

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM070615\
 Data File : BM001868.D
 Acq On : 07 Jul 2015 15:14
 Operator : TP/UM
 Sample : G2861-11
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 G93L5

Quant Time: Jul 08 02:20:49 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM061515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jul 08 02:11:29 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	67424	20.00	ng/ul	0.00
18) Naphthalene-d8	10.46	136	253879	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.32	164	144248	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.07	188	320378	20.00	ng/ul	0.01
77) Chrysene-d12	21.27	240	379043	20.00	ng/ul	0.01
85) Perylene-d12	23.50	264	391860	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.15	96	2778	1.96	ng/uL	0.00
5) Phenol-d5	6.84	99	65522	12.65	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.00	67	38059	13.12	ng/ul	0.00
9) 2-Chlorophenol-d4	7.20	132	55033	13.44	ng/ul	0.00
13) 4-Methylphenol-d8	8.37	113	48815	11.74	ng/ul	0.00
19) Nitrobenzene-d5	8.83	128	25573	14.55	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	28539	14.85	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.08	165	57399	13.95	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	43586	10.42	ng/ul	0.00
43) Dimethylphthalate-d6	13.73	166	151219	14.14	ng/ul	0.00
46) Acenaphthylene-d8	14.02	160	192532	13.73	ng/ul	0.00
51) 4-Nitrophenol-d4	14.53	143	20120	10.20	ng/ul	0.01
57) Fluorene-d10	15.32	176	139906	14.10	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.44	200	6707	3.43	ng/ul	0.00
70) Anthracene-d10	17.17	188	209729	14.05	ng/ul	0.00
78) Pyrene-d10	19.47	212	223432	13.92	ng/ul	0.01
89) Benzo(a)pyrene-d12	23.36	264	208485	12.07	ng/ul	0.03

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.89	88	13000	8.05	ng/uL#	1
14) Acetophenone	8.49	105	7695	1.17	ng/ul	95
17) Hexachloroethane	8.76	117	2871	1.69	ng/ul#	1
28) Naphthalene	10.50	128	52282	4.08	ng/ul	96
32) Caprolactam	11.47	113	1863	1.56	ng/ul#	34
34) 2-Methylnaphthalene	12.13	142	63939	6.90	ng/ul	98
40) 1,1'-Biphenyl	13.15	154	16538	1.40	ng/ul	93
44) Dimethylphthalate	13.78	163	54212	4.64	ng/ul	98
47) Acenaphthylene	14.05	152	48809	3.41	ng/ul#	95
49) Acenaphthene	14.39	153	22254	2.33	ng/ul	96
53) Dibenzofuran	14.72	168	31752	2.32	ng/ul	91
58) Fluorene	15.37	166	23745	2.09	ng/ul#	93
69) Phenanthrene	17.12	178	406183	23.38	ng/ul	98
71) Anthracene	17.20	178	105509	5.92	ng/ul	97
74) Carbazole	17.48	167	42542	2.72	ng/ul#	94
76) Fluoranthene	19.14	202	595163	28.64	ng/ul	99
79) Pyrene	19.50	202	575499	27.37	ng/ul	99
82) Benzo(a)anthracene	21.26	228	355691	16.06	ng/ul	95
84) Chrysene	21.31	228	346133	16.49	ng/ul	97
87) Benzo(b)fluoranthene	22.84	252	580310	25.44	ng/ul	99
88) Benzo(k)fluoranthene	22.84	252	174049	7.90	ng/ul	97
90) Benzo(a)pyrene	23.41	252	421756	19.01	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.76	276	418394	15.90	ng/ul	97

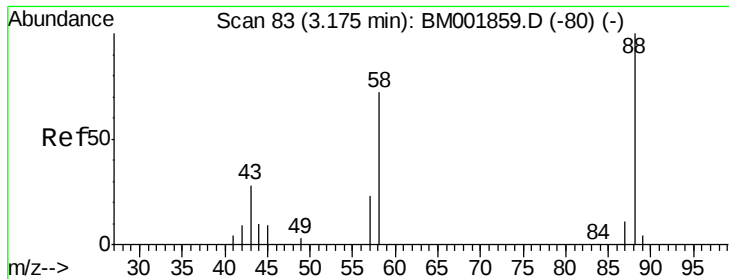
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM070615\
Data File : BM001868.D
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Quant Title : SVOA CALIBRATION
QLast Update : Wed Jul 08 02:11:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Dibenzo(a,h)anthracene	25.77	278	104109	4.69	ng/ul#	90
93) Benzo(g,h,i)perylene	26.46	276	319144	14.42	ng/ul	99

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



#2

1,4-Dioxane

Concen: 8.05 ng/uL

RT: 2.89 min Scan# 34

Delta R.T. -0.29 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

Instrument :

BNA_M

ClientSampled :

G93L5

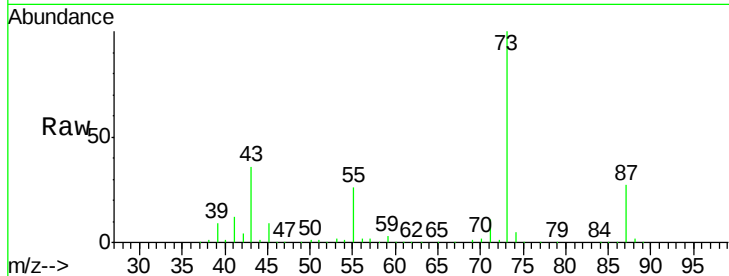
Tgt Ion: 88 Resp: 13000

Ion Ratio Lower Upper

88 100

43 2228.9 24.2 36.4#

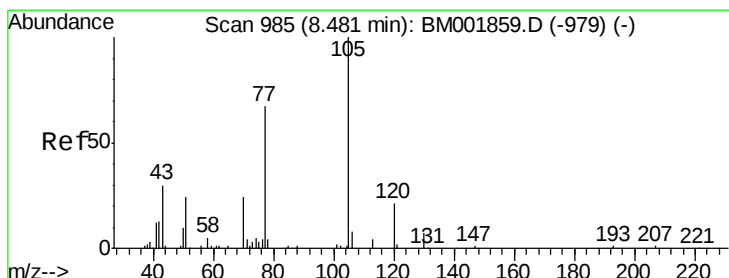
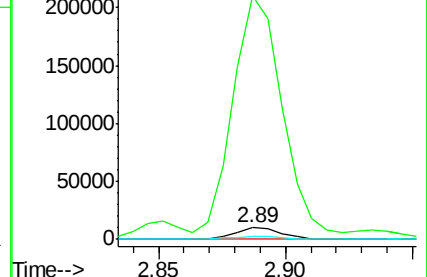
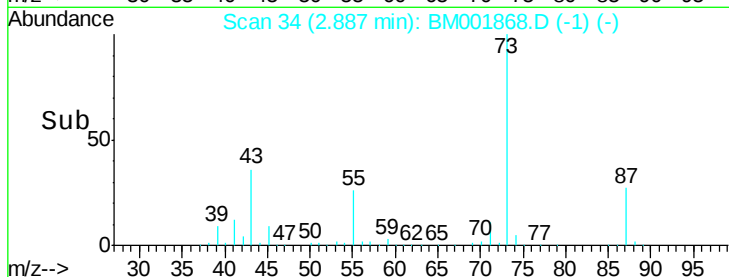
58 28.3 56.2 84.2#



Abundance Ion 88.00 (87.70 to 88.70): BM001859.D (-80) (-)

Ion 43.00 (42.70 to 43.70): BM001859.D (-80) (-)

Ion 58.00 (57.70 to 58.70): BM001859.D (-80) (-)



#14

Acetophenone

Concen: 1.17 ng/uL

RT: 8.49 min Scan# 987

Delta R.T. 0.01 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

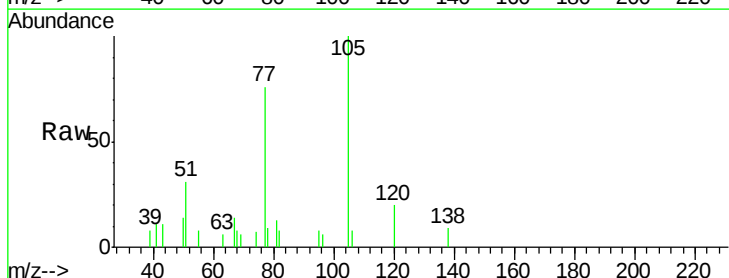
Tgt Ion: 105 Resp: 7695

Ion Ratio Lower Upper

105 100

77 75.8 64.2 96.4

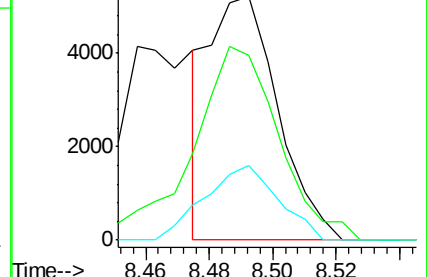
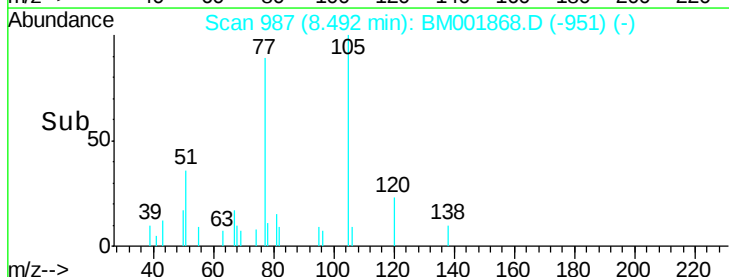
51 30.8 22.0 33.0

