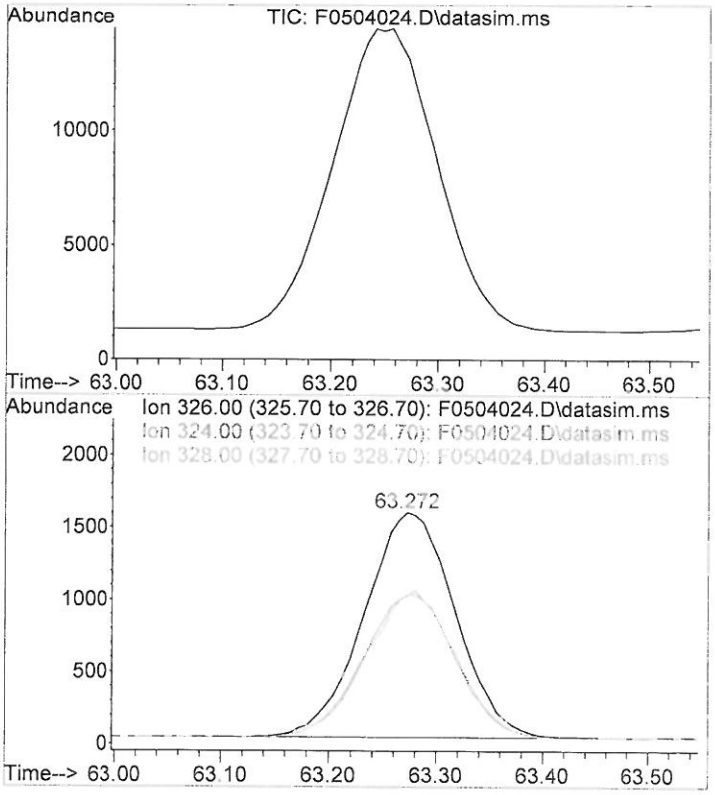
Ion	Ratio	Lower	Upper
326	100		
324	64.9	44.7	84.7
328	64.1	45.9	85.9



#88
CL4-BZ#60
Concen: 24.64 ng/mL
RT: 63.234 min Scan# 8194
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 20492

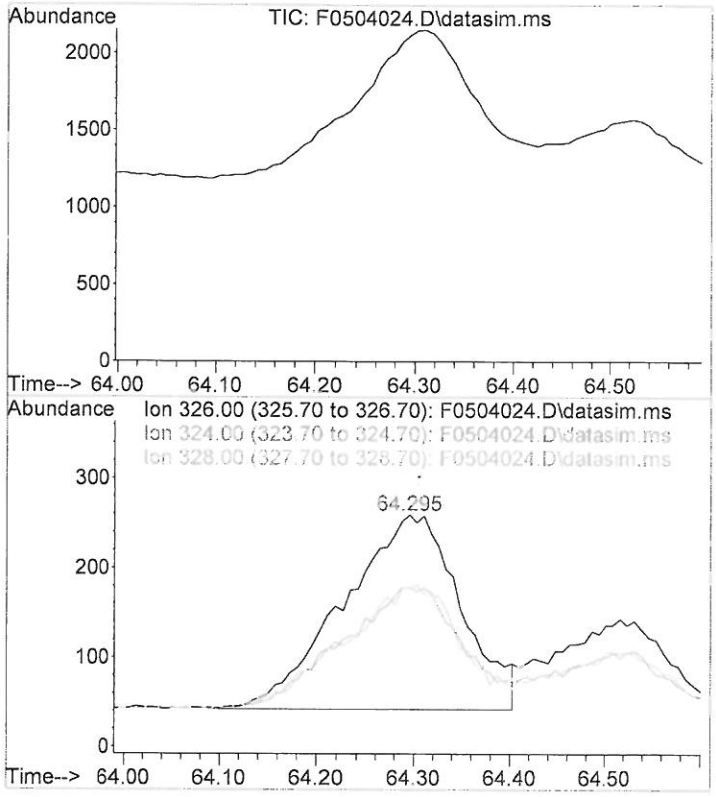
Ion	Ratio	Lower	Upper
292	100		
290	78.5	66.1	106.1
294	47.8	26.1	66.1



#89
CL5-BZ#99
Concen: 19.28 ng/mL
RT: 63.272 min Scan# 8199
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 9193

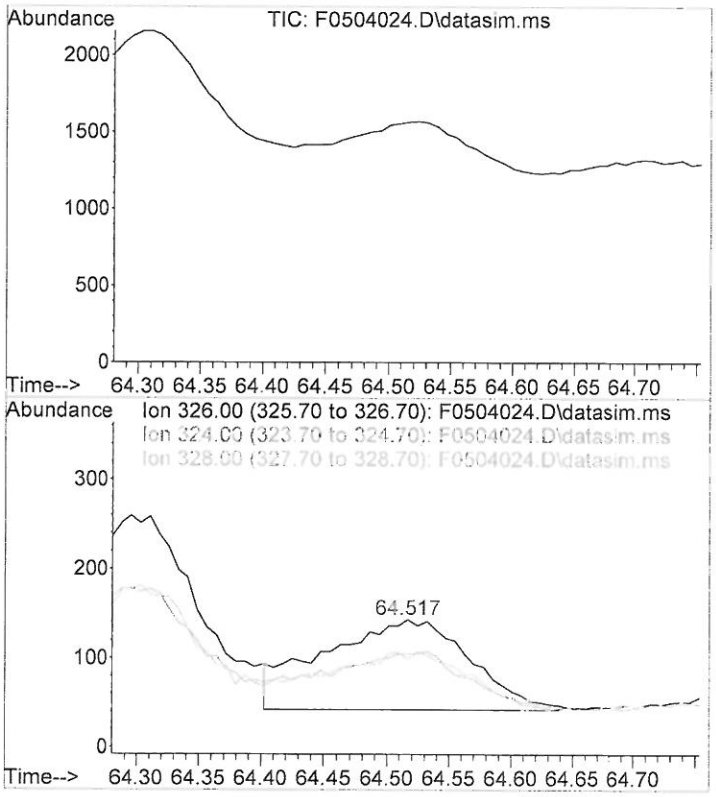
Ion	Ratio	Lower	Upper
326	100		
324	64.5	48.7	88.7
328	63.7	45.6	85.6



#92
CL5-BZ#119/#83
Concen: 3.84 ng/mL m
RT: 64.295 min Scan# 8333
Delta R.T. 0.076 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 1820

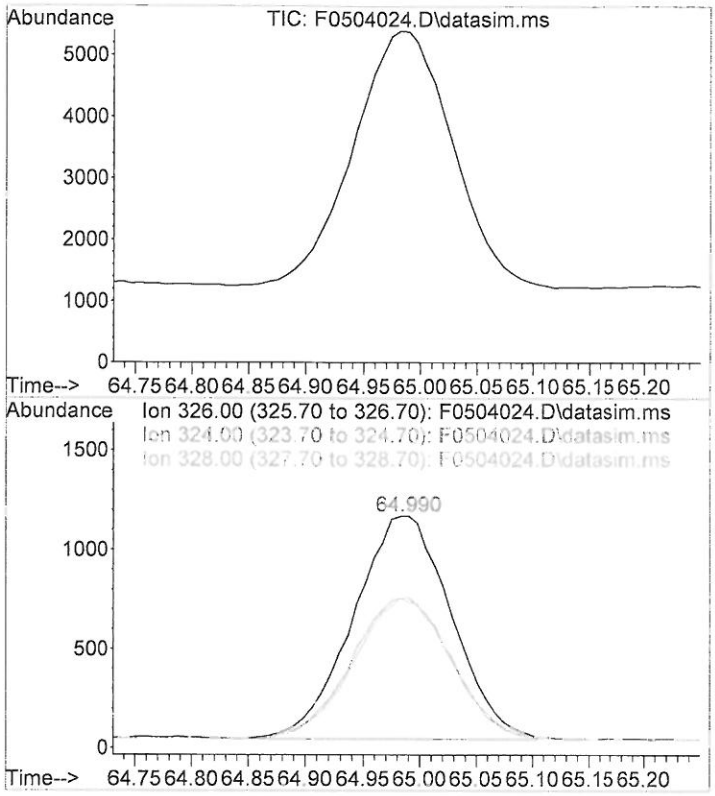
Ion	Ratio	Lower	Upper
326	100		
324	56.7	45.0	85.0
328	56.3	44.8	84.8



#93
CL5-BZ#125/#112/#86
Concen: 1.76 ng/mL m
RT: 64.517 min Scan# 8362
Delta R.T. 0.038 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 823

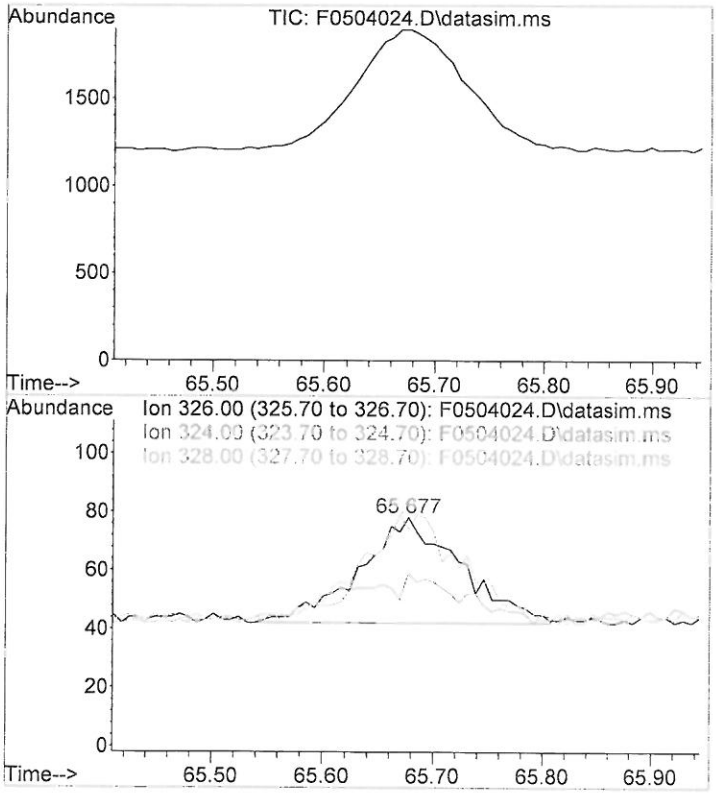
Ion	Ratio	Lower	Upper
326	100		
324	39.1	44.7	84.7#
328	12.2	43.3	83.3#



#96
CL5-BZ#97
Concen: 18.87 ng/mL
RT: 64.990 min Scan# 8424
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 6728

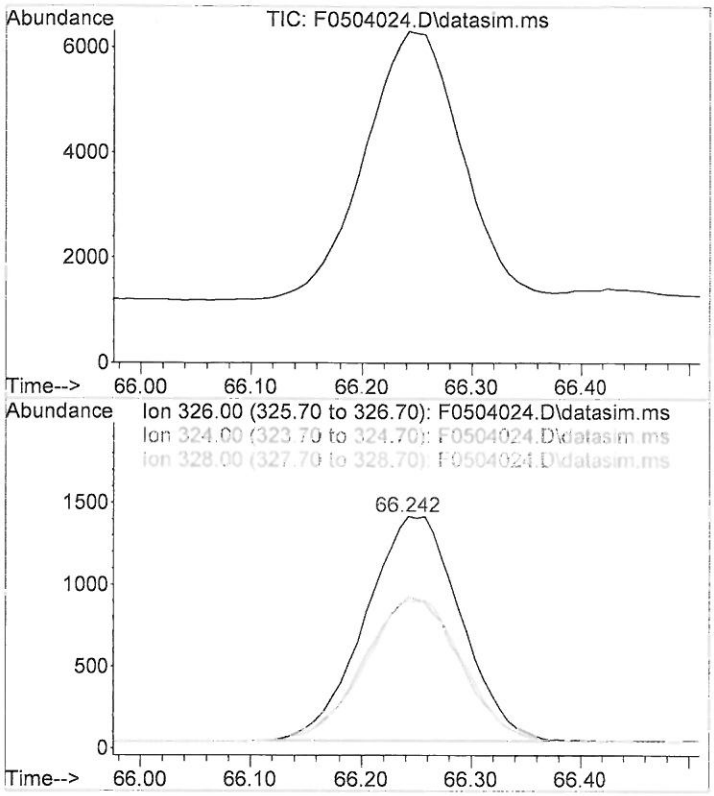
Ion	Ratio	Lower	Upper
326	100		
324	64.4	43.4	83.4
328	62.9	43.5	83.5



#99
CL5-BZ#116
Concen: 0.42 ng/mL
RT: 65.677 min Scan# 8514
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 228

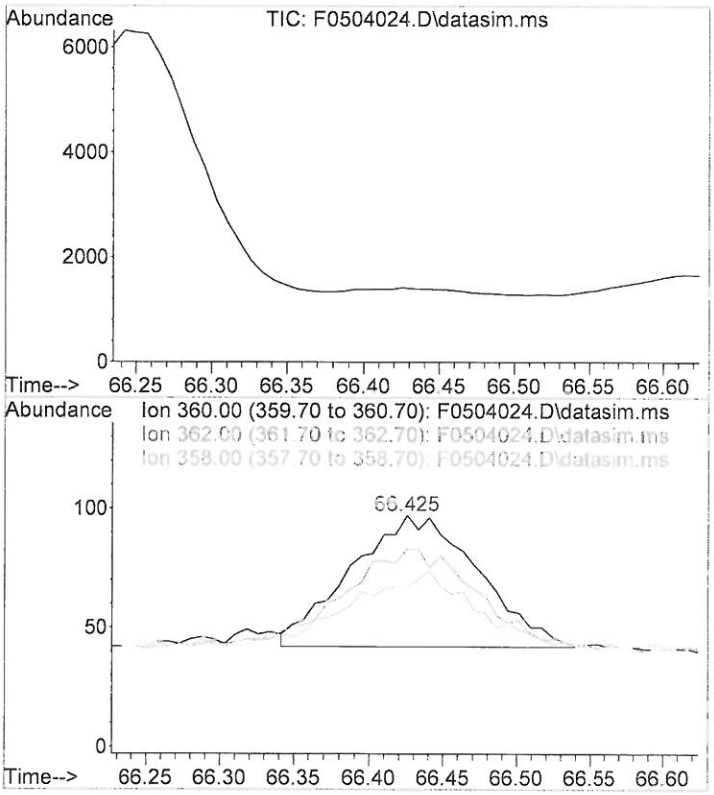
Ion	Ratio	Lower	Upper
326	100		
324	0.0	44.6	84.6#
328	97.4	46.0	86.0#



#100
CL5-BZ#87
Concen: 20.17 ng/mL
RT: 66.242 min Scan# 8588
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 8245

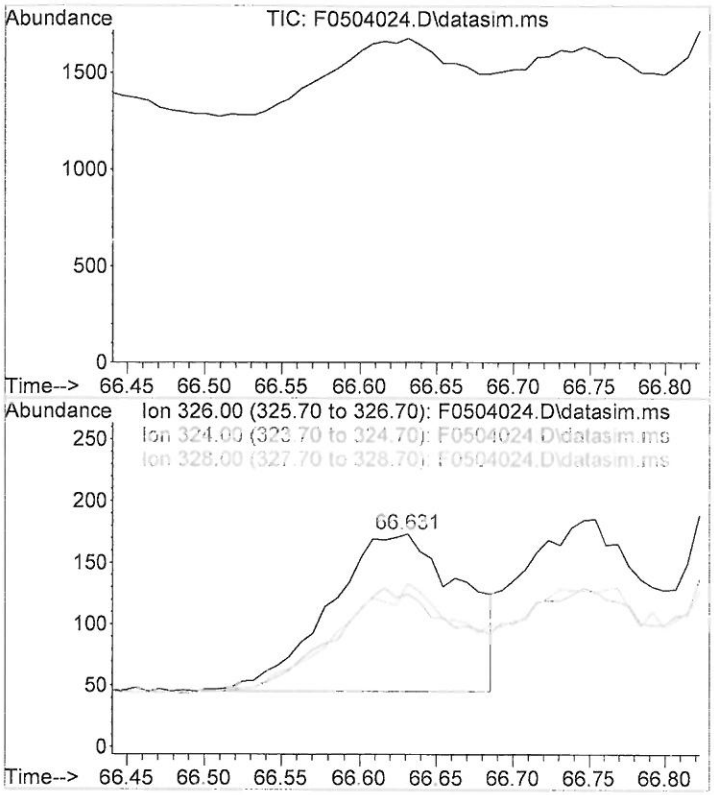
Ion	Ratio	Lower	Upper
326	100		
324	64.1	43.5	83.5
328	64.4	45.7	85.7



#102
CL6-BZ#154/#136
Concen: 0.76 ng/mL
RT: 66.425 min Scan# 8612
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 326

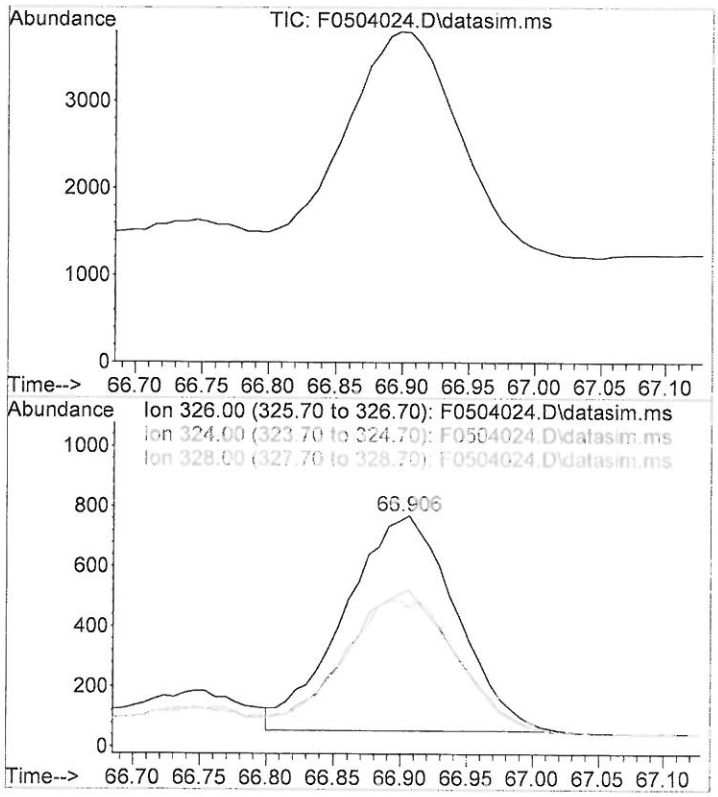
Ion	Ratio	Lower	Upper
360	100		
362	77.3	57.8	97.8
358	55.8	33.8	73.8



#103
CL5-BZ#111/#117/#115
Concen: 1.37 ng/mL
RT: 66.631 min Scan# 8639
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 764

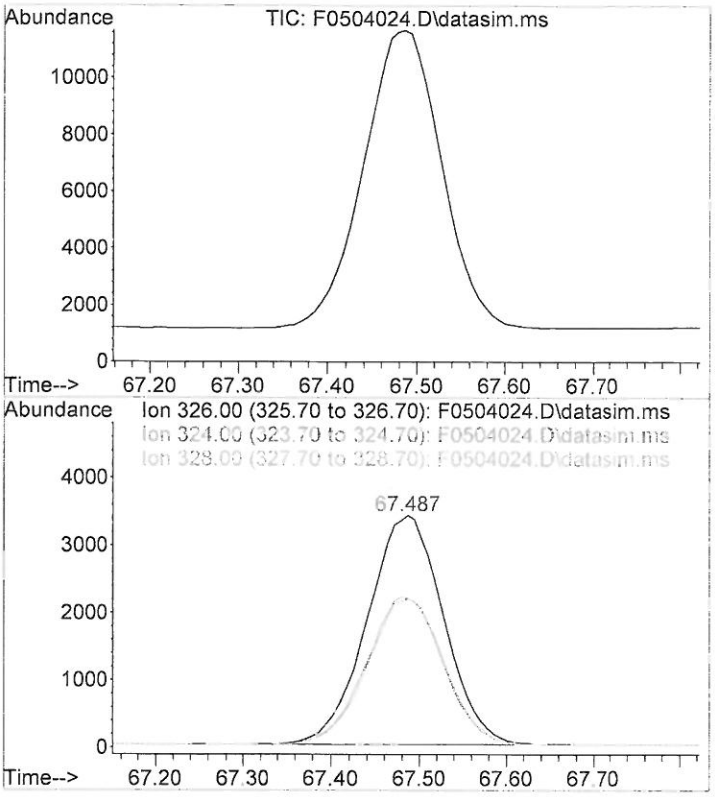
Ion	Ratio	Lower	Upper
326	100		
324	64.1	45.3	85.3
328	61.1	44.1	84.1



#104
CL5-BZ#85
Concen: 10.03 ng/mL
RT: 66.906 min Scan# 8675
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 4156

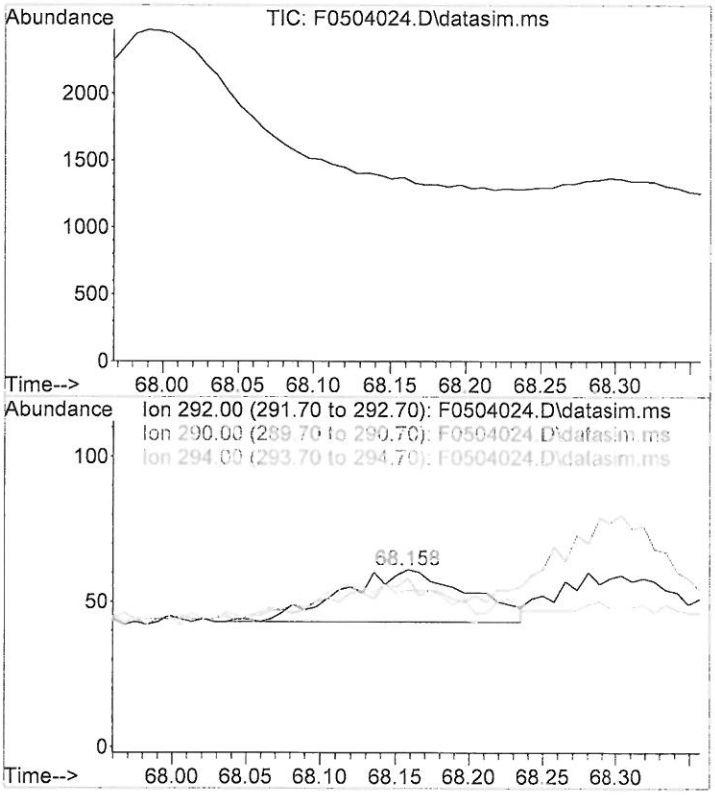
Ion	Ratio	Lower	Upper
326	100		
324	65.3	45.6	85.6
328	63.5	45.6	85.6



#105
CL5-BZ#120/#110
Concen: 35.33 ng/mL
RT: 67.487 min Scan# 8751
Delta R.T. 0.092 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 20591

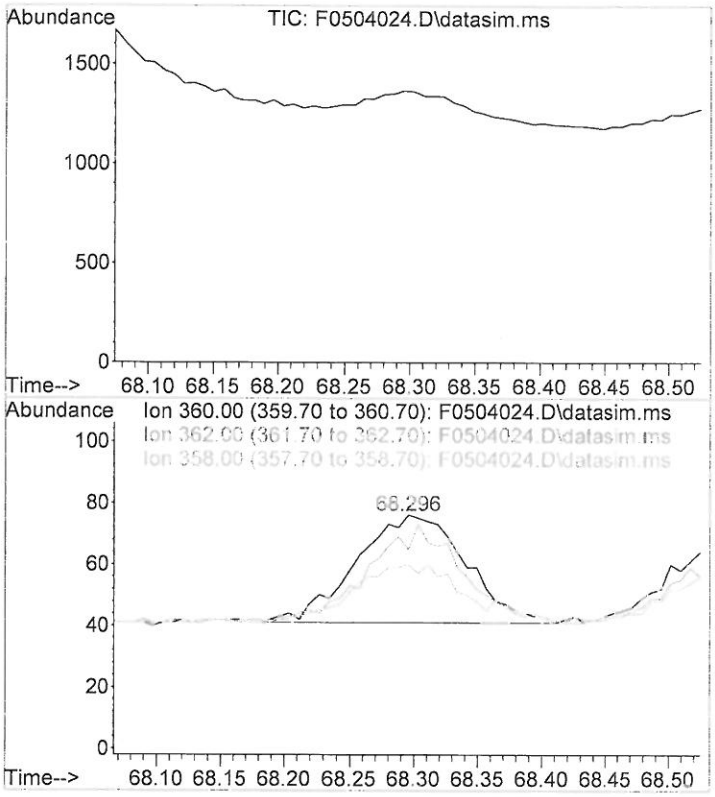
Ion	Ratio	Lower	Upper
326	100		
324	64.6	45.5	85.5
328	64.1	45.3	85.3



#106
CL4-BZ#81
Concen: 0.15 ng/mL
RT: 68.158 min Scan# 8839
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 105

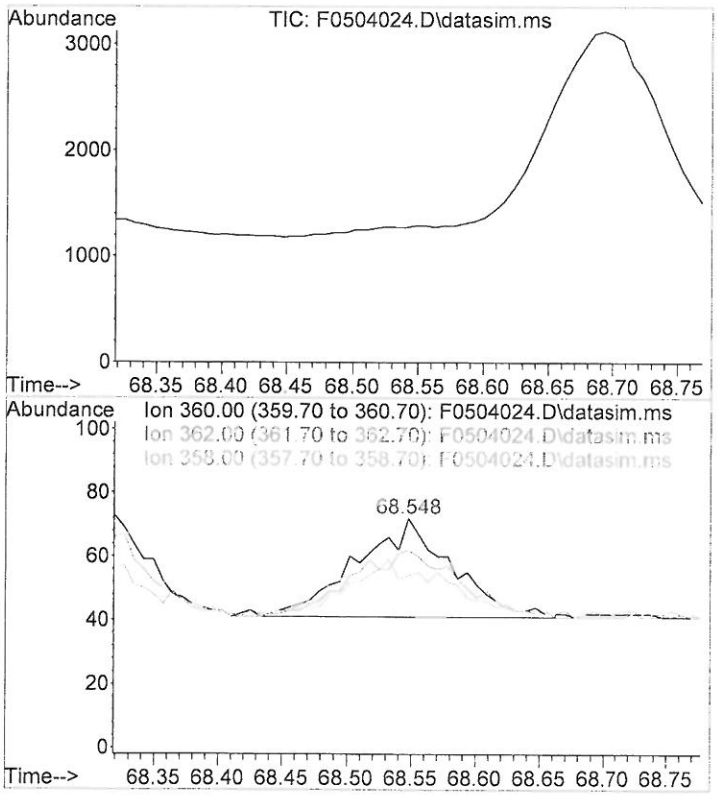
Ion	Ratio	Lower	Upper
292	100		
290	0.0	58.7	98.7#
294	0.0	29.7	69.7#



#107
CL6-BZ#151
Concen: 0.63 ng/mL
RT: 68.296 min Scan# 8857
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 207

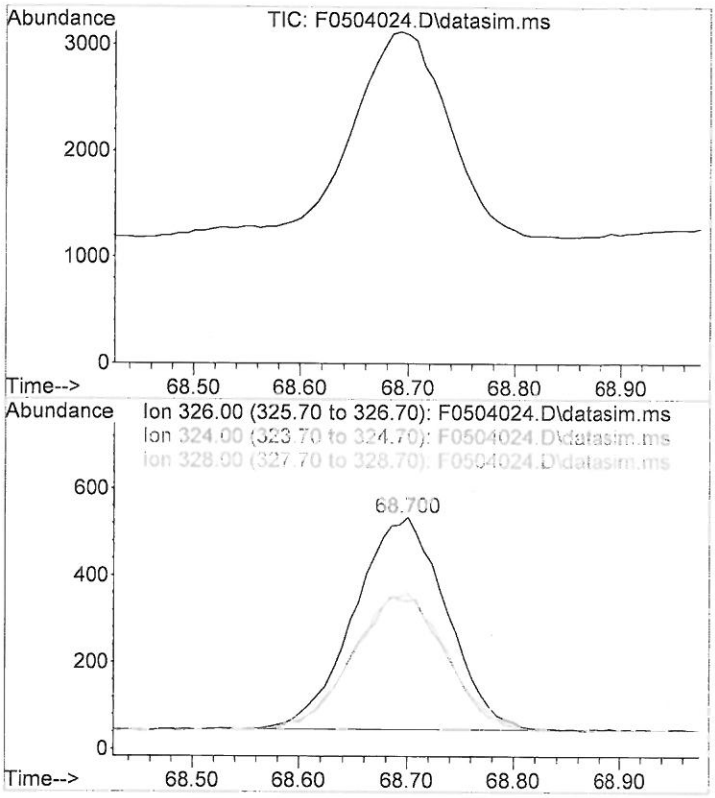
Ion	Ratio	Lower	Upper
360	100		
362	77.8	55.7	95.7
358	50.2	34.8	74.8



#108
CL6-BZ#135
Concen: 0.54 ng/mL
RT: 68.548 min Scan# 8890
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 158

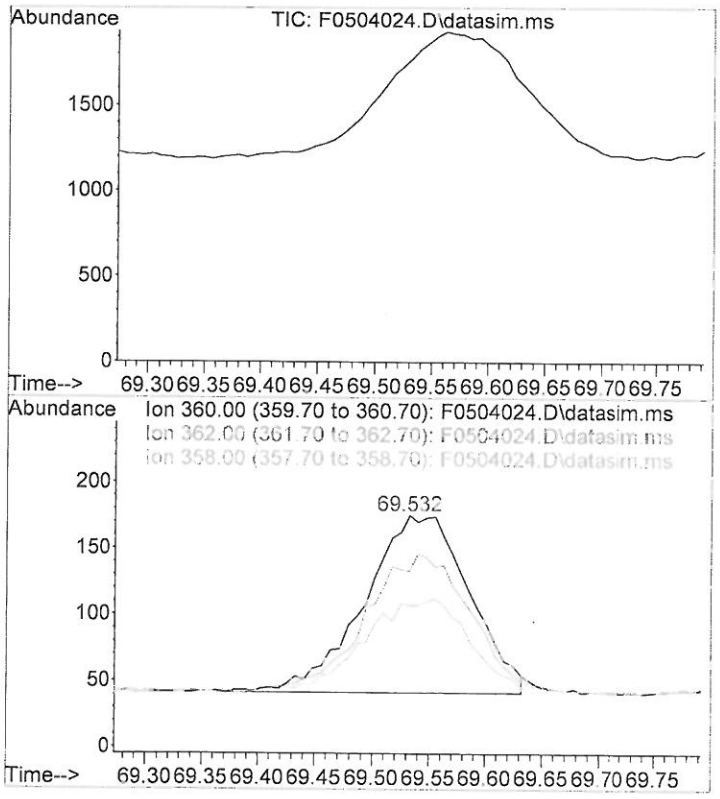
Ion	Ratio	Lower	Upper
360	100		
362	0.0	58.4	98.4#
358	0.0	35.8	75.8#



#109
CL5-BZ#82
Concen: 8.80 ng/mL
RT: 68.700 min Scan# 8910
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 2912

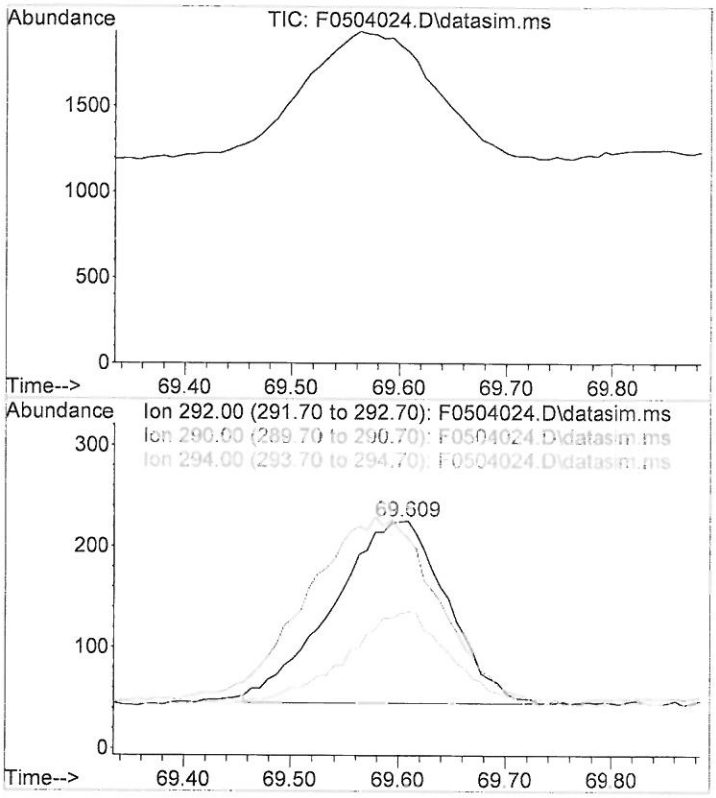
Ion	Ratio	Lower	Upper
326	100		
324	64.0	44.8	84.8
328	64.2	44.2	84.2



#111
CL6-BZ#147/#149
Concen: 2.58 ng/mL
RT: 69.532 min Scan# 9019
Delta R.T. 0.023 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 860

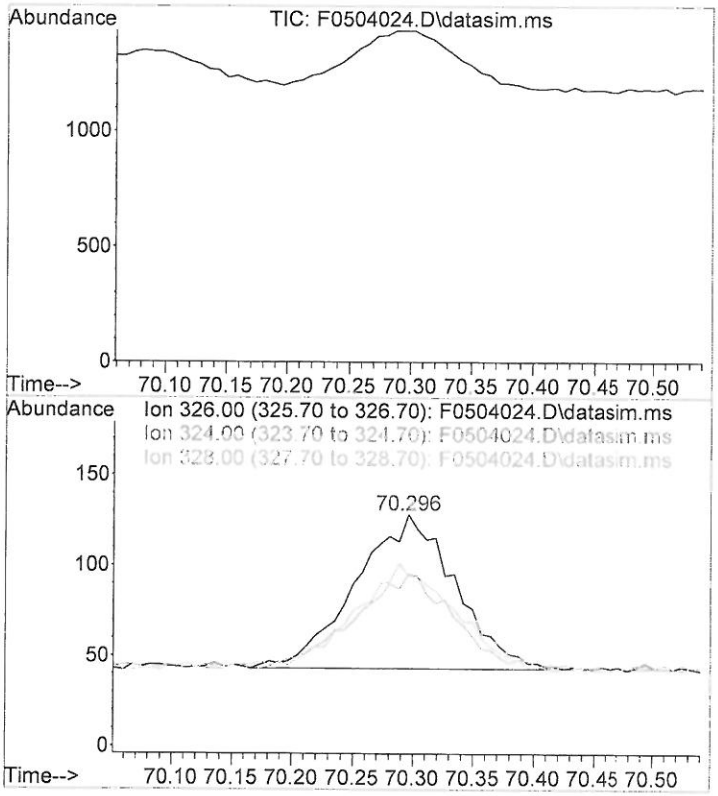
Ion	Ratio	Lower	Upper
360	100		
362	79.3	56.7	96.7
358	53.5	31.4	71.4



#112
CL4-BZ#77
Concen: 1.77 ng/mL
RT: 69.609 min Scan# 9029
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:292 Resp: 1330

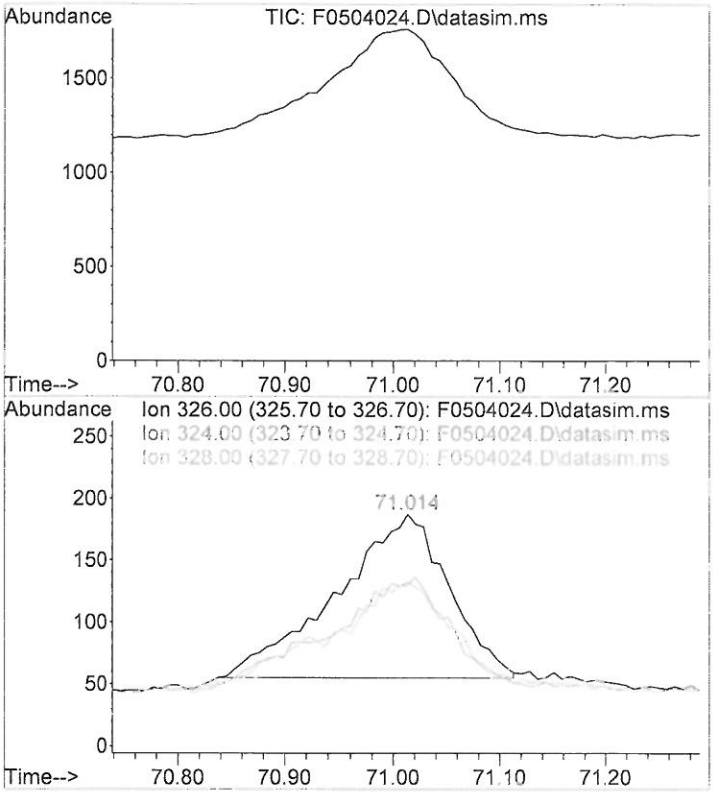
Ion	Ratio	Lower	Upper
292	100		
290	110.9	65.3	105.3#
294	46.7	27.9	67.9



#115
CL5-BZ#124
Concen: 0.81 ng/mL
RT: 70.296 min Scan# 9119
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 484

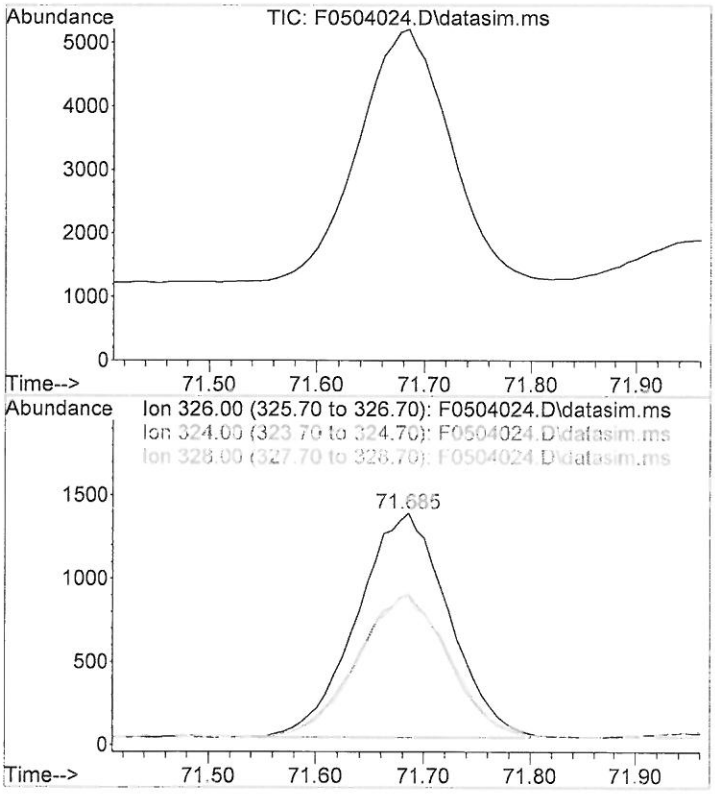
Ion	Ratio	Lower	Upper
326	100		
324	63.4	44.0	84.0
328	62.2	44.6	84.6



#117
CL5-BZ#123/#107
Concen: 1.48 ng/mL
RT: 71.014 min Scan# 9213
Delta R.T. 0.031 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 956

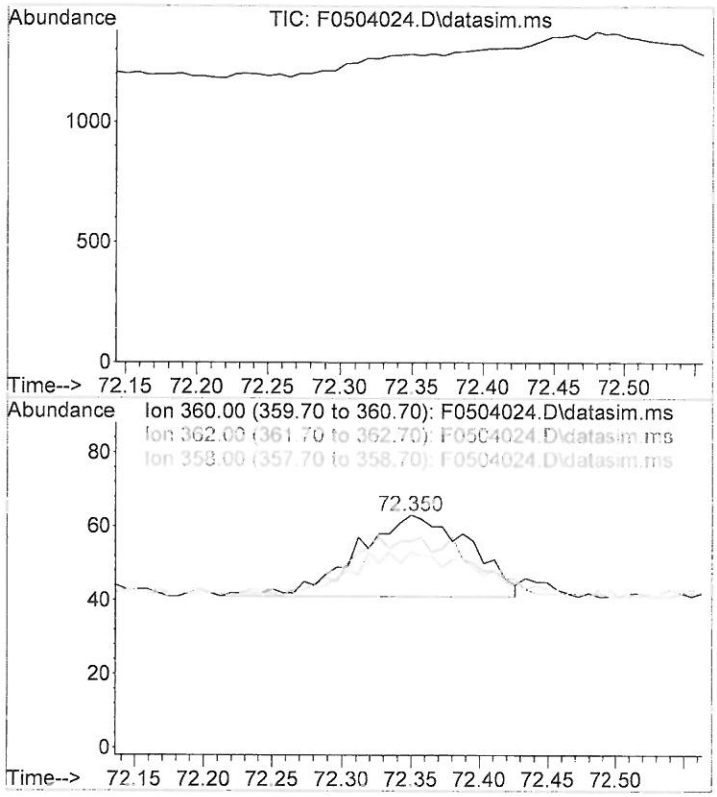
Ion	Ratio	Lower	Upper
326	100		
324	67.4	61.8	101.8
328	51.8	36.9	76.9



#123
CL5-BZ#118
Concen: 15.45 ng/mL
RT: 71.685 min Scan# 9301
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 7996

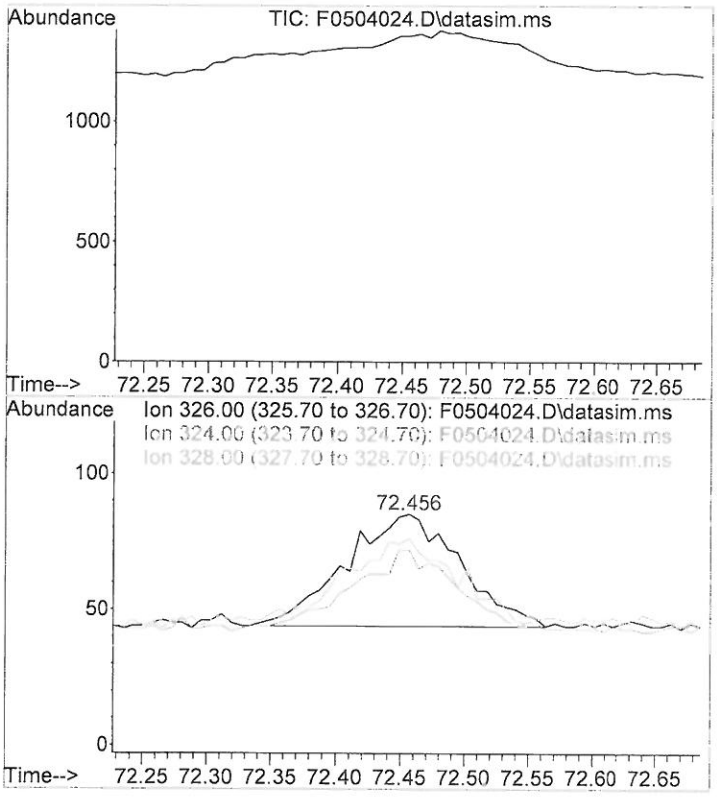
Ion	Ratio	Lower	Upper
326	100		
324	64.1	44.7	84.7
328	62.7	44.3	84.3



#126
CL6-BZ#146
Concen: 0.36 ng/mL
RT: 72.350 min Scan# 9388
Delta R.T. 0.000 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 126

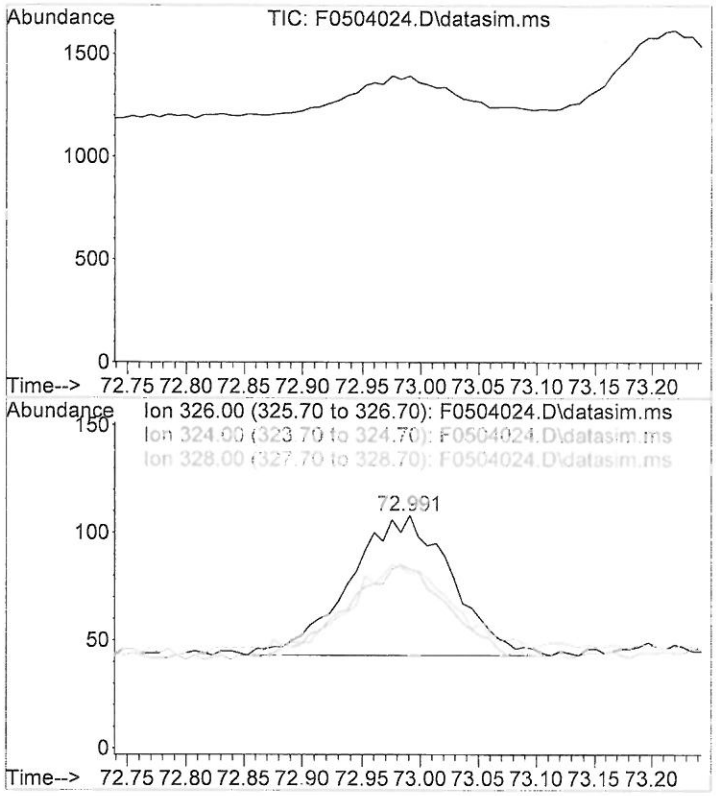
Ion	Ratio	Lower	Upper
360	100		
362	0.0	57.6	97.6#
358	0.0	31.9	71.9#



#127
CL5-BZ#122
Concen: 0.47 ng/mL
RT: 72.456 min Scan# 9402
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 251

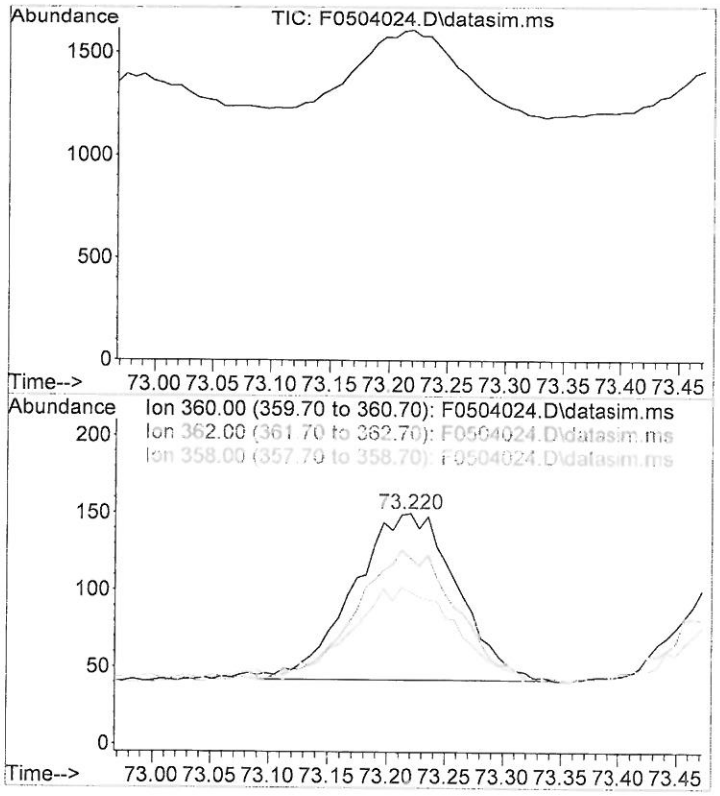
Ion	Ratio	Lower	Upper
326	100		
324	68.9	46.4	86.4
328	72.9	48.3	88.3



#129
CL5-BZ#114
Concen: 0.75 ng/mL
RT: 72.991 min Scan# 9472
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 394

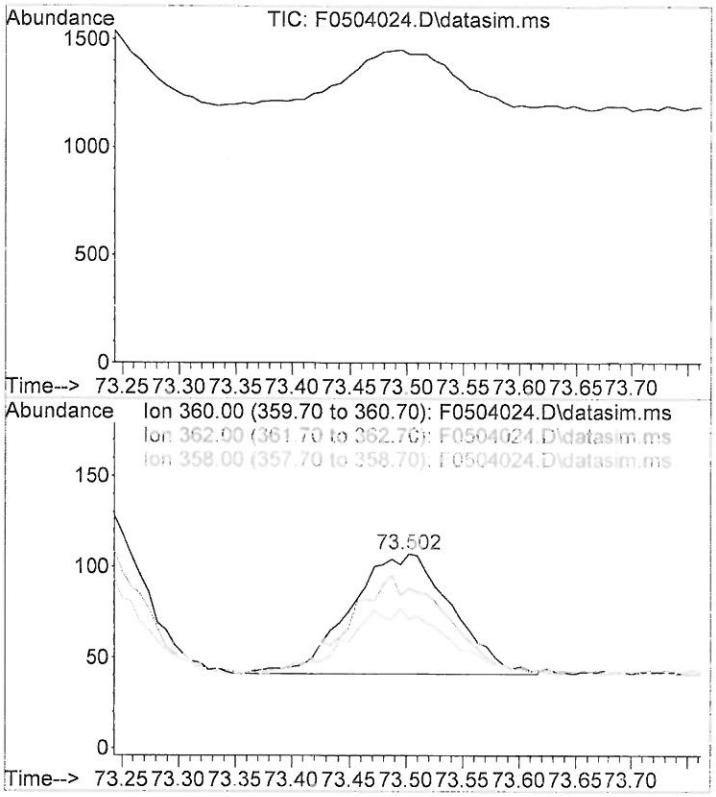
Ion	Ratio	Lower	Upper
326	100		
324	65.5	45.1	85.1
328	61.4	43.8	83.8



#131
CL6-BZ#153
Concen: 1.79 ng/mL
RT: 73.220 min Scan# 9502
Delta R.T. 0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 663

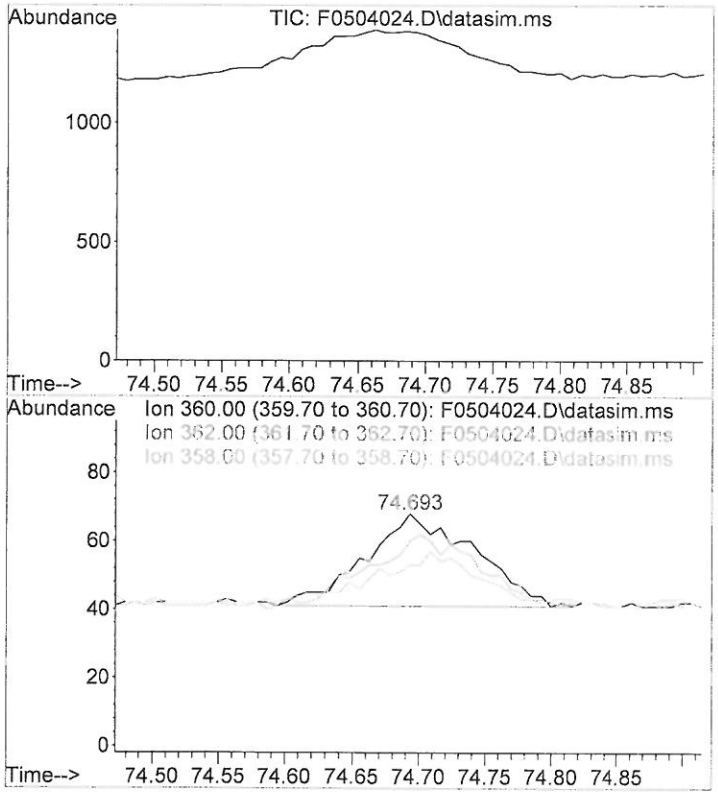
Ion	Ratio	Lower	Upper
360	100		
362	74.5	58.3	98.3
358	57.8	32.7	72.7



#132
CL6-BZ#132
Concen: 1.53 ng/mL
RT: 73.502 min Scan# 9539
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 408

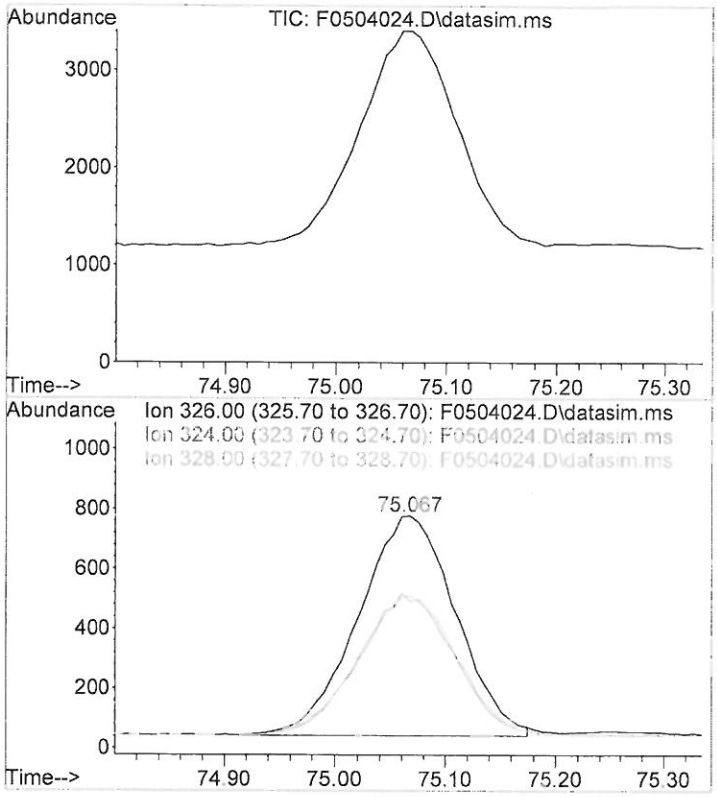
Ion	Ratio	Lower	Upper
360	100		
362	78.2	53.7	93.7
358	25.5	33.2	73.2#



#134
CL6-BZ#141
Concen: 0.50 ng/mL
RT: 74.693 min Scan# 9695
Delta R.T. -0.008 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 153

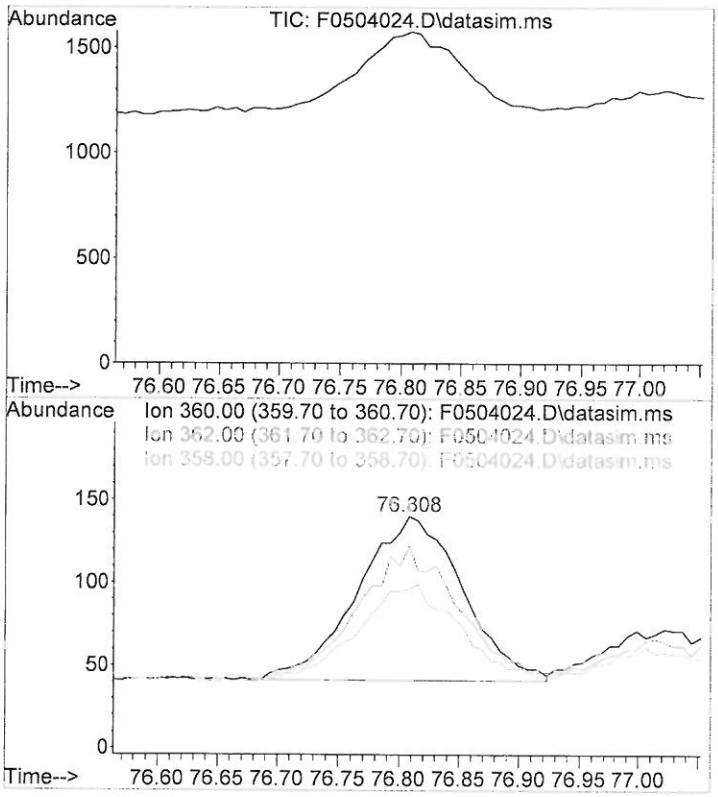
Ion	Ratio	Lower	Upper
360	100		
362	85.0	56.8	96.8
358	0.0	32.4	72.4#



#136
CL5-BZ#105
Concen: 6.62 ng/mL
RT: 75.067 min Scan# 9744
Delta R.T. 0.023 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:326 Resp: 4510

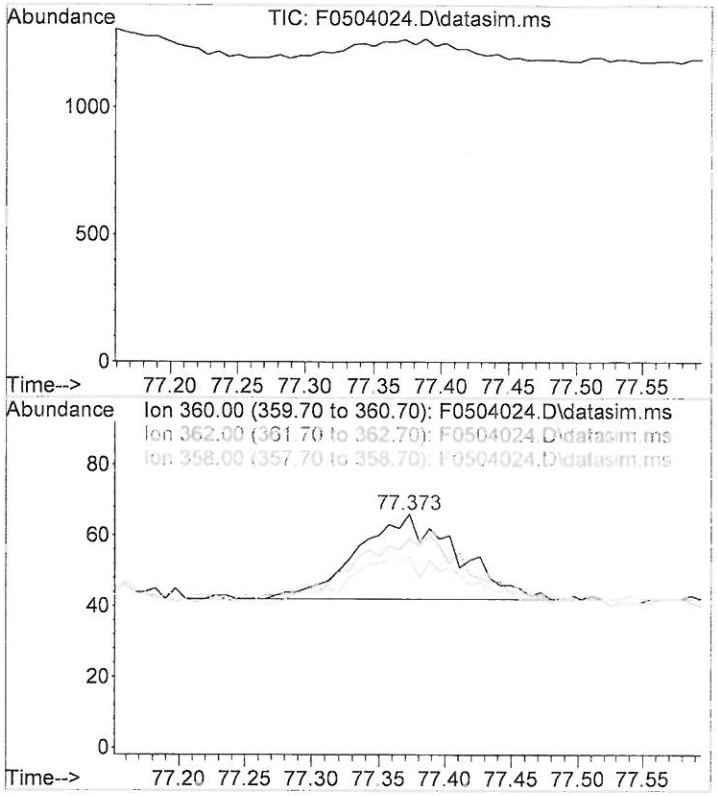
Ion	Ratio	Lower	Upper
326	100		
324	63.4	48.4	88.4
328	62.8	43.4	83.4



#142
CL6-BZ#138
Concen: 1.87 ng/mL
RT: 76.808 min Scan# 9972
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 597

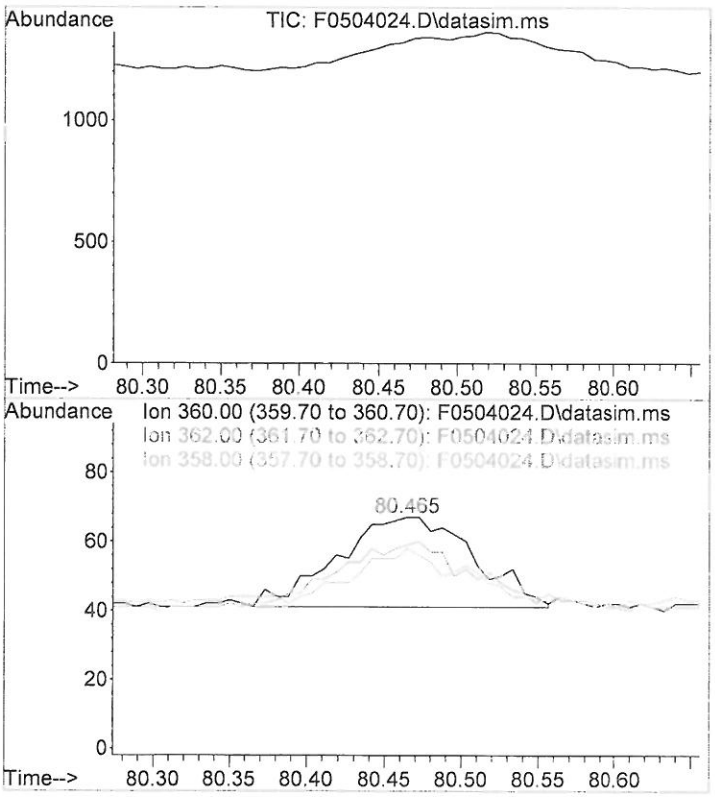
Ion	Ratio	Lower	Upper
360	100		
362	80.6	57.8	97.8
358	0.0	35.6	75.6#



#144
CL6-BZ#158
Concen: 0.28 ng/mL
RT: 77.373 min Scan# 10046
Delta R.T. 0.015 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 126

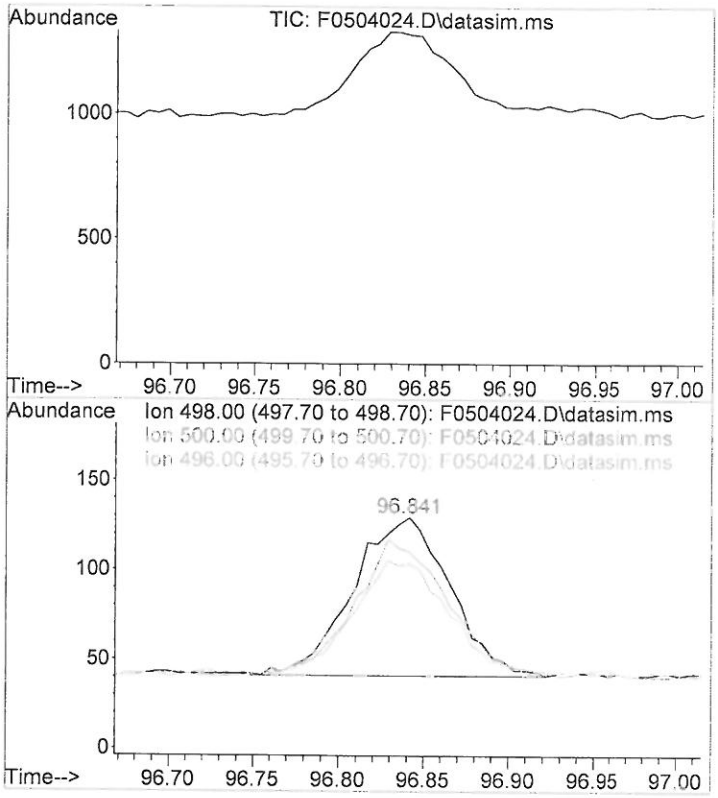
Ion	Ratio	Lower	Upper
360	100		
362	85.7	57.8	97.8
358	0.0	33.7	73.7#



#152
CL6-BZ#128/#162
Concen: 0.49 ng/mL
RT: 80.465 min Scan# 10451
Delta R.T. 0.031 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:360 Resp: 159

Ion	Ratio	Lower	Upper
360	100		
362	78.0	55.6	95.6
358	0.0	31.0	71.0#



#185
CL10-BZ#209
Concen: 1.74 ng/mL
RT: 96.841 min Scan# 12895
Delta R.T. 0.012 min
Lab File: F0504024.D
Acq: 6 May 2017 4:16 am

Tgt Ion:498 Resp: 348

Ion	Ratio	Lower	Upper
498	100		
500	85.3	64.3	104.3
496	69.8	50.9	90.9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504022.D
Acq On : 6 May 2017 12:43 am
Operator : CJM
Sample : 17D0859-02@100X Inst : GCMSSV6
Misc :
ALS Vial : 40 Sample Multiplier: 1

Quant Time: May 08 12:59:54 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

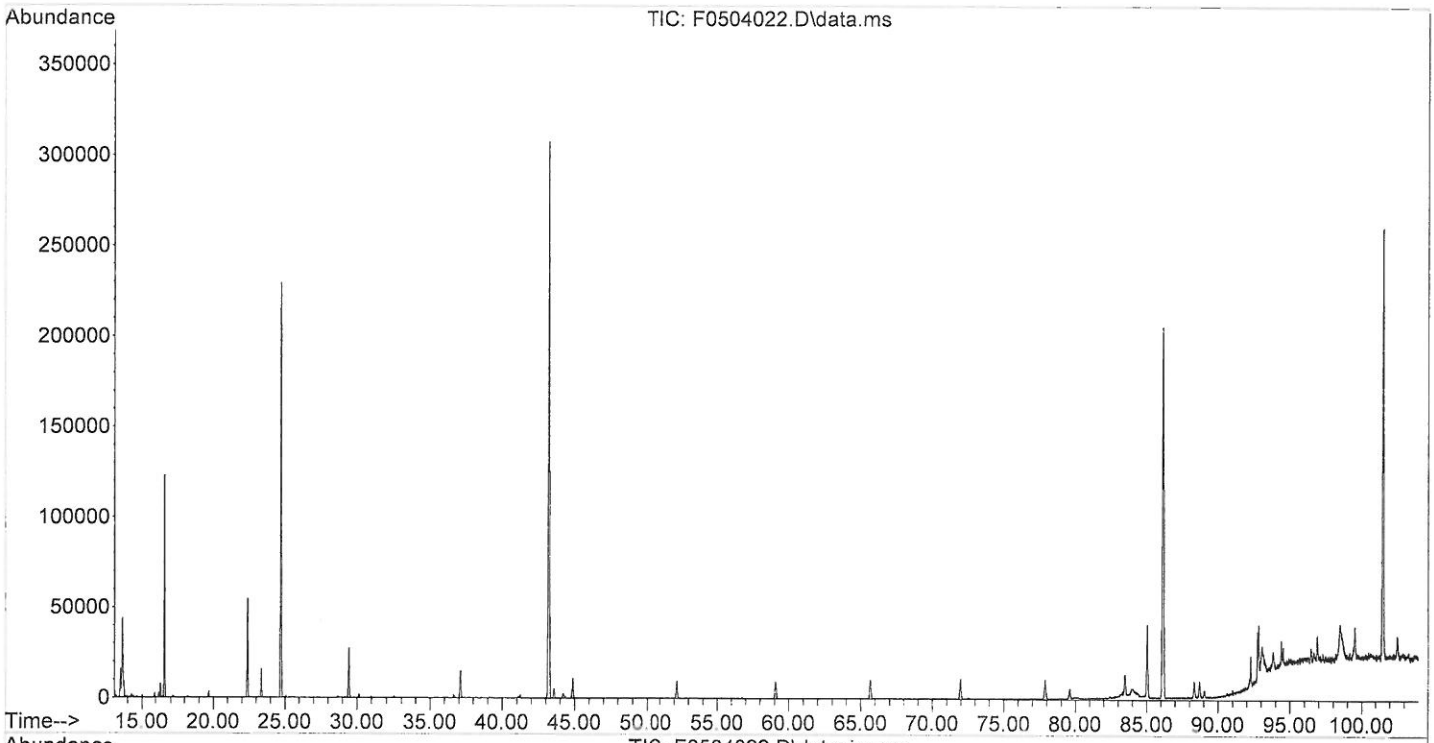
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Phenanthrene-D10	43.225	188	894446	500.000	ng/mL	0.00
81) Chrysene-D12	86.145	240	594899	500.000	ng/mL	0.00
177) Perylene-D12	101.500	264	540872	500.000	ng/mL	0.02
System Monitoring Compounds						
6) TCMX	31.945	244	114	0.507	ng/mL	-0.02
Target Compounds						Qvalue
2] CL1-BZ#1	24.715	188	10283	10.721	ng/mL	98
3] CL1-BZ#2	29.168	188	1129	0.914	ng/mL	98
4] CL1-BZ#3	30.148	188	5485	4.861	ng/mL	98
5] CL2-BZ#4/#10	30.991	222	1450	1.967	ng/mL#	73
7] CL2-BZ#9	34.360	222	570	0.540	ng/mL#	81
8] CL2-BZ#7	34.533	222	570	0.578	ng/mL	97
9] CL2-BZ#6	35.429	222	1267	1.179	ng/mL	99
10] CL2-BZ#5	36.267	222	478	0.502	ng/mL	99
11] CL2-BZ#8	36.639	222	3915	3.481	ng/mL	99
15] CL3-BZ#18	41.072	256	158	0.327	ng/mL	96
18] CL2-BZ#12	42.057	222	174	0.171	ng/mL	91
20] CL2-BZ#13	42.706	222	264	0.232	ng/mL	97
24] CL2-BZ#15	44.156	222	751	0.716	ng/mL	99
33] CL3-BZ#31	48.111	256	120	0.138	ng/mL#	62
34] CL3-BZ#28	48.508	256	112	0.134	ng/mL#	61
99] CL5-BZ#116	65.692	326	262	0.526	ng/mL#	34

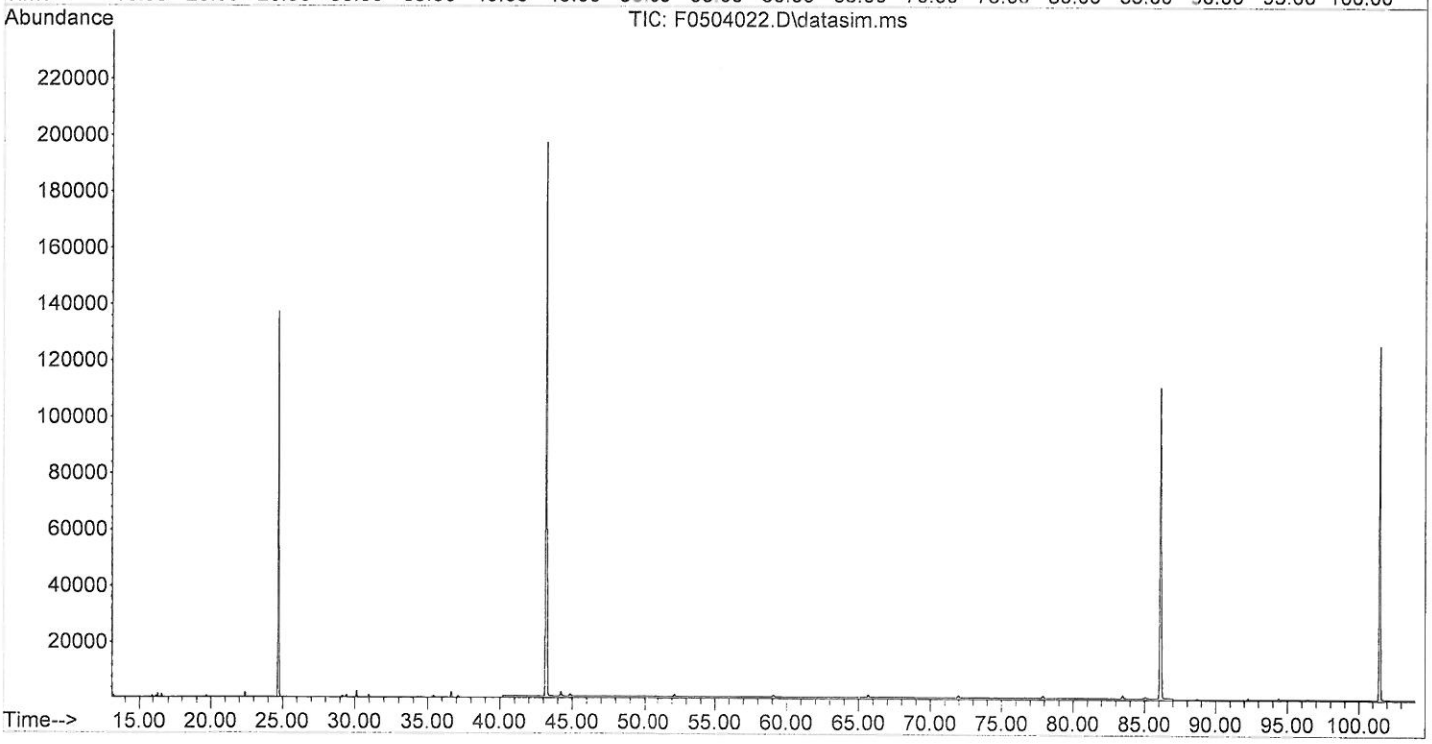
(#) = qualifier out of range (m) = manual integration (+) = signals summed

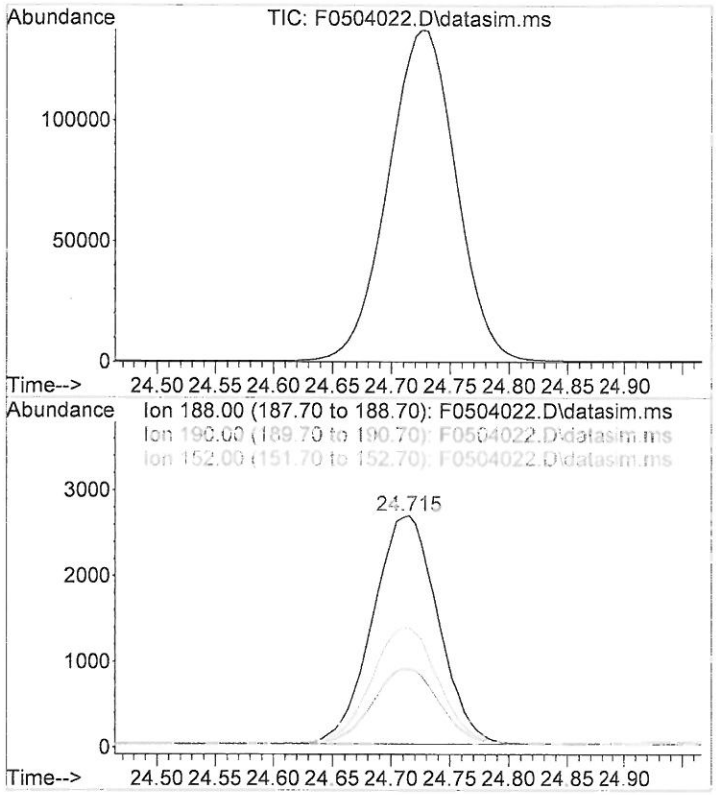
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504022.D
Acq On : 6 May 2017 12:43 am
Operator : CJM
Sample : 17D0859-02@100X Inst : GCMSSV6
Misc :
ALS Vial : 40 Sample Multiplier: 1

Quant Time: May 08 12:59:54 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration



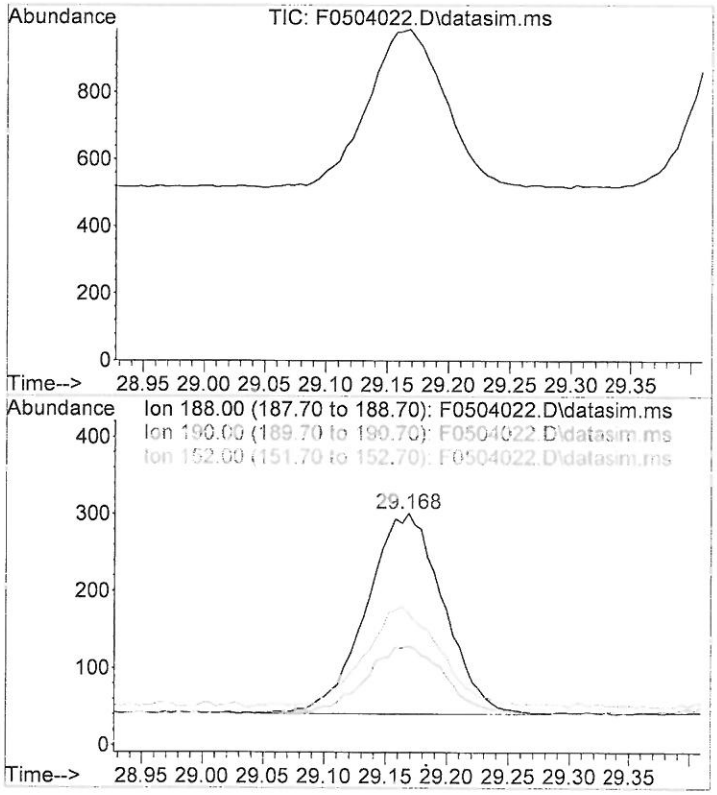




#2
CL1-BZ#1
Concen: 10.72 ng/mL
RT: 24.715 min Scan# 2220
Delta R.T. -0.005 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:188 Resp: 10283

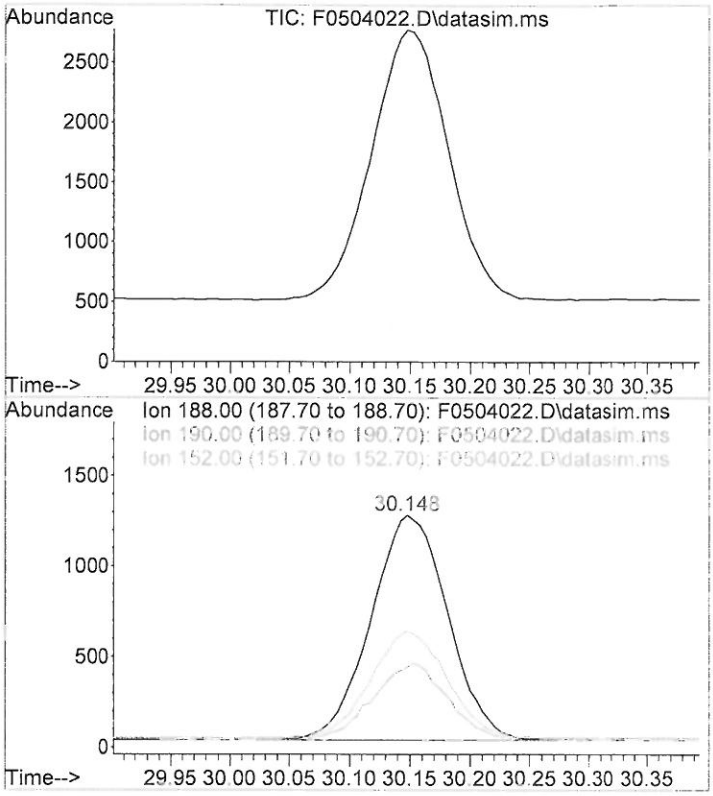
Ion	Ratio	Lower	Upper
188	100		
190	33.4	13.8	53.8
152	51.2	32.8	72.8



#3
CL1-BZ#2
Concen: 0.91 ng/mL
RT: 29.168 min Scan# 3070
Delta R.T. -0.005 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:188 Resp: 1129

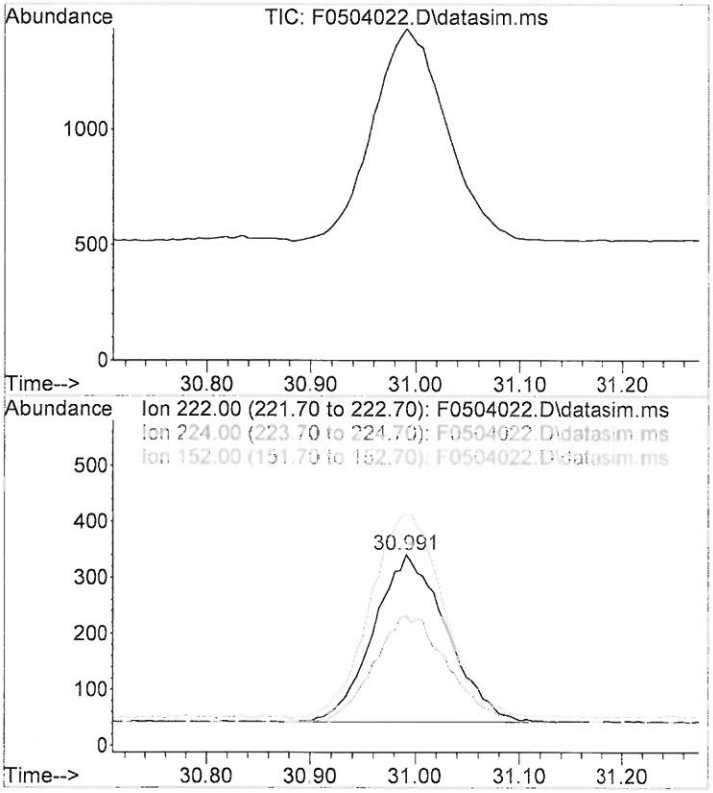
Ion	Ratio	Lower	Upper
188	100		
190	34.9	14.2	54.2
152	47.9	29.3	69.3



#4
CL1-BZ#3
Concen: 4.86 ng/mL
RT: 30.148 min Scan# 3257
Delta R.T. -0.010 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:188 Resp: 5485

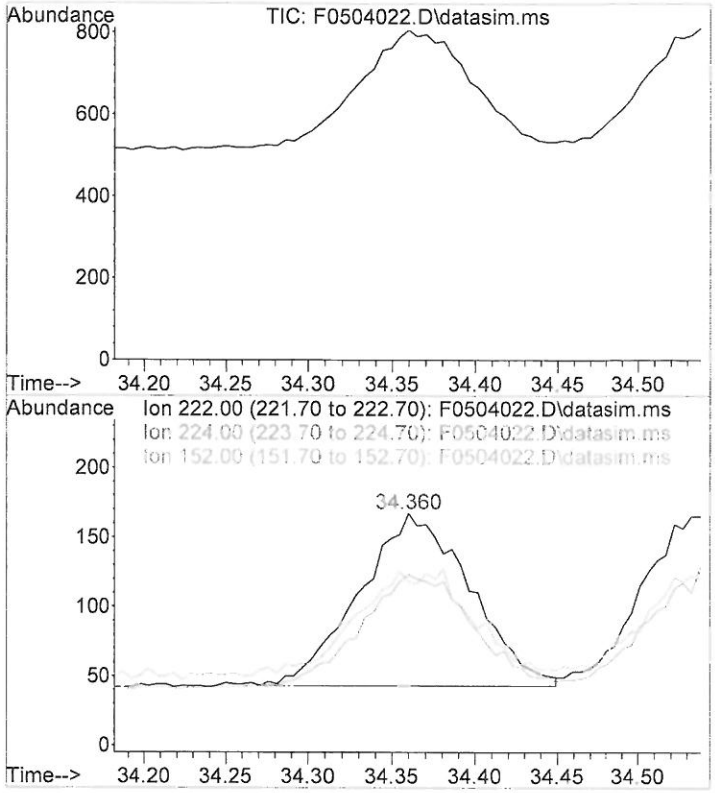
Ion	Ratio	Lower	Upper
188	100		
190	32.6	13.5	53.5
152	47.8	29.3	69.3



#5
CL2-BZ#4/#10
Concen: 1.97 ng/mL
RT: 30.991 min Scan# 3418
Delta R.T. -0.042 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:222 Resp: 1450

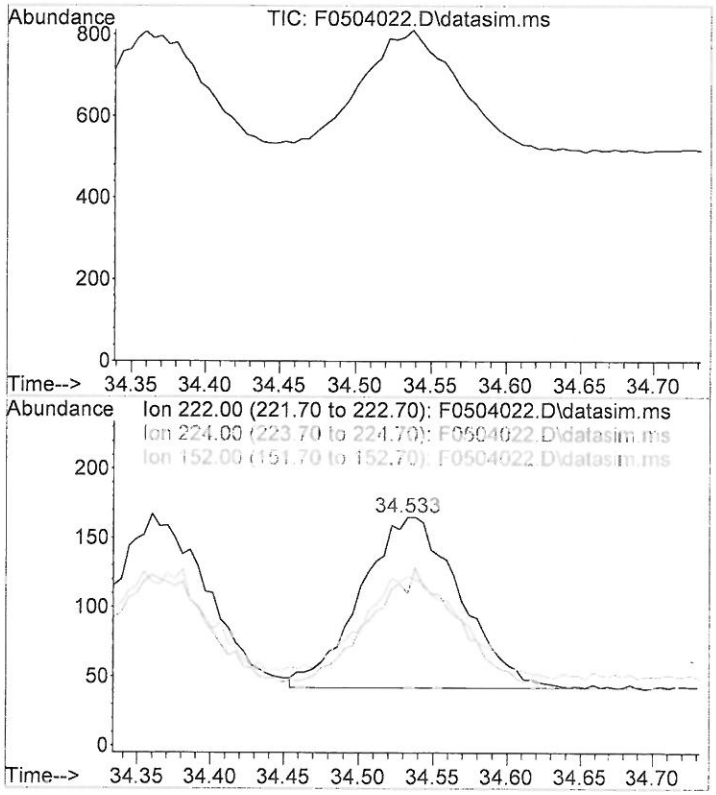
Ion	Ratio	Lower	Upper
222	100		
224	63.5	45.4	85.4
152	125.0	63.9	103.9#



#7
CL2-BZ#9
Concen: 0.54 ng/mL
RT: 34.360 min Scan# 4061
Delta R.T. -0.016 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:222 Resp: 570

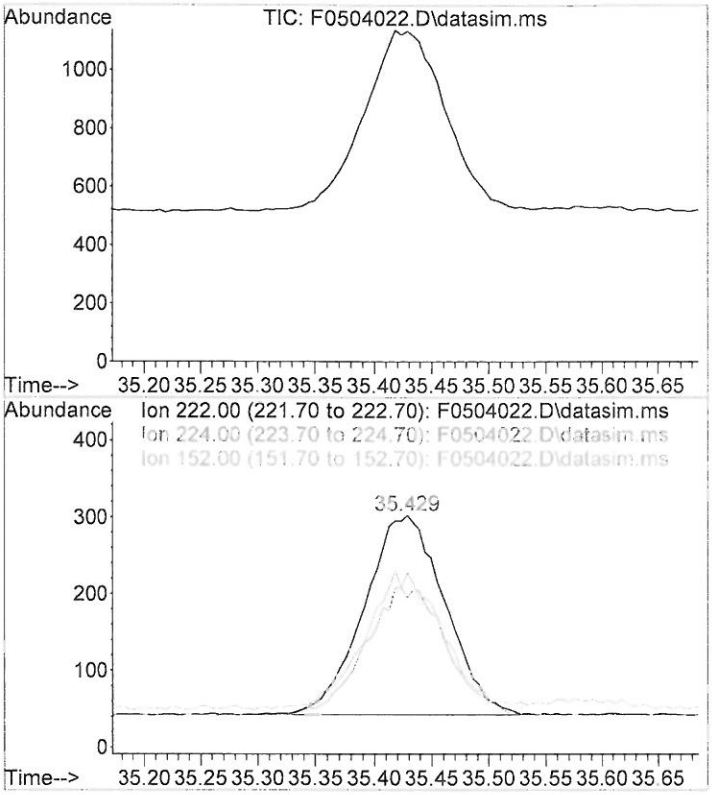
Ion	Ratio	Lower	Upper
222	100		
224	66.7	44.5	84.5
152	34.4	41.2	81.2#



#8
CL2-BZ#7
Concen: 0.58 ng/mL
RT: 34.533 min Scan# 4094
Delta R.T. -0.016 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:222 Resp: 570

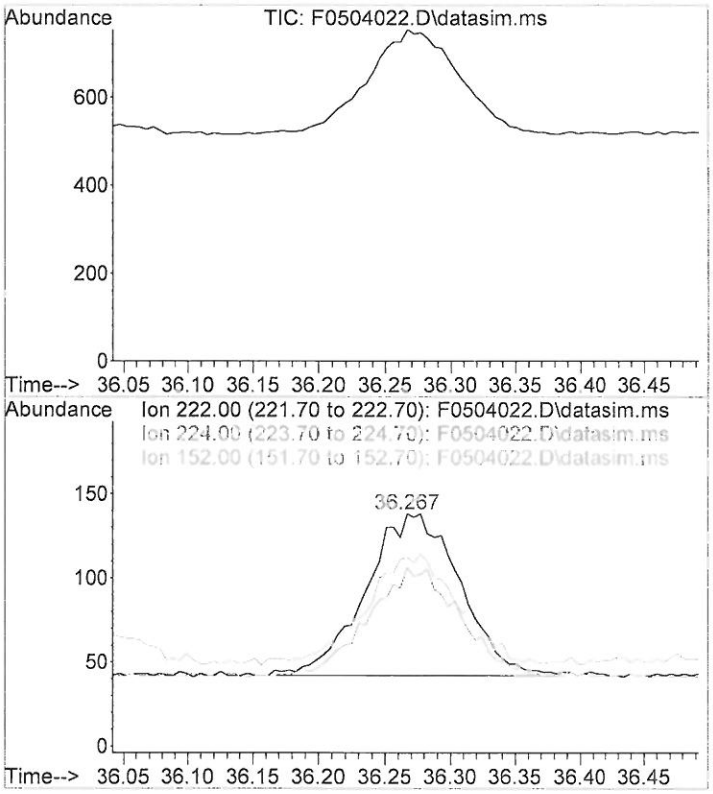
Ion	Ratio	Lower	Upper
222	100		
224	65.3	43.4	83.4
152	60.4	38.4	78.4



#9
CL2-BZ#6
Concen: 1.18 ng/mL
RT: 35.429 min Scan# 4265
Delta R.T. -0.005 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:222 Resp: 1267

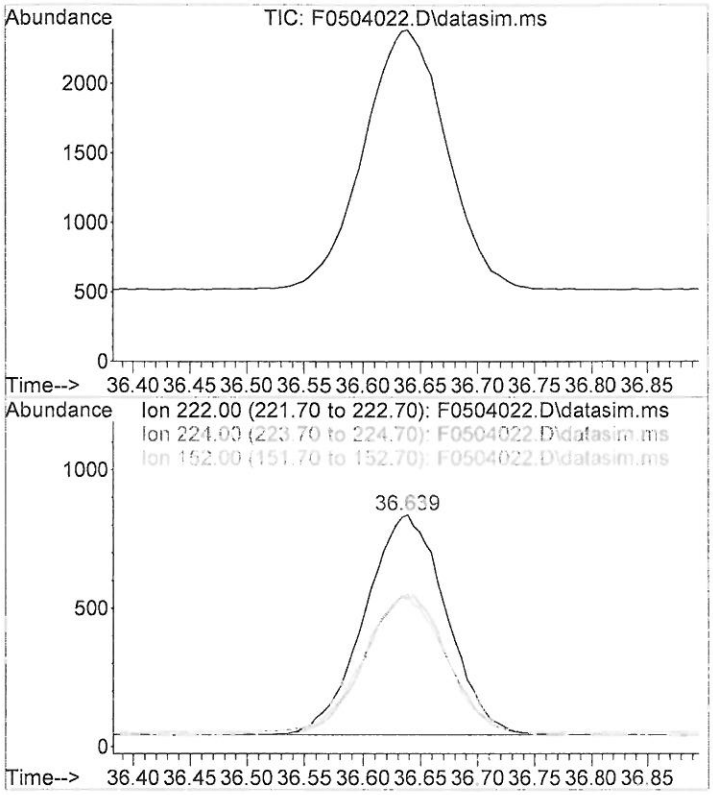
Ion	Ratio	Lower	Upper
222	100		
224	63.7	44.5	84.5
152	65.6	45.2	85.2



#10
CL2-BZ#5
Concen: 0.50 ng/mL
RT: 36.267 min Scan# 4425
Delta R.T. -0.016 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:222 Resp: 478

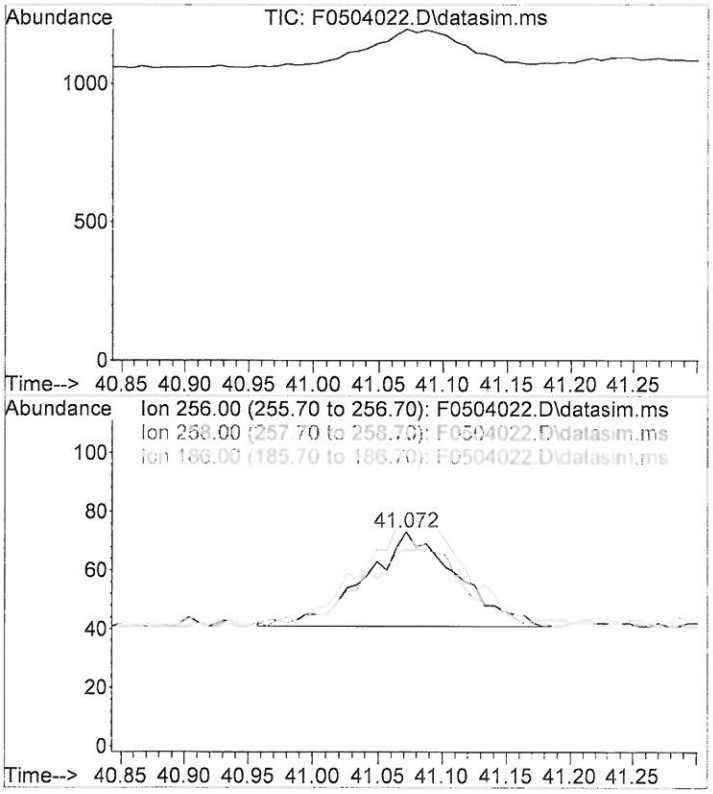
Ion	Ratio	Lower	Upper
222	100		
224	66.3	44.4	84.4
152	65.5	45.6	85.6



#11
CL2-BZ#8
Concen: 3.48 ng/mL
RT: 36.639 min Scan# 4496
Delta R.T. -0.005 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:222 Resp: 3915

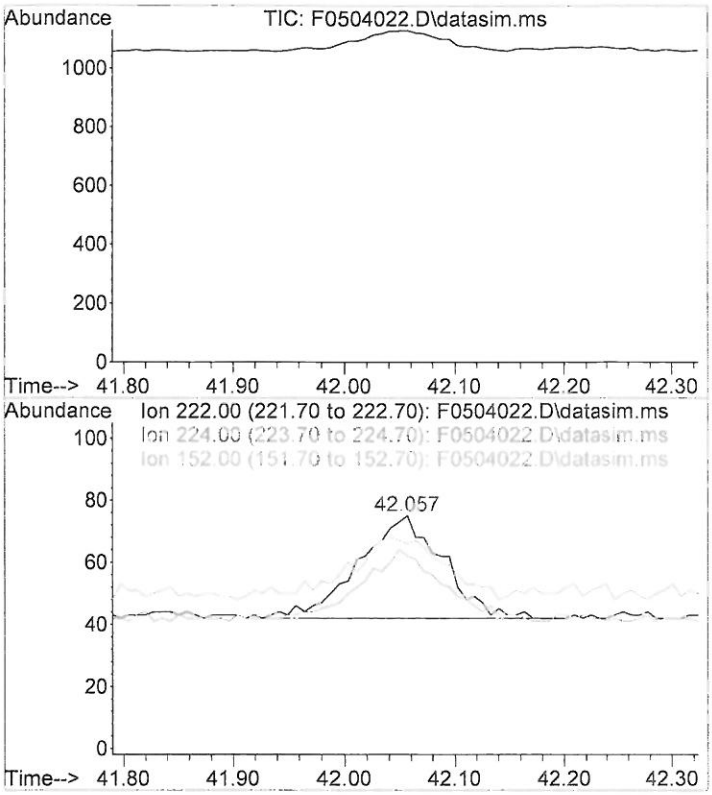
Ion	Ratio	Lower	Upper
222	100		
224	64.9	43.9	83.9
152	62.6	43.3	83.3



#15
CL3-BZ#18
Concen: 0.33 ng/mL
RT: 41.072 min Scan# 5291
Delta R.T. -0.008 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:256 Resp: 158

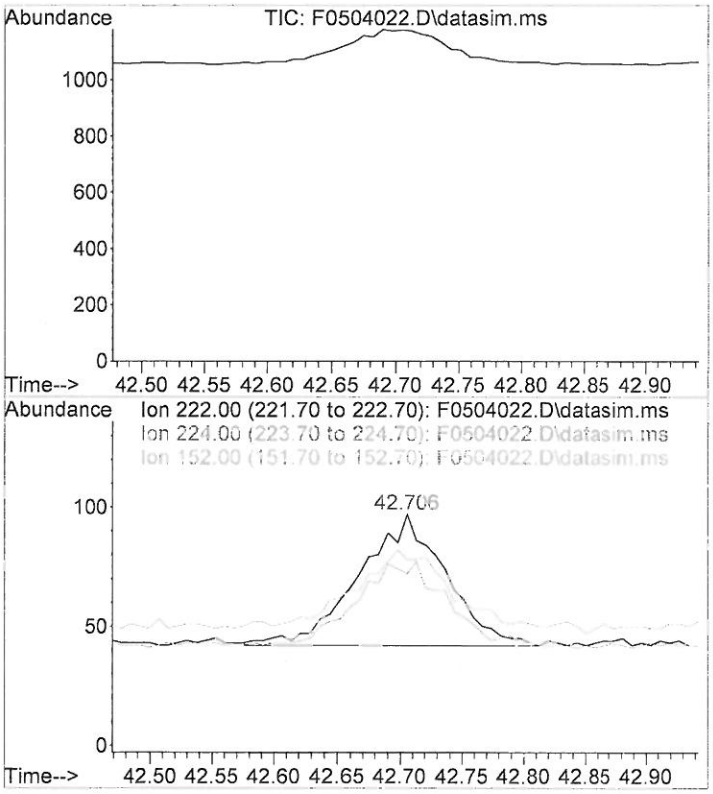
Ion	Ratio	Lower	Upper
256	100		
258	93.0	74.7	114.7
186	120.3	106.5	146.5



#18
CL2-BZ#12
Concen: 0.17 ng/mL
RT: 42.057 min Scan# 5420
Delta R.T. 0.000 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:222 Resp: 174

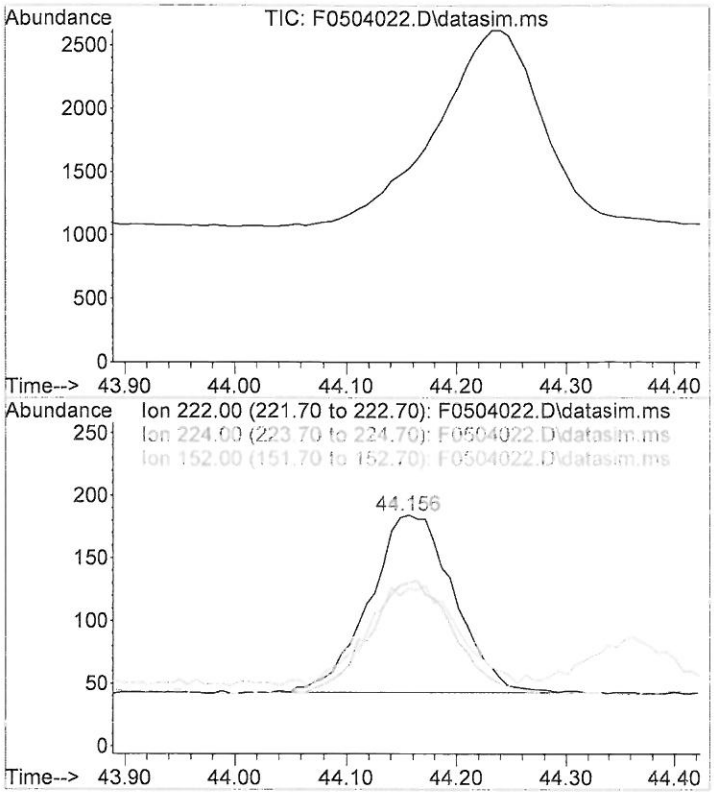
Ion	Ratio	Lower	Upper
222	100		
224	69.5	45.1	85.1
152	66.7	37.2	77.2



#20
CL2-BZ#13
Concen: 0.23 ng/mL
RT: 42.706 min Scan# 5505
Delta R.T. 0.000 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:222 Resp: 264

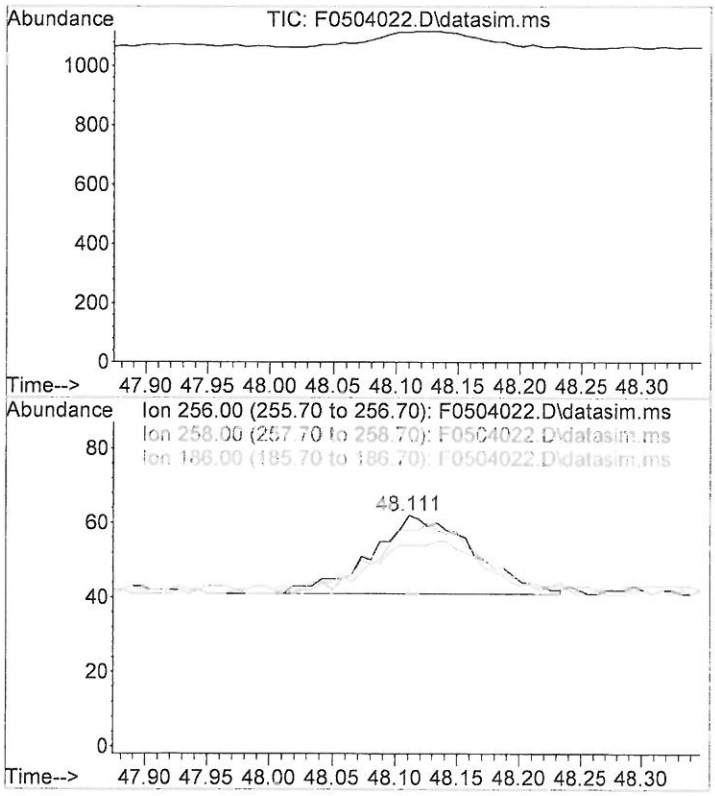
Ion	Ratio	Lower	Upper
222	100		
224	65.5	43.4	83.4
152	60.2	37.7	77.7



#24
CL2-BZ#15
Concen: 0.72 ng/mL
RT: 44.156 min Scan# 5695
Delta R.T. -0.008 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:222 Resp: 751

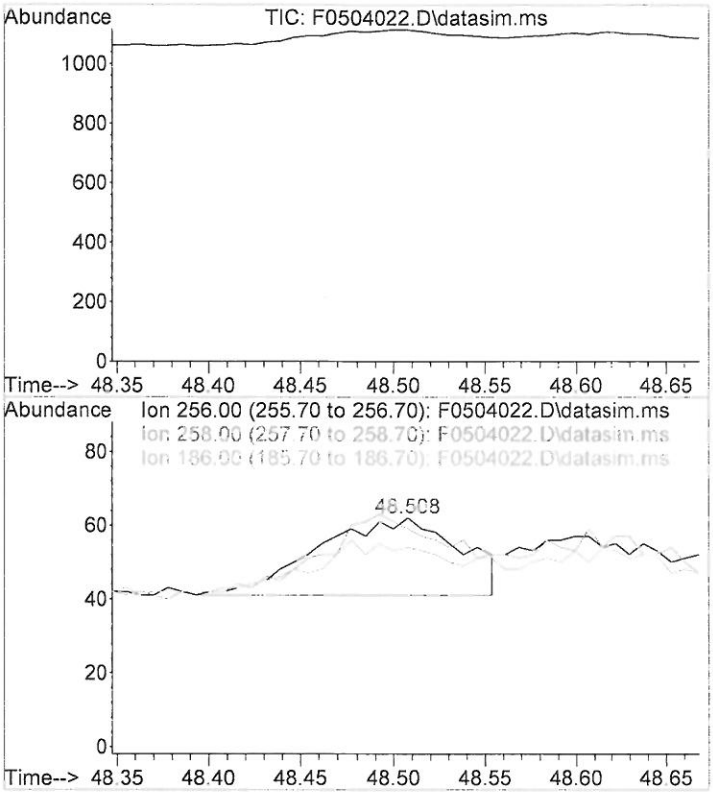
Ion	Ratio	Lower	Upper
222	100		
224	63.2	44.3	84.3
152	57.5	37.4	77.4



