

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042715\
 Data File : BG016761.D
 Acq On : 28 Apr 2015 9:47
 Operator : TP/IZ
 Sample : G1991-10 2X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-73S

Quant Time: Apr 28 13:56:56 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG042315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 23 19:19:11 2015
 Response via : Initial Calibration

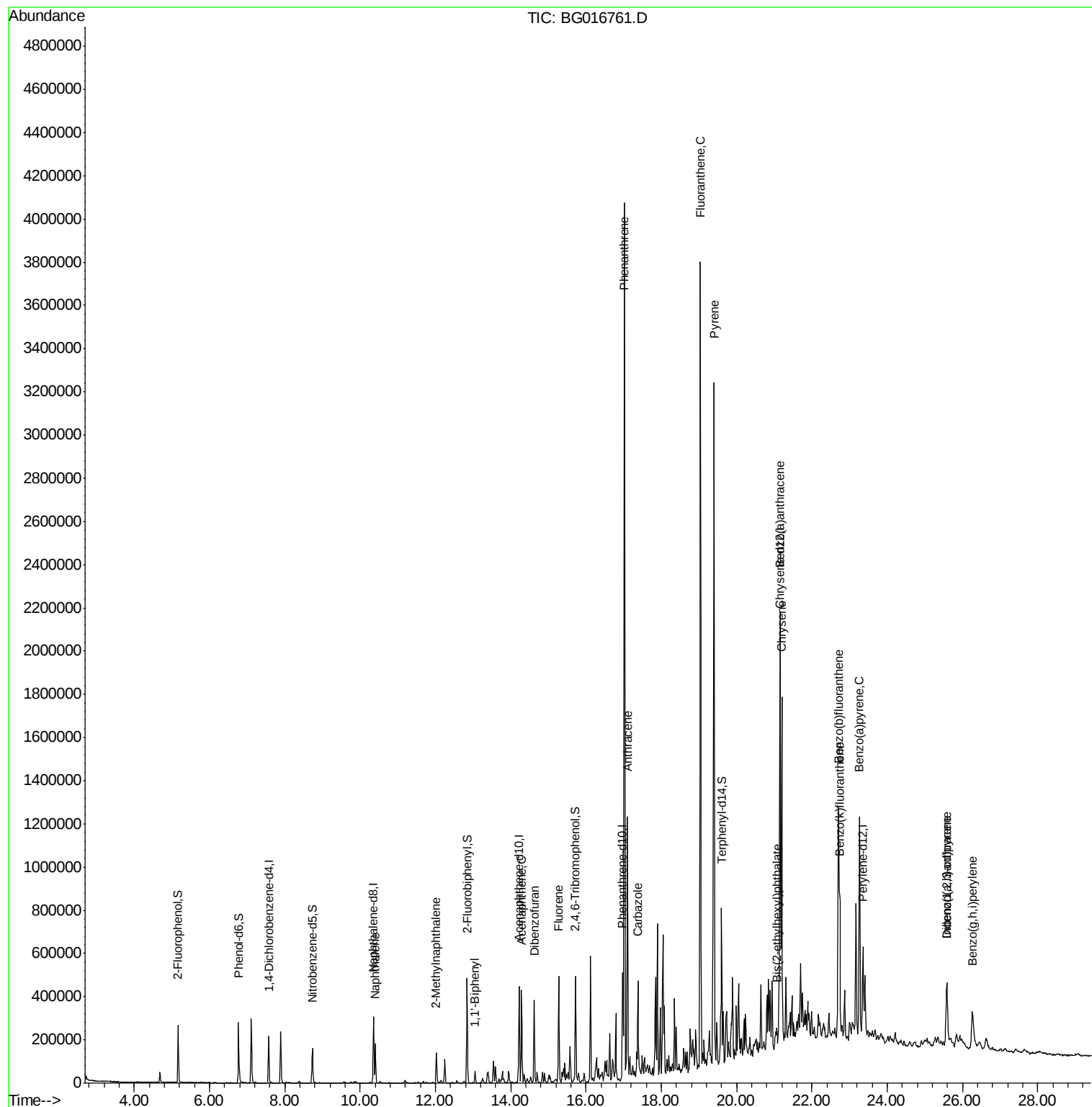
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.57	152	60309	20.00	ng	-0.03
21) Naphthalene-d8	10.36	136	263631	20.00	ng	-0.03
38) Acenaphthene-d10	14.22	164	150228	20.00	ng	-0.03
63) Phenanthrene-d10	16.97	188	289738	20.00	ng	-0.02
75) Chrysene-d12	21.16	240	259613	20.00	ng	-0.02
86) Perylene-d12	23.36	264	252839	20.00	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.17	112	140578	37.83	ng	-0.02
7) Phenol-d6	6.77	99	197020	37.79	ng	-0.03
23) Nitrobenzene-d5	8.73	82	98741	23.67	ng	-0.04
41) 2,4,6-Tribromophenol	15.72	330	44537	39.96	ng	-0.03
44) 2-Fluorobiphenyl	12.84	172	242783	25.96	ng	-0.03
78) Terphenyl-d14	19.60	244	265953	23.60	ng	-0.03
Target Compounds						Qvalue
31) Naphthalene	10.40	128	155241	11.17	ng	97
37) 2-Methylnaphthalene	12.02	142	70967	7.07	ng	98
45) 1,1'-Biphenyl	13.05	154	23924	2.03	ng	98
51) Acenaphthene	14.29	154	157075	16.48	ng	99
54) Dibenzofuran	14.63	168	222363	16.54	ng	97
57) Fluorene	15.27	166	210045	17.87	ng	98
70) Phenanthrene	17.02	178	2148813m	129.10	ng	
71) Anthracene	17.11	178	699759	42.27	ng	100
72) Carbazole	17.38	167	266987	16.10	ng	98
74) Fluoranthene	19.04	202	1894728	107.43	ng	91
77) Pyrene	19.40	202	1686708	92.48	ng	93
80) Benzo(a)anthracene	21.15	228	880190	55.91	ng	99
82) Chrysene	21.20	228	711815	47.17	ng	97
83) Bis(2-ethylhexyl)phthalate	21.07	149	26051	2.13	ng	96
85) Indeno(1,2,3-cd)pyrene	25.58	276	264527	16.08	ng	# 86
87) Benzo(b)fluoranthene	22.71	252	777426m	50.62	ng	
88) Benzo(k)fluoranthene	22.74	252	293783m	19.60	ng	
89) Benzo(a)pyrene	23.26	252	604294	41.76	ng	96
90) Dibenzo(a,h)anthracene	25.58	278	67388	4.79	ng	# 66
91) Benzo(a,h,i)perylene	26.26	276	251763	17.58	ng	98

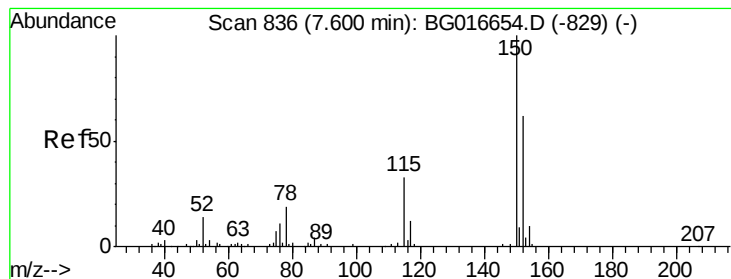
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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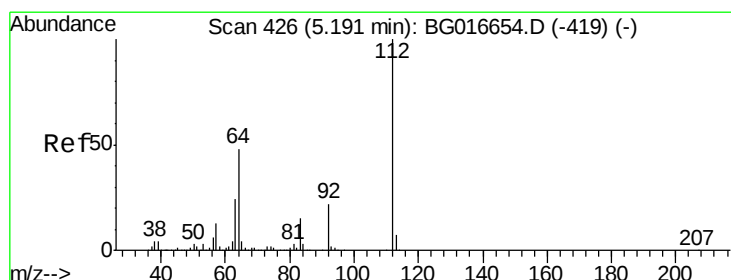
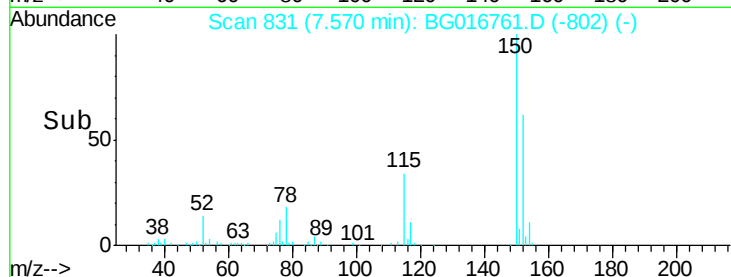
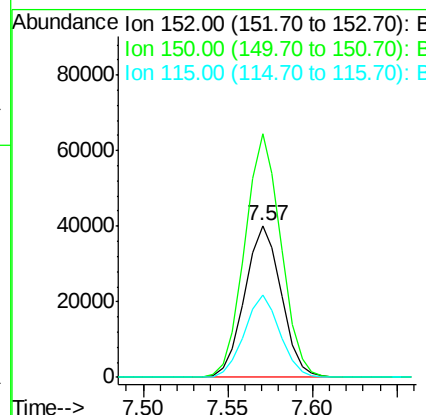
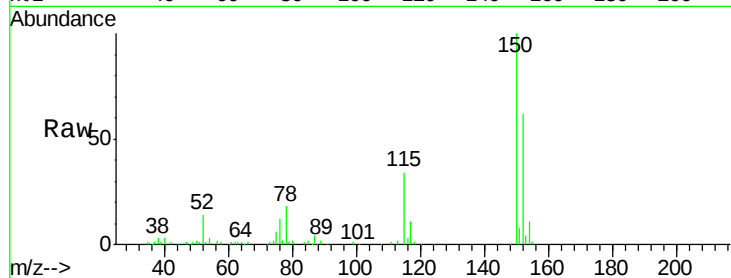


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.57 min Scan# 831
Delta R.T. -0.03 min
Lab File: BG016761.D
Acq: 28 Apr 2015 9:47

Instrument :
BNA_G
ClientSampleId :
SB-73S

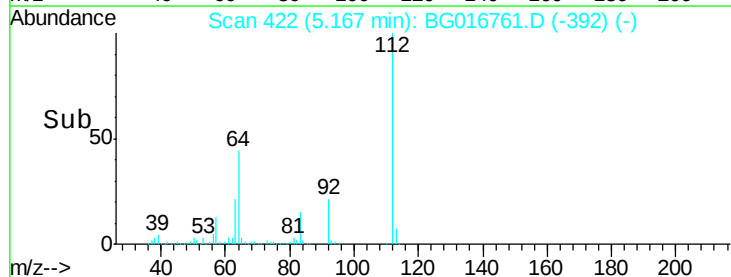
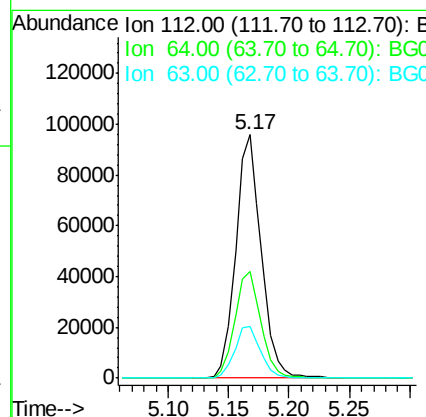
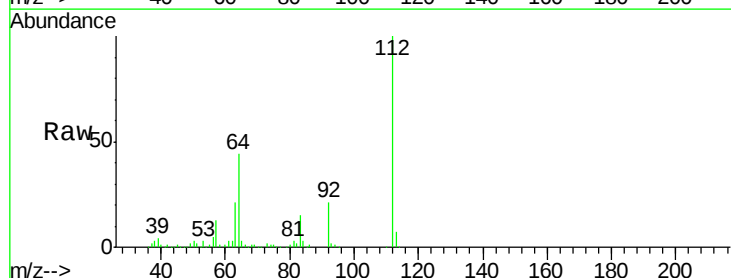
Tot Ion	152	Resp	60309
Ion Ratio	Lower	Upper	
152	100		
150	160.3	129.6	194.4
115	54.6	43.0	64.6



