

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122615\
 Data File : BG020558.D
 Acq On : 27 Dec 2015 16:36
 Operator : UM/SJ
 Sample : G4846-22MSD
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N67MSD

Quant Time: Dec 28 02:45:23 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG122415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 28 02:38:20 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	17169	20.00	ng/ul	0.00
18) Naphthalene-d8	10.90	136	75230	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.71	164	54139	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.46	188	143323	20.00	ng/ul	0.00
78) Chrysene-d12	21.73	240	175614	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	165111	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.45	96	219	0.70	ng/uL	0.00
5) Phenol-d5	7.23	99	8885	6.45	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.40	67	15560	19.06	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	18043	17.07	ng/ul	0.00
13) 4-Methylphenol-d8	8.78	113	15186	13.10	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	11582	19.64	ng/ul	0.00
22) 2-Nitrophenol-d4	9.97	143	13252	19.77	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.52	165	23974	18.48	ng/ul	0.00
29) 4-Chloroaniline-d4	0.00	131	0	0.00	ng/ul	0.00
44) Dimethylphthalate-d6	14.11	166	97007	21.74	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	101900	19.71	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	4169	5.60	ng/ul	0.00
58) Fluorene-d10	15.70	176	87177	21.60	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.82	200	14374	15.13	ng/ul	0.00
71) Anthracene-d10	17.56	188	146761	21.86	ng/ul	0.00
79) Pyrene-d10	19.84	212	176869	23.26	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	176715	21.17	ng/ul	0.00

Target Compounds

						Qvalue
6) Phenol	7.26	94	10849	7.56	ng/ul	97
10) 2-Chlorophenol	7.64	128	17787	16.12	ng/ul	94
15) N-Nitroso-di-n-propylamine	8.88	70	20118	21.43	ng/ul	98
28) Naphthalene	10.95	128	712037	178.05	ng/ul	97
30) 4-Chloroaniline	10.95	127	99274	66.42	ng/ul#	16
33) 4-Chloro-3-methylphenol	12.17	107	26534	19.03	ng/ul	89
34) 2-Methylnaphthalene	12.54	142	85535	28.91	ng/ul	98
35) 1-Methylnaphthalene	12.76	142	49472	17.60	ng/ul#	98
41) 1,1'-Biphenyl	13.54	154	29193	6.99	ng/ul	93
45) Dimethylphthalate	14.16	163	20393	4.50	ng/ul	98
48) Acenaphthylene	14.44	152	15922	2.93	ng/ul	97
50) Acenaphthene	14.78	153	209501	57.02	ng/ul	98
53) 4-Nitrophenol	14.93	109	4032	5.99	ng/ul	95
54) Dibenzofuran	15.11	168	117517	21.50	ng/ul	97
55) 2,4-Dinitrotoluene	15.08	165	28398	20.59	ng/ul	90
59) Fluorene	15.76	166	91507	20.66	ng/ul	99
61) 4-Nitroaniline	15.76	138	1071	1.12	ng/ul#	10
69) Pentachlorophenol	17.11	266	14792	13.72	ng/ul	96
70) Phenanthrene	17.50	178	186502	23.39	ng/ul	98
72) Anthracene	17.50	178	186502	22.87	ng/ul	99
75) Carbazole	17.86	167	58263	8.48	ng/ul	99
77) Fluoranthene	19.51	202	28278	2.82	ng/ul#	98
80) Pyrene	19.87	202	233756	23.54	ng/ul	99

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Instrument :
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Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 28 02:38:20 2015
Response via : Initial Calibration

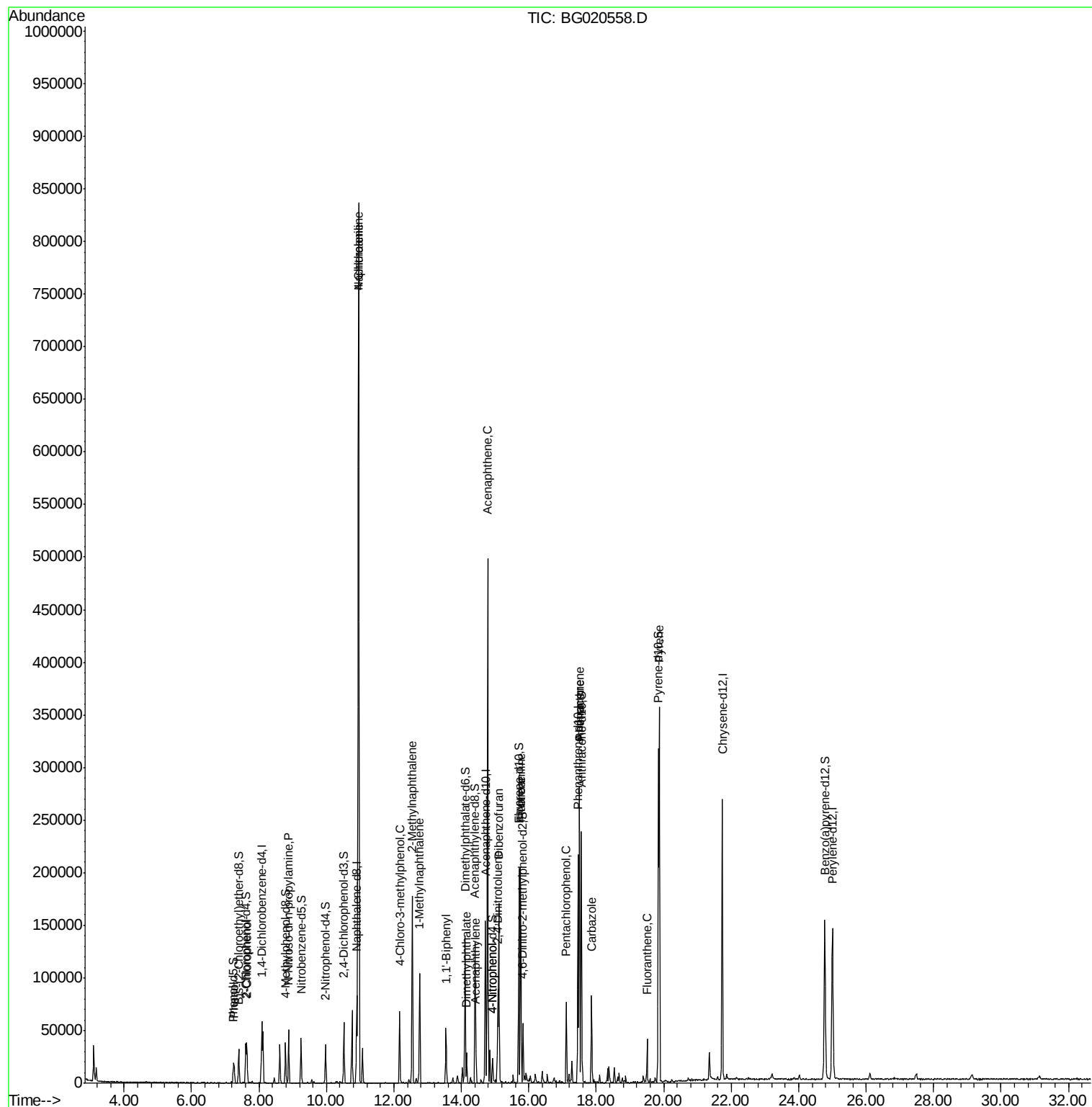
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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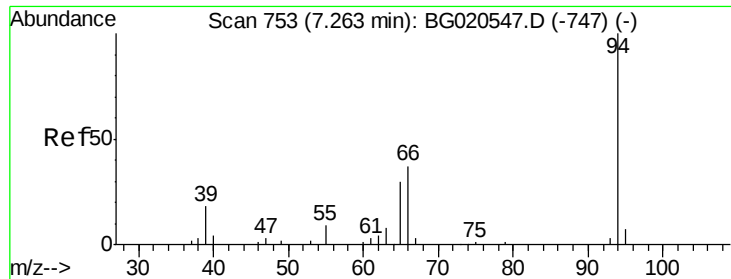
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 7.56 ng/ul

RT: 7.26 min Scan# 753

Delta R.T. -0.00 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

Instrument :

BNA_G

ClientSampleId :

