

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051516\
 Data File : BG021894.D
 Acq On : 15 May 2016 15:34
 Operator : UM/SJ
 Sample : H3096-06
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XG1

Quant Time: May 16 01:29:06 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 16 01:27:47 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	60653	20.00	ng/ul	0.00
18) Naphthalene-d8	10.99	136	316721	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.79	164	184075	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.54	188	376088	20.00	ng/ul	0.00
76) Chrysene-d12	21.83	240	401734	20.00	ng/ul	0.02
84) Perylene-d12	24.95	264	417666	20.00	ng/ul	-0.19

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.54	96	3888	3.09	ng/uL	0.00
5) Phenol-d5	7.31	99	97128	21.58	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.48	67	48028	21.52	ng/ul	0.00
9) 2-Chlorophenol-d4	7.69	132	92468	26.47	ng/ul	0.00
13) 4-Methylphenol-d8	8.87	113	60061	15.89	ng/ul	0.00
19) Nitrobenzene-d5	9.34	128	49904	23.97	ng/ul	0.00
22) 2-Nitrophenol-d4	10.06	143	54326	41.30	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.73	165	204	0.05	ng/ul	0.14
29) 4-Chloroaniline-d4	11.12	131	91632	22.87	ng/ul	0.00
44) Dimethylphthalate-d6	14.19	166	314107	24.29	ng/ul	0.00
47) Acenaphthylene-d8	14.48	160	435133	23.70	ng/ul	0.00
52) 4-Nitrophenol-d4	14.99	143	24744	11.16	ng/ul	0.00
58) Fluorene-d10	15.78	176	299920	22.03	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.90	200	29759	28.57	ng/ul	0.01
71) Anthracene-d10	17.64	188	413449	22.58	ng/ul	0.01
77) Pyrene-d10	19.92	212	457210	24.31	ng/ul	0.01
88) Benzo(a)pyrene-d12	24.95	264	417666	21.05	ng/ul	0.04

Target Compounds

					Ovalue
4) Benzaldehyde	7.69	77	1198	2.45	ng/ul 94
6) Phenol	7.34	94	6343	1.33	ng/ul# 73
11) 2-Methylphenol	8.60	108	3913	1.04	ng/ul 86
16) 4-Methylphenol	8.93	108	12377	2.98	ng/ul 93
28) Naphthalene	11.03	128	1011071	63.66	ng/ul 98
34) 2-Methylnaphthalene	12.63	142	302773	25.89	ng/ul 97
35) 1-Methylnaphthalene	12.84	142	189318	16.32	ng/ul# 97
41) 1,1'-Biphenyl	13.62	154	100336	7.00	ng/ul 94
45) Dimethylphthalate	14.24	163	157442	11.95	ng/ul 98
48) Acenaphthylene	14.52	152	24704	1.31	ng/ul# 85
50) Acenaphthene	14.85	153	713373	54.59	ng/ul 95
59) Fluorene	15.83	166	1065968	70.35	ng/ul 97
61) 4-Nitroaniline	15.83	138	11387	3.38	ng/ul# 3
69) Pentachlorophenol	17.19	266	4383	2.53	ng/ul 94
70) Phenanthrene	17.60	178	4717527	229.44	ng/ul# 30
72) Anthracene	17.68	178	1964826	94.08	ng/ul# 87
73) Carbazole	17.94	167	1423518	78.61	ng/ul 95
75) Fluoranthene	19.60	202	4634547	198.39	ng/ul# 49
81) Benzo(a)anthracene	21.82	228	3128303	139.93	ng/ul# 77
82) Bis(2-ethylhexyl)phthalate	21.69	149	14361	1.71	ng/ul# 79
83) Chrysene	21.89	228	2662945	120.42	ng/ul# 76
89) Benzo(a)pyrene	24.88	252	1776375	74.64	ng/ul# 85
91) Dibenzo(a,h)anthracene	28.88	278	30986	1.32	ng/ul 93

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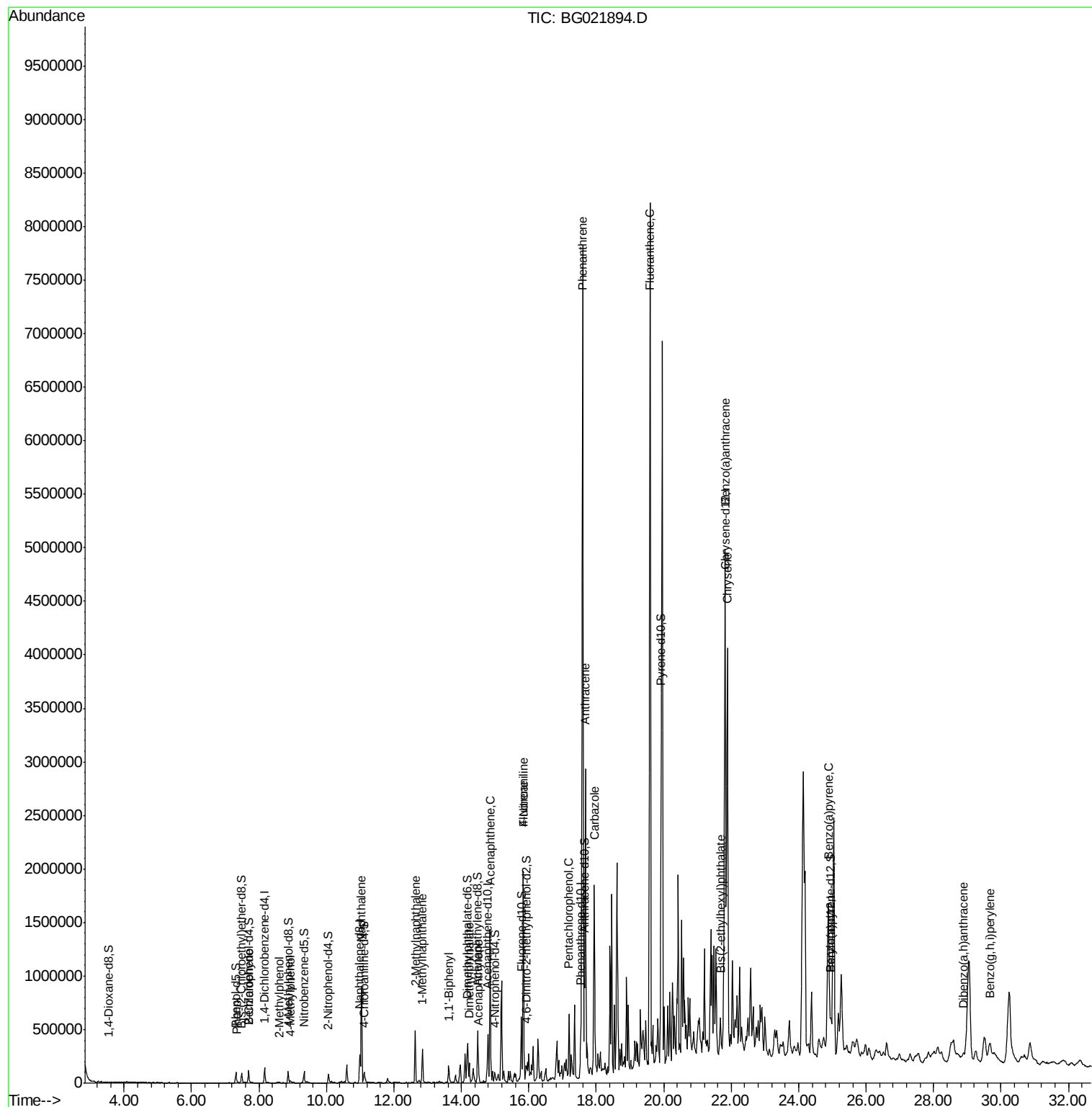
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Benzo(q,h,i)perylene	29.68	276	77797	3.34	ng/ul#	20

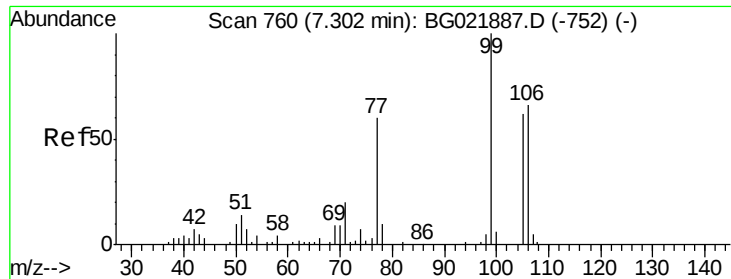
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 2.45 ng/ul

RT: 7.69 min Scan# 826

Delta R.T. 0.39 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

Instrument :

BNA_G

ClientSampleId :