#5

2-Fluorophenol
Concen: 37.83 ng
RT: 5.17 min Scan# 422
Delta R.T. -0.02 min
Lab File: BG016761.D
Acq: 28 Apr 2015 9:47

Tgt Ion	112	Resp	140578
Ion Ratio	Lower	Upper	
112	100		
64	43.6	38.3	57.5
63	21.3	18.9	28.3





#7

Phenol-d6

Concen: 37.79 ng

RT: 6.77 min Scan# 695

Delta R.T. -0.03 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

Instrument :

BNA_G

ClientSampleId :

SB-73S

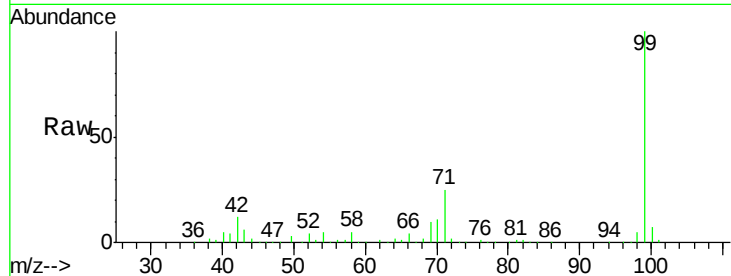
Tot Ion: 99 Resp: 197020

Ion Ratio Lower Upper

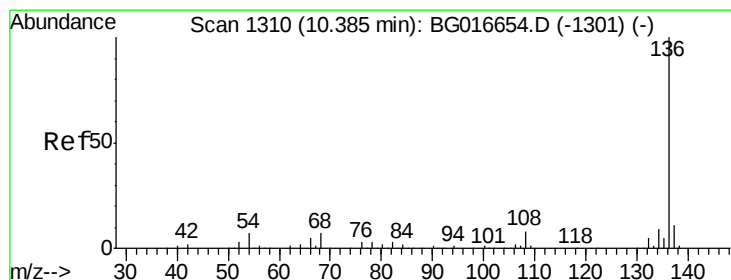
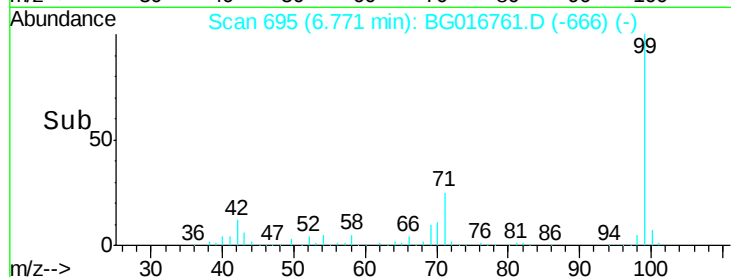
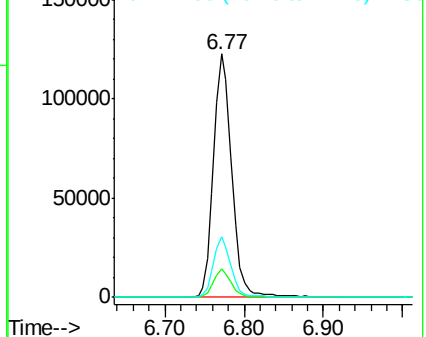
99 100

42 11.8 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: 10.36 min Scan# 1305

Delta R.T. -0.03 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

Tgt Ion: 136 Resp: 263631

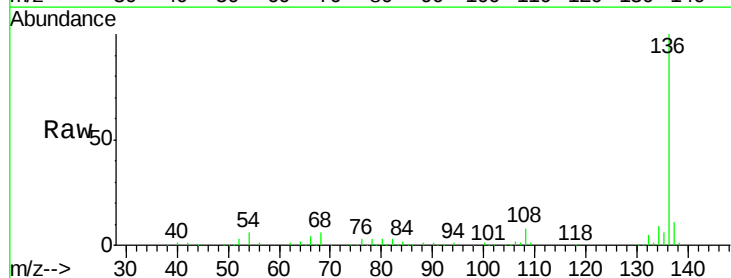
Ion Ratio Lower Upper

136 100

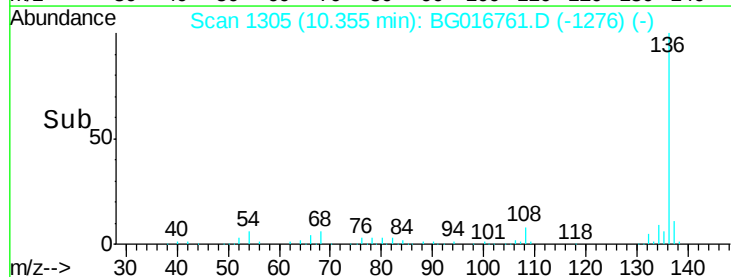
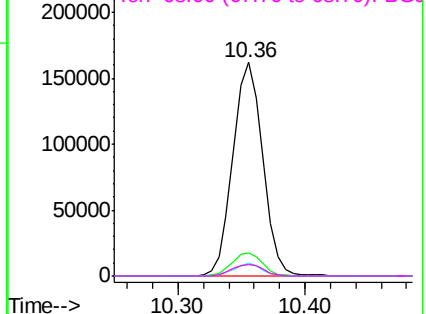
137 10.7 8.5 12.7

54 5.9 5.4 8.2

68 5.5 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

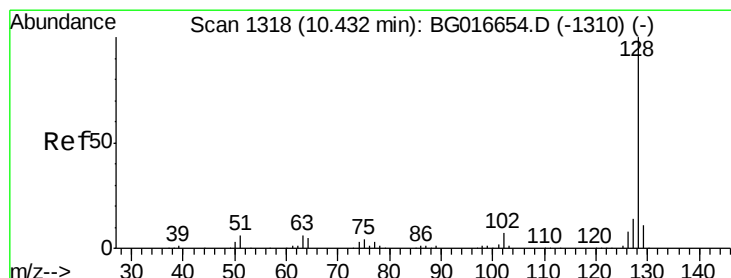
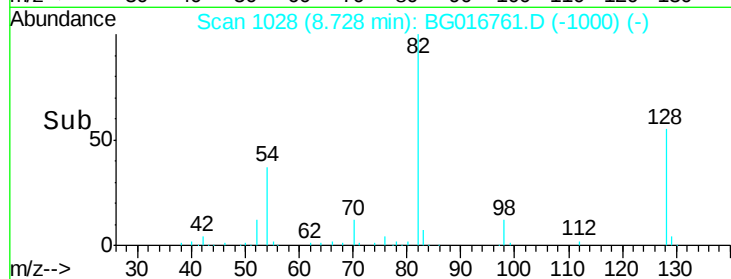
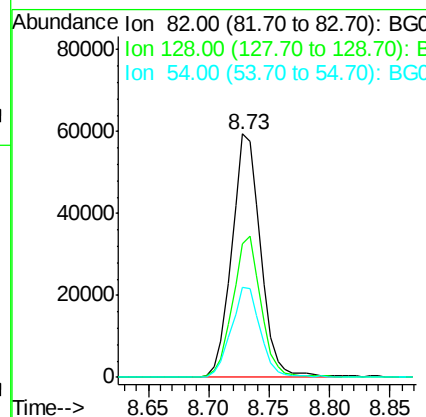
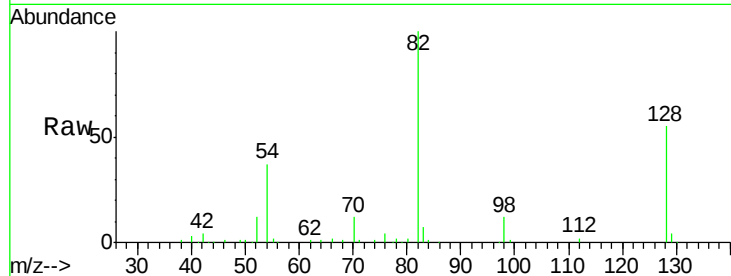




#23
 Nitrobenzene-d5
 Concen: 23.67 ng
 RT: 8.73 min Scan# 1028
 Delta R.T. -0.04 min
 Lab File: BG016761.D
 Acq: 28 Apr 2015 9:47

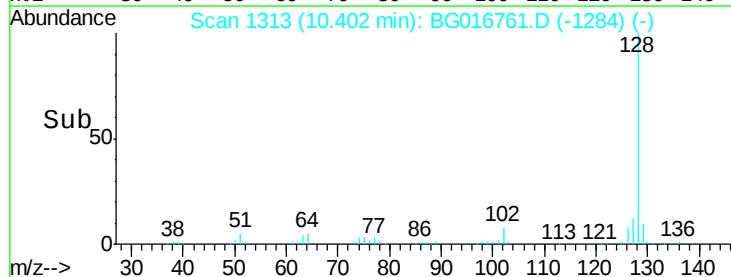
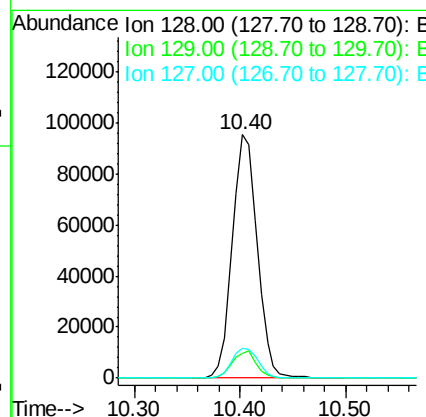
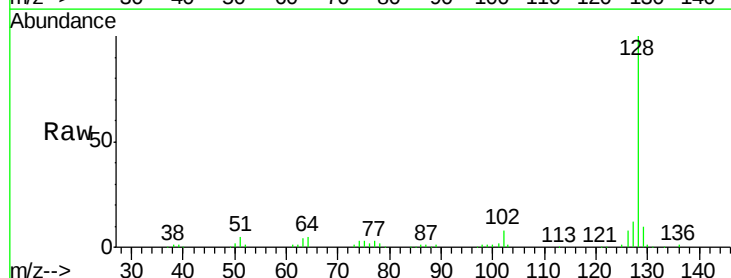
Instrument :
 BNA_G
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 SB-73S

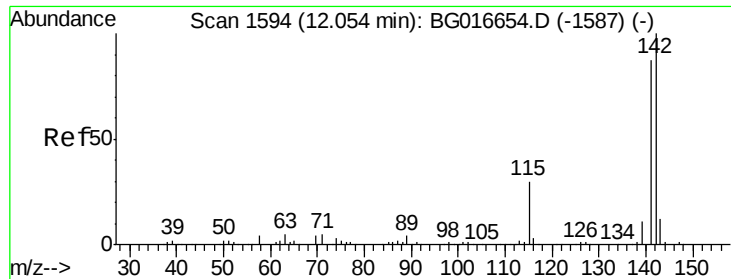
Tot Ion	82	Resp	98741
Ion Ratio	100	Lower	Upper
128	54.6	44.7	67.1
54	36.8	30.9	46.3



#31
 Naphthalene
 Concen: 11.17 ng
 RT: 10.40 min Scan# 1313
 Delta R.T. -0.03 min
 Lab File: BG016761.D
 Acq: 28 Apr 2015 9:47

Tgt Ion	128	Resp	155241
Ion Ratio	100	Lower	Upper
129	10.3	9.0	13.6
127	12.4	11.1	16.7

