

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG080515\
 Data File : BG018295.D
 Acq On : 6 Aug 2015 5:36
 Operator : UM/TP
 Sample : G3109-12RE
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C01P8RE

Quant Time: Aug 06 06:59:03 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 06 03:42:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.45	152	53657	20.00	ng/ul	0.02
18) Naphthalene-d8	10.23	136	223395	20.00	ng/ul	0.02
36) Acenaphthene-d10	14.13	164	112271	20.00	ng/ul	0.02
62) Phenanthrene-d10	16.82	188	129977	20.00	ng/ul	-0.05
78) Chrysene-d12	21.01	240	4239	20.00	ng/ul	-0.07
86) Perylene-d12	23.17	264	2844	20.00	ng/ul	-0.07

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.91	96	722	1.16	ng/uL	0.00
5) Phenol-d5	6.66	99	38884	9.21	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.79	67	21517	10.55	ng/ul	0.01
9) 2-Chlorophenol-d4	6.99	132	34818	9.91	ng/ul	0.02
13) 4-Methylphenol-d8	8.19	113	33904	9.52	ng/ul	0.02
19) Nitrobenzene-d5	8.60	128	19803	11.45	ng/ul	0.02
22) 2-Nitrophenol-d4	9.32	143	19525	9.76	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	9.88	165	35839	9.74	ng/ul	0.02
29) 4-Chloroaniline-d4	10.38	131	22883	5.19	ng/ul	0.02
44) Dimethylphthalate-d6	13.54	166	106126	12.22	ng/ul	0.02
47) Acenaphthylene-d8	13.82	160	119331	12.12	ng/ul	0.02
52) 4-Nitrophenol-d4	14.38	143	229	0.16	ng/ul	0.01
58) Fluorene-d10	15.14	176	80225	10.28	ng/ul	0.02
63) 4,6-Dinitro-2-methylphenol	15.21	200	240	0.27	ng/ul	-0.05
71) Anthracene-d10	16.90	188	180777	31.62	ng/ul	-0.07
79) Pyrene-d10	19.21	212	5333	22.48	ng/ul	-0.07
90) Benzo(a)pyrene-d12	23.02	264	3279	22.16	ng/ul	-0.08

Target Compounds

						Qvalue
4) Benzaldehyde	6.59	77	14080	6.53	ng/ul#	1
8) Bis(2-Chloroethyl)ether	6.87	93	4137	1.35	ng/ul#	38
11) 2-Methylphenol	7.92	108	4490	1.31	ng/ul	98
14) Acetophenone	8.24	105	23073	4.03	ng/ul#	61
16) 4-Methylphenol	8.25	108	20825	5.43	ng/ul	94
24) 2,4-Dimethylphenol	9.48	107	34467	7.66	ng/ul	92
28) Naphthalene	10.28	128	169612	16.15	ng/ul#	96
34) 2-Methylnaphthalene	11.91	142	79712	9.46	ng/ul	98
35) 1-Methylnaphthalene	12.13	142	55490	6.81	ng/ul	98
41) 1,1'-Biphenyl	12.95	154	40559	5.24	ng/ul	97
45) Dimethylphthalate	13.59	163	64786	7.48	ng/ul#	96
50) Acenaphthene	14.20	153	82203	12.53	ng/ul	97
54) Dibenzofuran	14.54	168	74983	7.76	ng/ul	98
59) Fluorene	15.19	166	88170	10.40	ng/ul#	89
65) N-Nitrosodiphenylamine	15.37	169	7141	2.09	ng/ul#	63
70) Phenanthrene	16.95	178	470010	71.65	ng/ul	99
72) Anthracene	16.95	178	470777	71.92	ng/ul	99
80) Pyrene	19.27	202	2180	7.40	ng/ul#	32
81) Butylbenzylphthalate	20.15	149	50129	438.57	ng/ul#	55
82) 3,3'-Dichlorobenzidine	20.92	252	24389	265.73	ng/ul#	44
83) Benzo(a)anthracene	20.98	228	1672	7.47	ng/ul#	1
84) Bis(2-ethylhexyl)phthalate	20.92	149	9289	67.52	ng/ul#	48
85) Chrysene	21.06	228	16190	80.53	ng/ul#	1

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Misc :
ALS Vial : 24 Sample Multiplier: 1

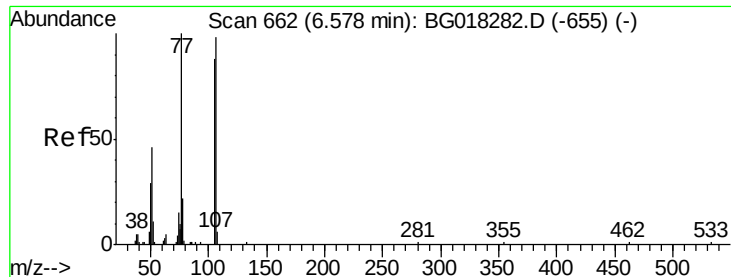
Instrument :
BNA_G
ClientSampleId :
C01P8RE

Quant Time: Aug 06 06:59:03 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 03:42:27 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Di-n-octyl phthalate	21.79	149	7836	41.82	ng/ul	100
88) Benzo(b)fluoranthene	22.53	252	2478	14.21	ng/ul#	1
89) Benzo(k)fluoranthene	22.55	252	1750	10.46	ng/ul#	1
91) Benzo(a)pyrene	23.05	252	72069	473.24	ng/ul#	1
92) Indeno(1,2,3-cd)pyrene	25.33	276	1959	10.40	ng/ul#	1
93) Dibenzo(a,h)anthracene	25.35	278	1248	7.55	ng/ul#	1
94) Benzo(g,h,i)perylene	25.99	276	1365	8.93	ng/ul#	1

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

```
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Misc      :  
ALS Vial  : 24    Sample Multiplier: 1
```



#4

Benzaldehyde

Concen: 6.53 ng/ul

RT: 6.59 min Scan# 664

Delta R.T. 0.01 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

C01P8RE

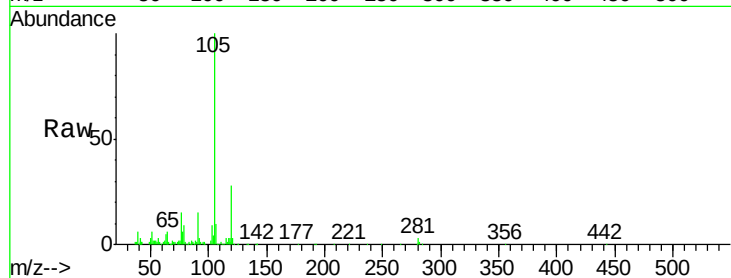
Tgt Ion: 77 Resp: 14080

Ion Ratio Lower Upper

77 100

105 672.6 74.6 112.0#

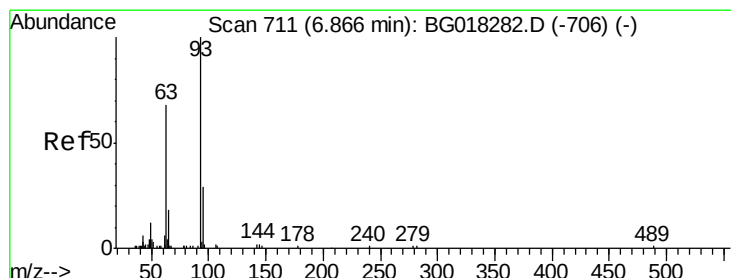
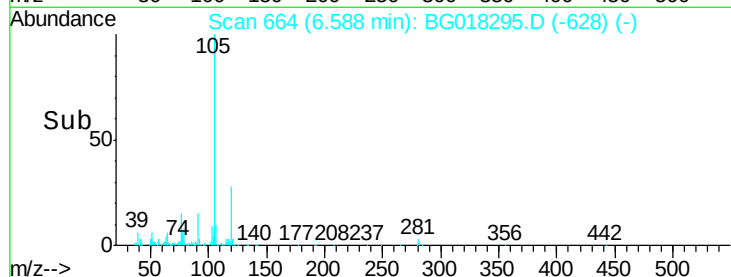
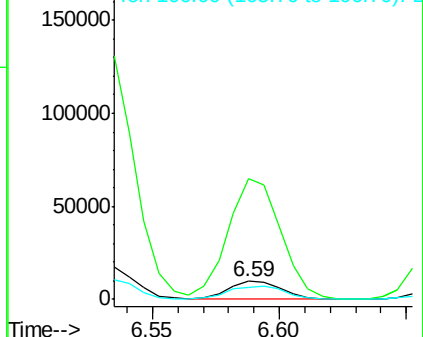
106 66.1 79.8 119.8#



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC



#8

Bis(2-Chloroethyl)ether

Concen: 1.35 ng/ul

RT: 6.87 min Scan# 712

Delta R.T. 0.00 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

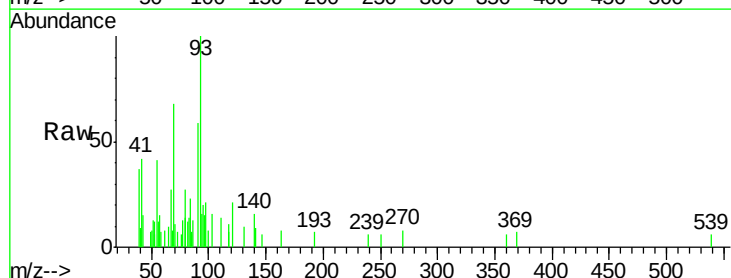
Tgt Ion: 93 Resp: 4137

Ion Ratio Lower Upper

93 100

63 0.0 51.4 77.0#

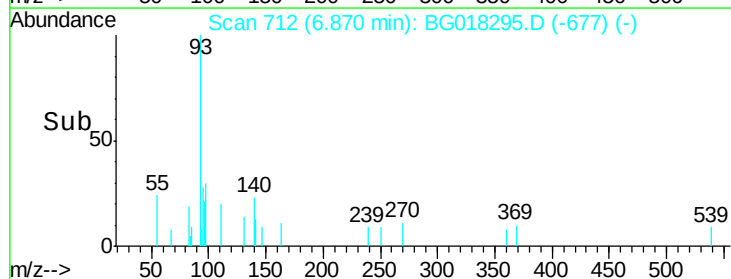
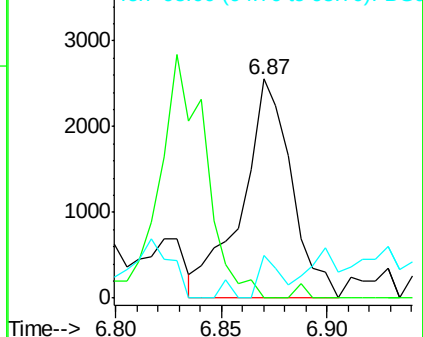
95 19.5 25.2 37.8#

