

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG072715\
 Data File : BG018154.D
 Acq On : 28 Jul 2015 19:47
 Operator : TP/UM
 Sample : G3048-07
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C01X0

Quant Time: Jul 29 02:02:26 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG072315.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jul 29 01:59:28 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	49920	20.00	ng/ul	0.00
18) Naphthalene-d8	10.29	136	223024	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.18	164	132785	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.94	188	267206	20.00	ng/ul	0.01
78) Chrysene-d12	21.15	240	299468	20.00	ng/ul	0.00
86) Perylene-d12	23.35	264	311911	20.00	ng/ul	0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.01	96	1589	1.99	ng/uL	0.00
5) Phenol-d5	6.70	99	42024	10.91	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.85	67	21594	11.36	ng/ul	0.00
9) 2-Chlorophenol-d4	7.04	132	43095	12.62	ng/ul	0.00
13) 4-Methylphenol-d8	8.23	113	28611	8.38	ng/ul	0.00
19) Nitrobenzene-d5	8.66	128	23330	13.23	ng/ul	0.00
22) 2-Nitrophenol-d4	9.38	143	25465	13.68	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.92	165	40716	12.57	ng/ul	0.00
29) 4-Chloroaniline-d4	10.44	131	17771	4.71	ng/ul	0.00
44) Dimethylphthalate-d6	13.60	166	121469	13.03	ng/ul	0.00
47) Acenaphthylene-d8	13.87	160	151497	13.23	ng/ul	0.00
52) 4-Nitrophenol-d4	14.41	143	9633	4.91	ng/ul	0.00
58) Fluorene-d10	15.18	176	110989	12.88	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.32	200	6238	3.65	ng/ul	0.00
71) Anthracene-d10	17.04	188	151441	13.09	ng/ul	0.00
79) Pyrene-d10	19.35	212	161062	11.74	ng/ul	0.01
90) Benzo(a)pyrene-d12	23.21	264	171264	11.51	ng/ul	0.01

Target Compounds

						Qvalue
28) Naphthalene	10.34	128	29217	2.80	ng/ul#	96
34) 2-Methylnaphthalene	11.97	142	16229	2.06	ng/ul	90
35) 1-Methylnaphthalene	12.19	142	12748	1.66	ng/ul	99
45) Dimethylphthalate	13.65	163	54998	5.86	ng/ul	99
48) Acenaphthylene	13.90	152	12300	1.02	ng/ul#	70
50) Acenaphthene	14.25	153	26228	3.33	ng/ul	96
54) Dibenzofuran	14.58	168	24209	2.16	ng/ul	90
59) Fluorene	15.24	166	42241	4.38	ng/ul	98
65) N-Nitrosodiphenylamine	15.47	169	18708	2.57	ng/ul#	48
70) Phenanthrene	16.99	178	513984	38.28	ng/ul	99
72) Anthracene	17.07	178	107047	7.85	ng/ul	97
75) Carbazole	17.35	167	30470	2.58	ng/ul#	79
76) Di-n-butylphthalate	17.93	149	32852	2.11	ng/ul#	86
77) Fluoranthene	19.02	202	685384	47.92	ng/ul	96
80) Pyrene	19.38	202	685208	39.96	ng/ul	97
83) Benzo(a)anthracene	21.14	228	373364	23.57	ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.08	149	21669	2.16	ng/ul#	86
85) Chrysene	21.14	228	374038	25.08	ng/ul	96
88) Benzo(b)fluoranthene	22.70	252	470770	27.55	ng/ul	97
89) Benzo(k)fluoranthene	22.70	252	470770	28.46	ng/ul	96
91) Benzo(a)pyrene	23.25	252	336049	20.31	ng/ul	99
92) Indeno(1,2,3-cd)pyrene	25.57	276	223239	11.69	ng/ul#	92
93) Dibenzo(a,h)anthracene	25.58	278	68353	4.19	ng/ul#	88

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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

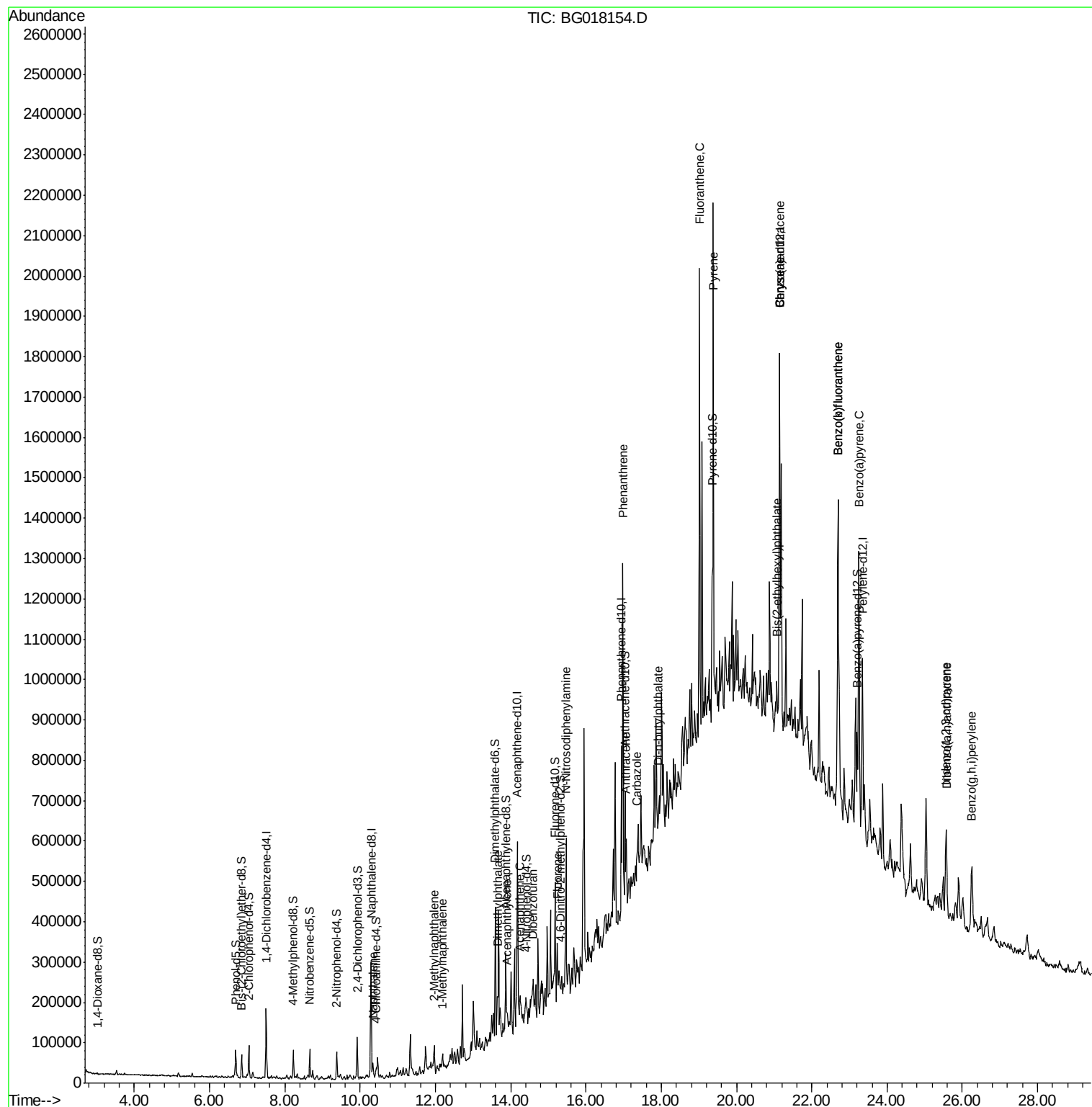
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Benzo(g,h,i)perylene	26.25	276	210328	13.33	ng/ul	95

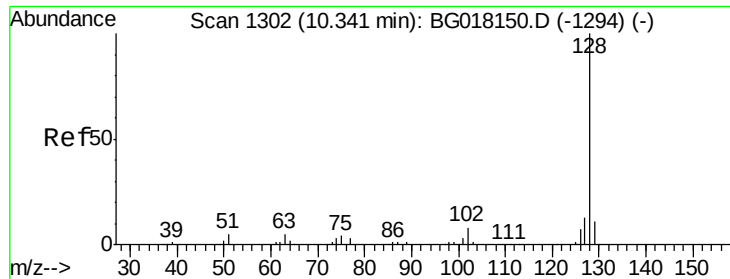
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#28

Naphthalene

Concen: 2.80 ng/ul

RT: 10.34 min Scan# 1302

Delta R.T. -0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

Instrument :

BNA_M

ClientSampleId :

