

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080515\
 Data File : BM002237.D
 Acq On : 05 Aug 2015 17:55
 Operator : TP/UM
 Sample : G3095-02RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Aug 06 01:46:32 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 06 01:44:45 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	31418	20.00	ng/ul	0.00
18) Naphthalene-d8	10.30	136	143386	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.19	164	92206	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.95	188	215695	20.00	ng/ul	0.00
78) Chrysene-d12	21.16	240	272698	20.00	ng/ul	0.00
86) Perylene-d12	23.36	264	236644	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.95	96	1222	2.21	ng/uL	0.00
5) Phenol-d5	6.73	99	33237	14.24	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.86	67	19738	16.18	ng/ul	0.00
9) 2-Chlorophenol-d4	7.06	132	33333	16.72	ng/ul	0.00
13) 4-Methylphenol-d8	8.26	113	30247	15.60	ng/ul	0.00
19) Nitrobenzene-d5	8.69	128	16442	15.82	ng/ul	0.00
22) 2-Nitrophenol-d4	9.40	143	18419	15.03	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.96	165	28897	12.32	ng/ul	0.00
29) 4-Chloroaniline-d4	10.47	131	20855	8.03	ng/ul	0.01
44) Dimethylphthalate-d6	13.60	166	119288	17.78	ng/ul	0.00
47) Acenaphthylene-d8	13.88	160	149785	17.67	ng/ul	0.00
52) 4-Nitrophenol-d4	14.45	143	56	0.06	ng/ul	-0.02
58) Fluorene-d10	15.19	176	109912	18.56	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.36	200	5545	4.46	ng/ul	0.00
71) Anthracene-d10	17.04	188	172588	17.98	ng/ul	0.00
79) Pyrene-d10	19.36	212	204878	15.69	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.22	264	205145	17.85	ng/ul	0.02

Target Compounds

					Ovalue
24) 2,4-Dimethylphenol	9.55	107	6825	2.72 ng/ul	92
28) Naphthalene	10.36	128	12029	1.77 ng/ul#	97
32) Caprolactam	11.32	113	1665	2.77 ng/ul#	16
34) 2-Methylnaphthalene	11.98	142	14816	2.84 ng/ul	97
35) 1-Methylnaphthalene	12.20	142	8585	1.72 ng/ul#	94
45) Dimethylphthalate	13.65	163	46431	6.94 ng/ul#	96
46) 2,6-Dinitrotoluene	13.78	165	1744	1.25 ng/ul#	3
48) Acenaphthylene	13.92	152	67700	7.83 ng/ul#	88
49) 3-Nitroaniline	14.14	138	1502	1.20 ng/ul#	32
50) Acenaphthene	14.26	153	21484	3.80 ng/ul	92
54) Dibenzofuran	14.60	168	19837	2.42 ng/ul	91
59) Fluorene	15.25	166	32251	4.79 ng/ul#	98
70) Phenanthrene	16.99	178	628938	56.79 ng/ul	100
72) Anthracene	17.08	178	138214	12.21 ng/ul	98
75) Carbazole	17.37	167	33959	3.60 ng/ul#	93
76) Di-n-butylphthalate	17.91	149	12476	1.12 ng/ul#	84
77) Fluoranthene	19.02	202	1147999	94.71 ng/ul	99
80) Pyrene	19.39	202	1276563	76.16 ng/ul	99
81) Butylbenzylphthalate	20.29	149	10361	1.71 ng/ul#	78
83) Benzo(a)anthracene	21.14	228	612104	40.07 ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.06	149	214845	24.99 ng/ul	100
85) Chrysene	21.20	228	597782	42.50 ng/ul	98
88) Benzo(b)fluoranthene	22.70	252	714048	53.55 ng/ul#	94

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Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 01:44:45 2015
Response via : Initial Calibration

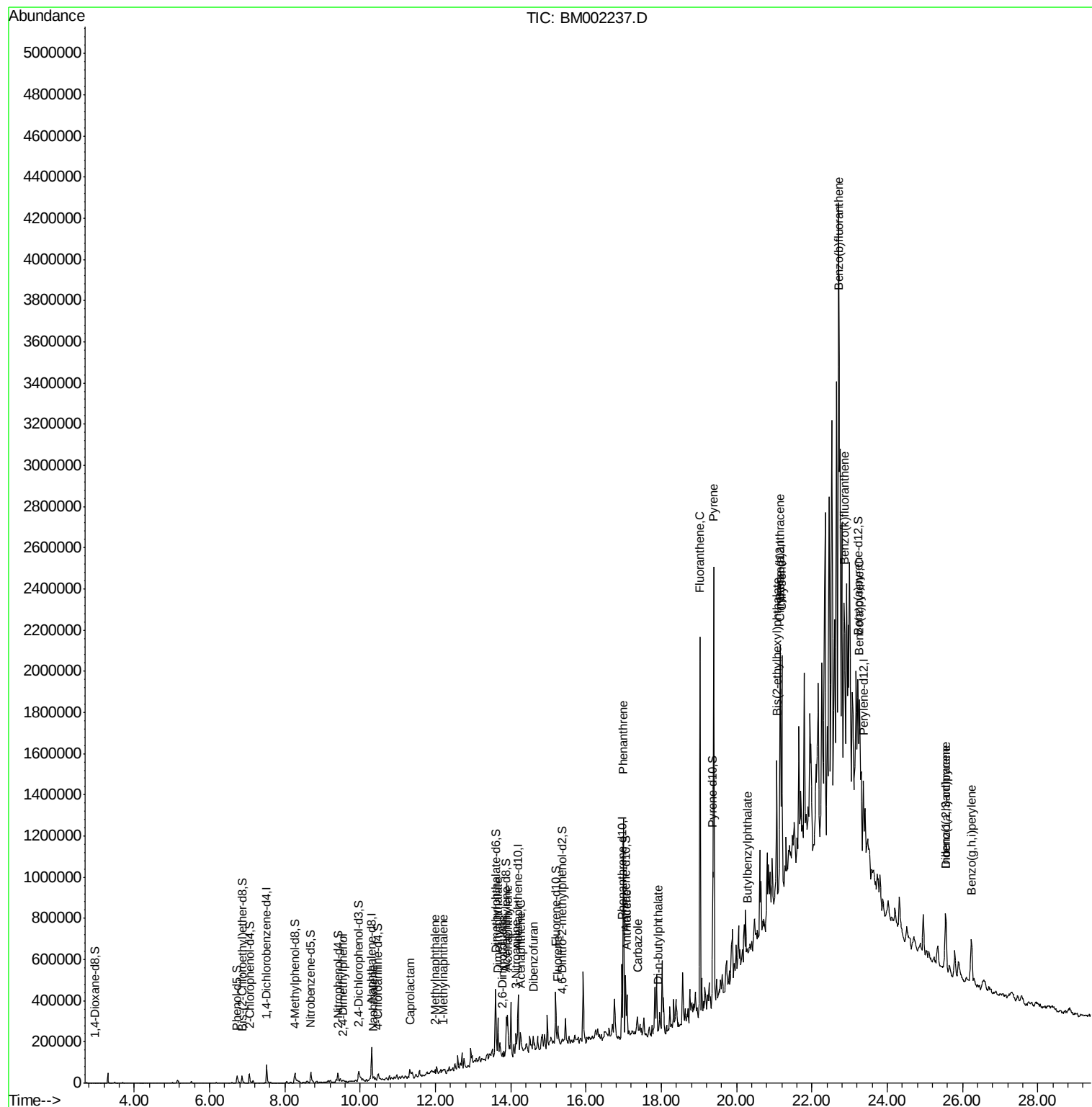
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo(k)fluoranthene	22.87	252	97372	7.54	ng/ul#	77
91) Benzo(a)pyrene	23.27	252	461868	36.27	ng/ul#	97
92) Indeno(1,2,3-cd)pyrene	25.55	276	261706	18.24	ng/ul	97
93) Dibenzo(a,h)anthracene	25.54	278	75656	6.18	ng/ul#	87
94) Benzo(g,h,i)perylene	26.23	276	243594	20.38	ng/ul	98

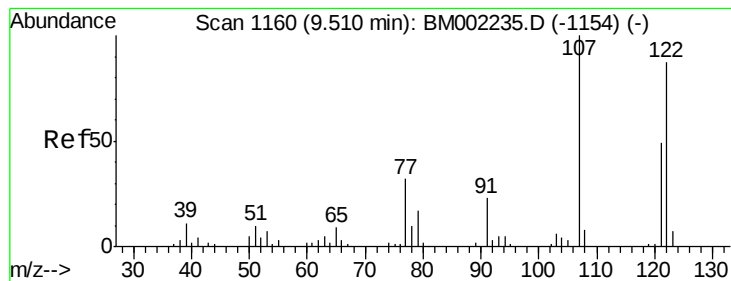
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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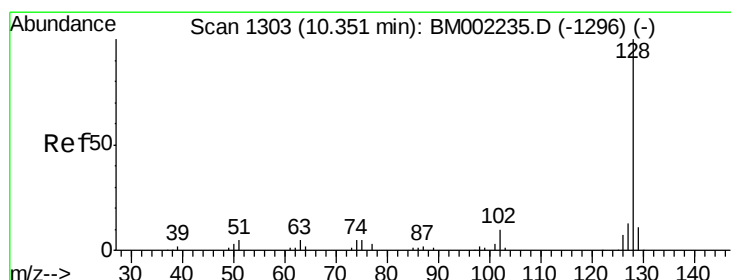
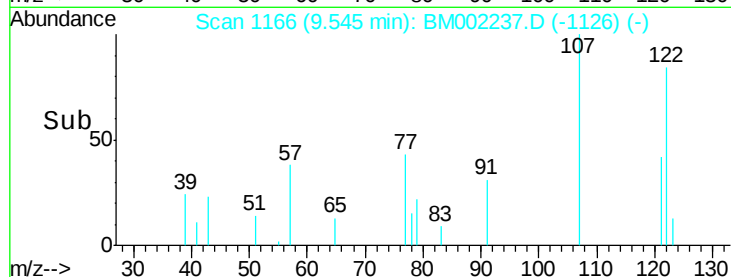
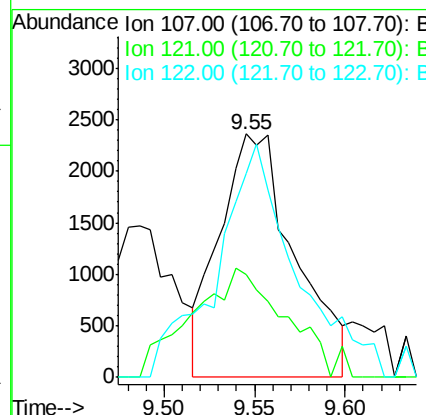
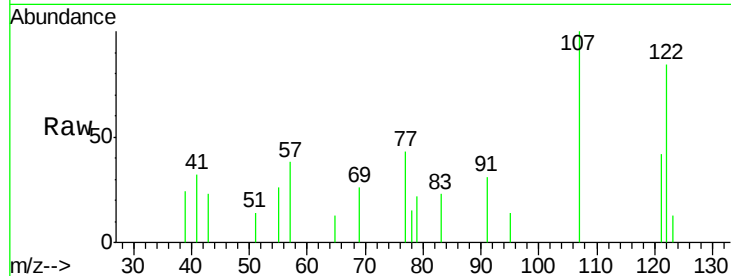