D9XG1

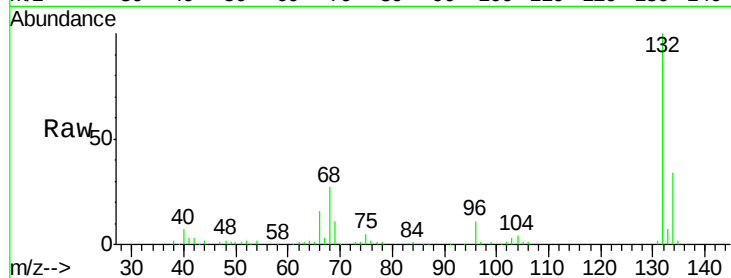
Tot Ion: 77 Resp: 1198

Ion Ratio Lower Upper

77 100

105 89.4 68.5 102.7

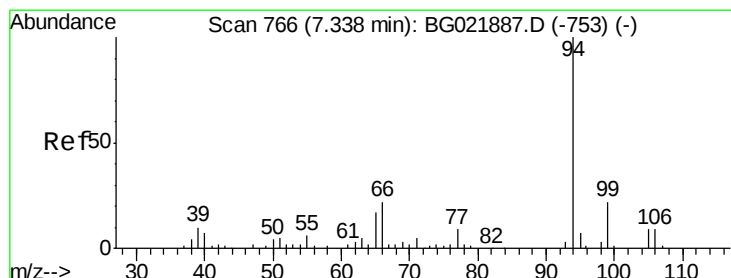
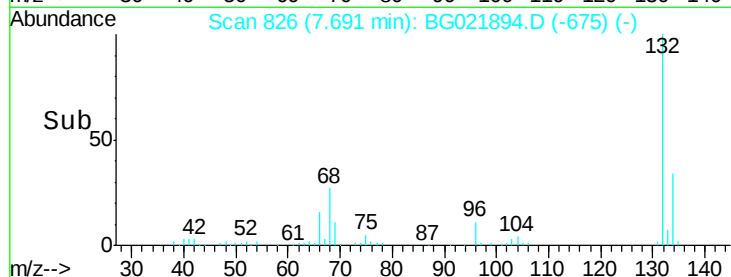
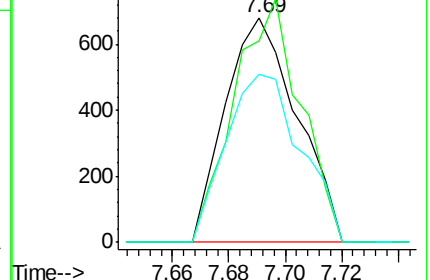
106 74.9 65.0 97.4



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: 1.33 ng/ul

RT: 7.34 min Scan# 766

Delta R.T. 0.00 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

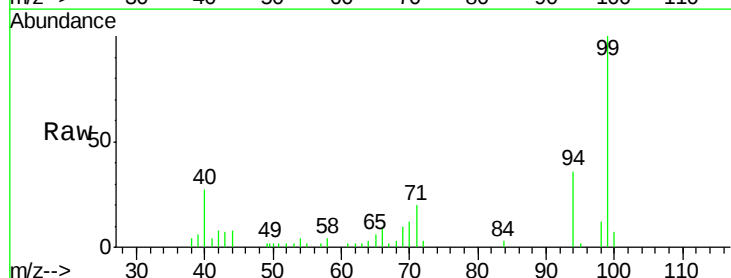
Tgt Ion: 94 Resp: 6343

Ion Ratio Lower Upper

94 100

65 16.1 26.1 39.1#

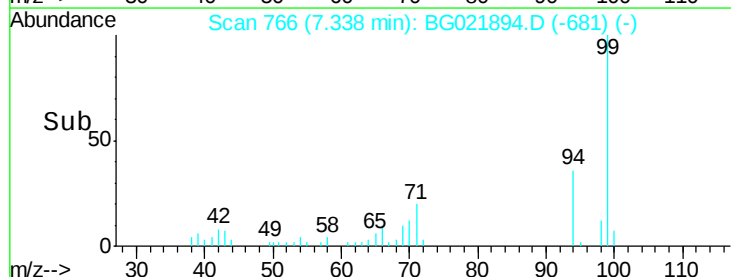
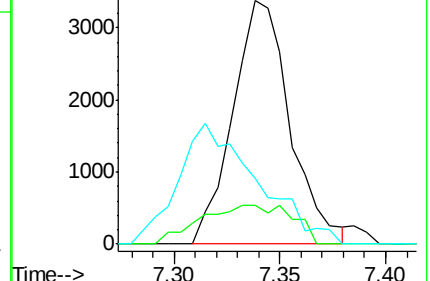
66 26.9 35.0 52.4#

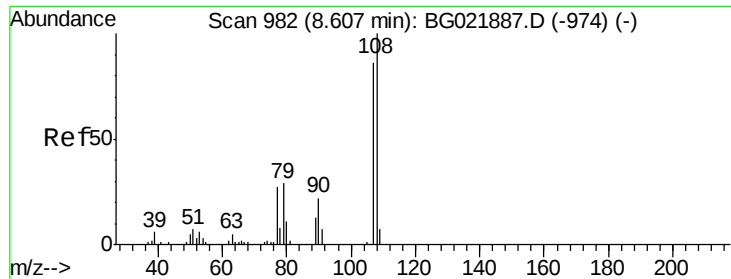


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC





#11

2-Methylphenol

Concen: 1.04 ng/ul

RT: 8.60 min Scan# 981

Delta R.T. -0.01 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

Instrument :

BNA_G

ClientSampleId :

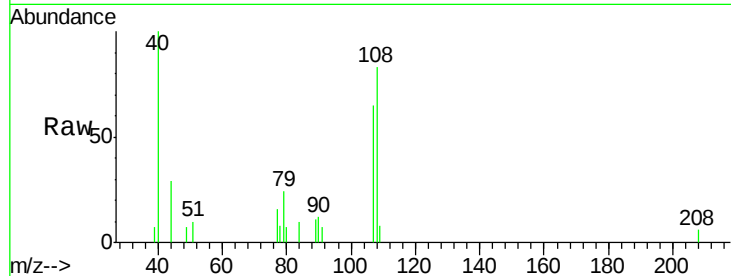
D9XG1

Tot Ion:108 Resp: 3913

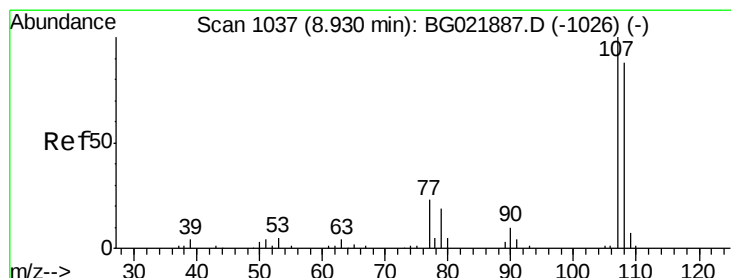
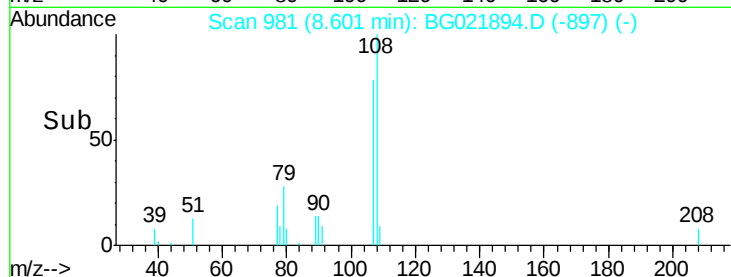
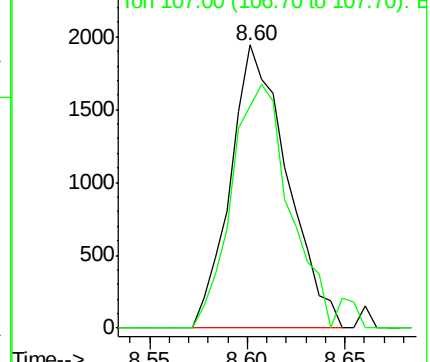
Ion Ratio Lower Upper

108 100

107 78.4 73.4 110.0



Abundance Ion 108.00 (107.70 to 108.70): E



#16

4-Methylphenol

Concen: 2.98 ng/ul

RT: 8.93 min Scan# 1037

Delta R.T. 0.00 min

Lab File: BG021894.D

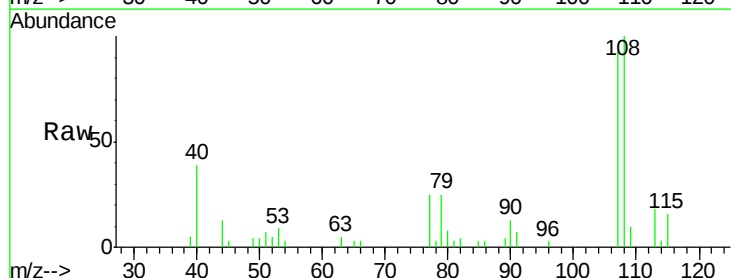
Acq: 15 May 2016 15:34

Tgt Ion:108 Resp: 12377

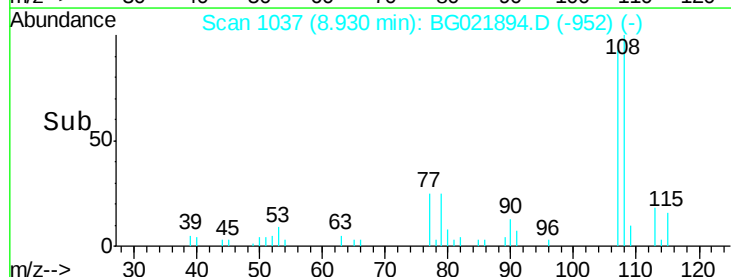
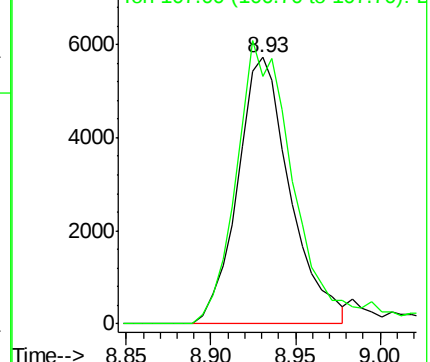
Ion Ratio Lower Upper

