

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080515\
 Data File : BM002241.D
 Acq On : 05 Aug 2015 20:22
 Operator : TP/UM
 Sample : G3095-12RE
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Aug 06 01:47:46 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	7.51	152	33414	20.00	ng/ul	0.00
18) Naphthalene-d8	10.30	136	155930	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.19	164	100629	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.96	188	236419	20.00	ng/ul	0.00
78) Chrysene-d12	21.18	240	281880	20.00	ng/ul	0.02
86) Perylene-d12	23.23	264	209519	20.00	ng/ul	-0.11

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.95	96	1409	2.40	ng/uL	0.00
5) Phenol-d5	6.72	99	40612	16.36	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.86	67	22950	17.69	ng/ul	0.00
9) 2-Chlorophenol-d4	7.05	132	41722	19.67	ng/ul	0.00
13) 4-Methylphenol-d8	8.26	113	39086	18.96	ng/ul	0.00
19) Nitrobenzene-d5	8.68	128	19994	17.69	ng/ul	0.00
22) 2-Nitrophenol-d4	9.40	143	22081	16.57	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.96	165	37333	14.63	ng/ul	0.00
29) 4-Chloroaniline-d4	10.47	131	37453	13.26	ng/ul	0.01
44) Dimethylphthalate-d6	13.60	166	145712	19.91	ng/ul	0.00
47) Acenaphthylene-d8	13.89	160	176888	19.12	ng/ul	0.00
52) 4-Nitrophenol-d4	14.49	143	17919	18.89	ng/ul	0.02
58) Fluorene-d10	15.19	176	130685	20.22	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.38	200	1439	1.06	ng/ul	0.02
71) Anthracene-d10	17.06	188	210869	20.04	ng/ul	0.01
79) Pyrene-d10	19.37	212	246897	18.30	ng/ul	0.01
90) Benzo(a)pyrene-d12	23.11	264	400	0.04	ng/ul	-0.09

Target Compounds

					Ovalue	
6) Phenol	6.76	94	4984	1.98	ng/ul	91
14) Acetophenone	8.35	105	8151	2.49	ng/ul#	92
16) 4-Methylphenol	8.32	108	3380	1.55	ng/ul#	78
17) Hexachloroethane	8.69	117	1194	1.46	ng/ul#	1
28) Naphthalene	10.36	128	1191436	161.55	ng/ul	98
34) 2-Methylnaphthalene	11.98	142	170592	30.05	ng/ul	100
35) 1-Methylnaphthalene	12.20	142	85277	15.72	ng/ul	99
41) 1,1'-Biphenyl	13.02	154	68223	8.82	ng/ul	97
45) Dimethylphthalate	13.65	163	49276	6.75	ng/ul	99
48) Acenaphthylene	13.92	152	71075	7.53	ng/ul	97
50) Acenaphthene	14.26	153	1086837	176.35	ng/ul	98
53) 4-Nitrophenol	14.60	109	2243	2.70	ng/ul#	1
54) Dibenzofuran	14.60	168	553700	62.00	ng/ul	99
59) Fluorene	15.25	166	757177	103.11	ng/ul	100
70) Phenanthrene	17.02	178	8265558	680.89	ng/ul	97
72) Anthracene	17.10	178	1962735	158.19	ng/ul	99
75) Carbazole	17.37	167	1031383	99.74	ng/ul	99
76) Di-n-butylphthalate	17.92	149	19356	1.58	ng/ul#	95
77) Fluoranthene	19.18	202	29922	2.25	ng/ul	100
80) Pyrene	19.42	202	10159693	586.41	ng/ul#	90
83) Benzo(a)anthracene	21.17	228	5352550	338.95	ng/ul	97
84) Bis(2-ethylhexyl)phthalate	21.07	149	21444	2.41	ng/ul#	91
85) Chrysene	21.17	228	5352550	368.15	ng/ul	98

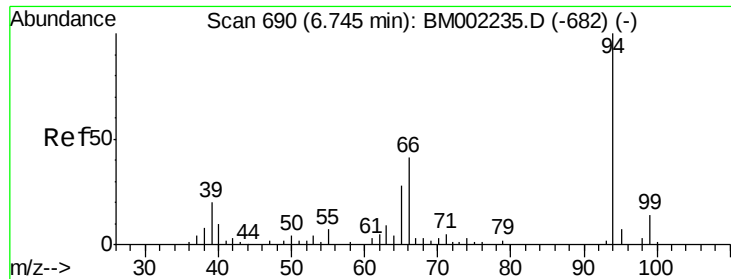
Data Path : Z:\HPCHEM1\BNA M\DATA\BM080515\
Data File : BM002241.D
Acq On : 05 Aug 2015 20:22
Operator : TP/UM
Sample : G3095-12RE
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :

Quant Time: Aug 06 01:47:46 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)
88) Benzo(b)fluoranthene	22.63	252	20333	1.72	ng/ul#	1
89) Benzo(k)fluoranthene	22.77	252	1608904	140.73	ng/ul	96
91) Benzo(a)pyrene	23.30	252	4028226	357.27	ng/ul	96
92) Indeno(1,2,3-cd)pyrene	25.41	276	46200	3.64	ng/ul#	58
93) Dibenzo(a,h)anthracene	25.41	278	69479	6.41	ng/ul#	75

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



#6

Phenol

Concen: 1.98 ng/ul

RT: 6.76 min Scan# 692

Delta R.T. 0.01 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

Instrument :

BNA_M

ClientSampled :

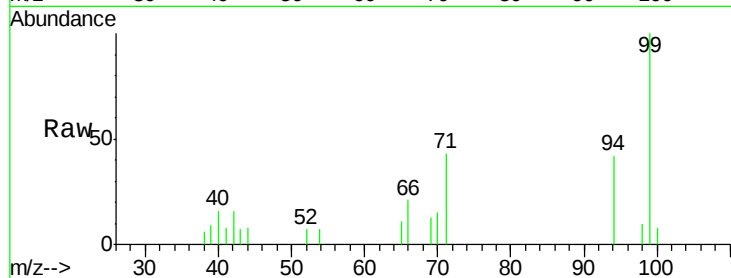
Tot Ion: 94 Resp: 4984

Ion Ratio Lower Upper

94 100

65 27.2 23.4 35.0

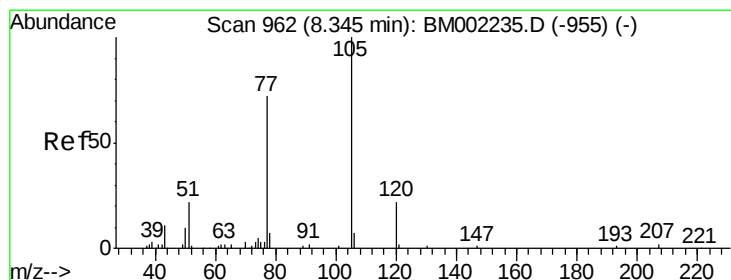
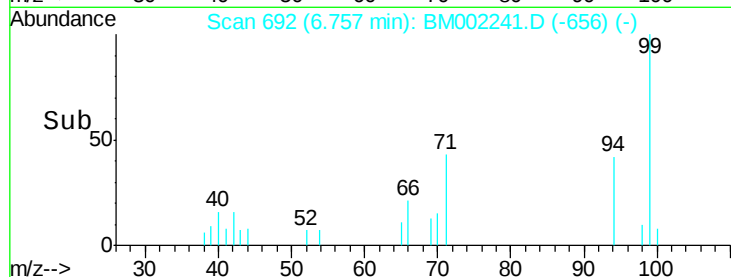
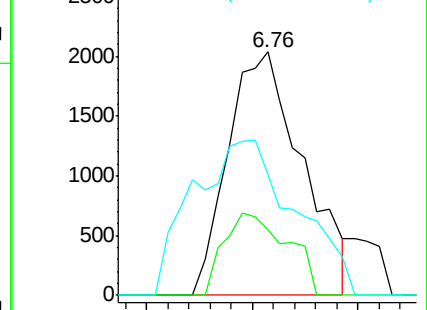
66 49.7 33.2 49.8



Abundance Ion 94.00 (93.70 to 94.70): BM002235.D (-682) (-)

Ion 65.00 (64.70 to 65.70): BM002235.D (-682) (-)

Ion 66.00 (65.70 to 66.70): BM002235.D (-682) (-)



#14

Acetophenone

Concen: 2.49 ng/ul

RT: 8.35 min Scan# 963

Delta R.T. 0.01 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

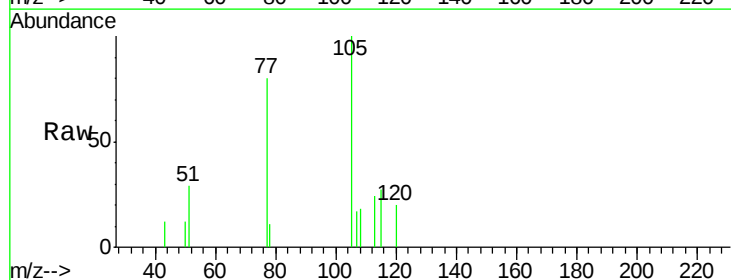
Tgt Ion: 105 Resp: 8151

Ion Ratio Lower Upper

105 100

77 80.3 60.1 90.1

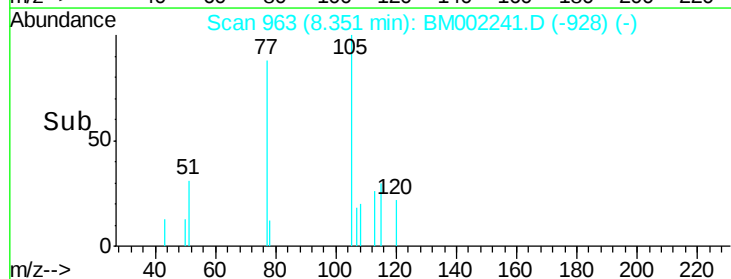
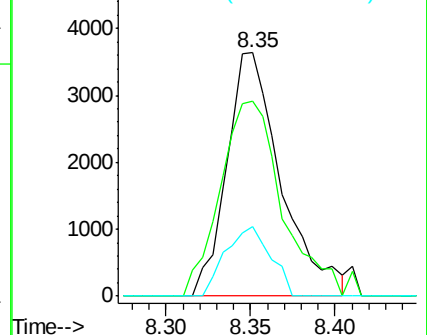
51 28.5 17.8 26.8#