#24
 2,4-Dimethylphenol
 Concen: 2.72 ng/ul
 RT: 9.55 min Scan# 1166
 Delta R.T. 0.04 min
 Lab File: BM002237.D
 Acq: 05 Aug 2015 17:55

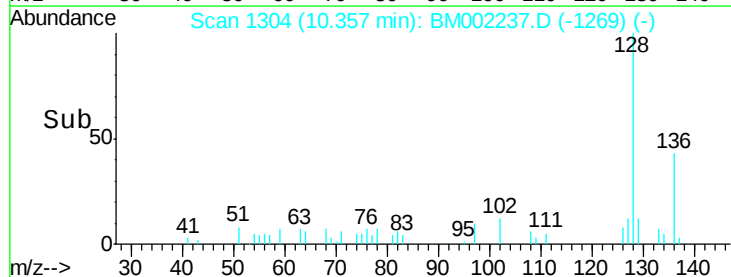
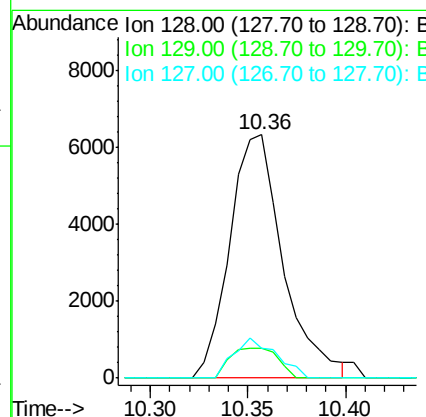
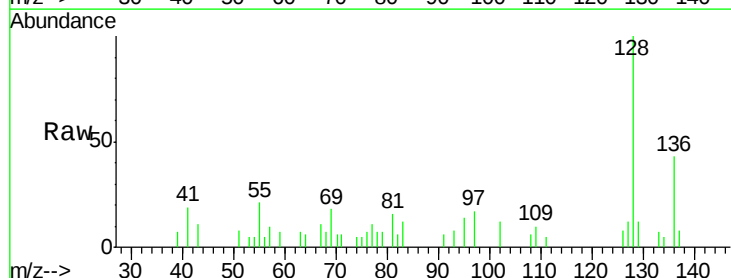
Instrument :
 BNA_M
 ClientSampled :

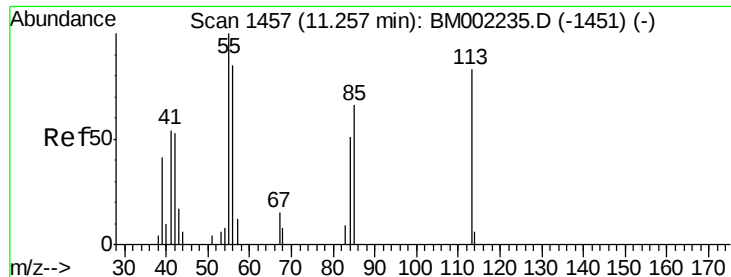
Tot Ion:107 Resp: 6825
 Ion Ratio Lower Upper
 107 100
 121 42.4 41.1 61.7
 122 83.7 70.8 106.2



#28
 Naphthalene
 Concen: 1.77 ng/ul
 RT: 10.36 min Scan# 1304
 Delta R.T. 0.01 min
 Lab File: BM002237.D
 Acq: 05 Aug 2015 17:55

Tgt Ion:128 Resp: 12029
 Ion Ratio Lower Upper
 128 100
 129 12.4 8.2 12.2#
 127 12.2 10.1 15.1





#32

Caprolactam

Concen: 2.77 ng/ul

RT: 11.32 min Scan# 1467

Delta R.T. 0.06 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

Instrument :

BNA_M

ClientSampled :

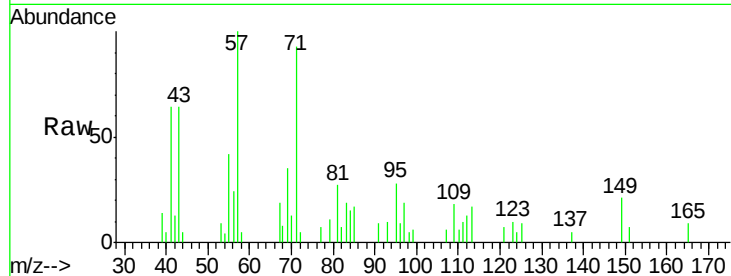
Tot Ion:113 Resp: 1665

Ion Ratio Lower Upper

113 100

55 248.3 94.5 141.7#

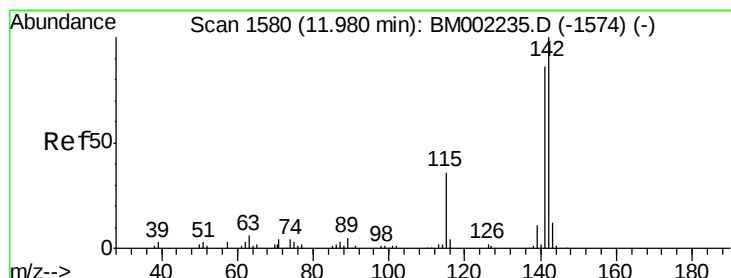
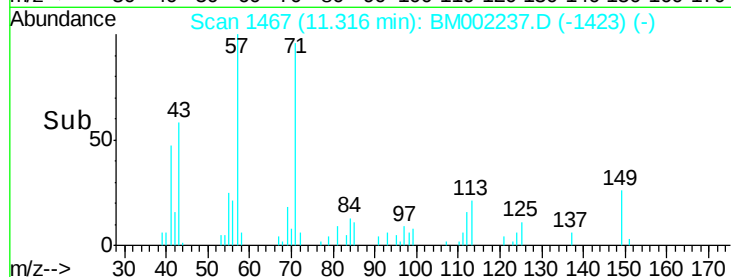
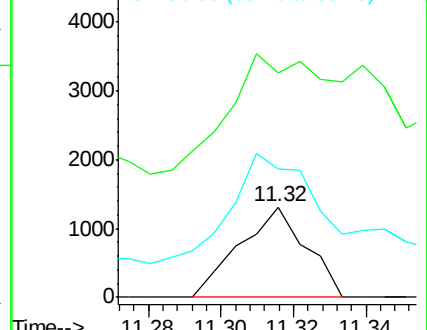
56 141.9 79.5 119.3#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BM0

Ion 56.00 (55.70 to 56.70): BM0



#34

2-Methylnaphthalene

Concen: 2.84 ng/ul

RT: 11.98 min Scan# 1580

Delta R.T. 0.00 min

Lab File: BM002237.D

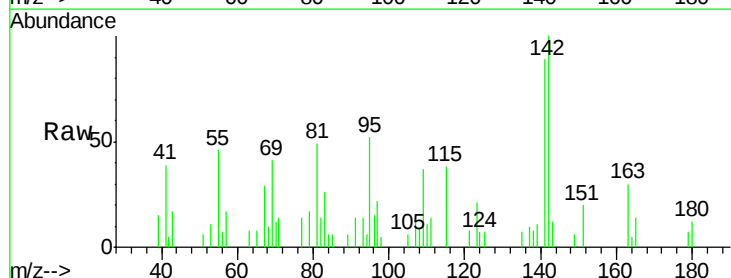
Acq: 05 Aug 2015 17:55

Tgt Ion:142 Resp: 14816

Ion Ratio Lower Upper

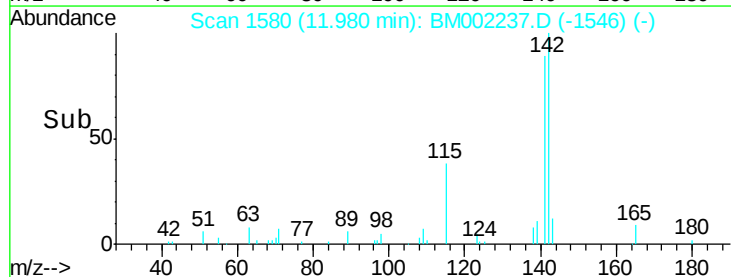
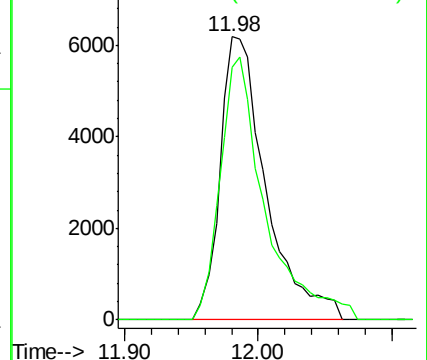
142 100

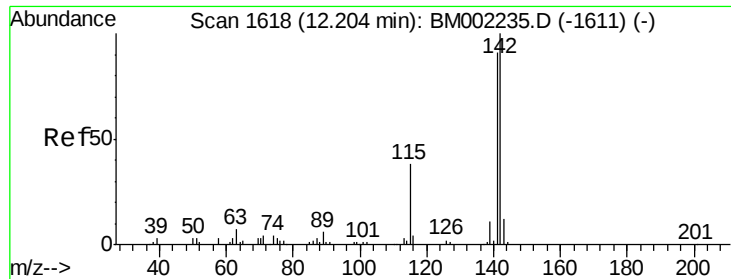
141 89.3 68.9 103.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

