

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
 Data File : BG020240.D
 Acq On : 17 Dec 2015 3:26
 Operator : UM/SJ
 Sample : G4767-20
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N42

Quant Time: Dec 17 06:09:42 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 17 03:53:00 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	25020	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	117457	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.73	164	84061	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.48	188	187350	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	217030	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	208109	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	2013	4.44	ng/uL	0.00
5) Phenol-d5	7.25	99	60130	27.26	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	36578	27.79	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	46961	29.27	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	54867	29.08	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	25630	27.99	ng/ul	0.00
22) 2-Nitrophenol-d4	9.98	143	30753	30.18	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	57184	27.71	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	73712	31.80	ng/ul	0.00
44) Dimethylphthalate-d6	14.13	166	187179	27.53	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	183567	23.20	ng/ul	0.00
52) 4-Nitrophenol-d4	14.91	143	30038	24.63	ng/ul	0.00
58) Fluorene-d10	15.72	176	134543	21.82	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.84	200	18210	16.40	ng/ul	0.01
71) Anthracene-d10	17.58	188	205245	23.78	ng/ul	0.01
79) Pyrene-d10	19.86	212	235562	23.29	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.79	264	268922	25.91	ng/ul	0.00

Target Compounds

						Qvalue
6) Phenol	7.28	94	4251	1.80	ng/ul	92
16) 4-Methylphenol	8.86	108	3427	1.72	ng/ul	98
17) Hexachloroethane	9.22	117	750	1.06	ng/ul#	1
24) 2,4-Dimethylphenol	10.07	107	2622	1.06	ng/ul#	84
28) Naphthalene	10.98	128	2722056	443.78	ng/ul#	85
30) 4-Chloroaniline	10.99	127	460107	194.43	ng/ul#	13
34) 2-Methylnaphthalene	12.57	142	866195	184.88	ng/ul	97
35) 1-Methylnaphthalene	12.79	142	435964	96.79	ng/ul#	98
41) 1,1'-Biphenyl	13.56	154	352979	55.66	ng/ul	96
45) Dimethylphthalate	14.17	163	90280	13.00	ng/ul	98
48) Acenaphthylene	14.45	152	124851	14.86	ng/ul#	97
50) Acenaphthene	14.81	153	1406715	248.77	ng/ul	94
53) 4-Nitrophenol	14.81	109	3226	2.75	ng/ul#	1
54) Dibenzofuran	15.13	168	1451071	172.50	ng/ul	90
55) 2,4-Dinitrotoluene	15.07	165	2191	1.04	ng/ul#	53
59) Fluorene	15.78	166	1367182	202.39	ng/ul#	98
61) 4-Nitroaniline	15.78	138	19757	13.10	ng/ul#	14
70) Phenanthrene	17.62	178	674672	65.84	ng/ul	98
72) Anthracene	17.62	178	674672	64.91	ng/ul	96
75) Carbazole	17.88	167	597849	68.46	ng/ul	98
77) Fluoranthene	19.53	202	2531381	211.36	ng/ul#	88
80) Pyrene	19.89	202	1915035	145.79	ng/ul#	94
83) Benzo(a)anthracene	21.72	228	515727	40.73	ng/ul	96

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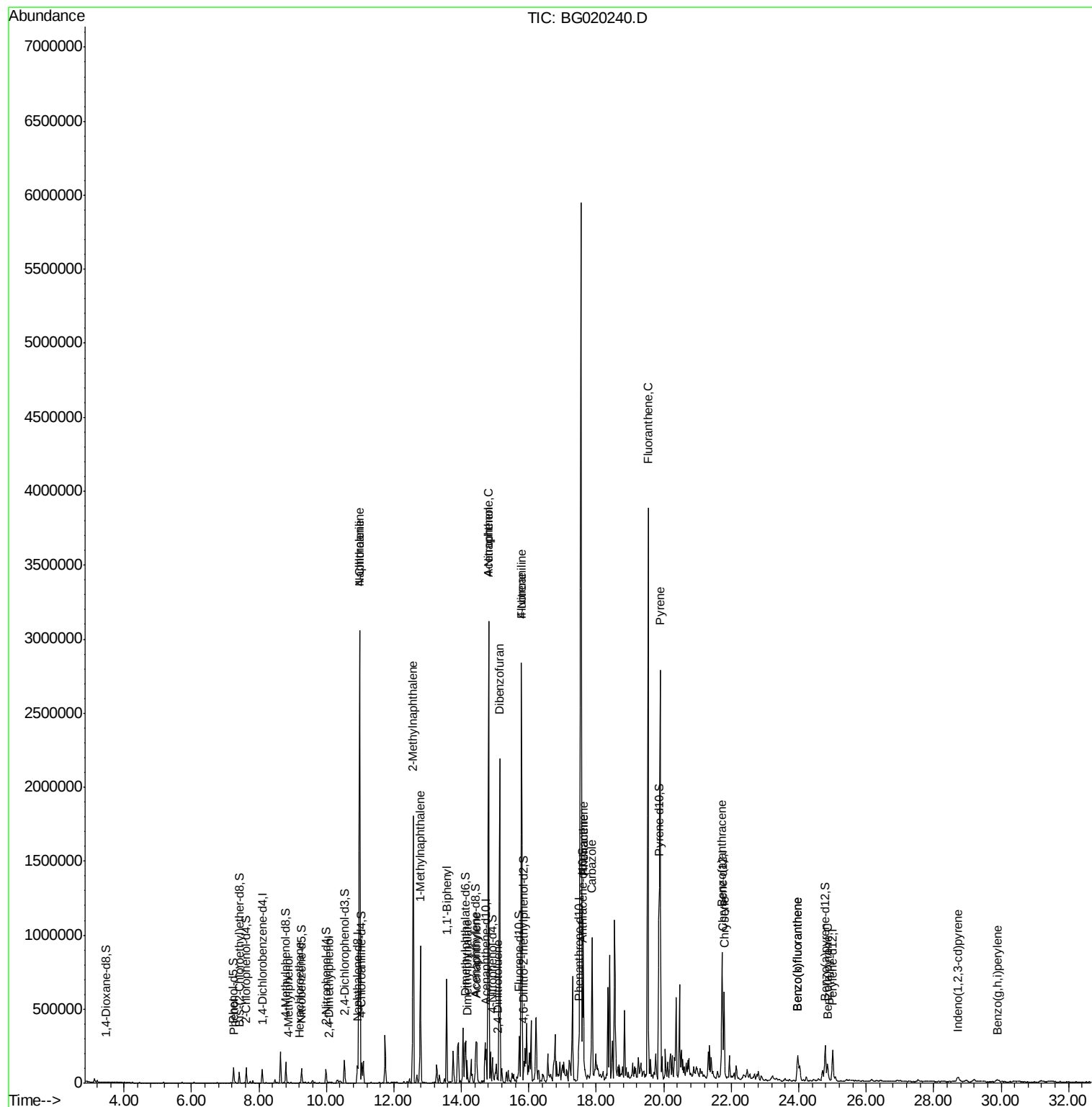
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) Chrysene	21.79	228	413310	34.65	ng/ul	96
88) Benzo(b)fluoranthene	23.97	252	231548	18.49	ng/ul	95
89) Benzo(k)fluoranthene	23.97	252	231548	19.26	ng/ul	97
91) Benzo(a)pyrene	24.86	252	134056	11.29	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.72	276	38508	2.72	ng/ul#	93
94) Benzo(g,h,i)perylene	29.88	276	21131	1.82	ng/ul#	96

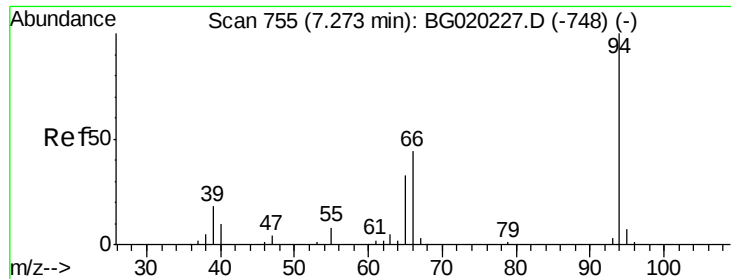
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 1.80 ng/ul

RT: 7.28 min Scan# 755

Delta R.T. 0.00 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

ClientSampleId :

D9N42

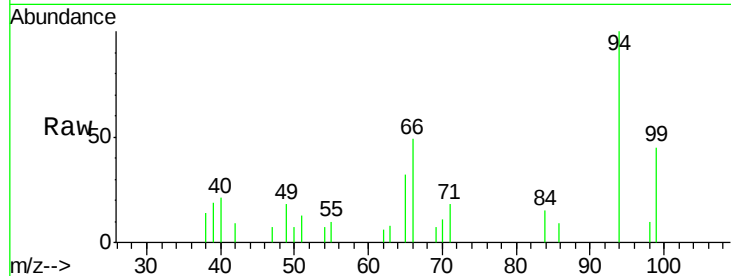
Tgt Ion: 94 Resp: 4251

Ion Ratio Lower Upper

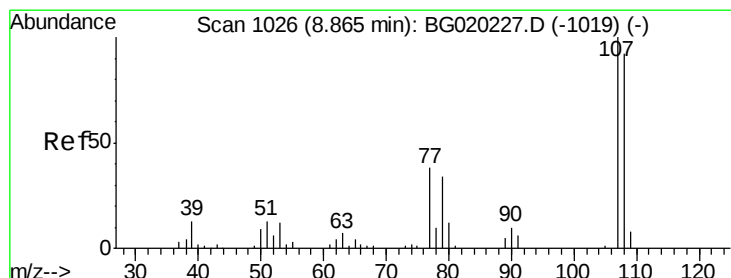
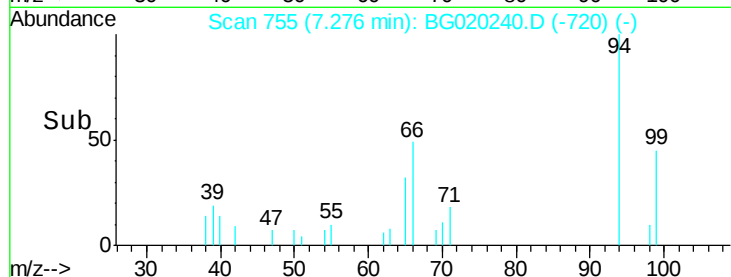
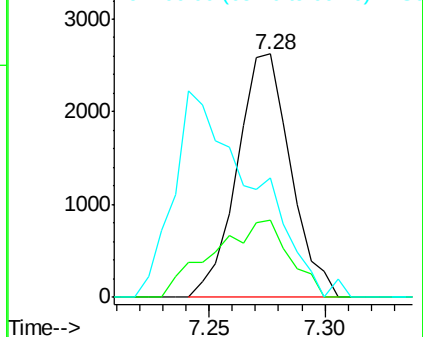
94 100

