

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM070615\
 Data File : BM001858.D
 Acq On : 07 Jul 2015 05:34
 Operator : TP/UM
 Sample : G2860-08 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 G93J3

Quant Time: Jul 07 07:11:50 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM061515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Jul 07 04:02:33 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	56525	20.00	ng/ul	0.00
18) Naphthalene-d8	10.46	136	217459	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.32	164	127137	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.06	188	290651	20.00	ng/ul	0.00
77) Chrysene-d12	21.26	240	350386	20.00	ng/ul	0.00
85) Perylene-d12	23.47	264	355522	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	6.83	99	4565	1.05	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.00	67	2644	1.09	ng/ul	0.00
9) 2-Chlorophenol-d4	7.19	132	3710	1.08	ng/ul	0.00
13) 4-Methylphenol-d8	8.37	113	3707	1.06	ng/ul	0.00
19) Nitrobenzene-d5	8.82	128	1585	1.05	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	1749	1.06	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.07	165	4347	1.23	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	5499	1.53	ng/ul	0.00
43) Dimethylphthalate-d6	13.73	166	11893	1.26	ng/ul	0.00
46) Acenaphthylene-d8	14.01	160	15031	1.22	ng/ul	0.00
51) 4-Nitrophenol-d4	14.52	143	1344	0.77	ng/ul	0.00
57) Fluorene-d10	15.31	176	12138	1.39	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.44	200	744	0.42	ng/ul	0.00
70) Anthracene-d10	17.16	188	17691	1.31	ng/ul	0.00
78) Pyrene-d10	19.46	212	19757	1.33	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.33	264	20434	1.30	ng/ul	0.00

Target Compounds

						Qvalue
6) Phenol	6.86	94	25254	5.64	ng/ul	98
11) 2-Methylphenol	8.10	108	18561	5.60	ng/ul	96
16) 4-Methylphenol	8.43	108	37692	10.46	ng/ul	98
17) Hexachloroethane	8.76	117	2271	1.59	ng/ul#	1
24) 2,4-Dimethylphenol	9.63	107	20980	5.04	ng/ul	96
28) Naphthalene	10.51	128	2924572	266.36	ng/ul	99
34) 2-Methylnaphthalene	12.12	142	619140	77.97	ng/ul	96
40) 1,1'-Biphenyl	13.14	154	132951	12.81	ng/ul	98
47) Acenaphthylene	14.04	152	400458	31.78	ng/ul	98
49) Acenaphthene	14.38	153	58367	6.93	ng/ul	97
53) Dibenzofuran	14.72	168	213301	17.69	ng/ul	96
58) Fluorene	15.37	166	262397	26.15	ng/ul	98
60) 4-Nitroaniline	15.36	138	2931	1.43	ng/ul#	4
69) Phenanthrene	17.11	178	1600038	101.52	ng/ul	99
71) Anthracene	17.20	178	341051	21.08	ng/ul	99
74) Carbazole	17.47	167	100434	7.07	ng/ul	99
76) Fluoranthene	19.13	202	969756	51.45	ng/ul	99
79) Pyrene	19.49	202	1015775	52.25	ng/ul	98
82) Benzo(a)anthracene	21.24	228	369601	18.05	ng/ul	93
84) Chrysene	21.29	228	286666	14.77	ng/ul	97
87) Benzo(b)fluoranthene	22.81	252	339864	16.42	ng/ul	99
88) Benzo(k)fluoranthene	22.81	252	165600	8.28	ng/ul	98
90) Benzo(a)pyrene	23.38	252	324057	16.10	ng/ul	98

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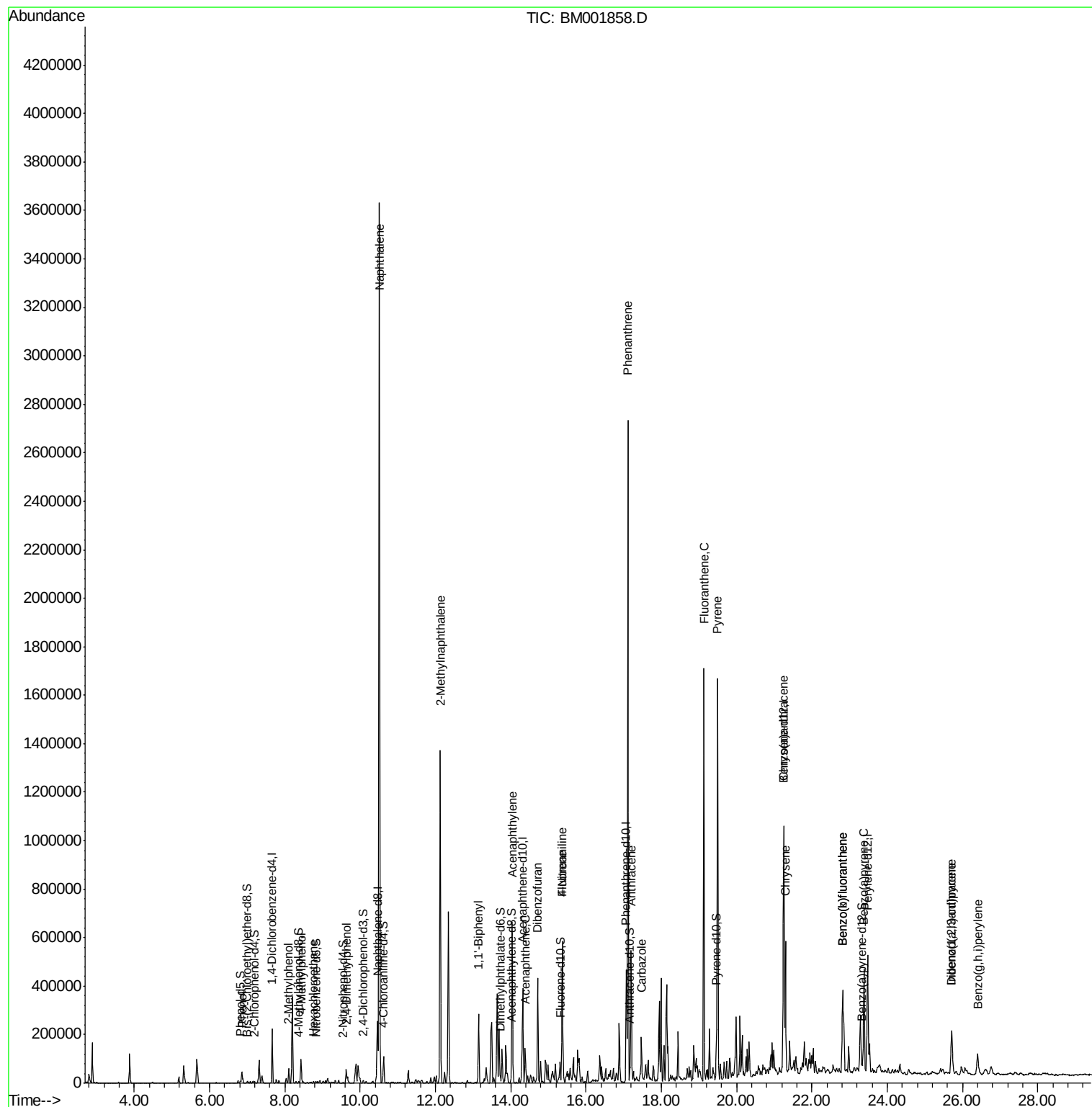
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Indeno(1,2,3-cd)pyrene	25.71	276	182310	7.64	ng/ul#	94
92) Dibenzo(a,h)anthracene	25.71	278	39776	1.97	ng/ul	95
93) Benzo(g,h,i)perylene	26.40	276	110709	5.51	ng/ul	96

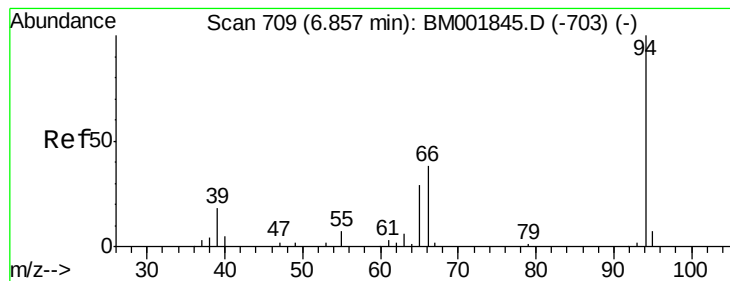
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 5.64 ng/ul

RT: 6.86 min Scan# 709

Delta R.T. 0.00 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

Instrument :

BNA_M

ClientSampleId :

G93J3

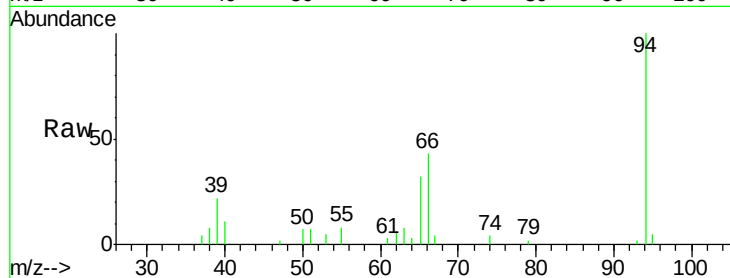
Tgt Ion: 94 Resp: 25254

Ion Ratio Lower Upper

94 100

65 32.0 26.1 39.1

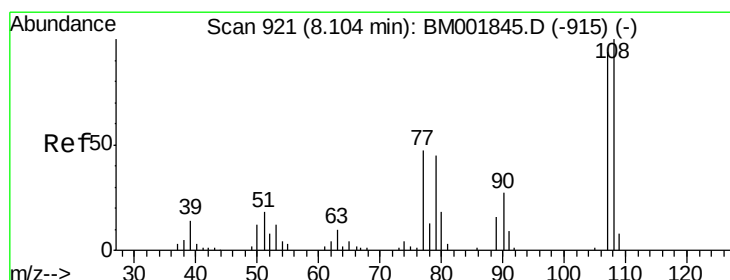
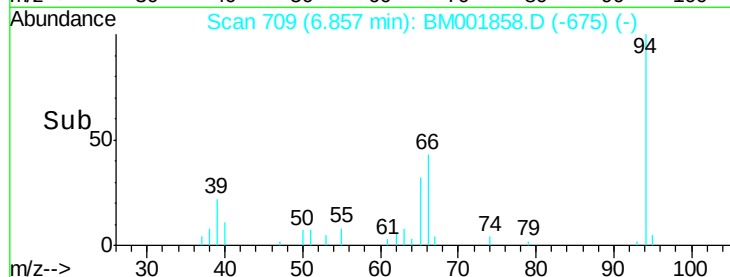
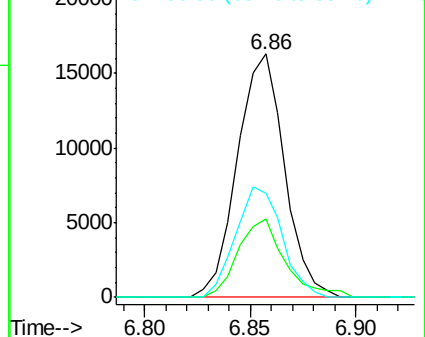
66 42.6 35.9 53.9