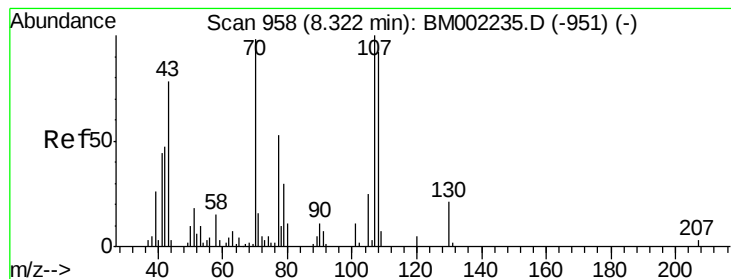


Abundance Ion 105.00 (104.70 to 105.70): BM002235.D (-955) (-)

Ion 77.00 (76.70 to 77.70): BM002235.D (-955) (-)

Ion 51.00 (50.70 to 51.70): BM002235.D (-955) (-)





#16

4-Methylphenol

Concen: 1.55 ng/ul

RT: 8.32 min Scan# 958

Delta R.T. 0.00 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

Instrument :

BNA_M

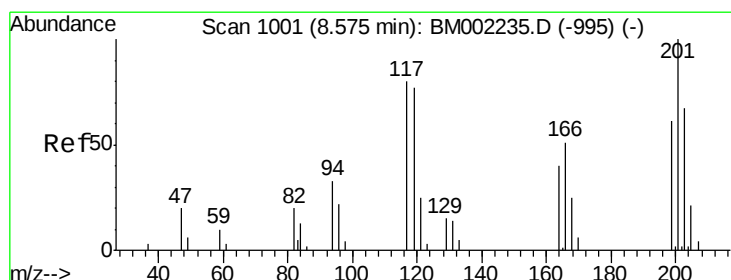
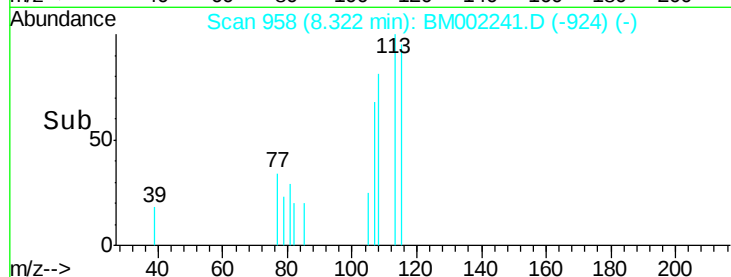
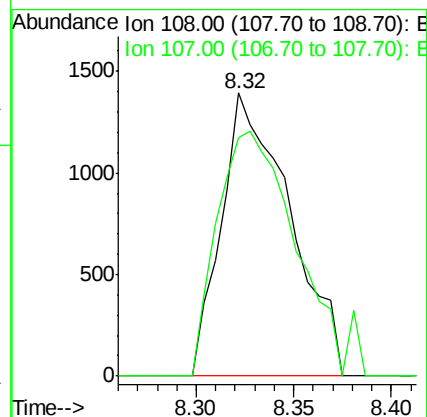
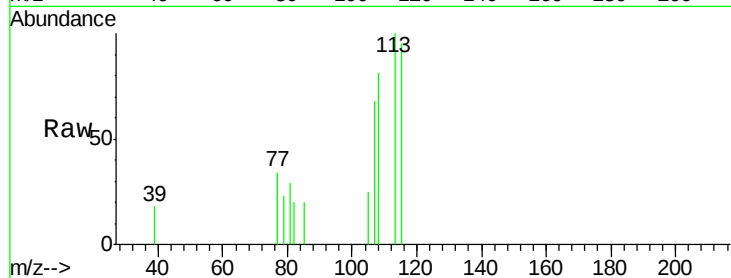
ClientSampleId :

Tot Ion:108 Resp: 3380

Ion Ratio Lower Upper

108 100

107 84.4 85.9 128.9#



#17

Hexachloroethane

Concen: 1.46 ng/ul

RT: 8.69 min Scan# 1020

Delta R.T. 0.11 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

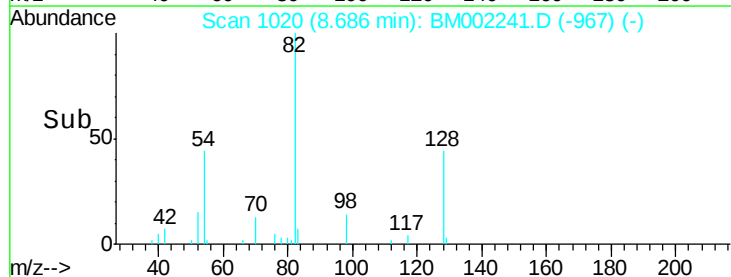
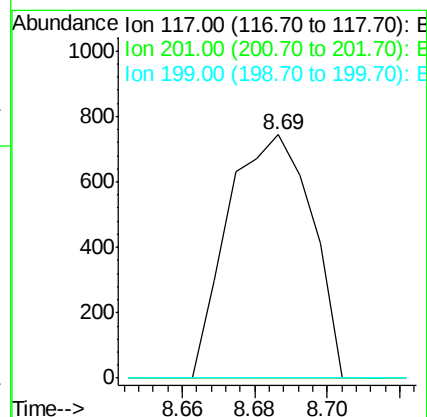
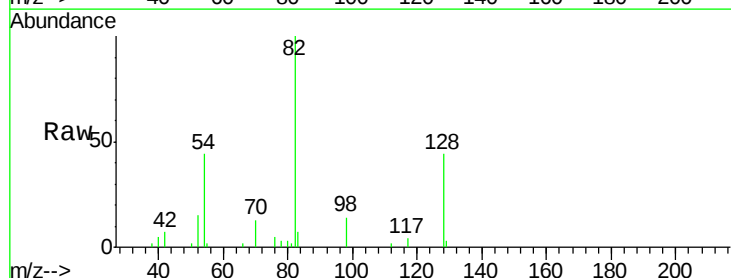
Tgt Ion:117 Resp: 1194

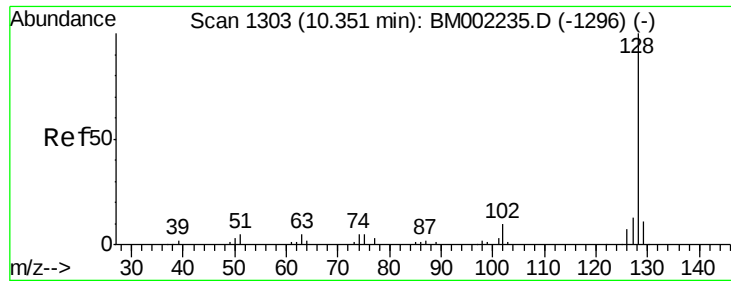
Ion Ratio Lower Upper

117 100

201 0.0 97.8 146.6#

199 0.0 61.8 92.6#

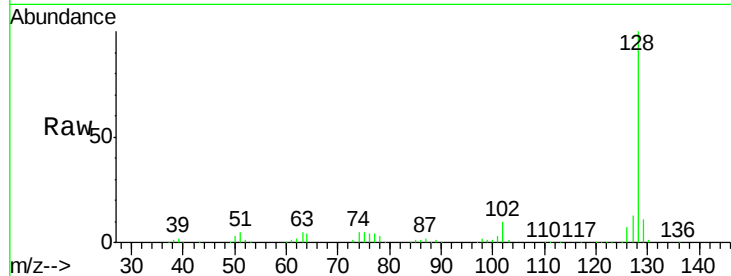




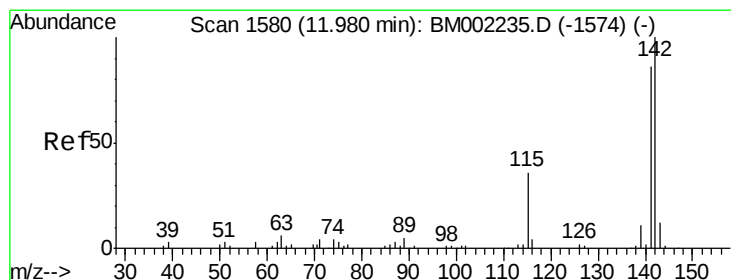
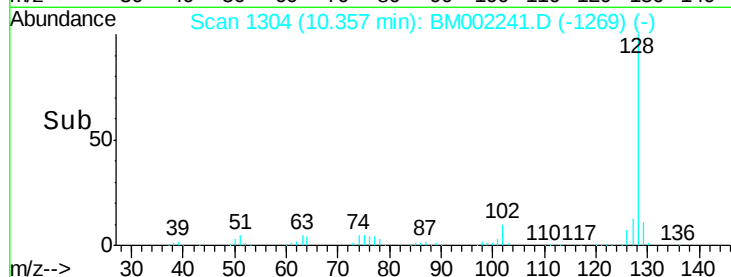
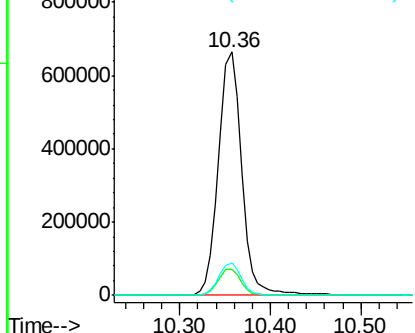
#28
Naphthalene
Concen: 161.55 ng/ul
RT: 10.36 min Scan# 1304
Delta R.T. 0.01 min
Lab File: BM002241.D
Acq: 05 Aug 2015 20:22

Instrument :
BNA_M
ClientSampleId :

Tot Ion:128 Resp: 1191436
Ion Ratio Lower Upper
128 100
129 10.8 8.2 12.2
127 13.3 10.1 15.1

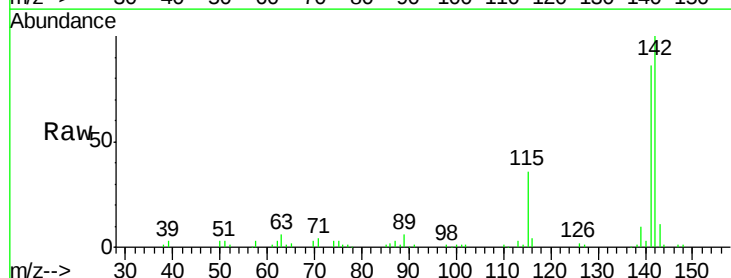


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

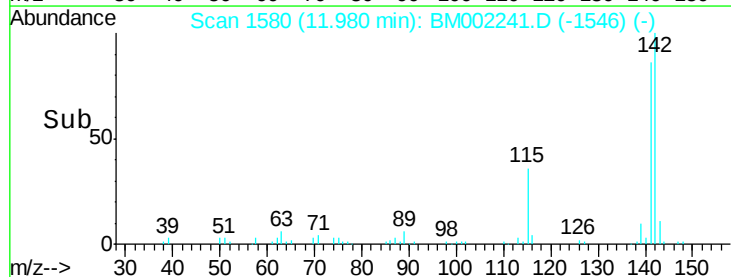
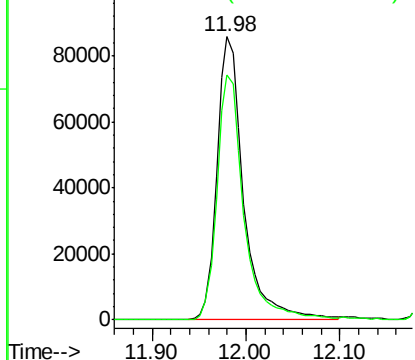