C01X0

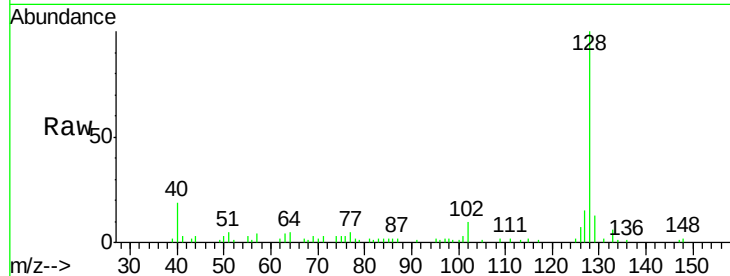
Tgt Ion:128 Resp: 29217

Ion Ratio Lower Upper

128 100

129 12.5 9.5 14.3

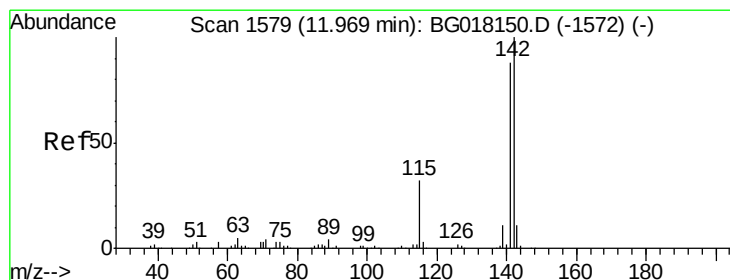
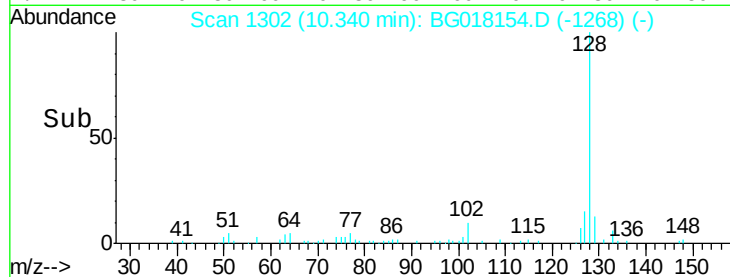
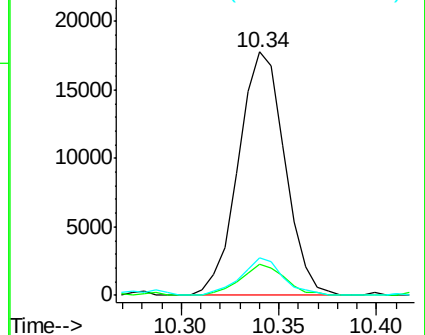
127 15.3 10.1 15.1#



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



#34

2-Methylnaphthalene

Concen: 2.06 ng/ul

RT: 11.97 min Scan# 1580

Delta R.T. 0.00 min

Lab File: BG018154.D

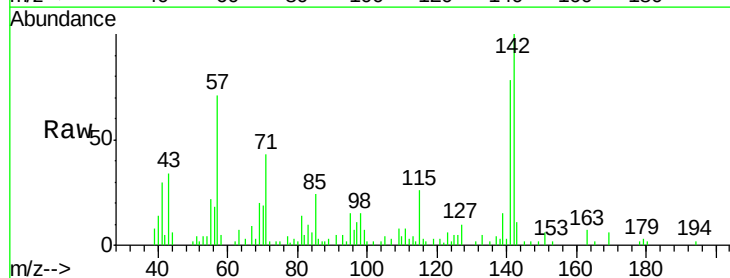
Acq: 28 Jul 2015 19:47

Tgt Ion:142 Resp: 16229

Ion Ratio Lower Upper

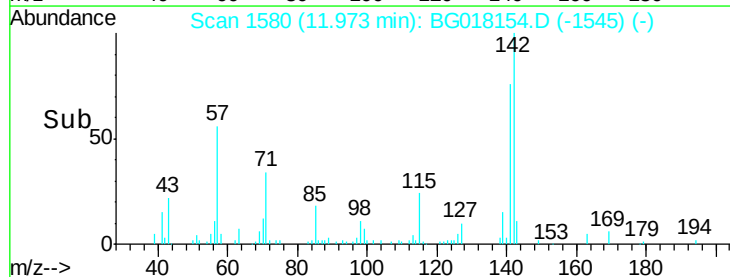
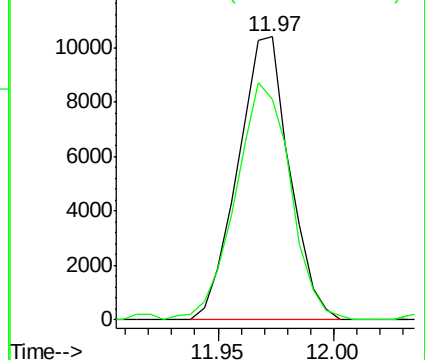
142 100

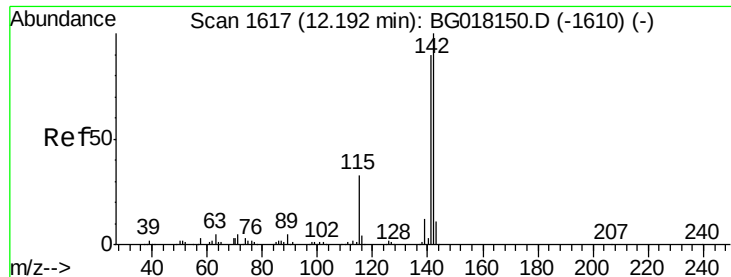
141 77.8 69.4 104.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

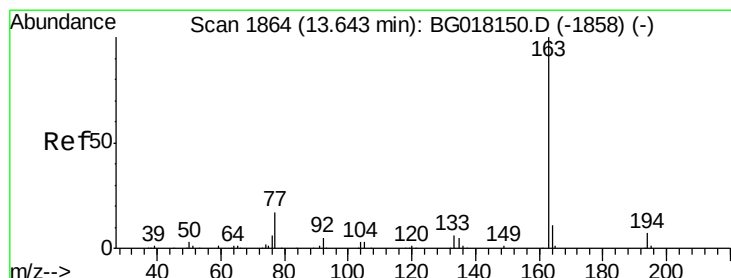
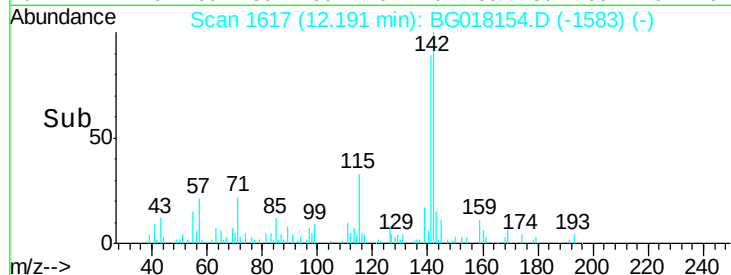
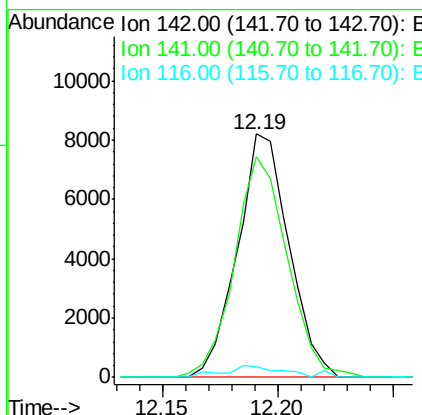
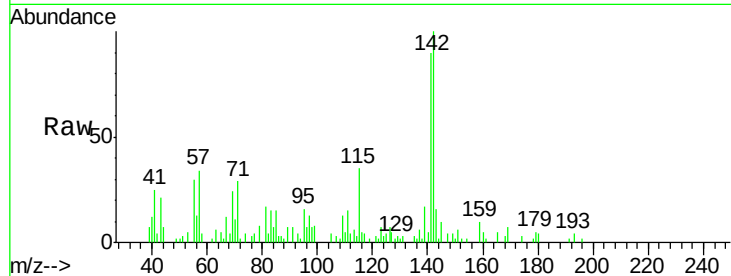




#35
1-Methylnaphthalene
Concen: 1.66 ng/ul
RT: 12.19 min Scan# 1617
Delta R.T. -0.00 min
Lab File: BG018154.D
Acq: 28 Jul 2015 19:47

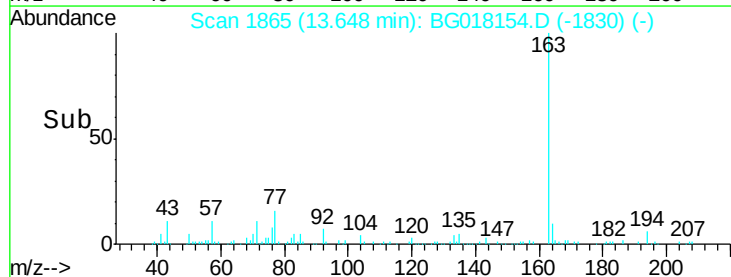
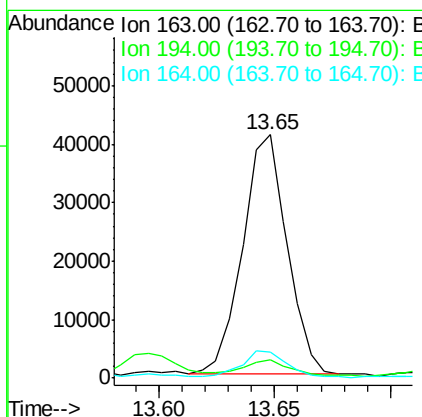
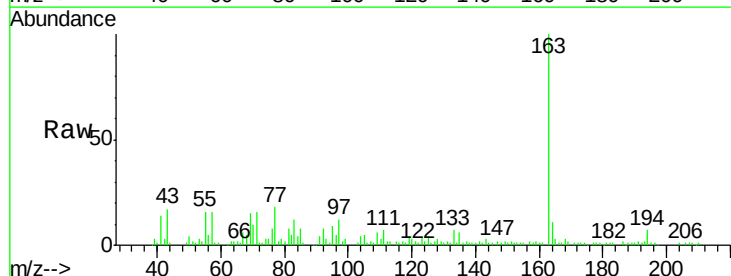
Instrument :
BNA_M
ClientSampleId :
C01X0

