

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121615\
 Data File : BG020197.D
 Acq On : 15 Dec 2015 20:02
 Operator : UM/SJ
 Sample : G4786-09
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9BQ4

Quant Time: Dec 16 02:42:41 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 16 02:38:55 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.11	152	23611	20.00	ng/ul	0.00
18) Naphthalene-d8	10.95	136	100637	20.00	ng/ul	0.04
36) Acenaphthene-d10	14.73	164	70644	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	157115	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	182716	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	175156	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.48	96	654	1.53	ng/uL	0.00
5) Phenol-d5	7.25	99	17023	8.18	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	42784	34.44	ng/ul	0.00
9) 2-Chlorophenol-d4	7.63	132	44085	29.11	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	33311	18.71	ng/ul	0.00
19) Nitrobenzene-d5	9.27	128	37417	47.70	ng/ul	0.00
22) 2-Nitrophenol-d4	10.00	143	34415	39.42	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.54	165	59527	33.67	ng/ul	0.01
29) 4-Chloroaniline-d4	11.11	131	8907	4.48	ng/ul	0.06
44) Dimethylphthalate-d6	14.13	166	212315	37.16	ng/ul	0.00
47) Acenaphthylene-d8	14.43	160	253093	38.07	ng/ul	0.00
52) 4-Nitrophenol-d4	14.91	143	10057	9.81	ng/ul	0.00
58) Fluorene-d10	15.72	176	189320	36.53	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	39704	42.63	ng/ul	0.00
71) Anthracene-d10	17.57	188	293696	40.57	ng/ul	0.00
79) Pyrene-d10	19.85	212	325031	38.17	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.79	264	317201	36.31	ng/ul	0.00

Target Compounds

						Qvalue
4) Benzaldehyde	7.24	77	41864	31.06	ng/ul#	1
6) Phenol	7.27	94	3926	1.76	ng/ul	89
12) 2,2'-oxybis(1-Chloropropan	8.51	45	2511	1.14	ng/ul#	1
14) Acetophenone	8.91	105	23318	8.36	ng/ul#	59
17) Hexachloroethane	9.21	117	30942	46.42	ng/ul#	1
20) Nitrobenzene	9.37	77	5148	2.48	ng/ul#	23
28) Naphthalene	11.07	128	9992991	1901.46	ng/ul#	35
30) 4-Chloroaniline	11.06	127	3049548	1504.04	ng/ul#	13
34) 2-Methylnaphthalene	12.58	142	1311948	326.82	ng/ul	97
35) 1-Methylnaphthalene	12.81	142	2209987	572.64	ng/ul#	94
41) 1,1'-Biphenyl	13.57	154	287833	54.01	ng/ul	96
43) 2-Nitroaniline	13.76	65	6130	4.23	ng/ul#	33
48) Acenaphthylene	14.46	152	68639	9.72	ng/ul#	78
50) Acenaphthene	14.80	153	802630	168.90	ng/ul	97
54) Dibenzofuran	15.13	168	83775	11.85	ng/ul	97
59) Fluorene	15.78	166	301063	53.03	ng/ul	99
61) 4-Nitroaniline	15.78	138	4399	3.47	ng/ul#	29
65) N-Nitrosodiphenylamine	15.98	169	7049	1.61	ng/ul#	1
70) Phenanthrene	17.52	178	782906	91.10	ng/ul	98
72) Anthracene	17.61	178	167465	19.21	ng/ul	99
75) Carbazole	17.88	167	149971	20.48	ng/ul	98
77) Fluoranthene	19.67	202	56253	5.60	ng/ul	99
80) Pyrene	19.88	202	213987	19.35	ng/ul	98

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Misc :
ALS Vial : 44 Sample Multiplier: 1

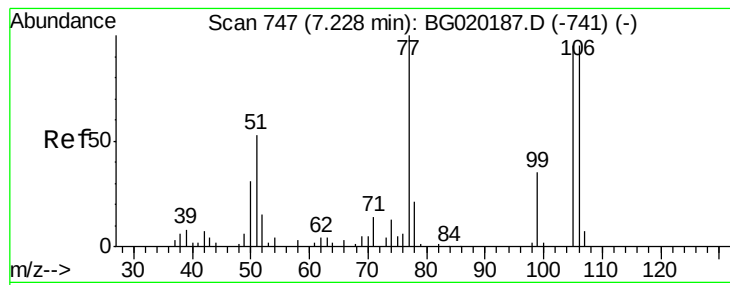
Instrument :
BNA_G
ClientSampleId :
G9BQ4

Quant Time: Dec 16 02:42:41 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Dec 16 02:38:55 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Benzo(a)anthracene	21.79	228	60962	5.72	ng/ul	94
85) Chrysene	21.79	228	60909	6.07	ng/ul	97
88) Benzo(b)fluoranthene	23.97	252	32855	3.12	ng/ul	97
89) Benzo(k)fluoranthene	23.97	252	32855	3.25	ng/ul	99
91) Benzo(a)pyrene	24.71	252	18276	1.83	ng/ul	95

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

```
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Sample    : G4786-09  
Misc      :  
ALS Vial  : 44      Sample Multiplier: 1
```



#4

Benzaldehyde

Concen: 31.06 ng/ul

RT: 7.24 min Scan# 748

Delta R.T. 0.01 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

Instrument :

BNA_G

ClientSampleId :

G9BQ4

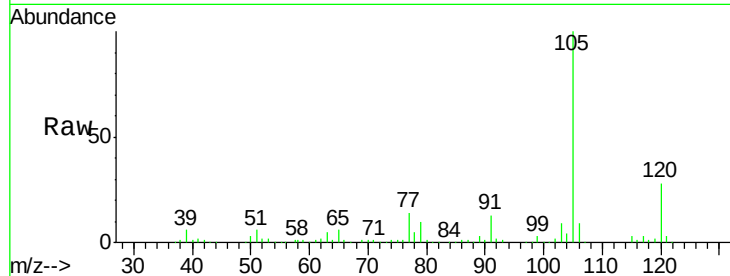
Tgt Ion: 77 Resp: 41864

Ion Ratio Lower Upper

77 100

105 717.5 77.8 116.6#

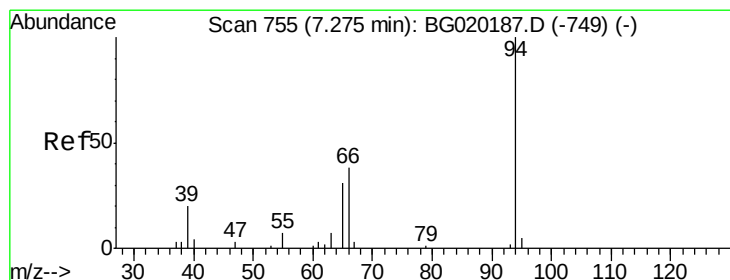
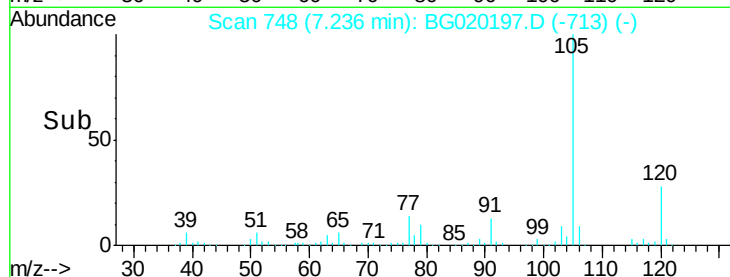
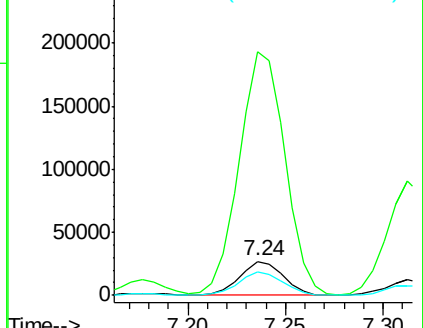
106 67.8 72.6 109.0#



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



#6

Phenol

Concen: 1.76 ng/ul

RT: 7.27 min Scan# 754

Delta R.T. -0.00 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

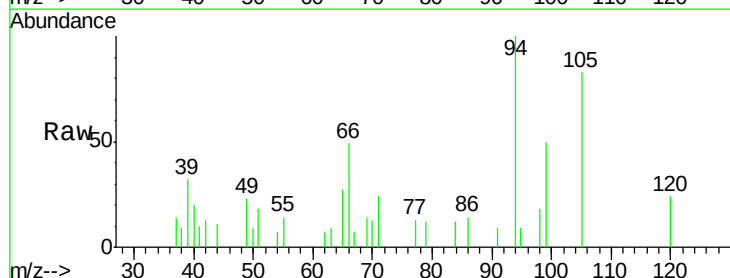
Tgt Ion: 94 Resp: 3926

Ion Ratio Lower Upper

94 100

65 26.8 26.3 39.5

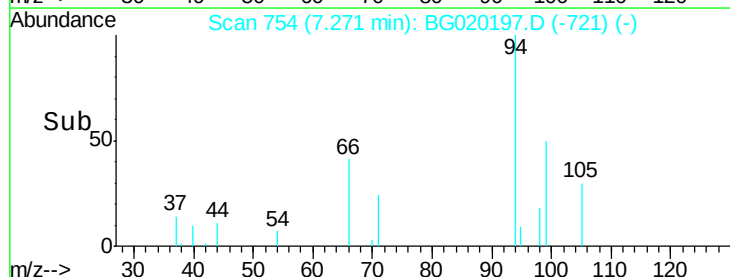
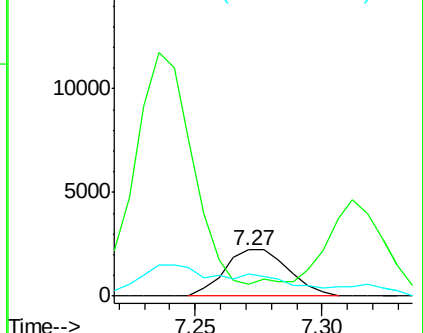
66 48.9 33.3 49.9

