

Data Path : Z:\HPCHEM1\BNA G\DATA\BG060916\
 Data File : BG022270.D
 Acq On : 9 Jun 2016 15:53
 Operator : UM/SJ
 Sample : H3402-14 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SS-47

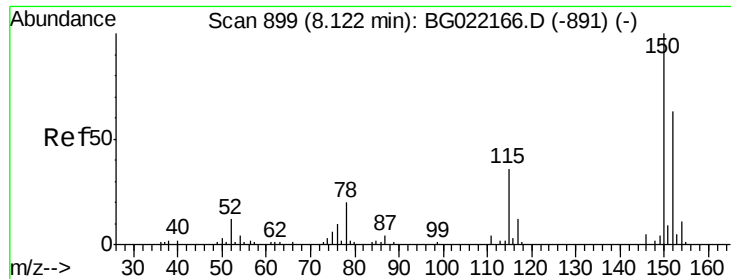
Quant Time: Jun 09 18:01:16 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG060616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 06 16:12:45 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.12	152	47140	20.00	ng	0.00
21) Naphthalene-d8	10.94	136	236126	20.00	ng	0.00
38) Acenaphthene-d10	14.75	164	124769	20.00	ng	0.00
63) Phenanthrene-d10	17.50	188	240648	20.00	ng	0.00
75) Chrysene-d12	21.77	240	205261	20.00	ng	0.00
86) Perylene-d12	25.08	264	184977	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.67	112	182644	74.91	ng	0.00
7) Phenol-d6	7.28	99	276070	72.02	ng	0.00
23) Nitrobenzene-d5	9.29	82	152080	44.90	ng	0.00
41) 2,4,6-Tribromophenol	16.24	330	85497	60.64	ng	0.00
44) 2-Fluorobiphenyl	13.37	172	411153	50.22	ng	0.00
78) Terphenyl-d14	20.09	244	397381	45.96	ng	0.00

Target Compounds				Qvalue		
49) Dimethylphthalate	14.19	163	52111	5.04	ng	98
51) Acenaphthene	14.81	154	26735	3.53	ng	91
57) Fluorene	15.79	166	32022	3.15	ng	96
70) Phenanthrene	17.54	178	426350	32.62	ng	99
71) Anthracene	17.63	178	104168	8.04	ng	97
72) Carbazole	17.90	167	39689	3.23	ng	97
74) Fluoranthene	19.54	202	607065	40.40	ng	97
77) Pyrene	19.90	202	551641	43.23	ng	99
80) Benzo(a)anthracene	21.75	228	286920	24.93	ng	97
82) Chrysene	21.81	228	240875	21.51	ng	96
85) Indeno(1,2,3-cd)pyrene	28.85	276	117630m	9.36	ng	
87) Benzo(b)fluoranthene	24.02	252	311638m	28.89	ng	
88) Benzo(k)fluoranthene	24.08	252	110690m	10.42	ng	
89) Benzo(a)pyrene	24.92	252	218580	21.19	ng	96
90) Dibenzo(a,h)anthracene	28.91	278	21612m	2.22	ng	
91) Benzo(g,h,i)perylene	30.04	276	98324m	9.73	ng	

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.12 min Scan# 899

Delta R.T. -0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

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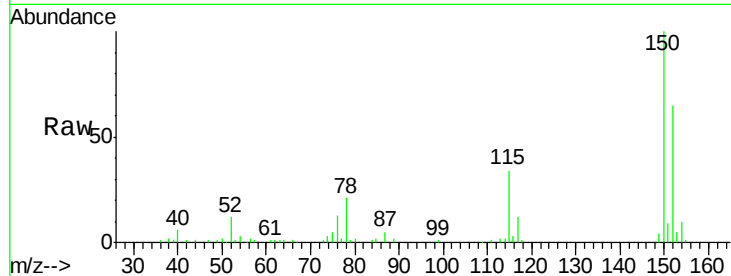
Tot Ion:152 Resp: 47140

Ion Ratio Lower Upper

152 100

150 154.7 130.1 195.1

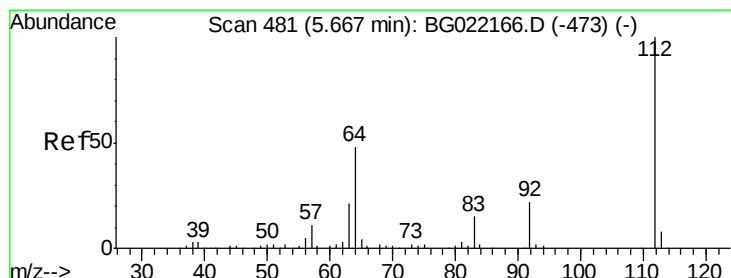
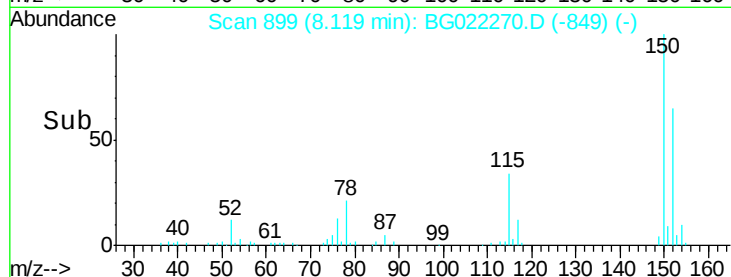
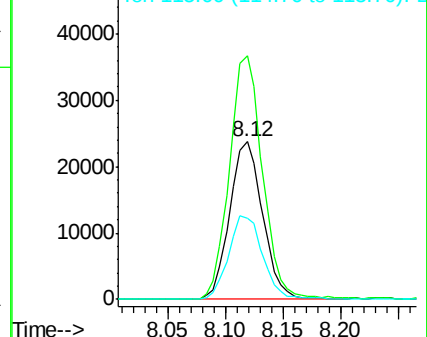
115 51.9 62.2 93.2#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 74.91 ng

RT: 5.67 min Scan# 482

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

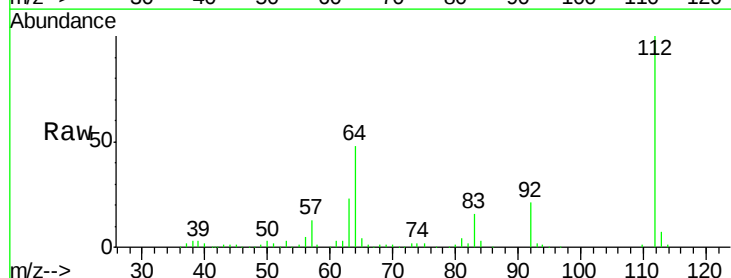
Tgt Ion:112 Resp: 182644

Ion Ratio Lower Upper

112 100

64 48.4 51.1 76.7#

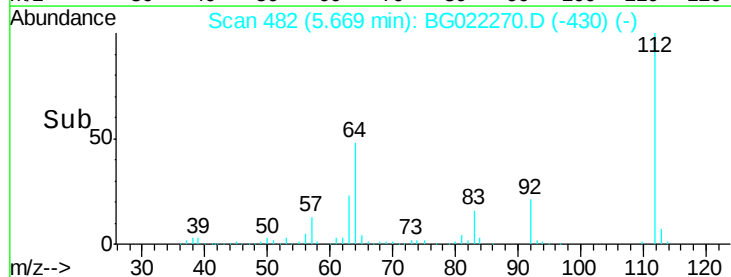
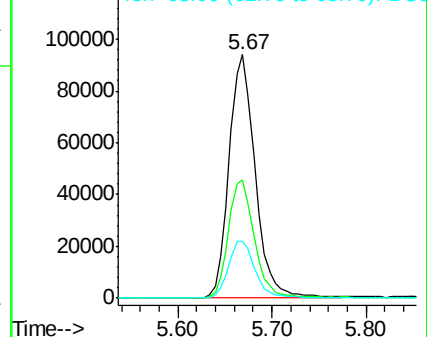
63 23.5 24.6 37.0#

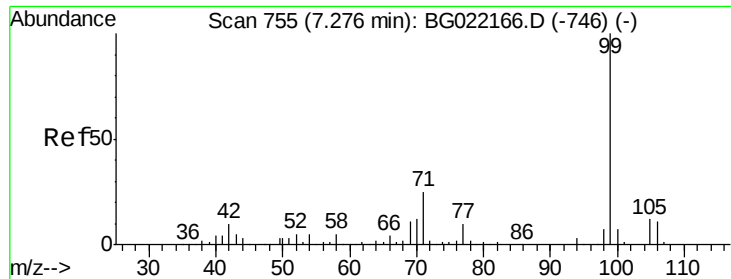


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 72.02 ng

RT: 7.28 min Scan# 756

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Instrument :

BNA_G

ClientSampleId :

SS-47

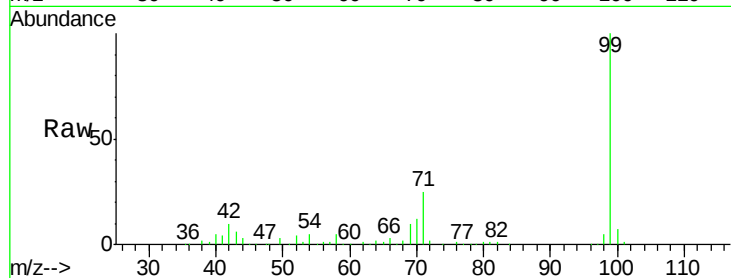
Tot Ion: 99 Resp: 276070

Ion Ratio Lower Upper

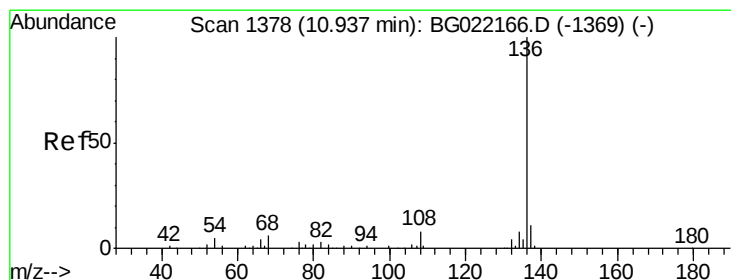
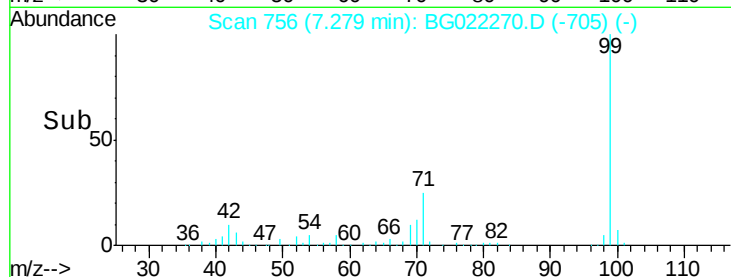
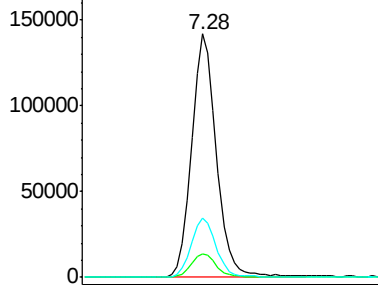
99 100