65 31.7 26.3 39.5

66 49.1 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



#16

4-Methylphenol

Concen: 1.72 ng/ul

RT: 8.86 min Scan# 1024

Delta R.T. -0.01 min

Lab File: BG020240.D

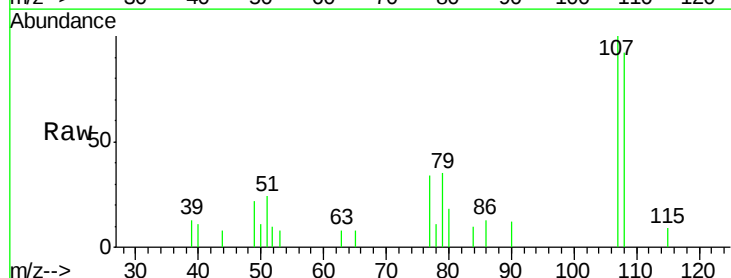
Acq: 17 Dec 2015 3:26

Tgt Ion: 108 Resp: 3427

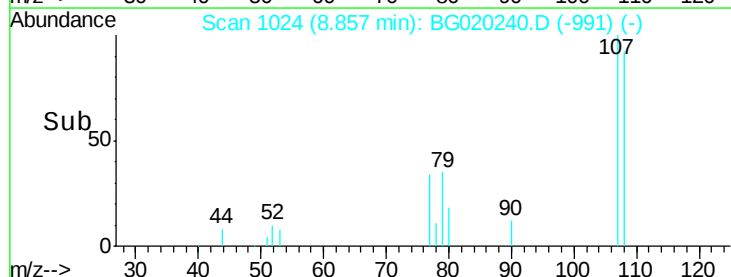
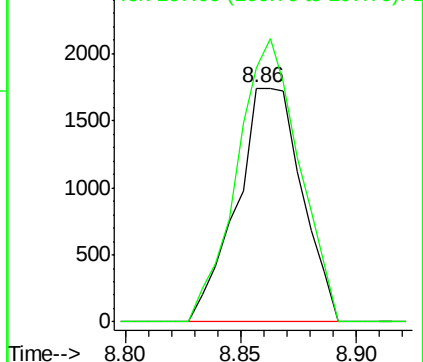
Ion Ratio Lower Upper

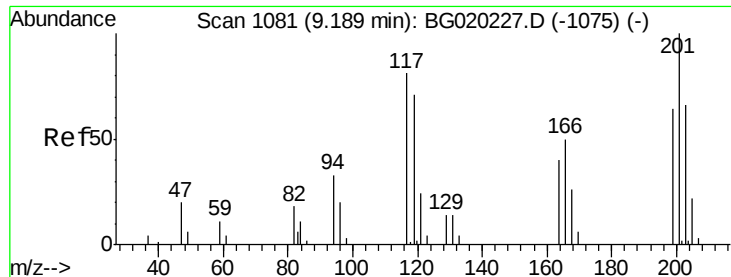
108 100

107 108.5 88.9 133.3



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

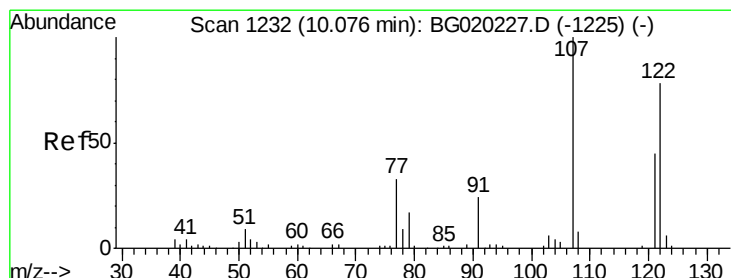
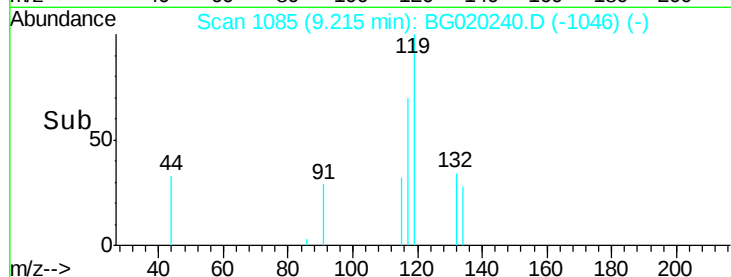
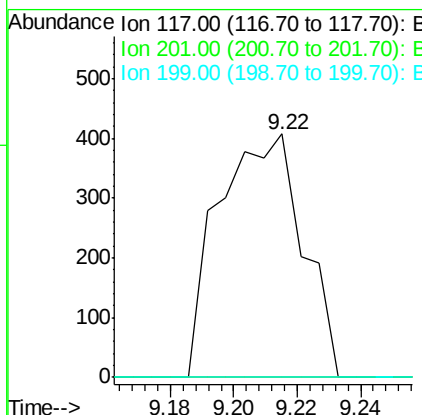
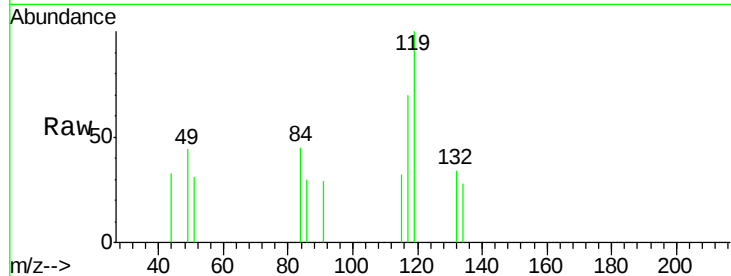




#17
 Hexachloroethane
 Concen: 1.06 ng/ul
 RT: 9.22 min Scan# 1085
 Delta R.T. 0.03 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

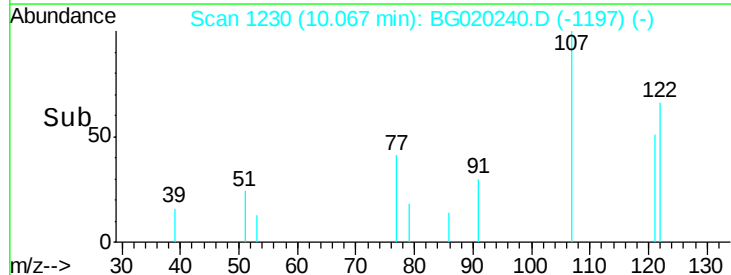
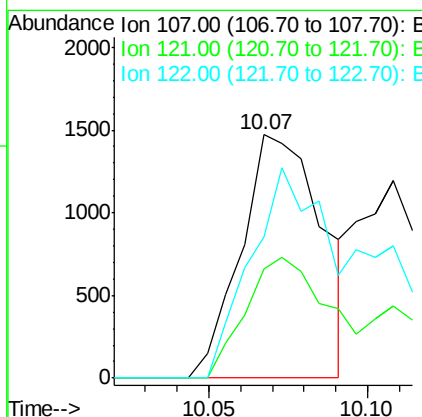
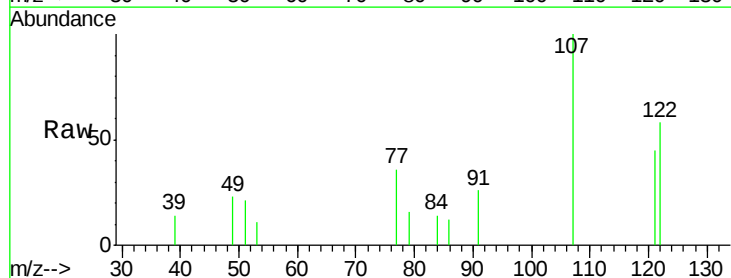
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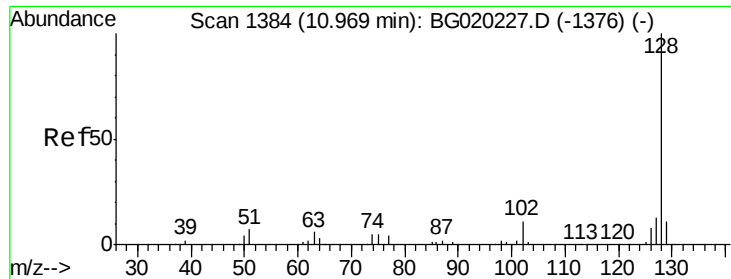
Tgt Ion: 117 Resp: 750
 Ion Ratio Lower Upper
 117 100
 201 0.0 102.7 154.1#
 199 0.0 65.8 98.8#



#24
 2,4-Dimethylphenol
 Concen: 1.06 ng/ul
 RT: 10.07 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Tgt Ion: 107 Resp: 2622
 Ion Ratio Lower Upper
 107 100
 121 44.8 39.0 58.4
 122 58.0 62.1 93.1#

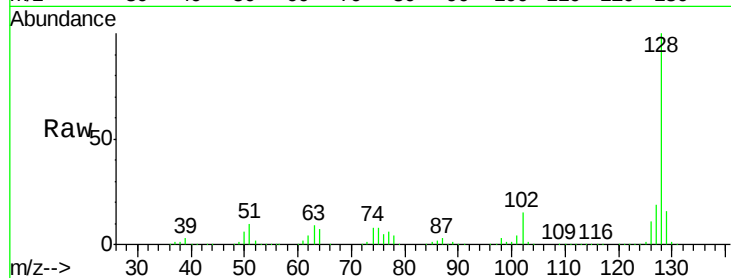




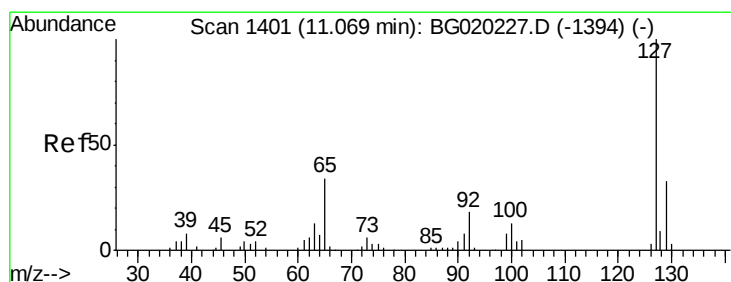
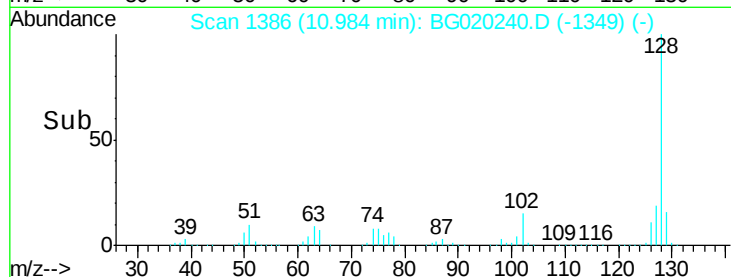
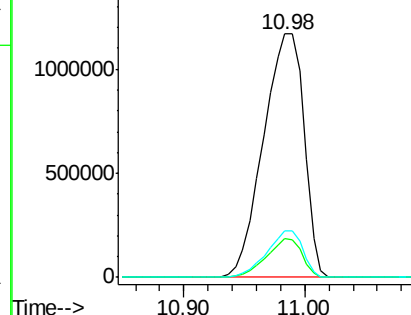
#28
Naphthalene
Concen: 443.78 ng/ul
RT: 10.98 min Scan# 1386
Delta R.T. 0.01 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Instrument :
BNA_G
ClientSampleId :
D9N42

