

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080216\
 Data File : BG023405.D
 Acq On : 2 Aug 2016 21:00
 Operator : UM/SJ
 Sample : H4270-04MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 KMW-2MSD

Quant Time: Aug 03 02:28:28 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG080116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 01 19:22:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	104502	20.00	ng	0.00
21) Naphthalene-d8	10.96	136	562121	20.00	ng	0.00
38) Acenaphthene-d10	14.79	164	430862	20.00	ng	0.00
63) Phenanthrene-d10	17.55	188	1105800	20.00	ng	0.00
75) Chrysene-d12	21.86	240	943884	20.00	ng	0.00
86) Perylene-d12	25.23	264	943702	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.66	112	495335	79.79	ng	0.00
7) Phenol-d6	7.28	99	526757	54.47	ng	0.00
23) Nitrobenzene-d5	9.30	82	1081058	95.61	ng	0.00
41) 2,4,6-Tribromophenol	16.28	330	1005049	159.48	ng	0.00
44) 2-Fluorobiphenyl	13.40	172	2318384	90.76	ng	0.00
78) Terphenyl-d14	20.15	244	3169676	110.93	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.52	88	40233	15.21	ng	# 89
3) Pyridine	3.94	79	114201	13.14	ng	96
4) n-Nitrosodimethylamine	3.85	42	62883	19.51	ng	80
6) Aniline	7.44	93	383306	27.44	ng	92
8) 2-Chlorophenol	7.68	128	320338	44.91	ng	98
9) Benzaldehyde	7.25	77	212700	38.17	ng	92
10) Phenol	7.31	94	196650	19.01	ng	83
11) bis(2-Chloroethyl)ether	7.53	93	388930	47.13	ng	90
12) 1,3-Dichlorobenzene	8.15	146	342304	41.92	ng	94
13) 1,4-Dichlorobenzene	8.15	146	342304	40.95	ng	95
14) 1,2-Dichlorobenzene	8.48	146	345115	42.09	ng	93
15) Benzyl Alcohol	8.36	79	301252	41.12	ng	94
16) 2,2'-oxybis(1-Chloropropan	8.65	45	548001	45.16	ng	91
17) 2-Methylphenol	8.57	107	279772	40.34	ng	# 87
18) Hexachloroethane	9.21	117	126095	40.08	ng	94
19) n-Nitroso-di-n-propylamine	8.93	70	435316	52.34	ng	98
20) 3+4-Methylphenols	8.90	107	367156	37.55	ng	89
22) Acetophenone	8.95	105	615380	39.98	ng	# 91
24) Nitrobenzene	9.34	77	594331	47.47	ng	# 89
25) Isophorone	9.86	82	1178013	50.02	ng	# 95
26) 2-Nitrophenol	10.06	139	246712	46.69	ng	# 75
27) 2,4-Dimethylphenol	10.11	122	399881	44.44	ng	86
28) bis(2-Chloroethoxy)methane	10.35	93	660373	46.64	ng	96
29) 2,4-Dichlorophenol	10.60	162	461578	51.02	ng	98
30) 1,2,4-Trichlorobenzene	10.82	180	422028	43.25	ng	98
31) Naphthalene	11.00	128	1258266	43.96	ng	99
32) Benzoic acid	10.21	122	60729	12.79	ng	90
33) 4-Chloroaniline	11.11	127	331166	24.20	ng	90
34) Hexachlorobutadiene	11.28	225	260515	40.60	ng	96
35) Caprolactam	11.90	113	35428	9.31	ng	# 67
36) 4-Chloro-3-methylphenol	12.24	107	557183	46.87	ng	93
37) 2-Methylnaphthalene	12.82	142	1002097	46.05	ng	93
39) 1,2,4,5-Tetrachlorobenzene	12.98	216	525338	33.62	ng	100
40) Hexachlorocyclopentadiene	12.95	237	611954	77.67	ng	98

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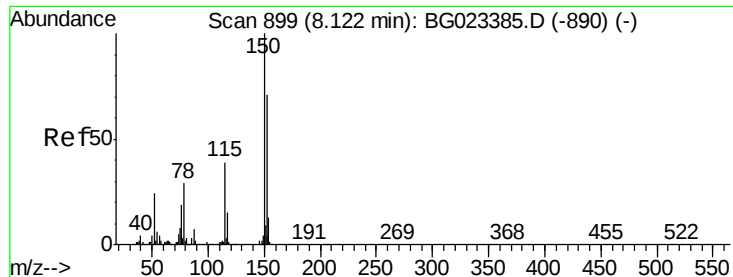
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) 2,4,6-Trichlorophenol	13.22	196	451640	48.52	ng	99
43) 2,4,5-Trichlorophenol	13.29	196	484752	50.59	ng	92
45) 1,1'-Biphenyl	13.61	154	1315981	39.95	ng	93
46) 2-Chloronaphthalene	13.66	162	1151320	45.18	ng	95
47) 2-Nitroaniline	13.87	65	538090	50.86	ng	90
48) Acenaphthylene	14.51	152	1871055	46.45	ng	97
49) Dimethylphthalate	14.23	163	1722237	52.10	ng	# 95
50) 2,6-Dinitrotoluene	14.36	165	396402	50.63	ng	86
51) Acenaphthene	14.85	154	1209862	47.42	ng	96
52) 3-Nitroaniline	14.70	138	290547	32.91	ng	# 80
53) 2,4-Dinitrophenol	14.90	184	533468	106.31	ng	90
54) Dibenzofuran	15.19	168	1893132	51.10	ng	99
55) 4-Nitrophenol	15.02	139	257369	37.12	ng	# 84
56) 2,4-Dinitrotoluene	15.15	165	590089	53.71	ng	97
57) Fluorene	15.84	166	1588605	49.14	ng	99
58) 2,3,4,6-Tetrachlorophenol	15.41	232	499455	56.80	ng	95
59) Diethylphthalate	15.59	149	1720544	51.27	ng	95
60) 4-Chlorophenyl-phenylether	15.82	204	843238	49.29	ng	99
61) 4-Nitroaniline	15.87	138	420789	44.77	ng	# 70
62) Azobenzene	16.12	77	1863388	54.78	ng	90
64) 4,6-Dinitro-2-methylphenol	15.92	198	393192	52.30	ng	95
65) n-Nitrosodiphenylamine	16.04	169	1512725	46.64	ng	93
66) 4-Bromophenyl-phenylether	16.72	248	640416	49.69	ng	96
67) Hexachlorobenzene	16.84	284	684703	48.56	ng	97
68) Atrazine	16.99	200	660993	53.07	ng	96
69) Pentachlorophenol	17.19	266	828002	100.72	ng	99
70) Phenanthrene	17.59	178	2596980	46.28	ng	93
71) Anthracene	17.68	178	2634012	46.67	ng	93
72) Carbazole	17.95	167	2455229	49.54	ng	95
73) Di-n-butylphthalate	18.49	149	2777572	57.39	ng	# 96
74) Fluoranthene	19.60	202	2876843	56.77	ng	90
76) Benzidine	19.78	184	441067	16.81	ng	98
77) Pyrene	19.96	202	2854064	55.44	ng	94
79) Butylbenzylphthalate	20.84	149	1216097	53.51	ng	96
80) Benzo(a)anthracene	21.84	228	2495035	47.89	ng	99
81) 3,3'-Dichlorobenzidine	21.75	252	669051	31.31	ng	# 95
82) Chrysene	21.91	228	2338626	47.18	ng	96
83) Bis(2-ethylhexyl)phthalate	21.72	149	1524058	48.97	ng	98
84) Di-n-octyl phthalate	22.98	149	2528064	47.59	ng	100
85) Indeno(1,2,3-cd)pyrene	29.11	276	3220883	52.00	ng	# 100
87) Benzo(b)fluoranthene	24.16	252	2689217	50.65	ng	# 96
88) Benzo(k)fluoranthene	24.23	252	2522475	49.46	ng	# 96
89) Benzo(a)pyrene	25.08	252	2568858	50.87	ng	# 97
90) Dibenzo(a,h)anthracene	29.18	278	2658102	51.53	ng	# 91
91) Benzo(g,h,i)perylene	30.31	276	2655578	51.12	ng	# 93