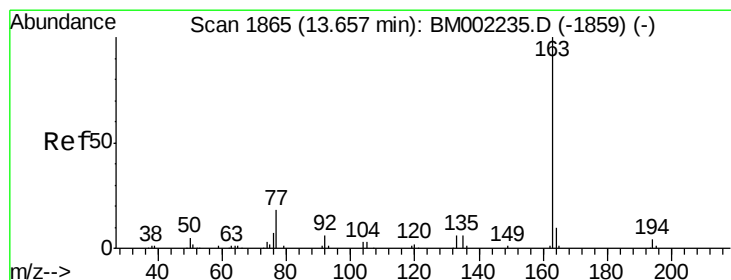
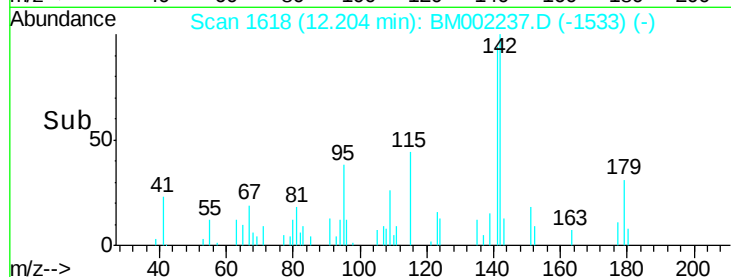
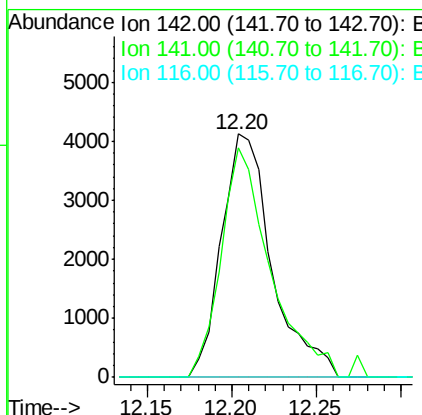
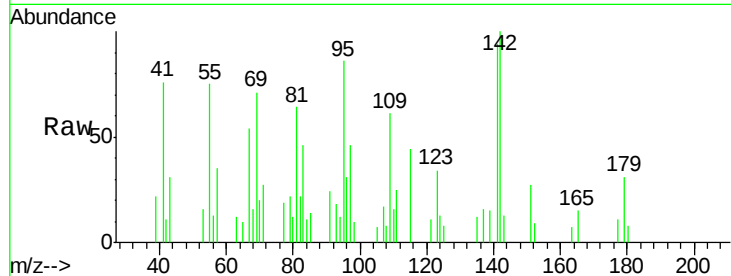




#35
1-Methyl-naphthalene
Concen: 1.72 ng/ul
RT: 12.20 min Scan# 1618
Delta R.T. 0.00 min
Lab File: BM002237.D
Acq: 05 Aug 2015 17:55

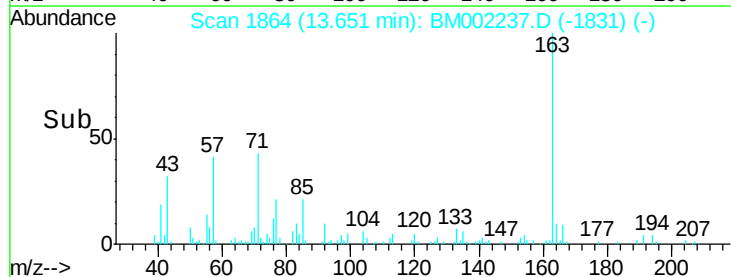
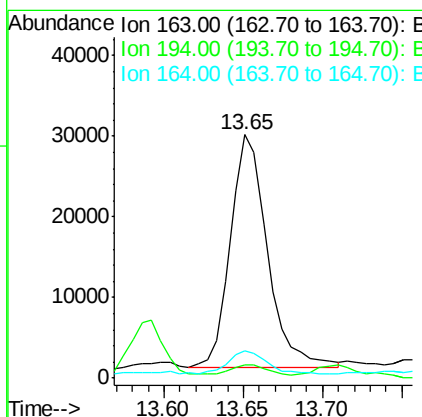
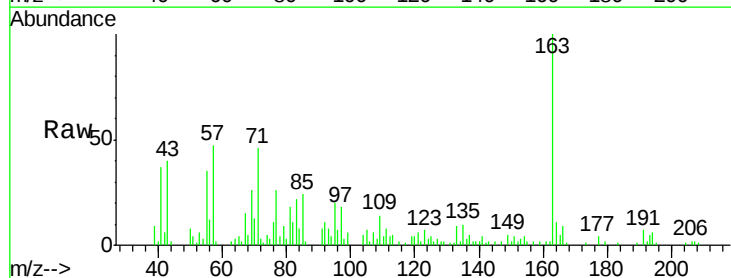
Instrument :
BNA_M
ClientSampleId :

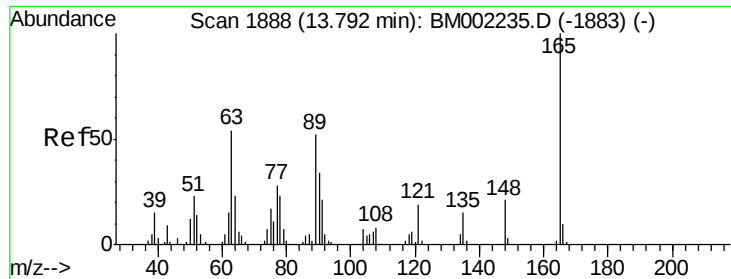
Tot Ion:142 Resp: 8585
Ion Ratio Lower Upper
142 100
141 94.5 71.0 106.4
116 0.0 3.3 4.9#



#45
Dimethylphthalate
Concen: 6.94 ng/ul
RT: 13.65 min Scan# 1864
Delta R.T. -0.01 min
Lab File: BM002237.D
Acq: 05 Aug 2015 17:55

Tgt Ion:163 Resp: 46431
Ion Ratio Lower Upper
163 100
194 5.6 3.4 5.2#
164 11.3 7.9 11.9

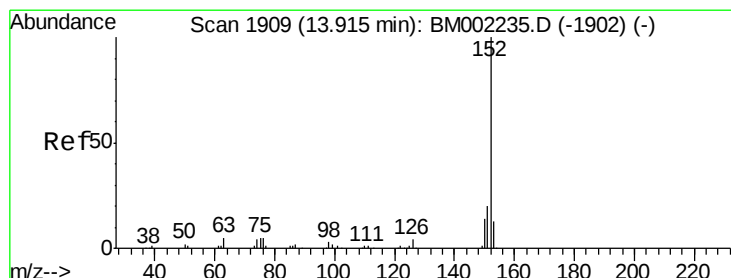
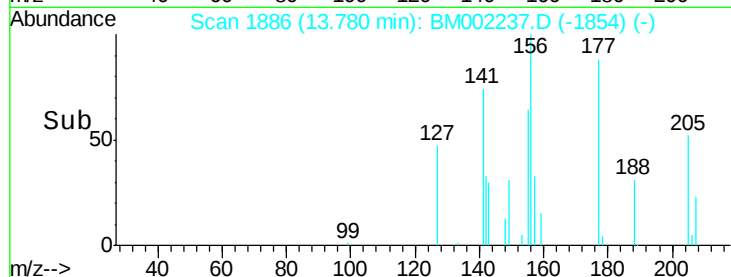
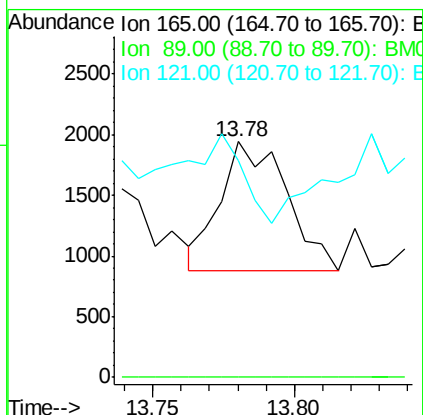
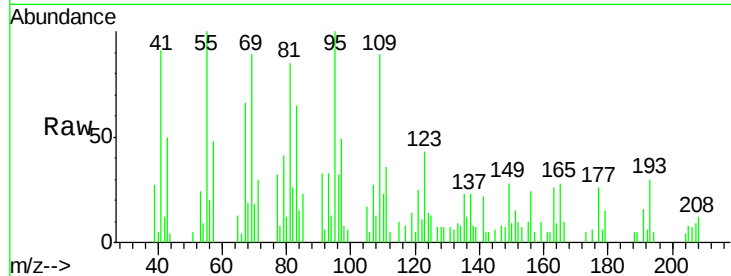




#46
 2,6-Dinitrotoluene
 Concen: 1.25 ng/ul
 RT: 13.78 min Scan# 1886
 Delta R.T. -0.01 min
 Lab File: BM002237.D
 Acq: 05 Aug 2015 17:55

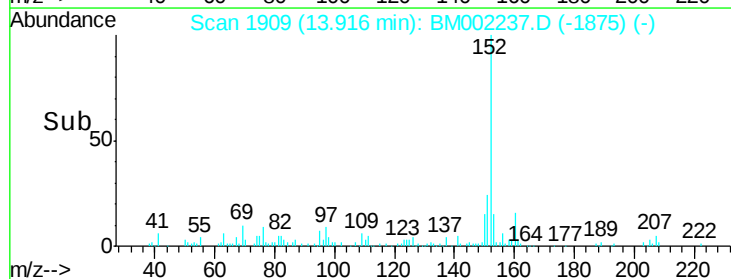
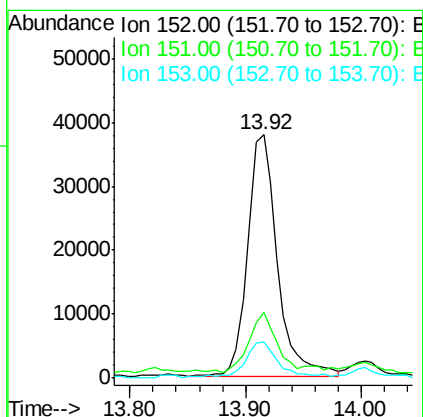
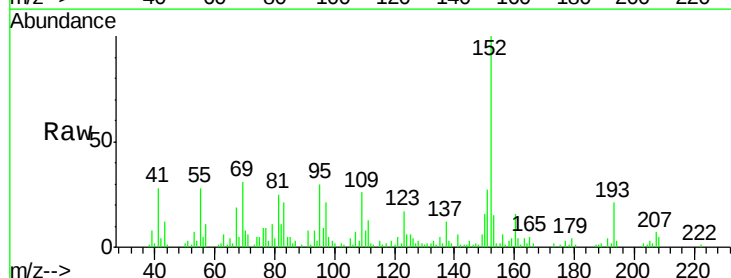
Instrument :
 BNA_M
 ClientSampleId :

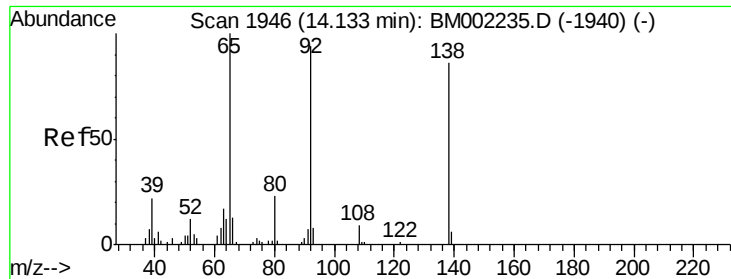
Tot Ion:165 Resp: 1744
 Ion Ratio Lower Upper
 165 100
 89 0.0 42.7 64.1#
 121 92.0 15.9 23.9#



#48
 Acenaphthylene
 Concen: 7.83 ng/ul
 RT: 13.92 min Scan# 1909
 Delta R.T. 0.00 min
 Lab File: BM002237.D
 Acq: 05 Aug 2015 17:55

Tgt Ion:152 Resp: 67700
 Ion Ratio Lower Upper
 152 100
 151 26.8 15.2 22.8#
 153 14.8 10.3 15.5