42 9.5 16.4 24.6#

71 24.6 25.0 37.4#



Abundance Ion 99.00 (98.70 to 99.70): BGC
Ion 42.00 (41.70 to 42.70): BGC
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.94 min Scan# 1379

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Tgt Ion: 136 Resp: 236126

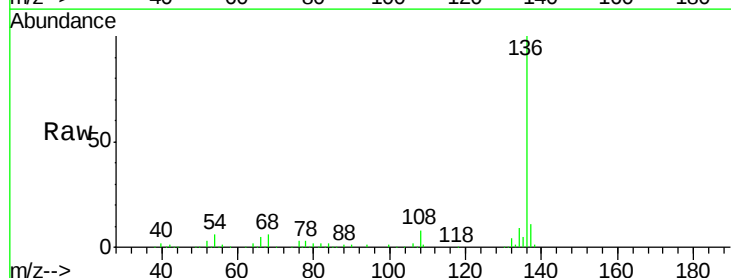
Ion Ratio Lower Upper

136 100

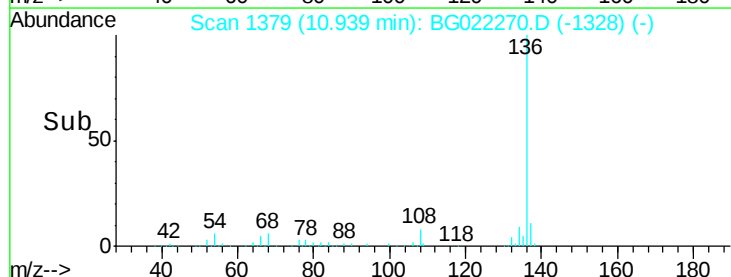
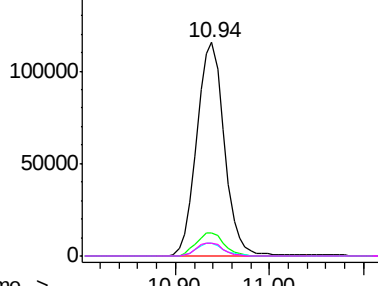
137 10.9 9.0 13.4

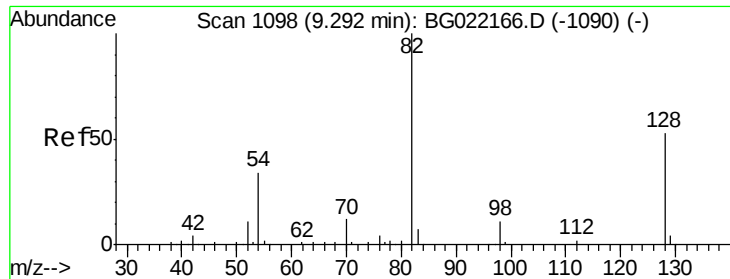
54 6.1 9.6 14.4#

68 5.8 6.4 9.6#



Abundance Ion 136.00 (135.70 to 136.70): BGC
Ion 137.00 (136.70 to 137.70): BGC
Ion 54.00 (53.70 to 54.70): BGC
Ion 68.00 (67.70 to 68.70): BGC

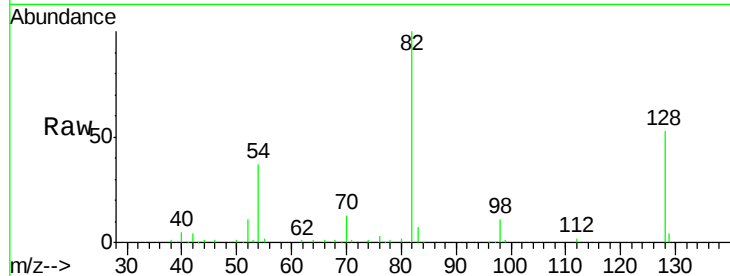




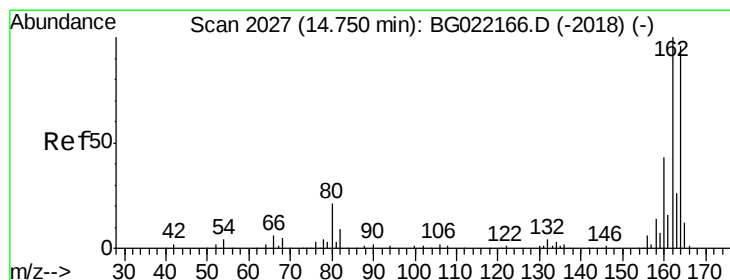
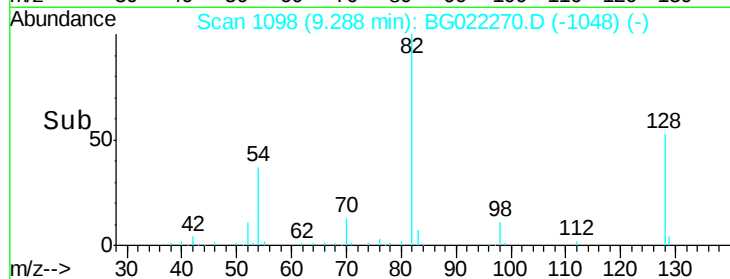
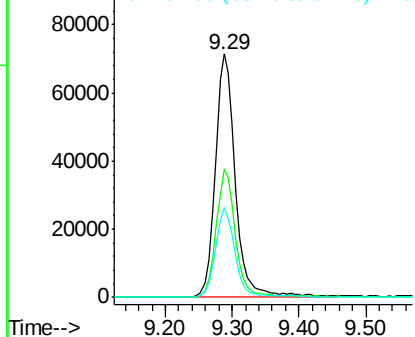
#23
Nitrobenzene-d5
Concen: 44.90 ng
RT: 9.29 min Scan# 1098
Delta R.T. -0.00 min
Lab File: BG022270.D
Acq: 9 Jun 2016 15:53

Instrument :
BNA_G
ClientSampleId :
SS-47

Tot Ion: 82 Resp: 152080
Ion Ratio Lower Upper
82 100
128 52.6 33.4 50.0#
54 36.8 46.1 69.1#

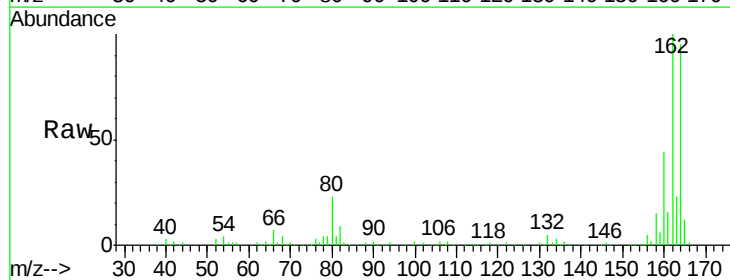


Abundance Ion 82.00 (81.70 to 82.70): BGC
Ion 128.00 (127.70 to 128.70): BGC
Ion 54.00 (53.70 to 54.70): BGC

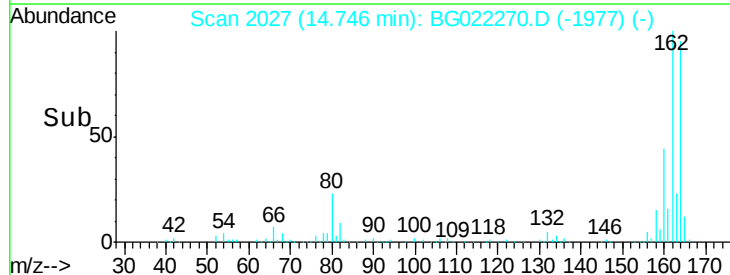
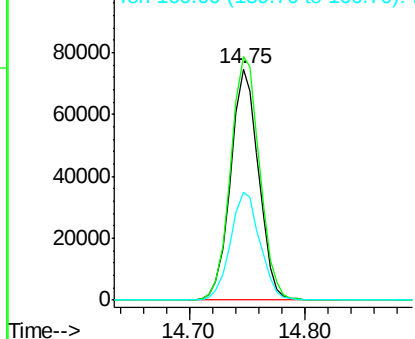


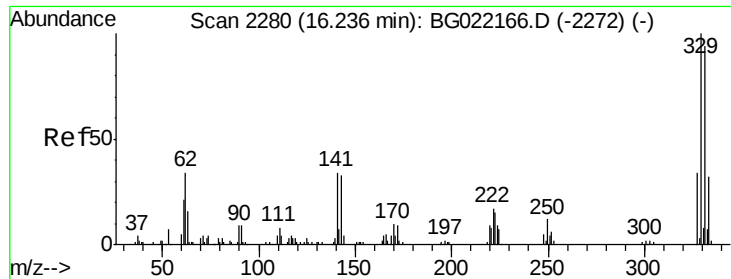
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.75 min Scan# 2027
Delta R.T. -0.00 min
Lab File: BG022270.D
Acq: 9 Jun 2016 15:53

Tgt Ion:164 Resp: 124769
Ion Ratio Lower Upper
164 100
162 105.4 78.0 117.0
160 46.8 32.9 49.3