D9N67MSD

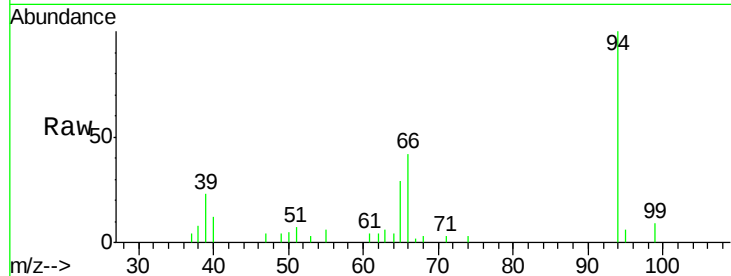
Tgt Ion: 94 Resp: 10849

Ion Ratio Lower Upper

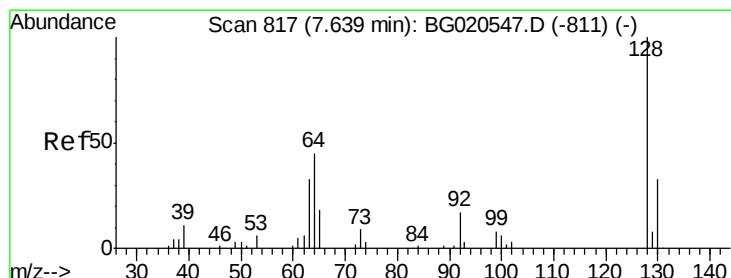
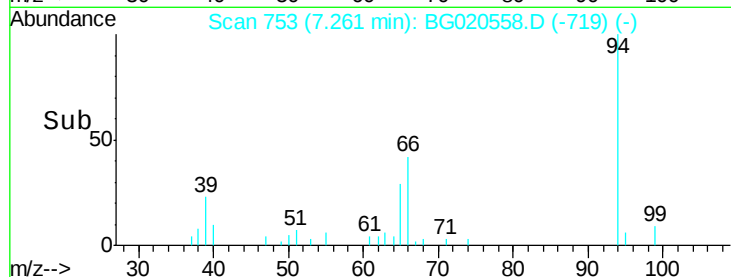
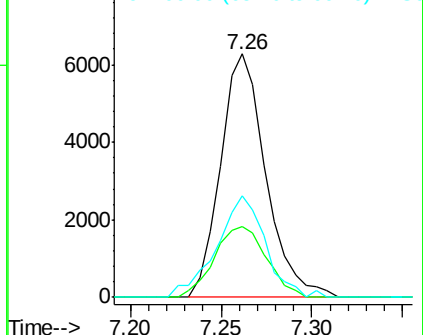
94 100

65 29.0 26.3 39.5

66 41.6 33.3 49.9



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



#10

2-Chlorophenol

Concen: 16.12 ng/ul

RT: 7.64 min Scan# 817

Delta R.T. -0.00 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

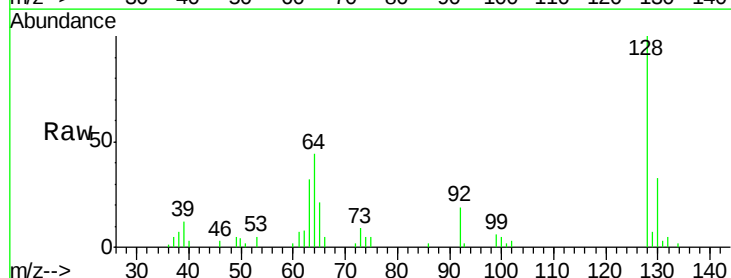
Tgt Ion: 128 Resp: 17787

Ion Ratio Lower Upper

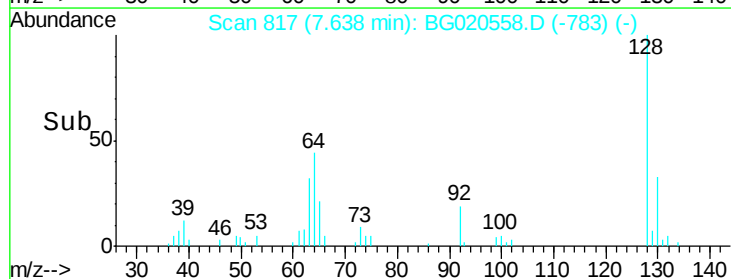
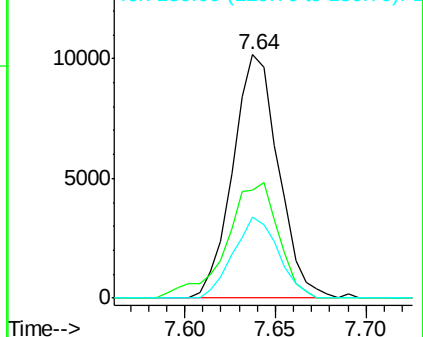
128 100

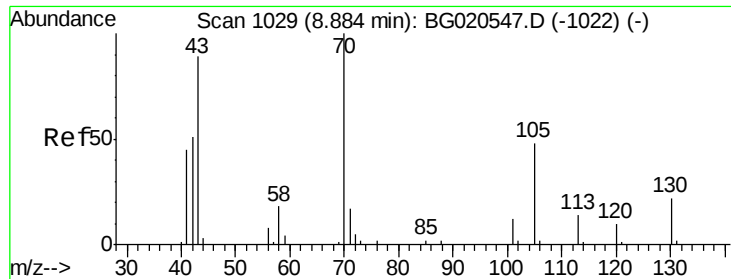
64 44.4 39.4 59.0

130 33.4 24.6 36.8



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

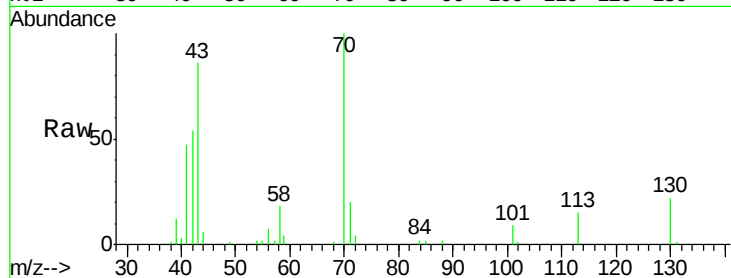




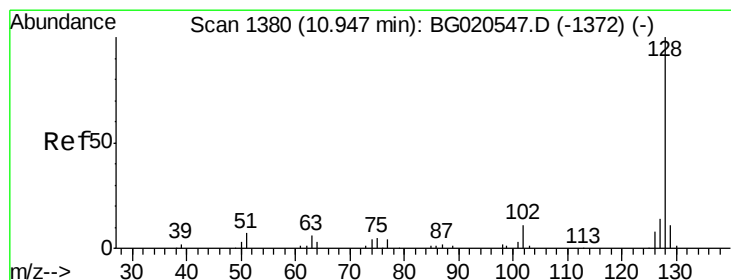
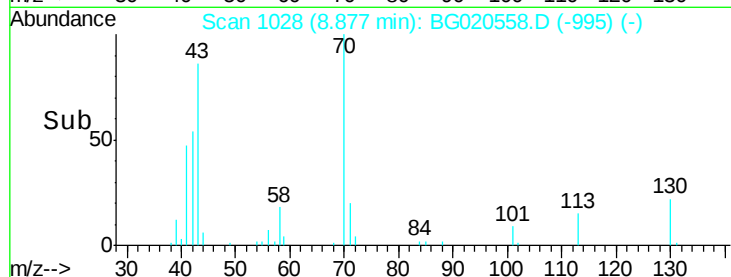
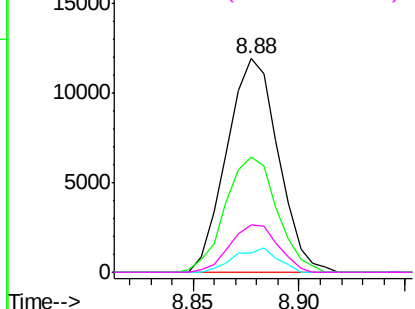
#15
N-Nitroso-di-n-propylamine
Concen: 21.43 ng/ul
RT: 8.88 min Scan# 1028
Delta R.T. -0.01 min
Lab File: BG020558.D
Acq: 27 Dec 2015 16:36

Instrument :
BNA_G
ClientSampleId :
D9N67MSD

Tgt Ion:	70	Resp:	20118
Ion	Ratio	Lower	Upper
70	100		
42	54.1	44.3	66.5
101	9.0	7.6	11.4
130	22.3	17.0	25.4

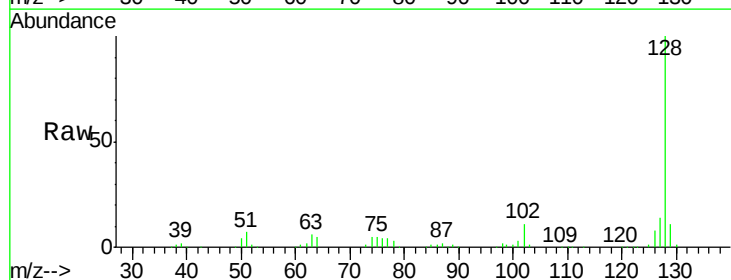


Abundance Ion 70.00 (69.70 to 70.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 101.00 (100.70 to 101.70): BGC
Ion 130.00 (129.70 to 130.70): BGC

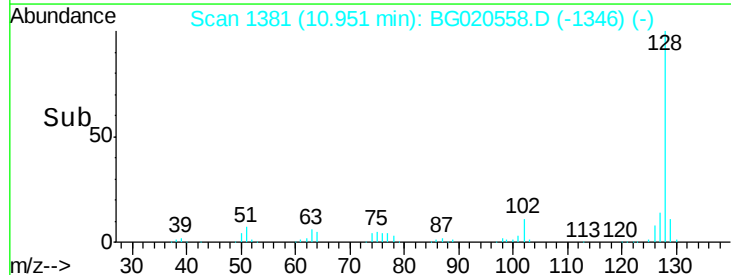
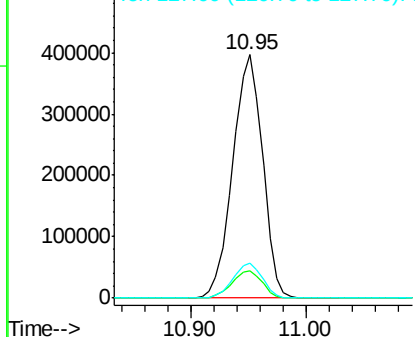