#49

3-Nitroaniline

Concen: 1.20 ng/ul

RT: 14.14 min Scan# 1947

Delta R.T. 0.01 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

Instrument :

BNA_M

ClientSampleId :

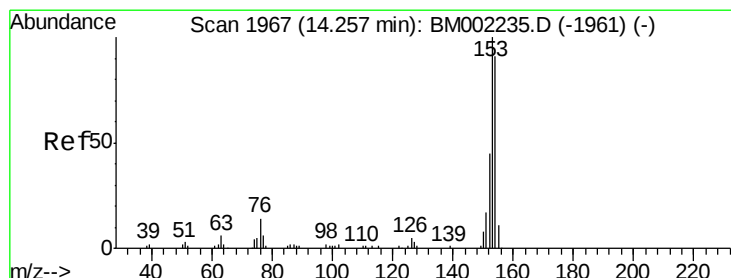
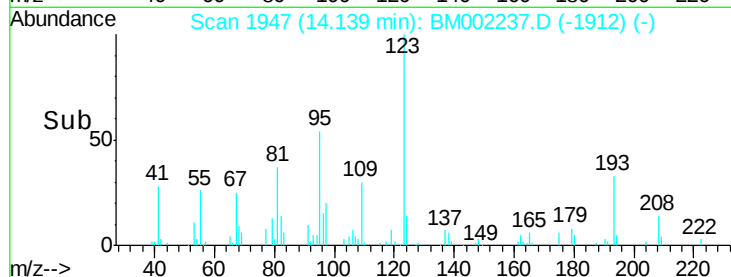
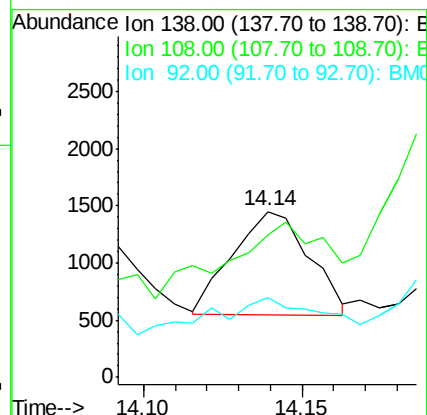
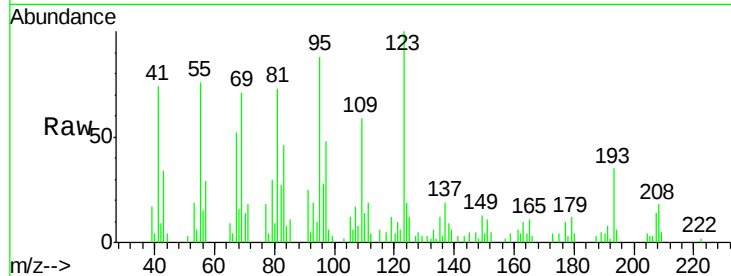
Tot Ion:138 Resp: 1502

Ion Ratio Lower Upper

138 100

108 85.7 8.1 12.1#

92 48.2 83.1 124.7#



#50

Acenaphthene

Concen: 3.80 ng/ul

RT: 14.26 min Scan# 1967

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

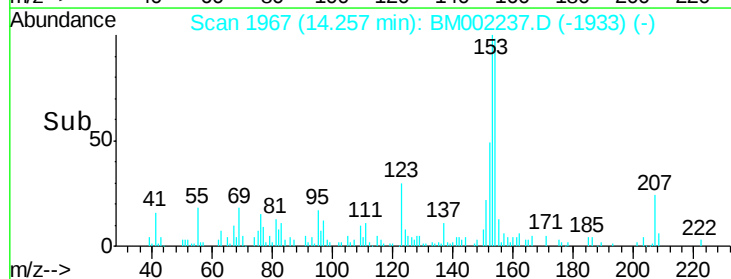
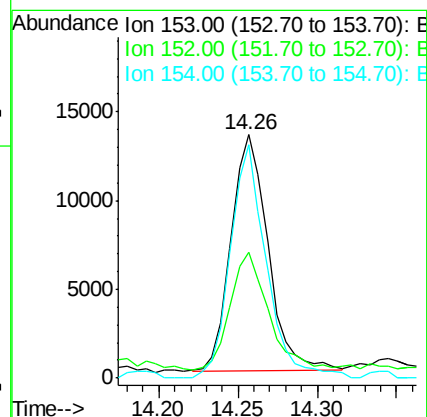
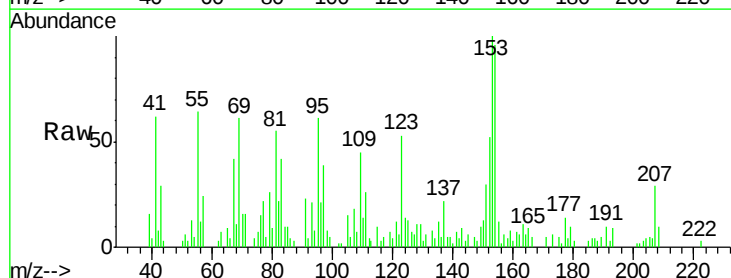
Tgt Ion:153 Resp: 21484

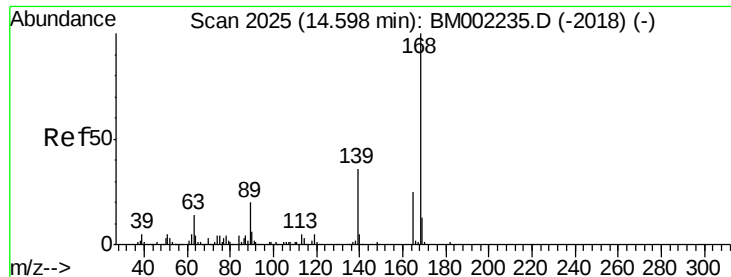
Ion Ratio Lower Upper

153 100

152 51.8 36.6 54.8

154 96.0 71.7 107.5





#54

Dibenzenofuran

Concen: 2.42 ng/ul

RT: 14.60 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

Instrument :

BNA_M

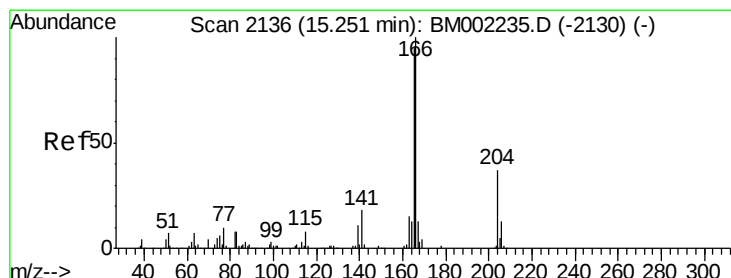
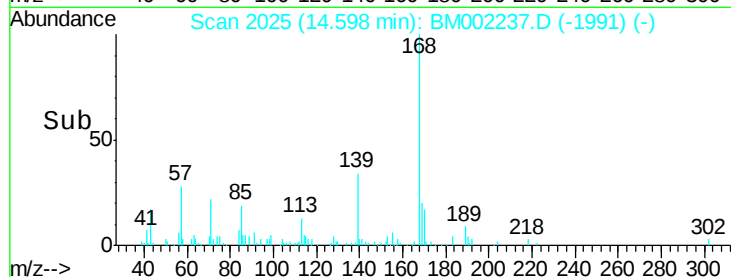
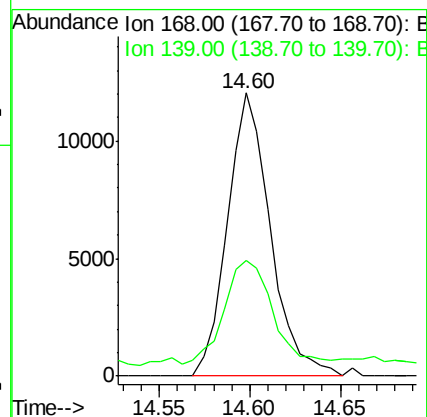
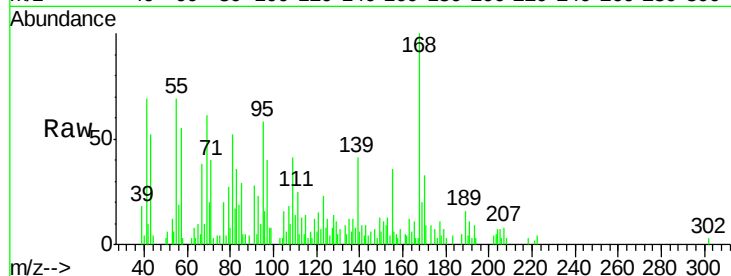
ClientSampleId :

Tot Ion:168 Resp: 19837

Ion Ratio Lower Upper

168 100

139 40.8 28.6 42.8



#59

Fluorene

Concen: 4.79 ng/ul

RT: 15.25 min Scan# 2136

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

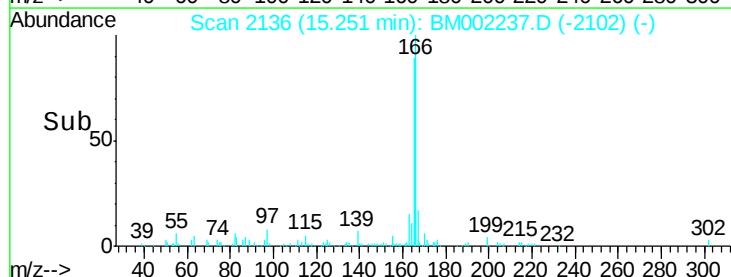
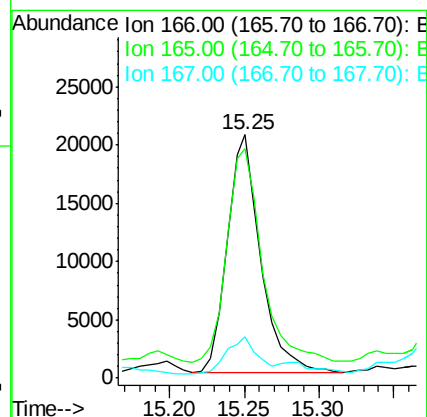
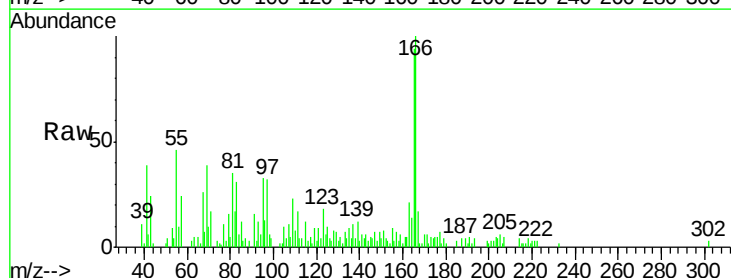
Tgt Ion:166 Resp: 32251

