

Data Path : Z:\HPCHEM1\BNA_G\Data\BG052815\
 Data File : BG017352.D
 Acq On : 29 May 2015 9:21
 Operator : TP/IZ
 Sample : G2294-05
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 HY-SB403B(5-5.5)

Quant Time: May 29 17:29:51 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG051315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 28 04:22:03 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	28998	20.00	ng	-0.05
21) Naphthalene-d8	10.44	136	116371	20.00	ng	-0.06
38) Acenaphthene-d10	14.31	164	75618	20.00	ng	-0.05
63) Phenanthrene-d10	17.06	188	165058	20.00	ng	-0.05
75) Chrysene-d12	21.25	240	202279	20.00	ng	-0.05
86) Perylene-d12	23.49	264	205179	20.00	ng	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.25	112	142352	87.10	ng	-0.05
7) Phenol-d6	6.85	99	195249	85.13	ng	-0.05
23) Nitrobenzene-d5	8.82	82	138308	55.49	ng	-0.05
41) 2,4,6-Tribromophenol	15.81	330	70458	77.08	ng	-0.05
44) 2-Fluorobiphenyl	12.93	172	238401	46.26	ng	-0.05
78) Terphenyl-d14	19.69	244	327609	33.75	ng	-0.05

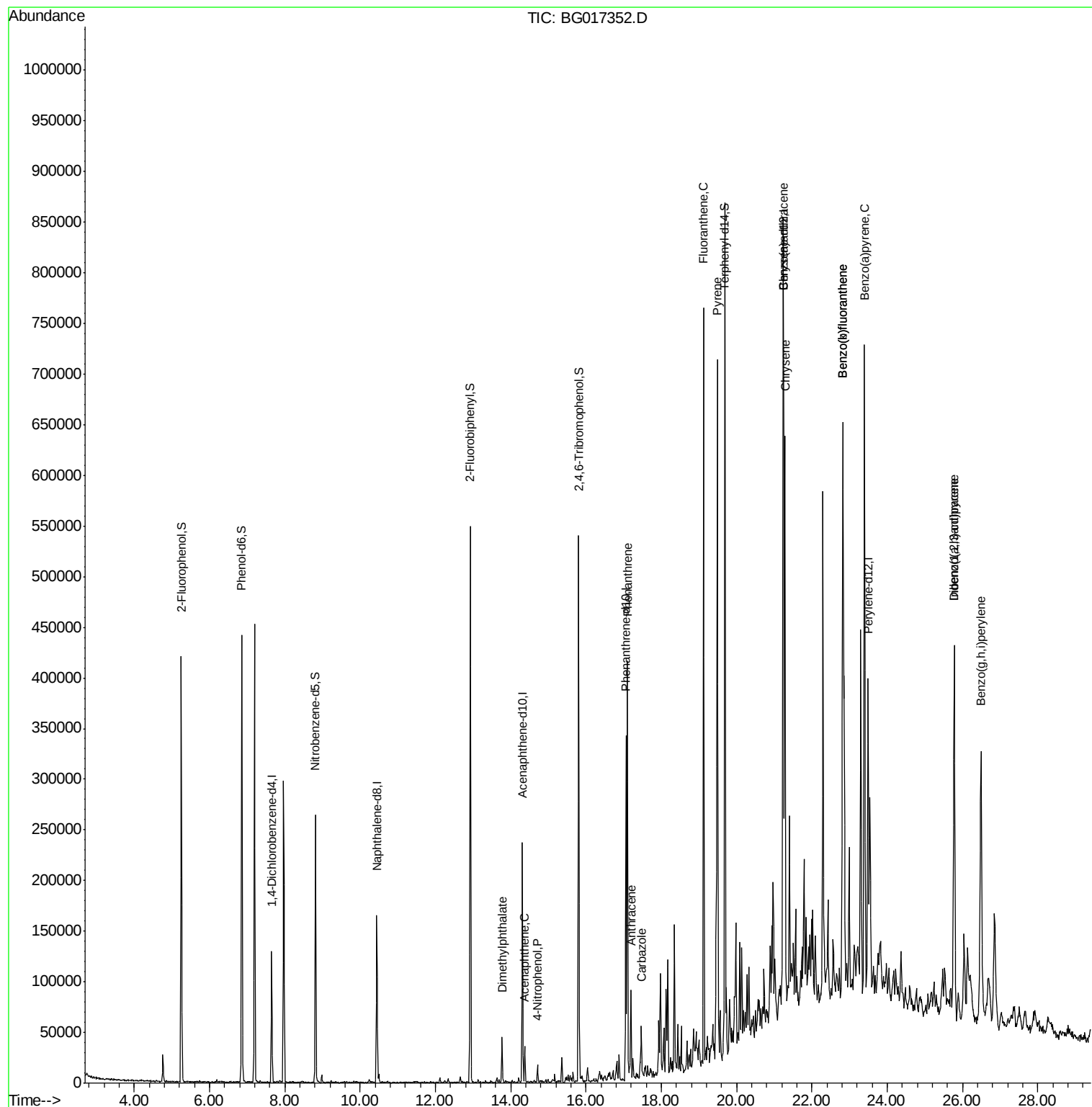
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
49) Dimethylphthalate	13.77	163	25496	4.31	ng	96
51) Acenaphthene	14.38	154	10972	2.51	ng	93
55) 4-Nitrophenol	14.71	139	3490	2.98	ng	# 1
70) Phenanthrene	17.10	178	207821	24.42	ng	98
71) Anthracene	17.20	178	50025	5.80	ng	99
72) Carbazole	17.47	167	25915	3.27	ng	97
74) Fluoranthene	19.12	202	402581	39.39	ng	97
77) Pyrene	19.49	202	409072	32.96	ng	99
80) Benzo(a)anthracene	21.24	228	299519	25.84	ng	100
82) Chrysene	21.28	228	277686	25.72	ng	97
85) Indeno(1,2,3-cd)pyrene	25.79	276	311560	24.11	ng	98
87) Benzo(b)fluoranthene	22.82	252	456770	38.19	ng	# 96
88) Benzo(k)fluoranthene	22.82	252	456770	40.22	ng	97
89) Benzo(a)pyrene	23.40	252	422533	38.47	ng	98
90) Dibenzo(a,h)anthracene	25.79	278	76331	6.77	ng	# 85
91) Benzo(g,h,i)perylene	26.50	276	304872	28.73	ng	# 96

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.65 min Scan# 845

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

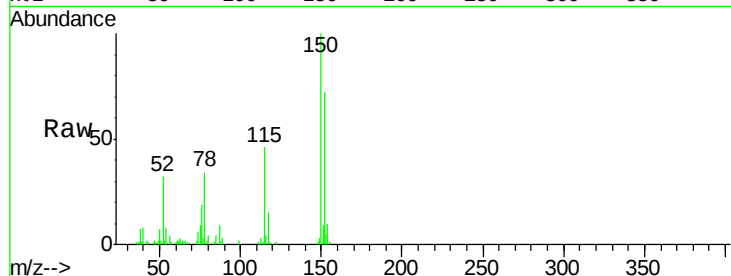
Tgt Ion:152 Resp: 28998

Ion Ratio Lower Upper

152 100

150 138.0 120.8 181.2

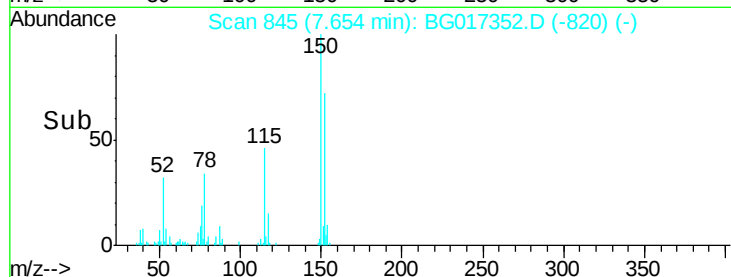
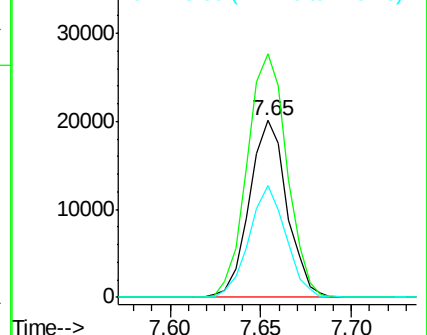
115 63.2 49.4 74.2



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: 87.10 ng

RT: 5.25 min Scan# 436

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

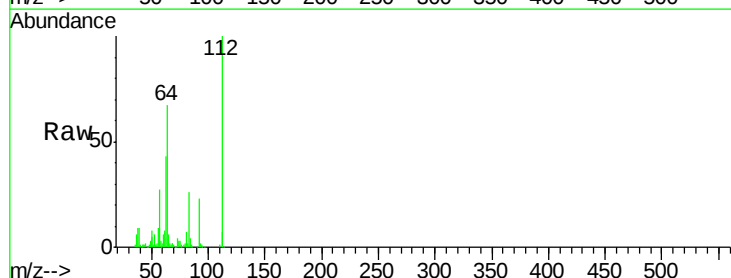
Tgt Ion:112 Resp: 142352

Ion Ratio Lower Upper

112 100

64 67.2 48.1 72.1

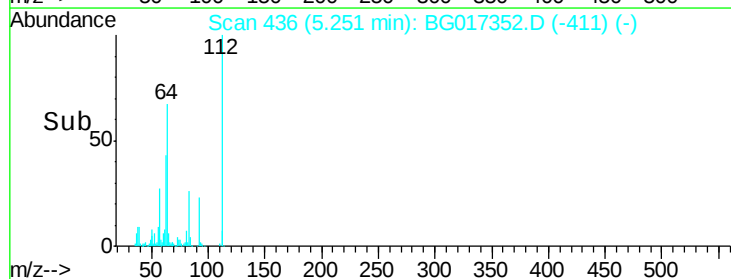
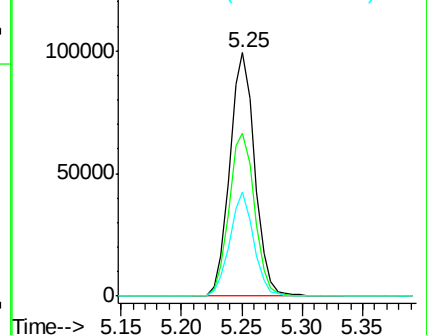
63 42.7 29.8 44.8

