

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
 Data File : BG025029.D
 Acq On : 9 Dec 2016 5:48
 Operator : UM/SJ
 Sample : H5863-22
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA802

Quant Time: Dec 09 06:35:48 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 09 01:31:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.24	152	86829	20.00	ng/ul	0.00
18) Naphthalene-d8	11.08	136	376535	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.87	164	317916	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.61	188	656022	20.00	ng/ul	0.00
75) Chrysene-d12	21.90	240	861504	20.00	ng/ul	0.00
83) Perylene-d12	25.32	264	909255	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.59	96	25247	15.02	ng/uL	-0.01
5) Phenol-d5	7.39	99	219967	29.36	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.56	67	147247	31.77	ng/ul	0.00
9) 2-Chlorophenol-d4	7.77	132	159590	30.47	ng/ul	0.00
13) 4-Methylphenol-d8	8.94	113	195752	31.27	ng/ul	0.00
19) Nitrobenzene-d5	9.48	128	189	0.07	ng/ul	0.06
22) 2-Nitrophenol-d4	10.15	143	105301	31.68	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.69	165	202851	31.73	ng/ul	0.00
29) 4-Chloroaniline-d4	11.22	131	656770	104.54	ng/ul	0.01
43) Dimethylphthalate-d6	14.27	166	747614	34.19	ng/ul	0.02
46) Acenaphthylene-d8	14.57	160	829172	34.62	ng/ul	0.01
51) 4-Nitrophenol-d4	15.07	143	163816	43.59	ng/ul	0.02
57) Fluorene-d10	15.86	176	931779	45.27	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.98	200	163813	40.39	ng/ul	0.02
70) Anthracene-d10	17.71	188	1039606	37.55	ng/ul	0.00
76) Pyrene-d10	19.98	212	1253435	35.32	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.08	264	1409597	38.26	ng/ul	0.01

Target Compounds

						Qvalue
4) Benzaldehyde	7.37	77	40608	7.20	ng/ul#	1
6) Phenol	7.42	94	138913	18.07	ng/ul	96
11) 2-Methylphenol	8.68	108	203397	35.93	ng/ul	93
14) Acetophenone	9.04	105	251752	26.43	ng/ul#	40
16) 4-Methylphenol	9.01	108	643715	102.21	ng/ul	90
17) Hexachloroethane	9.35	117	67312	28.85	ng/ul#	1
20) Nitrobenzene	9.43	77	24042	2.93	ng/ul#	17
24) 2,4-Dimethylphenol	10.22	107	796436	103.29	ng/ul	96