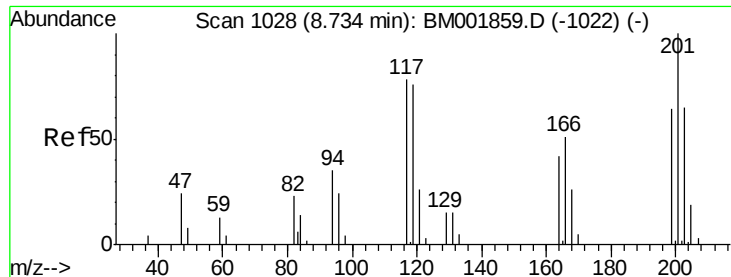


Abundance Ion 105.00 (104.70 to 105.70): BM001859.D (-979) (-)

Ion 77.00 (76.70 to 77.70): BM001859.D (-979) (-)

Ion 51.00 (50.70 to 51.70): BM001859.D (-979) (-)

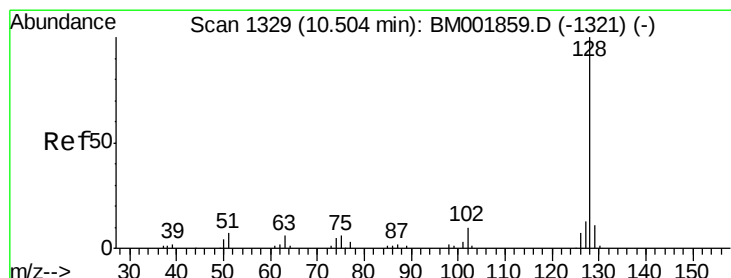
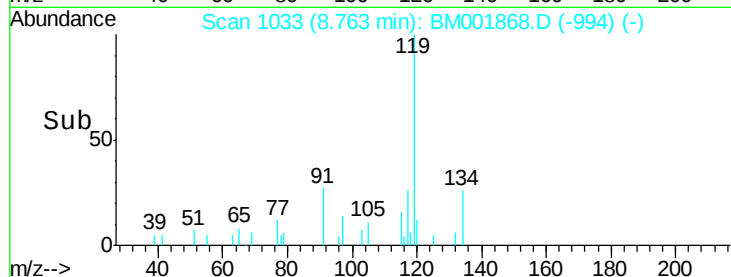
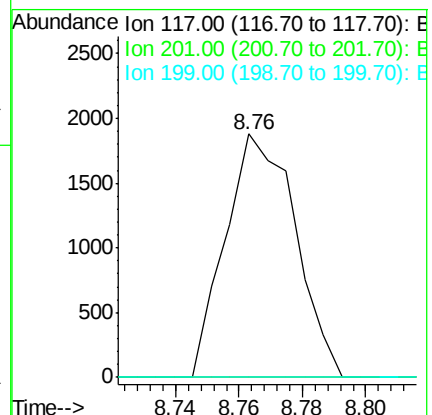
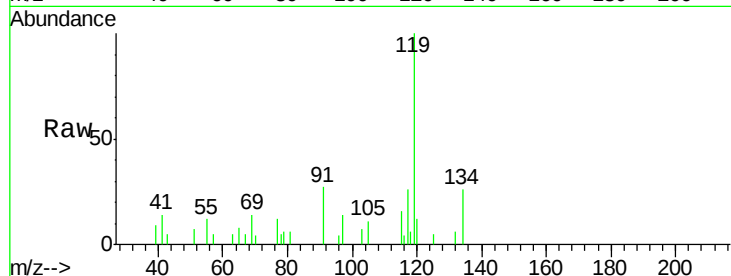




#17
Hexachloroethane
Concen: 1.69 ng/ul
RT: 8.76 min Scan# 1033
Delta R.T. 0.03 min
Lab File: BM001868.D
Acq: 07 Jul 2015 15:14

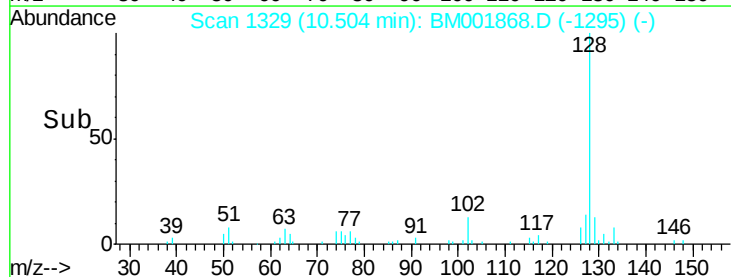
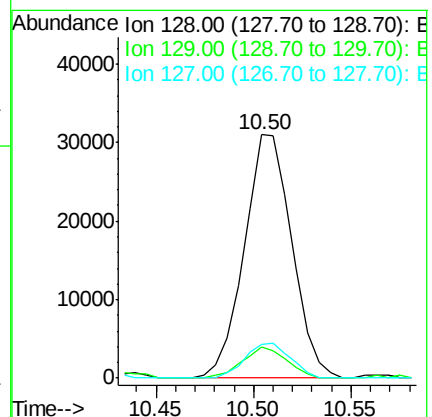
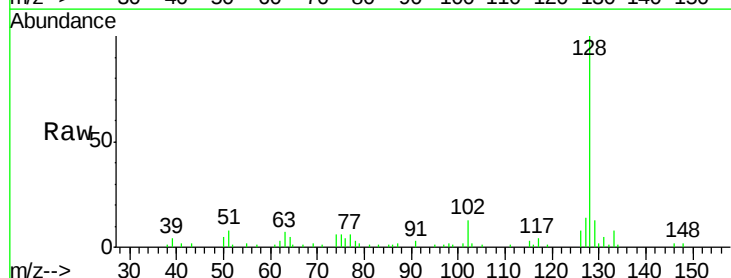
Instrument :
BNA_M
ClientSampleId :
G93L5

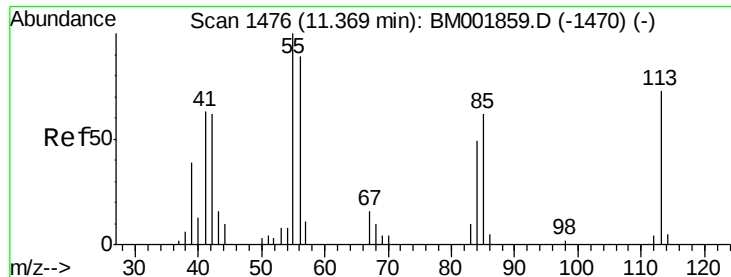
Tgt Ion:117 Resp: 2871
Ion Ratio Lower Upper
117 100
201 0.0 92.1 138.1#
199 0.0 60.6 90.8#



#28
Naphthalene
Concen: 4.08 ng/ul
RT: 10.50 min Scan# 1329
Delta R.T. 0.00 min
Lab File: BM001868.D
Acq: 07 Jul 2015 15:14

Tgt Ion:128 Resp: 52282
Ion Ratio Lower Upper
128 100
129 12.8 8.7 13.1
127 14.0 10.0 15.0

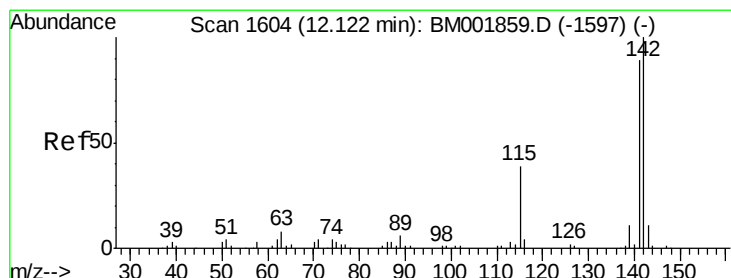
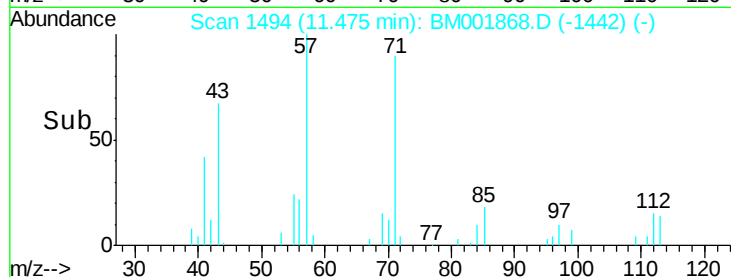
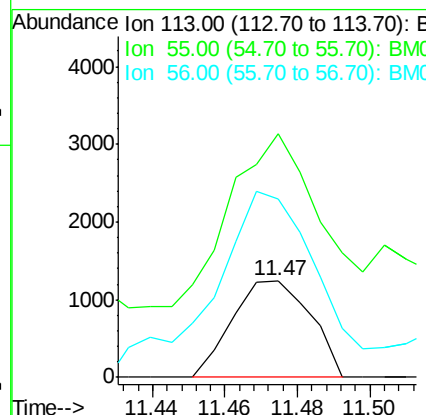
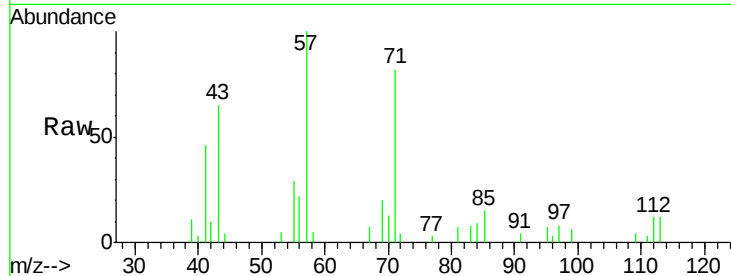