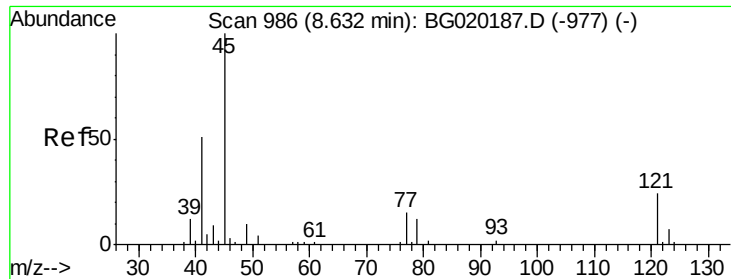


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

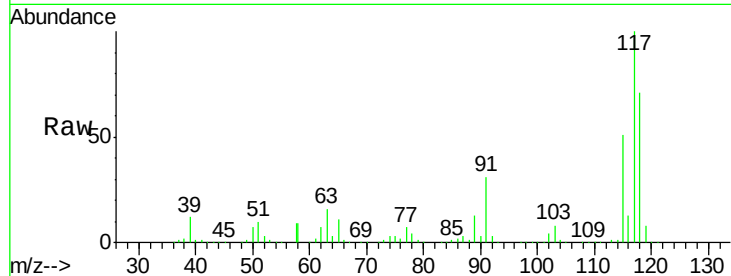




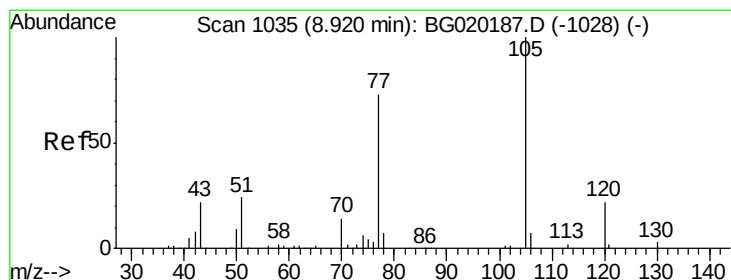
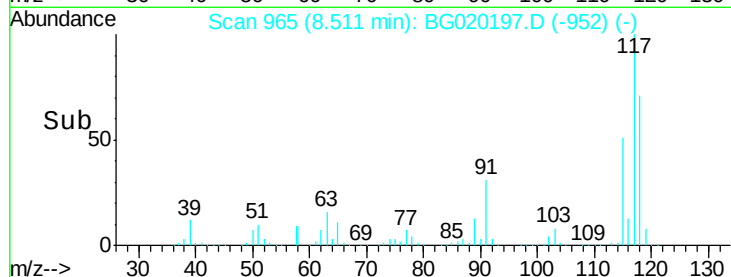
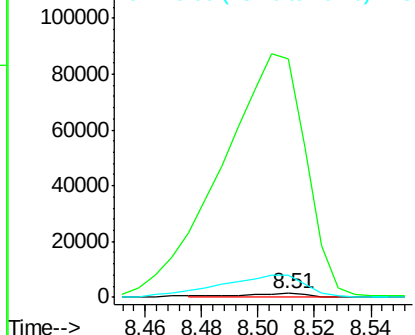
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 2,2'-oxybis(1-Chloropropane)
 Concen: 1.14 ng/ul
 RT: 8.51 min Scan# 965
 Delta R.T. -0.12 min
 Lab File: BG020197.D
 Acq: 15 Dec 2015 20:02

Instrument :
 BNA_G
 ClientSampleId :
 G9BQ4

Tgt Ion: 45 Resp: 2511
 Ion Ratio Lower Upper
 45 100
 77 6007.3 12.1 18.1#
 79 547.3 9.0 13.4#

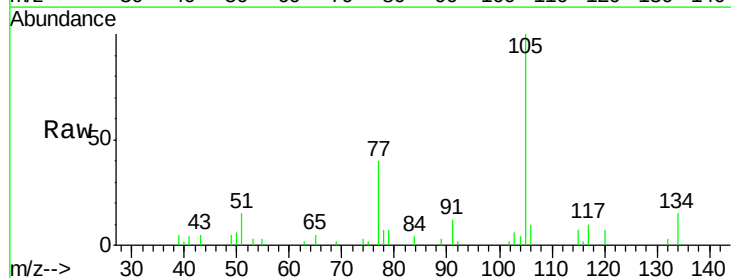


Abundance Ion 45.00 (44.70 to 45.70): BGC
 Ion 77.00 (76.70 to 77.70): BGC
 Ion 79.00 (78.70 to 79.70): BGC

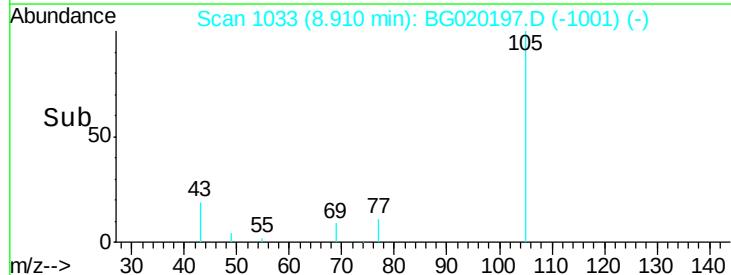
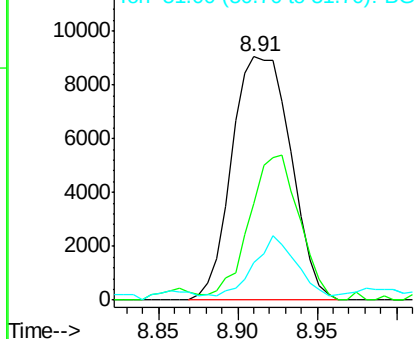


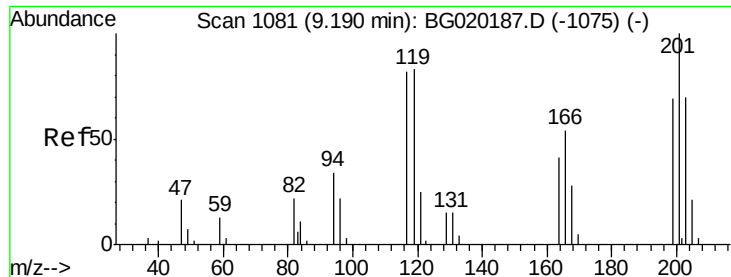
#14
 Acetophenone
 Concen: 8.36 ng/ul
 RT: 8.91 min Scan# 1033
 Delta R.T. -0.01 min
 Lab File: BG020197.D
 Acq: 15 Dec 2015 20:02

Tgt Ion: 105 Resp: 23318
 Ion Ratio Lower Upper
 105 100
 77 39.7 65.2 97.8#
 51 15.3 22.6 33.8#



Abundance Ion 105.00 (104.70 to 105.70): E
 Ion 77.00 (76.70 to 77.70): BGC
 Ion 51.00 (50.70 to 51.70): BGC

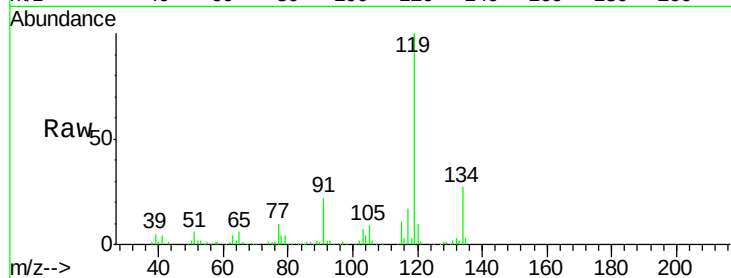




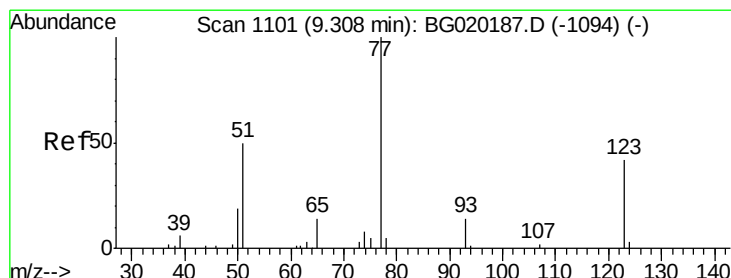
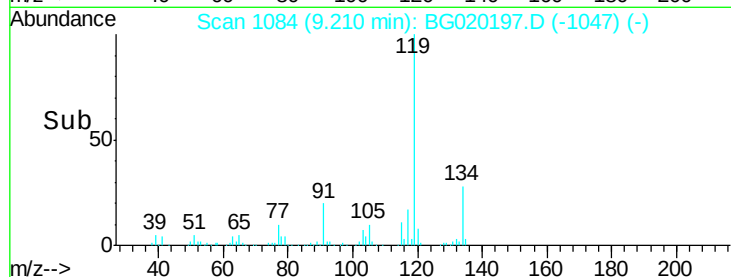
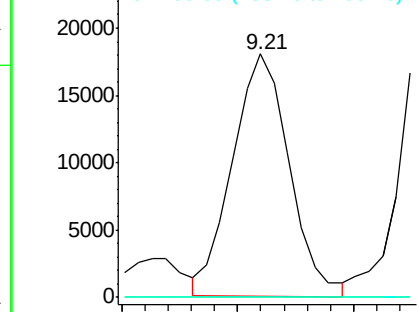
#17
Hexachloroethane
Concen: 46.42 ng/ul
RT: 9.21 min Scan# 1084
Delta R.T. 0.02 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

Instrument :
BNA_G
ClientSampleId :
G9BQ4

Tgt Ion:117 Resp: 30942
Ion Ratio Lower Upper
117 100
201 0.0 102.7 154.1#
199 0.0 65.8 98.8#

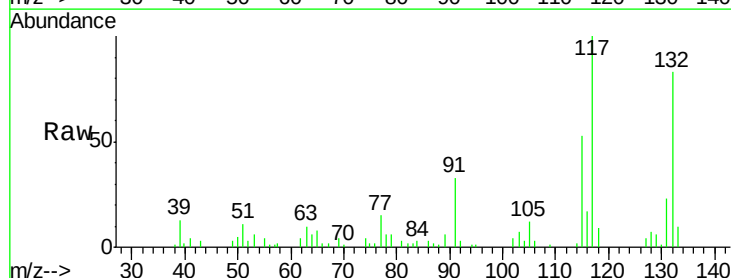


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

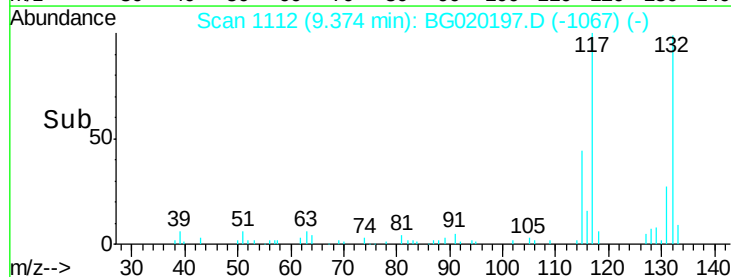
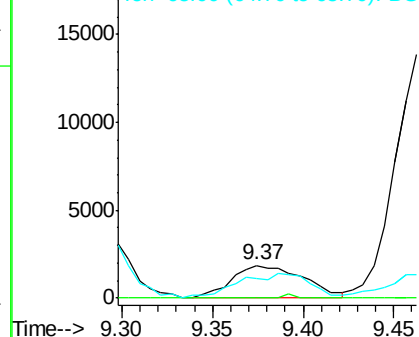