Abundance Ion 94.00 (93.70 to 94.70): BM001845.D (-703) (-)

Ion 65.00 (64.70 to 65.70): BM001845.D (-703) (-)

Ion 66.00 (65.70 to 66.70): BM001845.D (-703) (-)



#11

2-Methylphenol

Concen: 5.60 ng/ul

RT: 8.10 min Scan# 921

Delta R.T. 0.00 min

Lab File: BM001858.D

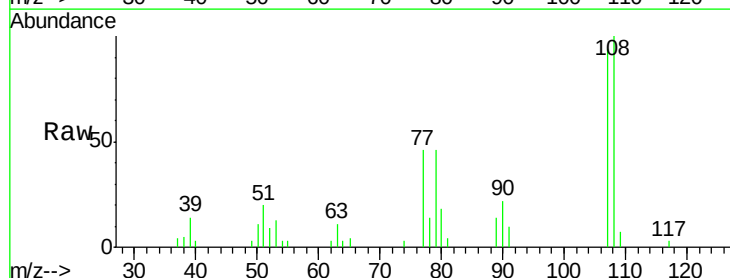
Acq: 07 Jul 2015 05:34

Tgt Ion: 108 Resp: 18561

Ion Ratio Lower Upper

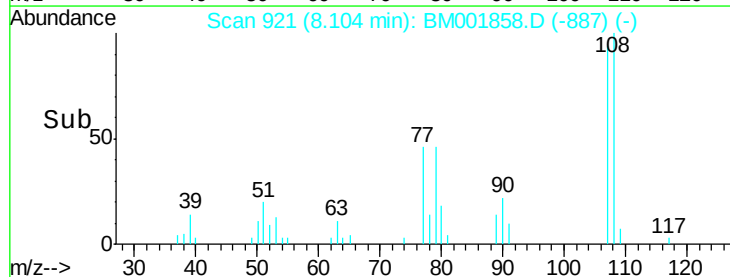
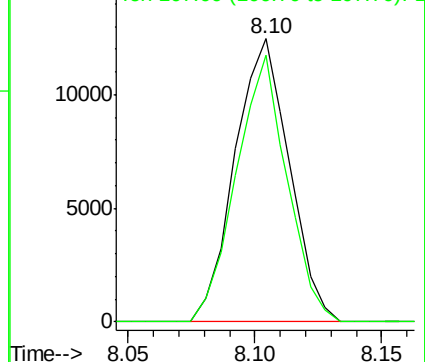
108 100

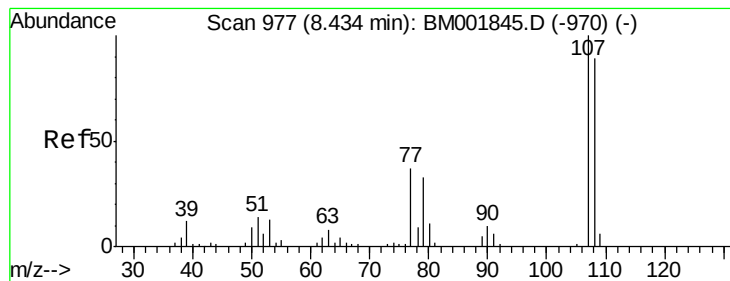
107 94.0 72.1 108.1



Abundance Ion 108.00 (107.70 to 108.70): BM001845.D (-915) (-)

Ion 107.00 (106.70 to 107.70): BM001845.D (-915) (-)





#16

4-Methylphenol

Concen: 10.46 ng/ul

RT: 8.43 min Scan# 976

Delta R.T. -0.01 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

Instrument :

BNA_M

ClientSampled :

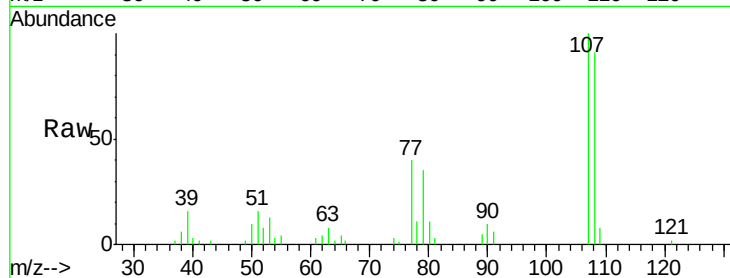
G93J3

Tgt Ion:108 Resp: 37692

Ion Ratio Lower Upper

108 100

107 110.3 89.9 134.9



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

8.43

25000

20000

15000

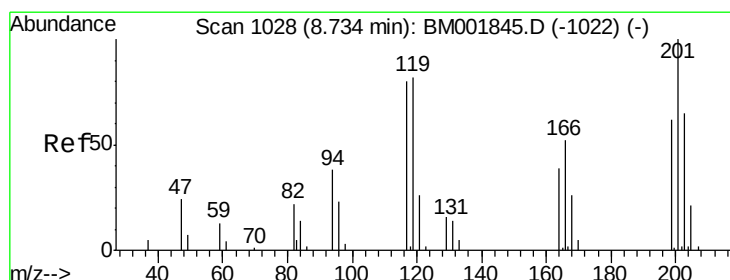
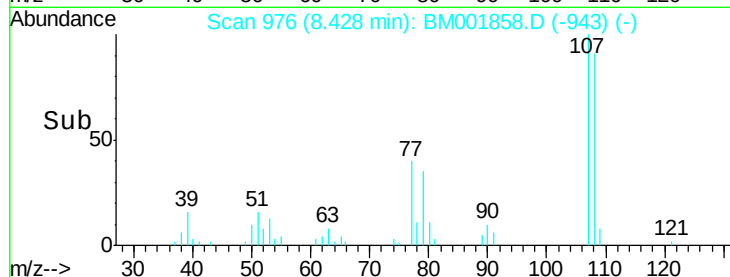
10000