Abundance Ion 164.00 (163.70 to 164.70): BGC
Ion 162.00 (161.70 to 162.70): BGC
Ion 160.00 (159.70 to 160.70): BGC

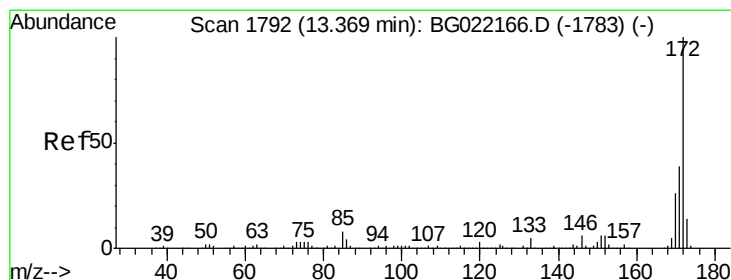
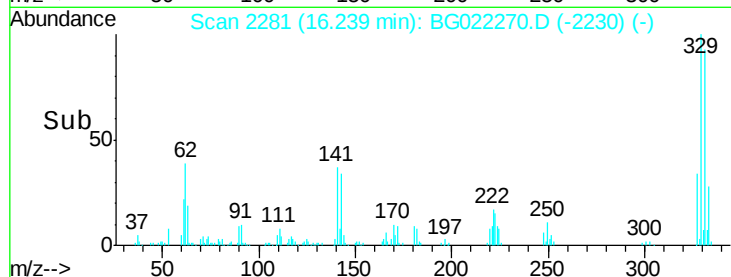
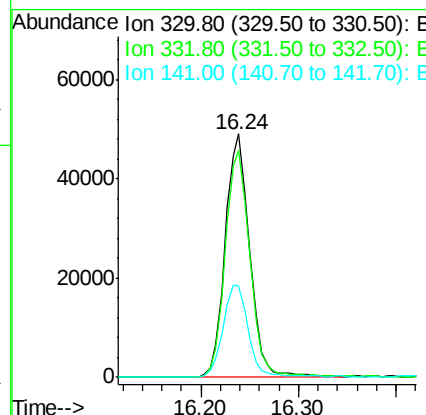
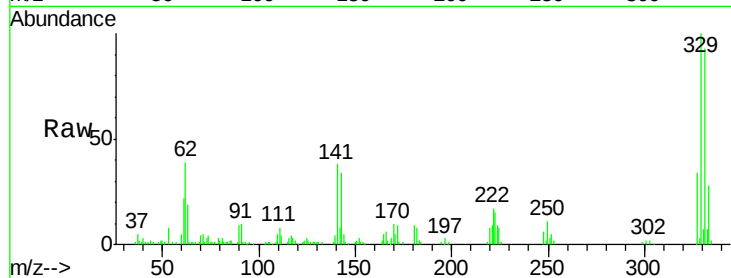




#41
 2,4,6-Tribromophenol
 Concen: 60.64 ng
 RT: 16.24 min Scan# 2281
 Delta R.T. 0.00 min
 Lab File: BG022270.D
 Acq: 9 Jun 2016 15:53

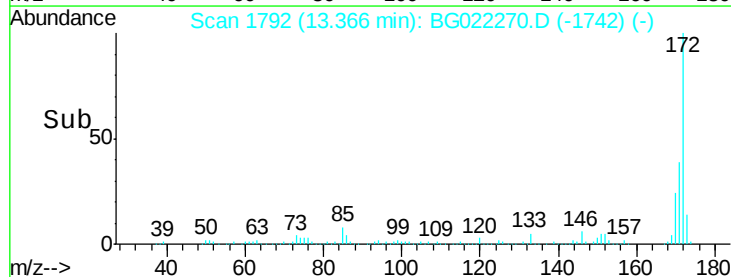
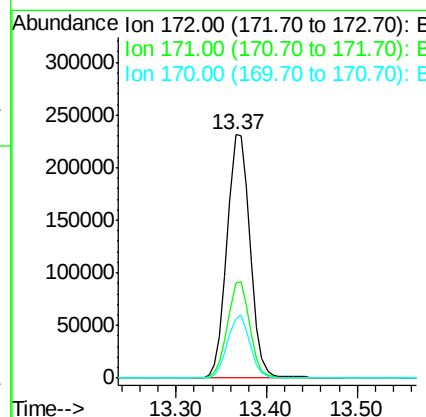
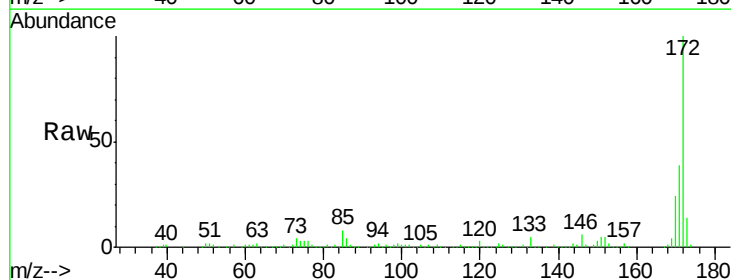
Instrument :
 BNA_G
 ClientSampleId :
 SS-47

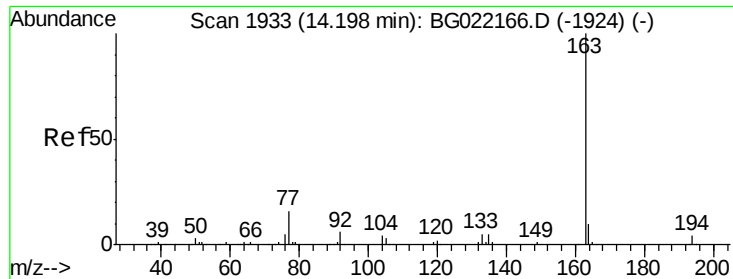
Tot Ion	Ratio	Lower	Upper
330	100		
332	94.4	78.0	117.0
141	39.5	33.8	50.8



#44
 2-Fluorobiphenyl
 Concen: 50.22 ng
 RT: 13.37 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: BG022270.D
 Acq: 9 Jun 2016 15:53

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.8	27.8	41.6
170	24.4	19.6	29.4





#49

Dimethylphthalate

Concen: 5.04 ng

RT: 14.19 min Scan# 1932

Delta R.T. -0.01 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Instrument :

BNA_G

ClientSampleId :

SS-47

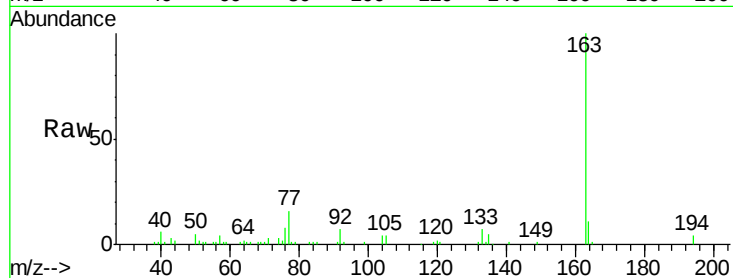
Tot Ion:163 Resp: 52111

Ion Ratio Lower Upper

163 100

194 4.1 3.0 4.6

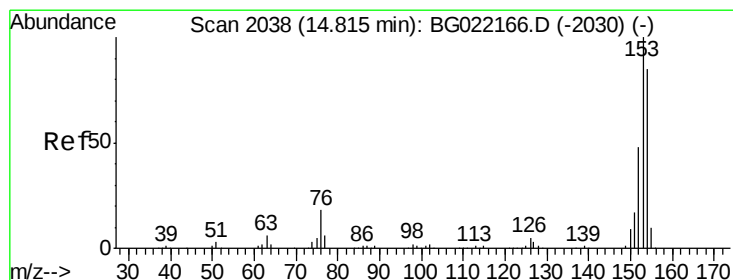
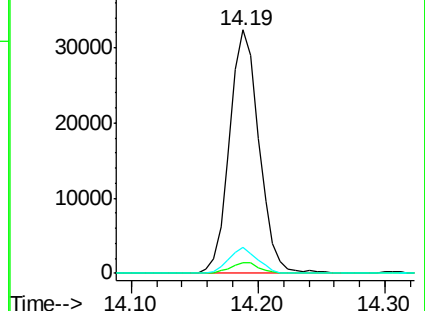
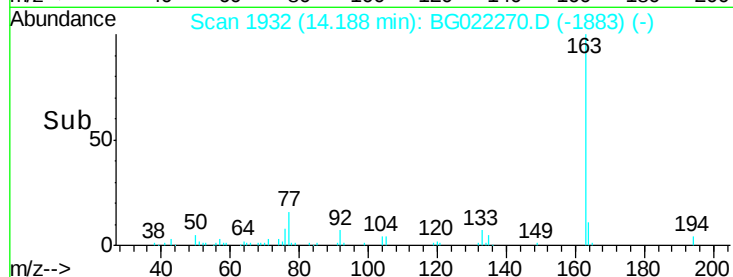
164 10.8 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 3.53 ng

RT: 14.81 min Scan# 2038

Delta R.T. -0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

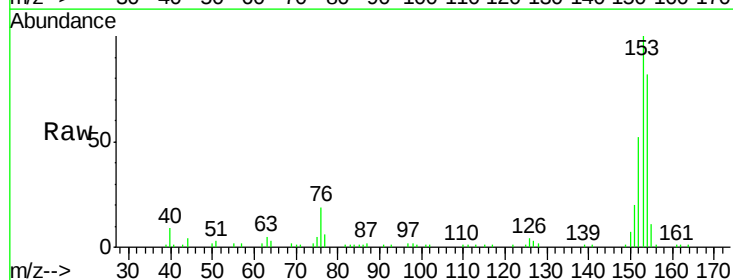
Tgt Ion:154 Resp: 26735

Ion Ratio Lower Upper

154 100

153 121.6 91.9 137.9

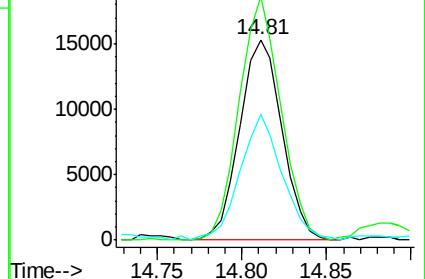
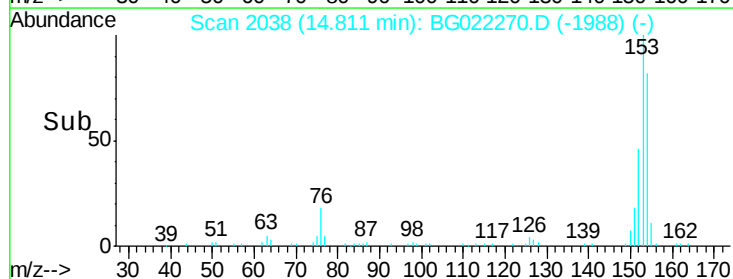
152 62.8 42.0 63.0