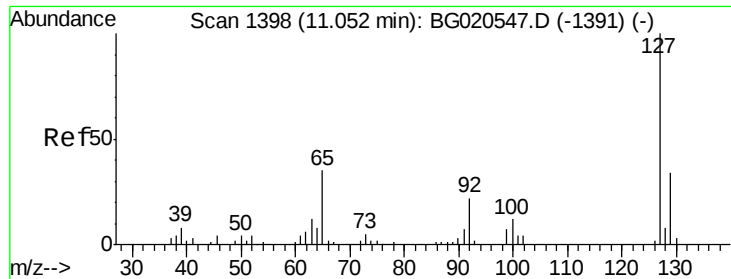
#28
Naphthalene
Concen: 178.05 ng/ul
RT: 10.95 min Scan# 1381
Delta R.T. 0.00 min
Lab File: BG020558.D
Acq: 27 Dec 2015 16:36

Tgt Ion:	128	Resp:	712037
Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.6	12.8
127	14.4	10.1	15.1



Abundance Ion 128.00 (127.70 to 128.70): BGC
Ion 129.00 (128.70 to 129.70): BGC
Ion 127.00 (126.70 to 127.70): BGC

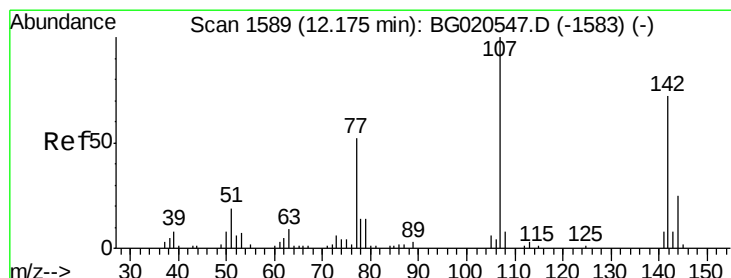
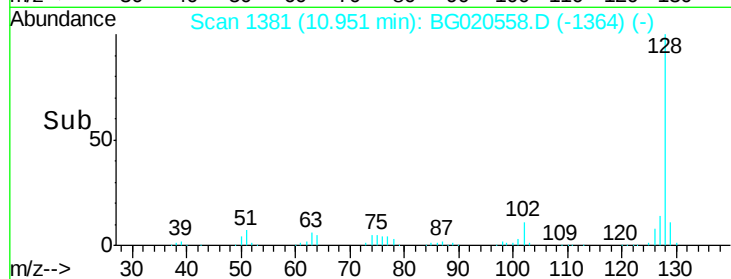
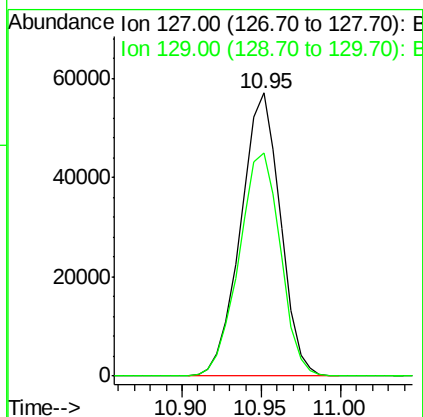
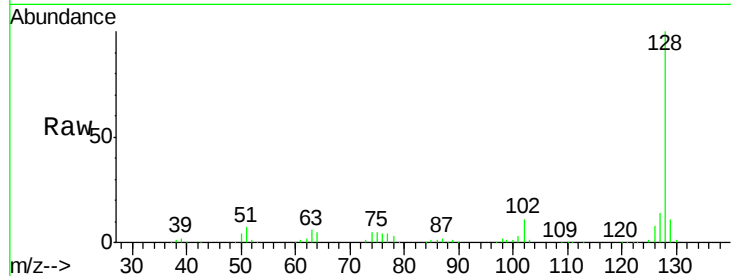




#30
4-Chloroaniline
Concen: 66.42 ng/ul
RT: 10.95 min Scan# 1381
Delta R.T. -0.10 min
Lab File: BG020558.D
Acq: 27 Dec 2015 16:36

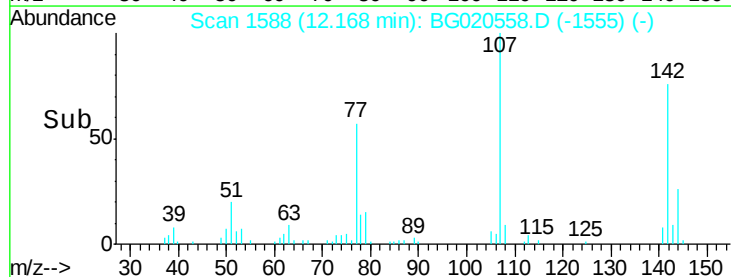
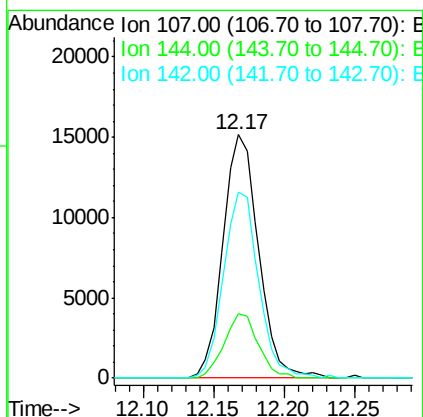
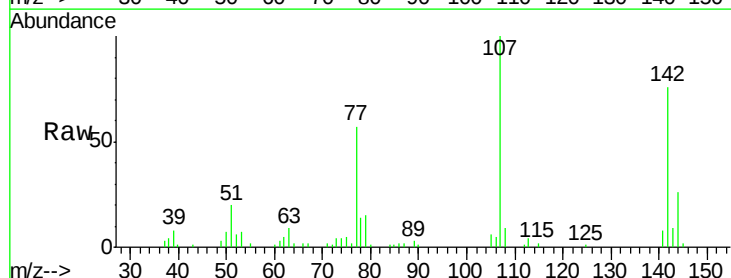
Instrument :
BNA_G
ClientSampleId :
D9N67MSD

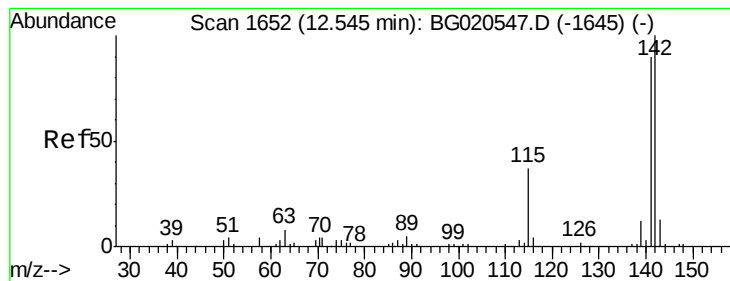
Tgt Ion:127 Resp: 99274
Ion Ratio Lower Upper
127 100
129 78.7 25.7 38.5#



#33
4-Chloro-3-methylphenol
Concen: 19.03 ng/ul
RT: 12.17 min Scan# 1588
Delta R.T. -0.01 min
Lab File: BG020558.D
Acq: 27 Dec 2015 16:36

Tgt Ion:107 Resp: 26534
Ion Ratio Lower Upper
107 100
144 26.3 18.7 28.1
142 76.3 52.8 79.2





#34

2-Methylnaphthalene

Concen: 28.91 ng/ul

RT: 12.54 min Scan# 1652

Delta R.T. -0.00 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

Instrument :

BNA_G

ClientSampleId :