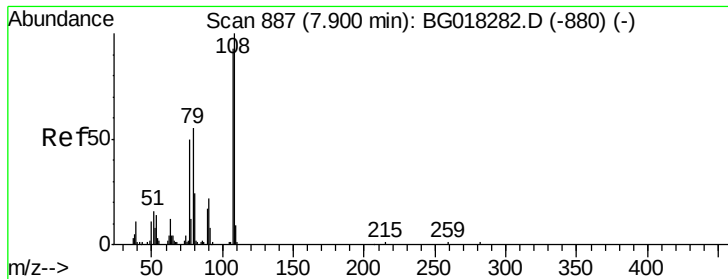


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

Ion 95.00 (94.70 to 95.70): BGC

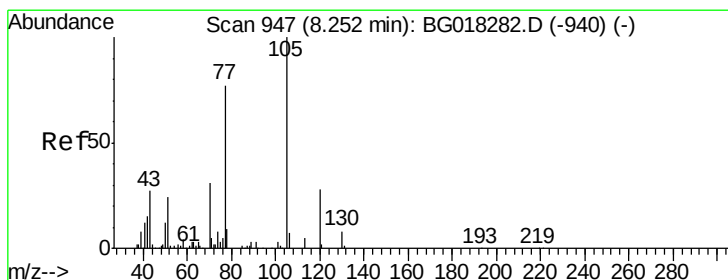
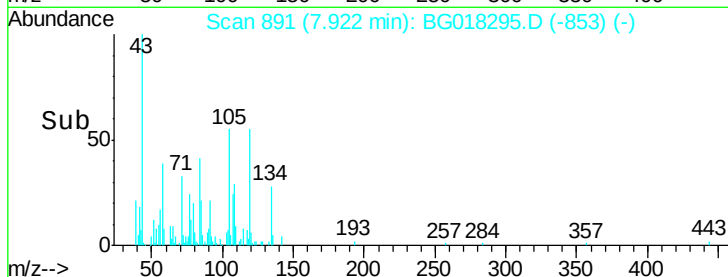
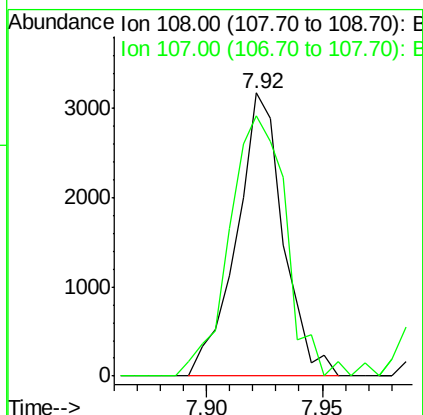
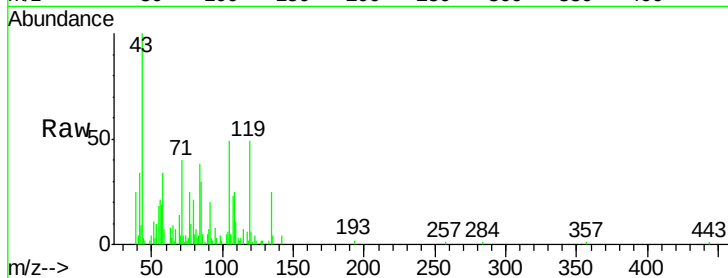




#11
 2-Methylphenol
 Concen: 1.31 ng/ul
 RT: 7.92 min Scan# 891
 Delta R.T. 0.02 min
 Lab File: BG018295.D
 Acq: 6 Aug 2015 5:36

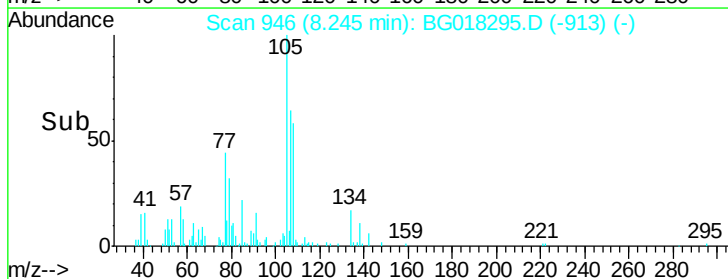
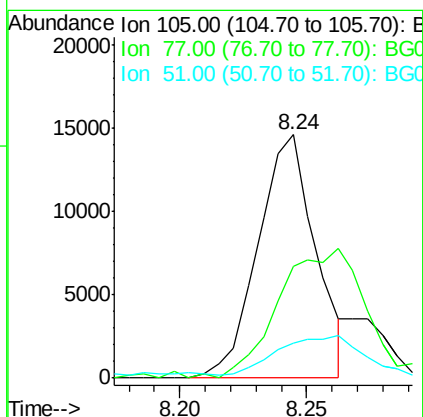
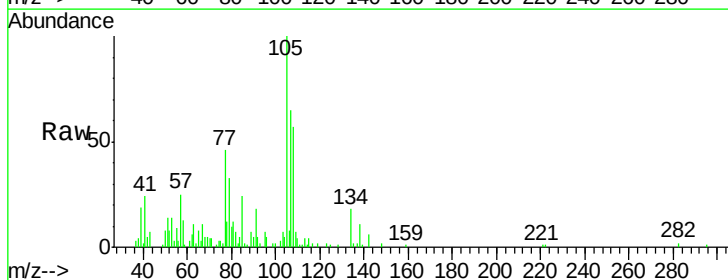
Instrument :
 BNA_G
 ClientSampleId :
 C01P8RE

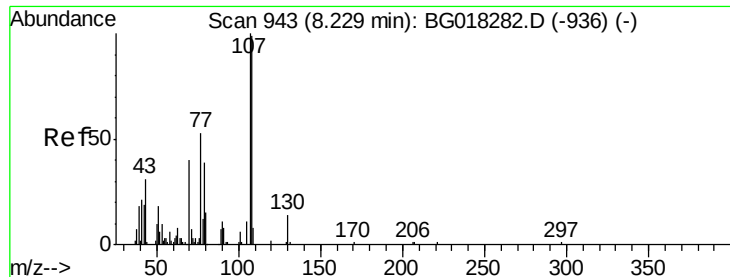
Tgt Ion:108 Resp: 4490
 Ion Ratio Lower Upper
 108 100
 107 92.2 72.2 108.4



#14
 Acetophenone
 Concen: 4.03 ng/ul
 RT: 8.24 min Scan# 946
 Delta R.T. -0.01 min
 Lab File: BG018295.D
 Acq: 6 Aug 2015 5:36

Tgt Ion:105 Resp: 23073
 Ion Ratio Lower Upper
 105 100
 77 45.7 67.5 101.3#
 51 14.2 23.6 35.4#

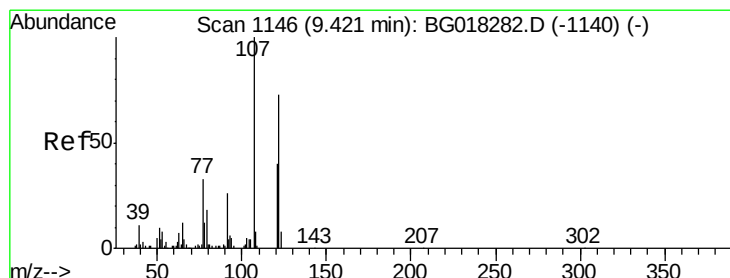
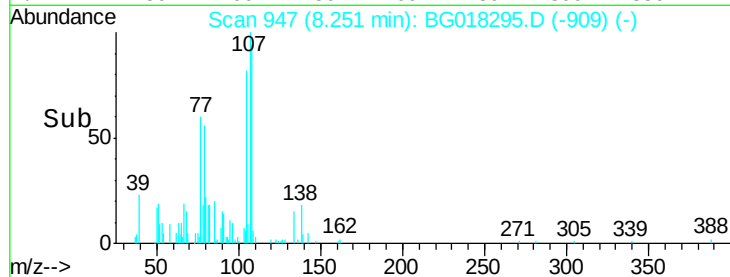
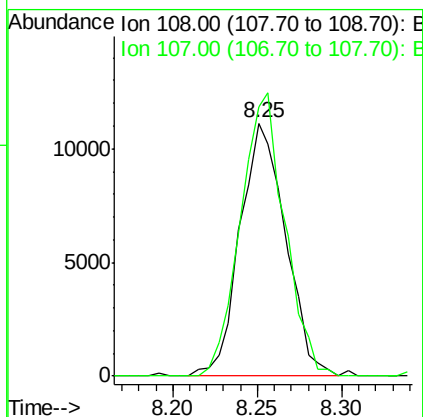
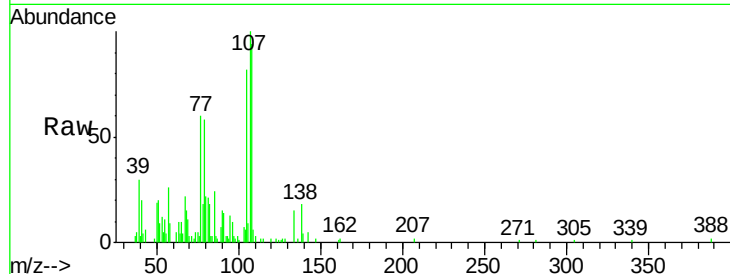




#16
 4-Methylphenol
 Concen: 5.43 ng/ul
 RT: 8.25 min Scan# 947
 Delta R.T. 0.02 min
 Lab File: BG018295.D
 Acq: 6 Aug 2015 5:36

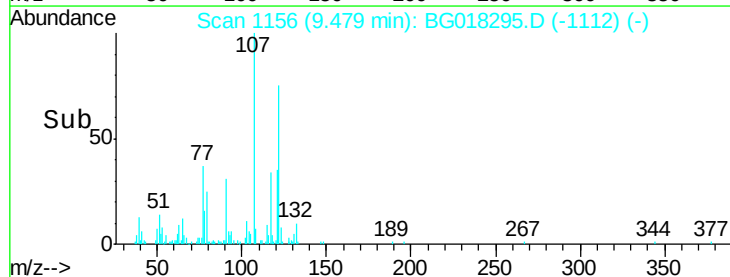
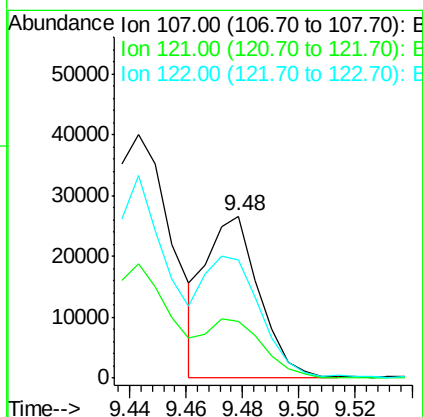
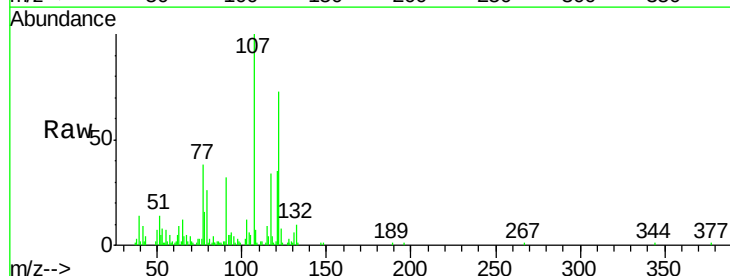
Instrument :
 BNA_G
 ClientSampleId :
 C01P8RE