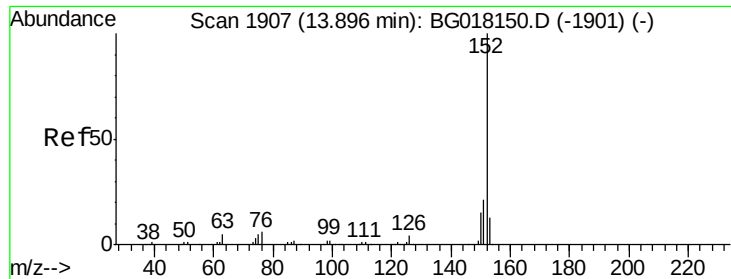
Tgt Ion:142 Resp: 12748
Ion Ratio Lower Upper
142 100
141 90.4 71.8 107.6
116 4.5 3.2 4.8



#45
Dimethylphthalate
Concen: 5.86 ng/ul
RT: 13.65 min Scan# 1865
Delta R.T. 0.00 min
Lab File: BG018154.D
Acq: 28 Jul 2015 19:47

Tgt Ion:163 Resp: 54998
Ion Ratio Lower Upper
163 100
194 7.3 5.4 8.2
164 10.7 8.7 13.1





#48

Acenaphthylene

Concen: 1.02 ng/ul

RT: 13.90 min Scan# 1908

Delta R.T. 0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

Instrument :

BNA_M

ClientSampled :

C01X0

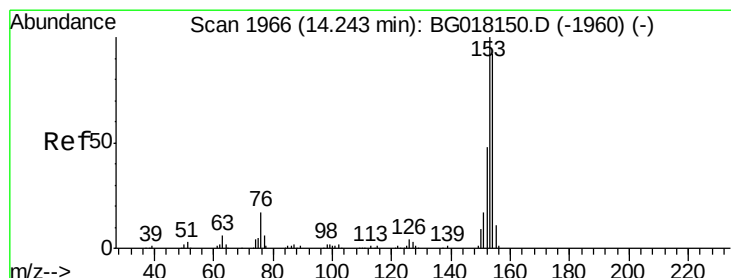
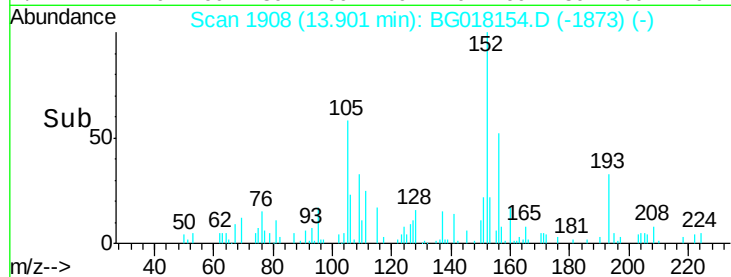
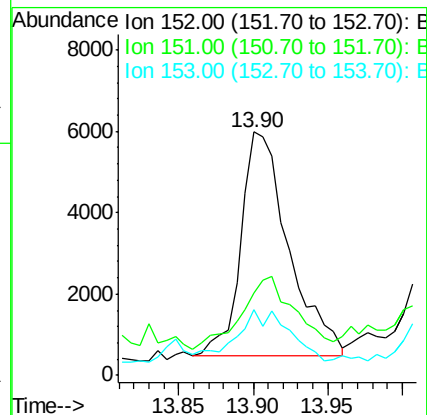
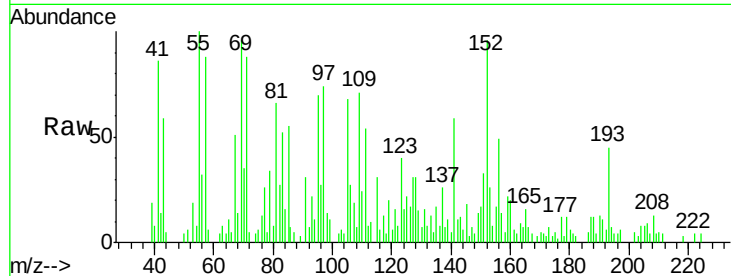
Tgt Ion:152 Resp: 12300

Ion Ratio Lower Upper

152 100

151 34.0 16.6 25.0#

153 26.9 11.3 16.9#



#50

Acenaphthene

Concen: 3.33 ng/ul

RT: 14.25 min Scan# 1967

Delta R.T. 0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

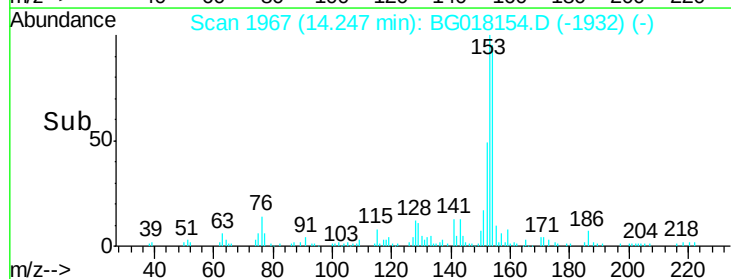
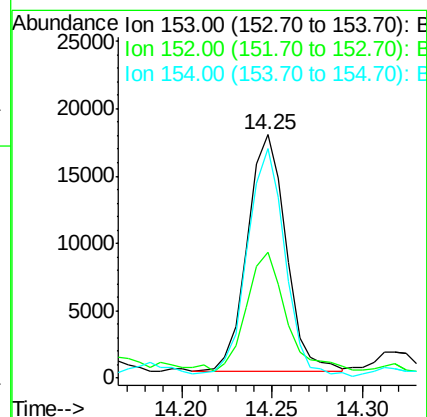
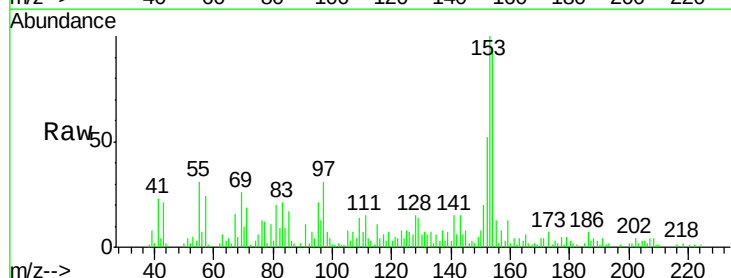
Tgt Ion:153 Resp: 26228

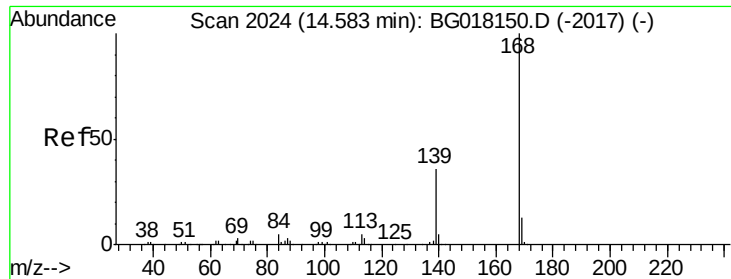
Ion Ratio Lower Upper

153 100

152 51.8 38.9 58.3

154 94.2 72.6 108.8





#54

Dibenzenofuran

Concen: 2.16 ng/ul

RT: 14.58 min Scan# 2024

Delta R.T. -0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

Instrument :

BNA_M

ClientSampleId :

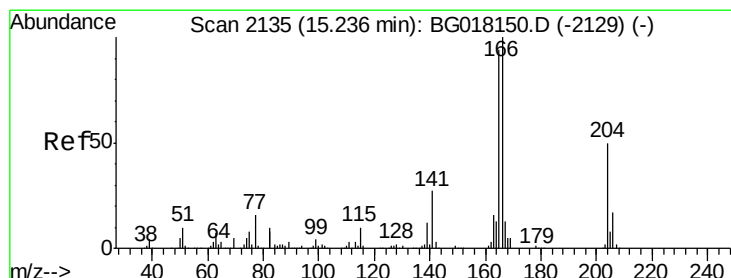
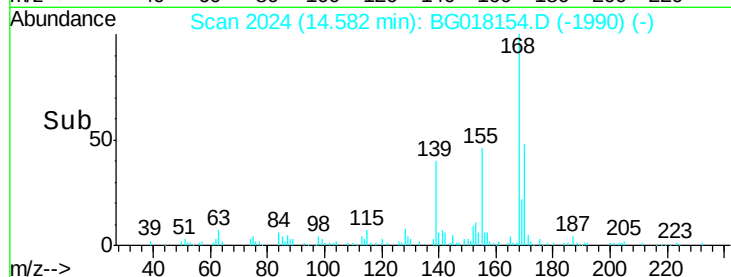
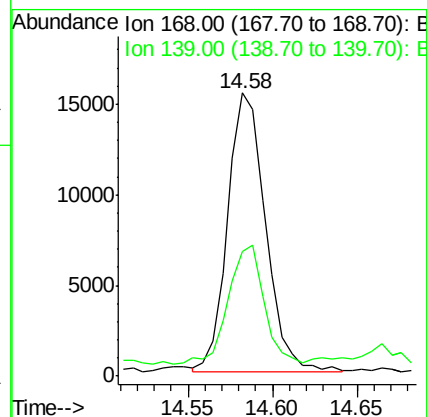
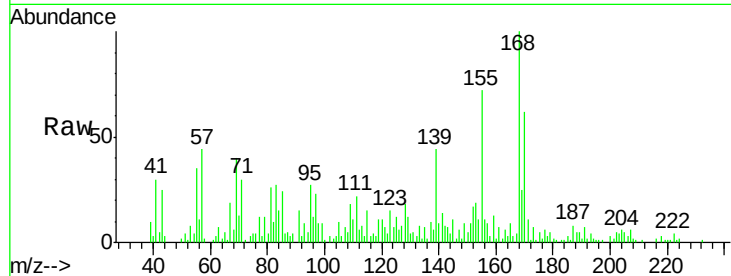
C01X0