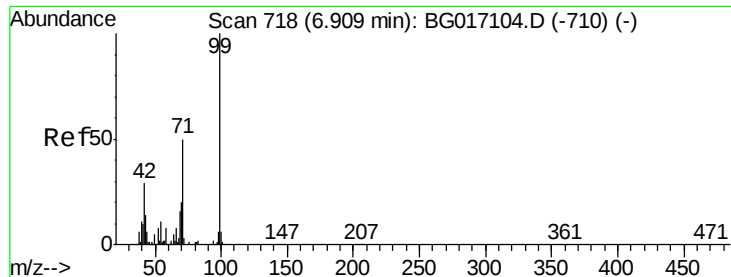


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 85.13 ng

RT: 6.85 min Scan# 709

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

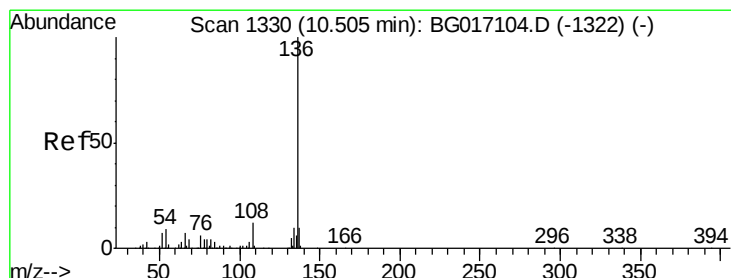
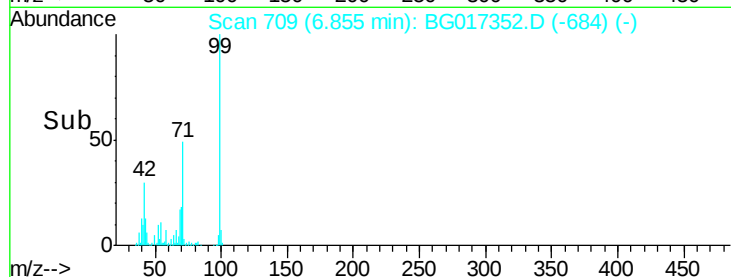
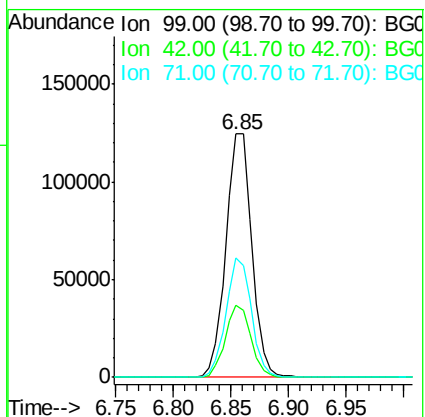
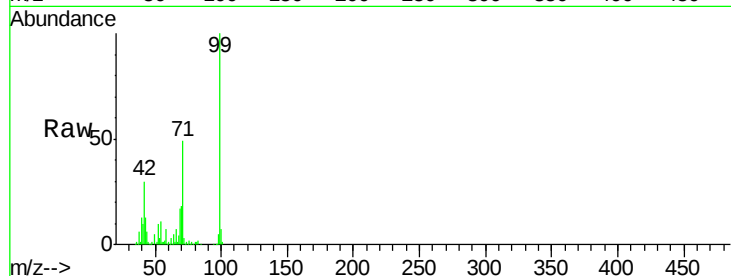
Tgt Ion: 99 Resp: 195249

Ion Ratio Lower Upper

99 100

42 29.8 23.5 35.3

71 49.3 39.8 59.8



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.44 min Scan# 1320

Delta R.T. -0.06 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Tgt Ion: 136 Resp: 116371

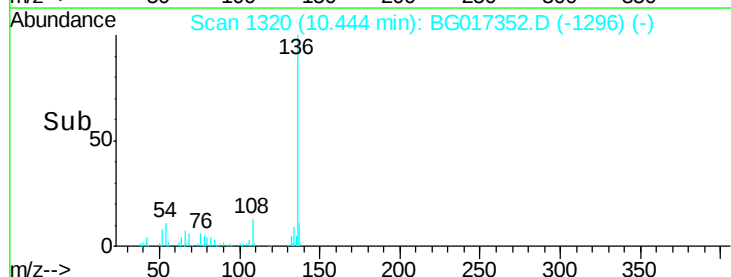
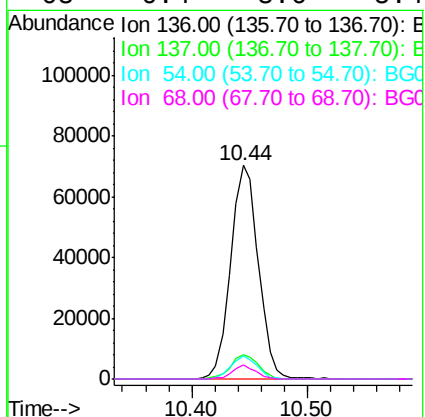
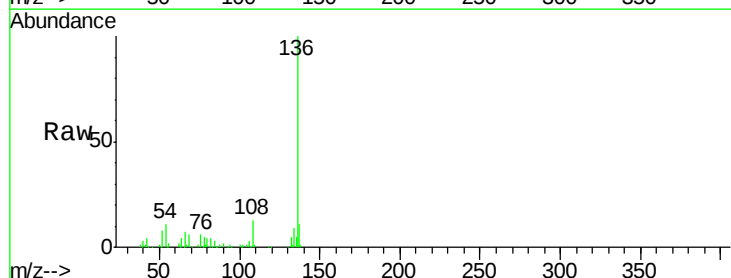
Ion Ratio Lower Upper

136 100

137 11.3 8.3 12.5

54 11.0 7.4 11.2

68 6.4 3.6 5.4#

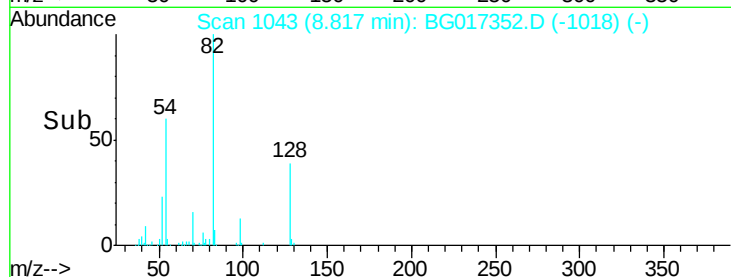
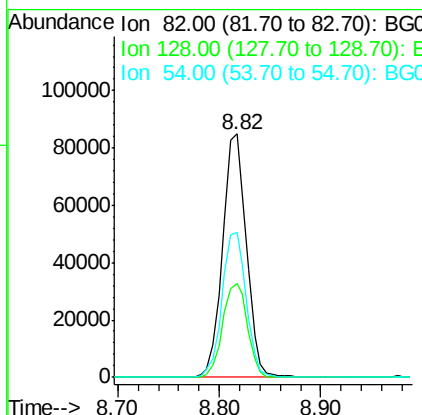
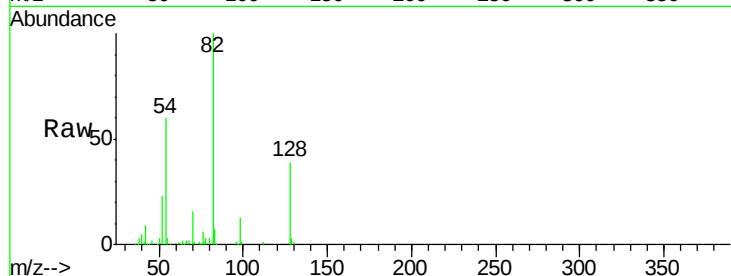




#23
 Nitrobenzene-d5
 Concen: 55.49 ng
 RT: 8.82 min Scan# 1043
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

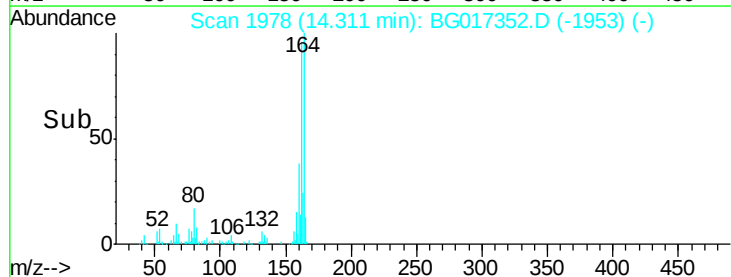
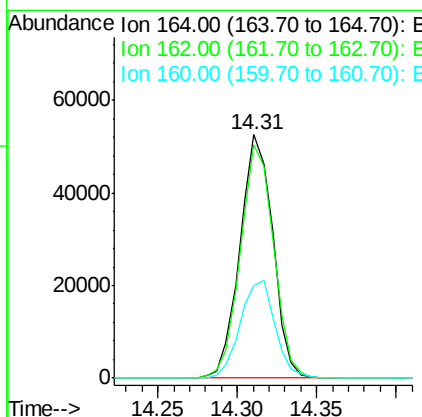
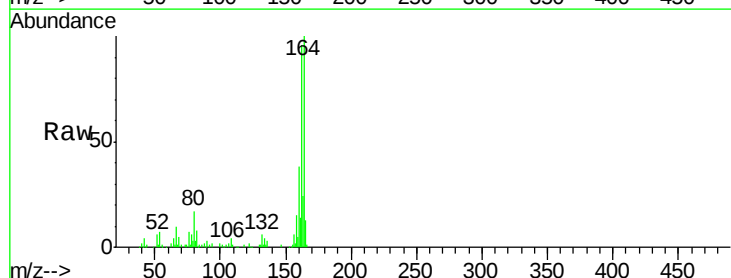
Instrument :
 BNA_G
 ClientSampleId :
 HY-SB403B(5-5.5)