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.12 min Scan# 899

Delta R.T. -0.00 min

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Acq: 2 Aug 2016 21:00

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BNA_G

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KMW-2MSD

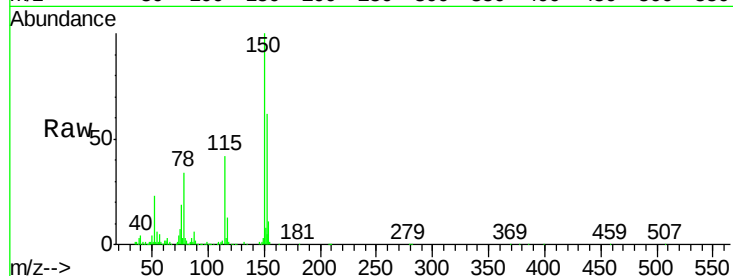
Tgt Ion:152 Resp: 104502

Ion Ratio Lower Upper

152 100

150 161.2 144.7 217.1

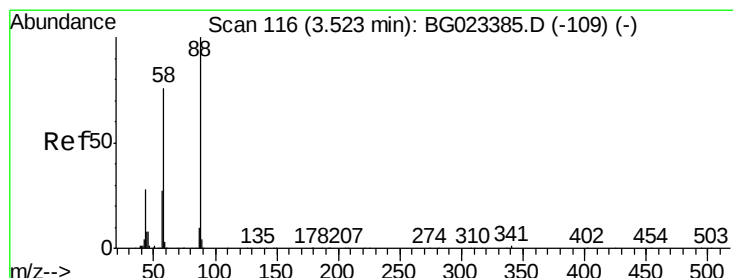
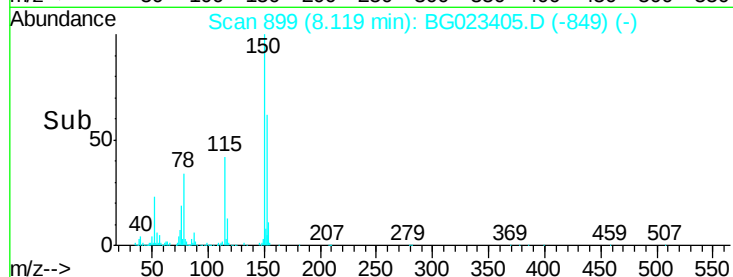
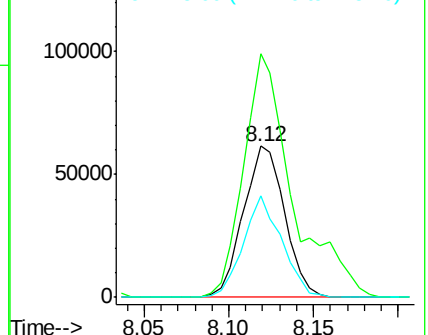
115 67.1 64.0 96.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 15.21 ng

RT: 3.52 min Scan# 116

Delta R.T. -0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

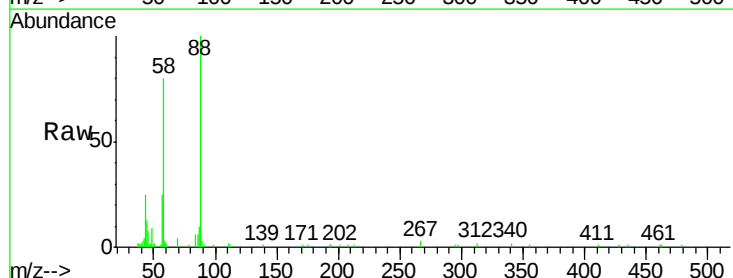
Tgt Ion: 88 Resp: 40233

Ion Ratio Lower Upper

88 100

58 82.7 60.4 90.6

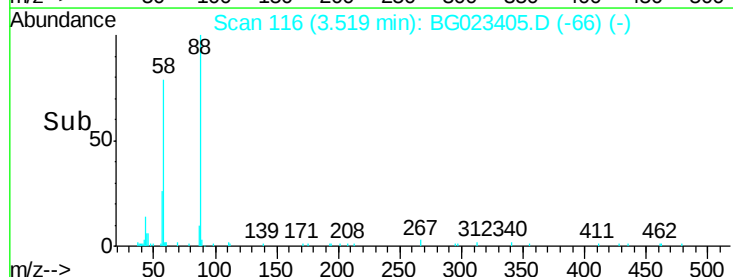
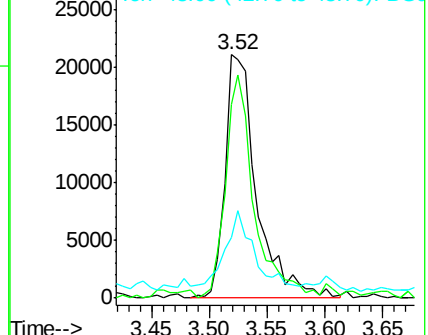
43 29.6 31.1 46.7#

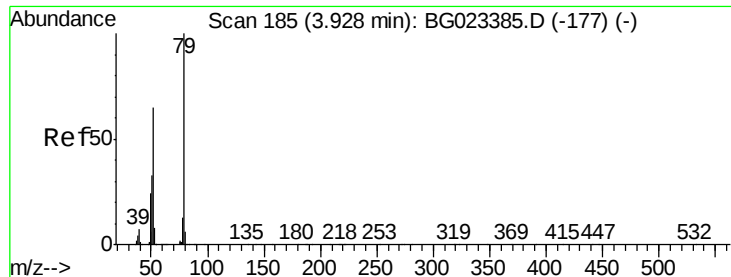


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#3

Pyridine

Concen: 13.14 ng

RT: 3.94 min Scan# 187

Delta R.T. 0.01 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

Instrument :

BNA_G

ClientSampleId :

KMW-2MSD

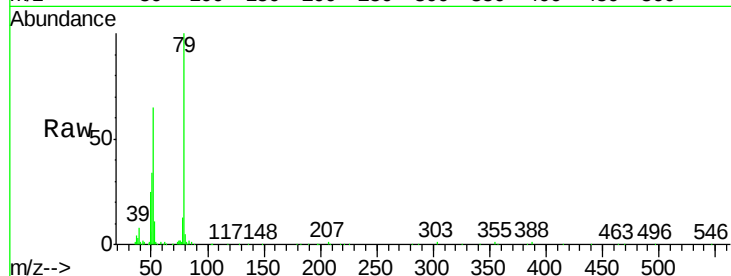
Tgt Ion: 79 Resp: 114201

Ion Ratio Lower Upper

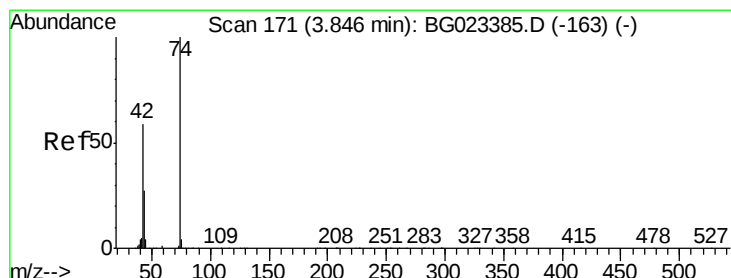
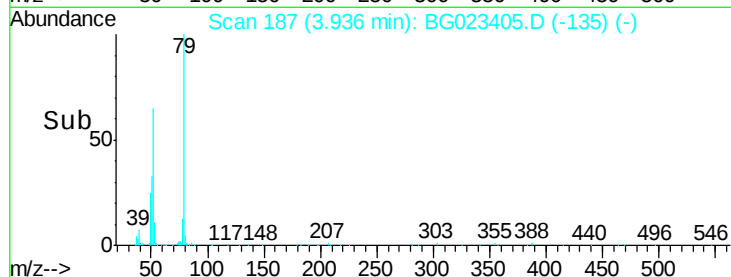
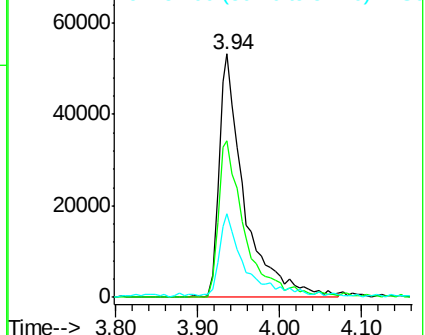
79 100

52 64.6 51.8 77.8

51 34.3 32.7 49.1



Abundance Ion 79.00 (78.70 to 79.70): BGC
Ion 52.00 (51.70 to 52.70): BGC
Ion 51.00 (50.70 to 51.70): BGC