#32
 Caprolactam
 Concen: 1.56 ng/ul
 RT: 11.47 min Scan# 1494
 Delta R.T. 0.11 min
 Lab File: BM001868.D
 Acq: 07 Jul 2015 15:14

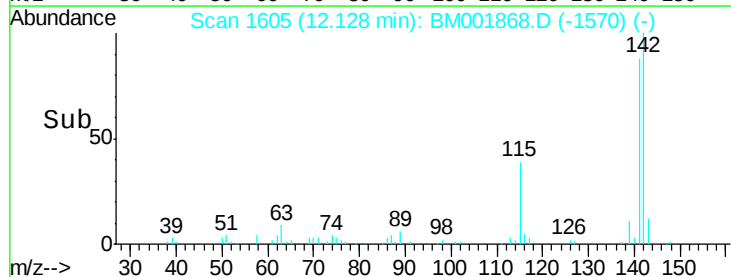
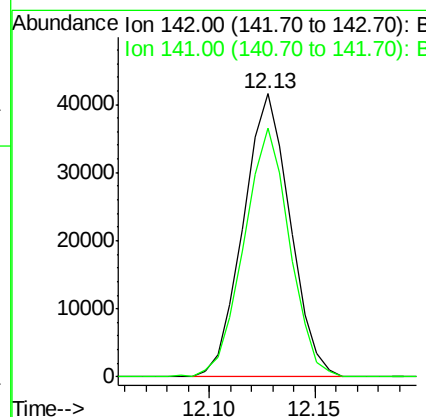
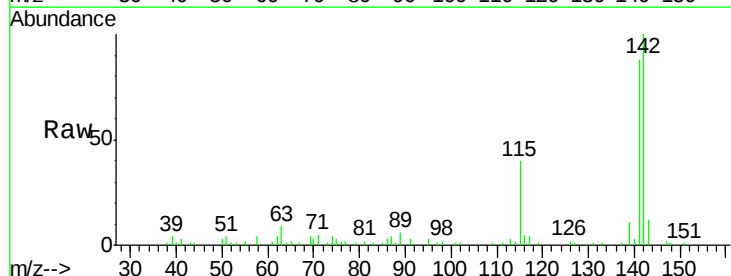
Instrument :
 BNA_M
 ClientSampleId :
 G93L5

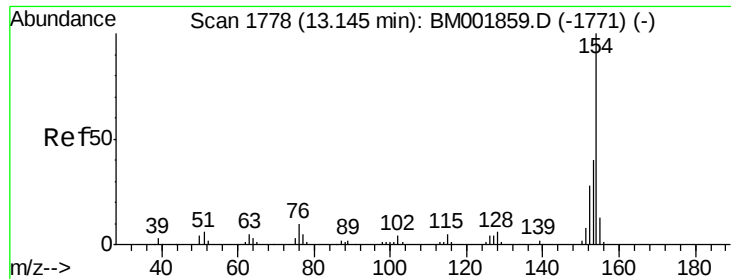
Tgt Ion:113 Resp: 1863
 Ion Ratio Lower Upper
 113 100
 55 251.2 123.3 184.9#
 56 184.1 98.6 147.8#



#34
 2-Methylnaphthalene
 Concen: 6.90 ng/ul
 RT: 12.13 min Scan# 1605
 Delta R.T. 0.01 min
 Lab File: BM001868.D
 Acq: 07 Jul 2015 15:14

Tgt Ion:142 Resp: 63939
 Ion Ratio Lower Upper
 142 100
 141 88.0 71.6 107.4





#40

1,1'-Biphenyl

Concen: 1.40 ng/ul

RT: 13.15 min Scan# 1779

Delta R.T. 0.01 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

Instrument :

BNA_M

ClientSampled :

G93L5

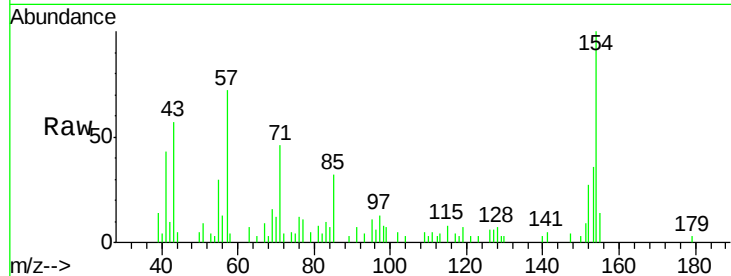
Tgt Ion:154 Resp: 16538

Ion Ratio Lower Upper

154 100

153 35.5 32.5 48.7

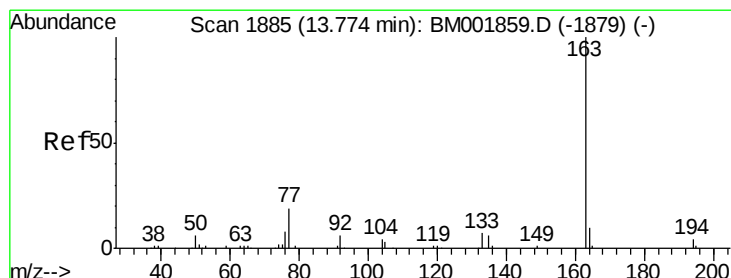
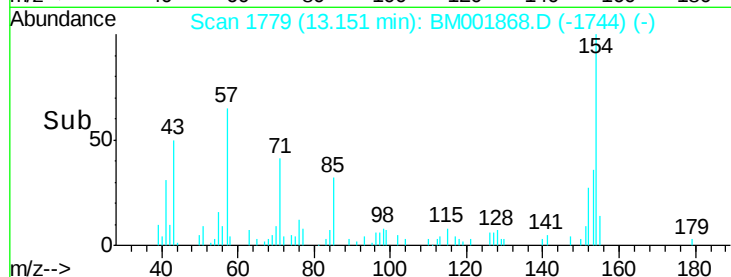
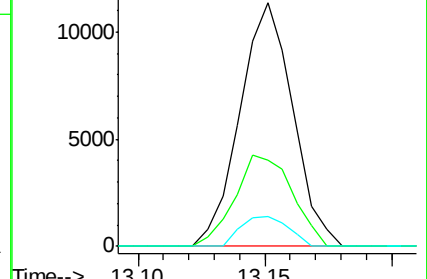
76 12.2 9.0 13.6



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



#44

Dimethylphthalate

Concen: 4.64 ng/ul

RT: 13.78 min Scan# 1886

Delta R.T. 0.01 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

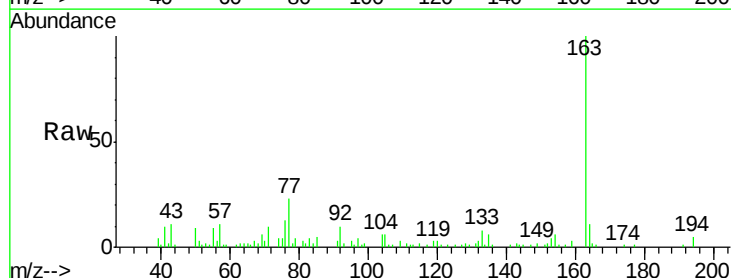
Tgt Ion:163 Resp: 54212

Ion Ratio Lower Upper

163 100

194 4.5 3.6 5.4

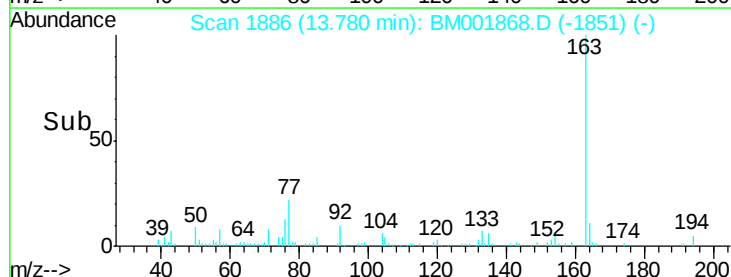
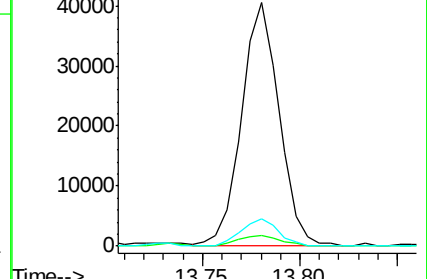
164 11.1 8.0 12.0

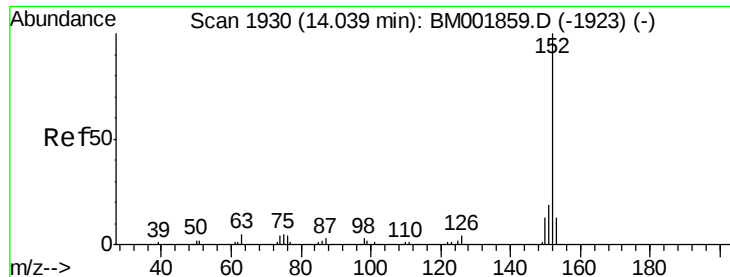


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#47

Acenaphthylene

Concen: 3.41 ng/ul

RT: 14.05 min Scan# 1931

Delta R.T. 0.01 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

Instrument :

