

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072715\
 Data File : BG018151.D
 Acq On : 28 Jul 2015 18:01
 Operator : TP/UM
 Sample : G3030-15
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C02F0

Quant Time: Jul 29 02:01:21 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jul 29 01:59:22 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	46319	20.00	ng/ul	0.00
18) Naphthalene-d8	10.29	136	200787	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.18	164	116511	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.04	188	171859	20.00	ng/ul	0.11
78) Chrysene-d12	21.15	240	264611	20.00	ng/ul	0.00
86) Perylene-d12	23.35	264	270585	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.01	96	2520	3.40	ng/uL	0.00
5) Phenol-d5	6.70	99	59563	16.67	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.85	67	30317	17.19	ng/ul	0.00
9) 2-Chlorophenol-d4	7.04	132	58641	18.51	ng/ul	0.00
13) 4-Methylphenol-d8	8.22	113	46098	14.55	ng/ul	0.00
19) Nitrobenzene-d5	8.66	128	30119	18.98	ng/ul	0.00
22) 2-Nitrophenol-d4	9.38	143	31901	19.03	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.92	165	54501	18.68	ng/ul	0.00
29) 4-Chloroaniline-d4	10.44	131	35207	10.37	ng/ul	0.00
44) Dimethylphthalate-d6	13.60	166	164610	20.12	ng/ul	0.00
47) Acenaphthylene-d8	13.87	160	182410	18.15	ng/ul	0.00
52) 4-Nitrophenol-d4	14.40	143	16835	9.78	ng/ul	0.00
58) Fluorene-d10	15.18	176	127410	16.85	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.42	200	216	0.20	ng/ul	0.11
71) Anthracene-d10	17.04	188	171901	23.09	ng/ul	0.00
79) Pyrene-d10	19.35	212	177600	14.65	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.21	264	187075	14.49	ng/ul	0.01

Target Compounds

						Qvalue
14) Acetophenone	8.33	105	7027	1.57	ng/ul	99
28) Naphthalene	10.34	128	58013	6.17	ng/ul	98
30) 4-Chloroaniline	10.34	127	7471	2.14	ng/ul#	1
34) 2-Methylnaphthalene	11.97	142	41932	5.90	ng/ul	98
35) 1-Methylnaphthalene	12.19	142	38812	5.60	ng/ul	96
41) 1,1'-Biphenyl	13.01	154	19525	2.45	ng/ul#	96
45) Dimethylphthalate	13.65	163	87097	10.58	ng/ul	99
48) Acenaphthylene	13.90	152	49811	4.72	ng/ul	96
50) Acenaphthene	14.25	153	133492	19.32	ng/ul	97
54) Dibenzofuran	14.59	168	123096	12.54	ng/ul	95
59) Fluorene	15.24	166	268745	31.79	ng/ul	98
61) 4-Nitroaniline	15.24	138	3420	1.63	ng/ul#	32
64) 4,6-Dinitro-2-methylphenol	15.25	198	1887	1.63	ng/ul#	70
65) N-Nitrosodiphenylamine	15.56	169	6030	1.29	ng/ul#	27
70) Phenanthrene	17.08	178	704253	81.56	ng/ul	99
72) Anthracene	17.08	178	688702	78.55	ng/ul	98
75) Carbazole	17.35	167	105673	13.91	ng/ul	98
76) Di-n-butylphthalate	18.02	149	10195	1.02	ng/ul#	1
77) Fluoranthene	19.12	202	13302	1.45	ng/ul#	83
80) Pyrene	19.39	202	2651576	174.98	ng/ul#	90
83) Benzo(a)anthracene	21.14	228	1543482	110.29	ng/ul#	88
84) Bis(2-ethylhexyl)phthalate	21.08	149	51379	5.78	ng/ul	97
85) Chrysene	21.19	228	1471740	111.68	ng/ul#	88

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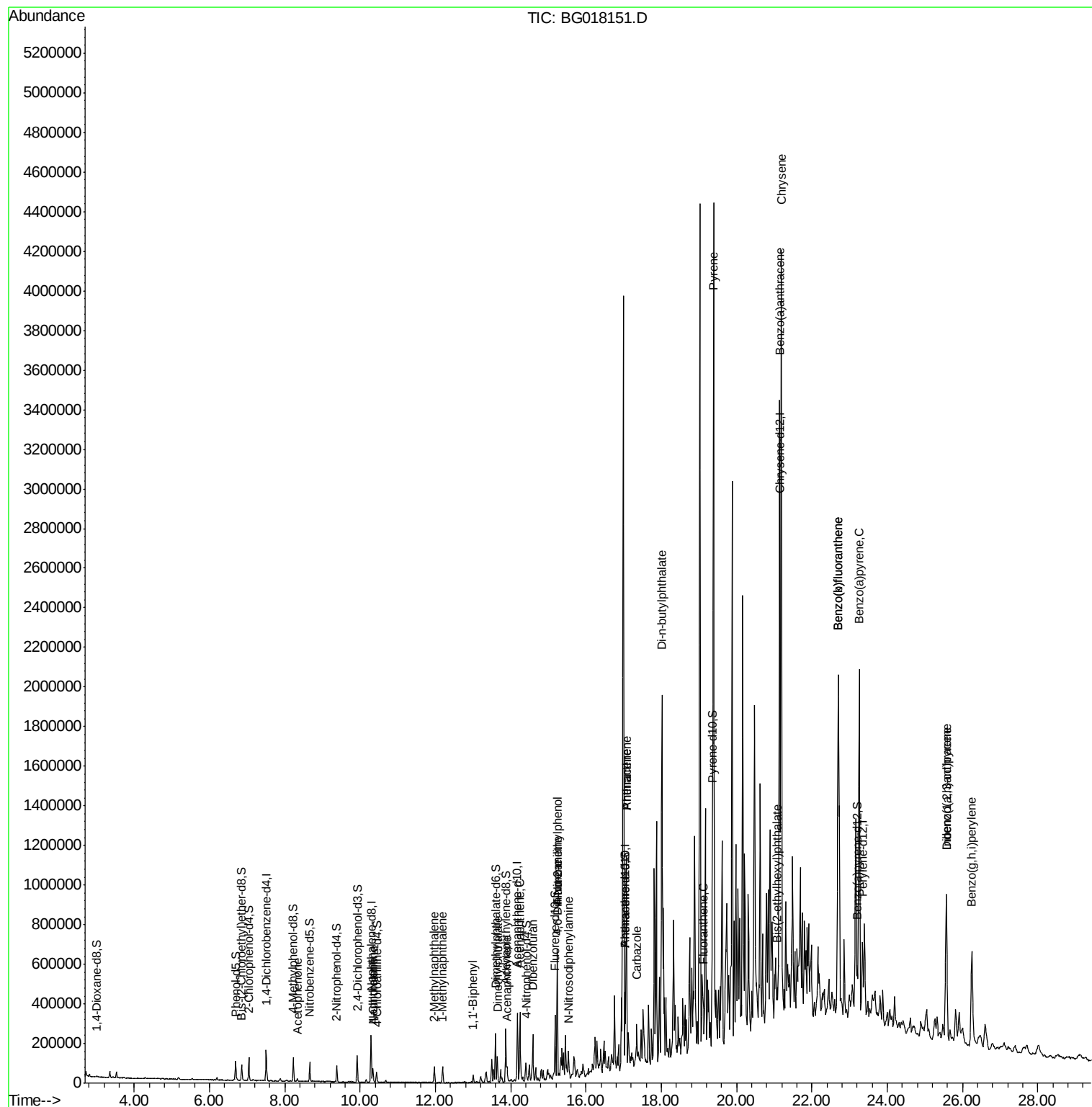
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(b)fluoranthene	22.70	252	1529303	103.16	ng/ul	97
89) Benzo(k)fluoranthene	22.70	252	1529303	106.59	ng/ul	96
91) Benzo(a)pyrene	23.26	252	1212672	84.46	ng/ul	96
92) Indeno(1,2,3-cd)pyrene	25.57	276	681135	41.12	ng/ul#	91
93) Dibenzo(a,h)anthracene	25.57	278	211427	14.95	ng/ul#	93
94) Benzo(g,h,i)perylene	26.25	276	578138	42.24	ng/ul	97

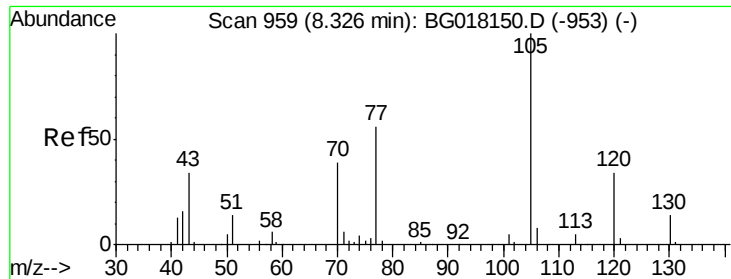
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#14

Acetophenone

Concen: 1.57 ng/ul

RT: 8.33 min Scan# 960

Delta R.T. 0.00 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

Instrument :

BNA_G

ClientSampled :

C02F0

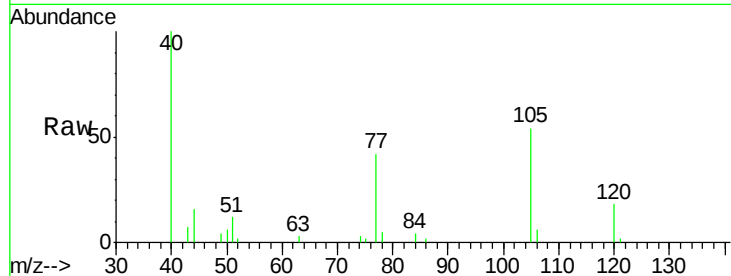
Tgt Ion:105 Resp: 7027

Ion Ratio Lower Upper

105 100

77 78.0 61.7 92.5

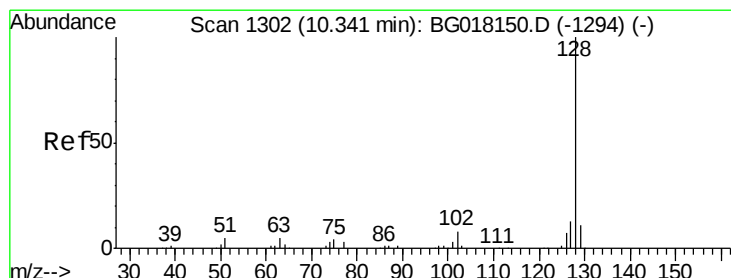
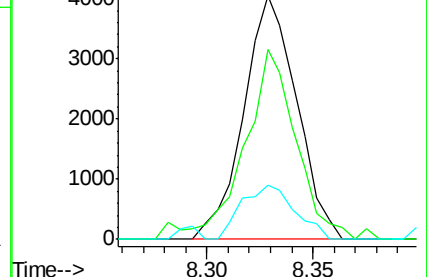
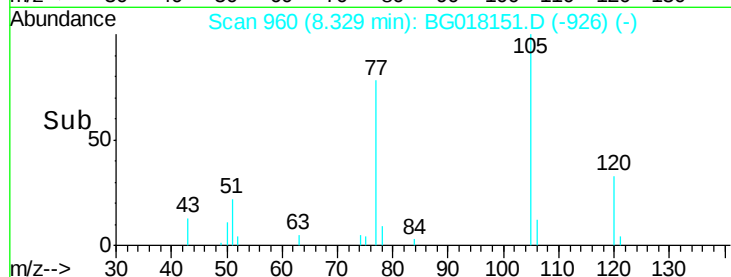
51 22.3 18.1 27.1