#4

n-Nitrosodimethylamine

Concen: 19.51 ng

RT: 3.85 min Scan# 172

Delta R.T. 0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

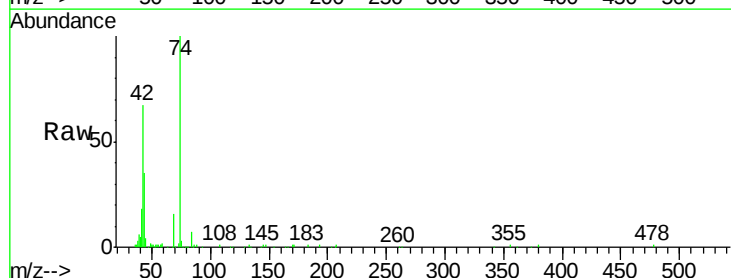
Tgt Ion: 42 Resp: 62883

Ion Ratio Lower Upper

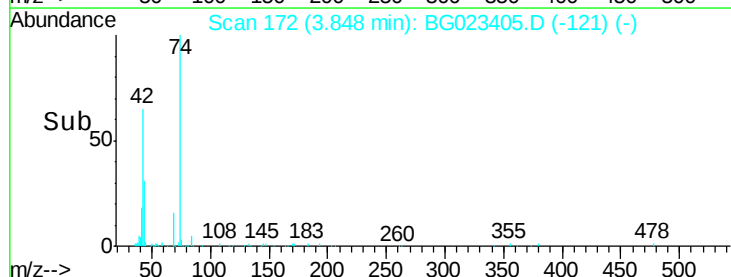
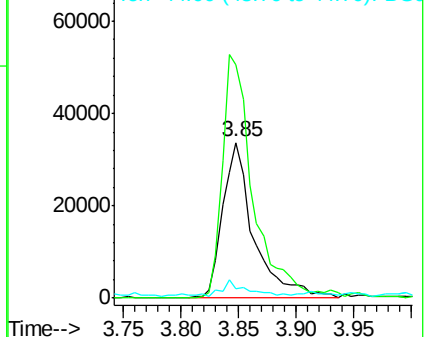
42 100

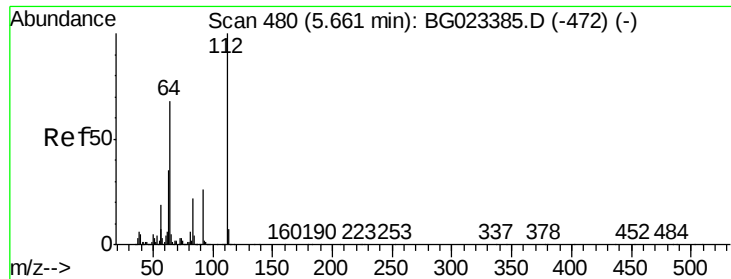
74 149.9 100.6 150.8

44 6.3 4.5 6.7



Abundance Ion 42.00 (41.70 to 42.70): BGC
Ion 74.00 (73.70 to 74.70): BGC
Ion 44.00 (43.70 to 44.70): BGC





#5

2-Fluorophenol

Concen: 79.79 ng

RT: 5.66 min Scan# 481

Delta R.T. 0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

Instrument :

BNA_G

ClientSampleId :

KMW-2MSD

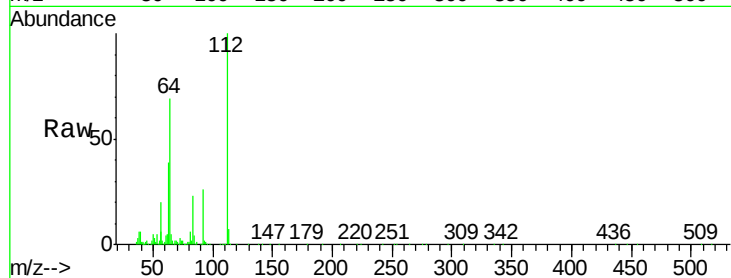
Tgt Ion: 112 Resp: 495335

Ion Ratio Lower Upper

112 100

64 69.0 59.0 88.4

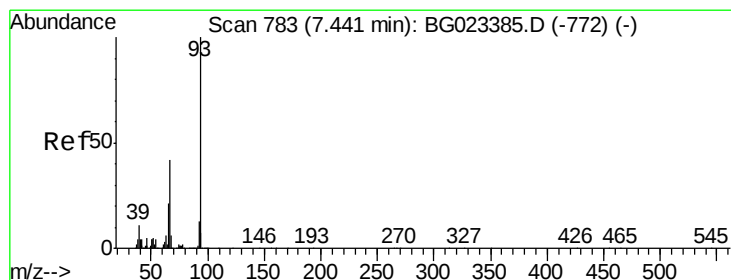
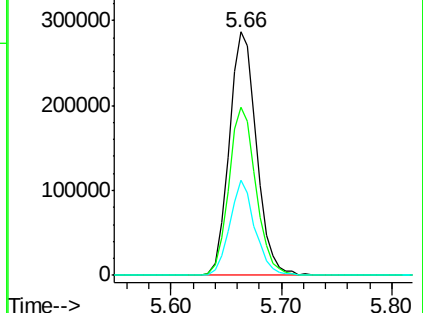
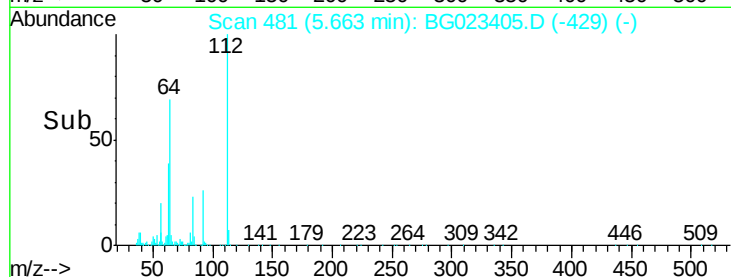
63 39.1 37.8 56.8



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#6

Aniline

Concen: 27.44 ng

RT: 7.44 min Scan# 783

Delta R.T. -0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

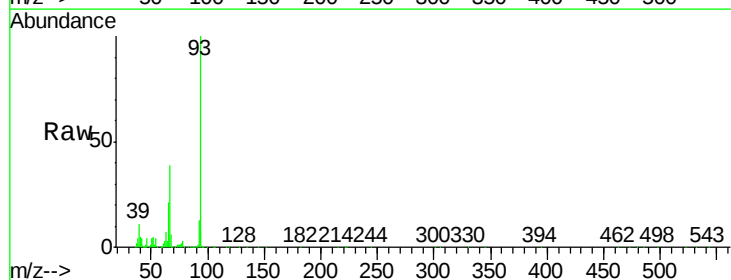
Tgt Ion: 93 Resp: 383306

Ion Ratio Lower Upper

93 100

66 39.4 37.5 56.3

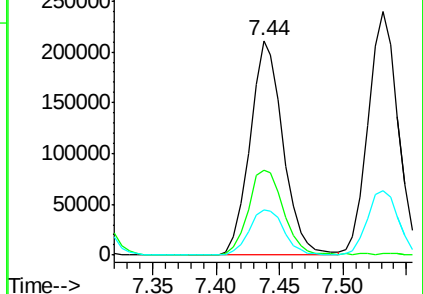
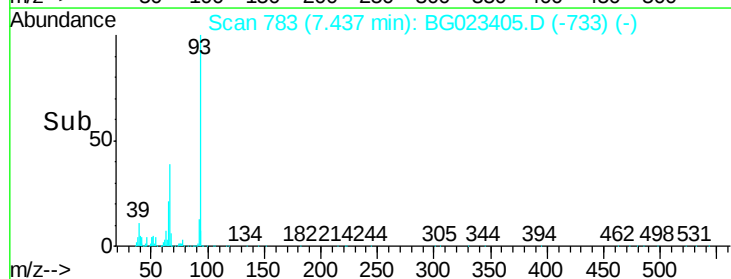
65 21.4 17.9 26.9

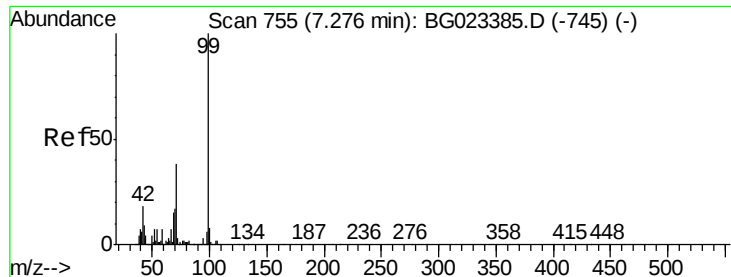


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#7

Phenol-d6

Concen: 54.47 ng

RT: 7.28 min Scan# 756

Delta R.T. 0.00 min

Lab File: BG023405.D

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ClientSampleId :

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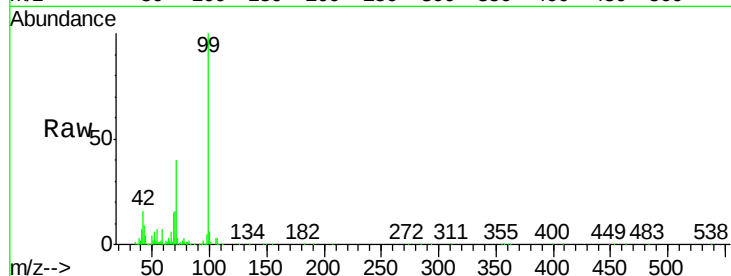
Tgt Ion: 99 Resp: 526757

