

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG042915\
 Data File : BG016814.D
 Acq On : 30 Apr 2015 2:03
 Operator : TP/IZ
 Sample : G2022-06DL 50X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SB-02-COMPDL

Quant Time: Apr 30 03:30:44 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\8270-BG042915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 30 02:30:36 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.56	152	42199	20.00	ng	0.00
21) Naphthalene-d8	10.35	136	190741	20.00	ng	0.00
38) Acenaphthene-d10	14.22	164	118336	20.00	ng	0.00
63) Phenanthrene-d10	16.97	188	253613	20.00	ng	0.00
75) Chrysene-d12	21.16	240	227582	20.00	ng	0.00
86) Perylene-d12	23.35	264	214937	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.16	112	4784	2.09	ng	0.00
7) Phenol-d6	6.78	99	5822	1.81	ng	0.00
23) Nitrobenzene-d5	8.74	82	2672	0.91	ng	0.02
41) 2,4,6-Tribromophenol	15.73	330	1157	1.31	ng	0.00
44) 2-Fluorobiphenyl	12.84	172	9987	1.31	ng	0.00
78) Terphenyl-d14	19.60	244	14803	1.57	ng	0.00

Target Compounds

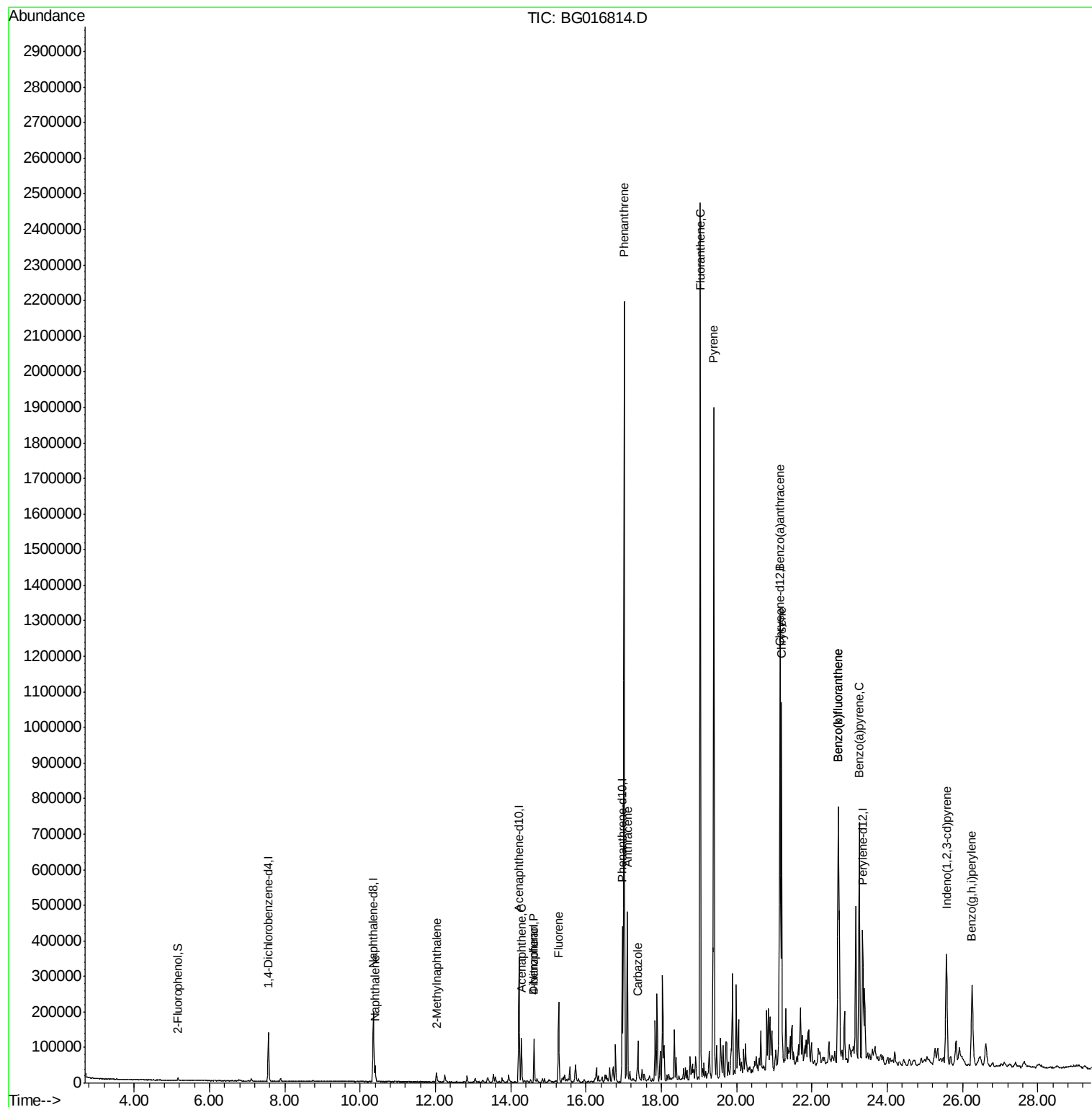
						Qvalue
31) Naphthalene	10.40	128	41215	4.33	ng	97
37) 2-Methylnaphthalene	12.02	142	17254	2.47	ng	95
51) Acenaphthene	14.29	154	47898	6.75	ng	99
54) Dibenzofuran	14.62	168	78445	7.76	ng	100
55) 4-Nitrophenol	14.62	139	27364	21.29	ng	# 22
57) Fluorene	15.27	166	103132	11.61	ng	98
70) Phenanthrene	17.01	178	1165848	84.99	ng	96
71) Anthracene	17.10	178	276514	20.16	ng	99
72) Carbazole	17.38	167	70998	5.29	ng	97
74) Fluoranthene	19.04	202	1311151	88.90	ng	96
77) Pyrene	19.40	202	1066944	71.71	ng	97
80) Benzo(a)anthracene	21.14	228	536914	40.84	ng	100
82) Chrysene	21.20	228	463738	37.30	ng	98
85) Indeno(1,2,3-cd)pyrene	25.57	276	229835	16.24	ng	93
87) Benzo(b)fluoranthene	22.70	252	532085	43.48	ng	98
88) Benzo(k)fluoranthene	22.70	252	532085	44.40	ng	99
89) Benzo(a)pyrene	23.26	252	380992	32.88	ng	96
91) Benzo(g,h,i)perylene	26.25	276	209872	17.86	ng	97

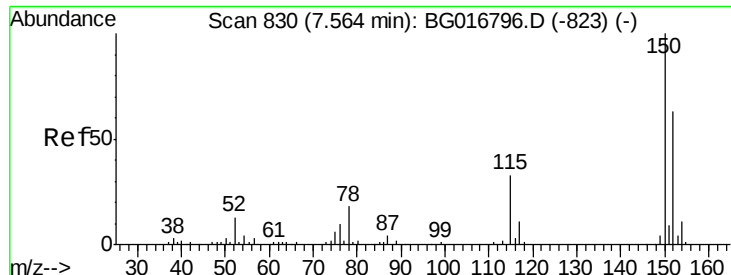
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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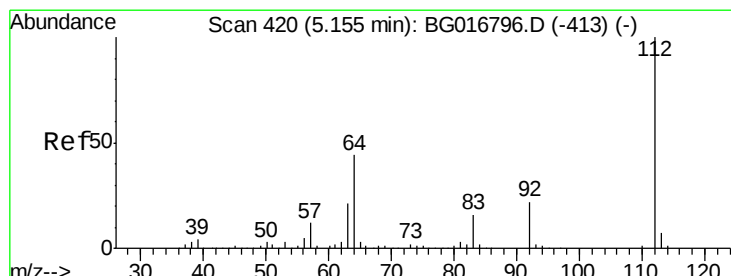
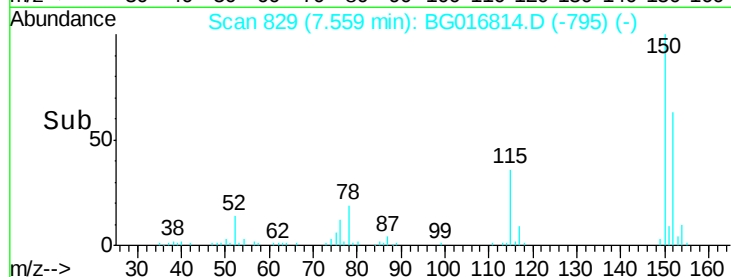
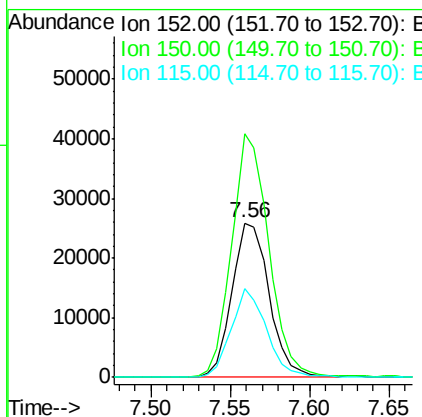
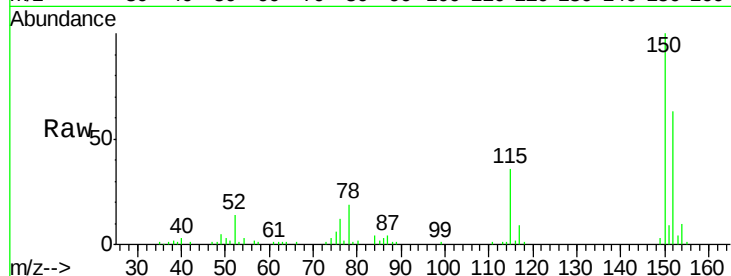




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.56 min Scan# 829
 Delta R.T. -0.00 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

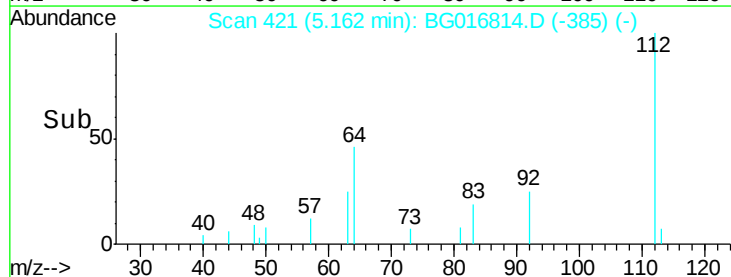
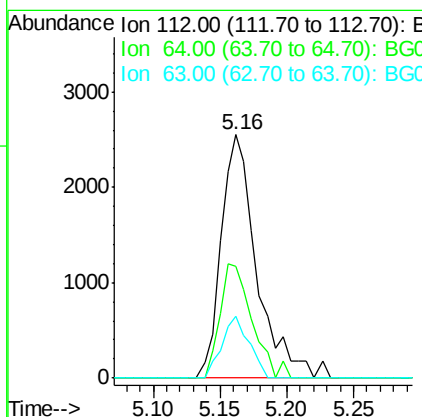
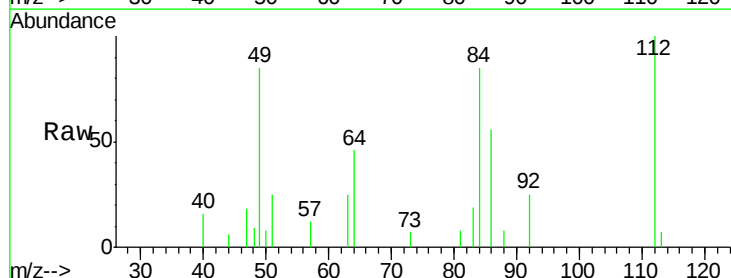
Instrument :
 BNA_G
 ClientSampleId :
 SB-02-COMPDL