25) Bis(2-Chloroethoxy)methane	10.49	93	79839	10.10	ng/ul#	1
27) 2,4-Dichlorophenol	10.70	162	154981	24.97	ng/ul#	33
28) Naphthalene	11.13	128	1874070	107.07	ng/ul	98
30) 4-Chloroaniline	11.31	127	8817	1.37	ng/ul	88
34) 2-Methylnaphthalene	12.72	142	2854264	206.64	ng/ul	94
40) 1,1'-Biphenyl	13.71	154	695114	36.06	ng/ul	99
41) 2-Chloronaphthalene	13.80	162	28524	1.86	ng/ul#	37
44) Dimethylphthalate	14.32	163	267827	12.46	ng/ul#	96
45) 2,6-Dinitrotoluene	14.47	165	6100	1.32	ng/ul#	1
47) Acenaphthylene	14.60	152	69600	2.99	ng/ul#	10
49) Acenaphthene	14.94	153	187508	11.75	ng/ul#	86
52) 4-Nitrophenol	15.07	109	7835	1.73	ng/ul#	6
53) Dibenzofuran	15.26	168	477084	18.91	ng/ul	96
54) 2,4-Dinitrotoluene	15.21	165	9207	1.32	ng/ul#	1
58) Fluorene	15.91	166	506180	24.64	ng/ul#	95

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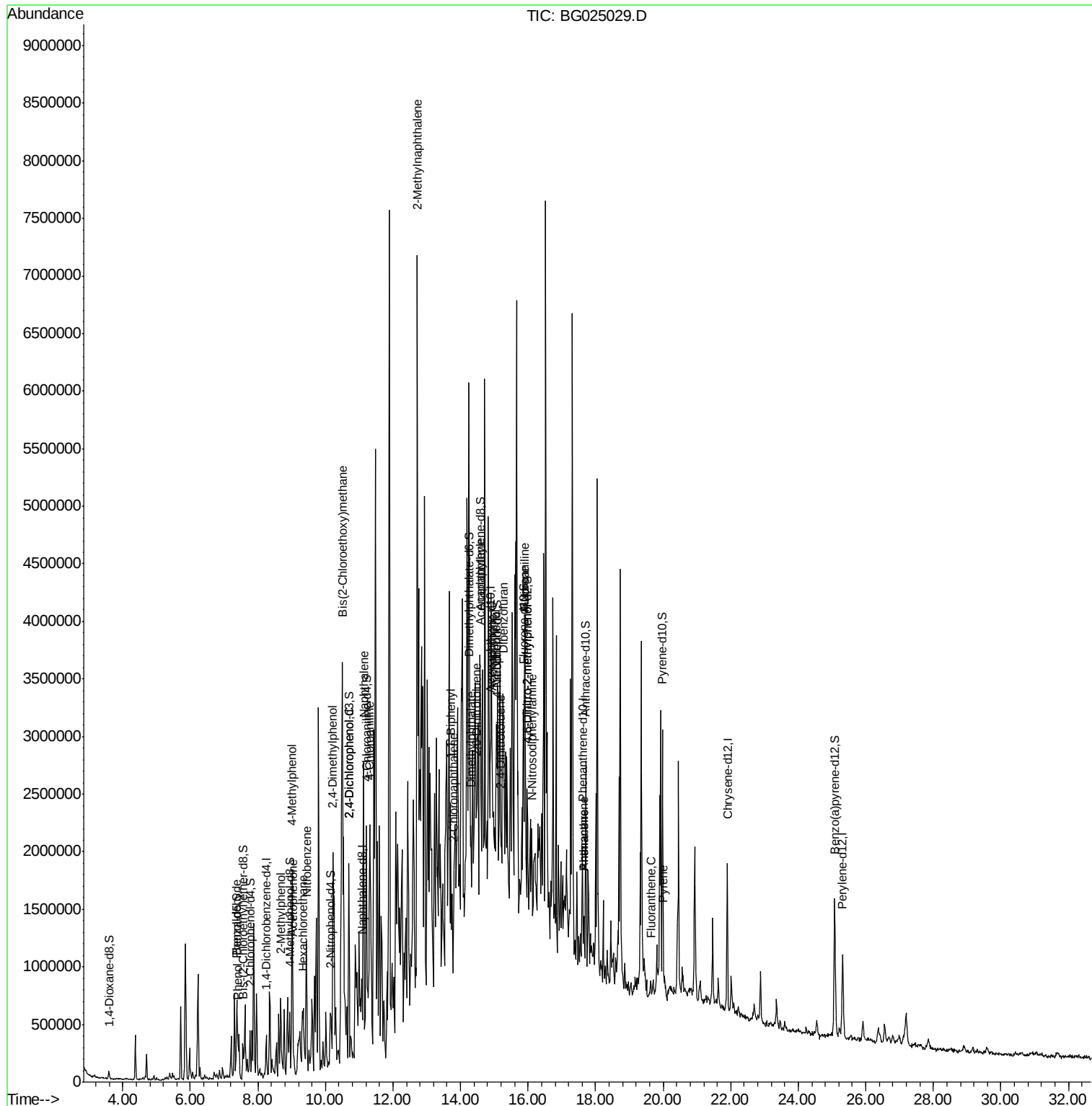
Quant Time: Dec 09 06:35:48 2016
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Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
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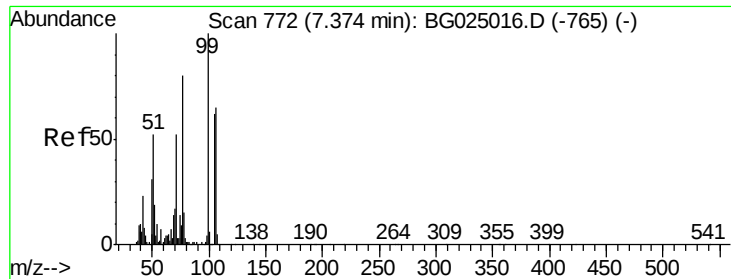
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) 4-Nitroaniline	15.91	138	16511	3.42	ng/ul#	19
63) 4,6-Dinitro-2-methylphenol	15.98	198	6323	1.50	ng/ul#	1
64) N-Nitrosodiphenylamine	16.12	169	105647	6.26	ng/ul#	69
69) Phenanthrene	17.65	178	307592	9.82	ng/ul	96
71) Anthracene	17.65	178	307592	9.56	ng/ul	95
74) Fluoranthene	19.64	202	64184	1.73	ng/ul#	89
77) Pyrene	20.01	202	73591	1.78	ng/ul#	93

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

```
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#4

Benzaldehyde

Concen: 7.20 ng/ul

RT: 7.37 min Scan# 771

Delta R.T. -0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

Instrument :

BNA_G

ClientSampleId :

DA802

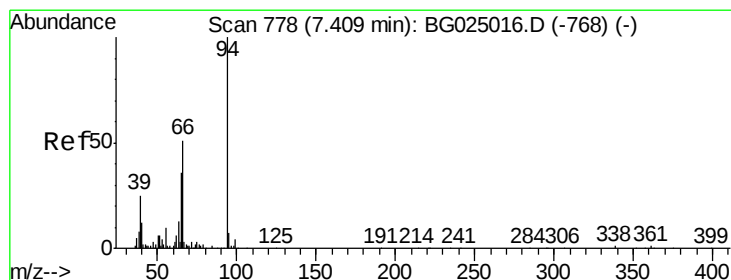
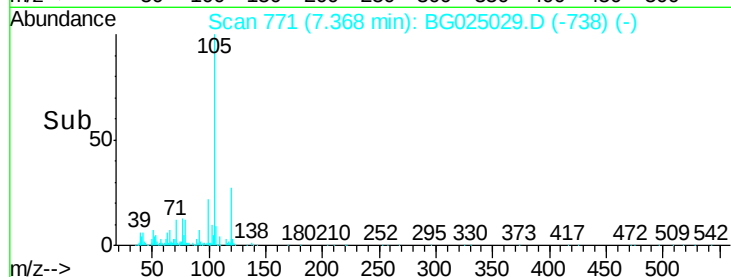
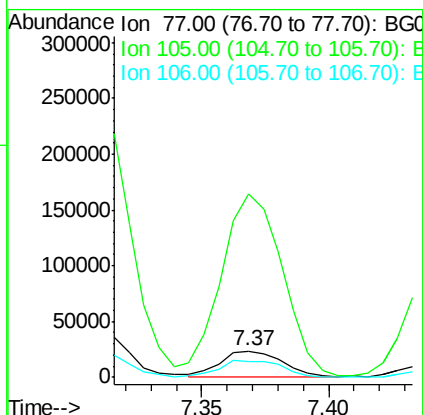
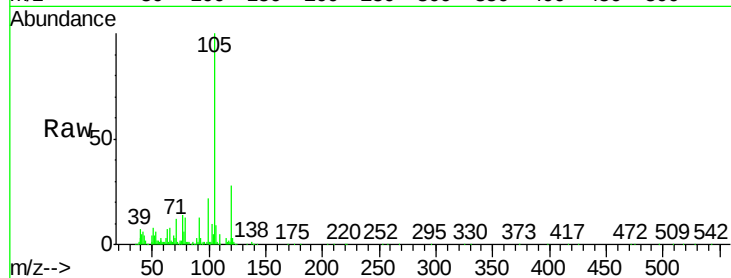
Tgt Ion: 77 Resp: 40608

Ion Ratio Lower Upper

77 100

105 699.6 62.0 93.0#

106 60.1 60.2 90.4#



#6

Phenol