Tgt Ion:168 Resp: 24209

Ion Ratio Lower Upper

168 100

139 44.1 30.6 46.0



#59

Fluorene

Concen: 4.38 ng/ul

RT: 15.24 min Scan# 2136

Delta R.T. 0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

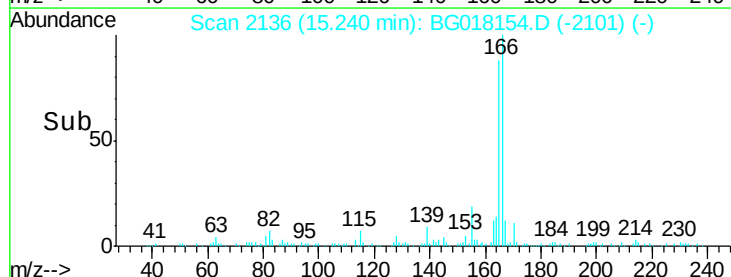
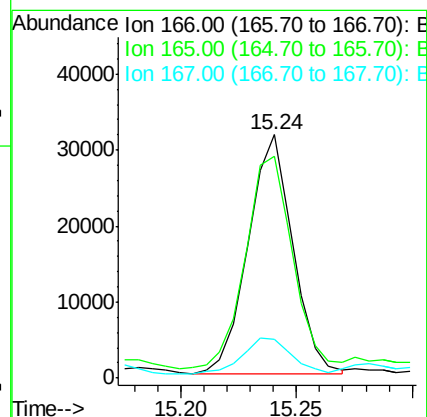
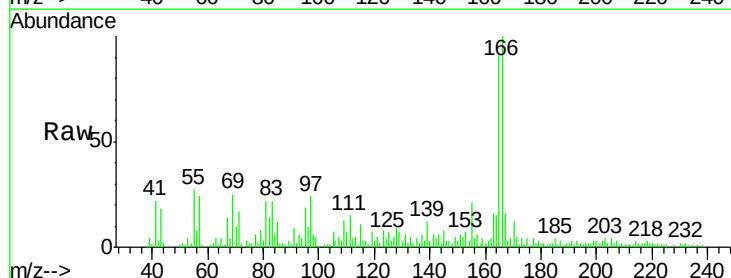
Tgt Ion:166 Resp: 42241

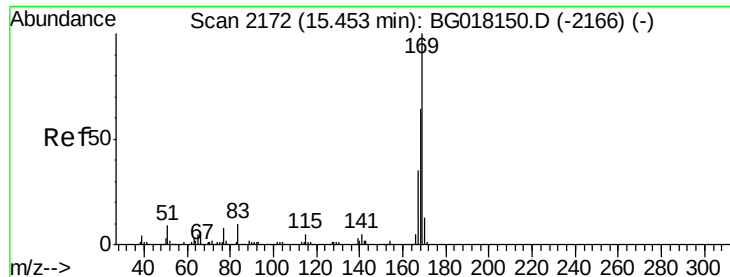
Ion Ratio Lower Upper

166 100

165 91.0 73.6 110.4

167 16.1 10.8 16.2





#65

N-Nitrosodiphenylamine

Concen: 2.57 ng/ul

RT: 15.47 min Scan# 2175

Delta R.T. 0.02 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

Instrument :

BNA_M

ClientSampleId :

C01X0

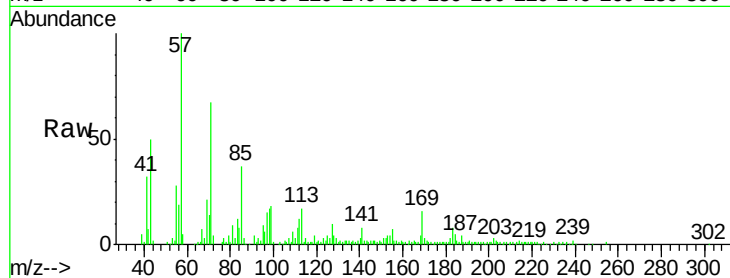
Tgt Ion:169 Resp: 18708

Ion Ratio Lower Upper

169 100

168 21.4 52.5 78.7#

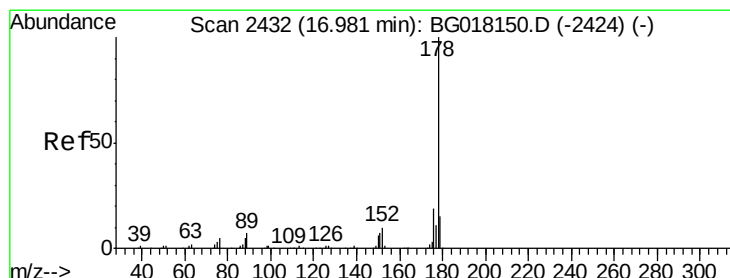
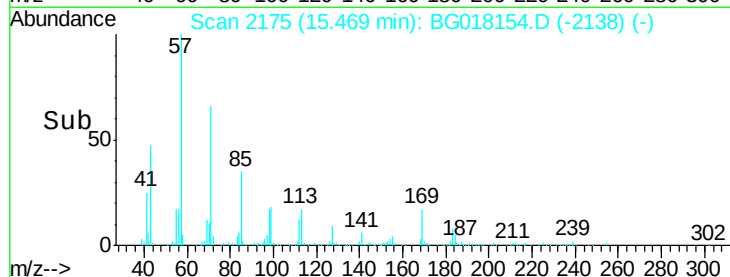
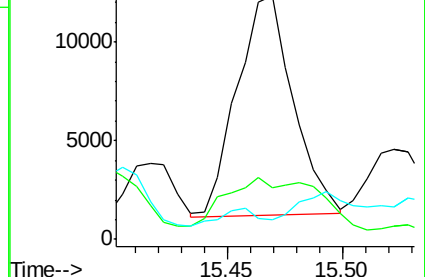
167 8.1 27.4 41.0#



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: 38.28 ng/ul

RT: 16.99 min Scan# 2433

Delta R.T. 0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

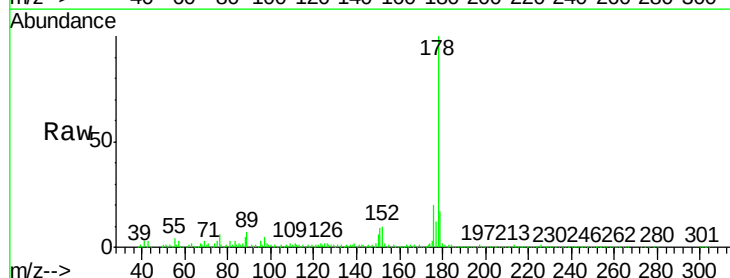
Tgt Ion:178 Resp: 513984

Ion Ratio Lower Upper

178 100

179 16.9 13.0 19.6

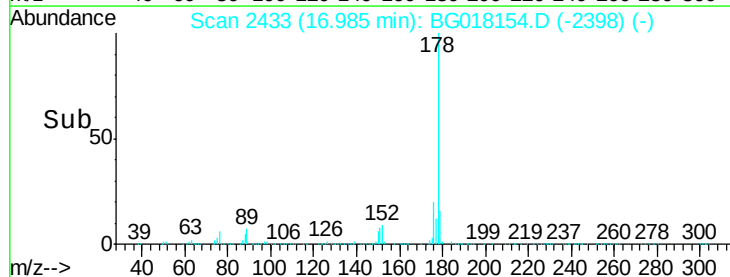
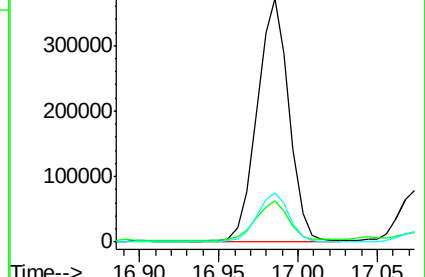
176 20.0 15.8 23.8

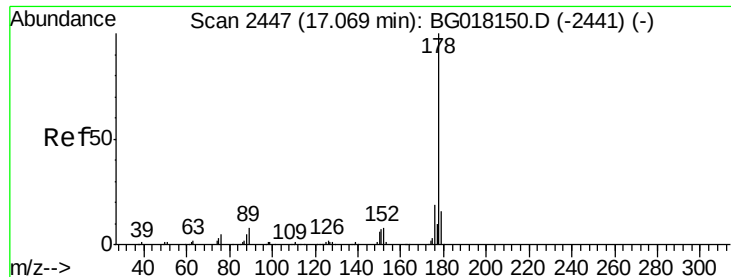


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 7.85 ng/ul

RT: 17.07 min Scan# 2448

Delta R.T. 0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

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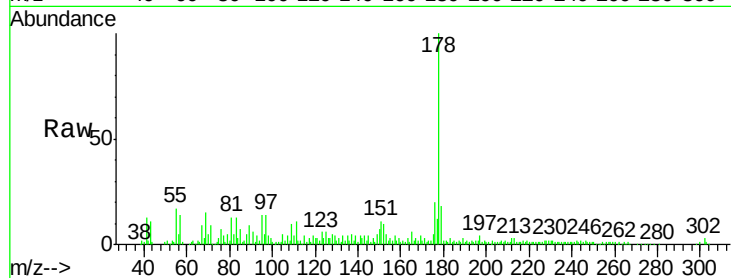
Tgt Ion:178 Resp: 107047