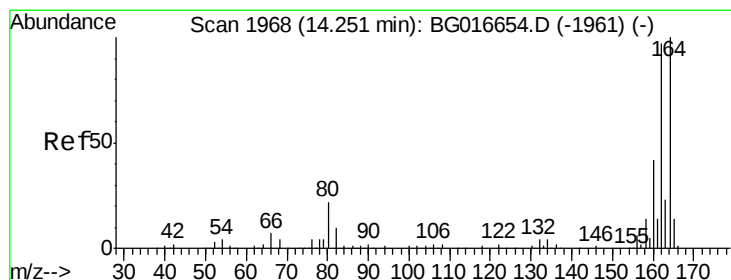
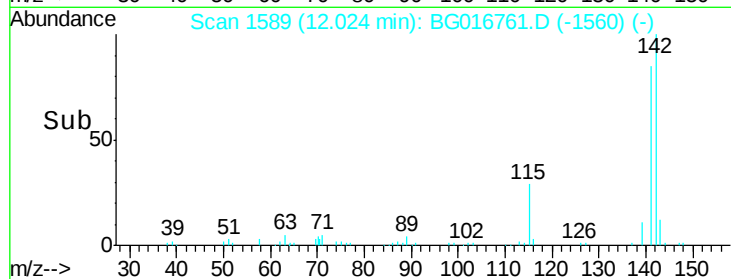
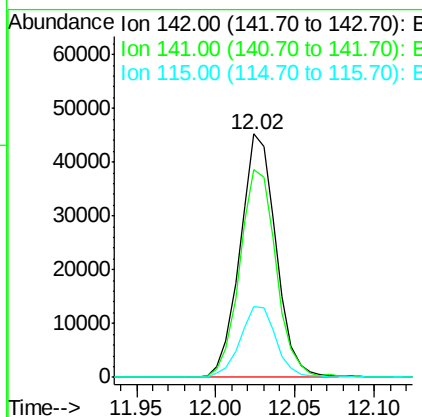
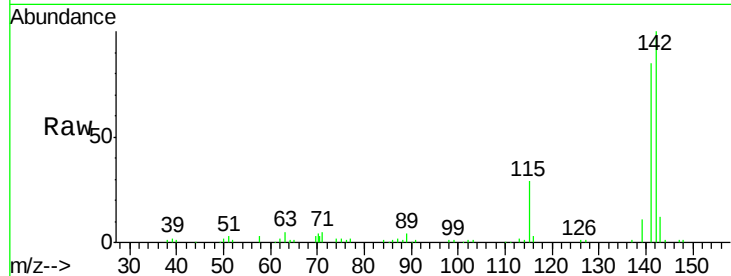




#37
2-Methylnaphthalene
Concen: 7.07 ng
RT: 12.02 min Scan# 1589
Delta R.T. -0.03 min
Lab File: BG016761.D
Acq: 28 Apr 2015 9:47

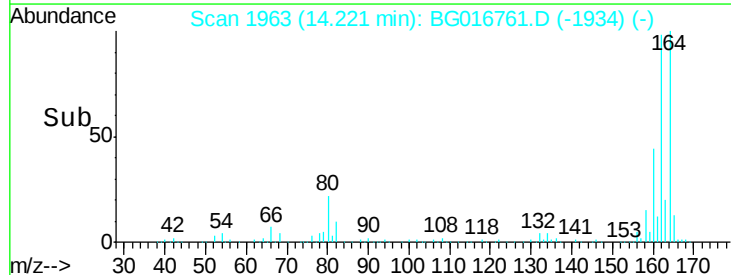
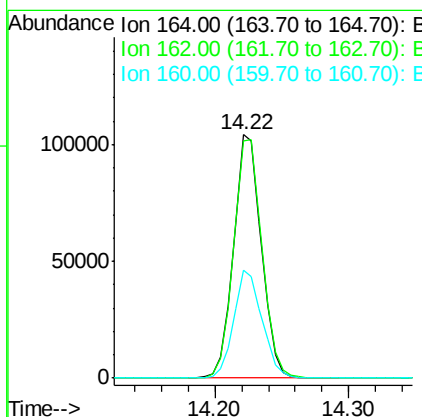
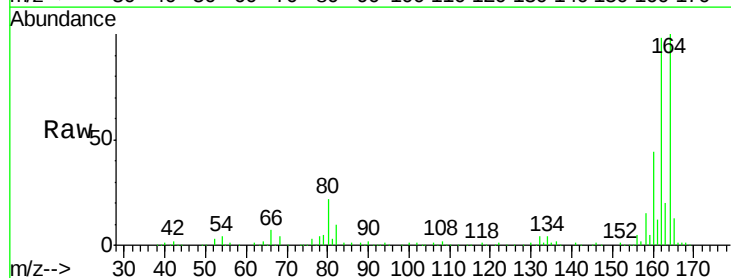
Instrument :
BNA_G
ClientSampleId :
SB-73S

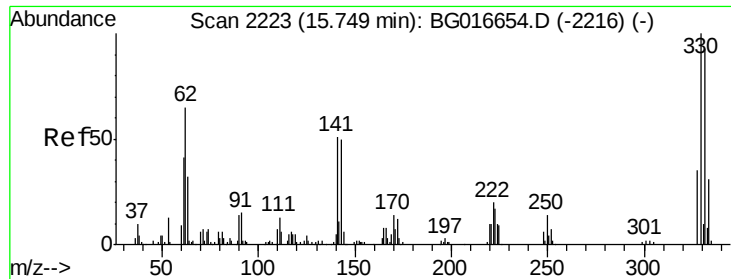
Tot Ion:142 Resp: 70967
Ion Ratio Lower Upper
142 100
141 85.4 69.9 104.9
115 28.9 24.0 36.0



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.22 min Scan# 1963
Delta R.T. -0.03 min
Lab File: BG016761.D
Acq: 28 Apr 2015 9:47

Tgt Ion:164 Resp: 150228
Ion Ratio Lower Upper
164 100
162 97.6 77.3 115.9
160 44.3 33.7 50.5

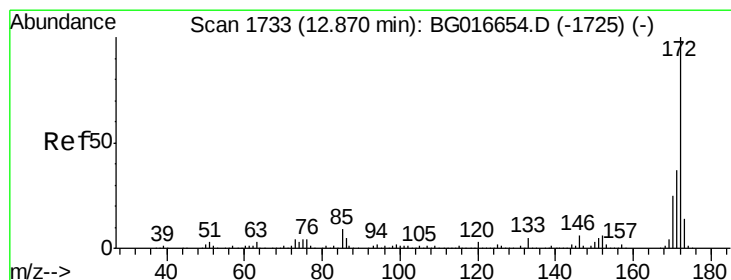
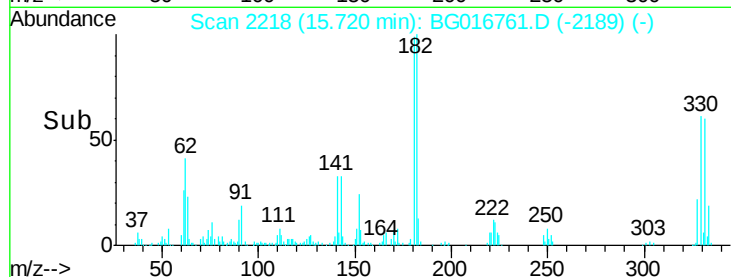
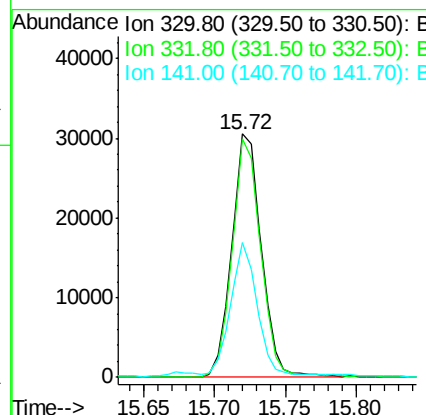
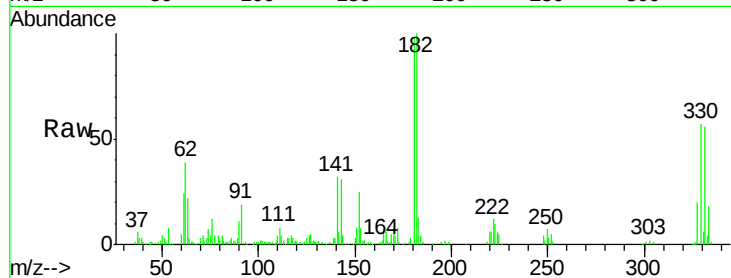




#41
 2,4,6-Tribromophenol
 Concen: 39.96 ng
 RT: 15.72 min Scan# 2218
 Delta R.T. -0.03 min
 Lab File: BG016761.D
 Acq: 28 Apr 2015 9:47

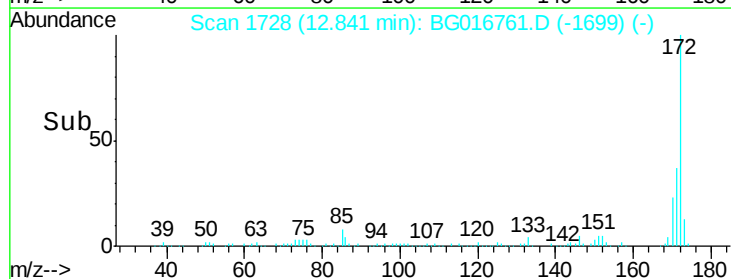
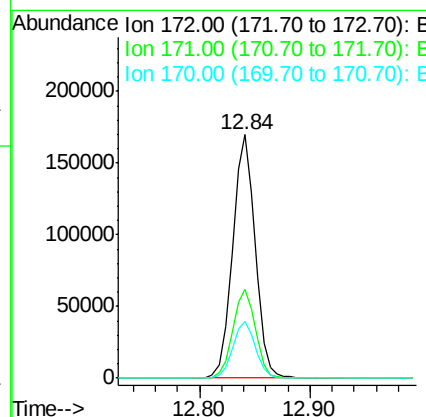
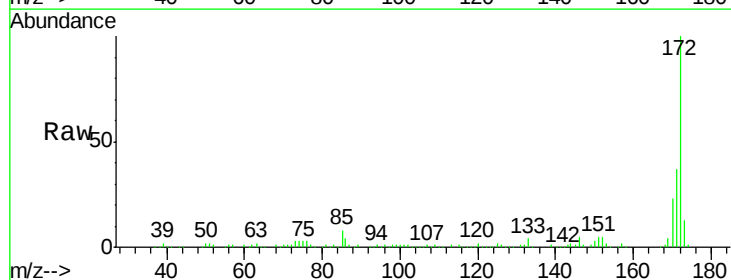
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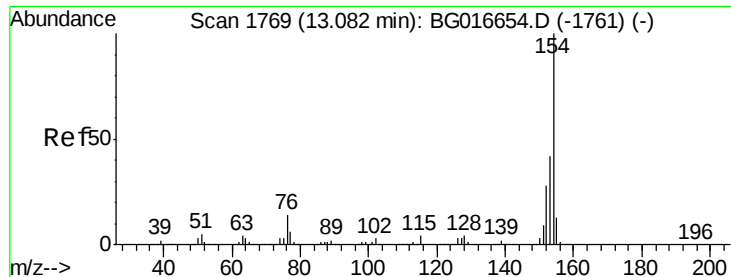
Tot Ion:330 Resp: 44537
 Ion Ratio Lower Upper
 330 100
 332 94.9 76.2 114.4
 141 48.6 43.0 64.6



#44
 2-Fluorobiphenyl
 Concen: 25.96 ng
 RT: 12.84 min Scan# 1728
 Delta R.T. -0.03 min
 Lab File: BG016761.D
 Acq: 28 Apr 2015 9:47

Tgt Ion:172 Resp: 242783
 Ion Ratio Lower Upper
 172 100
 171 36.6 29.9 44.9
 170 23.3 19.8 29.8





#45

1,1'-Biphenyl

Concen: 2.03 ng

RT: 13.05 min Scan# 1764

Delta R.T. -0.03 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

Instrument :

BNA_G

ClientSampleId :