5000

0

8.40 8.45

Time-->



#17

Hexachloroethane

Concen: 1.59 ng/ul

RT: 8.76 min Scan# 1032

Delta R.T. 0.02 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

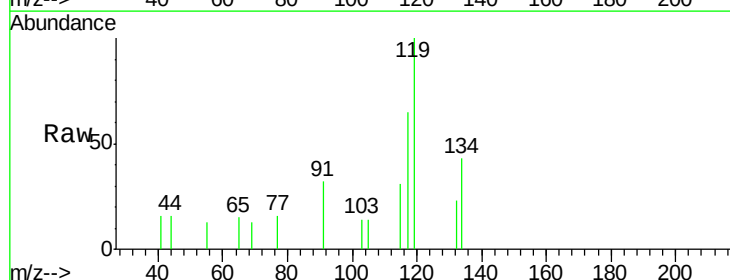
Tgt Ion:117 Resp: 2271

Ion Ratio Lower Upper

117 100

201 0.0 92.1 138.1#

199 0.0 60.6 90.8#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E

8.76

2000

1500

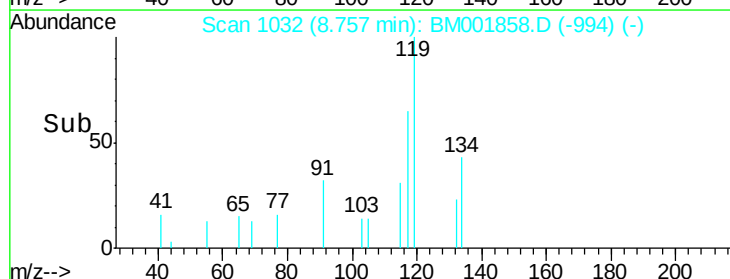
1000

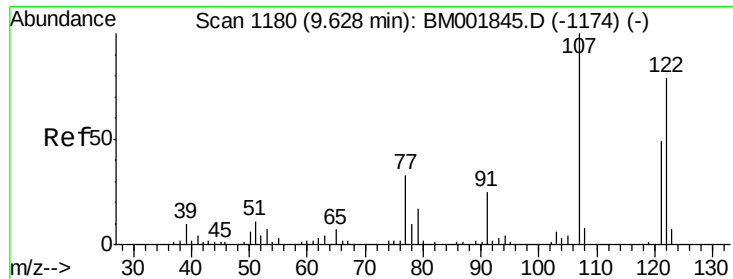
500

0

8.72 8.74 8.76 8.78

Time-->

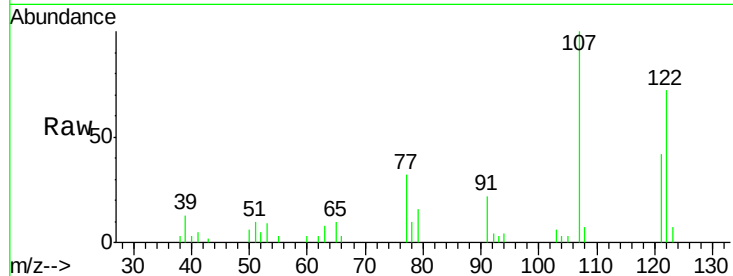




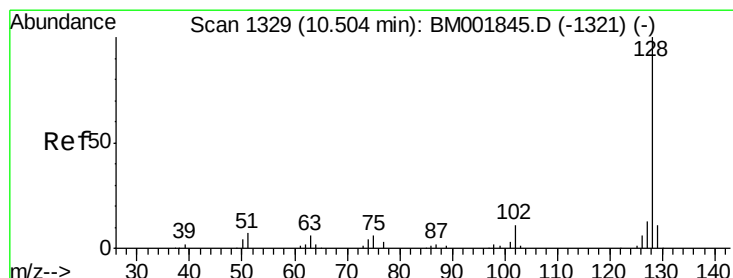
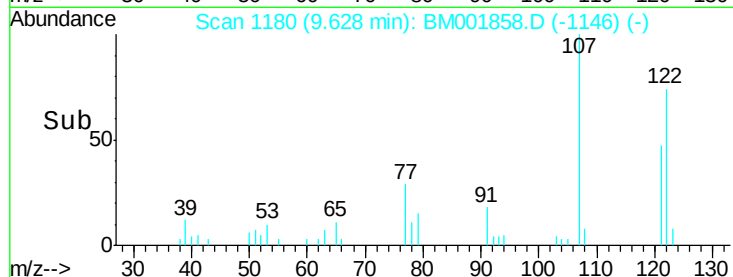
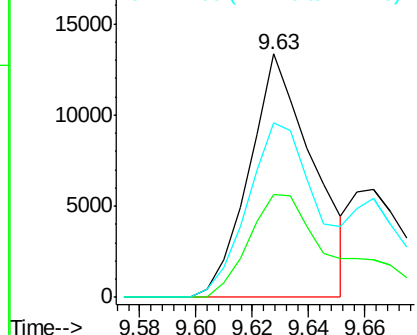
#24
2,4-Dimethylphenol
Concen: 5.04 ng/ul
RT: 9.63 min Scan# 1180
Delta R.T. 0.00 min
Lab File: BM001858.D
Acq: 07 Jul 2015 05:34

Instrument :
BNA_M
ClientSampled :
G93J3

Tgt Ion:107 Resp: 20980
Ion Ratio Lower Upper
107 100
121 42.4 37.4 56.2
122 71.8 59.2 88.8

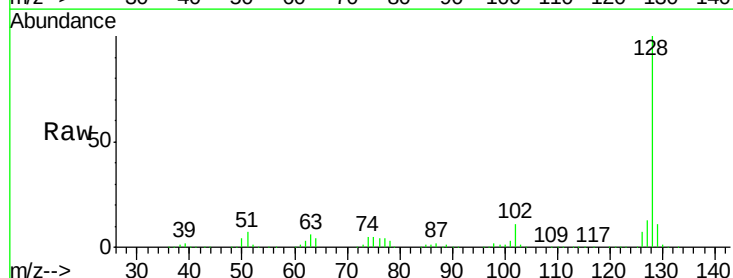


Abundance Ion 107.00 (106.70 to 107.70): E
Ion 121.00 (120.70 to 121.70): E
Ion 122.00 (121.70 to 122.70): E

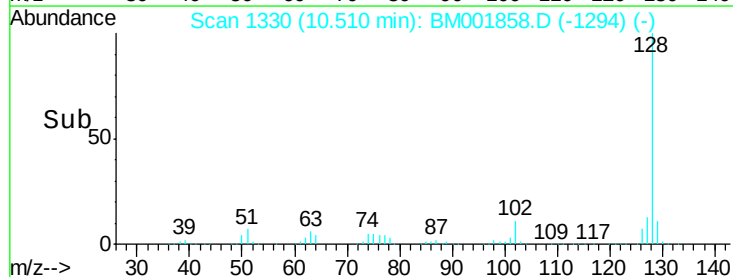
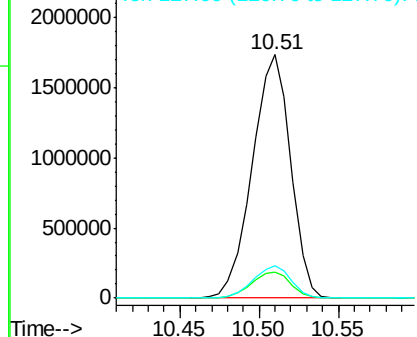


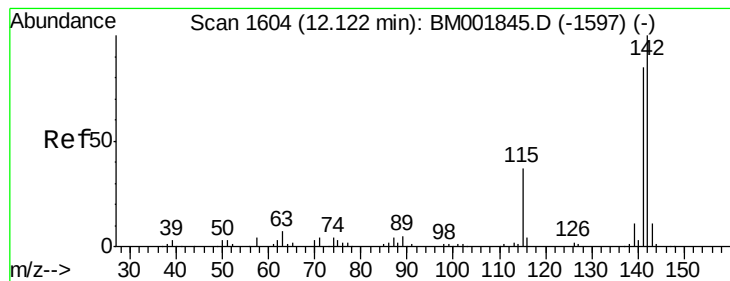
#28
Naphthalene
Concen: 266.36 ng/ul
RT: 10.51 min Scan# 1330
Delta R.T. 0.01 min
Lab File: BM001858.D
Acq: 07 Jul 2015 05:34

Tgt Ion:128 Resp: 2924572
Ion Ratio Lower Upper
128 100
129 10.9 8.7 13.1
127 13.1 10.0 15.0



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: 77.97 ng/ul

RT: 12.12 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

Instrument :

BNA_M

ClientSampleId :

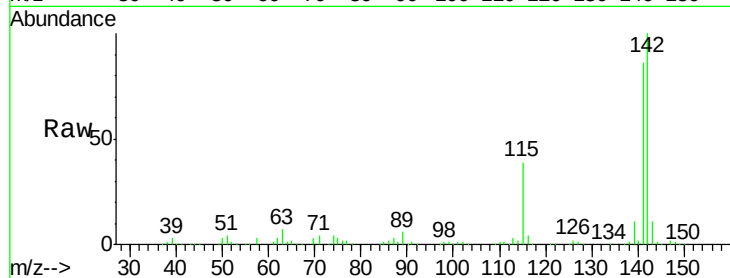
G93J3

Tgt Ion:142 Resp: 619140

Ion Ratio Lower Upper

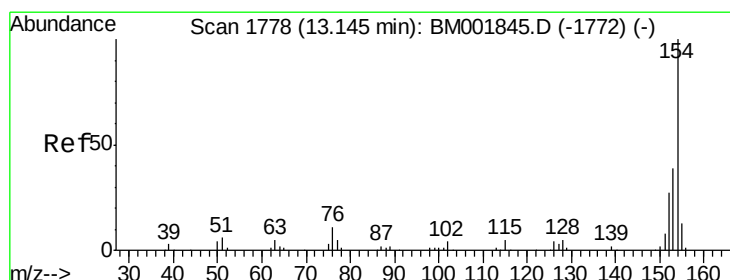
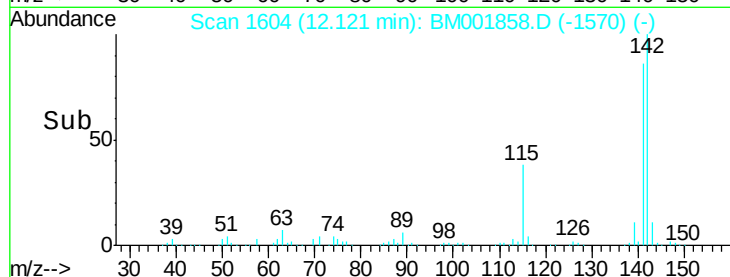
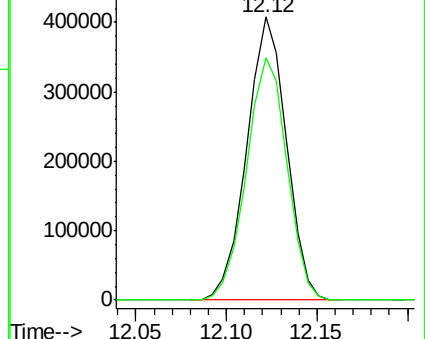
142 100

141 85.7 71.6 107.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#40

1,1'-Biphenyl

Concen: 12.81 ng/ul

RT: 13.14 min Scan# 1778

Delta R.T. 0.00 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

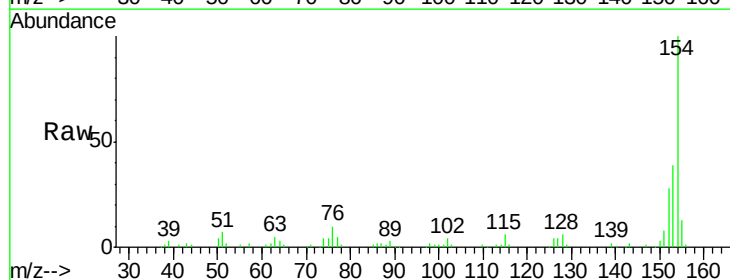
Tgt Ion:154 Resp: 132951

Ion Ratio Lower Upper

154 100

153 39.3 32.5 48.7

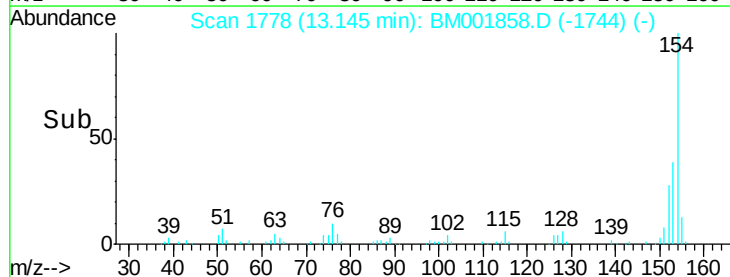
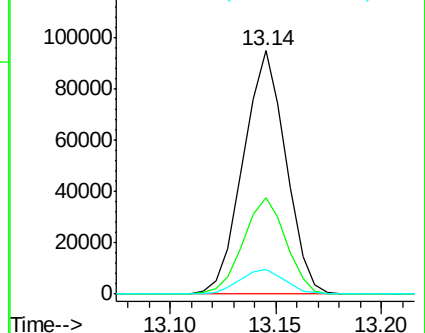
76 10.3 9.0 13.6