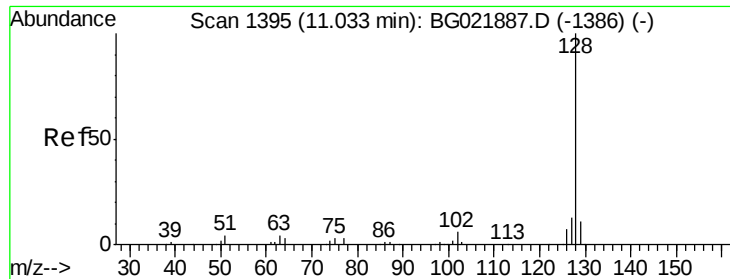
108 100

107 92.9 79.8 119.6



Abundance Ion 108.00 (107.70 to 108.70): E





#28

Naphthalene

Concen: 63.66 ng/ul

RT: 11.03 min Scan# 1395

Delta R.T. 0.00 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

Instrument :

BNA_G

ClientSampleId :

D9XG1

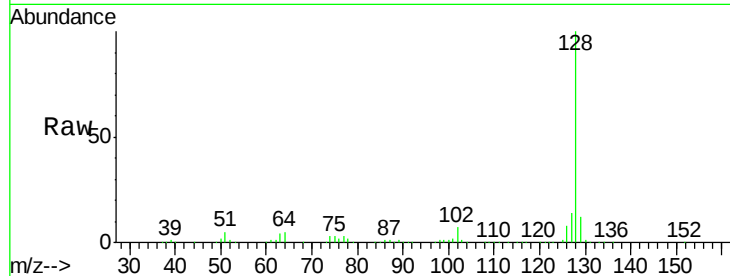
Tot Ion:128 Resp: 1011071

Ion Ratio Lower Upper

128 100

129 11.9 8.3 12.5

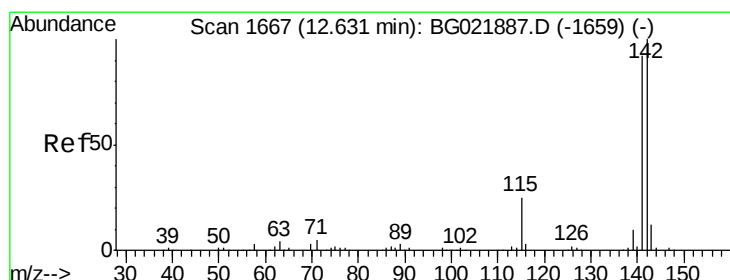
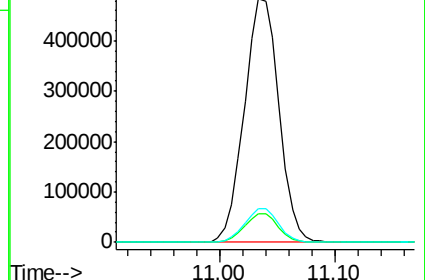
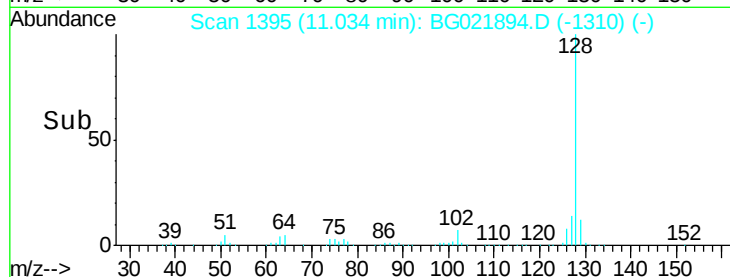
127 13.9 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 25.89 ng/ul

RT: 12.63 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BG021894.D

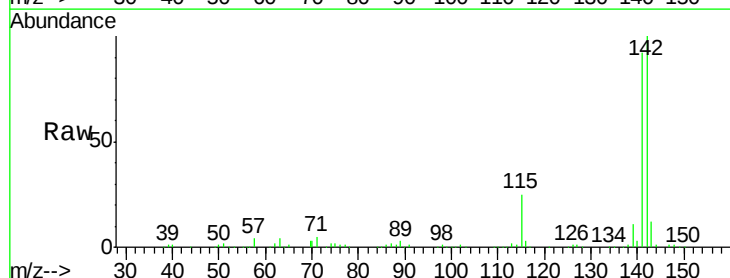
Acq: 15 May 2016 15:34

Tgt Ion:142 Resp: 302773

Ion Ratio Lower Upper

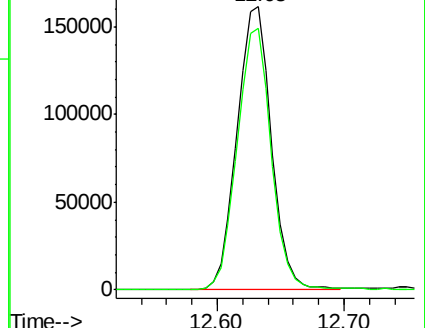
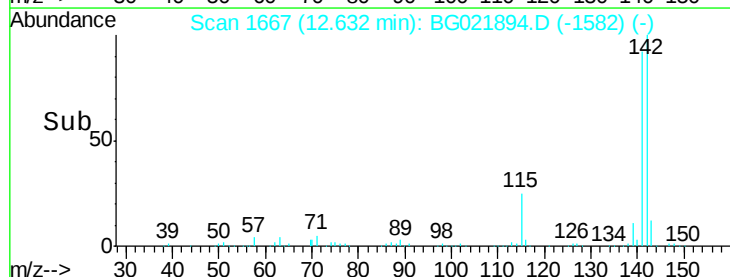
142 100

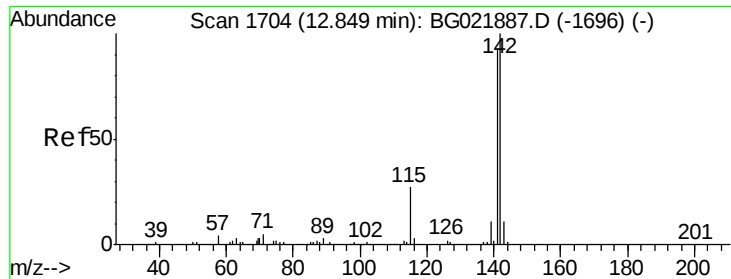
141 92.3 71.3 106.9



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

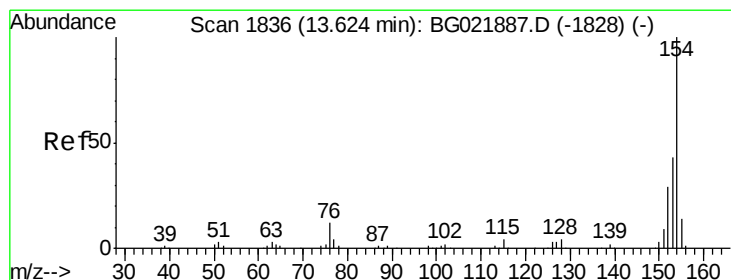
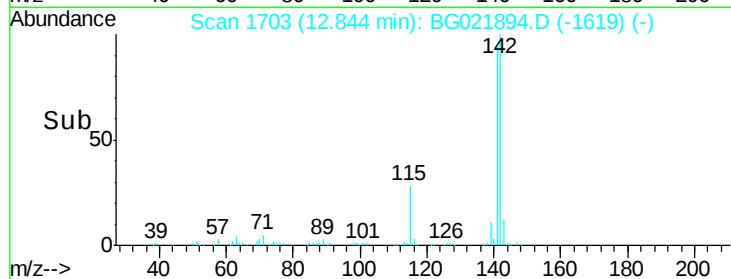
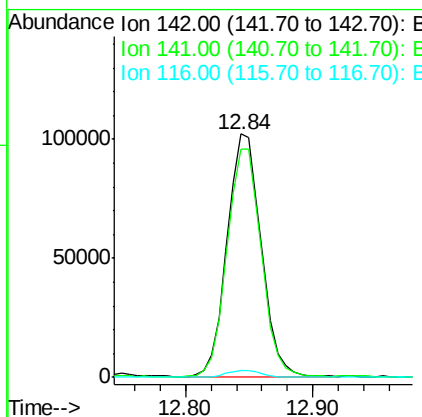
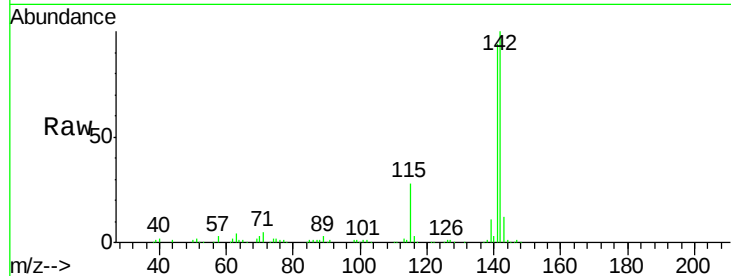




#35
 1-Methylnaphthalene
 Concen: 16.32 ng/ul
 RT: 12.84 min Scan# 1703
 Delta R.T. -0.01 min
 Lab File: BG021894.D
 Acq: 15 May 2016 15:34