#33
CL3-BZ#31
Concen: 0.14 ng/mL
RT: 48.111 min Scan# 6213
Delta R.T. -0.023 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:256 Resp: 120

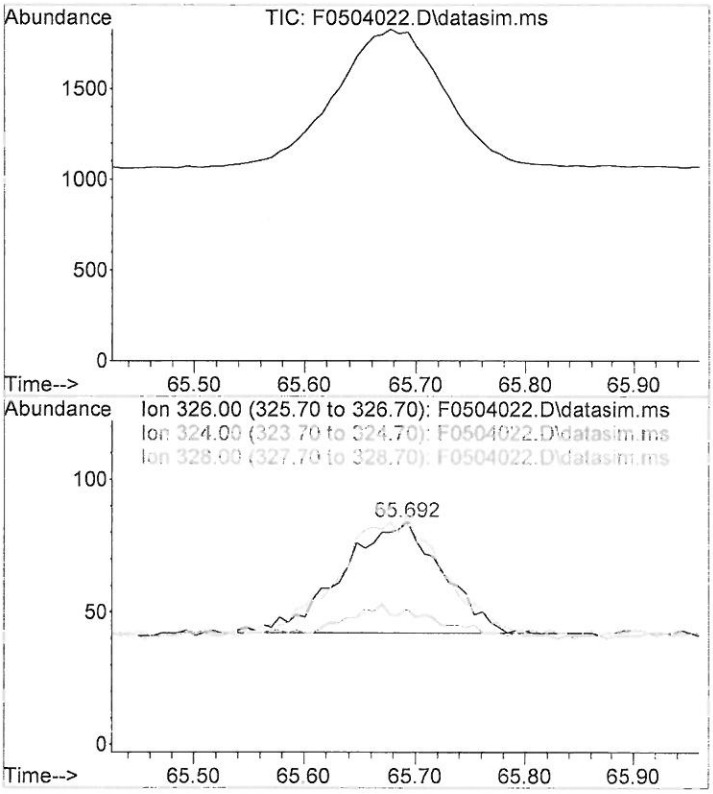
Ion	Ratio	Lower	Upper
256	100		
258	89.2	76.4	116.4
186	0.0	46.5	86.5#



#34
CL3-BZ#28
Concen: 0.13 ng/mL
RT: 48.508 min Scan# 6265
Delta R.T. 0.008 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:256 Resp: 112

Ion	Ratio	Lower	Upper
256	100		
258	106.3	76.6	116.6
186	0.0	45.9	85.9#



#99
CL5-BZ#116
Concen: 0.53 ng/mL
RT: 65.692 min Scan# 8516
Delta R.T. 0.008 min
Lab File: F0504022.D
Acq: 6 May 2017 12:43 am

Tgt Ion:326 Resp: 262

Ion	Ratio	Lower	Upper
326	100		
324	0.0	44.6	84.6#
328	106.5	46.0	86.0#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504025.D
Acq On : 6 May 2017 6:03 am
Operator : CJM
Sample : 17D0859-02 Inst : GCMSSV6
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: May 08 13:06:01 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Phenanthrene-D10	43.227	188	822889	500.000 ng/mL	0.00
81) Chrysene-D12	86.147	240	581652	500.000 ng/mL	0.01
177) Perylene-D12	101.503	264	534569	500.000 ng/mL	0.02
System Monitoring Compounds					
6) TCMX	31.961	244	5409	26.150 ng/mL	0.00
Target Compounds					Qvalue
2] CL1-BZ#1	24.715	188	439014	497.530 ng/mL	98
3] CL1-BZ#2	29.163	188	64022	56.344 ng/mL	99
4] CL1-BZ#3	30.153	188	316690	305.044 ng/mL	98
5] CL2-BZ#4/#10	30.997	222	88276	130.165 ng/mL#	75
7] CL2-BZ#9	34.370	222	43629	44.921 ng/mL	100
8] CL2-BZ#7	34.538	222	41445	45.688 ng/mL	98
9] CL2-BZ#6	35.429	222	99693	100.811 ng/mL	100
10] CL2-BZ#5	36.272	222	36544	41.706 ng/mL	99
11] CL2-BZ#8	36.644	222	312722	302.213 ng/mL	99
12] CL3-BZ#19	38.184	256	1227	3.069 ng/mL	98
15] CL3-BZ#18	41.082	256	10054	22.610 ng/mL	95
16] CL2-BZ#11	41.319	222	3148	3.084 ng/mL	88
17] CL3-BZ#17	41.464	256	4594	9.177 ng/mL	96
18] CL2-BZ#12	42.052	222	14362	15.349 ng/mL	99
19] CL3-BZ#27	42.204	256	1118	1.540 ng/mL	91
20] CL2-BZ#13	42.700	222	23430	22.349 ng/mL	98
21] CL3-BZ#24	42.693	256	526	0.816 ng/mL#	1
22] CL3-BZ#16	43.365	256	4199	10.899 ng/mL#	16
23] CL3-BZ#32	43.838	256	3386	4.326 ng/mL	97
24] CL2-BZ#15	44.182	222	71068	73.650 ng/mL	99
28] CL3-BZ#29	45.456	256	354	0.459 ng/mL	95
30] CL3-BZ#26	46.602	256	1942	2.517 ng/mL	97
31] CL3-BZ#25	46.968	256	1347	1.950 ng/mL	98
32] CL4-BZ#53	47.930	292	455	1.064 ng/mL	88
33] CL3-BZ#31	48.128	256	6896	8.604 ng/mL	99
34] CL3-BZ#28	48.495	256	6401	8.352 ng/mL	97
35] CL3-BZ#33/#21/#20	48.617	256	8464m	11.468 ng/mL	
36] CL4-BZ#51	48.716	292	140	0.308 ng/mL#	71
37] CL4-BZ#45	49.770	292	404	0.992 ng/mL	99
38] CL3-BZ#22	50.274	256	3204	4.631 ng/mL	98
39] CL4-BZ#46	50.510	292	156	0.416 ng/mL#	72
44] CL4-BZ#52	51.732	292	2641	5.480 ng/mL	98
45] CL4-BZ#48	51.946	292	357	0.827 ng/mL#	70
46] CL4-BZ#49	52.312	292	1098	2.181 ng/mL	98
48] CL4-BZ#47/#65/#62	52.846	292	323	0.586 ng/mL	96
52] CL4-BZ#44	54.114	292	1539	4.241 ng/mL	92
54] CL4-BZ#42	54.686	292	312	0.871 ng/mL	91
55] CL4-BZ#71	55.152	292	499	0.828 ng/mL	96
56] CL3-BZ#35	55.381	256	578	0.770 ng/mL#	81
57] CL4-BZ#41	55.503	292	162	0.415 ng/mL#	68
61] CL4-BZ#64	56.457	292	819	1.421 ng/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504025.D
Acq On : 6 May 2017 6:03 am
Operator : CJM
Sample : 17D0859-02 Inst : GCMSSV6
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: May 08 13:06:01 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

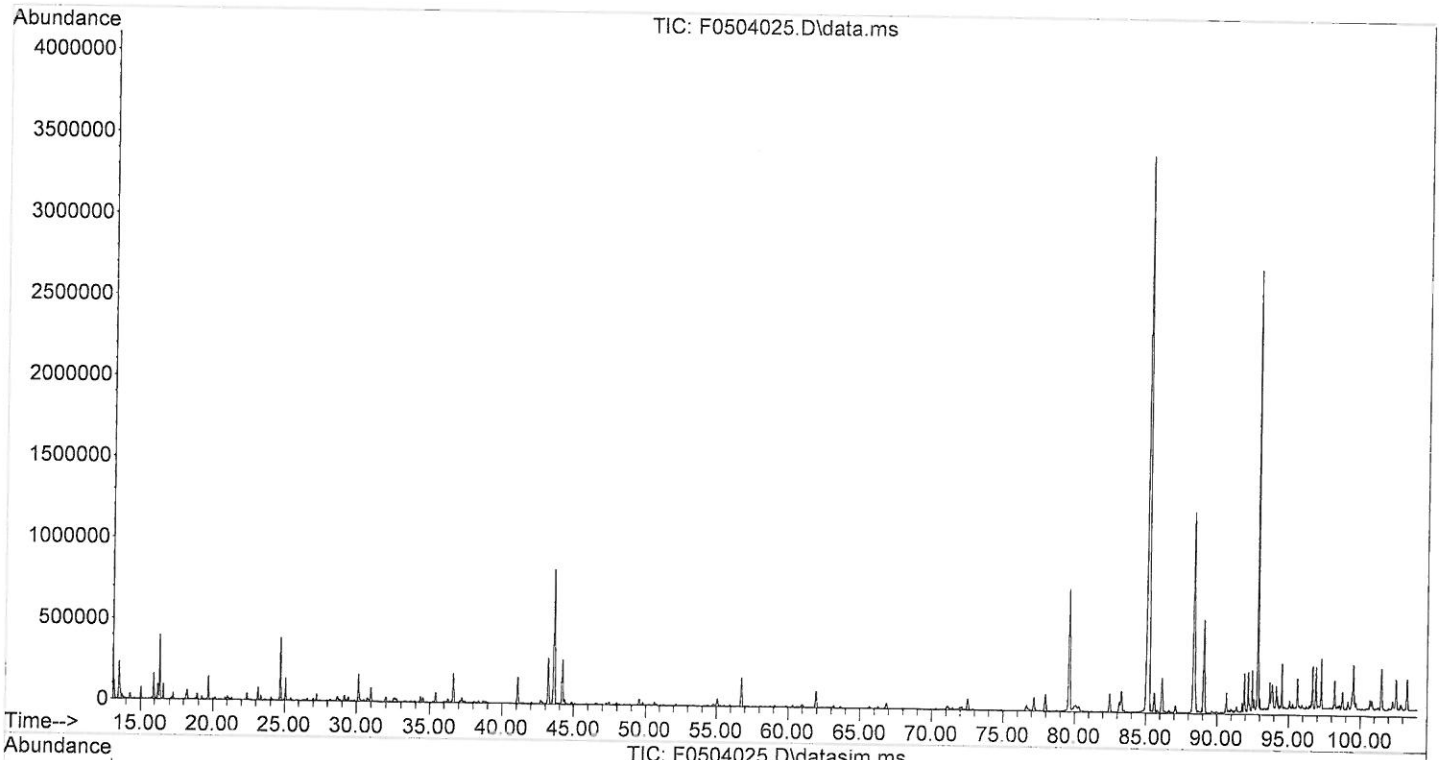
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
62] CL4-BZ#40/#68	56.587	292	972	2.076 ng/mL	98
63] CL3-BZ#37	57.053	256	765	1.116 ng/mL	94
74] CL5-BZ#88/#95	59.511	326	758	1.932 ng/mL	95
78] CL4-BZ#70	60.236	292	1240	1.742 ng/mL	92
80] CL4-BZ#66	60.733	292	666	1.017 ng/mL#	73
84] CL5-BZ#89/#84	62.176	326	235	0.722 ng/mL#	55
85] CL4-BZ#56	62.420	292	1873	3.168 ng/mL	98
86] CL5-BZ#90/#101	62.603	326	558	1.427 ng/mL	99
88] CL4-BZ#60	63.237	292	206	0.278 ng/mL#	67
89] CL5-BZ#99	63.267	326	227	0.535 ng/mL	94
96] CL5-BZ#97	64.985	326	156	0.492 ng/mL	93
99] CL5-BZ#116	65.672	326	227	0.466 ng/mL#	27
100] CL5-BZ#87	66.252	326	490	1.347 ng/mL#	73
105] CL5-BZ#120/#110	67.466	326	589	1.136 ng/mL	97
112] CL4-BZ#77	69.611	292	270	0.405 ng/mL	87
114] CL6-BZ#140	70.314	360	2622m	8.698 ng/mL	
115] CL5-BZ#124	70.306	326	355	0.669 ng/mL#	78
151] CL7-BZ#185	80.139	394	375	2.049 ng/mL#	84
185] CL10-BZ#209	96.831	498	313	1.762 ng/mL	97

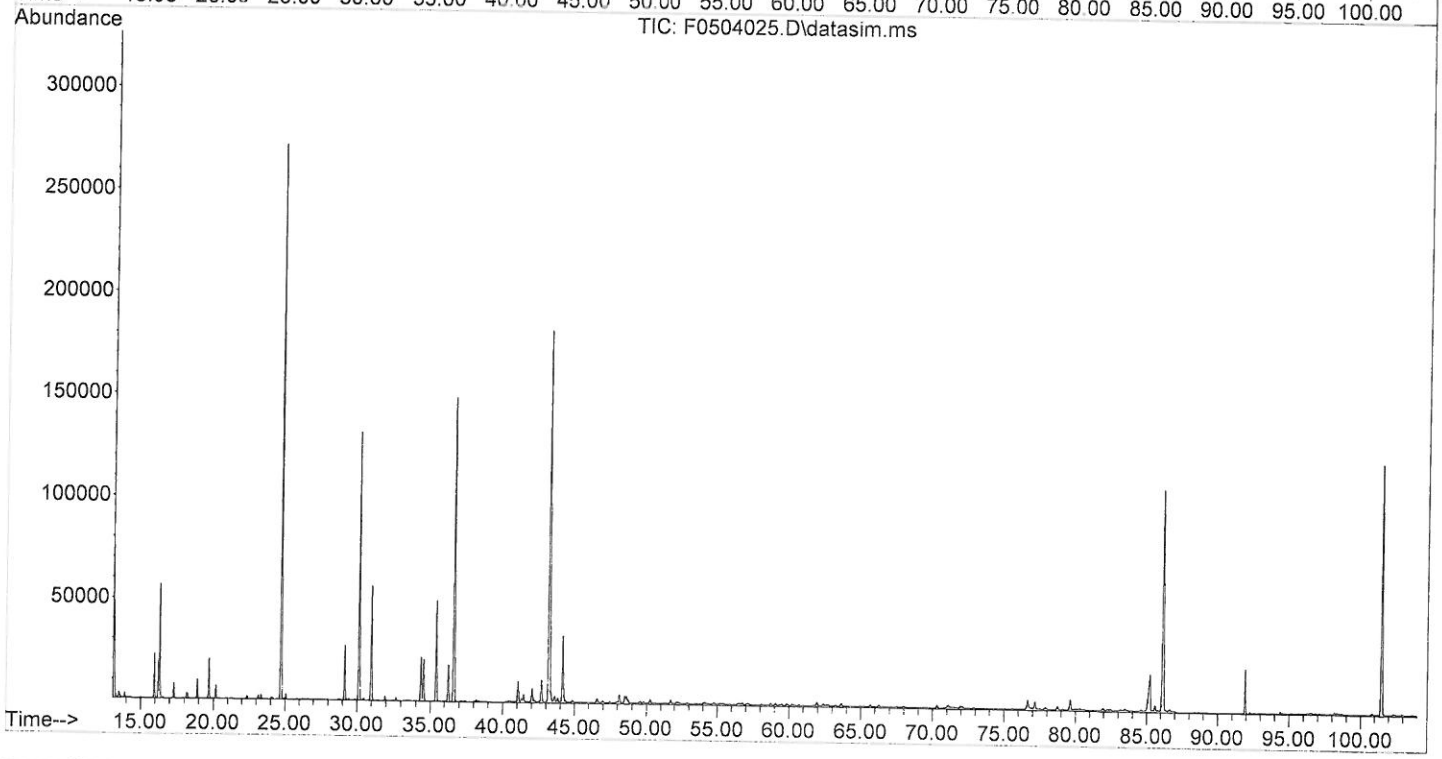
(#) = qualifier out of range (m) = manual integration (+) = signals summed

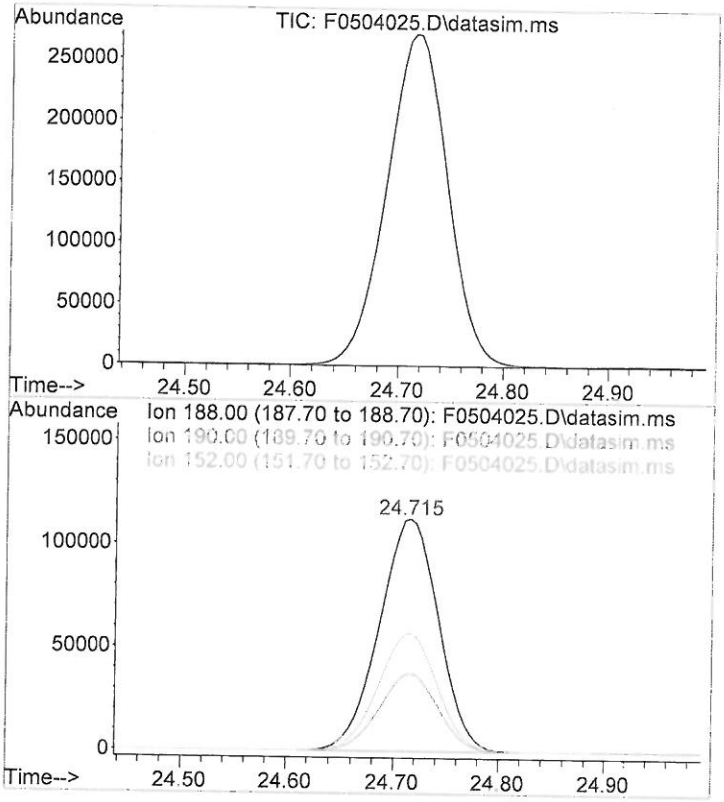
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504025.D
Acq On : 6 May 2017 6:03 am
Operator : CJM
Sample : 17D0859-02 Inst : GCMSSV6
Misc :
ALS Vial : 35 Sample Multiplier: 1

Quant Time: May 08 13:06:01 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration



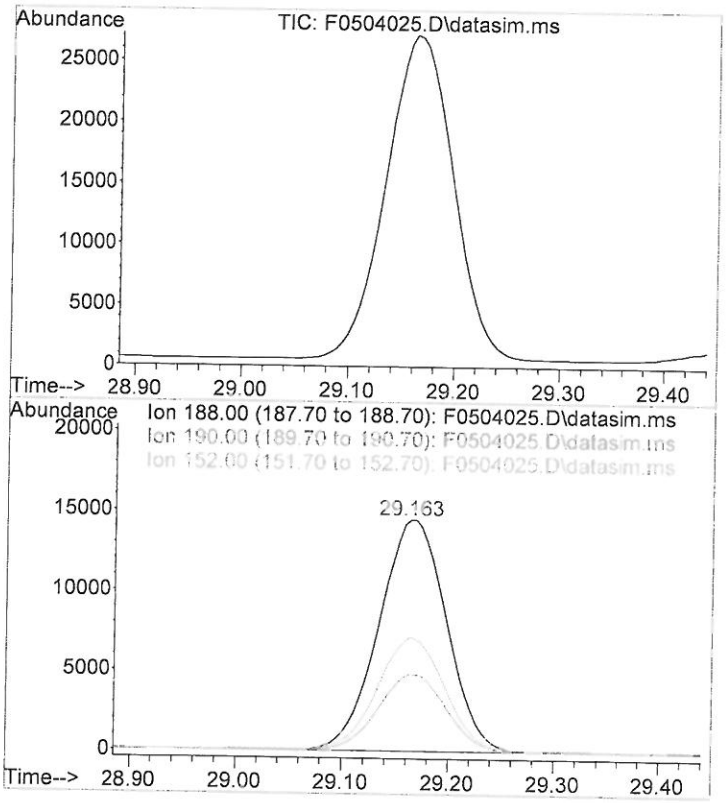




#2
CL1-BZ#1
Concen: 497.53 ng/mL
RT: 24.715 min Scan# 2220
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:188 Resp: 439014

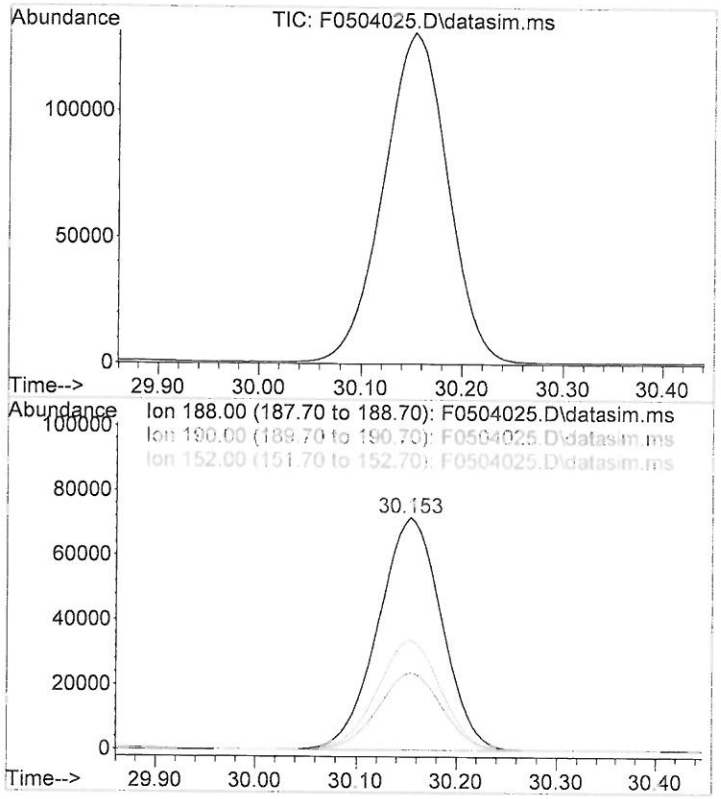
Ion	Ratio	Lower	Upper
188	100		
190	33.3	13.8	53.8
152	50.8	32.8	72.8



#3
CL1-BZ#2
Concen: 56.34 ng/mL
RT: 29.163 min Scan# 3069
Delta R.T. -0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:188 Resp: 64022

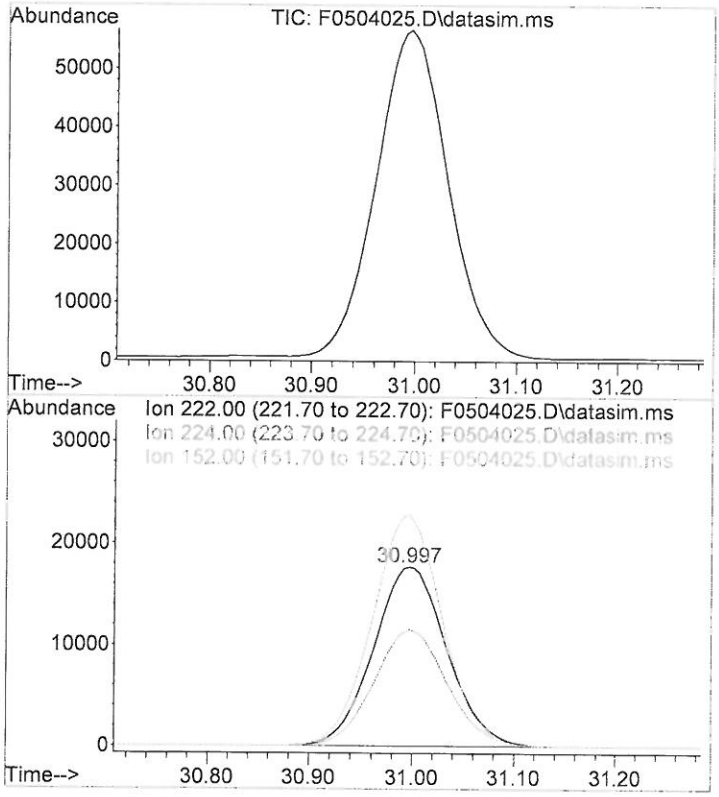
Ion	Ratio	Lower	Upper
188	100		
190	33.3	14.2	54.2
152	48.4	29.3	69.3



#4
CL1-BZ#3
Concen: 305.04 ng/mL
RT: 30.153 min Scan# 3258
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:188 Resp: 316690

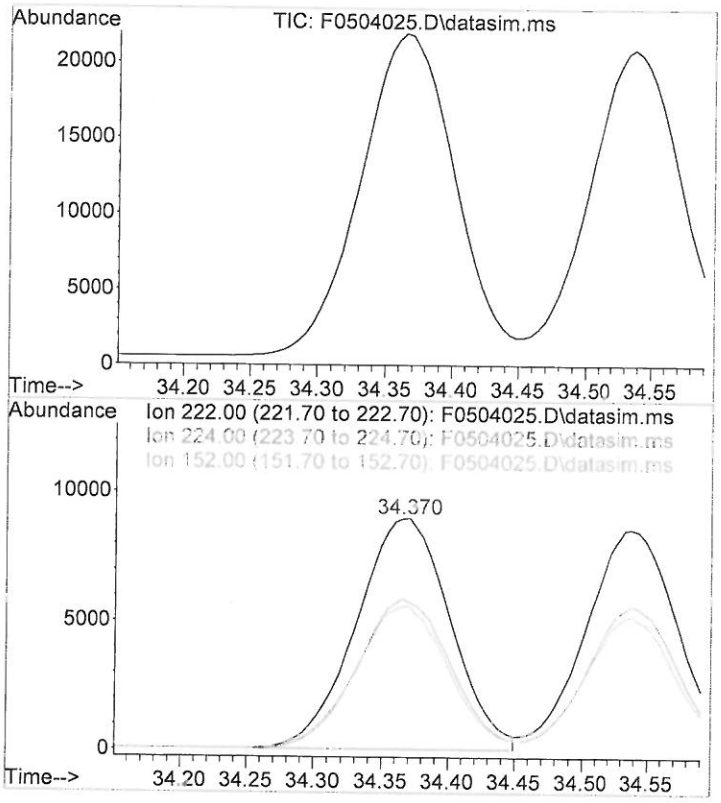
Ion	Ratio	Lower	Upper
188	100		
190	33.3	13.5	53.5
152	47.2	29.3	69.3



#5
CL2-BZ#4/#10
Concen: 130.17 ng/mL
RT: 30.997 min Scan# 3419
Delta R.T. -0.037 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 88276

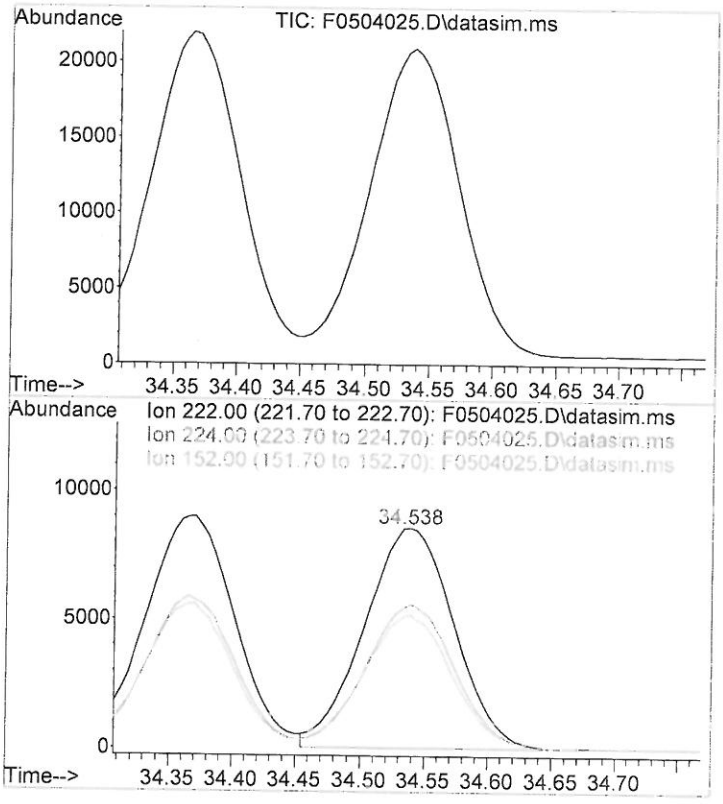
Ion	Ratio	Lower	Upper
222	100		
224	64.8	45.4	85.4
152	123.3	63.9	103.9#



#7
CL2-BZ#9
Concen: 44.92 ng/mL
RT: 34.370 min Scan# 4063
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 43629

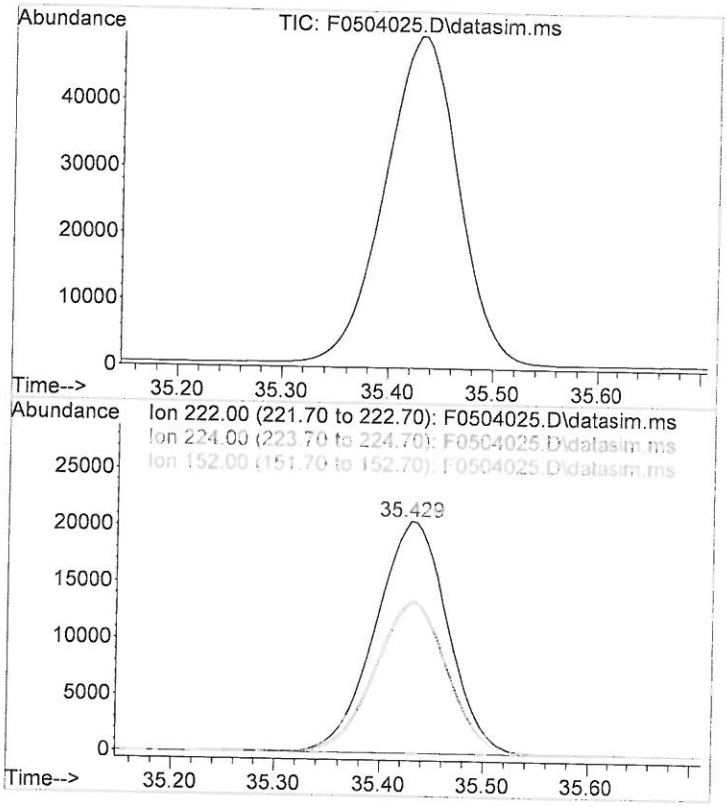
Ion	Ratio	Lower	Upper
222	100		
224	64.9	44.5	84.5
152	61.5	41.2	81.2



#8
CL2-BZ#7
Concen: 45.69 ng/mL
RT: 34.538 min Scan# 4095
Delta R.T. -0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 41445

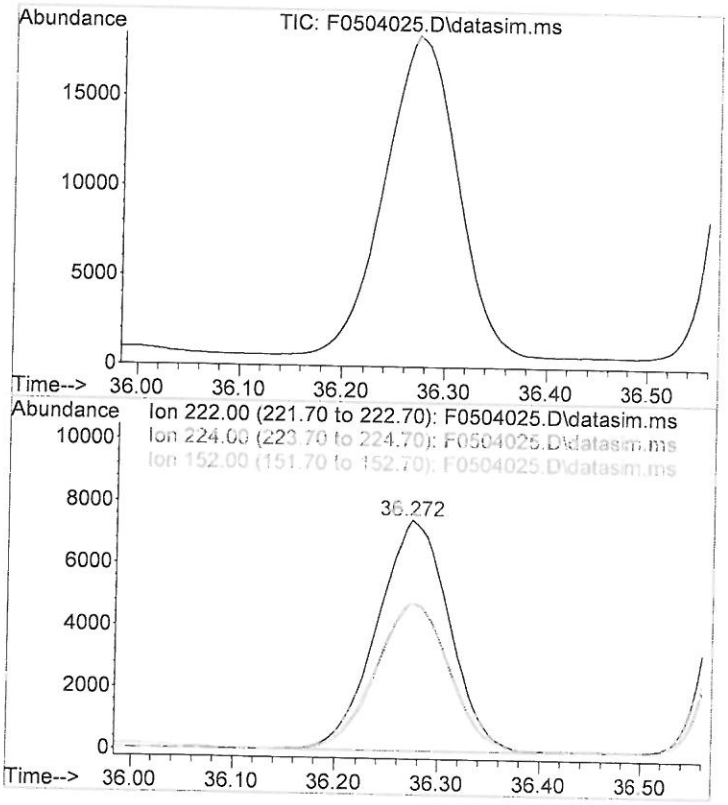
Ion	Ratio	Lower	Upper
222	100		
224	64.8	43.4	83.4
152	59.3	38.4	78.4



#9
CL2-BZ#6
Concen: 100.81 ng/mL
RT: 35.429 min Scan# 4265
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 99693

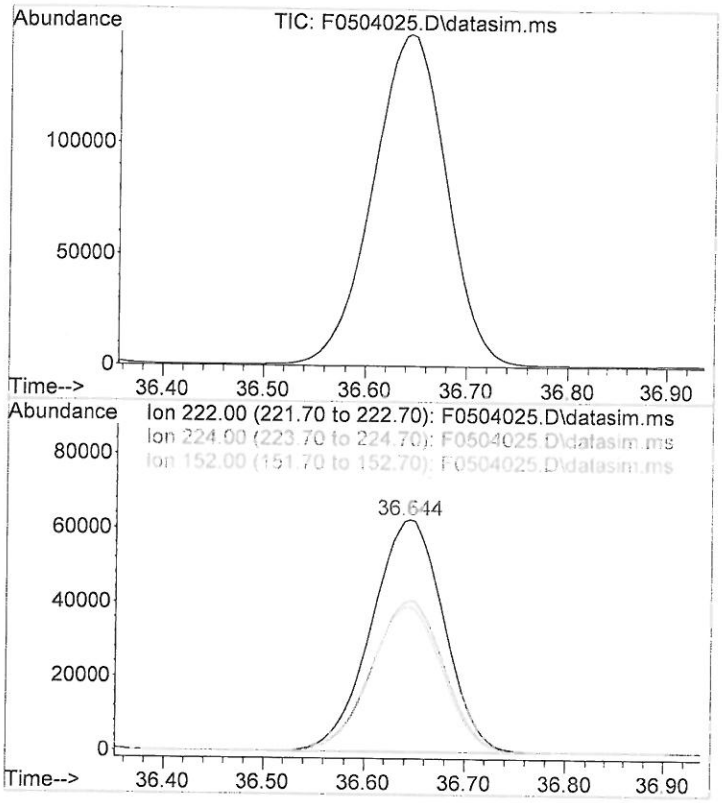
Ion	Ratio	Lower	Upper
222	100		
224	65.0	44.5	84.5
152	65.0	45.2	85.2



#10
CL2-BZ#5
Concen: 41.71 ng/mL
RT: 36.272 min Scan# 4426
Delta R.T. -0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 36544

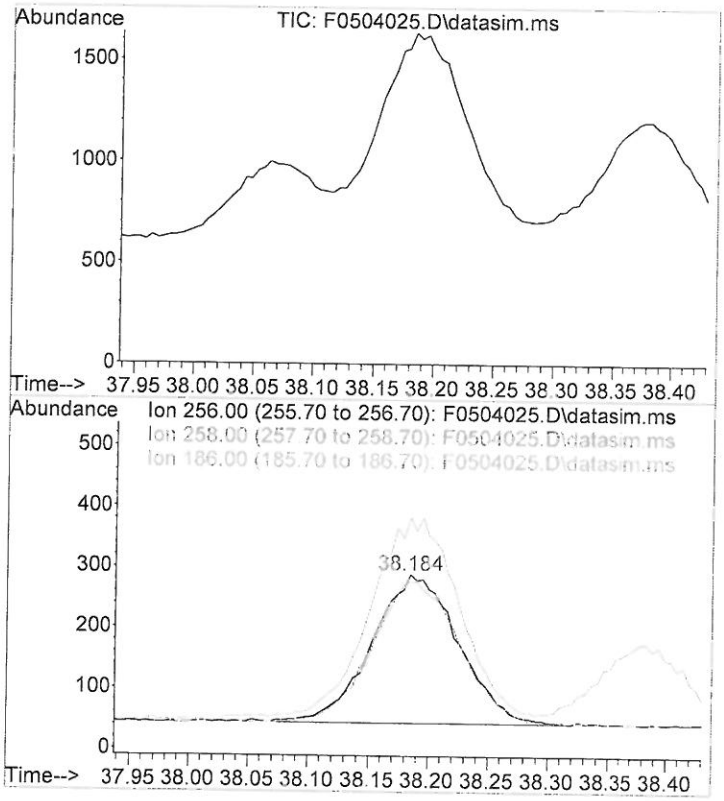
Ion	Ratio	Lower	Upper
222	100		
224	64.9	44.4	84.4
152	64.6	45.6	85.6



#11
CL2-BZ#8
Concen: 302.21 ng/mL
RT: 36.644 min Scan# 4497
Delta R.T. 0.000 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 312722

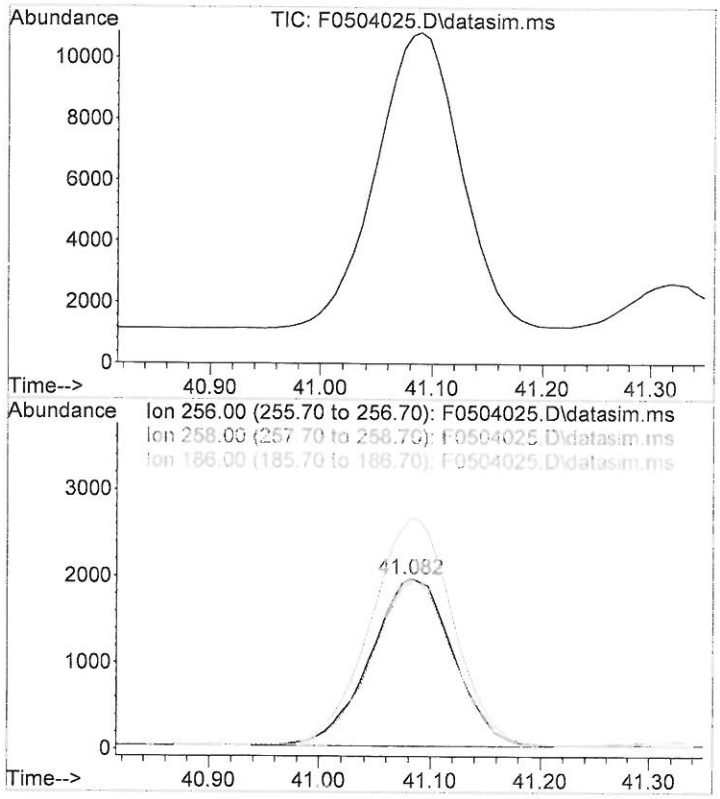
Ion	Ratio	Lower	Upper
222	100		
224	64.9	43.9	83.9
152	62.5	43.3	83.3



#12
CL3-BZ#19
Concen: 3.07 ng/mL
RT: 38.184 min Scan# 4791
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 1227

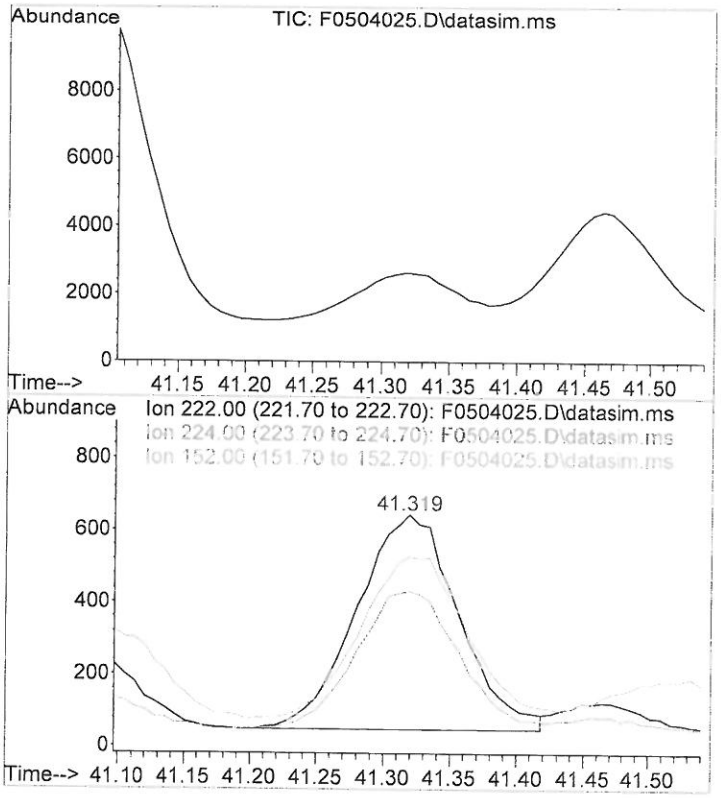
Ion	Ratio	Lower	Upper
256	100		
258	96.7	75.5	115.5
186	139.8	116.7	156.7



#15
CL3-BZ#18
Concen: 22.61 ng/mL
RT: 41.082 min Scan# 5292
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 10054

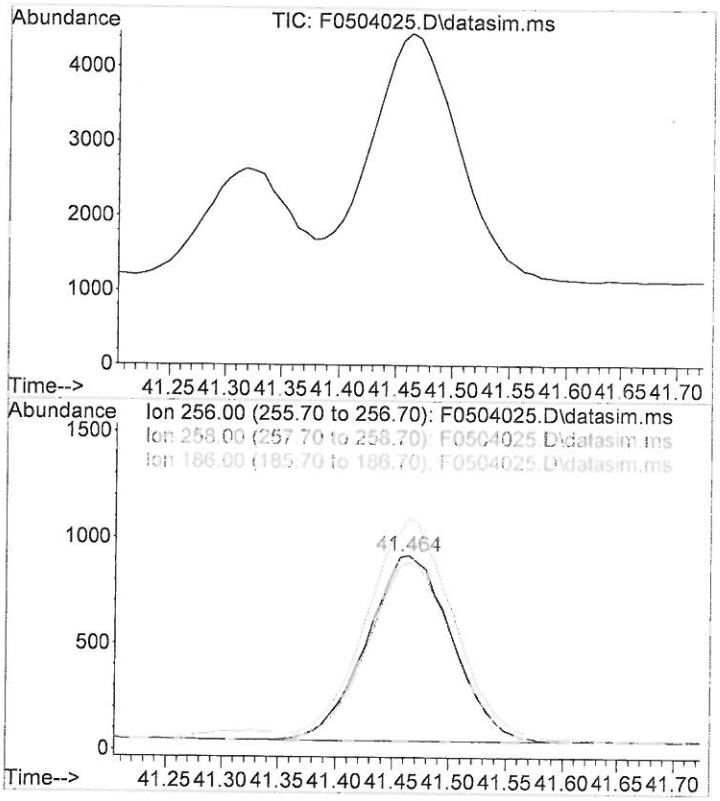
Ion	Ratio	Lower	Upper
256	100		
258	96.6	74.7	114.7
186	135.8	106.5	146.5



#16
CL2-BZ#11
Concen: 3.08 ng/mL
RT: 41.319 min Scan# 5323
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 3148

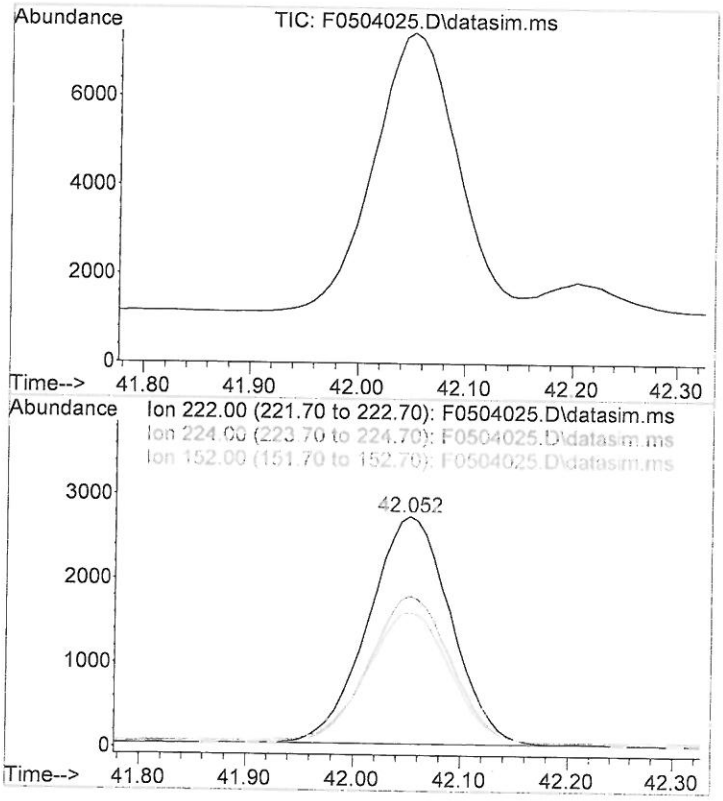
Ion	Ratio	Lower	Upper
222	100		
224	64.6	44.2	84.2
152	79.1	40.5	80.5



#17
CL3-BZ#17
Concen: 9.18 ng/mL
RT: 41.464 min Scan# 5342
Delta R.T. -0.013 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 4594

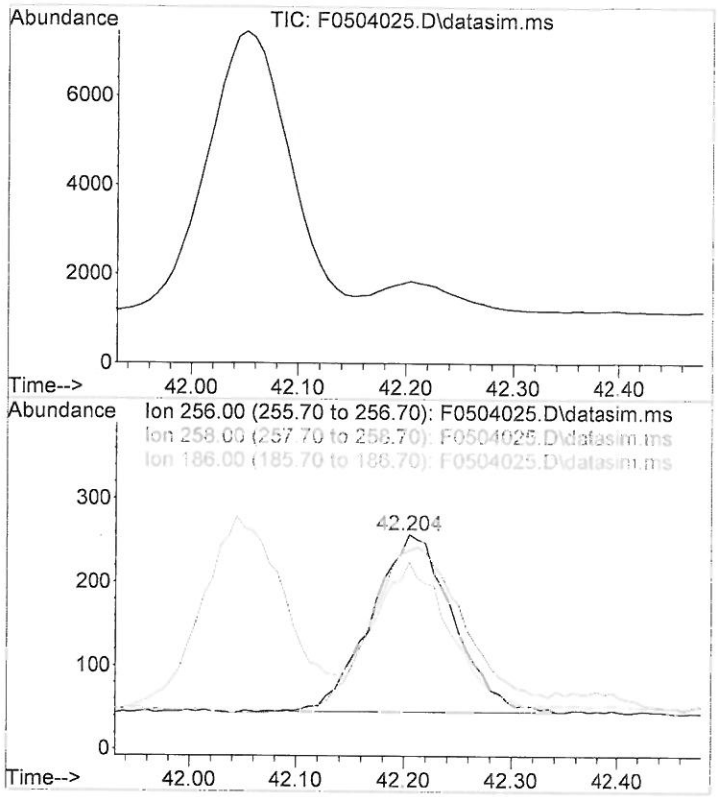
Ion	Ratio	Lower	Upper
256	100		
258	96.0	74.0	114.0
186	120.0	94.6	134.6



#18
CL2-BZ#12
Concen: 15.35 ng/mL
RT: 42.052 min Scan# 5419
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 14362

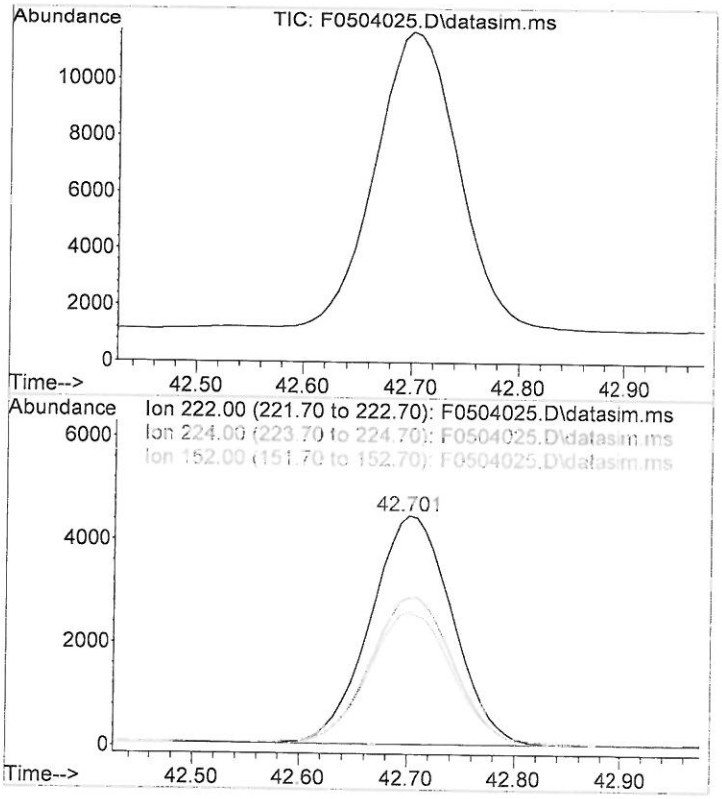
Ion	Ratio	Lower	Upper
222	100		
224	65.7	45.1	85.1
152	57.9	37.2	77.2



#19
CL3-BZ#27
Concen: 1.54 ng/mL
RT: 42.204 min Scan# 5439
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 1118

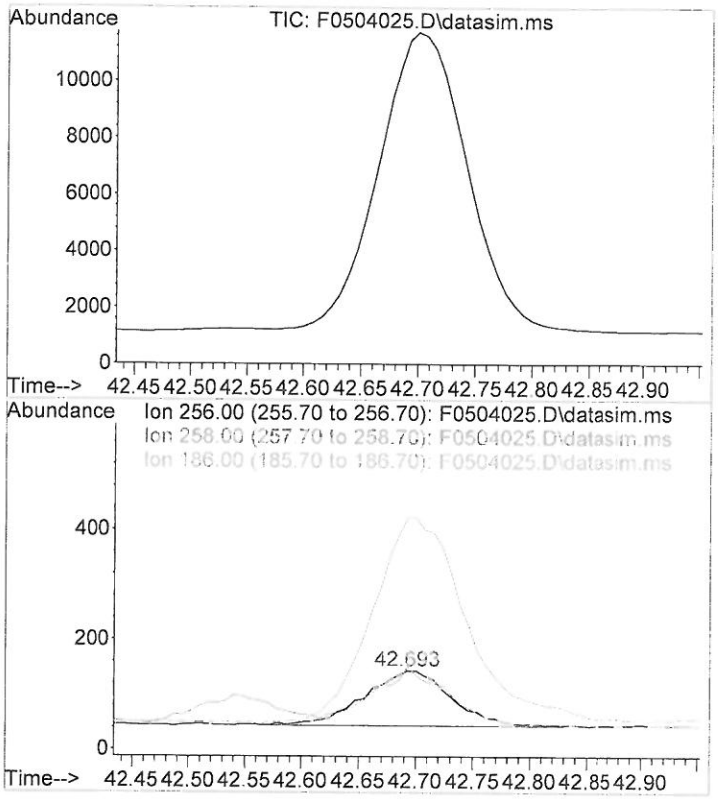
Ion	Ratio	Lower	Upper
256	100		
258	109.7	75.9	115.9
186	76.7	58.7	98.7



#20
CL2-BZ#13
Concen: 22.35 ng/mL
RT: 42.700 min Scan# 5504
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 23430

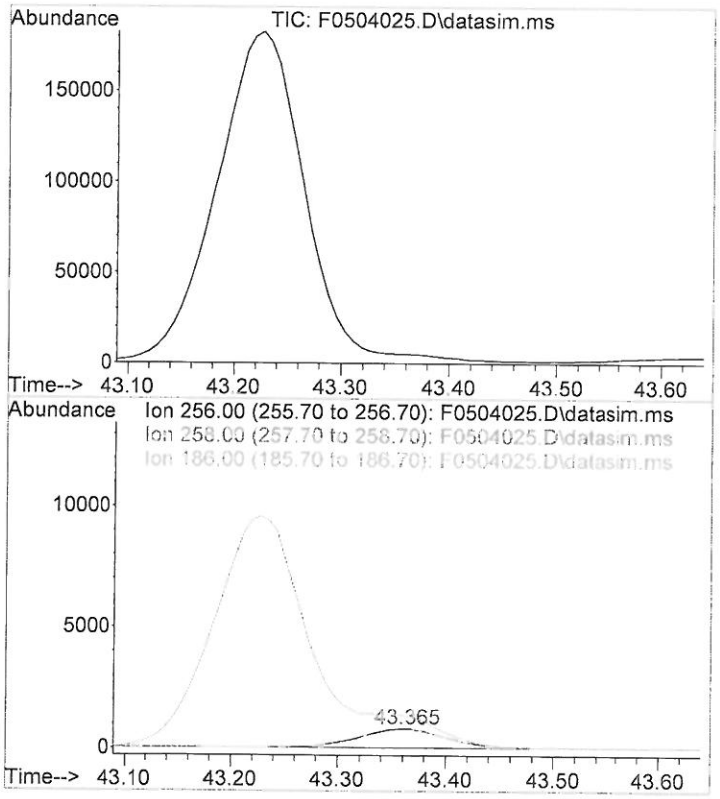
Ion	Ratio	Lower	Upper
222	100		
224	65.5	43.4	83.4
152	58.2	37.7	77.7



#21
CL3-BZ#24
Concen: 0.82 ng/mL
RT: 42.693 min Scan# 5503
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 526

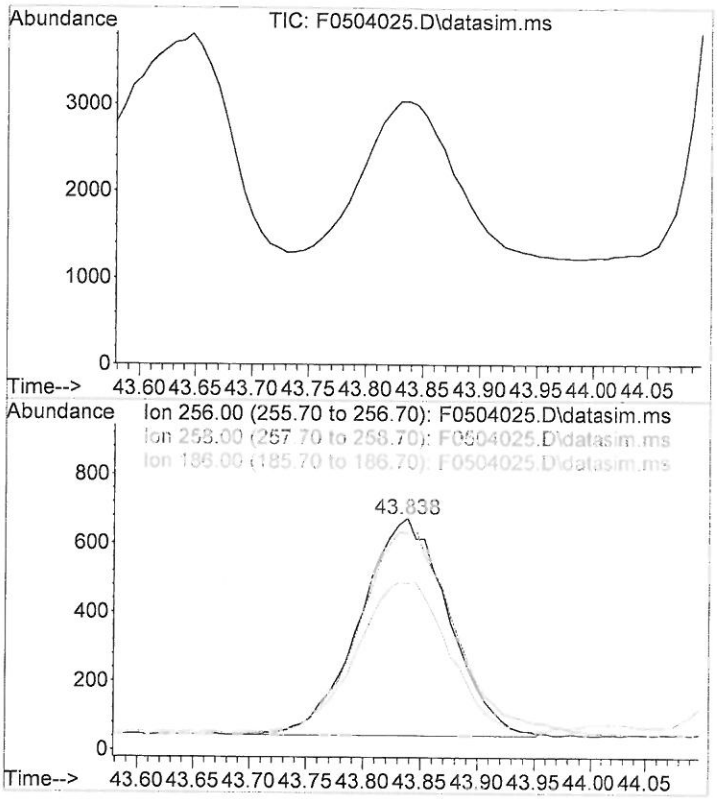
Ion	Ratio	Lower	Upper
256	100		
258	91.8	78.1	118.1
186	416.3	66.5	106.5#



#22
CL3-BZ#16
Concen: 10.90 ng/mL
RT: 43.365 min Scan# 5591
Delta R.T. 0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 4199

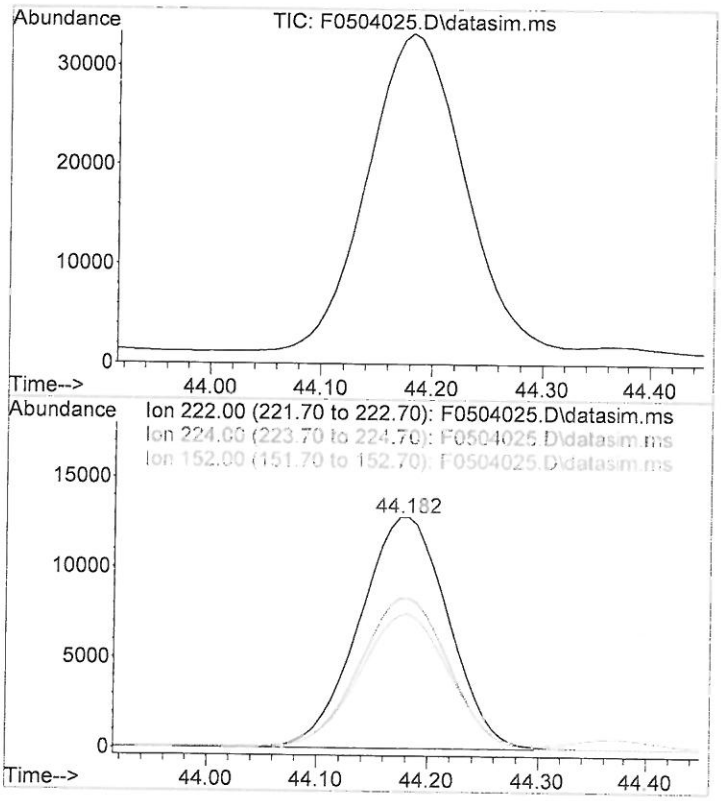
Ion	Ratio	Lower	Upper
256	100		
258	96.5	71.7	111.7
186	0.0	155.4	195.4#



#23
CL3-BZ#32
Concen: 4.33 ng/mL
RT: 43.838 min Scan# 5653
Delta R.T. 0.018 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 3386

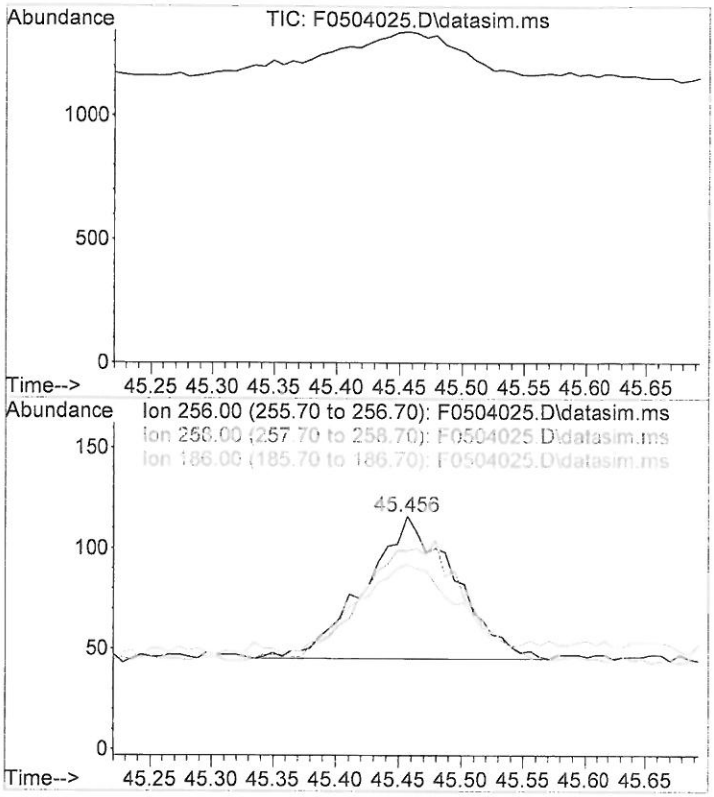
Ion	Ratio	Lower	Upper
256	100		
258	100.5	74.8	114.8
186	72.6	52.6	92.6



#24
CL2-BZ#15
Concen: 73.65 ng/mL
RT: 44.182 min Scan# 5698
Delta R.T. 0.018 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:222 Resp: 71068

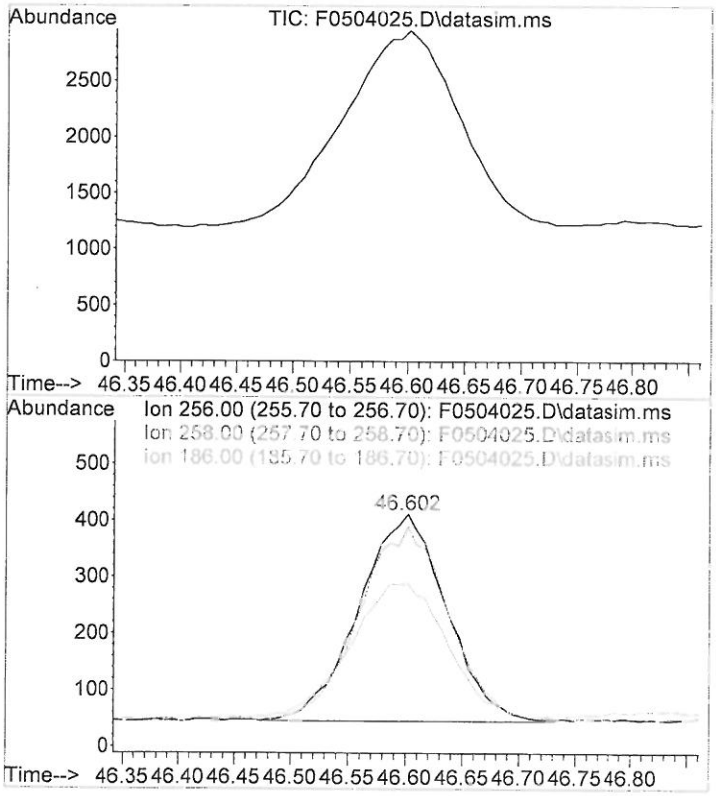
Ion	Ratio	Lower	Upper
222	100		
224	65.0	44.3	84.3
152	58.3	37.4	77.4



#28
CL3-BZ#29
Concen: 0.46 ng/mL
RT: 45.456 min Scan# 5865
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 354

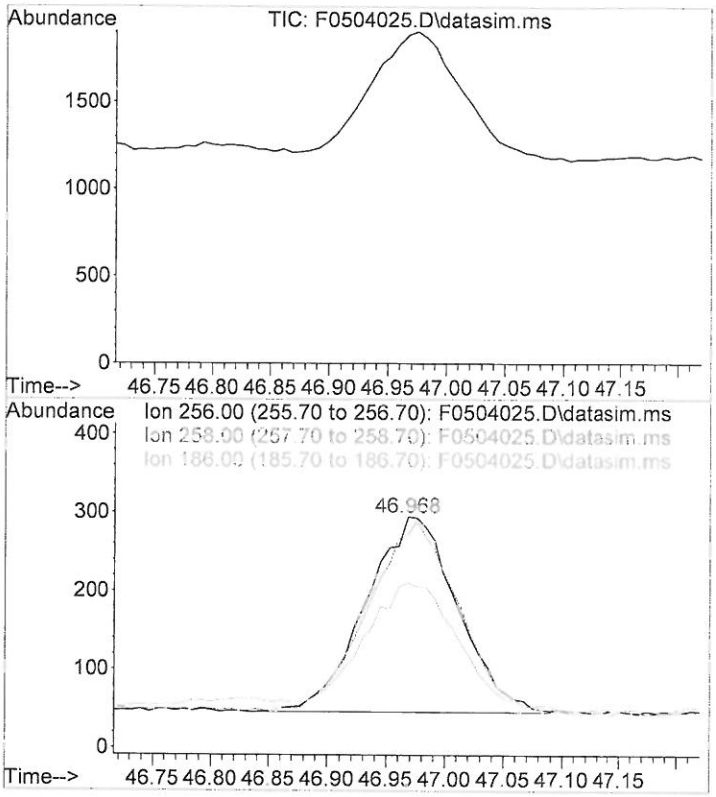
Ion	Ratio	Lower	Upper
256	100		
258	91.8	79.5	119.5
186	66.4	46.4	86.4



#30
CL3-BZ#26
Concen: 2.52 ng/mL
RT: 46.602 min Scan# 6015
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 1942

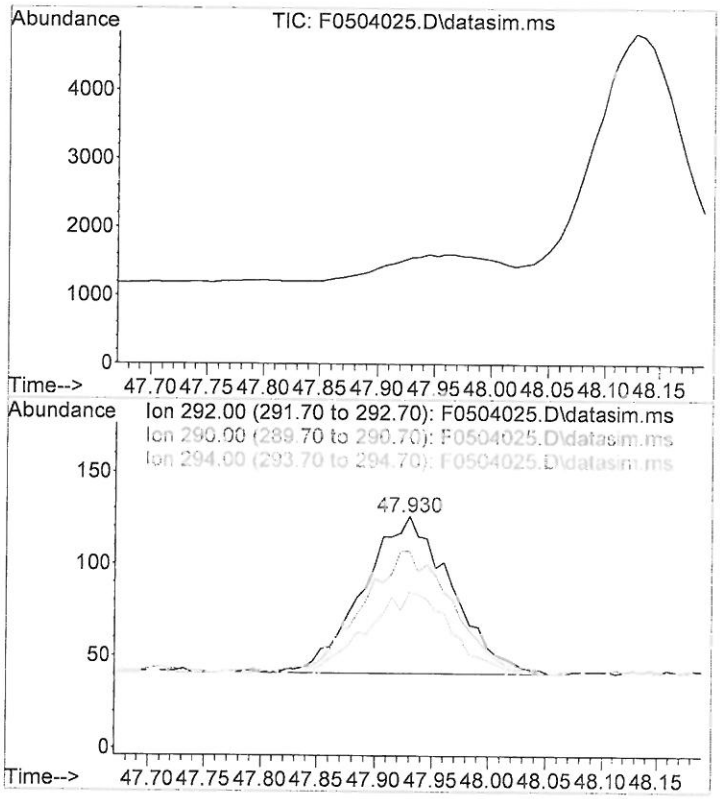
Ion	Ratio	Lower	Upper
256	100		
258	96.6	76.3	116.3
186	72.0	47.2	87.2



#31
CL3-BZ#25
Concen: 1.95 ng/mL
RT: 46.968 min Scan# 6063
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 1347

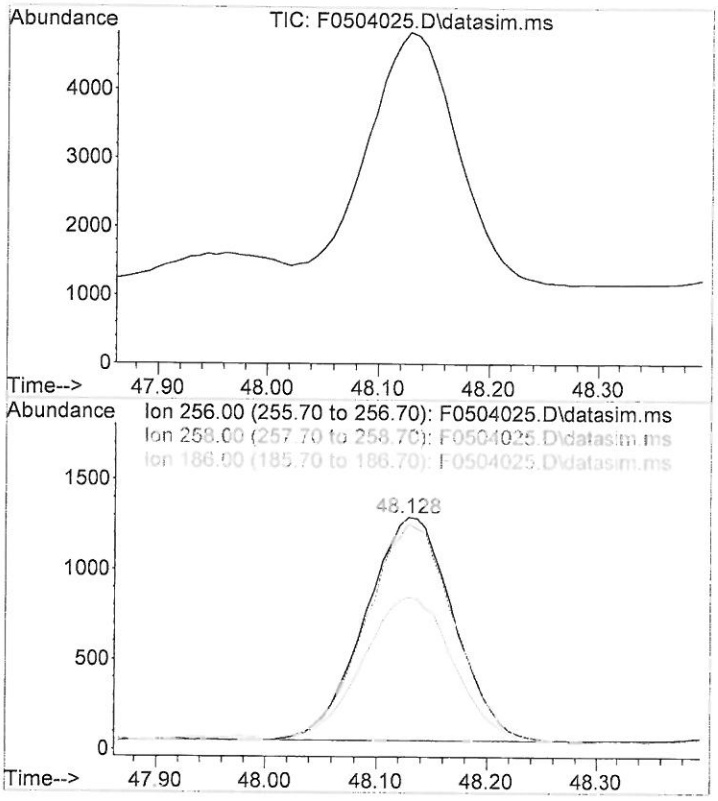
Ion	Ratio	Lower	Upper
256	100		
258	95.2	76.0	116.0
186	66.4	49.6	89.6



#32
CL4-BZ#53
Concen: 1.06 ng/mL
RT: 47.930 min Scan# 6189
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 455

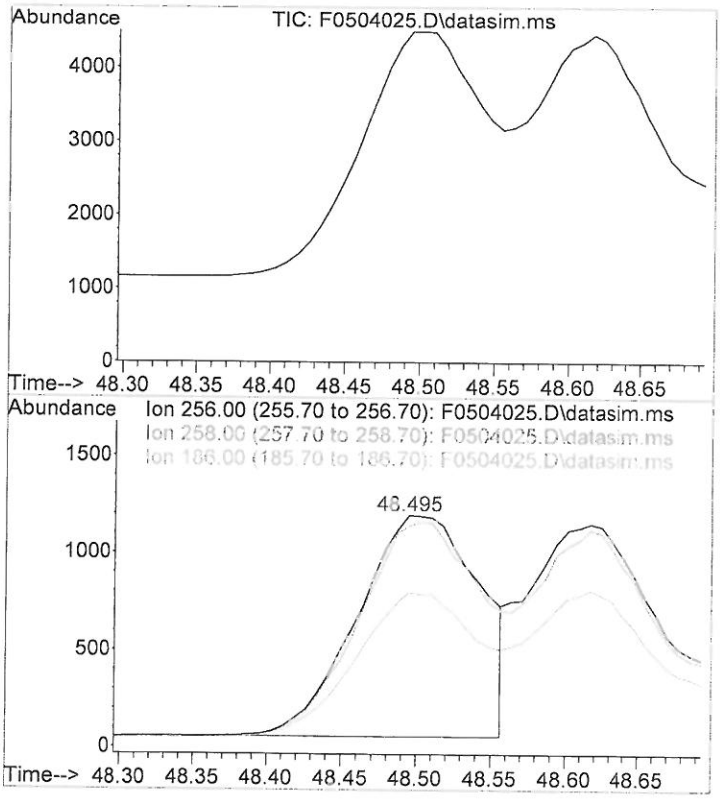
Ion	Ratio	Lower	Upper
292	100		
290	79.8	57.6	97.6
294	31.0	29.4	69.4



#33
CL3-BZ#31
Concen: 8.60 ng/mL
RT: 48.128 min Scan# 6215
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 6896

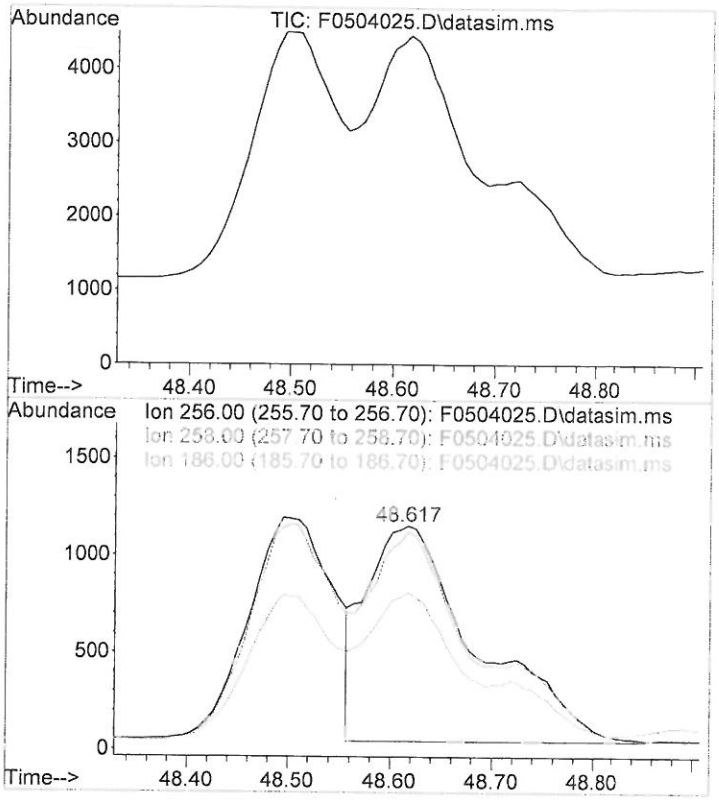
Ion	Ratio	Lower	Upper
256	100		
258	97.4	76.4	116.4
186	66.1	46.5	86.5



#34
CL3-BZ#28
Concen: 8.35 ng/mL
RT: 48.495 min Scan# 6263
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 6401

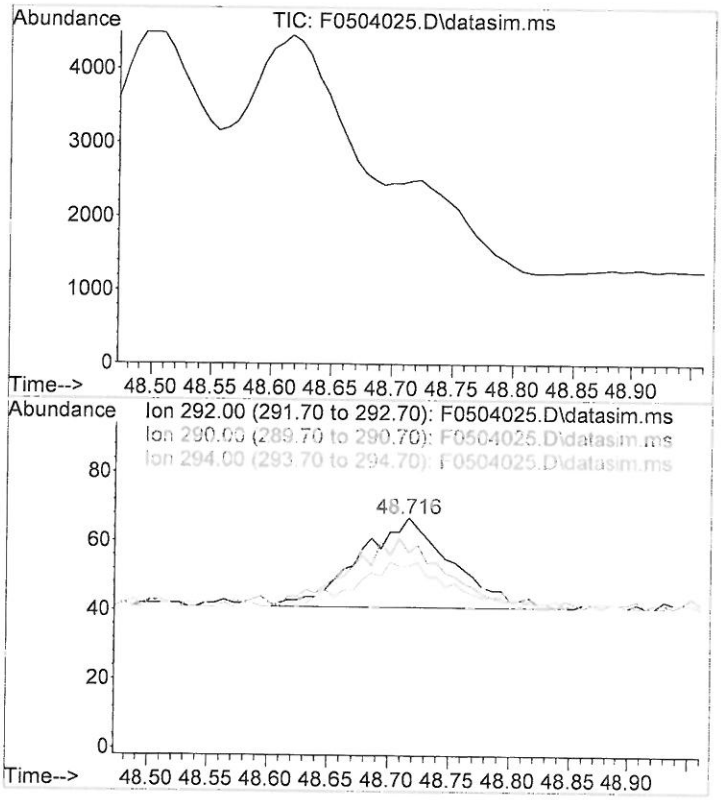
Ion	Ratio	Lower	Upper
256	100		
258	101.4	76.6	116.6
186	65.7	45.9	85.9



#35
CL3-BZ#33/#21/#20
Concen: 11.47 ng/mL m
RT: 48.617 min Scan# 6279
Delta R.T. -0.020 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 8464

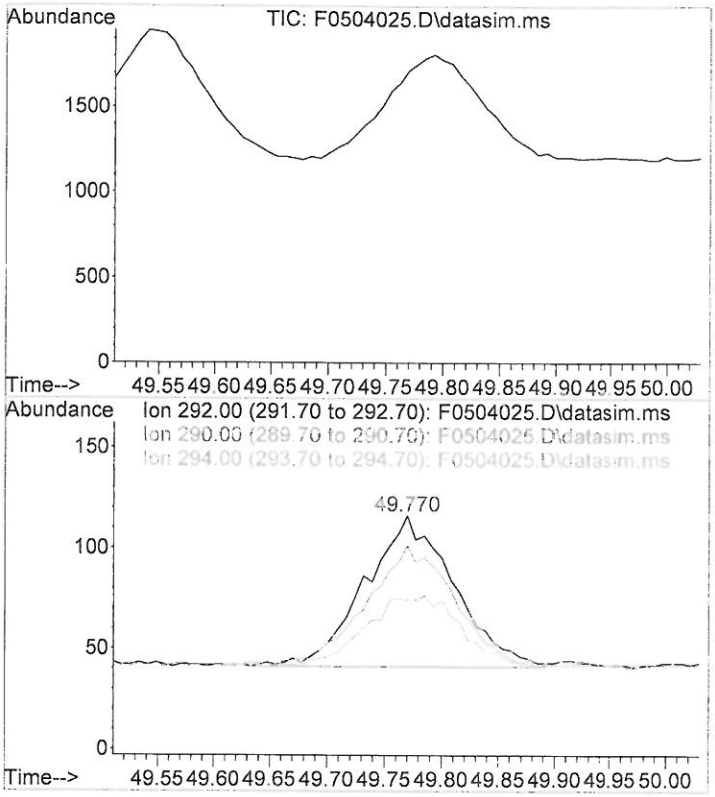
Ion	Ratio	Lower	Upper
256	100		
258	33.7	77.9	117.9#
186	23.2	48.4	88.4#



#36
CL4-BZ#51
Concen: 0.31 ng/mL
RT: 48.716 min Scan# 6292
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 140

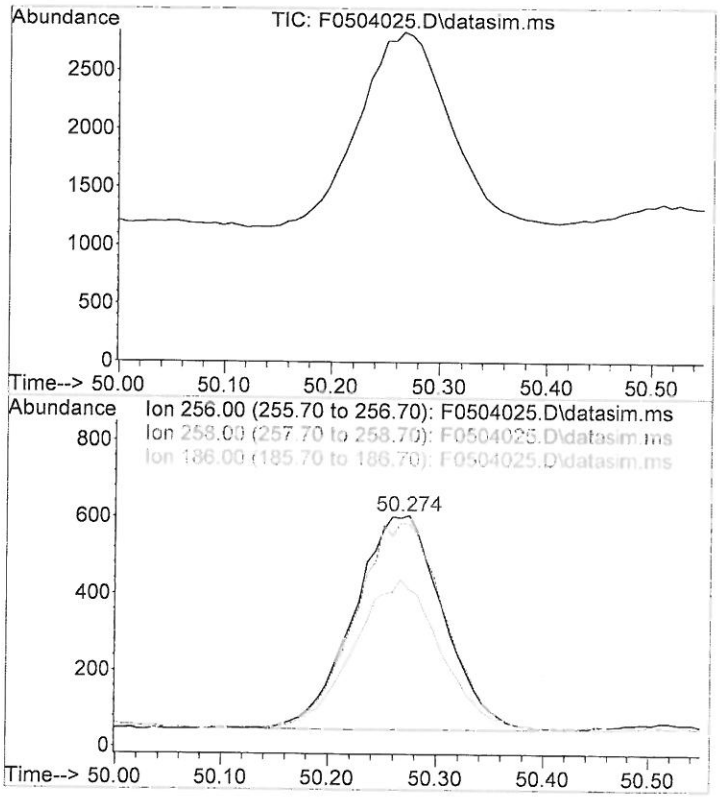
Ion	Ratio	Lower	Upper
292	100		
290	78.6	60.8	100.8
294	0.0	28.8	68.8#



#37
CL4-BZ#45
Concen: 0.99 ng/mL
RT: 49.770 min Scan# 6430
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 404

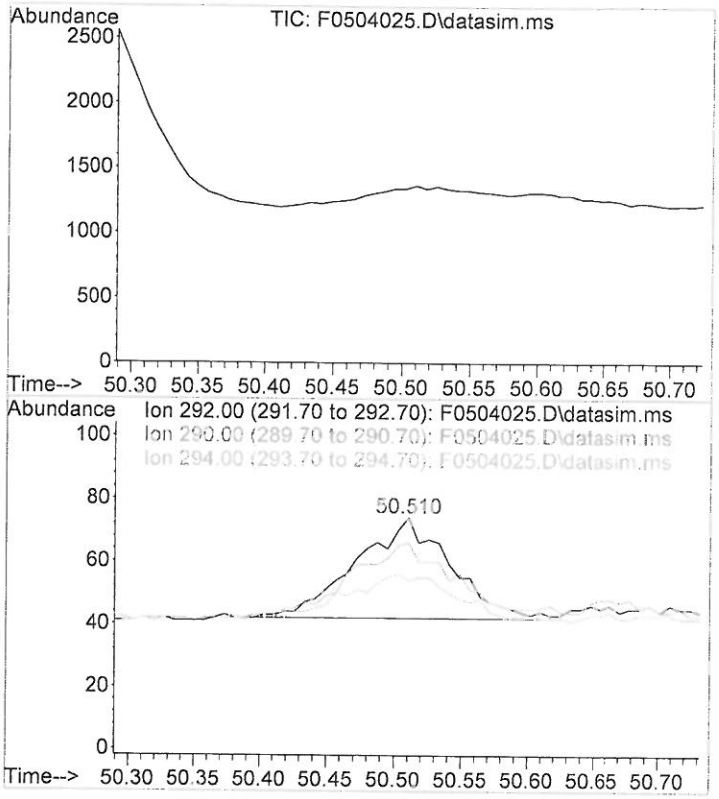
Ion	Ratio	Lower	Upper
292	100		
290	79.7	58.6	98.6
294	49.8	29.4	69.4



#38
CL3-BZ#22
Concen: 4.63 ng/mL
RT: 50.274 min Scan# 6496
Delta R.T. 0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 3204

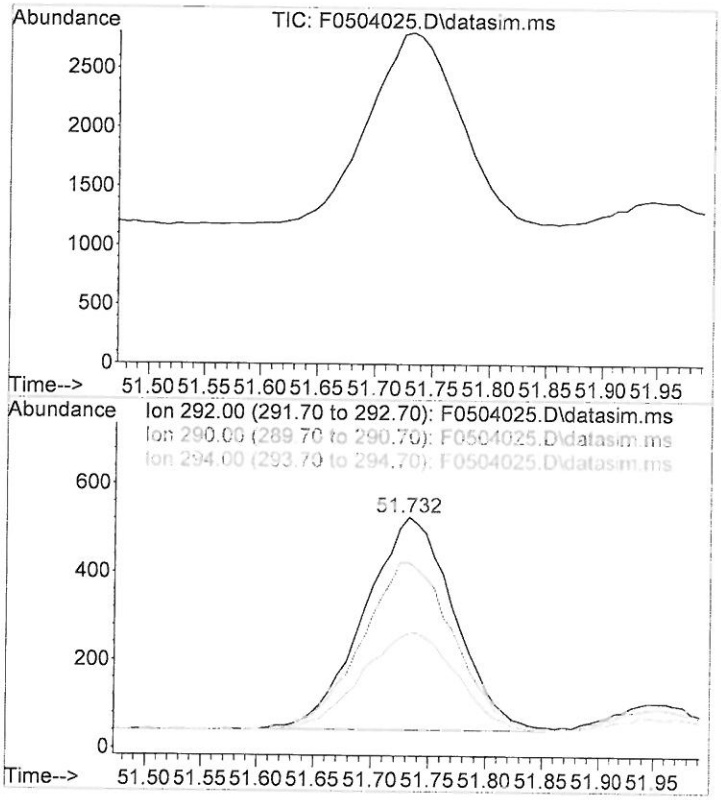
Ion	Ratio	Lower	Upper
256	100		
258	97.8	77.3	117.3
186	66.8	49.8	89.8



#39
CL4-BZ#46
Concen: 0.42 ng/mL
RT: 50.510 min Scan# 6527
Delta R.T. 0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 156

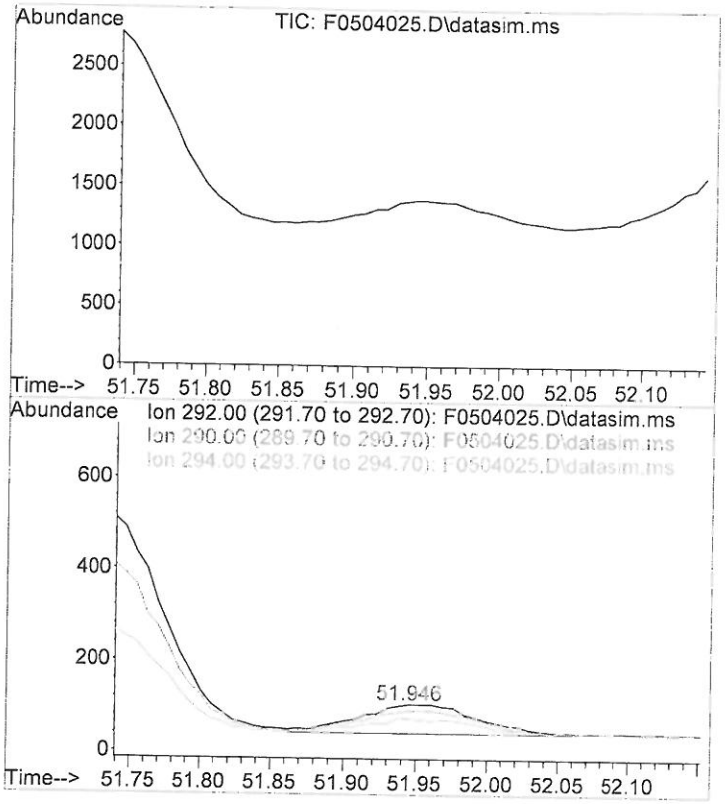
Ion	Ratio	Lower	Upper
292	100		
290	80.8	59.4	99.4
294	0.0	28.6	68.6#



#44
CL4-BZ#52
Concen: 5.48 ng/mL
RT: 51.732 min Scan# 6687
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 2641

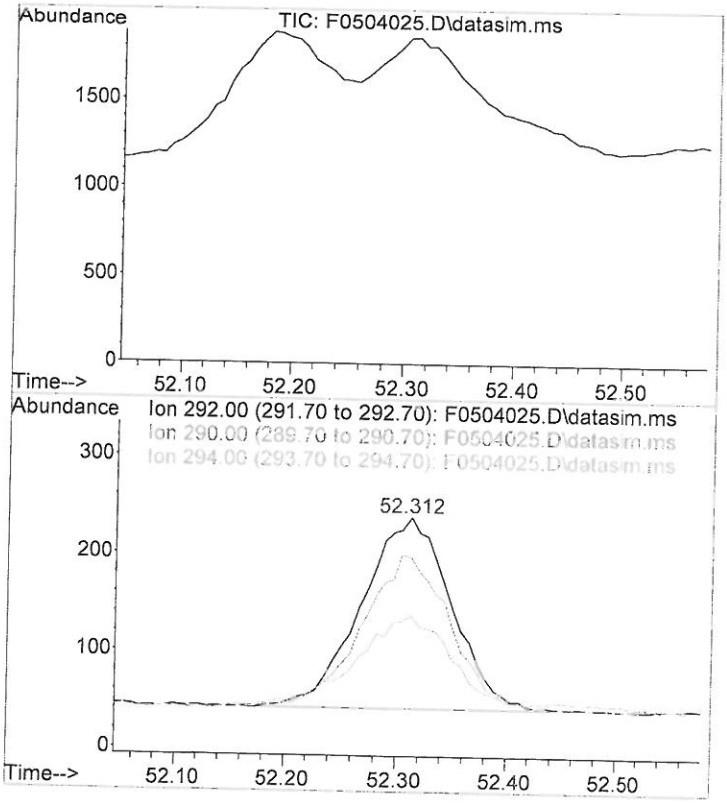
Ion	Ratio	Lower	Upper
292	100		
290	80.1	58.5	98.5
294	48.2	30.1	70.1



#45
CL4-BZ#48
Concen: 0.83 ng/mL
RT: 51.946 min Scan# 6715
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 357

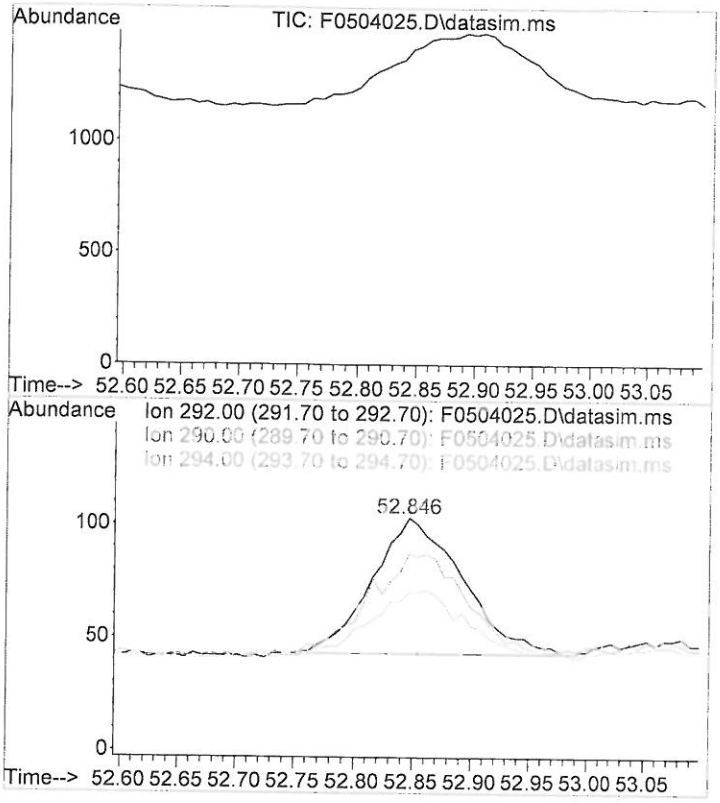
Ion	Ratio	Lower	Upper
292	100		
290	76.5	58.9	98.9
294	0.0	30.2	70.2#



#46
CL4-BZ#49
Concen: 2.18 ng/mL
RT: 52.312 min Scan# 6763
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 1098

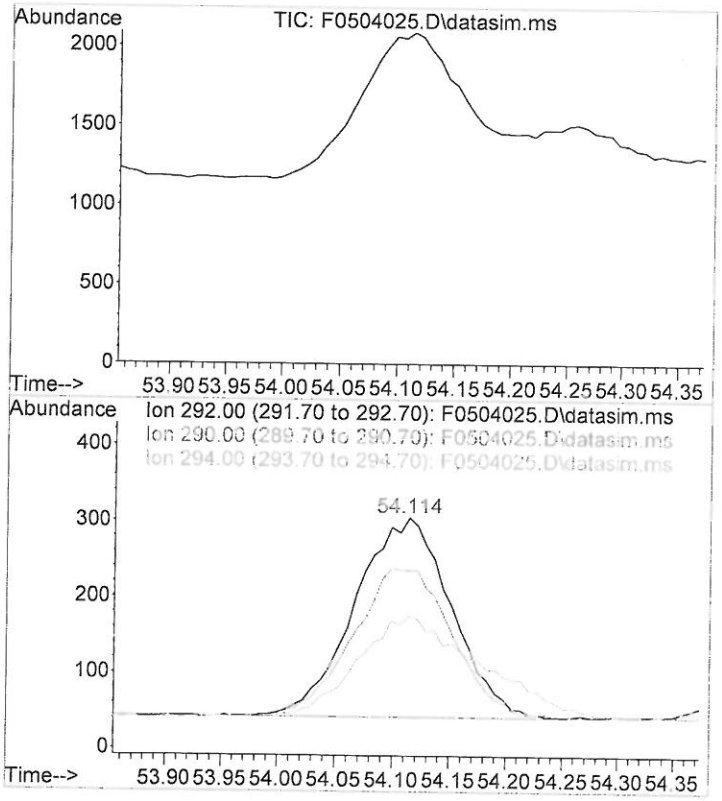
Ion	Ratio	Lower	Upper
292	100		
290	78.1	59.6	99.6
294	46.0	27.9	67.9



#48
CL4-BZ#47/#65/#62
Concen: 0.59 ng/mL
RT: 52.846 min Scan# 6833
Delta R.T. -0.028 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 323

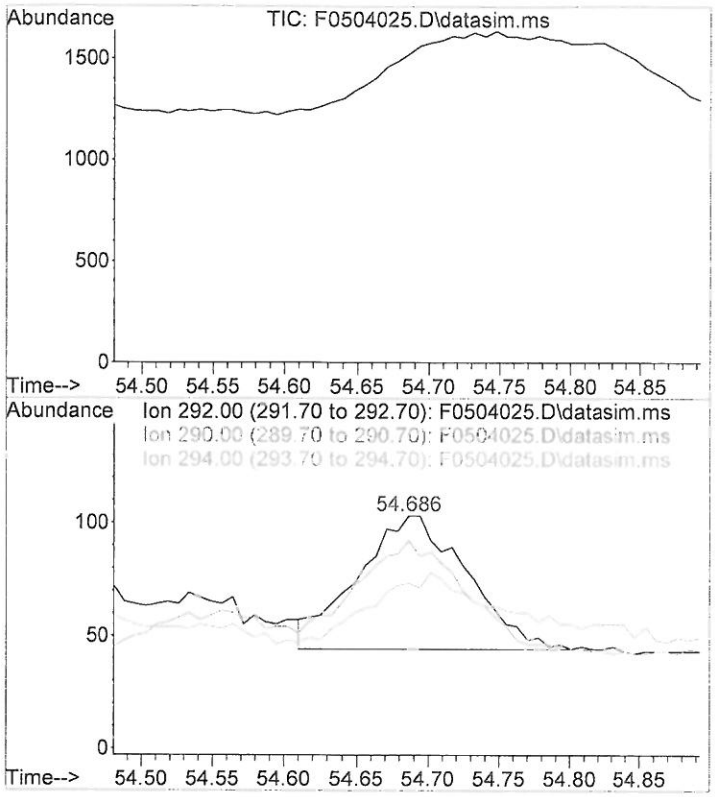
Ion	Ratio	Lower	Upper
292	100		
290	77.7	59.0	99.0
294	54.8	29.1	69.1



#52
CL4-BZ#44
Concen: 4.24 ng/mL
RT: 54.114 min Scan# 6999
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 1539

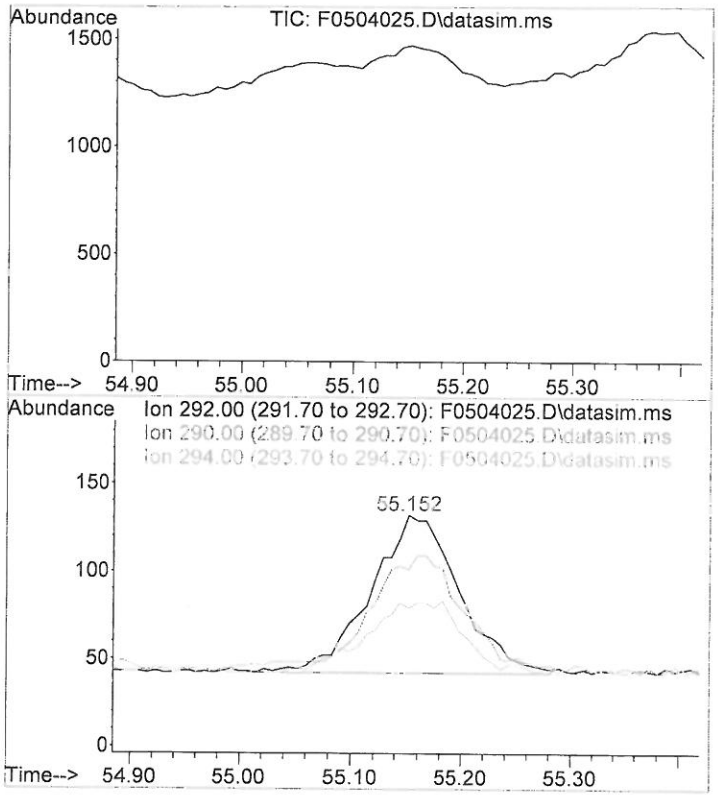
Ion	Ratio	Lower	Upper
292	100		
290	76.6	59.0	99.0
294	62.7	30.6	70.6



#54
CL4-BZ#42
Concen: 0.87 ng/mL
RT: 54.686 min Scan# 7074
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 312

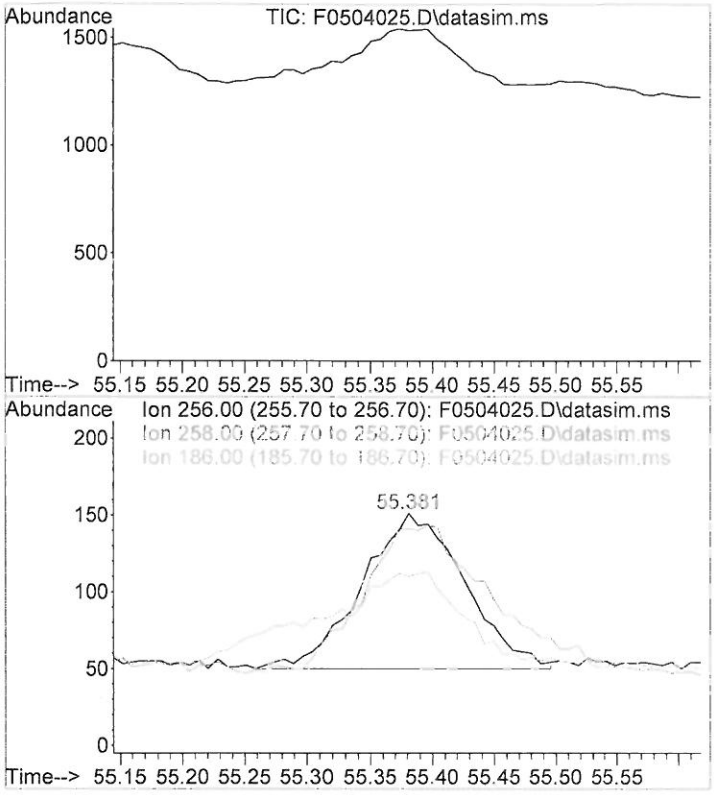
Ion	Ratio	Lower	Upper
292	100		
290	84.3	58.8	98.8
294	58.0	29.4	69.4



#55
CL4-BZ#71
Concen: 0.83 ng/mL
RT: 55.152 min Scan# 7135
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 499

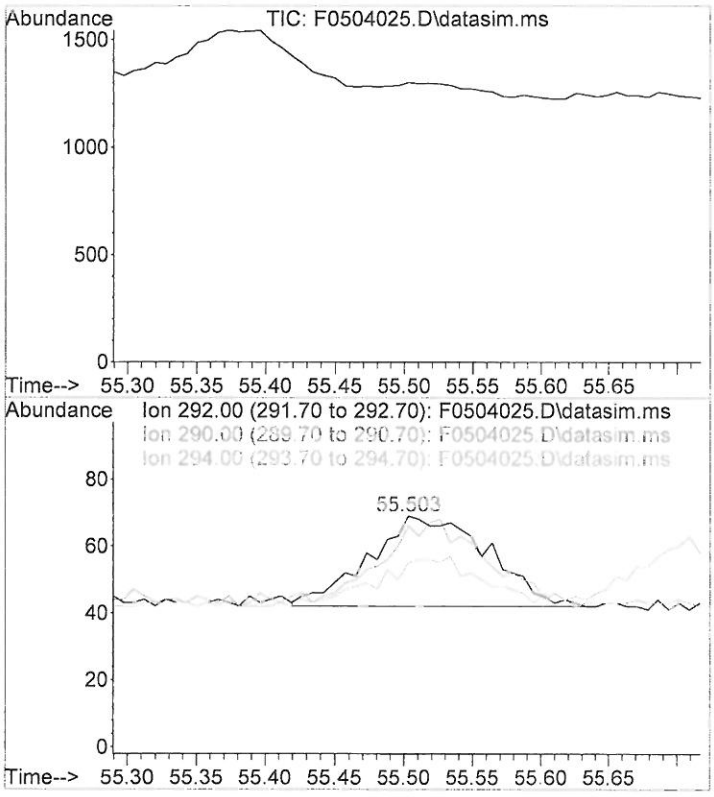
Ion	Ratio	Lower	Upper
292	100		
290	79.8	58.4	98.4
294	42.5	28.3	68.3



#56
CL3-BZ#35
Concen: 0.77 ng/mL
RT: 55.381 min Scan# 7165
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 578

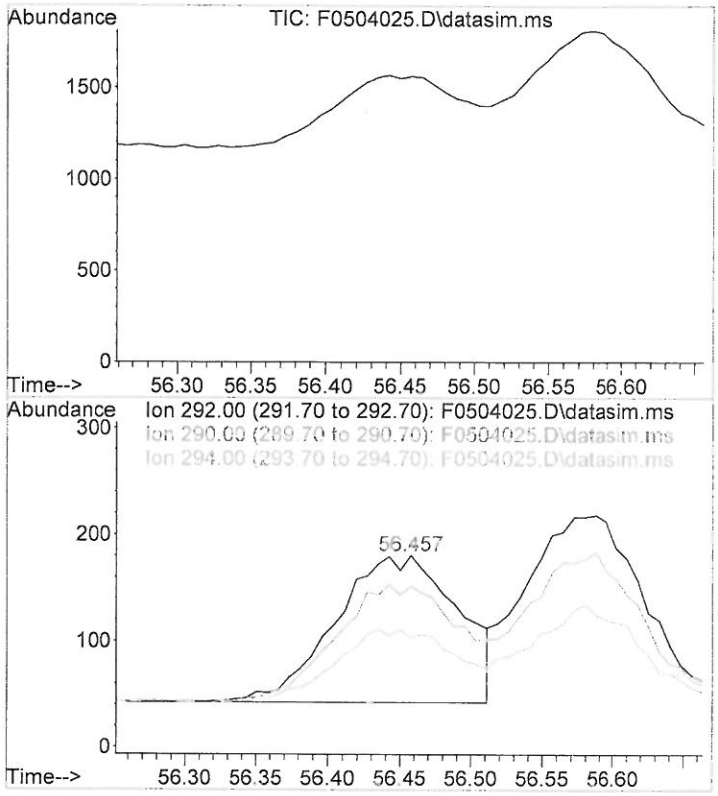
Ion	Ratio	Lower	Upper
256	100		
258	117.3	77.3	117.3#
186	75.3	42.7	82.7



#57
CL4-BZ#41
Concen: 0.41 ng/mL
RT: 55.503 min Scan# 7181
Delta R.T. -0.020 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 162

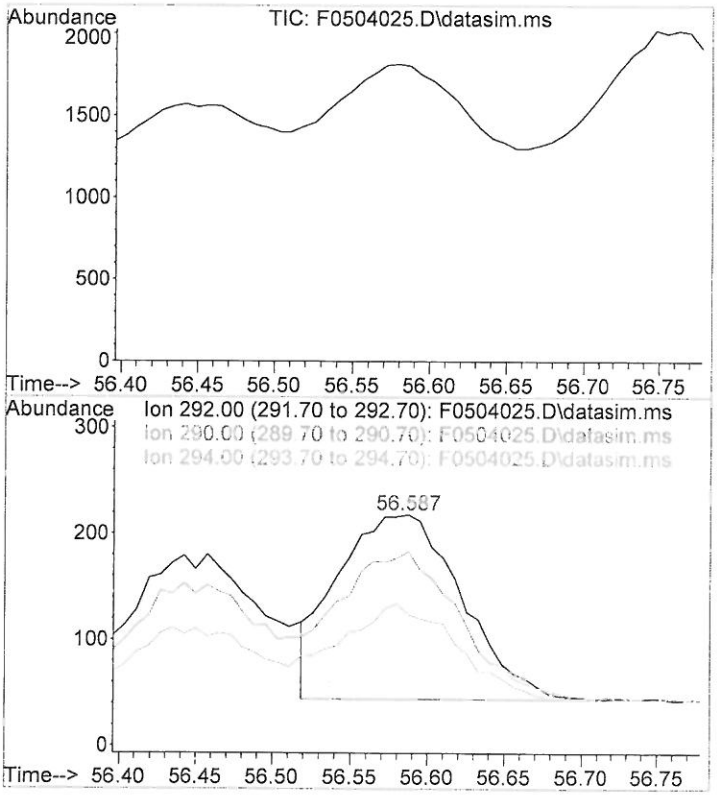
Ion	Ratio	Lower	Upper
292	100		
290	85.2	59.4	99.4
294	0.0	30.0	70.0#