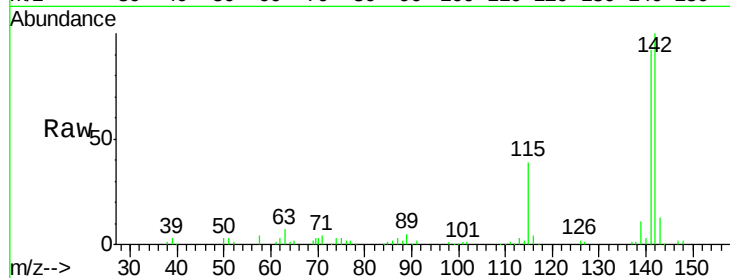
D9N67MSD

Tgt Ion:142 Resp: 85535

Ion Ratio Lower Upper

142 100

141 92.1 74.9 112.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.54

60000

50000

40000

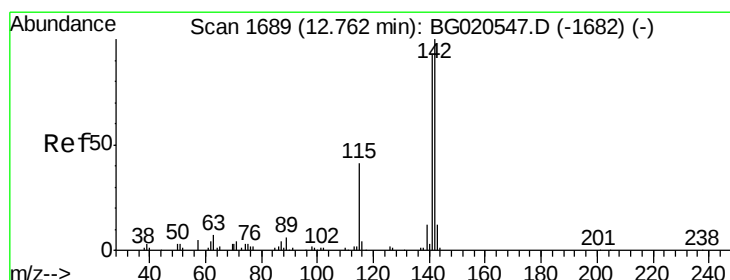
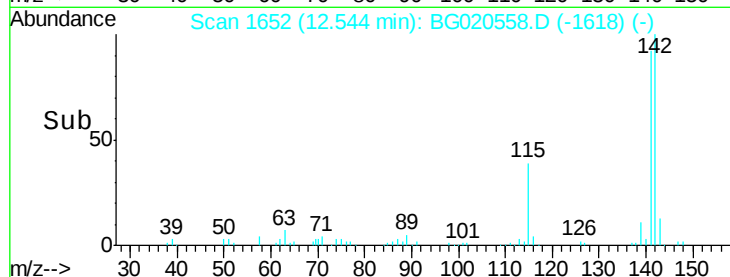
30000

20000

10000

0

Time--> 12.45 12.50 12.55 12.60



#35

1-Methylnaphthalene

Concen: 17.60 ng/ul

RT: 12.76 min Scan# 1689

Delta R.T. -0.00 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

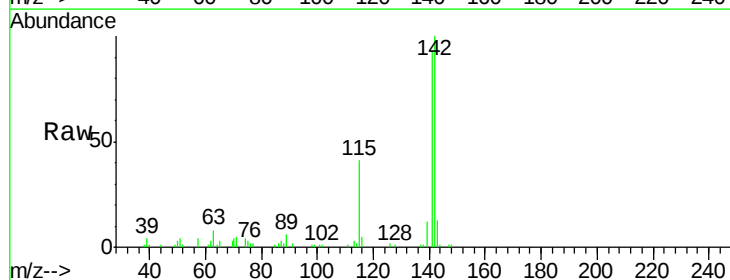
Tgt Ion:142 Resp: 49472

Ion Ratio Lower Upper

142 100

141 93.1 73.0 109.6

116 4.8 3.0 4.6#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

12.76

40000

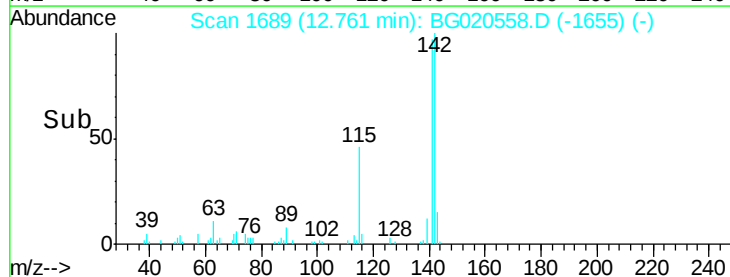
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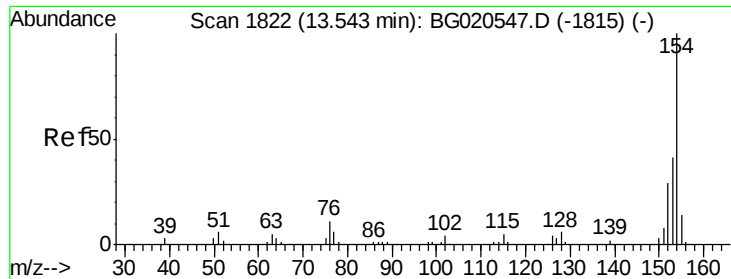
20000

10000

0

Time--> 12.70 12.75 12.80

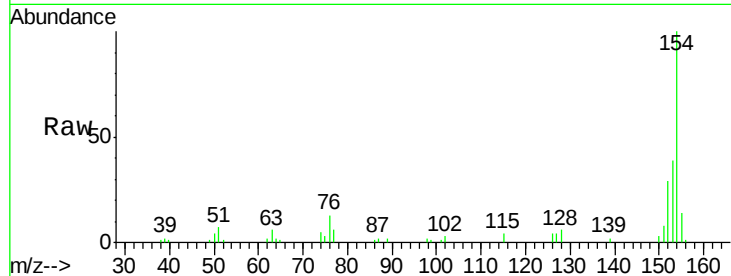




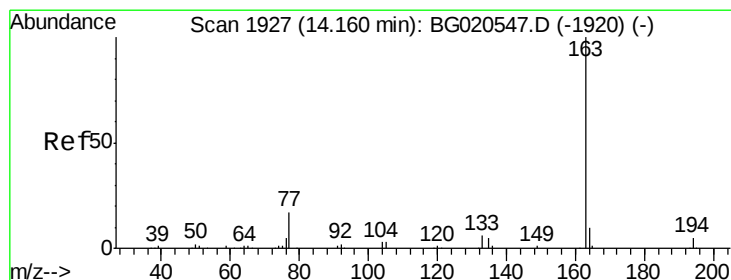
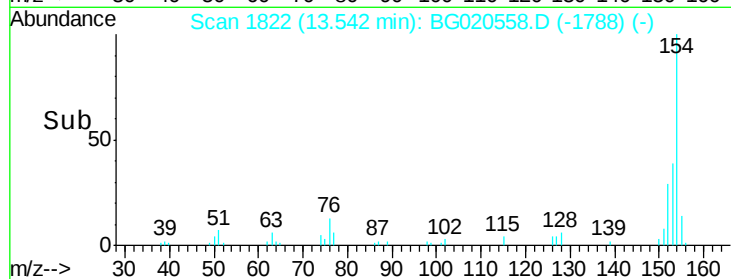
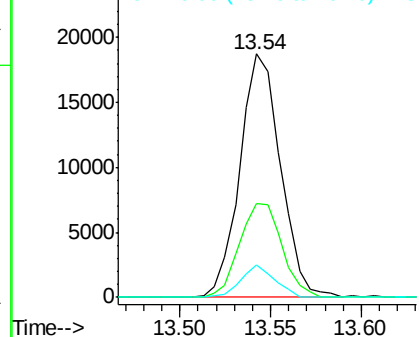
#41
 1,1'-Biphenyl
 Concen: 6.99 ng/ul
 RT: 13.54 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: BG020558.D
 Acq: 27 Dec 2015 16:36

Instrument :
 BNA_G
 ClientSampleId :
 D9N67MSD

Tgt Ion:154 Resp: 29193
 Ion Ratio Lower Upper
 154 100
 153 38.6 35.5 53.3
 76 13.3 10.4 15.6

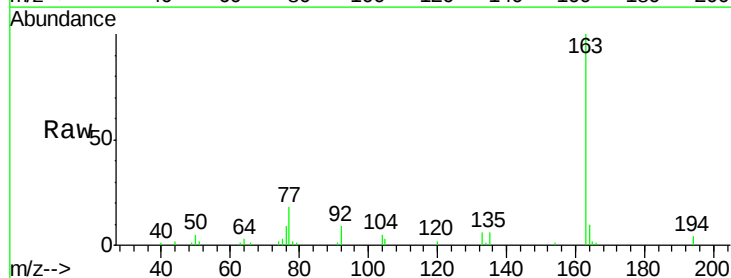


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BGC

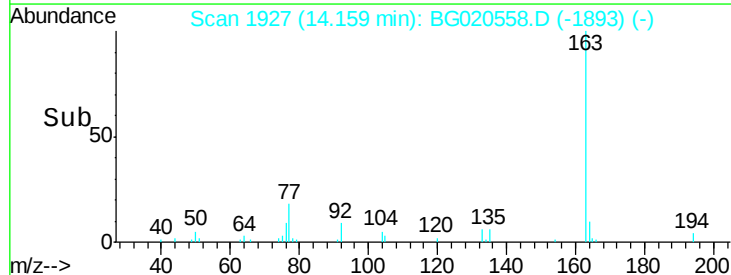
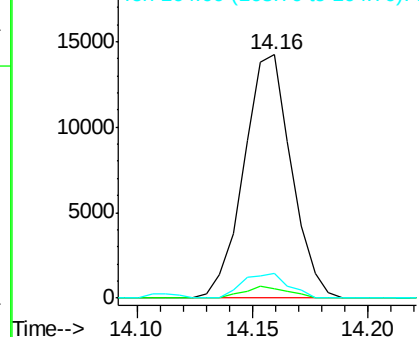


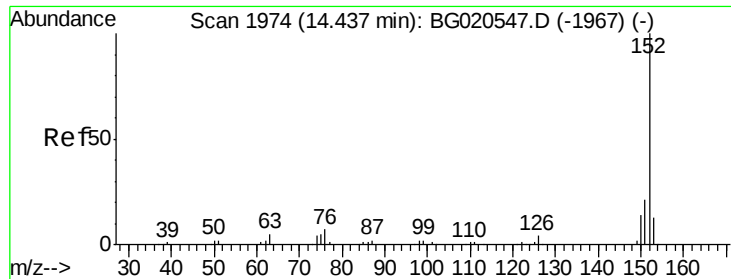
#45
 Dimethylphthalate
 Concen: 4.50 ng/ul
 RT: 14.16 min Scan# 1927
 Delta R.T. -0.00 min
 Lab File: BG020558.D
 Acq: 27 Dec 2015 16:36