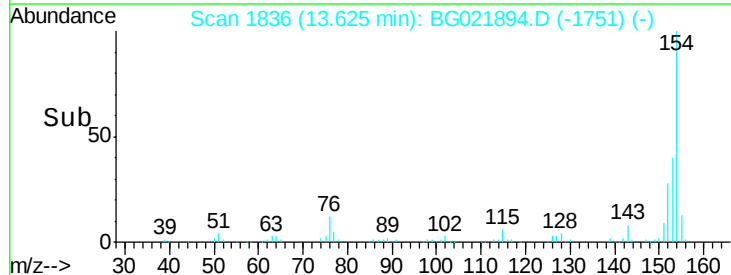
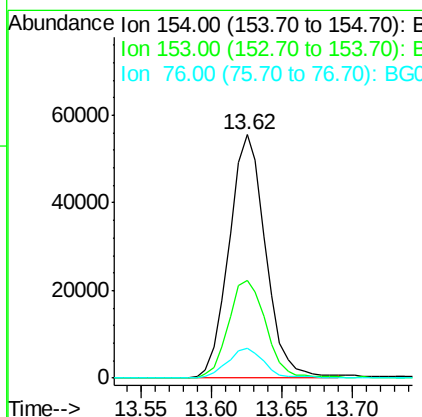
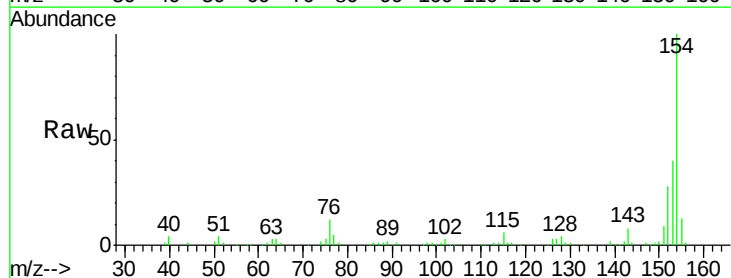
Instrument :
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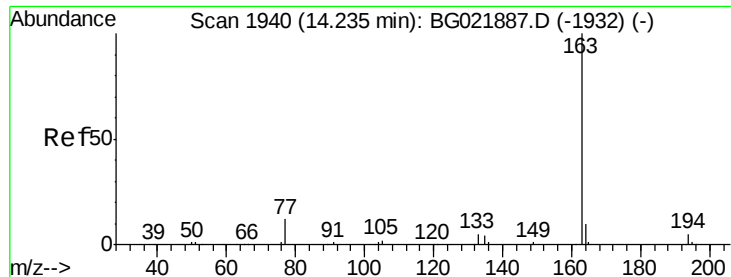
Tot Ion:142 Resp: 189318
 Ion Ratio Lower Upper
 142 100
 141 93.6 77.0 115.4
 116 3.0 4.2 6.4#



#41
 1,1'-Biphenyl
 Concen: 7.00 ng/ul
 RT: 13.62 min Scan# 1836
 Delta R.T. 0.00 min
 Lab File: BG021894.D
 Acq: 15 May 2016 15:34

Tgt Ion:154 Resp: 100336
 Ion Ratio Lower Upper
 154 100
 153 40.2 35.4 53.2
 76 12.4 12.1 18.1





#45

Dimethylphthalate

Concen: 11.95 ng/ul

RT: 14.24 min Scan# 1940

Delta R.T. 0.00 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

Instrument :

BNA_G

ClientSampleId :

D9XG1

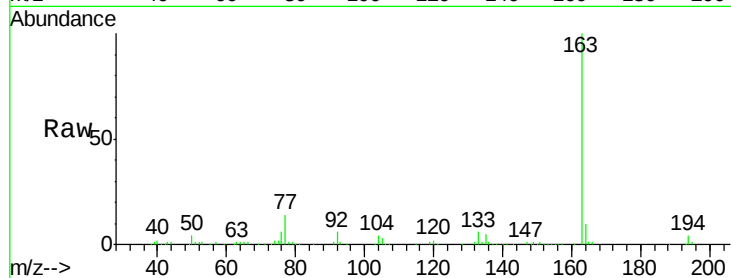
Tot Ion:163 Resp: 157442

Ion Ratio Lower Upper

163 100

194 4.2 3.9 5.9

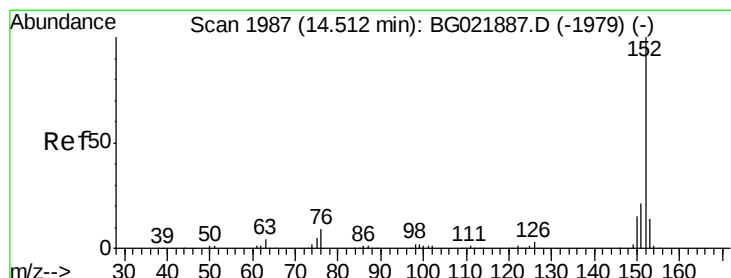
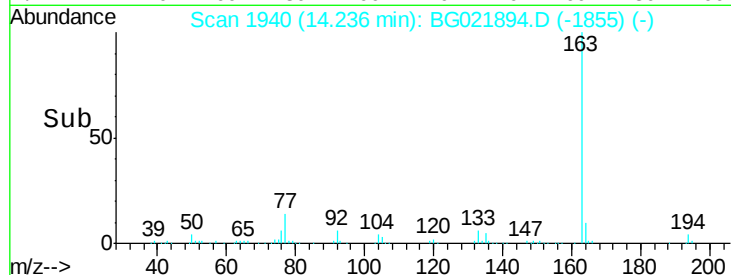
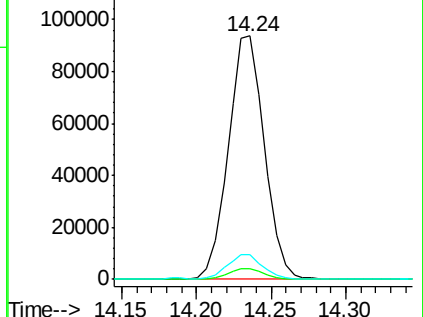
164 10.0 8.7 13.1



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: 1.31 ng/ul

RT: 14.52 min Scan# 1988

Delta R.T. 0.01 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

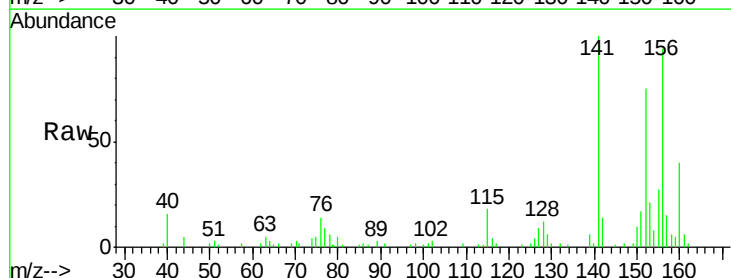
Tgt Ion:152 Resp: 24704

Ion Ratio Lower Upper

152 100

151 22.5 17.3 25.9

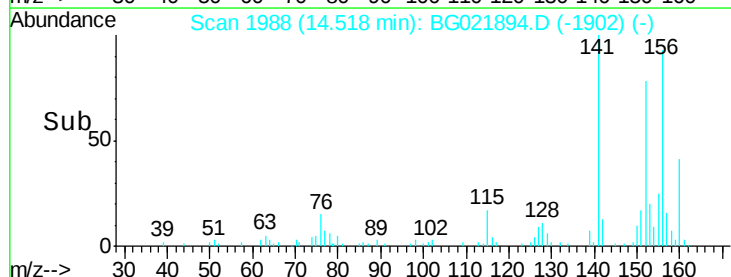
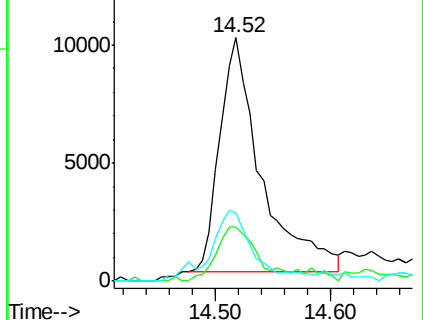
153 27.8 11.1 16.7#

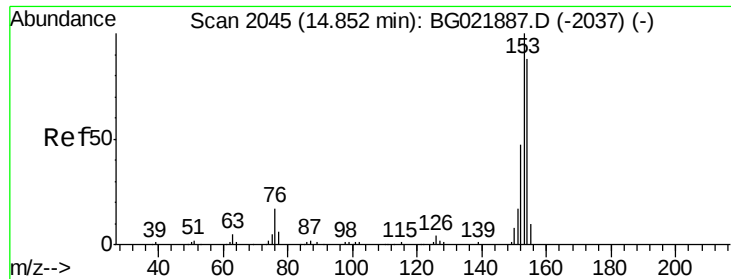


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#50

Acenaphthene

Concen: 54.59 ng/ul

RT: 14.85 min Scan# 2045

Delta R.T. 0.00 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

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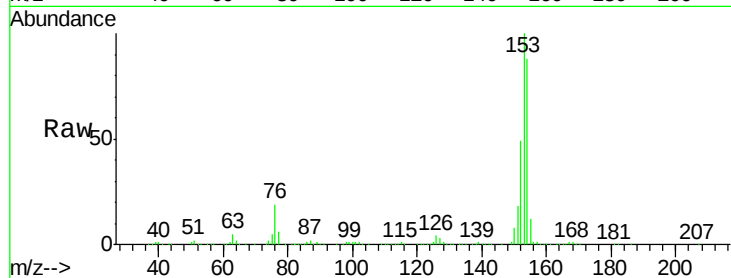
Tot Ion:153 Resp: 713373

