

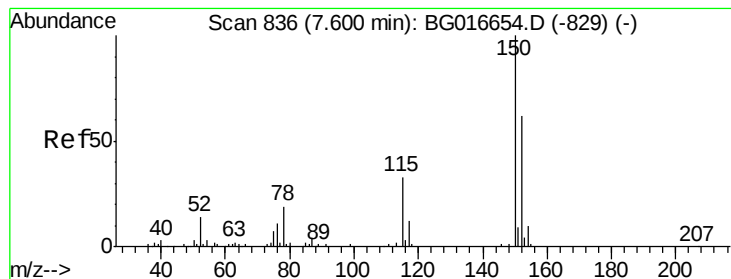
Data Path : Z:\HPCHEM1\BNA G\DATA\BG042815\
 Data File : BG016770.D
 Acq On : 28 Apr 2015 18:26
 Operator : TP/IZ
 Sample : G1991-13DL 25X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-63SDL

Quant Time: Apr 29 01:33:12 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG042315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 29 00:55:31 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.56	152	68314	20.00	ng	0.00
21) Naphthalene-d8	10.35	136	304182	20.00	ng	0.00
38) Acenaphthene-d10	14.22	164	165885	20.00	ng	0.00
63) Phenanthrene-d10	16.97	188	306146	20.00	ng	0.00
75) Chrysene-d12	21.16	240	257747	20.00	ng	0.00
86) Perylene-d12	23.36	264	248222	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.16	112	17278	4.10	ng	0.00
7) Phenol-d6	6.77	99	22579	3.82	ng	0.00
23) Nitrobenzene-d5	8.73	82	11797	2.45	ng	0.00
41) 2,4,6-Tribromophenol	15.72	330	4132	3.36	ng	0.00
44) 2-Fluorobiphenyl	12.84	172	29273	2.84	ng	0.00
78) Terphenyl-d14	19.60	244	30759	2.75	ng	0.00
Target Compounds						Qvalue
51) Acenaphthene	14.28	154	25854	2.46	ng	94
57) Fluorene	15.28	166	27915	2.15	ng	98
70) Phenanthrene	17.01	178	642198	36.51	ng	99
71) Anthracene	17.10	178	149055	8.52	ng	97
72) Carbazole	17.38	167	47843	2.73	ng	96
74) Fluoranthene	19.04	202	960697	51.55	ng	97
77) Pyrene	19.40	202	871123	48.11	ng	99
80) Benzo(a)anthracene	21.14	228	359665	23.01	ng	99
82) Chrysene	21.19	228	318560	21.26	ng	98
85) Indeno(1,2,3-cd)pyrene	25.58	276	143156	8.77	ng	# 89
87) Benzo(b)fluoranthene	22.70	252	324068m	21.49	ng	
88) Benzo(k)fluoranthene	22.73	252	127205m	8.65	ng	
89) Benzo(a)pyrene	23.26	252	258075	18.16	ng	96
90) Dibenzo(a,h)anthracene	25.58	278	38559	2.79	ng	# 64
91) Benzo(a,h,i)perylene	26.27	276	135871	9.67	ng	100

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.56 min Scan# 830

Delta R.T. -0.00 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

Instrument :

BNA_G

ClientSampleId :

SB-63SDL

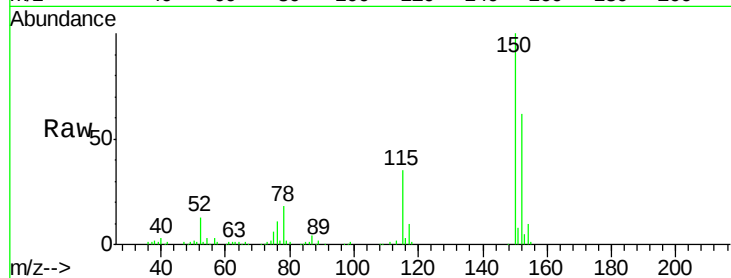
Tot Ion:152 Resp: 68314

Ion Ratio Lower Upper

152 100

150 160.7 129.6 194.4

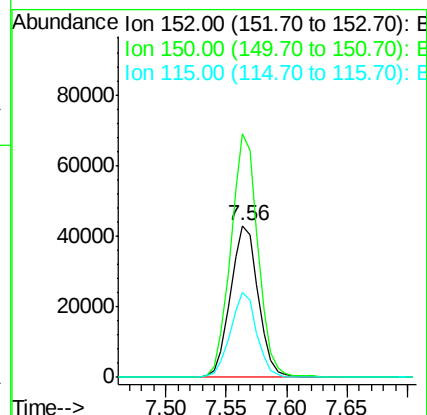
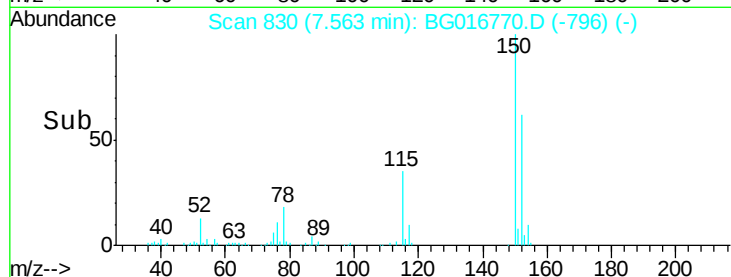
115 55.8 43.0 64.6



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: 4.10 ng

RT: 5.16 min Scan# 421

Delta R.T. 0.00 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

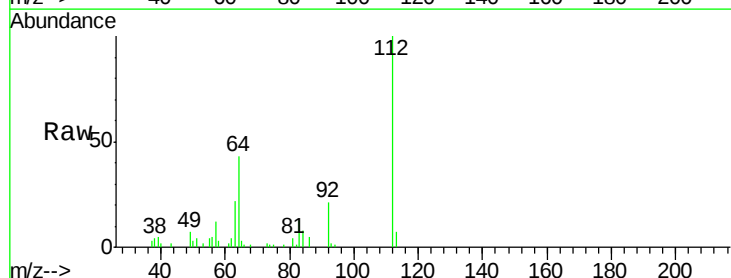
Tgt Ion:112 Resp: 17278

Ion Ratio Lower Upper

112 100

64 43.0 38.3 57.5

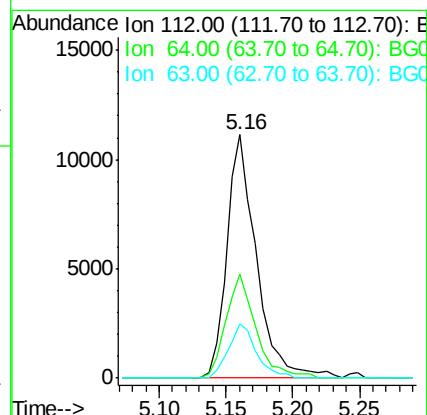
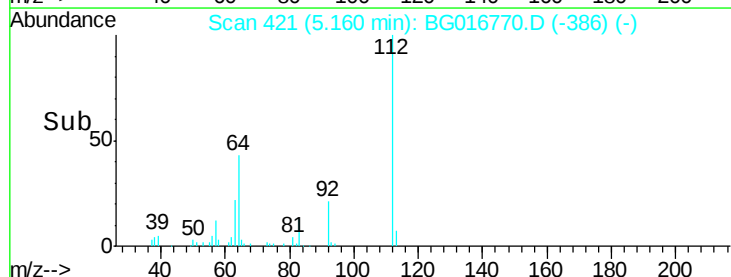
63 22.5 18.9 28.3

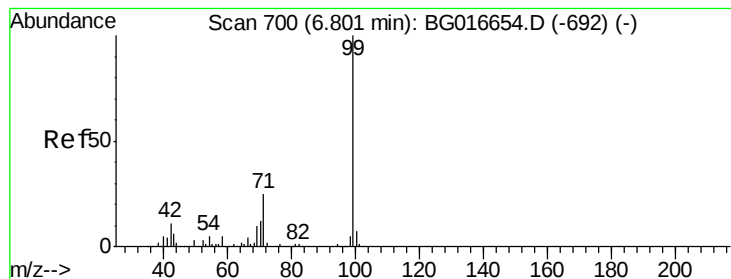


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 3.82 ng

RT: 6.77 min Scan# 695

Delta R.T. -0.00 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

Instrument :

BNA_G

ClientSampleId :