Tgt Ion:128 Resp: 2722056
Ion Ratio Lower Upper
128 100
129 15.8 8.6 12.8#
127 19.0 10.1 15.1#

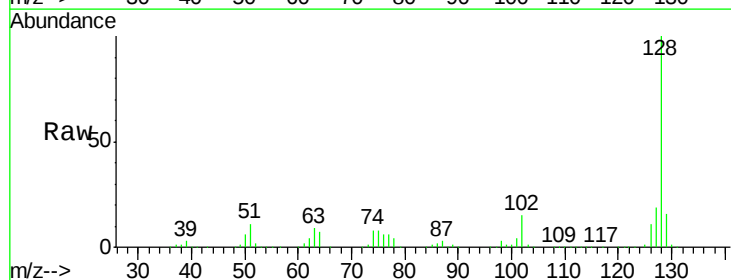


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

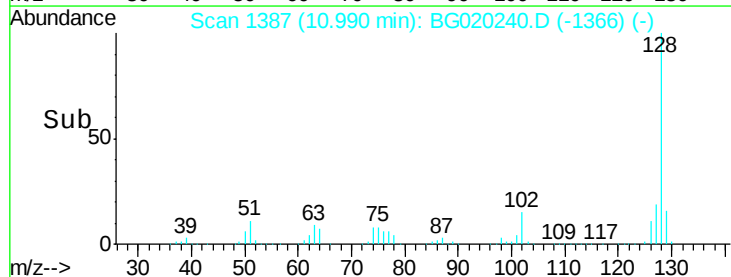
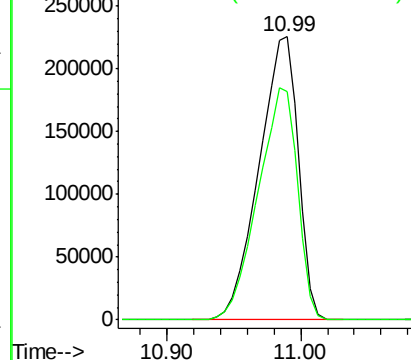


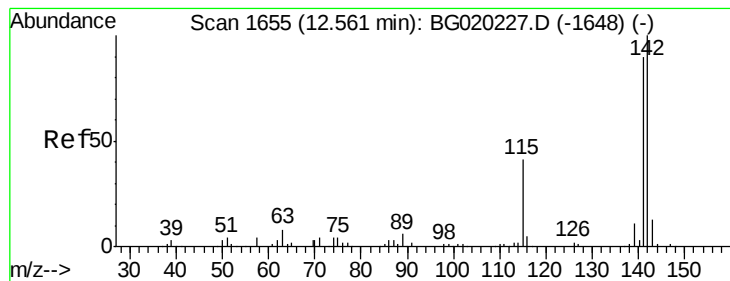
#30
4-Chloroaniline
Concen: 194.43 ng/ul
RT: 10.99 min Scan# 1387
Delta R.T. -0.08 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Tgt Ion:127 Resp: 460107
Ion Ratio Lower Upper
127 100
129 80.7 25.7 38.5#



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





#34

2-Methylnaphthalene

Concen: 184.88 ng/ul

RT: 12.57 min Scan# 1656

Delta R.T. 0.01 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

ClientSampleId :

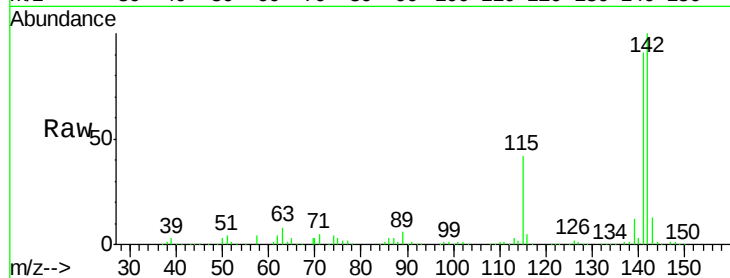
D9N42

Tgt Ion:142 Resp: 866195

Ion Ratio Lower Upper

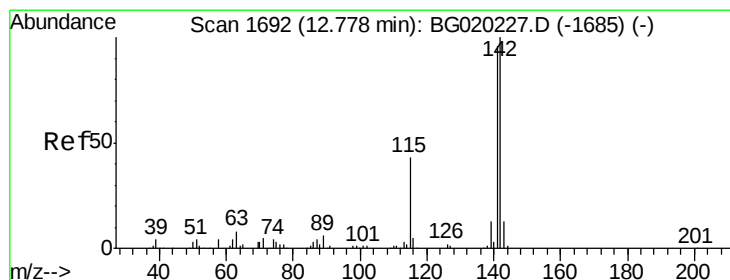
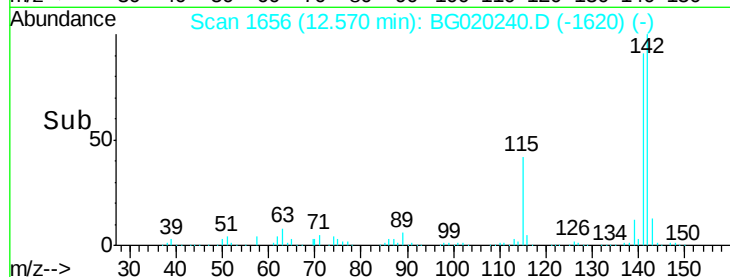
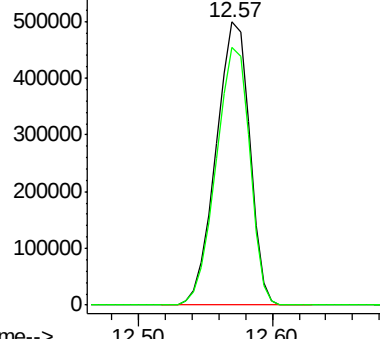
142 100

141 91.1 74.9 112.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#35

1-Methylnaphthalene

Concen: 96.79 ng/ul

RT: 12.79 min Scan# 1693

Delta R.T. 0.01 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

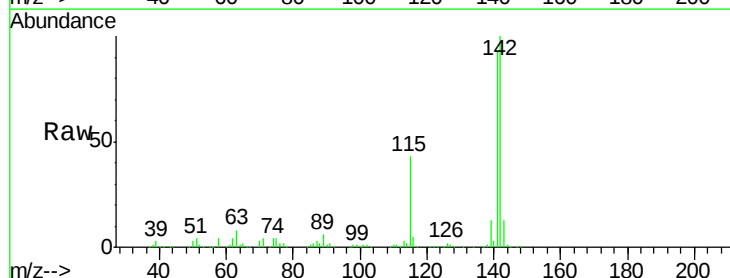
Tgt Ion:142 Resp: 435964

Ion Ratio Lower Upper

142 100

141 93.4 73.0 109.6

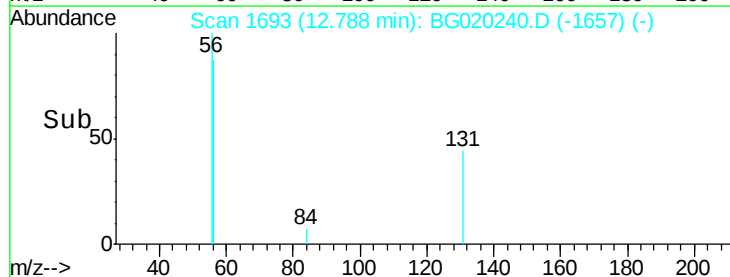
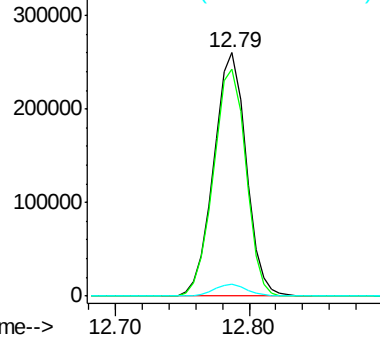
116 4.7 3.0 4.6#

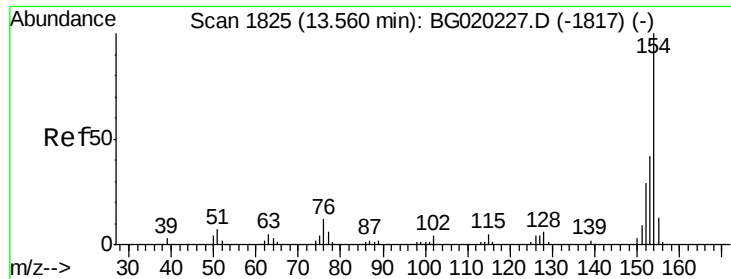


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

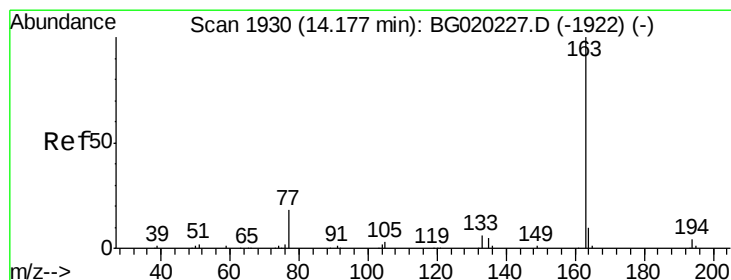
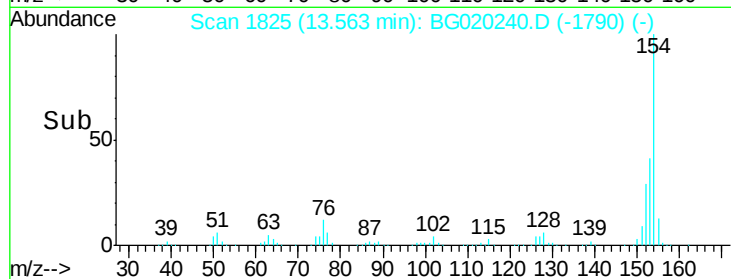
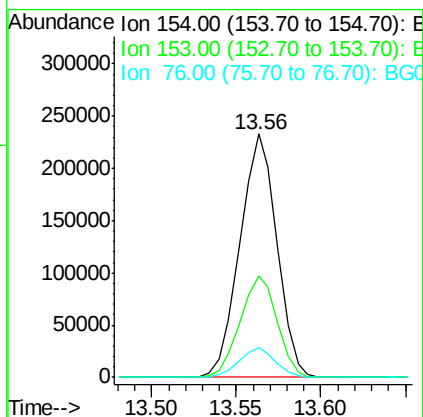
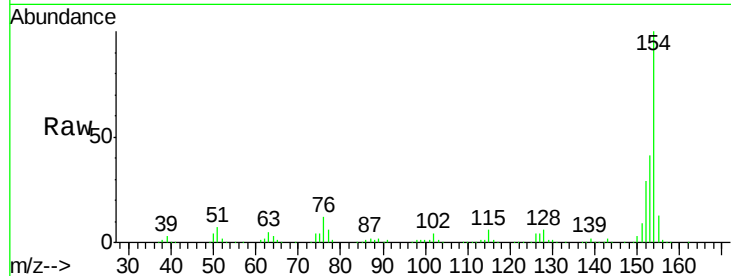