Tgt Ion:163 Resp: 20393
 Ion Ratio Lower Upper
 163 100
 194 3.8 3.5 5.3
 164 10.1 7.7 11.5



Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E





#48

Acenaphthylene

Concen: 2.93 ng/ul

RT: 14.44 min Scan# 1974

Delta R.T. -0.00 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

Instrument :

BNA_G

ClientSampleId :

D9N67MSD

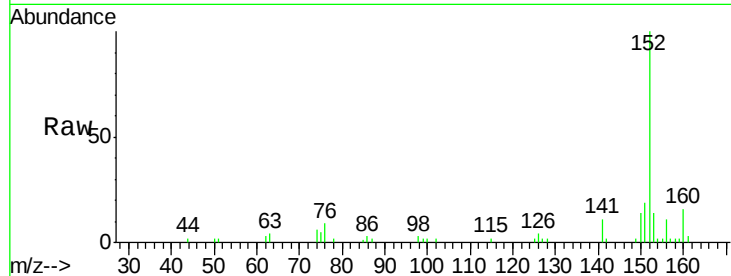
Tgt Ion:152 Resp: 15922

Ion Ratio Lower Upper

152 100

151 19.4 16.4 24.6

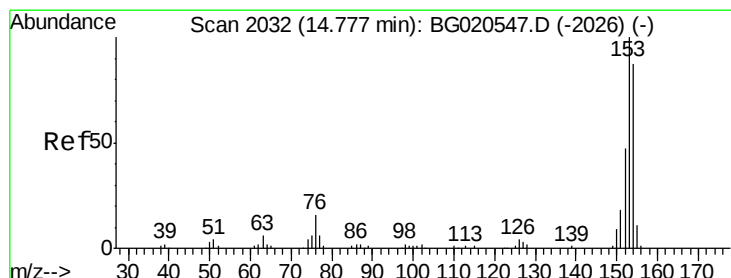
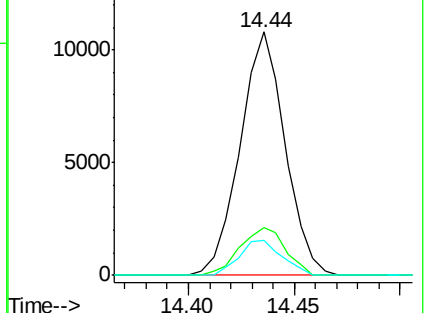
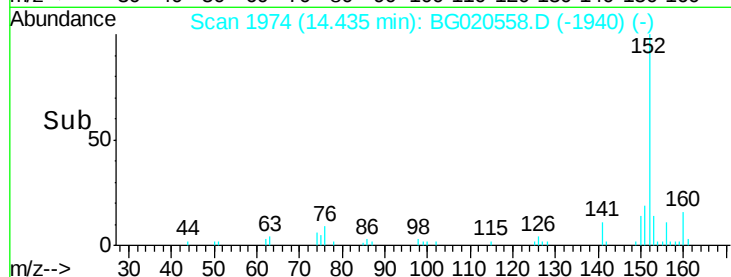
153 14.5 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Acenaphthene

Concen: 57.02 ng/ul

RT: 14.78 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

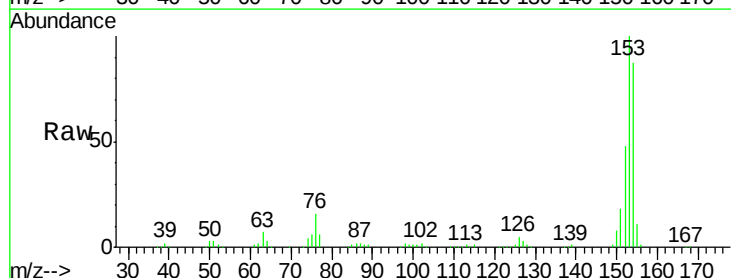
Tgt Ion:153 Resp: 209501

Ion Ratio Lower Upper

153 100

152 47.7 37.6 56.4

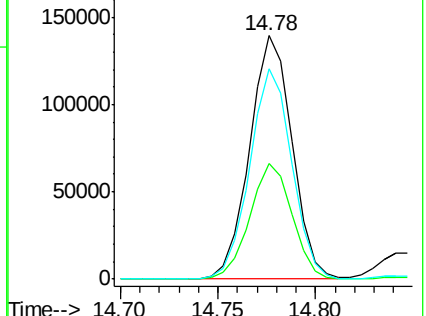
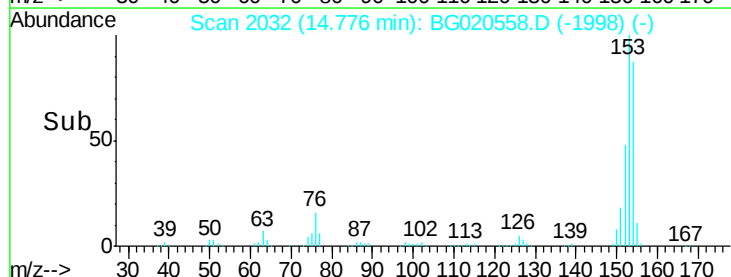
154 86.6 67.9 101.9

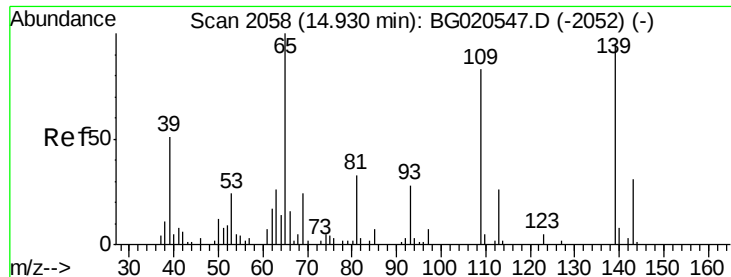


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

4-Nitrophenol

Concen: 5.99 ng/ul

RT: 14.93 min Scan# 2058

Delta R.T. -0.00 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

Instrument :

BNA_G

ClientSampleId :

D9N67MSD

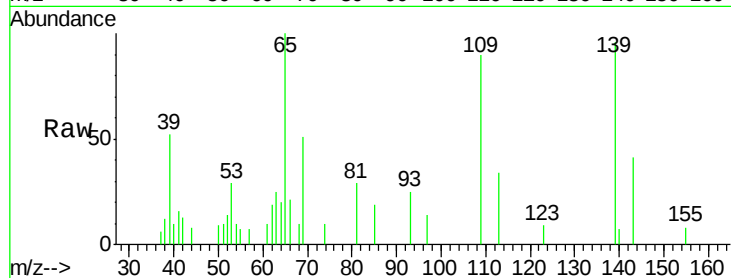
Tgt Ion:109 Resp: 4032

Ion Ratio Lower Upper

109 100

139 107.1 80.5 120.7

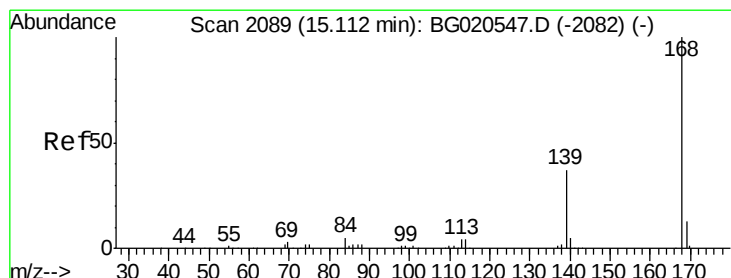
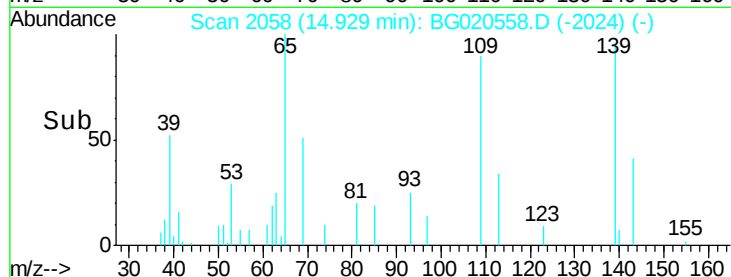
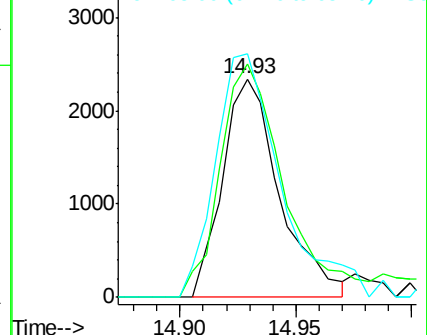
65 111.7 93.4 140.2