Concen: 18.07 ng/ul

RT: 7.42 min Scan# 779

Delta R.T. 0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

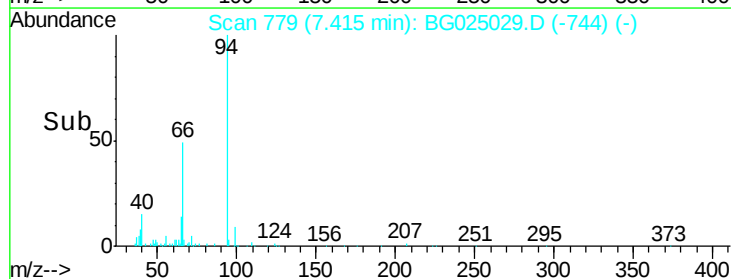
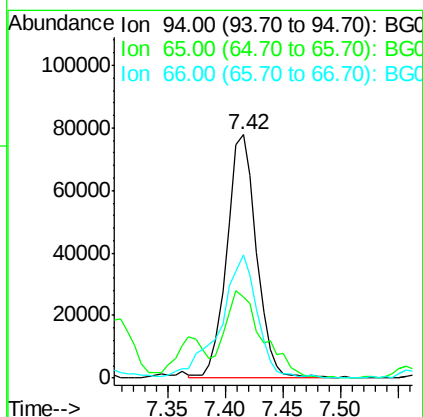
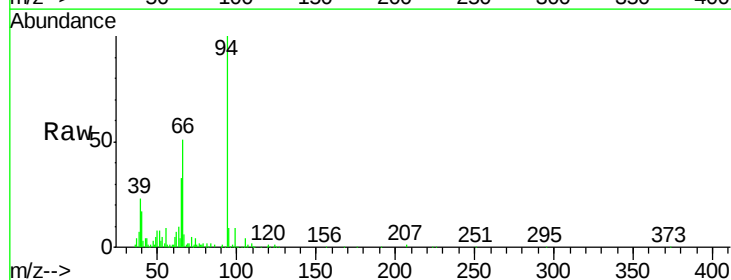
Tgt Ion: 94 Resp: 138913

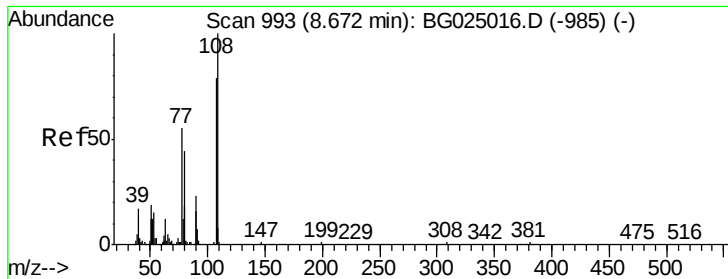
Ion Ratio Lower Upper

94 100

65 33.1 26.8 40.2

66 50.7 44.4 66.6

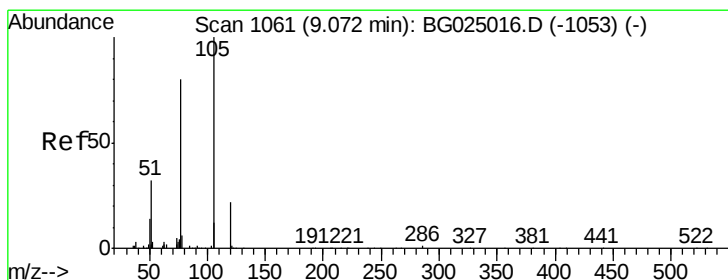
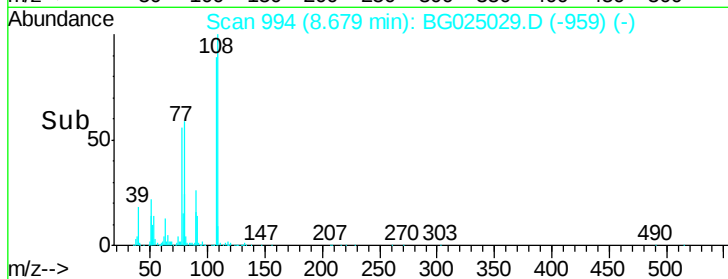
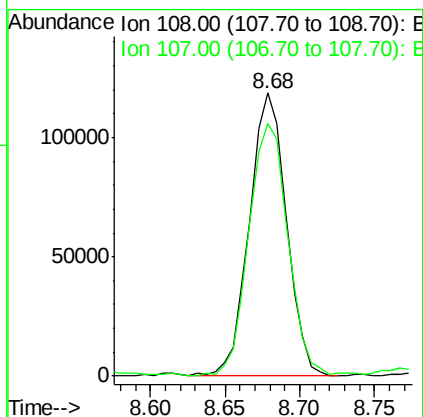
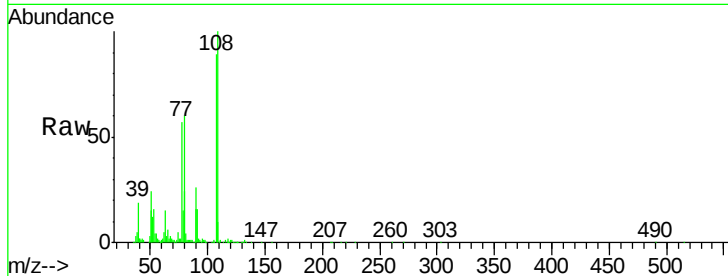




#11
2-Methylphenol
Concen: 35.93 ng/ul
RT: 8.68 min Scan# 994
Delta R.T. 0.01 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

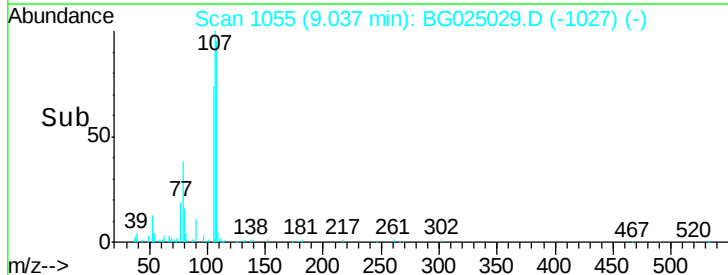
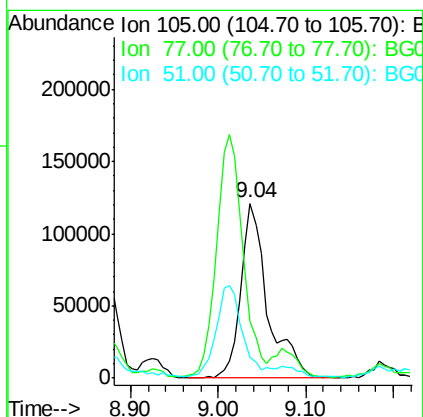
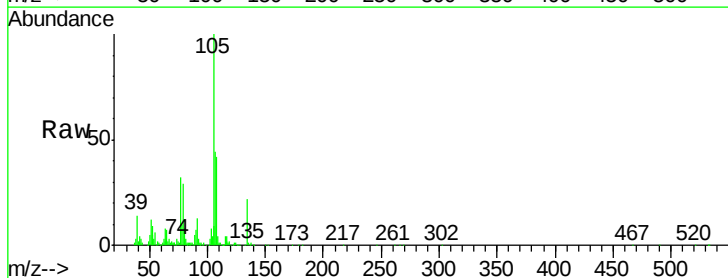
Instrument :
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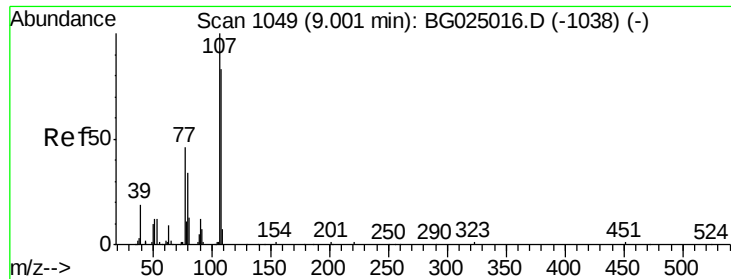
Tgt Ion:108 Resp: 203397
Ion Ratio Lower Upper
108 100
107 89.4 76.7 115.1



#14
Acetophenone
Concen: 26.43 ng/ul
RT: 9.04 min Scan# 1055
Delta R.T. -0.03 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

Tgt Ion:105 Resp: 251752
Ion Ratio Lower Upper
105 100
77 32.2 76.0 114.0#
51 12.2 34.8 52.2#

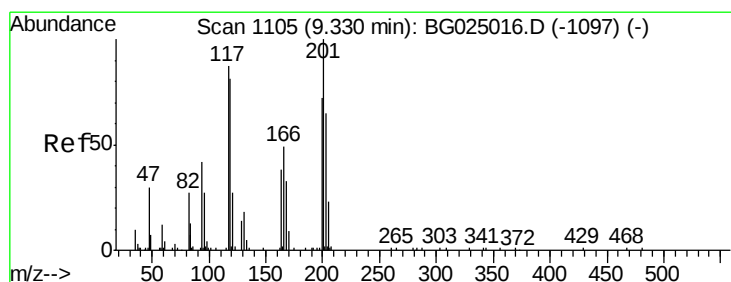
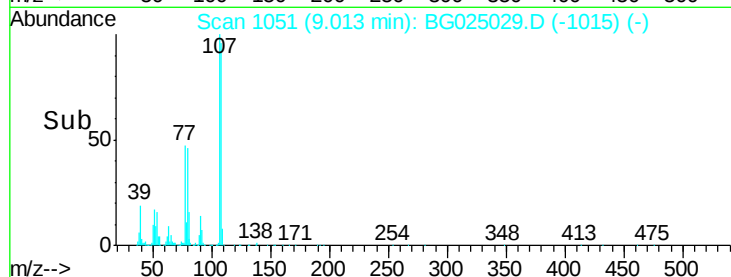
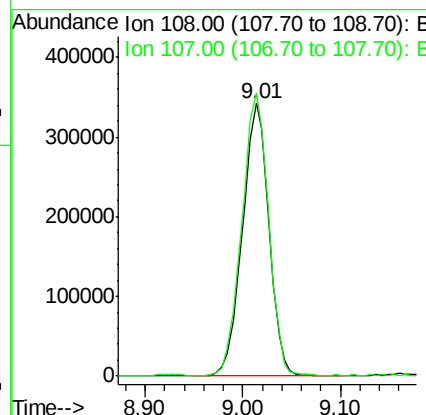
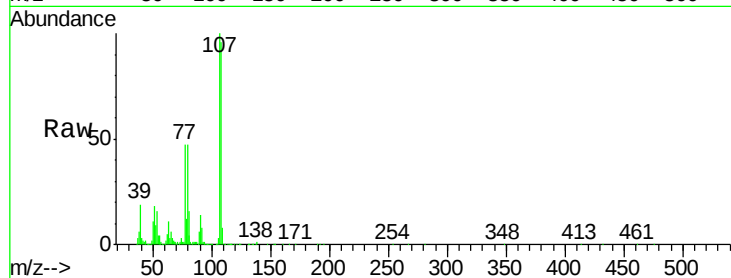




#16
4-Methylphenol
Concen: 102.21 ng/ul
RT: 9.01 min Scan# 1051
Delta R.T. 0.01 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

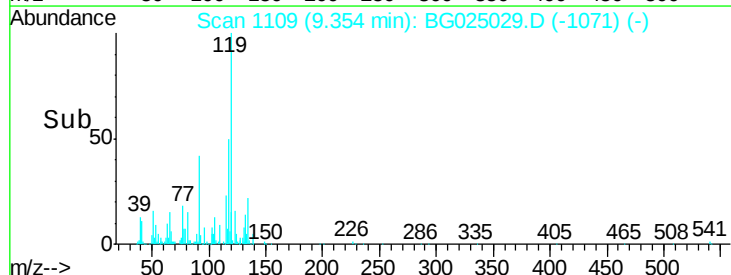
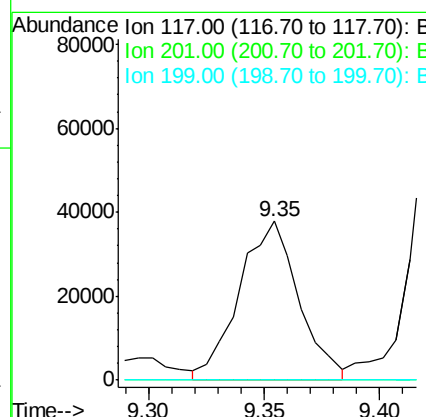
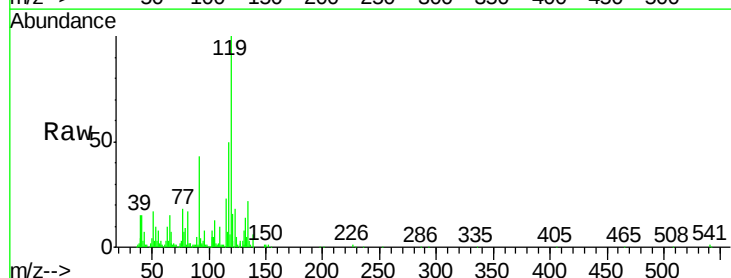
Instrument :
BNA_G
ClientSampleId :
DA802

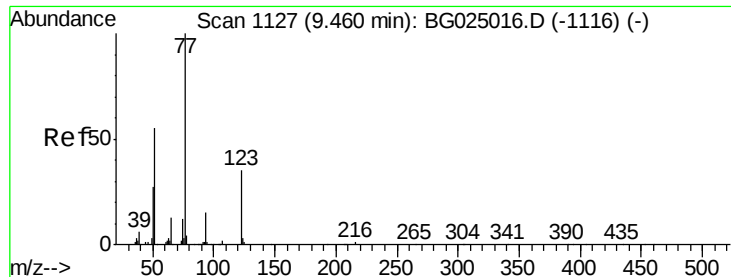
Tgt Ion:108 Resp: 643715
Ion Ratio Lower Upper
108 100
107 103.7 91.7 137.5



#17
Hexachloroethane
Concen: 28.85 ng/ul
RT: 9.35 min Scan# 1109
Delta R.T. 0.02 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

Tgt Ion:117 Resp: 67312
Ion Ratio Lower Upper
117 100
201 0.0 91.9 137.9#
199 0.0 64.3 96.5#

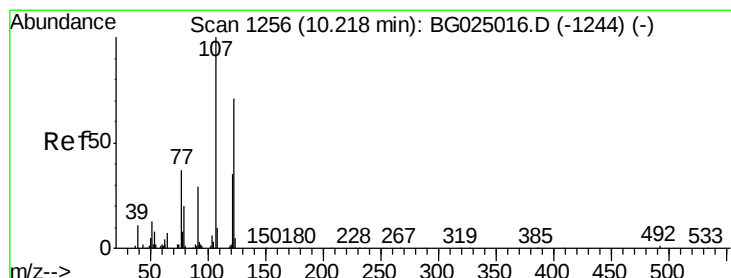