#61
CL4-BZ#64
Concen: 1.42 ng/mL
RT: 56.457 min Scan# 7306
Delta R.T. 0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 819

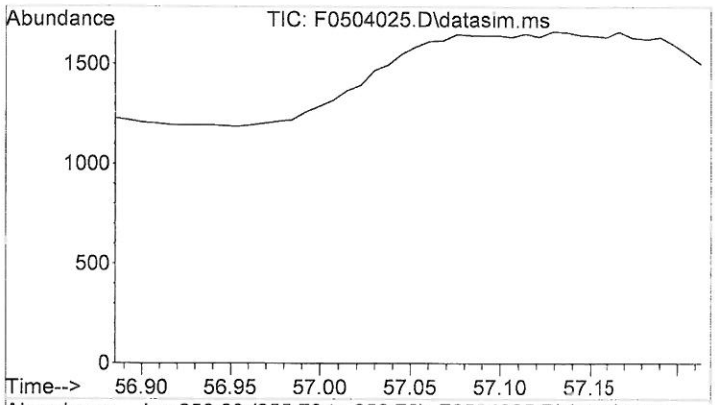
Ion	Ratio	Lower	Upper
292	100		
290	79.5	58.3	98.3
294	49.3	27.8	67.8

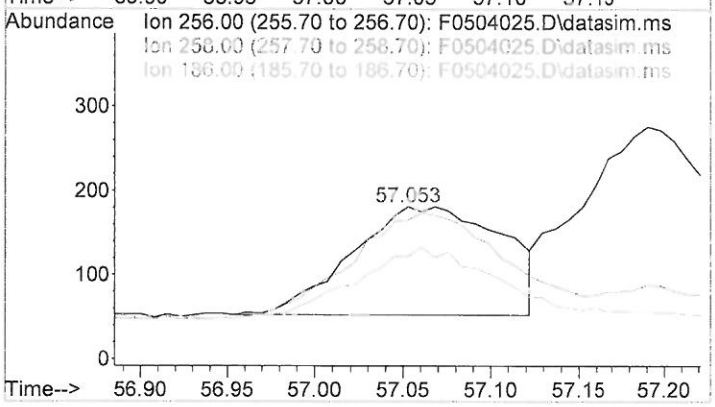


#62
CL4-BZ#40/#68
Concen: 2.08 ng/mL
RT: 56.587 min Scan# 7323
Delta R.T. 0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 972

Ion	Ratio	Lower	Upper
292	100		
290	77.7	59.0	99.0
294	50.6	29.4	69.4

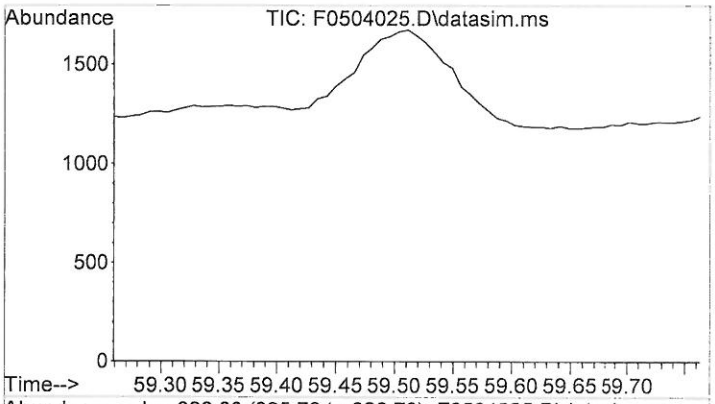


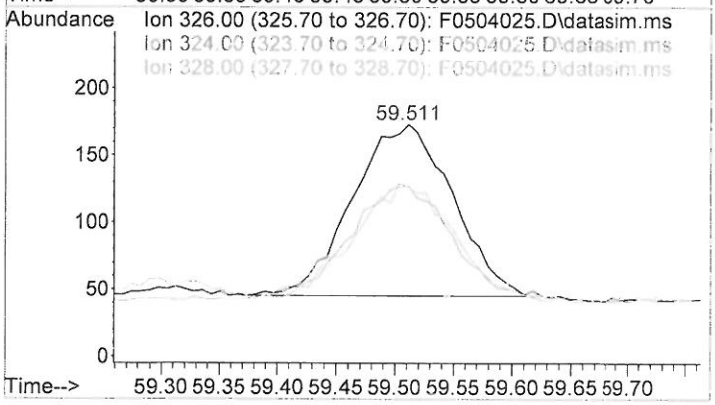


#63
CL3-BZ#37
Concen: 1.12 ng/mL
RT: 57.053 min Scan# 7384
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:256 Resp: 765

Ion	Ratio	Lower	Upper
256	100		
258	100.8	74.7	114.7
186	65.1	40.6	80.6

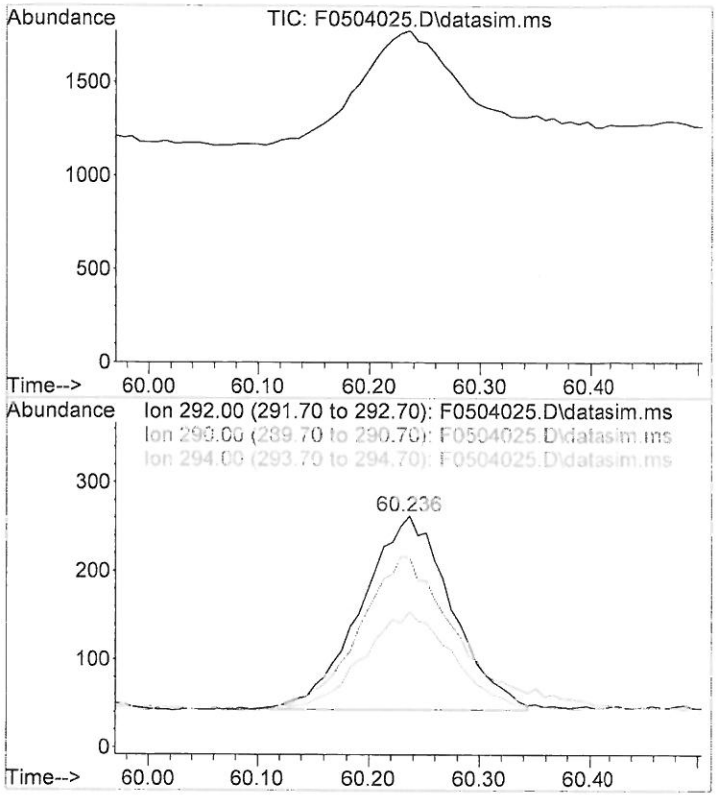




#74
CL5-BZ#88/#95
Concen: 1.93 ng/mL
RT: 59.511 min Scan# 7706
Delta R.T. 0.018 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:326 Resp: 758

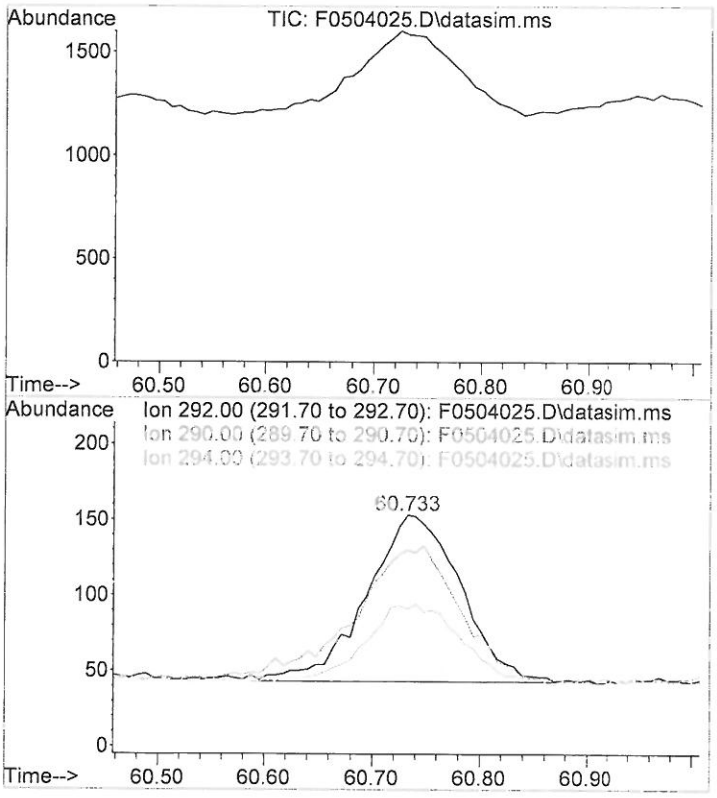
Ion	Ratio	Lower	Upper
326	100		
324	69.1	44.0	84.0
328	66.1	43.4	83.4



#78
CL4-BZ#70
Concen: 1.74 ng/mL
RT: 60.236 min Scan# 7801
Delta R.T. 0.018 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 1240

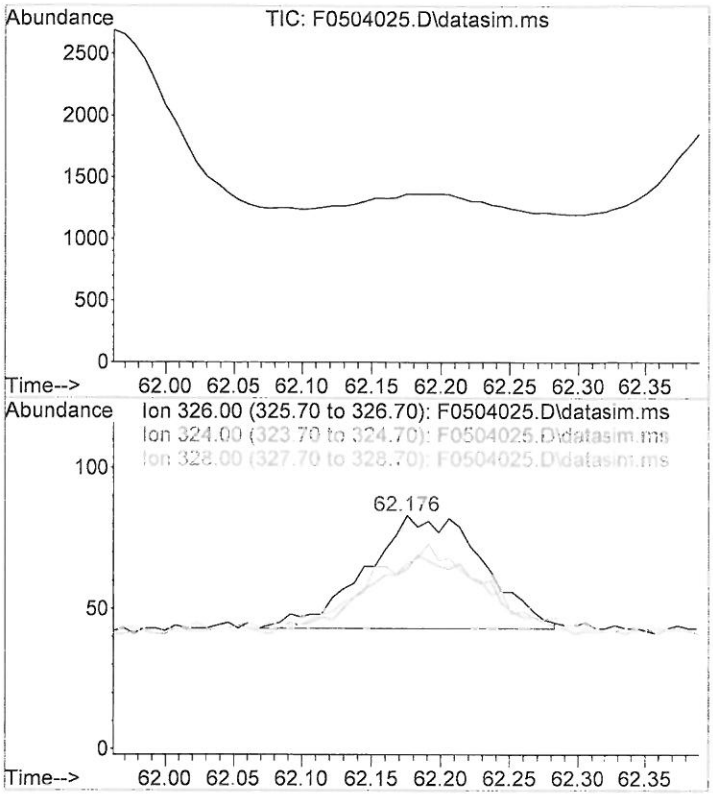
Ion	Ratio	Lower	Upper
292	100		
290	82.2	70.2	110.2
294	52.2	27.2	67.2



#80
CL4-BZ#66
Concen: 1.02 ng/mL
RT: 60.733 min Scan# 7866
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 666

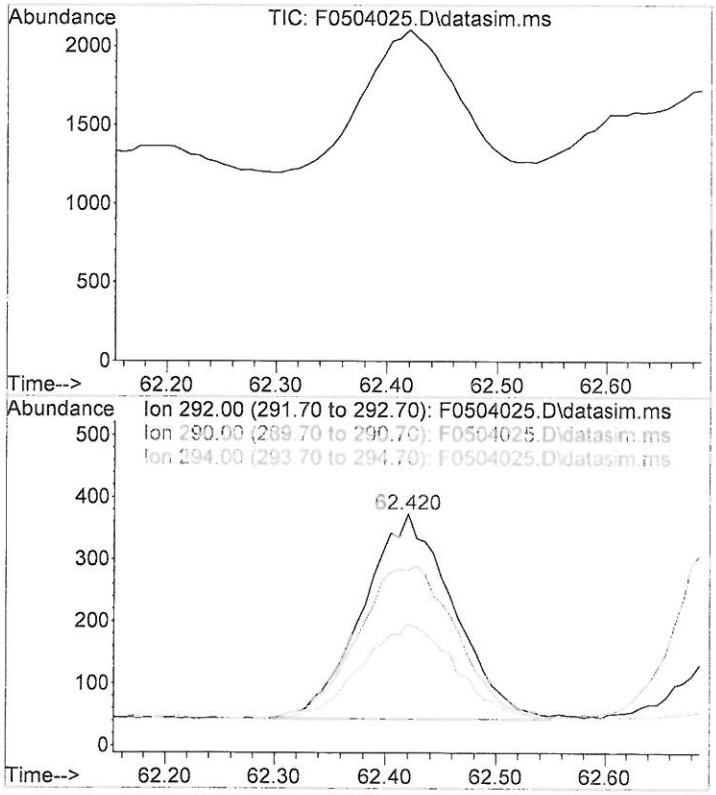
Ion	Ratio	Lower	Upper
292	100		
290	41.0	58.4	98.4#
294	50.9	29.1	69.1



#84
CL5-BZ#89/#84
Concen: 0.72 ng/mL
RT: 62.176 min Scan# 8055
Delta R.T. 0.025 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:326 Resp: 235

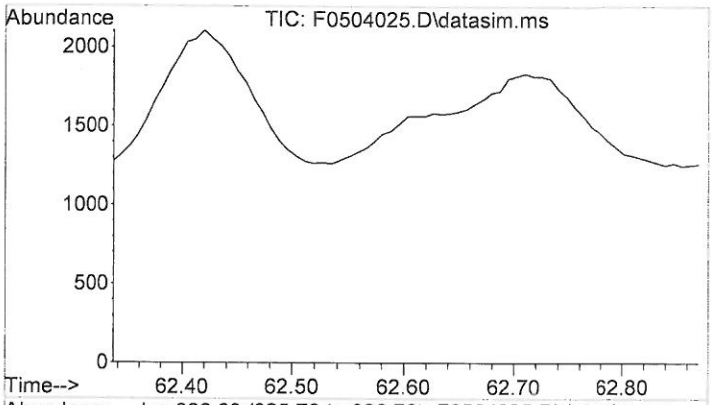
Ion	Ratio	Lower	Upper
326	100		
324	71.5	45.2	85.2
328	0.0	45.1	85.1#

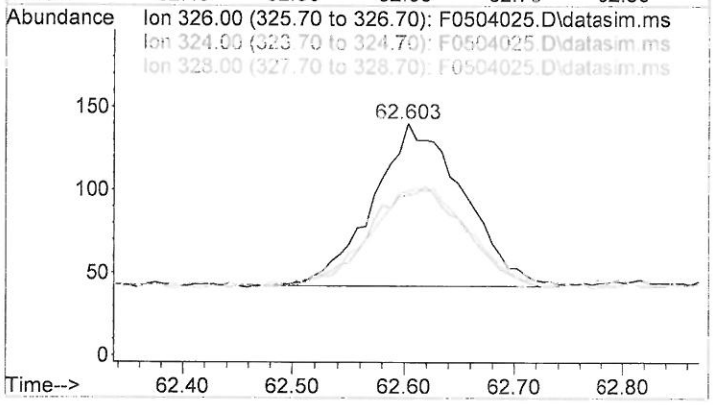


#85
CL4-BZ#56
Concen: 3.17 ng/mL
RT: 62.420 min Scan# 8087
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 1873

Ion	Ratio	Lower	Upper
292	100		
290	80.9	60.7	100.7
294	47.8	30.4	70.4

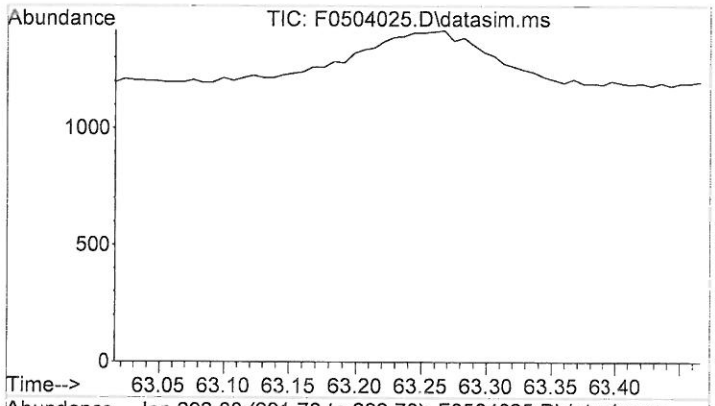


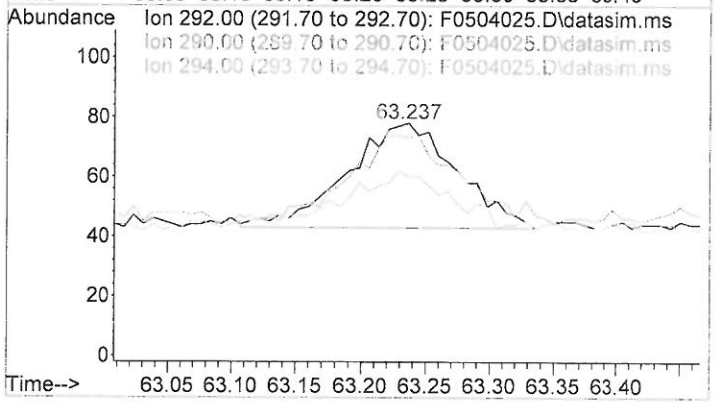


#86
CL5-BZ#90/#101
Concen: 1.43 ng/mL
RT: 62.603 min Scan# 8111
Delta R.T. -0.005 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:326 Resp: 558

Ion	Ratio	Lower	Upper
326	100		
324	63.8	44.7	84.7
328	65.4	45.9	85.9

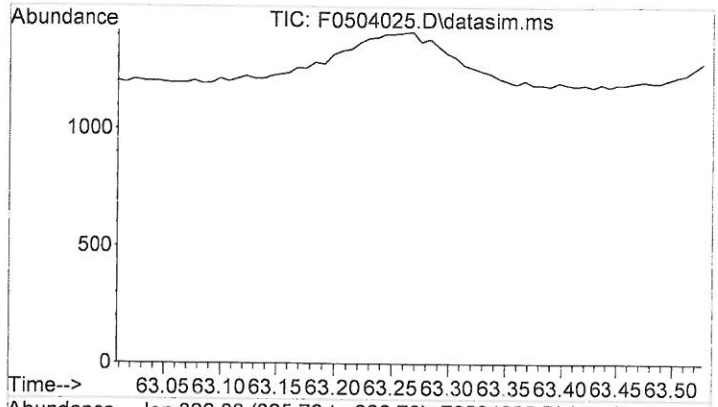


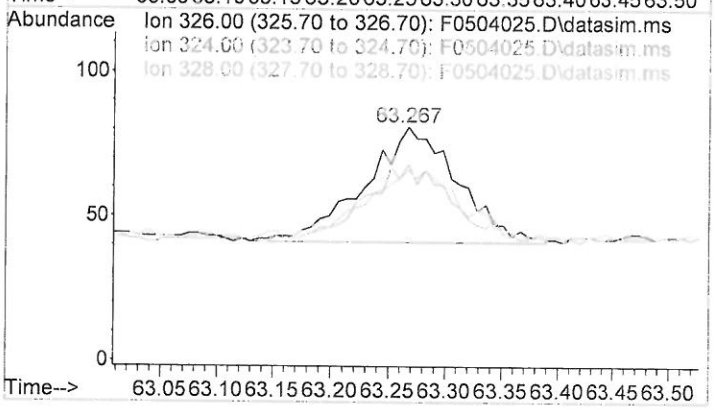


#88
CL4-BZ#60
Concen: 0.28 ng/mL
RT: 63.237 min Scan# 8194
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 206

Ion	Ratio	Lower	Upper
292	100		
290	74.3	66.1	106.1
294	0.0	26.1	66.1#

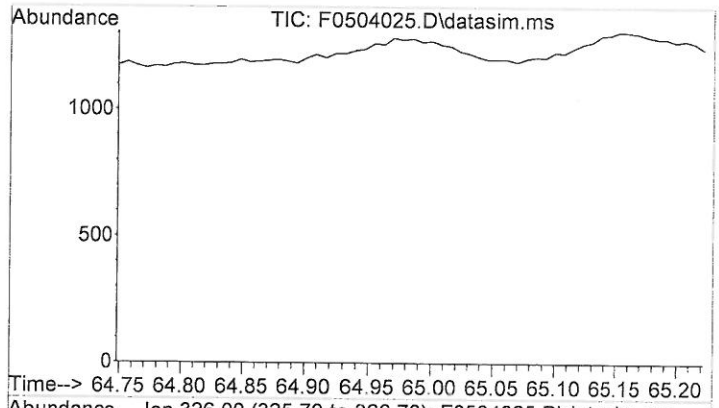


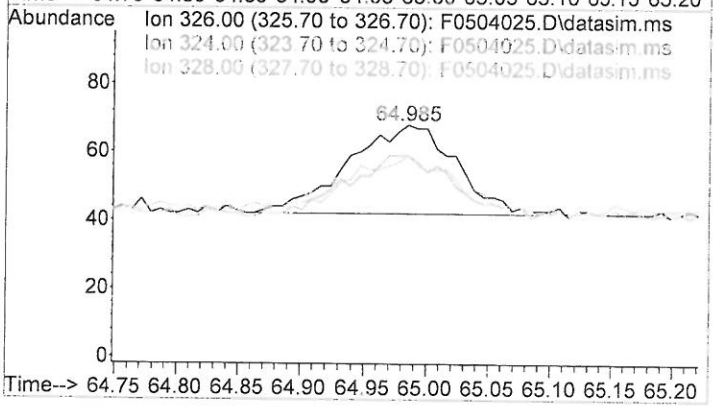


#89
CL5-BZ#99
Concen: 0.53 ng/mL
RT: 63.267 min Scan# 8198
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:326 Resp: 227

Ion	Ratio	Lower	Upper
326	100		
324	64.8	48.7	88.7
328	60.4	45.6	85.6

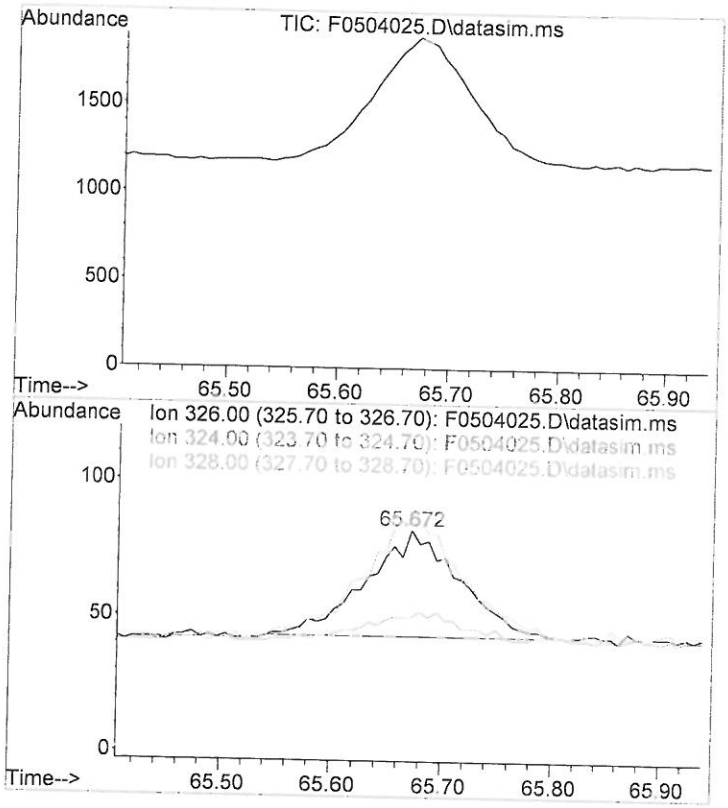




#96
CL5-BZ#97
Concen: 0.49 ng/mL
RT: 64.985 min Scan# 8423
Delta R.T. 0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:326 Resp: 156

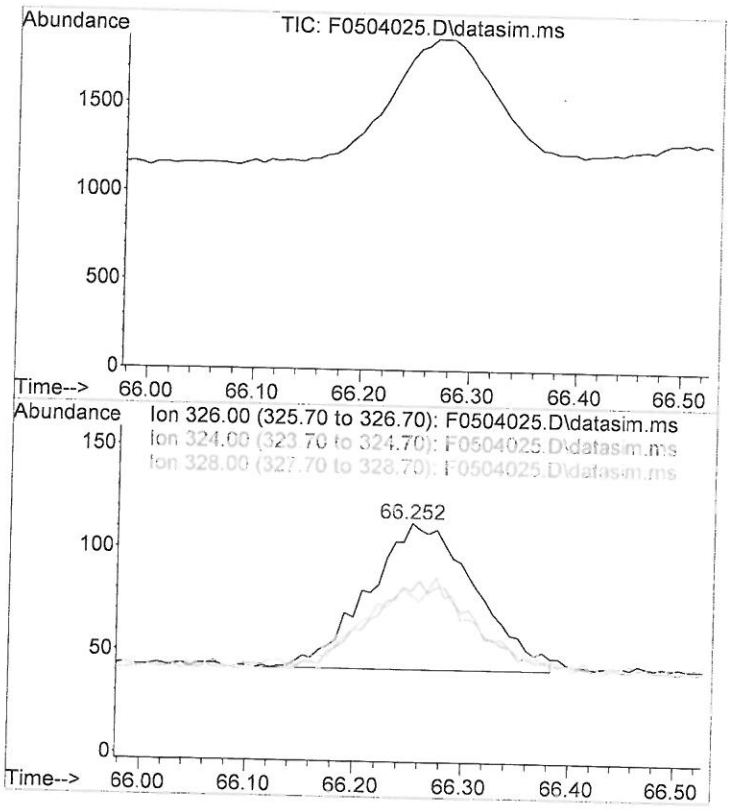
Ion	Ratio	Lower	Upper
326	100		
324	69.2	43.4	83.4
328	68.6	43.5	83.5



#99
CL5-BZ#116
Concen: 0.47 ng/mL
RT: 65.672 min Scan# 8513
Delta R.T. -0.013 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:326 Resp: 227

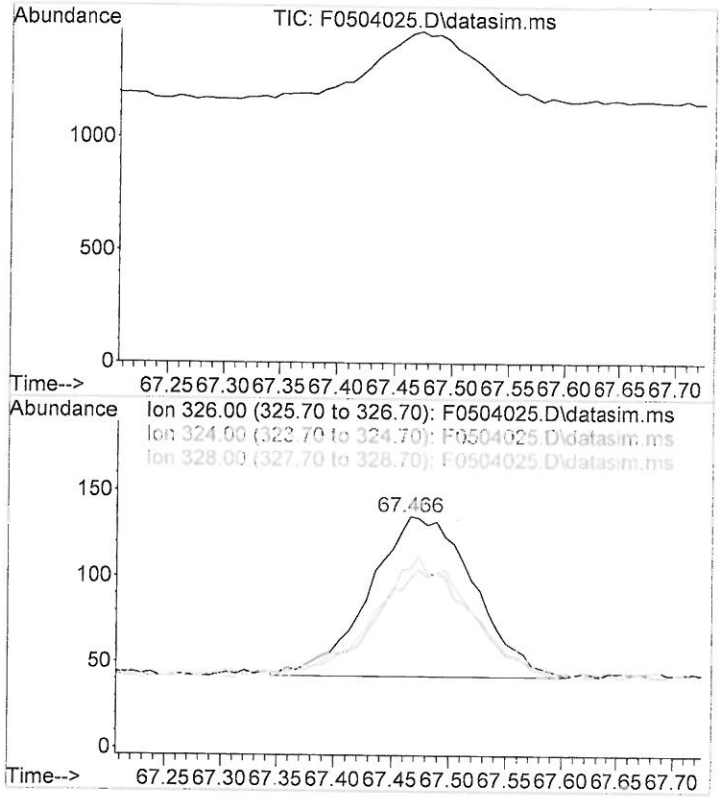
Ion	Ratio	Lower	Upper
326	100		
324	0.0	44.6	84.6#
328	116.7	46.0	86.0#



#100
CL5-BZ#87
Concen: 1.35 ng/mL
RT: 66.252 min Scan# 8589
Delta R.T. 0.003 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:326 Resp: 490

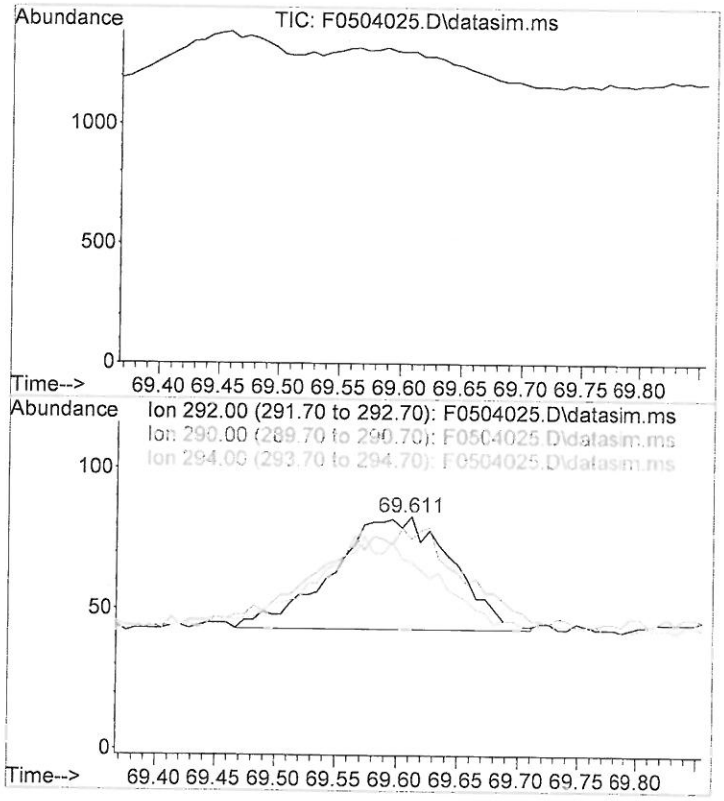
Ion	Ratio	Lower	Upper
326	100		
324	58.0	43.5	83.5
328	28.4	45.7	85.7#



#105
CL5-BZ#120/#110
Concen: 1.14 ng/mL
RT: 67.466 min Scan# 8748
Delta R.T. 0.071 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:326 Resp: 589

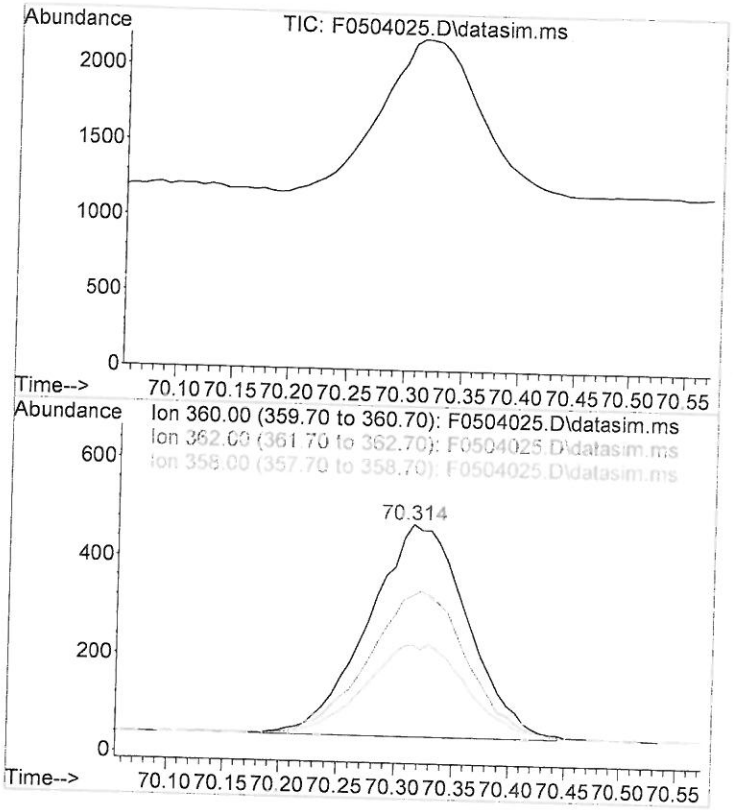
Ion	Ratio	Lower	Upper
326	100		
324	66.7	45.5	85.5
328	68.9	45.3	85.3



#112
CL4-BZ#77
Concen: 0.40 ng/mL
RT: 69.611 min Scan# 9029
Delta R.T. 0.010 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:292 Resp: 270

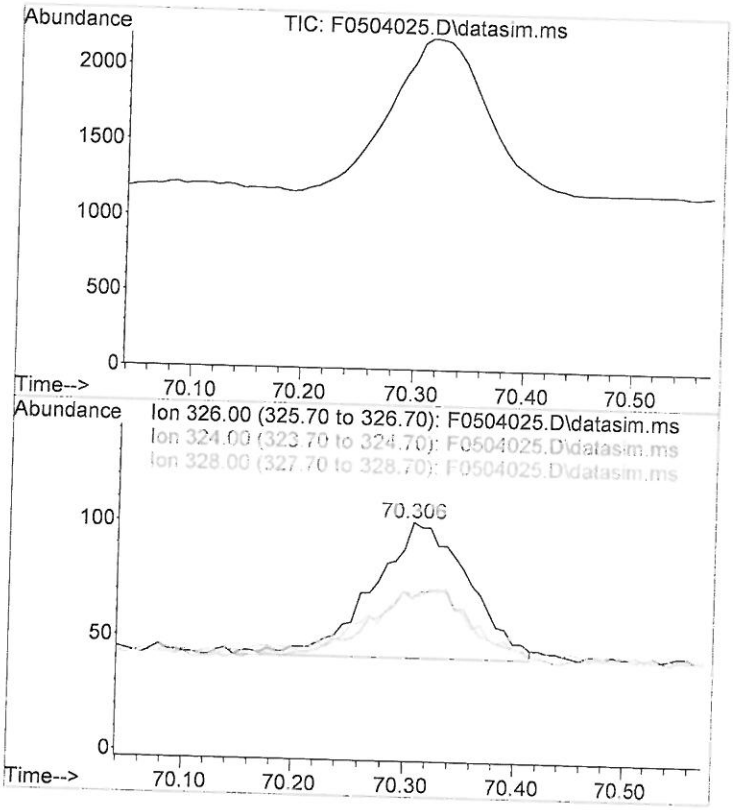
Ion	Ratio	Lower	Upper
292	100		
290	95.9	65.3	105.3
294	37.4	27.9	67.9



#114
CL6-BZ#140
Concen: 8.70 ng/mL m
RT: 70.314 min Scan# 9121
Delta R.T. 0.071 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:360 Resp: 2622

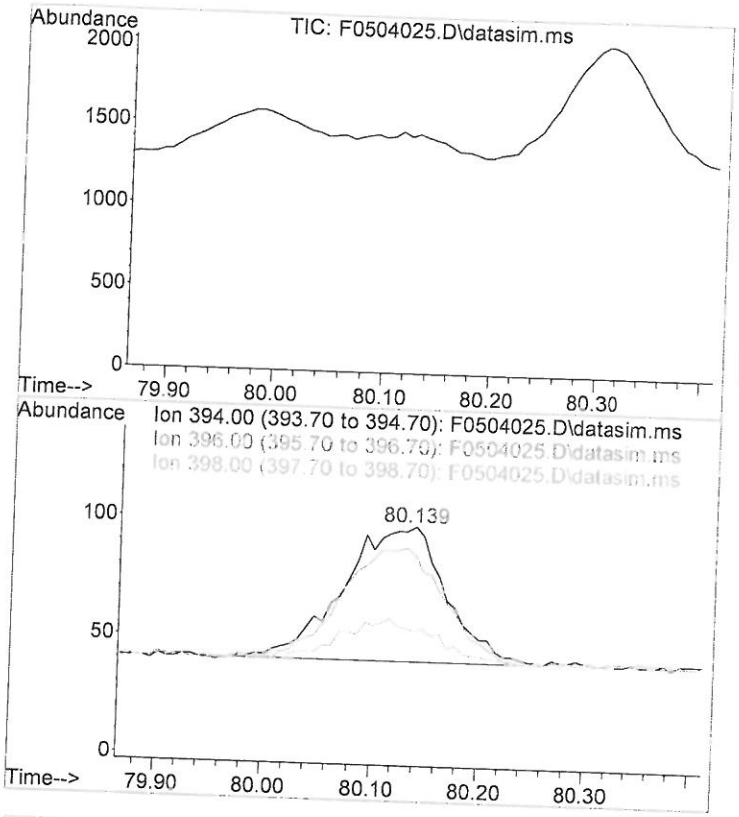
Ion	Ratio	Lower	Upper
360	100		
362	62.8	58.0	98.0
358	40.6	33.8	73.8



#115
CL5-BZ#124
Concen: 0.67 ng/mL
RT: 70.306 min Scan# 9120
Delta R.T. 0.018 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:326 Resp: 355

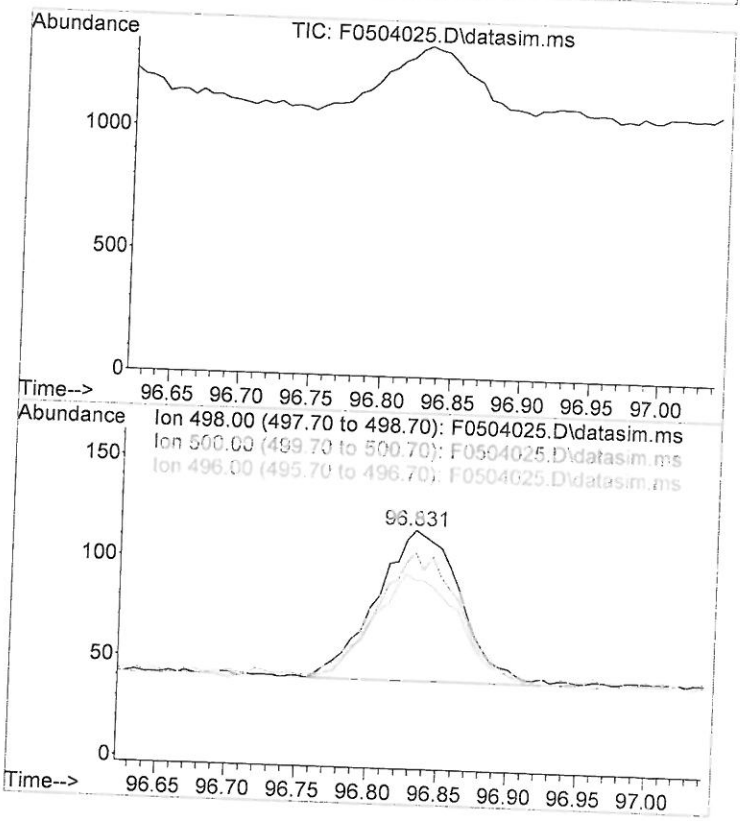
Ion	Ratio	Lower	Upper
326	100		
324	51.0	44.0	84.0
328	43.4	44.6	84.6#



#151
CL7-BZ#185
Concen: 2.05 ng/mL
RT: 80.139 min Scan# 10408
Delta R.T. 0.025 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:394 Resp: 375

Ion	Ratio	Lower	Upper
394	100		
396	83.7	71.3	111.3
398	28.5	29.3	69.3#



#185
CL10-BZ#209
Concen: 1.76 ng/mL
RT: 96.831 min Scan# 12893
Delta R.T. 0.002 min
Lab File: F0504025.D
Acq: 6 May 2017 6:03 am

Tgt Ion:498 Resp: 313

Ion	Ratio	Lower	Upper
498	100		
500	81.5	64.3	104.3
496	69.0	50.9	90.9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504026.D
Acq On : 6 May 2017 7:49 am
Operator : CJM
Sample : 17D0859-03 Inst : GCMSSV6
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 08 13:07:40 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

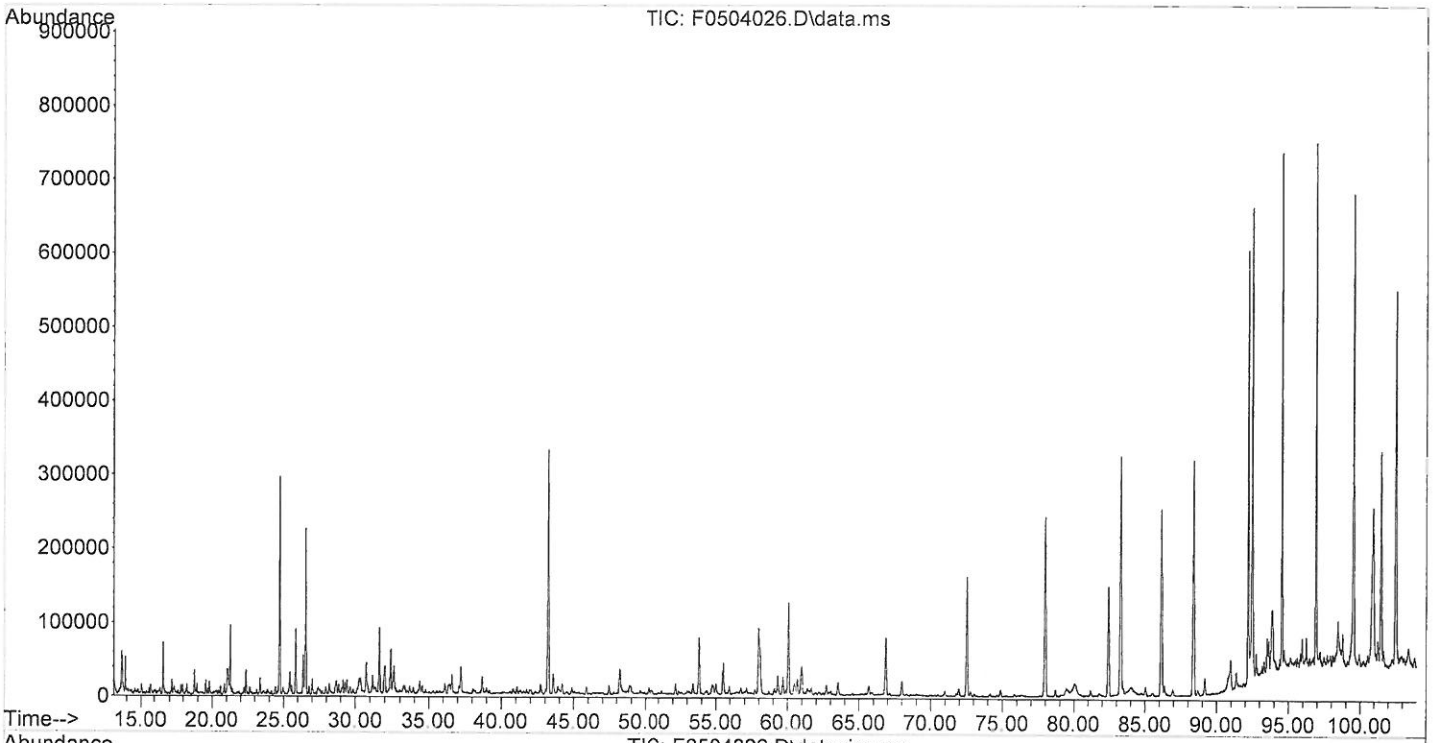
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Phenanthrene-D10	43.232	188	962740	500.000	ng/mL	0.00
81) Chrysene-D12	86.145	240	684854	500.000	ng/mL	0.00
177) Perylene-D12	101.500	264	653434	500.000	ng/mL	0.02
System Monitoring Compounds						
6) TCMX	31.966	244	11496	47.505	ng/mL	0.00
Target Compounds						Qvalue
2] CL1-BZ#1	24.715	188	138247	133.915	ng/mL	98
3] CL1-BZ#2	29.168	188	30449	22.905	ng/mL	99
4] CL1-BZ#3	30.153	188	10339	8.512	ng/mL	98
5] CL2-BZ#4/#10	30.996	222	634	0.799	ng/mL#	68
7] CL2-BZ#9	34.370	222	388	0.341	ng/mL#	68
8] CL2-BZ#7	34.538	222	213	0.201	ng/mL#	20
9] CL2-BZ#6	35.434	222	594	0.513	ng/mL	93
10] CL2-BZ#5	36.277	222	212	0.207	ng/mL	95
11] CL2-BZ#8	36.644	222	1656	1.368	ng/mL	93
15] CL3-BZ#18	41.087	256	284	0.546	ng/mL	92
16] CL2-BZ#11	41.324	222	451	0.378	ng/mL#	44
17] CL3-BZ#17	41.476	256	134	0.229	ng/mL#	1
23] CL3-BZ#32	43.813	256	135	0.147	ng/mL	94
24] CL2-BZ#15	44.164	222	314	0.278	ng/mL#	50
44] CL4-BZ#52	51.737	292	478	0.848	ng/mL	97
71] CL5-BZ#93	59.089	326	205m	0.534	ng/mL	
74] CL5-BZ#88/#95	59.493	326	328	0.715	ng/mL	96
86] CL5-BZ#90/#101	62.623	326	252	0.547	ng/mL#	17
99] CL5-BZ#116	65.685	326	220	0.384	ng/mL#	79
105] CL5-BZ#120/#110	67.471	326	316	0.518	ng/mL	91
185] CL10-BZ#209	96.835	498	523	2.409	ng/mL	98

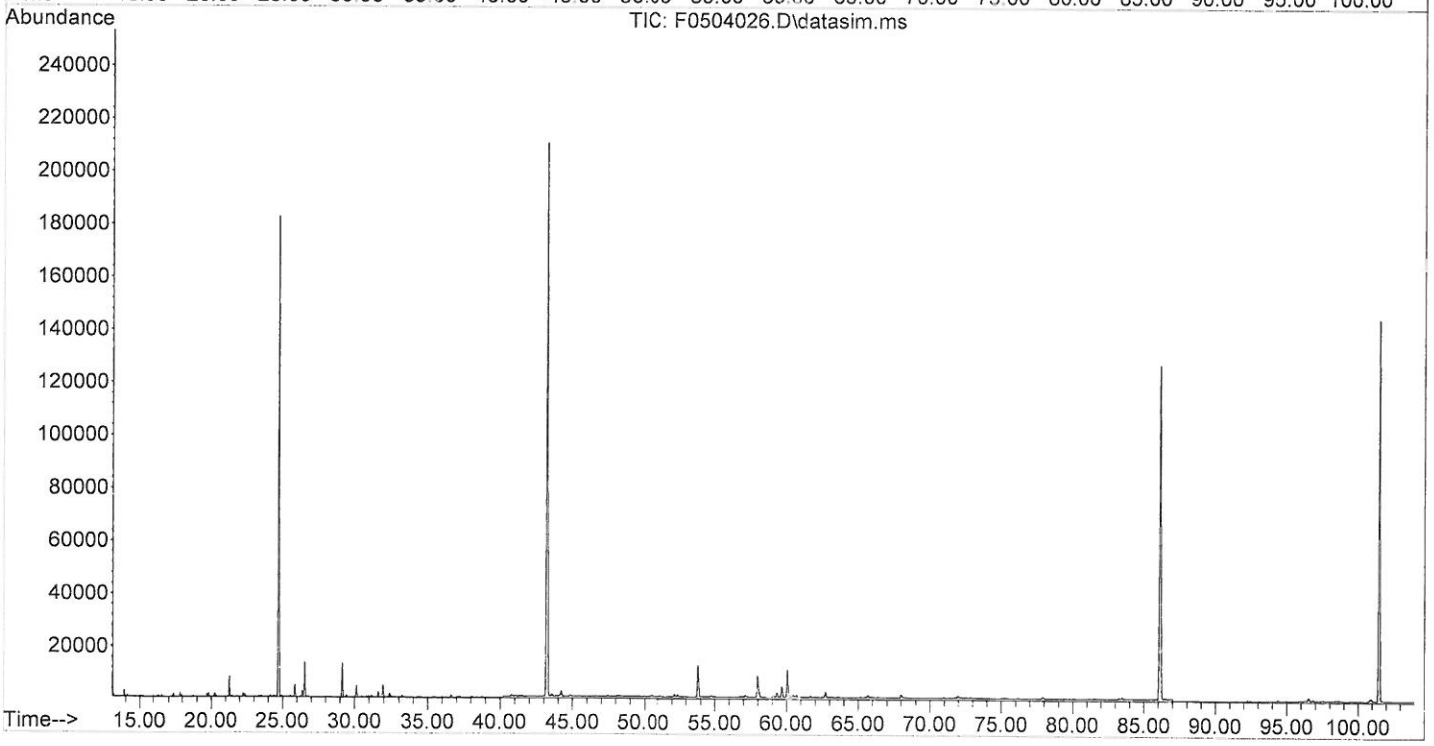
(#) = qualifier out of range (m) = manual integration (+) = signals summed

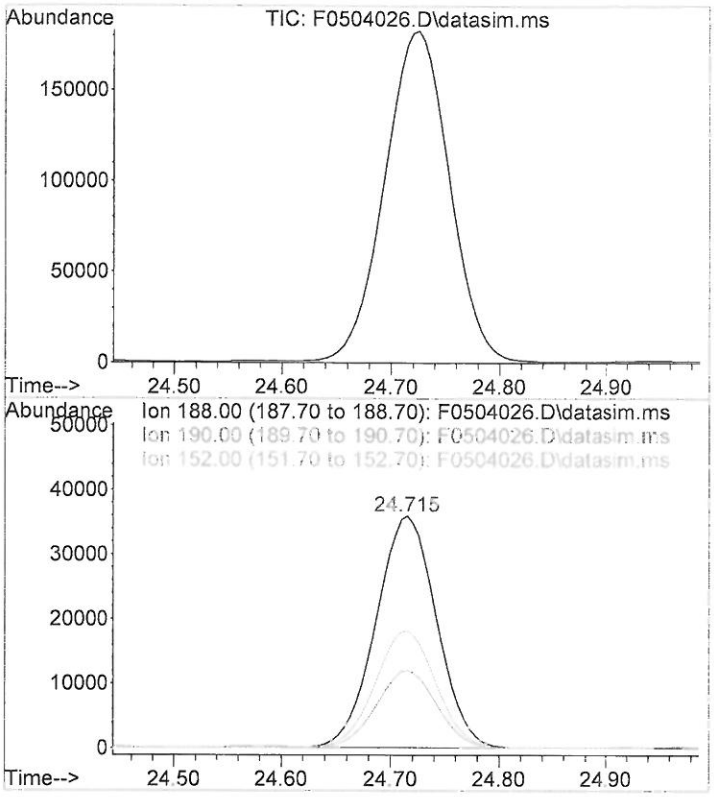
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504026.D
Acq On : 6 May 2017 7:49 am
Operator : CJM
Sample : 17D0859-03 Inst : GCMSSV6
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 08 13:07:40 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration



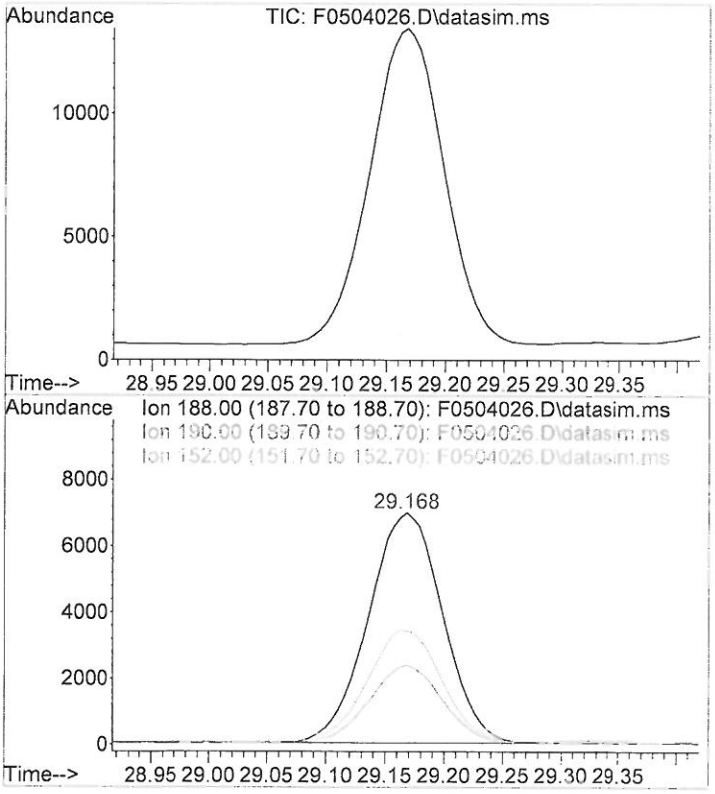




#2
CL1-BZ#1
Concen: 133.92 ng/mL
RT: 24.715 min Scan# 2220
Delta R.T. -0.005 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:188 Resp: 138247

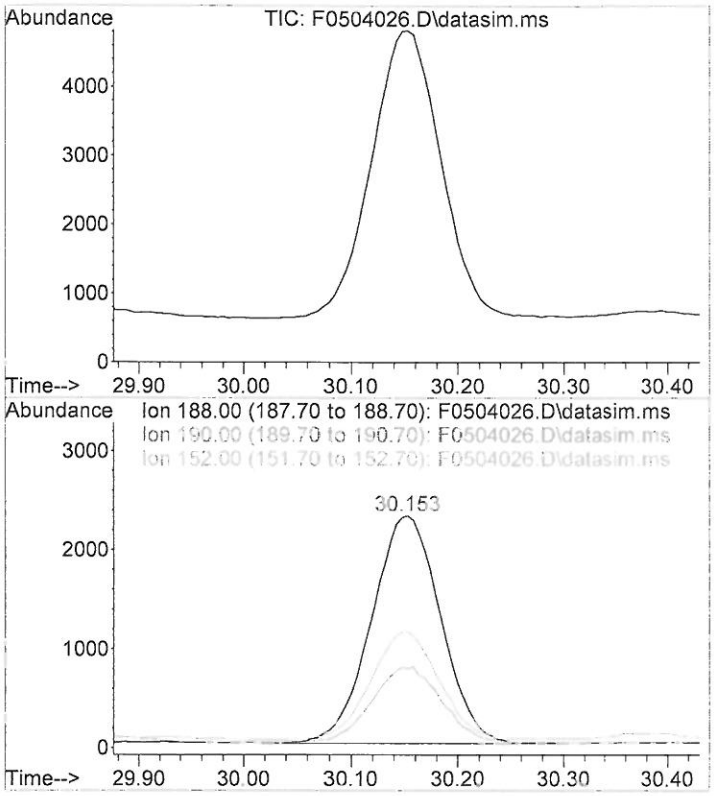
Ion	Ratio	Lower	Upper
188	100		
190	33.3	13.8	53.8
152	50.6	32.8	72.8



#3
CL1-BZ#2
Concen: 22.90 ng/mL
RT: 29.168 min Scan# 3070
Delta R.T. -0.005 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:188 Resp: 30449

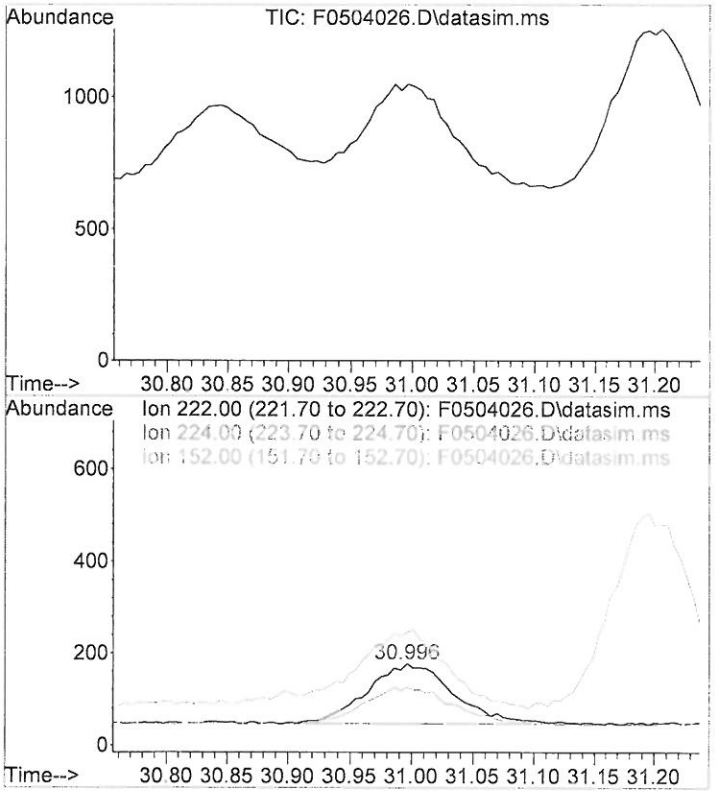
Ion	Ratio	Lower	Upper
188	100		
190	33.2	14.2	54.2
152	48.6	29.3	69.3



#4
CL1-BZ#3
Concen: 8.51 ng/mL
RT: 30.153 min Scan# 3258
Delta R.T. -0.005 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:188 Resp: 10339

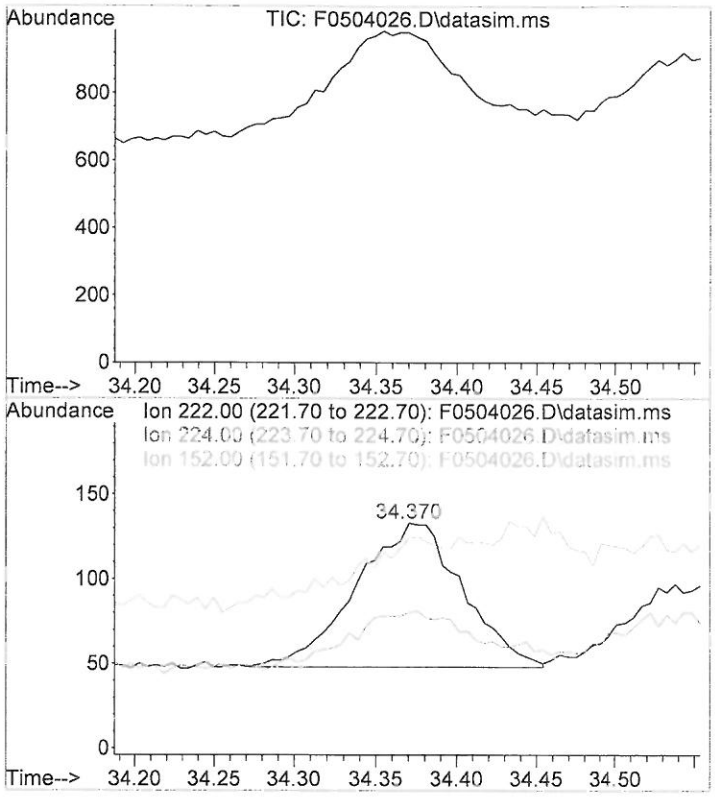
Ion	Ratio	Lower	Upper
188	100		
190	33.6	13.5	53.5
152	47.2	29.3	69.3



#5
CL2-BZ#4/#10
Concen: 0.80 ng/mL
RT: 30.996 min Scan# 3419
Delta R.T. -0.037 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:222 Resp: 634

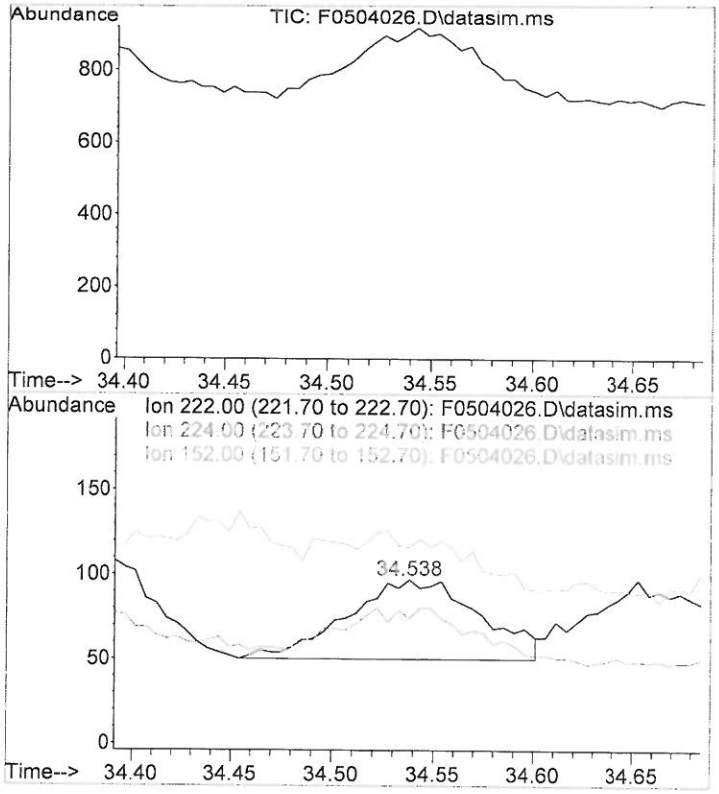
Ion	Ratio	Lower	Upper
222	100		
224	65.6	45.4	85.4
152	134.5	63.9	103.9#



#7
CL2-BZ#9
Concen: 0.34 ng/mL
RT: 34.370 min Scan# 4063
Delta R.T. -0.005 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:222 Resp: 388

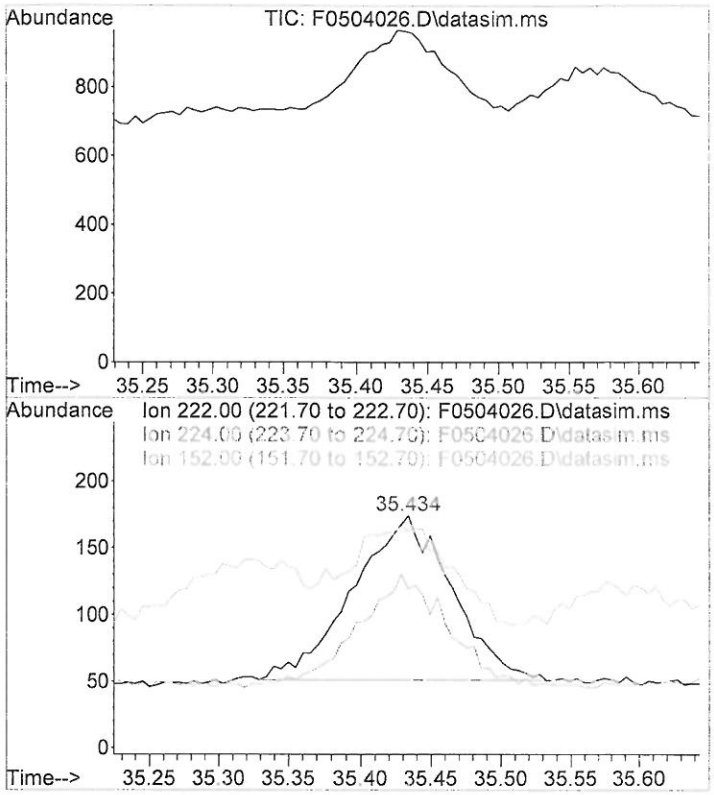
Ion	Ratio	Lower	Upper
222	100		
224	47.4	44.5	84.5
152	28.9	41.2	81.2#



#8
CL2-BZ#7
Concen: 0.20 ng/mL
RT: 34.538 min Scan# 4095
Delta R.T. -0.010 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:222 Resp: 213

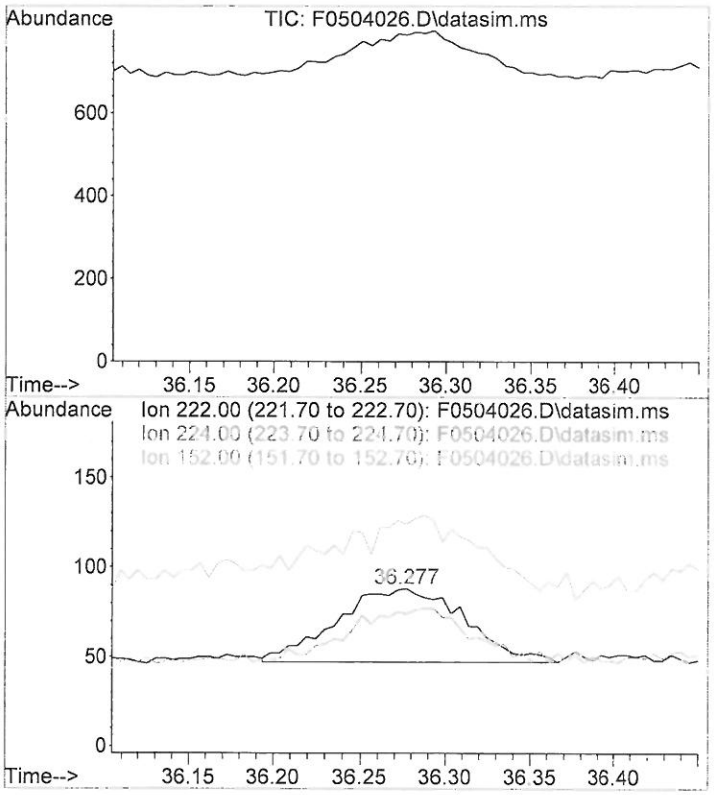
Ion	Ratio	Lower	Upper
222	100		
224	0.0	43.4	83.4#
152	0.0	38.4	78.4#



#9
CL2-BZ#6
Concen: 0.51 ng/mL
RT: 35.434 min Scan# 4266
Delta R.T. -0.000 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:222 Resp: 594

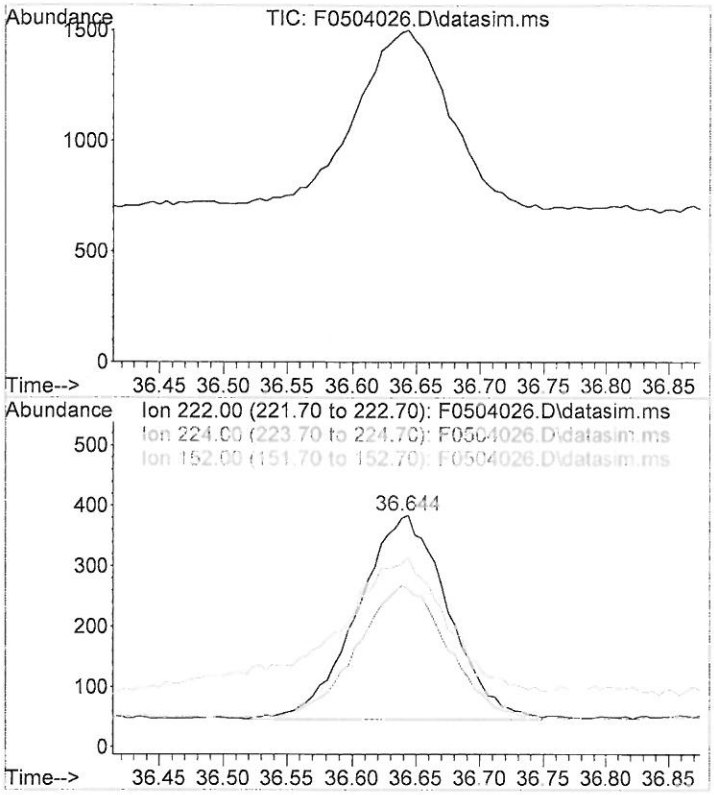
Ion	Ratio	Lower	Upper
222	100		
224	65.2	44.5	84.5
152	55.1	45.2	85.2



#10
CL2-BZ#5
Concen: 0.21 ng/mL
RT: 36.277 min Scan# 4427
Delta R.T. -0.005 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:222 Resp: 212

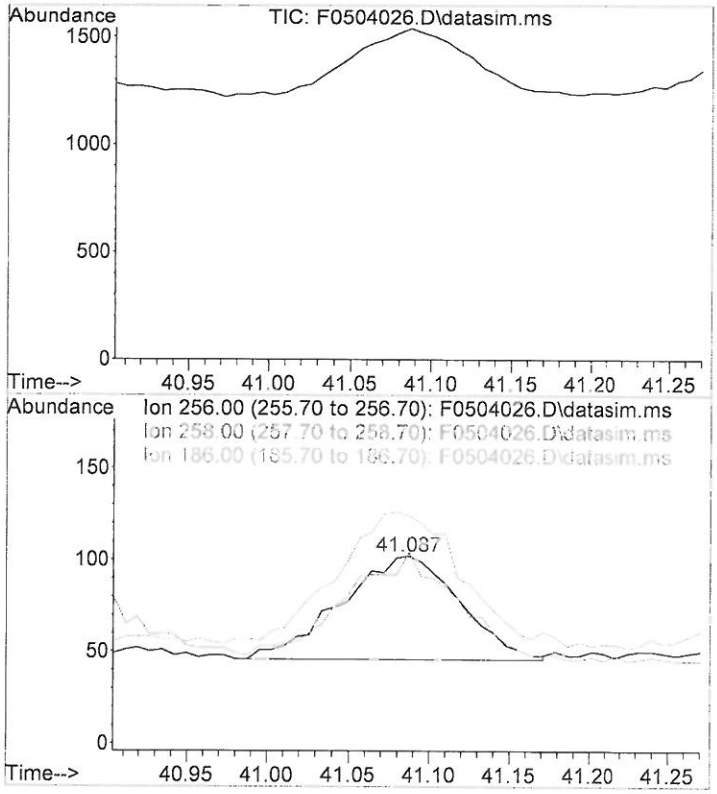
Ion	Ratio	Lower	Upper
222	100		
224	63.7	44.4	84.4
152	72.6	45.6	85.6



#11
CL2-BZ#8
Concen: 1.37 ng/mL
RT: 36.644 min Scan# 4497
Delta R.T. -0.000 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:222 Resp: 1656

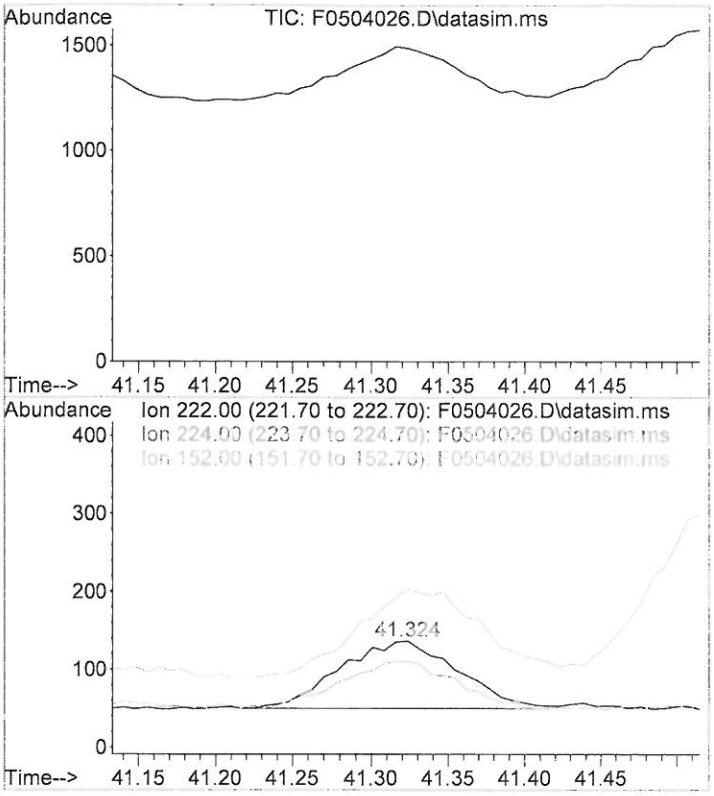
Ion	Ratio	Lower	Upper
222	100		
224	66.1	43.9	83.9
152	71.9	43.3	83.3



#15
CL3-BZ#18
Concen: 0.55 ng/mL
RT: 41.087 min Scan# 5293
Delta R.T. 0.008 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:256 Resp: 284

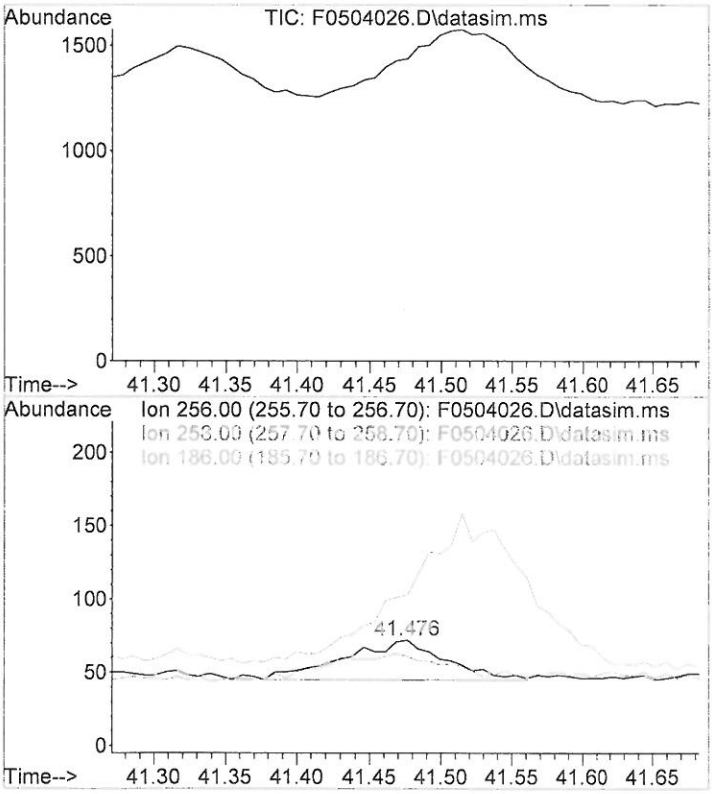
Ion	Ratio	Lower	Upper
256	100		
258	97.9	74.7	114.7
186	139.8	106.5	146.5



#16
CL2-BZ#11
Concen: 0.38 ng/mL
RT: 41.324 min Scan# 5324
Delta R.T. 0.008 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:222 Resp: 451

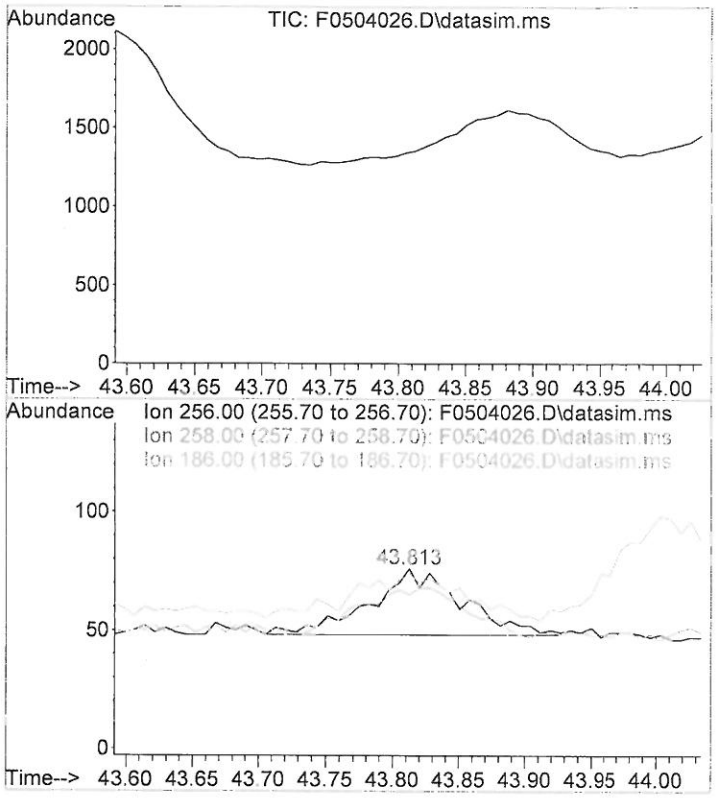
Ion	Ratio	Lower	Upper
222	100		
224	69.6	44.2	84.2
152	142.6	40.5	80.5#



#17
CL3-BZ#17
Concen: 0.23 ng/mL
RT: 41.476 min Scan# 5344
Delta R.T. -0.000 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:256 Resp: 134

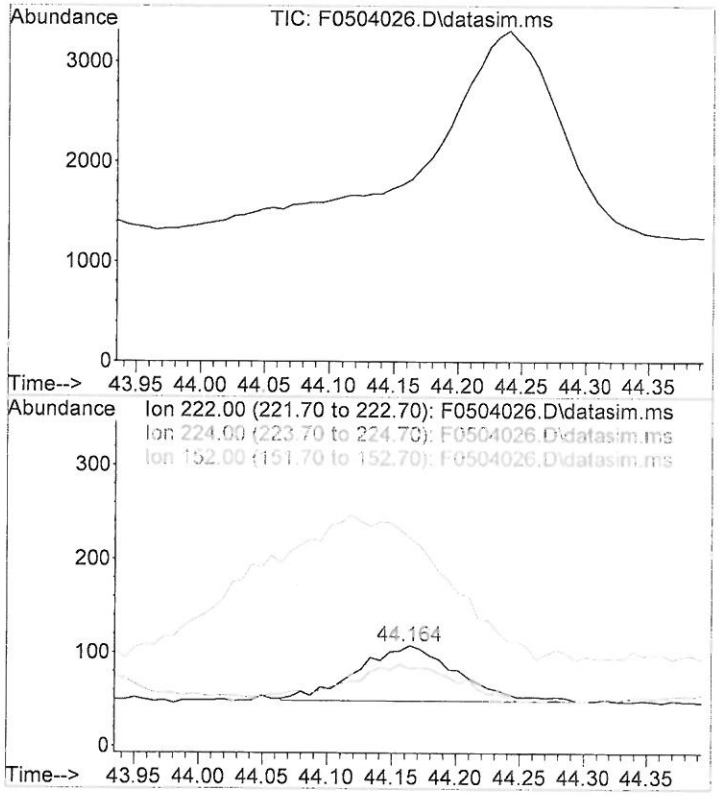
Ion	Ratio	Lower	Upper
256	100		
258	0.0	74.0	114.0#
186	437.3	94.6	134.6#



#23
CL3-BZ#32
Concen: 0.15 ng/mL
RT: 43.813 min Scan# 5650
Delta R.T. -0.008 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:256 Resp: 135

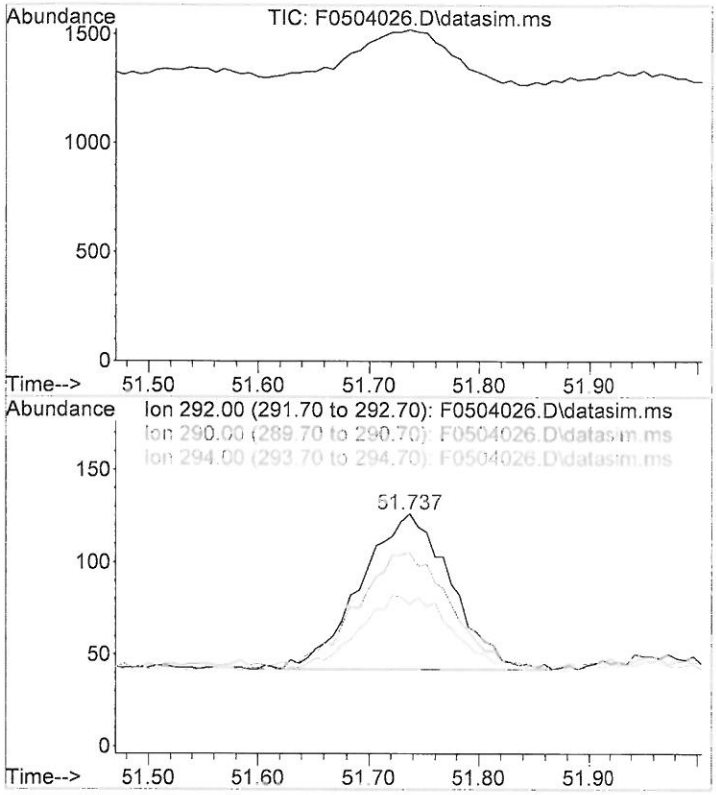
Ion	Ratio	Lower	Upper
256	100		
258	86.7	74.8	114.8
186	74.8	52.6	92.6



#24
CL2-BZ#15
Concen: 0.28 ng/mL
RT: 44.164 min Scan# 5696
Delta R.T. -0.000 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:222 Resp: 314

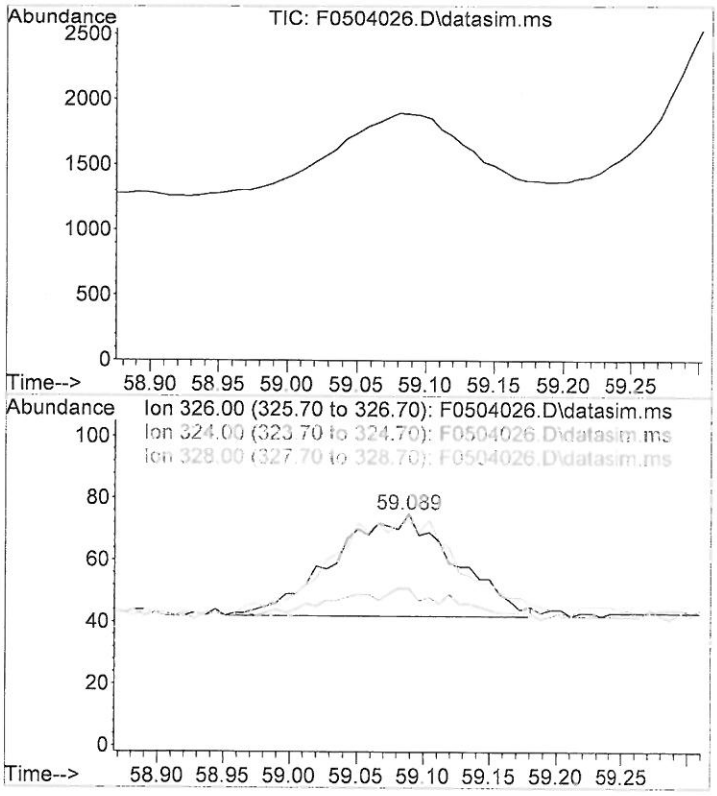
Ion	Ratio	Lower	Upper
222	100		
224	76.1	44.3	84.3
152	122.9	37.4	77.4#



#44
CL4-BZ#52
Concen: 0.85 ng/mL
RT: 51.737 min Scan# 6688
Delta R.T. -0.000 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:292 Resp: 478

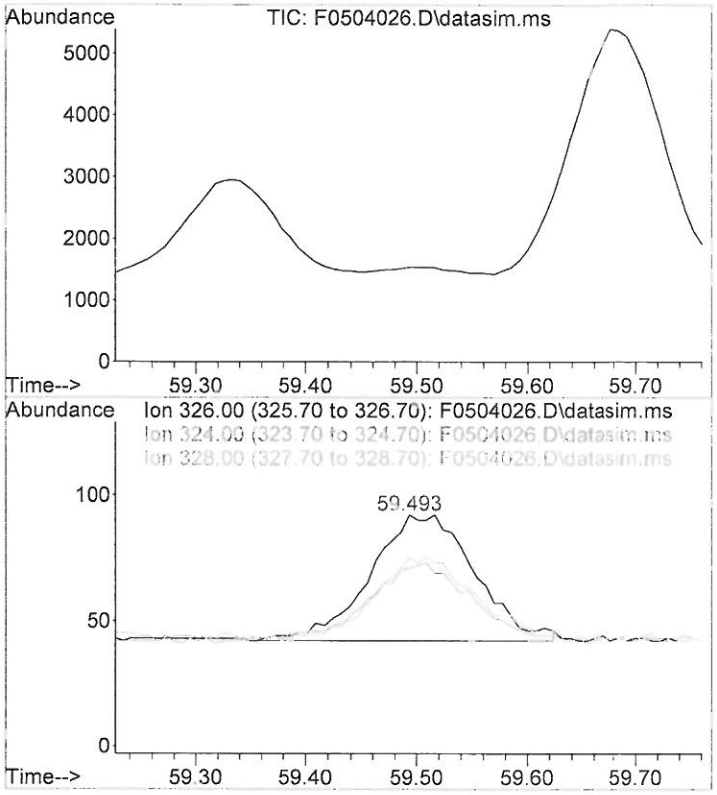
Ion	Ratio	Lower	Upper
292	100		
290	75.1	58.5	98.5
294	48.1	30.1	70.1



#71
CL5-BZ#93
Concen: 0.53 ng/mL m
RT: 59.089 min Scan# 7651
Delta R.T. 0.031 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:326 Resp: 205

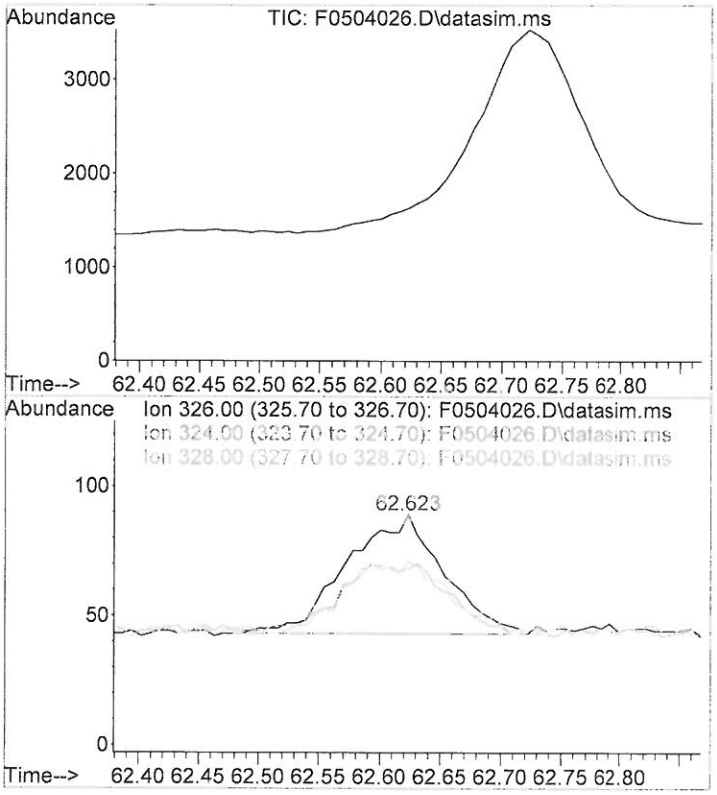
Ion	Ratio	Lower	Upper
326	100		
324	0.0	45.7	85.7#
328	55.1	46.6	86.6



#74
CL5-BZ#88/#95
Concen: 0.71 ng/mL
RT: 59.493 min Scan# 7704
Delta R.T. -0.000 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:326 Resp: 328

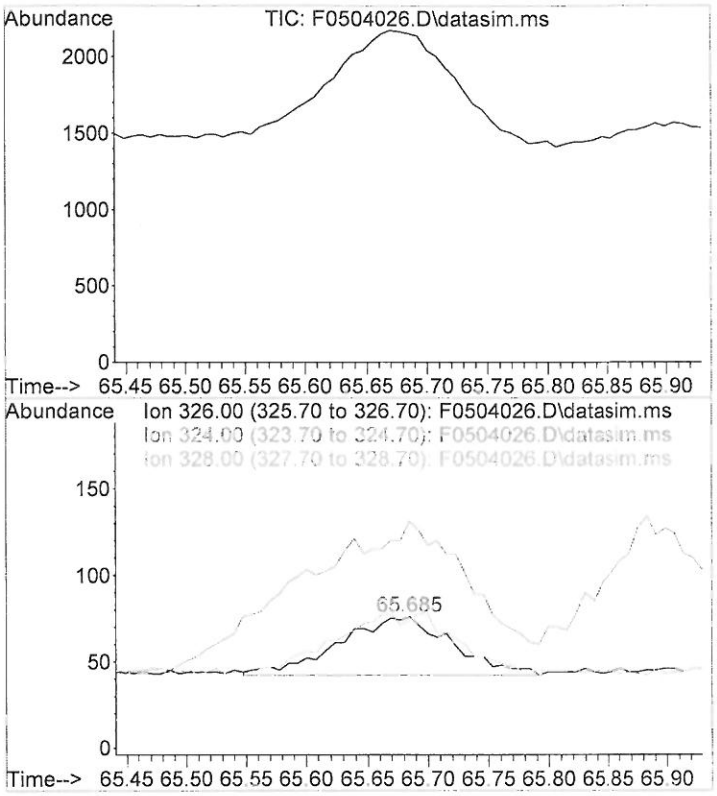
Ion	Ratio	Lower	Upper
326	100		
324	59.8	44.0	84.0
328	61.3	43.4	83.4



#86
CL5-BZ#90/#101
Concen: 0.55 ng/mL
RT: 62.623 min Scan# 8114
Delta R.T. 0.015 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:326 Resp: 252

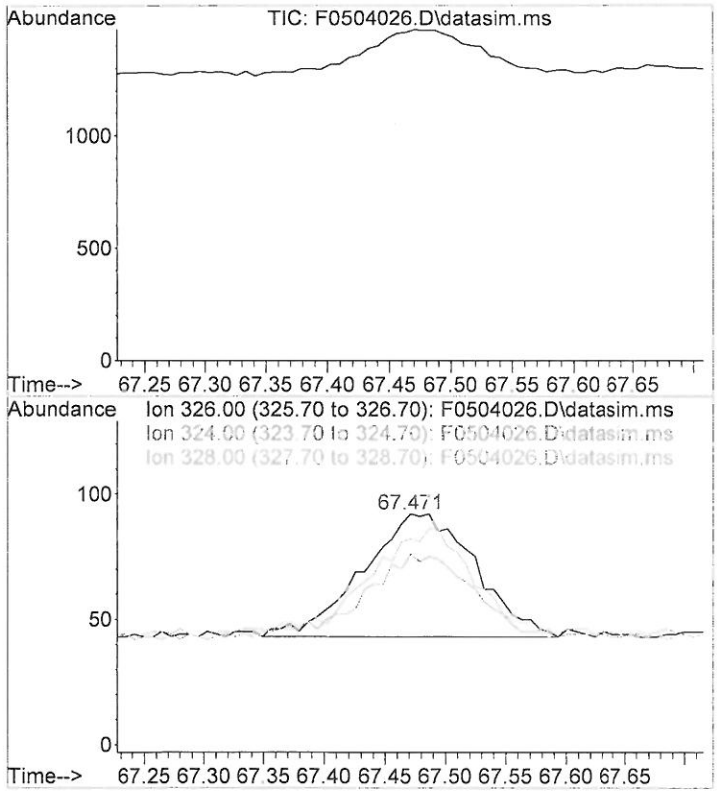
Ion	Ratio	Lower	Upper
326	100		
324	0.0	44.7	84.7#
328	0.0	45.9	85.9#



#99
CL5-BZ#116
Concen: 0.33 ng/mL
RT: 65.685 min Scan# 8515
Delta R.T. -0.000 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:326 Resp: 220

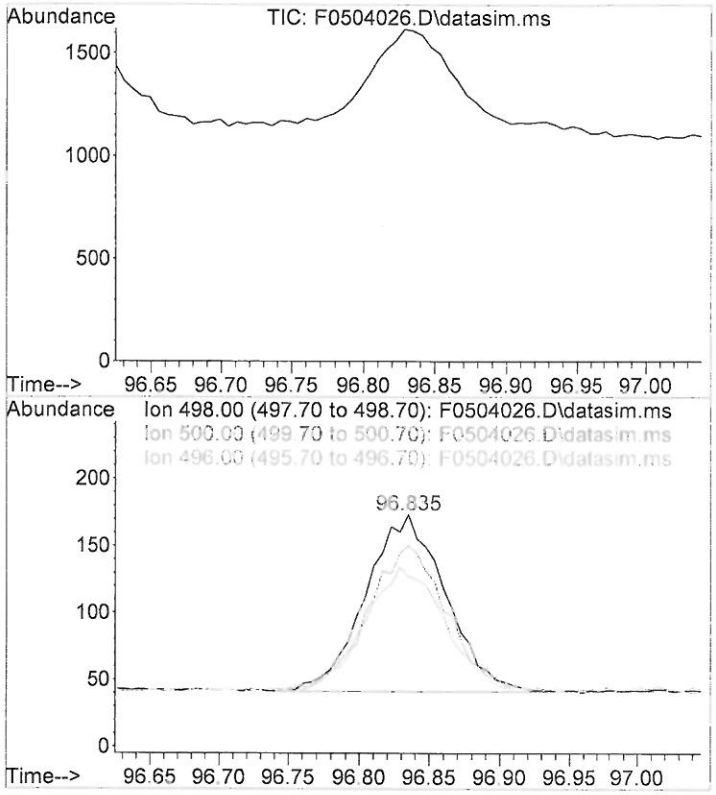
Ion	Ratio	Lower	Upper
326	100		
324	90.5	44.6	84.6#
328	58.2	46.0	86.0



#105
CL5-BZ#120/#110
Concen: 0.52 ng/mL
RT: 67.471 min Scan# 8749
Delta R.T. 0.076 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:326 Resp: 316

Ion	Ratio	Lower	Upper
326	100		
324	63.9	45.5	85.5
328	77.2	45.3	85.3



#185
CL10-BZ#209
Concen: 2.41 ng/mL
RT: 96.835 min Scan# 12894
Delta R.T. 0.006 min
Lab File: F0504026.D
Acq: 6 May 2017 7:49 am

Tgt Ion:498 Resp: 523

Ion	Ratio	Lower	Upper
498	100		
500	81.6	64.3	104.3
496	72.3	50.9	90.9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504019.D
Acq On : 5 May 2017 7:24 pm
Operator : CJM
Sample : 17D0925-01 Inst : GCMSSV6
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 08 12:45:55 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Phenanthrene-D10	43.227	188	922725	500.000	ng/mL	0.00
81) Chrysene-D12	86.139	240	697932	500.000	ng/mL	0.00
177) Perylene-D12	101.490	264	686366	500.000	ng/mL	0.00
System Monitoring Compounds						
6) TCMX	31.960	244	9650	41.606	ng/mL	0.00
Target Compounds						Qvalue
2] CL1-BZ#1	24.705	188	593	0.599	ng/mL#	51
5] CL2-BZ#4/#10	30.991	222	196	0.258	ng/mL#	41
7] CL2-BZ#9	34.360	222	125	0.115	ng/mL#	19
11] CL2-BZ#8	36.649	222	173	0.149	ng/mL#	46
15] CL3-BZ#18	41.074	256	900	1.805	ng/mL	96
16] CL2-BZ#11	41.326	222	326	0.285	ng/mL#	83
17] CL3-BZ#17	41.464	256	392	0.698	ng/mL#	78
22] CL3-BZ#16	43.357	256	224	0.518	ng/mL#	17
23] CL3-BZ#32	43.823	256	196	0.223	ng/mL	87
24] CL2-BZ#15	44.158	222	1336	1.235	ng/mL	97
29] CL4-BZ#50	46.441	292	117	0.224	ng/mL#	17
32] CL4-BZ#53	47.930	292	248	0.517	ng/mL	97
33] CL3-BZ#31	48.121	256	1269	1.412	ng/mL	95
34] CL3-BZ#28	48.502	256	1054	1.226	ng/mL	96
37] CL4-BZ#45	49.785	292	119	0.261	ng/mL#	17
44] CL4-BZ#52	51.732	292	9135	16.905	ng/mL	99
45] CL4-BZ#48	51.945	292	201	0.415	ng/mL#	71
46] CL4-BZ#49	52.312	292	1747	3.094	ng/mL	99
48] CL4-BZ#47/#65/#62	52.854	292	273	0.441	ng/mL	98
52] CL4-BZ#44	54.114	292	3087	7.586	ng/mL	99
54] CL4-BZ#42	54.679	292	245	0.610	ng/mL	97
55] CL4-BZ#71	55.159	292	364	0.539	ng/mL	97
61] CL4-BZ#64	56.457	292	583m	0.902	ng/mL	
62] CL4-BZ#40/#68	56.564	292	143	0.272	ng/mL#	61
63] CL3-BZ#37	57.068	256	275	0.358	ng/mL	90
68] CL5-BZ#102	58.267	326	109	0.269	ng/mL#	18
71] CL5-BZ#93	59.091	326	154	0.418	ng/mL#	28
74] CL5-BZ#88/#95	59.503	326	5337	12.130	ng/mL	99
76] CL4-BZ#74	59.877	292	864	1.251	ng/mL	100
78] CL4-BZ#70	60.221	292	4158	5.208	ng/mL	91
79] CL5-BZ#91	60.481	326	439	1.100	ng/mL	94
80] CL4-BZ#66	60.733	292	998	1.359	ng/mL	93
83] CL5-BZ#92	61.839	326	768	1.747	ng/mL	98
84] CL5-BZ#89/#84	62.175	326	1034	2.647	ng/mL	96
85] CL4-BZ#56	62.412	292	564	0.795	ng/mL	98
86] CL5-BZ#90/#101	62.611	326	5718	12.185	ng/mL	99
88] CL4-BZ#60	63.229	292	244	0.275	ng/mL#	36
89] CL5-BZ#99	63.275	326	1283	2.520	ng/mL	96
96] CL5-BZ#97	64.985	326	985	2.587	ng/mL	96
99] CL5-BZ#116	65.702	326	157	0.269	ng/mL#	17
100] CL5-BZ#87	66.229	326	1613	3.696	ng/mL	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504019.D
Acq On : 5 May 2017 7:24 pm
Operator : CJM
Sample : 17D0925-01 Inst : GCMSSV6
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 08 12:45:55 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

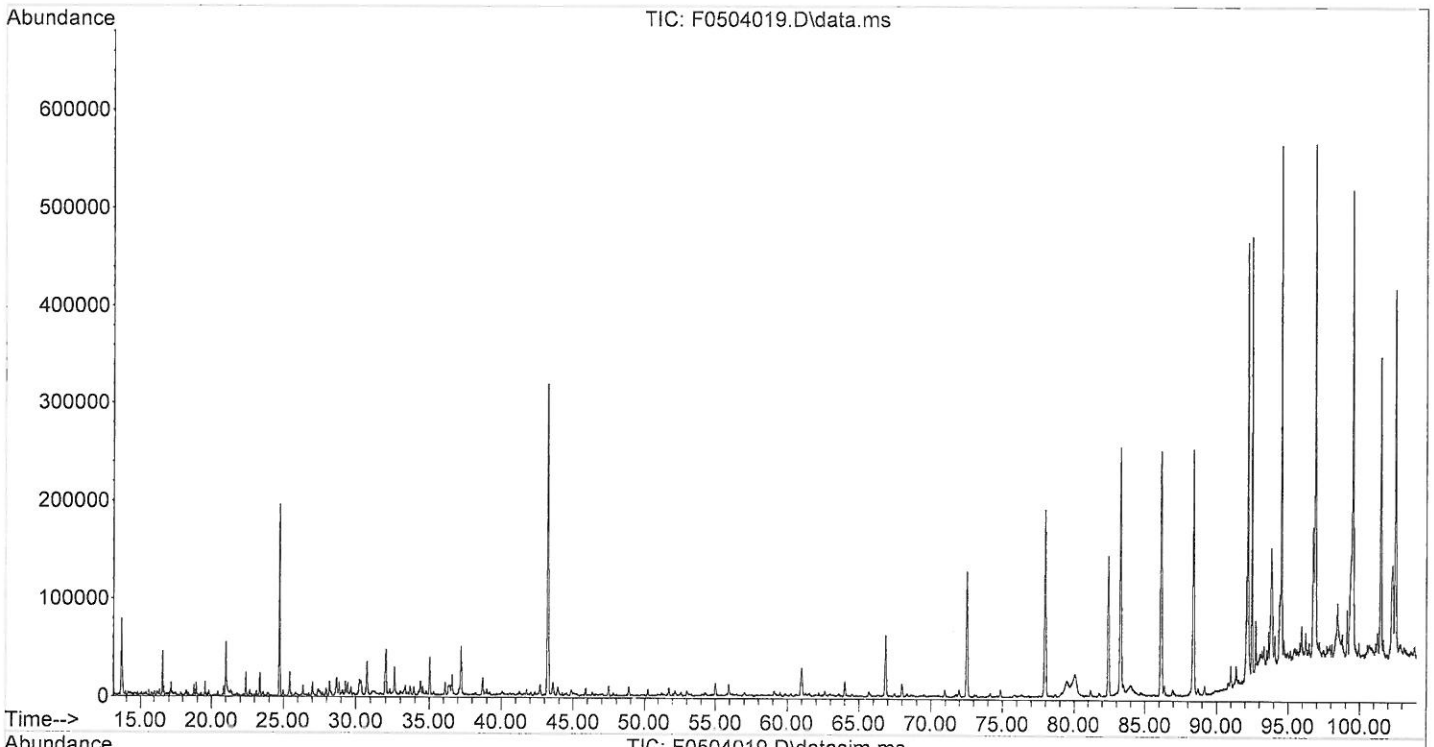
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
102] CL6-BZ#154/#136	66.428	360	876	1.924 ng/mL	97
104] CL5-BZ#85	66.886	326	430	0.972 ng/mL#	77
105] CL5-BZ#120/#110	67.481	326	5124	8.234 ng/mL	99
107] CL6-BZ#151	68.298	360	1021	2.919 ng/mL	96
108] CL6-BZ#135	68.542	360	423	1.357 ng/mL	96
109] CL5-BZ#82	68.680	326	263	0.744 ng/mL#	56
110] CL6-BZ#144	68.924	360	216	0.599 ng/mL	97
111] CL6-BZ#147/#149	69.542	360	2910	8.173 ng/mL	99
117] CL5-BZ#123/#107	71.001	326	200	0.289 ng/mL#	67
119] CL6-BZ#134	71.039	360	134	0.507 ng/mL#	67
123] CL5-BZ#118	71.672	326	2676	4.843 ng/mL	100
126] CL6-BZ#146	72.337	360	379	1.023 ng/mL	97
131] CL6-BZ#153	73.207	360	3212	8.112 ng/mL	98
132] CL6-BZ#132	73.482	360	822	2.886 ng/mL	97
133] CL7-BZ#179	74.039	394	366	1.025 ng/mL	88
134] CL6-BZ#141	74.696	360	604	1.862 ng/mL#	86
136] CL5-BZ#105	75.054	326	1002	1.378 ng/mL	98
140] CL6-BZ#130/#164	76.154	360	346	0.926 ng/mL#	83
141] CL7-BZ#178	76.787	394	113	0.489 ng/mL#	71
142] CL6-BZ#138	76.803	360	1829	5.368 ng/mL	98
143] CL6-BZ#160/#129/#163	77.001	360	718	1.962 ng/mL	99
144] CL6-BZ#158	77.368	360	312	0.645 ng/mL#	71
146] CL7-BZ#187	77.871	394	638	2.583 ng/mL	99
147] CL7-BZ#183	78.597	394	316	1.184 ng/mL#	69
152] CL6-BZ#128/#162	80.460	360	269	0.775 ng/mL	99
153] CL7-BZ#174	80.543	394	525	2.221 ng/mL	96
157] CL7-BZ#177	81.902	394	237	1.087 ng/mL	93
159] CL7-BZ#171	82.467	394	126	0.538 ng/mL#	65
163] CL6-BZ#156	84.162	360	202	0.449 ng/mL#	67
166] CL7-BZ#180	84.788	394	988	4.482 ng/mL	98
171] CL8-BZ#201	88.300	430	155	0.930 ng/mL#	10
172] CL7-BZ#170	88.405	394	375m	1.691 ng/mL	
185] CL10-BZ#209	96.831	498	497	2.180 ng/mL	99