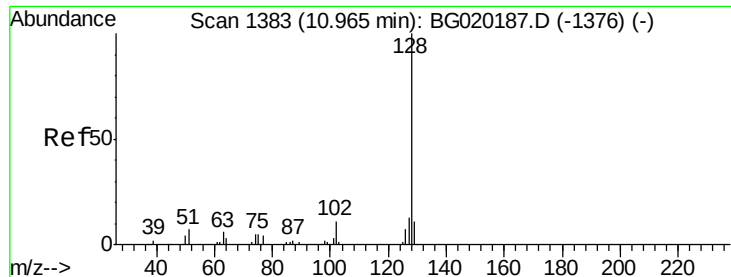
#20
Nitrobenzene
Concen: 2.48 ng/ul
RT: 9.37 min Scan# 1112
Delta R.T. 0.07 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

Tgt Ion: 77 Resp: 5148
Ion Ratio Lower Upper
77 100
123 0.0 33.4 50.0#
65 58.6 11.7 17.5#



Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 123.00 (122.70 to 123.70): E
Ion 65.00 (64.70 to 65.70): BGC

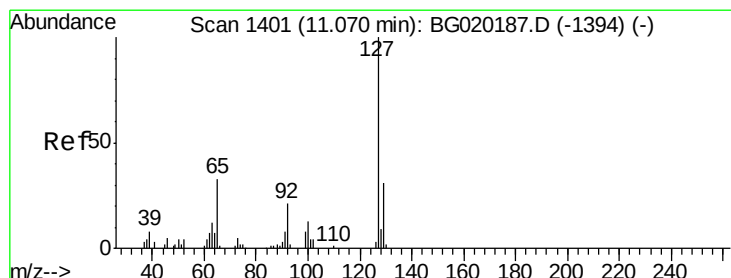
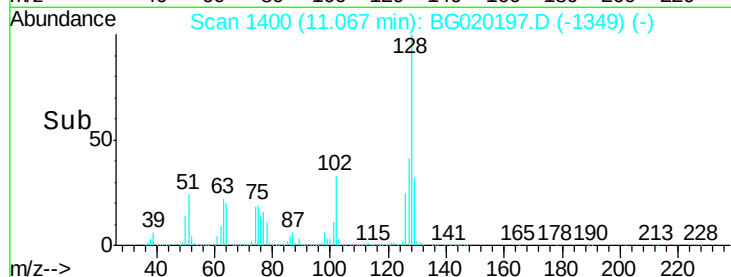
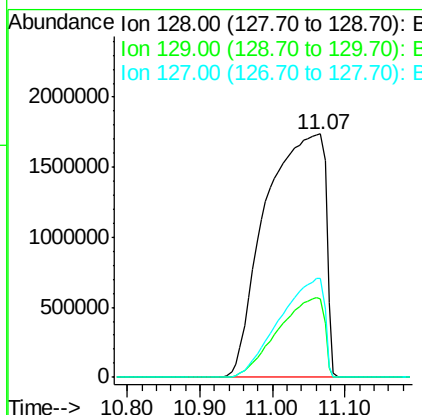
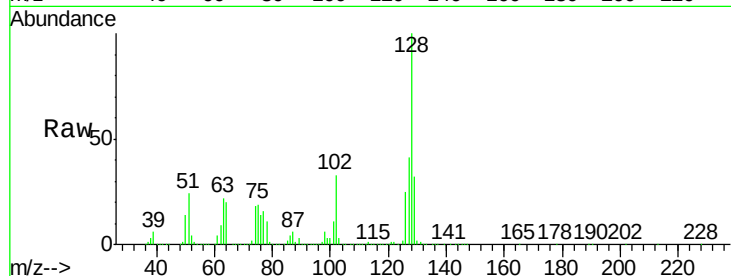




#28
Naphthalene
Concen: 1901.46 ng/ul
RT: 11.07 min Scan# 1400
Delta R.T. 0.10 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

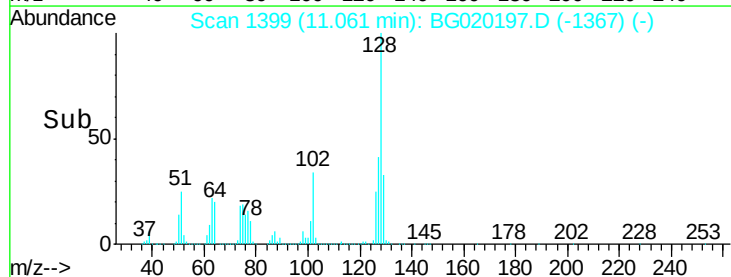
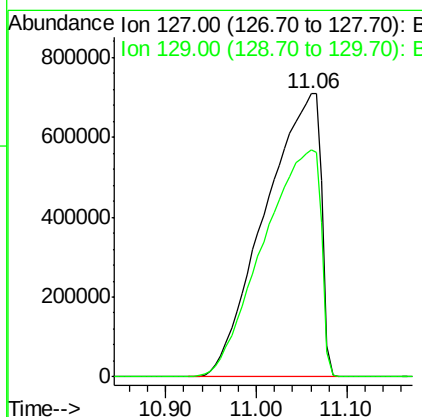
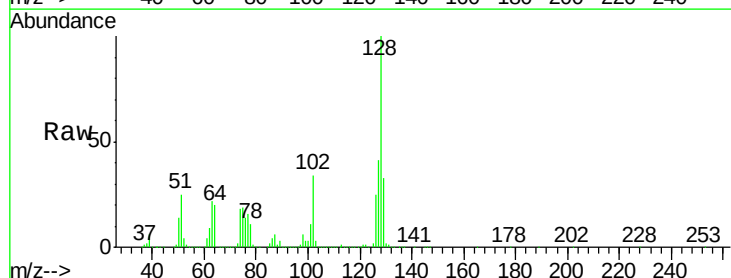
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ClientSampleId :
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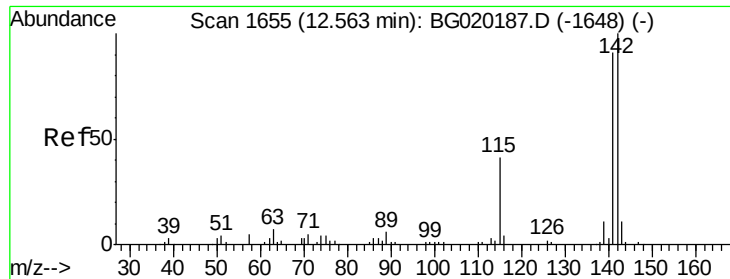
Tgt Ion:128 Resp: 9992991
Ion Ratio Lower Upper
128 100
129 32.4 8.6 12.8#
127 40.7 10.1 15.1#



#30
4-Chloroaniline
Concen: 1504.04 ng/ul
RT: 11.06 min Scan# 1399
Delta R.T. -0.01 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

Tgt Ion:127 Resp: 3049548
Ion Ratio Lower Upper
127 100
129 80.4 25.7 38.5#

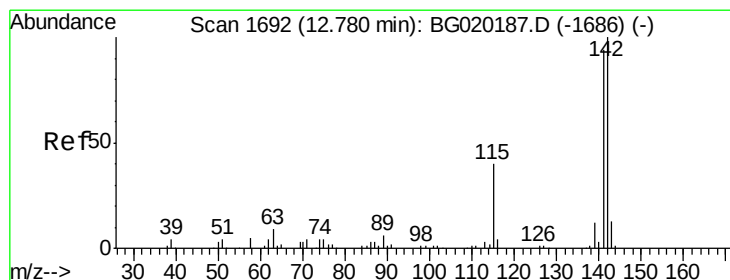
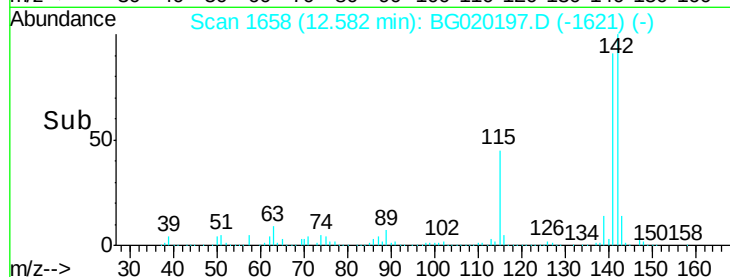
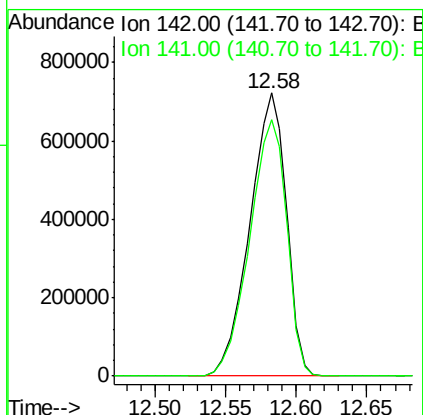
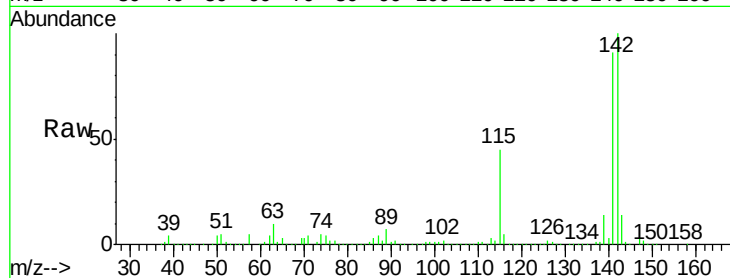




#34
2-Methylnaphthalene
Concen: 326.82 ng/ul
RT: 12.58 min Scan# 1658
Delta R.T. 0.02 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