BNA_M

ClientSampleId :

G93L5

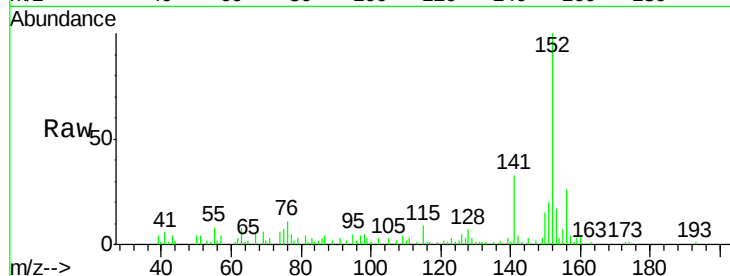
Tgt Ion:152 Resp: 48809

Ion Ratio Lower Upper

152 100

151 20.0 15.9 23.9

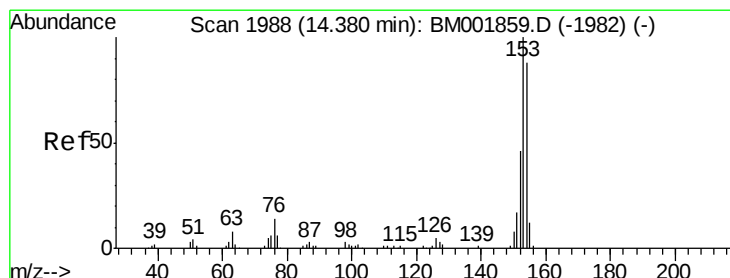
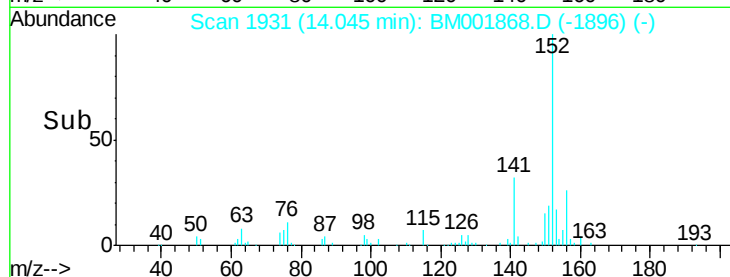
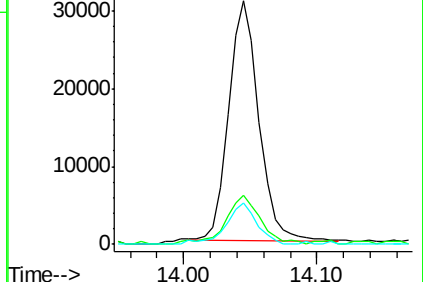
153 17.2 10.0 15.0#



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: 2.33 ng/ul

RT: 14.39 min Scan# 1989

Delta R.T. 0.01 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

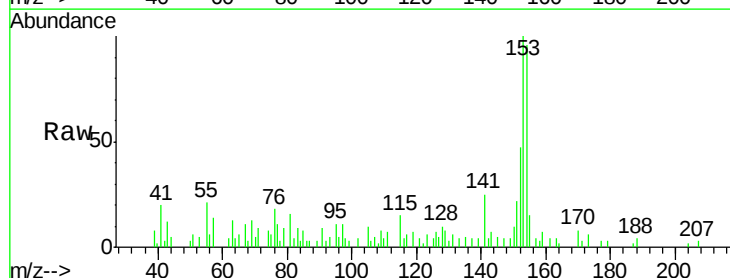
Tgt Ion:153 Resp: 22254

Ion Ratio Lower Upper

153 100

152 46.8 36.6 55.0

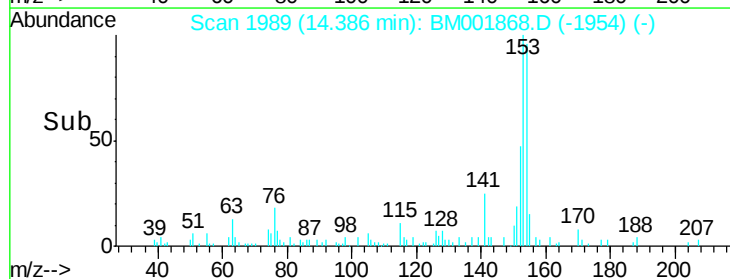
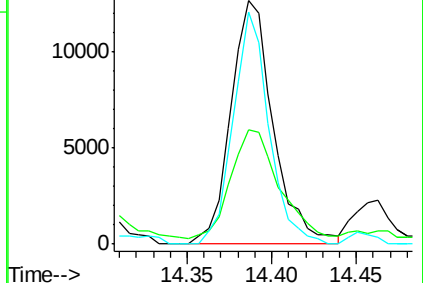
154 95.6 72.6 108.8

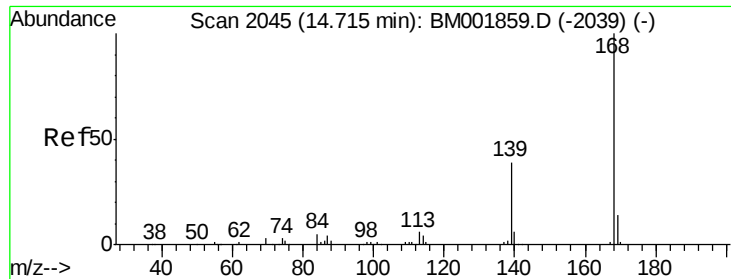


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzenofuran

Concen: 2.32 ng/ul

RT: 14.72 min Scan# 2046

Delta R.T. 0.01 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

Instrument :

BNA_M

ClientSampled :

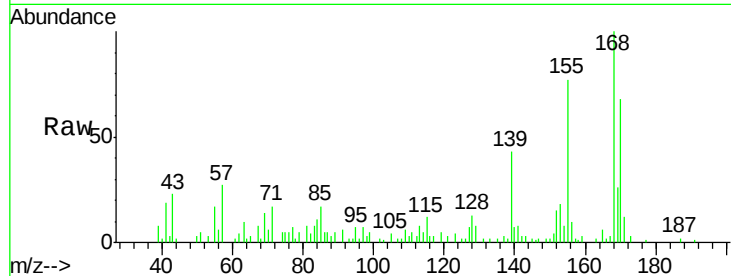
G93L5

Tgt Ion:168 Resp: 31752

Ion Ratio Lower Upper

168 100

139 42.8 30.1 45.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

25000

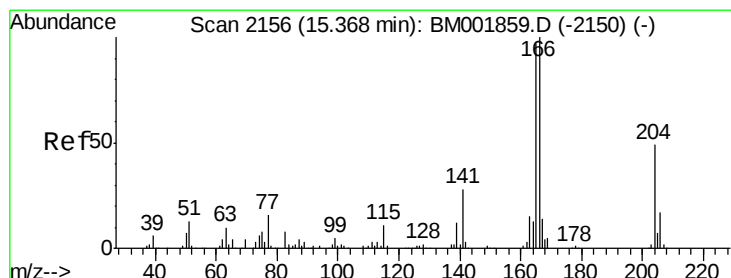
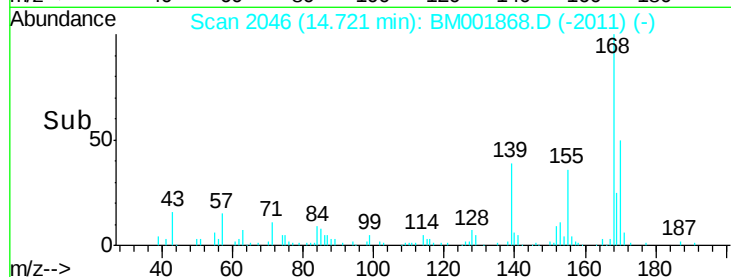
20000

15000

10000

5000

Time--> 14.65 14.70 14.75



#58

Fluorene

Concen: 2.09 ng/ul

RT: 15.37 min Scan# 2157

Delta R.T. 0.01 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

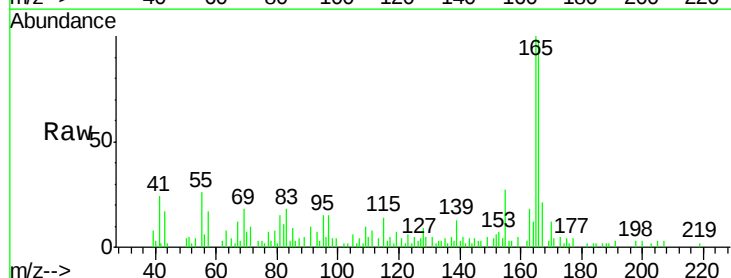
Tgt Ion:166 Resp: 23745

Ion Ratio Lower Upper

166 100

165 102.2 77.4 116.2

167 21.8 11.3 16.9#



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

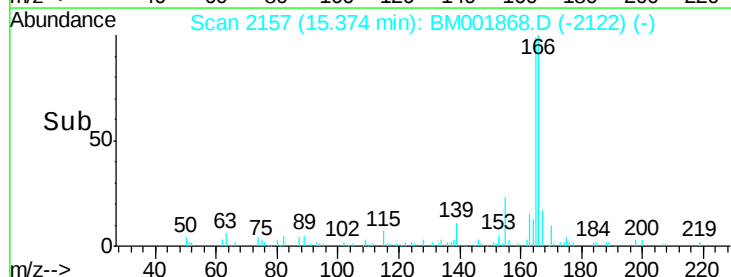
20000

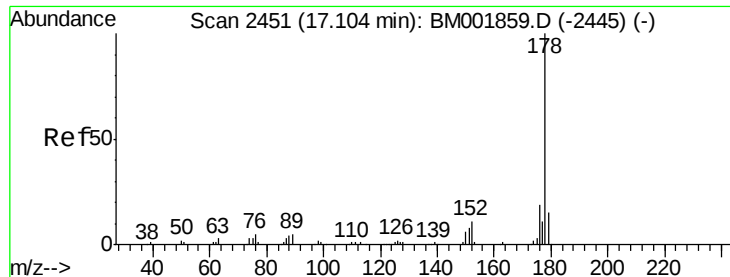
15000

10000

5000

Time--> 15.35 15.40





#69

Phenanthrene

Concen: 23.38 ng/ul

RT: 17.12 min Scan# 2453

Delta R.T. 0.01 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

Instrument :