Ion Ratio Lower Upper

178 100

179 18.4 12.4 18.6

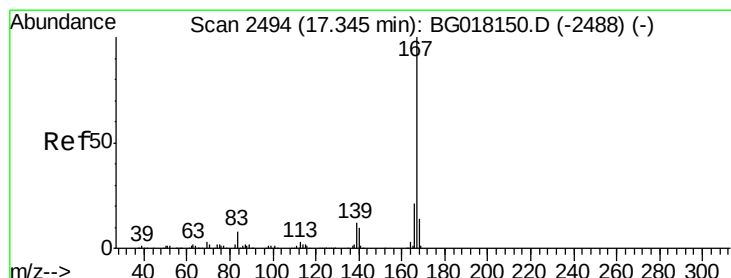
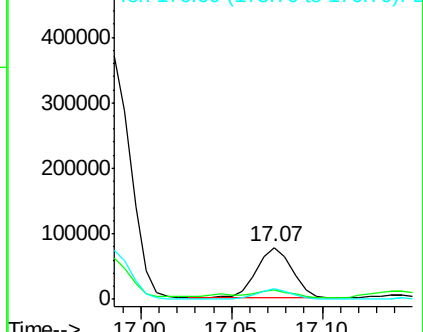
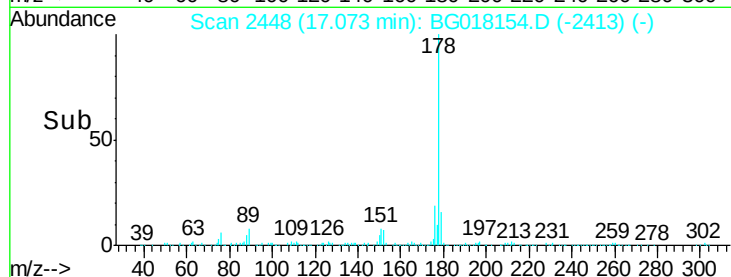
176 19.7 15.8 23.8



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: 2.58 ng/ul

RT: 17.35 min Scan# 2495

Delta R.T. 0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

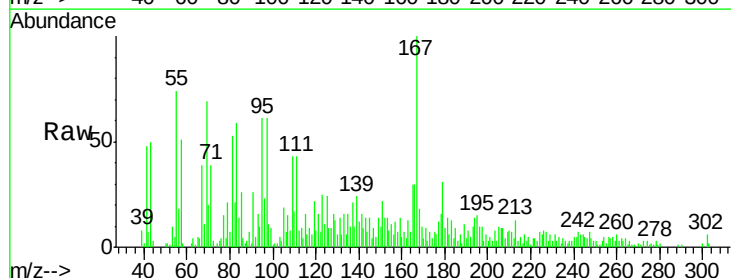
Tgt Ion:167 Resp: 30470

Ion Ratio Lower Upper

167 100

166 29.7 17.4 26.2#

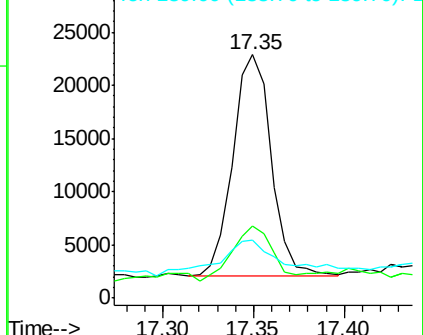
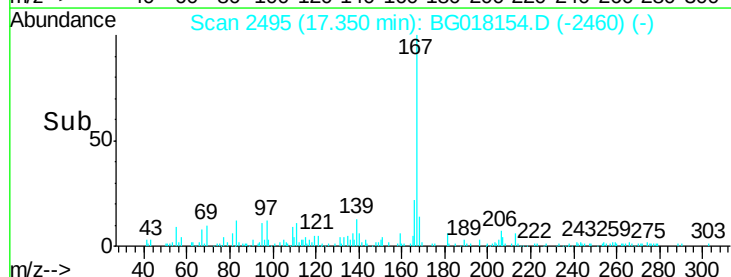
139 24.0 10.6 15.8#

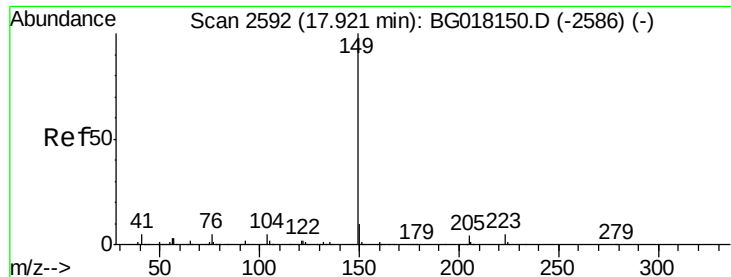


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#76

Di-n-butylphthalate

Concen: 2.11 ng/ul

RT: 17.93 min Scan# 2593

Delta R.T. 0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

Instrument :

BNA_M

ClientSampleId :

C01X0

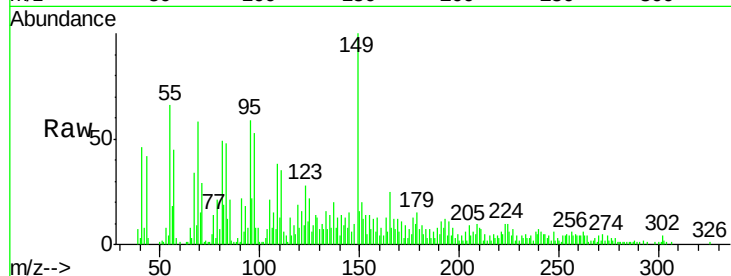
Tgt Ion:149 Resp: 32852

Ion Ratio Lower Upper

149 100

150 15.7 7.4 11.0#

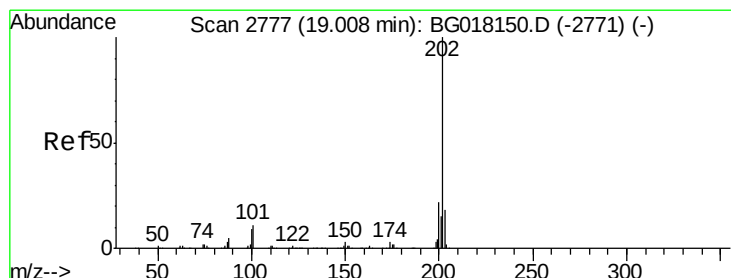
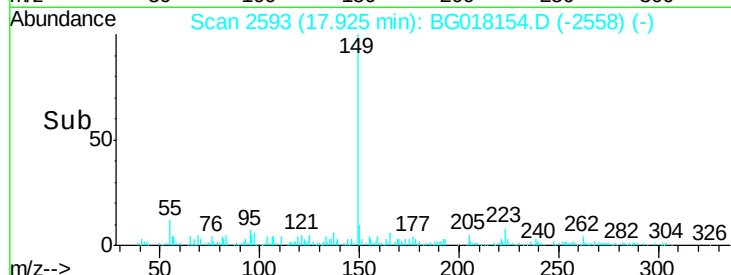
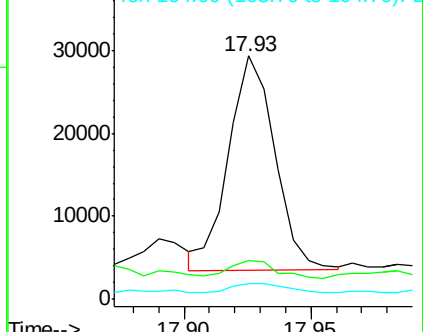
104 6.5 3.8 5.8#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#77

Fluoranthene

Concen: 47.92 ng/ul

RT: 19.02 min Scan# 2779

Delta R.T. 0.01 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

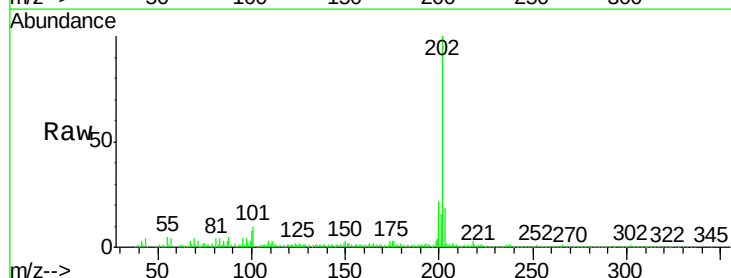
Tgt Ion:202 Resp: 685384

Ion Ratio Lower Upper

202 100

101 10.1 9.1 13.7

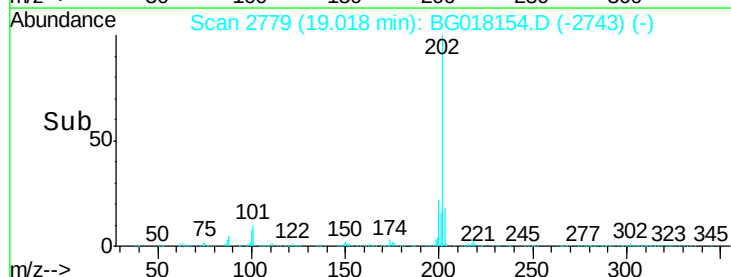
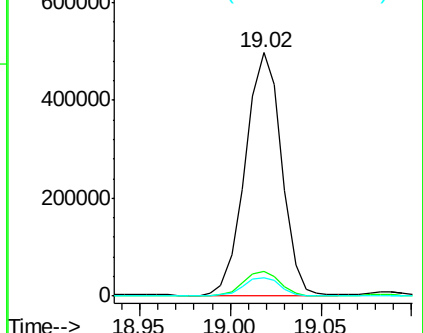
100 7.6 7.5 11.3