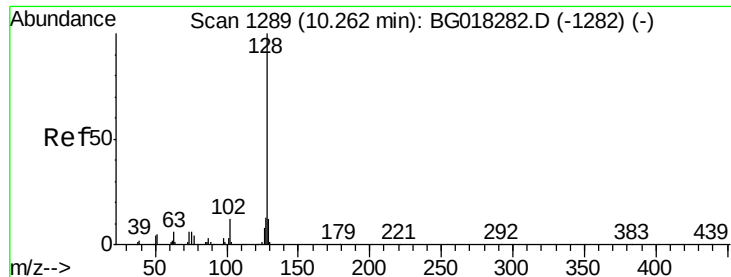
Tgt Ion:108 Resp: 20825
 Ion Ratio Lower Upper
 108 100
 107 106.3 89.9 134.9



#24
 2,4-Dimethylphenol
 Concen: 7.66 ng/ul
 RT: 9.48 min Scan# 1156
 Delta R.T. 0.06 min
 Lab File: BG018295.D
 Acq: 6 Aug 2015 5:36

Tgt Ion:107 Resp: 34467
 Ion Ratio Lower Upper
 107 100
 121 35.4 34.8 52.2
 122 73.0 55.5 83.3

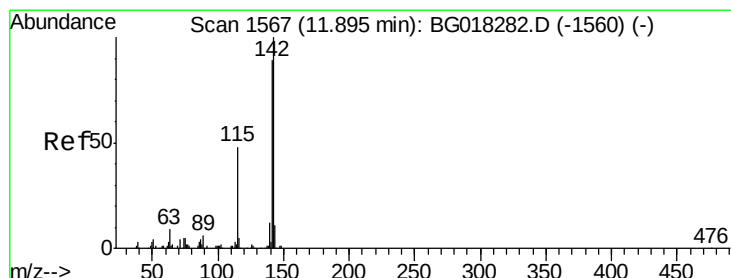
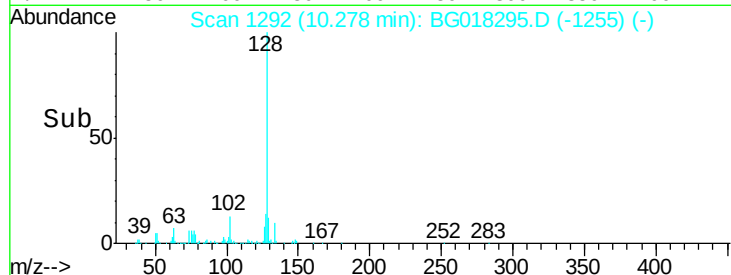
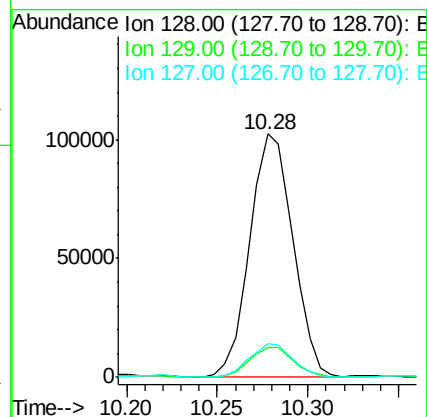
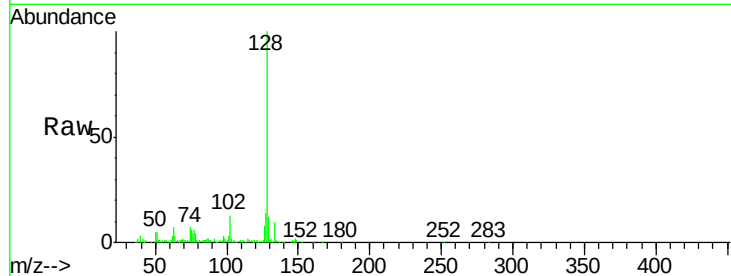




#28
Naphthalene
Concen: 16.15 ng/ul
RT: 10.28 min Scan# 1292
Delta R.T. 0.02 min
Lab File: BG018295.D
Acq: 6 Aug 2015 5:36

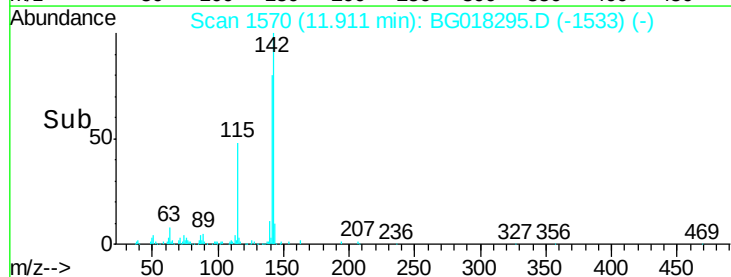
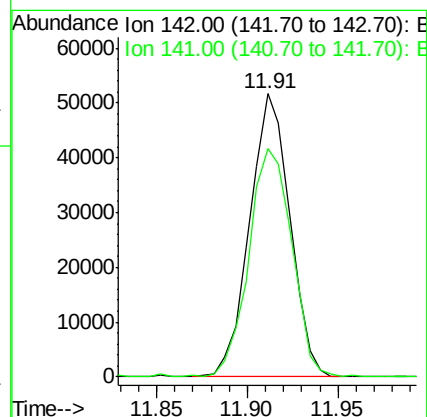
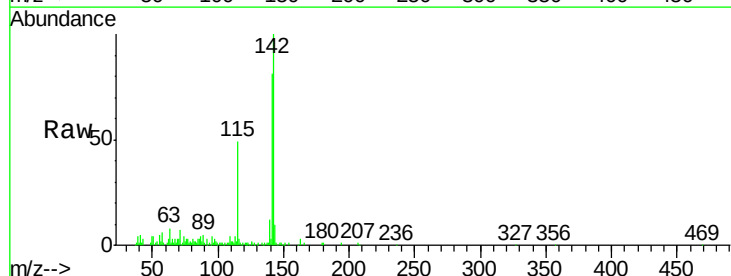
Instrument :
BNA_G
ClientSampleId :
C01P8RE

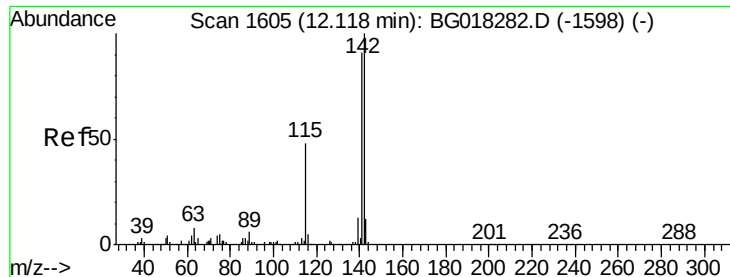
Tgt Ion:128 Resp: 169612
Ion Ratio Lower Upper
128 100
129 12.0 7.8 11.6#
127 13.8 10.2 15.4



#34
2-Methylnaphthalene
Concen: 9.46 ng/ul
RT: 11.91 min Scan# 1570
Delta R.T. 0.02 min
Lab File: BG018295.D
Acq: 6 Aug 2015 5:36

Tgt Ion:142 Resp: 79712
Ion Ratio Lower Upper
142 100
141 80.6 65.9 98.9

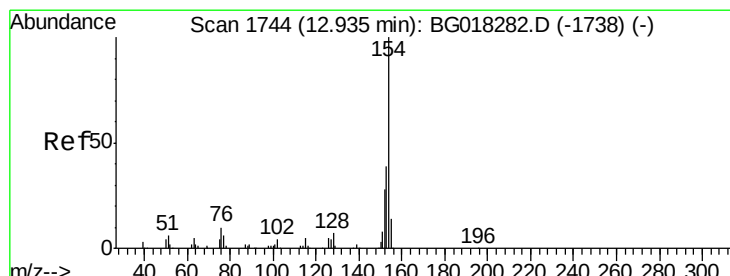
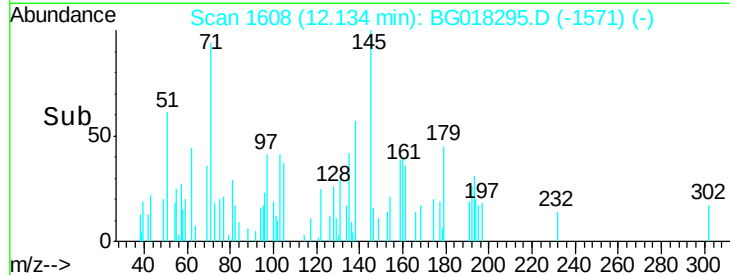
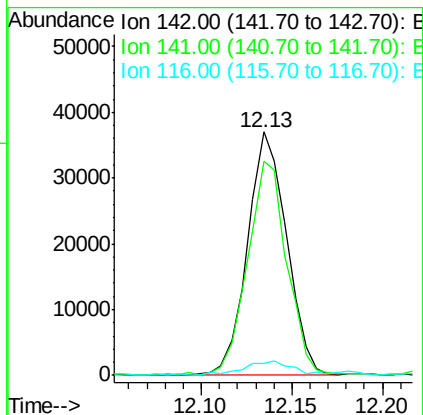
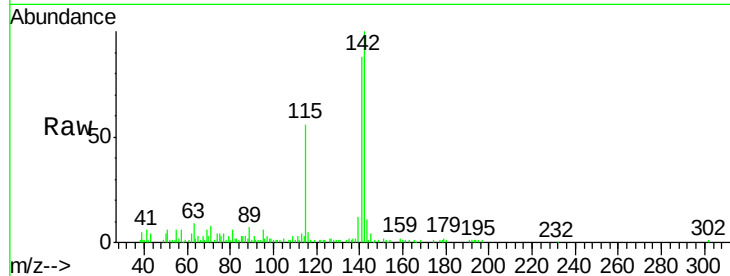




#35
 1-Methylnaphthalene
 Concen: 6.81 ng/ul
 RT: 12.13 min Scan# 1608
 Delta R.T. 0.02 min
 Lab File: BG018295.D
 Acq: 6 Aug 2015 5:36

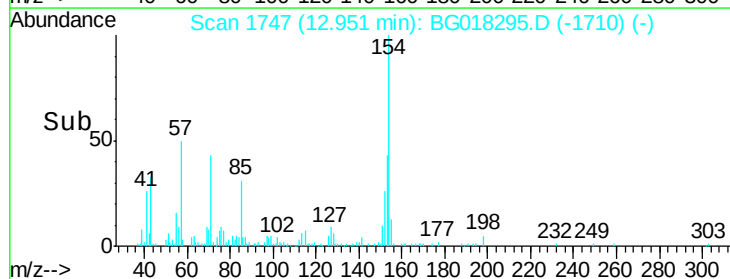
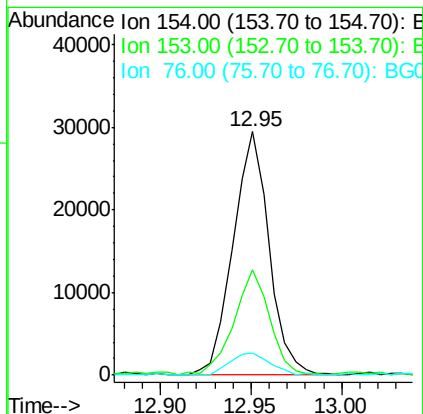
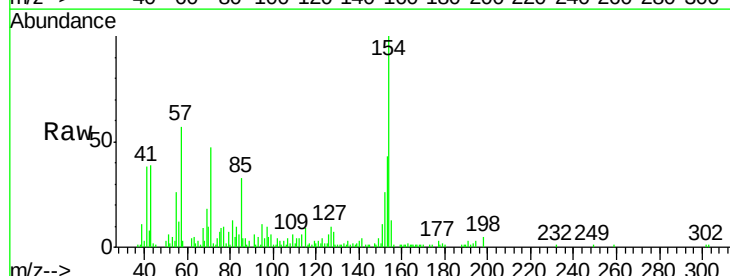
Instrument :
 BNA_G
 ClientSampleId :
 C01P8RE