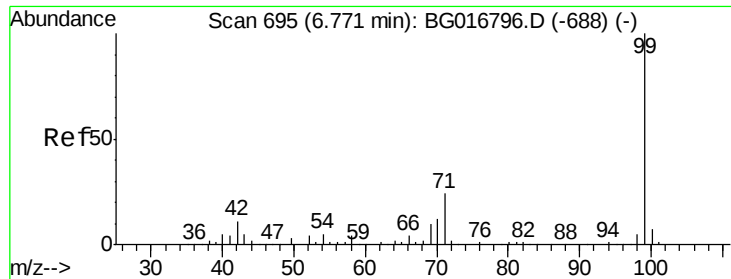
Tgt Ion:152 Resp: 42199
 Ion Ratio Lower Upper
 152 100
 150 157.9 126.2 189.4
 115 57.5 41.1 61.7



#5
 2-Fluorophenol
 Concen: 2.09 ng
 RT: 5.16 min Scan# 421
 Delta R.T. 0.01 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

Tgt Ion:112 Resp: 4784
 Ion Ratio Lower Upper
 112 100
 64 46.0 35.5 53.3
 63 25.4 17.2 25.8





#7

Phenol-d6

Concen: 1.81 ng

RT: 6.78 min Scan# 696

Delta R.T. 0.01 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

Instrument :

BNA_G

ClientSampleId :

SB-02-COMPDL

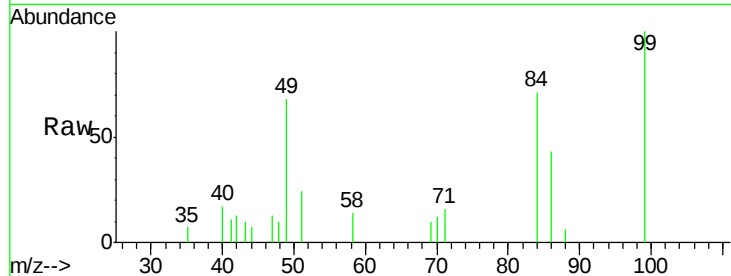
Tgt Ion: 99 Resp: 5822

Ion Ratio Lower Upper

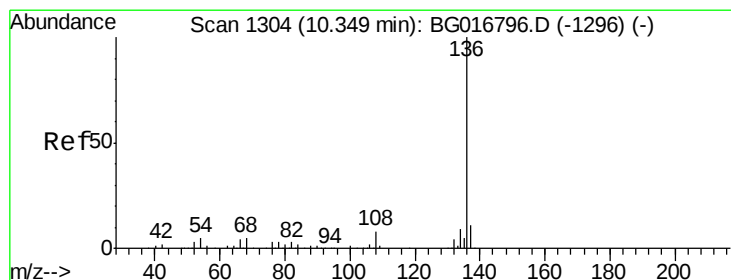
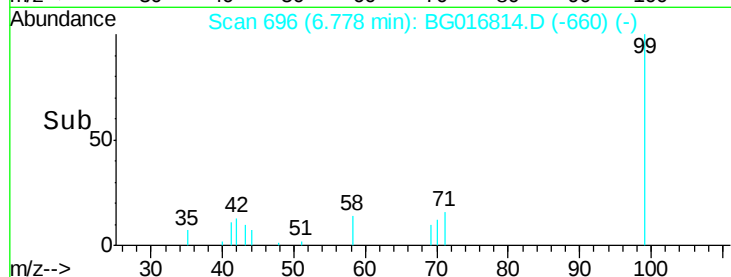
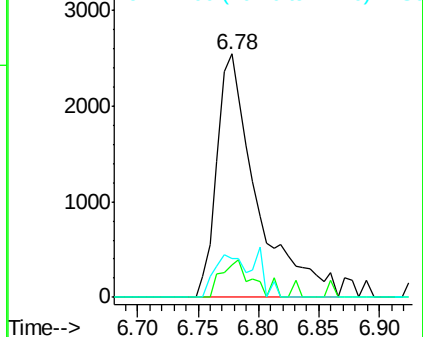
99 100

42 13.1 8.9 13.3

71 15.8 19.0 28.6#



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: BG016814.D

Acq: 30 Apr 2015 2:03

Tgt Ion: 136 Resp: 190741

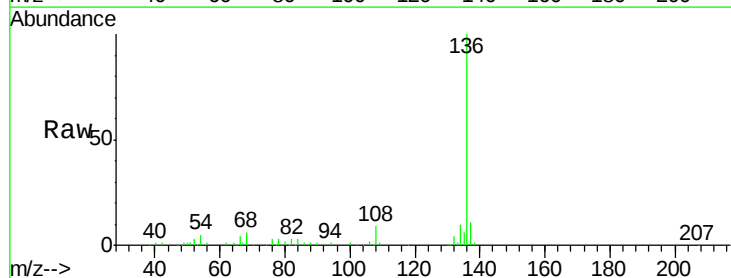
Ion Ratio Lower Upper

136 100

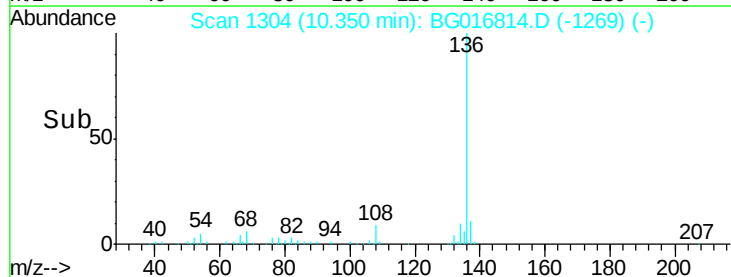
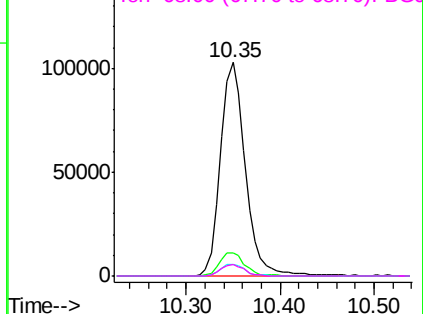
137 10.8 8.6 12.8

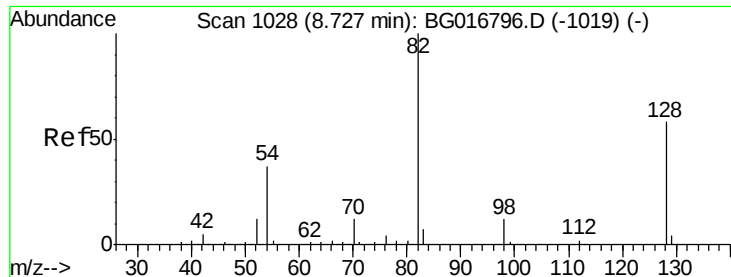
54 5.2 4.3 6.5

68 5.5 4.3 6.5



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

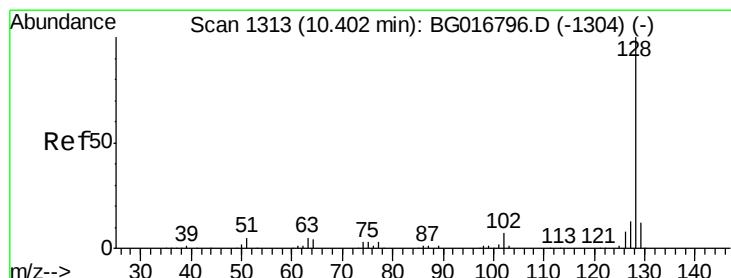
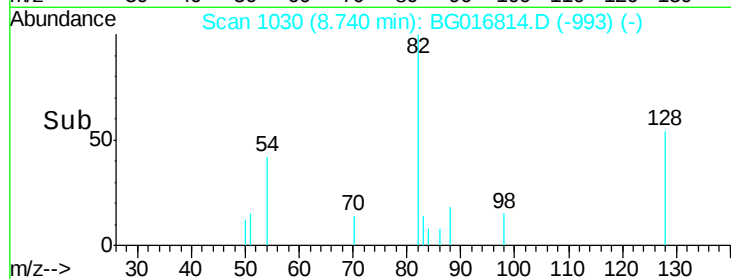
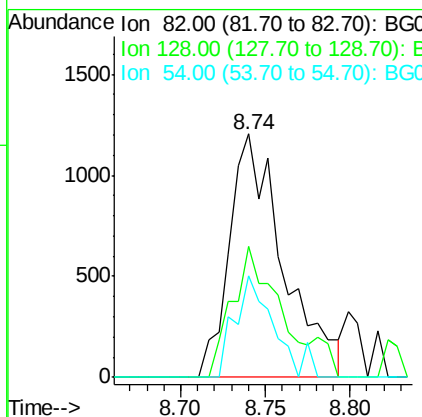
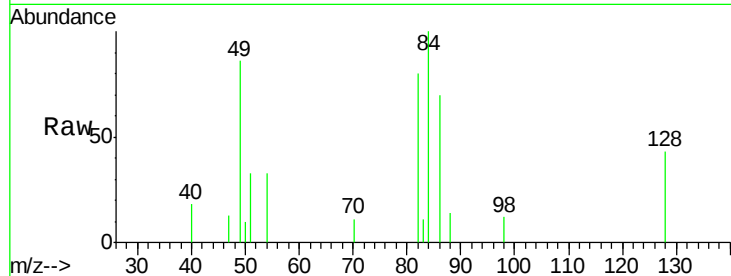




#23
 Nitrobenzene-d5
 Concen: 0.91 ng
 RT: 8.74 min Scan# 1030
 Delta R.T. 0.02 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

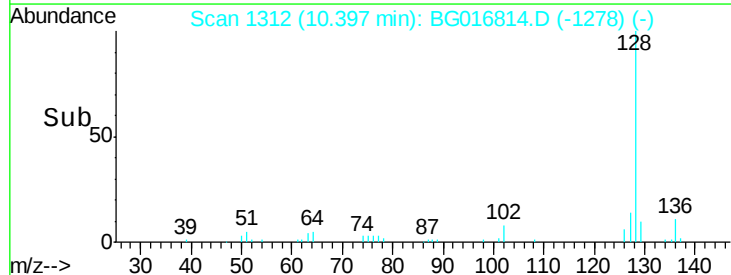
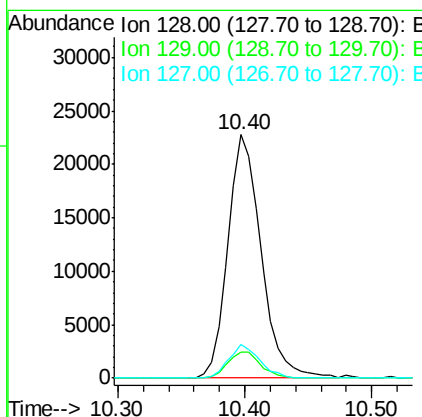
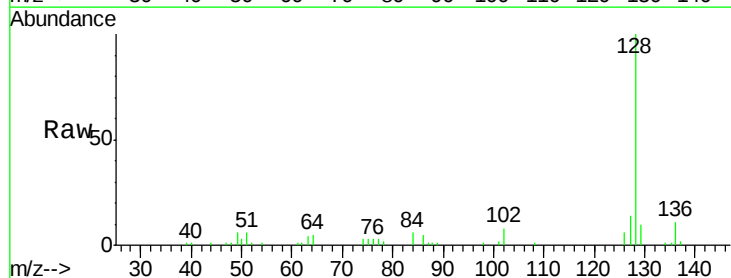
Instrument :
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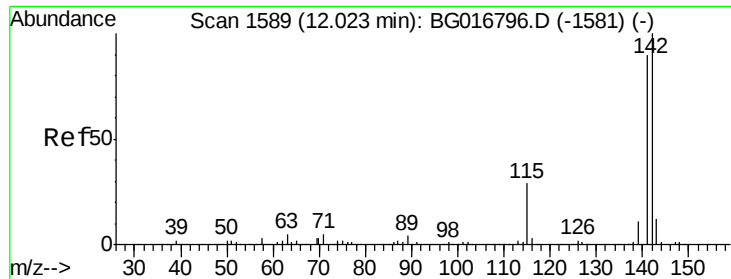
Tgt Ion: 82 Resp: 2672
 Ion Ratio Lower Upper
 82 100
 128 53.7 46.3 69.5
 54 42.0 30.0 45.0