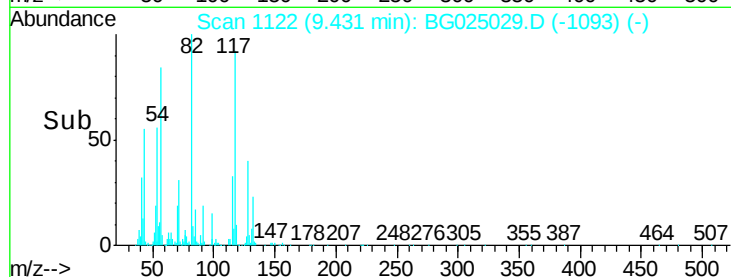
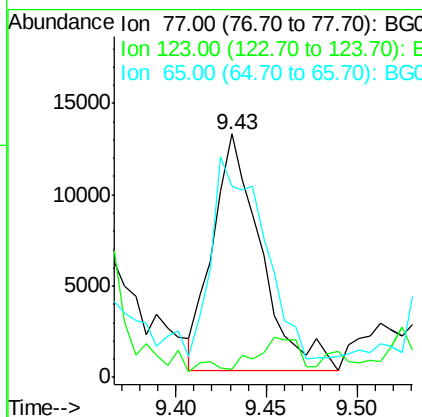
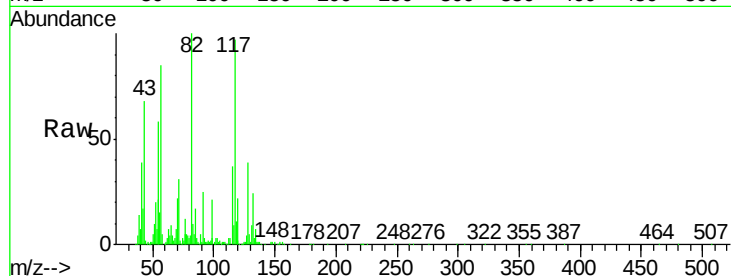




#20
 Nitrobenzene
 Concen: 2.93 ng/ul
 RT: 9.43 min Scan# 1122
 Delta R.T. -0.03 min
 Lab File: BG025029.D
 Acq: 9 Dec 2016 5:48

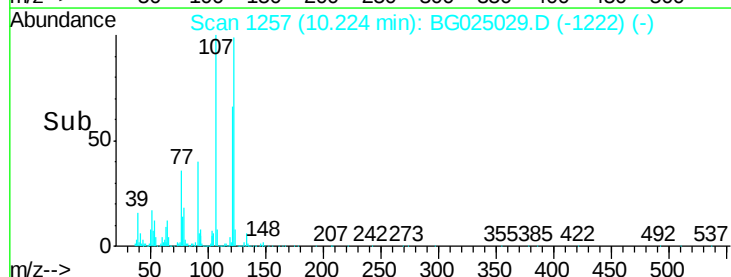
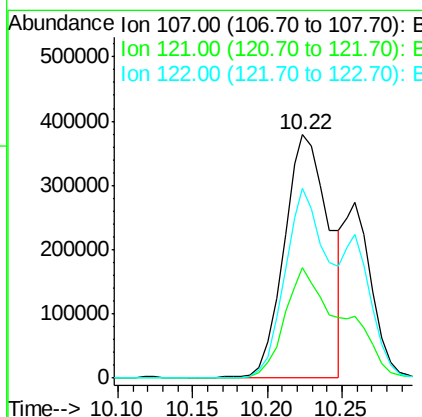
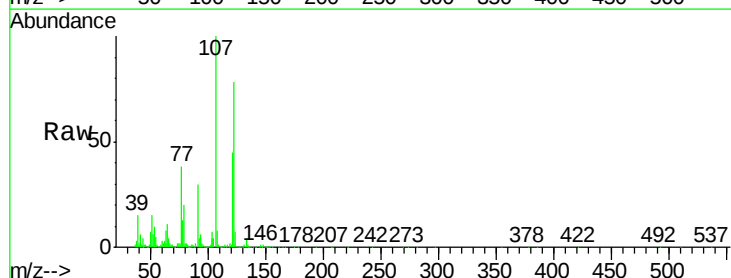
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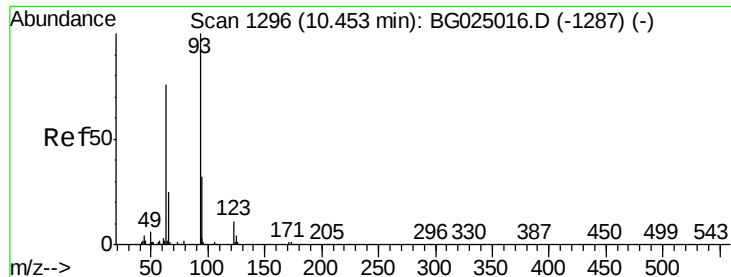
Tgt Ion: 77 Resp: 24042
 Ion Ratio Lower Upper
 77 100
 123 3.4 27.4 41.0#
 65 78.5 13.3 19.9#



#24
 2,4-Dimethylphenol
 Concen: 103.29 ng/ul
 RT: 10.22 min Scan# 1257
 Delta R.T. 0.01 min
 Lab File: BG025029.D
 Acq: 9 Dec 2016 5:48

Tgt Ion: 107 Resp: 796436
 Ion Ratio Lower Upper
 107 100
 121 45.4 32.3 48.5
 122 77.9 61.2 91.8





#25

Bis(2-Chloroethoxy)methane

Concen: 10.10 ng/ul

RT: 10.49 min Scan# 1303

Delta R.T. 0.04 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

Instrument :

BNA_G

ClientSampleId :

DA802

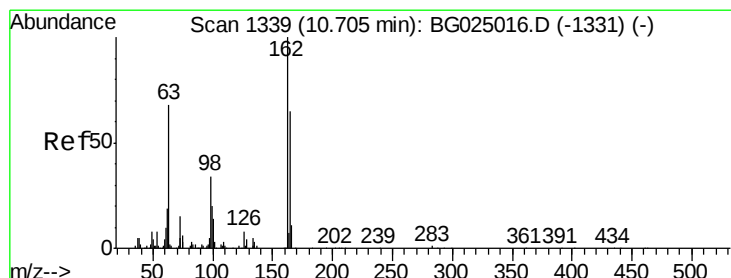
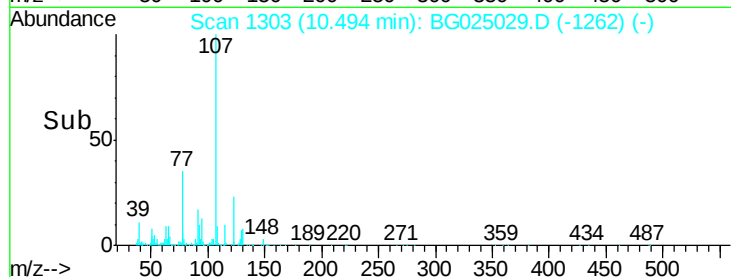
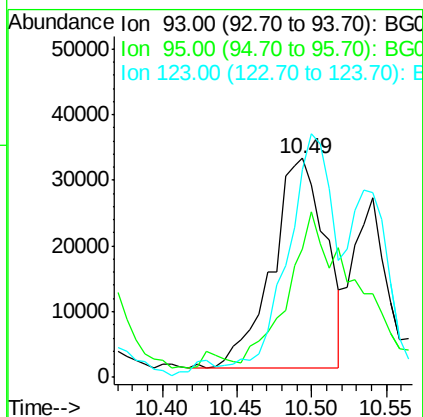
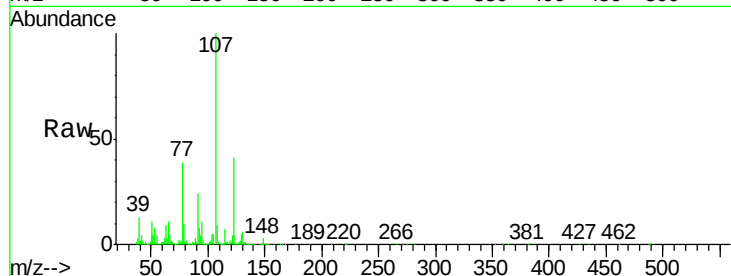
Tgt Ion: 93 Resp: 79839

Ion Ratio Lower Upper

93 100

95 58.8 23.4 35.0#

123 95.0 7.8 11.6#



#27

2,4-Dichlorophenol

Concen: 24.97 ng/ul

RT: 10.70 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

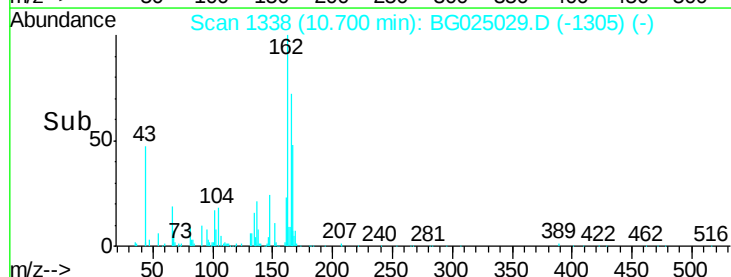
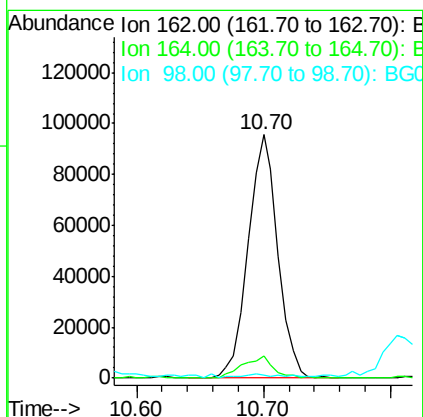
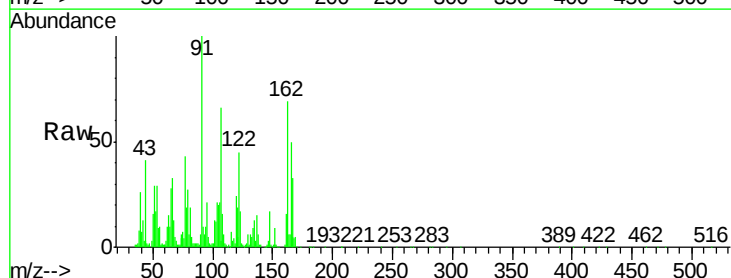
Tgt Ion: 162 Resp: 154981

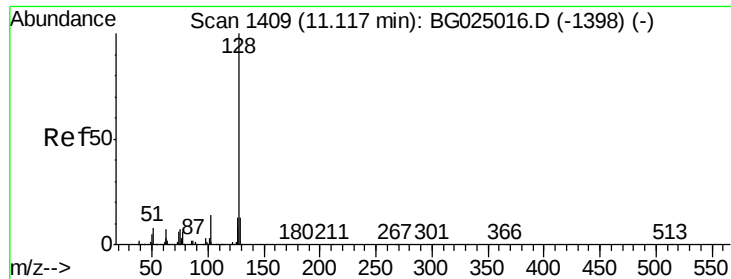
Ion Ratio Lower Upper

162 100

164 9.1 50.8 76.2#

98 1.4 32.1 48.1#

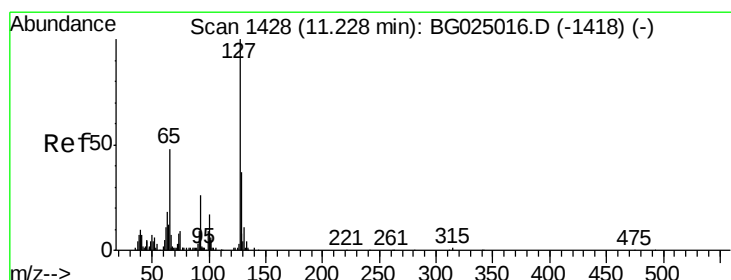
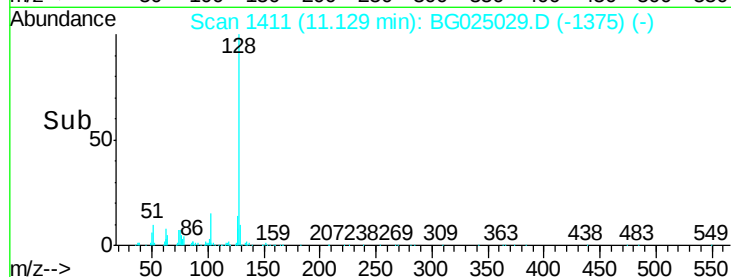
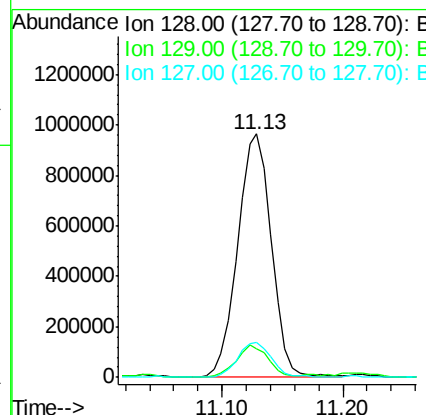
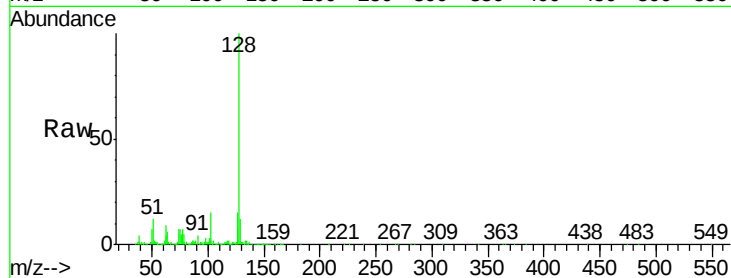




#28
Naphthalene
Concen: 107.07 ng/ul
RT: 11.13 min Scan# 1411
Delta R.T. 0.01 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

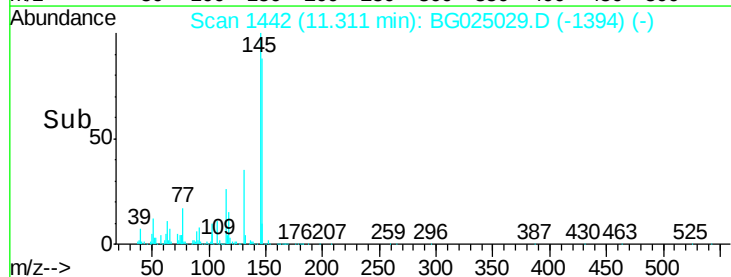
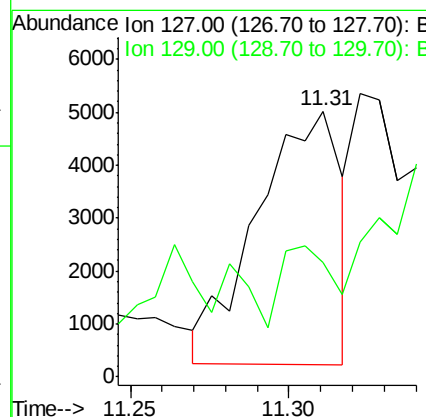
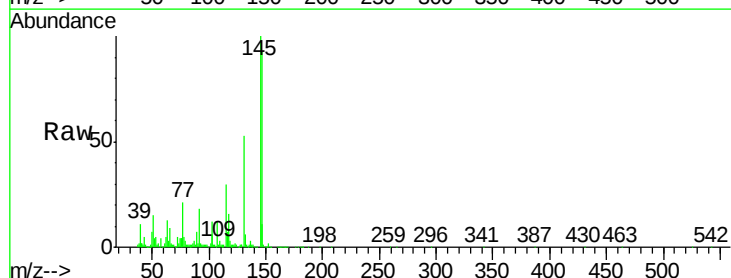