BNA_M

ClientSampleId :

G93L5

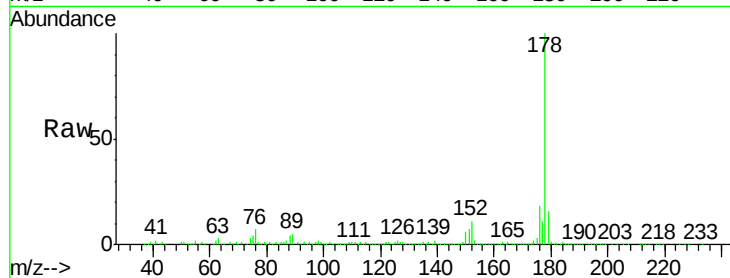
Tgt Ion:178 Resp: 406183

Ion Ratio Lower Upper

178 100

179 16.0 11.9 17.9

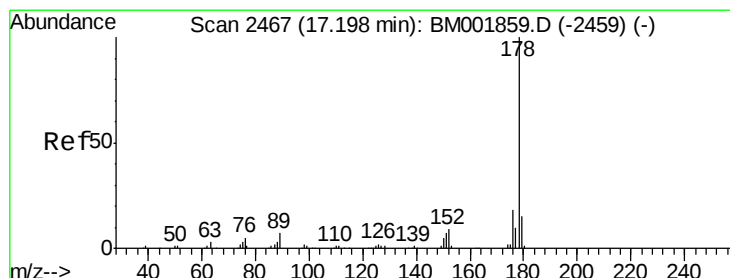
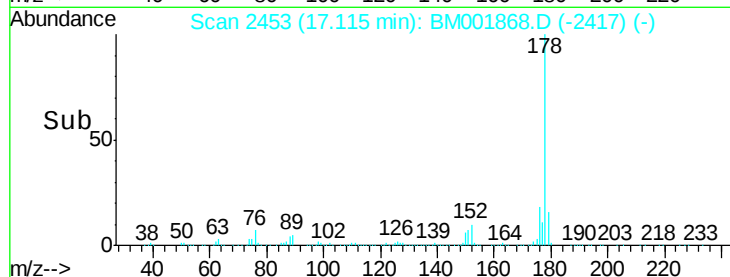
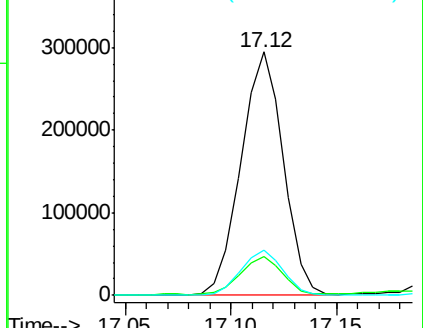
176 18.4 15.2 22.8



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: 5.92 ng/ul

RT: 17.20 min Scan# 2468

Delta R.T. 0.01 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

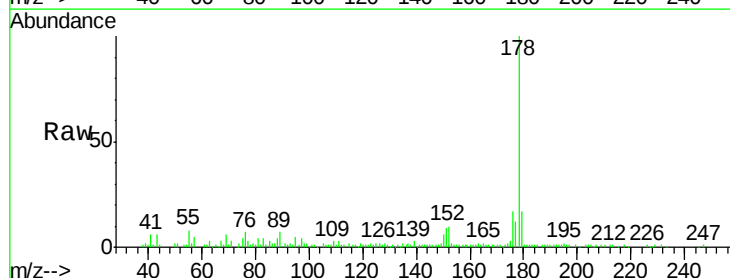
Tgt Ion:178 Resp: 105509

Ion Ratio Lower Upper

178 100

179 17.0 11.8 17.8

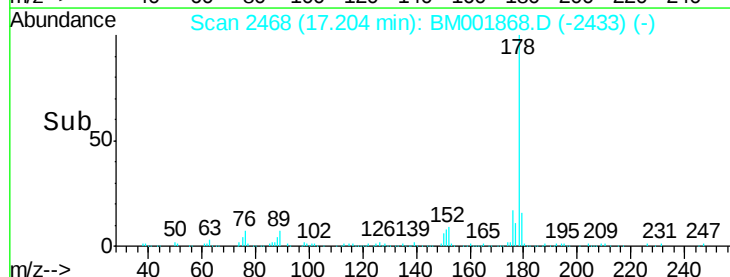
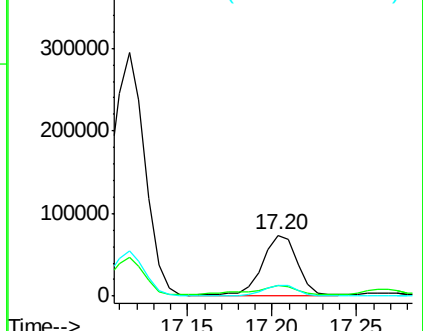
176 17.3 14.4 21.6

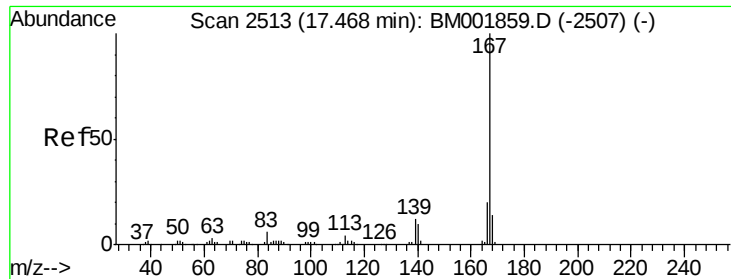


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

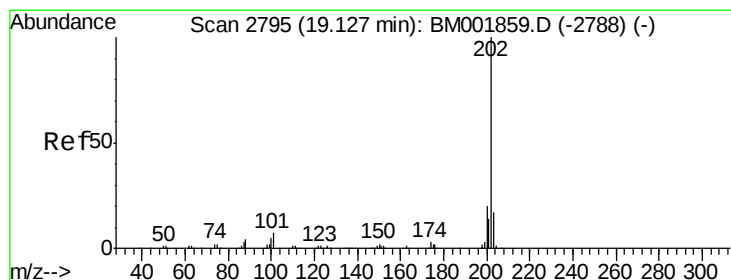
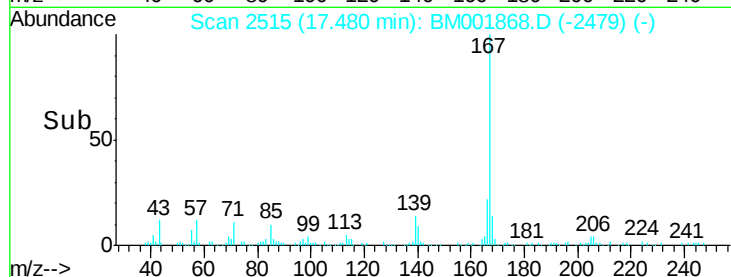
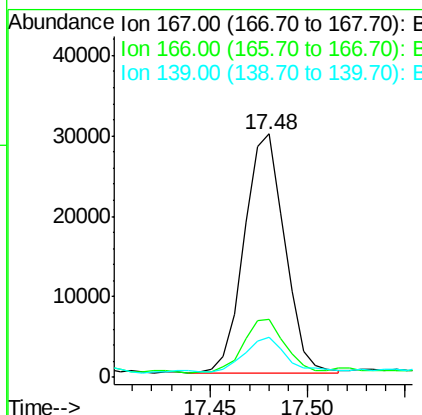
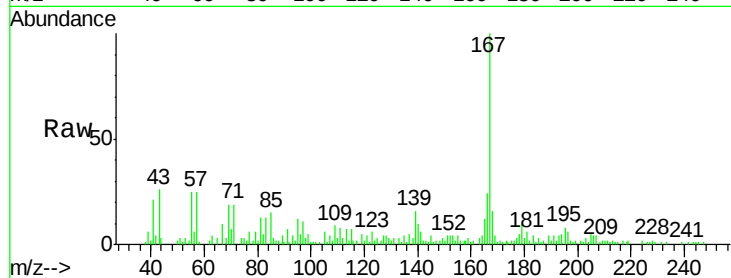




#74
 Carbazole
 Concen: 2.72 ng/ul
 RT: 17.48 min Scan# 2515
 Delta R.T. 0.01 min
 Lab File: BM001868.D
 Acq: 07 Jul 2015 15:14