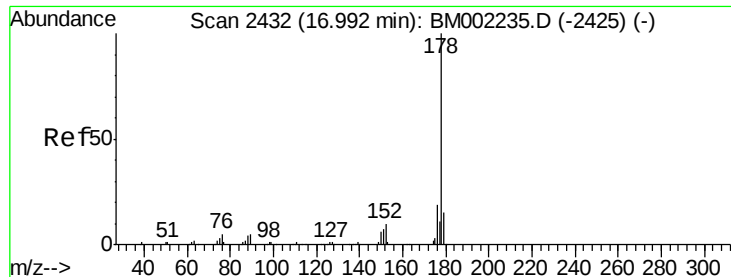
Ion Ratio Lower Upper

166 100

165 94.3 76.0 114.0

167 17.0 10.5 15.7#





#70

Phenanthrene

Concen: 56.79 ng/ul

RT: 16.99 min Scan# 2432

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

Instrument :

BNA_M

ClientSampleId :

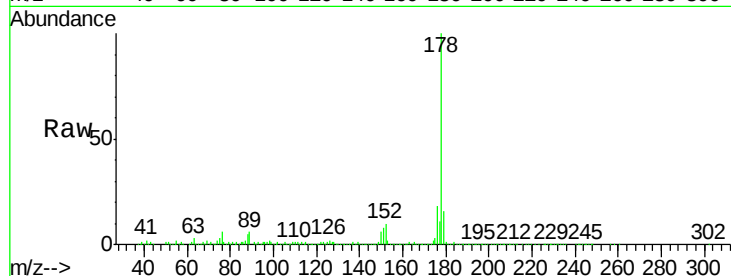
Tot Ion:178 Resp: 628938

Ion Ratio Lower Upper

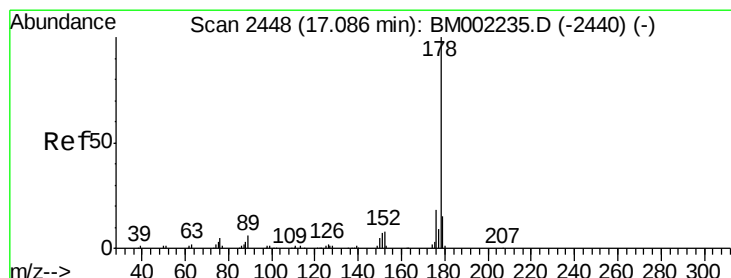
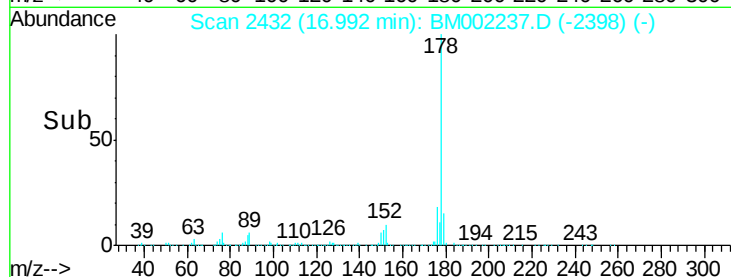
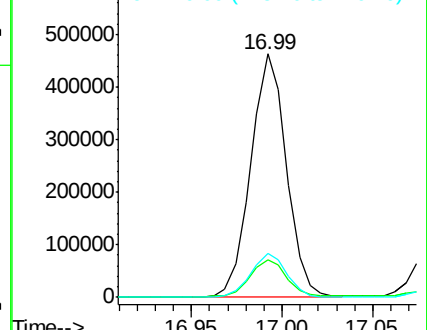
178 100

179 15.5 12.2 18.4

176 18.2 14.6 21.8



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: 12.21 ng/ul

RT: 17.08 min Scan# 2447

Delta R.T. -0.01 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

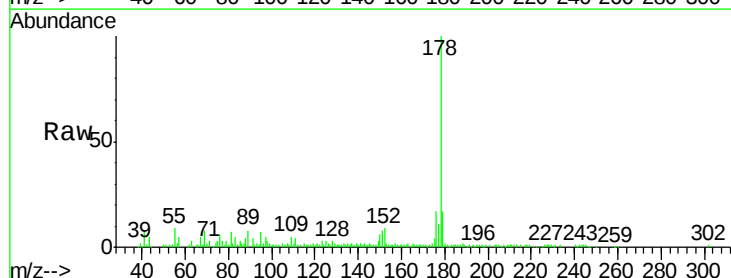
Tgt Ion:178 Resp: 138214

Ion Ratio Lower Upper

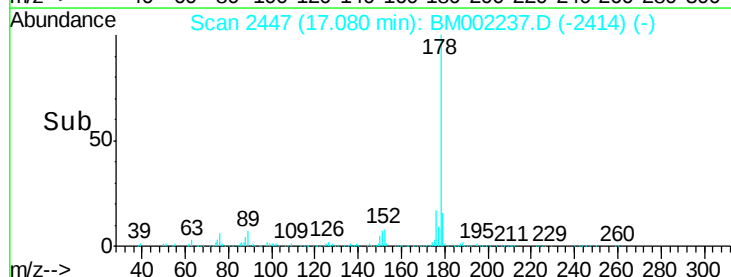
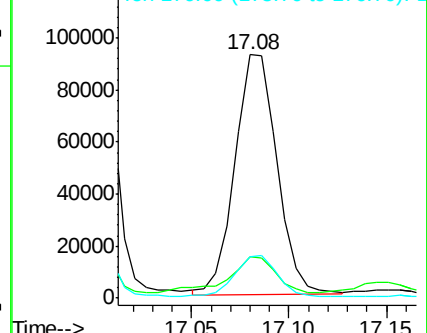
178 100

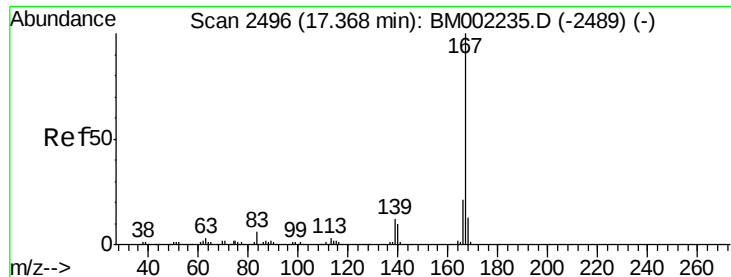
179 16.8 12.2 18.2

176 17.2 13.8 20.6



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





#75

Carbazole

Concen: 3.60 ng/ul

RT: 17.37 min Scan# 2496

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

Instrument :

BNA_M

ClientSampleId :

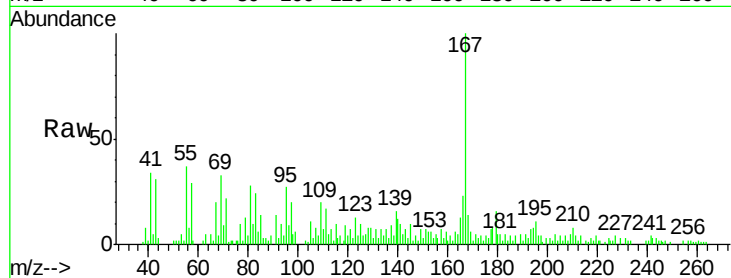
Tot Ion:167 Resp: 33959

Ion Ratio Lower Upper

167 100

166 23.0 16.7 25.1

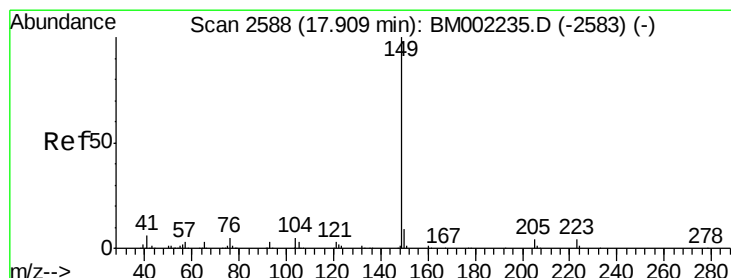
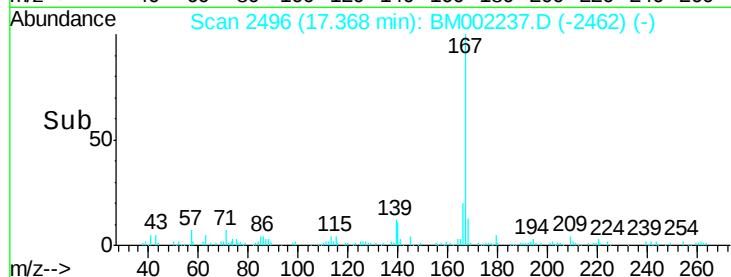
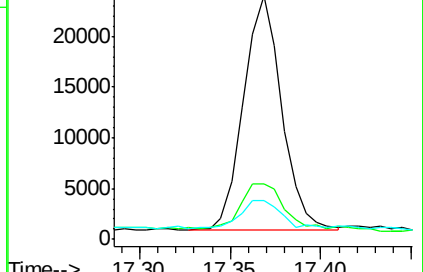
139 15.9 9.4 14.2#



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: 1.12 ng/ul

RT: 17.91 min Scan# 2588

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

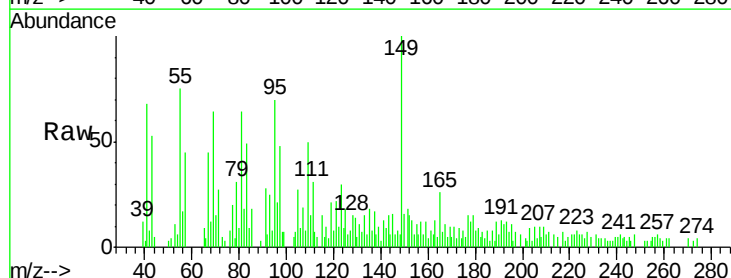
Tgt Ion:149 Resp: 12476

Ion Ratio Lower Upper

149 100

150 16.5 7.0 10.4#

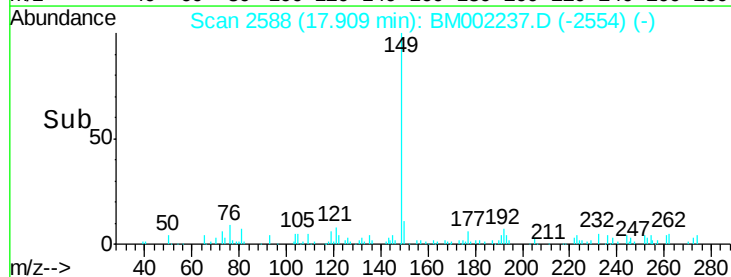
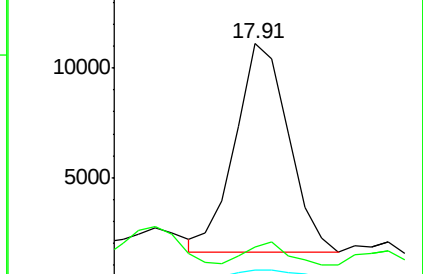
104 7.1 4.0 6.0#

