

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
 Data File : BG020242.D
 Acq On : 17 Dec 2015 4:45
 Operator : UM/SJ
 Sample : G4767-21
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N43

Quant Time: Dec 17 06:41:57 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 17 06:39:33 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	21339	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	101913	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.73	164	73463	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.47	188	179700	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	203479	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	194154	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	2036	5.27	ng/uL	0.00
5) Phenol-d5	7.24	99	56982	30.28	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	34329	30.58	ng/ul	0.00
9) 2-Chlorophenol-d4	7.63	132	44795	32.73	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	50415	31.33	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	24478	30.81	ng/ul	0.00
22) 2-Nitrophenol-d4	9.99	143	29225	33.06	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	53616	29.94	ng/ul	0.00
29) 4-Chloroaniline-d4	11.05	131	69665	34.63	ng/ul	0.00
44) Dimethylphthalate-d6	14.12	166	178109	29.97	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	187802	27.16	ng/ul	0.00
52) 4-Nitrophenol-d4	14.91	143	29424	27.61	ng/ul	0.00
58) Fluorene-d10	15.72	176	140362	26.04	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	22435	21.06	ng/ul	0.00
71) Anthracene-d10	17.57	188	217238	26.24	ng/ul	0.00
79) Pyrene-d10	19.85	212	239414	25.24	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	250642	25.88	ng/ul	0.00

Target Compounds

						Qvalue
6) Phenol	7.27	94	3624	1.80	ng/ul#	83
16) 4-Methylphenol	8.87	108	2766	1.63	ng/ul	92
17) Hexachloroethane	9.28	117	1815	3.01	ng/ul#	1
24) 2,4-Dimethylphenol	10.06	107	2368	1.10	ng/ul	95
28) Naphthalene	10.98	128	1314960	247.08	ng/ul	95
30) 4-Chloroaniline	10.98	127	190193	92.63	ng/ul#	8
34) 2-Methylnaphthalene	12.56	142	373114	91.78	ng/ul	99
35) 1-Methylnaphthalene	12.78	142	177373	45.38	ng/ul	94
41) 1,1'-Biphenyl	13.56	154	143359	25.87	ng/ul	95
45) Dimethylphthalate	14.17	163	82734	13.63	ng/ul	99
48) Acenaphthylene	14.45	152	49397	6.73	ng/ul#	95
50) Acenaphthene	14.79	153	622635	125.99	ng/ul	99
53) 4-Nitrophenol	14.79	109	1319	1.29	ng/ul#	1
54) Dibenzofuran	15.12	168	642046	87.34	ng/ul	96
59) Fluorene	15.78	166	586149	99.29	ng/ul	98
61) 4-Nitroaniline	15.78	138	7721	5.86	ng/ul#	10
70) Phenanthrene	17.60	178	210954	21.46	ng/ul	99
72) Anthracene	17.60	178	210954	21.16	ng/ul	99
75) Carbazole	17.87	167	199429	23.81	ng/ul	99
77) Fluoranthene	19.52	202	1369754	119.24	ng/ul	99
80) Pyrene	19.88	202	956049	77.63	ng/ul	99
83) Benzo(a)anthracene	21.72	228	229574	19.34	ng/ul	99
85) Chrysene	21.79	228	189822	16.98	ng/ul	97

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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

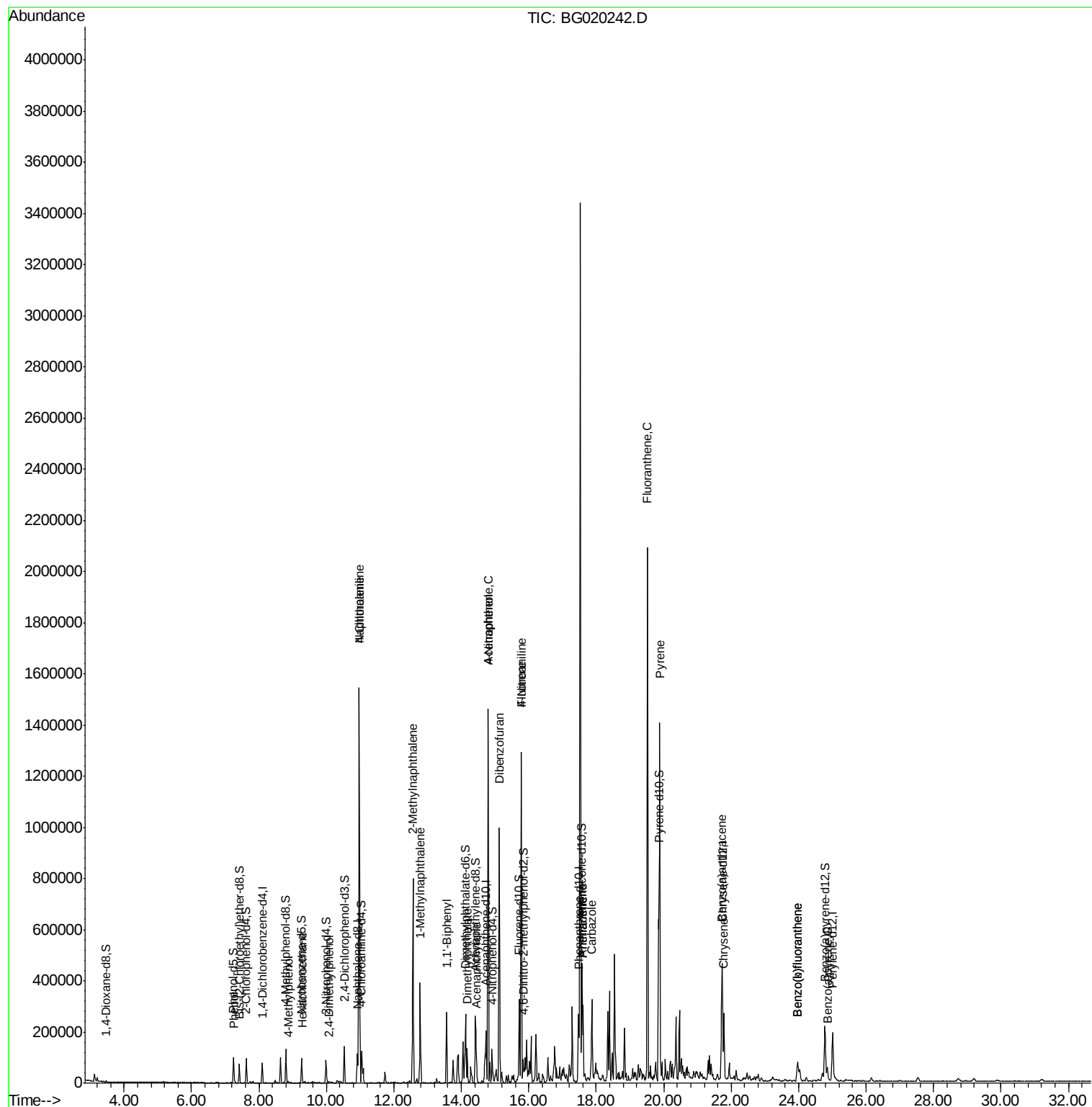
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(b)fluoranthene	23.97	252	104762	8.96	ng/ul	97
89) Benzo(k)fluoranthene	23.97	252	104762	9.34	ng/ul	99
91) Benzo(a)pyrene	24.85	252	61172	5.52	ng/ul	97

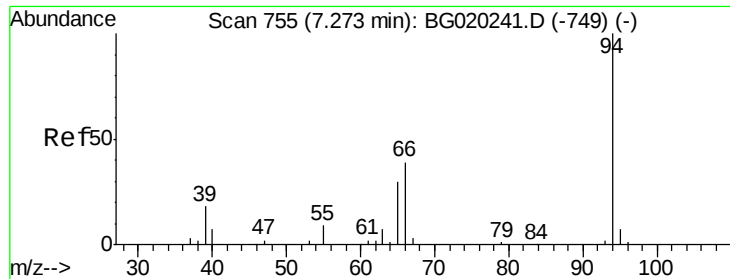
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#6

Phenol

Concen: 1.80 ng/ul

RT: 7.27 min Scan# 754

Delta R.T. -0.00 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

Instrument :

BNA_G

ClientSampleID :

D9N43

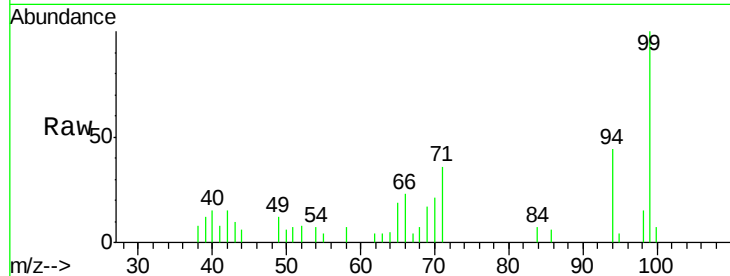
Tgt Ion: 94 Resp: 3624

Ion Ratio Lower Upper

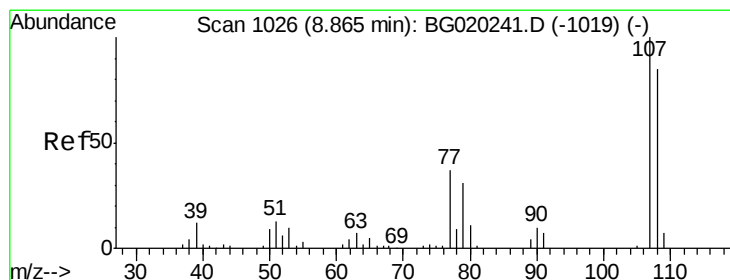
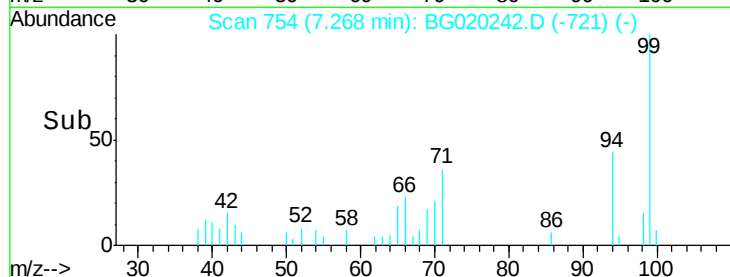
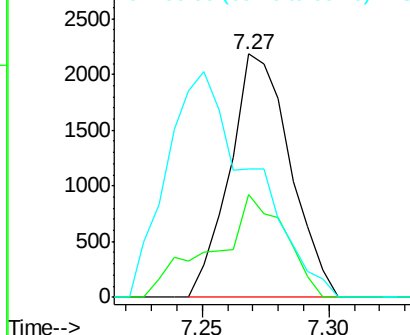
94 100