#41
 1,1'-Biphenyl
 Concen: 55.66 ng/ul
 RT: 13.56 min Scan# 1825
 Delta R.T. 0.00 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

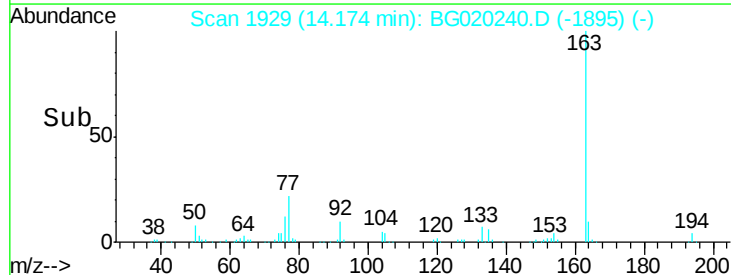
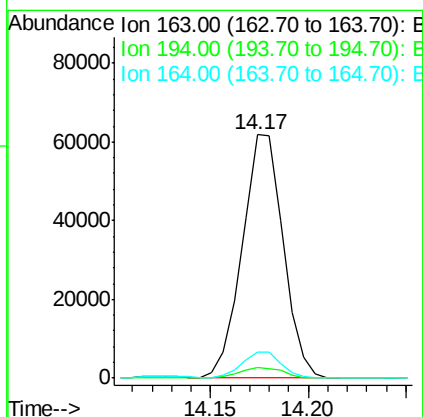
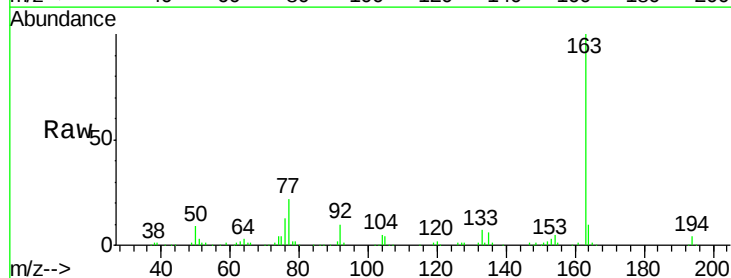
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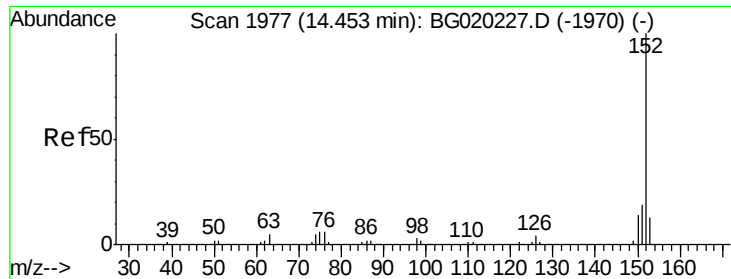
Tgt Ion:154 Resp: 352979
 Ion Ratio Lower Upper
 154 100
 153 41.5 35.5 53.3
 76 12.2 10.4 15.6



#45
 Dimethylphthalate
 Concen: 13.00 ng/ul
 RT: 14.17 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Tgt Ion:163 Resp: 90280
 Ion Ratio Lower Upper
 163 100
 194 4.3 3.5 5.3
 164 10.5 7.7 11.5





#48

Acenaphthylene

Concen: 14.86 ng/ul

RT: 14.45 min Scan# 1976

Delta R.T. -0.00 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

ClientSampled :

D9N42

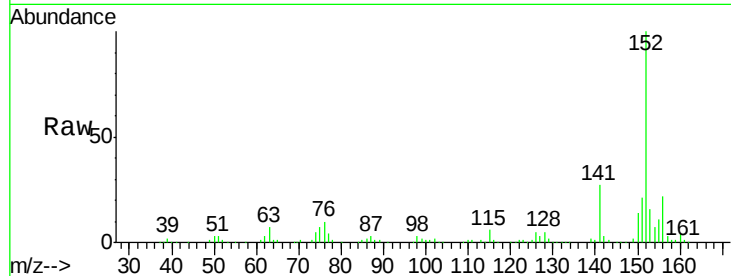
Tgt Ion:152 Resp: 124851

Ion Ratio Lower Upper

152 100

151 20.7 16.4 24.6

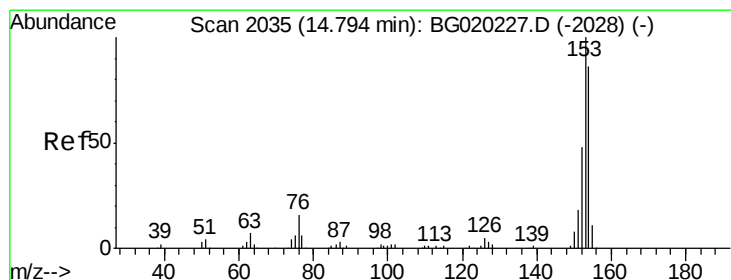
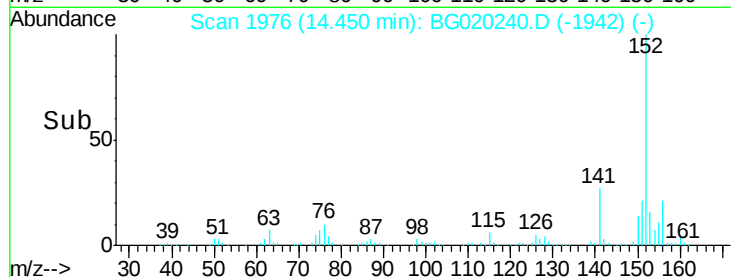
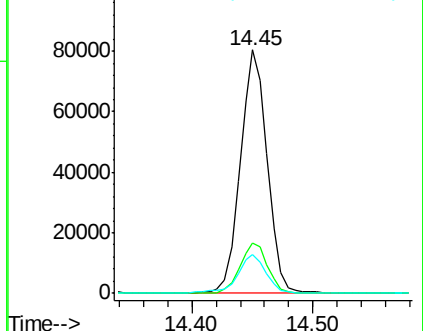
153 15.7 10.4 15.6#



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: 248.77 ng/ul

RT: 14.81 min Scan# 2037

Delta R.T. 0.01 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

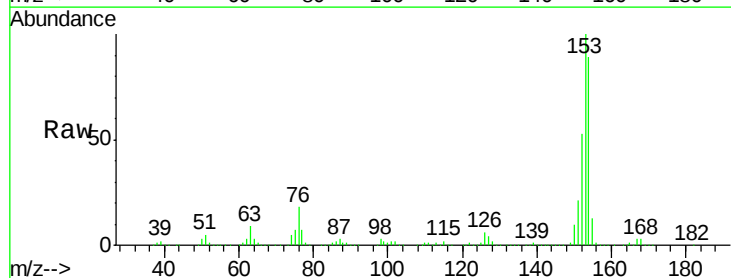
Tgt Ion:153 Resp: 1406715

Ion Ratio Lower Upper

153 100

152 53.1 37.6 56.4

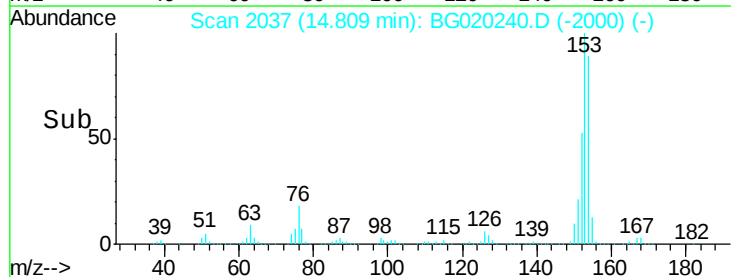
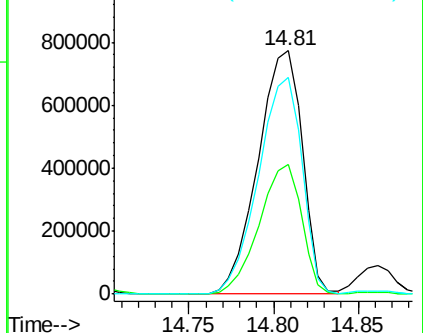
154 89.2 67.9 101.9

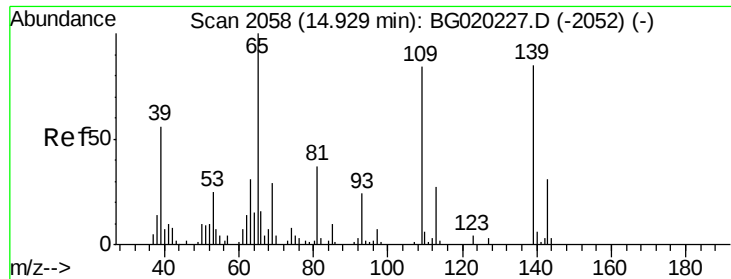


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

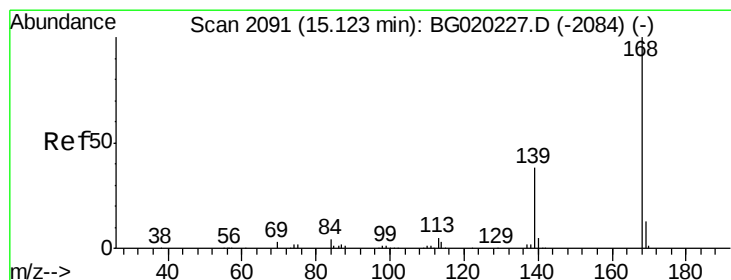
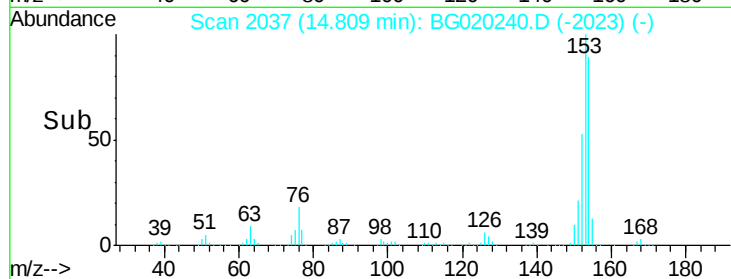
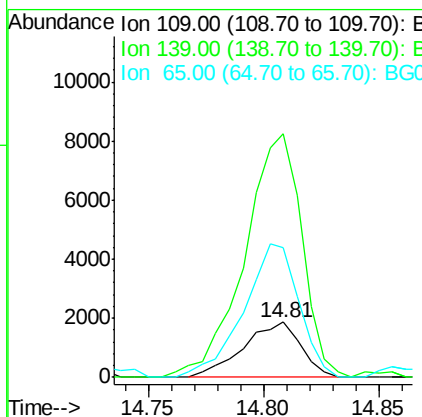
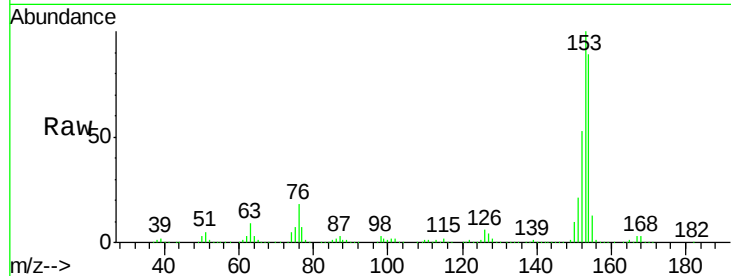