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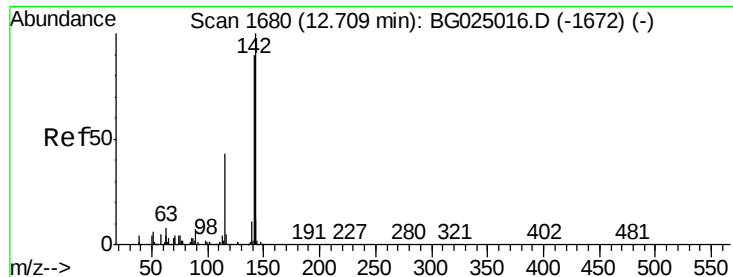
Tgt Ion:128 Resp: 1874070
Ion Ratio Lower Upper
128 100
129 11.7 9.4 14.2
127 14.5 10.3 15.5



#30
4-Chloroaniline
Concen: 1.37 ng/ul
RT: 11.31 min Scan# 1442
Delta R.T. 0.08 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

Tgt Ion:127 Resp: 8817
Ion Ratio Lower Upper
127 100
129 43.0 28.9 43.3





#34

2-Methylnaphthalene

Concen: 206.64 ng/ul

RT: 12.72 min Scan# 1682

Delta R.T. 0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

Instrument :

BNA_G

ClientSampleId :

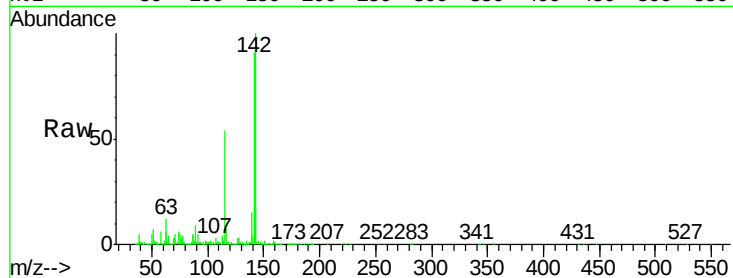
DA802

Tgt Ion:142 Resp: 2854264

Ion Ratio Lower Upper

142 100

141 91.3 68.6 102.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

1500000

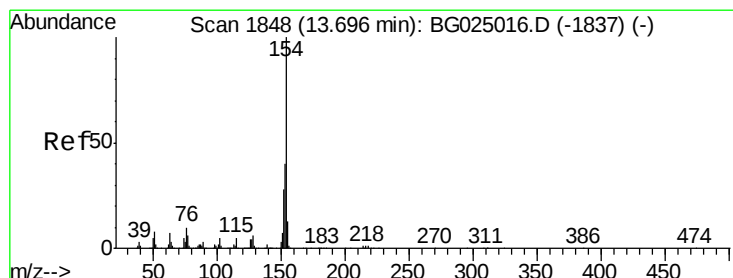
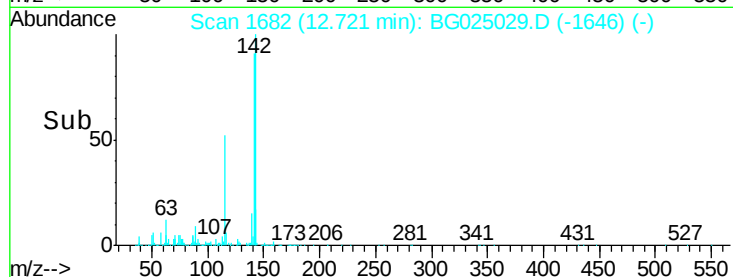
1000000

500000

0

12.60 12.70 12.80

Time-->



#40

1,1'-Biphenyl

Concen: 36.06 ng/ul

RT: 13.71 min Scan# 1850

Delta R.T. 0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

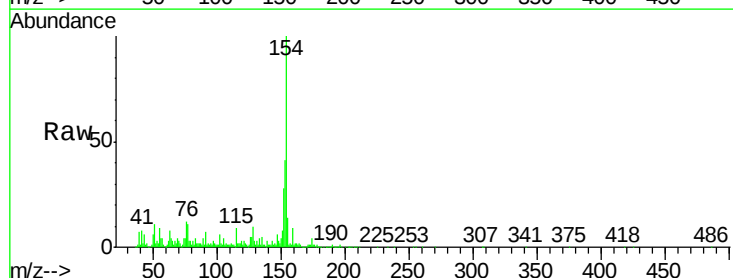
Tgt Ion:154 Resp: 695114

Ion Ratio Lower Upper

154 100

153 41.0 32.2 48.2

76 12.2 9.6 14.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BG

600000

500000

400000

300000

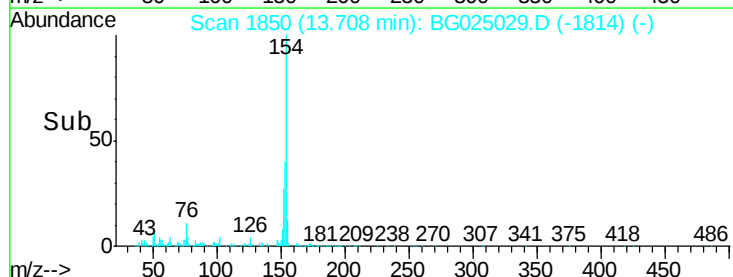
200000

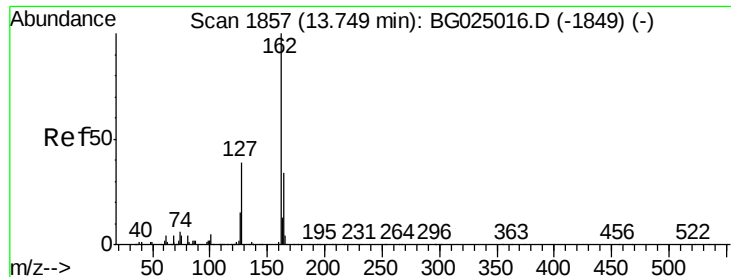
100000

0

13.60 13.70

Time-->

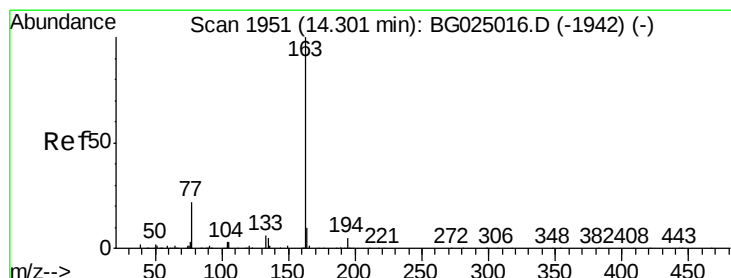
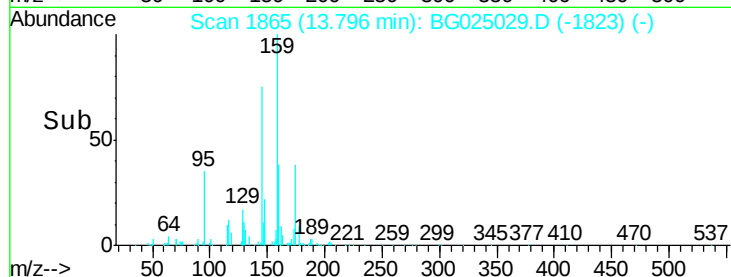
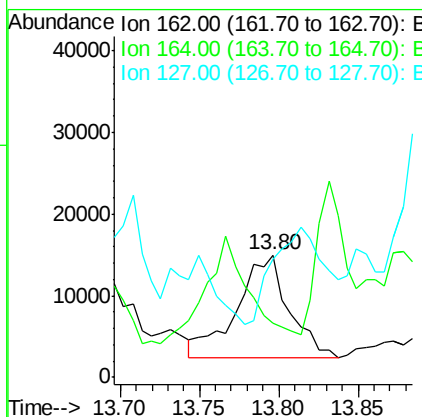
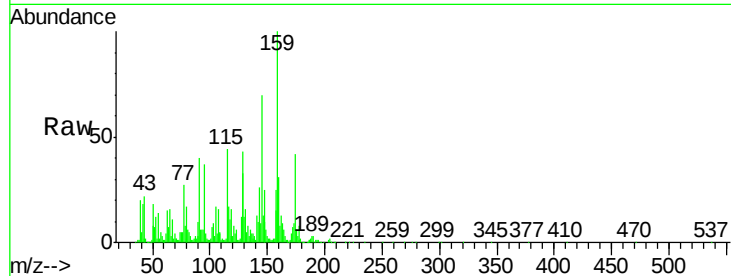




#41
2-Chloronaphthalene
Concen: 1.86 ng/ul
RT: 13.80 min Scan# 1865
Delta R.T. 0.05 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

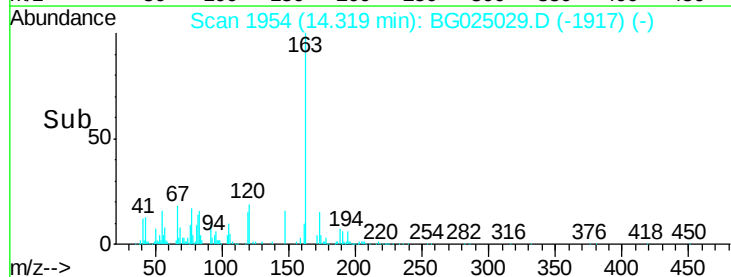
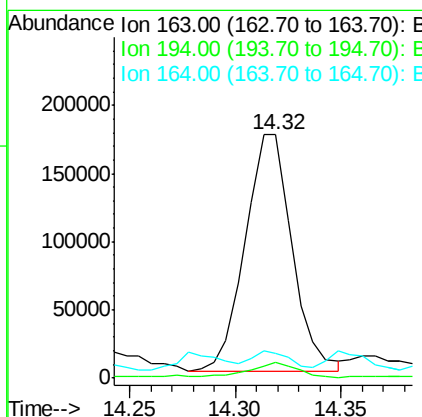
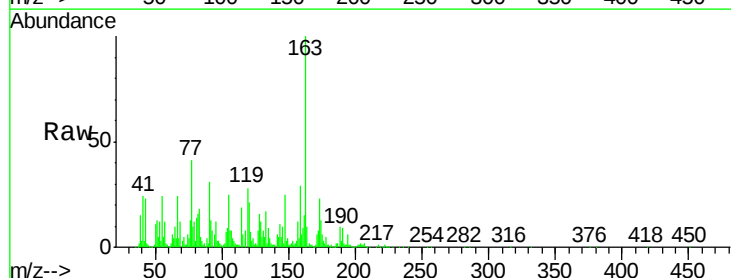
Instrument :
BNA_G
ClientSampled :
DA802

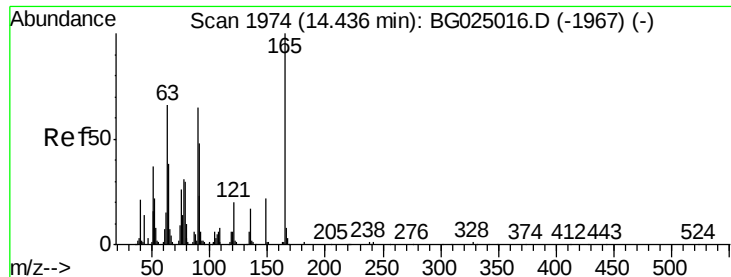
Tgt Ion:162 Resp: 28524
Ion Ratio Lower Upper
162 100
164 44.5 25.0 37.6#
127 96.0 30.7 46.1#



#44
Dimethylphthalate
Concen: 12.46 ng/ul
RT: 14.32 min Scan# 1954
Delta R.T. 0.02 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