SB-63SDL

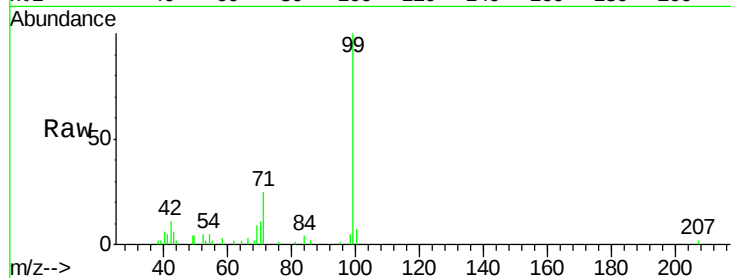
Tot Ion: 99 Resp: 22579

Ion Ratio Lower Upper

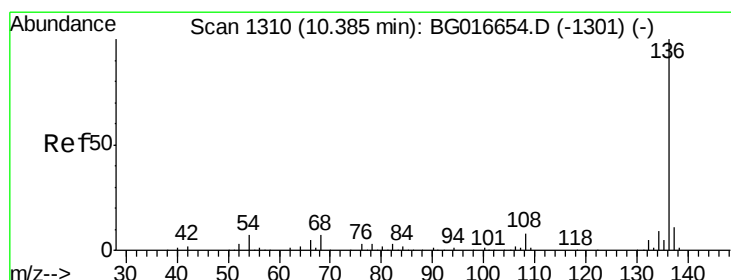
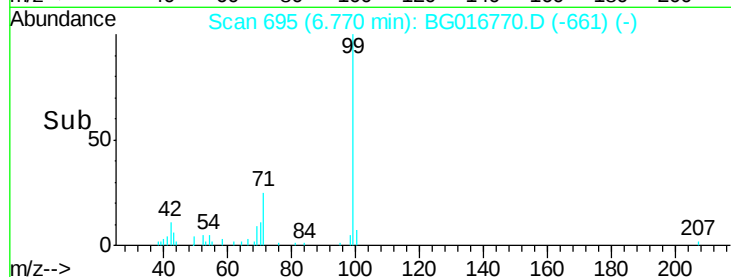
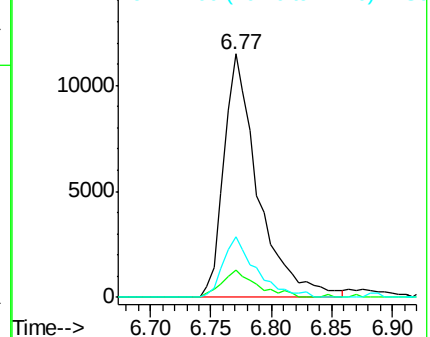
99 100

42 11.4 8.8 13.2

71 24.7 19.9 29.9



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: 10.35 min Scan# 1304

Delta R.T. -0.00 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

Tgt Ion: 136 Resp: 304182

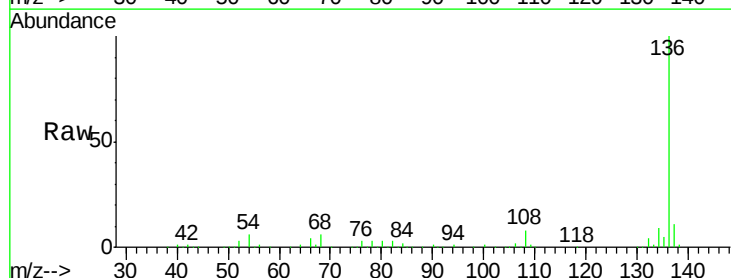
Ion Ratio Lower Upper

136 100

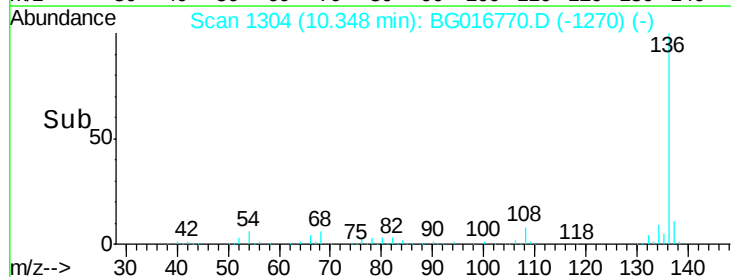
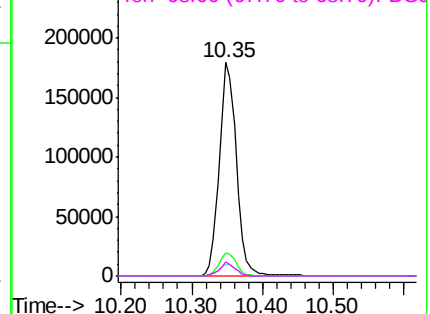
137 11.0 8.5 12.7

54 5.6 5.4 8.2

68 6.4 5.2 7.8



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

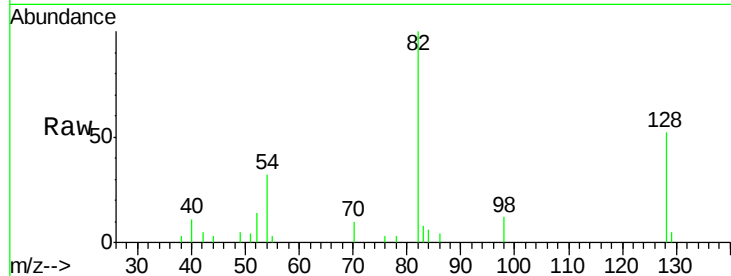




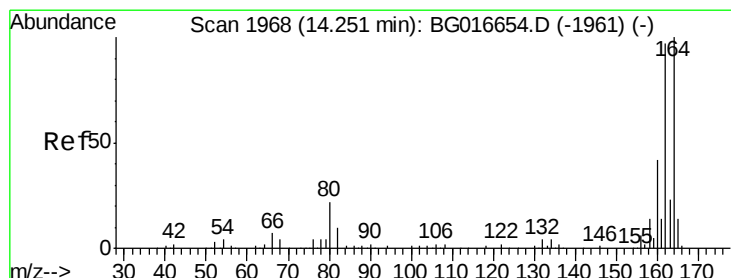
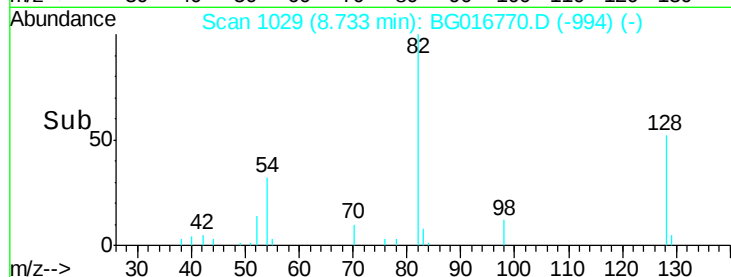
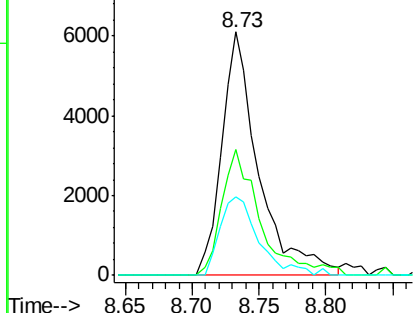
#23
 Nitrobenzene-d5
 Concen: 2.45 ng
 RT: 8.73 min Scan# 1029
 Delta R.T. 0.00 min
 Lab File: BG016770.D
 Acq: 28 Apr 2015 18:26

Instrument :
 BNA_G
 ClientSampleId :
 SB-63SDL

Tot Ion: 82 Resp: 11797
 Ion Ratio Lower Upper
 82 100
 128 51.6 44.7 67.1
 54 32.3 30.9 46.3

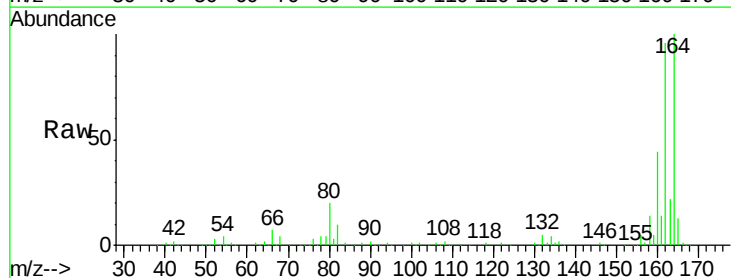


Abundance Ion 82.00 (81.70 to 82.70): BGC
 Ion 128.00 (127.70 to 128.70): BGC
 Ion 54.00 (53.70 to 54.70): BGC

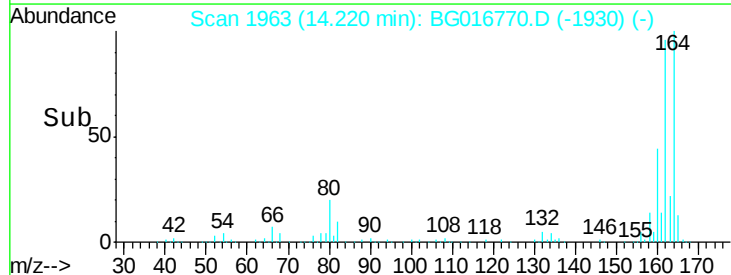
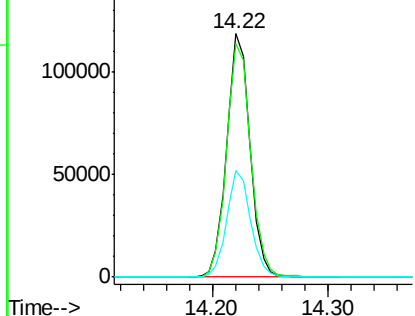


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.22 min Scan# 1963
 Delta R.T. -0.01 min
 Lab File: BG016770.D
 Acq: 28 Apr 2015 18:26

Tgt Ion: 164 Resp: 165885
 Ion Ratio Lower Upper
 164 100
 162 95.9 77.3 115.9
 160 43.7 33.7 50.5