SB-73S

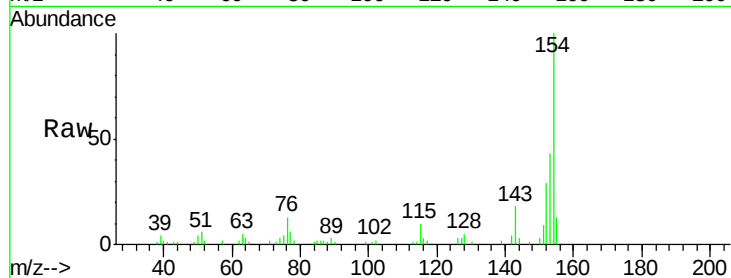
Tot Ion:154 Resp: 23924

Ion Ratio Lower Upper

154 100

153 42.9 21.8 61.8

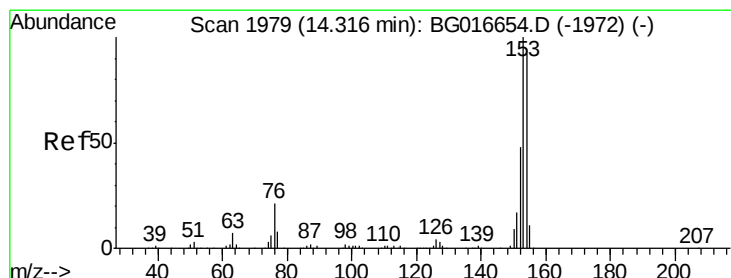
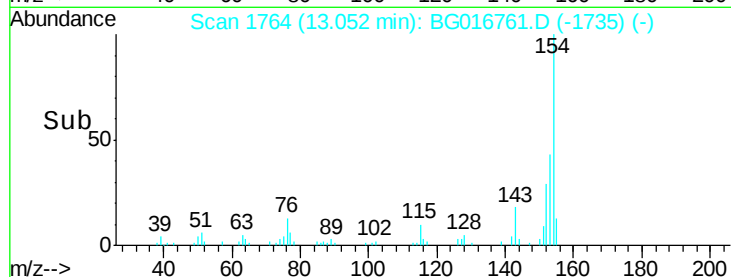
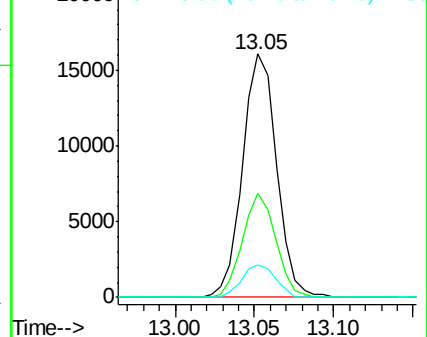
76 13.1 0.0 33.7



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): B



#51

Acenaphthene

Concen: 16.48 ng

RT: 14.29 min Scan# 1974

Delta R.T. -0.03 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

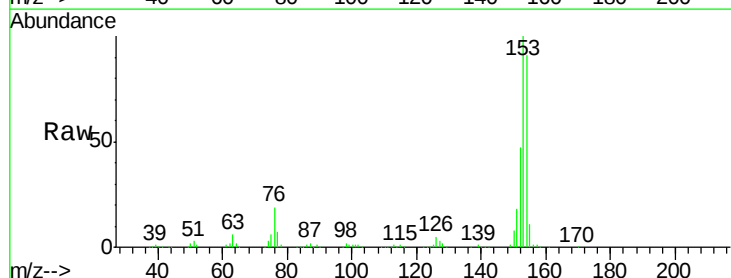
Tgt Ion:154 Resp: 157075

Ion Ratio Lower Upper

154 100

153 110.3 87.0 130.6

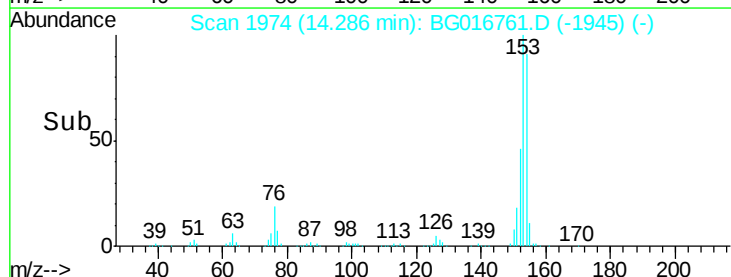
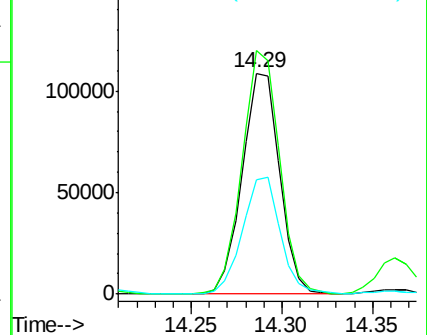
152 51.6 41.6 62.4

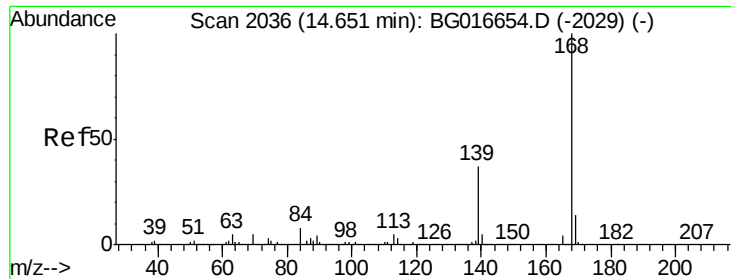


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 16.54 ng

RT: 14.63 min Scan# 2032

Delta R.T. -0.02 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

Instrument :

BNA_G

ClientSampleId :

SB-73S

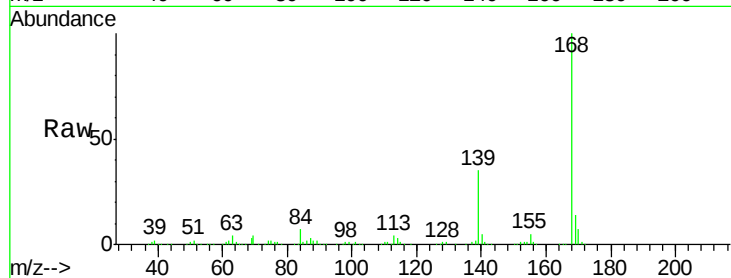
Tot Ion:168 Resp: 222363

Ion Ratio Lower Upper

168 100

139 35.1 29.8 44.8

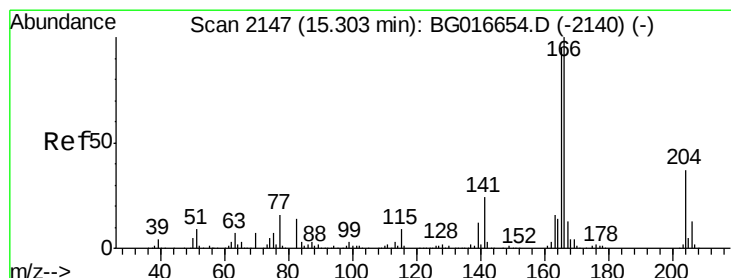
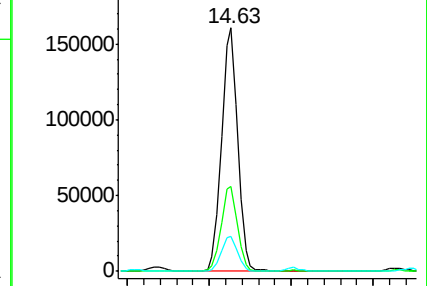
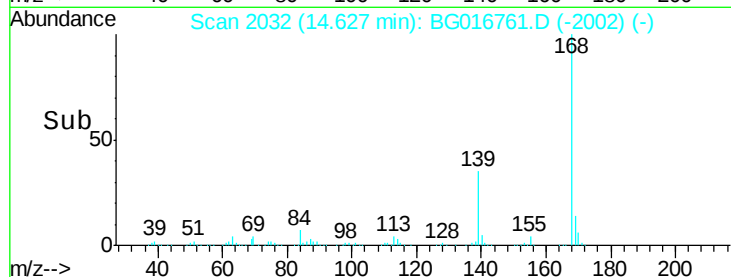
169 14.2 11.0 16.4



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 17.87 ng

RT: 15.27 min Scan# 2142

Delta R.T. -0.03 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

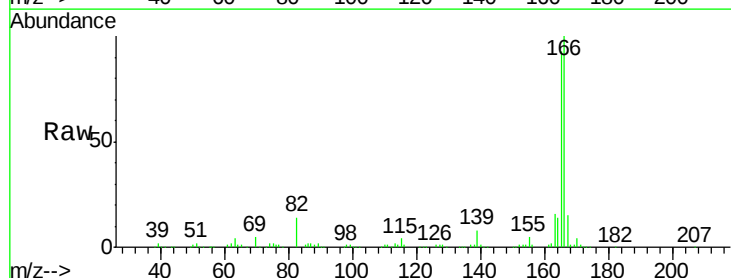
Tgt Ion:166 Resp: 210045

Ion Ratio Lower Upper

166 100

165 93.0 75.6 113.4

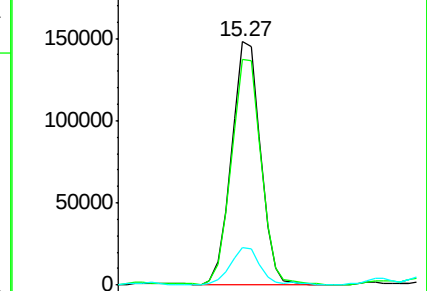
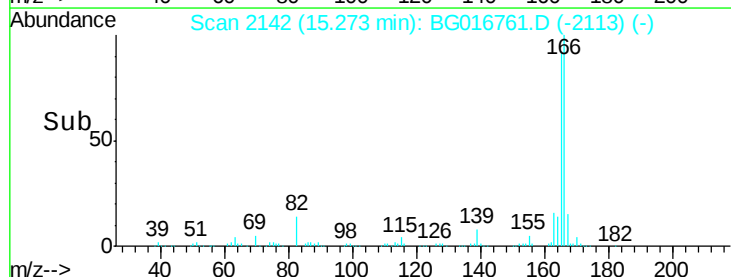
167 15.3 10.7 16.1

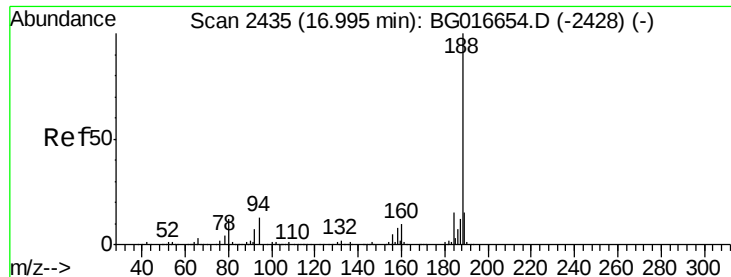


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

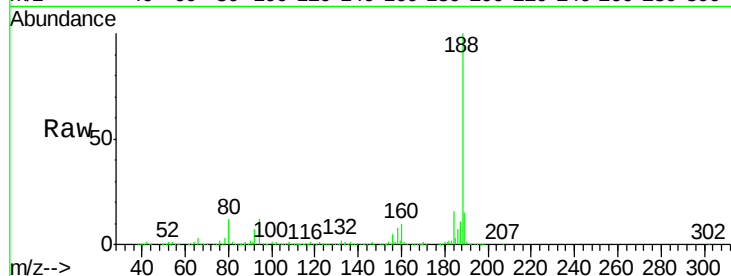




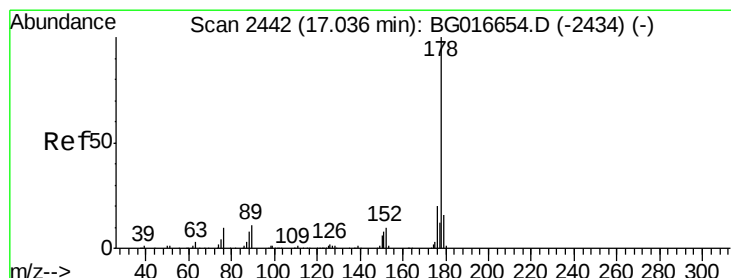
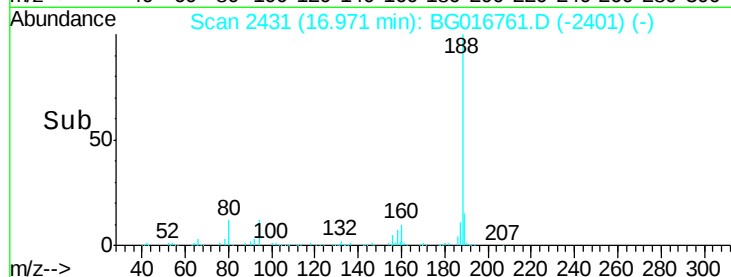
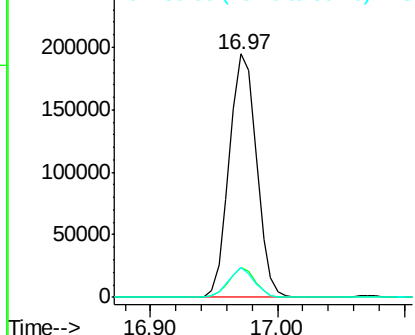
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 16.97 min Scan# 2431
Delta R.T. -0.02 min
Lab File: BG016761.D
Acq: 28 Apr 2015 9:47

