

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020450.D
 Acq On : 23 Dec 2015 19:27
 Operator : UM/SJ
 Sample : G4848-05DL 30X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N51DL

Quant Time: Dec 24 02:50:21 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 24 02:43:25 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.09	152	23956	20.00	ng/ul	0.00
18) Naphthalene-d8	10.91	136	103210	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.72	164	70920	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.48	188	152842	20.00	ng/ul	0.01
78) Chrysene-d12	21.75	240	190518	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	177652	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	7.25	99	1115	0.53	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	800	0.63	ng/ul	0.00
9) 2-Chlorophenol-d4	7.61	132	937	0.61	ng/ul	0.00
13) 4-Methylphenol-d8	8.79	113	1110	0.61	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	326	0.41	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	774	0.86	ng/ul	0.01
26) 2,4-Dichlorophenol-d3	10.52	165	1264	0.70	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	2296	1.13	ng/ul	0.00
44) Dimethylphthalate-d6	14.12	166	6144	1.07	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	6117	0.92	ng/ul	0.00
52) 4-Nitrophenol-d4	14.93	143	967	0.94	ng/ul	0.00
58) Fluorene-d10	15.71	176	6092	1.17	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	0.00	200	0	0.00	ng/ul	
71) Anthracene-d10	17.59	188	7163	1.02	ng/ul	0.03
79) Pyrene-d10	19.85	212	9536	1.07	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.77	264	8970	1.01	ng/ul	0.00

Target Compounds

						Qvalue
16) 4-Methylphenol	8.86	108	3567	1.87	ng/ul	84
17) Hexachloroethane	9.20	117	1979	2.93	ng/ul#	1
24) 2,4-Dimethylphenol	10.07	107	4896	2.25	ng/ul	96
28) Naphthalene	10.98	128	3511260	651.46	ng/ul#	79
30) 4-Chloroaniline	10.98	127	634149	304.97	ng/ul#	10
34) 2-Methylnaphthalene	12.57	142	1357782	329.80	ng/ul	99
35) 1-Methylnaphthalene	12.78	142	662062	167.27	ng/ul	99
41) 1,1'-Biphenyl	13.56	154	524359	98.00	ng/ul	98
43) 2-Nitroaniline	13.75	65	2844	1.95	ng/ul#	33
48) Acenaphthylene	14.44	152	124318	17.53	ng/ul#	94
50) Acenaphthene	14.81	153	1988045	416.71	ng/ul#	92
53) 4-Nitrophenol	14.81	109	4451	4.50	ng/ul#	1
54) Dibenzofuran	15.13	168	1969853	277.56	ng/ul#	87
55) 2,4-Dinitrotoluene	15.07	165	4196	2.36	ng/ul#	32
59) Fluorene	15.79	166	1923452	337.50	ng/ul#	98
61) 4-Nitroaniline	15.79	138	28454	22.37	ng/ul#	13
65) N-Nitrosodiphenylamine	15.97	169	11146	2.62	ng/ul#	1
70) Phenanthrene	17.62	178	749604	89.66	ng/ul	98
72) Anthracene	17.62	178	749604	88.40	ng/ul	96
75) Carbazole	17.88	167	432327	60.68	ng/ul	99
77) Fluoranthene	19.66	202	14021	1.44	ng/ul	98
80) Pyrene	19.90	202	2931944	254.27	ng/ul#	86
83) Benzo(a)anthracene	21.72	228	965916	86.89	ng/ul	95

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QLast Update : Thu Dec 24 02:43:25 2015
Response via : Initial Calibration

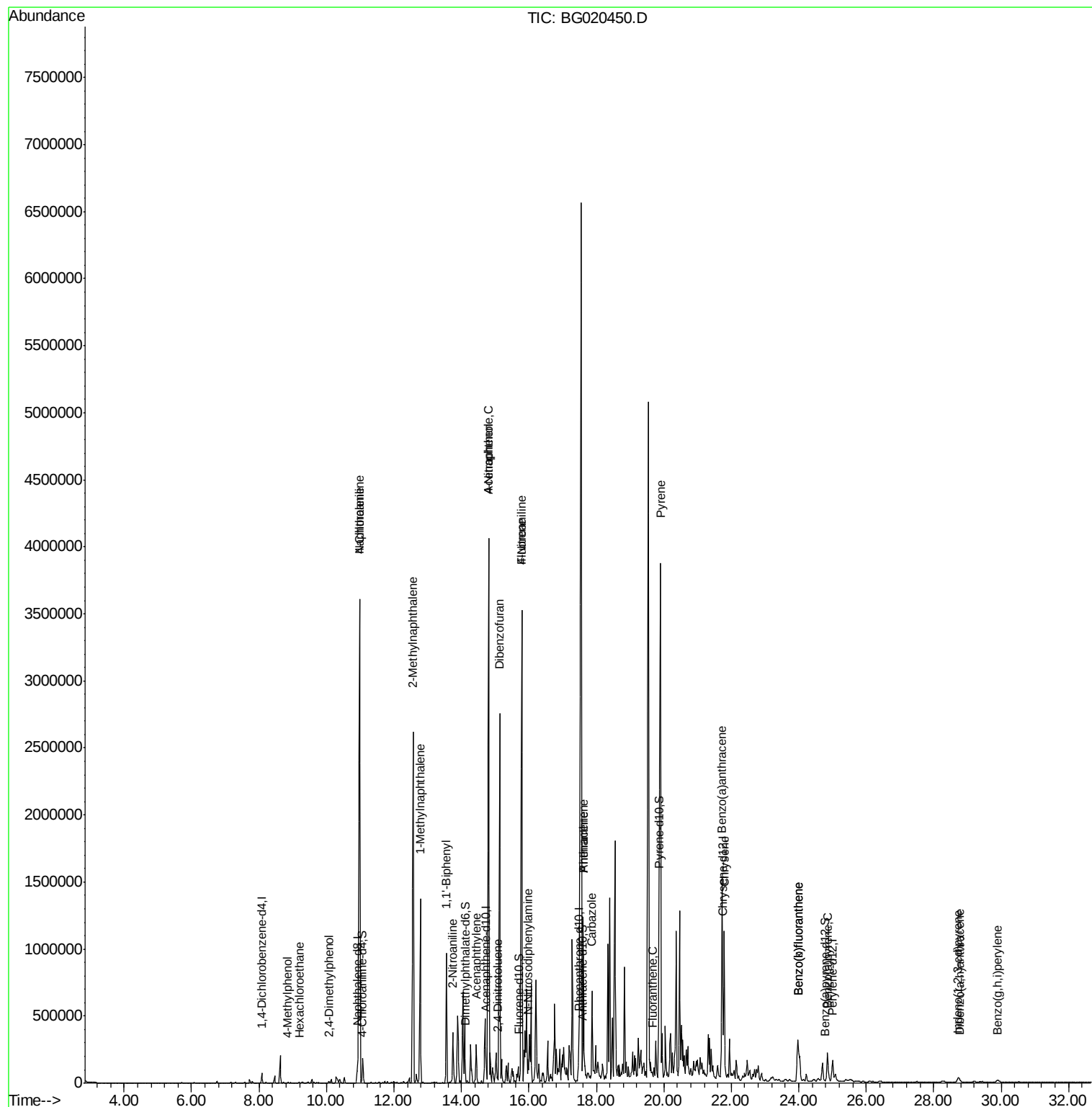
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Chrysene	21.79	228	793125	75.75	ng/ul	95
88) Benzo(b)fluoranthene	23.97	252	454636	42.52	ng/ul	96
89) Benzo(k)fluoranthene	23.97	252	454636	44.31	ng/ul	99
91) Benzo(a)pyrene	24.86	252	253917	25.05	ng/ul	98
92) Indeno(1,2,3-cd)pyrene	28.73	276	68158	5.65	ng/ul	96
93) Dibenzo(a,h)anthracene	28.78	278	20302	2.03	ng/ul	96
94) Benzo(g,h,i)perylene	29.90	276	26047	2.63	ng/ul	96

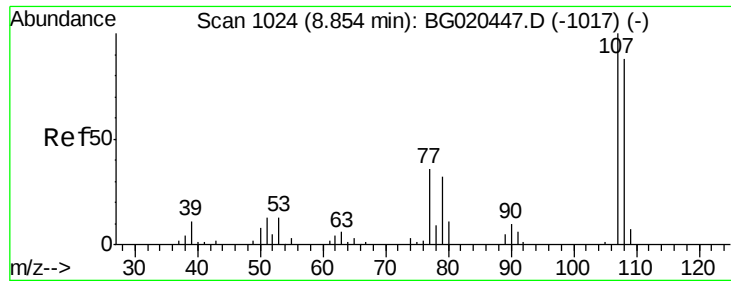
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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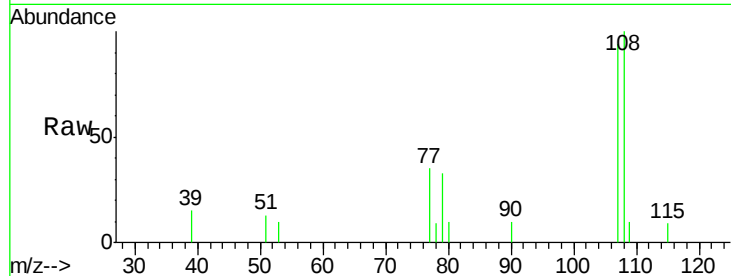




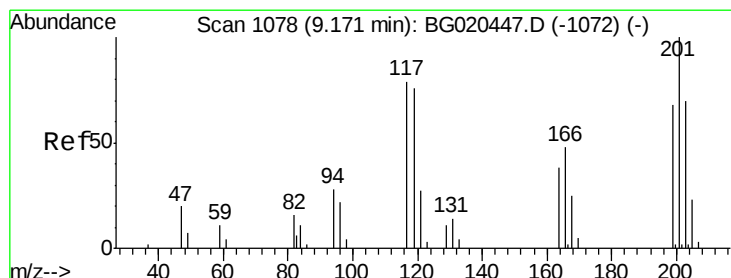
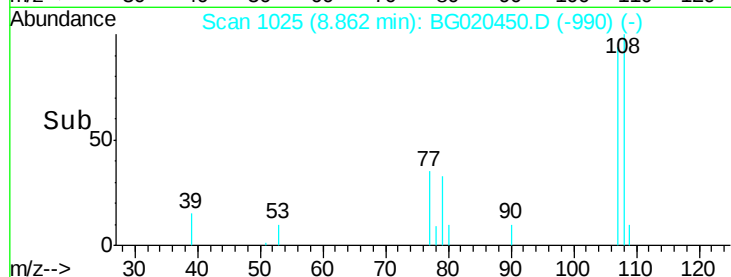
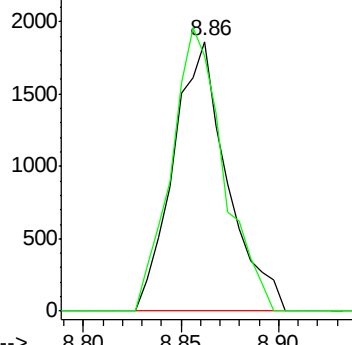
#16
4-Methylphenol
Concen: 1.87 ng/ul
RT: 8.86 min Scan# 1025
Delta R.T. 0.01 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