Tgt Ion: 82 Resp: 138308
 Ion Ratio Lower Upper
 82 100
 128 38.5 32.6 49.0
 54 59.7 49.6 74.4



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.31 min Scan# 1978
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Tgt Ion: 164 Resp: 75618
 Ion Ratio Lower Upper
 164 100
 162 95.7 82.1 123.1
 160 38.1 34.8 52.2

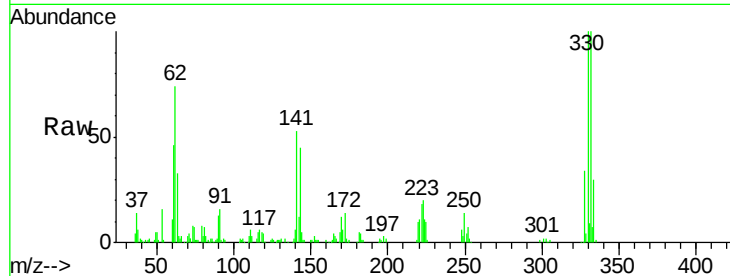




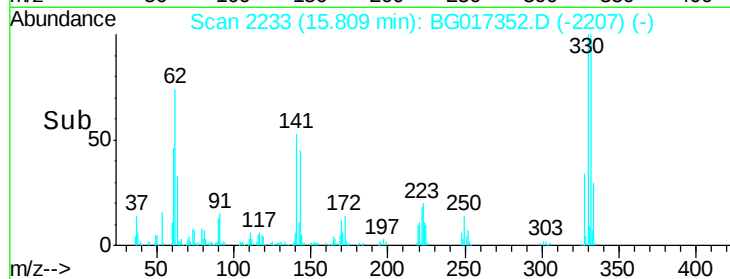
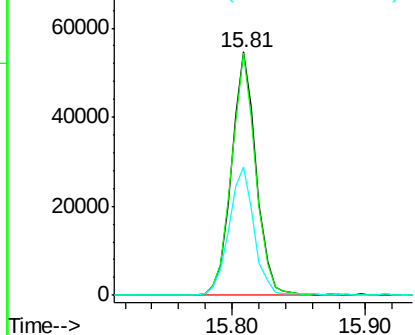
#41
 2,4,6-Tribromophenol
 Concen: 77.08 ng
 RT: 15.81 min Scan# 2233
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Instrument :
 BNA_G
 ClientSampleId :
 HY-SB403B(5-5.5)

Tgt Ion:330 Resp: 70458
 Ion Ratio Lower Upper
 330 100
 332 98.3 76.9 115.3
 141 53.7 42.2 63.2

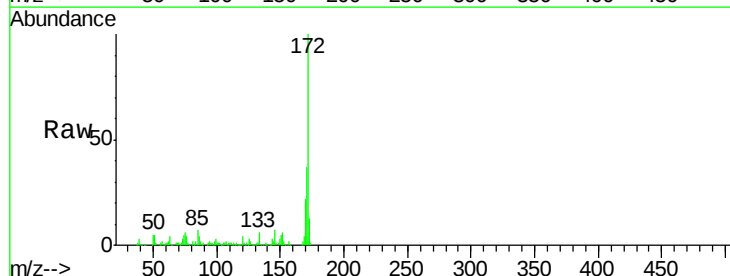


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

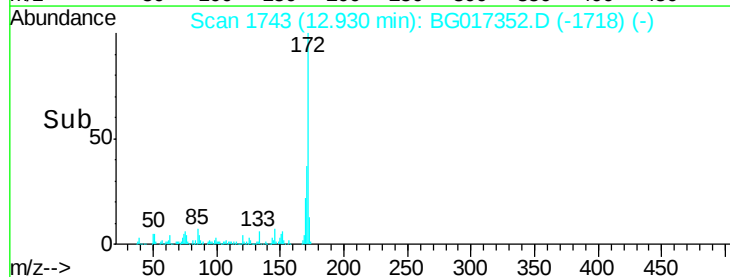
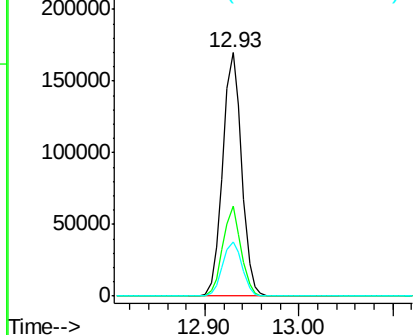


#44
 2-Fluorobiphenyl
 Concen: 46.26 ng
 RT: 12.93 min Scan# 1743
 Delta R.T. -0.05 min
 Lab File: BG017352.D
 Acq: 29 May 2015 9:21

Tgt Ion:172 Resp: 238401
 Ion Ratio Lower Upper
 172 100
 171 36.9 29.7 44.5
 170 22.1 18.4 27.6



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 4.31 ng

RT: 13.77 min Scan# 1886

Delta R.T. -0.06 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

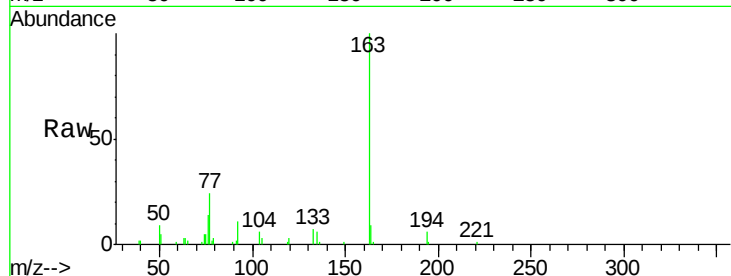
Tgt Ion:163 Resp: 25496

Ion Ratio Lower Upper

163 100

194 5.8 5.6 8.4

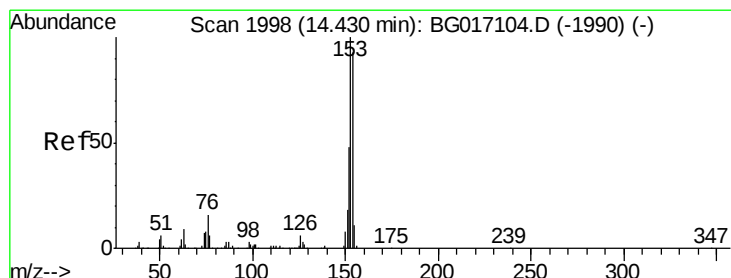
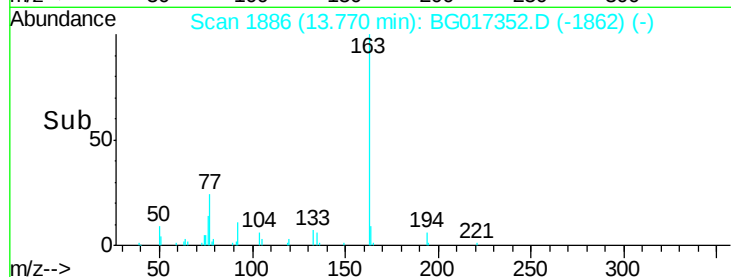
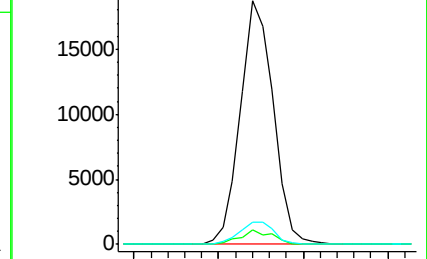
164 9.4 8.6 13.0



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: 2.51 ng

RT: 14.38 min Scan# 1989

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

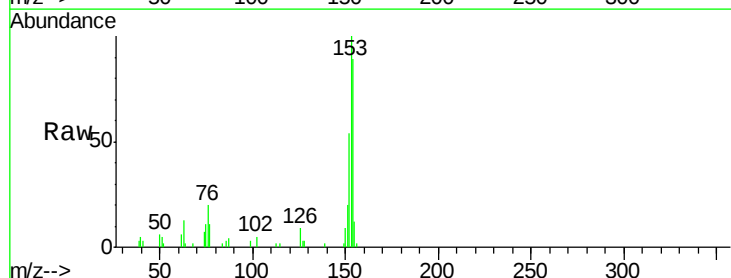
Tgt Ion:154 Resp: 10972

Ion Ratio Lower Upper

154 100

153 111.8 86.2 129.4

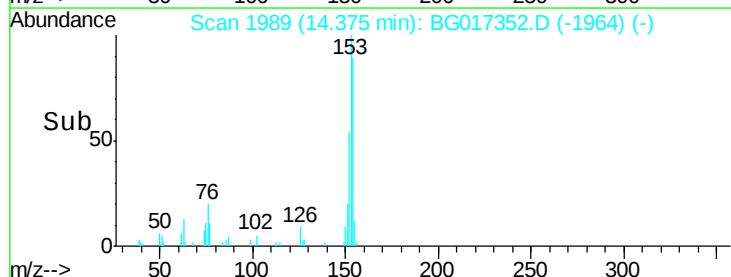
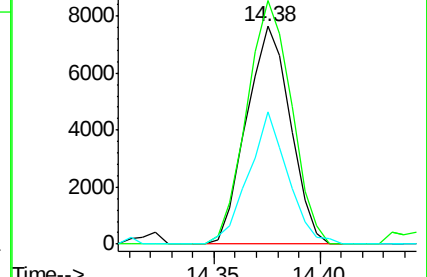
152 60.8 41.5 62.3