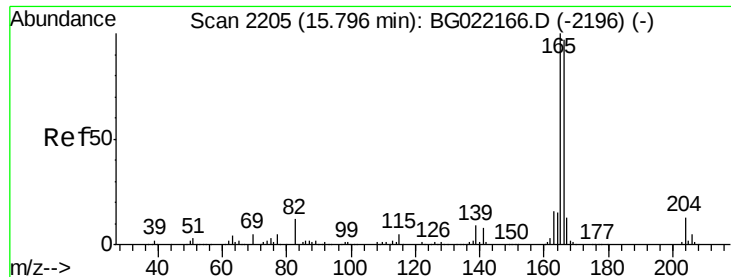


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

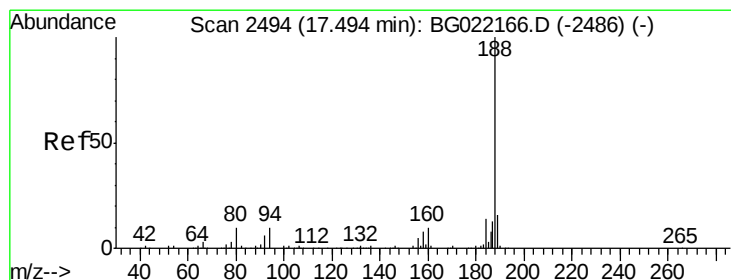
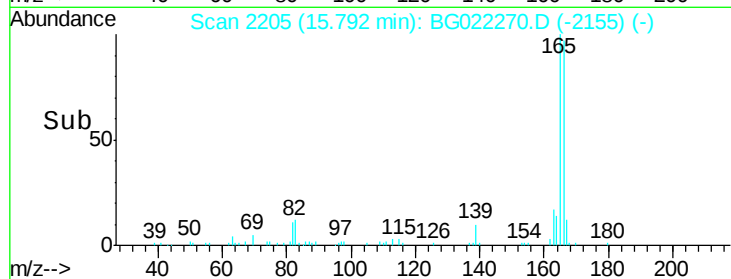
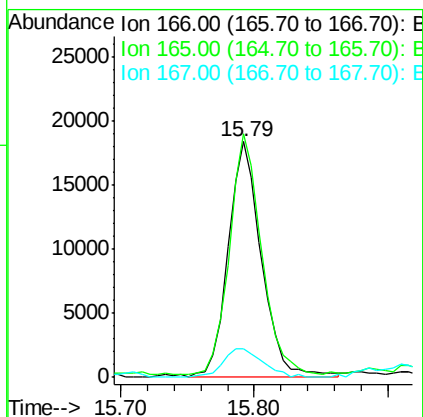
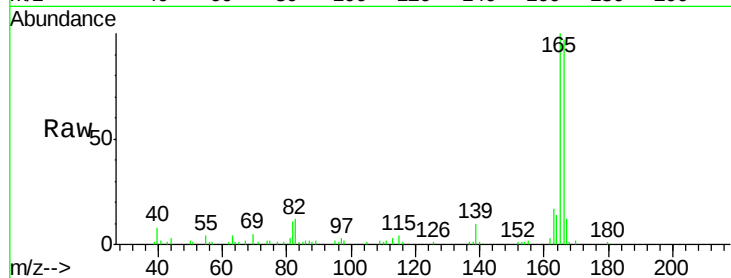




#57
Fluorene
 Concen: 3.15 ng
 RT: 15.79 min Scan# 2205
 Delta R.T. -0.00 min
 Lab File: BG022270.D
 Acq: 9 Jun 2016 15:53

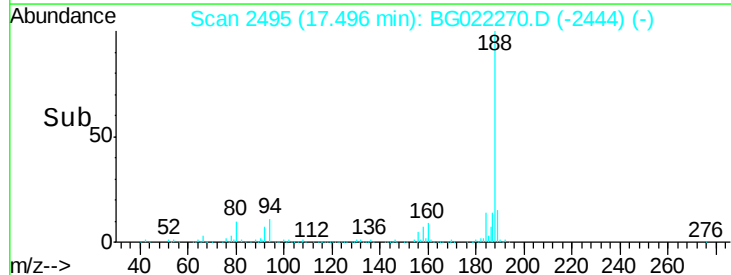
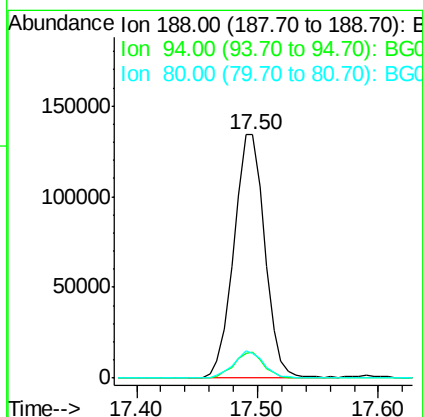
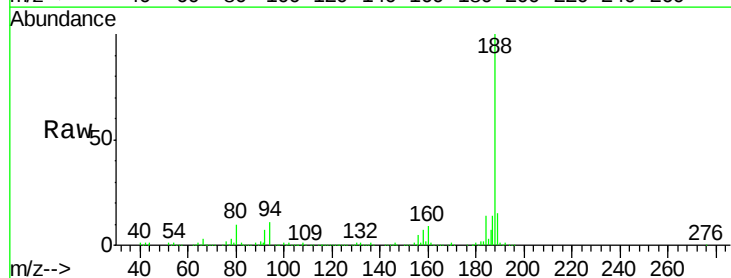
Instrument :
 BNA_G
 ClientSampleId :
 SS-47

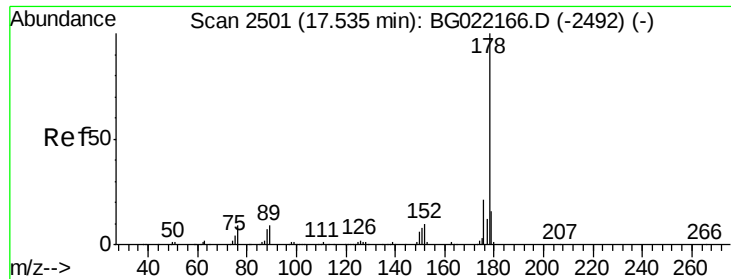
Tot Ion:166 Resp: 32022
 Ion Ratio Lower Upper
 166 100
 165 103.3 79.0 118.4
 167 12.4 10.7 16.1



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 17.50 min Scan# 2495
 Delta R.T. 0.00 min
 Lab File: BG022270.D
 Acq: 9 Jun 2016 15:53

Tgt Ion:188 Resp: 240648
 Ion Ratio Lower Upper
 188 100
 94 10.8 7.5 11.3
 80 10.3 8.6 13.0





#70

Phenanthrene

Concen: 32.62 ng

RT: 17.54 min Scan# 2502

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Instrument :

BNA_G

ClientSampleId :

SS-47

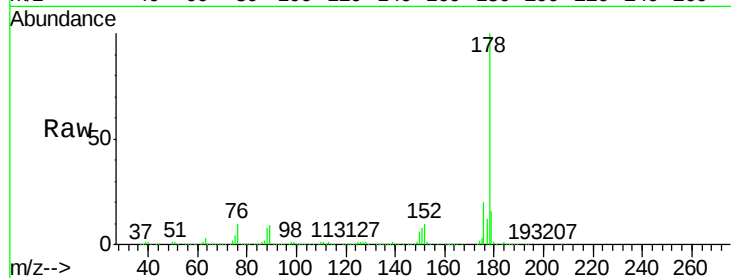
Tot Ion:178 Resp: 426350

Ion Ratio Lower Upper

178 100

176 20.1 16.2 24.4

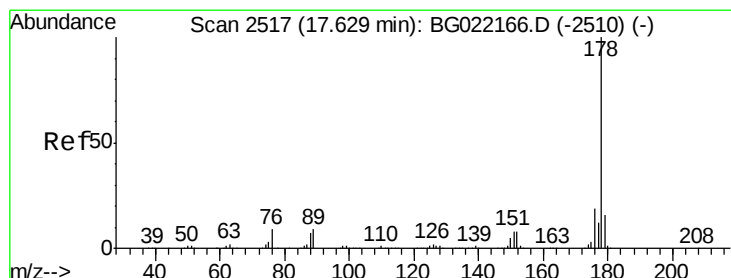
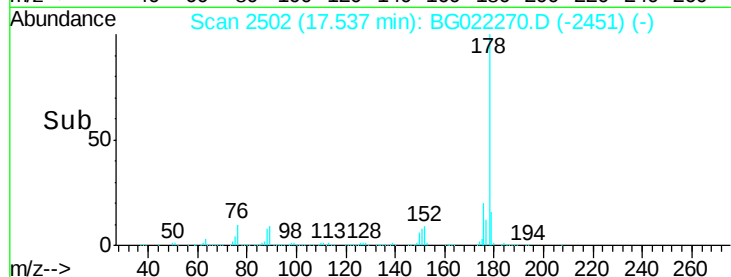
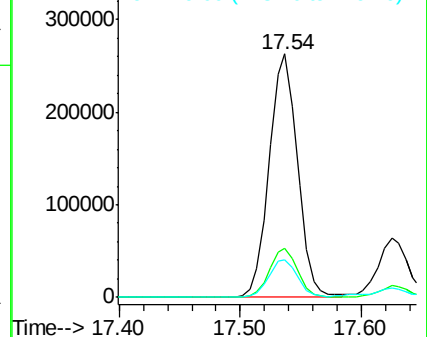
179 15.7 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 8.04 ng