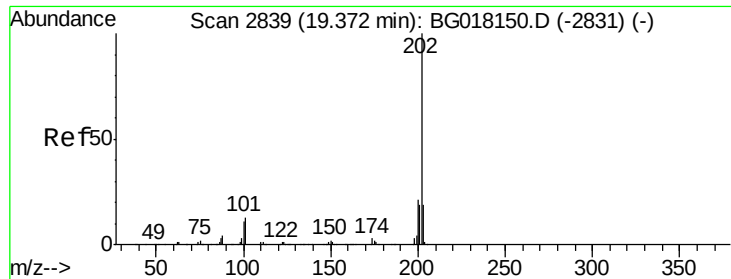


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

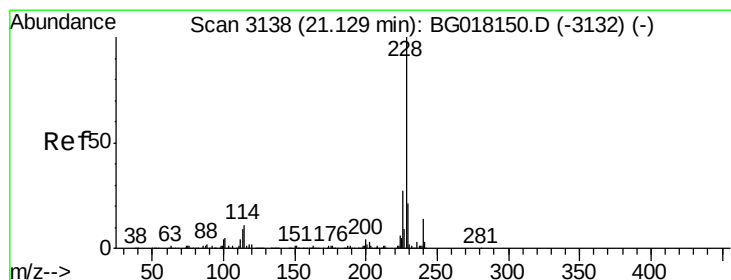
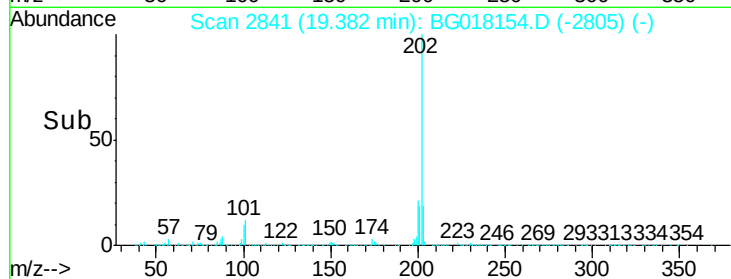
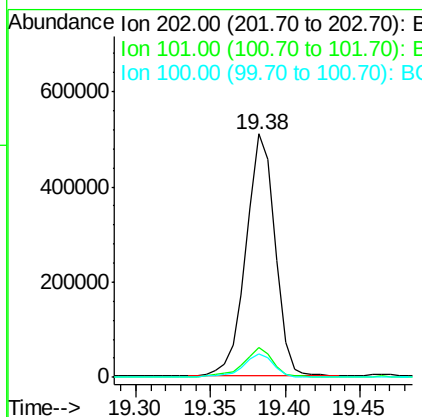
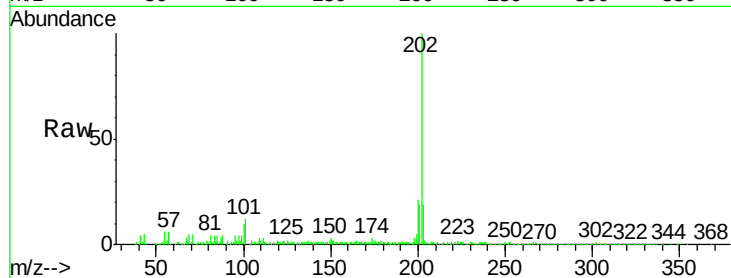




#80
 Pyrene
 Concen: 39.96 ng/ul
 RT: 19.38 min Scan# 2841
 Delta R.T. 0.01 min
 Lab File: BG018154.D
 Acq: 28 Jul 2015 19:47

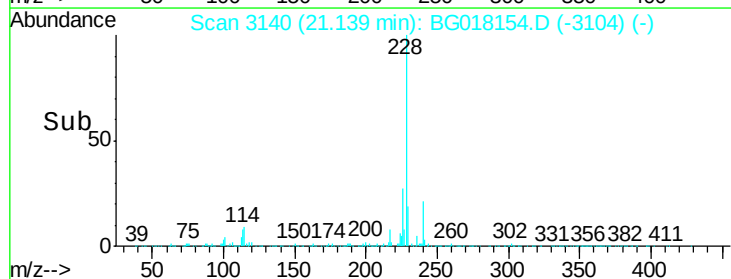
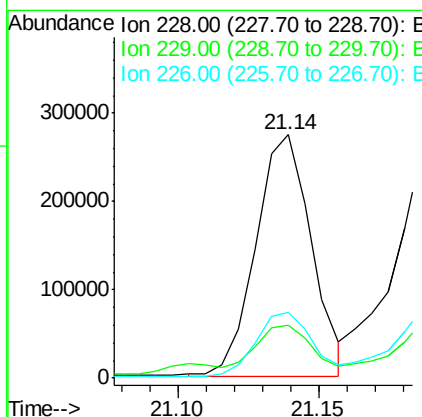
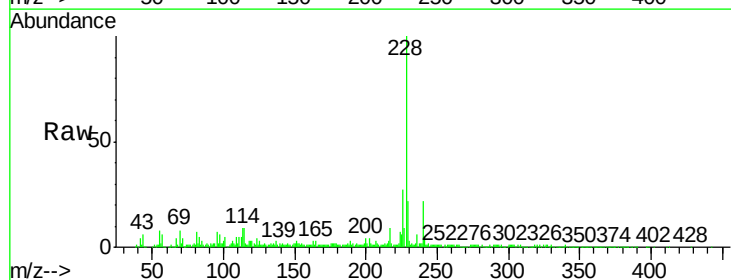
Instrument :
 BNA_M
 ClientSampleId :
 C01X0

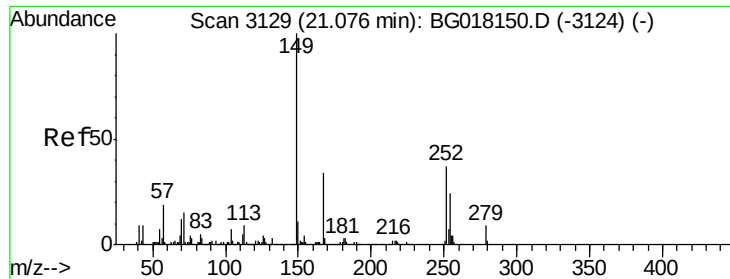
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.0	10.9	16.3
100	9.7	8.5	12.7



#83
 Benzo(a)anthracene
 Concen: 23.57 ng/ul
 RT: 21.14 min Scan# 3140
 Delta R.T. 0.01 min
 Lab File: BG018154.D
 Acq: 28 Jul 2015 19:47

Tgt Ion	Ratio	Lower	Upper
228	100		
229	21.8	16.6	24.8
226	27.1	21.1	31.7





#84

Bis(2-ethylhexyl)phthalate

Concen: 2.16 ng/ul

RT: 21.08 min Scan# 3130

Delta R.T. 0.00 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

Instrument :

BNA_M

ClientSampleId :

C01X0

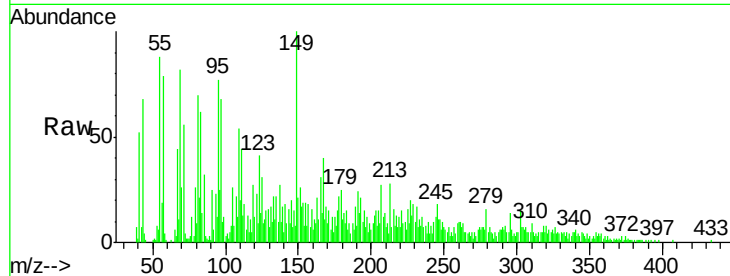
Tgt Ion:149 Resp: 21669

Ion Ratio Lower Upper

149 100

167 40.2 26.2 39.4#

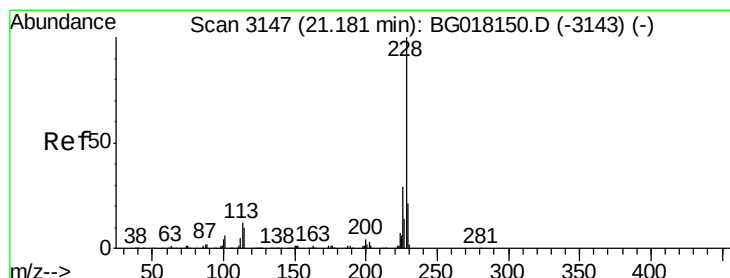
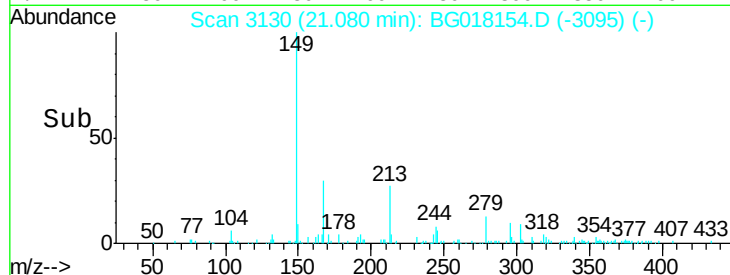
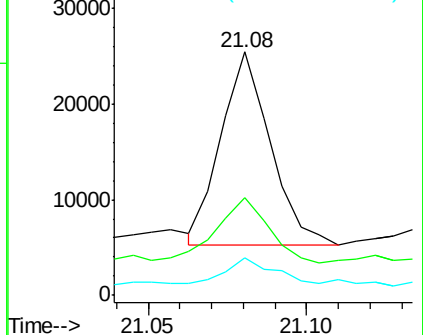
279 15.5 7.2 10.8#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Chrysene