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#28

Naphthalene

Concen: 6.17 ng/ul

RT: 10.34 min Scan# 1302

Delta R.T. -0.00 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

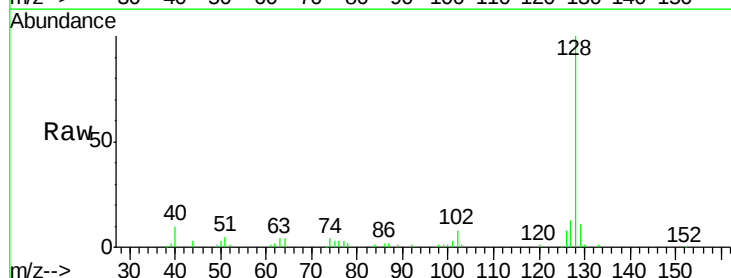
Tgt Ion:128 Resp: 58013

Ion Ratio Lower Upper

128 100

129 11.1 9.5 14.3

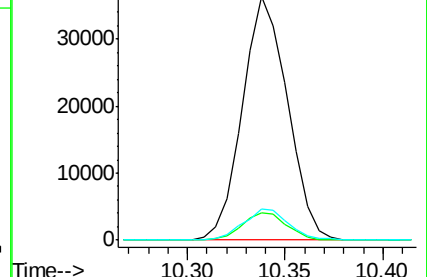
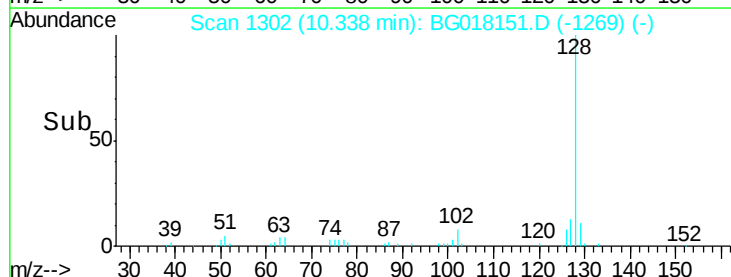
127 13.0 10.1 15.1

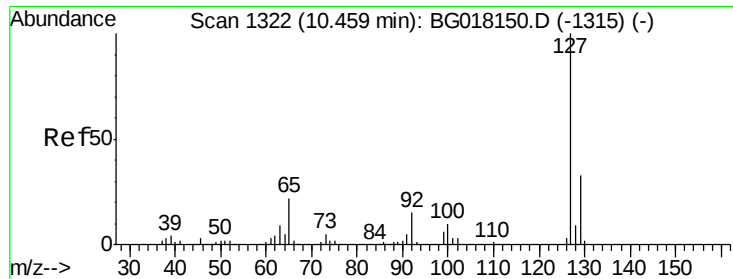


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

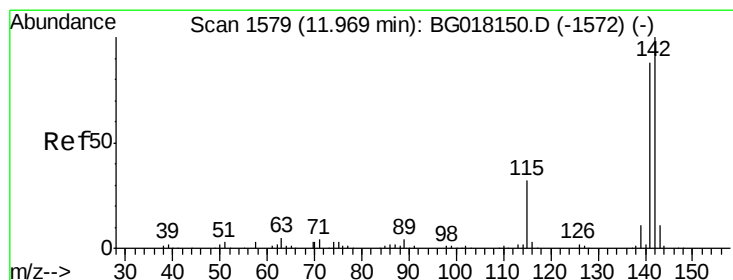
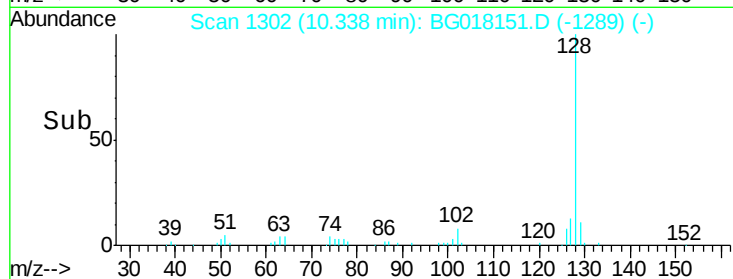
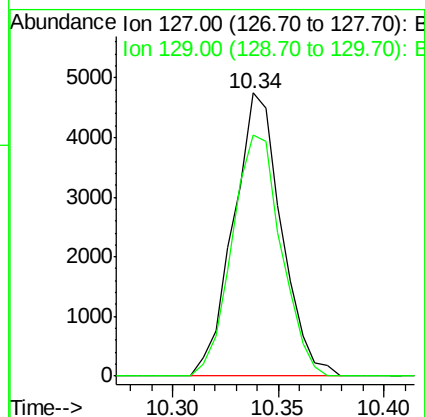
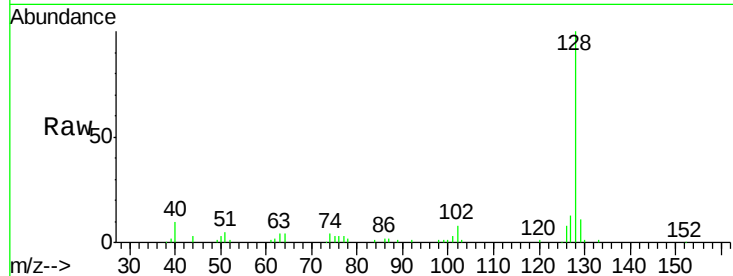




#30
4-Chloroaniline
Concen: 2.14 ng/ul
RT: 10.34 min Scan# 1302
Delta R.T. -0.12 min
Lab File: BG018151.D
Acq: 28 Jul 2015 18:01

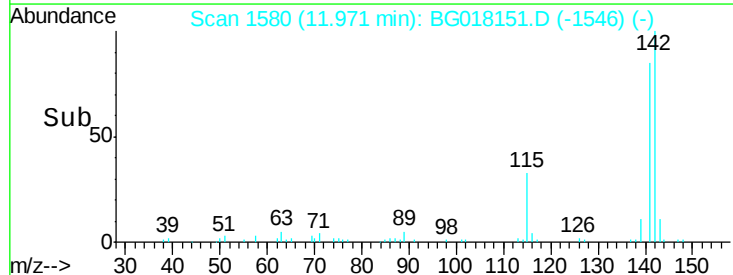
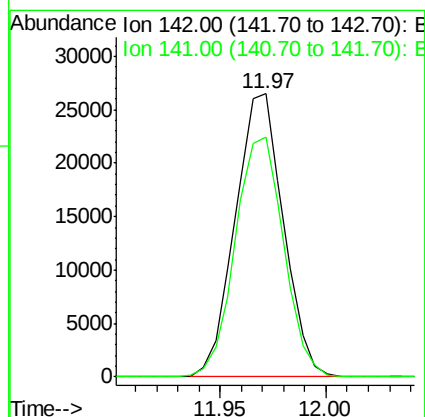
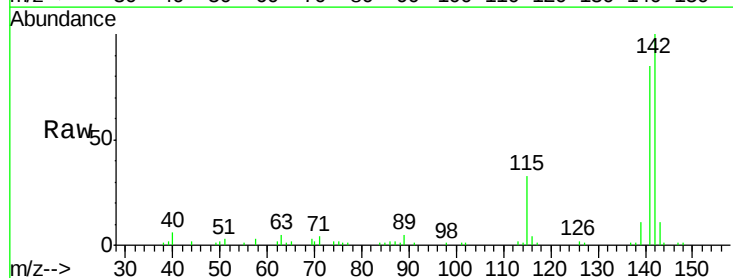
Instrument :
BNA_G
ClientSampled :
C02F0

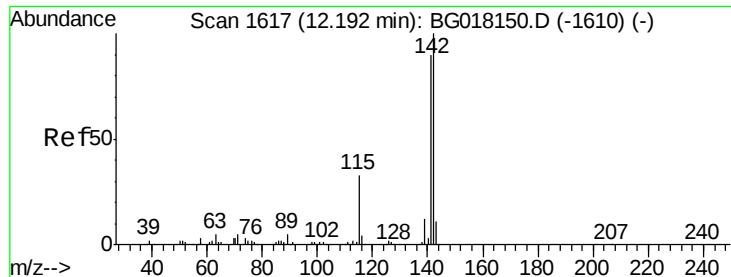
Tgt Ion:127 Resp: 7471
Ion Ratio Lower Upper
127 100
129 85.2 24.7 37.1#



#34
2-Methylnaphthalene
Concen: 5.90 ng/ul
RT: 11.97 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BG018151.D
Acq: 28 Jul 2015 18:01

Tgt Ion:142 Resp: 41932
Ion Ratio Lower Upper
142 100
141 84.9 69.4 104.0

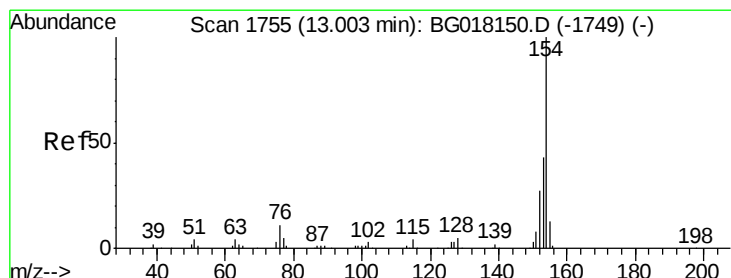
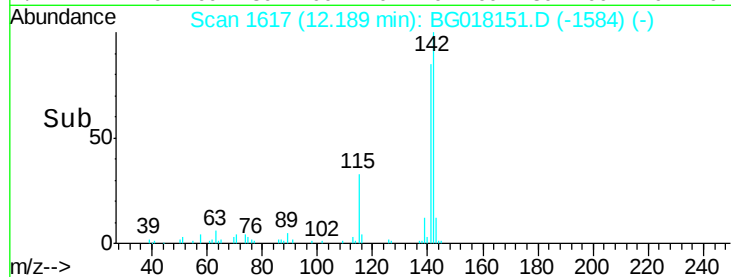
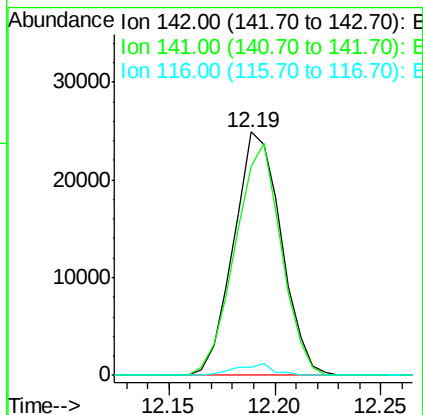
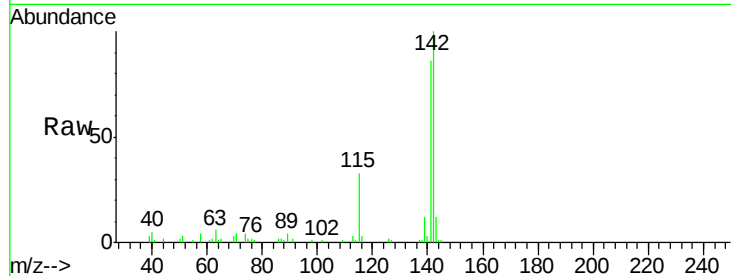