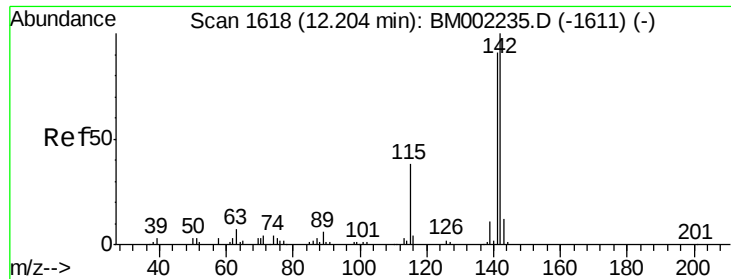
#34
2-Methylnaphthalene
Concen: 30.05 ng/ul
RT: 11.98 min Scan# 1580
Delta R.T. 0.00 min
Lab File: BM002241.D
Acq: 05 Aug 2015 20:22

Tgt Ion:142 Resp: 170592
Ion Ratio Lower Upper
142 100
141 86.3 68.9 103.3



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E

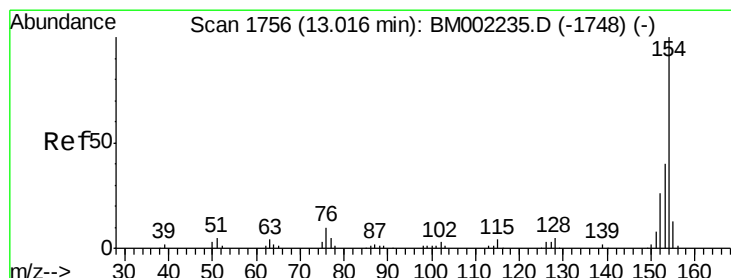
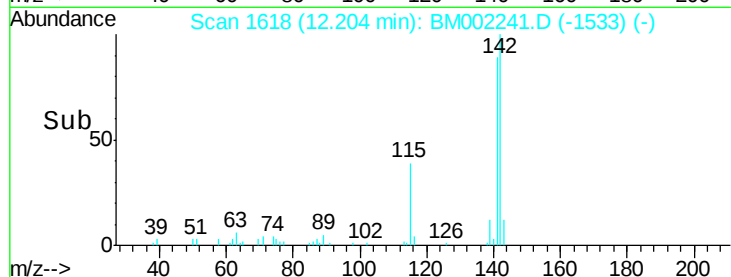
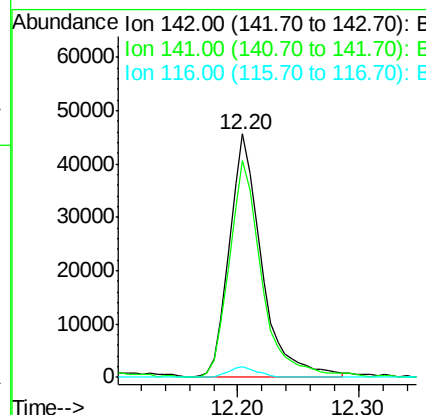
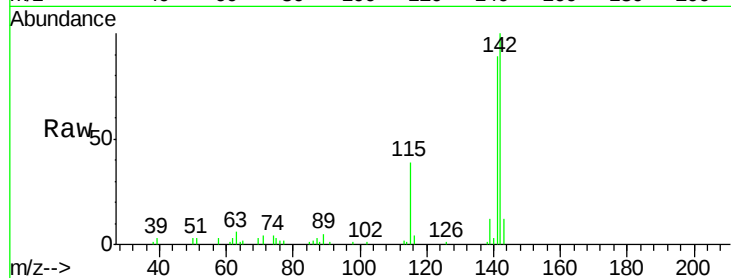




#35
 1-Methylnaphthalene
 Concen: 15.72 ng/ul
 RT: 12.20 min Scan# 1618
 Delta R.T. 0.00 min
 Lab File: BM002241.D
 Acq: 05 Aug 2015 20:22

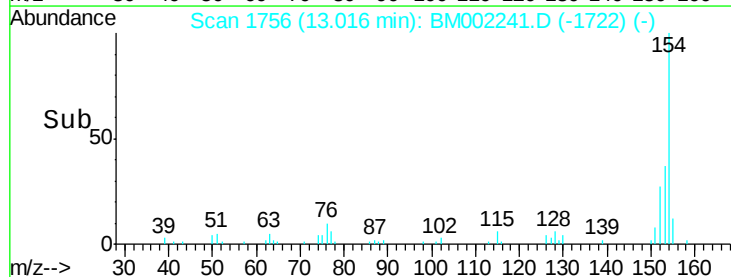
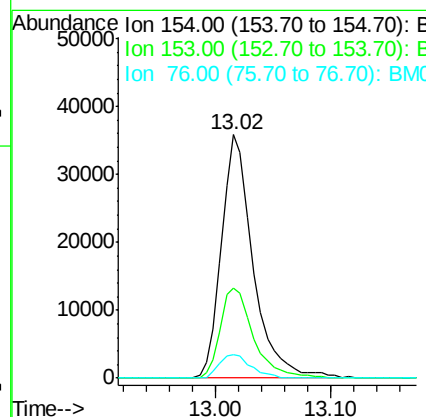
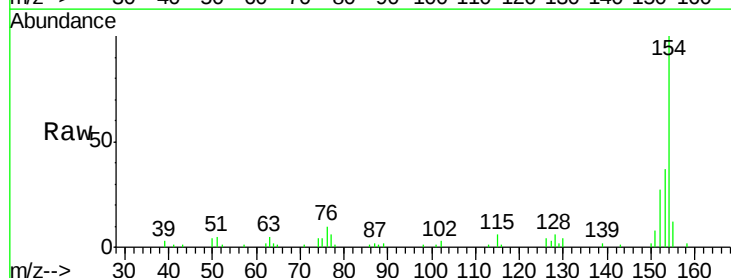
Instrument :
 BNA_M
 ClientSampleId :

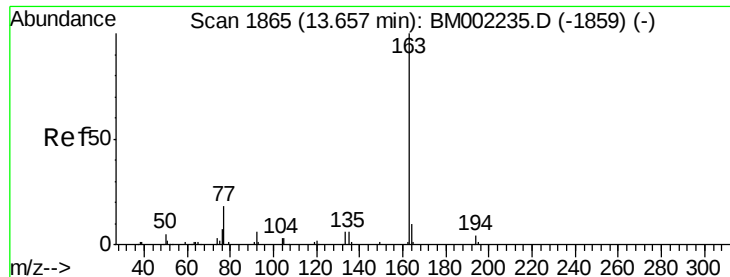
Tot Ion:142 Resp: 85277
 Ion Ratio Lower Upper
 142 100
 141 89.2 71.0 106.4
 116 4.2 3.3 4.9



#41
 1,1'-Biphenyl
 Concen: 8.82 ng/ul
 RT: 13.02 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: BM002241.D
 Acq: 05 Aug 2015 20:22

Tgt Ion:154 Resp: 68223
 Ion Ratio Lower Upper
 154 100
 153 36.8 31.0 46.6
 76 9.6 8.0 12.0

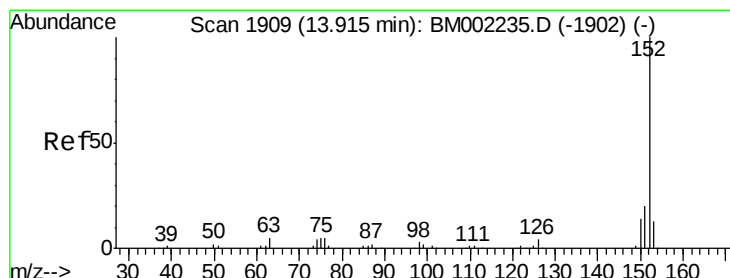
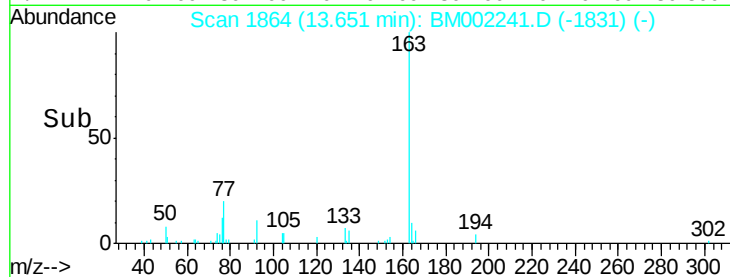
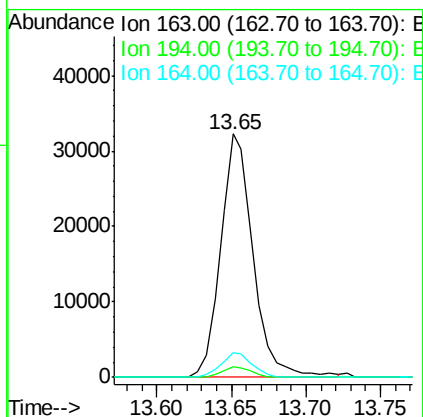
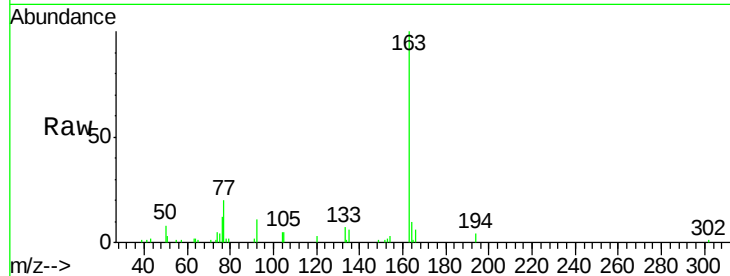