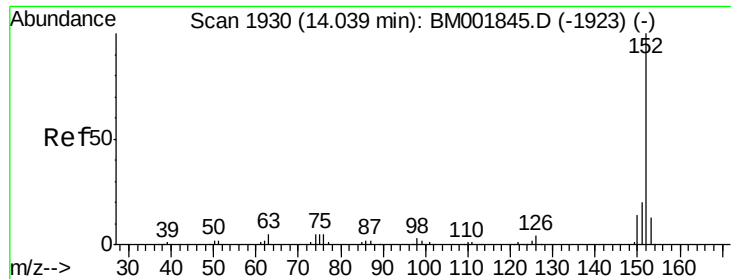


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM





#47

Acenaphthylene

Concen: 31.78 ng/ul

RT: 14.04 min Scan# 1930

Delta R.T. 0.01 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

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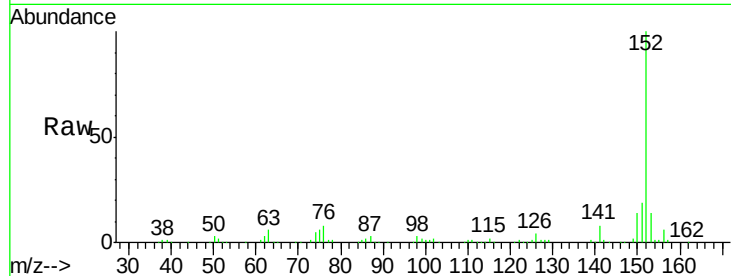
Tgt Ion:152 Resp: 400458

Ion Ratio Lower Upper

152 100

151 19.4 15.9 23.9

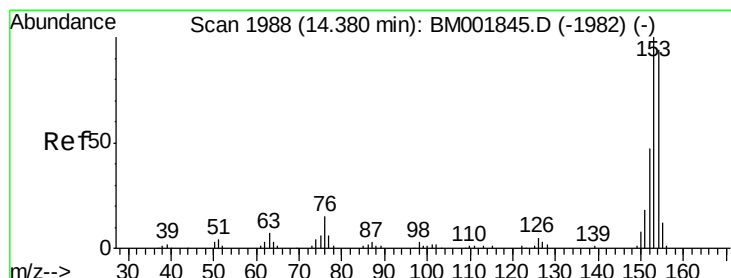
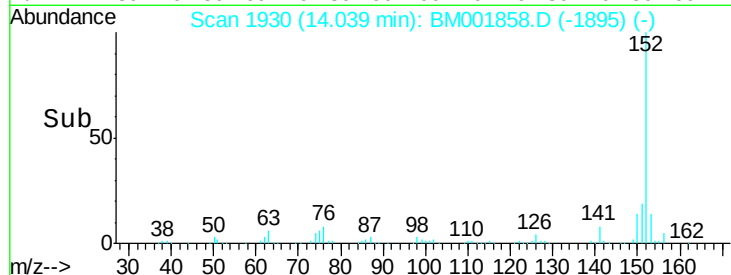
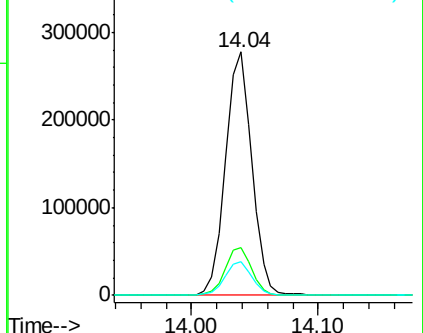
153 13.8 10.0 15.0



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



#49

Acenaphthene

Concen: 6.93 ng/ul

RT: 14.38 min Scan# 1988

Delta R.T. 0.00 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

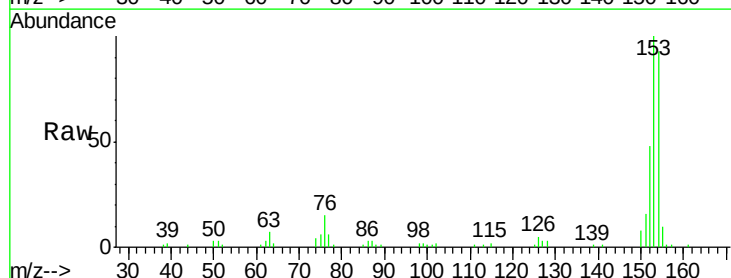
Tgt Ion:153 Resp: 58367

Ion Ratio Lower Upper

153 100

152 48.1 36.6 55.0

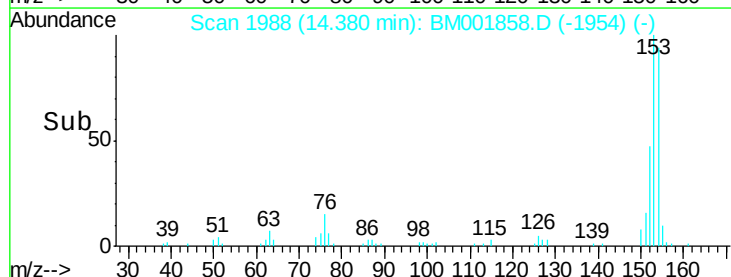
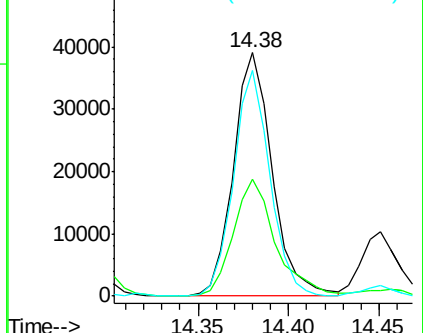
154 92.6 72.6 108.8

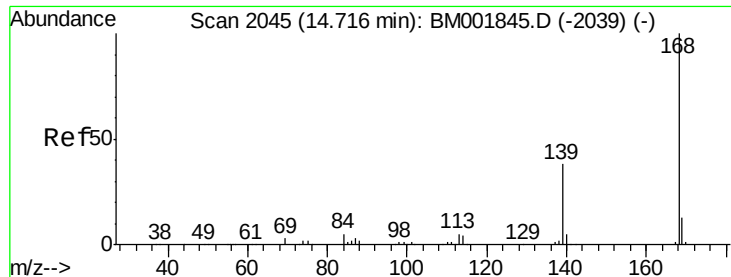


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

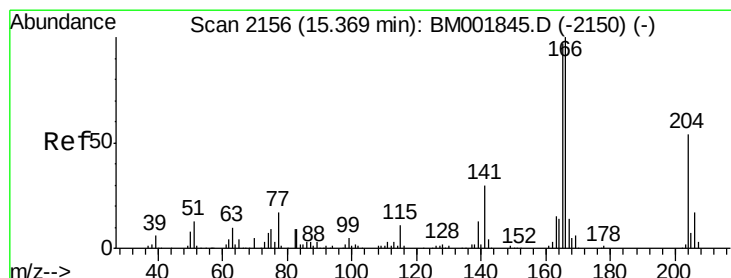
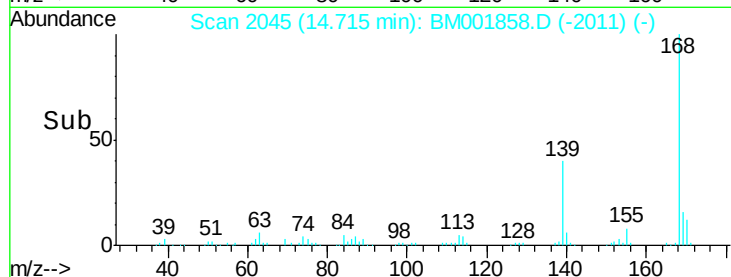
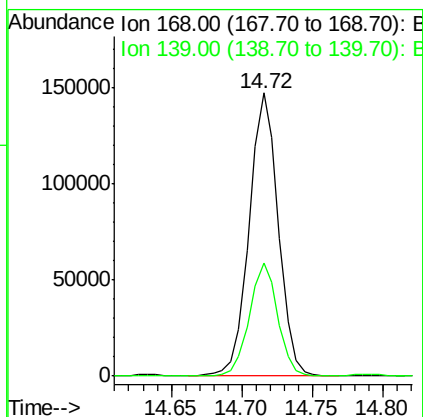
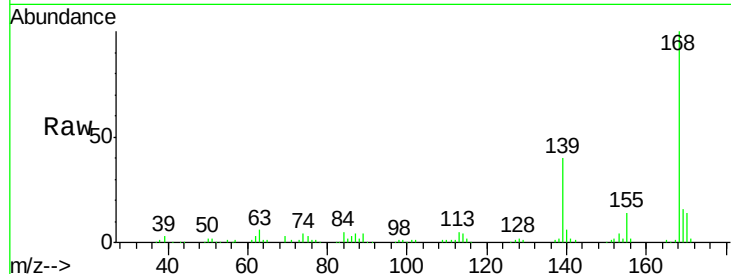




#53
Dibenzenofuran
Concen: 17.69 ng/ul
RT: 14.72 min Scan# 2045
Delta R.T. 0.00 min
Lab File: BM001858.D
Acq: 07 Jul 2015 05:34