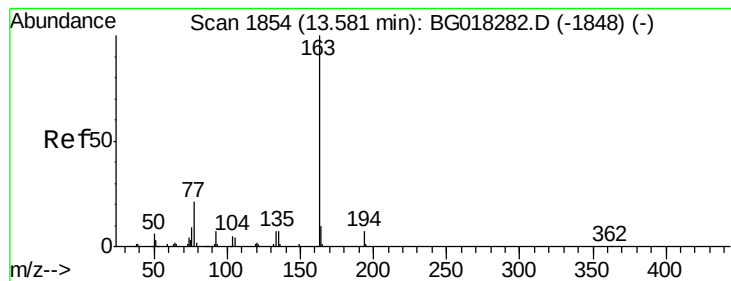
Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.1	69.0	103.4
116	4.8	4.2	6.4



#41
 1,1'-Biphenyl
 Concen: 5.24 ng/ul
 RT: 12.95 min Scan# 1747
 Delta R.T. 0.02 min
 Lab File: BG018295.D
 Acq: 6 Aug 2015 5:36

Tgt Ion	Ratio	Lower	Upper
154	100		
153	43.0	33.4	50.0
76	9.0	8.6	12.8





#45

Dimethylphthalate

Concen: 7.48 ng/ul

RT: 13.59 min Scan# 1856

Delta R.T. 0.01 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

C01P8RE

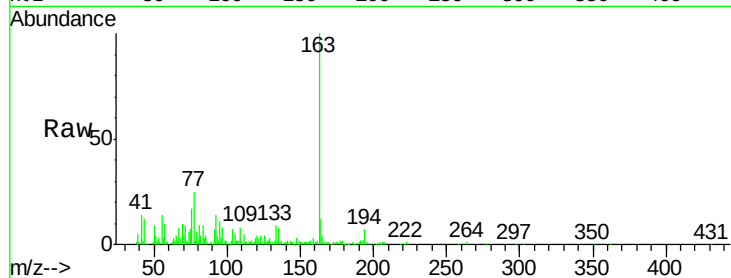
Tgt Ion:163 Resp: 64786

Ion Ratio Lower Upper

163 100

194 6.9 5.4 8.2

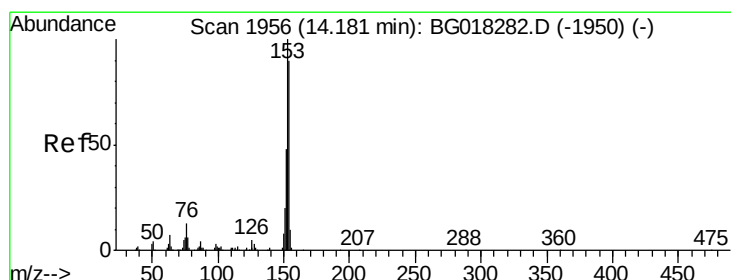
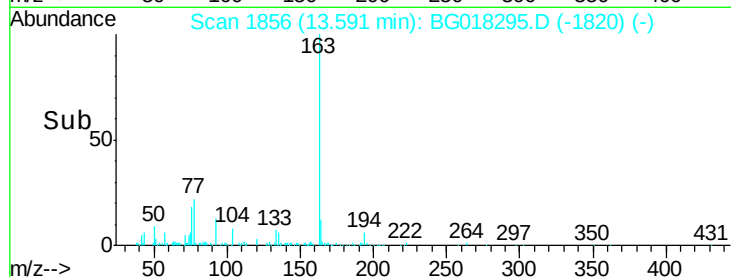
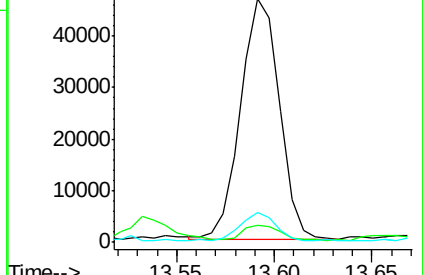
164 12.4 7.8 11.8#



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



#50

Acenaphthene

Concen: 12.53 ng/ul

RT: 14.20 min Scan# 1959

Delta R.T. 0.02 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

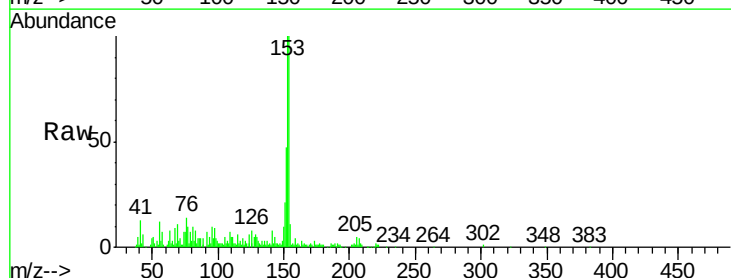
Tgt Ion:153 Resp: 82203

Ion Ratio Lower Upper

153 100

152 47.2 39.0 58.4

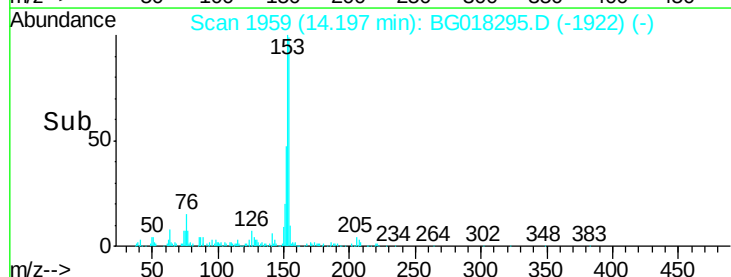
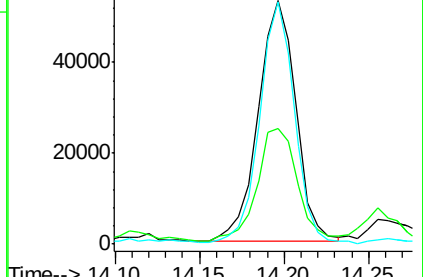
154 99.6 77.4 116.2

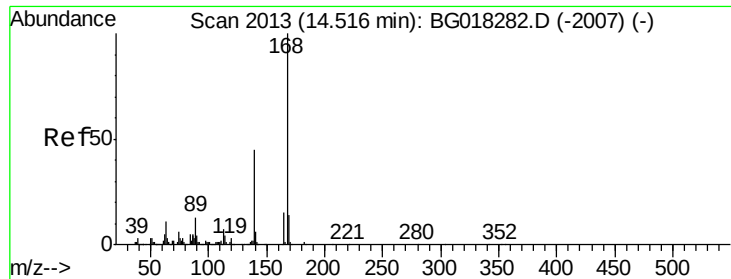


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzenofuran

Concen: 7.76 ng/ul

RT: 14.54 min Scan# 2017

Delta R.T. 0.02 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

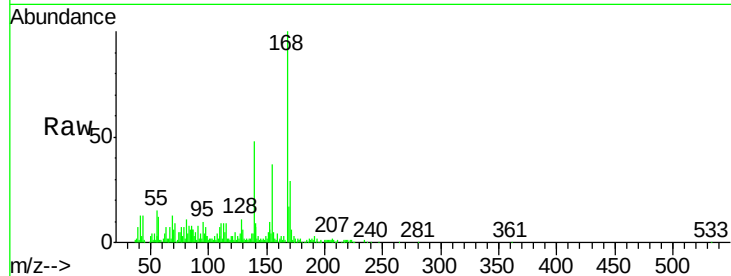
C01P8RE

Tgt Ion:168 Resp: 74983

Ion Ratio Lower Upper

168 100

139 47.9 37.1 55.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

60000

50000

40000

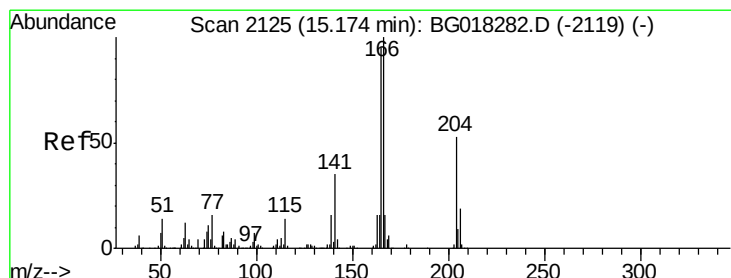
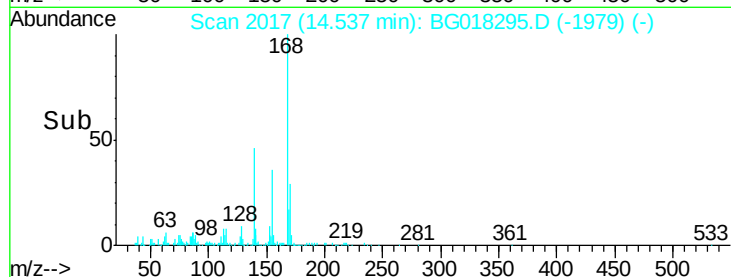
30000