Instrument :
BNA_G
ClientSampled :
D9N51DL

Tgt Ion:108 Resp: 3567
Ion Ratio Lower Upper
108 100
107 94.4 88.9 133.3

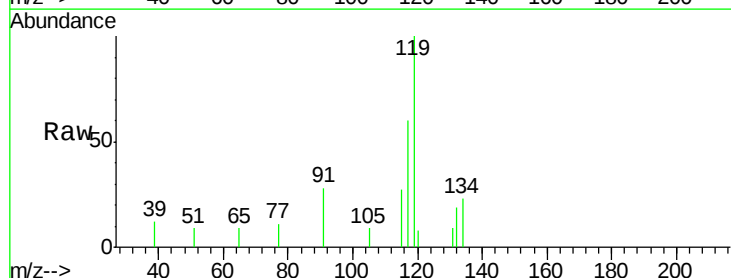


Abundance Ion 108.00 (107.70 to 108.70): E
Ion 107.00 (106.70 to 107.70): E

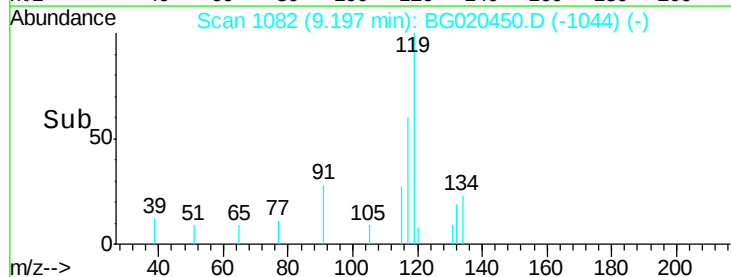
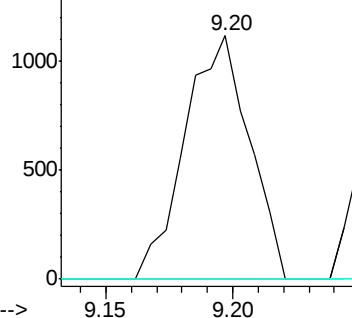


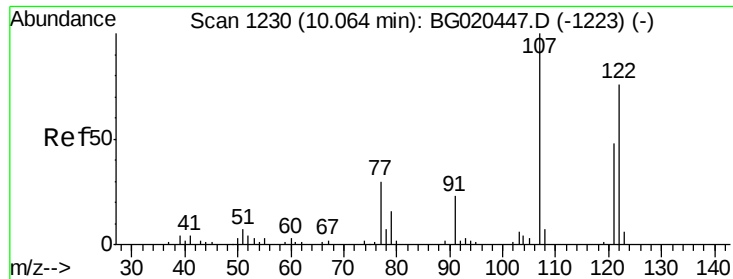
#17
Hexachloroethane
Concen: 2.93 ng/ul
RT: 9.20 min Scan# 1082
Delta R.T. 0.03 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

Tgt Ion:117 Resp: 1979
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

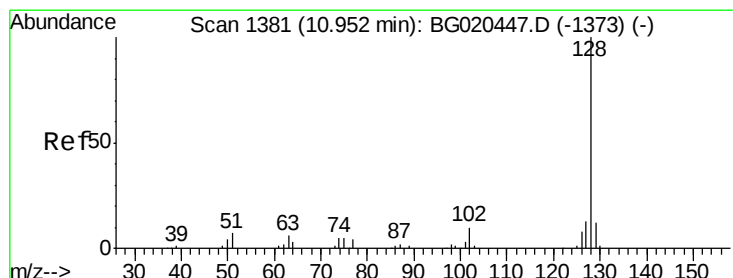
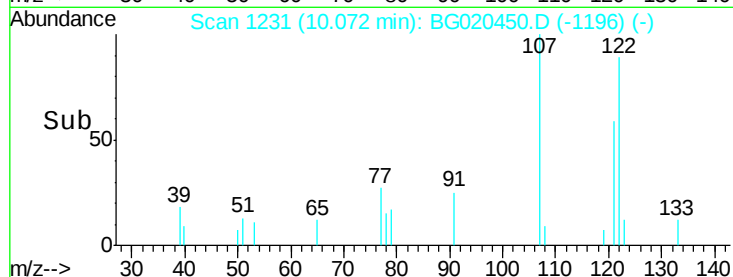
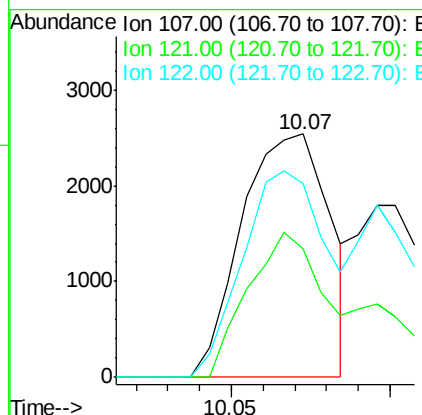
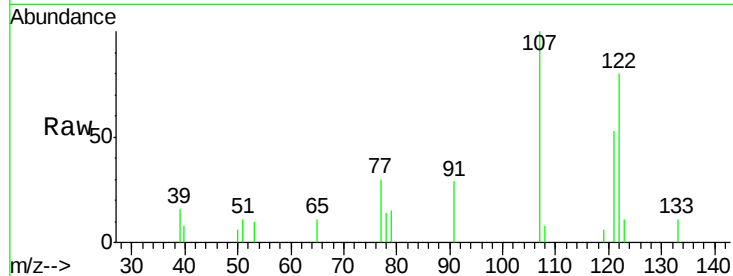




#24
2,4-Dimethylphenol
Concen: 2.25 ng/ul
RT: 10.07 min Scan# 1231
Delta R.T. 0.01 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

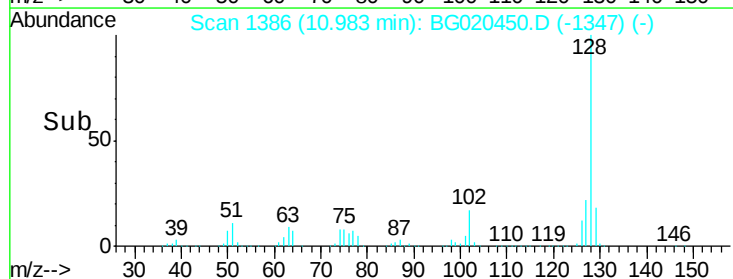
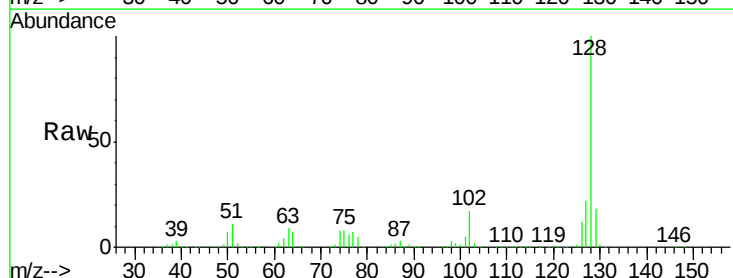
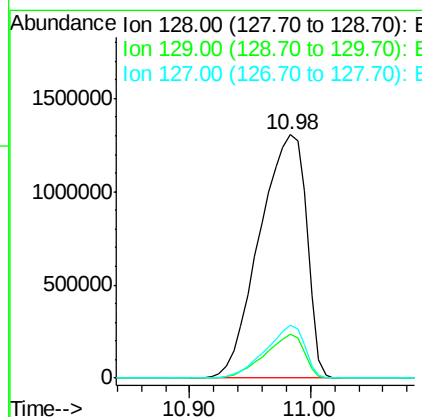
Instrument :
BNA_G
ClientSampleId :
D9N51DL

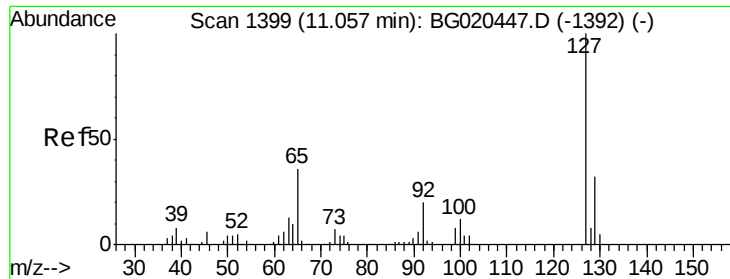
Tgt Ion:107 Resp: 4896
Ion Ratio Lower Upper
107 100
121 52.6 39.0 58.4
122 79.7 62.1 93.1



#28
Naphthalene
Concen: 651.46 ng/ul
RT: 10.98 min Scan# 1386
Delta R.T. 0.03 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

Tgt Ion:128 Resp: 3511260
Ion Ratio Lower Upper
128 100
129 17.8 8.6 12.8#
127 21.7 10.1 15.1#

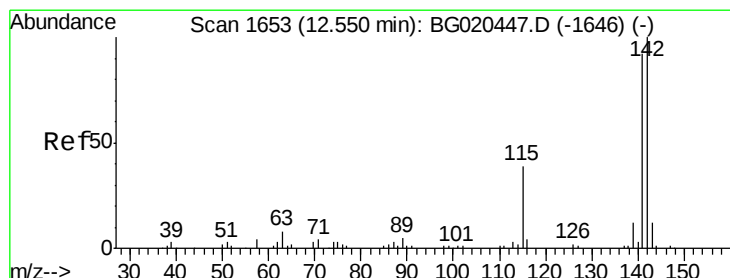
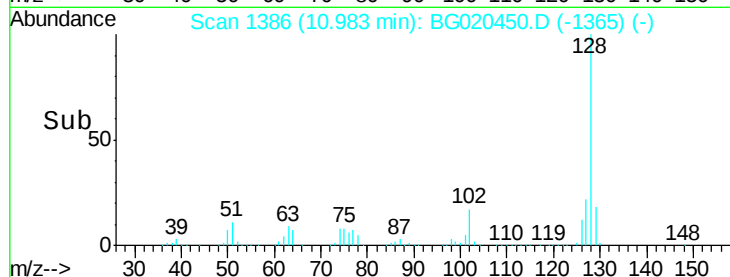
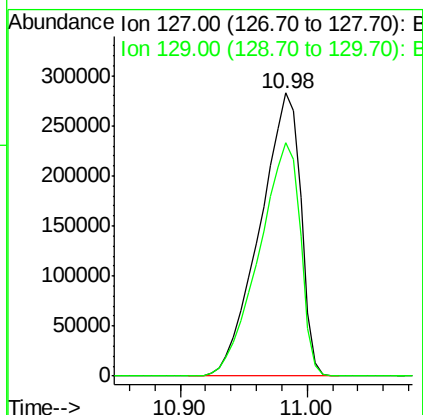
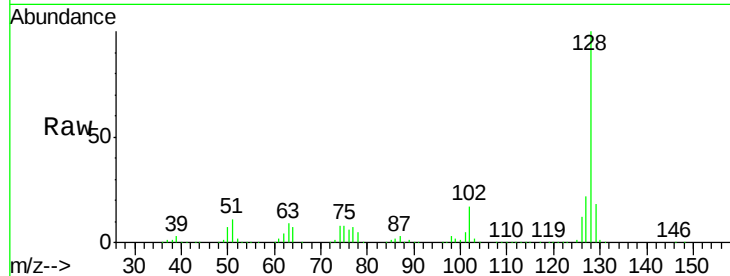




#30
4-Chloroaniline
Concen: 304.97 ng/ul
RT: 10.98 min Scan# 1386
Delta R.T. -0.07 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