#35
 1-Methylnaphthalene
 Concen: 5.60 ng/ul
 RT: 12.19 min Scan# 1617
 Delta R.T. -0.00 min
 Lab File: BG018151.D
 Acq: 28 Jul 2015 18:01

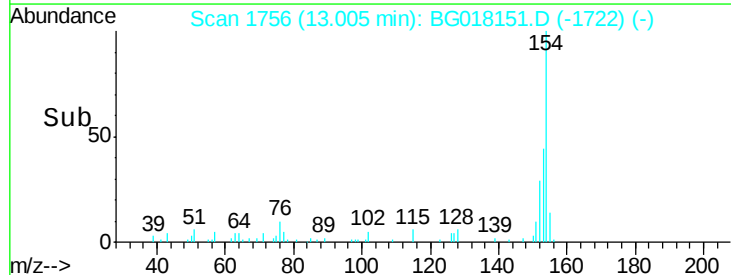
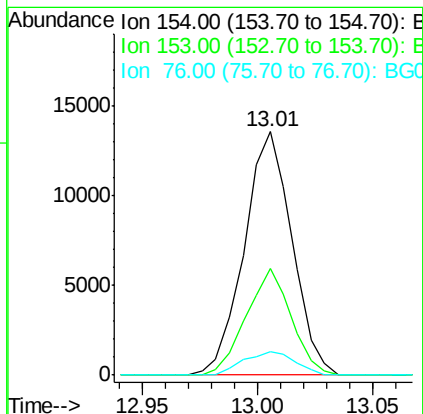
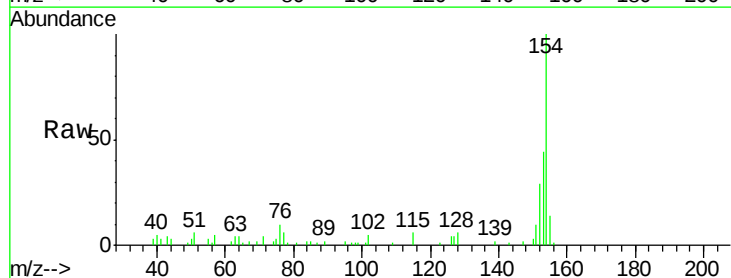
Instrument :
 BNA_G
 ClientSampleId :
 C02F0

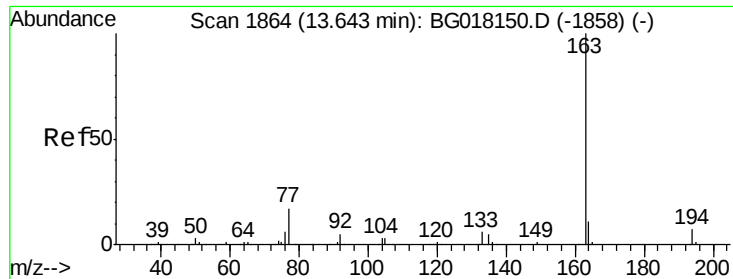
Tgt Ion:142 Resp: 38812
 Ion Ratio Lower Upper
 142 100
 141 86.1 71.8 107.6
 116 3.5 3.2 4.8



#41
 1,1'-Biphenyl
 Concen: 2.45 ng/ul
 RT: 13.01 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: BG018151.D
 Acq: 28 Jul 2015 18:01

Tgt Ion:154 Resp: 19525
 Ion Ratio Lower Upper
 154 100
 153 43.8 33.1 49.7
 76 9.6 9.7 14.5#





#45

Dimethylphthalate

Concen: 10.58 ng/ul

RT: 13.65 min Scan# 1865

Delta R.T. 0.00 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

Instrument :

BNA_G

ClientSampleId :

C02F0

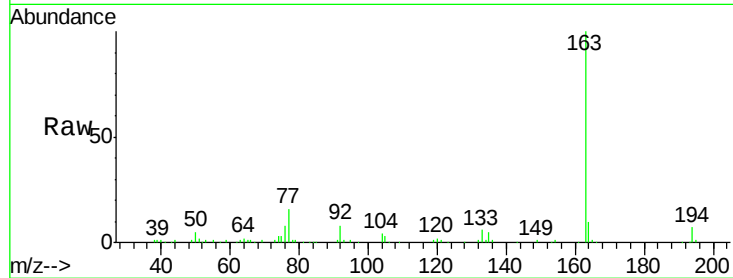
Tgt Ion:163 Resp: 87097

Ion Ratio Lower Upper

163 100

194 7.1 5.4 8.2

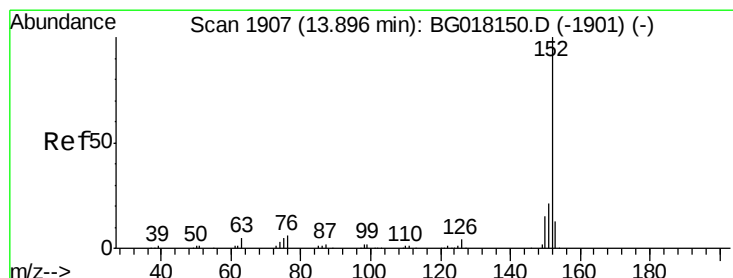
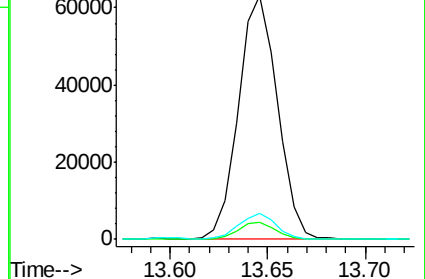
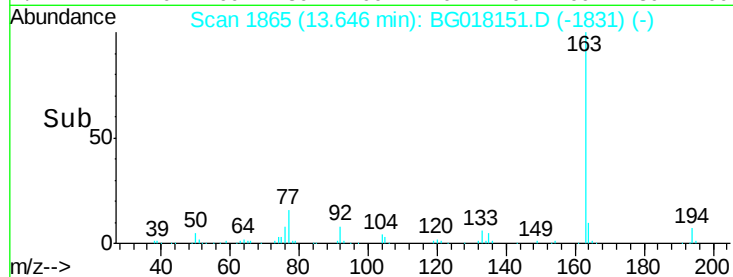
164 10.5 8.7 13.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#48

Acenaphthylene

Concen: 4.72 ng/ul

RT: 13.90 min Scan# 1909

Delta R.T. 0.01 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

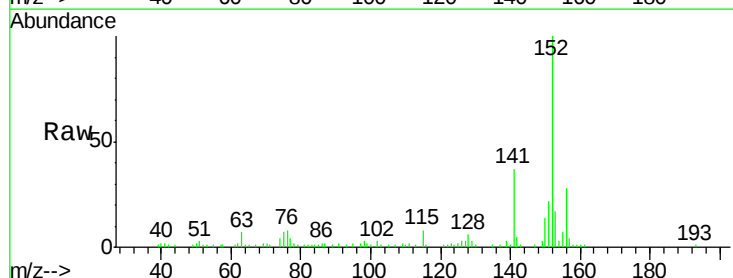
Tgt Ion:152 Resp: 49811

Ion Ratio Lower Upper

152 100

151 22.1 16.6 25.0

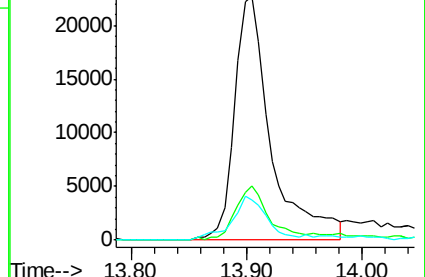
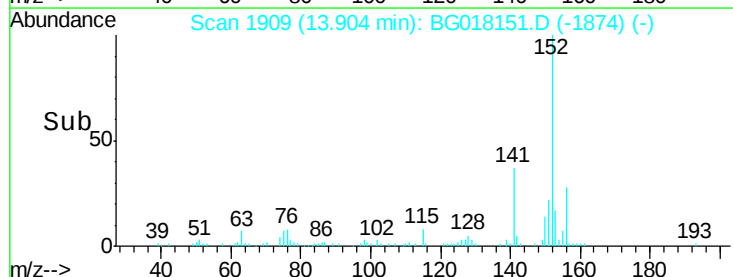
153 16.7 11.3 16.9

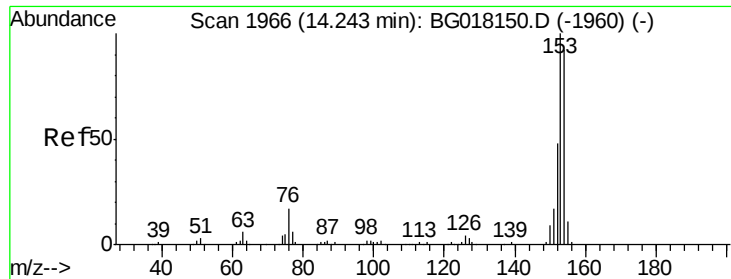


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#50

Acenaphthene

Concen: 19.32 ng/ul

RT: 14.25 min Scan# 1967

Delta R.T. 0.00 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

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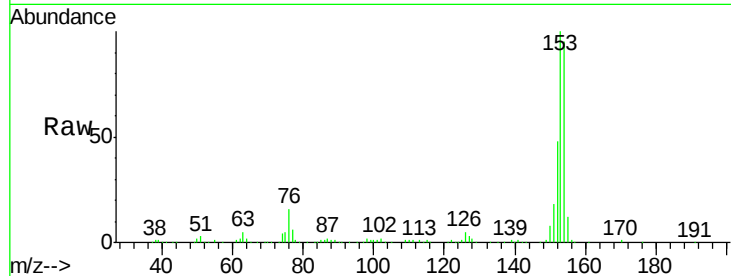
Tgt Ion:153 Resp: 133492

Ion Ratio Lower Upper

153 100

152 48.0 38.9 58.3

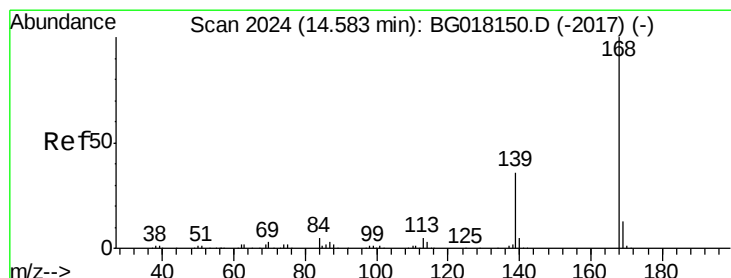
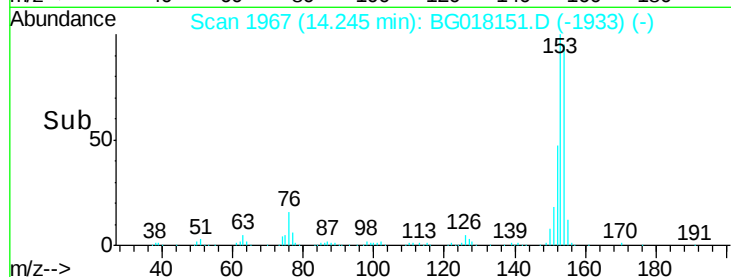
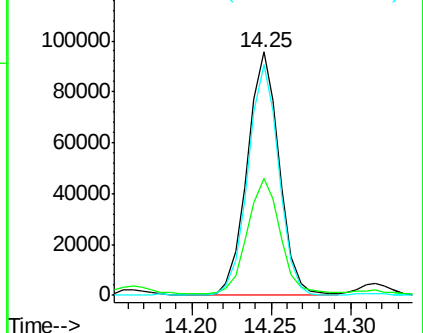
154 94.6 72.6 108.8