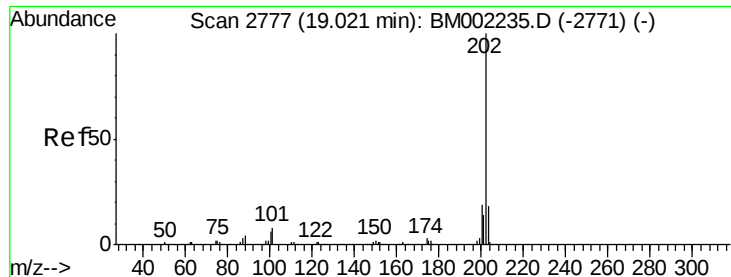


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



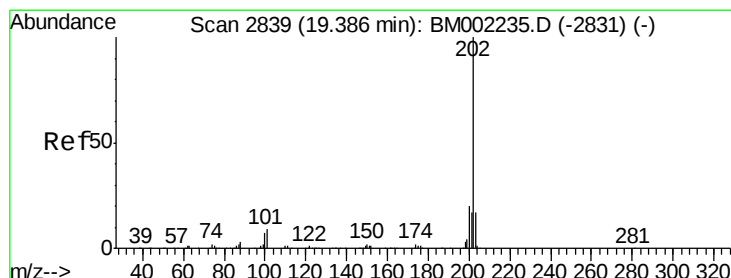
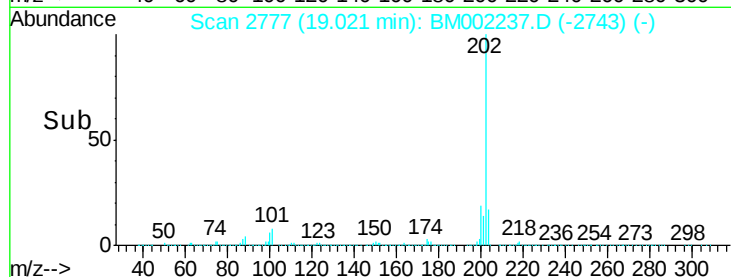
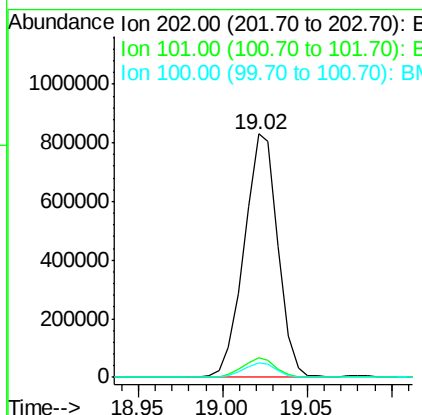
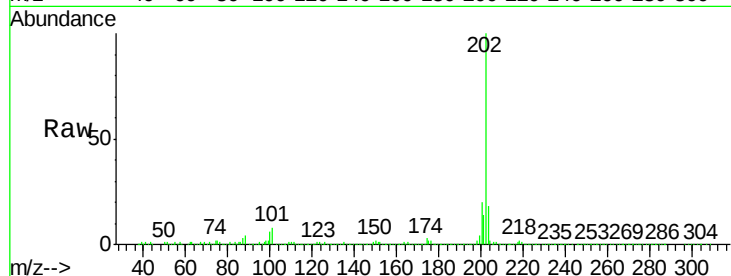


#77
 Fluoranthene
 Concen: 94.71 ng/ul
 RT: 19.02 min Scan# 2777
 Delta R.T. 0.00 min
 Lab File: BM002237.D
 Acq: 05 Aug 2015 17:55

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion:202 Resp: 1147999

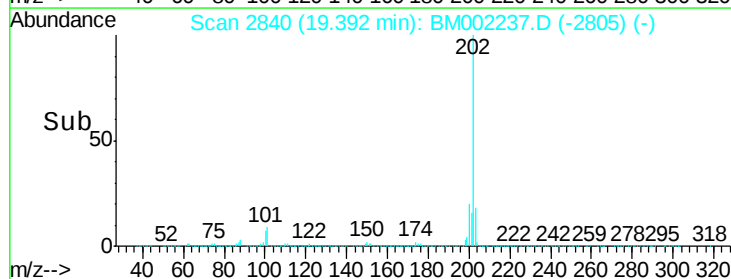
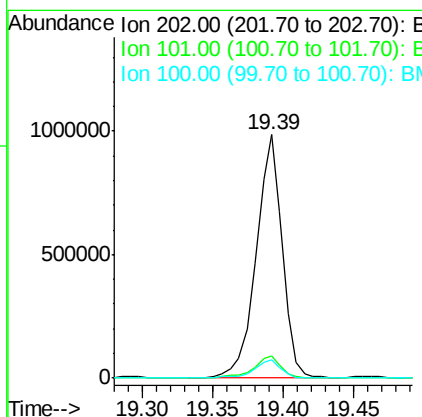
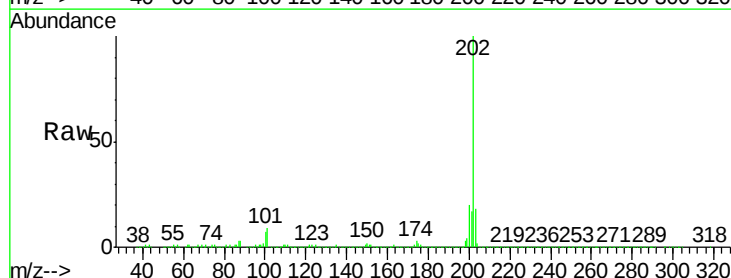
Ion	Ratio	Lower	Upper
202	100		
101	8.1	6.2	9.2
100	6.2	4.8	7.2

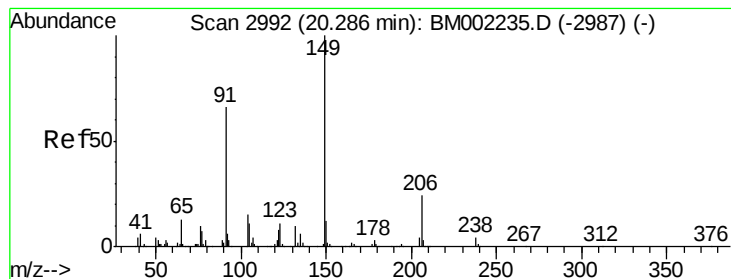


#80
 Pyrene
 Concen: 76.16 ng/ul
 RT: 19.39 min Scan# 2840
 Delta R.T. 0.01 min
 Lab File: BM002237.D
 Acq: 05 Aug 2015 17:55

Tgt Ion:202 Resp: 1276563

Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.0	10.6
100	7.5	5.8	8.8





#81

Butylbenzylphthalate

Concen: 1.71 ng/ul

RT: 20.29 min Scan# 2992

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

Instrument :

BNA_M

ClientSampleId :

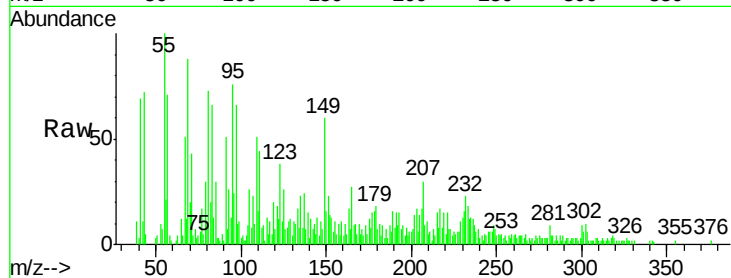
Tot Ion:149 Resp: 10361

Ion Ratio Lower Upper

149 100

91 85.2 50.6 76.0#

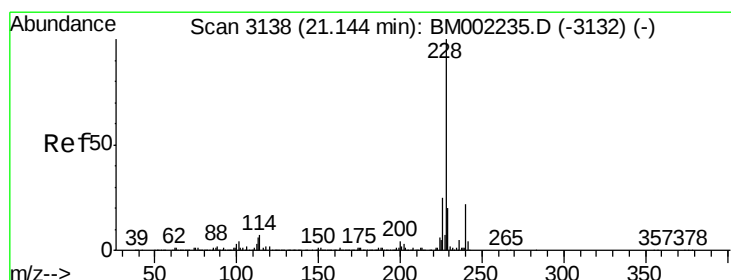
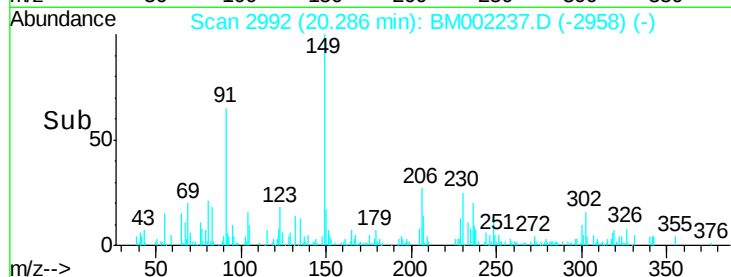
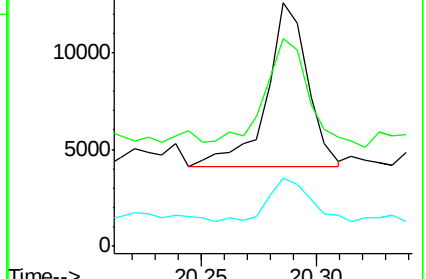
206 28.2 19.8 29.6



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM002237.D (-2958) (-)

Ion 206.00 (205.70 to 206.70): E



#83

Benzo(a)anthracene

Concen: 40.07 ng/ul

RT: 21.14 min Scan# 3138

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

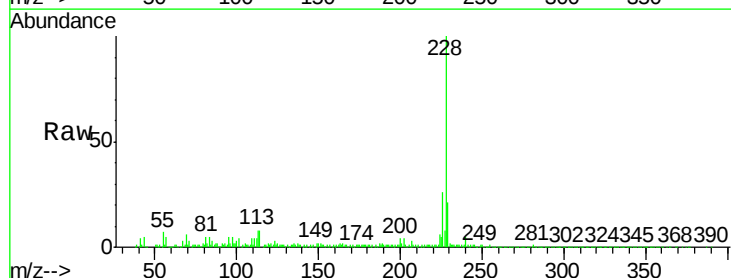
Tgt Ion:228 Resp: 612104

Ion Ratio Lower Upper

228 100

229 21.0 15.9 23.9

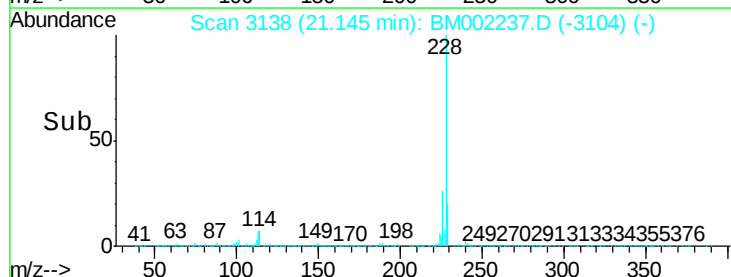
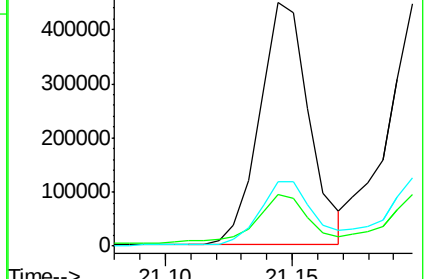
226 26.4 20.6 31.0