Ion Ratio Lower Upper

153 100

152 49.2 36.5 54.7

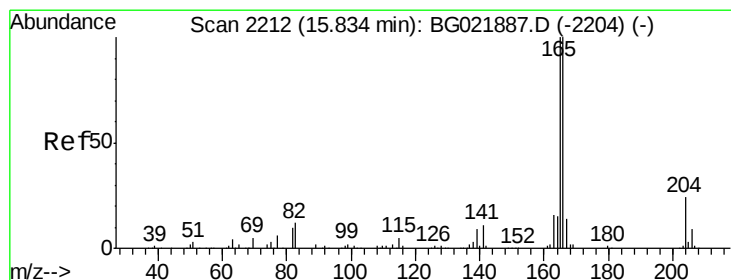
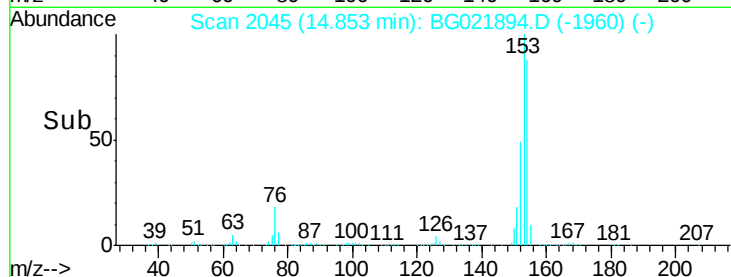
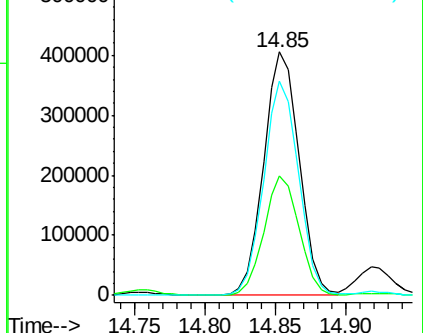
154 88.0 67.3 100.9



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



#59

Fluorene

Concen: 70.35 ng/ul

RT: 15.83 min Scan# 2212

Delta R.T. 0.00 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

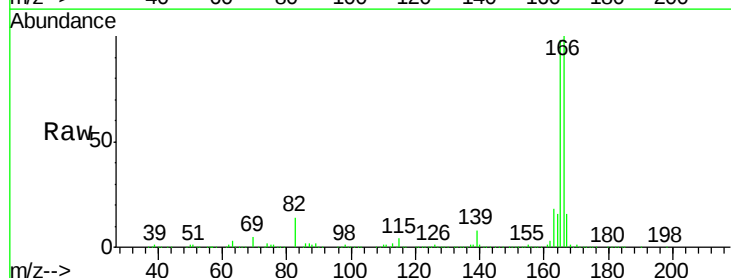
Tgt Ion:166 Resp: 1065968

Ion Ratio Lower Upper

166 100

165 98.2 81.1 121.7

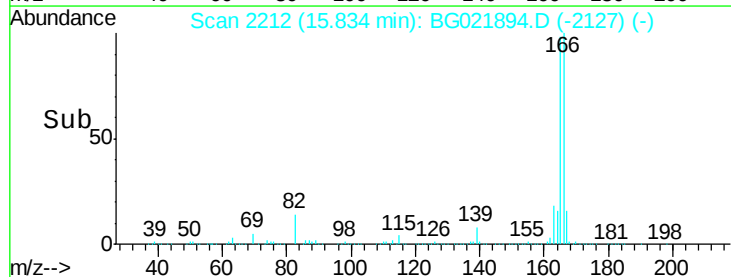
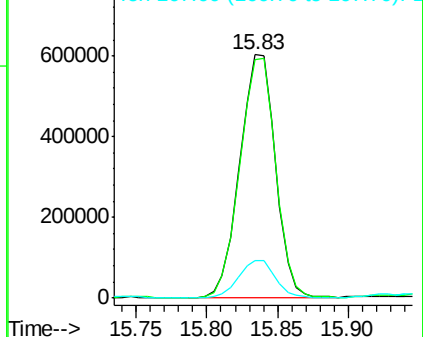
167 15.6 10.6 16.0

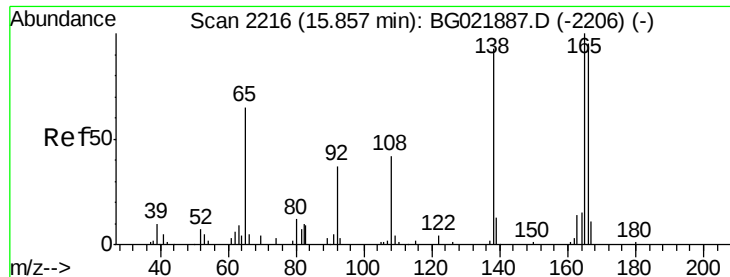


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

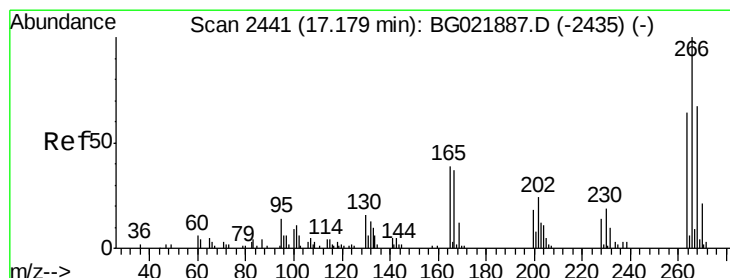
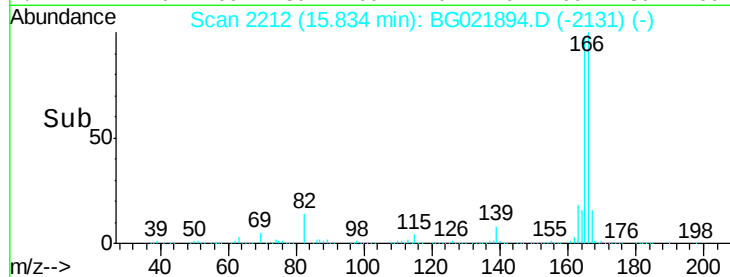
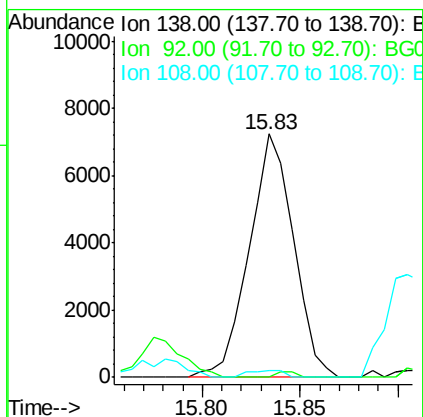
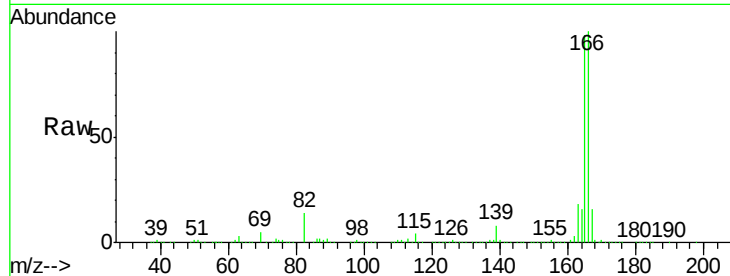




#61
4-Nitroaniline
Concen: 3.38 ng/ul
RT: 15.83 min Scan# 2212
Delta R.T. -0.02 min
Lab File: BG021894.D
Acq: 15 May 2016 15:34

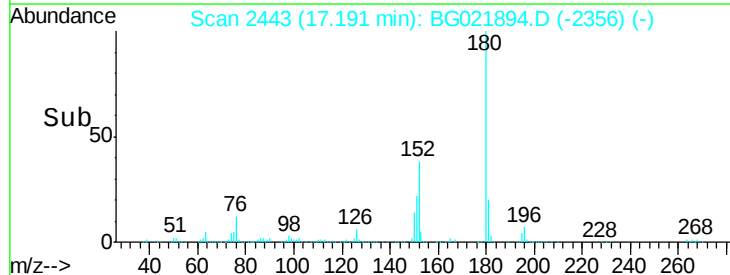
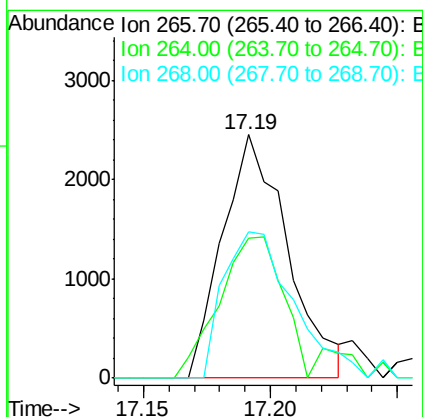
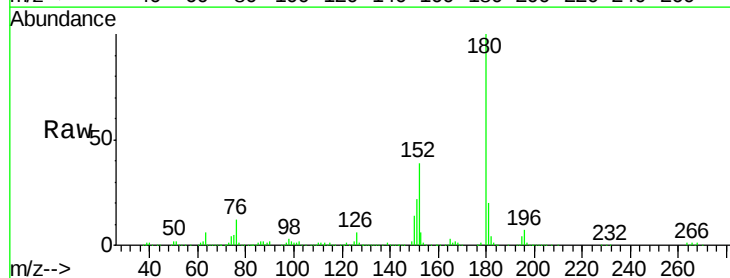
Instrument :
BNA_G
ClientSampled :
D9XG1