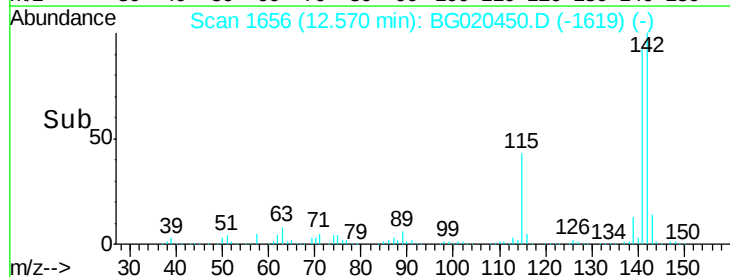
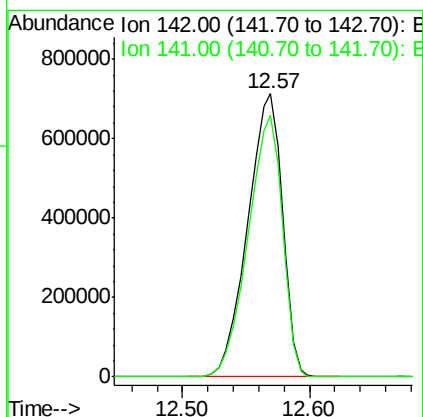
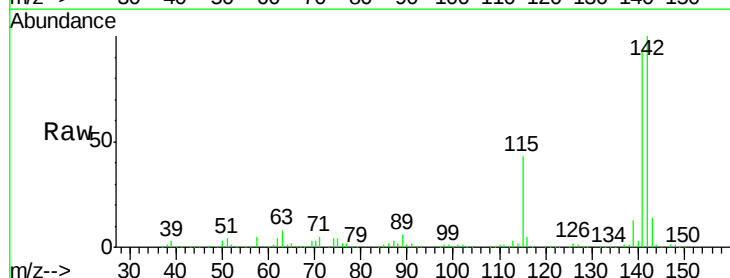
Instrument :
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ClientSampleId :
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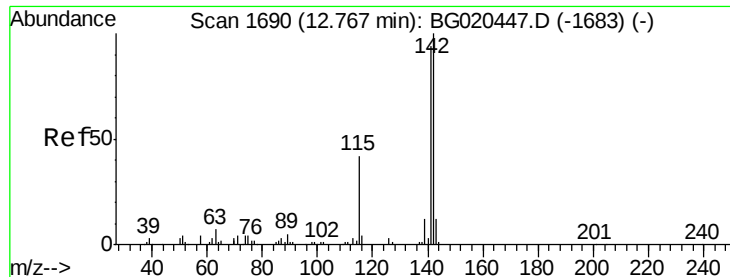
Tgt Ion:127 Resp: 634149
Ion Ratio Lower Upper
127 100
129 82.3 25.7 38.5#



#34
2-Methylnaphthalene
Concen: 329.80 ng/ul
RT: 12.57 min Scan# 1656
Delta R.T. 0.02 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

Tgt Ion:142 Resp: 1357782
Ion Ratio Lower Upper
142 100
141 92.5 74.9 112.3

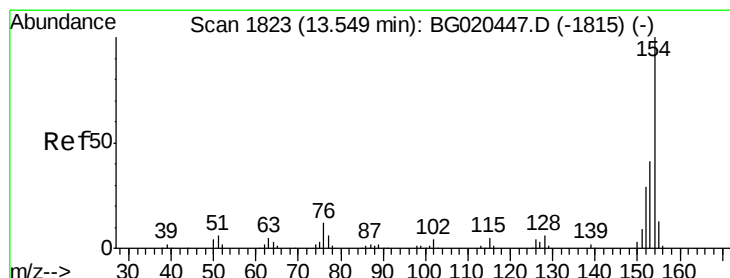
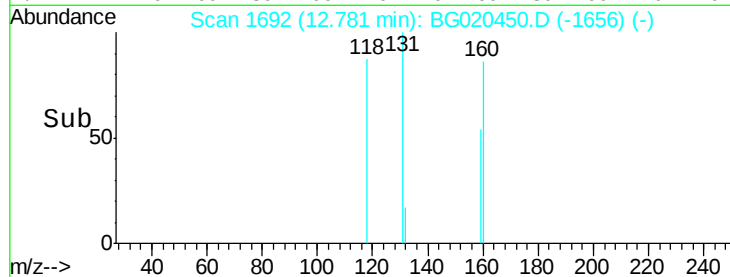
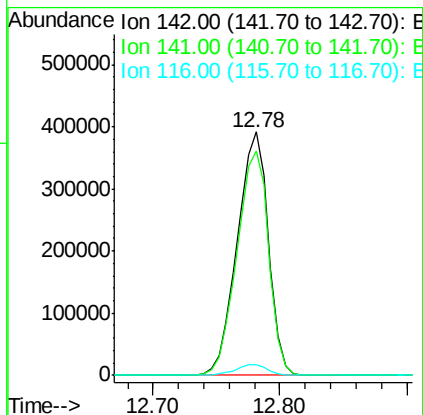
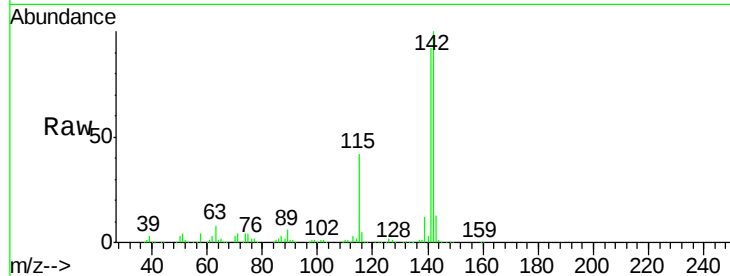




#35
 1-Methylnaphthalene
 Concen: 167.27 ng/ul
 RT: 12.78 min Scan# 1692
 Delta R.T. 0.01 min
 Lab File: BG020450.D
 Acq: 23 Dec 2015 19:27

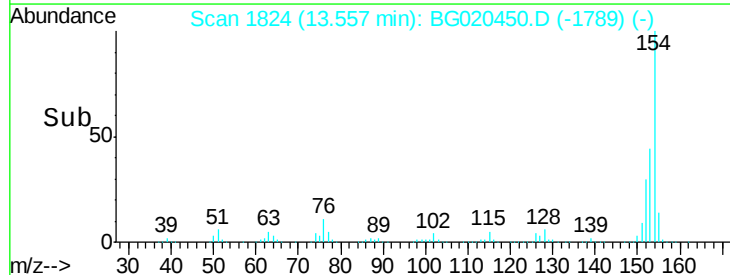
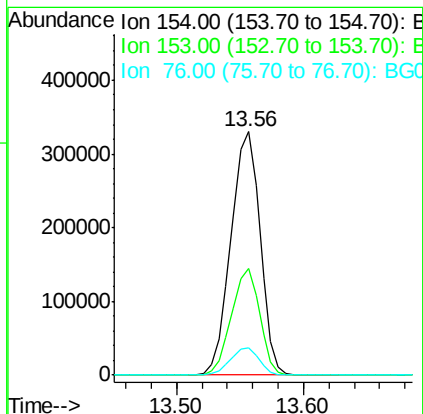
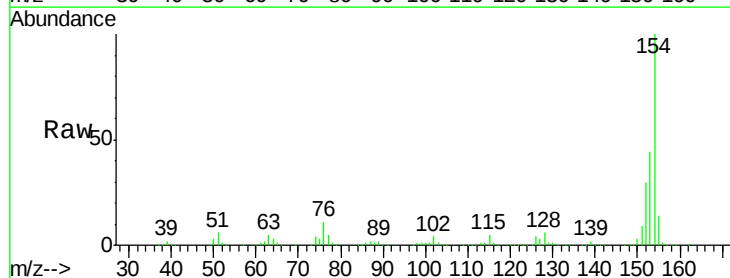
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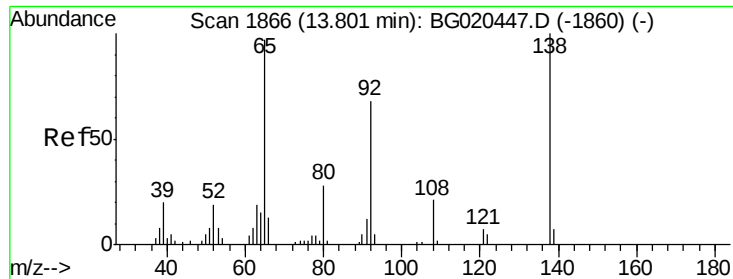
Tgt Ion:142 Resp: 662062
 Ion Ratio Lower Upper
 142 100
 141 92.1 73.0 109.6
 116 4.6 3.0 4.6



#41
 1,1'-Biphenyl
 Concen: 98.00 ng/ul
 RT: 13.56 min Scan# 1824
 Delta R.T. 0.01 min
 Lab File: BG020450.D
 Acq: 23 Dec 2015 19:27

Tgt Ion:154 Resp: 524359
 Ion Ratio Lower Upper
 154 100
 153 43.6 35.5 53.3
 76 11.0 10.4 15.6





#43

2-Nitroaniline

Concen: 1.95 ng/ul

RT: 13.75 min Scan# 1857

Delta R.T. -0.05 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

Instrument :

BNA_G

ClientSampleId :

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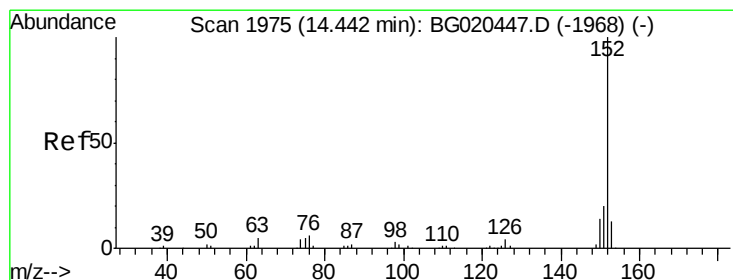
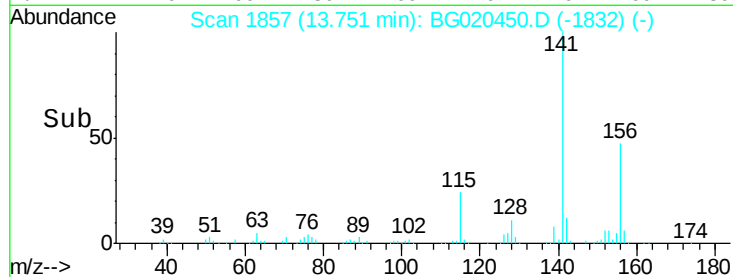
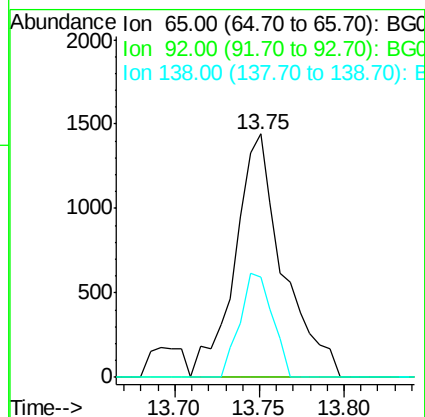
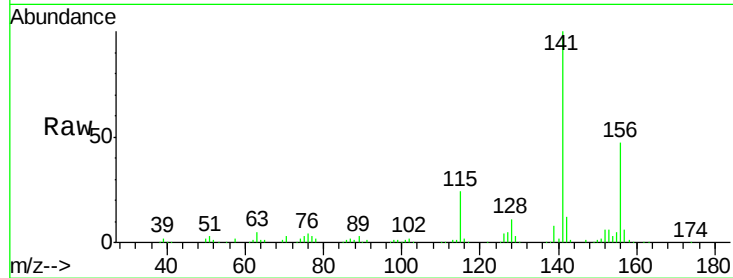
Tgt Ion: 65 Resp: 2844