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 12.54 ng/ul

RT: 14.59 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BG018151.D

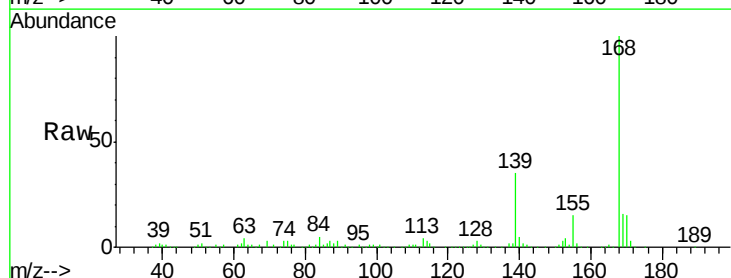
Acq: 28 Jul 2015 18:01

Tgt Ion:168 Resp: 123096

Ion Ratio Lower Upper

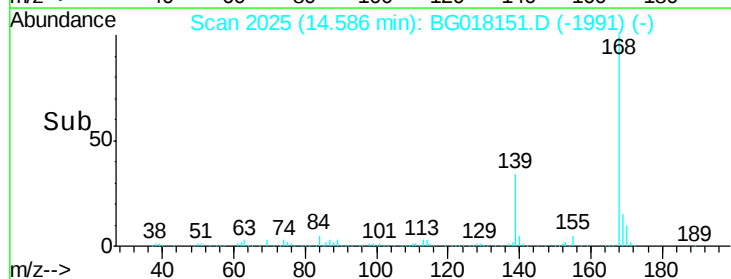
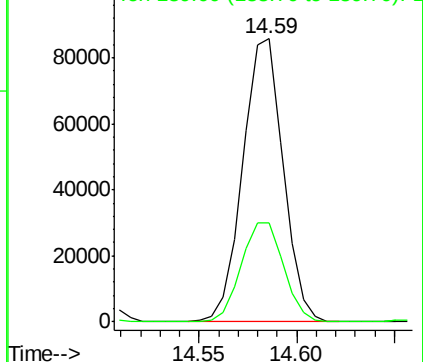
168 100

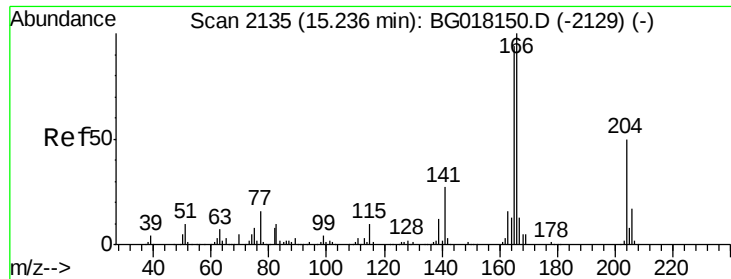
139 35.1 30.6 46.0



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 31.79 ng/ul

RT: 15.24 min Scan# 2136

Delta R.T. 0.00 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

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BNA_G

ClientSampleId :

C02F0

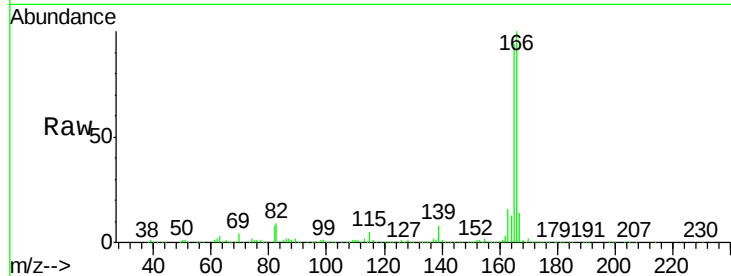
Tgt Ion:166 Resp: 268745

Ion Ratio Lower Upper

166 100

165 94.4 73.6 110.4

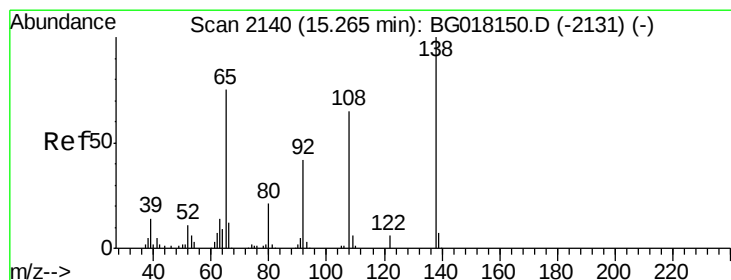
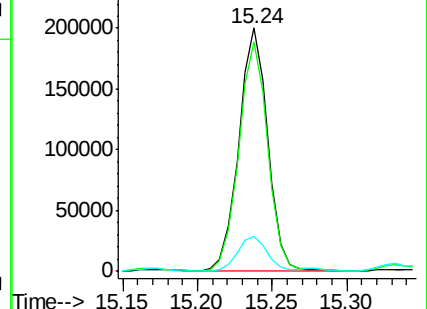
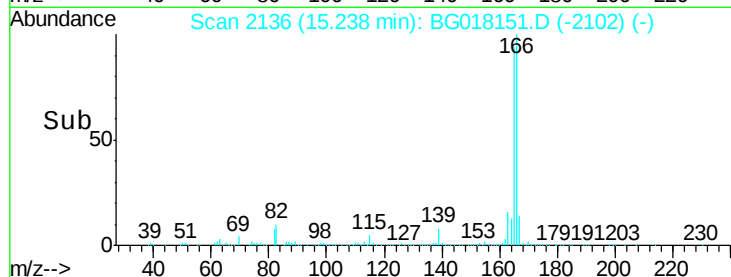
167 14.5 10.8 16.2



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



#61

4-Nitroaniline

Concen: 1.63 ng/ul

RT: 15.24 min Scan# 2136

Delta R.T. -0.03 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

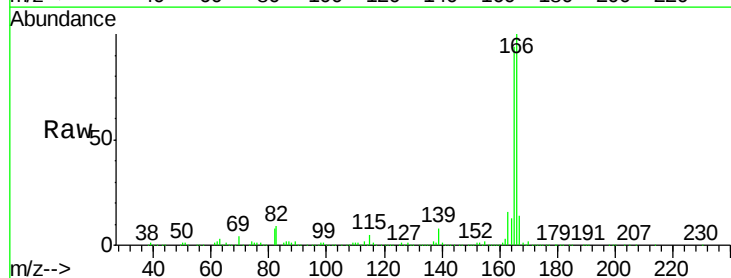
Tgt Ion:138 Resp: 3420

Ion Ratio Lower Upper

138 100

92 0.0 35.8 53.8#

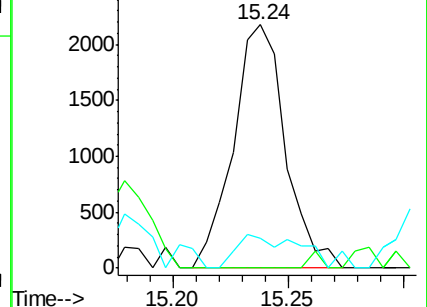
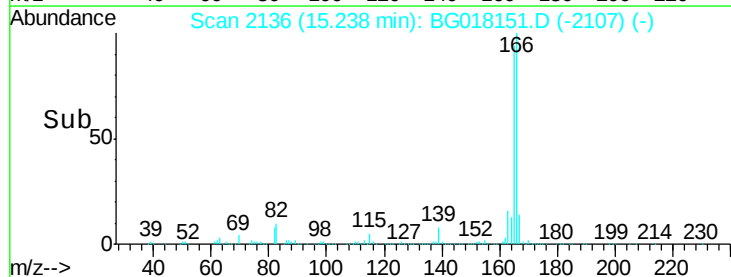
108 12.5 52.5 78.7#

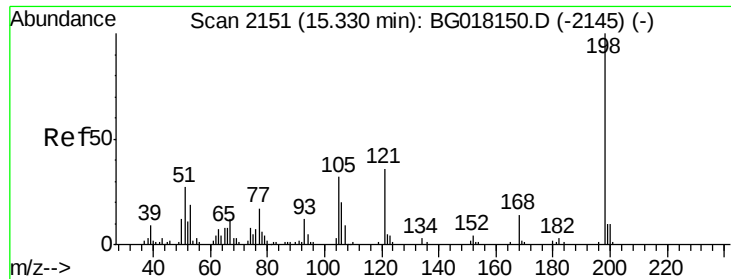


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG

Ion 108.00 (107.70 to 108.70): E





#64

4,6-Dinitro-2-methylphenol

Concen: 1.63 ng/ul

RT: 15.25 min Scan# 2138

Delta R.T. -0.08 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

Instrument :

BNA_G

ClientSampleId :

C02F0

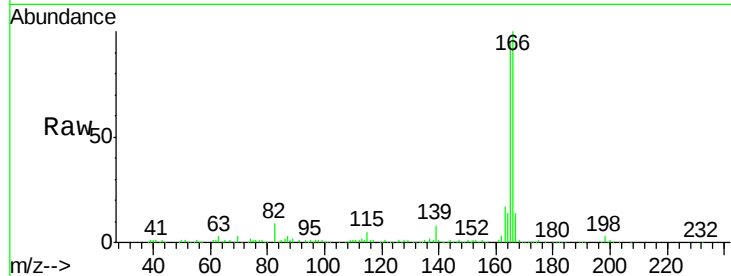
Tgt Ion:198 Resp: 1887

Ion Ratio Lower Upper

198 100

182 17.1 2.9 4.3#

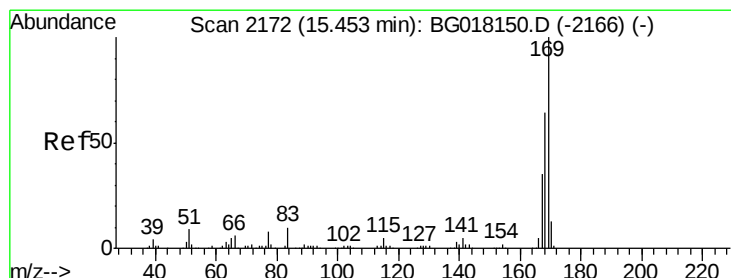
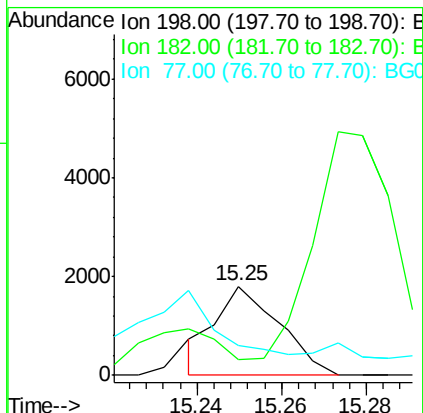
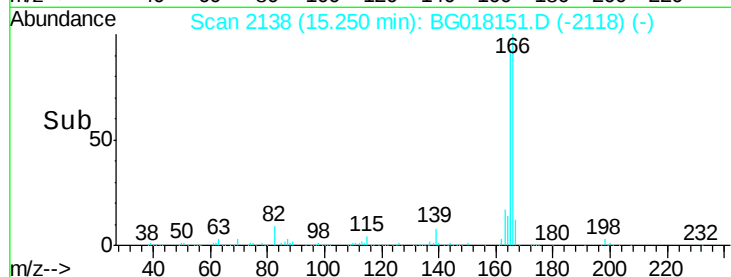
77 32.9 16.0 24.0#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 77.00 (76.70 to 77.70): BGC