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): B



#54

Dibenzofuran

Concen: 21.50 ng/ul

RT: 15.11 min Scan# 2089

Delta R.T. -0.00 min

Lab File: BG020558.D

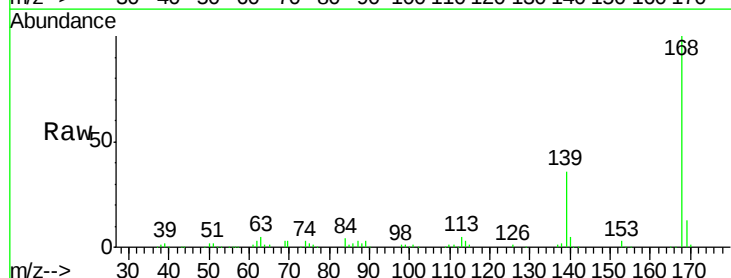
Acq: 27 Dec 2015 16:36

Tgt Ion:168 Resp: 117517

Ion Ratio Lower Upper

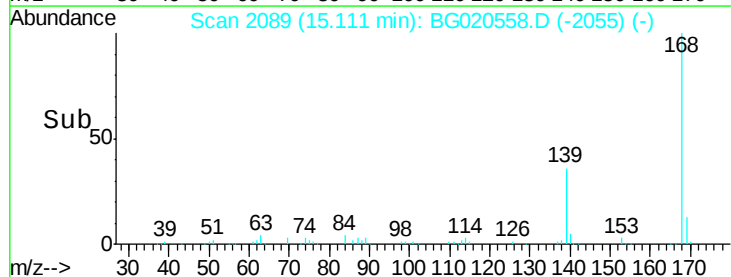
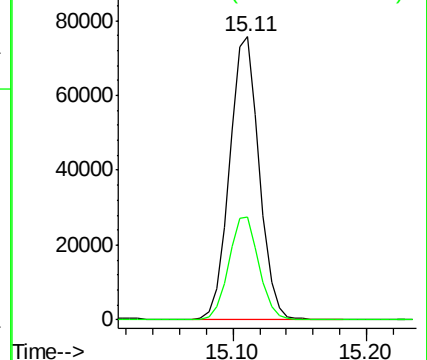
168 100

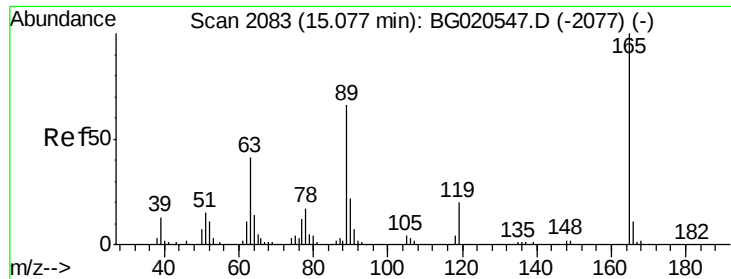
139 36.1 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

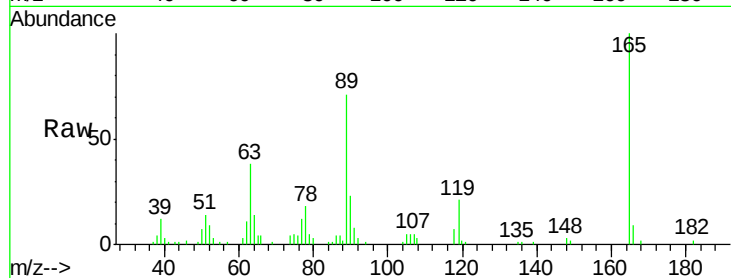




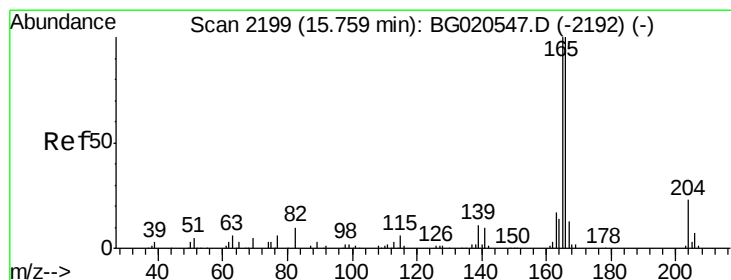
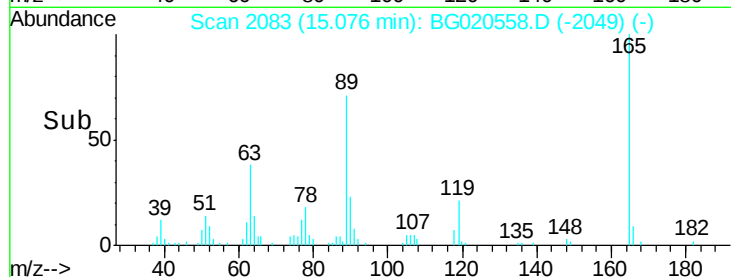
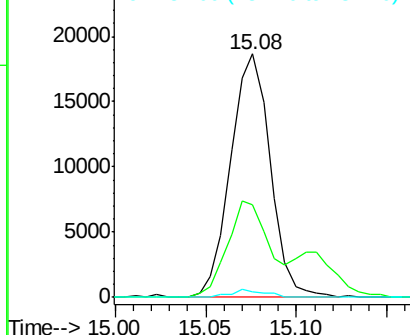
#55
 2,4-Dinitrotoluene
 Concen: 20.59 ng/ul
 RT: 15.08 min Scan# 2083
 Delta R.T. -0.00 min
 Lab File: BG020558.D
 Acq: 27 Dec 2015 16:36

Instrument :
 BNA_G
 ClientSampleId :
 D9N67MSD

Tgt Ion:165 Resp: 28398
 Ion Ratio Lower Upper
 165 100
 63 38.2 35.8 53.8
 182 2.4 2.2 3.2

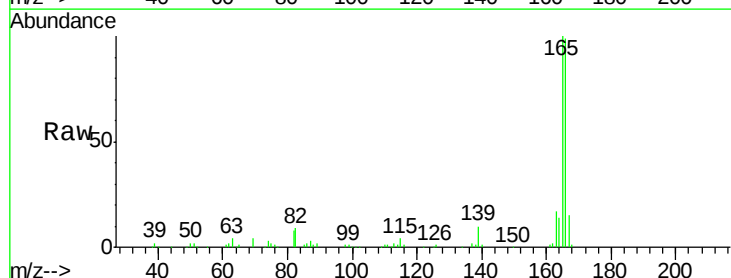


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BG
 Ion 182.00 (181.70 to 182.70): E

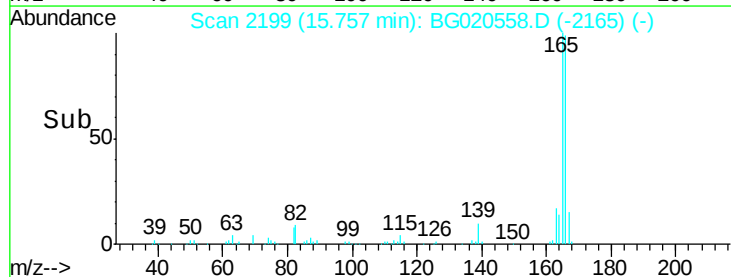
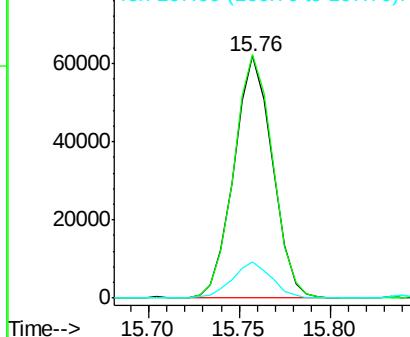


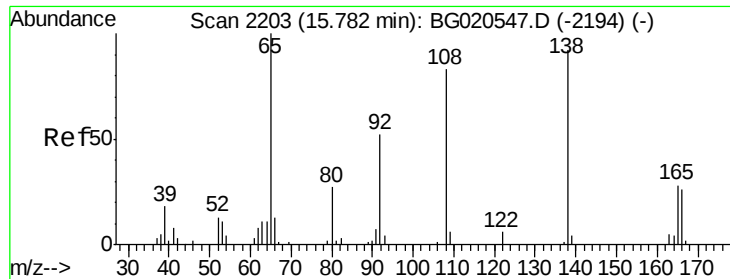
#59
 Fluorene
 Concen: 20.66 ng/ul
 RT: 15.76 min Scan# 2199
 Delta R.T. -0.00 min
 Lab File: BG020558.D
 Acq: 27 Dec 2015 16:36

Tgt Ion:166 Resp: 91507
 Ion Ratio Lower Upper
 166 100
 165 100.6 81.4 122.0
 167 14.8 11.2 16.8



Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

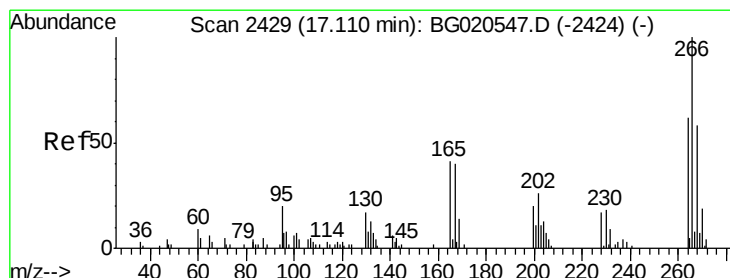
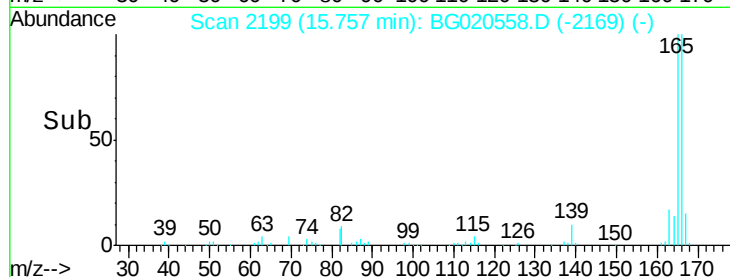
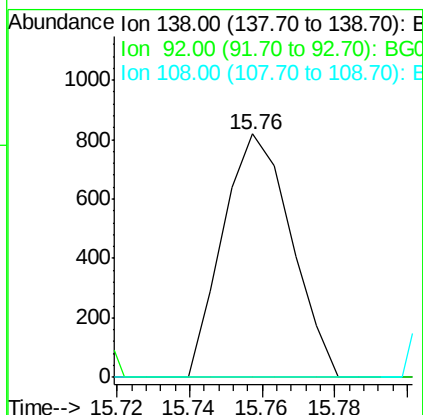
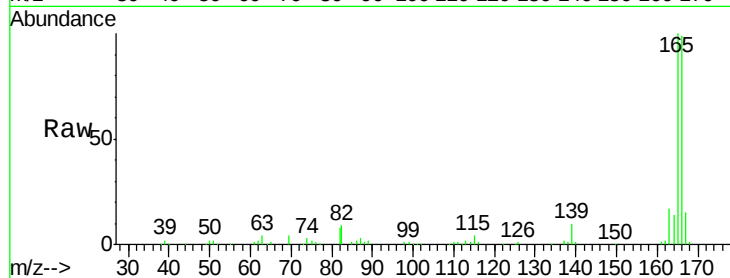




#61
4-Nitroaniline
Concen: 1.12 ng/ul
RT: 15.76 min Scan# 2199
Delta R.T. -0.02 min
Lab File: BG020558.D
Acq: 27 Dec 2015 16:36

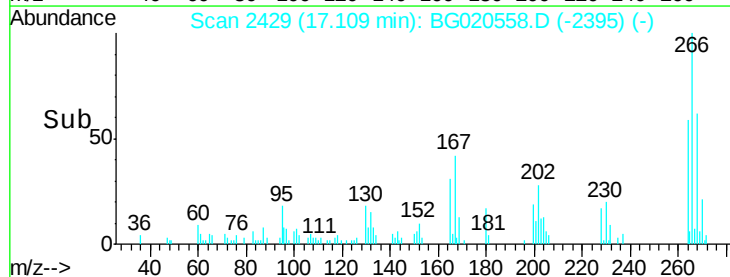
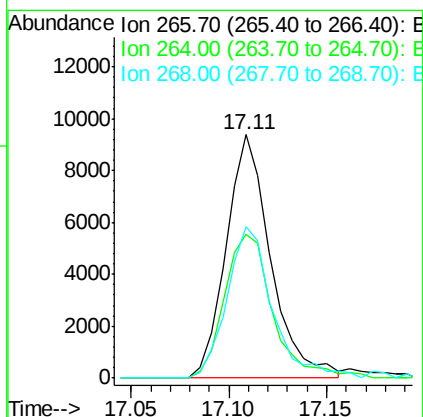
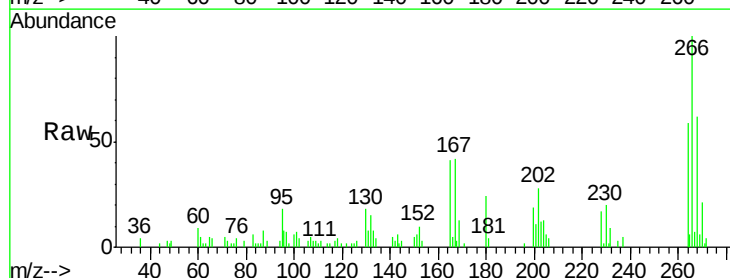
Instrument :
BNA_G
ClientSampleId :
D9N67MSD

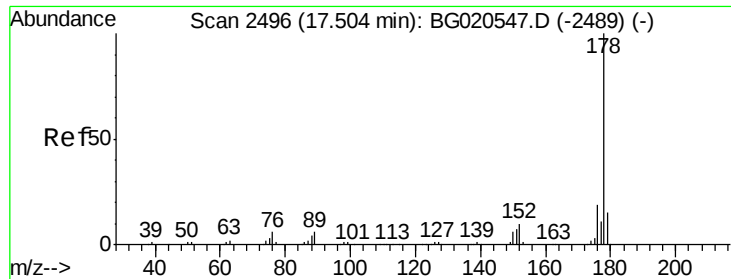
Tgt Ion:138 Resp: 1071
Ion Ratio Lower Upper
138 100
92 0.0 45.2 67.8#
108 0.0 75.4 113.0#



#69
Pentachlorophenol
Concen: 13.72 ng/ul
RT: 17.11 min Scan# 2429
Delta R.T. -0.00 min
Lab File: BG020558.D
Acq: 27 Dec 2015 16:36

Tgt Ion:266 Resp: 14792
Ion Ratio Lower Upper
266 100
264 59.0 52.2 78.2
268 62.1 49.3 73.9





#70

Phenanthrene

Concen: 23.39 ng/ul

RT: 17.50 min Scan# 2495

Delta R.T. -0.01 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

Instrument :

BNA_G

ClientSampleId :

D9N67MSD

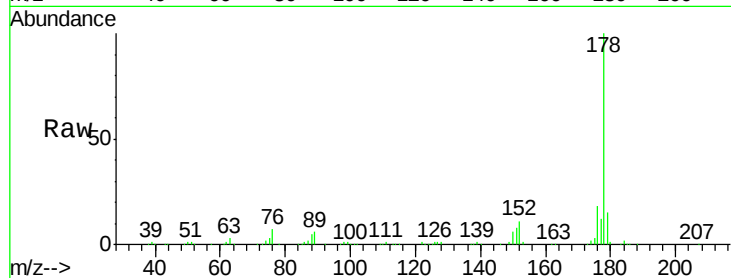
Tgt Ion:178 Resp: 186502

Ion Ratio Lower Upper

178 100

179 15.4 12.9 19.3

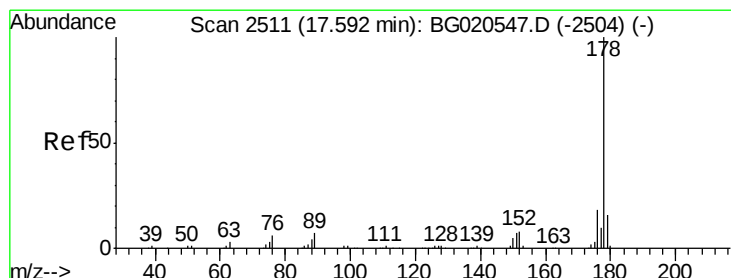
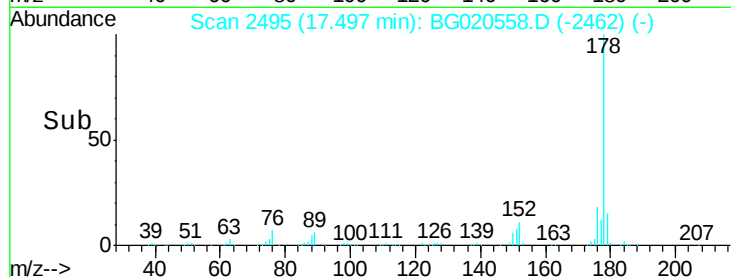
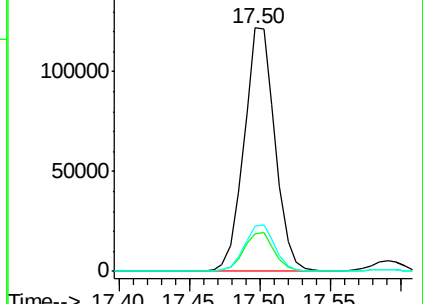
176 18.4 15.3 22.9