65 42.0 26.3 39.5#

66 52.5 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: 1.63 ng/ul

RT: 8.87 min Scan# 1026

Delta R.T. 0.00 min

Lab File: BG020242.D

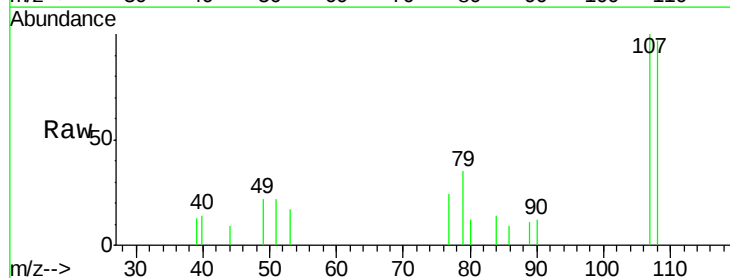
Acq: 17 Dec 2015 4:45

Tgt Ion: 108 Resp: 2766

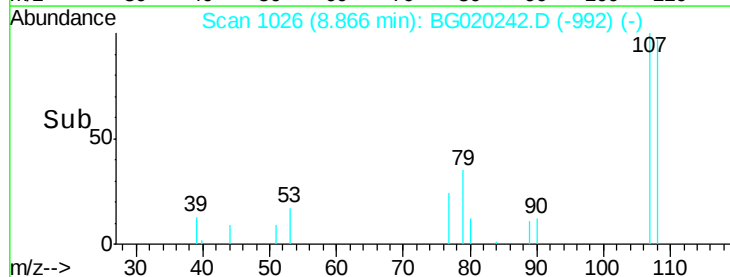
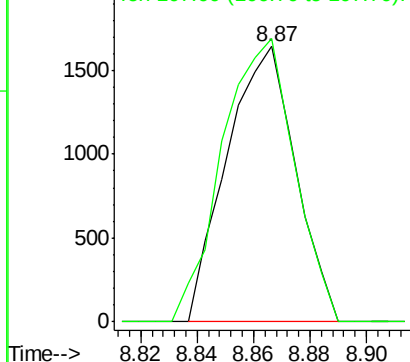
Ion Ratio Lower Upper

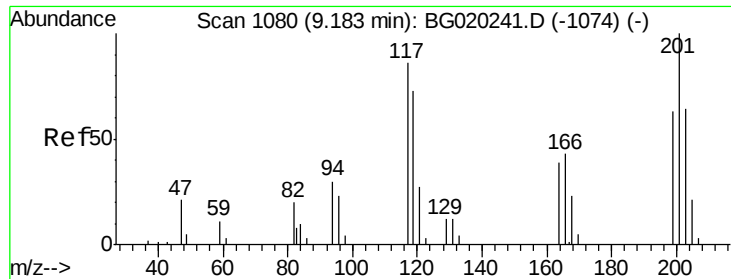
108 100

107 102.7 88.9 133.3



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

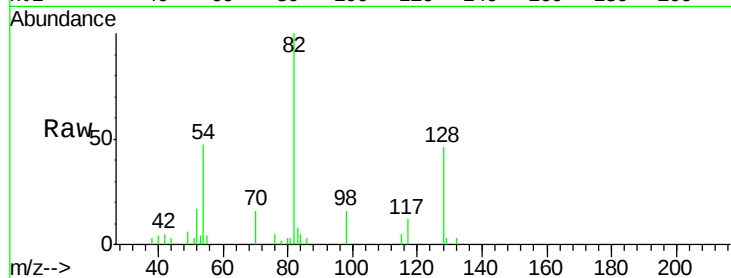




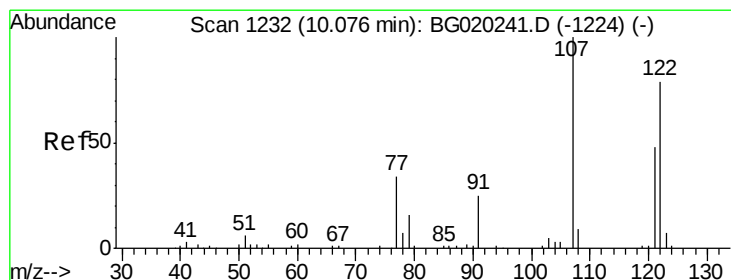
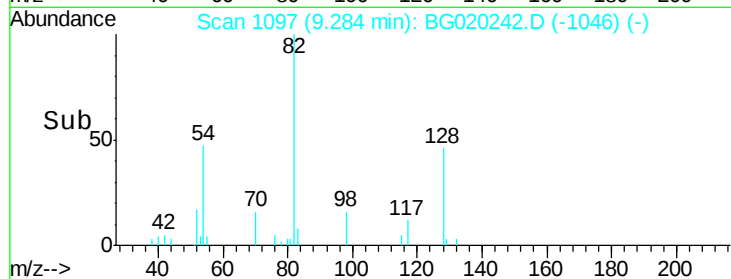
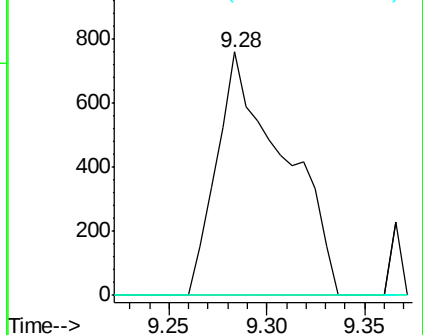
#17
Hexachloroethane
Concen: 3.01 ng/ul
RT: 9.28 min Scan# 1097
Delta R.T. 0.10 min
Lab File: BG020242.D
Acq: 17 Dec 2015 4:45

Instrument :
BNA_G
ClientSampled :
D9N43

Tgt Ion:117 Resp: 1815
Ion Ratio Lower Upper
117 100
201 0.0 102.7 154.1#
199 0.0 65.8 98.8#

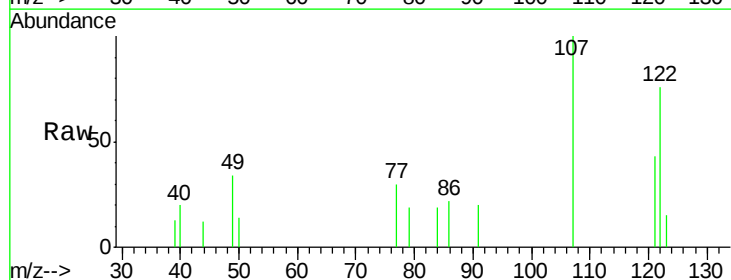


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

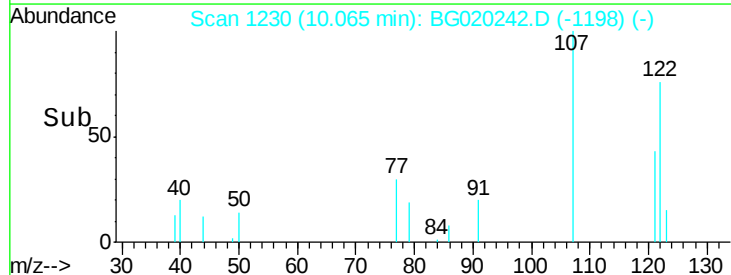
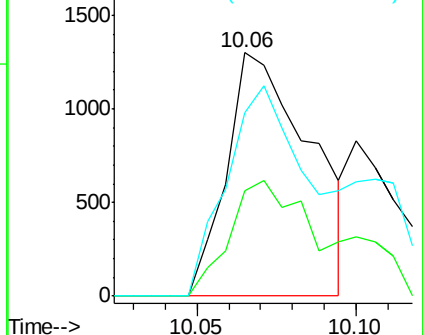


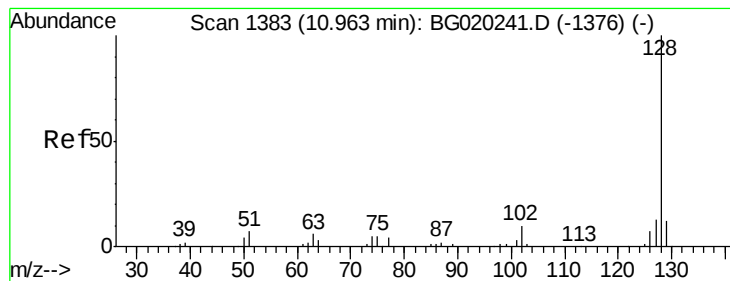
#24
2,4-Dimethylphenol
Concen: 1.10 ng/ul
RT: 10.06 min Scan# 1230
Delta R.T. -0.01 min
Lab File: BG020242.D
Acq: 17 Dec 2015 4:45

Tgt Ion:107 Resp: 2368
Ion Ratio Lower Upper
107 100
121 43.0 39.0 58.4
122 75.6 62.1 93.1



Abundance Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E
Ion 122.00 (121.70 to 122.70): E





#28

Naphthalene

Concen: 247.08 ng/ul

RT: 10.98 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

Instrument :

BNA_G

ClientSampleId :