#31
 Naphthalene
 Concen: 4.33 ng
 RT: 10.40 min Scan# 1312
 Delta R.T. -0.00 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

Tgt Ion: 128 Resp: 41215
 Ion Ratio Lower Upper
 128 100
 129 10.4 9.4 14.0
 127 13.9 10.5 15.7

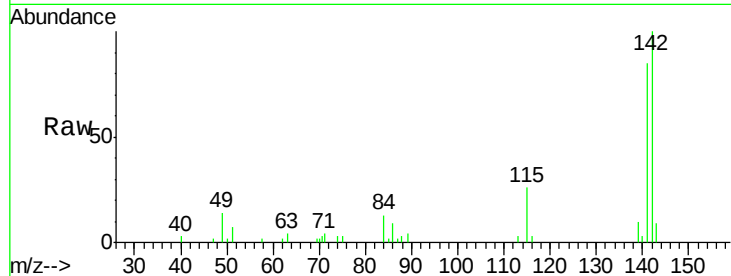




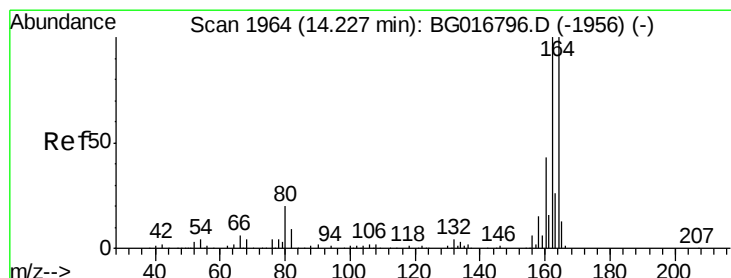
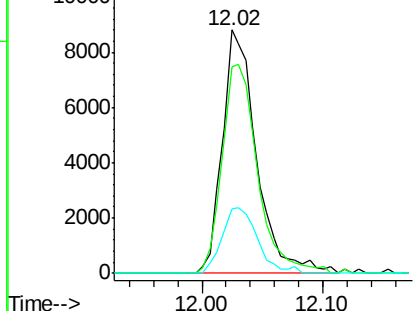
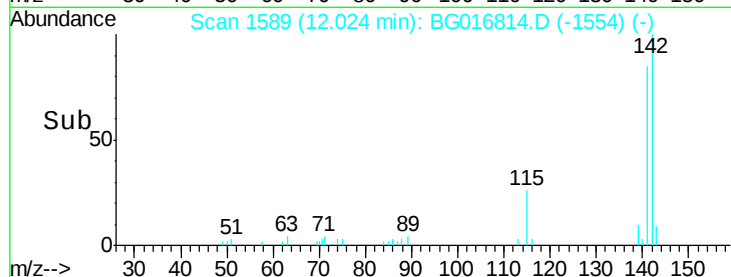
#37
 2-Methylnaphthalene
 Concen: 2.47 ng
 RT: 12.02 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

Instrument :
 BNA_G
 ClientSampleId :
 SB-02-COMPDL

Tgt Ion:142 Resp: 17254
 Ion Ratio Lower Upper
 142 100
 141 84.8 71.8 107.8
 115 26.3 23.5 35.3

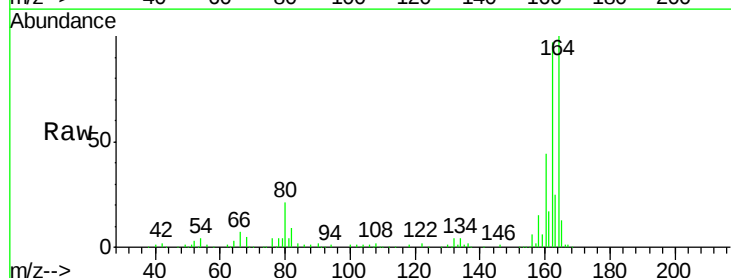


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

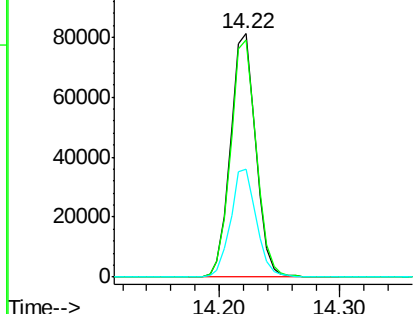
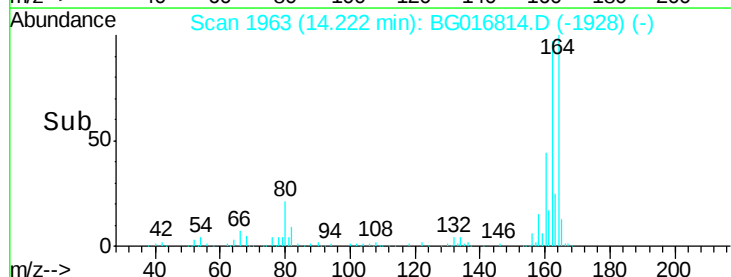


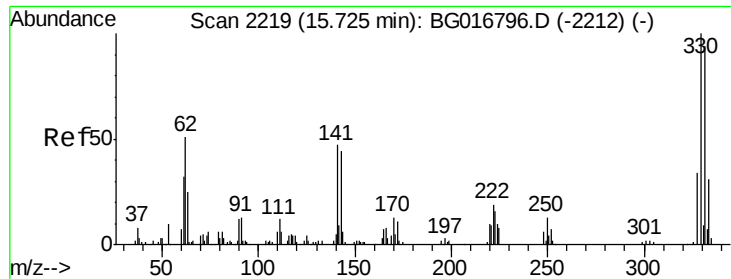
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 14.22 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

Tgt Ion:164 Resp: 118336
 Ion Ratio Lower Upper
 164 100
 162 97.4 80.2 120.4
 160 44.4 34.8 52.2



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

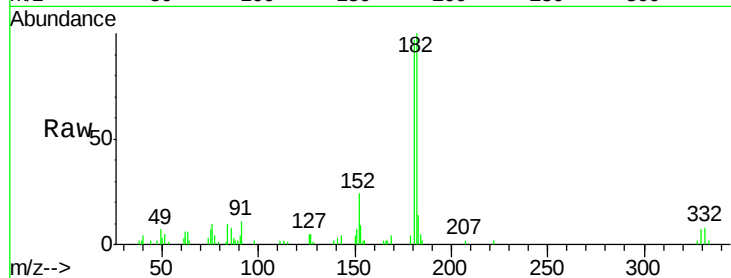




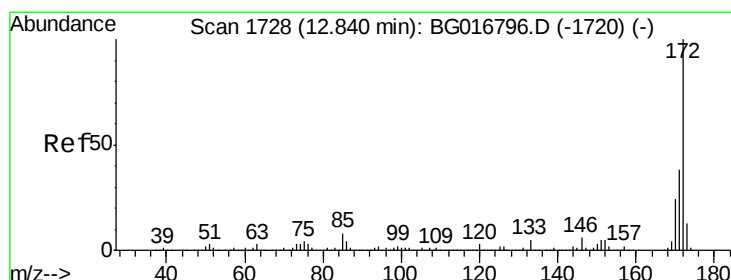
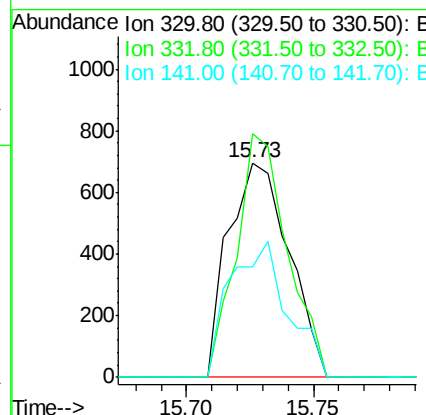
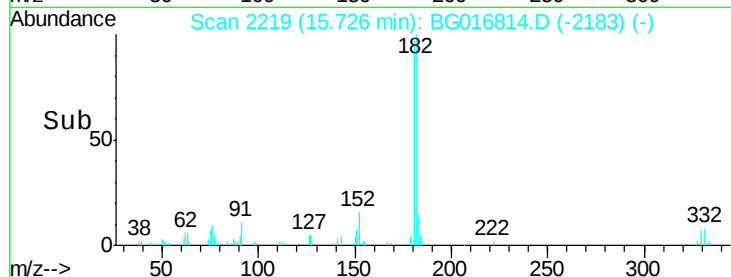
#41
 2,4,6-Tribromophenol
 Concen: 1.31 ng
 RT: 15.73 min Scan# 2219
 Delta R.T. 0.01 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

Instrument :
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 ClientSampleId :
 SB-02-COMPDL

Tgt Ion: 330 Resp: 1157
 Ion Ratio Lower Upper
 330 100
 332 95.2 75.3 112.9
 141 60.3 40.7 61.1

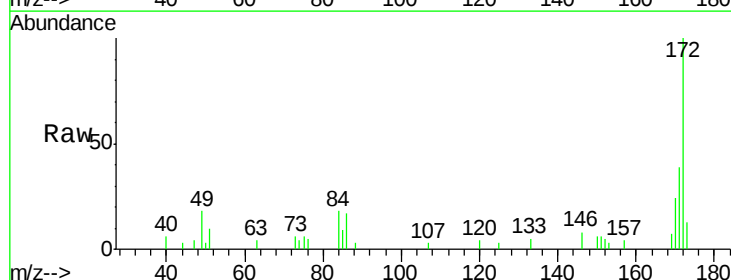


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

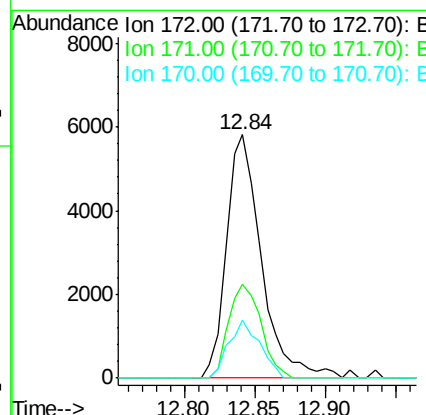
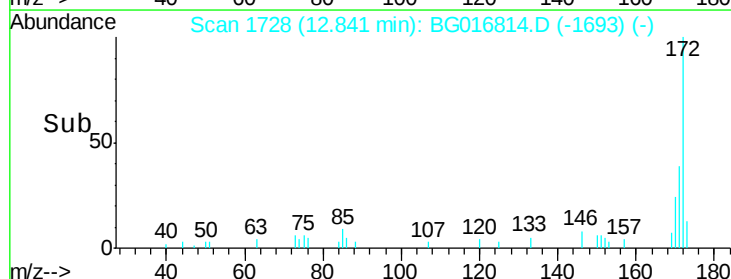