#45
Dimethylphthalate
Concen: 6.75 ng/ul
RT: 13.65 min Scan# 1864
Delta R.T. -0.01 min
Lab File: BM002241.D
Acq: 05 Aug 2015 20:22

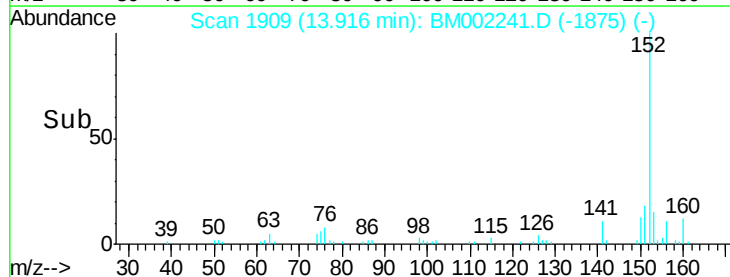
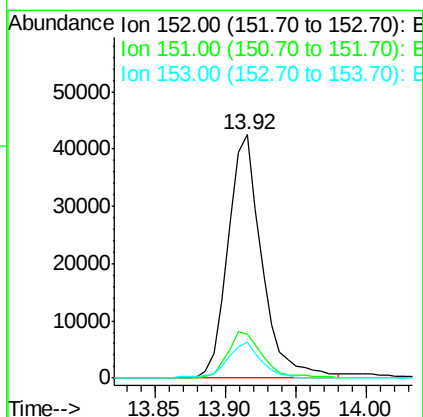
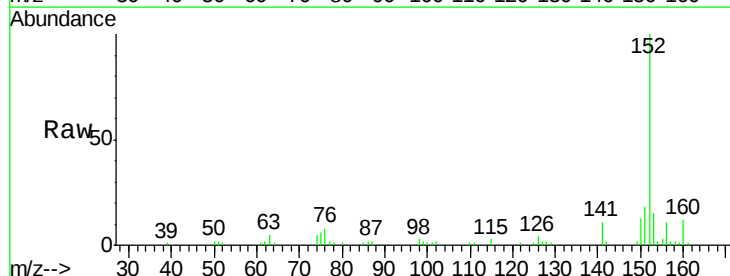
Instrument :
BNA_M
ClientSampleId :

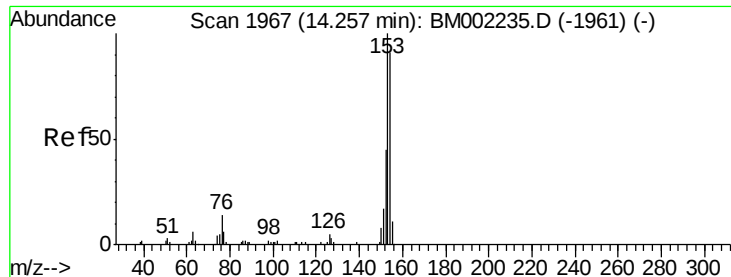
Tot Ion:163 Resp: 49276
Ion Ratio Lower Upper
163 100
194 4.2 3.4 5.2
164 10.2 7.9 11.9



#48
Acenaphthylene
Concen: 7.53 ng/ul
RT: 13.92 min Scan# 1909
Delta R.T. 0.00 min
Lab File: BM002241.D
Acq: 05 Aug 2015 20:22

Tgt Ion:152 Resp: 71075
Ion Ratio Lower Upper
152 100
151 18.2 15.2 22.8
153 14.7 10.3 15.5





#50

Acenaphthene

Concen: 176.35 ng/ul

RT: 14.26 min Scan# 1968

Delta R.T. 0.01 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

Instrument :

BNA_M

ClientSampleId :

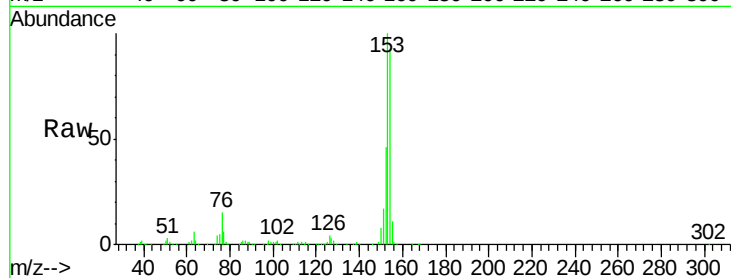
Tot Ion:153 Resp: 1086837

Ion Ratio Lower Upper

153 100

152 46.3 36.6 54.8

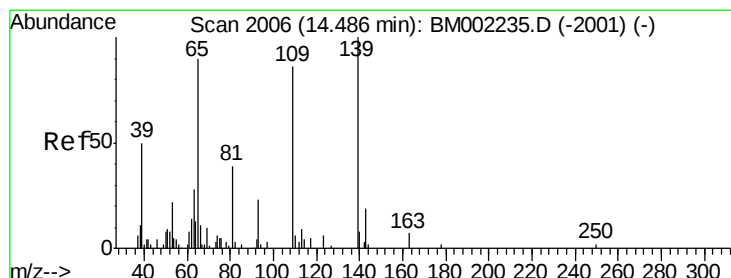
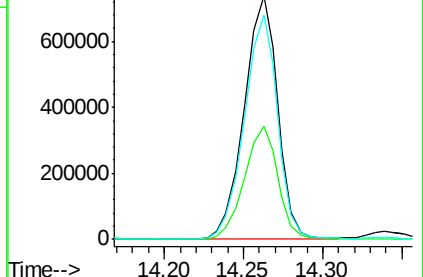
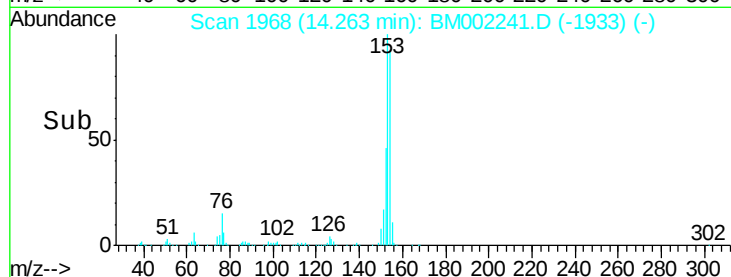
154 92.1 71.7 107.5



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

4-Nitrophenol

Concen: 2.70 ng/ul

RT: 14.60 min Scan# 2025

Delta R.T. 0.11 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

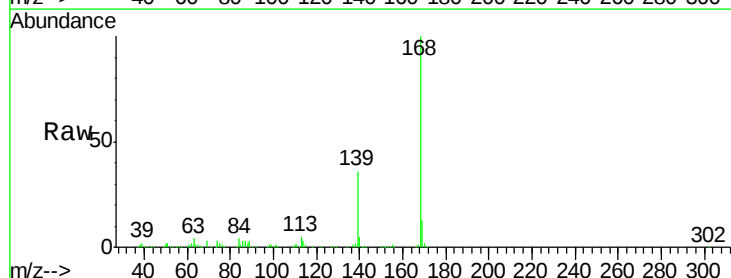
Tgt Ion:109 Resp: 2243

Ion Ratio Lower Upper

109 100

139 8901.9 98.7 148.1#

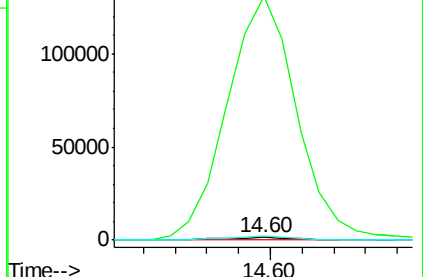
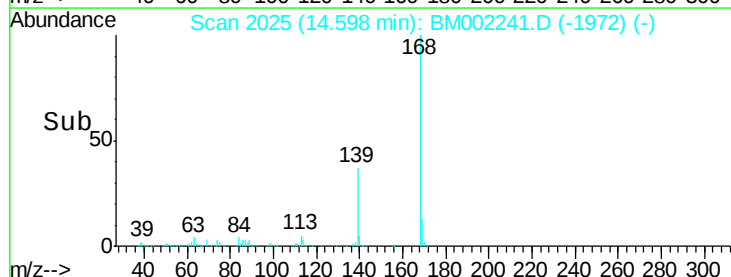
65 136.0 88.8 133.2#

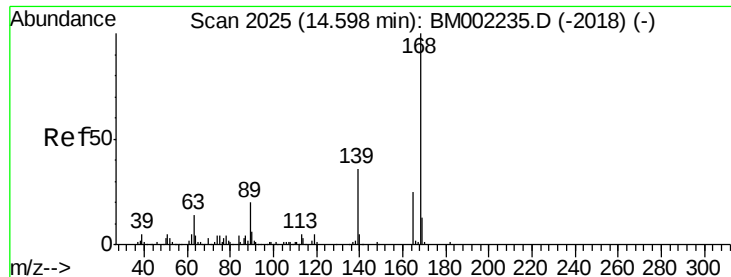


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): E





#54

Dibenzenofuran

Concen: 62.00 ng/ul

RT: 14.60 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

Instrument :

BNA_M

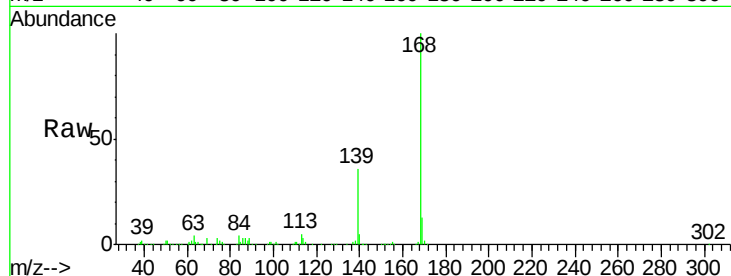
ClientSampleId :