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

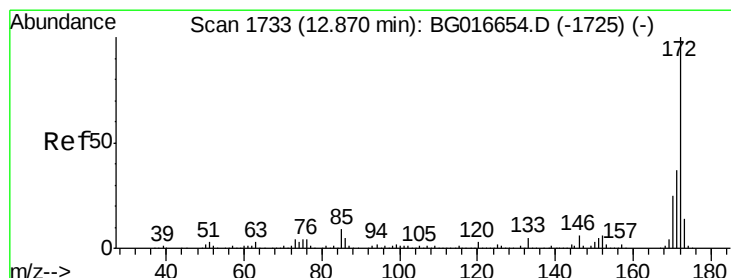
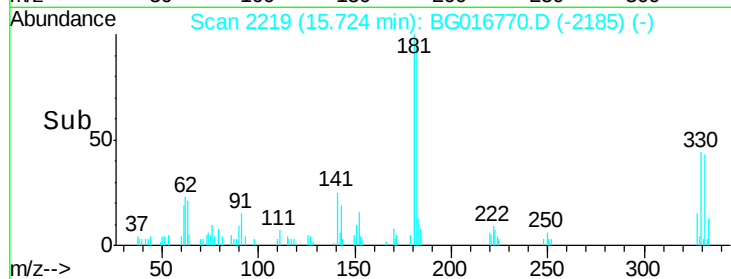
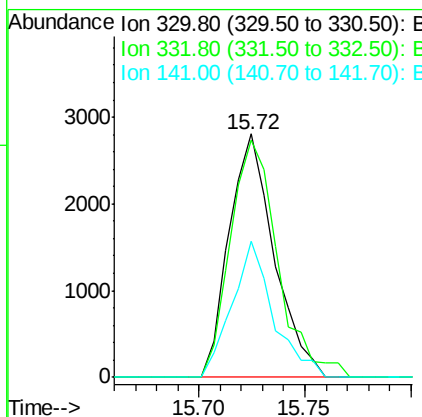
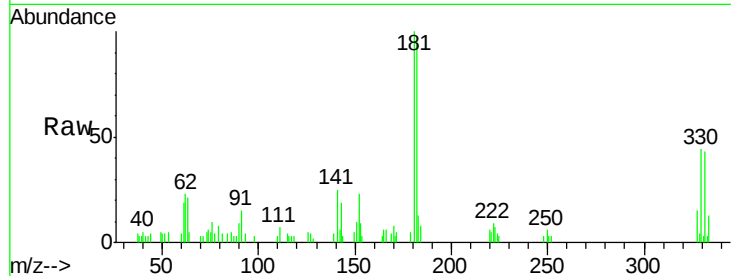




#41
 2,4,6-Tribromophenol
 Concen: 3.36 ng
 RT: 15.72 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: BG016770.D
 Acq: 28 Apr 2015 18:26

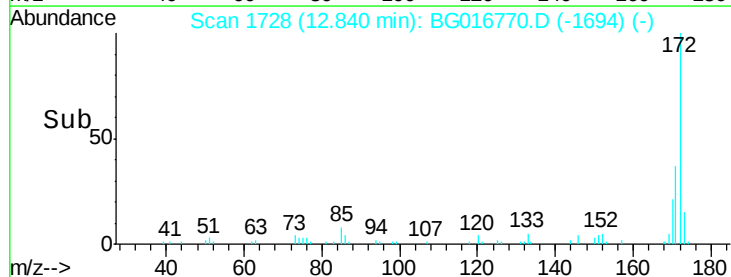
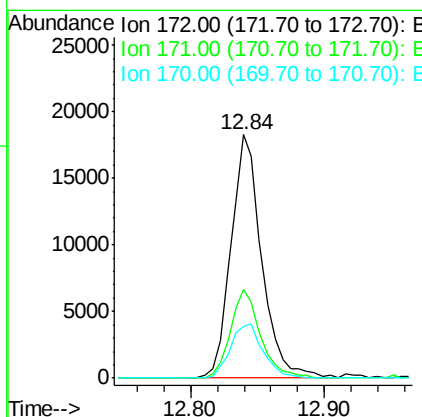
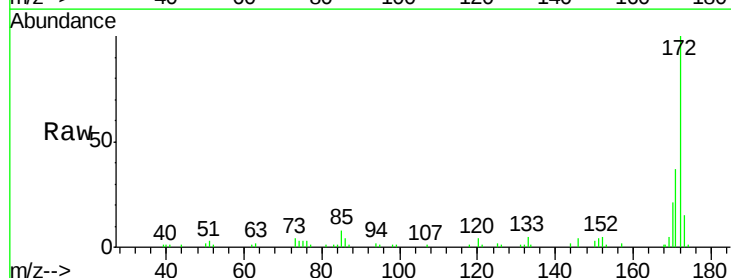
Instrument :
 BNA_G
 ClientSampleId :
 SB-63SDL

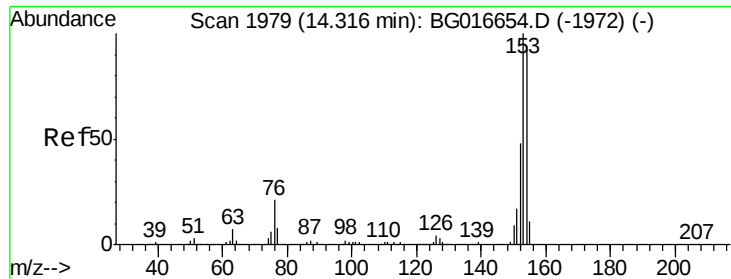
Tot Ion:330 Resp: 4132
 Ion Ratio Lower Upper
 330 100
 332 103.0 76.2 114.4
 141 51.6 43.0 64.6



#44
 2-Fluorobiphenyl
 Concen: 2.84 ng
 RT: 12.84 min Scan# 1728
 Delta R.T. -0.00 min
 Lab File: BG016770.D
 Acq: 28 Apr 2015 18:26

Tgt Ion:172 Resp: 29273
 Ion Ratio Lower Upper
 172 100
 171 36.6 29.9 44.9
 170 21.0 19.8 29.8





#51

Acenaphthene

Concen: 2.46 ng

RT: 14.28 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

Instrument :

BNA_G

ClientSampleId :

SB-63SDL

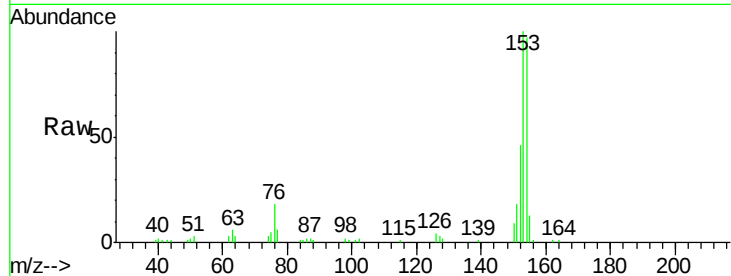
Tot Ion:154 Resp: 25854

Ion Ratio Lower Upper

154 100

153 103.2 87.0 130.6

152 47.6 41.6 62.4



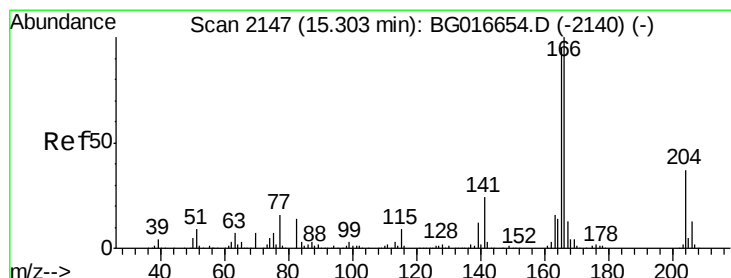
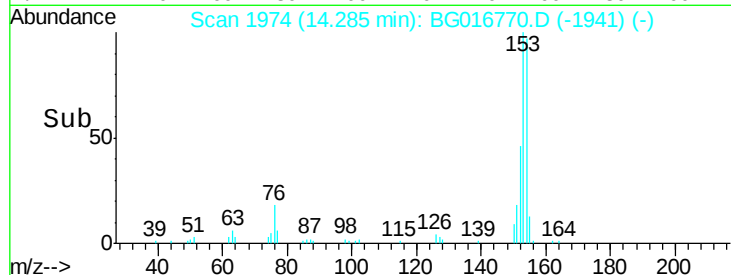
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

14.28

Time-->



#57

Fluorene

Concen: 2.15 ng

RT: 15.28 min Scan# 2143

Delta R.T. 0.00 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

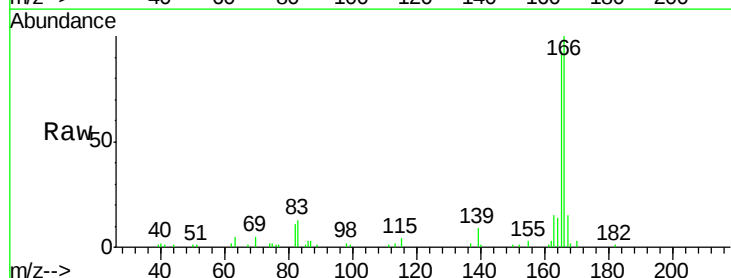
Tgt Ion:166 Resp: 27915

Ion Ratio Lower Upper

166 100

165 93.0 75.6 113.4

167 15.4 10.7 16.1



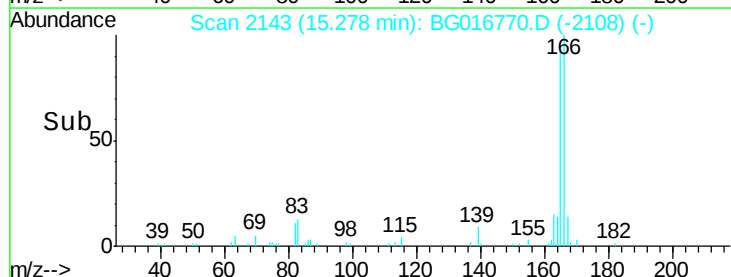
Abundance Ion 166.00 (165.70 to 166.70): E