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



#72

Anthracene

Concen: 22.87 ng/ul

RT: 17.50 min Scan# 2495

Delta R.T. -0.10 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

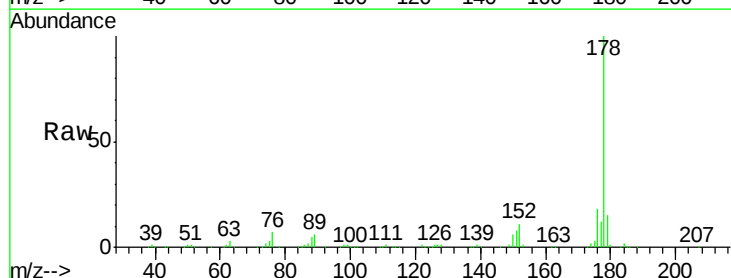
Tgt Ion:178 Resp: 186502

Ion Ratio Lower Upper

178 100

179 15.4 12.3 18.5

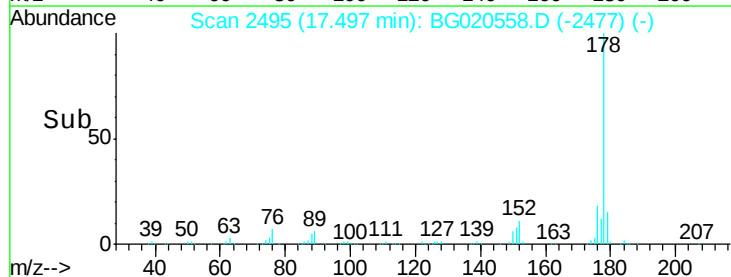
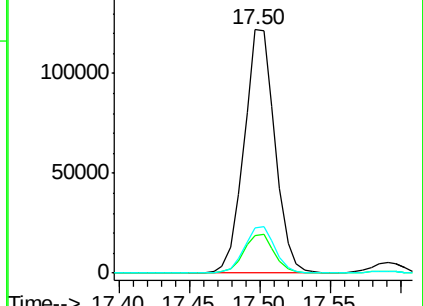
176 18.4 14.3 21.5

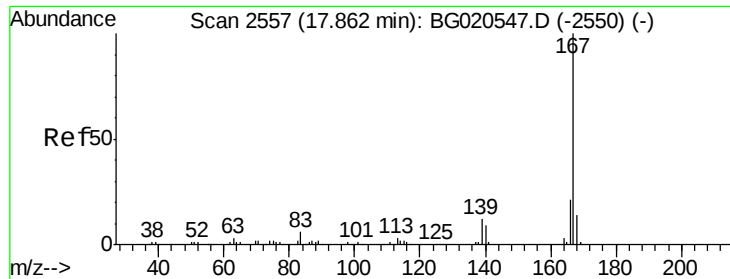


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 8.48 ng/ul

RT: 17.86 min Scan# 2557

Delta R.T. -0.00 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

Instrument :

BNA_G

ClientSampleId :

D9N67MSD

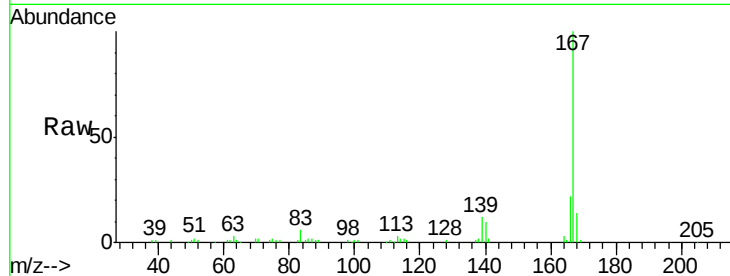
Tgt Ion:167 Resp: 58263

Ion Ratio Lower Upper

167 100

166 21.6 17.0 25.6

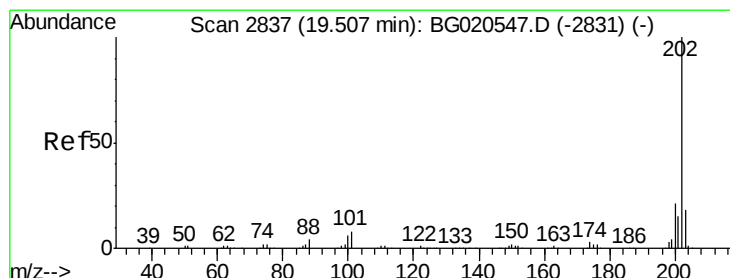
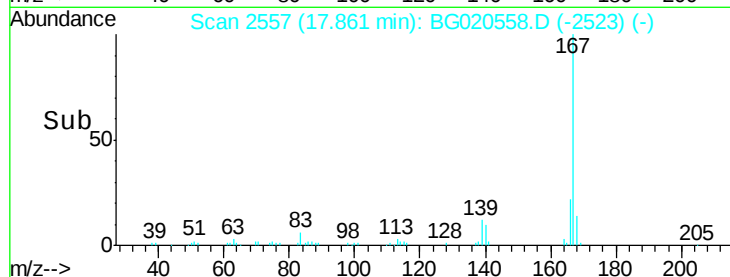
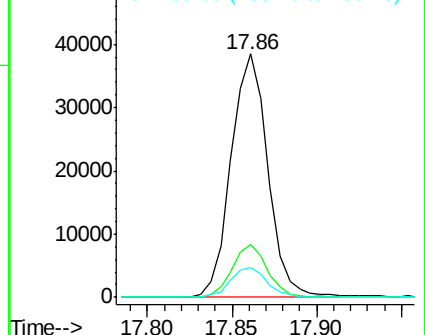
139 12.0 10.1 15.1



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#77

Fluoranthene

Concen: 2.82 ng/ul

RT: 19.51 min Scan# 2837

Delta R.T. -0.00 min

Lab File: BG020558.D

Acq: 27 Dec 2015 16:36

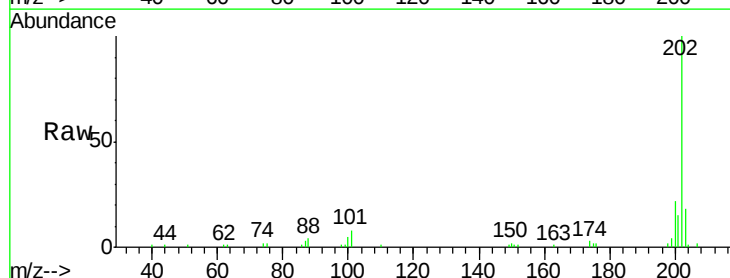
Tgt Ion:202 Resp: 28278

Ion Ratio Lower Upper

202 100

101 7.7 6.2 9.4

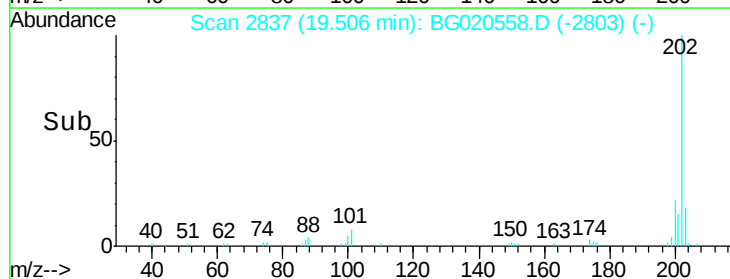
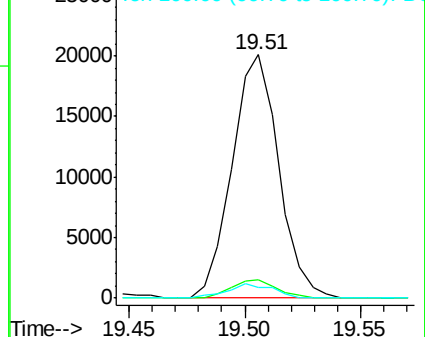
100 4.6 5.1 7.7#

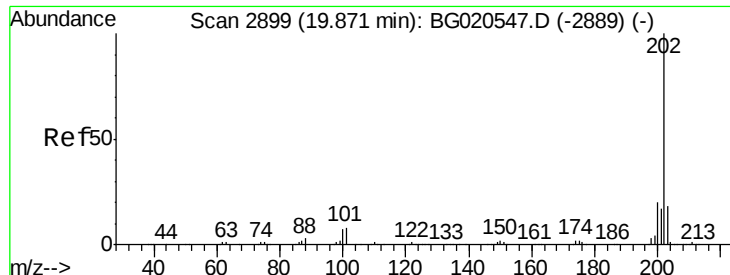


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#80

Pyrene

Concen: 23.54 ng/ul

RT: 19.87 min Scan# 2899

Delta R.T. -0.00 min

Lab File: BG020558.D

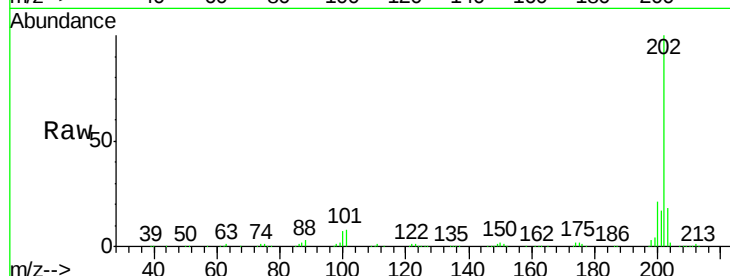
Acq: 27 Dec 2015 16:36

Instrument :

BNA_G

ClientSampleId :

D9N67MSD



Tgt Ion: 202 Resp: 233756

Ion Ratio Lower Upper

202 100

101 8.4 7.0 10.4

100 7.5 6.4 9.6

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