Ion Ratio Lower Upper

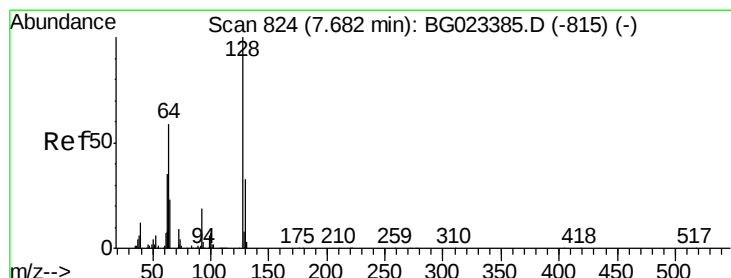
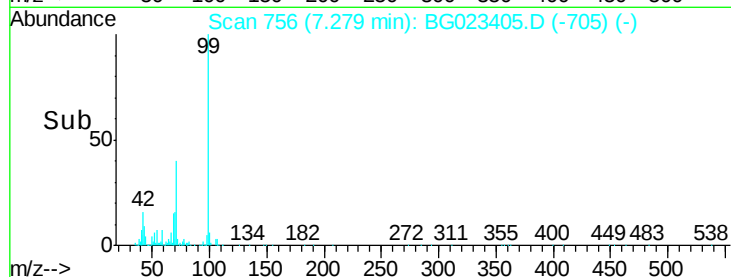
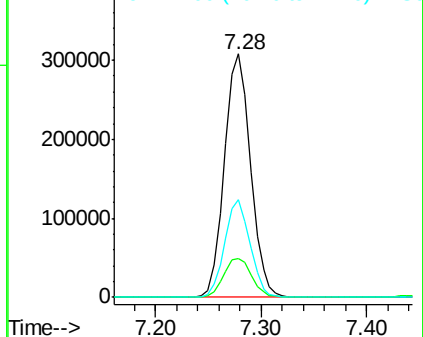
99 100

42 15.9 17.8 26.6#

71 40.0 41.5 62.3#



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#8

2-Chlorophenol

Concen: 44.91 ng

RT: 7.68 min Scan# 825

Delta R.T. 0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

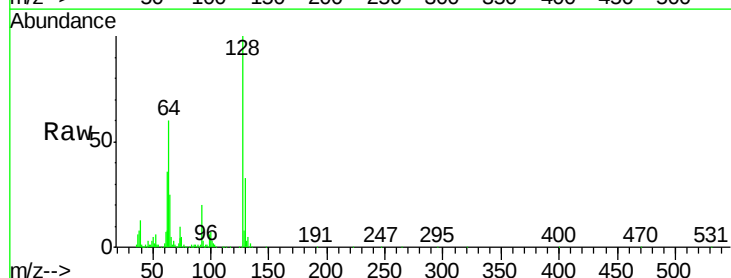
Tgt Ion: 128 Resp: 320338

Ion Ratio Lower Upper

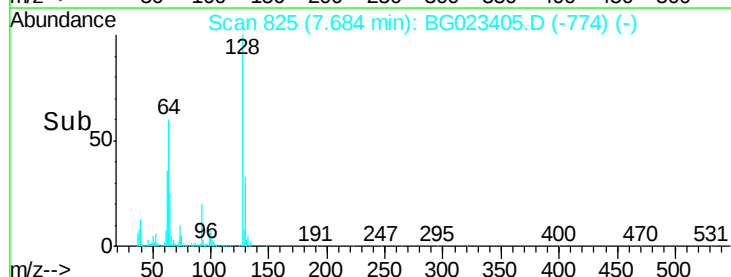
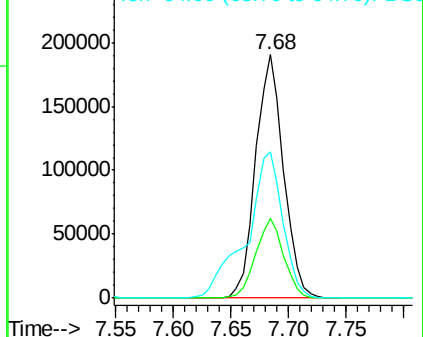
128 100

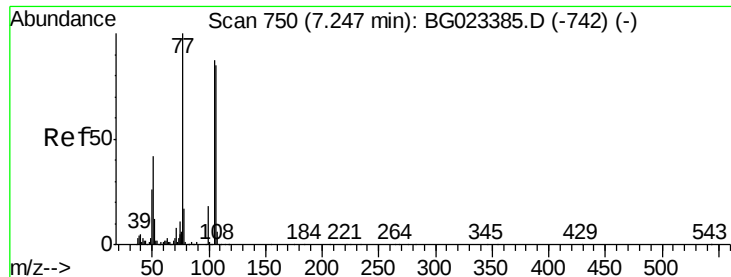
130 33.0 12.9 52.9

64 59.9 42.0 82.0



Abundance Ion 128.00 (127.70 to 128.70): BGC
Ion 130.00 (129.70 to 130.70): BGC
Ion 64.00 (63.70 to 64.70): BGC





#9

Benzaldehyde

Concen: 38.17 ng

RT: 7.25 min Scan# 751

Delta R.T. 0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

Instrument :

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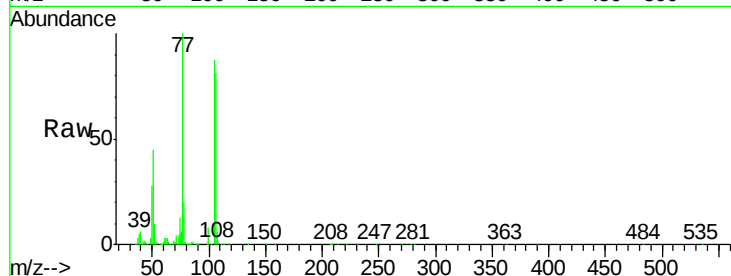
Tgt Ion: 77 Resp: 212700

Ion Ratio Lower Upper

77 100

105 87.5 58.7 98.7

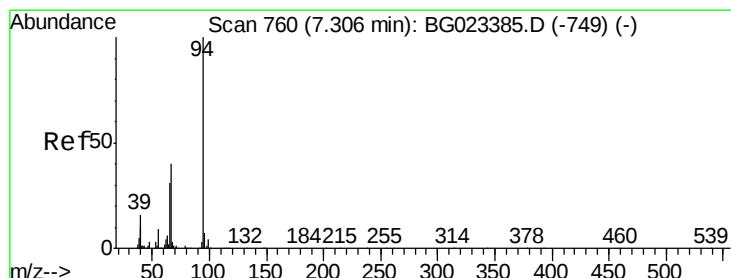
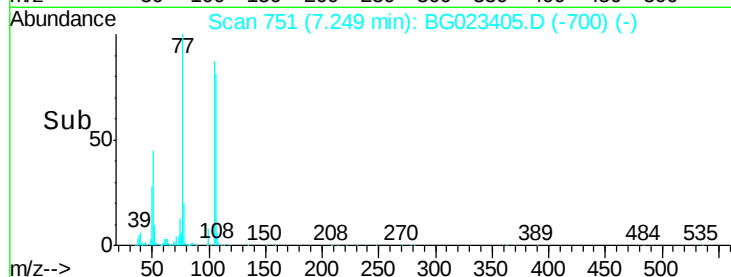
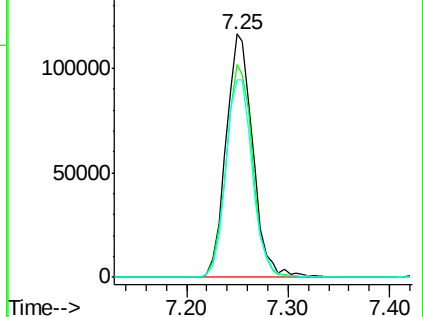
106 81.0 67.5 107.5



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC



#10

Phenol

Concen: 19.01 ng

RT: 7.31 min Scan# 761

Delta R.T. 0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

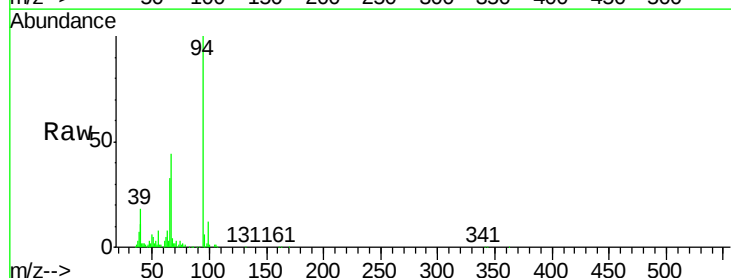
Tgt Ion: 94 Resp: 196650

Ion Ratio Lower Upper

94 100

65 33.0 18.1 58.1

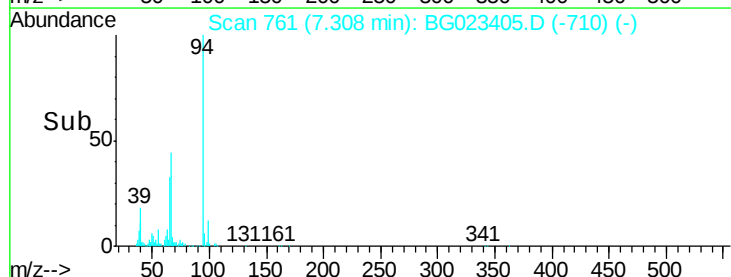
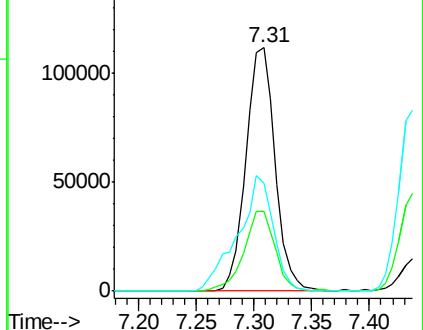
66 44.5 42.1 82.1