RT: 17.63 min Scan# 2517

Delta R.T. -0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

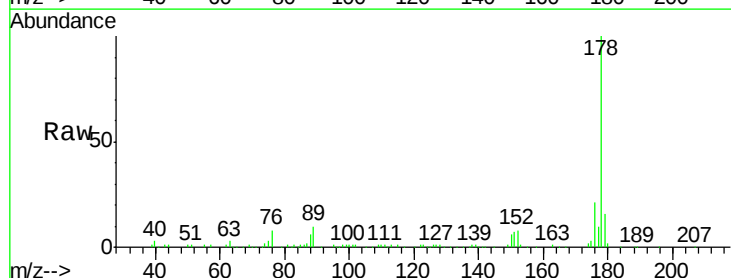
Tgt Ion:178 Resp: 104168

Ion Ratio Lower Upper

178 100

176 20.6 15.0 22.4

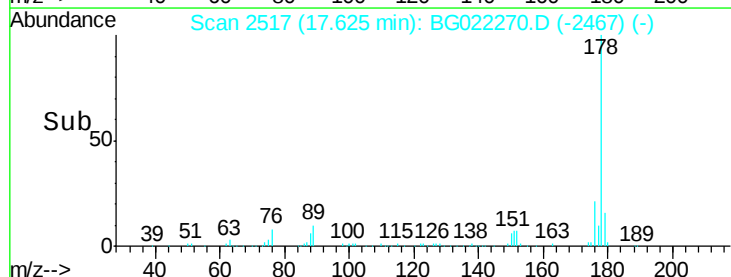
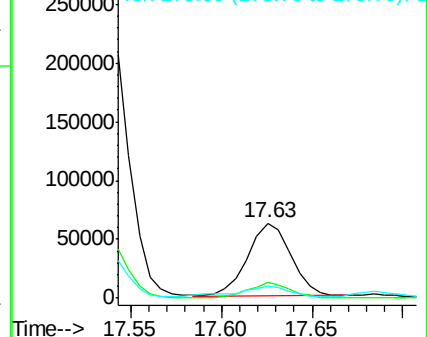
179 16.1 12.2 18.4

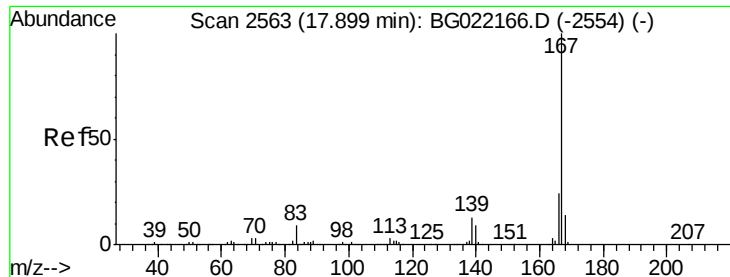


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.23 ng

RT: 17.90 min Scan# 2563

Delta R.T. -0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Instrument :

BNA_G

ClientSampleId :

SS-47

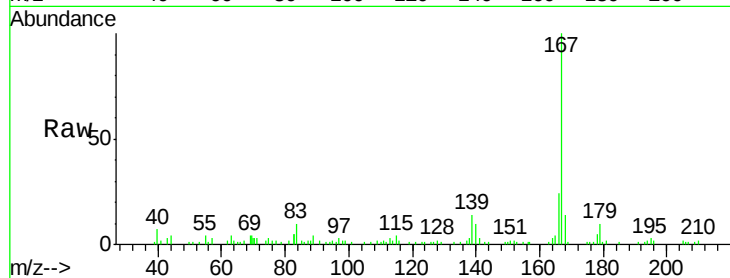
Tot Ion:167 Resp: 39689

Ion Ratio Lower Upper

167 100

166 24.4 18.6 27.8

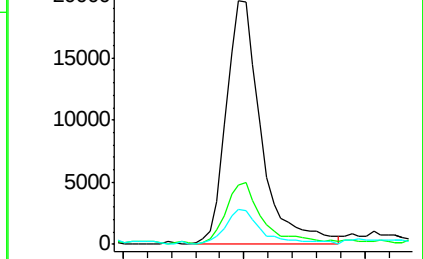
139 14.5 10.6 15.8



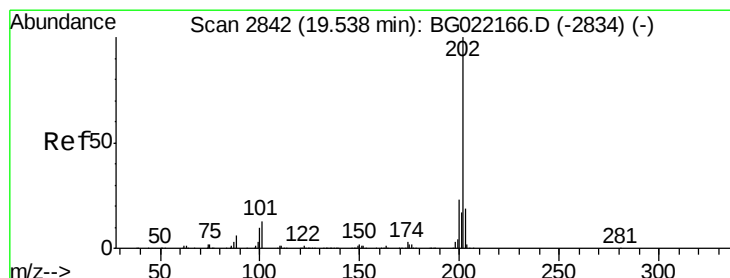
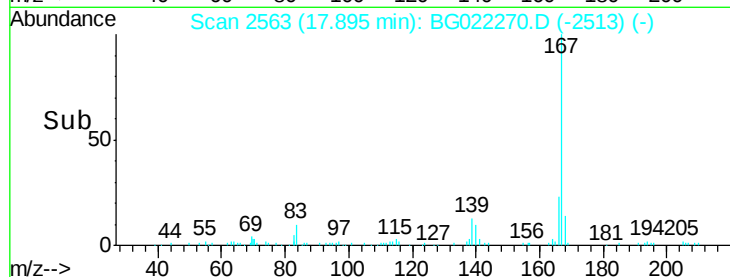
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time--> 17.80 17.90 18.00



#74

Fluoranthene

Concen: 40.40 ng

RT: 19.54 min Scan# 2843

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

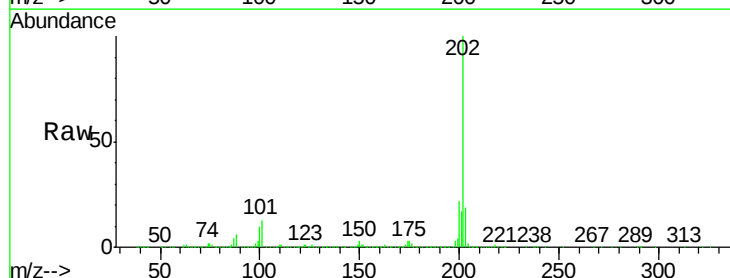
Tgt Ion:202 Resp: 607065

Ion Ratio Lower Upper

202 100

101 13.2 0.0 31.0

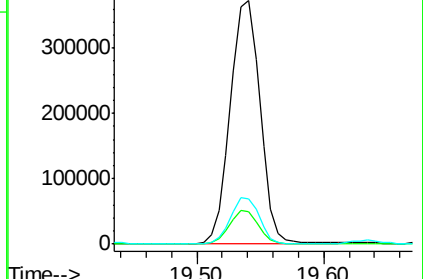
203 18.6 0.0 37.9



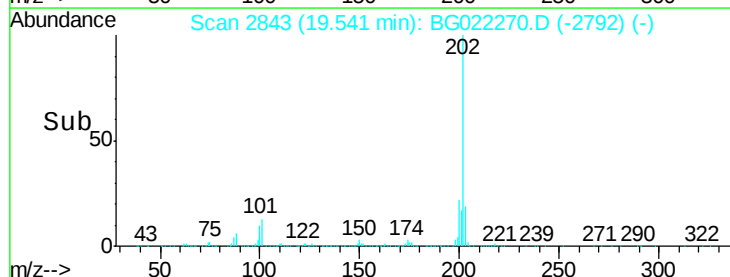
Abundance Ion 202.00 (201.70 to 202.70): E

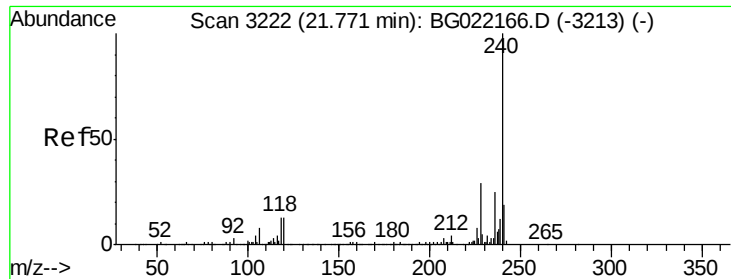
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 19.50 19.60





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.77 min Scan# 3223

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Instrument :

BNA_G

ClientSampleId :

SS-47

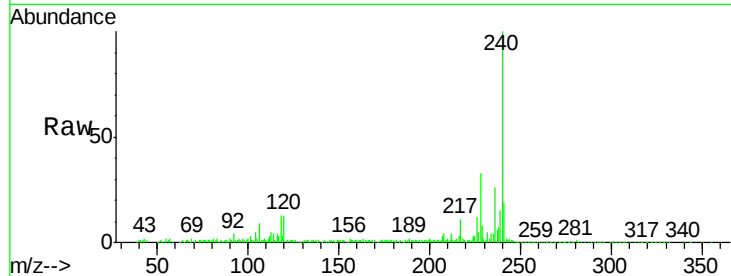
Tot Ion:240 Resp: 205261

Ion Ratio Lower Upper

240 100

120 12.9 8.4 12.6#

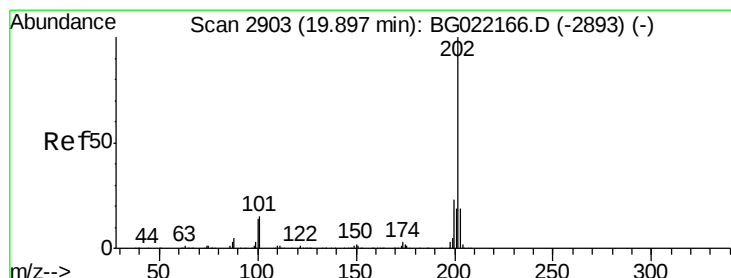
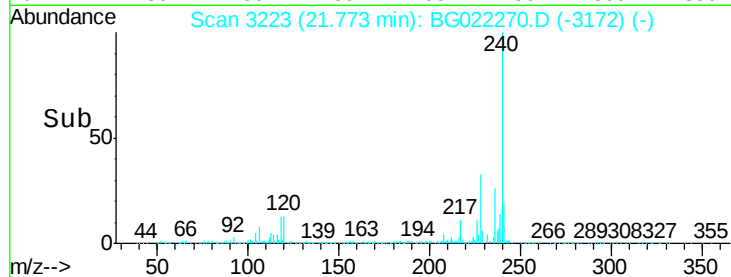
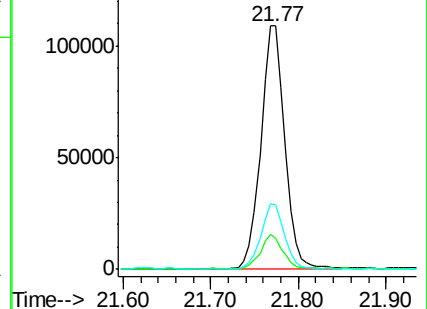
236 26.5 19.6 29.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 43.23 ng