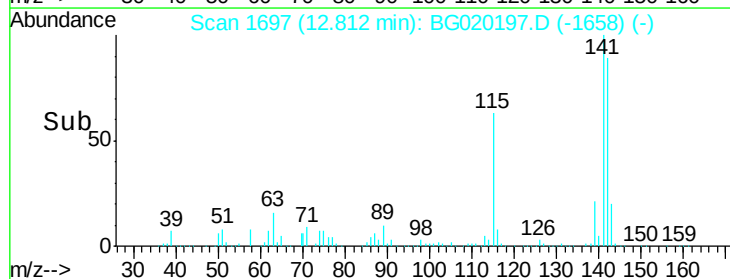
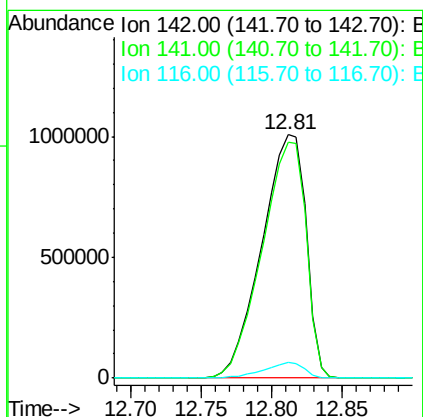
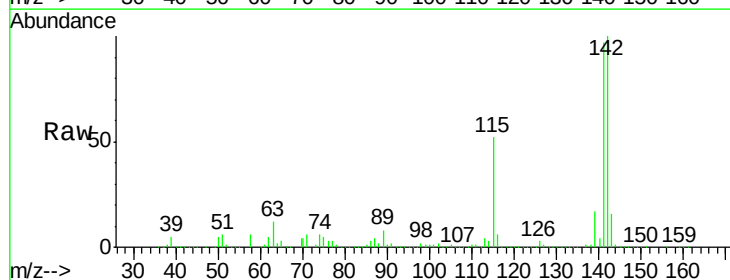
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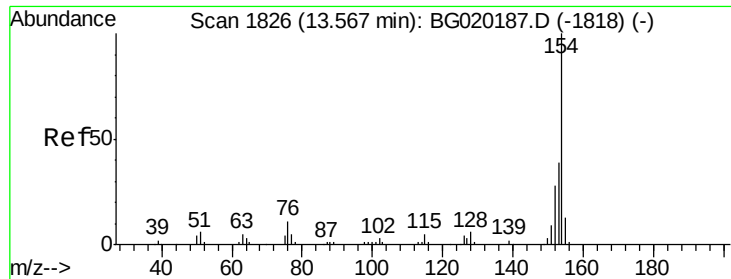
Tgt Ion:142 Resp: 1311948
Ion Ratio Lower Upper
142 100
141 90.7 74.9 112.3



#35
1-Methylnaphthalene
Concen: 572.64 ng/ul
RT: 12.81 min Scan# 1697
Delta R.T. 0.03 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

Tgt Ion:142 Resp: 2209987
Ion Ratio Lower Upper
142 100
141 96.9 73.0 109.6
116 6.2 3.0 4.6#

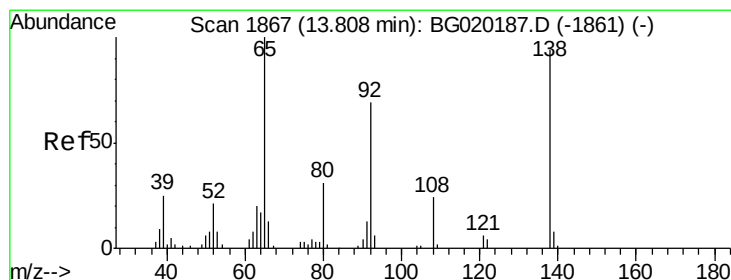
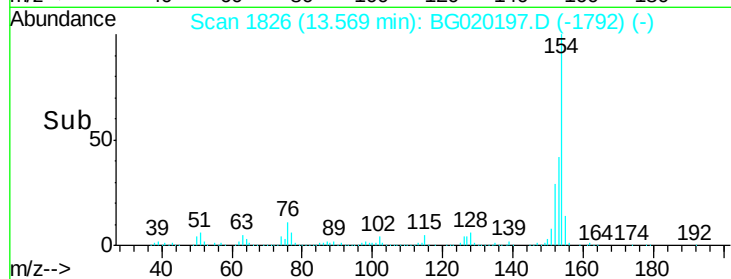
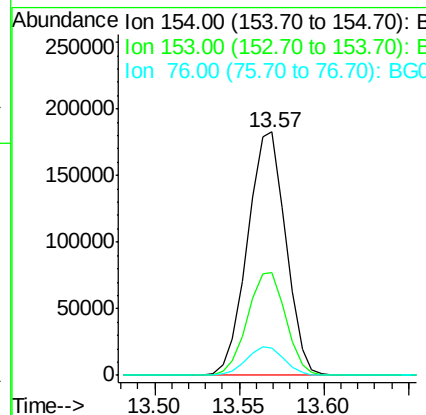
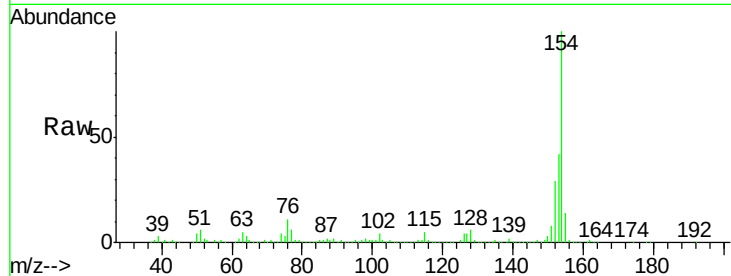




#41
1,1'-Biphenyl
Concen: 54.01 ng/ul
RT: 13.57 min Scan# 1826
Delta R.T. 0.00 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

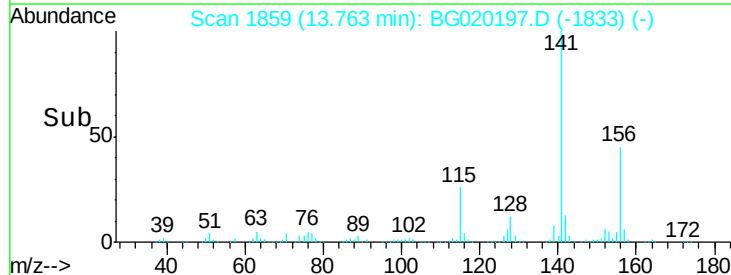
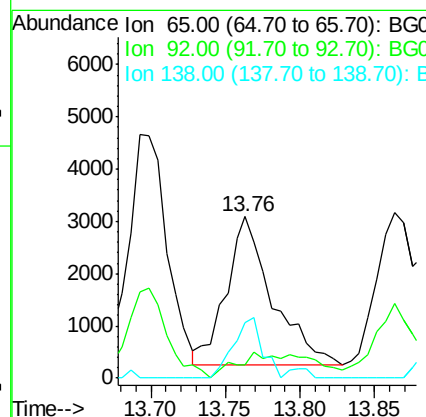
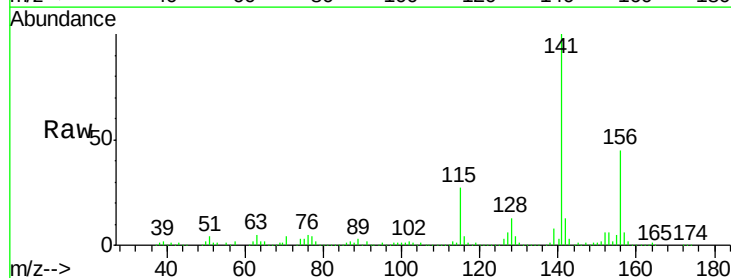
Instrument :
BNA_G
ClientSampleId :
G9BQ4

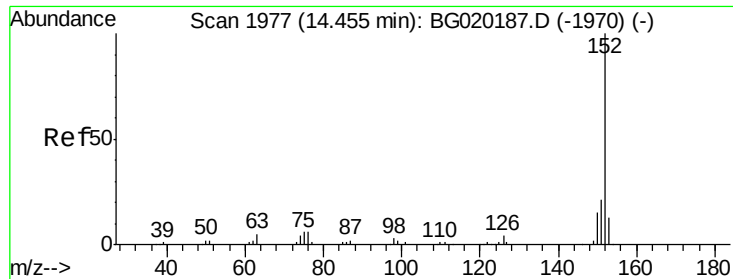
Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.2	35.5	53.3
76	11.0	10.4	15.6



#43
2-Nitroaniline
Concen: 4.23 ng/ul
RT: 13.76 min Scan# 1859
Delta R.T. -0.04 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

Tgt Ion	Ratio	Lower	Upper
65	100		
92	8.2	53.1	79.7#
138	34.3	76.6	114.8#





#48

Acenaphthylene

Concen: 9.72 ng/ul

RT: 14.46 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

Instrument :

BNA_G

ClientSampled :

G9BQ4

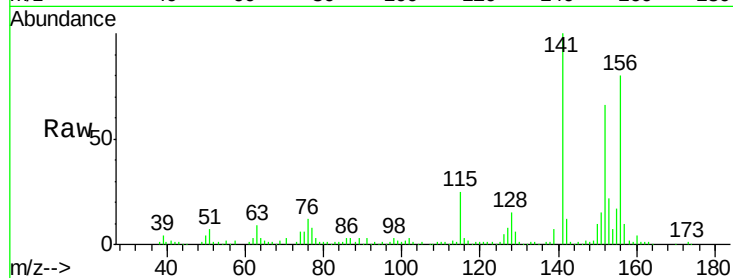
Tgt Ion:152 Resp: 68639

Ion Ratio Lower Upper

152 100

151 22.2 16.4 24.6

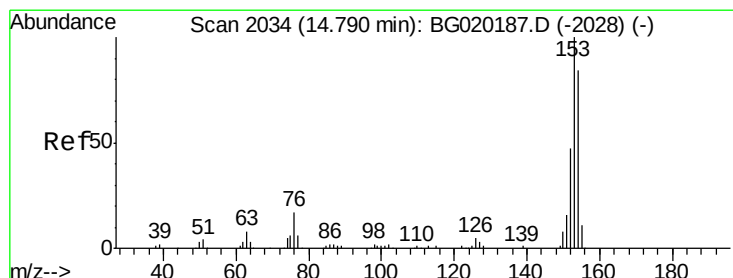
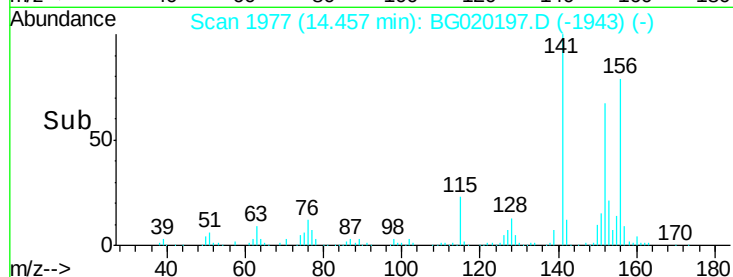
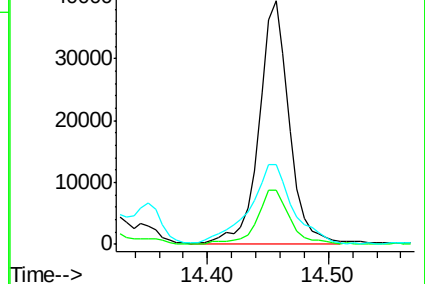
153 33.0 10.4 15.6#