Tgt Ion:163 Resp: 267827
Ion Ratio Lower Upper
163 100
194 6.5 3.4 5.0#
164 9.9 9.0 13.4

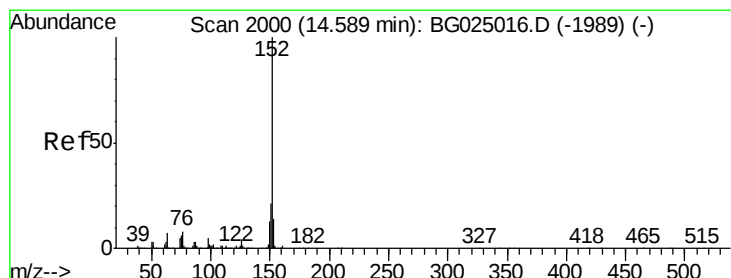
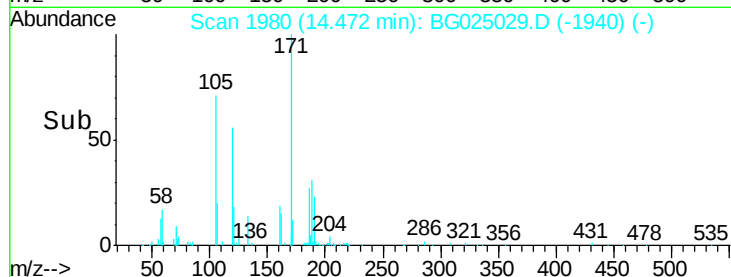
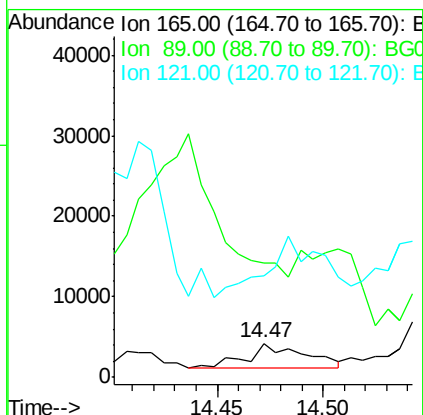
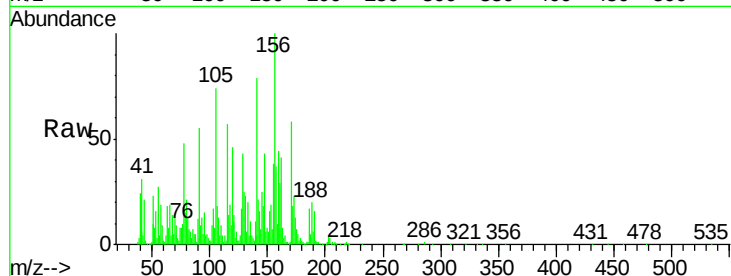




#45
2,6-Dinitrotoluene
Concen: 1.32 ng/ul
RT: 14.47 min Scan# 1980
Delta R.T. 0.04 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

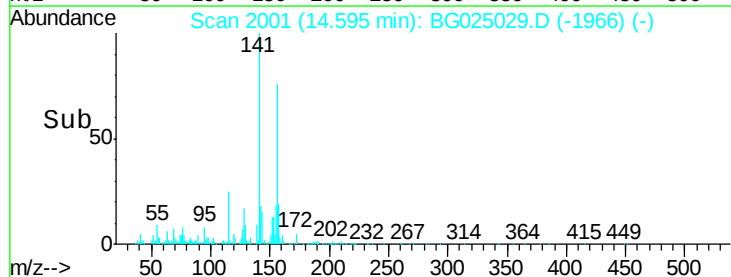
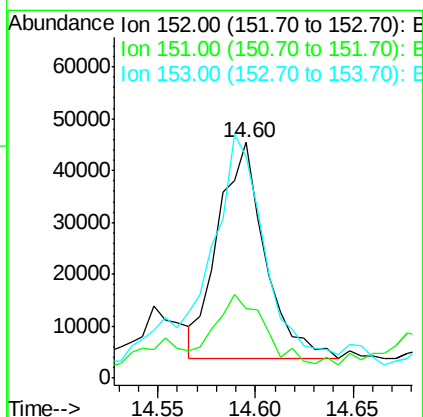
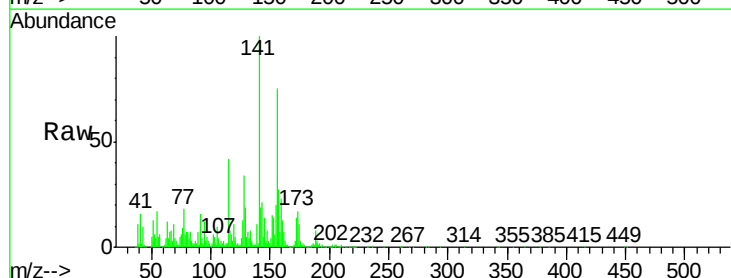
Instrument :
BNA_G
ClientSampleId :
DA802

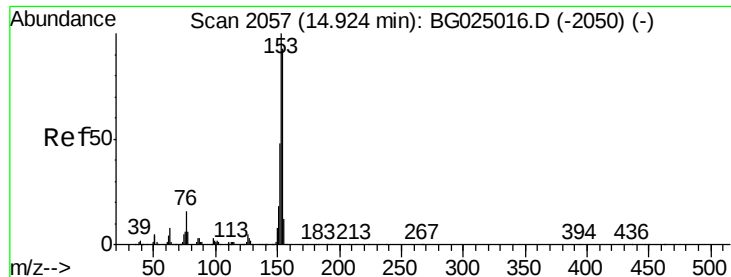
Tgt Ion:165 Resp: 6100
Ion Ratio Lower Upper
165 100
89 332.5 52.9 79.3#
121 297.0 22.2 33.4#



#47
Acenaphthylene
Concen: 2.99 ng/ul
RT: 14.60 min Scan# 2001
Delta R.T. 0.01 min
Lab File: BG025029.D
Acq: 9 Dec 2016 5:48

Tgt Ion:152 Resp: 69600
Ion Ratio Lower Upper
152 100
151 29.7 16.7 25.1#
153 94.0 11.4 17.2#





#49

Acenaphthene

Concen: 11.75 ng/ul

RT: 14.94 min Scan# 2059

Delta R.T. 0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

Instrument :

BNA_G

ClientSampleId :

DA802

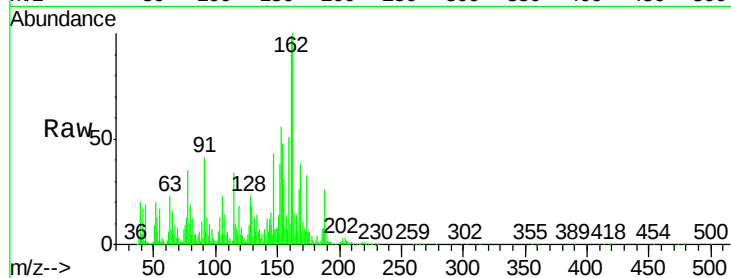
Tgt Ion:153 Resp: 187508

Ion Ratio Lower Upper

153 100

152 67.7 36.5 54.7#

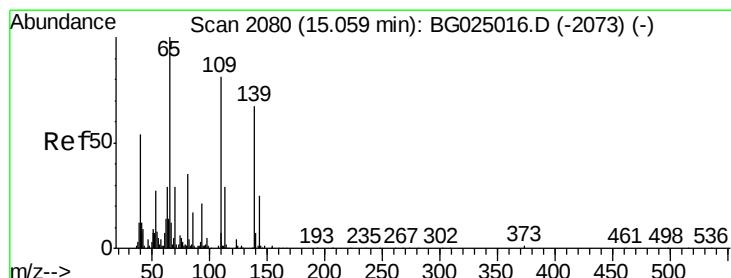
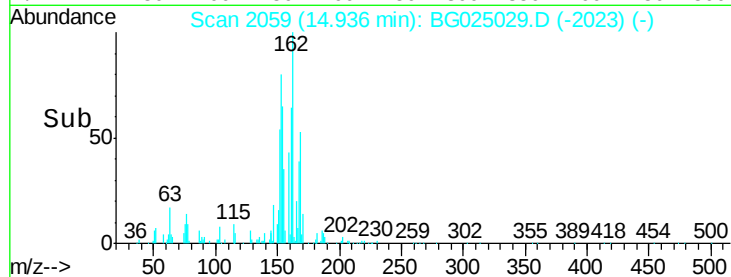
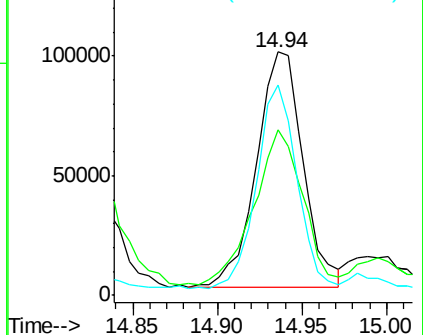
154 86.4 72.3 108.5



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#52

4-Nitrophenol

Concen: 1.73 ng/ul

RT: 15.07 min Scan# 2081

Delta R.T. 0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

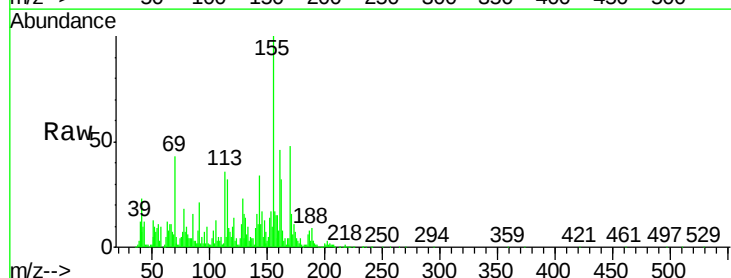
Tgt Ion:109 Resp: 7835

Ion Ratio Lower Upper

109 100

139 168.0 62.6 93.8#

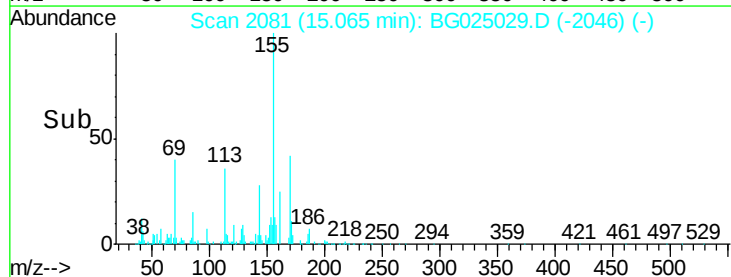
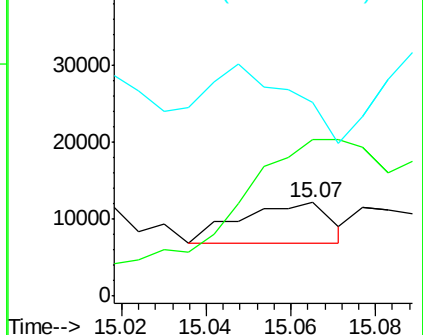
65 207.5 90.4 135.6#

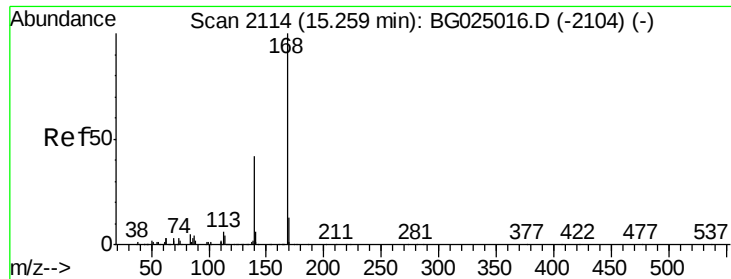


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BGC





#53

Dibenzenofuran

Concen: 18.91 ng/ul

RT: 15.26 min Scan# 2115

Delta R.T. 0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

Instrument :

BNA_G

ClientSampleId :