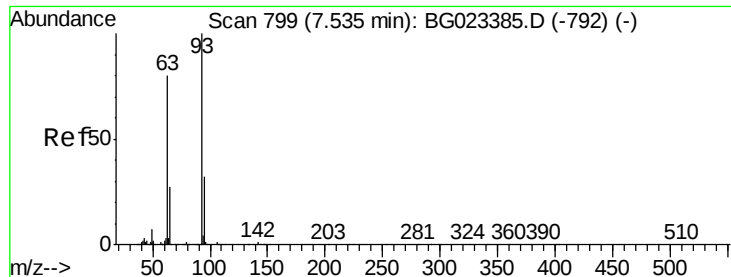


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

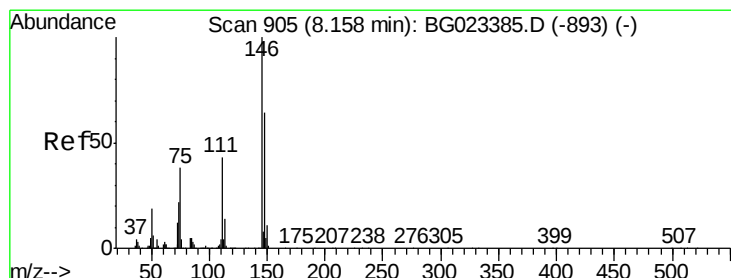
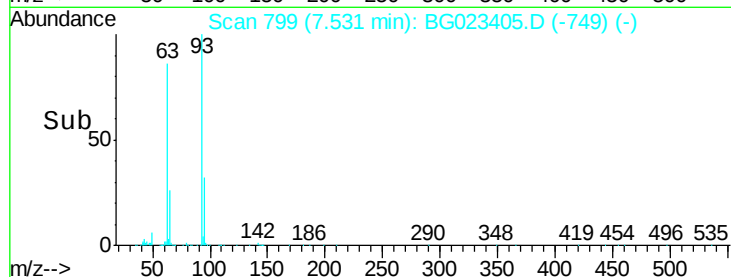
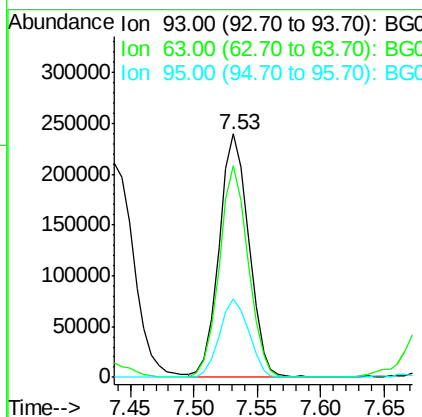
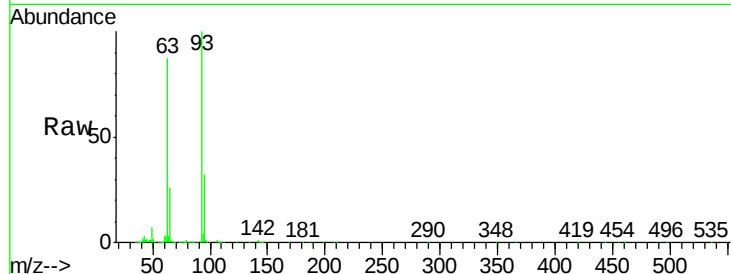




#11
bis(2-Chloroethyl)ether
Concen: 47.13 ng
RT: 7.53 min Scan# 799
Delta R.T. -0.00 min
Lab File: BG023405.D
Acq: 2 Aug 2016 21:00

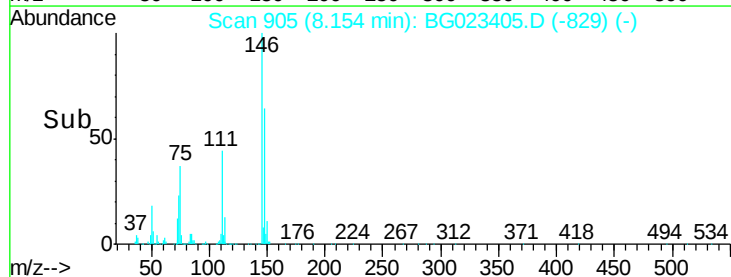
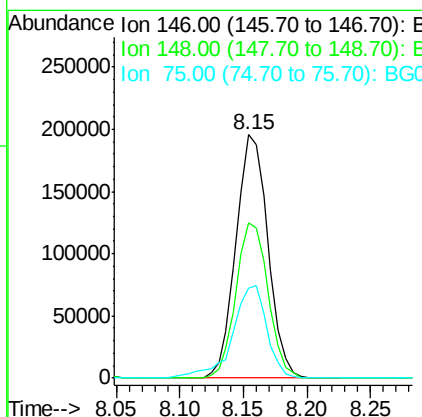
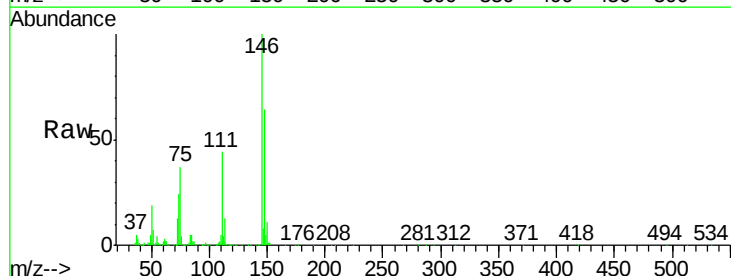
Instrument :
BNA_G
ClientSampleId :
KMW-2MSD

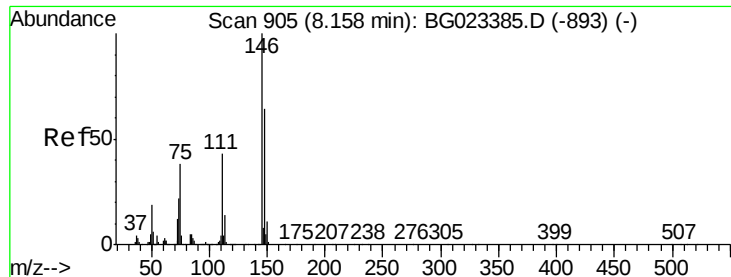
Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.7	55.0	95.0
95	32.2	11.0	51.0



#12
1,3-Dichlorobenzene
Concen: 41.92 ng
RT: 8.15 min Scan# 905
Delta R.T. 0.15 min
Lab File: BG023405.D
Acq: 2 Aug 2016 21:00

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.3	75.5
75	37.2	37.0	55.6

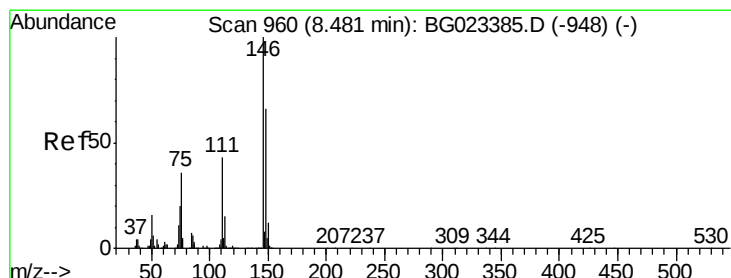
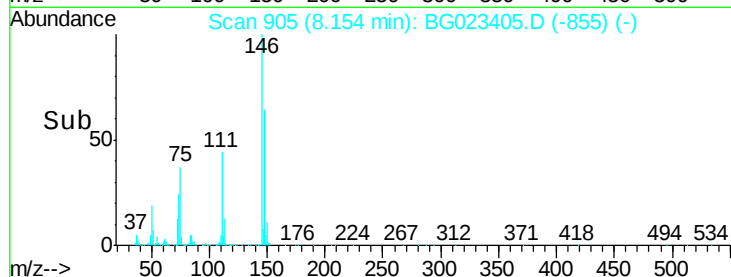
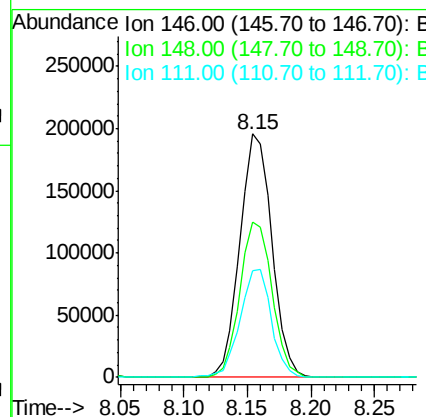
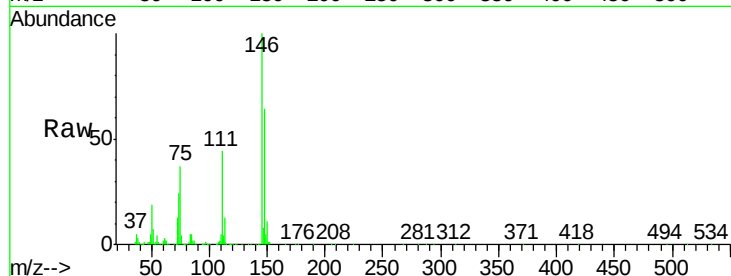