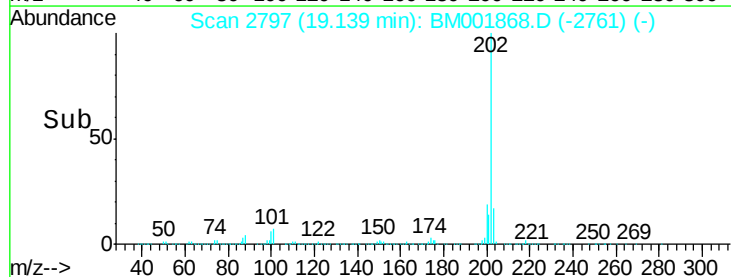
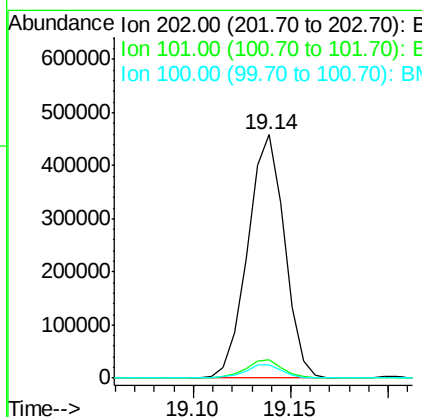
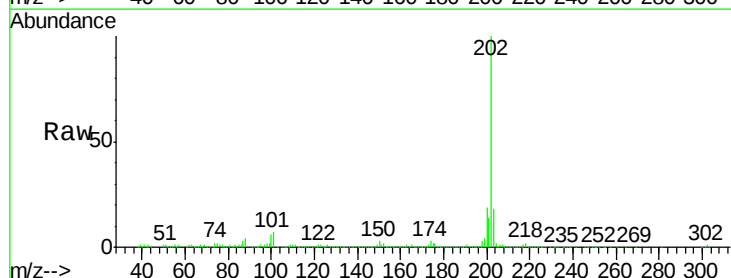
Instrument :
 BNA_M
 ClientSampled :
 G93L5

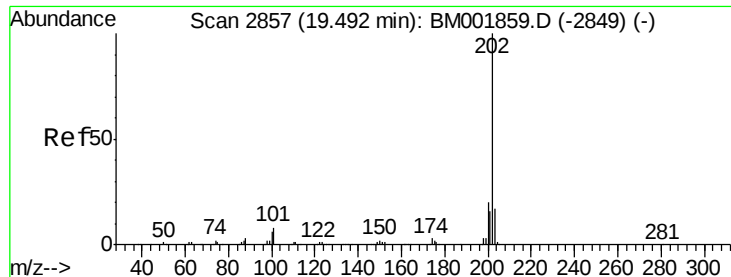
Tgt Ion:167 Resp: 42542
 Ion Ratio Lower Upper
 167 100
 166 24.1 17.4 26.2
 139 16.3 10.1 15.1#



#76
 Fluoranthene
 Concen: 28.64 ng/ul
 RT: 19.14 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: BM001868.D
 Acq: 07 Jul 2015 15:14

Tgt Ion:202 Resp: 595163
 Ion Ratio Lower Upper
 202 100
 101 7.4 6.1 9.1
 100 5.7 4.8 7.2

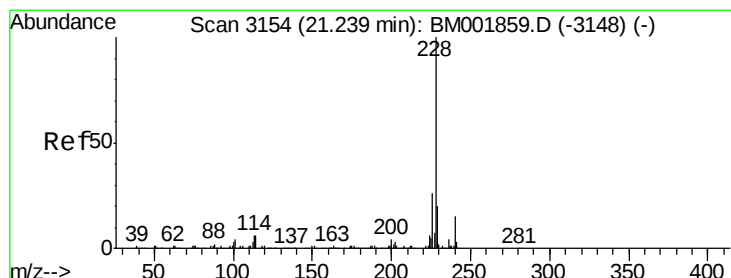
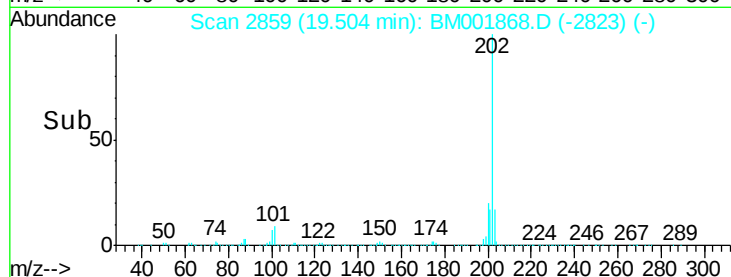
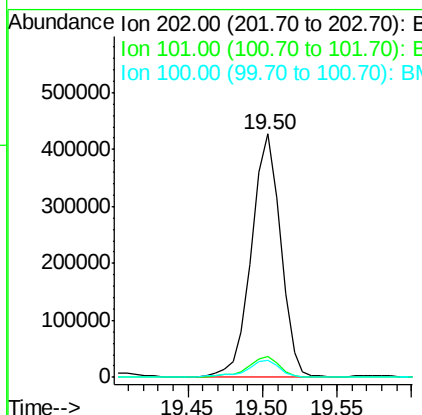
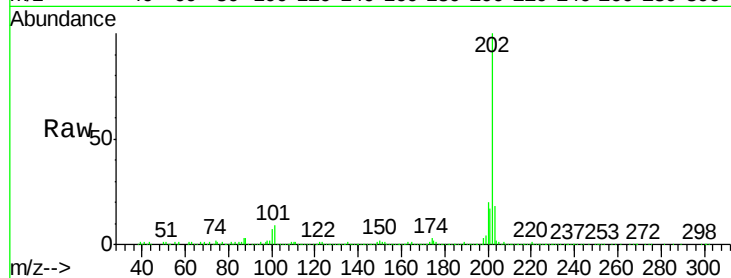




#79
 Pyrene
 Concen: 27.37 ng/ul
 RT: 19.50 min Scan# 2859
 Delta R.T. 0.01 min
 Lab File: BM001868.D
 Acq: 07 Jul 2015 15:14

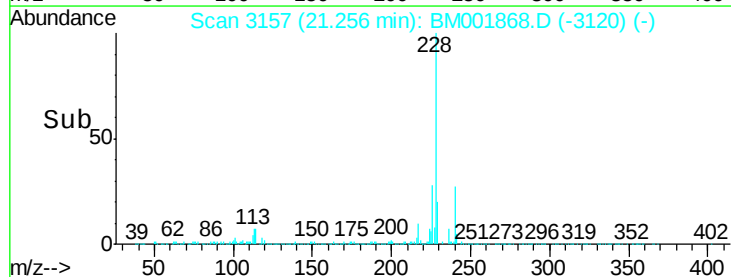
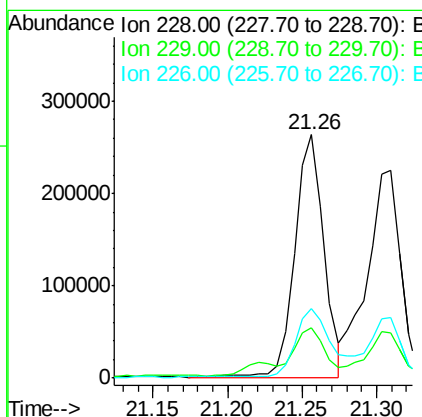
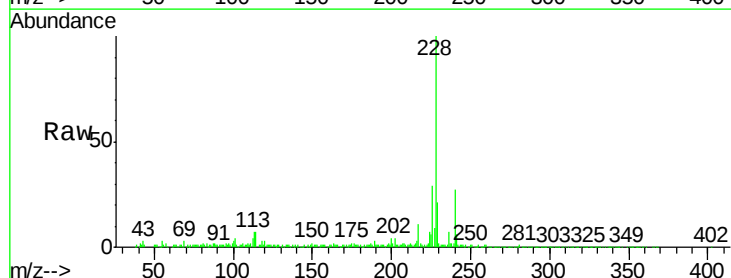
Instrument :
 BNA_M
 ClientSampled :
 G93L5

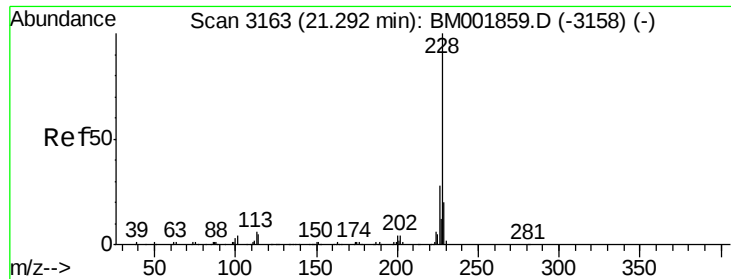
Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.6	6.9	10.3
100	7.1	6.2	9.2



#82
 Benzo(a)anthracene
 Concen: 16.06 ng/ul
 RT: 21.26 min Scan# 3157
 Delta R.T. 0.02 min
 Lab File: BM001868.D
 Acq: 07 Jul 2015 15:14

Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.7	15.4	23.0
226	28.7	20.6	30.8





#84

Chrysene

Concen: 16.49 ng/ul

RT: 21.31 min Scan# 3166

Delta R.T. 0.02 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

Instrument :

BNA_M

ClientSampleId :