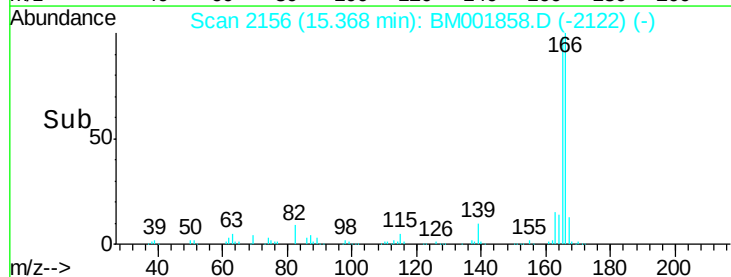
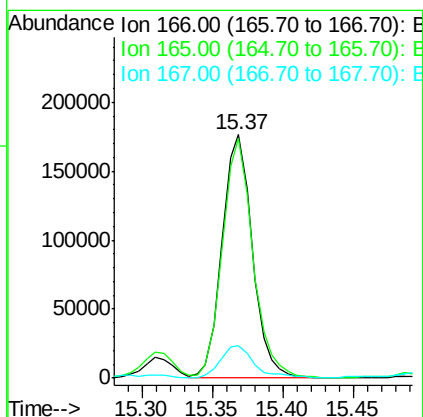
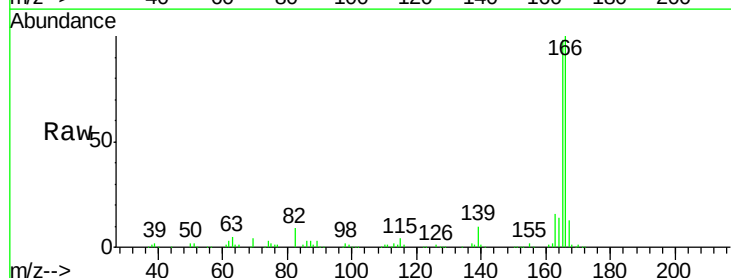
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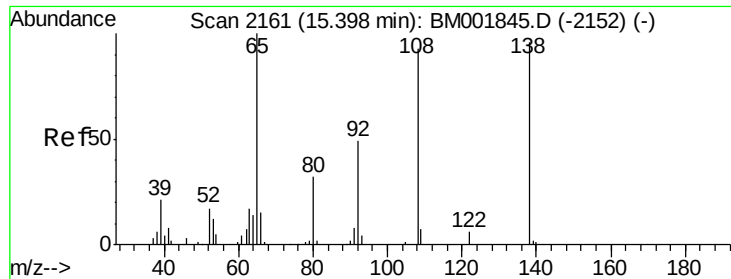
Tgt Ion:168 Resp: 213301
Ion Ratio Lower Upper
168 100
139 40.1 30.1 45.1



#58
Fluorene
Concen: 26.15 ng/ul
RT: 15.37 min Scan# 2156
Delta R.T. 0.00 min
Lab File: BM001858.D
Acq: 07 Jul 2015 05:34

Tgt Ion:166 Resp: 262397
Ion Ratio Lower Upper
166 100
165 98.4 77.4 116.2
167 13.2 11.3 16.9





#60

4-Nitroaniline

Concen: 1.43 ng/ul

RT: 15.36 min Scan# 2155

Delta R.T. -0.03 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

Instrument :

BNA_M

ClientSampleId :

G93J3

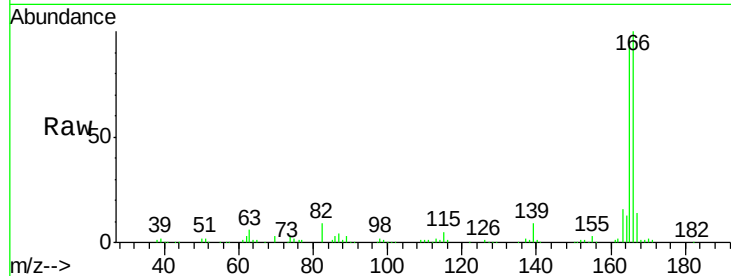
Tgt Ion:138 Resp: 2931

Ion Ratio Lower Upper

138 100

92 0.0 45.6 68.4#

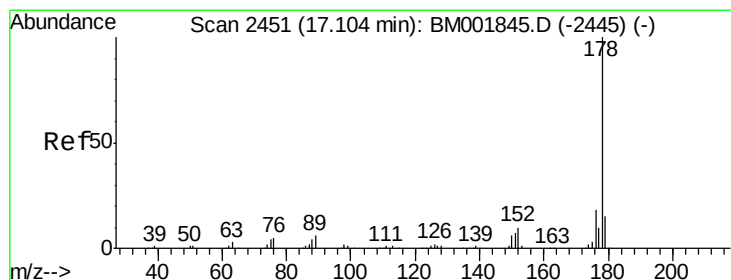
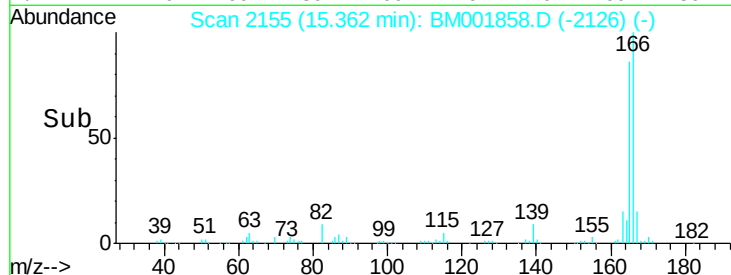
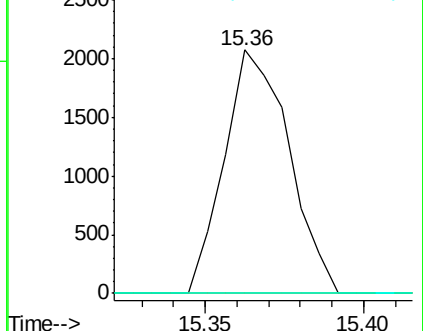
108 0.0 89.6 134.4#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BM001845.D (-2152) (-)

Ion 108.00 (107.70 to 108.70): E



#69

Phenanthrene

Concen: 101.52 ng/ul

RT: 17.11 min Scan# 2452

Delta R.T. 0.01 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

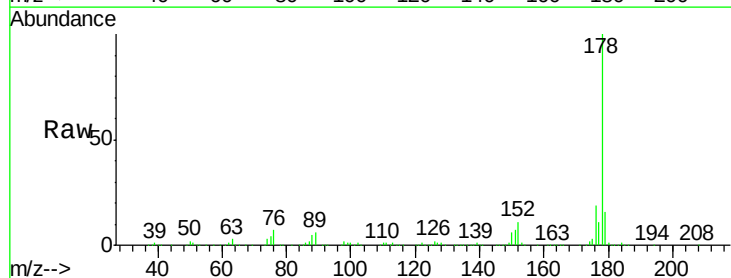
Tgt Ion:178 Resp: 1600038

Ion Ratio Lower Upper

178 100

179 15.5 11.9 17.9

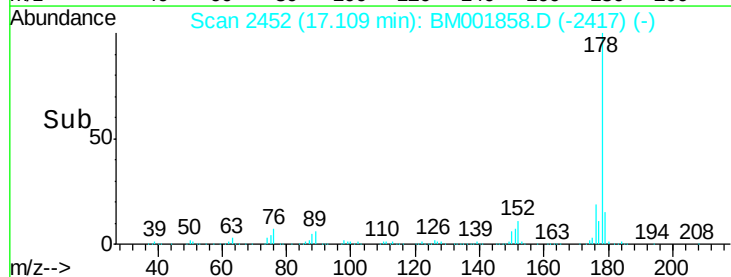
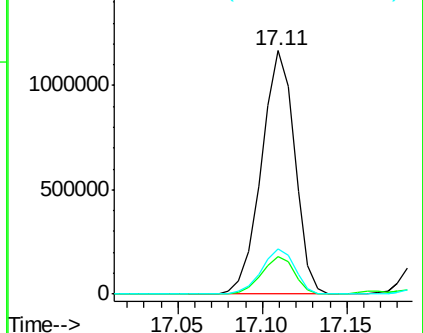
176 18.6 15.2 22.8

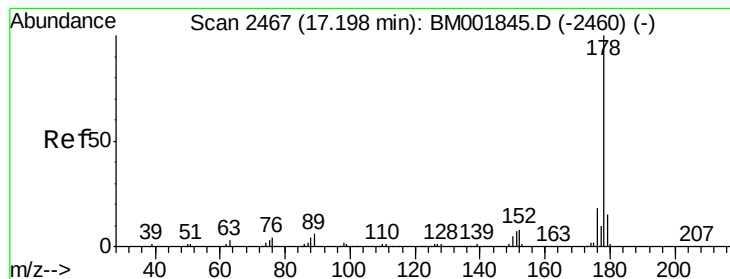


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 21.08 ng/ul

RT: 17.20 min Scan# 2467

Delta R.T. 0.01 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

Instrument :

BNA_M

ClientSampleId :

G93J3

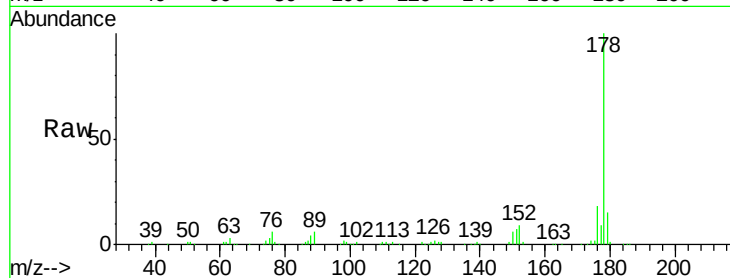
Tgt Ion:178 Resp: 341051

Ion Ratio Lower Upper

178 100

179 15.3 11.8 17.8

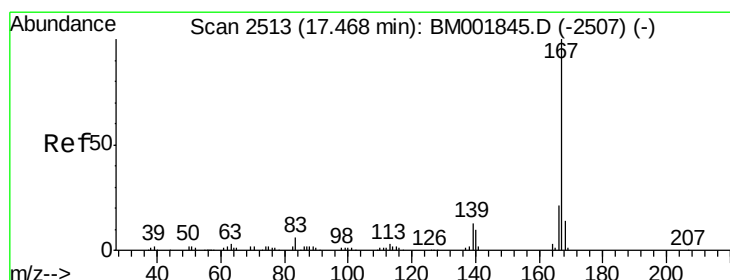
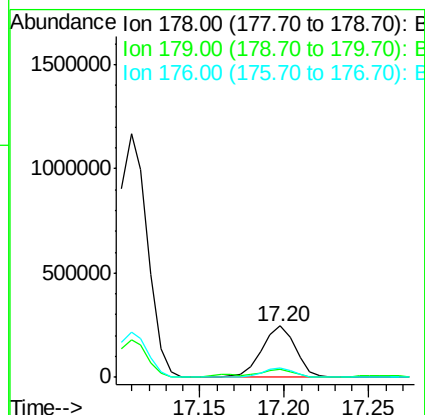
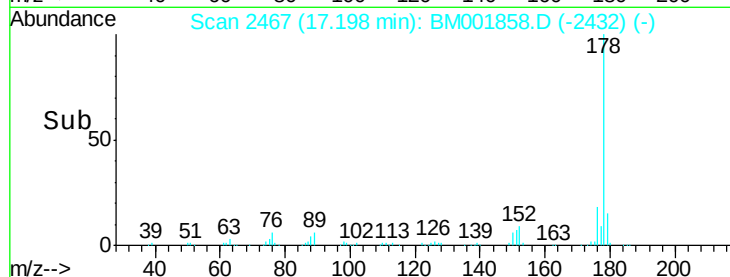
176 17.7 14.4 21.6