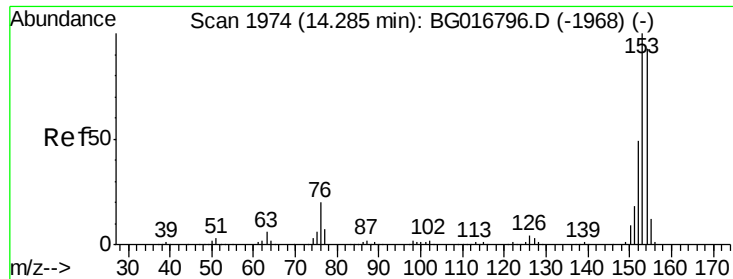
#44
 2-Fluorobiphenyl
 Concen: 1.31 ng
 RT: 12.84 min Scan# 1728
 Delta R.T. 0.00 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

Tgt Ion: 172 Resp: 9987
 Ion Ratio Lower Upper
 172 100
 171 38.6 30.2 45.4
 170 23.6 19.4 29.0



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





#51

Acenaphthene

Concen: 6.75 ng

RT: 14.29 min Scan# 1974

Delta R.T. 0.00 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

Instrument :

BNA_G

ClientSampleId :

SB-02-COMPDL

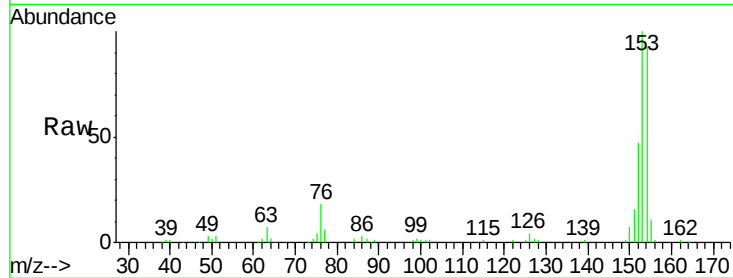
Tgt Ion:154 Resp: 47898

Ion Ratio Lower Upper

154 100

153 108.1 86.4 129.6

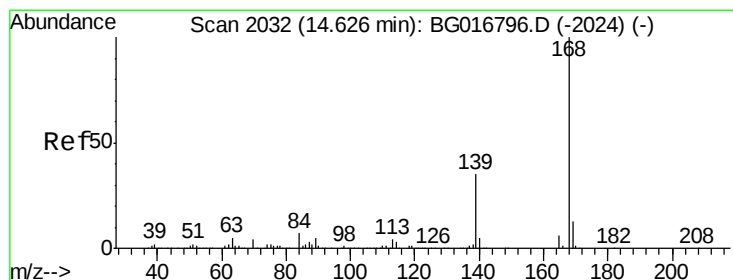
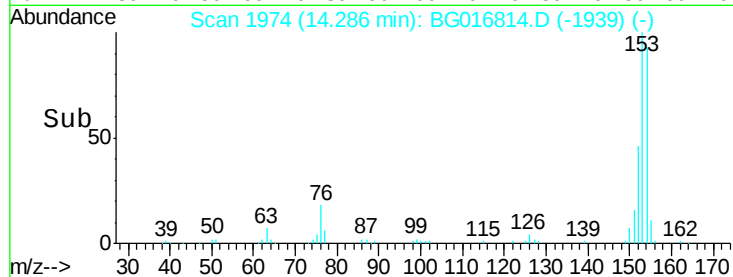
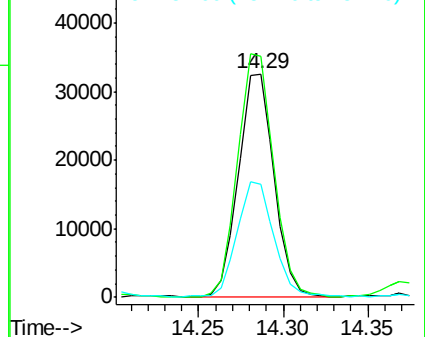
152 50.7 41.9 62.9



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: 7.76 ng

RT: 14.62 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

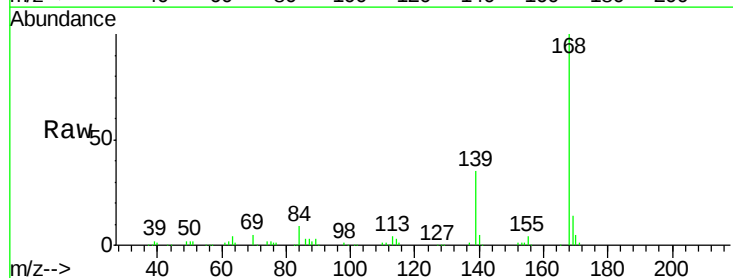
Tgt Ion:168 Resp: 78445

Ion Ratio Lower Upper

168 100

139 35.1 28.1 42.1

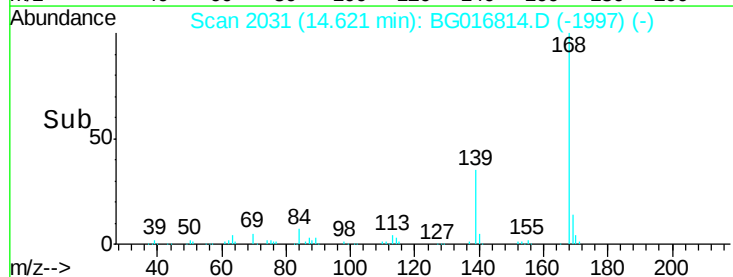
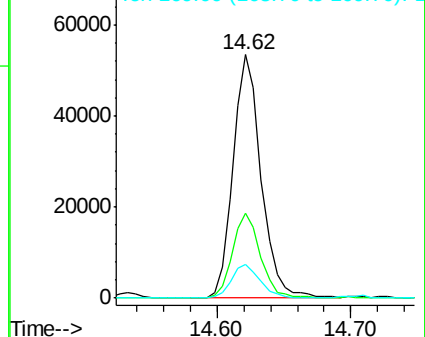
169 13.9 10.7 16.1

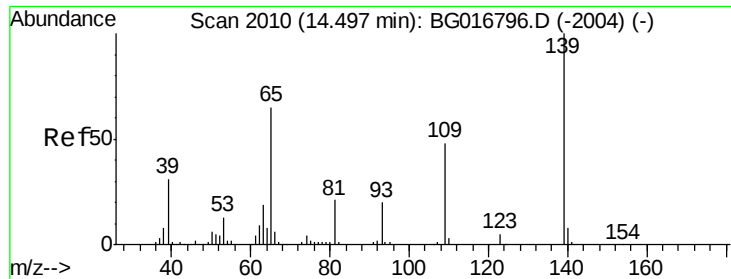


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

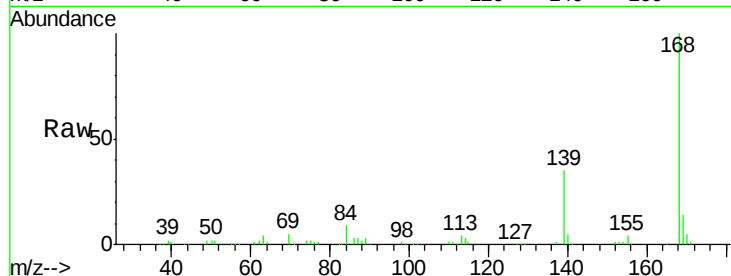




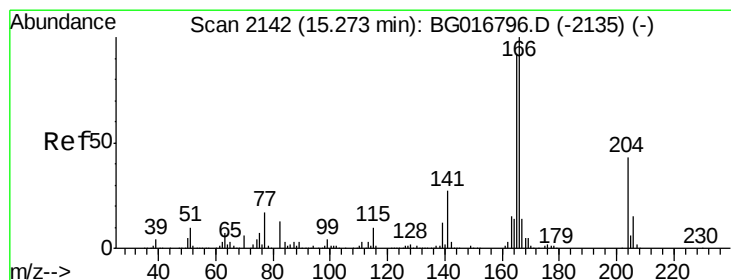
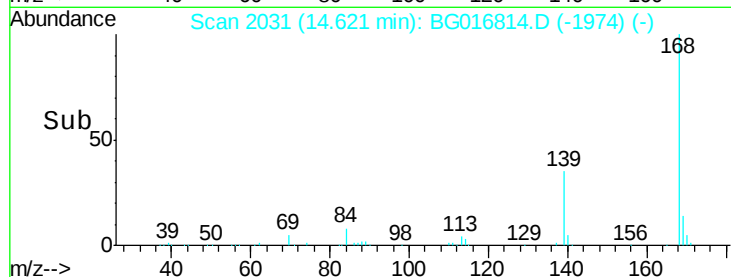
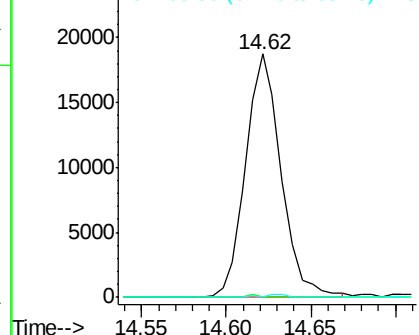
#55
4-Nitrophenol
Concen: 21.29 ng
RT: 14.62 min Scan# 2031
Delta R.T. 0.13 min
Lab File: BG016814.D
Acq: 30 Apr 2015 2:03

Instrument :
BNA_G
ClientSampleId :
SB-02-COMPDL

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	27.8	67.8#
65	0.0	45.4	85.4#

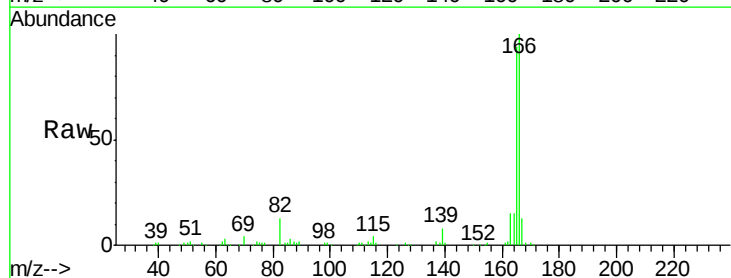


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): B

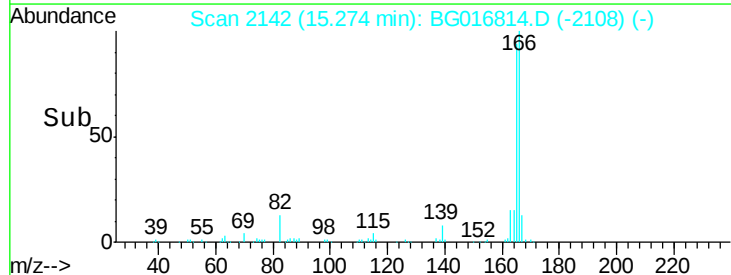
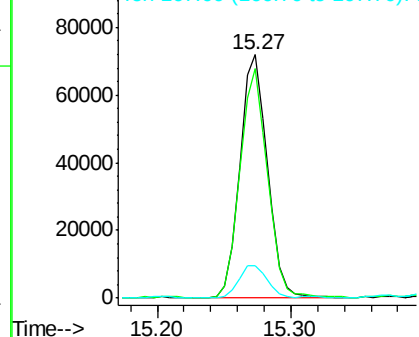