Ion Ratio Lower Upper

65 100

92 0.0 53.1 79.7#

138 41.3 76.6 114.8#



#48

Acenaphthylene

Concen: 17.53 ng/ul

RT: 14.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

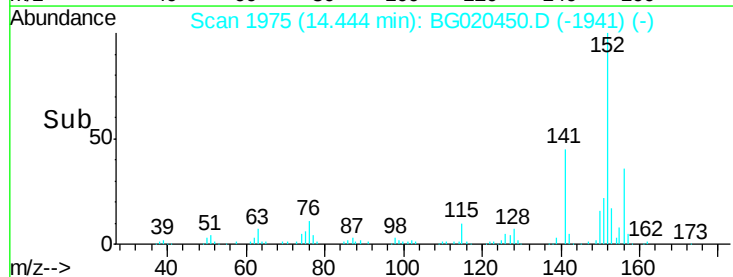
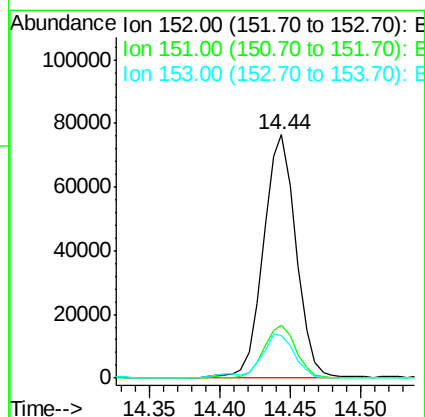
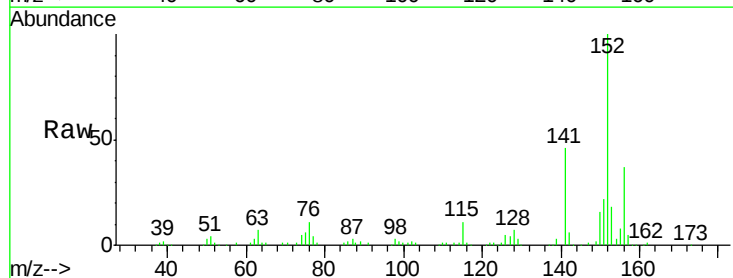
Tgt Ion: 152 Resp: 124318

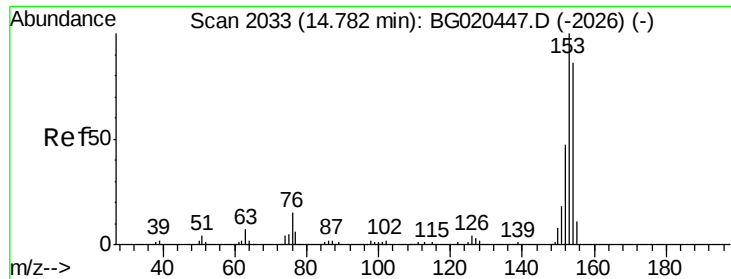
Ion Ratio Lower Upper

152 100

151 21.8 16.4 24.6

153 17.7 10.4 15.6#





#50

Acenaphthene

Concen: 416.71 ng/ul

RT: 14.81 min Scan# 2037

Delta R.T. 0.03 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

Instrument :

BNA_G

ClientSampleId :

D9N51DL

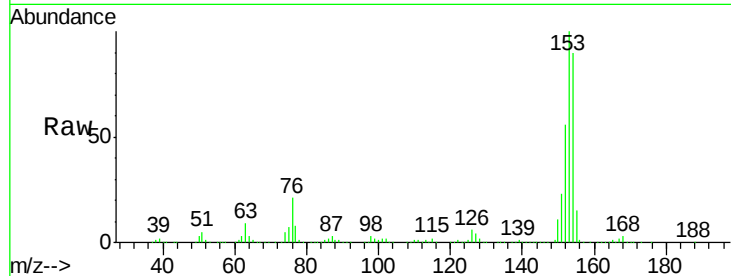
Tgt Ion:153 Resp: 1988045

Ion Ratio Lower Upper

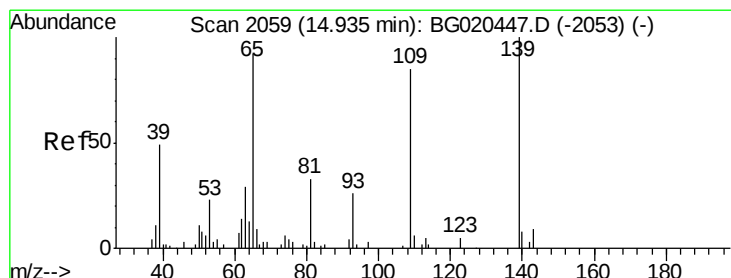
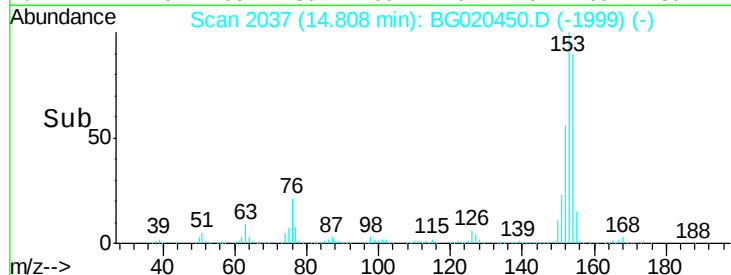
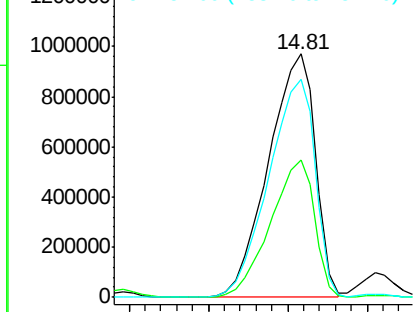
153 100

152 56.5 37.6 56.4#

154 89.7 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: 4.50 ng/ul

RT: 14.81 min Scan# 2037

Delta R.T. -0.13 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

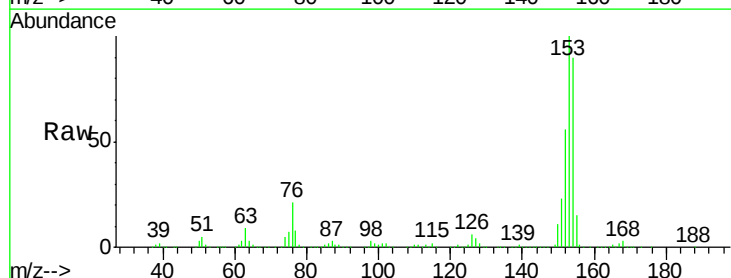
Tgt Ion:109 Resp: 4451

Ion Ratio Lower Upper

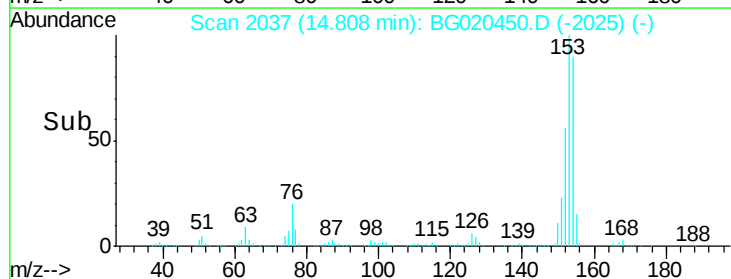
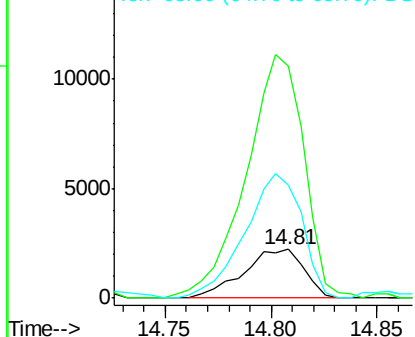
109 100

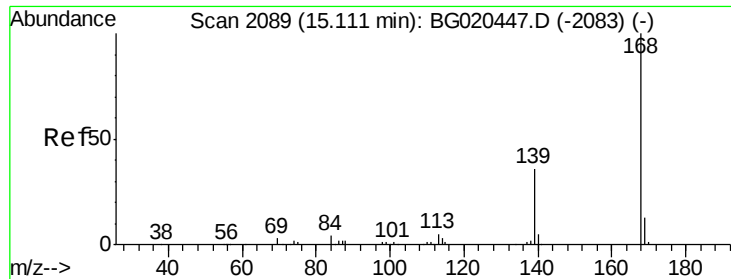
139 477.7 80.5 120.7#

65 232.8 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): BGO

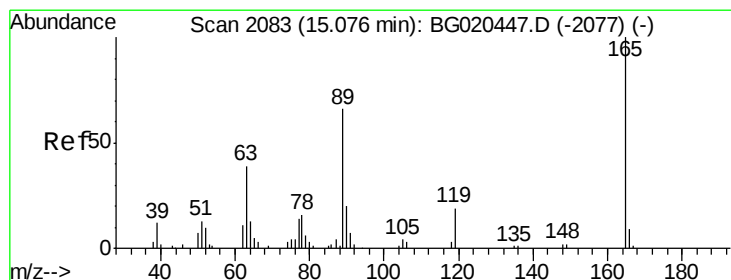
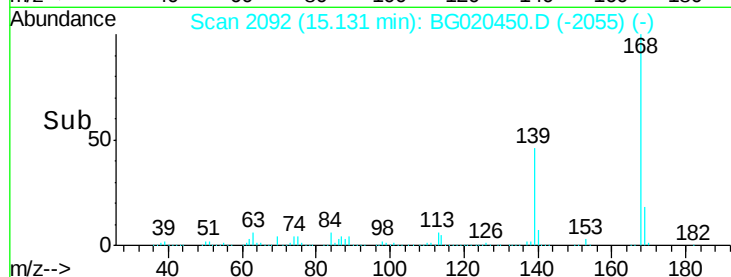
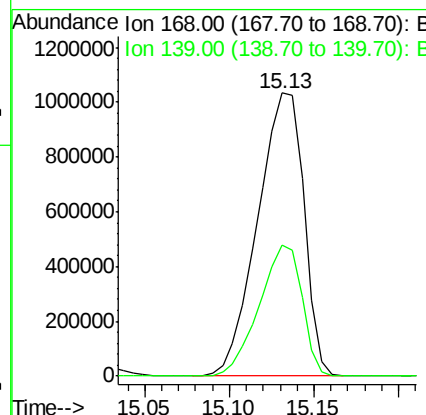
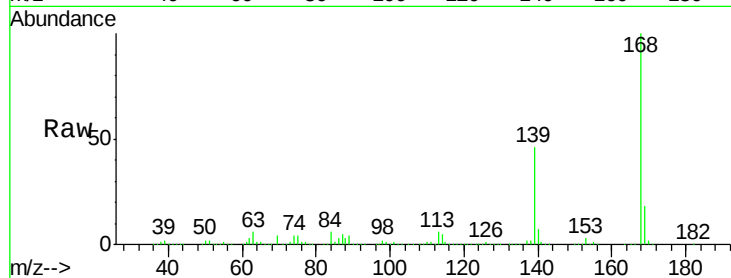




#54
Dibenzenofuran
Concen: 277.56 ng/ul
RT: 15.13 min Scan# 2092
Delta R.T. 0.02 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