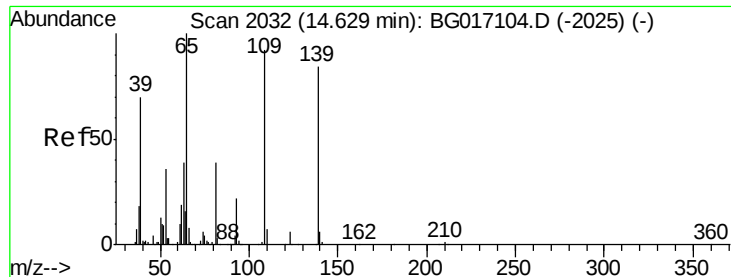


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

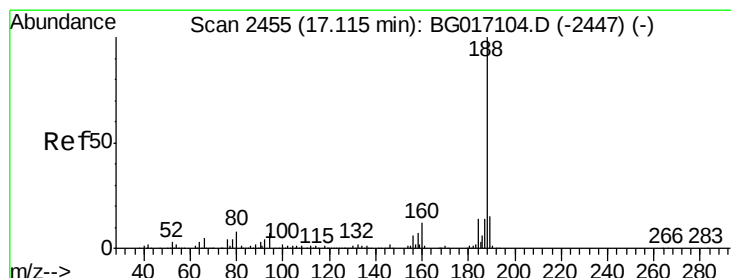
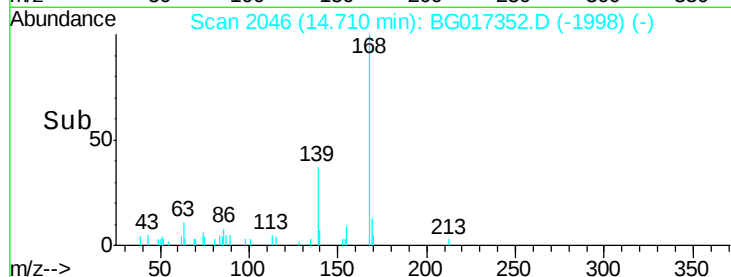
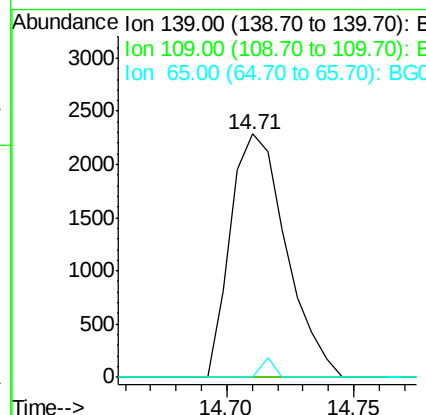
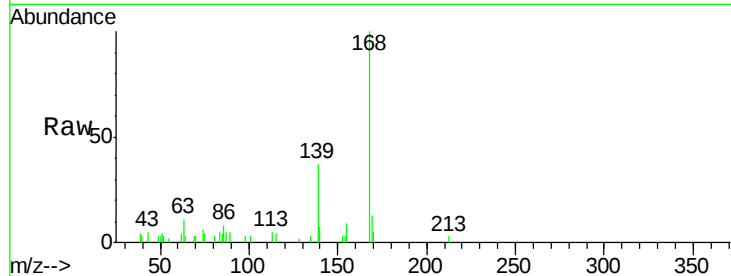




#55
4-Nitrophenol
Concen: 2.98 ng
RT: 14.71 min Scan# 2046
Delta R.T. 0.08 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

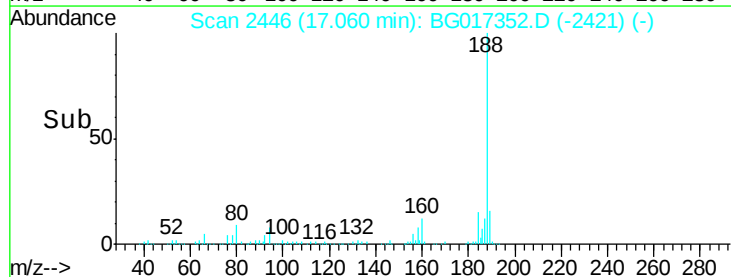
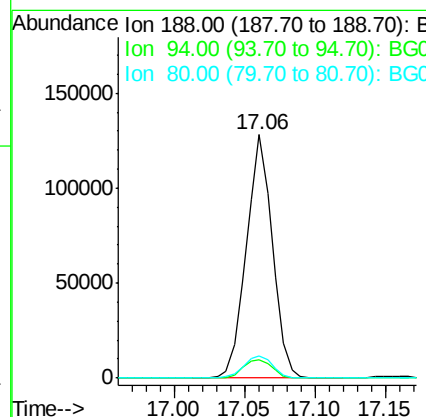
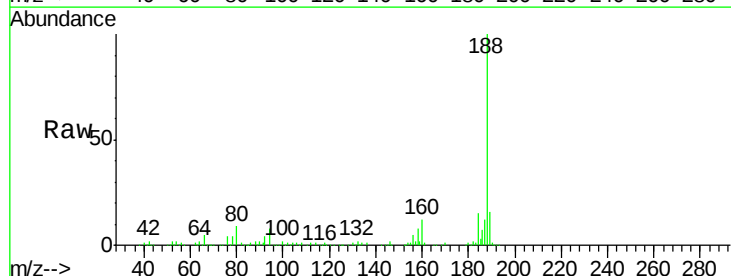
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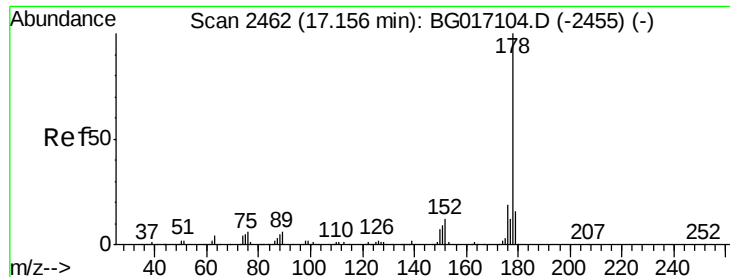
Tgt Ion:139 Resp: 3490
Ion Ratio Lower Upper
139 100
109 0.0 90.5 130.5#
65 0.0 99.9 139.9#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.06 min Scan# 2446
Delta R.T. -0.05 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Tgt Ion:188 Resp: 165058
Ion Ratio Lower Upper
188 100
94 7.7 5.8 8.6
80 9.2 6.5 9.7





#70

Phenanthrene

Concen: 24.42 ng

RT: 17.10 min Scan# 2453

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

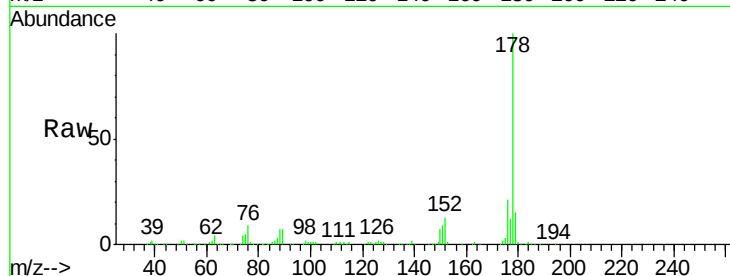
Tgt Ion:178 Resp: 207821

Ion Ratio Lower Upper

178 100

176 21.0 15.4 23.2

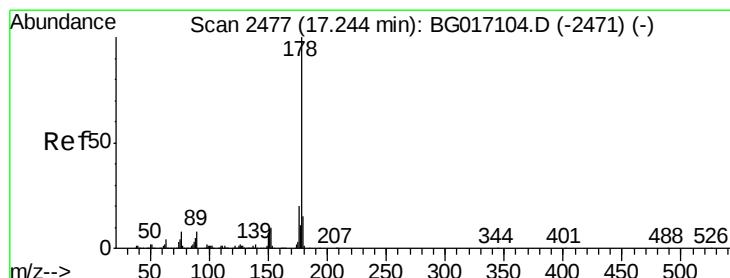
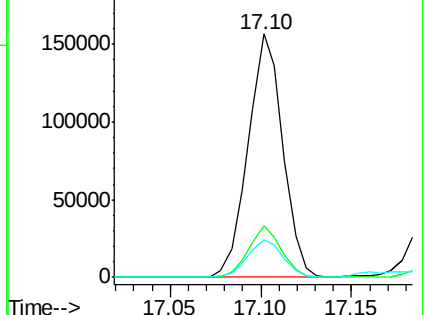
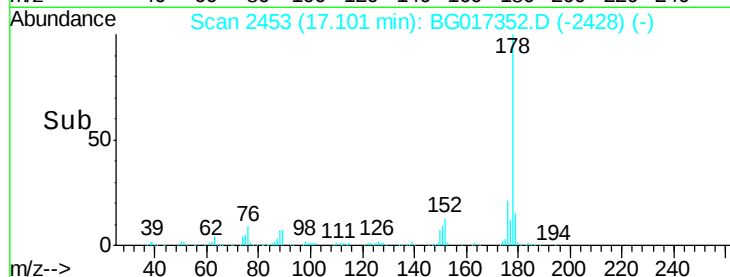
179 15.4 12.5 18.7