#53
4-Nitrophenol
Concen: 2.75 ng/ul
RT: 14.81 min Scan# 2037
Delta R.T. -0.12 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

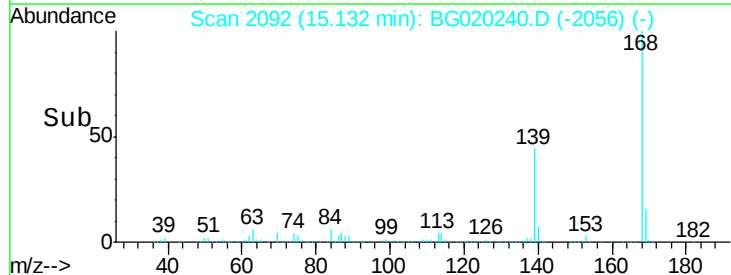
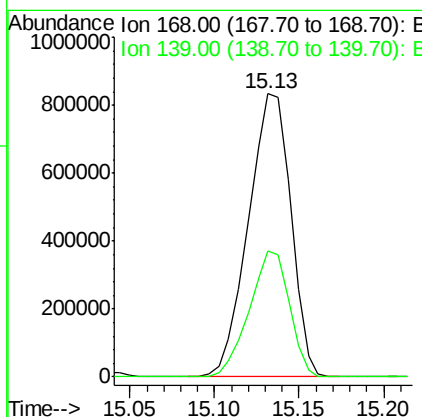
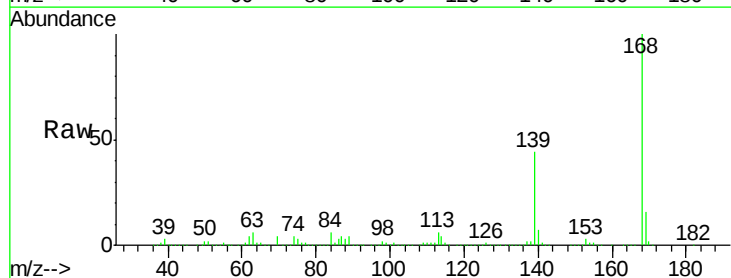
Instrument :
BNA_G
ClientSampled :
D9N42

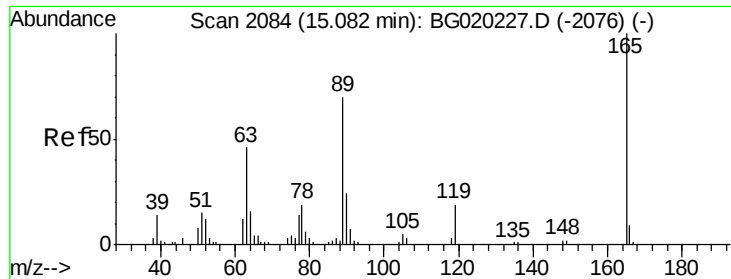
Tgt Ion:109 Resp: 3226
Ion Ratio Lower Upper
109 100
139 441.9 80.5 120.7#
65 236.0 93.4 140.2#



#54
Dibenzofuran
Concen: 172.50 ng/ul
RT: 15.13 min Scan# 2092
Delta R.T. 0.01 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Tgt Ion:168 Resp: 1451071
Ion Ratio Lower Upper
168 100
139 44.3 30.5 45.7





#55

2,4-Dinitrotoluene

Concen: 1.04 ng/ul

RT: 15.07 min Scan# 2082

Delta R.T. -0.01 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

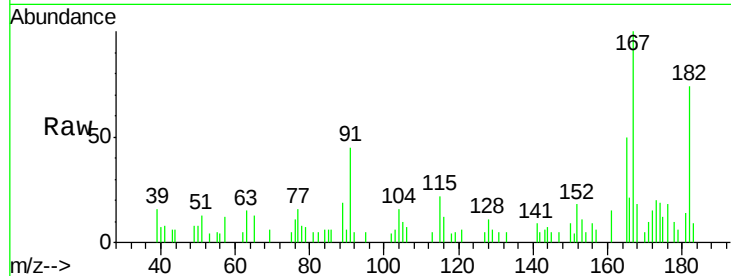
Instrument :

BNA_G

ClientSampleId :

D9N42

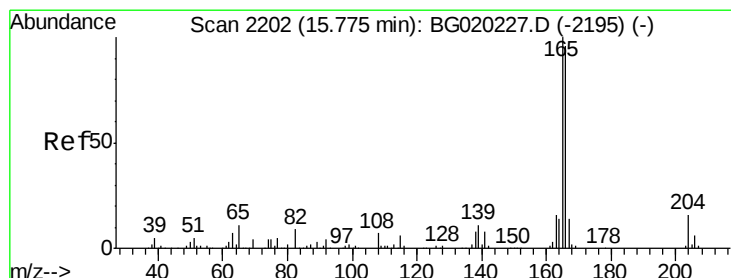
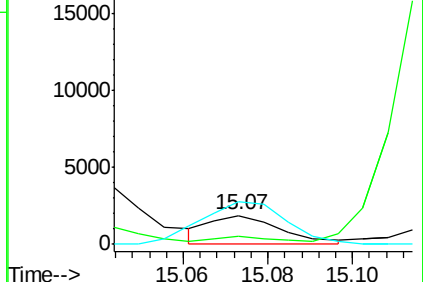
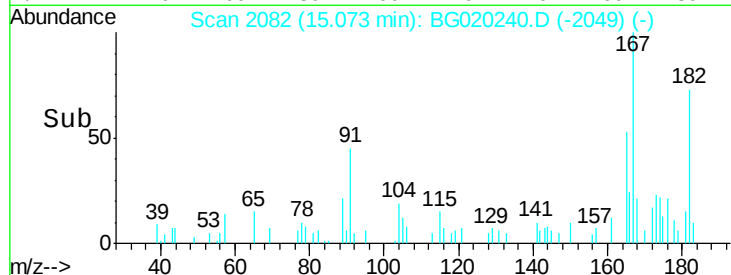
Tgt Ion:	165	Resp:	2191
Ion	Ratio	Lower	Upper
165	100		
63	29.0	35.8	53.8#
182	147.4	2.2	3.2#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 182.00 (181.70 to 182.70): E



#59

Fluorene

Concen: 202.39 ng/ul

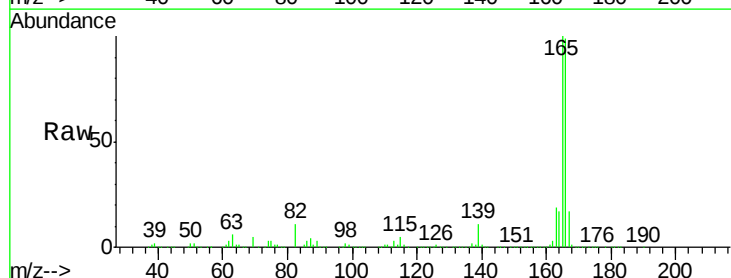
RT: 15.78 min Scan# 2203

Delta R.T. 0.01 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

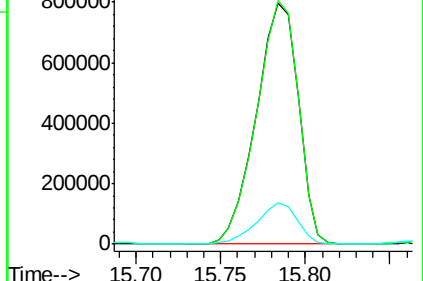
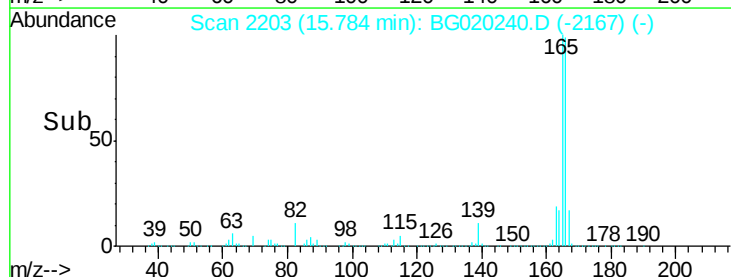
Tgt Ion:	166	Resp:	1367182
Ion	Ratio	Lower	Upper
166	100		
165	100.8	81.4	122.0
167	17.0	11.2	16.8#

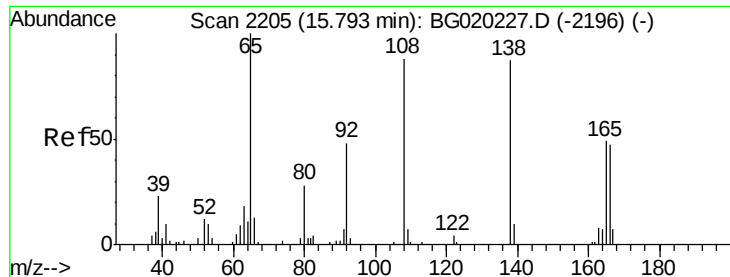


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#61

4-Nitroaniline

Concen: 13.10 ng/ul

RT: 15.78 min Scan# 2203

Delta R.T. -0.01 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

ClientSampleId :