D9N43

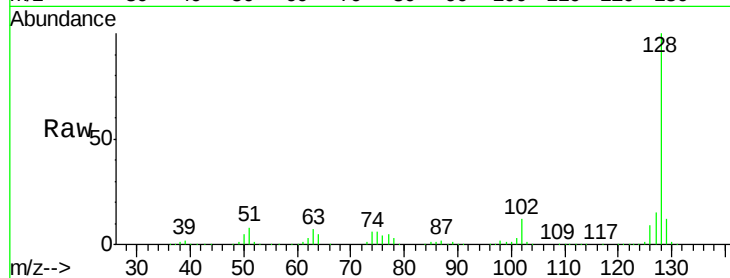
Tgt Ion:128 Resp: 1314960

Ion Ratio Lower Upper

128 100

129 12.5 8.6 12.8

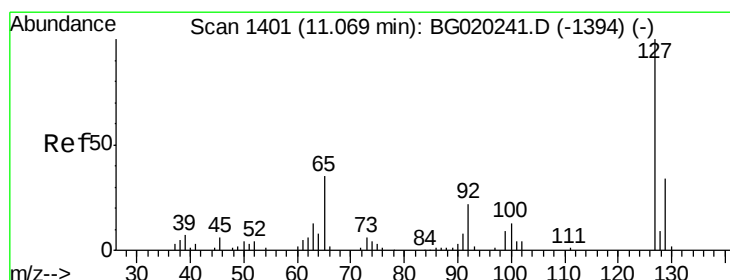
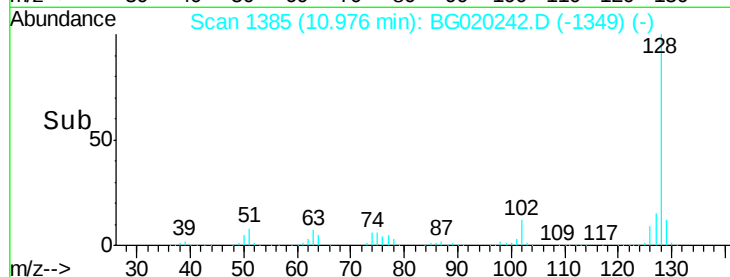
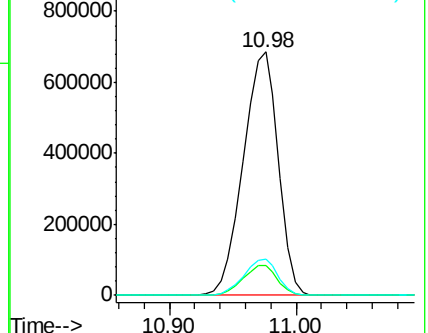
127 15.0 10.1 15.1



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: 92.63 ng/ul

RT: 10.98 min Scan# 1385

Delta R.T. -0.09 min

Lab File: BG020242.D

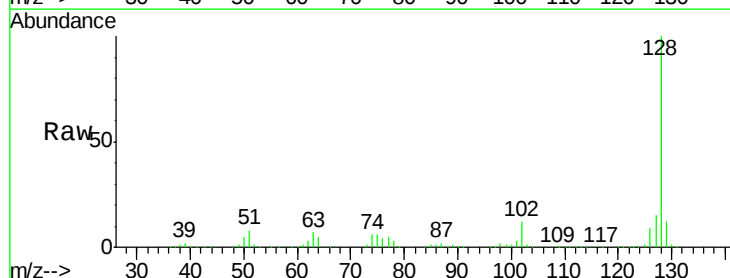
Acq: 17 Dec 2015 4:45

Tgt Ion:127 Resp: 190193

Ion Ratio Lower Upper

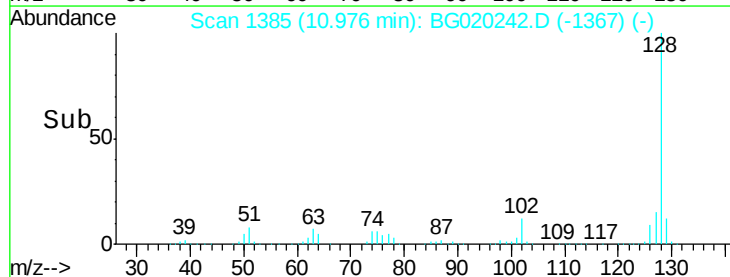
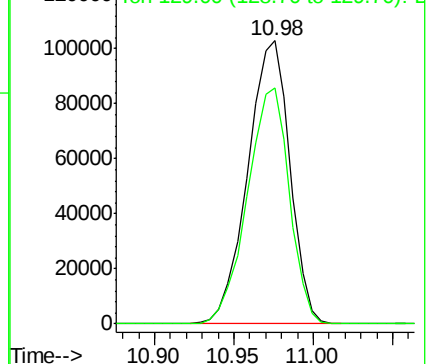
127 100

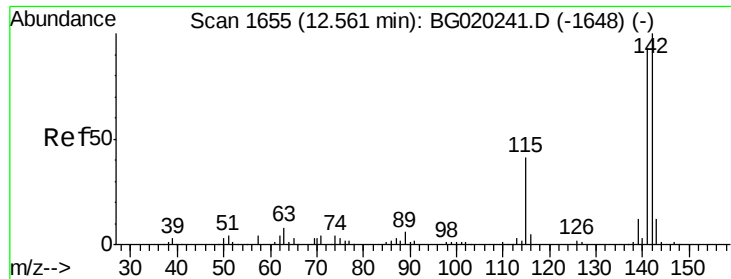
129 83.4 25.7 38.5#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

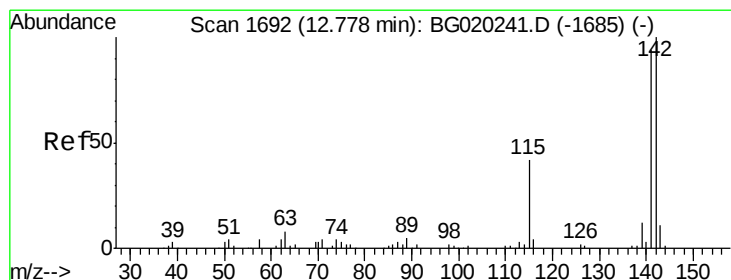
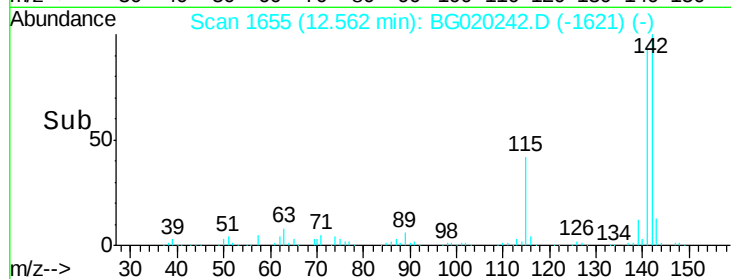
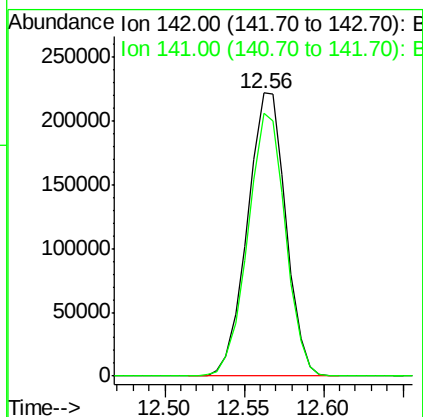
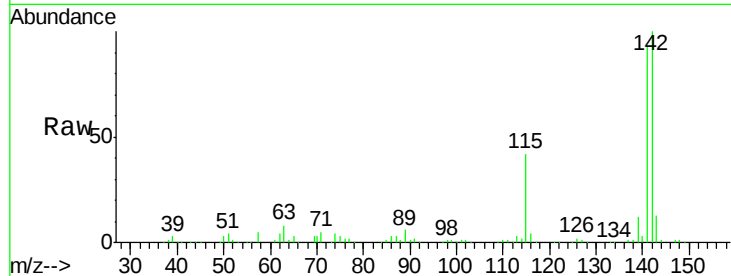




#34
 2-Methylnaphthalene
 Concen: 91.78 ng/ul
 RT: 12.56 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: BG020242.D
 Acq: 17 Dec 2015 4:45

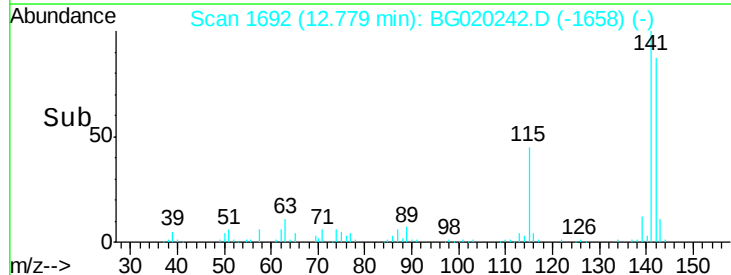
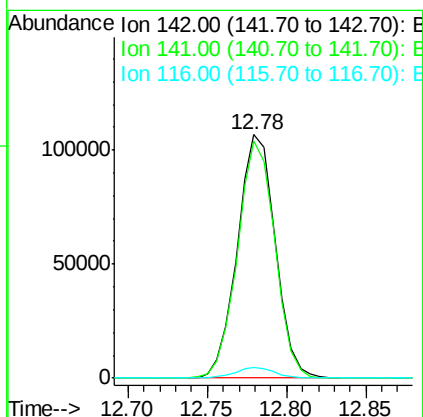
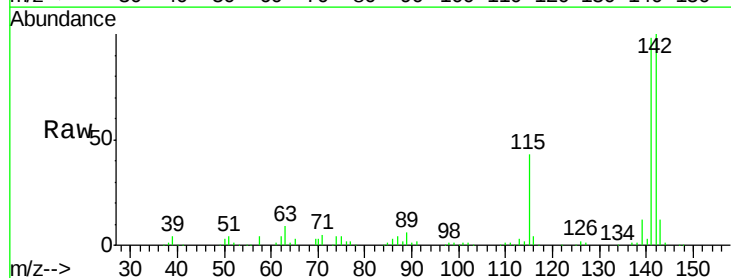
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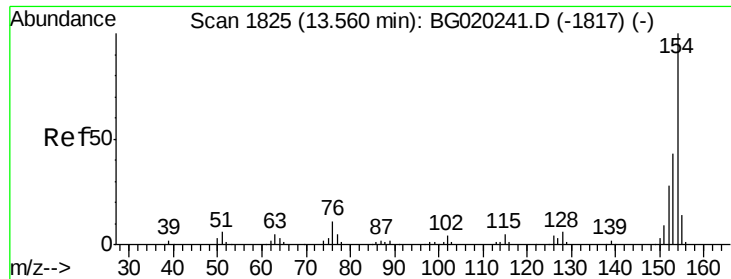
Tgt Ion:142 Resp: 373114
 Ion Ratio Lower Upper
 142 100
 141 92.9 74.9 112.3