20000

10000

0

Time-->



#59

Fluorene

Concen: 10.40 ng/ul

RT: 15.19 min Scan# 2128

Delta R.T. 0.02 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

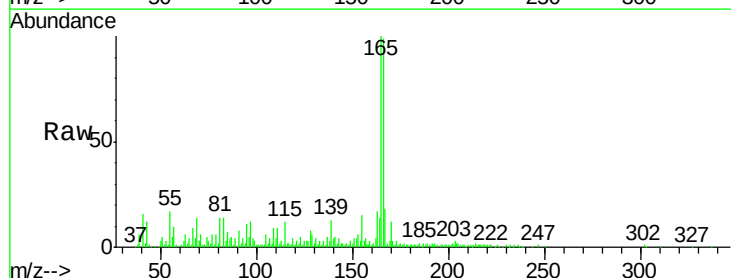
Tgt Ion:166 Resp: 88170

Ion Ratio Lower Upper

166 100

165 101.0 72.4 108.6

167 18.7 11.4 17.0#



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

80000

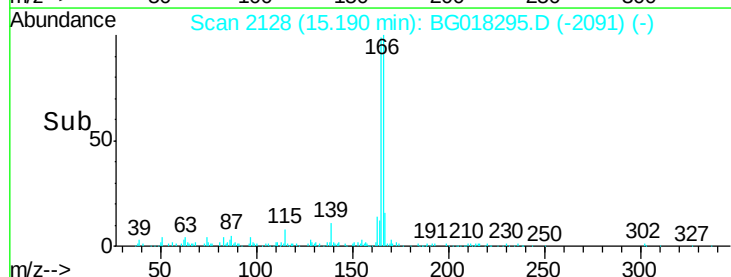
60000

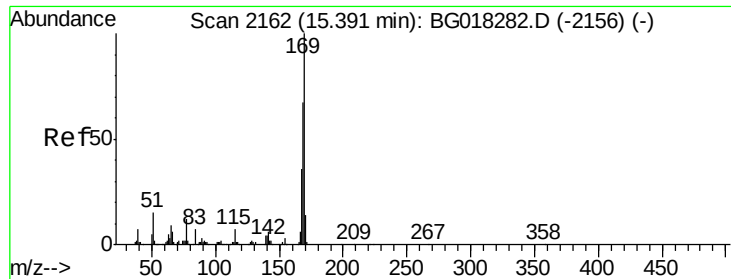
40000

20000

0

Time-->





#65

N-Nitrosodiphenylamine

Concen: 2.09 ng/ul

RT: 15.37 min Scan# 2159

Delta R.T. -0.02 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

C01P8RE

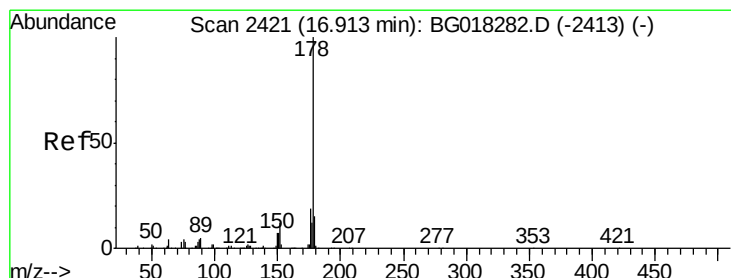
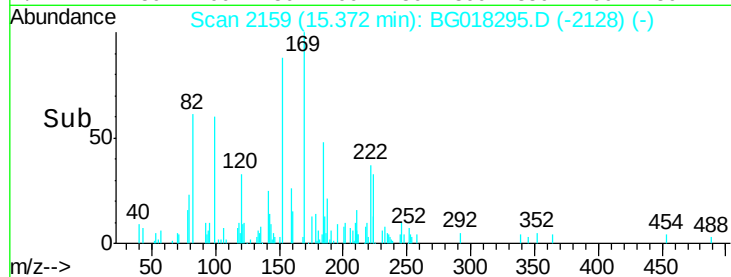
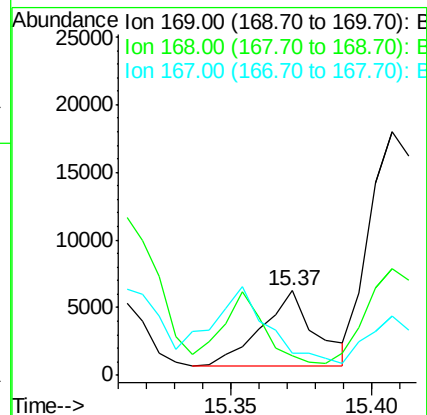
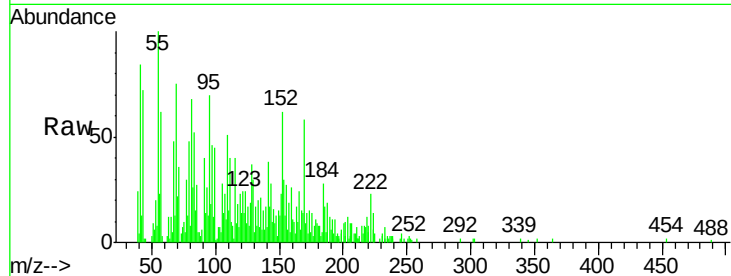
Tgt Ion:169 Resp: 7141

Ion Ratio Lower Upper

169 100

168 23.7 50.2 75.2#

167 26.4 27.3 40.9#



#70

Phenanthrene

Concen: 71.65 ng/ul

RT: 16.95 min Scan# 2428

Delta R.T. 0.04 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

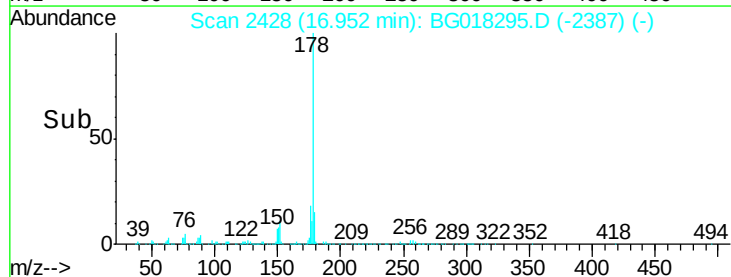
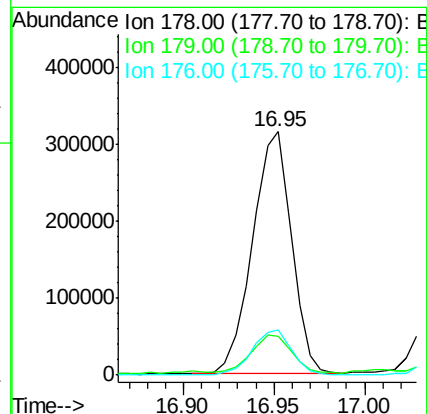
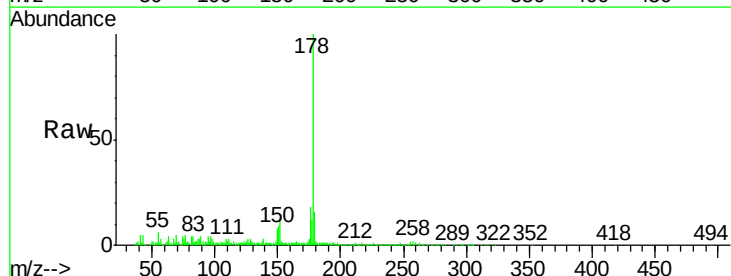
Tgt Ion:178 Resp: 470010

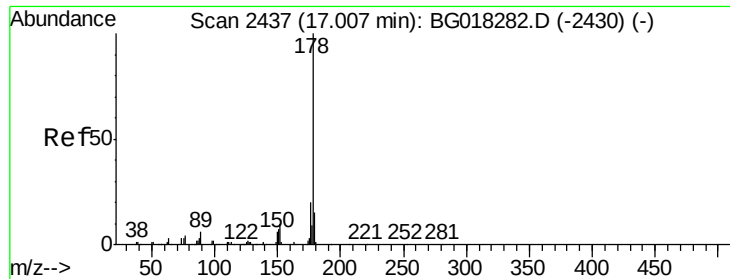
Ion Ratio Lower Upper

178 100

179 15.7 12.2 18.4

176 18.5 14.5 21.7





#72

Anthracene

Concen: 71.92 ng/ul

RT: 16.95 min Scan# 2428

Delta R.T. -0.05 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

C01P8RE

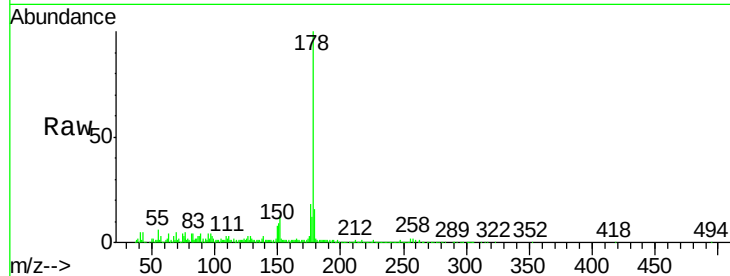
Tgt Ion:178 Resp: 470777

Ion Ratio Lower Upper

178 100

179 15.7 12.2 18.4

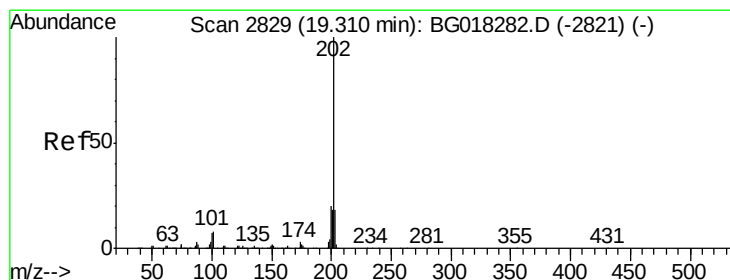
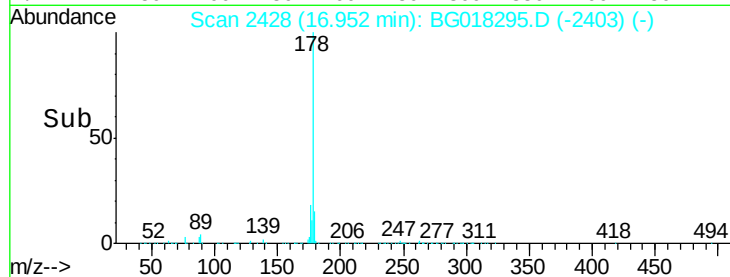
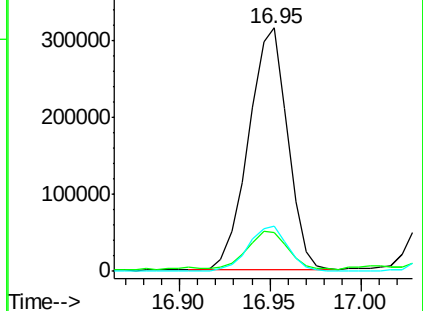
176 18.5 15.3 22.9



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



#80

Pyrene

Concen: 7.40 ng/ul

RT: 19.27 min Scan# 2822

Delta R.T. -0.04 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

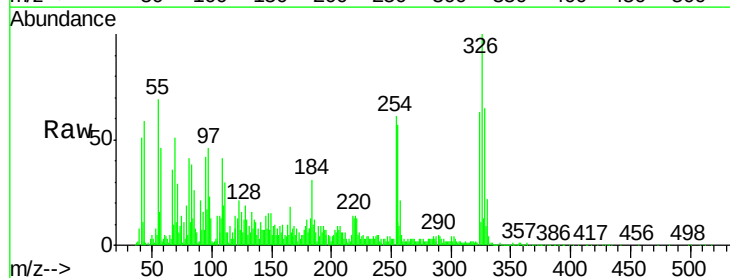
Tgt Ion:202 Resp: 2180

Ion Ratio Lower Upper

202 100

101 27.4 6.2 9.2#

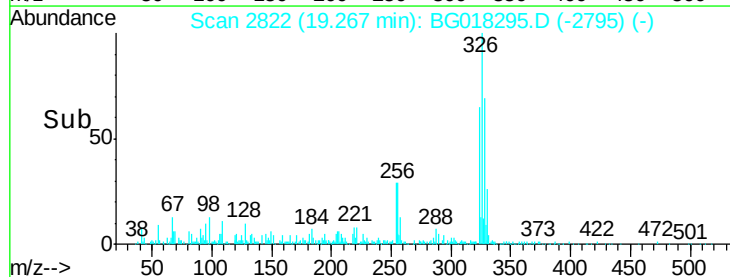
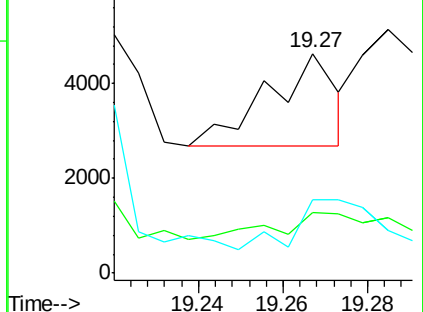
100 33.6 4.6 7.0#