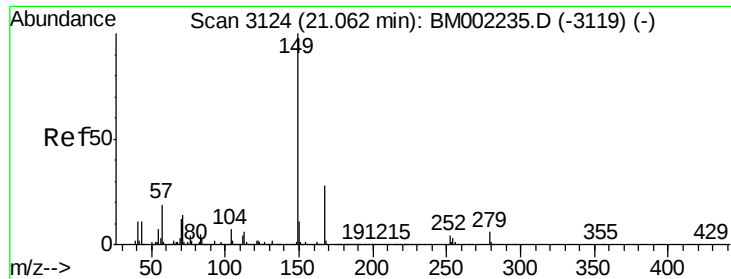


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 24.99 ng/ul

RT: 21.06 min Scan# 3124

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

Instrument :

BNA_M

ClientSampled :

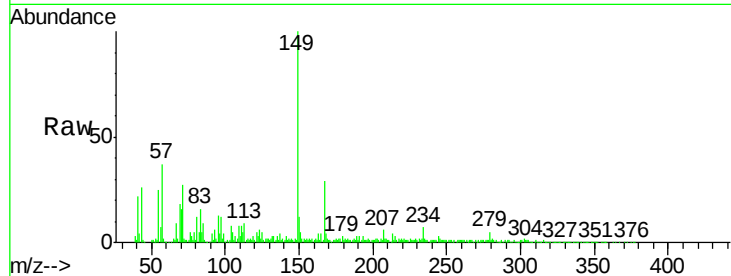
Tot Ion:149 Resp: 214845

Ion Ratio Lower Upper

149 100

167 29.0 23.0 34.4

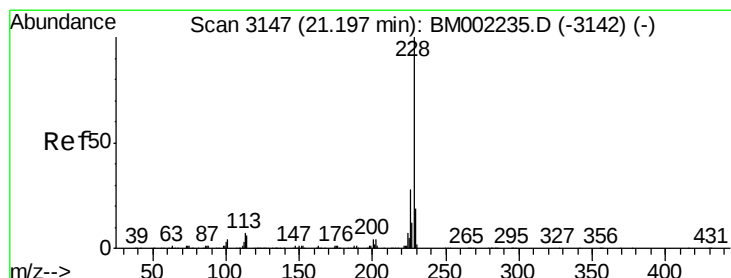
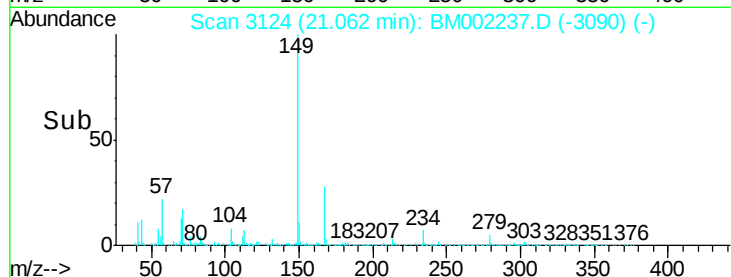
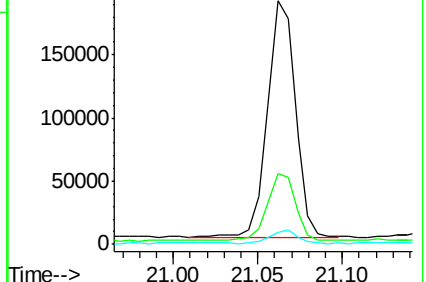
279 5.0 4.0 6.0



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: 42.50 ng/ul

RT: 21.20 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

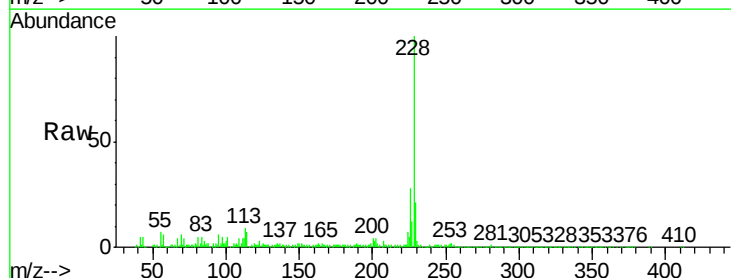
Tgt Ion:228 Resp: 597782

Ion Ratio Lower Upper

228 100

226 28.2 22.2 33.4

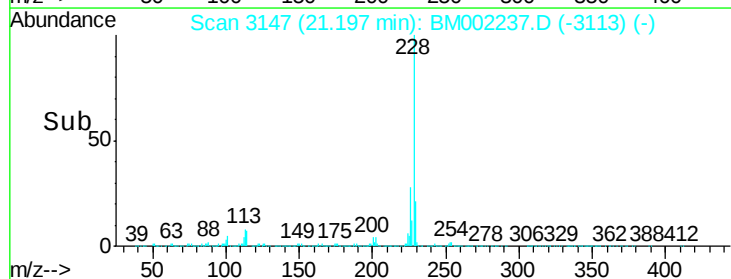
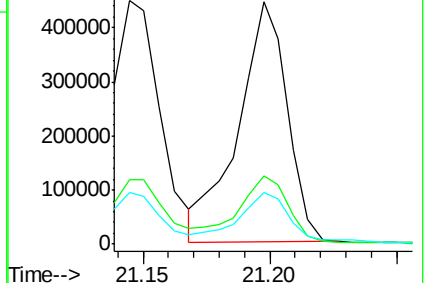
229 21.5 15.5 23.3

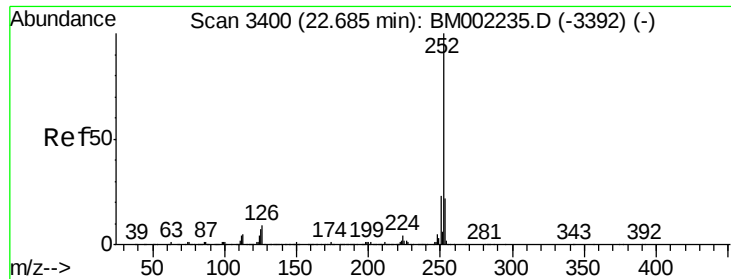


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

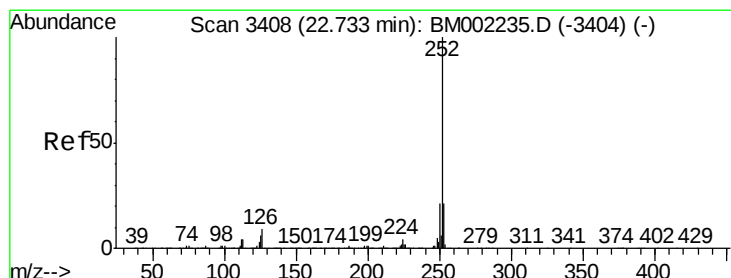
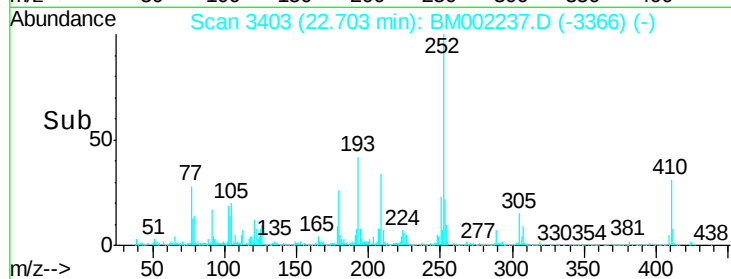
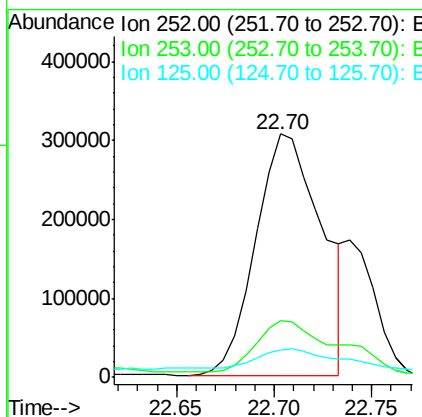
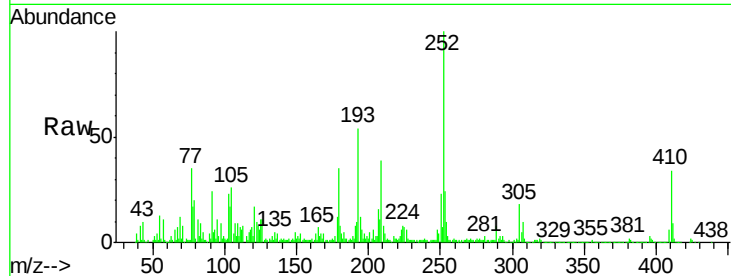




#88
Benzo(b)fluoranthene
Concen: 53.55 ng/ul
RT: 22.70 min Scan# 3403
Delta R.T. 0.02 min
Lab File: BM002237.D
Acq: 05 Aug 2015 17:55

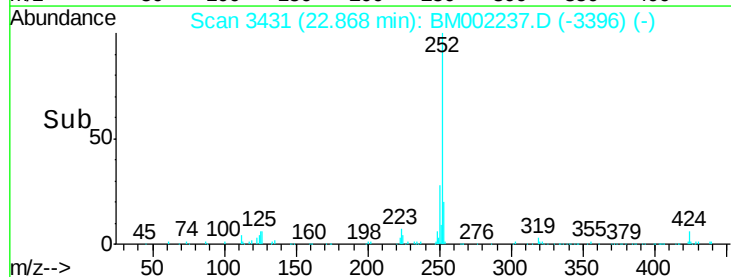
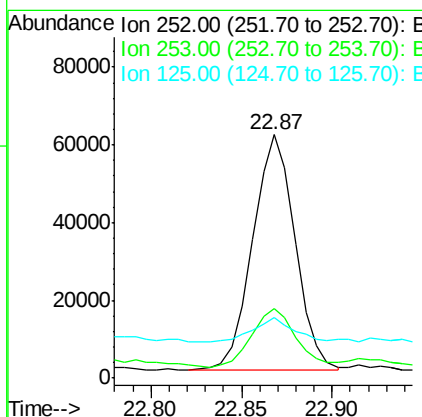
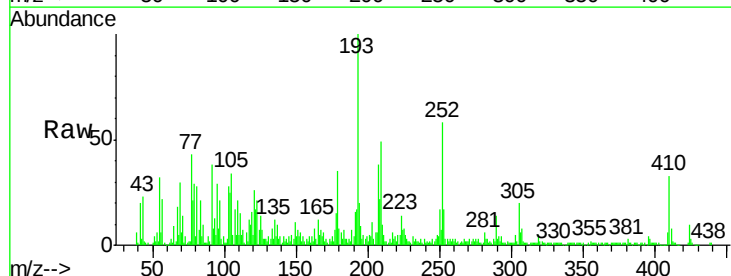
Instrument :
BNA_M
ClientSampleId :