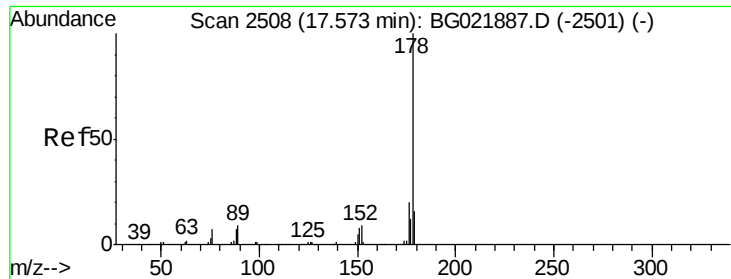
Tot Ion:138 Resp: 11387
Ion Ratio Lower Upper
138 100
92 0.0 51.9 77.9#
108 3.0 95.3 142.9#



#69
Pentachlorophenol
Concen: 2.53 ng/ul
RT: 17.19 min Scan# 2443
Delta R.T. 0.01 min
Lab File: BG021894.D
Acq: 15 May 2016 15:34

Tgt Ion:266 Resp: 4383
Ion Ratio Lower Upper
266 100
264 64.7 56.7 85.1
268 60.2 50.6 76.0





#70

Phenanthrene

Concen: 229.44 ng/ul

RT: 17.60 min Scan# 2512

Delta R.T. 0.02 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

Instrument :

BNA_G

ClientSampleId :

D9XG1

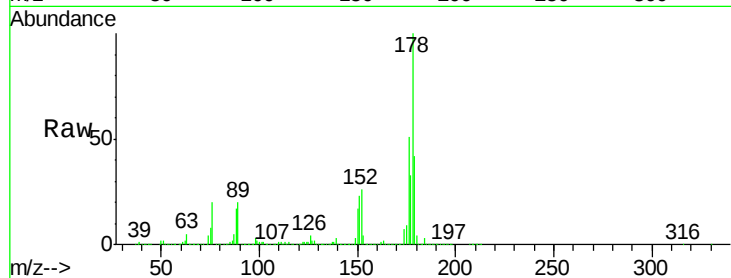
Tot Ion:178 Resp: 4717527

Ion Ratio Lower Upper

178 100

179 42.0 11.8 17.8#

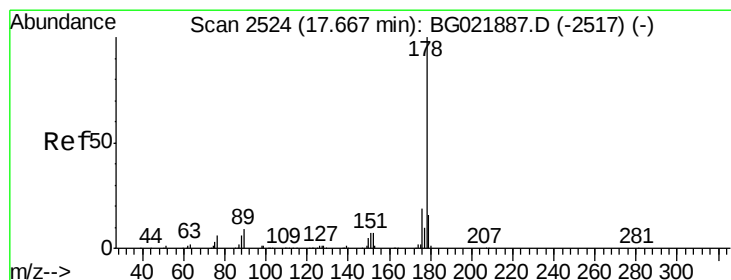
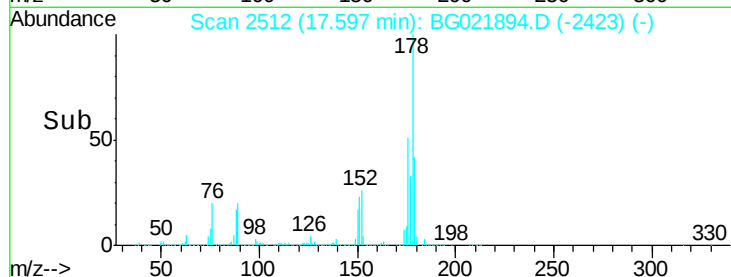
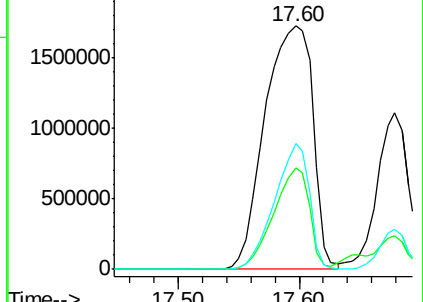
176 51.5 14.8 22.2#



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: 94.08 ng/ul

RT: 17.68 min Scan# 2526

Delta R.T. 0.01 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

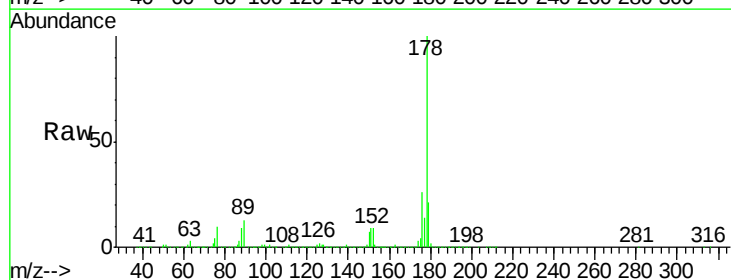
Tgt Ion:178 Resp: 1964826

Ion Ratio Lower Upper

178 100

179 21.4 12.9 19.3#

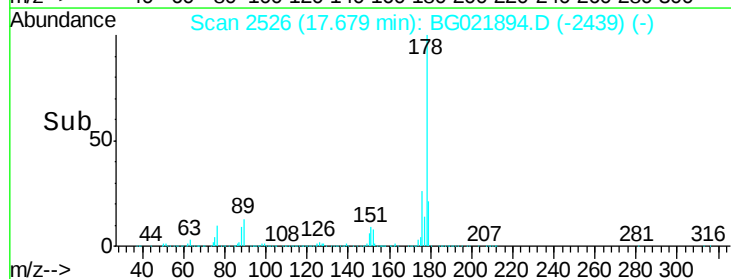
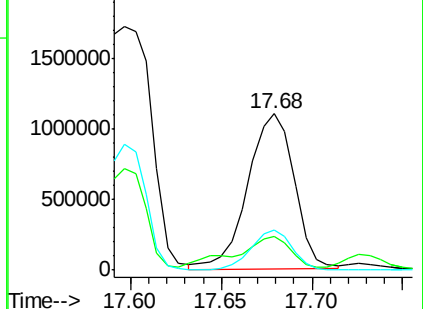
176 25.8 15.6 23.4#

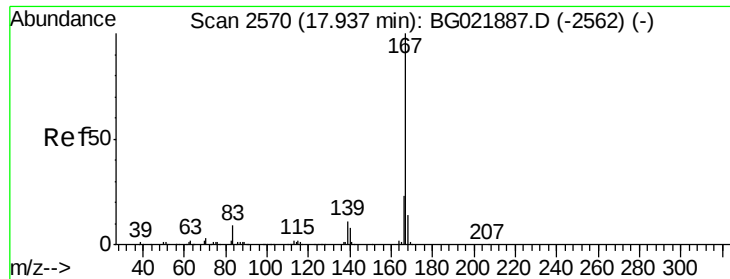


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

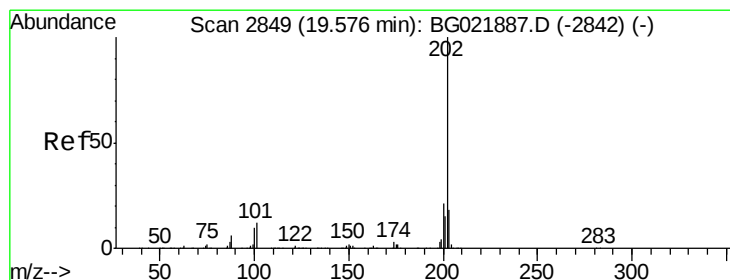
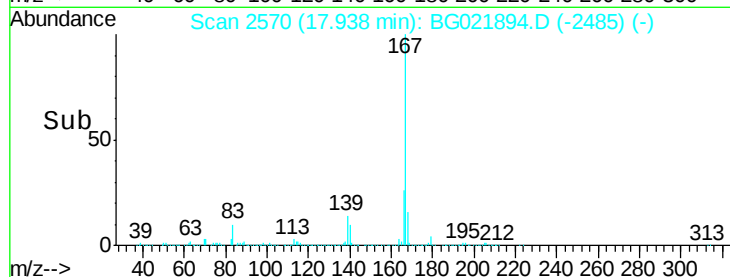
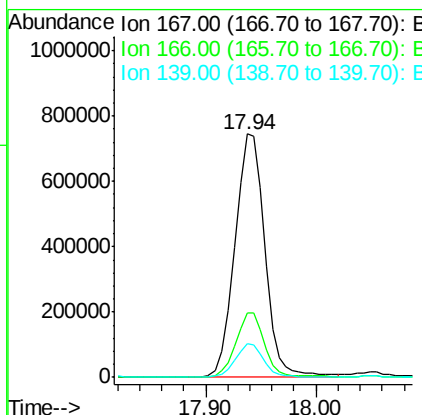
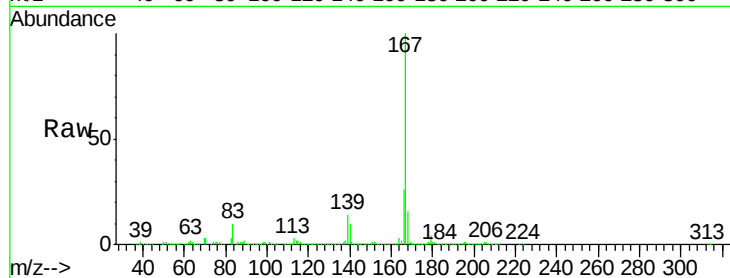