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



#74

Carbazole

Concen: 7.07 ng/ul

RT: 17.47 min Scan# 2513

Delta R.T. 0.00 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

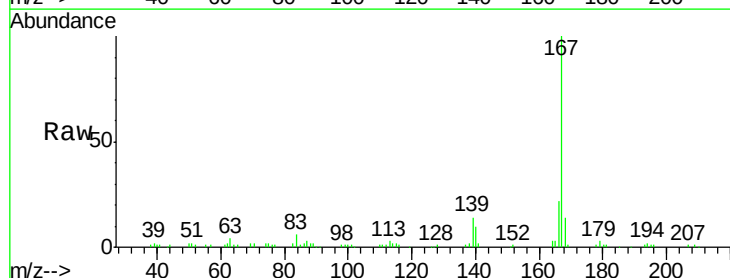
Tgt Ion:167 Resp: 100434

Ion Ratio Lower Upper

167 100

166 21.9 17.4 26.2

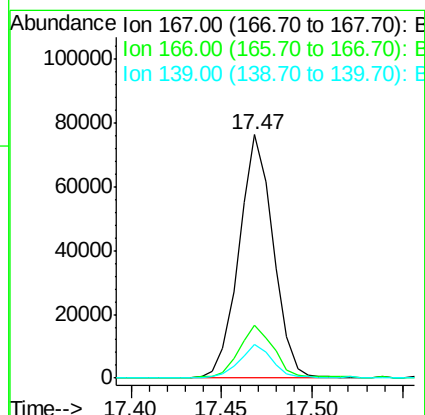
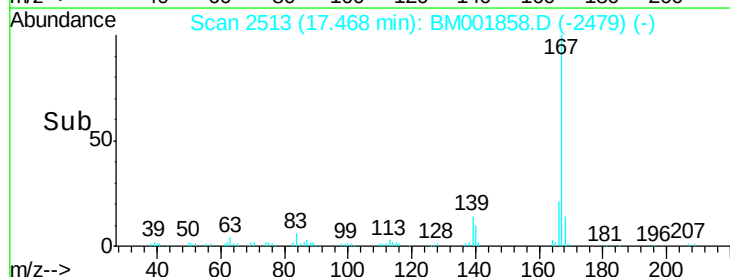
139 13.6 10.1 15.1

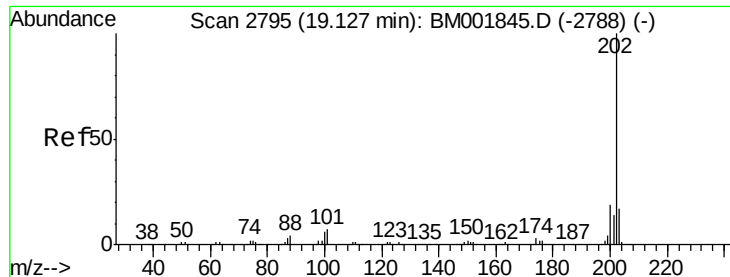


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

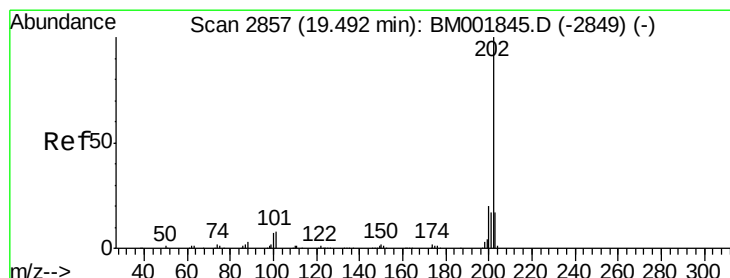
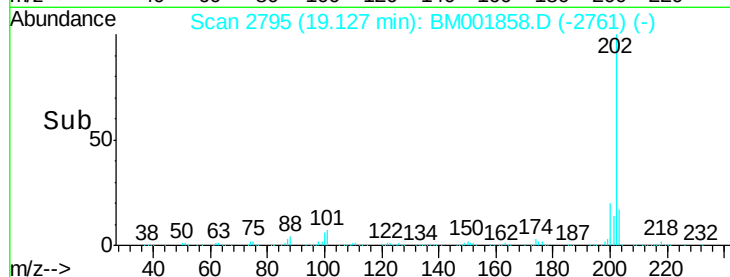
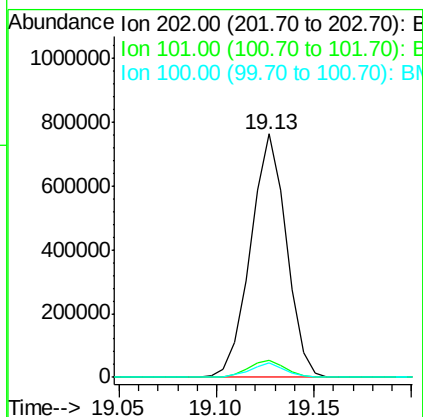
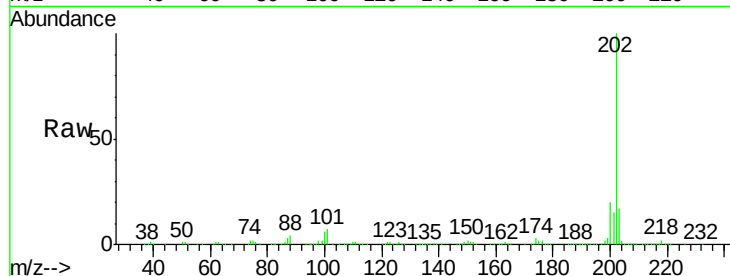




#76
Fluoranthene
Concen: 51.45 ng/ul
RT: 19.13 min Scan# 2795
Delta R.T. 0.00 min
Lab File: BM001858.D
Acq: 07 Jul 2015 05:34

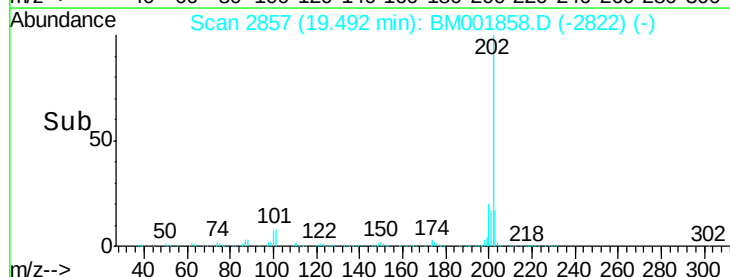
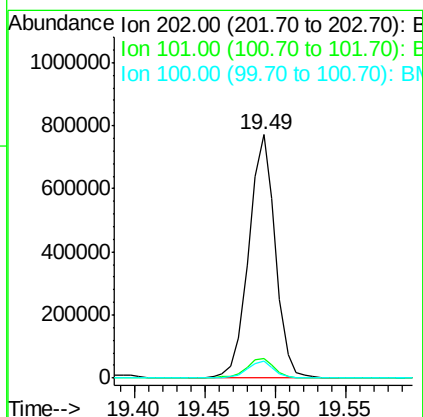
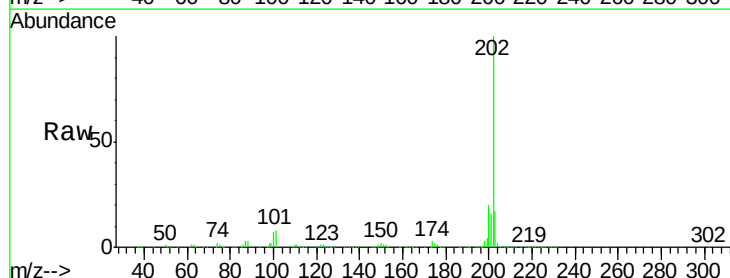
Instrument :
BNA_M
ClientSampleId :
G93J3

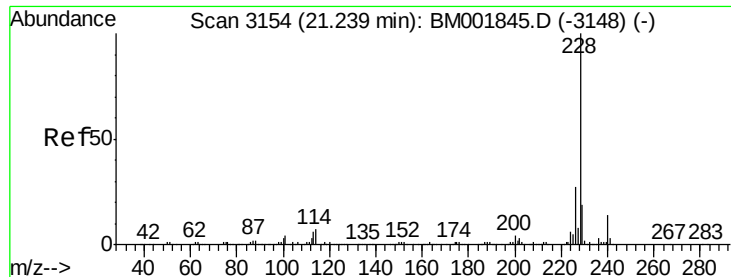
Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.0	6.1	9.1
100	5.7	4.8	7.2



#79
Pyrene
Concen: 52.25 ng/ul
RT: 19.49 min Scan# 2857
Delta R.T. 0.01 min
Lab File: BM001858.D
Acq: 07 Jul 2015 05:34

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.0	6.9	10.3
100	7.0	6.2	9.2





#82

Benzo(a)anthracene

Concen: 18.05 ng/ul

RT: 21.24 min Scan# 3154

Delta R.T. 0.00 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

Instrument :

BNA_M

ClientSampleId :