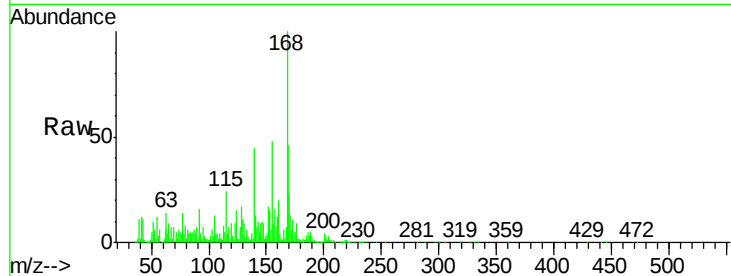
DA802

Tgt Ion:168 Resp: 477084

Ion Ratio Lower Upper

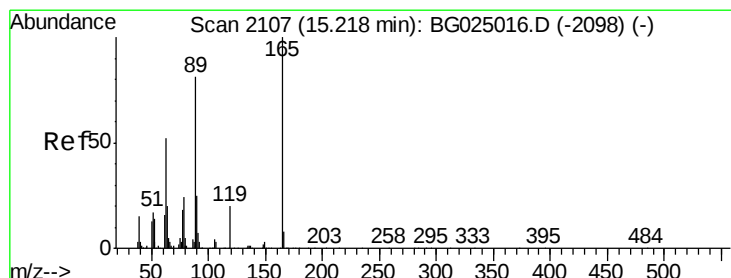
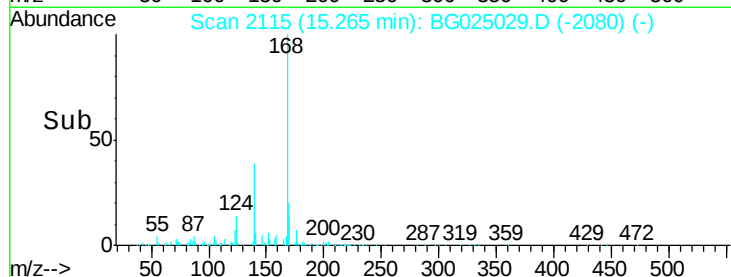
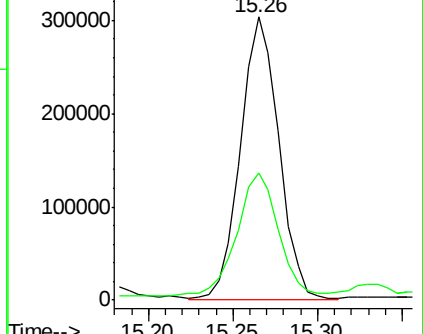
168 100

139 44.8 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#54

2,4-Dinitrotoluene

Concen: 1.32 ng/ul

RT: 15.21 min Scan# 2105

Delta R.T. -0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

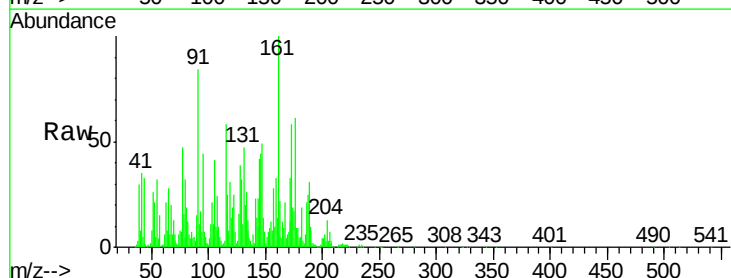
Tgt Ion:165 Resp: 9207

Ion Ratio Lower Upper

165 100

63 170.2 46.8 70.2#

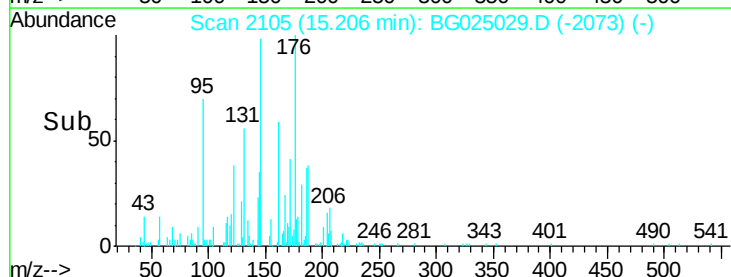
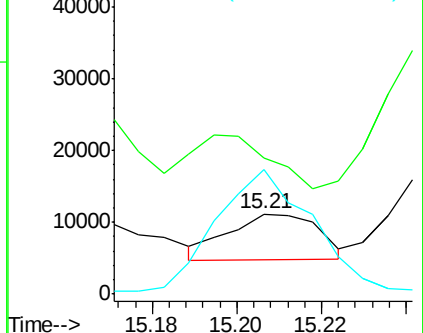
182 155.3 1.8 2.6#

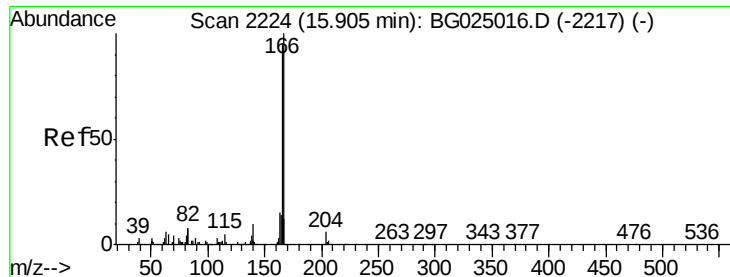


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG0

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 24.64 ng/ul

RT: 15.91 min Scan# 2225

Delta R.T. 0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

Instrument :

BNA_G

ClientSampleId :

DA802

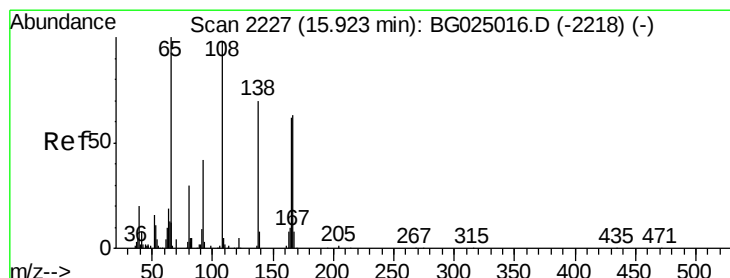
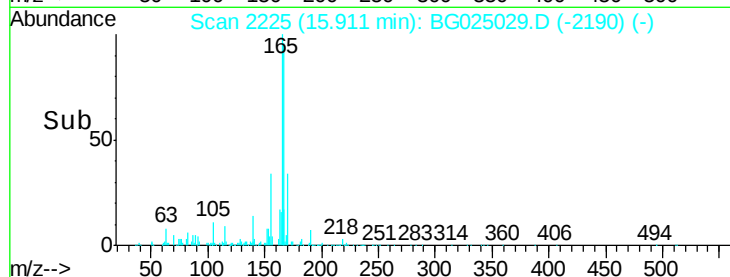
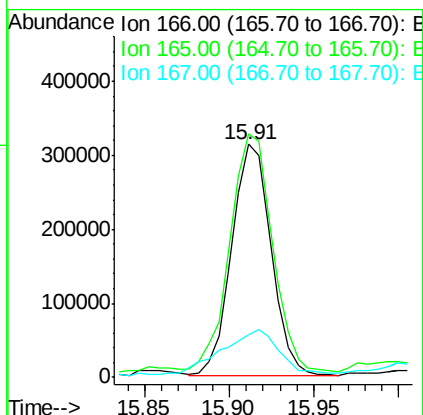
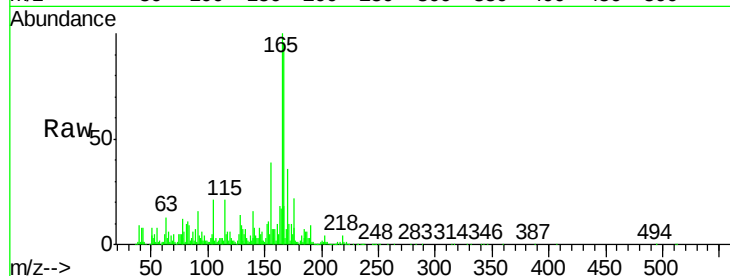
Tgt Ion:166 Resp: 506180

Ion Ratio Lower Upper

166 100

165 104.5 79.7 119.5

167 18.4 11.4 17.2#



#60

4-Nitroaniline

Concen: 3.42 ng/ul

RT: 15.91 min Scan# 2225

Delta R.T. -0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

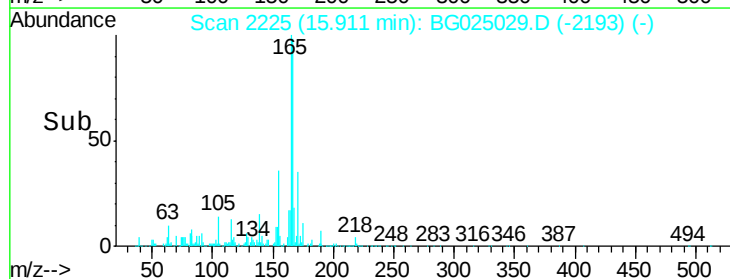
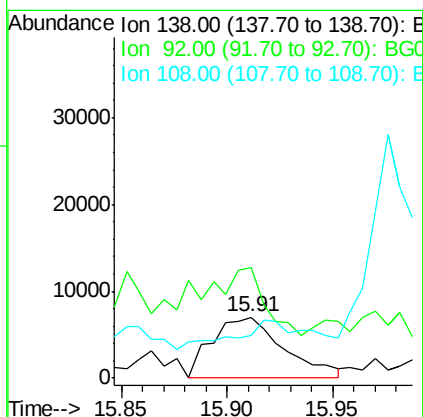
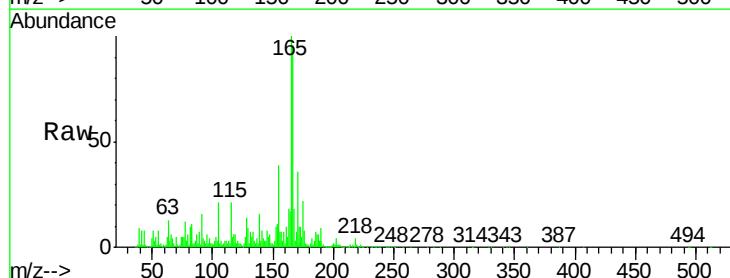
Tgt Ion:138 Resp: 16511

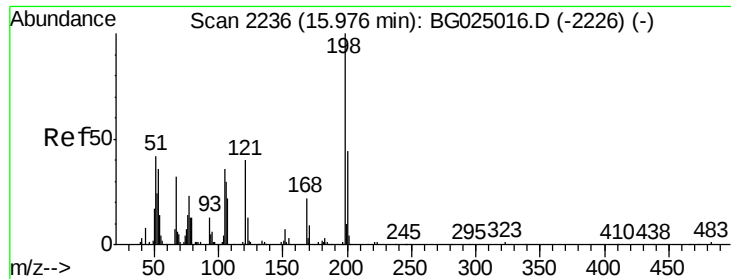
Ion Ratio Lower Upper

138 100

92 181.4 56.9 85.3#

108 69.0 104.9 157.3#

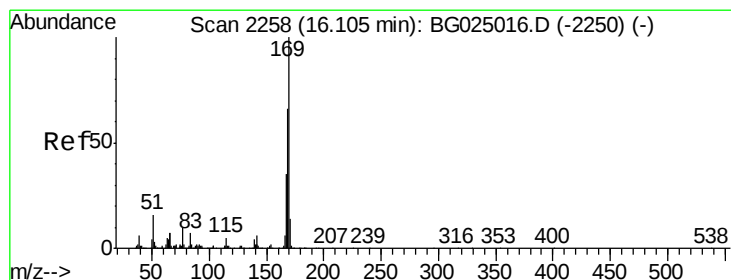
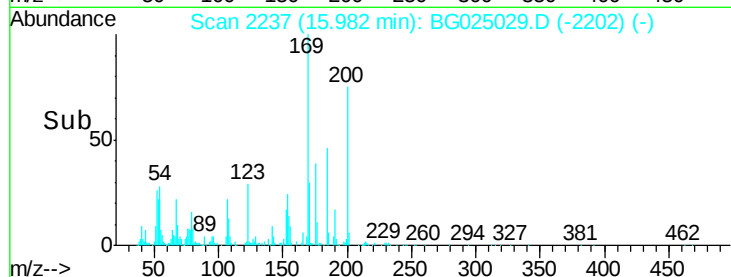
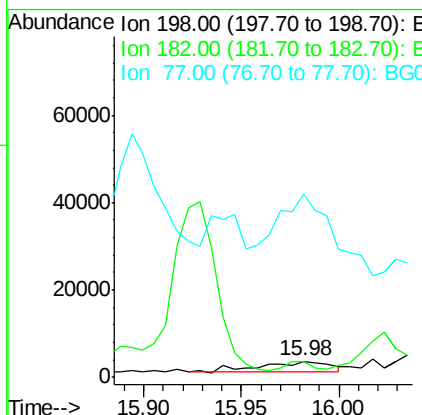
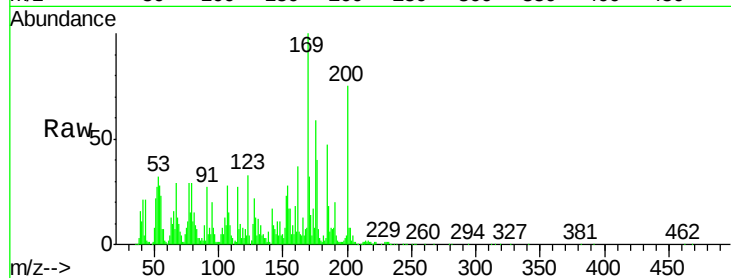




#63
 4,6-Dinitro-2-methylphenol
 Concen: 1.50 ng/ul
 RT: 15.98 min Scan# 2237
 Delta R.T. 0.01 min
 Lab File: BG025029.D
 Acq: 9 Dec 2016 5:48

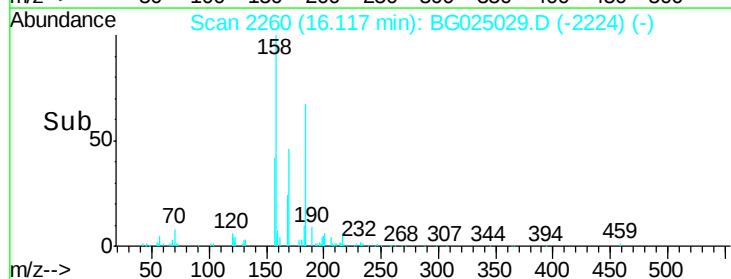
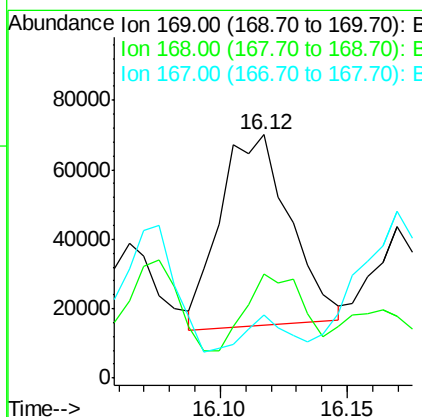
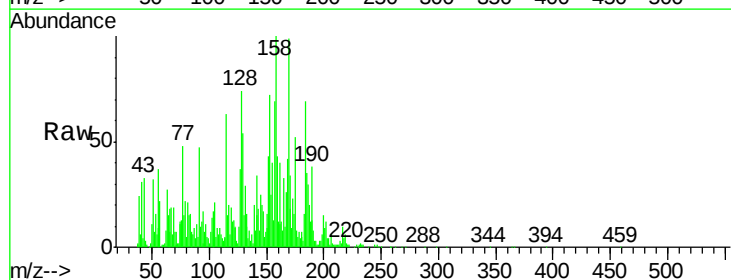
Instrument :
 BNA_G
 ClientSampleId :
 DA802