Tot Ion:168 Resp: 553700

Ion Ratio Lower Upper

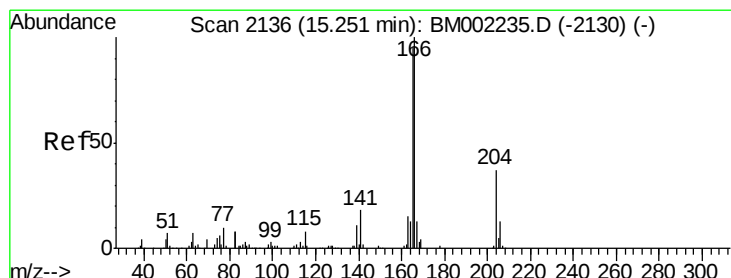
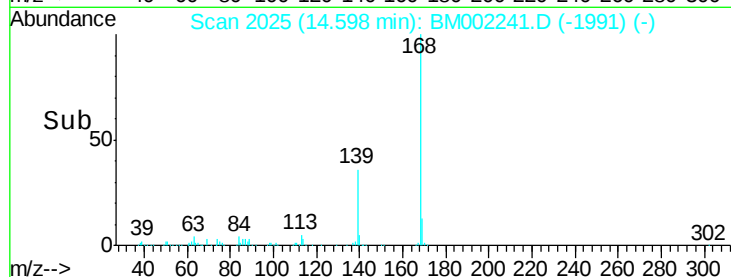
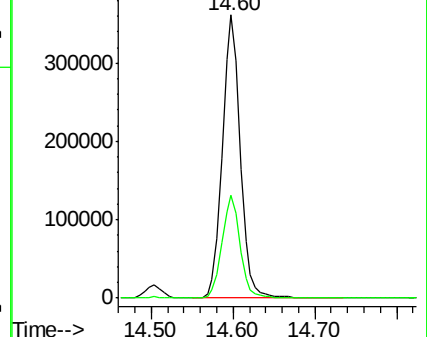
168 100

139 36.2 28.6 42.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 103.11 ng/ul

RT: 15.25 min Scan# 2136

Delta R.T. 0.00 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

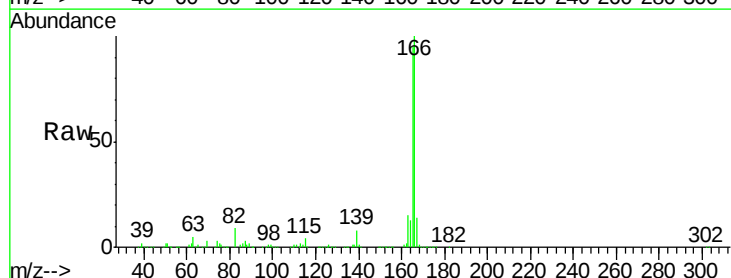
Tgt Ion:166 Resp: 757177

Ion Ratio Lower Upper

166 100

165 95.2 76.0 114.0

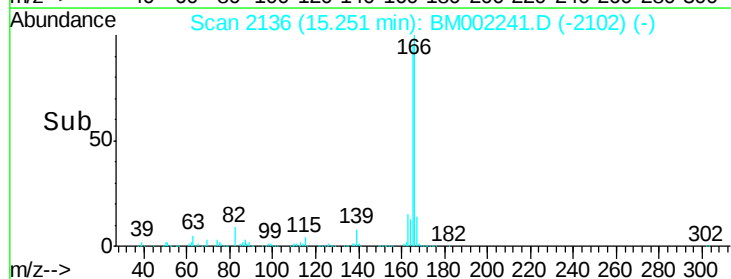
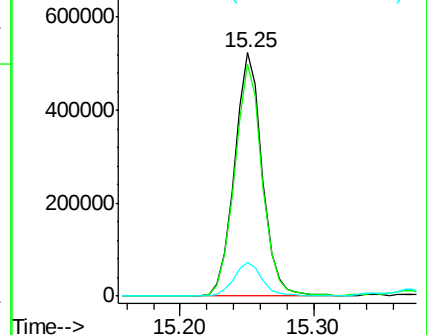
167 13.9 10.5 15.7

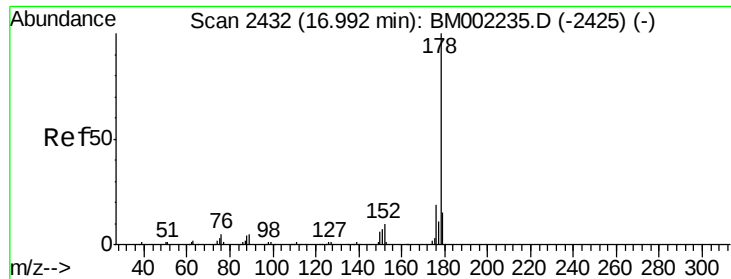


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 680.89 ng/ul

RT: 17.02 min Scan# 2436

Delta R.T. 0.02 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

Instrument :

BNA_M

ClientSampleId :

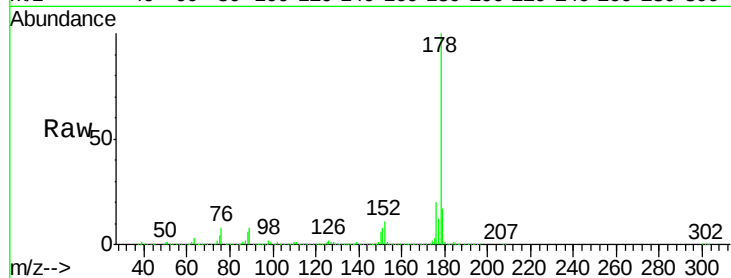
Tot Ion:178 Resp: 8265558

Ion Ratio Lower Upper

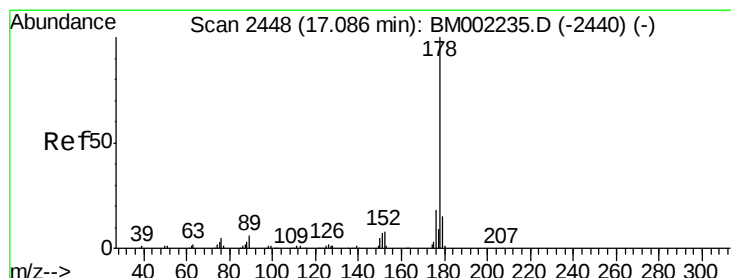
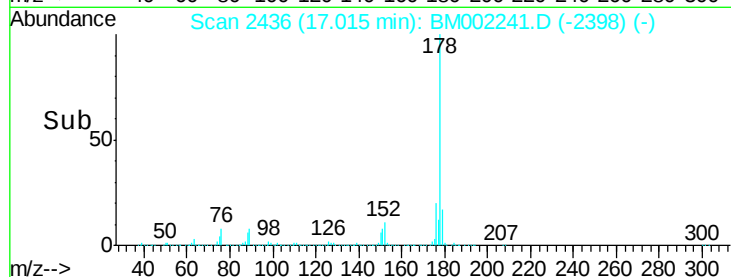
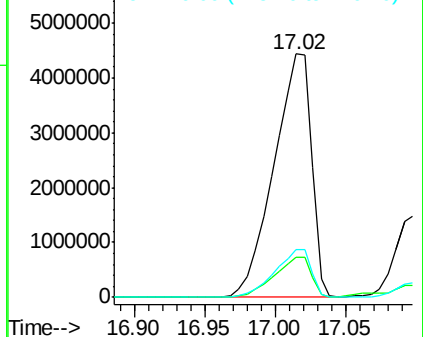
178 100

179 16.6 12.2 18.4

176 19.8 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: 158.19 ng/ul

RT: 17.10 min Scan# 2450

Delta R.T. 0.01 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

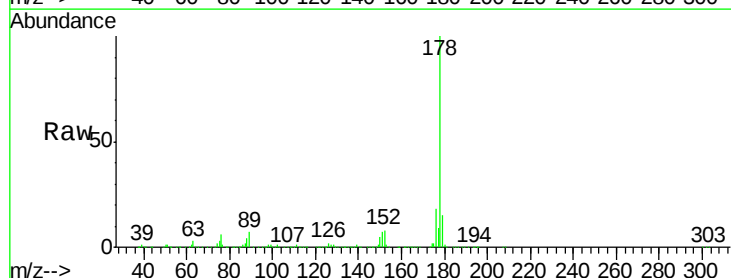
Tgt Ion:178 Resp: 1962735

Ion Ratio Lower Upper

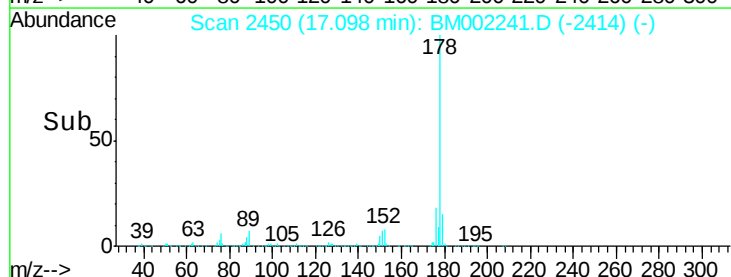
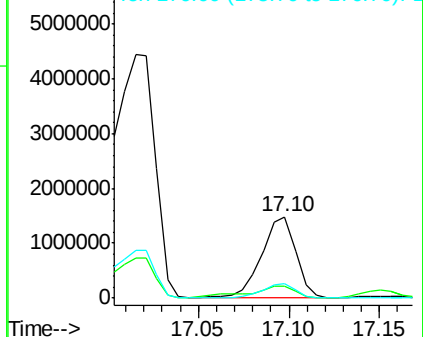
178 100

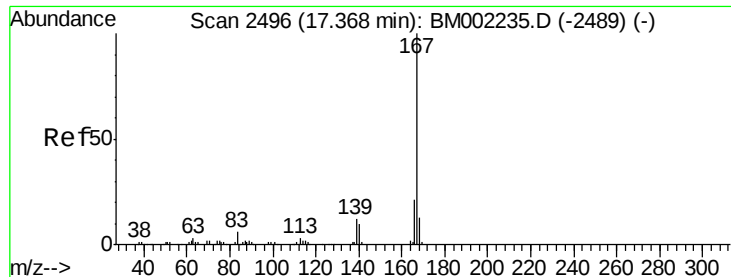
179 15.5 12.2 18.2

176 17.7 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: 99.74 ng/ul

RT: 17.37 min Scan# 2497

Delta R.T. 0.01 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

Instrument :

BNA_M

ClientSampleId :