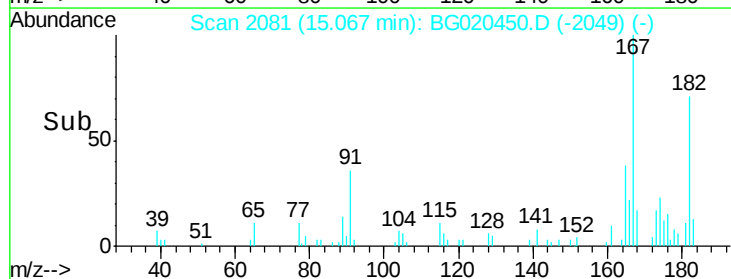
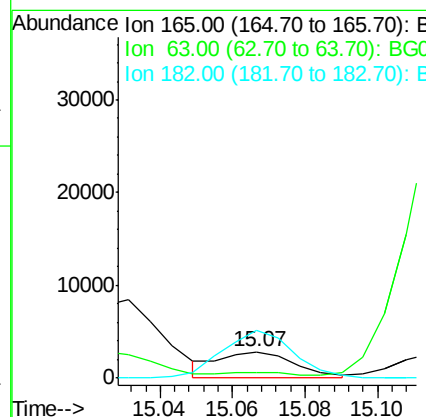
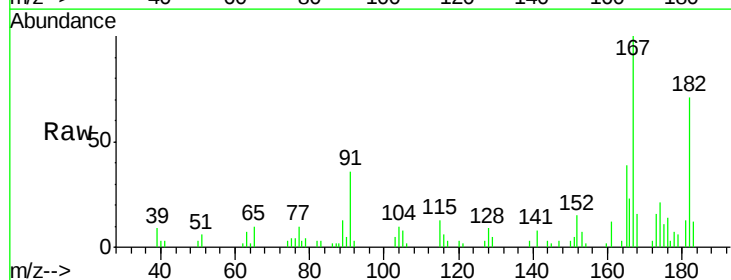
Instrument :
BNA_G
ClientSampleId :
D9N51DL

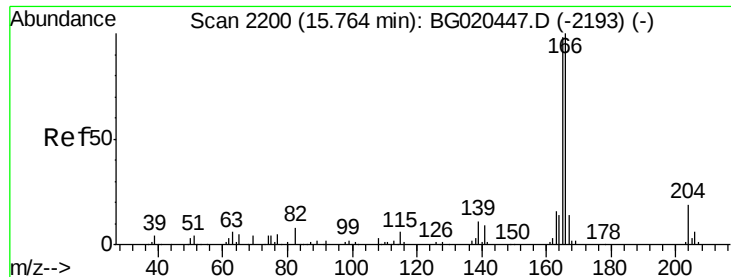
Tgt Ion:168 Resp: 1969853
Ion Ratio Lower Upper
168 100
139 46.2 30.5 45.7#



#55
2,4-Dinitrotoluene
Concen: 2.36 ng/ul
RT: 15.07 min Scan# 2081
Delta R.T. -0.01 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

Tgt Ion:165 Resp: 4196
Ion Ratio Lower Upper
165 100
63 19.0 35.8 53.8#
182 182.3 2.2 3.2#

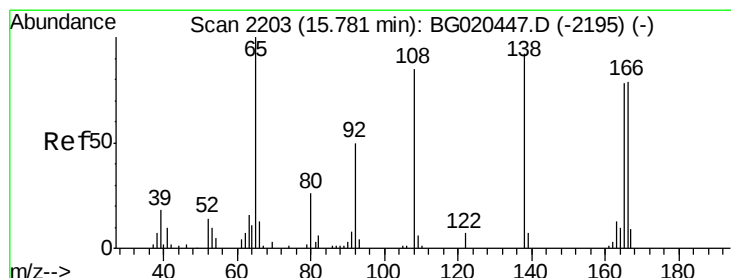
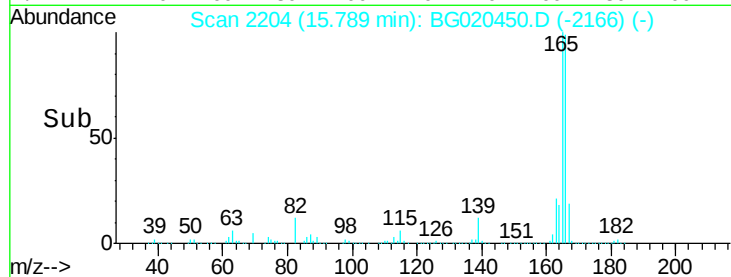
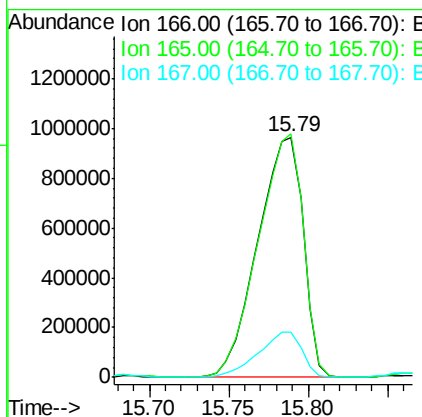
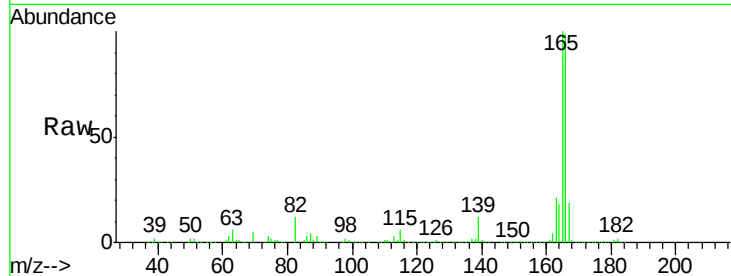




#59
Fluorene
 Concen: 337.50 ng/ul
 RT: 15.79 min Scan# 2204
 Delta R.T. 0.03 min
 Lab File: BG020450.D
 Acq: 23 Dec 2015 19:27

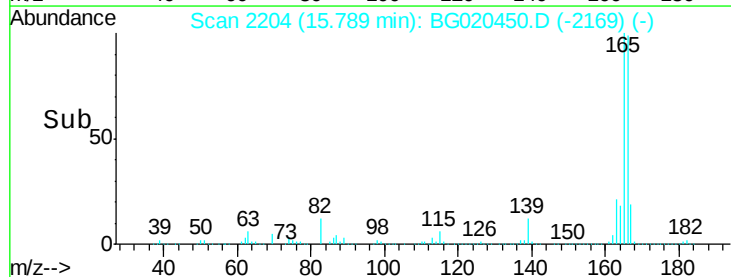
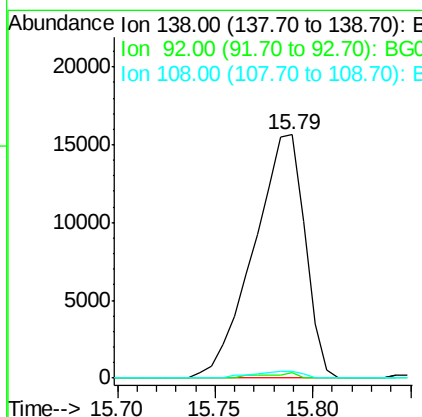
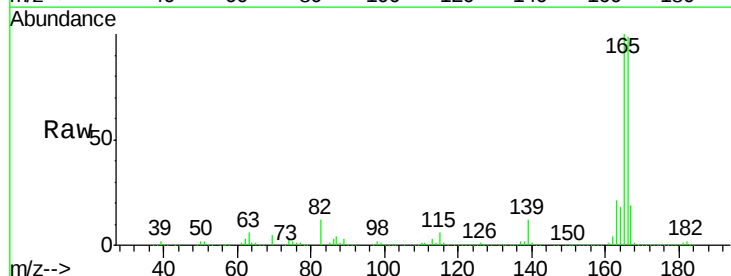
Instrument :
 BNA_G
 ClientSampleId :
 D9N51DL

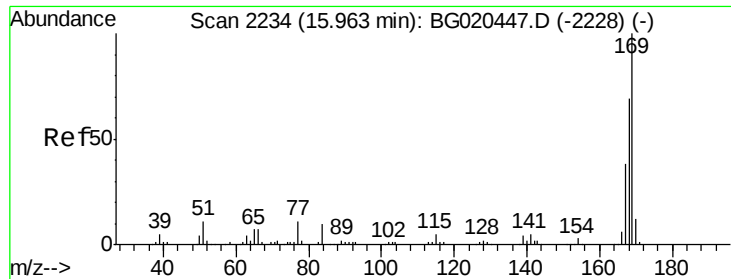
Tgt Ion:166 Resp: 1923452
 Ion Ratio Lower Upper
 166 100
 165 101.4 81.4 122.0
 167 18.9 11.2 16.8#



#61
4-Nitroaniline
 Concen: 22.37 ng/ul
 RT: 15.79 min Scan# 2204
 Delta R.T. 0.01 min
 Lab File: BG020450.D
 Acq: 23 Dec 2015 19:27

Tgt Ion:138 Resp: 28454
 Ion Ratio Lower Upper
 138 100
 92 2.2 45.2 67.8#
 108 3.0 75.4 113.0#





#65

N-Nitrosodiphenylamine

Concen: 2.62 ng/ul

RT: 15.97 min Scan# 2235

Delta R.T. 0.01 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

Instrument :

BNA_G

ClientSampleId :

D9N51DL

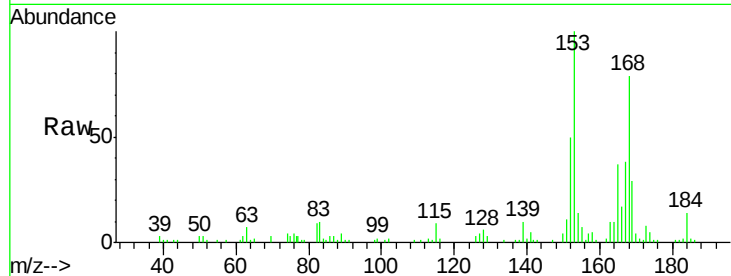
Tgt Ion:169 Resp: 11146

Ion Ratio Lower Upper

169 100

168 269.5 54.3 81.5#

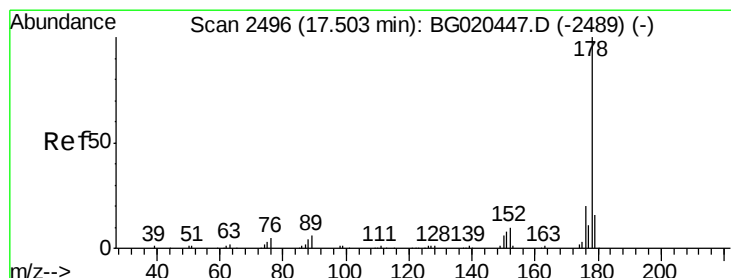
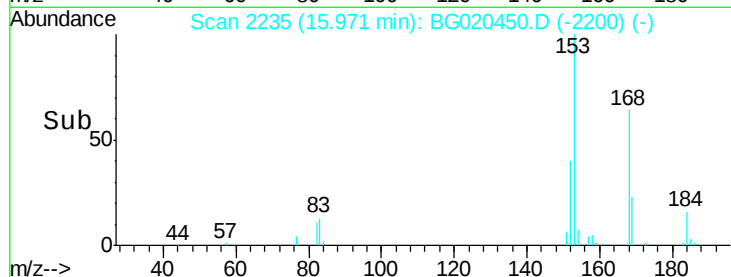
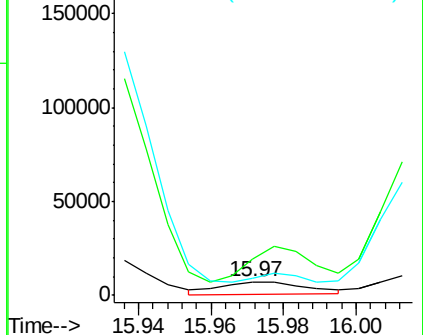
167 128.8 31.8 47.8#