#73
 Carbazole
 Concen: 78.61 ng/ul
 RT: 17.94 min Scan# 2570
 Delta R.T. 0.00 min
 Lab File: BG021894.D
 Acq: 15 May 2016 15:34

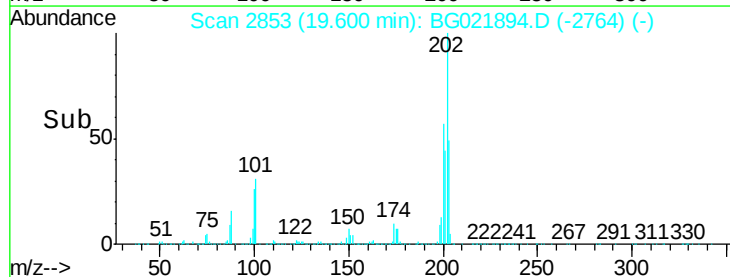
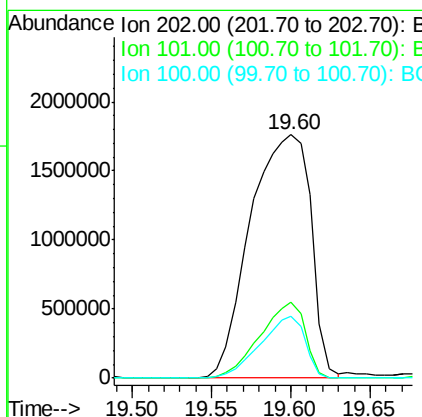
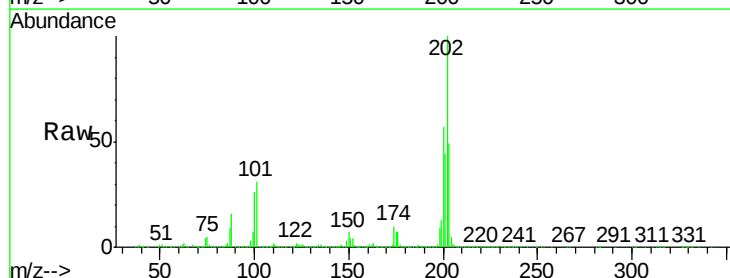
Instrument :
 BNA_G
 ClientSampleId :
 D9XG1

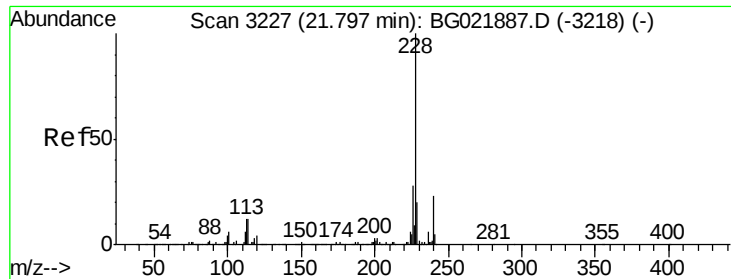
Tot Ion:167 Resp: 1423518
 Ion Ratio Lower Upper
 167 100
 166 26.4 19.0 28.4
 139 13.8 12.2 18.4



#75
 Fluoranthene
 Concen: 198.39 ng/ul
 RT: 19.60 min Scan# 2853
 Delta R.T. 0.02 min
 Lab File: BG021894.D
 Acq: 15 May 2016 15:34

Tgt Ion:202 Resp: 4634547
 Ion Ratio Lower Upper
 202 100
 101 31.4 8.9 13.3#
 100 25.6 7.0 10.4#





#81

Benzo(a)anthracene

Concen: 139.93 ng/ul

RT: 21.82 min Scan# 3230

Delta R.T. 0.02 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

Instrument :

BNA_G

ClientSampleId :

D9XG1

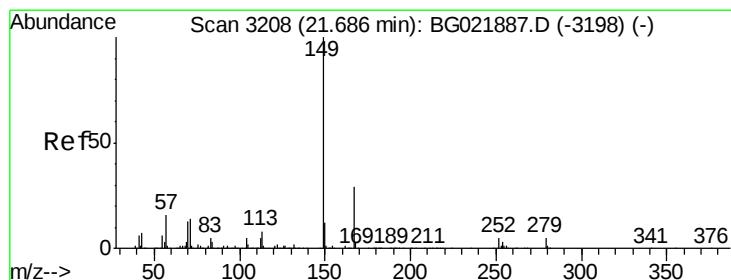
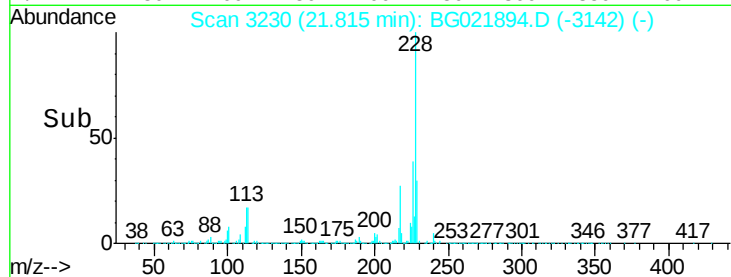
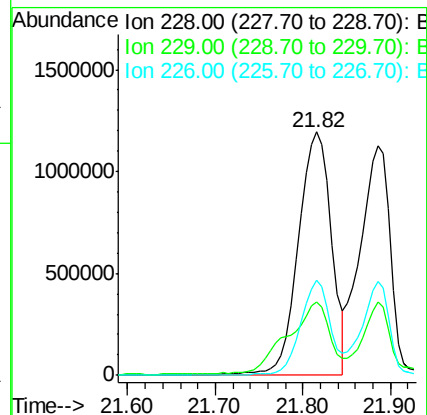
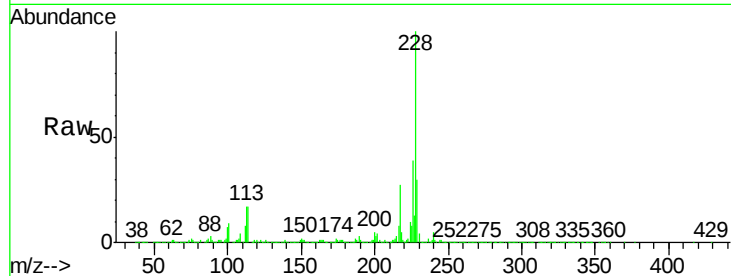
Tot Ion:228 Resp: 3128303

Ion Ratio Lower Upper

228 100

229 30.3 16.6 25.0#

226 39.2 21.0 31.4#



#82

Bis(2-ethylhexyl)phthalate

Concen: 1.71 ng/ul

RT: 21.69 min Scan# 3208

Delta R.T. 0.00 min

Lab File: BG021894.D

Acq: 15 May 2016 15:34

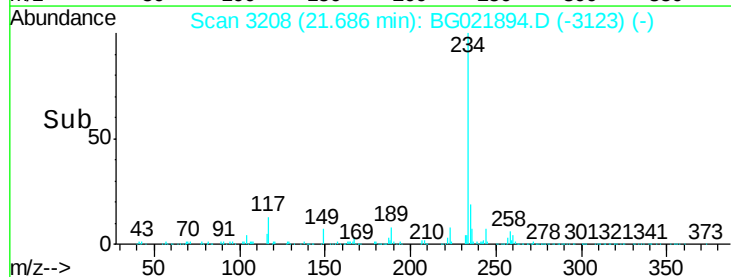
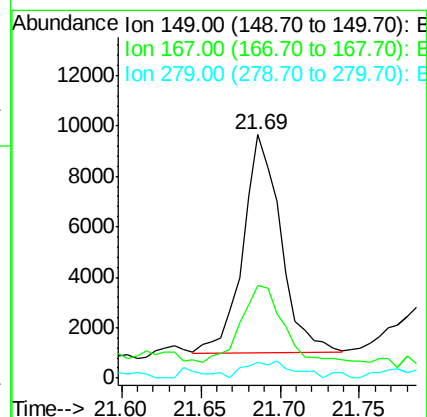
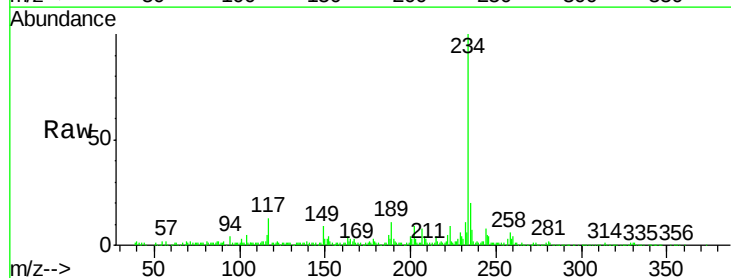
Tgt Ion:149 Resp: 14361