#35
 1-Methylnaphthalene
 Concen: 45.38 ng/ul
 RT: 12.78 min Scan# 1692
 Delta R.T. 0.00 min
 Lab File: BG020242.D
 Acq: 17 Dec 2015 4:45

Tgt Ion:142 Resp: 177373
 Ion Ratio Lower Upper
 142 100
 141 97.6 73.0 109.6
 116 4.4 3.0 4.6

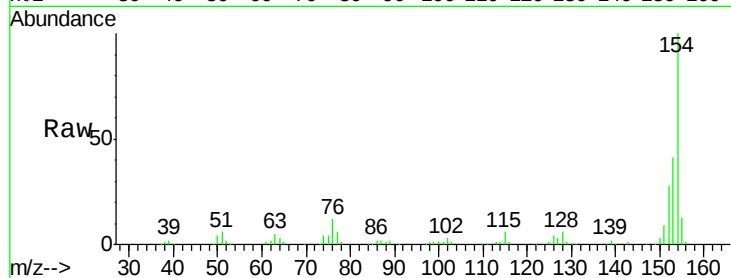




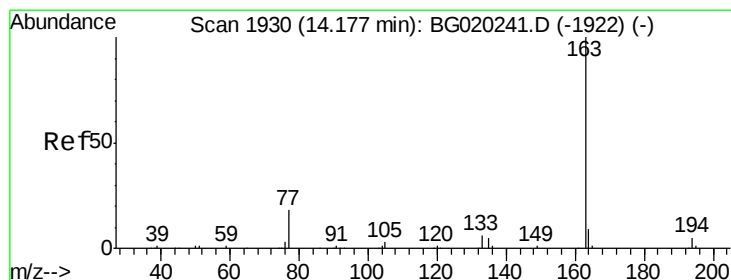
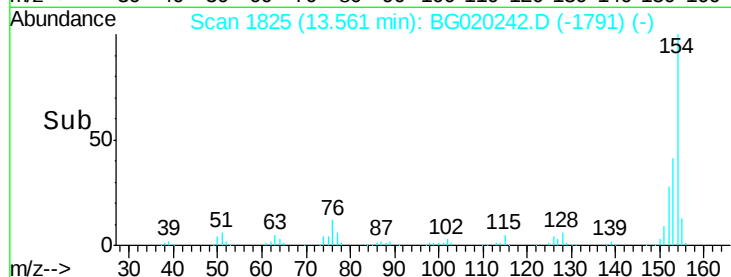
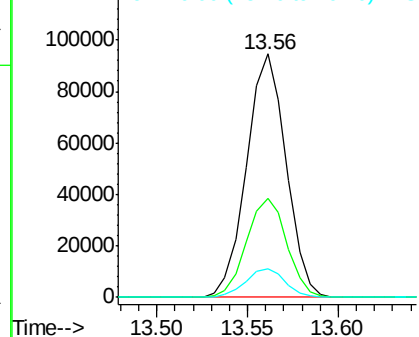
#41
1,1'-Biphenyl
Concen: 25.87 ng/ul
RT: 13.56 min Scan# 1825
Delta R.T. 0.00 min
Lab File: BG020242.D
Acq: 17 Dec 2015 4:45

Instrument :
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Tgt Ion	Ratio	Lower	Upper
154	100		
153	40.9	35.5	53.3
76	11.6	10.4	15.6

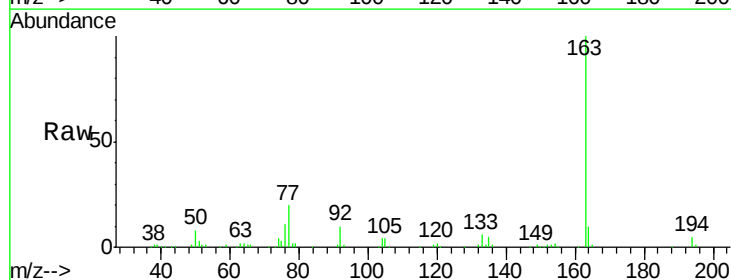


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BGC

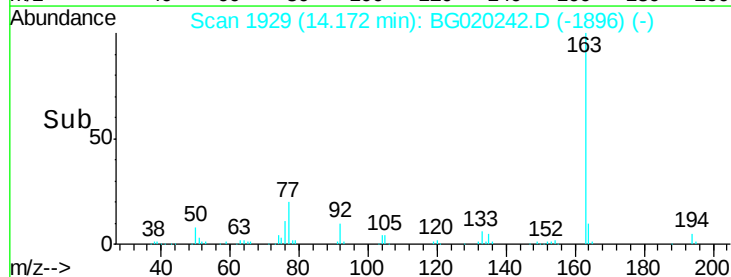
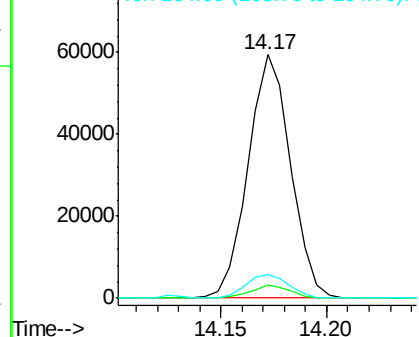


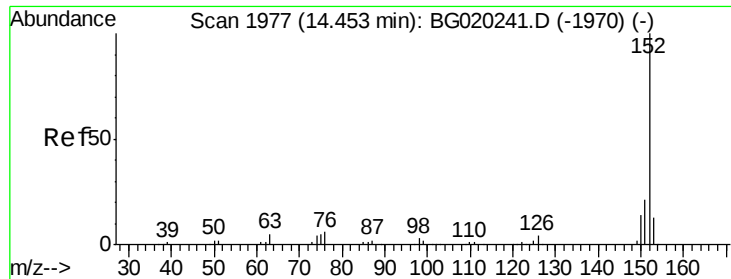
#45
Dimethylphthalate
Concen: 13.63 ng/ul
RT: 14.17 min Scan# 1929
Delta R.T. -0.00 min
Lab File: BG020242.D
Acq: 17 Dec 2015 4:45

Tgt Ion	Ratio	Lower	Upper
163	100		
194	5.2	3.5	5.3
164	9.8	7.7	11.5



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





#48

Acenaphthylene

Concen: 6.73 ng/ul

RT: 14.45 min Scan# 1976

Delta R.T. -0.00 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

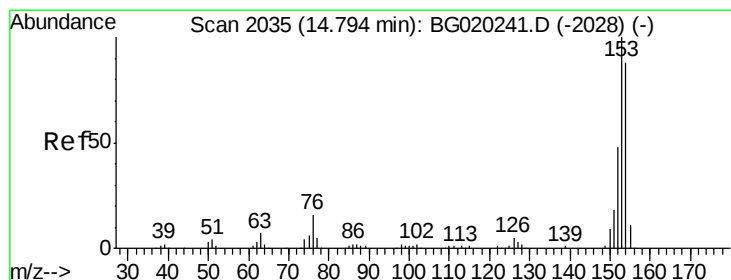
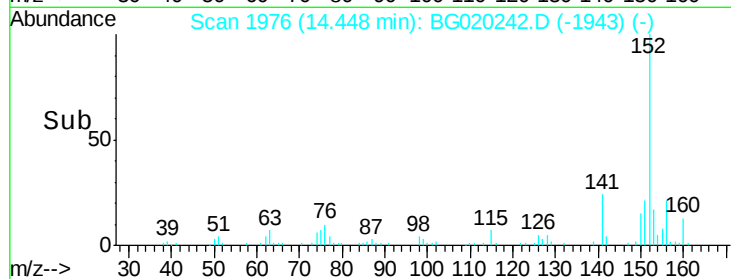
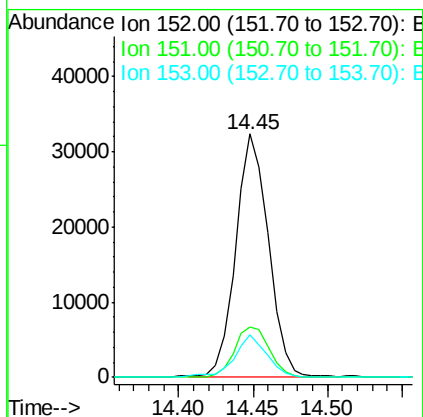
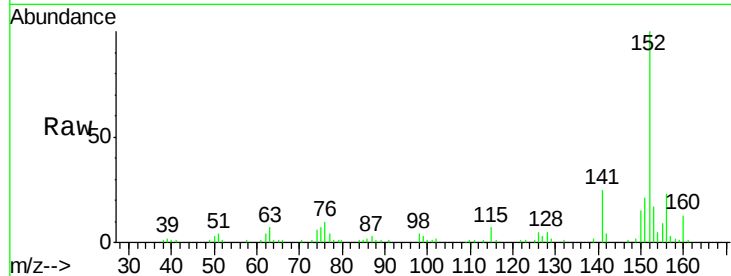
Instrument :

BNA_G

ClientSampleId :

D9N43

Tgt Ion:	152	Resp:	49397
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.4	24.6
153	17.5	10.4	15.6#