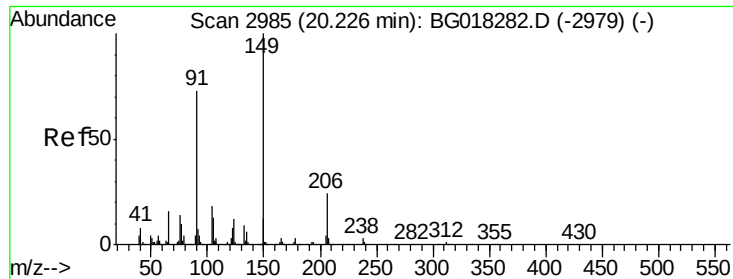


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

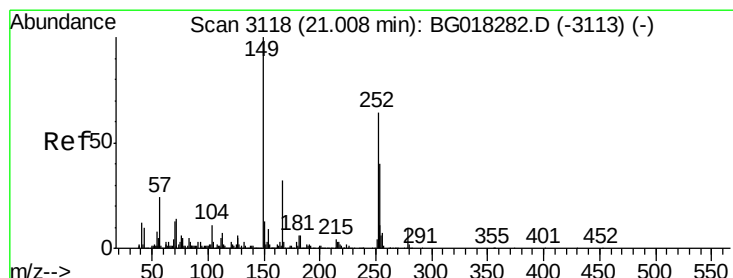
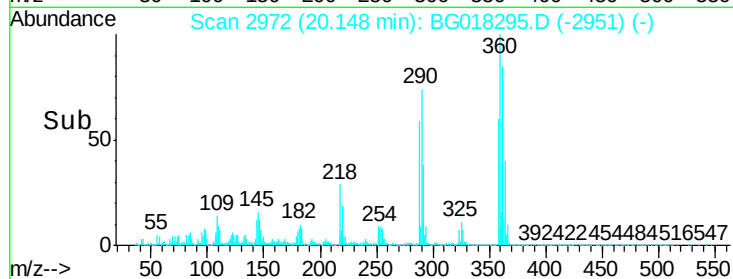
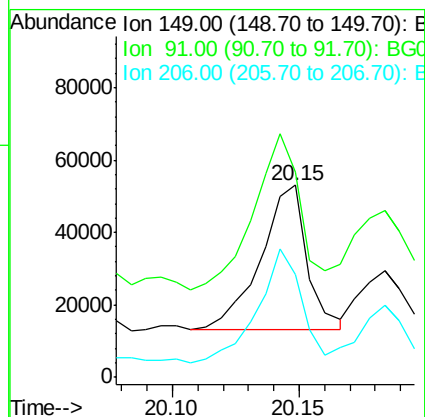
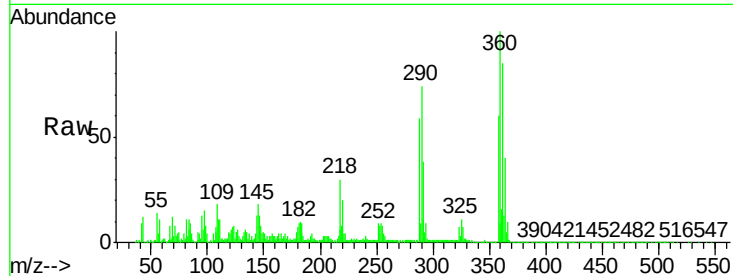




#81
Butylbenzylphthalate
Concen: 438.57 ng/ul
RT: 20.15 min Scan# 2972
Delta R.T. -0.08 min
Lab File: BG018295.D
Acq: 6 Aug 2015 5:36

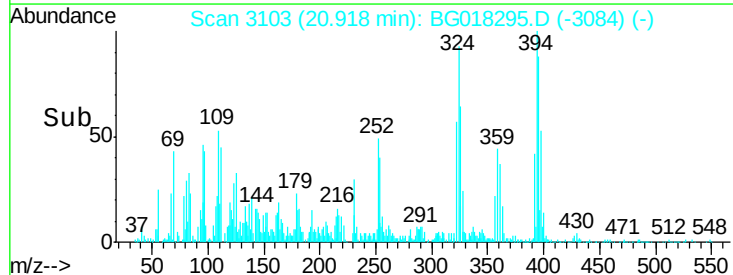
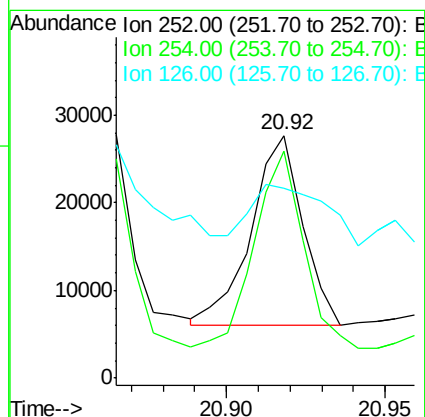
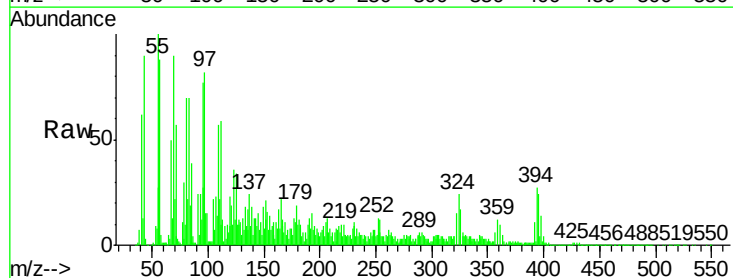
Instrument :
BNA_G
ClientSampleId :
C01P8RE

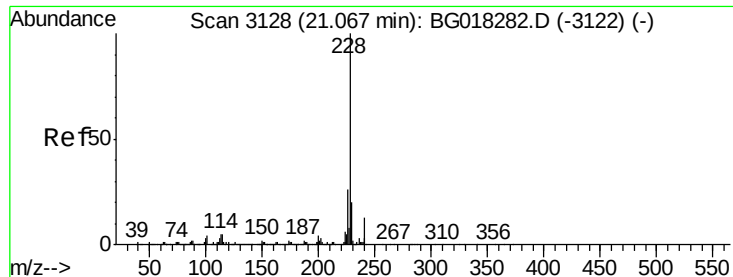
Tgt Ion:149 Resp: 50129
Ion Ratio Lower Upper
149 100
91 106.8 58.2 87.2#
206 53.8 19.9 29.9#



#82
3,3'-Dichlorobenzidine
Concen: 265.73 ng/ul
RT: 20.92 min Scan# 3103
Delta R.T. -0.09 min
Lab File: BG018295.D
Acq: 6 Aug 2015 5:36

Tgt Ion:252 Resp: 24389
Ion Ratio Lower Upper
252 100
254 93.5 50.0 75.0#
126 78.6 5.3 7.9#





#83

Benzo(a)anthracene

Concen: 7.47 ng/ul

RT: 20.98 min Scan# 3113

Delta R.T. -0.09 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

C01P8RE

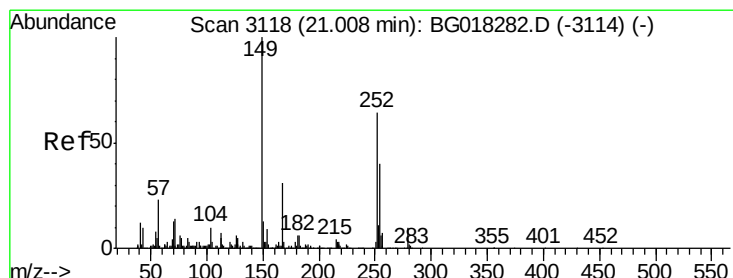
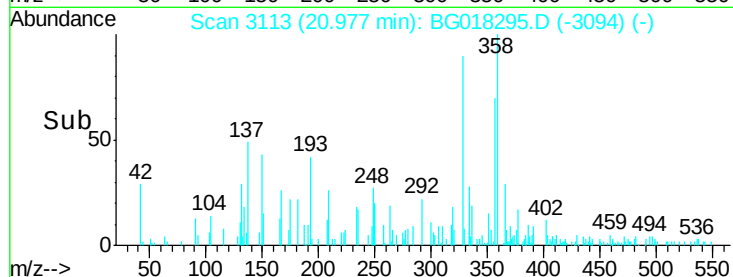
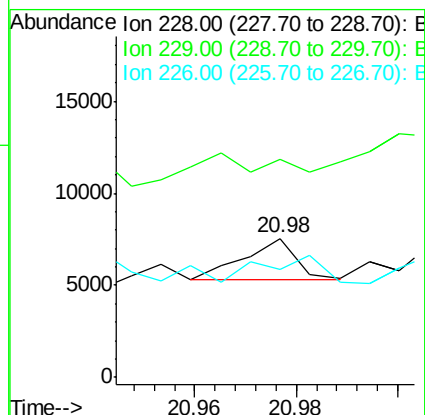
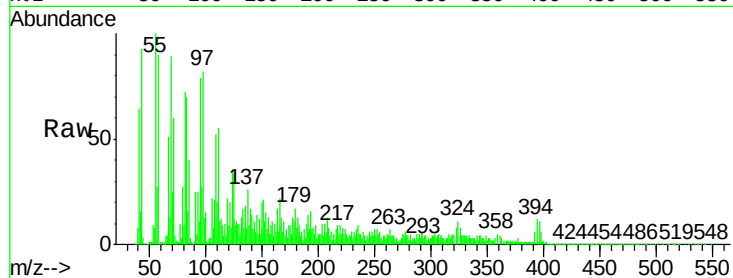
Tgt Ion:228 Resp: 1672

Ion Ratio Lower Upper

228 100

229 156.9 16.3 24.5#

226 77.8 21.2 31.8#



#84

Bis(2-ethylhexyl)phthalate

Concen: 67.52 ng/ul

RT: 20.92 min Scan# 3104

Delta R.T. -0.08 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

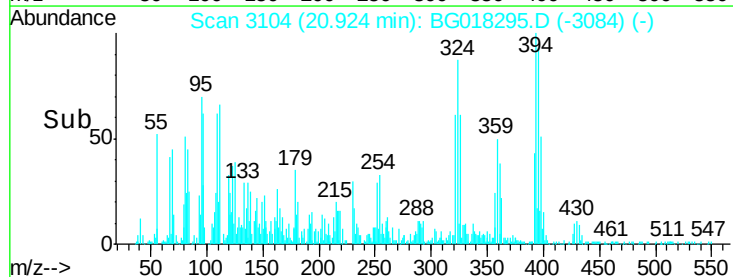
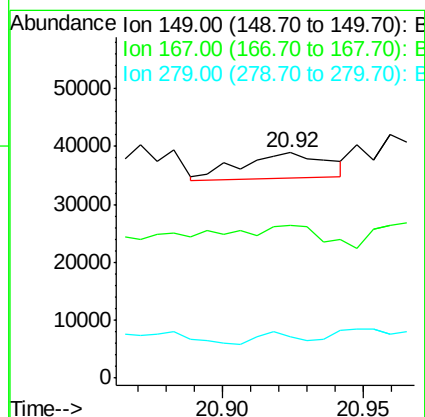
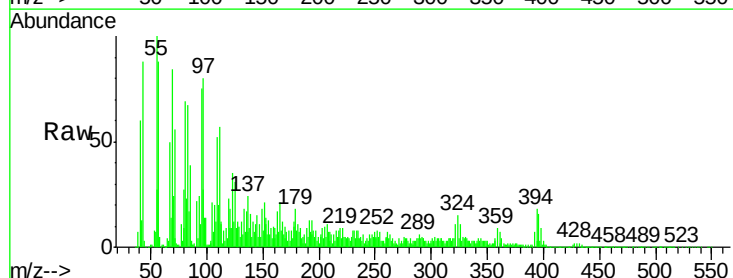
Tgt Ion:149 Resp: 9289