Instrument :
BNA_G
ClientSampleID :
SB-73S

Tot Ion:188 Resp: 289738
Ion Ratio Lower Upper
188 100
94 12.0 10.7 16.1
80 12.0 9.9 14.9

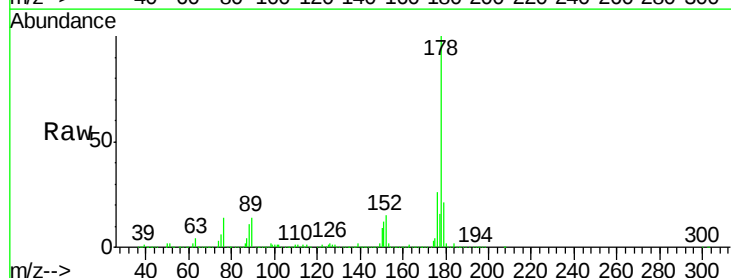


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BGO
Ion 80.00 (79.70 to 80.70): BGO

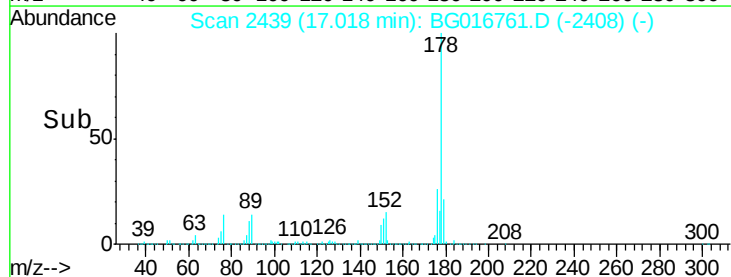
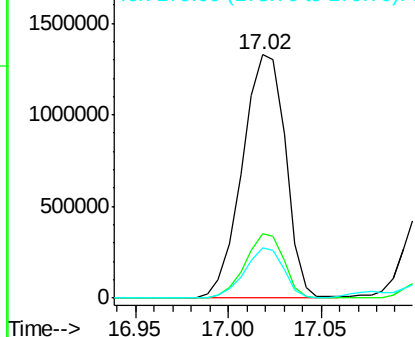


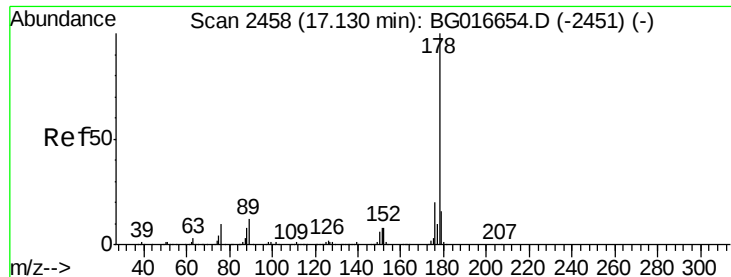
#70
Phenanthrene
Concen: 129.10 ng m
RT: 17.02 min Scan# 2439
Delta R.T. -0.02 min
Lab File: BG016761.D
Acq: 28 Apr 2015 9:47

Tgt Ion:178 Resp: 2148813
Ion Ratio Lower Upper
178 100
176 26.5 15.8 23.6#
179 20.8 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

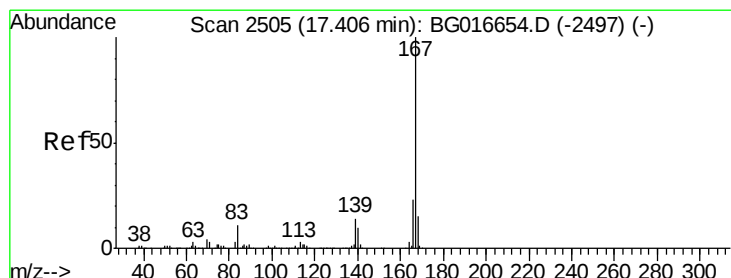
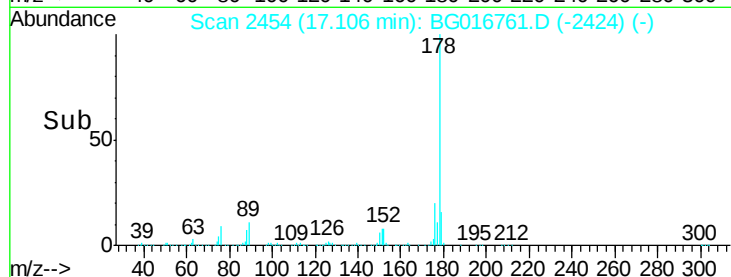
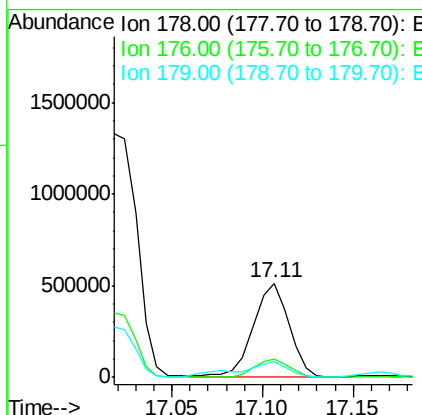
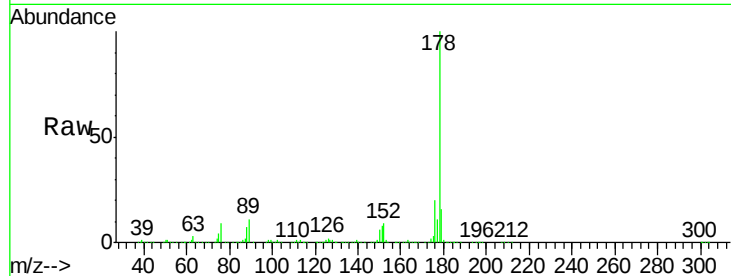




#71
 Anthracene
 Concen: 42.27 ng
 RT: 17.11 min Scan# 2454
 Delta R.T. -0.02 min
 Lab File: BG016761.D
 Acq: 28 Apr 2015 9:47

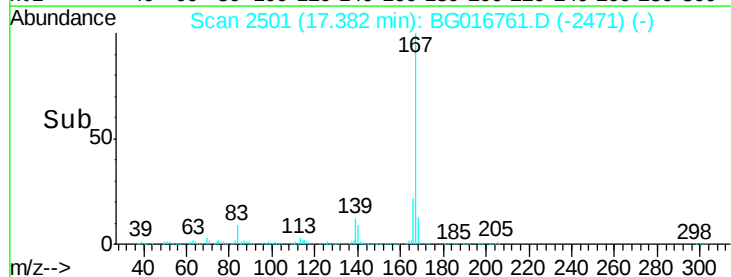
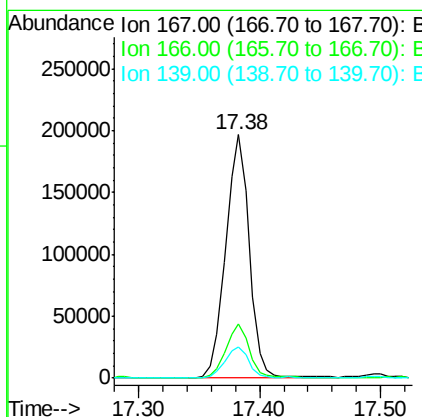
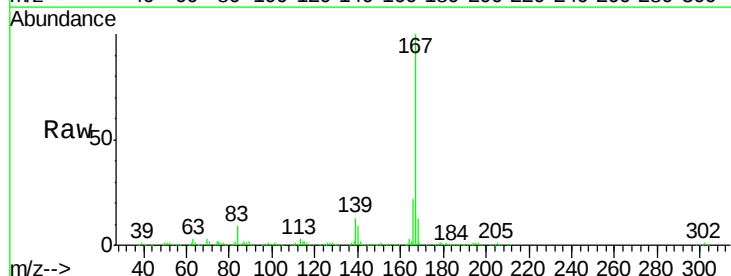
Instrument :
 BNA_G
 ClientSampleId :
 SB-73S

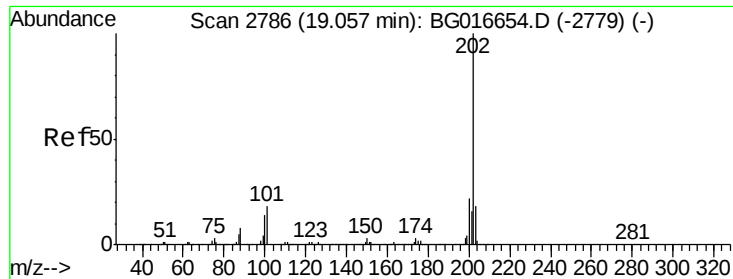
Tot Ion:178 Resp: 699759
 Ion Ratio Lower Upper
 178 100
 176 19.9 16.0 24.0
 179 16.2 12.9 19.3



#72
 Carbazole
 Concen: 16.10 ng
 RT: 17.38 min Scan# 2501
 Delta R.T. -0.02 min
 Lab File: BG016761.D
 Acq: 28 Apr 2015 9:47

Tgt Ion:167 Resp: 266987
 Ion Ratio Lower Upper
 167 100
 166 22.2 18.4 27.6
 139 12.7 11.1 16.7





#74

Fluoranthene

Concen: 107.43 ng

RT: 19.04 min Scan# 2783

Delta R.T. -0.02 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

Instrument :

BNA_G

ClientSampleId :