#50

Acenaphthene

Concen: 125.99 ng/ul

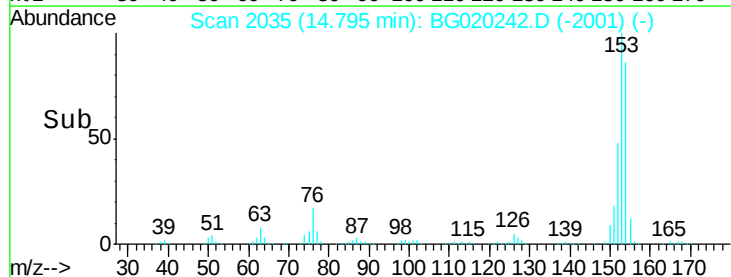
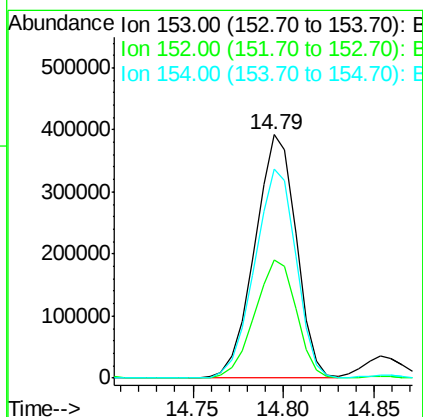
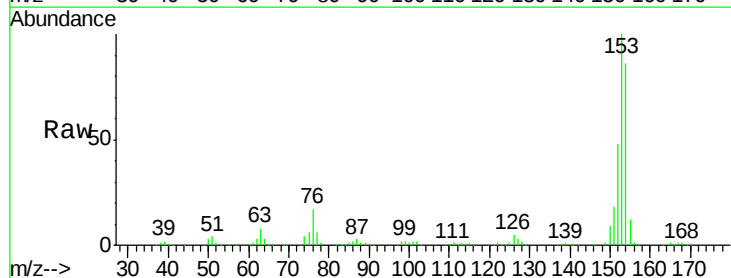
RT: 14.79 min Scan# 2035

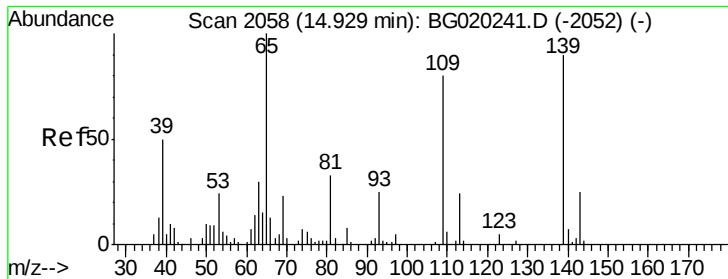
Delta R.T. 0.00 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

Tgt Ion:	153	Resp:	622635
Ion Ratio	Lower	Upper	
153	100		
152	48.4	37.6	56.4
154	85.9	67.9	101.9

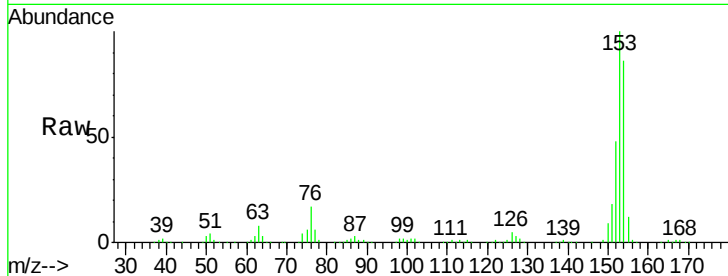




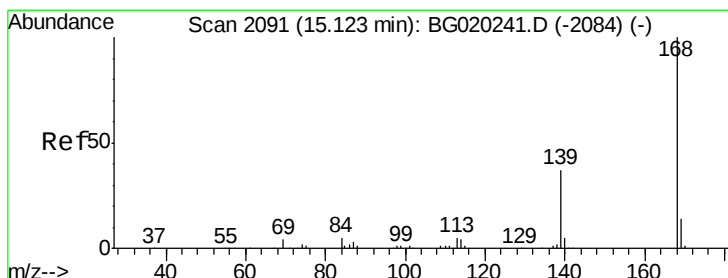
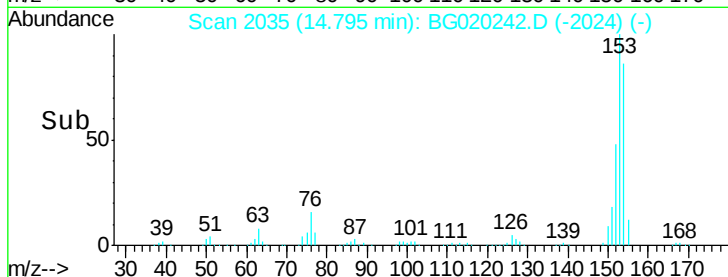
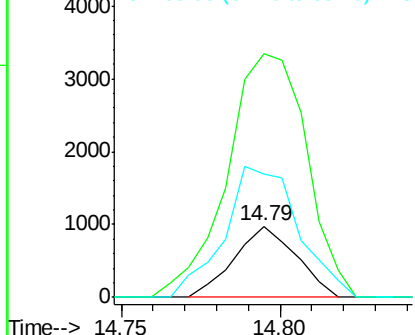
#53
4-Nitrophenol
Concen: 1.29 ng/ul
RT: 14.79 min Scan# 2035
Delta R.T. -0.13 min
Lab File: BG020242.D
Acq: 17 Dec 2015 4:45

Instrument :
BNA_G
ClientSampleId :
D9N43

Tgt Ion:109 Resp: 1319
Ion Ratio Lower Upper
109 100
139 343.8 80.5 120.7#
65 173.6 93.4 140.2#

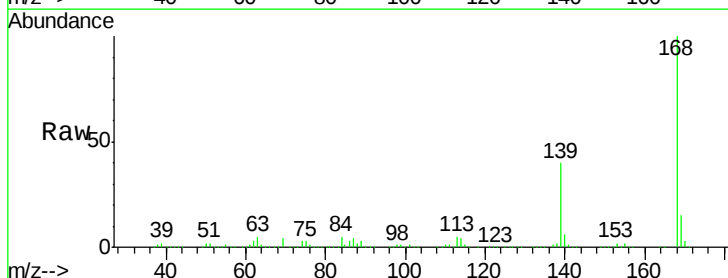


Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BGC

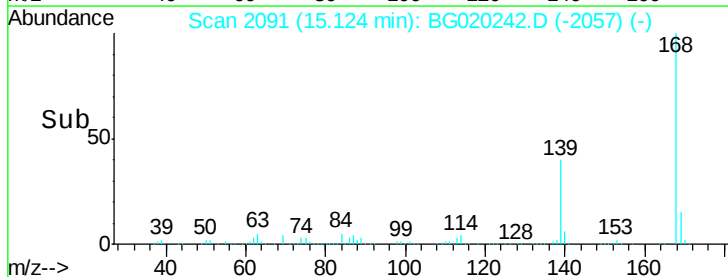
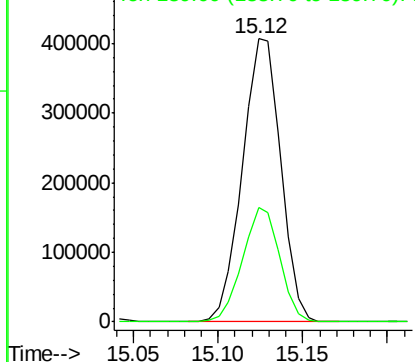


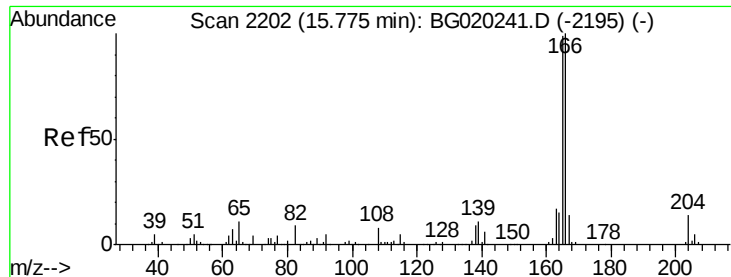
#54
Dibenzofuran
Concen: 87.34 ng/ul
RT: 15.12 min Scan# 2091
Delta R.T. 0.00 min
Lab File: BG020242.D
Acq: 17 Dec 2015 4:45

Tgt Ion:168 Resp: 642046
Ion Ratio Lower Upper
168 100
139 40.4 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 99.29 ng/ul

RT: 15.78 min Scan# 2202

Delta R.T. 0.00 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

Instrument :

BNA_G

ClientSampleId :

D9N43

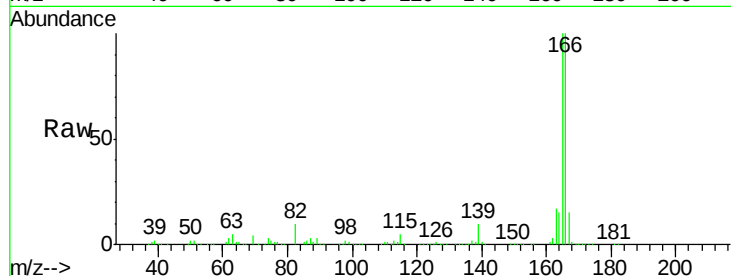
Tgt Ion:166 Resp: 586149

Ion Ratio Lower Upper

166 100

165 99.5 81.4 122.0

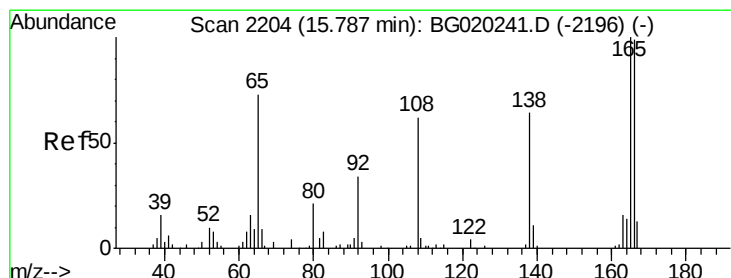
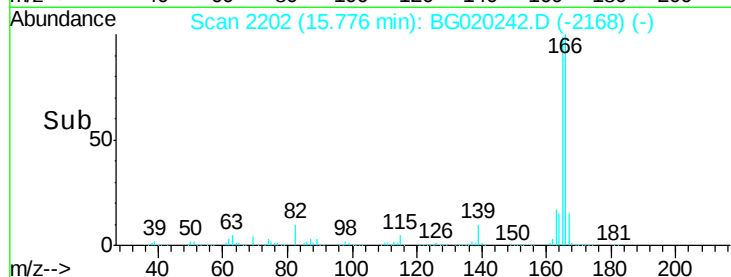
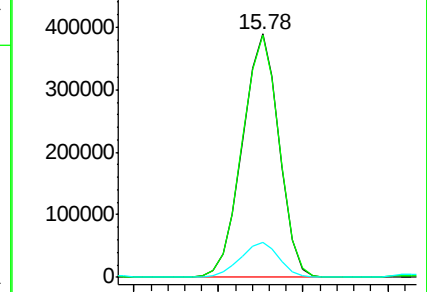
167 14.6 11.2 16.8