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: 5.80 ng

RT: 17.20 min Scan# 2469

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

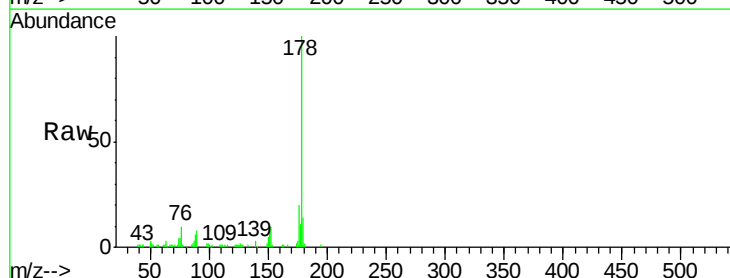
Tgt Ion:178 Resp: 50025

Ion Ratio Lower Upper

178 100

176 20.1 16.3 24.5

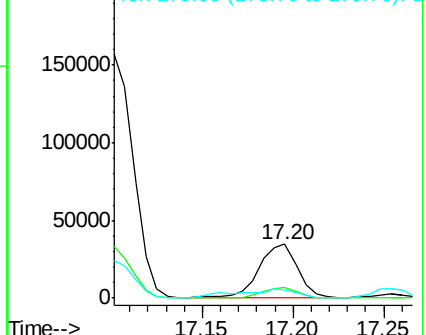
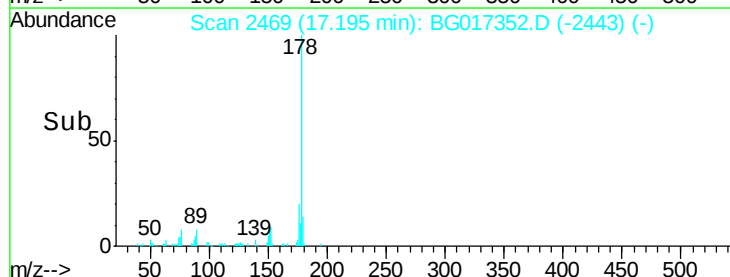
179 14.0 12.1 18.1

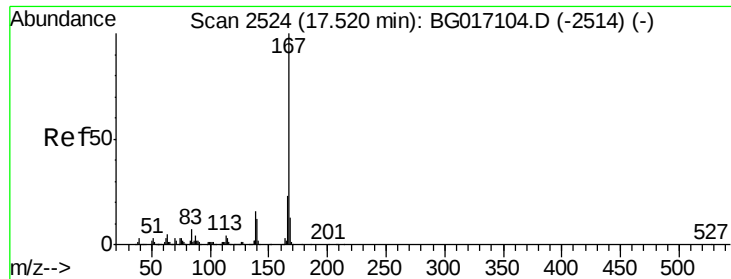


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.27 ng

RT: 17.47 min Scan# 2516

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

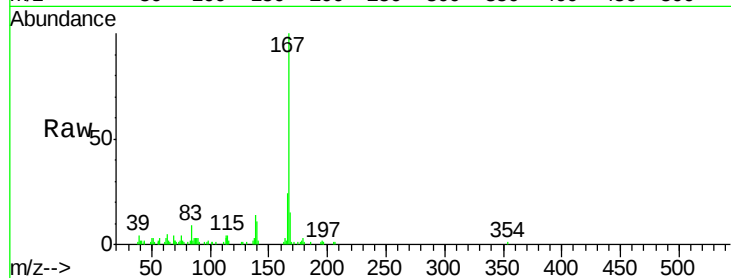
Tgt Ion:167 Resp: 25915

Ion Ratio Lower Upper

167 100

166 23.6 18.4 27.6

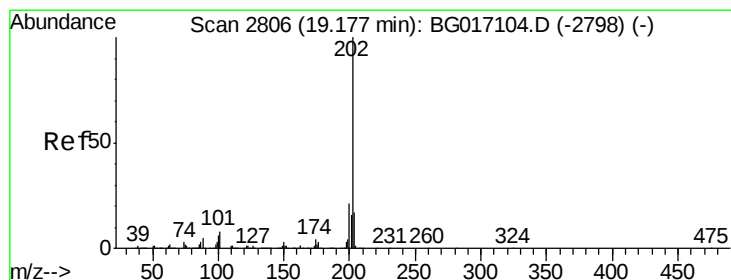
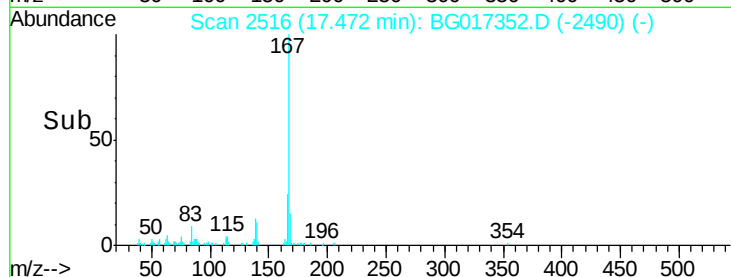
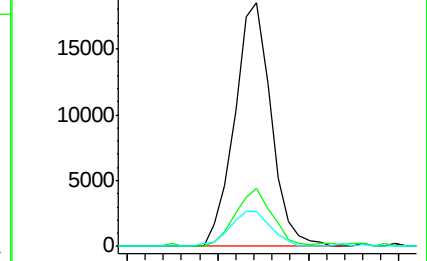
139 14.2 13.0 19.4



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: 39.39 ng

RT: 19.12 min Scan# 2797

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

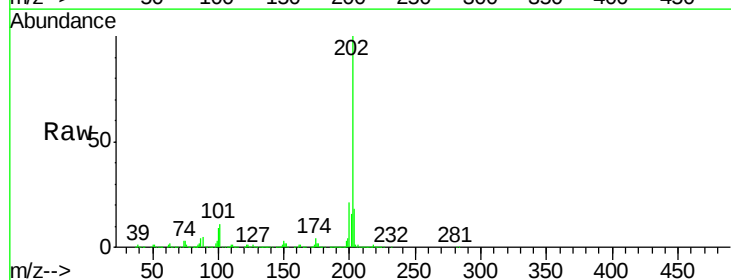
Tgt Ion:202 Resp: 402581

Ion Ratio Lower Upper

202 100

101 11.3 0.0 28.3

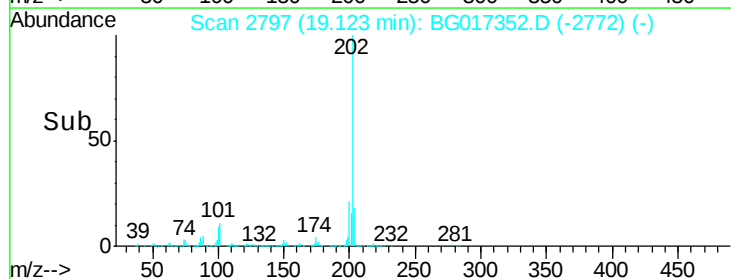
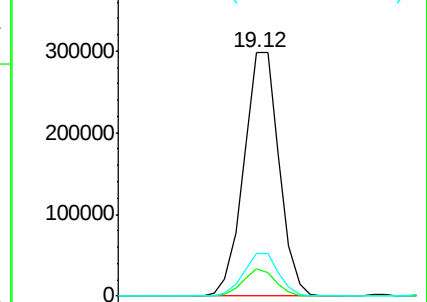
203 17.7 0.0 37.4

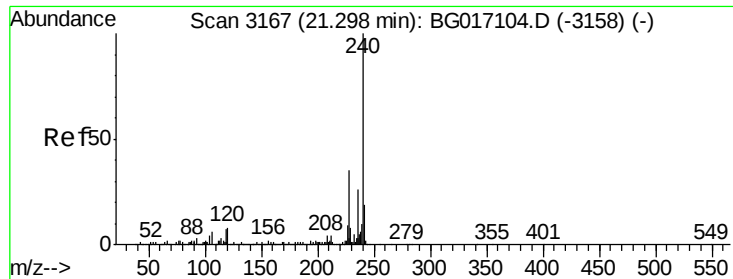


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.25 min Scan# 3159

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

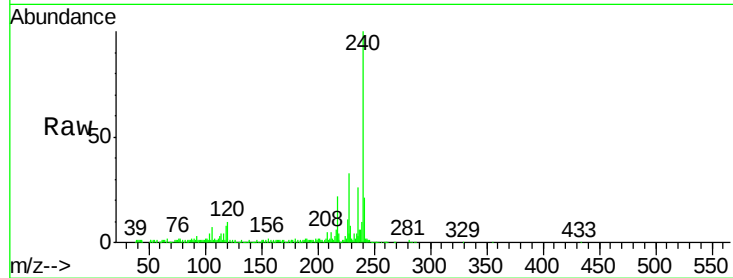
Tgt Ion:240 Resp: 202279

Ion Ratio Lower Upper

240 100

120 9.6 6.0 9.0#

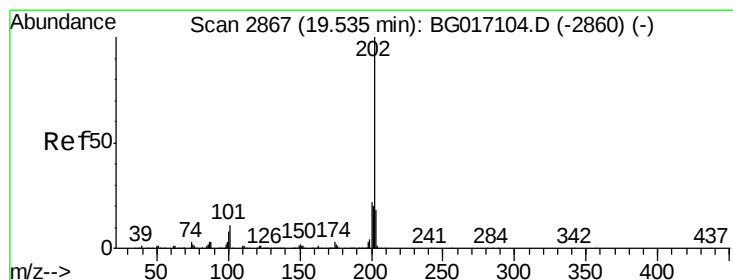
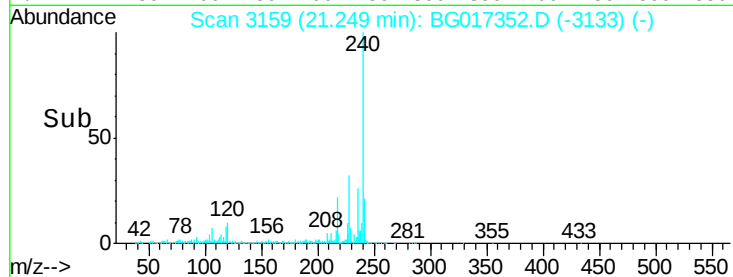
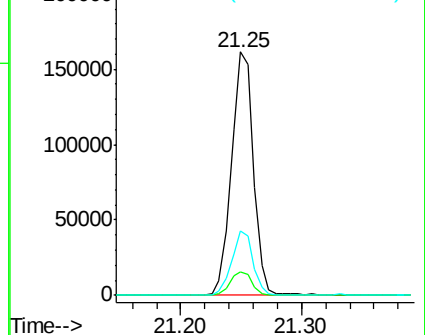
236 26.3 20.5 30.7