Concen: 25.08 ng/ul

RT: 21.14 min Scan# 3140

Delta R.T. -0.04 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

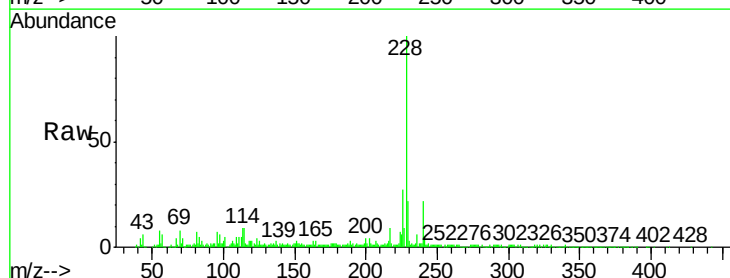
Tgt Ion:228 Resp: 374038

Ion Ratio Lower Upper

228 100

226 27.1 22.9 34.3

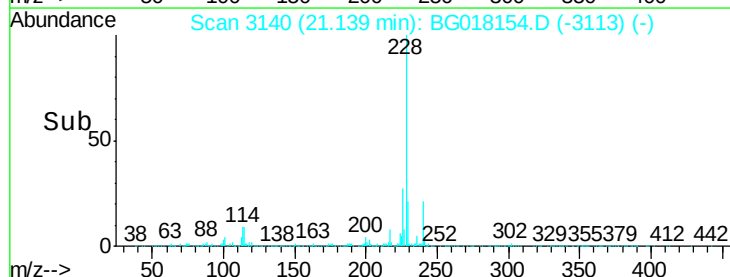
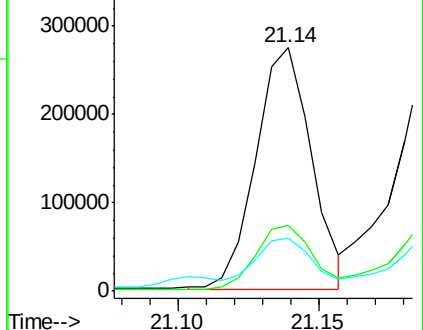
229 21.8 15.6 23.4

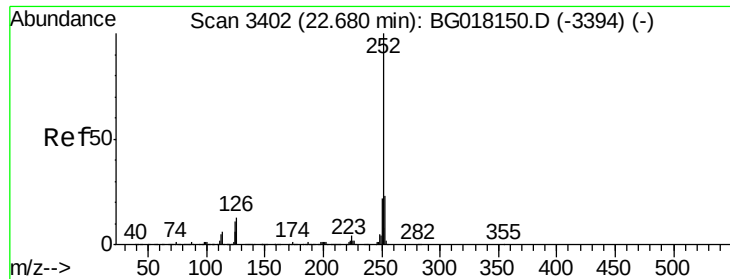


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#88

Benzo(b)fluoranthene

Concen: 27.55 ng/ul

RT: 22.70 min Scan# 3405

Delta R.T. 0.02 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

Instrument :

BNA_M

ClientSampleId :

C01X0

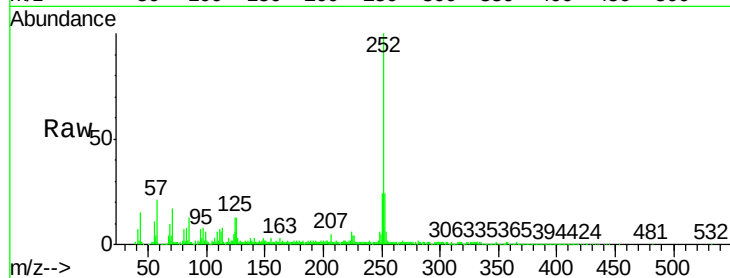
Tgt Ion:252 Resp: 470770

Ion Ratio Lower Upper

252 100

253 24.5 18.5 27.7

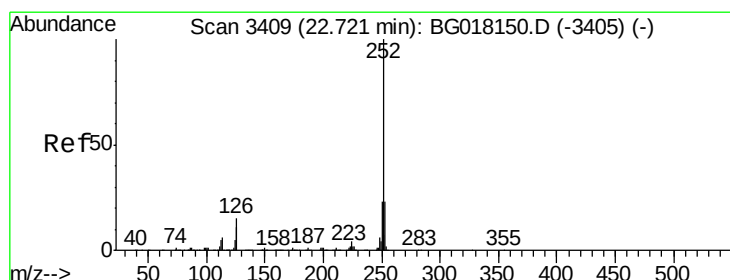
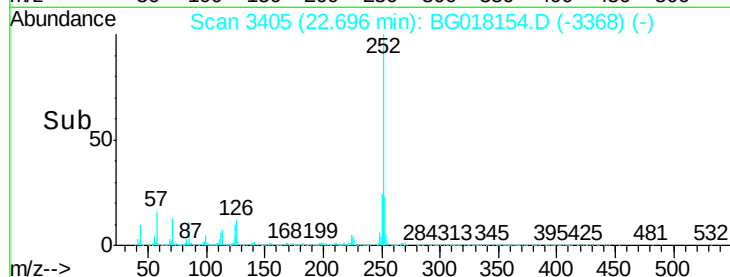
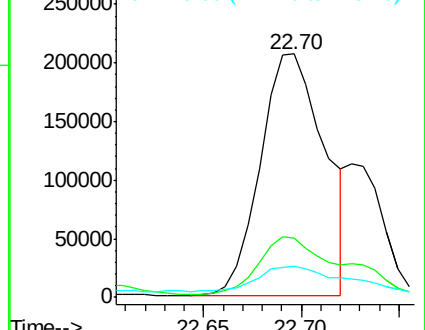
125 12.5 9.1 13.7



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: 28.46 ng/ul

RT: 22.70 min Scan# 3405

Delta R.T. -0.02 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

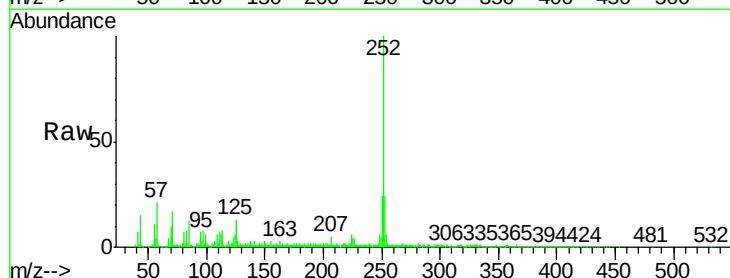
Tgt Ion:252 Resp: 470770

Ion Ratio Lower Upper

252 100

253 24.5 17.8 26.8

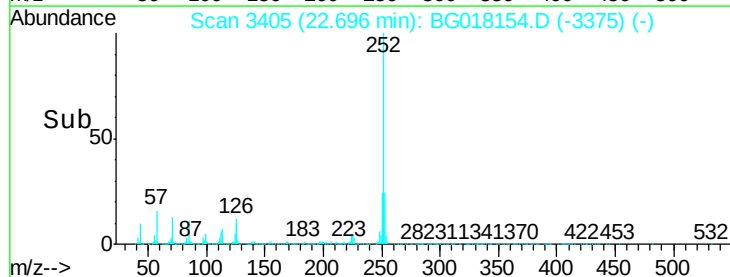
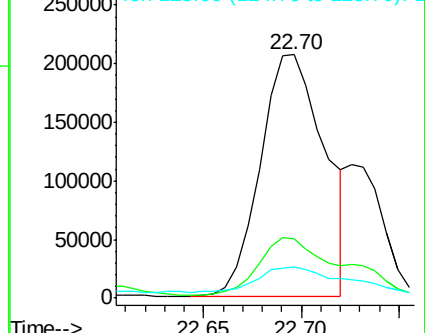
125 12.5 9.3 13.9

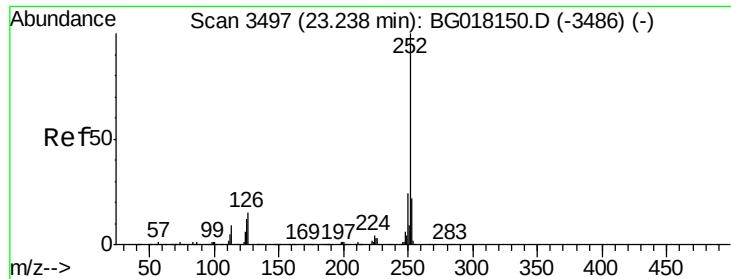


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 20.31 ng/ul

RT: 23.25 min Scan# 3500

Delta R.T. 0.02 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

Instrument :