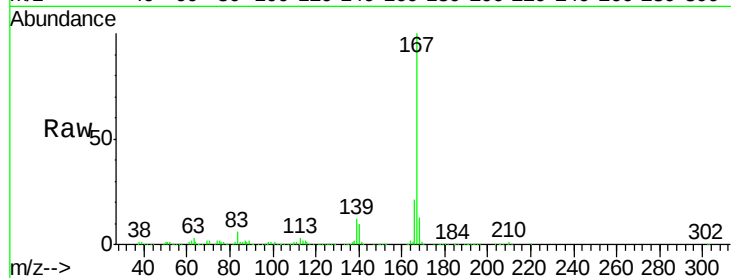
Tot Ion:167 Resp: 1031383

Ion Ratio Lower Upper

167 100

166 20.8 16.7 25.1

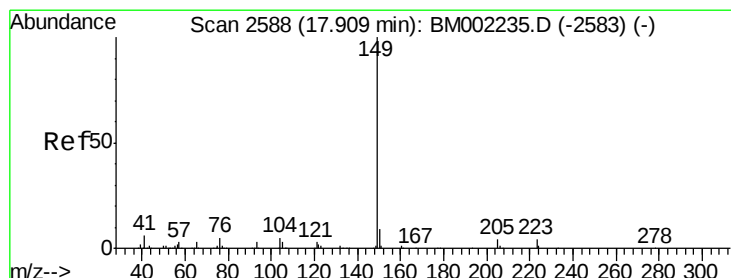
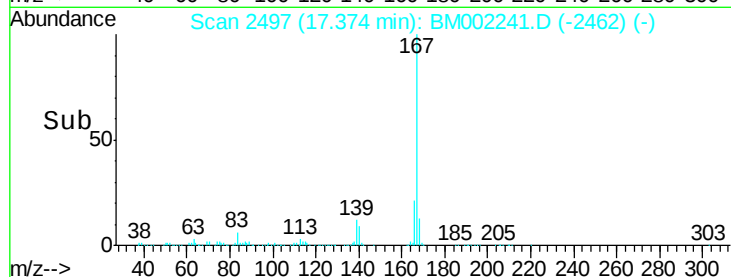
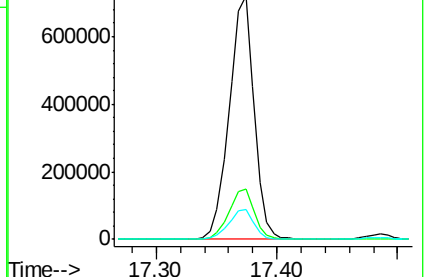
139 12.3 9.4 14.2



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: 1.58 ng/ul

RT: 17.92 min Scan# 2589

Delta R.T. 0.01 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

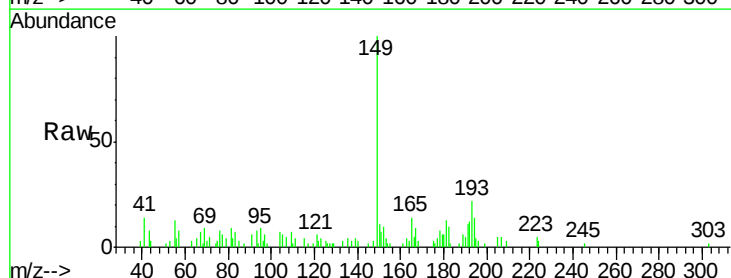
Tgt Ion:149 Resp: 19356

Ion Ratio Lower Upper

149 100

150 10.5 7.0 10.4#

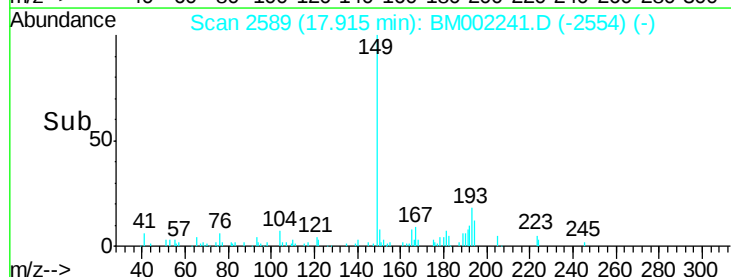
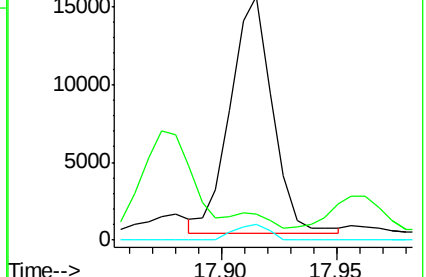
104 6.5 4.0 6.0#

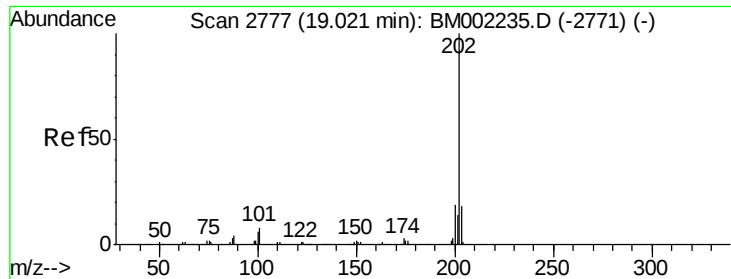


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

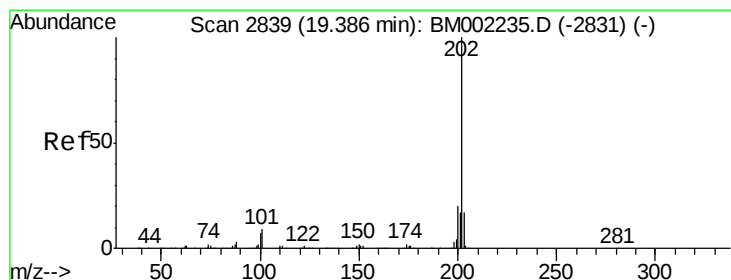
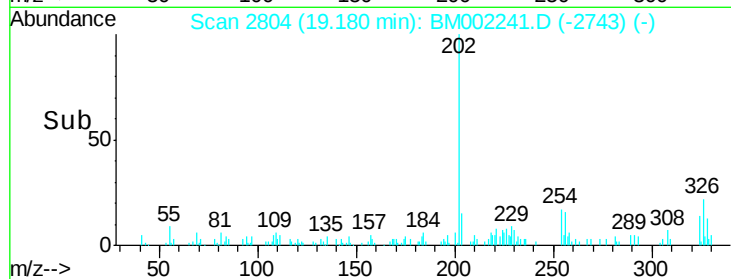
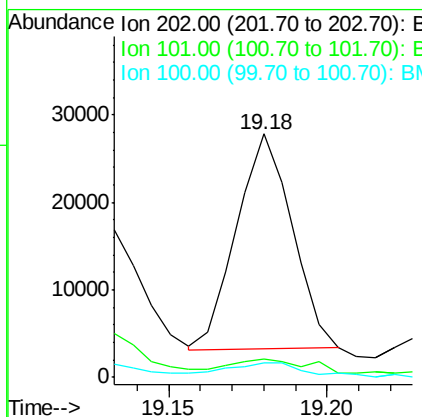
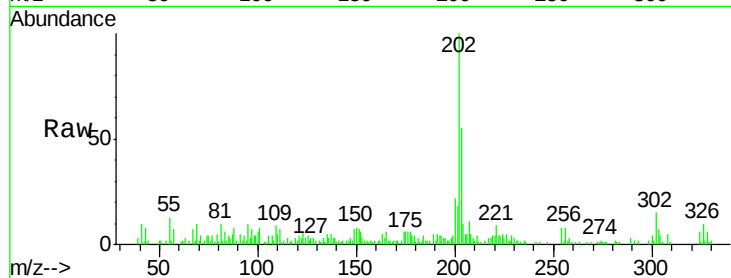




#77
 Fluoranthene
 Concen: 2.25 ng/ul
 RT: 19.18 min Scan# 2804
 Delta R.T. 0.16 min
 Lab File: BM002241.D
 Acq: 05 Aug 2015 20:22

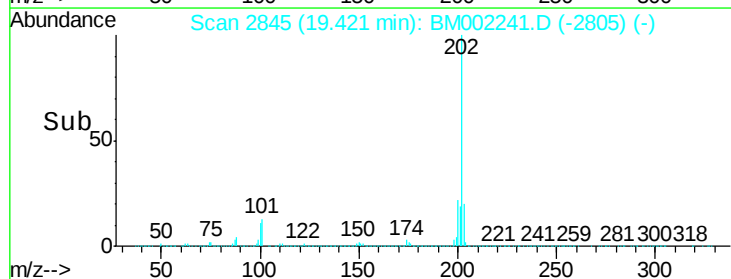
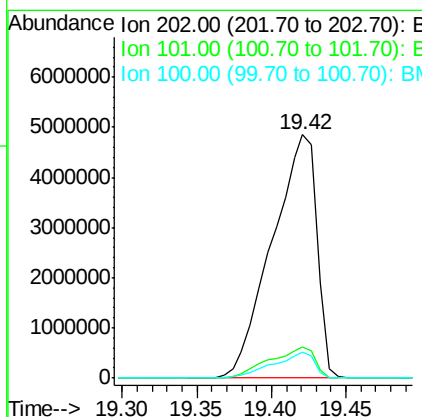
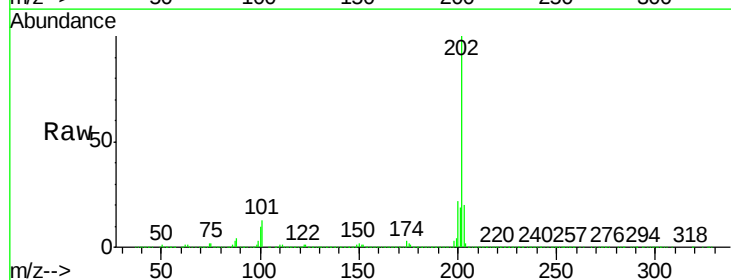
Instrument :
 BNA_M
 ClientSampleId :

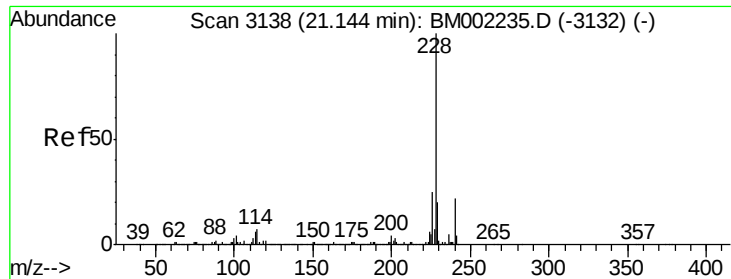
Tot Ion:202	Resp:	29922
Ion Ratio	Lower	Upper
202	100	
101	7.7	6.2 9.2
100	6.0	4.8 7.2



#80
 Pyrene
 Concen: 586.41 ng/ul
 RT: 19.42 min Scan# 2845
 Delta R.T. 0.04 min
 Lab File: BM002241.D
 Acq: 05 Aug 2015 20:22

Tgt Ion:202	Resp:	10159693
Ion Ratio	Lower	Upper
202	100	
101	12.6	7.0 10.6#
100	10.5	5.8 8.8#





#83

Benzo(a)anthracene

Concen: 338.95 ng/ul

RT: 21.17 min Scan# 3142

Delta R.T. 0.02 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

Instrument :

BNA_M

ClientSampleId :