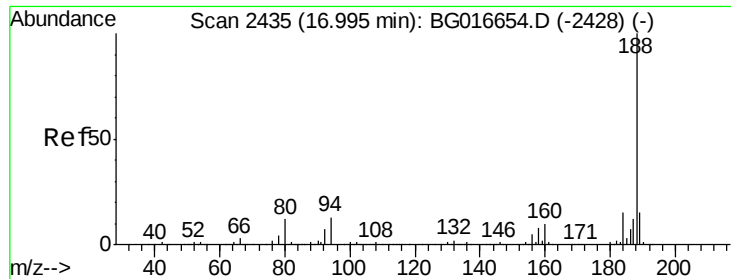
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

15.28

Time-->





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 16.97 min Scan# 2431

Delta R.T. -0.00 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

Instrument :

BNA_G

ClientSampleId :

SB-63SDL

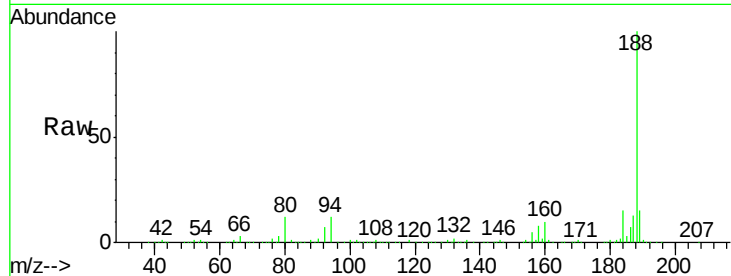
Tot Ion:188 Resp: 306146

Ion Ratio Lower Upper

188 100

94 11.9 10.7 16.1

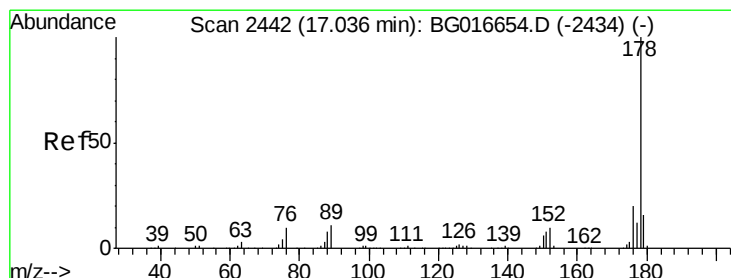
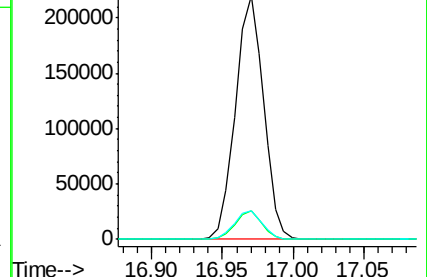
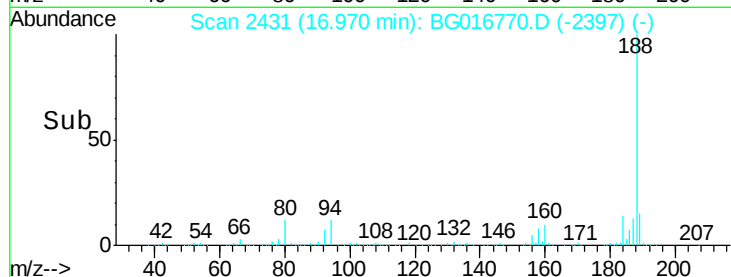
80 11.9 9.9 14.9



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): B

Ion 80.00 (79.70 to 80.70): B



#70

Phenanthrene

Concen: 36.51 ng

RT: 17.01 min Scan# 2438

Delta R.T. -0.00 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

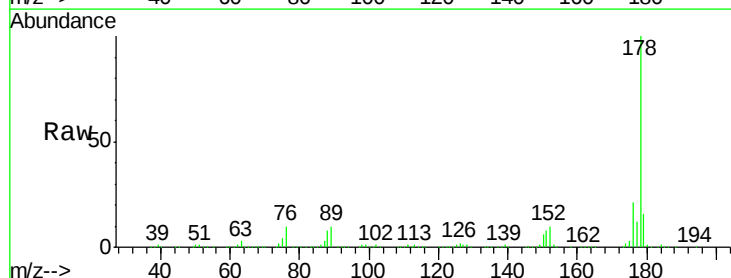
Tgt Ion:178 Resp: 642198

Ion Ratio Lower Upper

178 100

176 20.6 15.8 23.6

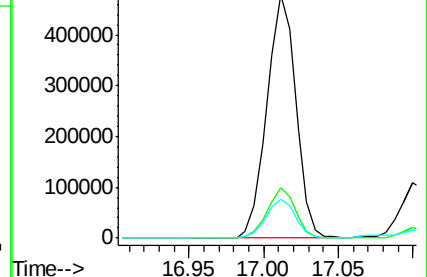
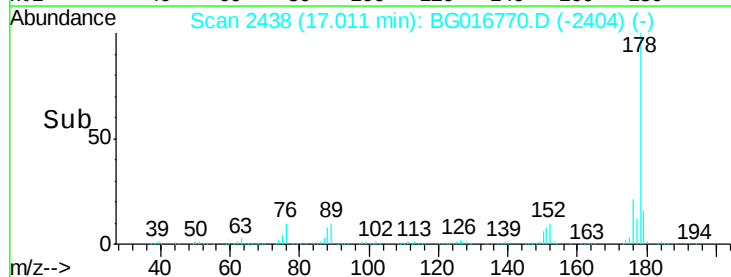
179 16.1 12.8 19.2

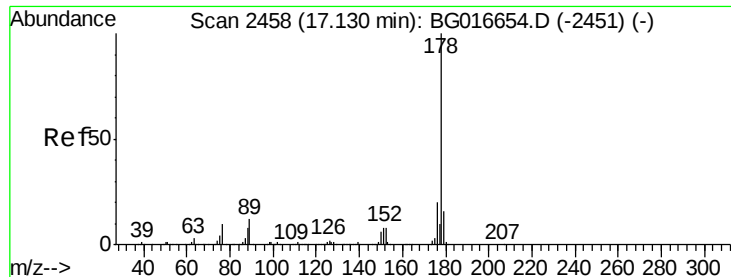


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

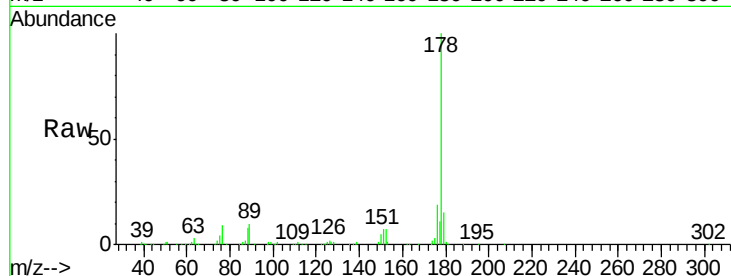




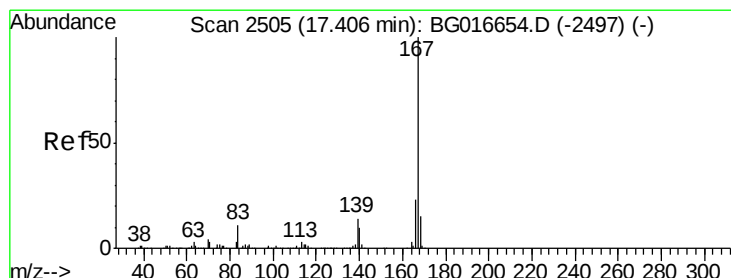
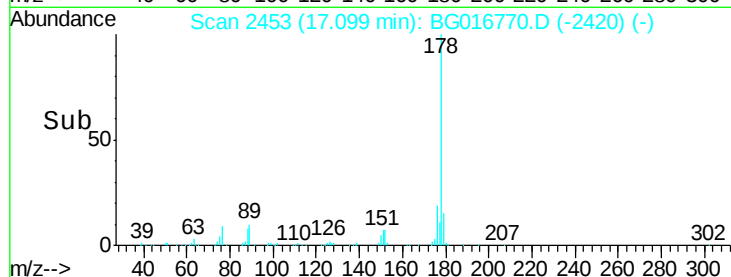
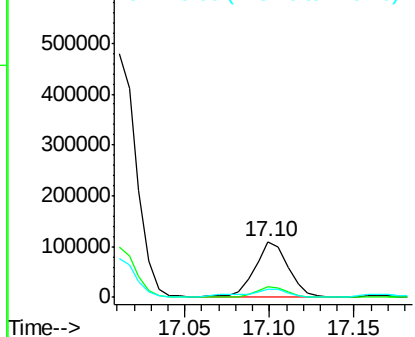
#71
 Anthracene
 Concen: 8.52 ng
 RT: 17.10 min Scan# 2453
 Delta R.T. -0.01 min
 Lab File: BG016770.D
 Acq: 28 Apr 2015 18:26

Instrument :
 BNA_G
 ClientSampleId :
 SB-63SDL

Tot Ion:178 Resp: 149055
 Ion Ratio Lower Upper
 178 100
 176 18.7 16.0 24.0
 179 15.0 12.9 19.3