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: 89.66 ng/ul

RT: 17.62 min Scan# 2515

Delta R.T. 0.11 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

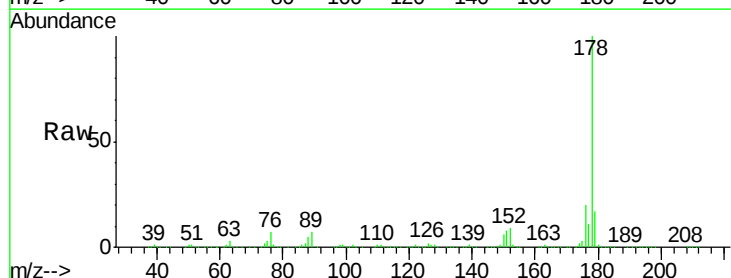
Tgt Ion:178 Resp: 749604

Ion Ratio Lower Upper

178 100

179 17.0 12.9 19.3

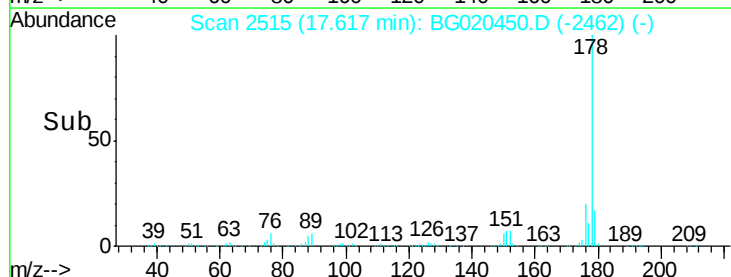
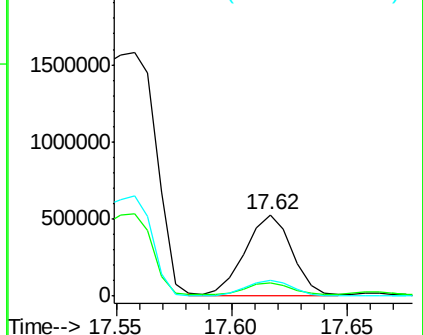
176 20.1 15.3 22.9

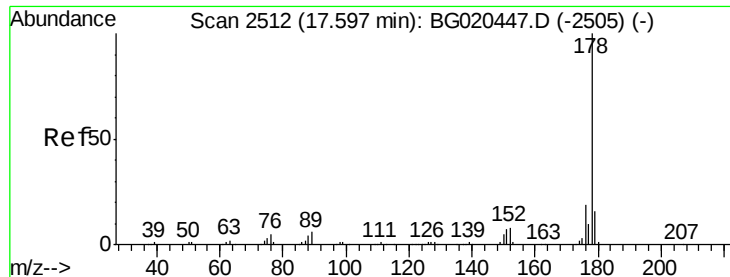


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 88.40 ng/ul

RT: 17.62 min Scan# 2515

Delta R.T. 0.02 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

Instrument :

BNA_G

ClientSampled :

D9N51DL

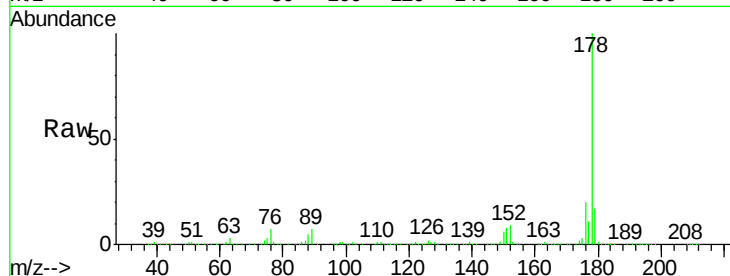
Tgt Ion:178 Resp: 749604

Ion Ratio Lower Upper

178 100

179 17.0 12.3 18.5

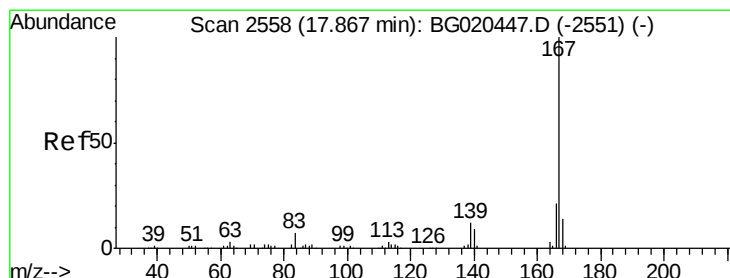
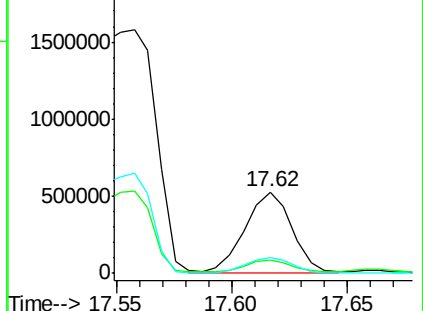
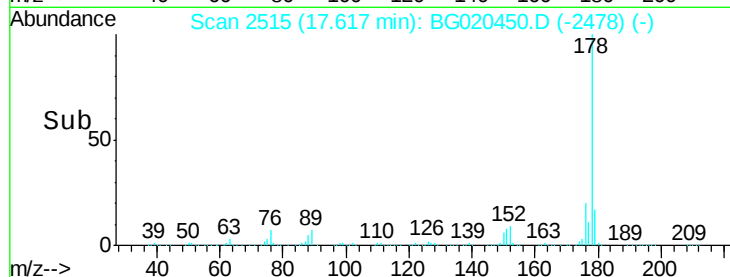
176 20.1 14.3 21.5



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: 60.68 ng/ul

RT: 17.88 min Scan# 2559

Delta R.T. 0.01 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

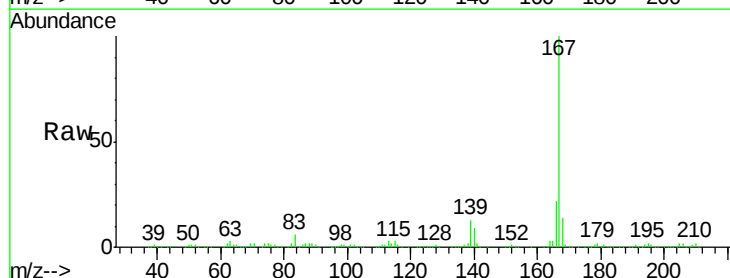
Tgt Ion:167 Resp: 432327

Ion Ratio Lower Upper

167 100

166 22.4 17.0 25.6

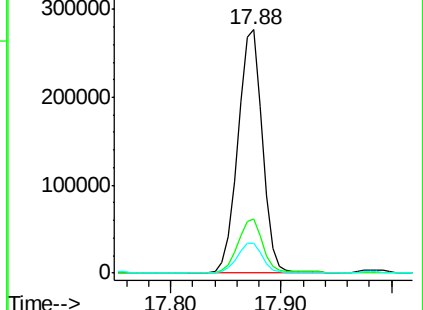
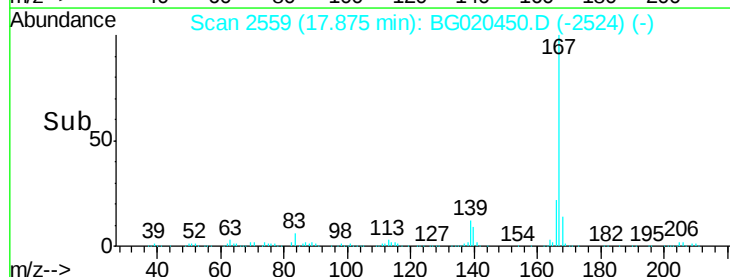
139 12.5 10.1 15.1

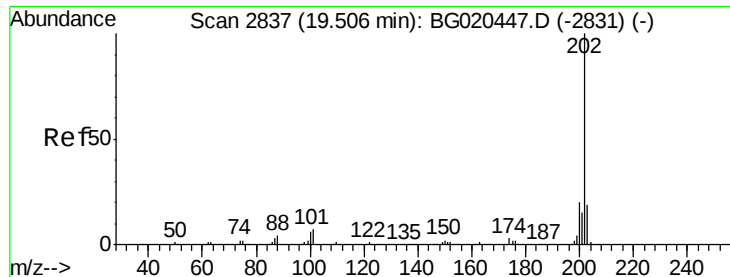


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

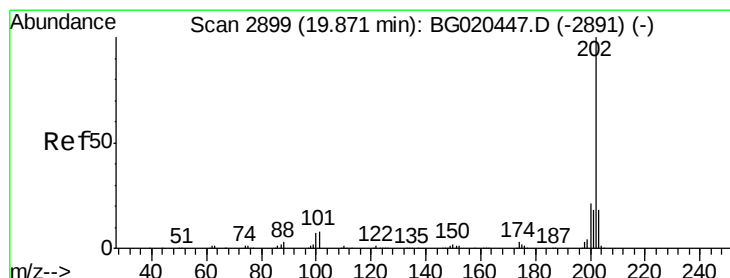
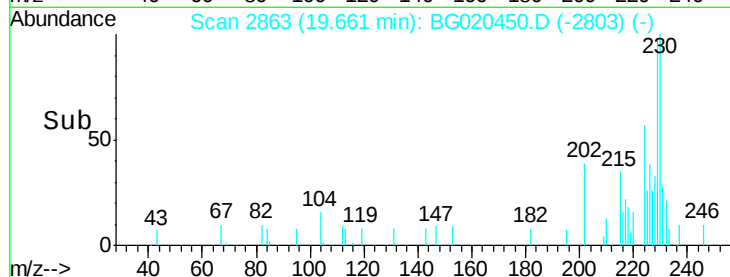
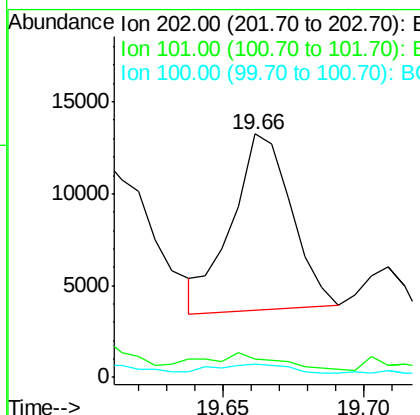
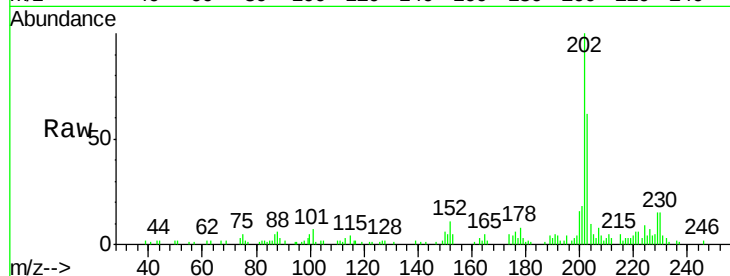




#77
Fluoranthene
Concen: 1.44 ng/ul
RT: 19.66 min Scan# 2863
Delta R.T. 0.15 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