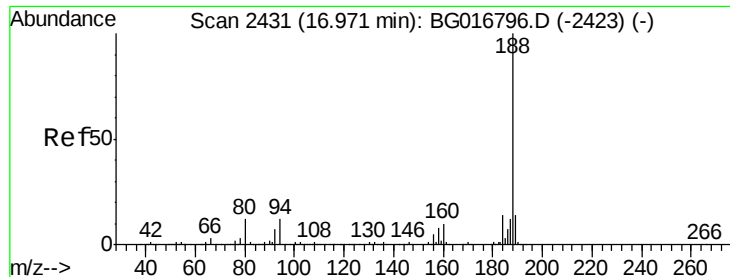
#57
Fluorene
Concen: 11.61 ng
RT: 15.27 min Scan# 2142
Delta R.T. -0.00 min
Lab File: BG016814.D
Acq: 30 Apr 2015 2:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	94.3	73.5	110.3
167	13.4	10.8	16.2



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

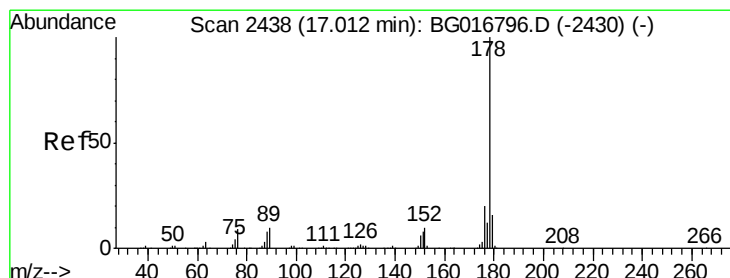
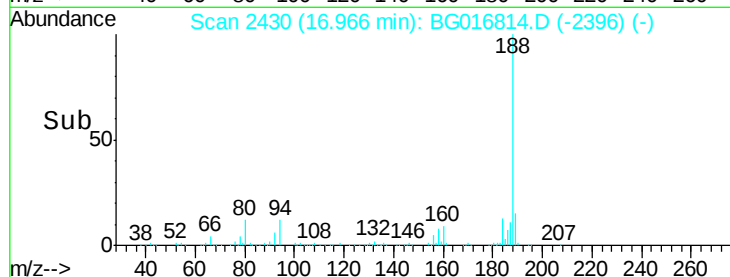
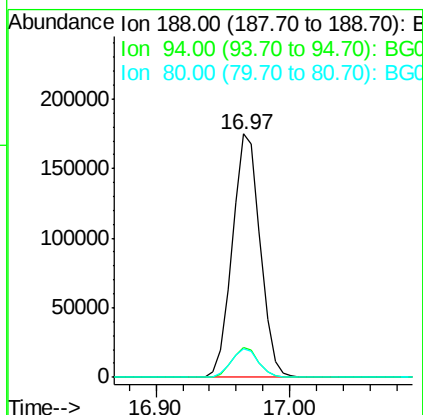
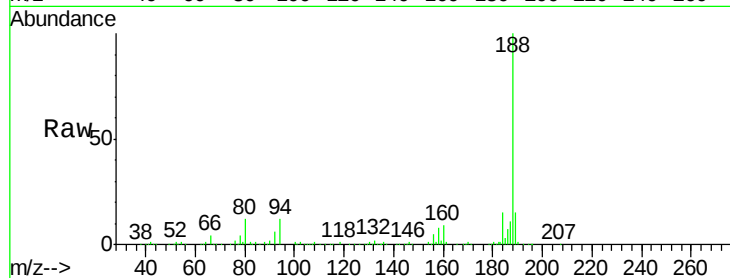




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 16.97 min Scan# 2430
Delta R.T. -0.00 min
Lab File: BG016814.D
Acq: 30 Apr 2015 2:03

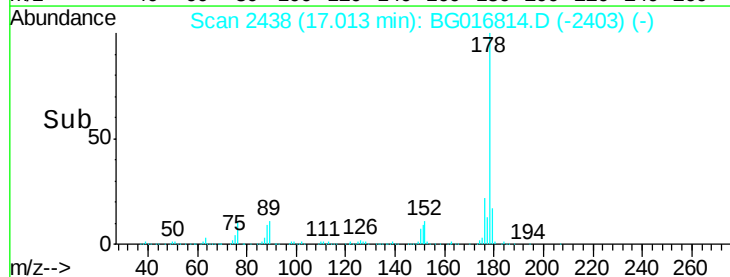
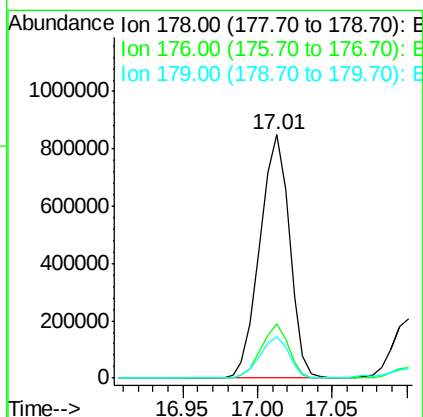
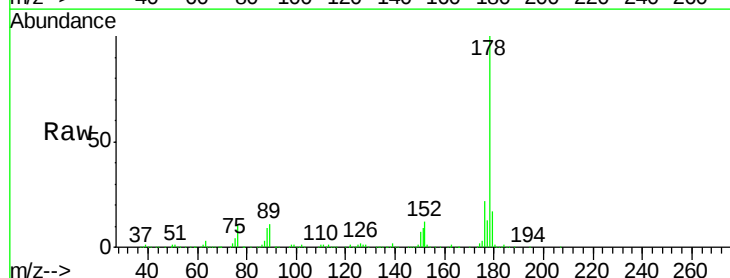
Instrument :
BNA_G
ClientSampleId :
SB-02-COMPDL

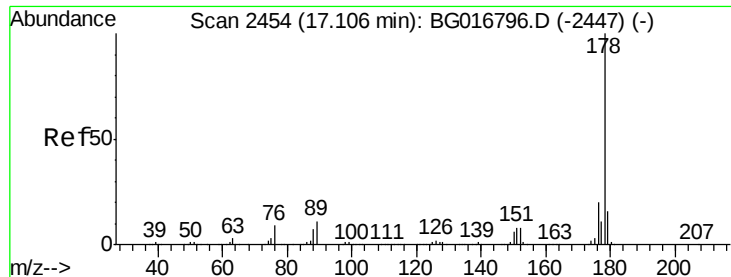
Tgt Ion:188 Resp: 253613
Ion Ratio Lower Upper
188 100
94 12.0 9.5 14.3
80 11.9 9.2 13.8



#70
Phenanthrene
Concen: 84.99 ng
RT: 17.01 min Scan# 2438
Delta R.T. 0.00 min
Lab File: BG016814.D
Acq: 30 Apr 2015 2:03

Tgt Ion:178 Resp: 1165848
Ion Ratio Lower Upper
178 100
176 22.2 15.9 23.9
179 17.0 12.7 19.1

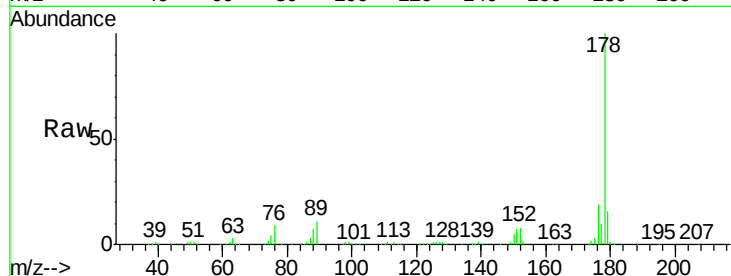




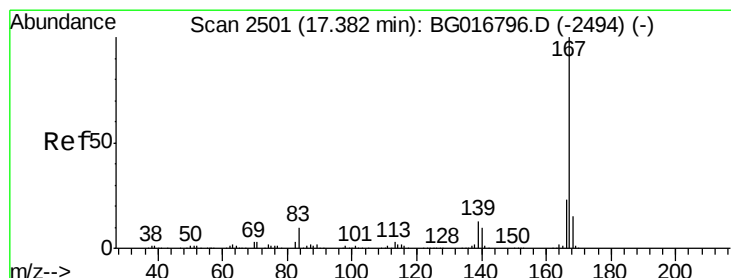
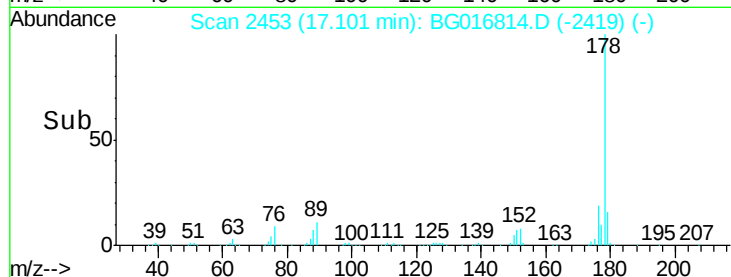
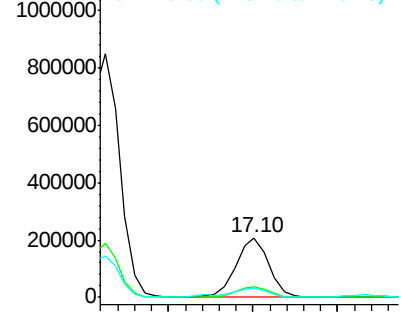
#71
 Anthracene
 Concen: 20.16 ng
 RT: 17.10 min Scan# 2453
 Delta R.T. -0.00 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

Instrument :
 BNA_G
 ClientSampleId :
 SB-02-COMPDL

Tgt Ion:178 Resp: 276514
 Ion Ratio Lower Upper
 178 100
 176 18.9 16.0 24.0
 179 15.6 12.6 18.8

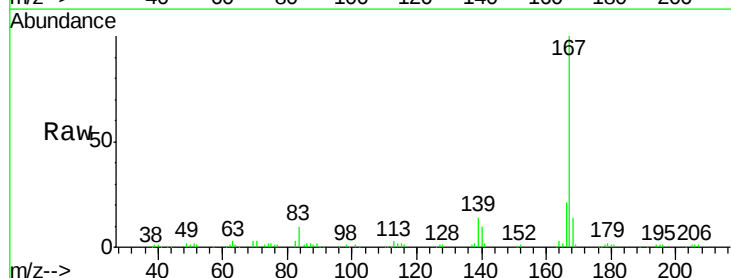


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

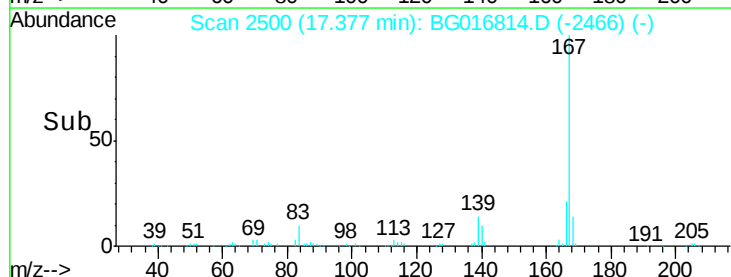
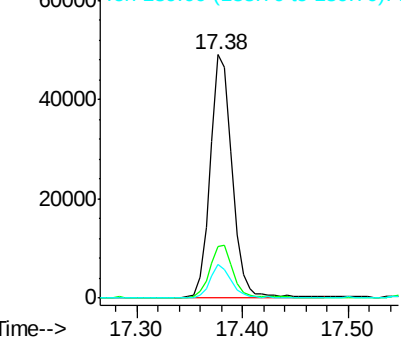