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

Pyrene

Concen: 32.96 ng

RT: 19.49 min Scan# 2859

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

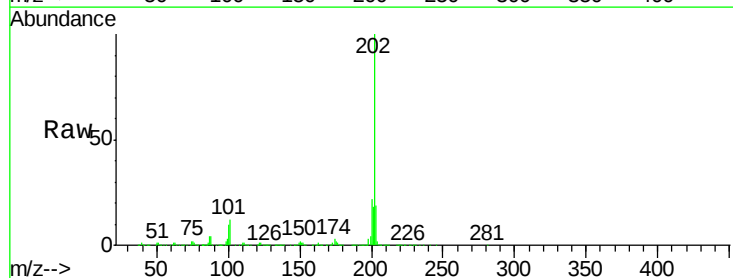
Tgt Ion:202 Resp: 409072

Ion Ratio Lower Upper

202 100

200 22.3 17.8 26.8

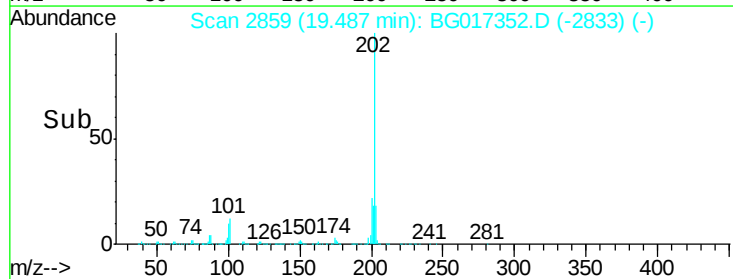
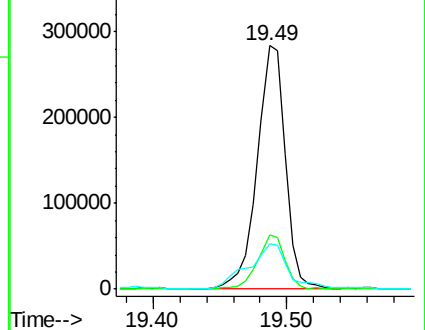
203 18.6 14.4 21.6

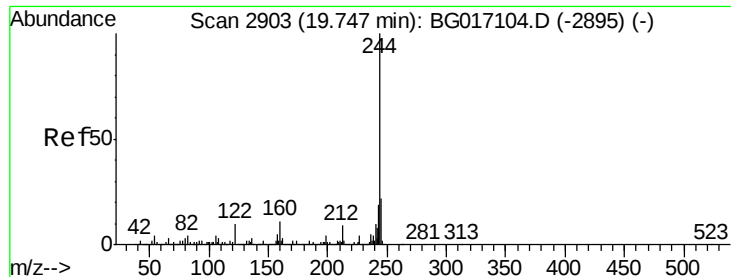


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 33.75 ng

RT: 19.69 min Scan# 2894

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

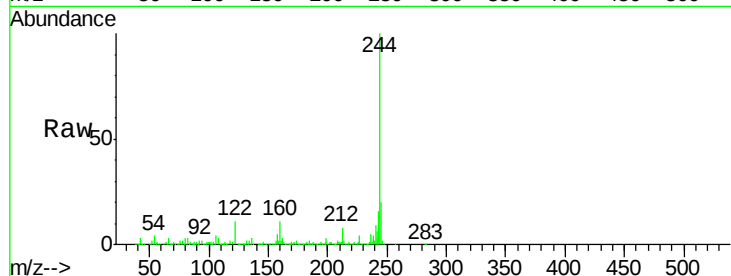
Tgt Ion:244 Resp: 327609

Ion Ratio Lower Upper

244 100

212 8.0 7.0 10.4

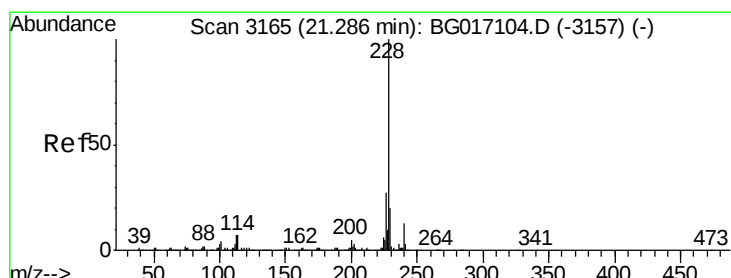
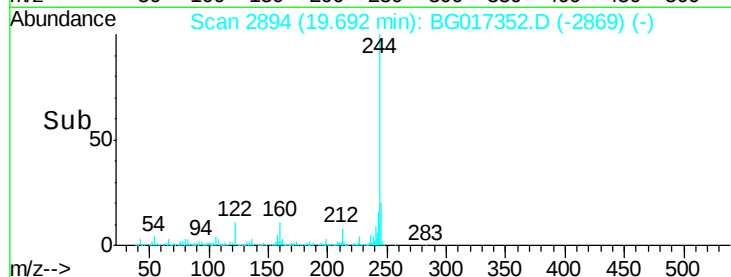
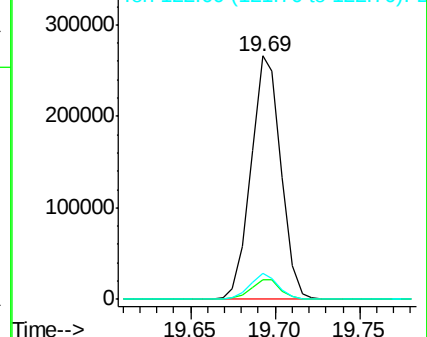
122 10.5 8.4 12.6



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: 25.84 ng

RT: 21.24 min Scan# 3157

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

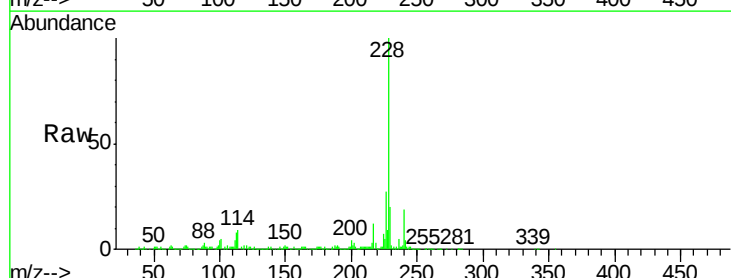
Tgt Ion:228 Resp: 299519

Ion Ratio Lower Upper

228 100

226 27.3 21.7 32.5

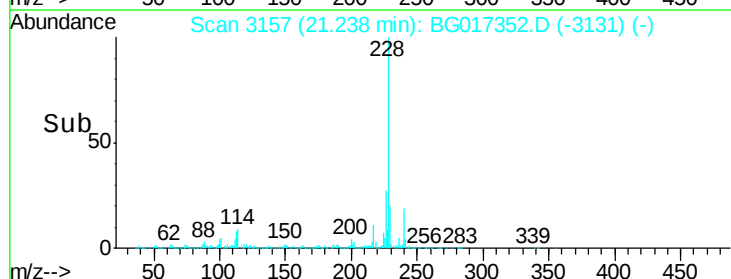
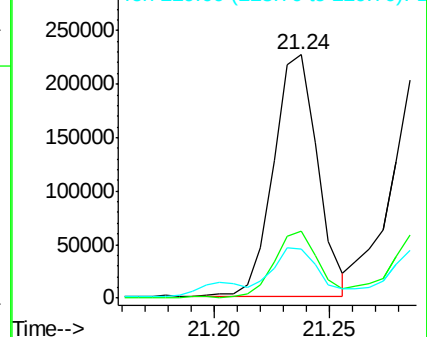
229 20.3 16.1 24.1