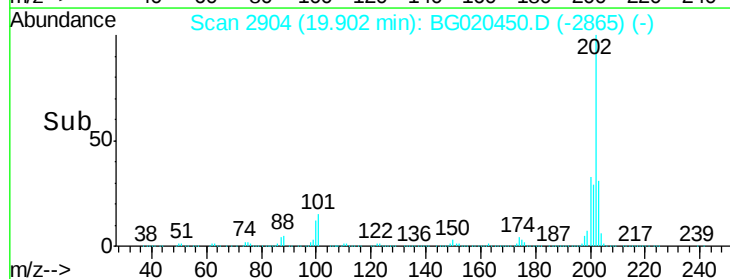
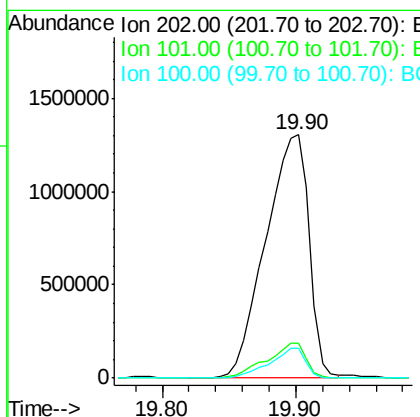
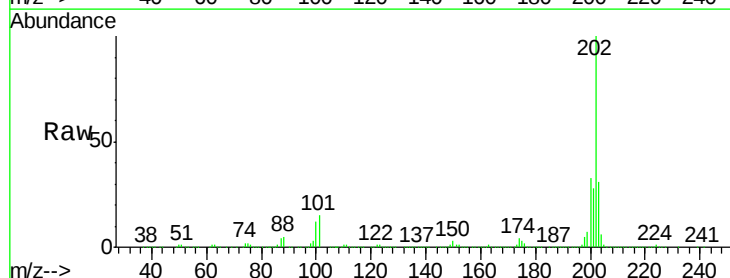
Instrument :
BNA_G
ClientSampleId :
D9N51DL

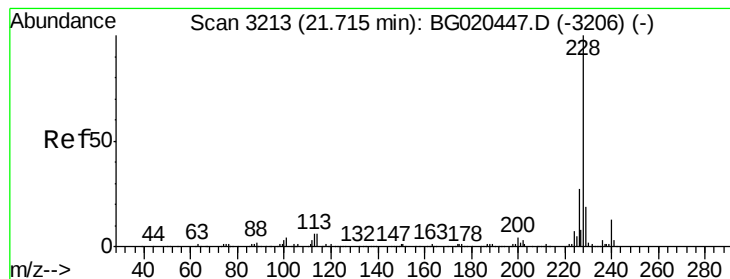
Tgt Ion:202 Resp: 14021
Ion Ratio Lower Upper
202 100
101 7.4 6.2 9.4
100 5.2 5.1 7.7



#80
Pyrene
Concen: 254.27 ng/ul
RT: 19.90 min Scan# 2904
Delta R.T. 0.03 min
Lab File: BG020450.D
Acq: 23 Dec 2015 19:27

Tgt Ion:202 Resp: 2931944
Ion Ratio Lower Upper
202 100
101 14.6 7.0 10.4#
100 12.3 6.4 9.6#





#83

Benzo(a)anthracene

Concen: 86.89 ng/ul

RT: 21.72 min Scan# 3214

Delta R.T. 0.01 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

Instrument :

BNA_G

ClientSampleId :

D9N51DL

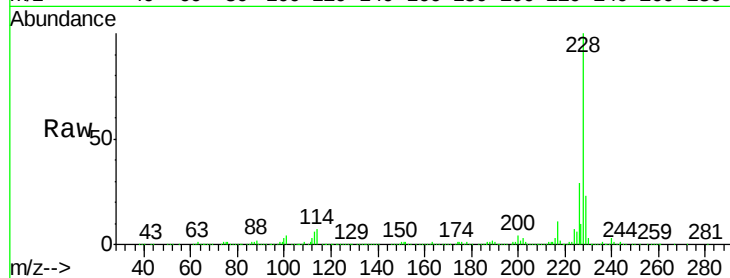
Tgt Ion:228 Resp: 965916

Ion Ratio Lower Upper

228 100

229 22.6 15.8 23.8

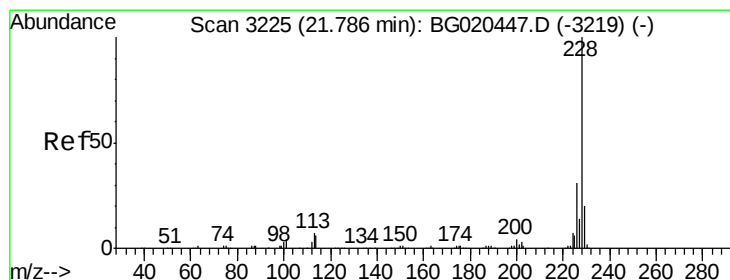
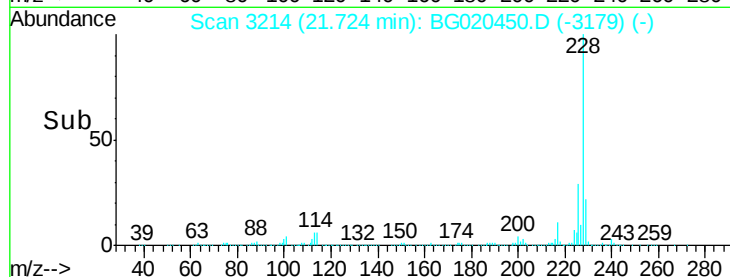
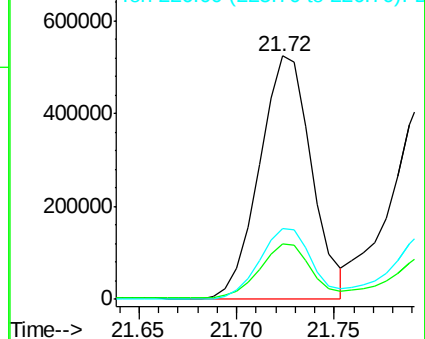
226 29.1 21.8 32.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#85

Chrysene

Concen: 75.75 ng/ul

RT: 21.79 min Scan# 3226

Delta R.T. 0.01 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

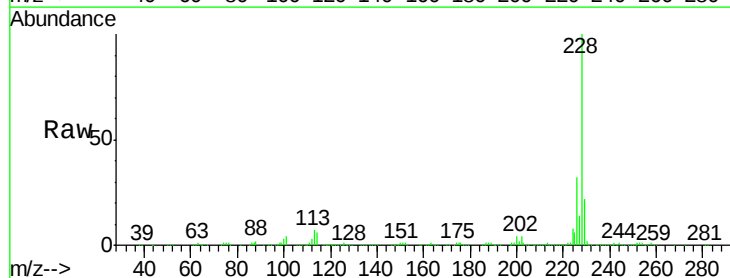
Tgt Ion:228 Resp: 793125

Ion Ratio Lower Upper

228 100

226 32.3 23.9 35.9

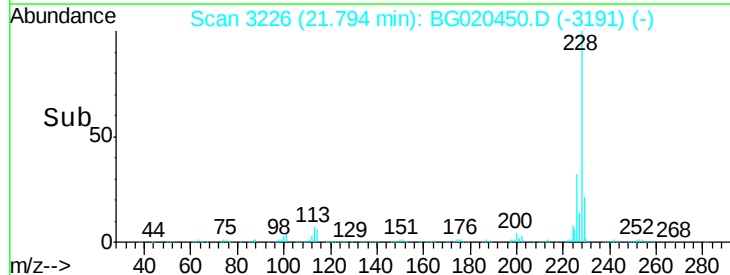
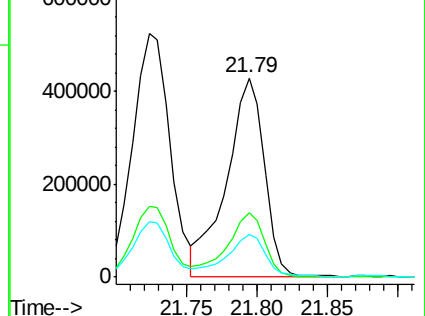
229 21.6 15.6 23.4

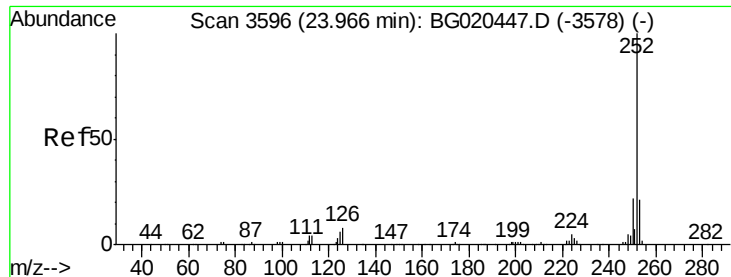


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#88

Benzo(b)fluoranthene

Concen: 42.52 ng/ul

RT: 23.97 min Scan# 3597

Delta R.T. 0.01 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

Instrument :

BNA_G

ClientSampleId :

D9N51DL

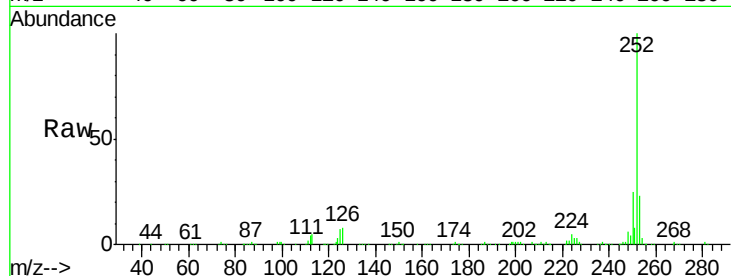
Tgt Ion:252 Resp: 454636

Ion Ratio Lower Upper

252 100

253 22.9 16.7 25.1

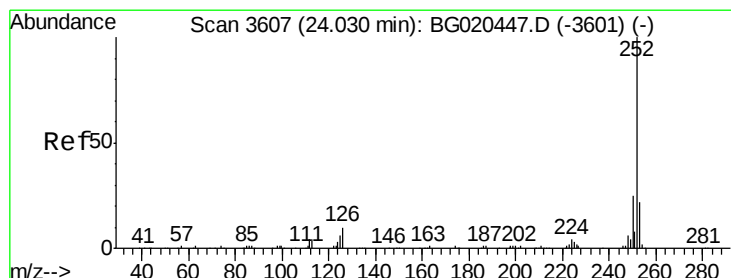
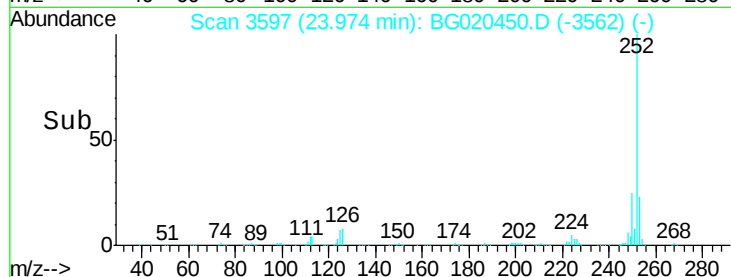
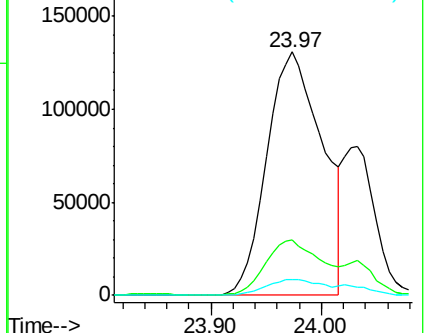
125 6.7 6.2 9.2