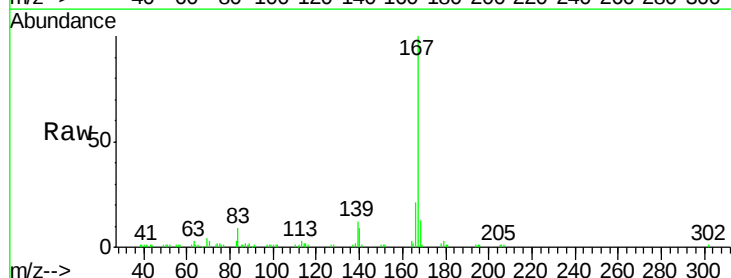


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

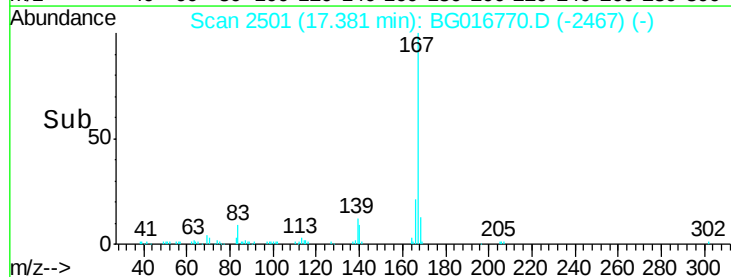
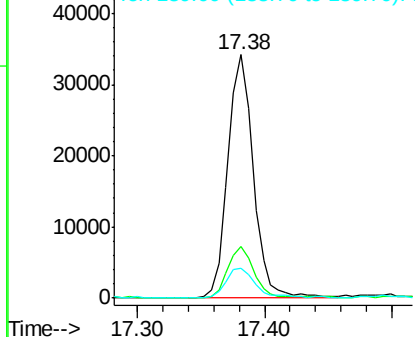


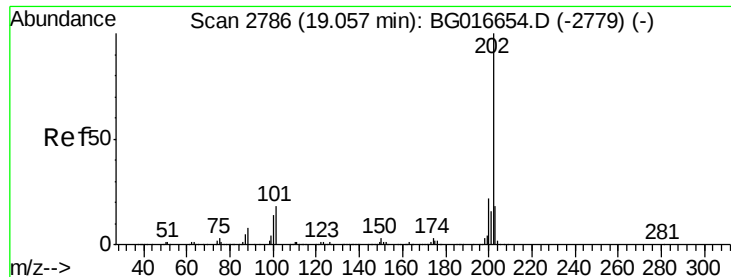
#72
 Carbazole
 Concen: 2.73 ng
 RT: 17.38 min Scan# 2501
 Delta R.T. -0.00 min
 Lab File: BG016770.D
 Acq: 28 Apr 2015 18:26

Tgt Ion:167 Resp: 47843
 Ion Ratio Lower Upper
 167 100
 166 21.1 18.4 27.6
 139 12.2 11.1 16.7



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





#74

Fluoranthene

Concen: 51.55 ng

RT: 19.04 min Scan# 2783

Delta R.T. 0.00 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

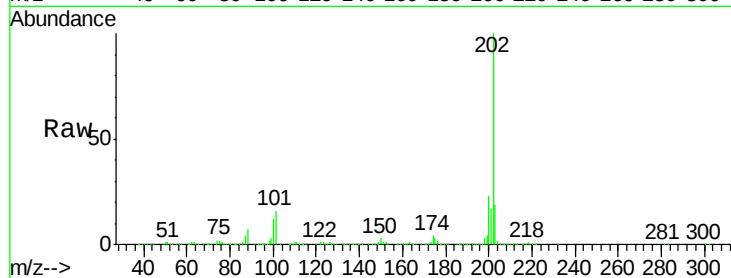
Instrument :

BNA_G

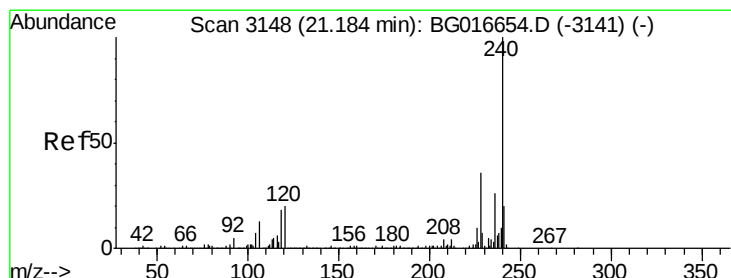
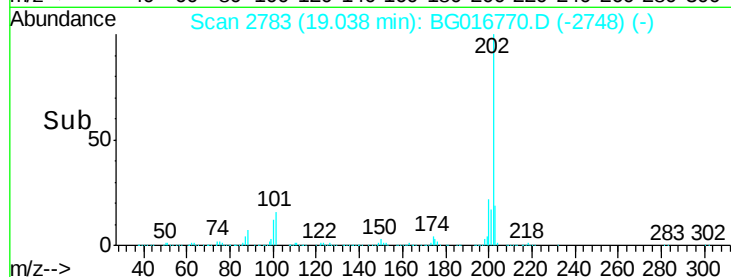
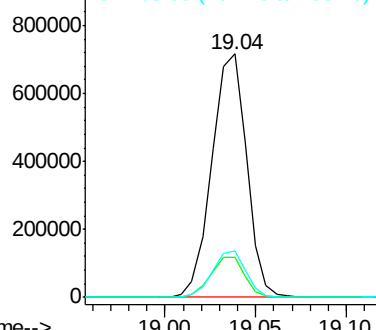
ClientSampleId :

SB-63SDL

Tot Ion:	202	Resp:	960697
Ion	Ratio	Lower	Upper
202	100		
101	16.3	0.0	38.1
203	19.1	0.0	38.4



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



#75

Chrysene-d12

Concen: 20.00 ng

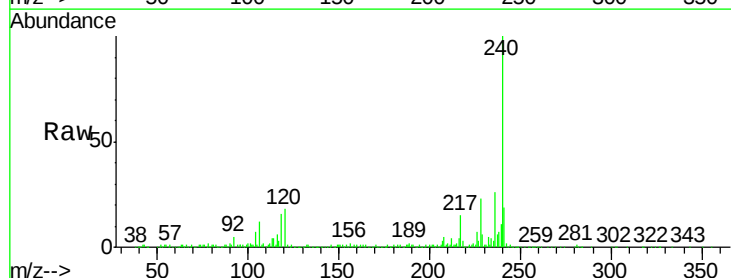
RT: 21.16 min Scan# 3144

Delta R.T. -0.00 min

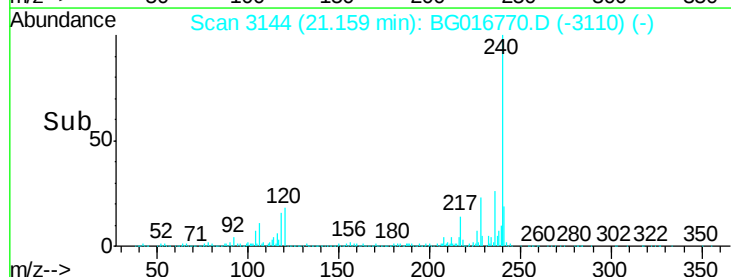
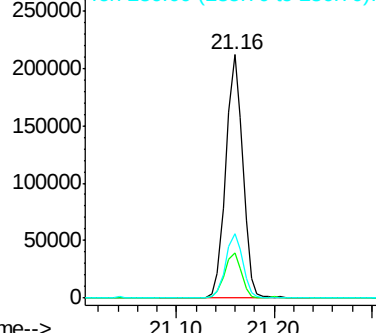
Lab File: BG016770.D

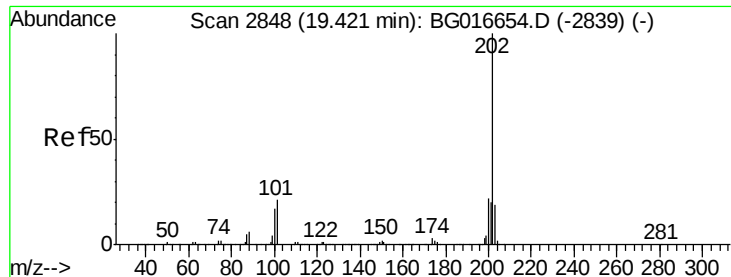
Acq: 28 Apr 2015 18:26

Tgt Ion:	240	Resp:	257747
Ion	Ratio	Lower	Upper
240	100		
120	18.5	16.3	24.5
236	26.3	21.1	31.7



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

Pvrene

Concen: 48.11 ng

RT: 19.40 min Scan# 2844

Delta R.T. -0.00 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

Instrument :

BNA_G

ClientSampleId :