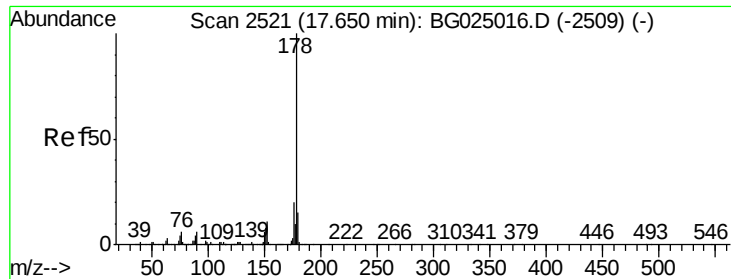
Tgt Ion:198 Resp: 6323
 Ion Ratio Lower Upper
 198 100
 182 94.0 5.8 6.4#
 77 1136.5 22.1 33.9#



#64
 N-Nitrosodiphenylamine
 Concen: 6.26 ng/ul
 RT: 16.12 min Scan# 2260
 Delta R.T. 0.01 min
 Lab File: BG025029.D
 Acq: 9 Dec 2016 5:48

Tgt Ion:169 Resp: 105647
 Ion Ratio Lower Upper
 169 100
 168 42.6 59.1 88.7#
 167 26.0 29.7 44.5#





#69

Phenanthrene

Concen: 9.82 ng/ul

RT: 17.65 min Scan# 2521

Delta R.T. 0.00 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

Instrument :

BNA_G

ClientSampleId :

DA802

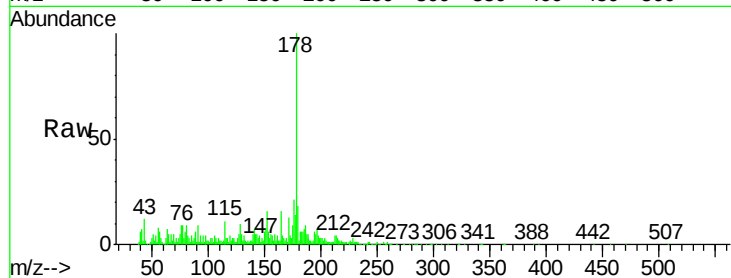
Tgt Ion:178 Resp: 307592

Ion Ratio Lower Upper

178 100

179 18.5 12.4 18.6

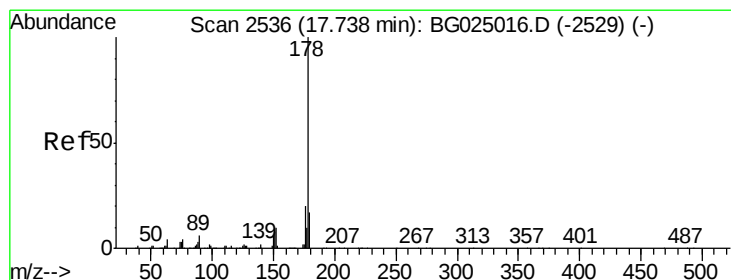
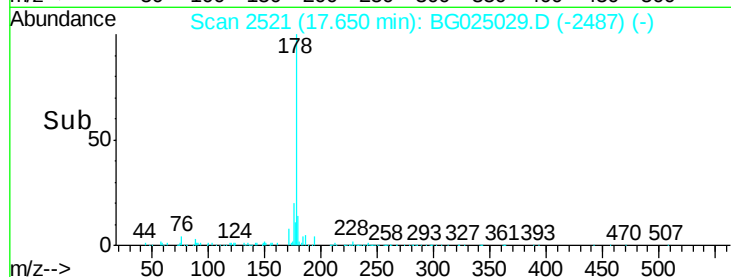
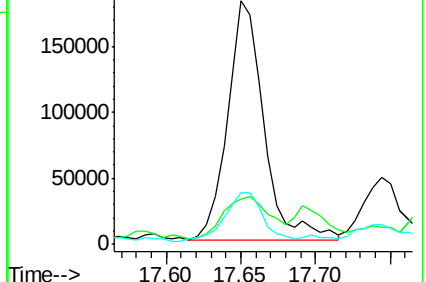
176 21.4 16.5 24.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 9.56 ng/ul

RT: 17.65 min Scan# 2521

Delta R.T. -0.09 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

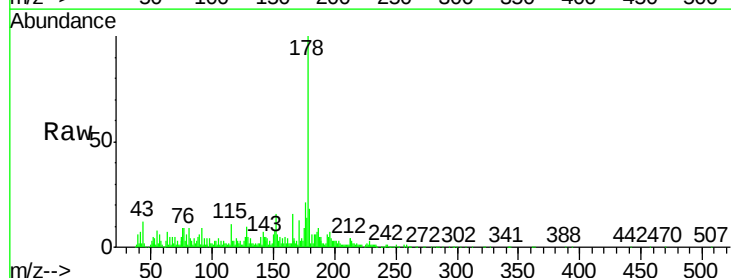
Tgt Ion:178 Resp: 307592

Ion Ratio Lower Upper

178 100

179 18.5 12.6 19.0

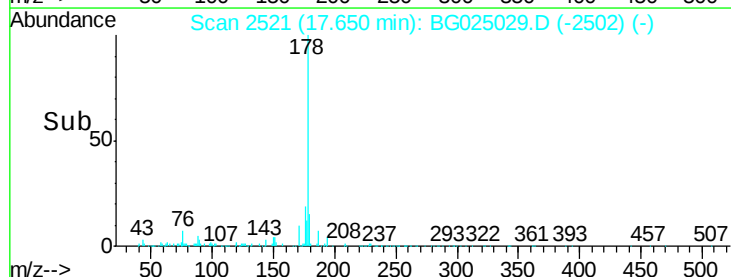
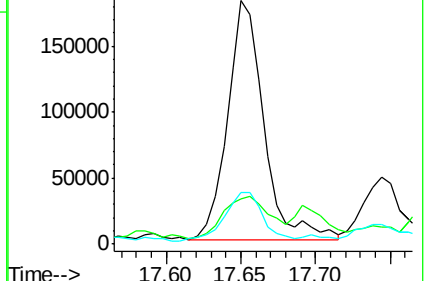
176 21.4 15.9 23.9

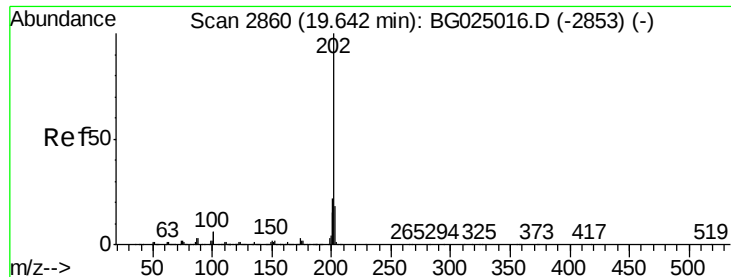


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Fluoranthene

Concen: 1.73 ng/ul

RT: 19.64 min Scan# 2860

Delta R.T. 0.00 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

Instrument :

BNA_G

ClientSampleId :

DA802

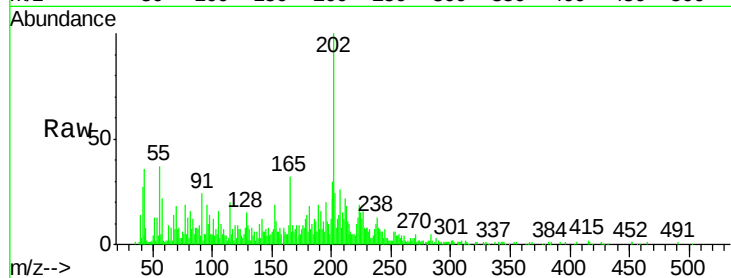
Tgt Ion:202 Resp: 64184

Ion Ratio Lower Upper

202 100

101 12.3 6.2 9.2#

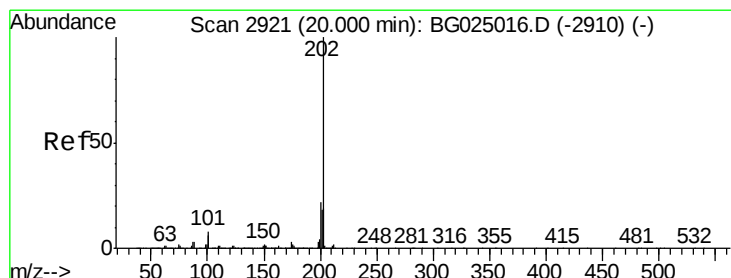
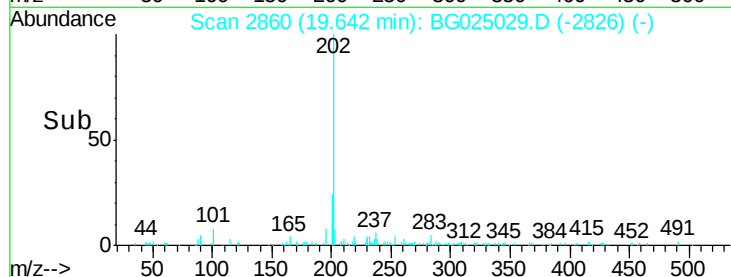
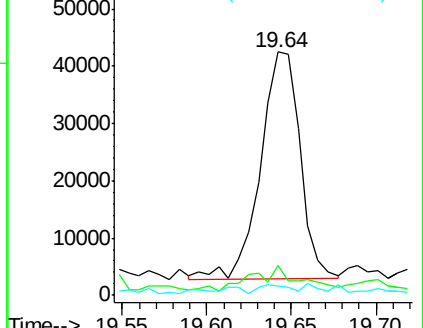
100 3.8 5.2 7.8#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 1.78 ng/ul

RT: 20.01 min Scan# 2922

Delta R.T. 0.01 min

Lab File: BG025029.D

Acq: 9 Dec 2016 5:48

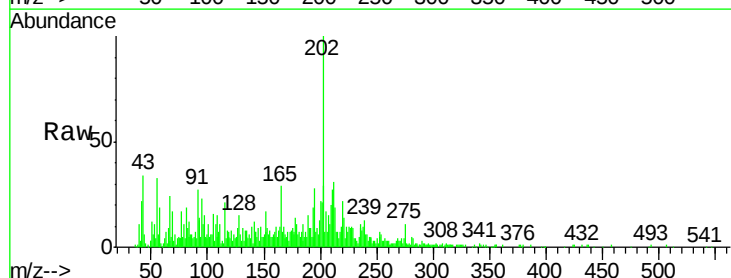
Tgt Ion:202 Resp: 73591

Ion Ratio Lower Upper

202 100

101 11.0 6.9 10.3#

100 6.0 6.6 10.0#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