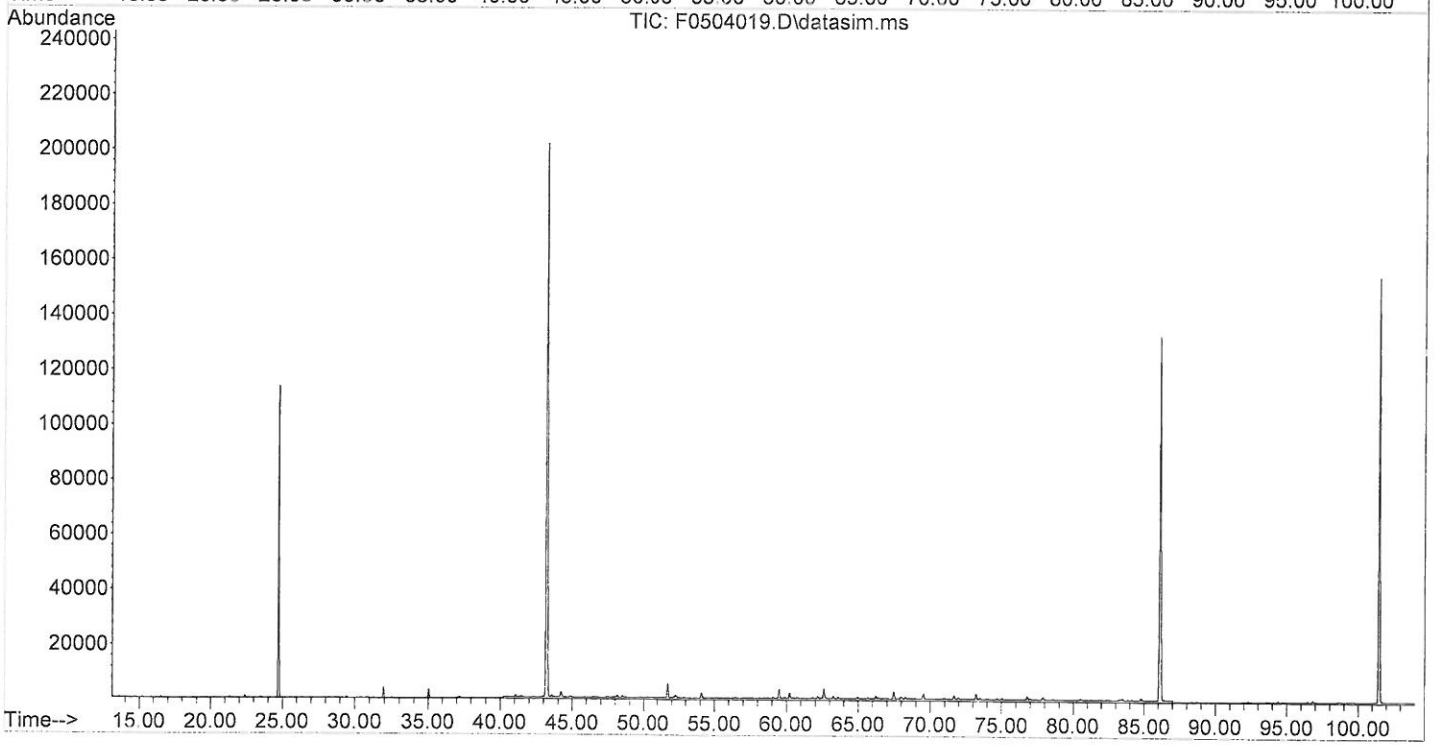
(#) = qualifier out of range (m) = manual integration (+) = signals summed

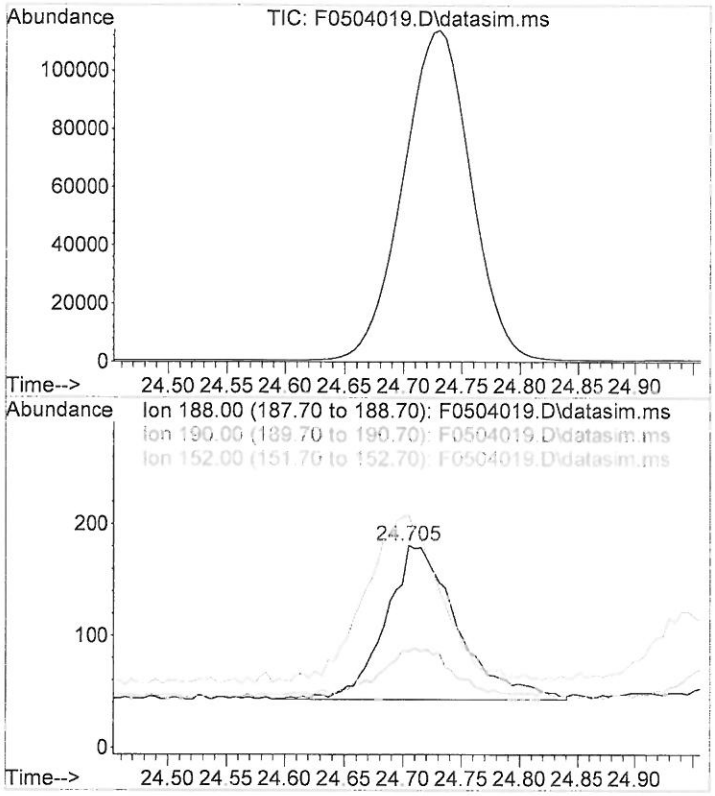
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504019.D
Acq On : 5 May 2017 7:24 pm
Operator : CJM
Sample : 17D0925-01 Inst : GCMSSV6
Misc :
ALS Vial : 37 Sample Multiplier: 1

Quant Time: May 08 12:45:55 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration



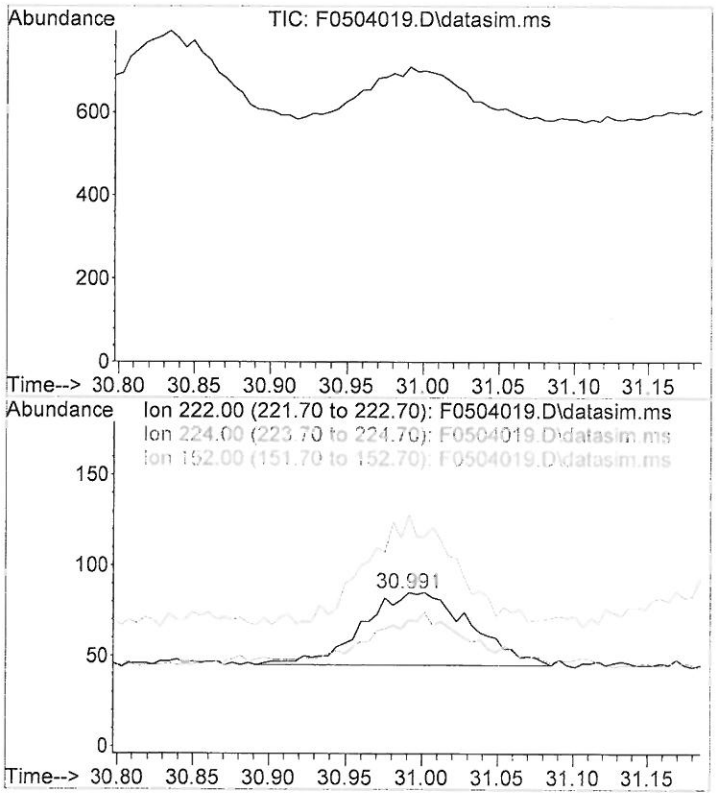




#2
CL1-BZ#1
Concen: 0.60 ng/mL
RT: 24.705 min Scan# 2218
Delta R.T. -0.016 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:188 Resp: 593

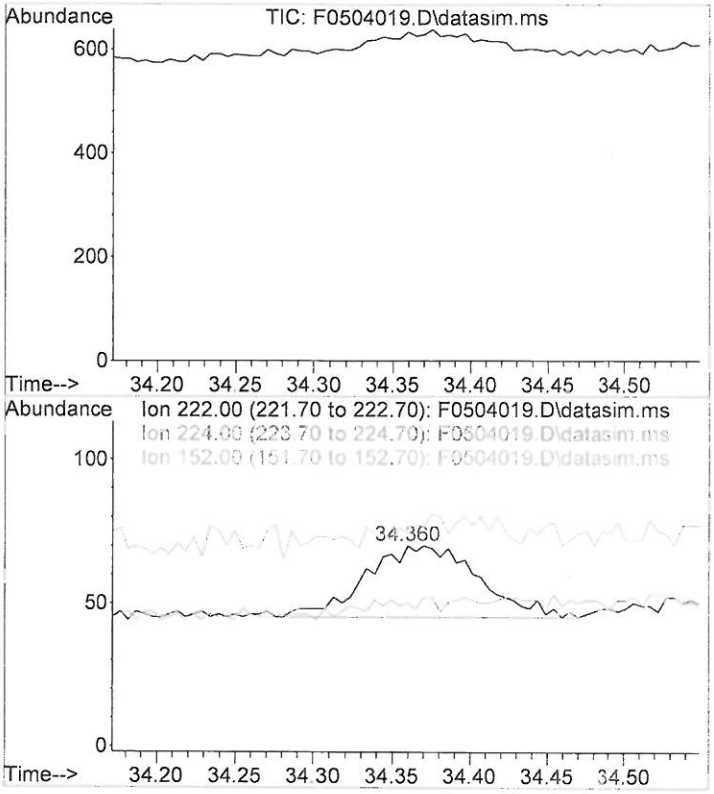
Ion	Ratio	Lower	Upper
188	100		
190	27.3	13.8	53.8
152	104.7	32.8	72.8#



#5
CL2-BZ#4/#10
Concen: 0.26 ng/mL
RT: 30.991 min Scan# 3418
Delta R.T. -0.042 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:222 Resp: 196

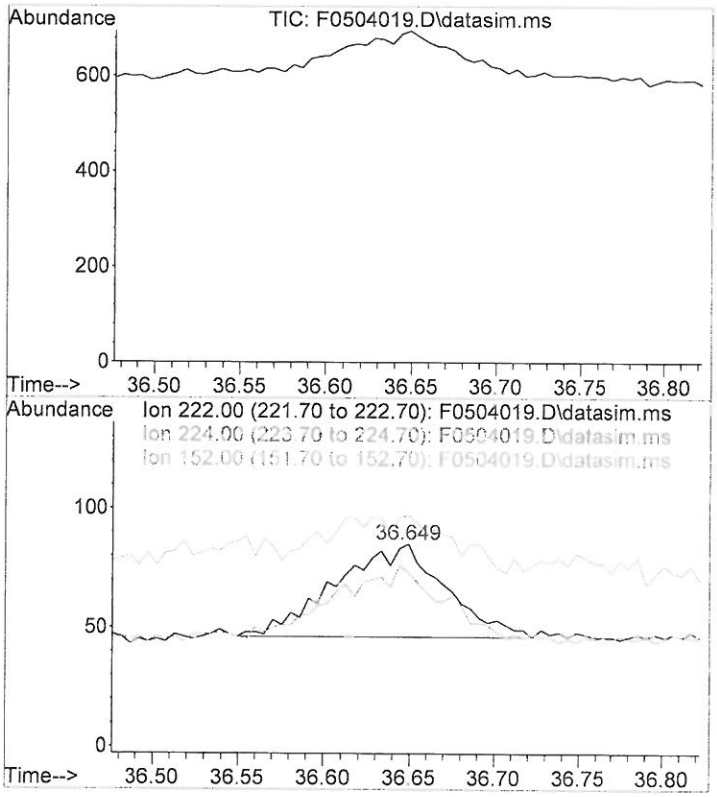
Ion	Ratio	Lower	Upper
222	100		
224	0.0	45.4	85.4#
152	120.9	63.9	103.9#



#7
CL2-BZ#9
Concen: 0.11 ng/mL
RT: 34.360 min Scan# 4061
Delta R.T. -0.016 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:222 Resp: 125

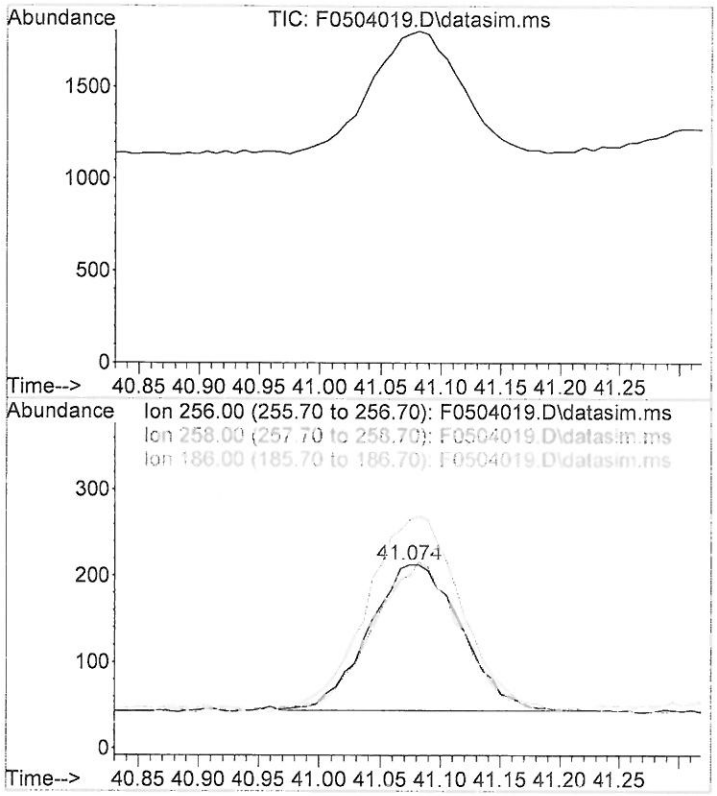
Ion	Ratio	Lower	Upper
222	100		
224	0.0	44.5	84.5#
152	0.0	41.2	81.2#



#11
CL2-BZ#8
Concen: 0.15 ng/mL
RT: 36.649 min Scan# 4498
Delta R.T. 0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:222 Resp: 173

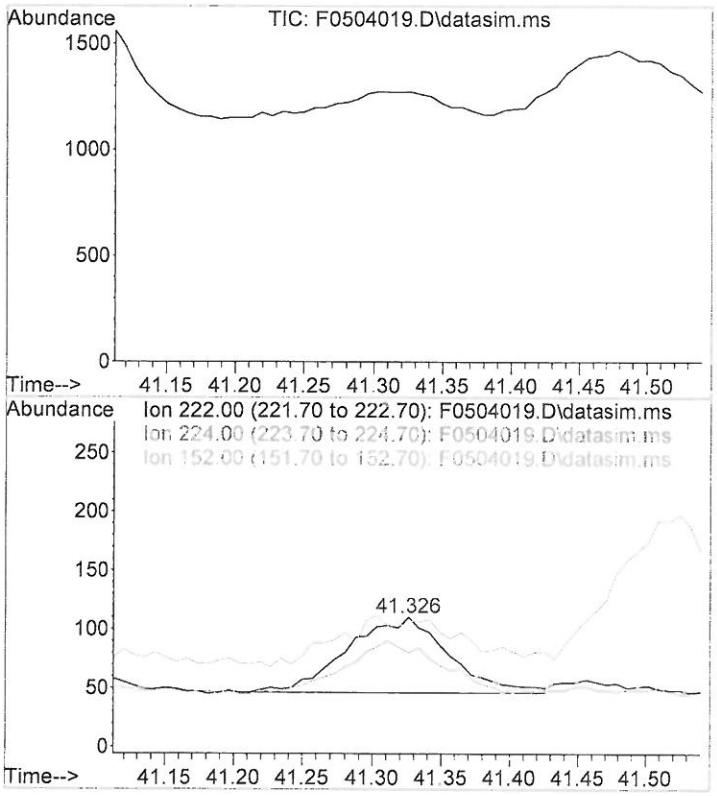
Ion	Ratio	Lower	Upper
222	100		
224	84.4	43.9	83.9#
152	0.0	43.3	83.3#



#15
CL3-BZ#18
Concen: 1.80 ng/mL
RT: 41.074 min Scan# 5291
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:256 Resp: 900

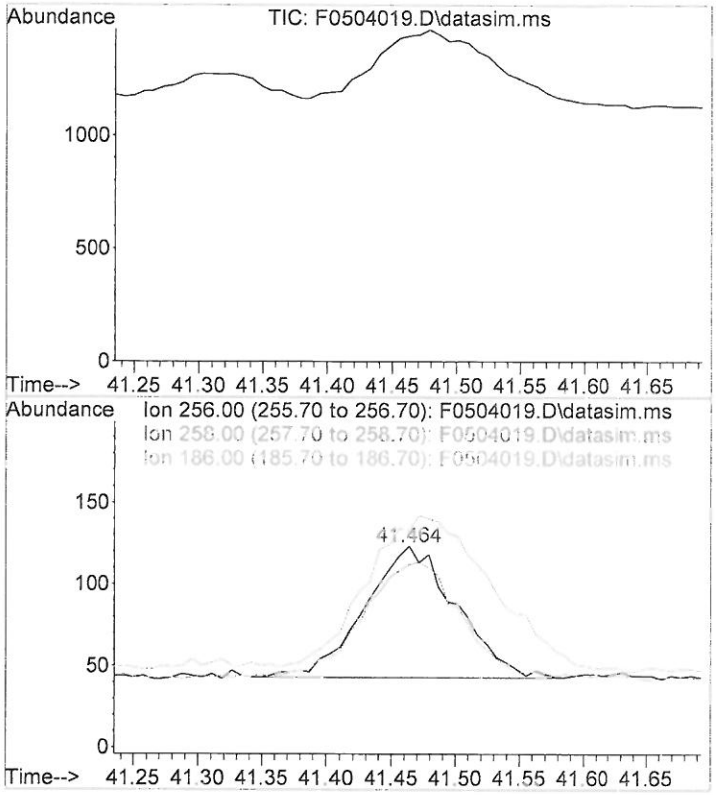
Ion	Ratio	Lower	Upper
256	100		
258	97.7	74.7	114.7
186	132.3	106.5	146.5



#16
CL2-BZ#11
Concen: 0.28 ng/mL
RT: 41.326 min Scan# 5324
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:222 Resp: 326

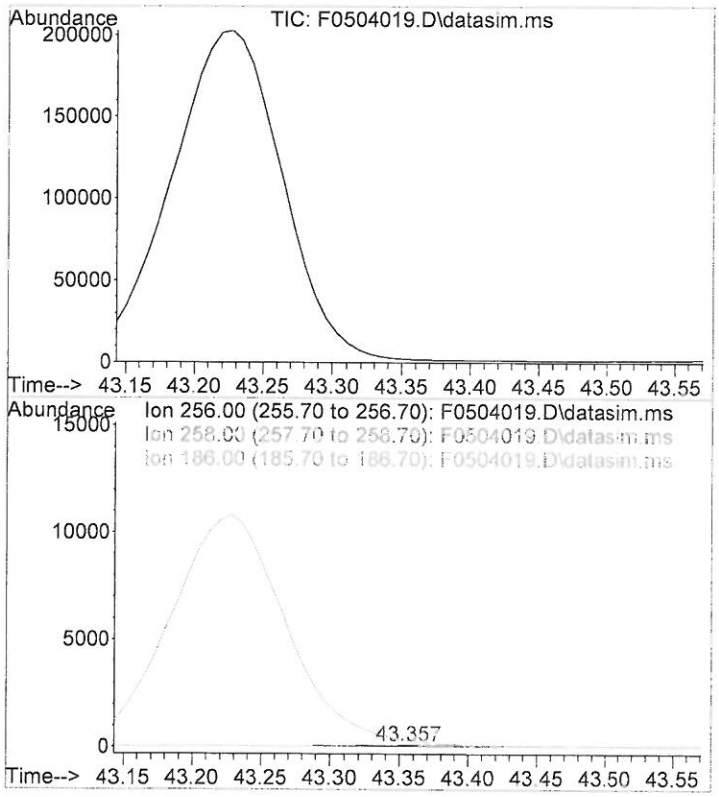
Ion	Ratio	Lower	Upper
222	100		
224	67.2	44.2	84.2
152	36.5	40.5	80.5#



#17
CL3-BZ#17
Concen: 0.70 ng/mL
RT: 41.464 min Scan# 5342
Delta R.T. -0.013 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:256 Resp: 392

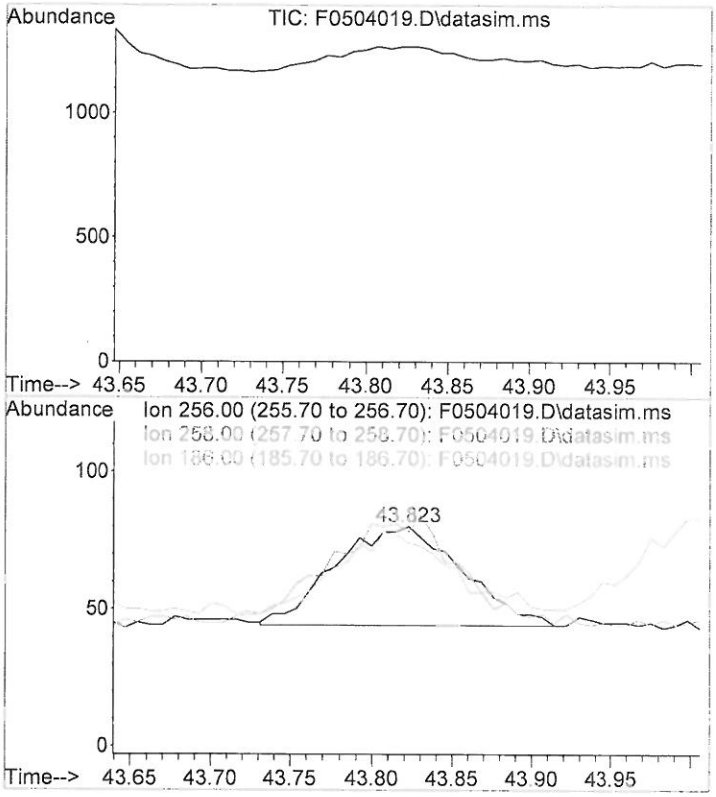
Ion	Ratio	Lower	Upper
256	100		
258	92.9	74.0	114.0
186	156.4	94.6	134.6#



#22
CL3-BZ#16
Concen: 0.52 ng/mL
RT: 43.357 min Scan# 5590
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:256 Resp: 224

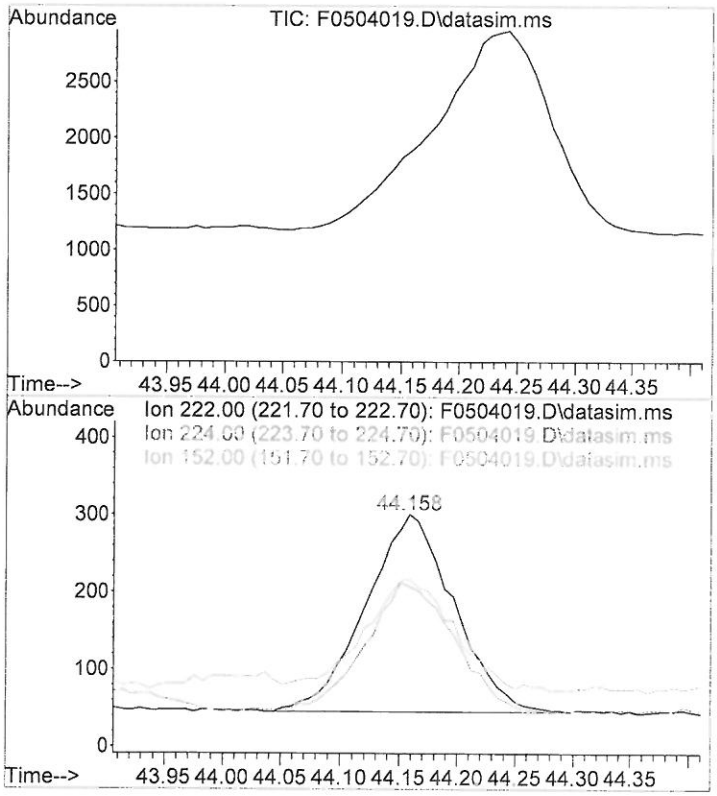
Ion	Ratio	Lower	Upper
256	100		
258	92.0	71.7	111.7
186	0.0	155.4	195.4#



#23
CL3-BZ#32
Concen: 0.22 ng/mL
RT: 43.823 min Scan# 5651
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:256 Resp: 196

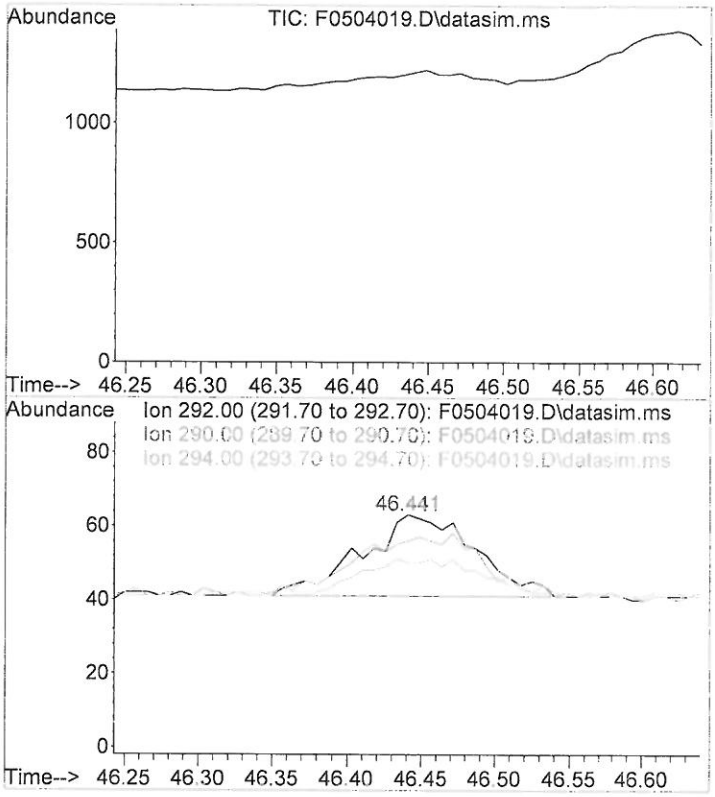
Ion	Ratio	Lower	Upper
256	100		
258	113.3	74.8	114.8
186	77.0	52.6	92.6



#24
CL2-BZ#15
Concen: 1.23 ng/mL
RT: 44.158 min Scan# 5695
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:222 Resp: 1336

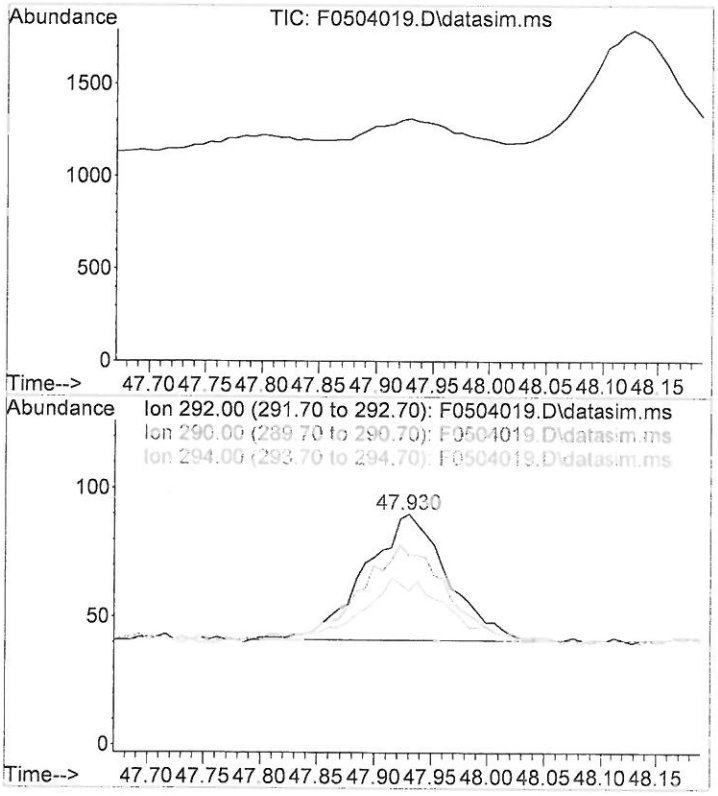
Ion	Ratio	Lower	Upper
222	100		
224	66.9	44.3	84.3
152	55.0	37.4	77.4



#29
CL4-BZ#50
Concen: 0.22 ng/mL
RT: 46.441 min Scan# 5994
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 117

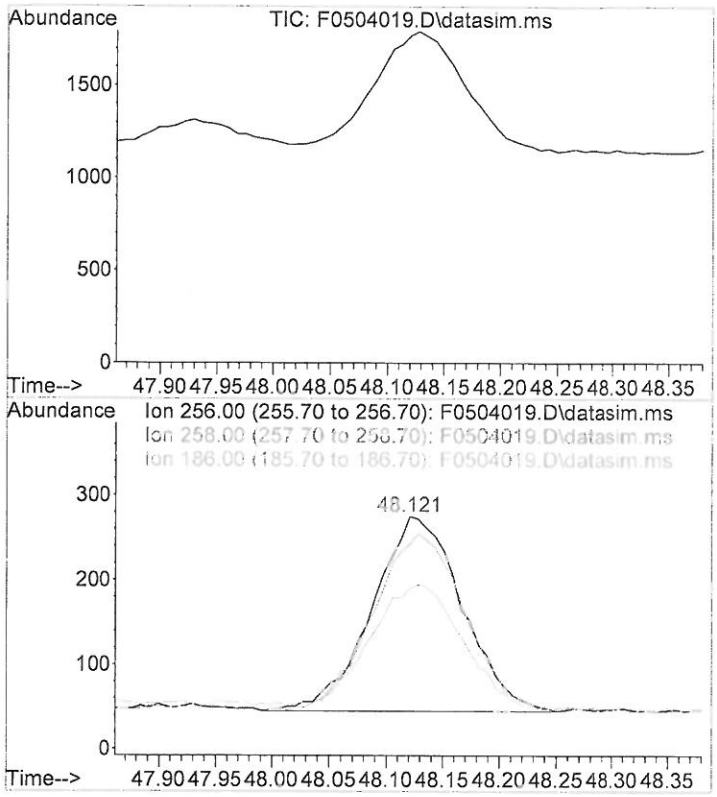
Ion	Ratio	Lower	Upper
292	100		
290	0.0	58.6	98.6#
294	0.0	30.4	70.4#



#32
CL4-BZ#53
Concen: 0.52 ng/mL
RT: 47.930 min Scan# 6189
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 248

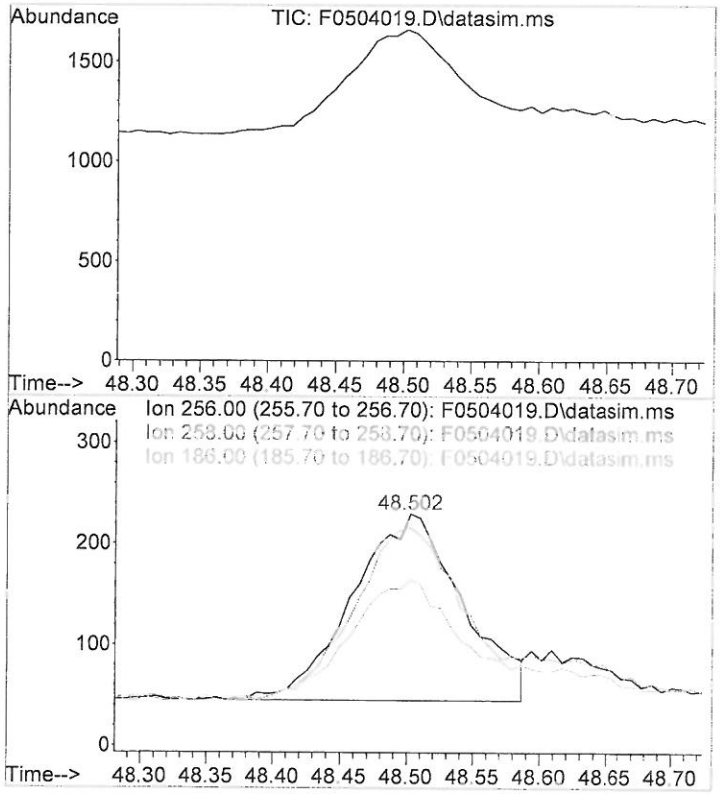
Ion	Ratio	Lower	Upper
292	100		
290	75.8	57.6	97.6
294	53.2	29.4	69.4



#33
CL3-BZ#31
Concen: 1.41 ng/mL
RT: 48.121 min Scan# 6214
Delta R.T. -0.013 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:256 Resp: 1269

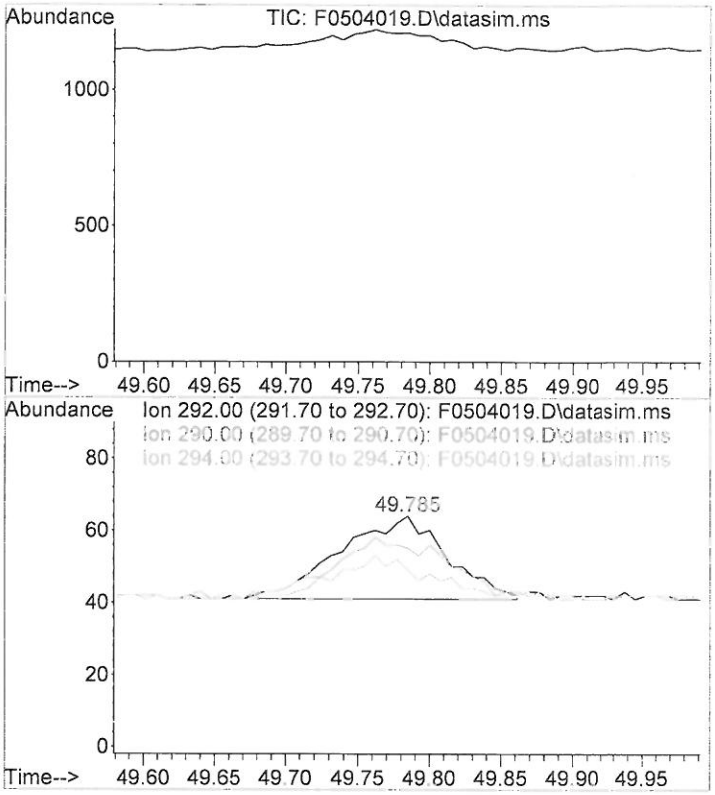
Ion	Ratio	Lower	Upper
256	100		
258	90.5	76.4	116.4
186	64.1	46.5	86.5



#34
CL3-BZ#28
Concen: 1.23 ng/mL
RT: 48.502 min Scan# 6264
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:256 Resp: 1054

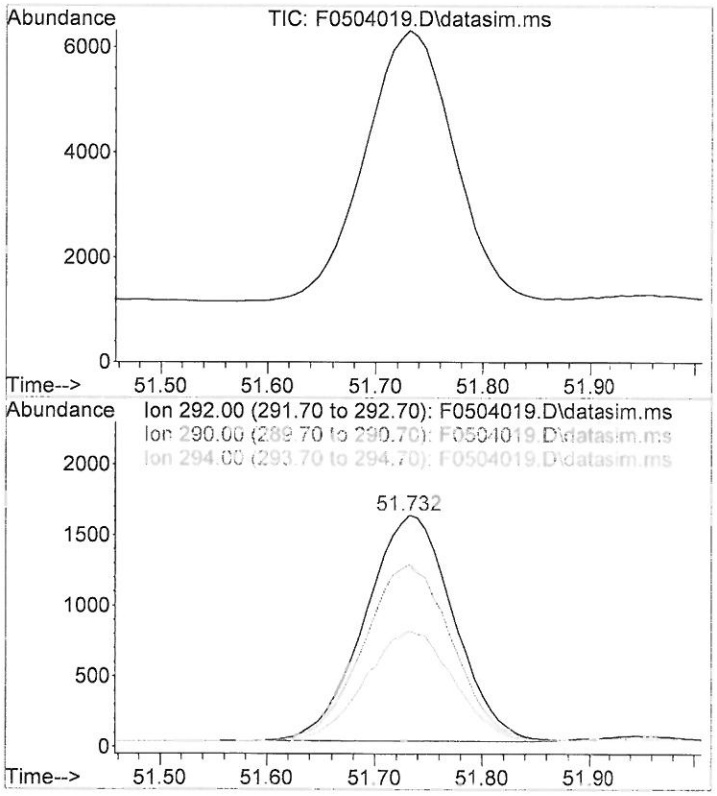
Ion	Ratio	Lower	Upper
256	100		
258	91.7	76.6	116.6
186	67.3	45.9	85.9



#37
CL4-BZ#45
Concen: 0.26 ng/mL
RT: 49.785 min Scan# 6432
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 119

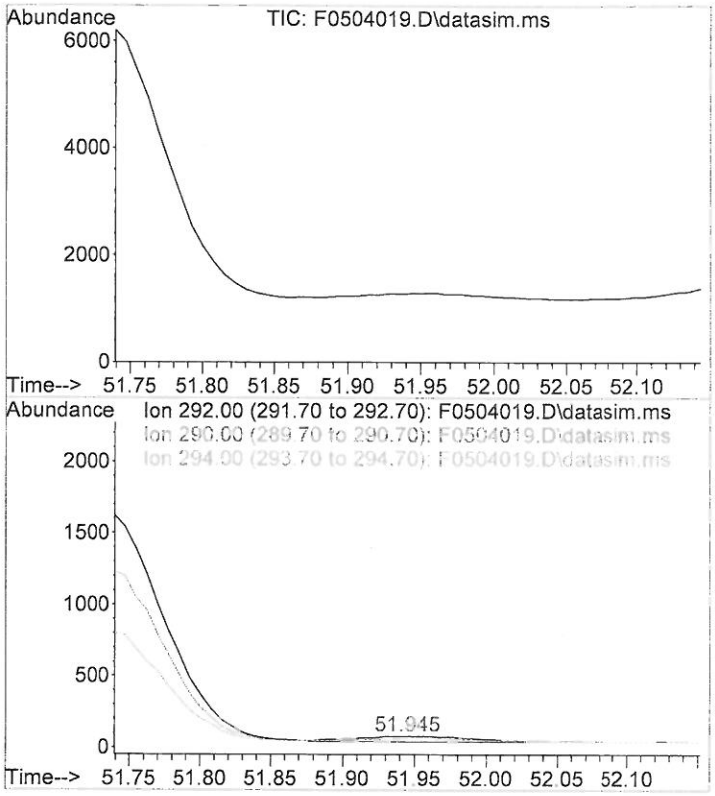
Ion	Ratio	Lower	Upper
292	100		
290	0.0	58.6	98.6#
294	0.0	29.4	69.4#



#44
CL4-BZ#52
Concen: 16.90 ng/mL
RT: 51.732 min Scan# 6687
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 9135

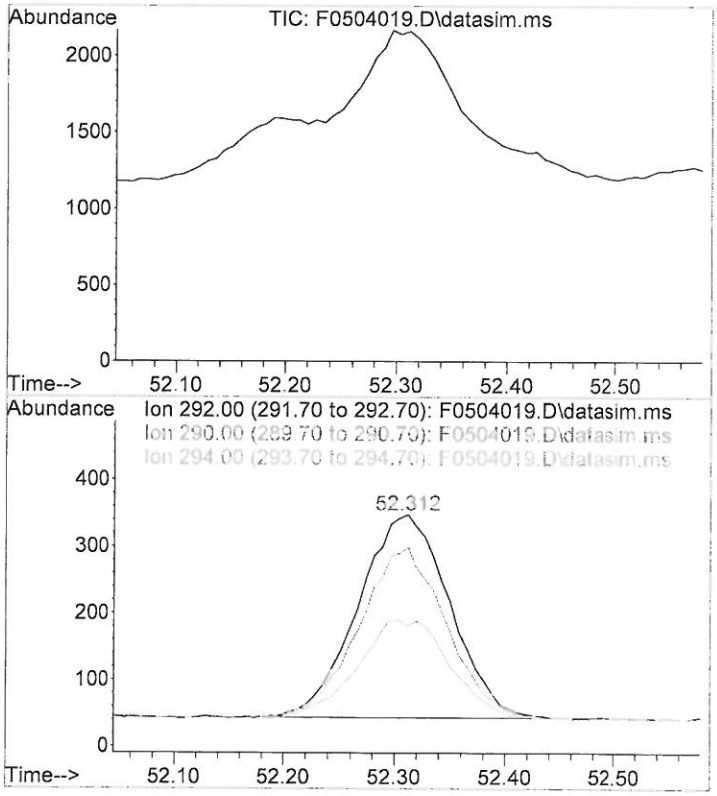
Ion	Ratio	Lower	Upper
292	100		
290	78.0	58.5	98.5
294	48.7	30.1	70.1



#45
CL4-BZ#48
Concen: 0.42 ng/mL
RT: 51.945 min Scan# 6715
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 201

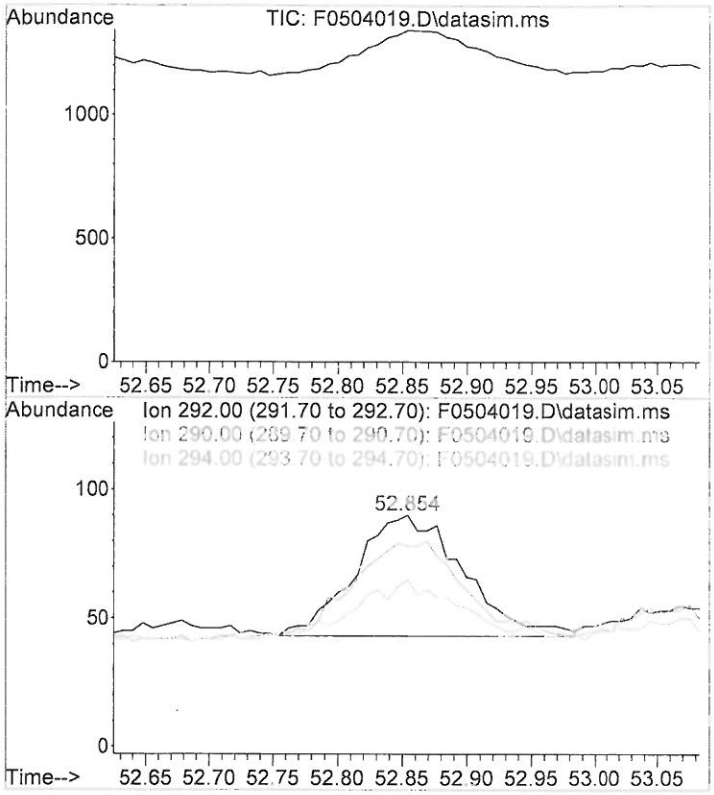
Ion	Ratio	Lower	Upper
292	100		
290	80.6	58.9	98.9
294	0.0	30.2	70.2#



#46
CL4-BZ#49
Concen: 3.09 ng/mL
RT: 52.312 min Scan# 6763
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 1747

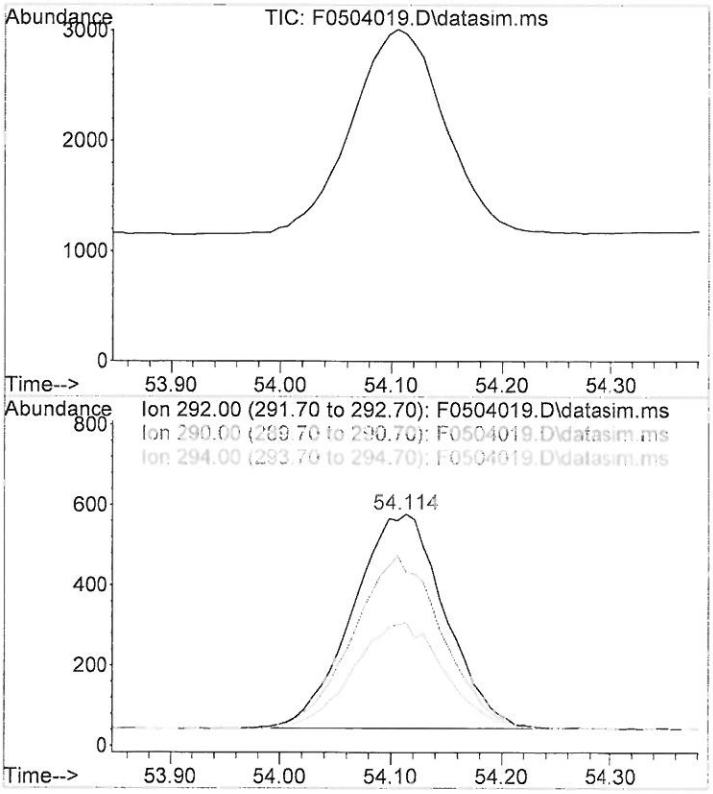
Ion	Ratio	Lower	Upper
292	100		
290	80.1	59.6	99.6
294	49.2	27.9	67.9



#48
CL4-BZ#47/#65/#62
Concen: 0.44 ng/mL
RT: 52.854 min Scan# 6834
Delta R.T. -0.021 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 273

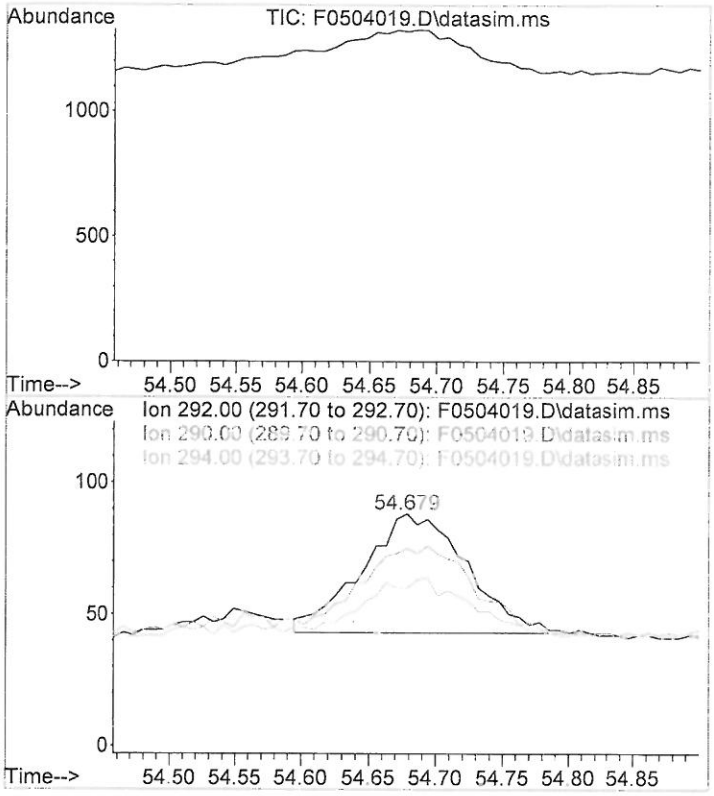
Ion	Ratio	Lower	Upper
292	100		
290	78.8	59.0	99.0
294	45.1	29.1	69.1



#52
CL4-BZ#44
Concen: 7.59 ng/mL
RT: 54.114 min Scan# 6999
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 3087

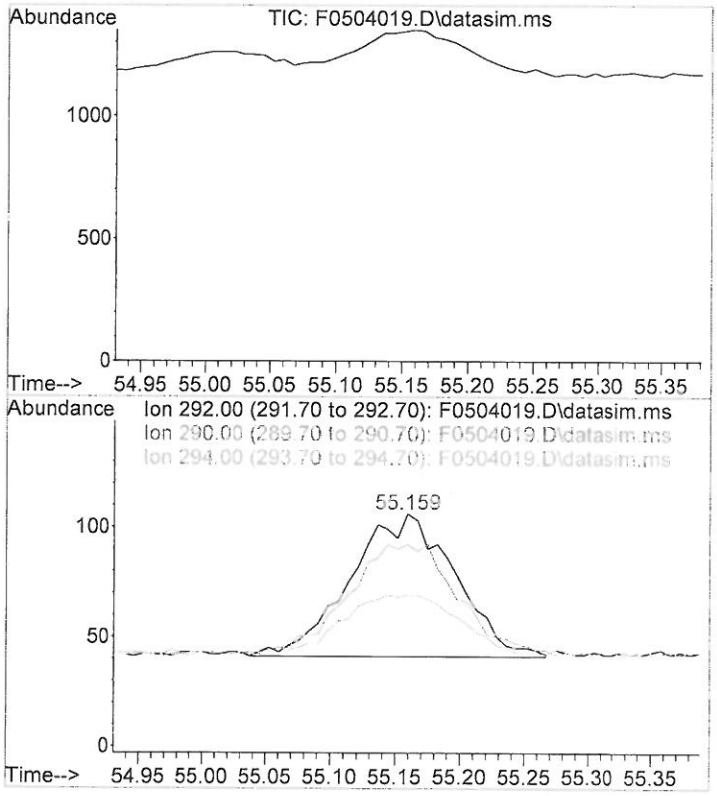
Ion	Ratio	Lower	Upper
292	100		
290	79.1	59.0	99.0
294	49.2	30.6	70.6



#54
CL4-BZ#42
Concen: 0.61 ng/mL
RT: 54.679 min Scan# 7073
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 245

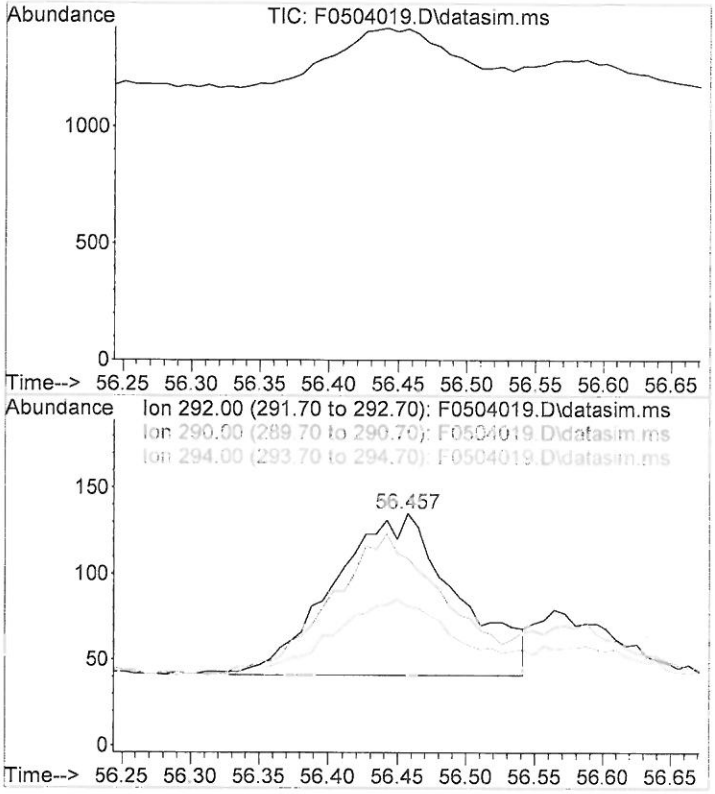
Ion	Ratio	Lower	Upper
292	100		
290	82.4	58.8	98.8
294	48.6	29.4	69.4



#55
CL4-BZ#71
Concen: 0.54 ng/mL
RT: 55.159 min Scan# 7136
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 364

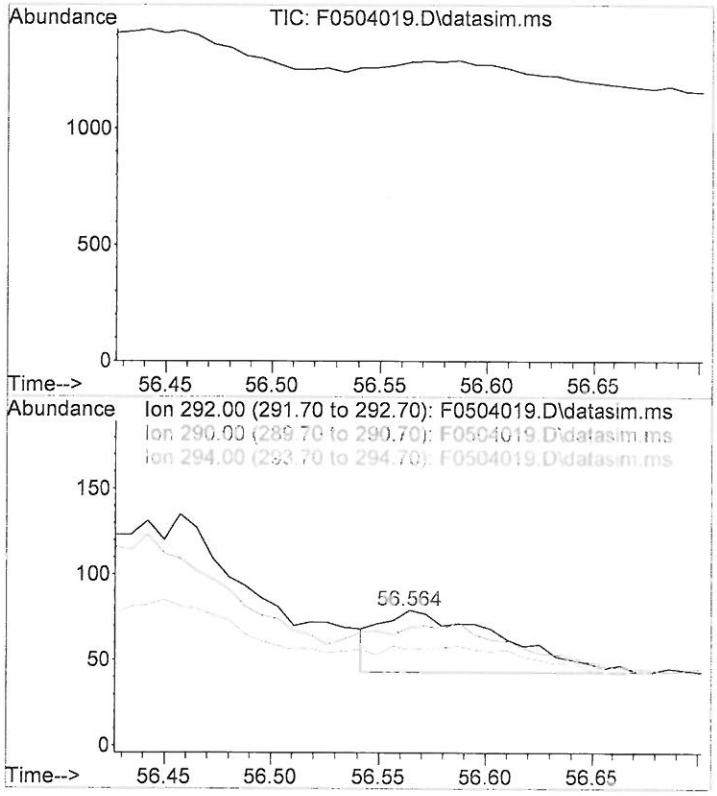
Ion	Ratio	Lower	Upper
292	100		
290	80.8	58.4	98.4
294	45.9	28.3	68.3



#61
CL4-BZ#64
Concen: 0.90 ng/mL m
RT: 56.457 min Scan# 7306
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 583

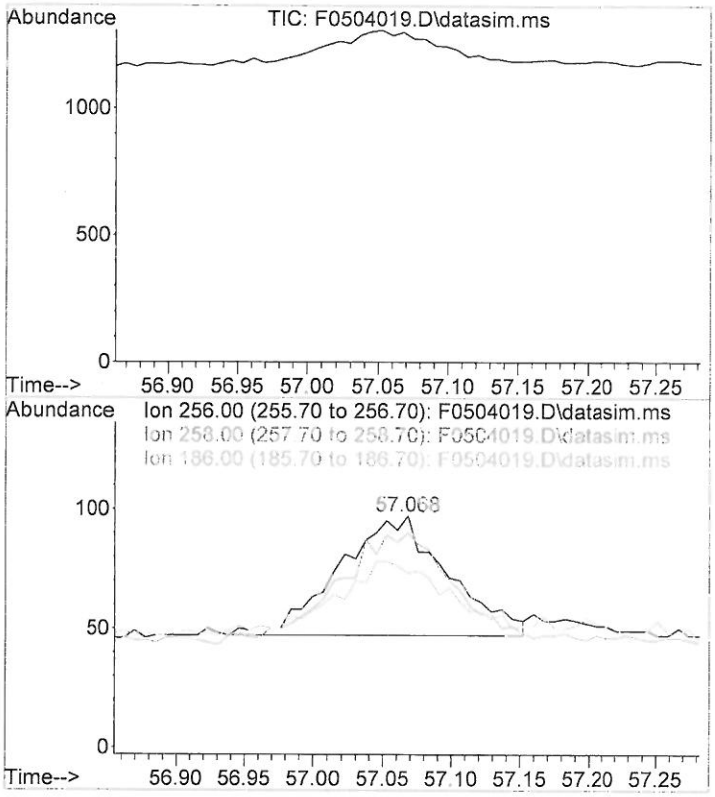
Ion	Ratio	Lower	Upper
292	100		
290	78.0	58.3	98.3
294	46.7	27.8	67.8



#62
CL4-BZ#40/#68
Concen: 0.27 ng/mL
RT: 56.564 min Scan# 7320
Delta R.T. -0.013 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 143

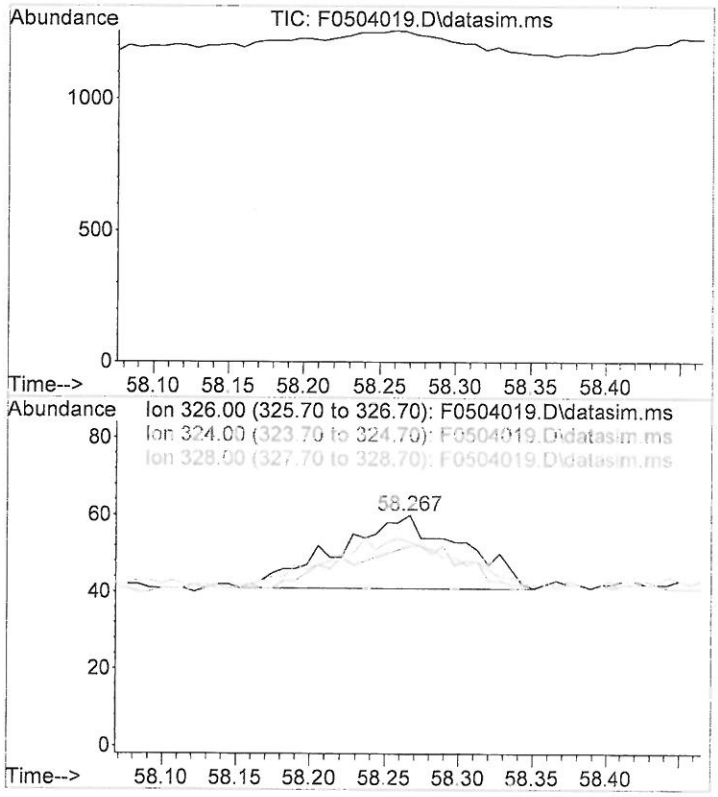
Ion	Ratio	Lower	Upper
292	100		
290	94.4	59.0	99.0
294	0.0	29.4	69.4#



#63
CL3-BZ#37
Concen: 0.36 ng/mL
RT: 57.068 min Scan# 7386
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:256 Resp: 275

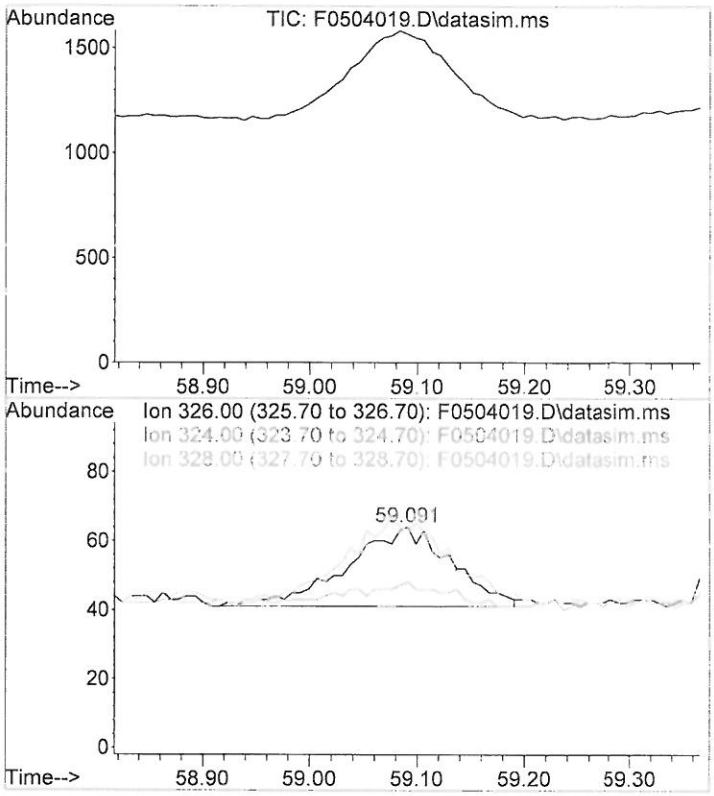
Ion	Ratio	Lower	Upper
256	100		
258	86.9	74.7	114.7
186	51.3	40.6	80.6



#68
CL5-BZ#102
Concen: 0.27 ng/mL
RT: 58.267 min Scan# 7543
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 109

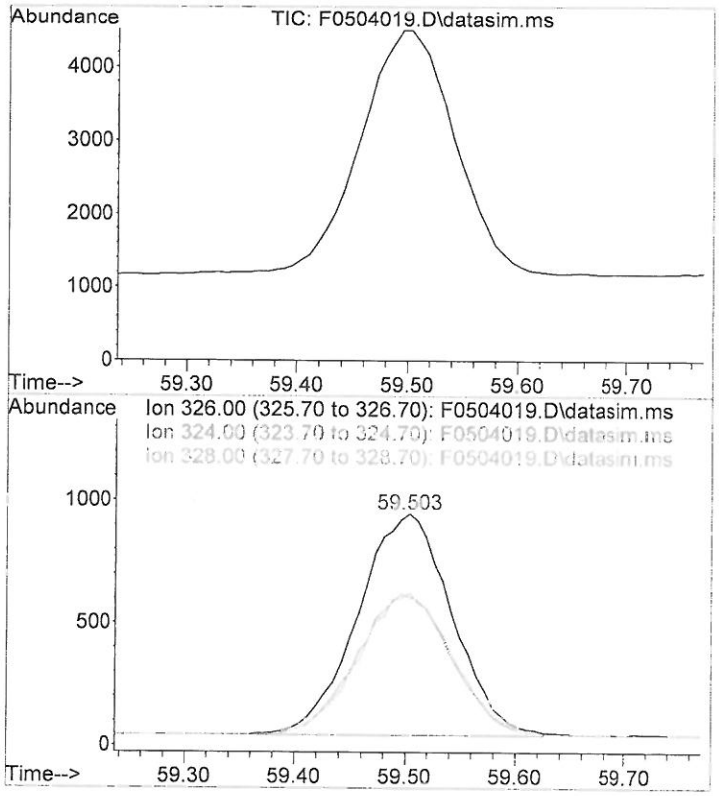
Ion	Ratio	Lower	Upper
326	100		
324	0.0	44.9	84.9#
328	0.0	44.7	84.7#



#71
CL5-BZ#93
Concen: 0.42 ng/mL
RT: 59.091 min Scan# 7651
Delta R.T. 0.033 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 154

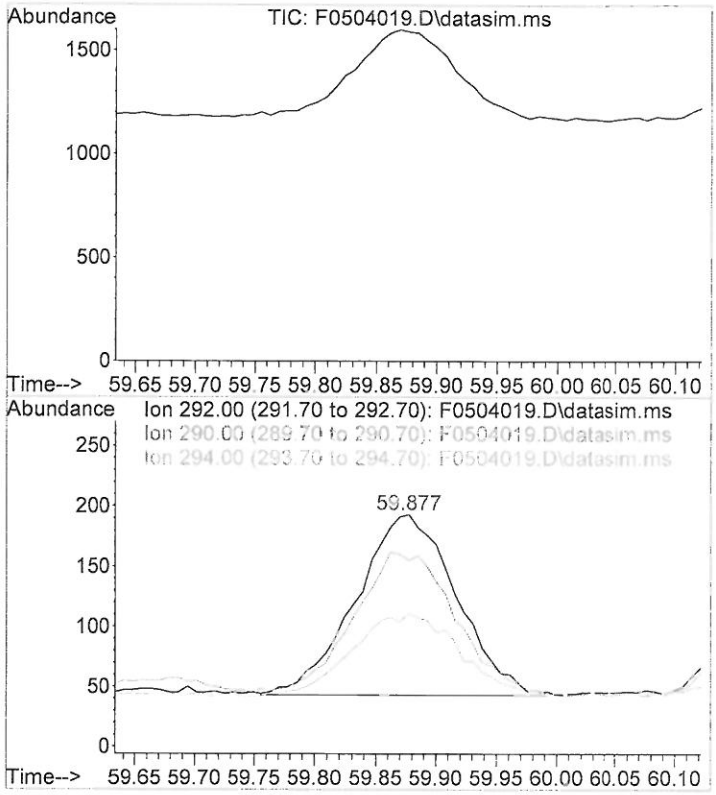
Ion	Ratio	Lower	Upper
326	100		
324	0.0	45.7	85.7#
328	116.2	46.6	86.6#



#74
CL5-BZ#88/#95
Concen: 12.13 ng/mL
RT: 59.503 min Scan# 7705
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 5337

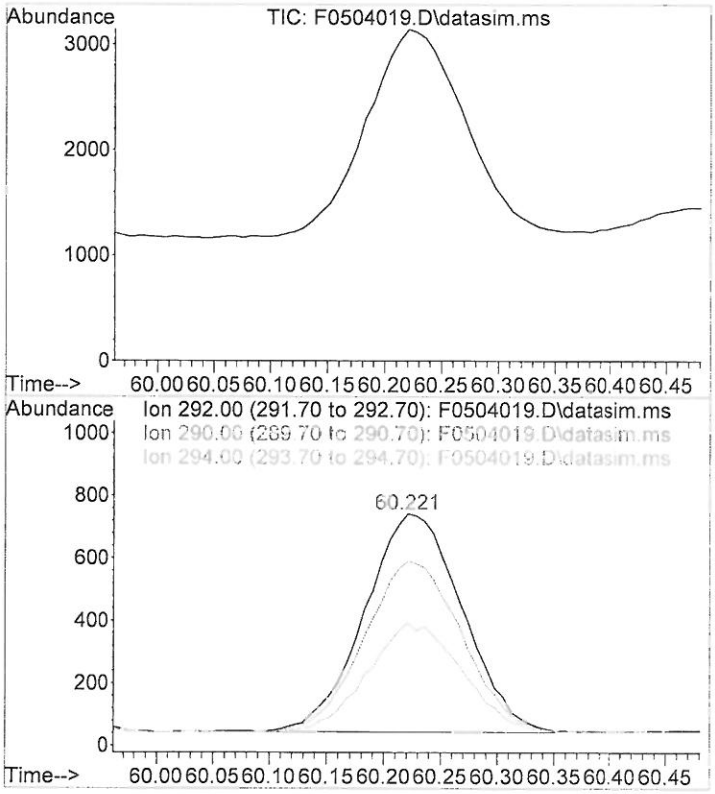
Ion	Ratio	Lower	Upper
326	100		
324	64.2	44.0	84.0
328	64.3	43.4	83.4



#76
CL4-BZ#74
Concen: 1.25 ng/mL
RT: 59.877 min Scan# 7754
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 864

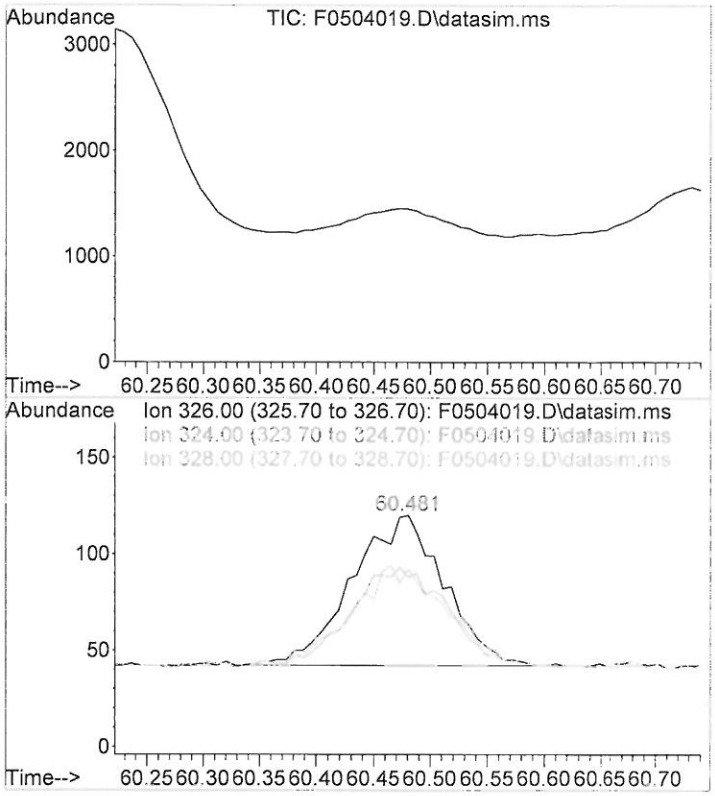
Ion	Ratio	Lower	Upper
292	100		
290	79.3	58.9	98.9
294	48.7	28.6	68.6



#78
CL4-BZ#70
Concen: 5.21 ng/mL
RT: 60.221 min Scan# 7799
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 4158

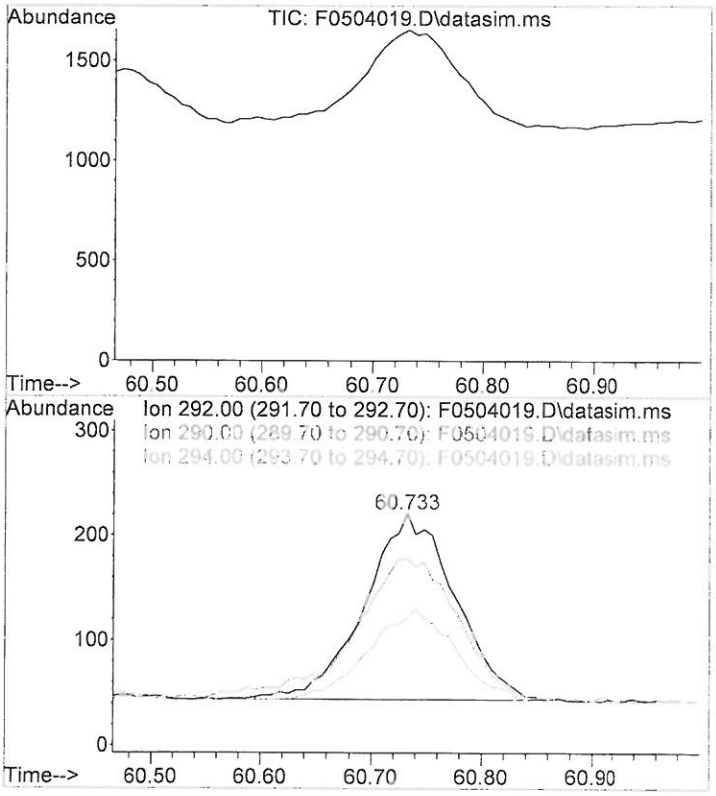
Ion	Ratio	Lower	Upper
292	100		
290	78.6	70.2	110.2
294	48.6	27.2	67.2



#79
CL5-BZ#91
Concen: 1.10 ng/mL
RT: 60.481 min Scan# 7833
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 439

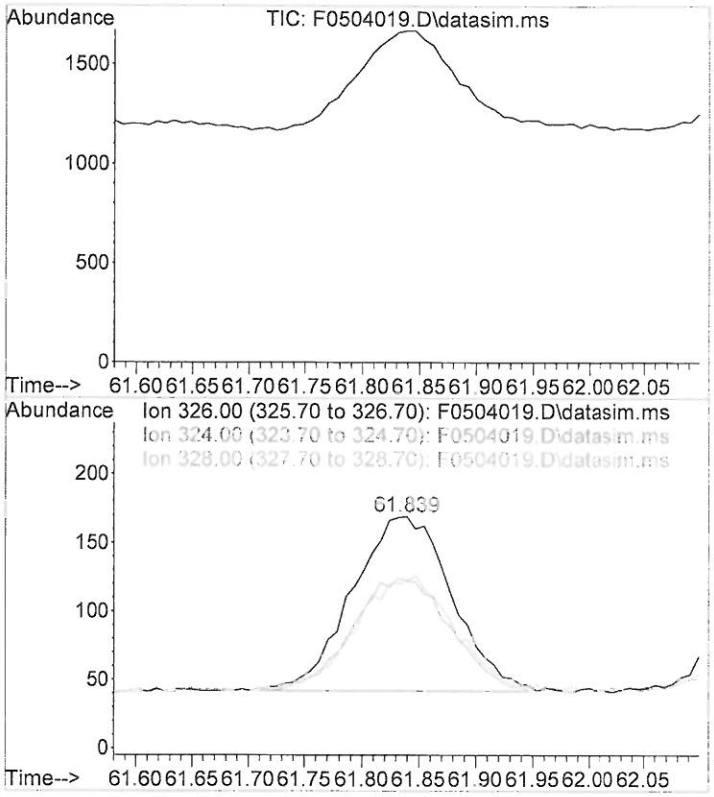
Ion	Ratio	Lower	Upper
326	100		
324	71.5	43.6	83.6
328	63.8	42.3	82.3



#80
CL4-BZ#66
Concen: 1.36 ng/mL
RT: 60.733 min Scan# 7866
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 998

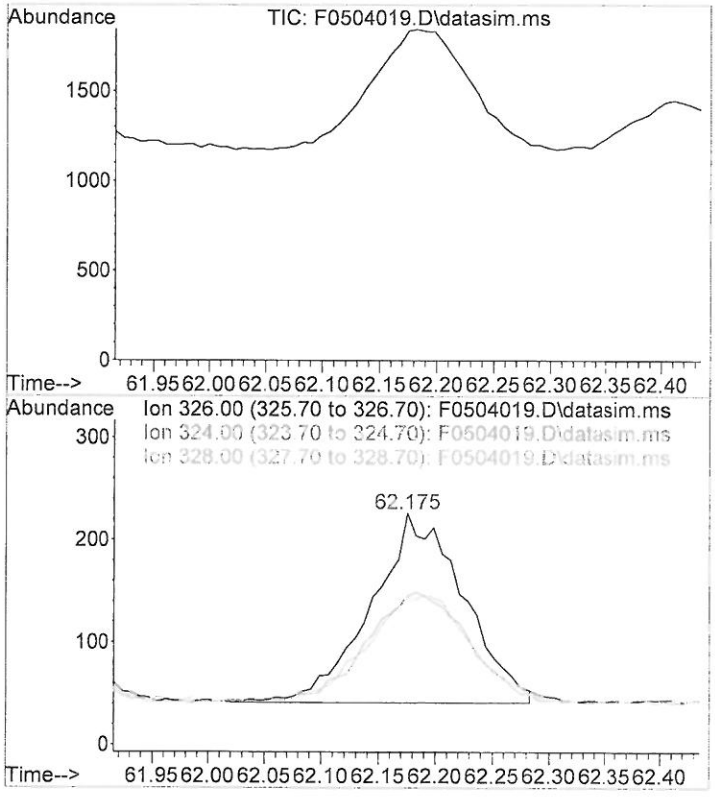
Ion	Ratio	Lower	Upper
292	100		
290	86.5	58.4	98.4
294	47.3	29.1	69.1



#83
CL5-BZ#92
Concen: 1.75 ng/mL
RT: 61.839 min Scan# 8011
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 768

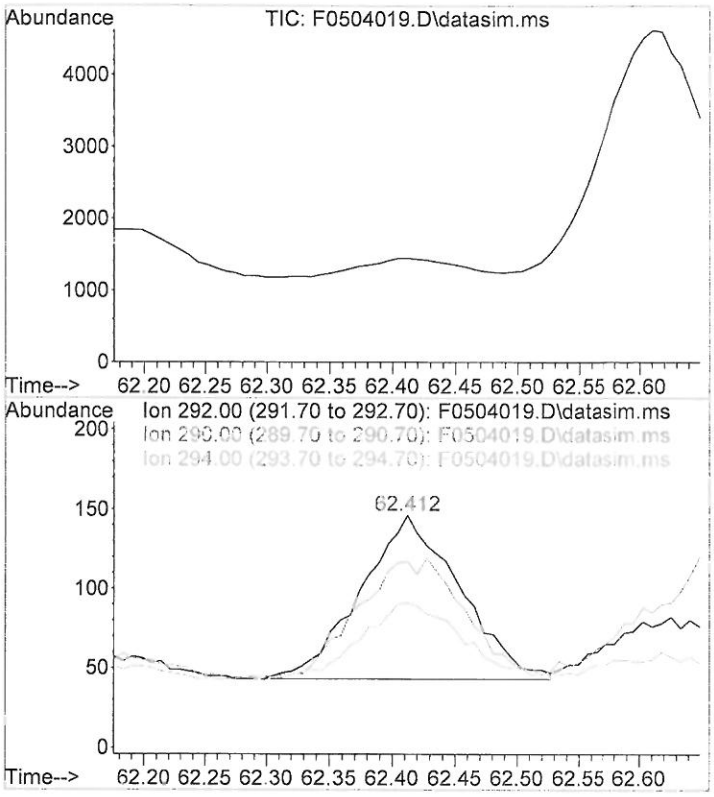
Ion	Ratio	Lower	Upper
326	100		
324	63.0	45.3	85.3
328	64.7	45.4	85.4



#84
CL5-BZ#89/#84
Concen: 2.65 ng/mL
RT: 62.175 min Scan# 8055
Delta R.T. 0.025 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 1034

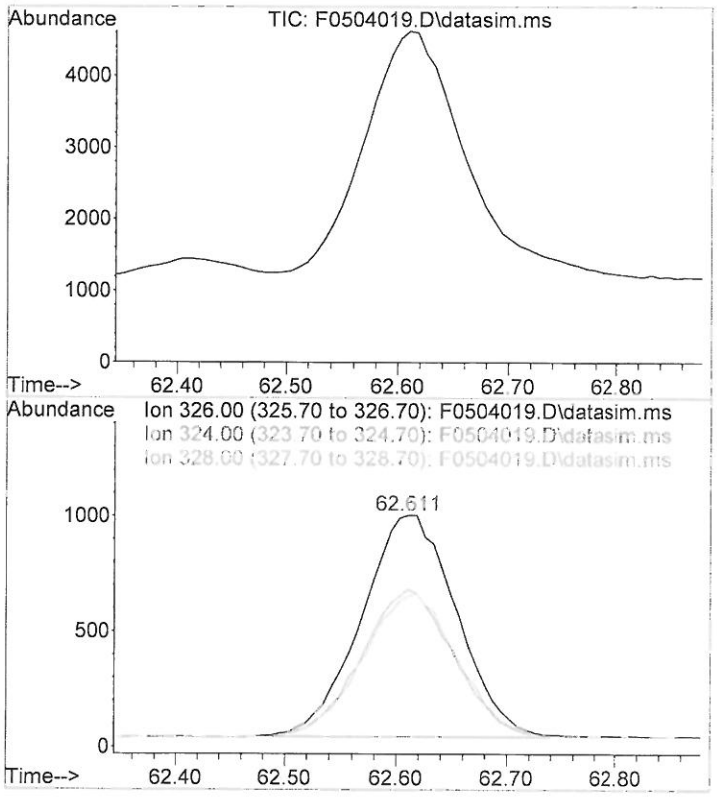
Ion	Ratio	Lower	Upper
326	100		
324	62.5	45.2	85.2
328	61.4	45.1	85.1



#85
CL4-BZ#56
Concen: 0.79 ng/mL
RT: 62.412 min Scan# 8086
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 564

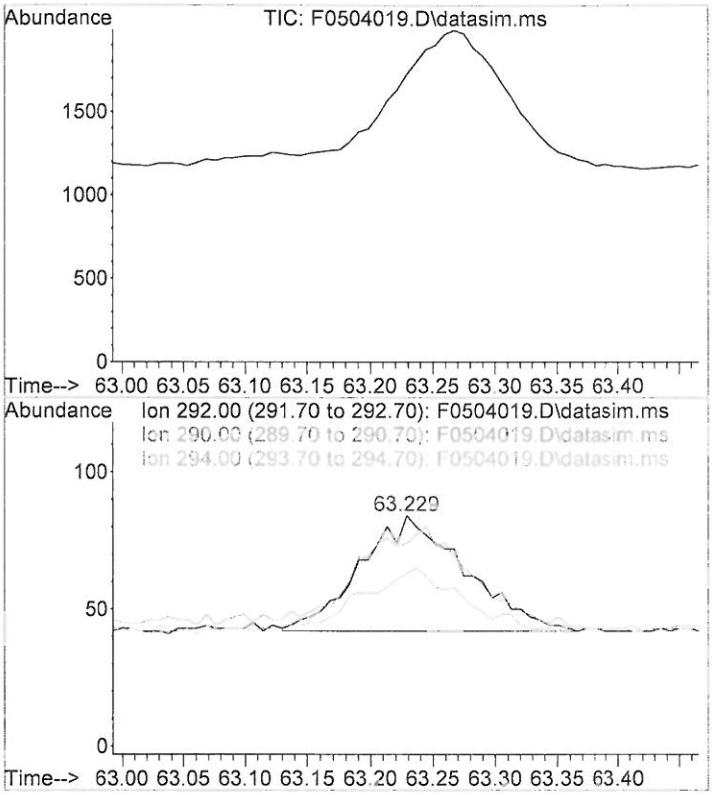
Ion	Ratio	Lower	Upper
292	100		
290	77.3	60.7	100.7
294	50.4	30.4	70.4



#86
CL5-BZ#90/#101
Concen: 12.19 ng/mL
RT: 62.611 min Scan# 8112
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 5718

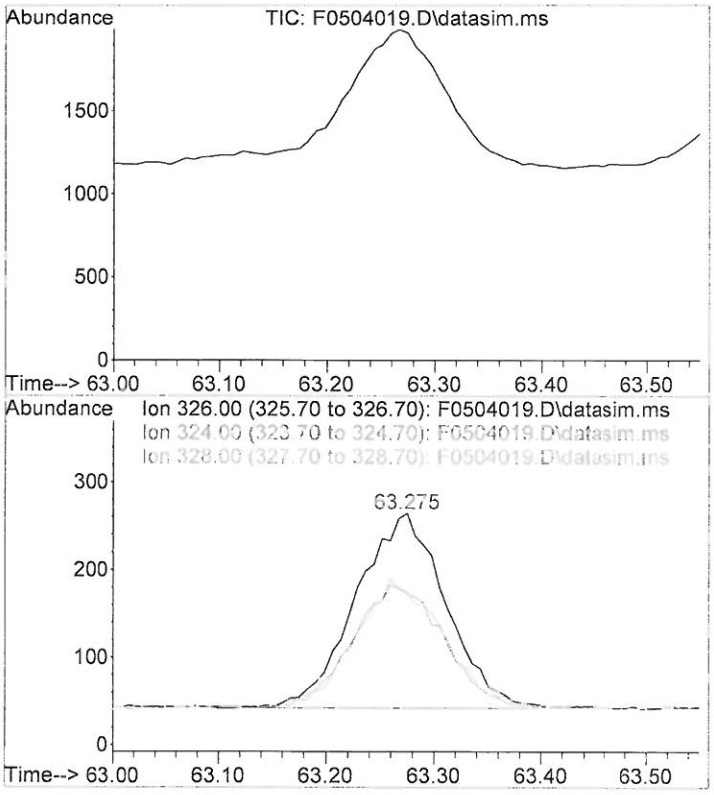
Ion	Ratio	Lower	Upper
326	100		
324	64.7	44.7	84.7
328	64.0	45.9	85.9



#88
CL4-BZ#60
Concen: 0.27 ng/mL
RT: 63.229 min Scan# 8193
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:292 Resp: 244

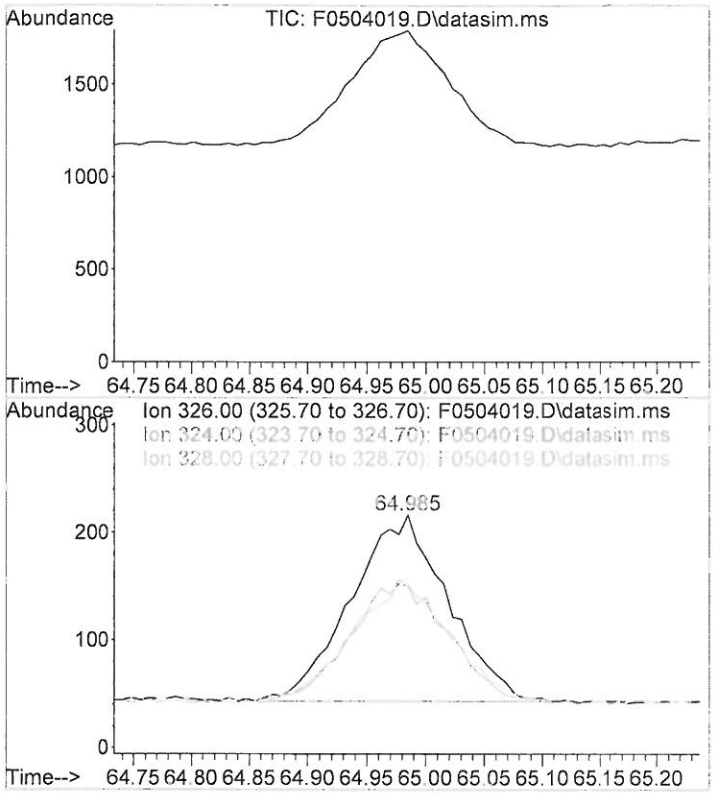
Ion	Ratio	Lower	Upper
292	100		
290	0.0	66.1	106.1#
294	51.6	26.1	66.1



#89
CL5-BZ#99
Concen: 2.52 ng/mL
RT: 63.275 min Scan# 8199
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 1283

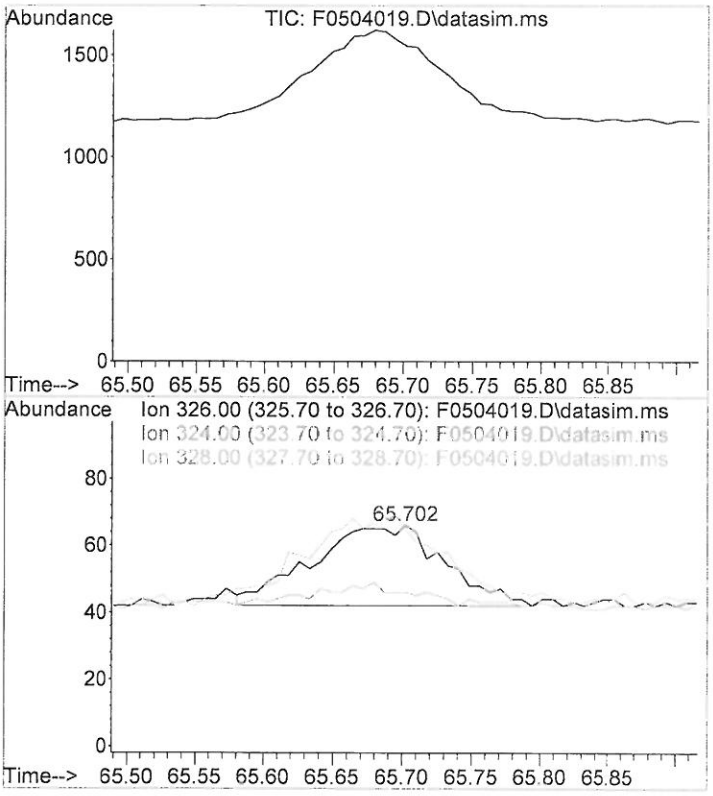
Ion	Ratio	Lower	Upper
326	100		
324	64.3	48.7	88.7
328	64.0	45.6	85.6



#96
CL5-BZ#97
Concen: 2.59 ng/mL
RT: 64.985 min Scan# 3423
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 985

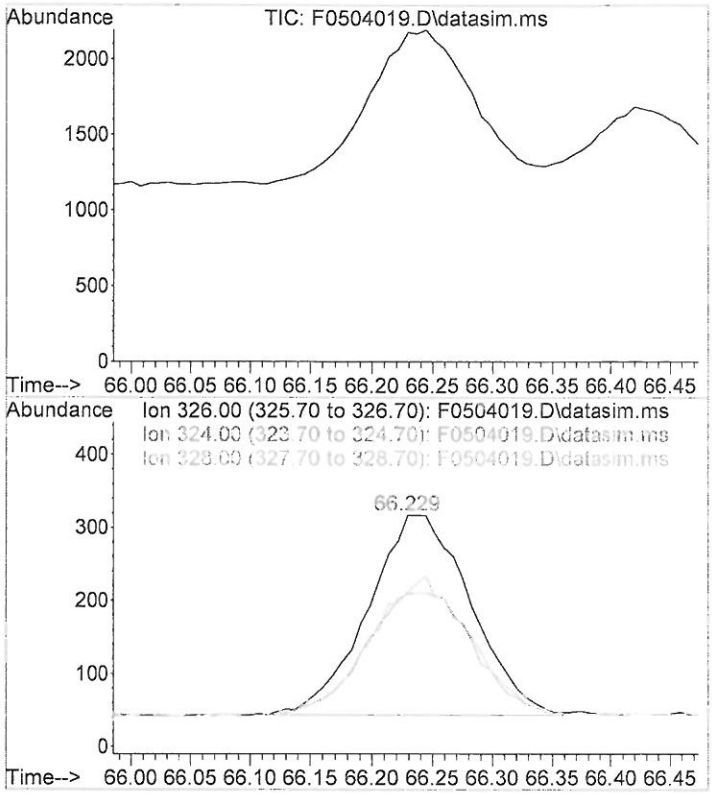
Ion	Ratio	Lower	Upper
326	100		
324	67.2	43.4	83.4
328	65.4	43.5	83.5



#99
CL5-BZ#116
Concen: 0.27 ng/mL
RT: 65.702 min Scan# 8517
Delta R.T. 0.018 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 157

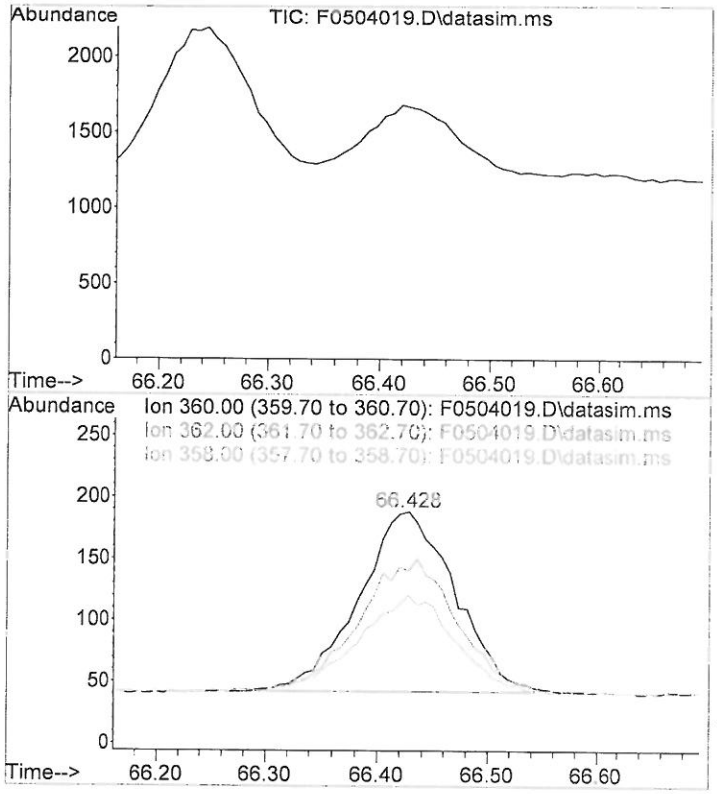
Ion	Ratio	Lower	Upper
326	100		
324	0.0	44.6	84.6#
328	0.0	46.0	86.0#



#100
CL5-BZ#87
Concen: 3.70 ng/mL
RT: 66.229 min Scan# 8586
Delta R.T. -0.020 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 1613

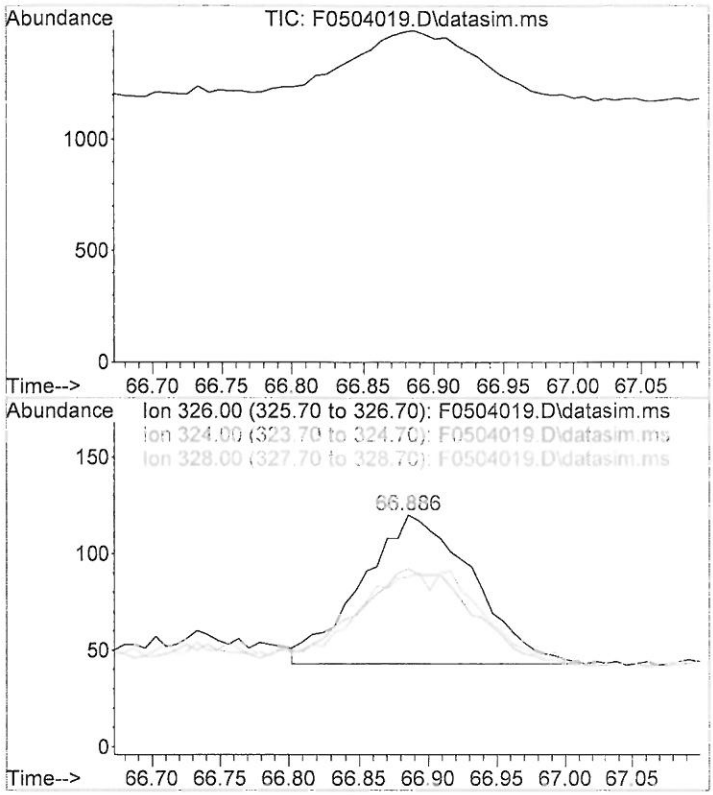
Ion	Ratio	Lower	Upper
326	100		
324	64.3	43.5	83.5
328	66.6	45.7	85.7



#102
CL6-BZ#154/#136
Concen: 1.92 ng/mL
RT: 66.428 min Scan# 8612
Delta R.T. 0.018 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 876

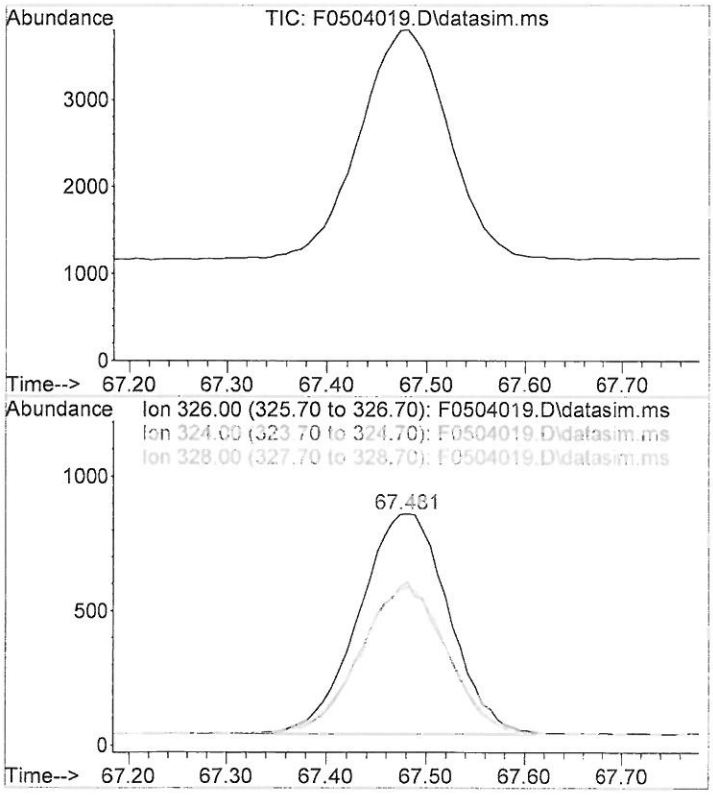
Ion	Ratio	Lower	Upper
360	100		
362	75.8	57.8	97.8
358	51.5	33.8	73.8



#104
CL5-BZ#85
Concen: 0.97 ng/mL
RT: 66.886 min Scan# 8672
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 430

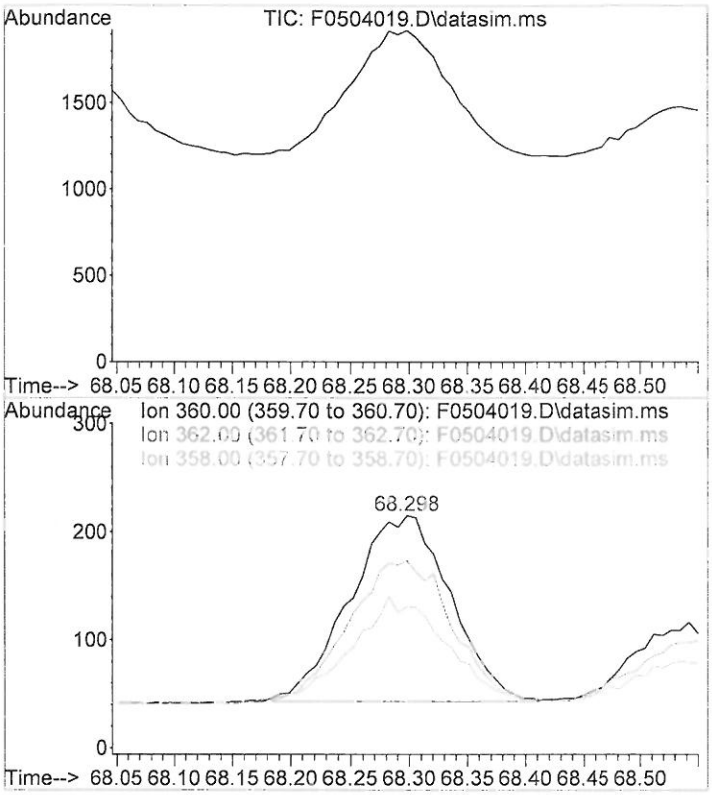
Ion	Ratio	Lower	Upper
326	100		
324	70.7	45.6	85.6
328	34.7	45.6	85.6#



#105
CL5-BZ#120/#110
Concen: 8.23 ng/mL
RT: 67.481 min Scan# 8750
Delta R.T. 0.086 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 5124

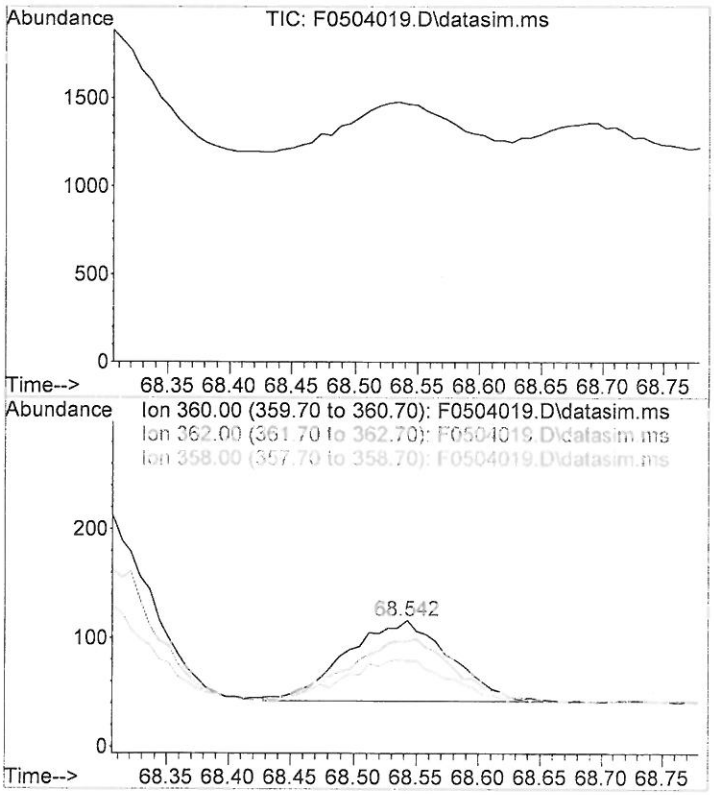
Ion	Ratio	Lower	Upper
326	100		
324	64.6	45.5	85.5
328	65.0	45.3	85.3



#107
CL6-BZ#151
Concen: 2.92 ng/mL
RT: 68.298 min Scan# 8857
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 1021

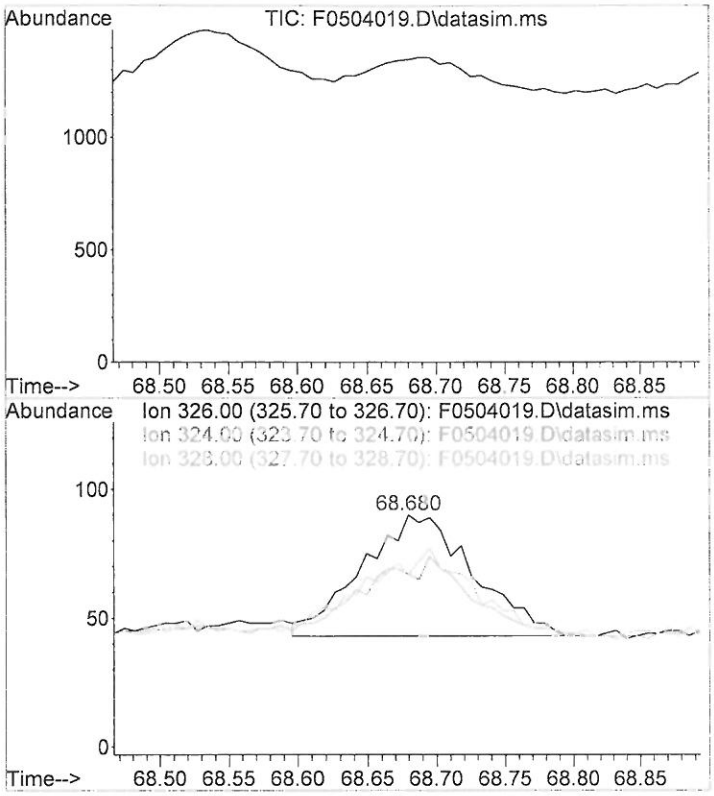
Ion	Ratio	Lower	Upper
360	100		
362	79.7	55.7	95.7
358	53.3	34.8	74.8



#108
CL6-BZ#135
Concen: 1.36 ng/mL
RT: 68.542 min Scan# 8889
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 423

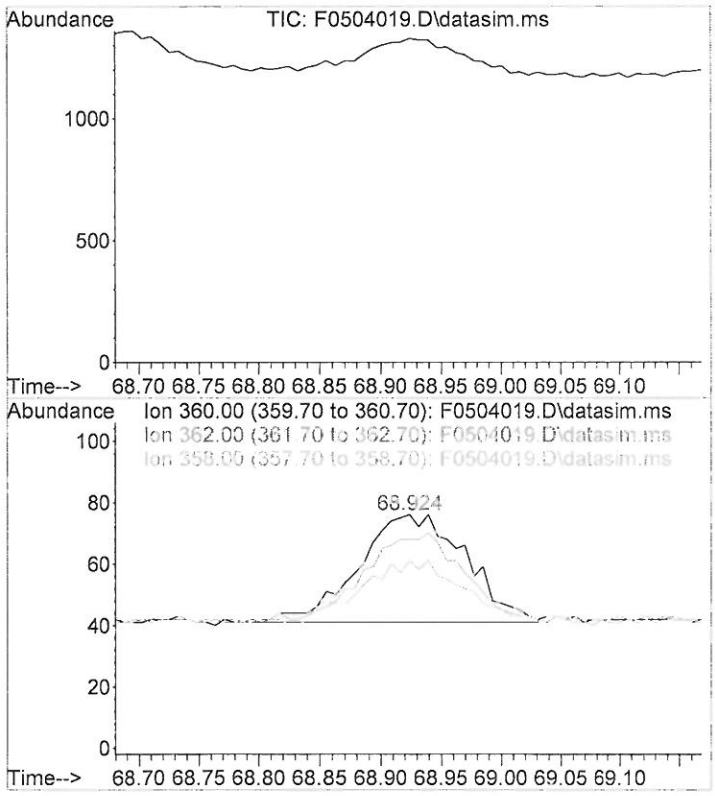
Ion	Ratio	Lower	Upper
360	100		
362	81.6	58.4	98.4
358	51.8	35.8	75.8