SB-63SDL

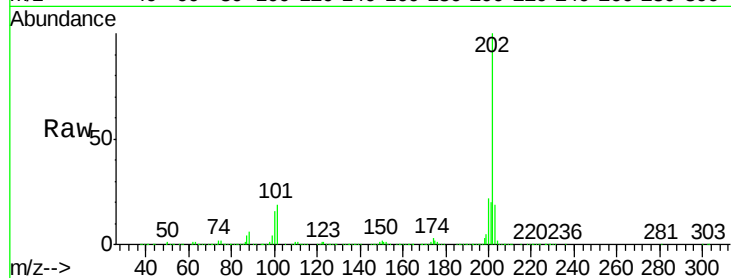
Tot Ion:202 Resp: 871123

Ion Ratio Lower Upper

202 100

200 22.4 18.0 27.0

203 19.1 14.9 22.3



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

800000

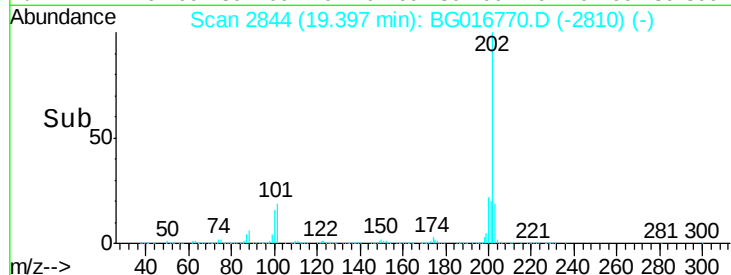
600000

400000

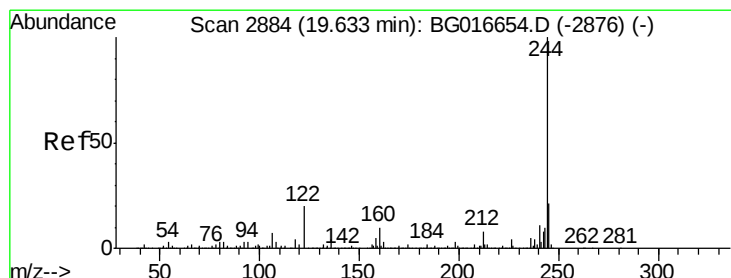
200000

0

19.30 19.35 19.40 19.45



Time-->



#78

Terphenyl-d14

Concen: 2.75 ng

RT: 19.60 min Scan# 2879

Delta R.T. -0.01 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

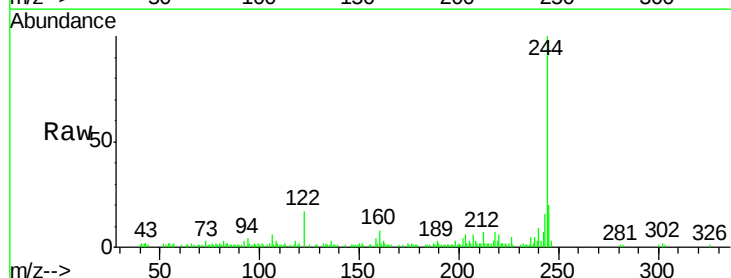
Tgt Ion:244 Resp: 30759

Ion Ratio Lower Upper

244 100

212 7.1 6.4 9.6

122 17.1 15.9 23.9



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

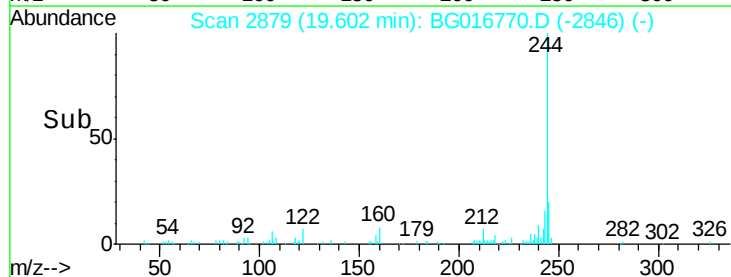
30000

20000

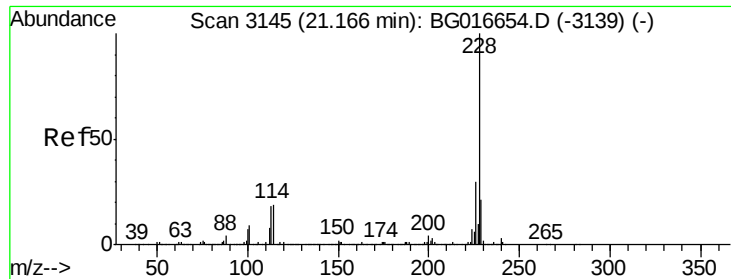
10000

0

19.55 19.60 19.65



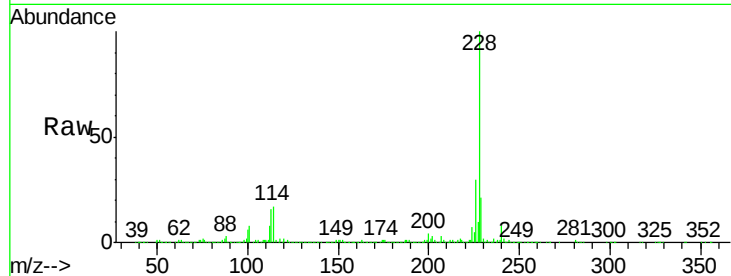
Time-->



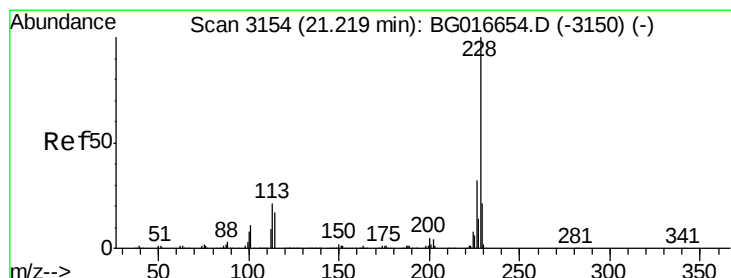
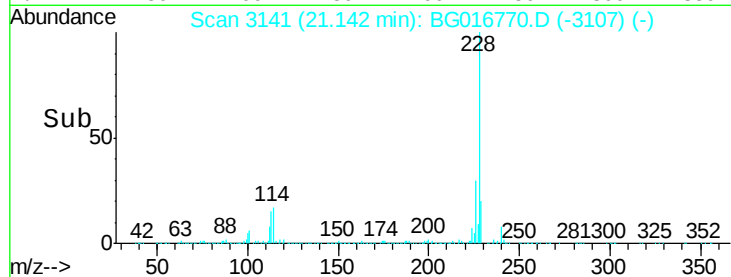
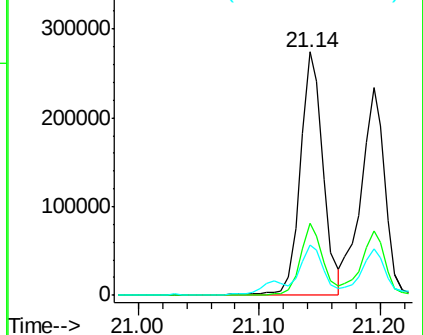
#80
Benzo(a)anthracene
Concen: 23.01 ng
RT: 21.14 min Scan# 3141
Delta R.T. -0.00 min
Lab File: BG016770.D
Acq: 28 Apr 2015 18:26

Instrument :
BNA_G
ClientSampleId :
SB-63SDL

Tot Ion:228 Resp: 359665
Ion Ratio Lower Upper
228 100
226 29.8 23.8 35.6
229 20.7 17.0 25.4

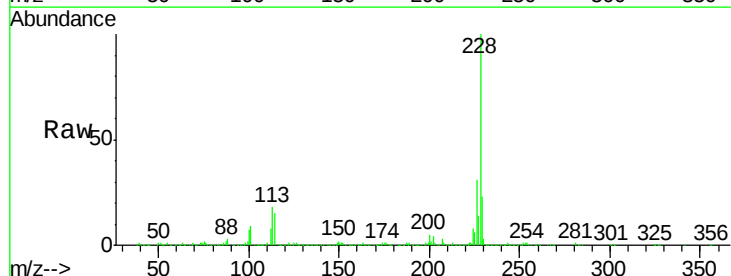


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

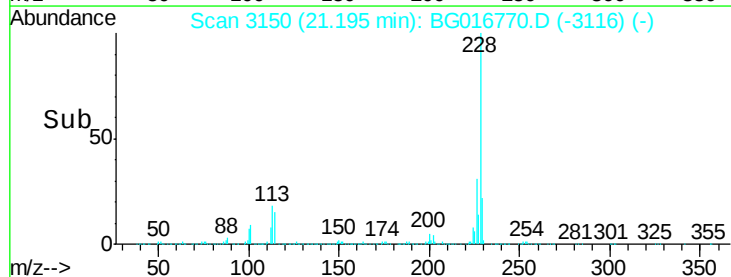
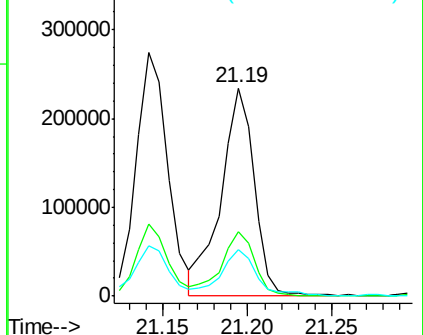


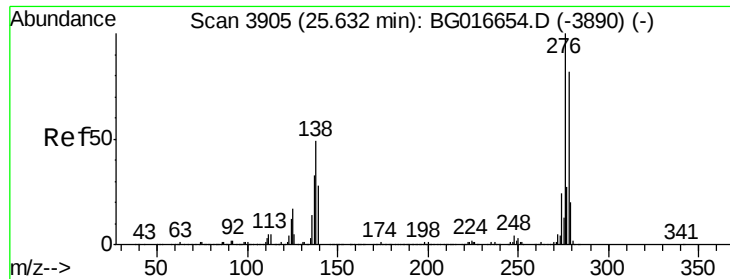
#82
Chrysene
Concen: 21.26 ng
RT: 21.19 min Scan# 3150
Delta R.T. -0.00 min
Lab File: BG016770.D
Acq: 28 Apr 2015 18:26