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: 168.90 ng/ul

RT: 14.80 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

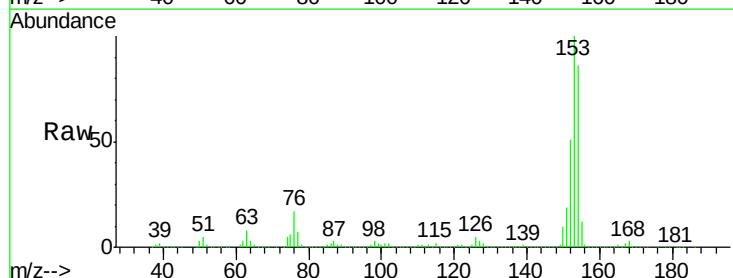
Tgt Ion:153 Resp: 802630

Ion Ratio Lower Upper

153 100

152 50.7 37.6 56.4

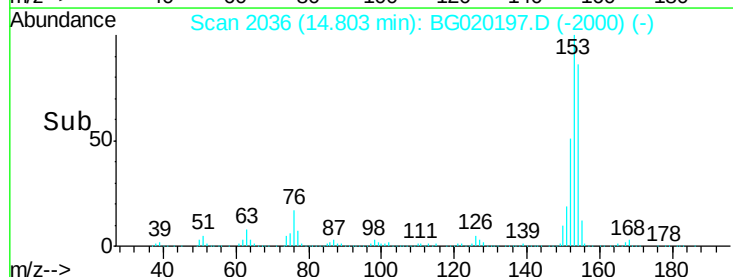
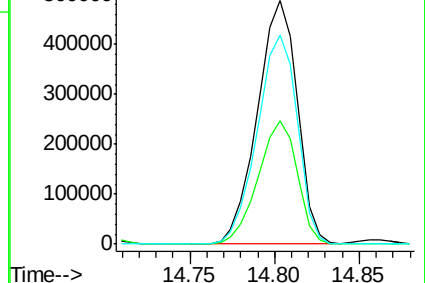
154 85.9 67.9 101.9

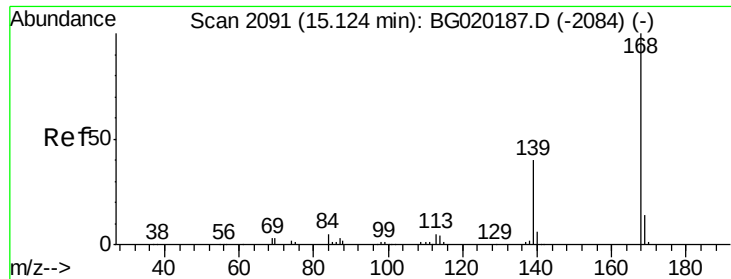


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 11.85 ng/ul

RT: 15.13 min Scan# 2091

Delta R.T. 0.00 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

Instrument :

BNA_G

ClientSampleId :

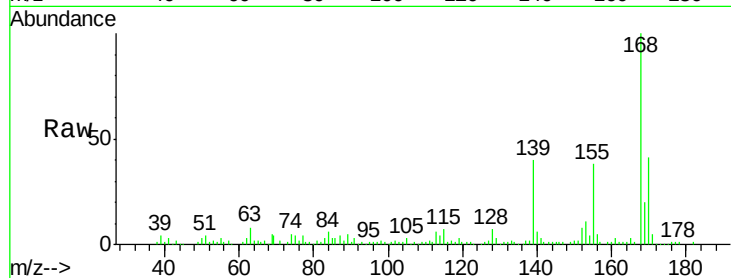
G9BQ4

Tgt Ion:168 Resp: 83775

Ion Ratio Lower Upper

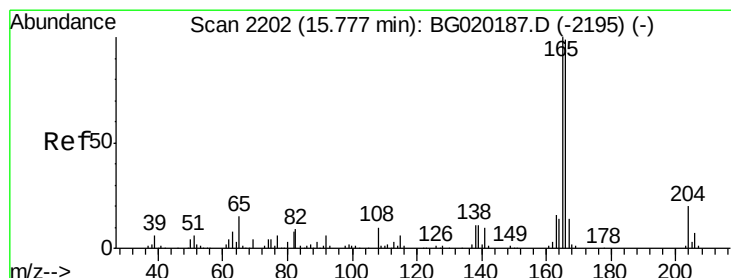
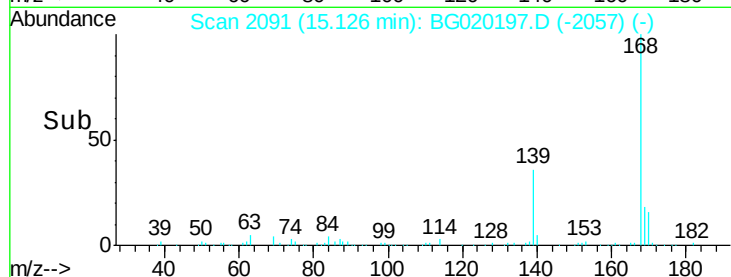
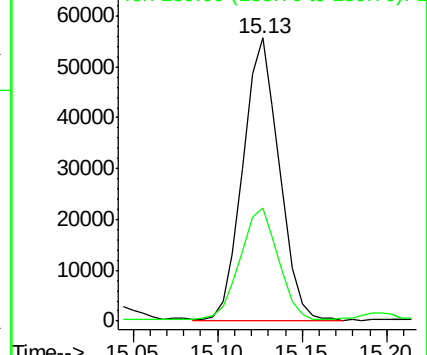
168 100

139 40.1 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 53.03 ng/ul

RT: 15.78 min Scan# 2202

Delta R.T. 0.00 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

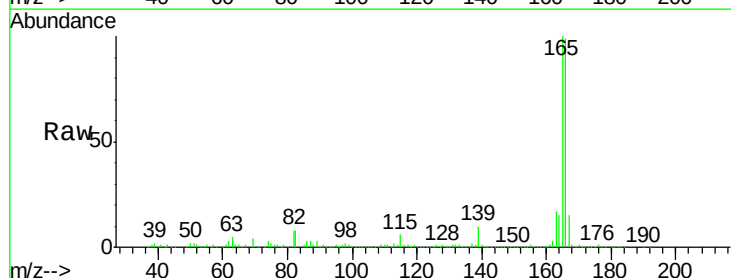
Tgt Ion:166 Resp: 301063

Ion Ratio Lower Upper

166 100

165 101.3 81.4 122.0

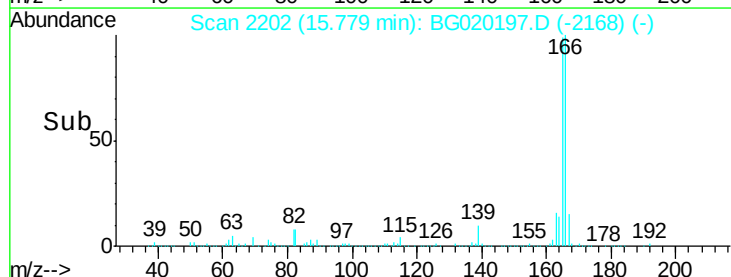
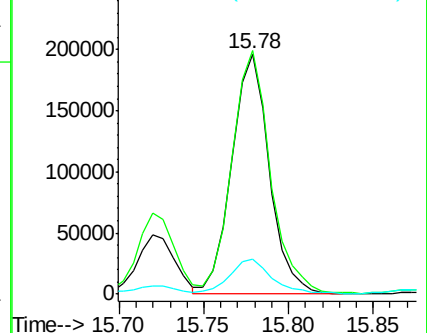
167 14.7 11.2 16.8

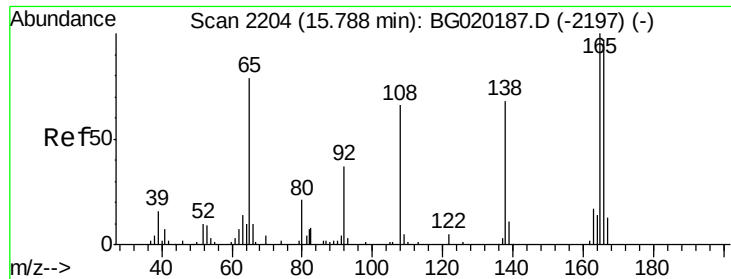


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

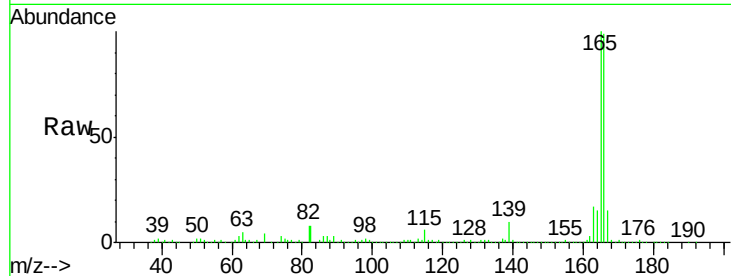




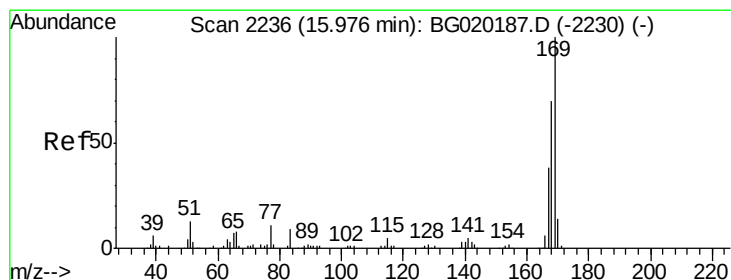
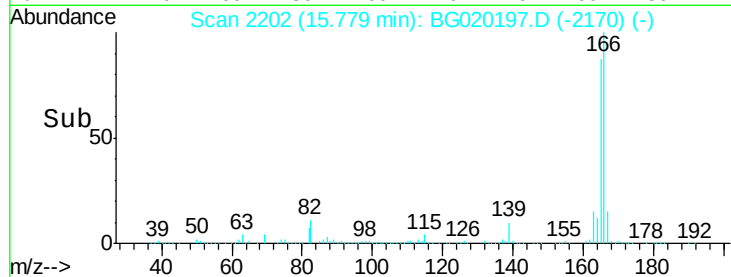
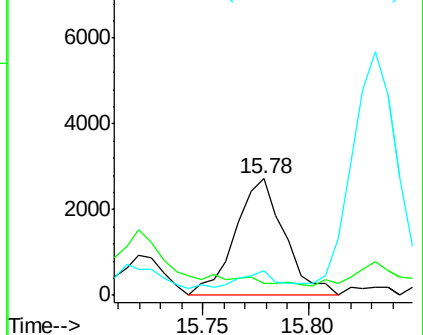
#61
4-Nitroaniline
Concen: 3.47 ng/ul
RT: 15.78 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