#13
 1,4-Dichlorobenzene
 Concen: 40.95 ng
 RT: 8.15 min Scan# 905
 Delta R.T. -0.00 min
 Lab File: BG023405.D
 Acq: 2 Aug 2016 21:00

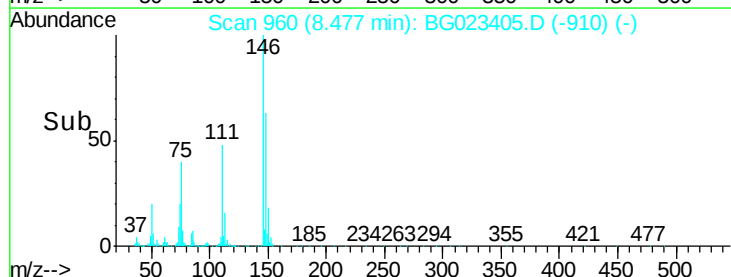
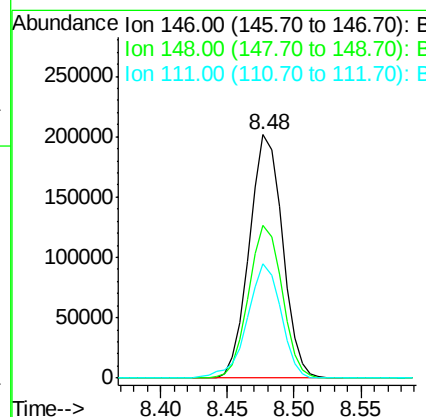
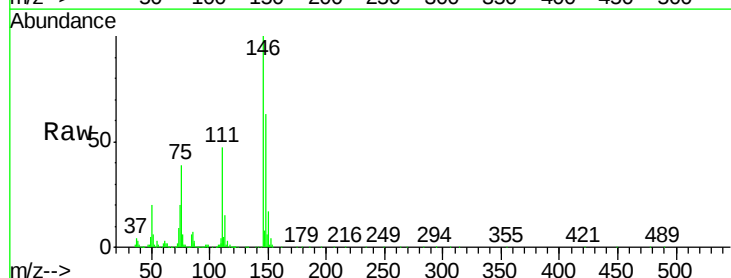
Instrument :
 BNA_G
 ClientSampleId :
 KMW-2MSD

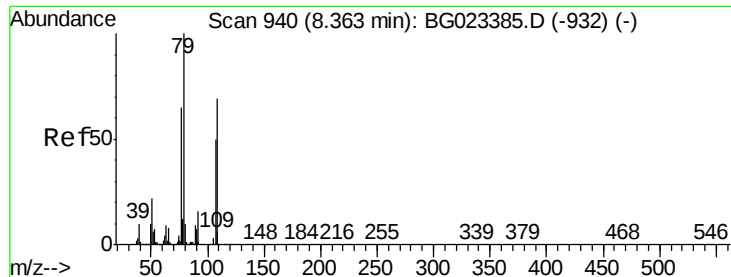
Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.6	54.5	81.7
111	43.7	37.8	56.8



#14
 1,2-Dichlorobenzene
 Concen: 42.09 ng
 RT: 8.48 min Scan# 960
 Delta R.T. -0.00 min
 Lab File: BG023405.D
 Acq: 2 Aug 2016 21:00

Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.7	52.9	79.3
111	46.9	43.5	65.3





#15

Benzyl Alcohol

Concen: 41.12 ng

RT: 8.36 min Scan# 940

Delta R.T. -0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

Instrument :

BNA_G

ClientSampleId :

KMW-2MSD

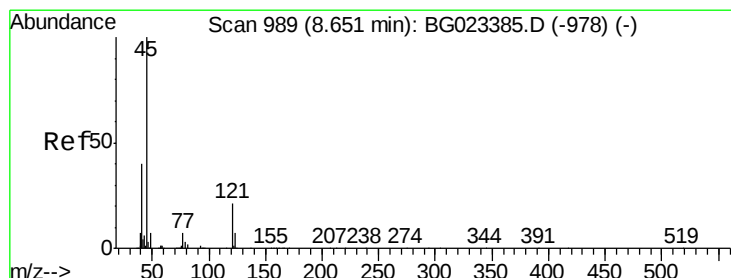
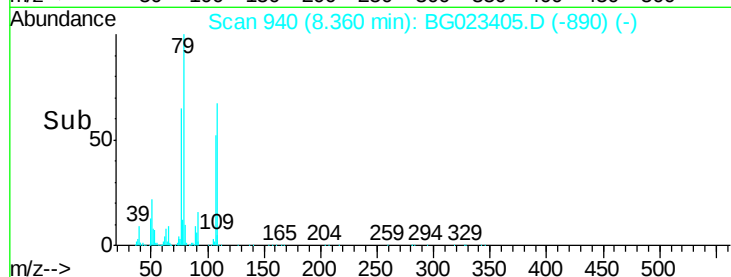
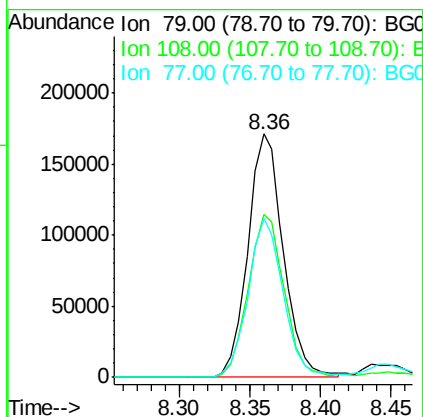
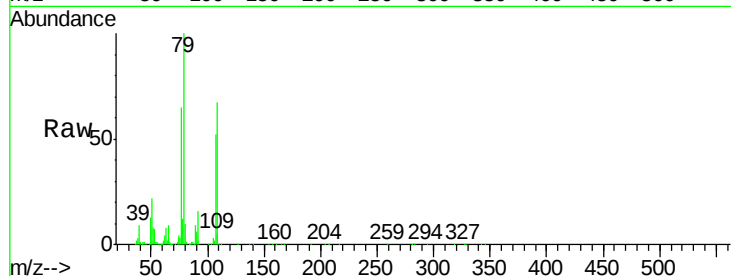
Tgt Ion: 79 Resp: 301252

Ion Ratio Lower Upper

79 100

108 66.8 46.5 69.7

77 65.2 52.3 78.5



#16

2,2'-oxybis(1-Chloropropane)

Concen: 45.16 ng

RT: 8.65 min Scan# 990

Delta R.T. 0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

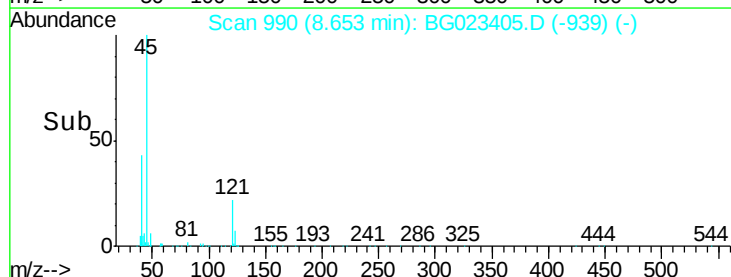
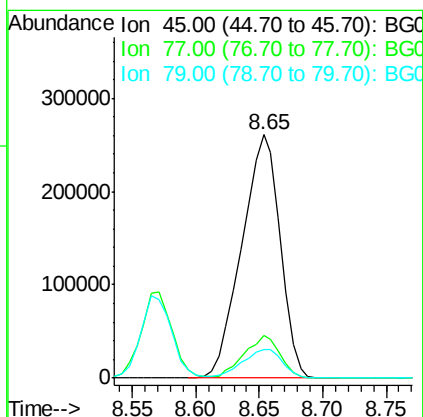
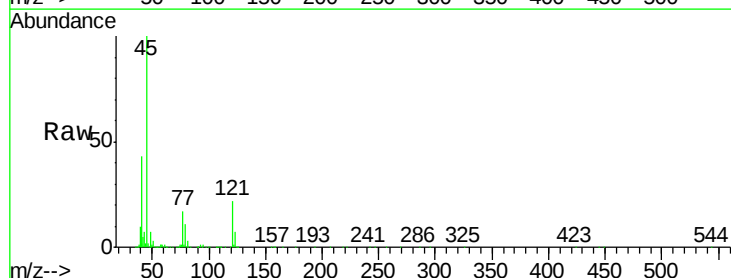
Tgt Ion: 45 Resp: 548001