Tgt Ion:228 Resp: 318560
Ion Ratio Lower Upper
228 100
226 30.9 25.4 38.0
229 22.5 16.5 24.7



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

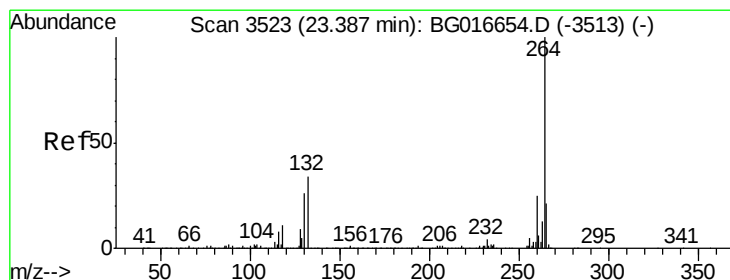
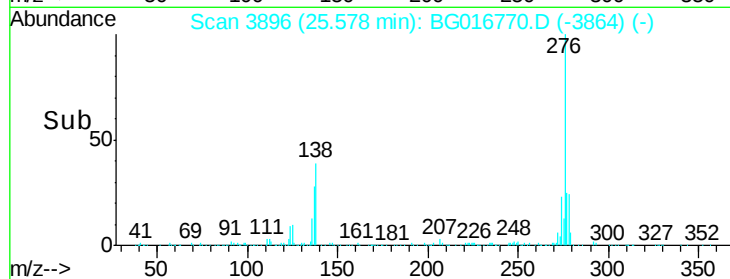
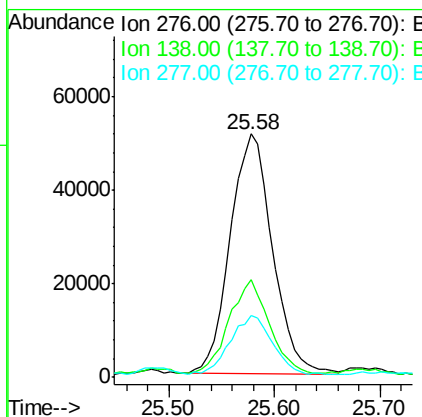
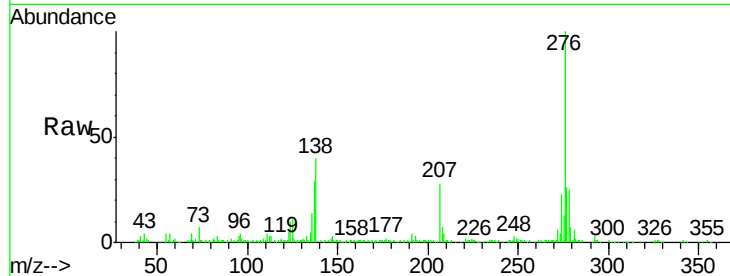




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.77 ng
 RT: 25.58 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: BG016770.D
 Acq: 28 Apr 2015 18:26

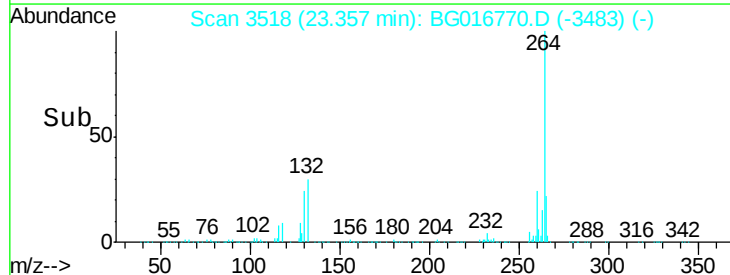
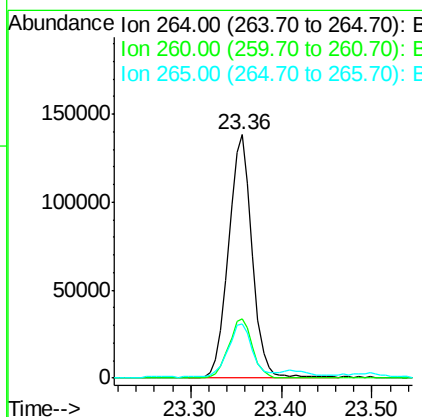
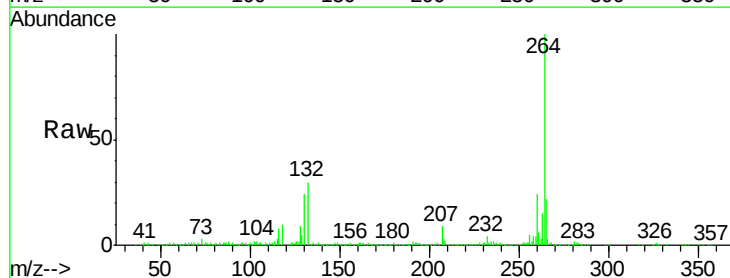
Instrument :
 BNA_G
 ClientSampleId :
 SB-63SDL

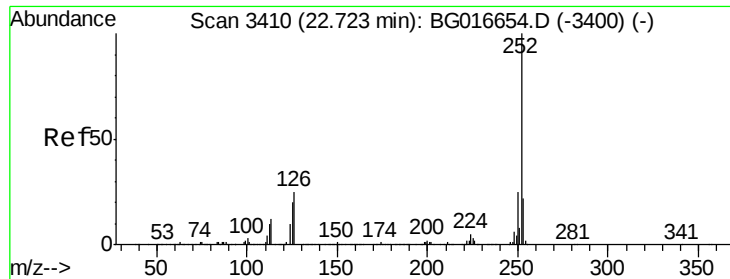
Tot Ion	Ratio	Lower	Upper
276	100		
138	37.3	38.2	57.2#
277	24.6	21.4	32.2



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 23.36 min Scan# 3518
 Delta R.T. 0.00 min
 Lab File: BG016770.D
 Acq: 28 Apr 2015 18:26

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	20.0	30.0
265	22.3	16.8	25.2

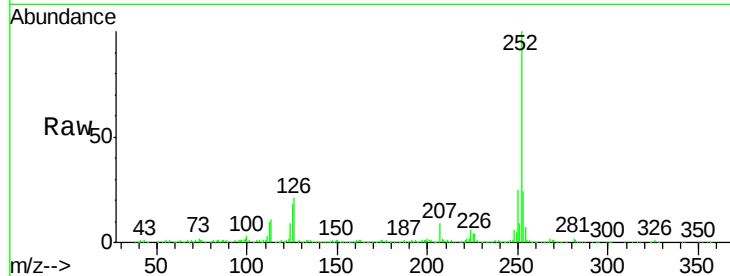




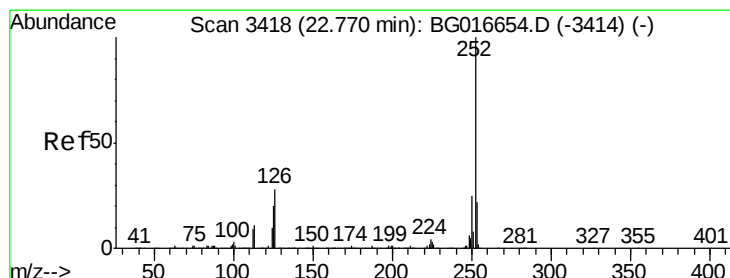
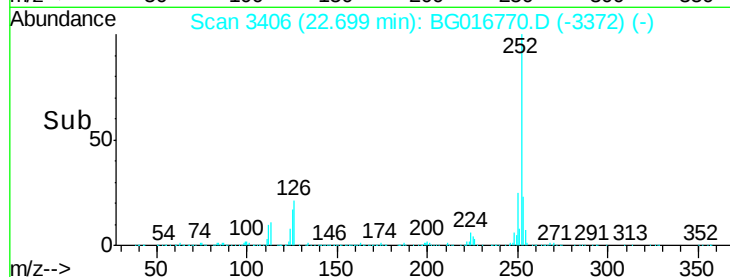
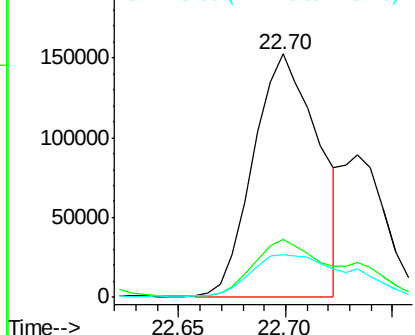
#87
Benzo(b)fluoranthene
Concen: 21.49 ng m
RT: 22.70 min Scan# 3406
Delta R.T. -0.00 min
Lab File: BG016770.D
Acq: 28 Apr 2015 18:26

Instrument :
BNA_G
ClientSampleId :
SB-63SDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.9	26.9
125	17.8	15.8	23.8