Instrument :
BNA_G
ClientSampleId :
G9BQ4

Tgt Ion:138 Resp: 4399
Ion Ratio Lower Upper
138 100
92 10.4 45.2 67.8#
108 20.7 75.4 113.0#

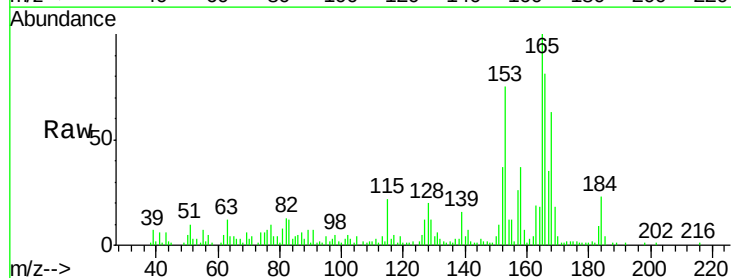


Abundance Ion 138.00 (137.70 to 138.70): E
Ion 92.00 (91.70 to 92.70): BG
Ion 108.00 (107.70 to 108.70): E

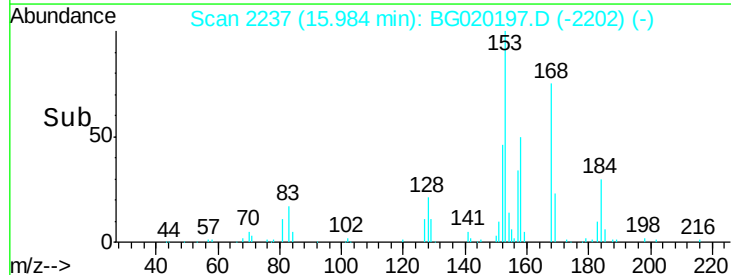
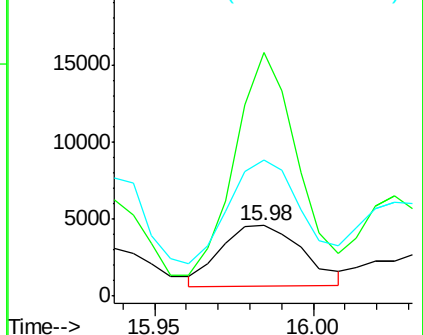


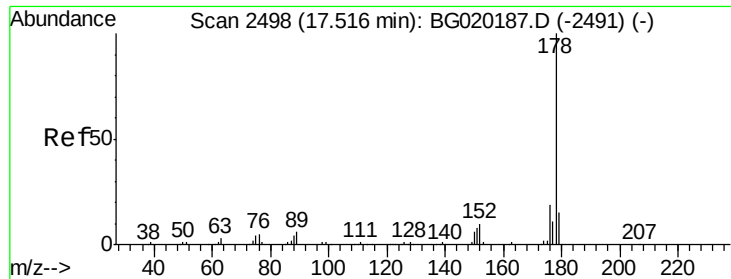
#65
N-Nitrosodiphenylamine
Concen: 1.61 ng/ul
RT: 15.98 min Scan# 2237
Delta R.T. 0.01 min
Lab File: BG020197.D
Acq: 15 Dec 2015 20:02

Tgt Ion:169 Resp: 7049
Ion Ratio Lower Upper
169 100
168 344.5 54.3 81.5#
167 192.7 31.8 47.8#



Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 91.10 ng/ul

RT: 17.52 min Scan# 2498

Delta R.T. 0.00 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

Instrument :

BNA_G

ClientSampleId :

G9BQ4

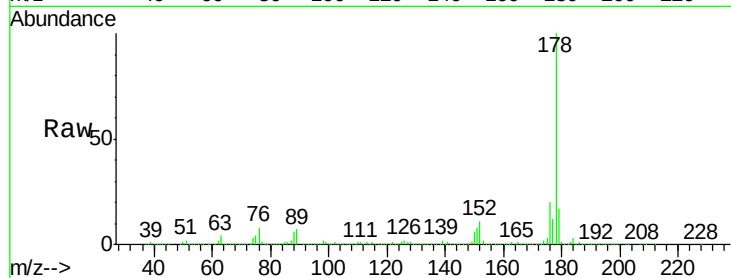
Tgt Ion:178 Resp: 782906

Ion Ratio Lower Upper

178 100

179 16.9 12.9 19.3

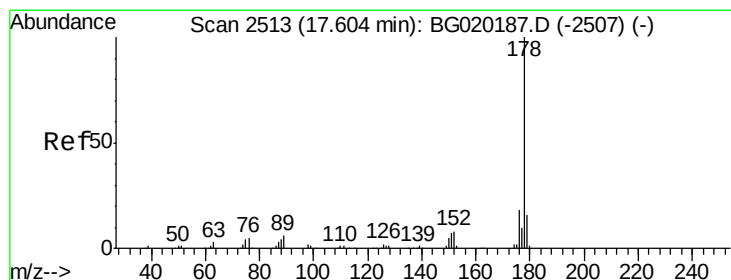
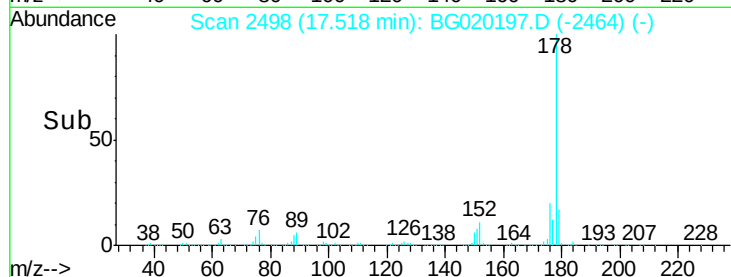
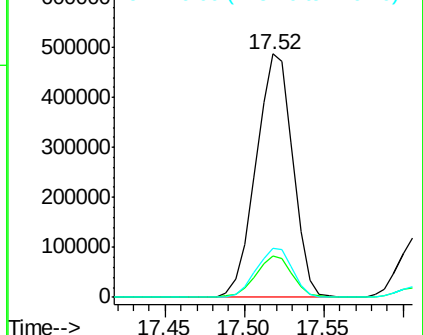
176 20.3 15.3 22.9



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: 19.21 ng/ul

RT: 17.61 min Scan# 2513

Delta R.T. 0.00 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

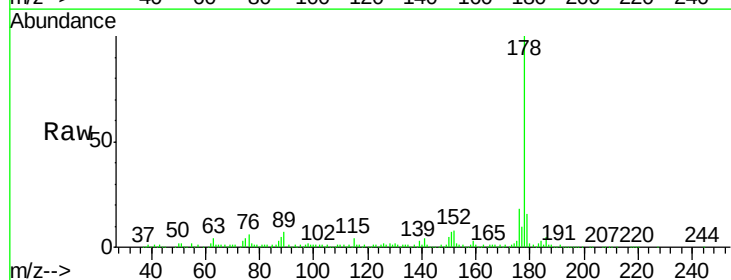
Tgt Ion:178 Resp: 167465

Ion Ratio Lower Upper

178 100

179 16.5 12.3 18.5

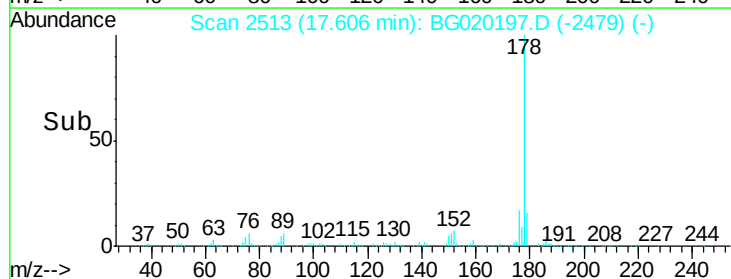
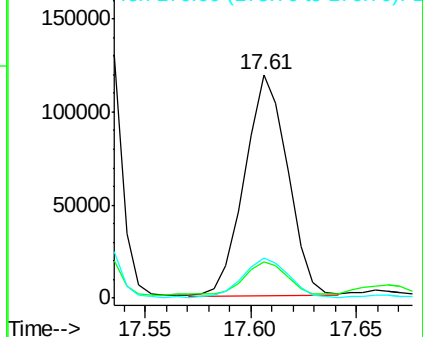
176 17.7 14.3 21.5

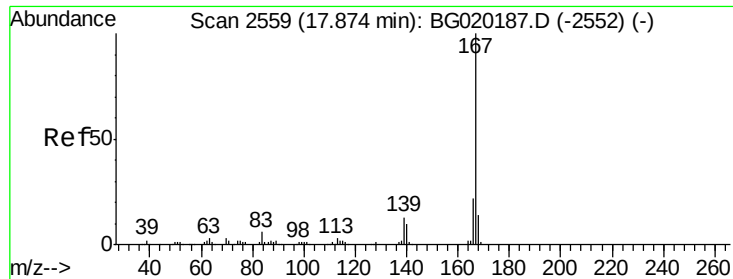


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 20.48 ng/ul

RT: 17.88 min Scan# 2559

Delta R.T. 0.00 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

Instrument :

BNA_G

ClientSampleId :