#65

N-Nitrosodiphenylamine

Concen: 1.29 ng/ul

RT: 15.56 min Scan# 2190

Delta R.T. 0.10 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

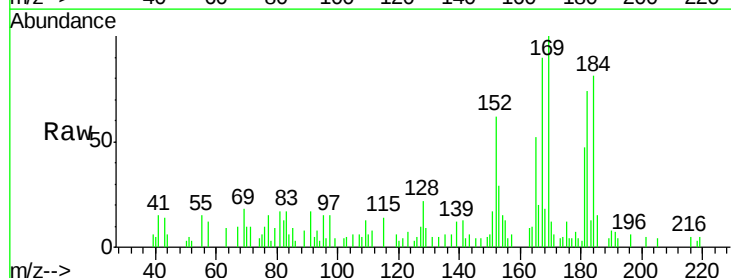
Tgt Ion:169 Resp: 6030

Ion Ratio Lower Upper

169 100

168 18.0 52.5 78.7#

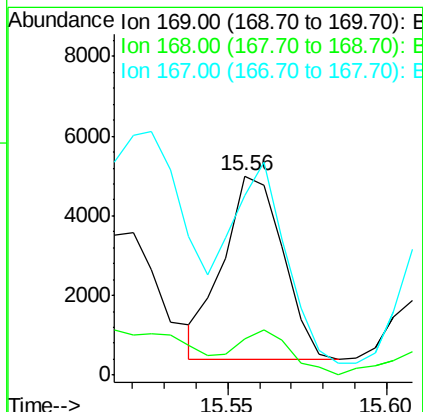
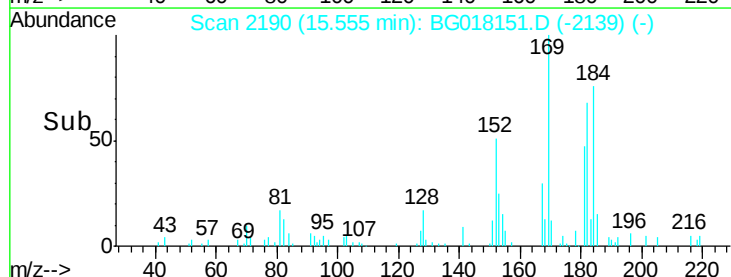
167 90.2 27.4 41.0#

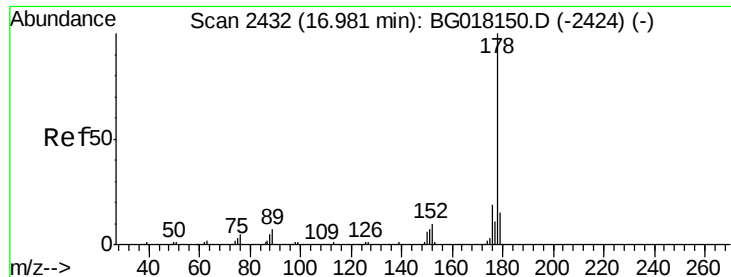


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 81.56 ng/ul

RT: 17.08 min Scan# 2449

Delta R.T. 0.10 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

Instrument :

BNA_G

ClientSampleId :

C02F0

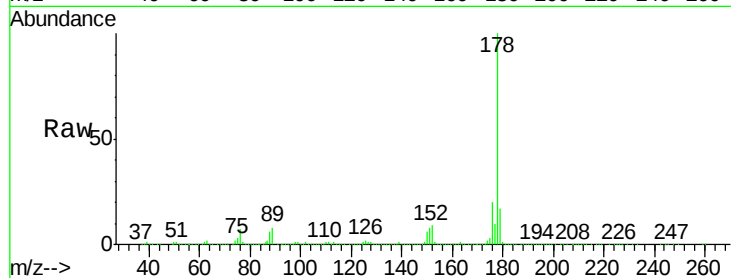
Tgt Ion:178 Resp: 704253

Ion Ratio Lower Upper

178 100

179 17.0 13.0 19.6

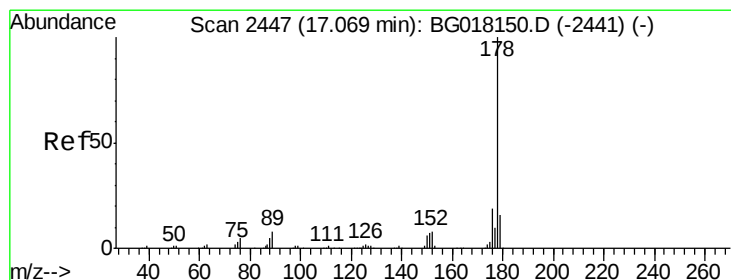
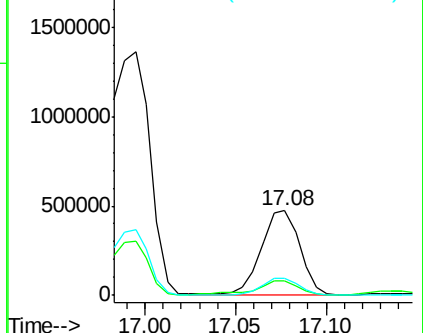
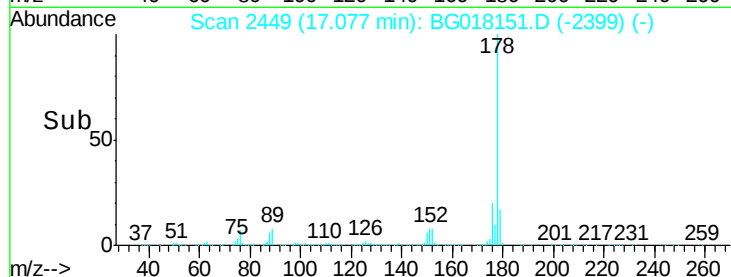
176 20.2 15.8 23.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 78.55 ng/ul

RT: 17.08 min Scan# 2449

Delta R.T. 0.01 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

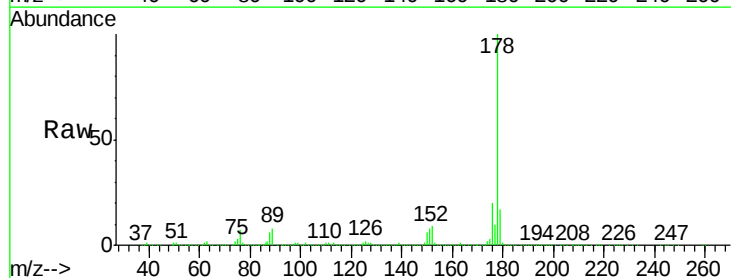
Tgt Ion:178 Resp: 688702

Ion Ratio Lower Upper

178 100

179 17.0 12.4 18.6

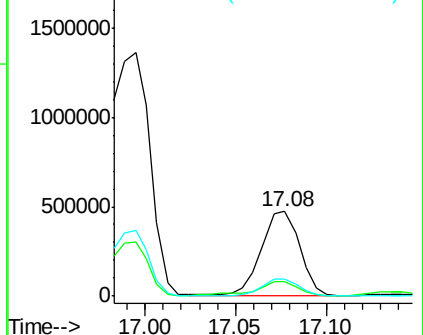
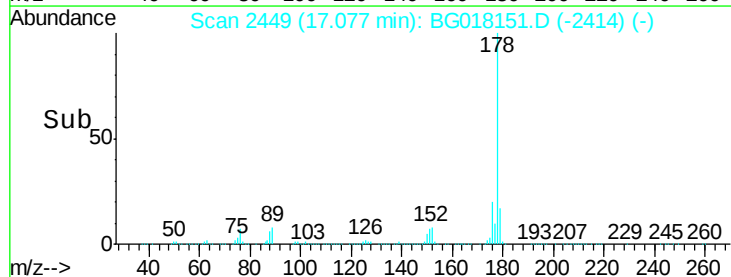
176 20.2 15.8 23.8

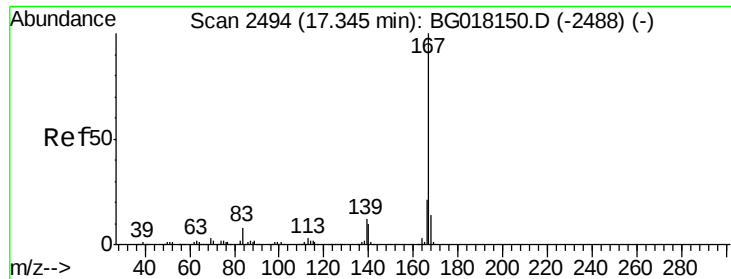


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

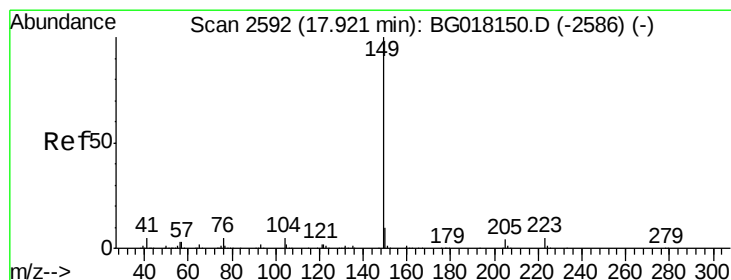
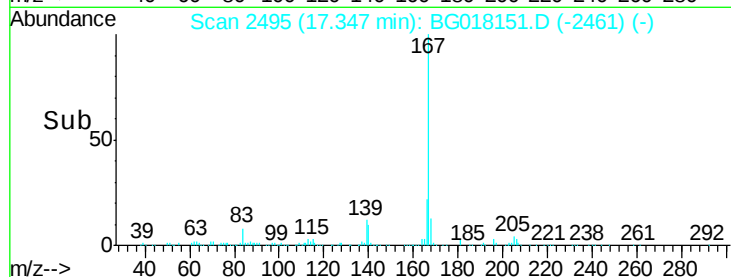
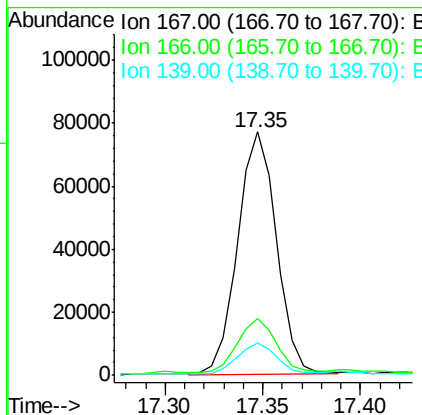
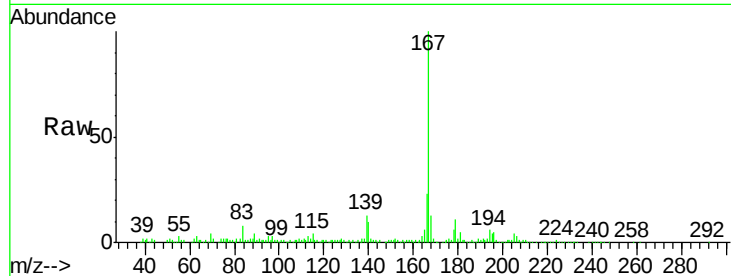