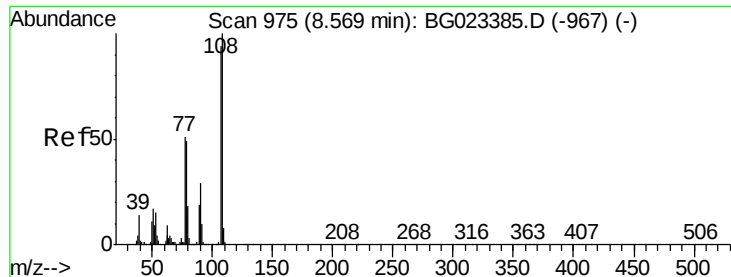
Ion Ratio Lower Upper

45 100

77 17.3 0.6 40.6

79 11.5 0.0 36.2





#17

2-Methylphenol

Concen: 40.34 ng

RT: 8.57 min Scan# 976

Delta R.T. 0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

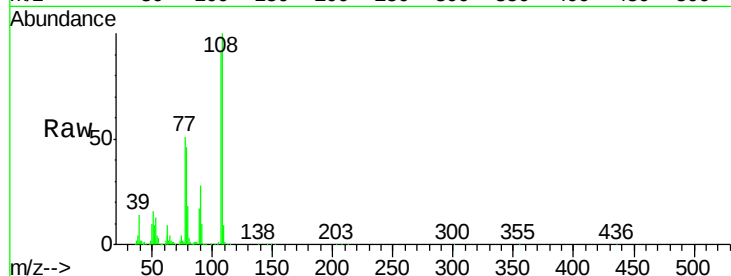
Instrument :

BNA_G

ClientSampleId :

KMW-2MSD

Tgt Ion:	107	Resp:	279772
Ion	Ratio	Lower	Upper
107	100		
108	109.7	92.0	138.0
77	55.7	55.8	83.6#
79	51.0	55.0	82.6#

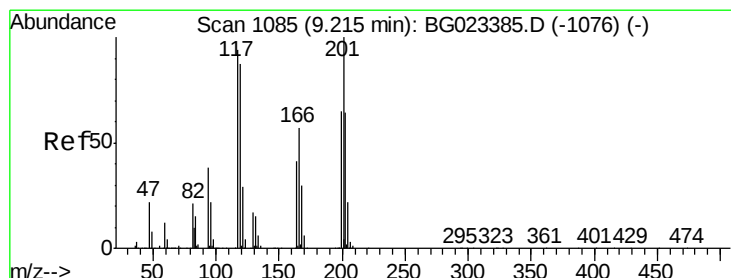
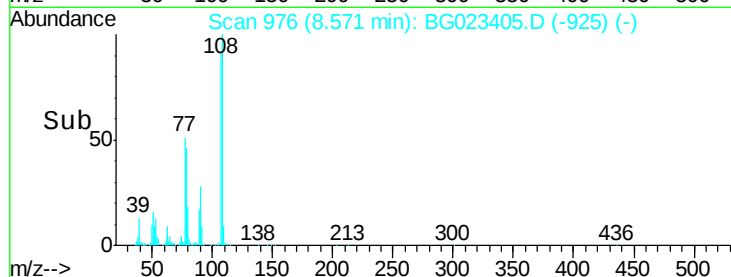
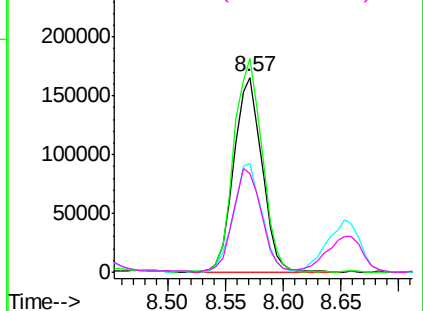


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BG

Ion 79.00 (78.70 to 79.70): BG



#18

Hexachloroethane

Concen: 40.08 ng

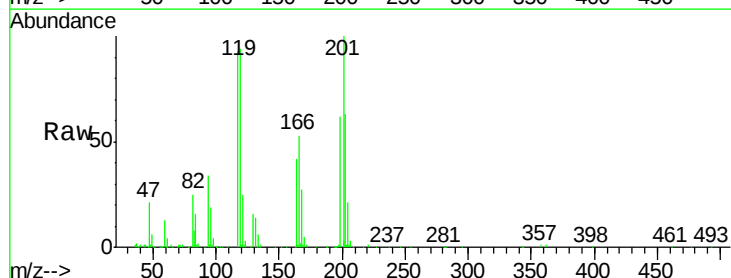
RT: 9.21 min Scan# 1085

Delta R.T. -0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

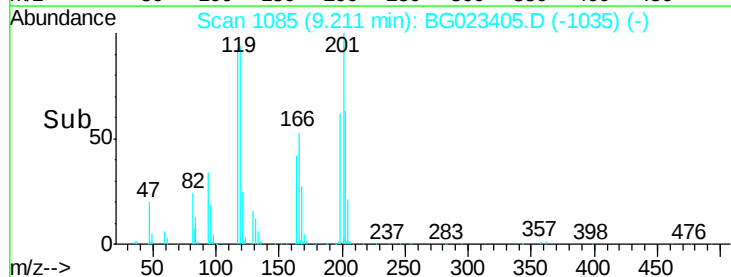
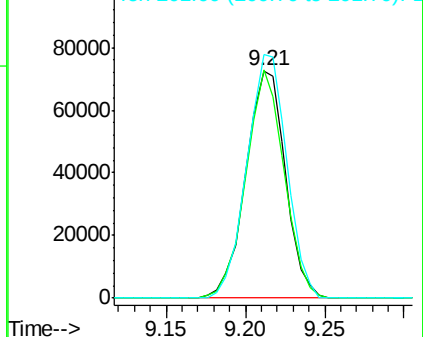
Tgt Ion:	117	Resp:	126095
Ion	Ratio	Lower	Upper
117	100		
119	100.3	73.7	110.5
201	107.3	88.7	133.1

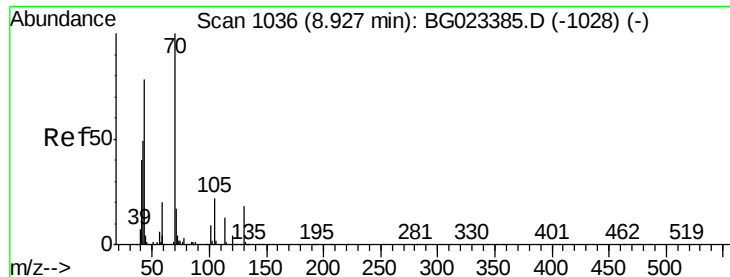


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

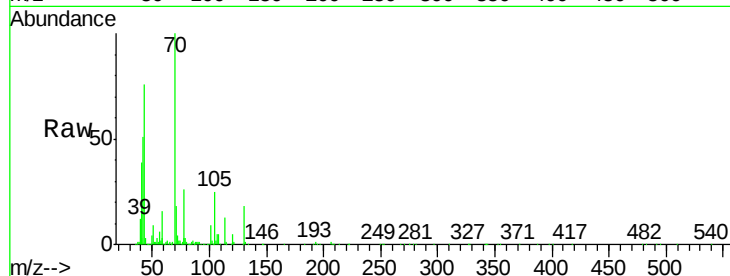




#19
n-Nitroso-di-n-propylamine
Concen: 52.34 ng
RT: 8.93 min Scan# 1037
Delta R.T. 0.00 min
Lab File: BG023405.D
Acq: 2 Aug 2016 21:00

Instrument :
BNA_G
ClientSampleId :
KMW-2MSD

Tgt Ion:	70	Resp:	435316
Ion	Ratio	Lower	Upper
70	100		
42	50.7	42.1	63.1
101	9.0	7.2	10.8
130	17.6	14.2	21.2