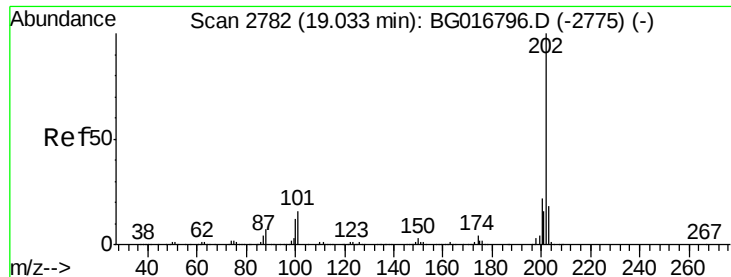
#72
 Carbazole
 Concen: 5.29 ng
 RT: 17.38 min Scan# 2500
 Delta R.T. -0.00 min
 Lab File: BG016814.D
 Acq: 30 Apr 2015 2:03

Tgt Ion:167 Resp: 70998
 Ion Ratio Lower Upper
 167 100
 166 21.4 18.2 27.4
 139 14.0 10.6 15.8



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 88.90 ng

RT: 19.04 min Scan# 2783

Delta R.T. 0.01 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

Instrument :

BNA_G

ClientSampleId :

SB-02-COMPDL

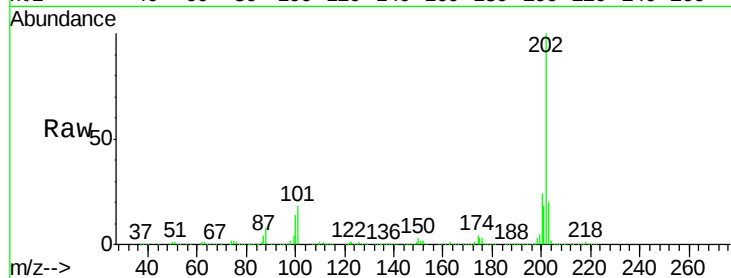
Tgt Ion:202 Resp: 1311151

Ion Ratio Lower Upper

202 100

101 17.6 0.0 36.2

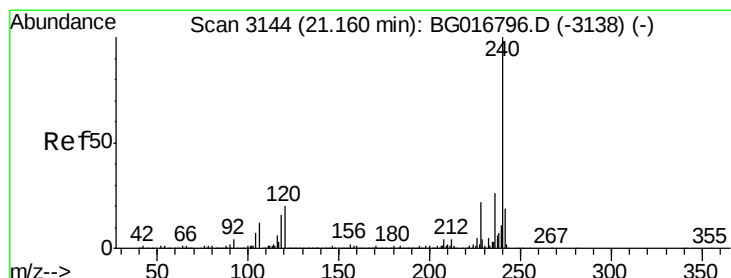
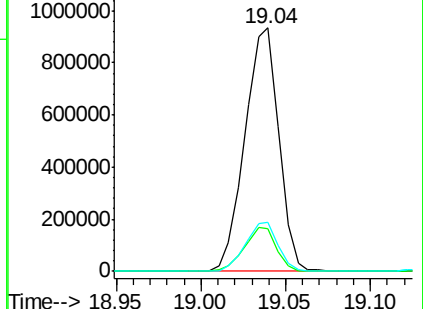
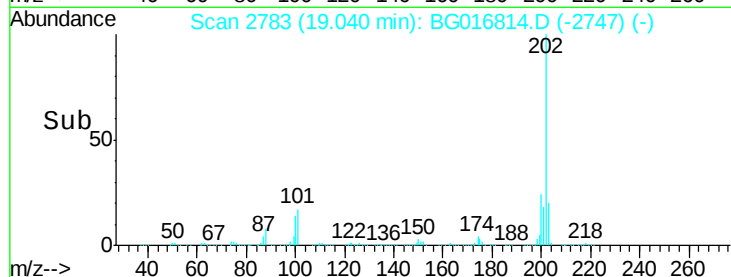
203 20.0 0.0 37.6



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: BG016814.D

Acq: 30 Apr 2015 2:03

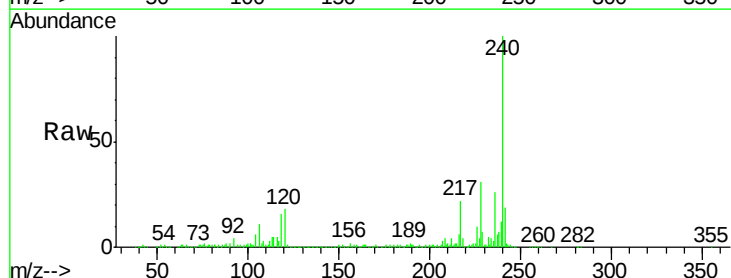
Tgt Ion:240 Resp: 227582

Ion Ratio Lower Upper

240 100

120 18.1 16.1 24.1

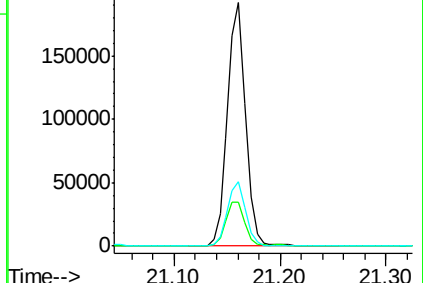
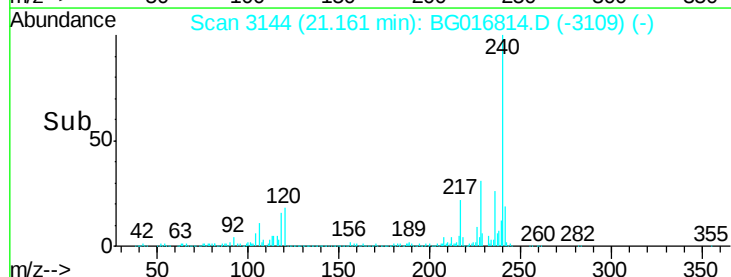
236 26.4 21.0 31.6

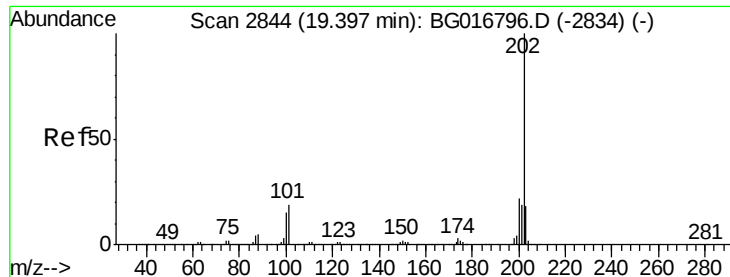


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 71.71 ng

RT: 19.40 min Scan# 2844

Delta R.T. 0.00 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

Instrument :

BNA_G

ClientSampleId :

SB-02-COMPDL

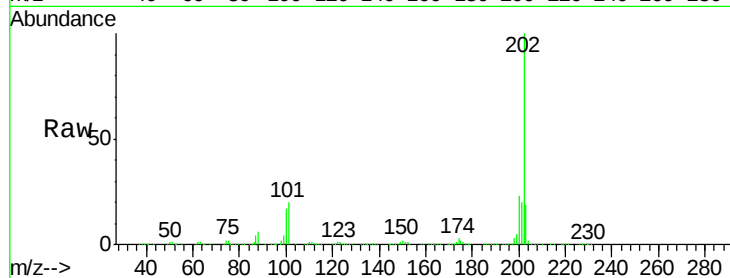
Tgt Ion:202 Resp: 1066944

Ion Ratio Lower Upper

202 100

200 23.1 17.3 25.9

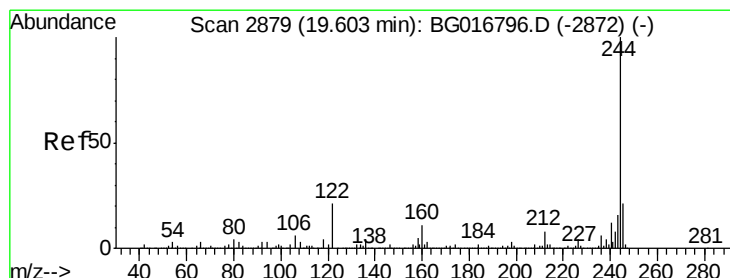
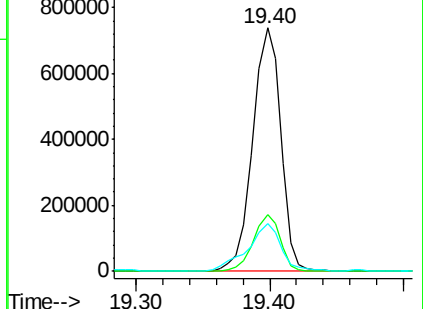
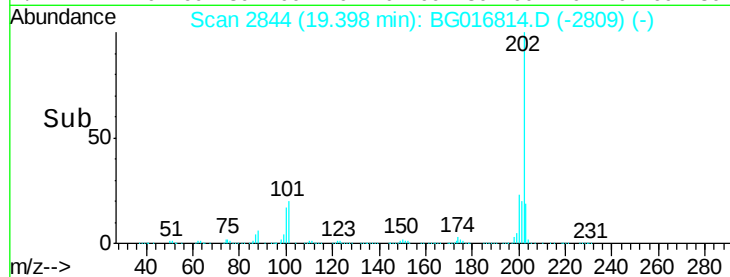
203 19.4 14.6 22.0



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: 1.57 ng

RT: 19.60 min Scan# 2878

Delta R.T. -0.01 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

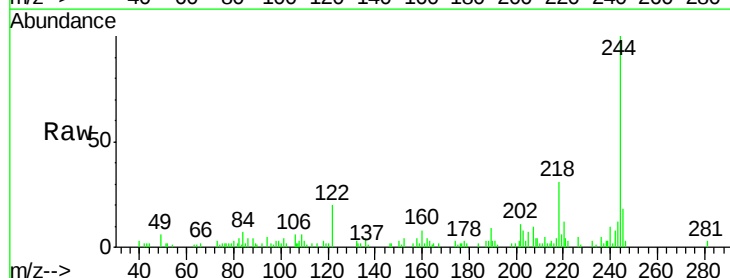
Tgt Ion:244 Resp: 14803

Ion Ratio Lower Upper

244 100

212 5.2 6.4 9.6#

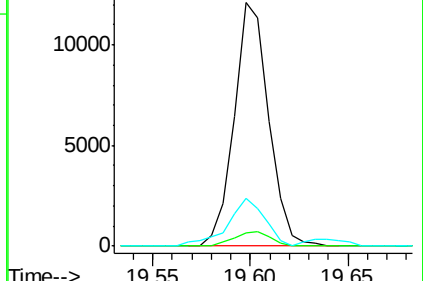
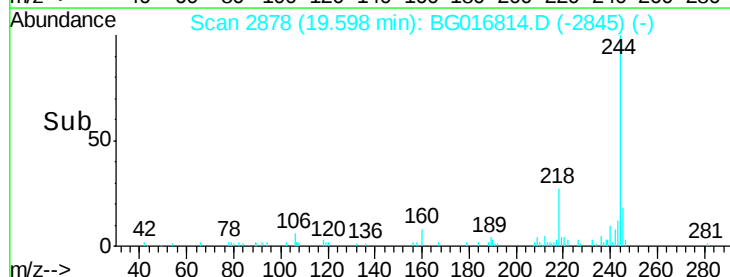
122 19.9 16.4 24.6