G93J3

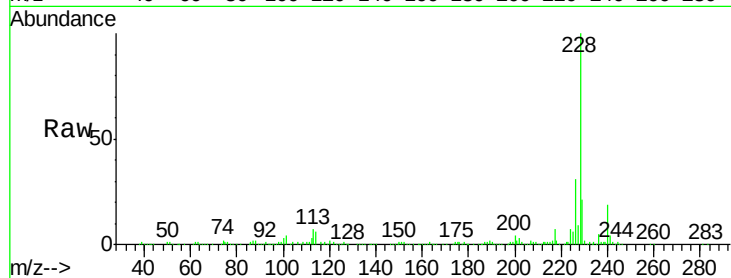
Tgt Ion:228 Resp: 369601

Ion Ratio Lower Upper

228 100

229 20.8 15.4 23.0

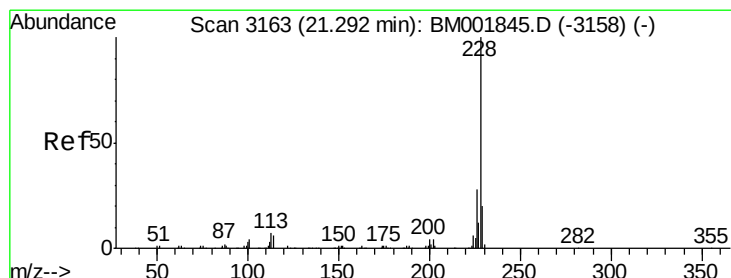
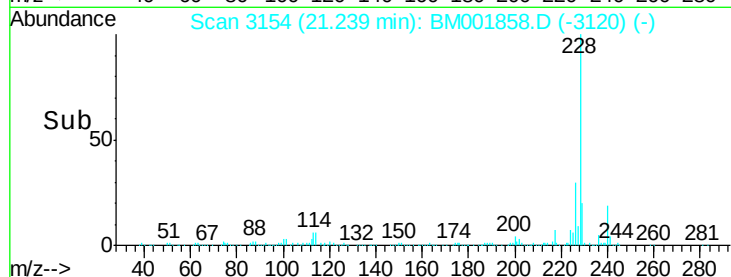
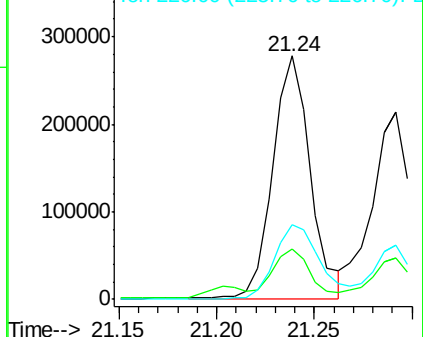
226 30.5 20.6 30.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#84

Chrysene

Concen: 14.77 ng/ul

RT: 21.29 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

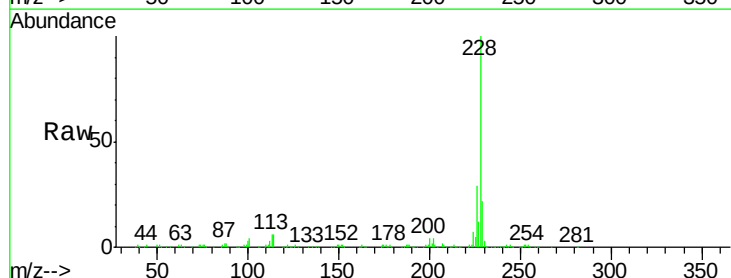
Tgt Ion:228 Resp: 286666

Ion Ratio Lower Upper

228 100

226 29.3 23.0 34.4

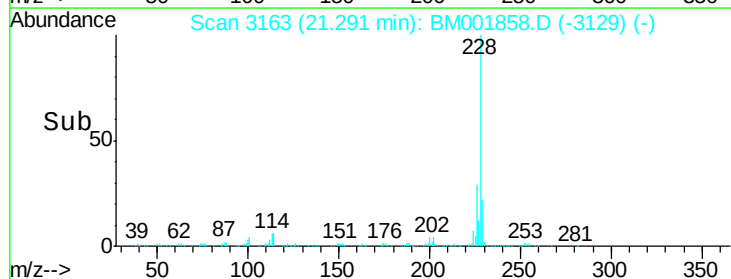
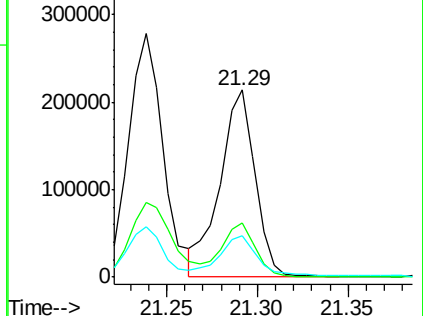
229 22.3 15.4 23.2

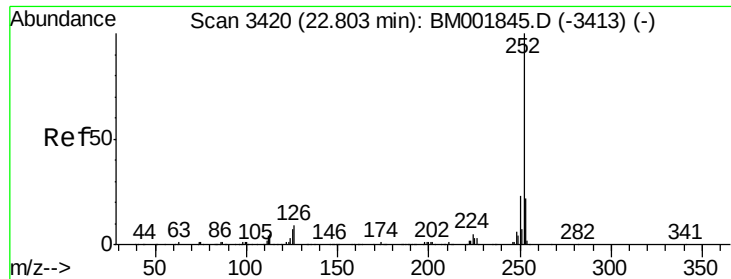


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

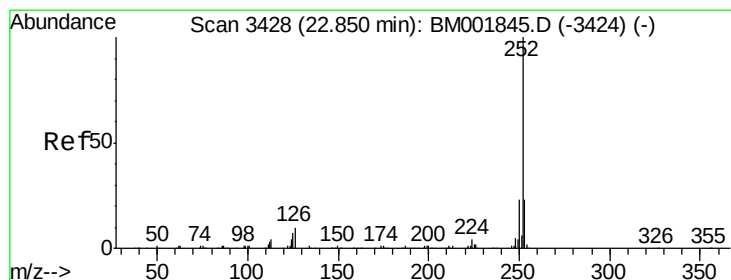
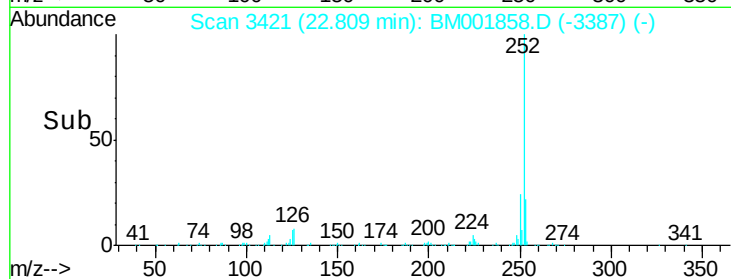
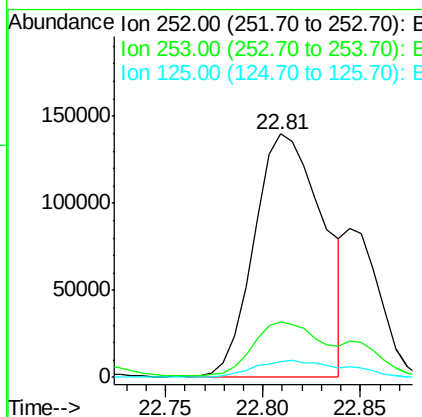
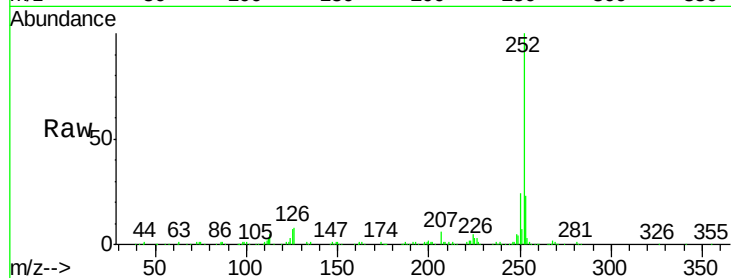




#87
Benzo(b)fluoranthene
Concen: 16.42 ng/ul
RT: 22.81 min Scan# 3421
Delta R.T. 0.00 min
Lab File: BM001858.D
Acq: 07 Jul 2015 05:34

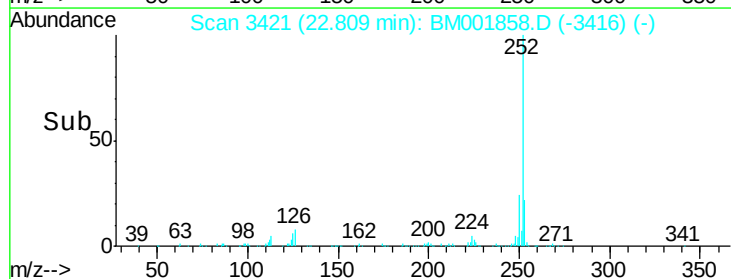
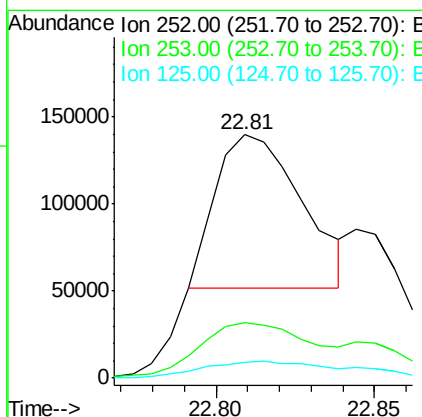
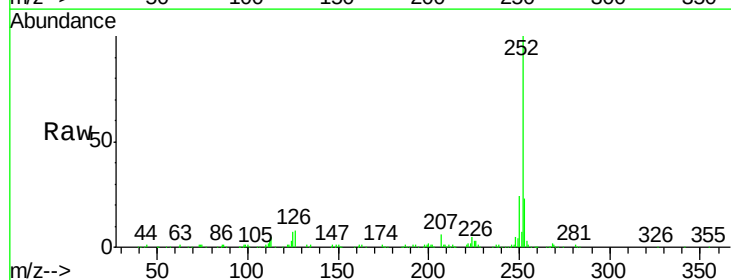
Instrument :
BNA_M
ClientSampleId :
G93J3

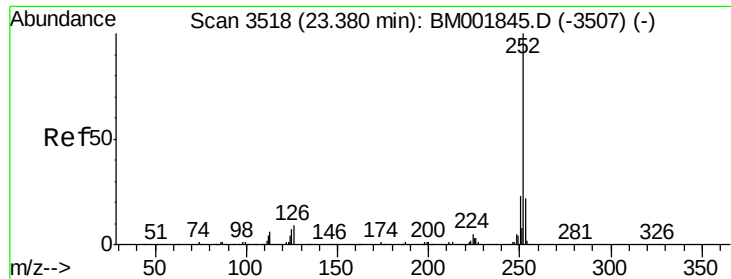
Tgt Ion:252 Resp: 339864
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.6
125 6.6 5.3 7.9