#109
CL5-BZ#82
Concen: 0.74 ng/mL
RT: 68.680 min Scan# 8907
Delta R.T. -0.013 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 263

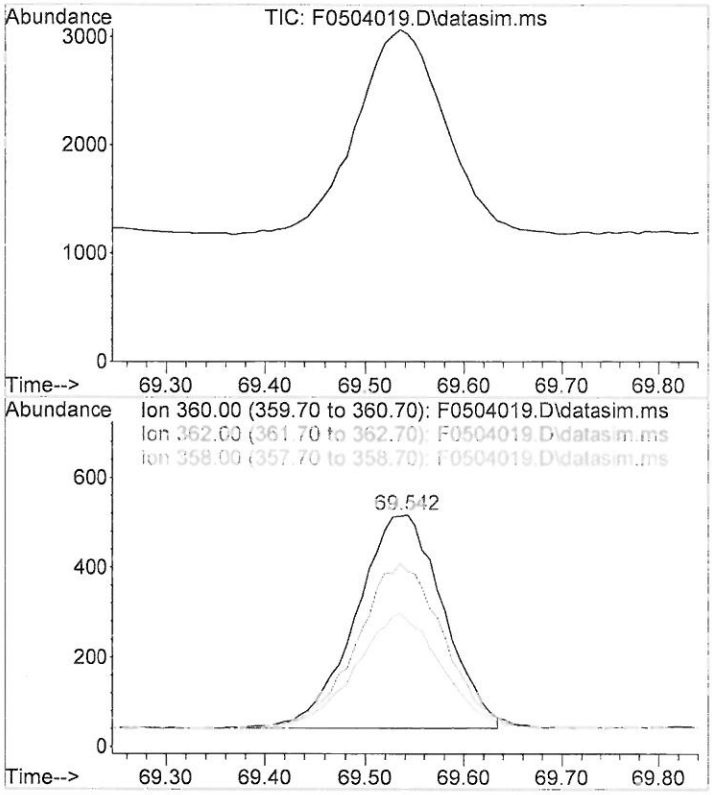
Ion	Ratio	Lower	Upper
326	100		
324	0.0	44.8	84.8#
328	68.1	44.2	84.2



#110
CL6-BZ#144
Concen: 0.60 ng/mL
RT: 68.924 min Scan# 8939
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 216

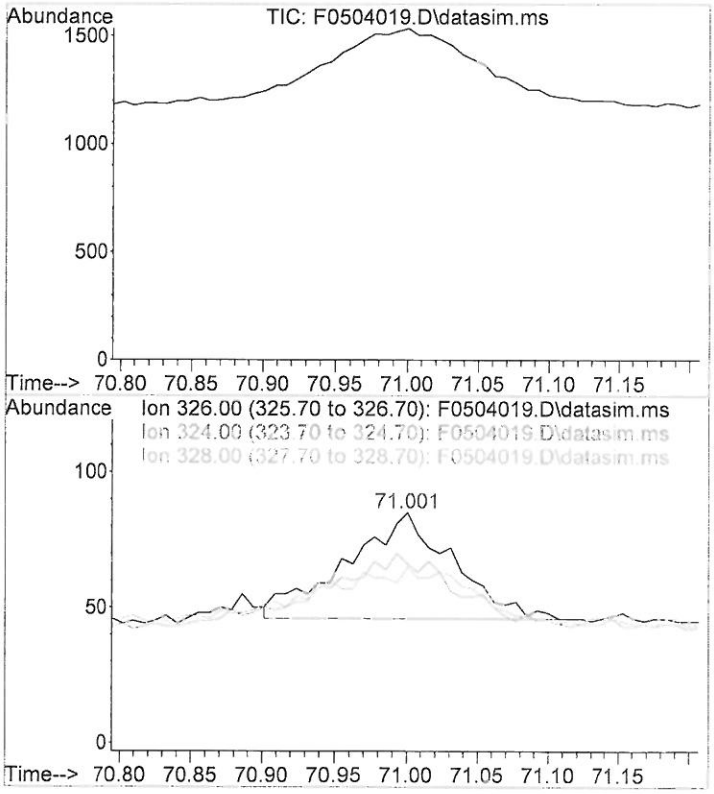
Ion	Ratio	Lower	Upper
360	100		
362	75.9	58.4	98.4
358	56.9	34.5	74.5



#111
CL6-BZ#147/#149
Concen: 8.17 ng/mL
RT: 69.542 min Scan# 9020
Delta R.T. 0.033 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 2910

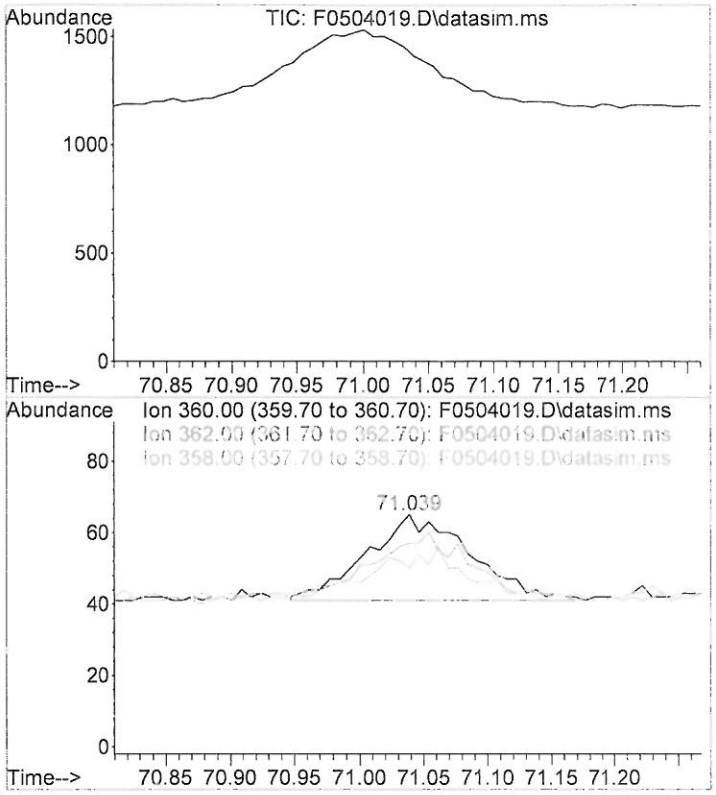
Ion	Ratio	Lower	Upper
360	100		
362	76.0	56.7	96.7
358	52.6	31.4	71.4



#117
CL5-BZ#123/#107
Concen: 0.29 ng/mL
RT: 71.001 min Scan# 9211
Delta R.T. 0.018 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 200

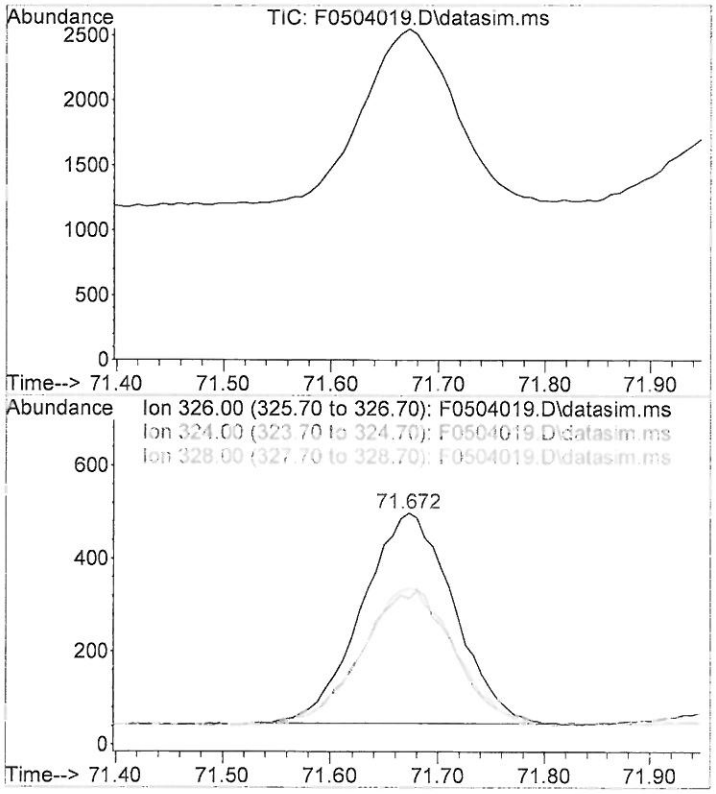
Ion	Ratio	Lower	Upper
326	100		
324	83.0	61.8	101.8
328	0.0	36.9	76.9#



#119
CL6-BZ#134
Concen: 0.51 ng/mL
RT: 71.039 min Scan# 9216
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 134

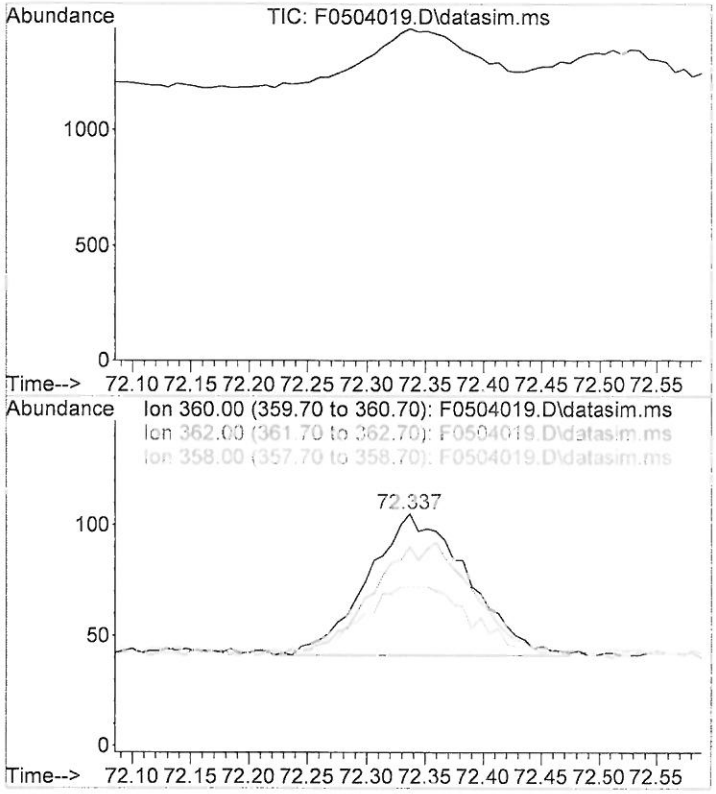
Ion	Ratio	Lower	Upper
360	100		
362	74.6	54.9	94.9
358	0.0	35.3	75.3#



#123
CL5-BZ#118
Concen: 4.84 ng/mL
RT: 71.672 min Scan# 9299
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 2676

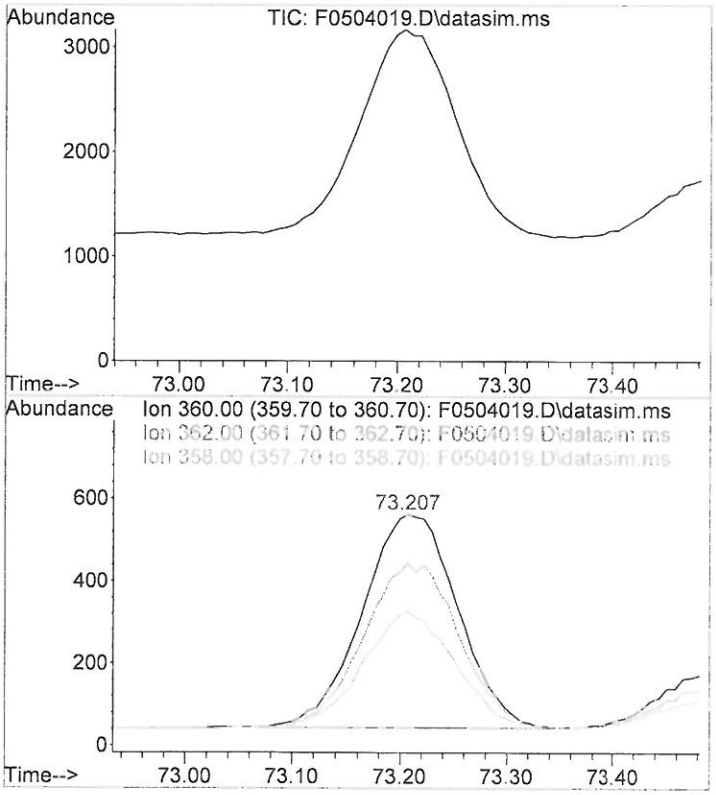
Ion	Ratio	Lower	Upper
326	100		
324	64.3	44.7	84.7
328	64.4	44.3	84.3



#126
CL6-BZ#146
Concen: 1.02 ng/mL
RT: 72.337 min Scan# 9386
Delta R.T. -0.013 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 379

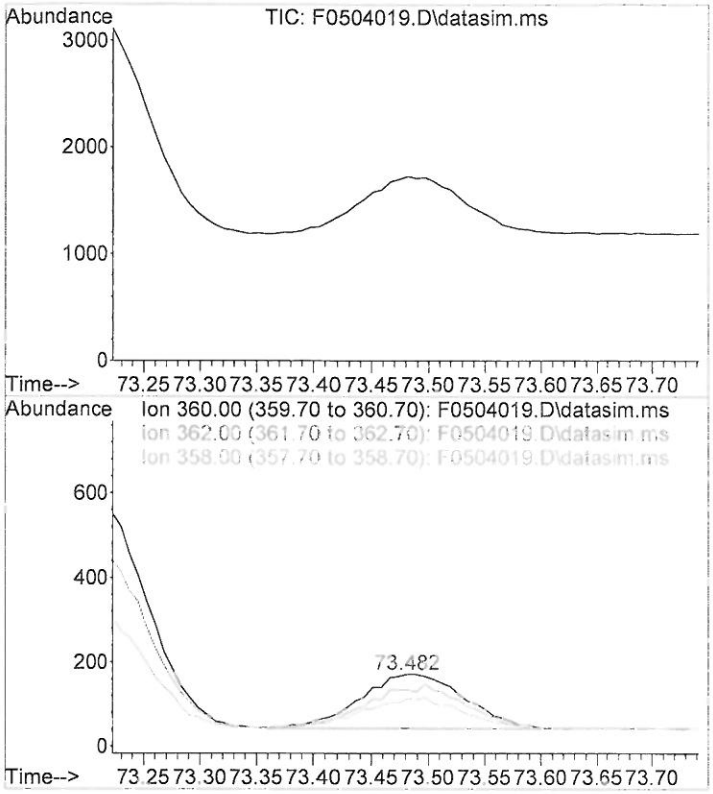
Ion	Ratio	Lower	Upper
360	100		
362	80.7	57.6	97.6
358	50.9	31.9	71.9



#131
CL6-BZ#153
Concen: 8.11 ng/mL
RT: 73.207 min Scan# 9500
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 3212

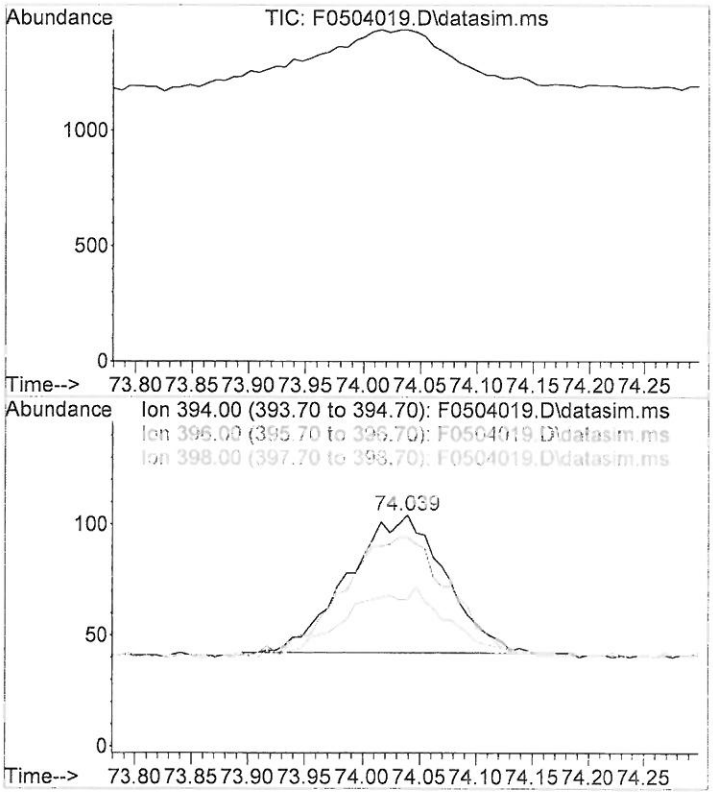
Ion	Ratio	Lower	Upper
360	100		
362	76.7	58.3	98.3
358	52.0	32.7	72.7



#132
CL6-BZ#132
Concen: 2.89 ng/mL
RT: 73.482 min Scan# 9536
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 822

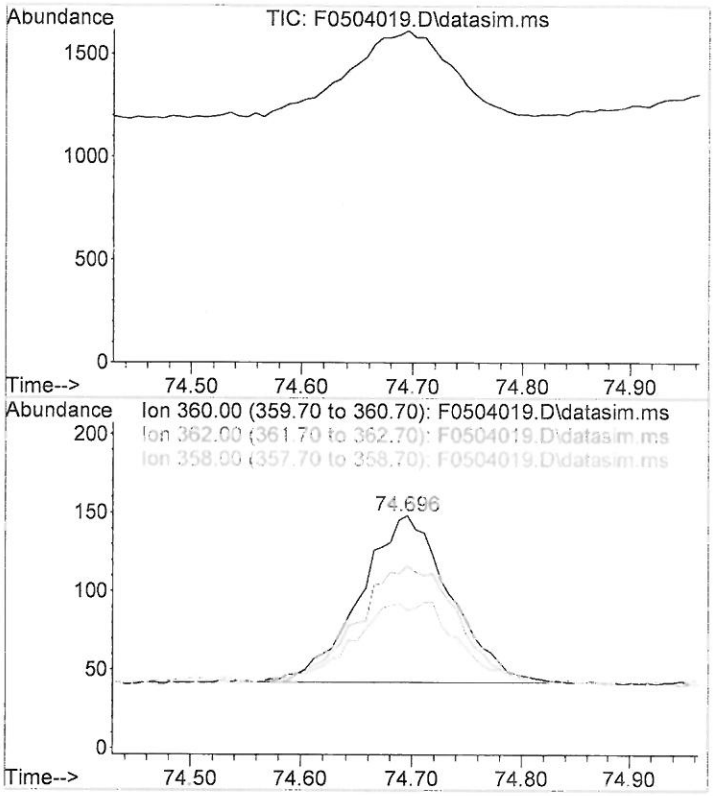
Ion	Ratio	Lower	Upper
360	100		
362	77.4	53.7	93.7
358	53.5	33.2	73.2



#133
CL7-BZ#179
Concen: 1.02 ng/mL
RT: 74.039 min Scan# 9609
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:394 Resp: 366

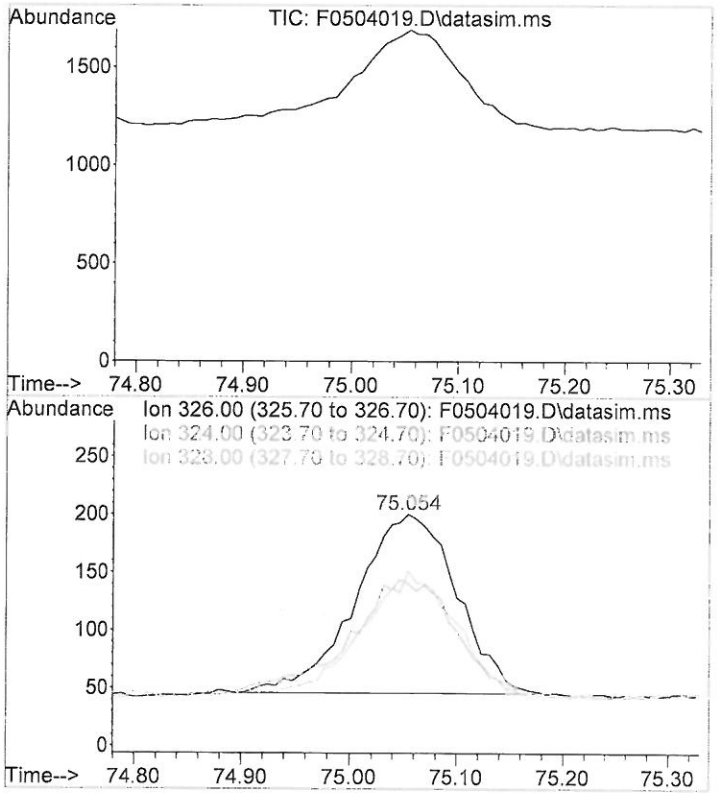
Ion	Ratio	Lower	Upper
394	100		
396	93.2	70.6	110.6
398	28.7	28.3	68.3



#134
CL6-BZ#141
Concen: 1.86 ng/mL
RT: 74.696 min Scan# 9695
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 604

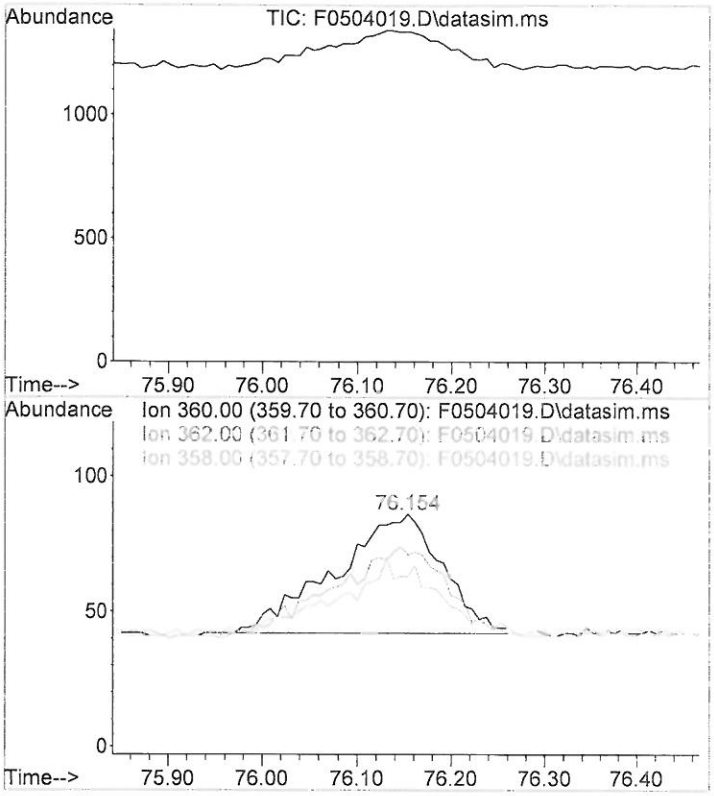
Ion	Ratio	Lower	Upper
360	100		
362	76.3	56.8	96.8
358	29.5	32.4	72.4#



#136
CL5-BZ#105
Concen: 1.38 ng/mL
RT: 75.054 min Scan# 9742
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:326 Resp: 1002

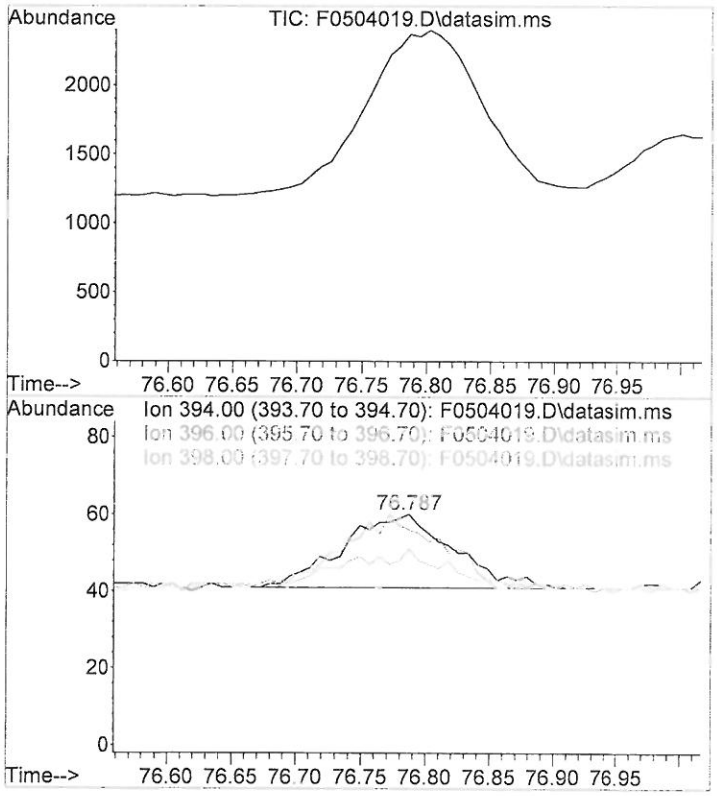
Ion	Ratio	Lower	Upper
326	100		
324	67.8	48.4	88.4
328	61.0	43.4	83.4



#140
CL6-BZ#130/#164
Concen: 0.93 ng/mL
RT: 76.154 min Scan# 9886
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 346

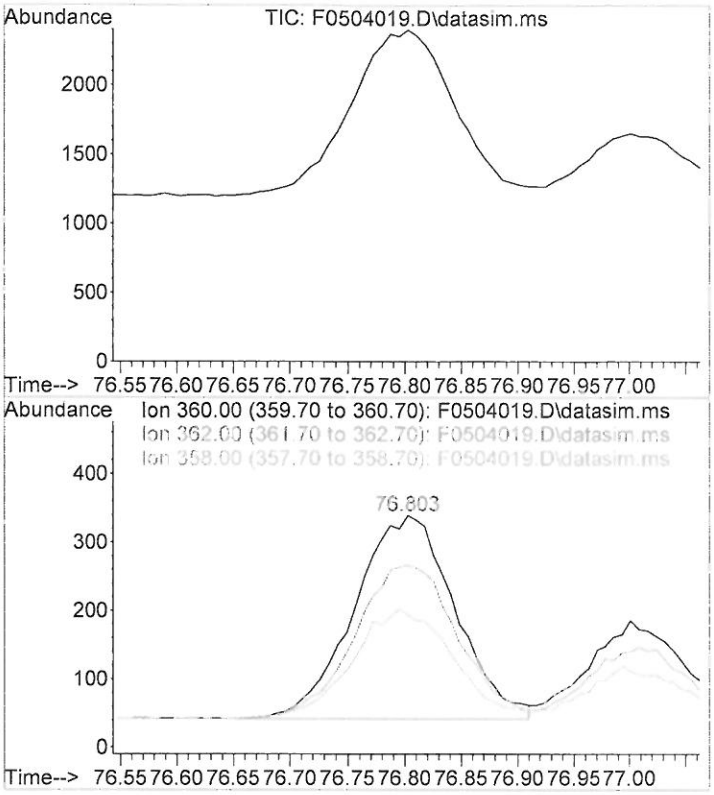
Ion	Ratio	Lower	Upper
360	100		
362	83.5	57.0	97.0
358	31.2	33.6	73.6#



#141
CL7-BZ#178
Concen: 0.49 ng/mL
RT: 76.787 min Scan# 9969
Delta R.T. 0.018 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:394 Resp: 113

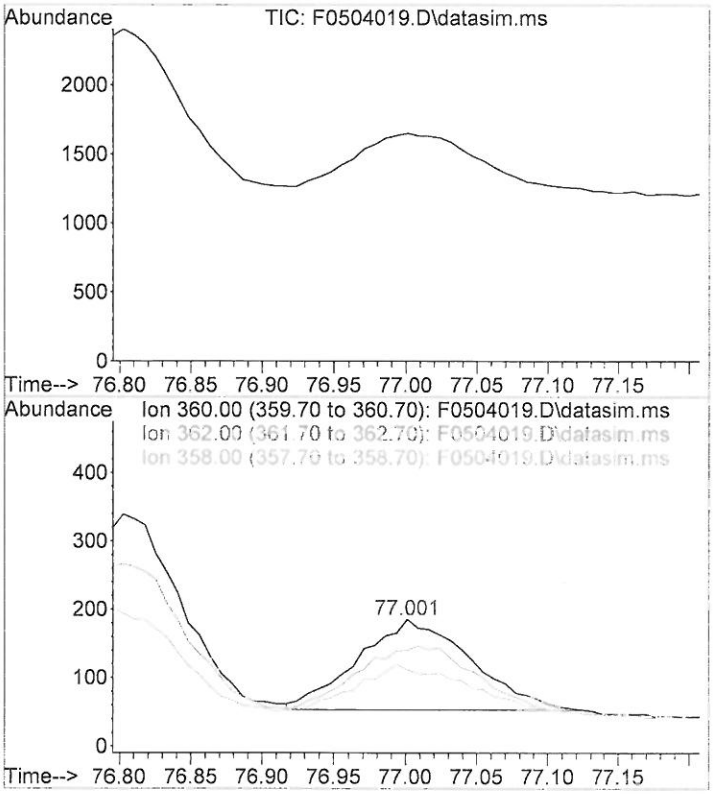
Ion	Ratio	Lower	Upper
394	100		
396	89.4	74.3	114.3
398	0.0	30.8	70.8#



#142
CL6-BZ#138
Concen: 5.37 ng/mL
RT: 76.803 min Scan# 9971
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 1829

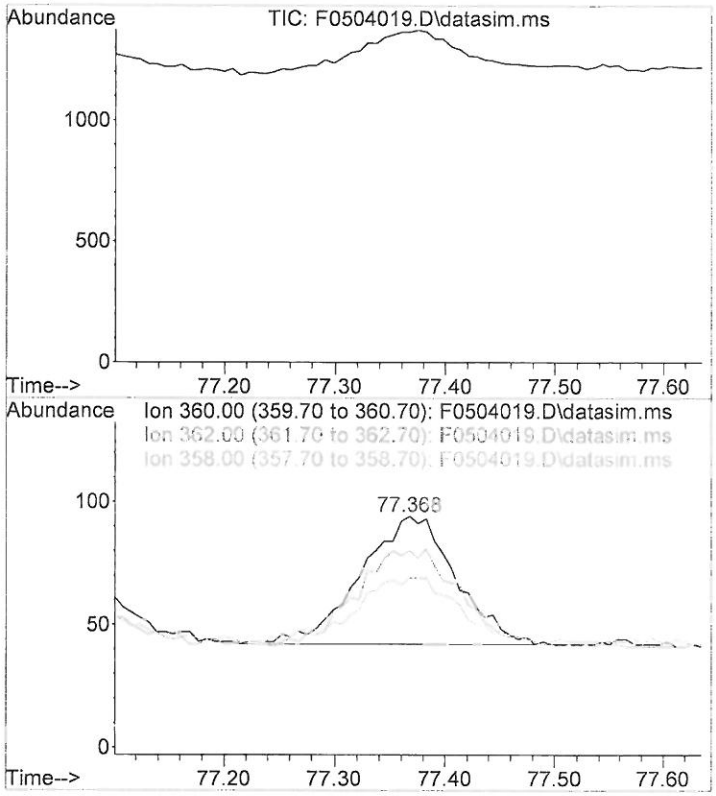
Ion	Ratio	Lower	Upper
360	100		
362	77.7	57.8	97.8
358	53.0	35.6	75.6



#143
CL6-BZ#160/#129/#163
Concen: 1.96 ng/mL
RT: 77.001 min Scan# 9997
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 718

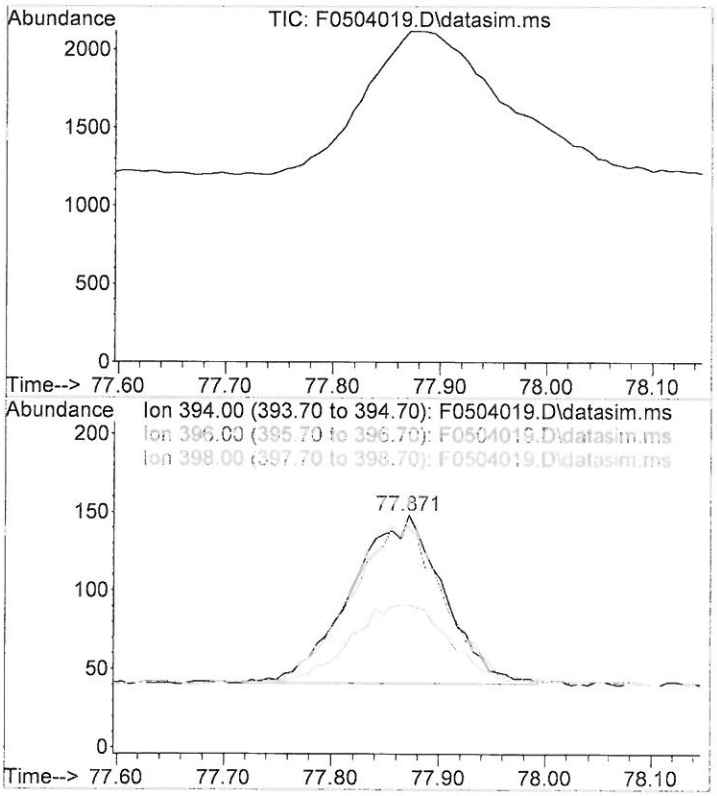
Ion	Ratio	Lower	Upper
360	100		
362	79.9	59.1	99.1
358	52.1	33.2	73.2



#144
CL6-BZ#158
Concen: 0.64 ng/mL
RT: 77.368 min Scan# 10045
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 312

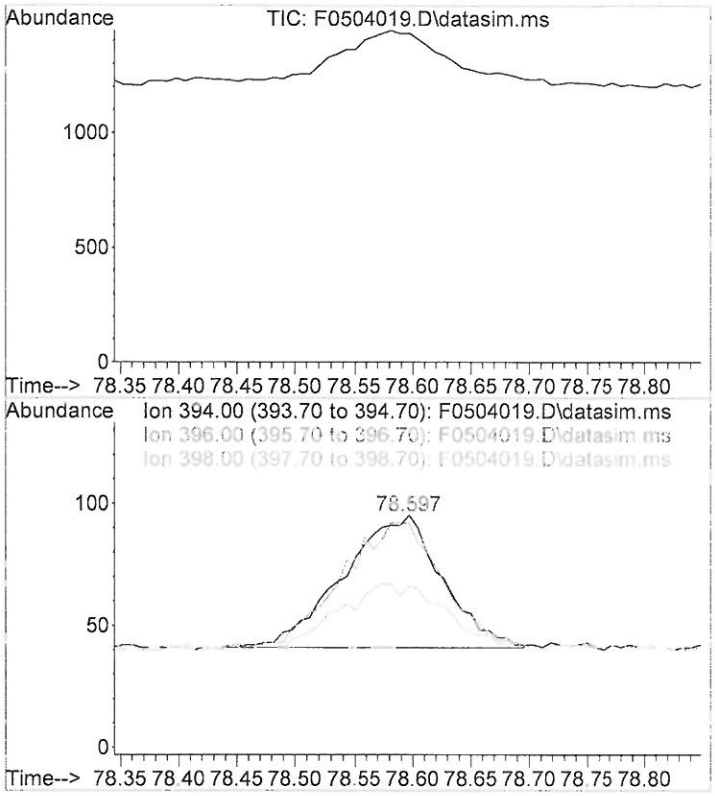
Ion	Ratio	Lower	Upper
360	100		
362	38.8	57.8	97.8#
358	58.0	33.7	73.7



#146
CL7-BZ#187
Concen: 2.58 ng/mL
RT: 77.871 min Scan# 10111
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:394 Resp: 638

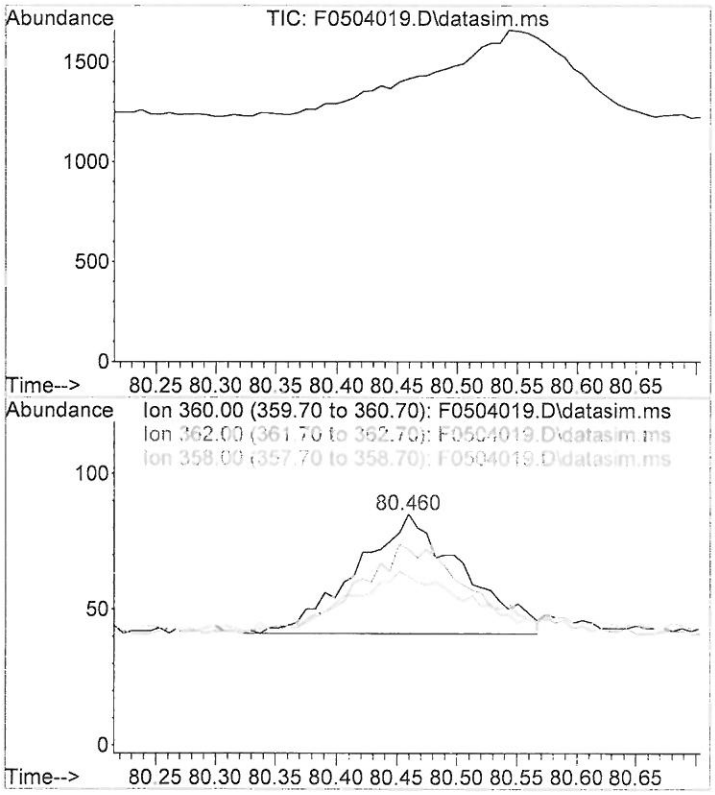
Ion	Ratio	Lower	Upper
394	100		
396	93.1	73.5	113.5
398	49.4	30.6	70.6



#147
CL7-BZ#183
Concen: 1.18 ng/mL
RT: 78.597 min Scan# 10206
Delta R.T. 0.025 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:394 Resp: 316

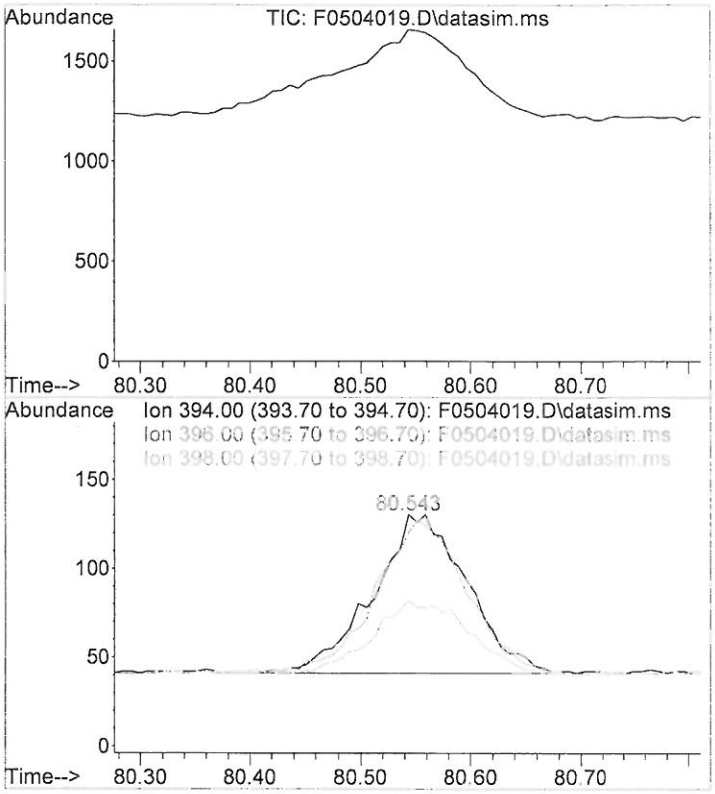
Ion	Ratio	Lower	Upper
394	100		
396	96.5	70.2	110.2
398	0.0	31.7	71.7#



#152
CL6-BZ#128/#162
Concen: 0.77 ng/mL
RT: 80.460 min Scan# 10450
Delta R.T. 0.025 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 269

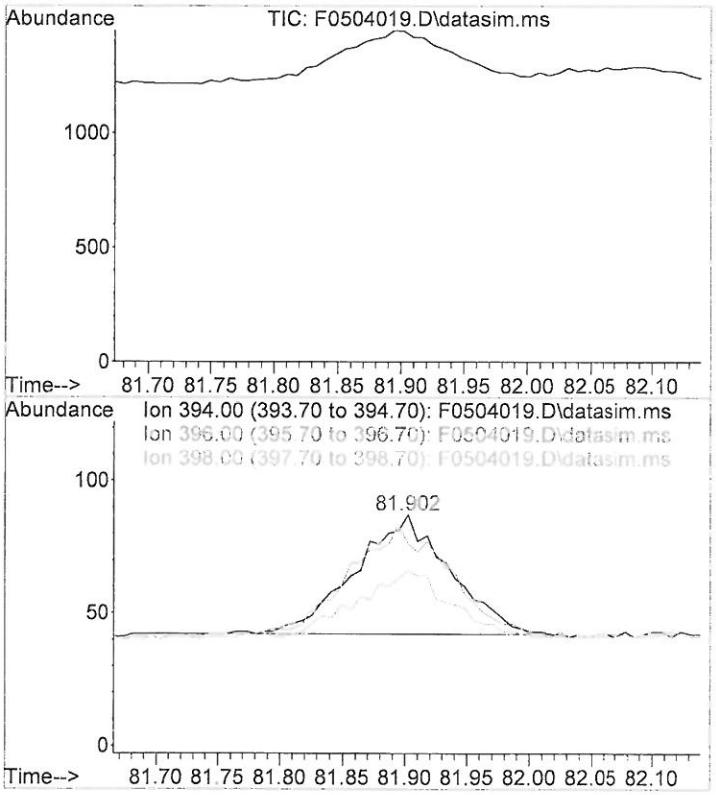
Ion	Ratio	Lower	Upper
360	100		
362	77.3	55.6	95.6
358	50.9	31.0	71.0



#153
CL7-BZ#174
Concen: 2.22 ng/mL
RT: 80.543 min Scan# 10461
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:394 Resp: 525

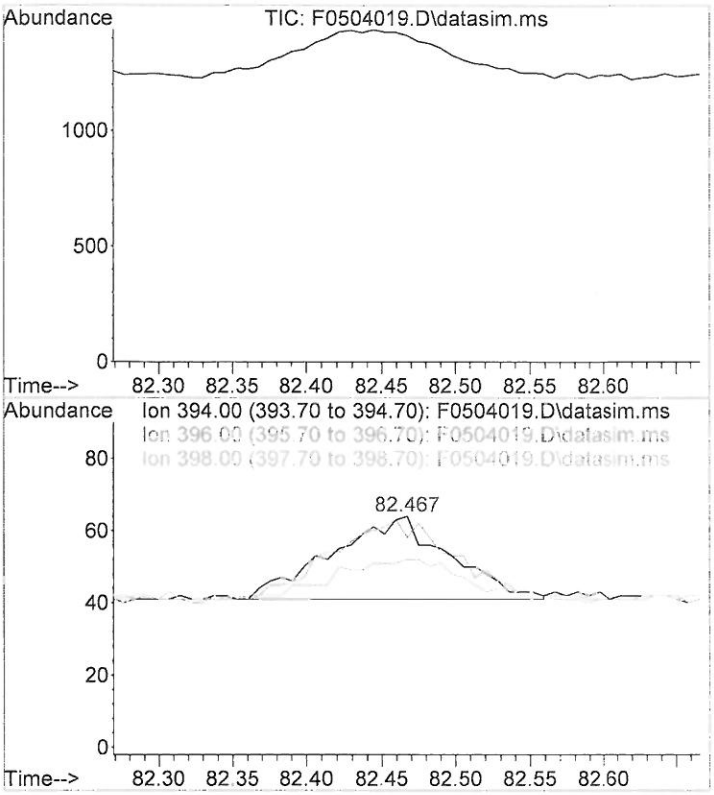
Ion	Ratio	Lower	Upper
394	100		
396	94.3	70.3	110.3
398	46.1	29.5	69.5



#157
CL7-BZ#177
Concen: 1.09 ng/mL
RT: 81.902 min Scan# 10639
Delta R.T. 0.018 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:394 Resp: 237

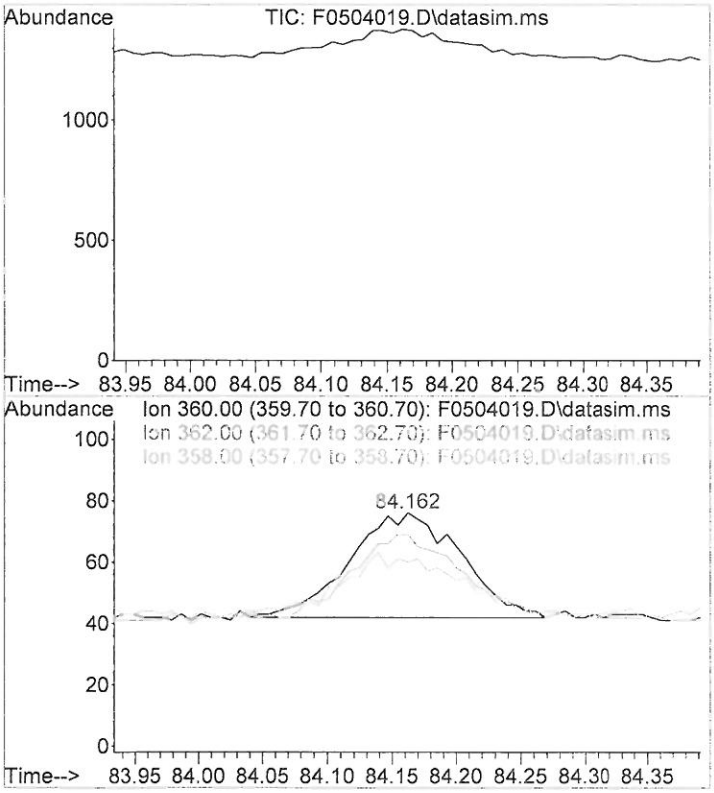
Ion	Ratio	Lower	Upper
394	100		
396	99.6	71.0	111.0
398	53.6	31.0	71.0



#159
CL7-BZ#171
Concen: 0.54 ng/mL
RT: 82.467 min Scan# 10713
Delta R.T. 0.018 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:394 Resp: 126

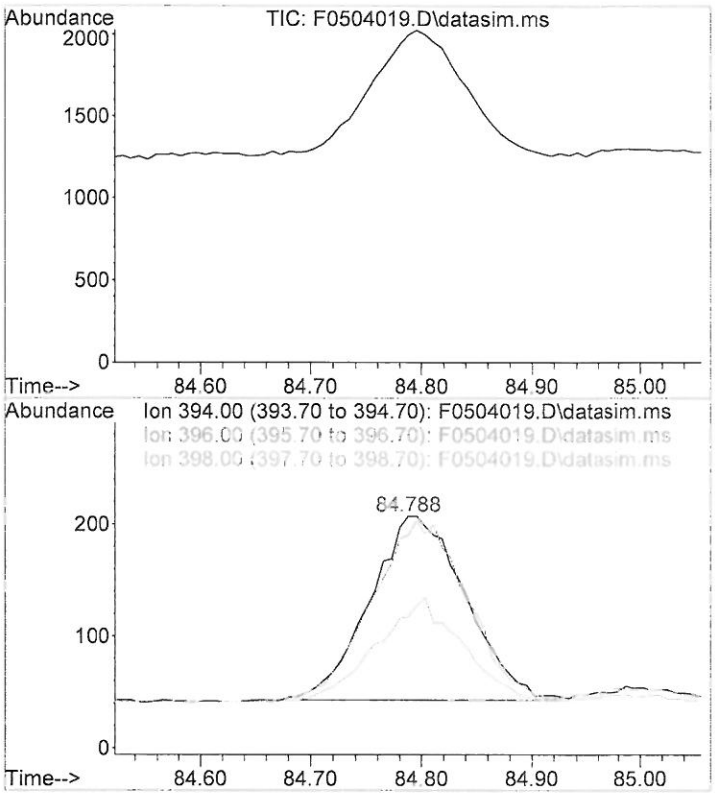
Ion	Ratio	Lower	Upper
394	100		
396	109.5	74.5	114.5
398	0.0	29.2	69.2#



#163
CL6-BZ#156
Concen: 0.45 ng/mL
RT: 84.162 min Scan# 10935
Delta R.T. 0.010 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:360 Resp: 202

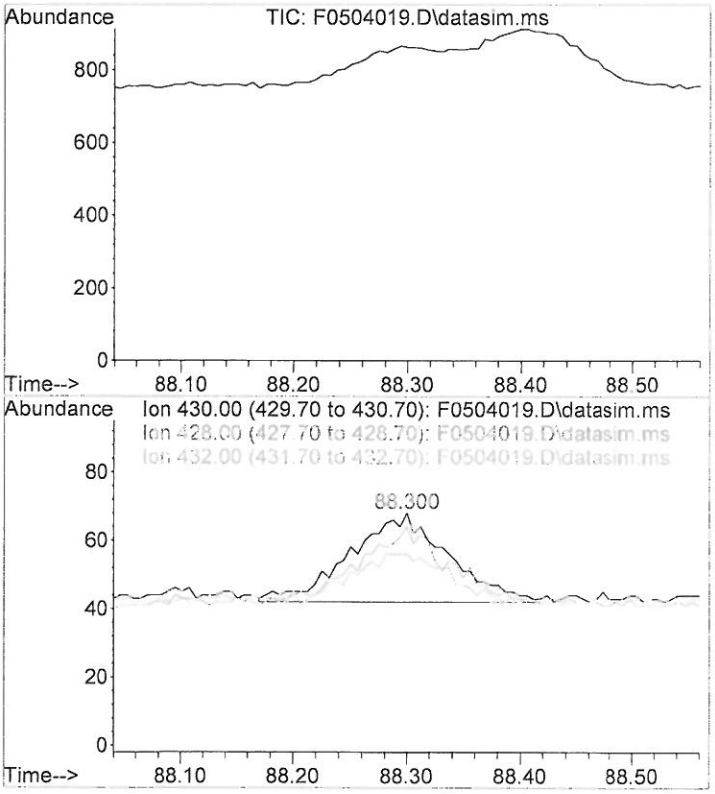
Ion	Ratio	Lower	Upper
360	100		
362	76.2	58.2	98.2
358	0.0	35.5	75.5#



#166
CL7-BZ#180
Concen: 4.48 ng/mL
RT: 84.788 min Scan# 11017
Delta R.T. -0.005 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:394 Resp: 988

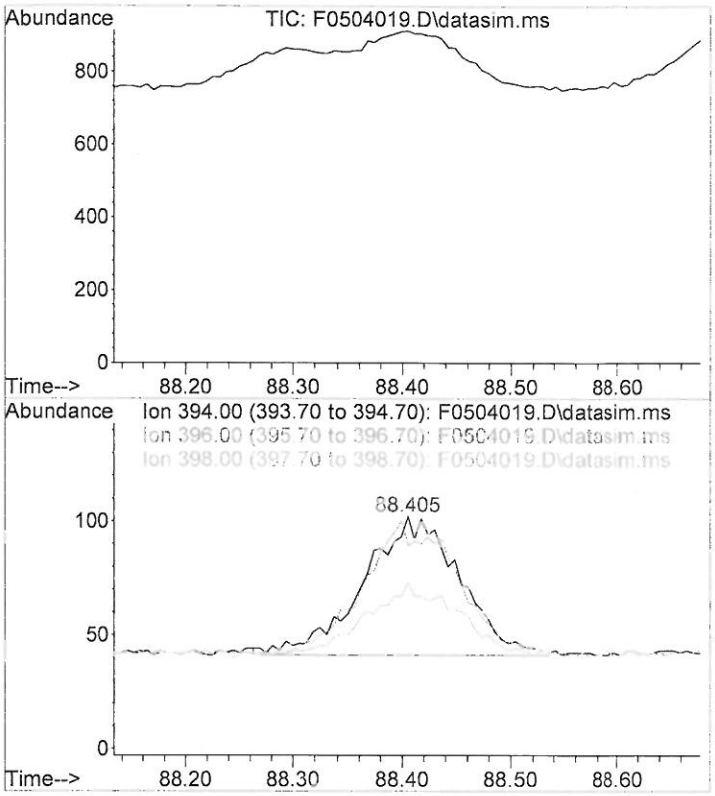
Ion	Ratio	Lower	Upper
394	100		
396	98.0	74.4	114.4
398	52.5	32.4	72.4



#171
CL8-BZ#201
Concen: 0.93 ng/mL
RT: 88.300 min Scan# 11516
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:430 Resp: 155

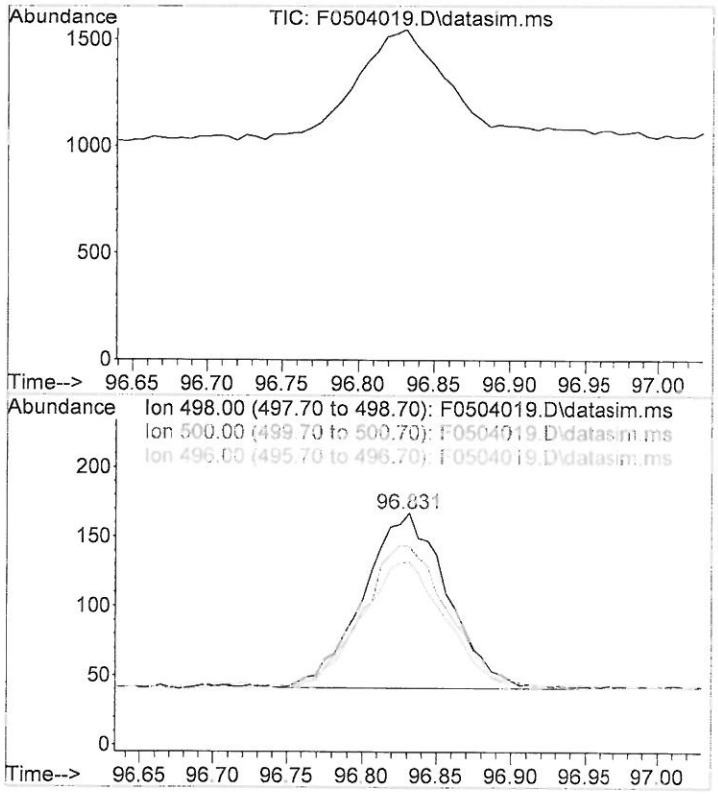
Ion	Ratio	Lower	Upper
430	100		
428	0.0	69.2	109.2#
432	0.0	46.9	86.9#



#172
CL7-BZ#170
Concen: 1.69 ng/mL m
RT: 88.405 min Scan# 11533
Delta R.T. -0.004 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:394 Resp: 375

Ion	Ratio	Lower	Upper
394	100		
396	56.3	74.0	114.0#
398	48.5	32.1	72.1



#185
CL10-BZ#209
Concen: 2.18 ng/mL
RT: 96.831 min Scan# 12893
Delta R.T. 0.002 min
Lab File: F0504019.D
Acq: 5 May 2017 7:24 pm

Tgt Ion:498 Resp: 497

Ion	Ratio	Lower	Upper
498	100		
500	85.5	64.3	104.3
496	71.0	50.9	90.9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504020.D
Acq On : 5 May 2017 9:10 pm
Operator : CJM
Sample : 17D0925-03 Inst : GCMSSV6
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 08 12:57:09 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Phenanthrene-D10	43.227	188	911587	500.000	ng/mL	0.00
81) Chrysene-D12	86.140	240	696650	500.000	ng/mL	0.00
177) Perylene-D12	101.503	264	670333	500.000	ng/mL	0.02
System Monitoring Compounds						
6) TCMX	31.955	244	9159	39.972	ng/mL	-0.01
Target Compounds						Qvalue
2] CL1-BZ#1	24.721	188	278	0.284	ng/mL#	66
5] CL2-BZ#4/#10	30.991	222	766	1.020	ng/mL#	71
11] CL2-BZ#8	36.644	222	337	0.294	ng/mL	85
12] CL3-BZ#19	38.189	256	2251	5.082	ng/mL	98
15] CL3-BZ#18	41.082	256	3609	7.326	ng/mL	98
16] CL2-BZ#11	41.326	222	345	0.305	ng/mL	89
17] CL3-BZ#17	41.471	256	3230	5.824	ng/mL	94
19] CL3-BZ#27	42.197	256	763	0.948	ng/mL#	83
22] CL3-BZ#16	43.357	256	768	1.799	ng/mL#	15
23] CL3-BZ#32	43.823	256	5877	6.779	ng/mL	99
30] CL3-BZ#26	46.594	256	954	1.116	ng/mL	98
31] CL3-BZ#25	46.976	256	325	0.425	ng/mL	98
32] CL4-BZ#53	47.930	292	1554	3.280	ng/mL	99
33] CL3-BZ#31	48.128	256	4280	4.820	ng/mL	98
34] CL3-BZ#28	48.503	256	9130	10.754	ng/mL	99
36] CL4-BZ#51	48.709	292	493	0.979	ng/mL	98
37] CL4-BZ#45	49.770	292	1080	2.394	ng/mL	99
38] CL3-BZ#22	50.266	256	928	1.211	ng/mL	98
39] CL4-BZ#46	50.503	292	361	0.869	ng/mL#	78
42] CL4-BZ#43	51.373	292	182	0.496	ng/mL#	72
44] CL4-BZ#52	51.732	292	9589	17.962	ng/mL	99
45] CL4-BZ#48	51.953	292	1091	2.280	ng/mL	98
46] CL4-BZ#49	52.304	292	5928	10.627	ng/mL	99
48] CL4-BZ#47/#65/#62	52.854	292	2796	4.576	ng/mL	99
49] CL4-BZ#75	53.083	292	274	0.375	ng/mL#	68
52] CL4-BZ#44	54.114	292	5470	13.607	ng/mL	98
53] CL4-BZ#59	54.549	292	551	0.811	ng/mL	96
54] CL4-BZ#42	54.686	292	1799	4.533	ng/mL	99
55] CL4-BZ#71	55.160	292	2541	3.808	ng/mL	99
57] CL4-BZ#41	55.541	292	353	0.816	ng/mL#	69
61] CL4-BZ#64	56.450	292	4000	6.265	ng/mL	99
62] CL4-BZ#40/#68	56.572	292	644m	1.242	ng/mL	
67] CL4-BZ#67/#58	58.190	292	105	0.151	ng/mL#	17
68] CL5-BZ#102	58.267	326	135	0.337	ng/mL#	18
71] CL5-BZ#93	59.076	326	123	0.338	ng/mL#	42
73] CL4-BZ#63	59.389	292	191	0.258	ng/mL#	70
74] CL5-BZ#88/#95	59.534	326	1239	2.850	ng/mL	99
76] CL4-BZ#74	59.908	292	796	1.167	ng/mL	98
78] CL4-BZ#70	60.275	292	4665	5.915	ng/mL	92
79] CL5-BZ#91	60.511	326	296	0.751	ng/mL#	1
80] CL4-BZ#66	60.771	292	4804	6.621	ng/mL	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504020.D
Acq On : 5 May 2017 9:10 pm
Operator : CJM
Sample : 17D0925-03 Inst : GCMSSV6
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 08 12:57:09 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration

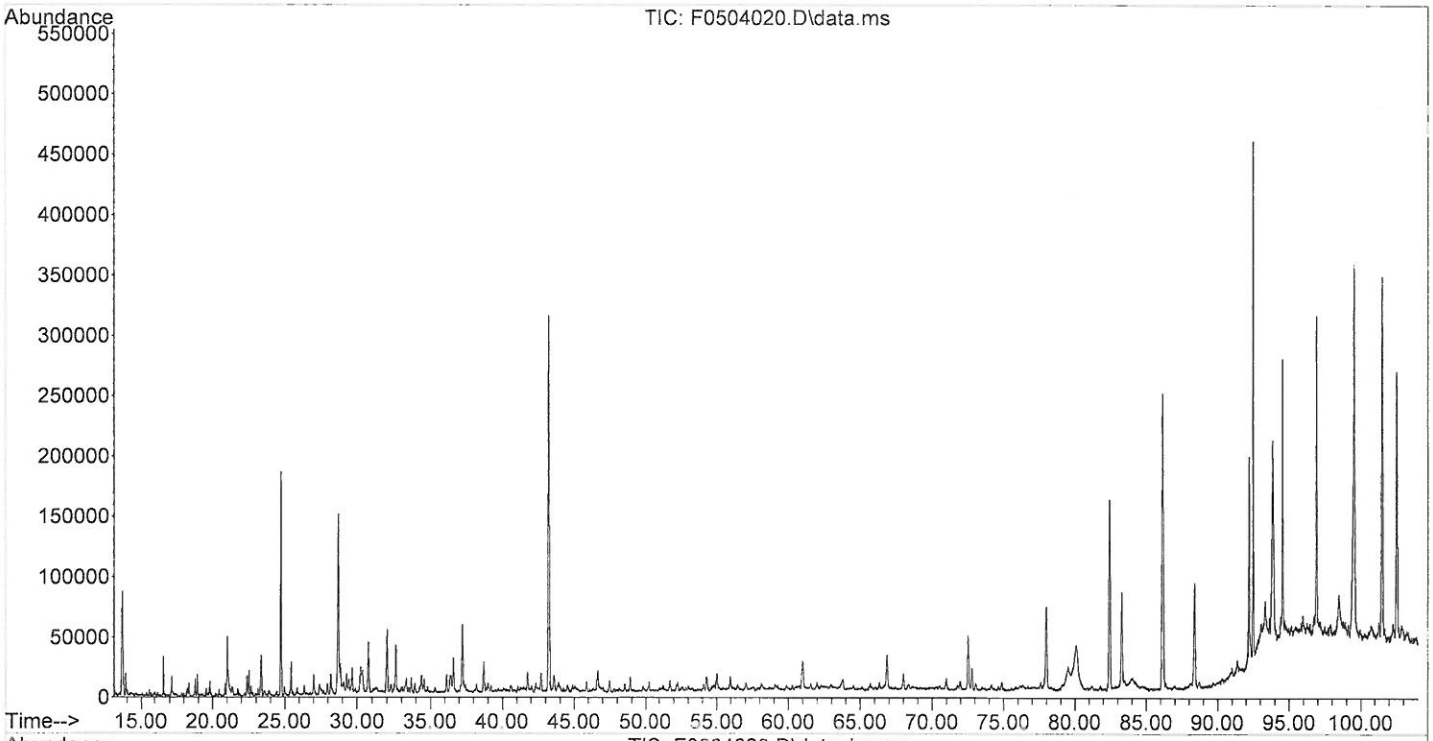
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
83] CL5-BZ#92	61.855	326	266	0.606 ng/mL	92
84] CL5-BZ#89/#84	62.191	326	401	1.029 ng/mL	96
85] CL4-BZ#56	62.427	292	1630	2.302 ng/mL	99
86] CL5-BZ#90/#101	62.618	326	1188	2.536 ng/mL	99
89] CL5-BZ#99	63.282	326	660	1.299 ng/mL	98
96] CL5-BZ#97	64.985	326	350	0.921 ng/mL	98
99] CL5-BZ#116	65.680	326	132	0.226 ng/mL#	26
100] CL5-BZ#87	66.245	326	447	1.026 ng/mL#	75
102] CL6-BZ#154/#136	66.397	360	105	0.231 ng/mL#	16
104] CL5-BZ#85	66.916	326	283	0.641 ng/mL#	82
105] CL5-BZ#120/#110	67.481	326	1646	2.650 ng/mL	99
109] CL5-BZ#82	68.703	326	139	0.394 ng/mL#	45
111] CL6-BZ#147/#149	69.543	360	244	0.687 ng/mL	97
123] CL5-BZ#118	71.688	326	632	1.146 ng/mL	99
131] CL6-BZ#153	73.222	360	303	0.767 ng/mL	93
136] CL5-BZ#105	75.055	326	234	0.322 ng/mL	92
185] CL10-BZ#209	96.838	498	524	2.353 ng/mL	96

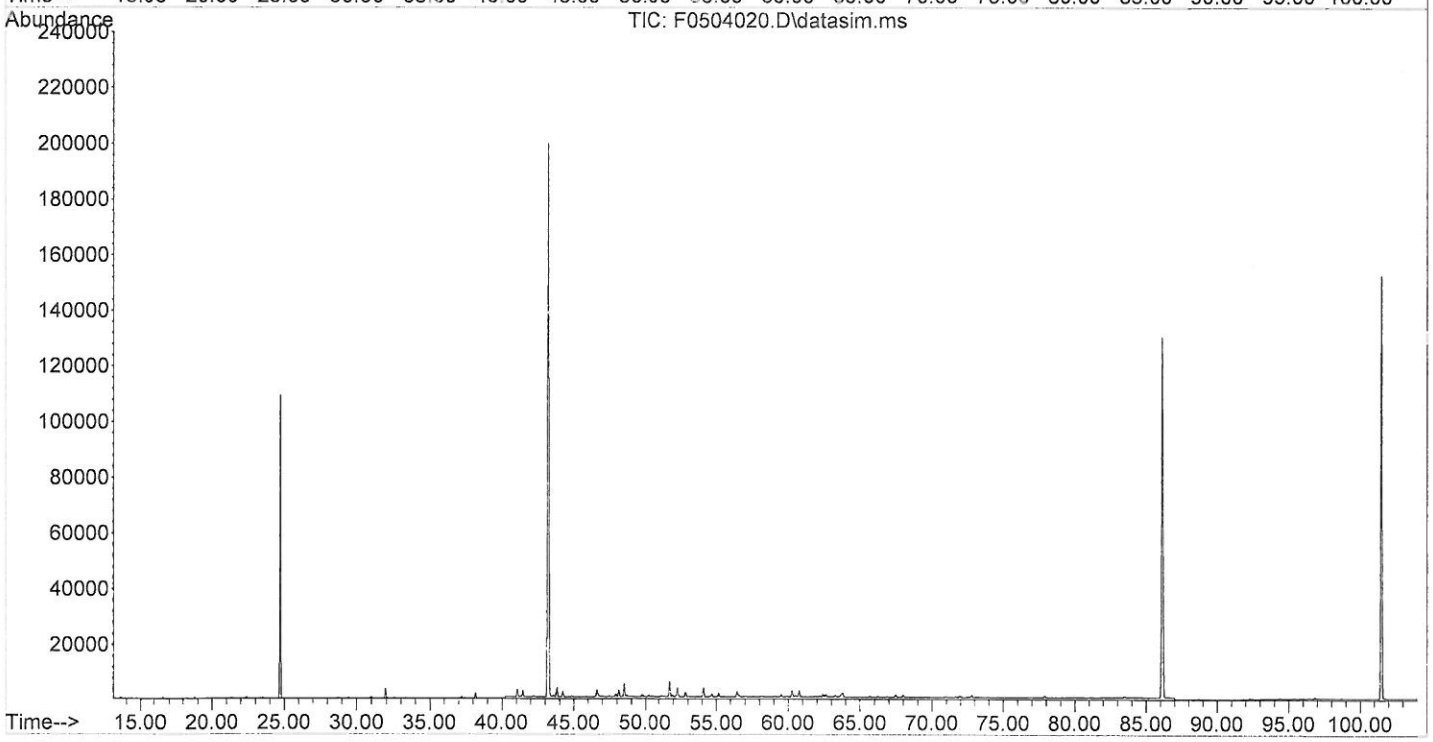
(#) = qualifier out of range (m) = manual integration (+) = signals summed

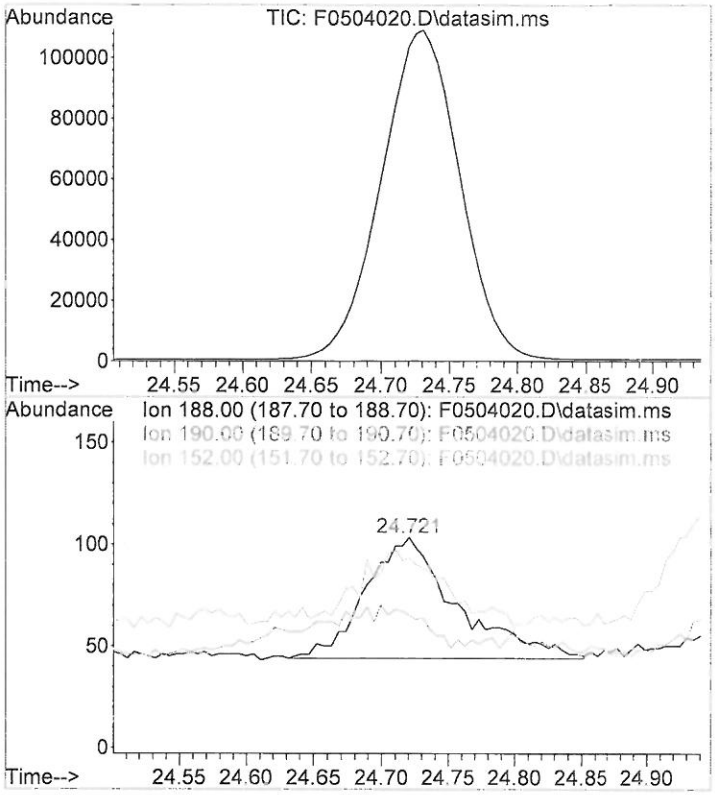
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F050417\
Data File : F0504020.D
Acq On : 5 May 2017 9:10 pm
Operator : CJM
Sample : 17D0925-03 Inst : GCMSSV6
Misc :
ALS Vial : 38 Sample Multiplier: 1

Quant Time: May 08 12:57:09 2017
DataAcq Meth:CNG010.M
Quant Method : C:\msdchem\1\methods\CONSIM050417.m
Quant Title : METHOD 680 INITIAL CALIBRATION
QLast Update : Fri May 05 11:32:53 2017
Response via : Initial Calibration



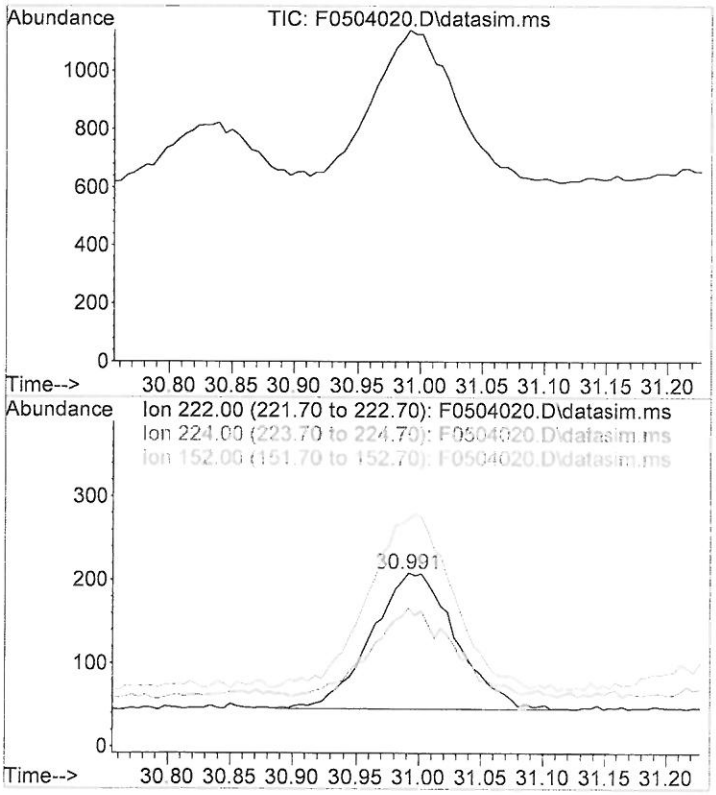




#2
CL1-BZ#1
Concen: 0.28 ng/mL
RT: 24.721 min Scan# 2221
Delta R.T. 0.000 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:188 Resp: 278

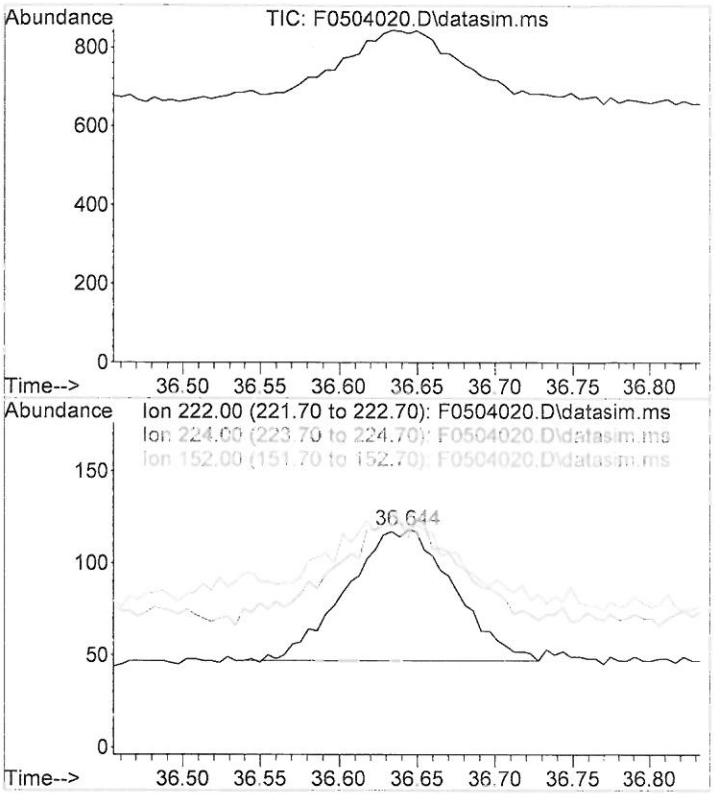
Ion	Ratio	Lower	Upper
188	100		
190	0.0	13.8	53.8#
152	40.6	32.8	72.8



#5
CL2-BZ#4/#10
Concen: 1.02 ng/mL
RT: 30.991 min Scan# 3418
Delta R.T. -0.042 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:222 Resp: 766

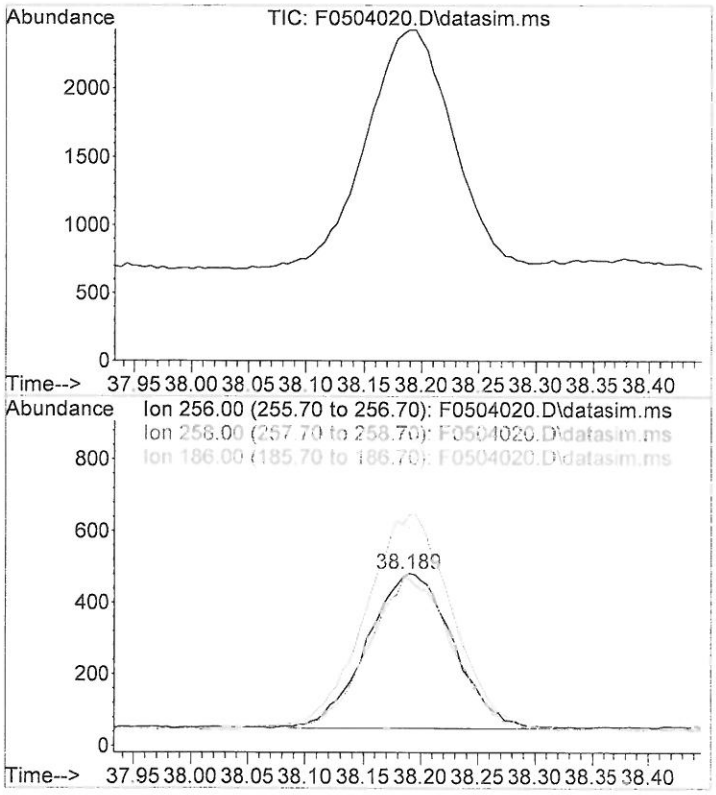
Ion	Ratio	Lower	Upper
222	100		
224	61.7	45.4	85.4
152	127.8	63.9	103.9#



#11
CL2-BZ#8
Concen: 0.29 ng/mL
RT: 36.644 min Scan# 4497
Delta R.T. 0.000 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:222 Resp: 337

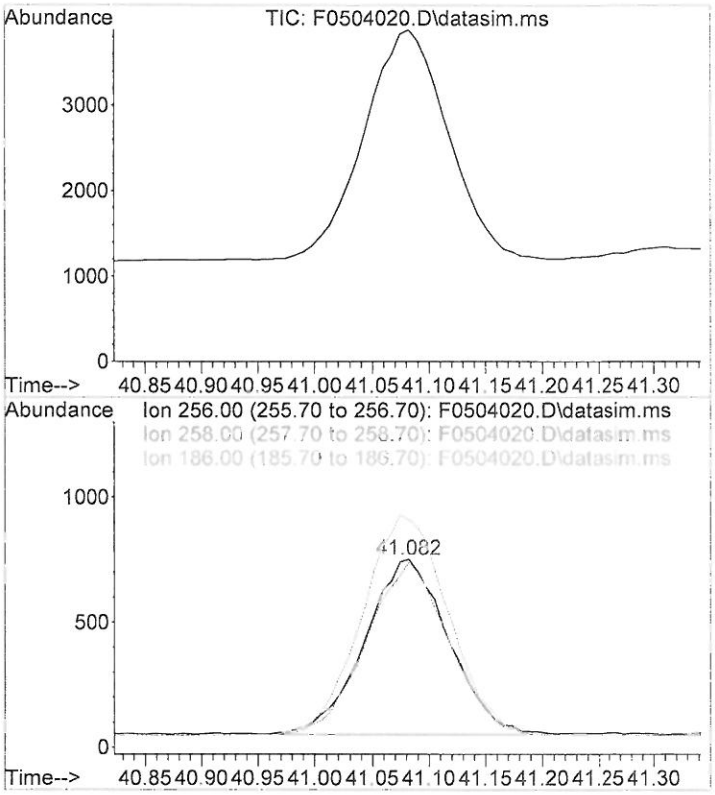
Ion	Ratio	Lower	Upper
222	100		
224	49.9	43.9	83.9
152	73.3	43.3	83.3



#12
CL3-BZ#19
Concen: 5.08 ng/mL
RT: 38.189 min Scan# 4792
Delta R.T. 0.000 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 2251

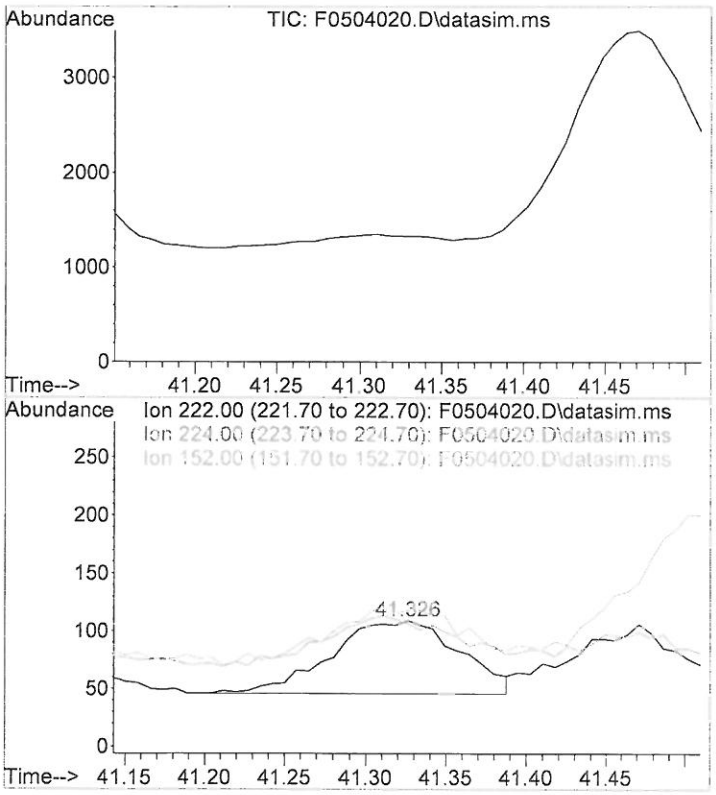
Ion	Ratio	Lower	Upper
256	100		
258	96.7	75.5	115.5
186	139.5	116.7	156.7



#15
CL3-BZ#18
Concen: 7.33 ng/mL
RT: 41.082 min Scan# 5292
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 3609

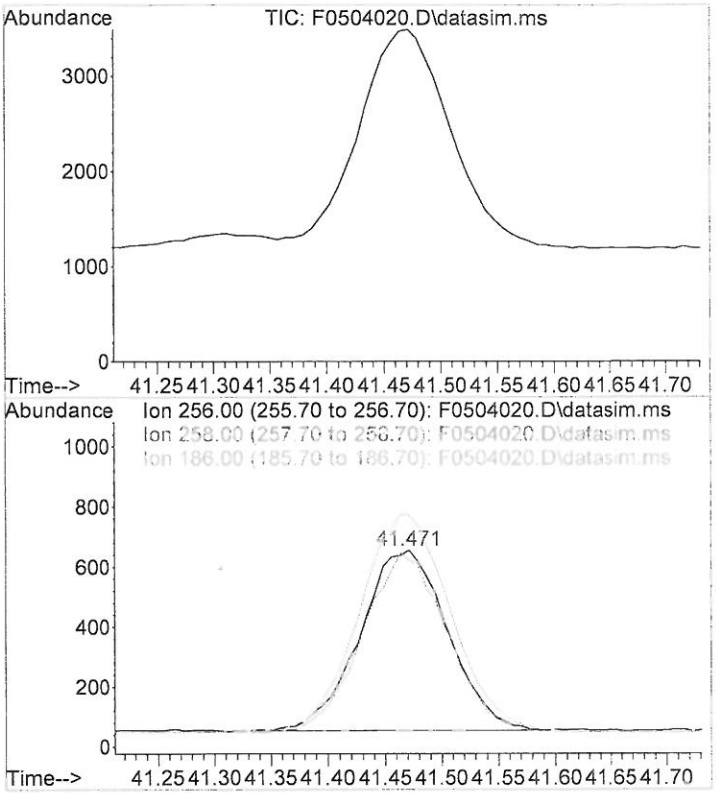
Ion	Ratio	Lower	Upper
256	100		
258	96.6	74.7	114.7
186	128.3	106.5	146.5



#16
CL2-BZ#11
Concen: 0.31 ng/mL
RT: 41.326 min Scan# 5324
Delta R.T. 0.010 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:222 Resp: 345

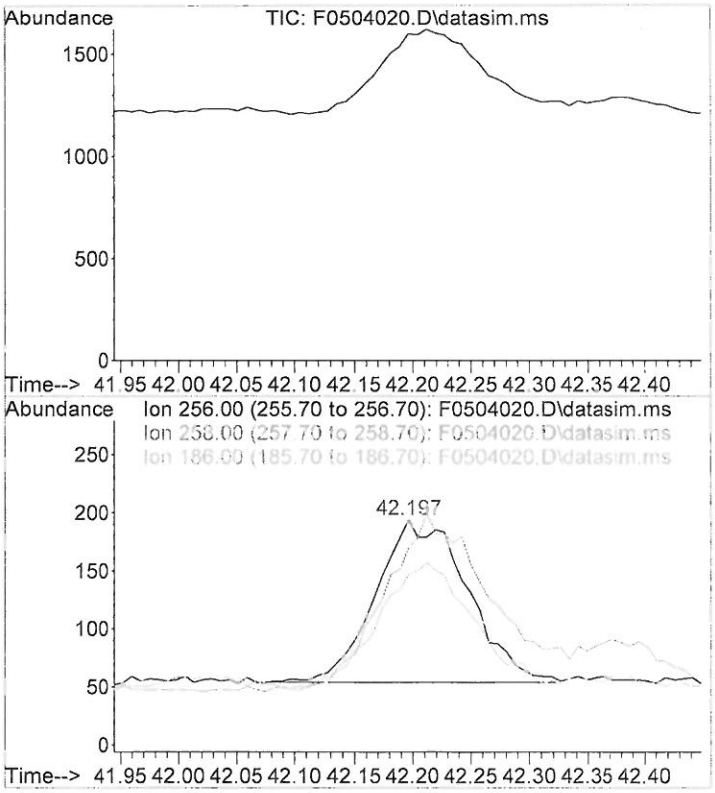
Ion	Ratio	Lower	Upper
222	100		
224	72.8	44.2	84.2
152	68.7	40.5	80.5



#17
CL3-BZ#17
Concen: 5.82 ng/mL
RT: 41.471 min Scan# 5343
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 3230

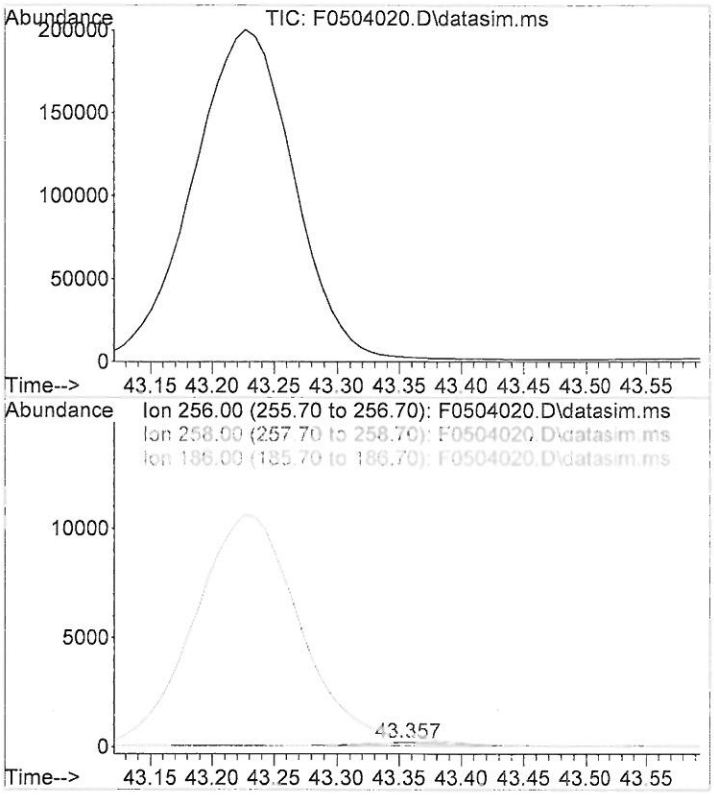
Ion	Ratio	Lower	Upper
256	100		
258	96.6	74.0	114.0
186	124.7	94.6	134.6



#19
CL3-BZ#27
Concen: 0.95 ng/mL
RT: 42.197 min Scan# 5438
Delta R.T. -0.013 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 763

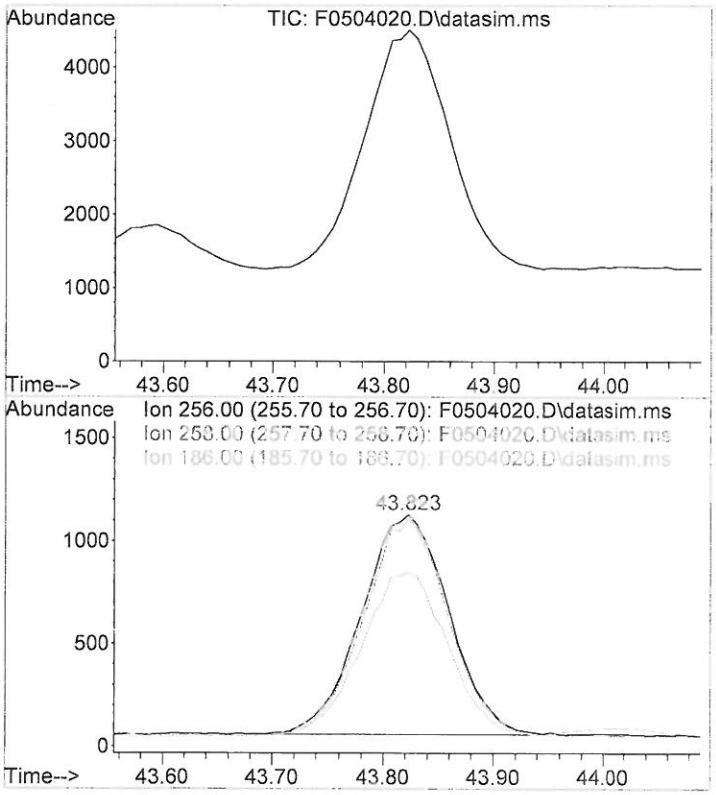
Ion	Ratio	Lower	Upper
256	100		
258	125.7	75.9	115.9#
186	80.1	58.7	98.7



#22
CL3-BZ#16
Concen: 1.80 ng/mL
RT: 43.357 min Scan# 5590
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 768

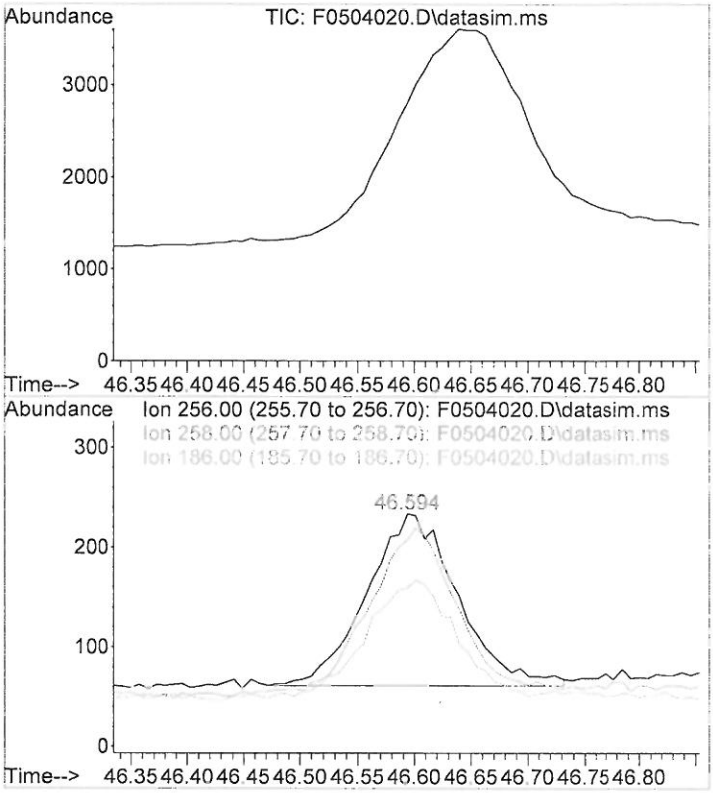
Ion	Ratio	Lower	Upper
256	100		
258	98.7	71.7	111.7
186	0.0	155.4	195.4#



#23
CL3-BZ#32
Concen: 6.78 ng/mL
RT: 43.823 min Scan# 5651
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 5877

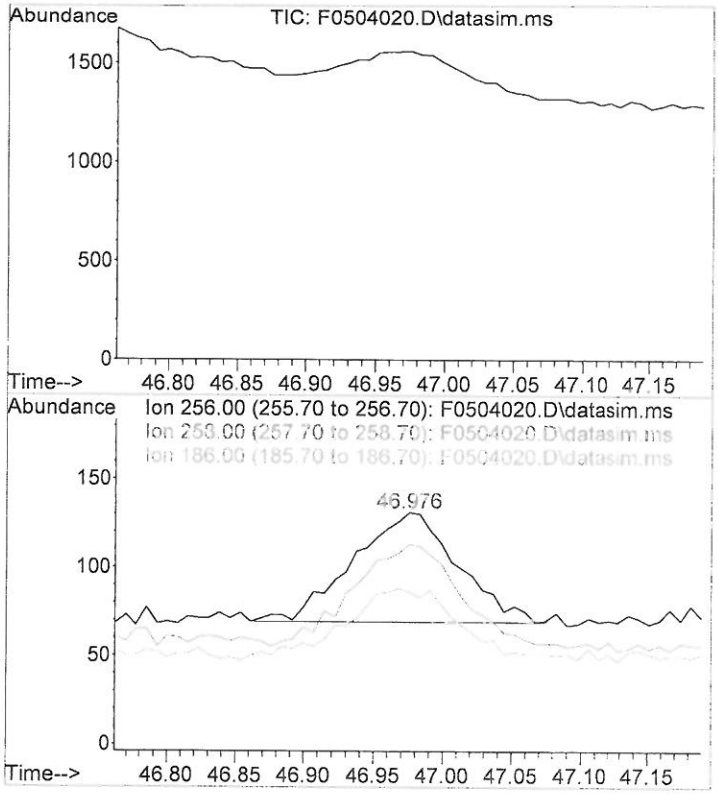
Ion	Ratio	Lower	Upper
256	100		
258	95.7	74.8	114.8
186	73.3	52.6	92.6



#30
CL3-BZ#26
Concen: 1.12 ng/mL
RT: 46.594 min Scan# 6014
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 954

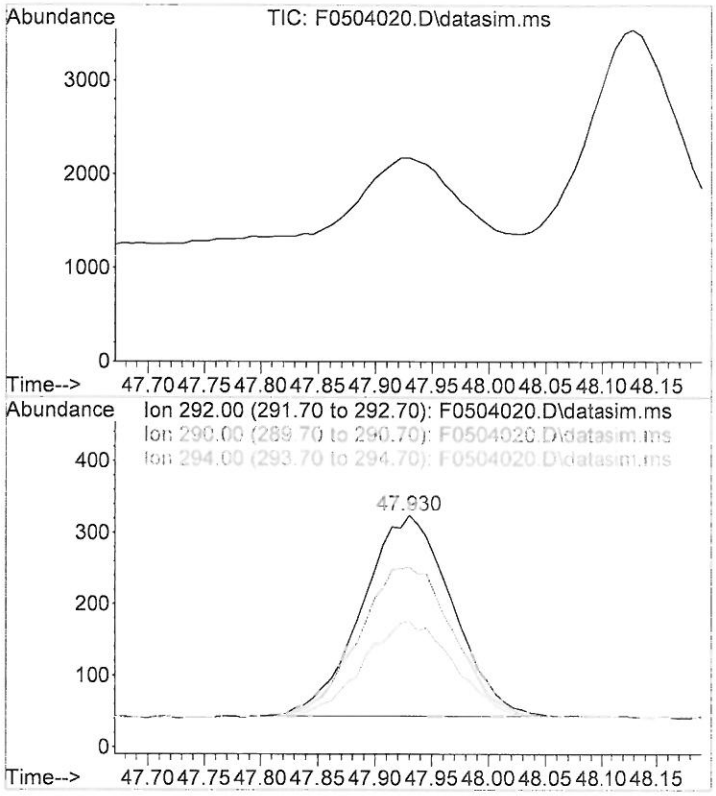
Ion	Ratio	Lower	Upper
256	100		
258	93.6	76.3	116.3
186	68.3	47.2	87.2



#31
CL3-BZ#25
Concen: 0.42 ng/mL
RT: 46.976 min Scan# 6064
Delta R.T. 0.010 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 325

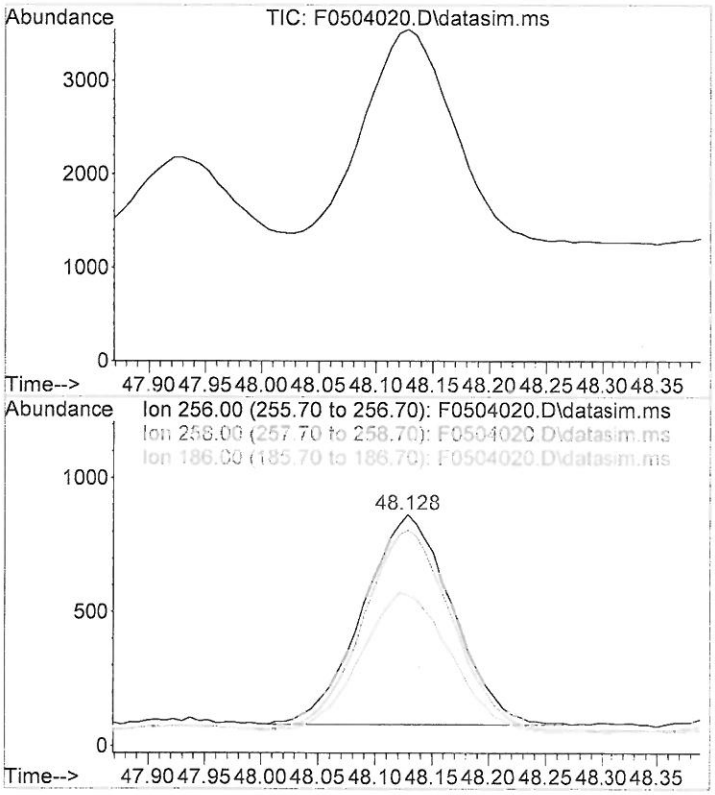
Ion	Ratio	Lower	Upper
256	100		
258	95.7	76.0	116.0
186	73.8	49.6	89.6



#32
CL4-BZ#53
Concen: 3.28 ng/mL
RT: 47.930 min Scan# 6189
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 1554

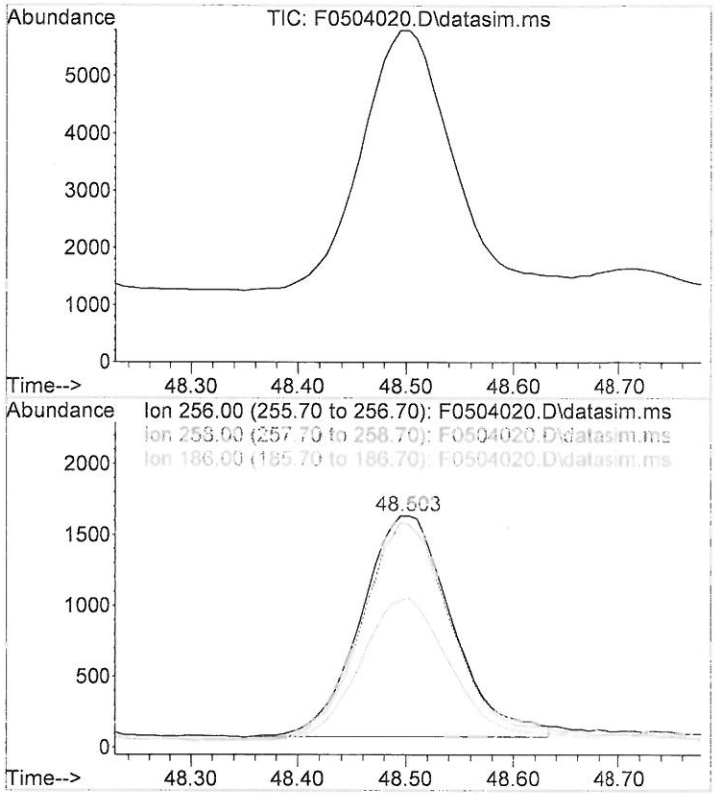
Ion	Ratio	Lower	Upper
292	100		
290	77.9	57.6	97.6
294	47.7	29.4	69.4



#33
CL3-BZ#31
Concen: 4.82 ng/mL
RT: 48.128 min Scan# 6215
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 4280

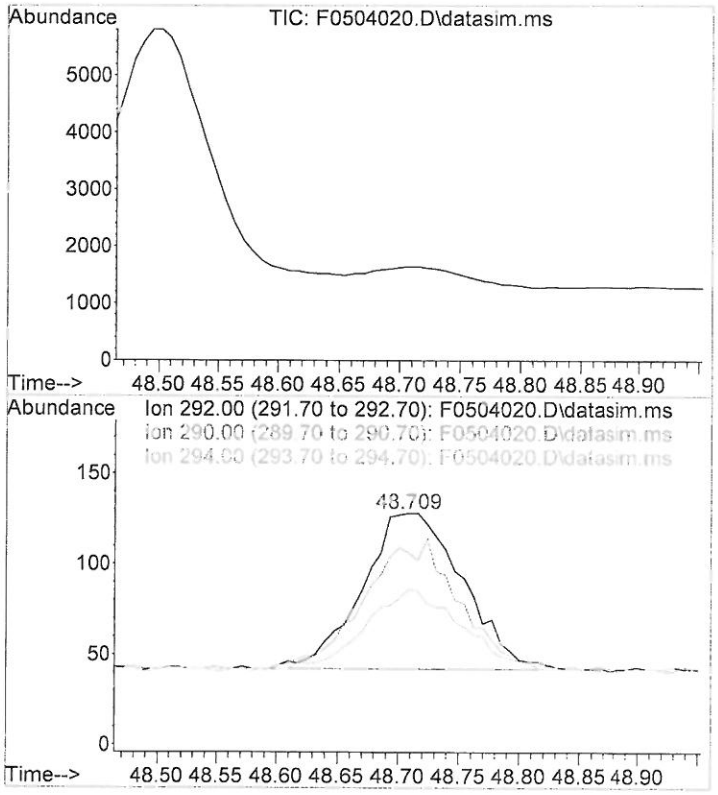
Ion	Ratio	Lower	Upper
256	100		
258	94.1	76.4	116.4
186	66.9	46.5	86.5



#34
CL3-BZ#28
Concen: 10.75 ng/mL
RT: 48.503 min Scan# 6264
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 9130

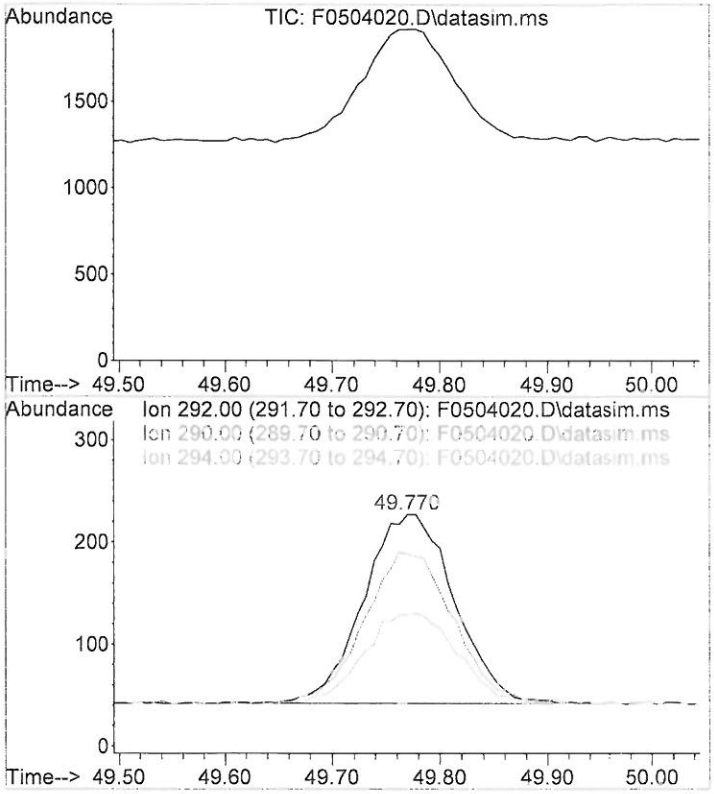
Ion	Ratio	Lower	Upper
256	100		
258	96.6	76.6	116.6
186	63.5	45.9	85.9