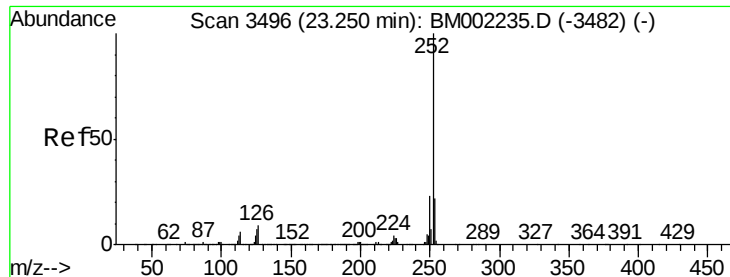
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.4	26.0
125	11.2	5.4	8.2



#89
Benzo(k)fluoranthene
Concen: 7.54 ng/ul
RT: 22.87 min Scan# 3431
Delta R.T. 0.14 min
Lab File: BM002237.D
Acq: 05 Aug 2015 17:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.7	17.4	26.2
125	24.7	5.6	8.4





#91

Benzo(a)pyrene

Concen: 36.27 ng/ul

RT: 23.27 min Scan# 3499

Delta R.T. 0.02 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

Instrument :

BNA_M

ClientSampleId :

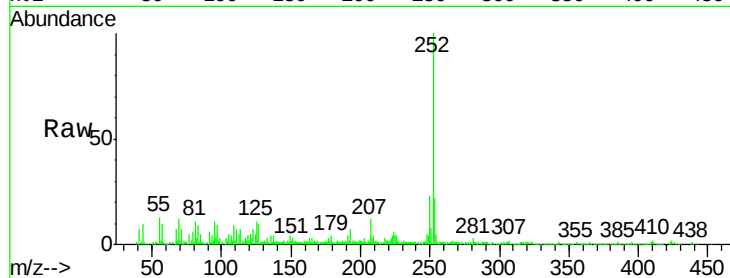
Tot Ion:252 Resp: 461868

Ion Ratio Lower Upper

252 100

253 22.5 17.4 26.0

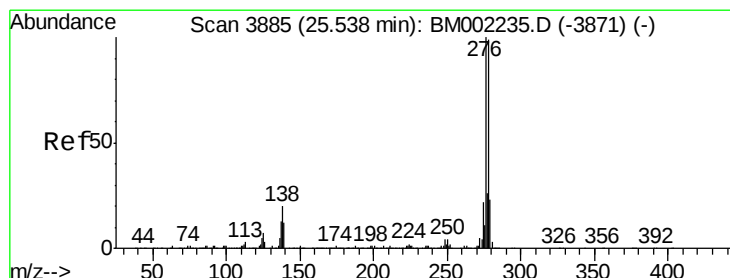
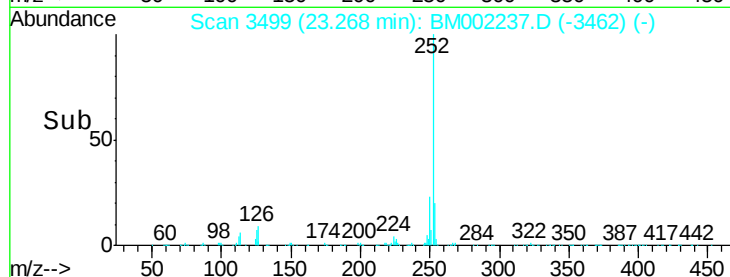
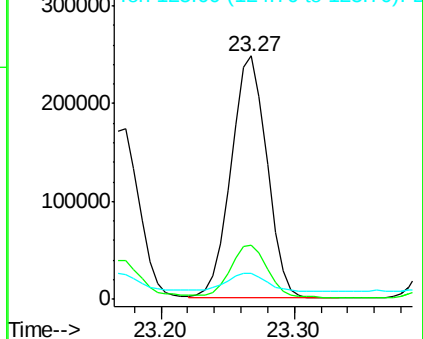
125 10.7 6.1 9.1#



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: 18.24 ng/ul

RT: 25.55 min Scan# 3887

Delta R.T. 0.01 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

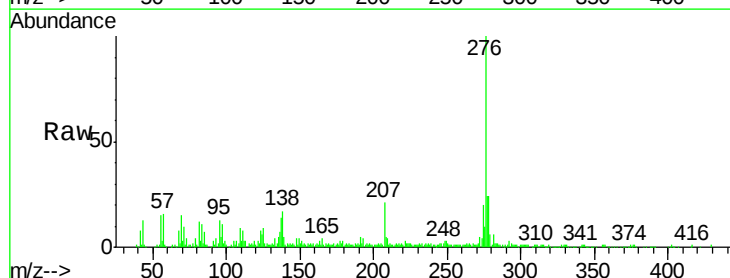
Tgt Ion:276 Resp: 261706

Ion Ratio Lower Upper

276 100

138 17.1 15.4 23.0

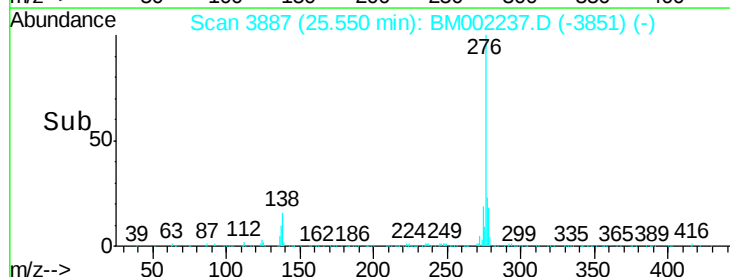
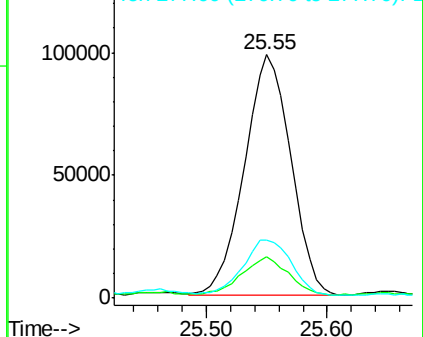
277 24.1 20.2 30.2

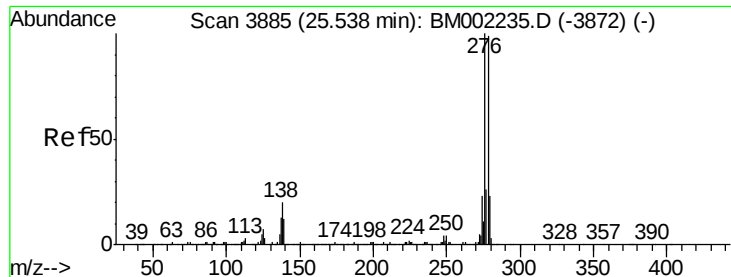


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 6.18 ng/ul

RT: 25.54 min Scan# 3886

Delta R.T. 0.01 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

Instrument :

BNA_M

ClientSampleId :

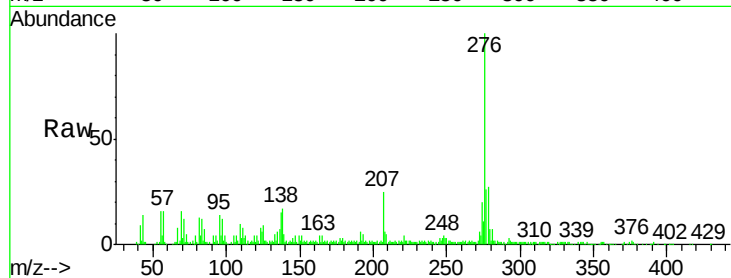
Tot Ion:278 Resp: 75656

Ion Ratio Lower Upper

278 100

139 20.2 10.4 15.6#

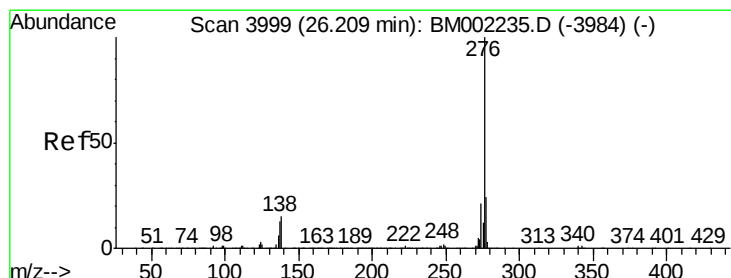
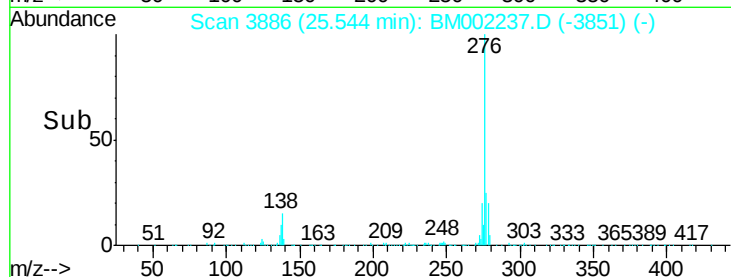
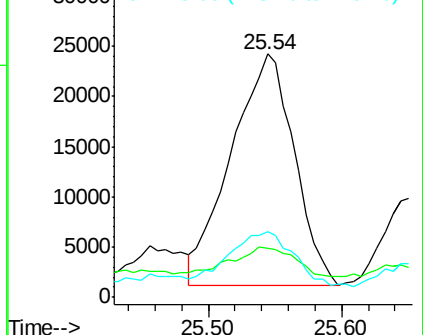
279 26.9 17.9 26.9



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: 20.38 ng/ul

RT: 26.23 min Scan# 4003

Delta R.T. 0.02 min

Lab File: BM002237.D

Acq: 05 Aug 2015 17:55

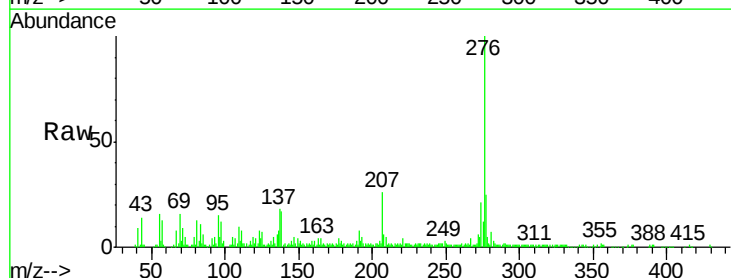
Tgt Ion:276 Resp: 243594

Ion Ratio Lower Upper

276 100

138 16.6 12.5 18.7

277 24.9 19.4 29.0



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