#75
 Carbazole
 Concen: 13.91 ng/ul
 RT: 17.35 min Scan# 2495
 Delta R.T. 0.00 min
 Lab File: BG018151.D
 Acq: 28 Jul 2015 18:01

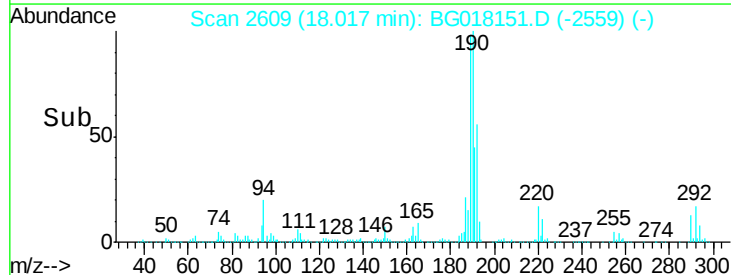
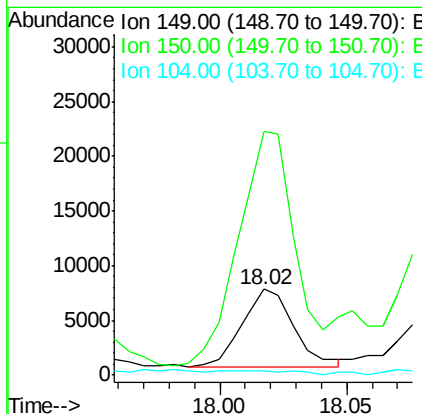
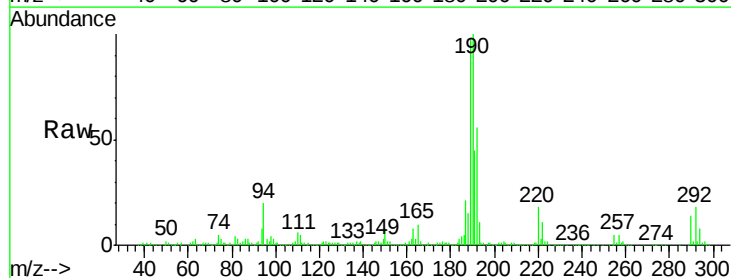
Instrument :
 BNA_G
 ClientSampleId :
 C02F0

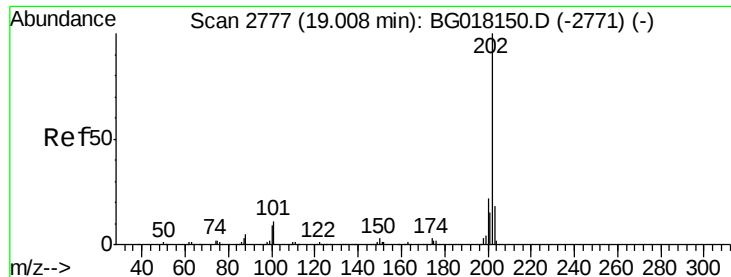
Tgt Ion:167 Resp: 105673
 Ion Ratio Lower Upper
 167 100
 166 23.1 17.4 26.2
 139 13.5 10.6 15.8



#76
 Di-n-butylphthalate
 Concen: 1.02 ng/ul
 RT: 18.02 min Scan# 2609
 Delta R.T. 0.10 min
 Lab File: BG018151.D
 Acq: 28 Jul 2015 18:01

Tgt Ion:149 Resp: 10195
 Ion Ratio Lower Upper
 149 100
 150 283.0 7.4 11.0#
 104 4.9 3.8 5.8





#77

Fluoranthene

Concen: 1.45 ng/ul

RT: 19.12 min Scan# 2797

Delta R.T. 0.11 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

Instrument :

BNA_G

ClientSampleId :

C02F0

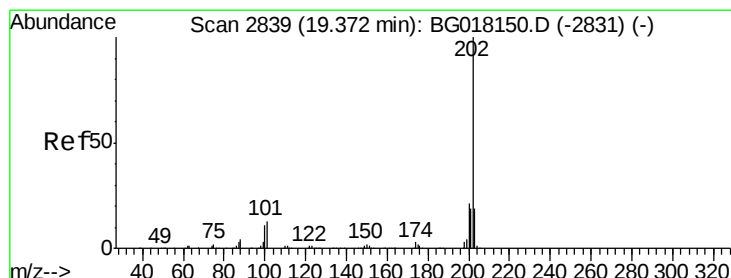
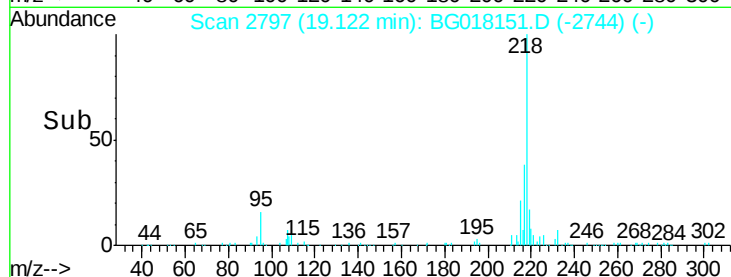
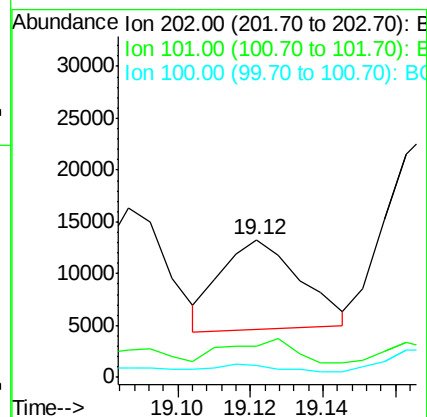
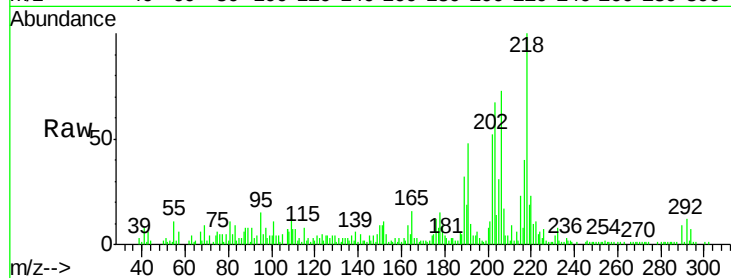
Tgt Ion:202 Resp: 13302

Ion Ratio Lower Upper

202 100

101 22.2 9.1 13.7#

100 8.2 7.5 11.3



#80

Pyrene

Concen: 174.98 ng/ul

RT: 19.39 min Scan# 2843

Delta R.T. 0.02 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

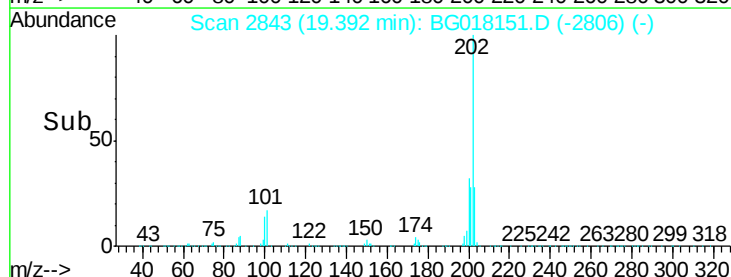
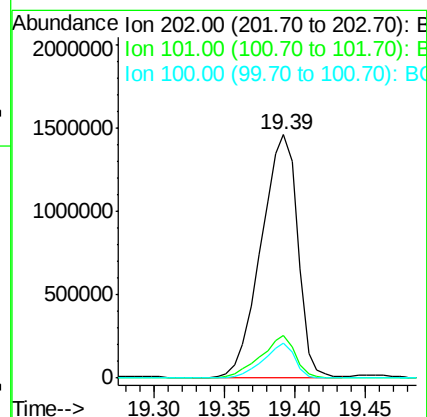
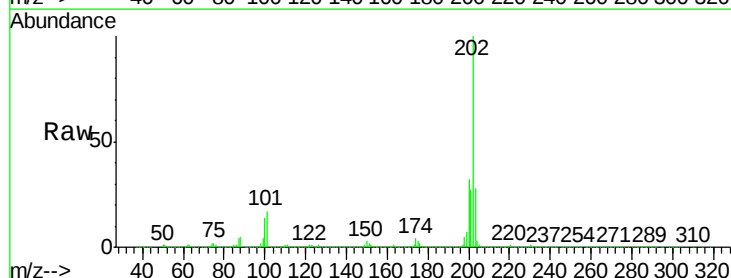
Tgt Ion:202 Resp: 2651576

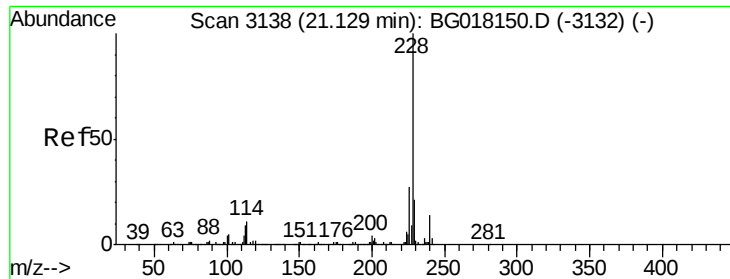
Ion Ratio Lower Upper

202 100

101 17.3 10.9 16.3#

100 14.4 8.5 12.7#

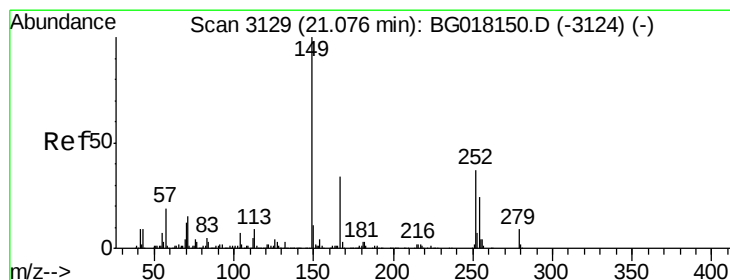
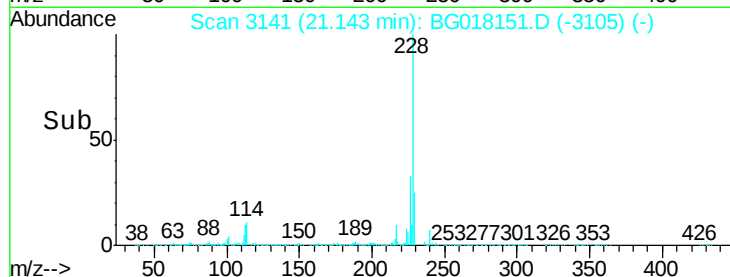
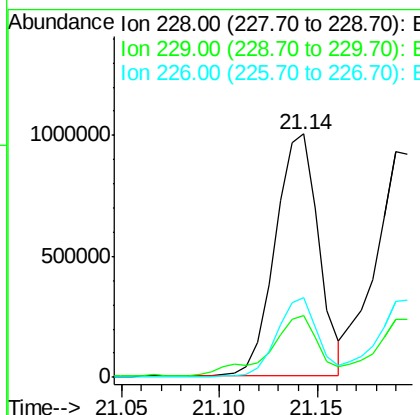
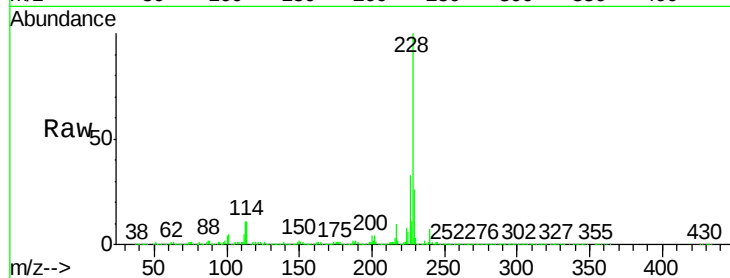