BNA_M

ClientSampleId :

C01X0

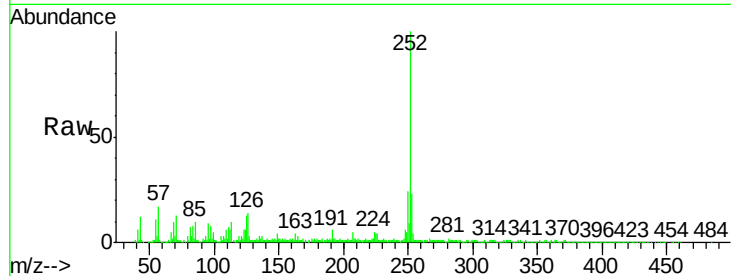
Tgt Ion:252 Resp: 336049

Ion Ratio Lower Upper

252 100

253 23.5 18.0 27.0

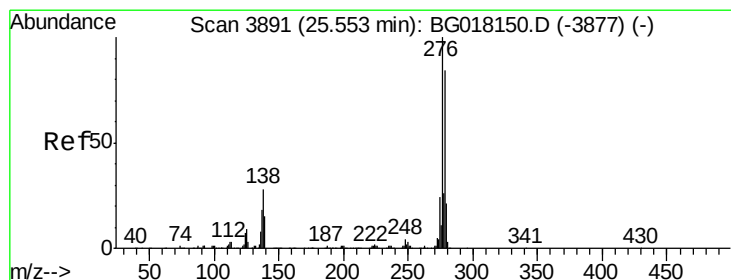
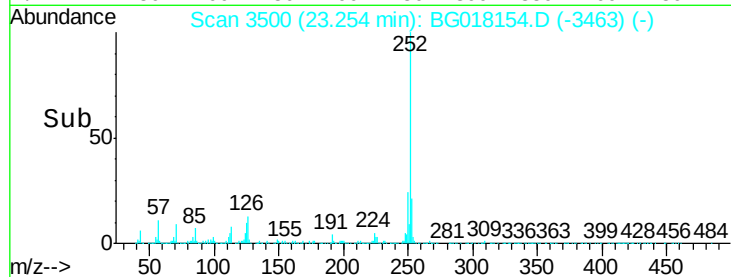
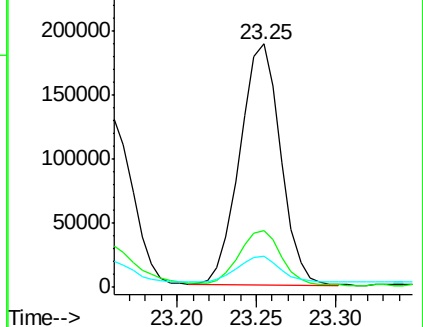
125 12.8 10.2 15.2



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: 11.69 ng/ul

RT: 25.57 min Scan# 3894

Delta R.T. 0.02 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

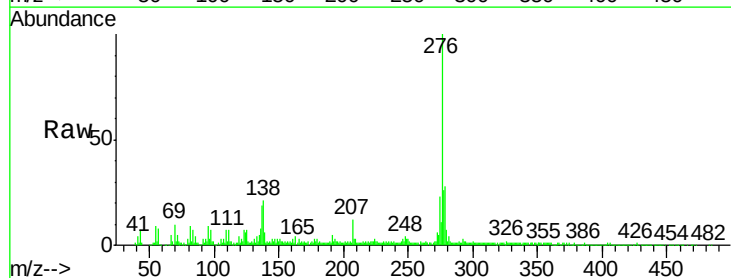
Tgt Ion:276 Resp: 223239

Ion Ratio Lower Upper

276 100

138 20.8 22.6 33.8#

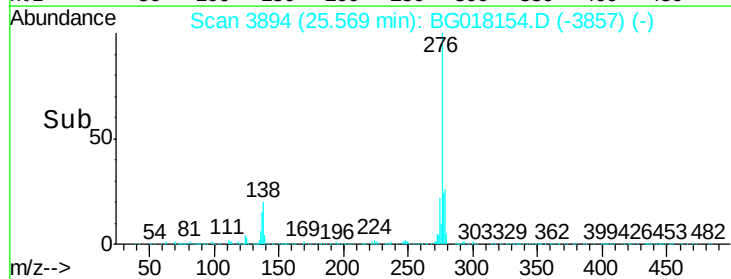
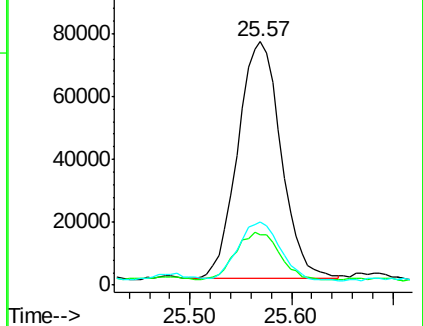
277 25.7 19.8 29.8

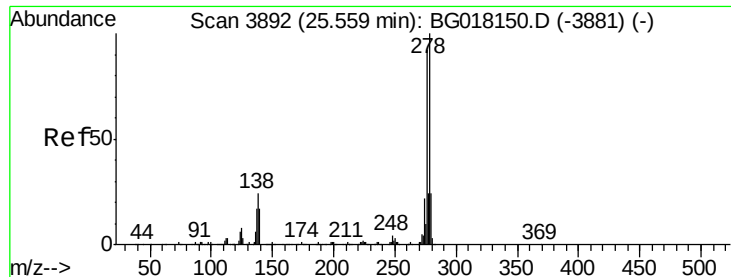


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 4.19 ng/ul

RT: 25.58 min Scan# 3896

Delta R.T. 0.02 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

Instrument :

BNA_M

ClientSampleId :

C01X0

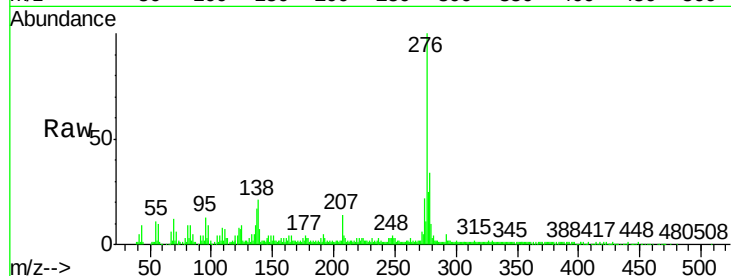
Tgt Ion:278 Resp: 68353

Ion Ratio Lower Upper

278 100

139 19.4 13.7 20.5

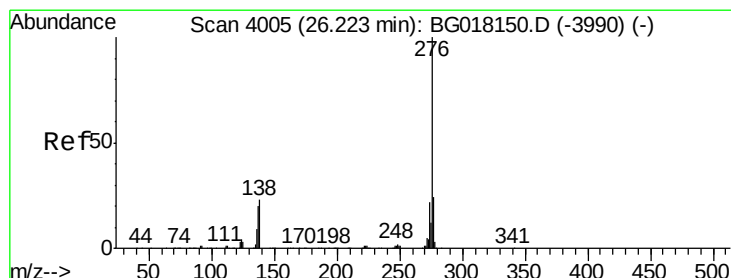
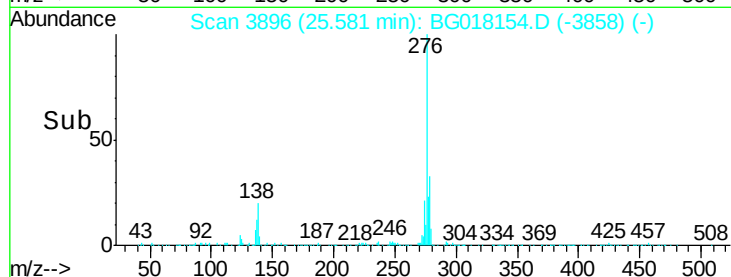
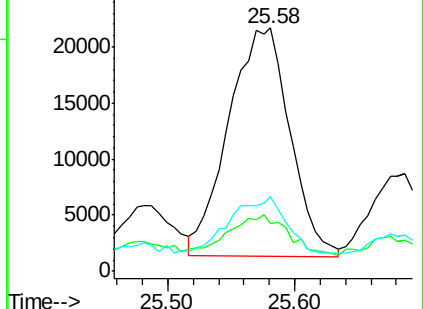
279 30.5 18.1 27.1#



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: 13.33 ng/ul

RT: 26.25 min Scan# 4010

Delta R.T. 0.03 min

Lab File: BG018154.D

Acq: 28 Jul 2015 19:47

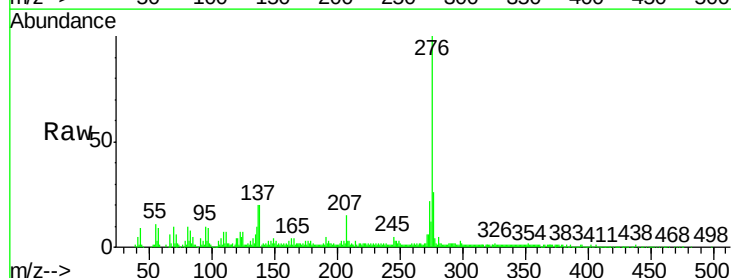
Tgt Ion:276 Resp: 210328

Ion Ratio Lower Upper

276 100

138 20.0 18.8 28.2

277 25.9 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