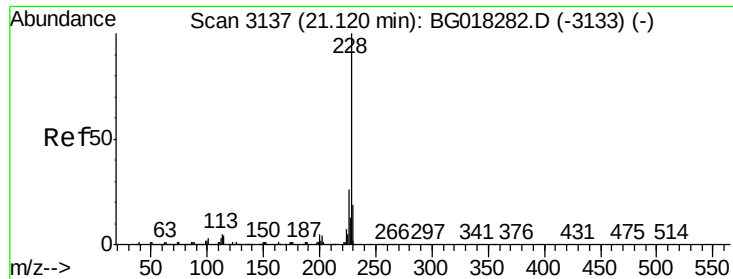
Ion Ratio Lower Upper

149 100

167 67.9 26.4 39.6#

279 18.6 8.6 12.8#





#85

Chrysene

Concen: 80.53 ng/ul

RT: 21.06 min Scan# 3127

Delta R.T. -0.06 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

C01P8RE

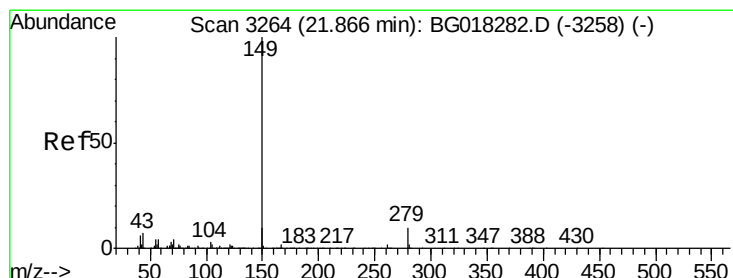
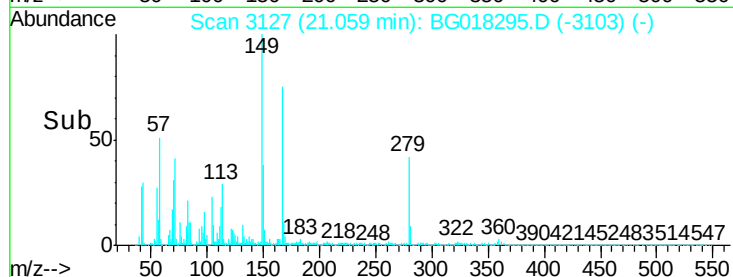
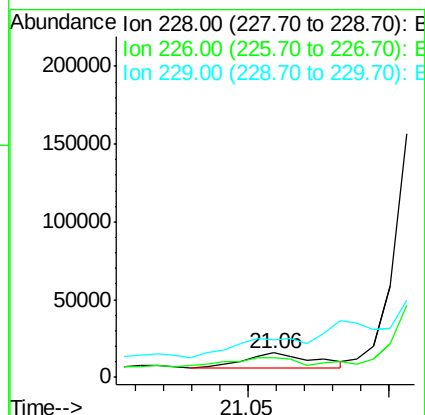
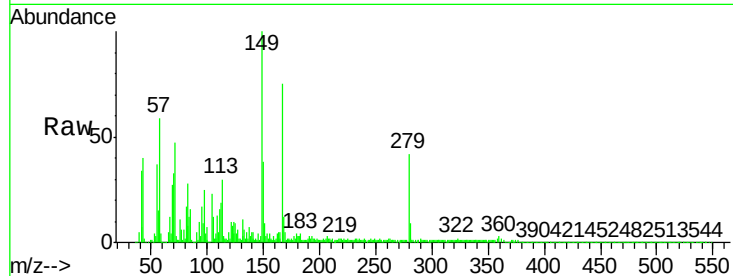
Tgt Ion:228 Resp: 16190

Ion Ratio Lower Upper

228 100

226 79.6 23.0 34.6#

229 154.5 15.9 23.9#



#87

Di-n-octyl phthalate

Concen: 41.82 ng/ul

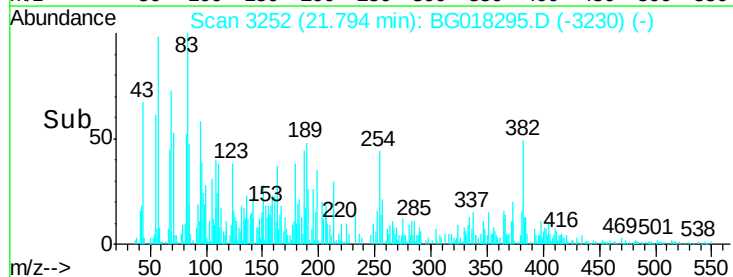
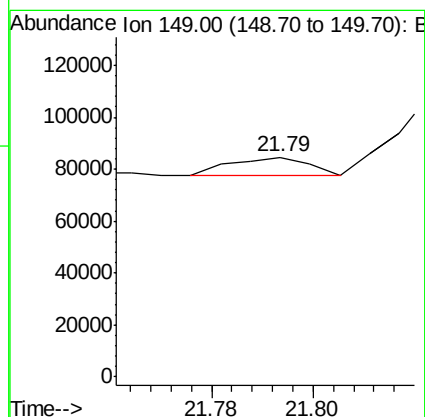
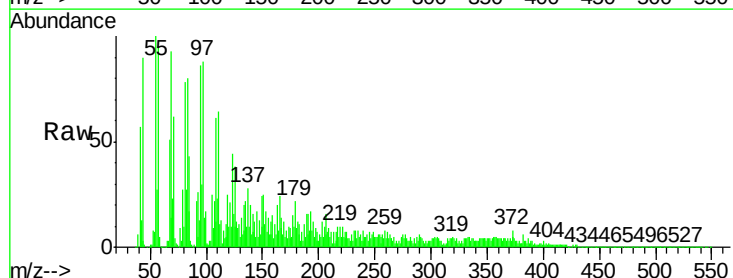
RT: 21.79 min Scan# 3252

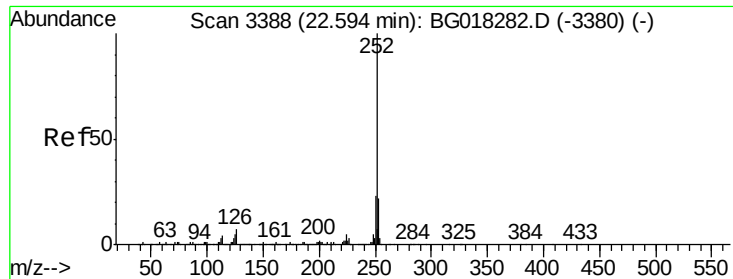
Delta R.T. -0.07 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Tgt Ion:149 Resp: 7836





#88

Benzo(b)fluoranthene

Concen: 14.21 ng/ul

RT: 22.53 min Scan# 3377

Delta R.T. -0.07 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

C01P8RE

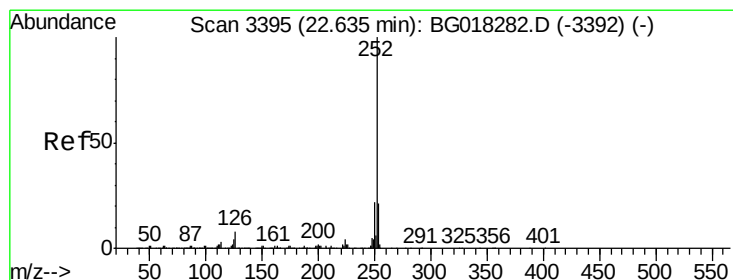
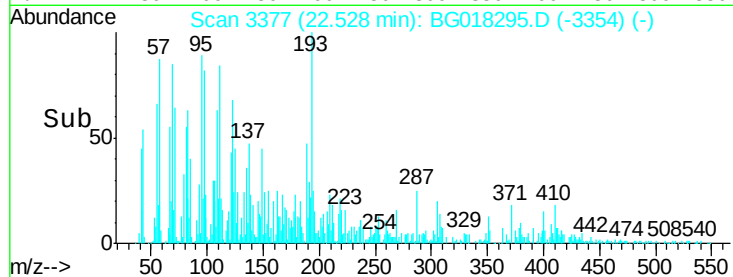
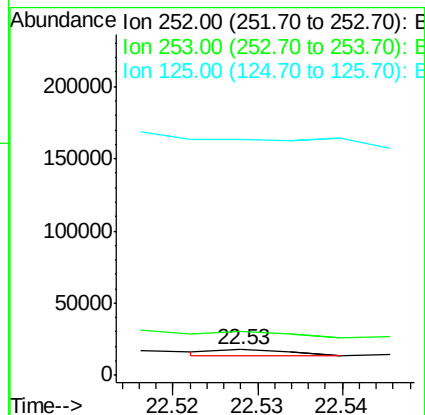
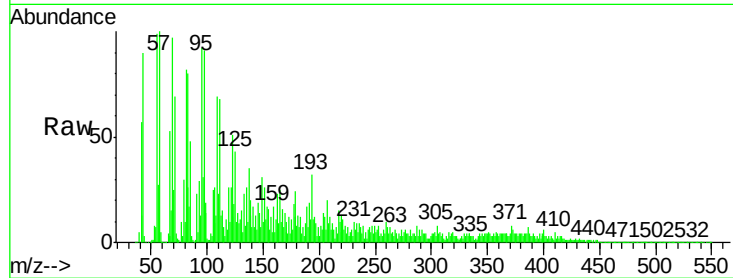
Tgt Ion:252 Resp: 2478