SB-73S

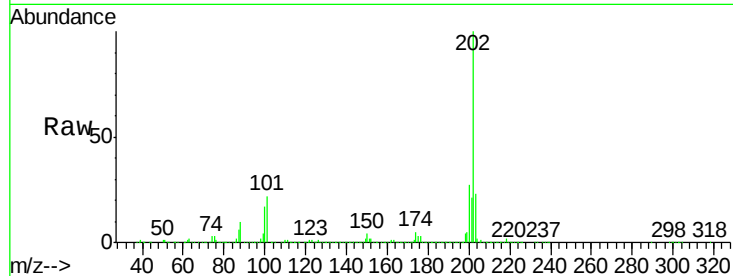
Tot Ion:202 Resp: 1894728

Ion Ratio Lower Upper

202 100

101 21.7 0.0 38.1

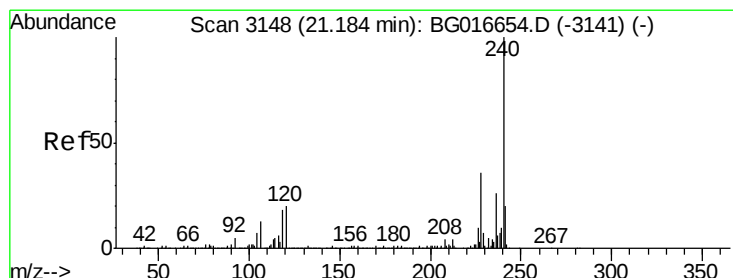
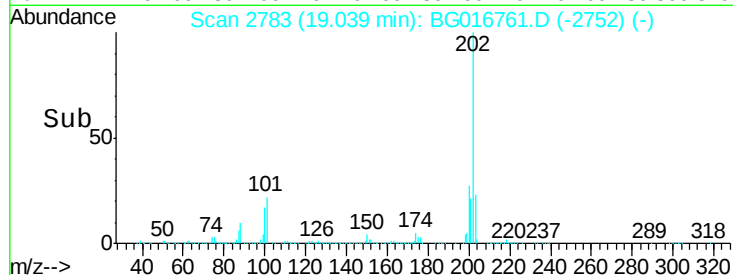
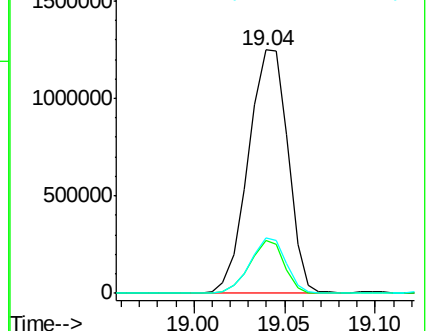
203 22.7 0.0 38.4



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. -0.02 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

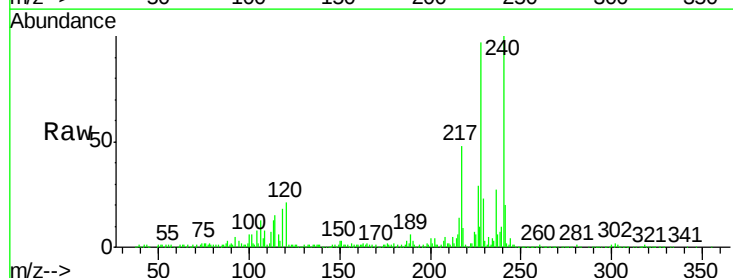
Tgt Ion:240 Resp: 259613

Ion Ratio Lower Upper

240 100

120 21.1 16.3 24.5

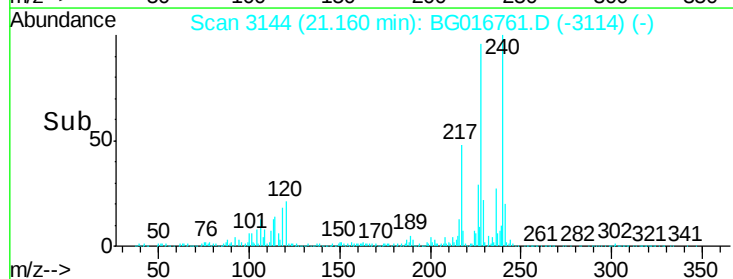
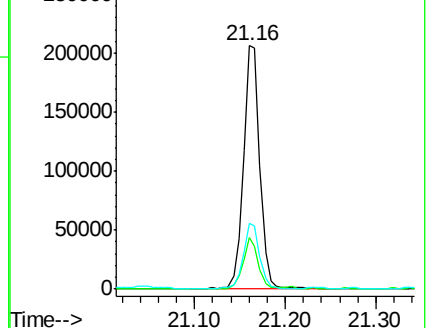
236 27.1 21.1 31.7

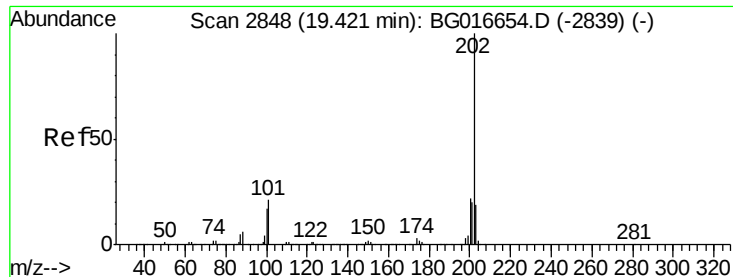


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 92.48 ng

RT: 19.40 min Scan# 2845

Delta R.T. -0.02 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

Instrument :

BNA_G

ClientSampled :

SB-73S

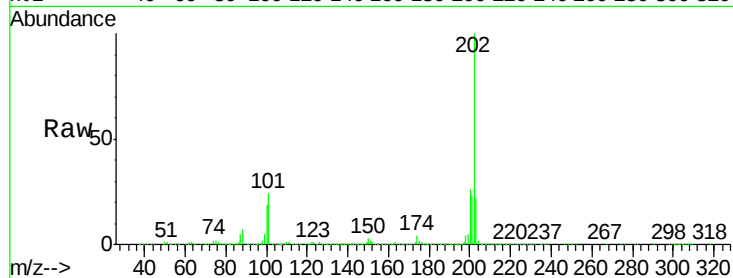
Tot Ion:202 Resp: 1686708

Ion Ratio Lower Upper

202 100

200 26.2 18.0 27.0

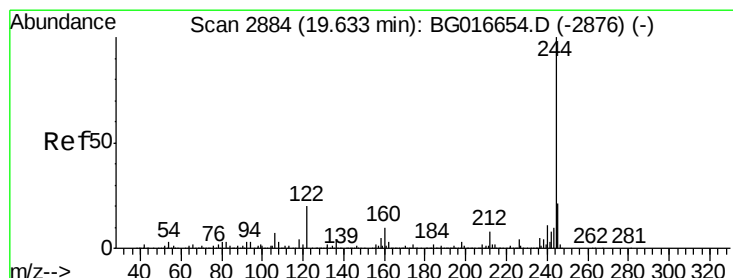
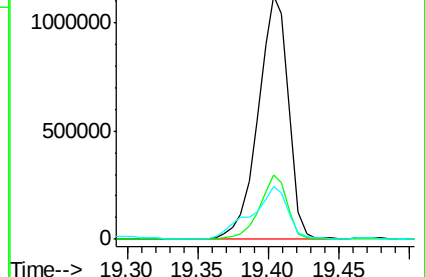
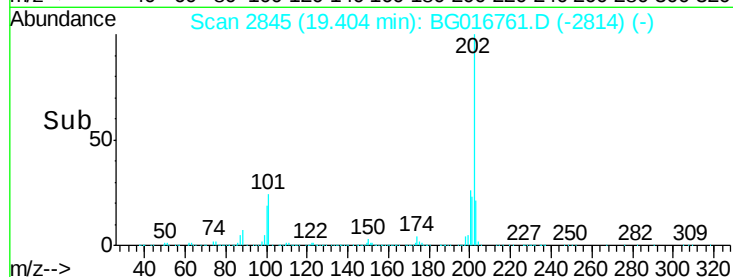
203 21.7 14.9 22.3



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



#78

Terphenyl-d14

Concen: 23.60 ng

RT: 19.60 min Scan# 2879

Delta R.T. -0.03 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

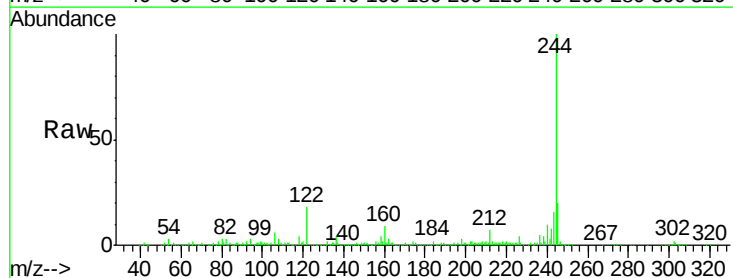
Tgt Ion:244 Resp: 265953

Ion Ratio Lower Upper

244 100

212 7.1 6.4 9.6

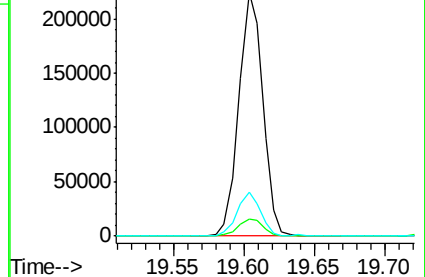
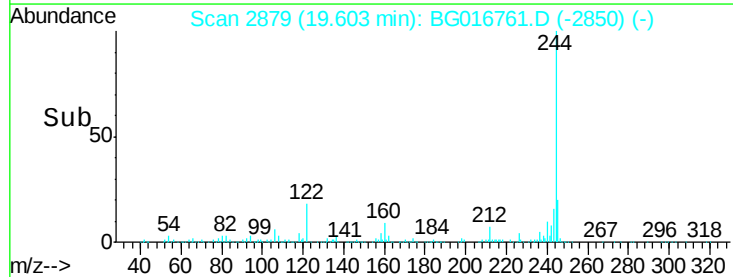
122 18.2 15.9 23.9

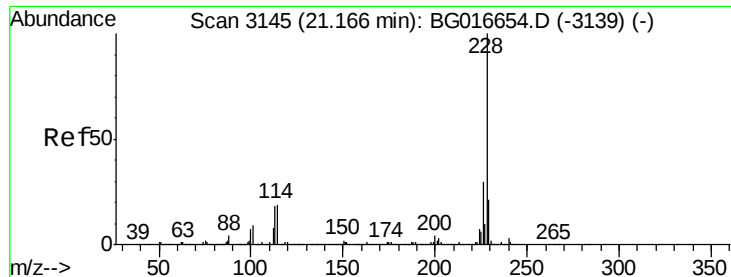


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 55.91 ng

RT: 21.15 min Scan# 3142

Delta R.T. -0.02 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

Instrument :

BNA_G

ClientSampleId :

SB-73S

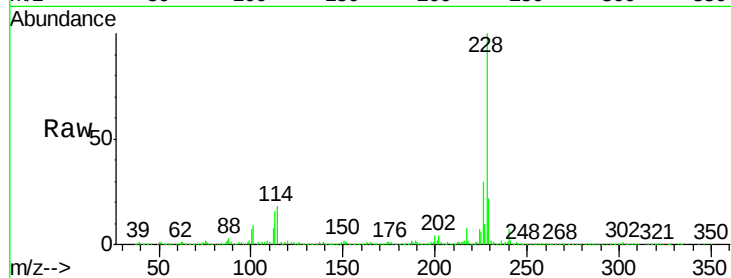
Tot Ion:228 Resp: 880190

Ion Ratio Lower Upper

228 100

226 30.2 23.8 35.6

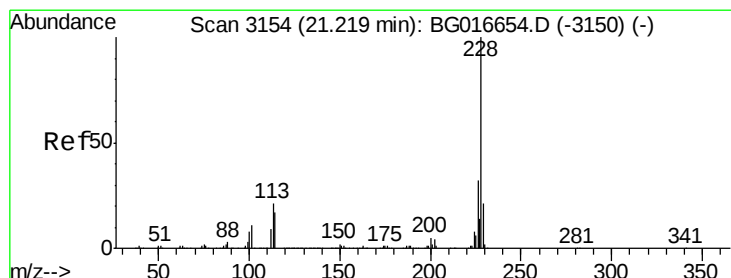
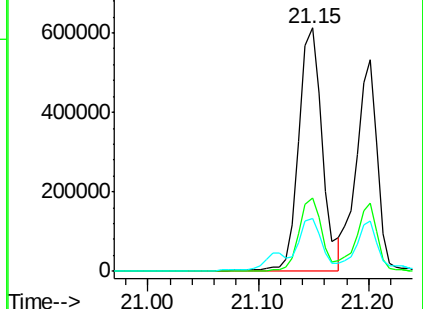
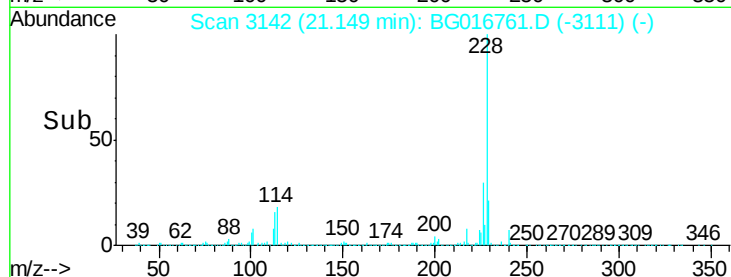
229 21.8 17.0 25.4