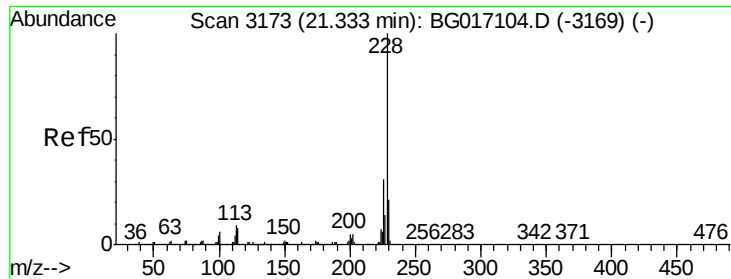


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 25.72 ng

RT: 21.28 min Scan# 3165

Delta R.T. -0.05 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

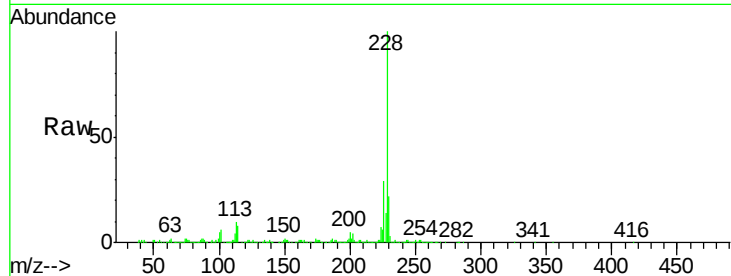
Tgt Ion:228 Resp: 277686

Ion Ratio Lower Upper

228 100

226 29.0 24.8 37.2

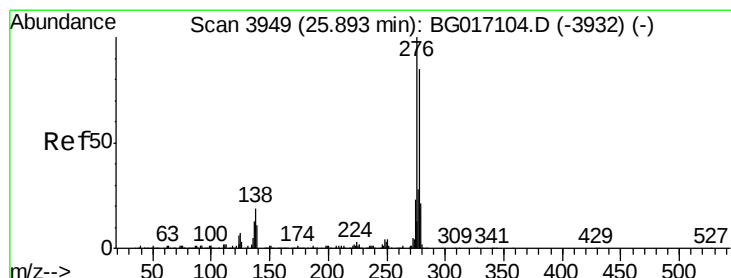
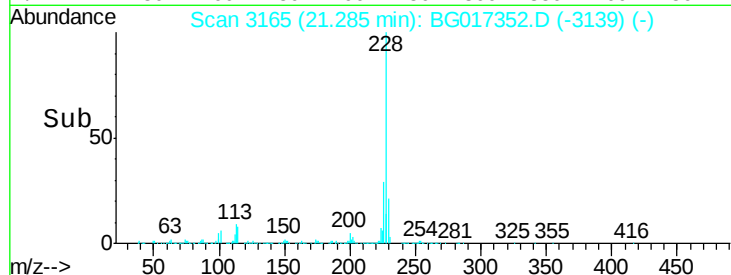
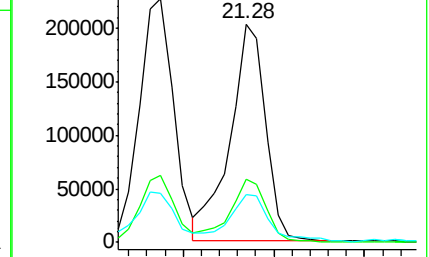
229 21.7 17.0 25.6



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: 24.11 ng

RT: 25.79 min Scan# 3931

Delta R.T. -0.11 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

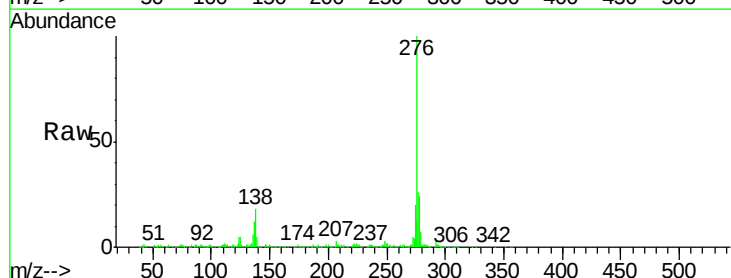
Tgt Ion:276 Resp: 311560

Ion Ratio Lower Upper

276 100

138 18.1 16.0 24.0

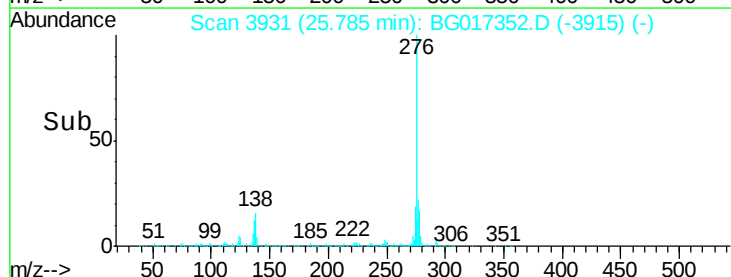
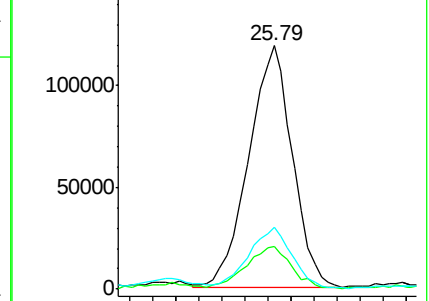
277 25.5 20.9 31.3

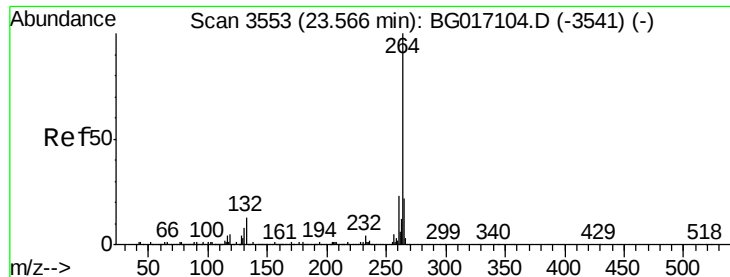


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

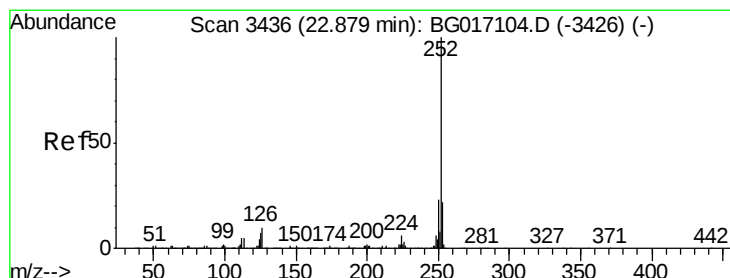
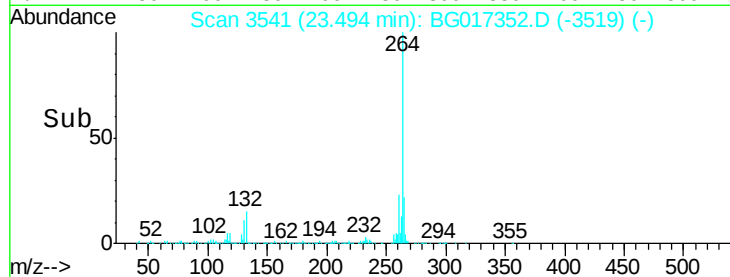
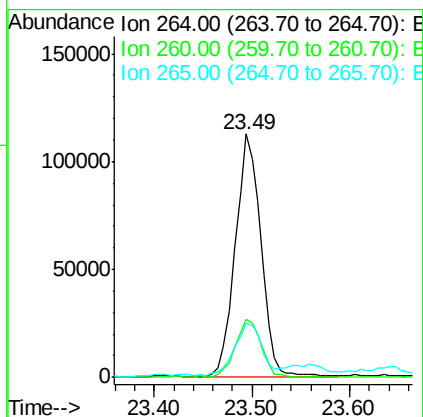
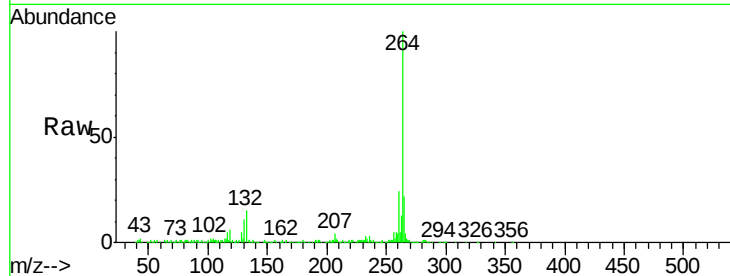




#86
Perylene-d12
Concen: 20.00 ng
RT: 23.49 min Scan# 3541
Delta R.T. -0.07 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

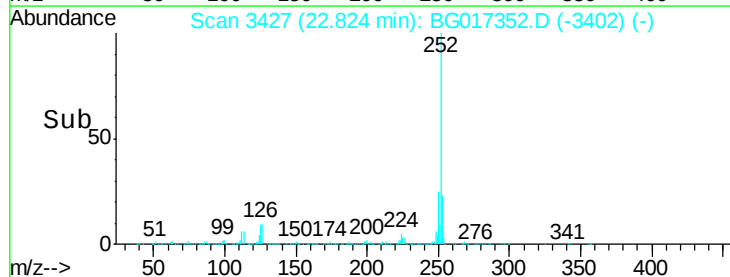
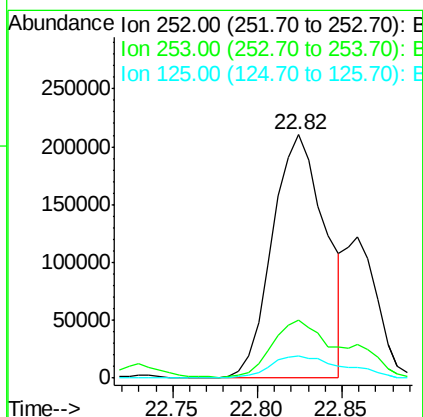
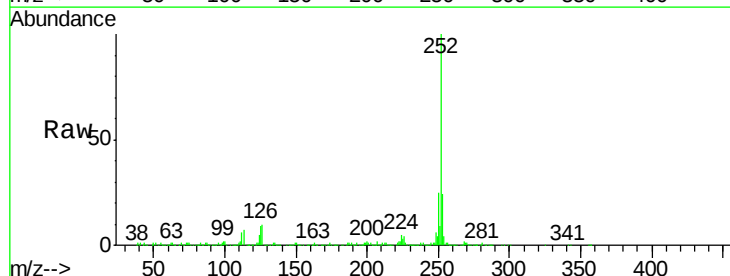
Instrument :
BNA_G
ClientSampleId :
HY-SB403B(5-5.5)

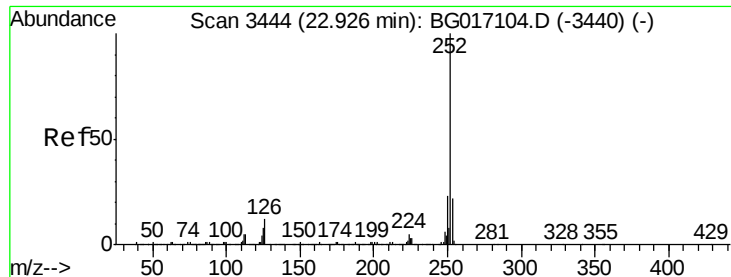
Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.0	27.0
265	22.5	17.4	26.0