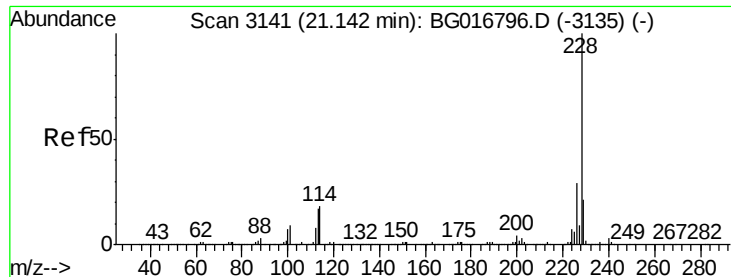


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

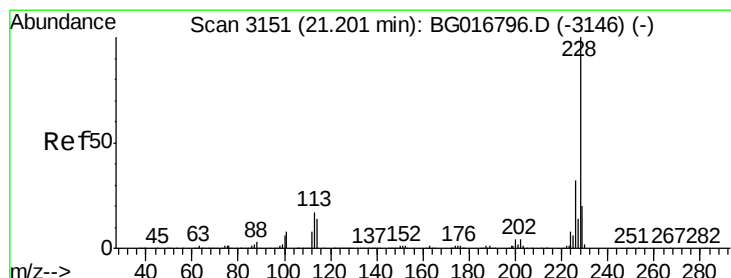
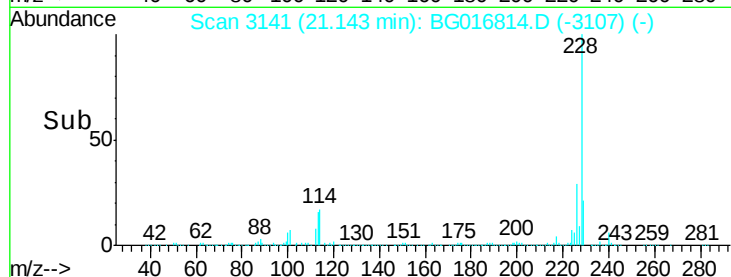
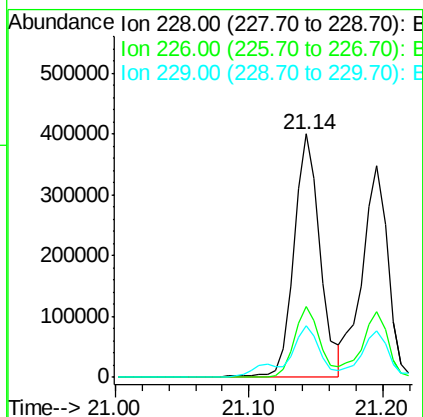
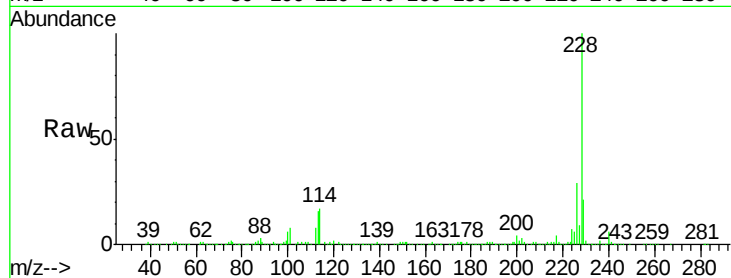




#80
Benzo(a)anthracene
Concen: 40.84 ng
RT: 21.14 min Scan# 3141
Delta R.T. -0.00 min
Lab File: BG016814.D
Acq: 30 Apr 2015 2:03

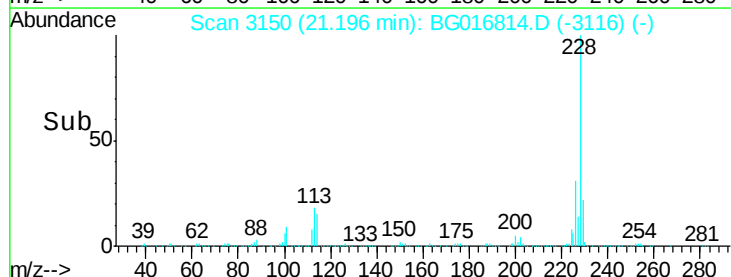
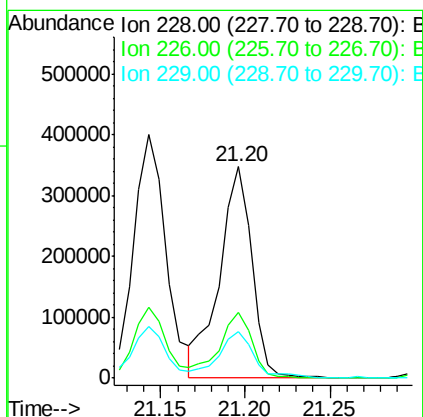
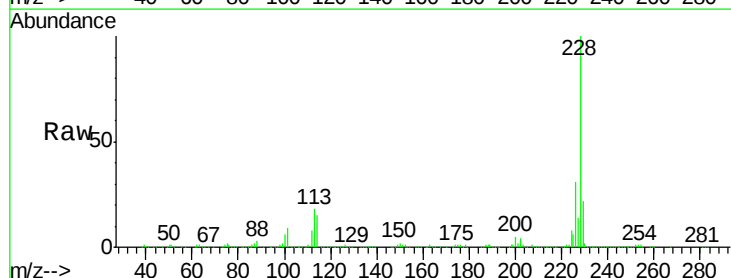
Instrument :
BNA_G
ClientSampleId :
SB-02-COMPDL

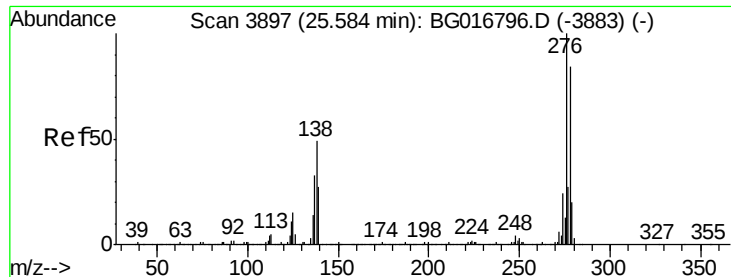
Tgt Ion: 228 Resp: 536914
Ion Ratio Lower Upper
228 100
226 29.3 23.4 35.0
229 21.1 17.0 25.6



#82
Chrysene
Concen: 37.30 ng
RT: 21.20 min Scan# 3150
Delta R.T. -0.00 min
Lab File: BG016814.D
Acq: 30 Apr 2015 2:03

Tgt Ion: 228 Resp: 463738
Ion Ratio Lower Upper
228 100
226 31.3 25.1 37.7
229 22.3 16.1 24.1

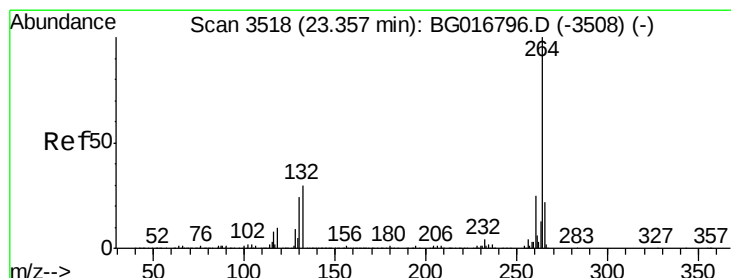
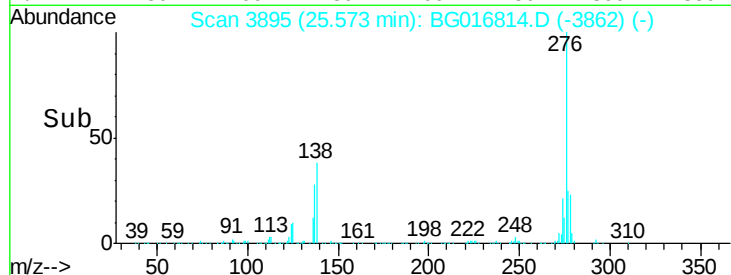
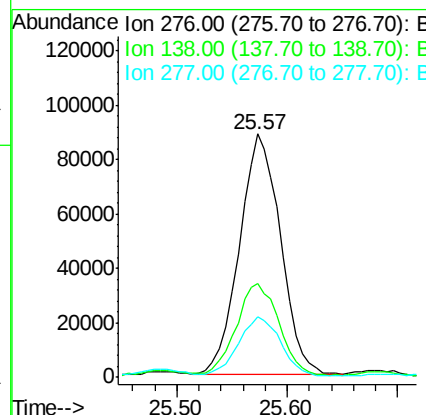
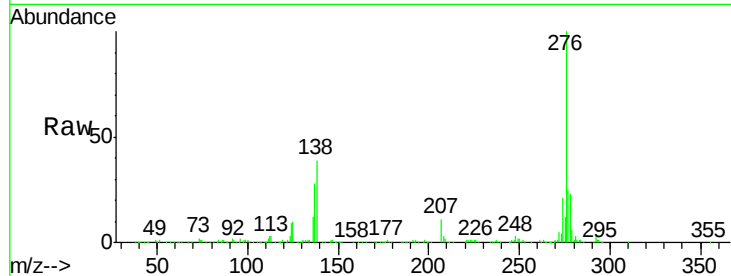




#85
Indeno(1,2,3-cd)pyrene
Concen: 16.24 ng
RT: 25.57 min Scan# 3895
Delta R.T. -0.01 min
Lab File: BG016814.D
Acq: 30 Apr 2015 2:03