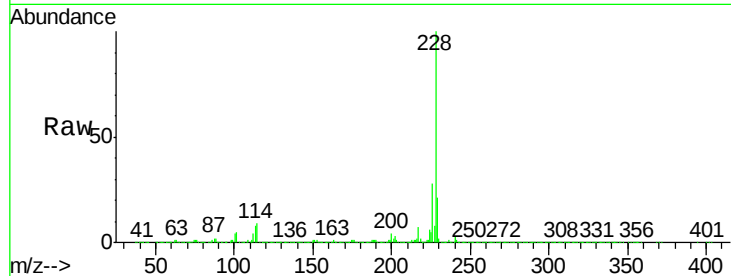
Tot Ion:228 Resp: 5352550

Ion Ratio Lower Upper

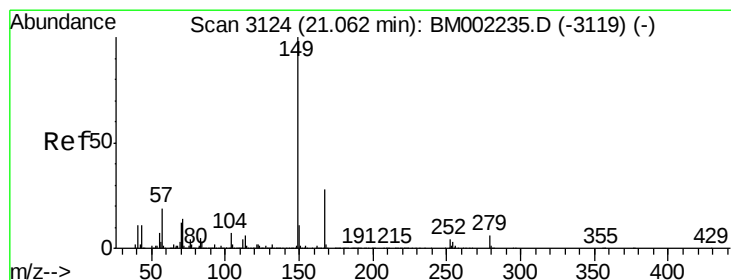
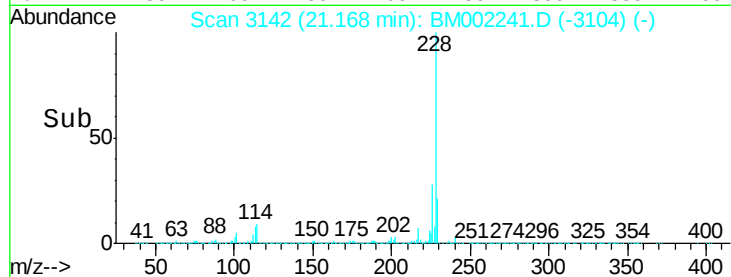
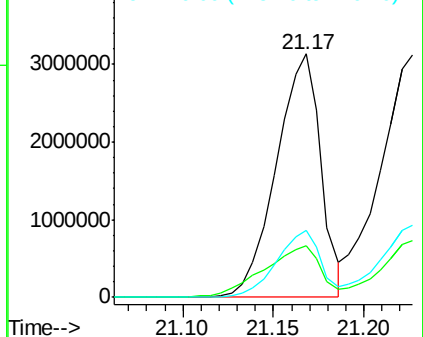
228 100

229 21.2 15.9 23.9

226 27.6 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: 2.41 ng/ul

RT: 21.07 min Scan# 3125

Delta R.T. 0.01 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

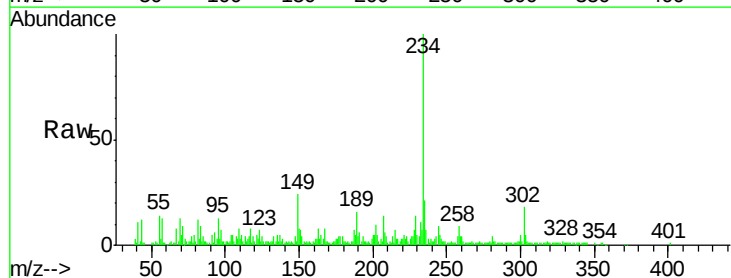
Tgt Ion:149 Resp: 21444

Ion Ratio Lower Upper

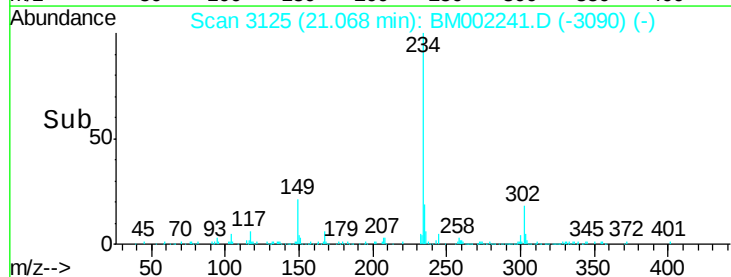
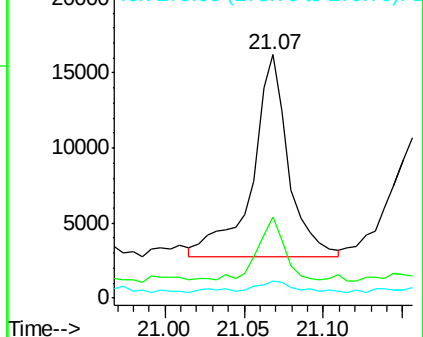
149 100

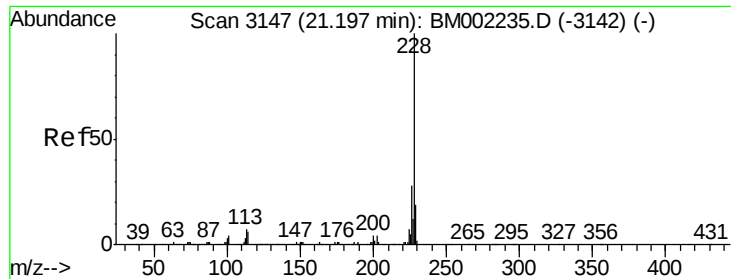
167 33.5 23.0 34.4

279 7.0 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

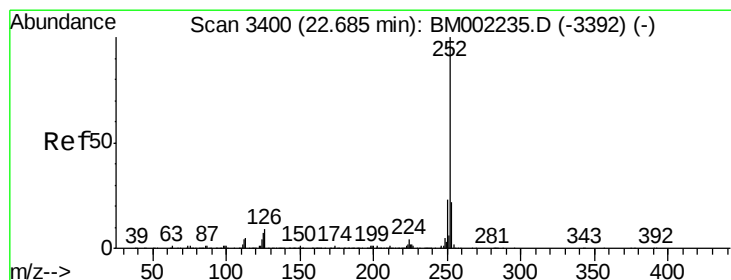
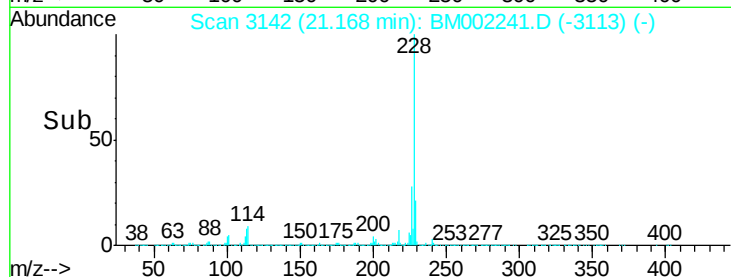
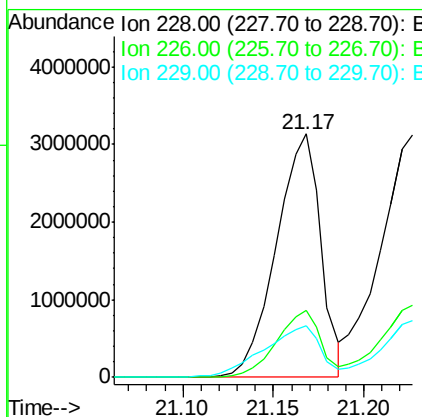
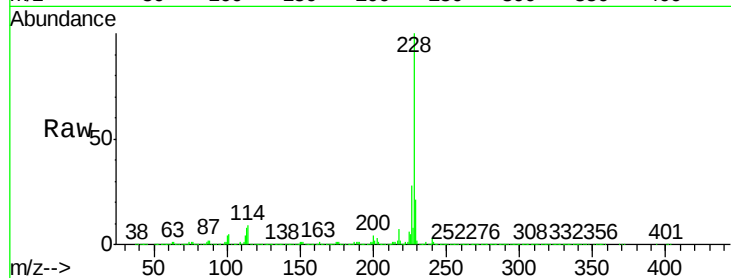




#85
 Chrysene
 Concen: 368.15 ng/ul
 RT: 21.17 min Scan# 3142
 Delta R.T. -0.03 min
 Lab File: BM002241.D
 Acq: 05 Aug 2015 20:22

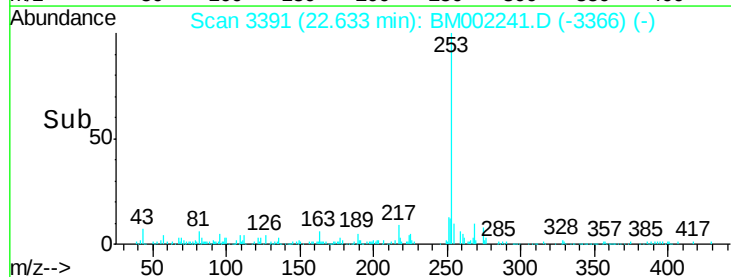
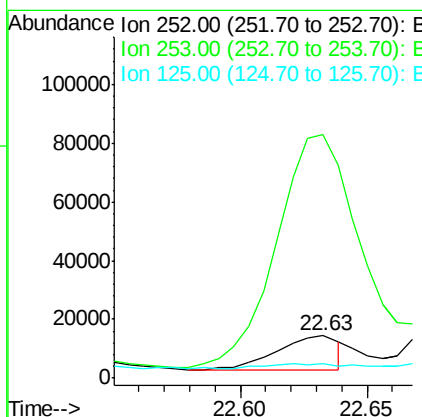
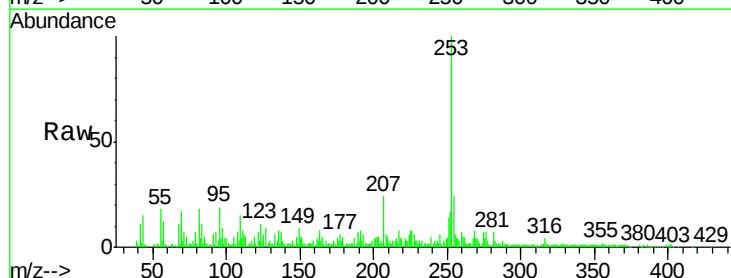
Instrument :
 BNA_M
 ClientSampleId :