#88
Benzo(k)fluoranthene
Concen: 8.28 ng/ul
RT: 22.81 min Scan# 3421
Delta R.T. -0.04 min
Lab File: BM001858.D
Acq: 07 Jul 2015 05:34

Tgt Ion:252 Resp: 165600
Ion Ratio Lower Upper
252 100
253 22.8 17.1 25.7
125 6.6 5.3 7.9





#90

Benzo(a)pyrene

Concen: 16.10 ng/ul

RT: 23.38 min Scan# 3518

Delta R.T. 0.00 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

Instrument :

BNA_M

ClientSampleId :

G93J3

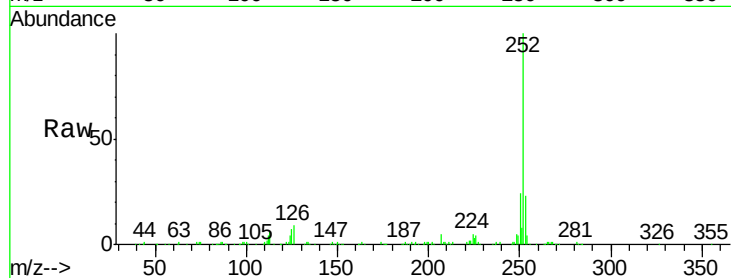
Tgt Ion:252 Resp: 324057

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

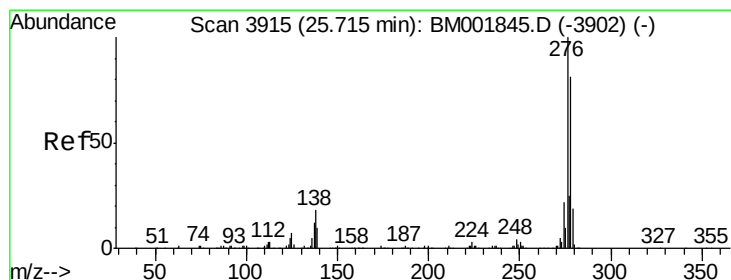
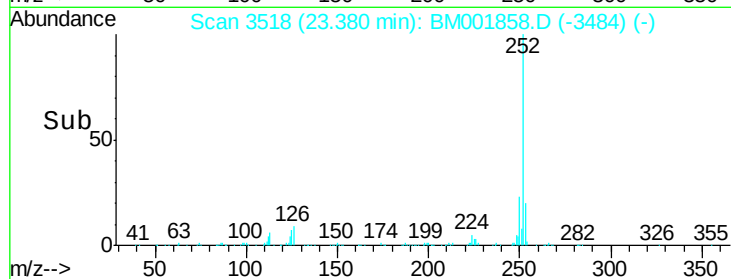
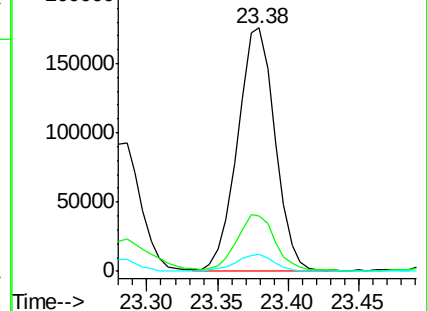
125 6.8 6.0 9.0



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

Indeno(1,2,3-cd)pyrene

Concen: 7.64 ng/ul

RT: 25.71 min Scan# 3914

Delta R.T. 0.00 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

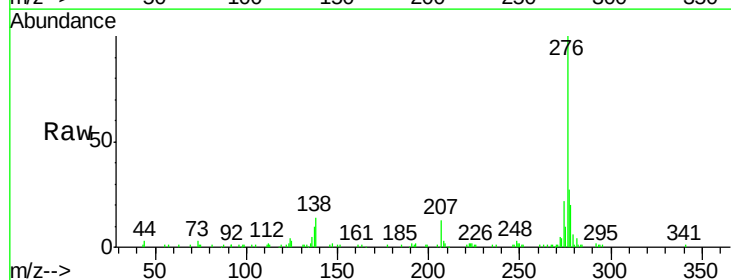
Tgt Ion:276 Resp: 182310

Ion Ratio Lower Upper

276 100

138 14.3 14.7 22.1#

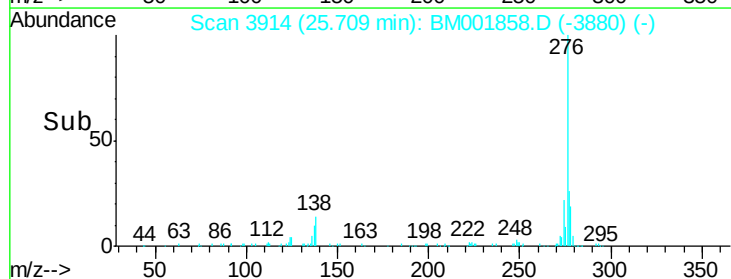
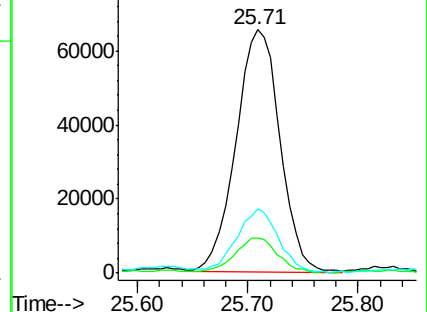
277 26.6 19.7 29.5

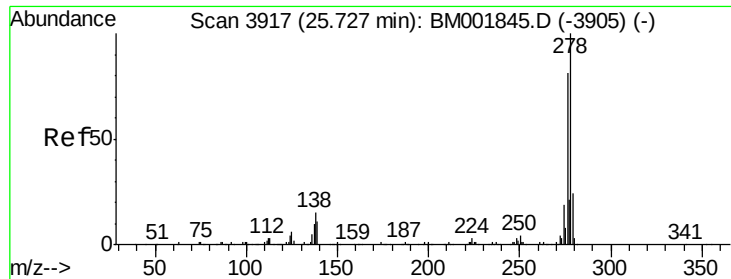


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#92

Dibenzo(a,h)anthracene

Concen: 1.97 ng/ul

RT: 25.71 min Scan# 3915

Delta R.T. -0.01 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

Instrument :

BNA_M

ClientSampleId :

G93J3

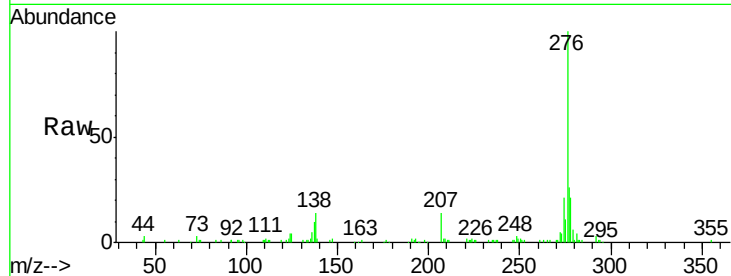
Tgt Ion:278 Resp: 39776

Ion Ratio Lower Upper

278 100

139 11.8 9.2 13.8

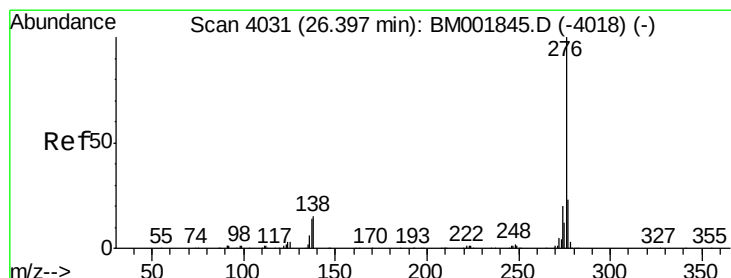
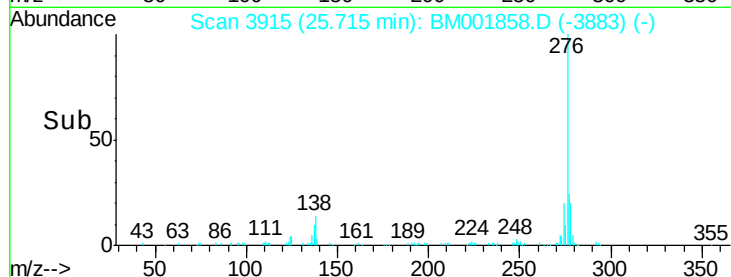
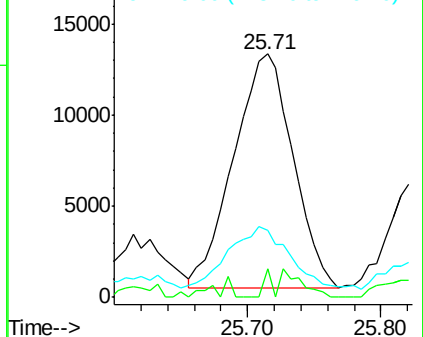
279 27.3 19.1 28.7



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



#93

Benzo(g,h,i)perylene

Concen: 5.51 ng/ul

RT: 26.40 min Scan# 4031

Delta R.T. -0.01 min

Lab File: BM001858.D

Acq: 07 Jul 2015 05:34

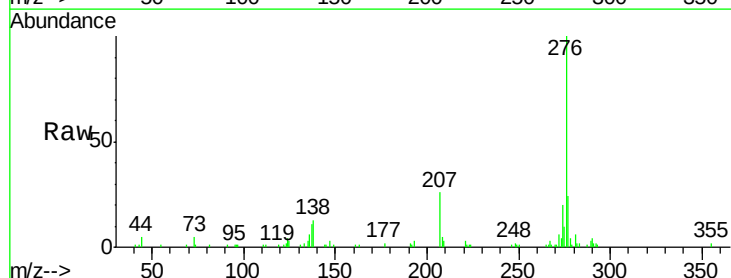
Tgt Ion:276 Resp: 110709

Ion Ratio Lower Upper

276 100

138 13.2 12.6 19.0

277 24.4 18.7 28.1



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