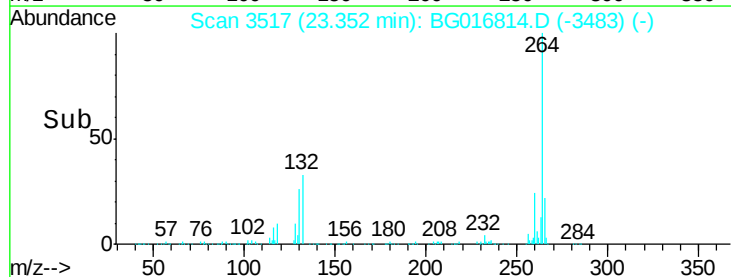
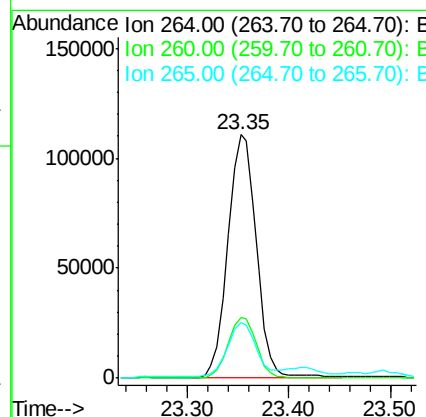
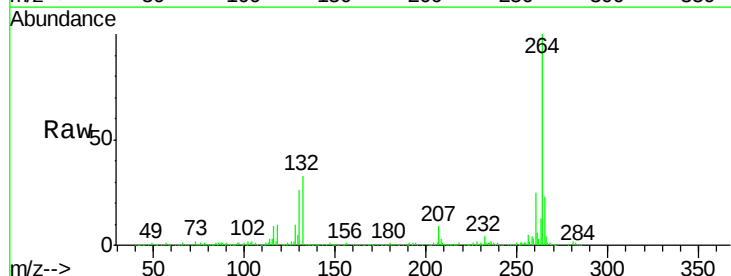
Instrument :
BNA_G
ClientSampleId :
SB-02-COMPDL

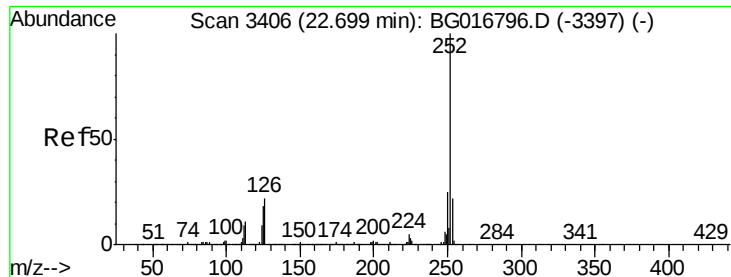
Tgt Ion	Ratio	Lower	Upper
276	100		
138	40.1	37.0	55.6
277	25.4	21.4	32.0



#86
Perylene-d12
Concen: 20.00 ng
RT: 23.35 min Scan# 3517
Delta R.T. -0.00 min
Lab File: BG016814.D
Acq: 30 Apr 2015 2:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.7	29.5
265	22.6	17.4	26.2





#87

Benzo(b)fluoranthene

Concen: 43.48 ng

RT: 22.70 min Scan# 3406

Delta R.T. 0.00 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

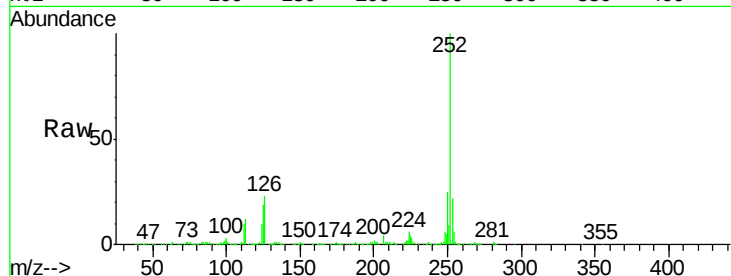
Instrument :

BNA_G

ClientSampleId :

SB-02-COMPDL

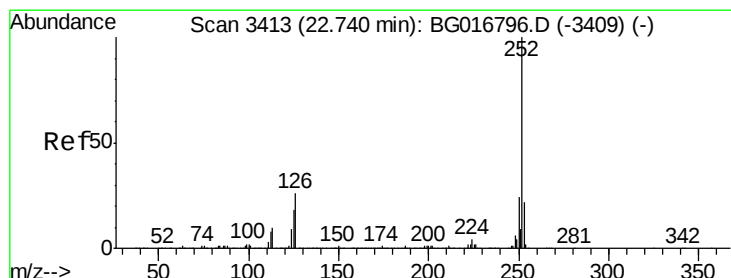
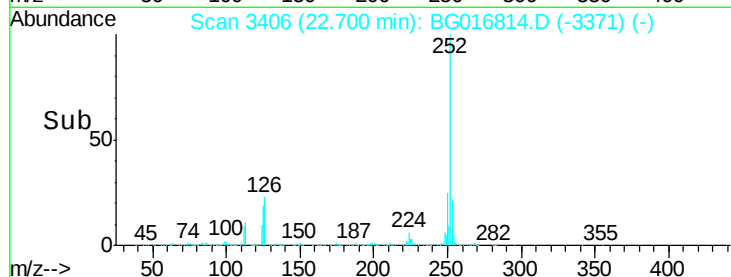
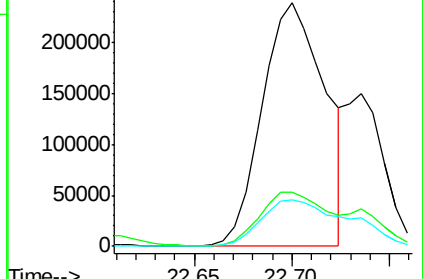
Tgt Ion:	252	Resp:	532085
Ion Ratio	Lower	Upper	
252	100		
253	22.3	18.0	27.0
125	19.2	14.2	21.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 44.40 ng

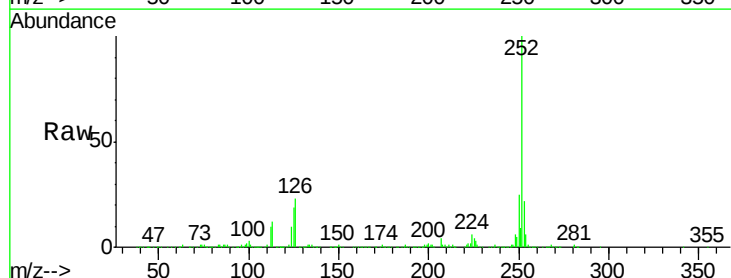
RT: 22.70 min Scan# 3406

Delta R.T. -0.04 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

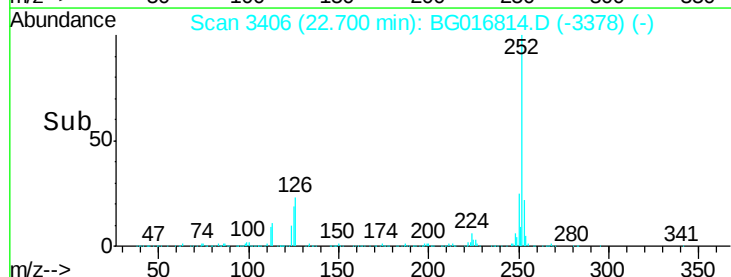
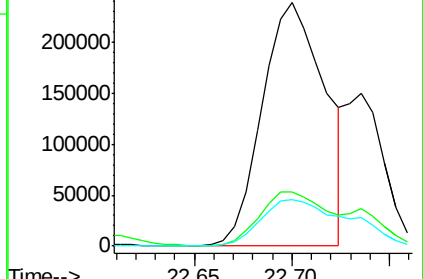
Tgt Ion:	252	Resp:	532085
Ion Ratio	Lower	Upper	
252	100		
253	22.3	17.7	26.5
125	19.2	14.5	21.7

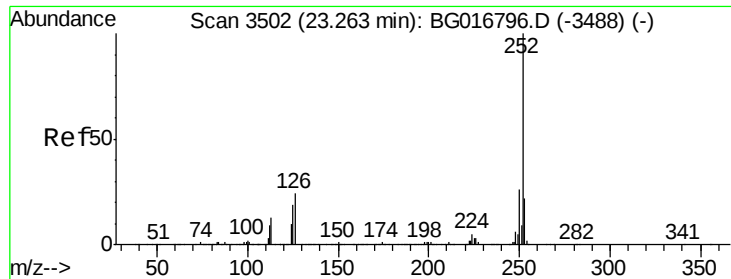


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 32.88 ng

RT: 23.26 min Scan# 3501

Delta R.T. -0.00 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

Instrument :

BNA_G

ClientSampleId :

SB-02-COMPDL

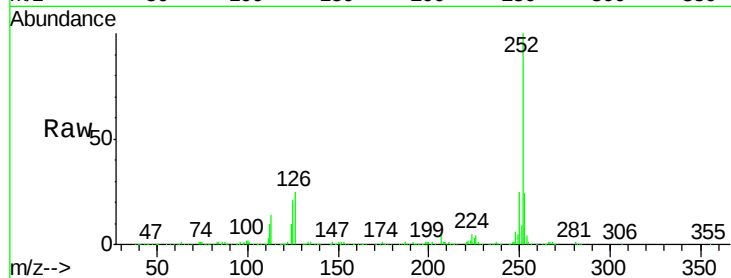
Tgt Ion: 252 Resp: 380992

Ion Ratio Lower Upper

252 100

253 23.8 17.9 26.9

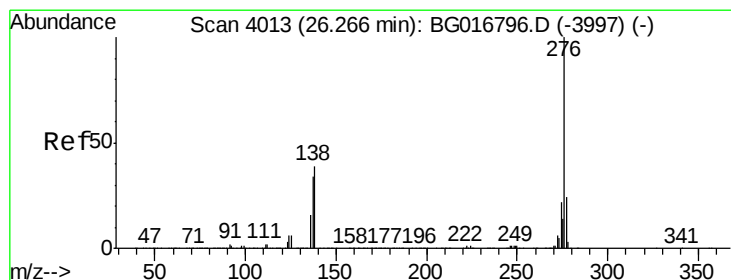
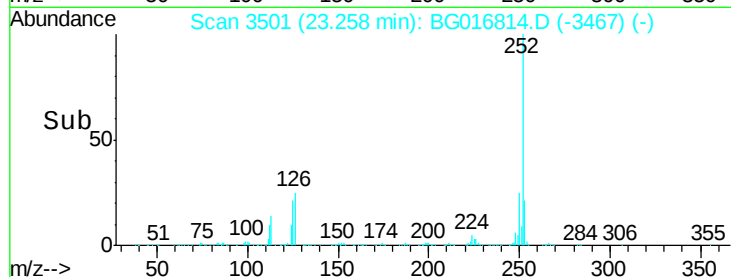
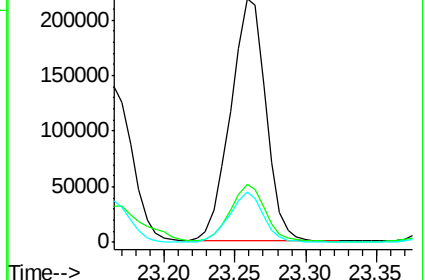
125 20.8 15.0 22.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 17.86 ng

RT: 26.25 min Scan# 4011

Delta R.T. -0.01 min

Lab File: BG016814.D

Acq: 30 Apr 2015 2:03

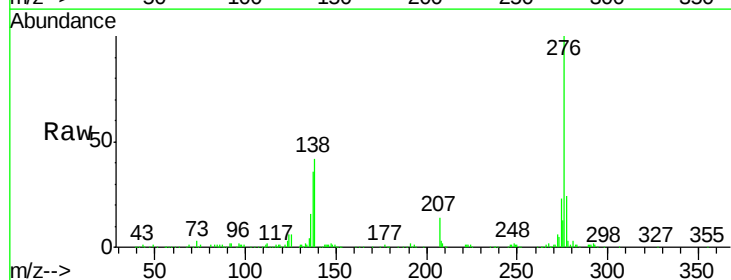
Tgt Ion: 276 Resp: 209872

Ion Ratio Lower Upper

276 100

277 23.9 19.6 29.4

138 41.5 31.0 46.4



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