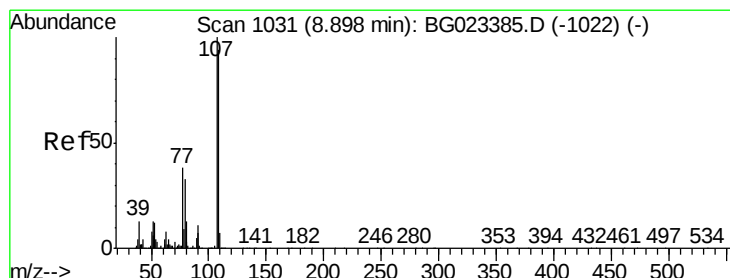
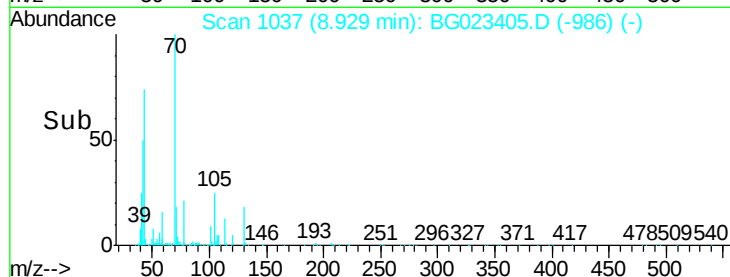
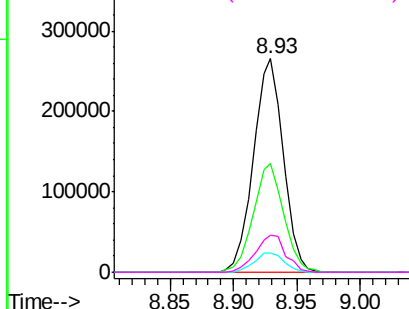
Abundance

Ion 70.00 (69.70 to 70.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

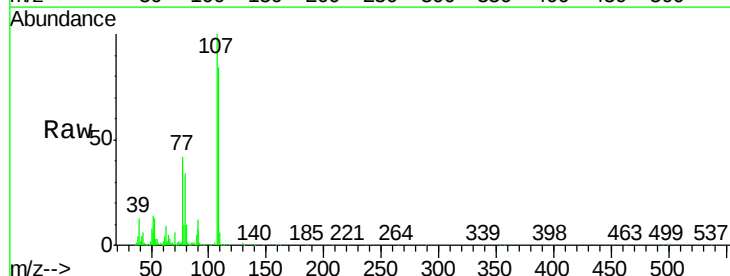
Ion 101.00 (100.70 to 101.70): BGC

Ion 130.00 (129.70 to 130.70): BGC



#20
3+4-Methylphenols
Concen: 37.55 ng
RT: 8.90 min Scan# 1032
Delta R.T. 0.00 min
Lab File: BG023405.D
Acq: 2 Aug 2016 21:00

Tgt Ion:	107	Resp:	367156
Ion	Ratio	Lower	Upper
107	100		
108	84.3	72.5	112.5
77	42.0	30.1	70.1
79	34.3	24.2	64.2



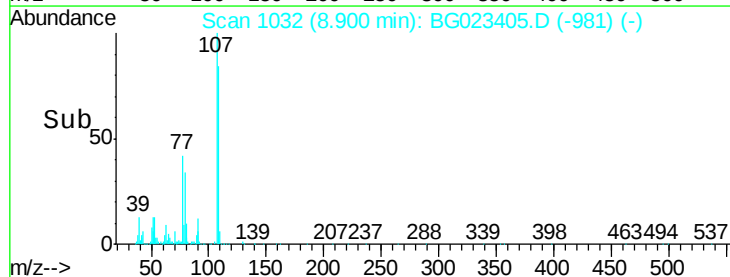
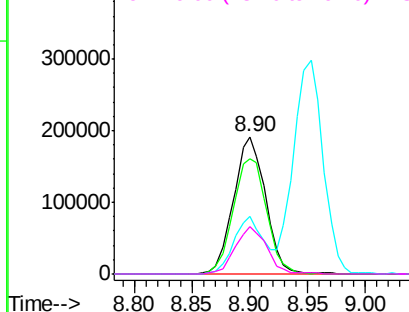
Abundance

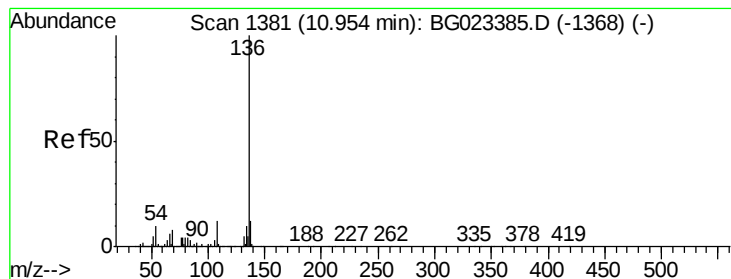
Ion 107.00 (106.70 to 107.70): BGC

Ion 108.00 (107.70 to 108.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.96 min Scan# 1382

Delta R.T. 0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

Instrument :

BNA_G

ClientSampleId :

KMW-2MSD

Tgt Ion:136 Resp: 562121

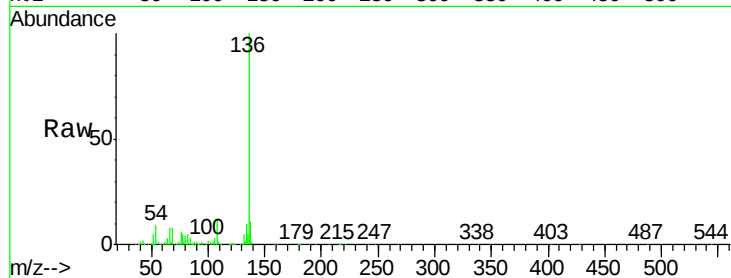
Ion Ratio Lower Upper

136 100

137 10.6 9.6 14.4

54 8.8 7.3 10.9

68 7.5 5.3 7.9

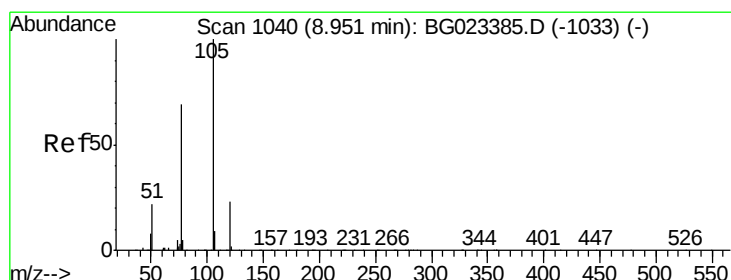
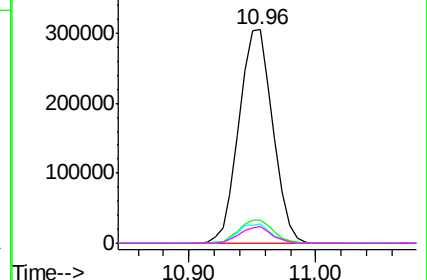
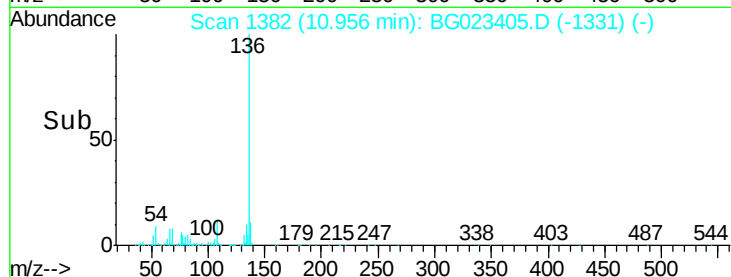


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#22

Acetophenone

Concen: 39.98 ng

RT: 8.95 min Scan# 1041

Delta R.T. 0.00 min

Lab File: BG023405.D

Acq: 2 Aug 2016 21:00

Tgt Ion:105 Resp: 615380

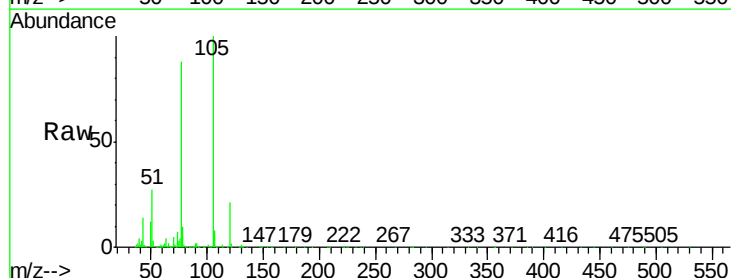
Ion Ratio Lower Upper

105 100

71 0.6 2.6 3.8#

51 27.3 27.1 40.7

120 20.5 15.1 22.7



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BGC

Ion 51.00 (50.70 to 51.70): BGC

Ion 120.00 (119.70 to 120.70): E