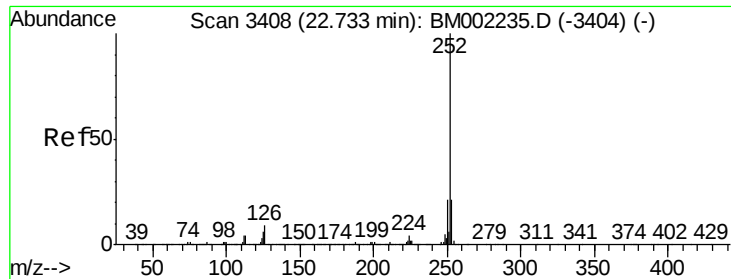
Tot Ion:228 Resp: 5352550
 Ion Ratio Lower Upper
 228 100
 226 27.6 22.2 33.4
 229 21.2 15.5 23.3



#88
 Benzo(b)fluoranthene
 Concen: 1.72 ng/ul
 RT: 22.63 min Scan# 3391
 Delta R.T. -0.05 min
 Lab File: BM002241.D
 Acq: 05 Aug 2015 20:22

Tgt Ion:252 Resp: 20333
 Ion Ratio Lower Upper
 252 100
 253 576.1 17.4 26.0#
 125 33.4 5.4 8.2#

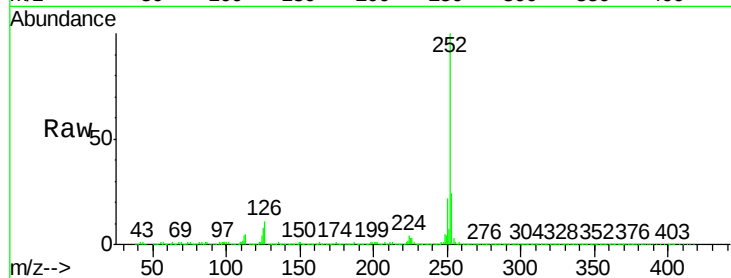




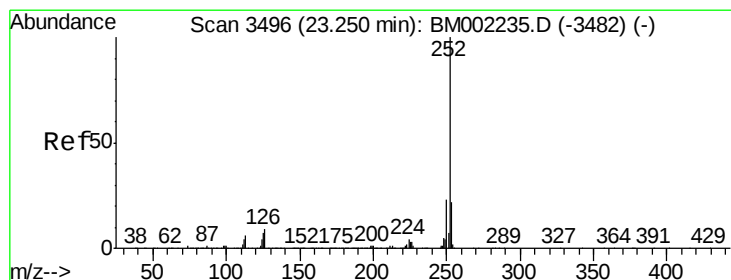
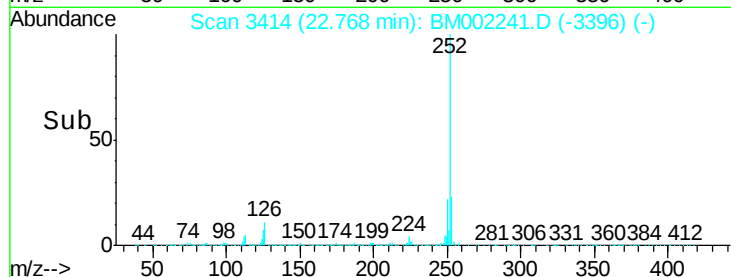
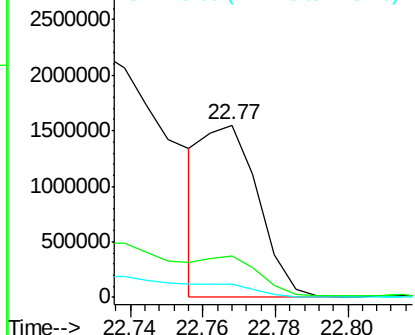
#89
Benzo(k)fluoranthene
Concen: 140.73 ng/ul
RT: 22.77 min Scan# 3414
Delta R.T. 0.04 min
Lab File: BM002241.D
Acq: 05 Aug 2015 20:22

Instrument :
BNA_M
ClientSampled :

Tot Ion:252 Resp: 1608904
Ion Ratio Lower Upper
252 100
253 23.8 17.4 26.2
125 7.5 5.6 8.4

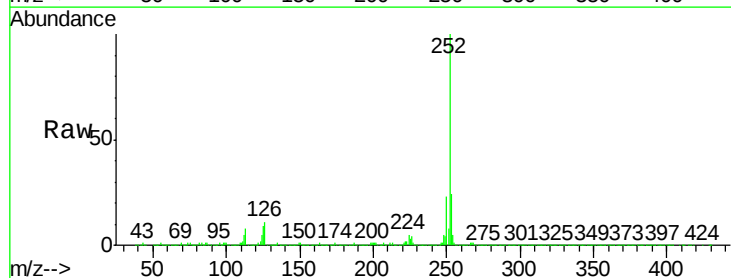


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

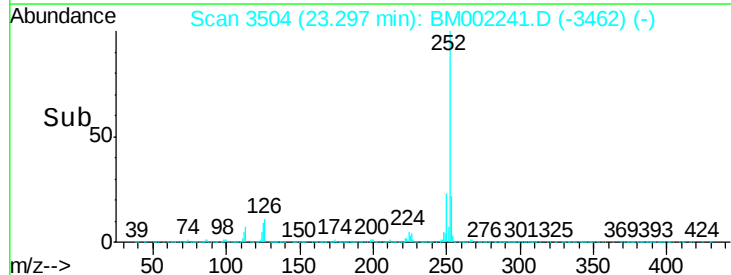
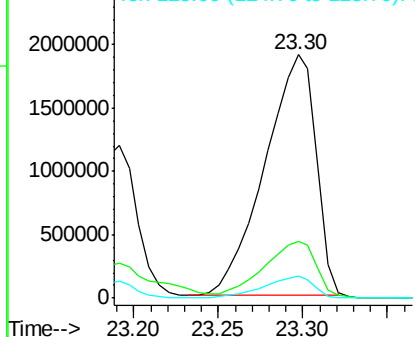


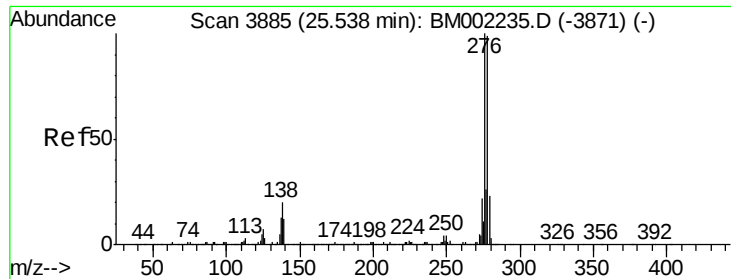
#91
Benzo(a)pyrene
Concen: 357.27 ng/ul
RT: 23.30 min Scan# 3504
Delta R.T. 0.05 min
Lab File: BM002241.D
Acq: 05 Aug 2015 20:22

Tgt Ion:252 Resp: 4028226
Ion Ratio Lower Upper
252 100
253 23.5 17.4 26.0
125 8.9 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: 3.64 ng/ul

RT: 25.41 min Scan# 3863

Delta R.T. -0.13 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

Instrument :

BNA_M

ClientSampleId :

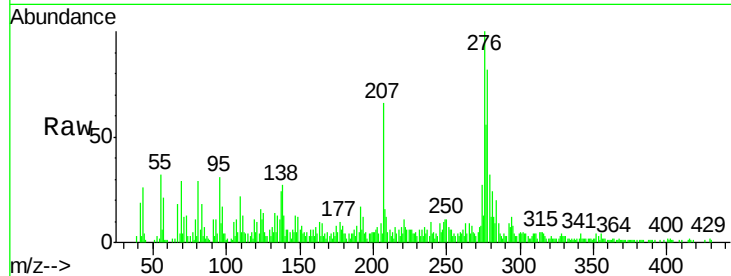
Tot Ion:276 Resp: 46200

Ion Ratio Lower Upper

276 100

138 26.8 15.4 23.0#

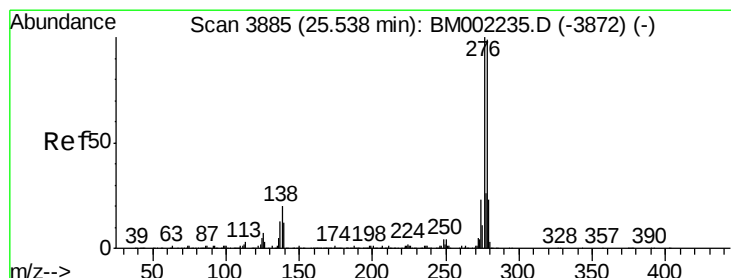
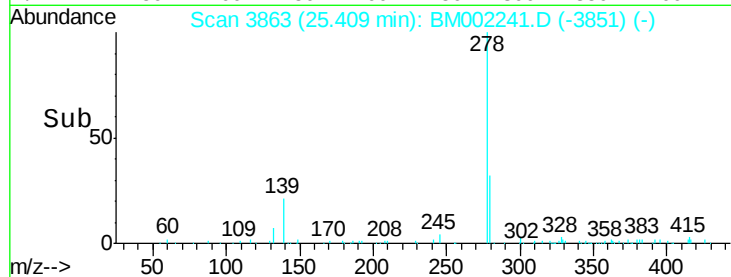
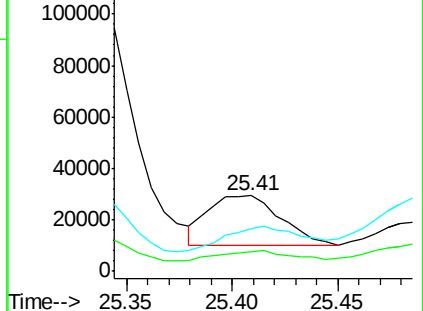
277 55.9 20.2 30.2#



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: 6.41 ng/ul

RT: 25.41 min Scan# 3864

Delta R.T. -0.12 min

Lab File: BM002241.D

Acq: 05 Aug 2015 20:22

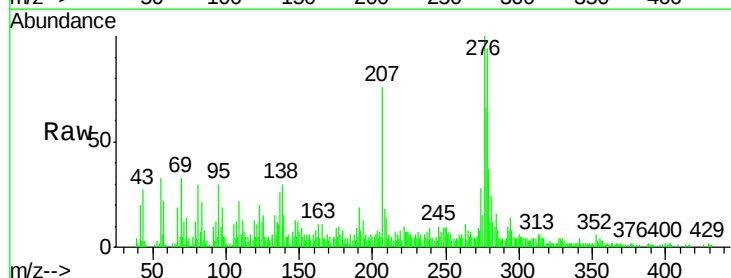
Tgt Ion:278 Resp: 69479

Ion Ratio Lower Upper

278 100

139 15.9 10.4 15.6#

279 39.1 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