#36
CL4-BZ#51
Concen: 0.98 ng/mL
RT: 48.709 min Scan# 6291
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 493

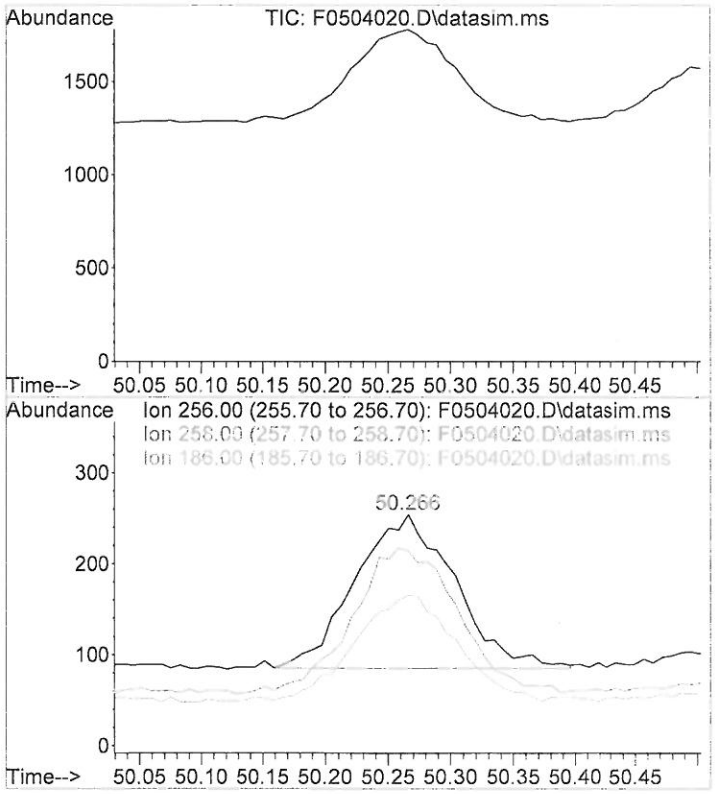
Ion	Ratio	Lower	Upper
292	100		
290	80.1	60.8	100.8
294	51.5	28.8	68.8



#37
CL4-BZ#45
Concen: 2.39 ng/mL
RT: 49.770 min Scan# 6430
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 1080

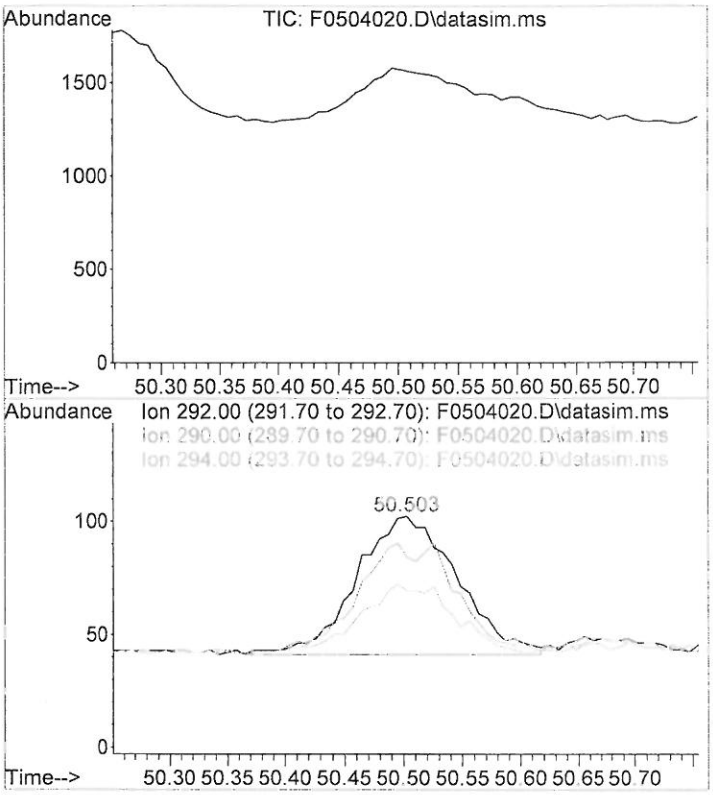
Ion	Ratio	Lower	Upper
292	100		
290	78.2	58.6	98.6
294	49.9	29.4	69.4



#38
CL3-BZ#22
Concen: 1.21 ng/mL
RT: 50.266 min Scan# 6495
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:256 Resp: 928

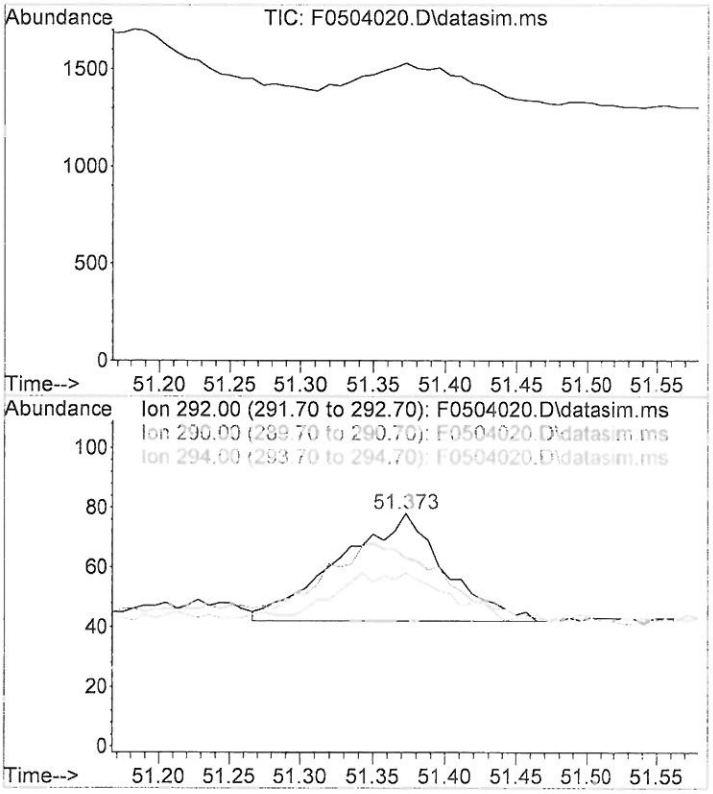
Ion	Ratio	Lower	Upper
256	100		
258	100.9	77.3	117.3
186	69.8	49.8	89.8



#39
CL4-BZ#46
Concen: 0.87 ng/mL
RT: 50.503 min Scan# 6526
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 361

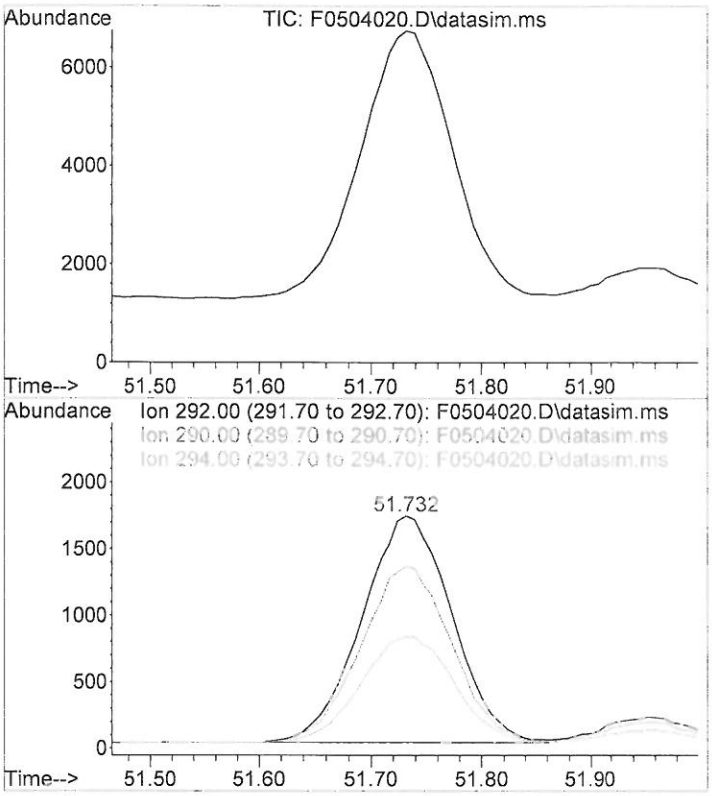
Ion	Ratio	Lower	Upper
292	100		
290	47.6	59.4	99.4#
294	48.5	28.6	68.6



#42
CL4-BZ#43
Concen: 0.50 ng/mL
RT: 51.373 min Scan# 6640
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 182

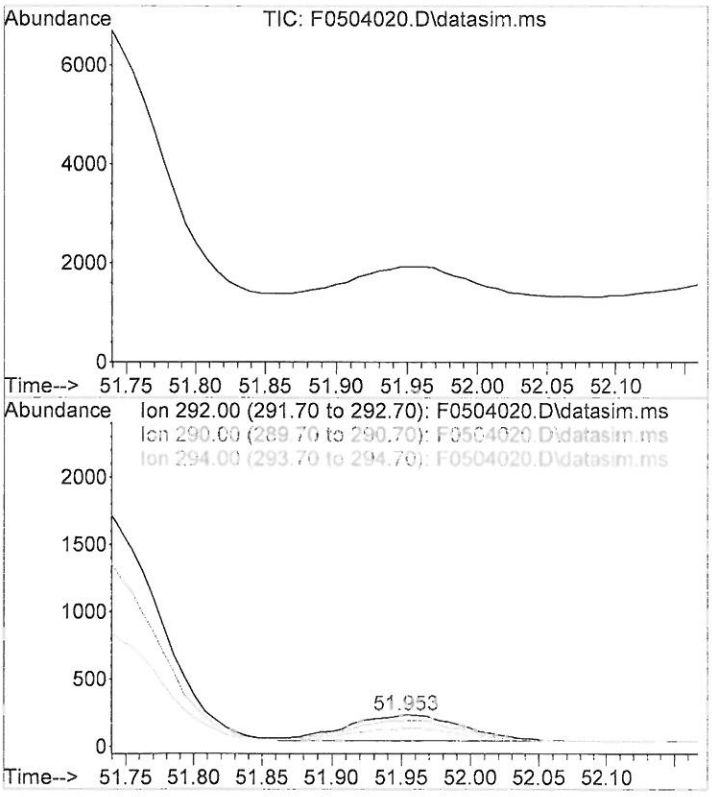
Ion	Ratio	Lower	Upper
292	100		
290	79.1	59.4	99.4
294	0.0	29.3	69.3#



#44
CL4-BZ#52
Concen: 17.96 ng/mL
RT: 51.732 min Scan# 6687
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 9589

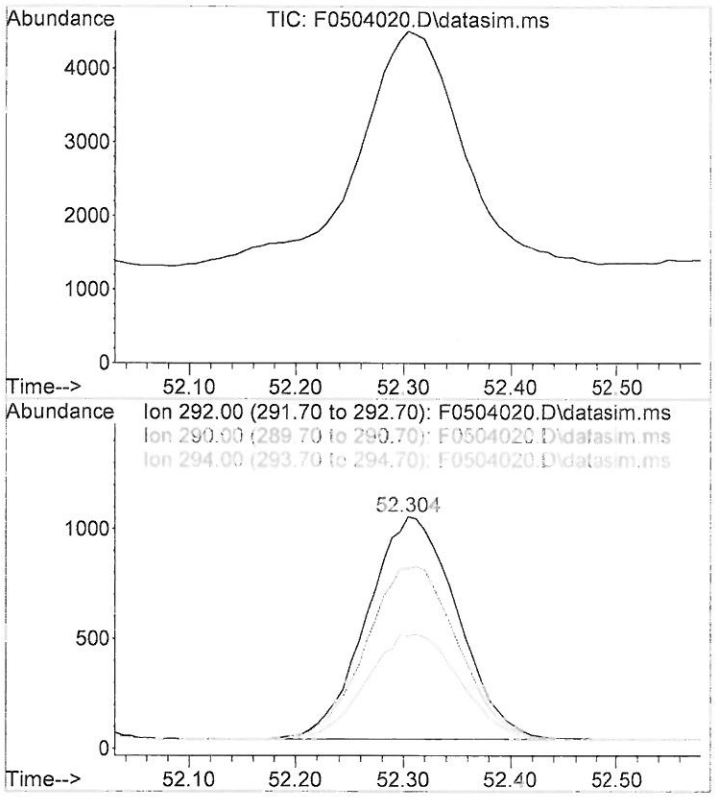
Ion	Ratio	Lower	Upper
292	100		
290	78.3	58.5	98.5
294	48.4	30.1	70.1



#45
CL4-BZ#48
Concen: 2.28 ng/mL
RT: 51.953 min Scan# 6716
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 1091

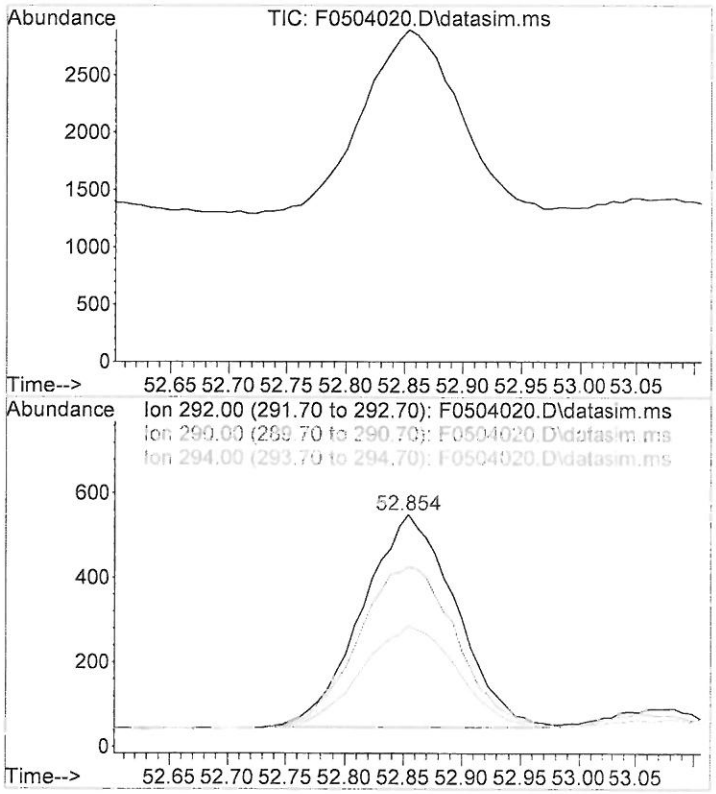
Ion	Ratio	Lower	Upper
292	100		
290	78.4	58.9	98.9
294	47.0	30.2	70.2



#46
CL4-BZ#49
Concen: 10.63 ng/mL
RT: 52.304 min Scan# 6762
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 5928

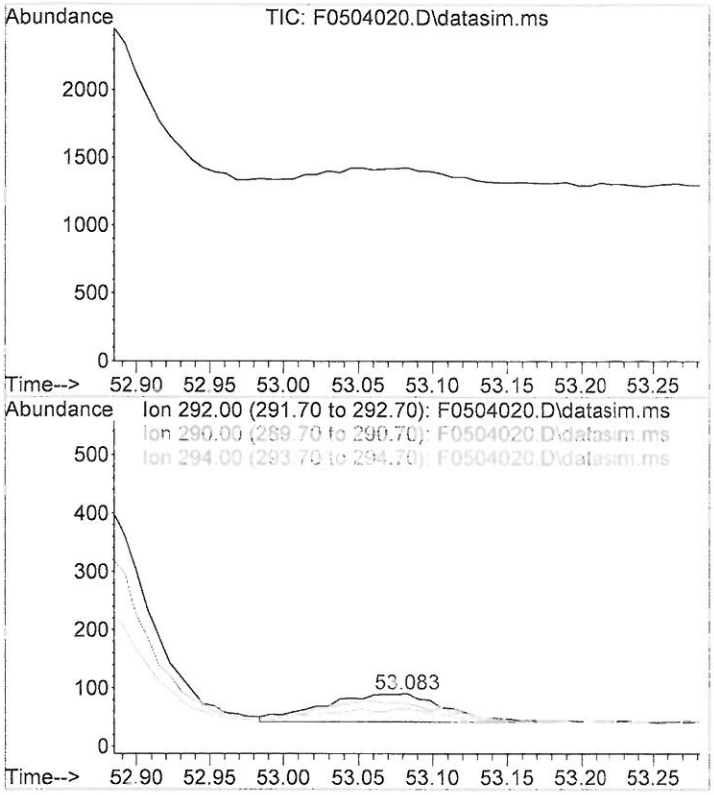
Ion	Ratio	Lower	Upper
292	100		
290	78.4	59.6	99.6
294	48.5	27.9	67.9



#48
CL4-BZ#47/#65/#62
Concen: 4.58 ng/mL
RT: 52.854 min Scan# 6834
Delta R.T. -0.020 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 2796

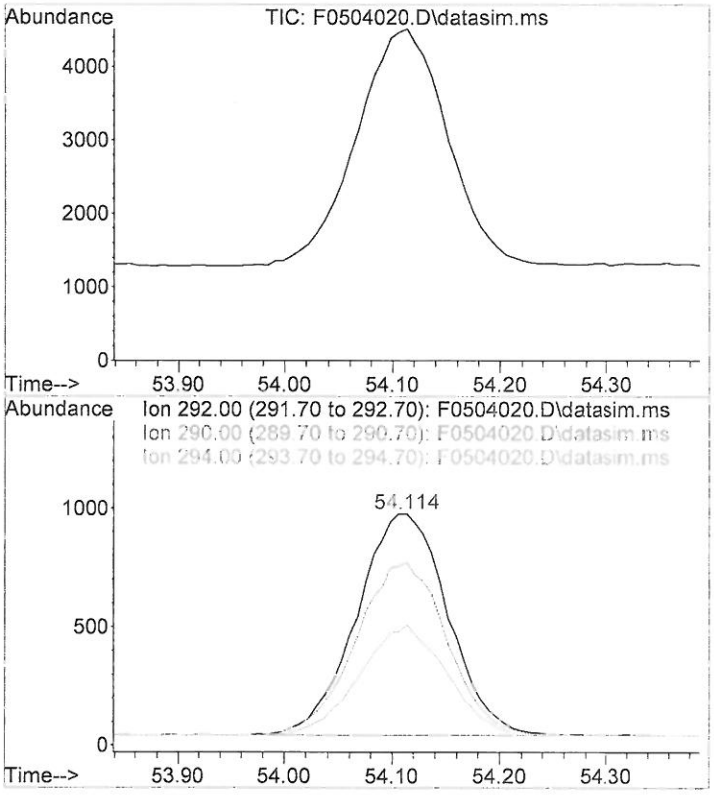
Ion	Ratio	Lower	Upper
292	100		
290	80.2	59.0	99.0
294	49.6	29.1	69.1



#49
CL4-BZ#75
Concen: 0.37 ng/mL
RT: 53.083 min Scan# 6864
Delta R.T. 0.018 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 274

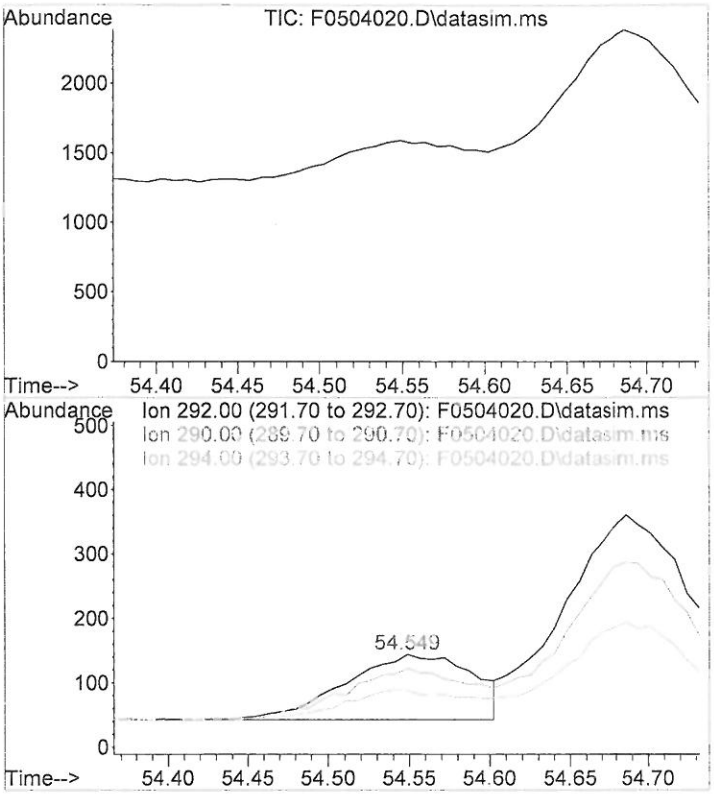
Ion	Ratio	Lower	Upper
292	100		
290	71.9	57.7	97.7
294	0.0	29.0	69.0#



#52
CL4-BZ#44
Concen: 13.61 ng/mL
RT: 54.114 min Scan# 6999
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 5470

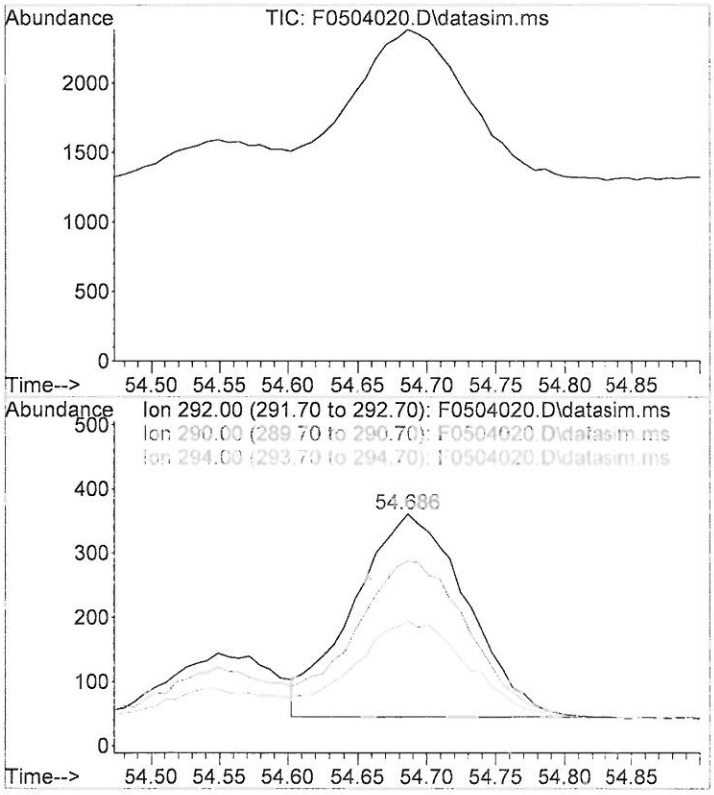
Ion	Ratio	Lower	Upper
292	100		
290	77.8	59.0	99.0
294	47.9	30.6	70.6



#53
CL4-BZ#59
Concen: 0.81 ng/mL
RT: 54.549 min Scan# 7056
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 551

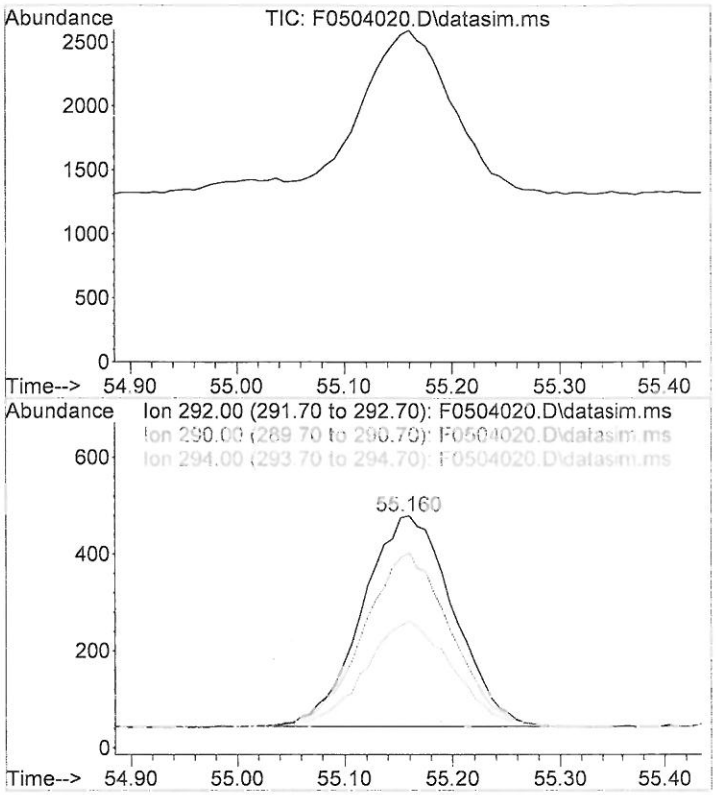
Ion	Ratio	Lower	Upper
292	100		
290	79.5	58.4	98.4
294	43.9	29.6	69.6



#54
CL4-BZ#42
Concen: 4.53 ng/mL
RT: 54.686 min Scan# 7074
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 1799

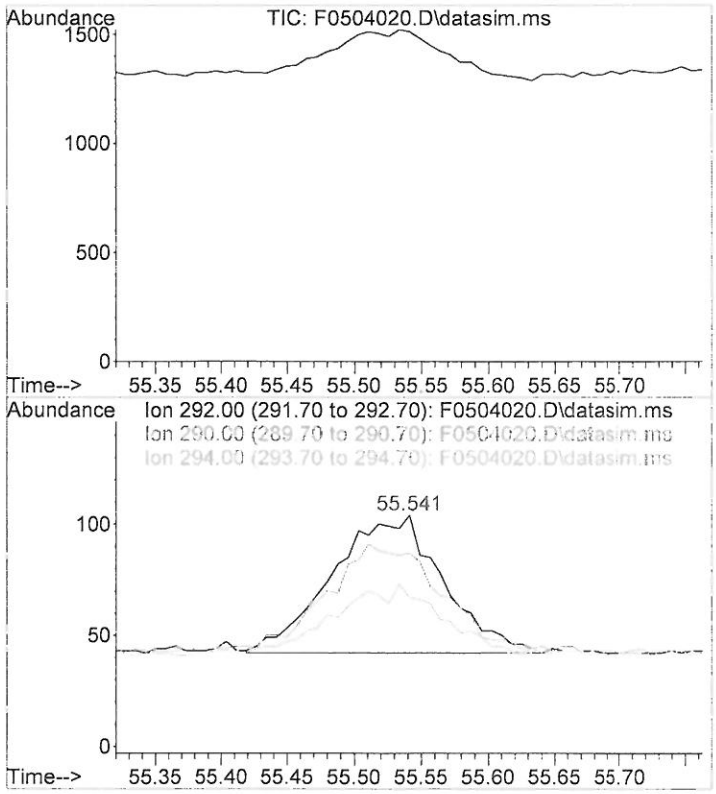
Ion	Ratio	Lower	Upper
292	100		
290	78.0	58.8	98.8
294	48.0	29.4	69.4



#55
CL4-BZ#71
Concen: 3.81 ng/mL
RT: 55.160 min Scan# 7136
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 2541

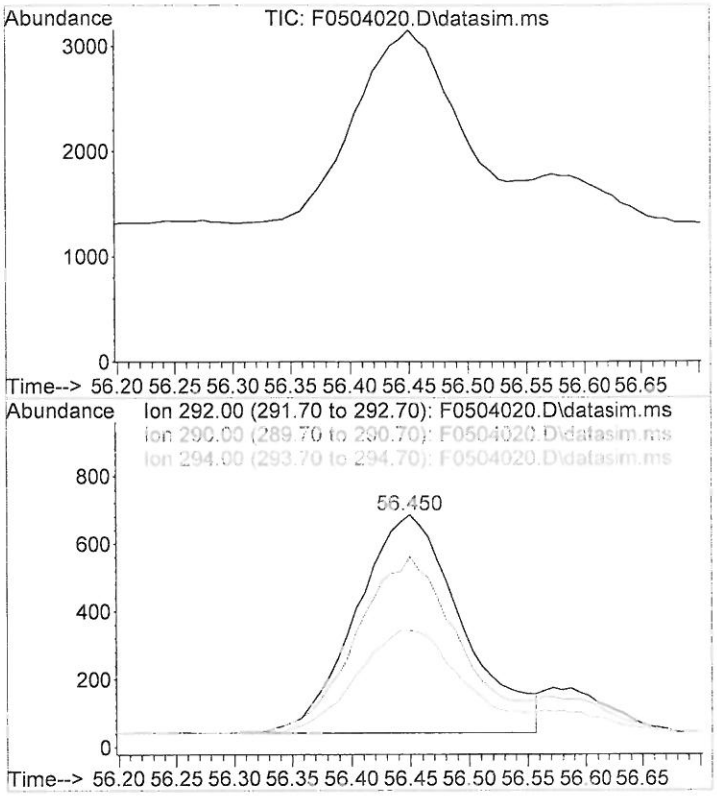
Ion	Ratio	Lower	Upper
292	100		
290	79.8	58.4	98.4
294	48.2	28.3	68.3



#57
CL4-BZ#41
Concen: 0.82 ng/mL
RT: 55.541 min Scan# 7186
Delta R.T. 0.018 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 353

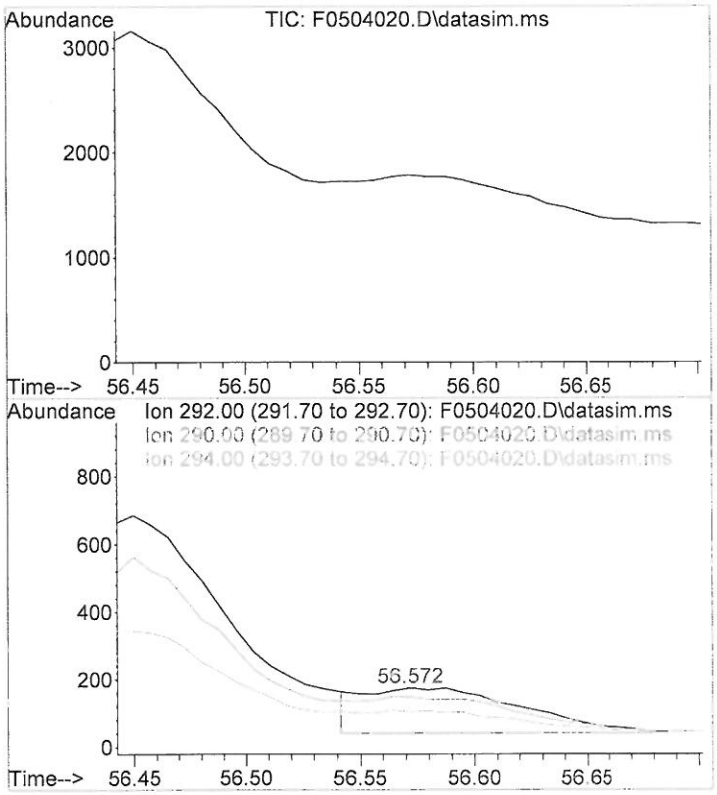
Ion	Ratio	Lower	Upper
292	100		
290	74.8	59.4	99.4
294	0.0	30.0	70.0#



#61
CL4-BZ#64
Concen: 6.26 ng/mL
RT: 56.450 min Scan# 7305
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 4000

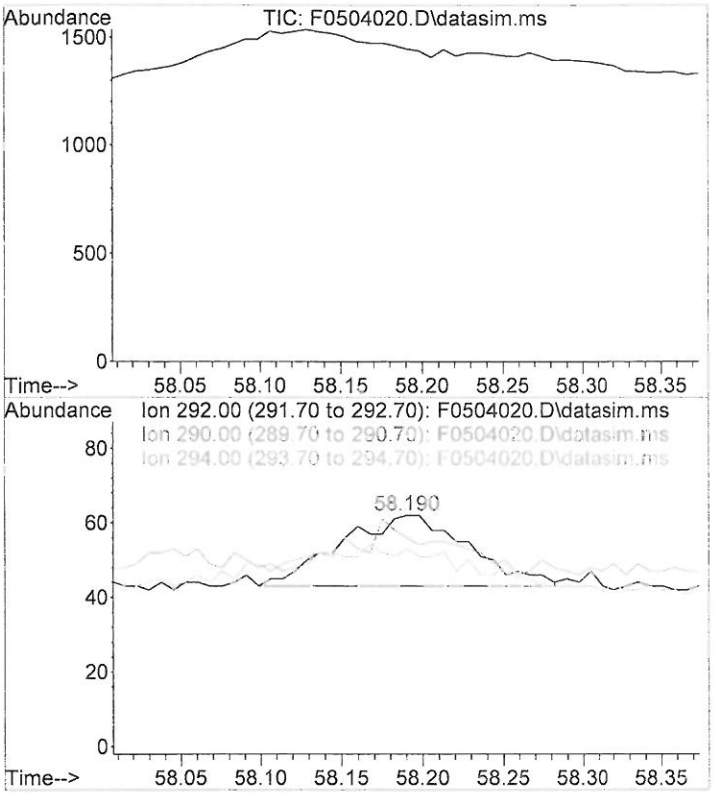
Ion	Ratio	Lower	Upper
292	100		
290	77.3	58.3	98.3
294	47.3	27.8	67.8



#62
CL4-BZ#40/#68
Concen: 1.24 ng/mL m
RT: 56.572 min Scan# 7321
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 644

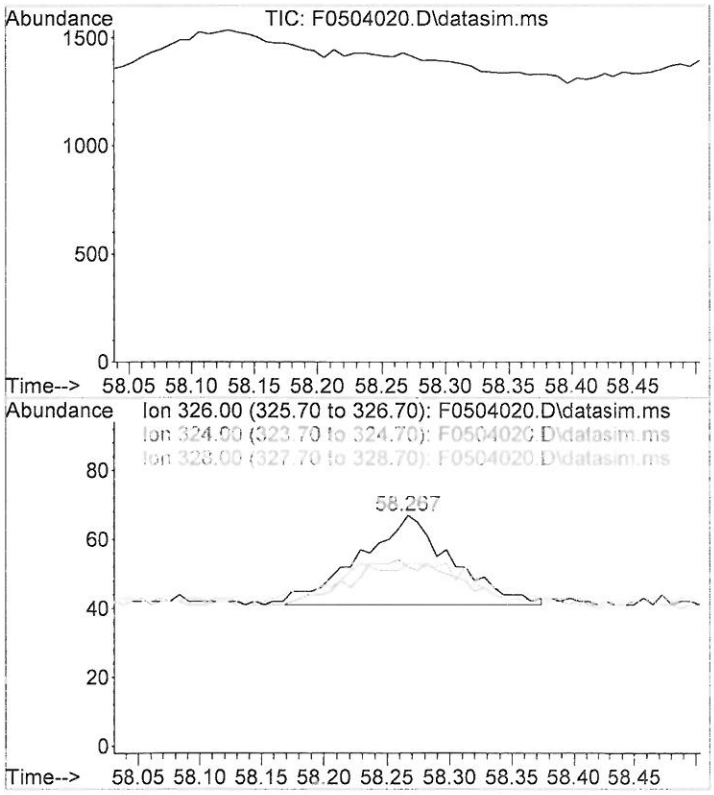
Ion	Ratio	Lower	Upper
292	100		
290	0.0	59.0	99.0#
294	0.0	29.4	69.4#



#67
CL4-BZ#67/#58
Concen: 0.15 ng/mL
RT: 58.190 min Scan# 7533
Delta R.T. 0.003 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 105

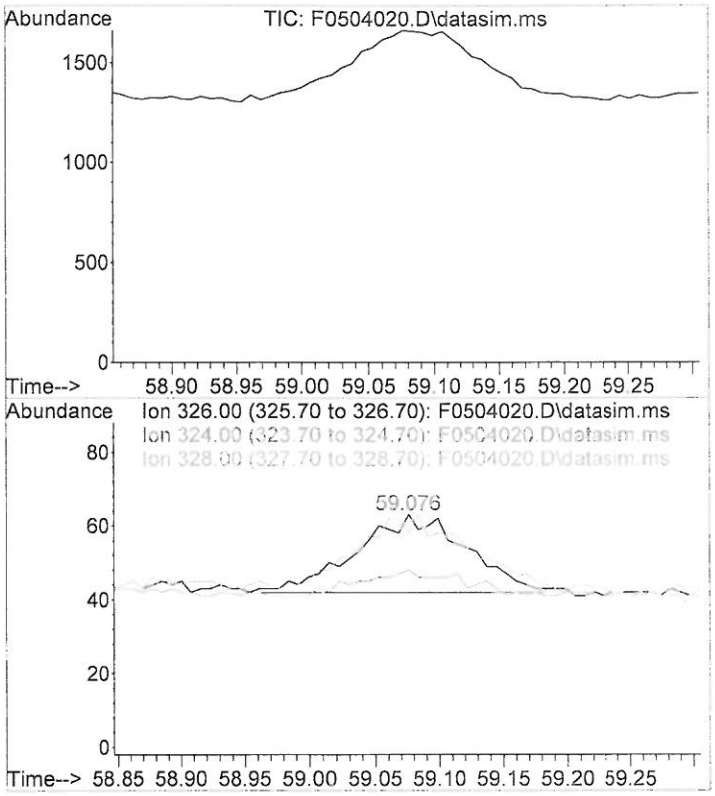
Ion	Ratio	Lower	Upper
292	100		
290	0.0	57.9	97.9#
294	0.0	28.4	68.4#



#68
CL5-BZ#102
Concen: 0.34 ng/mL
RT: 58.267 min Scan# 7543
Delta R.T. 0.010 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 135

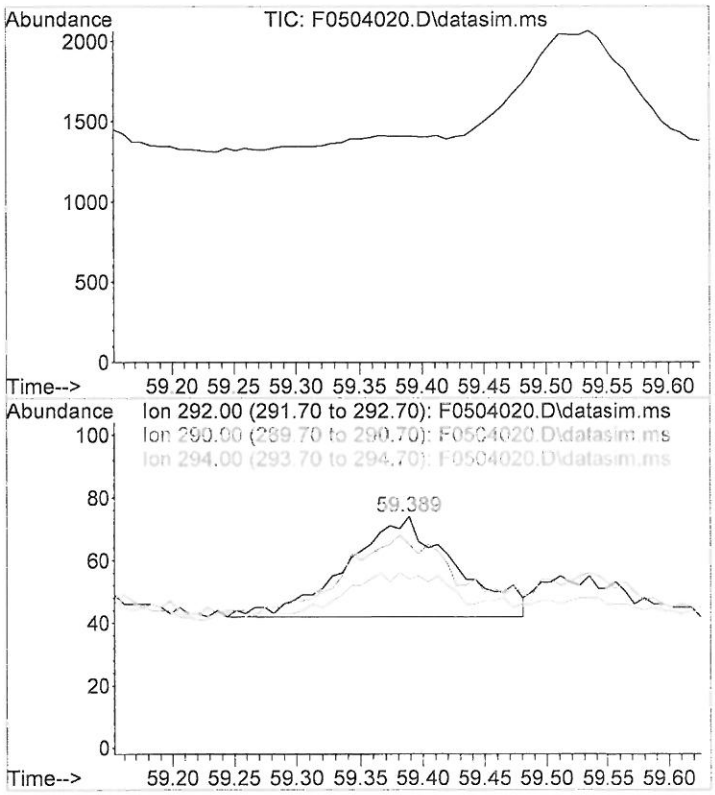
Ion	Ratio	Lower	Upper
326	100		
324	0.0	44.9	84.9#
328	0.0	44.7	84.7#



#71
CL5-BZ#93
Concen: 0.34 ng/mL
RT: 59.076 min Scan# 7649
Delta R.T. 0.018 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 123

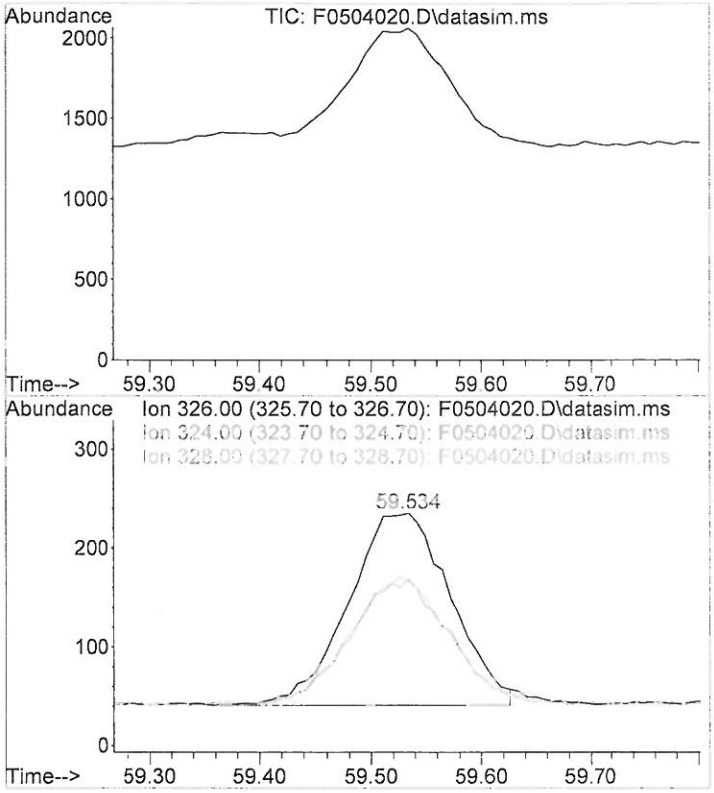
Ion	Ratio	Lower	Upper
326	100		
324	0.0	45.7	85.7#
328	93.5	46.6	86.6#



#73
CL4-BZ#63
Concen: 0.26 ng/mL
RT: 59.389 min Scan# 7690
Delta R.T. 0.033 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 191

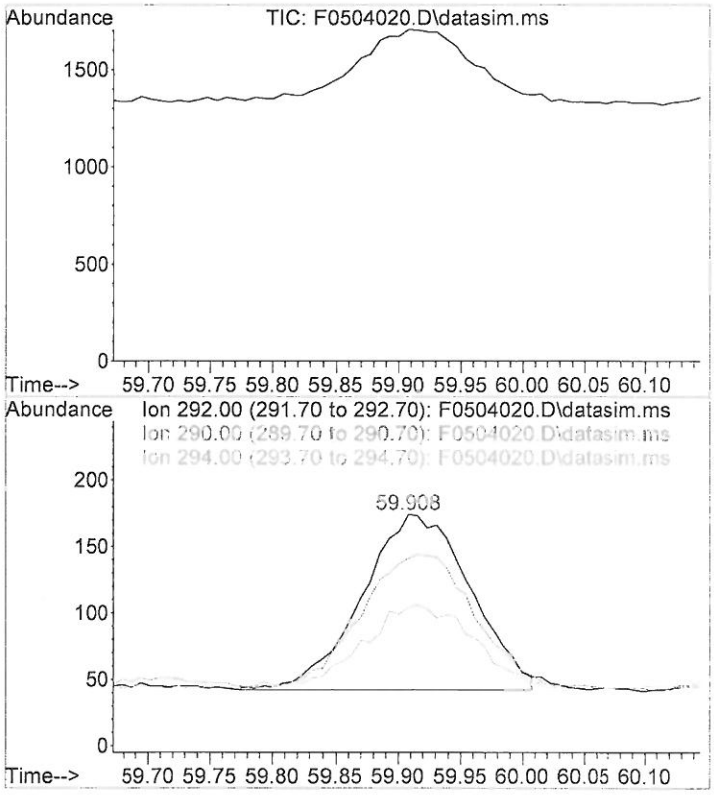
Ion	Ratio	Lower	Upper
292	100		
290	82.7	59.0	99.0
294	0.0	29.4	69.4#



#74
CL5-BZ#88/#95
Concen: 2.85 ng/mL
RT: 59.534 min Scan# 7709
Delta R.T. 0.041 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 1239

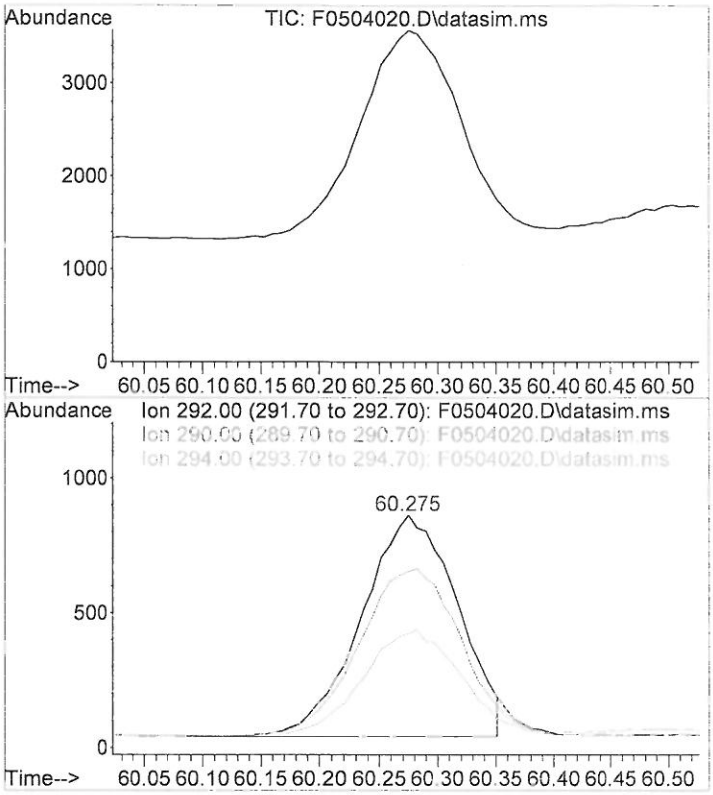
Ion	Ratio	Lower	Upper
326	100		
324	65.1	44.0	84.0
328	62.4	43.4	83.4



#76
CL4-BZ#74
Concen: 1.17 ng/mL
RT: 59.908 min Scan# 7758
Delta R.T. 0.033 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 796

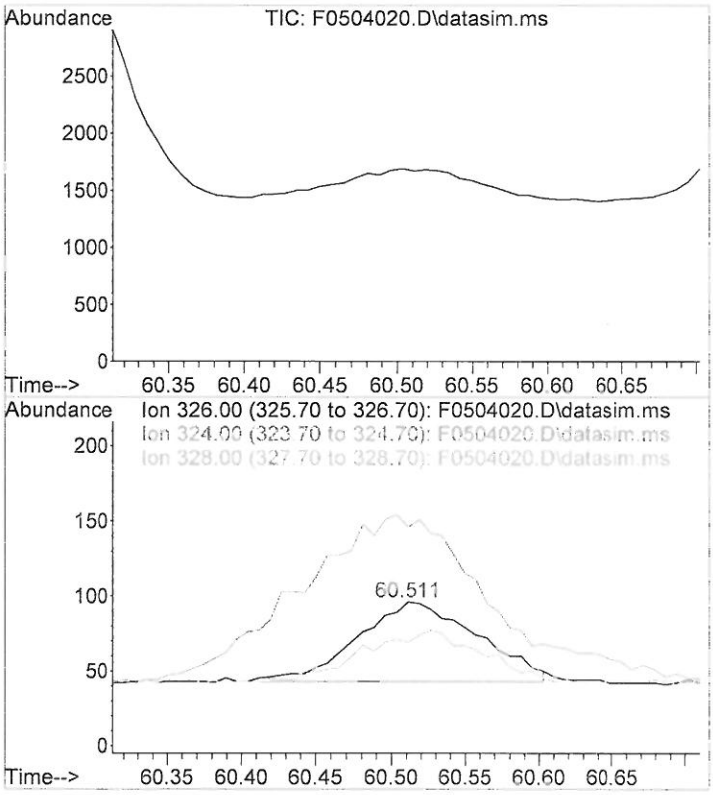
Ion	Ratio	Lower	Upper
292	100		
290	76.3	58.9	98.9
294	48.0	28.6	68.6



#78
CL4-BZ#70
Concen: 5.91 ng/mL
RT: 60.275 min Scan# 7806
Delta R.T. 0.056 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 4665

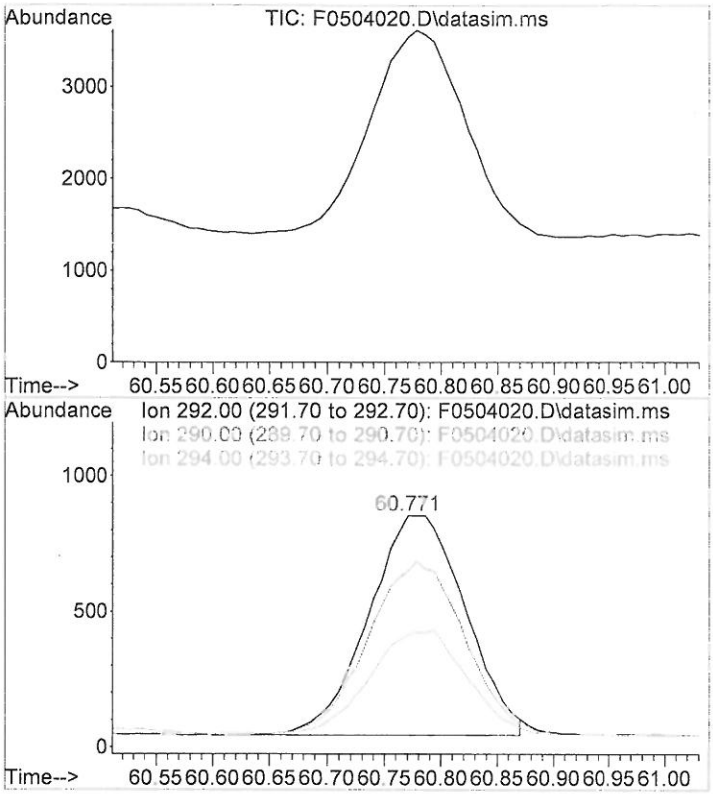
Ion	Ratio	Lower	Upper
292	100		
290	79.0	70.2	110.2
294	47.4	27.2	67.2



#79
CL5-BZ#91
Concen: 0.75 ng/mL
RT: 60.511 min Scan# 7837
Delta R.T. 0.041 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 296

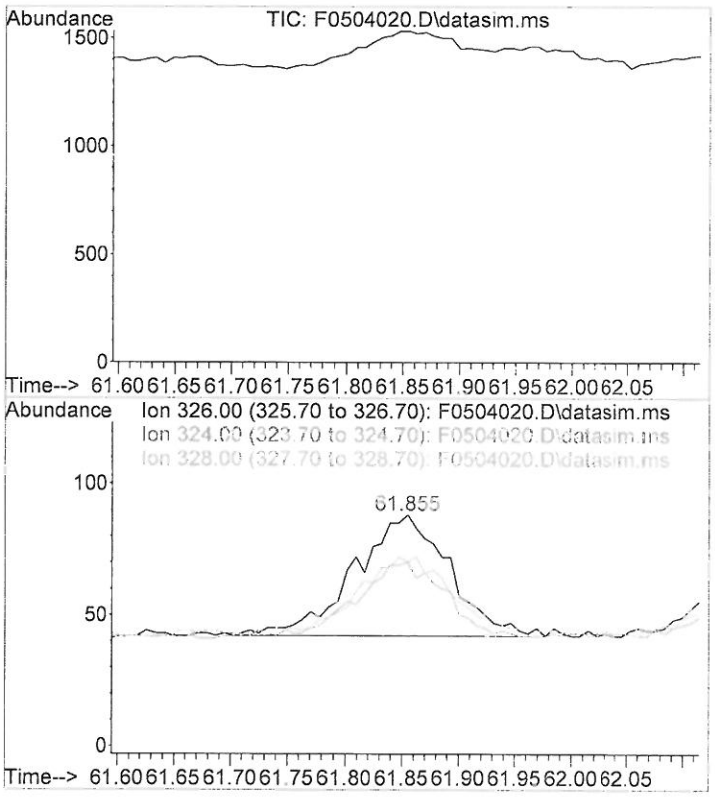
Ion	Ratio	Lower	Upper
326	100		
324	307.1	43.6	83.6#
328	61.5	42.3	82.3



#80
CL4-BZ#66
Concen: 6.62 ng/mL
RT: 60.771 min Scan# 7871
Delta R.T. 0.033 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 4804

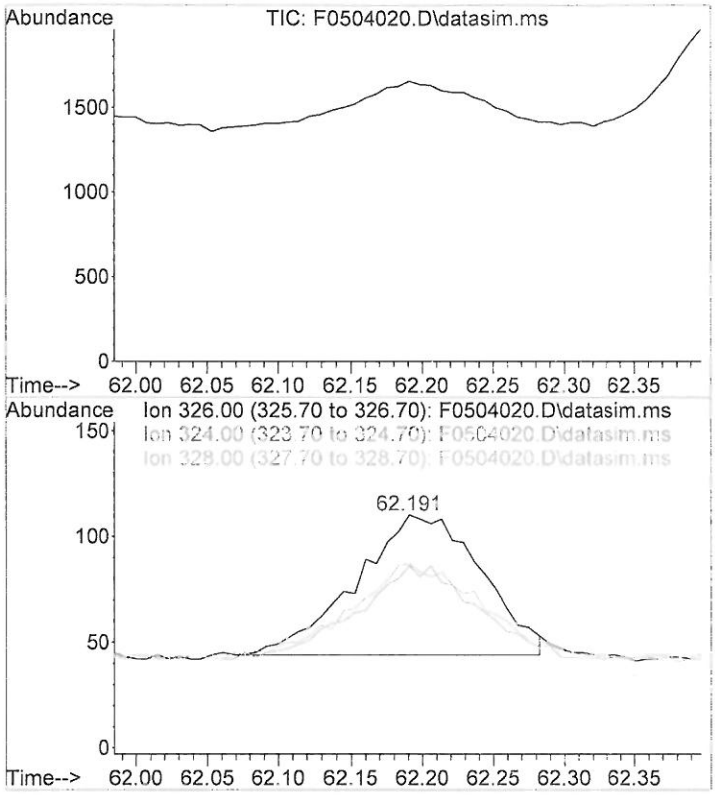
Ion	Ratio	Lower	Upper
292	100		
290	78.3	58.4	98.4
294	46.5	29.1	69.1



#83
CL5-BZ#92
Concen: 0.61 ng/mL
RT: 61.855 min Scan# 8013
Delta R.T. 0.018 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 266

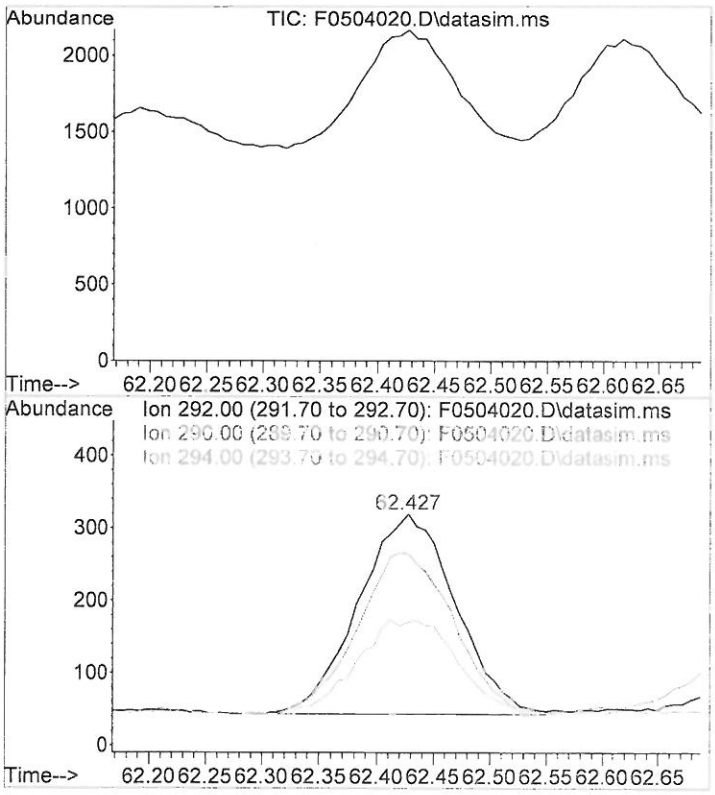
Ion	Ratio	Lower	Upper
326	100		
324	55.3	45.3	85.3
328	67.7	45.4	85.4



#84
CL5-BZ#89/#84
Concen: 1.03 ng/mL
RT: 62.191 min Scan# 8057
Delta R.T. 0.041 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 401

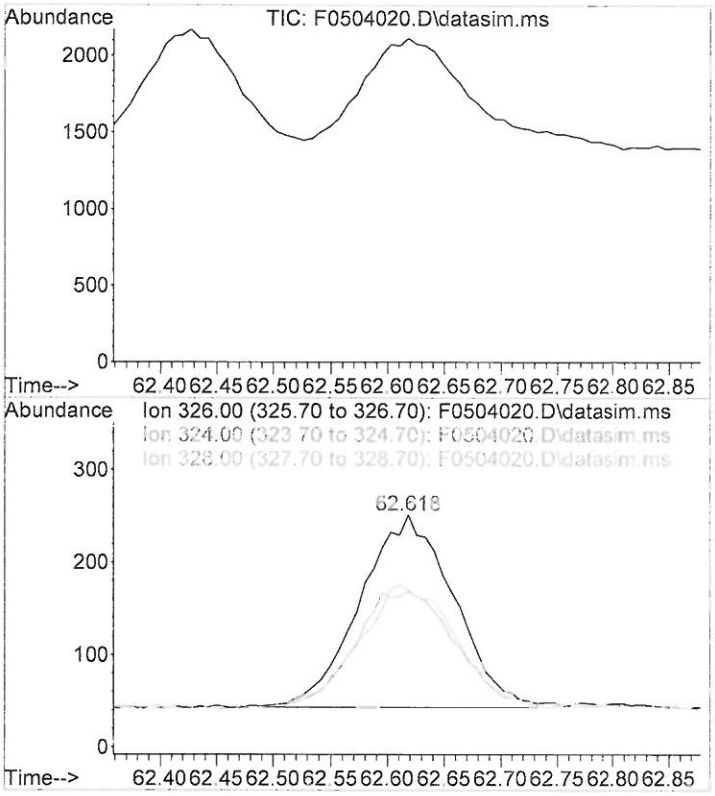
Ion	Ratio	Lower	Upper
326	100		
324	63.8	45.2	85.2
328	69.8	45.1	85.1



#85
CL4-BZ#56
Concen: 2.30 ng/mL
RT: 62.427 min Scan# 8088
Delta R.T. 0.010 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:292 Resp: 1630

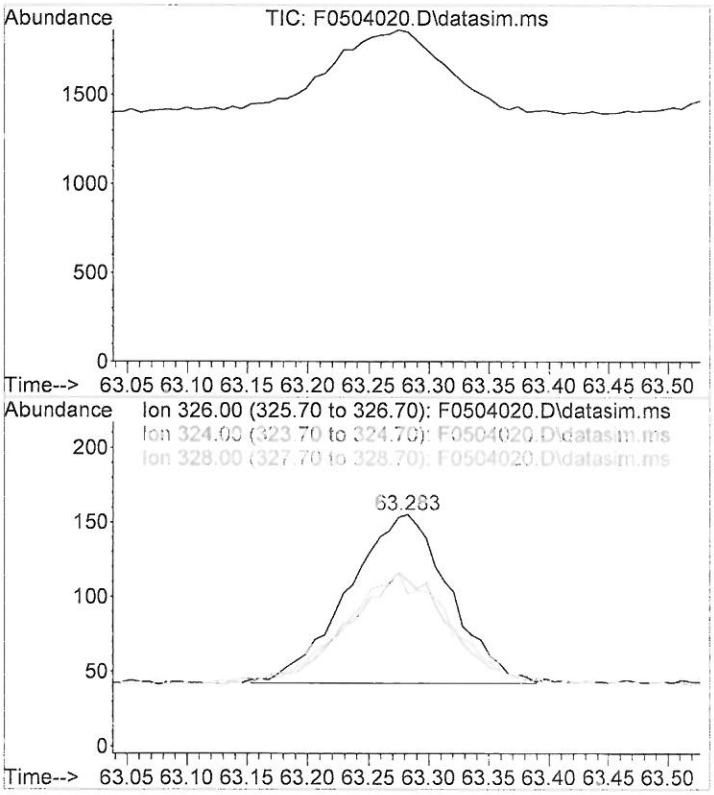
Ion	Ratio	Lower	Upper
292	100		
290	80.6	60.7	100.7
294	48.9	30.4	70.4



#86
CL5-BZ#90/#101
Concen: 2.54 ng/mL
RT: 62.618 min Scan# 8113
Delta R.T. 0.010 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 1188

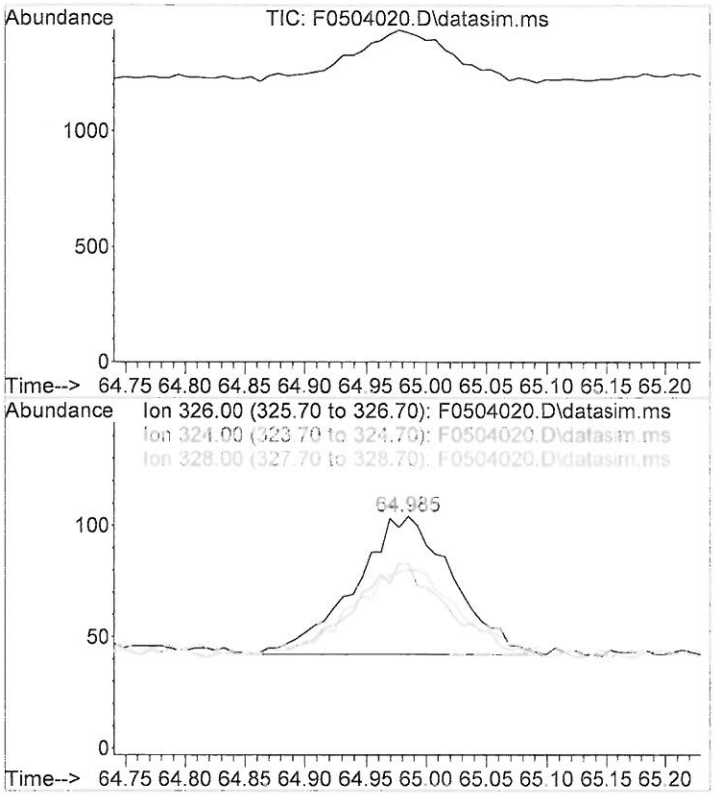
Ion	Ratio	Lower	Upper
326	100		
324	65.8	44.7	84.7
328	65.2	45.9	85.9



#89
CL5-BZ#99
Concen: 1.30 ng/mL
RT: 63.282 min Scan# 8200
Delta R.T. 0.018 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 660

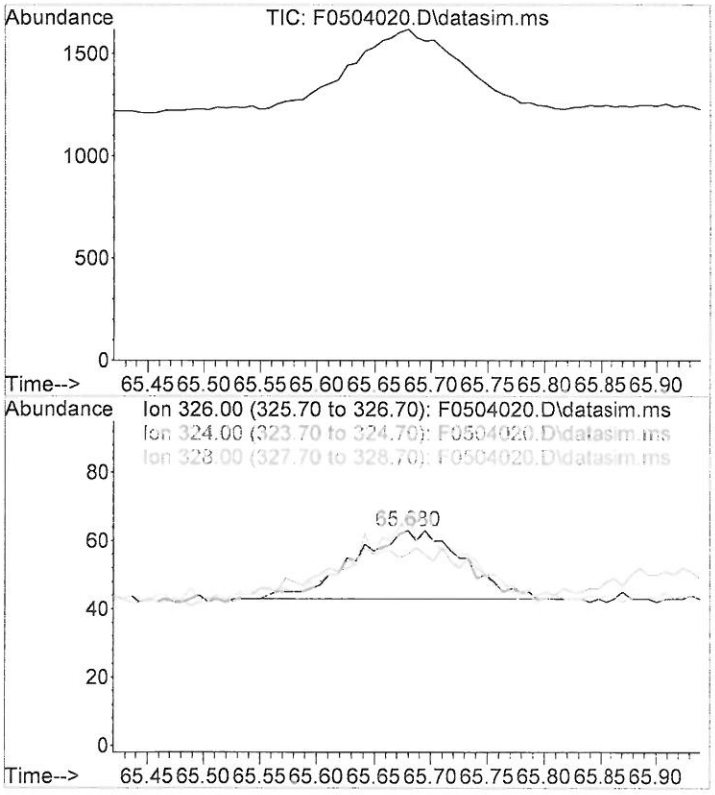
Ion	Ratio	Lower	Upper
326	100		
324	66.2	48.7	88.7
328	65.0	45.6	85.6



#96
CL5-BZ#97
Concen: 0.92 ng/mL
RT: 64.985 min Scan# 8423
Delta R.T. 0.010 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 350

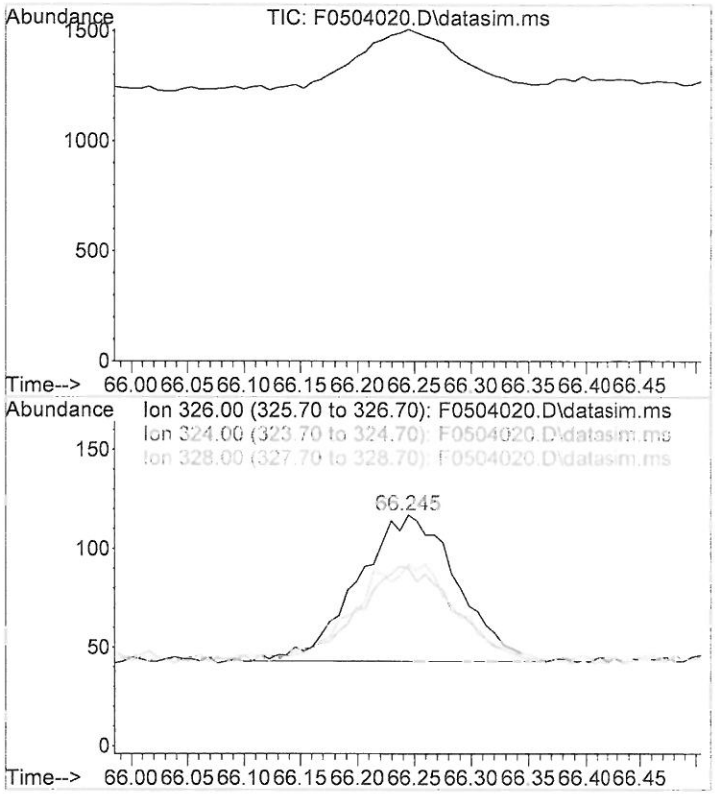
Ion	Ratio	Lower	Upper
326	100		
324	66.0	43.4	83.4
328	62.6	43.5	83.5



#99
CL5-BZ#116
Concen: 0.23 ng/mL
RT: 65.680 min Scan# 8514
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 132

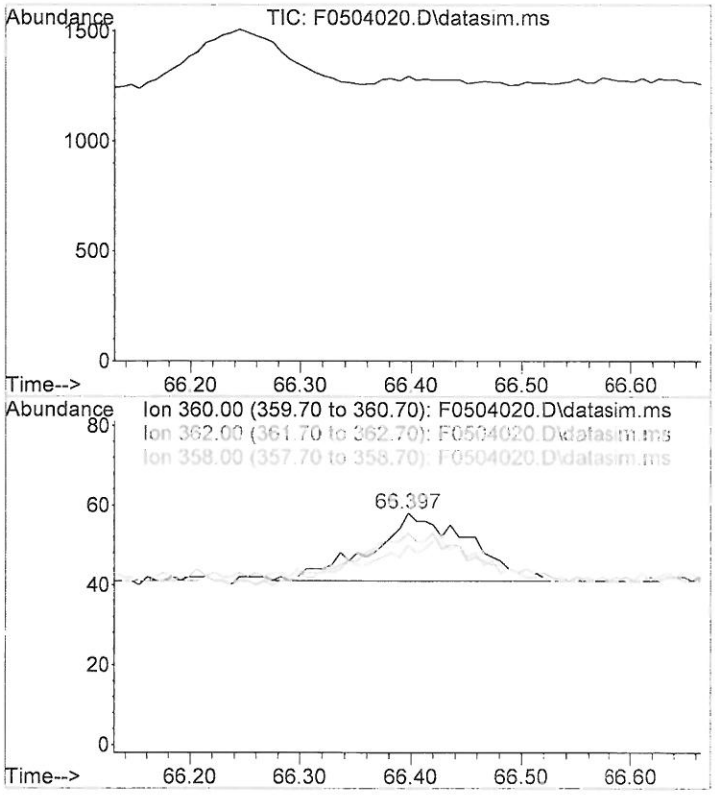
Ion	Ratio	Lower	Upper
326	100		
324	0.0	44.6	84.6#
328	118.9	46.0	86.0#



#100
CL5-BZ#87
Concen: 1.03 ng/mL
RT: 66.245 min Scan# 8588
Delta R.T. -0.005 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 447

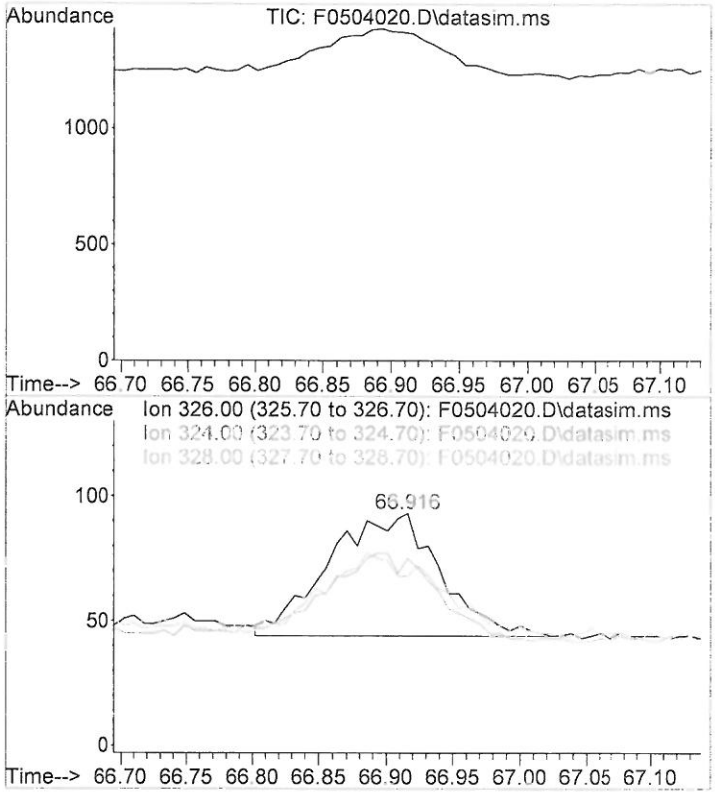
Ion	Ratio	Lower	Upper
326	100		
324	63.3	43.5	83.5
328	27.3	45.7	85.7#



#102
CL6-BZ#154/#136
Concen: 0.23 ng/mL
RT: 66.397 min Scan# 8608
Delta R.T. -0.013 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:360 Resp: 105

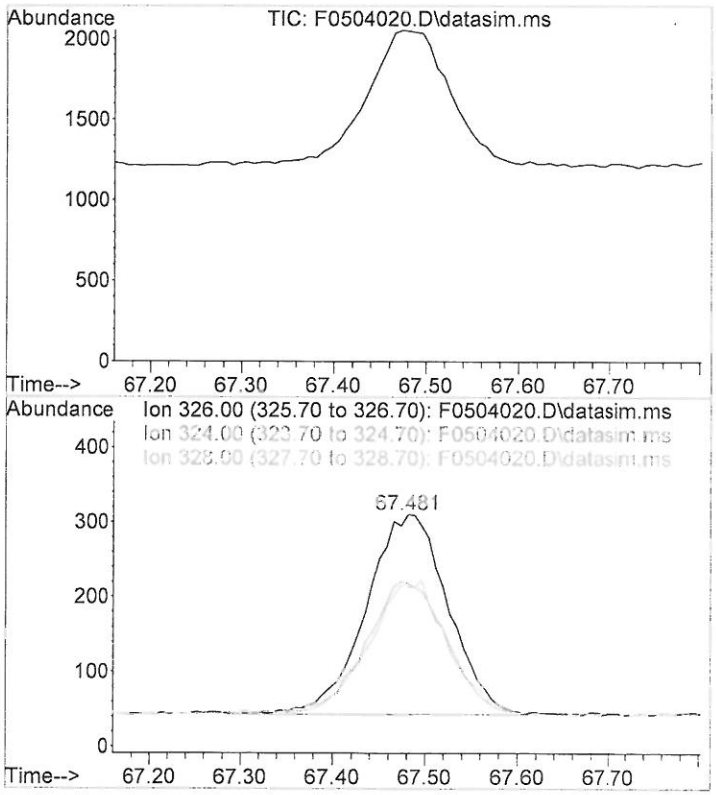
Ion	Ratio	Lower	Upper
360	100		
362	0.0	57.8	97.8#
358	0.0	33.8	73.8#



#104
CL5-BZ#85
Concen: 0.64 ng/mL
RT: 66.916 min Scan# 8676
Delta R.T. 0.025 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 283

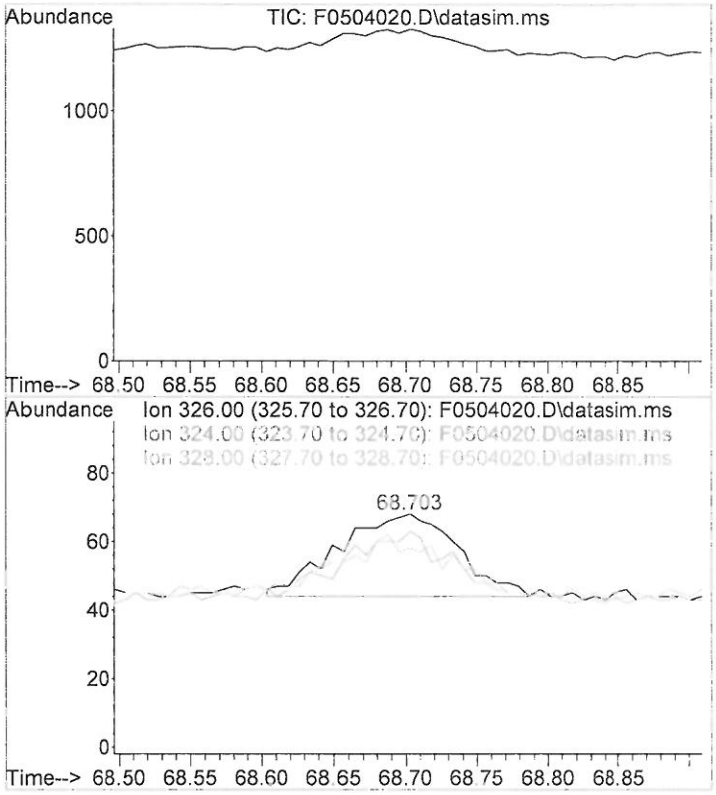
Ion	Ratio	Lower	Upper
326	100		
324	73.9	45.6	85.6
328	44.9	45.6	85.6#



#105
CL5-BZ#120/#110
Concen: 2.65 ng/mL
RT: 67.481 min Scan# 8750
Delta R.T. 0.087 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 1646

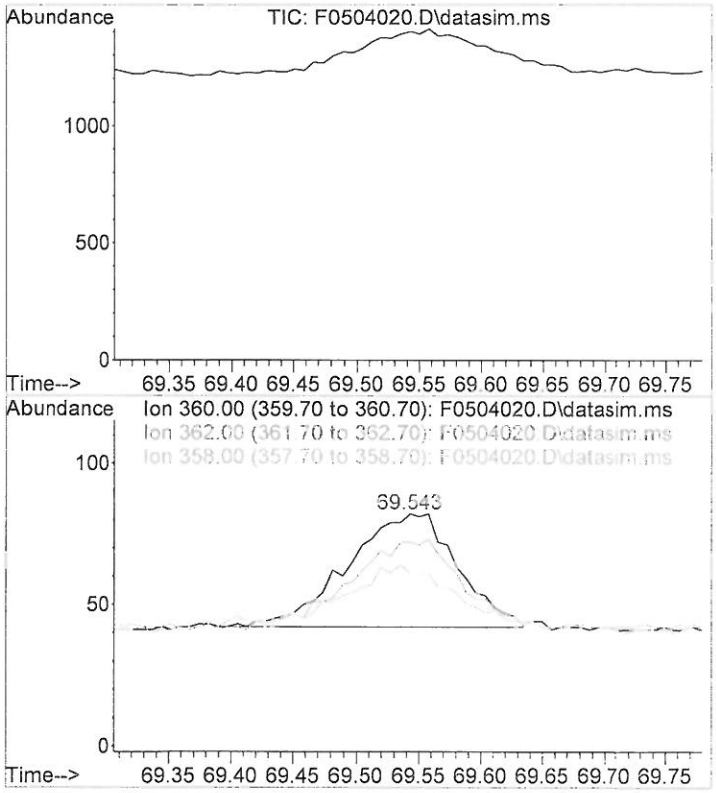
Ion	Ratio	Lower	Upper
326	100		
324	64.3	45.5	85.5
328	64.7	45.3	85.3



#109
CL5-BZ#82
Concen: 0.39 ng/mL
RT: 68.703 min Scan# 8910
Delta R.T. 0.010 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 139

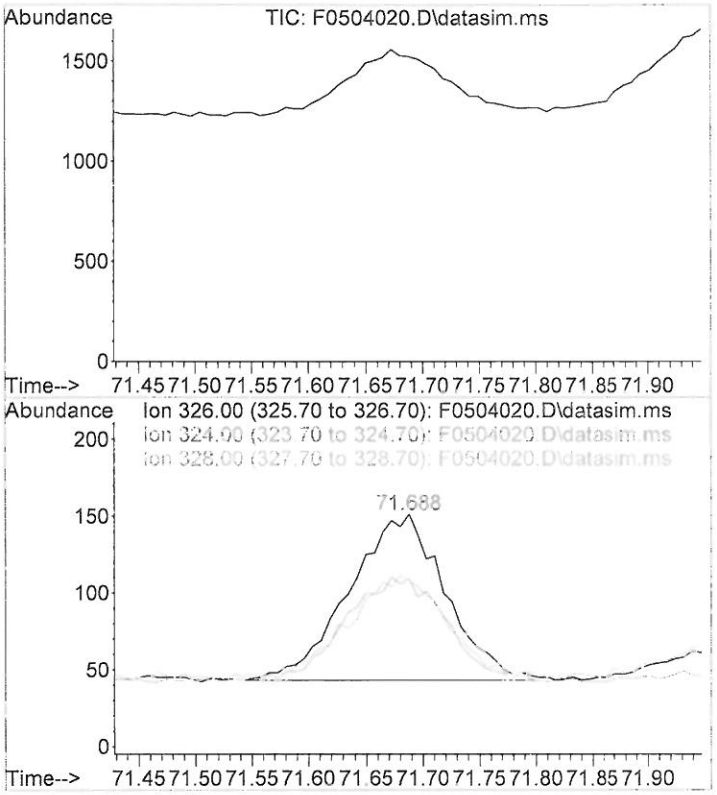
Ion	Ratio	Lower	Upper
326	100		
324	86.3	44.8	84.8#
328	0.0	44.2	84.2#



#111
CL6-BZ#147/#149
Concen: 0.69 ng/mL
RT: 69.543 min Scan# 9020
Delta R.T. 0.033 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:360 Resp: 244

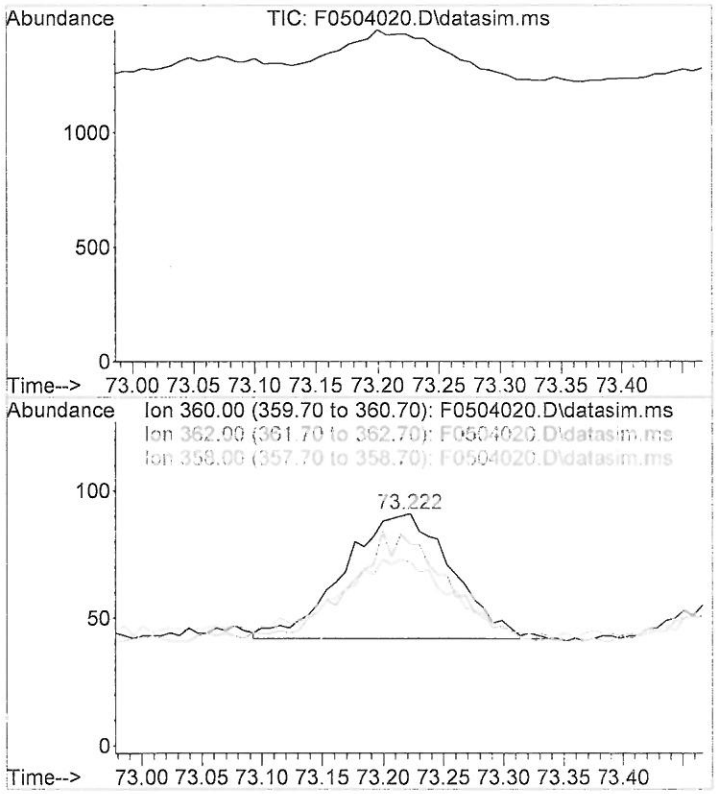
Ion	Ratio	Lower	Upper
360	100		
362	75.8	56.7	96.7
358	47.5	31.4	71.4



#123
CL5-BZ#118
Concen: 1.15 ng/mL
RT: 71.688 min Scan# 9301
Delta R.T. 0.018 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 632

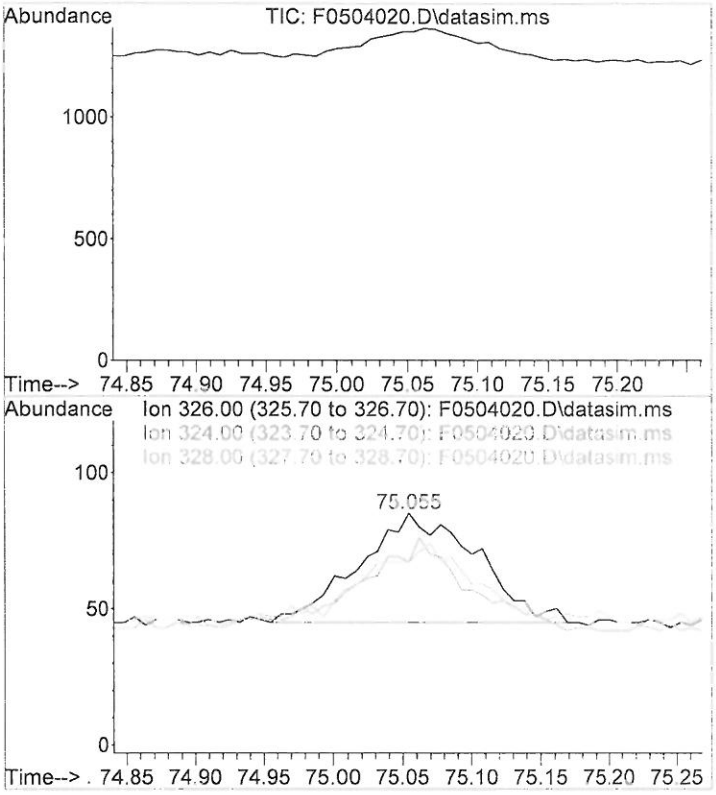
Ion	Ratio	Lower	Upper
326	100		
324	64.6	44.7	84.7
328	66.5	44.3	84.3



#131
CL6-BZ#153
Concen: 0.77 ng/mL
RT: 73.222 min Scan# 9502
Delta R.T. 0.010 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:360 Resp: 303

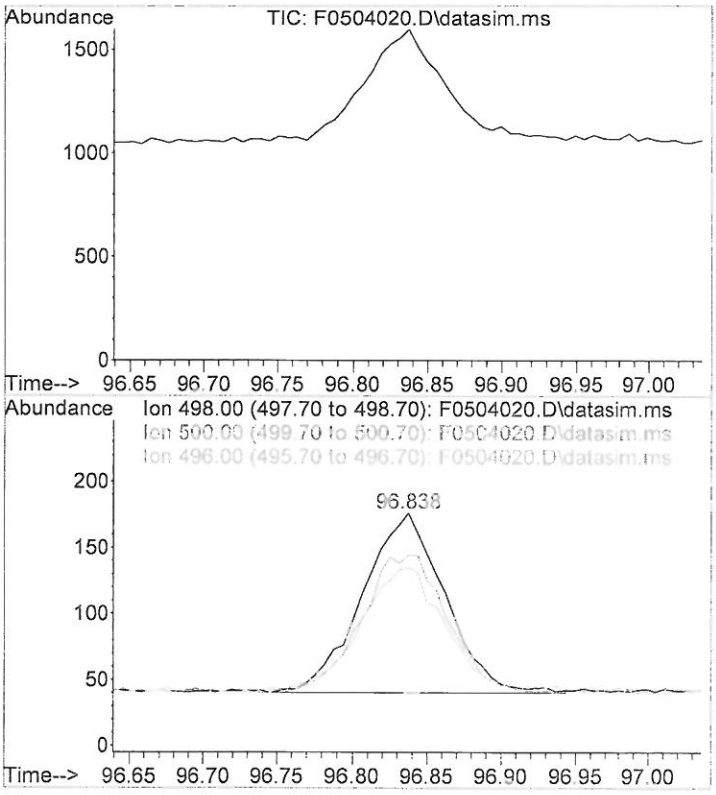
Ion	Ratio	Lower	Upper
360	100		
362	79.2	58.3	98.3
358	63.7	32.7	72.7



#136
CL5-BZ#105
Concen: 0.32 ng/mL
RT: 75.055 min Scan# 9742
Delta R.T. 0.010 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:326 Resp: 234

Ion	Ratio	Lower	Upper
326	100		
324	76.1	48.4	88.4
328	58.5	43.4	83.4



#185
CL10-BZ#209
Concen: 2.35 ng/mL
RT: 96.838 min Scan# 12894
Delta R.T. 0.009 min
Lab File: F0504020.D
Acq: 5 May 2017 9:10 pm

Tgt Ion:498 Resp: 524

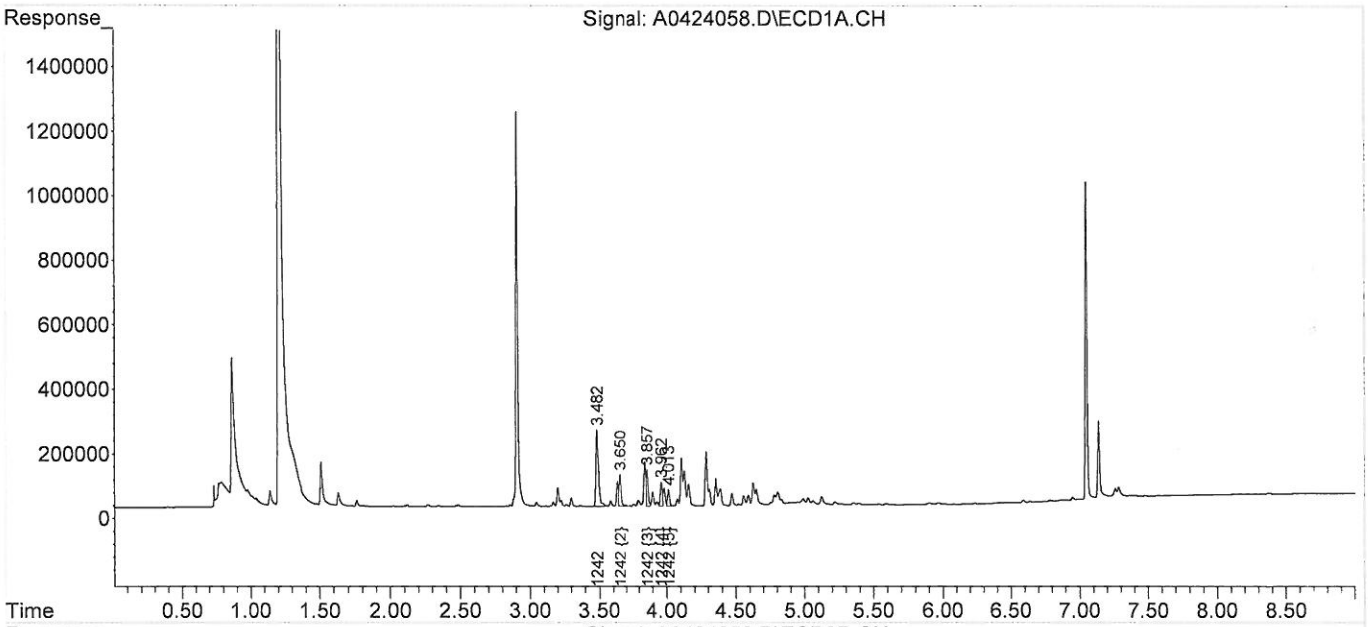
Ion	Ratio	Lower	Upper
498	100		
500	79.6	64.3	104.3
496	68.5	50.9	90.9

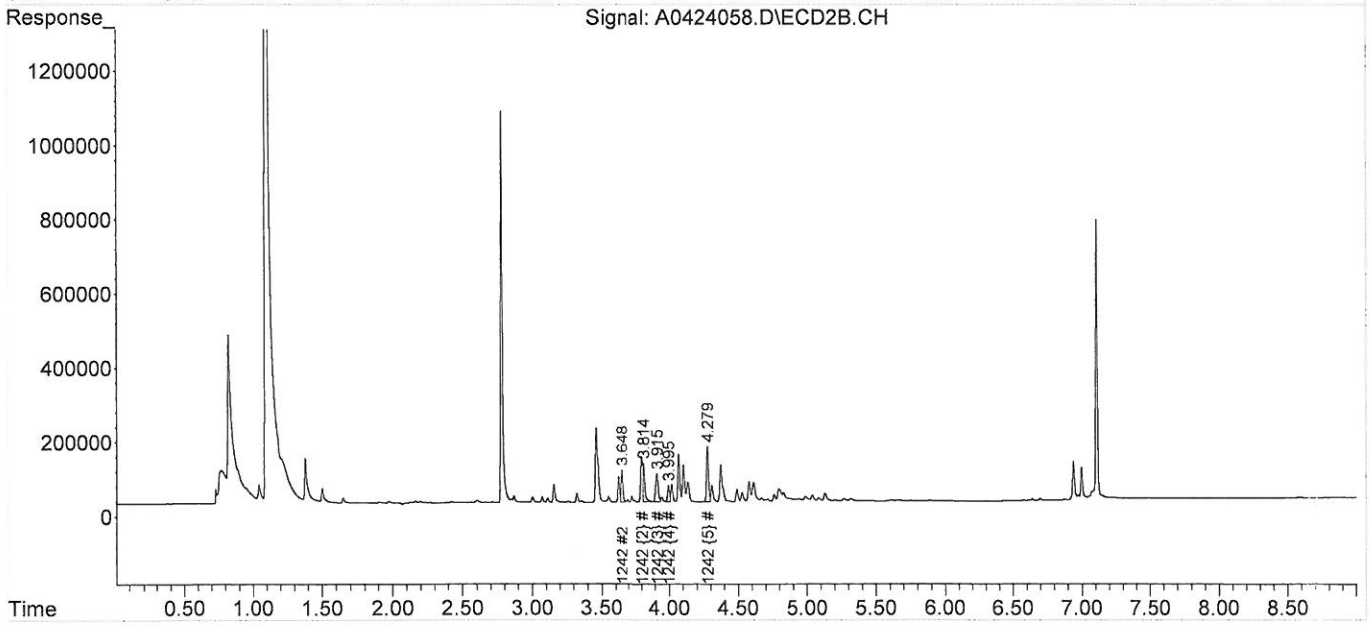
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424058.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Apr 2017 10:40 am
Operator : JMB
Sample : 17D0859-01@10X Inst : HP G1530A
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 25 12:18:26 2017
DataAcq Meth:PCB02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1242-041917C.M
Quant Title : 1242 04/19/17 03/09/17 ICAL 1700139
QLast Update : Thu Apr 20 12:27:17 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



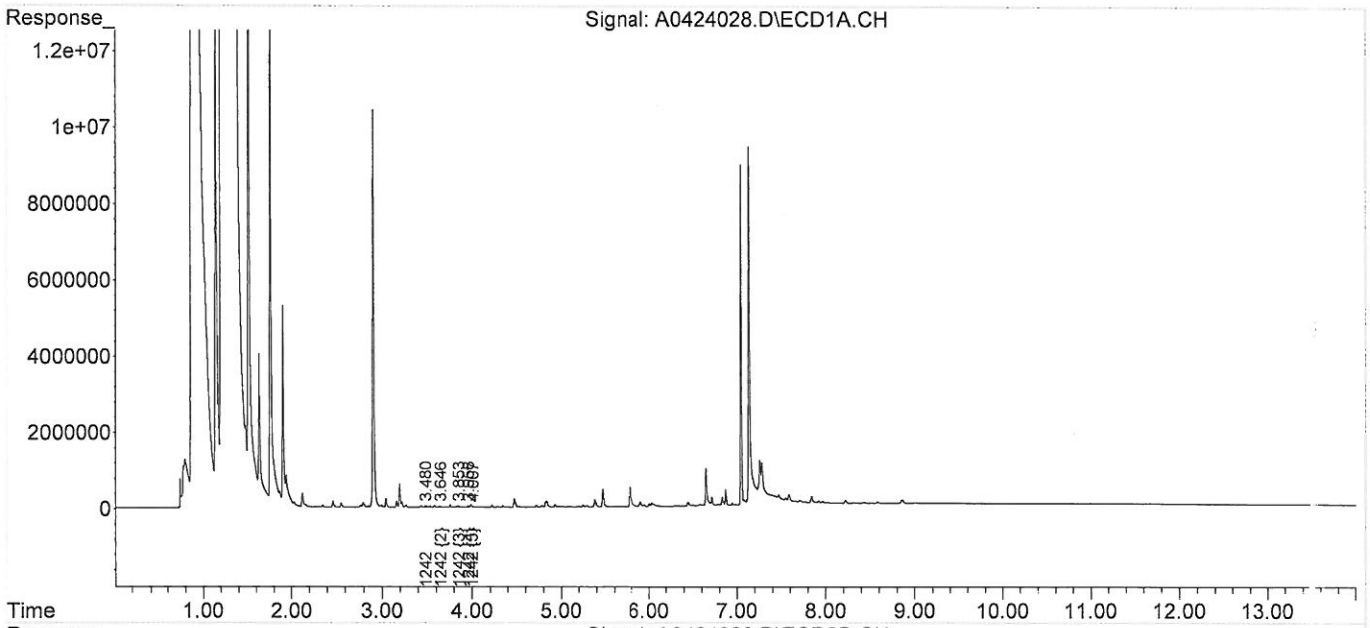


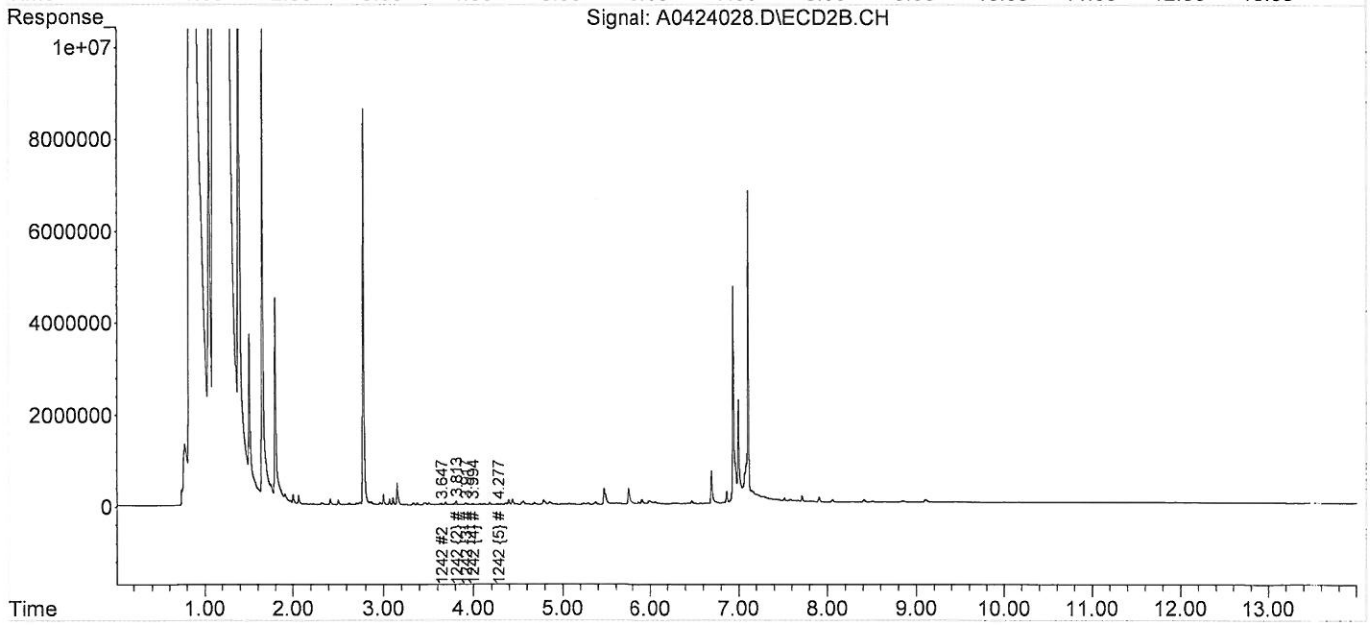
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Apr 2017 4:55 pm
Operator : JMB
Sample : 17D0859-02@TBA Inst : HP G1530A
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 25 13:04:08 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1242-041917C.M
Quant Title : 1242 04/19/17 03/09/17 ICAL 1700139
QLast Update : Thu Apr 20 12:27:17 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



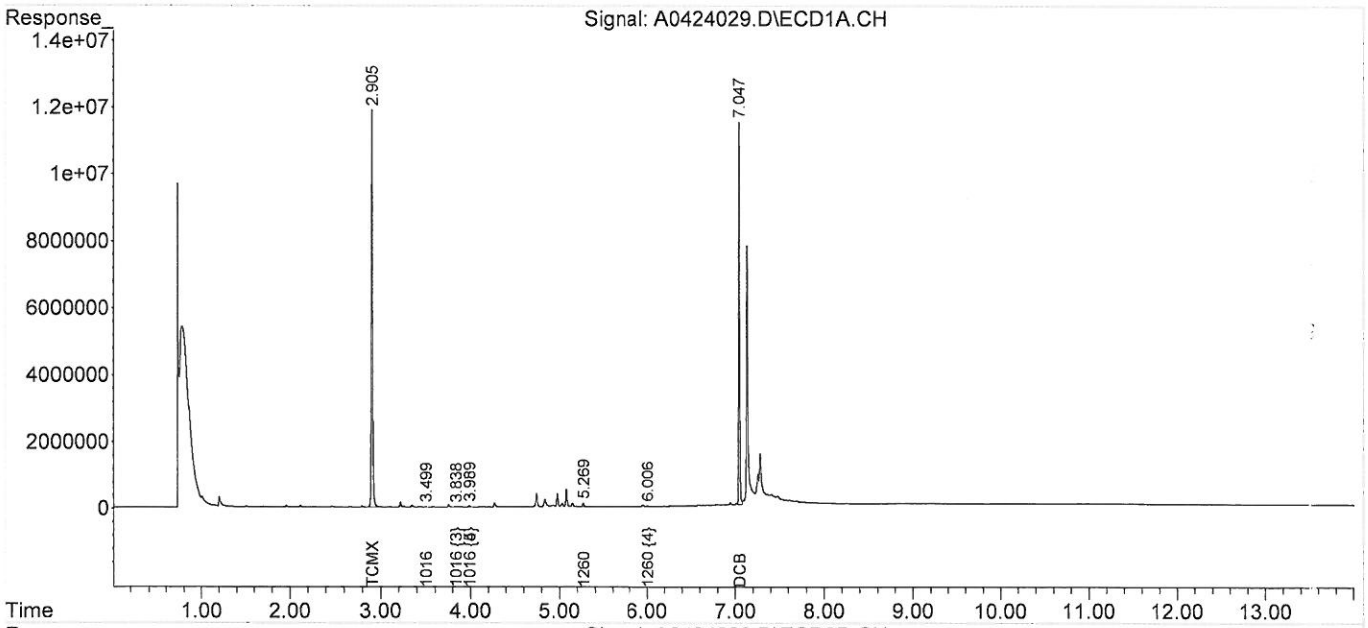


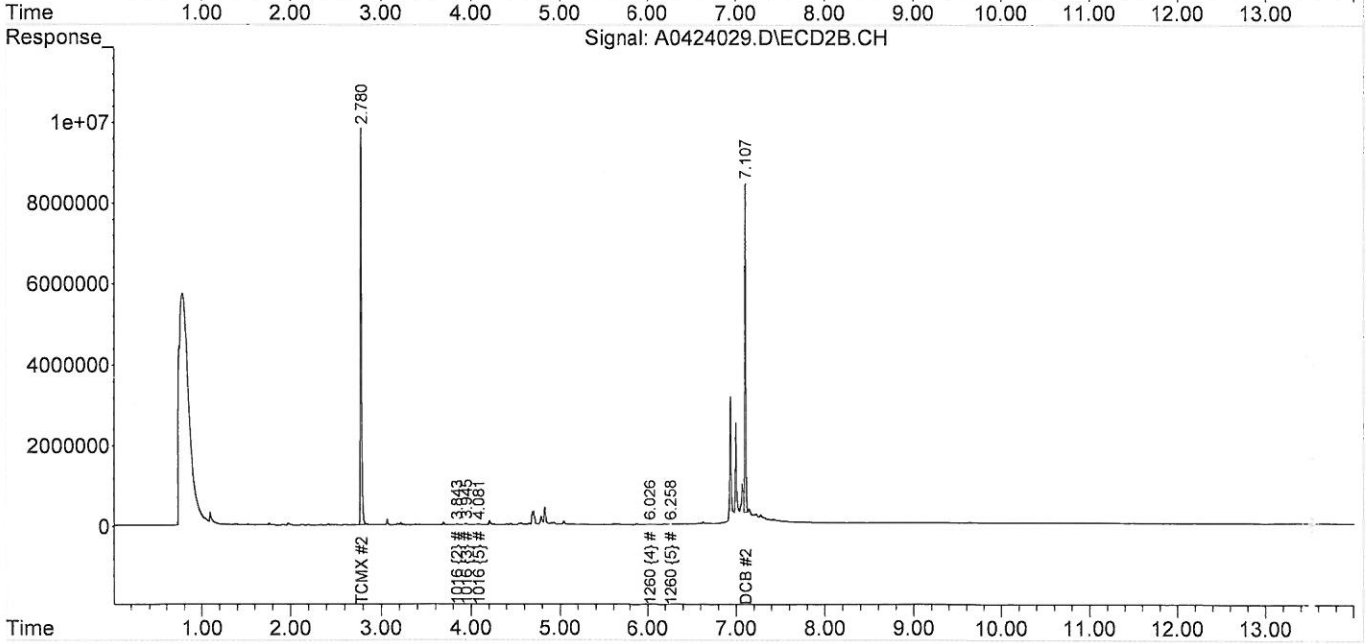
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Apr 2017 5:13 pm
Operator : JMB
Sample : 17D0859-03@TBA Inst : HP G1530A
Misc :
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 25 13:06:40 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-041917C.M
Quant Title : 1260/1016 04/19/17 03/10/17 ICAL 1700139
QLast Update : Thu Apr 20 12:17:44 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