#87
Benzo(b)fluoranthene
Concen: 38.19 ng
RT: 22.82 min Scan# 3427
Delta R.T. -0.05 min
Lab File: BG017352.D
Acq: 29 May 2015 9:21

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.4	26.2
125	9.0	5.9	8.9





#88

Benzo(k)fluoranthene

Concen: 40.22 ng

RT: 22.82 min Scan# 3427

Delta R.T. -0.10 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

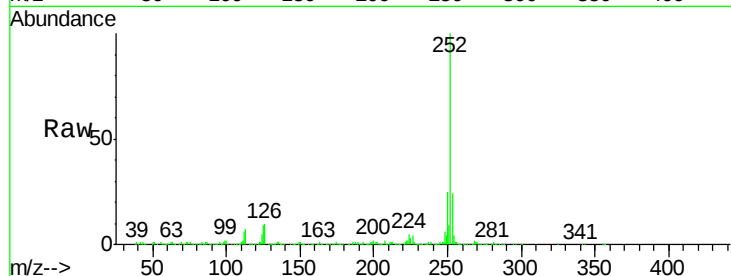
Tgt Ion:252 Resp: 456770

Ion Ratio Lower Upper

252 100

253 23.8 17.8 26.6

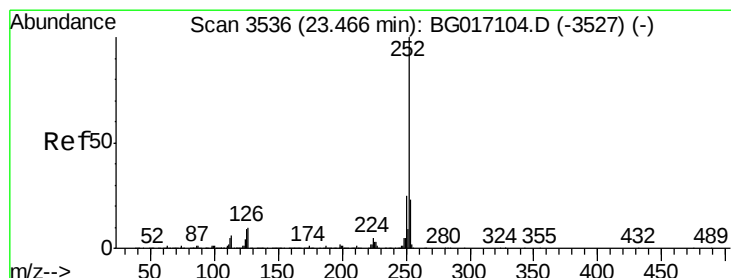
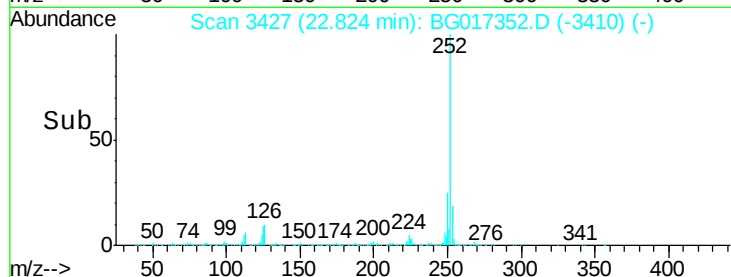
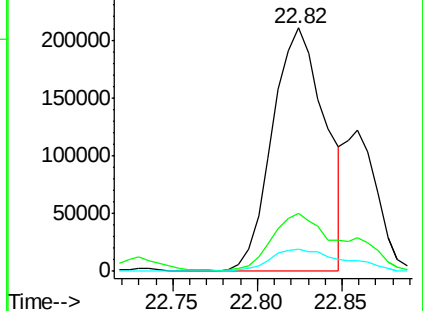
125 9.0 6.4 9.6



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



#89

Benzo(a)pyrene

Concen: 38.47 ng

RT: 23.40 min Scan# 3525

Delta R.T. -0.07 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

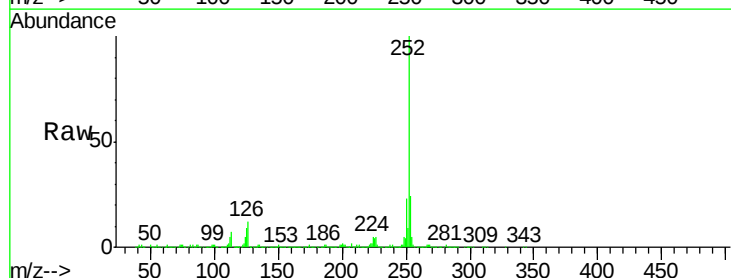
Tgt Ion:252 Resp: 422533

Ion Ratio Lower Upper

252 100

253 24.2 18.4 27.6

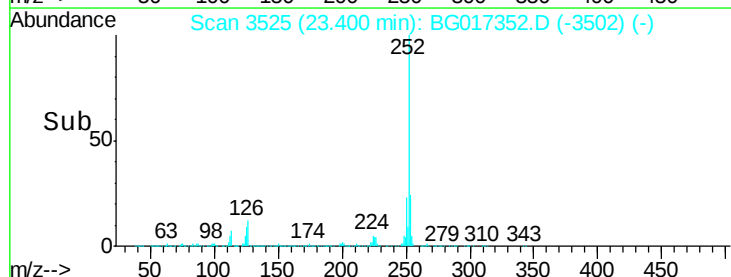
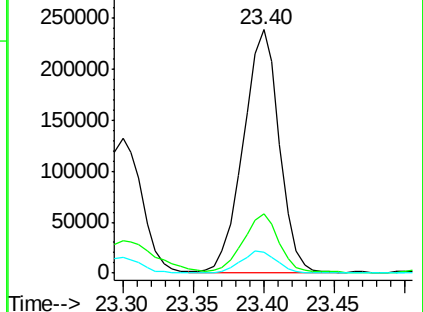
125 8.8 7.2 10.8

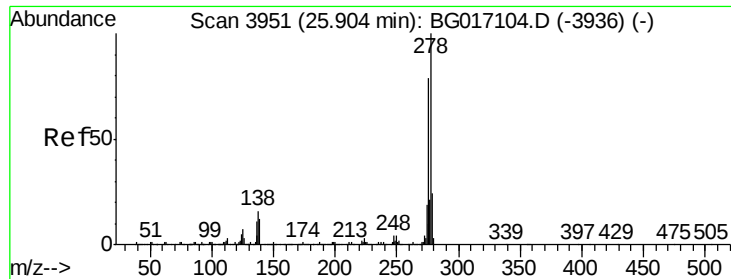


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 6.77 ng

RT: 25.79 min Scan# 3931

Delta R.T. -0.12 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

Instrument :

BNA_G

ClientSampleId :

HY-SB403B(5-5.5)

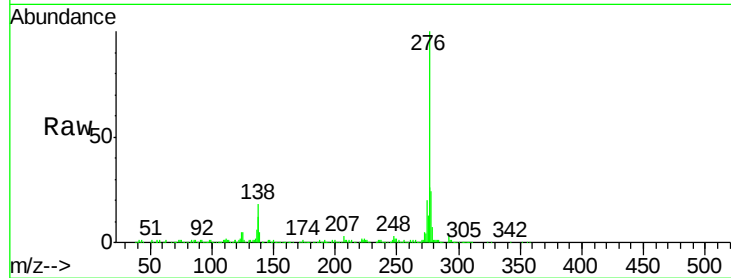
Tgt Ion:278 Resp: 76331

Ion Ratio Lower Upper

278 100

139 19.8 9.4 14.2#

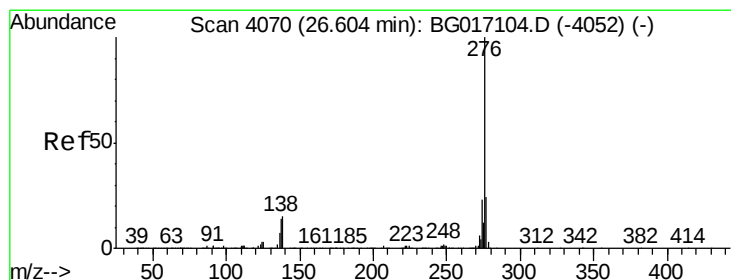
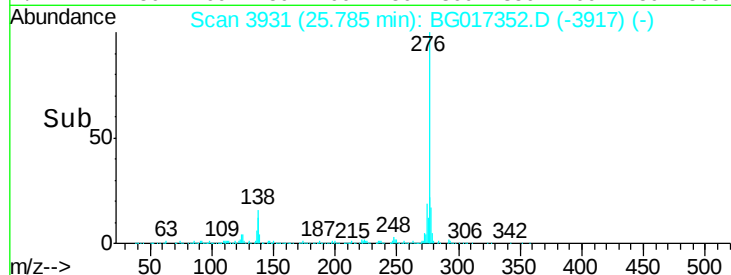
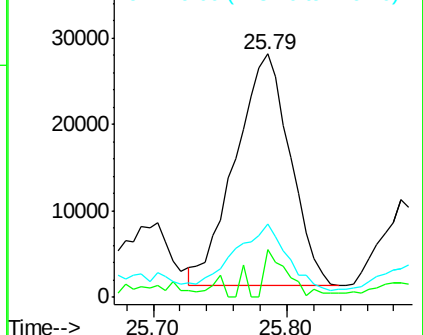
279 30.2 19.1 28.7#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 28.73 ng

RT: 26.50 min Scan# 4052

Delta R.T. -0.11 min

Lab File: BG017352.D

Acq: 29 May 2015 9:21

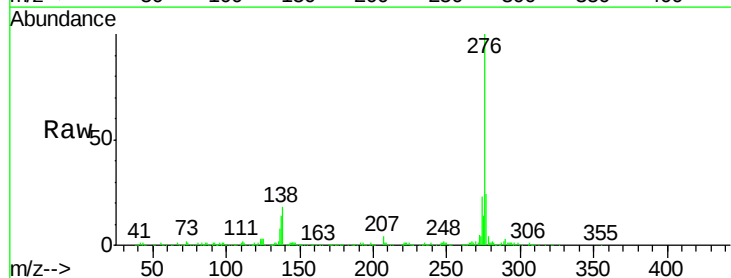
Tgt Ion:276 Resp: 304872

Ion Ratio Lower Upper

276 100

277 23.8 18.9 28.3

138 18.5 11.8 17.8#



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