#83
Benzo(a)anthracene
Concen: 110.29 ng/u1
RT: 21.14 min Scan# 3141
Delta R.T. 0.01 min
Lab File: BG018151.D
Acq: 28 Jul 2015 18:01

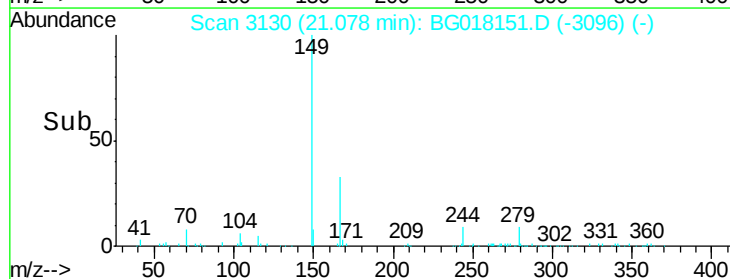
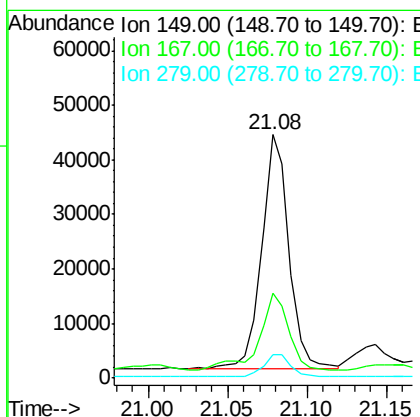
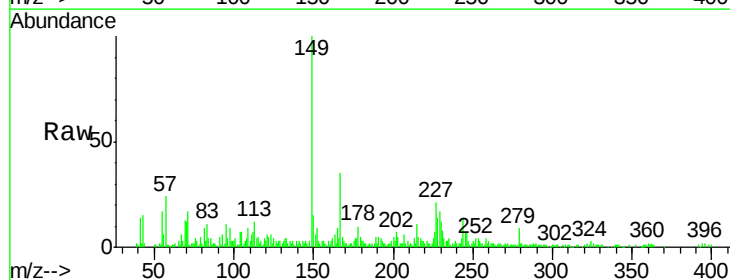
Instrument :
BNA_G
ClientSampleId :
C02F0

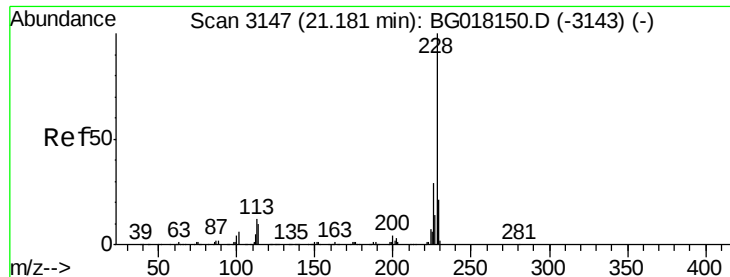
Tgt Ion:228 Resp: 1543482
Ion Ratio Lower Upper
228 100
229 25.6 16.6 24.8#
226 32.8 21.1 31.7#



#84
Bis(2-ethylhexyl)phthalate
Concen: 5.78 ng/u1
RT: 21.08 min Scan# 3130
Delta R.T. 0.00 min
Lab File: BG018151.D
Acq: 28 Jul 2015 18:01

Tgt Ion:149 Resp: 51379
Ion Ratio Lower Upper
149 100
167 35.0 26.2 39.4
279 9.5 7.2 10.8





#85

Chrysene

Concen: 111.68 ng/ul

RT: 21.19 min Scan# 3149

Delta R.T. 0.01 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

Instrument :

BNA_G

ClientSampleId :

C02F0

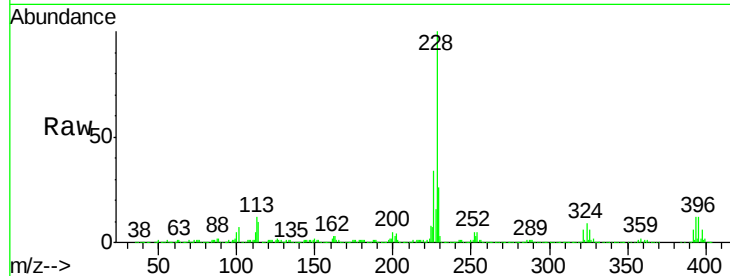
Tgt Ion:228 Resp: 1471740

Ion Ratio Lower Upper

228 100

226 33.8 22.9 34.3

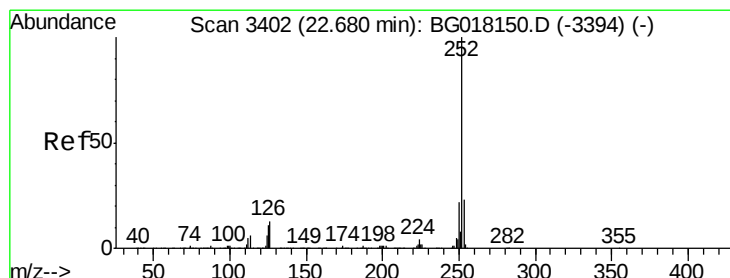
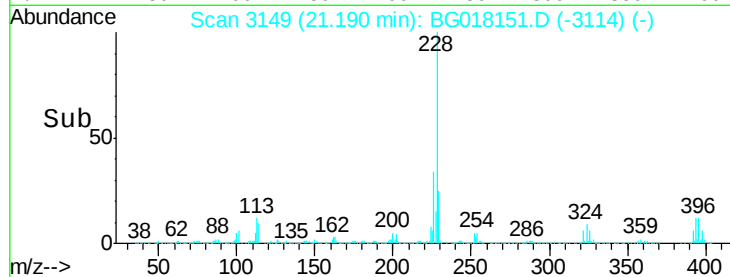
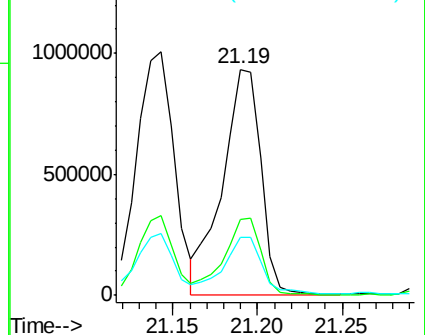
229 25.9 15.6 23.4#



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



#88

Benzo(b)fluoranthene

Concen: 103.16 ng/ul

RT: 22.70 min Scan# 3406

Delta R.T. 0.02 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

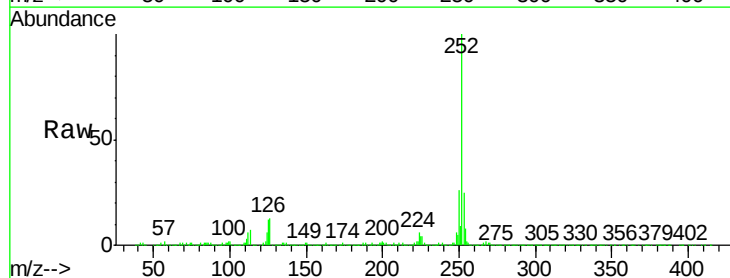
Tgt Ion:252 Resp: 1529303

Ion Ratio Lower Upper

252 100

253 24.8 18.5 27.7

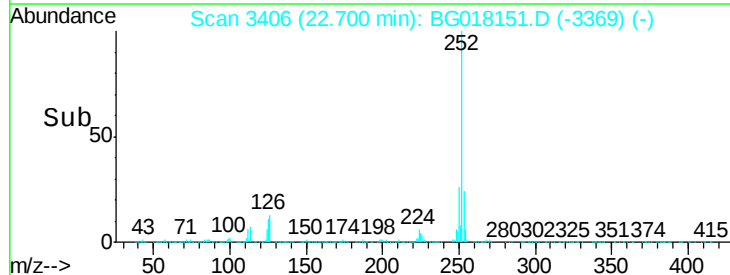
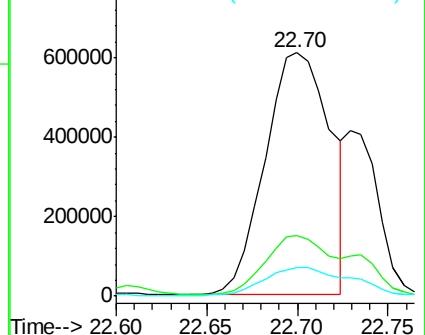
125 11.8 9.1 13.7

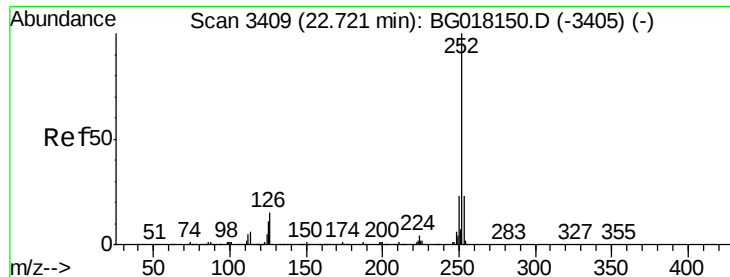


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 106.59 ng/ul

RT: 22.70 min Scan# 3406

Delta R.T. -0.02 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

Instrument :

BNA_G

ClientSampleId :

C02F0

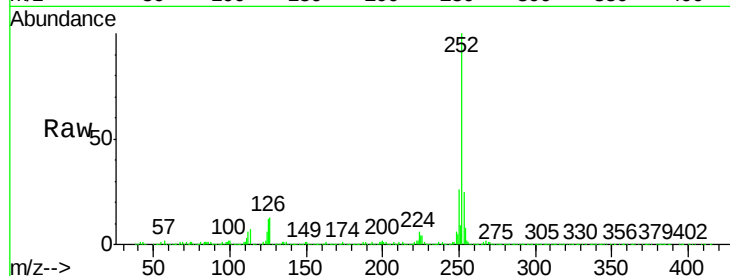
Tgt Ion:252 Resp: 1529303

Ion Ratio Lower Upper

252 100

253 24.8 17.8 26.8

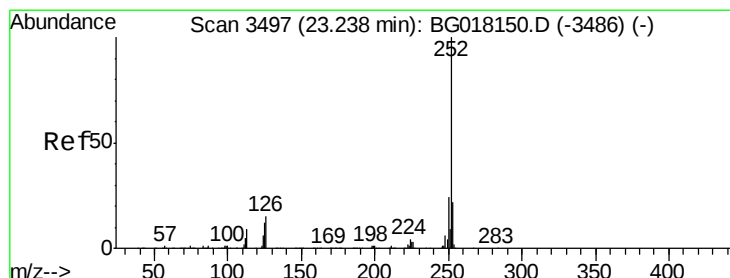
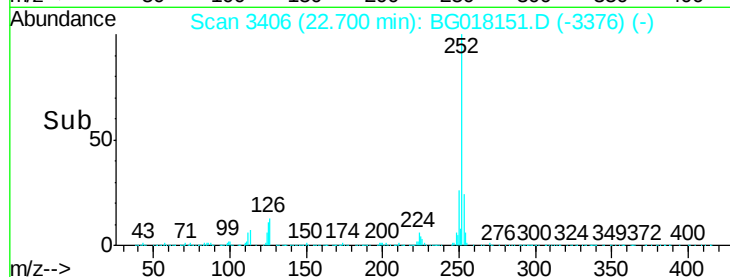
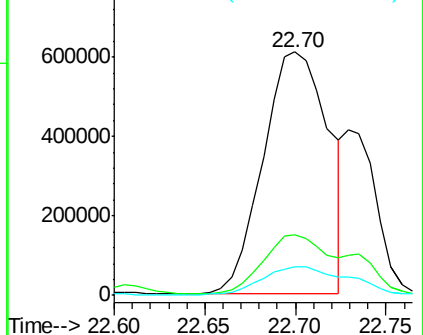
125 11.8 9.3 13.9