RT: 19.90 min Scan# 2904

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

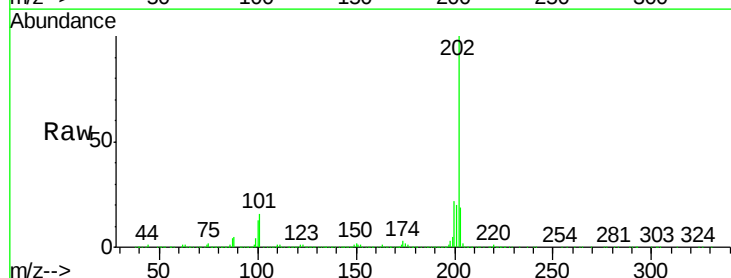
Tgt Ion:202 Resp: 551641

Ion Ratio Lower Upper

202 100

200 22.5 18.2 27.2

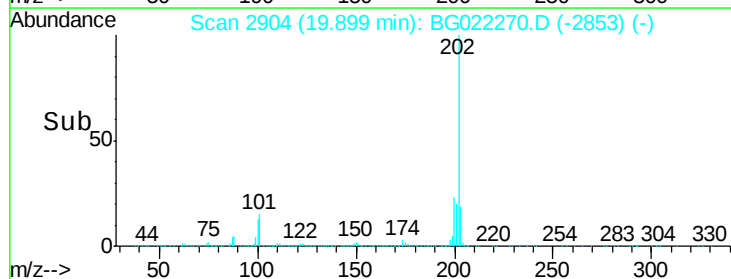
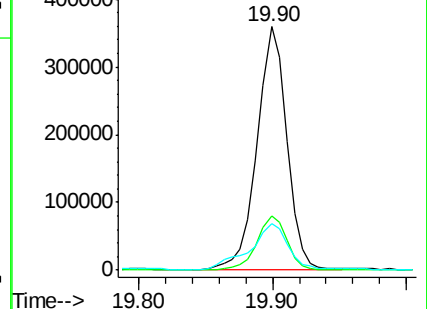
203 19.3 15.0 22.4

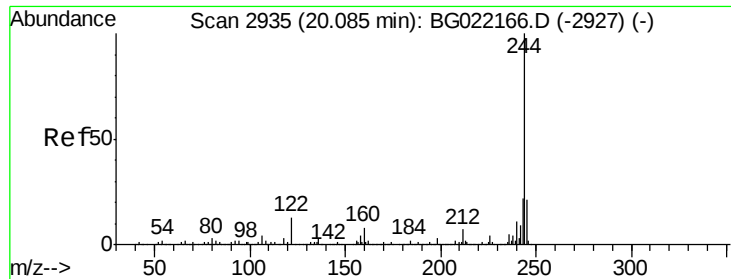


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 45.96 ng

RT: 20.09 min Scan# 2936

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Instrument :

BNA_G

ClientSampleId :

SS-47

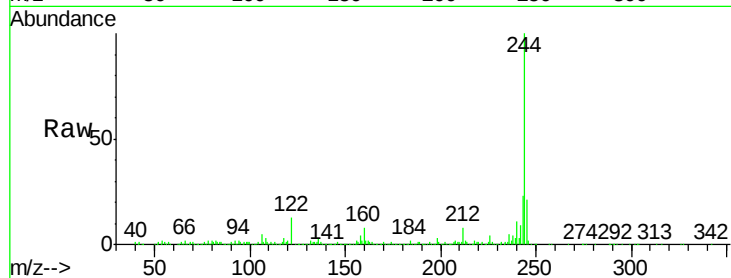
Tot Ion:244 Resp: 397381

Ion Ratio Lower Upper

244 100

212 7.7 6.5 9.7

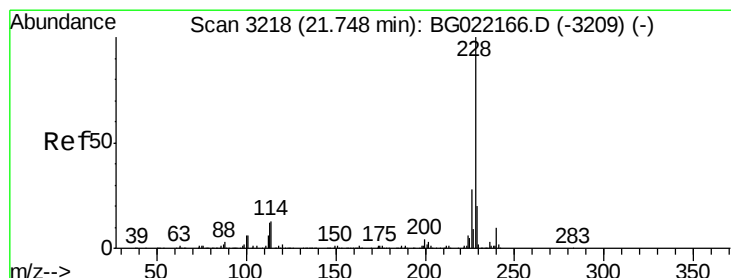
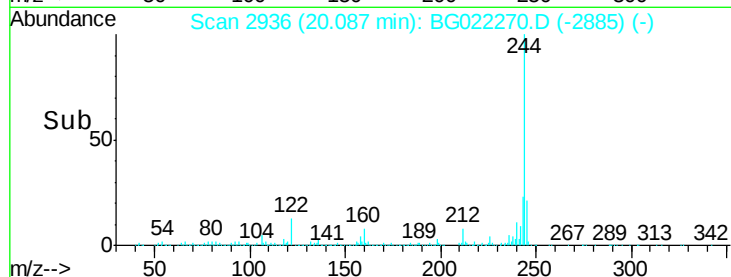
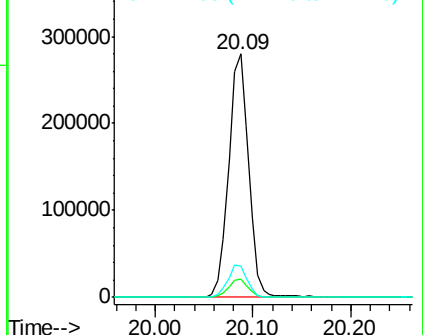
122 12.7 8.6 12.8



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 24.93 ng

RT: 21.75 min Scan# 3219

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

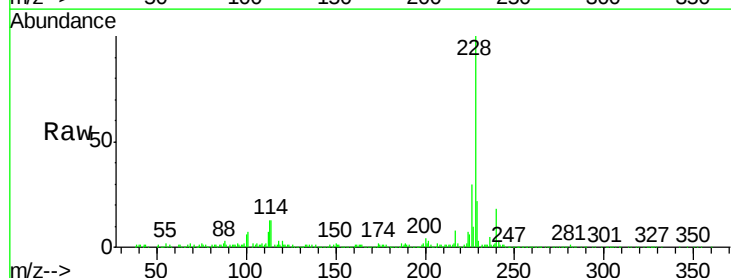
Tgt Ion:228 Resp: 286920

Ion Ratio Lower Upper

228 100

226 30.0 22.6 34.0

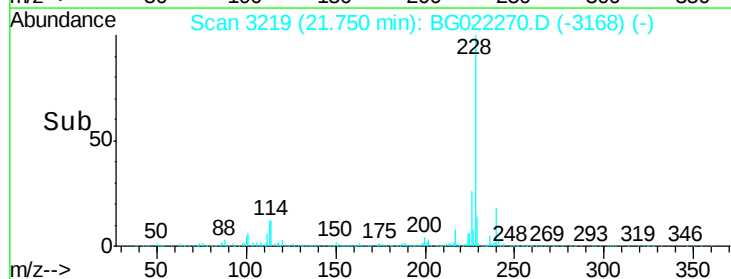
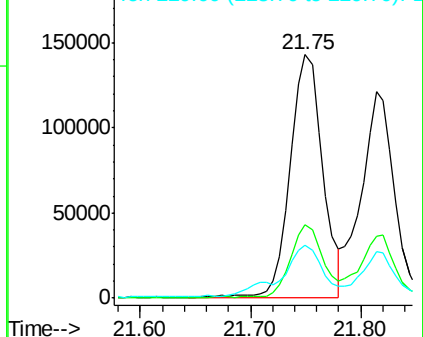
229 21.6 16.1 24.1

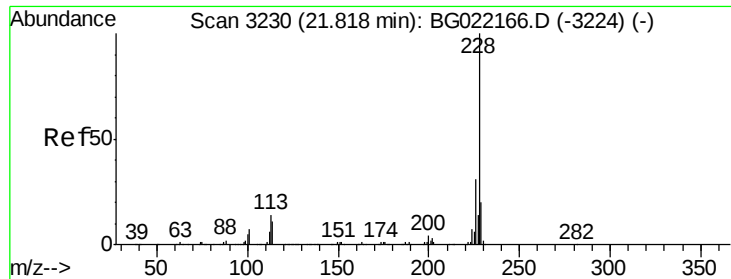


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 21.51 ng

RT: 21.81 min Scan# 3230

Delta R.T. -0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Instrument :

BNA_G

ClientSampleId :