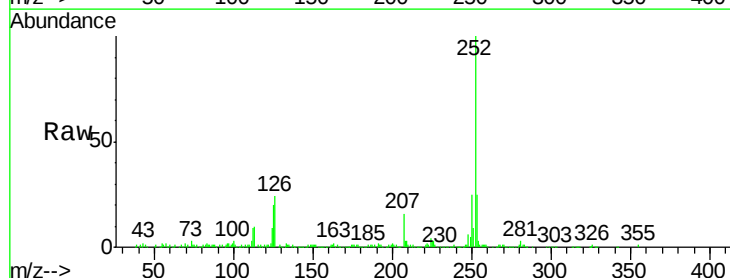


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

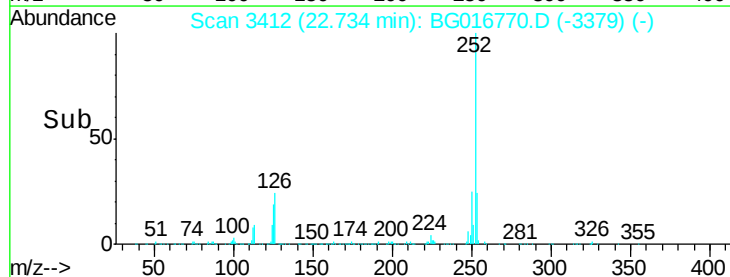
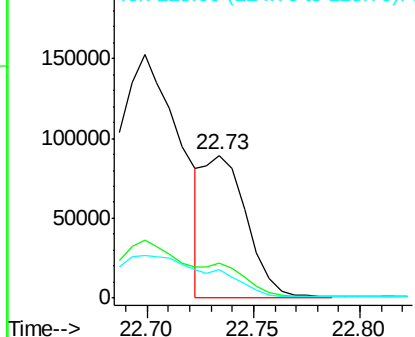


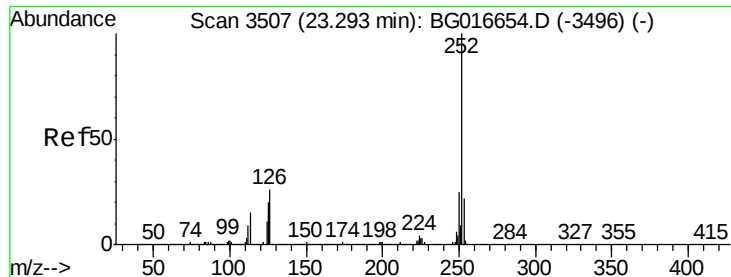
#88
Benzo(k)fluoranthene
Concen: 8.65 ng m
RT: 22.73 min Scan# 3412
Delta R.T. -0.01 min
Lab File: BG016770.D
Acq: 28 Apr 2015 18:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.6	26.4
125	19.7	15.5	23.3



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

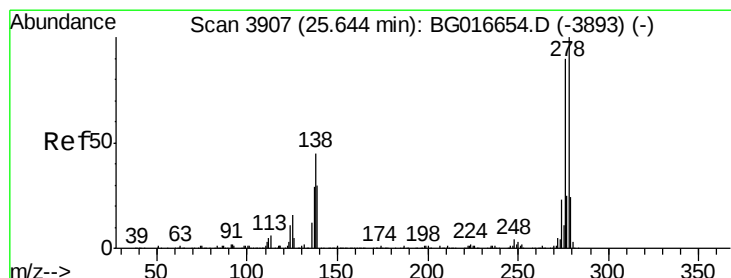
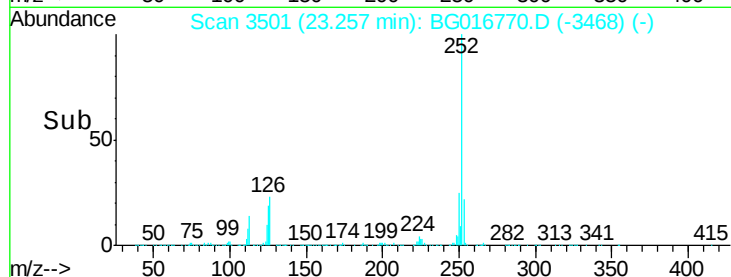
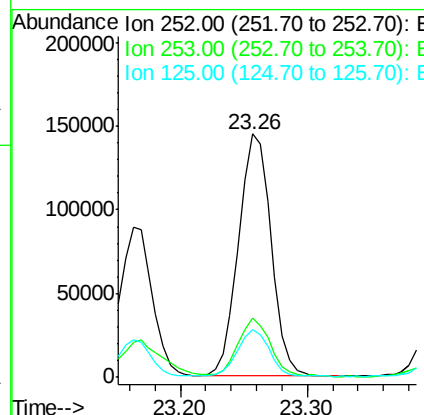
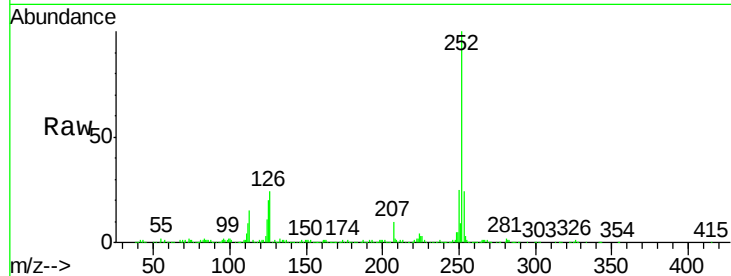




#89
Benzo(a)pyrene
Concen: 18.16 ng
RT: 23.26 min Scan# 3501
Delta R.T. -0.01 min
Lab File: BG016770.D
Acq: 28 Apr 2015 18:26

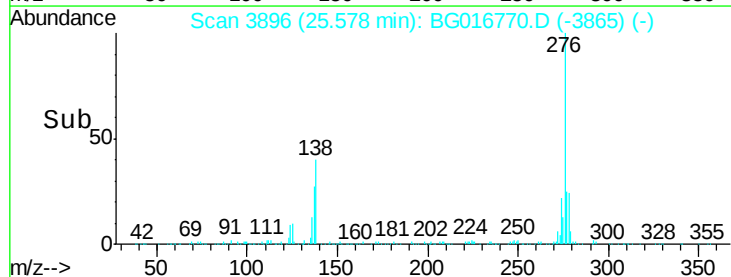
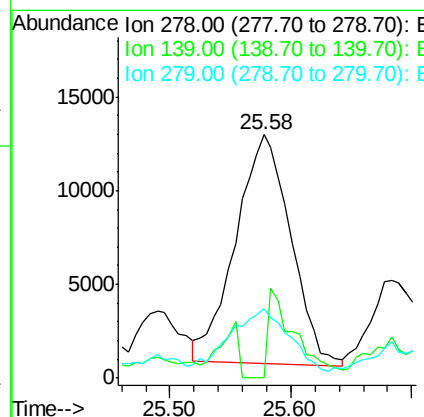
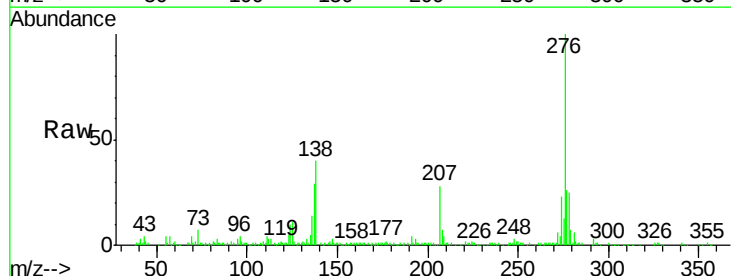
Instrument :
BNA_G
ClientSampleId :
SB-63SDL

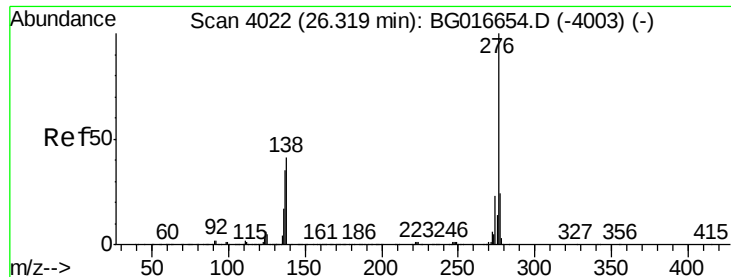
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.2	25.8
125	19.7	16.3	24.5



#90
Dibenzo(a,h)anthracene
Concen: 2.79 ng
RT: 25.58 min Scan# 3896
Delta R.T. -0.02 min
Lab File: BG016770.D
Acq: 28 Apr 2015 18:26

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	24.2	36.2#
279	28.4	18.9	28.3#





#91

Benzo(a,h,i)perylene

Concen: 9.67 ng

RT: 26.27 min Scan# 4013

Delta R.T. -0.01 min

Lab File: BG016770.D

Acq: 28 Apr 2015 18:26

Instrument :

BNA_G

ClientSampleId :

SB-63SDL

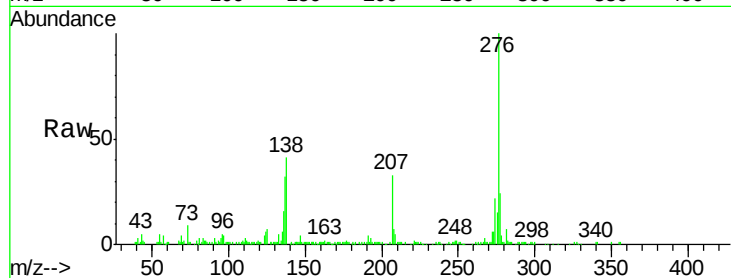
Tot Ion: 276 Resp: 135871

Ion Ratio Lower Upper

276 100

277 24.0 19.3 28.9

138 41.3 32.8 49.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