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(a)pyrene

Concen: 84.46 ng/ul

RT: 23.26 min Scan# 3501

Delta R.T. 0.02 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

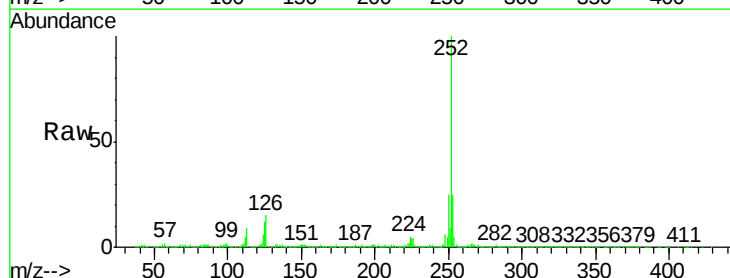
Tgt Ion:252 Resp: 1212672

Ion Ratio Lower Upper

252 100

253 24.9 18.0 27.0

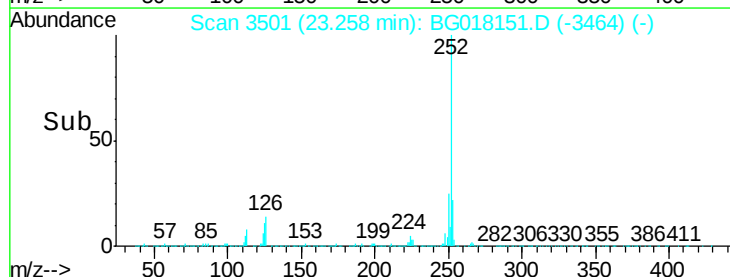
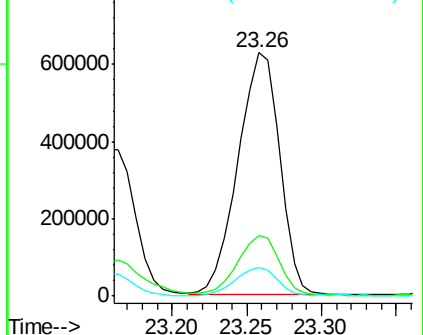
125 11.9 10.2 15.2

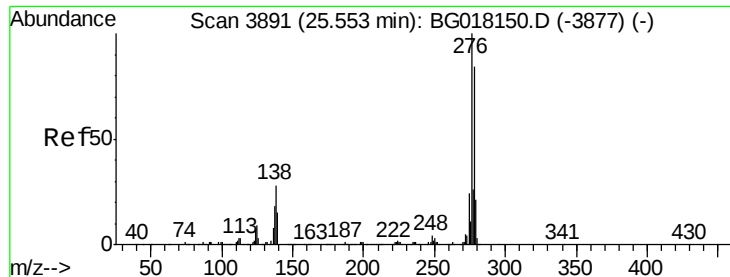


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 41.12 ng/ul

RT: 25.57 min Scan# 3895

Delta R.T. 0.02 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

Instrument :

BNA_G

ClientSampleId :

C02F0

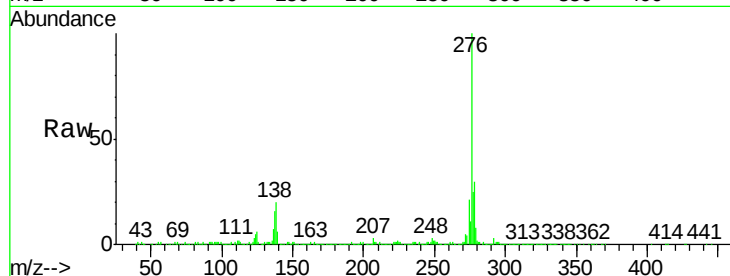
Tgt Ion:276 Resp: 681135

Ion Ratio Lower Upper

276 100

138 20.2 22.6 33.8#

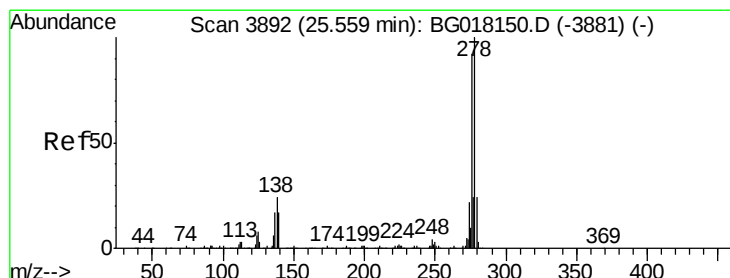
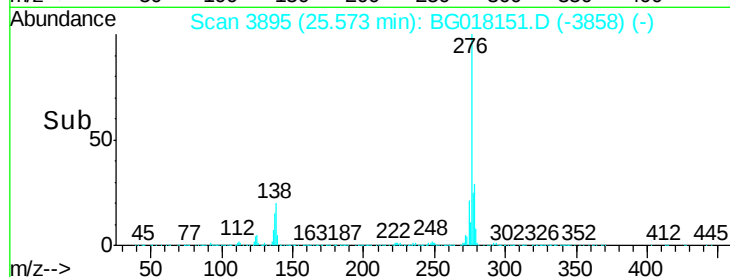
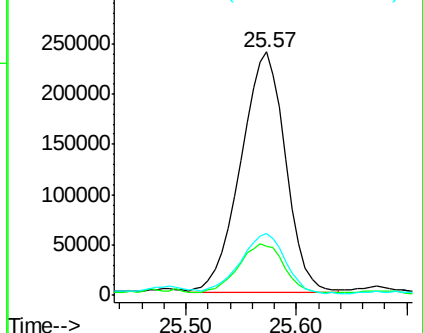
277 25.4 19.8 29.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#93

Dibenzo(a,h)anthracene

Concen: 14.95 ng/ul

RT: 25.57 min Scan# 3895

Delta R.T. 0.01 min

Lab File: BG018151.D

Acq: 28 Jul 2015 18:01

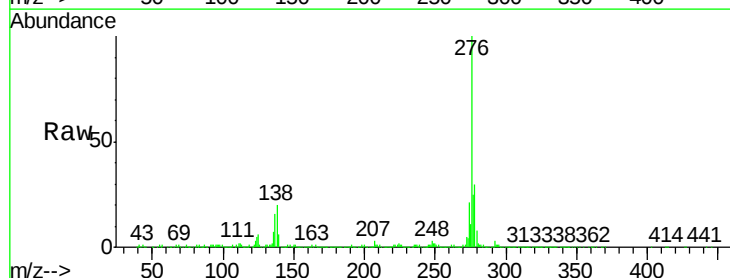
Tgt Ion:278 Resp: 211427

Ion Ratio Lower Upper

278 100

139 18.5 13.7 20.5

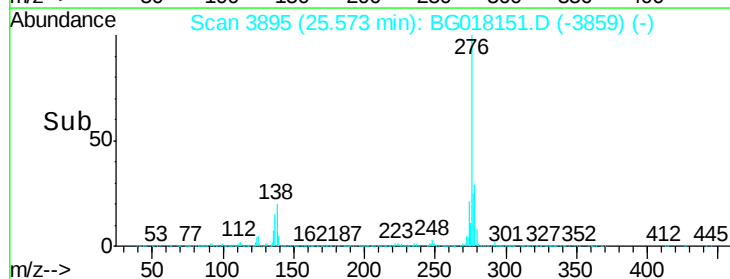
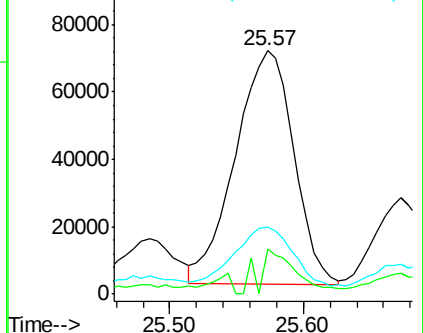
279 27.8 18.1 27.1#

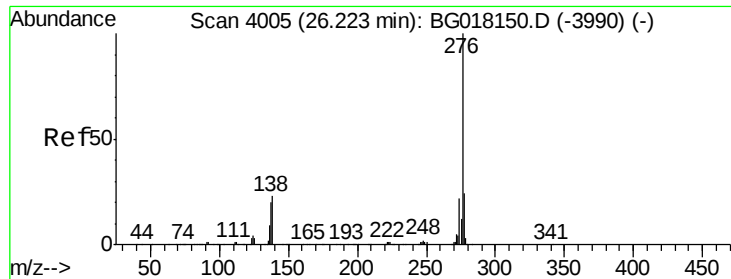


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(g,h,i)perylene

Concen: 42.24 ng/ul

RT: 26.25 min Scan# 4011

Delta R.T. 0.03 min

Lab File: BG018151.D

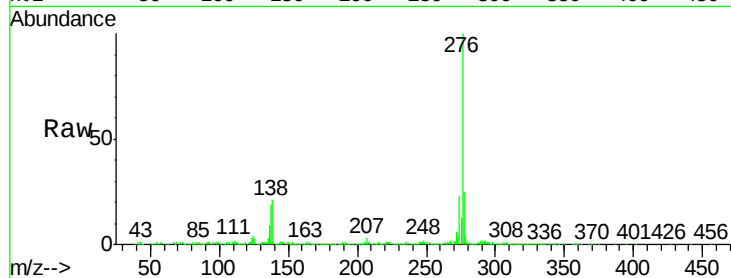
Acq: 28 Jul 2015 18:01

Instrument :

BNA_G

ClientSampleId :

C02F0



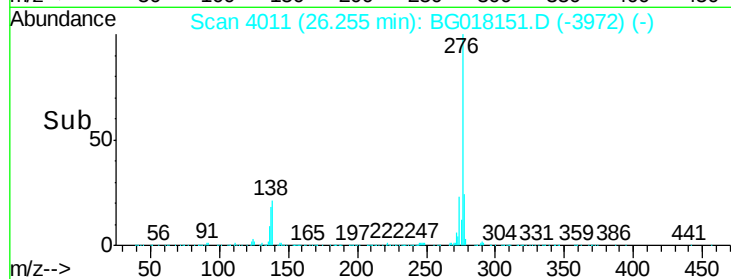
Tgt Ion: 276 Resp: 578138

Ion Ratio Lower Upper

276 100

138 21.1 18.8 28.2

277 25.0 19.3 28.9



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