D9N42

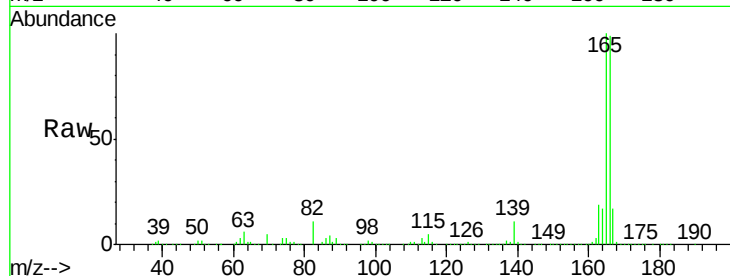
Tgt Ion:138 Resp: 19757

Ion Ratio Lower Upper

138 100

92 1.9 45.2 67.8#

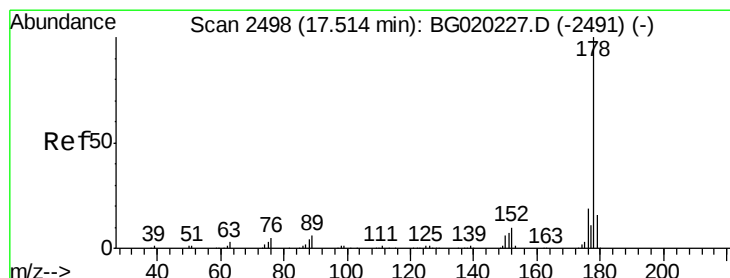
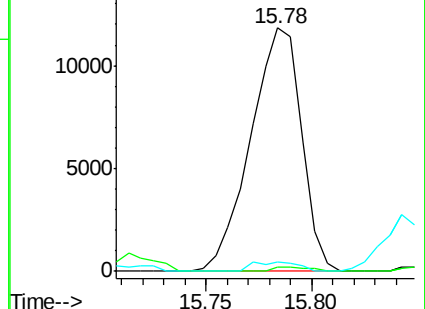
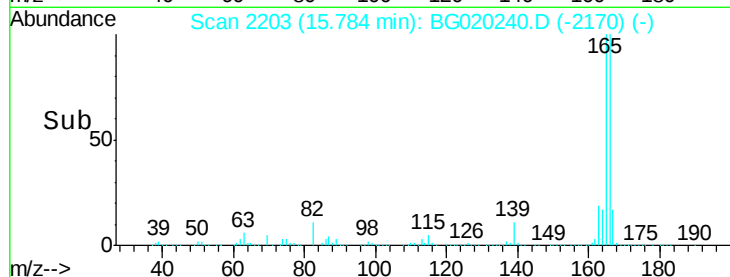
108 4.0 75.4 113.0#



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



#70

Phenanthrene

Concen: 65.84 ng/ul

RT: 17.62 min Scan# 2515

Delta R.T. 0.10 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

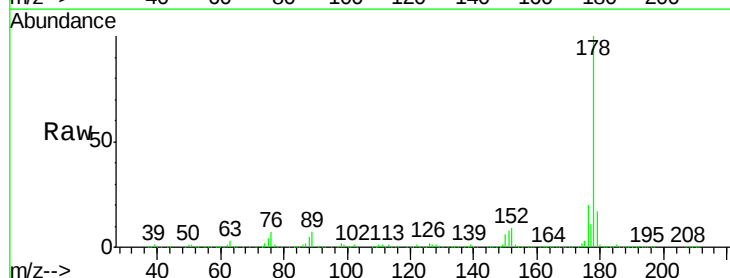
Tgt Ion:178 Resp: 674672

Ion Ratio Lower Upper

178 100

179 17.2 12.9 19.3

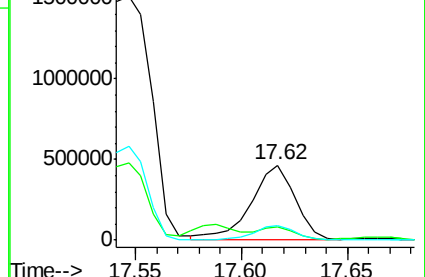
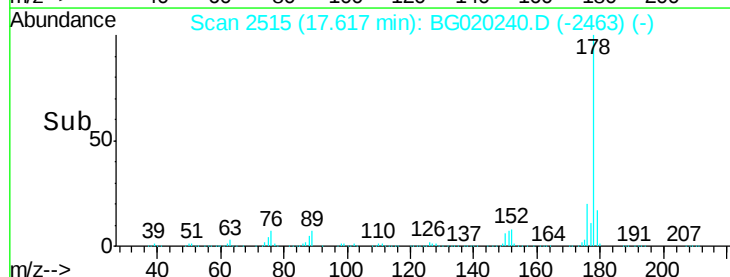
176 19.8 15.3 22.9

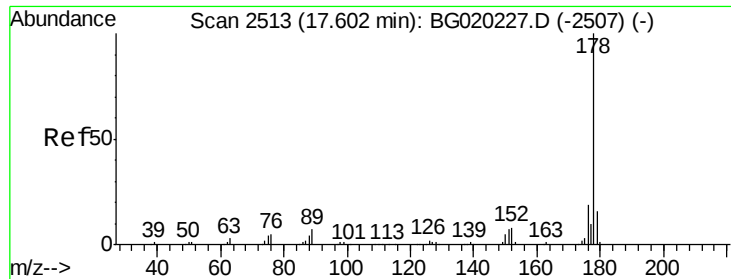


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

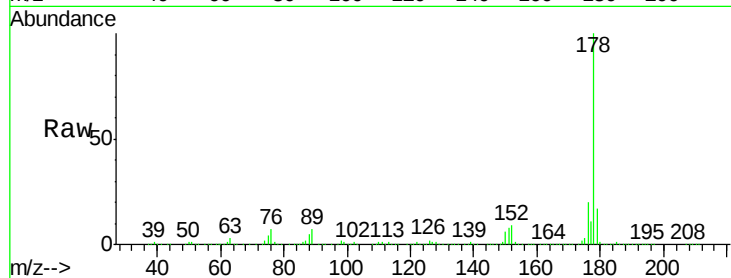




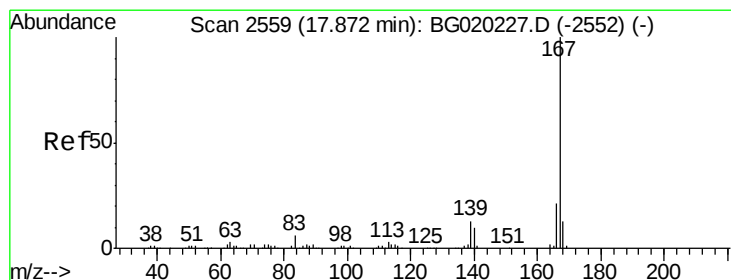
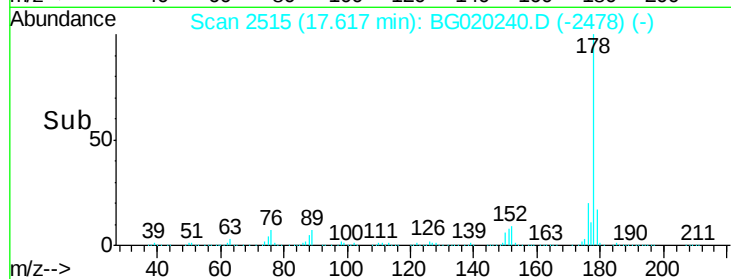
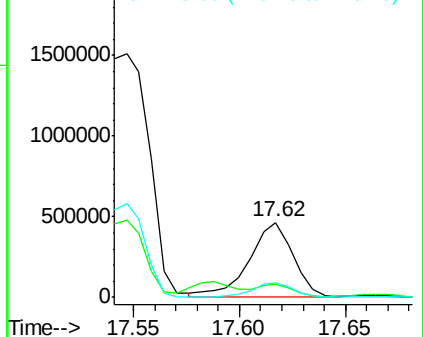
#72
 Anthracene
 Concen: 64.91 ng/ul
 RT: 17.62 min Scan# 2515
 Delta R.T. 0.01 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Instrument :
 BNA_G
 ClientSampleId :
 D9N42

Tgt Ion:178 Resp: 674672
 Ion Ratio Lower Upper
 178 100
 179 17.2 12.3 18.5
 176 19.8 14.3 21.5

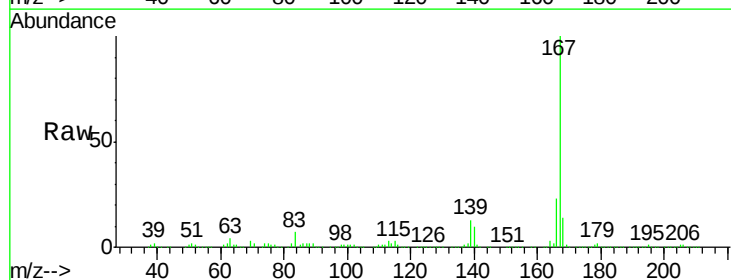


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 179.00 (178.70 to 179.70): E
 Ion 176.00 (175.70 to 176.70): E

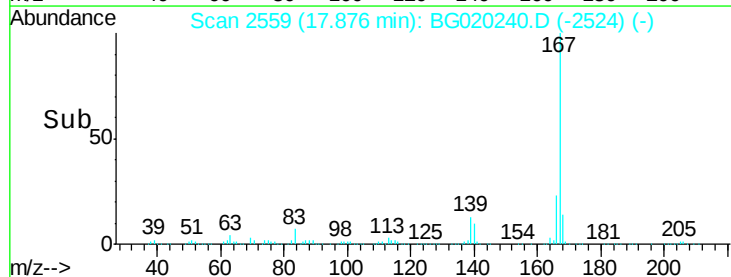
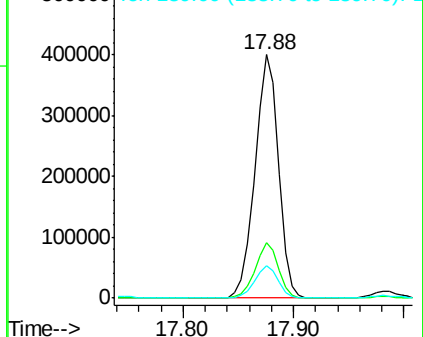


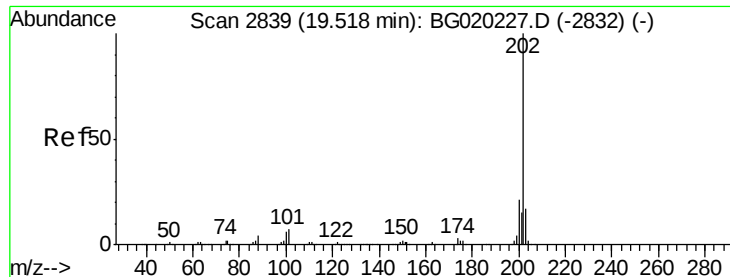
#75
 Carbazole
 Concen: 68.46 ng/ul
 RT: 17.88 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Tgt Ion:167 Resp: 597849
 Ion Ratio Lower Upper
 167 100
 166 22.7 17.0 25.6
 139 13.3 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