G93L5

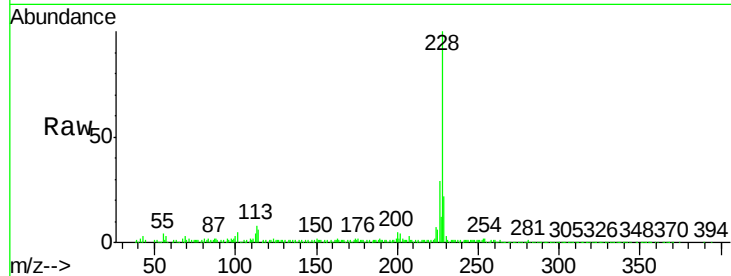
Tgt Ion:228 Resp: 346133

Ion Ratio Lower Upper

228 100

226 29.2 23.0 34.4

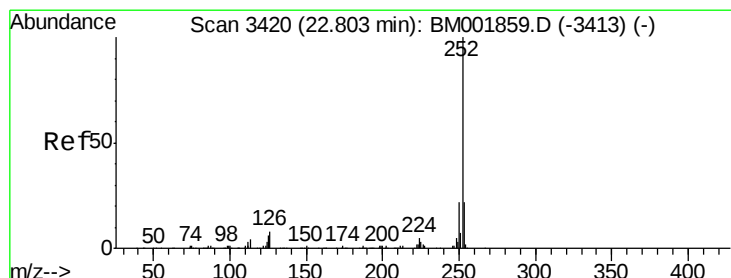
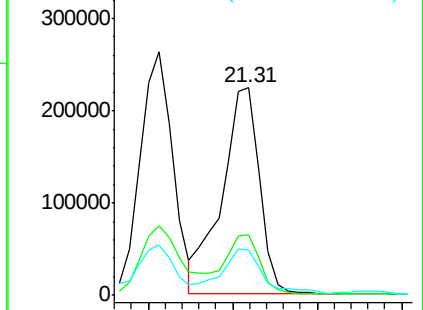
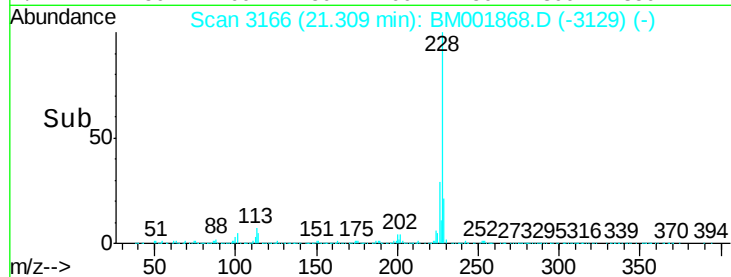
229 21.8 15.4 23.2



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: 25.44 ng/ul

RT: 22.84 min Scan# 3426

Delta R.T. 0.04 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

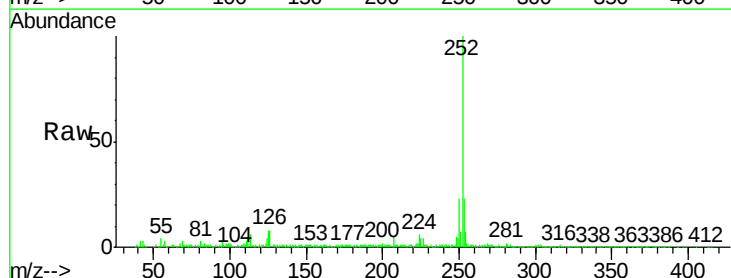
Tgt Ion:252 Resp: 580310

Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.6

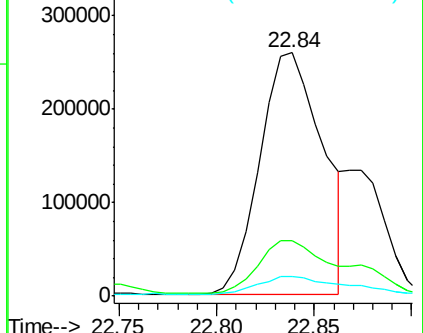
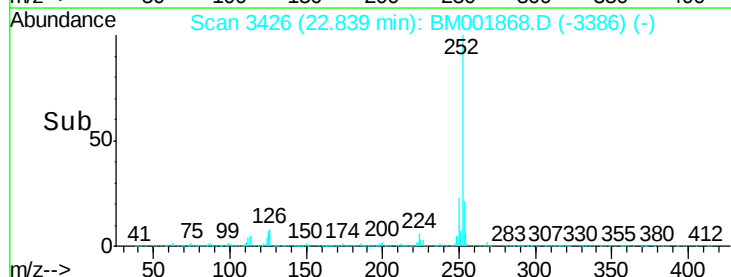
125 7.9 5.3 7.9

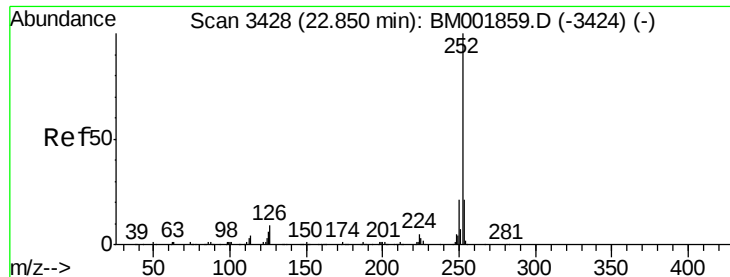


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

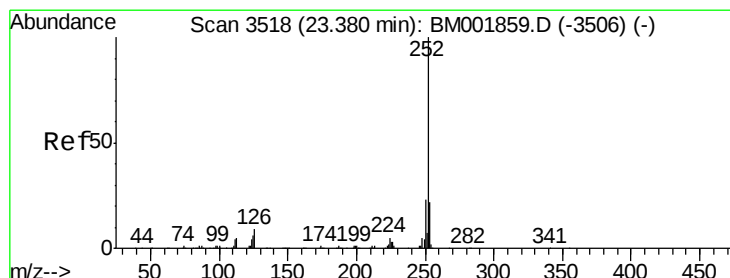
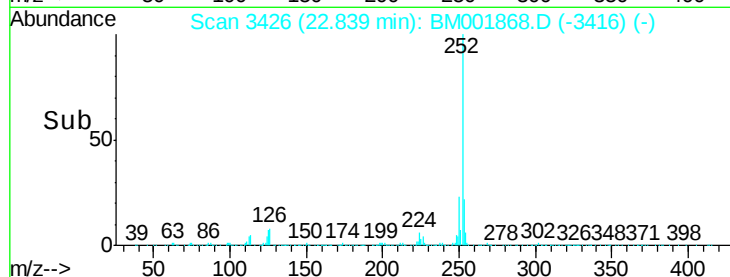
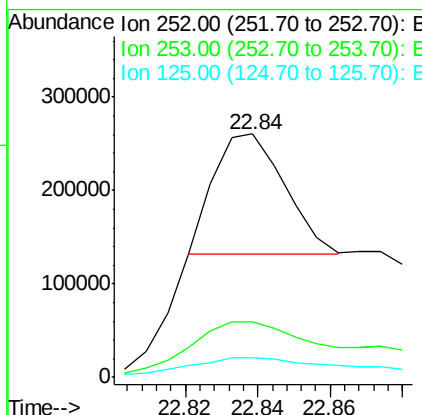
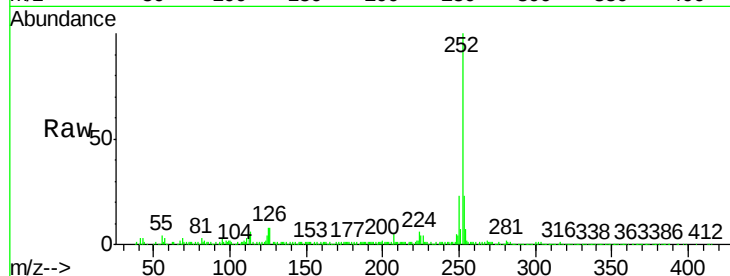




#88
Benzo(k)fluoranthene
Concen: 7.90 ng/ul
RT: 22.84 min Scan# 3426
Delta R.T. -0.01 min
Lab File: BM001868.D
Acq: 07 Jul 2015 15:14

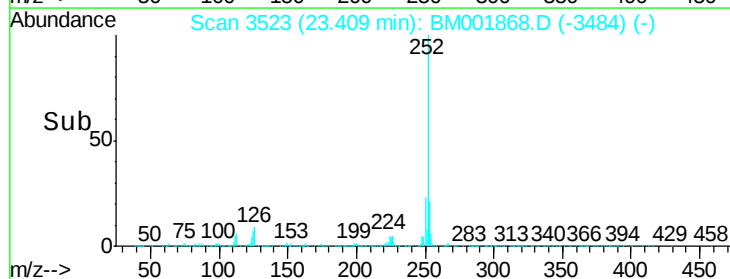
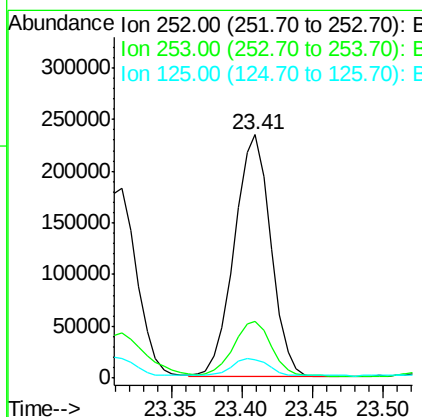
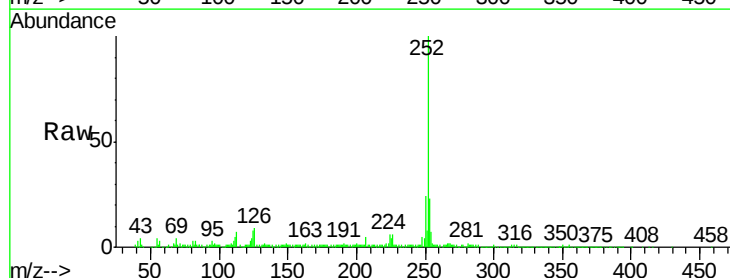
Instrument :
BNA_M
ClientSampleId :
G93L5