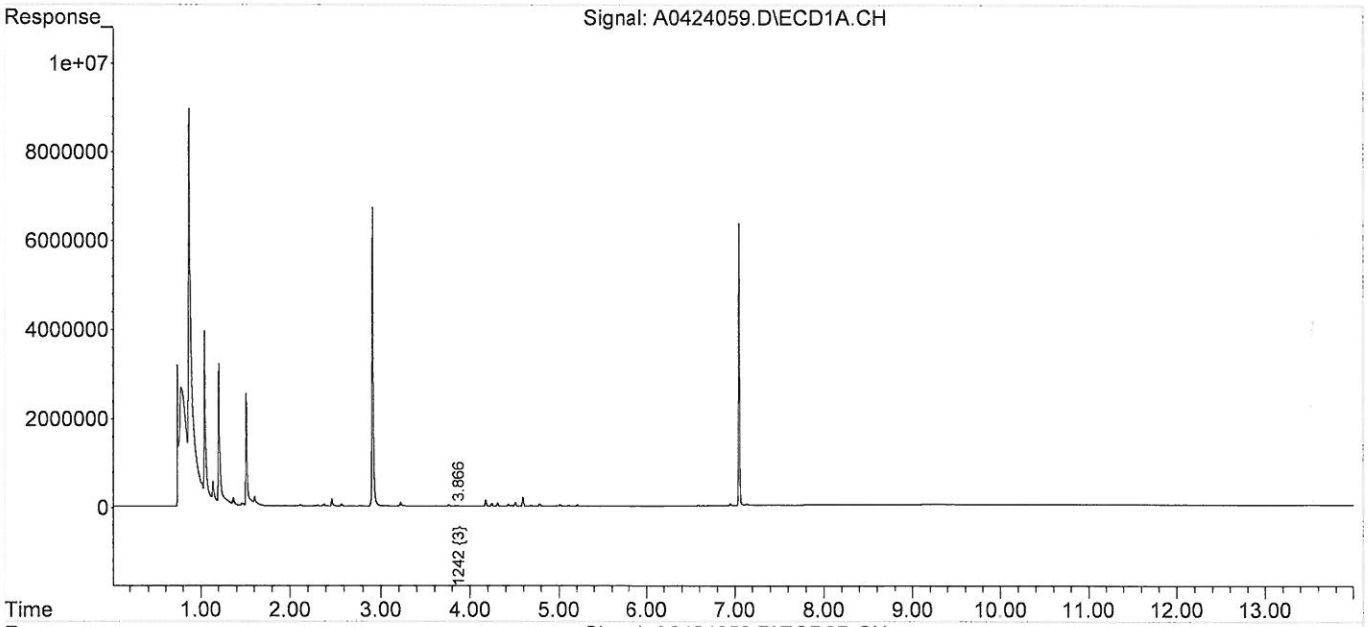


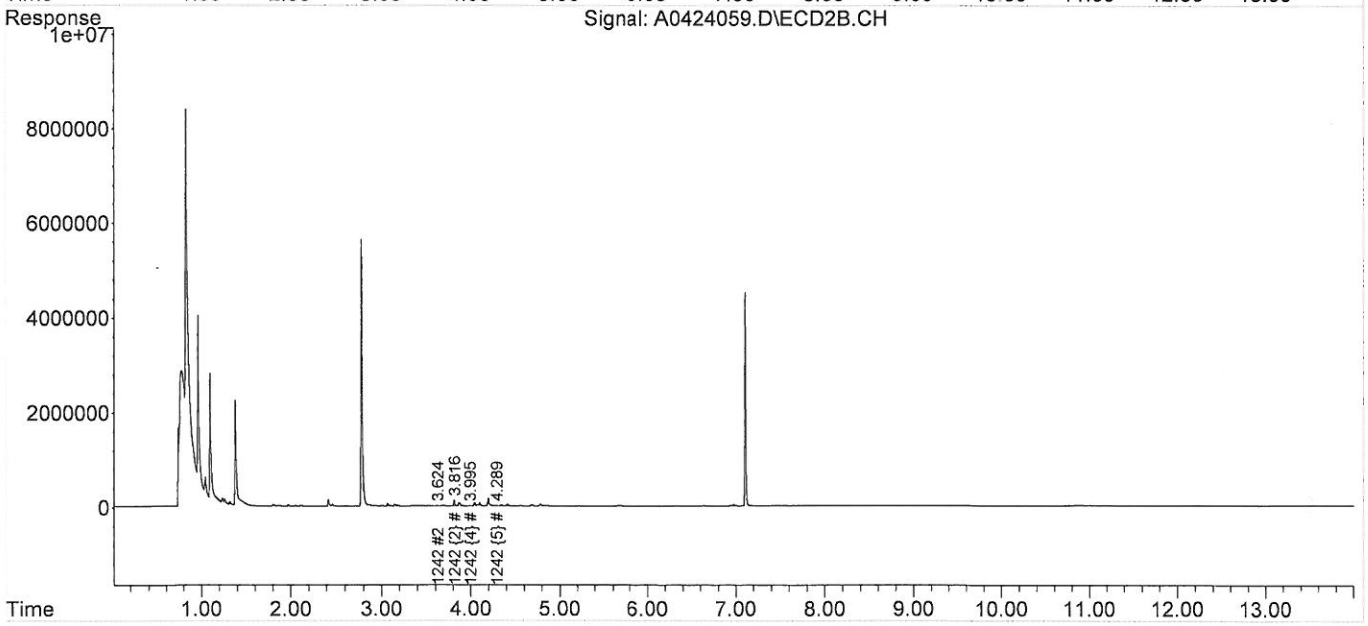
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424059.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Apr 2017 10:53 am
Operator : JMB
Sample : 17D0859-04@TBA 5CU Inst : HP G1530A
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 25 12:18:28 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1242-041917C.M
Quant Title : 1242 04/19/17 03/09/17 ICAL 1700139
QLast Update : Thu Apr 20 12:27:17 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



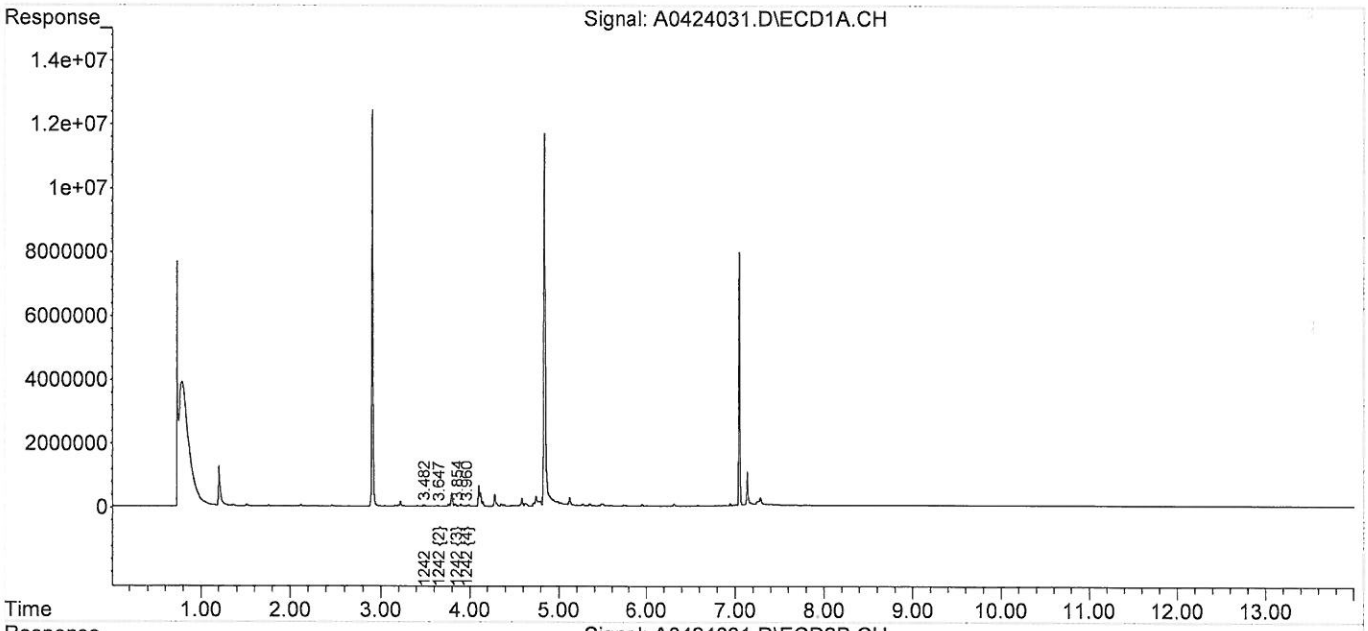


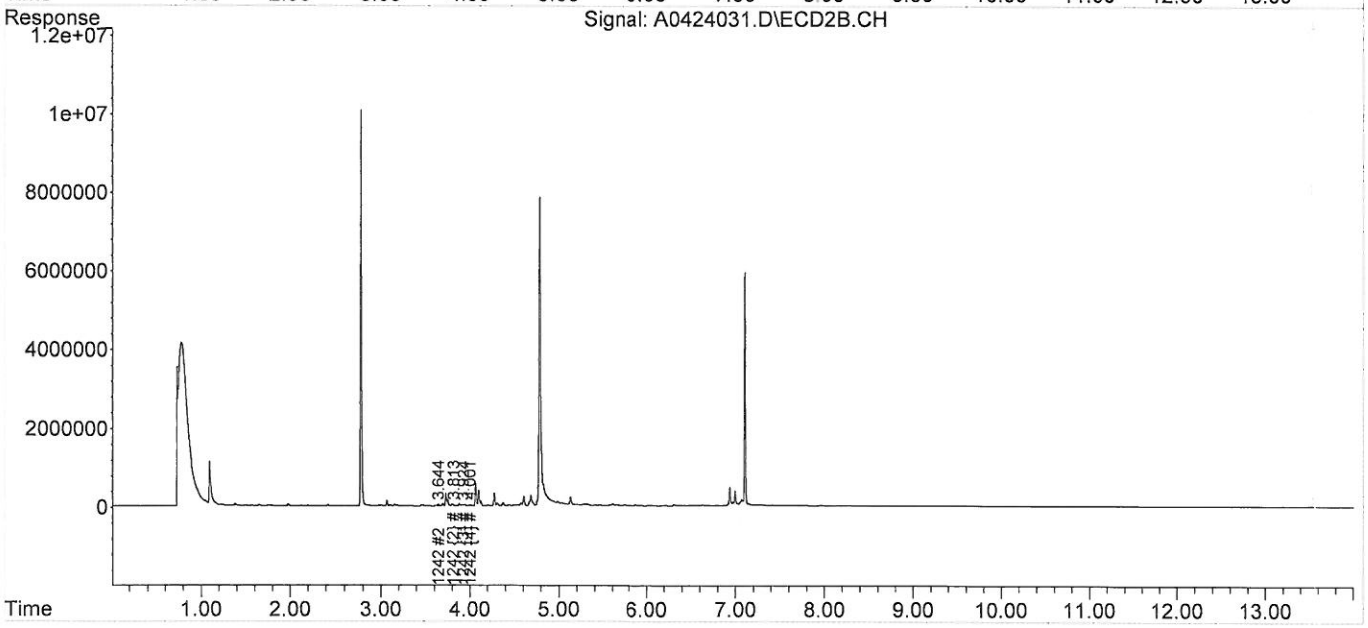
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Apr 2017 5:50 pm
Operator : JMB
Sample : 17D0859-05@TBA Inst : HP G1530A
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 25 13:24:57 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1242-041917C.M
Quant Title : 1242 04/19/17 03/09/17 ICAL 1700139
QLast Update : Thu Apr 20 12:27:17 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



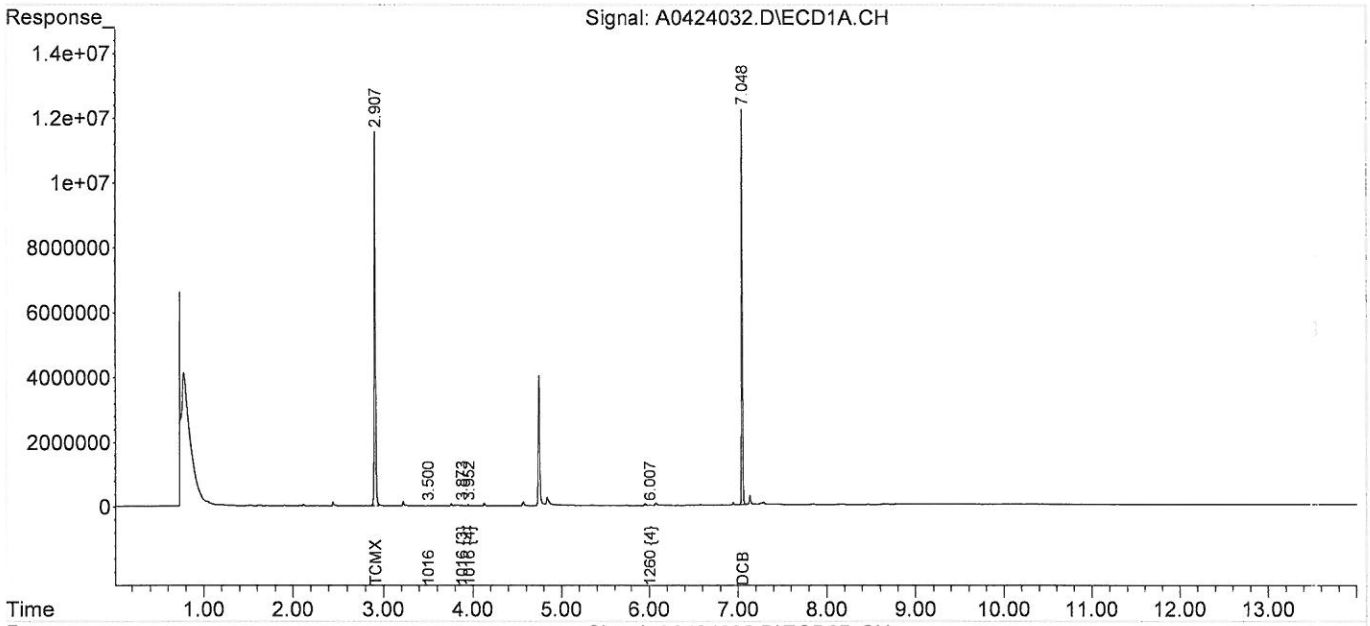


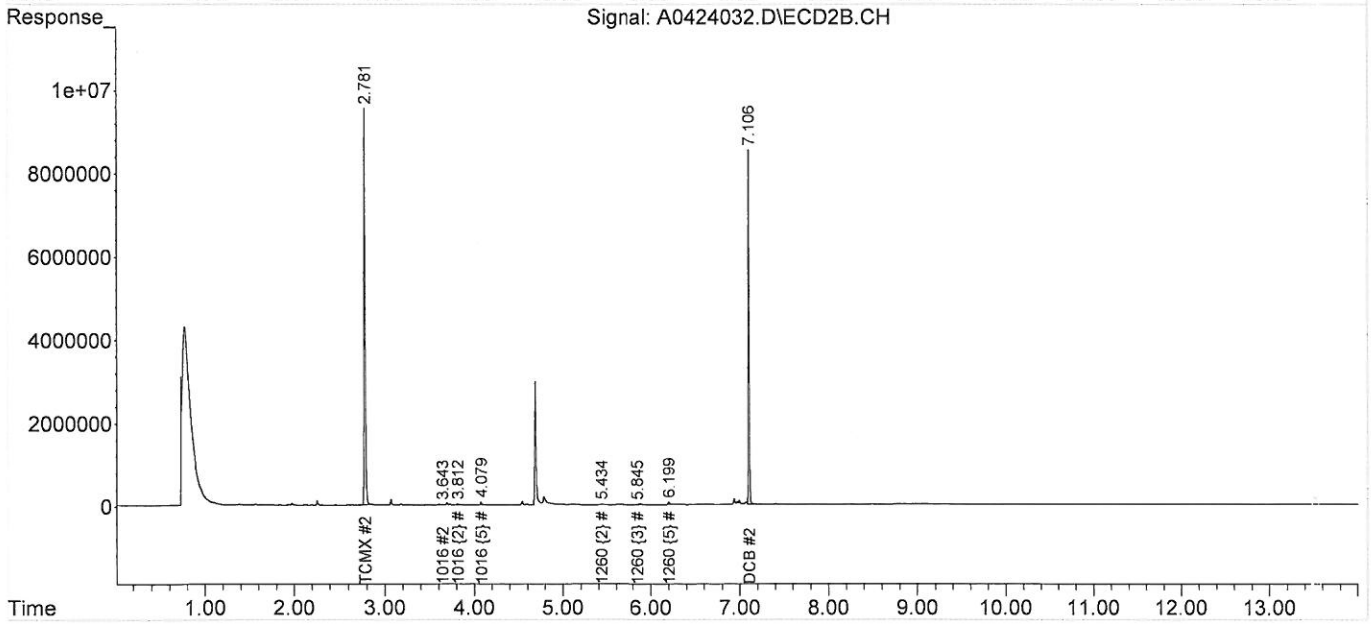
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Apr 2017 6:08 pm
Operator : JMB
Sample : 17D0859-06@TBA Inst : HP G1530A
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 25 08:05:49 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1260-041917C.M
Quant Title : 1260/1016 04/19/17 03/10/17 ICAL 1700139
QLast Update : Thu Apr 20 12:17:44 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



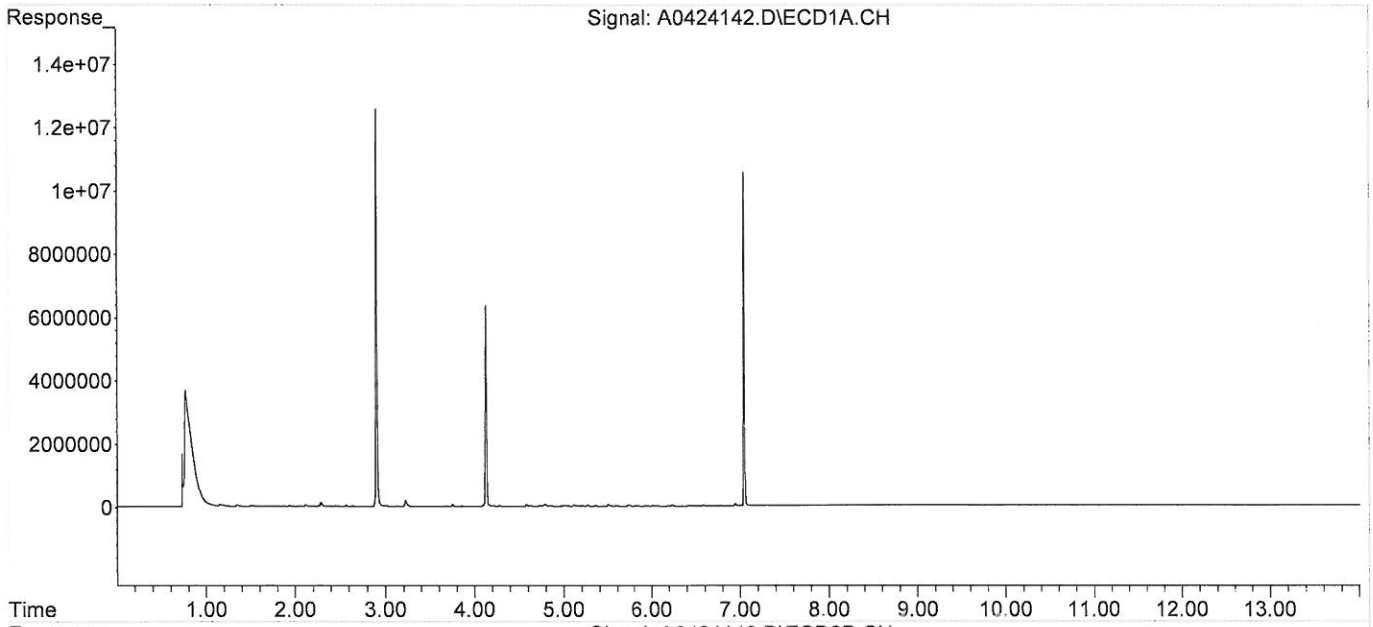


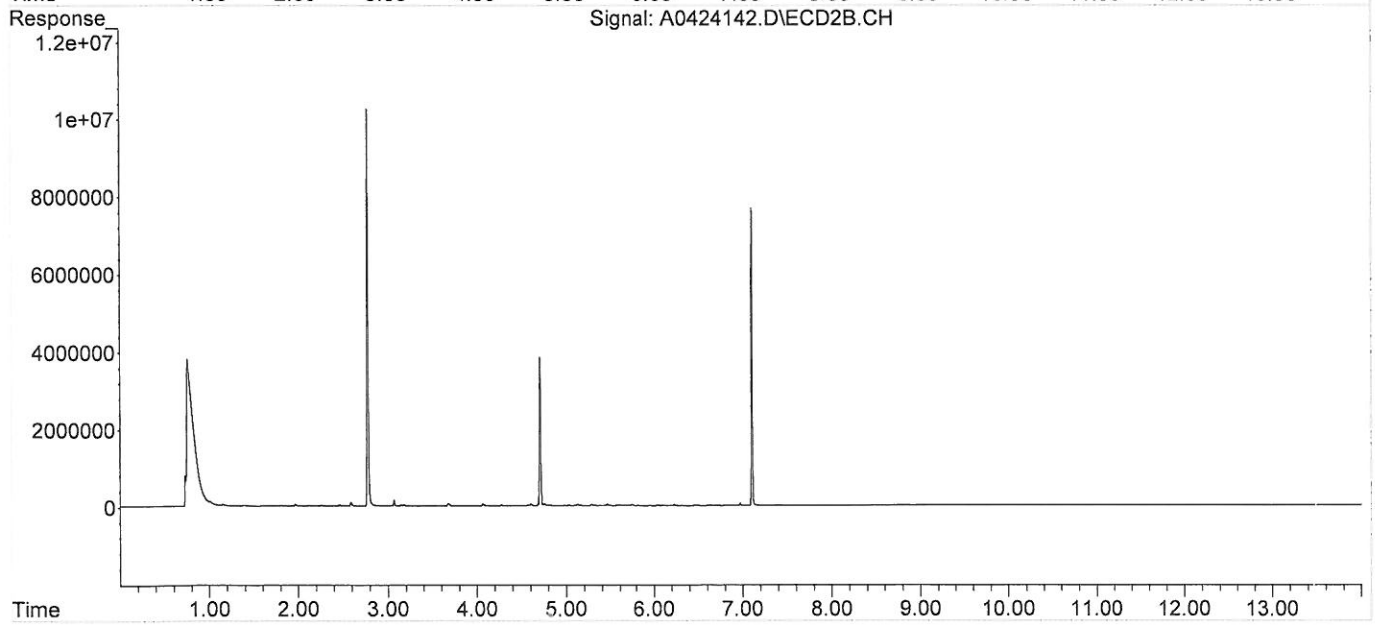
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424142.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Apr 2017 11:40 am
Operator : JMB
Sample : 17D0925-01 Inst : HP G1530A
Misc :
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 27 11:38:02 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1254-041917C.M
Quant Title : 1254 04/19/17 01/14/17 ICAL 1700139
QLast Update : Thu Apr 20 12:20:24 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



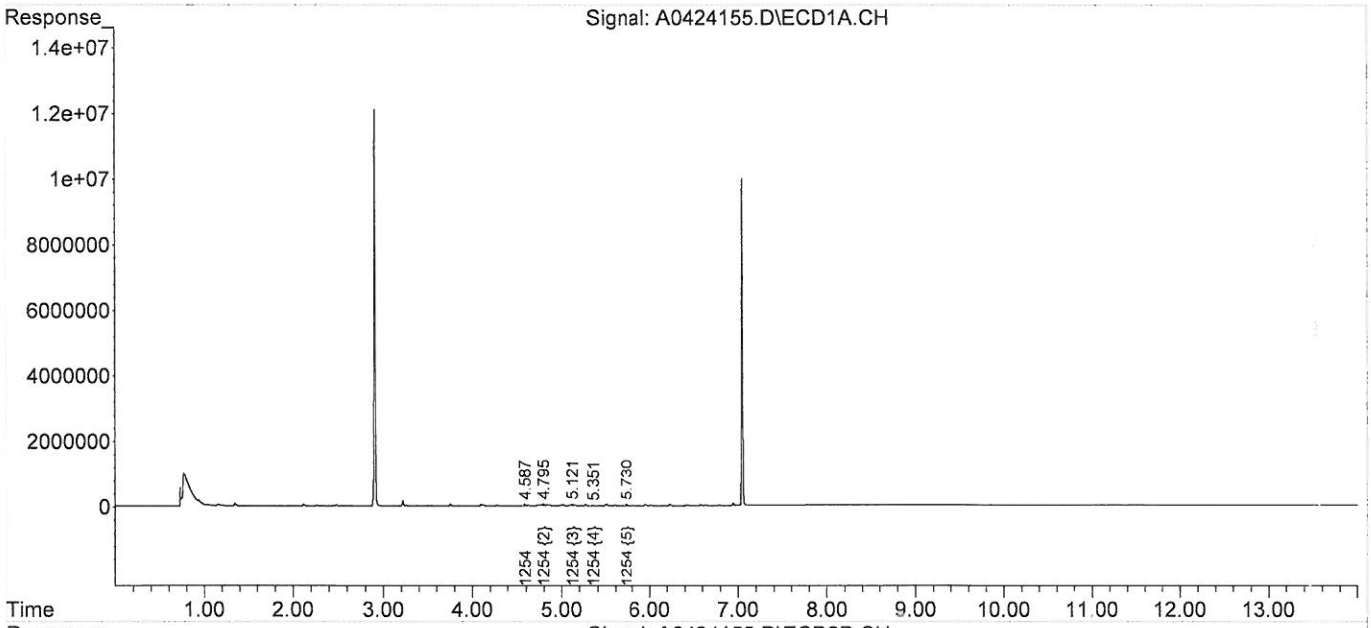


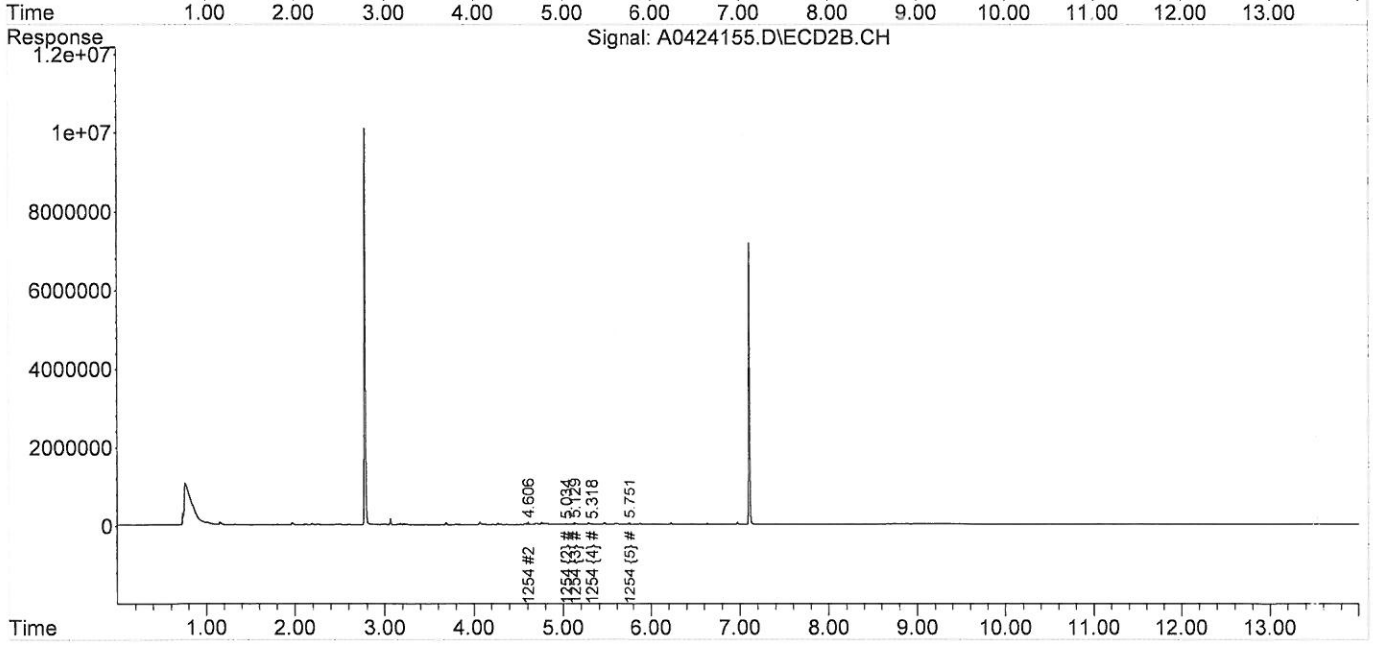
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424155.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Apr 2017 3:28 pm
Operator : JMB
Sample : 17D0925-02@TBA Inst : HP G1530A
Misc :
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 27 04:53:00 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1254-041917C.M
Quant Title : 1254 04/19/17 01/14/17 ICAL 1700139
QLast Update : Thu Apr 20 12:20:24 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



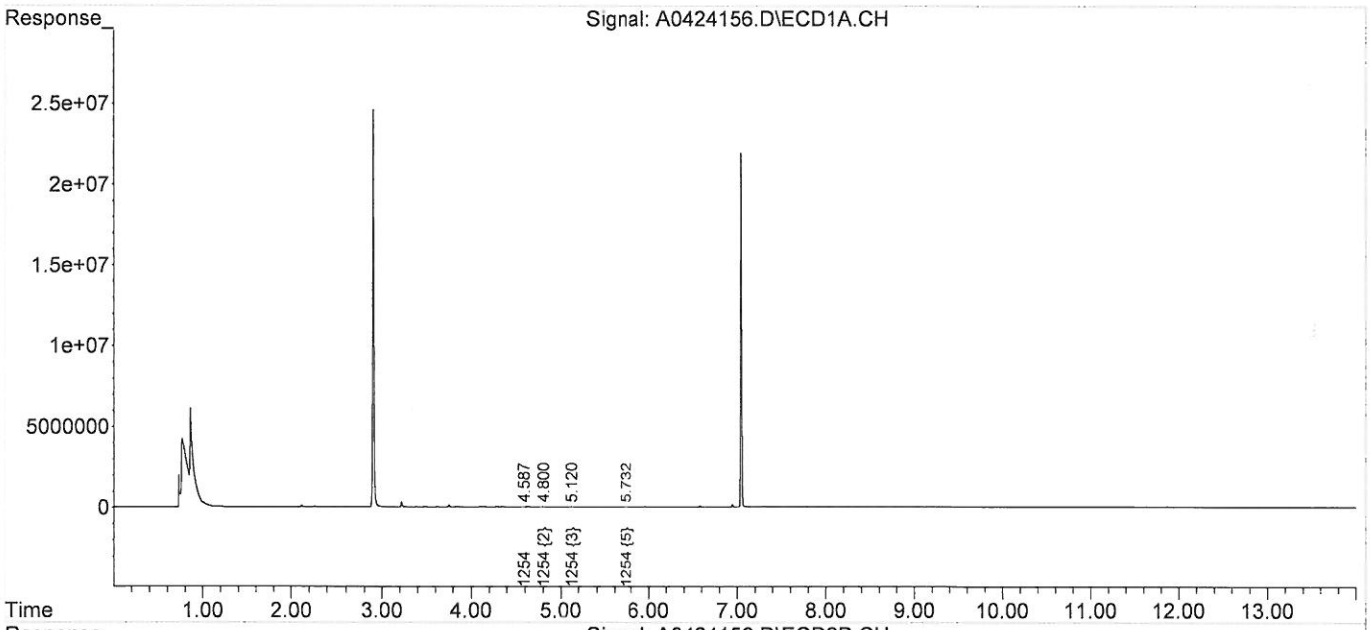


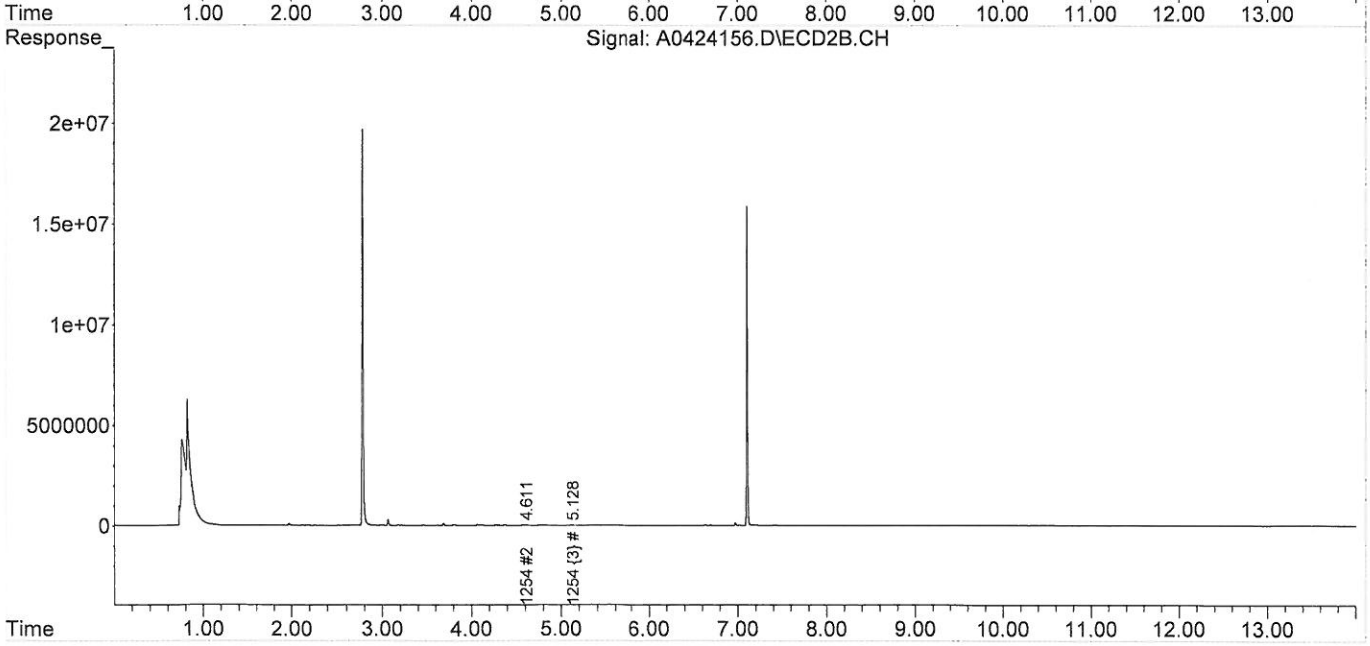
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424156.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Apr 2017 3:46 pm
Operator : JMB
Sample : 17D0925-03@TBA Inst : HP G1530A
Misc :
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 27 04:53:02 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1254-041917C.M
Quant Title : 1254 04/19/17 01/14/17 ICAL 1700139
QLast Update : Thu Apr 20 12:20:24 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



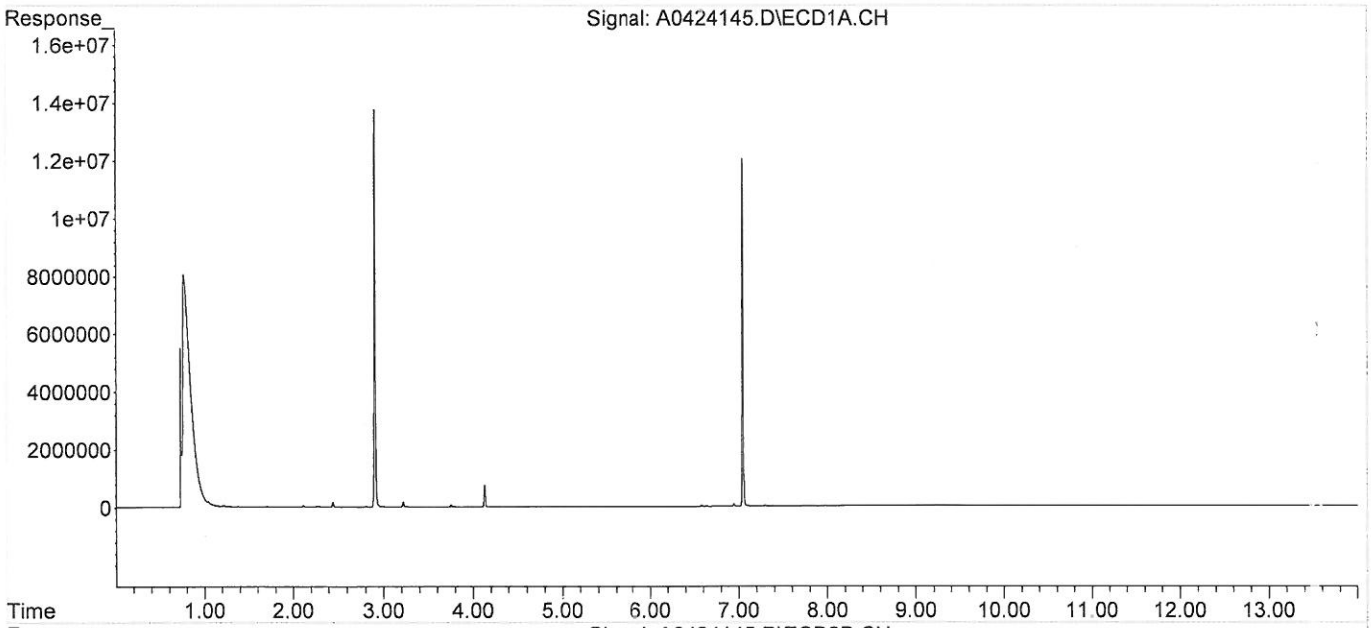


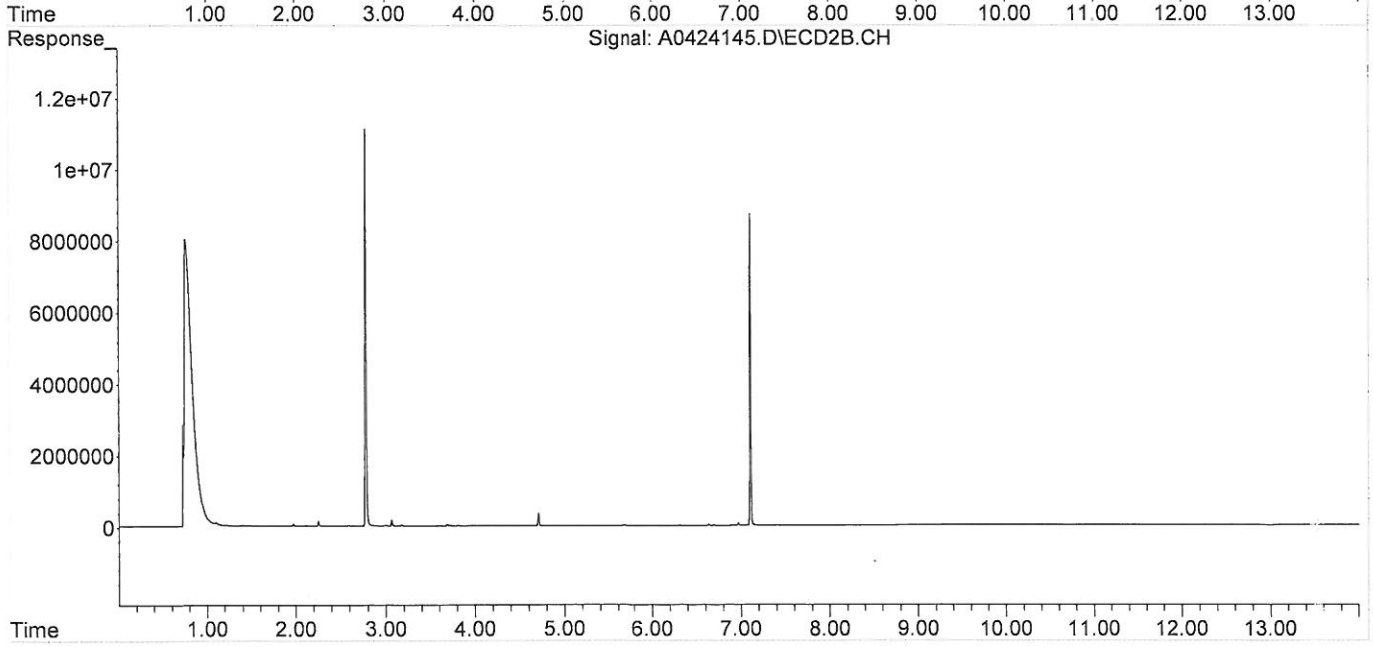
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424145.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Apr 2017 12:34 pm
Operator : JMB
Sample : 17D0925-04 Inst : HP G1530A
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 27 04:45:49 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1254-041917C.M
Quant Title : 1254 04/19/17 01/14/17 ICAL 1700139
QLast Update : Thu Apr 20 12:20:24 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



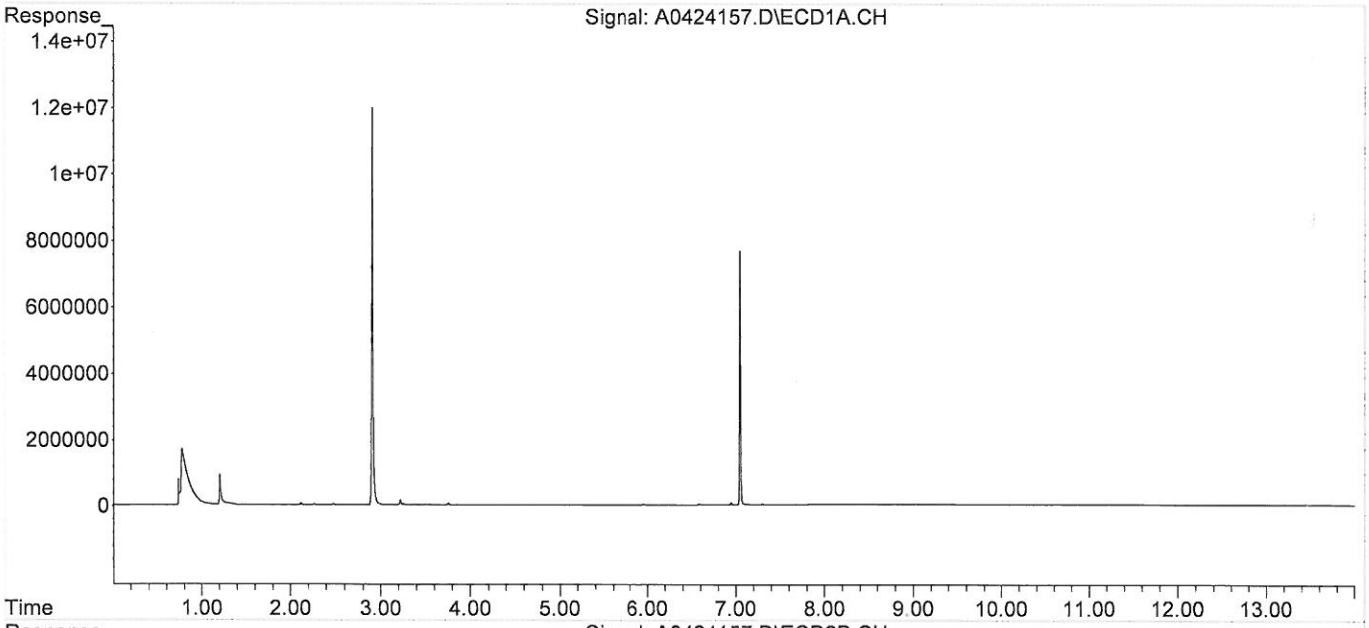


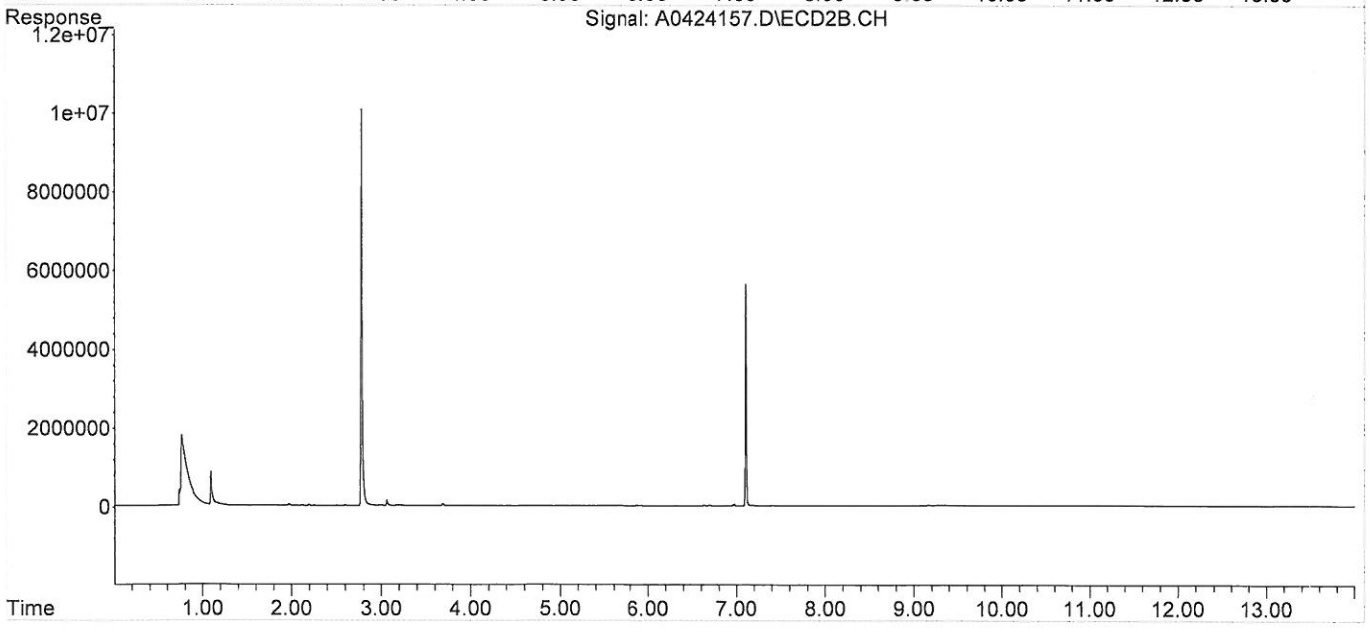
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\042417\
Data File : A0424157.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 26 Apr 2017 4:04 pm
Operator : JMB
Sample : 17D0925-05@TBA Inst : HP G1530A
Misc :
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Apr 27 04:53:04 2017
DataAcq Meth:PCBLONG.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\1-1254-041917C.M
Quant Title : 1254 04/19/17 01/14/17 ICAL 1700139
QLast Update : Thu Apr 20 12:20:24 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 8, 2017

Aaron Ting
AEI - Boston, MA
112 Water Street, 5th Floor
Boston, MA 02109

Project Location: BASF Cranston, 180 Mill St. Cranston RI
Client Job Number:
Project Number: 363655
Laboratory Work Order Number: 17D0859

Enclosed are results of analyses for samples received by the laboratory on April 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 7

17D0859-01 7

17D0859-02 15

17D0859-03 23

17D0859-04 31

17D0859-05 34

17D0859-06 37

17D0859-07 40

17D0859-08 42

Sample Preparation Information 44

QC Data 45

*** DEFAULT GENERAL METHOD *** 45

B175170 45

Volatile Organic Compounds by GC/MS 50

B175241 50

Polychlorinated Biphenyls By GC/ECD 55

B175068 55

Dual Column RPD Report 56

Flag/Qualifier Summary 61

Certifications 62

Chain of Custody/Sample Receipt 65

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

AEI - Boston, MA
112 Water Street, 5th Floor
Boston, MA 02109
ATTN: Aaron Ting

REPORT DATE: 5/8/2017

PURCHASE ORDER NUMBER: 130275

PROJECT NUMBER: 363655

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17D0859

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: BASF Cranston, 180 Mill St. Cranston RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MP-3S	17D0859-01	Ground Water		SW-846 8082A	
				SW-846 8260C	
				SW846-8270M	
MP-3I	17D0859-02	Ground Water		SW-846 8082A	
				SW-846 8260C	
				SW846-8270M	
MW-102S	17D0859-03	Ground Water		SW-846 8082A	
				SW-846 8260C	
				SW846-8270M	
MW-102D	17D0859-04	Ground Water		SW-846 8082A	
				SW-846 8260C	
MW-34S	17D0859-05	Ground Water		SW-846 8082A	
				SW-846 8260C	
MW-34D	17D0859-06	Ground Water		SW-846 8082A	
				SW-846 8260C	
MW-302S	17D0859-07	Ground Water		SW-846 8260C	
Trip Blank	17D0859-08	Trip Blank Water	Trip Blank	SW-846 8260C	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8082A

Qualifications:

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:

Aroclor-1242 [2C]

17D0859-05[MW-34S]

SW-846 8260C

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Methyl Acetate

17D0859-01[MP-3S], 17D0859-02[MP-3I], 17D0859-03[MW-102S], 17D0859-04[MW-102D], 17D0859-05[MW-34S], 17D0859-06[MW-34D], 17D0859-07[MW-302S], 17D0859-08[Trip Blank], B175241-BLK1, B175241-BS1, B175241-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

17D0859-01[MP-3S], 17D0859-02[MP-3I], 17D0859-03[MW-102S], 17D0859-04[MW-102D], 17D0859-05[MW-34S], 17D0859-07[MW-302S]

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

17D0859-01[MP-3S], 17D0859-02[MP-3I], 17D0859-03[MW-102S], 17D0859-04[MW-102D], 17D0859-05[MW-34S], 17D0859-06[MW-34D], 17D0859-07[MW-302S], 17D0859-08[Trip Blank], B175241-BLK1, B175241-BS1, B175241-BSD1

SW846-8270M

Qualifications:

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Cl10-BZ#209

17D0859-01[MP-3S], 17D0859-02[MP-3I], 17D0859-03[MW-102S], B175170-BLK1, B175170-BS1, B175170-BSD1

Cl9-BZ#206

17D0859-01[MP-3S], 17D0859-02[MP-3I], 17D0859-03[MW-102S], B175170-BLK1, B175170-BS1, B175170-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Cl7-BZ#189

17D0859-01[MP-3S], 17D0859-02[MP-3I], 17D0859-03[MW-102S], B175170-BLK1, B175170-BS1, B175170-BSD1

Cl8-BZ#195

17D0859-01[MP-3S], 17D0859-02[MP-3I], 17D0859-03[MW-102S], B175170-BLK1, B175170-BS1, B175170-BSD1

Z-01

Initial calibration verification did not meet method specifications. Increased uncertainty is associated with the reported value

Analyte & Samples(s) Qualified:

Cl5-BZ#105

17D0859-01[MP-3S], 17D0859-02[MP-3I], 17D0859-03[MW-102S], B175170-BLK1, B175170-BS1, B175170-BSD1

Cl5-BZ#126

17D0859-01[MP-3S], 17D0859-02[MP-3I], 17D0859-03[MW-102S], B175170-BLK1, B175170-BS1, B175170-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3S Sampled: 4/19/2017 09:05

Sample ID: 17D0859-01

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl1-BZ#1	51	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl1-BZ#2	1.3	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl1-BZ#3	4.1	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl2-BZ#4/#10	410	220	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl2-BZ#9	21	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl2-BZ#7	10	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl2-BZ#6	52	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl2-BZ#5	8.3	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl2-BZ#8	280	110	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl3-BZ#19	150	110	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl2-BZ#14	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#30	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#18	1200	110	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl2-BZ#11	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#17	270	110	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl2-BZ#12	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#27	33	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl2-BZ#13	1.9	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#24	5.9	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#16	350	110	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl3-BZ#32	180	110	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl2-BZ#15	6.4	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#34	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#54	3.1	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#23	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#29	1.8	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#50	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#26	45	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#25	12	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#53	150	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#31	370	110	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl3-BZ#28	240	110	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl3-BZ#33/#21/#20	170	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#51	33	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#45	140	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#22	110	110	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl4-BZ#46	56	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#73	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#69	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#43	23	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#36	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#52	480	220	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl4-BZ#48	110	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#49	240	220	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3S Sampled: 4/19/2017 09:05

Sample ID: 17D0859-01

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#104	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#47/#65/#62	63	6.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#75	4.7	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#39	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#38	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#44	420	220	ng/L	100		SW846-8270M	4/24/17	5/5/17 22:57	CJM
Cl4-BZ#59	23	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#42	110	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#71	100	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#35	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#41	49	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#96	3.3	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#72	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#103	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#64	170	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#40/#68	43	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl3-BZ#37	9.2	1.1	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#100	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#94	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#57	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#67/#58	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#102	6.6	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#61	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#98	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#93	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#76	2.7	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#63	6.4	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#88/#95	62	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#121	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#74	75	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#155	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#70	160	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#91	15	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#66	100	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#80/#55	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#92	8.1	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#89/#84	32	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#56	66	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#90/#101	45	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#113	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#60	27	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#99	21	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#150	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#152	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3S Sampled: 4/19/2017 09:05

Sample ID: 17D0859-01

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#119/#83	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#125/#112/#86	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#109	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#145	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#97	21	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#148	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#79	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#116	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#87	22	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#78	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#154/#136	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#111/#117/#115	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#85	11	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#120/#110	39	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#81	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#151	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#135	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#82	9.8	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#144	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#147/#149	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl4-BZ#77	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#143/#139	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#140	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#124	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#108	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#123/#107	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#188	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#134	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#106	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#142	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#133/#131	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#118	17	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#184	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#165	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#146	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#122	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#161	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#114	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#168	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#153	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#132	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#179	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#141	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#176	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3S Sampled: 4/19/2017 09:05

Sample ID: 17D0859-01

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#105	7.4	2.2	ng/L	1	Z-01	SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#137	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#186	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#127	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#130/#164	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#178	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#138	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#160/#129/#163	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#158	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#182/#175	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#187	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#183	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#166	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#159	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl5-BZ#126	ND	2.2	ng/L	1	Z-01	SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#185	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#128/#162	ND	4.4	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#174	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#202	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#167	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#181	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#177	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#200/#204	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#171	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#173	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#197	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#172	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#156	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#192	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#157	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#180	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#193	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#199	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#191	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#198	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#201	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#170	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl7-BZ#190	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#196	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#203	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl6-BZ#169	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl9-BZ#208	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl9-BZ#207	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3S Sampled: 4/19/2017 09:05

Sample ID: 17D0859-01

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl7-BZ#189	ND	2.2	ng/L	1	R-05	SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#195	ND	3.3	ng/L	1	R-05	SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#194	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl8-BZ#205	ND	3.3	ng/L	1		SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl9-BZ#206	ND	3.3	ng/L	1	L-07A	SW846-8270M	4/24/17	5/6/17 4:16	CJM
Cl10-BZ#209	ND	3.3	ng/L	1	L-07A	SW846-8270M	4/24/17	5/6/17 4:16	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	68.9	40-140		5/6/17 4:16

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3S Sampled: 4/19/2017 09:05

Sample ID: 17D0859-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1000	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Acrylonitrile	ND	100	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
tert-Amyl Methyl Ether (TAME)	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Benzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Bromobenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Bromochloromethane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Bromodichloromethane	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Bromoform	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Bromomethane	ND	100	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
2-Butanone (MEK)	ND	400	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
tert-Butyl Alcohol (TBA)	ND	400	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
n-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
sec-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
tert-Butylbenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Carbon Disulfide	ND	80	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Carbon Tetrachloride	ND	100	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Chlorobenzene	680	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Chlorodibromomethane	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Chloroethane	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Chloroform	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Chloromethane	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
2-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
4-Chlorotoluene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	100	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,2-Dibromoethane (EDB)	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Dibromomethane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,2-Dichlorobenzene	630	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,3-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,4-Dichlorobenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
trans-1,4-Dichloro-2-butene	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Dichlorodifluoromethane (Freon 12)	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,1-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,2-Dichloroethane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,1-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
cis-1,2-Dichloroethylene	130	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
trans-1,2-Dichloroethylene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,3-Dichloropropane	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
2,2-Dichloropropane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,1-Dichloropropene	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
cis-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
trans-1,3-Dichloropropene	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Diethyl Ether	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3S Sampled: 4/19/2017 09:05

Sample ID: 17D0859-01

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,4-Dioxane	ND	1000	µg/L	20	V-16	SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Ethylbenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Hexachlorobutadiene	ND	12	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
2-Hexanone (MBK)	ND	200	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Isopropylbenzene (Cumene)	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
p-Isopropyltoluene (p-Cymene)	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Methyl Acetate	ND	20	µg/L	20	L-04	SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Methyl Cyclohexane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Methylene Chloride	ND	100	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
4-Methyl-2-pentanone (MIBK)	ND	200	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Naphthalene	ND	100	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
n-Propylbenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Styrene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,1,1,2-Tetrachloroethane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,1,2,2-Tetrachloroethane	ND	10	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Tetrachloroethylene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Tetrahydrofuran	ND	200	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Toluene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,2,3-Trichlorobenzene	ND	100	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,2,4-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,3,5-Trichlorobenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,1,1-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,1,2-Trichloroethane	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Trichloroethylene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Trichlorofluoromethane (Freon 11)	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,2,3-Trichloropropane	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,2,4-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
1,3,5-Trimethylbenzene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
Vinyl Chloride	41	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
m+p Xylene	ND	40	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH
o-Xylene	ND	20	µg/L	20		SW-846 8260C	4/25/17	4/25/17 21:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.6	70-130		4/25/17 21:43
Toluene-d8	100	70-130		4/25/17 21:43
4-Bromofluorobenzene	101	70-130		4/25/17 21:43

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3S Sampled: 4/19/2017 09:05

Sample ID: 17D0859-01

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.9	µg/L	10		SW-846 8082A	4/21/17	4/25/17 10:40	KAL
Aroclor-1221 [1]	ND	1.9	µg/L	10		SW-846 8082A	4/21/17	4/25/17 10:40	KAL
Aroclor-1232 [1]	ND	1.9	µg/L	10		SW-846 8082A	4/21/17	4/25/17 10:40	KAL
Aroclor-1242 [2]	9.0	1.9	µg/L	10		SW-846 8082A	4/21/17	4/25/17 10:40	KAL
Aroclor-1248 [1]	ND	1.9	µg/L	10		SW-846 8082A	4/21/17	4/25/17 10:40	KAL
Aroclor-1254 [1]	ND	1.9	µg/L	10		SW-846 8082A	4/21/17	4/25/17 10:40	KAL
Aroclor-1260 [1]	ND	1.9	µg/L	10		SW-846 8082A	4/21/17	4/25/17 10:40	KAL
Aroclor-1262 [1]	ND	1.9	µg/L	10		SW-846 8082A	4/21/17	4/25/17 10:40	KAL
Aroclor-1268 [1]	ND	1.9	µg/L	10		SW-846 8082A	4/21/17	4/25/17 10:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.8	30-150		4/25/17 10:40
Decachlorobiphenyl [2]	76.3	30-150		4/25/17 10:40
Tetrachloro-m-xylene [1]	82.5	30-150		4/25/17 10:40
Tetrachloro-m-xylene [2]	87.9	30-150		4/25/17 10:40

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3I Sampled: 4/19/2017 10:07

Sample ID: 17D0859-02

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl1-BZ#1	1000	95	ng/L	100		SW846-8270M	4/24/17	5/6/17 0:43	CJM
Cl1-BZ#2	54	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl1-BZ#3	460	95	ng/L	100		SW846-8270M	4/24/17	5/6/17 0:43	CJM
Cl2-BZ#4/#10	120	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl2-BZ#9	43	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl2-BZ#7	44	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl2-BZ#6	110	95	ng/L	100		SW846-8270M	4/24/17	5/6/17 0:43	CJM
Cl2-BZ#5	40	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl2-BZ#8	330	95	ng/L	100		SW846-8270M	4/24/17	5/6/17 0:43	CJM
Cl3-BZ#19	2.9	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl2-BZ#14	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#30	ND	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#18	22	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl2-BZ#11	2.9	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#17	8.7	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl2-BZ#12	15	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#27	1.5	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl2-BZ#13	21	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#24	ND	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#16	10	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#32	4.1	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl2-BZ#15	70	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#34	ND	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#54	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#23	ND	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#29	ND	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#50	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#26	2.4	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#25	1.9	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#53	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#31	8.2	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#28	8.0	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#33/#21/#20	11	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#51	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#45	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#22	4.4	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#46	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#73	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#69	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#43	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#36	ND	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#52	5.2	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#48	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#49	2.1	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3I Sampled: 4/19/2017 10:07

Sample ID: 17D0859-02

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#104	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#47/#65/#62	ND	5.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#75	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#39	ND	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#38	ND	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#44	4.0	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#59	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#42	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#71	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#35	ND	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#41	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#96	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#72	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#103	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#64	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#40/#68	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl3-BZ#37	1.1	0.95	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#100	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#94	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#57	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#67/#58	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#102	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#61	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#98	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#93	ND	5.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#76	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#63	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#88/#95	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#121	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#74	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#155	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#70	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#91	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#66	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#80/#55	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#92	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#89/#84	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#56	3.0	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#90/#101	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#113	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#60	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#99	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#150	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#152	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3I Sampled: 4/19/2017 10:07

Sample ID: 17D0859-02

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#119/#83	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#125/#112/#86	ND	5.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#109	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#145	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#97	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#148	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#79	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#116	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#87	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#78	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#154/#136	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#111/#117/#115	ND	5.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#85	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#120/#110	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#81	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#151	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#135	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#82	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#144	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#147/#149	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl4-BZ#77	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#143/#139	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#140	8.3	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#124	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#108	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#123/#107	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#188	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#134	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#106	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#142	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#133/#131	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#118	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#184	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#165	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#146	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#122	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#161	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#114	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#168	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#153	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#132	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#179	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#141	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#176	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3I Sampled: 4/19/2017 10:07

Sample ID: 17D0859-02

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#105	ND	1.9	ng/L	1	Z-01	SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#137	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#186	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#127	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#130/#164	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#178	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#138	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#160/#129/#163	ND	5.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#158	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#182/#175	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#187	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#183	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#166	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#159	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl5-BZ#126	ND	1.9	ng/L	1	Z-01	SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#185	2.0	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#128/#162	ND	3.8	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#174	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#202	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#167	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#181	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#177	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#200/#204	ND	5.7	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#171	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#173	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#197	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#172	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#156	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#192	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#157	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#180	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#193	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#199	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#191	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#198	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#201	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#170	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl7-BZ#190	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#196	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#203	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl6-BZ#169	ND	1.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl9-BZ#208	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl9-BZ#207	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3I Sampled: 4/19/2017 10:07

Sample ID: 17D0859-02

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl7-BZ#189	ND	1.9	ng/L	1	R-05	SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#195	ND	2.9	ng/L	1	R-05	SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#194	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl8-BZ#205	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl9-BZ#206	ND	2.9	ng/L	1	L-07A	SW846-8270M	4/24/17	5/6/17 6:03	CJM
Cl10-BZ#209	ND	2.9	ng/L	1	L-07A	SW846-8270M	4/24/17	5/6/17 6:03	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	52.3	40-140		5/6/17 6:03

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3I Sampled: 4/19/2017 10:07

Sample ID: 17D0859-02

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Acrylonitrile	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
tert-Amyl Methyl Ether (TAME)	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Benzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Bromobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Bromochloromethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Bromodichloromethane	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Bromoform	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Bromomethane	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
2-Butanone (MEK)	ND	20000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
tert-Butyl Alcohol (TBA)	ND	20000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
n-Butylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
sec-Butylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
tert-Butylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Carbon Disulfide	ND	4000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Carbon Tetrachloride	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Chlorobenzene	13000	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Chlorodibromomethane	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Chloroethane	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Chloroform	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Chloromethane	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
2-Chlorotoluene	3300	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
4-Chlorotoluene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,2-Dibromoethane (EDB)	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Dibromomethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,2-Dichlorobenzene	45000	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,3-Dichlorobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,4-Dichlorobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
trans-1,4-Dichloro-2-butene	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Dichlorodifluoromethane (Freon 12)	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,1-Dichloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,2-Dichloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,1-Dichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
cis-1,2-Dichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
trans-1,2-Dichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,2-Dichloropropane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,3-Dichloropropane	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
2,2-Dichloropropane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,1-Dichloropropene	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
cis-1,3-Dichloropropene	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
trans-1,3-Dichloropropene	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Diethyl Ether	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3I Sampled: 4/19/2017 10:07

Sample ID: 17D0859-02

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,4-Dioxane	ND	50000	µg/L	1000	V-16	SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Ethylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Hexachlorobutadiene	ND	600	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
2-Hexanone (MBK)	ND	10000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Isopropylbenzene (Cumene)	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
p-Isopropyltoluene (p-Cymene)	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Methyl Acetate	ND	1000	µg/L	1000	L-04	SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Methyl Cyclohexane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Methylene Chloride	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
4-Methyl-2-pentanone (MIBK)	ND	10000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Naphthalene	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
n-Propylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Styrene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,1,1,2-Tetrachloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,1,2,2-Tetrachloroethane	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Tetrachloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Tetrahydrofuran	ND	10000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Toluene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,2,3-Trichlorobenzene	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,2,4-Trichlorobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,3,5-Trichlorobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,1,1-Trichloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,1,2-Trichloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Trichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Trichlorofluoromethane (Freon 11)	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,2,3-Trichloropropane	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,2,4-Trimethylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
1,3,5-Trimethylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
Vinyl Chloride	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
m+p Xylene	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH
o-Xylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:10	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.0	70-130		4/25/17 22:10
Toluene-d8	101	70-130		4/25/17 22:10
4-Bromofluorobenzene	98.8	70-130		4/25/17 22:10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MP-3I Sampled: 4/19/2017 10:07

Sample ID: 17D0859-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	µg/L	1		SW-846 8082A	4/21/17	4/24/17 16:55	KAL
Aroclor-1221 [1]	ND	0.18	µg/L	1		SW-846 8082A	4/21/17	4/24/17 16:55	KAL
Aroclor-1232 [1]	ND	0.18	µg/L	1		SW-846 8082A	4/21/17	4/24/17 16:55	KAL
Aroclor-1242 [2]	0.33	0.18	µg/L	1		SW-846 8082A	4/21/17	4/24/17 16:55	KAL
Aroclor-1248 [1]	ND	0.18	µg/L	1		SW-846 8082A	4/21/17	4/24/17 16:55	KAL
Aroclor-1254 [1]	ND	0.18	µg/L	1		SW-846 8082A	4/21/17	4/24/17 16:55	KAL
Aroclor-1260 [1]	ND	0.18	µg/L	1		SW-846 8082A	4/21/17	4/24/17 16:55	KAL
Aroclor-1262 [1]	ND	0.18	µg/L	1		SW-846 8082A	4/21/17	4/24/17 16:55	KAL
Aroclor-1268 [1]	ND	0.18	µg/L	1		SW-846 8082A	4/21/17	4/24/17 16:55	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.6	30-150		4/24/17 16:55
Decachlorobiphenyl [2]	56.4	30-150		4/24/17 16:55
Tetrachloro-m-xylene [1]	63.6	30-150		4/24/17 16:55
Tetrachloro-m-xylene [2]	66.3	30-150		4/24/17 16:55

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102S Sampled: 4/19/2017 11:05

Sample ID: 17D0859-03

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl1-BZ#1	200	98	ng/L	100		SW846-8270M	4/24/17	5/6/17 2:30	CJM
Cl1-BZ#2	22	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl1-BZ#3	8.3	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#4/#10	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#9	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#7	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#6	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#5	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#8	1.3	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#19	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#14	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#30	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#18	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#11	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#17	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#12	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#27	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#13	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#24	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#16	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#32	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl2-BZ#15	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#34	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#54	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#23	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#29	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#50	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#26	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#25	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#53	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#31	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#28	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#33/#21/#20	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#51	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#45	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#22	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#46	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#73	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#69	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#43	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#36	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#52	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#48	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#49	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102S Sampled: 4/19/2017 11:05

Sample ID: 17D0859-03

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#104	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#47/#65/#62	ND	5.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#75	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#39	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#38	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#44	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#59	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#42	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#71	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#35	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#41	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#96	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#72	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#103	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#64	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#40/#68	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl3-BZ#37	ND	0.98	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#100	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#94	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#57	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#67/#58	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#102	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#61	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#98	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#93	ND	5.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#76	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#63	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#88/#95	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#121	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#74	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#155	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#70	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#91	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#66	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#80/#55	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#92	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#89/#84	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#56	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#90/#101	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#113	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#60	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#99	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#150	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#152	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102S Sampled: 4/19/2017 11:05

Sample ID: 17D0859-03

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#119/#83	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#125/#112/#86	ND	5.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#109	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#145	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#97	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#148	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#79	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#116	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#87	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#78	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#154/#136	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#111/#117/#115	ND	5.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#85	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#120/#110	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#81	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#151	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#135	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#82	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#144	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#147/#149	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl4-BZ#77	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#143/#139	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#140	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#124	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#108	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#123/#107	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#188	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#134	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#106	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#142	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#133/#131	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#118	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#184	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#165	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#146	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#122	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#161	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#114	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#168	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#153	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#132	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#179	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#141	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#176	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102S Sampled: 4/19/2017 11:05

Sample ID: 17D0859-03

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#105	ND	2.0	ng/L	1	Z-01	SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#137	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#186	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#127	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#130/#164	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#178	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#138	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#160/#129/#163	ND	5.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#158	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#182/#175	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#187	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#183	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#166	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#159	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl5-BZ#126	ND	2.0	ng/L	1	Z-01	SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#185	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#128/#162	ND	3.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#174	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#202	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#167	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#181	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#177	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#200/#204	ND	5.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#171	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#173	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#197	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#172	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#156	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#192	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#157	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#180	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#193	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#199	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#191	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#198	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#201	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#170	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl7-BZ#190	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#196	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#203	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl6-BZ#169	ND	2.0	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl9-BZ#208	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl9-BZ#207	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102S Sampled: 4/19/2017 11:05

Sample ID: 17D0859-03

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl7-BZ#189	ND	2.0	ng/L	1	R-05	SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#195	ND	2.9	ng/L	1	R-05	SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#194	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl8-BZ#205	ND	2.9	ng/L	1		SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl9-BZ#206	ND	2.9	ng/L	1	L-07A	SW846-8270M	4/24/17	5/6/17 7:49	CJM
Cl10-BZ#209	ND	2.9	ng/L	1	L-07A	SW846-8270M	4/24/17	5/6/17 7:49	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	93.1	40-140		5/6/17 7:49

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102S Sampled: 4/19/2017 11:05

Sample ID: 17D0859-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	250	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Acrylonitrile	ND	25	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Benzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Bromobenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Bromochloromethane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Bromoform	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Bromomethane	ND	25	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
2-Butanone (MEK)	ND	100	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
tert-Butyl Alcohol (TBA)	ND	100	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
n-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
sec-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
tert-Butylbenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Carbon Disulfide	ND	20	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Carbon Tetrachloride	ND	25	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Chlorobenzene	270	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Chloroethane	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Chloroform	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Chloromethane	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
2-Chlorotoluene	28	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
4-Chlorotoluene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	25	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Dibromomethane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,2-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,3-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,4-Dichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,1-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,2-Dichloroethane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,1-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
cis-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
2,2-Dichloropropane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,1-Dichloropropene	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Diethyl Ether	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102S Sampled: 4/19/2017 11:05

Sample ID: 17D0859-03

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,4-Dioxane	ND	250	µg/L	5	V-16	SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Ethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Hexachlorobutadiene	ND	3.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
2-Hexanone (MBK)	ND	50	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Isopropylbenzene (Cumene)	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
p-Isopropyltoluene (p-Cymene)	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Methyl Acetate	ND	5.0	µg/L	5	L-04	SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Methyl Cyclohexane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	50	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Naphthalene	ND	25	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
n-Propylbenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Styrene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,1,1,2-Tetrachloroethane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Tetrachloroethylene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Tetrahydrofuran	ND	50	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Toluene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,2,3-Trichlorobenzene	ND	25	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,2,4-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,3,5-Trichlorobenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,1,1-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,1,2-Trichloroethane	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Trichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,2,3-Trichloropropane	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,2,4-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
1,3,5-Trimethylbenzene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
Vinyl Chloride	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
m+p Xylene	ND	10	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH
o-Xylene	ND	5.0	µg/L	5		SW-846 8260C	4/25/17	4/25/17 23:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		4/25/17 23:30
Toluene-d8	99.9	70-130		4/25/17 23:30
4-Bromofluorobenzene	104	70-130		4/25/17 23:30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102S Sampled: 4/19/2017 11:05

Sample ID: 17D0859-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:13	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:13	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:13	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:13	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:13	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:13	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:13	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:13	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.3	30-150		4/24/17 17:13
Decachlorobiphenyl [2]	78.1	30-150		4/24/17 17:13
Tetrachloro-m-xylene [1]	78.4	30-150		4/24/17 17:13
Tetrachloro-m-xylene [2]	79.5	30-150		4/24/17 17:13

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102D Sampled: 4/19/2017 12:25

Sample ID: 17D0859-04

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Acrylonitrile	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
tert-Amyl Methyl Ether (TAME)	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Benzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Bromobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Bromochloromethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Bromodichloromethane	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Bromoform	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Bromomethane	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
2-Butanone (MEK)	ND	20000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
tert-Butyl Alcohol (TBA)	ND	20000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
n-Butylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
sec-Butylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
tert-Butylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Carbon Disulfide	ND	4000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Carbon Tetrachloride	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Chlorobenzene	4400	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Chlorodibromomethane	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Chloroethane	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Chloroform	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Chloromethane	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
2-Chlorotoluene	44000	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
4-Chlorotoluene	3100	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,2-Dibromoethane (EDB)	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Dibromomethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,2-Dichlorobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,3-Dichlorobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,4-Dichlorobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
trans-1,4-Dichloro-2-butene	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Dichlorodifluoromethane (Freon 12)	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,1-Dichloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,2-Dichloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,1-Dichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
cis-1,2-Dichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
trans-1,2-Dichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,2-Dichloropropane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,3-Dichloropropane	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
2,2-Dichloropropane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,1-Dichloropropene	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
cis-1,3-Dichloropropene	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
trans-1,3-Dichloropropene	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Diethyl Ether	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102D Sampled: 4/19/2017 12:25

Sample ID: 17D0859-04

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,4-Dioxane	ND	50000	µg/L	1000	V-16	SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Ethylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Hexachlorobutadiene	ND	600	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
2-Hexanone (MBK)	ND	10000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Isopropylbenzene (Cumene)	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
p-Isopropyltoluene (p-Cymene)	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Methyl Acetate	ND	1000	µg/L	1000	L-04	SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Methyl Cyclohexane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Methylene Chloride	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
4-Methyl-2-pentanone (MIBK)	ND	10000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Naphthalene	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
n-Propylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Styrene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,1,1,2-Tetrachloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,1,2,2-Tetrachloroethane	ND	500	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Tetrachloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Tetrahydrofuran	ND	10000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Toluene	16000	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,2,3-Trichlorobenzene	ND	5000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,2,4-Trichlorobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,3,5-Trichlorobenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,1,1-Trichloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,1,2-Trichloroethane	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Trichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Trichlorofluoromethane (Freon 11)	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,2,3-Trichloropropane	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,2,4-Trimethylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
1,3,5-Trimethylbenzene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
Vinyl Chloride	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
m+p Xylene	ND	2000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH
o-Xylene	ND	1000	µg/L	1000		SW-846 8260C	4/25/17	4/25/17 22:37	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.3	70-130		4/25/17 22:37
Toluene-d8	100	70-130		4/25/17 22:37
4-Bromofluorobenzene	101	70-130		4/25/17 22:37

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-102D Sampled: 4/19/2017 12:25

Sample ID: 17D0859-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/25/17 10:53	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/25/17 10:53	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/25/17 10:53	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/25/17 10:53	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/25/17 10:53	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/25/17 10:53	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/25/17 10:53	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/25/17 10:53	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/25/17 10:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	48.9	30-150		4/25/17 10:53
Decachlorobiphenyl [2]	47.5	30-150		4/25/17 10:53
Tetrachloro-m-xylene [1]	52.1	30-150		4/25/17 10:53
Tetrachloro-m-xylene [2]	53.3	30-150		4/25/17 10:53

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-34S Sampled: 4/19/2017 14:00

Sample ID: 17D0859-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	200	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Acrylonitrile	ND	20	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
tert-Amyl Methyl Ether (TAME)	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Benzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Bromobenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Bromochloromethane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Bromodichloromethane	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Bromoform	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Bromomethane	ND	20	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
2-Butanone (MEK)	ND	80	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
tert-Butyl Alcohol (TBA)	ND	80	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
n-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
sec-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
tert-Butylbenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Carbon Disulfide	ND	16	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Carbon Tetrachloride	ND	20	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Chlorobenzene	77	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Chlorodibromomethane	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Chloroethane	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Chloroform	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Chloromethane	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
2-Chlorotoluene	230	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
4-Chlorotoluene	7.5	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	20	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,2-Dibromoethane (EDB)	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Dibromomethane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,2-Dichlorobenzene	22	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,3-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,4-Dichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
trans-1,4-Dichloro-2-butene	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,1-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,2-Dichloroethane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,1-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
cis-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
trans-1,2-Dichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,3-Dichloropropane	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
2,2-Dichloropropane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,1-Dichloropropene	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
cis-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
trans-1,3-Dichloropropene	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Diethyl Ether	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-34S Sampled: 4/19/2017 14:00

Sample ID: 17D0859-05

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,4-Dioxane	ND	200	µg/L	4	V-16	SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Ethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Hexachlorobutadiene	ND	2.4	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
2-Hexanone (MBK)	ND	40	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Isopropylbenzene (Cumene)	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
p-Isopropyltoluene (p-Cymene)	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Methyl Acetate	ND	4.0	µg/L	4	L-04	SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Methyl Cyclohexane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Methylene Chloride	ND	20	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	40	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Naphthalene	ND	20	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
n-Propylbenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Styrene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,1,1,2-Tetrachloroethane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,1,2,2-Tetrachloroethane	ND	2.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Tetrachloroethylene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Tetrahydrofuran	ND	40	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Toluene	11	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,2,3-Trichlorobenzene	ND	20	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,2,4-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,3,5-Trichlorobenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,1,1-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,1,2-Trichloroethane	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Trichloroethylene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Trichlorofluoromethane (Freon 11)	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,2,3-Trichloropropane	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,2,4-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
1,3,5-Trimethylbenzene	ND	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
Vinyl Chloride	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
m+p Xylene	ND	8.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH
o-Xylene	11	4.0	µg/L	4		SW-846 8260C	4/25/17	4/25/17 23:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.2	70-130		4/25/17 23:57
Toluene-d8	99.4	70-130		4/25/17 23:57
4-Bromofluorobenzene	100	70-130		4/25/17 23:57

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-34S Sampled: 4/19/2017 14:00

Sample ID: 17D0859-05

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:50	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:50	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:50	KAL
Aroclor-1242 [2]	0.35	0.20	µg/L	1	P-01	SW-846 8082A	4/21/17	4/24/17 17:50	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:50	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:50	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:50	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:50	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/24/17 17:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.0	30-150		4/24/17 17:50
Decachlorobiphenyl [2]	54.5	30-150		4/24/17 17:50
Tetrachloro-m-xylene [1]	77.8	30-150		4/24/17 17:50
Tetrachloro-m-xylene [2]	78.2	30-150		4/24/17 17:50

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-34D Sampled: 4/19/2017 15:30

Sample ID: 17D0859-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-34D Sampled: 4/19/2017 15:30

Sample ID: 17D0859-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 19:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.3	70-130		4/25/17 19:56
Toluene-d8	101	70-130		4/25/17 19:56
4-Bromofluorobenzene	102	70-130		4/25/17 19:56

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-34D Sampled: 4/19/2017 15:30

Sample ID: 17D0859-06

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	µg/L	1		SW-846 8082A	4/21/17	4/24/17 18:08	KAL
Aroclor-1221 [1]	ND	0.19	µg/L	1		SW-846 8082A	4/21/17	4/24/17 18:08	KAL
Aroclor-1232 [1]	ND	0.19	µg/L	1		SW-846 8082A	4/21/17	4/24/17 18:08	KAL
Aroclor-1242 [1]	ND	0.19	µg/L	1		SW-846 8082A	4/21/17	4/24/17 18:08	KAL
Aroclor-1248 [1]	ND	0.19	µg/L	1		SW-846 8082A	4/21/17	4/24/17 18:08	KAL
Aroclor-1254 [1]	ND	0.19	µg/L	1		SW-846 8082A	4/21/17	4/24/17 18:08	KAL
Aroclor-1260 [1]	ND	0.19	µg/L	1		SW-846 8082A	4/21/17	4/24/17 18:08	KAL
Aroclor-1262 [1]	ND	0.19	µg/L	1		SW-846 8082A	4/21/17	4/24/17 18:08	KAL
Aroclor-1268 [1]	ND	0.19	µg/L	1		SW-846 8082A	4/21/17	4/24/17 18:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.5	30-150		4/24/17 18:08
Decachlorobiphenyl [2]	80.2	30-150		4/24/17 18:08
Tetrachloro-m-xylene [1]	78.3	30-150		4/24/17 18:08
Tetrachloro-m-xylene [2]	79.1	30-150		4/24/17 18:08

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-302S Sampled: 4/19/2017 16:21

Sample ID: 17D0859-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2500	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Acrylonitrile	ND	250	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
tert-Amyl Methyl Ether (TAME)	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Benzene	190	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Bromobenzene	90	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Bromochloromethane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Bromodichloromethane	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Bromoform	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Bromomethane	ND	250	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
2-Butanone (MEK)	ND	1000	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
tert-Butyl Alcohol (TBA)	ND	1000	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
n-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
sec-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
tert-Butylbenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Carbon Disulfide	ND	200	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Carbon Tetrachloride	ND	250	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Chlorobenzene	1700	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Chlorodibromomethane	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Chloroethane	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Chloroform	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Chloromethane	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
2-Chlorotoluene	2500	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
4-Chlorotoluene	170	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	250	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,2-Dibromoethane (EDB)	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Dibromomethane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,2-Dichlorobenzene	230	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,3-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,4-Dichlorobenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
trans-1,4-Dichloro-2-butene	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Dichlorodifluoromethane (Freon 12)	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,1-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,2-Dichloroethane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,1-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
cis-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
trans-1,2-Dichloroethylene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,3-Dichloropropane	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
2,2-Dichloropropane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,1-Dichloropropene	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
cis-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
trans-1,3-Dichloropropene	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Diethyl Ether	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: MW-302S Sampled: 4/19/2017 16:21

Sample ID: 17D0859-07

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,4-Dioxane	ND	2500	µg/L	50	V-16	SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Ethylbenzene	55	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Hexachlorobutadiene	ND	30	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
2-Hexanone (MBK)	ND	500	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Isopropylbenzene (Cumene)	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
p-Isopropyltoluene (p-Cymene)	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Methyl Acetate	ND	50	µg/L	50	L-04	SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Methyl tert-Butyl Ether (MTBE)	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Methyl Cyclohexane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Methylene Chloride	ND	250	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
4-Methyl-2-pentanone (MIBK)	ND	500	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Naphthalene	ND	250	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
n-Propylbenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Styrene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,1,1,2-Tetrachloroethane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,1,2,2-Tetrachloroethane	ND	25	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Tetrachloroethylene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Tetrahydrofuran	ND	500	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Toluene	3800	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,2,3-Trichlorobenzene	ND	250	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,2,4-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,3,5-Trichlorobenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,1,1-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,1,2-Trichloroethane	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Trichloroethylene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Trichlorofluoromethane (Freon 11)	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,2,3-Trichloropropane	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,2,4-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
1,3,5-Trimethylbenzene	ND	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
Vinyl Chloride	ND	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
m+p Xylene	600	100	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH
o-Xylene	270	50	µg/L	50		SW-846 8260C	4/25/17	4/25/17 23:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.8	70-130		4/25/17 23:03
Toluene-d8	101	70-130		4/25/17 23:03
4-Bromofluorobenzene	103	70-130		4/25/17 23:03

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Trip Blank Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: Trip Blank Sampled: 4/19/2017 00:00

Sample ID: 17D0859-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Acrylonitrile	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Benzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Bromobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Bromochloromethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Bromoform	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
2-Butanone (MEK)	ND	20	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
tert-Butyl Alcohol (TBA)	ND	20	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Carbon Disulfide	ND	4.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Carbon Tetrachloride	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Chlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Chloroethane	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Chloroform	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Chloromethane	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
2-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
4-Chlorotoluene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Dibromomethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,2-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,3-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,4-Dichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,1-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,2-Dichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,1-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
cis-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
2,2-Dichloropropane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,1-Dichloropropene	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Diethyl Ether	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: BASF Cranston, 180 Mill St. Cran Sample Description: Trip Blank Work Order: 17D0859

Date Received: 4/19/2017

Field Sample #: Trip Blank Sampled: 4/19/2017 00:00

Sample ID: 17D0859-08

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,4-Dioxane	ND	50	µg/L	1	V-16	SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Ethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
2-Hexanone (MBK)	ND	10	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Isopropylbenzene (Cumene)	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Methyl Acetate	ND	1.0	µg/L	1	L-04	SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Methyl Cyclohexane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Naphthalene	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Styrene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Toluene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,2,3-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,3,5-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,1,1-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,1,2-Trichloroethane	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,2,3-Trichloropropane	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
1,3,5-Trimethylbenzene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
Vinyl Chloride	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	4/25/17	4/25/17 15:01	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.2	70-130		4/25/17 15:01
Toluene-d8	101	70-130		4/25/17 15:01
4-Bromofluorobenzene	100	70-130		4/25/17 15:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17D0859-01 [MP-3S]	B175068	930	9.00	04/21/17
17D0859-02 [MP-3I]	B175068	870	8.00	04/21/17
17D0859-03 [MW-102S]	B175068	910	9.00	04/21/17
17D0859-04 [MW-102D]	B175068	1000	10.0	04/21/17
17D0859-05 [MW-34S]	B175068	910	9.00	04/21/17
17D0859-06 [MW-34D]	B175068	940	9.00	04/21/17

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17D0859-01 [MP-3S]	B175241	0.25	5.00	04/25/17
17D0859-02 [MP-3I]	B175241	0.005	5.00	04/25/17
17D0859-03 [MW-102S]	B175241	1	5.00	04/25/17
17D0859-04 [MW-102D]	B175241	0.005	5.00	04/25/17
17D0859-05 [MW-34S]	B175241	1.25	5.00	04/25/17
17D0859-06 [MW-34D]	B175241	5	5.00	04/25/17
17D0859-07 [MW-302S]	B175241	0.1	5.00	04/25/17
17D0859-08 [Trip Blank]	B175241	5	5.00	04/25/17

Prep Method: SW-846 3510C-SW846-8270M

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17D0859-01 [MP-3S]	B175170	900	1.00	04/24/17
17D0859-02 [MP-3I]	B175170	1050	1.00	04/24/17
17D0859-03 [MW-102S]	B175170	1020	1.00	04/24/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175170 - SW-846 3510C										
Blank (B175170-BLK1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl1-BZ#1	ND	1.0	ng/L							
Cl1-BZ#2	ND	1.0	ng/L							
Cl1-BZ#3	ND	1.0	ng/L							
Cl2-BZ#4/#10	ND	2.0	ng/L							
Cl2-BZ#9	ND	1.0	ng/L							
Cl2-BZ#7	ND	1.0	ng/L							
Cl2-BZ#6	ND	1.0	ng/L							
Cl2-BZ#5	ND	1.0	ng/L							
Cl2-BZ#8	ND	1.0	ng/L							
Cl3-BZ#19	ND	1.0	ng/L							
Cl2-BZ#14	ND	2.0	ng/L							
Cl3-BZ#30	ND	1.0	ng/L							
Cl3-BZ#18	ND	1.0	ng/L							
Cl2-BZ#11	ND	1.0	ng/L							
Cl3-BZ#17	ND	1.0	ng/L							
Cl2-BZ#12	ND	1.0	ng/L							
Cl3-BZ#27	ND	1.0	ng/L							
Cl2-BZ#13	ND	1.0	ng/L							
Cl3-BZ#24	ND	1.0	ng/L							
Cl3-BZ#16	ND	1.0	ng/L							
Cl3-BZ#32	ND	1.0	ng/L							
Cl2-BZ#15	ND	1.0	ng/L							
Cl3-BZ#34	ND	1.0	ng/L							
Cl4-BZ#54	ND	2.0	ng/L							
Cl3-BZ#23	ND	1.0	ng/L							
Cl3-BZ#29	ND	1.0	ng/L							
Cl4-BZ#50	ND	2.0	ng/L							
Cl3-BZ#26	ND	1.0	ng/L							
Cl3-BZ#25	ND	1.0	ng/L							
Cl4-BZ#53	ND	2.0	ng/L							
Cl3-BZ#31	ND	1.0	ng/L							
Cl3-BZ#28	ND	1.0	ng/L							
Cl3-BZ#33/#21/#20	ND	3.0	ng/L							
Cl4-BZ#51	ND	2.0	ng/L							
Cl4-BZ#45	ND	2.0	ng/L							
Cl3-BZ#22	ND	1.0	ng/L							
Cl4-BZ#46	ND	2.0	ng/L							
Cl4-BZ#73	ND	2.0	ng/L							
Cl4-BZ#69	ND	2.0	ng/L							
Cl4-BZ#43	ND	2.0	ng/L							
Cl3-BZ#36	ND	1.0	ng/L							
Cl4-BZ#52	ND	2.0	ng/L							
Cl4-BZ#48	ND	2.0	ng/L							
Cl4-BZ#49	ND	2.0	ng/L							
Cl5-BZ#104	ND	2.0	ng/L							
Cl4-BZ#47/#65/#62	ND	6.0	ng/L							
Cl4-BZ#75	ND	2.0	ng/L							
Cl3-BZ#39	ND	1.0	ng/L							
Cl3-BZ#38	ND	1.0	ng/L							
Cl4-BZ#44	ND	2.0	ng/L							
Cl4-BZ#59	ND	2.0	ng/L							
Cl4-BZ#42	ND	2.0	ng/L							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175170 - SW-846 3510C										
Blank (B175170-BLK1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl4-BZ#71	ND	2.0	ng/L							
Cl3-BZ#35	ND	1.0	ng/L							
Cl4-BZ#41	ND	2.0	ng/L							
Cl5-BZ#96	ND	2.0	ng/L							
Cl4-BZ#72	ND	2.0	ng/L							
Cl5-BZ#103	ND	2.0	ng/L							
Cl4-BZ#64	ND	2.0	ng/L							
Cl4-BZ#40/#68	ND	4.0	ng/L							
Cl3-BZ#37	ND	1.0	ng/L							
Cl5-BZ#100	ND	2.0	ng/L							
Cl5-BZ#94	ND	2.0	ng/L							
Cl4-BZ#57	ND	2.0	ng/L							
Cl4-BZ#67/#58	ND	4.0	ng/L							
Cl5-BZ#102	ND	2.0	ng/L							
Cl4-BZ#61	ND	2.0	ng/L							
Cl5-BZ#98	ND	2.0	ng/L							
Cl5-BZ#93	ND	6.0	ng/L							
Cl4-BZ#76	ND	2.0	ng/L							
Cl4-BZ#63	ND	2.0	ng/L							
Cl5-BZ#88/#95	ND	4.0	ng/L							
Cl5-BZ#121	ND	2.0	ng/L							
Cl4-BZ#74	ND	2.0	ng/L							
Cl6-BZ#155	ND	2.0	ng/L							
Cl4-BZ#70	ND	2.0	ng/L							
Cl5-BZ#91	ND	2.0	ng/L							
Cl4-BZ#66	ND	2.0	ng/L							
Cl4-BZ#80/#55	ND	4.0	ng/L							
Cl5-BZ#92	ND	2.0	ng/L							
Cl5-BZ#89/#84	ND	4.0	ng/L							
Cl4-BZ#56	ND	2.0	ng/L							
Cl5-BZ#90/#101	ND	4.0	ng/L							
Cl5-BZ#113	ND	2.0	ng/L							
Cl4-BZ#60	ND	2.0	ng/L							
Cl5-BZ#99	ND	2.0	ng/L							
Cl6-BZ#150	ND	2.0	ng/L							
Cl6-BZ#152	ND	2.0	ng/L							
Cl5-BZ#119/#83	ND	4.0	ng/L							
Cl5-BZ#125/#112/#86	ND	6.0	ng/L							
Cl5-BZ#109	ND	2.0	ng/L							
Cl6-BZ#145	ND	2.0	ng/L							
Cl5-BZ#97	ND	2.0	ng/L							
Cl6-BZ#148	ND	2.0	ng/L							
Cl4-BZ#79	ND	2.0	ng/L							
Cl5-BZ#116	ND	4.0	ng/L							
Cl5-BZ#87	ND	2.0	ng/L							
Cl4-BZ#78	ND	2.0	ng/L							
Cl6-BZ#154/#136	ND	4.0	ng/L							
Cl5-BZ#111/#117/#115	ND	6.0	ng/L							
Cl5-BZ#85	ND	2.0	ng/L							
Cl5-BZ#120/#110	ND	4.0	ng/L							
Cl4-BZ#81	ND	2.0	ng/L							
Cl6-BZ#151	ND	2.0	ng/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175170 - SW-846 3510C										
Blank (B175170-BLK1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl6-BZ#135	ND	2.0	ng/L							
Cl5-BZ#82	ND	2.0	ng/L							
Cl6-BZ#144	ND	2.0	ng/L							
Cl6-BZ#147/#149	ND	4.0	ng/L							
Cl4-BZ#77	ND	2.0	ng/L							
Cl6-BZ#143/#139	ND	4.0	ng/L							
Cl6-BZ#140	ND	2.0	ng/L							
Cl5-BZ#124	ND	2.0	ng/L							
Cl5-BZ#108	ND	2.0	ng/L							
Cl5-BZ#123/#107	ND	4.0	ng/L							
Cl7-BZ#188	ND	2.0	ng/L							
Cl6-BZ#134	ND	2.0	ng/L							
Cl5-BZ#106	ND	2.0	ng/L							
Cl6-BZ#142	ND	2.0	ng/L							
Cl6-BZ#133/#131	ND	4.0	ng/L							
Cl5-BZ#118	ND	2.0	ng/L							
Cl7-BZ#184	ND	2.0	ng/L							
Cl6-BZ#165	ND	2.0	ng/L							
Cl6-BZ#146	ND	2.0	ng/L							
Cl5-BZ#122	ND	2.0	ng/L							
Cl6-BZ#161	ND	2.0	ng/L							
Cl5-BZ#114	ND	2.0	ng/L							
Cl6-BZ#168	ND	2.0	ng/L							
Cl6-BZ#153	ND	2.0	ng/L							
Cl6-BZ#132	ND	2.0	ng/L							
Cl7-BZ#179	ND	2.0	ng/L							
Cl6-BZ#141	ND	2.0	ng/L							
Cl7-BZ#176	ND	2.0	ng/L							
Cl5-BZ#105	ND	2.0	ng/L							Z-01
Cl6-BZ#137	ND	2.0	ng/L							
Cl7-BZ#186	ND	2.0	ng/L							
Cl5-BZ#127	ND	2.0	ng/L							
Cl6-BZ#130/#164	ND	4.0	ng/L							
Cl7-BZ#178	ND	2.0	ng/L							
Cl6-BZ#138	ND	2.0	ng/L							
Cl6-BZ#160/#129/#163	ND	6.0	ng/L							
Cl6-BZ#158	ND	2.0	ng/L							
Cl7-BZ#182/#175	ND	4.0	ng/L							
Cl7-BZ#187	ND	2.0	ng/L							
Cl7-BZ#183	ND	2.0	ng/L							
Cl6-BZ#166	ND	2.0	ng/L							
Cl6-BZ#159	ND	2.0	ng/L							
Cl5-BZ#126	ND	2.0	ng/L							Z-01
Cl7-BZ#185	ND	2.0	ng/L							
Cl6-BZ#128/#162	ND	4.0	ng/L							
Cl7-BZ#174	ND	2.0	ng/L							
Cl8-BZ#202	ND	3.0	ng/L							
Cl6-BZ#167	ND	2.0	ng/L							
Cl7-BZ#181	ND	2.0	ng/L							
Cl7-BZ#177	ND	2.0	ng/L							
Cl8-BZ#200/#204	ND	6.0	ng/L							
Cl7-BZ#171	ND	2.0	ng/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175170 - SW-846 3510C										
Blank (B175170-BLK1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl7-BZ#173	ND	2.0	ng/L							
Cl8-BZ#197	ND	3.0	ng/L							
Cl7-BZ#172	ND	2.0	ng/L							
Cl6-BZ#156	ND	2.0	ng/L							
Cl7-BZ#192	ND	2.0	ng/L							
Cl6-BZ#157	ND	2.0	ng/L							
Cl7-BZ#180	ND	2.0	ng/L							
Cl7-BZ#193	ND	2.0	ng/L							
Cl8-BZ#199	ND	3.0	ng/L							
Cl7-BZ#191	ND	2.0	ng/L							
Cl8-BZ#198	ND	3.0	ng/L							
Cl8-BZ#201	ND	3.0	ng/L							
Cl7-BZ#170	ND	2.0	ng/L							
Cl7-BZ#190	ND	2.0	ng/L							
Cl8-BZ#196	ND	3.0	ng/L							
Cl8-BZ#203	ND	3.0	ng/L							
Cl6-BZ#169	ND	2.0	ng/L							
Cl9-BZ#208	ND	3.0	ng/L							
Cl9-BZ#207	ND	3.0	ng/L							
Cl7-BZ#189	ND	2.0	ng/L							R-05
Cl8-BZ#195	ND	3.0	ng/L							R-05
Cl8-BZ#194	ND	3.0	ng/L							
Cl8-BZ#205	ND	3.0	ng/L							
Cl9-BZ#206	ND	3.0	ng/L							L-07A
Cl10-BZ#209	ND	3.0	ng/L							L-07A
Surrogate: Tetrachloro-m-xylene	*34.4*		ng/L	50.0		68.7	40-140			
LCS (B175170-BS1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl2-BZ#8	41.1	1.0	ng/L	50.0		82.2	40-140			
Cl3-BZ#18	45.5	1.0	ng/L	50.0		90.9	40-140			
Cl3-BZ#28	41.3	1.0	ng/L	50.0		82.5	40-140			
Cl4-BZ#52	42.3	2.0	ng/L	50.0		84.7	40-140			
Cl4-BZ#44	47.9	2.0	ng/L	50.0		95.8	40-140			
Cl4-BZ#66	38.8	2.0	ng/L	50.0		77.5	40-140			
Cl5-BZ#90/#101	50.6	4.0	ng/L	50.0		101	40-140			
Cl4-BZ#81	46.8	2.0	ng/L	50.0		93.7	40-140			
Cl5-BZ#123/#107	41.4	4.0	ng/L	50.0		82.8	40-140			
Cl5-BZ#118	56.1	2.0	ng/L	50.0		112	40-140			
Cl5-BZ#114	54.1	2.0	ng/L	50.0		108	40-140			
Cl6-BZ#153	52.3	2.0	ng/L	50.0		105	40-140			
Cl5-BZ#105	40.8	2.0	ng/L	50.0		81.5	40-140			Z-01
Cl6-BZ#138	52.6	2.0	ng/L	50.0		105	40-140			
Cl7-BZ#187	53.5	2.0	ng/L	50.0		107	40-140			
Cl5-BZ#126	44.0	2.0	ng/L	50.0		87.9	40-140			Z-01
Cl6-BZ#128/#162	43.0	4.0	ng/L	50.0		86.1	40-140			
Cl6-BZ#167	52.6	2.0	ng/L	50.0		105	40-140			
Cl6-BZ#156	54.2	2.0	ng/L	50.0		108	40-140			
Cl6-BZ#157	57.9	2.0	ng/L	50.0		116	40-140			
Cl7-BZ#180	60.6	2.0	ng/L	50.0		121	40-140			
Cl7-BZ#170	54.0	2.0	ng/L	50.0		108	40-140			
Cl6-BZ#169	62.1	2.0	ng/L	50.0		124	40-140			
Cl7-BZ#189	69.6	2.0	ng/L	50.0		139	40-140			R-05