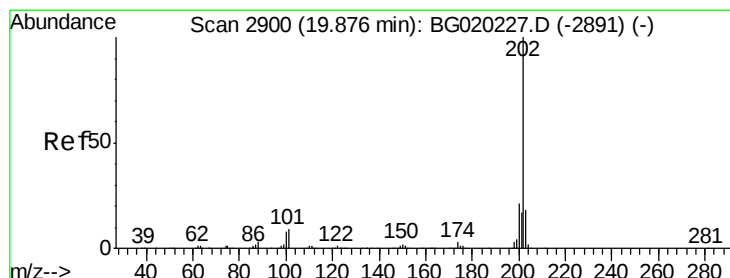
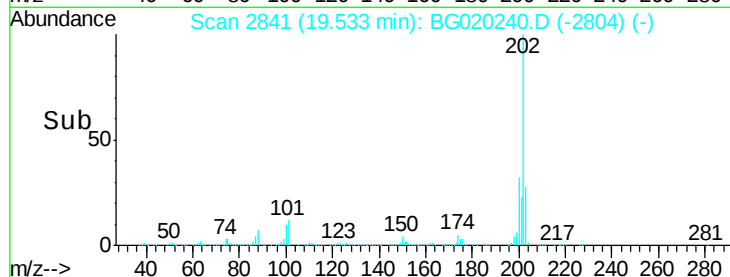
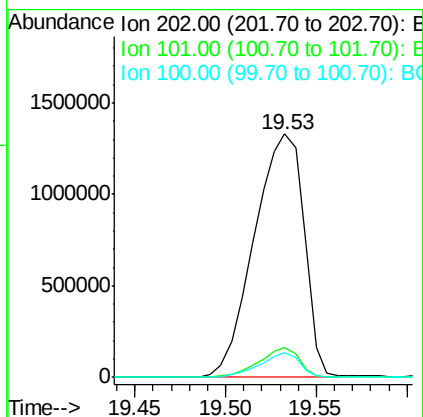
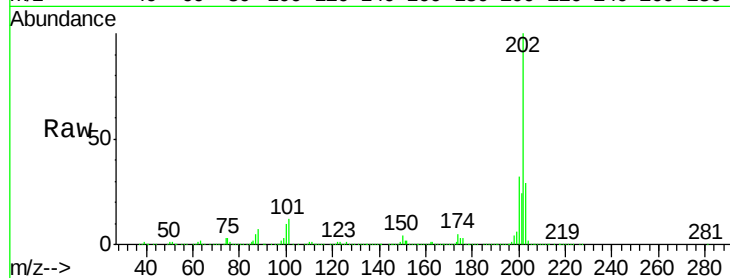




#77
 Fluoranthene
 Concen: 211.36 ng/ul
 RT: 19.53 min Scan# 2841
 Delta R.T. 0.01 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

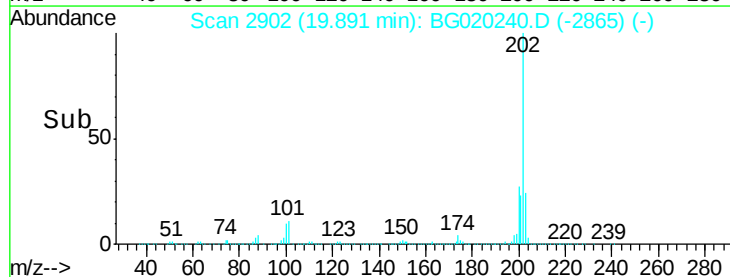
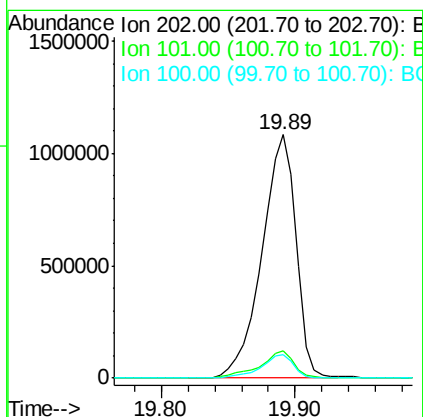
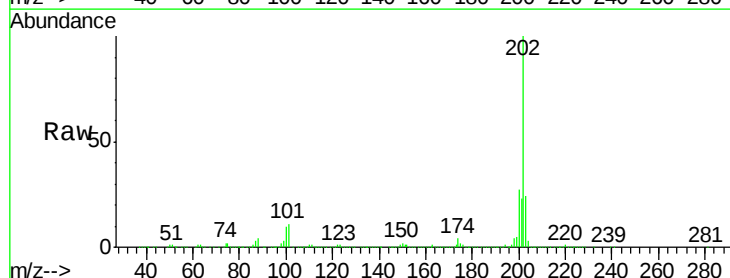
Instrument :
 BNA_G
 ClientSampleId :
 D9N42

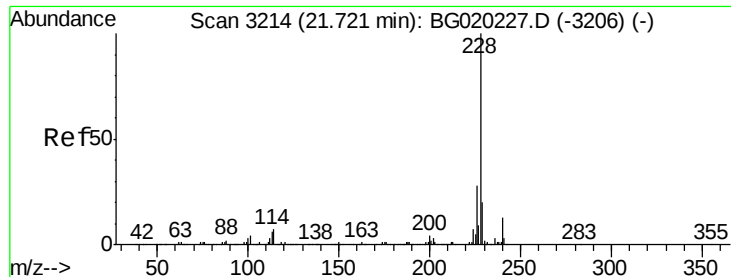
Tgt Ion:202 Resp: 2531381
 Ion Ratio Lower Upper
 202 100
 101 12.5 6.2 9.4#
 100 10.2 5.1 7.7#



#80
 Pyrene
 Concen: 145.79 ng/ul
 RT: 19.89 min Scan# 2902
 Delta R.T. 0.01 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Tgt Ion:202 Resp: 1915035
 Ion Ratio Lower Upper
 202 100
 101 11.1 7.0 10.4#
 100 9.7 6.4 9.6#





#83

Benzo(a)anthracene

Concen: 40.73 ng/ul

RT: 21.72 min Scan# 3214

Delta R.T. 0.00 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

ClientSampleId :

D9N42

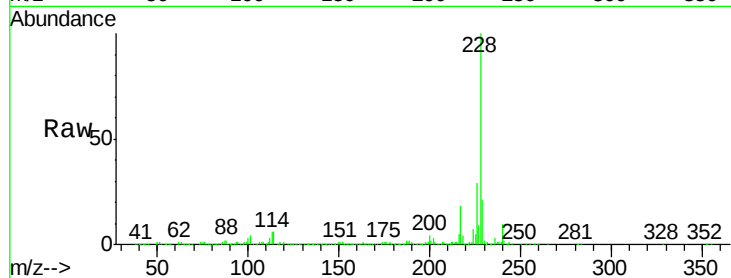
Tgt Ion:228 Resp: 515727

Ion Ratio Lower Upper

228 100

229 21.5 15.8 23.8

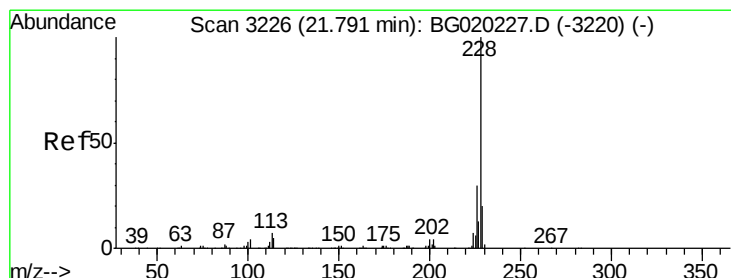
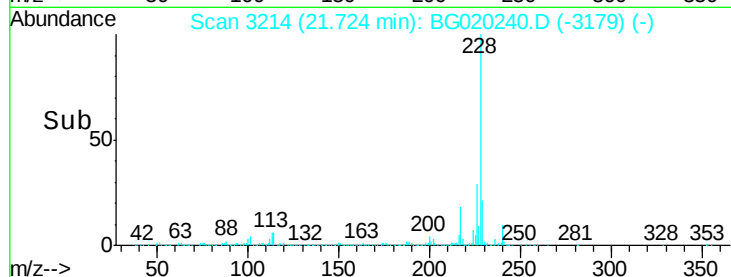
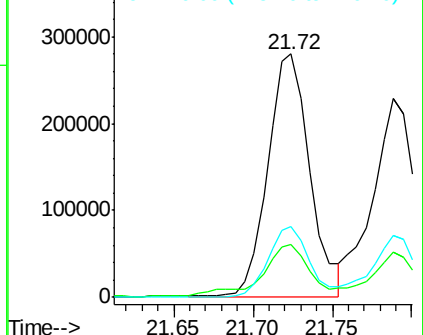
226 29.1 21.8 32.6



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: 34.65 ng/ul

RT: 21.79 min Scan# 3225

Delta R.T. -0.00 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

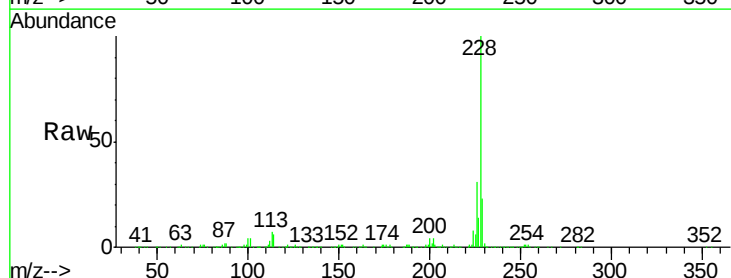
Tgt Ion:228 Resp: 413310

Ion Ratio Lower Upper

228 100

226 31.1 23.9 35.9

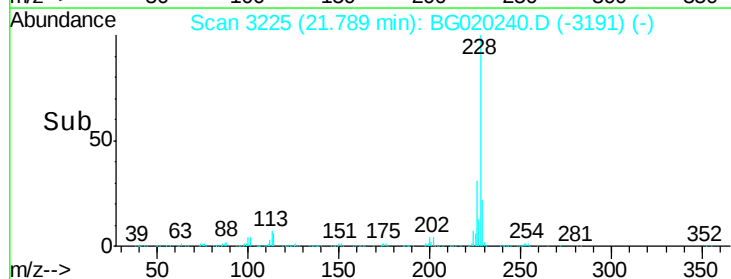
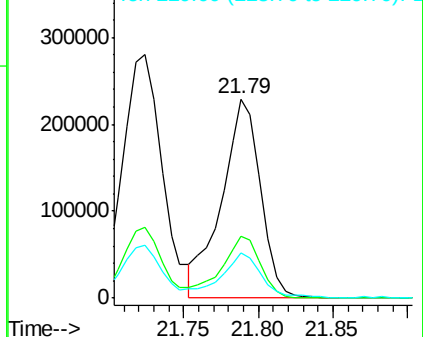
229 22.8 15.6 23.4