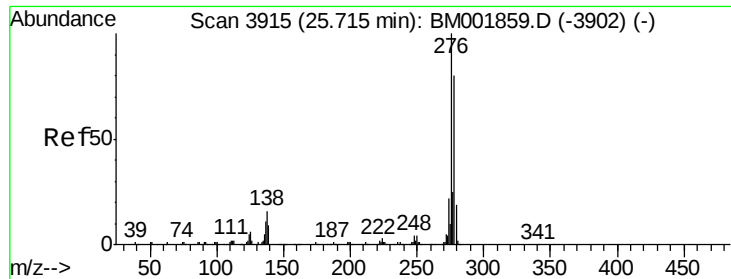
Tgt Ion:252 Resp: 174049
Ion Ratio Lower Upper
252 100
253 22.6 17.1 25.7
125 7.9 5.3 7.9



#90
Benzo(a)pyrene
Concen: 19.01 ng/ul
RT: 23.41 min Scan# 3523
Delta R.T. 0.03 min
Lab File: BM001868.D
Acq: 07 Jul 2015 15:14

Tgt Ion:252 Resp: 421756
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.0
125 7.7 6.0 9.0





#91

Indeno(1,2,3-cd)pyrene

Concen: 15.90 ng/ul

RT: 25.76 min Scan# 3922

Delta R.T. 0.04 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

Instrument :

BNA_M

ClientSampleId :

G93L5

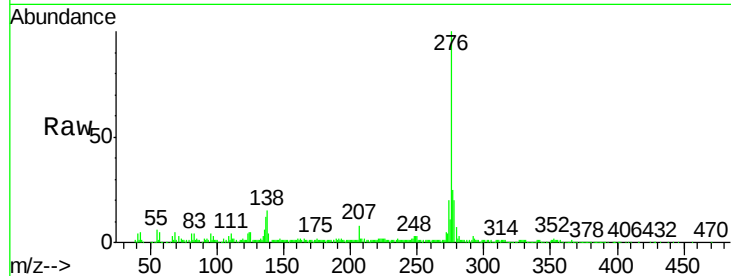
Tgt Ion:276 Resp: 418394

Ion Ratio Lower Upper

276 100

138 15.1 14.7 22.1

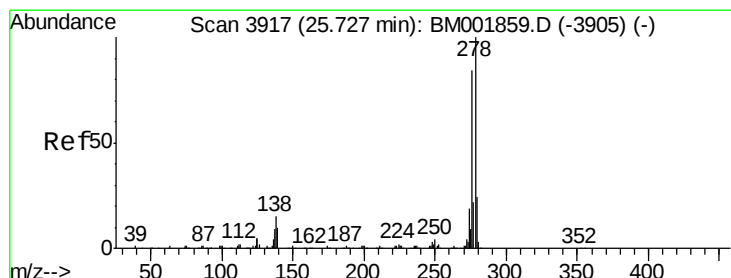
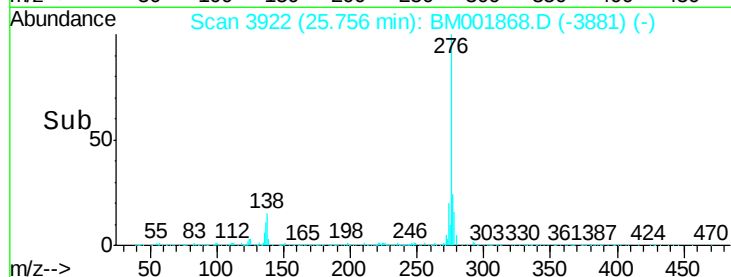
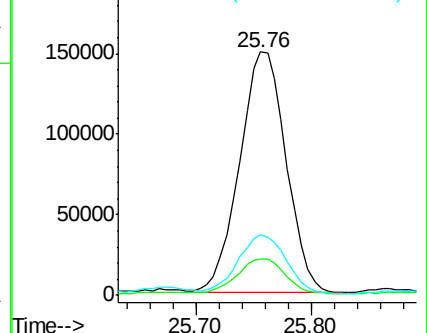
277 24.9 19.7 29.5



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: 4.69 ng/ul

RT: 25.77 min Scan# 3924

Delta R.T. 0.04 min

Lab File: BM001868.D

Acq: 07 Jul 2015 15:14

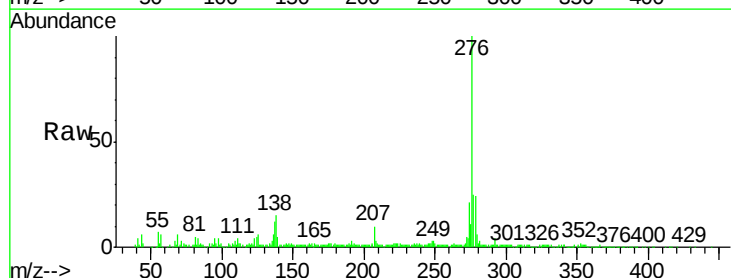
Tgt Ion:278 Resp: 104109

Ion Ratio Lower Upper

278 100

139 19.2 9.2 13.8#

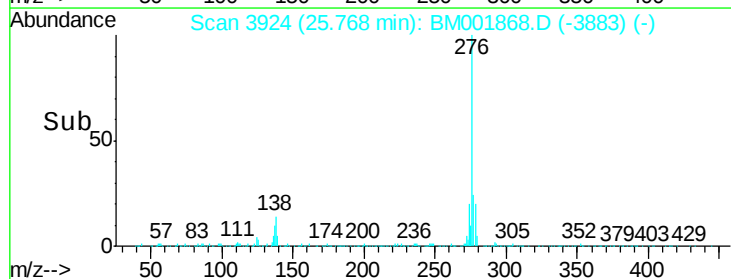
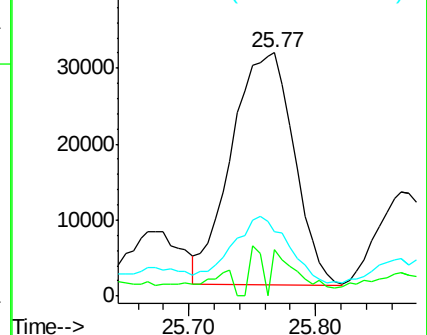
279 26.6 19.1 28.7

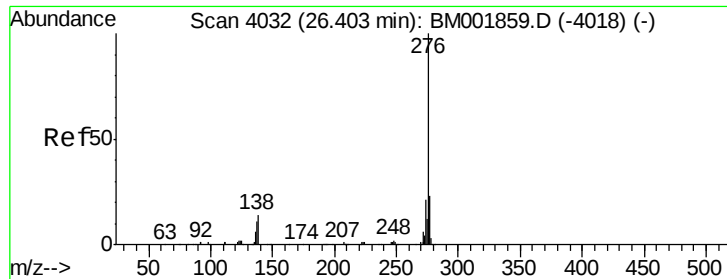


Abundance Ion 278.00 (277.70 to 278.70): E

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: 14.42 ng/ul

RT: 26.46 min Scan# 4041

Delta R.T. 0.05 min

Lab File: BM001868.D

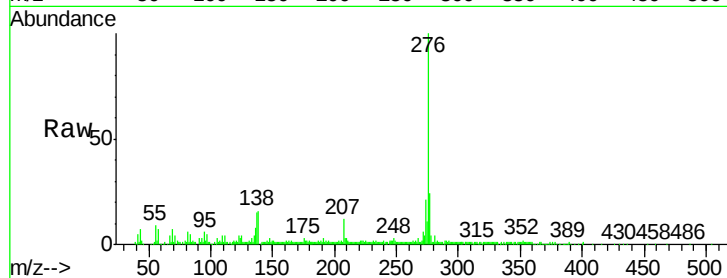
Acq: 07 Jul 2015 15:14

Instrument :

BNA_M

ClientSampleId :

G93L5



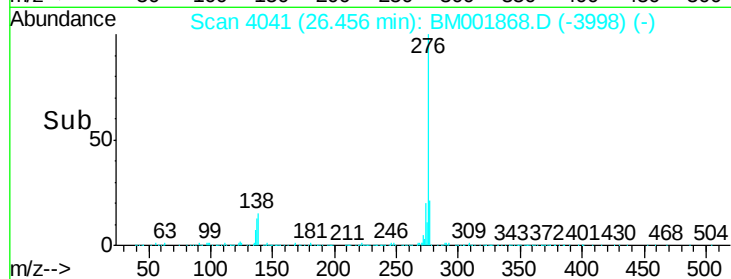
Tgt Ion: 276 Resp: 319144

Ion Ratio Lower Upper

276 100

138 16.0 12.6 19.0

277 23.9 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