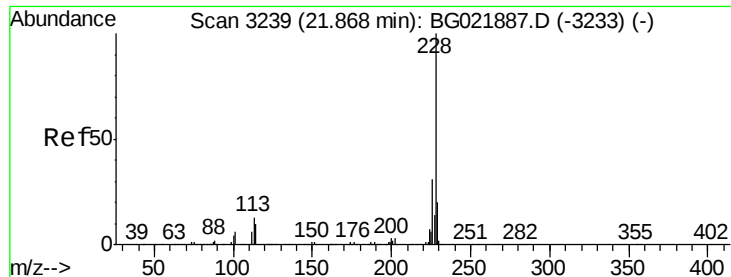
Ion Ratio Lower Upper

149 100

167 37.8 20.5 30.7#

279 6.5 3.7 5.5#

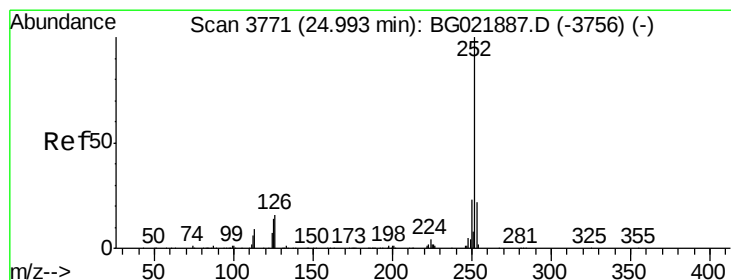
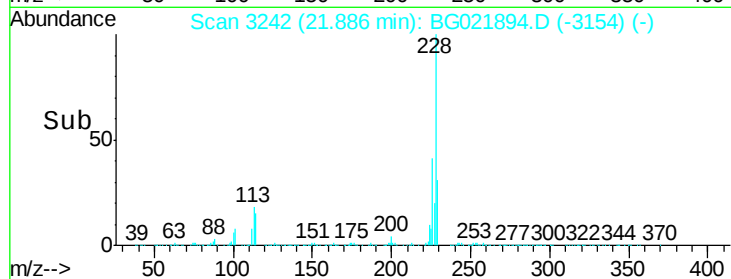
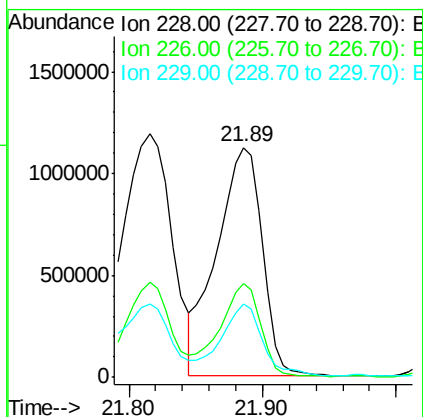
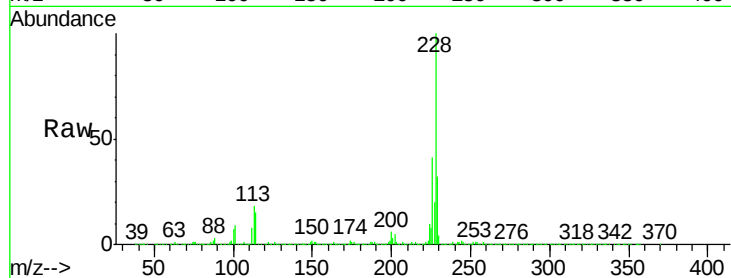




#83
Chrysene
Concen: 120.42 ng/ul
RT: 21.89 min Scan# 3242
Delta R.T. 0.02 min
Lab File: BG021894.D
Acq: 15 May 2016 15:34

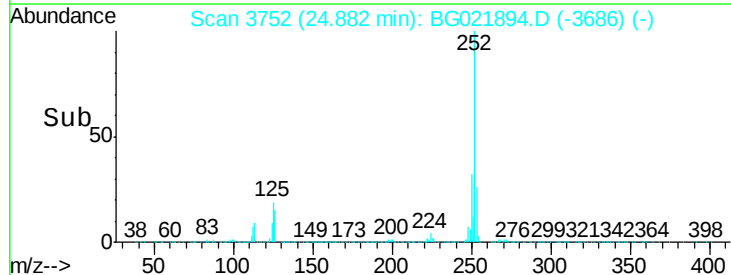
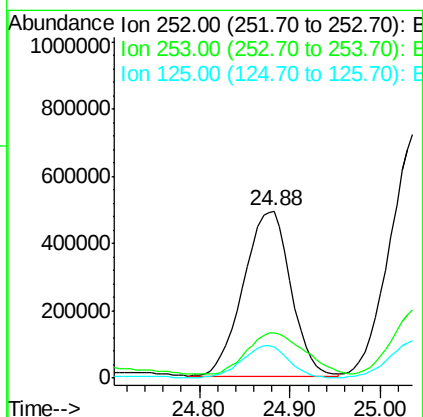
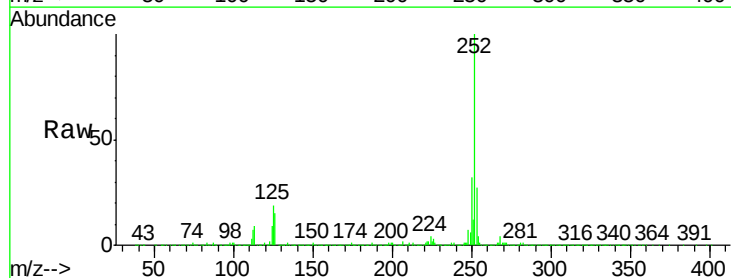
Instrument :
BNA_G
ClientSampleId :
D9XG1

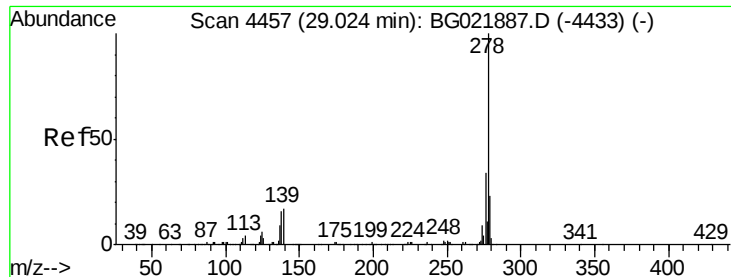
Tot Ion:228 Resp: 2662945
Ion Ratio Lower Upper
228 100
226 41.0 23.4 35.2#
229 32.2 16.2 24.2#



#89
Benzo(a)pyrene
Concen: 74.64 ng/ul
RT: 24.88 min Scan# 3752
Delta R.T. -0.11 min
Lab File: BG021894.D
Acq: 15 May 2016 15:34

Tgt Ion:252 Resp: 1776375
Ion Ratio Lower Upper
252 100
253 26.9 17.4 26.0#
125 18.7 8.2 12.2#

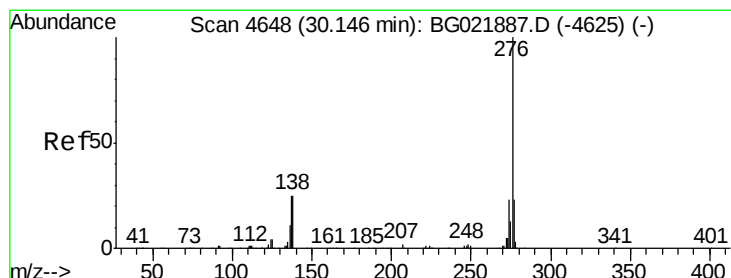
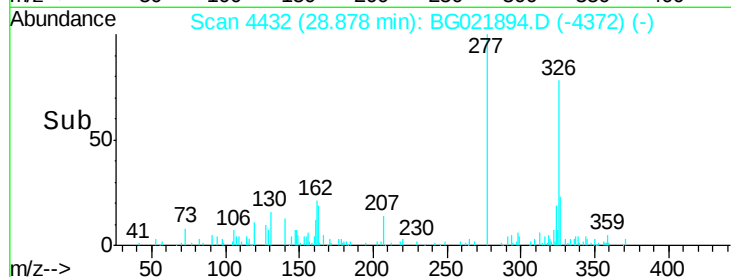
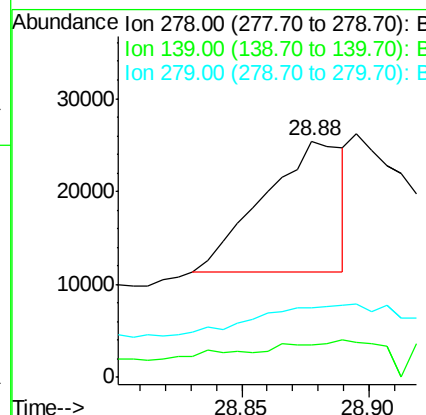
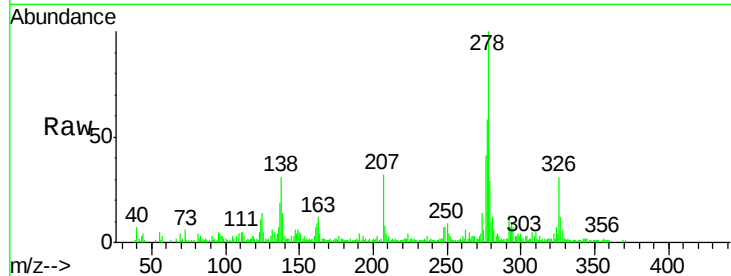




#91
Dibenzo(a,h)anthracene
Concen: 1.32 ng/ul
RT: 28.88 min Scan# 4432
Delta R.T. -0.15 min
Lab File: BG021894.D
Acq: 15 May 2016 15:34

Instrument :
BNA_G
ClientSampleId :
D9XG1

Tot Ion:278 Resp: 30986
Ion Ratio Lower Upper
278 100
139 13.5 12.1 18.1
279 29.2 19.8 29.8



#92
Benzo(g,h,i)perylene
Concen: 3.34 ng/ul
RT: 29.68 min Scan# 4568
Delta R.T. -0.47 min
Lab File: BG021894.D
Acq: 15 May 2016 15:34

Tgt Ion:276 Resp: 77797
Ion Ratio Lower Upper
276 100
138 53.2 13.9 20.9#
277 64.3 19.8 29.6#