SS-47

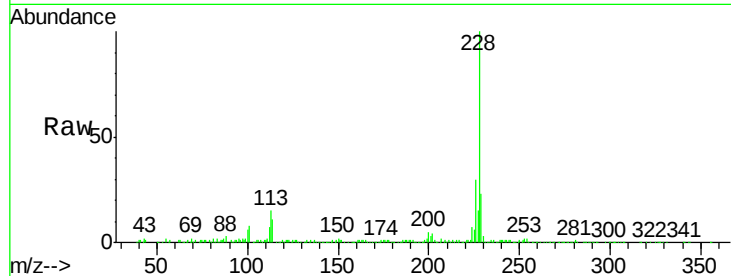
Tot Ion:228 Resp: 240875

Ion Ratio Lower Upper

228 100

226 30.2 25.4 38.0

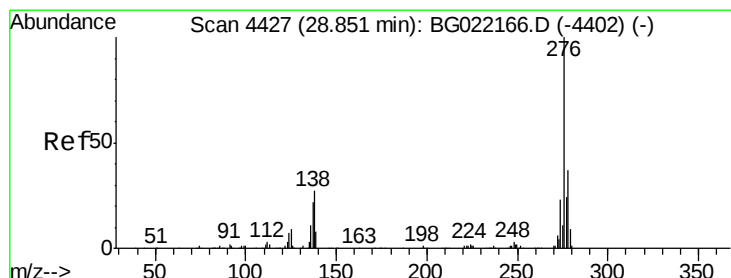
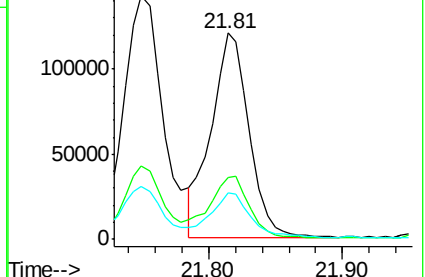
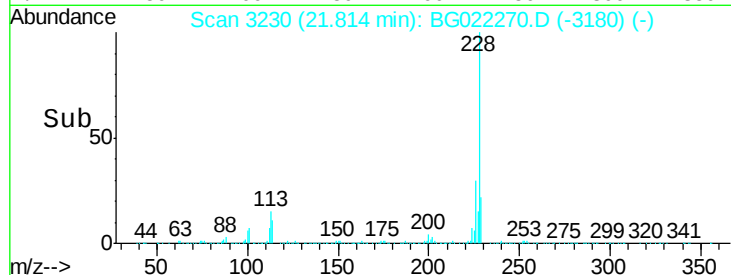
229 22.8 15.9 23.9



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.36 ng m

RT: 28.85 min Scan# 4428

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

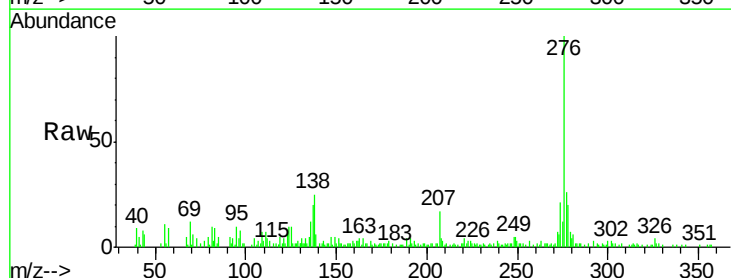
Tgt Ion:276 Resp: 117630

Ion Ratio Lower Upper

276 100

138 17.9 14.0 21.0

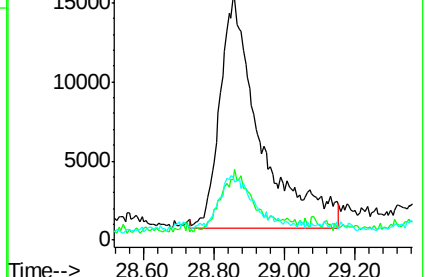
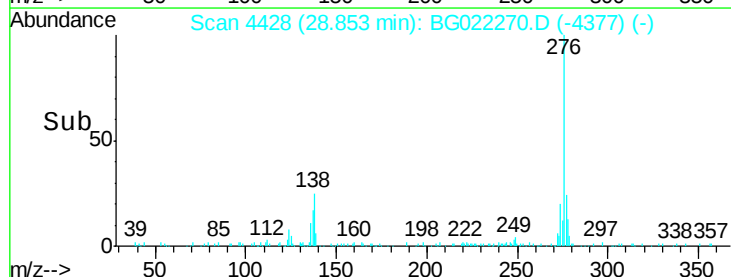
277 16.6 20.6 30.8#

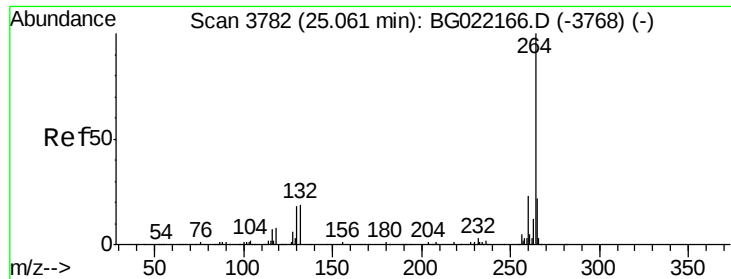


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

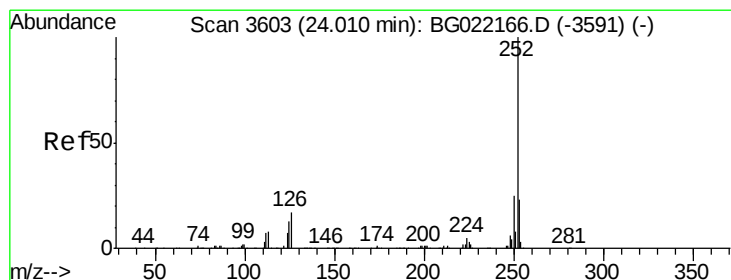
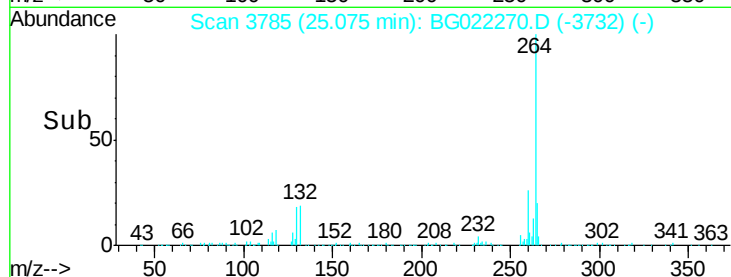
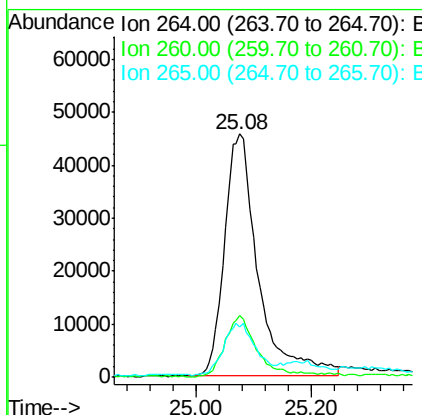
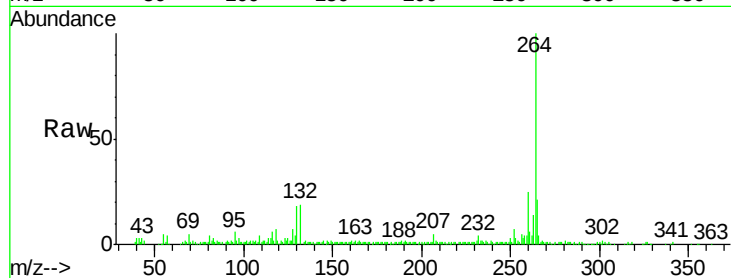




#86
Pervlene-d12
Concen: 20.00 ng
RT: 25.08 min Scan# 3785
Delta R.T. 0.01 min
Lab File: BG022270.D
Acq: 9 Jun 2016 15:53

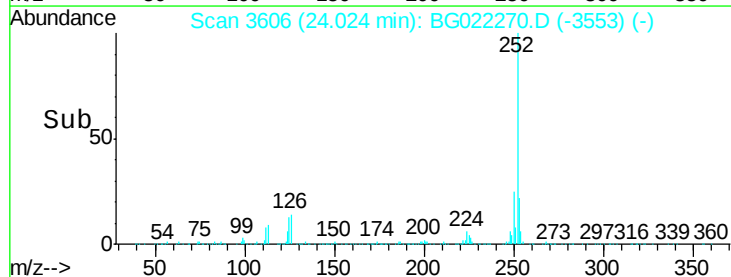
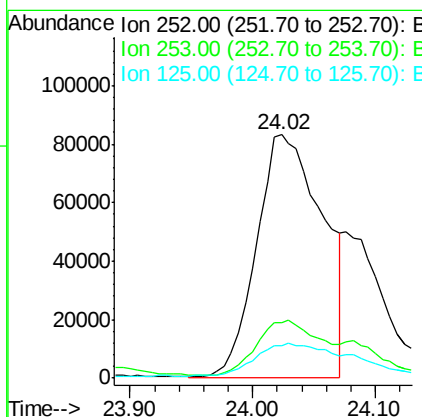
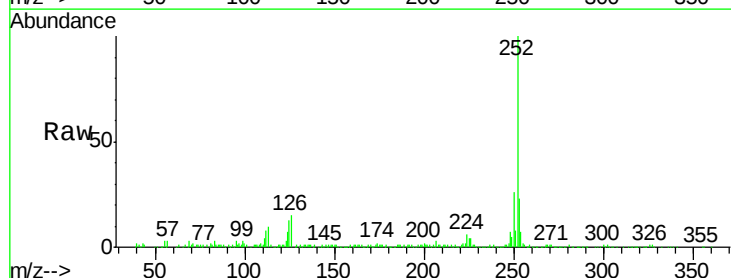
Instrument :
BNA_G
ClientSampleId :
SS-47

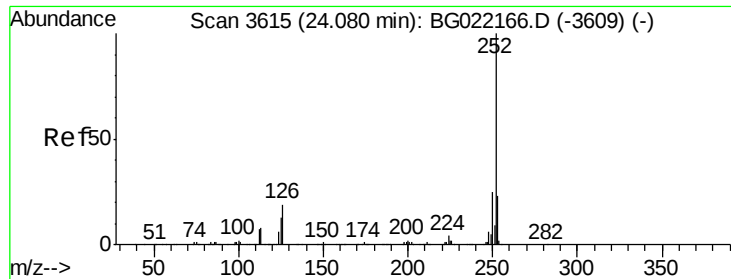
Tot Ion:264 Resp: 184977
Ion Ratio Lower Upper
264 100
260 25.5 20.2 30.4
265 20.7 17.8 26.8