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B175170 - SW-846 3510C												
LCS (B175170-BS1)				Prepared: 04/24/17 Analyzed: 05/05/17								
Cl8-BZ#195	63.5	3.0	ng/L	50.0		127		40-140				R-05
Cl9-BZ#206	79.7	3.0	ng/L	50.0		**159**	*	40-140				L-07A
Cl10-BZ#209	71.3	3.0	ng/L	50.0		**143**	*	40-140				L-07A
Surrogate: Tetrachloro-m-xylene	*47.1*		ng/L	50.0		94.3		40-140				
LCS Dup (B175170-BSD1)				Prepared: 04/24/17 Analyzed: 05/05/17								
Cl2-BZ#8	37.9	1.0	ng/L	50.0		75.9		40-140	8.04		30	
Cl3-BZ#18	42.6	1.0	ng/L	50.0		85.2		40-140	6.49		30	
Cl3-BZ#28	39.4	1.0	ng/L	50.0		78.9		40-140	4.54		30	
Cl4-BZ#52	40.5	2.0	ng/L	50.0		81.0		40-140	4.47		30	
Cl4-BZ#44	45.8	2.0	ng/L	50.0		91.7		40-140	4.33		30	
Cl4-BZ#66	37.5	2.0	ng/L	50.0		75.1		40-140	3.20		30	
Cl5-BZ#90/#101	42.2	4.0	ng/L	50.0		84.3		40-140	18.2		30	
Cl4-BZ#81	39.2	2.0	ng/L	50.0		78.4		40-140	17.8		30	
Cl5-BZ#123/#107	32.5	4.0	ng/L	50.0		65.0		40-140	24.1		30	
Cl5-BZ#118	46.3	2.0	ng/L	50.0		92.6		40-140	19.1		30	
Cl5-BZ#114	44.4	2.0	ng/L	50.0		88.9		40-140	19.6		30	
Cl6-BZ#153	42.7	2.0	ng/L	50.0		85.5		40-140	20.0		30	
Cl5-BZ#105	33.6	2.0	ng/L	50.0		67.2		40-140	19.3		30	Z-01
Cl6-BZ#138	42.8	2.0	ng/L	50.0		85.6		40-140	20.5		30	
Cl7-BZ#187	43.2	2.0	ng/L	50.0		86.4		40-140	21.3		30	
Cl5-BZ#126	37.6	2.0	ng/L	50.0		75.1		40-140	15.7		30	Z-01
Cl6-BZ#128/#162	36.4	4.0	ng/L	50.0		72.9		40-140	16.6		30	
Cl6-BZ#167	43.3	2.0	ng/L	50.0		86.7		40-140	19.2		30	
Cl6-BZ#156	44.2	2.0	ng/L	50.0		88.3		40-140	20.3		30	
Cl6-BZ#157	47.3	2.0	ng/L	50.0		94.7		40-140	20.0		30	
Cl7-BZ#180	48.8	2.0	ng/L	50.0		97.6		40-140	21.6		30	
Cl7-BZ#170	43.4	2.0	ng/L	50.0		86.8		40-140	21.8		30	
Cl6-BZ#169	51.1	2.0	ng/L	50.0		102		40-140	19.4		30	
Cl7-BZ#189	46.3	2.0	ng/L	50.0		92.6		40-140	**40.2**	*	30	R-05
Cl8-BZ#195	42.1	3.0	ng/L	50.0		84.3		40-140	**40.4**	*	30	R-05
Cl9-BZ#206	49.7	3.0	ng/L	50.0		99.5		40-140	**46.3**	*	30	L-07A
Cl10-BZ#209	43.8	3.0	ng/L	50.0		87.6		40-140	**47.8**	*	30	L-07A
Surrogate: Tetrachloro-m-xylene	*40.6*		ng/L	50.0		81.2		40-140				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175241 - SW-846 5030B										
Blank (B175241-BLK1)				Prepared & Analyzed: 04/25/17						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							L-04

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B175241 - SW-846 5030B											
Blank (B175241-BLK1)				Prepared & Analyzed: 04/25/17							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L								
Methyl Cyclohexane	ND	1.0	µg/L								
Methylene Chloride	ND	5.0	µg/L								
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L								
Naphthalene	ND	2.0	µg/L								
n-Propylbenzene	ND	1.0	µg/L								
Styrene	ND	1.0	µg/L								
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L								
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L								
Tetrachloroethylene	ND	1.0	µg/L								
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,3,5-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*24.1*		µg/L	25.0		96.5	70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130				
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.2	70-130				
LCS (B175241-BS1)				Prepared & Analyzed: 04/25/17							
Acetone	96.9	50	µg/L	100		96.9	70-160				†
Acrylonitrile	8.94	5.0	µg/L	10.0		89.4	70-130				
tert-Amyl Methyl Ether (TAME)	9.23	0.50	µg/L	10.0		92.3	70-130				
Benzene	8.77	1.0	µg/L	10.0		87.7	70-130				
Bromobenzene	9.47	1.0	µg/L	10.0		94.7	70-130				
Bromochloromethane	9.23	1.0	µg/L	10.0		92.3	70-130				
Bromodichloromethane	9.76	0.50	µg/L	10.0		97.6	70-130				
Bromoform	9.57	1.0	µg/L	10.0		95.7	70-130				
Bromomethane	4.57	2.0	µg/L	10.0		45.7	40-160			L-14	†
2-Butanone (MEK)	83.7	20	µg/L	100		83.7	40-160				†
tert-Butyl Alcohol (TBA)	74.9	20	µg/L	100		74.9	40-160				†
n-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130				
sec-Butylbenzene	9.55	1.0	µg/L	10.0		95.5	70-130				
tert-Butylbenzene	9.36	1.0	µg/L	10.0		93.6	70-130				
tert-Butyl Ethyl Ether (TBEE)	9.44	0.50	µg/L	10.0		94.4	70-130				
Carbon Disulfide	12.6	4.0	µg/L	10.0		126	70-130				
Carbon Tetrachloride	9.48	5.0	µg/L	10.0		94.8	70-130				
Chlorobenzene	9.21	1.0	µg/L	10.0		92.1	70-130				
Chlorodibromomethane	9.64	0.50	µg/L	10.0		96.4	70-130				
Chloroethane	8.66	2.0	µg/L	10.0		86.6	70-130				
Chloroform	9.62	2.0	µg/L	10.0		96.2	70-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B175241 - SW-846 5030B												
LCS (B175241-BS1)				Prepared & Analyzed: 04/25/17								
Chloromethane	4.40	2.0	µg/L	10.0		44.0		40-160			L-14	†
2-Chlorotoluene	8.53	1.0	µg/L	10.0		85.3		70-130				
4-Chlorotoluene	9.42	1.0	µg/L	10.0		94.2		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.8	5.0	µg/L	10.0		108		70-130				
1,2-Dibromoethane (EDB)	9.34	0.50	µg/L	10.0		93.4		70-130				
Dibromomethane	9.73	1.0	µg/L	10.0		97.3		70-130				
1,2-Dichlorobenzene	9.52	1.0	µg/L	10.0		95.2		70-130				
1,3-Dichlorobenzene	9.46	1.0	µg/L	10.0		94.6		70-130				
1,4-Dichlorobenzene	9.09	1.0	µg/L	10.0		90.9		70-130				
trans-1,4-Dichloro-2-butene	10.6	2.0	µg/L	10.0		106		70-130				
Dichlorodifluoromethane (Freon 12)	5.55	2.0	µg/L	10.0		55.5		40-160			L-14	†
1,1-Dichloroethane	9.58	1.0	µg/L	10.0		95.8		70-130				
1,2-Dichloroethane	8.94	1.0	µg/L	10.0		89.4		70-130				
1,1-Dichloroethylene	8.64	1.0	µg/L	10.0		86.4		70-130				
cis-1,2-Dichloroethylene	9.08	1.0	µg/L	10.0		90.8		70-130				
trans-1,2-Dichloroethylene	8.68	1.0	µg/L	10.0		86.8		70-130				
1,2-Dichloropropane	8.64	1.0	µg/L	10.0		86.4		70-130				
1,3-Dichloropropane	8.73	0.50	µg/L	10.0		87.3		70-130				
2,2-Dichloropropane	9.81	1.0	µg/L	10.0		98.1		40-130				†
1,1-Dichloropropene	8.74	2.0	µg/L	10.0		87.4		70-130				
cis-1,3-Dichloropropene	9.05	0.50	µg/L	10.0		90.5		70-130				
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130				
Diethyl Ether	8.97	2.0	µg/L	10.0		89.7		70-130				
Diisopropyl Ether (DIPE)	8.90	0.50	µg/L	10.0		89.0		70-130				
1,4-Dioxane	112	50	µg/L	100		112		40-130			V-16	†
Ethylbenzene	9.46	1.0	µg/L	10.0		94.6		70-130				
Hexachlorobutadiene	10.9	0.60	µg/L	10.0		109		70-130				
2-Hexanone (MBK)	90.3	10	µg/L	100		90.3		70-160				†
Isopropylbenzene (Cumene)	9.83	1.0	µg/L	10.0		98.3		70-130				
p-Isopropyltoluene (p-Cymene)	9.62	1.0	µg/L	10.0		96.2		70-130				
Methyl Acetate	6.13	1.0	µg/L	10.0		**61.3**	*	70-130			L-04	
Methyl tert-Butyl Ether (MTBE)	9.49	1.0	µg/L	10.0		94.9		70-130				
Methyl Cyclohexane	9.30	1.0	µg/L	10.0		93.0		70-130				
Methylene Chloride	9.74	5.0	µg/L	10.0		97.4		70-130				
4-Methyl-2-pentanone (MIBK)	88.1	10	µg/L	100		88.1		70-160				†
Naphthalene	9.60	2.0	µg/L	10.0		96.0		40-130				†
n-Propylbenzene	9.78	1.0	µg/L	10.0		97.8		70-130				
Styrene	9.51	1.0	µg/L	10.0		95.1		70-130				
1,1,1,2-Tetrachloroethane	9.71	1.0	µg/L	10.0		97.1		70-130				
1,1,2,2-Tetrachloroethane	9.81	0.50	µg/L	10.0		98.1		70-130				
Tetrachloroethylene	9.57	1.0	µg/L	10.0		95.7		70-130				
Tetrahydrofuran	9.37	10	µg/L	10.0		93.7		70-130				
Toluene	9.20	1.0	µg/L	10.0		92.0		70-130				
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.0		108		70-130				
1,2,4-Trichlorobenzene	9.90	1.0	µg/L	10.0		99.0		70-130				
1,3,5-Trichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
1,1,1-Trichloroethane	9.37	1.0	µg/L	10.0		93.7		70-130				
1,1,2-Trichloroethane	9.49	1.0	µg/L	10.0		94.9		70-130				
Trichloroethylene	9.67	1.0	µg/L	10.0		96.7		70-130				
Trichlorofluoromethane (Freon 11)	8.55	2.0	µg/L	10.0		85.5		70-130				
1,2,3-Trichloropropane	9.17	2.0	µg/L	10.0		91.7		70-130				

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B175241 - SW-846 5030B											
LCS (B175241-BS1)				Prepared & Analyzed: 04/25/17							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.55	1.0	µg/L	10.0		85.5	70-130				
1,2,4-Trimethylbenzene	9.04	1.0	µg/L	10.0		90.4	70-130				
1,3,5-Trimethylbenzene	9.50	1.0	µg/L	10.0		95.0	70-130				
Vinyl Chloride	7.87	2.0	µg/L	10.0		78.7	40-160				†
m+p Xylene	18.8	2.0	µg/L	20.0		94.2	70-130				
o-Xylene	9.35	1.0	µg/L	10.0		93.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.7	70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130				
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130				
LCS Dup (B175241-BSD1)				Prepared & Analyzed: 04/25/17							
Acetone	103	50	µg/L	100		103	70-160	5.75	25		†
Acrylonitrile	10.1	5.0	µg/L	10.0		101	70-130	11.9	25		
tert-Amyl Methyl Ether (TAME)	9.36	0.50	µg/L	10.0		93.6	70-130	1.40	25		
Benzene	9.06	1.0	µg/L	10.0		90.6	70-130	3.25	25		
Bromobenzene	9.35	1.0	µg/L	10.0		93.5	70-130	1.28	25		
Bromochloromethane	9.24	1.0	µg/L	10.0		92.4	70-130	0.108	25		
Bromodichloromethane	9.35	0.50	µg/L	10.0		93.5	70-130	4.29	25		
Bromoform	9.72	1.0	µg/L	10.0		97.2	70-130	1.56	25		
Bromomethane	4.70	2.0	µg/L	10.0		47.0	40-160	2.80	25	L-14	†
2-Butanone (MEK)	91.3	20	µg/L	100		91.3	40-160	8.59	25		†
tert-Butyl Alcohol (TBA)	84.1	20	µg/L	100		84.1	40-160	11.6	25		†
n-Butylbenzene	10.2	1.0	µg/L	10.0		102	70-130	1.47	25		
sec-Butylbenzene	9.46	1.0	µg/L	10.0		94.6	70-130	0.947	25		
tert-Butylbenzene	9.18	1.0	µg/L	10.0		91.8	70-130	1.94	25		
tert-Butyl Ethyl Ether (TBEE)	9.63	0.50	µg/L	10.0		96.3	70-130	1.99	25		
Carbon Disulfide	12.3	4.0	µg/L	10.0		123	70-130	2.89	25		
Carbon Tetrachloride	9.34	5.0	µg/L	10.0		93.4	70-130	1.49	25		
Chlorobenzene	9.11	1.0	µg/L	10.0		91.1	70-130	1.09	25		
Chlorodibromomethane	9.26	0.50	µg/L	10.0		92.6	70-130	4.02	25		
Chloroethane	8.72	2.0	µg/L	10.0		87.2	70-130	0.690	25		
Chloroform	9.43	2.0	µg/L	10.0		94.3	70-130	1.99	25		
Chloromethane	4.90	2.0	µg/L	10.0		49.0	40-160	10.8	25	L-14	†
2-Chlorotoluene	8.43	1.0	µg/L	10.0		84.3	70-130	1.18	25		
4-Chlorotoluene	9.41	1.0	µg/L	10.0		94.1	70-130	0.106	25		
1,2-Dibromo-3-chloropropane (DBCP)	11.1	5.0	µg/L	10.0		111	70-130	2.56	25		
1,2-Dibromoethane (EDB)	9.61	0.50	µg/L	10.0		96.1	70-130	2.85	25		
Dibromomethane	9.47	1.0	µg/L	10.0		94.7	70-130	2.71	25		
1,2-Dichlorobenzene	9.40	1.0	µg/L	10.0		94.0	70-130	1.27	25		
1,3-Dichlorobenzene	9.23	1.0	µg/L	10.0		92.3	70-130	2.46	25		
1,4-Dichlorobenzene	8.83	1.0	µg/L	10.0		88.3	70-130	2.90	25		
trans-1,4-Dichloro-2-butene	10.3	2.0	µg/L	10.0		103	70-130	2.58	25		
Dichlorodifluoromethane (Freon 12)	5.81	2.0	µg/L	10.0		58.1	40-160	4.58	25	L-14	†
1,1-Dichloroethane	9.39	1.0	µg/L	10.0		93.9	70-130	2.00	25		
1,2-Dichloroethane	8.73	1.0	µg/L	10.0		87.3	70-130	2.38	25		
1,1-Dichloroethylene	8.57	1.0	µg/L	10.0		85.7	70-130	0.813	25		
cis-1,2-Dichloroethylene	9.00	1.0	µg/L	10.0		90.0	70-130	0.885	25		
trans-1,2-Dichloroethylene	8.70	1.0	µg/L	10.0		87.0	70-130	0.230	25		
1,2-Dichloropropane	8.55	1.0	µg/L	10.0		85.5	70-130	1.05	25		
1,3-Dichloropropane	8.52	0.50	µg/L	10.0		85.2	70-130	2.43	25		
2,2-Dichloropropane	9.54	1.0	µg/L	10.0		95.4	40-130	2.79	25		†
1,1-Dichloropropene	8.58	2.0	µg/L	10.0		85.8	70-130	1.85	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B175241 - SW-846 5030B												
LCS Dup (B175241-BSD1)				Prepared & Analyzed: 04/25/17								
cis-1,3-Dichloropropene	8.67	0.50	µg/L	10.0		86.7		70-130	4.29	25		
trans-1,3-Dichloropropene	10.6	0.50	µg/L	10.0		106		70-130	0.755	25		
Diethyl Ether	9.21	2.0	µg/L	10.0		92.1		70-130	2.64	25		
Diisopropyl Ether (DIPE)	8.84	0.50	µg/L	10.0		88.4		70-130	0.676	25		
1,4-Dioxane	110	50	µg/L	100		110		40-130	2.02	50	V-16	† ‡
Ethylbenzene	9.26	1.0	µg/L	10.0		92.6		70-130	2.14	25		
Hexachlorobutadiene	10.4	0.60	µg/L	10.0		104		70-130	4.04	25		
2-Hexanone (MBK)	94.0	10	µg/L	100		94.0		70-160	3.96	25		†
Isopropylbenzene (Cumene)	9.91	1.0	µg/L	10.0		99.1		70-130	0.811	25		
p-Isopropyltoluene (p-Cymene)	9.48	1.0	µg/L	10.0		94.8		70-130	1.47	25		
Methyl Acetate	6.27	1.0	µg/L	10.0		**62.7**	*	70-130	2.26	25	L-04	
Methyl tert-Butyl Ether (MTBE)	9.87	1.0	µg/L	10.0		98.7		70-130	3.93	25		
Methyl Cyclohexane	8.97	1.0	µg/L	10.0		89.7		70-130	3.61	25		
Methylene Chloride	10.1	5.0	µg/L	10.0		101		70-130	3.73	25		
4-Methyl-2-pentanone (MIBK)	92.4	10	µg/L	100		92.4		70-160	4.79	25		†
Naphthalene	10.6	2.0	µg/L	10.0		106		40-130	10.0	25		†
n-Propylbenzene	9.63	1.0	µg/L	10.0		96.3		70-130	1.55	25		
Styrene	9.36	1.0	µg/L	10.0		93.6		70-130	1.59	25		
1,1,1,2-Tetrachloroethane	9.42	1.0	µg/L	10.0		94.2		70-130	3.03	25		
1,1,2,2-Tetrachloroethane	10.0	0.50	µg/L	10.0		100		70-130	2.22	25		
Tetrachloroethylene	9.57	1.0	µg/L	10.0		95.7		70-130	0.00	25		
Tetrahydrofuran	9.73	10	µg/L	10.0		97.3		70-130	3.77	25		
Toluene	9.07	1.0	µg/L	10.0		90.7		70-130	1.42	25		
1,2,3-Trichlorobenzene	11.7	5.0	µg/L	10.0		117		70-130	8.26	25		
1,2,4-Trichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130	3.86	25		
1,3,5-Trichlorobenzene	10.4	1.0	µg/L	10.0		104		70-130	1.26	25		
1,1,1-Trichloroethane	9.39	1.0	µg/L	10.0		93.9		70-130	0.213	25		
1,1,2-Trichloroethane	9.57	1.0	µg/L	10.0		95.7		70-130	0.839	25		
Trichloroethylene	9.29	1.0	µg/L	10.0		92.9		70-130	4.01	25		
Trichlorofluoromethane (Freon 11)	8.16	2.0	µg/L	10.0		81.6		70-130	4.67	25		
1,2,3-Trichloropropane	9.61	2.0	µg/L	10.0		96.1		70-130	4.69	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.32	1.0	µg/L	10.0		83.2		70-130	2.73	25		
1,2,4-Trimethylbenzene	9.06	1.0	µg/L	10.0		90.6		70-130	0.221	25		
1,3,5-Trimethylbenzene	9.65	1.0	µg/L	10.0		96.5		70-130	1.57	25		
Vinyl Chloride	7.77	2.0	µg/L	10.0		77.7		40-160	1.28	25		†
m+p Xylene	18.7	2.0	µg/L	20.0		93.3		70-130	0.907	25		
o-Xylene	9.49	1.0	µg/L	10.0		94.9		70-130	1.49	25		
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		102		70-130				
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.5		70-130				
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103		70-130				

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175068 - SW-846 3510C										
Blank (B175068-BLK1)				Prepared: 04/21/17 Analyzed: 04/24/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.61*		µg/L	2.00		80.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.58*		µg/L	2.00		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.58*		µg/L	2.00		78.9	30-150			
LCS (B175068-BS1)				Prepared: 04/21/17 Analyzed: 04/24/17						
Aroclor-1016	0.47	0.20	µg/L	0.500		94.5	40-140			
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		95.5	40-140			
Aroclor-1260	0.43	0.20	µg/L	0.500		85.4	40-140			
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		85.1	40-140			
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.60*		µg/L	2.00		80.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.53*		µg/L	2.00		76.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.51*		µg/L	2.00		75.7	30-150			
LCS Dup (B175068-BSD1)				Prepared: 04/21/17 Analyzed: 04/24/17						
Aroclor-1016	0.55	0.20	µg/L	0.500		109	40-140	14.6	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		111	40-140	15.3	20	
Aroclor-1260	0.45	0.20	µg/L	0.500		90.0	40-140	5.23	20	
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.1	40-140	6.82	20	
Surrogate: Decachlorobiphenyl	*1.91*		µg/L	2.00		95.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.82*		µg/L	2.00		91.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.75*		µg/L	2.00		87.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.73*		µg/L	2.00		86.3	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

MP-3S

Lab Sample ID: 17D0859-01

Date(s) Analyzed: 04/25/2017 04/25/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	9.0	
	2	0.000	0.000	0.000	9.0	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

MP-3I

Lab Sample ID: 17D0859-02 Date(s) Analyzed: 04/24/2017 04/24/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	0.28	
	2	0.000	0.000	0.000	0.33	16.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

MW-34S

Lab Sample ID: 17D0859-05 Date(s) Analyzed: 04/24/2017 04/24/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	0.23	
	2	0.000	0.000	0.000	0.35	41.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B175068-BS1

Date(s) Analyzed: 04/24/2017 04/24/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.47	
	2	0.000	0.000	0.000	0.48	2.1
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.43	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B175068-BSD1 Date(s) Analyzed: 04/24/2017 04/24/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.55	
	2	0.000	0.000	0.000	0.56	1.8
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.46	2.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
Z-01	Initial calibration verification did not meet method specifications. Increased uncertainty is associated with the reported value

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260C in Water	
Acetone	CT,NY,ME,NH,VA
Acrylonitrile	CT,NY,ME,NH,VA
tert-Amyl Methyl Ether (TAME)	NY,ME,NH,VA
Benzene	CT,NY,ME,NH,VA
Bromobenzene	NY
Bromochloromethane	NY,ME,NH,VA
Bromodichloromethane	CT,NY,ME,NH,VA
Bromoform	CT,NY,ME,NH,VA
Bromomethane	CT,NY,ME,NH,VA
2-Butanone (MEK)	CT,NY,ME,NH,VA
tert-Butyl Alcohol (TBA)	NY,ME,NH,VA
n-Butylbenzene	NY,ME,VA
sec-Butylbenzene	NY,ME,VA
tert-Butylbenzene	NY,ME,VA
tert-Butyl Ethyl Ether (TBEE)	NY,ME,NH,VA
Carbon Disulfide	CT,NY,ME,NH,VA
Carbon Tetrachloride	CT,NY,ME,NH,VA
Chlorobenzene	CT,NY,ME,NH,VA
Chlorodibromomethane	CT,NY,ME,NH,VA
Chloroethane	CT,NY,ME,NH,VA
Chloroform	CT,NY,ME,NH,VA
Chloromethane	CT,NY,ME,NH,VA
2-Chlorotoluene	NY,ME,NH,VA
4-Chlorotoluene	NY,ME,NH,VA
Dibromomethane	NY,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
1,4-Dichlorobenzene	CT,NY,ME,NH,VA
trans-1,4-Dichloro-2-butene	NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH,VA
1,1-Dichloroethane	CT,NY,ME,NH,VA
1,2-Dichloroethane	CT,NY,ME,NH,VA
1,1-Dichloroethylene	CT,NY,ME,NH,VA
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NY,ME,NH,VA
1,2-Dichloropropane	CT,NY,ME,NH,VA
1,3-Dichloropropane	NY,ME,VA
2,2-Dichloropropane	NY,ME,NH,VA
1,1-Dichloropropene	NY,ME,NH,VA
cis-1,3-Dichloropropene	CT,NY,ME,NH,VA
trans-1,3-Dichloropropene	CT,NY,ME,NH,VA
Diethyl Ether	NY
Diisopropyl Ether (DIPE)	NY,ME,NH,VA
1,4-Dioxane	NY
Ethylbenzene	CT,NY,ME,NH,VA
Hexachlorobutadiene	CT,NY,ME,NH,VA
2-Hexanone (MBK)	CT,NY,ME,NH,VA
Isopropylbenzene (Cumene)	NY,ME,VA
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA
Naphthalene	NY,ME,NH,VA
n-Propylbenzene	CT,NY,ME,NH,VA
Styrene	CT,NY,ME,NH,VA
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA
Tetrachloroethylene	CT,NY,ME,NH,VA
Toluene	CT,NY,ME,NH,VA
1,2,3-Trichlorobenzene	NY,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA
1,1,2-Trichloroethane	CT,NY,ME,NH,VA
Trichloroethylene	CT,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA
1,2,3-Trichloropropane	NY,ME,NH,VA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA
1,2,4-Trimethylbenzene	NY,ME,VA
1,3,5-Trimethylbenzene	NY,ME,VA
Vinyl Chloride	CT,NY,ME,NH,VA
m+p Xylene	CT,ME,NH,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
o-Xylene	CT,ME,NH,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

17D0859

Rev 04.05.12

39 Spruce Street
East Longmeadow, MA 01028

Company Name: AEI
Address: 112 Water St, 5th Floor
Boston, MA 02109
Attention: Rick Kowalski
Project Location: BASF Cranston, 180 Mill St. Cranston RI
Sampled By: A. Ting / R. Medaglio

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Telephone: 857-350-3519
Project #: 3636655
Client PO#: 130275

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: see note 1
Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER _____
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs (8260)	PCB Aroclors (8082)	PCB Congeners (8270)										# of Containers	** Preservation	***Container Code
																				23	12	6
																				H	E	I
																				V	A	A
01	MP-3S	4/19/17	0905		X	GW	U	X	X	X												
02	MP-3I	↓	1007		↓	↓	↓	X	X	X												
03	MW-102S		1105					X	X	X												
04	MW-102D		1225					X	X													
05	MW-34S		1400					X	X													
06	MW-34D		1530					X	X													
07	MW 302S	↓	1621					X														
08	Trip Blank	↓	—		↓	↓	↓	X														

ANALYSIS REQUESTED

Comments: note 1: email rkowalski@aeiconsultants.com
sgraham @ " "
ating @ " "

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Dissolved Metals
○ Field Filtered
○ Lab to Filter

Relinquished by: (signature)	4/19/17	Date/Time: 1634
Received by: (signature)	4-19-17	Date/Time: 1634
Relinquished by: (signature)	4-19-17	Date/Time: 7:00
Received by: (signature)	4-19-17	Date/Time: 6:00

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5-day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

4/19/17 19:00 5.2°C #2

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: AEI **RECEIVED BY:** KK **DATE:** 4/19/17

1) Was the chain(s) of custody relinquished and signed? Yes ✓ No ____ **No COC Incl.**

2) Does the chain agree with the samples? Yes ✓ No ____

If not, explain:

3) Are all the samples in good condition? Yes ✓ No ____

If not, explain:

4) How were the samples received:

On Ice ✓ Direct from Sampling ____ Ambient ____ In Cooler(s) ✓

Were the samples received in Temperature Compliance of (2-6°C)? Yes ✓ No ____ N/A ____

Temperature °C by Temp blank — # ____ Temperature °C by Temp gun 5.2°C # 2

5) Are there Dissolved samples for the lab to filter? Yes ____ No ✓

Who was notified ____ Date ____ Time ____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes ____ No ✓

Who was notified ____ Date ____ Time ____

7) Location where samples are stored: Log-in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) Do all samples have the proper Acid pH: Yes ____ No ____ N/A ✓

9) Do all samples have the proper Base pH: Yes ____ No ____ N/A ✓

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes ____ N/A ✓

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	18 (unp)	16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below	~~20~~ 23	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl ~~20~~ 23 # Methanol ____

Bisulfate ____ # DI Water ____

Thiosulfate ____ Unpreserved ____

Time and Date Frozen:

Doc# 277
Rev. 4 August 2013

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** KK **Date/Time:** 4/19/17 19:00

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 8, 2017

Aaron Ting
AEI - Boston, MA
112 Water Street, 5th Floor
Boston, MA 02109

Project Location: 180 Mill St. Cranston, RI
Client Job Number:
Project Number: 363655
Laboratory Work Order Number: 17D0925

Enclosed are results of analyses for samples received by the laboratory on April 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 7

17D0925-01 7

17D0925-02 13

17D0925-03 14

17D0925-04 20

17D0925-05 21

17D0925-06 22

Sample Preparation Information 24

QC Data 25

*** DEFAULT GENERAL METHOD *** 25

B175170 25

Volatile Organic Compounds by GC/MS 30

B175343 30

Polychlorinated Biphenyls By GC/ECD 35

B175068 35

Dual Column RPD Report 36

Flag/Qualifier Summary 38

Certifications 39

Chain of Custody/Sample Receipt 42

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

AEI - Boston, MA
112 Water Street, 5th Floor
Boston, MA 02109
ATTN: Aaron Ting

REPORT DATE: 5/8/2017

PURCHASE ORDER NUMBER: 130275

PROJECT NUMBER: 363655

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17D0925

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 180 Mill St. Cranston, RI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-12S	17D0925-01	Ground Water		SW-846 8082A	
				SW846-8270M	
DUP-1	17D0925-02	Ground Water		SW-846 8082A	
MW-2S	17D0925-03	Ground Water		SW-846 8082A	
				SW846-8270M	
MW-31S	17D0925-04	Ground Water		SW-846 8082A	
MW-31D	17D0925-05	Ground Water		SW-846 8082A	
MW-302D	17D0925-06	Ground Water		SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8082A

Qualifications:

S-13

Surrogate recovery is outside of control limits on both columns.
Data validation is not affected since all results are "not detected" and bias is on the high side.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17D0925-03[MW-2S]

Decachlorobiphenyl [2C]
17D0925-03[MW-2S]

Tetrachloro-m-xylene
17D0925-03[MW-2S]

Tetrachloro-m-xylene [2C]
17D0925-03[MW-2S]

SW-846 8260C

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Carbon Disulfide
B175343-BS1, B175343-BSD1

Methyl Acetate
B175343-BS1, B175343-BSD1

RL-11

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

17D0925-06[MW-302D]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Naphthalene
17D0925-06[MW-302D], B175343-BLK1, B175343-BS1, B175343-BSD1

trans-1,4-Dichloro-2-butene
17D0925-06[MW-302D], B175343-BLK1, B175343-BS1, B175343-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Acetone
B175343-BS1, B175343-BSD1

Bromomethane
B175343-BS1, B175343-BSD1

Chloromethane
B175343-BS1, B175343-BSD1

SW846-8270M

Qualifications:

L-07A

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Cl10-BZ#209
17D0925-01[MW-12S], 17D0925-03[MW-2S], B175170-BLK1, B175170-BS1, B175170-BSD1

Cl9-BZ#206
17D0925-01[MW-12S], 17D0925-03[MW-2S], B175170-BLK1, B175170-BS1, B175170-BSD1

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Cl7-BZ#189

17D0925-01[MW-12S], 17D0925-03[MW-2S], B175170-BLK1, B175170-BS1, B175170-BSD1

Cl8-BZ#195

17D0925-01[MW-12S], 17D0925-03[MW-2S], B175170-BLK1, B175170-BS1, B175170-BSD1

Z-01

Initial calibration verification did not meet method specifications. Increased uncertainty is associated with the reported value

Analyte & Samples(s) Qualified:

Cl5-BZ#105

17D0925-01[MW-12S], 17D0925-03[MW-2S], B175170-BLK1, B175170-BS1, B175170-BSD1

Cl5-BZ#126

17D0925-01[MW-12S], 17D0925-03[MW-2S], B175170-BLK1, B175170-BS1, B175170-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-12S
Sampled: 4/20/2017 09:15

Sample ID: 17D0925-01

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl1-BZ#1	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl1-BZ#2	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl1-BZ#3	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#4/#10	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#9	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#7	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#6	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#5	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#8	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#19	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#14	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#30	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#18	2.0	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#11	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#17	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#12	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#27	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#13	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#24	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#16	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#32	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl2-BZ#15	1.3	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#34	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#54	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#23	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#29	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#50	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#26	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#25	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#53	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#31	1.5	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#28	1.3	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#33/#21/#20	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#51	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#45	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#22	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#46	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#73	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#69	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#43	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#36	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#52	18	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#48	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#49	3.3	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-12S
Sampled: 4/20/2017 09:15

Sample ID: 17D0925-01

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#104	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#47/#65/#62	ND	6.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#75	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#39	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#38	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#44	8.2	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#59	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#42	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#71	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#35	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#41	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#96	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#72	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#103	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#64	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#40/#68	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl3-BZ#37	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#100	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#94	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#57	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#67/#58	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#102	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#61	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#98	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#93	ND	6.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#76	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#63	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#88/#95	13	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#121	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#74	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#155	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#70	5.6	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#91	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#66	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#80/#55	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#92	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#89/#84	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#56	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#90/#101	13	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#113	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#60	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#99	2.7	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#150	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#152	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925
Date Received: 4/20/2017
Field Sample #: MW-12S
Sampled: 4/20/2017 09:15
Sample ID: 17D0925-01
Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#119/#83	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#125/#112/#86	ND	6.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#109	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#145	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#97	2.8	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#148	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#79	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#116	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#87	4.0	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#78	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#154/#136	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#111/#117/#115	ND	6.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#85	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#120/#110	8.9	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#81	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#151	3.2	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#135	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#82	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#144	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#147/#149	8.8	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl4-BZ#77	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#143/#139	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#140	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#124	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#108	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#123/#107	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#188	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#134	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#106	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#142	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#133/#131	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#118	5.2	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#184	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#165	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#146	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#122	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#161	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#114	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#168	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#153	8.8	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#132	3.1	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#179	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#141	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#176	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925
Date Received: 4/20/2017
Field Sample #: MW-12S
Sampled: 4/20/2017 09:15
Sample ID: 17D0925-01
Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#105	ND	2.2	ng/L	1	Z-01	SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#137	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#186	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#127	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#130/#164	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#178	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#138	5.8	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#160/#129/#163	ND	6.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#158	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#182/#175	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#187	2.8	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#183	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#166	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#159	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl5-BZ#126	ND	2.2	ng/L	1	Z-01	SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#185	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#128/#162	ND	4.3	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#174	2.4	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#202	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#167	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#181	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#177	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#200/#204	ND	6.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#171	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#173	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#197	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#172	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#156	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#192	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#157	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#180	4.8	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#193	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#199	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#191	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#198	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#201	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#170	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl7-BZ#190	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#196	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#203	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl6-BZ#169	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl9-BZ#208	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl9-BZ#207	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-12S
Sampled: 4/20/2017 09:15

Sample ID: 17D0925-01

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl7-BZ#189	ND	2.2	ng/L	1	R-05	SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#195	ND	3.2	ng/L	1	R-05	SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#194	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl8-BZ#205	ND	3.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl9-BZ#206	ND	3.2	ng/L	1	L-07A	SW846-8270M	4/24/17	5/5/17 19:24	CJM
Cl10-BZ#209	ND	3.2	ng/L	1	L-07A	SW846-8270M	4/24/17	5/5/17 19:24	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	83.2	40-140		5/5/17 19:24

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925
Date Received: 4/20/2017
Field Sample #: MW-12S
Sampled: 4/20/2017 09:15
Sample ID: 17D0925-01
Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 11:40	JMB
Aroclor-1221 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 11:40	JMB
Aroclor-1232 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 11:40	JMB
Aroclor-1242 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 11:40	JMB
Aroclor-1248 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 11:40	JMB
Aroclor-1254 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 11:40	JMB
Aroclor-1260 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 11:40	JMB
Aroclor-1262 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 11:40	JMB
Aroclor-1268 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 11:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.6	30-150		4/26/17 11:40
Decachlorobiphenyl [2]	80.0	30-150		4/26/17 11:40
Tetrachloro-m-xylene [1]	92.9	30-150		4/26/17 11:40
Tetrachloro-m-xylene [2]	94.7	30-150		4/26/17 11:40

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: DUP-1
Sampled: 4/20/2017 00:00

Sample ID: 17D0925-02

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.0	30-150		4/26/17 15:28
Decachlorobiphenyl [2]	75.4	30-150		4/26/17 15:28
Tetrachloro-m-xylene [1]	84.0	30-150		4/26/17 15:28
Tetrachloro-m-xylene [2]	87.4	30-150		4/26/17 15:28

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-2S
Sampled: 4/20/2017 11:05

Sample ID: 17D0925-03

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl1-BZ#1	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl1-BZ#2	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl1-BZ#3	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#4/#10	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#9	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#7	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#6	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#5	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#8	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#19	5.7	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#14	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#30	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#18	8.2	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#11	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#17	6.5	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#12	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#27	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#13	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#24	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#16	2.0	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#32	7.6	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl2-BZ#15	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#34	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#54	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#23	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#29	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#50	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#26	1.3	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#25	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#53	3.7	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#31	5.4	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#28	12	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#33/#21/#20	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#51	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#45	2.7	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#22	1.4	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#46	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#73	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#69	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#43	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#36	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#52	20	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#48	2.6	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#49	12	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-2S
Sampled: 4/20/2017 11:05

Sample ID: 17D0925-03

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#104	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#47/#65/#62	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#75	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#39	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#38	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#44	15	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#59	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#42	5.1	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#71	4.3	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#35	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#41	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#96	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#72	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#103	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#64	7.0	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#40/#68	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl3-BZ#37	ND	1.1	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#100	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#94	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#57	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#67/#58	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#102	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#61	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#98	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#93	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#76	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#63	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#88/#95	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#121	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#74	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#155	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#70	6.6	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#91	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#66	7.4	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#80/#55	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#92	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#89/#84	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#56	2.6	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#90/#101	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#113	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#60	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#99	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#150	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#152	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-2S
Sampled: 4/20/2017 11:05

Sample ID: 17D0925-03

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#119/#83	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#125/#112/#86	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#109	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#145	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#97	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#148	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#79	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#116	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#87	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#78	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#154/#136	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#111/#117/#115	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#85	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#120/#110	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#81	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#151	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#135	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#82	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#144	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#147/#149	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl4-BZ#77	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#143/#139	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#140	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#124	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#108	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#123/#107	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#188	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#134	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#106	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#142	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#133/#131	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#118	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#184	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#165	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#146	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#122	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#161	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#114	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#168	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#153	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#132	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#179	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#141	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#176	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925
Date Received: 4/20/2017
Field Sample #: MW-2S
Sampled: 4/20/2017 11:05
Sample ID: 17D0925-03
Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl5-BZ#105	ND	2.2	ng/L	1	Z-01	SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#137	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#186	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#127	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#130/#164	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#178	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#138	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#160/#129/#163	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#158	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#182/#175	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#187	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#183	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#166	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#159	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl5-BZ#126	ND	2.2	ng/L	1	Z-01	SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#185	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#128/#162	ND	4.5	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#174	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#202	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#167	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#181	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#177	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#200/#204	ND	6.7	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#171	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#173	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#197	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#172	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#156	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#192	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#157	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#180	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#193	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#199	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#191	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#198	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#201	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#170	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl7-BZ#190	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#196	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#203	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl6-BZ#169	ND	2.2	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl9-BZ#208	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl9-BZ#207	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-2S
Sampled: 4/20/2017 11:05

Sample ID: 17D0925-03

Sample Matrix: Ground Water

***** DEFAULT GENERAL METHOD *****

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cl7-BZ#189	ND	2.2	ng/L	1	R-05	SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#195	ND	3.4	ng/L	1	R-05	SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#194	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl8-BZ#205	ND	3.4	ng/L	1		SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl9-BZ#206	ND	3.4	ng/L	1	L-07A	SW846-8270M	4/24/17	5/5/17 21:10	CJM
Cl10-BZ#209	ND	3.4	ng/L	1	L-07A	SW846-8270M	4/24/17	5/5/17 21:10	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Tetrachloro-m-xylene	79.9	40-140		5/5/17 21:10

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-2S
Sampled: 4/20/2017 11:05

Sample ID: 17D0925-03

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:46	JMB
Aroclor-1221 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:46	JMB
Aroclor-1232 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:46	JMB
Aroclor-1242 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:46	JMB
Aroclor-1248 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:46	JMB
Aroclor-1254 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:46	JMB
Aroclor-1260 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:46	JMB
Aroclor-1262 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:46	JMB
Aroclor-1268 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 15:46	JMB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	**169**	*	30-150	S-13	4/26/17 15:46
Decachlorobiphenyl [2]	**165**	*	30-150	S-13	4/26/17 15:46
Tetrachloro-m-xylene [1]	**182**	*	30-150	S-13	4/26/17 15:46
Tetrachloro-m-xylene [2]	**184**	*	30-150	S-13	4/26/17 15:46

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-31S
Sampled: 4/20/2017 12:45

Sample ID: 17D0925-04

Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 12:34	JMB
Aroclor-1221 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 12:34	JMB
Aroclor-1232 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 12:34	JMB
Aroclor-1242 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 12:34	JMB
Aroclor-1248 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 12:34	JMB
Aroclor-1254 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 12:34	JMB
Aroclor-1260 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 12:34	JMB
Aroclor-1262 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 12:34	JMB
Aroclor-1268 [1]	ND	0.22	µg/L	1		SW-846 8082A	4/21/17	4/26/17 12:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.0	30-150		4/26/17 12:34
Decachlorobiphenyl [2]	91.6	30-150		4/26/17 12:34
Tetrachloro-m-xylene [1]	96.4	30-150		4/26/17 12:34
Tetrachloro-m-xylene [2]	98.1	30-150		4/26/17 12:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925
Date Received: 4/20/2017
Field Sample #: MW-31D
Sampled: 4/20/2017 14:10
Sample ID: 17D0925-05
Sample Matrix: Ground Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.23	µg/L	1		SW-846 8082A	4/21/17	4/26/17 16:04	JMB
Aroclor-1221 [1]	ND	0.23	µg/L	1		SW-846 8082A	4/21/17	4/26/17 16:04	JMB
Aroclor-1232 [1]	ND	0.23	µg/L	1		SW-846 8082A	4/21/17	4/26/17 16:04	JMB
Aroclor-1242 [1]	ND	0.23	µg/L	1		SW-846 8082A	4/21/17	4/26/17 16:04	JMB
Aroclor-1248 [1]	ND	0.23	µg/L	1		SW-846 8082A	4/21/17	4/26/17 16:04	JMB
Aroclor-1254 [1]	ND	0.23	µg/L	1		SW-846 8082A	4/21/17	4/26/17 16:04	JMB
Aroclor-1260 [1]	ND	0.23	µg/L	1		SW-846 8082A	4/21/17	4/26/17 16:04	JMB
Aroclor-1262 [1]	ND	0.23	µg/L	1		SW-846 8082A	4/21/17	4/26/17 16:04	JMB
Aroclor-1268 [1]	ND	0.23	µg/L	1		SW-846 8082A	4/21/17	4/26/17 16:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.3	30-150		4/26/17 16:04
Decachlorobiphenyl [2]	59.6	30-150		4/26/17 16:04
Tetrachloro-m-xylene [1]	94.7	30-150		4/26/17 16:04
Tetrachloro-m-xylene [2]	100	30-150		4/26/17 16:04

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925
Date Received: 4/20/2017
Field Sample #: MW-302D
Sampled: 4/19/2017 16:55
Sample ID: 17D0925-06
Sample Matrix: Ground Water
Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	20000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Acrylonitrile	ND	2000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
tert-Amyl Methyl Ether (TAME)	ND	200	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Benzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Bromobenzene	590	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Bromochloromethane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Bromodichloromethane	ND	200	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Bromoform	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Bromomethane	ND	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
2-Butanone (MEK)	ND	8000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
tert-Butyl Alcohol (TBA)	ND	8000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
n-Butylbenzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
sec-Butylbenzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
tert-Butylbenzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	200	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Carbon Disulfide	ND	1600	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Carbon Tetrachloride	ND	2000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Chlorobenzene	2000	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Chlorodibromomethane	ND	200	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Chloroethane	ND	2000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Chloroform	ND	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Chloromethane	ND	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
2-Chlorotoluene	28000	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
4-Chlorotoluene	1500	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	2000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,2-Dibromoethane (EDB)	ND	200	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Dibromomethane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,2-Dichlorobenzene	1900	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,3-Dichlorobenzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,4-Dichlorobenzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
trans-1,4-Dichloro-2-butene	ND	800	µg/L	400	V-05	SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,1-Dichloroethane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,2-Dichloroethane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,1-Dichloroethylene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
cis-1,2-Dichloroethylene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
trans-1,2-Dichloroethylene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,2-Dichloropropane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,3-Dichloropropane	ND	200	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
2,2-Dichloropropane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,1-Dichloropropene	ND	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
cis-1,3-Dichloropropene	ND	200	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
trans-1,3-Dichloropropene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Diethyl Ether	ND	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 180 Mill St. Cranston, RI
Sample Description:
Work Order: 17D0925

Date Received: 4/20/2017

Field Sample #: MW-302D
Sampled: 4/19/2017 16:55

Sample ID: 17D0925-06

Sample Matrix: Ground Water

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Diisopropyl Ether (DIPE)	ND	200	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,4-Dioxane	ND	20000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Ethylbenzene	490	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Hexachlorobutadiene	ND	240	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
2-Hexanone (MBK)	ND	4000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Isopropylbenzene (Cumene)	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
p-Isopropyltoluene (p-Cymene)	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Methyl Acetate	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Methyl Cyclohexane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Methylene Chloride	ND	2000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	4000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Naphthalene	ND	800	µg/L	400	V-05	SW-846 8260C	4/26/17	4/26/17 17:15	MFF
n-Propylbenzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Styrene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,1,1,2-Tetrachloroethane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,1,2,2-Tetrachloroethane	ND	200	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Tetrachloroethylene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Tetrahydrofuran	ND	4000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Toluene	33000	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,2,3-Trichlorobenzene	ND	2000	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,2,4-Trichlorobenzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,3,5-Trichlorobenzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,1,1-Trichloroethane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,1,2-Trichloroethane	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Trichloroethylene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Trichlorofluoromethane (Freon 11)	ND	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,2,3-Trichloropropane	ND	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,2,4-Trimethylbenzene	ND	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
1,3,5-Trimethylbenzene	520	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
Vinyl Chloride	ND	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
m+p Xylene	1600	800	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF
o-Xylene	430	400	µg/L	400		SW-846 8260C	4/26/17	4/26/17 17:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		4/26/17 17:15
Toluene-d8	92.7	70-130		4/26/17 17:15
4-Bromofluorobenzene	91.2	70-130		4/26/17 17:15

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17D0925-01 [MW-12S]	B175068	930	10.0	04/21/17
17D0925-02 [DUP-1]	B175068	1000	10.0	04/21/17
17D0925-03 [MW-2S]	B175068	900	10.0	04/21/17
17D0925-04 [MW-31S]	B175068	900	10.0	04/21/17
17D0925-05 [MW-31D]	B175068	880	10.0	04/21/17

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17D0925-06 [MW-302D]	B175343	0.0125	5.00	04/26/17

Prep Method: SW-846 3510C-SW846-8270M

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17D0925-01 [MW-12S]	B175170	925	1.00	04/24/17
17D0925-03 [MW-2S]	B175170	890	1.00	04/24/17

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175170 - SW-846 3510C										
Blank (B175170-BLK1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl1-BZ#1	ND	1.0	ng/L							
Cl1-BZ#2	ND	1.0	ng/L							
Cl1-BZ#3	ND	1.0	ng/L							
Cl2-BZ#4/#10	ND	2.0	ng/L							
Cl2-BZ#9	ND	1.0	ng/L							
Cl2-BZ#7	ND	1.0	ng/L							
Cl2-BZ#6	ND	1.0	ng/L							
Cl2-BZ#5	ND	1.0	ng/L							
Cl2-BZ#8	ND	1.0	ng/L							
Cl3-BZ#19	ND	1.0	ng/L							
Cl2-BZ#14	ND	2.0	ng/L							
Cl3-BZ#30	ND	1.0	ng/L							
Cl3-BZ#18	ND	1.0	ng/L							
Cl2-BZ#11	ND	1.0	ng/L							
Cl3-BZ#17	ND	1.0	ng/L							
Cl2-BZ#12	ND	1.0	ng/L							
Cl3-BZ#27	ND	1.0	ng/L							
Cl2-BZ#13	ND	1.0	ng/L							
Cl3-BZ#24	ND	1.0	ng/L							
Cl3-BZ#16	ND	1.0	ng/L							
Cl3-BZ#32	ND	1.0	ng/L							
Cl2-BZ#15	ND	1.0	ng/L							
Cl3-BZ#34	ND	1.0	ng/L							
Cl4-BZ#54	ND	2.0	ng/L							
Cl3-BZ#23	ND	1.0	ng/L							
Cl3-BZ#29	ND	1.0	ng/L							
Cl4-BZ#50	ND	2.0	ng/L							
Cl3-BZ#26	ND	1.0	ng/L							
Cl3-BZ#25	ND	1.0	ng/L							
Cl4-BZ#53	ND	2.0	ng/L							
Cl3-BZ#31	ND	1.0	ng/L							
Cl3-BZ#28	ND	1.0	ng/L							
Cl3-BZ#33/#21/#20	ND	3.0	ng/L							
Cl4-BZ#51	ND	2.0	ng/L							
Cl4-BZ#45	ND	2.0	ng/L							
Cl3-BZ#22	ND	1.0	ng/L							
Cl4-BZ#46	ND	2.0	ng/L							
Cl4-BZ#73	ND	2.0	ng/L							
Cl4-BZ#69	ND	2.0	ng/L							
Cl4-BZ#43	ND	2.0	ng/L							
Cl3-BZ#36	ND	1.0	ng/L							
Cl4-BZ#52	ND	2.0	ng/L							
Cl4-BZ#48	ND	2.0	ng/L							
Cl4-BZ#49	ND	2.0	ng/L							
Cl5-BZ#104	ND	2.0	ng/L							
Cl4-BZ#47/#65/#62	ND	6.0	ng/L							
Cl4-BZ#75	ND	2.0	ng/L							
Cl3-BZ#39	ND	1.0	ng/L							
Cl3-BZ#38	ND	1.0	ng/L							
Cl4-BZ#44	ND	2.0	ng/L							
Cl4-BZ#59	ND	2.0	ng/L							
Cl4-BZ#42	ND	2.0	ng/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175170 - SW-846 3510C										
Blank (B175170-BLK1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl4-BZ#71	ND	2.0	ng/L							
Cl3-BZ#35	ND	1.0	ng/L							
Cl4-BZ#41	ND	2.0	ng/L							
Cl5-BZ#96	ND	2.0	ng/L							
Cl4-BZ#72	ND	2.0	ng/L							
Cl5-BZ#103	ND	2.0	ng/L							
Cl4-BZ#64	ND	2.0	ng/L							
Cl4-BZ#40/#68	ND	4.0	ng/L							
Cl3-BZ#37	ND	1.0	ng/L							
Cl5-BZ#100	ND	2.0	ng/L							
Cl5-BZ#94	ND	2.0	ng/L							
Cl4-BZ#57	ND	2.0	ng/L							
Cl4-BZ#67/#58	ND	4.0	ng/L							
Cl5-BZ#102	ND	2.0	ng/L							
Cl4-BZ#61	ND	2.0	ng/L							
Cl5-BZ#98	ND	2.0	ng/L							
Cl5-BZ#93	ND	6.0	ng/L							
Cl4-BZ#76	ND	2.0	ng/L							
Cl4-BZ#63	ND	2.0	ng/L							
Cl5-BZ#88/#95	ND	4.0	ng/L							
Cl5-BZ#121	ND	2.0	ng/L							
Cl4-BZ#74	ND	2.0	ng/L							
Cl6-BZ#155	ND	2.0	ng/L							
Cl4-BZ#70	ND	2.0	ng/L							
Cl5-BZ#91	ND	2.0	ng/L							
Cl4-BZ#66	ND	2.0	ng/L							
Cl4-BZ#80/#55	ND	4.0	ng/L							
Cl5-BZ#92	ND	2.0	ng/L							
Cl5-BZ#89/#84	ND	4.0	ng/L							
Cl4-BZ#56	ND	2.0	ng/L							
Cl5-BZ#90/#101	ND	4.0	ng/L							
Cl5-BZ#113	ND	2.0	ng/L							
Cl4-BZ#60	ND	2.0	ng/L							
Cl5-BZ#99	ND	2.0	ng/L							
Cl6-BZ#150	ND	2.0	ng/L							
Cl6-BZ#152	ND	2.0	ng/L							
Cl5-BZ#119/#83	ND	4.0	ng/L							
Cl5-BZ#125/#112/#86	ND	6.0	ng/L							
Cl5-BZ#109	ND	2.0	ng/L							
Cl6-BZ#145	ND	2.0	ng/L							
Cl5-BZ#97	ND	2.0	ng/L							
Cl6-BZ#148	ND	2.0	ng/L							
Cl4-BZ#79	ND	2.0	ng/L							
Cl5-BZ#116	ND	4.0	ng/L							
Cl5-BZ#87	ND	2.0	ng/L							
Cl4-BZ#78	ND	2.0	ng/L							
Cl6-BZ#154/#136	ND	4.0	ng/L							
Cl5-BZ#111/#117/#115	ND	6.0	ng/L							
Cl5-BZ#85	ND	2.0	ng/L							
Cl5-BZ#120/#110	ND	4.0	ng/L							
Cl4-BZ#81	ND	2.0	ng/L							
Cl6-BZ#151	ND	2.0	ng/L							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175170 - SW-846 3510C										
Blank (B175170-BLK1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl6-BZ#135	ND	2.0	ng/L							
Cl5-BZ#82	ND	2.0	ng/L							
Cl6-BZ#144	ND	2.0	ng/L							
Cl6-BZ#147/#149	ND	4.0	ng/L							
Cl4-BZ#77	ND	2.0	ng/L							
Cl6-BZ#143/#139	ND	4.0	ng/L							
Cl6-BZ#140	ND	2.0	ng/L							
Cl5-BZ#124	ND	2.0	ng/L							
Cl5-BZ#108	ND	2.0	ng/L							
Cl5-BZ#123/#107	ND	4.0	ng/L							
Cl7-BZ#188	ND	2.0	ng/L							
Cl6-BZ#134	ND	2.0	ng/L							
Cl5-BZ#106	ND	2.0	ng/L							
Cl6-BZ#142	ND	2.0	ng/L							
Cl6-BZ#133/#131	ND	4.0	ng/L							
Cl5-BZ#118	ND	2.0	ng/L							
Cl7-BZ#184	ND	2.0	ng/L							
Cl6-BZ#165	ND	2.0	ng/L							
Cl6-BZ#146	ND	2.0	ng/L							
Cl5-BZ#122	ND	2.0	ng/L							
Cl6-BZ#161	ND	2.0	ng/L							
Cl5-BZ#114	ND	2.0	ng/L							
Cl6-BZ#168	ND	2.0	ng/L							
Cl6-BZ#153	ND	2.0	ng/L							
Cl6-BZ#132	ND	2.0	ng/L							
Cl7-BZ#179	ND	2.0	ng/L							
Cl6-BZ#141	ND	2.0	ng/L							
Cl7-BZ#176	ND	2.0	ng/L							
Cl5-BZ#105	ND	2.0	ng/L							Z-01
Cl6-BZ#137	ND	2.0	ng/L							
Cl7-BZ#186	ND	2.0	ng/L							
Cl5-BZ#127	ND	2.0	ng/L							
Cl6-BZ#130/#164	ND	4.0	ng/L							
Cl7-BZ#178	ND	2.0	ng/L							
Cl6-BZ#138	ND	2.0	ng/L							
Cl6-BZ#160/#129/#163	ND	6.0	ng/L							
Cl6-BZ#158	ND	2.0	ng/L							
Cl7-BZ#182/#175	ND	4.0	ng/L							
Cl7-BZ#187	ND	2.0	ng/L							
Cl7-BZ#183	ND	2.0	ng/L							
Cl6-BZ#166	ND	2.0	ng/L							
Cl6-BZ#159	ND	2.0	ng/L							
Cl5-BZ#126	ND	2.0	ng/L							Z-01
Cl7-BZ#185	ND	2.0	ng/L							
Cl6-BZ#128/#162	ND	4.0	ng/L							
Cl7-BZ#174	ND	2.0	ng/L							
Cl8-BZ#202	ND	3.0	ng/L							
Cl6-BZ#167	ND	2.0	ng/L							
Cl7-BZ#181	ND	2.0	ng/L							
Cl7-BZ#177	ND	2.0	ng/L							
Cl8-BZ#200/#204	ND	6.0	ng/L							
Cl7-BZ#171	ND	2.0	ng/L							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175170 - SW-846 3510C										
Blank (B175170-BLK1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl7-BZ#173	ND	2.0	ng/L							
Cl8-BZ#197	ND	3.0	ng/L							
Cl7-BZ#172	ND	2.0	ng/L							
Cl6-BZ#156	ND	2.0	ng/L							
Cl7-BZ#192	ND	2.0	ng/L							
Cl6-BZ#157	ND	2.0	ng/L							
Cl7-BZ#180	ND	2.0	ng/L							
Cl7-BZ#193	ND	2.0	ng/L							
Cl8-BZ#199	ND	3.0	ng/L							
Cl7-BZ#191	ND	2.0	ng/L							
Cl8-BZ#198	ND	3.0	ng/L							
Cl8-BZ#201	ND	3.0	ng/L							
Cl7-BZ#170	ND	2.0	ng/L							
Cl7-BZ#190	ND	2.0	ng/L							
Cl8-BZ#196	ND	3.0	ng/L							
Cl8-BZ#203	ND	3.0	ng/L							
Cl6-BZ#169	ND	2.0	ng/L							
Cl9-BZ#208	ND	3.0	ng/L							
Cl9-BZ#207	ND	3.0	ng/L							
Cl7-BZ#189	ND	2.0	ng/L							R-05
Cl8-BZ#195	ND	3.0	ng/L							R-05
Cl8-BZ#194	ND	3.0	ng/L							
Cl8-BZ#205	ND	3.0	ng/L							
Cl9-BZ#206	ND	3.0	ng/L							L-07A
Cl10-BZ#209	ND	3.0	ng/L							L-07A
Surrogate: Tetrachloro-m-xylene	*34.4*		ng/L	50.0		68.7	40-140			
LCS (B175170-BS1)				Prepared: 04/24/17 Analyzed: 05/05/17						
Cl2-BZ#8	41.1	1.0	ng/L	50.0		82.2	40-140			
Cl3-BZ#18	45.5	1.0	ng/L	50.0		90.9	40-140			
Cl3-BZ#28	41.3	1.0	ng/L	50.0		82.5	40-140			
Cl4-BZ#52	42.3	2.0	ng/L	50.0		84.7	40-140			
Cl4-BZ#44	47.9	2.0	ng/L	50.0		95.8	40-140			
Cl4-BZ#66	38.8	2.0	ng/L	50.0		77.5	40-140			
Cl5-BZ#90/#101	50.6	4.0	ng/L	50.0		101	40-140			
Cl4-BZ#81	46.8	2.0	ng/L	50.0		93.7	40-140			
Cl5-BZ#123/#107	41.4	4.0	ng/L	50.0		82.8	40-140			
Cl5-BZ#118	56.1	2.0	ng/L	50.0		112	40-140			
Cl5-BZ#114	54.1	2.0	ng/L	50.0		108	40-140			
Cl6-BZ#153	52.3	2.0	ng/L	50.0		105	40-140			
Cl5-BZ#105	40.8	2.0	ng/L	50.0		81.5	40-140			Z-01
Cl6-BZ#138	52.6	2.0	ng/L	50.0		105	40-140			
Cl7-BZ#187	53.5	2.0	ng/L	50.0		107	40-140			
Cl5-BZ#126	44.0	2.0	ng/L	50.0		87.9	40-140			Z-01
Cl6-BZ#128/#162	43.0	4.0	ng/L	50.0		86.1	40-140			
Cl6-BZ#167	52.6	2.0	ng/L	50.0		105	40-140			
Cl6-BZ#156	54.2	2.0	ng/L	50.0		108	40-140			
Cl6-BZ#157	57.9	2.0	ng/L	50.0		116	40-140			
Cl7-BZ#180	60.6	2.0	ng/L	50.0		121	40-140			
Cl7-BZ#170	54.0	2.0	ng/L	50.0		108	40-140			
Cl6-BZ#169	62.1	2.0	ng/L	50.0		124	40-140			
Cl7-BZ#189	69.6	2.0	ng/L	50.0		139	40-140			R-05

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

***** DEFAULT GENERAL METHOD *** - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B175170 - SW-846 3510C												
LCS (B175170-BS1)				Prepared: 04/24/17 Analyzed: 05/05/17								
Cl8-BZ#195	63.5	3.0	ng/L	50.0		127		40-140				R-05
Cl9-BZ#206	79.7	3.0	ng/L	50.0		**159**	*	40-140				L-07A
Cl10-BZ#209	71.3	3.0	ng/L	50.0		**143**	*	40-140				L-07A
Surrogate: Tetrachloro-m-xylene	*47.1*		ng/L	50.0		94.3		40-140				
LCS Dup (B175170-BSD1)				Prepared: 04/24/17 Analyzed: 05/05/17								
Cl2-BZ#8	37.9	1.0	ng/L	50.0		75.9		40-140	8.04		30	
Cl3-BZ#18	42.6	1.0	ng/L	50.0		85.2		40-140	6.49		30	
Cl3-BZ#28	39.4	1.0	ng/L	50.0		78.9		40-140	4.54		30	
Cl4-BZ#52	40.5	2.0	ng/L	50.0		81.0		40-140	4.47		30	
Cl4-BZ#44	45.8	2.0	ng/L	50.0		91.7		40-140	4.33		30	
Cl4-BZ#66	37.5	2.0	ng/L	50.0		75.1		40-140	3.20		30	
Cl5-BZ#90/#101	42.2	4.0	ng/L	50.0		84.3		40-140	18.2		30	
Cl4-BZ#81	39.2	2.0	ng/L	50.0		78.4		40-140	17.8		30	
Cl5-BZ#123/#107	32.5	4.0	ng/L	50.0		65.0		40-140	24.1		30	
Cl5-BZ#118	46.3	2.0	ng/L	50.0		92.6		40-140	19.1		30	
Cl5-BZ#114	44.4	2.0	ng/L	50.0		88.9		40-140	19.6		30	
Cl6-BZ#153	42.7	2.0	ng/L	50.0		85.5		40-140	20.0		30	
Cl5-BZ#105	33.6	2.0	ng/L	50.0		67.2		40-140	19.3		30	Z-01
Cl6-BZ#138	42.8	2.0	ng/L	50.0		85.6		40-140	20.5		30	
Cl7-BZ#187	43.2	2.0	ng/L	50.0		86.4		40-140	21.3		30	
Cl5-BZ#126	37.6	2.0	ng/L	50.0		75.1		40-140	15.7		30	Z-01
Cl6-BZ#128/#162	36.4	4.0	ng/L	50.0		72.9		40-140	16.6		30	
Cl6-BZ#167	43.3	2.0	ng/L	50.0		86.7		40-140	19.2		30	
Cl6-BZ#156	44.2	2.0	ng/L	50.0		88.3		40-140	20.3		30	
Cl6-BZ#157	47.3	2.0	ng/L	50.0		94.7		40-140	20.0		30	
Cl7-BZ#180	48.8	2.0	ng/L	50.0		97.6		40-140	21.6		30	
Cl7-BZ#170	43.4	2.0	ng/L	50.0		86.8		40-140	21.8		30	
Cl6-BZ#169	51.1	2.0	ng/L	50.0		102		40-140	19.4		30	
Cl7-BZ#189	46.3	2.0	ng/L	50.0		92.6		40-140	**40.2**	*	30	R-05
Cl8-BZ#195	42.1	3.0	ng/L	50.0		84.3		40-140	**40.4**	*	30	R-05
Cl9-BZ#206	49.7	3.0	ng/L	50.0		99.5		40-140	**46.3**	*	30	L-07A
Cl10-BZ#209	43.8	3.0	ng/L	50.0		87.6		40-140	**47.8**	*	30	L-07A
Surrogate: Tetrachloro-m-xylene	*40.6*		ng/L	50.0		81.2		40-140				

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175343 - SW-846 5030B										
Blank (B175343-BLK1)				Prepared & Analyzed: 04/26/17						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Disulfide	ND	2.0	µg/L							
Carbon Tetrachloride	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							V-05
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diethyl Ether	ND	2.0	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	0.50	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B175343 - SW-846 5030B												
Blank (B175343-BLK1)				Prepared & Analyzed: 04/26/17								
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L									
Methyl Cyclohexane	ND	1.0	µg/L									
Methylene Chloride	ND	5.0	µg/L									
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L									
Naphthalene	ND	2.0	µg/L								V-05	
n-Propylbenzene	ND	1.0	µg/L									
Styrene	ND	1.0	µg/L									
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L									
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L									
Tetrachloroethylene	ND	1.0	µg/L									
Tetrahydrofuran	ND	10	µg/L									
Toluene	ND	1.0	µg/L									
1,2,3-Trichlorobenzene	ND	2.0	µg/L									
1,2,4-Trichlorobenzene	ND	1.0	µg/L									
1,3,5-Trichlorobenzene	ND	1.0	µg/L									
1,1,1-Trichloroethane	ND	1.0	µg/L									
1,1,2-Trichloroethane	ND	1.0	µg/L									
Trichloroethylene	ND	1.0	µg/L									
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L									
1,2,3-Trichloropropane	ND	2.0	µg/L									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L									
1,2,4-Trimethylbenzene	ND	1.0	µg/L									
1,3,5-Trimethylbenzene	ND	1.0	µg/L									
Vinyl Chloride	ND	2.0	µg/L									
m+p Xylene	ND	2.0	µg/L									
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103		70-130				
Surrogate: Toluene-d8	*23.3*		µg/L	25.0		93.0		70-130				
Surrogate: 4-Bromofluorobenzene	*21.9*		µg/L	25.0		87.6		70-130				
LCS (B175343-BS1)				Prepared & Analyzed: 04/26/17								
Acetone	81.6	50	µg/L	100		81.6		70-160			V-20	†
Acrylonitrile	9.24	5.0	µg/L	10.0		92.4		70-130				
tert-Amyl Methyl Ether (TAME)	9.31	0.50	µg/L	10.0		93.1		70-130				
Benzene	8.55	1.0	µg/L	10.0		85.5		70-130				
Bromobenzene	8.90	1.0	µg/L	10.0		89.0		70-130				
Bromochloromethane	9.19	1.0	µg/L	10.0		91.9		70-130				
Bromodichloromethane	8.82	0.50	µg/L	10.0		88.2		70-130				
Bromoform	9.37	1.0	µg/L	10.0		93.7		70-130				
Bromomethane	7.77	2.0	µg/L	10.0		77.7		40-160			V-20	†
2-Butanone (MEK)	83.9	20	µg/L	100		83.9		40-160				†
tert-Butyl Alcohol (TBA)	83.1	20	µg/L	100		83.1		40-160				†
n-Butylbenzene	8.95	1.0	µg/L	10.0		89.5		70-130				
sec-Butylbenzene	9.29	1.0	µg/L	10.0		92.9		70-130				
tert-Butylbenzene	8.96	1.0	µg/L	10.0		89.6		70-130				
tert-Butyl Ethyl Ether (TBEE)	9.21	0.50	µg/L	10.0		92.1		70-130				
Carbon Disulfide	14.5	2.0	µg/L	10.0		**145**	*	70-130			L-02	
Carbon Tetrachloride	8.92	1.0	µg/L	10.0		89.2		70-130				
Chlorobenzene	9.14	1.0	µg/L	10.0		91.4		70-130				
Chlorodibromomethane	9.41	0.50	µg/L	10.0		94.1		70-130				
Chloroethane	7.98	2.0	µg/L	10.0		79.8		70-130				
Chloroform	8.61	2.0	µg/L	10.0		86.1		70-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B175343 - SW-846 5030B												
LCS (B175343-BS1)				Prepared & Analyzed: 04/26/17								
Chloromethane	7.92	2.0	µg/L	10.0		79.2		40-160			V-20	†
2-Chlorotoluene	9.01	1.0	µg/L	10.0		90.1		70-130				
4-Chlorotoluene	9.13	1.0	µg/L	10.0		91.3		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	8.09	5.0	µg/L	10.0		80.9		70-130				
1,2-Dibromoethane (EDB)	8.81	0.50	µg/L	10.0		88.1		70-130				
Dibromomethane	8.53	1.0	µg/L	10.0		85.3		70-130				
1,2-Dichlorobenzene	9.40	1.0	µg/L	10.0		94.0		70-130				
1,3-Dichlorobenzene	9.67	1.0	µg/L	10.0		96.7		70-130				
1,4-Dichlorobenzene	8.53	1.0	µg/L	10.0		85.3		70-130				
trans-1,4-Dichloro-2-butene	7.02	2.0	µg/L	10.0		70.2		70-130			V-05	
Dichlorodifluoromethane (Freon 12)	6.70	2.0	µg/L	10.0		67.0		40-160				†
1,1-Dichloroethane	8.94	1.0	µg/L	10.0		89.4		70-130				
1,2-Dichloroethane	7.89	1.0	µg/L	10.0		78.9		70-130				
1,1-Dichloroethylene	8.71	1.0	µg/L	10.0		87.1		70-130				
cis-1,2-Dichloroethylene	8.62	1.0	µg/L	10.0		86.2		70-130				
trans-1,2-Dichloroethylene	8.26	1.0	µg/L	10.0		82.6		70-130				
1,2-Dichloropropane	8.24	1.0	µg/L	10.0		82.4		70-130				
1,3-Dichloropropane	8.48	0.50	µg/L	10.0		84.8		70-130				
2,2-Dichloropropane	9.27	1.0	µg/L	10.0		92.7		40-130				†
1,1-Dichloropropene	8.72	2.0	µg/L	10.0		87.2		70-130				
cis-1,3-Dichloropropene	7.83	0.50	µg/L	10.0		78.3		70-130				
trans-1,3-Dichloropropene	8.06	0.50	µg/L	10.0		80.6		70-130				
Diethyl Ether	9.84	2.0	µg/L	10.0		98.4		70-130				
Diisopropyl Ether (DIPE)	10.6	0.50	µg/L	10.0		106		70-130				
1,4-Dioxane	106	50	µg/L	100		106		40-130				†
Ethylbenzene	9.10	1.0	µg/L	10.0		91.0		70-130				
Hexachlorobutadiene	8.96	0.50	µg/L	10.0		89.6		70-130				
2-Hexanone (MBK)	88.4	10	µg/L	100		88.4		70-160				†
Isopropylbenzene (Cumene)	8.70	1.0	µg/L	10.0		87.0		70-130				
p-Isopropyltoluene (p-Cymene)	9.09	1.0	µg/L	10.0		90.9		70-130				
Methyl Acetate	6.96	1.0	µg/L	10.0		**69.6**	*	70-130			L-02	
Methyl tert-Butyl Ether (MTBE)	9.44	1.0	µg/L	10.0		94.4		70-130				
Methyl Cyclohexane	7.96	1.0	µg/L	10.0		79.6		70-130				
Methylene Chloride	8.41	5.0	µg/L	10.0		84.1		70-130				
4-Methyl-2-pentanone (MIBK)	92.7	10	µg/L	100		92.7		70-160				†
Naphthalene	7.13	2.0	µg/L	10.0		71.3		40-130			V-05	†
n-Propylbenzene	9.32	1.0	µg/L	10.0		93.2		70-130				
Styrene	7.87	1.0	µg/L	10.0		78.7		70-130				
1,1,1,2-Tetrachloroethane	9.16	1.0	µg/L	10.0		91.6		70-130				
1,1,2,2-Tetrachloroethane	9.93	0.50	µg/L	10.0		99.3		70-130				
Tetrachloroethylene	8.56	1.0	µg/L	10.0		85.6		70-130				
Tetrahydrofuran	11.2	10	µg/L	10.0		112		70-130				
Toluene	8.80	1.0	µg/L	10.0		88.0		70-130				
1,2,3-Trichlorobenzene	9.06	2.0	µg/L	10.0		90.6		70-130				
1,2,4-Trichlorobenzene	8.92	1.0	µg/L	10.0		89.2		70-130				
1,3,5-Trichlorobenzene	8.86	1.0	µg/L	10.0		88.6		70-130				
1,1,1-Trichloroethane	8.33	1.0	µg/L	10.0		83.3		70-130				
1,1,2-Trichloroethane	8.54	1.0	µg/L	10.0		85.4		70-130				
Trichloroethylene	8.23	1.0	µg/L	10.0		82.3		70-130				
Trichlorofluoromethane (Freon 11)	7.93	2.0	µg/L	10.0		79.3		70-130				
1,2,3-Trichloropropane	8.07	2.0	µg/L	10.0		80.7		70-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B175343 - SW-846 5030B												
LCS (B175343-BS1)				Prepared & Analyzed: 04/26/17								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.55	1.0	µg/L	10.0		85.5		70-130				
1,2,4-Trimethylbenzene	8.99	1.0	µg/L	10.0		89.9		70-130				
1,3,5-Trimethylbenzene	8.23	1.0	µg/L	10.0		82.3		70-130				
Vinyl Chloride	7.72	2.0	µg/L	10.0		77.2		40-160				†
m+p Xylene	18.8	2.0	µg/L	20.0		93.8		70-130				
o-Xylene	8.89	1.0	µg/L	10.0		88.9		70-130				
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.2		70-130				
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100		70-130				
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		98.0		70-130				
LCS Dup (B175343-BSD1)				Prepared & Analyzed: 04/26/17								
Acetone	74.9	50	µg/L	100		74.9		70-160	8.60	25	V-20	†
Acrylonitrile	9.39	5.0	µg/L	10.0		93.9		70-130	1.61	25		
tert-Amyl Methyl Ether (TAME)	8.57	0.50	µg/L	10.0		85.7		70-130	8.28	25		
Benzene	8.31	1.0	µg/L	10.0		83.1		70-130	2.85	25		
Bromobenzene	8.55	1.0	µg/L	10.0		85.5		70-130	4.01	25		
Bromochloromethane	8.87	1.0	µg/L	10.0		88.7		70-130	3.54	25		
Bromodichloromethane	8.68	0.50	µg/L	10.0		86.8		70-130	1.60	25		
Bromoform	9.17	1.0	µg/L	10.0		91.7		70-130	2.16	25		
Bromomethane	7.99	2.0	µg/L	10.0		79.9		40-160	2.79	25	V-20	†
2-Butanone (MEK)	81.6	20	µg/L	100		81.6		40-160	2.85	25		†
tert-Butyl Alcohol (TBA)	78.5	20	µg/L	100		78.5		40-160	5.64	25		†
n-Butylbenzene	8.42	1.0	µg/L	10.0		84.2		70-130	6.10	25		
sec-Butylbenzene	8.77	1.0	µg/L	10.0		87.7		70-130	5.76	25		
tert-Butylbenzene	8.54	1.0	µg/L	10.0		85.4		70-130	4.80	25		
tert-Butyl Ethyl Ether (TBEE)	8.82	0.50	µg/L	10.0		88.2		70-130	4.33	25		
Carbon Disulfide	13.4	2.0	µg/L	10.0		**134**	*	70-130	8.25	25	L-02	
Carbon Tetrachloride	8.46	1.0	µg/L	10.0		84.6		70-130	5.29	25		
Chlorobenzene	8.63	1.0	µg/L	10.0		86.3		70-130	5.74	25		
Chlorodibromomethane	8.67	0.50	µg/L	10.0		86.7		70-130	8.19	25		
Chloroethane	8.09	2.0	µg/L	10.0		80.9		70-130	1.37	25		
Chloroform	8.27	2.0	µg/L	10.0		82.7		70-130	4.03	25		
Chloromethane	7.56	2.0	µg/L	10.0		75.6		40-160	4.65	25	V-20	†
2-Chlorotoluene	9.23	1.0	µg/L	10.0		92.3		70-130	2.41	25		
4-Chlorotoluene	8.90	1.0	µg/L	10.0		89.0		70-130	2.55	25		
1,2-Dibromo-3-chloropropane (DBCP)	7.18	5.0	µg/L	10.0		71.8		70-130	11.9	25		
1,2-Dibromoethane (EDB)	8.40	0.50	µg/L	10.0		84.0		70-130	4.76	25		
Dibromomethane	8.38	1.0	µg/L	10.0		83.8		70-130	1.77	25		
1,2-Dichlorobenzene	8.78	1.0	µg/L	10.0		87.8		70-130	6.82	25		
1,3-Dichlorobenzene	9.00	1.0	µg/L	10.0		90.0		70-130	7.18	25		
1,4-Dichlorobenzene	8.46	1.0	µg/L	10.0		84.6		70-130	0.824	25		
trans-1,4-Dichloro-2-butene	7.10	2.0	µg/L	10.0		71.0		70-130	1.13	25	V-05	
Dichlorodifluoromethane (Freon 12)	6.05	2.0	µg/L	10.0		60.5		40-160	10.2	25		†
1,1-Dichloroethane	8.46	1.0	µg/L	10.0		84.6		70-130	5.52	25		
1,2-Dichloroethane	8.11	1.0	µg/L	10.0		81.1		70-130	2.75	25		
1,1-Dichloroethylene	7.83	1.0	µg/L	10.0		78.3		70-130	10.6	25		
cis-1,2-Dichloroethylene	8.09	1.0	µg/L	10.0		80.9		70-130	6.34	25		
trans-1,2-Dichloroethylene	8.41	1.0	µg/L	10.0		84.1		70-130	1.80	25		
1,2-Dichloropropane	7.73	1.0	µg/L	10.0		77.3		70-130	6.39	25		
1,3-Dichloropropane	8.33	0.50	µg/L	10.0		83.3		70-130	1.78	25		
2,2-Dichloropropane	8.40	1.0	µg/L	10.0		84.0		40-130	9.85	25		†
1,1-Dichloropropene	7.85	2.0	µg/L	10.0		78.5		70-130	10.5	25		

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B175343 - SW-846 5030B												
LCS Dup (B175343-BSD1)				Prepared & Analyzed: 04/26/17								
cis-1,3-Dichloropropene	7.73	0.50	µg/L	10.0		77.3		70-130	1.29	25		
trans-1,3-Dichloropropene	8.39	0.50	µg/L	10.0		83.9		70-130	4.01	25		
Diethyl Ether	9.02	2.0	µg/L	10.0		90.2		70-130	8.70	25		
Diisopropyl Ether (DIPE)	9.81	0.50	µg/L	10.0		98.1		70-130	8.12	25		
1,4-Dioxane	104	50	µg/L	100		104		40-130	1.40	50		† ‡
Ethylbenzene	8.80	1.0	µg/L	10.0		88.0		70-130	3.35	25		
Hexachlorobutadiene	9.00	0.50	µg/L	10.0		90.0		70-130	0.445	25		
2-Hexanone (MBK)	85.2	10	µg/L	100		85.2		70-160	3.67	25		†
Isopropylbenzene (Cumene)	8.54	1.0	µg/L	10.0		85.4		70-130	1.86	25		
p-Isopropyltoluene (p-Cymene)	8.21	1.0	µg/L	10.0		82.1		70-130	10.2	25		
Methyl Acetate	6.32	1.0	µg/L	10.0		**63.2**	*	70-130	9.64	25	L-02	
Methyl tert-Butyl Ether (MTBE)	8.72	1.0	µg/L	10.0		87.2		70-130	7.93	25		
Methyl Cyclohexane	7.74	1.0	µg/L	10.0		77.4		70-130	2.80	25		
Methylene Chloride	8.26	5.0	µg/L	10.0		82.6		70-130	1.80	25		
4-Methyl-2-pentanone (MIBK)	91.9	10	µg/L	100		91.9		70-160	0.888	25		†
Naphthalene	6.71	2.0	µg/L	10.0		67.1		40-130	6.07	25	V-05	†
n-Propylbenzene	8.79	1.0	µg/L	10.0		87.9		70-130	5.85	25		
Styrene	7.63	1.0	µg/L	10.0		76.3		70-130	3.10	25		
1,1,1,2-Tetrachloroethane	8.73	1.0	µg/L	10.0		87.3		70-130	4.81	25		
1,1,2,2-Tetrachloroethane	9.61	0.50	µg/L	10.0		96.1		70-130	3.28	25		
Tetrachloroethylene	8.58	1.0	µg/L	10.0		85.8		70-130	0.233	25		
Tetrahydrofuran	9.23	10	µg/L	10.0		92.3		70-130	19.2	25		
Toluene	8.92	1.0	µg/L	10.0		89.2		70-130	1.35	25		
1,2,3-Trichlorobenzene	8.98	2.0	µg/L	10.0		89.8		70-130	0.887	25		
1,2,4-Trichlorobenzene	8.43	1.0	µg/L	10.0		84.3		70-130	5.65	25		
1,3,5-Trichlorobenzene	8.56	1.0	µg/L	10.0		85.6		70-130	3.44	25		
1,1,1-Trichloroethane	8.05	1.0	µg/L	10.0		80.5		70-130	3.42	25		
1,1,2-Trichloroethane	8.53	1.0	µg/L	10.0		85.3		70-130	0.117	25		
Trichloroethylene	8.46	1.0	µg/L	10.0		84.6		70-130	2.76	25		
Trichlorofluoromethane (Freon 11)	7.84	2.0	µg/L	10.0		78.4		70-130	1.14	25		
1,2,3-Trichloropropane	7.95	2.0	µg/L	10.0		79.5		70-130	1.50	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.00	1.0	µg/L	10.0		80.0		70-130	6.65	25		
1,2,4-Trimethylbenzene	8.58	1.0	µg/L	10.0		85.8		70-130	4.67	25		
1,3,5-Trimethylbenzene	8.13	1.0	µg/L	10.0		81.3		70-130	1.22	25		
Vinyl Chloride	7.66	2.0	µg/L	10.0		76.6		40-160	0.780	25		†
m+p Xylene	18.6	2.0	µg/L	20.0		93.0		70-130	0.749	25		
o-Xylene	8.41	1.0	µg/L	10.0		84.1		70-130	5.55	25		
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.6		70-130				
Surrogate: Toluene-d8	*25.8*		µg/L	25.0		103		70-130				
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.5		70-130				

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B175068 - SW-846 3510C										
Blank (B175068-BLK1)				Prepared: 04/21/17 Analyzed: 04/24/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.61*		µg/L	2.00		80.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.58*		µg/L	2.00		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.58*		µg/L	2.00		78.9	30-150			
LCS (B175068-BS1)				Prepared: 04/21/17 Analyzed: 04/24/17						
Aroclor-1016	0.47	0.20	µg/L	0.500		94.5	40-140			
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		95.5	40-140			
Aroclor-1260	0.43	0.20	µg/L	0.500		85.4	40-140			
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		85.1	40-140			
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.60*		µg/L	2.00		80.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.53*		µg/L	2.00		76.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.51*		µg/L	2.00		75.7	30-150			
LCS Dup (B175068-BSD1)				Prepared: 04/21/17 Analyzed: 04/24/17						
Aroclor-1016	0.55	0.20	µg/L	0.500		109	40-140	14.6	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		111	40-140	15.3	20	
Aroclor-1260	0.45	0.20	µg/L	0.500		90.0	40-140	5.23	20	
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.1	40-140	6.82	20	
Surrogate: Decachlorobiphenyl	*1.91*		µg/L	2.00		95.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.82*		µg/L	2.00		91.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.75*		µg/L	2.00		87.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.73*		µg/L	2.00		86.3	30-150			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B175068-BS1

Date(s) Analyzed: 04/24/2017 04/24/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.47	
	2	0.000	0.000	0.000	0.48	2.1
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.43	0.0

con-test® ANALYTICAL LABORATORY

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B175068-BSD1 Date(s) Analyzed: 04/24/2017 04/24/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.55	
	2	0.000	0.000	0.000	0.56	1.8
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.46	2.2

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
S-13	Surrogate recovery is outside of control limits on both columns. Data validation is not affected since all results are "not detected" and bias is on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Initial calibration verification did not meet method specifications. Increased uncertainty is associated with the reported value

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260C in Water	
Acetone	CT,NY,ME,NH,VA
Acrylonitrile	CT,NY,ME,NH,VA
tert-Amyl Methyl Ether (TAME)	NY,ME,NH,VA
Benzene	CT,NY,ME,NH,VA
Bromobenzene	NY
Bromochloromethane	NY,ME,NH,VA
Bromodichloromethane	CT,NY,ME,NH,VA
Bromoform	CT,NY,ME,NH,VA
Bromomethane	CT,NY,ME,NH,VA
2-Butanone (MEK)	CT,NY,ME,NH,VA
tert-Butyl Alcohol (TBA)	NY,ME,NH,VA
n-Butylbenzene	NY,ME,VA
sec-Butylbenzene	NY,ME,VA
tert-Butylbenzene	NY,ME,VA
tert-Butyl Ethyl Ether (TBEE)	NY,ME,NH,VA
Carbon Disulfide	CT,NY,ME,NH,VA
Carbon Tetrachloride	CT,NY,ME,NH,VA
Chlorobenzene	CT,NY,ME,NH,VA
Chlorodibromomethane	CT,NY,ME,NH,VA
Chloroethane	CT,NY,ME,NH,VA
Chloroform	CT,NY,ME,NH,VA
Chloromethane	CT,NY,ME,NH,VA
2-Chlorotoluene	NY,ME,NH,VA
4-Chlorotoluene	NY,ME,NH,VA
Dibromomethane	NY,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,ME,NH,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
1,4-Dichlorobenzene	CT,NY,ME,NH,VA
trans-1,4-Dichloro-2-butene	NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH,VA
1,1-Dichloroethane	CT,NY,ME,NH,VA
1,2-Dichloroethane	CT,NY,ME,NH,VA
1,1-Dichloroethylene	CT,NY,ME,NH,VA
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NY,ME,NH,VA
1,2-Dichloropropane	CT,NY,ME,NH,VA
1,3-Dichloropropane	NY,ME,VA
2,2-Dichloropropane	NY,ME,NH,VA
1,1-Dichloropropene	NY,ME,NH,VA
cis-1,3-Dichloropropene	CT,NY,ME,NH,VA
trans-1,3-Dichloropropene	CT,NY,ME,NH,VA
Diethyl Ether	NY
Diisopropyl Ether (DIPE)	NY,ME,NH,VA
1,4-Dioxane	NY
Ethylbenzene	CT,NY,ME,NH,VA
Hexachlorobutadiene	CT,NY,ME,NH,VA
2-Hexanone (MBK)	CT,NY,ME,NH,VA
Isopropylbenzene (Cumene)	NY,ME,VA
p-Isopropyltoluene (p-Cymene)	CT,NY,ME,NH,VA
Methyl Acetate	NY
Methyl tert-Butyl Ether (MTBE)	CT,NY,ME,NH,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	CT,NY,ME,NH,VA
Naphthalene	NY,ME,NH,VA
n-Propylbenzene	CT,NY,ME,NH,VA
Styrene	CT,NY,ME,NH,VA
1,1,1,2-Tetrachloroethane	CT,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	CT,NY,ME,NH,VA
Tetrachloroethylene	CT,NY,ME,NH,VA
Toluene	CT,NY,ME,NH,VA
1,2,3-Trichlorobenzene	NY,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,ME,NH,VA
1,3,5-Trichlorobenzene	ME
1,1,1-Trichloroethane	CT,NY,ME,NH,VA
1,1,2-Trichloroethane	CT,NY,ME,NH,VA
Trichloroethylene	CT,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	CT,NY,ME,NH,VA
1,2,3-Trichloropropane	NY,ME,NH,VA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY,VA
1,2,4-Trimethylbenzene	NY,ME,VA
1,3,5-Trimethylbenzene	NY,ME,VA
Vinyl Chloride	CT,NY,ME,NH,VA
m+p Xylene	CT,ME,NH,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
o-Xylene	CT,ME,NH,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

17D09925

Rev 04.05.12

39 Spruce Street
East longmeadow, MA 01028

Company Name: AEI
Address: 112 Water St, 5th Floor
Boston, MA 02109
Attention: Rick Kowalski
Project Location: BHSF Cranston, 180 Mill St, Cranston RI
Sampled By: A. Ting / R. Medaglio

Telephone: 857-350-3519
Project #: 36 36 55
Client PO#: 130275

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #:
Email: see note 1
Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs (8260)	VOCs (8260) (ATT)	PCB Aroclors (8082)	PCB Congeners (8270M)	# of Containers	** Preservation	***Container Code
												3	10	4
												#	I	I
												V	A	A
01	MW-12S	4/20/17	0915		X	GW	U			X	X			
02	DUP-1	↓	~~1015~~ (ATT)		↓	↓	↓			X				
03	MW-2S	↓	1105		↓	↓	↓			X	X			
04	MW-31S	↓	1245		↓	↓	↓			X				
05	MW-31D	↓	1410		↓	↓	↓			X				
06	MW-302D	4/19/17	1655		↓	↓	↓	X						

ANALYSIS REQUESTED

Comments: note 1: rkowalski@aeiconsultants.com
sgraham@ " "
ating@ " "

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) 4/20/17 Date/Time: 1557
Received by: (signature) 4-20-17 Date/Time: 1557
Relinquished by: (signature) 4-20-17 Date/Time: 1700
Received by: (signature) 4/20/17 Date/Time: 1700

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5-day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

REC: 4/20/17 1840

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: AEI **RECEIVED BY:** RLF **DATE:** 4/20/17

1) Was the chain(s) of custody relinquished and signed? Yes X No ____ No COC Incl.

2) Does the chain agree with the samples? Yes X No ____

If not, explain:

3) Are all the samples in good condition? Yes X No ____

If not, explain:

4) How were the samples received:

On Ice X Direct from Sampling ____ Ambient ____ In Cooler(s) X

Were the samples received in Temperature Compliance of (2-6°C)? Yes X No ____ N/A ____

Temperature °C by Temp blank ____ # ____ Temperature °C by Temp gun 3.2°C # 7

5) Are there Dissolved samples for the lab to filter? Yes ____ No X

Who was notified ____ Date ____ Time ____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes ____ No X

Who was notified ____ Date ____ Time ____

7) Location where samples are stored:

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) Do all samples have the proper Acid pH: Yes ____ No ____ N/A X

9) Do all samples have the proper Base pH: Yes ____ No ____ N/A X

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes ____ N/A X

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	14	16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below	3	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl 3 # Methanol ____
Bisulfate ____ # DI Water ____
Thiosulfate ____ Unpreserved ____

Time and Date Frozen:

Doc# 277
Rev. 4 August 2013

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** **Date/Time:**

RLF 4/20/17 1840

CERTIFICATE OF ANALYSIS

Richard Kowalski
AEI Consultants, Inc.
148 Hathaway Road
Dartmouth, MA 02747

RE: BASF Cranston (363655)
ESS Laboratory Work Order Number: 1704695

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 3:38 pm, May 03, 2017

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704695

SAMPLE RECEIPT

The following samples were received on April 26, 2017 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1704695-01	TP-5 (2-2.5')	Soil	8082A
1704695-02	TP-5 (3.5-4.0')	Soil	8082A
1704695-03	TP-5 (5.5-6')	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704695

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1704695-01 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1704695-02 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

1704695-03 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704695

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston
Client Sample ID: TP-5 (2-2.5')
Date Sampled: 04/26/17 11:30
Percent Solids: 63
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1704695
ESS Laboratory Sample ID: 1704695-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SMR
Prepared: 4/27/17 15:09

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (16600)		8082A		200000	05/01/17 14:17		CD72730
Aroclor 1221	ND (16600)		8082A		200000	05/01/17 14:17		CD72730
Aroclor 1232	ND (16600)		8082A		200000	05/01/17 14:17		CD72730
Aroclor 1242	ND (16600)		8082A		200000	05/01/17 14:17		CD72730
Aroclor 1248	**118000** (16600)		8082A		200000	05/01/17 14:17		CD72730
Aroclor 1254	ND (16600)		8082A		200000	05/01/17 14:17		CD72730
Aroclor 1260	ND (16600)		8082A		200000	05/01/17 14:17		CD72730
Aroclor 1262	ND (16600)		8082A		200000	05/01/17 14:17		CD72730
Aroclor 1268	ND (16600)		8082A		200000	05/01/17 14:17		CD72730

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston
Client Sample ID: TP-5 (3.5-4.0')
Date Sampled: 04/26/17 11:36
Percent Solids: 62
Initial Volume: 19.2
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1704695
ESS Laboratory Sample ID: 1704695-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SMR
Prepared: 4/27/17 15:09

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (835)		8082A		10000	05/01/17 13:40		CD72730
Aroclor 1221	ND (835)		8082A		10000	05/01/17 13:40		CD72730
Aroclor 1232	ND (835)		8082A		10000	05/01/17 13:40		CD72730
Aroclor 1242	ND (835)		8082A		10000	05/01/17 13:40		CD72730
Aroclor 1248	**15500** (835)		8082A		10000	05/01/17 13:40		CD72730
Aroclor 1254	ND (835)		8082A		10000	05/01/17 13:40		CD72730
Aroclor 1260	ND (835)		8082A		10000	05/01/17 13:40		CD72730
Aroclor 1262	ND (835)		8082A		10000	05/01/17 13:40		CD72730
Aroclor 1268	ND (835)		8082A		10000	05/01/17 13:40		CD72730

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston
Client Sample ID: TP-5 (5.5-6')
Date Sampled: 04/26/17 11:40
Percent Solids: 65
Initial Volume: 20
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1704695
ESS Laboratory Sample ID: 1704695-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SMR
Prepared: 4/27/17 15:09

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (1.5)		8082A		20	05/01/17 13:59		CD72730
Aroclor 1221	ND (1.5)		8082A		20	05/01/17 13:59		CD72730
Aroclor 1232	ND (1.5)		8082A		20	05/01/17 13:59		CD72730
Aroclor 1242	ND (1.5)		8082A		20	05/01/17 13:59		CD72730
Aroclor 1248	**13.7** (1.5)		8082A		20	05/01/17 13:59		CD72730
Aroclor 1254	ND (1.5)		8082A		20	05/01/17 13:59		CD72730
Aroclor 1260	ND (1.5)		8082A		20	05/01/17 13:59		CD72730
Aroclor 1262	ND (1.5)		8082A		20	05/01/17 13:59		CD72730
Aroclor 1268	ND (1.5)		8082A		20	05/01/17 13:59		CD72730

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704695

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CD72730 - 3540C										
Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0212*		mg/kg wet	*0.02500*		*85*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0216*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0197*		mg/kg wet	*0.02500*		*79*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0219*		mg/kg wet	*0.02500*		*87*	*30-150*			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		95	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		92	40-140			
Surrogate: Decachlorobiphenyl	*0.0220*		mg/kg wet	*0.02500*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0223*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0218*		mg/kg wet	*0.02500*		*87*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0221*		mg/kg wet	*0.02500*		*89*	*30-150*			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		96	40-140	2	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		95	40-140	3	30	
Surrogate: Decachlorobiphenyl	*0.0223*		mg/kg wet	*0.02500*		*89*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0229*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0215*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0217*		mg/kg wet	*0.02500*		*87*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704695

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704695

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston RI 02910
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1704695

Turn Time 5-day Rush

Regulatory State RI

Reporting Limits < 0.5 ppm

Is this project for any of the following?: ○CT RCP ○MA MCP ○RGP

Electonic Deliverables: ☒ Limit Checker ☒ Standard Excel ☒ Other (Please Specify →) PDF

Company Name	Project #	Project Name
AEF	3123655	BASF Cranston

Contact Person	Address	
Rick Kowalski	112 Water St, 5th Floor	130791

City	State	Zip Code	PO #
Boston	MA	02109	~~FBD~~ ACT

Telephone Number	FAX Number	Email Address
857-350-3519	—	see note 1

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Analysis: PCBs (see note 2)
1	4/26/17	1130	G	S	TP-5 (2-2.5')	X
2	↓	1136	↓	↓	TP-5 (3.5-4.0')	X
3	↓	1140	↓	↓	TP-5 (5.5-6')	X

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer G - Glass O-Other P-Poly S-Sterile V-Vial

Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Ascorbic Acid 12-Other*

Number of Containers per Sample:

Laboratory Use Only

Cooler Present: Yes

Seals Intact: N/A

Cooler Temperature: 3.7 °C Ice

Sampled by: A. Tins

Comments: Please specify "Other" preservative and containers types in this space

note 1: rkowalski@aeiconsultants.com, athng@ "", sgraham@ " "

note 2: PCB Soxhlet Extraction Method SW-845/8082A/3540C

Relinquished by: (Signature, Date & Time)	Received By: (Signature, Date & Time)	Relinquished By: (Signature, Date & Time)	Received By: (Signature, Date & Time)
4/26/17 1347	4/26/17 1347		
Relinquished by: (Signature, Date & Time)	Received By: (Signature, Date & Time)	Relinquished By: (Signature, Date & Time)	Received By: (Signature, Date & Time)

CERTIFICATE OF ANALYSIS

Richard Kowalski
AEI Consultants, Inc.
148 Hathaway Road
Dartmouth, MA 02747

RE: BASF Cranston (363655)
ESS Laboratory Work Order Number: 1704723

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 4:42 pm, May 04, 2017

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704723

SAMPLE RECEIPT

The following samples were received on April 27, 2017 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	Sample Name	Matrix	Analysis
1704723-01	G280 (3.5-4.0')	Soil	8082A

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704723

PROJECT NARRATIVE

8082A Polychlorinated Biphenyls (PCB)

1704723-01 **Surrogate recovery(ies) diluted below the MRL (SD).**
Decachlorobiphenyl (% @ 30-150%), Decachlorobiphenyl [2C] (% @ 30-150%), Tetrachloro-m-xylene (% @ 30-150%), Tetrachloro-m-xylene [2C] (% @ 30-150%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704723

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035 - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston
Client Sample ID: G280 (3.5-4.0')
Date Sampled: 04/27/17 08:10
Percent Solids: 84
Initial Volume: 19.5
Final Volume: 10
Extraction Method: 3540C

ESS Laboratory Work Order: 1704723
ESS Laboratory Sample ID: 1704723-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: SMR
Prepared: 4/28/17 16:20

8082A Polychlorinated Biphenyls (PCB)

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyzed	Sequence	Batch
Aroclor 1016	ND (3.0)		8082A		50	05/04/17 14:09		CD72825
Aroclor 1221	ND (3.0)		8082A		50	05/04/17 14:09		CD72825
Aroclor 1232	ND (3.0)		8082A		50	05/04/17 14:09		CD72825
Aroclor 1242	ND (3.0)		8082A		50	05/04/17 14:09		CD72825
Aroclor 1248	ND (3.0)		8082A		50	05/04/17 14:09		CD72825
Aroclor 1254	**25.6** (3.0)		8082A		50	05/04/17 14:09		CD72825
Aroclor 1260	ND (3.0)		8082A		50	05/04/17 14:09		CD72825
Aroclor 1262	ND (3.0)		8082A		50	05/04/17 14:09		CD72825
Aroclor 1268	ND (3.0)		8082A		50	05/04/17 14:09		CD72825

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	SD	30-150
Surrogate: Decachlorobiphenyl [2C]	%	SD	30-150
Surrogate: Tetrachloro-m-xylene	%	SD	30-150
Surrogate: Tetrachloro-m-xylene [2C]	%	SD	30-150

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704723

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082A Polychlorinated Biphenyls (PCB)										
Batch CD72825 - 3540C										
Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl	*0.0211*		mg/kg wet	*0.02500*		*84*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0215*		mg/kg wet	*0.02500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0228*		mg/kg wet	*0.02500*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0245*		mg/kg wet	*0.02500*		*98*	*30-150*			
LCS										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		102	40-140			
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		98	40-140			
Surrogate: Decachlorobiphenyl	*0.0231*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0233*		mg/kg wet	*0.02500*		*93*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0241*		mg/kg wet	*0.02500*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0242*		mg/kg wet	*0.02500*		*97*	*30-150*			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		100	40-140	2	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		95	40-140	2	30	
Surrogate: Decachlorobiphenyl	*0.0226*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.0225*		mg/kg wet	*0.02500*		*90*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0229*		mg/kg wet	*0.02500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0230*		mg/kg wet	*0.02500*		*92*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston
ESS Laboratory Work Order: 1704723

Notes and Definitions

U	Analyte included in the analysis, but not detected
SD	Surrogate recovery(ies) diluted below the MRL (SD).
D	Diluted.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit

CERTIFICATE OF ANALYSIS

Client Name: AEI Consultants, Inc.
Client Project ID: BASF Cranston

ESS Laboratory Work Order: 1704723

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002
http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752
http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

ESS Laboratory Sample and Cooler Receipt Checklist

Client: AEI Consultants, Inc. - TB/MM

Shipped/Delivered Via: Client

ESS Project ID: 1704723
Date Received: 4/27/2017
Project Due Date: 5/4/2017
Days for Project: 5 Day

1. Air bill manifest present? No
   Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
   Temp: 2.9 Iced with: Ice
5. Was COC signed and dated by client? Yes
6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. **Were labs informed about short holds & rushes?** Yes / No / NA
10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
    ESS Sample IDs:
    Analysis:
    TAT:
12. Were VOAs received? Yes / No
    a. Air bubbles in aqueous VOAs? Yes / No
    b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
    a. If metals preserved upon receipt: Date: Time: By:
    b. Low Level VOA vials frozen: Date: Time: By:

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
    a. Was there a need to contact the client? Yes / No
    Who was contacted? Date: Time: By:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
01	124512	Yes	NA	Yes	4 oz. Jar - Unpres	NP	

2nd Review
Are barcode labels on correct containers? Yes / No

Completed By: Date & Time: 4/27/17 1331
Reviewed By: Date & Time: 4/27/17 1334
Delivered By: 4/27/17 1422

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston RI 02910
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 1704723

Turn Time 5-day Rush

Regulatory State RI

Is this project for any of the following?: ○ CT RCP ○ MA MCP ○ RGP

Reporting Limits <0.5ppm

Electonic Deliverables ☒ Limit Checker ☒ Standard Excel ☒ Other (Please Specify →) PDF

Company Name	Project #	Project Name
AEI	3636655	BASF Cranston

Contact Person	Address
Rick Kowalski	112 Water St, 5th Floor

City	State	Zip Code	PO #
Boston	MA	02109	130791

Telephone Number	FAX Number	Email Address
857-350-3519		see note 1

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Analysis: PCBs (see note 2)
1	4/27/17	0810	G	S	G280 (3.5-4.0')	X

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer G - Glass O-Other P-Poly S-Sterile V-Vial — AG

Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other* — 9

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Ascorbic Acid 12-Other* — 1

Number of Containers per Sample: 1

Laboratory Use Only

Cooler Present: Yes

Seals Intact: NA

Cooler Temperature: 2.9 °C ice

Sampled by: A. Ting

Comments: Please specify "Other" preservative and containers types in this space

note 1: rkowalski@aeiconsultants.com, ating@"", sgraham@"

note 2: PCB Soxhlet Extraction Method (SW-845/8082A/3540C)

Relinquished by: (Signature, Date & Time)	Received By: (Signature, Date & Time)	Relinquished By: (Signature, Date & Time)	Received By: (Signature, Date & Time)
4/27/17 1245	4/27/17 1245		
Relinquished by: (Signature, Date & Time)	Received By: (Signature, Date & Time)	Relinquished By: (Signature, Date & Time)	Received By: (Signature, Date & Time)