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: 5.86 ng/ul

RT: 15.78 min Scan# 2202

Delta R.T. -0.01 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

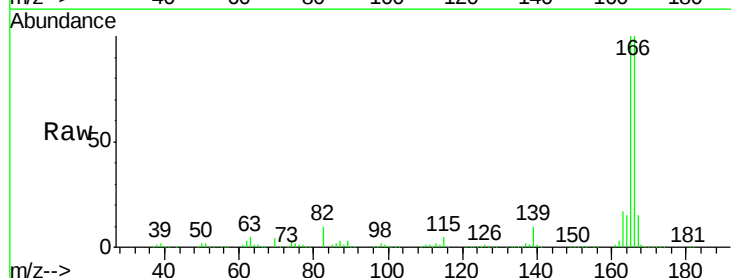
Tgt Ion:138 Resp: 7721

Ion Ratio Lower Upper

138 100

92 0.0 45.2 67.8#

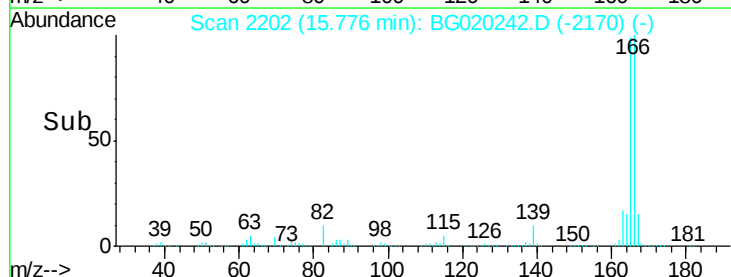
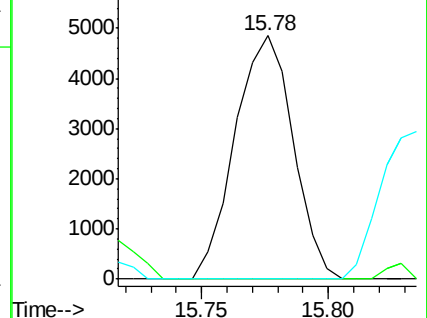
108 0.0 75.4 113.0#

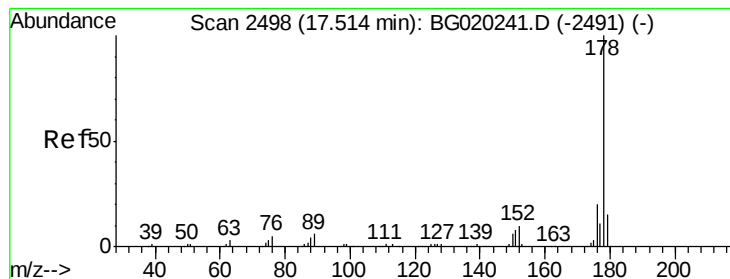


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG0

Ion 108.00 (107.70 to 108.70): E





#70

Phenanthrene

Concen: 21.46 ng/ul

RT: 17.60 min Scan# 2513

Delta R.T. 0.09 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

Instrument :

BNA_G

ClientSampleId :

D9N43

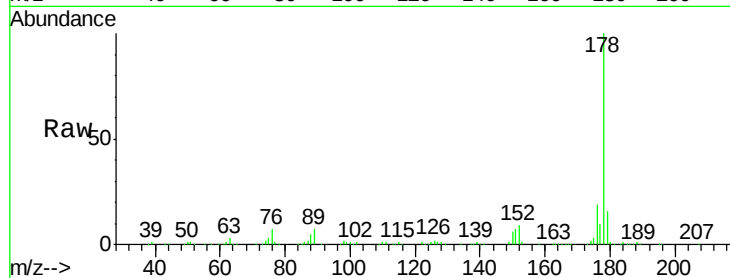
Tgt Ion:178 Resp: 210954

Ion Ratio Lower Upper

178 100

179 16.1 12.9 19.3

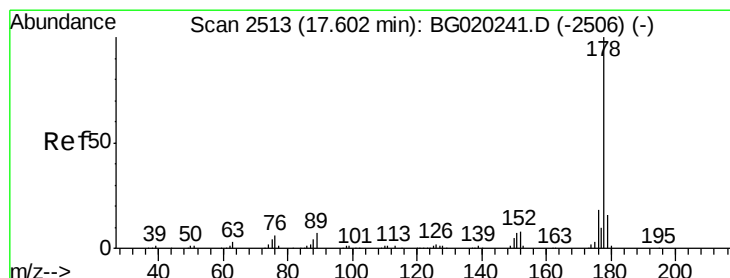
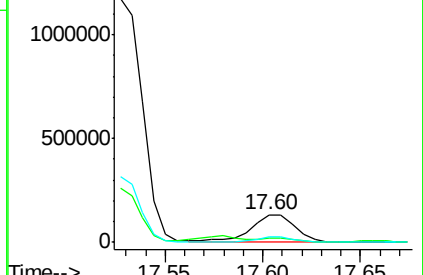
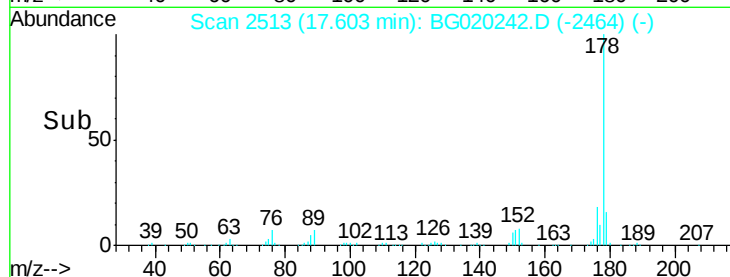
176 18.5 15.3 22.9



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: 21.16 ng/ul

RT: 17.60 min Scan# 2513

Delta R.T. 0.00 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

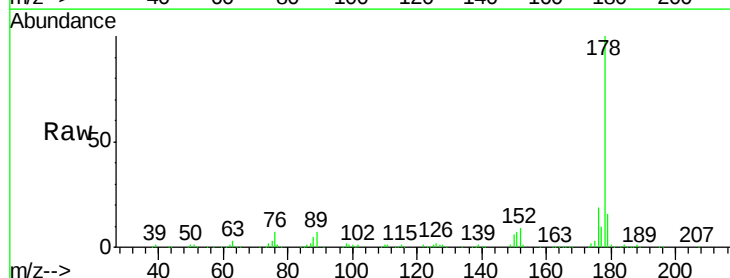
Tgt Ion:178 Resp: 210954

Ion Ratio Lower Upper

178 100

179 16.1 12.3 18.5

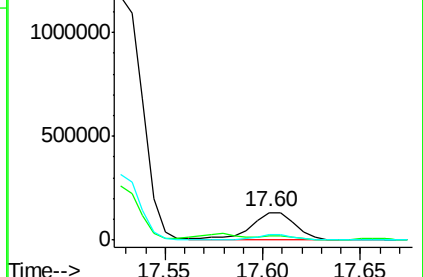
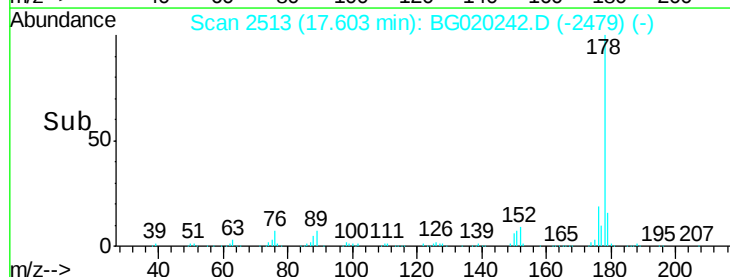
176 18.5 14.3 21.5

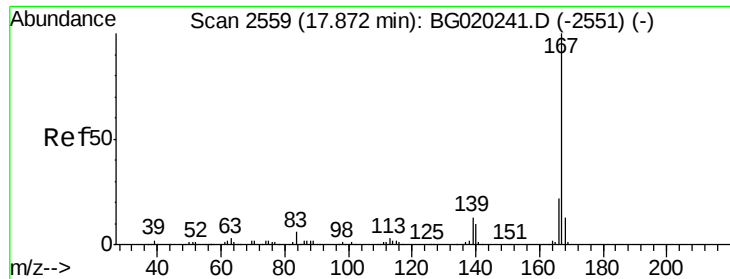


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 23.81 ng/ul

RT: 17.87 min Scan# 2558

Delta R.T. -0.00 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

Instrument :

BNA_G

ClientSampleId :