#87
Benzo(b)fluoranthene
Concen: 28.89 ng m
RT: 24.02 min Scan# 3606
Delta R.T. 0.01 min
Lab File: BG022270.D
Acq: 9 Jun 2016 15:53

Tgt Ion:252 Resp: 311638
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 13.5 8.6 13.0#

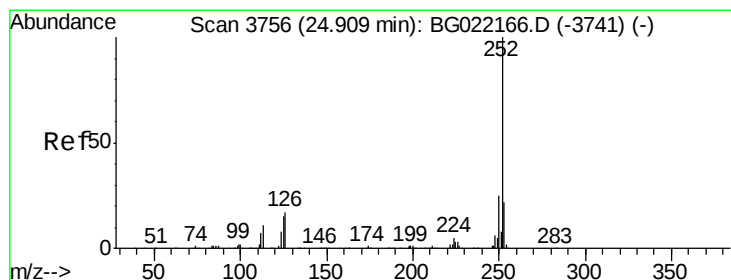
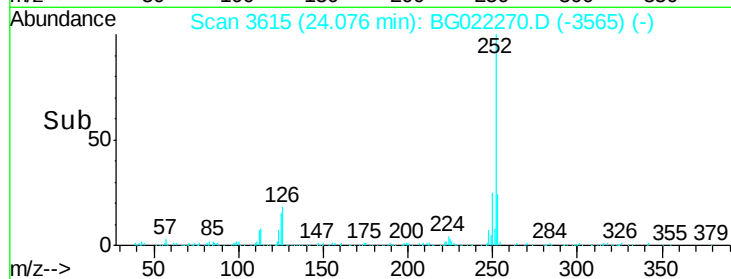
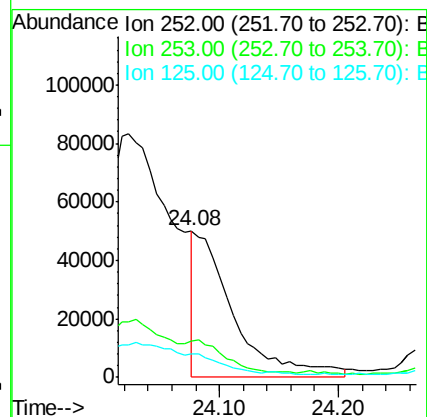
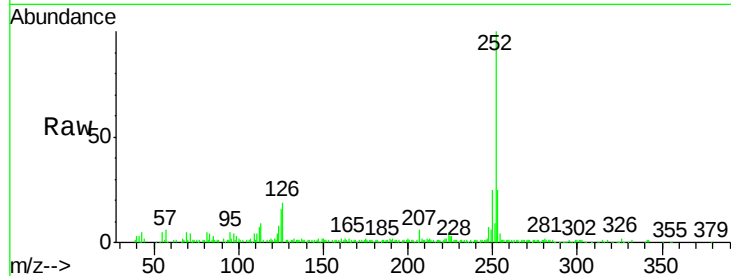




#88
Benzo(k)fluoranthene
Concen: 10.42 ng m
RT: 24.08 min Scan# 3615
Delta R.T. -0.00 min
Lab File: BG022270.D
Acq: 9 Jun 2016 15:53

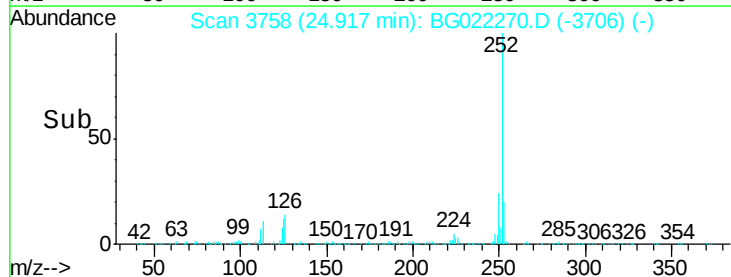
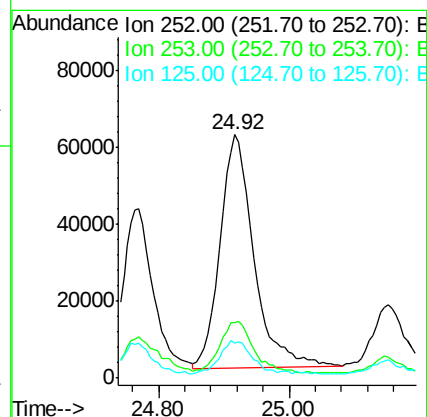
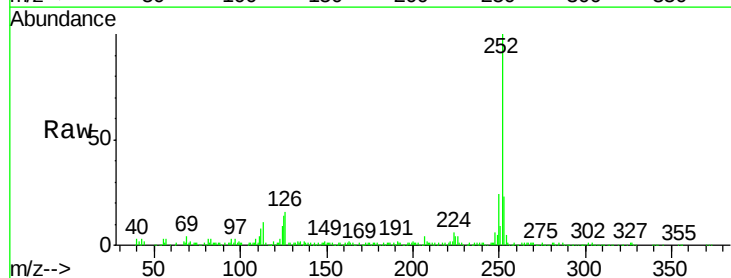
Instrument :
BNA_G
ClientSampled :
SS-47

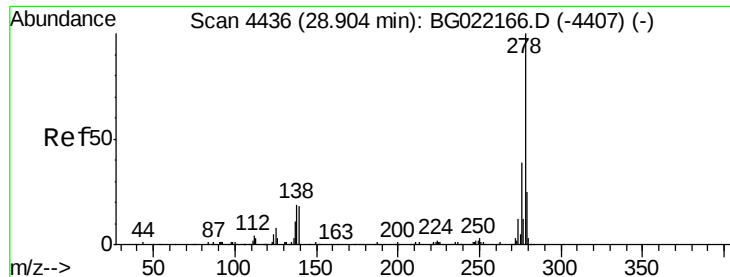
Tot Ion:252 Resp: 110690
Ion Ratio Lower Upper
252 100
253 25.0 17.8 26.8
125 16.4 8.3 12.5#



#89
Benzo(a)pyrene
Concen: 21.19 ng
RT: 24.92 min Scan# 3758
Delta R.T. 0.01 min
Lab File: BG022270.D
Acq: 9 Jun 2016 15:53

Tgt Ion:252 Resp: 218580
Ion Ratio Lower Upper
252 100
253 22.9 17.1 25.7
125 14.3 9.6 14.4





#90

Dibenzo(a,h)anthracene

Concen: 2.22 ng m

RT: 28.91 min Scan# 4437

Delta R.T. 0.00 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Instrument :

BNA_G

ClientSampleId :

SS-47

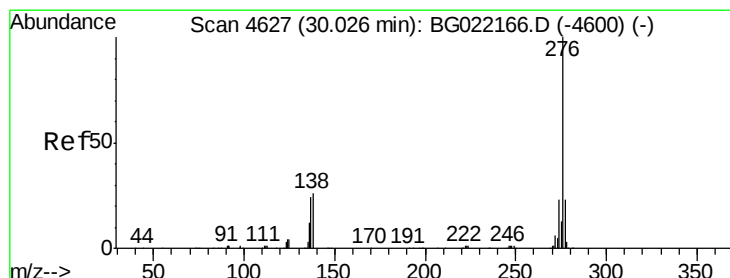
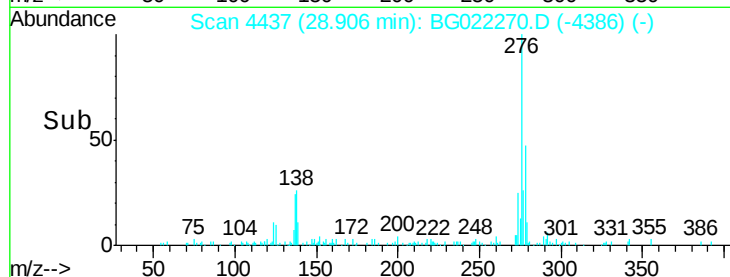
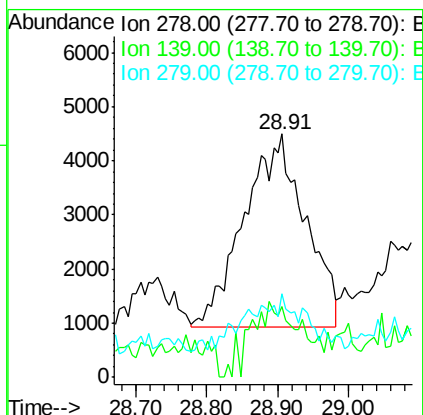
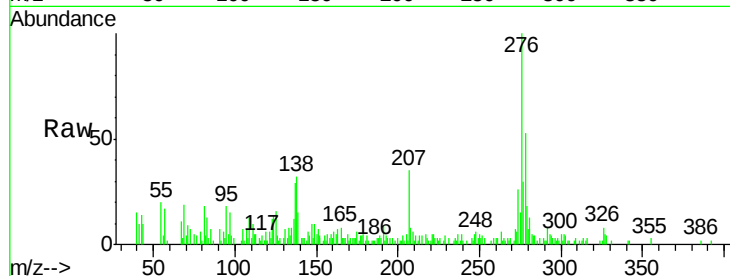
Tot Ion:278 Resp: 21612

Ion Ratio Lower Upper

278 100

139 29.2 11.9 17.9#

279 34.3 18.2 27.2#



#91

Benzo(g,h,i)perylene

Concen: 9.73 ng m

RT: 30.04 min Scan# 4630

Delta R.T. 0.01 min

Lab File: BG022270.D

Acq: 9 Jun 2016 15:53

Tgt Ion:276 Resp: 98324

Ion Ratio Lower Upper

276 100

277 21.9 19.4 29.2

138 29.7 17.4 26.0#