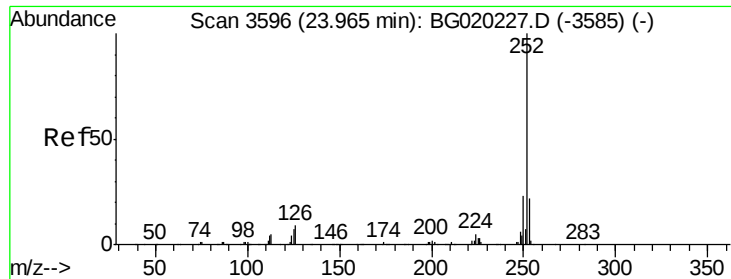


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

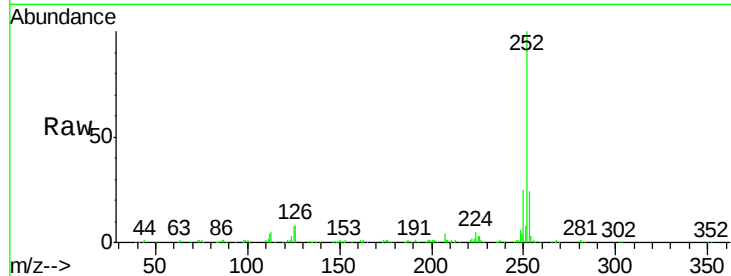




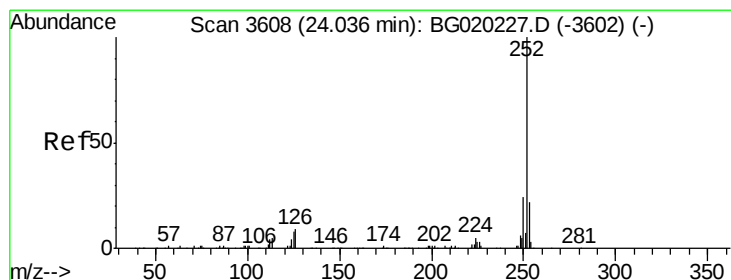
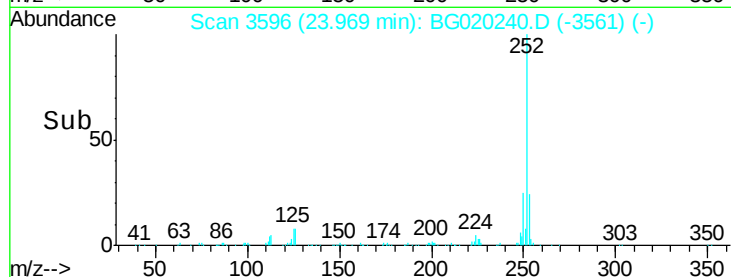
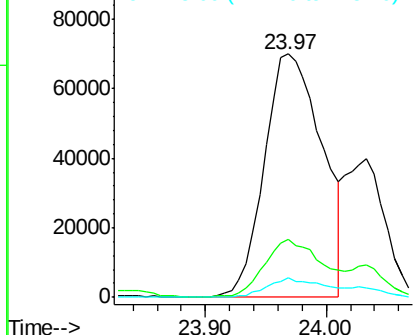
#88
Benzo(b)fluoranthene
Concen: 18.49 ng/ul
RT: 23.97 min Scan# 3596
Delta R.T. 0.00 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Instrument :
BNA_G
ClientSampleId :
D9N42

Tgt Ion:252 Resp: 231548
Ion Ratio Lower Upper
252 100
253 23.9 16.7 25.1
125 8.3 6.2 9.2

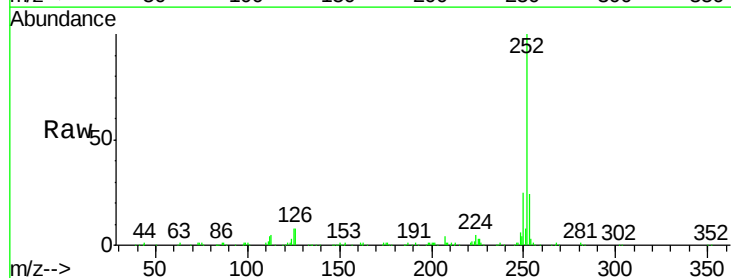


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

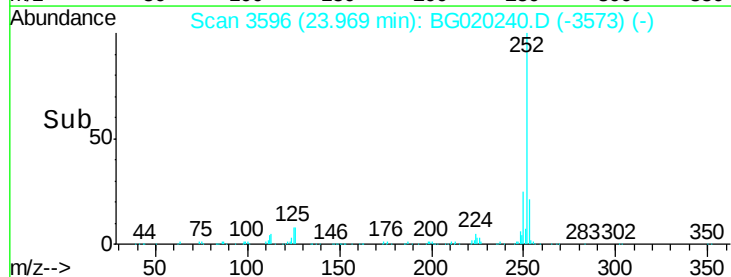
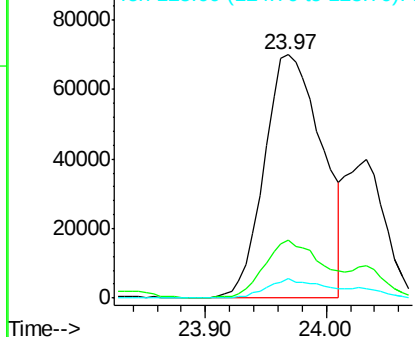


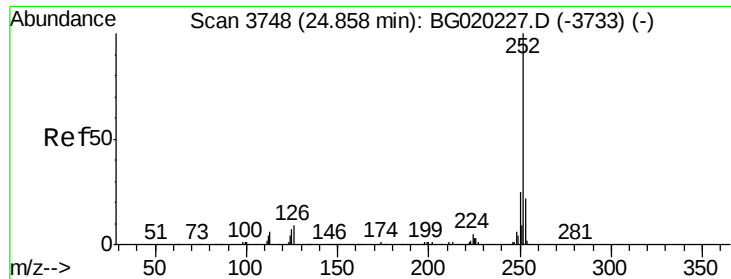
#89
Benzo(k)fluoranthene
Concen: 19.26 ng/ul
RT: 23.97 min Scan# 3596
Delta R.T. -0.07 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Tgt Ion:252 Resp: 231548
Ion Ratio Lower Upper
252 100
253 23.9 17.9 26.9
125 8.3 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: 11.29 ng/ul

RT: 24.86 min Scan# 3747

Delta R.T. -0.00 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

ClientSampleId :

D9N42

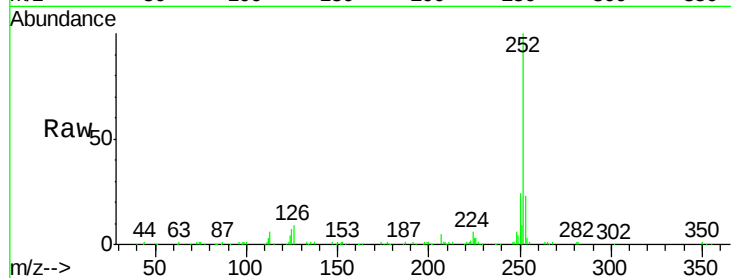
Tgt Ion:252 Resp: 134056

Ion Ratio Lower Upper

252 100

253 22.8 17.0 25.4

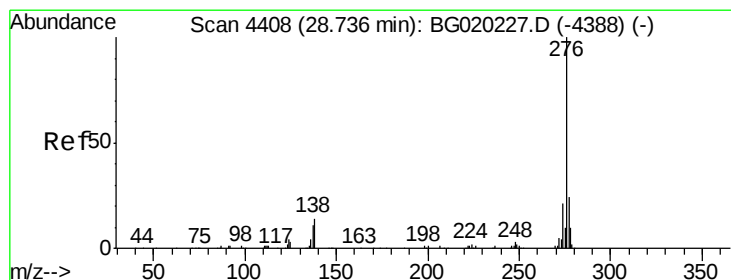
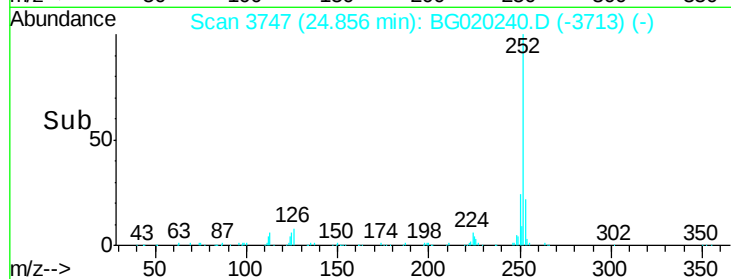
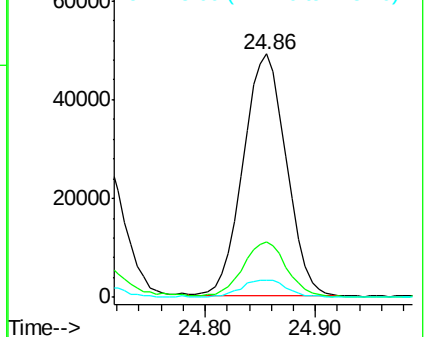
125 6.8 6.2 9.4



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: 2.72 ng/ul

RT: 28.72 min Scan# 4405

Delta R.T. -0.01 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

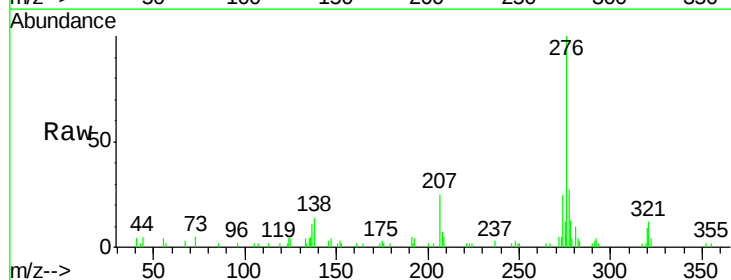
Tgt Ion:276 Resp: 38508

Ion Ratio Lower Upper

276 100

138 14.4 11.4 17.0

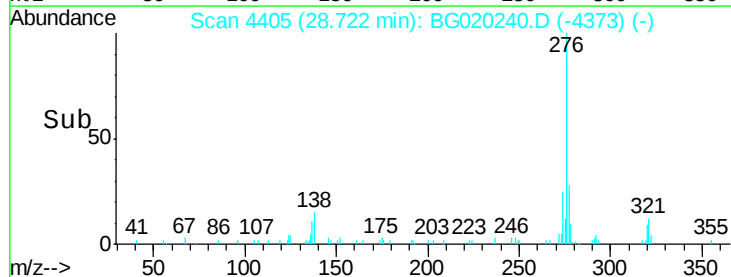
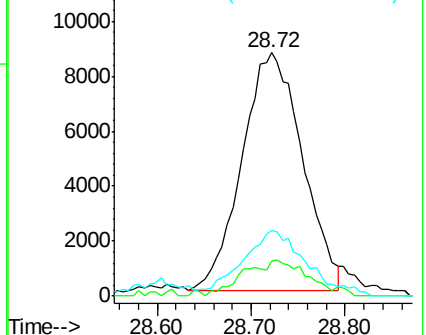
277 27.2 17.4 26.0#

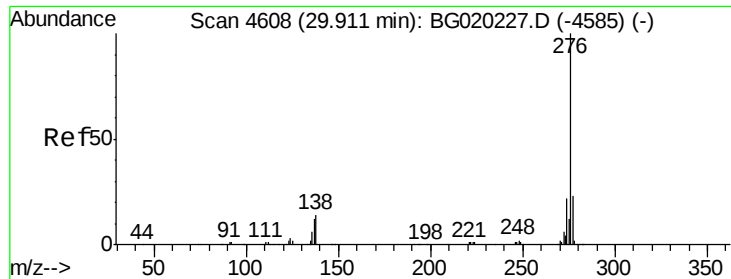


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#94

Benzo(g,h,i)perylene

Concen: 1.82 ng/ul

RT: 29.88 min Scan# 4602

Delta R.T. -0.03 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

ClientSampleId :

D9N42

Tgt Ion: 276 Resp: 21131

Ion Ratio Lower Upper

276 100

138 10.8 10.8 16.2#

277 23.5 19.9 29.9