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: 47.17 ng

RT: 21.20 min Scan# 3151

Delta R.T. -0.02 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

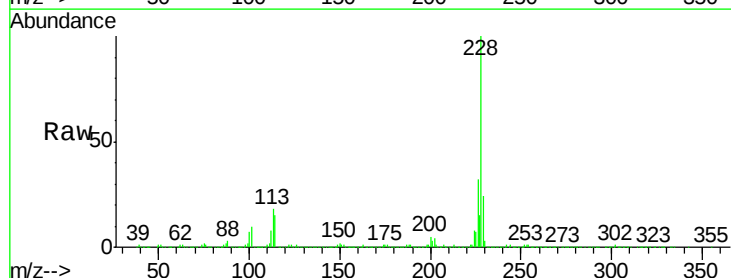
Tgt Ion:228 Resp: 711815

Ion Ratio Lower Upper

228 100

226 32.2 25.4 38.0

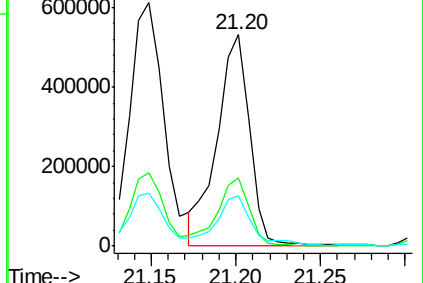
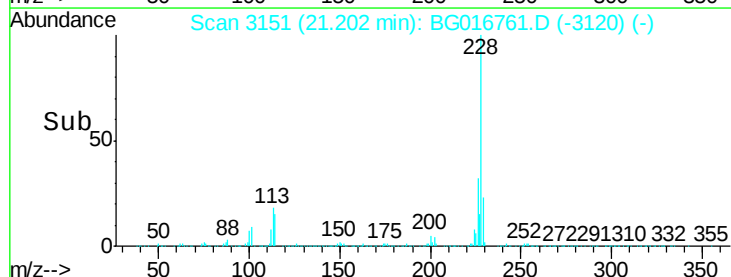
229 23.6 16.5 24.7

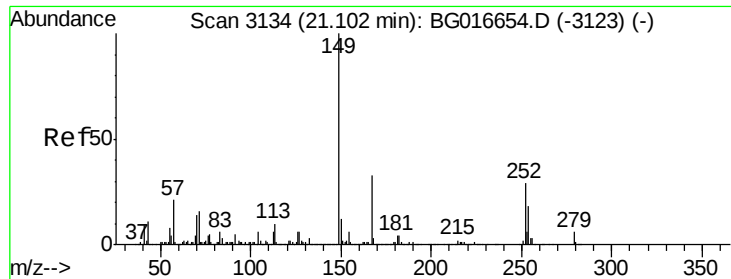


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

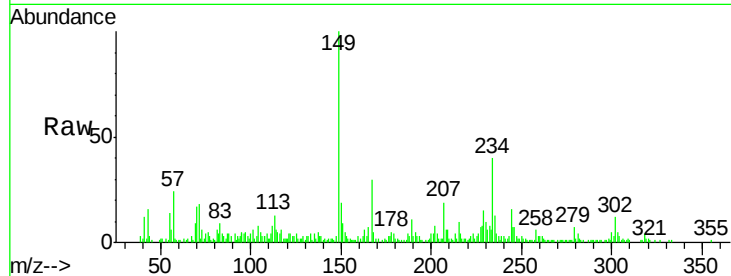




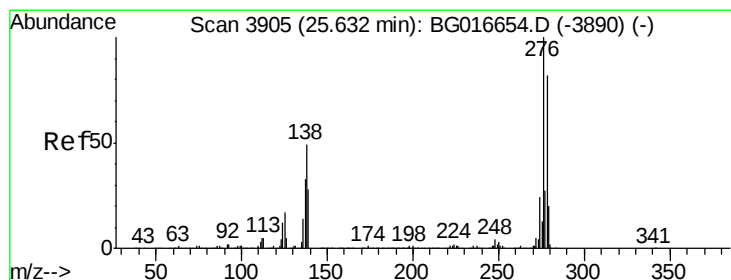
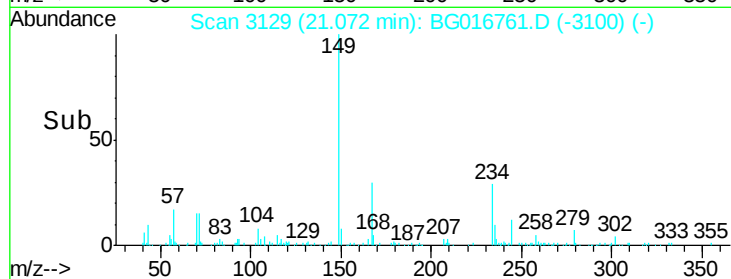
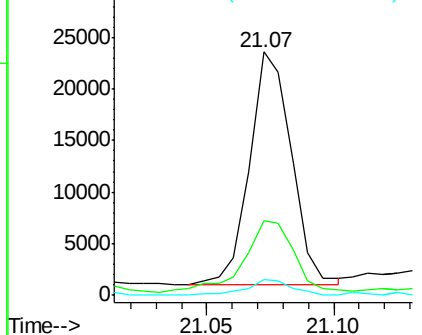
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.13 ng
 RT: 21.07 min Scan# 3129
 Delta R.T. -0.03 min
 Lab File: BG016761.D
 Acq: 28 Apr 2015 9:47

Instrument :
 BNA_G
 ClientSampleId :
 SB-73S

Tot Ion:149 Resp: 26051
 Ion Ratio Lower Upper
 149 100
 167 30.4 26.6 39.8
 279 6.5 5.1 7.7

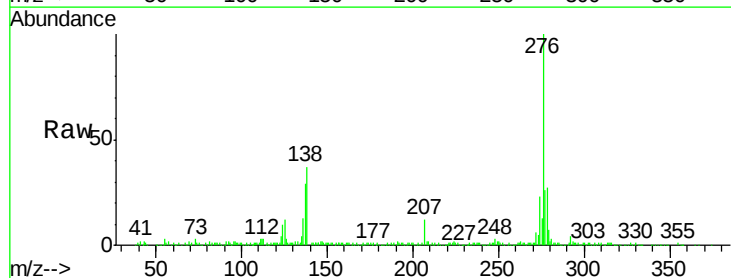


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

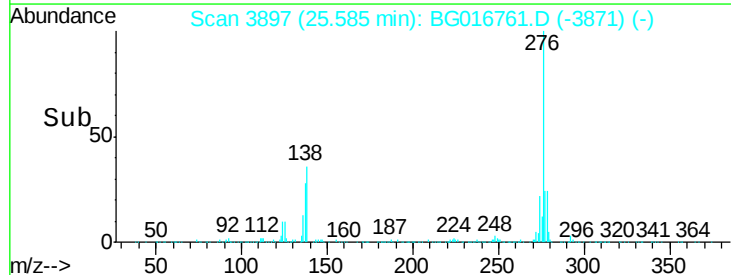
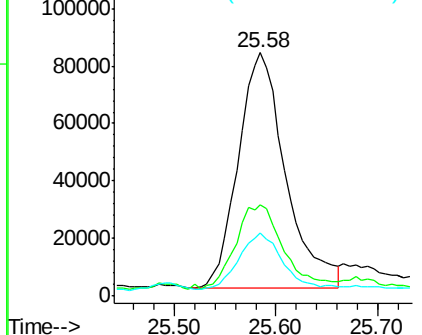


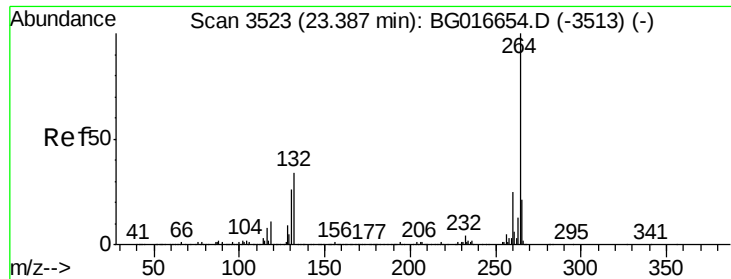
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 16.08 ng
 RT: 25.58 min Scan# 3897
 Delta R.T. -0.05 min
 Lab File: BG016761.D
 Acq: 28 Apr 2015 9:47

Tgt Ion:276 Resp: 264527
 Ion Ratio Lower Upper
 276 100
 138 36.3 38.2 57.2#
 277 22.4 21.4 32.2



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: 23.36 min Scan# 3518

Delta R.T. -0.03 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

Instrument :

BNA_G

ClientSampleId :

SB-73S

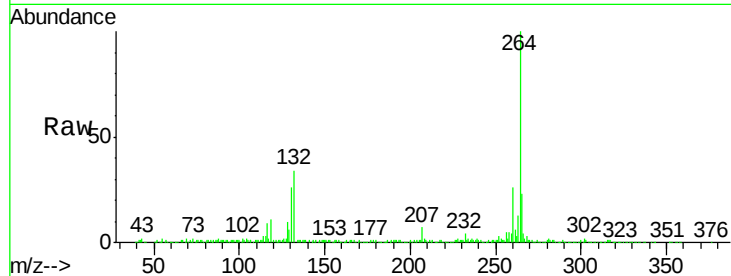
Tot Ion:264 Resp: 252839

Ion Ratio Lower Upper

264 100

260 26.1 20.0 30.0

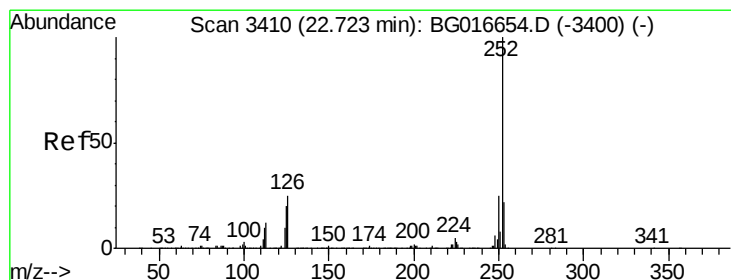
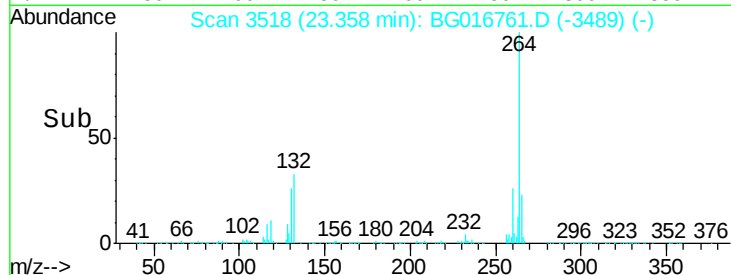
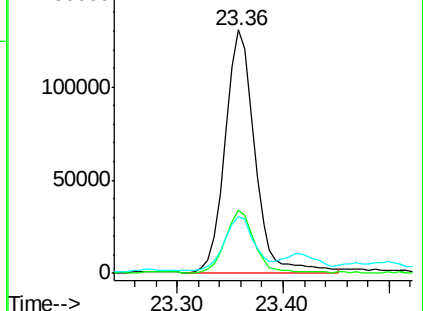
265 23.3 16.8 25.2