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



#89

Benzo(k)fluoranthene

Concen: 44.31 ng/ul

RT: 23.97 min Scan# 3597

Delta R.T. -0.06 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

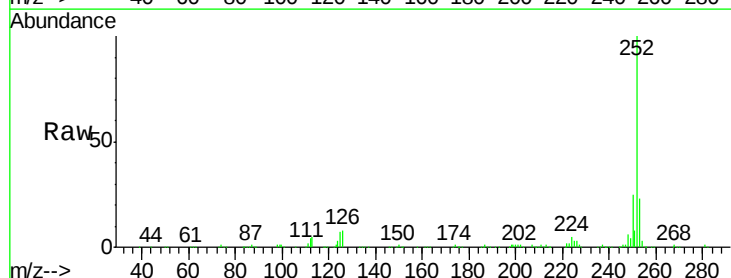
Tgt Ion:252 Resp: 454636

Ion Ratio Lower Upper

252 100

253 22.9 17.9 26.9

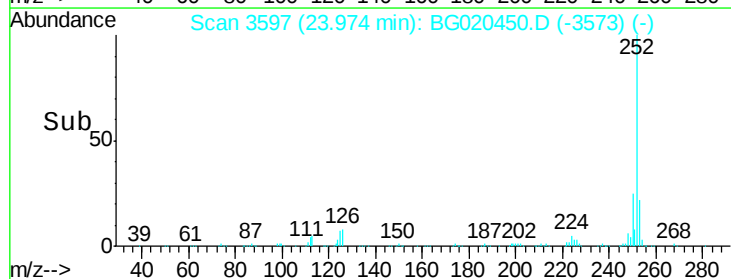
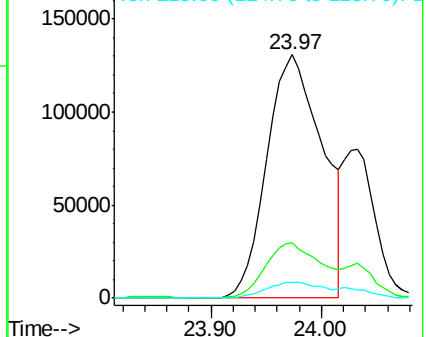
125 6.7 5.8 8.6

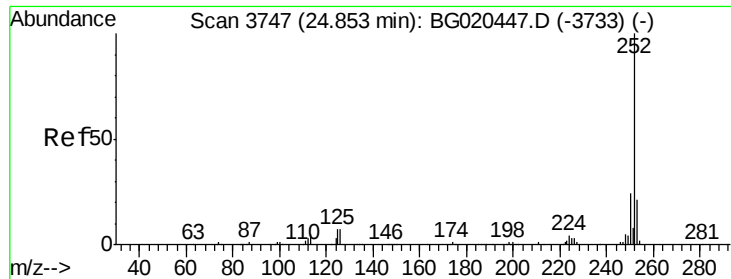


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 25.05 ng/ul

RT: 24.86 min Scan# 3747

Delta R.T. 0.00 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

Instrument :

BNA_G

ClientSampleId :

D9N51DL

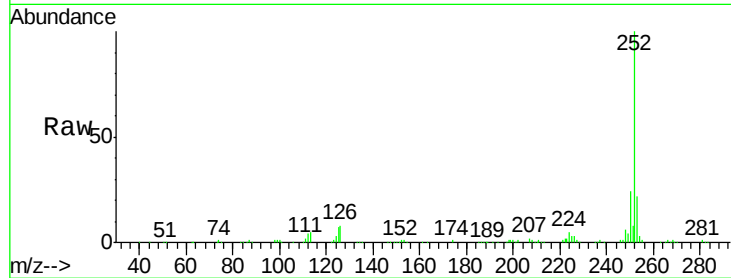
Tgt Ion:252 Resp: 253917

Ion Ratio Lower Upper

252 100

253 22.2 17.0 25.4

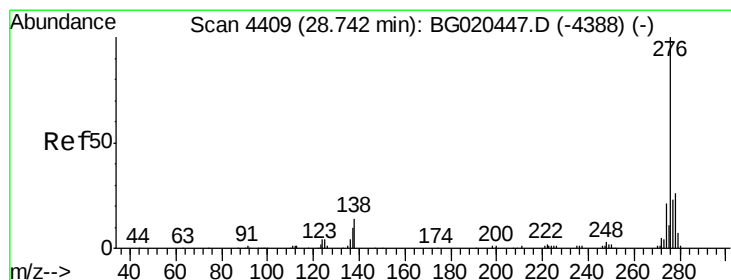
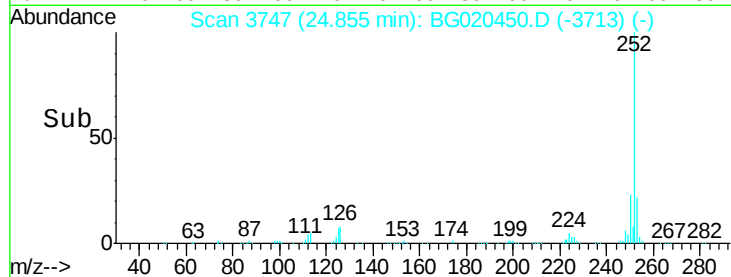
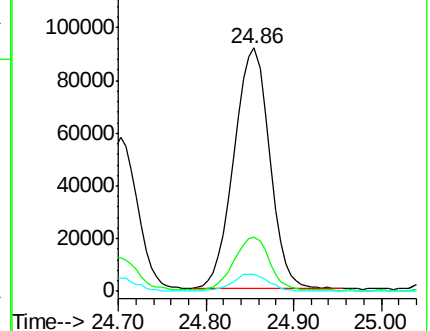
125 6.8 6.2 9.4



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 5.65 ng/ul

RT: 28.73 min Scan# 4407

Delta R.T. -0.01 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

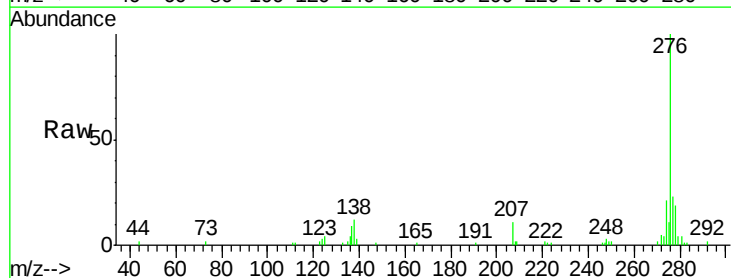
Tgt Ion:276 Resp: 68158

Ion Ratio Lower Upper

276 100

138 12.1 11.4 17.0

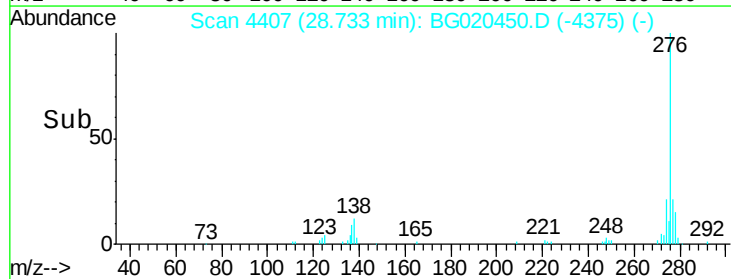
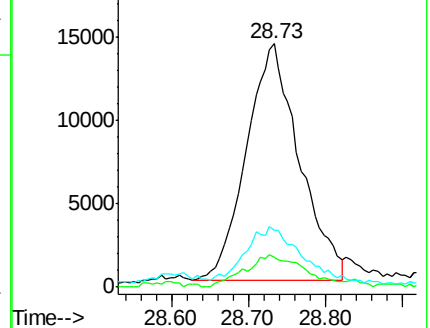
277 23.1 17.4 26.0

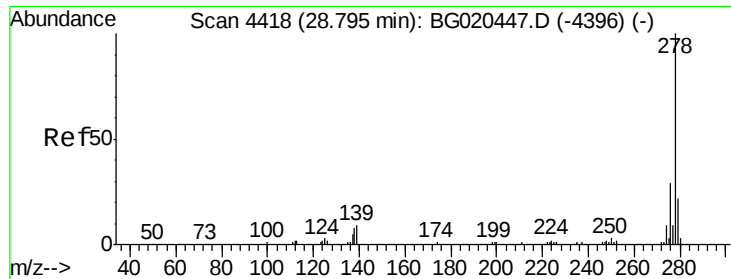


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 2.03 ng/ul

RT: 28.78 min Scan# 4415

Delta R.T. -0.02 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

Instrument :

BNA_G

ClientSampleId :

D9N51DL

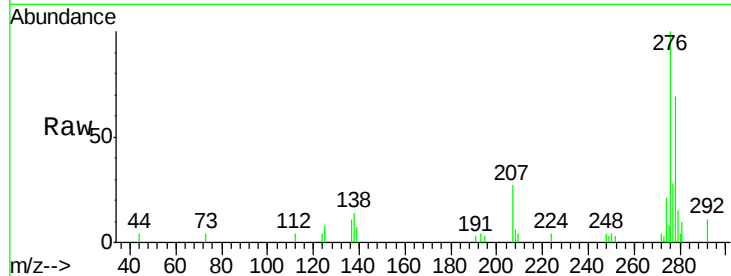
Tgt Ion:278 Resp: 20302

Ion Ratio Lower Upper

278 100

139 9.8 9.4 14.2

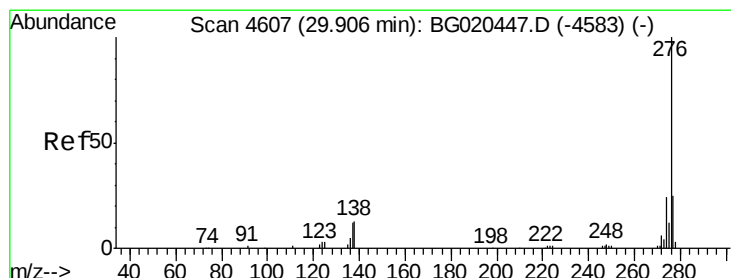
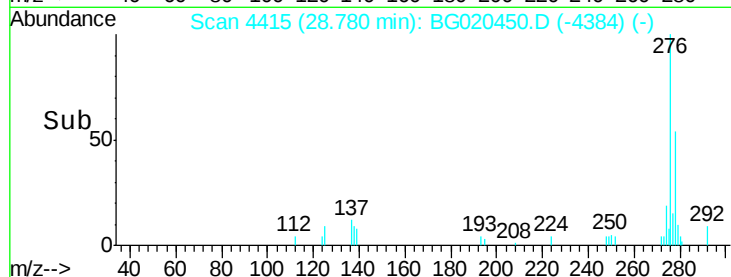
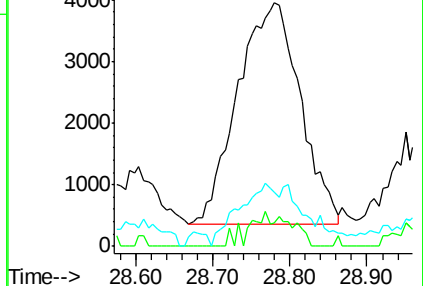
279 22.2 19.4 29.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#94

Benzo(g,h,i)perylene

Concen: 2.63 ng/ul

RT: 29.90 min Scan# 4605

Delta R.T. -0.01 min

Lab File: BG020450.D

Acq: 23 Dec 2015 19:27

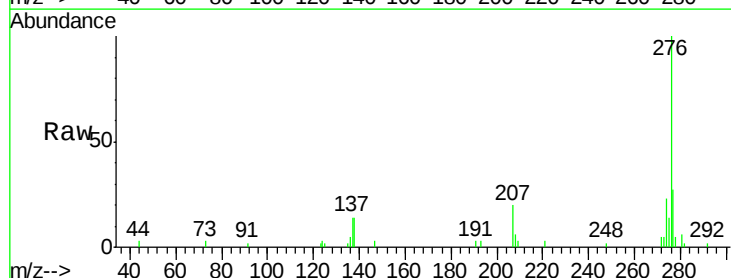
Tgt Ion:276 Resp: 26047

Ion Ratio Lower Upper

276 100

138 14.4 10.8 16.2

277 27.2 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