D9N43

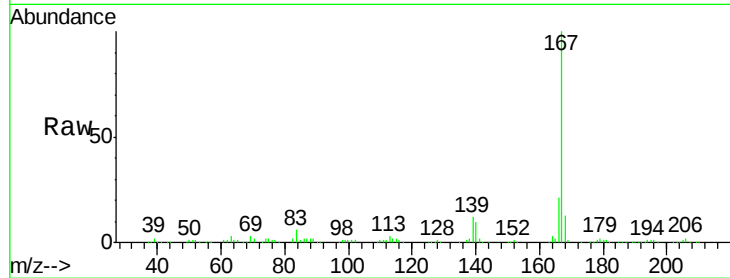
Tgt Ion:167 Resp: 199429

Ion Ratio Lower Upper

167 100

166 21.0 17.0 25.6

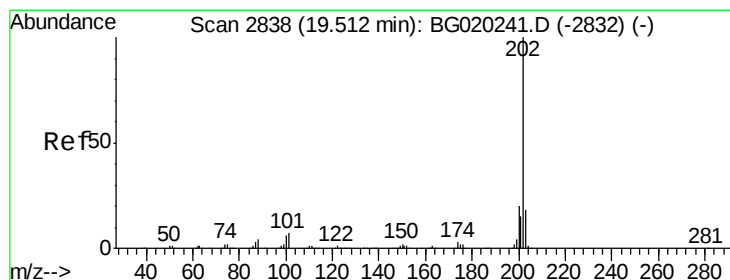
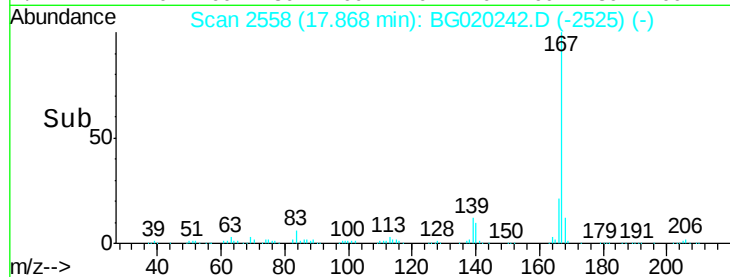
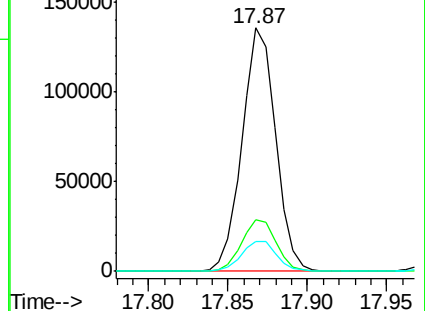
139 12.3 10.1 15.1



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: 119.24 ng/ul

RT: 19.52 min Scan# 2840

Delta R.T. 0.01 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

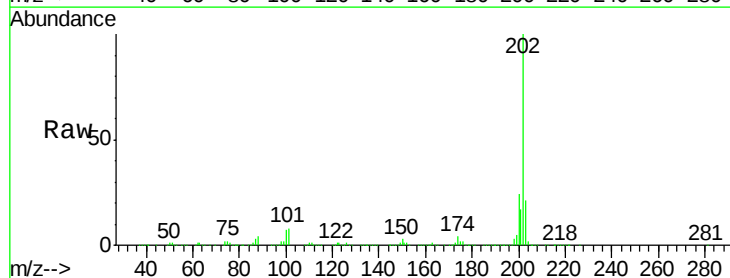
Tgt Ion:202 Resp: 1369754

Ion Ratio Lower Upper

202 100

101 8.1 6.2 9.4

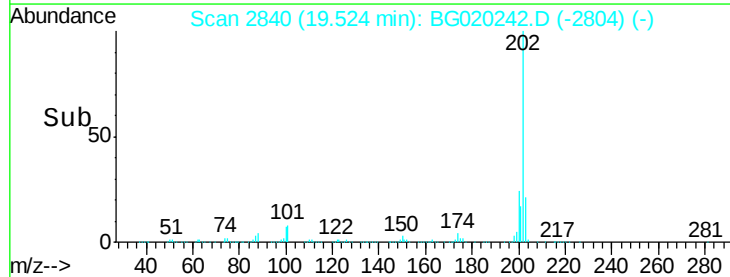
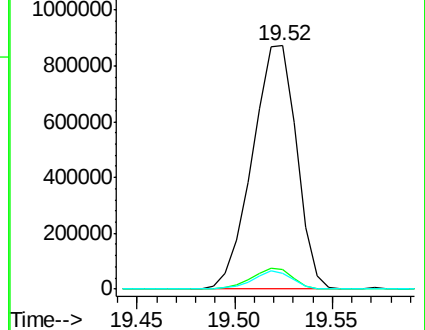
100 6.6 5.1 7.7

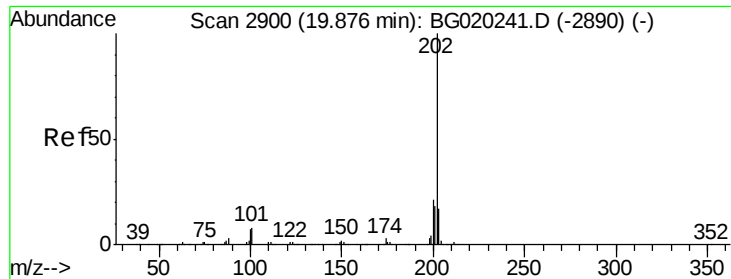


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

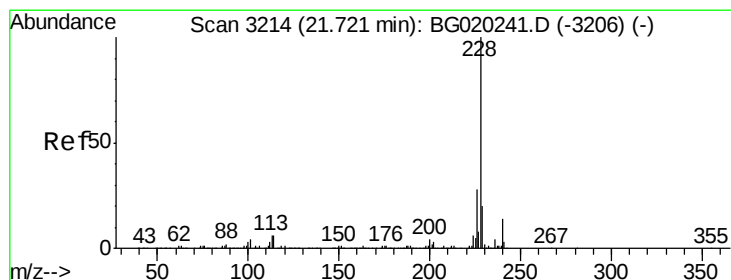
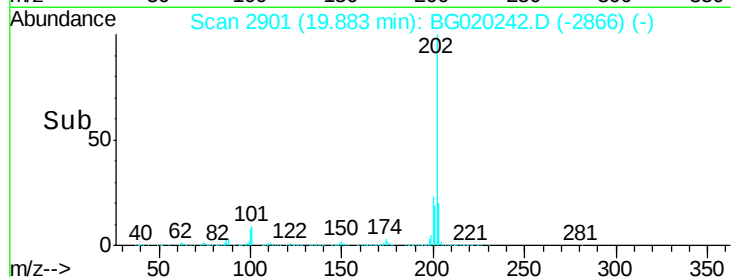
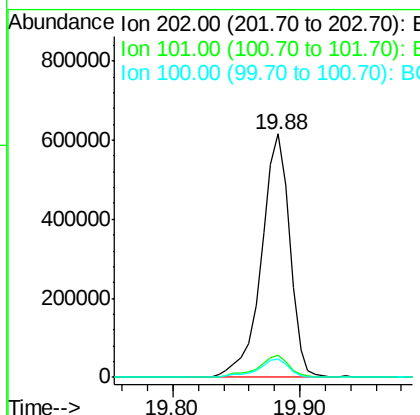
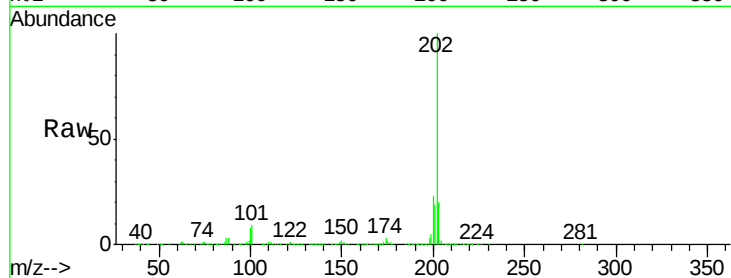




#80
Pyrene
Concen: 77.63 ng/ul
RT: 19.88 min Scan# 2901
Delta R.T. 0.01 min
Lab File: BG020242.D
Acq: 17 Dec 2015 4:45

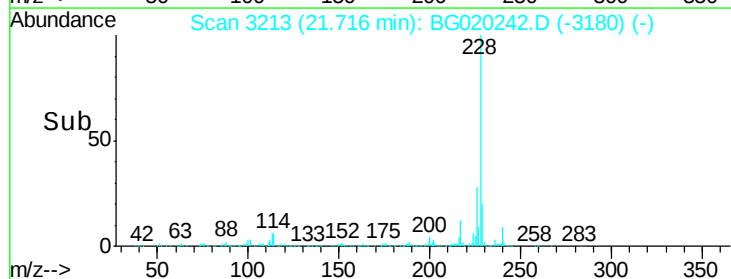
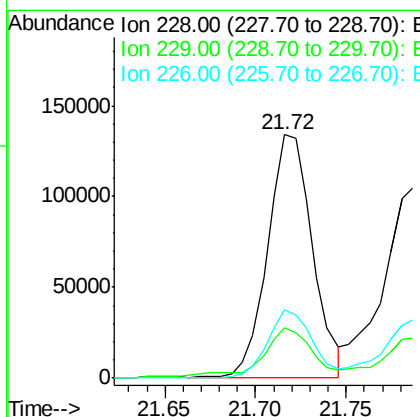
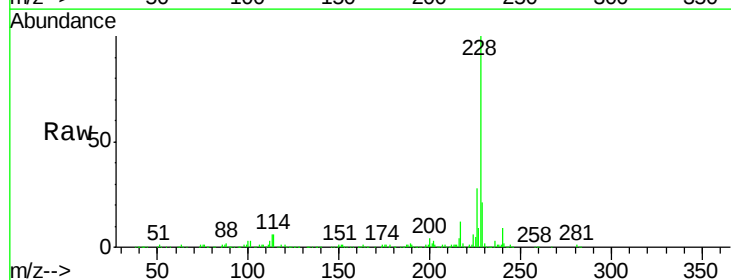
Instrument :
BNA_G
ClientSampleId :
D9N43

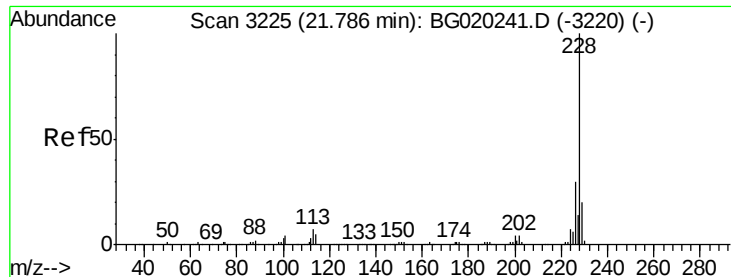
Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.9	7.0	10.4
100	7.7	6.4	9.6