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 50.62 ng m

RT: 22.71 min Scan# 3407

Delta R.T. -0.02 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

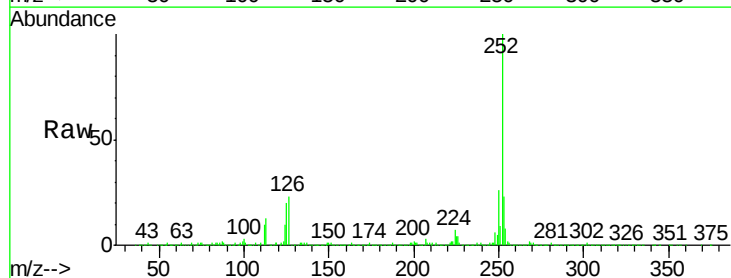
Tgt Ion:252 Resp: 777426

Ion Ratio Lower Upper

252 100

253 22.7 17.9 26.9

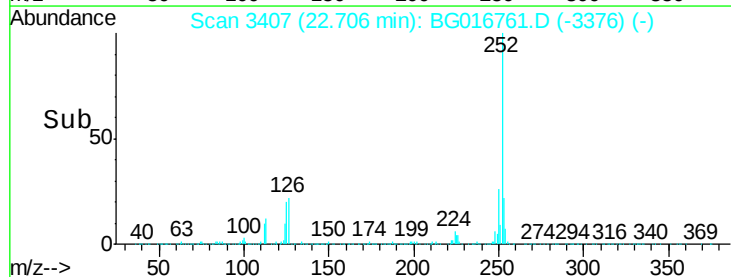
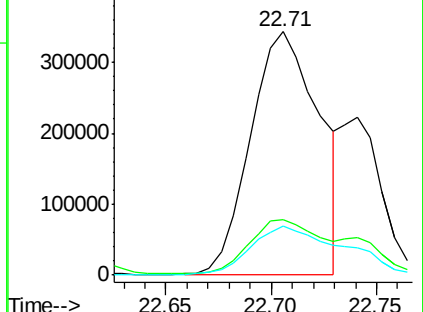
125 20.2 15.8 23.8

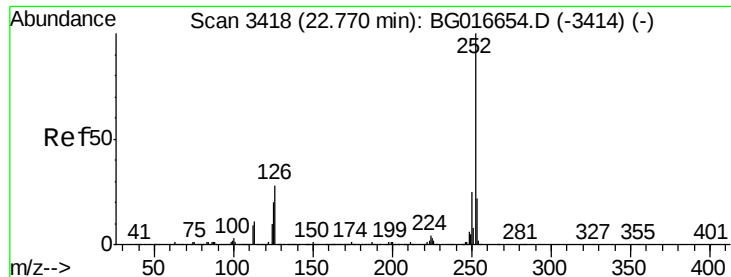


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

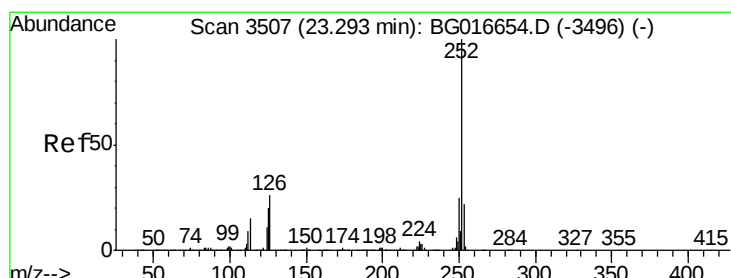
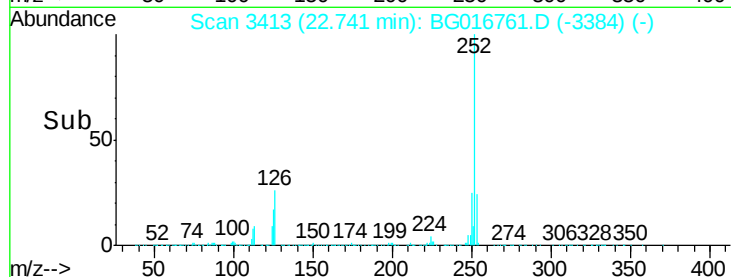
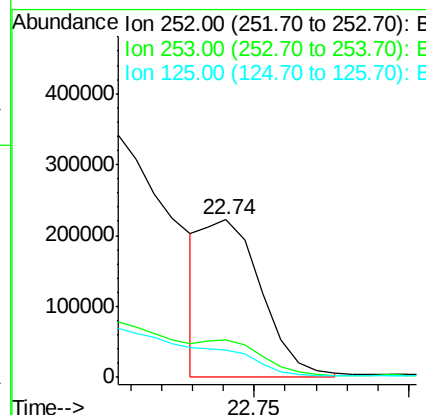
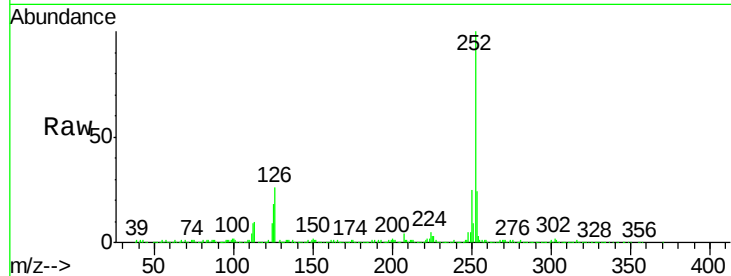




#88
Benzo(k)fluoranthene
Concen: 19.60 ng m
RT: 22.74 min Scan# 3413
Delta R.T. -0.03 min
Lab File: BG016761.D
Acq: 28 Apr 2015 9:47

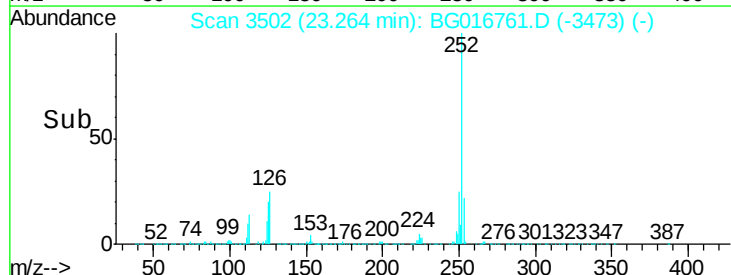
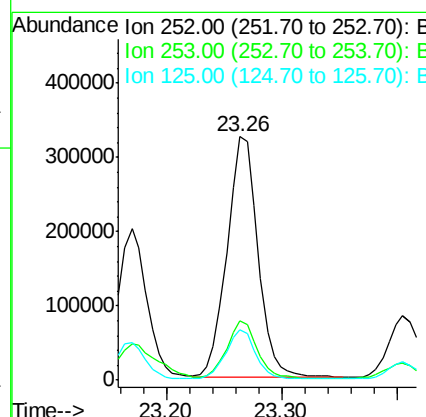
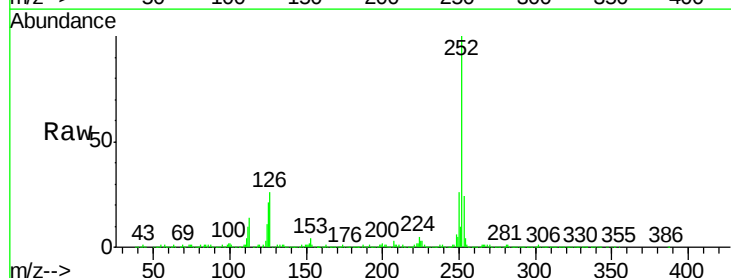
Instrument :
BNA_G
ClientSampleId :
SB-73S

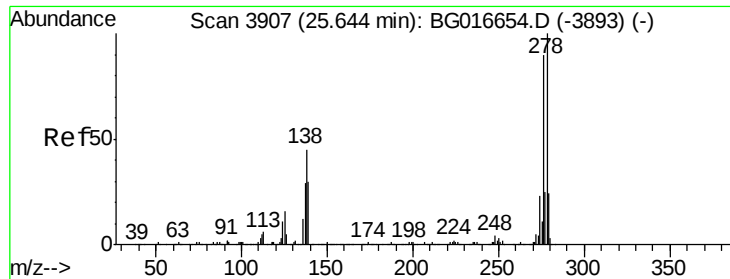
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.6	26.4
125	17.7	15.5	23.3



#89
Benzo(a)pyrene
Concen: 41.76 ng
RT: 23.26 min Scan# 3502
Delta R.T. -0.03 min
Lab File: BG016761.D
Acq: 28 Apr 2015 9:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.2	25.8
125	20.8	16.3	24.5





#90

Dibenzo(a,h)anthracene

Concen: 4.79 ng

RT: 25.58 min Scan# 3897

Delta R.T. -0.06 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

Instrument :

BNA_G

ClientSampleId :

SB-73S

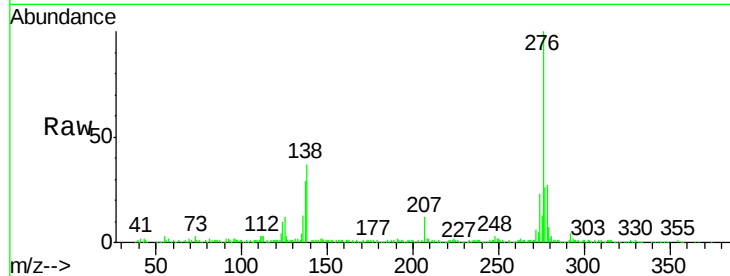
Tot Ion:278 Resp: 67388

Ion Ratio Lower Upper

278 100

139 0.0 24.2 36.2#

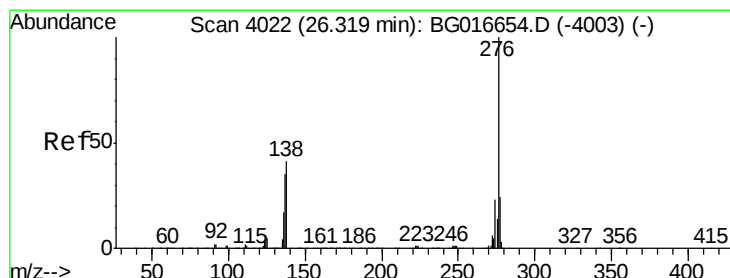
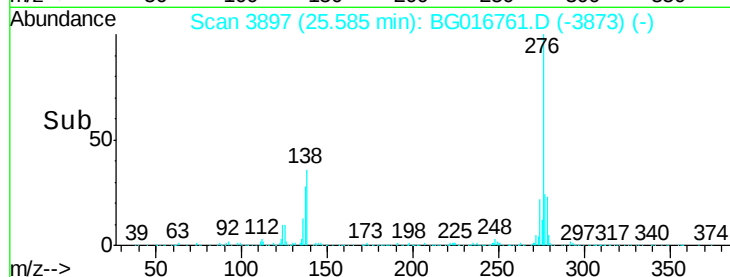
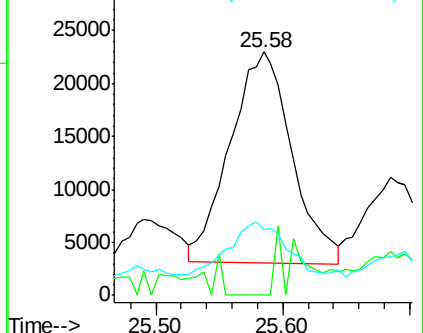
279 27.1 18.9 28.3



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: 17.58 ng

RT: 26.26 min Scan# 4012

Delta R.T. -0.06 min

Lab File: BG016761.D

Acq: 28 Apr 2015 9:47

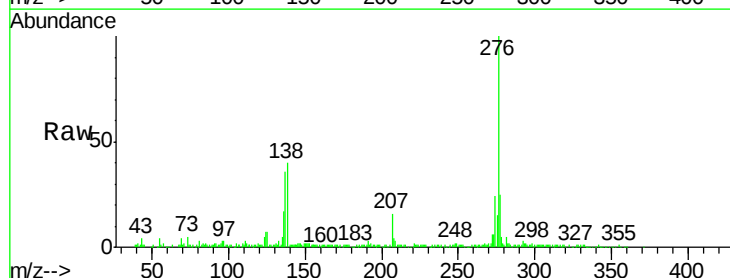
Tgt Ion:276 Resp: 251763

Ion Ratio Lower Upper

276 100

277 25.5 19.3 28.9

138 40.2 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