Ion Ratio Lower Upper

252 100

253 170.4 18.1 27.1#

125 908.9 3.1 4.7#



#89

Benzo(k)fluoranthene

Concen: 10.46 ng/ul

RT: 22.55 min Scan# 3381

Delta R.T. -0.08 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

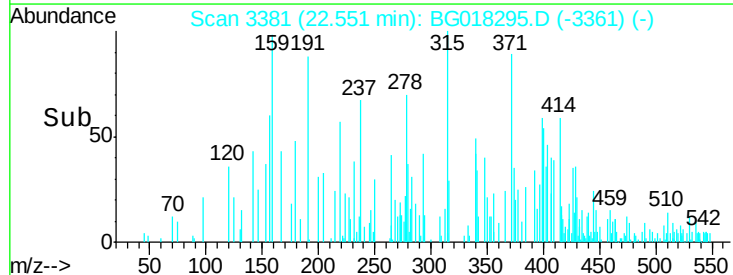
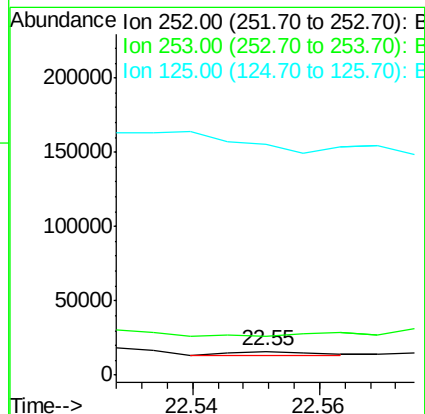
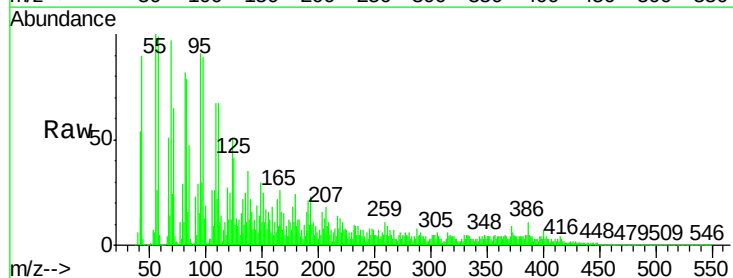
Tgt Ion:252 Resp: 1750

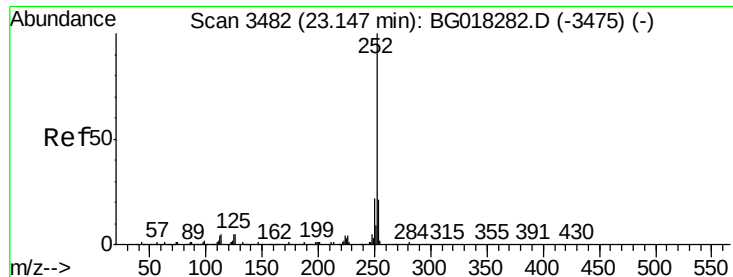
Ion Ratio Lower Upper

252 100

253 165.1 16.4 24.6#

125 965.8 3.4 5.2#





#91

Benzo(a)pyrene

Concen: 473.24 ng/ul

RT: 23.05 min Scan# 3466

Delta R.T. -0.10 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

C01P8RE

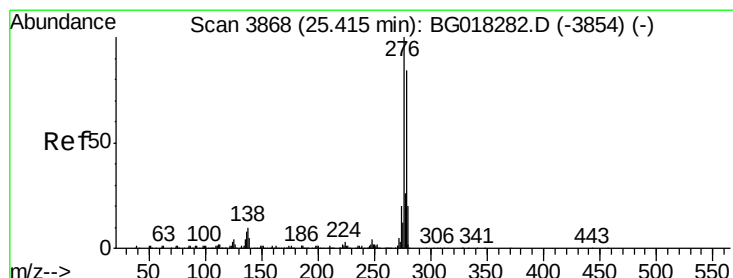
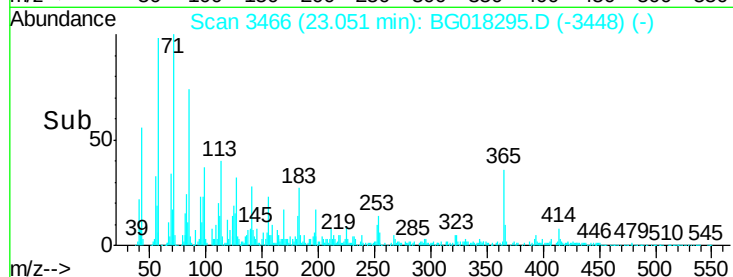
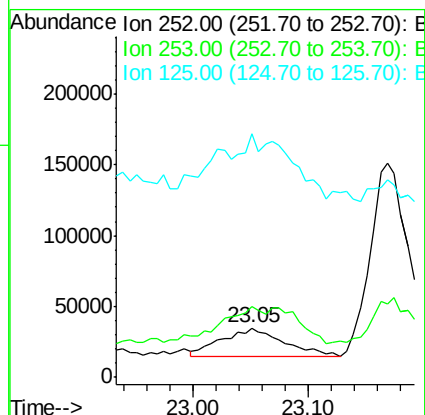
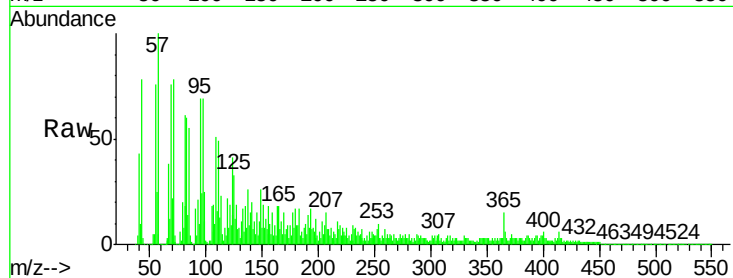
Tgt Ion:252 Resp: 72069

Ion Ratio Lower Upper

252 100

253 144.3 18.9 28.3#

125 495.4 3.2 4.8#



#92

Indeno(1,2,3-cd)pyrene

Concen: 10.40 ng/ul

RT: 25.33 min Scan# 3854

Delta R.T. -0.08 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

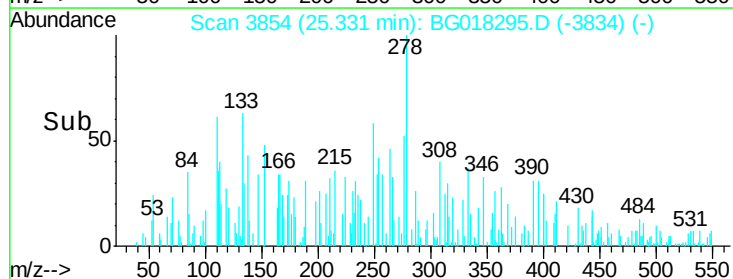
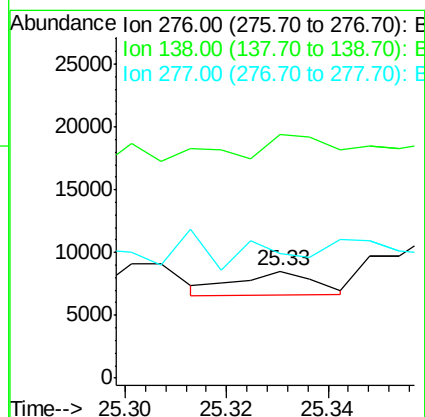
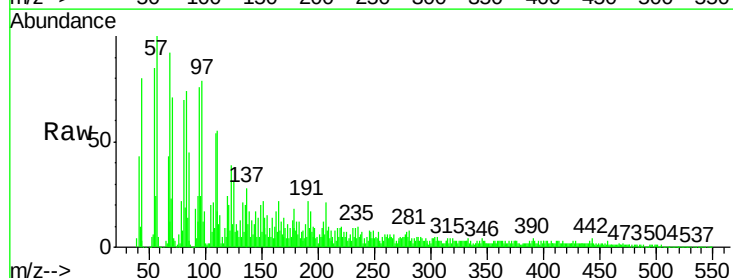
Tgt Ion:276 Resp: 1959

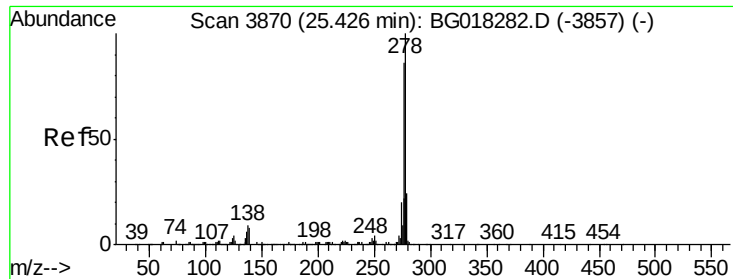
Ion Ratio Lower Upper

276 100

138 227.4 8.2 12.4#

277 116.4 20.1 30.1#





#93

Dibenzo(a,h)anthracene

Concen: 7.55 ng/ul

RT: 25.35 min Scan# 3857

Delta R.T. -0.08 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Instrument :

BNA_G

ClientSampleId :

C01P8RE

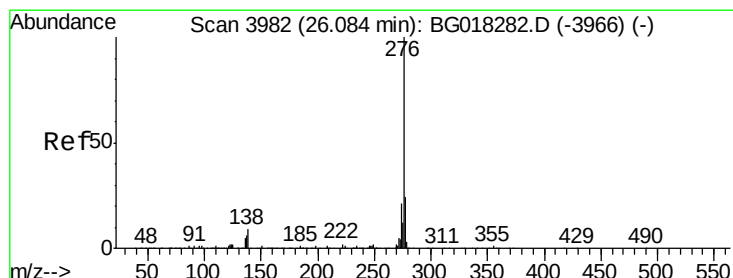
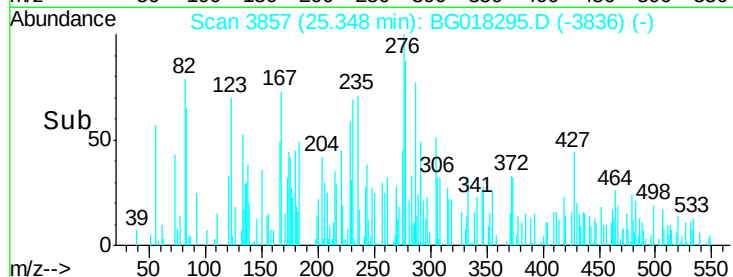
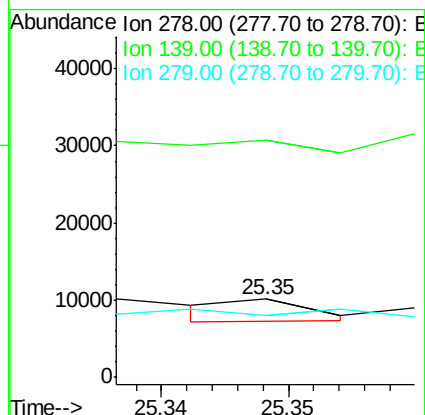
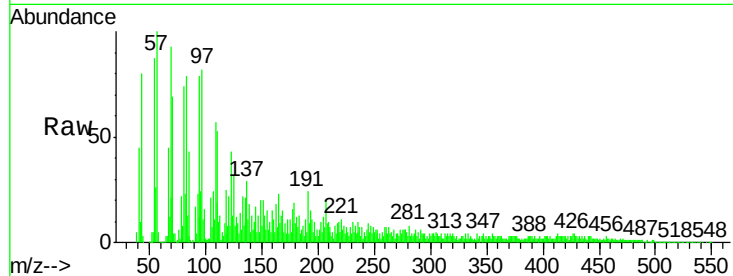
Tgt Ion:278 Resp: 1248

Ion Ratio Lower Upper

278 100

139 303.9 5.8 8.8#

279 79.4 19.8 29.6#



#94

Benzo(g,h,i)perylene

Concen: 8.93 ng/ul

RT: 25.99 min Scan# 3966

Delta R.T. -0.10 min

Lab File: BG018295.D

Acq: 6 Aug 2015 5:36

Tgt Ion:276 Resp: 1365

Ion Ratio Lower Upper

276 100

138 169.7 6.0 9.0#

277 114.4 21.1 31.7#