G9BQ4

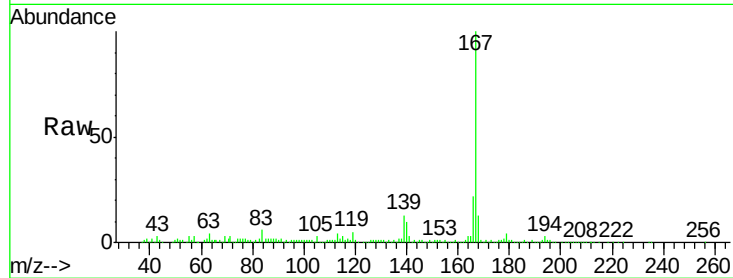
Tgt Ion:167 Resp: 149971

Ion Ratio Lower Upper

167 100

166 22.5 17.0 25.6

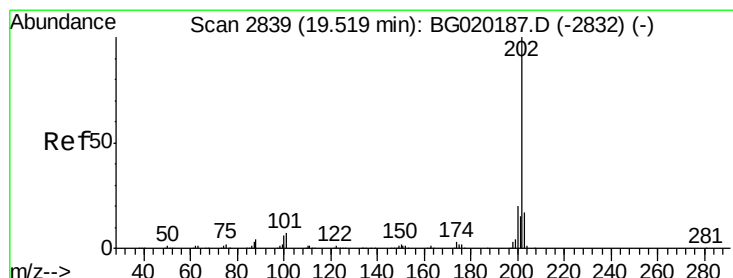
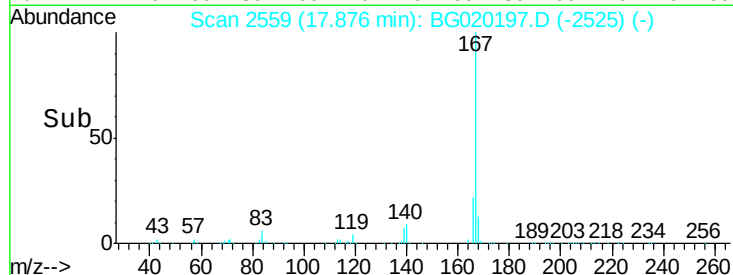
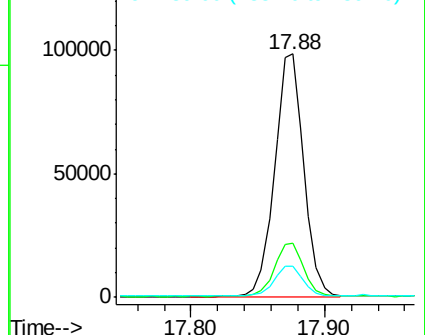
139 12.8 10.1 15.1



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: 5.60 ng/ul

RT: 19.67 min Scan# 2864

Delta R.T. 0.15 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

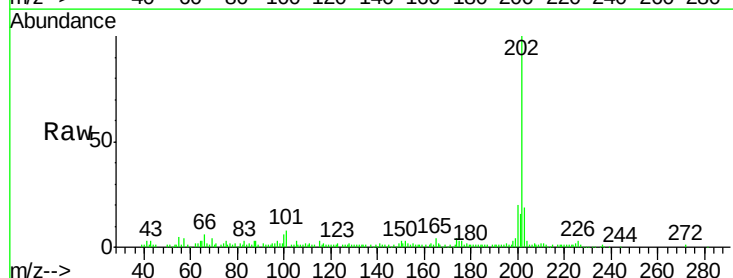
Tgt Ion:202 Resp: 56253

Ion Ratio Lower Upper

202 100

101 7.8 6.2 9.4

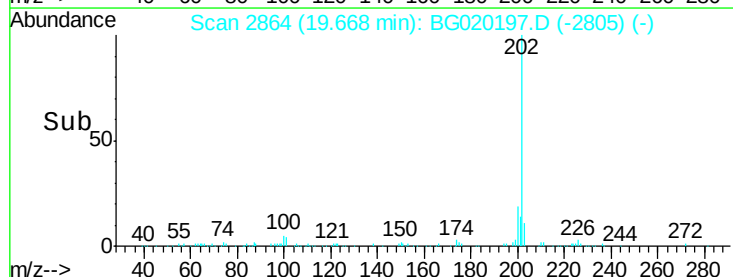
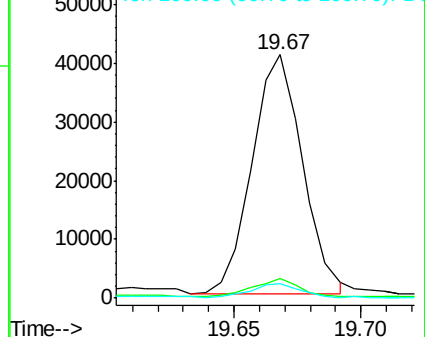
100 5.8 5.1 7.7

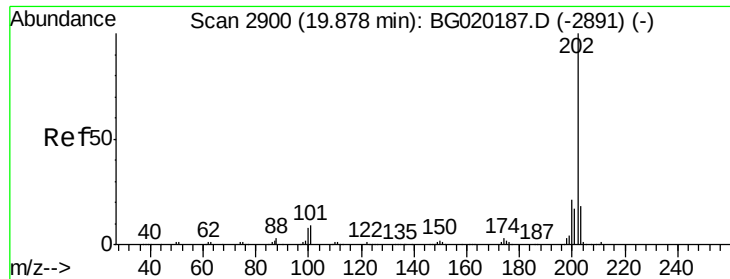


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

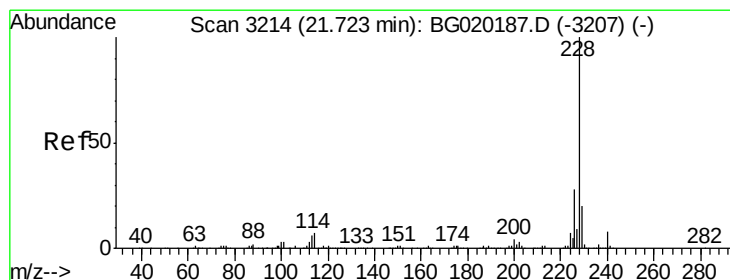
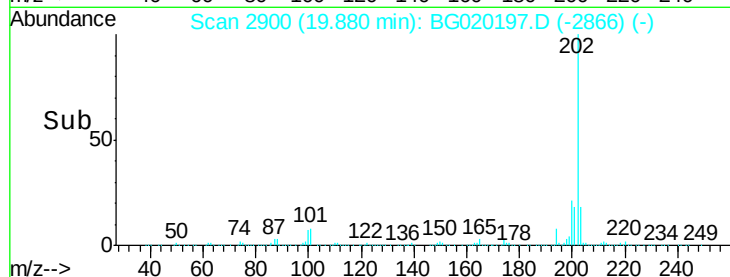
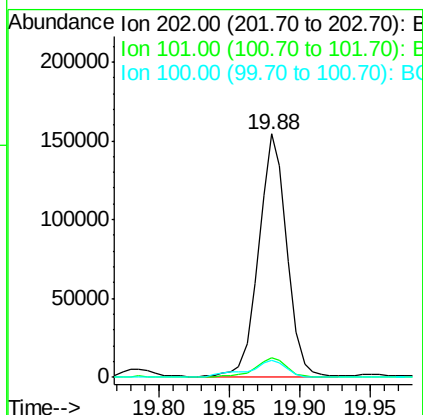
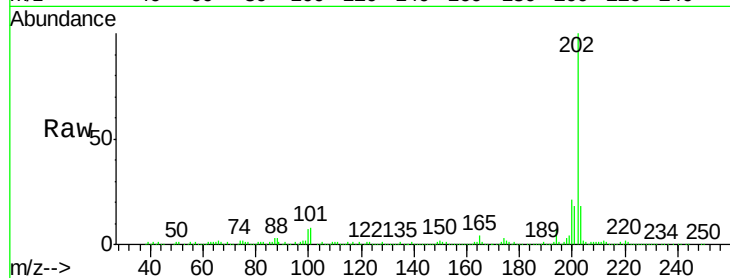




#80
 Pyrene
 Concen: 19.35 ng/ul
 RT: 19.88 min Scan# 2900
 Delta R.T. 0.00 min
 Lab File: BG020197.D
 Acq: 15 Dec 2015 20:02

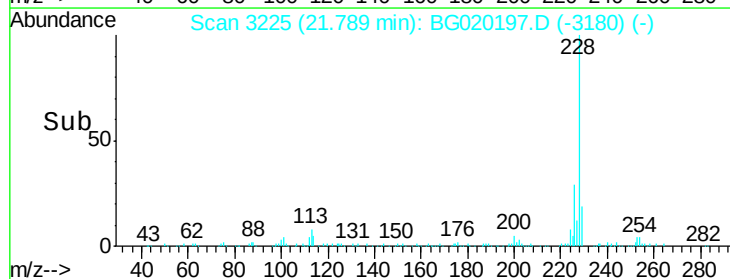
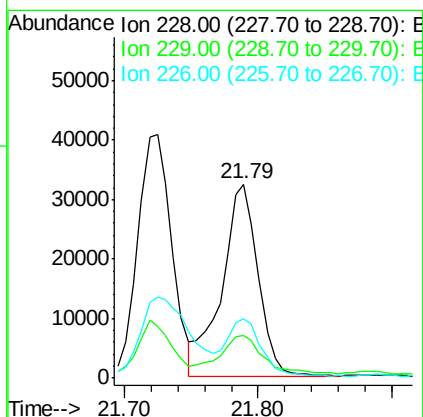
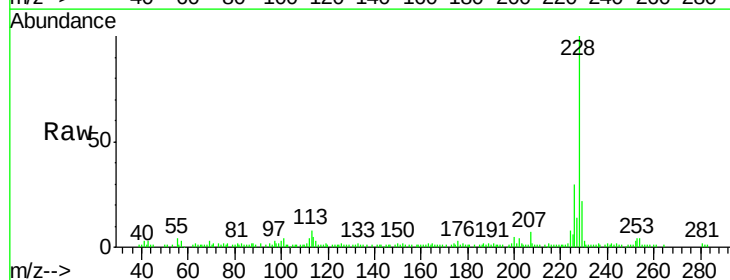
Instrument :
 BNA_G
 ClientSampleId :
 G9BQ4

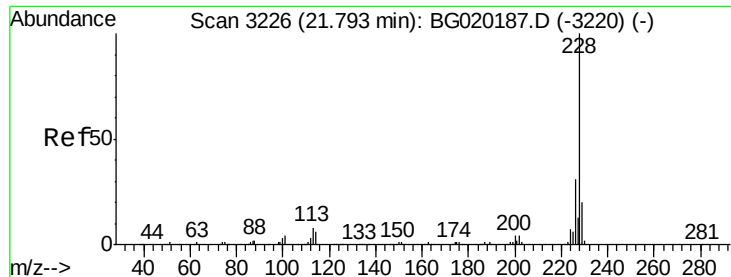
Tgt Ion:	202	Resp:	213987
Ion	Ratio	Lower	Upper
202	100		
101	8.2	7.0	10.4
100	7.0	6.4	9.6