#83
Benzo(a)anthracene
Concen: 19.34 ng/ul
RT: 21.72 min Scan# 3213
Delta R.T. -0.00 min
Lab File: BG020242.D
Acq: 17 Dec 2015 4:45

Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.6	15.8	23.8
226	27.9	21.8	32.6





#85

Chrysene

Concen: 16.98 ng/ul

RT: 21.79 min Scan# 3225

Delta R.T. 0.00 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

Instrument :

BNA_G

ClientSampleId :

D9N43

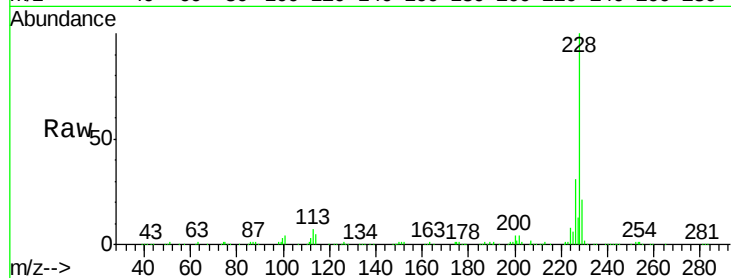
Tgt Ion:228 Resp: 189822

Ion Ratio Lower Upper

228 100

226 30.9 23.9 35.9

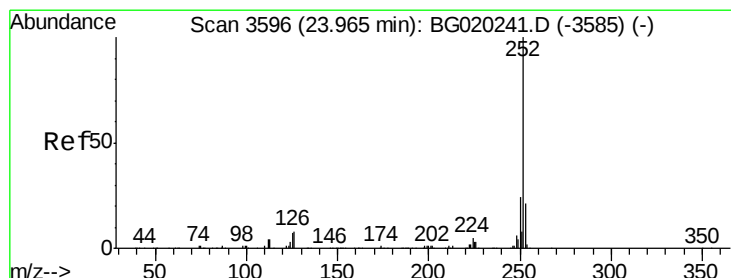
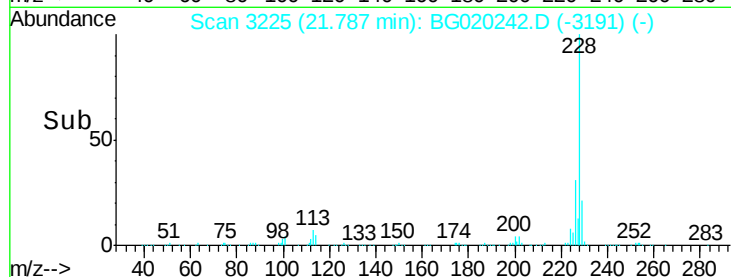
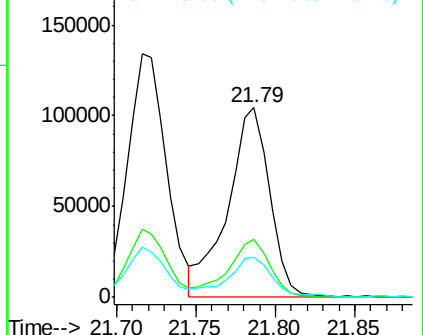
229 21.2 15.6 23.4



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: 8.96 ng/ul

RT: 23.97 min Scan# 3596

Delta R.T. 0.00 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

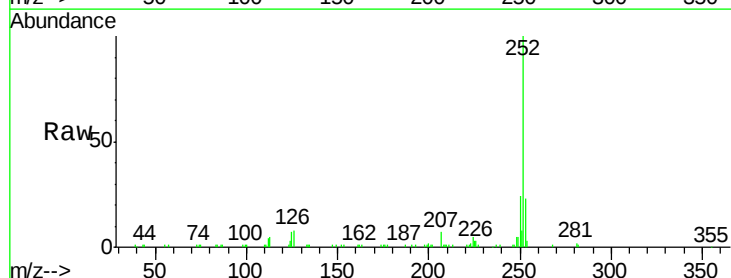
Tgt Ion:252 Resp: 104762

Ion Ratio Lower Upper

252 100

253 22.8 16.7 25.1

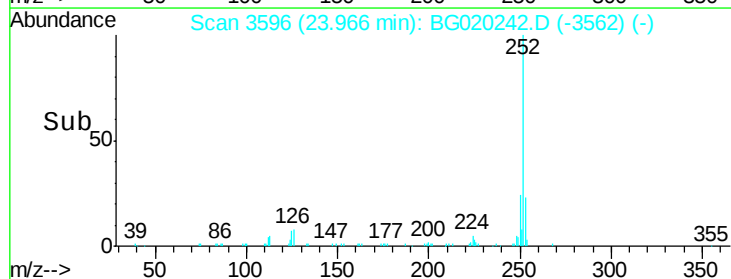
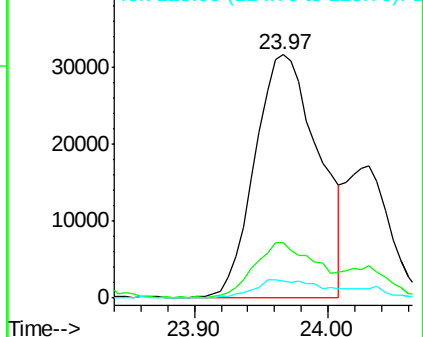
125 7.3 6.2 9.2

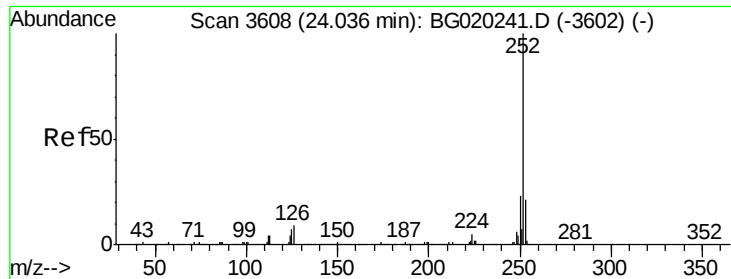


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 9.34 ng/ul

RT: 23.97 min Scan# 3596

Delta R.T. -0.07 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

Instrument :

BNA_G

ClientSampleId :

D9N43

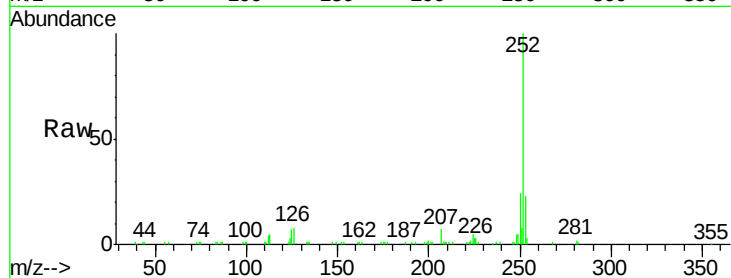
Tgt Ion:252 Resp: 104762

Ion Ratio Lower Upper

252 100

253 22.8 17.9 26.9

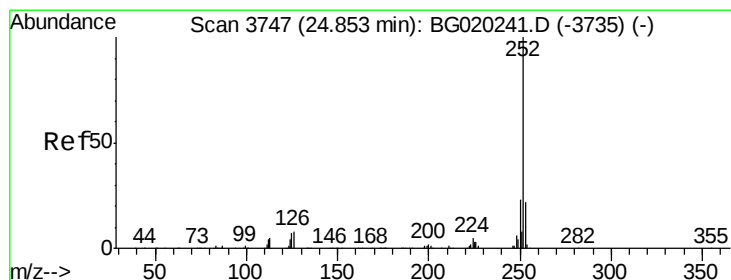
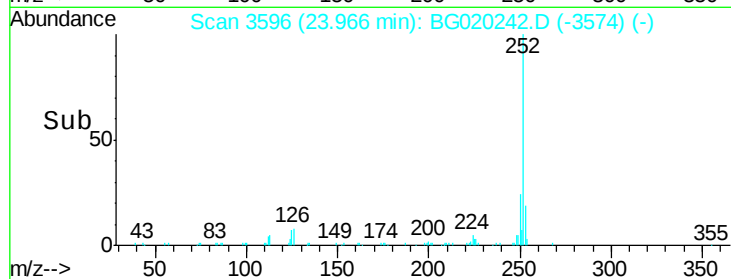
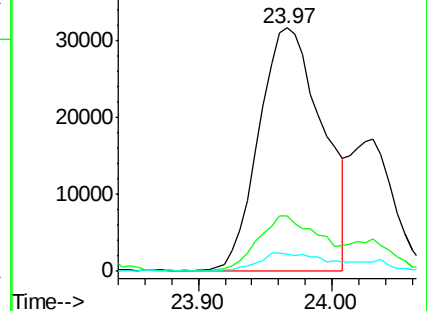
125 7.3 5.8 8.6



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: 5.52 ng/ul

RT: 24.85 min Scan# 3747

Delta R.T. 0.00 min

Lab File: BG020242.D

Acq: 17 Dec 2015 4:45

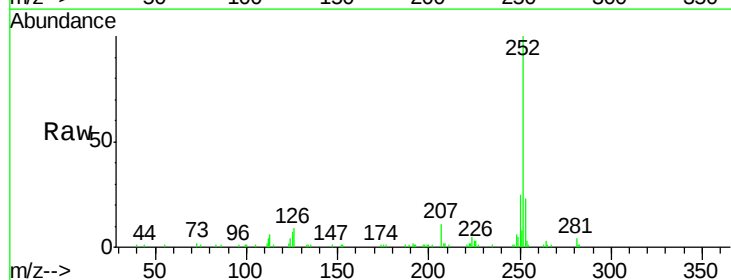
Tgt Ion:252 Resp: 61172

Ion Ratio Lower Upper

252 100

253 23.2 17.0 25.4

125 7.4 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