#83
 Benzo(a)anthracene
 Concen: 5.72 ng/ul
 RT: 21.79 min Scan# 3225
 Delta R.T. 0.07 min
 Lab File: BG020197.D
 Acq: 15 Dec 2015 20:02

Tgt Ion:	228	Resp:	60962
Ion	Ratio	Lower	Upper
228	100		
229	21.8	15.8	23.8
226	30.5	21.8	32.6

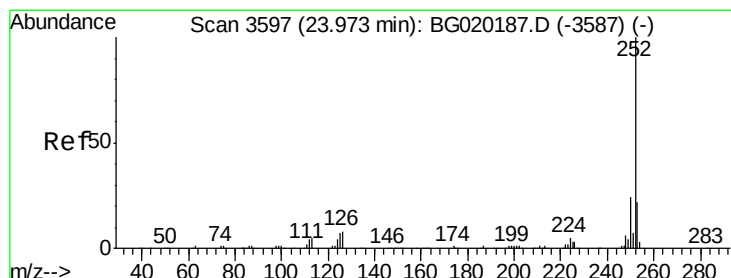
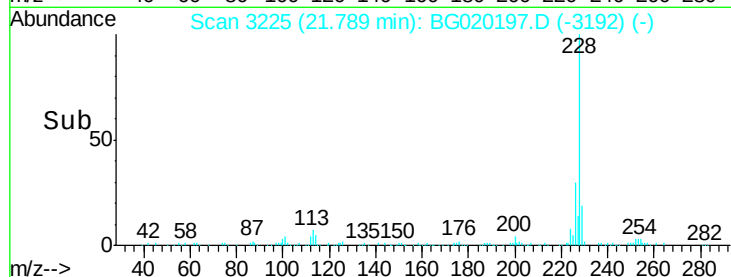
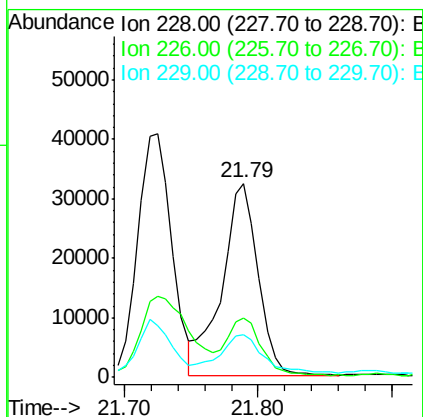
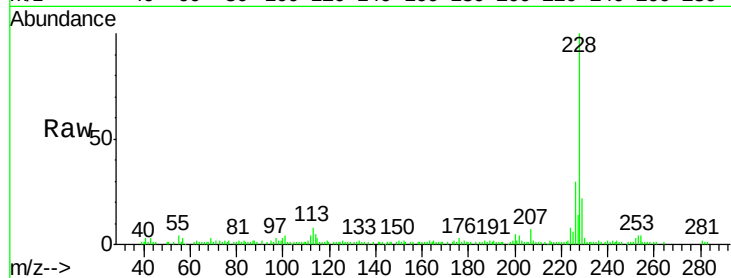




#85
 Chrysene
 Concen: 6.07 ng/ul
 RT: 21.79 min Scan# 3225
 Delta R.T. -0.00 min
 Lab File: BG020197.D
 Acq: 15 Dec 2015 20:02

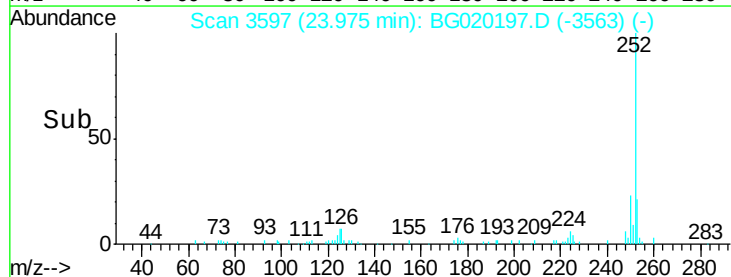
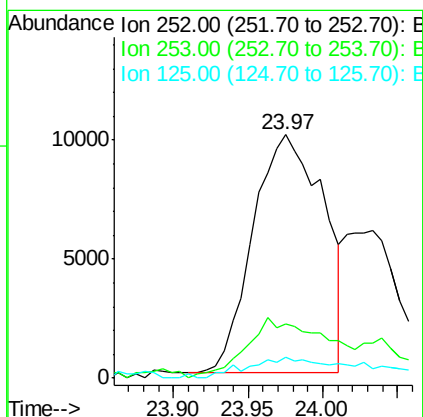
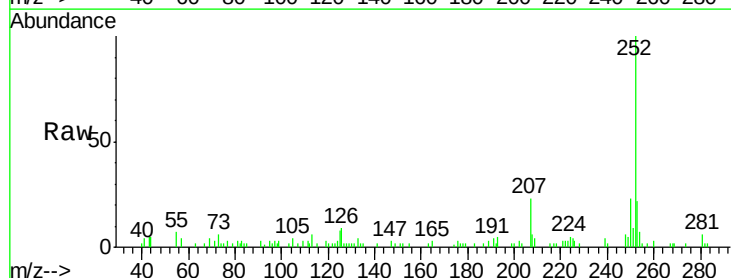
Instrument :
 BNA_G
 ClientSampleId :
 G9BQ4

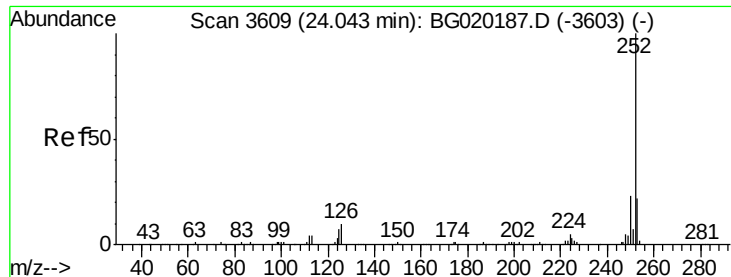
Tgt Ion:	228	Resp:	60909
Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.9	35.9
229	21.8	15.6	23.4



#88
 Benzo(b)fluoranthene
 Concen: 3.12 ng/ul
 RT: 23.97 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: BG020197.D
 Acq: 15 Dec 2015 20:02

Tgt Ion:	252	Resp:	32855
Ion	Ratio	Lower	Upper
252	100		
253	22.4	16.7	25.1
125	8.5	6.2	9.2





#89

Benzo(k)fluoranthene

Concen: 3.25 ng/ul

RT: 23.97 min Scan# 3597

Delta R.T. -0.07 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

Instrument :

BNA_G

ClientSampleId :

G9BQ4

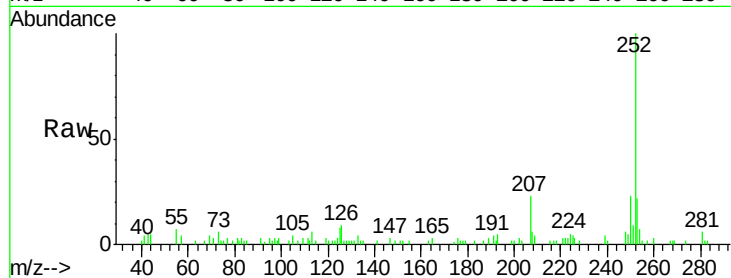
Tgt Ion:252 Resp: 32855

Ion Ratio Lower Upper

252 100

253 22.4 17.9 26.9

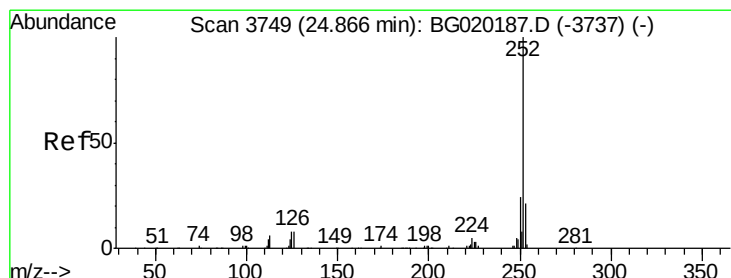
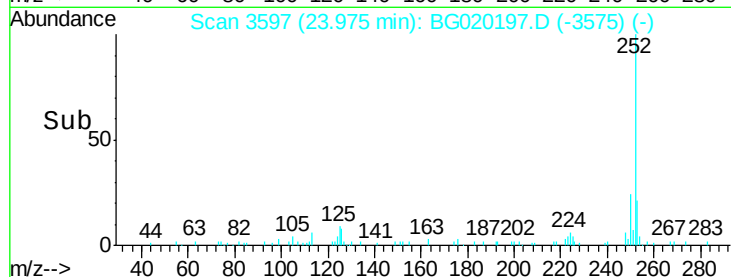
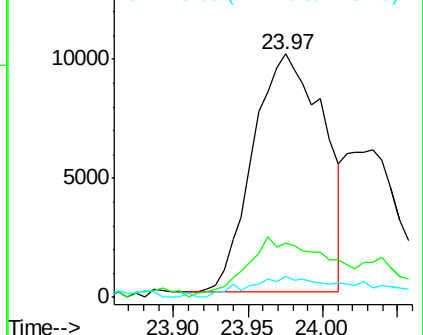
125 8.5 5.8 8.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(a)pyrene

Concen: 1.83 ng/ul

RT: 24.71 min Scan# 3722

Delta R.T. -0.16 min

Lab File: BG020197.D

Acq: 15 Dec 2015 20:02

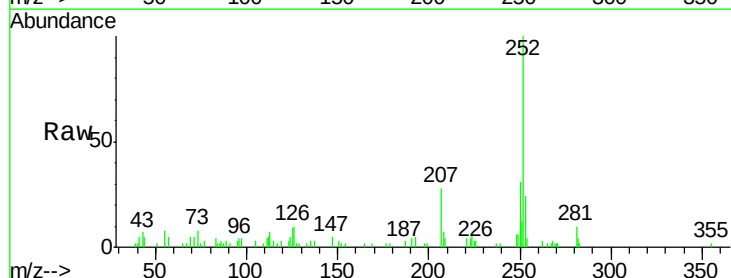
Tgt Ion:252 Resp: 18276

Ion Ratio Lower Upper

252 100

253 23.7 17.0 25.4

125 8.6 6.2 9.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

